FARMINGTON MUNICIPAL SCHOOLS
PRESCHOOL ACADEMY EAST
CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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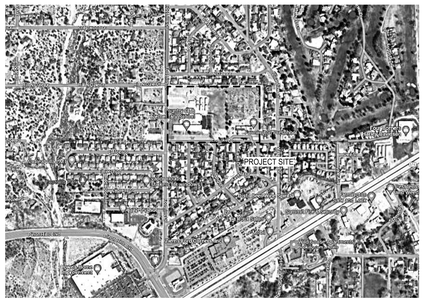
PROJECT ADDESS

5840 Fortuna Dr.
Farmington, New Mexico 87402
p_505.599.8625

PUBLIC SCHOOL FACILITIES AUTHORITY
Project #: K23-001



VICINITY MAP

5840 Fortuna Dr.
Farmington, NM 87402

BIM MODEL REQUIREMENTS

BIM MODEL SUBMITTAL & COORDINATION REQUIREMENTS

All requirements noted in individual specification sections for submittal of coordination drawings and shop drawings shall be strictly followed. Item or Equipment fabrications and installations that occur prior to the approval of these drawings shall be subject to removal and replacement at no additional cost to the owner.

In addition to the required drawings noted above, contractor shall prepare BIM (Building Information Model) for the systems noted below. The intent of this BIM model is to determine conflicts and coordinate solutions that will resolve final system installation. The contractor may use the overall BIM model to generate the coordination drawings and vice-versa.
1. HVAC
2. Plumbing
3. Electrical
4. Fire Protection
5. Special Systems
6. Structural

OWNER

FARMINGTON MUNICIPAL SCHOOLS
In Collaboration with the Public School Facilities Authority

CONSULTANTS

CIVIL
Miller Engineering Consultants
3500 Comanche Rd NE
Albuquerque, New Mexico 87107
p_505.888.7500

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p_505.823.1000

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p_602.273.0222

fbt | architects

MAIL: 6501 Americas Pkwy NE Ste. 300
Albuquerque, NM 87110
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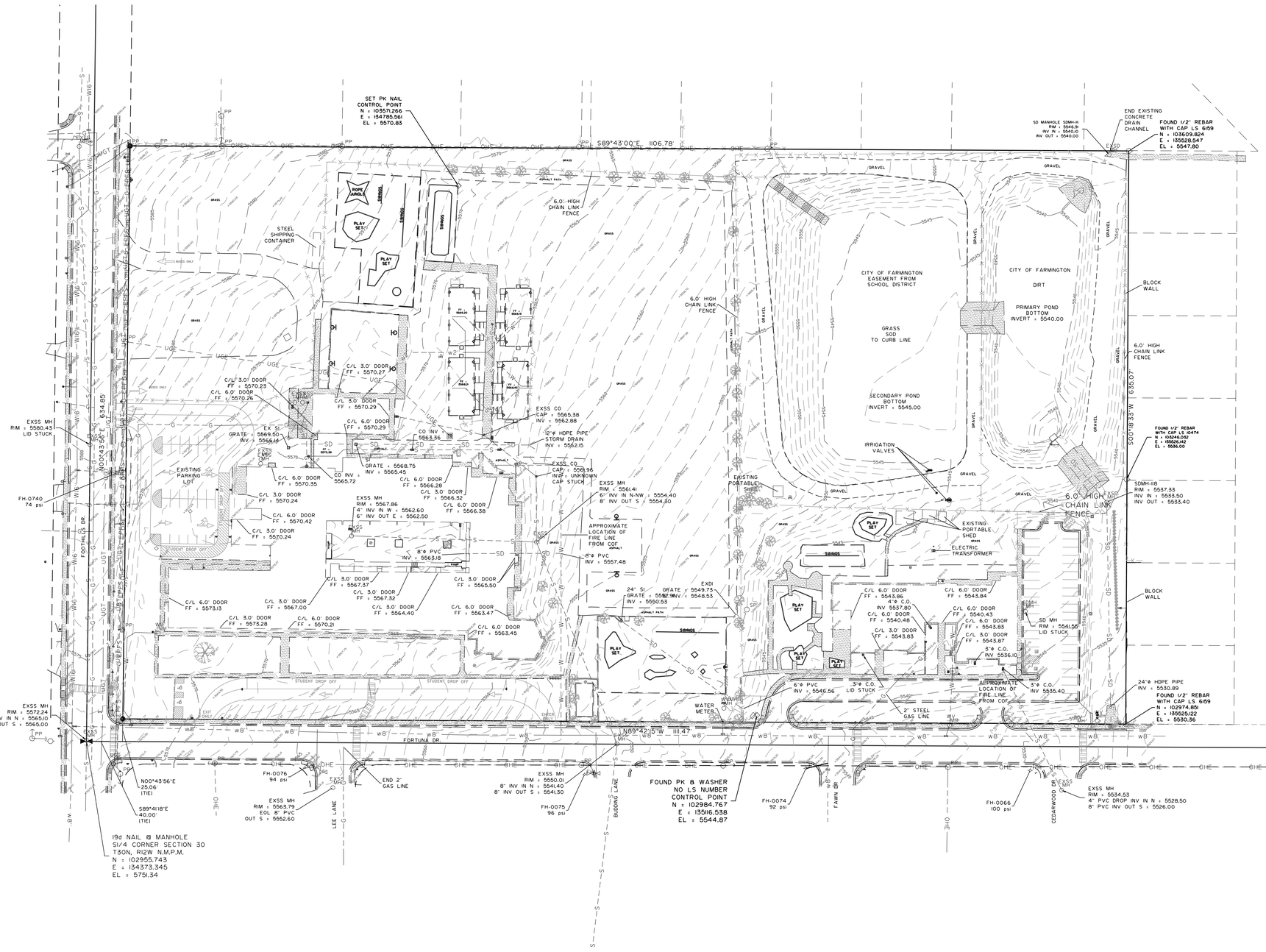
FAX: 505.884.5390
WEB: www.fbtarch.com

STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
STAMPED DRAWING

ARCHITECT

SET NO.

TOPOGRAPHIC SURVEY
OF
COUNTRY CLUB ELEMENTARY SCHOOL PROPERTY
LYING IN THE
SW1/4SE1/4 OF SECTION 30, T30N, R12W, N.M.P.M.
SAN JUAN COUNTY, FARMINGTON,
NEW MEXICO



LEGEND

- EXISTING WATER LINE SIZE UNKNOWN
- EXISTING 16"Ø WATER LINE
- EXISTING 2"Ø WATER LINE
- EXISTING 6"Ø WATER LINE
- EXISTING 8"Ø WATER LINE
- EXISTING FENCE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING EL PASO FIELD SERVICE GAS LINE
- EXISTING NEW MEXICO GAS CO. GAS LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING STORM DRAIN LINE
- EXISTING EDGE OF ROAD WAY
- EXISTING SANITARY SEWER
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING ELECTRIC SERVICE POLE
- EXISTING POWER POLE
- EXISTING POLE ANCHOR
- EXISTING WATER VALVE MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING GAS METER
- EXISTING FOUND REBAR
- EXISTING ROAD SIGN
- EXISTING ELECTRIC METER
- EXISTING UNDERGROUND ELECTRIC RISER BOX
- EXISTING ELECTRIC TRANSFORMER
- EXISTING STREET LIGHT
- EXISTING UNDERGROUND CABLE RISER BOX
- EXISTING SEWER CLEAN OUT
- EXISTING IRRIGATION VALVE/VAULT
- EXISTING YARD HOSE BIBB
- FOUND PK NAIL/WASHER NO NUMBER
- EXISTING UNDERGROUND TELEPHONE BOX
- EXISTING IRRIGATION VALVE
- FOUND 1/2" REBAR AS CALLED
- SET PK CONTROL NAIL

UTILITIES SHOWN ARE BASED ON LIMITED DATA. THERE IS NO GUARANTEE AS TO THEIR LOCATION OR SIZE. PLEASE CONTACT RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTACTS IN THIS AREA ARE:

ELECTRIC– CITY OF FARMINGTON
101 N. BROWNING PARKWAY
FARMINGTON, N.M. 87401
(505) 599–8411

PHONE– CENTURYLINK
(855) 225–0494

SEWER– OMI
1395 S. LAKE ST.
FARMINGTON, N.M. 87401
(505) 325–7027

GAS– NEW MEXICO GAS COMPANY
803 W. ELM
FARMINGTON, N.M. 87401
(888) 664–2726

WATER– OMI
615 S. CARLTON AVE.
FARMINGTON, N.M. 87401
(505) 326–1918

CABLE– XFINITY-COMCAST
460I E. MAIN STREET
FARMINGTON, N.M. 87402
1-800-934-6489

FLOOD DATA

By graphic plotting only, this property IS NOT in a Flood Zone according to the Flood Insurance Rate Map, Community No. 350450C0695F, Panel No. 695 of 2750, which bears an effective date of August 5, 2010 and is not in a Special Flood Hazard Area.
Via the world wide web, https://www.fema.gov/cis/NM.pdf, we have learned this community does currently participate in the program.
No field surveying was performed to determine this zone and an elevation certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency. The nearest Floodway is 1775'± to the west.

VERTICAL DATUM– CITY OF FARMINGTON GPS CONTROL NETWORK

BENCHMARK– CITY OF FARMINGTON GPS MONUMENT NO. 91
"FARMPORT", NAD '92 (HARN) FEET SCALED BY 0.999668240
= COMBINED FACTOR AT "FARMPORT"
THEN MODIFIED BY: 2,000,000.00 SUBTRACTED FROM THE NORTHING
THEN MODIFIED BY: 2,500,000.00 SUBTRACTED FROM THE EASTING
EQUALS MODIFIED LOCAL GROUND COORDINATES (FEET), NAVD '88
N: 89612.02
E: 110815.41
ELEV. 5500.82

THE BASIS OF BEARING FOR THIS SURVEY IS THE CITY OF FARMINGTON GPS CONTROL NETWORK. MONUMENTS USED ARE MON. 41, IN:97622.93, E:112886.971 AND MON. 91 "FARMPORT" (N: 89612.02, E: 110815.41)

DATE OF FIELD SURVEY: AUGUST 9, 2023.
ALL SURVEY DATA WAS OBTAINED BY GPS OBSERVATION.

NOTES:

1. THE NMGCO GAS LINE IN FOOTHILLS DR IS A 4"Ø STEEL WITH AN OPERATING PRESSURE OF 50 psig.
2. 2"Ø STEEL NMGCO GAS LINE FROM FAWN DRIVE TO THE EXISTING PRE-SCHOOL SITE.
3. CHENEY WALTER ECHOLS, INC. CONTACTED NEW MEXICO 811 ON SEPTEMBER 12, 2023 AND REQUESTED ALL UTILITIES BE MARKEDNESS THE PROJECT AREA. WE RECEIVED NOTICE INDICATING ALL UTILITY MARKING HAD BEEN COMPLETED. LINE SIZES, PRESSURES AND DEPTHS WERE NOT AVAILABLE.

WATERSHED:

1. STORM SURFACE FROM OFF-SITE ENTERS THE NORTHEAST CORNER OF THIS PROPERTY FROM AN EXISTING STORM SEWER. COLLECTION SYSTEM FROM THE NORTH AND A CONCRETE OPEN DRAINAGE CHANNEL FROM THE EAST. BOTH DIVERT RUNOFF TO THE CITY'S DETENTION POND. THIS WATERSHED ACTIVITY DOES NOT IMPACT THE EXISTING SCHOOL FACILITY AND/OR THE PROPOSED EXPANSION.

TREES:

TREES AS REQUESTED ARE SHOWN BUT THE TYPE ARE NOT IDENTIFIED.

SOIL CONTAMINATION:

CHENEY WALTERS ECHOLS, INC. HAS NO KNOWLEDGE OF SUSPECTED AND/OR CONFIRMING SOIL CONTAMINATIONS.

WATER LINES:

1. DEPTH OF WATER LINES ARE ASSUMED TO BE 42" COVER OVER TOP OF PIPE.
2. FIRE HYDRANTS ARE 6" HYDRANTS WITH 6" PVC WATER LINE AND 6" GATE VALVES IN VALVE BOXES.

50 25 0 50 100 150
SCALE: 1" = 50'

CHENEY·WALTERS·ECHOLS INC.
ENGINEERS ▲ SURVEYORS
909 W. APACHE • FARMINGTON, NEW MEXICO 87401 • (505)327-3303

ISSUE DATE: 09/25/2023
PRINTED: September 27, 2023
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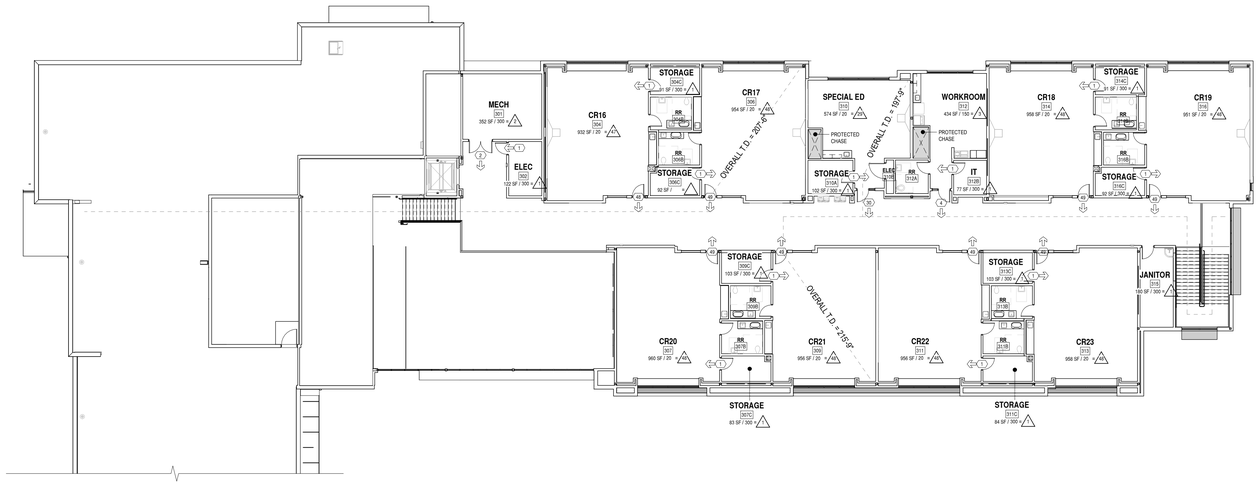
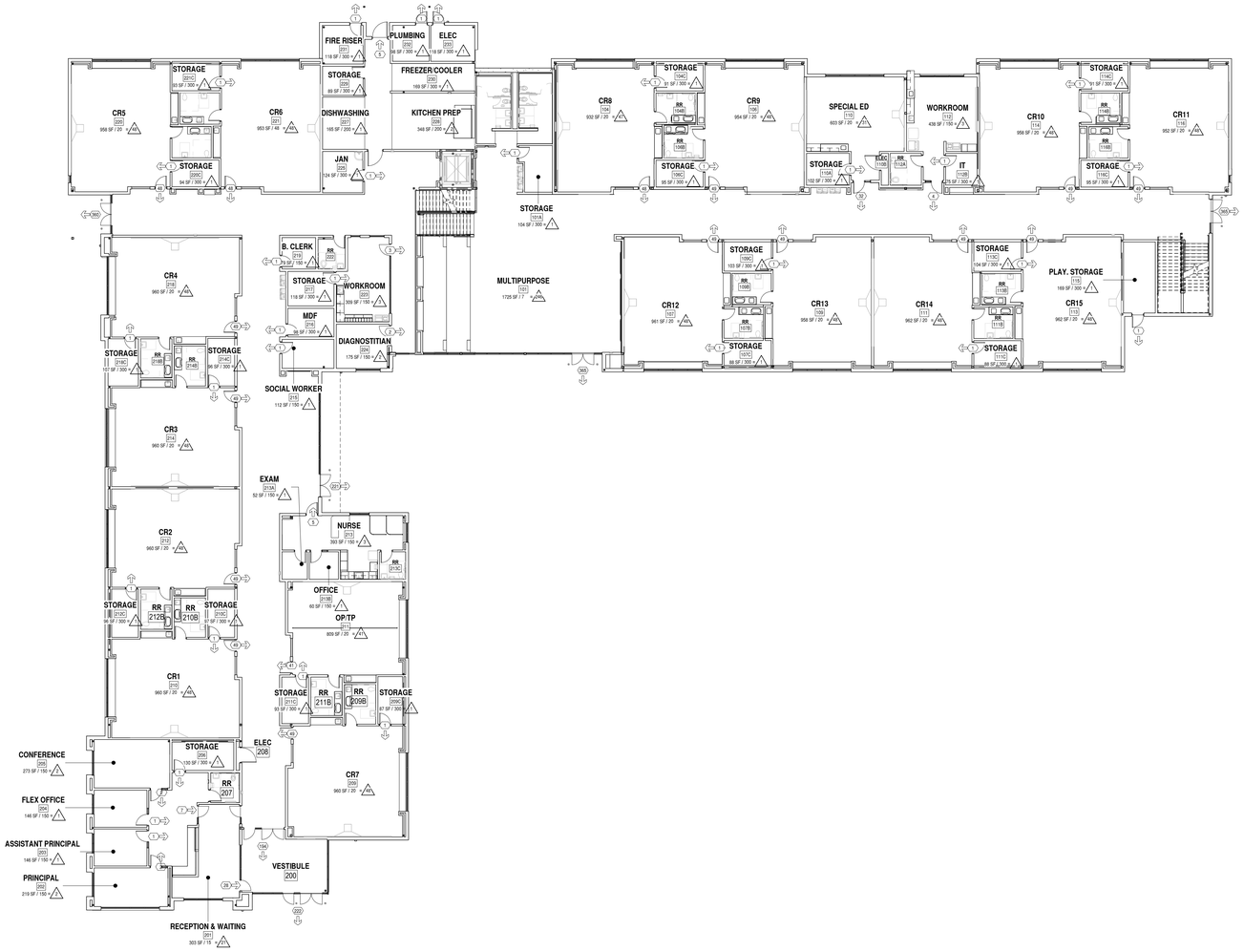


D1 CODE ANALYSIS - UPPER LEVEL
1/16" = 1'-0"



A1 CODE ANALYSIS - GROUND & LOWER LEVEL
1/16" = 1'-0"

CODE ANALYSIS

REFERENCES
2021 INTERNATIONAL BUILDING CODE (2021 IBC)
2021 INTERNATIONAL MECHANICAL CODE (2021 IMC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2020 INTERNATIONAL ELECTRICAL CODE (NEC)
2021 UNIFORM PLUMBING CODE (UPC)
2021 INTERNATIONAL FIRE CODE (IFC)
2017 ICC/ANSI A117.1 ACCESSIBILITY STANDARDS

ADDRESS
5840 FORTUNA DR, FARMINGTON
ALBUQUERQUE, NM 87402

OCCUPANCY CLASSIFICATION — 2021 IBC SECTION 305.1
IBC 305.1: OCCUPANCY GROUP E - EDUCATION

OCCUPANCY SEPARATION — 2021 IBC SECTION 508.4
NON-REQUIRED

TOTAL BUILDING AREAS (GROSS)
51,900 GSF

CONSTRUCTION TYPE — 2021 IBC - CHAPTER 6
NEW CONSTRUCTION: TYPE IIB

ALLOWABLE AREA: — 2021 IBC - TABLE 506.2
E - OCCUPANCY ALLOWABLE: 58,000 S1 / 43,500 SM / 14,500 NS

EQUATION 5-1
A_a = [A_t + (NS x I_f)]
= [43,500 + (14,500 x 0.75)]
= 43,500 + 10,875
=54,375 SF PER FLOOR

EQUATION 5-2:
A_a = [A_t + (NS x I_f)] x S_a
= [43,500 + (14,500 x 0.75)] x 2
= 43,500 + 10,875
= 108,750 SF TOTAL

LOCATION ON PROPERTY
REFERENCE SITE PLAN

ALLOWABLE BUILDING HEIGHT — 2021 IBC - TABLE 504.3
ALLOWABLE: 75 FT ACTUAL: 38' FT

NUMBER OF STORIES — 2021 IBC - TABLE 504.4
ALLOWABLE: 3 ACTUAL: 2

FIRE RATED CONSTRUCTION — 2021 IBC - TABLE 601
CONSTRUCTION TYPE IIB:
STRUCTURAL FRAME = 0 hr
BEARING WALLS = 0 hr
NON BEARING WALLS = 0 hr
FLOOR CONSTRUCTION = 0 hr
ROOF CONSTRUCTION = 0 hr

SHAFT ENCLOSURES — 2021 IBC - SECTION 713
ELEVATOR SHAFT - 1 HOUR

DUCTS AND AIR TRANSFER OPENING — 2021 IBC - SECTION 717.6.3
CHASES THAT CONTAIN DUCT SYSTEMS PENETRAINING NONFIRE-RESISTANCE-RATED FLOOR ASSEMBLY TO BE PROTECTED.
PROTECT ANNULAR SPACE ROUND DUCT WITH APPROVED NONCOMBUSTIBLE MATERIAL THAT RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.
SEE PLAN FOR LOCATIONS.

FIRE SPRINKLER SYSTEM — 2021 IBC - SECTION 903.2.3
NEW CONSTRUCTION EQUIPPED THROUGHUT (NFPA 13)

FIRE ALARM SYSTEM — 2021 IBC - SECTION 907
PROVIDED WITH A VOICE EVACUATION SYSTEM.

FIRE EXTINGUISHERS (FE) — 2021 IBC - CHAPTER 9
E OCCUPANCY
MINIMUM RATED EXTINGUISHER: 2-A
MAXIMUM FLOOR AREA PER UNIT OF A: 3,000 SF
MAXIMUM ALLOWABLE DISTANCE BETWEEN: 75 LF
NUMBER REQUIRED: 18
NUMBER PROVIDED: 19

EXIT ACCESS TRAVEL DISTANCE — 2021 IBC - TABLE 1006.2.1 & 1017.2
MAXIMUM LENGTH OF EXIT ACCESS TRAVEL: 250 FT (SPRINKLER)
MAXIMUM LENGTH OF COMMON PATH OF TRAVEL: 75 FT (SPRINKLER)
SEE PLAN ON G-001 FOR ACTUAL TRAVEL DISTANCES

DEAD END CORRIDOR — 2021 IBC - SECTION 1020.4
50 FT. MAXIMUM FOR E OCCUPANCY (SPRINKLERED)

CORRIDOR FIRE RESISTANCE RATING — 2021 IBC - SECTION 1020.4
CORRIDOR FIRE RATING WITH SPRINKLER= NONE

EXITING REQUIREMENTS — 2021 IBC - CHAPTER 10
REQUIRED EXIT WIDTH (CORRIDORS) - SECTION 1005.3.2
(OCC. LOAD) x (0.2) = CORRIDOR WIDTH IN INCHES

REQUIRED EXIT WIDTH (DOORS) - SECTION 1005.3.2
(OCC. LOAD) x (0.2) = DOOR WIDTH IN INCHES

(1,541) x (0.2) = DOOR WIDTH IN INCHES

E OCCUPANT LOAD: 1,540 OCCUPANTS
EXIT DOORS: (1,540 x 0.2") = 308" REQUIRED.
= 396" PROVIDED.

SEE PLANS FOR EXIT WIDTHS

PLUMBING FITURE REQUIREMENTS — 2021 IBC - CHAPTER 29
'E' PLUMBING FIXTURE REQUIREMENTS
1 per 50 = MEN WATER CLOSET (WC)
1 per 50 = WOMENS WATER CLOSET (WC)
1 per 50 = LAVATORY (LAV)
1 per 100 = DRINKING FOUNTAIN
1 Service Sink

SEE MINIMUM PLUMBING FACILITIES TABLE SHEET G-002 FOR CALCULATIONS

ENERGY ANALYSIS — 2018 IECC - 402.1.3

CLIMATE ZONE:	5B	(SAN JUAN COUNTY)
ROOF INSULATION:	R-30 CI	(INSULATION ABOVE ROOF DECK)
WALL INSULATION:	R-13+10CI	(METAL FRAMED WALLS)
SLAB ON GRADE:	R-15 FOR 24" BELOW GRADE	(UNHEATED SLAB)

CODE SYMBOL LEGEND

AREA OCCUPANT LOAD
FE — SEMI RECESSED FIRE EXTINGUISHER CABINET
EXIT TRAVEL DISTANCE
EXIT OCCUPANT LOAD (ARROW INDICATES DIRECTION TO EXIT)

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
STAMPED DOCUMENT
ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE
BUILDING CODE ANALYSIS

G-003

Farmington Preschool Academy

OCCUPANCY SCHEDULE

Number	Name	Classification	Area	Occupancy Load Tag
101	MULTIPURPOSE	Assembly without fixed seats (Concentrated (chairs only-not fixed))	1725 SF	246
101A	STORAGE	Accessory storage areas, mechanical equipment room	104 SF	1
102	M	(none)	157 SF	
103	W	(none)	174 SF	
104	CR8	Educational (Classroom area)	932 SF	47
104B	RR	(none)	92 SF	
104C	STORAGE	Accessory storage areas, mechanical equipment room	91 SF	1
106	CR9	Educational (Classroom area)	954 SF	48
106B	RR	(none)	92 SF	
106C	STORAGE	Accessory storage areas, mechanical equipment room	95 SF	1
107	CR12	Educational (Classroom area)	961 SF	48
107B	RR	(none)	92 SF	
107C	STORAGE	Accessory storage areas, mechanical equipment room	88 SF	1
109	CR13	Educational (Classroom area)	958 SF	48
109B	RR	(none)	92 SF	
109C	STORAGE	Accessory storage areas, mechanical equipment room	103 SF	1
110	SPECIAL ED	Educational (Classroom area)	603 SF	31
110A	STORAGE	Accessory storage areas, mechanical equipment room	102 SF	1
110B	ELEC	(none)	17 SF	
111	CR14	Educational (Classroom area)	962 SF	48
111B	RR	(none)	92 SF	
111C	STORAGE	Accessory storage areas, mechanical equipment room	88 SF	1
112	WORKROOM	Business areas	438 SF	3
112A	RR	(none)	74 SF	
112B	IT	Accessory storage areas, mechanical equipment room	75 SF	1
113	CR15	Educational (Classroom area)	962 SF	48
113B	RR	(none)	93 SF	
113C	STORAGE	Accessory storage areas, mechanical equipment room	104 SF	1
114	CR10	Educational (Classroom area)	958 SF	48
114B	RR	(none)	91 SF	
114C	STORAGE	Accessory storage areas, mechanical equipment room	91 SF	1
115	PLAY. STORAGE	Accessory storage areas, mechanical equipment room	169 SF	1
116	CR11	Educational (Classroom area)	952 SF	48
116B	RR	(none)	92 SF	
116C	STORAGE	Accessory storage areas, mechanical equipment room	95 SF	1
200	VESTIBULE	(none)	368 SF	
201	RECEPTION & WAITING	Assembly without fixed seats (Concentrated (chairs only-not fixed))	303 SF	21
202	PRINCIPAL	Business areas	219 SF	2
203	ASSISTANT PRINCIPAL	Business areas	146 SF	1
204	FLEX OFFICE	Business areas	146 SF	1
205	CONFERENCE	Business areas	273 SF	2
206	STORAGE	Accessory storage areas, mechanical equipment room	130 SF	1
207	RR	(none)	64 SF	
208	ELEC	Accessory storage areas, mechanical equipment room	8 SF	1
209	CR7	Educational (Classroom area)	960 SF	48
209B	RR	(none)	93 SF	
209C	STORAGE	Accessory storage areas, mechanical equipment room	87 SF	1
210	CR1	Educational (Classroom area)	960 SF	48
210B	RR	(none)	92 SF	
210C	STORAGE	Accessory storage areas, mechanical equipment room	97 SF	1
211	OP/TP	Educational (Classroom area)	809 SF	41
211B	RR	(none)	90 SF	
211C	STORAGE	Accessory storage areas, mechanical equipment room	93 SF	1
212	CR2	Educational (Classroom area)	960 SF	48
212B	RR	(none)	94 SF	
212C	STORAGE	Accessory storage areas, mechanical equipment room	96 SF	1
213	NURSE	Business areas	393 SF	3
213A	EXAM	Business areas	52 SF	1
213B	OFFICE	Business areas	60 SF	1
213C	RR	(none)	54 SF	
214	CR3	Educational (Classroom area)	960 SF	48
214B	RR	(none)	94 SF	
214C	STORAGE	Accessory storage areas, mechanical equipment room	96 SF	1
215	SOCIAL WORKER	Business areas	112 SF	1
216	MDF	Accessory storage areas, mechanical equipment room	98 SF	1
217	STORAGE	Accessory storage areas, mechanical equipment room	118 SF	1
218	CR4	Educational (Classroom area)	960 SF	48
218B	RR	(none)	92 SF	
218C	STORAGE	Accessory storage areas, mechanical equipment room	107 SF	1
219	B. CLERK	Business areas	79 SF	1
220	CR5	Educational (Classroom area)	958 SF	48
220B	RR	(none)	92 SF	
220C	STORAGE	Accessory storage areas, mechanical equipment room	94 SF	1
221	CR6	Educational (Classroom area)	553 SF	48
221B	RR	(none)	93 SF	
221C	STORAGE	Accessory storage areas, mechanical equipment room	93 SF	1
222	RR	(none)	62 SF	
223	WORKROOM	Business areas	309 SF	3
224	DIAGNOSTITIAN	Business areas	175 SF	2
225	JAN	Accessory storage areas, mechanical equipment room	124 SF	1
227	DISHWASHING	Kitchens, commercial	165 SF	1
228	KITCHEN PREP	Kitchens, commercial	348 SF	2
229	STORAGE	Accessory storage areas, mechanical equipment room	89 SF	1
230	FREEZER/COOLER	Accessory storage areas, mechanical equipment room	169 SF	1
231	FIRE RISER	Accessory storage areas, mechanical equipment room	118 SF	1
232	PLUMBING	Accessory storage areas, mechanical equipment room	98 SF	1
233	ELEC	Accessory storage areas, mechanical equipment room	118 SF	1
301	MECH	Accessory storage areas, mechanical equipment room	352 SF	2
302	ELEC	Accessory storage areas, mechanical equipment room	122 SF	1
304	CR16	Educational (Classroom area)	932 SF	47
304B	RR	(none)	92 SF	
304C	STORAGE	Accessory storage areas, mechanical equipment room	91 SF	1
306	CR17	Educational (Classroom area)	954 SF	48
306B	RR	(none)	92 SF	
306C	STORAGE	Accessory storage areas, mechanical equipment room	92 SF	
307	CR20	Educational (Classroom area)	960 SF	48
307B	RR	(none)	92 SF	
307C	STORAGE	Accessory storage areas, mechanical equipment room	83 SF	1
309	CR21	Educational (Classroom area)	956 SF	48
309B	RR	(none)	91 SF	
309C	STORAGE	Accessory storage areas, mechanical equipment room	103 SF	1
310	SPECIAL ED	Educational (Classroom area)	574 SF	29
310A	STORAGE	Accessory storage areas, mechanical equipment room	102 SF	1
310B	ELEC	(none)	17 SF	
311	CR22	Educational (Classroom area)	956 SF	48
311B	RR	(none)	92 SF	
311C	STORAGE	Accessory storage areas, mechanical equipment room	84 SF	1
312	WORKROOM	Business areas	434 SF	3
312A	RR	(none)	75 SF	
312B	IT	Accessory storage areas, mechanical equipment room	77 SF	1
313	CR23	Educational (Classroom area)	958 SF	48
313B	RR	(none)	92 SF	
313C	STORAGE	Accessory storage areas, mechanical equipment room	103 SF	1
314	CR18	Educational (Classroom area)	958 SF	48
314B	RR	(none)	92 SF	
314C	STORAGE	Accessory storage areas, mechanical equipment room	91 SF	1
315	JANITOR	Accessory storage areas, mechanical equipment room	180 SF	1
316	CR19	Educational (Classroom area)	951 SF	48
316B	RR	(none)	92 SF	
316C	STORAGE	Accessory storage areas, mechanical equipment room	92 SF	1
403	PENTHOUSE 3	(none)	1388 SF	
405	PENTHOUSE 1	(none)	707 SF	
406	PENTHOUSE 2	(none)	852 SF	
Grand total				1540

MINIMUM PLUMBING FIXTURES TOTAL

MINIMUM FIXTURE REQUIREMENTS	'E' OCCUPANCY		CUMULATIVE REQUIREMENTS		CUMULATIVE PROVIDED		
TOTAL:	1,540 OCC.						
MALE OCCUPANT LOAD	**770**		**MALE**		**MALE**		
WC + Urinals	1/50	15.4	WC + UR	16	WC + UR	2 Dedicated Fixtures	
						15 Single-user Fixtures	(2 Adult / 13 Child)
Lavatories	1/50	15.4	LAV	16	LAV	2 Dedicated Fixtures	
						15 Single-user Fixtures	(2 Adult / 13 Child)

FEMALE OCCUPANT LOAD	770		FEMALE		FEMALE		
WC + Urinals	1/50	15.4	WC	16	WC	2 Dedicated Fixtures	
						15 Single-user Fixtures	(2 Adult / 13 Child)
Lavatories	1/50	15.4	LAV	16	LAV	2 Dedicated Fixtures	
						15 Single-user Fixtures	(2 Adult / 13 Child)

DRINKING FOUNTAINS OCC. LOAD	1,540					
	1/100	15.71	DF	16	DF	16

29 SINGLE-USER RESTROOMS
25 CHILD RESTROOMS
4 ADULT RESTROOMS

4 SHARED RESTROOMS

33 RESTROOMS TOTAL

PLUMBING FITURE REQUIREMENTS

2021 IBC - CHAPTER 29

'E' PLUMBING FIXTURE REQUIREMENTS
1 per 50 = MEN WATER CLOSET (WC)
1 per 50 = WOMENS WATER CLOSET (WC)
1 per 50 = LAVATORY (LAV)
1 per 100 = DRINKING FOUNTAIN
1 Service Sink

SINGLE-USER TOILET AND BATHING ROOM FIXTURES **2021 IBC - SECTION 2902.1.2**
Single-user toilet facility and bathing room fixtures. The plumbing fixtures located in single-user toilet and bathing rooms, including family or assisted-use toilet and bathing rooms that are required by Section 1110.2.1, **shall contribute toward the total number of required plumbing fixtures for a building or tenant space.** The total number of fixtures shall be permitted to be based on the required number of separate facilities or based on the aggregate of any combination of single-user or separate facilities.

PSFA ANALYSIS

STUDENT OCCUPANCY FACTOR - PRESCHOOL FACILITY

20 STUDENTS MAX. / PER CLASSROOM
20 STUDENTS / CLASSROOM x 23 CLASSROOMS = **460 STUDENTS TOTAL**

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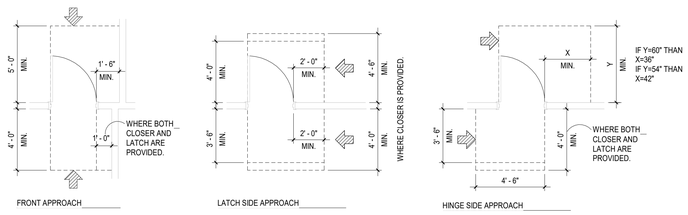
SHEET TITLE

BUILDING CODE ANALYSIS

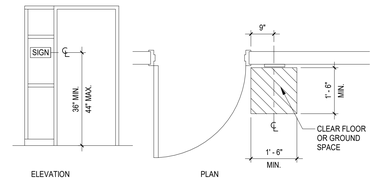
G-004

Farmington Preschool Academy

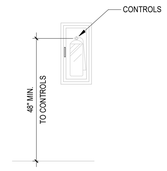


NOTE
ALL DIMENSIONS ARE FROM FINISHED FACE
ARROW INDICATES DIRECTION OF APPROACH

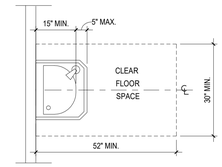
D1 DOOR CLEARANCES
1/4" = 1'-0"



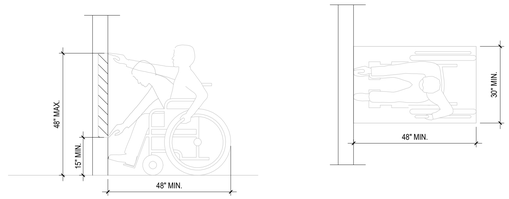
D2 CHILD SIGNAGE
1/2" = 1'-0"



D3 FIRE EXTINGUISHER
1/2" = 1'-0"



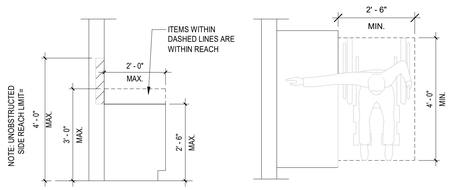
D6 DRINKING FOUNTAIN FLOOR CLEARANCE
1/2" = 1'-0"



SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE

PLAN
ALL DIMENSIONS ARE FROM FINISHED FACE

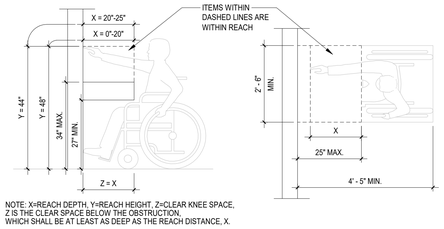
C1 UNOBSTRUCTD FORWARD REACH - CHILD
1/2" = 1'-0"



SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE

PLAN
ALL DIMENSIONS ARE FROM FINISHED FACE

C2 CHILD SIDE REACH
1/2" = 1'-0"

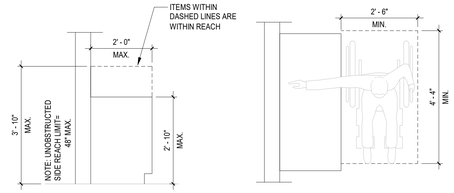


NOTE: X=REACH DEPTH, Y=REACH HEIGHT, Z=CLEAR KNEE SPACE, Z IS THE CLEAR SPACE BELOW THE OBSTRUCTION, WHICH SHALL BE AT LEAST AS DEEP AS THE REACH DISTANCE, X.

SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE

PLAN
ALL DIMENSIONS ARE FROM FINISHED FACE

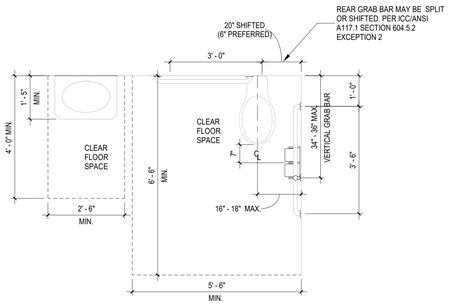
C3 ADULT FORWARD REACH
1/2" = 1'-0"



SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE

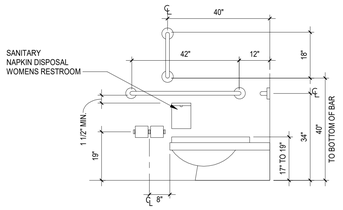
PLAN
ALL DIMENSIONS ARE FROM FINISHED FACE

C4 ADULT SIDE REACH
1/2" = 1'-0"



NOTE
ALL DIMENSIONS ARE FROM FINISHED FACE

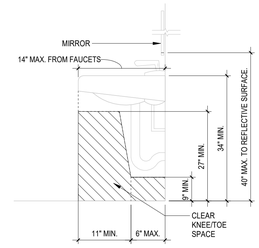
B1 ADULT RESTROOM
1/2" = 1'-0"



FLOOR-MOUNTED WATER CLOSET

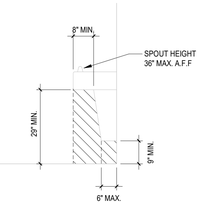
SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE

B2 ADULT WC ELEVATION
1/2" = 1'-0"



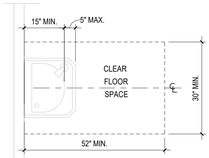
SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE.

B3 ADULT SINK
1/2" = 1'-0"

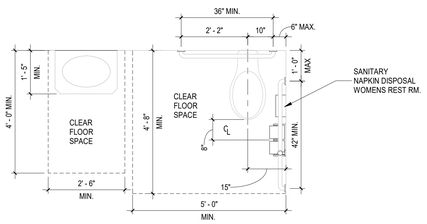


SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE
SPOUT AND CONTROLS SHALL BE LOCATED AT FRONT.
CONTROLS SHALL BE PUSH BAR, ELECTRONIC TYPE & HAND OPERABLE

B4 ADULT DF
1/2" = 1'-0"

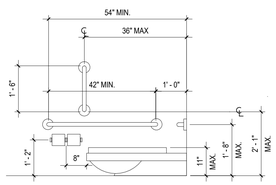


B5 DF CLEARANCE
1/2" = 1'-0"



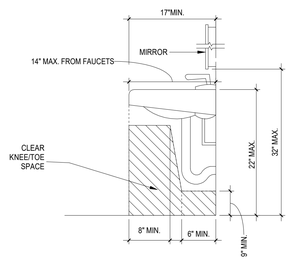
NOTE
ALL DIMENSIONS ARE FROM FINISHED FACE

A1 CHILD RESTROOM
1/2" = 1'-0"



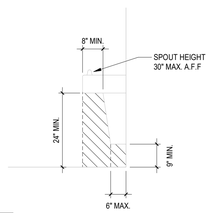
NOTE
ALL DIMENSIONS ARE FROM FINISHED FACE

A2 CHILD WC ELEVATION
1/2" = 1'-0"



SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE.

A4 CHILD SINK
1/2" = 1'-0"



SECTION
ALL DIMENSIONS ARE FROM FINISHED FACE
SPOUT AND CONTROLS SHALL BE LOCATED AT FRONT.
CONTROLS SHALL BE PUSH BAR, ELECTRONIC TYPE & HAND OPERABLE

A5 CHILD DF
1/2" = 1'-0"

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ARCHITECT

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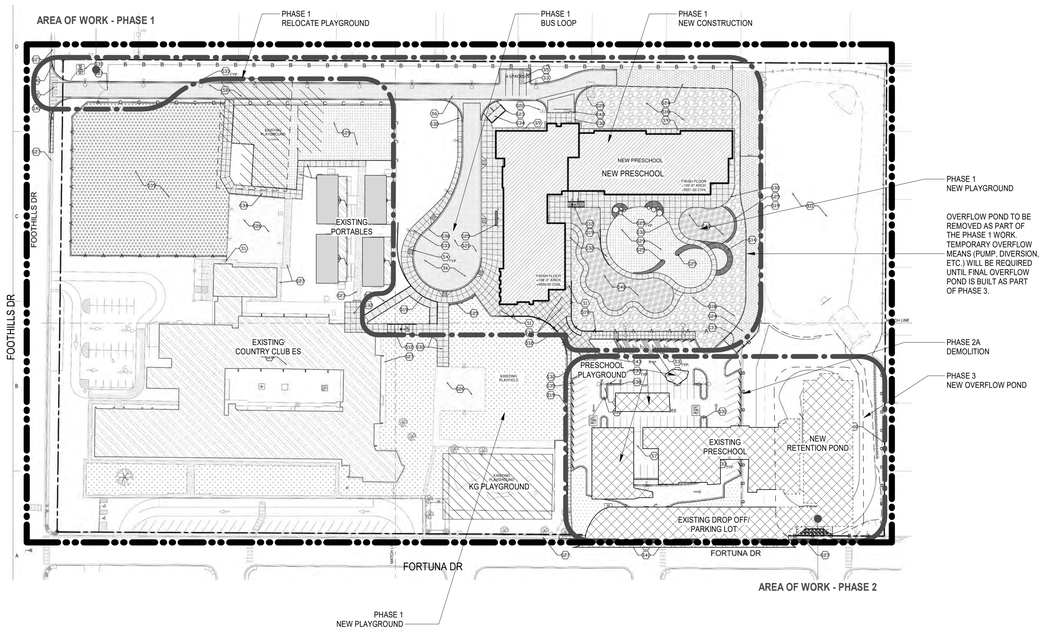
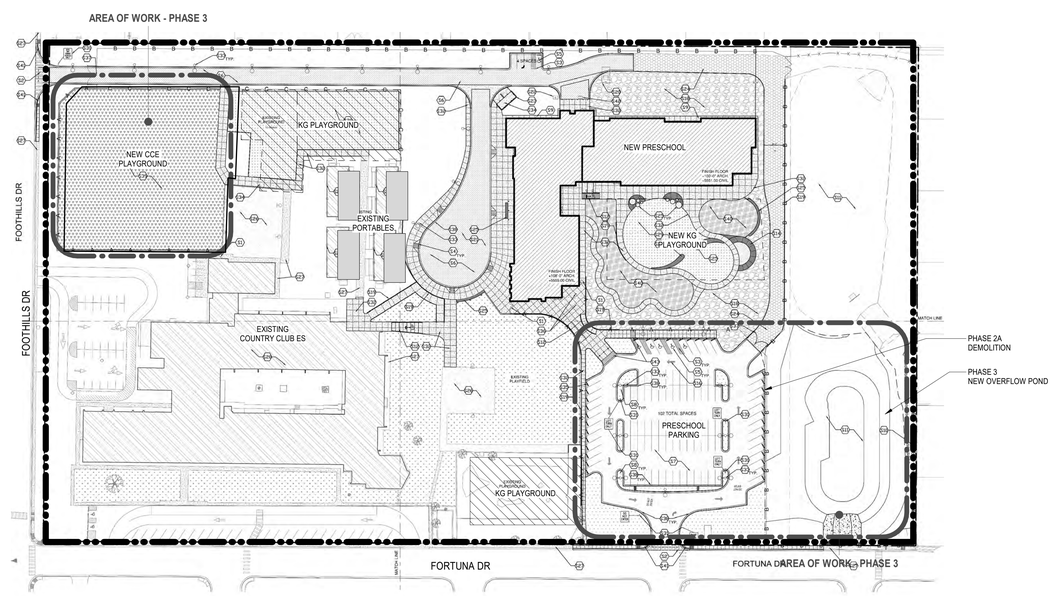
SHEET TITLE
ACCESSIBILITY GUIDELINES

G-005

Farmington Preschool Academy



C1 PHASE 1 - NEW BUILDING / PHASE 2 - DEMOLITION
1" = 80'-0"



C3 PHASE 3 - NEW PARKING LOT / NEW PLAYGROUND
1" = 80'-0"

PHASE 1
- MISCELLANEOUS SITE CLEANUP.
- OVERALL SITE GRADING, OVER EXCAVATION FOR NEW BUILDING & UNDERGROUND UTILITIES.
- RELOCATE PLAYGROUND SET.
- NEW SCHOOL BUILDING FOUNDATION.

PHASE 2
- DEMOLITION OF EXISTING PRESCHOOL BUILDING, PARKING LOT & PLAYGROUNDS.
- EXCAVATION FOR NEW RETENTION POND.

PHASE 3
- SITE CONCRETE, ASPHALT PAVING & LANDSCAPING.
- NEW PARKING LOT.
- NEW PLAYGROUND FOR PRESCHOOL AND KINDERGARTEN.

GENERAL NOTES

A. CONTRACTOR SHALL CONFORM TO THE CONSTRUCTION PHASING SEQUENCE.

B. CONTRACTOR SHALL ACCOUNT FOR ALL ASSOCIATED MOBILIZATION, GENERAL CONDITIONS, AND STAGING COSTS TO PERFORM TIMELY COMPLETION OF EACH PHASE.

C. CONTRACTOR SHALL COORDINATE ALL SITE RELATED IMPROVEMENTS SUCH AS GRADING, DRAINAGE, UTILITIES, ETC. TO ACCOMMODATE PHASING. REFERENCE CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.

D. DEMOLITION SHALL BE EXECUTED CAREFULLY. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MINIMIZE INTERFERENCE TO ADJACENT SCHOOLS FUNCTIONS AND PROTECT USERS THEREIN AS WELL AS THEIR PLAYGROUND AREAS.

E. SALVAGE ITEMS: PRIOR TO CONSTRUCTION, OWNER WILL REMOVE ALL ITEMS TO BE SALVAGED. THIS INCLUDES ALL EQUIPMENT, FURNITURE, MECHANICAL, ELECTRICAL AND SPECIAL SYSTEMS ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY ITEMS REMAINING UNLESS NOTED OTHERWISE.

F. CONTRACTOR SHALL COORDINATE ALL ASSOCIATED PLUMBING, MECHANICAL AND ELECTRICAL DEMOLITION FOR THIS PROJECT. SEE PLUMBING / MECHANICAL / ELECTRICAL DEMOLITION DRAWING FOR DEMOLITION WORK ASSOCIATED WITH THEIR RESPECTIVE DISCIPLINES.

G. THIS DRAWING INDICATED THE INTENT OF DEMOLITION AT EXISTING BUILDING. NO ATTEMPT HAS BEEN MADE TO SHOW EACH AND EVERY SURFACE, ELEVATION, DETAIL, ETC. THE CONTRACTOR IS ADVISED TO VISIT THE JOB SITE TO BECOME FAMILIAR WITH THE SCOPE OF WORK FOR PHASING PURPOSES. COORDINATE ALL QUESTIONS WITH THE ARCHITECT PRIOR TO PRE-DEMOLITION.

H. THE CONTRACTOR SHALL CAREFULLY EXECUTE DEMOLITION / REMOVAL WORK IDENTIFIED HEREIN AND PERFORM ALL DEMOLITION IN THE SHORTEST TIME POSSIBLE. ITEMS SHALL BE REUSE OR REMOVED AS NOTED. DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE IMMEDIATELY, AND DISPOSED OF LEGALLY.

I. ALL DEMOLITION WORK SHALL BE COORDINATED WITH PROJECT PHASING AND NEW CONSTRUCTION PLANS.

J. ANY ROOM NAMES AND NUMBERS ON THE DEMOLITION PLANS ARE FOR EXISTING SPACES AND PERTAIN TO DEMOLITION DRAWINGS ONLY.

K. UTILITIES: LOCATE ALL EXISTING ACTIVE UTILITIES AND DETERMINE ALL REQUIREMENTS FOR DISCONNECTION, RECONNECTION, REROUTING OR CAPPING. CONTRACTOR SHALL PROTECT ALL UTILITIES DESIGNATED TO REMAIN FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES TO REMAIN DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL PAY FOR AND COORDINATE WITH LOCAL UTILITY COMPANIES FOR ALL UTILITY DISCONNECT, RECONNECT, TIE-IN, DEMOLITION WORK, AND CONSTRUCTION AS REQUIRED. CONTRACTOR SHALL COORDINATE ANY UTILITY INTERRUPTIONS WITH OWNER A MINIMUM OF 10 DAYS IN ADVANCE. FOR INFORMATION ON UTILITIES SEE SITE SURVEY SHEET AND SITE UTILITY, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS.

L. DEMOLITION DRAWINGS INDICATE THE GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO DEMOLISH AND REMOVE ALL EXISTING BUILDING ELEMENTS REQUIRED TO COMPLETE NEW WORK. CONTRACTOR SHALL VISIT THE SITE PRIOR TO PRE-DEMOLITION TO BECOME FAMILIAR WITH SITE FEATURES TO BE DEMOLISHED.

M. DEMOLITION DRAWINGS INDICATE THE GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO DEMOLISH AND REMOVE ALL EXISTING BUILDING ELEMENTS REQUIRED TO COMPLETE NEW WORK. CONTRACTOR SHALL VISIT THE SITE PRIOR TO PRE-DEMOLITION TO BECOME FAMILIAR WITH SITE FEATURES TO BE DEMOLISHED.

N. A PRE-DEMOLITION COORDINATION MEETING WITH THE ARCHITECT AND OWNER IS REQUIRED. **NO EXCEPTIONS.**

O. EXISTING TREES AND LANDSCAPING ARE TO REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROTECT THESE ITEMS DURING DEMOLITION AND CONSTRUCTION. ANY DAMAGED LANDSCAPING SHALL BE REPLACED AT NO COST THE OWNER. AT AREAS OF NEW WORK, REMOVE TREES, SHRUBS, AND BRUSH AS REQUIRED TO COMPLETE SITE GRADING AND BUILDING CONSTRUCTION.

P. CONTRACTOR SHALL PRESERVE AND PROTECT SITE FEATURES, UTILITIES, AND STRUCTURES DESIGNATED TO REMAIN, ANY DAMAGE TO ITEMS DESIGNATED TO REMAIN DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

Q. PATCH AND REPAIR ALL ASPHALT, CONCRETE, SOD, OTHER SITE ELEMENTS AS NECESSARY AT ALL AREAS OF NEW WORK AND UTILITY TRENCHING.

STAGING & FENCING

CONTRACTOR TO COORDINATE FENCING, STAGING AND PARKING LOCATIONS WITH OWNER PRIOR TO CONSTRUCTION OF EACH PHASE.

NOISE CONTROL

CONTRACTOR SHALL MAINTAIN A NOISE CONTROL PROGRAM BY SCHEDULING LOUD NOISE GENERATING ACTIVITIES AFTER SCHOOL HOURS OR WITHIN LIMITED PERIODS WHEN SCHOOLS ARE IN SESSION. COORDINATE THESE ACTIVITIES WITH OWNER ESPECIALLY AND SCHOOL REPRESENTATIVES WHEN TESTING PERIOD IS ONGOING AT NO COST TO THE OWNER.

CONSTRUCTION COMPLETION

ALL CONSTRUCTION SITE WORK MUST BE COMPLETED ON OR BEFORE THE COMPLETION DATES ESTABLISHED IN THE CONSTRUCTION CONTRACT AND IN ACCORDANCE WITH PARTIAL COMPLETION DATES.

SAFETY, SECURITY & CLEANLINESS

CONTRACTORS SHALL TAKE NECESSARY MEASURES AND PRECAUTIONS TO KEEP THE NEW BUILDING SECURE, SAFE, DURING CONSTRUCTION. SAFETY & PROTECTION OF USERS IS VERY IMPORTANT. HENCE FENCES & BARRICADES SHALL PROVIDE TOTAL PROTECTION, PROHIBITING ANY ACCESS TO CONSTRUCTION AREAS TO PEOPLE

PHASING LEGEND

- EXISTING BUILDING REMAIN
- DEMOLITION
- NEW CONSTRUCTION

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03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED PROFESSIONAL ENGINEER

ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE

OVERALL PHASING PLAN

G-006

Farmington Preschool Academy

GENERAL NOTES

1. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185–WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.

2. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THIS PROJECT AND WILL BE RESPONSIBLE FOR ANY PRIVATE AGREEMENTS NECESSARY TO EXECUTE THIS CONTRACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS EQUIPMENT TO PUBLIC OR PRIVATE PROPERTY.

3. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE ENGINEER SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ENCOUNTERED. ALL UTILITY WORK PERTAINING TO THIS PROJECT (NEW WORK AND/OR RELOCATIONS AND REPAIRS) SHALL BE COORDINATED AND PERFORMED BY THE GENERAL CONTRACTOR.

5. TOPOGRAPHIC DATA, BENCHMARKS, REFERENCE POINTS, P.I.'S, STRUCTURE TIES, AND ALL OTHER MISCELLANEOUS SURVEY INFORMATION WAS OBTAINED FROM PREVIOUS FIELD SURVEYS. IT IS ENTIRELY POSSIBLE THAT THESE POINTS MAY NO LONGER EXIST IN THE FIELD. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO REESTABLISH ANY MISSING BENCH MARKS, REFERENCE POINTS, OR P.I.'S REQUIRED FOR CONSTRUCTION OF THIS PROJECT AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY BETWEEN ADJACENT REFERENCE POINTS, BENCH MARKS, AND P.I.'S PRIOR TO THEIR USE IN CONSTRUCTING THIS PROJECT TO ASSURE THE INTEGRITY OF EACH POINT.

6. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER.

7. THE CONTRACTOR SHALL USE CAUTION AT ALL EXISTING STRUCTURES INCLUDING ALL UNREINFORCED MASONRY WALLS, BUILDINGS, FENCES ETC.. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO ANY STRUCTURES, DRIVEWAYS, LIGHT FIXTURES, AND WATER METERS, ETC.. AND SHALL REPAIR THE DAMAGES AT HIS OWN EXPENSE.

8. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2019 EDITION OF THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (GREY BOOK). ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION, NEW MEXICO CHAPTER, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

9. THE CONTRACTOR SHALL DETERMINE AND COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.

10. WHEN ABUTTING NEW ASPHALT TO EXISTING ASPHALT, SAW CUT EXISTING ASPHALT TO A NEAT STRAIGHT LINE TO MATCH NEW ASPHALT.

11. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (CITY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES. ALL UTILITY WORK PERTAINING TO THIS PROJECT (NEW WORK AND/OR RELOCATIONS AND REPAIRS) SHALL BE COORDINATED AND PERFORMED BY THE GENERAL CONTRACTOR.

12. AS OF MARCH 10, 2003, THE USEPA REQUIRES NPDES PERMIT COVERAGE FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS (COMMON PLANS OF DEVELOPMENT) THAT WILL RESULT IN THE DISTURBANCE (OR RE–DISTURBANCE) OF ONE OR MORE ACRES, INCLUDING EXPANSIONS OF TOTAL LAND AREA. THE DEVELOPER SHOULD BE MADE AWARE THAT THE USEPA REQUIRES THAT ALL "OPERATORS" (SEE FEDERAL REGISTER/VOL. 63, NO. 128 / MONDAY, JULY 6, 1999 PG 36509) OBTAIN NPDES PERMIT COVERAGE FOR CONSTRUCTION PROJECTS. GENERALLY THIS MEANS THAT AT LEAST TWO PARTIES WILL REQUIRE PERMIT COVERAGE. THE OWNER/DEVELOPER OF THIS CONSTRUCTION PROJECT WHO HAS OPERATIONAL CONTROL OVER THE PROJECT SPECIFICATIONS, THE GENERAL CONTRACTOR WHO HAS DAY–TO–DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE SITE, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PLAN AND OTHER CONDITIONS, AND POSSIBLY OTHER "OPERATORS" THAT WILL REQUIRE APPROPRIATE NPDES PERMIT COVERAGE FOR THIS PROJECT. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT FOR THE PROJECT AND PROVIDING, BUILDING, MANAGING AND MAINTAINING ALL BEST MANAGEMENT PRACTICES (BMP'S) AND TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT.

13. ALL ASPHALT PAVED SURFACES SHALL HAVE A MINIMUM SLOPE OF 1.00%. THE CONTRACTOR SHALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF ANY ASPHALT PAVED SURFACES SLOPES ARE LESS THAN 1.00% PRIOR TO CONSTRUCTION.

14. ACCESS TO DELIVERING AND RECEIVING AREAS SHALL BE KEPT OPEN AT ALL TIMES. ANY ACCESS CLOSURE MUST BE SCHEDULED WITH THE PROPERTY OWNERS AT LEAST 48 HOURS IN ADVANCE AND APPROVED BY THE OWNER, PROJECT ARCHITECT AND THE PROJECT ENGINEER.

15. MAINTENANCE OF DRAINAGE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.

16. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A TOPOGRAPHIC SURVEY PROVIDED BY **CHENY–WALTERS–ECHOLD INC. FARMINGTON NEW MEXICO, 87401, ON AUGUST 09 2023**. MILLER ENGINEERING CONSULTANTS HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THIS INFORMATION.

17. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS ON ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION,

18. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY DRAINAGE MEASURES NECESSARY TO SAFELY CONVEY STORM WATER RUNOFF. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS IN THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

19. WHEN ABUTTING NEW CONCRETE TO EXISTING CONCRETE, SAW CUT EXISTING CONCRETE TO A NEAT STRAIGHT LINE TO MATCH NEW CONCRETE DEPTH.

20. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON–WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. THIS PLAN SHALL SATISFY THE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION.

21. THE CONTRACTOR SHALL HAUL AND DISPOSE OF ALL CONCRETE RUBBLE AND OTHER REMOVALS TO AN ENVIRONMENTALLY SUITABLE LOCATION. THE CONTRACTOR SHALL FORMALLY SUBMIT IN WRITING WHERE THE RUBBLE AND OTHER REMOVALS WILL BE DISPOSED OF. THE CONTRACTOR SHALL SUBMIT IT TO THE OWNER, PROJECT ARCHITECT AND PROJECT ENGINEER FOR THEIR REVIEW AND APPROVAL.

22. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT PAVING. ANY DAMAGE TO THE ASPHALT DUE TO CONSTRUCTION ACTIVITY WILL BE REPAIRED BY THE CONTRACTOR AT OWN EXPENSE.

23. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.

24. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%,, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 12:1. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THESE REQUIREMENTS PRIOR TO CONSTRUCTION.

25. THE OWNER WILL HAVE A CERTIFIED TESTING LAB PERFORM ACCEPTANCE TESTING TO INCLUDE ALL NECESSARY COMPACTION TESTING AND MATERIAL TESTING FOR ALL FILL MATERIAL, SUBGRADE PREPARATION, BASE COURSE, HMA, AND CONCRETE WITH THE FREQUENCIES PROVIDED BELOW. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THESE TESTS WITH THE OWNER'S ACCEPTANCE TESTING LAB. THE CONTRACTOR MY CHOOSE TO PERFORM HIS OWN QUALITY CONTROL TESTING BY A SEPARATE INDEPENDENT LAB DURING CONSTRUCTION FOR HIS OWN PURPOSES.

26. ALL BASE COURSE SHALL CONSIST OF A TYPE I BASE COURSE MATERIAL.

ACCEPTANCE TESTING BY THE OWNER:

MATERIAL AND DENSITY TESTING BY THE OWNER WILL BE PERFORMED AT THE FOLLOWING FREQUENCIES:

HOT MIX ASPHALT (HMA) PAVING: HMA SAMPLING WILL BE CONDUCTED AT A RATE OF ONE FOR EACH DAY OF PAVING. THREE CORES SAMPLES SHALL BE TAKEN FOR EACH DAY OF PAVING. ACCEPTANCE TESTING FOR DENSITIES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 416. HOT MIX ASPHALT SAMPLING ACCEPTANCE TESTING SHALL BE CONDUCTED AT A RATE OF ONE SAMPLE PER DAY OF PAVING.

BASE COURSE: BASE COURSE SAMPLING WILL BE AT A RATE OF ONE SAMPLE PER SOURCE. DENSITIES TESTING WILL BE CONDUCTED WITH A NUCLEAR DENSOMETER AT A RATE OF ONE TEST PER 200 SY.

SUBGRADE: DENSITIES TESTING WILL BE CONDUCTED WITH A NUCLEAR DENSOMETER AT A RATE OF ONE TEST PER 200 SY.

SITE CONCRETE: SITE CONCRETE WILL BE TESTED BY COLLECTING THREE CONCRETE SPECIMENS FOR EVERY 10 CY OF CONCRETE. THE SPECIMENS WILL BE USED FOR THE 7 DAY BREAK AND 30 DAY BREAK RESPECTIVELY.

THE CONTRACTOR MAY CONDUCT QUALITY CONTROL TESTING AT THE CONTRACTOR'S SOLE EXPENSE.

27. THE HMA MIX DESIGN FOR THIS PROJECT SHALL MATCH THE NMDOT SP IV MIX DESIGN REQUIREMENTS. 28. THE CONTRACTOR WILL BE RESPONSIBLE FOR RECORDING ALL CHANGES OR REVISIONS FROM THESE CONSTRUCTION DRAWINGS THAT TAKE PLACE DURING CONSTRUCTION. THESE CHANGES OR REVISIONS SHALL BE NOTED ON AS BUILT DRAWINGS THAT WILL BE PROVIDED TO THE PROJECT ARCHITECT UPON COMPLETION OF THE PROJECT.

29. POTHOLING: THE CONTRACTOR SHALL BE REQUIRED TO POTHOLE ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND REPORT THE FINDINGS OF THE POTHOLING RESULTS TO THE ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.

30. ALL FILL MATERIAL SHALL MEET THE GEOTECHNICAL REPORT RECOMMENDATIONS. REPORT BY GEOMAT INC, FARMINGTON NM. ON 10/30/2023, GEOMAT PROJECT #232–4572. ALL AGGREGATES AND SUITABLE MATERIAL MUST BE OBTAINED FROM COMMERCIAL SOURCES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SOURCE MEETING ALL REQUIREMENTS OF THIS CONTRACT.

31. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND VISIBLE UTILITY FEATURES WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY VISIBLE FEATURES THAT MAY NOT APPEAR ON THE TOPOGRAPHIC SURVEY SO THAT ANY ADJUSTMENTS MAY BE MADE TO THE INTENT OF THE DESIGN. THE CONTRACTOR SHALL ALSO FIELD VERIFY EXISTING ELEVATION WHERE NEW CONSTRUCTION IS CONNECTING TO EXISTING CONSTRUCTION SO THAT PROPOSED ELEVATION AND SLOPE CHANGE MAY BE ADDRESSED AS NEEDED.

32. THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S DEMO PLANS FOR REMOVAL AND DISPOSAL OF ALL EXISTING INFRASTRUCTURE WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN WATER AND IRRIGATION SERVICE TO THE CAMPUS AT ALL TIMES DURING CONSTRUCTION.

33. ALL WELDED WIRE FABRIC SHALL CONSIST OF A 6X6 W1.4XW1.4.

34. ALL SIDEWALKS SHALL HAVE CONSTRUCTION CONTROL JOINTS SPACED EVERY 5 FEET AND EXPANSION JOINTS SPACED EVERY 30 FEET.

35. WHEN TAPPING INTO THE EXISTING SEWER MAIN TO INSTALL THE NEW SEWER MANHOLE THE CONTRACTOR SHALL PROVIDE THE NECESSARY BYPASS PUMPING (AS WELL AS OTHER MEAN AND METHODS NECESSARY) SO THAT SERVICE IS MAINTAINED AND NOT INTERRUPTED.

36. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. EXTRA CARE MUST BE GIVEN TO PRESERVING EXISTING IRRIGATION LINES AND LANDSCAPING. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE–CONSTRUCTION CONDITION AT THEIR OWN EXPENSE.

37. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT: THE BIDDER HAS CAREFULLY EXAMINED THE PROJECT SITE AND AREA OF WORK, AND THAT FROM HIS OWN INVESTIGTIONS, HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, AND THE CHARACTER QUALITY AND QUANTITIES OF MATERIALS AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, THE GENERAL AND LOCAL CONDITIONS AND OTHER ITEMS WHICH MAY IN ANY WAY AFFECT THE WORK OR ITS PERFORMANCE. NO ADDITIONAL COST SHALL ACCRUE TO THE OWNER AS A LACK OF SUCH FIELD VERIFICATIONS. THE GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL TRADES AND ALL OTHER SUBCONTRACTORS ON THE JOB. IT SHALL BE THEIR RESPONSIBILITY TO SEE THAT ALL ASPECTS OF THE WORK BE FULLY UNDERSTOOD BY ALL PERSONS PERFORMING ANY PART OF THE WORK. NO ADDITIONAL COST SHALL ACCRUE TO THE OWNER AS RESULT OF ANY LACK OF SUCH COORDINATION OR UNDERSTANDING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ESTIMATING QUANTITIES AND MATERIALS. COORDINATION BETWEEN LANDSCAPE AND CIVIL DRAWINGS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IF ANY IRREGULARITIES ARE DISCOVERED, BRING THIS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID SUBMISSION.

38. ALL WATER LINES SHALL HAVE A 36" MINIMUM BURY.

39. THE CONTRACTOR SHALL PLACE EMD DEVICES AT THE END OF ALL UTILITY SERVICE LINE SUB–OUTS SO THAT THE OWNER CAN EASILY LOCATE THEM IN FUTURE PHASES.

40. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON–WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. THIS PLAN SHALL SATISFY THE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION.

41. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.

42. THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT AND PROJECT ENGINEER OF ANY CONFLICT WITH SITE UTILITIES OR FEATURES AND OBTAIN A RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.

43. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE–CONSTRUCTION CONDITION.

44. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND OBTAINING ALL NECESSARY PERMITS AS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.

45. INSTALLATION OF ALL PIPE FITTINGS, ANGLES, BENDS, WYES, TEES ETC. REQUIRED TO INSTALL THE WATERLINE AND SANITARY SEWER LINE WILL BE CONSIDERED INCIDENTAL TO THE WATERLINE AND SANITARY SEWER LINE ITEM AND AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.

46. IF THE CONTRACTOR INADVERTENTLY DAMAGES AN EXISTING OR PROPOSED UTILITY DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR THE DAMAGED UTILITY IN ACCORDANCE WITH THE SPECIFICATIONS AS THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.

47. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.95%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4.95%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 16:1.

48. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.

49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPACTION TESTING, QUALITY ASSURANCE TESTING AND ANY OTHER TESTING REQUIRED ON CIVIL RELATED ITEMS AS OUTLINED IN THE SPECIFICATIONS.

50. ALL LOCATIONS WHERE NEW CONSTRUCTION CONNECTS TO EXISTING CONCRETE OR PAVEMENT CONTRACTOR SHALL VERIFY EXISTING SPOT ELEVATIONS SHOWN ON PLANS. IF THERE IS A CONFLICT NOTIFY PROJECT ARCHITECT AND ENGINEER TO CLARIFY DIFFERENCE.

51. ALL STORM DRAIN PIPE SHALL BE DOUBLE WALL HDPE WITH WATER TIGHT JOINTS. ALL PVC STORM DRAIN PIPE SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.

52. ALL STORM DRAIN PIPE, INLETS AND RELATED APPURTENANCES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

53. CONTRACTOR SHALL VERIFY ALL PIPE LENGTHS, SLOPES AND LOCATIONS PRIOR TO INSTALLATION WITH THE PROJECT ENGINEER.

54. CONNECTIONS TO DISSIMILAR PIPING SHALL BE WITH FITTINGS RECOMMENDED BY MANUFACTURERS.

55. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION EFFORTS (AN ASSOCIATED COSTS) FOR ALL UTILITY WORK ON THIS PROJECT.

56. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY CONFLICTS BETWEEN EXISTING OR PROPOSED UTILITIES ON THIS PROJECT PRIOR TO CONSTRUCTION.

57. THE CONTRACTOR WILL BE RESPONSIBLE FOR RECORDING ALL CHANGES OR REVISIONS FROM THESE CONSTRUCTION DRAWINGS THAT TAKE PLACE DURING CONSTRUCTION. THESE CHANGES OR REVISIONS SHALL BE NOTED ON AS BUILT DRAWINGS THAT WILL BE PROVIDED TO THE PROJECT ARCHITECT UPON COMPLETION OF THE PROJECT.

58. THE CONTRACTOR SHALL SUBMIT A JOINT PATTERN PLAN FOR THE CONCRETE PAVING ON THE PROJECT. THE JOINT PATTERNS SHALL HAVE A PLAN FOR ALL CONTROL JOINTS AND EXPANSION JOINTS REQUIRED FOR THE CONCRETE PAVING. THE PLAN SHALL FOLLOW THE GUIDANCE AND RECOMMENDATIONS BY ACI 330.

CIVIL DRAWING INDEX

SHEET No.	SHEET TITLE
CG–100	GENERAL NOTES AND INDEX TO DRAWINGS
CG–101	HYDROLOGY PLAN
C–100	OVERALL GRADING AND DRAINAGE PLAN
C–101	ENLARGED WEST GRADING AND DRAINAGE PLAN
C–102	ENLARGED NORTH GRADING AND DRAINAGE PLAN
C–103	ENLARGED SOUTH GRADING AND DRAINAGE PLAN
C–201	OVERALL SITE UTILITY PLAN
C–301	PLAN AND PROFILE – ENTRANCE ROAD
D–401	MISCELLANEOUS DETAILS
D–402	MISCELLANEOUS DETAILS
D–403	MISCELLANEOUS DETAILS
D–404	MISCELLANEOUS DETAILS

WATER AND SANITARY SEWER UTILITY GENERAL NOTES

A. AT AREAS OF CUTTING AND TRENCHING AT EXISTING ASPHALT SURFACES FOR NEW WORK, THE CONTRACTOR SHALL PATCH AND REPAIR DAMAGED ASPHALT TO MATCH EXISTING ADJACENT SURFACES

B. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICT W/ SITE UTILITIES OR FEATURES AND OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH THE WORK

C. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER/ARCHITECT

D. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE–CONSTRUCTION CONDITION

E. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

F. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH CITY OF FARMINGTON PUBLIC WORKS DEPARTMENT ON ANY UTILITY CONSTRUCTION AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

G. CONTRACTOR SHALL ADHERE TO THE N.M.A.P.W.A. (AMERICAN PUBLIC WORKS ASSOCIATION) NEW MEXICO CHAPTER, AND THE SPECIFICATIONS IN THE PROJECT MANUAL UNLESS OTHERWISE STATED FOR WATER AND SANITARY SEWER UTILITY WORK.

H. IF THERE IS A CONFLICT BETWEEN PROPOSED SEWER SERVICE, STORM DRAIN AND WATER SERVICE LINES, THE CONTRACTOR SHALL ADJUST THE WATER SERVICES AS NECESSARY TO COMPLETE THE WORK. 10' MINIMUM SEPARATION BETWEEN THE WATER AND SEWER PIPES.

I. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL IDENTIFY, LOCATE AND REMOVE ALL SUPERFLUOUS UTILITIES AND ASSOCIATED CONDUITS AND APPURTENANCES ACCORDING TO THE INDICATIONS OF THIS DRAWING. REFER TO LEGEND AND DRAWING TO INTERPRET EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE SCHOOL SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ANTICIPATED OR ENCOUNTERED.

J. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (COUNTY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES.

K. ALL WATER LINE PIPE LESS THAN 4 INCHES SHALL BE SCHEDULE 80 PVC AND ALL PIPES GREATER THAN OR EQUAL TO 4 INCHES SHALL BE C–900 PVC.

L. ALL SANITARY SEWER PIPE SHALL BE SDR–35 PVC.

M. THE CONTRACTOR SHALL COORDINATE WITH CITY OF FARMINGTON UTILITIES DEPARTMENT FOR ALL NEW UTILITY INSTALLATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ALL UTILITIES IN ACCORDANCE WITH CITY OF FARMINGTON REQUIREMENTS.

N. ALL WATERLINES SHALL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATION. ALL FIRE LINES SHALL BE FLUSHED, DISINFECTED, AND TESTED IN ACCORDANCE WITH THE NFPA CODES AND REGULATIONS.

O. SEE GENERAL NOTES ON SITE UTILITY SHEET.

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3/14/24

ARCHITECT ENGINEER

FARMINGTON PRESCHOOL ACADEMY
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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 14, 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
PROJECT NO:	
DRAWN BY:	MEC
CHECKED BY:	VAM

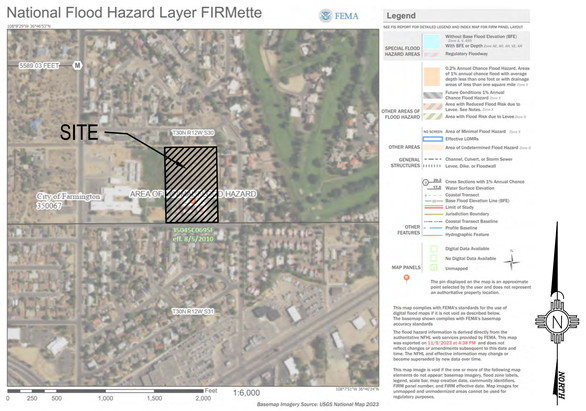
SHEET TITLE

GENERAL NOTES
AND
INDEX TO DRAWINGS

CG-100

Farmington Preschool Academy

T:\Clients\FBT ARCH\FARMINGTON PRE-SCHOOL\ACAD\Sheets\CG-100 GEN.NOTES LEGEND.dwg, CG-100, 3/14/2024 11:55:50 AM



FLOOD ZONE MAP

FLOOD ZONE MAP 35045C0695F

VICINITY MAP

GENERAL NOTES:

1. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A TOPOGRAPHIC SURVEY PROVIDED BY CHENY-WALTERS-ECHOLD INC. FARMINGTON NEW MEXICO, 87401, ON NOVEMBER 09 2023. MILLER ENGINEERING CONSULTANTS HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THIS INFORMATION.

2. PROJECT BENCHMARK IS A CITY OF FARMINGTON GPS MONUMENT NO. 91 "FARMPORT", NAD '92 (HARN) FEET SCALED BY 0.999668240 = COMBINED FACTOR AT "FARMPORT" THEN MODIFIED BY: 2,000,000.00 SUBTRACTED FROM THE NORTHING THEN MODIFIED BY: 2,500,000.00 SUBTRACTED FROM THE EASTING EQUALS MODIFIED LOCAL GROUND COORDINATES (FEET), NAVD '88 N: 89612.02 E: 110815.41 ELEV. 5500.82

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.

4. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF FARMINGTON, PRIOR TO ANY GRADING OR CONSTRUCTION.

5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.

6. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.

7. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.

8. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF FARMINGTON STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF FARMINGTON, NM "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."

9. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.

10. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.

11. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.

12. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.

13. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.

14. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.

15. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.

16. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.

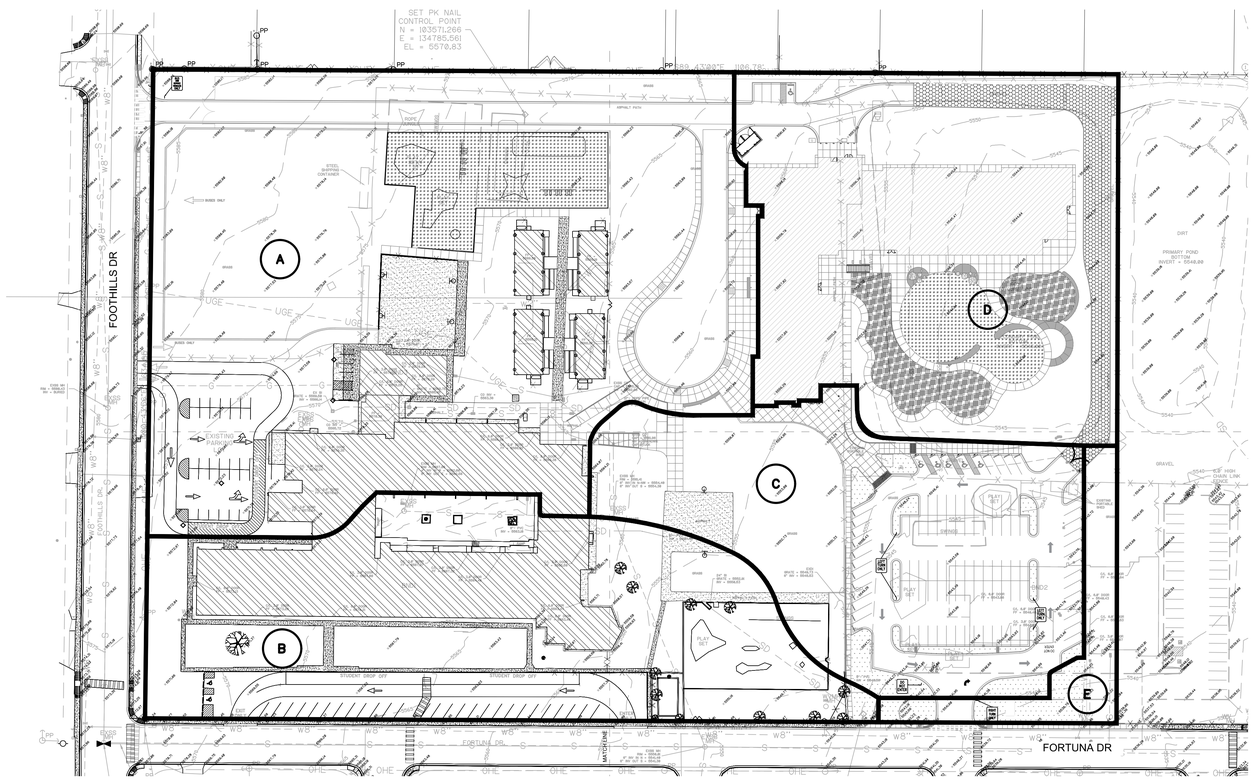
17. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.

18. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2019 EDITION OF THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (GRAY BOOK). ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN PUBLIC WORKS ASSOCIATION, NEW MEXICO CHAPTER, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

19. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

20. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY NRCS FIELD OFFICE REPRESENTATIVE APPROPRIATE FOR PROJECT LOCATION.

    ALL DISTURBED AREAS, NOT ADDRESSED BY ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL.



DRAINAGE EXHIBIT

DRAINAGE REPORT

SITE LOCATION

THE PROPOSED SITE IS AN APPROXIMATE 14-ACRE SITE LOCATED AT AT THE CORNER OF FORTUNA DRIVE AND FOOTHILLS DRIVE IN FARMINGTON, NEW MEXICO. THE SITE IS BOUND ON THE NORTH AND EAST SIDES BY AN EXISTING DEVELOPMENT, THE WEST FOOTHILLS DRIVE, AND THE SOUTH SIDE BY FORTUNA DRIVE (SEE VICINITY MAP THIS SHEET).

EXISTING CONDITIONS

THE EXISTING SITE IS ESTIMATED AT 14 ACRES AND IS CURRENTLY MOSTLY DEVELOPED WITH SEVERAL SCHOOL BUILDINGS, PARKING LOT AREAS AND LANDSCAPING. THE SITE CURRENTLY SLOPES FROM WEST TO EAST AT AROUND A 5% SLOPE.

THE SITE IS NOT ADVERSELY IMPACTED BY OFFSITE FLOWS. THE CITY HAS AN EXISTING STORM WATER DETENTION POND AND OVERFLOW POND LOCATED NEAR THE NORTHEAST CORNER OF THE SITE. THIS DETENTION POND FACILITY RECEIVES RUNOFF FROM OFFSITE CITY STREETS. THE OVERFLOW POND THAT IS LOCATED WEST OF THE DETENTION POND WILL BE RELOCATED TO MAKE WAY FOR THE NEW PRE-SCHOOL BUILDING PROJECT. THE EXISTING PRE-SCHOOL BUILDING LOCATED ON THE SOUTHEAST CORNER WILL BE DEMOLISHED TO MAKE WAY FOR THE RELOCATED OVERFLOW POND.

AS A PART OF THIS PROJECT THIS PONDING FACILITY WILL BE EXPANDED TO THE SOUTH TO MAKE WAY FOR THE NEW PRE-SCHOOL BUILDING PROJECT. THE CURRENT OVERFLOW POND THAT IS LOCATED WEST OF THE CITY'S DETENTION POND FACILITY WILL BE RELOCATED SOUTH OF THE CITY'S PONDING FACILITY TO MAKE WAY FOR THE NEW PRE-SCHOOL BUILDING.

PROPOSED CONDITIONS

THE PROPOSED PROJECT WILL CONSIST OF A NEW PRE-SCHOOL BUILDING PROJECT TO BE LOCATED IN THE NORTHEAST PORTION OF THE SITE WHERE THE EXISTING CITY OVERFLOW POND IS LOCATED. THE PROJECT WILL ALSO INCLUDE A NEW PARKING LOT, NEW ACCESS ROAD ON THE NORTH SIDE OF THE SITE AND A NEW BUS DROP OFF CUL-DE-SAC WEST OF THE NEW PRE-SCHOOL. THE EXISTING OVERFLOW POND WILL BE RELOCATED TO THE SOUTHEAST CORNER OF THE SITE JUST SOUTH OF THE EXISTING DETENTION POND FACILITY. BOHANNAN HUSTON IS REDESIGNING THE NEW OVERFLOW POND FACILITY IN THE SOUTHEAST CORNER. AS A PART OF THIS REDESIGN BHI IS DESIGNING THE NEW OVERFLOW POND FACILITY TO ACCEPT RUNOFF FROM THE SCHOOL SITE.

THE SITE HAS BEEN SEPARATED INTO FIVE DRAINAGE BASINS, A, B, C, D AND E. THE DRAINAGE CALCULATIONS FOR PROPOSED CONDITIONS ARE INDICATED ON THIS SHEET. RUNOFF FROM BASINS A, C, AND D WILL BE COLLECTED IN A STORM DRAIN SYSTEM AND WILL BE ROUTED TO THE CITY'S NEW OVERFLOW POND FACILITY. RUNOFF FROM BASINS B AND E WILL DISCHARGE TO FORTUNA AS THEY DO UNDER EXISTING CONDITIONS.

CONCLUSIONS

WITH THE ROUTING OF STORM WATER FLOWS FROM THE DEVELOPMENT IN BASINS A, C AND D TO THE CITY'S NEW OVERFLOW POND FACILITY, THE RUNOFF TO FORTUNA DRIVE WILL DECREASE FROM EXISTING CONDITIONS. BASINS B AND E WILL HAVE NO NEW DEVELOPMENT AND WILL FREE DISCHARGE TO FORTUNA AS THEY DO UNDER EXISTING CONDITIONS.

HYDROLOGY CALCULATIONS

HYDROLOGY SUMMARY TABLE

		Existign Conditions		Proposed Conditions		Increase	
Basin #	Area (Ac)	Q100 (cfs)	V100 (Acre-feet)	Q100 (cfs)	V100 (Acre-feet)	Q100 (cfs)	V100 (Acre-feet)
A	5.5	3.91	0.17	6.59	0.29	2.68	0.12
B	2.9	3.71	0.16	3.71	0.16	0	0
C	2.24	0.71	0.03	4.13	0.18	3.42	0.15
D	2.9	0.17	0.01	2.06	0.09	1.89	0.08
E	0.34	0.2	0.01	0.03	0.00	-0.17	-0.01
					Total	7.82	0.34

NORTH

60 30 0 60 90 120
SCALE: 1"=60'

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3/14/24

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CONSTRUCTION DOCUMENTS

MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
PROJECT NO:	
DRAWN BY:	MEC
CHECKED BY:	VAM

SHEET TITLE

HYDROLOGY PLAN

CG-101

Farmington Preschool Academy

T:\Clients\FBT ARCH\FARMINGTON PRE SCHOOL\ACAD\Sheets\CG-101_HYDROLOGY PLAN_11-9-23.DWG, CG-101_HYDROLOGY SHT, 3/14/2024 11:56:53 AM

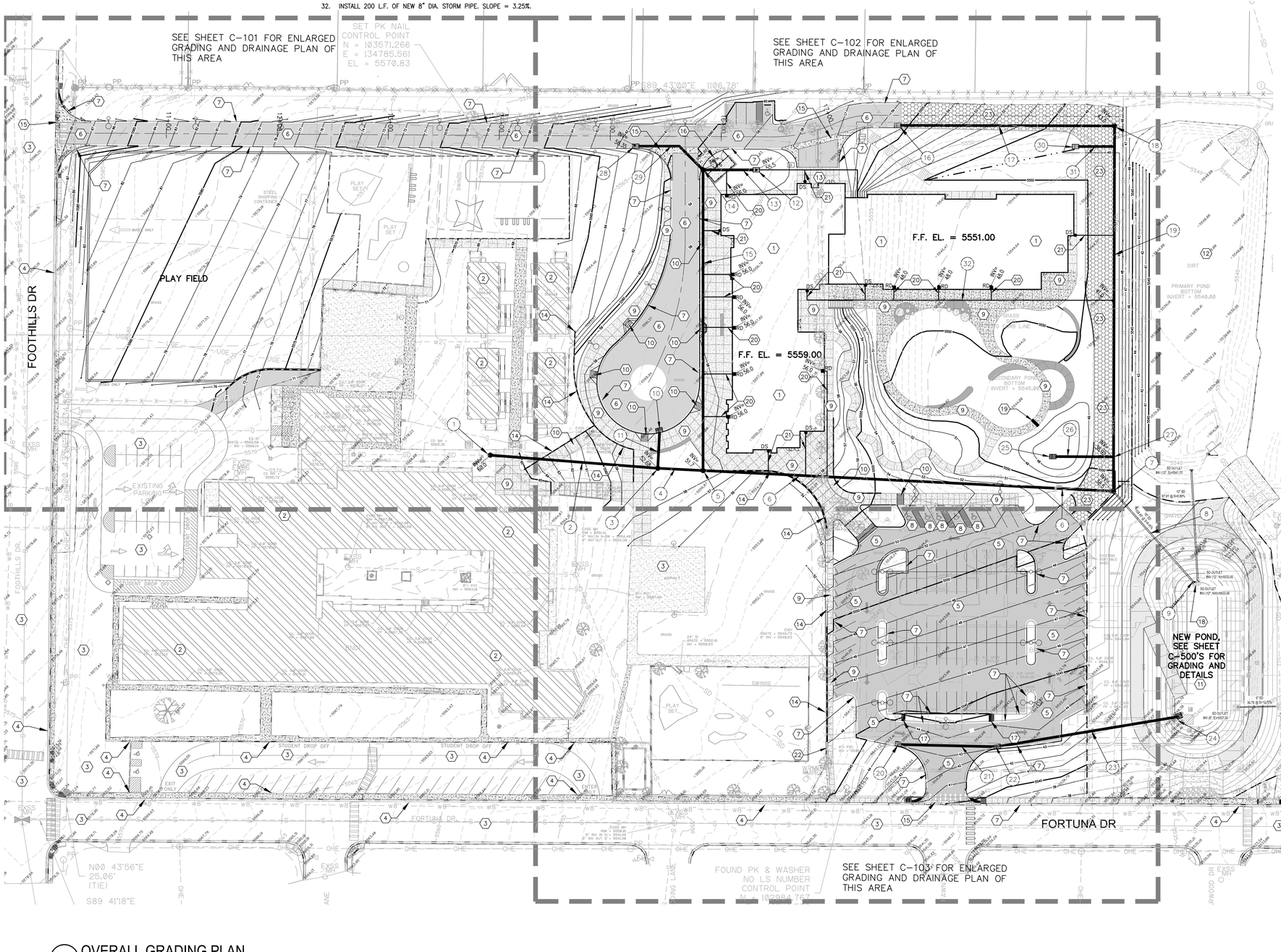
STORM DRAIN KEYED NOTES:

1. INSTALL NEW 4' DIA. MANHOLE OVER EXISTING STORM DRAIN. RIM EL. = 66.30, INV. IN EL. = 63.34, INV. OUT EL. = 60.30.
2. INSTALL 151.50 L.F. OF NEW 12" DIA. STORM PIPE, S=5.0%.
3. INSTALL NEW 4' DIA. STANDARD MANHOLE. RIM EL. = 57.69, INV EL. = 52.68.
4. INSTALL 40.75 L.F. OF NEW 12" DIA. STORM PIPE. SLOPE = 2.40%.
5. INSTALL NEW 4' DIA. STANDARD MANHOLE. RIM EL. = , INV. EL. = 51.69.
6. INSTALL 370.33 L.F. OF NEW 18" DIA. STORM PIPE, SLOPE = 3.56%.
7. INSTALL NEW 4' DIA. STANDARD MANHOLE. RIM EL. = 44.50, INV. IN EL. = 38.50 (N,W), INV. OUT EL. = 36.50 (SE)
8. NEW 18" DIA. STORM DRAIN PIPE BY OTHERS, SEE POND SHEETS C-500'S.
9. SEE NEW POND SHEETS BY C-500'S BY OTHERS.
10. INSTALL NEW TYPE D STORM INLET. GRATE EL. = 57.00, INV. EL. = 53.00.
11. INSTALL 32.43 L.F. OF NEW 12" DIA STORM PIPE. SLOPE = 1.0%.
12. INSTALL NEW TYPE D STORM INLET. GRATE EL. = 58.50, INV. EL. = 55.50.
13. INSTALL 44.90 L.F. OF 12" DIA. STORM PIPE. SLOPE = 2.0%.
14. INSTALL NEW 4' DIA. SHALLOW MANHOLE. RIM EL. = 59.75, INV. EL. 54.60.
15. INSTALL 271.06 L.F. OF NEW 18" DIA. STORM PIPE. SLOPE = 1.07%.

STORM DRAIN KEYED NOTES:

16. INSTALL NEW TYPE A STORM INLET. GRATE EL. = 55.54, INV. EL. = 51.54.
17. INSTALL 192.55 L.F. OF NEW 12" DIA. STORM PIPE. SLOPE = 4.44%.
18. INSTALL NEW 4' DIA. STANDARD MANHOLE. RIM EL. = 47.00, INV. EL. = 43.00.
19. INSTALL 329.24 L.F. OF NEW 12" DIA. STORM PIPE. SLOPE = 1.37%.
20. INSTALL NEW TYPE D STORM INLET. GRATE EL. = 43.00, INV. EL. = 40.00.
21. INSTALL 83.00 L.F. OF 12" DIA. STORM PIPE. SLOPE = 1% MINIMUM.
22. INSTALL NEW TYPE D STORM INLET. GRATE EL. = 43.00, INV. EL. = 39.0.
23. INSTALL 161.00 L.F. OF NEW 12" DIA. STORM PIPE. SLOPE = 3.73%.
24. INV. OUT EL. = 33.00.
25. INSTALL NEW TYPE D STORM INLET. GRATE EL. = 47.00, INV. EL. = 43.00.
26. INSTALL 51.10 L.F. OF 12" DIA. STORM PIPE, SLOPE = 7.98%.
27. INSTALL 12"x12"x12" STORM TEE. INV. OUT EL. = 38.92.
28. INSTALL NEW TYPE A STORM INLET. GRATE EL. = 61.35, INV. EL. = 58.35.
29. INSTALL 66.37 L.F. OF NEW 12" DIA. STORM PIPE. SLOPE = 1.0% MIN.
30. INSTALL NEW TYPE D STORM INLET. GRATE EL. = 48.75, INV. EL. = 44.75.
31. INSTALL 31.48 L.F. OF NEW 12" DIA. STORM PIPE. SLOPE = 5.40%.
32. INSTALL 200 L.F. OF NEW 8" DIA. STORM PIPE. SLOPE = 3.25%.

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN



A1 OVERALL GRADING PLAN
Scale: 1" = 40'-0"

LEGEND:

38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
MATCH (95.19)	MATCH EXISTING ELEVATIONS
WHA	WATER HARVEST AREA
TS	TOP OF SIDEWALK
TOC	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRATE
	FLOW ARROW
	PROPOSED MANHOLE
	GRADE BREAK–HIGH POINT
	SWALE
SD	STORM DRAIN LINE
5895	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
5895	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR

KEYED NOTES:

1. NEW BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
2. EXISTING BUILDING TO REMAIN.
3. EXISTING ASPHALT PAVING.
4. EXISTING CURB AND GUTTER.
5. NEW LIGHT DUTY ASPHALT PAVING. SEE TYPICAL SECTIONS SHEET D-404.
6. NEW HEAVY DUTY ASPHALT PAVING. SEE TYPICAL SECTION SHEET D-404.
7. NEW STANDARD CURB AND GUTTER, SEE DETAIL SHEET D-401.
8. NEW ADA PARKING SPACES WITH SIGNAGE. 2% MAX. SLOPE. ADJUST ELEVATIONS AT SIDEWALK TURN DOWN EDGE AS REQUIRED TO MAINTAIN 2% SLOPE ON ADA SPACES.
9. NEW CONCRETE FLAT WORK/SIDEWALK, SEE ARCHITECTURAL PLANS FOR DETAILS.
10. NEW ADA RAMP, SEE ARCHITECTURAL PLANS FOR DETAILS.
11. NEW WATER HARVEST HARVEST AREA, SEE DETAILS SHEET D-402.
12. EXISTING WATER HARVEST AREA TO REMAIN.
13. NEW LOADING DOCK, SEE ARCHITECTURAL FOR DETAILS.
14. NEW RETAINING WALLS, SEE STRUCTURAL PLANS FOR DETAILS.
15. NEW CONCRETE VALLEY GUTTER WITH FILLETS, SEE DETAIL SHEET D-401.
16. NEW TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS FOR DETAILS.
17. NEW 24" WIDE SIDEWALK CULVERT, SEE DETAILS SHEET D-401.
18. INSTALL NEW 5'x5' RIPRAP BLANKET. SEE DETAIL ON SHEET D-401.
19. INSTALL NEW (3) – 6" DIA. PVC PIPES @ 2.0% SLOPE TO DRAIN PLAY AREA UNDER WOOD FIBER MULCH. INV(IN)=48.0, INV(OUT)=47.8, L = 10'.
20. INSTALL NEW 6" DIA. STORM DRAIN PIPE AND CONNECT TO BUILDING ROOF DRAIN. MIN. SLOPE = 2.0%
21. INSTALL NEW 6" DIA. STORM DRAIN PIPE AND CONNECT TO BUILDING DOWN SPOUT. MIN. SLOPE = 2.0%. SEE CONNECTION DETAIL ON SHEET C-500.
22. EXISTING RETAINING WALL.
23. NEW BASE COURSE EMERGENCY ACCESS ROAD SEE TYPICAL SECTION SHEET C-404.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
PROJECT NO:	
DRAWN BY:	MEC
CHECKED BY:	VAM

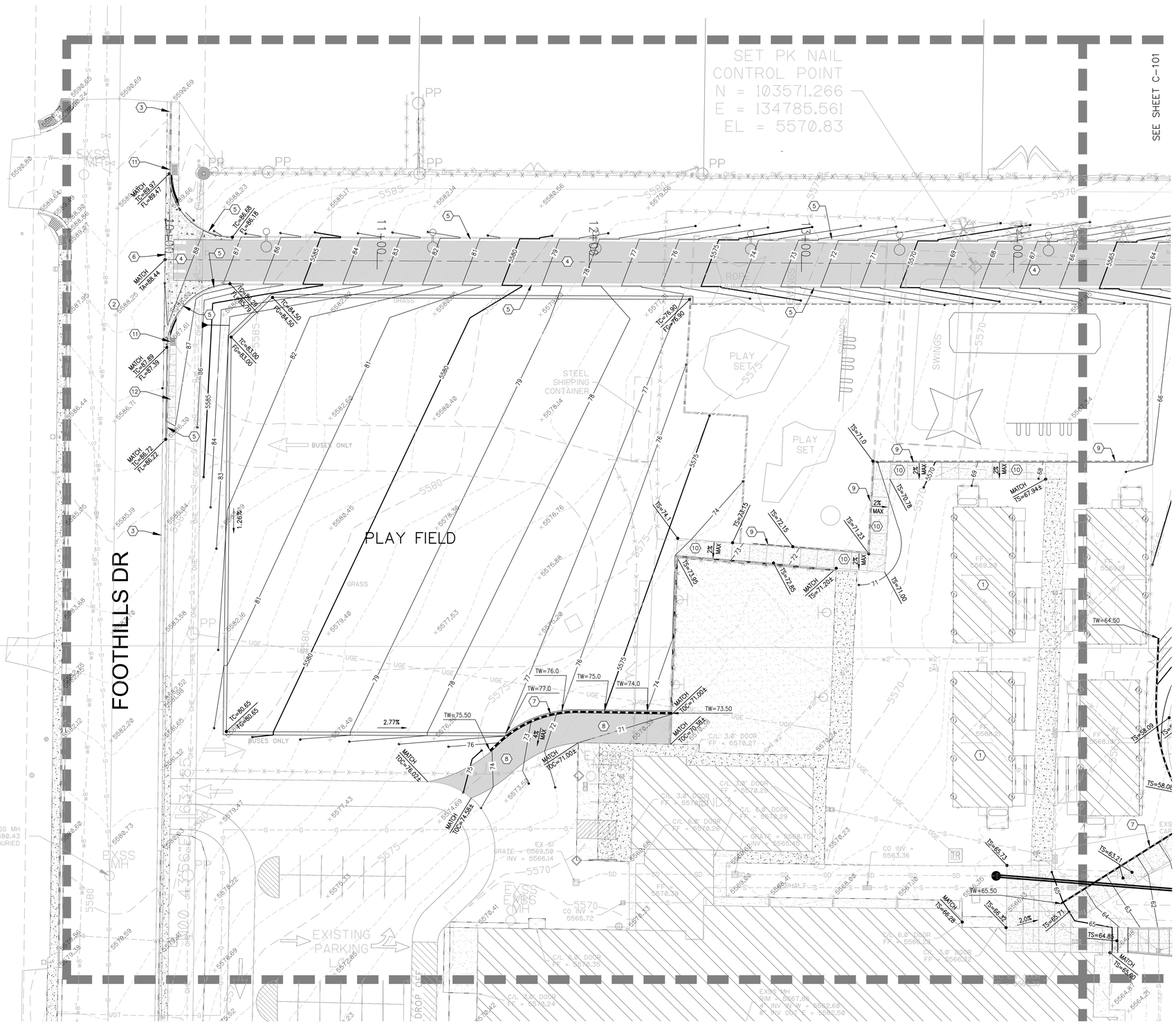
SHEET TITLE
OVERALL GRADING AND DRAINAGE PLAN

C-100

Farmington Preschool Academy

T:\Clients\FBT ARCH\FARMINGTON PRE-SCHOOL\ACAD\Sheets\C-100-OVERALL-GRADING.dwg, C-100 OVERALL, 3/14/2024 11:54:28 AM

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN



LEGEND:

38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
MATCH (95.19)	MATCH EXISTING ELEVATIONS
WHA	WATER HARVEST AREA
TS	TOP OF SIDEWALK
TOC	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRATE
	FLOW ARROW
	PROPOSED MANHOLE
	GRADE BREAK–HIGH POINT
	SWALE
SD	STORM DRAIN LINE
5895	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
5895	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR

KEYED NOTES:

1. EXISTING BUILDING TO REMAIN.
2. EXISTING ASPHALT PAVING.
3. EXISTING CURB AND GUTTER.
4. NEW HEAVY DUTY ASPHALT PAVING. SEE TYPICAL SECTIONS SHEET D–404.
5. NEW STANDARD CURB AND GUTTER, SEE DETAIL SHEET D–401.
6. NEW CONCRETE VALLEY GUTTER WITH FILLETS,, SEE DETAIL SHEET D–401.
7. NEW CONCRETE RETAINING WALL, SEE STRUCTURAL.
8. NEW LIGHT DUTY ASPHALT PAVING. SEE DETAIL SHEET D–401.
9. NEW CONCRETE HEADER CURB TO MAINTAIN 2% CROSS SLOPE ON SIDEWALK. SEE DETAIL SHEET C–401.
10. NEW CONCRETE FLAT WORK/SIDEWALK, SEE ARCHITECTURAL PLANS FOR DETAILS.
11. NEW ADA RAMP, SEE DETAIL SHEET D–401.
12. NEW SIDEWALK SEE DETAILS SHEET D–401.

SCALE: 1"=20'
CONTOUR INTERVAL = 1'

A1 ENLARGED WEST GRADING PLAN
Scale: 1" = 20'-0"

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3/14/24

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
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SHEET TITLE

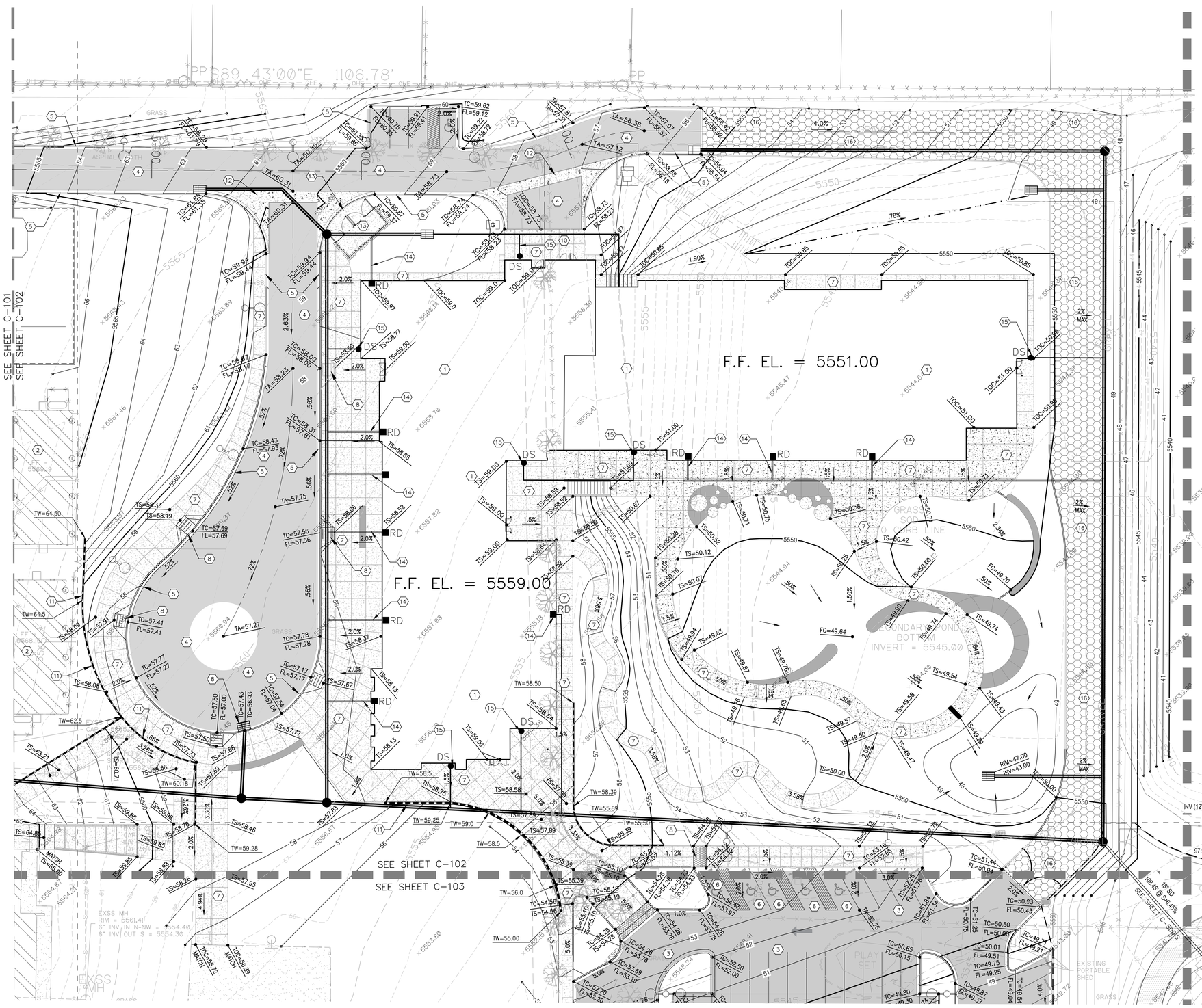
ENLARGED WEST GRADING AND DRAINAGE PLAN

C-101

T:\Clients\FBT ARCH\FARMINGTON PRE-SCHOOL\CADS\Sheets\C-100-OVERALL GRADING.dwg, C-101 ENLARGED WEST, 3/14/2024 11:53:44 AM

Farmington Preschool Academy

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN



LEGEND

38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
MATCH (95.19)	MATCH EXISTING ELEVATIONS
WHA	WATER HARVEST AREA
TS	TOP OF SIDEWALK
TOC	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRATE
	FLOW ARROW
	PROPOSED MANHOLE
	GRADE BREAK–HIGH POINT
	SWALE
SD	STORM DRAIN LINE
5895	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
5895	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR

KEYED NOTES:

1. NEW BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
2. EXISTING BUILDING TO REMAIN.
3. NEW LIGHT DUTY ASPHALT PAVING. SEE TYPICAL SECTIONS SHEET D–404.
4. NEW HEAVY DUTY ASPHALT PAVING. SEE TYPICAL SECTIONS SHEET D–404.
5. NEW STANDARD CURB AND GUTTER, SEE DETAIL SHEET D–401.
6. NEW ADA PARKING SPACES WITH SIGNAGE. 2% MAX. SLOPE. ADJUST ELEVATIONS AT SIDEWALK TURN DOWN EDGE AS REQUIRED TO MAINTAIN 2% SLOPE ON ADA SPACES.
7. NEW CONCRETE FLAT WORK/SIDEWALK, SEE ARCHITECTURAL PLANS FOR DETAILS.
8. NEW ADA RAMP, SEE ARCHITECTURAL PLANS FOR DETAILS.
9. EXISTING WATER HARVEST AREA TO REMAIN.
10. NEW LOADING DOCK, SEE ARCHITECTURAL FOR DETAILS.
11. NEW RETAINING WALLS, SEE STRUCTURAL PLANS FOR DETAILS.
12. NEW CONCRETE VALLEY GUTTER WITH FILLETS,, SEE DETAIL SHEET D–401.
13. NEW TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS FOR DETAILS.
14. INSTALL NEW 6" DIA. STORM DRAIN PIPE AND CONNECT TO BUILDING ROOF DRAIN. MIN. SLOPE = 2.0%.
15. INSTALL NEW 6" DIA. STORM DRAIN PIPE AND CONNECT TO BUILDING DOWN SPOUT. MIN. SLOPE = 2.0% SEE CONNECTION DETAIL ON SHEET C–500.
16. NEW EMERGENCY ACCESS ROADWAY, SEE TYPICAL SECTION SHEET D–404.

A1 ENLARGED NORTH GRADING PLAN
Scale: 1" = 20'-0"

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CONSTRUCTION DOCUMENTS
MARCH 2024

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ISSUE:	100% CD
DATE:	MARCH 14, 2024
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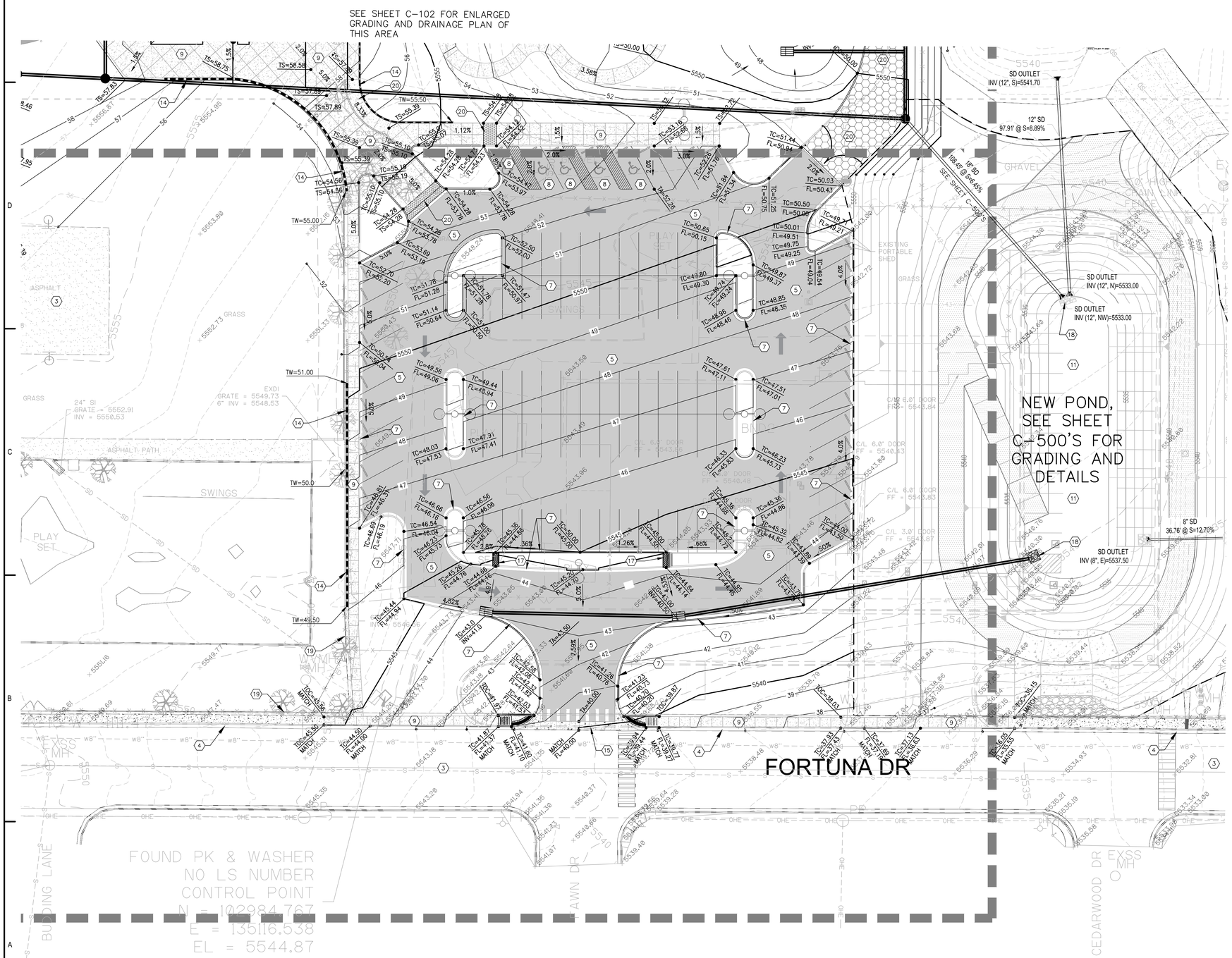
SHEET TITLE
ENLARGED NORTH GRADING AND DRAINAGE PLAN

C-102

Farmington Preschool Academy

T:\Clients\FBT ARCH\FARMINGTON PRE SCHOOL\ACAD\Sheets\C 100-OVERALL GRADING.dwg, C 102 ENLARGED NORTH, 3/14/2024 11:46:45 AM

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN



A1 ENLARGED SOUTH GRADING PLAN

Scale: 1" = 20'-0"

LEGEND

38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
MATCH (95.19)	MATCH EXISTING ELEVATIONS
WHA	WATER HARVEST AREA
TS	TOP OF SIDEWALK
TCON	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRATE
	FLOW ARROW
	PROPOSED MANHOLE
	GRADE BREAK–HIGH POINT
	SWALE
SD	STORM DRAIN LINE
5895	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
5895	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR

KEYED NOTES:

1. NEW BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
2. EXISTING BUILDING TO REMAIN.
3. EXISTING ASPHALT PAVING.
4. EXISTING CURB AND GUTTER.
5. NEW LIGHT DUTY ASPHALT PAVING. SEE TYPICAL SECTIONS SHEET D–404.
6. NEW HEAVY DUTY ASPHALT PAVING. SEE TYPICAL SECTIONS SHEET D–404.
7. NEW STANDARD CURB AND GUTTER, SEE DETAIL SHEET D–401.
8. NEW ADA PARKING SPACES WITH SIGNAGE. 2% MAX. SLOPE. ADJUST ELEVATIONS AT SIDEWALK TURN DOWN EDGE AS REQUIRED TO MAINTAIN 2% SLOPE ON ADA SPACES.
9. NEW CONCRETE FLAT WORK/SIDEWALK, SEE ARCHITECTURAL PLANS FOR DETAILS.
10. NEW ADA RAMP, SEE ARCHITECTURAL PLANS FOR DETAILS.
11. NEW WATER HARVEST HARVEST AREA, SEE DETAILS SHEET D–402.
12. EXISTING WATER HARVEST AREA TO REMAIN.
13. NOT USED.
14. NEW RETAINING WALLS, SEE STRUCTURAL PLANS FOR DETAILS.
15. NEW CONCRETE VALLEY GUTTER WITH FILLETS,, SEE DETAIL SHEET D–401.
16. NOT USED.
17. NEW 24" WIDE SIDEWALK CULVERT, SEE DETAILS SHEET D–401.
18. INSTALL NEW 5'x5' RIPRAP PAD, SEE DETAIL ON SHEET D–401.
19. EXISTING RETAINING WALL TO REMAIN.
20. NEW EMERGENCY ACCESS ROADWAY, SEE TYPICAL SECTIONS SHEET D–404.
21. NEW ADA RAMP AND STAIRS, SEE ARCHITECTURAL PLANS FOR DETAILS.

SCALE: 1"=20'
CONTOUR INTERVAL = 1'

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3/14/24

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MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
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SHEET TITLE

ENLARGED SOUTH GRADING AND DRAINAGE PLAN

C-103

Farmington Preschool Academy

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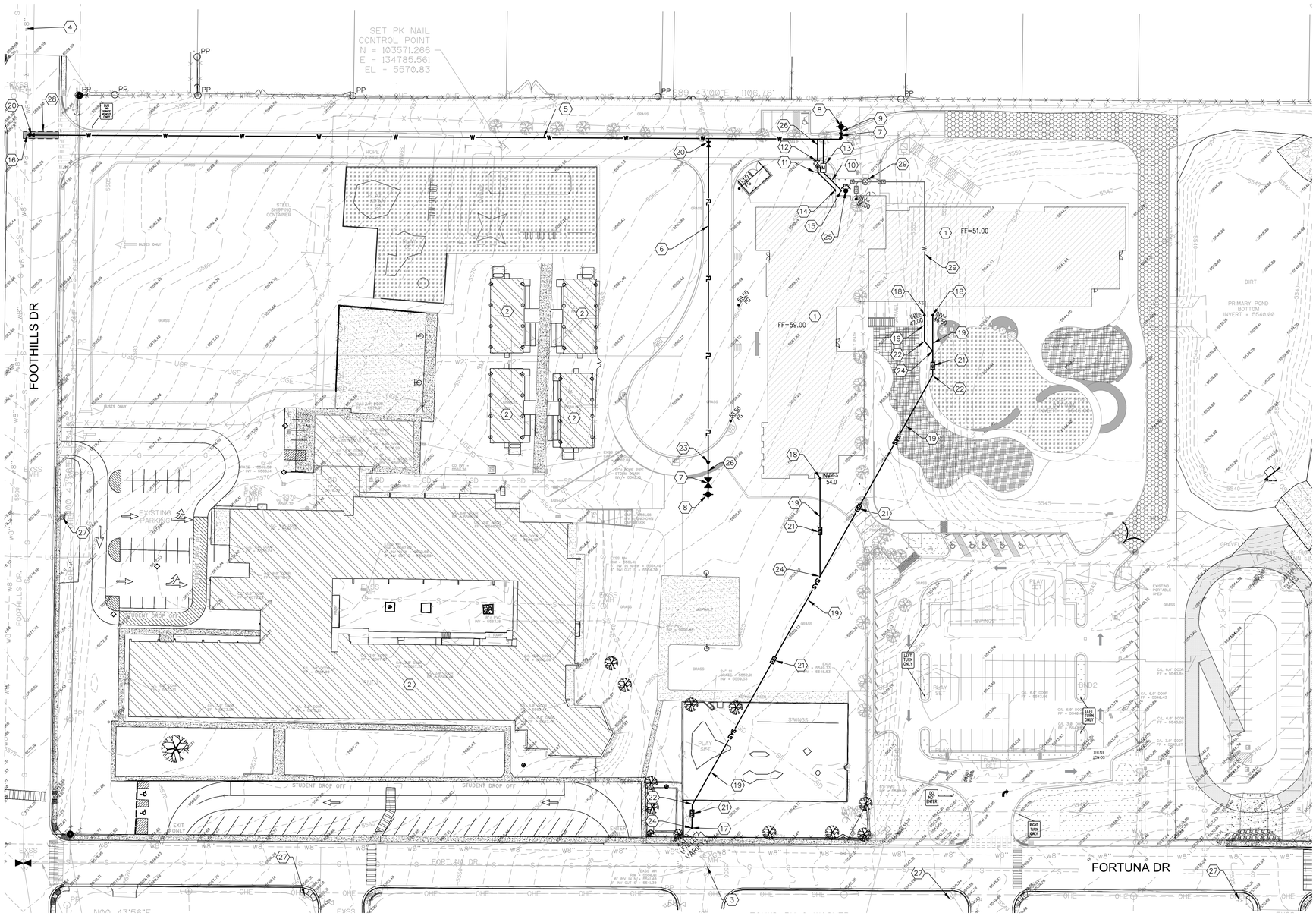

LEGEND:

—W—	NEW WATER LINE
— —W— —	EXISTING WATER LINE
—SAS—	PROPOSED SANITARY SEWER LINE
— —SAS— —	EXISTING SANITARY SEWER LINE
	NEW FIRE HYDRANT
	EXISTING FIRE HYDRANT
M	NEW WATER METER
PIV	NEW POST INDICATOR VALVE
S	EXISTING SAS MANHOLE
	PROPOSED SAS MANHOLE
—SD—	EXISTING SD LINE
—SD—	PROPOSED SD LINE
	EXISTING SD MANHOLE
	PROPOSED SD MANHOLE
WV	PROPOSED GATE VALVE
	PROPOSED CLEANOUT
BFP	PROPOSED BACK FLOW PREVENTER
FDC	PROPOSED BUILDING MOUNTED FDC.
INV= 54.0	PROPOSED INVERT ELEVATION

KEYED NOTES:

1. NEW BUILDING. SEE ARCHITECTURAL PLANS FOR DETAILS.
2. EXISTING BUILDING TO REMAIN.
3. EXISTING SANITARY SEWER MAIN.
4. EXISTING 8" WATER MAIN.
5. NEW 8" WATER MAIN (PUBLIC).
6. NEW 8" WATER MAIN (PRIVATE).
7. NEW 6" GATE VALVE, SEE DETAIL SHEET C-403.
8. NEW FIRE HYDRANT, SEE DETAIL SHEET C-403.
9. NEW 6" FIRE LINE.
10. NEW 3" DOMESTIC WATER LINE.
11. NEW 6" REDUCED PRESSURE BACK FLOW PREVENTOR AND HOT BOX, SEE DETAIL SHEET C-403.
12. NEW 6" POST INDICATOR VALVE, SEE DETAIL SHEET C-403.
13. NEW 3" WATER METER AND BOX, SEE DETAIL SHEET C-403.
14. CONNECT 6" FIRE LINE TO BUILDING AT THIS POINT. SEE PLUMBING PLANS FOR CONTINUATION.
15. CONNECT NEW 3" DOMESTIC WATER LINE TO BUILDING AT THIS POINT. SEE PLUMBING PLANS FOR FOR CONTINUATION.
16. CONNECT NEW 8" WATER LINE TO EXISTING 8" WATER MAIN AT THIS POINT.
17. CONNECT NEW 6" SEWER LINE TO EXISTING SEWER MAIN AT THIS POINT.
18. CONNECT NEW 6" SEWER LINE TO BUILDING AT THIS POINT. SEE PLUMBING PLANS FOR FOR CONTINUATION.
19. NEW 6" SEWER LINE. MINIMUM SLOPE = 0.6%.
20. NEW 8" GATE VALVE, SEE DETAIL SHEET C-403.
21. NEW DOUBLE SAS CLEANOUT, SEE DETAIL SHEET C-403.
22. NEW 6" 45° SAS BEND.
23. NEW 8"x6" REDUCER.
24. NEW 8"x8"x6" WYE.
25. NEW BUILDING MOUNTED FDC (FIRE DEPARTMENT CONNECTION). SEE PLUMBING PLANS FOR DETAILS.
26. NEW 6" DEDICATED FIRE LINE.
27. EXISTING FIRE HYDRANT TO REMAIN.
28. SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGE, REMOVE, DISPOSE OF AND REPLACE EXISTING ASPHALT PAVING BASE COURSE, SUBGRADE PREP. AS NECESSARY TO INSTALL NEW 8" WATER SERVICE LINE. W=4'. SEE HMA PAVING SECTION DETAIL SHEET C-501.
29. NEW GREASE SEPARATOR AND GREASE LINE, SEE PLUMBING PLANS FOR DETAILS.

NOTE:

1. ALL WATER LINE TO HAVE A MINIMUM 4' BURY.

40 20 0 40 60 80
SCALE: 1"=40'
CONTOUR INTERVAL = 1'

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ARCHITECT ENGINEER

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5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS

MARCH 2024

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ISSUE:	100% CD
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SHEET TITLE

OVERALL SITE UTILITY PLAN

C-201

Farmington Preschool Academy

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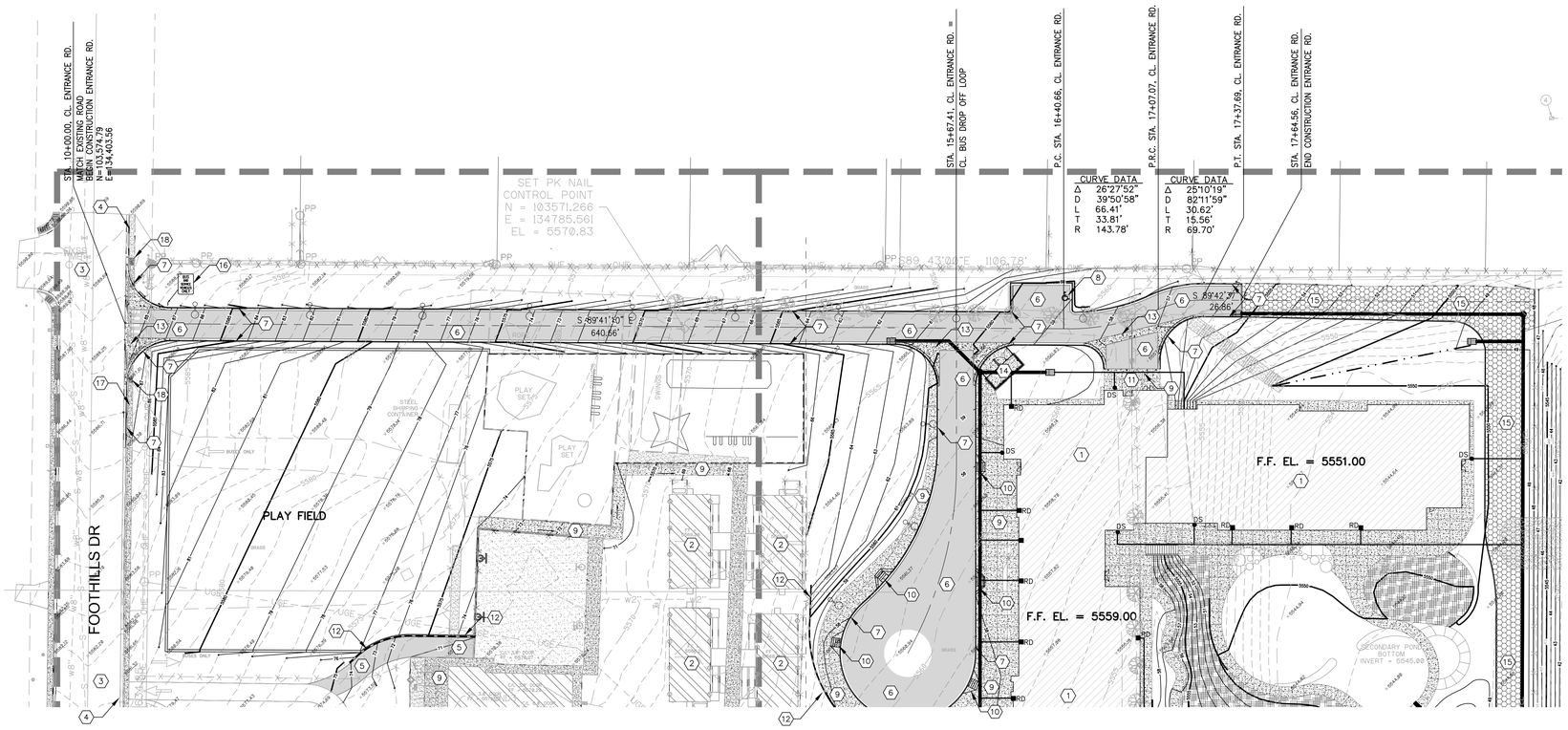
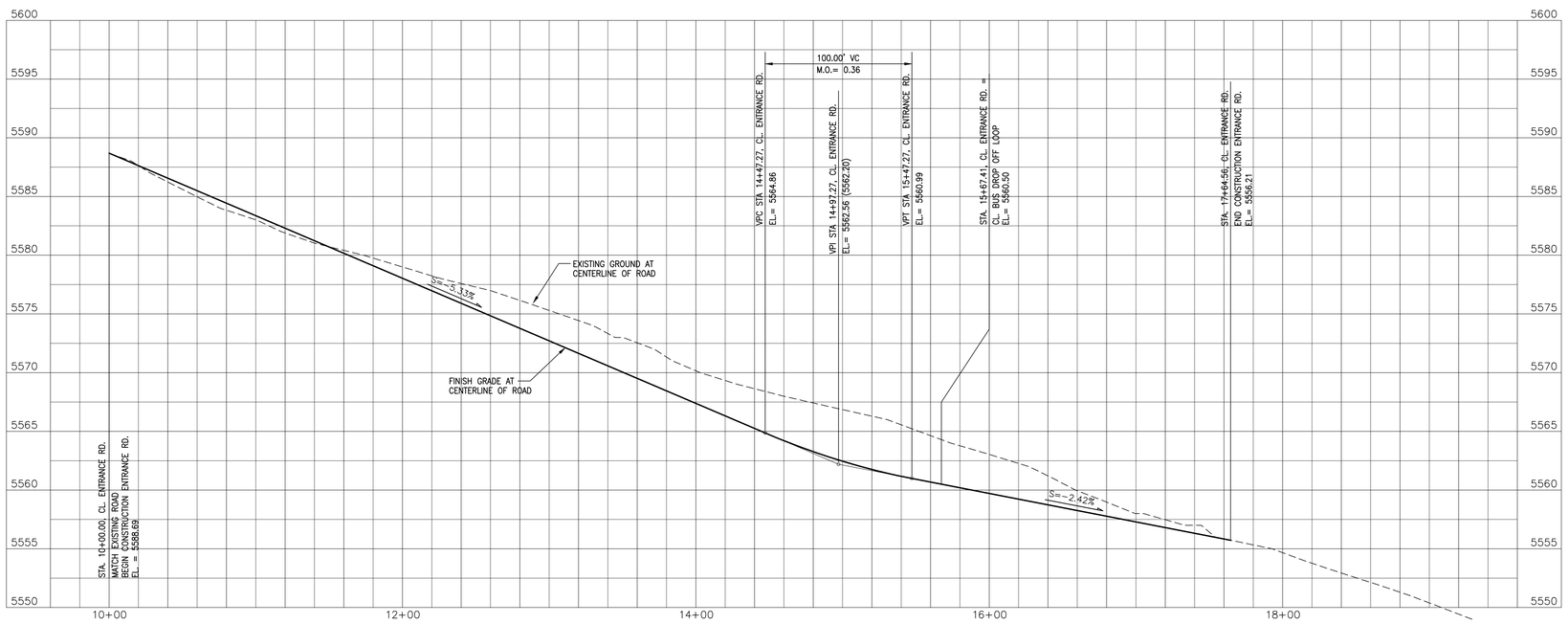


KEYED NOTES: (#)

1. NEW BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
2. EXISTING BUILDING TO REMAIN.
3. EXISTING ASPHALT PAVING.
4. EXISTING CURB AND GUTTER.
5. NEW LIGHT DUTY ASPHALT PAVING. SEE DETAIL SHEET D-401.
6. NEW HEAVY DUTY ASPHALT PAVING. SEE TYPICAL SECTION SHEET D-404.
7. NEW STANDARD CURB AND GUTTER, SEE DETAIL SHEET D-401.
8. NEW ADA PARKING SPACES WITH SIGNAGE. 2% MAX. SLOPE. ADJUST ELEVATIONS AT SIDEWALK TURN DOWN EDGE AS REQUIRED TO MAINTAIN 2% SLOPE ON ADA SPACES.
9. NEW CONCRETE FLAT WORK/SIDEWALK, SEE ARCHITECTURAL PLANS FOR DETAILS.
10. NEW ADA RAMP, SEE ARCHITECTURAL PLANS FOR DETAILS.
11. NEW LOADING DOCK, SEE ARCHITECTURAL PLANS FOR DETAILS.
12. NEW RETAINING WALLS, SEE STRUCTURAL PLANS FOR DETAILS.
13. NEW CONCRETE VALLEY GUTTER WITH FILLETS, SEE DETAIL SHEET D-401.
14. NEW TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS FOR DETAILS.
15. NEW BASE COURSE EMERGENCY ACCESS ROAD SEE TYPICAL SECTION SHEET C-404.
16. NEW SIGN, SEE ARCHITECTURAL PLANS FOR DETAILS.
17. NEW SIDEWALK, SEE DETAILS SHEET C-401.
18. NEW ADA RAMP, SEE DETAIL SHEET C-401.

40 20 0 40 60 80

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=5'
CONTOUR INTERVAL = 1'



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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
PROJECT NO:	
DRAWN BY:	
CHECKED BY:	

SHEET TITLE

PLAN AND PROFILE
ENTRANCE ROAD

C-301

Farmington Preschool Academy

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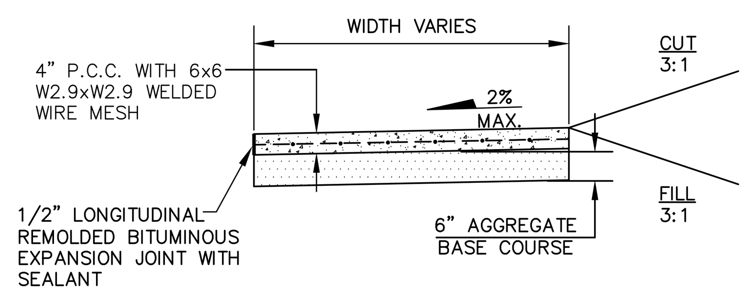
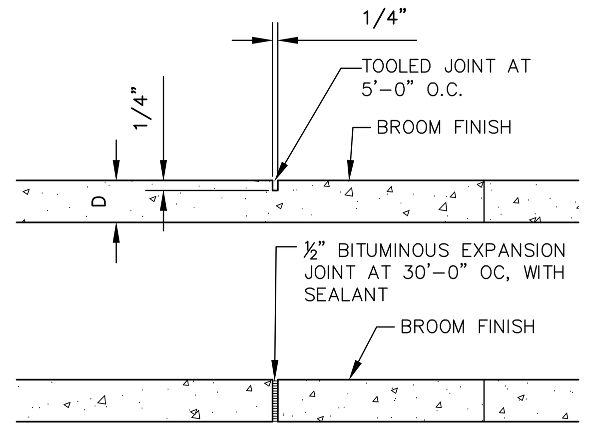


E1 TYPICAL SIDEWALK SECTION

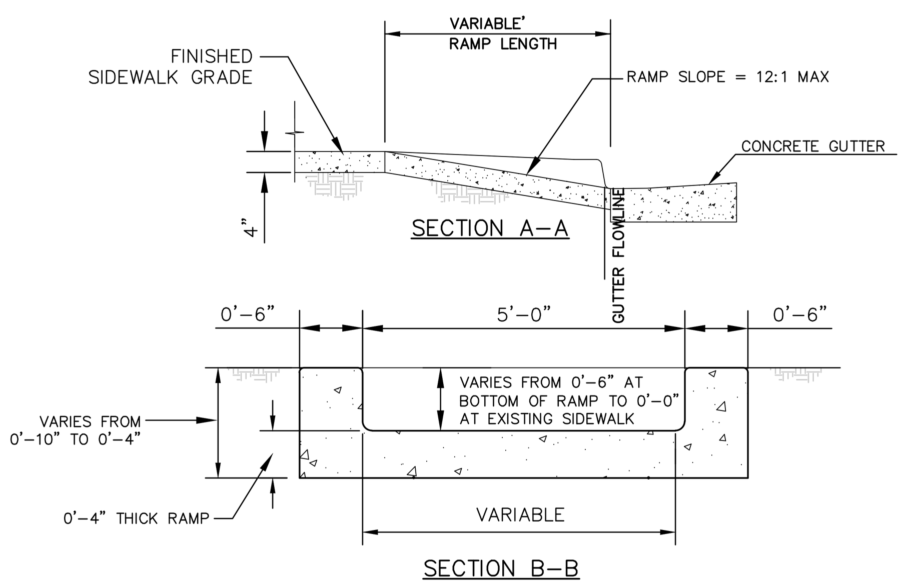
SCALE: NOT TO SCALE

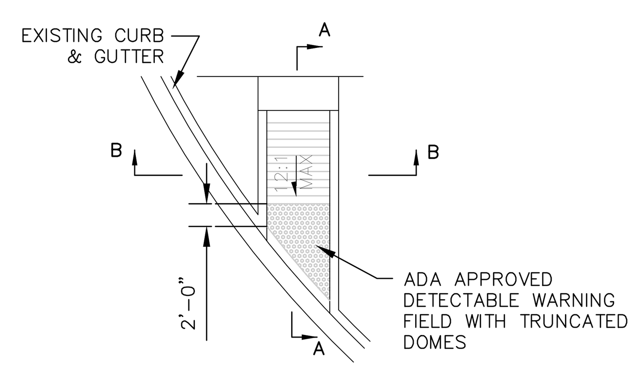


E3 CONCRETE SIDEWALK JOINTS

SCALE: NOT TO SCALE

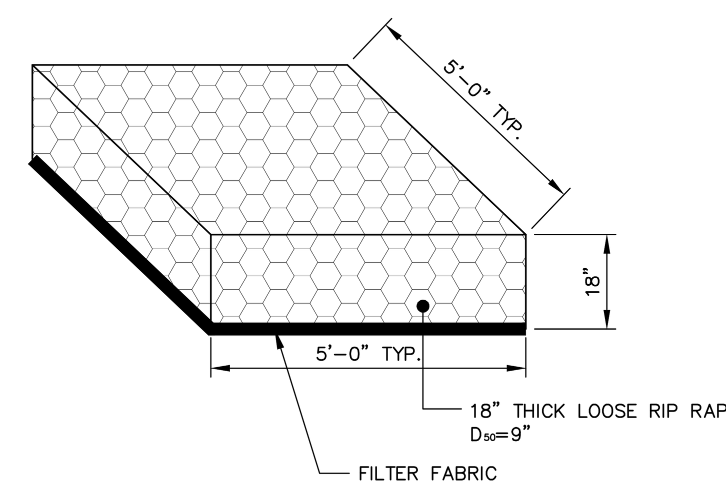
NOTE: CONCRETE JOINT PATTERNS SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.





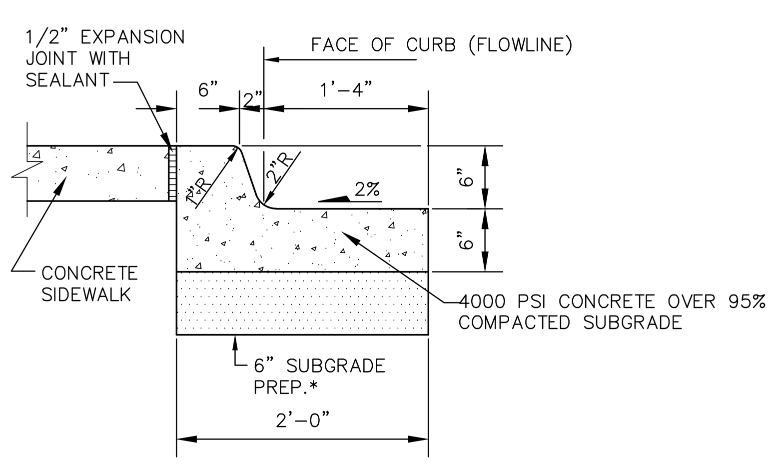
D1 HANDICAP RAMP DETAIL

SCALE: NOT TO SCALE



RIP RAP PAD DETAIL

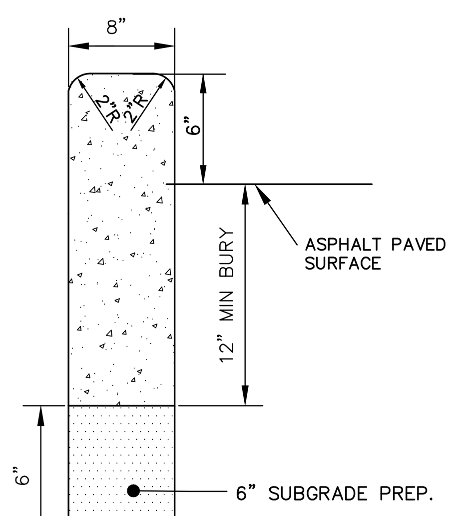
SCALE: NONE



NOTES:
1. SEE PLAN FOR SIDEWALK JOINT PATTERN.
2. CONSTRUCT 1/2" EXPANSION JOINTS WITH SEALANT @40'-0" O.C. MAX.
3. CONSTRUCT 1 1/2" DEEP TOOLED CONTROL JOINTS @5'-0" O.C. MAX.
4. MATCH TOP OF EXISTING SIDEWALK AND MAINTAIN EXISTING FLOW LINE.

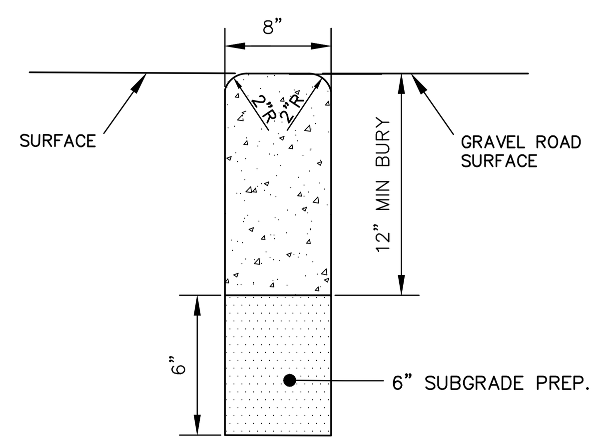
C3 TYPICAL STANDARD CURB AND GUTTER SECTION

SCALE: NOT TO SCALE



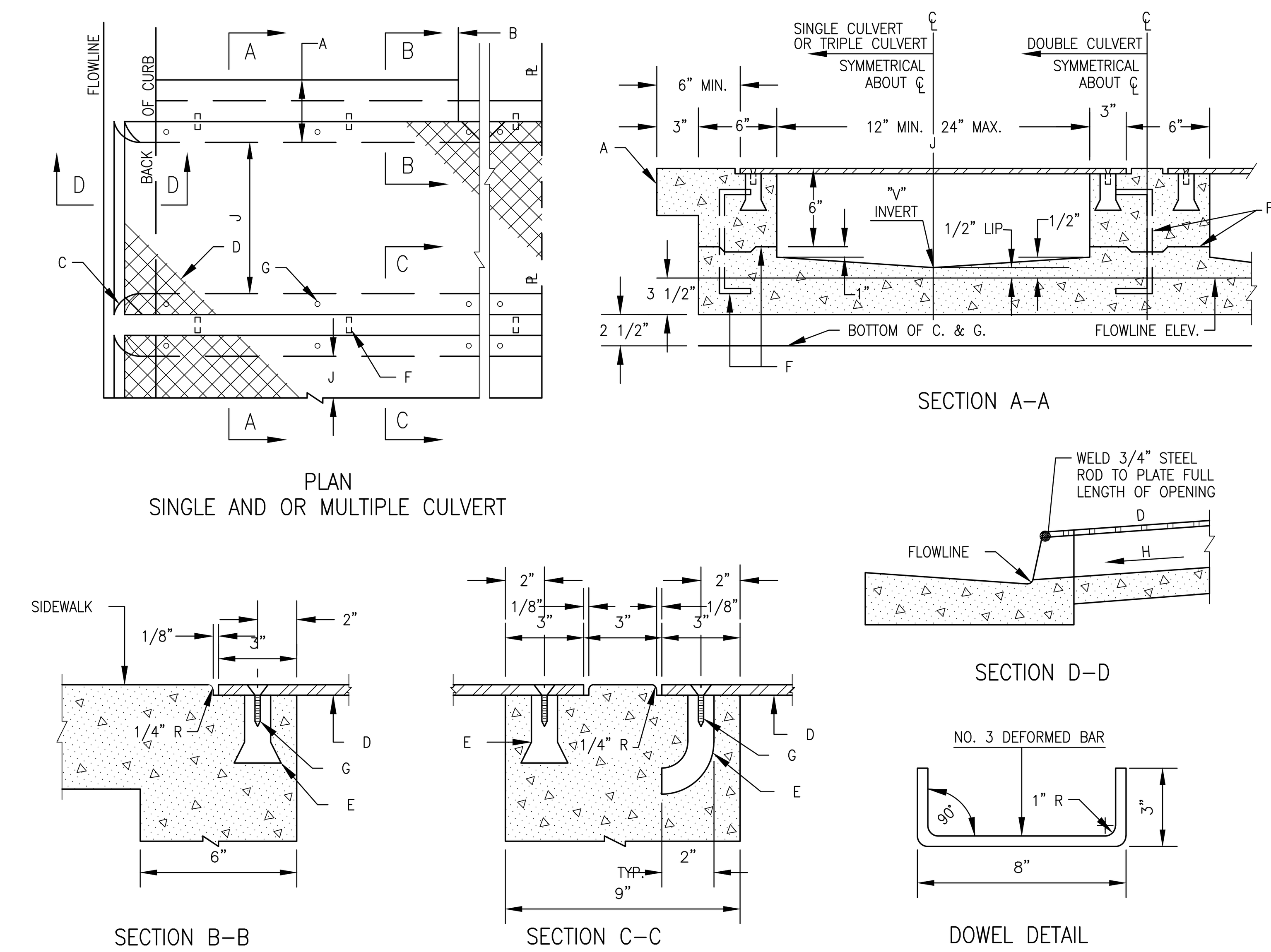
C3 HEADER CURB DETAIL

SCALE: NOT TO SCALE



C4 FLUSH CURB

SCALE: NOT TO SCALE

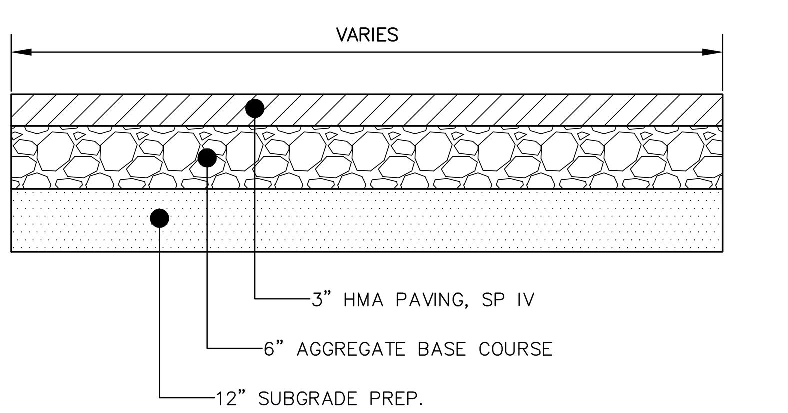


GENERAL NOTES:
1. PLACING OF DRAIN THRU EXIST. SIDEWALK AND CURB & GUTTER REQUIRES THAT ENTIRE SIDEWALK AND C & G STONES BE REMOVED AND REPLACED AS DETAILED HEREIN.
2. BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
3. THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX. DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED TO PARALLEL FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.
4. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE, COLOR, FINISH AND SCORING OF ADJACENT CURB AND SIDEWALK.
5. SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.
6. IF ROD ANCHORS ARE USED, DRILL & TAP FOR F.H. MACHINE SCREW. ATTACH ANCHORS TO PLATE AND SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.
7. LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. AND SHALL BE STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

SIDEWALK CULVERT CONSTRUCTION NOTES:
A. MATCH NEAREST CONTROL JOINT, INSTALL ½" EXPANSION JOINT.
B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
C. 3" RADIUS (TYPICAL).
D. ⅜" CHECKERED STEELE PLATE (PRINT PER NOTE 7, ABOVE.
E. FOR SECURING PLATE USE 1" x 5" S.S. ROD ANCHOR, "RED HEAD MULTI-SEE II SRM-38 ANCHOR" OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C., A MINIMUM OF 2 PER SIDE AND ONE WITH 6" OF OF EACH END.
F. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" O.C. MAX., 1½" MINIMUM FROM FACE OF CONCRETE
G. ⅜ – 16 X 1 ¼" COUNTERSUNK, F.H., STAINLESS STEEL MACHINE SCREW.
H. SLOPE ¼" PER FT. MIN DRAIN WIDTH PER PLAN (12"., MIN., 24" MAX.).

C5 SIDEWALK CULVERT DETAIL

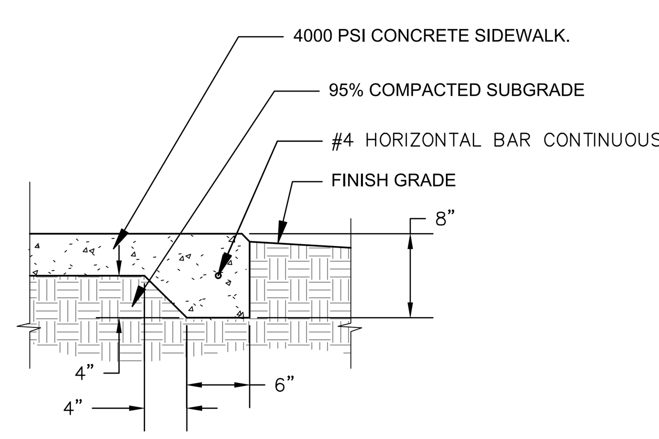
SCALE: NOT TO SCALE



B1 TYPICAL LIGHT DUTY ASPHALT PAVING DETAIL

SCALE: NOT TO SCALE

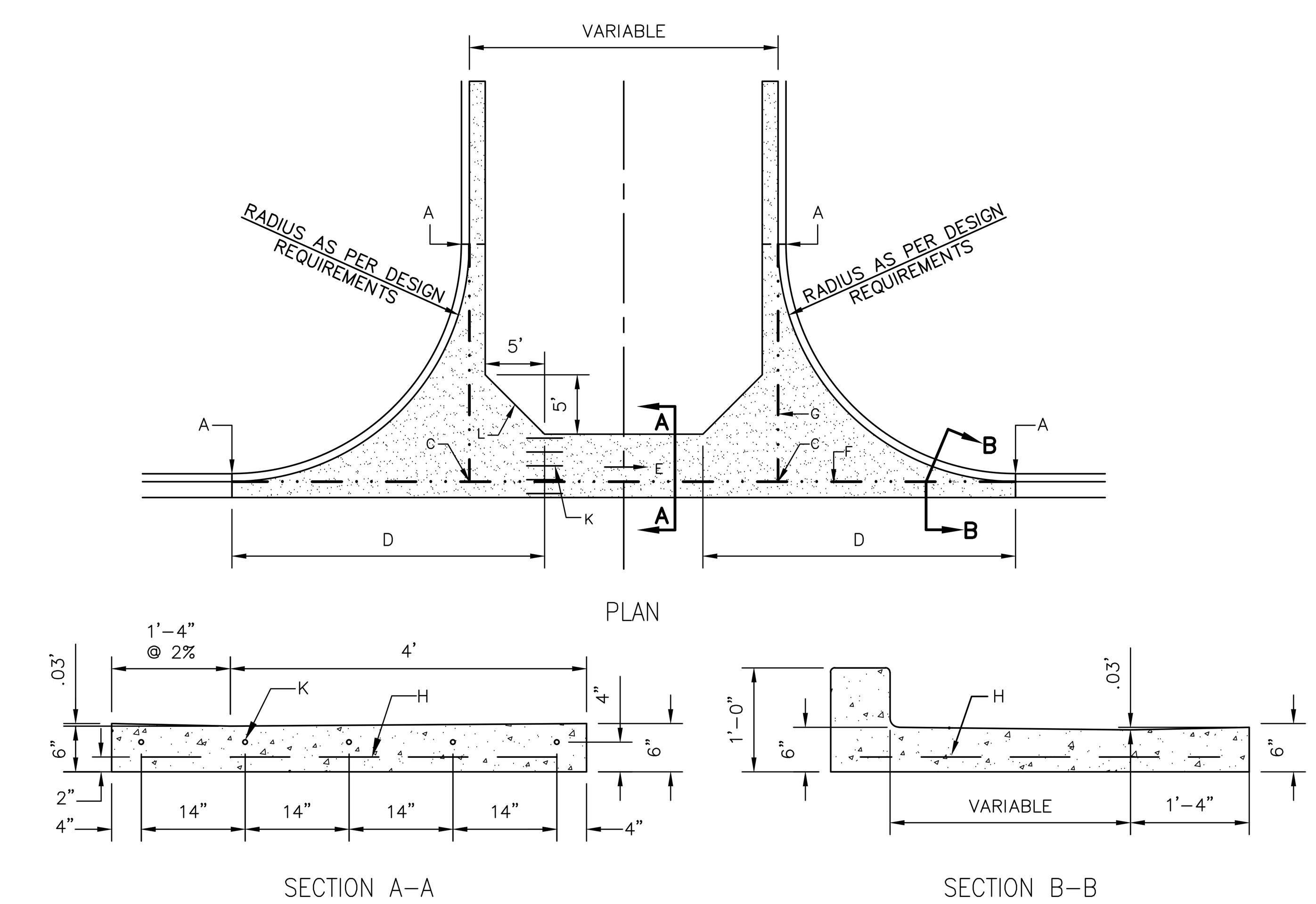
NOTE: FOR MINIMUM REQUIREMENTS
REFER TO THE GEOTECHNICAL REPORT PREPARED BY GEOMAT INC.
FARMINGTON, NM, PROJECT NO. 232-4572, DATED 10/30/2023.



NOTES:
1. TYPICAL AT ALL EXPOSED EDGES OF CONCRETE SIDEWALK
2. 3/4" CHAMFER TOP CORNER

B3 CONCRETE TURNDOWN EDGE

SCALE: NOT TO SCALE

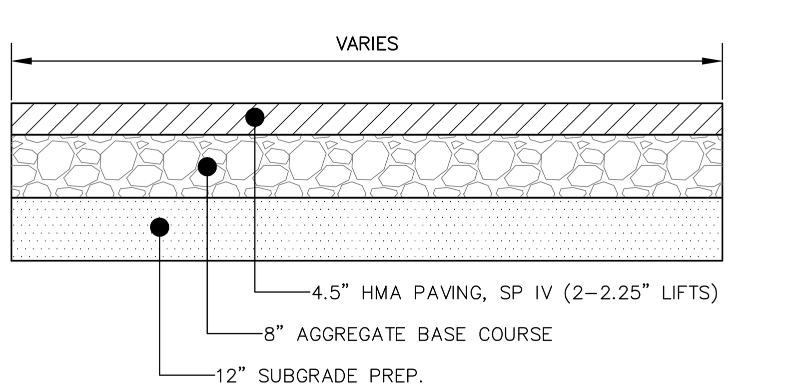


GENERAL NOTES:
1. DESIGN ELEVATIONS TO BE GIVEN AT EACH END OF THE CURB RETURN (TOP OF CURB ELEV.) AND AT INTERSECTIONS OF PROJECTED FLOWLINES (FLOWLINE ELEV.).
2. ON UPSTREAM AND DOWNSTREAM ENDS OF THE INTERSECTION, VALLEY GUTTER CONSTRUCTION SHALL EXTEND TO THE END OF RETURNS.
3. THE VALLEY GUTTER TO BE REINFORCED WITH 6"x6"xNo. 6 GA. WIRE MESH.
4. INVERT OF VALLEY GUTTER TO EXTEND FROM FLOWLINE OF UPSTREAM CURB RETURN TO FLOWLINE OF DOWNSTREAM CURB RETURN.
5. CURB FLOWLINE AND TOP OF CURB ELEV. SHOWN IN THE BOX TO CORRESPOND TO QUARTERPOINTS INDICATED ON THE CURB RETURN IN THE CLOCKWISE DIRECTION.
6. –––– DENOTES 1/2" EXPANSION JOINT.
7. FOR NEW CONSTRUCTION, VALLEY GUTTER SHALL BE CONSTRUCTED PRIOR TO ADJACENT PAVEMENT. ASPHALT CONCRETE SHALL BE INSTALLED MONOLITHICALLY TO MEET NEW VALLEY GUTTER.
8. PRIOR TO CONSTRUCTION OF NEW VALLEY GUTTER ON EXISTING ACCEPTED STREETS, PAVEMENT SHALL BE REMOVED AS SHOWN ON PLANS.

CONSTRUCTION NOTES:
A. END OF CURB RETURN, SEE NOTE 1.
B. FOR RAMP DETAILS SEE SHEET C-505
C. INTERSECTION OF FLOWLINES, SEE NOTE 1.
D. SURFACE AND CURB TO BE MONOLITHIC.
E. DIRECTION OF FLOW.
F. FLOWLINE.
G. PROJECTED FLOWLINE OF 0.03' INVERT, SEE NOTE 2.
H. 6"x6"x No. 6 GA. WIRE MESH.
K. NO. 4 REBARS 3'-0" LONG @ 14" O.C.
L. FILLET AS PER PLAN.

A4 CONCRETE PAVING VALLEY GUTTER AND RETURNS

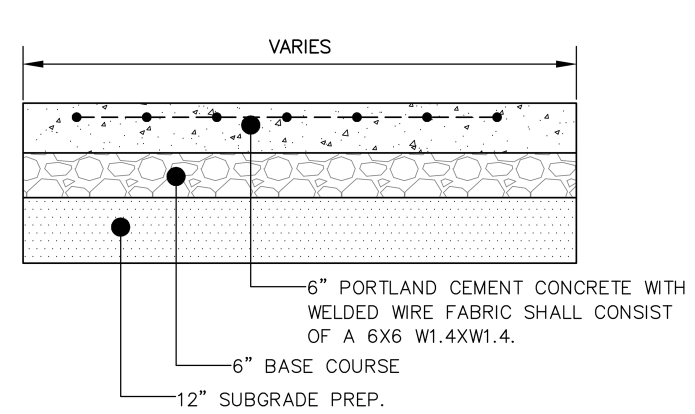
SCALE: NOT TO SCALE



A1 HEAVY DUTY ASPHALT PAVING DETAIL

SCALE: NOT TO SCALE

NOTE: FOR MINIMUM REQUIREMENTS
REFER TO THE GEOTECHNICAL REPORT PREPARED BY GEOMAT INC.
FARMINGTON, NM, PROJECT NO. 232-4572, DATED 10/30/2023.



A3 HEAVY DUTY CONCRETE PAVING SECTION

SCALE: NOT TO SCALE

NOTE: FOR MINIMUM REQUIREMENTS
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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
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DRAWN BY:	MEC
CHECKED BY:	VAM

SHEET TITLE

MISCELLANEOUS DETAILS - PAVING

D-401

Farmington Preschool Academy

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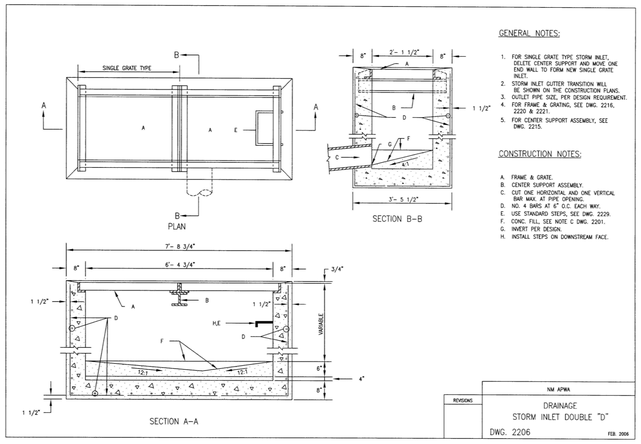


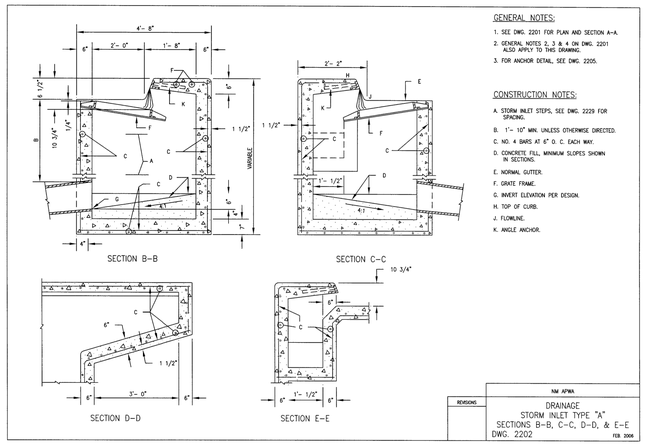
GENERAL NOTES:

1. FOR SINGLE GRATE TYPE STORM INLET, DELETE CENTER SUPPORT AND MOVE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
2. STORM INLET GUTTER TRANSITION WILL BE SHOWN ON THE CONSTRUCTION PLANS.
3. OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE DWG. 2216, 2220 & 2221.
5. FOR CENTER SUPPORT ASSEMBLY, SEE DWG. 2215.

CONSTRUCTION NOTES:

A. FRAME & GRATE.
B. CENTER SUPPORT ASSEMBLY.
C. CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
D. NO. 4 BARS AT 6" O. C. EACH WAY.
E. USE STANDARD STEPS, SEE DWG. 2229.
F. CONC. FILL, SEE NOTE C DWG. 2201.
G. INVERT PER DESIGN.
H. INSTALL STEPS ON DOWNSTREAM FACE.

REVISIONS	NM APWA DRAINAGE STORM INLET DOUBLE "D" DWG. 2206 FEB. 2006



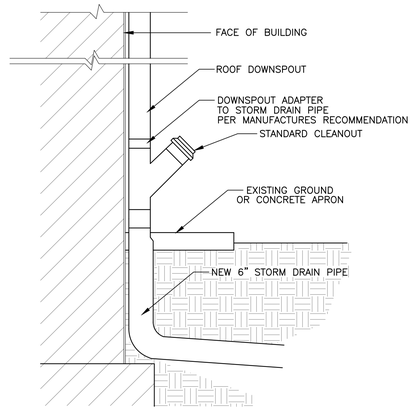
GENERAL NOTES:

1. SEE DWG. 2201 FOR PLAN AND SECTION A-A.
2. GENERAL NOTES 2, 3 & 4 ON DWG. 2201 ALSO APPLY TO THIS DRAWING.
3. FOR ANCHOR DETAIL, SEE DWG. 2205.

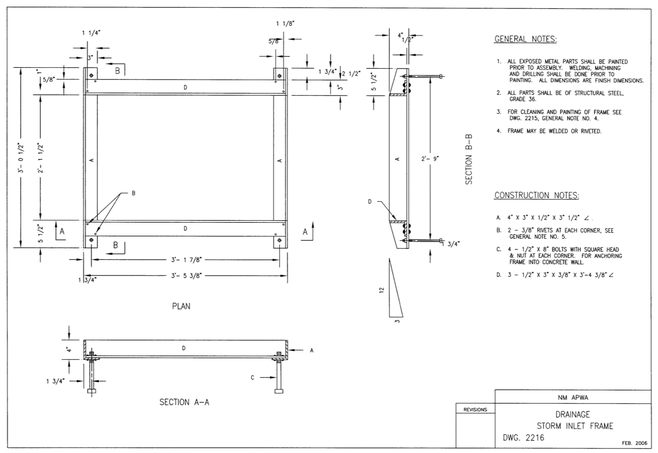
CONSTRUCTION NOTES:

A. STORM INLET STEPS, SEE DWG. 2229 FOR SPACING.
B. 1'- 10" MIN. UNLESS OTHERWISE DIRECTED.
C. NO. 4 BARS AT 6" O. C. EACH WAY.
D. CONCRETE FILL, MINIMUM SLOPES SHOWN IN SECTIONS.
E. NORMAL GUTTER.
F. GRATE FRAME.
G. INVERT ELEVATION PER DESIGN.
H. TOP OF CURB.
J. FLOWLINE.
K. ANGLE ANCHOR.

REVISIONS	NM APWA DRAINAGE STORM INLET TYPE "A" SECTIONS B-B, C-C, D-D, & E-E DWG. 2202 FEB. 2006



A3 DOWNSPOUT TO STORM DRAIN DETAIL
SCALE: NOT TO SCALE



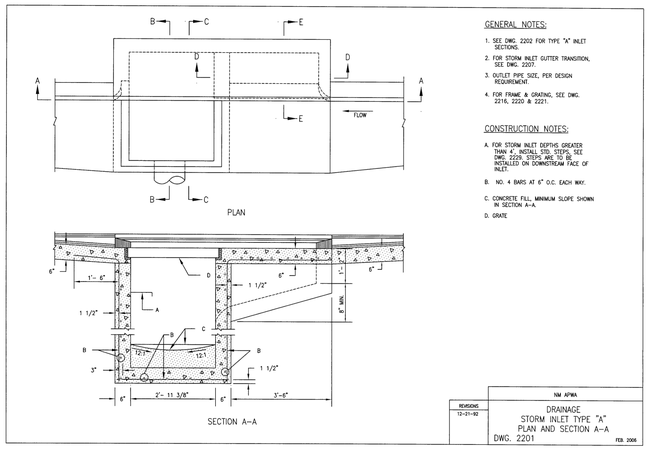
GENERAL NOTES:

1. ALL EXPOSED METAL PARTS SHALL BE PAINTED PRIOR TO ASSEMBLY. WELDING, MACHINING AND DRILLING SHALL BE DONE PRIOR TO PAINTING. ALL DIMENSIONS ARE FINISH DIMENSIONS.
2. ALL PARTS SHALL BE OF STRUCTURAL STEEL, GRADE 36.
3. FOR CLEANING AND PAINTING OF FRAME SEE DWG. 2215, GENERAL NOTE NO. 4.
4. FRAME MAY BE WELDED OR RIVETED.

CONSTRUCTION NOTES:

A. 4" X 3" X 1/2" X 3" 1/2" ∠
B. 2 - 3/8" RIVETS AT EACH CORNER, SEE GENERAL NOTE NO. 5.
C. 4 - 1/2" X 8" BOLTS WITH SQUARE HEAD & NUT AT EACH CORNER. FOR ANCHORING FRAME INTO CONCRETE WALL.
D. 3 - 1/2" X 3" X 3/8" X 3'-4 3/8" ∠

REVISIONS	NM APWA DRAINAGE STORM INLET FRAME DWG. 2216 FEB. 2006



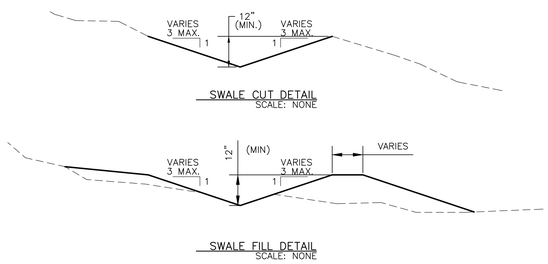
GENERAL NOTES:

1. SEE DWG. 2202 FOR TYPE "A" INLET SECTIONS.
2. FOR STORM INLET GUTTER TRANSITION, SEE DWG. 2207.
3. OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE DWG. 2216, 2220 & 2221.

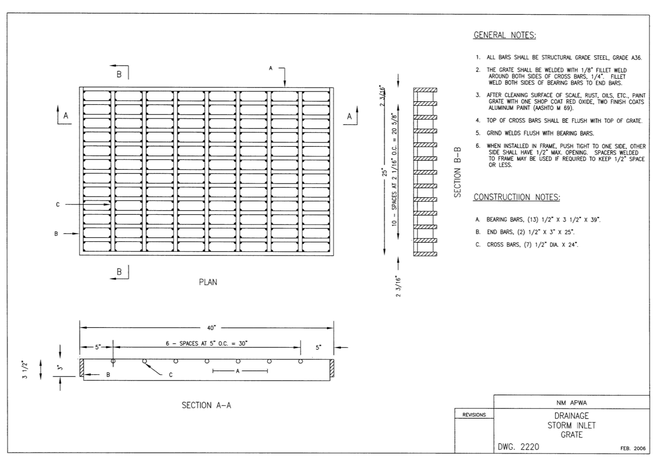
CONSTRUCTION NOTES:

A. FOR STORM INLET DEPTHS GREATER THAN 4', INSTALL STD. STEPS, SEE DWG. 2229. STEPS ARE TO BE INSTALLED ON DOWNSTREAM FACE OF INLET.
B. NO. 4 BARS AT 6" O.C. EACH WAY.
C. CONCRETE FILL, MINIMUM SLOPE SHOWN IN SECTION A-A.
D. GRATE

REVISIONS 12-21-92	NM APWA DRAINAGE STORM INLET TYPE "A" PLAN AND SECTION A-A DWG. 2201 FEB. 2006



C5 EARTHEN SWALE
SCALE: NOT TO SCALE



GENERAL NOTES:

1. ALL BARS SHALL BE STRUCTURAL GRADE STEEL, GRADE A36.
2. THE GRATE SHALL BE WELDED WITH 1/8" FILLET WELD AROUND BOTH SIDES OF CROSS BARS, 1/4". FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE, OTHER SIDE SHALL HAVE 1/2" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP 1/2" SPACE OR LESS.

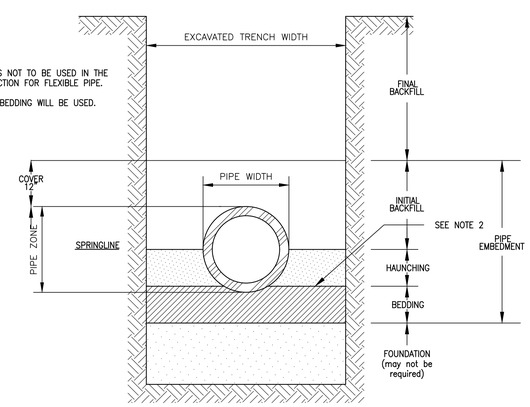
CONSTRUCTION NOTES:

A. BEARING BARS, (13) 1/2" X 3 1/2" X 39".
B. END BARS, (2) 1/2" X 3" X 25".
C. CROSS BARS, (7) 1/2" DIA. X 24".

REVISIONS	NM APWA DRAINAGE STORM INLET GRATE DWG. 2220 FEB. 2006

GENERAL NOTES:

1. MECHANICAL TAMPERS NOT TO BE USED IN THE INITIAL BACKFILL SECTION FOR FLEXIBLE PIPE.
2. MINIMUM CLASS "C" BEDDING WILL BE USED.



TRENCH CROSS-SECTION
SHOWING TERMINOLOGY

D4 TRENCHING DETAIL
SCALE: NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
3/14/24

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
PROJECT NO:	
DRAWN BY:	MEC
CHECKED BY:	VAM

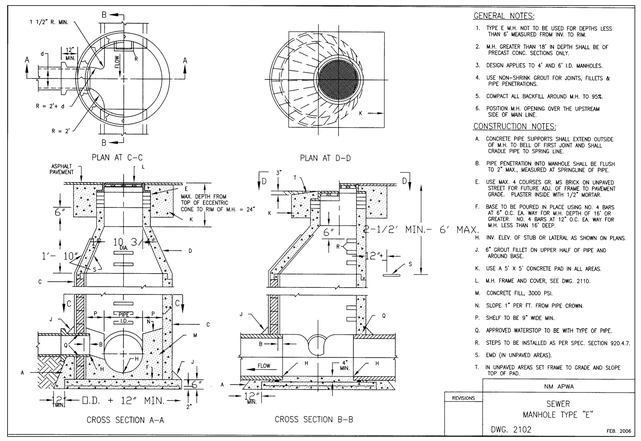
SHEET TITLE

MISCELLANEOUS DETAILS - DRAINAGE

D-402

T:\Clients\FBT ARCH\FARMINGTON PRE-SCHOOL\ACAD\Sheets\D-401 MISCELLANEOUS DETAILS.dwg, D-402, 3/14/2024 12:45:13 PM

Farmington Preschool Academy



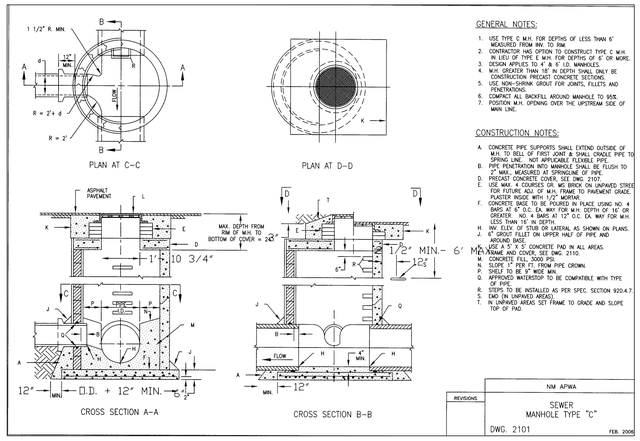
GENERAL NOTES:

1. TYPE E M.H. NOT TO BE USED FOR DEPTHS LESS THAN 6' MEASURED FROM INV. TO RIM.
2. M.H. GREATER THAN 18' IN DEPTH SHALL BE OF PRECAST CONC. SECTIONS ONLY.
3. DESIGN APPLIES TO 4' AND 6' I.D. MANHOLES.
4. USE NON-SHRINK GROUT FOR JOINTS, FILLETS & PIPE PENETRATIONS.
5. COMPACT ALL BACKFILL AROUND M.H. TO 95%.
6. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES:

A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE.
B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
E. USE MAX. 4 COURSES GR. M5 BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
F. BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' DEEP.
H. INV. ELEV. OF STUB OR LATERAL AS SHOWN ON PLANS.
J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
L. M.H. FRAME AND COVER, SEE DWG. 2110.
M. CONCRETE FILL, 3000 PSI.
N. SLOPE 1" PER FT. FROM PIPE CROWN.
P. SHELF TO BE 9" WIDE MIN.
Q. APPROVED WATERSTOP TO BE WITH TYPE OF PIPE.
R. STEPS TO BE INSTALLED AS PER SPEC. SECTION 920.4.7.
S. EWO (IN UNPAVED AREAS).
T. IN UNPAVED AREAS SET FRAME TO GRADE AND SLOPE TOP OF PAD.

REVISIONS	NM APWA
	SEWER MANHOLE TYPE "E"
	DWG. 2102 FEB. 2006



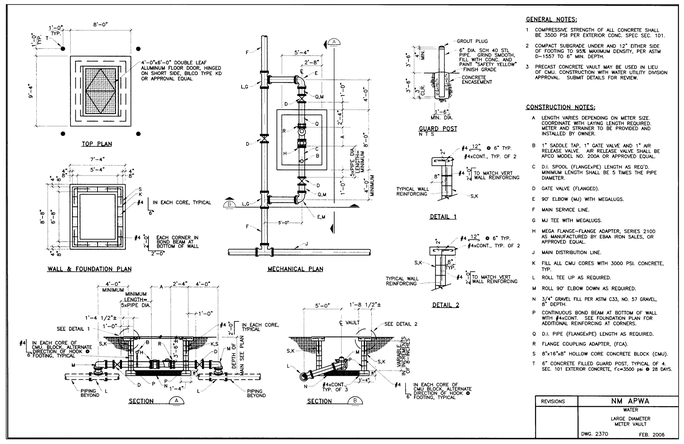
GENERAL NOTES:

1. USE TYPE C M.H. FOR DEPTHS OF LESS THAN 6' MEASURED FROM INV. TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE C M.H. IN LIEU OF TYPE E M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4' & 6' I.D. MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTION PRECAST CONCRETE SECTIONS.
5. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PENETRATIONS.
6. COMPACT ALL BACKFILL AROUND MANHOLE TO 95%.
7. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES:

A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FLEXIBLE PIPE.
B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
D. PRECAST CONCRETE COVER, SEE DWG. 2107.
E. USE MAX. 4 COURSES GR. M5 BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
H. INV. ELEV. OF STUB OR LATERAL AS SHOWN ON PLANS.
J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
L. M.H. FRAME AND COVER, SEE DWG. 2110.
M. CONCRETE FILL, 3000 PSI.
N. SLOPE 1" PER FT. FROM PIPE CROWN.
P. SHELF TO BE 9" WIDE MIN.
Q. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
R. STEPS TO BE INSTALLED AS PER SPEC. SECTION 920.4.7.
S. EWO (IN UNPAVED AREAS).
T. IN UNPAVED AREAS SET FRAME TO GRADE AND SLOPE TOP OF PAD.

REVISIONS	NM APWA
	SEWER MANHOLE TYPE "C"
	DWG. 2101 FEB. 2006



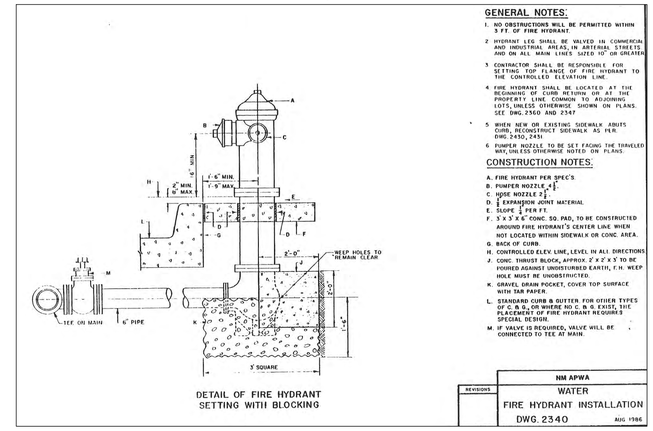
GENERAL NOTES:

1. COMPRESSIVE STRENGTH OF ALL CONCRETE SHALL BE 3500 PSI PER EXTERIOR CONC. SPEC SEC. 101.
2. COMPACT SUBGRADE UNDER AND 12" EITHER SIDE OF FOOTING TO 95% MAXIMUM DENSITY, PER ASTM D-1557 TO 6" MIN. DEPTH.
3. PRECAST CONCRETE VAULT MAY BE USED IN LIEU OF CMU CONSTRUCTION WITH WATER UTILITY DIVISION APPROVAL. SUBMIT DETAILS FOR REVIEW.

CONSTRUCTION NOTES:

A. LENGTH VARIES DEPENDING ON METER SIZE REQUIREMENTS. MINIMUM LENGTH REQUIRED. STEPS AND RAILING TO BE PROVIDED AND INSTALLED BY OWNER.
B. 1" SADDLE TAP. 1" GATE VALVE AND 1" AIR RELEASE VALVE. AIR RELEASE VALVE SHALL BE APCO MODEL NO. 200A OR APPROVED EQUAL.
C. D.I. SPOOL (FLANGE/PE) LENGTH AS REQ'D. MINIMUM LENGTH SHALL BE 5 TIMES THE PIPE DIAMETER.
D. GATE VALVE (FLANGED).
E. 90° ELBOW (MJ) WITH MEGALUGS.
F. MAIN SERVICE LINE.
G. MJ TEE WITH MEGALUGS.
H. MEGA FLANGE-FLANGE ADAPTER, SERIES 2100 OR EQUAL, MANUFACTURED BY EBAA IRON SALES, OR APPROVED EQUAL.
J. MAIN DISTRIBUTION LINE.
K. FILL ALL CMU CORES WITH 3000 PSI. CONCRETE, TYP.
L. ROLL TEE UP AS REQUIRED.
M. ROLL 90° ELBOW DOWN AS REQUIRED.
N. 1/4" CORNER FILL PER ASTM C33, NO. 57 GRAVEL, 3/4" DIAM.
P. CONTINUOUS TRENCH DRAIN AT BOTTOM OF WALL WITH #4@CONT. SEE FOUNDATION PLAN FOR ADDITIONAL REINFORCING AT CORNERS.
Q. D.I. PIPE (FLANGE/PE) LENGTH AS REQUIRED.
R. FLANGE COUPLING ADAPTER, (FCA).
S. 8"x16"x8" HOLLOW CONE CONCRETE BLOCK (CMU).
T. 6" CONCRETE FILLED GUARD POST. TYPICAL OF 4. SEC. 101 EXTERIOR CONCRETE, f'c=3000 psi @ 28 DAYS.

REVISIONS	NM APWA
	WATER LARGE DIAMETER METER VAULT
	DWG. 2370 FEB. 2006



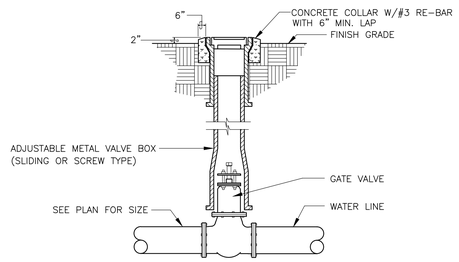
GENERAL NOTES:

1. NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 3 FT. OF FIRE HYDRANT.
2. HYDRANT LEG SHALL BE VALVED IN COMMERCIAL AND INDUSTRIAL AREAS, IN ARTERIAL STREETS, AND ON ALL MAIN LINES SIZED 10" OR GREATER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF FIRE HYDRANT TO THE CONTROLLED ELEVATION LINE.
4. FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. SEE DWG.2560 AND 2561.
5. WHEN NEW OR EXISTING SIDEWALK ABUTS CURB, RECONSTRUCT SIDEWALK AS PER DWG.2430, 2431.
6. PUMPER NOZZLE TO BE SET FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED ON PLANS.

CONSTRUCTION NOTES:

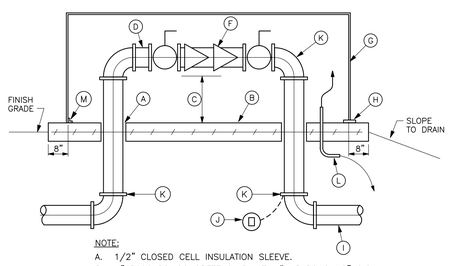
A. FIRE HYDRANT PER SPEC'S.
B. PUMPER NOZZLE 4 1/2".
C. HOSE NOZZLE 2 1/2".
D. 1/2" EXPANSION JOINT MATERIAL.
E. SLOPE 1/2" PER FT.
F. 5'x 5' x 6" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
G. BACK OF CURB.
H. CONTROLLED ELEV. LINE, LEVEL IN ALL DIRECTIONS
J. CONC. THRUST BLOCK, APPROX. 2' x 2' x 3' TO BE POURED AGAINST UNDISTURBED EARTH, f'c= WEEP HOLE MUST BE UNOBSTRUCTED.
K. GRAVEL DRAIN POCKET, COVER TOP SURFACE WITH TAR PAPER.
L. STANDARD CURB & GUTTER. FOR OTHER TYPES OF C, B, & D, OR WHERE NO C, B, & D EXIST, THE PLACEMENT OF FIRE HYDRANT REQUIRES SPECIAL DESIGN.
M. IF VALVE IS REQUIRED, VALVE WILL BE CONNECTED TO TEE AT MAIN.

REVISIONS	NM APWA
	WATER FIRE HYDRANT INSTALLATION
	DWG. 2340 AUG 1986



C2 VALVE BOX DETAIL

SCALE: NOT TO SCALE

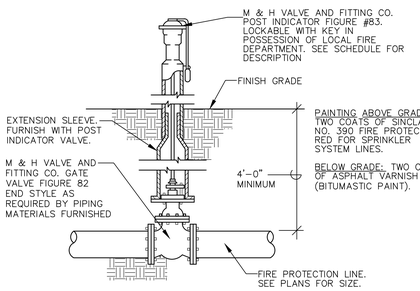


NOTE:

A. 1/2" CLOSED CELL INSULATION SLEEVE.
B. 4" 3000 PSI CONCRETE SLAB WITH #4 BARS @ 12" O.C. 50"X24" PAD SIZE.
C. 18" MINIMUM CLEAR.
D. PIPE SPOOL.
E. STEEL OR CONCRETE PIPE STANDS.
F. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY BFP-1, SEE SCHEDULE
G. THERMAL INSULATED - ELECTRIC HEATED ENCLOSURE, HE-1, SEE SCHEDULE, INSTALL PLUMB. LEVEL & SQUARE.
H. DRAIN, DRAIN TO DAYLIGHT.
I. BUILDING FIRE PROTECTION LINE.
J. CATHODIC PROTECTION ANODE BAG AT METALLIC BURIED FITTINGS.
K. RESTRAINED JOINTS TYPICAL BELOW GRADE (FLANGED ABOVE GRADE).
L. ELECTRICAL POWER - SEE ELECTRICAL PLANS.
M. STAINLESS STEEL MOUNTING HARDWARE.

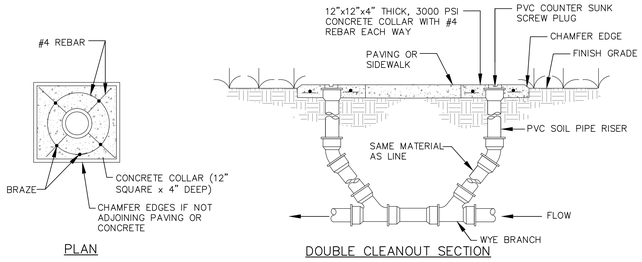
REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY (BFP-1)

SCALE: NONE



B2 POST INDICATOR VALVE DETAIL

SCALE: NOT TO SCALE



NOTE: THIS REBAR CONFIGURATION IS USED FOR ALL EXTERIOR C.O. COLLARS

A1 CLEANOUT TO GRADE DETAIL

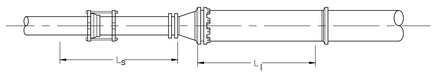
SCALE: NOT TO SCALE

FIRE PROTECTION EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
BFP-1	BACKFLOW PREVENTOR: FEBCO MODEL 860U REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WITH UNION END BALL VALVES, CHECK VALVE ASSEMBLY WITH STAINLESS STEEL SPRINGS, BRONZE BODY, WORKING PRESSURE OF 175 PSI AND WATER TEMPERATURES OF 32 F TO 140 F, USC AND IAPMO APPROVED, FURNISH WITH AG-1 AIR GAP DRAIN AND PIPE FULL SIZE TO OUTSIDE, SIZE AS SHOWN ON DRAWING. (COMBINED 6" AND 3")
HE-1	HEATED ENCLOSURE: FLIP TOP FIBERGLASS UNIT WITH HEAT, MINIMUM 1/8" THICK THIXOTROPIC POLYESTER RESIN REINFORCED WITH FIBERGLASS, SMOOTH MOLDED EXTERIOR, UV PROTECTED FINISH, 1 1/4" INSULATION(R-8), LOCKABLE FLIP TOP, ONE WAY DRAIN OPENINGS, 90 WATT HEATER, UNIT SHALL BE ASSE 1060 CERTIFIED, SELECTION BASED ON HOT BOX MODEL HB2 OR APPROVED EQUAL.

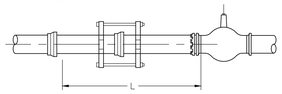
REDUCER

RESTRAIN EITHER L_S OR L_l LENGTH	(L_S) L SMALL or	(L_l) L LARGE
Size	UNOBSTRUCTED STRAIGHT RUN LENGTH, FEET RESTRAINED	LARGE SIDE RESTRAINED LENGTH, FEET
6" x 4"	42	28
8" x 4"	39	30
8" x 6"	39	30
10" x 6"	87	53
10" x 8"	36	29
12" x 8"	81	54
12" x 10"	36	30
14" x 10"	78	55



LINE SIZE	RESTRAINED LENGTH L, BOTH SIDES OF VALVE, FEET
4"	39
6"	55
8"	72
10"	86
12"	102
14"	116

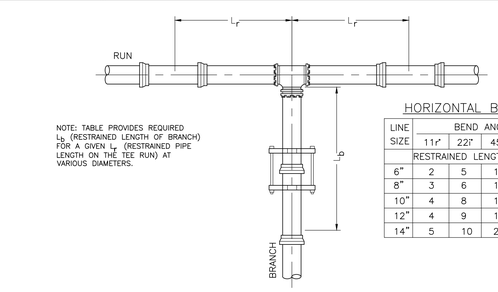
THESE LENGTHS MAY BE USED WHERE ENOUGH NEW PIPE EXISTS TO INSTALL THE RESTRAINT JOINTS ALONG A STRAIGHT PIPE RUN.



TEES

LINE SIZE	BRANCH SIZE 6" L_r=5'	L_r=10'	L_r=15'	L_r=20'	BRANCH SIZE 8" L =5'	L_r=10'	L_r=15'	L_r=20'	BRANCH SIZE 10" L =5'	L_r=10'	L_r=15'	L_r=20'	BRANCH SIZE 12" L =5'	L_r=10'	L_r=15'	L_r=20'
	RESTRAINED LENGTH L_b, FEET FOR A SPECIFIED L_r															
6"	36	18	FJO	FJO	58	44	30	16	75	64	53	41	–	–	–	–
8"	30	6	FJO	FJO	53	35	16	FJO	71	56	42	27	–	–	–	–
10"	24	FJO	FJO	FJO	48	24	1	FJO	67	48	29	10	86	70	54	38
12"	17	FJO	FJO	FJO	43	14	FJO	FJO	63	40	17	FJO	83	63	44	25
14"	FJO	FJO	FJO	FJO	21	FJO	FJO	FJO	39	12	FJO	FJO	56	33	11	FJO

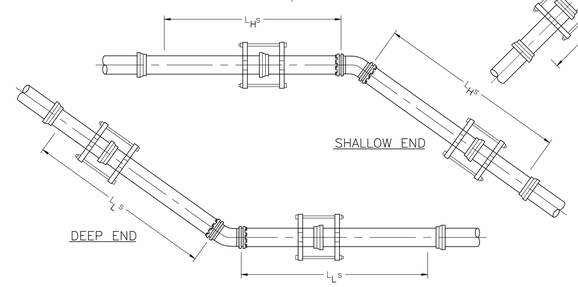
FJO: RESTRAINT REQUIRED AT FITTING JOINT ONLY

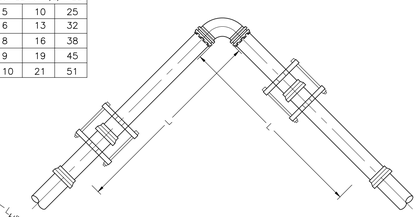


NOTE: TABLE PROVIDES REQUIRED L_b (RESTRAINED LENGTH OF BRANCH) FOR A GIVEN L_r (RESTRAINED PIPE LENGTH ON THE TEE RUN) AT VARIOUS DIAMETERS.

HORIZONTAL BENDS

LINE SIZE	BEND ANGLE 11.25°	22.5°	45°	90°
	RESTRAINED LENGTH, L, FEET			
6"	2	5	10	25
8"	3	6	13	32
10"	4	8	16	38
12"	4	9	19	45
14"	5	10	21	51





VERTICAL OFFSETS

ADDITIONAL DESIGN PARAMETERS
SHALLOW END DEPTH = 3.0'
DEEP END DEPTH = 6.0'

LINE SIZE	22.5° BEND DEEP END L_LS, FEET	SHALLOW END L_HS, FEET	45° BEND DEEP END L_LS, FEET	SHALLOW END L_HS, FEET
	RESTRAINED LENGTH			
6"	3	11	5	23
8"	3	14	7	30
10"	4	17	8	36
12"	5	20	10	42
14"	5	23	11	48

A4 PIPE RESTRAINT LENGTHS

SCALE: NOT TO SCALE

THRUST RESTRAINT GENERAL NOTES

1. *RESTRAINED PIPE LENGTHS FOR PVC USING EBAA IRON THRUST RESTRAINING SYSTEM.*
2. *LENGTHS MAY OVERLAP TO DETERMINE GREATEST RESTRAINT LENGTH IN ANY ONE DIRECTION.*
3. *CONTRACTOR SHALL MINIMIZE NUMBERS OF RESTRAINED JOINTS REQUIRED BY USING 20' LONG SECTIONS OF PIPE WITHIN THE RESTRAINED LENGTH WHERE POSSIBLE. DIVIDE LENGTH BY 20 AND TRUNCATE DECIMAL PORTION OF NUMBER TO DETERMINE THE NUMBER OF REQUIRED RESTRAINED JOINTS.*
4. *SPECIAL CONSIDERATION MAY BE NEEDED TO MEET CERTAIN FIELD CONDITIONS.*
5. *RESTRAINT LENGTHS MAY EXTEND INTO EXISTING WATER MAINS, REQUIRING RESTRAINED FITTINGS TO BE PLACED AT EXISTING WATERLINE JOINTS FOR THE LENGTH SPECIFIED IN THE TABLES ON THIS SHEET.*
6. *CONCRETE BLOCKING, PER COA STANDARD DRAWING 2320, SHALL BE USED IN LIEU OF RESTRAINED JOINTS AT ALL CAPS. DESIGN ASSUMPTIONS:*

   SAFETY FACTOR: 1.5
   PRESSURE: 150 PSI
   SOIL TYPE: GM & SM - SILTY GRAVELS AND SILTY SANDS
   PIPE: PVC
   TRENCH TYPE: 3 (PIPE BEDDED IN 4 INCHES MINIMUM LOOSE SOIL. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF THE PIPE.)

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MARCH 2024

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MISCELLANEOUS DETAILS - UTILITIES

D-403

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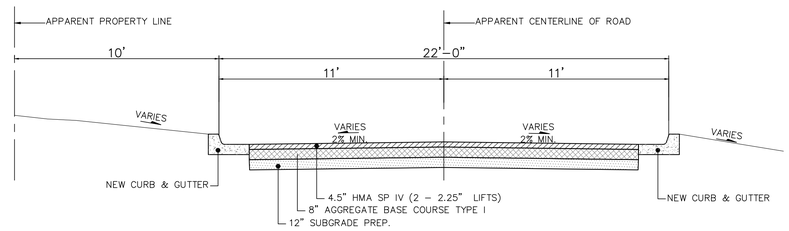
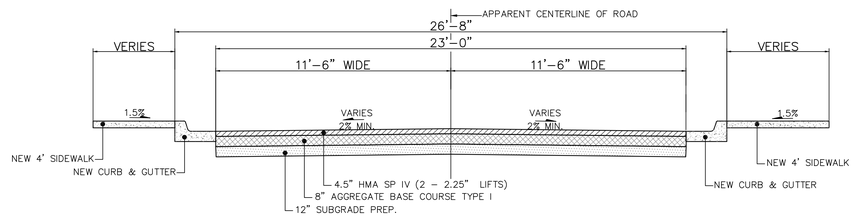
Farmington Preschool Academy



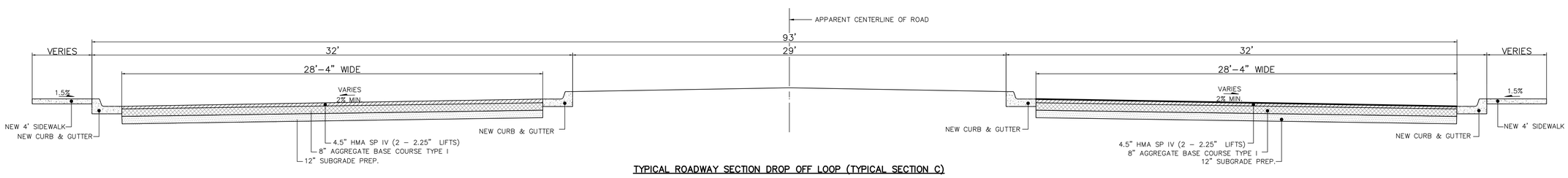
TYPICAL ROADWAY SECTION ENTRANCE ROAD (TYPICAL SECTION A)

SECTION WITH CURB AND GUTTER
SCALE: 1"=3'



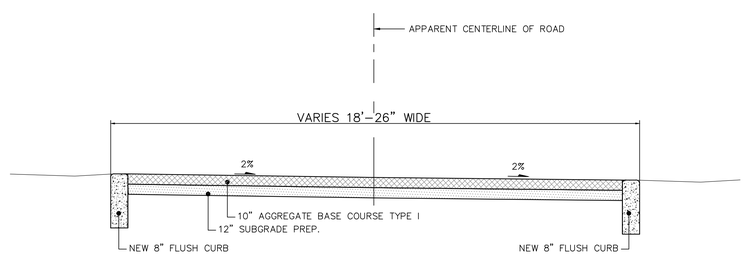
TYPICAL ROADWAY SECTION DROP OFF LOOP (TYPICAL SECTION B)

SECTION WITH CURB AND GUTTER
SCALE: 1"=3'



TYPICAL ROADWAY SECTION DROP OFF LOOP (TYPICAL SECTION C)

SECTION WITH CURB AND GUTTER
SCALE: 1"=3'



TYPICAL ROADWAY SECTION EMERGENCY ACCESS ROAD (TYPICAL SECTION D)

SECTION WITH FLUSH HEADER CURB
SCALE: 1"=3'

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3/14/24

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	100% CD
DATE:	MARCH 14, 2024
PROJECT NO:	
DRAWN BY:	MEC
CHECKED BY:	VAM

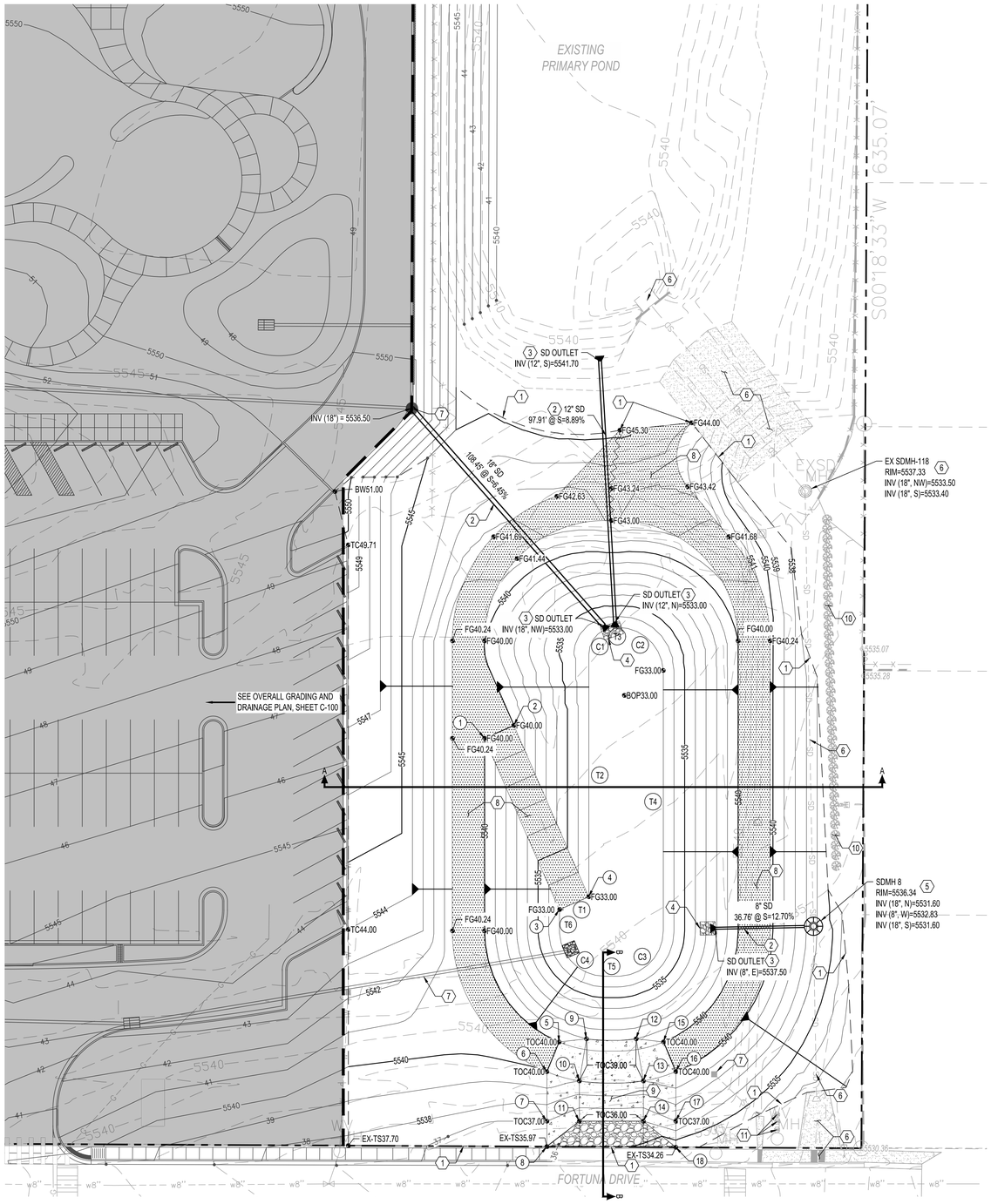
SHEET TITLE

MISCELLANEOUS DETAILS - SECTIONS

D-404

Farmington Preschool Academy

T:\Clients\FBT ARCH\FARMINGTON PRE-SCHOOL\ACAD\Sheets\D-401 MISCELLANEOUS DETAILS.dwg, D-404, 3/14/2024 12:44:58 PM



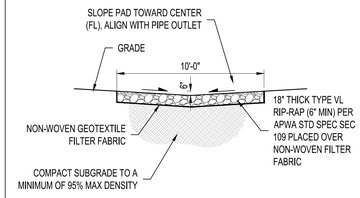
Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	15.71'	10.00'	89°59'08"	10.00'
C2	26.70'	17.00'	90°00'00"	17.00'
C3	26.70'	17.00'	90°00'00"	17.00'
C4	26.70'	17.00'	90°00'00"	17.00'

Tangent Table		
ID	BEARING	LENGTH
T1	N66°25'19"E	12.00'
T2	N00°00'00"E	90.84'
T3	N90°00'00"E	0.85'
T4	S00°00'00"E	96.58'
T5	N90°00'00"W	4.85'
T6	N00°00'00"E	7.94'

Point Table		
○	NORTHING	EASTING
1	103128.33	135384.10
2	103133.13	135395.10
3	103064.17	135412.10
4	103068.97	135423.10
5	103014.62	135411.97
6	103003.53	135407.40
7	102984.98	135407.40
8	102975.45	135407.40
9	103015.81	135422.23
10	103000.04	135419.55
11	102984.98	135419.55
12	103015.81	135440.82
13	103000.04	135443.50
14	102984.98	135443.50
15	103014.62	135451.09
16	103003.53	135455.65
17	102984.98	135455.65
18	102975.21	135455.65

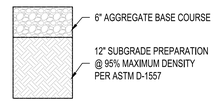
GRADING KEYED NOTES

1. GRADING LIMIT. TIE TO EXISTING ELEVATION. PLEASE NOTIFY ENGINEER OF ANY DIFFERENCES IN SITE CONDITION OR GRADE THAT ARE IDENTIFIED IN THE FILED.
2. INSTALL HDPE (N12 OR APPROVED EQUAL) STORM DRAIN PIPE.
3. INSTALL CMP END SECTION.
4. INSTALL RIP-RAP PAD PER DETAIL 1, THIS SHEET.
5. INSTALL 6' DIAMETER TYPE "C" STORM DRAIN MANHOLE. EXISTING STORM DRAIN TO REMAIN, CAST-IN-PLACE MANHOLE BASE TO BE CONSTRUCTED AROUND EXISTING PIPE.
6. PROTECT EXISTING STORM DRAIN INFRASTRUCTURE IN PLACE.
7. SEE OVERALL GRADING AND DRAINAGE PLAN, SHEET C-100 FOR ON-SITE STORM DRAIN DETAILS.
8. INSTALL POND ACCESS ROAD PER DETAIL 2, THIS SHEET.
9. INSTALL CONCRETE EMERGENCY SPILLWAY PER DETAIL 3, THIS SHEET.
10. PROTECT EXISTING VEGETATION IN PLACE.
11. EXISTING IRRIGATION INFRASTRUCTURE. SEE LANDSCAPE PLANS FOR DETAILS.



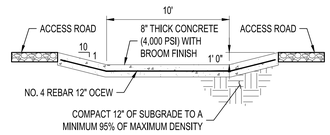
1 RIP-RAP PAD

NTS



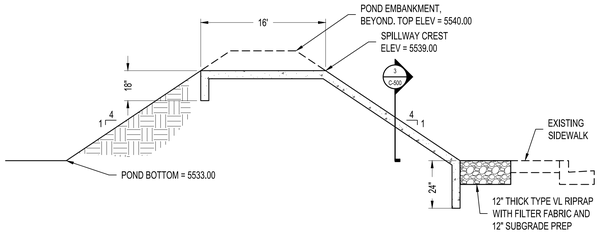
2 AGGREGATE BASE COURSE

NTS



3 EMERGENCY SPILLWAY

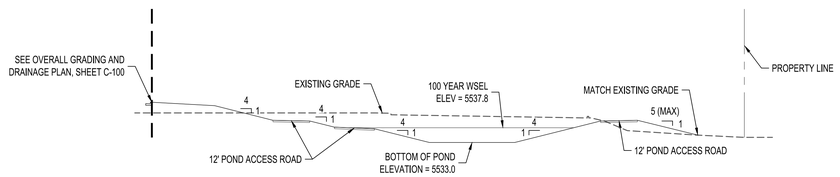
NTS



B EMERGENCY SPILLWAY TYPICAL SECTION B

NTS

POND TABLE						
POND	Q_{in} 100yr-24hr (CFS)	Q_{out} 100yr-24hr (CFS)	V 100yr-24hr (AC-FT)	Bottom Elevation	Top Elevation	WSEL
Existing Primary Pond	48.90	5.80	5.20	5539.00	5545.00	5543.40
Proposed Pond	33.73	0.20	0.10	5533.00	5540.00	5537.80



A TYPICAL POND SECTION A

NTS

LEGEND

- PROPERTY LINE
- 95.40 — PROPOSED SPOT ELEVATION
  - TC=TOP OF CURB
  - FL=FLOW LINE
  - TOC=TOP OF CONCRETE
  - TS=TOP OF SIDEWALK
  - TG=TOP OF GRATE
  - FG=FINISHED GRADE
  - FGH=FINISHED GRADE HIGH
  - FGL=FINISHED GRADE LOW
  - INV=INVERT
- 4960 — EXISTING INDEX CONTOUR
- 4959 — EXISTING INTERMEDIATE CONTOUR
- 4960 — PROPOSED INDEX CONTOUR
- 4959 — PROPOSED INTERMEDIATE CONTOUR
- LIMITS OF POND GRADING
- PROPOSED STORM DRAIN MANHOLE
- RIPRAP COBBLE
- AGGREGATE BASE COURSE ACCESS ROAD
- CONCRETE SPILLWAY

N

20 10 0 20

1"=20'

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CONSTRUCTION DOCUMENTS
MARCH 14, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 14, 2024
PROJECT NO:	K23-001
DRAWN BY:	HG
CHECKED BY:	OB

SHEET TITLE

REGIONAL DETENTION POND MODIFICATIONS

C-500

Farmington Preschool Academy

Tue, 23-Jul-2024 - 2:52 pm, Plotted by: RDELYSER
P:\2024\2123\CD\Plans\General\K2024212_GP01.dwg

SITE LINETYPE LEGEND

- EXISTING 6' HT CHAIN LINK FENCE TO BE DEMOLISHED AND REMOVED IN PHASE 2A.
- EXISTING 6' HT CHAIN LINK FENCE TO BE DEMOLISHED AND REMOVED IN PHASE 1.
- EXISTING 6' HT CHAIN LINK FENCE TO REMAIN.

HATCH LEGEND

- EXISTING ASPHALT TO BE DEMOLISHED
- EXISTING PLAYGROUND TO BE DEMOLISHED
- EXISTING BUILDING TO BE DEMOLISHED
- EXISTING CONCRETE TO BE DEMOLISHED
- EXISTING BUILDING TO REMAIN
- EXISTING LAWN TO REMAIN. SEE KEYED NOTE D26
- CLEAR AND GRUB EXISTING VEGETATION

GENERAL NOTES

A. DEMOLITION SHALL BE EXECUTED CAREFULLY. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MINIMIZE INTERFERENCE TO ADJACENT SCHOOL FUNCTIONS AND PROTECT USERS THEREIN.

B. SALVAGE ITEMS: PRIOR TO CONSTRUCTION, OWNER WILL REMOVE ALL ITEMS TO BE SALVAGED. THIS INCLUDES ALL EQUIPMENT, FURNITURE, MECHANICAL, ELECTRICAL AND SPECIAL SYSTEMS ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY ITEMS REMAINING UNLESS NOTED OTHERWISE.

C. CONTRACTOR SHALL COORDINATE ALL ASSOCIATED PLUMBING, MECHANICAL AND ELECTRICAL DEMOLITION FOR THIS PROJECT. SEE PLUMBING I MECHANICAL / ELECTRICAL DEMOLITION DRAWINGS FOR DEMOLITION WORK ASSOCIATED WITH THEIR RESPECTIVE DISCIPLINES.

D. DEMOLITION DRAWINGS INDICATE THE GENERAL SCOPE OF WORK AT EXISTING BUILDING AND SITE. CONTRACTOR IS RESPONSIBLE TO DEMOLISH AND REMOVE ALL EXISTING BUILDING ELEMENTS REQUIRED TO COMPLETE NEW WORK.CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH SITE. NO ATTEMPT HAS BEEN MADE TO SHOW EACH AND EVERY SURFACE, ELEVATION, DETAIL, ETC. COORDINATE ALL QUESTIONS WITH THE ARCHITECT PRIOR TO PROCEEDING.

E. FEATURES TO BE DEMOLISHED.

F. ALL DEMOLITION WORK SHALL BE COORDINATED WITH PROJECT PHASING AND NEW CONSTRUCTION PLANS.

G. UTILITIES: LOCATE EXISTING ACTIVE UTILITIES AND DETERMINE REQUIREMENTS FOR DISCONNECTION, RECONNECTION, REROUTING OR CAPPING. CONTRACTOR SHALL PROTECT UTILITIES DESIGNATED TO REMAIN FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES TO REMAIN DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL PAY FOR AND COORDINATE WITH LOCAL UTILITY COMPANIES FOR UTILITY DISCONNECT, RECONNECT, TIE-IN, DEMOLITION WORK, AND CONSTRUCTION AS REQUIRED. CONTRACTOR SHALL COORDINATE ANY UTILITY INTERRUPTIONS WITH OWNER A MINIMUM OF 10 DAYS IN ADVANCE. FOR INFORMATION ON UTILITIES SEE SITE SURVEY SHEET AND SITE UTILITY, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS.

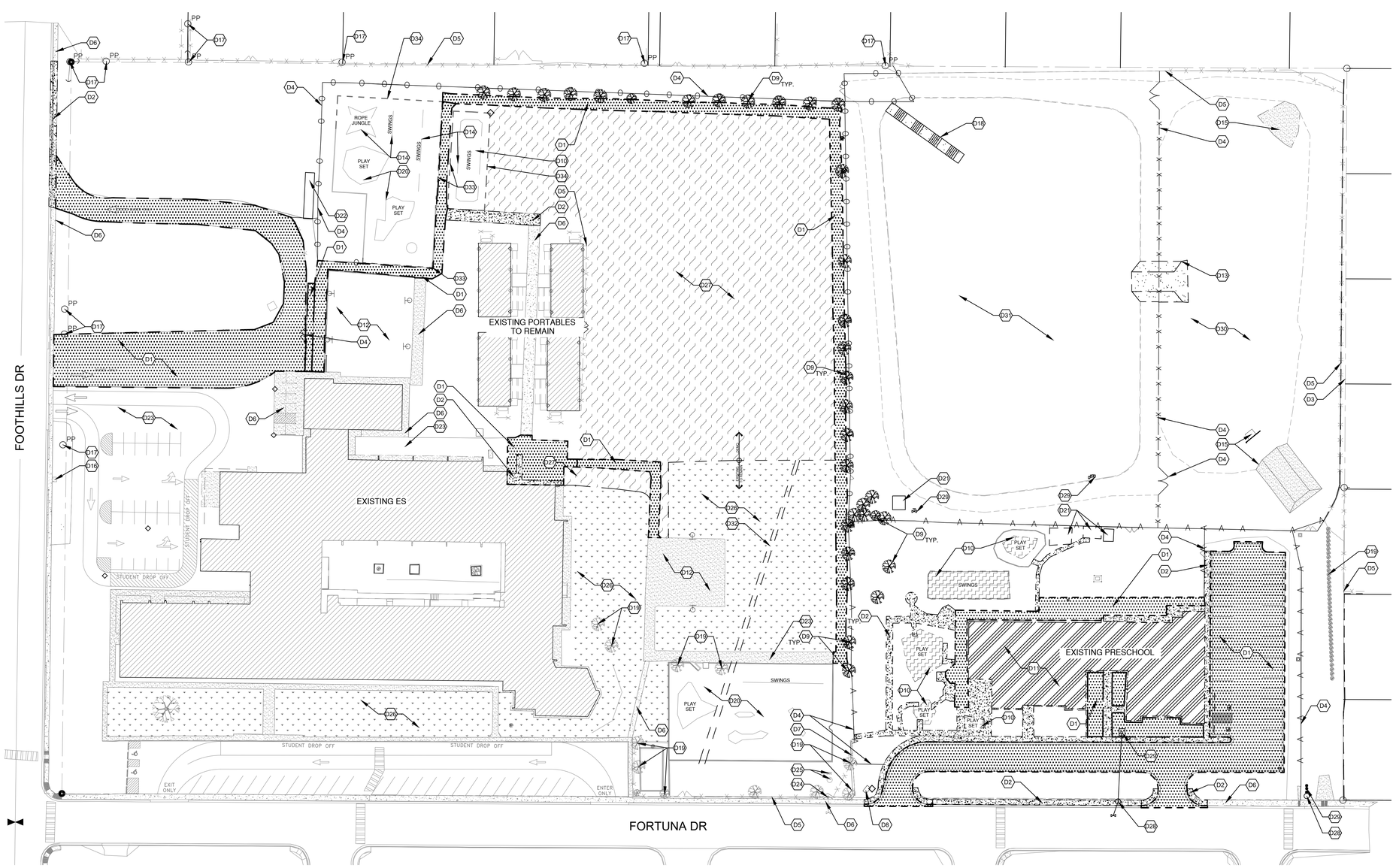
H. CONTRACTOR IS RESPONSIBLE TO RECYCLE OR SALVAGE AS MUCH OF THE BUILDING MATERIAL TO BE DEMOLISHED AS POSSIBLE. COORDINATE WITH THE OWNER AND ARCHITECT PRIOR TO START OF BUILDING DEMOLITION.

I. A PRE-DEMOLITION COORDINATION MEETING WITH THE ARCHITECT, CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERS, AS WELL AS THE OWNER IS REQUIRED. NO EXCEPTIONS.

O. EXISTING TREES AND LANDSCAPING ARE TO REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROTECT THESE ITEMS DURING DEMOLITION AND CONSTRUCTION. ANY DAMAGED LANDSCAPING SHALL BE REPLACED AT NO COST TO THE OWNER. AT AREAS OF NEW WORK, REMOVE TREES, SHRUBS, AND BRUSH AS REQUIRED TO COMPLETE SITE GRADING AND BUILDING CONSTRUCTION.

P. CONTRACTOR SHALL PRESERVE AND PROTECT SITE FEATURES, UTILITIES, AND STRUCTURES DESIGNATED TO REMAIN. ANY DAMAGE TO ITEMS DESIGNATED TO REMAIN DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

Q. PATCH AND REPAIR ALL ASPHALT, CONCRETE, SOD, OTHER SITE ELEMENTS AS NECESSARY AT ALL AREAS OF NEW WORK AND UTILITY TRENCHING.



01 ASD-100 OVERALL SITE DEMOLITION PLAN
1" = 40'-0"

KEYED NOTES

D1 DEMOLISH AND REMOVE EXISTING ASPHALT PAVEMENT AS REQUIRED TO COMPLETE NEW WORK. SEE GRADING PLANS
D2 DEMOLISH AND REMOVE EXISTING CONCRETE PAVEMENT AS REQUIRED TO COMPLETE NEW WORK.
D3 PROPERTY LINE
D4 DEMOLISH AND REMOVE EXISTING 6' HT CHAIN LINK FENCE AND FOOTINGS. SEE SITE LINETYPE LEGEND FOR PHASE.
D5 EXISTING 6' HT CHAIN LINK FENCE AND GATE TO REMAIN.
D6 EXISTING CONCRETE PAVEMENT TO REMAIN.
D7 EXISTING CONCRETE WALL TO REMAIN.
D8 EXISTING BLOCK RETAINING WALL TO BE DEMOLISHED AND REMOVED.
D9 EXISTING TREES TO BE REMOVED AS REQUIRED TO COMPLETE NEW WORK.
D10 EXISTING PLAYGROUND TO BE DEMOLISHED, EQUIPMENT TO OWNER.
D11 DEMOLISH AND REMOVE EXISTING BUILDING IN PHASE 2A. SEE G-006 OVERALL PHASING PLAN.
D12 EXISTING BASKETBALL COURT TO REMAIN.
D13 DEMOLISH AND REMOVE EXISTING STORM DRAIN CONCRETE INFRASTRUCTURE. SEE CIVIL.
D14 EXISTING PLAYGROUND TO BE RELOCATED. COORDINATE WITH OWNER(S) CONSULTANT FOR PLAYGROUND EQUIPMENT.
D15 EXISTING STORM DRAIN LINE AND CONCRETE INFRASTRUCTURE TO REMAIN. SEE CIVIL
D16 EXISTING FIRE HYDRANT TO REMAIN. SEE CIVIL
D17 EXISTING POWER POLE TO REMAIN. SEE ELECTRICAL FOR INFORMATION.
D18 DEMOLISH AND REMOVE EXISTING STAIR AND HANDRAIL.
D19 EXISTING TREES TO REMAIN.
D20 EXISTING PLAYGROUND TO REMAIN.
D21 EXISTING PORTABLE SHED TO BE REMOVED AND SALVAGED BY OWNER.
D22 EXISTING CONEX TO BE RELOCATED. COORDINATE WITH OWNER.
D23 EXISTING ASPHALT PAVEMENT TO REMAIN.
D24 EXISTING WATER METER TO REMAIN.
D25 EXISTING IRRIGATION EQUIPMENT TO REMAIN PROTECTED AND OPERATIONAL DURING THE COURSE OF CONSTRUCTION.
D26 EXISTING TURF TO REMAIN PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL ADJUST OR REPLACE EXISTING HEADS IN THIS AREA AS NECESSARY TO ACHIEVE HEAD TO HEAD COVERAGE. REPAIR TURF AREAS DAMAGED BY TRENCHING AND OTHER CONSTRUCTION OPERATIONS IN THIS AREA ACCORDING TO PROJECT SPECIFICATIONS.
D27 CLEAR AND GRUB EXISTING VEGETATION.
D28 REMOVE WATER METER. CONTACT THE OPERATIONS & MAINTENANCE CONTRACTOR FOR THE CITY OF FARMINGTON'S FOR ACCESS TO METER-CAN.
D29 REMOVE IRRIGATION EQUIPMENT. CAP AND ABANDON MAINLINE AND LATERALS IN PLACE. FILL AND COMPACT VOIDS CREATED BY EQUIPMENT REMOVAL WITH CLEAN FILL. SALVAGE EQUIPMENT TO OWNER.
D30 EXISTING PRIMARY POND TO REMAIN. SEE CIVIL.
D31 EXISTING DETENTION POND TO BE RELOCATED. SEE SHEET C-500.
D32 APPROXIMATE PATH OF NEW SEWER CONNECTION FROM NEW BUILDING. COORDINATE FINAL ROUTING WITH CIVIL. PATCH AND REPAIR EXISTING ELEMENTS: TURF, ASPHALT, PLAYGROUND, ETC. TO REMAIN.
D33 DEMOLISH AND REMOVE PORTION OF CURB. SEE NEW SITE PLAN FOR EXTENT.
D34 EXISTING CHAINLINK GATE TO BE SALVAGED AND RE-USED. SEE SITE PLAN FOR NEW LOCATION.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED ARCHITECT

ARCHITECT ENGINEER

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5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	XT
CHECKED BY:	JT

SHEET TITLE

OVERALL SITE DEMOLITION PLAN

ASD-100

Farmington Preschool Academy

FENCING LEGEND

- A A A A — 6' HT DESIGNMASTER CLASSIC FENCING SYSTEM OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT.
- B B B B — 6' HT CHAIN LINK FENCE. SEE DETAIL A1/AS-131
- C C C C — 4' HT DESIGNMASTER CLASSIC FENCING SYSTEM OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT.
- X X X X — EXISTING 6' HT CHAIN LINK FENCE TO REMAIN.

HATCH LEGEND

- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- NEW BUILDING
- EXISTING BUILDING
- TURF
- COLOR INTEGRAL CONCRETE
- SANDBOX
- CONCRETE PAVING
- NATIVE REVEGTATION
- NEW TURF GRASS, SEE LANDSCAPE
- EXISTING GRASS
- GRAVEL MULCH
- PLAYGROUND SURFACING: ENGINEERED WOOD FIBER MULCH

GENERAL NOTES

A. SUB GRADE PREPARATION AND SOIL COMPACTION AT ALL CONCRETE WORK SHALL COMPLY WITH REQUIREMENTS NOTED ON CIVIL DRAWINGS AND GEOTECHNICAL REPORT.

B. PROVIDE BROOM FINISH ON CONCRETE SIDEWALK.

C. VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.

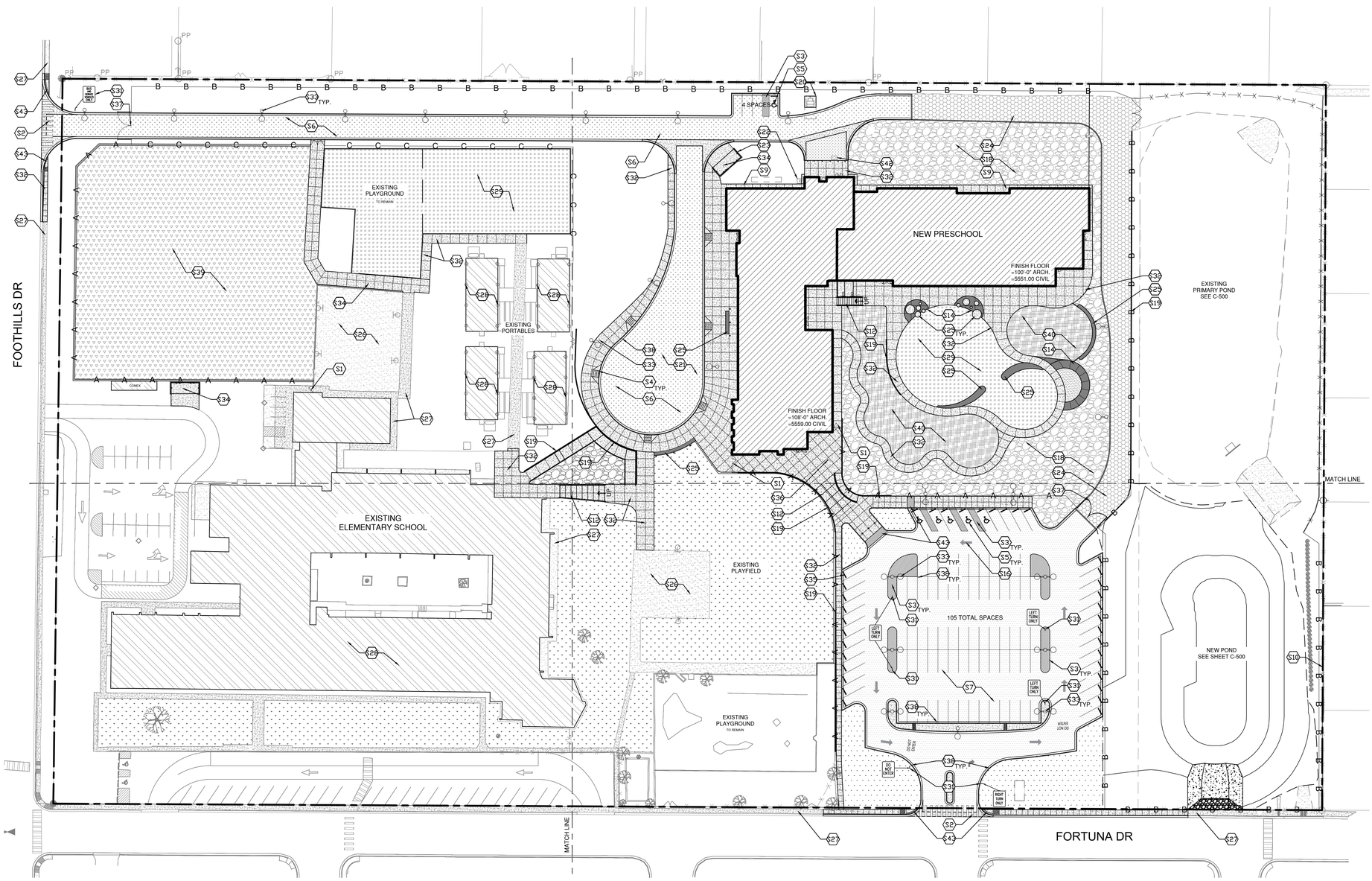
D. FOR INFORMATION ON UTILITIES SEE SITE SURVEY SHEET G-002, AND SITE UTILITY, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS.

E. CONTRACTOR SHALL PAY FOR AND COORDINATE WITH LOCAL UTILITY COMPANIES FOR ALL UTILITY DISCONNECT, RECONNECT, AND DEMO WORK.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR PERMIT FEES ASSOCIATED WITH ENVIRONMENTAL PROTECTION AGENCY & REQUIREMENT OF STORM WATER POLLUTION PREVENTION PLAN (SWPPP). COORDINATE WITH ALL REGULATORY AUTHORITIES REGARDING THIS ITEM.

KEYED NOTES

S1	6'-0" HIGH X 4'-0" WIDE DESIGNMASTER SWINGING GATE. SEE SITE DETAIL A4/AS-131.
S2	18" PAINTED CROSSWALK STRIPES AT 6' WIDE @ 36" O.C. COLOR (WHITE)
S3	4" WIDE PAINTED PARKING STRIPS.
S4	ACCESSIBLE RAMP "TYPE B". SEE SITE DETAIL B1/AS-131.
S5	ACCESSIBLE PARKING SYMBOL. SEE SITE DETAIL D2/AS-130.
S6	ASPHALT PAVING. HEAVY DUTY. SEE CIVIL.
S7	ASPHALT PAVING. LIGHT DUTY. SEE CIVIL.
S8	LANDSCAPE AREA. TURN DOWN CONCRETE EDGE AT ADJACENT CONCRETE PAVING PERIMETER PER DETAIL. SEE LANDSCAPE.
S9	CONCRETE MOW STRIP WITH TURNDOWN EDGE. SEE SITE DETAIL A3 AND A4/AS-130.
S10	PROPERTY LINE.
S12	CONCRETE SITE STAIRS. SEE ENLARGED PLANS AND SITE DETAILS.
S14	COLOR INTEGRAL CONCRETE SIDEWALK. SEE DETAIL A4/AS-130.
S16	PAINTED DIRECTIONAL ARROW. SEE SITE DETAIL D3/AS-130.
S18	GRAVEL MULCH. SEE LANDSCAPE DRAWINGS.
S19	CONCRETE RETAINING WALL. SEE ENLARGED PLANS AND SITE DETAILS.
S20	PAD MOUNTED TRANSFORMER. SEE ELECTRICAL
S21	BUS TURN AROUND. VERIFY RADIUS DIMENSIONS OF TURN AROUND WITH OWNER AND ARCHITECT, PRIOR TO CONSTRUCTION OF BUS LOOP.
S22	GAS METER, SEE PLUMBING SITE PLAN.
S23	DUMPSTER ENCLOSURE, SEE SITE DETAIL D2/AS-131.
S24	SERVICE ACCESS ROAD, SEE CIVIL.
S25	CONCRETE BENCH, SEE ENLARGE PLAN AND SITE DETAILS.
S26	EXISTING BASKETBALL COURT TO REMAIN.
S27	EXISTING CONCRETE SIDEWALK TO REMAIN.
S28	EXISTING BUILDINGS TO REMAIN.
S29	NEW PLAYGROUND AREA WITH TURNDOWN OR CONCRETE EDGE.
S31	POLE MOUNTED SIGN. SEE SITE DETAIL B1/AS-132.
S32	CONCRETE SIDEWALK. SEE SITE DETAIL A4/AS-130. TURN DOWN EDGE AT ALL EXPOSED EDGES PER DETAIL A3/AS-130.
S33	SITE LIGHTING. SEE ELECTRICAL.
S34	HEAVY DUTY CONCRETE APRON AT DUMPSTER ENCLOSURE AREA.
S35	CONCRETE PARKING BUMPER. SEE DETAIL A5/AS-130.
S36	FLAG POLE. SEE DETAIL D1/AS-130.
S37	6' DESIGNMASTER SWING GATE.SEE ENLARGED PLANS.
S38	CONCRETE CURB AND GUTTER. SEE CIVIL.
S39	TURF GRASS PLAY FIELD AND IRRIGATION. SEE LANDSCAPE.
S40	ARTIFICIAL TURF, SEE LANDSCAPE AND SITE DETAILS.
S41	ACCESSIBLE RAMP "TYPE D", SEE SITE DETAIL B2/AS-131.
S42	GREASE INTERCEPTOR (BELOW GRADE), SEE PLUMBING.
S43	DOMED. DETECTABLE WARNING SURFACE AT RAMP.



A1 / AS-100 OVERALL SITE PLAN
1" = 40'-0"

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
REGISTERED ARCHITECT

ARCHITECT ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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PROJECT NO:	K23-001
DRAWN BY:	XT
CHECKED BY:	JT

SHEET TITLE
OVERALL SITE PLAN

AS-100

Farmington Preschool Academy

FENCING LEGEND

- A A A A — 6' HT DESIGNMASTER CLASSIC FENCING SYSTEM OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT.
- B B B B — 6' HT CHAIN LINK FENCE. SEE DETAIL A1/AS-131
- C C C C — 4' HT DESIGNMASTER CLASSIC FENCING SYSTEM OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT.
- X X X X — EXISTING 6' HT CHAIN LINK FENCE TO REMAIN.

HATCH LEGEND

- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- NEW BUILDING
- EXISTING BUILDING
- TURF
- COLOR INTEGRAL CONCRETE
- SANDBOX
- CONCRETE PAVING
- NATIVE REVEGTATION
- NEW TURF GRASS, SEE LANDSCAPE
- EXISTING GRASS
- GRAVEL MULCH
- PLAYGROUND SURFACING: ENGINEERED WOOD FIBER MULCH

GENERAL NOTES

A. SUB GRADE PREPARATION AND SOIL COMPACTION AT ALL CONCRETE WORK SHALL COMPLY WITH REQUIREMENTS NOTED ON CIVIL DRAWINGS AND GEOTECHNICAL REPORT.

B. PROVIDE BROOM FINISH ON CONCRETE SIDEWALK.

C. VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.

D. FOR INFORMATION ON UTILITIES SEE SITE SURVEY SHEET G-002. AND SITE UTILITY, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS.

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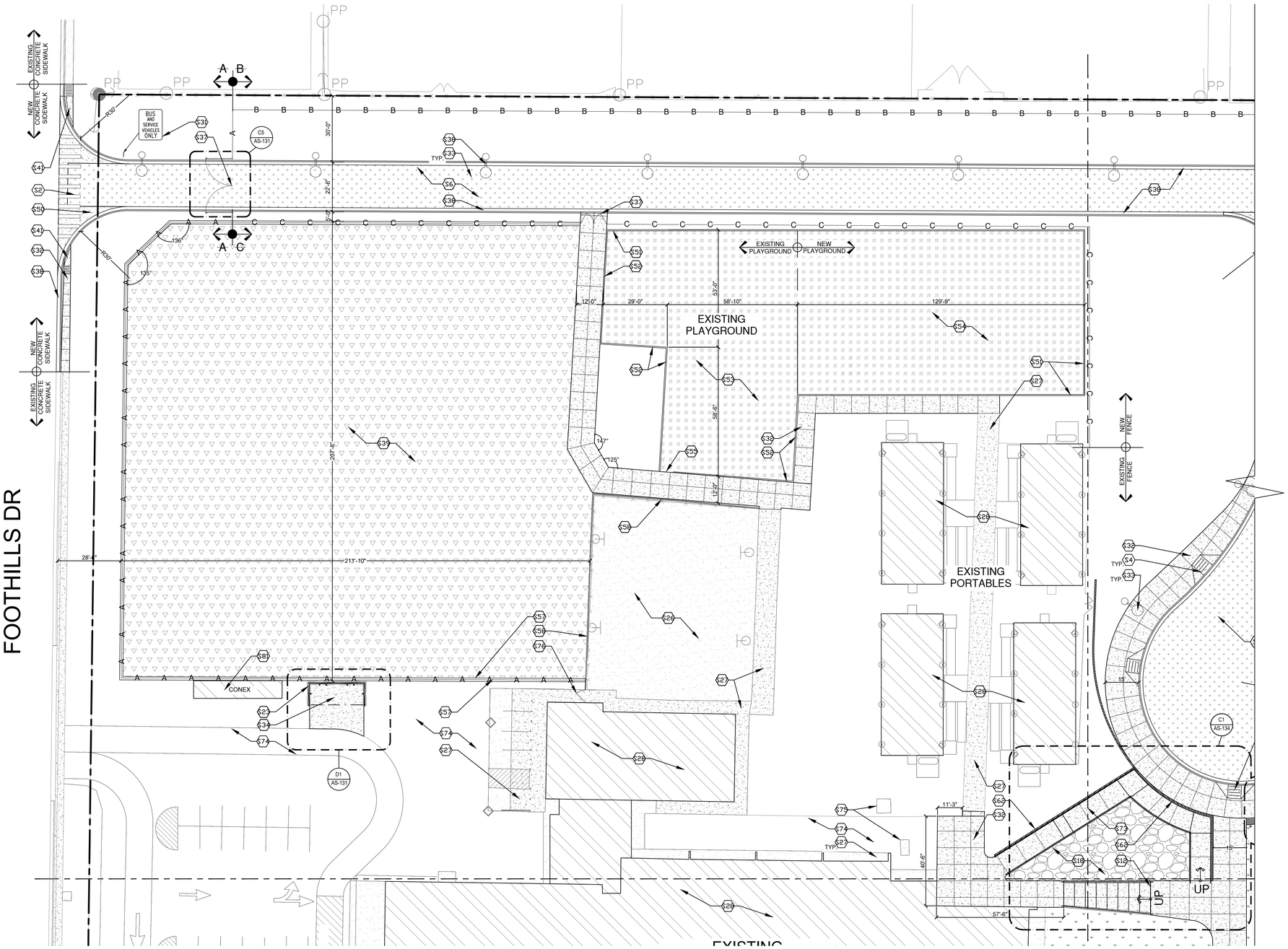

A1 AS-101 ENLARGED SITE PLAN
1" = 20'-0"

KEYED NOTES

- S1 6'-0" HIGH X 4'-0" WIDE OMEGA SWINGING GATE. SEE SITE DETAIL A4/AS-131.
- S2 18" PAINTED CROSSWALK STRIPES AT 6' WIDE @ 36" O.C. COLOR (WHITE)
- S3 4" WIDE PAINTED PARKING STRIPS.
- S4 ACCESSIBLE RAMP "TYPE B". SEE SITE DETAIL B1/AS-131.
- S5 ACCESSIBLE PARKING SYMBOL. SEE SITE DETAIL D2/AS-130.
- S6 ASPHALT PAVING. HEAVY DUTY. SEE CIVIL.
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- S21 BUS TURN AROUND. VERIFY RADIUS DIMENSIONS OF TURN AROUND WITH OWNER AND ARCHITECT, PRIOR TO CONSTRUCTION OF BUS LOOP.
- S22 GAS METER, SEE PLUMBING SITE PLAN.
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- S51 CONCRETE AT PLAYGROUND, SEE DETAIL C3/AS-132.
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- S80 CONCRETE EMERGENCY SPILL WAY, SEE C-500
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SAMJAY L. ENGINEER
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LICENSED PROFESSIONAL ENGINEER

ARCHITECT ENGINEER

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5840 FORTUNA DR.
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CHECKED BY:	JT

SHEET TITLE

ENLARGED SITE PLAN

AS-101

Farmington Preschool Academy

FENCING LEGEND

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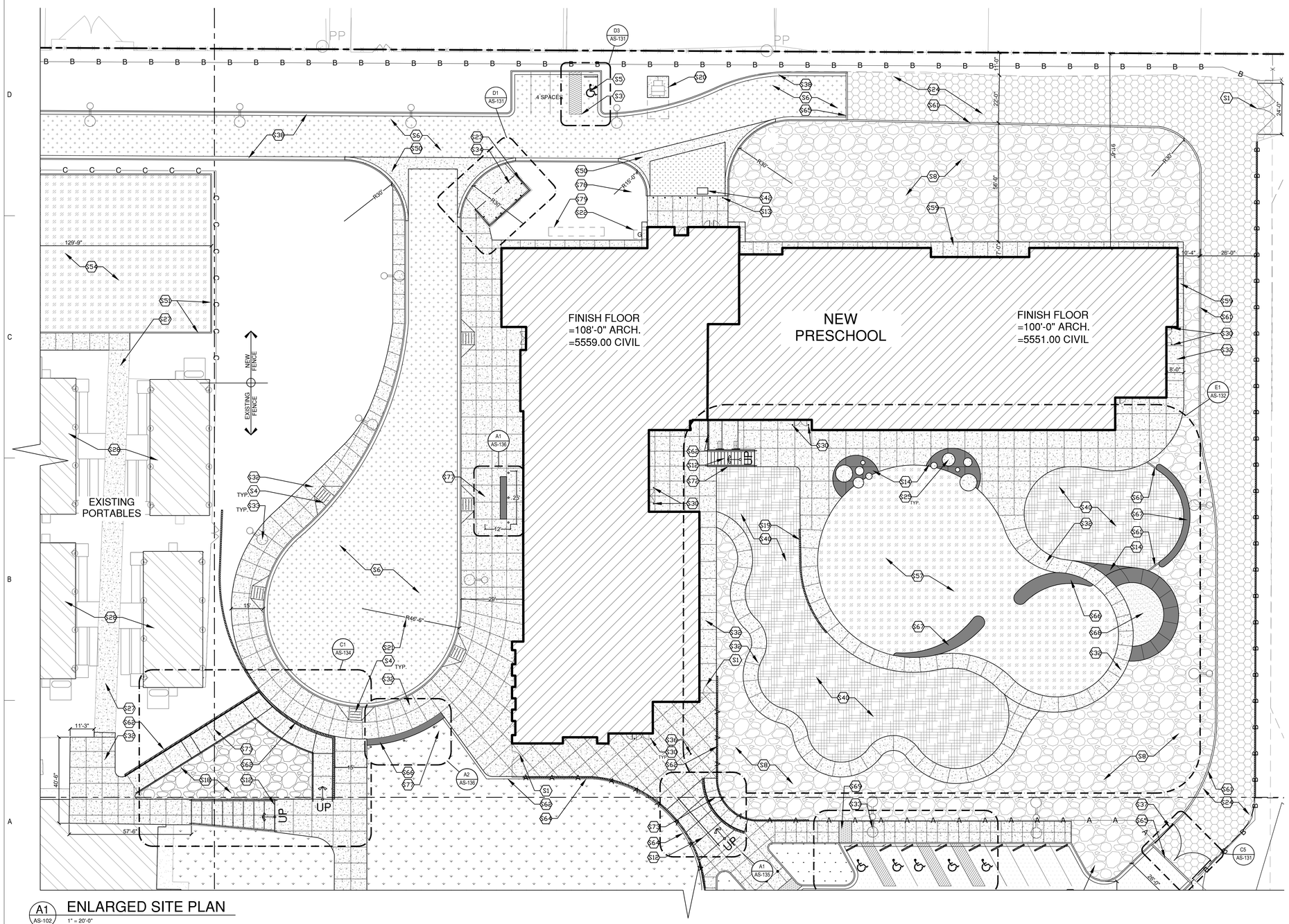

A1 AS-102 ENLARGED SITE PLAN
1" = 20'-0"

KEYED NOTES

- S1 6'-0" HIGH X 4'-0" WIDE OMEGA SWINGING GATE. SEE SITE DETAIL A4/AS-131.
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MARCH 21, 2024

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SHEET TITLE

ENLARGED SITE PLAN

AS-102

Farmington Preschool Academy

FENCING LEGEND

A A A A	6' HT DESIGNMASTER CLASSIC FENCING SYSTEM OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT.
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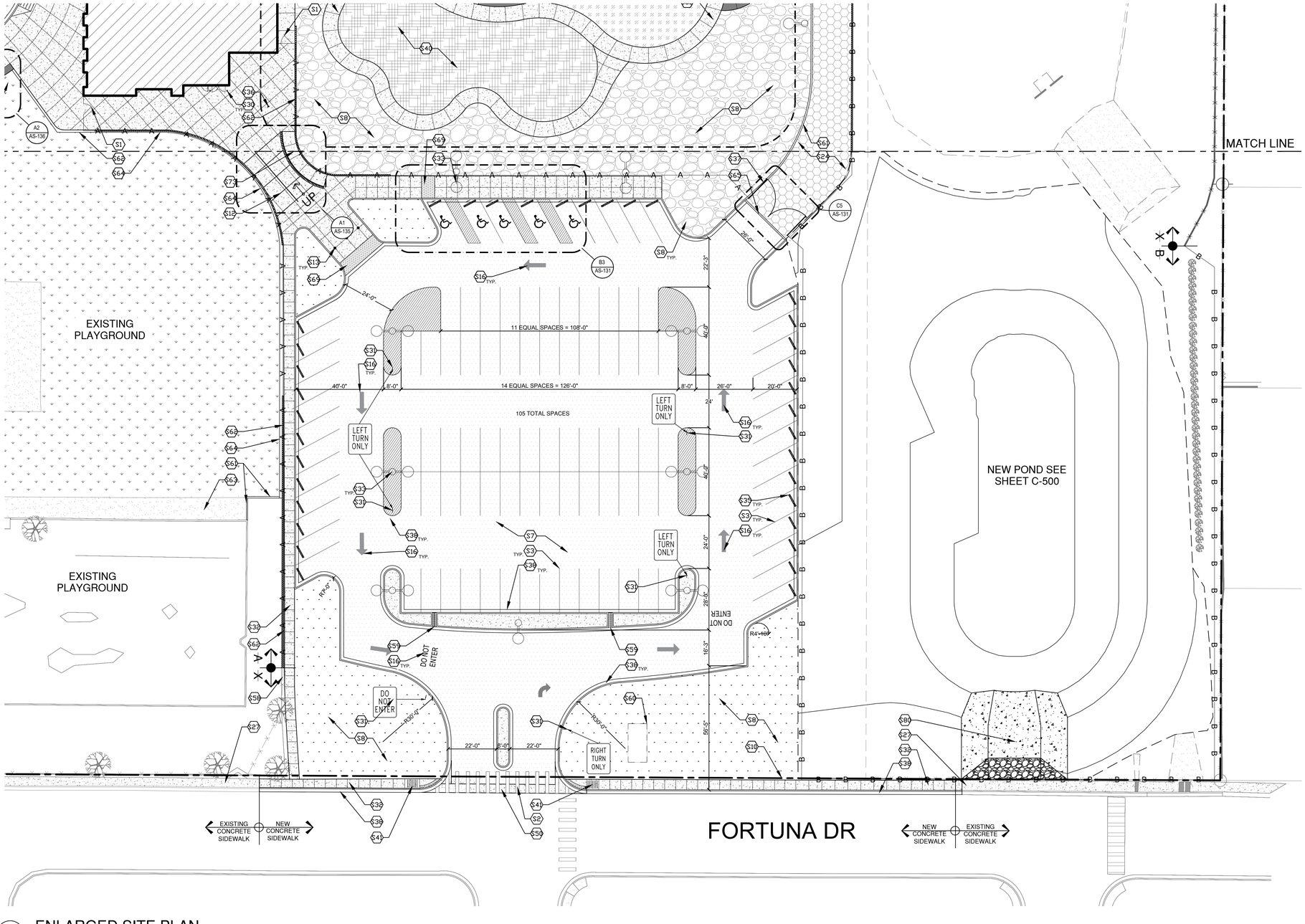

A1 AS-103 ENLARGED SITE PLAN
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S3 4" WIDE PAINTED PARKING STRIPS.
S4 ACCESSIBLE RAMP "TYPE B". SEE SITE DETAIL B1/AS-131.
S5 ACCESSIBLE PARKING SYMBOL. SEE SITE DETAIL D2/AS-130.
S6 ASPHALT PAVING. HEAVY DUTY. SEE CIVIL.
S7 ASPHALT PAVING. LIGHT DUTY. SEE CIVIL.
S8 LANDSCAPE AREA. TURN DOWN CONCRETE EDGE AT ADJACENT CONCRETE PAVING PERIMETER PER DETAIL. SEE LANDSCAPE.
S9 CONCRETE MOW STRIP WITH TURNDOWN EDGE. SEE SITE DETAIL A3 AND A4/AS-130.
S10 PROPERTY LINE.
S11 POND AREA. SEE CIVIL DRAWINGS.
S12 CONCRETE SITE STAIRS. SEE ENLARGED PLANS AND SITE DETAILS.
S13 CONCRETE FILLED STEEL PIPE BOLLARD. SEE DETAIL D4/AS-130.
S14 COLOR INTEGRAL CONCRETE SIDEWALK. SEE DETAIL A4/AS-130.
S16 PAINTED DIRECTIONAL ARROW. SEE SITE DETAIL D3/AS-130.
S18 GRAVEL MULCH. SEE LANDSCAPE DRAWINGS.
S19 CONCRETE RETAINING WALL. SEE ENLARGED PLANS AND SITE DETAILS.
S20 PAD MOUNTED TRANSFORMER. SEE ELECTRICAL
S21 BUS TURN AROUND. VERIFY RADIUS DIMENSIONS OF TURN AROUND WITH OWNER AND ARCHITECT, PRIOR TO CONSTRUCTION OF BUS LOOP.
S22 GAS METER, SEE PLUMBING SITE PLAN.
S23 DUMPSTER ENCLOSURE, SEE SITE DETAIL D2/AS-131.
S24 SERVICE ACCESS ROAD, SEE CIVIL.
S25 CONCRETE BENCH, SEE ENLARGE PLAN AND SITE DETAILS.
S26 EXISTING BASKETBALL COURT TO REMAIN.
S27 EXISTING CONCRETE SIDEWALK TO REMAIN.
S28 EXISTING BUILDINGS TO REMAIN.
S29 NEW PLAYGROUND AREA WITH TURNDOWN OR CONCRETE EDGE.
S30 POST DOORSTOP. SEE SITE DETAIL B1/AS-130.
S31 POLE MOUNTED SIGN. SEE SITE DETAIL B1/AS-132.
S32 CONCRETE SIDEWALK. SEE SITE DETAIL A4/AS-130. TURN DOWN EDGE AT ALL EXPOSED EDGES PER DETAIL A3/AS-130.
S33 SITE LIGHTING. SEE ELECTRICAL AND STRUCTURAL FOR CONCRETE BASE, SHEET S-501.
S34 HEAVY DUTY CONCRETE APRON AT DUMPSTER ENCLOSURE AREA.
S35 CONCRETE PARKING BUMPER. SEE DETAIL A5/AS-130.
S36 FLAG POLE. SEE DETAIL D1/AS-130.
S37 6' OMEGA SWING GATE.SEE ENLARGED PLANS.
S38 CONCRETE CURB AND GUTTER. SEE CIVIL.
S39 TURF GRASS PLAY FIELD AND IRRIGATION. SEE LANDSCAPE.
S40 ARTIFICIAL TURF, SEE LANDSCAPE AND SITE DETAILS.
S41 ACCESSIBLE RAMP "TYPE D", SEE SITE DETAIL B2/AS-131.
S42 GREASE INTERCEPTOR (BELOW GRADE), SEE PLUMBING.
S50 CONCRETE APRON, SEE CIVIL CONTAINMENT WALL.
S51 CONCRETE AT PLAYGROUND, SEE DETAIL C3/AS-132.
S52 EXISTING CONTAINMENT WALL TO REMAIN.
S53 EXISTING PLAYGROUND SURFACING AND EQUIPMENT TO REMAIN. REMOVE AND REPLACE AS REQUIRED FOR EXPANSION OF PLAYGROUND AREA AND RELOCATION OF EQUIPMENT.
S54 NEW PLAYGROUND SURFACING AND EQUIPMENT.
S55 EXISTING ACCESSIBLE RAMP AT PLAYGROUND TO REMAIN.
S56 PLAYGROUND ACCESSIBLE RAMP. SEE DETAIL A4/AS-132.
S57 18" CONCRETE EDGER AT FENCE. SEE DETAILC2/AS-132.
S58 EXISTING RETAINING WALL TO REMAIN.
S59 SIDEWALK CULVERT. SEE CIVIL.
S60 DIGITAL MOVEMENT SIGN, SEE DETAIL_____ AND ELECTRICAL FOR POWER AND DATA REQUIREMENTS.
S61 8" CONCRETE EDGER. SEE DETAIL A3/AS-132.
S62 12" CONCRETE RETAINING WALL AND FENCE. TOP OF WALL VARIES. SEE CIVIL. SEE RETAINING WALL DETAILS ON SHEET AS-132. DETAIL VARIES DEPENDING ON OVERALL WALL HEIGHT.
S63 EXISTING ASPHALT WALL TO REMAIN.
S64 12" CONCRETE MOW CURB W/TURN DOWN EDGE. SEE DETAIL A3 AND A4, SHEET AS-130.
S65 CONCRETE HEADER CURB AT DRIVE. SEE DETAIL A1/AS-130.
S66 CONCRETE SEAT WALL. SEE ENLARGED PLANS AND DETAILS.
S67 PLAYGROUND SEAT WALL. SEE ENLARGED PLANS AND DETAILS.
S68 SANDBOX. SEE ENLARGED PLANS AND DETAILS.
S69 DOMED DETECTABLE WARNING SURFACE AT RAMP.
S72 DIVIDER WALL. SEE ENLARGED PLANS AND DETAILS.
S73 CONCRETE RAMP. SEE ENLARGED PLANS AND DETAILS.
S74 EXISTING ASPHALT TO REMAIN.
S75 EXISTING ELECTRICAL TRANSFORMER AND EQUIPMENT TO REMAIN.
S76 NEW LOCATION OF EXISTING CHAINLINK GATE. SEE DEMO PLAN FOR SALVAGE INFORMATION AND DETAIL A2/AS-131 FOR TYPICAL INSTALLATION REQUIREMENTS.
S77 FREE STANDING CANOPY AND BENCH.
S78 WATER METER.
S79 IRRIGATION SYSTEM. SEE LANDSCAPE.
S80 CONCRETE EMERGENCY SPILL WAY, SEE C-500
S81 EXISTING CONEX. SEE ASD-100 FOR RELOCATION.

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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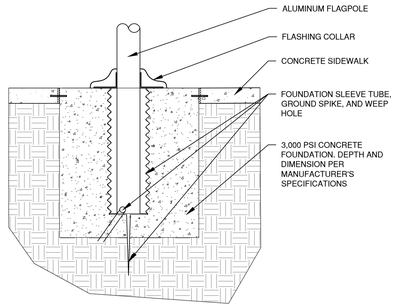
CHECKED BY:	JT

SHEET TITLE

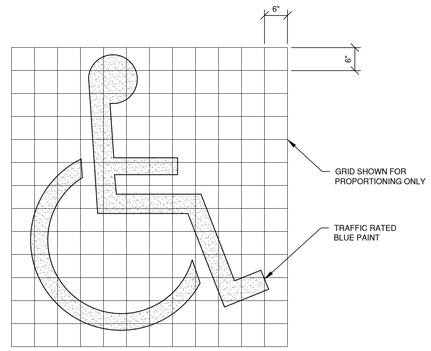
ENLARGED SITE PLAN

AS-103

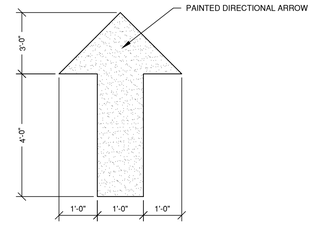
Farmington Preschool Academy



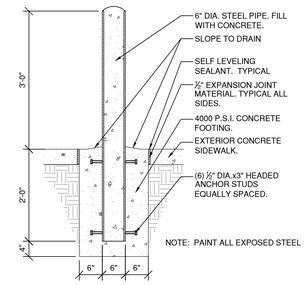
D1 AS-130 FLAG POLE DETAIL
3/4"=1'-0"



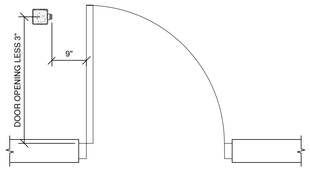
D2 AS-130 ACCESSIBLE PARKING SYMBOL
3/4"=1'-0"



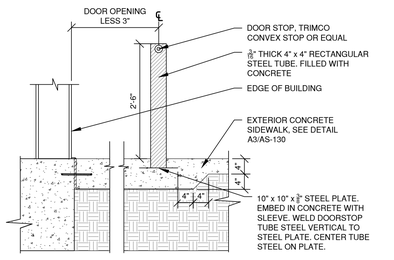
D3 AS-130 DIRECTIONAL ARROW
3/4"=1'-0"



D4 AS-130 CONRETE BOLLARD
3/4"=1'-0"

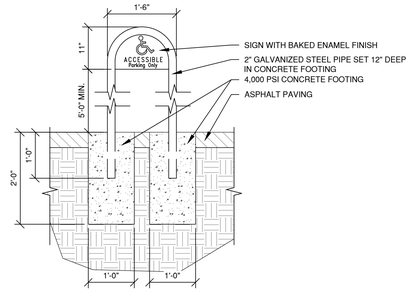


PLAN VIEW

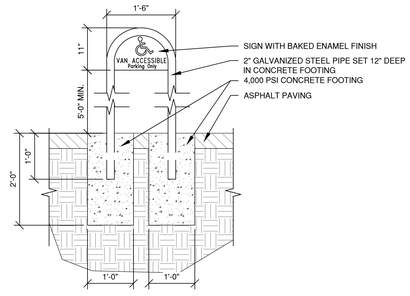


ELEVATION VIEW

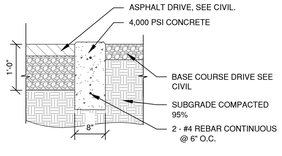
B1 AS-130 POST DOORSTOP
3/4"=1'-0"



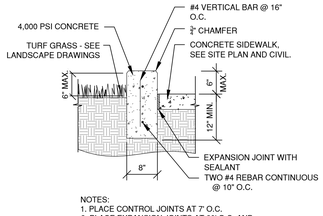
B2 AS-130 ACCESSIBLE PARKING SPACE SIGN
3/4"=1'-0"



B3 AS-130 VAN ACCESSIBLE PARKING SPACE SIGN
3/4"=1'-0"

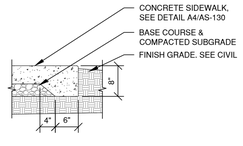


A1 AS-130 CONCRETE HEADER CURB @ DRIVE
3/4"=1'-0"



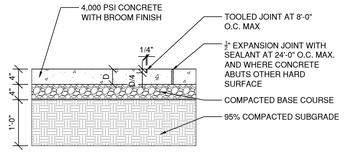
NOTES:
1. PLACE CONTROL JOINTS AT 7' O.C.
2. PLACE EXPANSION JOINTS AT 20' O.C. AND WHERE CURB ABUTS ANOTHER HARD SURFACE

A2 AS-130 CONCRETE HEADER CURB
3/4"=1'-0"



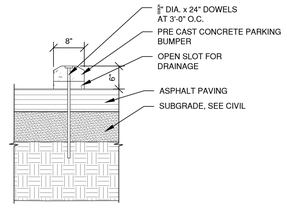
NOTES:
1. TYPICAL AT ALL EXPOSED EDGES OF CONCRETE SIDEWALK UNLESS OTHERWISE NOTED.

A3 AS-130 CONCRETE TURNDOWN EDGE
3/4"=1'-0"



NOTE:
1. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. CONTRACTOR SHALL VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.
3. TURN DOWN EDGE AT ALL EXPOSED EDGES OF CONCRETE. SEE DETAIL A3/AS-130.

A4 AS-130 CONCRETE SIDEWALK
3/4"=1'-0"



A5 AS-130 CONCRETE PARKING BUMPER
3/4"=1'-0"

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REGISTERED ARCHITECT

ARCHITECT ENGINEER

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MARCH 21, 2024

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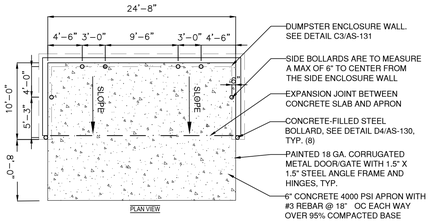
CHECKED BY:	JT

SHEET TITLE
SITE PLAN DETAILS

AS-130

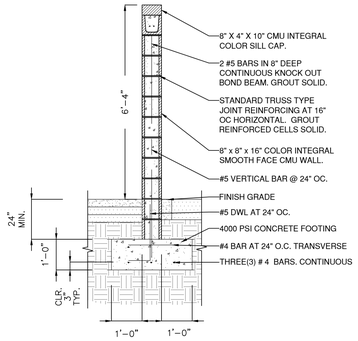
Farmington Preschool Academy



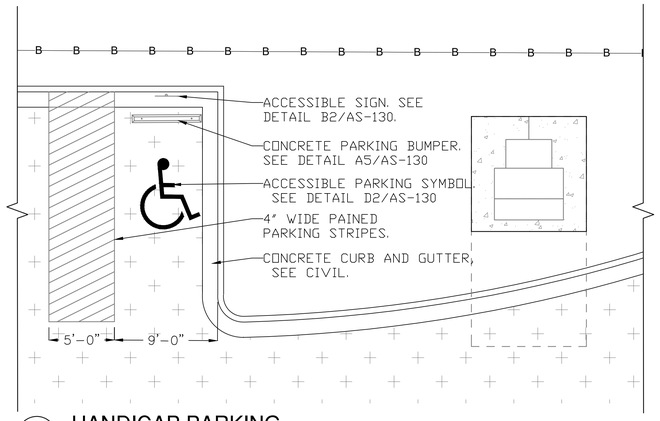
GENERAL NOTES

1. SUBGRADE PREP, BACKFILL, AND COMPACTION SHALL BE PER THE GEOTECHNICAL REPORT'S RECOMMENDATION.
2. GROUT ALL REINFORCED CMU CELLS SOLID.
3. GROUT ALL CMU CELLS BELOW GRADE SOLID.
4. APPLY ANTI GRAFFITI COATING AT ALL EXPOSED CMU.
5. COORDINATE COLORS WITH ARCHITECT. COLOR AND FINISH TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF MANUFACTURER'S STANDARD COLORS AND FINISHES.
6. CONTROL JOINTS @ 10'-0" O.C. MAX EACH DIRECTION.

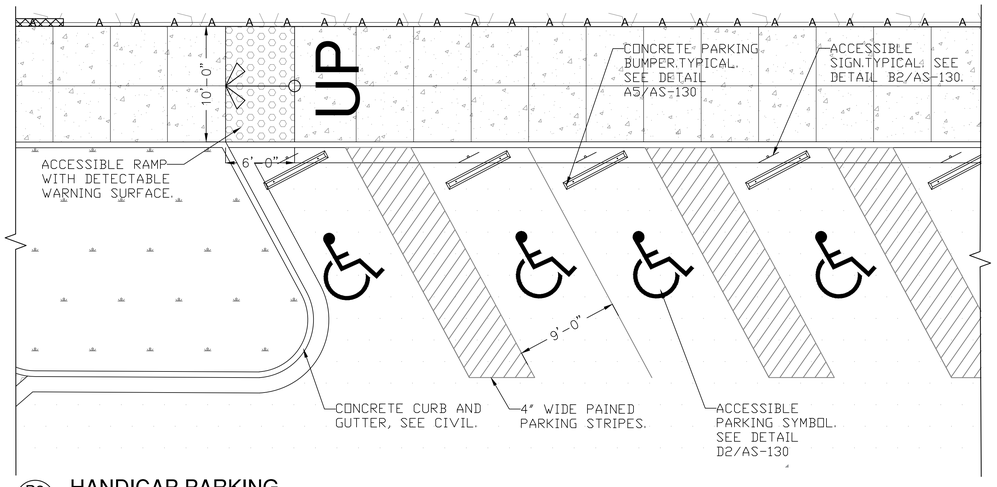
D1 / AS-131 DUMPSTER ENCLOSURE
1/8"=1'-0"



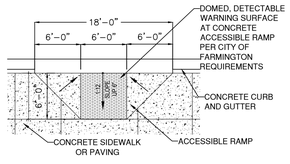
D2 / AS-131 DUMPSTER ENCLOSURE WALL
1/2"=1'-0"



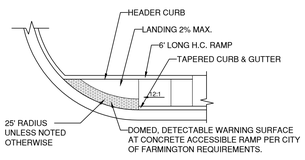
D3 / AS-131 HANDICAP PARKING
3/16"=1'-0"



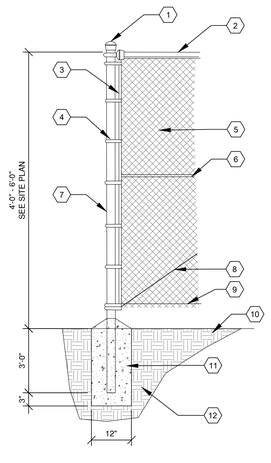
B3 / AS-131 HANDICAP PARKING
3/16"=1'-0"



B1 / AS-131 TYPE "B" ACCESSIBLE RAMP
1/8"=1'-0"



B2 / AS-131 TYPE "D" ACCESSIBLE RAMP
1/8"=1'-0"



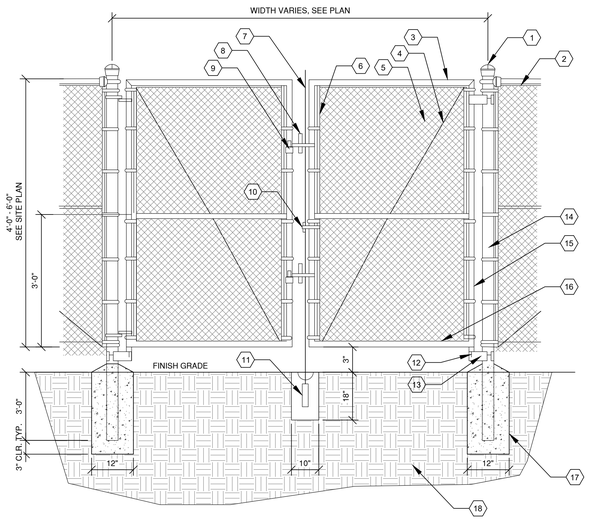
KEYED NOTES

1. POST TOP CAP.
2. 1 5/8" O.D. TOP RAIL.
3. 3/16" X 3/4" X 40" STRETCH BAR.
4. 12 GA. TENSION BANDS - 15" O.C. MAX.
5. 9 GAUGE X 2" GALVANIZED CHAINLINK FENCE - KNUCKLE & KNUCKLE BOTH SIDES.
6. BRACING RAIL, SEE SPECIFICATIONS.
7. CORNER/ END POST, SEE SPECIFICATIONS.
8. TRUSS ROD.
9. BOTTOM TENSION WIRE.
10. FINISH GRADE.
11. 3,000 PSI CONCRETE FOOTING.
12. SEE GEOTECHNICAL REPORT FOR SUBGRADE PREP.

GENERAL NOTES

A. REFERENCE SPECIFICATIONS FOR POST SIZES.
B. TERMINAL POSTS AT GATES SHALL BE SIZED PER THE SPECIFICATIONS. SEE PLAN FOR GATE LOCATIONS AND TYPE.
C. WHENEVER POSSIBLE, ALL BOLTS AND FASTENERS SHALL BE PLACED SO THAT THE END PIECES PROJECT AWAY FROM PLAY AREAS, WALKWAYS, BOLTS, ETC. SO THERE ARE NO PROTRUDING ENDS.
D. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

A1 / AS-131 CHAINLINK FENCE
3/4"=1'-0"



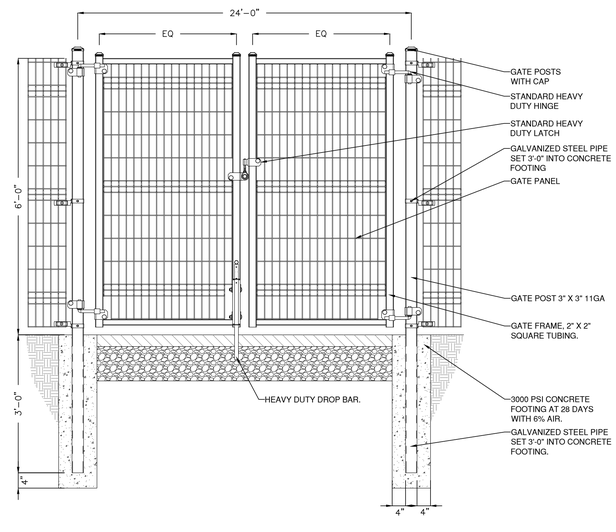
KEYED NOTES

1. POST TOP CAP, BOTH SIDES.
2. CHAIN LINK FENCE, 1" SQUARE GALVANIZED TUBING TOP RAIL WITH 1/8" THICK WALLS.
3. TRUSS ROD.
4. 9 GAUGE X 2" MESH FABRIC - KNUCKLE & KNUCKLE BOTH SIDES.
5. TENSION BAR.
6. PLUNGER ROD.
7. FULCRUM LATCH.
8. FORK CATCH.
9. LOCK KEEPER AND GUIDE.
10. PLUNGER ROD CATCH.
11. STRAIGHT PLUG.
12. HINGE (TOP AND BOTTOM).
13. END POST, SEE SPECIFICATIONS.
14. 1" SQUARE GALVANIZED TUBING SIDE POST WITH 1/8" THICK WALLS.
15. 1" SQUARE GALVANIZED TUBING BOTTOM RAIL WITH 1/8" THICK WALLS.
16. 3,000 PSI CONCRETE FOOTING.
17. SEE GEOTECHNICAL REPORT FOR SUBGRADE PREP.

GENERAL NOTES

A. REFERENCE SPECIFICATIONS FOR POST SIZES.
B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

A2 / AS-131 CHAINLINK DOUBLE SWING GATE
3/4"=1'-0"



A4 / AS-131 GATE ELEVATION
3/4"=1'-0"

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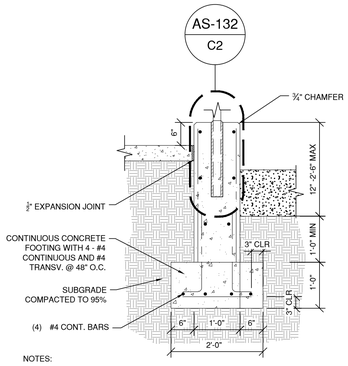
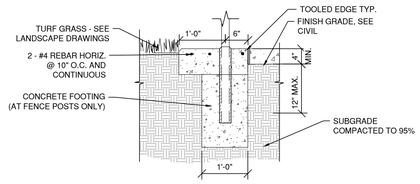
AS-131

Farmington Preschool Academy



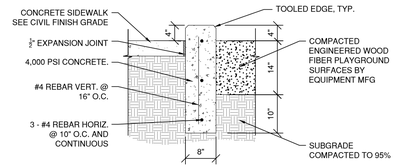
NOTES:
1. CONTROL JOINTS SHALL BE PLACED AT EACH FENCE POST UNLESS NOTED OTHERWISE.
2. EXPANSION JOINTS SHALL BE PLACED AT 20' O.C.
3. REFERENCE PLAN FOR FENCE INFORMATION.

C1 / AS-132 RETAINING WALL DETAIL 12" - 2'-6"
3/4"=1'-0"



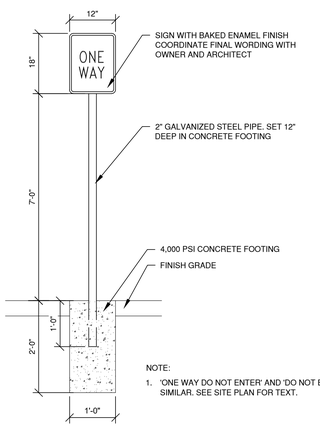
NOTES:
1. CONTROL JOINTS AT 5' O.C.
2. EXPANSION JOINTS SHALL BE PLACED AT 20' O.C. AND WHERE THE EDGER ABUTS ANOTHER HARD SURFACE

C2 / AS-132 CONCRETE EDGER AT FENCE
3/4"=1'-0"



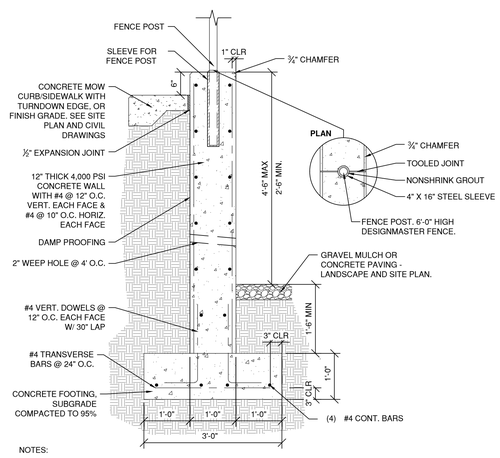
NOTES:
1. PROVIDE CONTROL JOINTS AT 5' O.C. UNLESS NOTE OTHERWISE AND EXPANSION JOINTS @ 20'-0" O.C.
2. CONFIRM REQUIRED DEPTH OF MULCH W/ EQUIPMENT MFG PRIOR TO CONSTRUCTION.

C3 / AS-132 CONCRETE CONTAINMENT WALL AT PLAYGROUND
3/4"=1'-0"



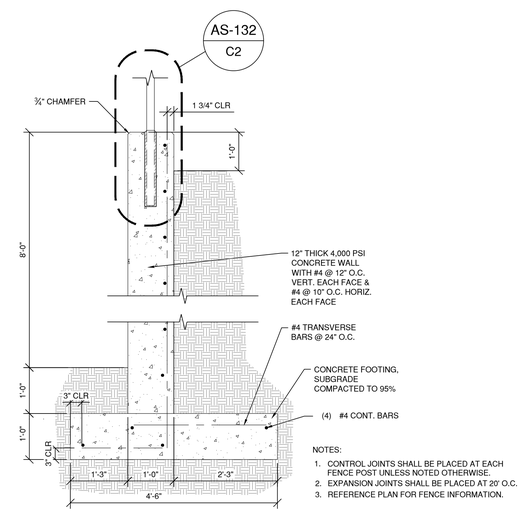
NOTE:
1. 'ONE WAY DO NOT ENTER' AND 'DO NOT ENTER' SIGNS SIMILAR. SEE SITE PLAN FOR TEXT.

B1 / AS-132 POLE MOUNTED SIGN
3/4"=1'-0"



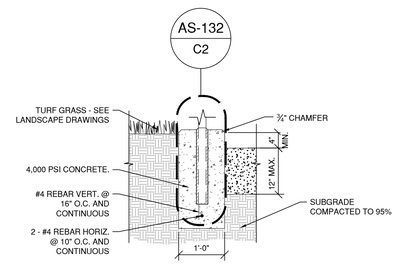
NOTES:
1. CONTROL JOINTS SHALL BE PLACED AT EACH FENCE POST UNLESS NOTED OTHERWISE.
2. EXPANSION JOINTS SHALL BE PLACED AT 20' O.C.
3. REFERENCE PLAN FOR FENCE INFORMATION.

B2 / AS-132 RETAINING WALL 2'-6" - 4'-0"
3/4"=1'-0"



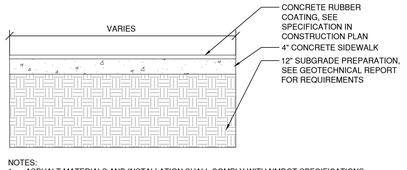
NOTES:
1. CONTROL JOINTS SHALL BE PLACED AT EACH FENCE POST UNLESS NOTED OTHERWISE.
2. EXPANSION JOINTS SHALL BE PLACED AT 20' O.C.
3. REFERENCE PLAN FOR FENCE INFORMATION.

B3 / AS-132 RETAINING WALL DETAIL 4'-0" - 6'-0"
3/4"=1'-0"



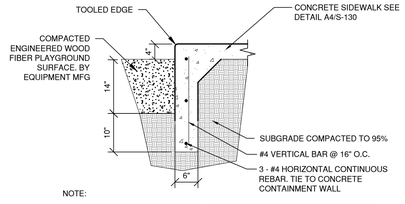
NOTES:
1. PROVIDE CONTROL JOINTS AT 5' O.C. UNLESS NOTE OTHERWISE AND EXPANSION JOINTS @ 20'-0" O.C.
2. SEE CIVIL DRAWINGS FOR WALL HEIGHTS.

B4 / AS-132 RETAINING WALL DETAIL 12" MAX
3/4"=1'-0"



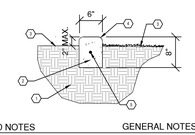
NOTES:
1. ASPHALT MATERIALS AND INSTALLATION SHALL COMPLY WITH NMDOT SPECIFICATIONS.
2. SUBGRADE PREP SHALL COMPLY WITH NMDOT SPECIFICATIONS.
3. FINISHING WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.

A1 / AS-132 COATED CONCRETE DETAIL
3/4"=1'-0"



NOTE:
1. CONFIRM REQUIREMENT DEPTH OF MULCH WITH EQUIPMENT MFG PRIOR TO CONSTRUCTION.

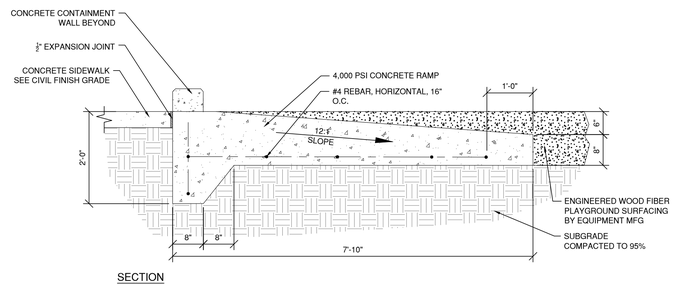
A3 / AS-132 TURNDOWNEDGE AT PLAYGROUND
3/4"=1'-0"



KEYED NOTES
1. SUBGRADE COMPACTED TO 95%.
2. 4000 PSI CONCRETE.
3. FINISH GRADE.
4. TOOLED EDGE.
5. #4 CONT.

GENERAL NOTES
A. CONTROL JOINTS @ 5' O.C.
B. EXD 20' O.C.

A3 / AS-132 6" CONCRETE EDGER
3/4"=1'-0"



SECTION

A4 / AS-132 ACCESSIBLE RAMP @ PLAYGROUND
3/4"=1'-0"

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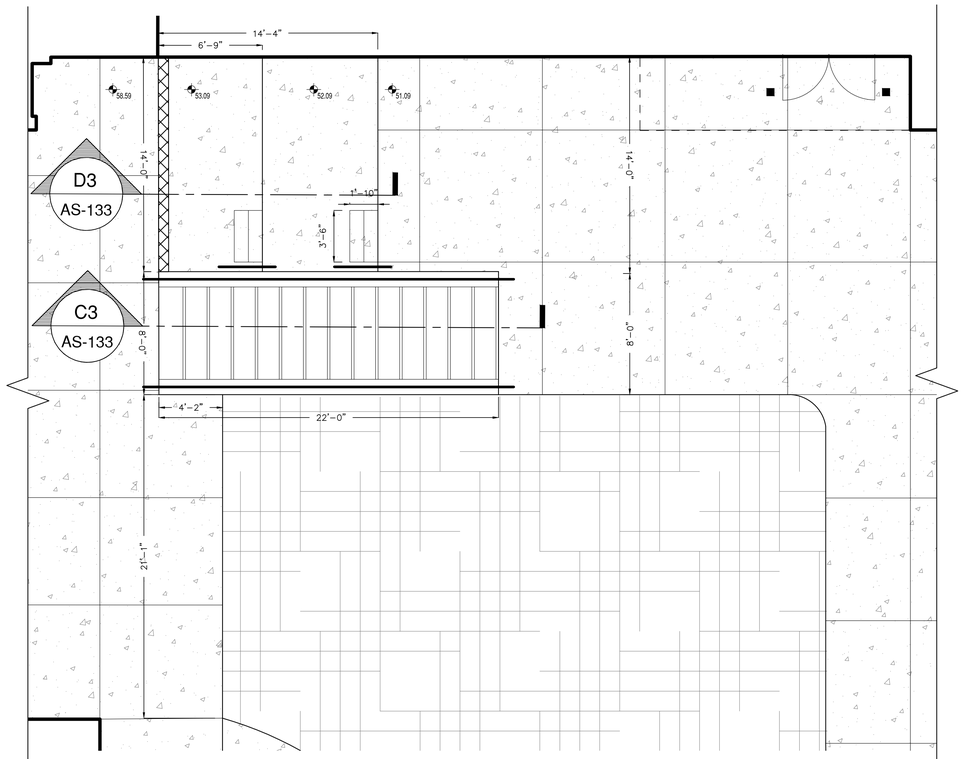
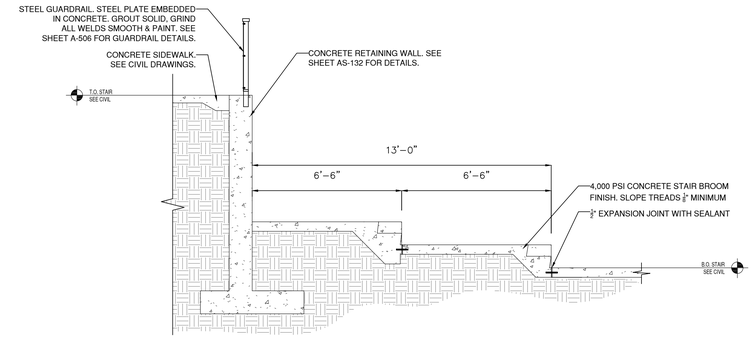
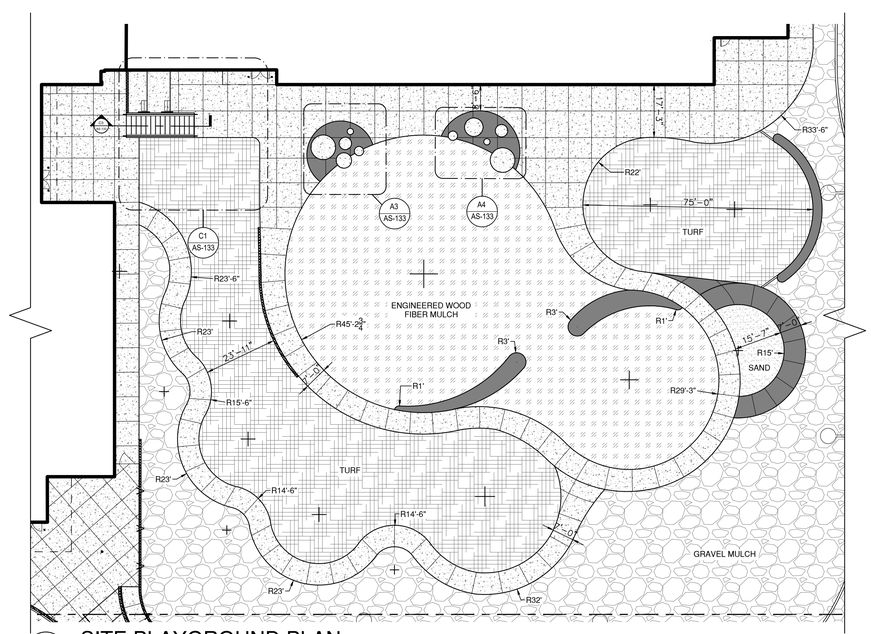
AS-132



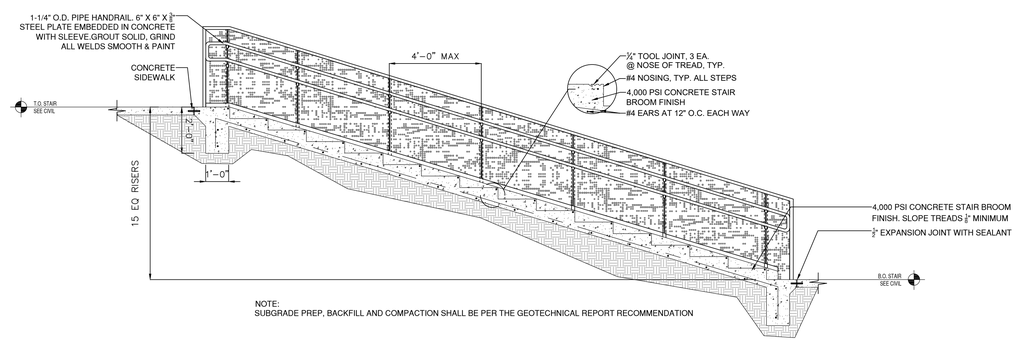
C1 AS-133 EMBEDED PLAYGROUND EQUIPMENT
1/4"=1'-0"



C3 AS-133 STAIR SECTION
3/8"=1'-0"

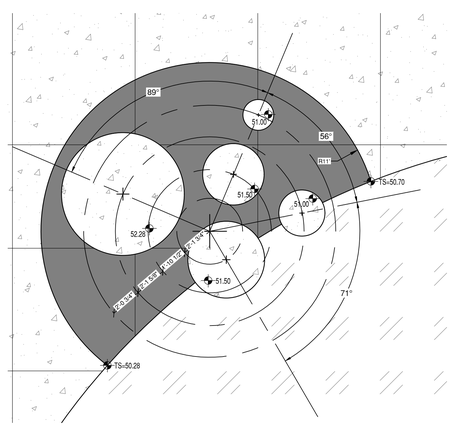


A1 AS-133 SITE PLAYGROUND PLAN
1"=20'-0"

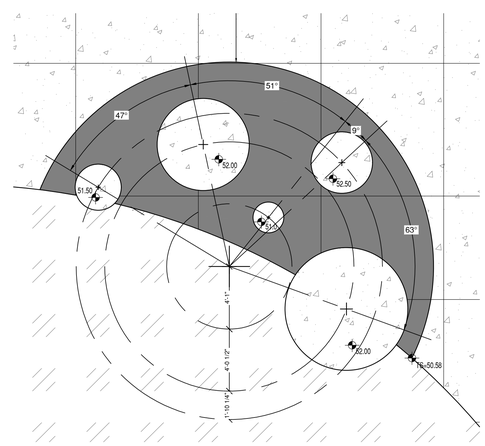


NOTE:
SUBGRADE PREP, BACKFILL AND COMPACTION SHALL BE PER THE GEOTECHNICAL REPORT RECOMMENDATION

C3 AS-133 STAIR SECTION
3/8"=1'-0"



A3 AS-133 CONCRETE BENCH - LEFT
1/4" = 1'-0"



A4 AS-133 CONCRETE BENCH - RIGHT
1/4"=1'-0"

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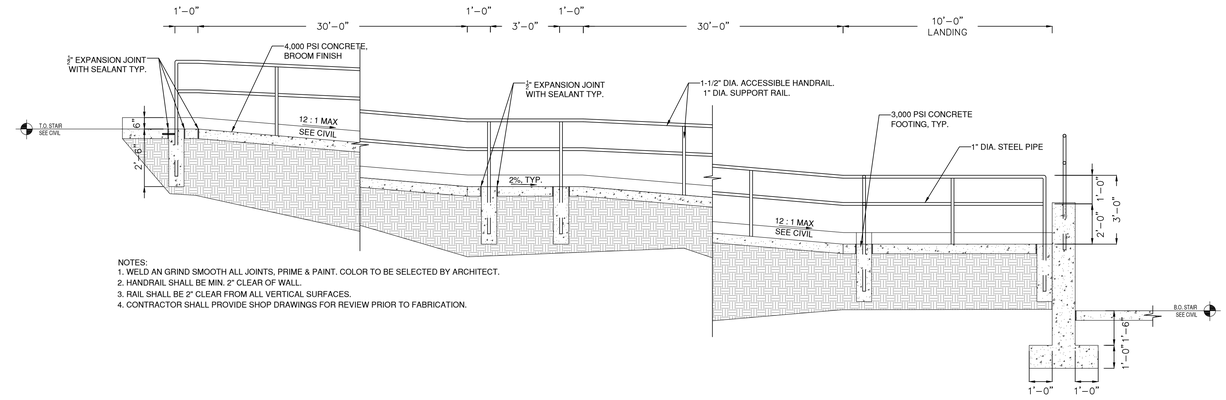
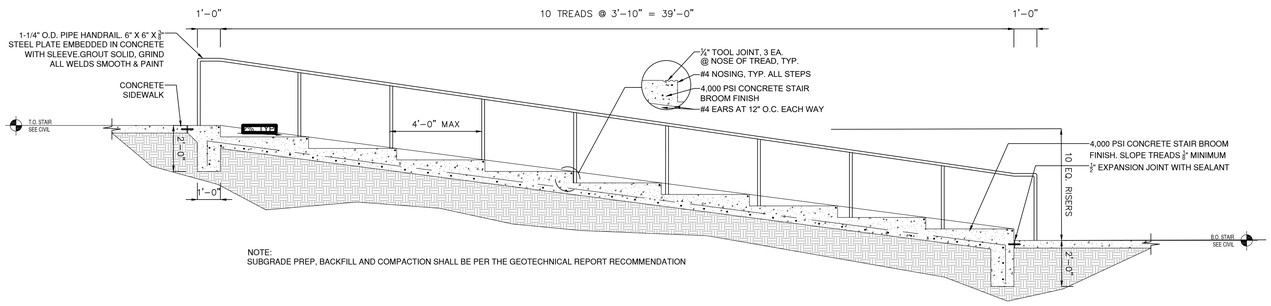
AS-133

Farmington Preschool Academy



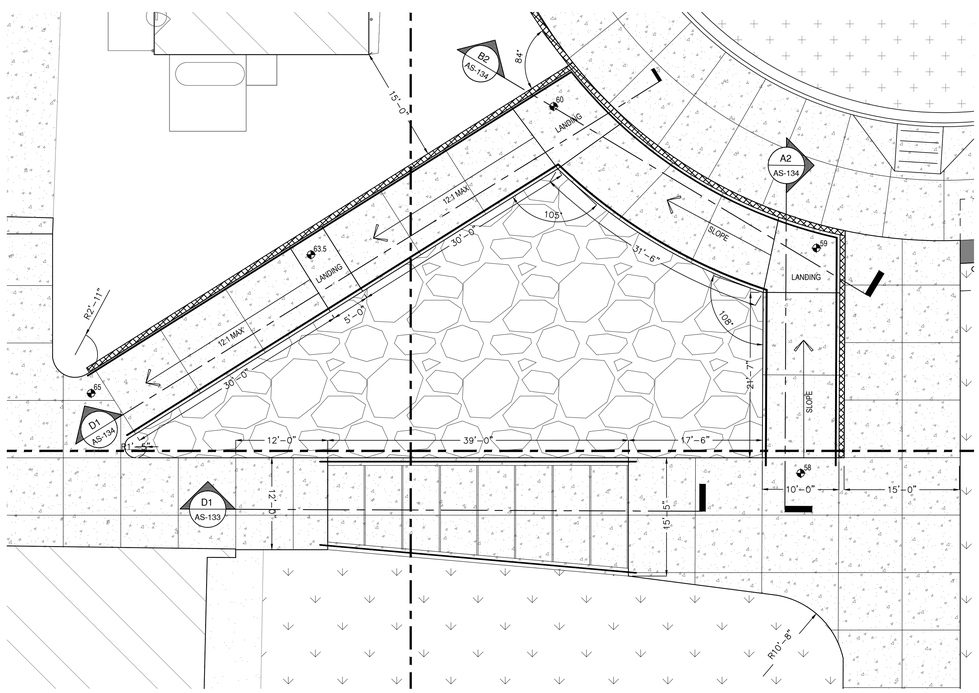
NOTES:
1. WELD AN GRIND SMOOTH ALL JOINTS, PRIME & PAINT. COLOR TO BE SELECTED BY ARCHITECT.
2. HANDRAIL SHALL BE MIN. 2" CLEAR OF WALL.
3. RAIL SHALL BE 2" CLEAR FROM ALL VERTICAL SURFACES.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

D1 RAMP WITH HANDRAIL
AS-134 3/8"=1'-0"

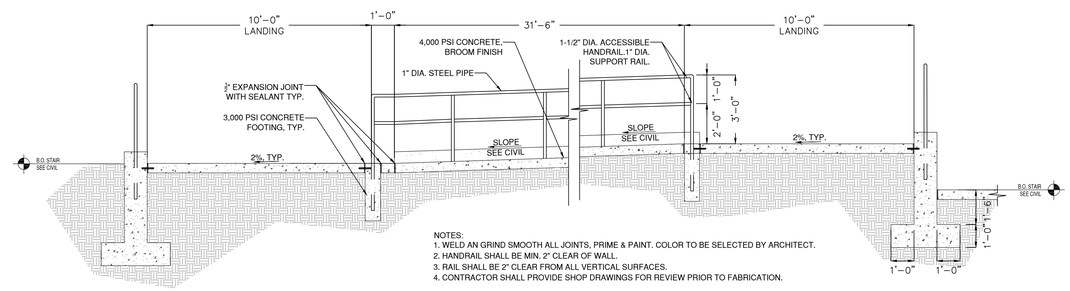


NOTE:
SUBGRADE PREP, BACKFILL AND COMPACTION SHALL BE PER THE GEOTECHNICAL REPORT RECOMMENDATION

C1 STAIR DETAIL
AS-134 3/8"=1'-0"

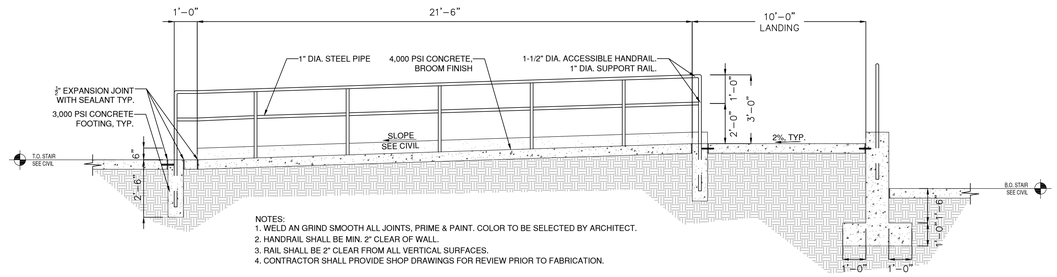


A1 SITE STAIR AND RAMP PLAN
AS-134 1/8"=1'-0"



NOTES:
1. WELD AN GRIND SMOOTH ALL JOINTS, PRIME & PAINT. COLOR TO BE SELECTED BY ARCHITECT.
2. HANDRAIL SHALL BE MIN. 2" CLEAR OF WALL.
3. RAIL SHALL BE 2" CLEAR FROM ALL VERTICAL SURFACES.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

B2 RAMP WITH HANDRAIL
AS-134 3/8"=1'-0"



NOTES:
1. WELD AN GRIND SMOOTH ALL JOINTS, PRIME & PAINT. COLOR TO BE SELECTED BY ARCHITECT.
2. HANDRAIL SHALL BE MIN. 2" CLEAR OF WALL.
3. RAIL SHALL BE 2" CLEAR FROM ALL VERTICAL SURFACES.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

A2 RAMP WITH HANDRAIL
AS-134 3/8"=1'-0"

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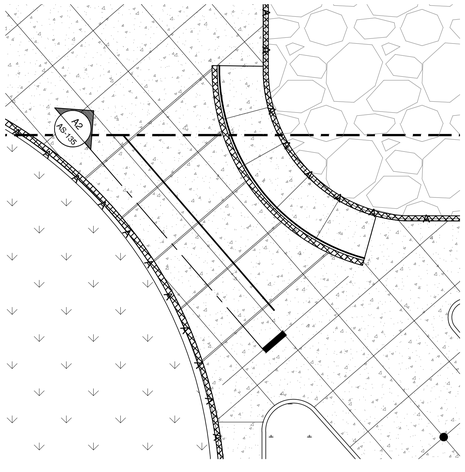
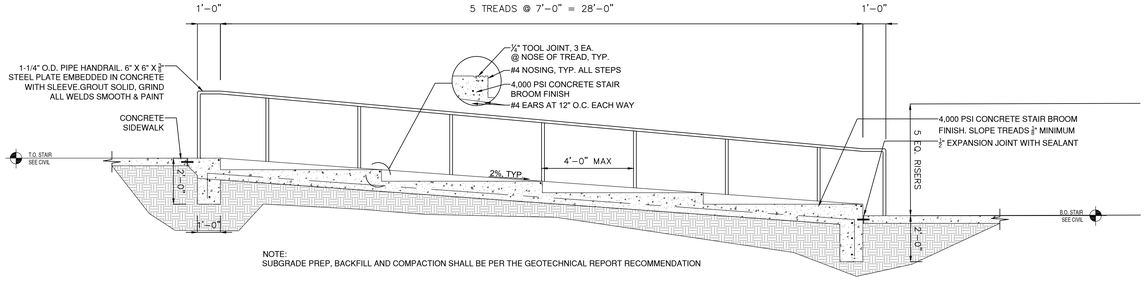


A1 AS-135 SITE STAIR AND RAMP PLAN
1/8"=1'-0"



NOTE:
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A2 AS-135 RAMP WITH HANDRAIL
3/8"=1'-0"

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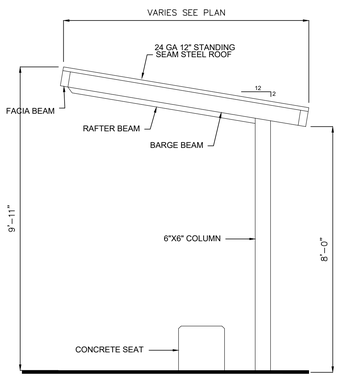
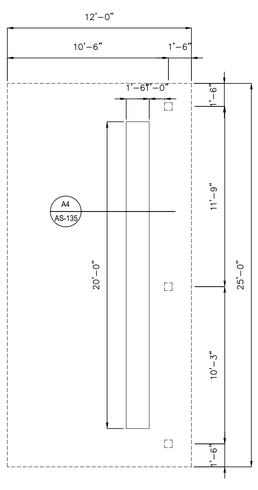
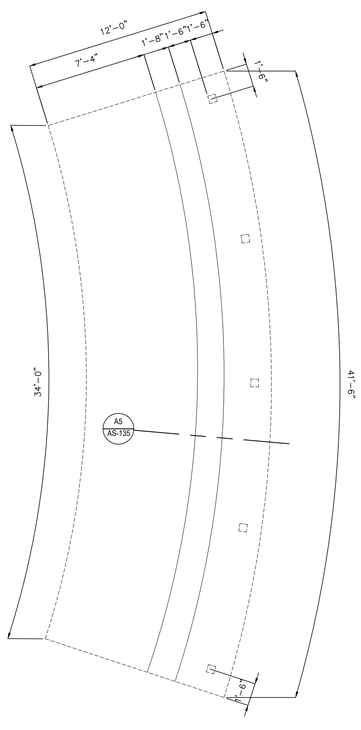


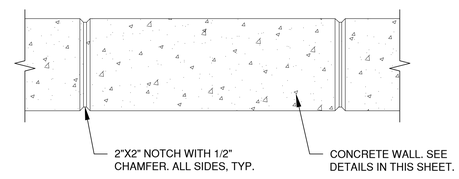
C1 AS-136 CANOPY ELEVATION
1/2"=1'-0"



A1 AS-136 CANOPY ELEVATION/ PLAN DETAIL
1/4"=1'-0"

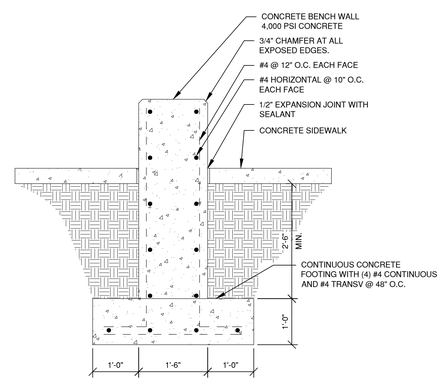


A2 AS-136 CANOPY PLAN DETAIL
1/4"=1'-0"



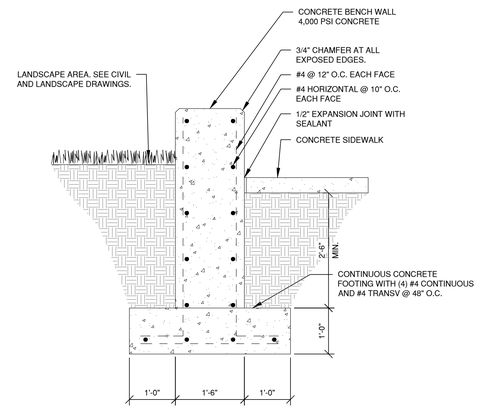
NOTES:
1. INSTALL EXP. JOINTS @ 20'-0" O.C. MAX WITH REMOVABLE DOWELS @ 12" O.C., 12" BOTH WAYS.
2. INSTALL CHAMFER NOTCHES @ 4'-0" O.C.

C4 AS-136 CONCRETE SEAT WALL
1"=1'-0"



NOTES:
1. THE FINISH SURFACES OF THE WALL SHALL BE FREE OF HONEYCOMB PATTERNS AND SHARP OR ROUGH EDGES. EXPOSED UNIFORMLY-SPACED, SNAP TIE INDENTATIONS ARE ACCEPTABLE.
2. RUBBING OR PATCHING OF EXPOSED WALL SURFACES IS NOT ACCEPTABLE.
3. INSTALL VERTICAL EXPANSION JOINT @ 44-0" O.C. PER DETAIL C4 OF THIS SHEET.
4. TOP OF WALL SHALL BE LEVEL. SEE GRADING AND DRAINAGE PLAN FOR BASE OF WALL ELEVATIONS.

A4 AS-136 CONCRETE SEAT WALL
3/4"=1'-0"



A5 AS-136 CONCRETE SEAT WALL
3/4"=1'-0"

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
REGISTERED ARCHITECT

ARCHITECT ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

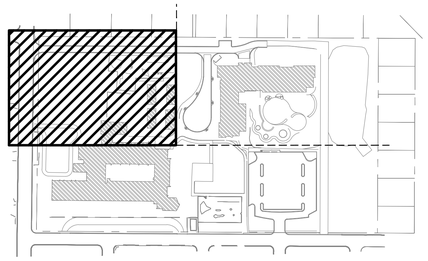
MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	XT
CHECKED BY:	JT

SHEET TITLE
SITE PLAN DETAILS

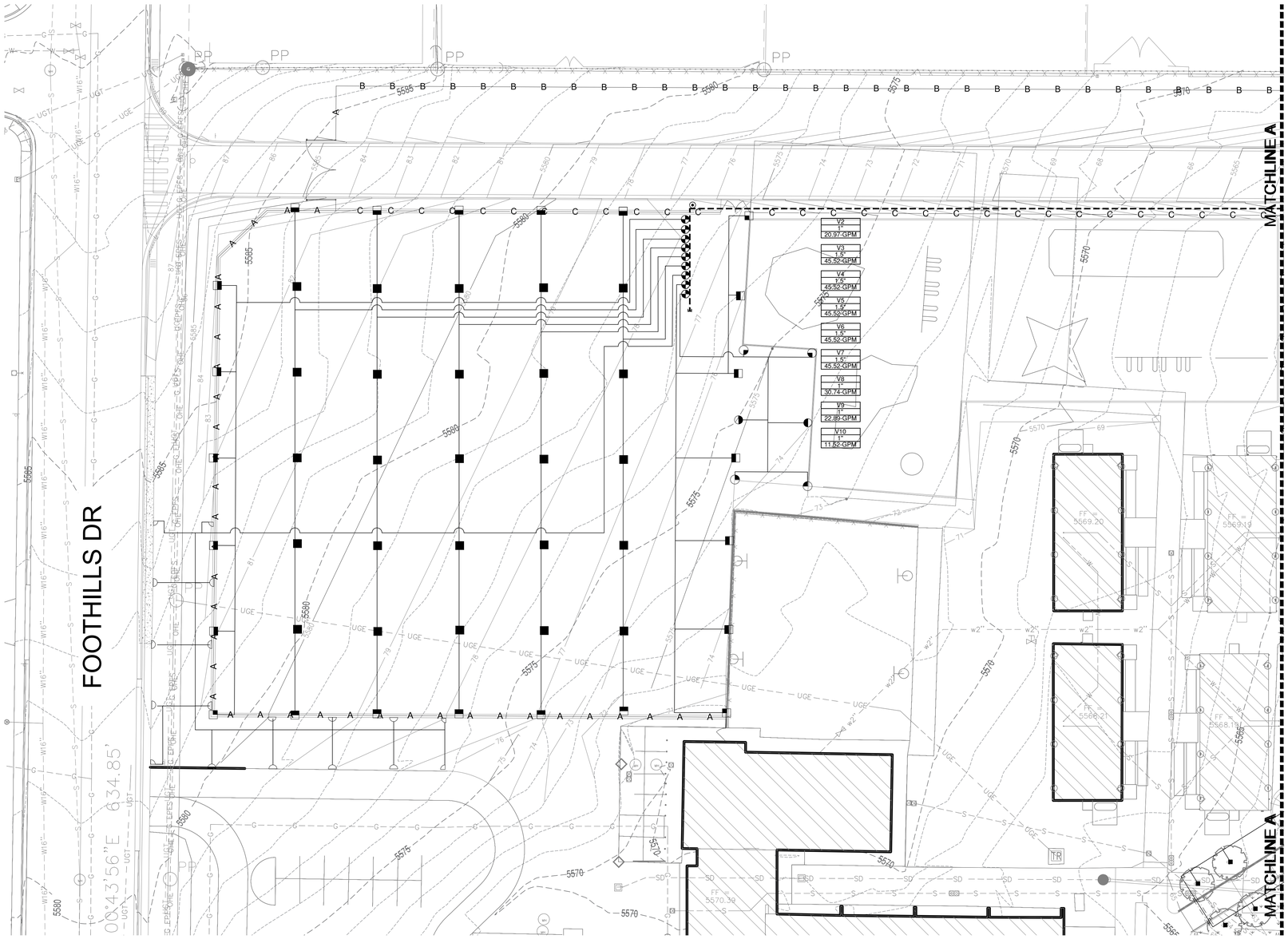
AS-136

Farmington Preschool Academy



KEY MAP
N.T.S.

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN



IRRIGATION PLAN
A1 SCALE: 1" = 20'

IRRIGATION LEGEND

MAIN LINE, LATERAL, AND DRIP LINE SLEEVE PIPING: CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SEE IRRIGATION NOTE C.

WIRE SLEEVE PIPING: CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SEE IRRIGATION NOTE C.

IRRIGATION MAIN LINE: SCHEDULE 40, BELL END, SOLVENT WELD PVC, SIZE 2". DEPTH OF BURY 36" FOR CONTINUOUS PRESSURE IRRIGATION MAIN, 18" FOR NON-CONTINUOUS.

IRRIGATION LATERAL LINE, SCH. 40, BELL-END, SOLVENT WELD PVC. DEPTH OF BURY 18". SIZE AS SHOWN ON PLAN. PIPE CONVEYING LESS THAN 5 GPM SHALL BE 3/4".

ISOLATION VALVE: SPEARS SCH. 80 PVC BALL VALVE, LINE SIZE. SEE DETAIL C5/LI-501.

BACKFLOW PREVENTER, AND MASTER VALVE ASSEMBLY, FEBCO 825YA, 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER IN HOT BOX MODEL NO. HB2 HEATED AND INSULATED BACKFLOW ENCLOSURE AND RAINBIRD 200 PEB PLASTIC-BODY 24-VOLT MASTER VALVE IN TAN VALVE BOX WITH TAN LID. SEE DETAILSI A1/LI-501 AND A3/LI-501.

REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD PEB SERIES, PLASTIC BODY 24-VOLT AUTOMATIC VALVE (OR APPROVED EQUAL), SIZE AS SHOWN ON PLAN. SEE DETAIL C3/LI-501.

FLOW METER, MASTER METER, SIZE 2" IN TAN VALVE BOX WITH TAN LID. INSTALL PER IRRIGATION DETAILS. CONNECT FLOW METER TO CONTROLLER PER MANUFACTURER'S SPECIFICATIONS.

AIR RELEASE VALVE, CRISPIN AL10. INSTALL AT HIGH POINT ON THE MAIN LINE. SEE DETAIL A5/LI-501..

SOLVENT WELD CAP: SCH. 40 PVC, LINE SIZE.

CONTROLLER, RAINBIRD ESP-LXME CONTROLLER WITH EXPANSION MODULES AS REQUIRED TO CONNECT EXISTING VALVES. PEDESTAL MOUNT PER MANUFACTURER'S SPECIFICATIONS. PEDESTAL SHALL BE RAIN BIRD MODEL LXMMSSPED STAINLESS STEEL PEDESTAL WITH MODEL LXMMSS STAINLESS STEEL CONTROLLER CABINET. SEE DETAIL C1/LI-501.

PRESSURE COMPENSATING BUBBLER ASSEMBLIES, RAIN BIRD 1400 SERIES, SEE DETAILS D1/LI-501, D2/LI-501 AND D4/LI-501.

MODEL NO.	GPM	PSI	NOTE
1401	.25	30	
1401	.5	30	2 PER SHRUB
1402	1.0	30	2 PER TREE

ROTARY POP-UP SPRINKLER ASSEMBLIES, RAIN BIRD 5000+ SERIES, 6" STAINLESS STEEL WITH MPR NOZZLES AS FOLLOWS: SEE DETAIL D5/LS-501.

MODEL NO.	RADIUS	GPM	PSI	PR D
5006+PCSAMRSS	35' (BEIGE)	1.92	45	.60
5006+PCSAMRSS	35' (BEIGE)	3.81	45	.60
5006+PCSAMRSS	35' (BEIGE)	7.58	45	.60
5006+PCSAMRSS	30' (GREEN)	1.40	45	.60
5006+PCSAMRSS	30' (GREEN)	2.96	45	.63
5006+PCSAMRSS	25' (RED)	1.00	45	.62
5006+PCSAMRSS	25' (RED)	1.98	45	.61

IRRIGATION KEYED NOTES

1. 2" TEE FROM DOMESTIC WATER SERVICE TO BUILDING, SEE SITE UTILITY PLAN.
2. CONTRACTOR SHALL ADJUST COVERAGE OF EXISTING IRRIGATION HEADS TO ACHIEVE HEAD-TO-HEAD COVERAGE AT EXISTING LAWN AREA.

IRRIGATION GENERAL NOTES

A. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT THE PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH THE PLANS, DETAILS, AND SPECIFICATIONS.

B. THIS SYSTEM WAS DESIGNED TO OPERATE AT A MINIMUM STATIC PRESSURE OF 80 PSI AT THE POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN 80 PSI THE CONTRACTOR SHALL RECEIVE DIRECTION FROM LANDSCAPE ARCHITECT REGARDING POSSIBLE DESIGN MODIFICATIONS PRIOR TO INSTALLATION OF ANY IRRIGATION COMPONENTS. THE PRESSURE READING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE. RESULTS SHALL BE INCLUDED IN THE CONTRACTOR'S IRRIGATION EQUIPMENT SUBMITTAL INDICATING DATE AND TIME OF PRESSURE READING AND THE NAME OF ATTENDING OWNER'S REPRESENTATIVE.

C. CONTRACTOR SHALL INSTALL MAIN LINE AND LATERAL LINES IN SLEEVE PIPING AT ALL LOCATIONS WHERE LINES CROSS BENEATH PAVING OR RETAINING WALLS. SLEEVES SHALL BE CLASS 200, SDR-21, BELL END SOLVENT WELD PVC, TWO SIZES LARGER THAN PIPE TO BE CONTAINED (UNLESS OTHERWISE NOTED ON PLAN). SLEEVES FOR PVC SHALL BE AT LINE BURY DEPTH. COORDINATE IRRIGATION SLEEVE INSTALLATION WITH ALL TRADES TO ENSURE SLEEVES ARE INSTALLED PRIOR TO INSTALLATION OF CURB AND GUTTER, CONCRETE AND ASPHALT PAVEMENT, SIDEWALKS, SLABS, WALLS, ETC.

D. IRRIGATION PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND MAY REQUIRE MINOR FIELD ADJUSTMENTS. IN THE CASE OF MAJOR ADJUSTMENTS OR CHANGES TO THE DESIGN, CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK. ACTUAL PIPE ROUTING AND EQUIPMENT LOCATIONS SHALL BE COMPLETELY AND ACCURATELY NOTED IN THE PROJECT AS-BUILTS TO BE PROVIDED BY THE CONTRACTOR.

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F. CONTRACTOR SHALL PROVIDE TWO 120V, 20 AMP CIRCUITS FROM ELECTRICAL PANEL TO IRRIGATION BACKFLOW PREVENTER ENCLOSURE AND IRRIGATION CONTROLLER (ONE TO EACH). SEE ELECTRICAL DRAWINGS. WORK AND MATERIALS BE IN COMPLIANCE WITH LOCAL CODES AND THE NATIONAL ELECTRIC CODE (N.E.C.).

VALVE TAG KEY

1	VALVE NUMBER
2"	VALVE SIZE
44.43-GPM	GALLONS PER MINUTE

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WILLIAM MOSES
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REGISTERED LANDSCAPE ARCHITECT
03/21/2024
LANDSCAPE ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

100% CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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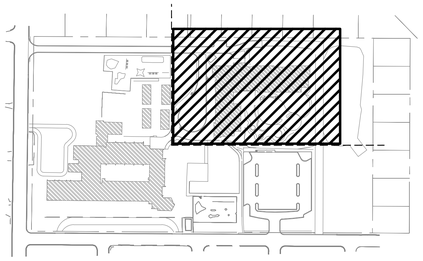
CHECKED BY:	WM

SHEET TITLE
IRRIGATION PLAN

LI-101

Farmington Preschool Academy



KEY MAP
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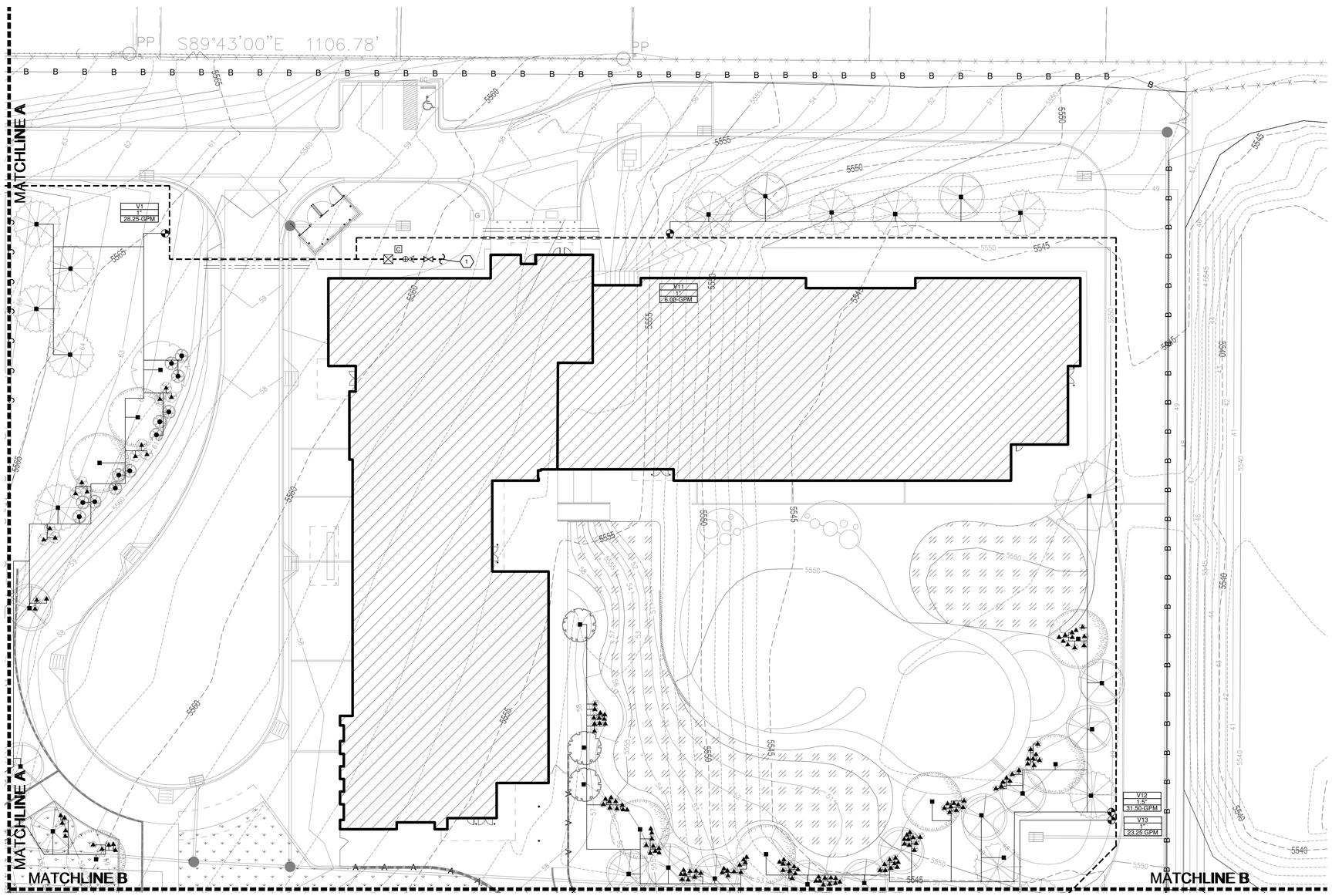

A1 IRRIGATION PLAN
0 20' 40'
SCALE: 1" = 20'

IRRIGATION LEGEND

- MAIN LINE, LATERAL, AND DRIP LINE SLEEVE PIPING: CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SEE IRRIGATION NOTE C.
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	MODEL NO.	GPM	PSI	NOTE
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2"	VALVE SIZE
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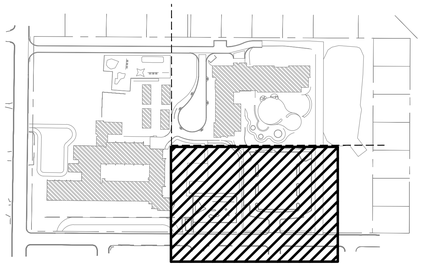
CHECKED BY:	WM

SHEET TITLE
IRRIGATION PLAN

LI-102

Farmington Preschool Academy



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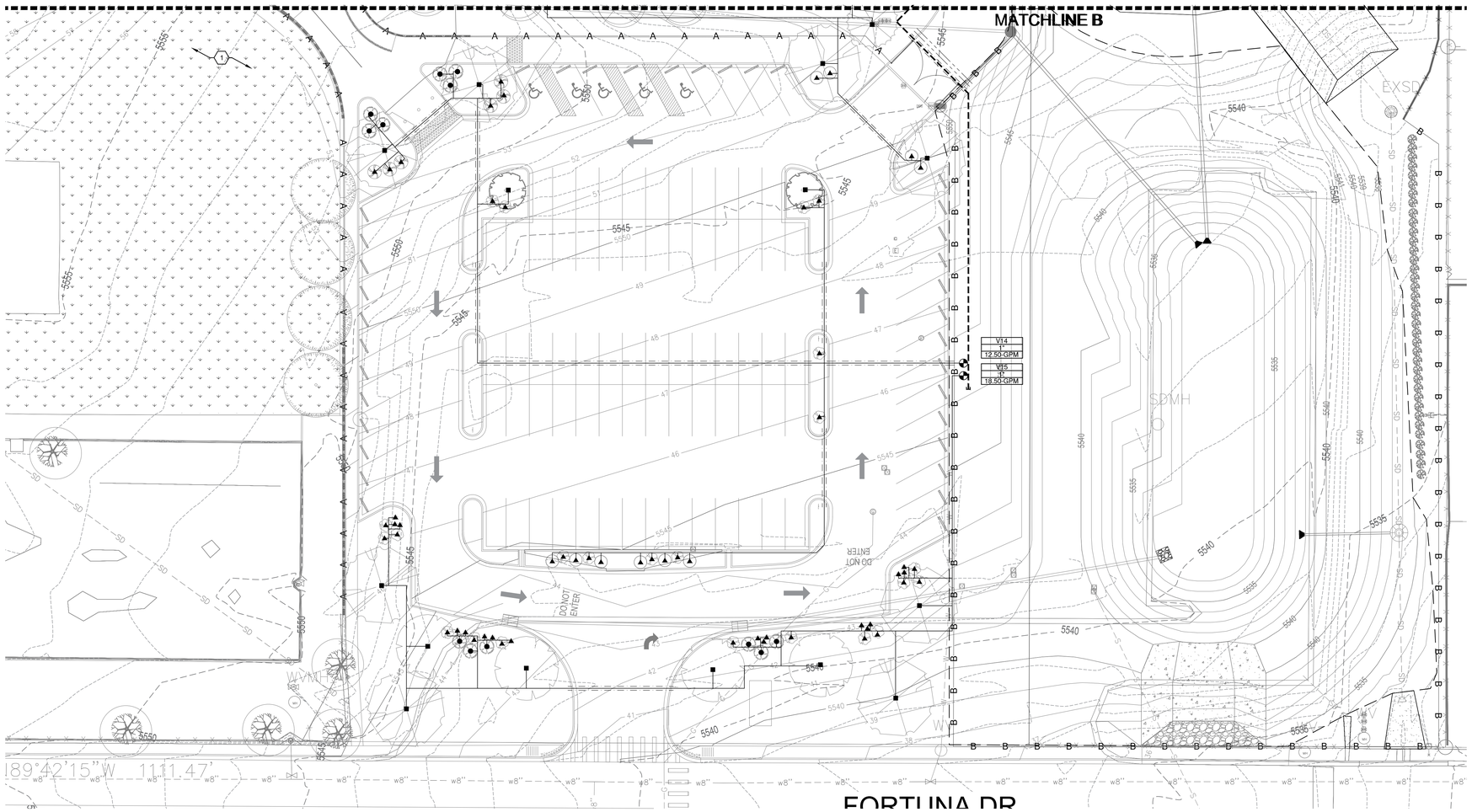

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SCALE: 1" = 20'

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A. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT THE PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH THE PLANS, DETAILS, AND SPECIFICATIONS.

B. THIS SYSTEM WAS DESIGNED TO OPERATE AT A MINIMUM STATIC PRESSURE OF 80 PSI AT THE POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN 80 PSI THE CONTRACTOR SHALL RECEIVE DIRECTION FROM LANDSCAPE ARCHITECT REGARDING POSSIBLE DESIGN MODIFICATIONS PRIOR TO INSTALLATION OF ANY IRRIGATION COMPONENTS. THE PRESSURE READING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE. RESULTS SHALL BE INCLUDED IN THE CONTRACTOR'S IRRIGATION EQUIPMENT SUBMITTAL INDICATING DATE AND TIME OF PRESSURE READING AND THE NAME OF ATTENDING OWNER'S REPRESENTATIVE.

C. CONTRACTOR SHALL INSTALL MAIN LINE AND LATERAL LINES IN SLEEVE PIPING AT ALL LOCATIONS WHERE LINES CROSS BENEATH PAVING OR RETAINING WALLS. SLEEVES SHALL BE CLASS 200, SDR-21, BELL END SOLVENT WELD PVC, TWO SIZES LARGER THAN PIPE TO BE CONTAINED (UNLESS OTHERWISE NOTED ON PLAN). SLEEVES FOR PVC SHALL BE AT LINE BURY DEPTH. COORDINATE IRRIGATION SLEEVE INSTALLATION WITH ALL TRADES TO ENSURE SLEEVES ARE INSTALLED PRIOR TO INSTALLATION OF CURB AND GUTTER, CONCRETE AND ASPHALT PAVEMENT, SIDEWALKS, SLABS, WALLS, ETC.

D. IRRIGATION PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND MAY REQUIRE MINOR FIELD ADJUSTMENTS. IN THE CASE OF MAJOR ADJUSTMENTS OR CHANGES TO THE DESIGN, CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK. ACTUAL PIPE ROUTING AND EQUIPMENT LOCATIONS SHALL BE COMPLETELY AND ACCURATELY NOTED IN THE PROJECT AS-BUILTS TO BE PROVIDED BY THE CONTRACTOR.

E. IRRIGATION PIPING SHALL NOT BE INSTALLED WITHIN THE DRIP LINE OF TREES. ALL ELBOWS AND TEES SHALL BE INSTALLED IN LANDSCAPE AREAS UNLESS OTHERWISE NOTED. IRRIGATION EQUIPMENT SHALL BE LOCATED IN LANDSCAPE AREAS.

F. CONTRACTOR SHALL PROVIDE TWO 120V, 20 AMP CIRCUITS FROM ELECTRICAL PANEL TO IRRIGATION BACKFLOW PREVENTER ENCLOSURE AND IRRIGATION CONTROLLER (ONE TO EACH). SEE ELECTRICAL DRAWINGS. WORK AND MATERIALS BE IN COMPLIANCE WITH LOCAL CODES AND THE NATIONAL ELECTRIC CODE (N.E.C.).

VALVE TAG KEY

1	VALVE NUMBER
2"	VALVE SIZE
44.43-GPM	GALLONS PER MINUTE

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STATE OF NEW MEXICO
WILLIAM MOSES
LA 479
REGISTERED LANDSCAPE ARCHITECT
03/21/2024
LANDSCAPE ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

100% CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

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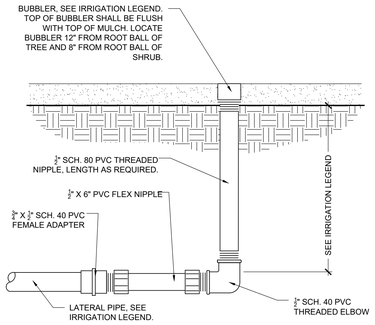
PROJECT NO:	K23-001
DRAWN BY:	TW
CHECKED BY:	WM

SHEET TITLE
IRRIGATION PLAN

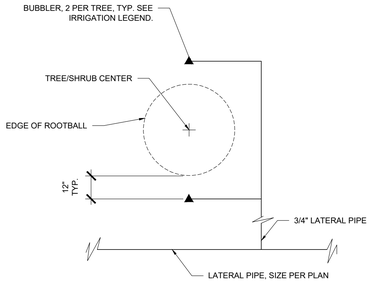
LI-103

Farmington Preschool Academy



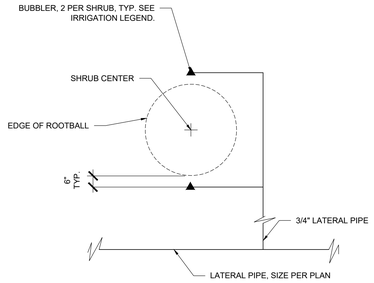
D1 BUBBLER ASSEMBLY

SCALE: N.T.S.



D2 BUBBLER LAYOUT AT TREES (2)

SCALE: N.T.S.



D4 BUBBLER LAYOUT AT SHRUBS (2)

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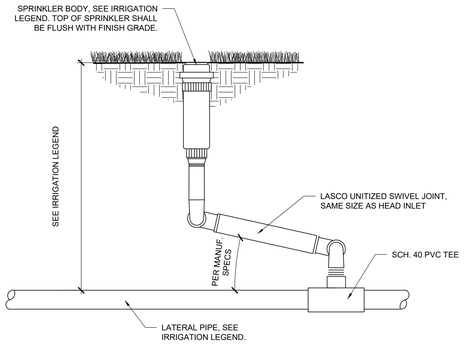
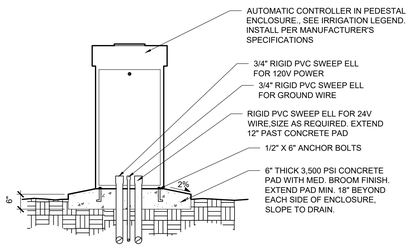


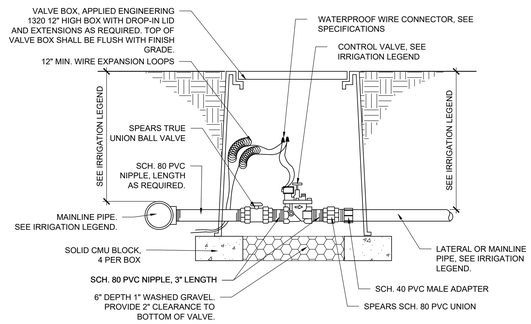
D5 SPRINKLER ASSEMBLY WITH SWING JOINT

SCALE: N.T.S.



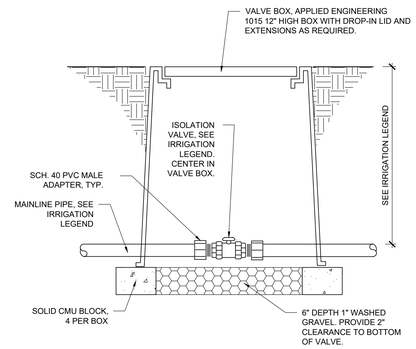
C1 PEDESTAL MOUNTED CONTROLLER

SCALE: N.T.S.



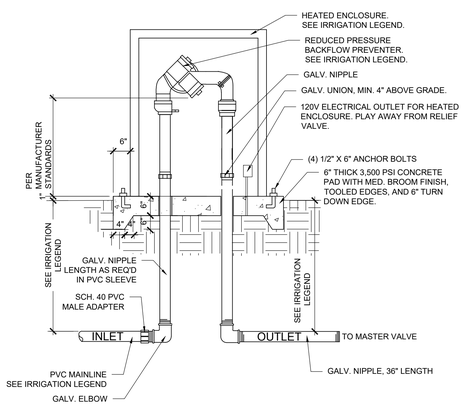
C3 AUTOMATIC VALVE ASSEMBLY

SCALE: N.T.S.



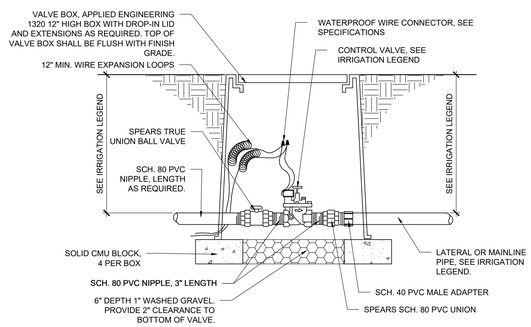
C5 MANUAL ISOLATION VALVE

SCALE: N.T.S.



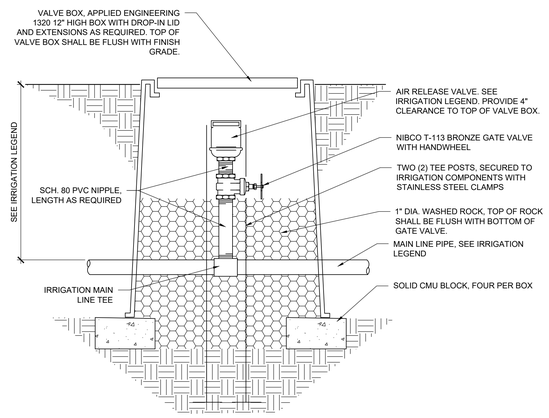
A1 RP BACKFLOW PREVENTER ASSEMBLY

SCALE: N.T.S.



A3 MASTER VALVE ASSEMBLY

SCALE: N.T.S.



A5 AIR RELEASE VALVE ASSEMBLY

SCALE: N.T.S.

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LANDSCAPE ARCHITECT

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5840 FORTUNA DR.
FARMINGTON, NM 87402

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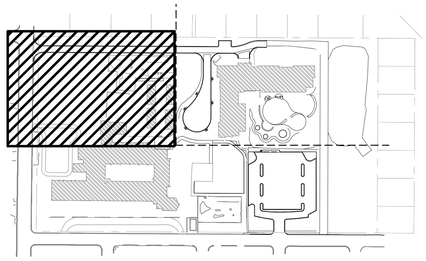
CHECKED BY:	WM

SHEET TITLE

IRRIGATION DETAILS

LI-501

Farmington Preschool Academy



KEY MAP
N.T.S.

PLANTING LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	MIN. INSTALLED SIZE	CONTAINER	MATURE SIZE
TREES						
	'ACCOLADE' ELM	ULMUS X. 'ACCOLADE'	9	2" CAL, 12'-14' HT	B&B	30' HT & SPD
	AUSTRIAN PINE	PINUS NIGRA	127	MIN 5' HT	B&B	30' HT & 20' SPD
	CHINESE PISTACHE	PISTACIA CHINENSIS	13	2" CAL, 12-14' HT	B&B	25' HT & SPD
	FLAME MAPLE	ACER GINNALA 'FLAME"	9	5'-7' HT, MULTI-TRUNK	B&B	20' HT & 15' SPD
	TEXAS RED OAK	QUERCUS BUCKLEYI	5	2" CAL, 12-14' HT	B&B	30' HT X 20' SPD
	SHANTUNG MAPLE	ACER TRUNCATUM	15	2" CAL, 12-14' HT	B&B	35' HT & SPD
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	APACHE PLUME	FALLUGIA PARADOXA	8	MIN 18" HT	5-GAL	4' HT & SPD
	'AUTUMN AMBER' SUMAC	RHUS TRILOBATA 'AUTUMN AMBER'	24	MIN 18" SPD	5-GAL	2' HT X 6' SPD
	CHAMISA	CHRYSOTHAMNUS NAUSEOSUS	36	MIN 18" HT	5-GAL	5' HT & SPD
	SAND SAGE	ARTEMISIA FILIFOLIA	10	MIN 12" HT	5-GAL	4' HT X 5' SPD
PERENNIALS AND GRASSES						
	'BLONDE AMBITION' BLUE GRAMA	BOUTELOUA GRACILIS 'BLONDE AMBITION'	93	MIN 8" HT	1-GAL	2' HT & SPD
	DEER GRASS	MUHLENBERGIA RIGIDA	42	MIN 8" HT	5-GAL	3' HT & SPD
	'WINDWALKER' RED SAGE	SALVIA X 'WINDWALKER'	23	MIN 12" HT	1-GAL	3' HT & SPD

EXISTING TREE TO REMAIN.

ACCENT BOULDER. SEE GENERAL NOTE F.

SEATING BOULDER. SEE GENERAL NOTE J.

PLANTING GENERAL NOTES

A. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITIES LISTED IN THE PLANT SCHEDULE AND THOSE SHOWN ON THE PLANTING PLAN, QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID. ADDITIONAL PAYMENT WILL NOT BE MADE FOR ANY DISCREPANCY IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT SCHEDULE.

B. FURNISH AND INSTALL A 3" DEPTH OF LOCALLY AVAILABLE CRUSHED, WARM-TONE, 1"-Ø GRAVEL MULCH OVER FILTER FABRIC. SEE GENERAL NOTE I. TOP OF GRAVEL MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF GRAVEL MULCH FOR ARCHITECT REVIEW AND OWNER APPROVAL PRIOR TO INSTALLATION. LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

C. IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY BETWEEN THE CONTAINER SIZE LISTED UNDER "CONTAINER" AND HEIGHT & SPREAD LISTED UNDER "INSTALLED SIZE", THE SPECIFIED PLANT SHALL MEET HEIGHT & SPREAD REQUIREMENTS SPECIFIED UNDER "INSTALLED SIZE". IF A LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, IT SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

D. TREES SHALL BE PLANTED PER DETAILS A1/LP-501 AND A3/LP-501.

E. SHRUBS SHALL BE PLANTED PER DETAILS C1/LP-501 AND C3/LP-501.

F. FURNISH ACCENT BOULDERS. BOULDERS SHALL BE MIN 12 CUBIC FOOT RIVER BOULDERS AS AVAILABLE FROM KW ENTERPRISES, (505) 334-2809, OR APPROVED EQUAL. INSTALL PER DETAIL C5/LP-501.

G. FURNISH AND INSTALL A 3" DEPTH OF LOCALLY AVAILABLE WARM-TONE CRUSHER FINES OVER A 3" DEPTH OF BASE COURSE. SELECT CRUSHER FINES THAT WILL REMAIN COMPACTED WHEN DRY AND PROVIDE A FIRM AND STABLE SURFACE. LOOSE CRUSHER FINES WILL NOT BE ACCEPTED. PROVIDE SAMPLE OF CRUSHER FINES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

H. FURNISH AND INSTALL A SINGLE LAYER OF LOCALLY AVAILABLE WARM-TONE 4"-8" CRUSHED, ANGULAR COBBLE. COBBLE INSTALLED OVER FILTER FABRIC WILL NOT BE ACCEPTED. TOP OF ROCK MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF ROCK MULCH FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

I. FILTER FABRIC SHALL BE MIN. 4 OZ/SY NONWOVEN NEEDLE PUNCHED POLYPROPLYENE (MIRAFI 140N OR EQUIVALENT). OVERLAP FABRIC ENDS 3", TURN DOWN EDGES 6". TOP OF GRAVEL MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. TURN DOWN FABRIC EDGE PER DETAIL A5/LP-501.

J. FURNISH AND INSTALL SEATING BOULDER PER DETAIL D5/LP-501.

PLANTING HATCH LEGEND

COMPACTED CRUSHER FINES. SEE GENERAL NOTE G.

1" GRAVEL MULCH SEE GENERAL NOTE B.

4-8" COBBLE, SEE GENERAL NOTE H.

SOD. SEE KEYED NOTE 1.

SYNTHETIC TURF. SEE KEYED NOTES 3 AND 4.

EXISTING GRASS TO REMAIN. SEE KEYED NOTE 2 AND IRRIGATION PLAN.

PLANTING KEYED NOTES

1. INSTALL LOCALLY AVAILABLE WARM-SEASON TURF GRASS. SEE SPECIFICATIONS FOR PLANTING BED PREPARATION.
2. CONTRACTOR SHALL REPAIR ALL LAWN AREAS DAMAGED BY TRENCHING AND OTHER CONSTRUCTION ACTIVITIES BY SODDING. SEE SPECIFICATIONS.
3. FURNISH "PLAY PLATINUM" ARTIFICIAL TURF BY SYNLAWN, (505) 890-8889, OR EQUAL APPROVED BY OWNER. CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PROPOSED INSTALLATION FOR OWNER APPROVAL.
4. FURNISH "PLAY PLATINUM" ARTIFICIAL TURF BY SYNLAWN, (505) 890-8889, OR EQUAL APPROVED BY OWNER.CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PROPOSED INSTALLATION FOR OWNER APPROVAL.

A1 PLANTING PLAN
SCALE: 1" = 20'

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN

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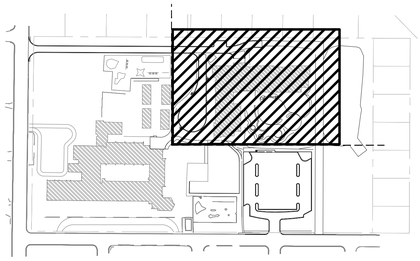
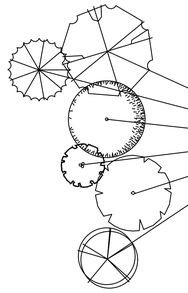
SHEET TITLE
PLANTING PLAN

LP-101

Farmington Preschool Academy



KEY MAP
N.T.S.



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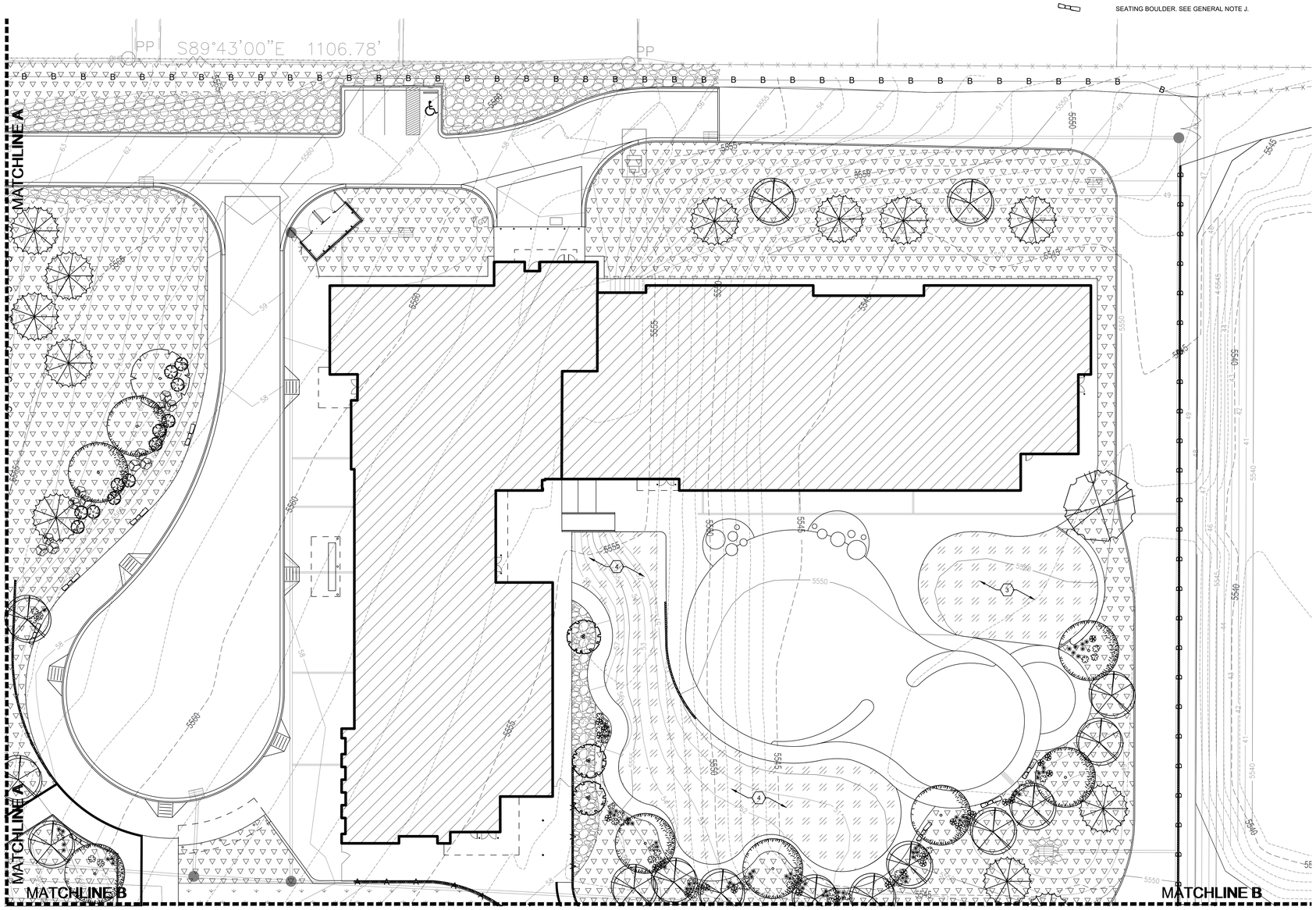

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J. FURNISH AND INSTALL SEATING BOULDER PER DETAIL D5/LP-501.

PLANTING HATCH LEGEND

COMPACTED CRUSHER FINES. SEE GENERAL NOTE G.

1" GRAVEL MULCH SEE GENERAL NOTE B.

4-8" COBBLE, SEE GENERAL NOTE H.

SOD. SEE KEYED NOTE 1.

SYNTHETIC TURF. SEE KEYED NOTES 3 AND 4.

EXISTING GRASS TO REMAIN. SEE KEYED NOTE 2 AND IRRIGATION PLAN.

PLANTING KEYED NOTES

1. INSTALL LOCALLY AVAILABLE WARM-SEASON TURF GRASS. SEE SPECIFICATIONS FOR PLANTING BED PREPARATION.
2. CONTRACTOR SHALL REPAIR ALL LAWN AREAS DAMAGED BY TRENCHING AND OTHER CONSTRUCTION ACTIVITIES BY SODDING. SEE SPECIFICATIONS.
3. FURNISH "PLAY PLATINUM" ARTIFICIAL TURF BY SYNLAWN, (505) 890-8889, OR EQUAL APPROVED BY OWNER. CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PROPOSED INSTALLATION FOR OWNER APPROVAL.
4. FURNISH "PLAY PLATINUM" ARTIFICIAL TURF BY SYNLAWN, (505) 890-8889, OR EQUAL APPROVED BY OWNER.CONTRACTOR SHALL PROVIDE SHOP DRAWING OF PROPOSED INSTALLATION FOR OWNER APPROVAL.

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN

A1 PLANTING PLAN
0 20' 40'
SCALE: 1" = 20'

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STATE OF NEW MEXICO
WILLIAM MOSES
LA 479
REGISTERED LANDSCAPE ARCHITECT
03/21/2024

LANDSCAPE ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

100% CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

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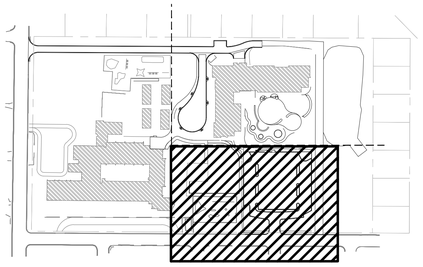
DRAWN BY:	TW
CHECKED BY:	WM

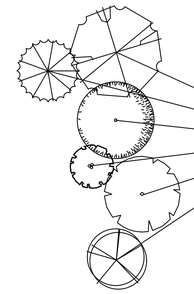
SHEET TITLE
PLANTING PLAN

LP-102

Farmington Preschool Academy



KEY MAP
N.T.S.



PLANTING LEGEND

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	MIN. INSTALLED SIZE	CONTAINER	MATURE SIZE
TREES						
	'ACCOLADE' ELM	ULMUS X. 'ACCOLADE'	9	2" CAL, 12'-14' HT	B&B	30' HT & SPD
	AUSTRIAN PINE	PINUS NIGRA	127	MIN 5' HT	B&B	30' HT & 20' SPD
	CHINESE PISTACHE	PISTACIA CHINENSIS	13	2" CAL, 12-14' HT	B&B	25' HT & SPD
	FLAME MAPLE	ACER GINNALA 'FLAME"	9	5'-7' HT, MULTI-TRUNK	B&B	20' HT & 15' SPD
	TEXAS RED OAK	QUERCUS BUCKLEYI	5	2" CAL, 12-14' HT	B&B	30' HT X 20' SPD
	SHANTUNG MAPLE	ACER TRUNCATUM	15	2" CAL, 12-14' HT	B&B	35' HT & SPD
SHRUBS						
	APACHE PLUME	FALLUGIA PARADOXA	8	MIN 18" HT	5-GAL	4' HT & SPD
	'AUTUMN AMBER' SUMAC	RHUS TRILOBATA 'AUTUMN AMBER'	24	MIN 18" SPD	5-GAL	2' HT X 6' SPD
	CHAMISA	CHRYSOTHAMNUS NAUSEOSUS	36	MIN 18" HT	5-GAL	5' HT & SPD
	SAND SAGE	ARTEMISIA FILIFOLIA	10	MIN 12" HT	5-GAL	4' HT X 5' SPD
PERENNIALS AND GRASSES						
	'BLONDE AMBITION' BLUE GRAMA	BOUTELOUA GRACILIS 'BLONDE AMBITION'	93	MIN 8" HT	1-GAL	2' HT & SPD
	DEER GRASS	MUHLENBERGIA RIGIDA	42	MIN 8" HT	5-GAL	3' HT & SPD
	'WINDWALKER' RED SAGE	SALVIA X 'WINDWALKER'	23	MIN 12" HT	1-GAL	3' HT & SPD

EXISTING TREE TO REMAIN.

ACCENT BOULDER. SEE GENERAL NOTE F.

SEATING BOULDER. SEE GENERAL NOTE J.

PLANTING GENERAL NOTES

A. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITIES LISTED IN THE PLANT SCHEDULE AND THOSE SHOWN ON THE PLANTING PLAN, QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID. ADDITIONAL PAYMENT WILL NOT BE MADE FOR ANY DISCREPANCY IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT SCHEDULE.

B. FURNISH AND INSTALL A 3" DEPTH OF LOCALLY AVAILABLE CRUSHED, WARM-TONE, 1"-Ø GRAVEL MULCH OVER FILTER FABRIC. SEE GENERAL NOTE I. TOP OF GRAVEL MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF GRAVEL MULCH FOR ARCHITECT REVIEW AND OWNER APPROVAL PRIOR TO INSTALLATION. LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

C. IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY BETWEEN THE CONTAINER SIZE LISTED UNDER "CONTAINER" AND HEIGHT & SPREAD LISTED UNDER "INSTALLED SIZE", THE SPECIFIED PLANT SHALL MEET HEIGHT & SPREAD REQUIREMENTS SPECIFIED UNDER "INSTALLED SIZE". IF A LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, IT SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

D. TREES SHALL BE PLANTED PER DETAILS A1/LP-501 AND A3/LP-501.

E. SHRUBS SHALL BE PLANTED PER DETAILS C1/LP-501 AND C3/LP-501.

F. FURNISH ACCENT BOULDERS. BOULDERS SHALL BE MIN 12 CUBIC FOOT RIVER BOULDERS AS AVAILABLE FROM KW ENTERPRISES, (505) 334-2809, OR APPROVED EQUAL. INSTALL PER DETAIL C5/LP-501.

G. FURNISH AND INSTALL A 3" DEPTH OF LOCALLY AVAILABLE WARM-TONE CRUSHER FINES OVER A 3" DEPTH OF BASE COURSE. SELECT CRUSHER FINES THAT WILL REMAIN COMPACTED WHEN DRY AND PROVIDE A FIRM AND STABLE SURFACE. LOOSE CRUSHER FINES WILL NOT BE ACCEPTED. PROVIDE SAMPLE OF CRUSHER FINES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

H. FURNISH AND INSTALL A SINGLE LAYER OF LOCALLY AVAILABLE WARM-TONE 4"-8" CRUSHED, ANGULAR COBBLE. COBBLE INSTALLED OVER FILTER FABRIC WILL NOT BE ACCEPTED. TOP OF ROCK MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF ROCK MULCH FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

I. FILTER FABRIC SHALL BE MIN. 4 OZ/SY NONWOVEN NEEDLE PUNCHED POLYPROPLYENE (MIRAFI 140N OR EQUIVALENT). OVERLAP FABRIC ENDS 3", TURN DOWN EDGES 6". TOP OF GRAVEL MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. TURN DOWN FABRIC EDGE PER DETAIL A5/LP-501.

J. FURNISH AND INSTALL SEATING BOULDER PER DETAIL D5/LP-501.

PLANTING HATCH LEGEND

- COMPACTED CRUSHER FINES. SEE GENERAL NOTE G.
- 1" GRAVEL MULCH SEE GENERAL NOTE B.
- 4-8" COBBLE, SEE GENERAL NOTE H.
- SOD. SEE KEYED NOTE 1.
- SYNTHETIC TURF. SEE KEYED NOTES 3 AND 4.
- EXISTING GRASS TO REMAIN. SEE KEYED NOTE 2 AND IRRIGATION PLAN.

PLANTING KEYED NOTES

1. INSTALL LOCALLY AVAILABLE WARM-SEASON TURF GRASS. SEE SPECIFICATIONS FOR PLANTING BED PREPARATION.
2. CONTRACTOR SHALL REPAIR ALL LAWN AREAS DAMAGED BY TRENCHING AND OTHER CONSTRUCTION ACTIVITIES BY SODDING. SEE SPECIFICATIONS.
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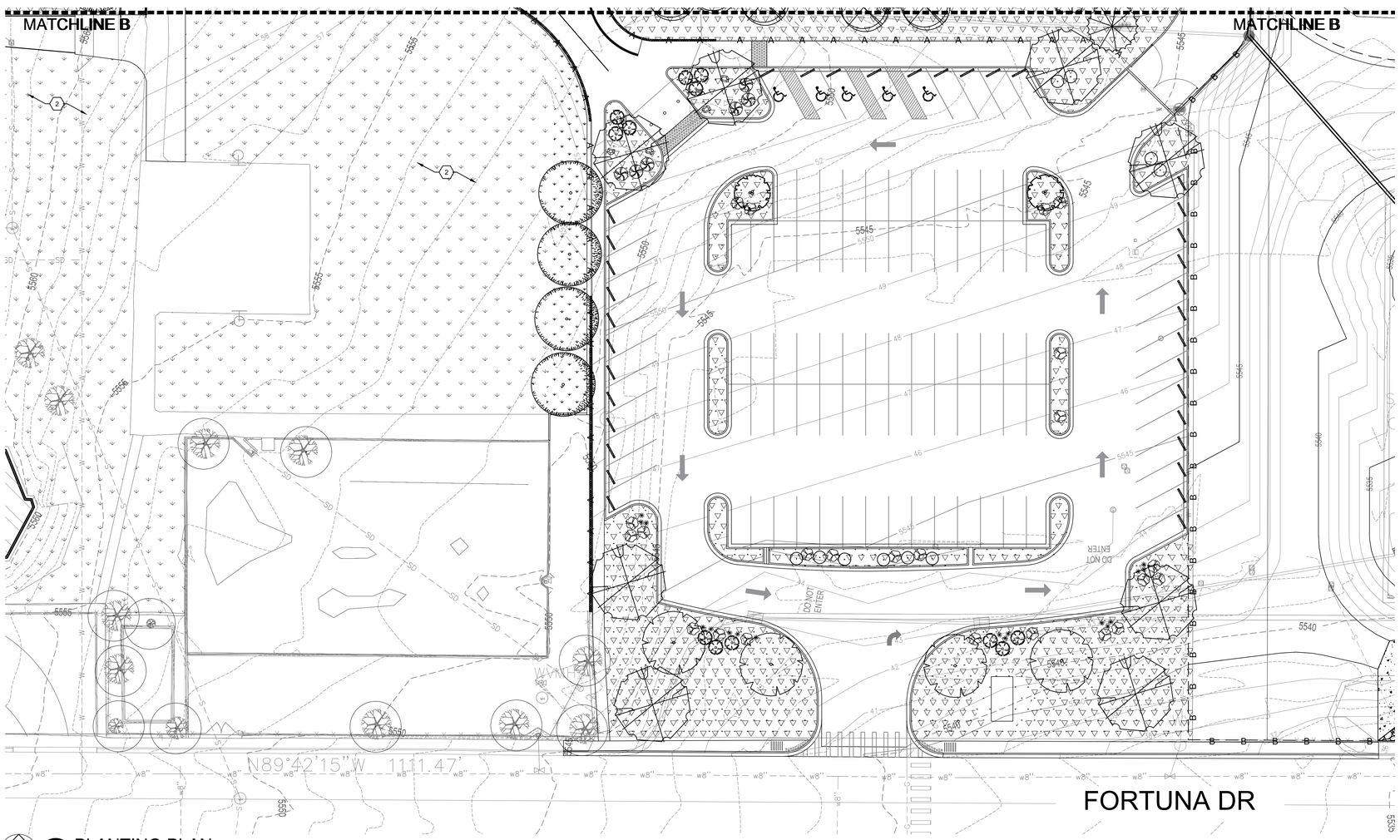

SEE ARCHITECTURAL PLANS FOR PHASING/SEQUENCE PLAN

A1 PLANTING PLAN
SCALE: 1" = 20'

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100% CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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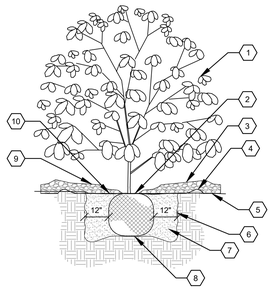
CHECKED BY:	WM

SHEET TITLE
PLANTING PLAN

LP-103

Farmington Preschool Academy

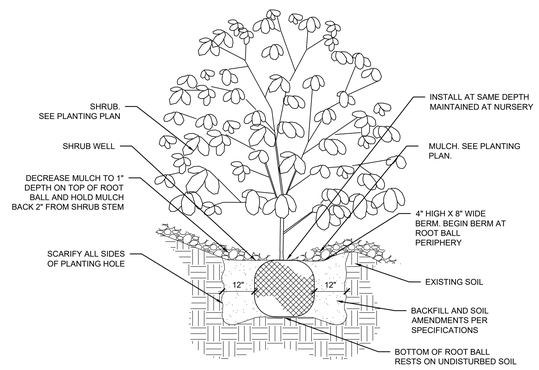


KEYED NOTES

1. SHRUB. SEE PLANTING PLAN.
2. INSTALL AT SAME DEPTH MAINTAINED AT NURSERY.
3. MULCH, SEE PLANTING PLAN.
4. 4" HIGH X 8" WIDE BERM. BEGIN BERM AT ROOT BALL PERIPHERY.
5. EXISTING SOIL.
6. SCARIFY ALL SIDES OF PLANTING HOLE.
7. BACKFILL AND SOIL AMENDMENTS PER SPECIFICATIONS.
8. BOTTOM OF THE ROOT BALL ON UNDISTURBED SOIL.
9. DECREASE MULCH TO 1" DEPTH ON TOP OF ROOT BALL AND HOLD MULCH BACK 2" FROM SHRUB STEM.
10. WEED BARRIER FABRIC - SEE PLANTING GENERAL NOTES - SEE DETAIL C1/LP-501..

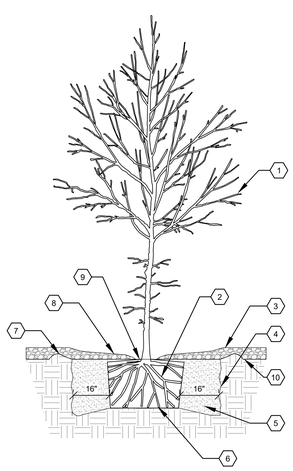
C1 SHRUB PLANTING

SCALE: N.T.S.



C3 SHRUB PLANTING ON SLOPE

SCALE: N.T.S.

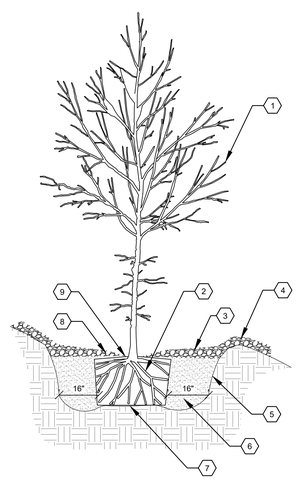


KEYED NOTES

1. TREE, SEE PLANTING PLAN.
2. CONTAINER GROWN TREES: REMOVE CONTAINER IN ITS ENTIRETY. SHAVE ROOT BALL TO REMOVE ALL CIRCLING ROOTS.
   B&B TREES: REMOVE TOP THIRD OF WIRE BASKET PRIOR TO FINAL BACKFILL OF PLANTING HOLE. AFTER PARTIAL BACKFILL, CUT TWINE AND REMOVE FROM TOP OF ROOT BALL. REMOVE TOP THIRD OF BURLAP. DO NOT FOLD OVER.
3. MULCH, SEE PLANTING PLAN.
4. SCARIFY ALL SIDES OF PLANTING HOLE.
5. BACKFILL AND SOIL AMENDMENTS PER SPECIFICATIONS.
6. BOTTOM OF THE ROOT BALL ON UNDISTURBED SOIL.
7. 4" HIGH X 8" WIDE BERM. BEGIN BERM AT ROOT BALL PERIPHERY.
8. DECREASE MULCH TO 1" DEPTH ON TOP OF ROOT BALL AND HOLD MULCH BACK 2" FROM TRUNK.
9. REMOVE SOIL (FROM NURSERY) AS NEEDED TO EXPOSE ROOT FLARE. INSTALL WITH ROOT FLARE 2"-3" ABOVE GRADE.
10. WEED BARRIER FABRIC - SEE PLANTING GENERAL NOTES AND DETAIL A5/LP-501.

A1 TREE PLANTING

SCALE: N.T.S.

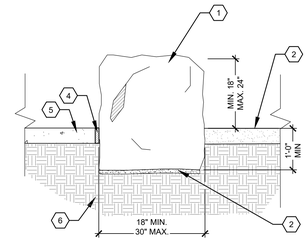


KEYED NOTES

1. TREE, SEE PLANTING PLAN.
2. CONTAINER GROWN TREES: REMOVE CONTAINER IN ITS ENTIRETY. SHAVE ROOT BALL TO REMOVE ALL CIRCLING ROOTS.
   B&B TREES: REMOVE TOP THIRD OF WIRE BASKET PRIOR TO FINAL BACKFILL OF PLANTING HOLE. AFTER PARTIAL BACKFILL, CUT TWINE AND REMOVE FROM TOP OF ROOT BALL. REMOVE TOP THIRD OF BURLAP. DO NOT FOLD OVER.
3. MULCH, SEE PLANTING PLAN.
4. 4" HIGH X 8" WIDE BERM. BEGIN BERM AT ROOT BALL PERIPHERY.
5. SCARIFY ALL SIDES OF PLANTING HOLE.
6. BACKFILL AND SOIL AMENDMENTS PER SPECIFICATIONS.
7. BOTTOM OF THE ROOT BALL ON UNDISTURBED SOIL.
8. DECREASE MULCH TO 1" DEPTH ON TOP OF ROOT BALL AND HOLD MULCH BACK 2" FROM TRUNK.
9. REMOVE SOIL (FROM NURSERY) AS NEEDED TO EXPOSE ROOT FLARE. INSTALL WITH ROOT FLARE 2"-3" ABOVE GRADE.

A3 TREE PLANTING - ON SLOPE

SCALE: N.T.S.



KEYED NOTES

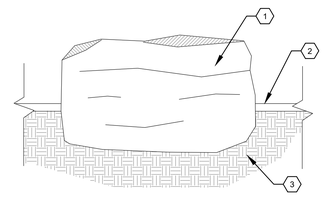
1. TABULAR BOULDER. SEE PLAN FOR LOCATION AND BOULDER TYPE.
2. MULCH, SEE PLAN.
3. 1" LAYER LEVELING SAND.
4. EXPANSION JOINT, TYP.
5. CONCRETE PAVEMENT.
6. 95% COMPACTED SUBGRADE.

GENERAL NOTES

SEATING BOULDERS SHALL BE NATURALLY RECTANGULAR IN FORM. SAWN BOULDERS WILL BE REJECTED.

D5 SEATING BOULDER

SCALE: N.T.S.



KEYED NOTES

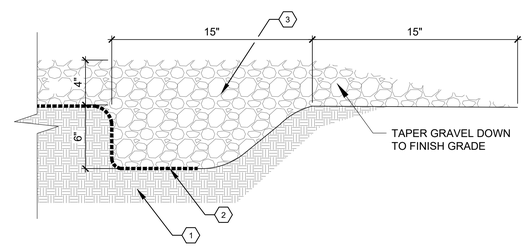
1. LANDSCAPE BOULDER. SEE PLAN FOR LOCATION AND BOULDER TYPE.
2. FINISH GRADE. SURFACE MATERIAL VARIES, SEE PLAN.
3. EXISTING SOIL

GENERAL NOTES

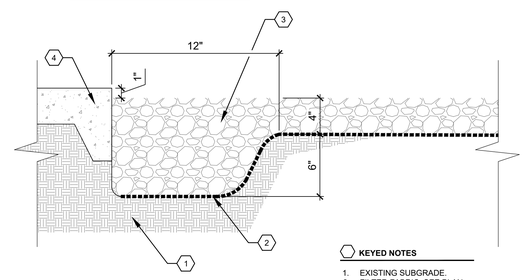
BURY APPROXIMATELY 1/3 BOULDER MASS.

C5 ACCENT BOULDER

SCALE: N.T.S.



UNCONTAINED EDGE



EDGE AT PAVEMENT

KEYED NOTES

1. EXISTING SUBGRADE.
2. FILTER FABRIC. SEE PLAN.
3. GRAVEL MULCH. SEE PLAN.
4. PAVEMENT. SEE PLAN.

A5 GRAVEL EDGE FINISH CONDITION

SCALE: N.T.S.

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SHEET TITLE

PLANTING DETAILS

LP-501

Farmington Preschool Academy

GENERAL STRUCTURAL NOTES

INTERNATIONAL BUILDING CODE, 2021 EDITION
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16,
AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
SJI STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS
SDI DIAPHRAGM DESIGN MANUAL, 2ND EDITION
AISI COLD FORMED STEEL MANUAL, CURRENT EDITION
ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318
AWS D1.1 AND D1.3

2. DESIGN CRITERIA:
   A. VERTICAL:
      LIVE LOAD

ROOF (SNOW)	25 PSF + DRIFTS
PARTITION	10 PSF
FLOOR	50 PSF
CORRIDOR	100 PSF
Is (IMPORTANCE FACTOR FOR SNOW)	1.1

   * LOAD HAS NOT BEEN REDUCED
   B. HORIZONTAL LOADS:
      (1) WIND*
      PROCEDURE PER SECTION 1609

P = WIND PRESSURE x λ Iw

WIND SPEED	V3s=115 MPH
WIND PRESSURE : END ZONE	21.0 PSF
INTERIOR ZONE	13.9 PSF
HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT FROM FIGURE 6-2 IN ASCE	
IMPORTANCE FACTOR	Iw = 1.15

HORIZONTAL WIND LOAD:	END	INTERIOR
0' - 15'	25.41 PSF	16.82 PSF
15' - 20'	27.09 PSF	17.93 PSF
20' - 25'	28.35 PSF	18.77 PSF

      (2) SEISMIC* V = Sds Ie W/ R

SPECTRAL ACCELERATIONS	Ss=0.165
	S1=0.056
SITE CLASS	C
IMPORTANCE FACTOR	Ie = 1.25
DESIGN SPECTRAL RESPONSE	Sds = 0.143
ONE SECOND PERIOD RESPONSE ACCEL.	Sd1 = 0.056
RESPONSE MODIFICATION COEFFICIENT	R = 3.25
SEISMIC DESIGN CATEGORY	C
SEISMIC FORCE	V = 0.055 X W

   * ALLOWABLE 1/3 STRESS INCREASE FOR SEISMIC LOADING
   C. ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF

3. GENERAL:
   A. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY .
   B. SHOP DRAWINGS, IN HARD COPY FORM, SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED.
   C. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND REQUIRE RESUBMITTAL.
   D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
   E. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
   F. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
   G. NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
   H. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
   I. REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

4. MATERIALS:
   A. CAST-IN-PLACE CONCRETE:
      (1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10.
      (2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
      (3) NORMALWEIGHT CONCRETE:
         A. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.).
         B. F'C = 3000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (AIR ENTRAINED) IE. , FOOTINGS, PEDESTALS, STEM WALLS, ETC.)
         C. F'C = 4000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE.
         D. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL WALLS.
      (4) THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, STEM WALLS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER.
      (5) FLYASH ADDITIVES MAY NOT EXCEED 20% OF THE CEMENTITIOUS MATERIAL.
      (6) THE MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO, BY WEIGHT, MAY NOT EXCEED 50%.
      (7) THE OWNER'S SPECIAL INSPECTOR SHALL MONITOR SAMPLING & TESTING PERFORMED BY THE CONTRACTOR'S TESTING AGENCY.
      (8) MAXIMUM SLUMP FOR CONCRETE MIX DESIGN IS 4".
   B. REINFORCING STEEL:
      (1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315-99).
      (2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
      (3) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
      (4) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
         A. VERTICAL REINFORCING:30 BAR DIA. (18" MINIMUM)
         B. HORIZONTAL REINFORCING:30 BAR DIA. (18" MINIMUM)
      (5) ALL HORIZONTAL REINFORCING IN FOOTINGS, BEAMS, AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS, (18 INCHES MINIMUM).
      (6) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
         A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...3"
         B. CONCRETE EXPOSED TO EARTH OR WEATHER:
            1. BARS LARGER THAN NO. 5.....2"
            2. BARS NO. 5 OR SMALLER.....1 1/2"
      (7) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
      (8) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
      (9) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS. IF DRAWINGS SHOW REBAR TO BE WELDED, USE ASTM A706 REBAR.

   C. STRUCTURAL AND MISCELLANEOUS STEEL:
      (1) ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
      (2) ALL W-SHAPED MEMBERS SHALL CONFORM TO ASTM A992 (Fy=50KSI). ALL CHANNELS, ANGLES, & PLATES SHALL BE ASTM A36 (Fy=36KSI). ALL PIPE STEEL SHALL BE ASTM A501 (Fy=36KSI).
      (3) ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. FY = 46 KSI.
      (4) BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
      (5) ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
      (6) ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE FLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
      (7) ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.
      (8) ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
      (9) HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PAINT. WELDING PRE QUALIFICATION REQUIRED.

   D. STEEL JOISTS:
      (1) STEEL JOISTS SHALL BE MANUFACTURED BY A MEMBER OF SJI.
      (2) STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 2002 STEEL JOIST INSTITUTE SPECIFICATIONS.
      (3) NO CONSTRUCTION LOADS OF ANY KIND SHALL BE PLACED ON UNBRIDGED JOISTS.
      (4) WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT OR CLOSEST TO COLUMN LINES SHALL BE FIELD BOLTED TO ADD LATERAL STABILITY DURING CONSTRUCTION.
      (5) PROVIDE BRIDGING IN ACCORDANCE WITH THE 42ND EDITION OF SJI STANDARD SPECIFICATIONS.

   E. STEEL DECK:
      (1) ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.
      (2) SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.
      (3) PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECKS.
      (4) ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" AND SHALL BE AT SUPPORTS.
      (5) DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS UNLESS NOTED OTHERWISE ON THE PLANS.
      (6) POWER DRIVEN FASTENERS SHALL HAVE A MIN. 0.177 INCH SHAFT DIAMETER AND BE EQUIVALENT TO HILTI ENP DECK FASTENERS.
      (7) CONDUIT PARALLEL TO FLOOR DECK IN CONCRETE TOPPING IS PROHIBITED.

   F. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):
      (1) ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2007.
      (2) WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2 1/2" X 18 GA. STUD OR CLIPPED COLD-ROLLED CHANNEL 1 1/2" X 16 GA.). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
      (3) PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
      (4) LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD SCHEDULE.
      (5) ALL TRACK SHALL BE DEEP LEG (1 1/2" FLANGE), 18 GA. MINIMUM. TRACK SHALL BE ANCHORED TO SLAB WITH 1/2" DIA. X 3 1/2" EMBED EXPANSION SLEEVE OR EPOXY ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.

   5. POST INSTALLED ANCHORS

      POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURERE'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL ADHESIVES AND MECHANICAL ANCHORS PER THE PRODUCT'S APPLICABLE ICC-ES EVALUATION REPORT (ICC-ES-ESR). CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099 OR HILTI AT (866) 445-8827.

      A. CONCRETE ANCHORS:
         1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 3552 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
            a. SIMPSON STRONG-TIE "TITEN HD" (ICC-ES ESR-2713)
            b. SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771) OR HILTI "KWIK BOLT TZ" (ICC-ES ESR-1917)
         2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
            a. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) OR HILTI "HIT-RE 500-SD" (ICC-ES ESR-2322)

   6. PER IBC SECTION 1705, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS:
      A. CONCRETE:
         (1) DURING THE TAKING ON TEST SPECIMENS.
         (2) DURING THE PLACEMENT OF ALL REINFORCED CONCRETE.
      B. BOLTS IN CONCRETE:
         (1) DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
      C. REINFORCING STEEL (PERIODIC):
         (1) DURING THE PLACEMENT OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
      D. WELDING:
         (1) VISUAL INSPECTION OF ALL FIELD WELDS.
         (2) NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
      E. HIGH STRENGTH BOLTING:
         (1) VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR A325N BOLTS.
         (2) VERIFICATION OF SLIP CRITICAL (SC) BOLTS AT ALL BRACED FRAMES.
      F. EXPANSION AND EPOXY BOLTS:
         (1) DURING THE PLACEMENT OF ALL EXPANSION AND EPOXY BOLTS, FOR VISUAL VERIFICATION OF HOLE DIAMETER AND DEPTH AND PLACEMENT OF BOLT AND/OR EPOXY.
      G. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
         (1) THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
         (2) THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OF RECORD.
      H. SPECIAL INSPECTOR IS TO BE HIRED BY OWNER, NOT CONTRACTOR.

GENERAL FOUNDATION NOTES

1. GENERAL:
   A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY GEOMAT INC. A REPORT OF THAT INVESTIGATION DATED OCTOBER 30, 2023 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT. SOILS INFORMATION PROVIDED ON THIS SHEET IS ONLY A SUMMARY OF THAT REPORT.
   B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.

2. FIELD OBSERVATION AND TESTS:
   A. THE OWNER WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK AND SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK .
   B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
      (1) ONE FIELD DENSITY TEST PER EACH 250 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
      (2) ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
      (3) ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
      (4) FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE.
   C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

3. CLEARING AND GRUBBING:
   A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.
   B REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/ OR FOOTINGS ARE TO BE CONSTRUCTED
   C REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
   A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS.
   B. FOOTINGS ARE TO BEAR ON 5'-0" OF ENGINEERED FILL. THE FLOOR SLABS SHALL BE PLACED ON 4" OF AGGREGATE BASE COURSE OVER 3'-0" OF ENGINEERED FILL.
   C. SOME ON-SITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL MATERIAL, SEE SOIL INVESTIGATION REPORT FOR RECOMMENDATIONS.
   D. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO OPTIMUM MOISTURE CONTENT (-3%) AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
   E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN TEN (10) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.
5. STRUCTURAL FILL REQUIREMENTS:
   A. GRADATION (ASTM C136):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3"	100
NO. 4	50-100
NO. 200	20 - 50

   B. MAXIMUM PLASTICITY INDEX TO BE 12 OR LESS.
   C. MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
   D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.
   E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN TEN (10) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.
6. COMPACTION REQUIREMENTS:
   A. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%).

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

LIGHTGAGE SCHEDULE

DEPTH	GAGE	AREA IN	Ix IN4	Sx IN3	Fy KSI
C 4"	20	0.275	0.692	0.346	33
C 4"	18	0.357	0.892	0.446	33
C 6"	18	0.447	2.316	0.772	33
C 8"	18	0.537	4.634	1.159	33
T 4"	20	0.225	0.549	0.346	33
T 4"	18	0.315	0.811	0.390	33
T 6"	18	0.405	2.072	0.673	33
T 8"	18	0.496	4.144	1.015	33

"C" INDICATES STUD, 1 5/8" FLANGES
"T" INDICATES DEEP LEG TRACK, 1 1/2" FLANGES

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3/21/24
ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
GENERAL STRUCTURAL NOTES

S-001

Farmington Preschool Academy

7/23/2024 10:15:32 AM

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS / TESTING - "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 110 OF THE IBC.
2. REPORTING FOR SPECIAL INSPECTION - SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.

IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS AND TESTING:

SPECIAL INSPECTION AND VERIFICATION OF SOILS

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
Y	1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X	1705.6
Y	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X	1705.6
Y	3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	—	X	1705.6
Y	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	—	1705.6
Y	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X	1705.6

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
Y	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	—	X	1908.4	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3
N	2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706,	—	X	—	AWS D1.4 ACI 318: 26.6.4
N	b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $^5/_{16}$", AND	X	X		
N	c. INSPECT ALL OTHER WELDS.	X	X		
Y	3. INSPECT ANCHORS CAST IN CONCRETE.	—	X	—	ACI 318: 17.8.2
Y	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	X	—	ACI 318: 17.8.2.4 ACI 318: 17.8.2
Y	5. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	1904.1, 1904.2, 1908.2, 1908.3	ACI 318: CH. 19, 26.4.3, 26.4.4
Y	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	1908.10	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12
Y	7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	1908.6, 1908.7 1908.8	ACI 318: 26.5
Y	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	1908.9	ACI 318: 26.5.3 -26.5.5
N	9. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	—	ACI 318: 26.11.2
Y	10. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	—	ACI 318: 26.11.1.2(b)

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
	1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
Y	a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	—	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360 SECTION A3.3
Y	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X	—	—
	2. INSPECTION OF HIGH-STRENGTH BOLTING:				
Y	a. SNUG-TIGHT JOINTS	—	X	1705.2.1	AISC 360, SECTION M2.5
Y	b. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	—	X		
Y	c. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	X	—		
	3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
Y	a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	—	X		AISC 360 SECTION M5.5
Y	b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X		APPLICABLE ASTM MATERIAL STANDARDS
Y	c. MANUFACTURERS CERTIFIED TEST REPORTS	—	X		
	4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
Y	a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	—	—	AISC 360, SECTION A3.5
Y	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	—	—	—
	5. INSPECTION OF WELDING: a. STRUCTURAL STEEL :				
Y	1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	—	1705.2	AWS D1.1
N	2) MULTIPASS FILLET WELDS.	X	—		
N	3) SINGLE-PASS FILLET WELDS > 5/16"	X	—		
Y	4) PLUG & SLOT WELDS	X	—		
Y	5) SINGLE-PASS FILLET WELDS < 5/16"	—	X		
N	6) ROOF DECK WELDS.	—	X	—	AWS D1.3
N	b. REINFORCING STEEL:	—	—	—	AWS D1.4 ACI 318 3.5.2
N	1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	—	X		
N	2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	—		
Y	3) SHEAR REINFORCEMENT.	X	—		
Y	4) OTHER REINFORCING STEEL.	—	X		
	6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:				
N	a. DETAILS SUCH AS BRACING AND STIFFENING.	—	X	1705.1.1	—
Y	b. MEMBER LOCATIONS.	—	X		
Y	c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—	X		

REQUIRED SPECIAL INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION
	1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
Y	a. END CONNECTIONS - WELDED OR BOLTED.	—	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
	b. BRIDGING - HORIZONTAL OR DIAGONAL.	—		
Y	1. STANDARD BRIDGING.	—	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
Y	2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		X	

SPECIAL INSPECTION AND VERIFICATION OF STEEL DECK CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION 1705.2.2
Y	VERIFY DECK MATERIALS AND MILL CERTIFICATIONS	—	X	SDI-QA/QC
Y	VERIFY FIELD WELDING OF DECK	—	X	AWS D1.3, SDI C, SDI NC, SDI RD
Y	VERIFY MECHANICAL FASTENERS	—		SDI C, SDI NC, SDI RD
Y	VERIFY STEEL DECK INSTALLATION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS			SDI C, SDI NC, SDI RD

SPECIAL INSPECTION AND VERIFICATION OF COLD FORMED METAL FRAMING

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION
Y	1. SEATING OF STUDS IN TRACK.	—	X	—
Y	2. WELDING OF ELEMENTS.	—	X	1705.12.3
Y	3. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS.	—	X	1705.12.3
Y	4. STEEL STUD BRIDGING SPACING AND END ATTACHMENT.	—	X	1705.12.3
Y	5. WELDED CONNECTIONS ARE TOUCHED UP WITH PAINT.	—	X	1705.12.3
Y	6. VERIFY STRUCTURAL STUD SIZE, DEPTH, AND GAGE.	—	X	1705.12.3

SPECIAL INSPECTION OF SEISMIC FORCE RESISTING SYSTEMS (REQUIRED WHEN SDC = C, D, E OR F) AND DESIGNATED SEISMIC SYSTEMS (REQUIRED WHEN SDC=D,E OR F)

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION
	1. STRUCTURAL STEEL:			
Y	a. STRUCTURAL WELDING REQUIRED BY AISC 341.	X	—	1705.2.1
	2. STRUCTURAL WOOD:			
N	a. FIELD GLUING OPERATIONS OF ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X	—	1705.11.1
N	b. NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD DOWNS. (ENGINEERS NOTE: SEE SECTIONS 1707.3 & 1705.3 EXCEPTION.)	—	X	1705.11.1
	3. COLD - FORMED STEEL FRAMING:			
Y	a. WELDING OF ELEMENTS IN SEISMIC-FORCE RESISTANCE	—	X	1705.12.1.2
Y	b. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM.	—	X	1705.12.1.2
Y	4. ANCHORAGE.	—	X	1705.12.7

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

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DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
STRUCTURAL SPECIAL INSPECTIONS

S-002

7/23/2024 10:15:33 AM
Farmington Preschool Academy

OPEN-WEB JOIST DESIGN GENERAL NOTES

A. REFER TO THE "STEEL JOISTS" SECTION ON SHEET S-001 FOR GENERAL JOIST REQUIREMENTS.

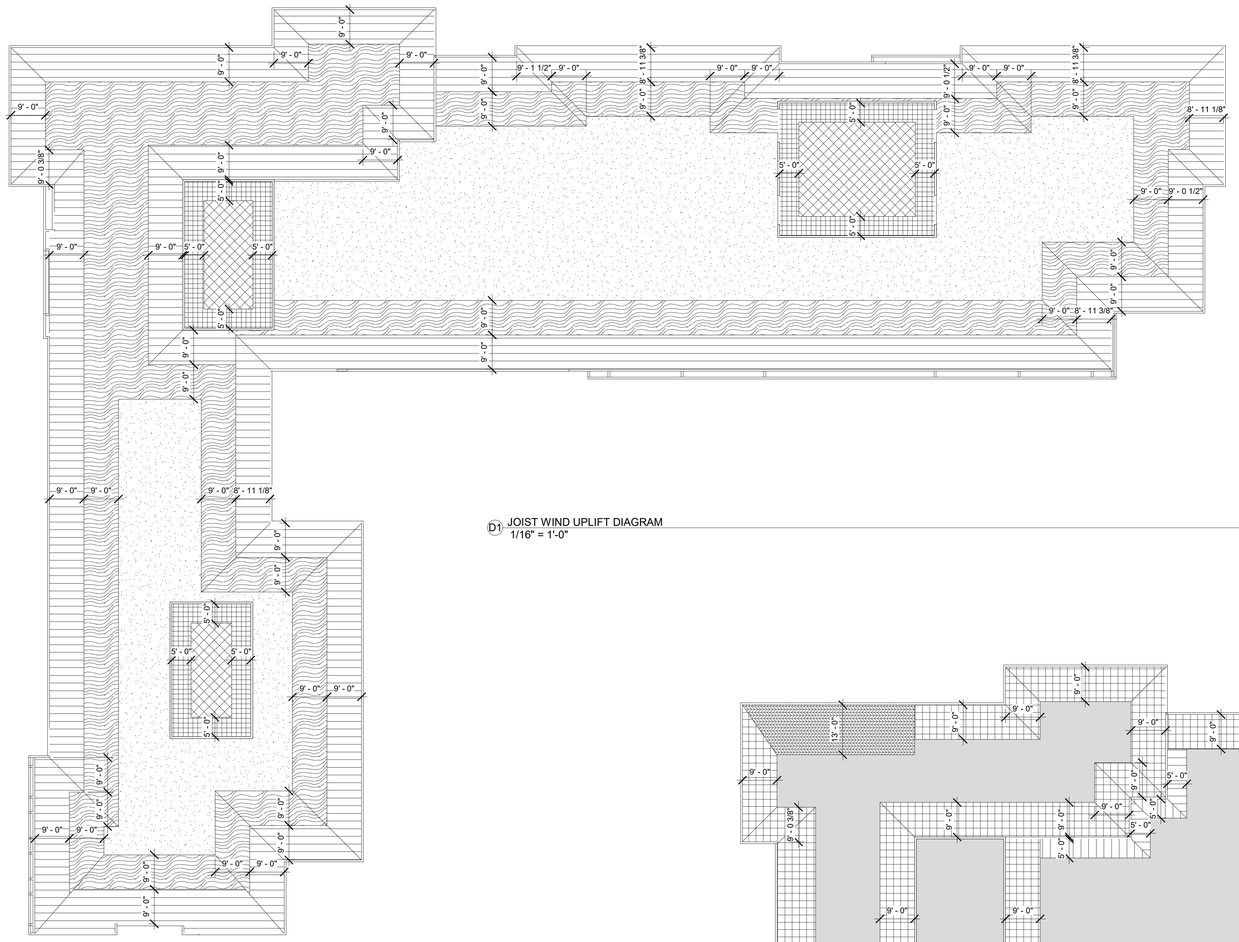
B. JOIST DESIGNER SHALL DESIGN JOISTS FOR ALL SPECIAL LOADINGS (POINT LOADS, AXIAL LOADS, MOMENTS, ETC.) SHOWN ON THE STRUCTURAL DRAWINGS.

C. JOIST DESIGNATIONS SHOWN ON THE FRAMING PLANS HAVE BEEN SELECTED BASED ON LOAD COMBINATIONS INCLUDING DEADLOAD, ROOF LIVELOAD AND MINIMUM FLAT ROOF SNOW LOAD ONLY. LOAD CASES FOR SNOW DRIFT AND WIND UPLIFT HAVE NOT BEEN TAKEN INTO ACCOUNT. THE JOIST DESIGNER SHALL DESIGN JOISTS TAKING INTO ACCOUNT THESE ADDITIONAL LOAD CASES.

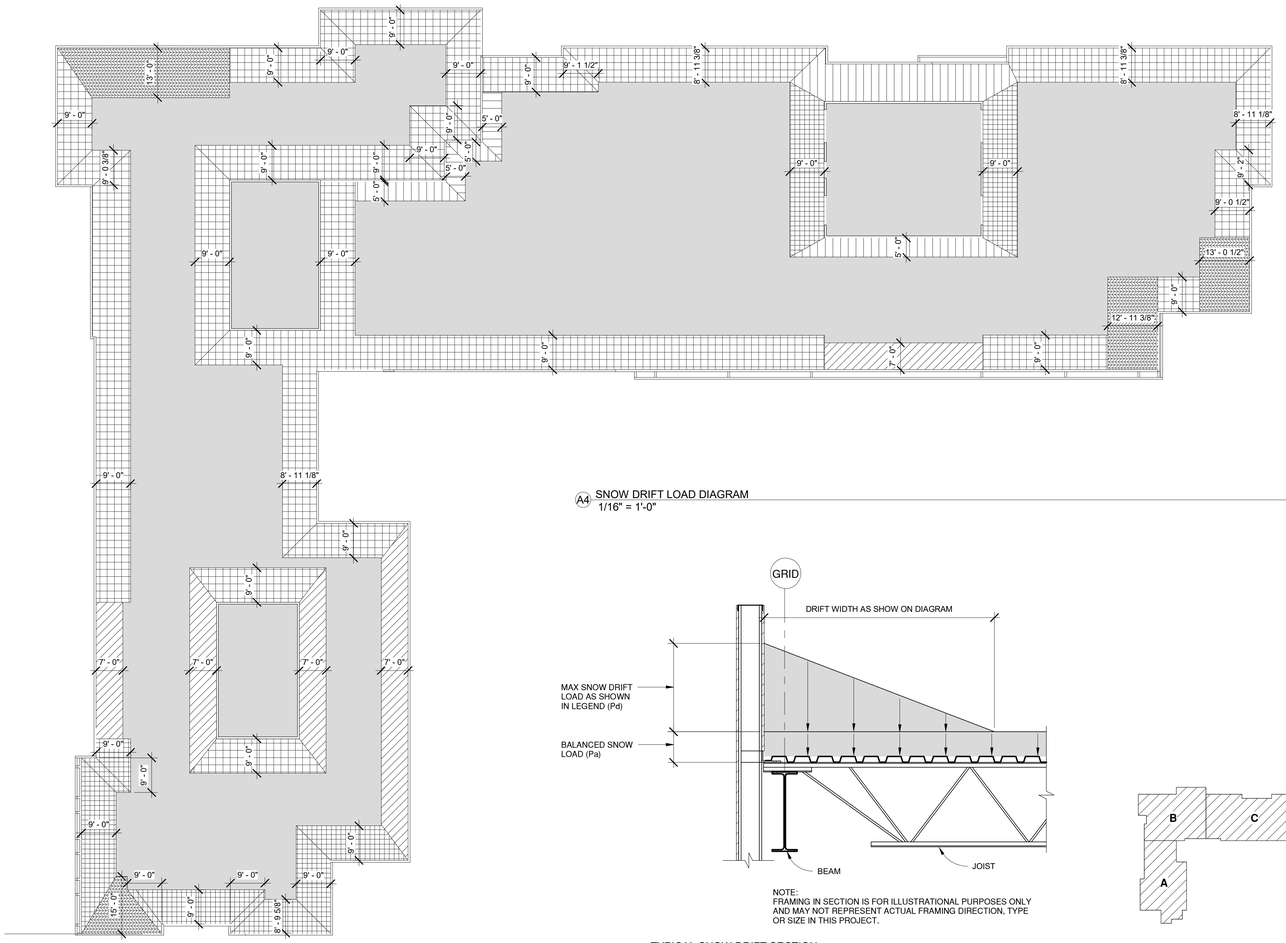
D. THE "JOIST WIND UPLIFT LOAD DIAGRAM" AND THE "JOIST SNOW DRIFT LOAD DIAGRAM" SHOWN ON THIS SHEET REFLECT BASIC LOAD CASE VALUES (1.0"S AND 1.0"W RESPECTIVELY). THE JOIST DESIGNER SHALL INCORPORATE THESE LOAD CASES INTO THE APPROPRIATE LOAD COMBINATIONS AS SET FORTH IN ASCE 7-16.

E. FOR SNOW LOADS, TWO INDEPENDENT CASES SHALL BE CONSIDERED:
   a. "CASE A" SHALL ACCOUNT FOR THE MINIMUM FLAT ROOF SNOW LOAD AS LISTED IN THE JOIST SNOW LOADING LEGEND (Pf), APPLIED OVER ENTIRE ROOF.
   b. "CASE B" SHALL ACCOUNT FOR THE BALANCED ROOF SNOW LOAD AS LISTED IN THE JOIST SNOW LOADING LEGEND, PLUS DRIFT LOADS AS SHOWN ON THE "JOISTS SNOW DRIFT LOAD DIAGRAM" (Ps + Pd).

F. BASIC LOAD CASES FOR JOIST DESIGN ARE AS FOLLOWS:
   a. DEAD LOAD .....20 PSF
   b. ROOF LIVE LOAD.....20 PSF
   c. WIND UPLIFT LOADS.....PER D1/S-003
   d. MINIMUM FLAT ROOF SNOW LOAD (Pf).....19 PSF
   e. BALANCED ROOF SNOW LOADS (Pd).....PER A4 /S-003



D1 JOIST WIND UPLIFT DIAGRAM
1/16" = 1'-0"



A4 SNOW DRIFT LOAD DIAGRAM
1/16" = 1'-0"

JOIST WIND UPLIFT LOADING LEGEND

NOTE: ALL WIND UPLIFT LOADS ARE SHOWN AS ULTIMATE LOADS.

- INDICATES 17 PSF LOAD
- INDICATES 25 PSF LOAD
- INDICATES 34 PSF LOAD
- INDICATES 37 PSF LOAD
- INDICATES 43 PSF LOAD

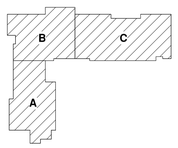
JOIST SNOW DRIFT LOADING LEGEND

NOTE: ALL SNOW DRIFT LOADS ARE SHOWN AS UNFACTORED LOADS.

- INDICATES BALANCED ROOF SNOW LOAD OVER ENTIRE ROOF (Ps). SEE SHEET GENERAL NOTES
- INDICATES 28 PSF DRIFT LOAD (Pd)
- INDICATES 36 PSF DRIFT LOAD (Pd)
- INDICATES 47 PSF DRIFT LOAD (Pd)
- INDICATES 56 PSF DRIFT LOAD (Pd)

NOTE:
FRAMING IN SECTION IS FOR ILLUSTRATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ACTUAL FRAMING DIRECTION, TYPE OR SIZE IN THIS PROJECT.

A5 TYPICAL SNOW DRIFT SECTION
3/4" = 1'-0"



KEY PLAN

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ROOF JOIST LOAD DIAGRAMS AND DETAILS

S-003

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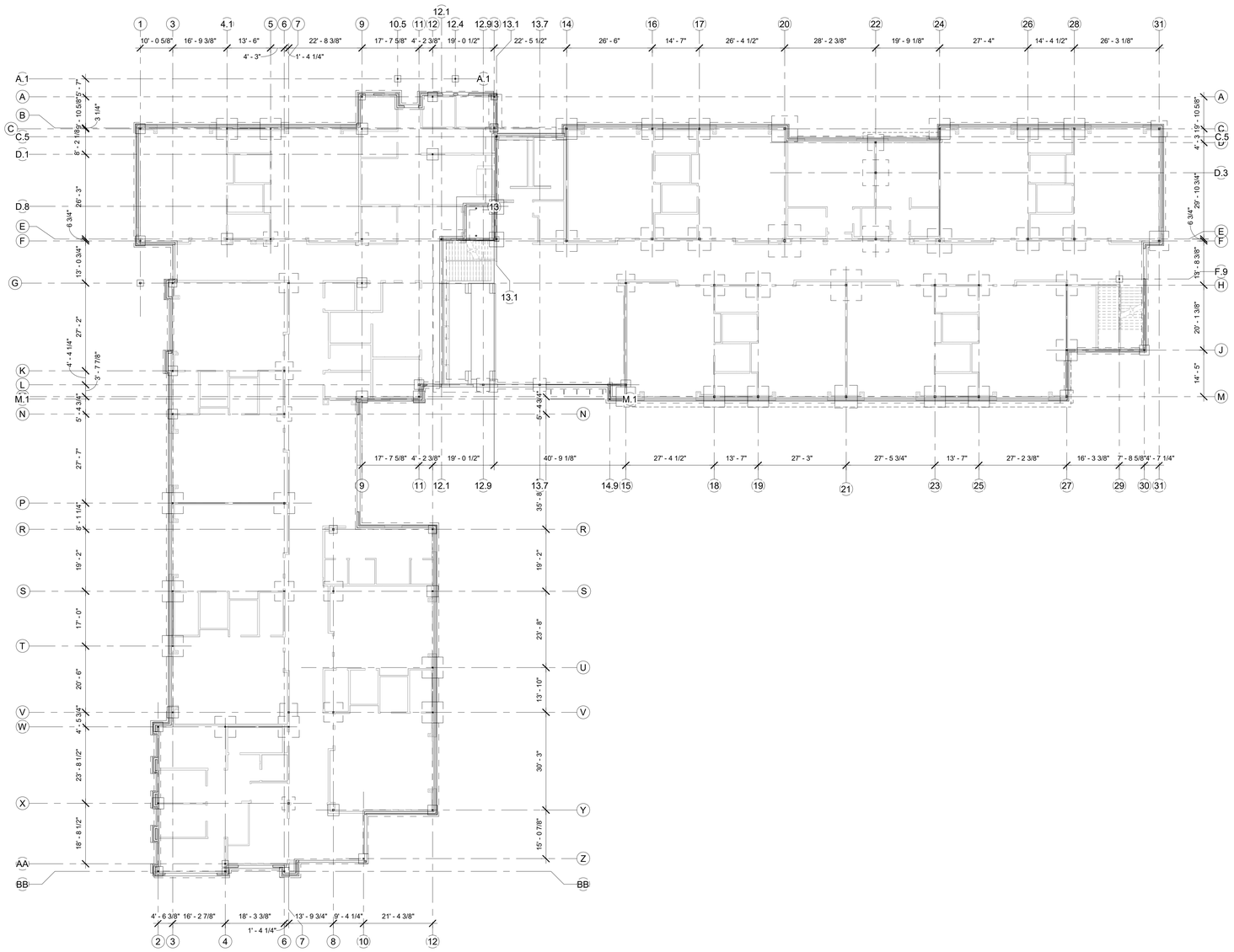
Farmington Preschool Academy



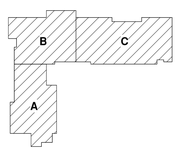
A1 OVERALL FOUNDATION PLAN
1/16" = 1'-0"

GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEM WALL UNLESS NOTED OTHERWISE.

B. REFER TO SHEETS S-101-A, S-101B AND S-101C FOR ENLARGED FOUNDATION PLANS.

C. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.



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SHEET TITLE
OVERALL FOUNDATION PLAN

S-101

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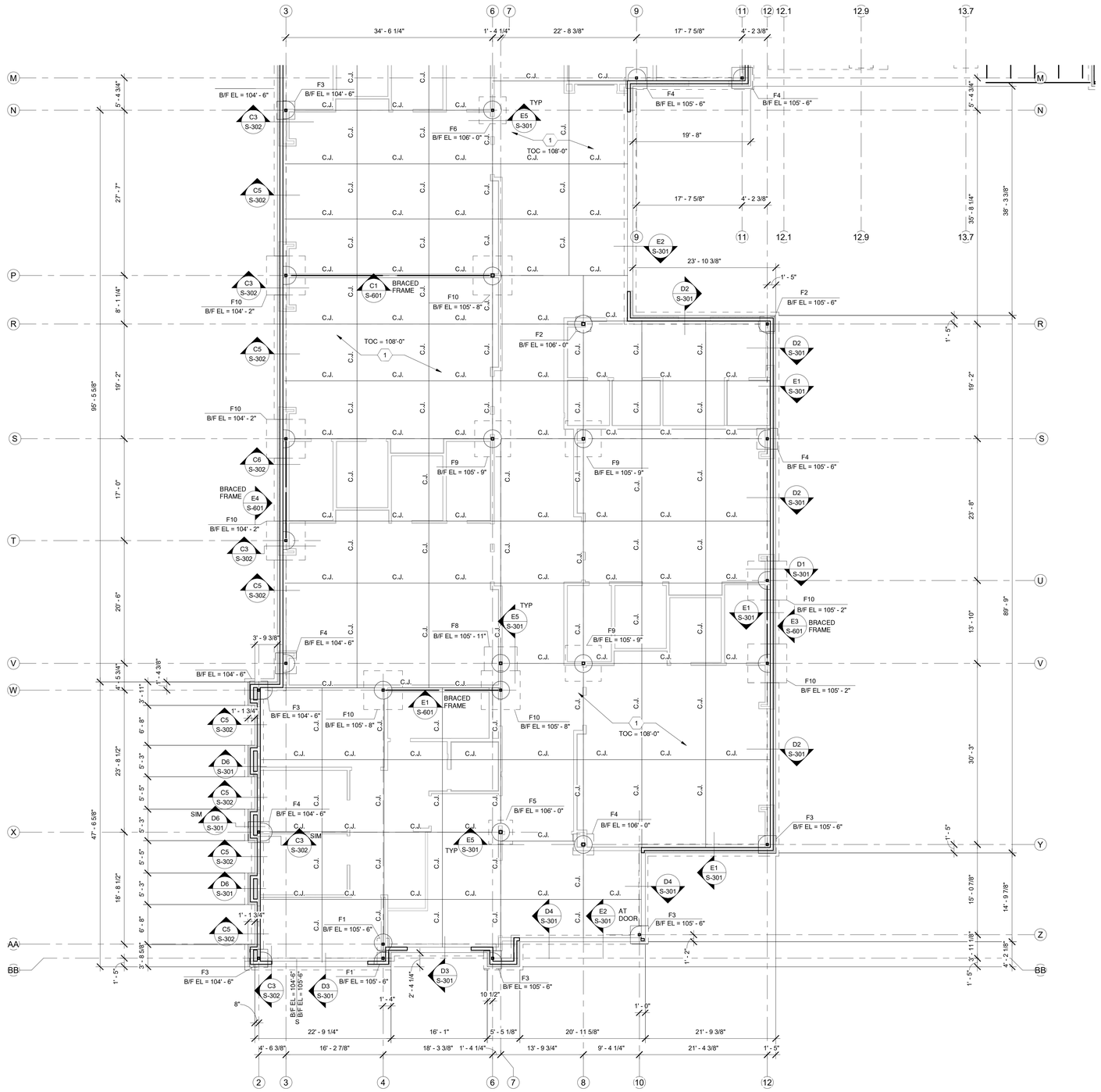


ENLARGED FOUNDATION PLAN
GROUND LEVEL 'A'
1/8" = 1'-0"

GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

D. S $\frac{\text{B/F EL = ##}}{\text{B/F EL = ##}}$ INDICATES STEP IN FOOTING, SEE E4/S-501.

E. T.O.C. = TOP OF CONCRETE.

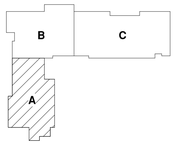
KEYED NOTES

1 5" THICK CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWF (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 108'-0" - MSLE - SEE CIVIL.

2 RECESS TOP OF SLAB 2" TOTAL, SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB.

ISOLATED FOOTING SCHEDULE

Mark	Length	Width	DEPTH	REINFORCING
F1	2' - 0"	2' - 0"	1' - 0"	(3) #4 EACH WAY
F2	2' - 6"	2' - 6"	1' - 0"	(4) #4 EACH WAY
F3	3' - 0"	3' - 0"	1' - 0"	(3) #5 EACH WAY
F4	3' - 6"	3' - 6"	1' - 0"	(5) #4 EACH WAY
F5	4' - 0"	4' - 0"	1' - 0"	(4) #5 EACH WAY
F6	4' - 6"	4' - 6"	1' - 0"	(6) #4 EACH WAY
F7	5' - 0"	5' - 0"	1' - 0"	(7) #4 EACH WAY
F8	5' - 6"	5' - 6"	1' - 1"	(7) #5 EACH WAY
F9	6' - 0"	6' - 0"	1' - 3"	(8) #5 EACH WAY
F10	6' - 6"	6' - 6"	1' - 4"	(9) #5 EACH WAY
F11	7' - 0"	7' - 0"	1' - 5"	(11) #5 EACH WAY
F12	7' - 6"	7' - 6"	1' - 6"	(12) #5 EACH WAY
F13	8' - 0"	8' - 0"	1' - 7"	(10) #6 EACH WAY
F14	9' - 6"	9' - 6"	1' - 10"	(14) #6 EACH WAY
F15	10' - 0"	10' - 0"	2' - 0"	(21) #5 EACH WAY



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ENLARGED FOUNDATION PLAN
GROUND LEVEL 'A'

S-101A

Farmington Preschool Academy

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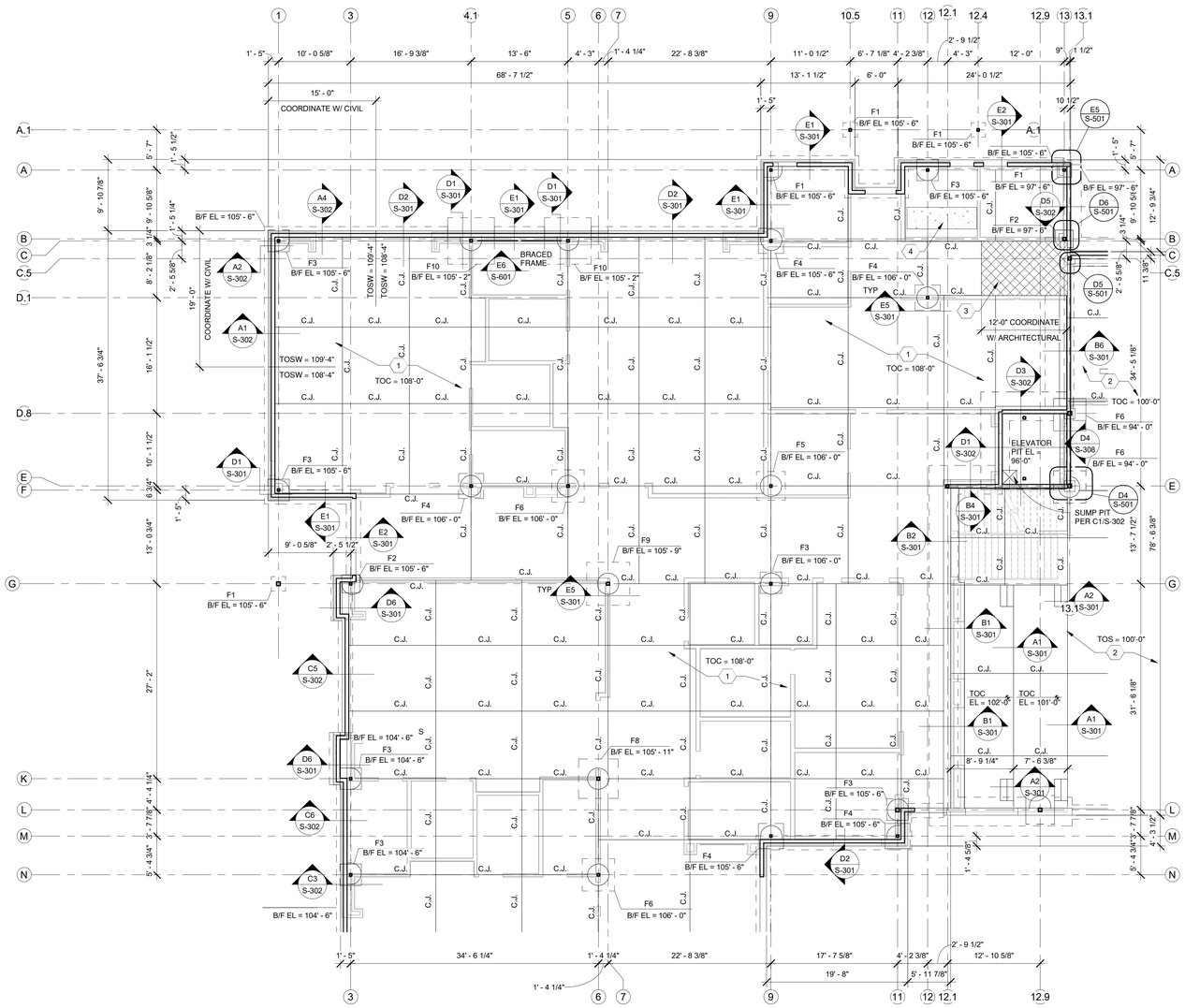


ENLARGED FOUNDATION PLAN
GROUND LEVEL 'B'
1/8" = 1'-0"

GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

D. S—B/F EL = ##, B/F EL = ## — INDICATES STEP IN FOOTING, SEE E4/S-501.

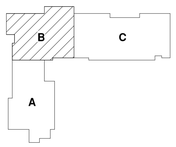
E. T.O.C. = TOP OF CONCRETE.

KEYED NOTES

1. 5" THICK CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWF (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 108'-0" U.N.O. - MSLE - SEE CIVIL.
2. 5" THICK CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWF (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" U.N.O. - MSLE - SEE CIVIL.
3. RECESS TOP OF SLAB 8" TOTAL AT FREEZER/COOLER, SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB PER DETAIL A4/S-301.
4. MECHANICAL HOUSEKEEPING PAD - 6" THICK CONCRETE REINFORCED WITH #3 @ 16" OC IN CENTER OF SLAB. SEE MECHANICAL FOR SIZE AND LOCATION.
5. RECESS TOP OF SLAB 2" TOTAL, SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB.

ISOLATED FOOTING SCHEDULE

Mark	Length	Width	DEPTH	REINFORCING
F1	2' - 0"	2' - 0"	1' - 0"	(3) #4 EACH WAY
F2	2' - 6"	2' - 6"	1' - 0"	(4) #4 EACH WAY
F3	3' - 0"	3' - 0"	1' - 0"	(3) #5 EACH WAY
F4	3' - 6"	3' - 6"	1' - 0"	(5) #4 EACH WAY
F5	4' - 0"	4' - 0"	1' - 0"	(4) #5 EACH WAY
F6	4' - 6"	4' - 6"	1' - 0"	(6) #4 EACH WAY
F7	5' - 0"	5' - 0"	1' - 0"	(7) #4 EACH WAY
F8	5' - 6"	5' - 6"	1' - 1"	(7) #5 EACH WAY
F9	6' - 0"	6' - 0"	1' - 3"	(8) #5 EACH WAY
F10	6' - 6"	6' - 6"	1' - 4"	(9) #5 EACH WAY
F11	7' - 0"	7' - 0"	1' - 5"	(11) #5 EACH WAY
F12	7' - 6"	7' - 6"	1' - 6"	(12) #5 EACH WAY
F13	8' - 0"	8' - 0"	1' - 7"	(10) #6 EACH WAY
F14	9' - 6"	9' - 6"	1' - 10"	(14) #6 EACH WAY
F15	10' - 0"	10' - 0"	2' - 0"	(21) #5 EACH WAY



KEY PLAN
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ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	JR

SHEET TITLE
ENLARGED FOUNDATION PLAN
GROUND LEVEL 'B'

S-101B

7/23/2024 10:15:38 AM

Farmington Preschool Academy

GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL UNLESS NOTED OTHERWISE.

B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.

C. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

D. S — B/F EL = ## / B/F EL = ## — INDICATES STEP IN FOOTING, SEE E4/S-501.

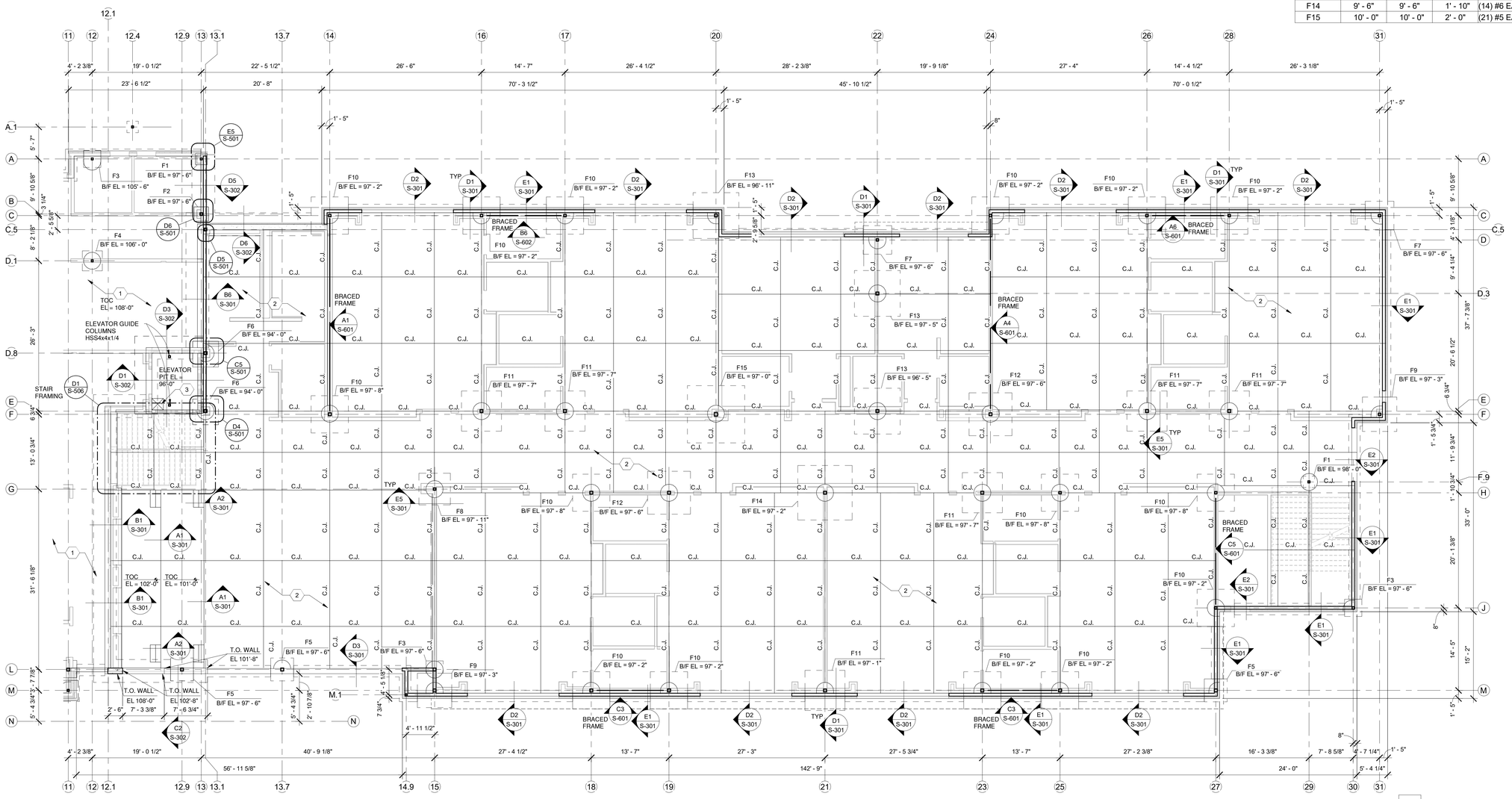
E. T.O.C. = TOP OF CONCRETE.

KEYED NOTES

1. 5" THICK CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWF (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 108'-0" - MSLE - SEE CIVIL.
2. 5" THICK CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWF (CENTERED IN SLAB) OVER 4" AGGREGATE BASE COURSE OVER VAPOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.
3. SUMP PIT PER DETAIL C1/S-302 AS OCCURS - COORDINATE W/ ELEVATOR MANUFACTURER.

ISOLATED FOOTING SCHEDULE

Mark	Length	Width	DEPTH	REINFORCING
F1	2' - 0"	2' - 0"	1' - 0"	(3) #4 EACH WAY
F2	2' - 6"	2' - 6"	1' - 0"	(4) #4 EACH WAY
F3	3' - 0"	3' - 0"	1' - 0"	(3) #5 EACH WAY
F4	3' - 6"	3' - 6"	1' - 0"	(5) #4 EACH WAY
F5	4' - 0"	4' - 0"	1' - 0"	(4) #5 EACH WAY
F6	4' - 6"	4' - 6"	1' - 0"	(6) #4 EACH WAY
F7	5' - 0"	5' - 0"	1' - 0"	(7) #4 EACH WAY
F8	5' - 6"	5' - 6"	1' - 1"	(7) #5 EACH WAY
F9	6' - 0"	6' - 0"	1' - 3"	(8) #5 EACH WAY
F10	6' - 6"	6' - 6"	1' - 4"	(9) #5 EACH WAY
F11	7' - 0"	7' - 0"	1' - 5"	(11) #5 EACH WAY
F12	7' - 6"	7' - 6"	1' - 6"	(12) #5 EACH WAY
F13	8' - 0"	8' - 0"	1' - 7"	(10) #6 EACH WAY
F14	9' - 6"	9' - 6"	1' - 10"	(14) #6 EACH WAY
F15	10' - 0"	10' - 0"	2' - 0"	(21) #5 EACH WAY



ENLARGED FOUNDATION PLAN LOWER LEVEL 'C'
1/8" = 1'-0"

KEY PLAN
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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
ENLARGED FOUNDATION PLAN LOWER LEVEL 'C'

S-101C

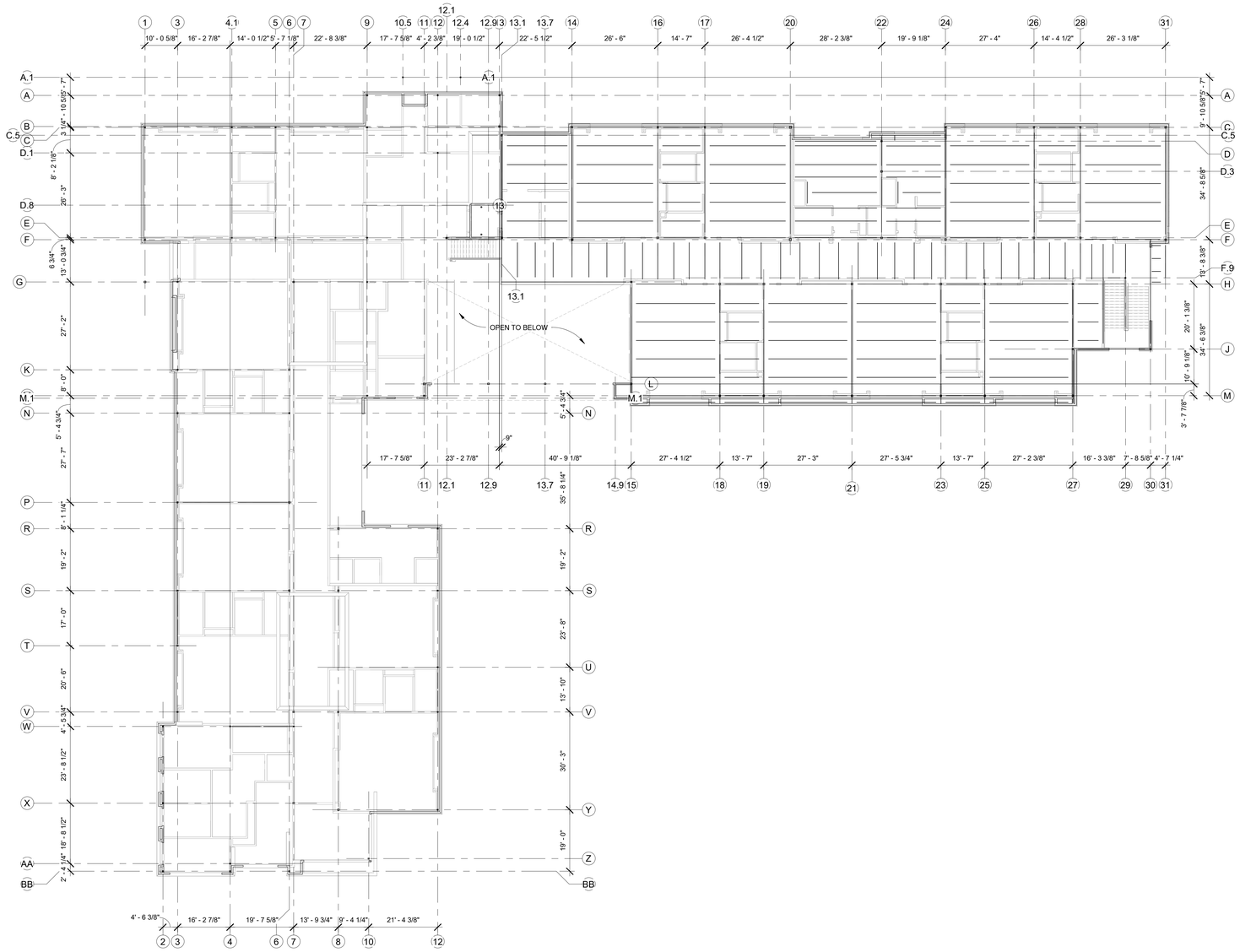
7/23/2024 10:15:40 AM

Farmington Preschool Academy

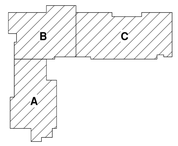
GENERAL NOTES

A. REFER TO SHEET S-102-C FOR ENLARGED UPPER LEVEL FLOOR FRAMING PLAN 'C'.

B. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.



A1 OVERALL UPPER LEVEL FLOOR FRAMING PLAN
1/16" = 1'-0"



KEY PLAN

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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CHECKED BY:	Checker

SHEET TITLE

OVERALL UPPER LEVEL FLOOR FRAMING PLAN

S-102

Farmington Preschool Academy

7/23/2024 10:15:42 AM

GENERAL NOTES

A. EQUALLY SPACE FLOOR BEAMS BETWEEN SUPPORTS (6'-0" MAX) UNLESS NOTED OTHERWISE.

B. (xx) INDICATES NUMBER OF 3/4" DIA x 4" LONG H.A.S. EQUALLY SPACED ON BEAM UNLESS NOTED OTHERWISE.

C. FRAME AROUND FLOOR OPENINGS PER B1/S-505.

D. FRAME AROUND ROOF DECK OPENINGS PER DETAIL B3/S-505 UNO.

E. L-# INDICATES LIGHTGAGE STEEL LINTEL, SEE C1/S-505 FOR LIGHTGAGE STEEL LINTEL SCHEDULE AND DETAILS AT ALL EXTERIOR OPENINGS AND INTERIOR BEARING WALLS.

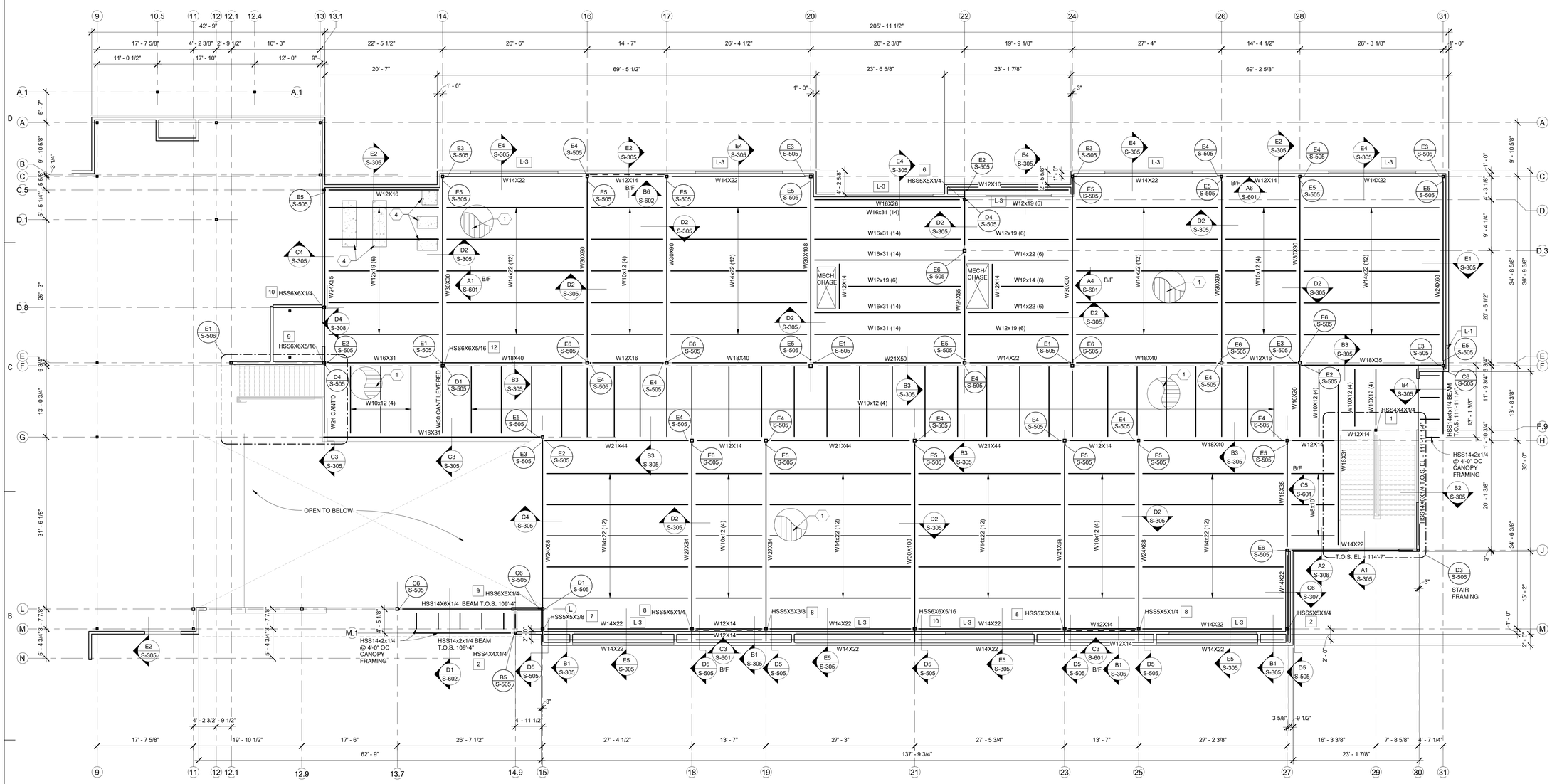
F. DIMENSIONS ARE TO EXTERIOR FACE OF STUD WALL U.N.O.

G. # INDICATES BASE PLATE TYPE PER E1/S-501.

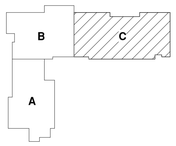
H. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

KEYED NOTES

1. 3" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWF OVER 2" TYPE "VL", 20 GA GALVANIZED COMPOSITE DECK (6" TOTAL THICKNESS) 2-SPAN MIN. ATTACH DECK W/ (4) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET TO EACH SUPPORT AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC. FINISH FLOOR EL = 115'-0". MSLE - SEE CIVIL. SAWCUT 1/8" WIDE x 3/4" DEEP JOINTS @ 12'-0" OC MAX EACH WAY.
2. 1 1/2" TYPE "B", 20 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH (5) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.
3. L1x1x7/64 HORIZONTAL BRIDGING EQUALLY SPACED AS SHOWN WELD TO TOP AND BOTTOM CHORDS OF JOISTS.
4. MECHANICAL HOUSEKEEPING PAD - 6" THICK CONCRETE REINFORCED WITH #3 @ 16" OC EACH WAY SEE MECHANICAL FOR SIZE AND LOCATION(S).



ENLARGED UPPER LEVEL FLOOR FRAMING PLAN - C
A1 1/8" = 1'-0"



KEY PLAN

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

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CHECKED BY:	MJW

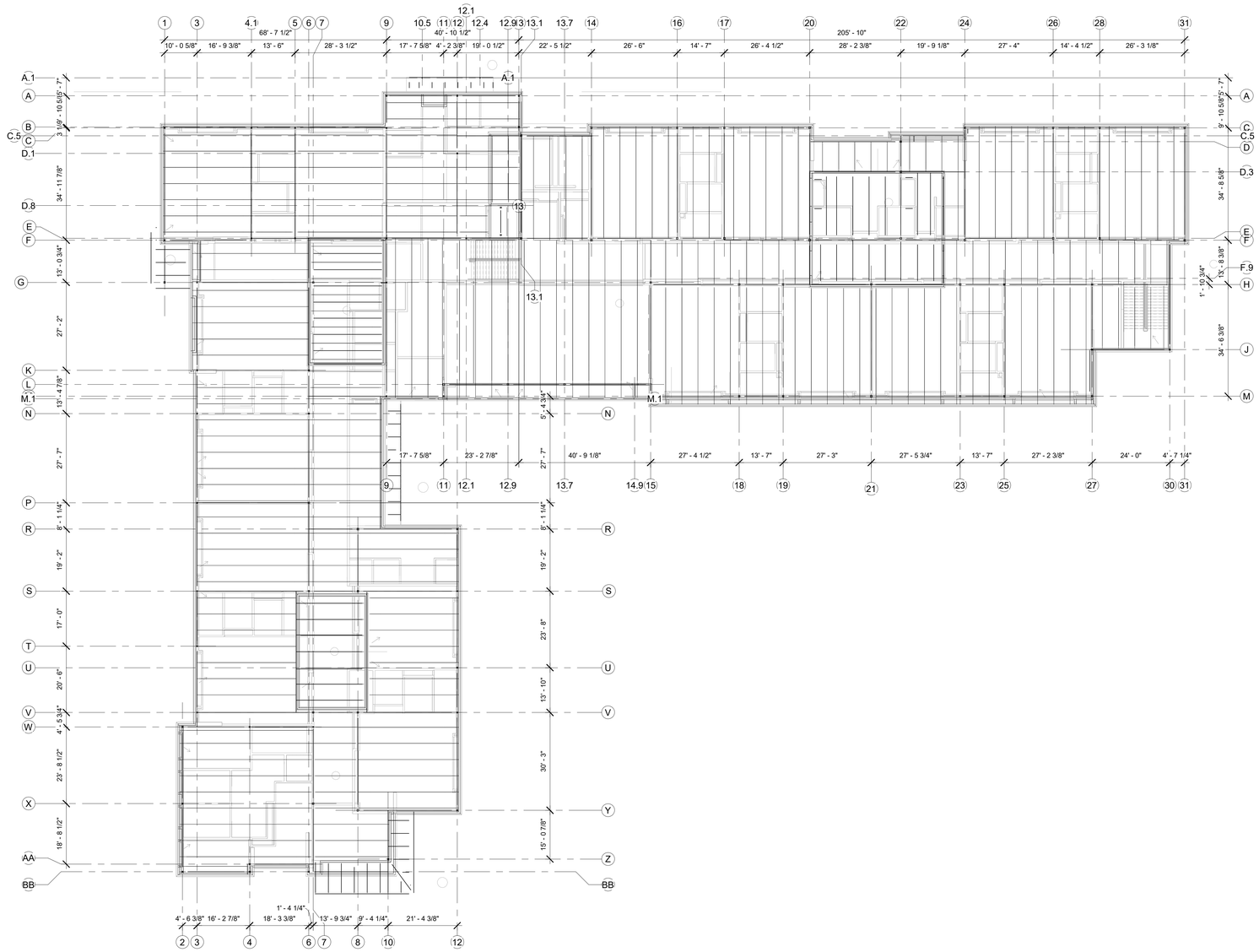
SHEET TITLE

ENLARGED UPPER LEVEL FLOOR FRAMING PLAN 'C'

S-102C

7/23/2024 10:15:45 AM

Farmington Preschool Academy



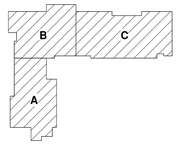
A1 OVERALL ROOF FRAMING PLAN
1/16" = 1'-0"

GENERAL NOTES

A. ALL PERIMETER DIMENSIONS ARE TO FACE OF STUD WALL UNLESS NOTED OTHERWISE.

B. REFER TO SHEETS S-103A, S-103B AND S-103C FOR ENLARGED ROOF FRAMING PLANS.

C. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.



KEY PLAN N.T.S.

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

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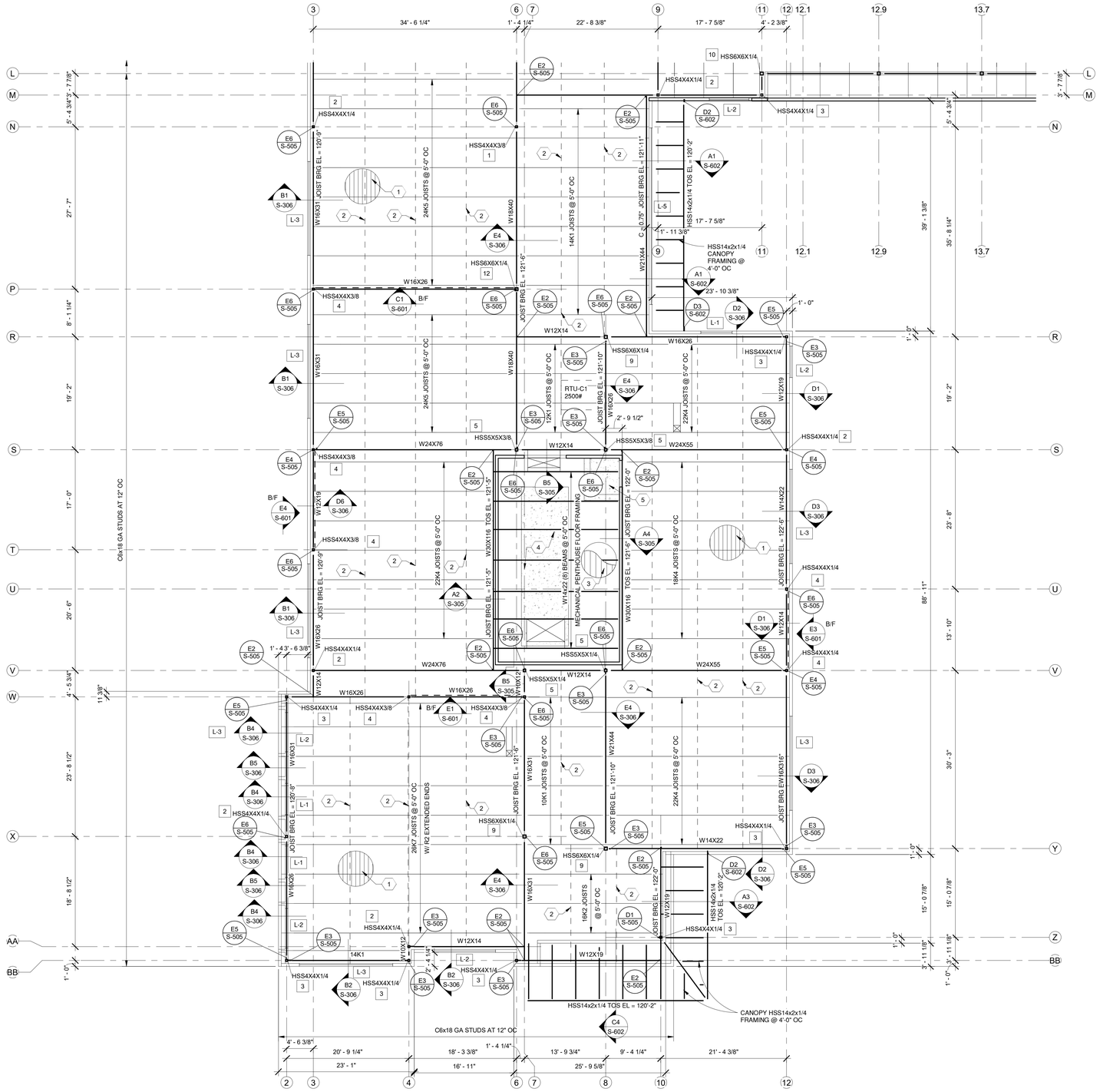
SHEET TITLE
OVERALL ROOF FRAMING PLAN

S-103

7/23/2024 10:15:47 AM

Farmington Preschool Academy



A1 ENLARGED ROOF FRAMING PLAN - A
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE JOIST BRIDGING PER LATEST SJI REQUIREMENTS.

B. DESIGN JOISTS FOR 10 PSF NET UPLIFT TYPICAL UNLESS NOTED OTHERWISE.

C. FRAME AROUND ROOF DECK OPENINGS PER DETAIL B3/S-505 UNO. COORDINATE ROOF PENETRATIONS WITH MECHANICAL.

D. L-# INDICATES LIGHTGAGE STEEL LINTEL. SEE C1/S-505 FOR LIGHTGAGE STEEL LINTEL SCHEDULE AND DETAILS AT ALL EXTERIOR OPENINGS AND INTERIOR BEARING WALLS.

E. DIMENSIONS ARE TO EXTERIOR FACE OF STUD WALL U.N.O.

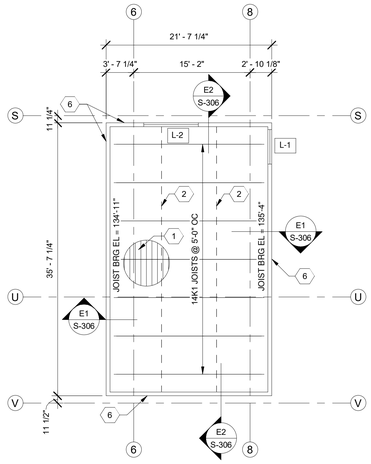
F. # INDICATES BASE PLATE TYPE PER E1/S-501.

G. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

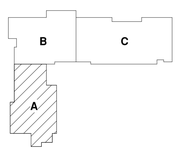
H. (xx) INDICATES NUMBER OF 3/4" DIA x 4" LONG H.A.S. EQUALLY SPACED ON BEAM UNLESS NOTED OTHERWISE.

KEYED NOTES

1. 1 1/2" TYPE "B", 20 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH (5) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.
2. L1x1x7/64 HORIZONTAL BRIDGING EQUALLY SPACED AS SHOWN WELD TO TOP AND BOTTOM CHORDS OF JOISTS.
3. 3" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWF OVER 2" TYPE "VL", 20 GA GALVANIZED COMPOSITE DECK (5" TOTAL THICKNESS) 2-SPAN MIN. ATTACH DECK W/ (4) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET TO EACH SUPPORT AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC. FINISH FLOOR EL = 122'-0". MSLE - SEE CIVIL. SAWCUT 1/8" WIDE x 3/4" DEEP JOINTS @ 12'-0" OC MAX EACH WAY.
4. MECHANICAL HOUSEKEEPING PAD - 6" THICK CONCRETE REINFORCED WITH #3 @ 16" OC IN CENTER OF SLAB. SEE MECHANICAL FOR SIZE AND LOCATION(S). SEE A1/S-505 FOR ATTACHMENT TO FLOOR SLAB.
5. 12" THICK CONCRETE STOOP AND STEPS REINFORCED WITH #4 @ 16" OC IN CENTER OF SLAB. SEE ARCHITECTURAL FOR DIMENSIONS AND LOCATION. SEE A1/S-505 FOR ATTACHMENT TO FLOOR SLAB.
6. 5/8" APA RATED SHEATHING ATTACH TO STUDS W/ #8 TEK SCREWS AT 6" OC AT PANEL EDGES AND 12" OC IN FIELD.



B6 ENLARGED MECHANICAL PENTHOUSE ROOF FRAMING PLAN - A
1/8" = 1'-0"



KEY PLAN

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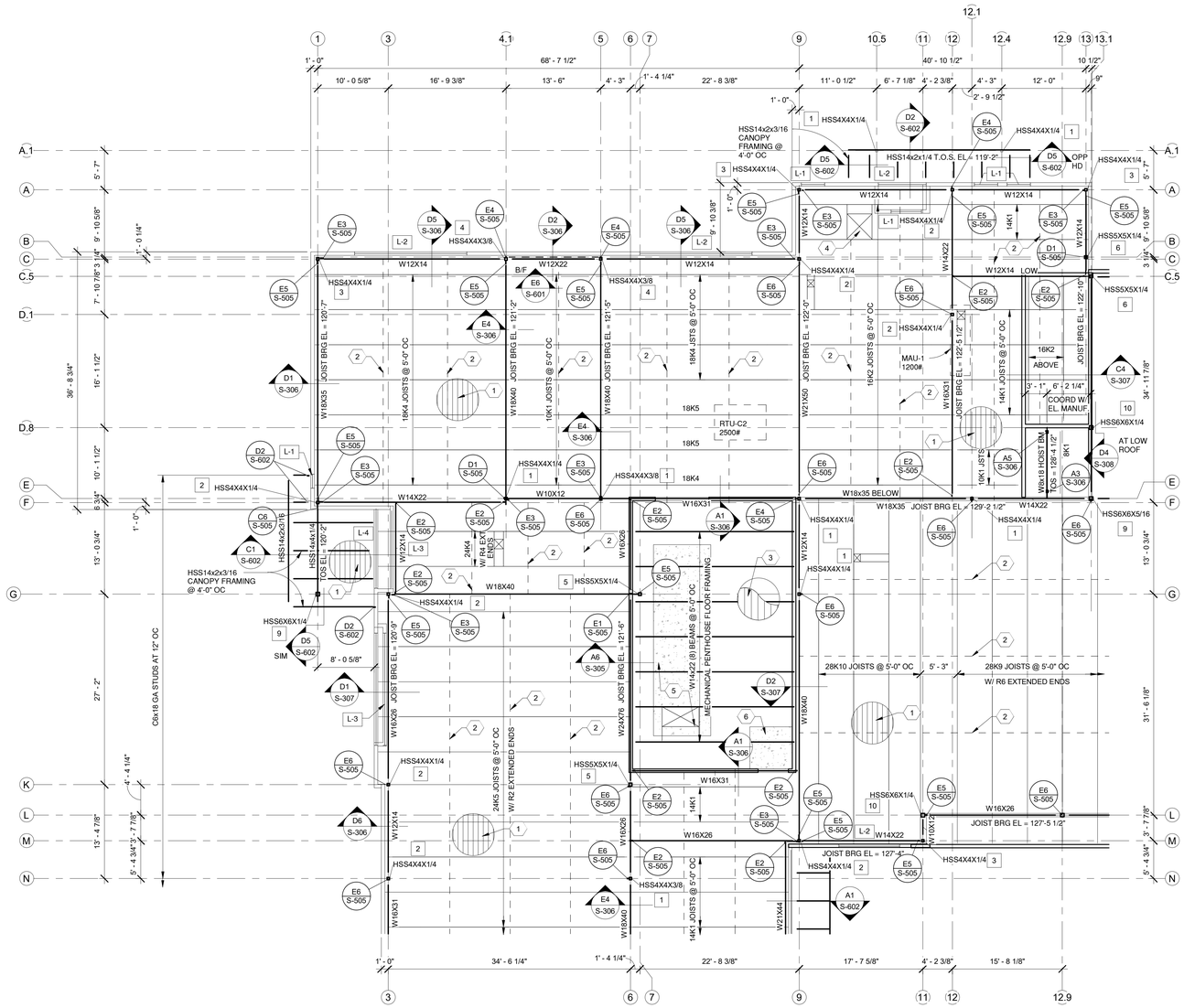
SHEET TITLE

ENLARGED ROOF FRAMING PLAN 'A'

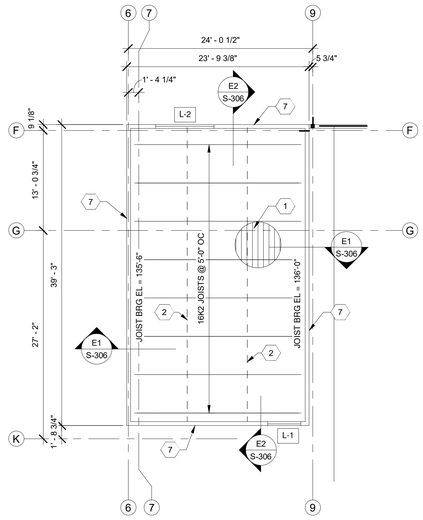
S-103A

7/23/2024 10:15:50 AM

Farmington Preschool Academy



A1 ENLARGED ROOF FRAMING PLAN - B
1/8" = 1'-0"



B5 ENLARGED MECHANICAL PENTHOUSE ROOF FRAMING PLAN - B
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE JOIST BRIDGING PER LATEST SJI REQUIREMENTS.

B. DESIGN JOISTS FOR 10 PSF NET UPLIFT TYPICAL UNLESS NOTED OTHERWISE.

C. FRAME AROUND ROOF DECK OPENINGS PER DETAIL B3/S-505 UNO. COORDINATE ROOF PENETRATIONS WITH MECHANICAL.

D. L-# INDICATES LIGHTGAGE STEEL LINTEL, SEE C1/S-505 FOR LIGHTGAGE STEEL LINTEL SCHEDULE AND DETAILS AT ALL EXTERIOROPENINGS AND INTERIOR BEARING WALLS.

E. DIMENSIONS ARE TO EXTERIOR FACE OF STUD WALL U.N.O.

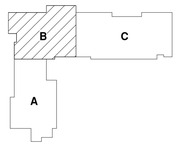
F. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

G. # INDICATES BASE PLATE TYPE PER E1/S-501.

H. (xx) INDICATES NUMBER OF 3/4" DIA x 4" LONG H.A.S. EQUALLY SPACED ON BEAM UNLESS NOTED OTHERWISE.

KEYED NOTES

1. 1 1/2" TYPE "B", 20 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH (5) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.
2. L1x1x7/64 HORIZONTAL BRIDGING EQUALLY SPACED AS SHOWN WELD TO TOP AND BOTTOM CHORDS OF JOISTS.
3. 3" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWF OVER 2" TYPE "VL", 20 GA GALVANIZED COMPOSITE DECK (5" TOTAL THICKNESS) 2-SPAN MIN. ATTACH DECK W/ (4) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET TO EACH SUPPORT AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC. FINISH FLOOR EL = 122'-6". MSLE - SEE CIVIL. SAWCUT 1/8" WIDE x 3/4" DEEP JOINTS @ 12'-0" OC MAX EACH WAY.
4. ROOF HATCH, FRAME AROUND ROOF PENETRATION PER B3/S-505.
5. MECHANICAL HOUSEKEEPING PAD - 6" THICK CONCRETE REINFORCED WITH #3 @ 16" OC IN CENTER OF SLAB. SEE MECHANICAL FOR SIZE AND LOCATION(S). SEE A1/S-505 FOR ATTACHMENT TO FLOOR SLAB.
6. 6" THICK CONCRETE STOOP REINFORCED WITH #3 @ 16" OC IN CENTER OF SLAB. SEE ARCHITECTURAL FOR DIMENSIONS AND LOCATION. SEE A1/S-505 FOR ATTACHMENT TO FLOOR SLAB.
7. 5/8" APA RATED SHEATHING ATTACH TO STUDS W/ #8 TEK SCREWS AT 6" OC AT PANEL EDGES AND 12" OC IN FIELD.



KEY PLAN N.T.S.

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ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

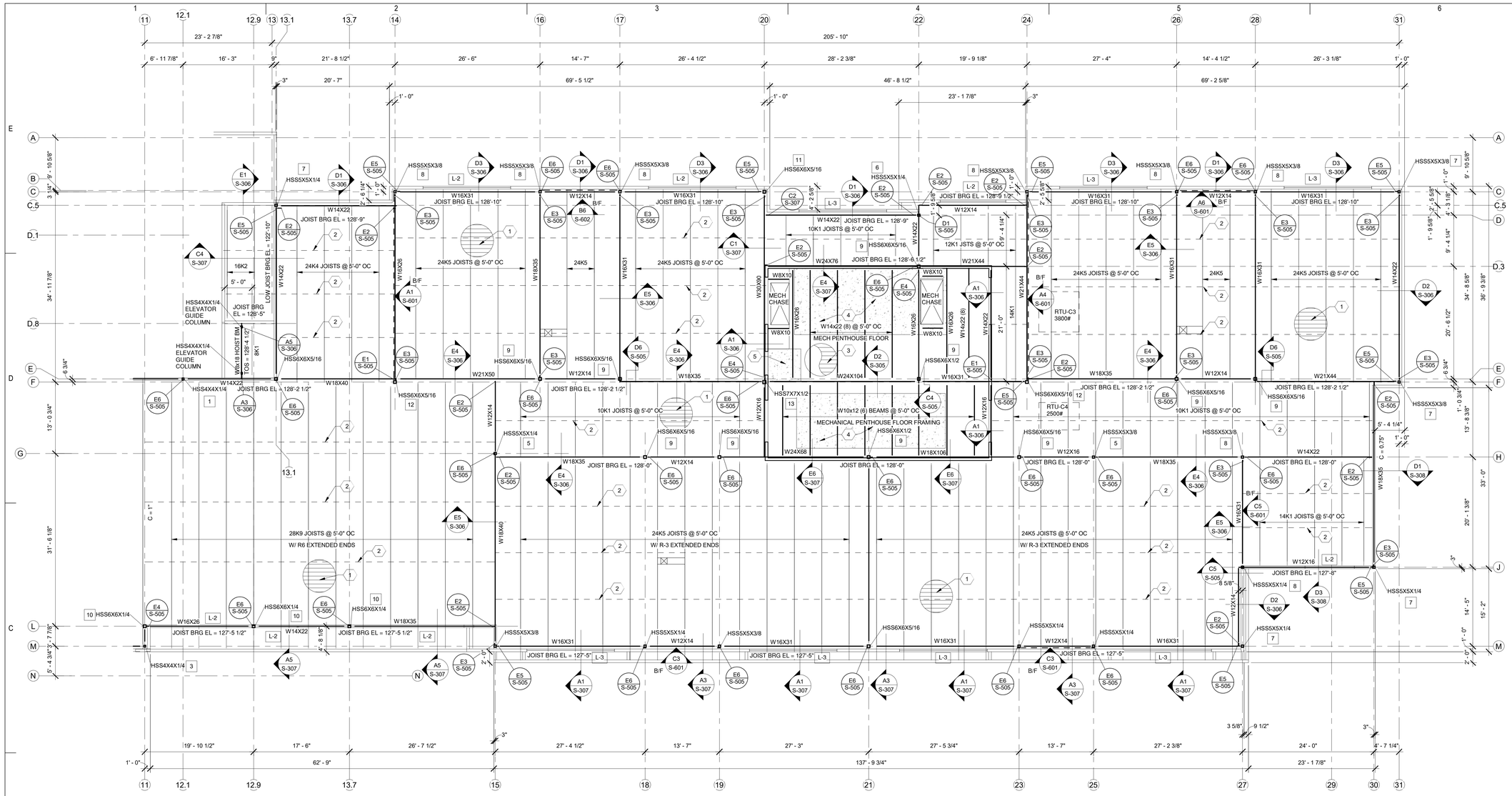
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
ENLARGED ROOF FRAMING PLAN 'B'

S-103B

7/23/2024 10:15:52 AM

Farmington Preschool Academy



B1 ENLARGED ROOF FRAMING PLAN - C
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE JOIST BRIDGING PER LATEST SJI REQUIREMENTS.

B. DESIGN JOISTS FOR 10 PSF NET UPLIFT TYPICAL UNLESS NOTED OTHERWISE.

C. FRAME AROUND ROOF DECK OPENINGS PER DETAIL B3/S-505 UNO. COORDINATE ROOF PENETRATIONS WITH MECHANICAL.

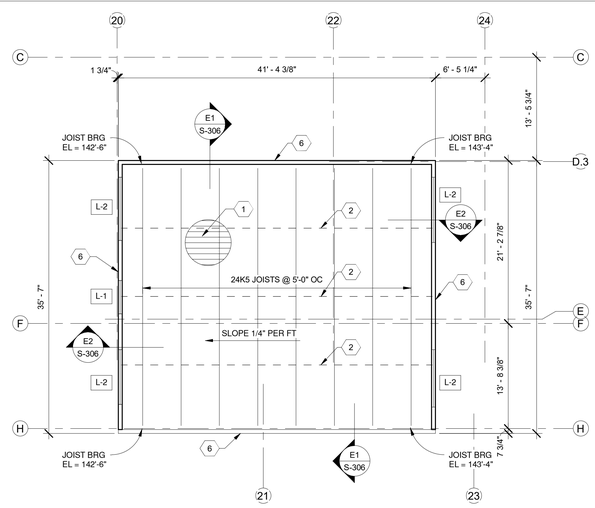
D. L-# INDICATES LIGHTGAGE STEEL LINTEL, SEE C1/S-505 FOR LIGHTGAGE STEEL LINTEL SCHEDULE AND DETAILS AT ALL EXTERIOR OPENINGS AND INTERIOR BEARING WALLS.

E. DIMENSIONS ARE TO EXTERIOR FACE OF STUD WALL.

G. # INDICATES BASE PLATE TYPE PER E1/S-501.

H. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY.

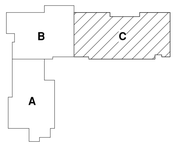
I. (xx) INDICATES NUMBER OF 3/4" DIA x 4" LONG H.A.S. EQUALLY SPACED ON BEAM UNLESS NOTED OTHERWISE.



A4 MECHANICAL PENTHOUSE ROOF FRAMING PLAN
1/8" = 1'-0"

KEYED NOTES

1. 1 1/2" TYPE "B", 20 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH (5) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.
2. L1x1x7/64 HORIZONTAL BRIDGING EQUALLY SPACED AS SHOWN WELD TO TOP AND BOTTOM CHORDS OF JOISTS.
3. 3" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWF OVER 2" TYPE "VLI", 20 GA GALVANIZED COMPOSITE DECK (5" TOTAL THICKNESS) 2-SPAN MIN. ATTACH DECK W/ (4) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET TO EACH SUPPORT AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC. FINISH FLOOR EL = 128'-8". MSLE - SEE CIVIL. SAWCUT 1/8" WIDE x 3/4" DEEP JOINTS @ 12'-0" OC MAX EACH WAY.
4. MECHANICAL HOUSEKEEPING PAD - 6" THICK CONCRETE REINFORCED WITH #3 @ 16" OC IN CENTER OF SLAB. SEE MECHANICAL FOR SIZE AND LOCATION(S). SEE A1/S-505 FOR ATTACHMENT TO FLOOR SLAB.
5. 6" THICK CONCRETE STOOP REINFORCED WITH #3 @ 16" OC IN CENTER OF SLAB. SEE ARCHITECTURAL FOR DIMENSIONS AND LOCATION. SEE A1/S-505 FOR ATTACHMENT TO FLOOR SLAB.
6. 5/8" APA RATED SHEATHING ATTACH TO STUDS W/ #8 TEK SCREWS AT 6" OC AT PANEL EDGES AND 12" OC IN FIELD.



KEY PLAN
N.T.S.

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ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

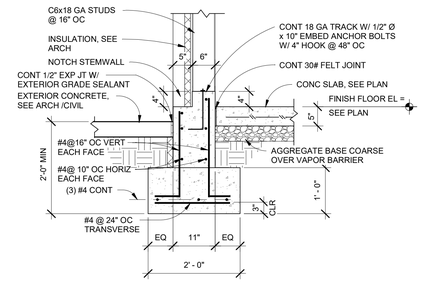
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
ENLARGED ROOF FRAMING PLAN 'C'

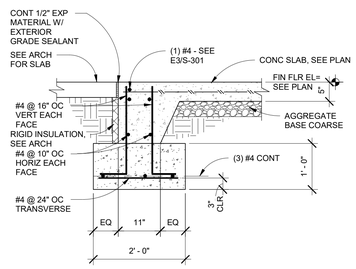
S-103C

7/23/2024 10:15:55 AM

Farmington Preschool Academy



E1 SECTION
3/4" = 1'-0"



E2 SECTION AT DOOR OPENINGS
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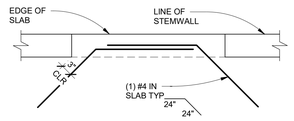

E3 TYP SLAB REINF AT DOOR OPENINGS
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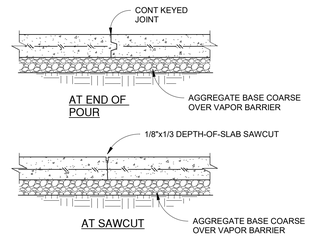
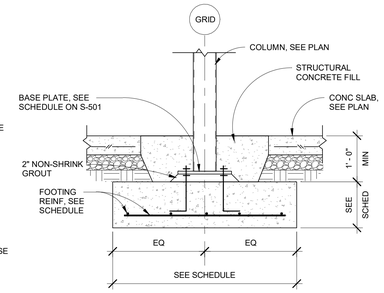


E4 TYP SLAB CONTROL JOINTS
3/4" = 1'-0"



E5 TYPICAL INTERIOR COLUMN
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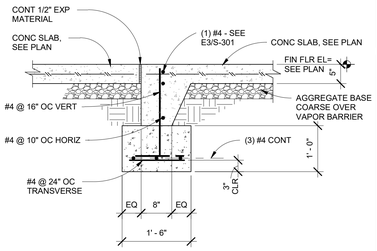

E6 SECTION
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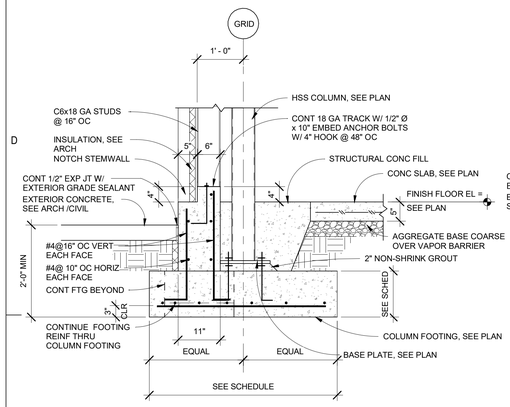

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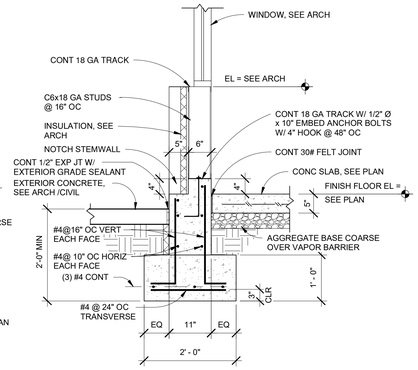

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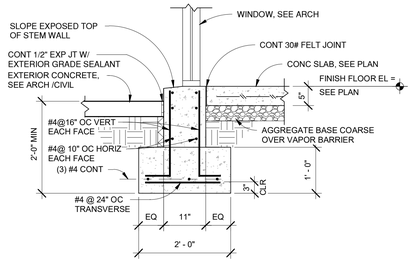

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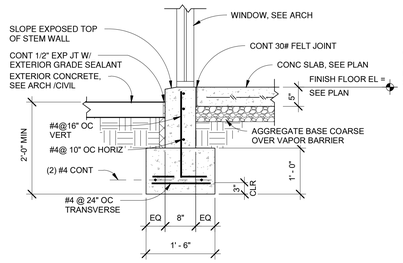

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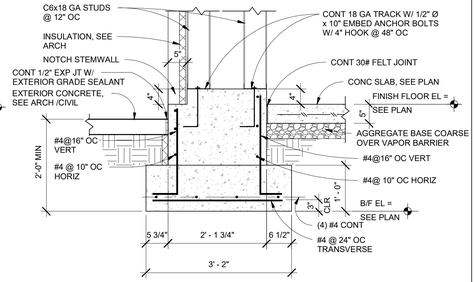

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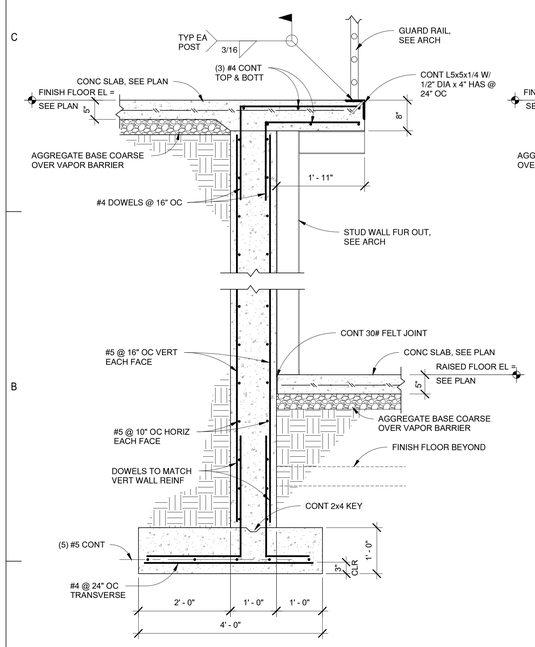

B1 SECTION
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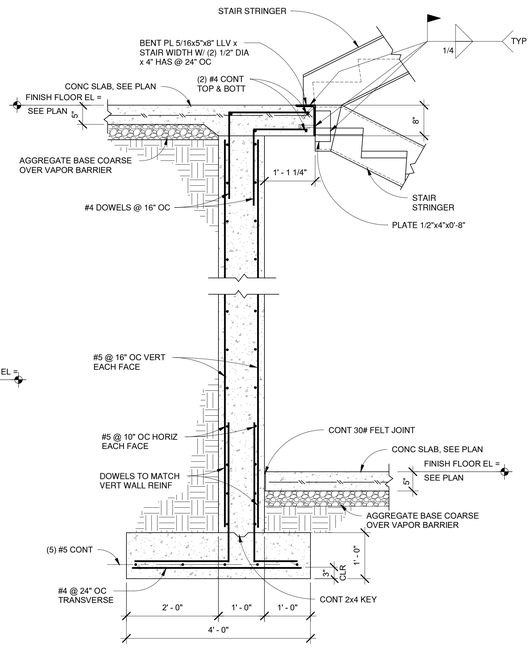
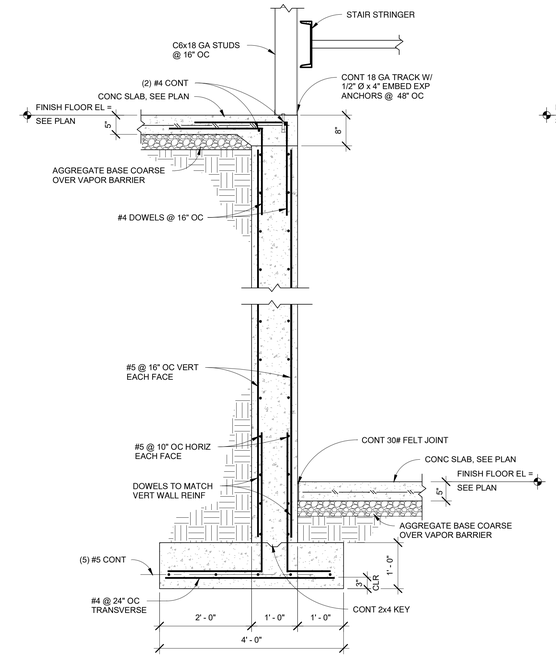


B2 SECTION
3/4" = 1'-0"



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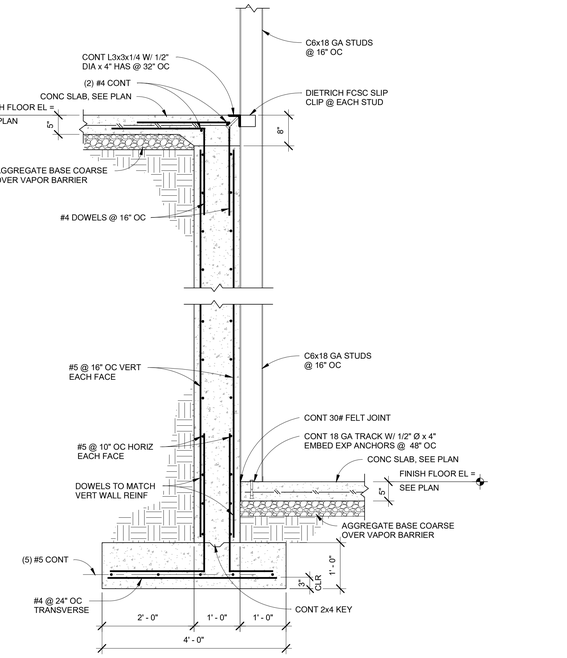

B6 SECTION
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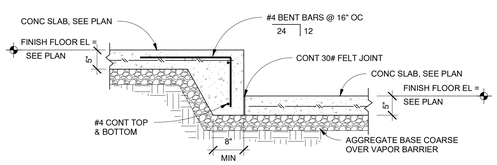

A1 SECTION AT STEP IN FLOOR SLAB
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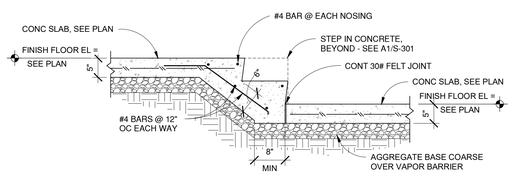
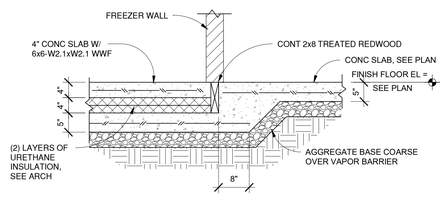


A2 SECTION AT STEPS IN FLOOR SLAB
3/4" = 1'-0"



A4 SECTION AT WALK-IN COOLER FLOOR
3/4" = 1'-0"

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MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

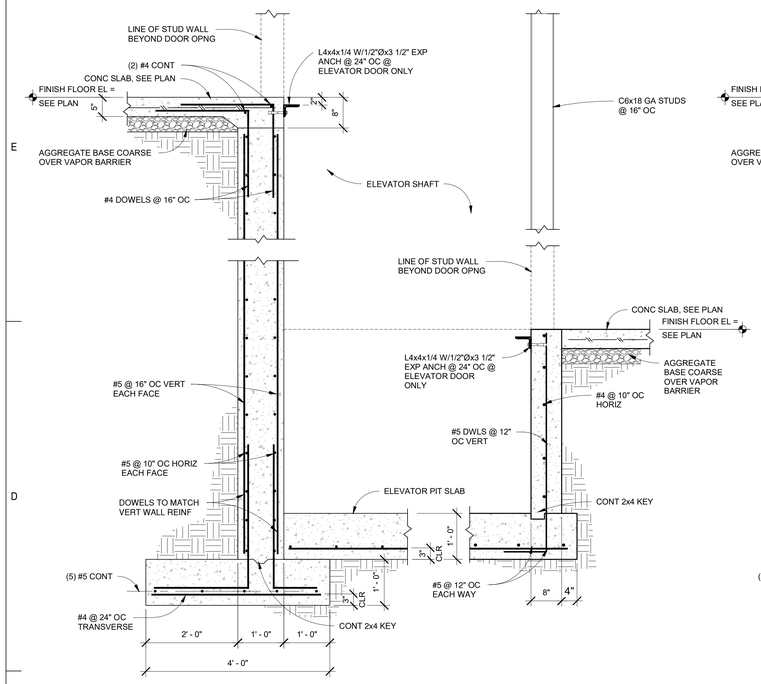
SHEET TITLE

FOUNDATION SECTIONS

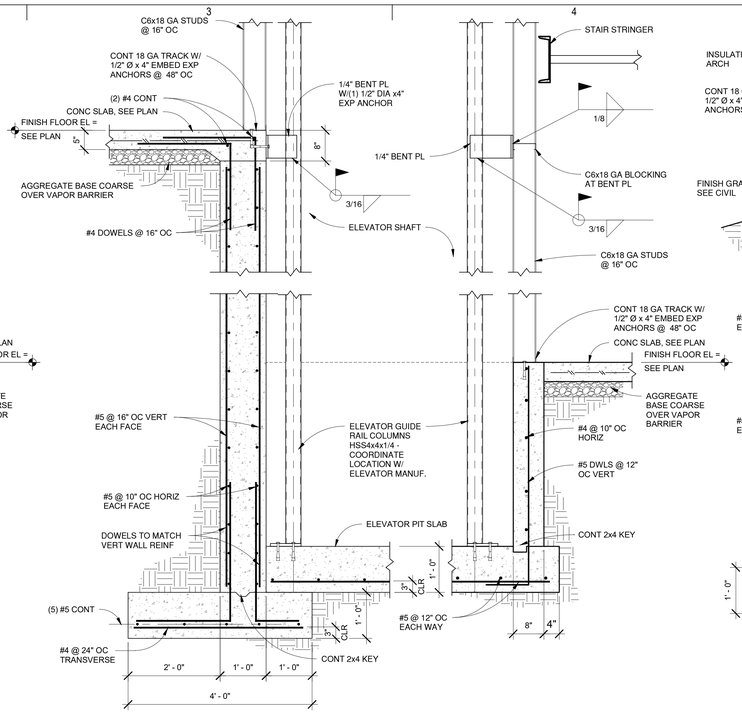
S-301

7/23/2024 10:15:58 AM

Farmington Preschool Academy



D1 SECTION AT ELEVATOR
3/4" = 1'-0"



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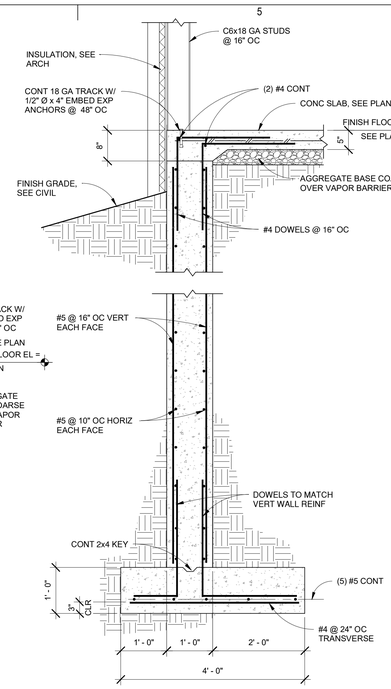
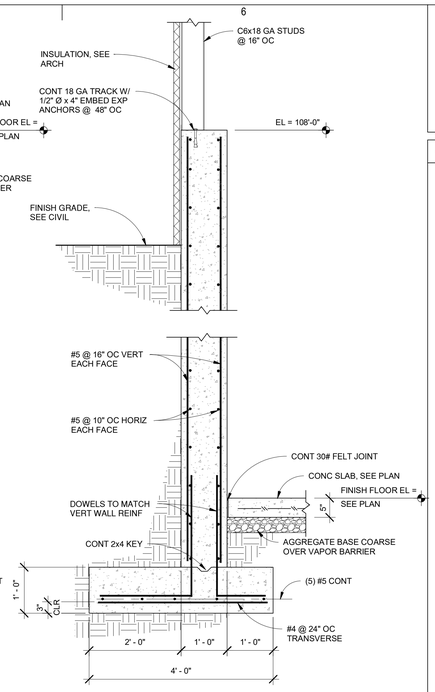
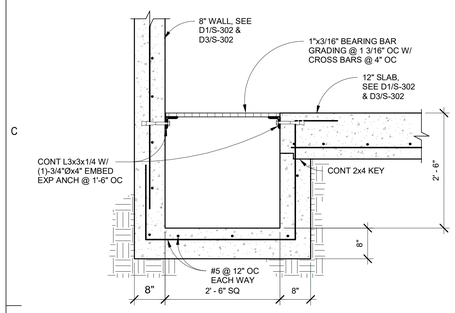


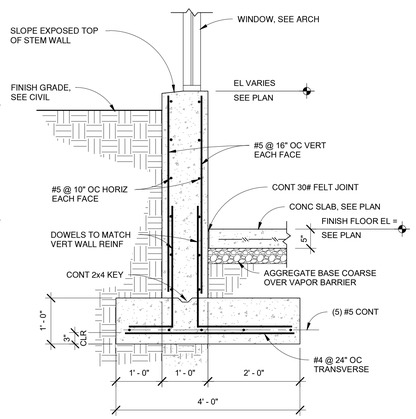
D5 SECTION
3/4" = 1'-0"



D6 SECTION
3/4" = 1'-0"



C1 SECTION @ ELEVATOR SUMP PIT
3/4" = 1'-0"



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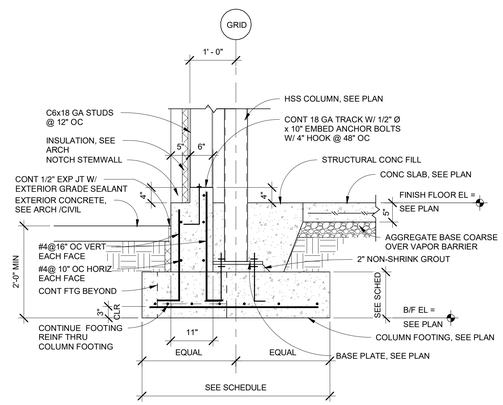

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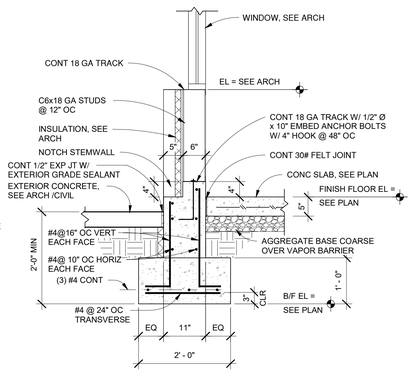

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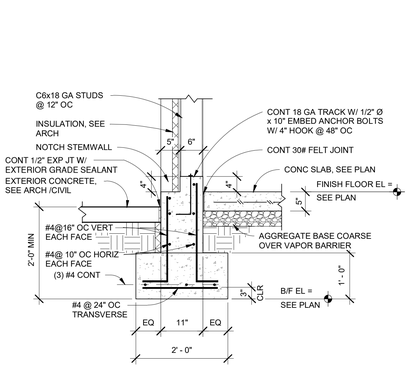
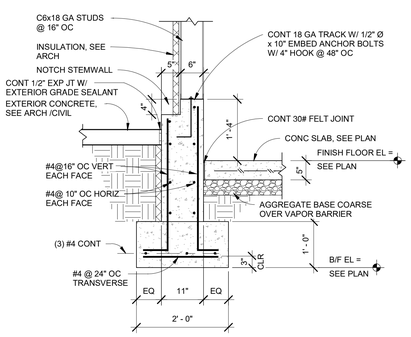
3/4" = 1'-0"



C6 SECTION
3/4" = 1'-0"



A1 SECTION
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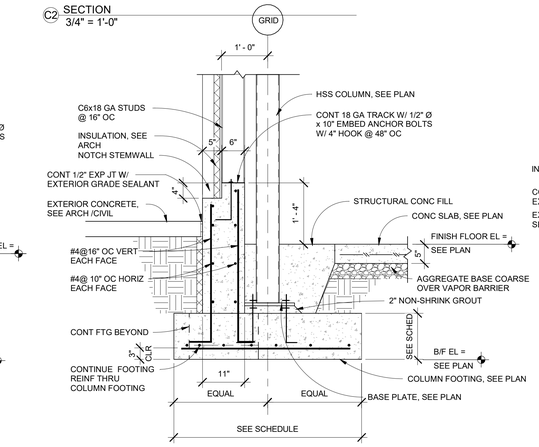

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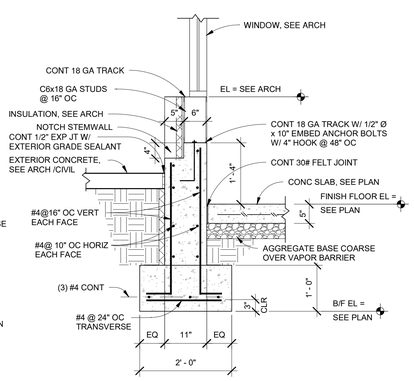

A4 SECTION
3/4" = 1'-0"

7/23/2024 10:16:00 AM

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3/21/24
ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

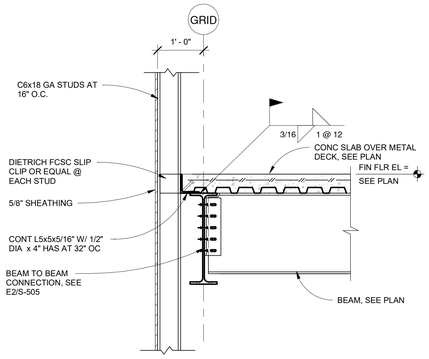
MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
FOUNDATION SECTIONS

S-302

Farmington Preschool Academy



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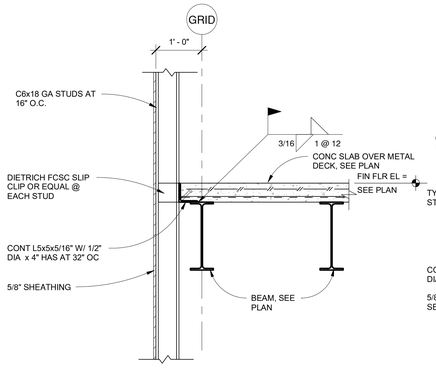

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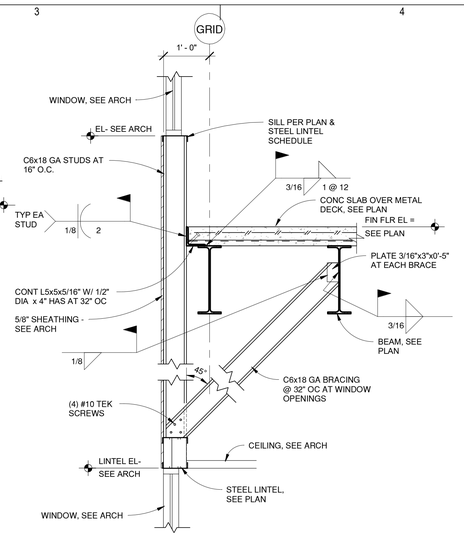

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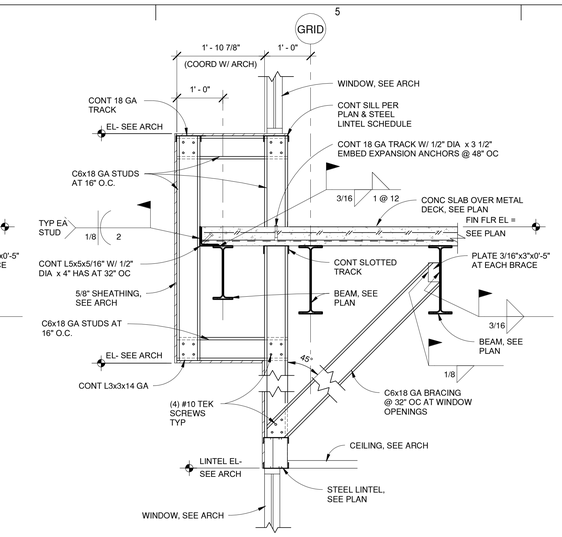

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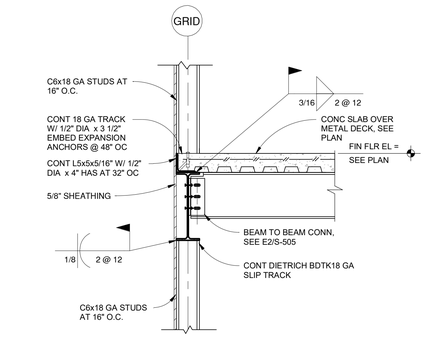

D1 SECTION
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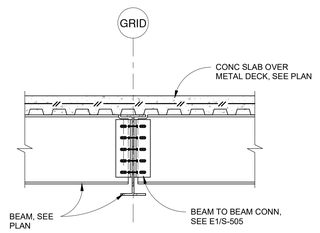

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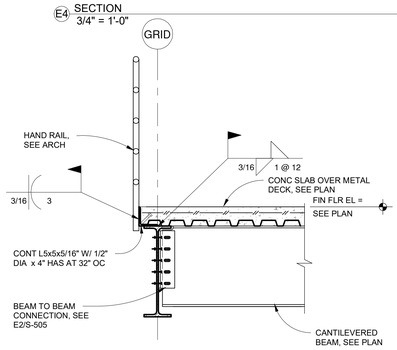

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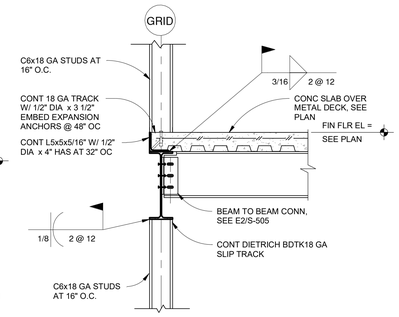

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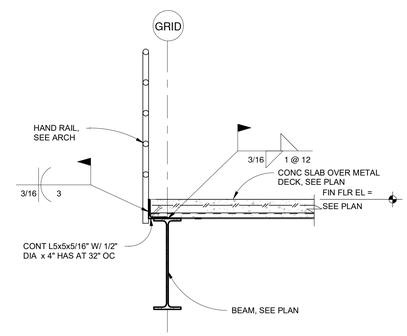

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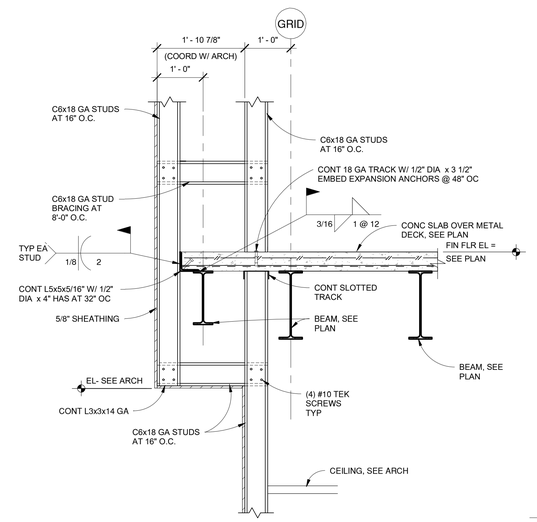

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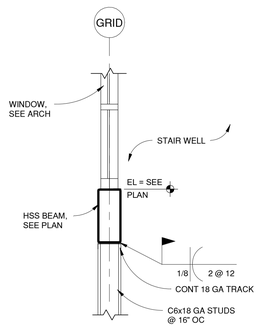

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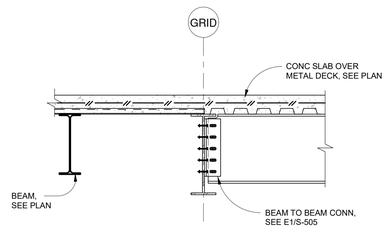

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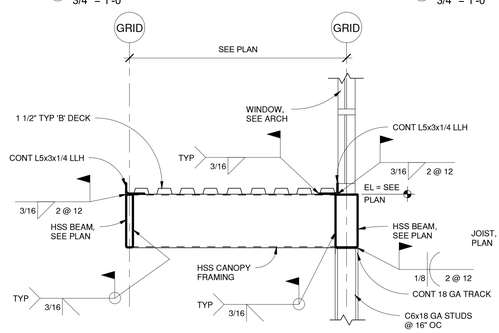

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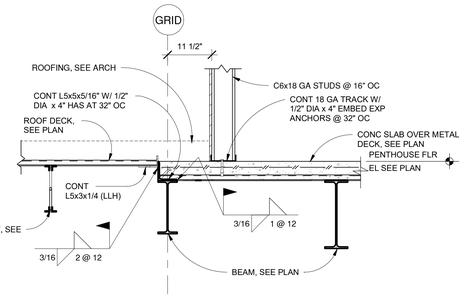

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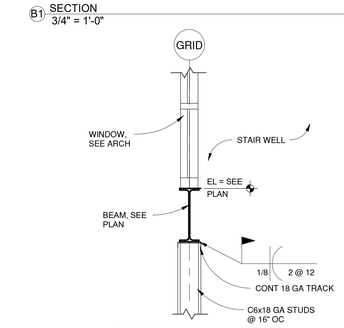

A1 SECTION
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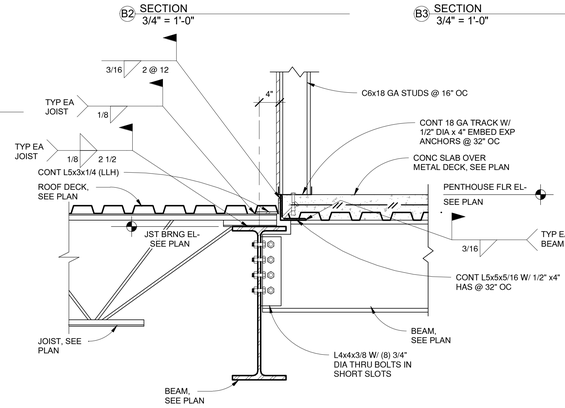

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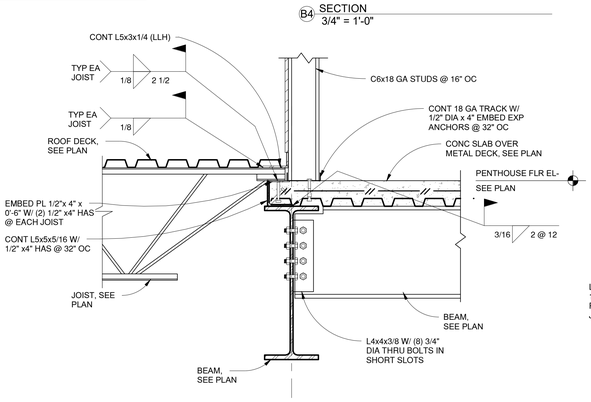

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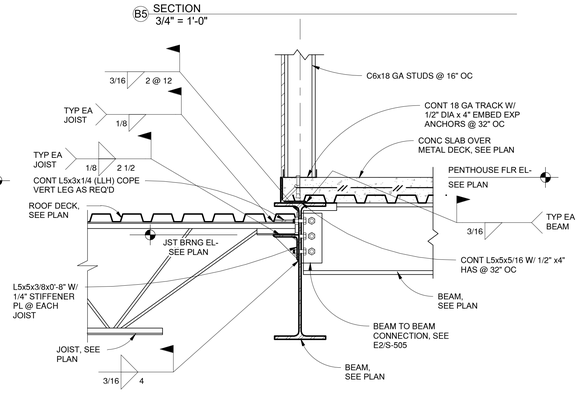

A6 SECTION
1" = 1'-0"

7/23/2024 10:16:00 AM

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

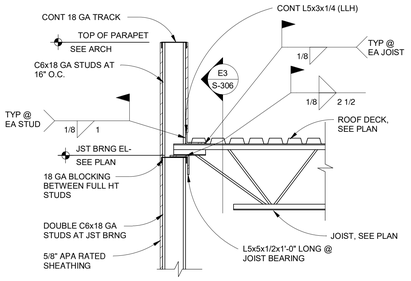
MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
FRAMING SECTIONS

S-305

Farmington Preschool Academy



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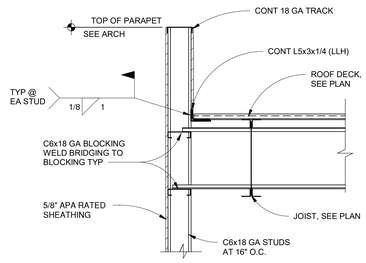

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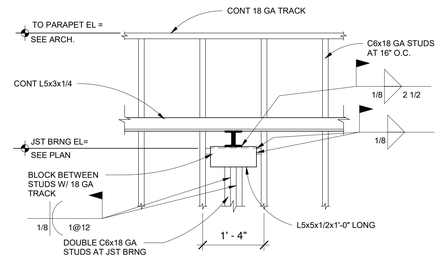

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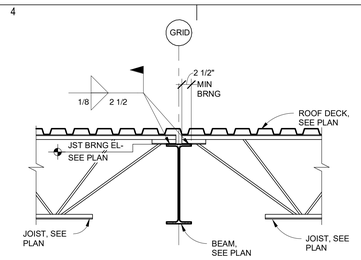

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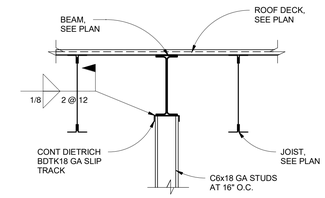

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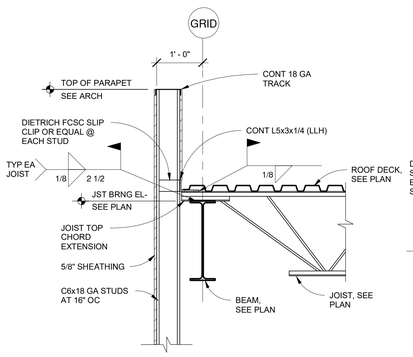
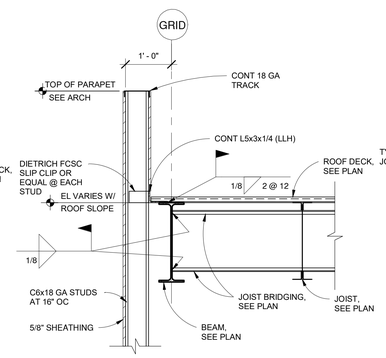


D1 SECTION
3/4" = 1'-0"



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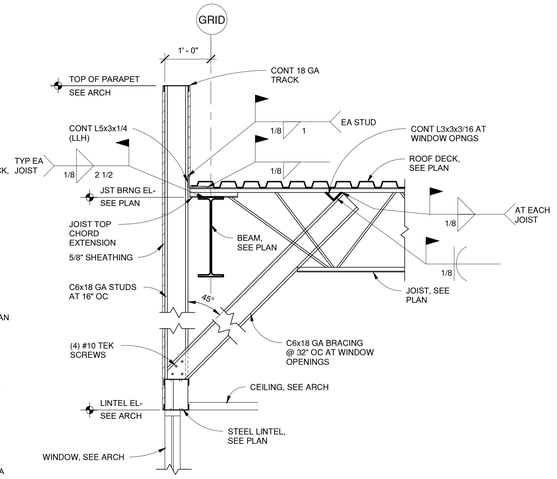

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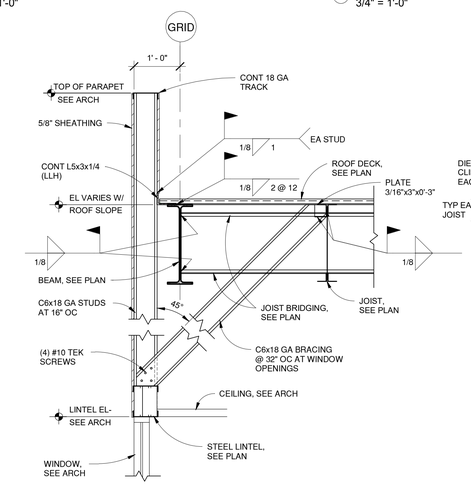

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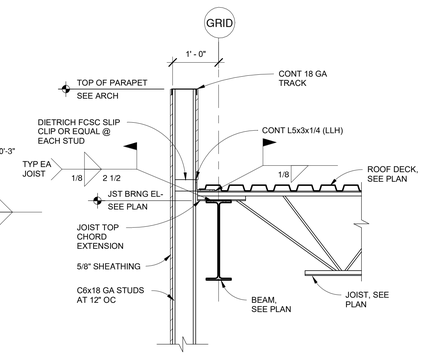

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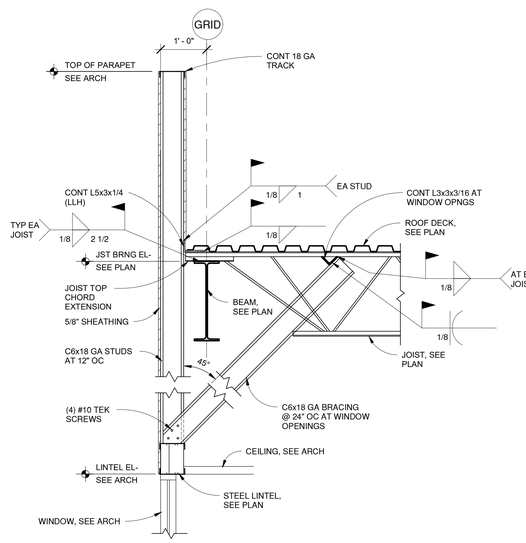

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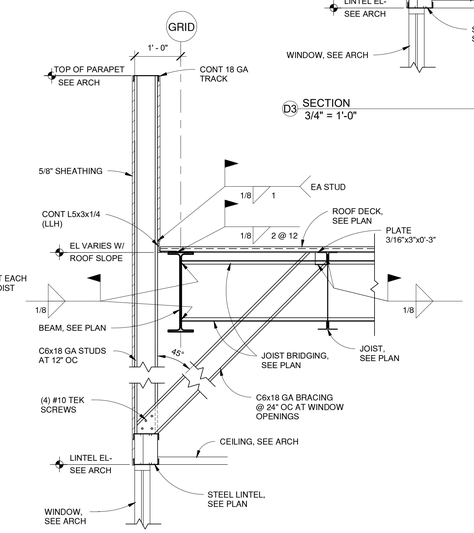

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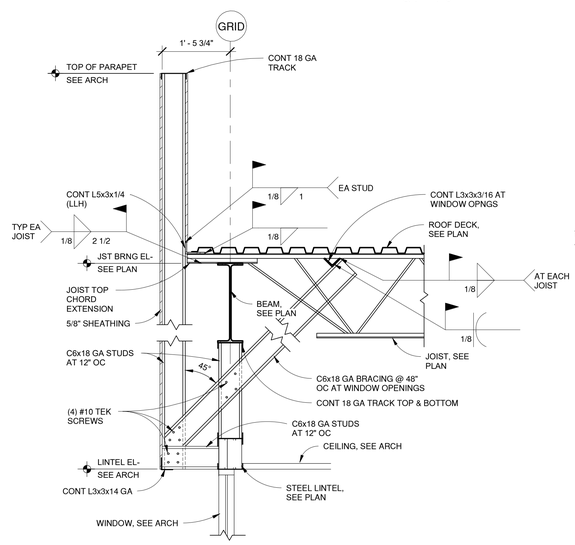

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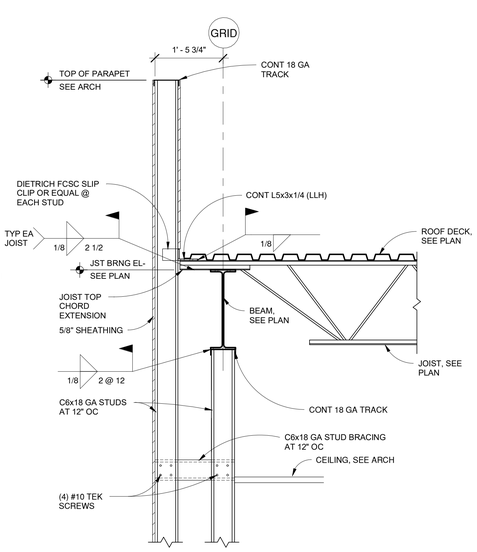

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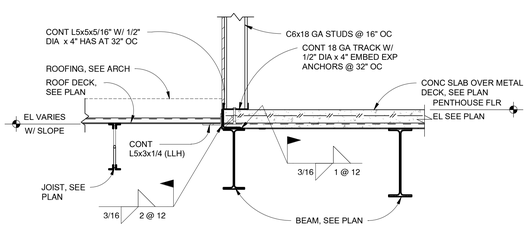

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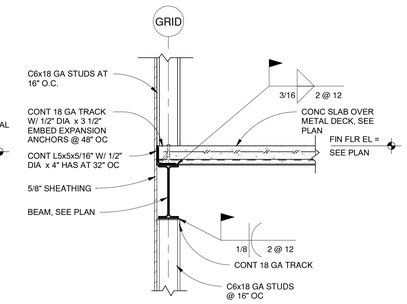

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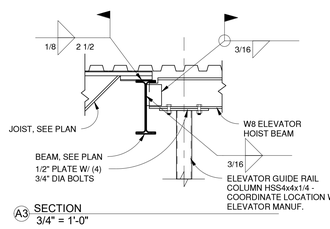

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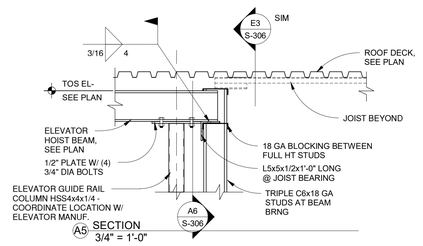

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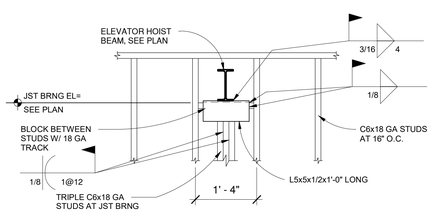

A6 SECTION
3/4" = 1'-0"

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11630
3/21/24
ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

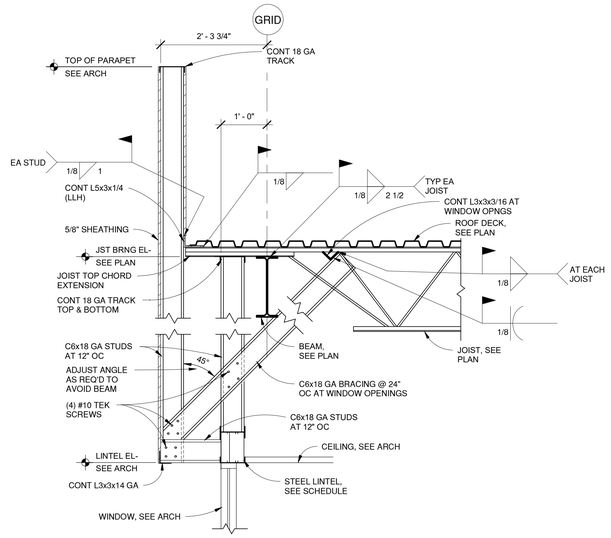
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE
FRAMING SECTIONS

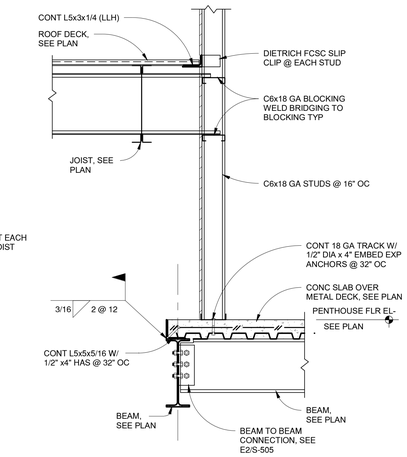
S-306

7/23/2024 10:16:03 AM

Farmington Preschool Academy



D1 SECTION
3/4" = 1'-0"



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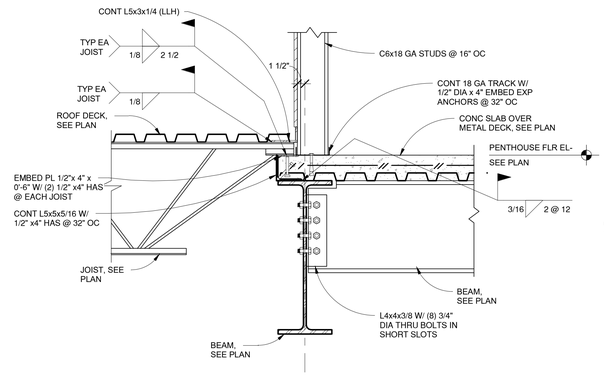

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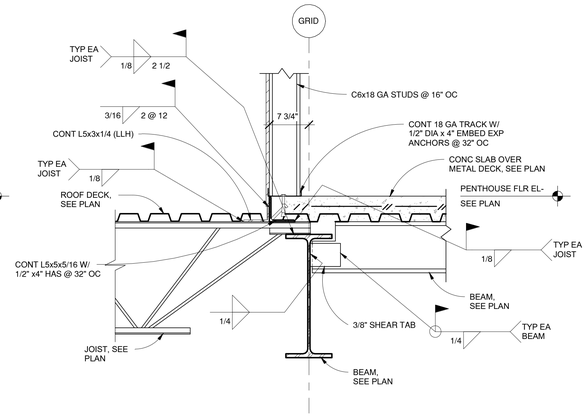

E6 SECTION
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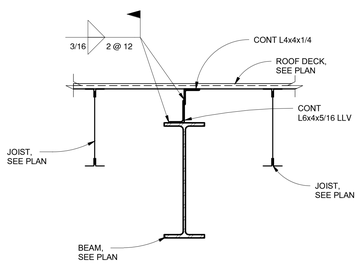
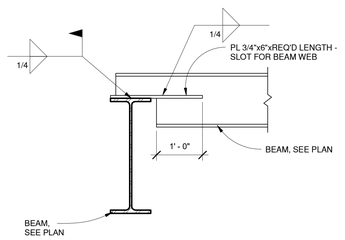


C1 SECTION
3/4" = 1'-0"



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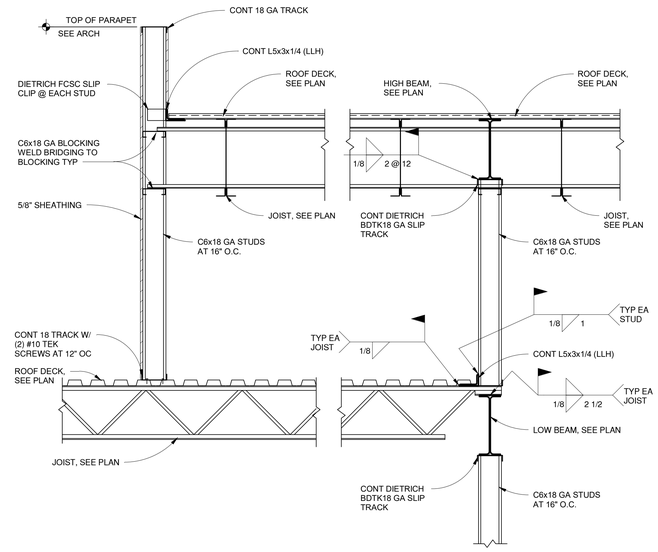

C4 C4/S-307
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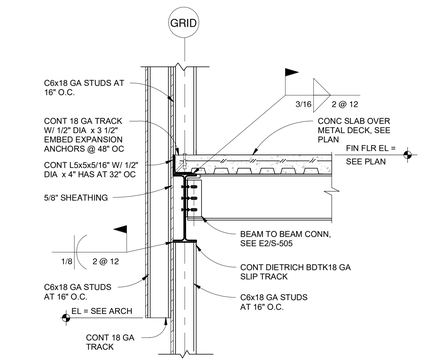
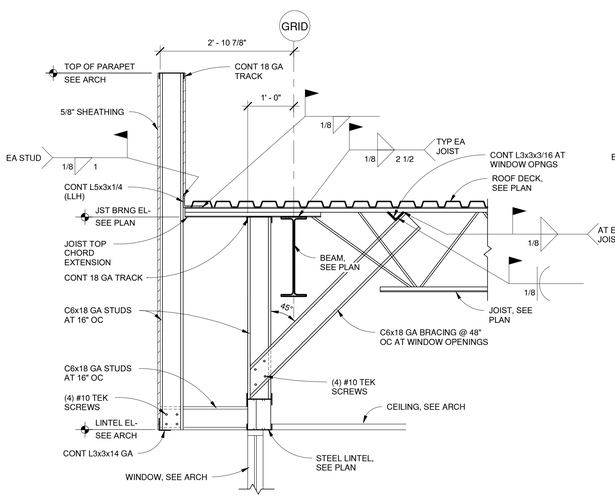
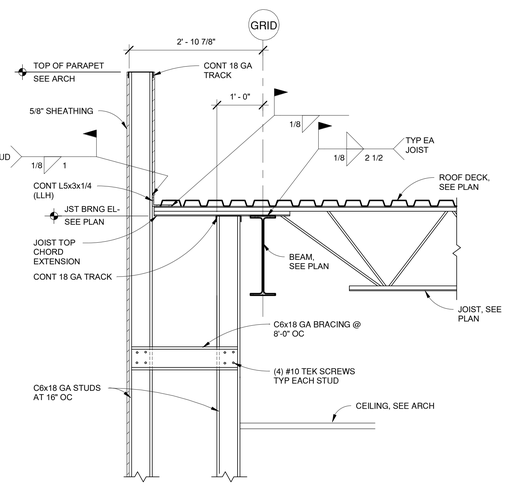


C6 SECTION
3/4" = 1'-0"



A1 SECTION
3/4" = 1'-0"



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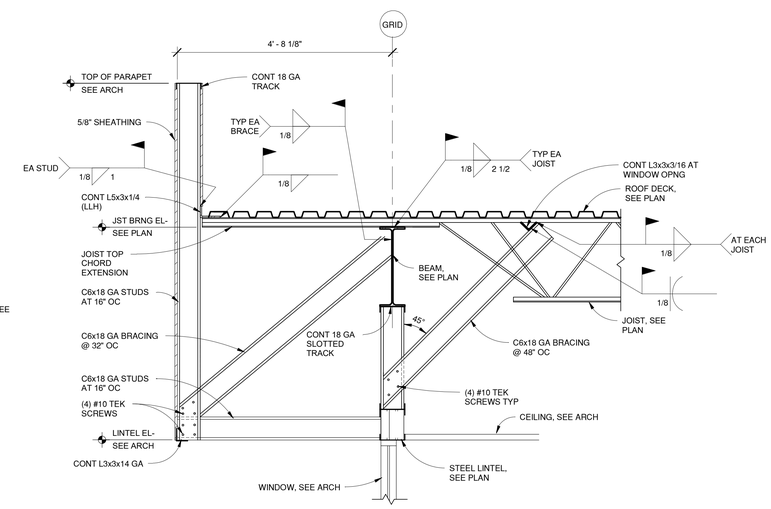

A5 SECTION
3/4" = 1'-0"

7/23/2024 10:16:06 AM

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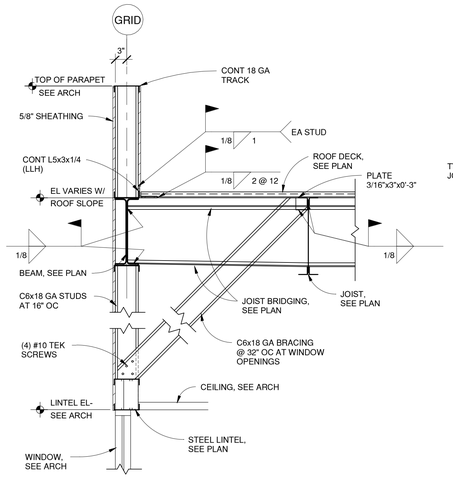
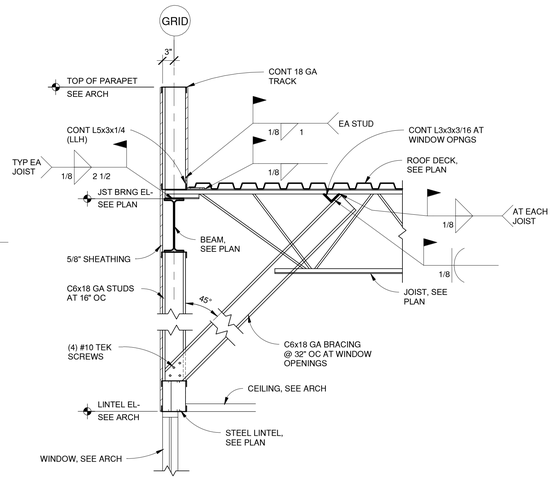
SHEET TITLE
FRAMING SECTIONS

S-307

Farmington Preschool Academy



D1 SECTION
3/4" = 1'-0"



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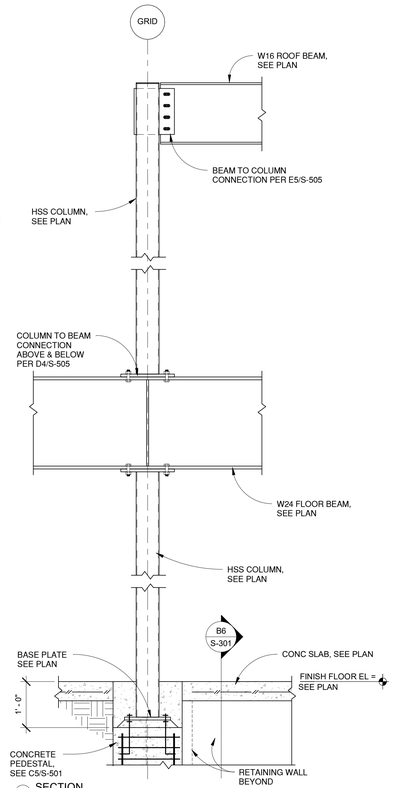

D4 SECTION
3/4" = 1'-0"

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SHEET TITLE
FRAMING SECTIONS

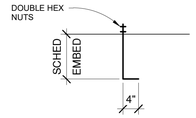
S-308

7/23/2024 10:16:07 AM

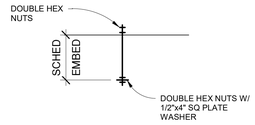
Farmington Preschool Academy

BASE PLATE SCHEDULE

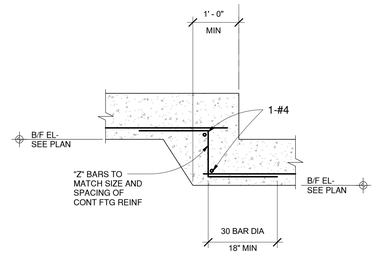
MARK	TYPE	SIZE "T"x"A"x"B"	A307 ANCHOR BOLTS	ANCHOR BOLT TYPE
1	A	3/4"x12"x1'-0"	(4) 3/4"Øx9" EMBED	1
2	B	3/4"x10"x1'-0"	(4) 3/4"Øx9" EMBED	1
3	C	3/4"x10"x1'-0"	(4) 3/4"Øx9" EMBED	1
4	D	1"x12"x1'-4"	(7) 3/4"Øx9" EMBED - ALL THREADS	2
5	A	1"x13"x1'-1"	(4) 3/4"Øx9" EMBED	1
6	B	1"x13"x0'-11"	(4) 3/4"Øx9" EMBED	1
7	C	1"x11"x1'-1"	(4) 3/4"Øx9" EMBED	1
8	D	1 1/4"x13"x1'-6"	(7) 1"Øx9" EMBED - ALL THREADS	2
9	A	1 3/8"x14"x1'-2"	(4) 1"Øx9" EMBED	1
10	B	1 3/8"x14"x1'-0"	(4) 1"Øx9" EMBED	1
11	C	1 3/8"x12"x1'-2"	(4) 1"Øx9" EMBED	1
12	D	1 1/2"x14"x1'-8"	(7) 1"Øx9" EMBED - ALL THREADS	2
13	A	1 3/8"x15"x1'-3"	(4) 1"Øx9" EMBED	1



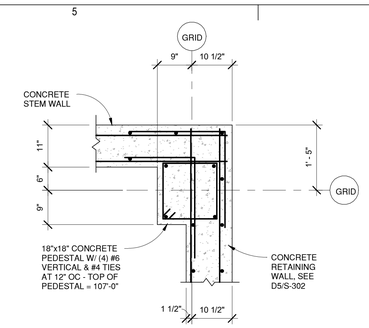
TYPE 1 ANCHOR BOLT



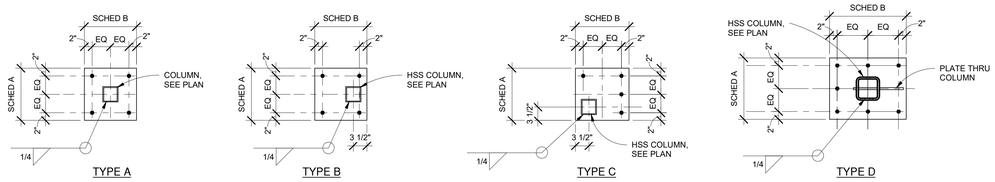
TYPE 2 ANCHOR BOLT



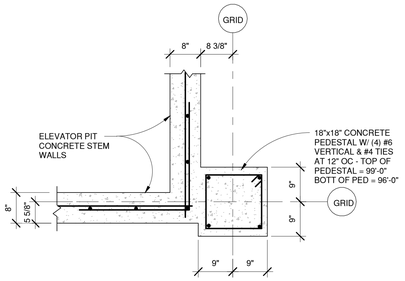
E4 TYPICAL STEP FOOTING
3/4" = 1'-0"



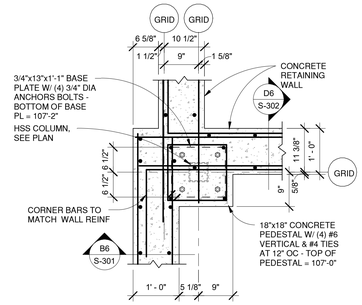
E5 COLUMN PEDESTAL DETAIL AT CORNER
3/4" = 1'-0"



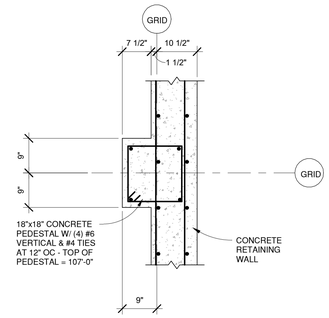
E1 BASE PLATE SCHEDULE
3/4" = 1'-0"



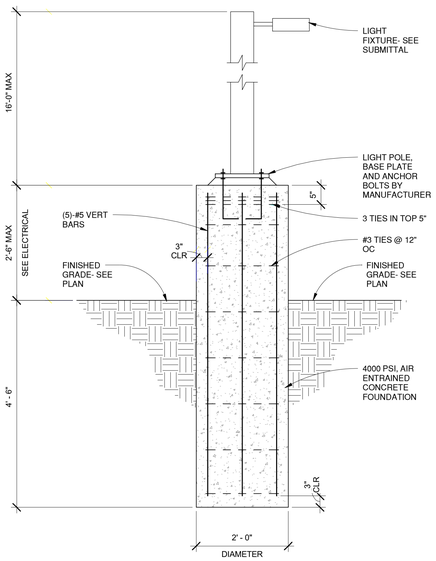
D4 COLUMN PEDESTAL AT ELEVATOR PIT
3/4" = 1'-0"



D5 COLUMN BEARING ON RETAINING WALL
3/4" = 1'-0"

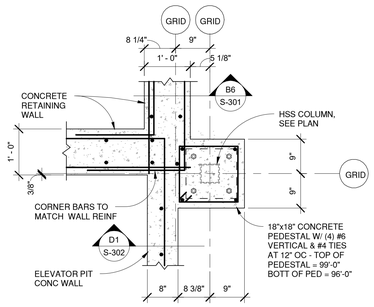


D6 COLUMN PEDESTAL DETAIL
3/4" = 1'-0"



NOTE: SEE ARCHITECTURAL AND ELECTRICAL FOR LIGHT POLE BASE LOCATIONS.

C1 LIGHT POLE BASE - 16' FIXTURE
3/4" = 1'-0"



C5 COLUMN BEARING ON PEDESTAL
3/4" = 1'-0"

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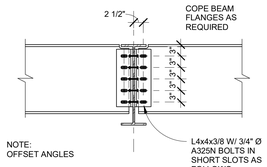
CHECKED BY:	MJW

SHEET TITLE
FOUNDATION DETAILS

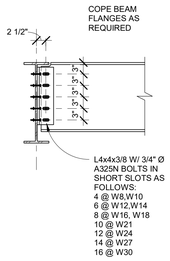
S-501

Farmington Preschool Academy

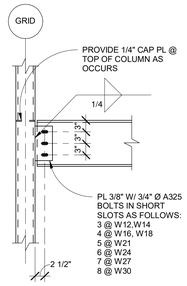
7/23/2024 10:16:08 AM



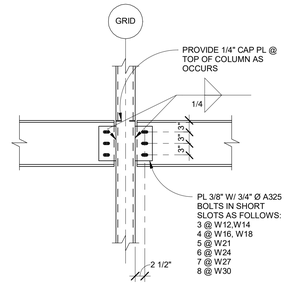
E1 BEAM TO BEAM ANGLE CONNECTION
3/4" = 1'-0"



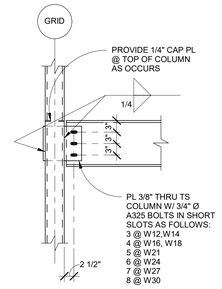
E2 BEAM TO BEAM CONN - ONE SIDED
3/4" = 1'-0"



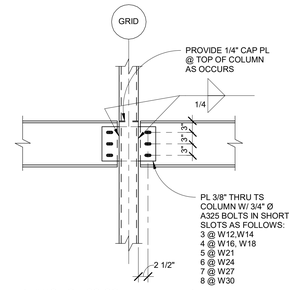
E3 BEAM TO HSS COLUMN CONN W - SHEAR TAB
3/4" = 1'-0"



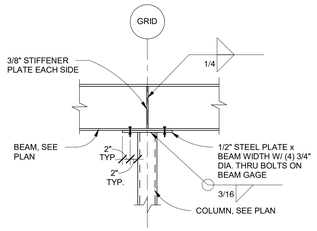
E4 BEAM TO HSS COLUMN W - SHEAR TAB - 2 SIDED
3/4" = 1'-0"



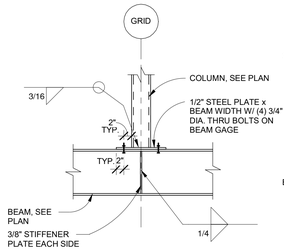
E5 BEAM TO HSS COLUMN CONN W - THRU PLATE
3/4" = 1'-0"



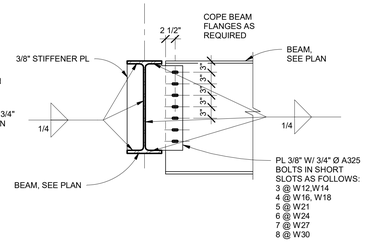
E6 BEAMS TO HSS COLUMN W - THRU PLATE
3/4" = 1'-0"



D1 BEAM OVER TOP OF COLUMN CONNECTION
3/4" = 1'-0"



D2 COLUMN ON TOP OF BEAM CONNECTION
3/4" = 1'-0"



D3 SKEWED BEAM TO BEAM CONNECTION
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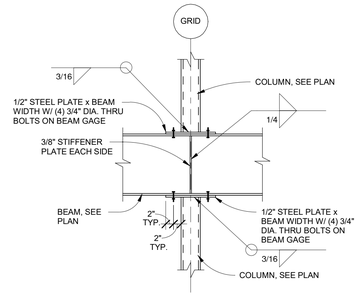
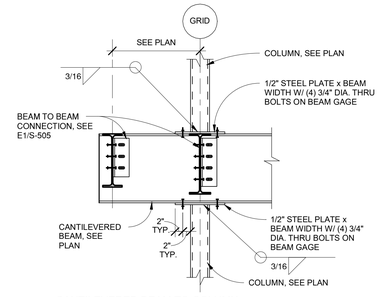
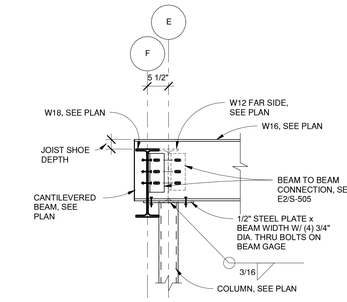


D4 BEAM OVER TOP OF COLUMN & COLUMN ABOVE CONNECTION
3/4" = 1'-0"



D5 CANTILEVERED BEAM TO COLUMN CONNECTION
3/4" = 1'-0"

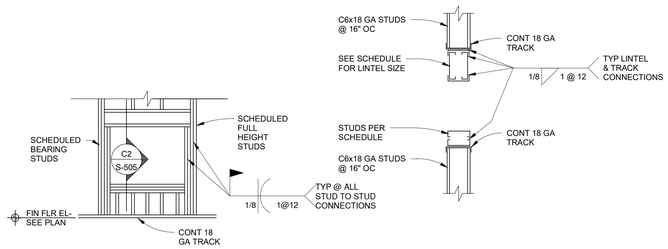


D6 CANTILEVERED BEAM TO COLUMN CONNECTION
3/4" = 1'-0"

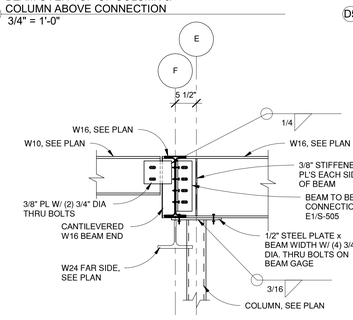
STEEL LINTEL SCHEDULE

MARK	SIZE	NO. BEARING STUDS	NO. FULL HEIGHT STUDS	WINDOW SILL STUDS
L-1	(2) C6x18 GA.	1	1	18 GA. TRACK
L-2	(3) C6x18 GA.	1	2	18 GA. TRACK (1) C6x18 GA STUD
L-3	(3) C8x16 GA.	2	3	18 GA. TRACK (1) C6x18 GA STUD
L-4	HSS8x6x1/4 (LLV)	2	2	18 GA TRACK (1) C6x18 GA STUD
L-5	HSS10x6x5/16 (LLV)	3	2	18 GA TRACK (2) C6x18 GA STUD

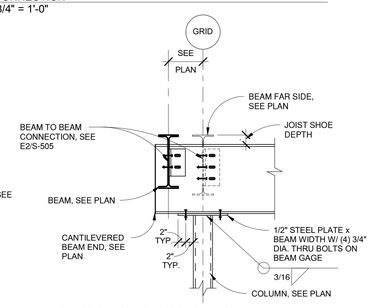
C1 STEEL LINTEL SCHEDULE
3/4" = 1'-0"



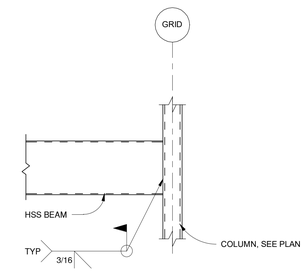
C2
3/4"=1'-0"



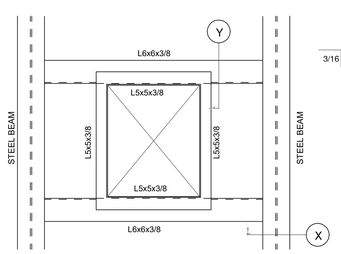
C4 CANTILEVERED BEAM TO COLUMN CONNECTION
3/4" = 1'-0"

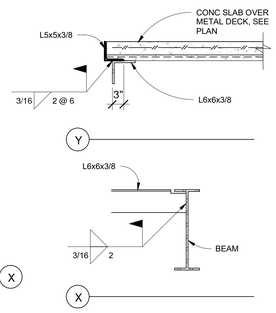


C5 CANTILEVERED BEAM TO COLUMN CONNECTION
3/4" = 1'-0"

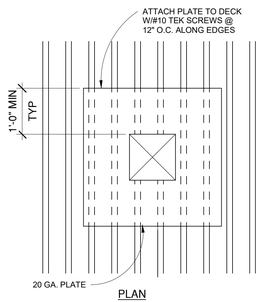


C6 CANOPY BEAM TO COLUMN CONNECTION
3/4" = 1'-0"



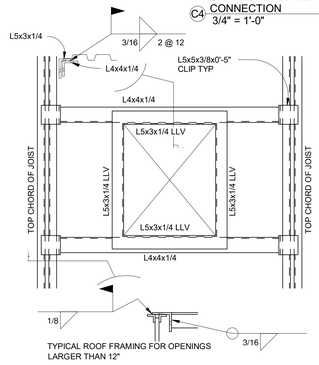


B1 FRAMING FOR OPENINGS IN FLOOR DECK
3/4" = 1'-0"



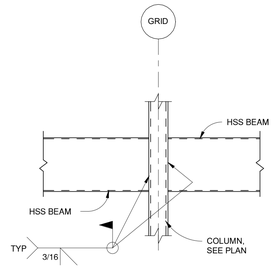
PLAN

TYPICAL ROOF FRAMING FOR OPENINGS 12" AND SMALLER

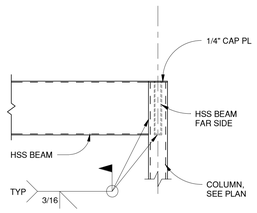


TYPICAL ROOF FRAMING FOR OPENINGS LARGER THAN 12"

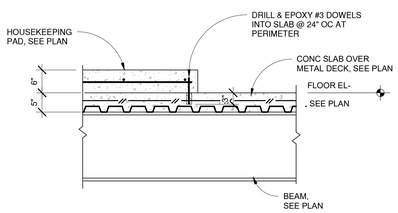
B3 FRAMING FOR OPENINGS IN ROOF DECK
3/4" = 1'-0"



B4 HSS BEAM TO COLUMN CONNECTION
3/4" = 1'-0"



B5 CANOPY BEAMS TO COLUMN CONNECTION
3/4" = 1'-0"



TYPICAL HOUSEKEEPING PAD SLAB DETAIL
3/4" = 1'-0"

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ENGINEER

FARMINGTON PRESCHOOL ACADEMY

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS

MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

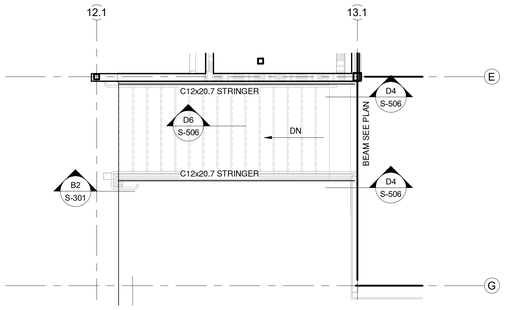
SHEET TITLE

FRAMING DETAILS

S-505

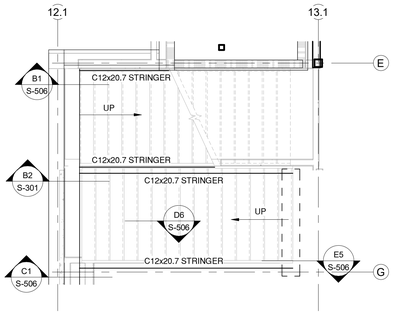
7/23/2024 10:16:10 AM

Farmington Preschool Academy



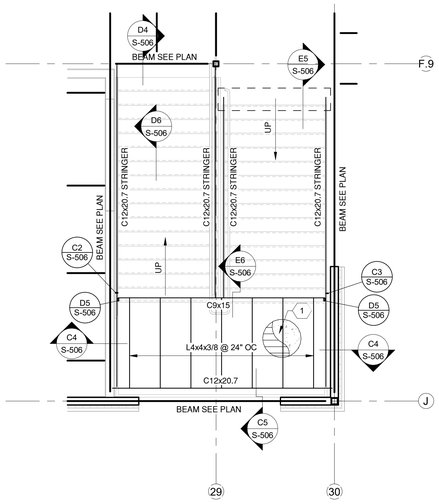
NOTE: SEE ARCHITECTURAL FOR STAIR DIMENSIONS.

E1 ENLARGED INNER STAIR FRAMING AT UPPER LEVEL
1/4" = 1'-0"



NOTE: SEE ARCHITECTURAL FOR STAIR DIMENSIONS.

D1 ENLARGED INNER STAIR FRAMING PLAN AT LOWER LEVEL
1/4" = 1'-0"



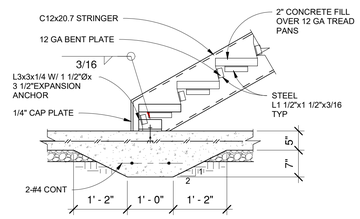
NOTE: SEE ARCHITECTURAL FOR STAIR DIMENSIONS AND LANDING ELEVATION.

D3 ENLARGED ENTRY STAIR FRAMING PLAN
1/4" = 1'-0"

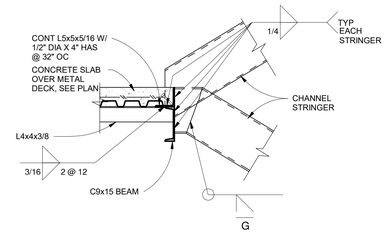
KEYED NOTES

1 3 1/2" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWF OVER 1 1/2" TYPE "VL", 20 GA GALVANIZED COMPOSITE DECK (5" TOTAL THICKNESS) 2-SPAN MIN. ATTACH DECK W/ (4) 5/8" DIA PUDDLE WELDS PER 36" WIDE SHEET TO EACH SUPPORT AND TO SUPPORTS PARALLEL TO RIBS WITH 5/8" DIA PUDDLE WELDS @ 12" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC. FINISH FLOOR EL = SEE ARCH.

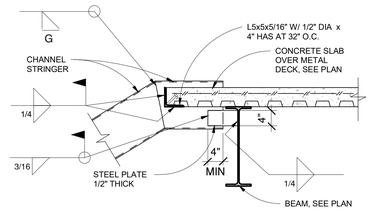
NOTE: SEE ARCH FOR RISE AND RUN.



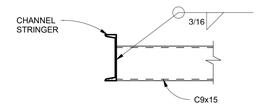
E5 TYPICAL STEEL STAIR BASE SECTION
3/4" = 1'-0"



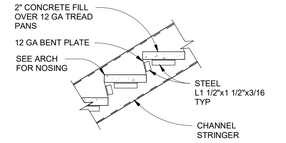
E6 SECTION
3/4" = 1'-0"



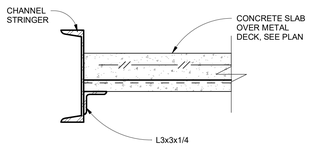
D4 SECTION
3/4" = 1'-0"



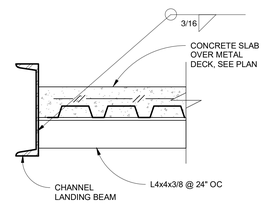
D5 SECTION
3/4" = 1'-0"



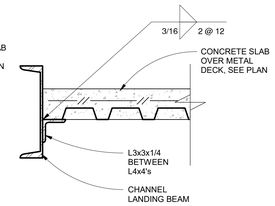
D6 D6/S-506
3/4" = 1'-0"



C4 SECTION
1 1/2" = 1'-0"

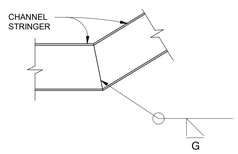


AT LANDING ANGLE SUPPORTS

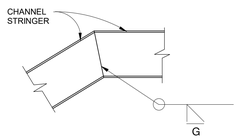


BETWEEN LANDING ANGLE SUPPORTS

C5 SECTION
1 1/2" = 1'-0"



C2 SECTION
3/4" = 1'-0"



C3 SECTION
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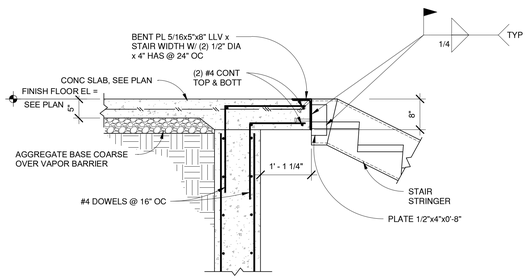
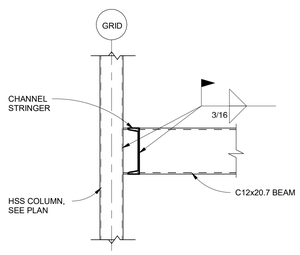


C1 SECTION
3/4" = 1'-0"



B2 SECTION
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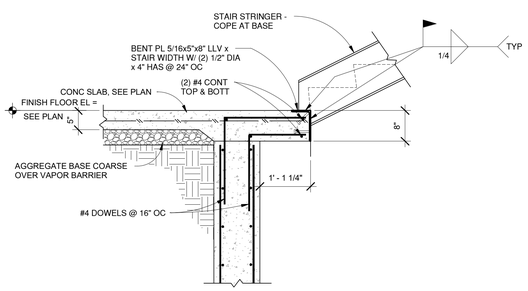

B1 SECTION
3/4" = 1'-0"

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3/21/24

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

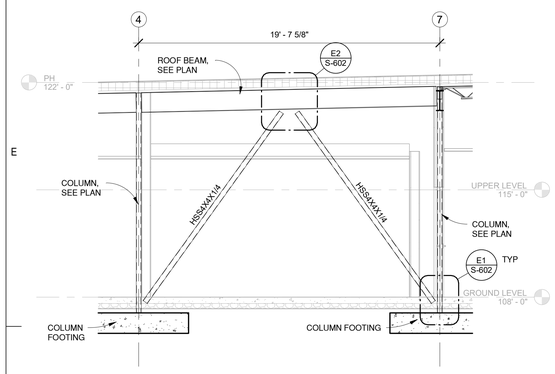
SHEET TITLE

ENLARGED STAIR FRAMING PLANS & DETAILS

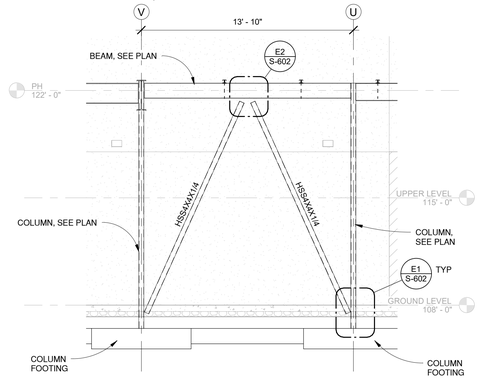
S-506

Farmington Preschool Academy

7/23/2024 10:16:11 AM



BRACED FRAME ELEVATION ALONG GRID W
E1 1/4" = 1'-0"



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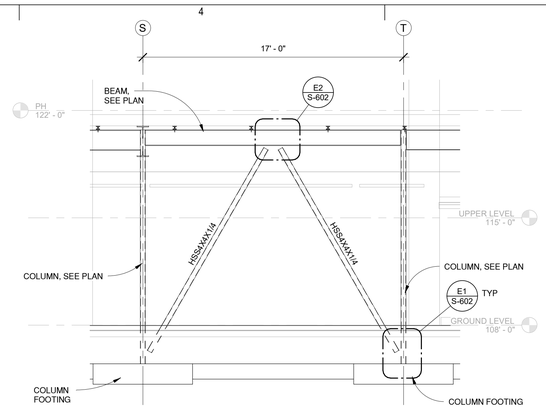
E3 1/4" = 1'-0"



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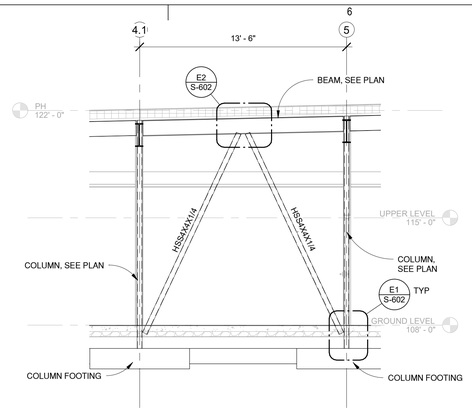
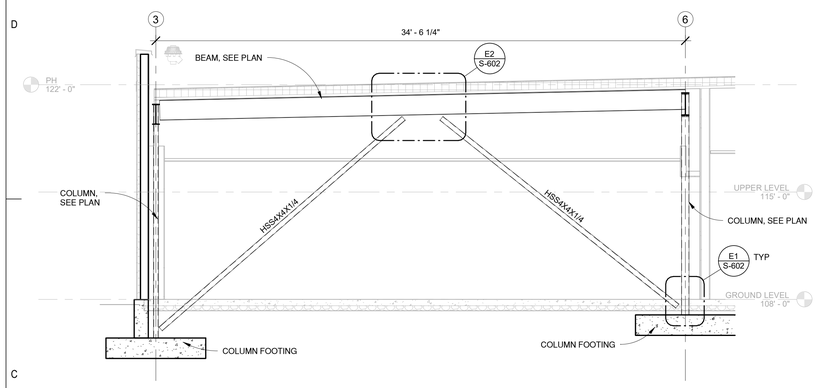
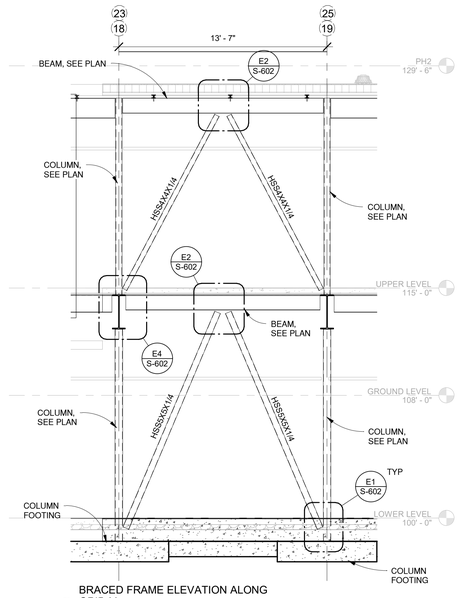


BRACED FRAME ELEVATION ALONG GRID C
E6 1/4" = 1'-0"



BRACED FRAME ELEVATION ALONG GRID P
C1 1/4" = 1'-0"



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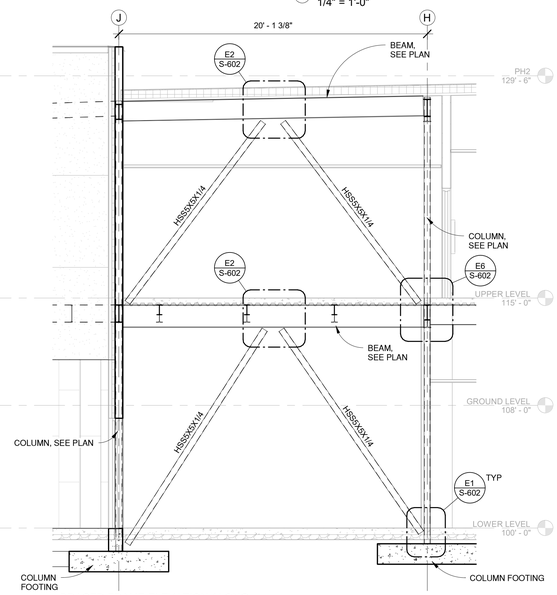
C3 1/4" = 1'-0"



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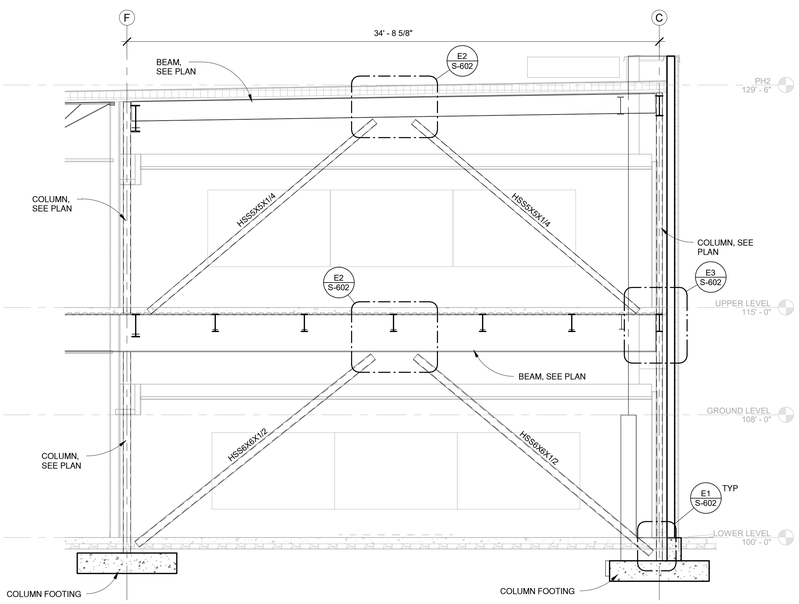
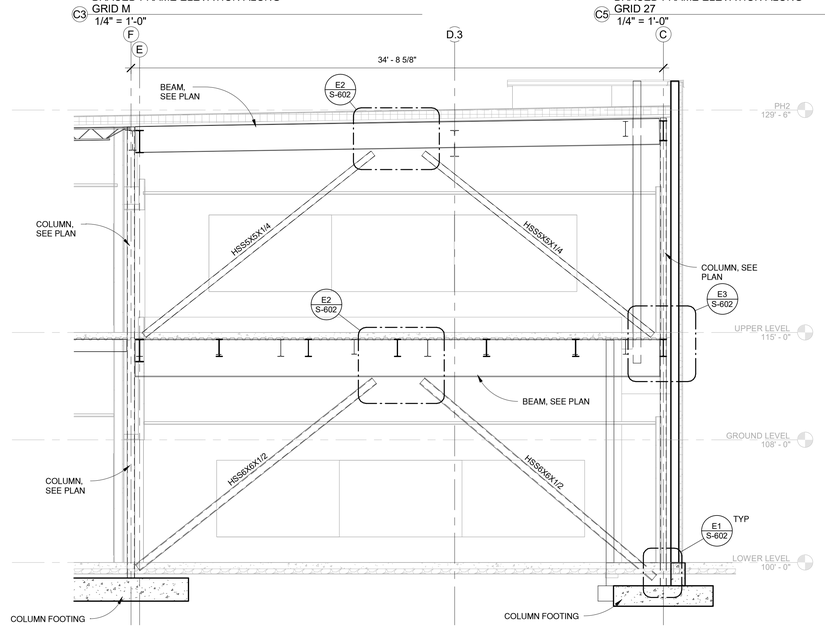
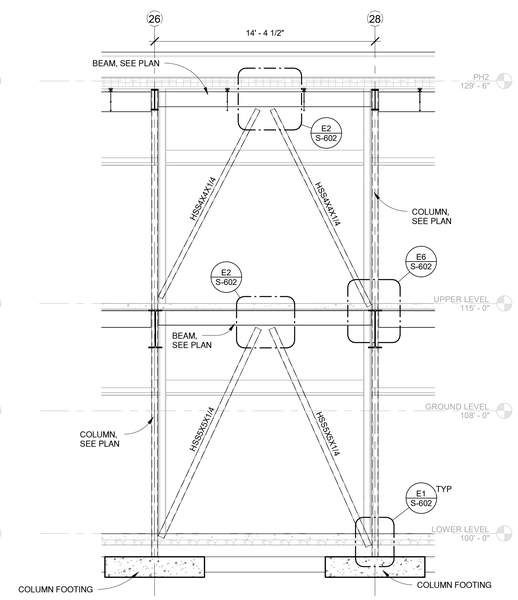
C6 1/4" = 1'-0"



BRACED FRAME ELEVATION ALONG GRID 14
A1 1/4" = 1'-0"



BRACED FRAME ELEVATION ALONG GRID 24
A4 1/4" = 1'-0"



BRACED FRAME ELEVATION ALONG GRID C
A6 1/4" = 1'-0"

7/23/2024 10:16:14 AM

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CONSTRUCTION DOCUMENTS
MARCH 21, 2024

MARK	DATE	DESCRIPTION

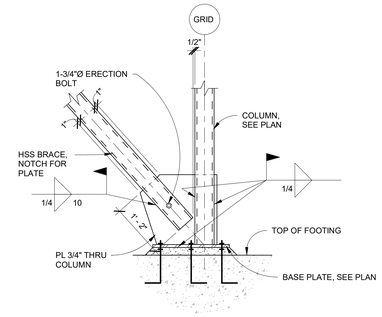
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE

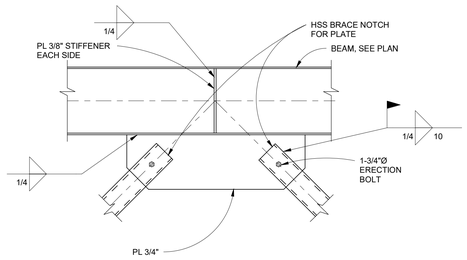
BRACED FRAME ELEVATIONS & DETAILS

S-601

Farmington Preschool Academy



E1 BRACED FRAME DETAIL
3/4" = 1'-0"



E2 BRACED FRAME DETAIL
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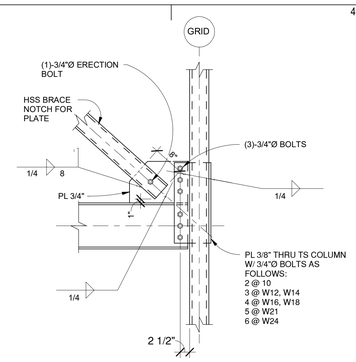

E3 BRACED FRAME DETAIL
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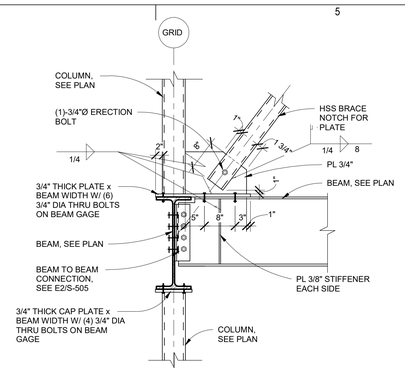
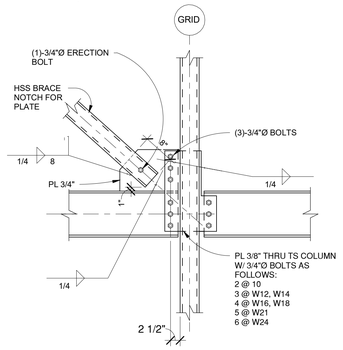
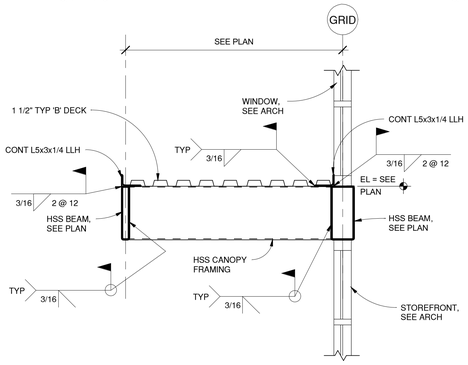


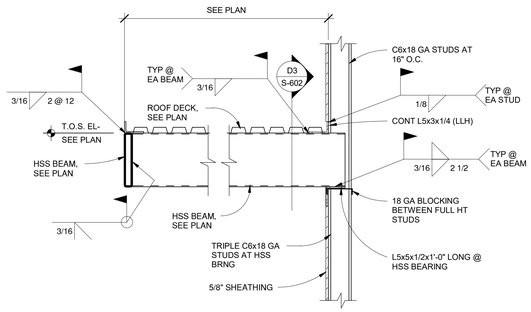
E4 BRACED FRAME DETAIL
3/4" = 1'-0"



E6 BRACED FRAME DETAIL
3/4" = 1'-0"



D1 SECTION AT CANOPY
3/4" = 1'-0"



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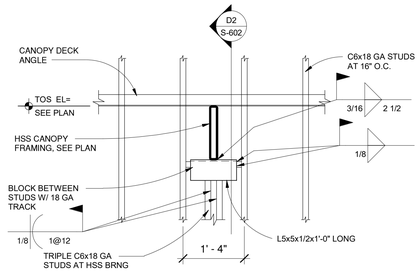
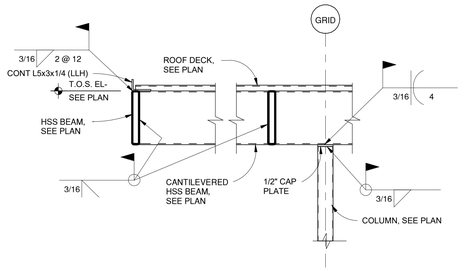
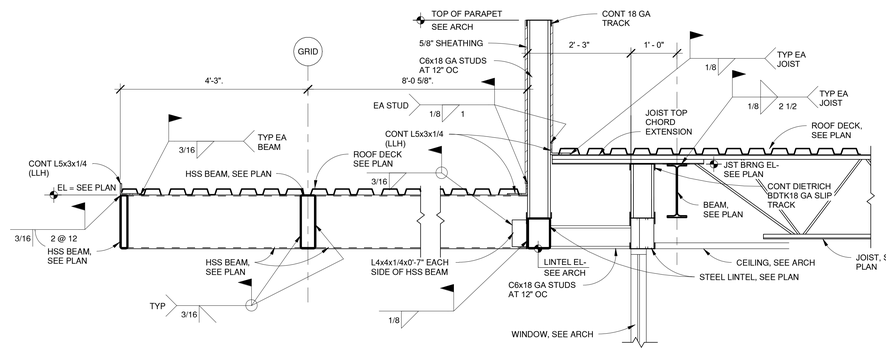
3/4" = 1'-0"



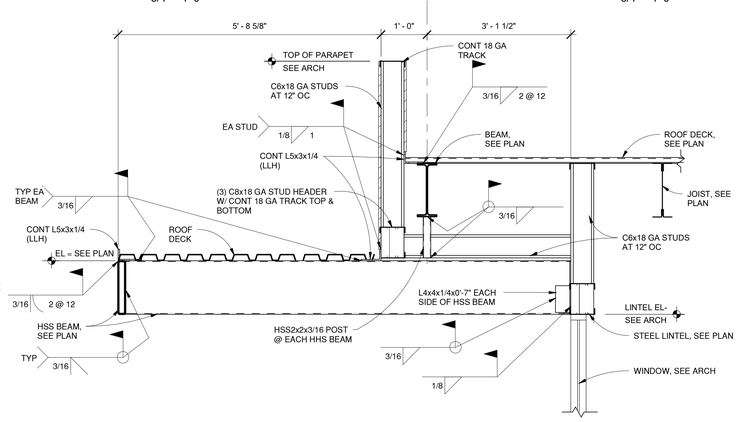
D3 SECTION
3/4" = 1'-0"



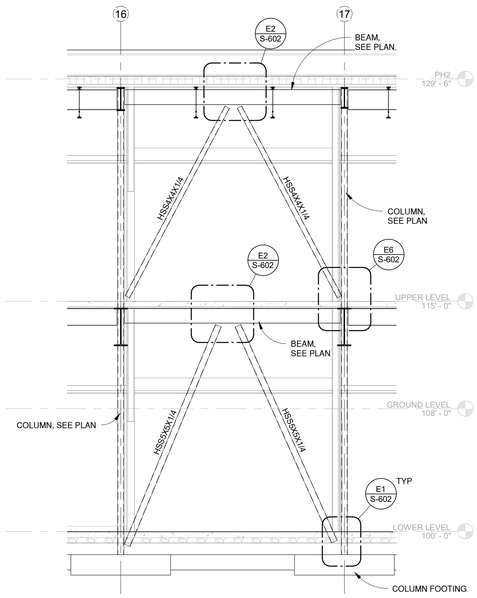
D5 SECTION
3/4" = 1'-0"



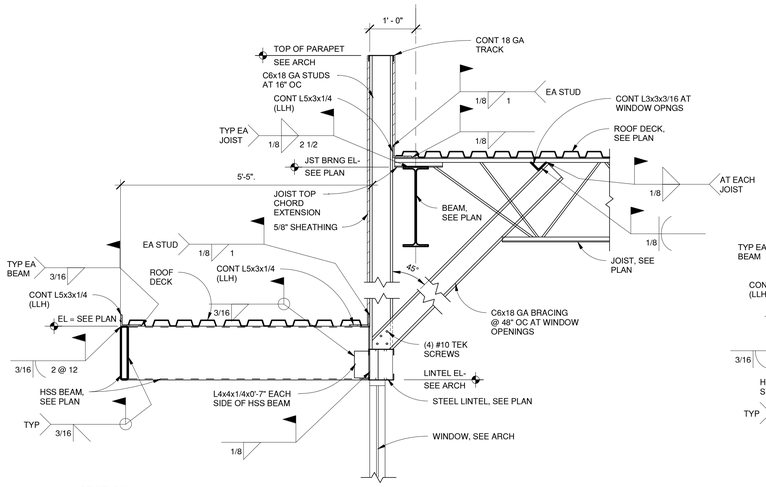
C1 SECTION
3/4" = 1'-0"



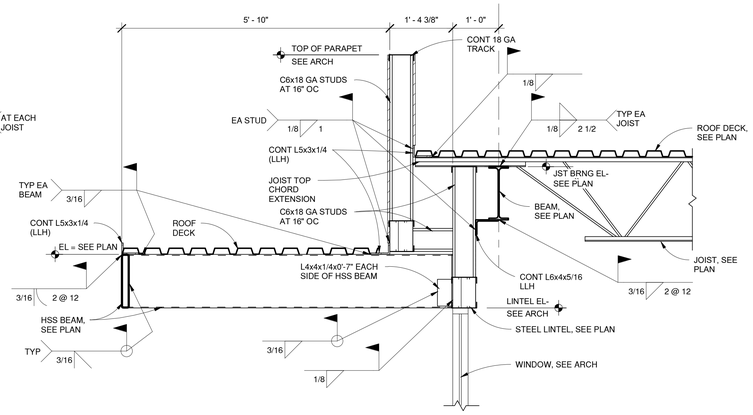
C4 SECTION
3/4" = 1'-0"



BRACED FRAME ELEVATION ALONG GRID C
B6 1/4" = 1'-0"



A1 SECTION
3/4" = 1'-0"



A3 SECTION
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

MARCH 21, 2024

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CHECKED BY:	MJW

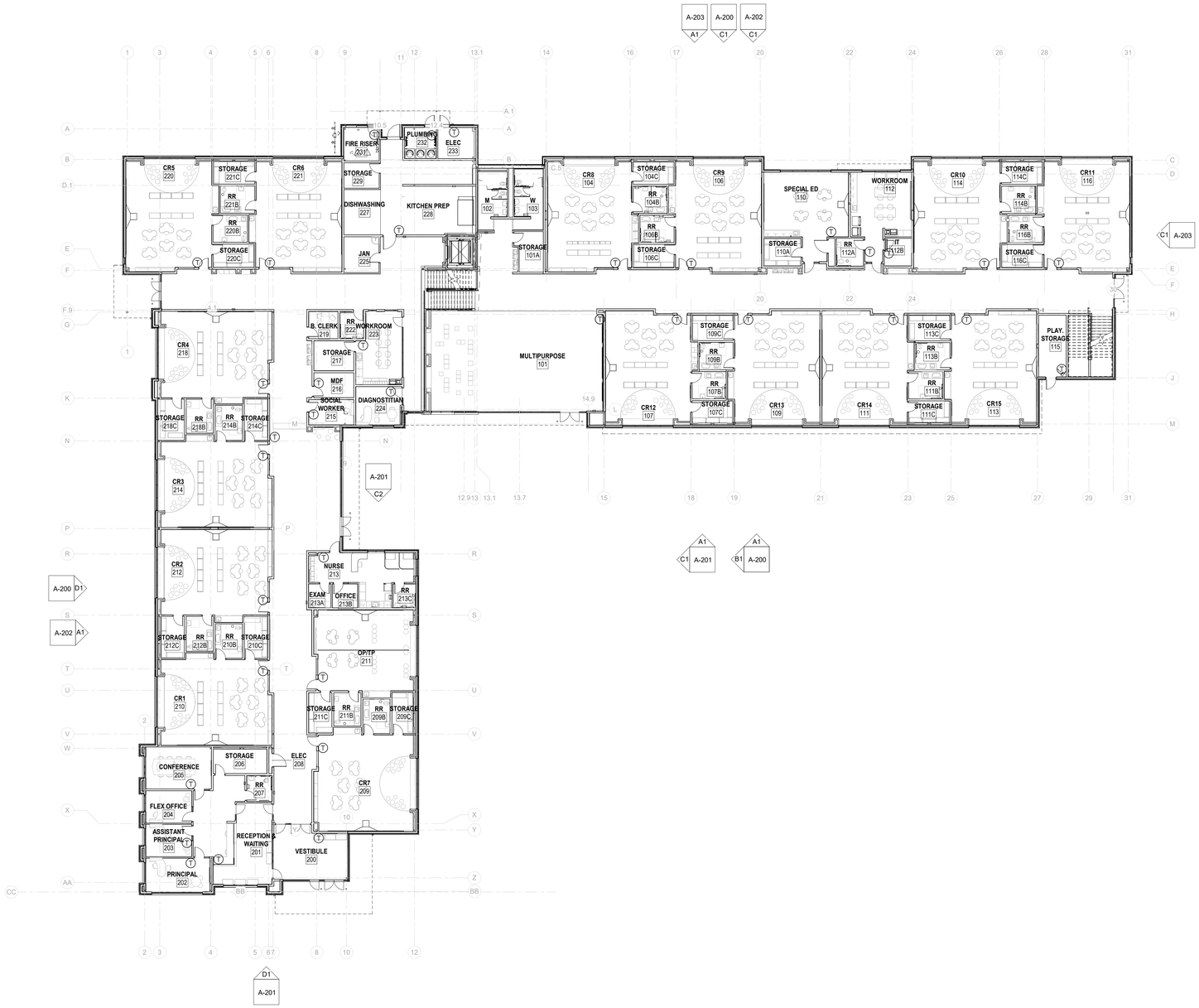
SHEET TITLE

BRACED FRAME DETAILS & FRAMING SECTIONS

S-602

7/23/2024 10:16:17 AM

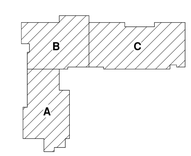
Farmington Preschool Academy



A1 OVERALL - GROUND & LOWER LEVEL
1/16" = 1'-0"

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER



KEY PLAN N.T.S.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED ARCHITECT
ARCHITECT

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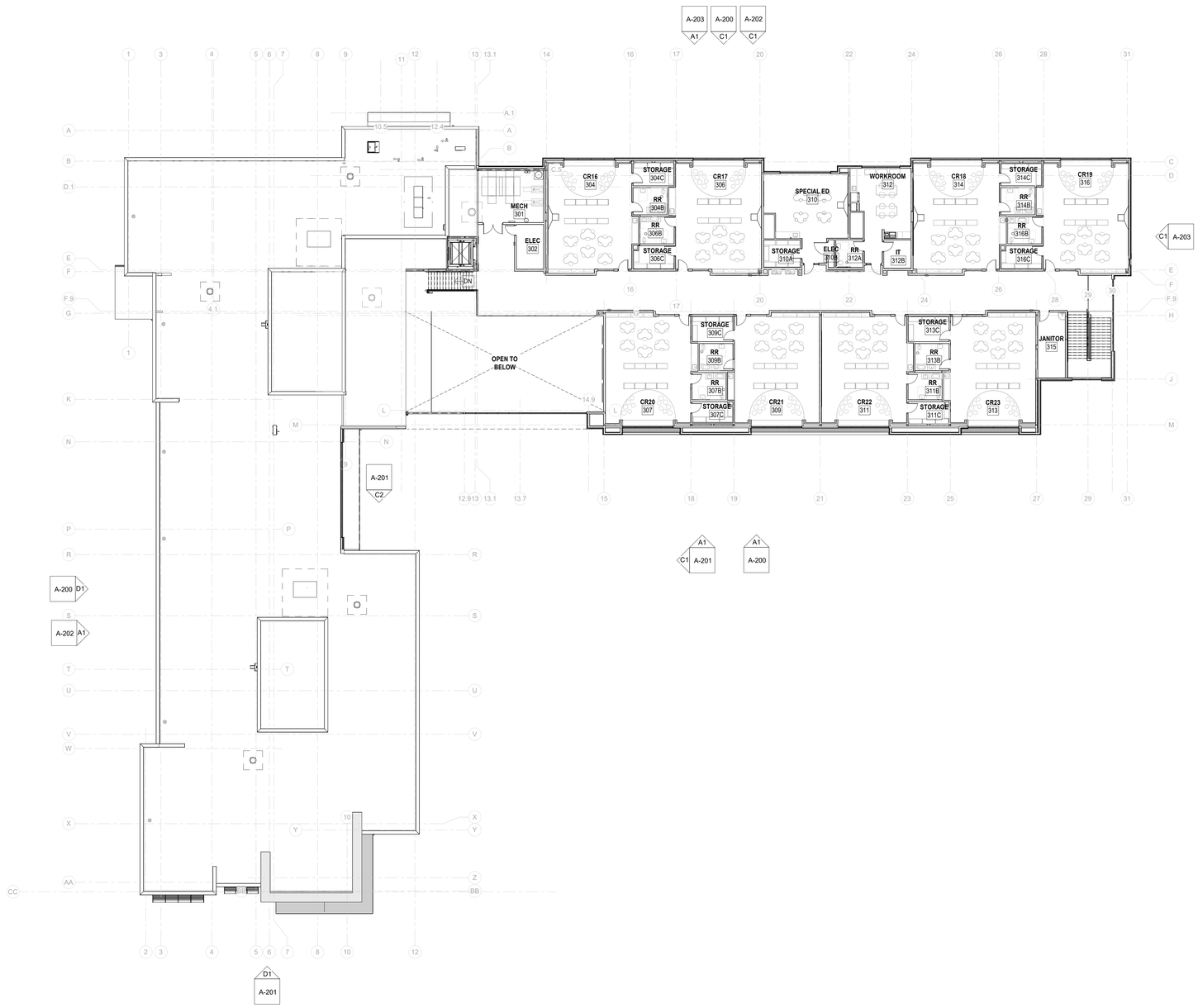
CHECKED BY:	

SHEET TITLE
OVERALL FLOOR PLAN - GROUND & LOWER LEVEL

A-100

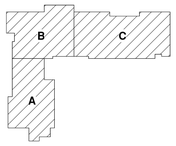
Farmington Preschool Academy



A1 OVERALL - UPPER LEVEL
1/16" = 1'-0"

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER



KEY PLAN N.T.S.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED ARCHITECT

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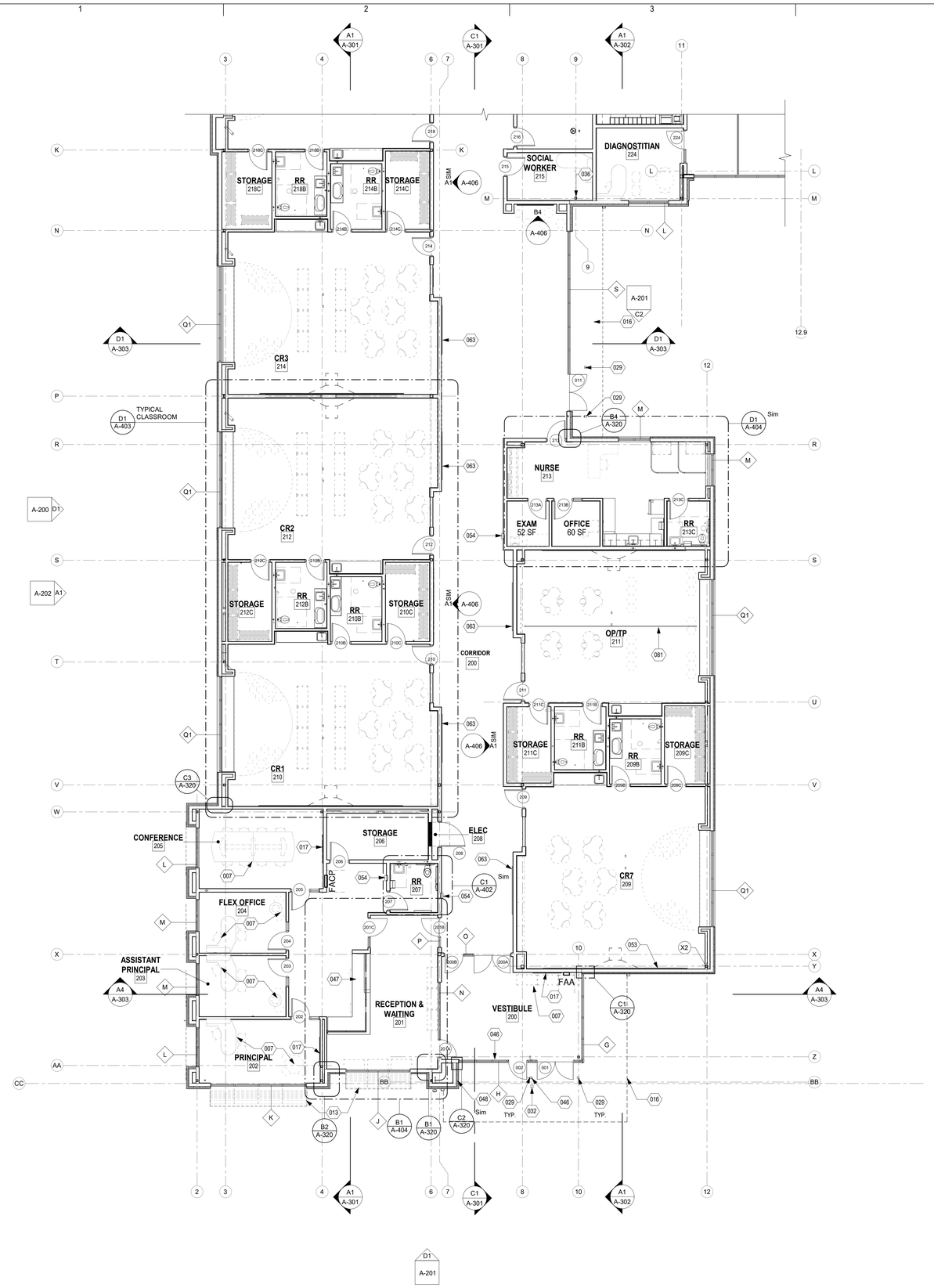
SHEET TITLE
OVERALL FLOOR PLAN - UPPER FLOOR

A-101

Farmington Preschool Academy



A1 FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

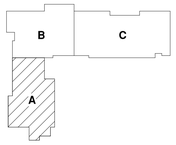
J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101 / 1 Ref / 1 Ref / 1 Ref	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

007	DASHED EQUIPMENT/FURNISHING NOT IN CONTRACT.
013	ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW FRAME PER MANUFACTURER'S RECOMMENDATIONS. SEE WALL SECTIONS.
016	OVERHEAD STRUCTURE. SEE RCP & ROOF PLANS.
017	ROUGH IN FOR WALL MOUNTED SMART TV. SEE ELECTRICAL. FURNISH AND INSTALL BACKING IN WALL.
029	POST DOORSTOP. SEE SITE DETAILS.
032	STEEL POST FOR HANDICAP. ACCESS CONTROL - SEE SITE PLAN.
036	EXPOSED STEEL COLUMN, SEE STRUCTURAL.
046	POWER ACTUATED DOOR OPENER SWITCH BUTTON. COORDINATE WIRING RUN THROUGH DOOR FRAME. SEE HARDWARE SCHEDULE AND COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL DRAWINGS. INSTALL PNEUMATIC CONTROL BOX FOR DOOR OPERATOR ABOVE CEILING. MOUNT SWITCH PER ANSI STANDARDS.
047	RECEPTION DESK. SEE ENLARGED PLANS.
048	RECESSED KNOX BOX. KNOX COMPANY MODEL #3272, ALUMINUM FINISH WITH HINGED DOOR AND RECESSED MOUNTING KIT(1-800-582-5669) OR APPROVED EQUIVALENT. COORDINATE FINAL LOCATION WITH ARCHITECT AND FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION.
053	FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.
054	SEMI-RECESSED FIRE EXTINGUISHER CABINET. RATED AS REQUIRED. SEE PARTITION TYPES. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
063	TACK BOARD WITH ALUMINUM TRIM. SEE INTERIOR ELEVATIONS.
081	CEILING MOUNTED PRIVACY CURTAIN AND TRACK.



KEY PLAN
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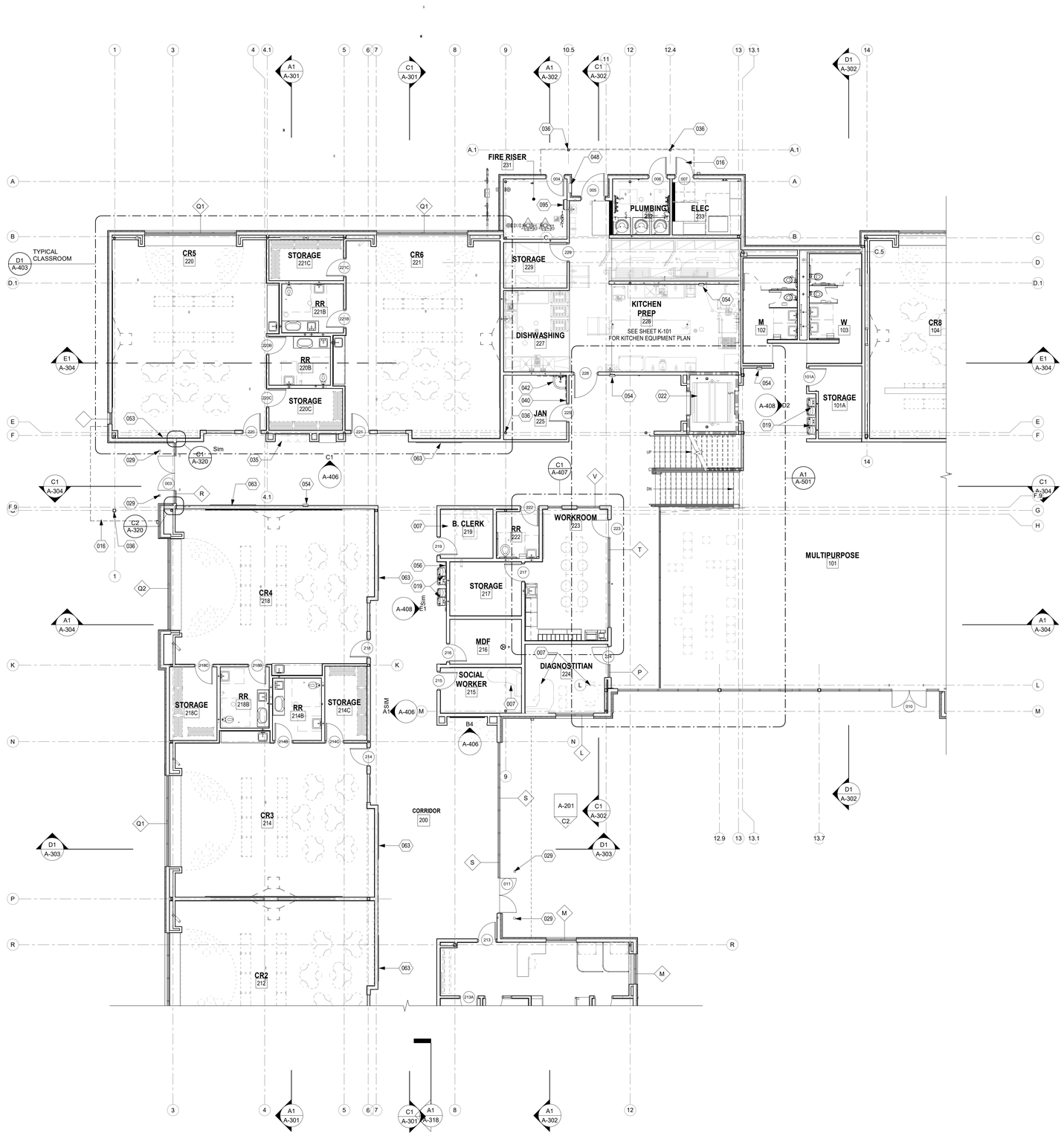
SHEET TITLE
FLOOR PLAN - GROUND LEVEL 'A'

A-101A

Farmington Preschool Academy



A1 FLOOR PLAN - GROUND LEVEL 'B'
1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

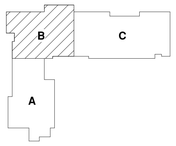
J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

007	DASHED EQUIPMENT/FURNISHING NOT IN CONTRACT.
016	OVERHEAD STRUCTURE, SEE RCP & ROOF PLANS.
019	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING.
022	HYDROLIC ELEVATOR WITH FRONT AND BACK DOORS.
029	POST DOORSTOP. SEE SITE DETAILS.
035	BUILT-IN BENCH. SEE DETAIL D4/A401 .
036	EXPOSED STEEL COLUMN. SEE STRUCTURAL.
040	DASHED LINE INDICATES FRP PANEL TO 8'-0" AFF.
042	MOP SINK WITH MOP RACK. SEE PLUMBING.
048	RECESSED KNOX BOX. KNOX COMPANY MODEL #3272, ALUMINUM FINISH WITH HINGED DOOR AND RECESSED MOUNTING KIT(1-800-582-5669) OR APPROVED EQUIVALENT. COORDINATE FINAL LOCATION WITH ARCHITECT AND FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION.
053	FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.
054	SEMI-RECESSED FIRE EXTINGUISHER CABINET. RATED AS REQUIRED. SEE PARTITION TYPES. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
056	WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE. SEE ID SHEETS FOR MATERIAL FINISH AND PATTERN.
063	TACK BOARD WITH ALUMINUM TRIM. SEE INTERIOR ELEVATIONS.
095	ROOF ACCESS LADDER AND HATCH. SEE ROOF DETAILS.



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MARCH 2024

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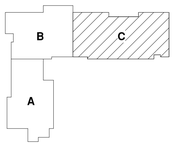
SHEET TITLE
FLOOR PLAN - GROUND LEVEL 'B'

A-101B

Farmington Preschool Academy



KEY PLAN

N.T.S.

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

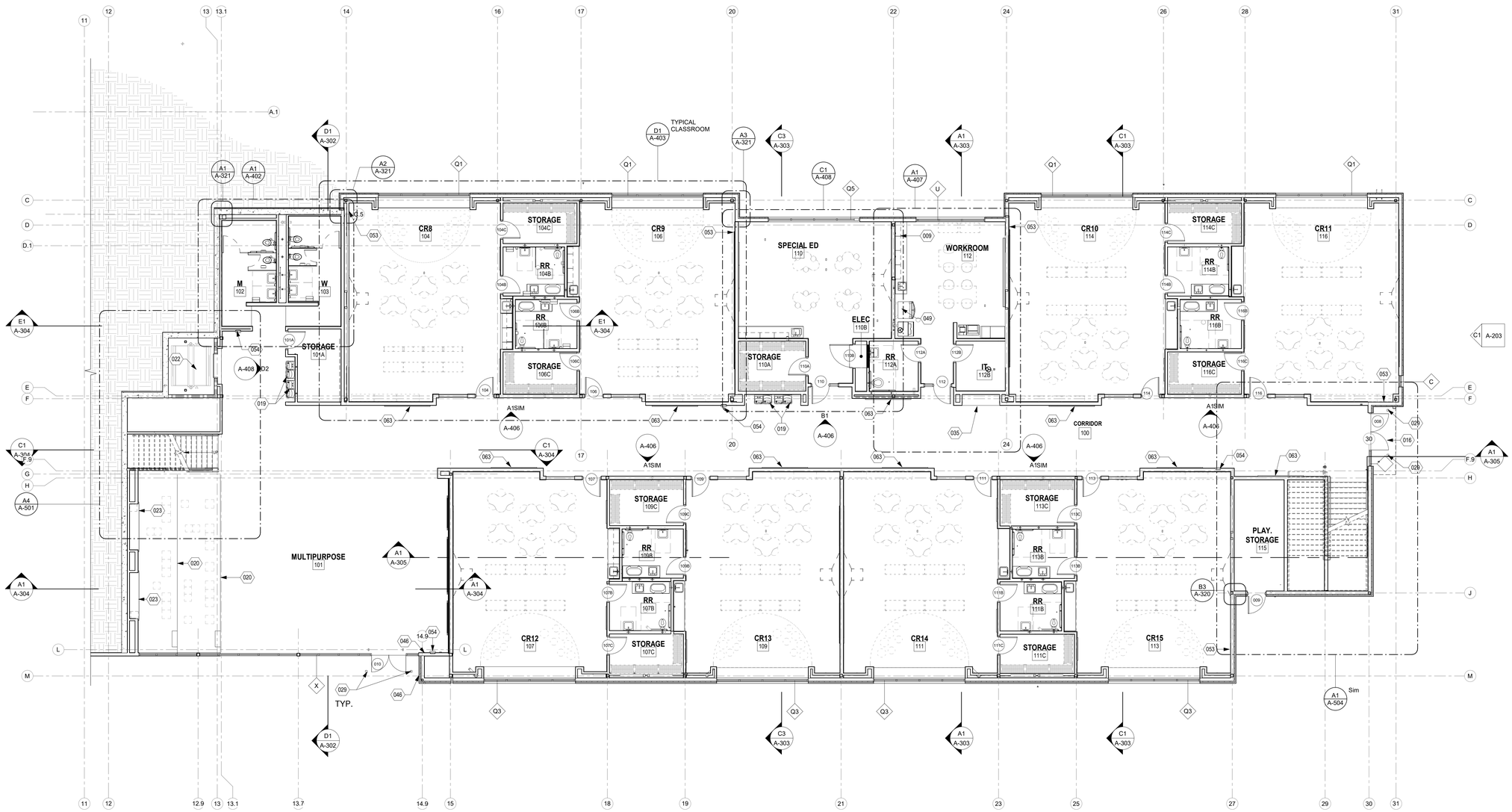
J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101 / 1 Ref	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

009	CASEWORK, UPPER AND LOWER CABINETS WHERE SHOWN. SEE ENLARGED PLANS AND ELEVATIONS.
016	OVERHEAD STRUCTURE, SEE RCP & ROOF PLANS.
019	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING.
020	STEEPED SLAB. SEE DETAIL A5/A405.
022	HYDROLIC ELEVATOR WITH FRONT AND BACK DOORS.
023	DEEP SET BENCH. SEE DETAIL D2/A405.
029	POST DOORSTOP. SEE SITE DETAILS.
035	BUILT-IN BENCH. SEE DETAIL D4/A401.
046	POWER ACTUATED DOOR OPENER SWITCH BUTTON. COORDINATE WIRING RUN THROUGH DOOR FRAME. SEE HARDWARE SCHEDULE AND COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL DRAWINGS. INSTALL PNEUMATIC CONTROL BOX FOR DOOR OPERATOR ABOVE CEILING. MOUNT SWITCH PER ANSI STANDARDS.
049	REFRIGERATOR, NOT IN CONTRACT, FURNISH AND INSTALL ALL REQUIRED ROUGH INS. SEE MECHANICAL, ELECTRICAL AND PLUMBING.
053	FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.
054	SEMI-RECESSED FIRE EXTINGUISHER CABINET, RATED AS REQUIRED. SEE PARTITION TYPES. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
063	TACK BOARD WITH ALUMINUM TRIM. SEE INTERIOR ELEVATIONS.



A1 FLOOR PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

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SHEET TITLE

FLOOR PLAN - LOWER LEVEL 'C'

A-101C

Farmington Preschool Academy

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

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H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

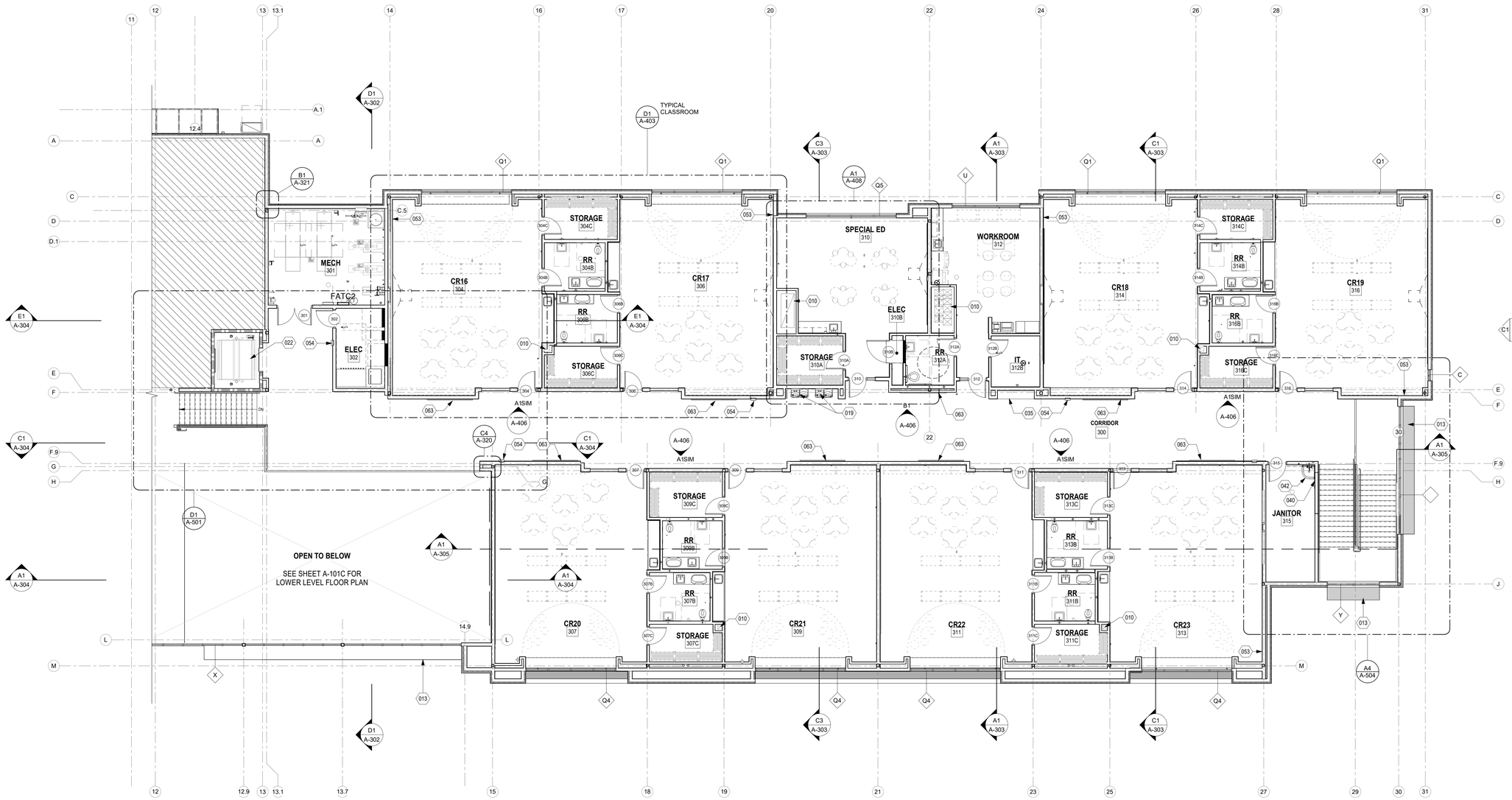
J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

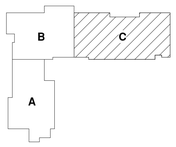
XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

010	CHASE FOR HVAC DUCT. COORDINATE CLEAR OPENING REQUIREMENTS WITH MECHANICAL AND STRUCTURAL, PRIOR TO FABRICATION. PROVIDE FIREBLOKING ACCURATELY FITTED TO CLOSE OPENINGS AT EACH FLOOR LEVEL, CELINGS, AND ROOF.
013	ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW FRAME PER MANUFACTURER'S RECOMMENDATIONS. SEE WALL SECTIONS.
019	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING.
022	HYDROLIC ELEVATOR WITH FRONT AND BACK DOORS.
035	BUILT-IN BENCH. SEE DETAIL D4/A401.
040	DASHED LINE INDICATES FRP PANEL TO 8'-0" AFF.
042	MOP SINK WITH MOP RACK. SEE PLUMBING.
053	FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.
054	SEMI-RECESSED FIRE EXTINGUISHER CABINET. RATED AS REQUIRED. SEE PARTITION TYPES. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
063	TACK BOARD WITH ALUMINUM TRIM. SEE INTERIOR ELEVATIONS.



A1 FLOOR PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"



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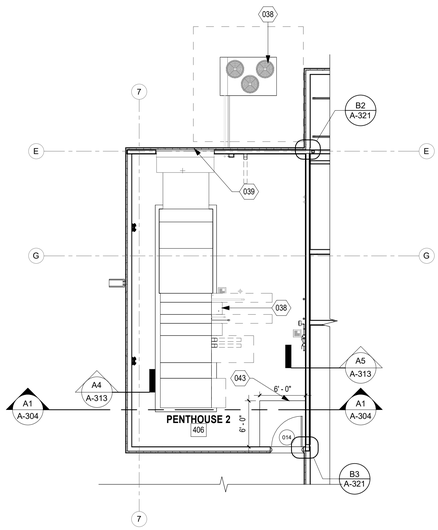
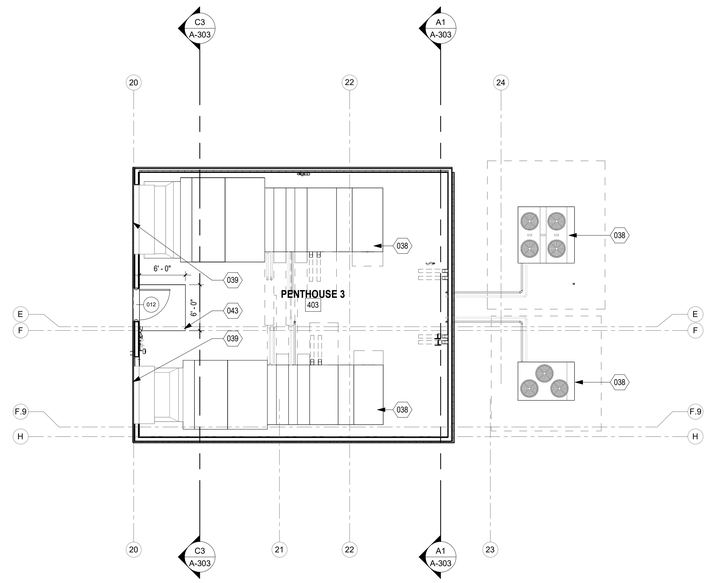
SHEET TITLE
FLOOR PLAN - UPPER LEVEL 'C'

A-102C

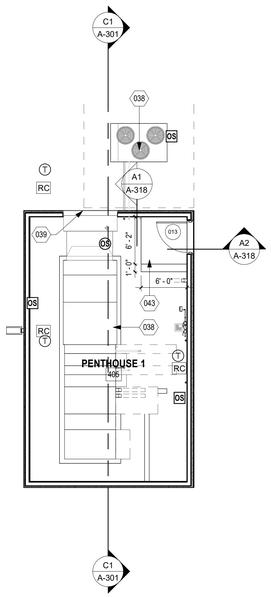
Farmington Preschool Academy



C1 FLOOR PLAN - PENTHOUSE 2
1/8" = 1'-0"



C4 FLOOR PLAN - PENTHOUSE 3
1/8" = 1'-0"



A1 FLOOR PLAN - PENTHOUSE 1
1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

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J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101 / 1 Ref	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

038	MECHANICAL EQUIPMENT ON 4" MIN CONCRETE HOUSEKEEPING PAD. COORDINATE WITH MECHANICAL REQUIREMENTS FOR EXACT HOUSEKEEPING PAD DEPTH. SEE STRUCTURAL.
039	MECHANICAL LOUVER. SEE MECHANICAL. COORDINATE OPENING LOCATION WITH BUILDING ELEVATION.
043	CONCRETE STEP. SEE STRUCTURAL.

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SHEET TITLE

FLOOR PLAN - MECHANICAL PENTHOUSE

A-103

Farmington Preschool Academy

A1 DIMENSION PLAN - GROUND & LOWER LEVEL
1/16" = 1'-0"

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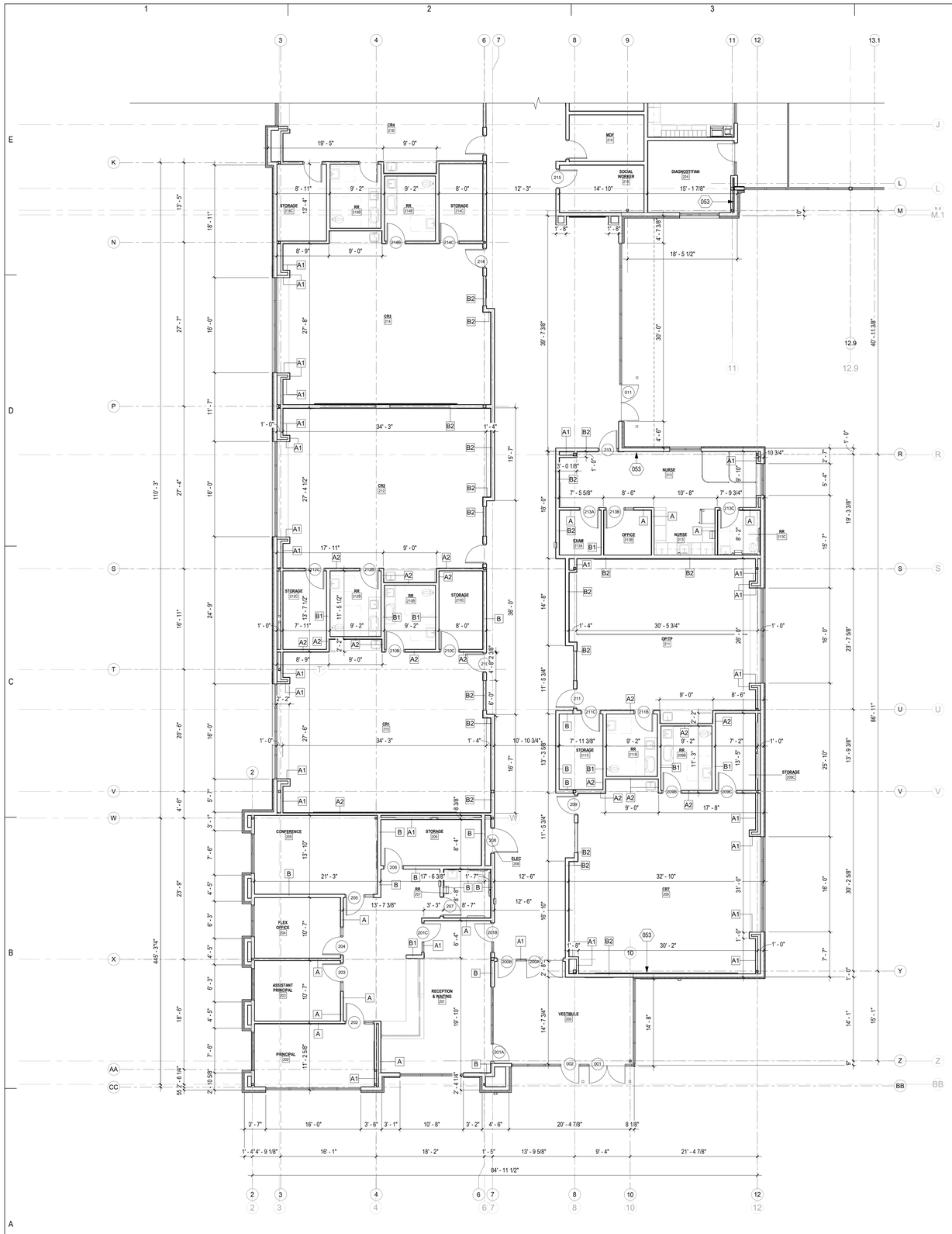
SHEET TITLE
DIMENSION PLAN - OVERALL

A-110

Farmington Preschool Academy



A1 DIMENSION PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF STEEL STUDS OR MASONRY, UNLESS NOTED OTHERWISE.

B. REFER TO ENLARGED PLAN FOR ADDITIONAL DIMENSIONS & DETAILED SPACE LAYOUTS.

C. SEE SITE PLAN FOR BUILDING LOCATION LAYOUT.

D. SEE PARTITION DETAILS SHEET A-501 FOR PARTITION INFORMATION.

E. SEE ANSI GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. SEE FLOOR PLANS, REFLECTED CEILING PLANS, AND ID SHEETS FOR FLOOR, WALL AND CEILING INFORMATION.

G. COLUMN GRIDS "I" AND "O" ARE NOT USED.

H. FURNISH AND INSTALL 5/8" FIBERROCK VHI TYPE "X" GYP. BOARD TO 8'-0" F.F AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

I. FURNISH AND INSTALL LEVEL 4 DRYWALL FINISH AT ALL LOCATIONS OR ERASE-RITE AND TACK WALL COVERINGS.

J. FURNISH AND INSTALL WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

K. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

L. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYPSUM BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE LOCATIONS.

SYMBOL LEGEND

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1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

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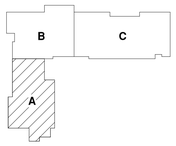

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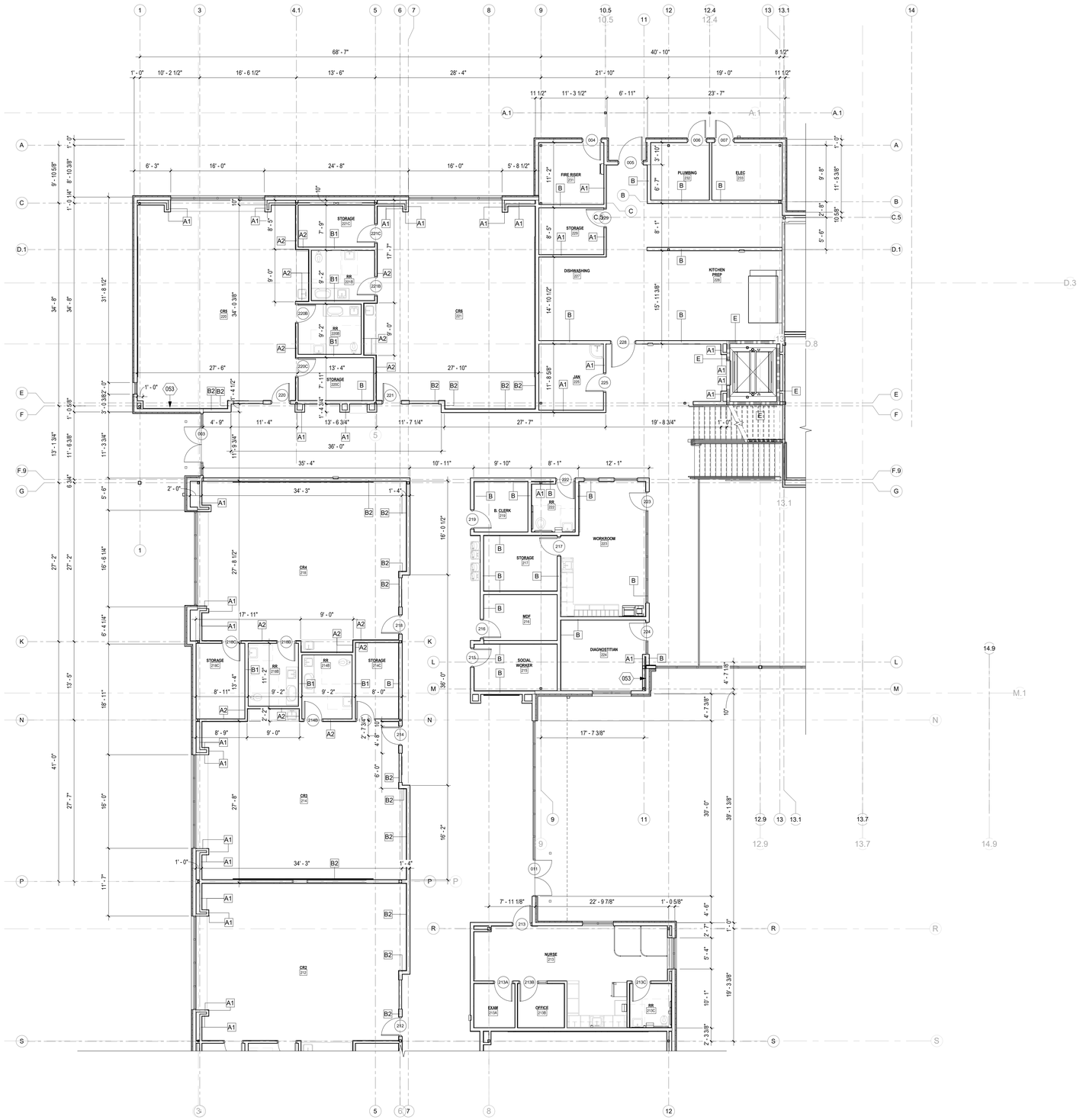
DIMENSION PLAN - GROUND LEVEL 'A'

A-111

Farmington Preschool Academy



A1 DIMENSION PLAN - GROUND LEVEL 'B'
1/8" = 1'-0"

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF STEEL STUDS OR MASONRY, UNLESS NOTED OTHERWISE.

B. REFER TO ENLARGED PLAN FOR ADDITIONAL DIMENSIONS & DETAILED SPACE LAYOUTS.

C. SEE SITE PLAN FOR BUILDING LOCATION LAYOUT.

D. SEE PARTITION DETAILS SHEET A-501 FOR PARTITION INFORMATION.

E. SEE ANSI GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. SEE FLOOR PLANS, REFLECTED CEILING PLANS, AND ID SHEETS FOR FLOOR, WALL AND CEILING INFORMATION.

G. COLUMN GRIDS "1" AND "O" ARE NOT USED.

H. FURNISH AND INSTALL 5/8" FIBERROCK VHI TYPE "X" GYP. BOARD TO 8'-0".F.F AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

I. FURNISH AND INSTALL LEVEL 4 DRYWALL FINISH AT ALL LOCATIONS OR ERASE-RITE AND TACK WALL COVERINGS.

J. FURNISH AND INSTALL WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

K. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

L. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYPSUM BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE LOCATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / Ref A101 Ref / Ref 1 Ref	INTERIOR ELEVATION
1 A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
4	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

053 FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.

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CONSTRUCTION DOCUMENTS
MARCH 2024

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CHECKED BY:	

SHEET TITLE

DIMENSION PLAN - GROUND LEVEL 'B'

A-112

Farmington Preschool Academy

KEYNOTES

053 FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF STEEL STUDS OR MASONRY, UNLESS NOTED OTHERWISE.

B. REFER TO ENLARGED PLAN FOR ADDITIONAL DIMENSIONS & DETAILED SPACE LAYOUTS.

C. SEE SITE PLAN FOR BUILDING LOCATION LAYOUT.

D. SEE PARTITION DETAILS SHEET A-501 FOR PARTITION INFORMATION.

E. SEE ANSI GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. SEE FLOOR PLANS, REFLECTED CEILING PLANS, AND ID SHEETS FOR FLOOR, WALL AND CEILING INFORMATION.

G. COLUMN GRIDS "1" AND "O" ARE NOT USED.

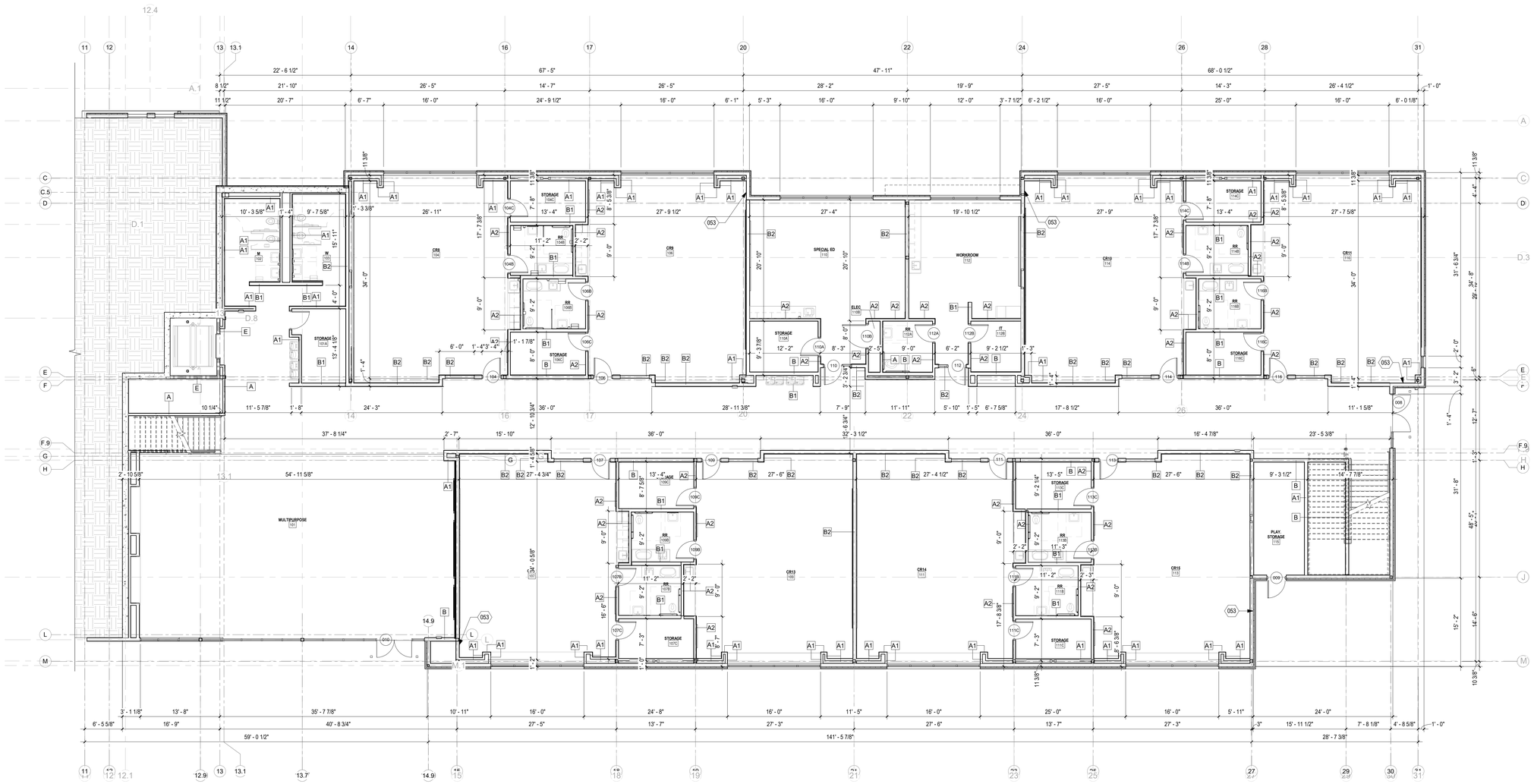
H. FURNISH AND INSTALL 5/8" FIBERROCK VHI TYPE "X" GYP. BOARD TO 8'-0".F.F AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

I. FURNISH AND INSTALL LEVEL 4 DRYWALL FINISH AT ALL LOCATIONS OR ERASE-RITE AND TACK WALL COVERINGS.

J. FURNISH AND INSTALL WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

K. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

L. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYPSUM BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE LOCATIONS.



A1 DIMENSION PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

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SHEET TITLE
DIMENSION PLAN - LOWER LEVEL 'C'

A-113

Farmington Preschool Academy

KEYNOTES

053 FURNISH AND INSTALL ADDITIONAL LAYER OF 5/8" GYPSUM BOARD ON THIS EXTERIOR WALL TO ALIGN FURNISHED SURFACE WITH INTERIOR PARTITION WALL.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF STEEL STUDS OR MASONRY, UNLESS NOTED OTHERWISE.

B. REFER TO ENLARGED PLAN FOR ADDITIONAL DIMENSIONS & DETAILED SPACE LAYOUTS.

C. SEE SITE PLAN FOR BUILDING LOCATION LAYOUT.

D. SEE PARTITION DETAILS SHEET A-501 FOR PARTITION INFORMATION.

E. SEE ANSI GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. SEE FLOOR PLANS, REFLECTED CEILING PLANS, AND ID SHEETS FOR FLOOR, WALL AND CEILING INFORMATION.

G. COLUMN GRIDS "I" AND "O" ARE NOT USED.

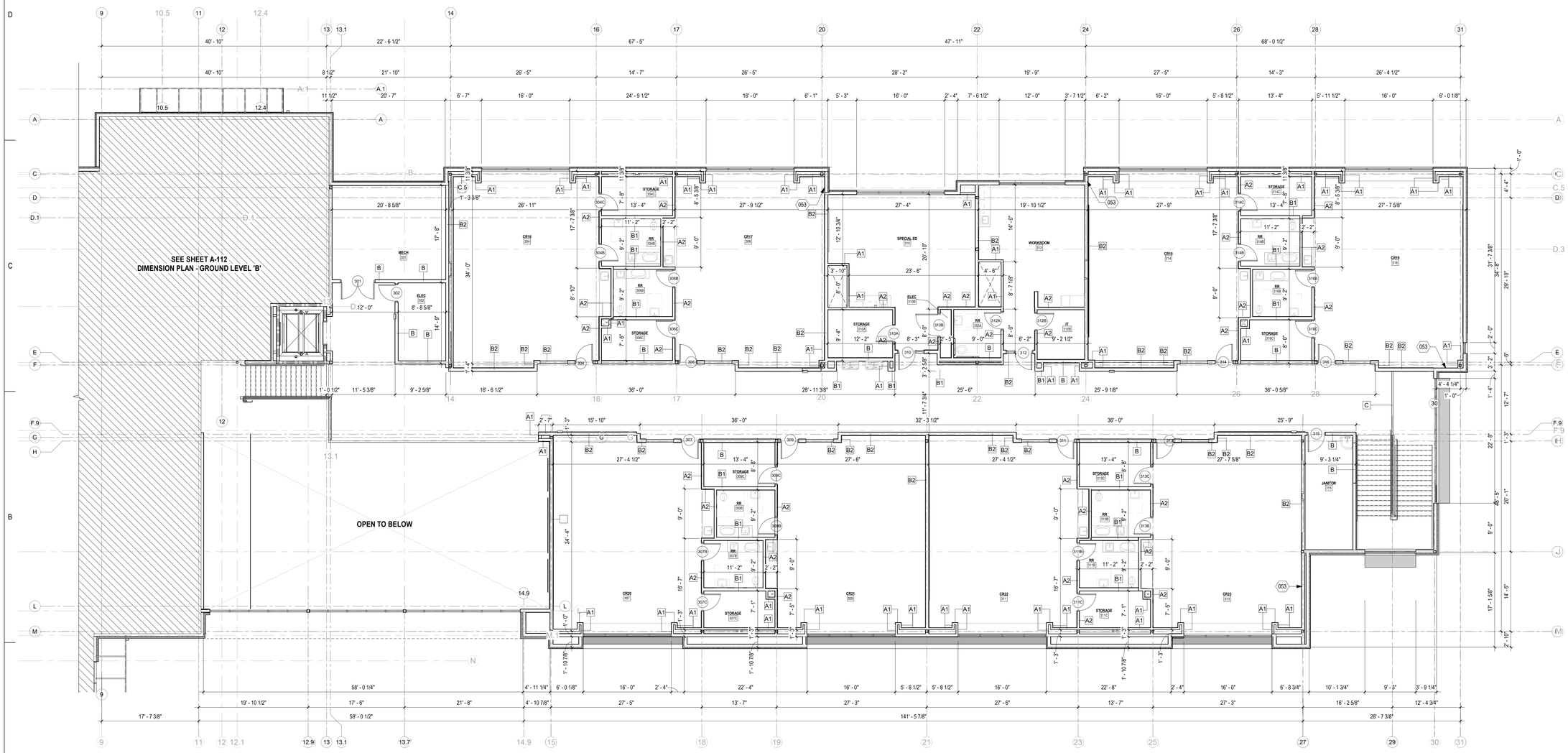
H. FURNISH AND INSTALL 5/8" FIBERROCK VHI TYPE "X" GYP. BOARD TO 8'-0" F.F AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

I. FURNISH AND INSTALL LEVEL 4 DRYWALL FINISH AT ALL LOCATIONS OR ERASE-RITE AND TACK WALL COVERINGS.

J. FURNISH AND INSTALL WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

K. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

L. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYPSUM BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE LOCATIONS.



A1 DIMENSION PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"

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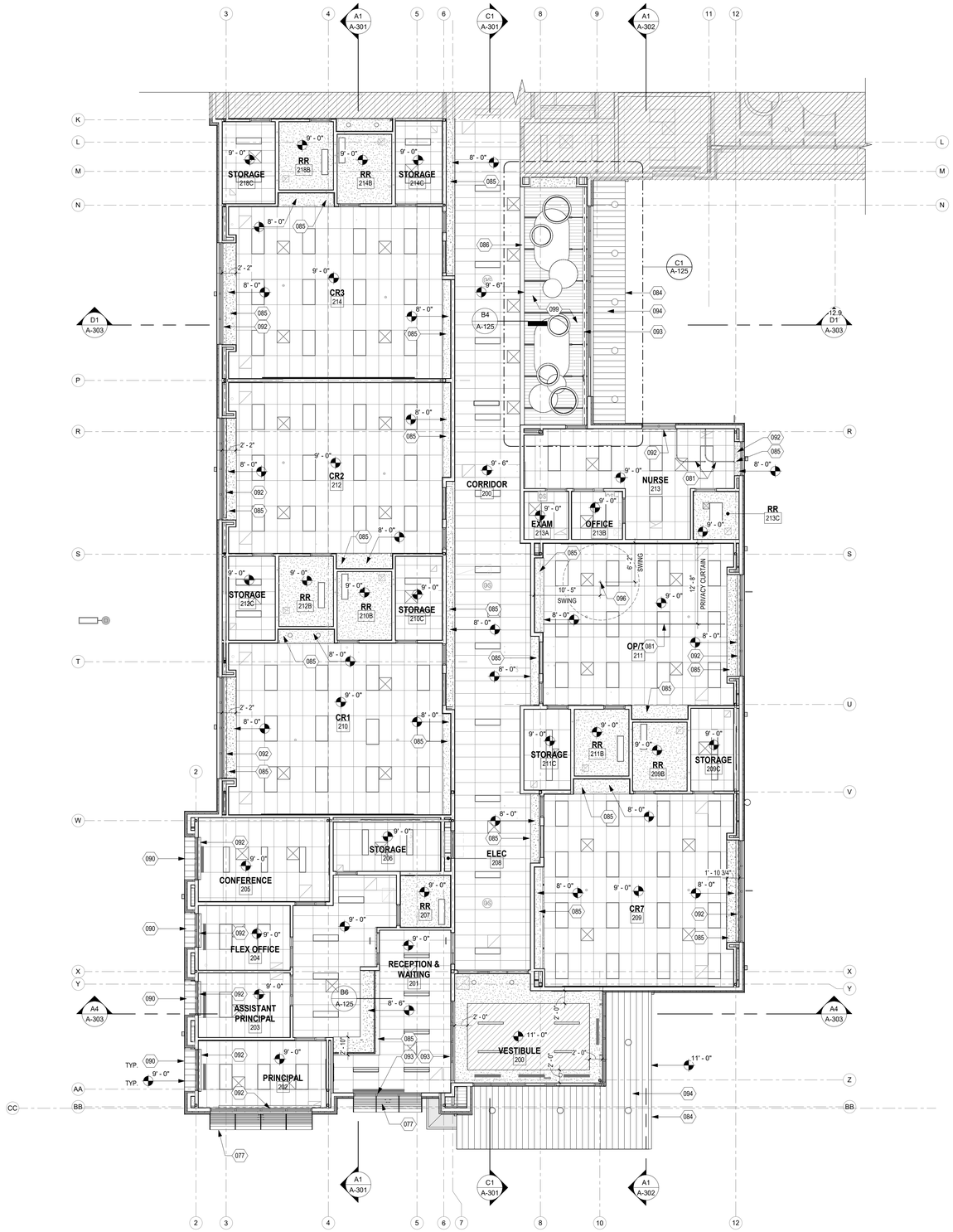
DIMENSION PLAN - UPPER LEVEL 'C'

A-114

Farmington Preschool Academy



A1 RCP - GROUND LEVEL 'A'
1/8" = 1'-0"

GENERAL NOTES

A. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.

B. CONTROL DRYWALL TEXTURE OVER SPRAY AT ALL LOCATIONS OF EXPOSED CEILING. ENSURE NO OVER SPRAY ON STRUCTURE AND/OR BATT INSULATION.

C. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION WORK TO ACCOMPLISH CEILING HEIGHTS. NOTIFY ARCHITECTS OF ANY CONFLICTS PRIOR TO INSTALLATION.

D. EXACT LOCATION OF SPRINKLER HEADS AND ALL SPECIAL SYSTEMS EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT PRIOR TO SYSTEM INSTALLATION. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILE.

E. SEE ID SHEETS FOR WALL ACCENT PAINT COLORS.

F. ALL PAINT COLORS TO BE SELECTED BY ARCHITECT UNLESS NOTED OTHERWISE.

G. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH MECHANICAL AND PLUMBING.

H. ALL DIMENSIONS ARE TO FACE OF FINISH.

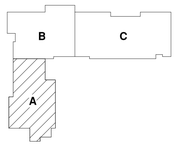
REFLECTED CEILING LEGEND

- SIM / 1 / A101 — BUILDING /WALL SECTION
- SPOT ELEVATION
- GYPSUM BOARD CEILING, TAPE, TEXTURE AND PAINT.
- ACOUSTICAL TECTUM CEILING PANEL SYSTEM
- 2' X 4' ACOUSTIC. LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- 2' X 4' ACOUSTIC VINYL LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- SUPPLY AIR DIFFUSER. SEE MECHANICAL.
- RETURN AIR DIFFUSER. SEE MECHANICAL.
- LIGHT FIXTURES. NOT ALL TYPES SHOWN IN THIS LEGEND. SEE ELECTRICAL FOR COMPLETE FIXTURE SCHEDULE

NOTE: REFER ALSO TO ELECTRICAL AND MECHANICAL DRAWINGS FOR REFLECTED CEILING PLAN ITEMS NOT SHOWN OR NOTED ON ARCHITECTURAL REFLECTED CEILING PLANS

KEYNOTES

077	ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW FRAME PER MANUFACTURER'S RECOMMENDATIONS. SEE WALL SECTIONS.
081	CEILING MOUNTED PRIVACY CURTAIN AND TRACK.
084	EXTERIOR CANOPY. SEE BUILDING AND WALL SECTIONS. SEE STRUCTURAL.
085	GYP BOARD SOFFIT. SEE DETAILS SHEET A-125.
086	GYP BOARD BULKHEAD. PAINT. SEE DETAILS SHEET A-125.
090	METAL WALL PANEL. SEE BUILDING SECTIONS & WINDOW DETAILS.
092	MANUAL ROLLER SHADE.
093	MOTORIZED ROLLER SHADE.
094	PREFINISHED METAL SOFFIT PANEL. SEE WALL SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
096	SENSORY SWING. PROVIDE STRUCTURE AND STEEL CONNECTION.
099	EXPOSED TO STRUCTURE ABOVE CEILING CLOUDS. PAINT ALL EXPOSED STRUCTURE. MECHANICAL, ELECTRICAL, FIRE PROTECTION OR PLUMBING ELEMENTS. EXTEND PAINT FROM ADJACENT WALL TO 4'-0" BEYOND EDGE OF CEILING CLOUD.



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CONSTRUCTION DOCUMENTS

MARCH 2024

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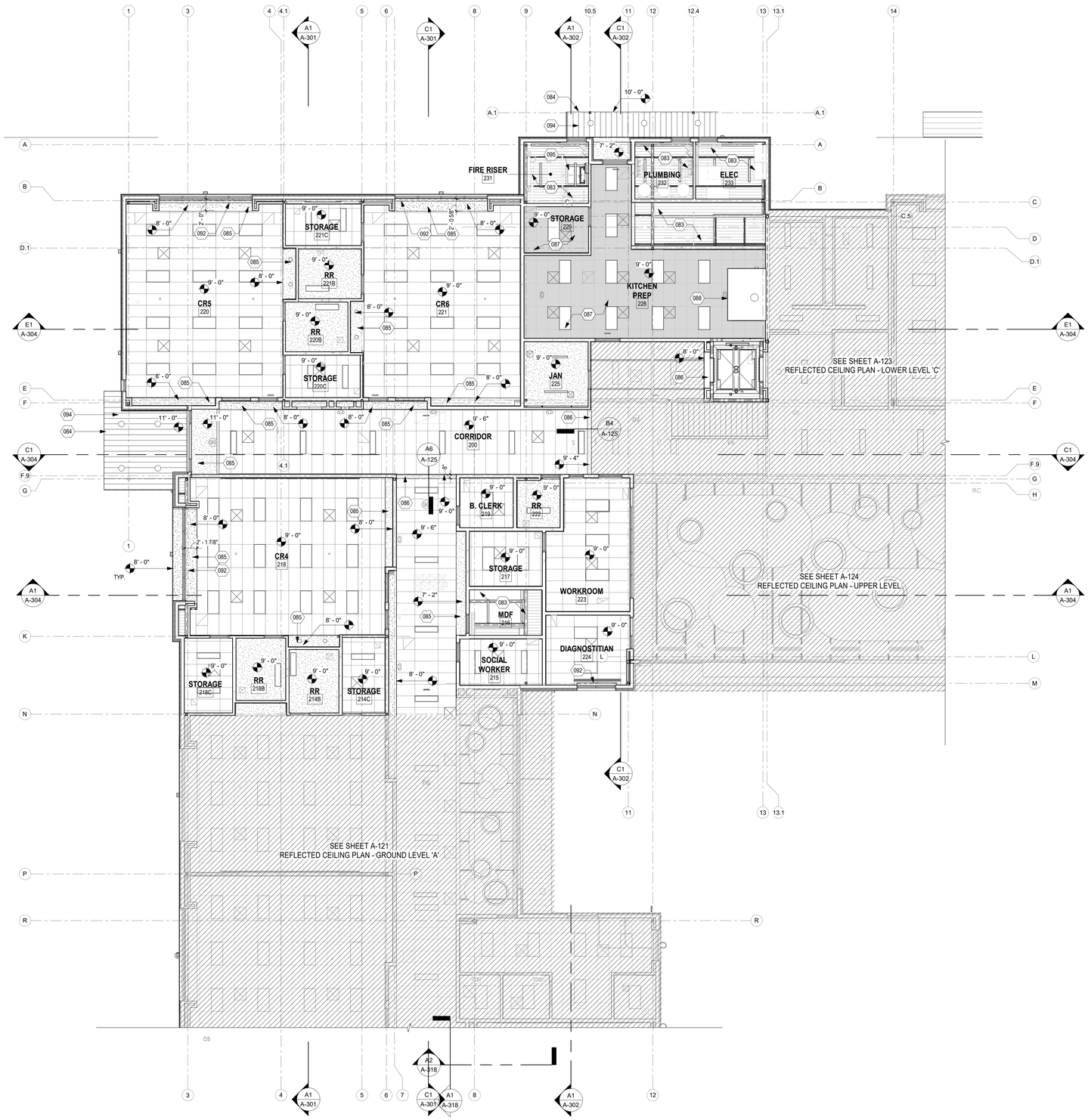
SHEET TITLE

REFLECTED CEILING PLAN - GROUND LEVEL 'A'

A-121

Farmington Preschool Academy



A1 RCP - GROUND LEVEL 'B'
1/8" = 1'-0"

GENERAL NOTES

A. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.

B. CONTROL DRYWALL TEXTURE OVER SPRAY AT ALL LOCATIONS OF EXPOSED CEILING. ENSURE NO OVER SPRAY ON STRUCTURE AND/OR BATT INSULATION.

C. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION WORK TO ACCOMPLISH CEILING HEIGHTS. NOTIFY ARCHITECTS OF ANY CONFLICTS PRIOR TO INSTALLATION.

D. EXACT LOCATION OF SPRINKLER HEADS AND ALL SPECIAL SYSTEMS EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT PRIOR TO SYSTEM INSTALLATION. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILE.

E. SEE ID SHEETS FOR WALL ACCENT PAINT COLORS.

F. ALL PAINT COLORS TO BE SELECTED BY ARCHITECT UNLESS NOTED OTHERWISE.

G. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH MECHANICAL AND PLUMBING.

H. ALL DIMENSIONS ARE TO FACE OF FINISH.

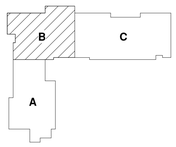
REFLECTED CEILING LEGEND

- 1 / A101 SIM — BUILDING /WALL SECTION
- SPOT ELEVATION
- GYPSUM BOARD CEILING, TAPE, TEXTURE AND PAINT.
- ACOUSTICAL TECTUM CEILING PANEL SYSTEM
- 2' X 4' ACOUSTIC, LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- 2' X 4' ACOUSTIC VINYL LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- SUPPLY AIR DIFFUSER. SEE MECHANICAL.
- RETURN AIR DIFFUSER. SEE MECHANICAL.
- LIGHT FIXTURES. NOT ALL TYPES SHOWN IN THIS LEGEND. SEE ELECTRICAL FOR COMPLETE FIXTURE SCHEDULE

NOTE: REFER ALSO TO ELECTRICAL AND MECHANICAL DRAWINGS FOR REFLECTED CEILING PLAN ITEMS NOT SHOWN OR NOTED ON ARCHITECTURAL REFLECTED CEILING PLANS

KEYNOTES

083 EXPOSED TO STRUCTURE. PAINT ALL STRUCTURAL, ELECTRICAL, MECHANICAL AND FIRE PROTECTION ITEMS, COLOR TO BE SELECTED BY ARCHITECT.
084 EXTERIOR CANOPY. SEE BUILDING AND WALL SECTIONS. SEE STRUCTURAL.
085 GYP BOARD SOFFIT. SEE DETAILS SHEET A-125.
086 GYP BOARD BULKHEAD. PAINT. SEE DETAILS SHEET A-125.
087 VINYL FACED ACOUSTIC CEILING TILE.
088 KITCHEN HOOD. SEE FOOD SERVICE DRAWINGS.
092 MANUAL ROLLER SHADE.
094 PREFINISHED METAL SOFFIT PANEL. SEE WALL SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
095 ROOF ACCESS LADDER AND HATCH. SEE ROOF DETAILS.



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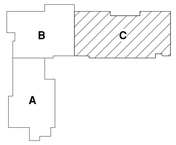
SHEET TITLE
REFLECTED CEILING PLAN - GROUND LEVEL 'B'

A-122

Farmington Preschool Academy



KEY PLAN N.T.S.

GENERAL NOTES

A. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.

B. CONTROL DRYWALL TEXTURE OVER SPRAY AT ALL LOCATIONS OF EXPOSED CEILING. ENSURE NO OVER SPRAY ON STRUCTURE AND/OR BATT INSULATION.

C. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION WORK TO ACCOMPLISH CEILING HEIGHTS. NOTIFY ARCHITECTS OF ANY CONFLICTS PRIOR TO INSTALLATION.

D. EXACT LOCATION OF SPRINKLER HEADS AND ALL SPECIAL SYSTEMS EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT PRIOR TO SYSTEM INSTALLATION. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILE.

E. SEE ID SHEETS FOR WALL ACCENT PAINT COLORS.

F. ALL PAINT COLORS TO BE SELECTED BY ARCHITECT UNLESS NOTED OTHERWISE.

G. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH MECHANICAL AND PLUMBING.

H. ALL DIMENSIONS ARE TO FACE OF FINISH.

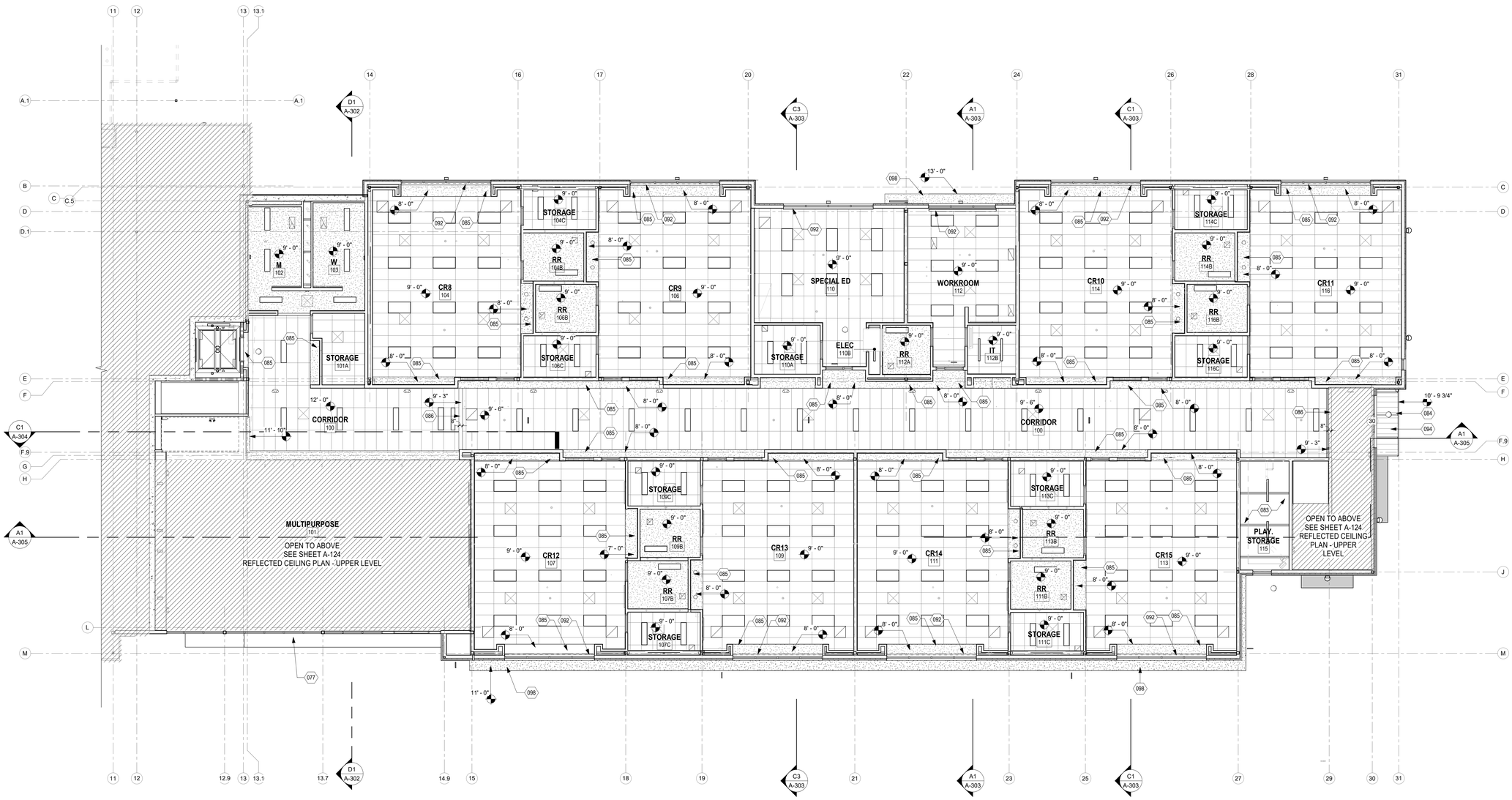
KEYNOTES

077 ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW FRAME PER MANUFACTURER'S RECOMMENDATIONS. SEE WALL SECTIONS.
083 EXPOSED TO STRUCTURE, PAINT ALL STRUCTURAL, ELECTRICAL, MECHANICAL AND FIRE PROTECTION ITEMS, COLOR TO BE SELECTED BY ARCHITECT.
084 EXTERIOR CANOPY. SEE BUILDING AND WALL SECTIONS. SEE STRUCTURAL.
085 GYP BOARD SOFFIT. SEE DETAILS SHEET A-125.
086 GYP BOARD BULKHEAD. PAINT. SEE DETAILS SHEET A-125.
092 MANUAL ROLLER SHADE.
094 PREFINISHED METAL SOFFIT PANEL. SEE WALL SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
098 STUCCO SYSTEM. SEE WALL SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.

REFLECTED CEILING LEGEND

- 1 / A101 SIM — BUILDING /WALL SECTION
- SPOT ELEVATION
- GYPSUM BOARD CEILING, TAPE, TEXTURE AND PAINT.
- ACOUSTICAL TECTUM CEILING PANEL SYSTEM
- 2' X 4' ACOUSTIC. LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- 2' X 4' ACOUSTIC VINYL LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- SUPPLY AIR DIFFUSER. SEE MECHANICAL.
- RETURN AIR DIFFUSER. SEE MECHANICAL.
- LIGHT FIXTURES. NOT ALL TYPES SHOWN IN THIS LEGEND. SEE ELECTRICAL FOR COMPLETE FIXTURE SCHEDULE

NOTE: REFER ALSO TO ELECTRICAL AND MECHANICAL DRAWINGS FOR REFLECTED CEILING PLAN ITEMS NOT SHOWN OR NOTED ON ARCHITECTURAL REFLECTED CEILING PLANS



A1 RCP - LOWER LEVEL 'C'
1/8" = 1'-0"

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. SHAH
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ARCHITECT

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CONSTRUCTION DOCUMENTS
MARCH 2024

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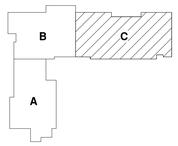
SHEET TITLE
REFLECTED CEILING PLAN - LOWER LEVEL 'C'

A-123

Farmington Preschool Academy



KEY PLAN

N.T.S.

GENERAL NOTES

A. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.

B. CONTROL DRYWALL TEXTURE OVER SPRAY AT ALL LOCATIONS OF EXPOSED CEILING. ENSURE NO OVER SPRAY ON STRUCTURE AND/OR BATT INSULATION.

C. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION WORK TO ACCOMPLISH CEILING HEIGHTS. NOTIFY ARCHITECTS OF ANY CONFLICTS PRIOR TO INSTALLATION.

D. EXACT LOCATION OF SPRINKLER HEADS AND ALL SPECIAL SYSTEMS EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT PRIOR TO SYSTEM INSTALLATION. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILE.

E. SEE ID SHEETS FOR WALL ACCENT PAINT COLORS.

F. ALL PAINT COLORS TO BE SELECTED BY ARCHITECT UNLESS NOTED OTHERWISE.

G. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH MECHANICAL AND PLUMBING.

H. ALL DIMENSIONS ARE TO FACE OF FINISH.

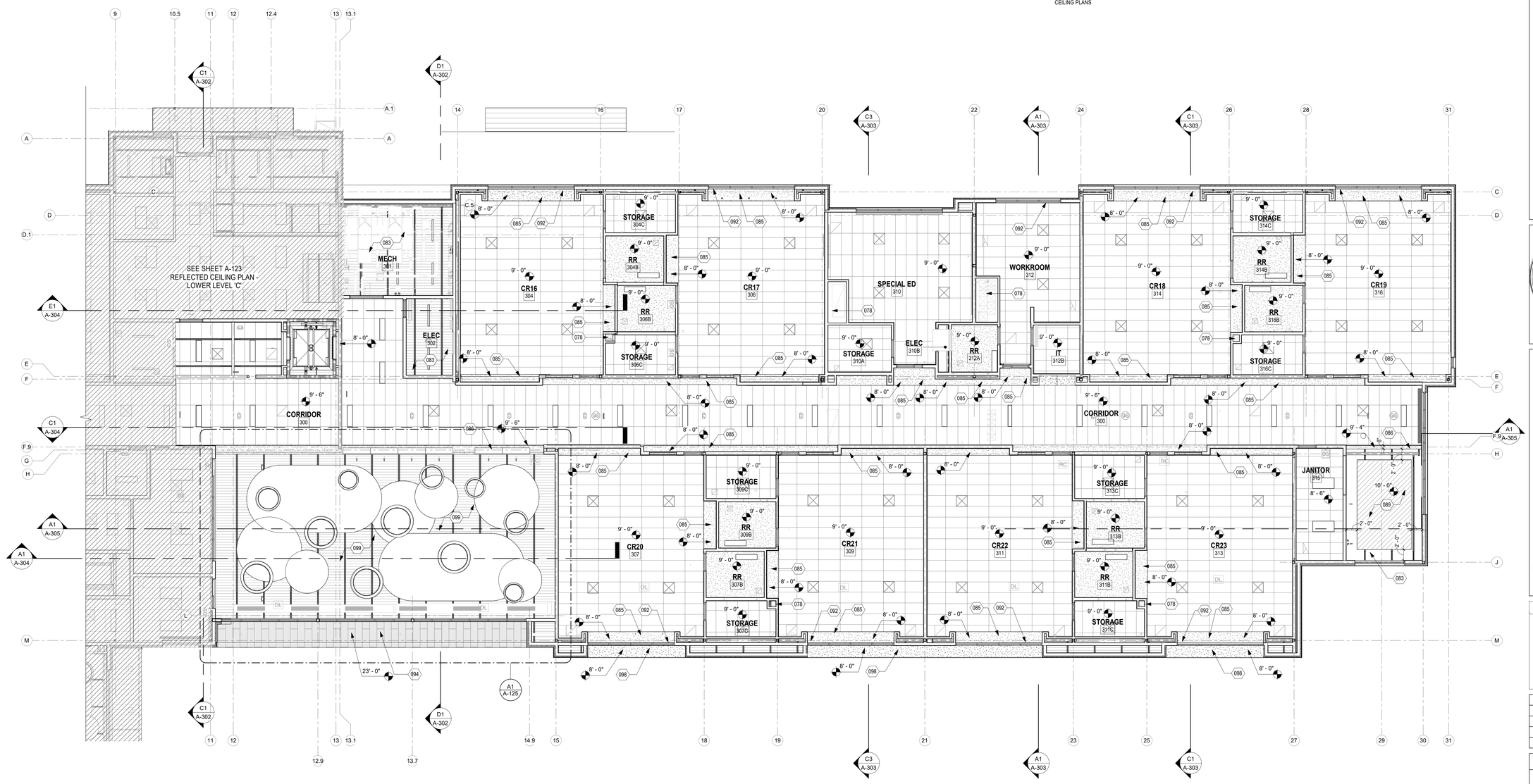
REFLECTED CEILING LEGEND

- 1 / A101 SIM — BUILDING /WALL SECTION
- SPOT ELEVATION
- GYPSUM BOARD CEILING, TAPE, TEXTURE AND PAINT.
- ACOUSTICAL TECTUM CEILING PANEL SYSTEM
- 2' X 4' ACOUSTIC. LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- 2' X 4' ACOUSTIC VINYL LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
- SUPPLY AIR DIFFUSER. SEE MECHANICAL.
- RETURN AIR DIFFUSER. SEE MECHANICAL.
- LIGHT FIXTURES. NOT ALL TYPES SHOWN IN THIS LEGEND. SEE ELECTRICAL FOR COMPLETE FIXTURE SCHEDULE

NOTE: REFER ALSO TO ELECTRICAL AND MECHANICAL DRAWINGS FOR REFLECTED CEILING PLAN ITEMS NOT SHOWN OR NOTED ON ARCHITECTURAL REFLECTED CEILING PLANS

KEYNOTES

078 CHASE FOR HVAC DUCT. COORDINATE CLEAR OPENING REQUIREMENTS WITH MECHANICAL.
083 EXPOSED TO STRUCTURE. PAINT ALL STRUCTURAL, ELECTRICAL, MECHANICAL AND FIRE PROTECTION ITEMS, COLOR TO BE SELECTED BY ARCHITECT.
085 GYP BOARD SOFFIT. SEE DETAILS SHEET A-125.
086 GYP BOARD BULKHEAD. PAINT. SEE DETAILS SHEET A-125.
089 SMOOTH SURFACE SUSPENDED ACOUSTIC CEILING PANEL.*
092 MANUAL ROLLER SHADE.
094 PREFINISHED METAL SOFFIT PANEL. SEE WALL SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
098 STUCCO SYSTEM. SEE WALL SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
099 EXPOSED TO STRUCTURE ABOVE CEILING CLOUDS. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, ELECTRICAL, FIRE PROTECTION OR PLUMBING ELEMENTS. EXTEND PAINT FROM ADJACENT WALL TO 4'-0" BEYOND EDGE OF CEILING CLOUD.



A1 RCP - UPPER LEVEL
1/8" = 1'-0"

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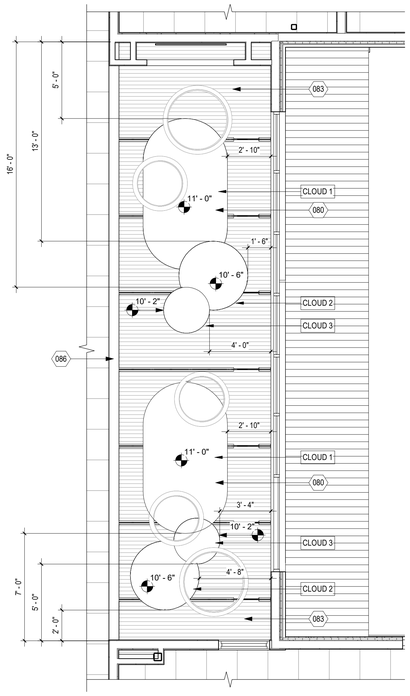
SHEET TITLE

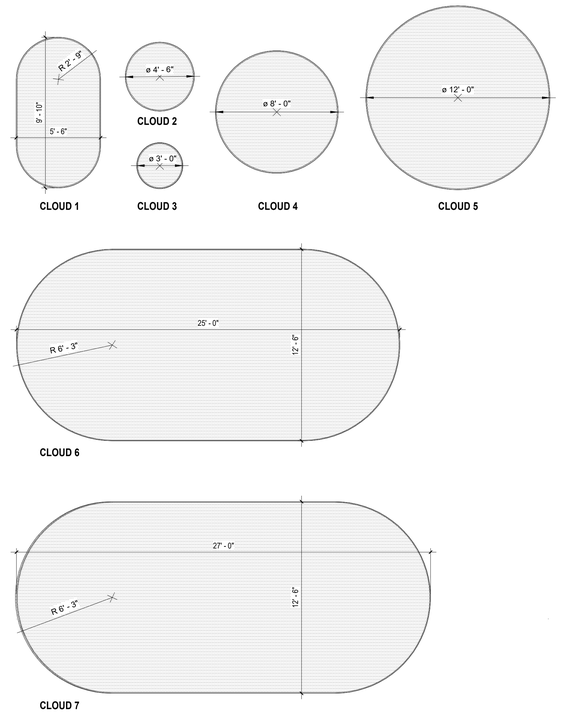
REFLECTED CEILING PLAN - UPPER LEVEL 'C'

A-124

Farmington Preschool Academy

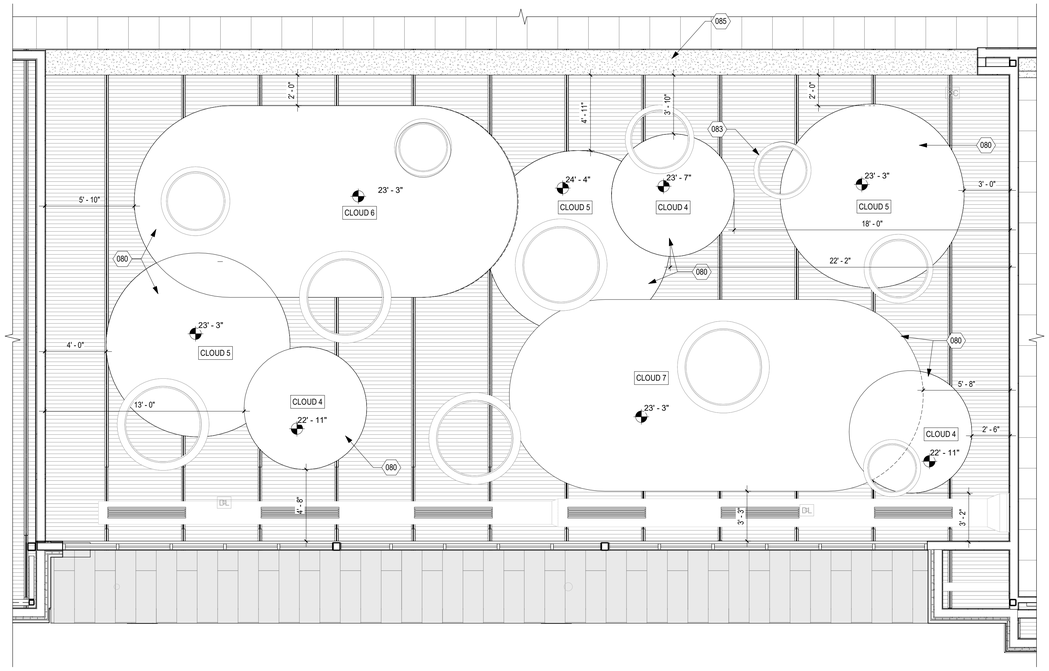


C1 CEILING CLOUD AREA 'A'
1/4" = 1'-0"



NOTE:
1. COLORS TO BE SELECTED BY ARCHITECT.
2. FURNISH "AXIOM" PERIMETER TRIM BY ARMSTRONG AROUND THE EDGES OF THE CLOUD.

C3 CEILING CLOUDS
1/4" = 1'-0"



A1 CEILING CLOUD AREA 'B'
1/4" = 1'-0"

KEYNOTES

080	TECTUM CEILING PANELS. FINISH EDGES WITH AXIOM PERMITER TRIM BY ARMSTRONG. COLORS TO BE SELECTED BY ARCHITECT. SEE A5/A-125 FOR CLOUD DIMENSIONS.
083	EXPOSED TO STRUCTURE. PAINT ALL STRUCTURAL, ELECTRICAL, MECHANICAL AND FIRE PROTECTION ITEMS, COLOR TO BE SELECTED BY ARCHITECT.
085	GYP BOARD SOFFIT. SEE DETAILS SHEET A-125.
086	GYP BOARD BULKHEAD. PAINT. SEE DETAILS SHEET A-125.

GENERAL NOTES

A. ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.

B. CONTROL DRYWALL TEXTURE OVER SPRAY AT ALL LOCATIONS OF EXPOSED CEILING. ENSURE NO OVER SPRAY ON STRUCTURE AND/OR BATT INSULATION.

C. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION WORK TO ACCOMPLISH CEILING HEIGHTS. NOTIFY ARCHITECTS OF ANY CONFLICTS PRIOR TO INSTALLATION.

D. EXACT LOCATION OF SPRINKLER HEADS AND ALL SPECIAL SYSTEMS EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT PRIOR TO SYSTEM INSTALLATION. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILE.

E. SEE ID SHEETS FOR WALL ACCENT PAINT COLORS.

F. ALL PAINT COLORS TO BE SELECTED BY ARCHITECT UNLESS NOTED OTHERWISE.

G. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH MECHANICAL AND PLUMBING.

H. ALL DIMENSIONS ARE TO FACE OF FINISH.

REFLECTED CEILING LEGEND

1 SIM / A101	BUILDING /WALL SECTION
	SPOT ELEVATION
	GYPSUM BOARD CEILING, TAPE, TEXTURE AND PAINT.
	ACOUSTICAL TECTUM CEILING PANEL SYSTEM
	2' X 4' ACOUSTIC. LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
	2' X 4' ACOUSTIC VINYL LAY-IN CEILING TILE. SEE SEISMIC BRACING DETAIL. TYPE B, UNLESS NOTED OTHERWISE
	SUPPLY AIR DIFFUSER. SEE MECHANICAL.
	RETURN AIR DIFFUSER. SEE MECHANICAL.
	LIGHT FIXTURES. NOT ALL TYPES SHOWN IN THIS LEGEND. SEE ELECTRICAL FOR COMPLETE FIXTURE SCHEDULE

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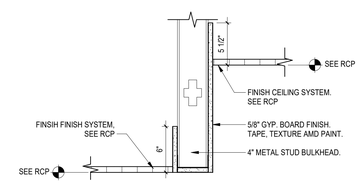
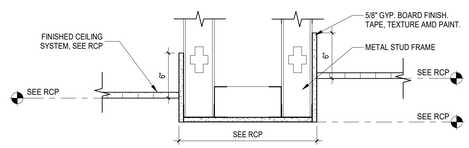
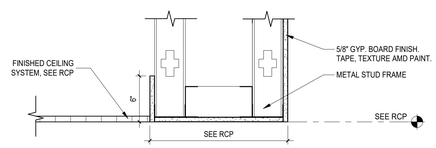


B4 GYPSUM BOARD BULKHEAD 'A'
1 1/2" = 1'-0"



B6 GYPSUM BOARD SOFFIT 'B'
1 1/2" = 1'-0"



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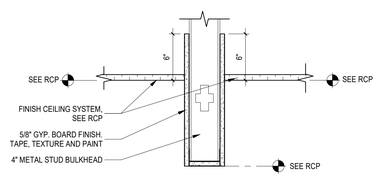

A6 GYPSUM BOARD BULKHEAD 'B'
1 1/2" = 1'-0"

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SHEET TITLE

REFLECTED CEILING PLAN - DETAILS

A-125

Farmington Preschool Academy

ROOF COMPOSITION LEGEND

(A) ROOF TYPE A - PVC MEMBRANE ROOFING SYSTEM
- INDUCTION WELDED MEMBRANE
- COVERBOARD
- RIGID INSULATION
- SLOPED METAL DECK

(B) ROOF TYPE B
- INDULCTION WELDED MEMBRANE
- COVERBOARD
- TAPERED RIGID INSULATION
- FLAT METAL DECK

KEYNOTES

125 PARAPET CAP. SEE ROOF DETAILS.
126 PREFINISHED LEADERHEAD AND DOWN SPOUT. TERMINATE AT SPLASH BLOCK. SEE ROOF DETAILS.
127 TAPERED INSULATION ROOF CRICKET. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
129 PRIMARY ROOF DRAIN. SEE ROOF AND PLUMBING DETAILS.
130 ROOF TOP MECHANICAL EQUIPMENT, SEE MECHANCIAL. COORDINATE ROOF PENETRATION WITH STRUCTRUAL REQUIREMENTS. FURNISH AND INSTALL CURBS PER MECHANCIAL DETAILS.
132 WALK PAD BY ROOFING MEMBRANE MANUFACTURER. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
133 ROOF CROSS-OVER LADDER SEE ROOF DETAILS.
134 ROOF DIVIDING WALL. SEE ROOF DETAILS.
137 ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. SEE BUILDING AND WALL SECTIONS
138 EXTEND EXTERIOR BUILDING FINISH PER ELEVATIONS OVER ROOF TO DISTANCE SHOWN. REFER TO PARAPET AND HIGHWALL FLASHING DETAILS.
140 OVERFLOW SCUPPER. SEE ROOF DETAILS.
141 ROOF HATCH. SEE ROOF DETAILS.
142 STUCCO BUMPOUT. SEE BUILDING AND WALL SECTION.
143 PREFINISHED GUTTER AND DOWNSPOUT. SEE ROOF DETAILS.
144 CANOPY. SEE WALL SECTION AND STRUCTURAL.

GENERAL NOTES

A. THE ROOFING SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR A 20 YEAR WARRANTY. INSTALL PER MOST STRINGENT REQUIREMENT BETWEEN PLANS, SPECIFICATIONS, MANUFACTURER'S REQUIREMENTS, AND IN ACCORDANCE WITH THE NRCA ROOFING & WATERPROOFING MANUAL, CURRENT EDITION.

B. ROOFING AND FLASHING SYSTEM REQUIRED TO CONFORM TO ES-1 WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS. ALL ROOFING SHALL BE ATTACHED TO THE BUILDING IN ACCORDANCE WITH FM 1-75 WIND UPLIFT FASTENING PATTERN AND ASCE 7 REQUIREMENTS.

C. FABRICATE AND INSTALL ALL METAL FLASHING AND ACCESSORIES PER RECOMMENDATIONS OF SMACNA ARCHITECTURAL SHEET METAL MANUAL CURRENT EDITION, AND NRCA ROOFING AND WATERPROOFING MANUAL CURRENT EDITION.

D. PROVIDE SHOP DRAWINGS FOR ALL ROOF ACCESSORIES, SHEET METAL, TAPERED INSULATION LAYOUT. ETC

E. PROVIDE CRICKETS ON THE UPHILL SIDE OF ALL EQUIPMENT, OPENINGS, CURBS, ETC. GREATER THAN 12" IN WIDTH.

F. SLOPE ALL CRICKETS 1/4" MINIMUM GREATER THAN THE SLOPE OF THE DECK, WITH A MINIMUM 3 TO 1 LENGTH TO WIDTH RATIO. MAINTAIN POSITIVE DRAINAGE UNLESS NOTED OTHERWISE.

G. PRE-DRILL ALL METAL FLASHING / COUNTER FLASHING MATERIAL PRIOR TO INSTALLING FASTENERS.

H. ALL PLUMBING VENTS MUST MAINTAIN AN 12" MINIMUM DISTANCE ABOVE ROOF. TYPICAL.

I. PROVIDE A MINIMUM 12" HIGH VERTICAL DISTANCE OR GREATER BETWEEN TOP OF ROOFING FIELD MEMBRANES AND TERMINATION OF ALL FLASHINGS / COUNTER FLASHINGS AND FLASHING MEMBRANES. SEE DETAILS AND ROOFING MANUFACTURERS REQUIREMENTS.

J. PRIME AND PAINT ALL EXPOSED FERROUS METAL UNLESS OTHERWISE NOTED.

K. LOCATIONS OF ROOF TOP EQUIPMENT, DUCTWORK, ROOF PENETRATIONS, FLASHINGS, CURBS, ETC. THAT ARE INDICATED ON THE ROOF PLAN DRAWINGS NEED TO BE COORDINATED IN THE FIELD.

L. IMMEDIATELY NOTIFY ARCHITECT OF ANY CONFLICT BETWEEN ROOFING MANUFACTURERS RECOMMENDATION FOR ANY GIVEN CONDITION AND ARCHITECT'S DETAILS.

M. SLOPE DIRECTION INDICATED BY ARROW ON ROOF PLAN. MAINTAIN DRAINAGE AND SLOPES LISTED.

N. EXTEND GAS LINES, CONDUITS, VENTS ETC. PENETRATING THRU ROOF PER ROOFING DETAILS. SLEEVE WIRE, FLEX LINES AND CABLE PENETRATIONS THRU ROOF WITH GOOSE NECK PIPE OR CONDUIT.

O. FURNISH AND INSTALL TREATED WOOD BLOCKING AT ROOF MEMBRANE TERMINATIONS FOR TOP OF WALLS, STEP DOWNS, AND EXPANSION JOINTS.

P. FURNISH AND INSTALL INSULATION AT ALL MECHANICAL CURBS IF NOT PROVIDED BY MANUFACTURER.

Q. TURN FLASHING 90 DEGREES VERTICALLY INTO FASCIA WITH MITERED CORNER AT ALL EXPOSED FLASHING CORNERS.

R. PRIOR TO INSTALLATION OF INTERIOR DRYWALL FINISH CONTRACTOR SHALL TEST ROOF DRAINS FOR LEAKS AS FOLLOWS:
a. FIRST FILL DRAIN BOWL ONLY TO CHECK PLUMBING SEAL
b. THEN PLUG ROOF DRAIN AND FLOOD AREA OF ROOF AROUND DRAIN WITH 2" OF WATER
c. TEST ROOF DRAIN CONNECTION TO VERTICAL AND HORIZONTAL PLUMBING LEADERS. SEAL ALL LEAK AREAS
d. CHECK ROOFING SECUREMENT TO DRAIN
e. INSTALL RUBBERIZED BOOT AROUND CONNECTIONS OF ROOF DRAIN TO VERTICAL LEADER. CLAMP TIGHTLY TO PROVIDE SUPPORT AND WEATHER TIGHT SEAL.

S. THE ROOFING CONTRACTOR SHALL PROVIDE FASTENERS AS REQUIRED FOR CORROSIVE AGENTS ADDED TO TREATED WOOD NAILERS AND AS RECOMMENDED BY THE ROOFING MANUFACTURER REQUIRED FOR THE WARRANTY.

T. FURNISH AND INSTALL MANUFACTURERS WALK PAD. INSTALL AT THE FOLLOWING LOCATIONS :
- AT ALL POINTS OF ROOF LANDING AT ACCESS LADDERS, DOORWAYS, HATCHES ETC.
- ALONG DIRECT PATH TO ROOF TOP UNITS FROM POINTS OF LANDING.
- TWO ROWS OF WALK PAD AT ALL POINTS OF LANDING ONTO THE ROOF AND WORKING SIDES MECHANICAL UNITS.
- LOCATIONS SHOWN ON DRAWINGS

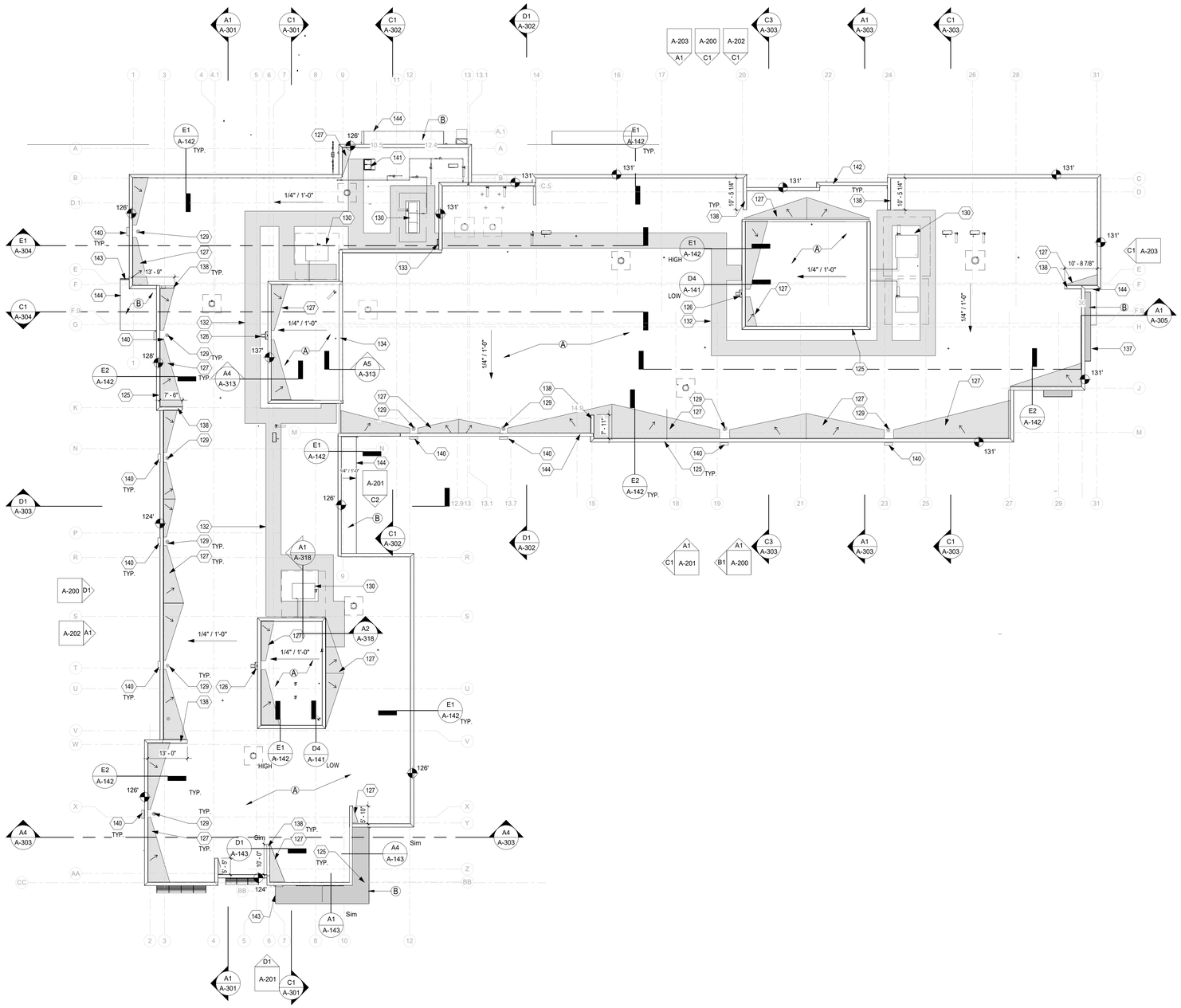
DO NOT COVER ROOFING MEMBRANE SEAMS WITH WALK PAD. PROVIDE FOR A GAP OVER SEAM SPACED AS RECOMMENDED BY MANUFACTURER BUT NOT LESS THAN 8". MAXIMUM LENGTH OF ANY SINGLE RUN OF WALK PAD TO BE NO MORE THAN 10'-0", PROVIDE 3" GAP BETWEEN ROWS OF WALK PADS FOR POSITIVE DRAINAGE.

U. COORDINATE ALL ROOF PENETRATIONS BETWEEN ARCHITECTURAL, PLUMBING, AND MECHANICAL WORK. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING WORK.

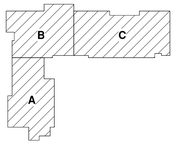
V. PAINT ALL EXPOSED DUCTS, ELECTRICAL CONDUITS, GAS LINES ETC. RUNNING VERTICAL ON WALLS AND HORIZONTALLY ON ROOF. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING. PAINT COLOR TO BE SELECTED BY ARCHITECT.

X. FURNISH AND INSTALL PRECAST CONCRETE SPLASHBLOCK AT TERMINATION OF ALL DOWNSPOUTS AND OR SCUPPER OVERFLOWS THAT DO NOT TERMINATE INTO CATCHBASINS. PROVIDE AT BOTH 'AT GRADE' TERMINATIONS, AND ON DOWNSPOUTS & SCUPPERS THAT TERMINATE ONTO A LOWER ROOF.

Y. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH THE SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH THE ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITY.



A1 ROOF PLAN
1/16" = 1'-0"



KEY PLAN N.T.S.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED ARCHITECT
ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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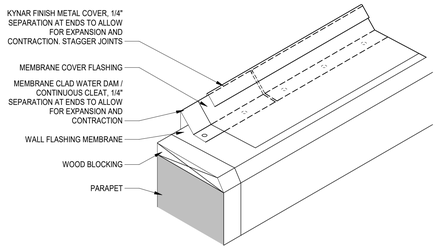
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

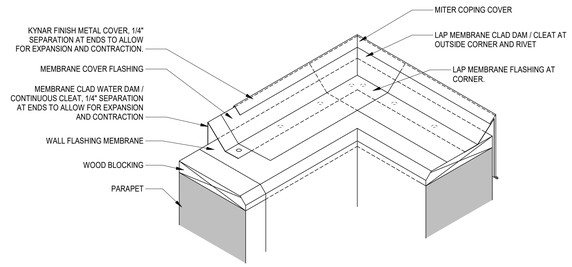
SHEET TITLE
ROOF PLAN

A-130

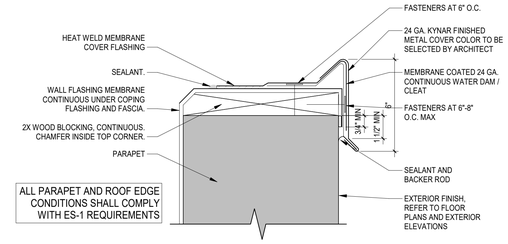
Farmington Preschool Academy



E1 COPING CAP BUTT JOINT
1 1/2" = 1'-0"

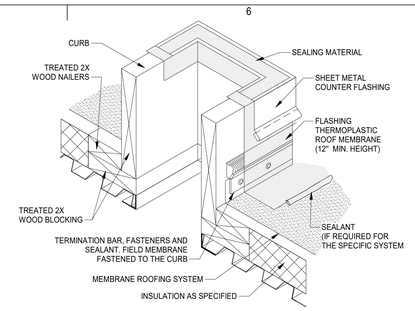


E2 COPING CAP CORNER
1 1/2" = 1'-0"

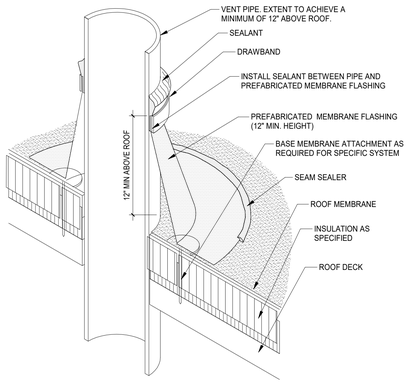


ALL PARAPET AND ROOF EDGE CONDITIONS SHALL COMPLY WITH ES-1 REQUIREMENTS

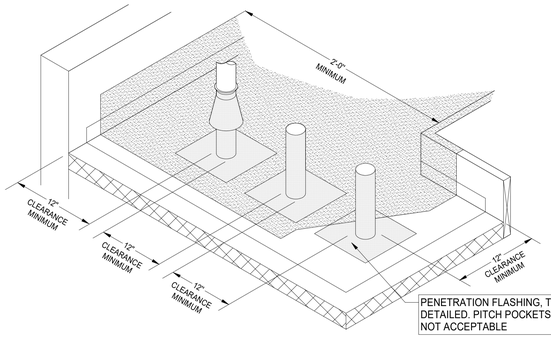
E4 METAL PARAPET COPING CAP
3" = 1'-0"



E6 ROOF EQUIPMENT CURB
1" = 1'-0"

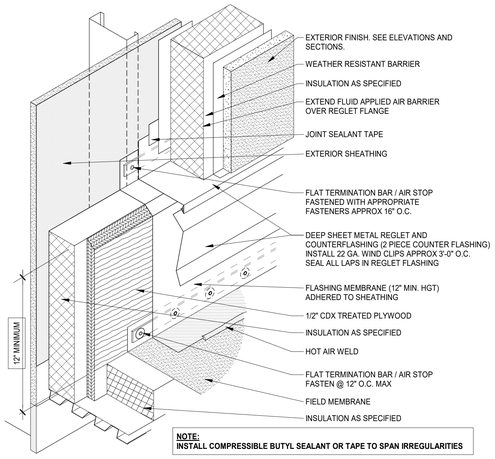


D1 VENT PIE FLASHING
1" = 1'-0"



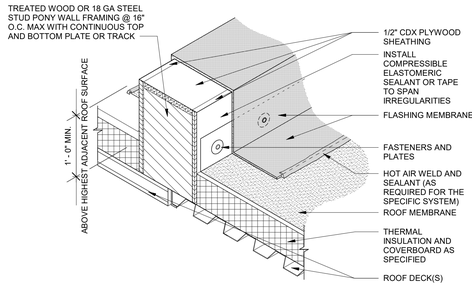
PENETRATION FLASHING, TYP. AS DETAILED. PITCH POCKETS ARE NOT ACCEPTABLE

D2 PENETRATION SPACING
1" = 1'-0"

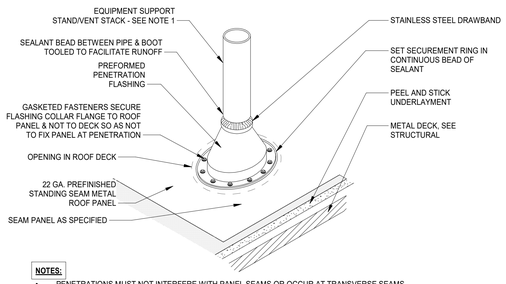


NOTE:
INSTALL COMPRESSIBLE BUTYL SEALANT OR TAPE TO SPAN IRREGULARITIES

D4 HIGH WALL FLASHING DETAIL
3/4" = 1'-0"

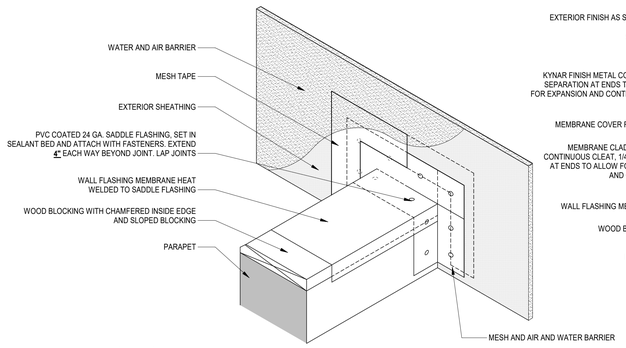


D5 DIVING WALL PARAPET FLASHING
1" = 1'-0"

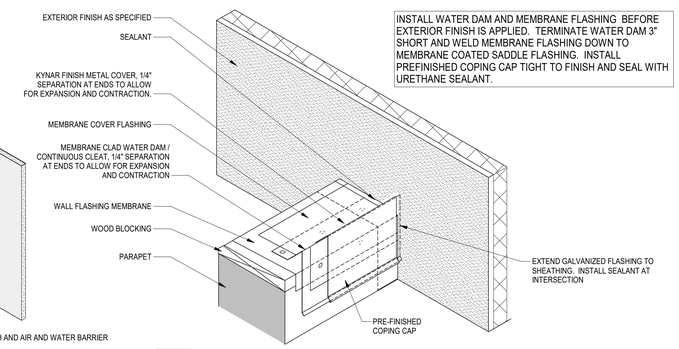


NOTES:
- PENETRATIONS MUST NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
- CUT HOLE IN ROOF DECK TO ALLOW FOR MOVEMENT.
- VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHIN.
- FOR HOT PIPES, SPECIFIC HIGH-TEMPERATURE BOOTS SHALL BE USED.
- ALL PIPES SHOULD USE HEAVY GAUGE PIPING AND BE BRACED TO STRUCTURE BELOW.

B1 PIPE VENT @ METAL ROOF
1" = 1'-0"



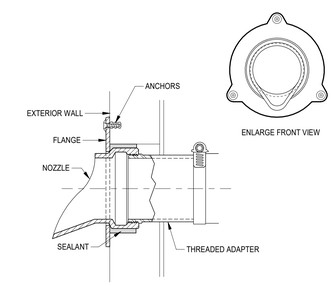
STEP 1



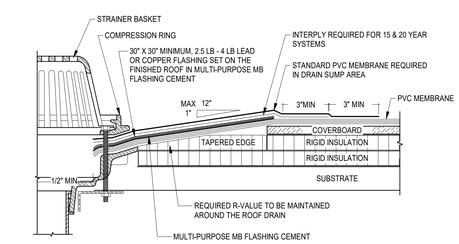
INSTALL WATER DAM AND MEMBRANE FLASHING BEFORE EXTERIOR FINISH IS APPLIED. TERMINATE WATER DAM 3" SHORT AND WELD MEMBRANE FLASHING DOWN TO MEMBRANE COATED SADDLE FLASHING. INSTALL PREFINISHED COPING CAP TIGHT TO FINISH AND SEAL WITH URETHANE SEALANT.

STEP 2

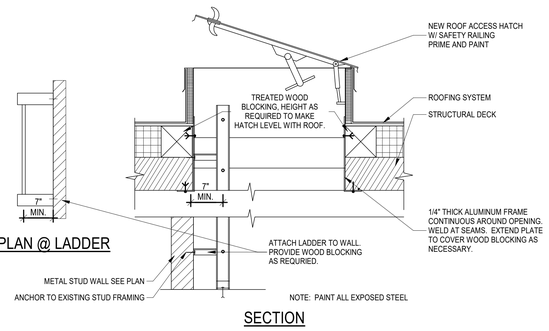
B2 COPING CAP WALL ABUTEMENT1
1 1/2" = 1'-0"



B6 OVERFLOW DOWNSPROUT NOZZLE
1" = 1'-0"



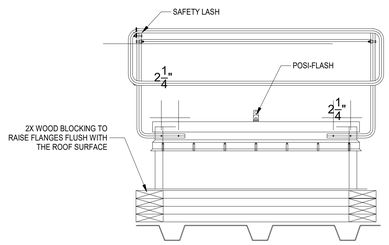
A1 ROOF DRAIN
3" = 1'-0"



TYP. PLAN @ LADDER

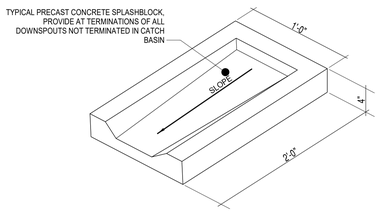
SECTION

A2 ROOF HATCH AND LADDER
1 1/2" = 1'-0"



BASIS OF DESIGN: ROOF HATCH FALL PROTECTION SAFETY RAIL BY SAFEPRO L.P. OR APPROVED EQUAL.

A5 ROOF HATCH SAFETY RAILING
1 1/2" = 1'-0"



A6 SPLASH BLOCK
3/4" = 1'-0"

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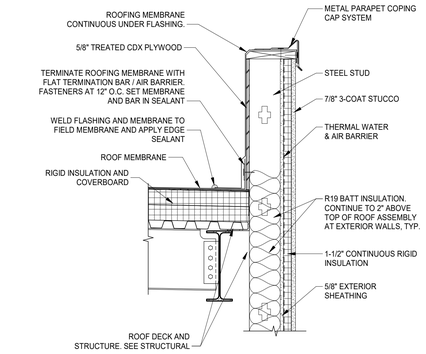
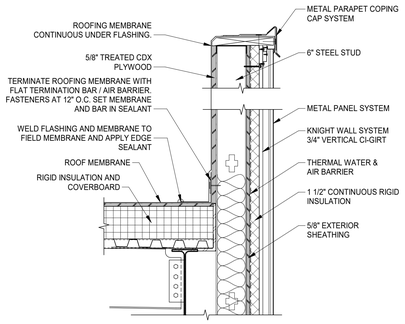
ROOF DETAILS

A-141

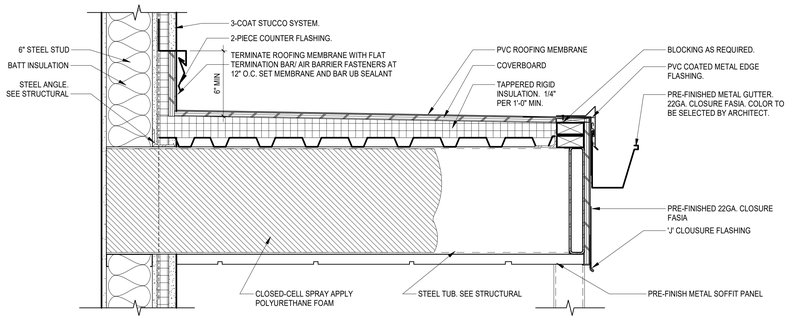
Farmington Preschool Academy



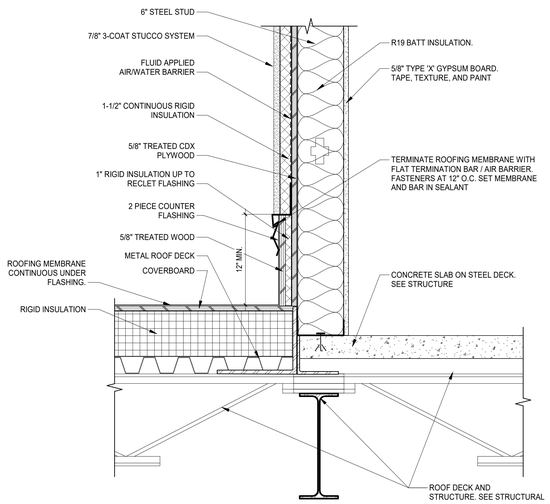
E1 STUCCO PARAPET
1" = 1'-0"



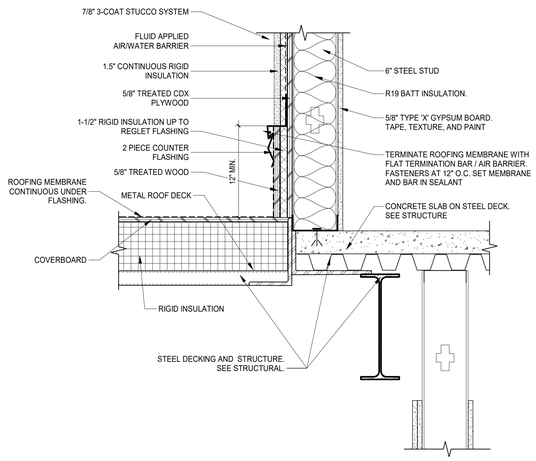
E2 METAL PANEL PARAPET
1" = 1'-0"



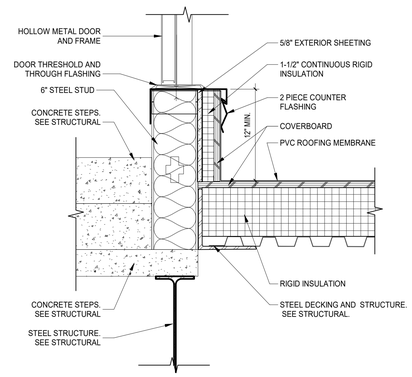
E4 NORTH ENTRY CANOPY
1 1/2" = 1'-0"



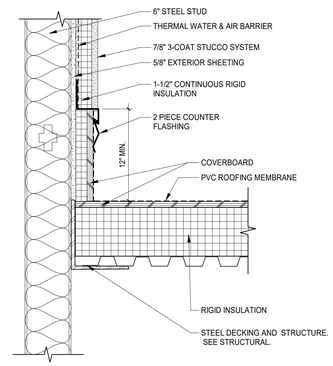
C1 EXTERIOR WALL @ PENTHOUSE DETAIL
1 1/2" = 1'-0"



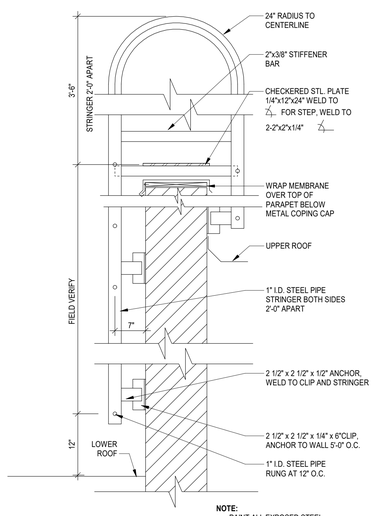
C3 EXTERIOR WALL @ PENTHOUSE DETAIL 2
1 1/2" = 1'-0"



C4 WALL TO ROOF DOOR TRANSITION
1 1/2" = 1'-0"

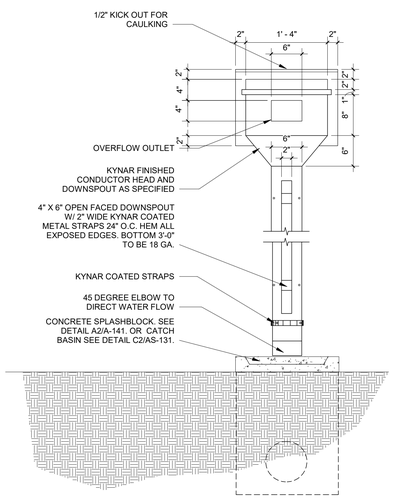


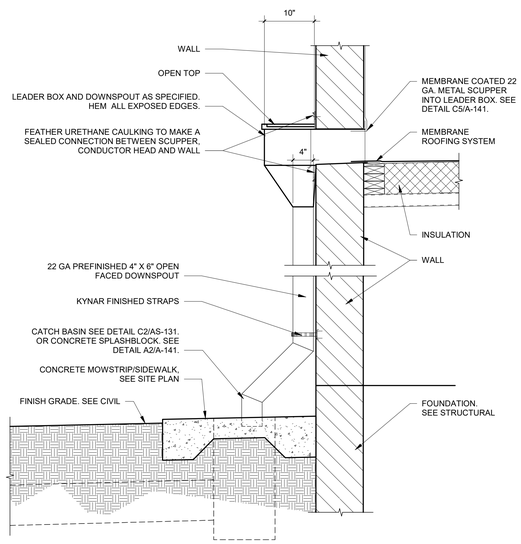
C6 WALL TO ROOF TRANSITION
1 1/2" = 1'-0"



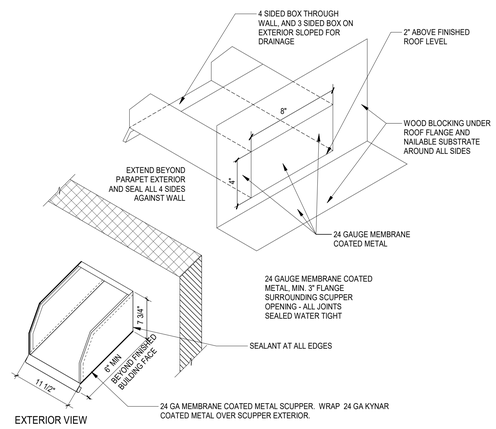
NOTE:
- PAINT ALL EXPOSED STEEL.
- GRIND ALL WELDS AND SHARP EDGES.

A1 ROOF LADDER
1" = 1'-0"





A2 LEADERHEAD & DOWNSPOUT DETAIL
1" = 1'-0"



A5 OVERFLOW SCUPPER
1" = 1'-0"

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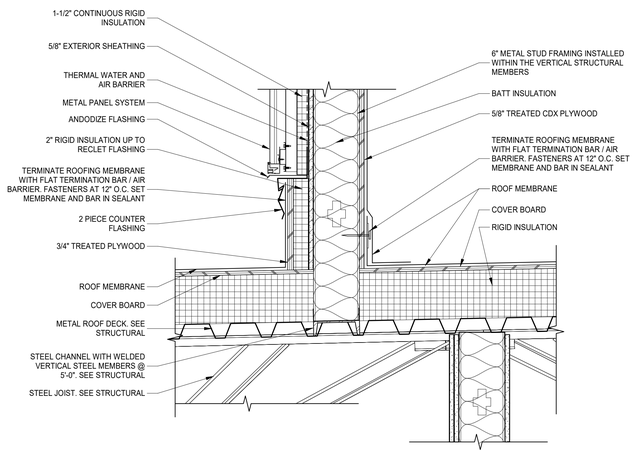
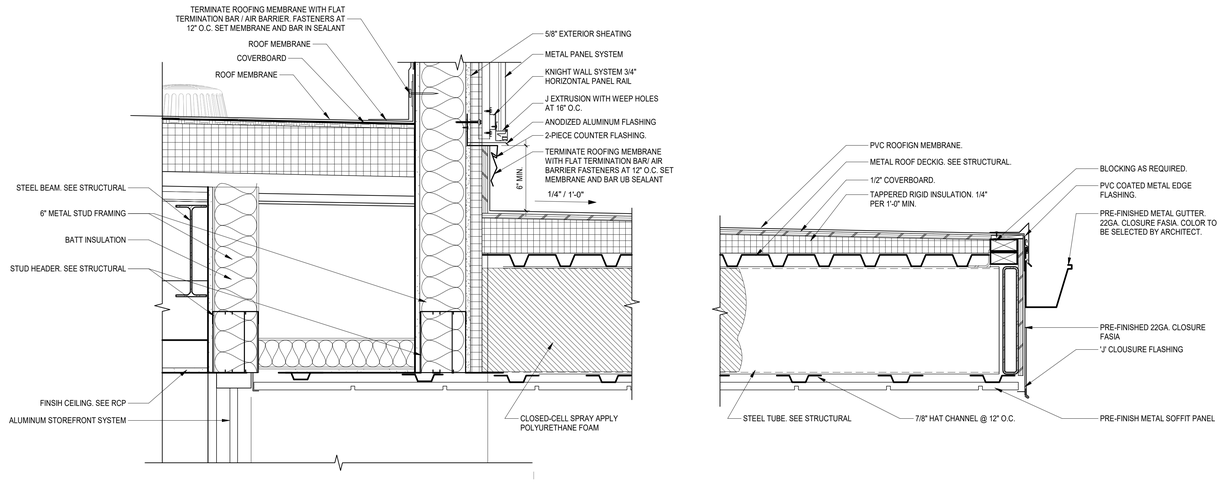
ROOF DETAILS

A-142

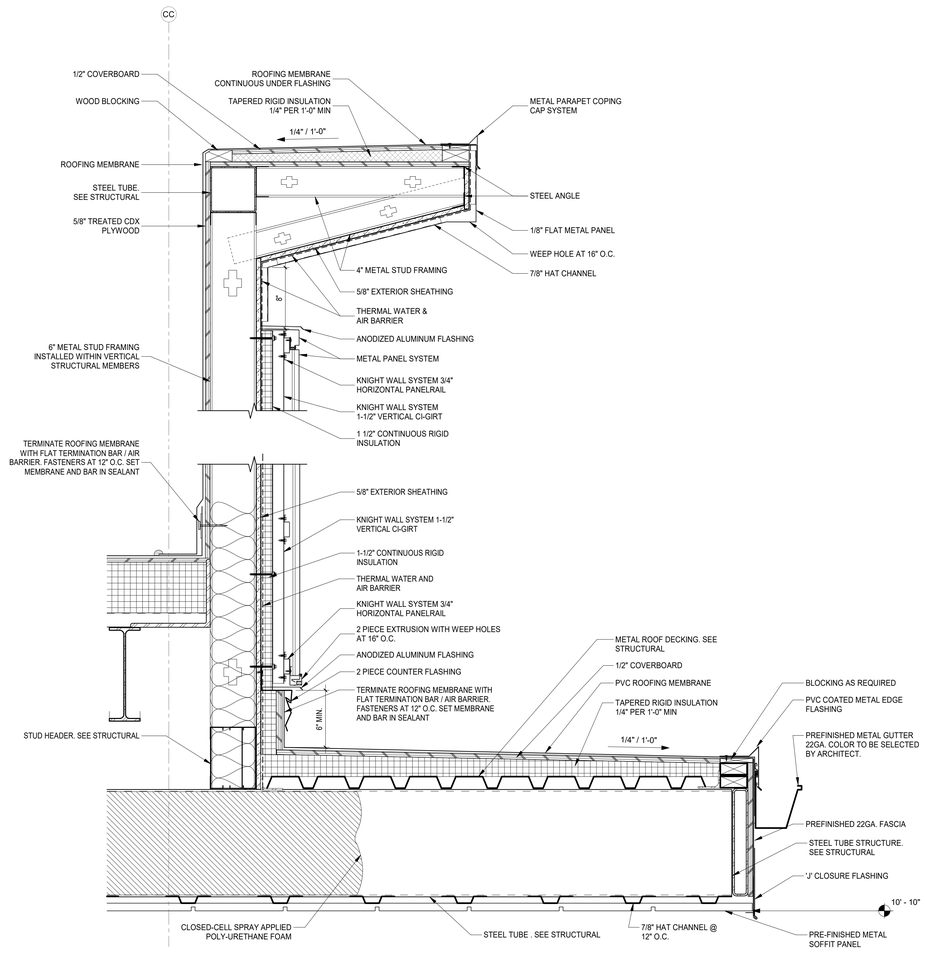
Farmington Preschool Academy



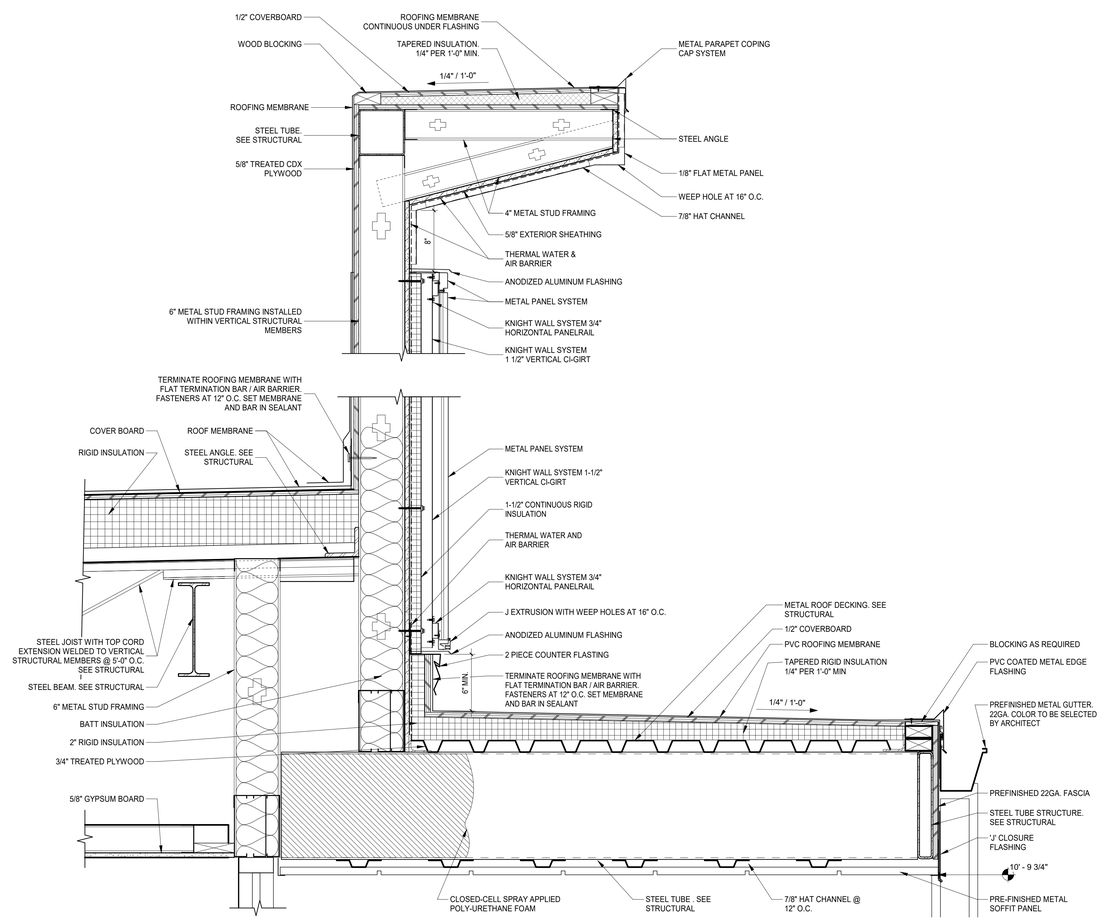
D1 MAIN ENTRANCE PARAPET TO ROOF - WEST
1 1/2" = 1'-0"



D3 WEST ENTRY CANOPY
1 1/2" = 1'-0"



A1 MAIN ENTRANCE CANOPY AND PARAPET - SOUTH
1 1/2" = 1'-0"



A4 MAIN ENTRANCE CANOPY AND PARAPET - EAST
1 1/2" = 1'-0"

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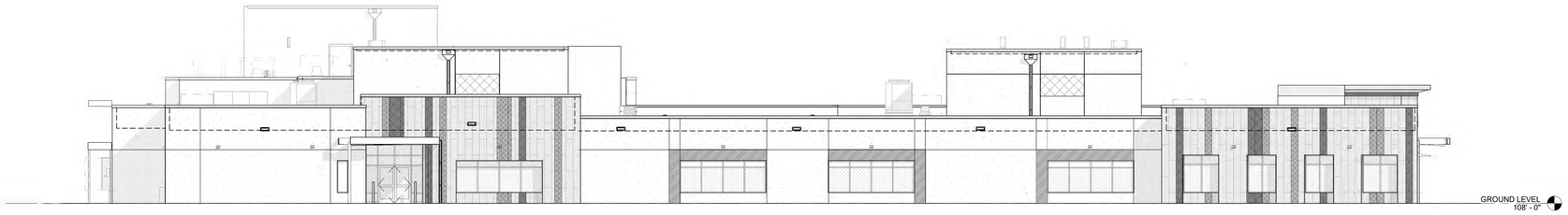
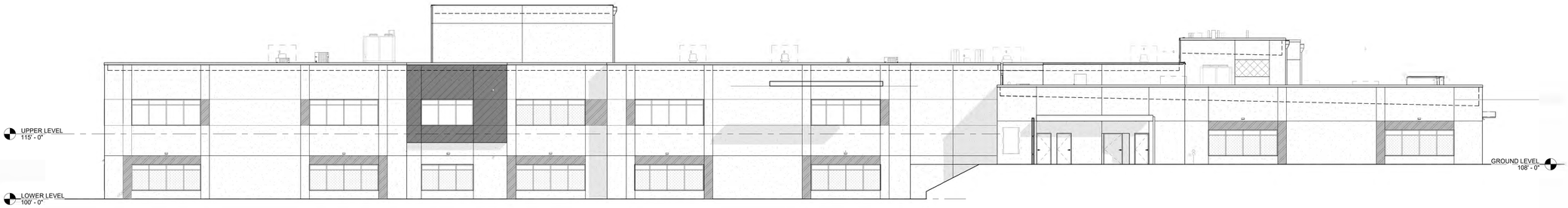
CANOPY DETAILS

A-143

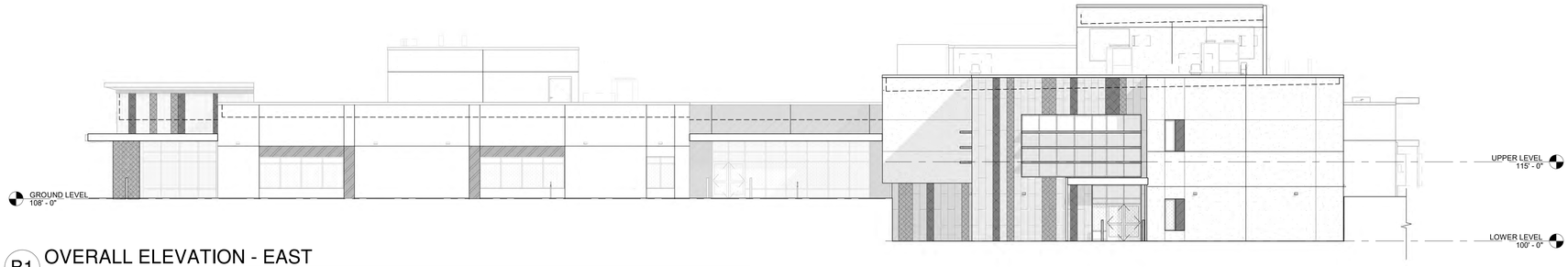
Farmington Preschool Academy



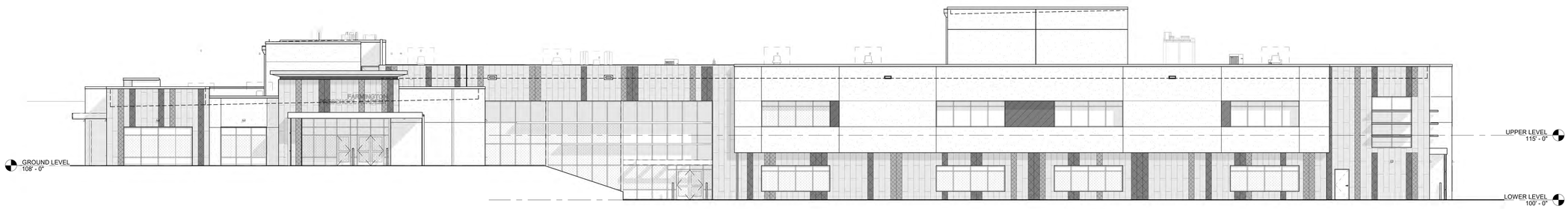
D1 OVERALL ELEVATION - WEST
3/32" = 1'-0"



C1 OVERALL ELEVATION - NORTH
3/32" = 1'-0"



B1 OVERALL ELEVATION - EAST
3/32" = 1'-0"



A1 OVERALL ELEVATION - SOUTH
3/32" = 1'-0"

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED ARCHITECT

ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

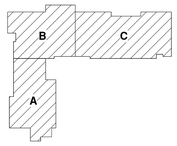
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE

OVERALL BUILDING ELEVATIONS

A-200

Farmington Preschool Academy



KEY PLAN

N.T.S.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

EXTERIOR FINISH LEGEND

- 3 COAT STUCCO SYSTEM COLOR 1 WITH ANTI-GRAFFITI COATING
- 3 COAT STUCCO SYSTEM COLOR 2 WITH ANTI-GRAFFITI COATING
- 3 COAT STUCCO SYSTEM COLOR 3 WITH ANTI-GRAFFITI COATING
- PREFINISHED METAL PANEL SYSTEM
- PREFINISHED METAL PANEL SYSTEM
- EXPOSED CONCRETE

GENERAL NOTES

A. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL SIMILAR MATERIALS.

B. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

C. BEARING / T.O. STUD ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS.

D. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

E. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

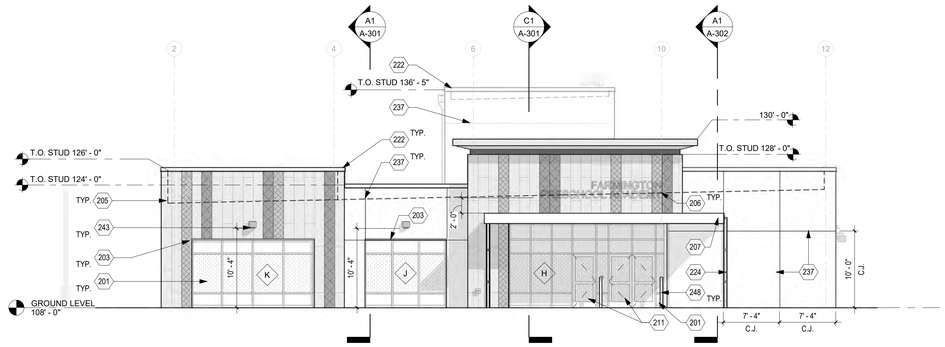
F. FOR INTERIOR INFORMATION IN SPACES. SEE ENLARGED PLANS, ELEVATIONS AND ID SHEETS.

G. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHEETS FOR INFORMATION.

H. FINISH AND INSTALL ANTI-GRAFFITI COATING AT ALL EXTERIOR STUCCO FINISH.

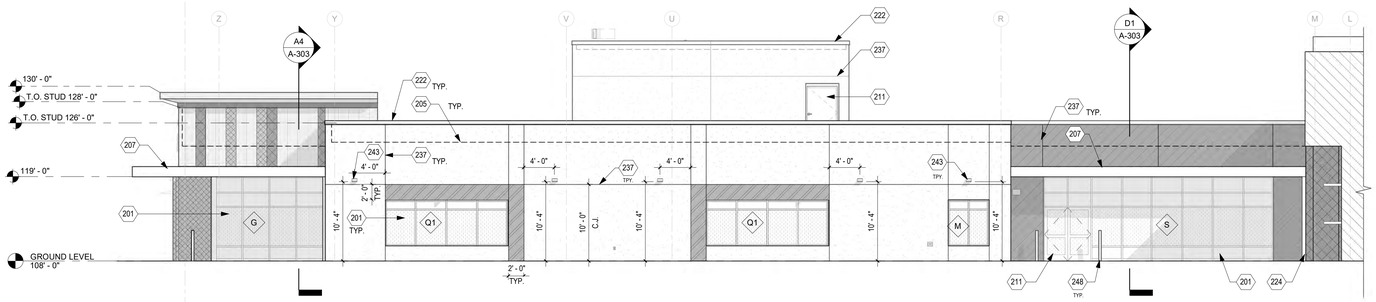
KEYNOTES

201	ALUMINUM STOREFRONT ASSEMBLY. SEE FLOOR PLAN, AND DOOR SCHEDULE OR WINDOW SCHEDULE.
202	ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW FRAME PER MANUFACTURER'S RECOMMENDATIONS. SEE WALL SECTIONS.
203	ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW LINTEL. SEE WALL SECTIONS.
205	DASHED LINE INDICATES PARAPET AND ROOF LINE.
206	BUILDING SIGNAGE. 12" HIGH PRE-FINISHED ALUMINUM LETTERS. FINAL TEXT TO BE APPROVED BY ARCHITECT AND OWNER. BLIND STUD MOUNT TO SUBSTRATE OR SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.
207	CANOPY. SEE WALL SECTIONS, ROOF PLAN AND STRUCTURAL.
211	DOOR AND FRAME. SEE DOOR SCHEDULE.
222	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
224	METAL GUTTER AND DOWNSPOUT. SEE ROOF DETAILS AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
237	STUCCO CONTROL JOINT. SEE MISCELLANEOUS DETAILS.
243	LIGHT FIXTURE. SEE ELECTRICAL.
248	POST DOOR STOP. SEE LANDSCAPING DETAILS.
249	OVERFLOW SCUPPER. SEE ROOF DETAILS.
250	OVERFLOW SCUPPER AND DOWNSPOUT. SEE ROOF DETAILS.



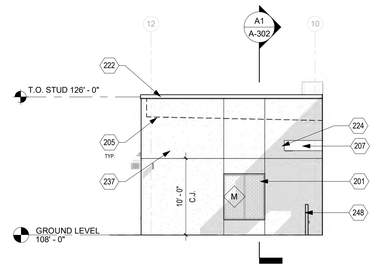
D1 ELEVATION - SOUTH 'A'

1/8" = 1'-0"



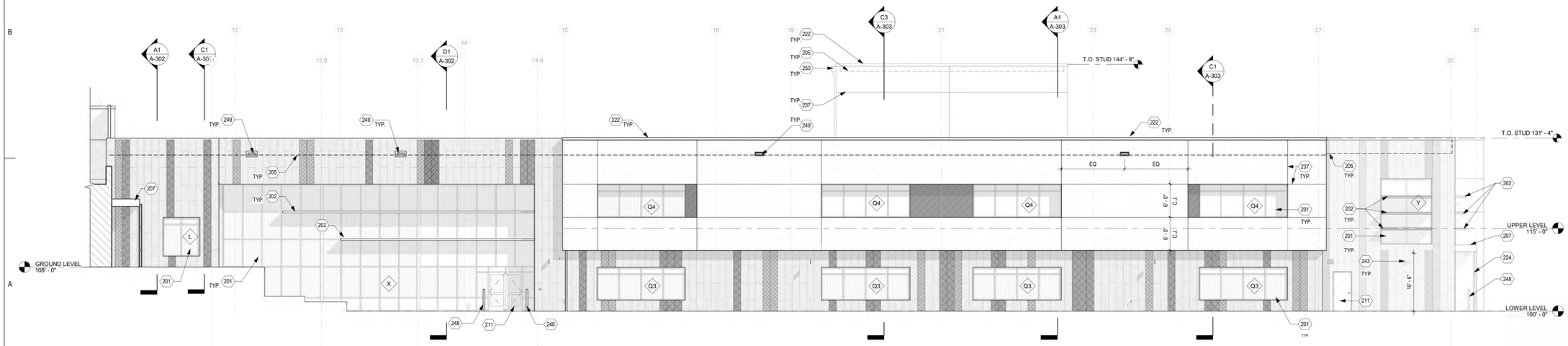
C1 ELEVATION - EAST 'A'

1/8" = 1'-0"



C2 NORTH ELEVATION - 'B'

1/8" = 1'-0"



A1 ELEVATION - SOUTH 'B'

1/8" = 1'-0"

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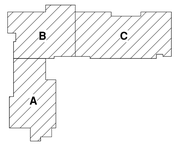
SHEET TITLE

BUILDING ELEVATIONS

A-201

Farmington Preschool Academy



KEY PLAN

N.T.S.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

EXTERIOR FINISH LEGEND

- 3 COAT STUCCO SYSTEM COLOR 1 WITH ANTI-GRAFFITI COATING
- 3 COAT STUCCO SYSTEM COLOR 2 WITH ANTI-GRAFFITI COATING
- 3 COAT STUCCO SYSTEM COLOR 3 WITH ANTI-GRAFFITI COATING
- PREFINISHED METAL PANEL SYSTEM
- PREFINISHED METAL PANEL SYSTEM
- EXPOSED CONCRETE

GENERAL NOTES

A. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL SIMILAR MATERIALS.

B. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

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D. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

E. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

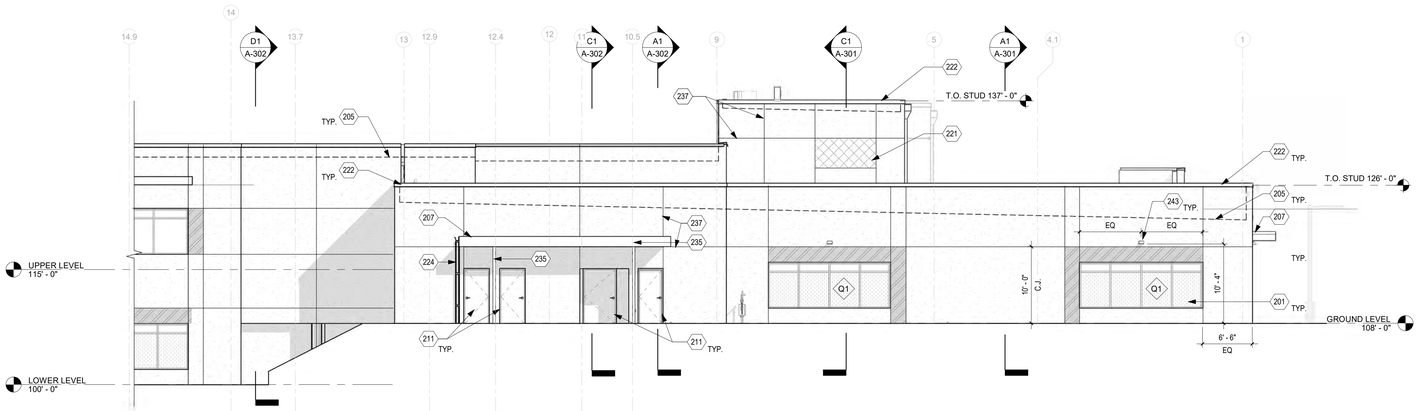
F. FOR INTERIOR INFORMATION IN SPACES. SEE ENLARGED PLANS, ELEVATIONS AND ID SHEETS.

G. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHEETS FOR INFORMATION.

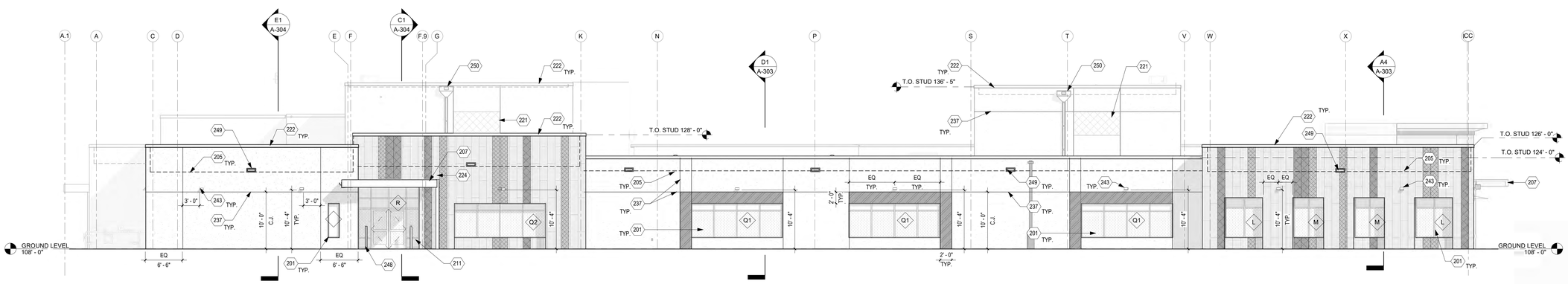
H. FINISH AND INSTALL ANTI-GRAFFITI COATING AT ALL EXTERIOR STUCCO FINISH.

KEYNOTES

201	ALUMINUM STOREFRONT ASSEMBLY. SEE FLOOR PLAN, AND DOOR SCHEDULE OR WINDOW SCHEDULE.
205	DASHED LINE INDICATES PARAPET AND ROOF LINE.
207	CANOPY. SEE WALL SECTIONS, ROOF PLAN AND STRUCTURAL.
211	DOOR AND FRAME. SEE DOOR SCHEDULE.
221	MECHANICAL LOUVER. COORDINATE WITH STRUCTURAL AND MECHANICAL. FIELD VERIFY LOCATION WITH ARCHITECT PRIOR TO FABRICATION.
222	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
224	METAL GUTTER AND DOWNSPOUT. SEE ROOF DETAILS AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
235	STEEL STRUCTURE, PAINT ALL EXPOSED SECTIONS. SEE STRUCTURAL.
237	STUCCO CONTROL JOINT. SEE MISCELLANEOUS DETAILS.
243	LIGHT FIXTURE. SEE ELECTRICAL.
248	POST DOOR STOP. SEE LANDSCAPING DETAILS.
249	OVERFLOW SCUPPER. SEE ROOF DETAILS.
250	OVERFLOW SCUPPER AND DOWNSPOUT. SEE ROOF DETAILS.



C1 ELEVATION - NORTH 'B'
1/8" = 1'-0"



A1 ELEVATION - WEST 'A'
1/8" = 1'-0"

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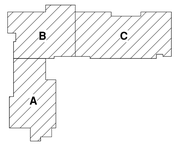
SHEET TITLE

BUILDING ELEVATIONS

A-202

Farmington Preschool Academy



KEY PLAN

N.T.S.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

EXTERIOR FINISH LEGEND

- 3 COAT STUCCO SYSTEM COLOR 1 WITH ANTI-GRAFFITI COATING
- 3 COAT STUCCO SYSTEM COLOR 2 WITH ANTI-GRAFFITI COATING
- 3 COAT STUCCO SYSTEM COLOR 3 WITH ANTI-GRAFFITI COATING
- PREFINISHED METAL PANEL SYSTEM
- PREFINISHED METAL PANEL SYSTEM
- EXPOSED CONCRETE

GENERAL NOTES

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B. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

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G. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHEETS FOR INFORMATION.

H. FINISH AND INSTALL ANTI-GRAFFITI COATING AT ALL EXTERIOR STUCCO FINISH.

KEYNOTES

201	ALUMINUM STOREFRONT ASSEMBLY. SEE FLOOR PLAN, AND DOOR SCHEDULE OR WINDOW SCHEDULE.
202	ALUMINUM SUNSHADE BY WINDOW MANUFACTURER. ATTACH TO WINDOW FRAME PER MANUFACTURER'S RECOMMENDATIONS. SEE WALL SECTIONS.
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211	DOOR AND FRAME. SEE DOOR SCHEDULE.
222	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
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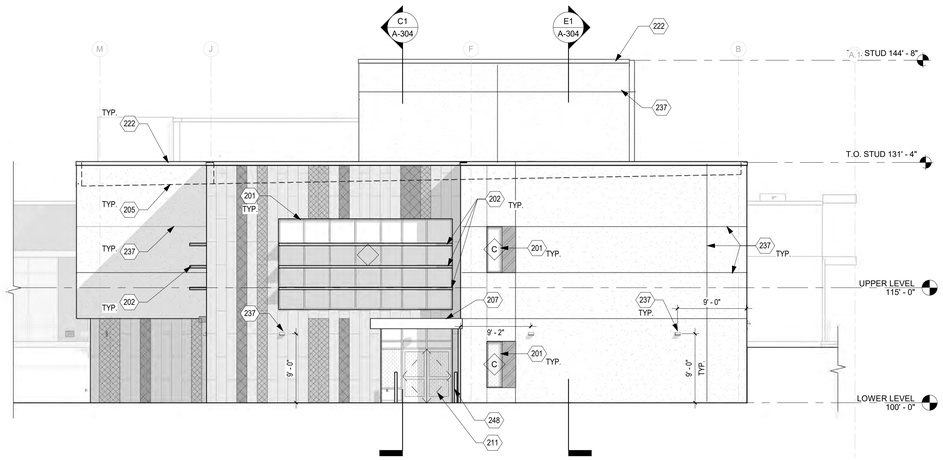
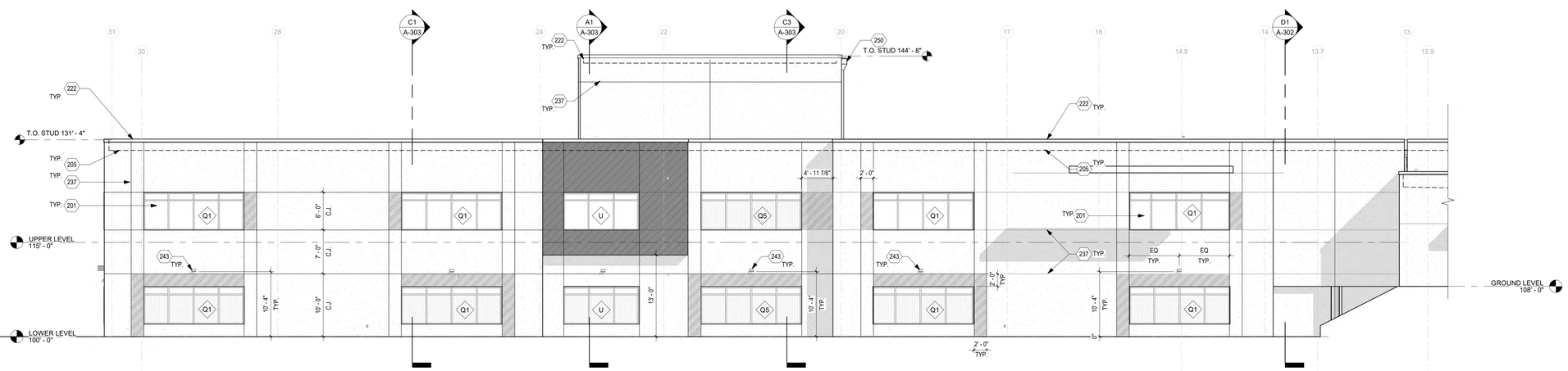


C1 ELEVATION - EAST 'C'
1/8" = 1'-0"



A1 ELEVATION - NORTH 'C'
1/8" = 1'-0"

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SHEET TITLE

BUILDING ELEVATIONS

A-203

Farmington Preschool Academy

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

GENERAL NOTES

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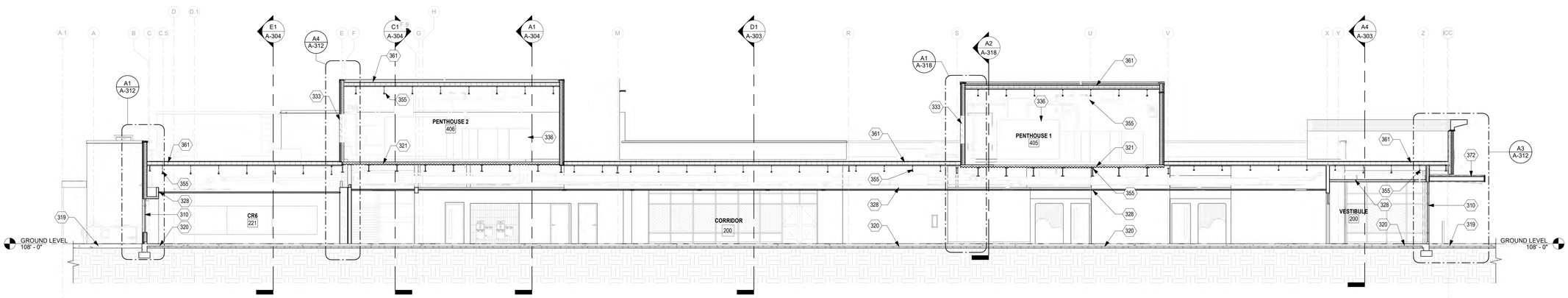
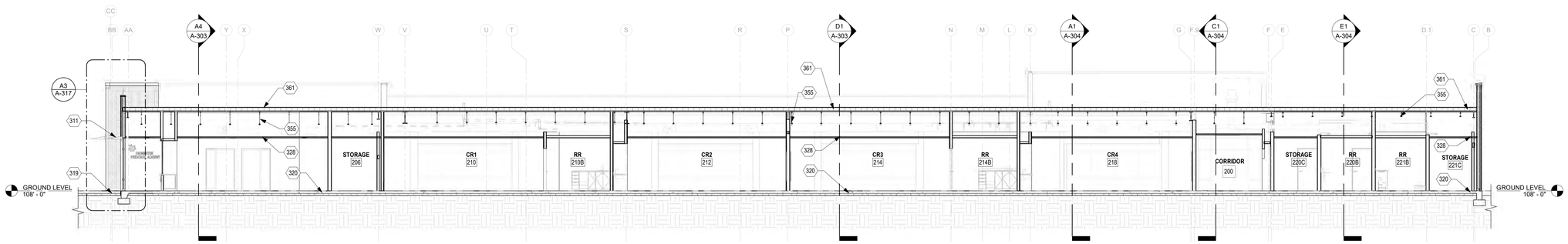
H. FINISH AND INSTALL ANTI-GRAFFITI COATING AT ALL EXTERIOR STUCCO FINISH.

KEYNOTES

310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
311	ALUMINUM SUN SHADE. SEE WINDOW DETAILS.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
328	FINISH CEILING. SEE RCP.
333	MECHANICAL LOUVER. SEE MECHANICAL. COORDINATE OPENING LOCATION WITH BUILDING ELEVATION.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.



C1 SECTION LOOKING EAST - HALLWAY
1/8" = 1'-0"



A1 SECTION LOOKING WEST - CLASSROOMS & ADMIN
1/8" = 1'-0"

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STAMPED DRAWING
ARCHITECT

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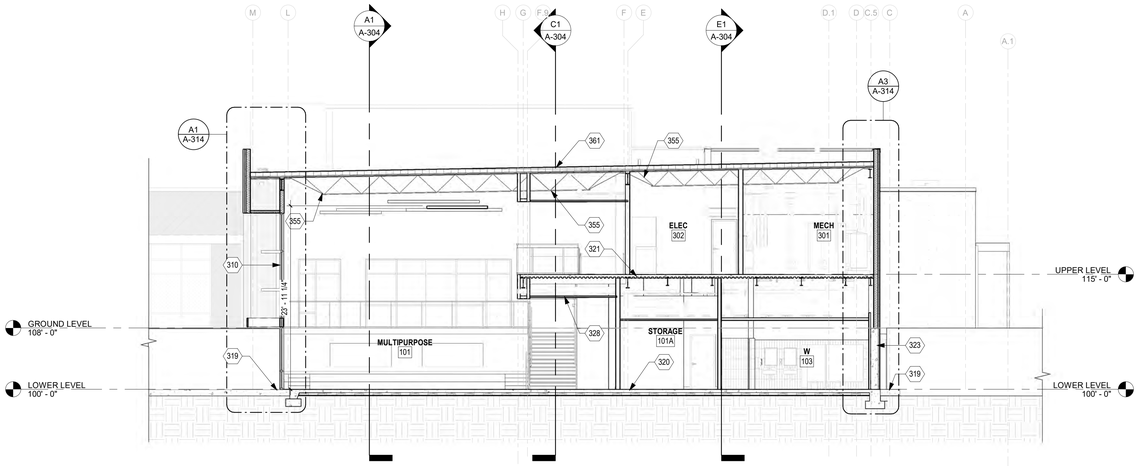
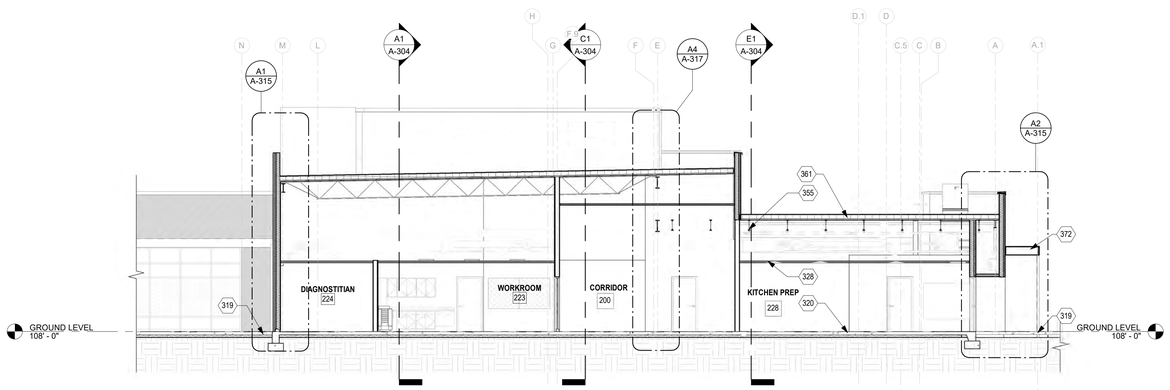
SHEET TITLE
BUILDING SECTIONS

A-301

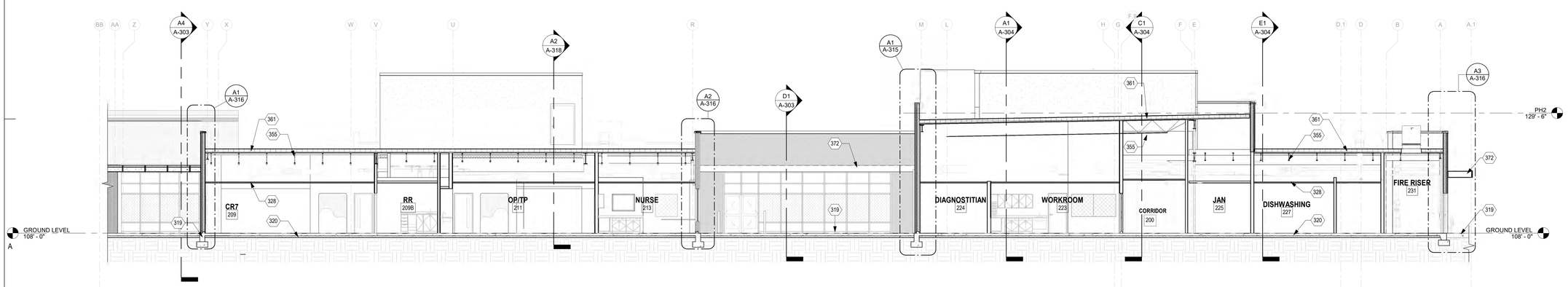
Farmington Preschool Academy



D1 SECTION LOOKING WEST - MULTIPURPOSE
1/8" = 1'-0"



C1 SECTION LOOKING WEST - MECHANICAL
1/8" = 1'-0"



A1 SECTION LOOKING WEST - NURSE & KITCHEN
1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101 / 1 Ref	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
323	CONCRETE RETAINING WALL AND FOOTING. SEE STRUCTURAL.
328	FINISH CEILING. SEE RCP.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.

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03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED ARCHITECT

ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

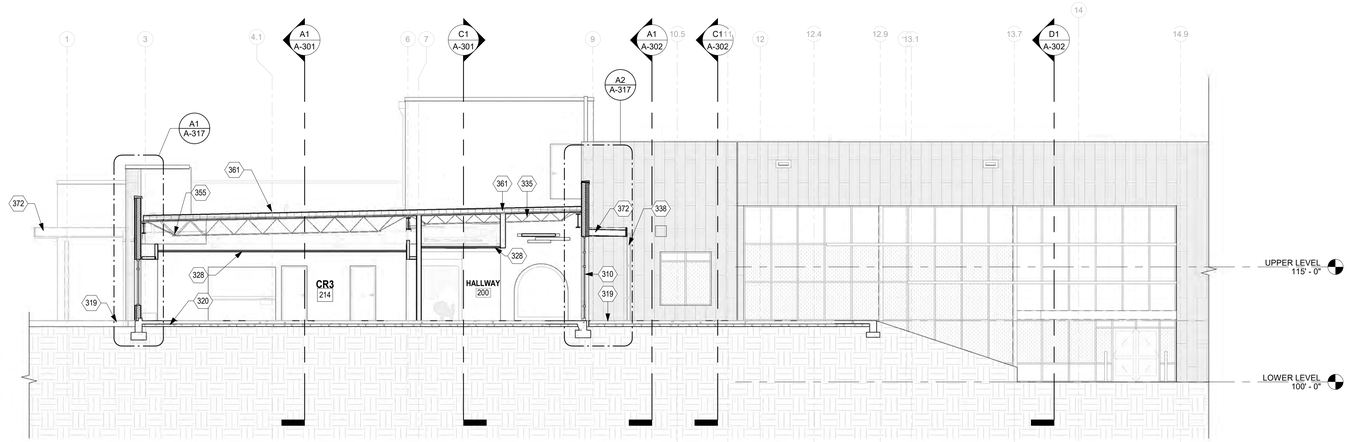
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE

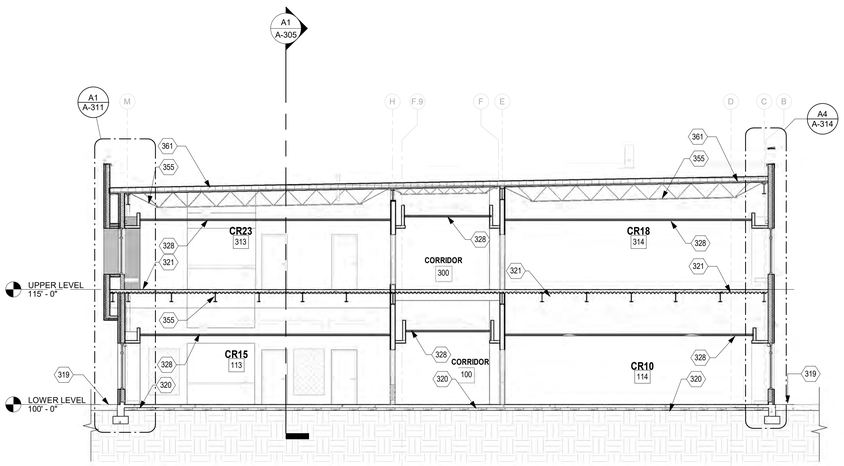
BUILDING SECTIONS

A-302

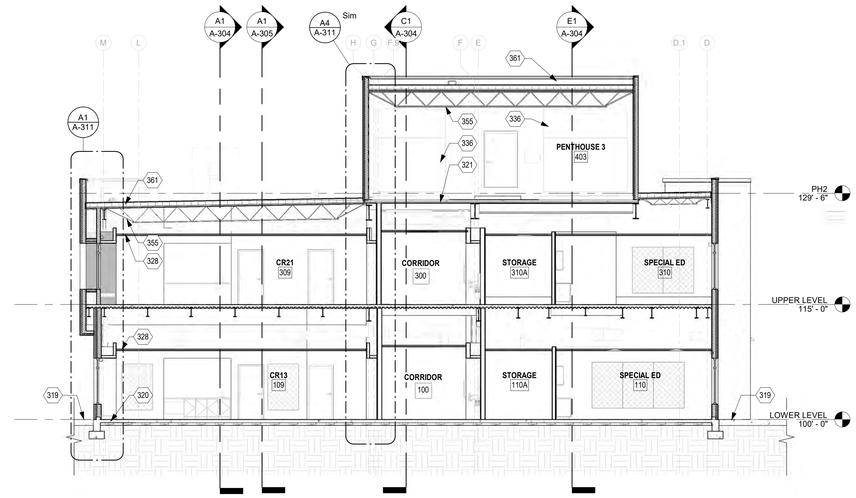
Farmington Preschool Academy



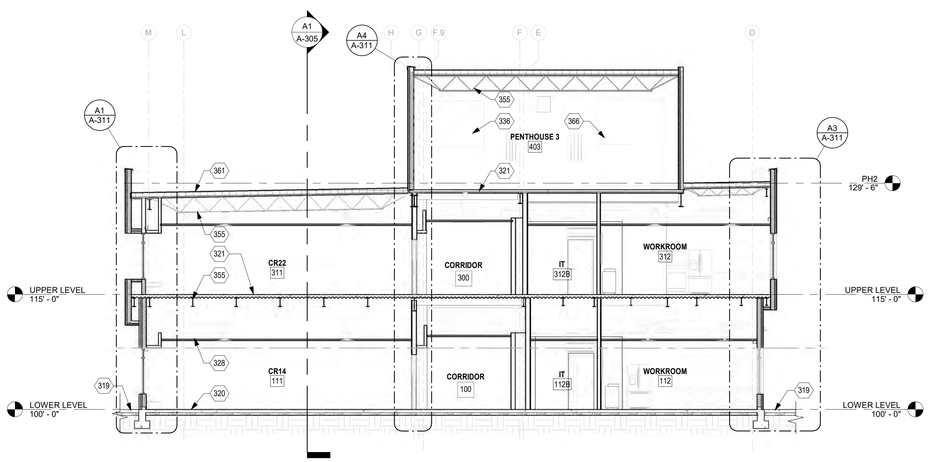
D1 SECTION LOOKING NORTH - CLASSROOM 'A'
1/8" = 1'-0"



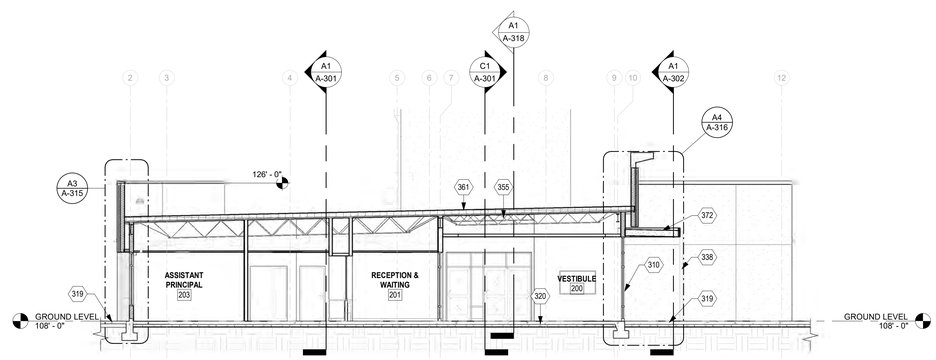
C1 SECTION LOOKING EAST - CLASSROM & WORKROOM1
1/8" = 1'-0"



C3 SECTION LOOKING EAST - CLASSROM & WORKROOM2
1/8" = 1'-0"



A1 SECTION LOOKING EAST - CLASSROM & WORKROOM
1/8" = 1'-0"



A4 SECTION LOOKING NORTH - ADMINISTRATION 'A'
1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
328	FINISH CEILING. SEE RCP.
335	EXPOSED MECHANICAL DUCTWORK. PAINT, COLOR TO BE SELECTED BY ARCHITECT. SEE MECHANICAL.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
338	METAL GUTTER AND DOWNSPOUT. SEE ROOF DETAILS AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
366	WALL CAP. PLASTIC LAMINATE TYPE. SEE MISCELLANEOUS DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.

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REGISTERED ARCHITECT
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CONSTRUCTION DOCUMENTS
MARCH 2024

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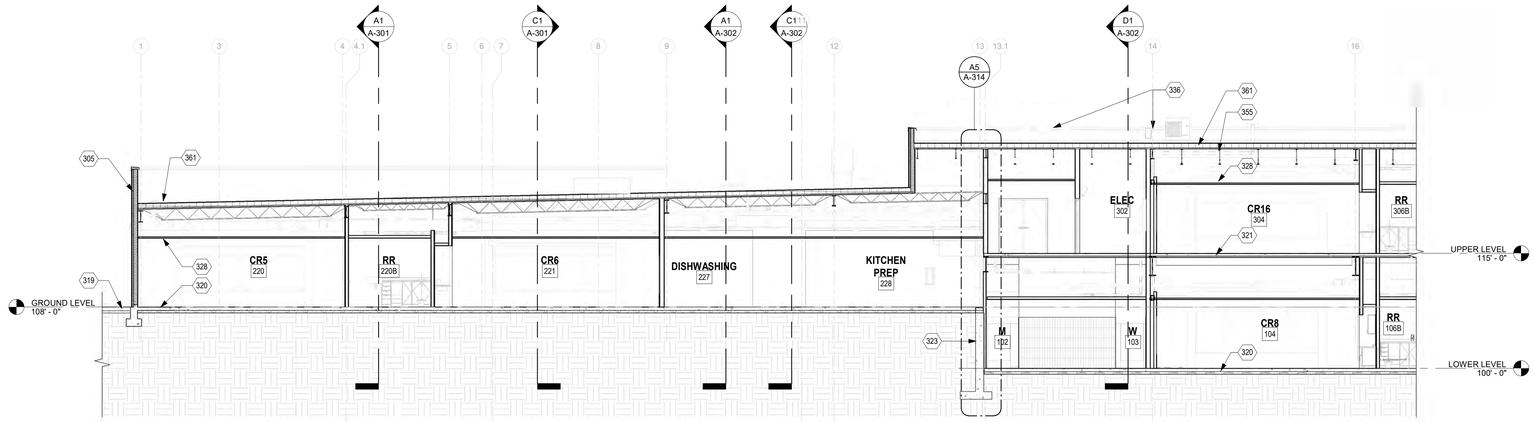
CHECKED BY:	

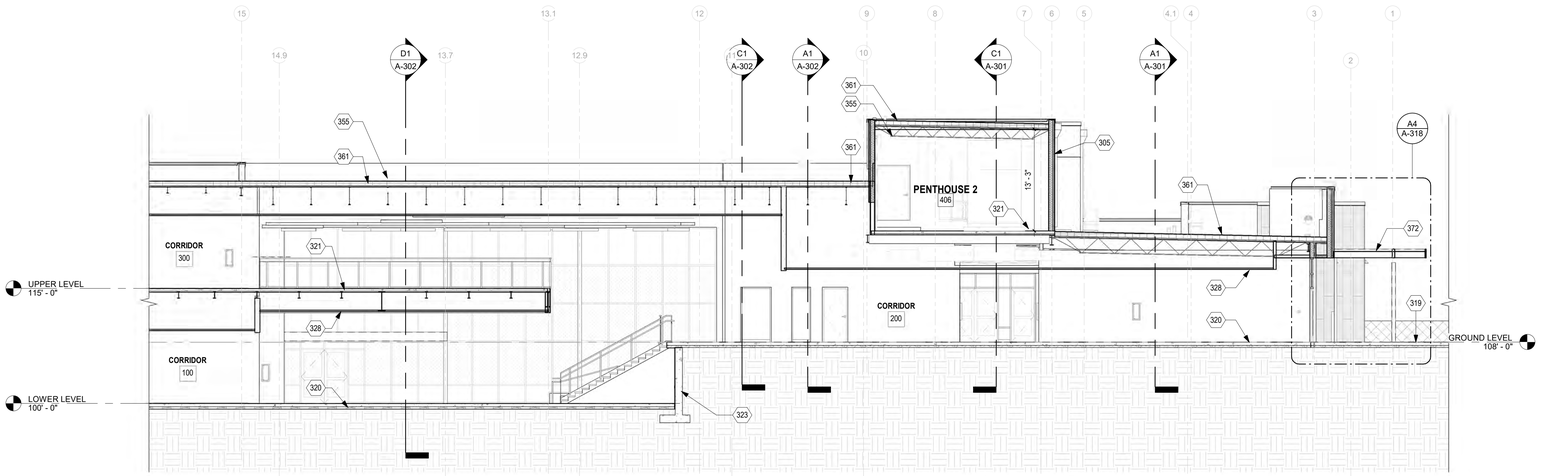
SHEET TITLE
BUILDING SECTIONS

A-303

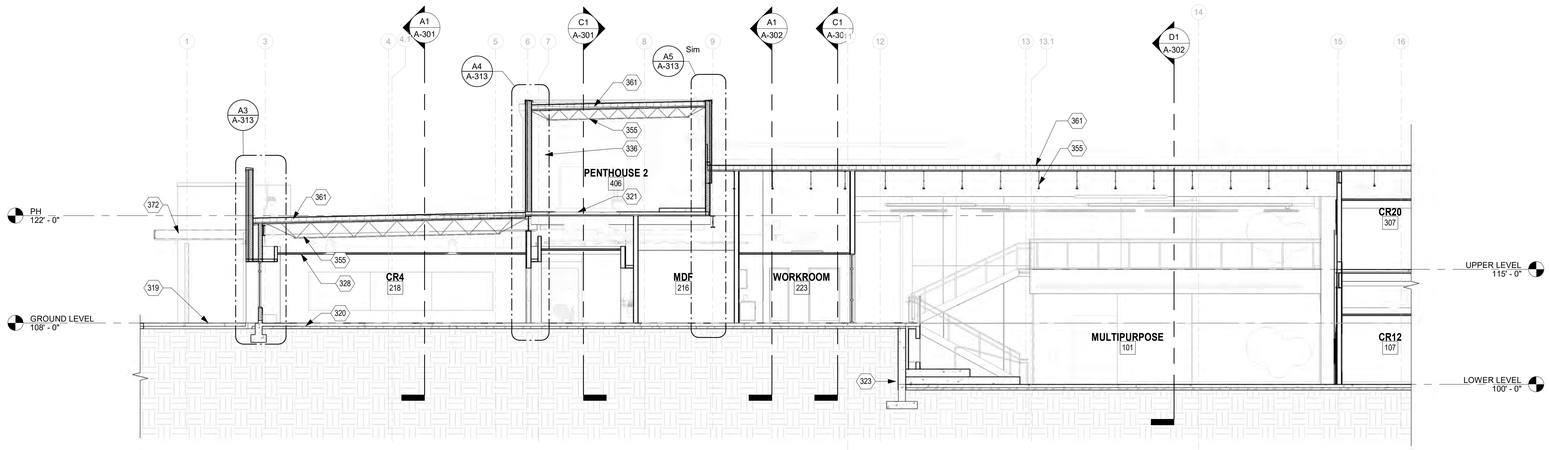
Farmington Preschool Academy



E1 SECTION LOOKING NORTH - KITCHEN & CLASSROOMS
1/8" = 1'-0"



C1 SECTION LOOKING NORTH - HALLWAY 'C'
1/8" = 1'-0"



A1 SECTION LOOKING NORTH - MULTIPURPOSE
1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

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H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

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J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
323	CONCRETE RETAINING WALL AND FOOTING. SEE STRUCTURAL.
328	FINISH CEILING. SEE RCP.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
STAMPED DOCUMENT

ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
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CONSTRUCTION DOCUMENTS
MARCH 2024

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SHEET TITLE

BUILDING SECTIONS

A-304

Farmington Preschool Academy

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

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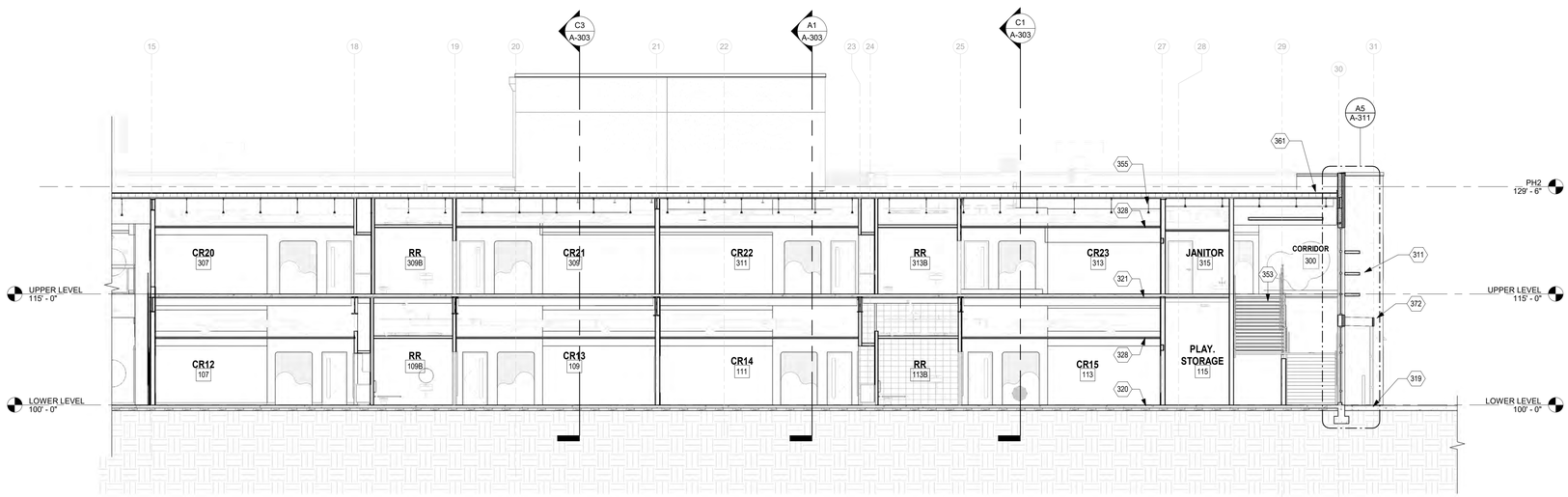
J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

311	ALUMINUM SUN SHADE. SEE WINDOW DETAILS.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
328	FINISH CEILING. SEE RCP.
353	STEEL STAIRS. SEE STRUCTURAL.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.



A1 SECTION LOOKING SOUTH - MULTIPURPOSE & CLASSROMS
1/8" = 1'-0"

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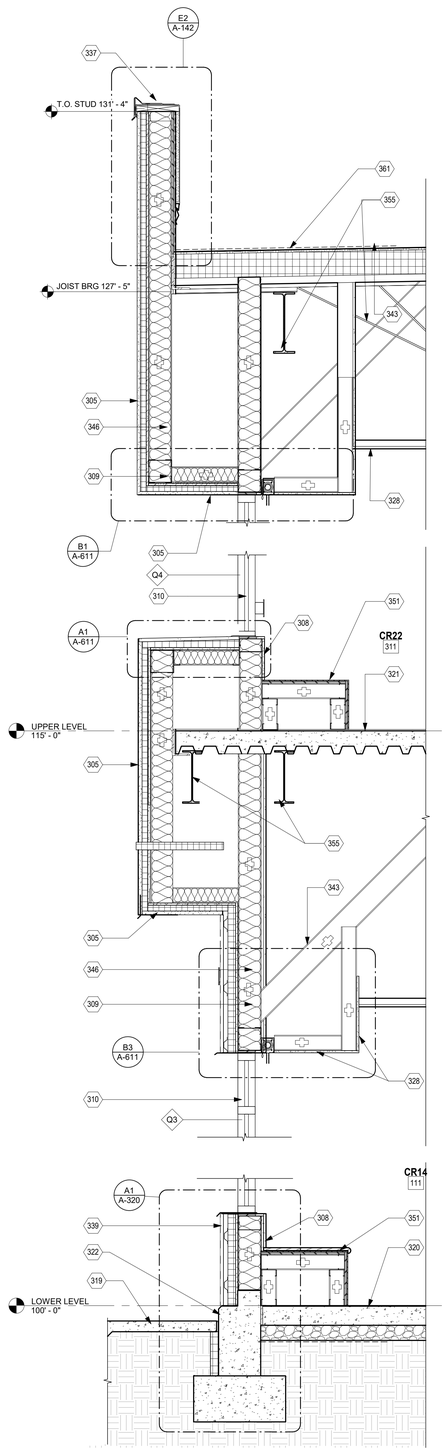
SHEET TITLE

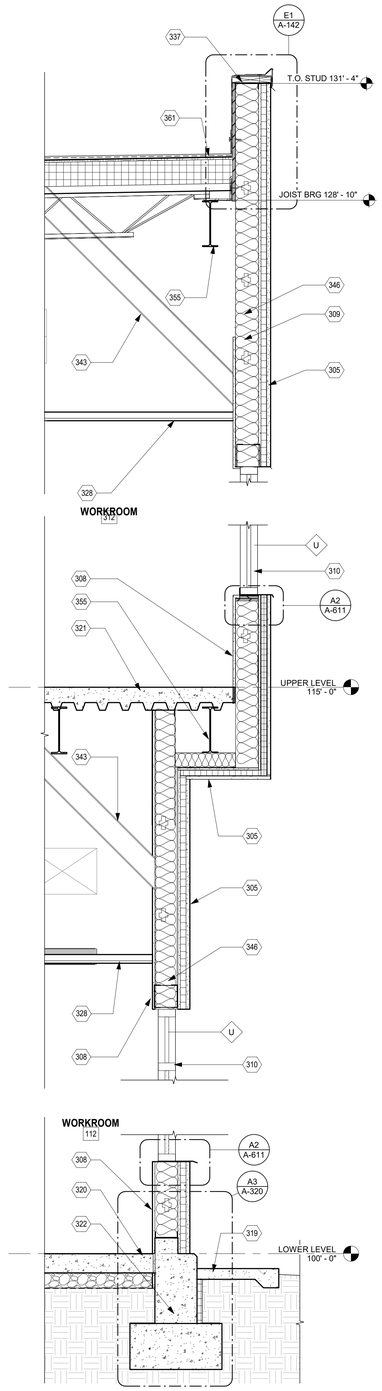
BUILDING SECTIONS

A-305

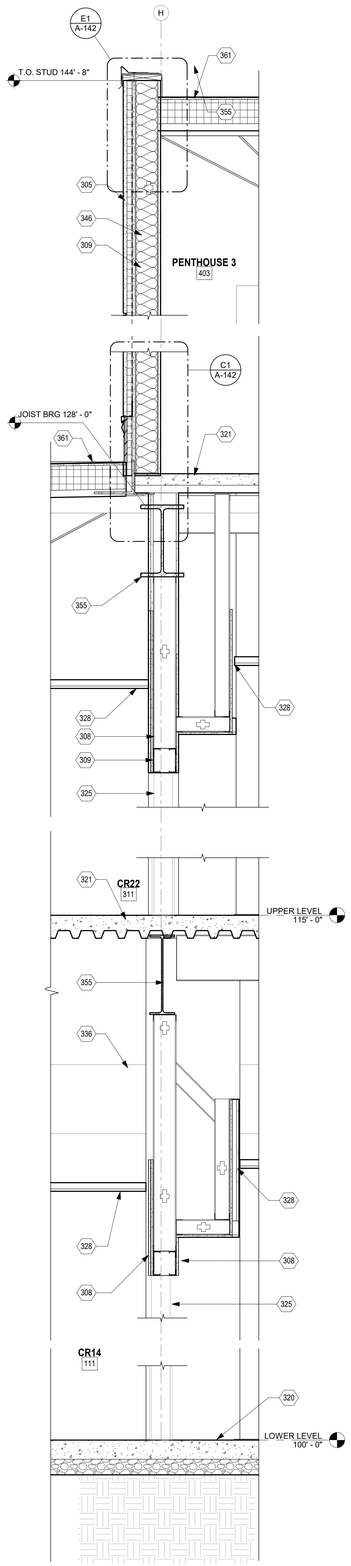
Farmington Preschool Academy



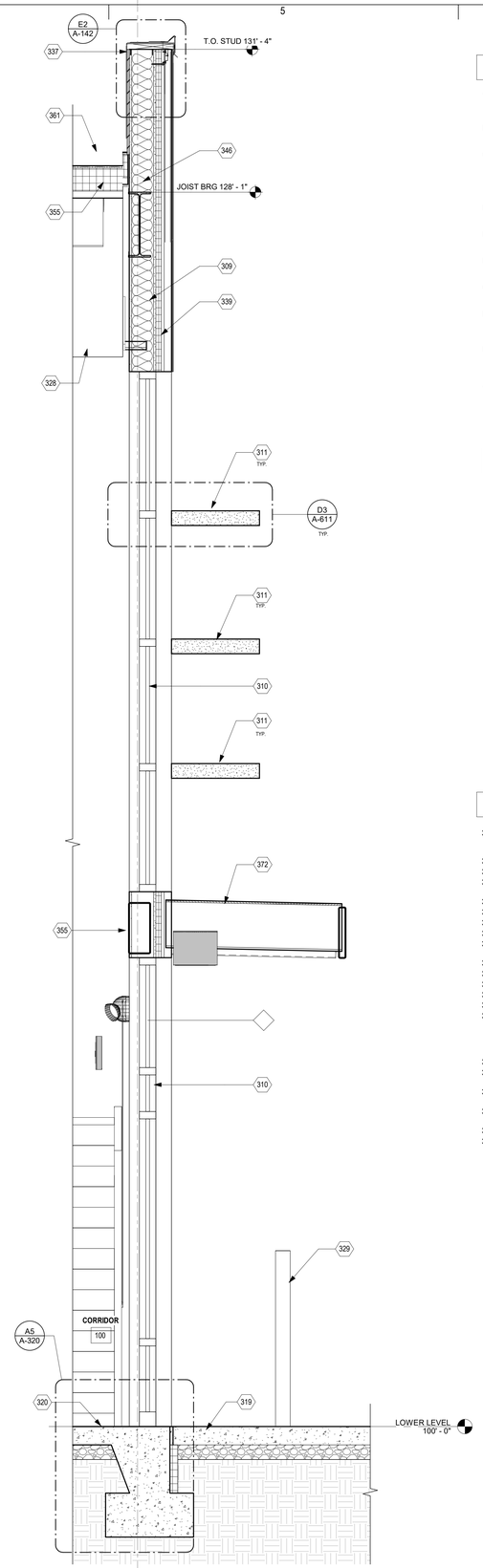
A1 WALL SECTION
3/4" = 1'-0"



A3 WALL SECTION - NORTH WORKROOM
3/4" = 1'-0"



A4 WALL SECTION - PH3 SOUTH
3/4" = 1'-0"



A5 WALL SECTION - EAST ENTRY
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE "X" GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
311	ALUMINUM SUN SHADE. SEE WINDOW DETAILS.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
325	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
328	FINISH CEILING. SEE RCP.
329	POST DOOR STOP. SEE SITE DETAILS.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
339	METAL PANEL SYSTEM AND MOISTURE BARRIER OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. INSTALL PANELS ON KNIGHT WALL 3/4" VERTICAL CI-GIRT, SPACE PER MANUFACTURERS REQUIREMENTS FOR ATTACHMENT OF PANELS AS SHOWN ON BUILDING ELEVATIONS."
343	STRUCTURAL BRACING. SEE STRUCTURE.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
351	BUILT-IN BENCH, TYPICAL AT CLASSROOMS. SEE ENLARGED PLANS AND ELEVATIONS.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
STAMPED DOCUMENT

ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

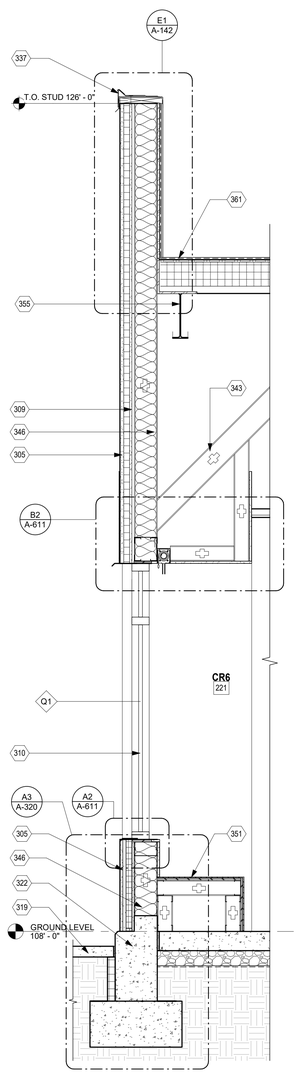
MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

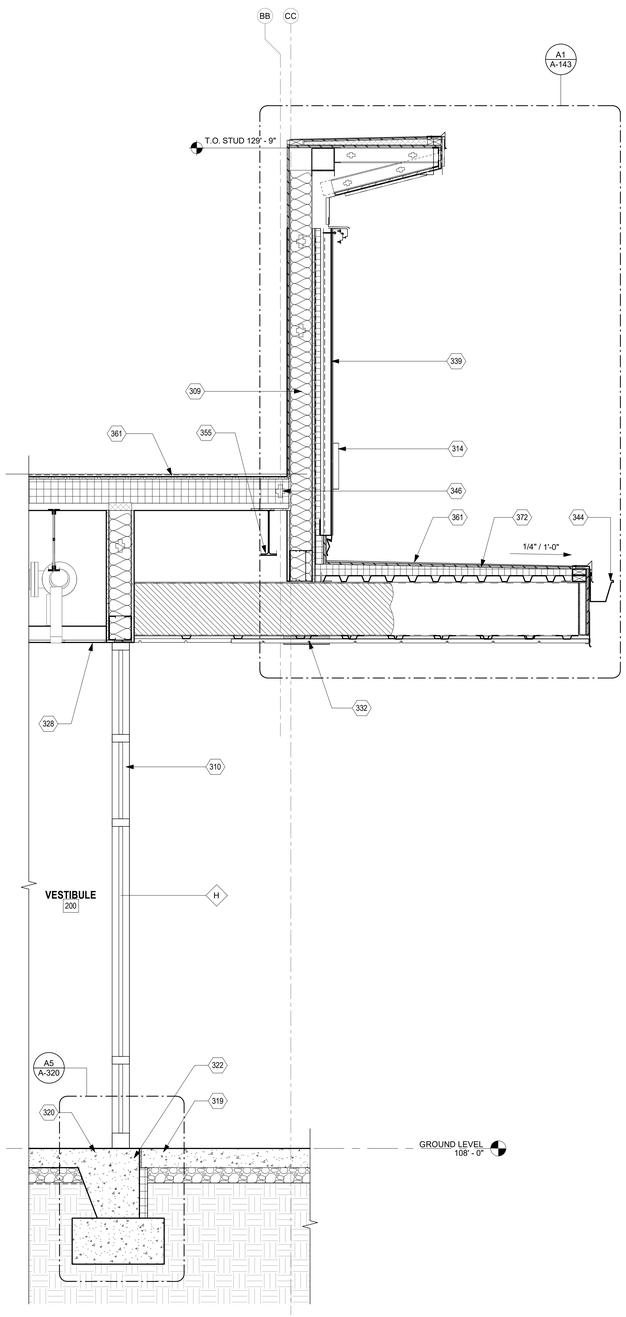
SHEET TITLE
WALL SECTIONS

A-311

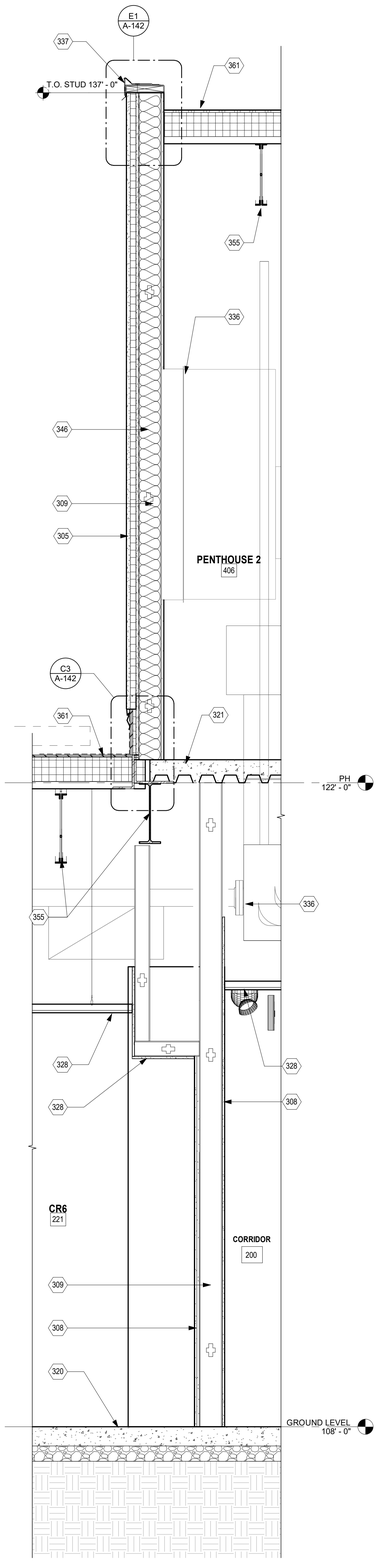
Farmington Preschool Academy



A1 WALL SECTION - CR 221
3/4" = 1'-0"



A3 WALL SECTION - VESTIBULE SOUTH
3/4" = 1'-0"



A4 WALL SECTION
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / 1 Ref / A101 / 1 Ref / 1 Ref	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE 'X' GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
314	BUILDING SIGNAGE. PRE-FINISHED ALUMINUM LETTERS. FINAL TEXT TO BE APPROVED BY ARCHITECT AND OWNER. BLIND STUD MOUNT TO SUBSTRATE OR SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.*
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
328	FINISH CEILING. SEE RCP.
332	LIGHT FIXTURE. SEE RCP AND ELECTRICAL.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
339	METAL PANEL SYSTEM AND MOISTURE BARRIER OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. INSTALL PANELS ON KNIGHT WALL 3/4" VERTICAL C-GIRT, SPACE PER MANUFACTURERS REQUIREMENTS FOR ATTACHMENT OF PANELS AS SHOWN ON BUILDING ELEVATIONS.*
343	STRUCTURAL BRACING. SEE STRUCTURE.
344	PRE-FINISHED METAL GUTTER AND DOWNSPOUT. SEE ROOF PLAN, BUILDING ELEVATIONS, AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
351	BUILT-IN BENCH, TYPICAL AT CLASSROOMS. SEE ENLARGED PLANS AND ELEVATIONS.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.

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MARCH 2024

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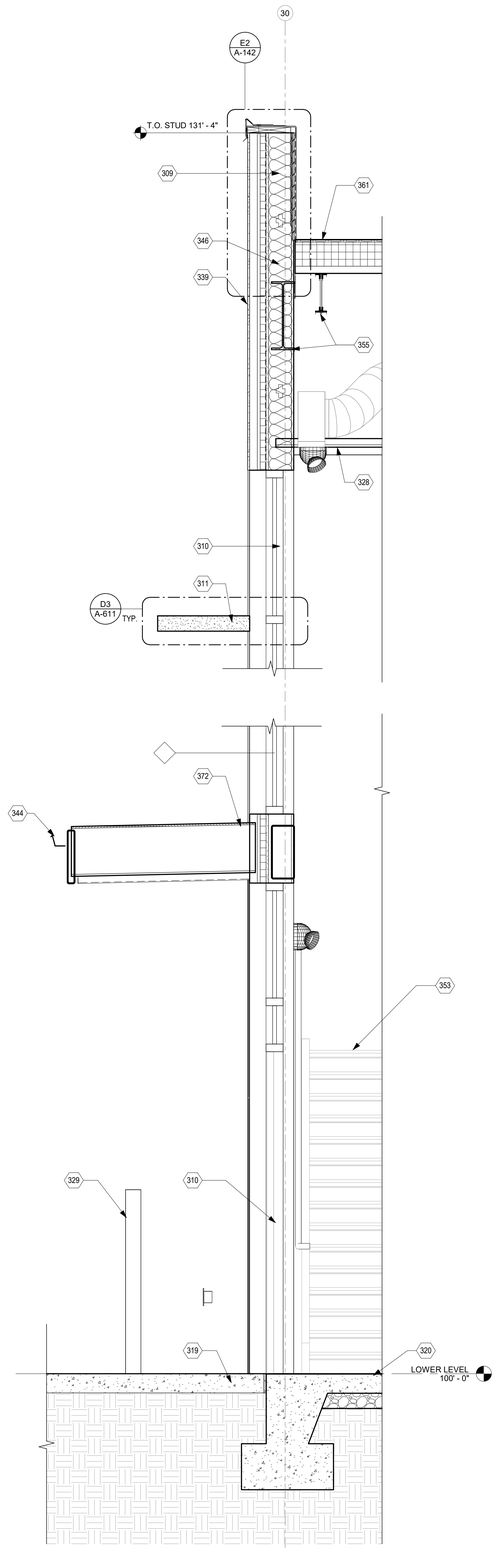
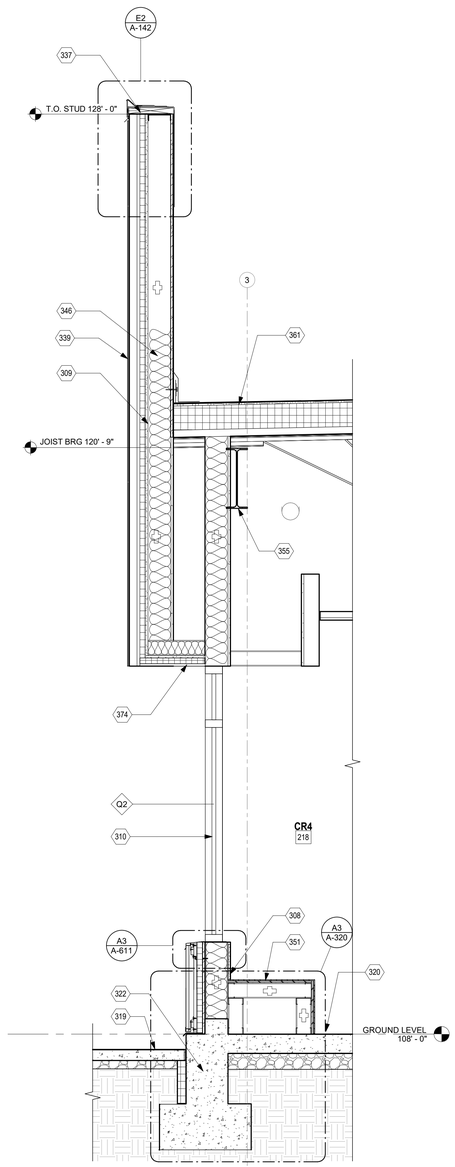
SHEET TITLE
WALL SECTIONS

A-312

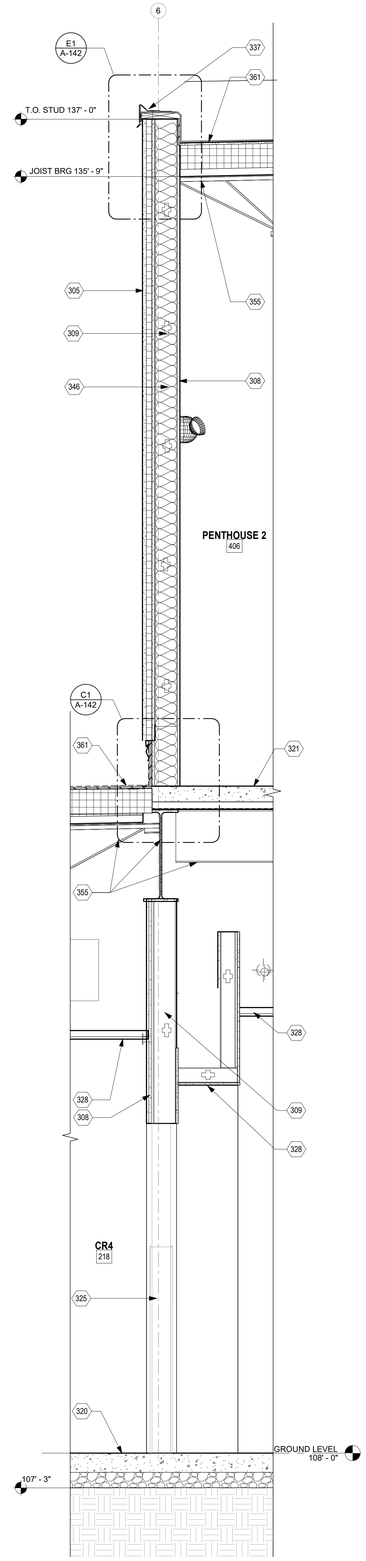
Farmington Preschool Academy



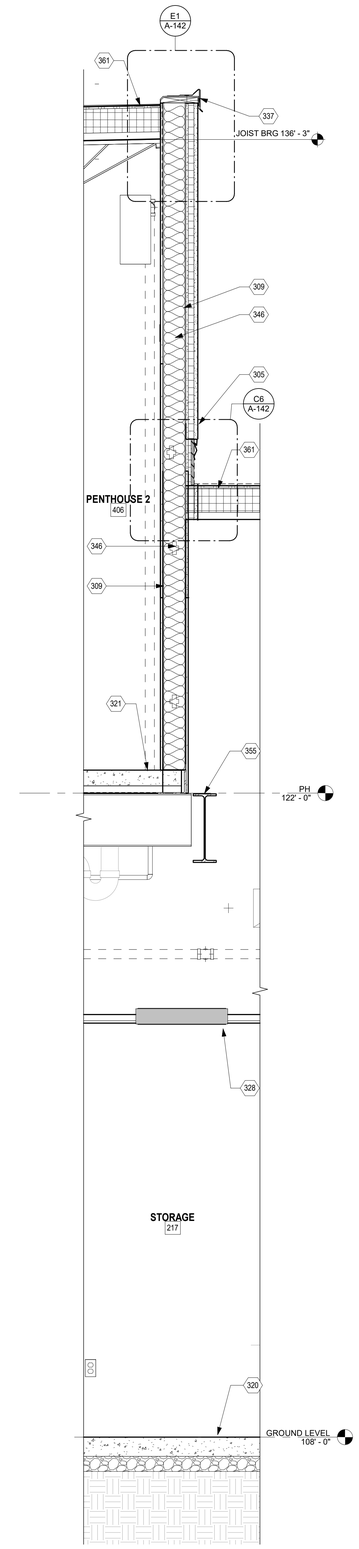
A1 WALL SECTION - WEST ENTRY
3/4" = 1'-0"



A3 WALL SECTION - CR 218
3/4" = 1'-0"



A4 WALL SECTION - PH2 WEST
3/4" = 1'-0"



A5 WALL SECTION - PH2 EAST
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / 1 Ref / A101 / 1 Ref / 1 Ref	INTERIOR ELEVATION
1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE 'X' GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
311	ALUMINUM SUN SHADE. SEE WINDOW DETAILS.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
325	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
328	FINISH CEILING. SEE RCP.
329	POST DOOR STOP. SEE SITE DETAILS.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
339	METAL PANEL SYSTEM AND MOISTURE BARRIER OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. INSTALL PANELS ON KNIGHT WALL 3/4" VERTICAL CI-GIRT, SPACE PER MANUFACTURERS REQUIREMENTS FOR ATTACHMENT OF PANELS AS SHOWN ON BUILDING ELEVATIONS."
344	PRE-FINISHED METAL GUTTER AND DOWNSPOUT. SEE ROOF PLAN, BUILDING ELEVATIONS, AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
351	BUILT-IN BENCH, TYPICAL AT CLASSROOMS. SEE ENLARGED PLANS AND ELEVATIONS.
353	STEEL STAIRS. SEE STRUCTURAL.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.
374	PRE-FINISHED ALUMINUM SOFFIT PANEL.

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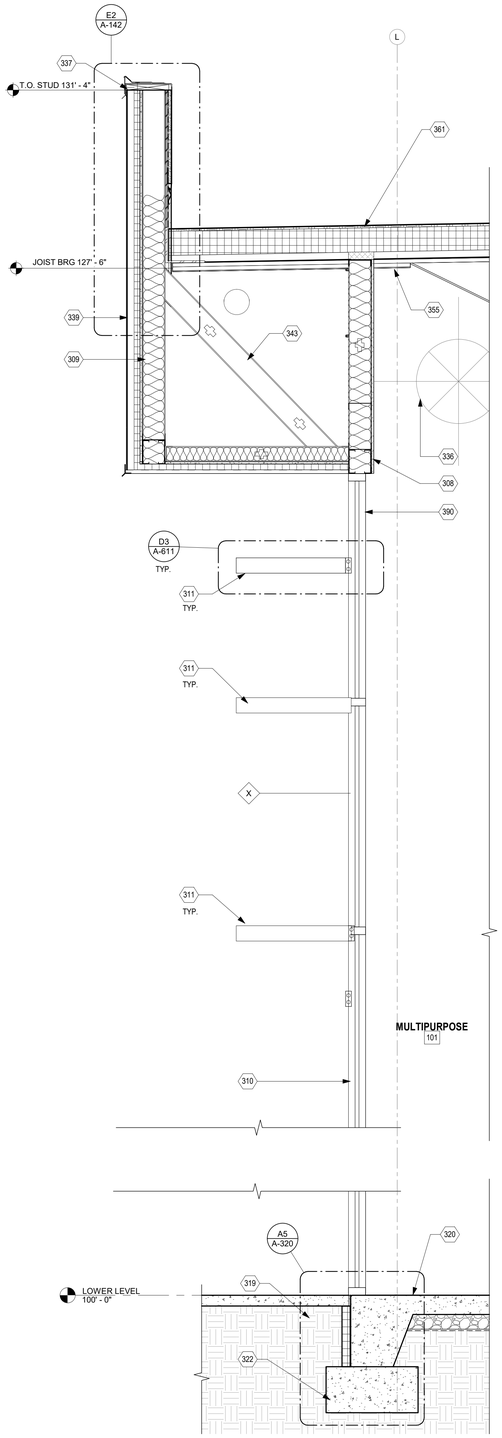
SHEET TITLE

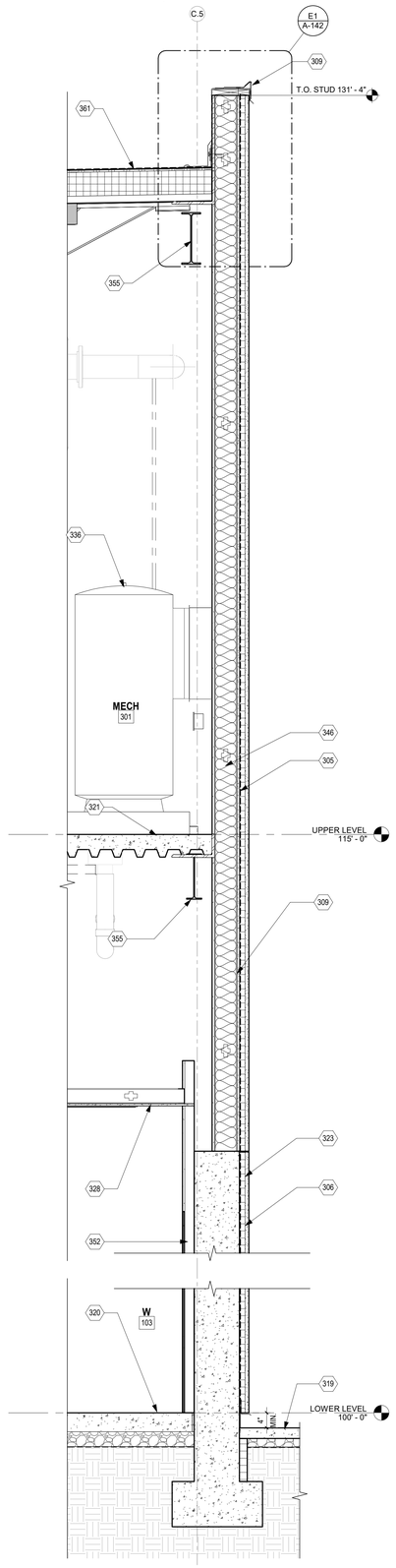
WALL SECTIONS

A-313

Farmington Preschool Academy



A1 WALL SECTION
3/4" = 1'-0"



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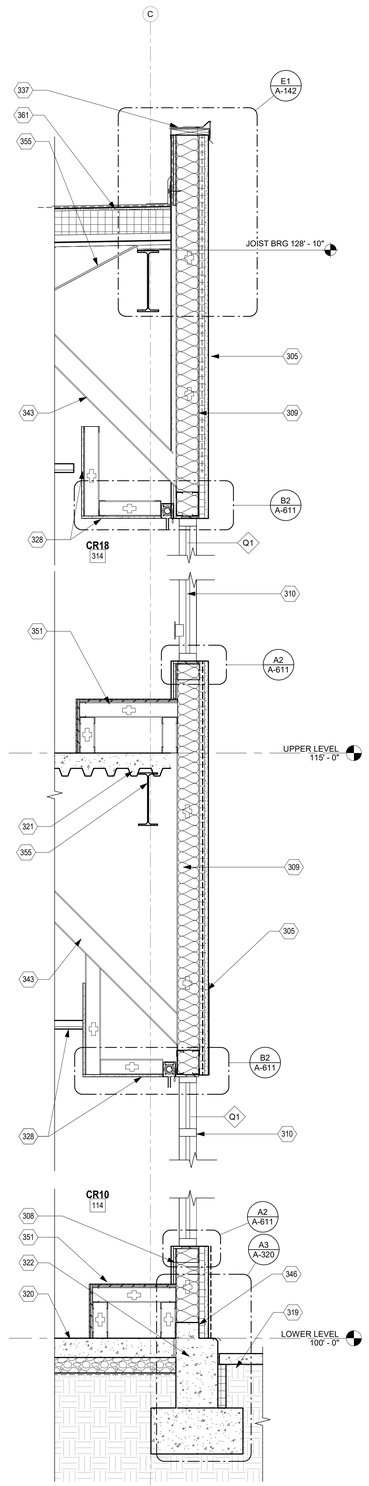
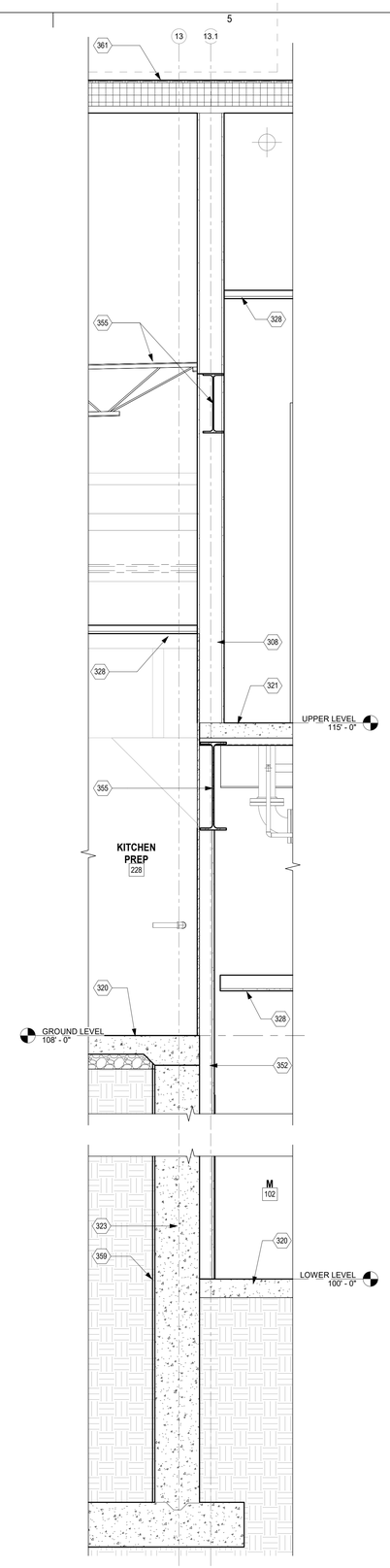
3/4" = 1'-0"



A4 WALL SECTION
3/4" = 1'-0"



A5 WALL SECTION - RETAINING WALL @ M102
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 SIM / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
306	3 COAT STUCCO SYSTEM, DIRECT APPLIED. SEE WALL SECTIONS. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE 'X' GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
311	ALUMINUM SUN SHADE. SEE WINDOW DETAILS.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
323	CONCRETE RETAINING WALL AND FOOTING. SEE STRUCTURAL.
328	FINISH CEILING. SEE RCP.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
339	METAL PANEL SYSTEM AND MOISTURE BARRIER OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. INSTALL PANELS ON KNIGHT WALL 3/4" VERTICAL CI-GIRT, SPACE PER MANUFACTURERS REQUIREMENTS FOR ATTACHMENT OF PANELS AS SHOWN ON BUILDING ELEVATIONS.*
343	STRUCTURAL BRACING. SEE STRUCTURE.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
351	BUILT-IN BENCH, TYPICAL AT CLASSROOMS. SEE ENLARGED PLANS AND ELEVATIONS.
352	FUR OUT CONCRETE WALL WITH 5/8" TYPE 'X' GYP BOARD OVER 2 1/2" STEEL STUDS AT 16" O.C.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
359	BELOW GRADE DAMPPROOFING. SEE SPECIFICATIONS.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
390	ALUMINUM CURTAIN WALL SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
STAMPED DRAWING
ARCHITECT

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

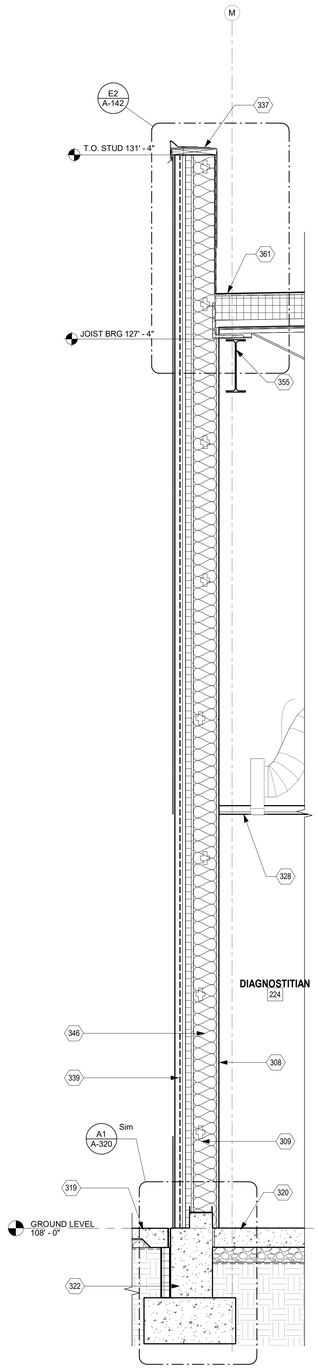
MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

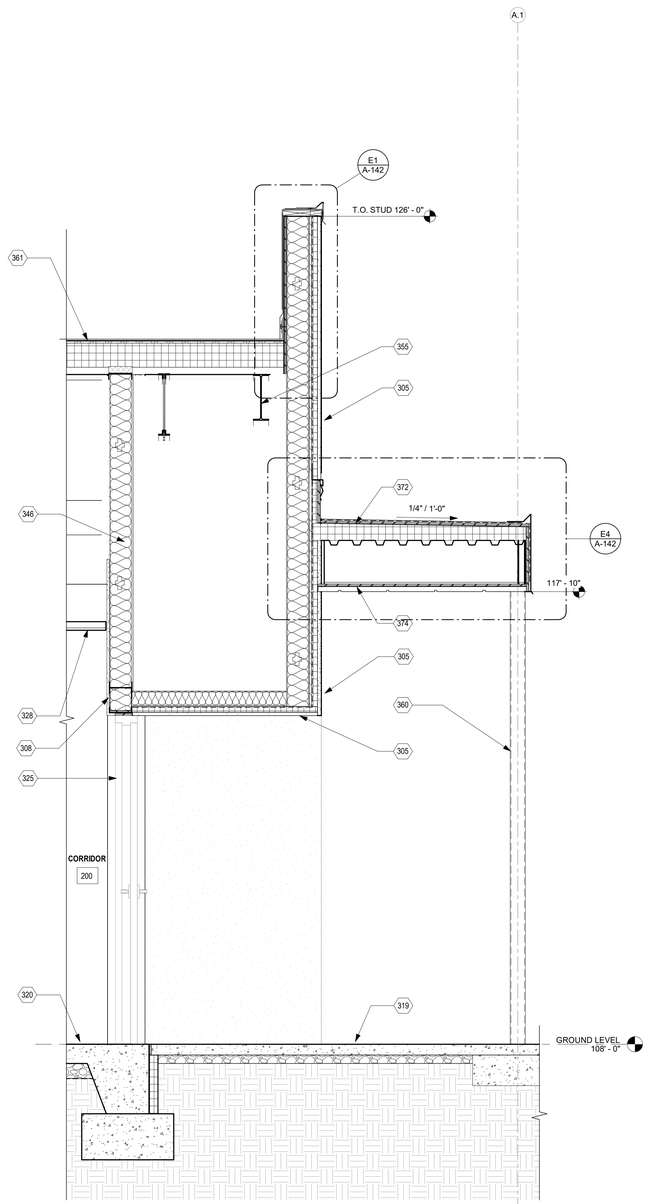
SHEET TITLE
WALL SECTIONS

A-314

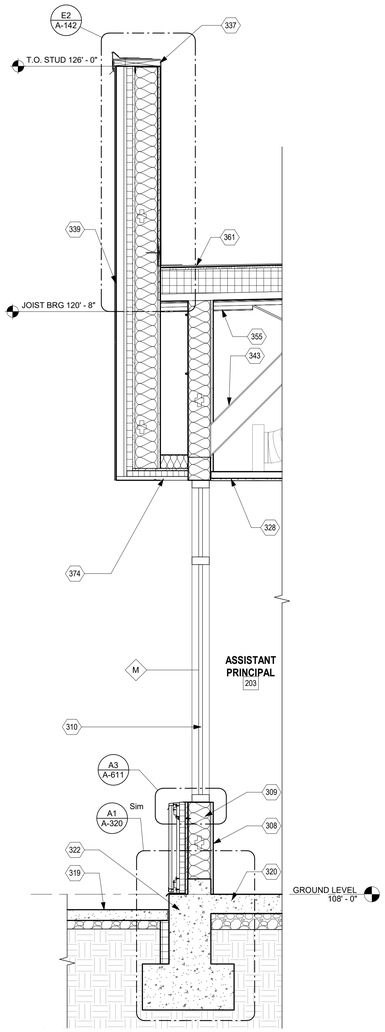
Farmington Preschool Academy



A1 WALL SECTION
3/4" = 1'-0"



A2 WALL SECTION - KITCHEN ENTRY NORTH
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTINGS/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / Ref / Ref / 1 Ref — A101	INTERIOR ELEVATION
SIM — 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE 'X' GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
325	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
328	FINISH CEILING. SEE RCP.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
339	METAL PANEL SYSTEM AND MOISTURE BARRIER OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. INSTALL PANELS ON KNIGHT WALL 3/4" VERTICAL CI-GIRT, SPACE PER MANUFACTURERS REQUIREMENTS FOR ATTACHMENT OF PANELS AS SHOWN ON BUILDING ELEVATIONS.".
343	STRUCTURAL BRACING. SEE STRUCTURE.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
360	STEEL COLUMN. PAINT. SEE STRUCTURAL.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.
374	PRE-FINISHED ALUMINUM SOFFIT PANEL.

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SANJAY L. ENGINEER
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MARCH 2024

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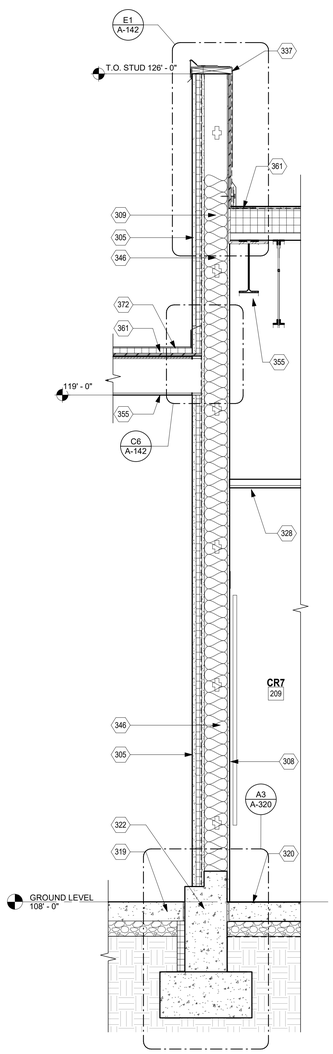
SHEET TITLE

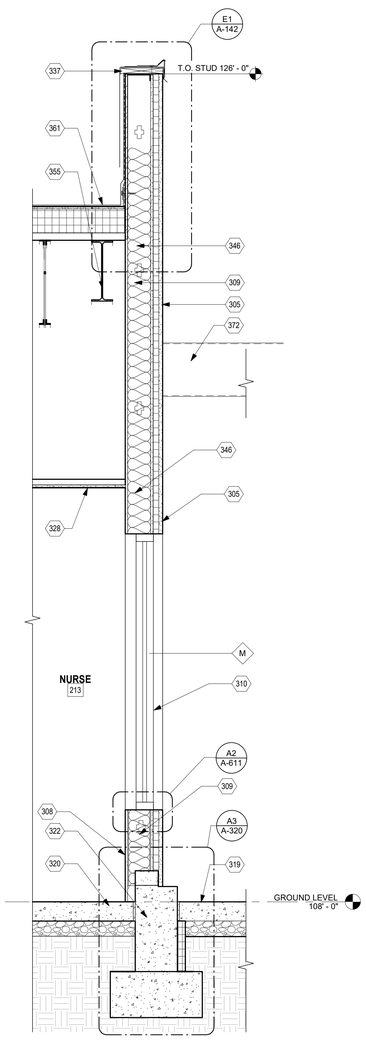
WALL SECTIONS

A-315

Farmington Preschool Academy



A1 WALL SECTION
3/4" = 1'-0"



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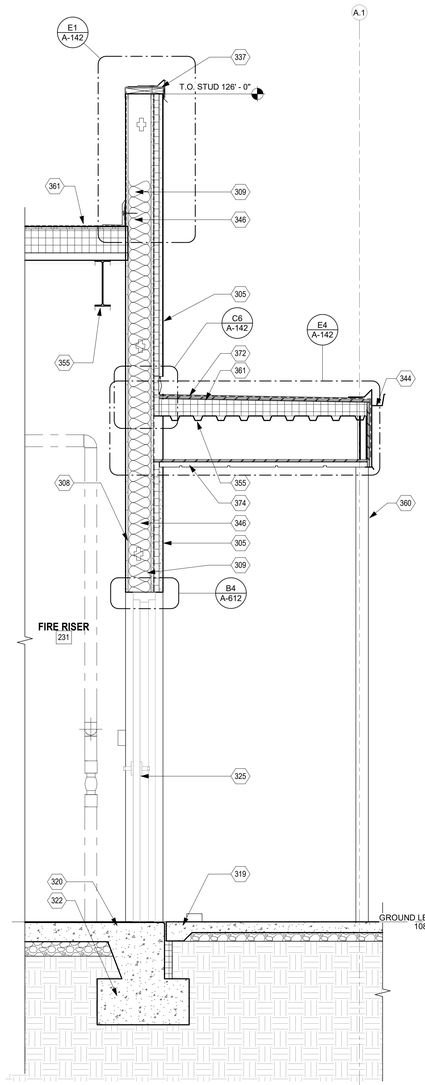
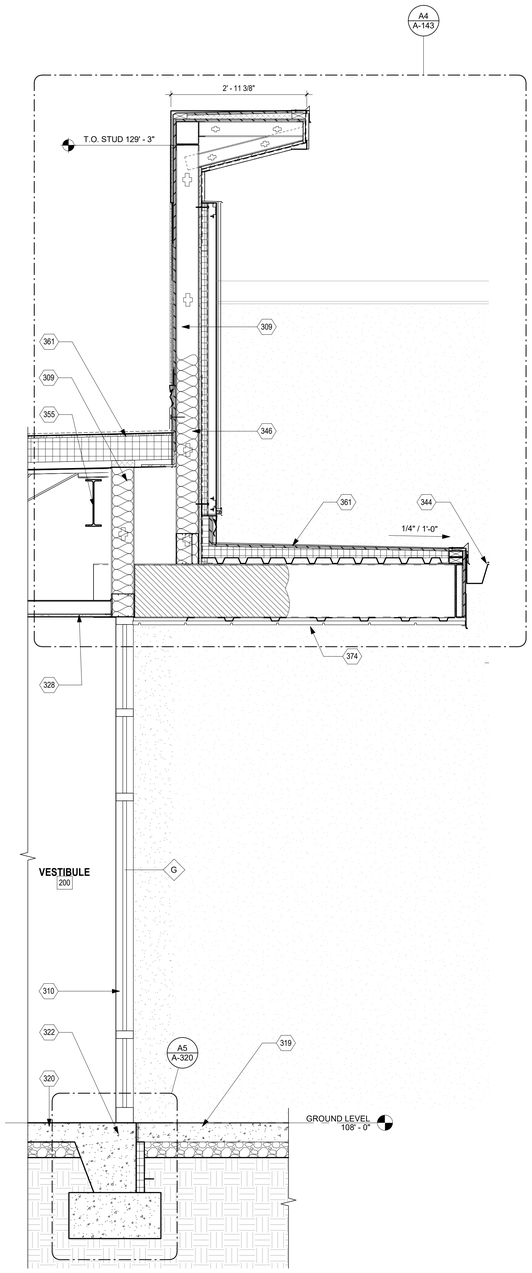
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A4 WALL SECTION
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / 1 Ref / A101 / 1 Ref / 1 Ref	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE 'X' GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
325	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
328	FINISH CEILING. SEE RCP.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
344	PRE-FINISHED METAL GUTTER AND DOWNSPOUT. SEE ROOF PLAN, BUILDING ELEVATIONS, AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
360	STEEL COLUMN. PAINT. SEE STRUCTURAL.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
372	CANOPY. SEE ROOF PLAN AND REFLECTED CEILING PLAN.
374	PRE-FINISHED ALUMINUM SOFFIT PANEL.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
LICENSED ARCHITECT

ARCHITECT

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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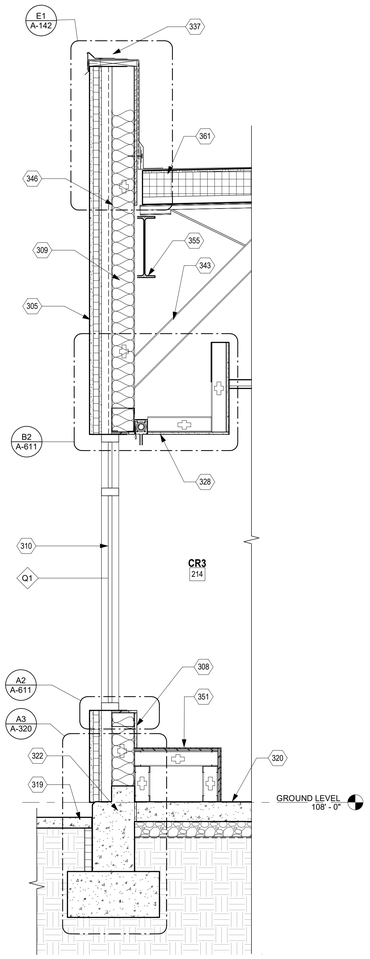
CHECKED BY:	

SHEET TITLE

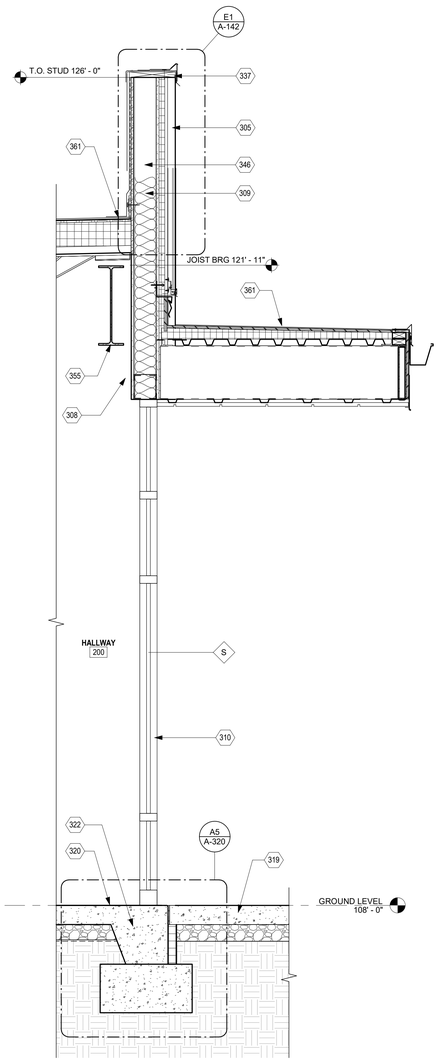
WALL SECTIONS

A-316

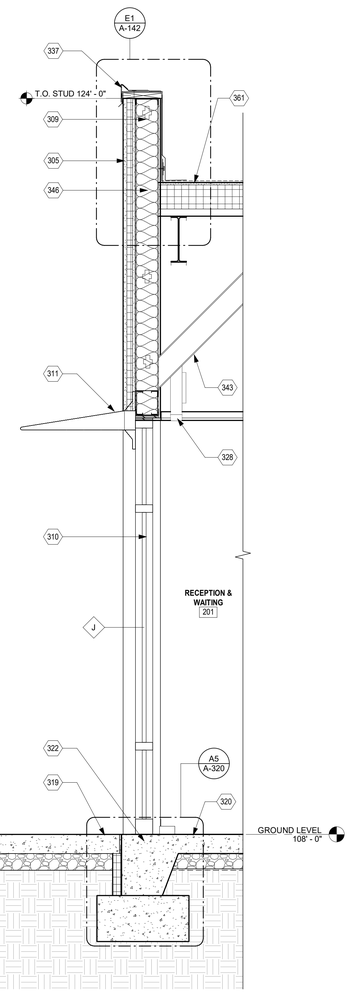
Farmington Preschool Academy



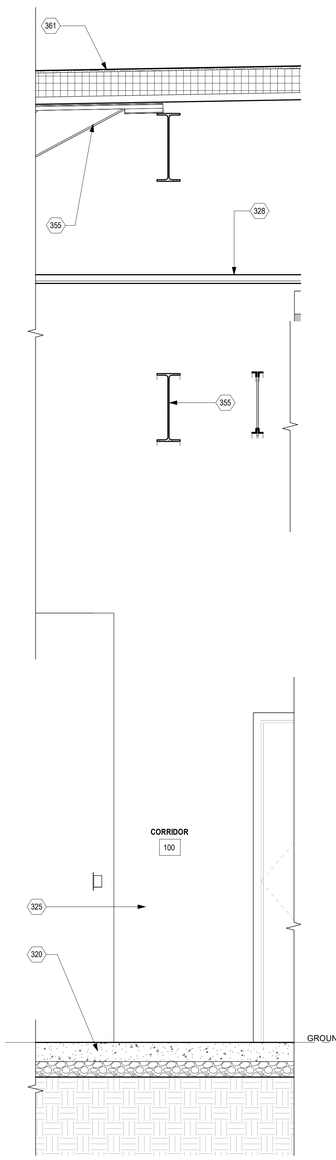
A1 WALL SECTION - CR 214
3/4" = 1'-0"



A2 WALL SECTION - HALLWAY 200
3/4" = 1'-0"



A3 WALL SECTION - RECEPTION & WAITING
3/4" = 1'-0"



A4 WALL SECTION - HALLWAY 200
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

B. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. BEARING / T.O WALL AND T.O.S ELEVATIONS ARE SHOWN REFERENCED TO 100'-0" (0'-0" F.F.) AND ARE NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATE WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.

D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
308	5/8" TYPE 'X' GYPSUM BOARD. TAPE, TEXTURE, PAINT.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
311	ALUMINUM SUN SHADE. SEE WINDOW DETAILS.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
322	CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL. SEE EXPOSED CONCRETE NOTES.
325	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
328	FINISH CEILING. SEE RCP.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
343	STRUCTURAL BRACING. SEE STRUCTURE.
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
351	BUILT-IN BENCH, TYPICAL AT CLASSROOMS. SEE ENLARGED PLANS AND ELEVATIONS.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.

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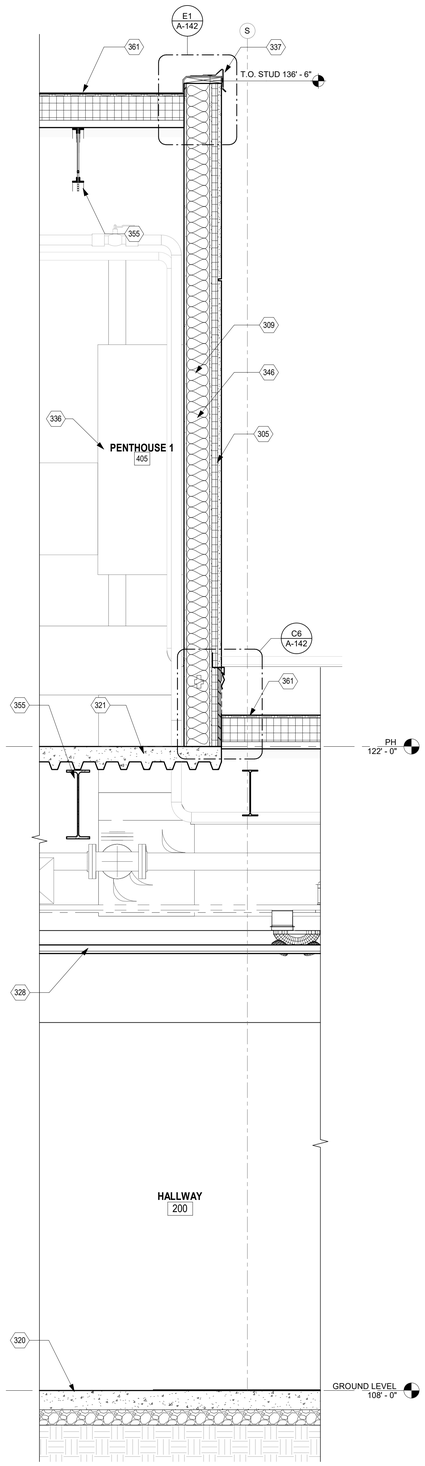
SHEET TITLE

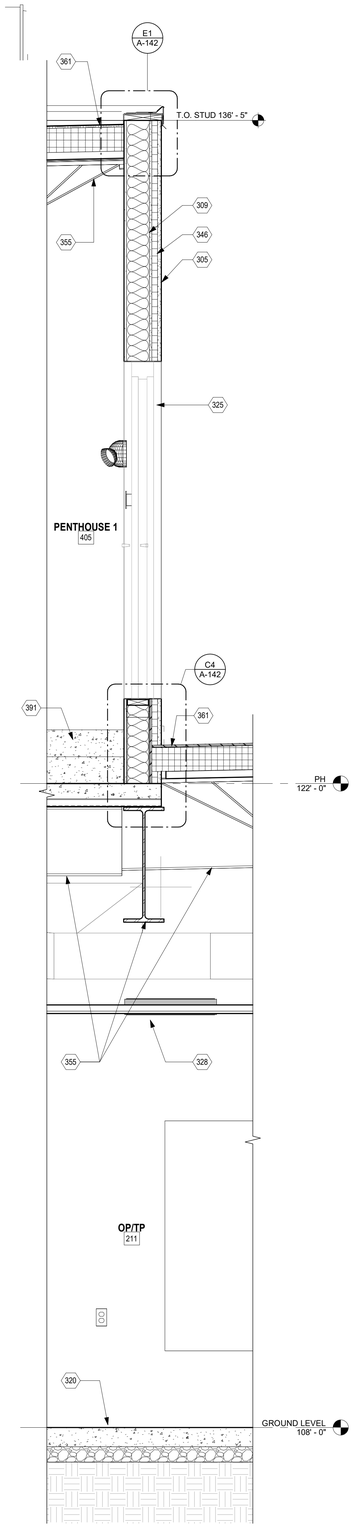
WALL SECTIONS

A-317

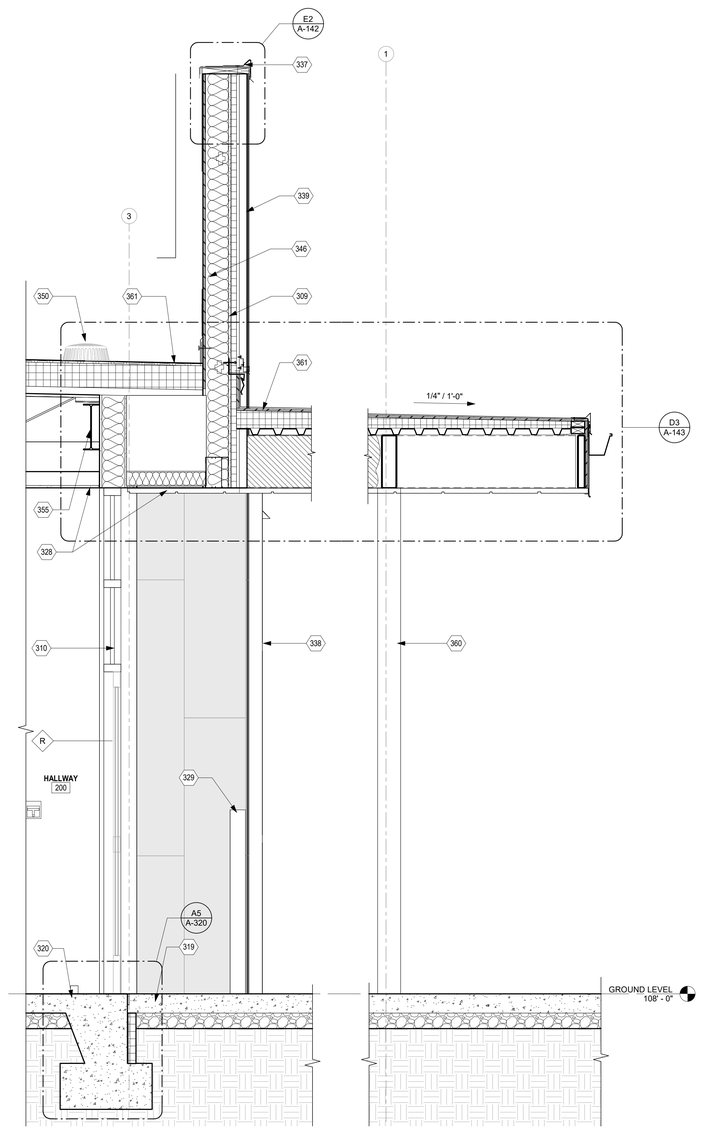
Farmington Preschool Academy



A1 PENTHOUSE 1 - WALL SECTION
3/4" = 1'-0"



A2 PENTHOUSE 1 - WALL SECTION DOOR
3/4" = 1'-0"



A4 WALL SECTION - WEST ENTRY
3/4" = 1'-0"

GENERAL NOTES

A. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPTMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.

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D. EXPANSION JOINTS SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.

E. FOR INTERIOR INFORMATION IN SPACES SEE ENLARGED PLANS AND ELEVATIONS AND ID SHEETS.

F. COORDINATE ALL OPENINGS WITH DOOR AND WINDOW DETAILS. SEE DOOR AND WINDOW SHETS FOR INFORMATION.

G. AT ALL EXTERIOR CMU WALLS FILL EMPTY CELLS WITH FOAM INSULATION.

H. APPLY DAMPPROOFING AT ALL BUILDING WALL FOOTING/FOUNDATIONS, PLANTERS, AND GRADE SIDE OF RETAINING WALLS.

I. ALL INTERIOR STEEL STUD PARTIONS SHALL BE BRACED ABOVE FINISH CEILING TO THE UNDERSIDE OF STEEL STRUCTURE AND OR STEEL DECK. NO EXCEPTIONS.

J. AT ALL STEEL TUBE MEMBERS WITHIN EXTERIOR INSULATED WALL ASSEMBLIES DRILL HOLES AND FILL MEMBERS WITH EXPANDING FOAM.

KEYNOTES

305	3 COAT STUCCO SYSTEM OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. SEE ELEVATIONS FOR COLOR AND FINISH.
309	6" METAL STUDS.
310	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
319	CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
320	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
321	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL.
325	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
328	FINISH CEILING. SEE RCP.
329	POST DOOR STOP. SEE SITE DETAILS.
336	MECHANICAL EQUIPMENT. SEE MECHANICAL.
337	METAL COPING CAP. SEE ROOF PLAN AND DETAILS.
338	METAL GUTTER AND DOWNSPOUT. SEE ROOF DETAILS AND SITE PLAN. FIELD COORDINATE LOCATION OF DOWNSPOUT WITH ARCHITECT PRIOR TO FABRICATION.
339	METAL PANEL SYSTEM AND MOISTURE BARRIER OVER CONTINUOUS INSULATION AND WEATHER BARRIER SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING. INSTALL PANELS ON KNIGHT WALL 3/4" VERTICAL C-GIRT, SPACE PER MANUFACTURERS REQUIREMENTS FOR ATTACHMENT OF PANELS AS SHOWN ON BUILDING ELEVATIONS.*
346	R-19 BATT INSULATION. TYPICAL AT ALL EXTERIOR STUD WALLS UNLESS NOTED OTHERWISE.
350	ROOF DRAIN AND OVERFLOW SCUPPER. SEE ROOF PLAN AND DETAILS.
355	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS. COLOR TO BE SELECTED BY ARCHITECT.
360	STEEL COLUMN. PAINT. SEE STRUCTURAL.
361	PVC MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
391	CONCRETE STEP. SEE STRUCTURAL.

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ARCHITECT

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CONSTRUCTION DOCUMENTS
MARCH 2024

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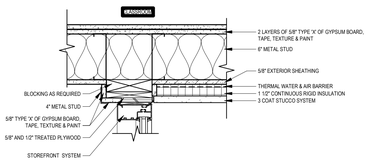
SHEET TITLE

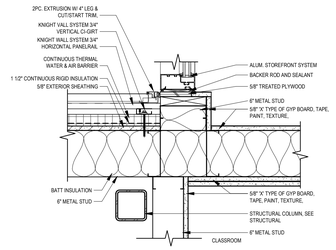
WALL SECTIONS

A-318

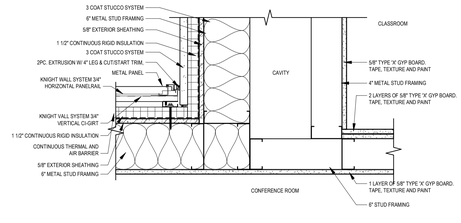
Farmington Preschool Academy



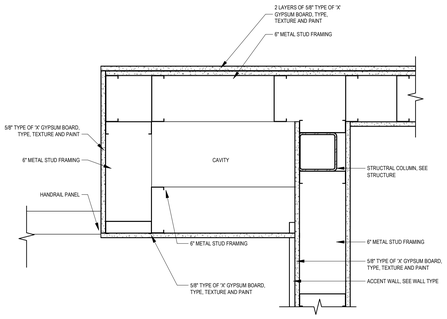
C1 STOREFRONT TO STUCCO
1 1/2" = 1'-0"



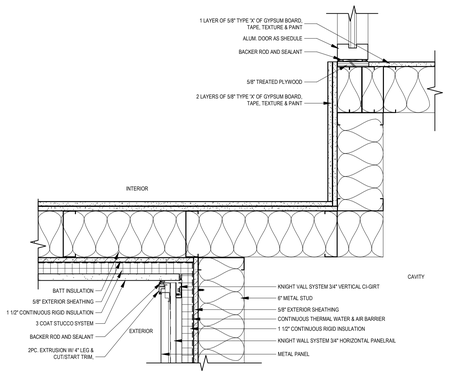
C2 STOREFRONT TO METAL PANEL
1 1/2" = 1'-0"



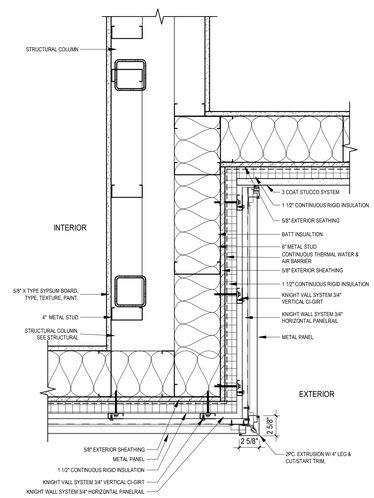
C3 STUCCO TO METAL PANEL AT CLASSROOM
1 1/2" = 1'-0"



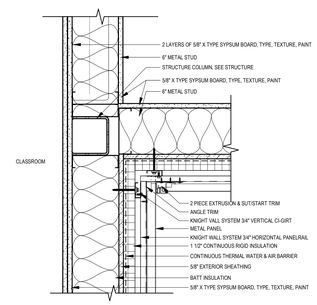
C4 HANDRAIL TO GYP. BOARD PLAN DETAIL
1 1/2" = 1'-0"



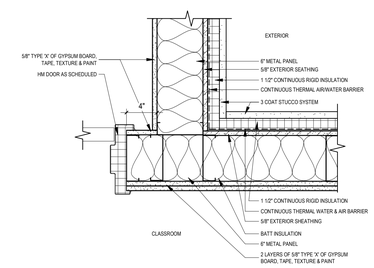
B1 PLAN DETAIL @ STUCCO TO METAL PANEL
1 1/2" = 1'-0"



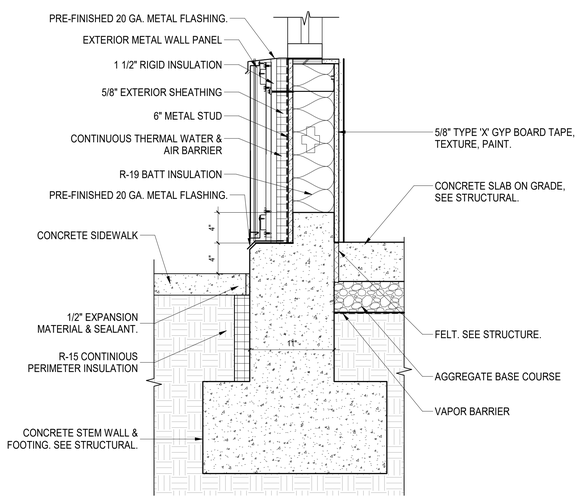
B2 METAL PANEL @ EXTERIOR CORNER DETAIL
1 1/2" = 1'-0"



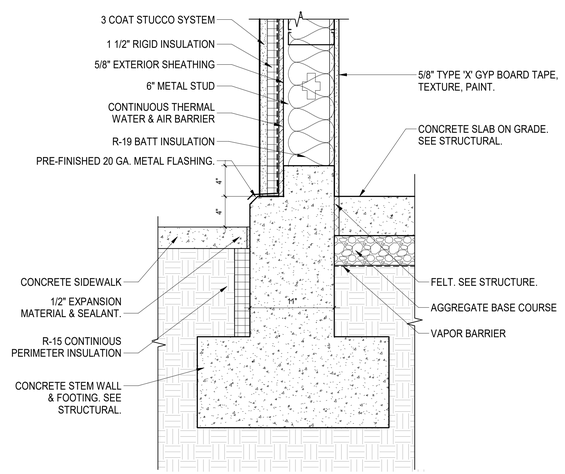
B3 METAL PANEL@ EXTERIOR INSIDE CORNER
1 1/2" = 1'-0"



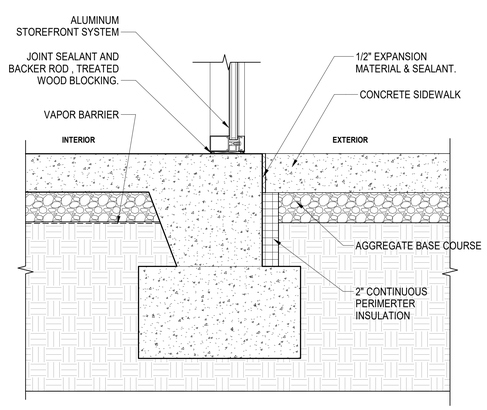
B4 INERTIOR HM DOOR @ 2 LAYERS OF GYP
1 1/2" = 1'-0"



A1 METAL WALL PANEL - FOUNDATION DETAIL
1 1/2" = 1'-0"



A3 STUCCO FOUNDATION DETAIL
1 1/2" = 1'-0"



A5 ENTRANCE FOUNDATION DETAIL
1 1/2" = 1'-0"

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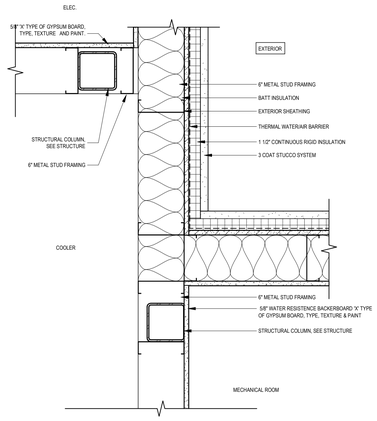
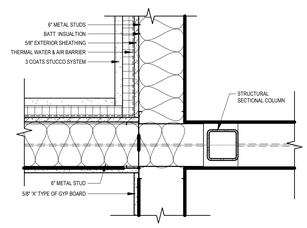
WALL DETAILS

A-320

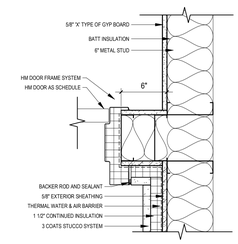
Farmington Preschool Academy



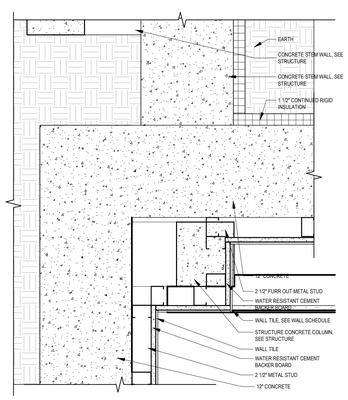
B1 COOLER AERA CONDITION AT UPPER LEVEL
1 1/2" = 1'-0"



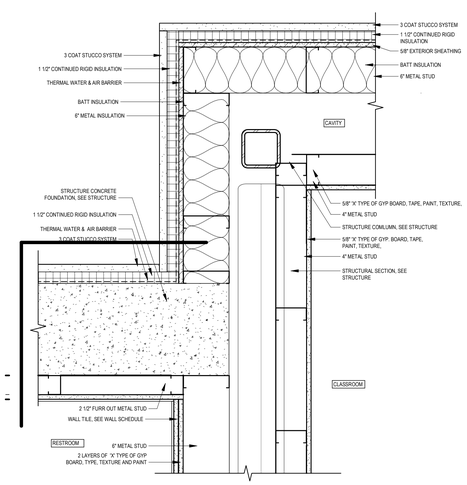
B2 STUCCO TO STUCCO - PENTHOUSE 2
1 1/2" = 1'-0"



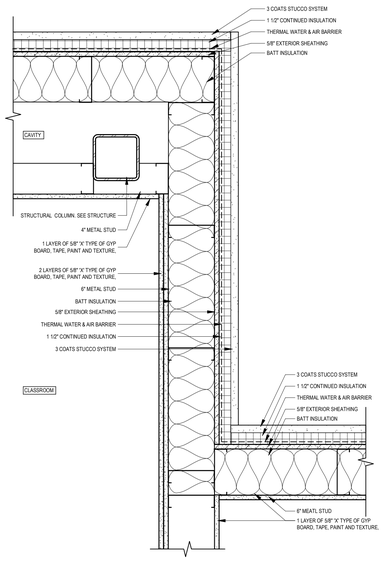
B3 HM DOOR TO STUCCO - PENTHOUSE 2
1 1/2" = 1'-0"



A1 CONCRETE RETAINING WALL @ LOWER LEVEL
1 1/2" = 1'-0"



A2 CONCRETE TO STUCCO - LOWER LEVEL
1 1/2" = 1'-0"



A3 STUCCO TO STUCCO - LOWER LEVEL
1 1/2" = 1'-0"

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No. 3088
LICENSED ARCHITECT

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SHEET TITLE

WALL DETAILS

A-321

Farmington Preschool Academy

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

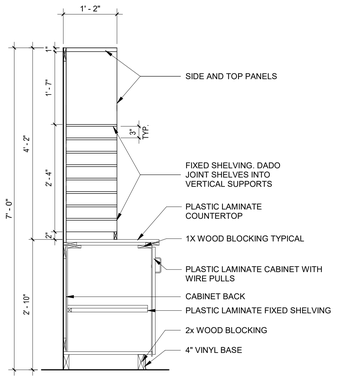
F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

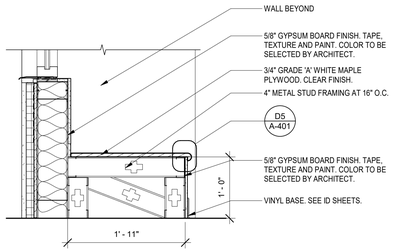
H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

I. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYP. BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

J. SEE A-600 SHEETS FOR PARTITIONS, DOOR AND STOREFRONT SCHEDULES AND ELEVATIONS.

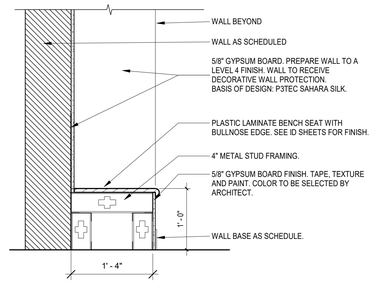


D1 MAILBOXES
3/4" = 1'-0"

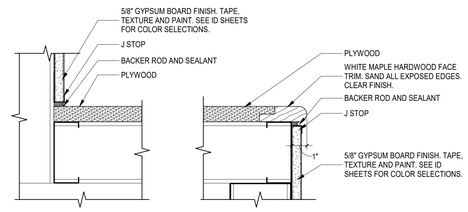


D2 BUILT-IN BENCH
1" = 1'-0"

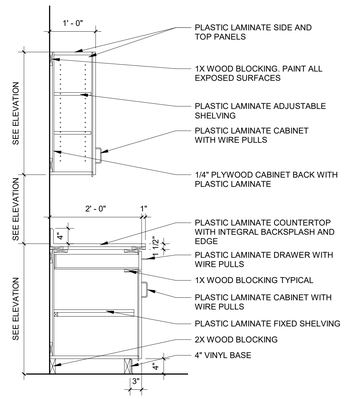
TYPICAL AT ALL CLASSROOMS UNLESS NOTED OTHERWISE.



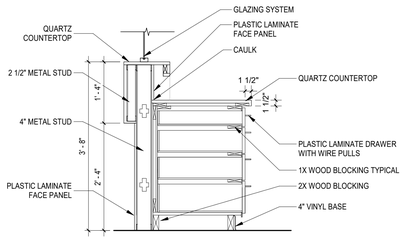
D4 HALLWAY BENCH
1" = 1'-0"



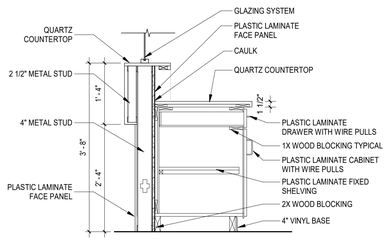
D5 BENCH TOP DETAIL
3" = 1'-0"



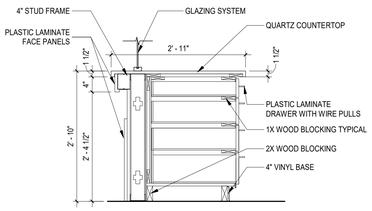
B1 UPPER AND LOWERS CASEWORK
3/4" = 1'-0"



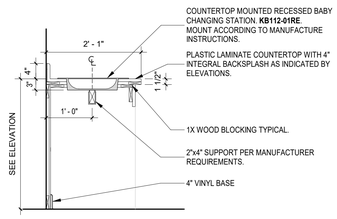
B2 DESK - TRANSACTION, TYP.
3/4" = 1'-0"



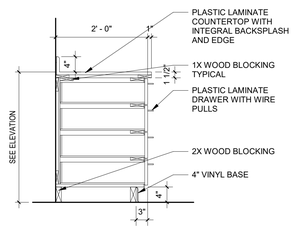
B3 DESK - TRANSACTION , TYP.
3/4" = 1'-0"



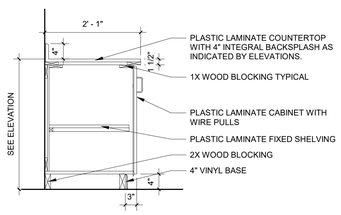
B4 DESK - LOWER, TYP.
3/4" = 1'-0"



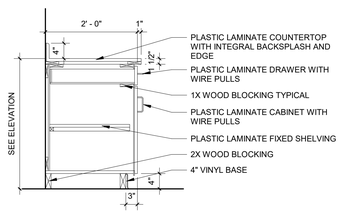
B5 CASEWORK - BABY CHANGING
3/4" = 1'-0"



A1 CASEWORK - LOWER DRAWERS
3/4" = 1'-0"

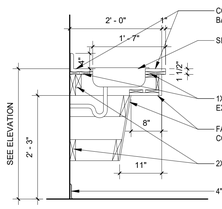


A2 CASEWORK - LOWER CABINET
3/4" = 1'-0"



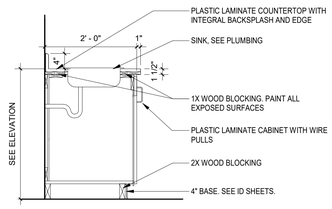
A3 CASEWORK - CABINET + DRAWER
3/4" = 1'-0"

NOTE:
PROVIDE TREATED PLYWOOD AT CASEWORK WITH SINK.
SEE SPECIFICATIONS FOR DETAILS.



A4 IN-COUNTER SINK
3/4" = 1'-0"

NOTE:
PROVIDE TREATED PLYWOOD AT CASEWORK WITH SINK.
SEE SPECIFICATIONS FOR DETAILS.



A5 IN-COUNTER SINK - RR
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

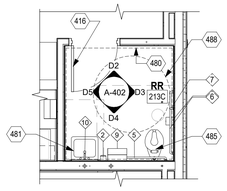
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE

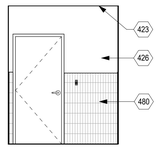
ENLARGED PLANS & ELEVATIONS - CASEWORK DETAILS

A-401

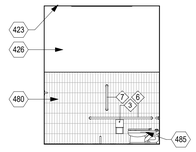
Farmington Preschool Academy



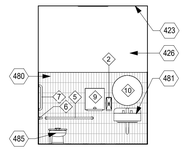
D1 CHILD RESTROOM - RR 213C
1/4" = 1'-0"



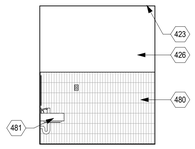
D2 CHILD RR - SIDE 1
1/4" = 1'-0"



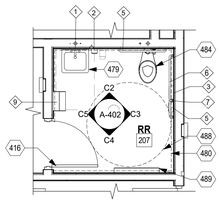
D3 CHILD RR- FIXTURE
1/4" = 1'-0"



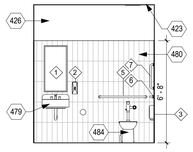
D4 CHILD RR - SIDE 2
1/4" = 1'-0"



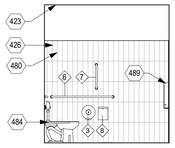
D5 CHILD RR - BACK
1/4" = 1'-0"



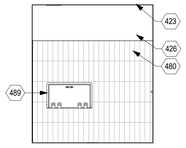
C1 ADULT RR - RR 112A, 207, 222, 312A
1/4" = 1'-0"
ADULT RESTROOMS



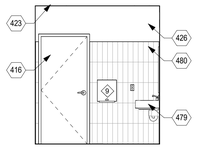
C2 TYP. RESTROOM - SIDE 1
1/4" = 1'-0"



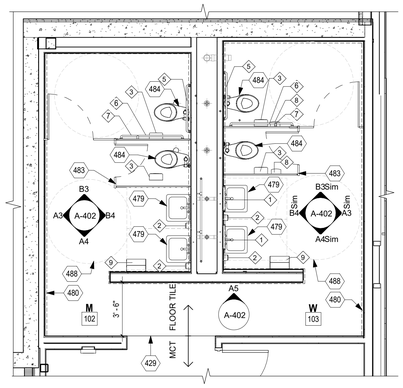
C3 TYP. RESTROOM - FIXTURE
1/4" = 1'-0"



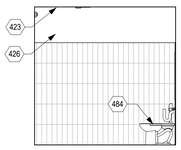
C4 TYP. RESTROOM - SIDE 2
1/4" = 1'-0"



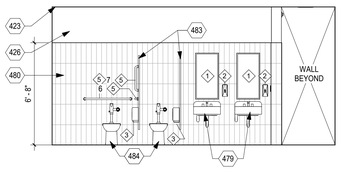
C5 TYP. RESTROOM - BACK
1/4" = 1'-0"



A1 ENLARGED PLAN - RR 102 & RR 103
1/4" = 1'-0"
ADULT RESTROOMS

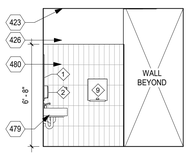


B3 RR 102 - NORTH
1/4" = 1'-0"

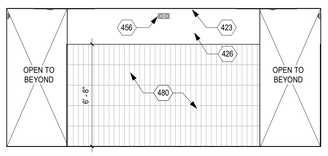


B4 RR 102 - EAST
1/4" = 1'-0"

A3 RR 102 - WEST
1/4" = 1'-0"



A4 RR 102 - SOUTH
1/4" = 1'-0"



A5 VESTIBULE RR 102 & 103 - NORTH
1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

DOOR TYPE
(FOR INFORMATION SEE SHEET A-601)

INTERIOR ELEVATION

CASEWORK DETAILS

TOILET ACCESSORY LEGEND

MARK	ACCESSORIES
1	18" X 36" MIRROR.
2	LIQUID SOAP DISPENSER, MOUNT 5" ABOVE SINK. OWNER FURNISHED, CONTRACTOR INSTALLED.
3	TOILET PAPER DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALLED.
4	WALL MOUNTED BABY CHANGING STATION. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
5	36" GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
6	42" GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
7	18" VERTICAL GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
8	SANITARY NAPKIN DISPOSAL. MOUNT 28" A.F.F.
9	MANUAL PAPER TOWEL DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALLED.
10	ROUND LED MIRROR. SEE ELEVATION FOR MOUNTING HEIGHT.
11	COUNTERTOP BABY CHANGING STATION. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

KEYNOTES

416	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423	FINISH CEILING. SEE RCP.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
429	TRANSITION STRIP. SEE ID SHEETS.
456	LIGHT FIXTURE. SEE ELECTRICAL.
479	LAVATORY FIXTURE. MOUNT ALL LAVATORIES TO AN ACCESSIBLE HEIGHT. SEE PLUMBING.
480	WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE. SEE ID SHEETS FOR MATERIAL FINISH AND PATTERN.
481	LAVATORY FIXTURE CHILDREN'S HEIGHT. SEE SHEET G-003 FOR ACCESSIBILITY GUIDELINES.
483	TOILET PARTITION.
484	FLOOR MOUNTED TOILET. SEE PLUMBING.
485	FLOOR MOUNTED TOILET CHILDREN'S HEIGHT. SEE SHEET G-003 FOR ACCESSIBILITY GUIDELINES.
488	ACCESSIBLE TURNING CIRCLE. SEE ACCESSIBILITY GUIDELINES.
489	WALL MOUNTED BABY CHANGING STATION. SEE ELEVATIONS FOR MOUNTING HEIGHT.

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03/21/2024
SANJAY I. ENGINEER
No. 3088
REGISTERED PROFESSIONAL ENGINEER

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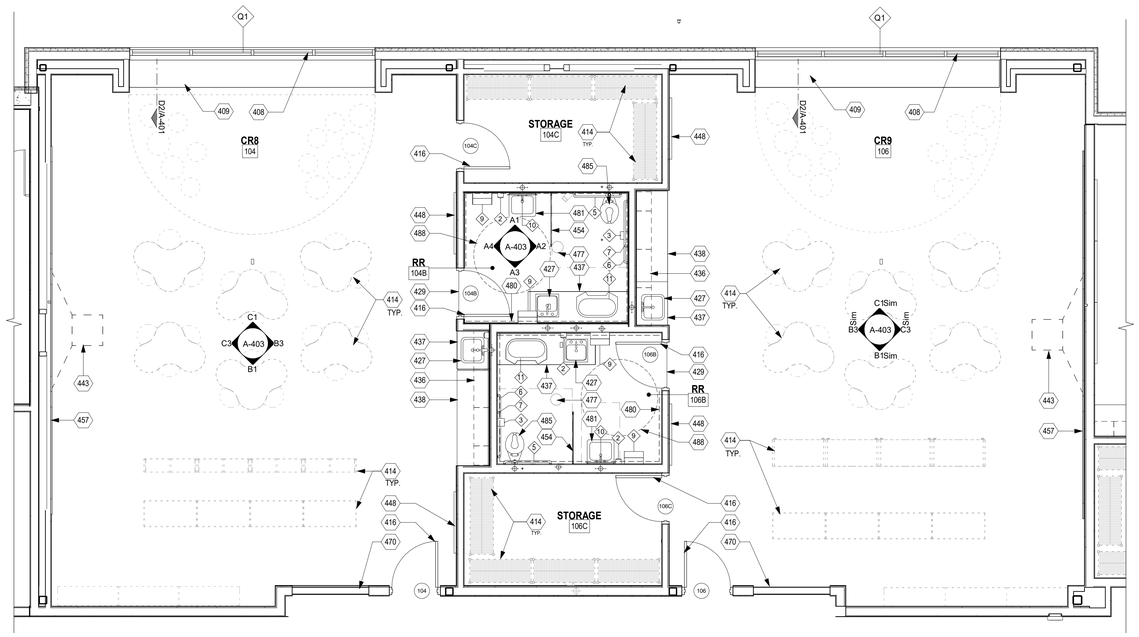
ENLARGED PLANS & ELEVATIONS - RESTROOMS

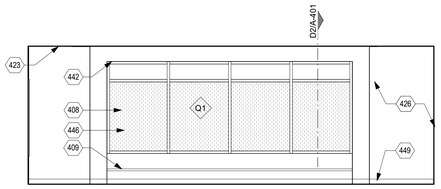
A-402

Farmington Preschool Academy

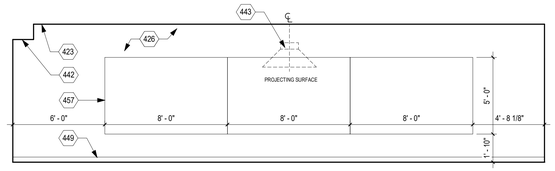


D1 ENLARGED PLAN - TYPICAL CLASSROOM
1/4" = 1'-0"

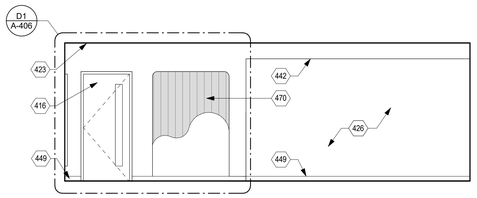
TYPICAL OF CLASSROOMS: 104, 106, 107, 109, 111, 113, 114, 116, 209, 210, 211, 212, 214, 218, 220, 221, 304, 306, 307, 309, 311, 313, 314 & 316.
PLUS ASSOCIATED STORAGE ROOMS AND RESTROOMS INSIDE EACH CLASSROOM



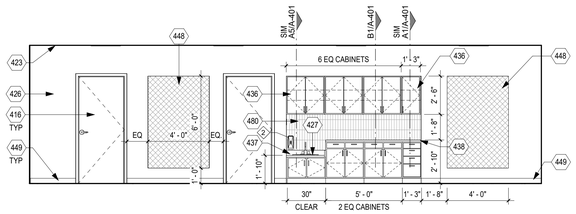
C1 TYP. CLASSROOM - WINDOW WALL
1/4" = 1'-0"



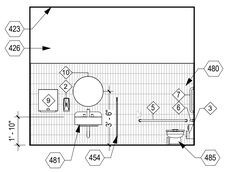
C3 TYP. CLASSROOM - INSTRUCTION WALL
1/4" = 1'-0"



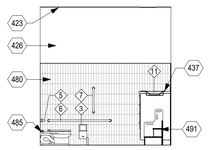
B1 TYP. CLASSROOM - ENTRY WALL
1/4" = 1'-0"



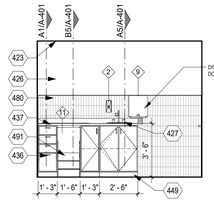
B3 TYP. CLASSROOM - SIDE WALL
1/4" = 1'-0"



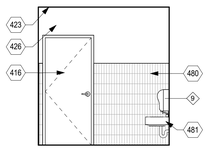
A1 FIXTURE WALL
1/4" = 1'-0"



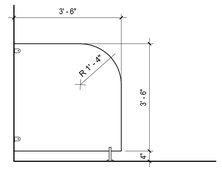
A2 SIDE WALL 1
1/4" = 1'-0"



A3 CHANGING
1/4" = 1'-0"



A4 SIDE WALL 2
1/4" = 1'-0"



MOUNTING HARDWARE TO FOLLOW MANUFACTURE'S REQUIREMENTS

A5 RR - PRIVACY PARTITION
1/2" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref, A101, 1 Ref, 1 Ref, 1 Ref	INTERIOR ELEVATION
1 Ref	CASEWORK DETAILS

TOILET ACCESSORY LEGEND

MARK	ACCESSORIES
1	18" X 36" MIRROR.
2	LIQUID SOAP DISPENSER. MOUNT 5" ABOVE SINK. OWNER FURNISHED, CONTRACTOR INSTALLED.
3	TOILET PAPER DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALLED.
4	WALL MOUNTED BABY CHANGING STATION. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
5	36" GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
6	42" GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
7	18" VERTICAL GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
8	SANITARY NAPKIN DISPOSAL. MOUNT 28" A.F.F.
9	MANUAL PAPER TOWEL DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALLED.
10	ROUND LED MIRROR. SEE ELEVATION FOR MOUNTING HEIGHT.
11	COUNTERTOP BABY CHANGING STATION. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

KEYNOTES

408	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
409	BUILT-IN BENCH. SEE DETAILS.
414	DASHED FURNITURE NOT IN CONTRACT.
416	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423	FINISH CEILING. SEE RCP.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
427	IN-COUNTER SINK. SEE PLUMBING.
429	TRANSITION STRIP. SEE ID SHEETS.
436	PLASTIC LAMINATE CASEWORK.
437	PLASTIC LAMINATE COUNTERTOP WITH 4" BACK SPLASH.
438	PLASTIC LAMINATE COUNTERTOP.
442	GYPSUM BOARD SOFFIT, REFER TO CEILING PLAN.
443	ROUGH-IN FOR WALL MOUNTED SHORT THROW PROJECTOR. SEE ELECTRICAL AND SPECIAL SYSTEMS.
446	HATCH INDICATES SECURITY FILM ON INSIDE FACE OF EXTERIOR WINDOW. SEE STOREFRONT FRAME AND BUILDING ELEVATIONS.
448	TACK BOARD VISUAL DISPLAY SURFACE WITH TRIM AT ALL EXPOSED EDGES.
449	WALL BASE. SEE FINISH SCHEDULE.
454	TOILET PRIVACY PARTITION. SEE ELEVATIONS AND DIMENSIONS ON DETAIL A5/A-403.
457	MARKER BOARD VISUAL DISPLAY SURFACE. SHOWN ON ELEVATIONS.
470	POLYCARBONATE TRANSLUCENT "WINDOW" INTO CLASSROOM. GYPSUM BOARD AND FRY REGLET TO FINISH EDGES. PANEL SANDWICHED BETWEEN SHAPED GYPSUM BOARD WITH VINYL DECAL APPLIED TO FACE. SEE NOTE 428. TYPICAL AT ALL CLASSROOMS UNLESS OTHERWISE NOTED. ARCHITECT TO PROVIDE LEGEND FOR DECAL COLORS AND SHAPES.
477	FLOOR DRAIN. SEE PLUMBING. SLOPE CONCRETE TO DRAIN, SEE STRUCTURAL.
480	WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE. SEE ID SHEETS FOR MATERIAL FINISH AND PATTERN.
481	LAVATORY FIXTURE CHILDREN'S HEIGHT. SEE SHEET G-003 FOR ACCESSIBILTY GUIDELINES.
485	FLOOR MOUNTED TOILET CHILDREN'S HEIGHT. SEE SHEET G-003 FOR ACCESSIBILTY GUIDELINES.
488	ACCESSIBLE TURNING CIRCLE, SEE ACCESSIBILITY GUIDELINES.
491	STAIR STEP UNIT. BASIS OF DESIGN: KAPLAN SETP 2 WASH.

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STAMPED DRAWING

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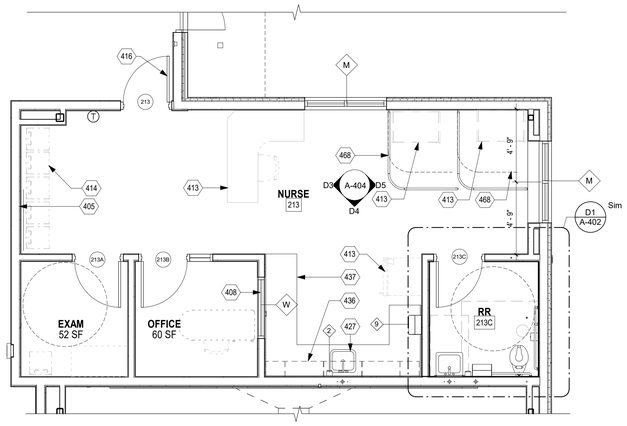
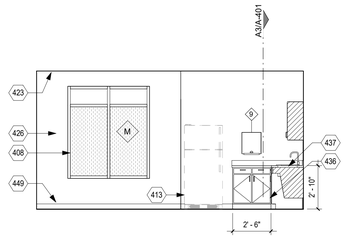
ENLARGED PLANS & ELEVATIONS - CLASSROOMS

A-403

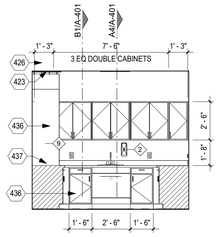
Farmington Preschool Academy



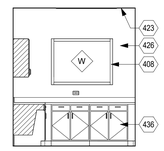
D1 ENLARGED PLAN - NURSE
1/4" = 1'-0"



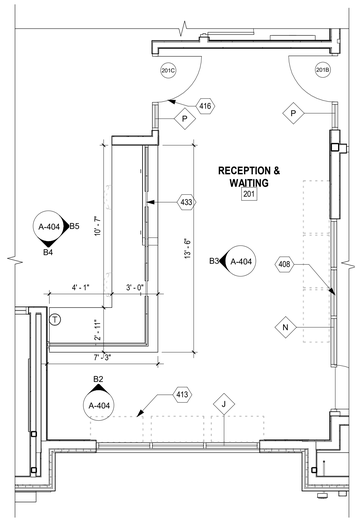
D5 NURSE - EAST
1/4" = 1'-0"



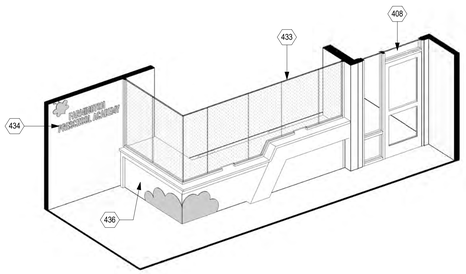
D4 NURSE - SOUTH
1/4" = 1'-0"



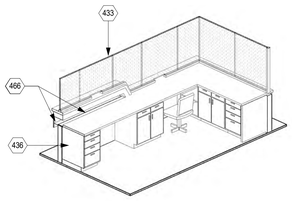
D3 NURSE - WEST
1/4" = 1'-0"



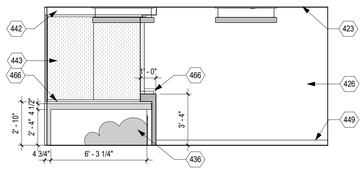
B1 ENLARGED PLAN - RECEPTION
1/4" = 1'-0"



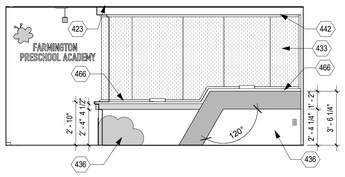
C1 RECEP. DESK - VIEW 1



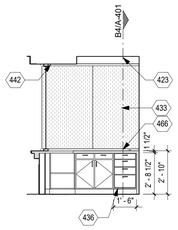
C2 RECEP. DESK - VIEW 2



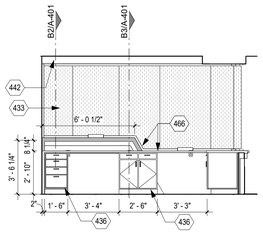
B2 ELEVATION - SIDE 1
1/4" = 1'-0"



B3 ELEVATION - FRONT
1/4" = 1'-0"



B4 ELEVATION - SIDE 2
1/4" = 1'-0"



B5 ELEVATION - BACK
1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

XX — DOOR TYPE (FOR INFORMATION SEE SHEET A-601)

1 Ref / A101 — INTERIOR ELEVATION

1 Ref — CASEWORK DETAILS

TOILET ACCESSORY LEGEND

MARK	ACCESSORIES
1	18" X 36" MIRROR.
2	LIQUID SOAP DISPENSER. MOUNT 5" ABOVE SINK. OWNER FURNISHED, CONTRACTOR INSTALLED.
3	TOILET PAPER DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALLED.
4	WALL MOUNTED BABY CHANGING STATION. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
5	36" GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
6	42" GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
7	18" VERTICAL GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
8	SANITARY NAPKIN DISPOSAL. MOUNT 28" A.F.F.
9	MANUAL PAPER TOWEL DISPENSER. OWNER FURNISHED, CONTRACTOR INSTALLED.
10	ROUND LED MIRROR. SEE ELEVATION FOR MOUNTING HEIGHT.
11	COUNTERTOP BABY CHANGING STATION. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

KEYNOTES

405	4'-0" HIGH TACK BOARD, SEE ELEVATION FOR WIDTH AND MOUNTING HEIGHT.
408	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
413	DASHED EQUIPMENT NOT IN CONTRACT. PROVIDE ROUGH-INS AS REQUIRED. SEE MECHANICAL, ELECTRICAL, AND PLUMBING.
414	DASHED FURNITURE NOT IN CONTRACT.
416	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423	FINISH CEILING. SEE RCP.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
427	IN-COUNTER SINK. SEE PLUMBING.
433	GLAZING SYSTEM WITH PASSTHROUGH OPENINGS. SEE ELEVATIONS. APPLY SECURITY LAMINATE ON THE INSIDE FACE OF GLASS.
434	6" PRE-FINISHED ALUMINUM LETTERS AND SCHOOL LOGO. PROVIDE WALL BLOCKING. FINAL TEXT AND FINISH TO BE APPROVED BY ARCHITECT AND OWNER.
436	PLASTIC LAMINATE CASEWORK.
437	PLASTIC LAMINATE COUNTERTOP WITH 4" BACK SPLASH.
442	GYPSUM BOARD SOFFIT. REFER TO CEILING PLAN.
443	ROUGH-IN FOR WALL MOUNTED SHORT THROW PROJECTOR. SEE ELECTRICAL AND SPECIAL SYSTEMS.
449	WALL BASE. SEE FINISH SCHEDULE.
466	QUARTZ COUNTERTOP.
468	CEILING MOUNTED PRIVACY CURTAIN AND CURVED TRACK.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE

ENLARGED PLANS & ELEVATIONS - ADMINISTRATION

A-404

Farmington Preschool Academy

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

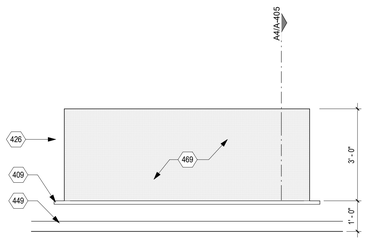
XX — DOOR TYPE (FOR INFORMATION SEE SHEET A-601)

1 Ref / A101 — INTERIOR ELEVATION

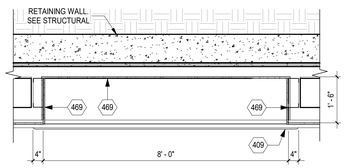
1 Ref — CASEWORK DETAILS

KEYNOTES

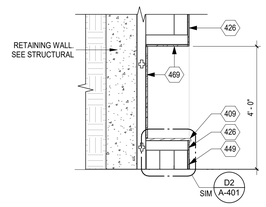
408	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
409	BUILT-IN BENCH. SEE DETAILS.
410	CONCRETE STEP. SEE STRUCTURAL AND SHEET A-503 FOR DETAILS.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
449	WALL BASE. SEE FINISH SCHEDULE.
450	STEEL HANDRAIL/GUARDRAIL. PAINT. COLOR TO BE SELECTED BY ARCHITECT. SEE SHEET A-503 FOR DETAILS.
455	SUSPENDED ACOUSTICAL PANELS. COLOR TO BE SELECTED BY ARCHITECT. SEE RCP5 FOR HEIGHT AND SHEET A-405 FOR DIMENSIONS.
456	LIGHT FIXTURE. SEE ELECTRICAL.
469	DECORATIVE WALL PROTECTION. PREPARE WALL TO A LEVEL 4 FINISH. BASIS OF DESIGN:POTEC SAHARA SILK. COLORS TO BE SELECTED BY THE ARCHITECT.



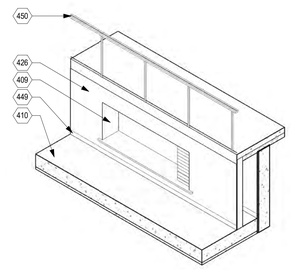
C1 ELEVATION - DEEP SET BENCH
1/2" = 1'-0"



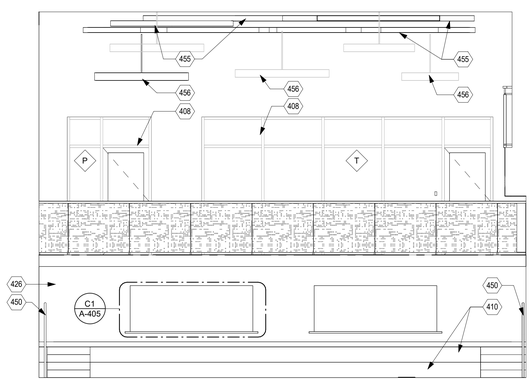
C2 PLAN - DEEP SET BENCH
1/2" = 1'-0"



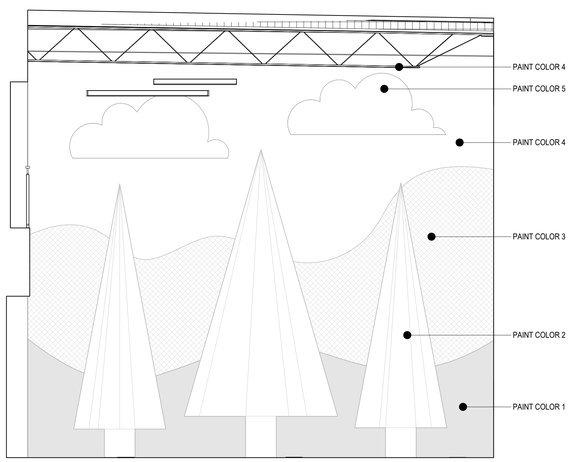
C4 SECTION - WALL NICHE
1/2" = 1'-0"



C5 DEEP SET BENCH AT MULTIPURPOSE



A1 MULTIPURPOSE - WEST
1/4" = 1'-0"



NOTE:
1. FIELD COORDINATE DRYWALL CONTROL JOINTS.
2. LEVEL 5 DRYWALL FINISH ON THIS WALL.

A3 MULTIPURPOSE - EAST
1/4" = 1'-0"

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MARCH 2024

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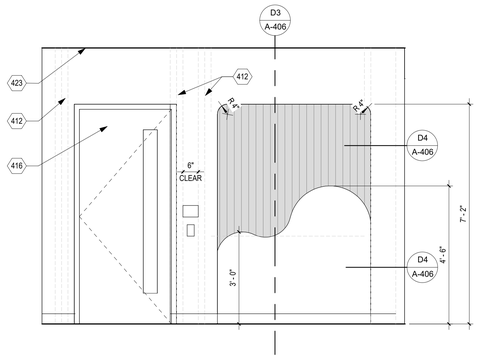
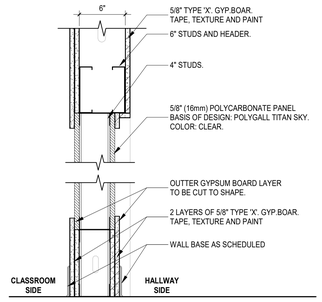
ENLARGED PLANS & ELEVATIONS - MULTIPURPOSE

A-405

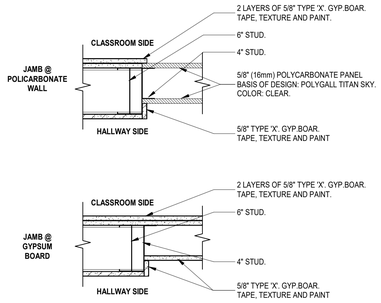
Farmington Preschool Academy



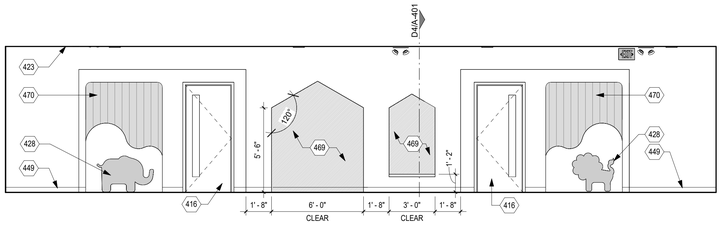
D1 TYP. CLASSROOM ENTRY - CLASSROOM SIDE
1/2" = 1'-0"



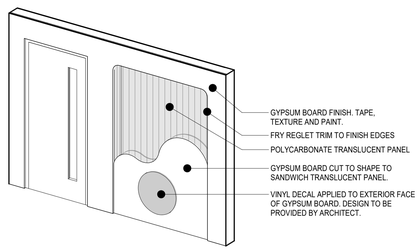
D3 CLASSROOM ENTRY SECTION
1 1/2" = 1'-0"



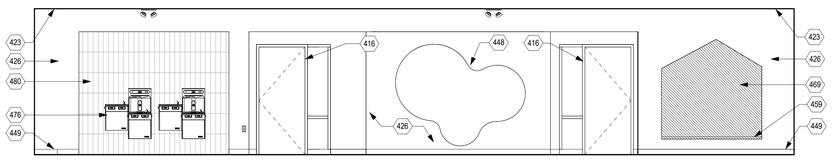
D4 CLASSROOM ENTRY JAMBS
1 1/2" = 1'-0"



C1 HALLWAY - GROUND LEVEL 'B'
1/4" = 1'-0"

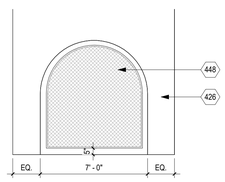


D5 TYP. CLASSROOM ENTRY - HALLWAY SIDE

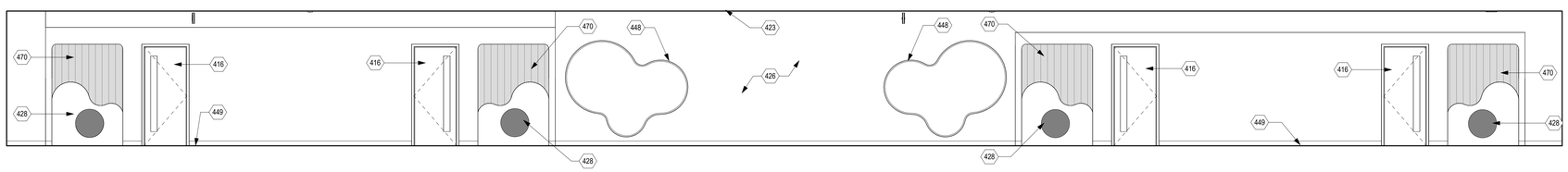


B1 HALLWAY @ WORK ROOM & SPECIAL EDUCATION
1/4" = 1'-0"

UPPER AND LOWER LEVEL ELEVATIONS SIMILIAR



B4 TACK WALL - BREAKOUT
1/4" = 1'-0"



A1 TYPICAL CORRIDOR AT CLASSROOMS
1/4" = 1'-0"

TYPICAL AT ALL CLASSROOMS UNLESS NOTED OTHERWISE.
NOT TYPICAL @ SPECIAL EDUCATION 110 AND 310.

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H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101 / 1 Ref / 1 Ref / 1 Ref	INTERIOR ELEVATION
1 Ref	CASEWORK DETAILS

KEYNOTES

412	DASHED LINES REPRESENT STUD FRAMINJG. MANTAIN 6" MIN. CLEAR BETWEEN STUDS FOR MOUNTING ELECTRICAL AND DOOR ACCESS DEVICES.
416	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423	FINISH CEILING. SEE RCP.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
428	VINYL WALL COVERING. CUSTOME COLOR AND SHAPE. VECTOR FILE TO BE PROVIDED DURING CONSTRUCTION. TYPICAL OF ALL UNPAINTED ELEMENTS.
448	TACK BOARD VISUAL DISPLAY SURFACE WITH TRIM AT ALL EXPOSED EDGES.
449	WALL BASE. SEE FINISH SCHEDULE.
459	PLASTIC LAMINATE BENCH SEAT WITH BULLNOSE EDGE. SEE ID SHEETS FOR FINISH.
469	DECORATIVE WALL PROTECTION. PREPARE WALL TO A LEVEL 4 FINISH. BASIS OF DESIGN:P3TEC SAHARA SILK. COLORS TO BE SELECTED BY THE ARCHITECT.
470	POLYCARBONATE TRANSLUCENT "WINDOW" INTO CLASSROOM. GYPSUM BOARD AND FRY REGLET TO FINISH EDGES. PANEL SANDWICHED BETWEEN SHAPED GYPSUM BOARD WITH VINYL DECAL APPLIED TO FACE. SEE NOTE 428. TYPICAL AT ALL CLASSROOMS UNLESS OTHERWISE NOTED. ARCHITECT TO PROVIDE LEGEND FOR DECAL COLORS AND SHAPES.
476	DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE PLUMBING.
480	WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE. SEE ID SHEETS FOR MATERIAL FINISH AND PATTERN.

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

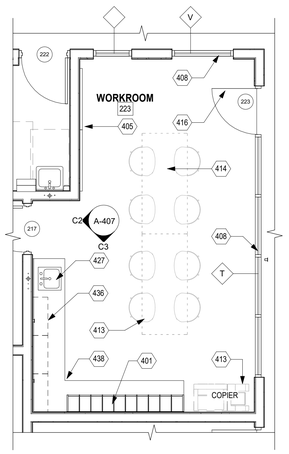
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DD
CHECKED BY:	

SHEET TITLE

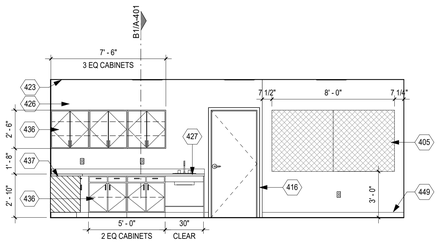
ENLARGED PLANS & ELEVATIONS - CORRIDOR

A-406

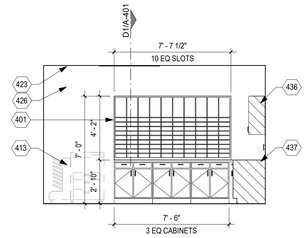
Farmington Preschool Academy



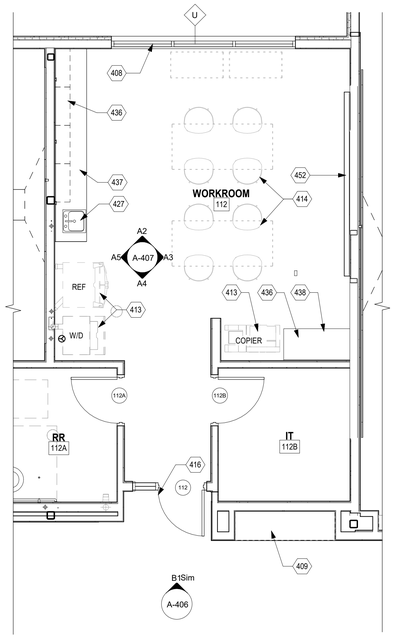
C1 ENLARGED PLAN - WORKROOM 222
1/4" = 1'-0"



C2 WORKROOM 222 - WEST
1/4" = 1'-0"



C3 WORKROOM 222 - SOUTH
1/4" = 1'-0"



A1 ENLARGED PLAN - WORKROOM 111
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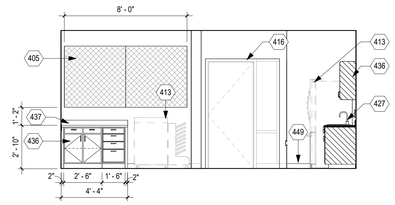

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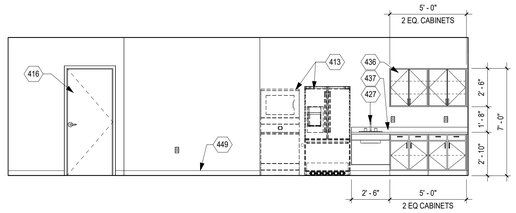
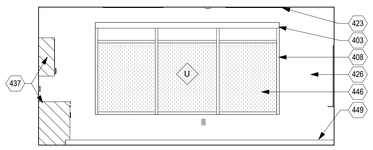
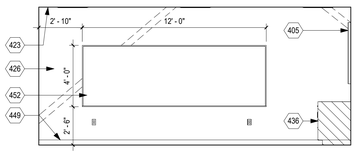
1/4" = 1'-0"



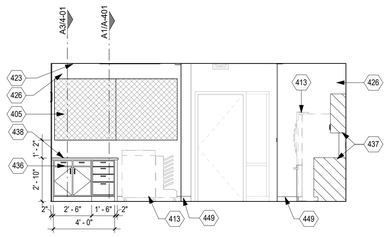
B2 WORKROOM 312 - WEST
1/4" = 1'-0"



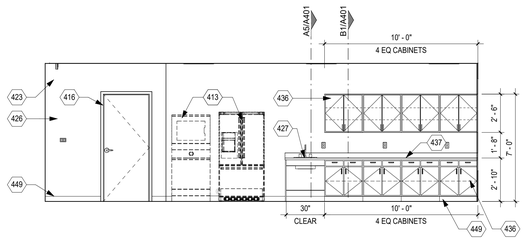
A2 WORKROOM 111 - NORTH
1/4" = 1'-0"



A3 WORKROOM 111 - EAST
1/4" = 1'-0"



A4 WORKROOM 111 - SOUTH
1/4" = 1'-0"



A5 WORKROOM 111 - WEST
1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.

B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.

G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

XX — DOOR TYPE (FOR INFORMATION SEE SHEET A-601)

1 Ref / A101 — INTERIOR ELEVATION

1 Ref — CASEWORK DETAILS

KEYNOTES

401	BUILT-IN MAILBOX. SEE ENLARGED ELEVATIONS AND CASEWORK DETAILS.
403	MANUAL ROLLER SHADE, MOUNT TO STOREFRONT FRAME.
405	4'-0" HIGH TACK BOARD, SEE ELEVATION FOR WIDTH AND MOUNTING HEIGHT.
408	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
409	BUILT-IN BENCH. SEE DETAILS.
413	DASHED EQUIPMENT NOT IN CONTRACT. PROVIDE ROUGH-INS AS REQUIRED. SEE MECHANICAL, ELECTRICAL, AND PLUMBING.
414	DASHED FURNITURE NOT IN CONTRACT.
416	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423	FINISH CEILING. SEE RCP.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
427	IN-COUNTER SINK. SEE PLUMBING.
436	PLASTIC LAMINATE CASEWORK.
437	PLASTIC LAMINATE COUNTERTOP WITH 4" BACK SPLASH.
438	PLASTIC LAMINATE COUNTERTOP.
446	HATCH INDICATES SECURITY FILM ON INSIDE FACE OF EXTERIOR WINDOW. SEE STOREFRONT FRAME AND BUILDING ELEVATIONS.
449	WALL BASE. SEE FINISH SCHEDULE.
452	4'-0" HIGH DRY ERASE STAFF BOARD, SEE ELEVATION FOR WIDTH AND MOUNTING HEIGHT.

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
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ARCHITECT

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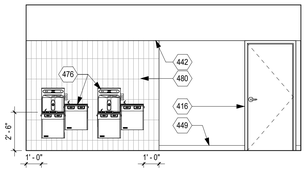
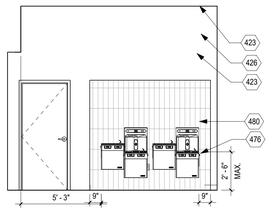
ENLARGED PLANS & ELEVATIONS - WORKROOM

A-407

Farmington Preschool Academy



E1 DF - HALLWAY 200
1/4" = 1'-0"



D2 DF - MULTIPURPOSE
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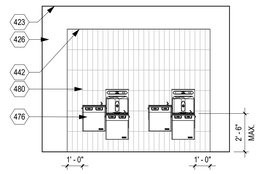
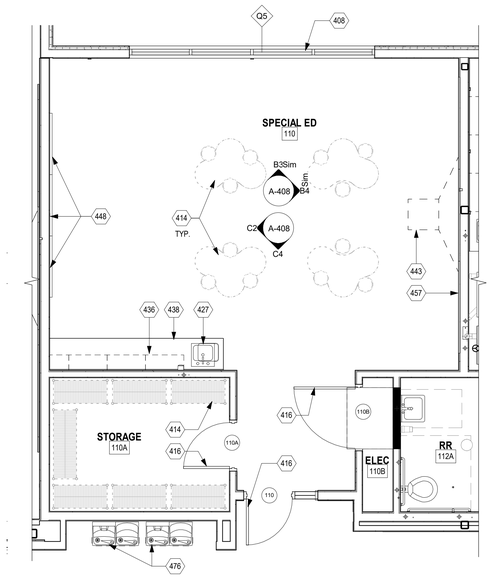
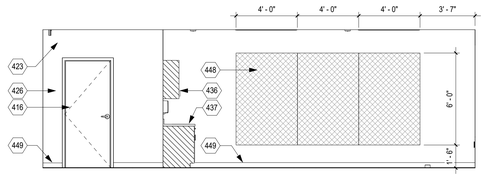


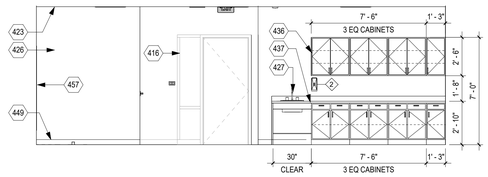
D4 DF - HALLWAY 100 & 300
1/4" = 1'-0"



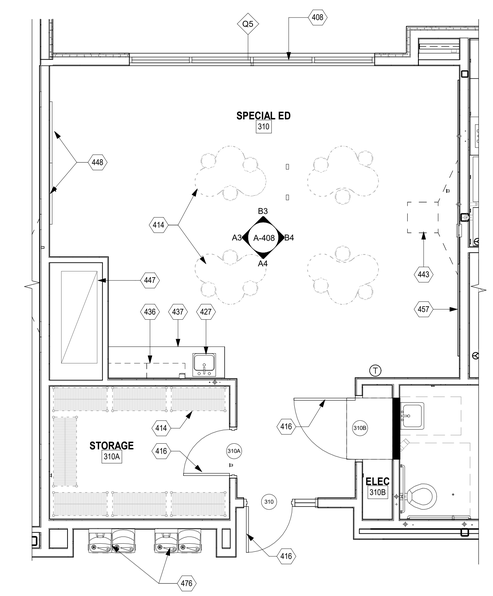
C1 ENGLARDED PLAN - SPECIAL ED 110
1/4" = 1'-0"



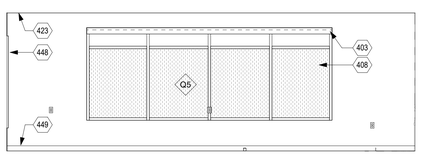
C2 SPECIAL ED 110 - WEST
1/4" = 1'-0"



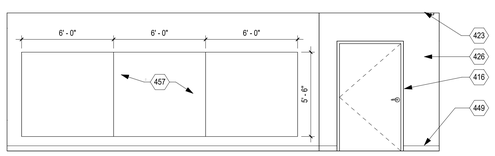
C4 SPECIAL ED 110 - SOUTH
1/4" = 1'-0"



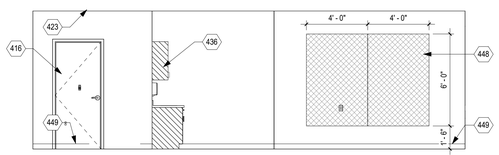
A1 ENLARGED PLAN - SPECIAL ED 310
1/4" = 1'-0"



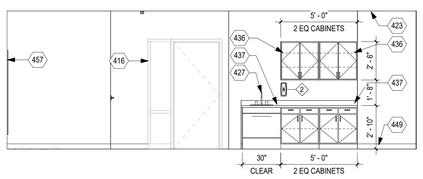
B3 SPECIAL ED 310 - NORTH
1/4" = 1'-0"



B4 SPECIAL ED - 310 - EAST
1/4" = 1'-0"



A3 SPECIAL ED 310 - WEST
1/4" = 1'-0"



A4 SPECIAL ED 310 - SOUTH
1/4" = 1'-0"

GENERAL NOTES

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B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.

C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR/ BASE, MATERIAL INFORMATION.

D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.

E. SEE *2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE* GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.

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G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.

H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

403	MANUAL ROLLER SHADE, MOUNT TO STOREFRONT FRAME.
408	ALUMINUM STOREFRONT SYSTEM. SEE FRAME TYPES, DOOR AND WINDOW SCHEDULES.
414	DASHED FURNITURE NOT IN CONTRACT.
416	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423	FINISH CEILING. SEE RCP.
426	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
427	IN-COUNTER SINK. SEE PLUMBING.
436	PLASTIC LAMINATE CASEWORK.
437	PLASTIC LAMINATE COUNTERTOP WITH 4" BACK SPLASH.
438	PLASTIC LAMINATE COUNTERTOP.
442	GYPSUM BOARD SOFFIT, REFER TO CEILING PLAN.
443	ROUGH-IN FOR WALL MOUNTED SHORT THROW PROJECTOR. SEE ELECTRICAL AND SPECIAL SYSTEMS.
447	CHASE FOR HVAC DUCT. COORDINATE CLEAR OPENING REQUIREMENTS WITH MECHANICAL AND STRUCTURAL, PRIOR TO FABRICATION. PROVIDE FIREBLOKING ACCURATELY FITTED TO CLOSE OPENINGS AT EACH FLOOR LEVEL, CEILINGS, AND ROOF.
448	TACK BOARD VISUAL DISPLAY SURFACE WITH TRIM AT ALL EXPOSED EDGES.
449	WALL BASE. SEE FINISH SCHEDULE.
457	MARKER BOARD VISUAL DISPLAY SURFACE. SHOWN ON ELEVATIONS.
476	DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE PLUMBING.
480	WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE. SEE ID SHEETS FOR MATERIAL FINISH AND PATTERN.

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SANJAY I. ENGINEER
No. 3088
REGISTERED PROFESSIONAL ENGINEER

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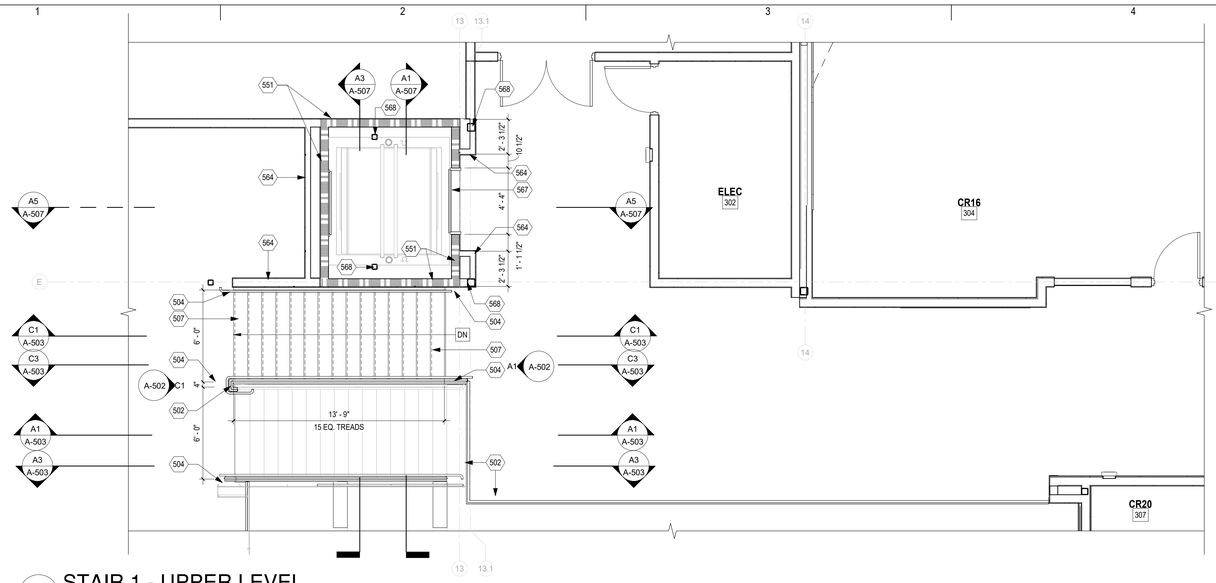
SHEET TITLE

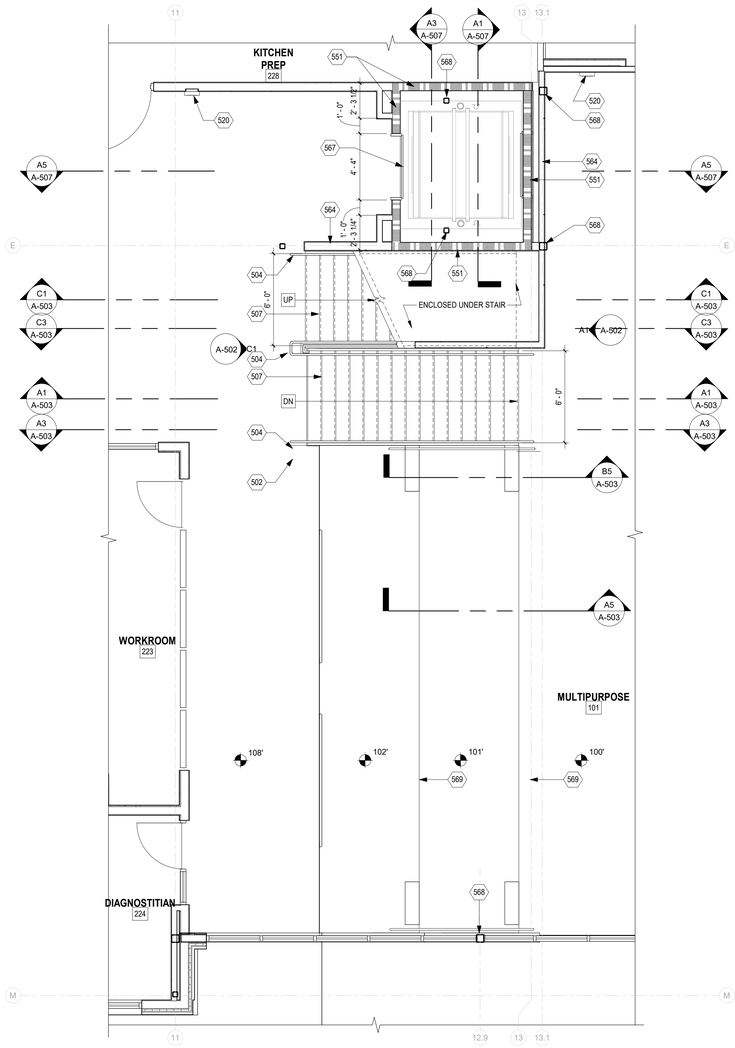
ENLARGED PLANS & ELEVATIONS - SPECIAL EDUCATION

A-408

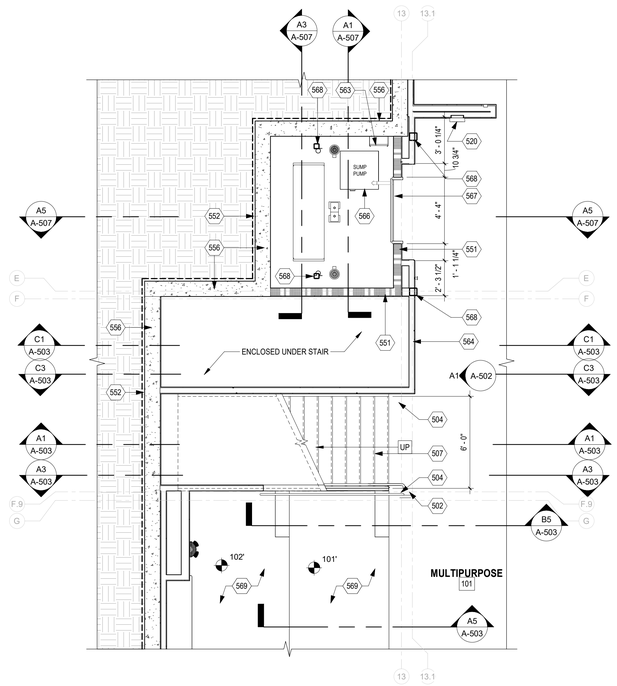
Farmington Preschool Academy



D1 STAIR 1 - UPPER LEVEL
1/4" = 1'-0"



A1 STAIR 1 - GROUND LEVEL
1/4" = 1'-0"



A4 STAIR 1 - LOWER LEVEL
1/4" = 1'-0"

GENERAL NOTES

A. ALL EXPOSED STEEL TO BE PAINTED, COLOR(S) TO BE DETERMINED BY ARCHITED.

B. ALL WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH. FILL ALL VOIDS, GRIND MARKS, ETC. PRIOR TO PAINTING.

C. GRIND EDGES OF STEEL PLATE SMOOTH.

D. EASE ALL EDGES OF STEEL PLATE SMOOTH.

E. OPENING DIMENSIONS SHOWN ARE NORMAL. RAILS SHALL BE FABRICATED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THRUOGH OPENINGS.

F. CONNECT ALL HANDRAILS AND GUARDRAILS ELEMENTS W/ CONTINUOUS 1/8" FILLET WIELDS UNLESS NOTED OTHERWISE.

G. FABRICATE ELEMENTS IN SHOP IN THE LARGETS SECTIONS FEASIBLE FOR FIELD INSTALLATION.

H. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF GUARDRAIL AND HANDRAIL.

I. ENCLOSE ALL LANDINGS, TYPICAL AT ALL STAIR LOCATIONS. U.N.O.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
X	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

502	PERFORATED METAL PANEL GUARDRAIL SEE DETAIL ON SHEET A-506.*
504	1-1/2" O.D. STEEL PIPE HAND RAIL. MOUNT 2'-10" A.F.F. PAINT. COLOR TO SELECTED BY ARCHITECT.
507	CONCRETE FILLED STEEL PAN TREADS. FOR FINISHES SEE ID SHEETS FOR FINISH SCHEDULE AND STRUCTURAL FOR INFORMATION.
520	SEMI-RECESSED FIRE EXTINGUISHER CABINET. RATED AS REQUIRED. SEE PARTITION TYPES. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
551	1-HOUR RATED SHAFT WALL. SEE PARTITION SCHEDULE.
552	BELOW GRADE DAMPPROOFING.
556	CONCRETE RETAINING WALL AND FOOTING. SEE STRUCTURAL.
563	STEEL PIT LADDER.
564	STEEL STUD PARTITION. SEE PARTITION SCHEDULE.
566	ELEVATOR SUMP PIT. GC TO VERIFY REQUIRED LOCATION AND DIMENSION WITH ELEVATOR MANUFACTURER.
567	ELEVATOR ENTRANCE.
568	STEEL COLUMN. SEE STRUCTURAL.
569	RAISED CONCRETE SEAT. SEE DETAIL A5/A503.

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SHEET TITLE

STAIR 1 - PLANS

A-501

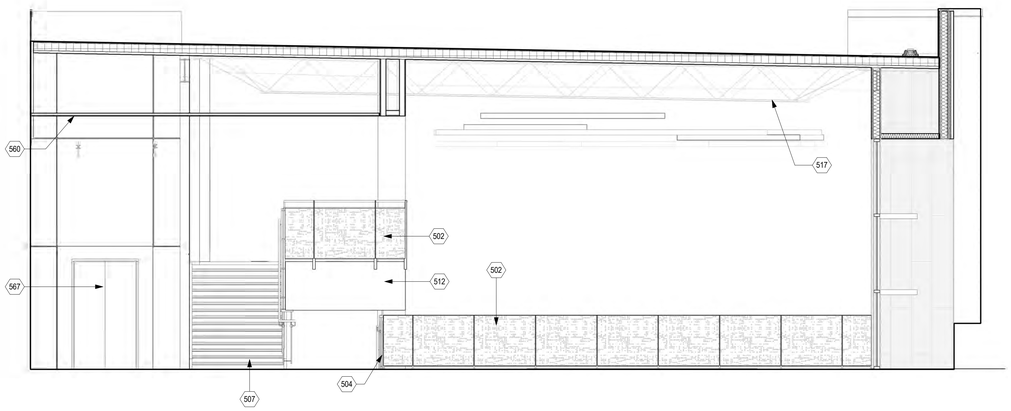
Farmington Preschool Academy

SYMBOL LEGEND

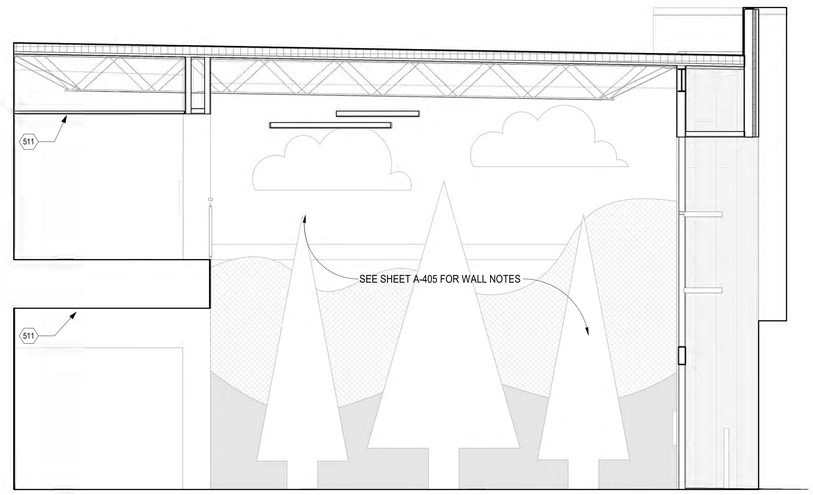
XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

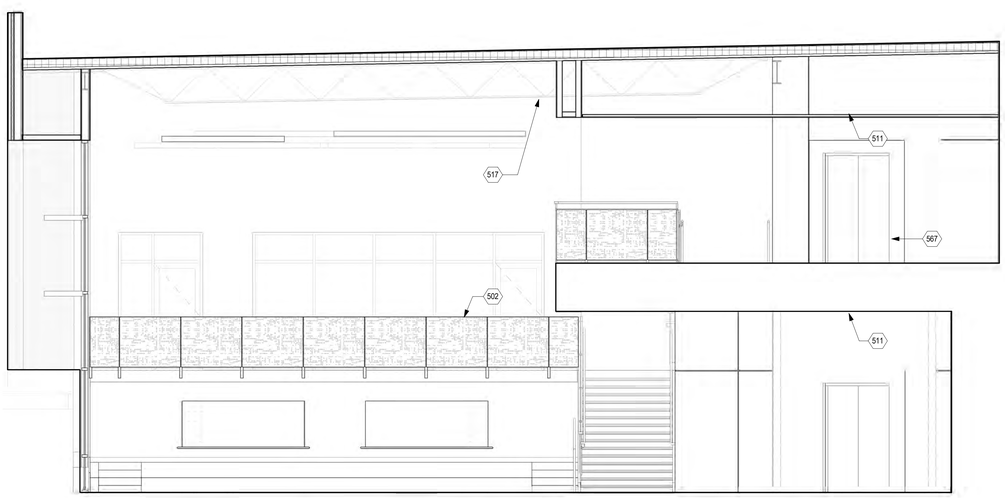
502	PERFORATED METAL PANEL GUARDRAIL SEE DETAIL ON SHEET A-506.*
504	1-1/2" O.D. STEEL PIPE HAND RAIL. MOUNT 2'-10" A.F.F. PAINT. COLOR TO SELECTED BY ARCHITECT.
507	CONCRETE FILLED STEEL PAN TREADS. FOR FINISHES SEE ID SHEETS FOR FINISH SCHEDULE AND STRUCTURAL FOR INFORMATION.
511	FINISH CEILING. SEE RCP
512	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
517	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS.
560	FINISH CEILING. SEE RCP
567	ELEVATOR ENTRANCE.



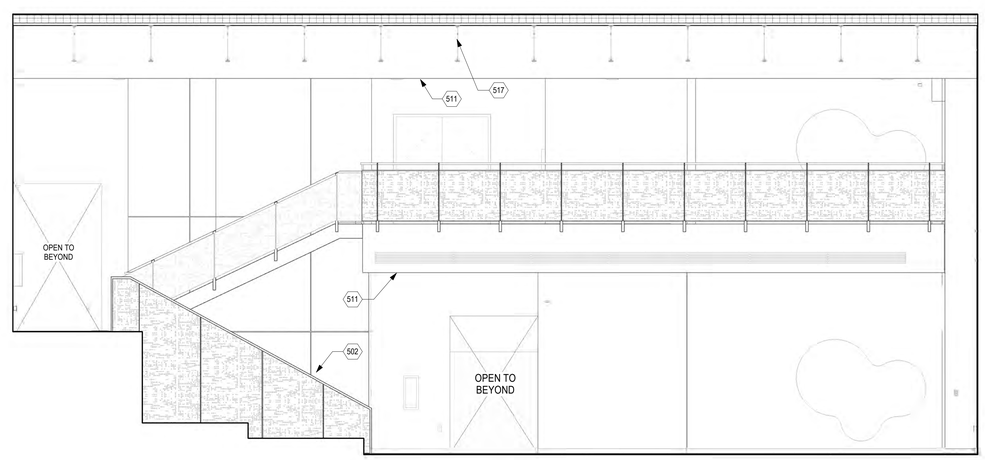
C1 STAIR 1 - GROUND LEVEL ELEVATION
1/4" = 1'-0"



C4 MULTIPURPOSE - EAST Copy 1
1/4" = 1'-0"



A1 STAIR 1 - LOWER LEVEL ELEVATION
1/4" = 1'-0"



A4 MULTIPURPOSE - NORTH
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS
MARCH 2024

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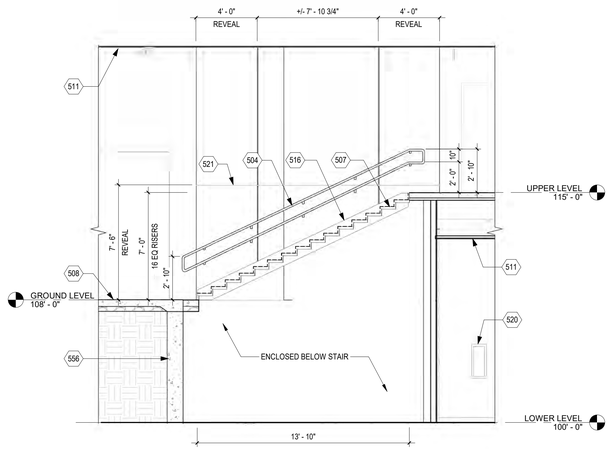
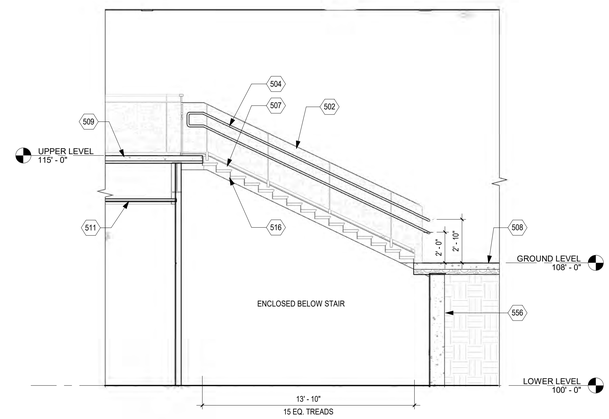
SHEET TITLE
STAIR 1 - ELEVATIONS

A-502

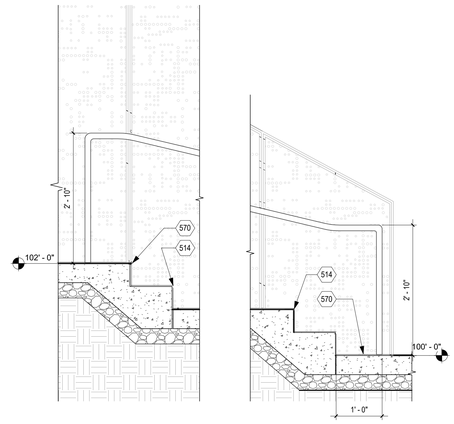
Farmington Preschool Academy



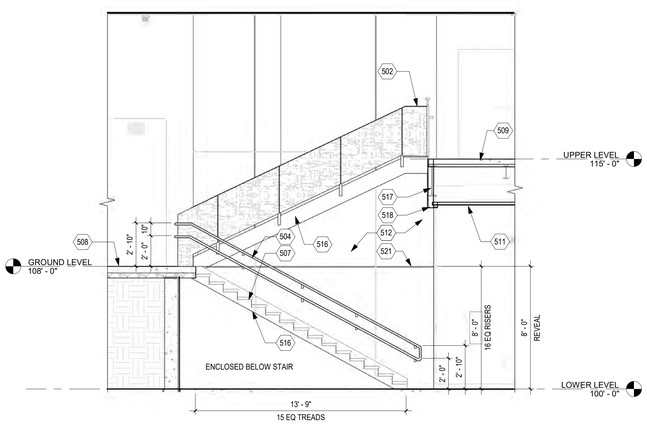
C1 SECTION 3 - STAIR
1/4" = 1'-0"



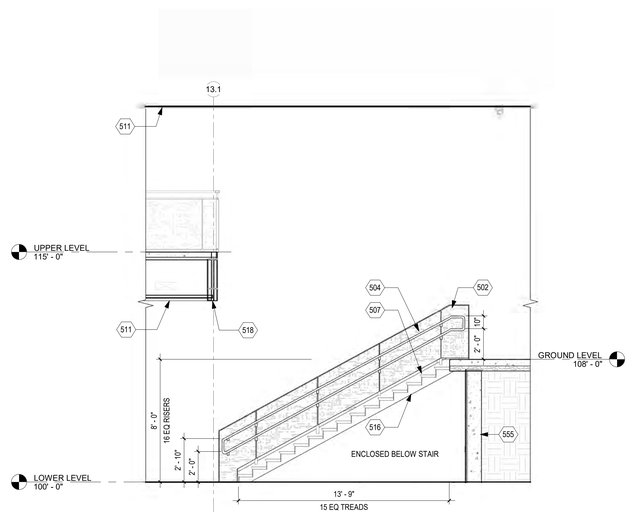
C3 SECTION 6 - STAIR
1/4" = 1'-0"



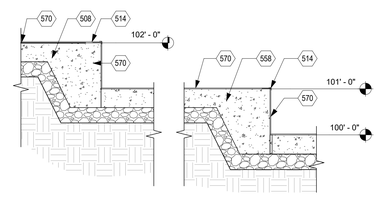
B5 STAIRS AT MULTIPURPOSE
3/4" = 1'-0"



A1 STAIR 1 - SECTION
1/4" = 1'-0"



A3 SECTION 7 - STAIR
1/4" = 1'-0"



A5 STEP SLAB AT MULTIPURPOSE
3/4" = 1'-0"

GENERAL NOTES

A. ALL EXPOSED STEEL TO BE PAINTED, COLOR(S) TO BE DETERMINED BY ARCHITED.

B. ALL WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH. FILL ALL VOIDS, GRIND MARKS, ETC. PRIOR TO PAINTING.

C. GRIND EDGES OF STEEL PLATE SMOOTH.

D. EASE ALL EDGES OF STEEL PLATE SMOOTH.

E. OPENING DIMENSIONS SHOWN ARE NORMAL. RAILS SHALL BE FABRICATED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THRUOGH OPENINGS.

F. CONNECT ALL HANDRAILS AND GUARDRAILS ELEMENTS W/ CONTINUOUS 1/8" FILLET WIELDS UNLESS NOTED OTHERWISE.

G. FABRICATE ELEMENTS IN SHOP IN THE LARGETS SECTIONS FEASIBLE FOR FIELD INSTALLATION.

H. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF GUARDRAIL AND HANDRAIL.

I. ENCLOSE ALL LANDINGS, TYPICAL AT ALL STAIR LOCATIONS. U.N.O.

KEYNOTES

502	PERFORATED METAL PANEL GUARDRAIL SEE DETAIL ON SHEET A-506.*
504	1-1/2" O.D. STEEL PIPE HAND RAIL. MOUNT 2'-10" A.F.F. PAINT. COLOR TO SELECTED BY ARCHITECT.
507	CONCRETE FILLED STEEL PAN TREADS. FOR FINISHES SEE ID SHEETS FOR FINISH SCHEDULE AND STRUCTURAL FOR INFORMATION.
508	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
509	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL. PAINT ALL EXPOSED METAL DECK. COLOR TO BE SELECTED BY ARCHITECT.
511	FINISH CEILING. SEE RCP
512	GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
514	ALUMINUM EDGE PROFILE AT CONCRETE STEP. SEE ID SHEET FOR FLOOR FINISH AND TRIM.
516	STEEL STAIR STRINGER. SEE STRUCTURAL. GRIND ALL WELDS SMOOTH. SEE ID SHEETS FOR FINISH SCHEDULE. COLOR TO BE SELECTED BY ARCHITECT.
517	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS.
518	STUD BULKHEAD FRAMING. SEE RCP.
520	SEMI-RECESSED FIRE EXTINGUISHER CABINET. RATED AS REQUIRED. SEE PARTITION TYPES. COORDINATE FINAL LOCATION WITH FIRE MARSHAL.
521	FRY REGLET OR EQUAL. DRYWALL REVEAL MOLDING 1/4" DEPTH BY 1/4" WIDTH. FURNISH AND SUPPLY CONTINUOUS WOOD BLOCKING BEHIND REVEAL LOCATIONS.
555	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL. PAINT ALL EXPOSED METAL DECK. COLOR TO BE SELECTED BY ARCHITECT.
556	CONCRETE RETAINING WALL AND FOOTING. SEE STRUCTURAL.
558	ELEVATOR GUIDERAILS.
570	FLOOR FINISH. SEE ID SHEETS.

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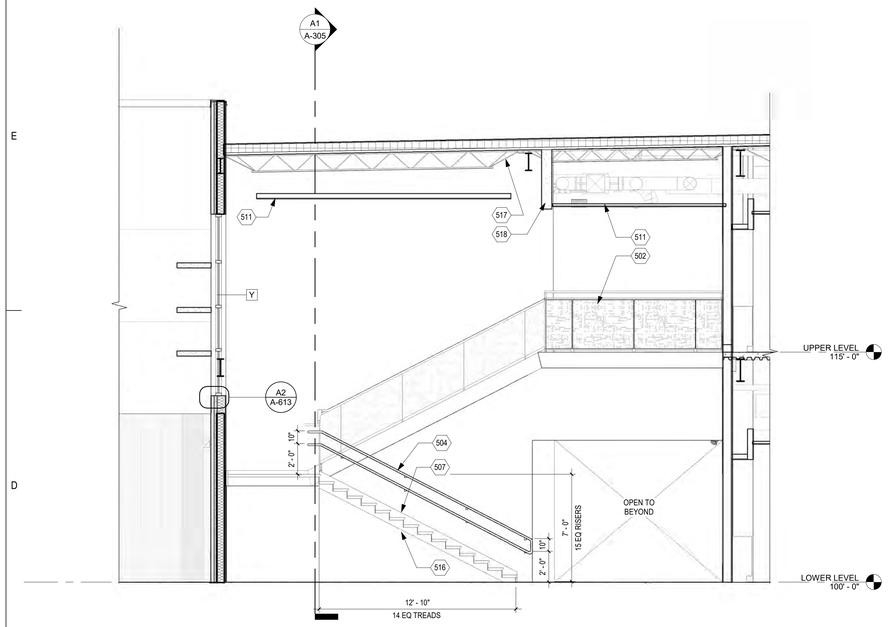
SHEET TITLE

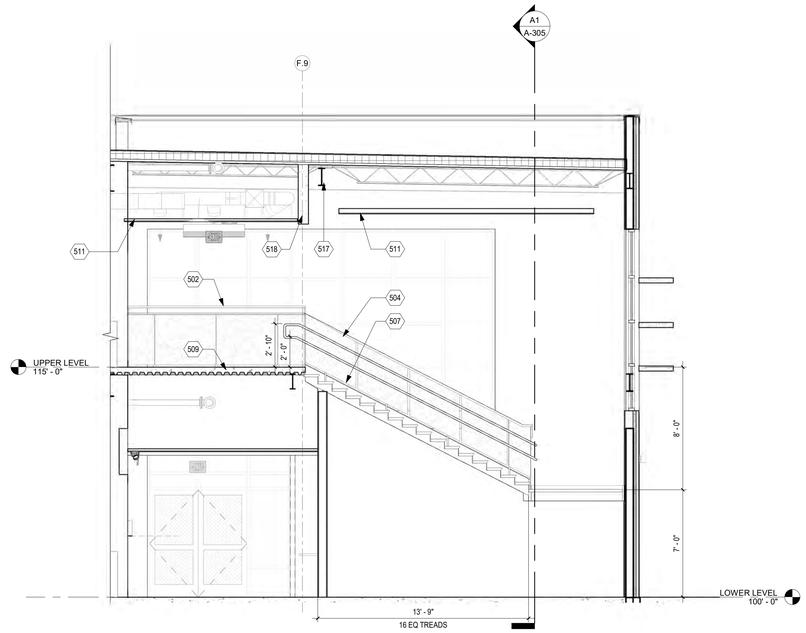
STAIR 1 - SECTIONS

A-503

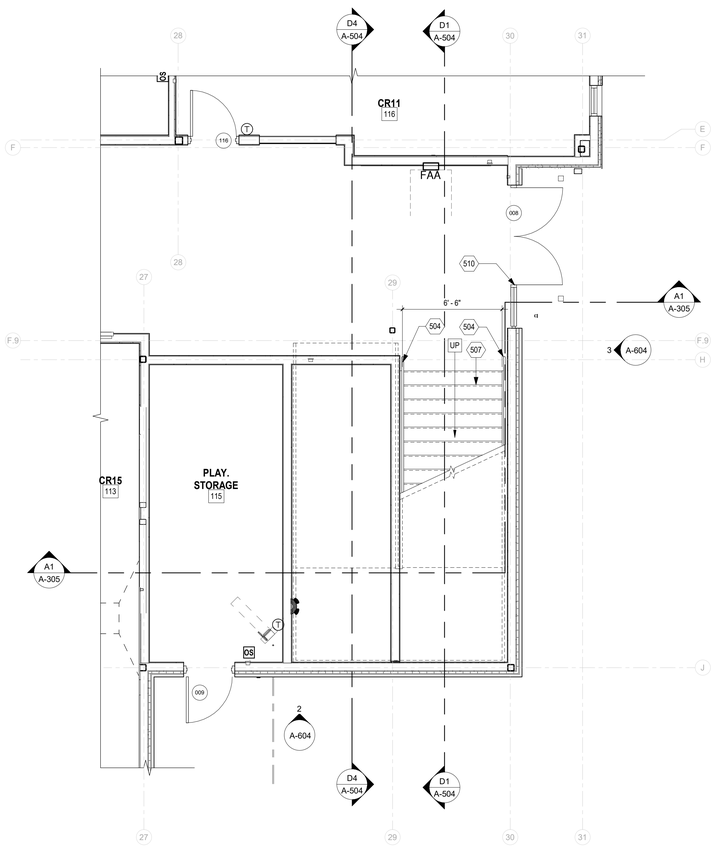
Farmington Preschool Academy



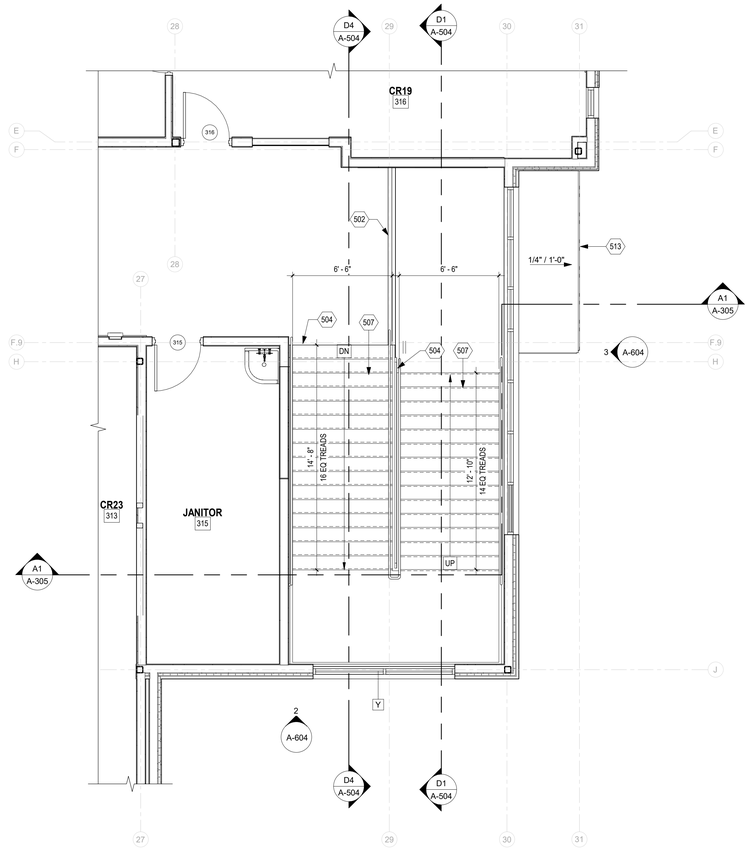
D1 STAIR 2 - SECTION
1/4" = 1'-0"



D4 STAIR 2 - SECTION LOOKING EAST
1/4" = 1'-0"



A1 STAIR 2 - LOWER LEVEL
1/4" = 1'-0"



A4 STAIRS 2 - UPPER LEVEL
1/4" = 1'-0"

GENERAL NOTES

A. ALL EXPOSED STEEL TO BE PAINTED, COLOR(S) TO BE DETERMINED BY ARCHITED.

B. ALL WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH. FILL ALL VOIDS, GRIND MARKS, ETC. PRIOR TO PAINTING.

C. GRIND EDGES OF STEEL PLATE SMOOTH.

D. EASE ALL EDGES OF STEEL PLATE SMOOTH.

E. OPENING DIMENSIONS SHOWN ARE NORMAL. RAILS SHALL BE FABRICATED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THRUOGH OPENINGS.

F. CONNECT ALL HANDRAILS AND GUARDRAILS ELEMENTS W/ CONTINUOUS 1/8" FILLET WIELDS UNLESS NOTED OTHERWISE.

G. FABRICATE ELEMENTS IN SHOP IN THE LARGETS SECTIONS FEASIBLE FOR FIELD INSTALLATION.

H. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF GUARDRAIL AND HANDRAIL.

I. ENCLOSE ALL LANDINGS, TYPICAL AT ALL STAIR LOCATIONS. U.N.O.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
1 / A101 SIM	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
X	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

502	PERFORATED METAL PANEL GUARDRAIL SEE DETAIL ON SHEET A-506.*
504	1-1/2" O.D. STEEL PIPE HAND RAIL. MOUNT 2'-10" A.F.F. PAINT. COLOR TO SELECTED BY ARCHITECT.
507	CONCRETE FILLED STEEL PAN TREADS. FOR FINISHES SEE ID SHEETS FOR FINISH SCHEDULE AND STRUCTURAL FOR INFORMATION.
509	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL. PAINT ALL EXPOSED METAL DECK. COLOR TO BE SELECTED BY ARCHITECT.
510	DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
511	FINISH CEILING. SEE RCP
513	BUILDING CANOPY. SEE RCP.
516	STEEL STAIR STRINGER. SEE STRUCTURAL. GRIND ALL WELDS SMOOTH. SEE ID SHEETS FOR FINISH SCHEDULE. COLOR TO BE SELECTED BY ARCHITECT.
517	STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS.
518	STUD BULKHEAD FRAMING. SEE RCP.

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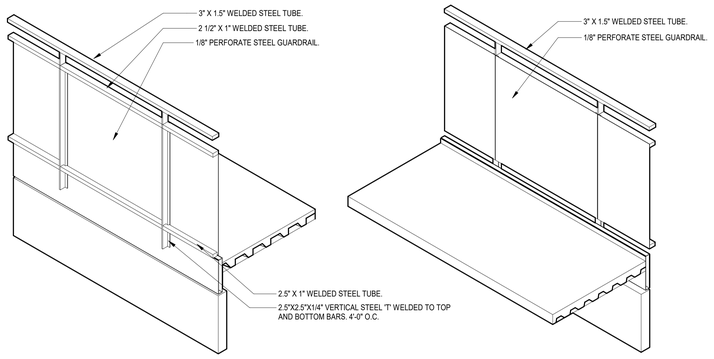
SHEET TITLE

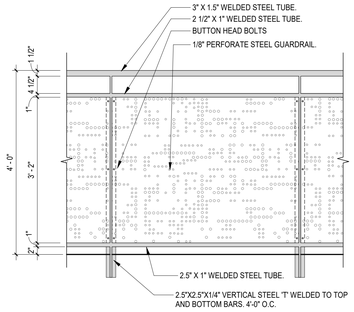
STAIR 2 - PLANS & ELEVATIONS

A-504

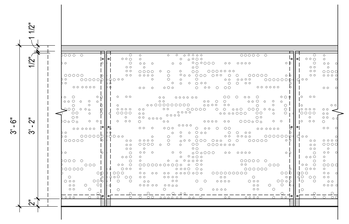
Farmington Preschool Academy

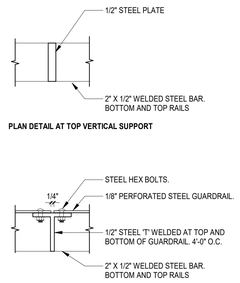


D1 GUARDRAIL ISOMETRIC
1" = 1'-0"

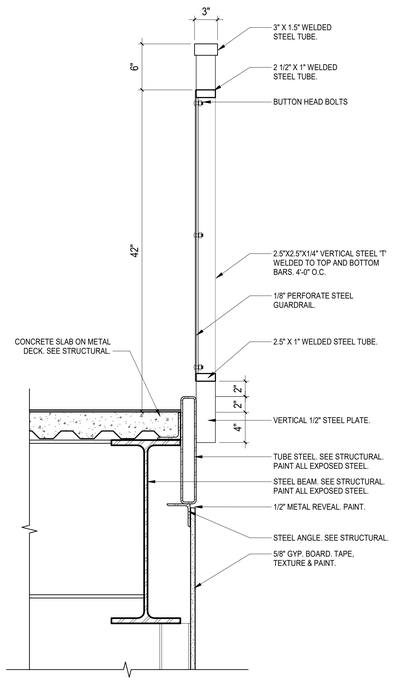


D4 GUARDRAIL - ELEVATION DETAIL
3/4" = 1'-0"

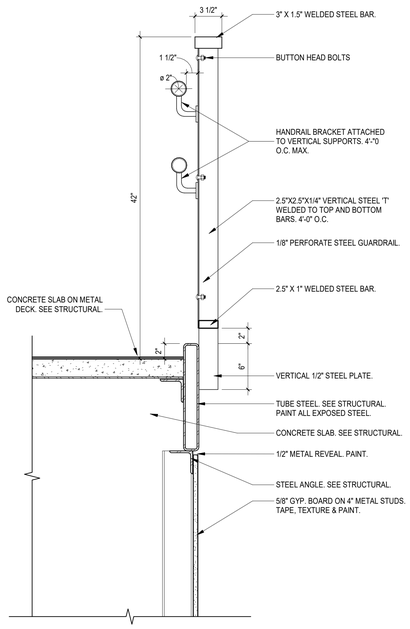




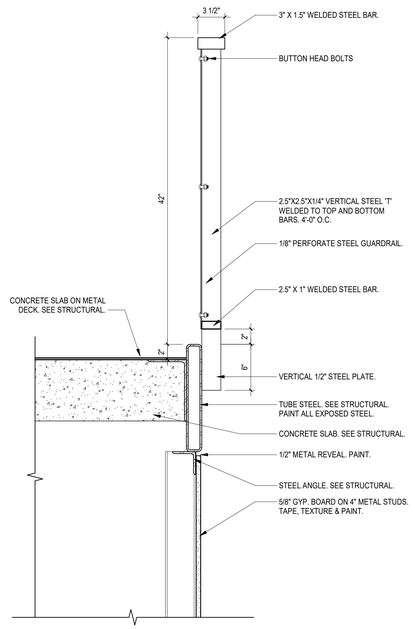
d5 GUARDRAIL PLAN DETAIL
3" = 1'-0"



A1 GUARDRAIL DETAIL - UPPER LEVEL
1 1/2" = 1'-0"



A2 GUARDRAIL DETAIL - AT STAIRS
1 1/2" = 1'-0"



A4 GUARDRAIL DETAIL - GROUND LEVEL
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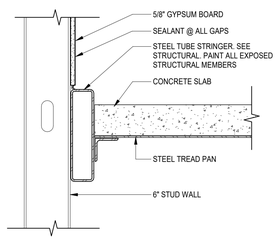
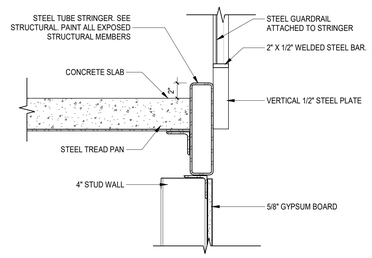


B5 STAIR - STRINGER DETAIL AT WALL
1 1/2" = 1'-0"



A5 STAIR - STRINGER DETAIL AT GUARDRAIL
1 1/2" = 1'-0"

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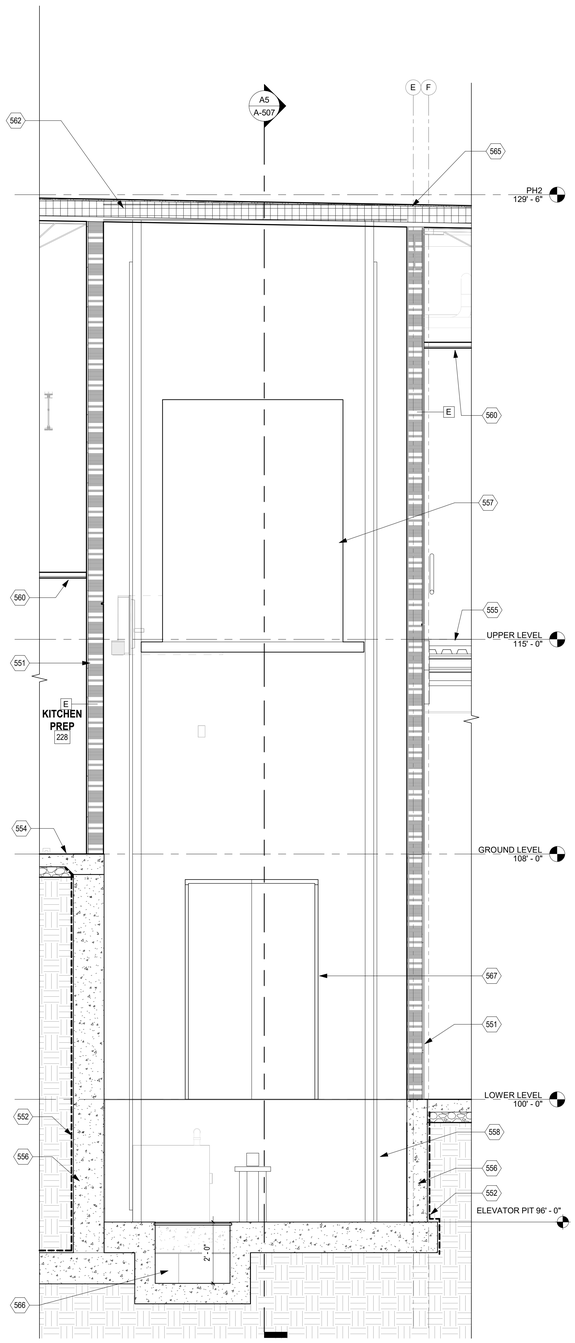
SHEET TITLE

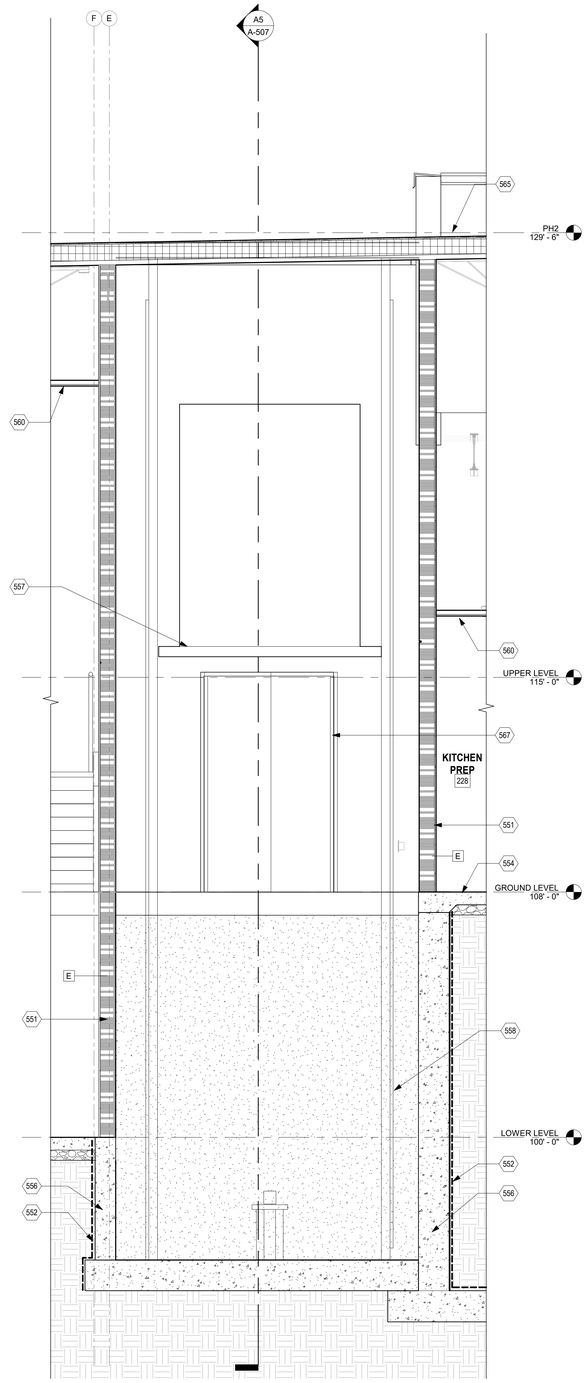
STAIR DETAILS

A-506

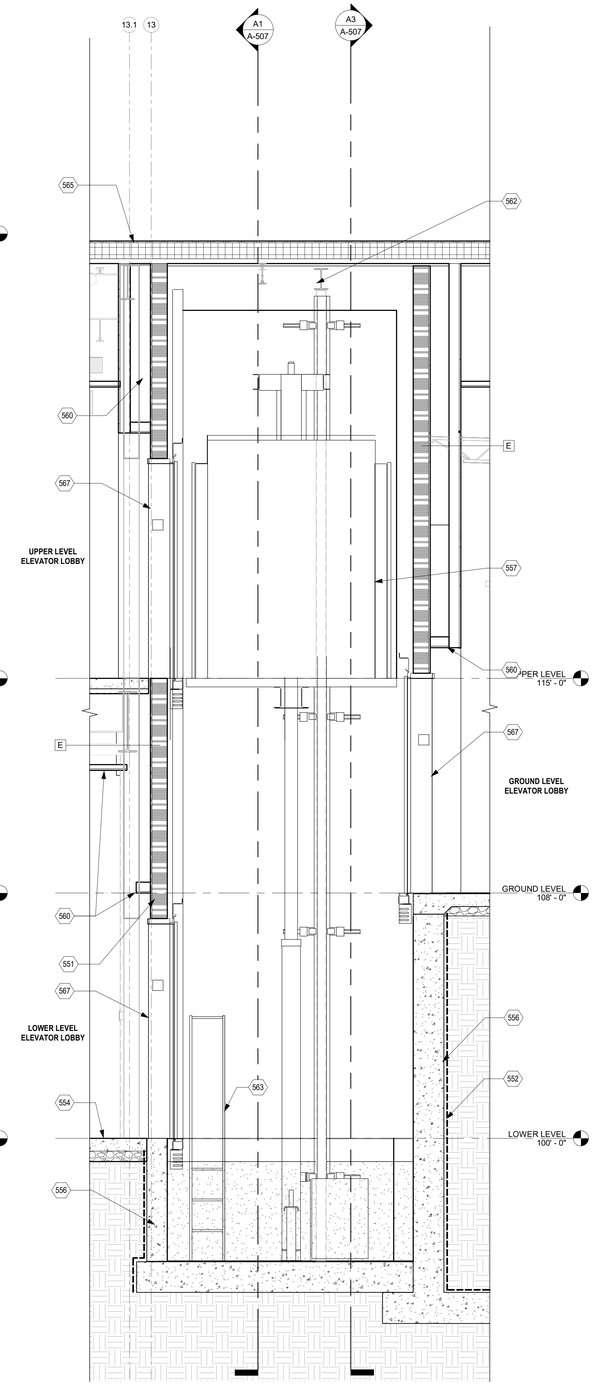
Farmington Preschool Academy



A1 ELEVATOR - SECTION
1/2" = 1'-0"



A3 ELEVATOR - SECTION LOOKING WEST
1/2" = 1'-0"



A5 ELEVATOR - SECTION LOOING SOUTH
1/2" = 1'-0"

GENERAL NOTES

A. ALL EXPOSED STEEL TO BE PAINTED, COLOR(S) TO BE DETERMINED BY ARCHITED.

B. ALL WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH. FILL ALL VOIDS, GRIND MARKS, ETC. PRIOR TO PAINTING.

C. GRIND EDGES OF STEEL PLATE SMOOTH.

D. EASE ALL EDGES OF STEEL PLATE SMOOTH.

E. OPENING DIMENSIONS SHOWN ARE NORMAL. RAILS SHALL BE FABRICATED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THRUOGH OPENINGS.

F. CONNECT ALL HANDRAILS AND GUARDRAILS ELEMENTS W/ CONTINUOUS 1/8" FILLET WIELDS UNLESS NOTED OTHERWISE.

G. FABRICATE ELEMENTS IN SHOP IN THE LARGETS SECTIONS FEASIBLE FOR FIELD INSTALLATION.

H. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF GUARDRAIL AND HANDRAIL.

I. ENCLOSE ALL LANDINGS, TYPICAL AT ALL STAIR LOCATIONS. U.N.O.

SYMBOL LEGEND

XX	DOOR TYPE (FOR INFORMATION SEE SHEET A-601)
1 Ref / A101	INTERIOR ELEVATION
SIM / 1 / A101	BUILDING/ WALL SECTION
0	STRUCTURAL GRID
x	WINDOW TYPE (FOR INFORMATION SEE SHEET A-603)
XX	PARTITION TYPE (FOR INFORMATION SEE SHEET A-501)
FE	FIRE EXTINGUISHER

KEYNOTES

551	1-HOUR RATED SHAFT WALL. SEE PARTITION SCHEDULE.
552	BELOW GRADE DAMPPROOFING.
554	CONCRETE SLAB ON GRADE. SEE STRUCTURAL.
555	CONCRETE SLAB OVER METAL DECK. SEE STRUCTURAL. PAINT ALL EXPOSED METAL DECK. COLOR TO BE SELECTED BY ARCHITECT.
556	CONCRETE RETAINING WALL AND FOOTING. SEE STRUCTURAL.
557	ELEVATOR CAB.
558	ELEVATOR GUIDERAILS.
560	FINISH CEILING. SEE RCP
562	HOIST WAY BEAM. SEE STRUCTURAL.
563	STEEL PIT LADDER.
565	PVC MEMBRANE ROOF SYSTEM. SEE ROOF PLAN.
566	ELEVATOR SUMP PIT. GC TO VERIFY REQUIRED LOCATION AND DIMENSION WITH ELEVATOR MANUFACTURER.
567	ELEVATOR ENTRANCE.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

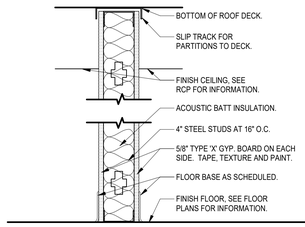
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	DCD
CHECKED BY:	JT

SHEET TITLE

ELEVATOR PLANS & DETAILS

A-507

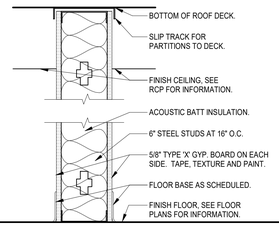
Farmington Preschool Academy



WALL TYPE

A

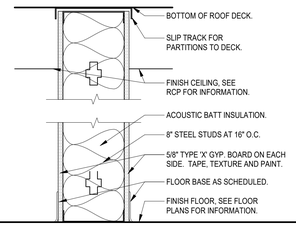
A	WALL TYPE AS SHOWN IN DETAIL ABOVE • STC RATED ASSEMBLY: STC 50 MINIMUM.
A1	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: • 5/8" TYPE 'X' GYP. BOARD ON EXPOSED SIDES OF PARTITION ONLY. TAPE, TEXTURE AND PAINT. • EXTEND ASSEMBLY TO 6" ABOVE FINISH CEILING
A2	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: (TYPICAL CLASSROOMS WITH ENHANCED ACOUSTICS) • STC RATED ASSEMBLY: 55 MINIMUM • ON CLASSROOM SIDE - TWO LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD, TAPE, TEXTURE, AND PAINT.



WALL TYPE

B

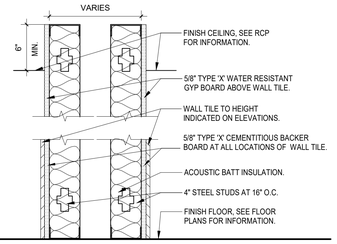
B	WALL TYPE AS SHOWN IN DETAIL ABOVE • STC RATED ASSEMBLY: STC 50 MINIMUM
B1	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: • 5/8" TYPE 'X' GYP. BOARD ON EXPOSED SIDES OF PARTITION ONLY. TAPE, TEXTURE AND PAINT. • EXTEND ASSEMBLY TO 6" ABOVE FINISH CEILING
B2	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: (TYPICAL CLASSROOM TO ADJACENT OCCUPIED SPACE) • STC RATED ASSEMBLY: STC 55 MINIMUM. • ON CLASSROOM SIDE - TWO LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD, TAPE, TEXTURE, AND PAINT.



WALL TYPE

C

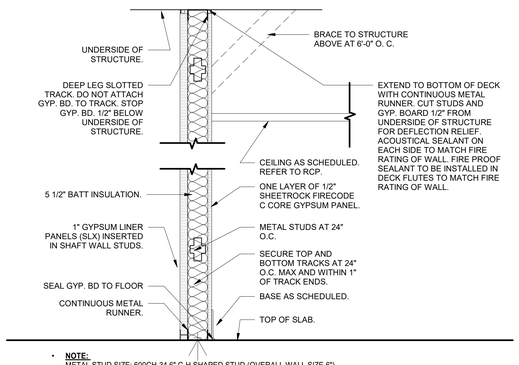
C	WALL TYPE AS SHOWN IN DETAIL ABOVE • 5/8" TYPE 'X' GYP. BOARD ON EXPOSED SIDES OF PARTITION ONLY. TAPE, TEXTURE AND PAINT.



WALL TYPE

D

D	WALL TYPE AS SHOWN IN DETAIL ABOVE
D1	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: • EXTEND ASSEMBLY TO 6" ABOVE FINISH CEILING
D2	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: • 1 HOUR FIRE RATED ASSEMBLY (FIRE BARRIER WALL) • UL-U457 1 HOUR • FIRE SAFE ALL PENETRATIONS & JOINTS TO MAINTAIN RATING • TILE LOCATIONS: 5/8" TYPE 'X' CEMENTITIOUS BACKER BOARD AT WALL TILE. 5/8" TYPE 'X' WATER RESISTANT GYPSUM BOARD ABOVE WALL TILE. TAPE, TEXTURE, PAINT.
D3	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: • 5/8" TYPE 'X' CEMENTITIOUS BACKER BOARD AT WALL TILE. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR HEIGHT AND EXTENT. • 5/8" TYPE 'X' WATER RESISTANT GYPSUM BOARD ABOVE WALL TILE. TAPE, TEXTURE, PAINT.
D4	AS SHOWN IN DETAIL ABOVE WITH THE FOLLOWING EXCEPTIONS: • STC RATED ASSEMBLY: 60 MINIMUM • 5/8" TYPE 'X' GYPSUM BOARD ON EXPOSED SIDE TAPE, TEXTURE, PAINT. • EXTEND STUDS & GYPSUM BOARD TO 6" ABOVE FINISH CEILING.



- **NOTE:**
  METAL STUD SIZE: 600CH-34 6" C-H SHAPED STUD (OVERALL WALL SIZE 6").
  WALL TO BE RATED AS A 1 HOUR RATED PARTITION (UL 415).

WALL TYPE

E

E	WALL TYPE AS SHOWN IN DETAIL ABOVE • ELECTRICAL BOXES SHALL NOT BE INSTALLED BACK TO BACK IN STUD CAVITY. • ALL PLUMBING AND ELECTRICAL PENETRATIONS SHALL BE SEALED TO MATCH RATING OF WALL. • SOUND CAULK ELECTRICAL AND VOICE/DATA OUTLETS. • IN WET AREAS MOISTURE RESISTANT GYPSUM BOARD IS TO BE USED IN LIEU OF STANDARD TYPE X GYPSUM BOARD. • WALL SCHEDULED TO RECEIVE TILE. TILE BACKER BOARD TO BE USED IN LIEU OF STANDARD TYPE X GYPSUM BOARD.

PARTITION NOTES

A. SEE FLOOR PLANS FOR EXTENT OF RATED ASSEMBLIES.

B. SEE FLOOR PLANS AND ID SHEETS FOR INTERIOR FINISH INFORMATION.

C. SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND DETAIL OF LOAD BEARING STEEL STUDS OR CMU WALLS.

D. SEE REFLECTED CEILING PLAN FOR ALL CEILING INFORMATION.

E. SEE BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION OF INTERIOR WALLS THAT EXTEND ABOVE THE ROOF PLANE AND EXTERIOR WALLS. COORDINATE WITH STRUCTURAL.

F. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

G. FURNISH AND INSTALL SLIP TYPE HEAD JOINTS AT ALL STEEL STUD PARTITIONS THAT EXTEND TO DECK.

H. FURNISH AND INSTALL FIRE STOP TRACKS AT ALL FIRE RATED STEEL STUD PARTITIONS.

I. FURNISH AND INSTALL WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF TOILET PARTITIONS, SIGNAGE, ACCESSORIES OR OTHER WALL SUPPORTED ITEMS AS REQUIRED.

J. FURNISH AND INSTALL WATER RESISTANT GYPSUM BOARD IN KITCHEN, RESTROOMS, CUSTODIAL ROOMS AND ALL WET AREAS.

K. FURNISH AND INSTALL WALL TILE ON 5/8" TYPE X CEMENTITIOUS BACKER BOARD TO HEIGHT INDICATED ON INTERIOR ELEVATIONS IN ALL RESTROOMS, DRINKING FOUNTAINS AND CLASSROOMS.

L. PARTITION GAUGE SHALL COMPLY WITH DEFLECTION AND LOADING CRITERIA INDICATED IN THE SPECIFICATIONS.

M. NO RIGID INSULATION SHALL BE EXPOSED INSIDE THE BUILDING ENVELOPE. COVER ALL INSULATION WITH GYPSUM BOARD. TAPE BED AND SEAL ALL GAPS AT DECK WITH FIRE/SMOKE SEALANT.

N. PARTITIONS THAT HAVE MULTIPLE LAYERS OF GYP BOARD SHALL BE CONTINUOUS ALONG WALL SURFACE. STAGGERED OR STEPPED WALL SURFACES WILL NOT BE ACCEPTED.

O. BACK TO BACK OUTLETS IN STC RATED PARTITIONS WILL NOT BE ALLOWED.

P. FURNISH AND INSTALL ACOUSTIC SEALANT AT FLOOR TO PARTITION CONNECTIONS AT ALL STC RATED PARTITIONS.

Q. FURNISH AND INSTALL ACOUSTIC SEALANT AT ALL PENETRATIONS FOR UTILITIES, HVAC, SPRINKLERS, CONDUITS, ETC. AS THEY PENETRATE STC RATED PARTITIONS. SUPPORT PENETRATIONS ON EACH SIDE OF PARTITION TO AVOID MECHANICAL CONTACT WITH STUDS OR GYPSUM BOARD.

R. SPACES BETWEEN ITEMS PENETRATING STC RATED PARTITIONS AND THE PARTITION ITSELF SHALL BE SEALED USING ACOUSTIC SEALANT AND BACKER MATERIAL (GLASS FIBER INSULATION OR ROCK WOOL).

S. FURNISH AND INSTALL 5/8" ABUSE RESISTANT GYPSUM BOARD TO 8'-0" AFF AT ALL CORRIDOR AND VESTIBULE LOCATIONS.

WALL TILE NOTES

A. PARTITION TYPES TO NOT ADDRESS WALL TILE. SEE INTERIOR ELEVATIONS.

B. FURNISH AND INSTALL 5/8" TYPE 'X' CEMENTITIOUS BACKER BOARD AT WALL TILE LOCATIONS.

C. FURNISH AND INSTALL 5/8" TYPE 'X' WATER RESISTANT GYPSUM BOARD ABOVE WALL TILE TO FINISH CEILING, TAPE, TEXTURE AND PAINT.

D. ABOVE FINISH CEILING, FINISH THE PARTITION PER PARTITION TYPE.

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No. 3088
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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

PARTITION SCHEDULE

A-601

Farmington Preschool Academy

EXTERIOR — DOOR & FRAME SCHEDULE

DOOR NUMBER	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	FACING /FINISH	FRAME TYPE	GLAZING	SECURITY FILM	DETAIL REFERENCE HEAD	DETAIL REFERENCE JAMB	DETAIL REFERENCE SILL	SIGNAGE	REMARKS	ROLLER SHADES
001	6' - 0"	7' - 0"	1 PAIR	ALUM	H	1" ISG	UP TO 7'-0"	SEE FRAME ELEVATION	SEE FRAME ELEVATION	SEE FRAME ELEVATION	EXIT	REMOVEABLE CENTER MULLION	-
002	3' - 0"	7' - 0"	1	ALUM	H	1" ISG	UP TO 7'-0"	SEE FRAME ELEVATION	SEE FRAME ELEVATION	SEE FRAME ELEVATION	EXIT	HC DOOR OPERATOR, INSTALL ACCESS CONTROL	-
003	6' - 0"	7' - 0"	1 PAIR	ALUM	R	1" ISG	UP TO 7'-0"	SEE FRAME ELEVATION	SEE FRAME ELEVATION	SEE FRAME ELEVATION	EXIT	INSTALL ACCESS CONTROL, REMOVEABLE CENTER MULLION, HC DOOR OPERATOR	-
004	3' - 0"	7' - 0"	3	HM/P	D	-	-	B1/A-613	B2/A-613	-	FIRE RISER	-	-
005	4' - 0"	7' - 0"	4	HM/P	D	1" ISG	-	B1/A-613	B2/A-613	-	EXIT	INSTALL ACCESS CONTROL, REMOVEABLE CENTER MULLION, HC DOOR OPERATOR	MANUAL - DOOR LITE
006	3' - 0"	7' - 0"	3	HM/P	D	-	-			-	PLUMBING	-	-
007	3' - 0"	7' - 0"	3	HM/P	D	-	-	B1/A-613	B2/A-613	-	ELECTRICAL	-	-
008	6' - 4"	7' - 0"	1 PAIR	ALUM	Z	1" ISG	UP TO 7'-0"	SEE FRAME ELEVATION	SEE FRAME ELEVATION	SEE FRAME ELEVATION	EXIT	INSTALL ACCESS CONTROL, REMOVEABLE CENTER MULLION	-
009	3' - 0"	7' - 0"	3	HM/P	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
010	6' - 0"	7' - 0"	1 PAIR	ALUM	X	1" ISG	UP TO 7'-0"	SEE FRAME ELEVATION	SEE FRAME ELEVATION	SEE FRAME ELEVATION	EXIT	INSTALL ACCESS CONTROL, REMOVEABLE CENTER MULLION	POWERED - DOOR LITE & FRAME
011	6' - 0"	7' - 0"	1 PAIR	ALUM	S	1" ISG	UP TO 7'-0"	SEE FRAME ELEVATION	SEE FRAME ELEVATION	SEE FRAME ELEVATION	EXIT	REMOVEABLE CENTER MULLION, INSTALL ACCESS CONTROL	POWERED - DOOR LITE & FRAME
012	4' - 0"	7' - 0"	3	HM/P	D	-	-	B1/A-613	B2/A-613	-	PENTHOUSE 3	-	-
013	4' - 0"	7' - 0"	3	HM/P	D	-	-	B1/A-613	B2/A-613	-	PENTHOUSE 1	-	-
014	4' - 0"	7' - 0"	3	HM/P	D	-	-	B1/A-613	B2/A-613	-	PENTHOUSE 2	-	-

INTERIOR — DOOR & FRAME SCHEDULE

DOOR NUMBER	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	FACING /FINISH	FRAME TYPE	GLAZING	SECURITY FILM	DETAIL REFERENCE HEAD	DETAIL REFERENCE JAMB	DETAIL REFERENCE SILL	SIGNAGE	REMARKS	ROLLER SHADES
101A	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	A3/A-613	STORAGE	-	-
104	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
104B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
104C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
106	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
106B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
106C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
107	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
107B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
107C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
109	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
109B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
109C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
110	3' - 0"	7' - 0"	5	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	SPECIAL EDUCATION	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE & FRAME
110A	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
110B	4' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	ELECTRICAL	-	-
111	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
111B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
111C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
112	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	WORKROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE & FRAME
112A	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
112B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	IT	INSTALL ACCESS CONTROL	-
113	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
113B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
113C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
114	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
114B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
114C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
116	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
116B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
116C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
200A	6' - 0"	7' - 0"	1 PAIR	ALUM	O	1" ISG	UP TO 7'-0"	A2/A-613	A2/A-613	A2/A-613	VESTIBULE	REMOVEABLE CENTER MULLION	-
200B	3' - 0"	7' - 0"	1	ALUM	O	1" ISG	UP TO 7'-0"	A2/A-613	A2/A-613	A2/A-613	VESTIBULE	INSTALL ACCESS CONTROL	-
201A	2' - 8 7/8"	7' - 0"	1	ALUM	N	1" ISG	-	A2/A-613	A2/A-613	A2/A-613	VESTIBULE	ACCESS CONTROL ROUGH-IN	POWERED - DOOR LITE & FRAME
201B	3' - 0"	7' - 0"	1	ALUM	P	1" ISG	UP TO 7'-0"	A2/A-613	A2/A-613	A2/A-613	ADMINISTRATION	INSTALL ACCESS CONTROL, PUSH BUTTON TO ENTER	MANUAL - DOOR LITE & FRAME
201C	3' - 0"	7' - 0"	1	ALUM	P	1/4" SG	UP TO 7'-0"	A2/A-613	A2/A-613	A2/A-613	ADMINISTRATION	INSTALL ACCESS CONTROL	MANUAL - DOOR LITE & FRAME
202	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	PRINCIPAL	-	MANUAL - DOOR LITE & FRAME
203	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	OFFICE	-	MANUAL - DOOR LITE & FRAME
204	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	OFFICE	-	MANUAL - DOOR LITE & FRAME
205	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	CONFERENCE	-	MANUAL - DOOR LITE & FRAME
206	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
207	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
208	4' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	ELECTRICAL	-	-
209	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
209B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
209C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
210	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
210B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
210C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
211	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
211B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
211C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	INSTALL ACCESS CONTROL	-
212	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
212B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
212C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
213	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	NURSE	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
213A	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	TREATMENT	-	MANUAL - DOOR LITE
213B	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	OFFICE	-	MANUAL - DOOR LITE & FRAME
213C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
214	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
214B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
214C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
215	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	OFFICE	-	MANUAL - DOOR LITE
216	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	MDF	-	-
217	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
218	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
218B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
218C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
219	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	OFFICE	-	MANUAL - DOOR LITE
220	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
220B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
220C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
221	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
221B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
221C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
222	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
223	3' - 0"	7' - 0"	1	ALUM	T	1/4" SG	-	A2/A-613	A2/A-613	A2/A-613	WORKROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE & FRAME
224	3' - 0"	7' - 0"	1	ALUM	P	1/4" SG	-	A2/A-613	A2/A-613	A2/A-613	OFFICE	-	MANUAL - DOOR LITE & FRAME
225	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	JANITOR	-	-
228	4' - 0"	7' - 0"	4	HM/P	D	1/4" SG		A3/A-613	A3/A-613	-	KITCHEN	ACCESS CONTROL ROUGH-IN	-
229	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
301	6' - 0"	7' - 0"	6 PAIR	W/SV	C	-		A3/A-613	A3/A-613	-	MECHANICAL	-	-
302	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	ELECTRICAL	-	-
304	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
304B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
304C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
306	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
306B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
306C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
307	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
307B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
307C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
309	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
309B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
309C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
310	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG	-	A3/A-613	A3/A-613	A3/A-613	SPECIAL EDUCATION	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE & FRAME
310A	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
310B	4' - 0"	7' - 0"	6	W/SV	D	-		A3/A-613	A3/A-613	-	ELECTRICAL	-	-
311	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
311B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
311C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
312	3' - 0"	7' - 0"	6	W/SV	E	1/4" SG		A3/A-613	A3/A-613	A3/A-613	WORKROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE & FRAME
312A	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
312B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	IT	INSTALL ACCESS CONTROL	-
313	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
313B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
313C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
314	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
314B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
314C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-
315	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	JANITOR	-	-
316	3' - 0"	7' - 0"	5	W/SV	D	1/4" SG	-	A3/A-613	A3/A-613	-	CLASSROOM	ACCESS CONTROL ROUGH-IN	MANUAL - DOOR LITE
316B	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	RESTROOM	-	-
316C	3' - 0"	7' - 0"	6	W/SV	D	-	-	A3/A-613	A3/A-613	-	STORAGE	-	-

GENERAL NOTES

A. GROUT ALL HOLLOW METAL DOOR FRAMES SOLID.

B. FINISH AND INSTALL PAINTABLE SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.

C. PAINT ALL VISIBLE SURFACES OF HOLLOW METAL GLASS STOPS.

D. ALL FRAME DIMENSIONS AND PROFILES ARE TO BE FIELD VERIFIED BEFORE FABRICATION.

E. METAL INSERTS FOR GLASS SHALL BE 1-1/4" MAX. PAINT ALL VISIBLE SURFACES OF INSERTS.

F. PAINT ALL HOLLOW METAL DOORS AND FRAMES. COLOR TO BE SELECTED BY ARCHITECT.

G. LOCATE ROOM IDENTIFICATION SIGNS AT ALL DOORS AS INDICATED ON THE DOOR SCHEDULE. SEE SPECIFICATIONS FOR SIZE AND TYPE OF SIGN. LOCATE EVACUATION SIGNS AT EACH END OF ALL CORRIDORS. LOCATE EXIT SIGNS AT ALL VESTIBULE DOORS. COORDINATE FINAL LOCATION OF ALL BUILDING SINGS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

H. GLASS IN ALL EXTERIOR DOORS AND/OR DOOR FRAMES SHALL BE 1" INSULATED GLAZING.

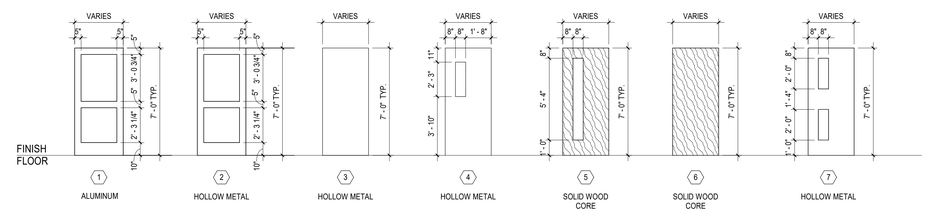
I. SEE SPECIFICATIONS FOR HARDWARE SCHEDULE AND INFORMATION.

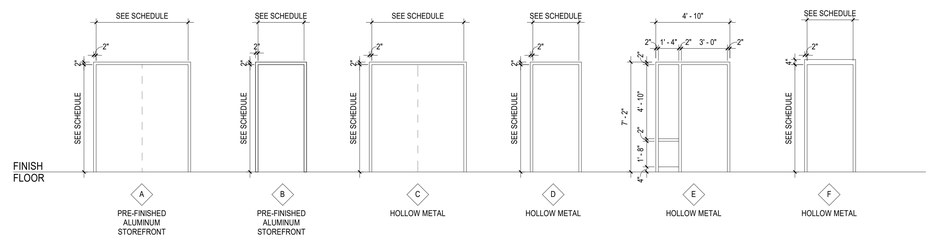
J. CENTER MULLION TYPICAL ON ALL DOUBLE-LEAF DOORS UNLESS NOTED ON SHEET A-601 DOOR SCHEDULES.

K. FURNISH AND INSTALL RESTROOM IDENTIFICATION SIGNS AT ALL RESTROOMS THAT DO NOT HAVE DOORS.

LEGEND

HM/P	-	HOLLOW METAL/PAINT
ALUM	-	ALUMINUM SYSTEM FINISH TO BE SELECTED BY ARCHITECT
W/SV	-	WOOD SOLID CORE / STAIN & VARNISH
1" ISG	-	1" INSULATED SAFETY GLASS
1/4" SG	-	1/4" SAFETY GLASS
SF		LEVEL I - SECURITY FILM. APPLY TO INTERIOR FACE OF GLASS. TYPICAL AT ALL EXTERIOR WINDOWS / STOREFRONTS UP TO 7' - 0". SEE ELEVATIONS FOR EXACT LOCATIONS.
HC		HANDICAP ACTUATOR BUTTON





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03/21/2024
SANJAY I. ENGINEER
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FARMINGTON PRESCHOOL ACADEMY

5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS

MARCH 2024

MARK	DATE	DESCRIPTION

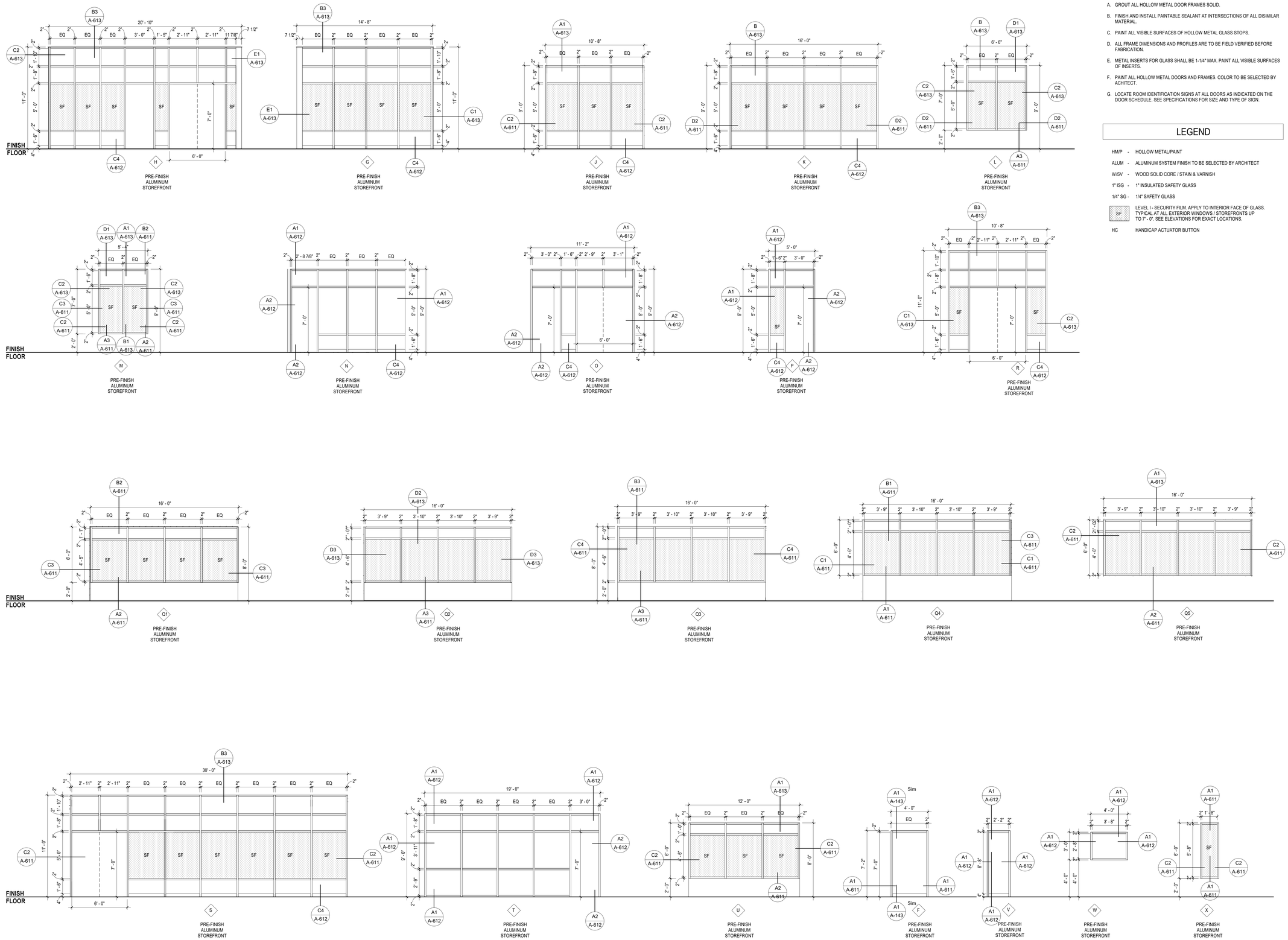
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

DOOR & WINDOW SCHEDULE

A-602

Farmington Preschool Academy



GENERAL NOTES

A. GROUT ALL HOLLOW METAL DOOR FRAMES SOLID.

B. FINISH AND INSTALL PAINTABLE SEALANT AT INTERSECTIONS OF ALL DISIMILAR MATERIAL.

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E. METAL INSERTS FOR GLASS SHALL BE 1-1/4" MAX. PAINT ALL VISIBLE SURFACES OF INSERTS.

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G. LOCATE ROOM IDENTIFICATION SIGNS AT ALL DOORS AS INDICATED ON THE DOOR SCHEDULE. SEE SPECIFICATIONS FOR SIZE AND TYPE OF SIGN.

LEGEND

HM/P	-	HOLLOW METAL/PAINT
ALUM	-	ALUMINUM SYSTEM FINISH TO BE SELECTED BY ARCHITECT
W/SV	-	WOOD SOLID CORE / STAIN & VARNISH
1" ISG	-	1" INSULATED SAFETY GLASS
1/4" SG	-	1/4" SAFETY GLASS
SF		LEVEL I - SECURITY FILM. APPLY TO INTERIOR FACE OF GLASS. TYPICAL AT ALL EXTERIOR WINDOWS / STOREFRONTS UP TO 7' - 0". SEE ELEVATIONS FOR EXACT LOCATIONS.
HC		HANDICAP ACTUATOR BUTTON

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SANJAY L. ENGINEER
No. 3088
STAMPED DOCUMENT

ARCHITECT

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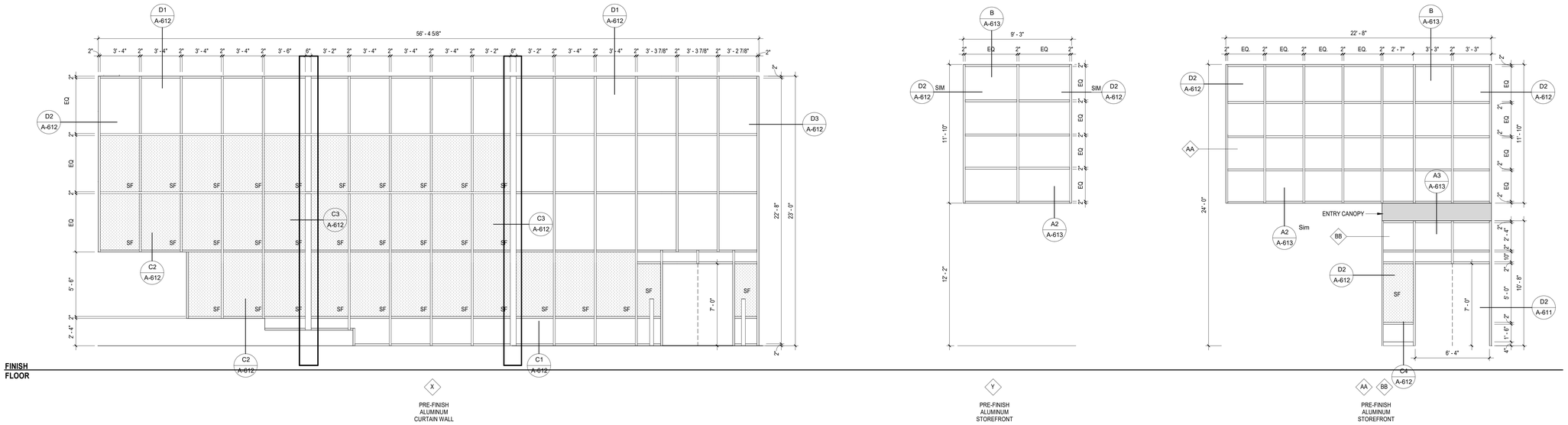
CHECKED BY:	Checker

SHEET TITLE

WINDOW & STOREFRONT ELEVATIONS

A-603

Farmington Preschool Academy



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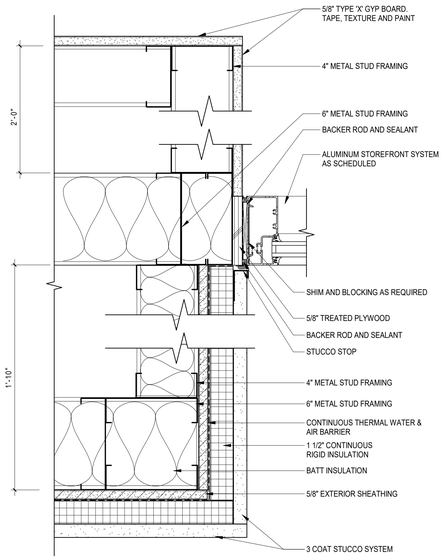
SHEET TITLE

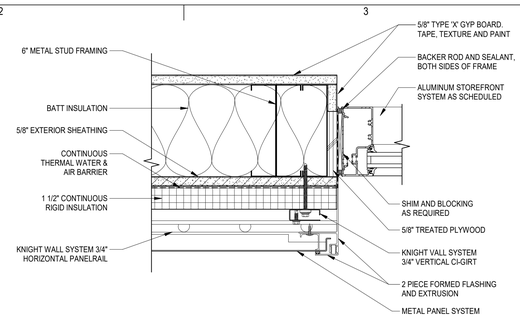
WINDOW & STOREFRONT ELEVATIONS

A-604

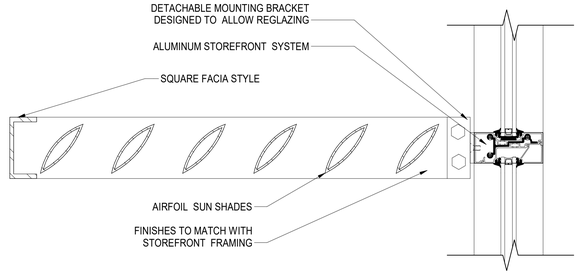
Farmington Preschool Academy



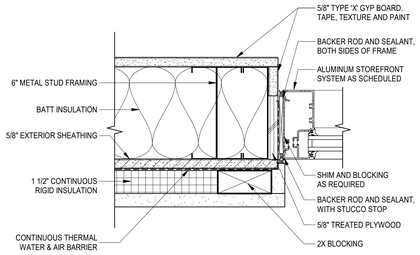
C1 STOREFRONT - RECESSED STUCCO - JAMB
3" = 1'-0"



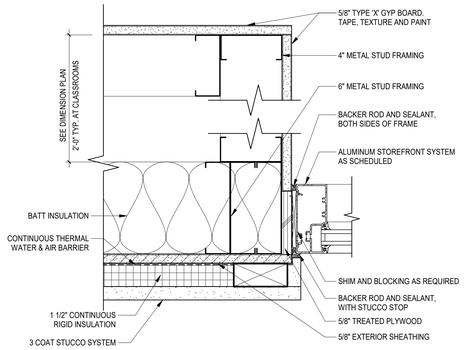
D2 STOREFRONT DETAIL - METAL PANEL - JAMB
3" = 1'-0"



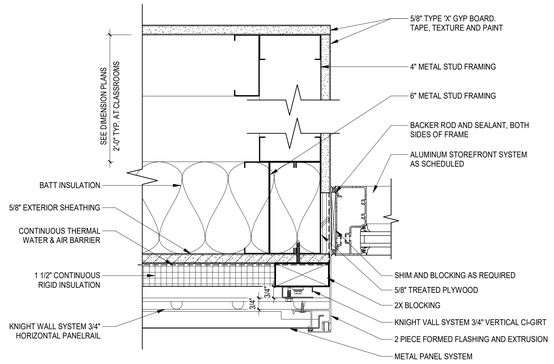
D3 SUNSHADE DETAIL
3" = 1'-0"



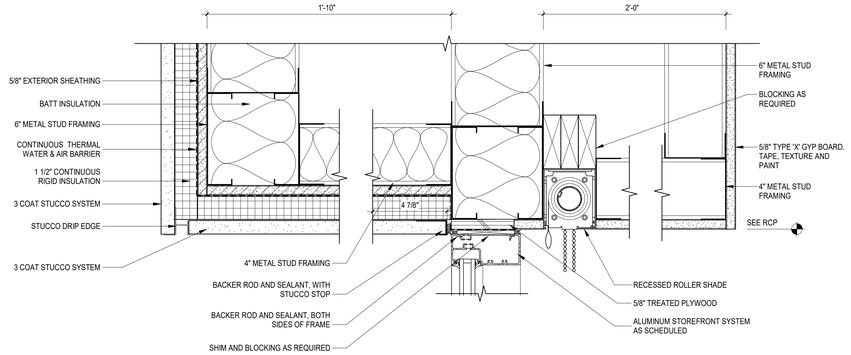
C2 STOREFRONT - STUCCO - JAMB
3" = 1'-0"



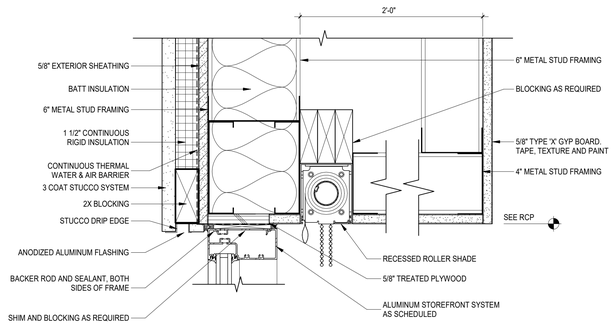
C3 STOREFRONT - STUCCO - JAMB
3" = 1'-0"



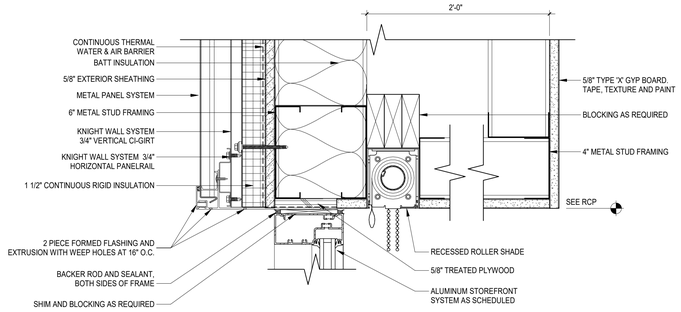
C4 STOREFRONT DETAIL - CLASSROOM @ METAL PANEL - JAMB
3" = 1'-0"



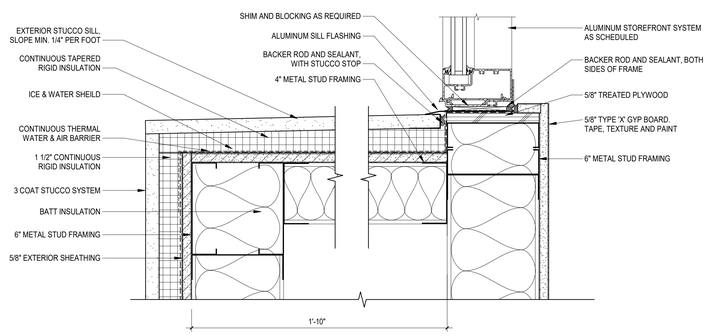
B1 STOREFRONT - RECESSED STUCCO - HEAD
3" = 1'-0"



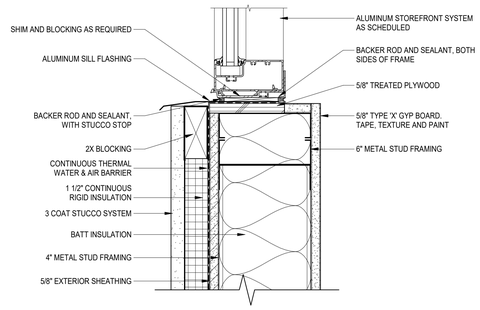
B2 STOREFRONT - STUCCO - HEAD
3" = 1'-0"



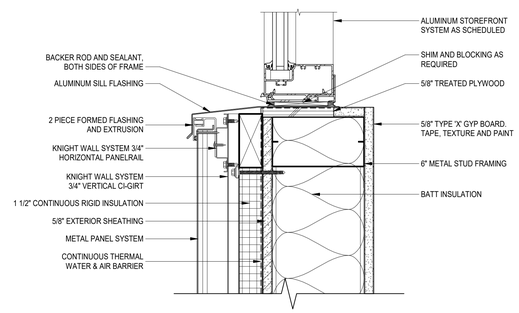
B3 STOREFRONT DETAIL - CLASSROOM @ METAL PANEL - HEAD
3" = 1'-0"



A1 STOREFRONT - RECESSED STUCCO - SILL
3" = 1'-0"



A2 STOREFRONT - STUCCO - SILL
3" = 1'-0"



A3 STOREFRONT DETAIL - CLASSROOM @ METAL PANEL - SILL
3" = 1'-0"

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No. 3088
STAMPED PROFESSIONAL ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

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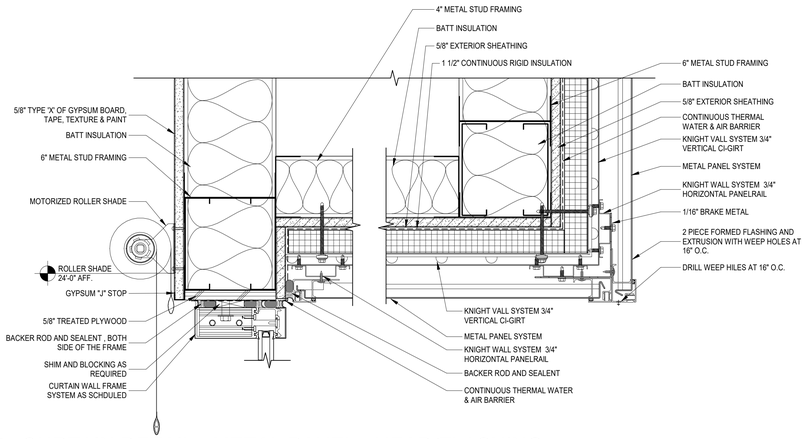
CHECKED BY:	Checker

SHEET TITLE

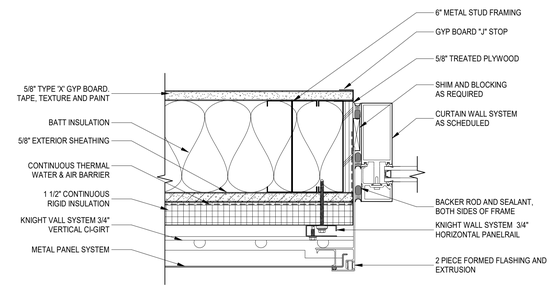
WINDOW & STOREFRONT DETAILS

A-611

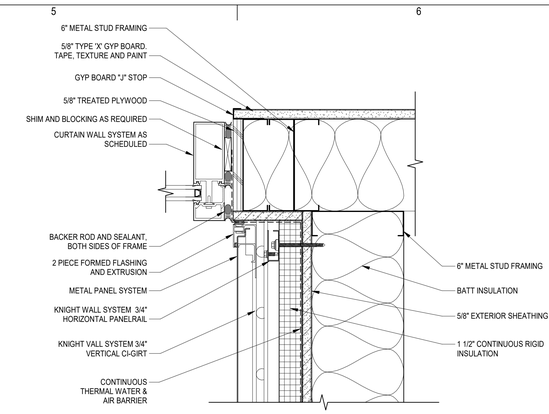
Farmington Preschool Academy



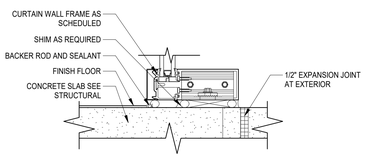
D1 CURTAIN DETAIL - METAL PANEL - HEAD/FLASHING
3" = 1'-0"



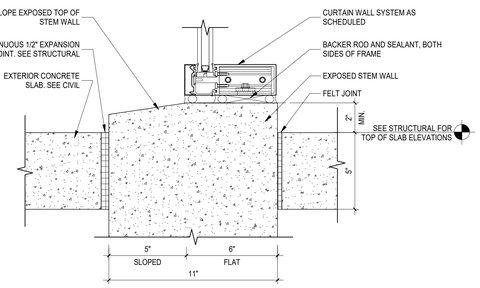
D2 CURTAIN DETAIL - METAL PANEL - JAMB/EXTRUSION
3" = 1'-0"



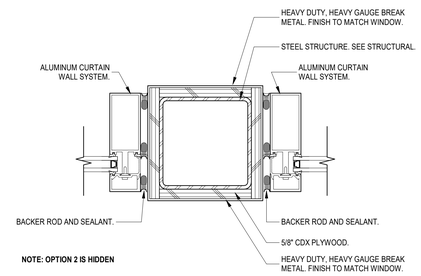
D3 CURTAIN DETAIL - METAL PANEL - JAMB
3" = 1'-0"



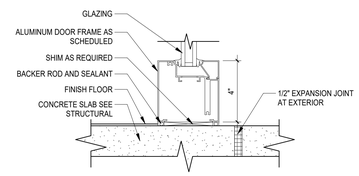
C1 CURTAIN WALL SILL
3" = 1'-0"



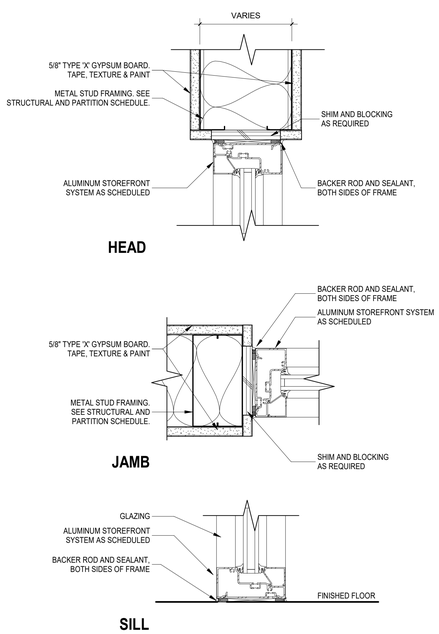
C2 CURTAIN WALL - CONTRETE - SILL
3" = 1'-0"



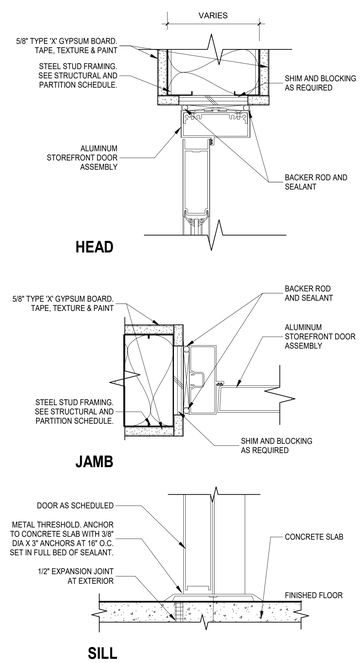
C3 CURTAIN WALL TO COLUMN PLAN DETAIL
3" = 1'-0"



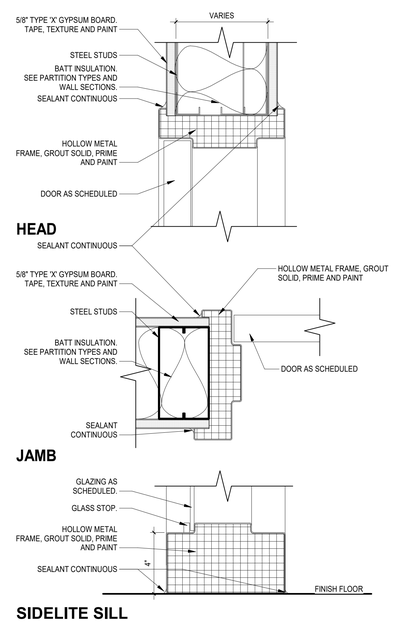
C4 STOREFRONT SILL
3" = 1'-0"



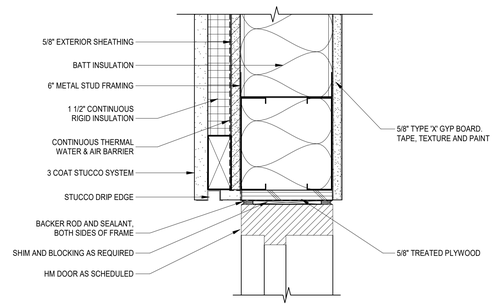
A1 STOREFRONT - INTERIOR STUD
3" = 1'-0"



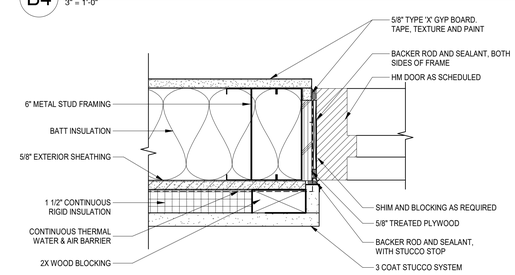
A2 ALUMINUM FRAME - INTERIOR STUD
3" = 1'-0"



A3 HOLLOW METAL FRAME - INTERIOR STUD
3" = 1'-0"



B4 EXT. HM DOOR - STUCCO - HEAD
3" = 1'-0"



A4 EXT. HM DOOR- STUCCO - JAMB
3" = 1'-0"

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No. 3088
REGISTERED ARCHITECT

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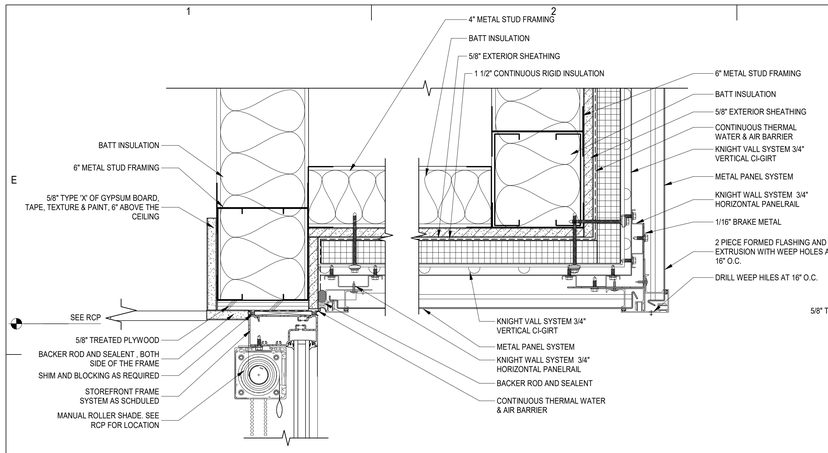
SHEET TITLE

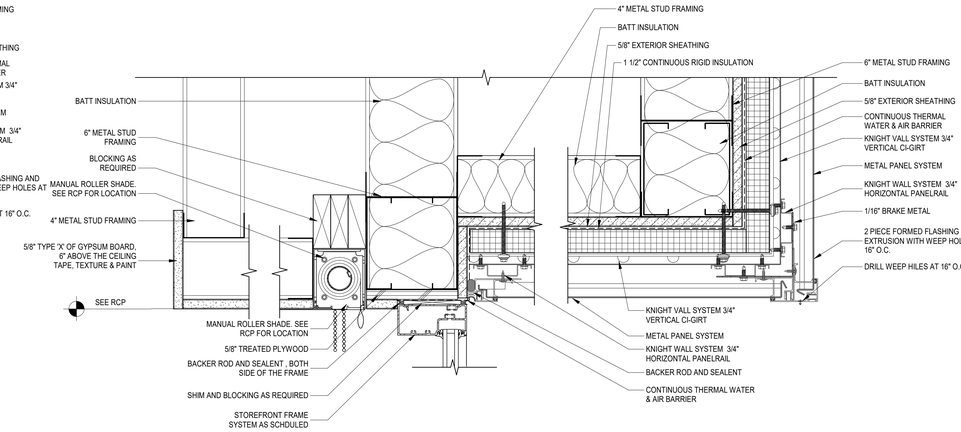
WINDOW & STOREFRONT DETAILS

A-612

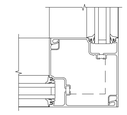
Farmington Preschool Academy



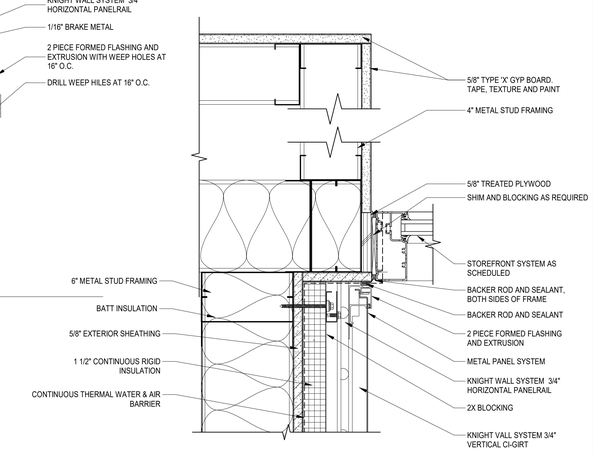
D1 STOREFRONT DETAIL - METAL PANEL - HEAD
3" = 1'-0"



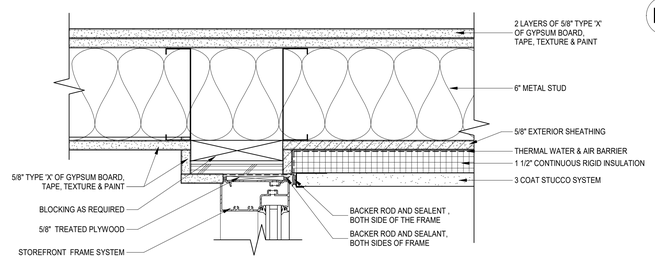
D2 STOREFRONT - METAL PANEL - HEAD
3" = 1'-0"



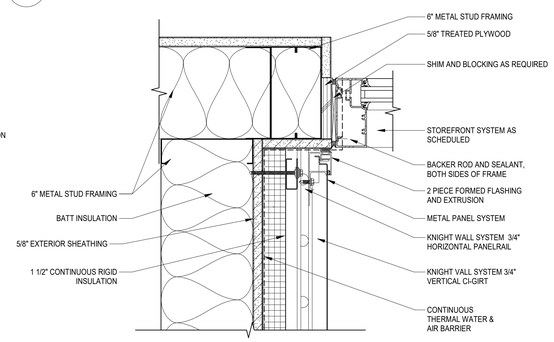
E1 STOREFRONT CORNER PLAN DETAIL
3" = 1'-0"



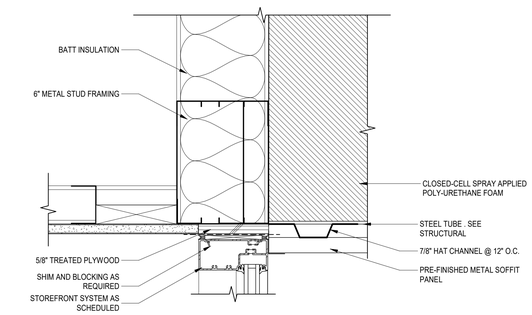
D3 STOREFRONT DETAIL - METAL PANEL
3" = 1'-0"



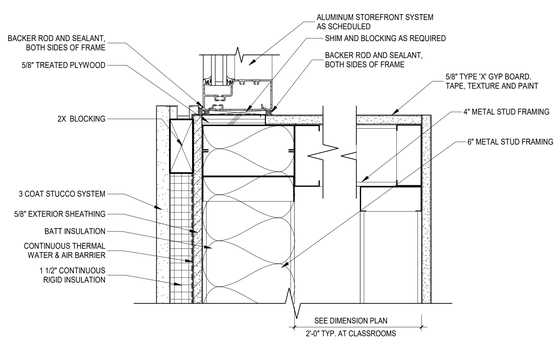
C1 STOREFRONT TO STUCCO - JAMB
3" = 1'-0"



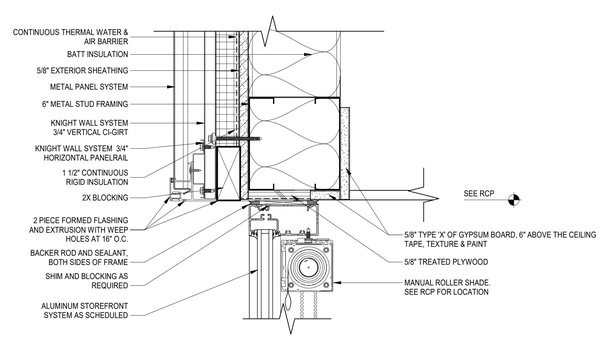
C2 STOREFRONT TO METAL PANEL - JAMB
3" = 1'-0"



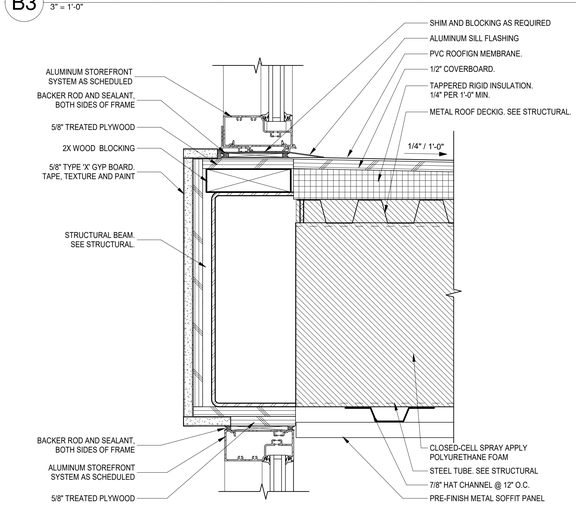
B3 STOREFRONT DETAIL - HEAD - CANOPY
3" = 1'-0"



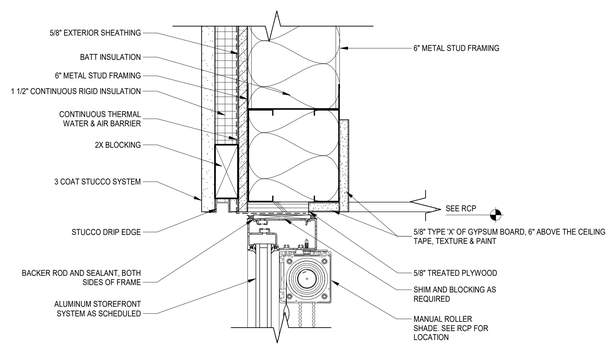
B1 STOREFRONT- STUCCO - HEAD
3" = 1'-0"



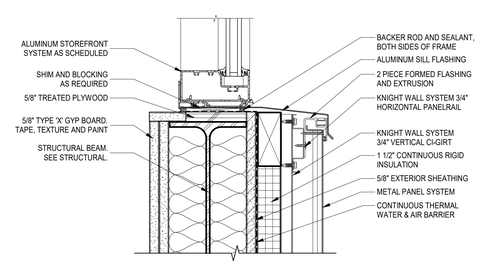
B STOREFRONT - METAL PENAL - HEAD @ CANOPY
3" = 1'-0"



A3 STOREFRONT DETAIL AT CANOPY
3" = 1'-0"



A1 STOREFRONT - STUCCO - HEAD @ SUNSHADE
3" = 1'-0"



A2 STOREFRONT SILL DETAIL
3" = 1'-0"

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WINDOW & STOREFRONT DETAILS

A-613

Farmington Preschool Academy

FARMINGTON PRESCHOOL ACADEMY

INTERIOR FINISH SCHEDULE

FLOOR FINISHES

CARPET TILE

CARPET TILE - 18" X 36" W/ STANDARD BACKING

MFG: INTERFACE
COLLECTION: # 125610AKOO SIMPLE ABSTRACTION
CPT1 — COLOR: # 106017 METAL
* NOTE: CARPET IN ADMIN. SUITE

WALK OFF CARPET - 24" x 24" TILE

MFG: MASLAND CONTRACT FLOORING
SERIES: STREET LEVEL - GET A GRIP
CPT2 — COLOR: # T-7871 REMOVE
* NOTE: $\frac{1}{4}$" TURNED INSTALLATION W/ PRESSURE SENSITIVE ADHESIVE

LINOLEUM TILE/ SHEET GOODS

LINOLEUM TILE - 13" X 13"

MFG: FORBO FLOORING
COLLECTION: MCT TILE - 2.0 GAUGE
SERIES: ESSENTIALS
MCT1 — COLOR: # MCT- 3888 STONE
MCT2 — COLOR: # MCT - 3238 LAGUNA
MCT3 — COLOR: # MCT - 3030 BLUE
MCT4 — COLOR: # MCT - 3260 LEAF
MCT5 — COLOR: # MCT - 3282 MOSS

MFG: FORBO FLOORING
COLLECTION: MCT TILE - 2.0 GAUGE
SERIES: ELEMENTAL
MCT6 — COLOR: # MCT - 3601 WARM GREY

SHEET LINOLEUM

MFG: FORBO FLOORING
COLLECTION: MARMOLEUM SHEET - 2.5 GAUGE
SERIES: STRIATO
SV1 — COLOR: # 5232 ROCKY ICE
* NOTE: HEAT WELD ALL SEAMS - COLOR: TBD

FLOOR TILE

PORCELAIN FLOOR TILE - 12" X 12"

MFG: DALTILE
SERIES: VOLUME 1.0
FT1 — COLOR: # VL73 STEREO GREY
* NOTE: EPOXY GROUT: MFG. CUSTOM BUILDER
COLOR: # 165 DOLOREN GRAY

STAIR TREAD/ RISER/ STRINGER

RUBBER STAIR TREAD COLLECTION

MFG: FLEXCO
FINISH: HAMMERTONE
RB1 — COLOR:
RB2 — COLOR:
* NOTE: REVISIT COLORS DURING CD'S

VINYL WALL BASE - 4" H

MFG: JOHNSONITE
VB1 — COLOR: # TBD

SEALED CONCRETE

SC — MFG: REFER TO PROJECT MANUAL

FLOOR TRANSITION STRIP -

TS
MFG: SCHLUTER SYSTEMS
SERIES: CARPET TO VINYL
VINYL TO PORCELAIN TILE
FINISH: BRUSHED ALUMINUM

SAFETY FLOORING - SLIP RESISTANT

KF1
MFG: ECO GRIP FLOORING
FINISH: FOOD SERVICE
COLOR: SLATE

WALL FINISHES

WALL TILE

CERAMIC TILE

MFG: DALTILE - 2" x 8" - INSTALL TILE VERTICAL
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
WT1 — COLOR: # 0790 (1) MATTE ARCTIC WHITE
WT2 — COLOR: # 0161 (2) URBAN PUTTY
WT3 — COLOR: # X114 (1) DESERT GRAY
WT4 — COLOR: # 0115 (3) EMERALD
WT5 — COLOR: # 1174 (3) SEA BREEZE
WT6 — COLOR: # 1049 (3) OCEAN BLUE

MFG: AMERICAN OLEAN- 2" x 8"
SERIES: COLOR STORY
WT7 — COLOR: # 0076 (3) GREEN APPLE
* NOTE: CLASSROOM RESTROOM & SINK AREA WALL TILE

MFG: DALTILE - 4" x 16"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
WT8 — COLOR: # 0790 (1) MATTE ARCTIC WHITE
WT9 — COLOR: # 0161 (2) URBAN PUTTY
WT10 — COLOR: # X114 (1) DESERT GRAY
* NOTE: PUBLIC ADULT GANGING/ SINGLE RESTROOMS

* GENERAL NOTE: WALL GROUT: MFG. CUSTOM BUILDER -
COLOR: # 14 WHITE DOVE

METAL WALL TRIM

METAL U-SHAPE TOP CAP - TRANSITIONS TILE TO GYP. BOARD

MFG: SCHLUTER SYSTEMS
FINISH:: BRUSHED ALUMINUM FINISH

METAL CORNER BEAD - 90 DEGREE @ TILE LOCATIONS

MFG: SCHLUTER SYSTEMS
FINISH:: BRUSHED ALUMINUM FINISH

FRP PANEL

FIBERGLASS REINFORCED WALL PANEL (FRP) SIZE: 4' X 8'

FRP — MFG: MARLITE WALL PANELS
COLLECTION: STANDARD - SMOOTH FINISH
COLOR: WHITE

* NOTE: PRICE TO INCLUDE PVC EDGE CAP, DIVISION BAR & INSIDE AND OUTSIDE CORNER, PER MANUFACTURES SPECIFICATION

PAINT

WALL PAINT- SEMI GLOSS

MFG: SHERWIN WILLIMAS
P1 — # SW-7006 EXTRA WHITE
* NOTE: GENERAL WALL COLOR

MFG: SHERWIN WILLIAMS
P2 — COLOR: # SW 9170 ACIER
* NOTE: HMD & WINDOW FRAME

MFG: BENJAMIN MOORE
P3 — COLOR: # 765 SKYSCRAPER
* NOTE: ACCENT WALLS

MFG: BENJAMIN MOORE
P4 — COLOR: # 794 PARADISE VIEW
* NOTE: ACCENT WALLS

MFG: SHERWIN WILLIAMS
P5 — COLOR: # SW-6441 WHITE MINT
* NOTE: ACCENT WALLS

MFG: BENJAMIN MOORE
P6 — COLOR: # HC-172 REVERE PEWTER
* NOTE: ACCENT WALLS

CASEWORK FINISHES

LAMINATE - HPL

PLASTIC LAMINATE

MFG: WILSONART
PL1 — COLOR: # 4990-38 FLAX LINEN FINE VELVET FINISH

MFG: WILSONART (PREMIUM HPL)
PL2 — COLOR: # 5058K-18 TITANIUM ALLOY MATTE FINISH

MFG:
PL3 — COLOR:

SOLID SURFACE

SOLID SURFACE

MFG:
SS1 — COLOR:

WALLCOVERING

VINYL WALLCOVERING - WRITABLE

MFG: WALL TALKERS
VWC1 — SERIES: PROJECTION, MAGNETIC & WRITABLE SURFACE
FINISH: MATTE FINISH
ACCESORIES: MAG-RITE # M2PR-00 WHITE
REFER TO ELEVATIONS FOR SIZE/ FRAME
LOCATION:

MFG: MOMENTUM - WALL PROTECTION
VWC2 — SERIES: P3 - TECH
PATTERN: TBD
COLOR: TBD
ACCESORIES:
LOCATION:

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STATE OF NEW MEXICO 03/21/2024 SANJAY L. ENGINEER No. 3088 REGISTERED PROFESSIONAL

ARCHITECT ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 21, 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

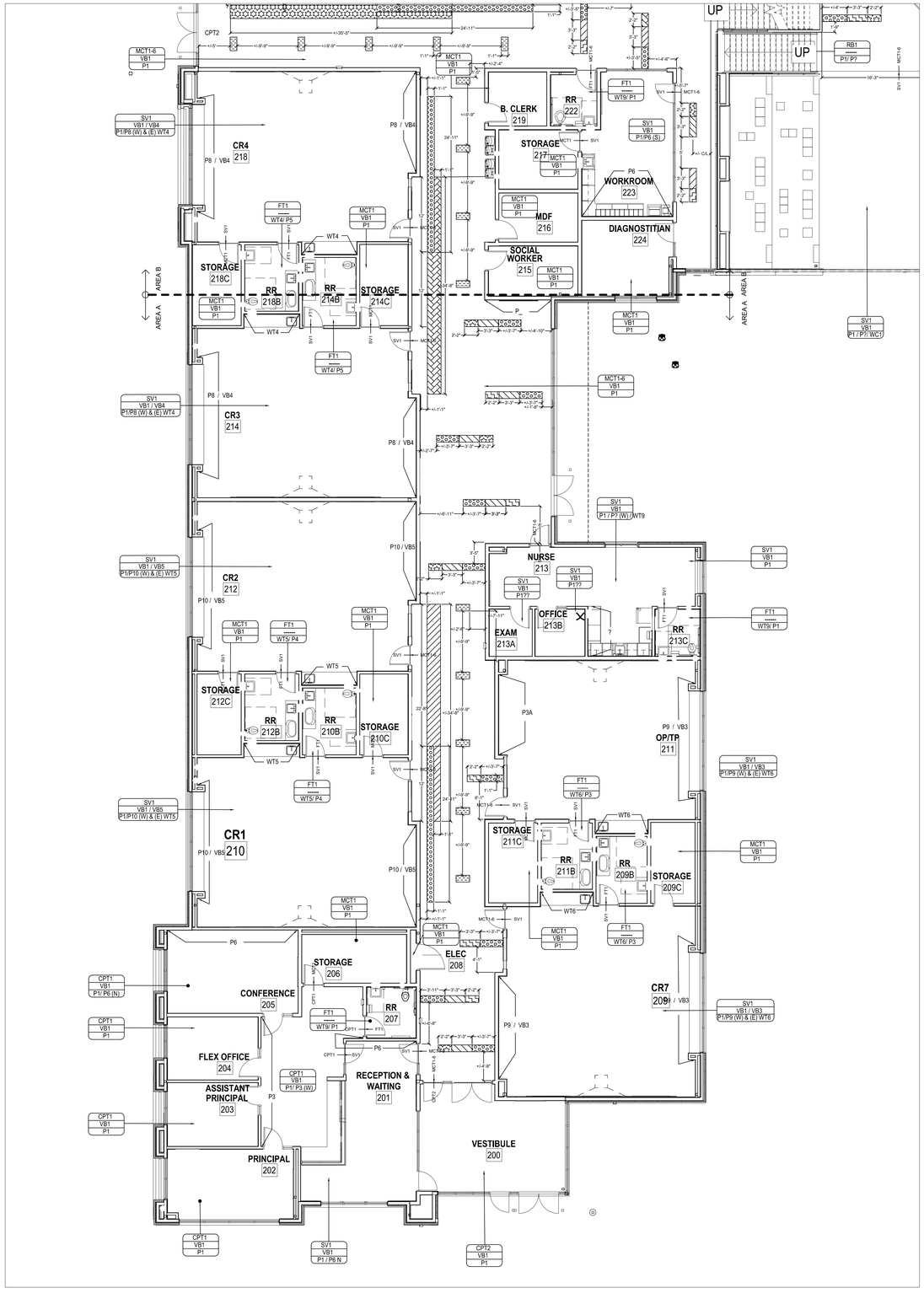
SHEET TITLE
INTERIOR FINISH LEGEND

ID-100

10/18/2023 4:17:43 PM

Farmington Preschool Academy

FARMINGTON PRESCHOOL ACADEMY



A1 FINISH PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

FLOOR PATTERN LEGEND

VINYL TILE/ SHEET GOODS

LINOLEUM TILE - 13" X 13"

MFG: FORBO FLOORING
COLLECTION: MCT TILE - 2.0 GAUGE
SERIES: ESSENTIALS

MCT1	COLOR:	#	MCT- 3888 STONE
MCT2	COLOR:	#	MCT - 3238 LAGUNA
MCT3	COLOR:	#	MCT - 3030 BLUE
MCT4	COLOR:	#	MCT - 3260 LEAF
MCT5	COLOR:	#	MCT - 3282 MOSS
MCT3	COLOR:	#	MCT -
MCT4	COLOR:	#	MCT
MCT5	COLOR:	#	MCT -

MFG: FORBO FLOORING
COLLECTION: MCT TILE - 2.0 GAUGE
SERIES: ELEMENTAL

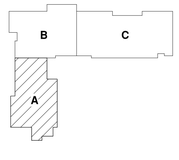
MCT6	COLOR:	#	MCT - 3601 WARM GREY

SHEET LINOLEUM

MFG: FORBO FLOORING
COLLECTION: MARMOLEUM SHEET - 2.5 GAUGE
SERIES: STRIATO

SV1	COLOR:	#	5232 ROCKY ICE

* NOTE: HEAT WELD ALL SEAMS - COLOR: TBD



KEY PLAN
N.T.S.

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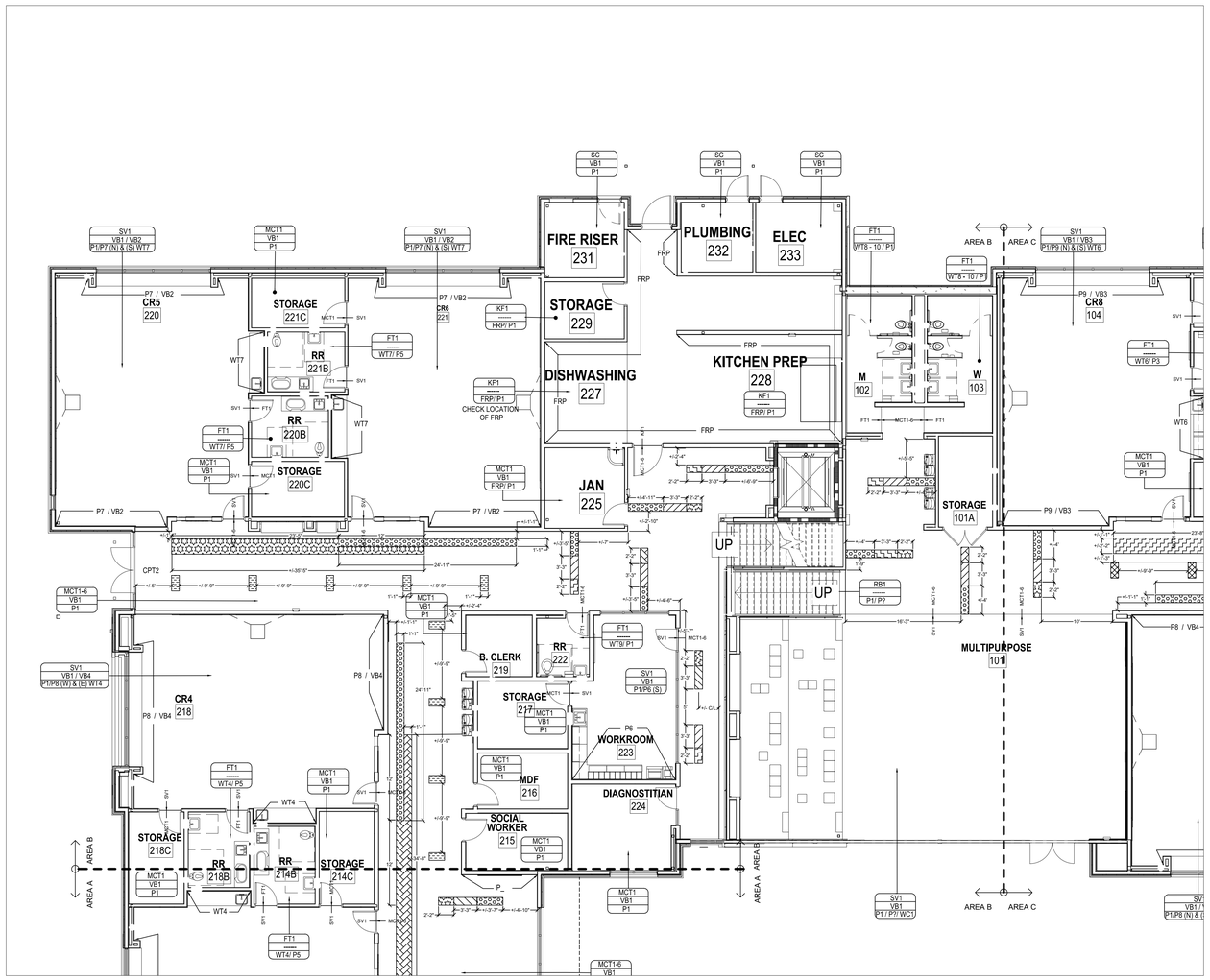
SHEET TITLE
FINISH LEVEL - GROUND LEVEL 'A'

ID-101

10/18/2023 4:17:58 PM

Farmington Preschool Academy



A1 FINISH PLAN - GROUND LEVEL 'B'
1/8" = 1'-0"

FLOOR PATTERN LEGEND

VINYL TILE/ SHEET GOODS

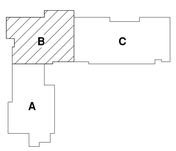
LINOLEUM TILE - 13" X 13"

		MFG:	FORBO FLOORING
		COLLECTION:	MCT TILE - 2.0 GAUGE
		SERIES:	ESSENTIALS
	MCT1	COLOR: #	MCT- 3888 STONE
	MCT2	COLOR: #	MCT - 3238 LAGUNA
	MCT3	COLOR: #	MCT - 3030 BLUE
	MCT4	COLOR: #	MCT - 3260 LEAF
	MCT5	COLOR: #	MCT - 3282 MOSS
	MCT3	COLOR: #	MCT -
	MCT4	COLOR: #	MCT
	MCT5	COLOR: #	MCT -
		MFG:	FORBO FLOORING
		COLLECTION:	MCT TILE - 2.0 GAUGE
		SERIES:	ELEMENTAL
	MCT6	COLOR: #	MCT - 3601 WARM GREY

SHEET LINOLEUM

		MFG:	FORBO FLOORING
		COLLECTION:	MARMOLEUM SHEET - 2.5 GAUGE
		SERIES:	STRIATO
	SV1	COLOR: #	5232 ROCKY ICE

* NOTE: HEAT WELD ALL SEAMS - COLOR: TBD



KEY PLAN
N.T.S.

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No. 3088
REGISTERED

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SHEET TITLE
FINISH LEVEL - GROUND LEVEL 'B'

ID-102

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Farmington Preschool Academy

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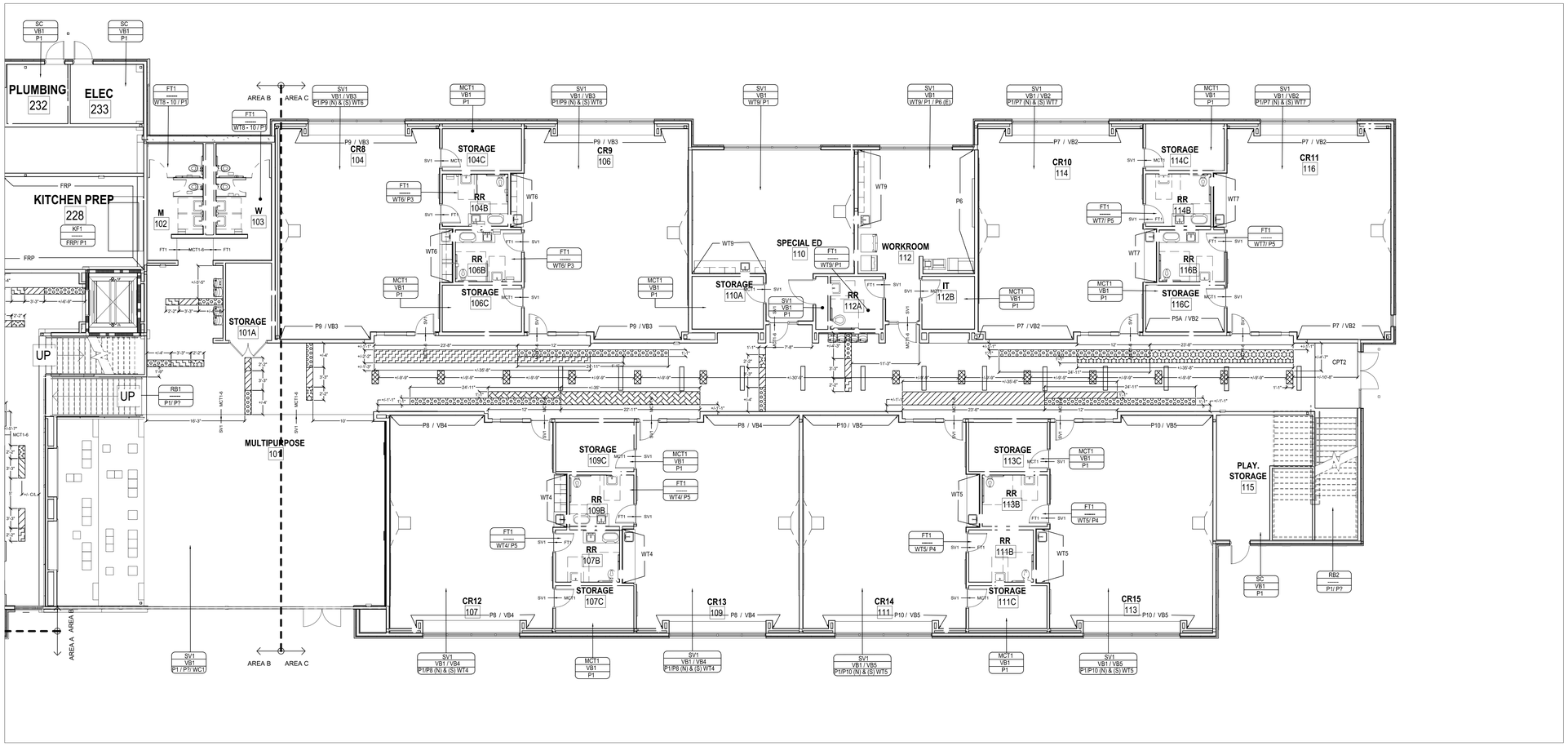


A1 FINISH PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

FLOOR PATTERN LEGEND

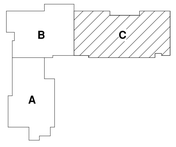
/INYL TILE/ SHEET GOODS

LINOLEUM TILE - 13" X 13"

	MFG:	FORBO FLOORING
	COLLECTION:	MCT TILE - 2.0 GAUGE
	SERIES:	ESSENTIALS
MCT1	COLOR: #	MCT- 3888 STONE
MCT2	COLOR: #	MCT - 3238 LAGUNA
MCT3	COLOR: #	MCT - 3030 BLUE
MCT4	COLOR: #	MCT - 3260 LEAF
MCT5	COLOR: #	MCT - 3282 MOSS
MCT3	COLOR: #	MCT -
MCT4	COLOR: #	MCT
MCT5	COLOR: #	MCT -
	MFG:	FORBO FLOORING
	COLLECTION:	MCT TILE - 2.0 GAUGE
	SERIES:	ELEMENTAL
MCT6	COLOR: #	MCT - 3601 WARM GREY

SHEET LINOLEUM

MFG:	FORBO FLOORING
COLLECTION:	MARMOLEUM SHEET - 2.5 GAUGE
SERIES:	STRIATO



KEY PLAN
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SHEET TITLE
FINISH LEVEL - GROUND LEVEL 'C'

ID-103

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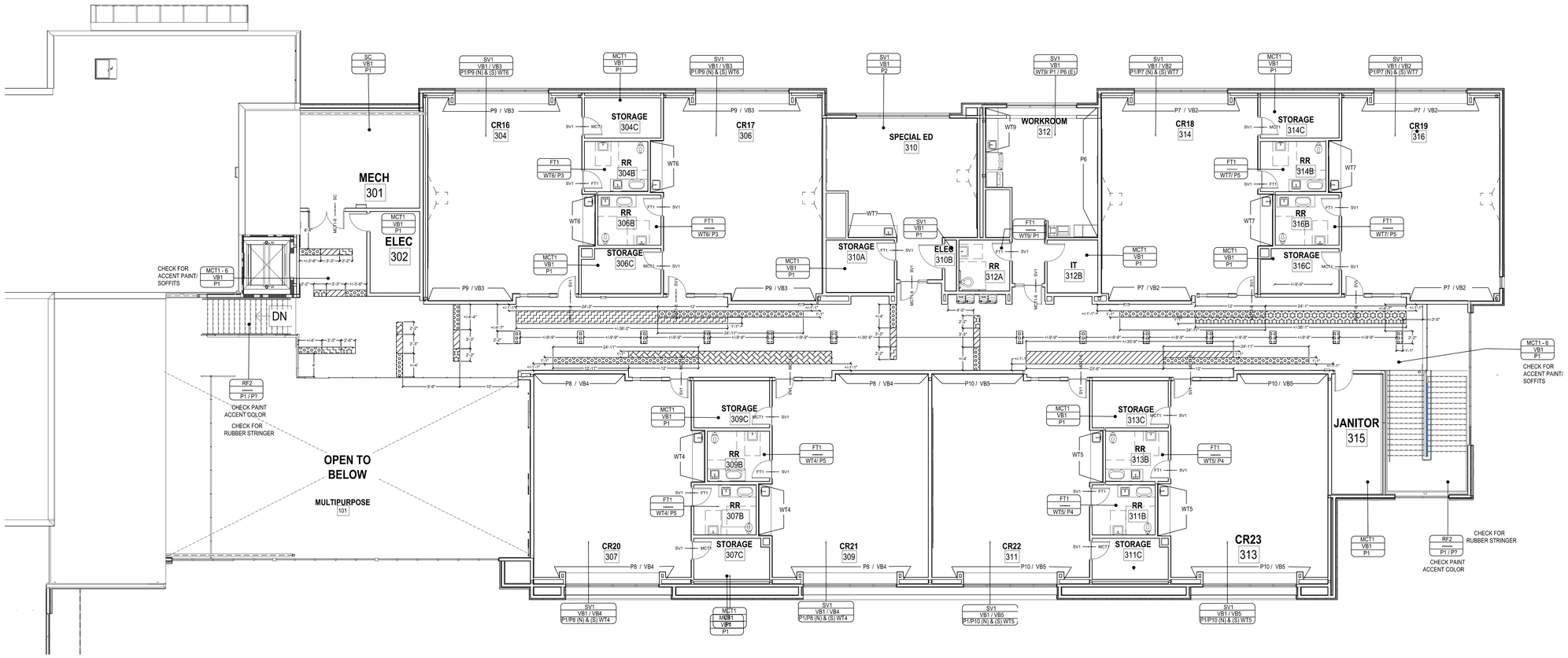
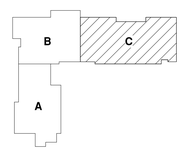


A1 FINISH PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"



KEY PLAN
N.T.S.

FLOOR PATTERN LEGEND

VINYL TILE/ SHEET GOODS

LINOLEUM TILE - 13" X 13"

MFG: FORBO FLOORING
COLLECTION: MCT TILE - 2.0 GAUGE
SERIES: ESSENTIALS

MCT1	COLOR:	#	MCT- 3888 STONE
MCT2	COLOR:	#	MCT - 3238 LAGUNA
MCT3	COLOR:	#	MCT - 3030 BLUE
MCT4	COLOR:	#	MCT - 3260 LEAF
MCT5	COLOR:	#	MCT - 3282 MOSS

MFG: FORBO FLOORING
COLLECTION: MCT TILE - 2.0 GAUGE
SERIES: ELEMENTAL

MCT6	COLOR:	#	MCT - 3601 WARM GREY

SHEET LINOLEUM

MFG: FORBO FLOORING
COLLECTION: MARMOLEUM SHEET - 2.5 GAUGE
SERIES: STRIATO

SV1	COLOR:	#	5232 ROCKY ICE

* NOTE: HEAT WELD ALL SEAMS - COLOR: TBD

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SHEET TITLE
FINISH LEVEL - UPPER LEVEL 'C'

ID-104

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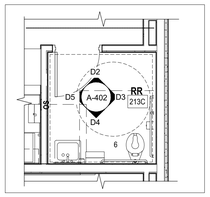
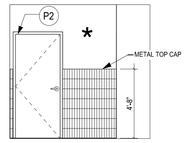
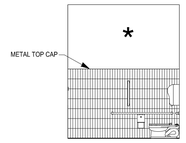


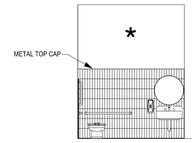
D1 ENLARGED PLAN - CHILD RR
1/4" = 1'-0"



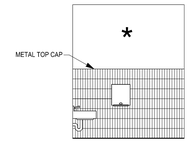
D2 CHILD RR - SIDE 1
1/4" = 1'-0"



D3 CHILD RR- FIXTURE
1/4" = 1'-0"



D4 CHILD RR - SIDE 2
1/4" = 1'-0"



D5 CHILD RR - BACK
1/4" = 1'-0"

TYPICAL CHILD RR - WALL TILE 2"X8" COLOR INDICATED HERE

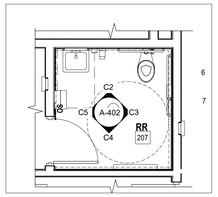
TYPICAL CHILD RR - PAINT COLOR INDICATED HERE

WALL FINISHES - TYP. CHILD RR
CERAMIC TILE
MFG: DALTILE - 2" x 8"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
PAINT - ACCENT
MFG: SHERMAN WILLIAMS/BENJAMIN MORE
UPPER LEVEL

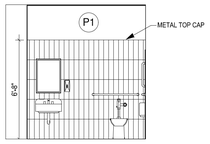
WT4 - EMERALD RR-307B RR-309B	* P5 - SW-6441 WHITE MINT RR-107B RR-109B RR-214B RR-218B
WT5 - SEA BREEZE RR-311B RR-313B	* P4 - 794 PARADISE VIEW RR-111B RR-113B RR-210B RR-212B
WT6 - OCEAN BLUE RR-304B RR-306B	* P3 - 765 SKYSCRAPER RR-104B RR-106B RR-209B RR-211B
WT7 - GREEN APPLE RR-314B RR-316B	* P5 - SW-6441 WHITE MINT RR-221B RR-220B RR-114B RR-116B

WALL FINISHES - TYP. CHILD RR
CERAMIC TILE
MFG: DALTILE - 2" x 8"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
PAINT - ACCENT
MFG: SHERMAN WILLIAMS/BENJAMIN MORE
UPPER LEVEL

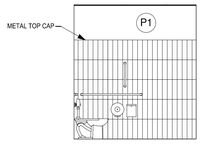
WT4 - EMERALD RR-307B RR-309B	* P5 - SW-6441 WHITE MINT RR-107B RR-109B RR-214B RR-218B
WT5 - SEA BREEZE RR-311B RR-313B	* P4 - 794 PARADISE VIEW RR-111B RR-113B RR-210B RR-212B
WT6 - OCEAN BLUE RR-304B RR-306B	* P3 - 765 SKYSCRAPER RR-104B RR-106B RR-209B RR-211B
WT7 - GREEN APPLE RR-314B RR-316B	* P5 - SW-6441 WHITE MINT RR-221B RR-220B RR-114B RR-116B



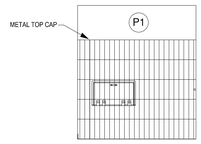
C1 ENLARGED PLAN - ADULT RR
1/4" = 1'-0"



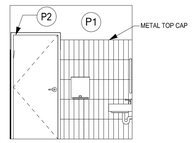
C2 TYP. RESTROOM - SIDE 1
1/4" = 1'-0"



C3 TYP. RESTROOM - FIXTURE
1/4" = 1'-0"



C4 TYP. RESTROOM - SIDE 2
1/4" = 1'-0"



C5 TYP. RESTROOM - BACK
1/4" = 1'-0"

TYPICAL ADULT RR - WALL TILE 4"X16" COLOR INDICATED HERE

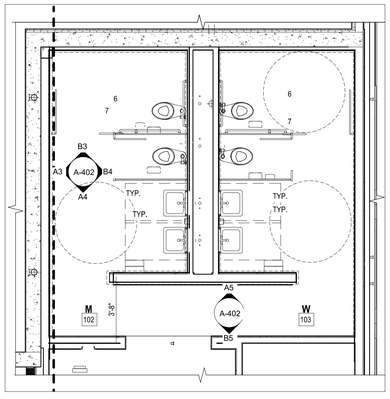
TYPICAL ADULT RR - PAINT COLOR INDICATED HERE

WALL FINISHES - TYP. ADULT RR
CERAMIC TILE
MFG: DALTILE - 4"X16"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
GROUND/LOWER LEVEL

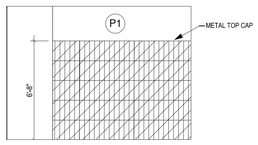
WT9 - URBAN PUTTY
RR-112A
RR-207
RR-213C
RR-222

WALL FINISHES - TYP. ADULT RR
CERAMIC TILE
MFG: DALTILE - 4"X16"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
UPPER LEVEL

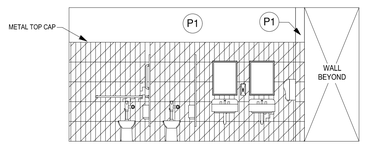
WT9 - URBAN PUTTY
RR-312A



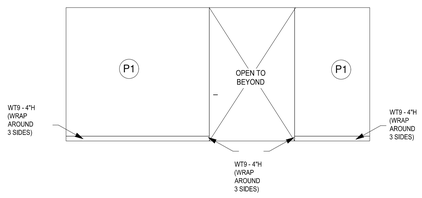
A1 ENLARGED PLAN - RR 102 & RR 103
1/4" = 1'-0"



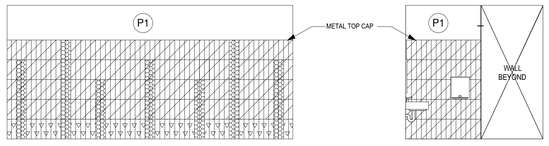
B3 RR 102 & 103 - NORTH
1/4" = 1'-0"



B4 RR 102 - EAST & 103 WEST
1/4" = 1'-0"

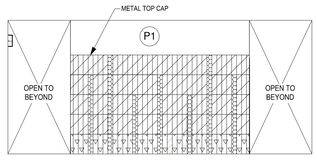


B5 VESTIBULE RR 102 & 103 - SOUTH
1/4" = 1'-0"



A3 RR 102 - WEST & 103 EAST
1/4" = 1'-0"

A4 RR 102 & 103 - SOUTH
1/4" = 1'-0"



A5 VESTIBULE RR 102 & 103 - NORTH
1/4" = 1'-0"

TYPICAL ADULT GANG RR - WALL TILE 4"X16" COLOR INDICATED HERE

TYPICAL ADULT RR - PAINT COLOR INDICATED HERE

PAINT WALL FINISHES

P1 — MFG: SHERWIN WILLIMAS
COLOR: # SW-7006 EXTRA WHITE
NOTE: GENERAL WALL COLOR

P2 — MFG: SHERWIN WILLIAMS
COLOR: # SW 9170 ACIER
NOTE: HMD & WINDOW FRAME

P6 HC-172 REVERE PEWTER
MFG: BENJAMIN MOORE
COLOR: # HC-172 REVERE PEWTER
NOTE: ACCENT WALLS

WALL FINISHES - TYP. ADULT GANG RR
CERAMIC TILE
MFG: DALTILE - 4" x 16"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
GROUND/LOWER LEVEL

WT8 - #0790 (1) MATTE ARCTIC WHITE
RR-102
RR-103

WT9 - #0161 (2) URBAN PUTTY
RR-102
RR-103

WT10 - #X114 (1) DESERT GRAY
RR-102
RR-103

TILE LOCATION ON PLAN

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
REGISTERED ARCHITECT

ARCHITECT ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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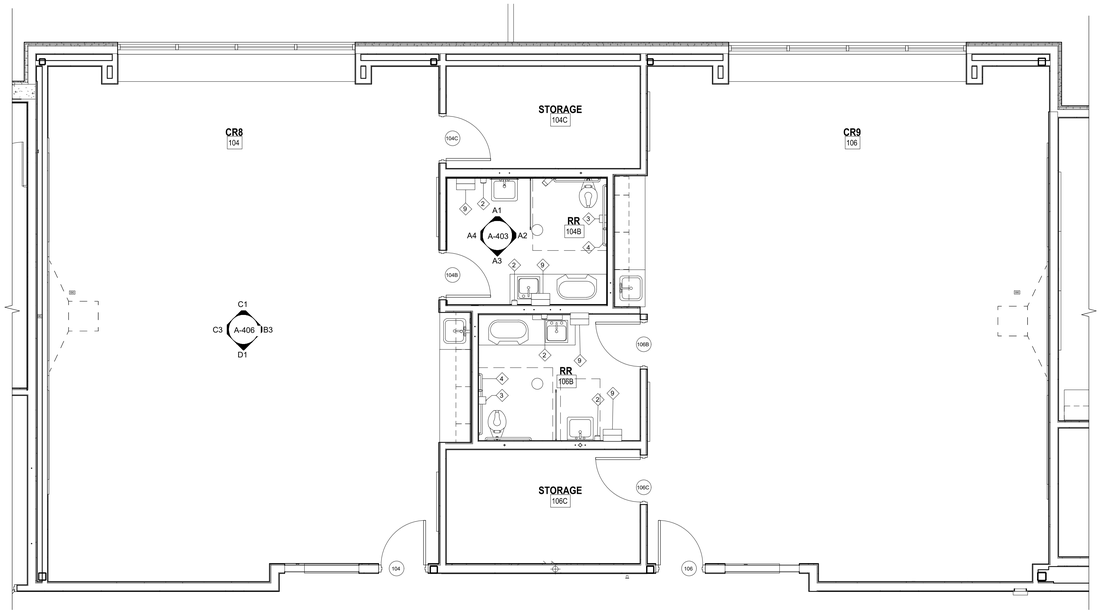
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
ENLARGED PLANS & ELEVATIONS - RESTROOMS

ID-402

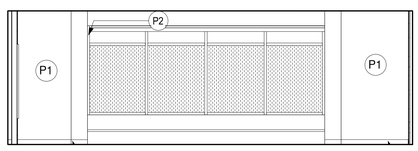
2/25/2024 10:23:18 AM

Farmington Preschool Academy

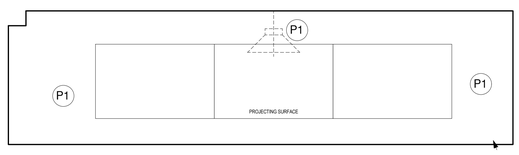


D1 ENLARGED PLAN - TYPICAL CLASSROOM
1/4" = 1'-0"

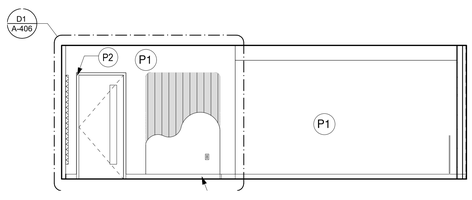
*



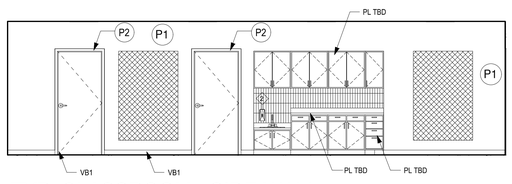
C1 TYP. CLASSROOM - WINDOW WALL
1/4" = 1'-0"



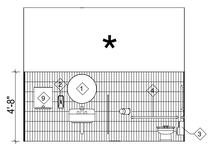
C3 TYP. CLASSROOM - INSTRUCTION WALL
1/4" = 1'-0"



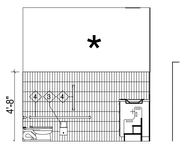
B1 TYP. CLASSROOM - ENTRY WALL
1/4" = 1'-0"



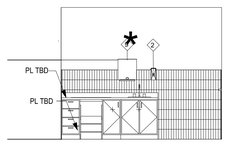
B3 TYP. CLASSROOM - SIDE WALL
1/4" = 1'-0"



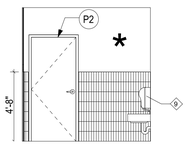
A1 FIXTURE WALL
1/4" = 1'-0"



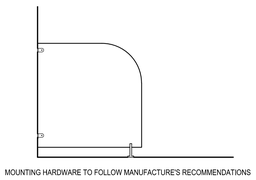
A2 SIDE WALL 1
1/4" = 1'-0"



A3 CHANGING
1/4" = 1'-0"



A4 SIDE WALL 2
1/4" = 1'-0"



MOUNTING HARDWARE TO FOLLOW MANUFACTURE'S RECOMMENDATIONS

A5 RR - PRIVACY PARTITION
1/2" = 1'-0"

WALL FINISHES - TYP. CLASSROOM

CERAMIC TILE
MFG: DALTILE - 2" x 8"
SERIES: COLOR WHEEL - LINEAR GLAZED CERAMIC
PAINT - ACCENT
MFG: SHERMAN WILLIAMS/BENJAMIN MORE

GROUND/LOWER/UPPER LEVELS

WT4 - EMERALD		* P5 - SW-6441 WHITE MINT	
CR12-107		CR12-107	
CR13-109		CR13-109	
CR3-214		CR3-214	
CR4-218		CR4-218	
WT5 - SEA BREEZE		* P4 - 794 PARADISE VIEW	
CR14-111		CR14-111	
CR15-113		CR15-113	
CR1-210		CR1-210	
CR2-212		CR2-212	
WT6 - OCEAN BLUE		* P3 - 765 SKYSCRAPER	
CR8-104		CR8-104	
CR9-106		CR9-106	
CR7-209		CR7-209	
OP/FP-211		OP/FP-211	
WT7 - GREEN APPLE		* P5 - SW-6441 WHITE MINT	
CR6-221		CR6-221	
CR5-220		CR5-220	
CR10-114		CR10-114	
CR11-116		CR11-116	

PAINT WALL FINISHES

P1 MFG: SHERWIN WILLIMAS
COLOR: # SW-7006 EXTRA WHITE
NOTE: GENERAL WALL COLOR

P2 MFG: SHERWIN WILLIAMS
COLOR: # SW 9170 ACIER
NOTE: HMD & WINDOW FRAME

P6 HC-172 REVERE PEWTER
MFG: BENJAMIN MOORE
COLOR: # HC-172 REVERE PEWTER
NOTE: ACCENT WALLS

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ARCHITECT ENGINEER

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CHECKED BY:	Checker

SHEET TITLE
ENLARGED PLANS & ELEVATIONS - CLASSROOMS

A-403

2/25/2024 10:23:42 AM

Farmington Preschool Academy

FIRE PROTECTION SYMBOL LEGEND

SECTION SYMBOL

A — SECTION LETTER
FX100 — DRAWING NUMBER WHERE DETAILED

DETAIL SYMBOL

1 — DETAIL NUMBER
FX500 — DRAWING NUMBER WHERE DETAILED

SECTION, ELEVATION, AND DETAIL TITLES

SECTION LETTER / DRAWING NUMBER WHERE DETAILED — FX300 — SECTION

DETAIL NUMBER / DRAWING NUMBER WHERE DETAILED — FX500 — DETAIL

ELEVATION LETTER / DRAWING NUMBER WHERE DETAILED — FX200 — ELEVATION

SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
FIRE PROTECTION	F	EX. F
POST INDICATOR VALVE	PIV	PIV
REDUCED PRESSURE BACKFLOW PREVENTER		
FIRE HYDRANT	F.H.	F.H.(E)
FIRE DEPARTMENT INLET CONNECTION	F.D.C.	F.D.C.
VALVE WITH VALVE BOX		
CONSTRUCTION		
FENCING		

FIRE FLOW DATA

TEST DATE:	10/2/2023
TEST LOCATION:	MAIN AT COUNTRY CLUB ELEM.
WATER PRESSURE ZONE:	N/A
TEST ELEVATION:	N/A
REQUESTED LOADING:	1000 GPM
(IF MODELED BY THE MUNICIPALITY)	
PEAK STATIC PRESSURE:	80 PSI
RESIDUAL PRESSURE:	70 PSI
FLOWING GPM:	1000 GPM
(IF NOT MODELED BY THE MUNICIPALITY)	

SCHEMATIC SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
XX		KEYED NOTE
		POINT OF CONNECTION TO EXISTING
X X X X X		EXISTING PIPE TO BE REMOVED
		NEW PIPING
		EXISTING PIPING TO REMAIN
		NEW PIPE CONNECTION TO EXISTING PIPING
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		SIDE CONNECTION
		UNION
		FLANGED UNION
		ORIFICE UNION
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		PIPE GUIDE
		FLEXIBLE CONNECTION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		PRESSURE GAUGE AND GAUGE COCK
		TEST PLUG (PRESS/TEMP)
		PENETRATION
	MAV	MANUAL AIR VENT (MAV)
A	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD	FLOOR SINK , FLOOR DRAIN , AREA DRAIN
		SLOPE OF PIPE
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIBB
	TP	TRAP PRIMER WITH ACCESS PANEL
		WATER MOTOR GONG
		ALARM BELL
		FIRE HOSE CABINET
		FIRE HOSE VALVE CABINET
		CLEAN AGENT FIRE SUPPRESSION
		DISCHARGE NOZZLE
		AUDIO/VISUAL ALARM
C.P.		CONTROL PANEL

PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
CA	CA	COMPRESSED AIR
FP	FP	FIRE PROTECTION; WET PIPE
DFP	DFP	FIRE PROTECTION; DRY PIPE
SP	SP	STANDPIPE; WET
DSP	DSP	STANDPIPE; DRY
DP	DP	DRY PIPE/PRE-ACTION FIRE PROTECTION

FIRE PROTECTION-INTERIOR

SYMBOL	DESCRIPTION
●	PENDENT STYLE HEAD/DRY TYPE AS NOTED
○	UPRIGHT STYLE HEAD/DRY TYPE AS NOTED
◁	SIDEWALL STYLE HEAD/DRY TYPE AS NOTED

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
BOP	BOTTOM OF PIPE
DN	DOWN
EL	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FT	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT

VALVE SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
FP		ROOF MANIFOLD
FDC	FDC	FIRE DEPARTMENT INLET CONNECTION
FDC (E)	(E)FDC	EXISTING FIRE DEPARTMENT INLET CONNECTION
FP	FP	WET PIPE FIRE RISER
FP DFP	DFP	DRY PIPE FIRE RISER
FP DP		DELUGE/PREACTION FIRE RISER
FP D		INSPECTOR'S TEST CONNECTION (HORIZONTAL)
FP D		INSPECTOR'S TEST CONNECTION (VERTICAL)
		STANDPIPE VALVE
		FLOW CONTROL VALVE
		FLOW SWITCH
		GATE VALVE
		GLOBE VALVE
		OS&Y VALVE
		BUTTERFLY VALVE
OR OR		BALL VALVE
OR		CHECK VALVE
		WATER PRESSURE REDUCING VALVE
		AUTO BALL DRIP VALVE
		PRESSURE RELIEF VALVE
		TEMPERATURE AND PRESSURE RELIEF VALVE
		DRAIN VALVE
		VALVE IN VERTICAL
		FLOW SWITCH
		DIAPHRAGM (PROCESS SYSTEMS)
		REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
		ATMOSPHERIC VACUUM BREAKER
		PRESSURE STYLE VACUUM BREAKER

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ILIR MESITI
NEW MEXICO
20505
ENGINEER
Digitally signed by Ilir Mesiti
Date: 2024.03.21 17:44:00 -06'00'

ENGINEER

FARMINGTON PRESCHOOL ACADEMY
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FARMINGTON, NM 87402

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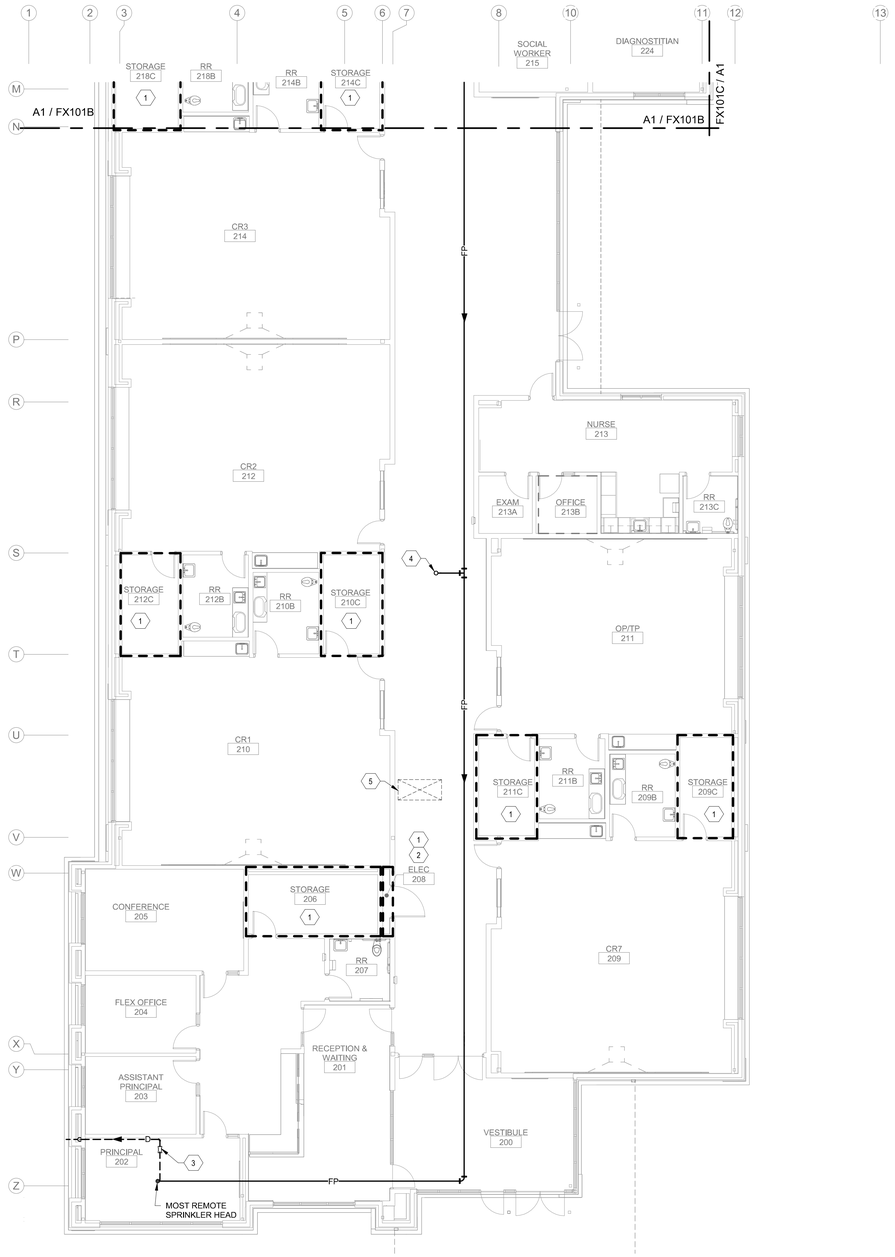
PROJECT NO:	K23-001
DRAWN BY:	MAR/PCN/MJS
CHECKED BY:	IM

SHEET TITLE
FIRE PROTECTION LEGEND

FX001

Bridgers & Paxton Project No: 8819 3/21/2024 4:57:33 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



A1 FIRE PROTECTION FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INDICATE MINIMUM WORK AND MINIMUM STANDARDS FOR EQUIPMENT, MATERIALS, AND PROCEDURES. THE SPRINKLER CONTRACTOR SHALL COMPLY WITH **NFPA 13** AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (**AHJ**).

B. THE SPRINKLER CONTRACTOR'S ATTENTION IS CALLED TO THE VERY UNIQUE ARCHITECTURAL DETAILS OF THE FACILITY AND THE SENSITIVITY OF PLUMBING AND FIRE SPRINKLER PIPE AND HEAD LOCATIONS. THE SPRINKLER CONTRACTOR SHALL WORK CLOSELY WITH THE ARCHITECT IN LOCATING ALL VISIBLE MATERIALS AND INCORPORATE REQUIRED ADJUSTMENTS.

C. THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND **HYDRAULIC CALCULATIONS** TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

D. ALL EQUIPMENT AND MATERIALS SHALL CONFORM TO NFPA STANDARDS AND BE UL LISTED.

E. SPRINKLER SYSTEMS SHALL BE DESIGNED TO REFLECT THE REQUIREMENTS OF **NFPA 13**, THROUGHOUT ENTIRE BUILDING, UNLESS NOTED OTHERWISE.

F. THE SPRINKLER CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MECHANICAL, PLUMBING, ELECTRICAL AND OTHER TRADES, PRIOR TO FABRICATION AND DURING INSTALLATION.

G. THE CONTRACTOR SHALL SUPPLY AND INSTALL AN INSPECTORS TEST CONNECTION (ITC) FOR EACH SPRINKLER SYSTEM. RUN THROUGH EXTERIOR WALLS WHERE APPROVED BY ARCHITECT / ENGINEER.

H. THE ARCHITECT SHALL APPROVE THE AESTHETICS OF THE SPRINKLER HEADS AND EXPOSED PIPING LAYOUT.

I. UNLESS NOTED OTHERWISE, MAXIMUM SPRINKLER HEAD COVERAGE SHALL BE 225 SQ.FT. PER HEAD IN LIGHT HAZARD (**DENSITY OF 0.10 GPM/1500 SQ. FT.**) AREAS.

J. THE SPRINKLER CONTRACTOR SHALL BASE THEIR DESIGN ON THE LATEST ARCHITECTURAL AND MECHANICAL DRAWINGS AND ACTUAL FIELD CONDITIONS BEFORE ANY FABRICATION OR INSTALLATION OF THE PROPOSED SPRINKLER WORK.

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M. PROVIDE PENDANT AND UPRIGHT SPRINKLERS IN ALL CONCEALED COMBUSTIBLE SPACES.

N. REFER TO CEILING TILE DETAIL **D5/FX501** FOR SPRINKLER HEAD LOCATIONS IN CEILING TILES.

O. PROVIDE HORIZONTAL DRY SIDEWALL SPRINKLERS AT CANOPIES/OVERHANGS/UNHEATED STAIRWELLS.

P. FIRE PROTECTION MAIN RUN PIPE SIZING SHOWN MAY BE REDUCED IN ACCORDANCE WITH **NFPA STANDARDS**, PROVIDED HYDRAULIC CALCULATIONS AND SHOP DRAWINGS DEMONSTRATE THE ADEQUACY OF THE SMALLER PIPING.

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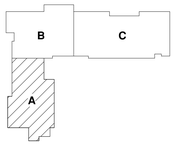
R. PROVIDE SIDEWALL SPRINKLER HEADS AT TOP OF SKYLIGHTS.

S. REFER TO **A1/FX601** FOR FIRE RISER DIAGRAM.

KEYNOTES

1. PROVIDE ORDINARY HAZARD GROUP 1 COVERAGE AT DESIGN DENSITY OF 0.15 GPM/1,500 SQ.FT.
2. SUPPLY THIS SPACE WITH A DEDICATED BRANCH LINE. NO OTHER PIPING SHALL RUN THROUGH THIS ROOM. FIRE PROTECTION PIPING TO AVOID ALL ELECTRICAL CLEARANCES.
3. INSPECTORS TEST DRAIN, REFER TO DETAIL **A4/FX501**. DISCHARGE TO THE EXTERIOR OF BUILDING IN CODE COMPLIANT MANNER.
4. FIRE PROTECTION MAIN UP TO SERVE PENTHOUSE ABOVE.
5. MECHANICAL DUCT DROP FROM PENTHOUSE, ROUTE FIRE PROTECTION PIPING TO AVOID THIS AREA.



KEY PLAN N.T.S.

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ILIR MESITI NEW MEXICO 20505 ENGINEER
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ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

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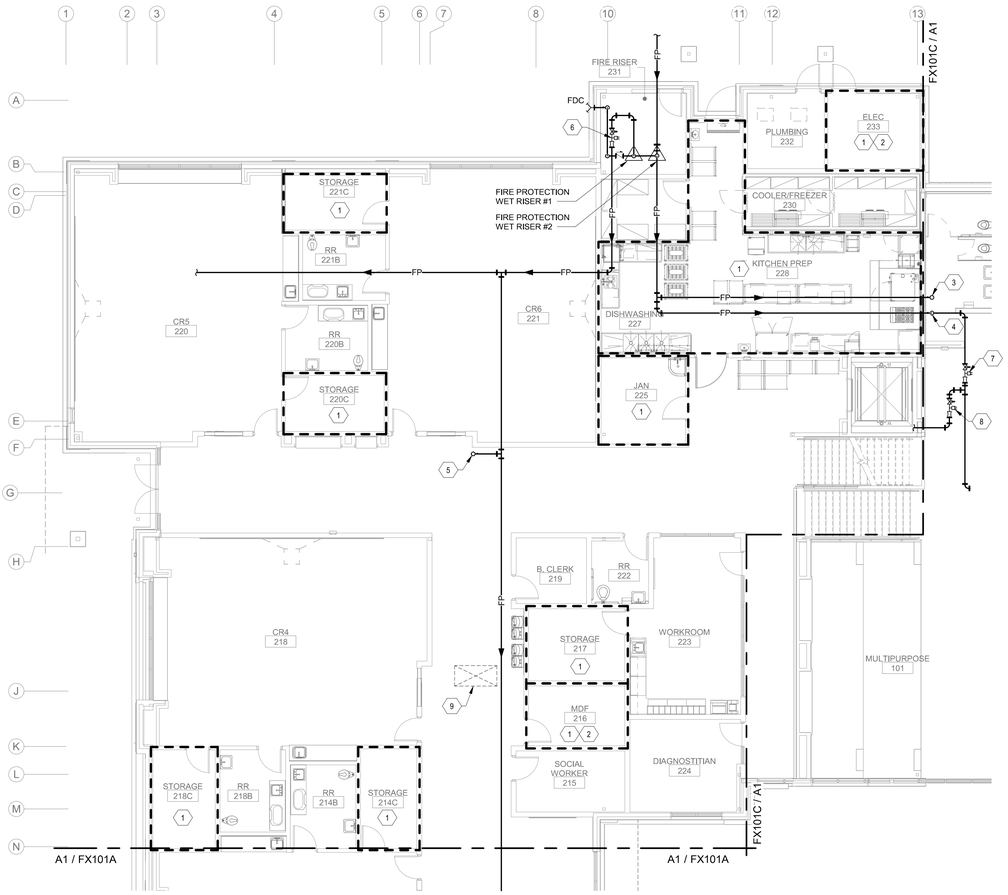
FIRE PROTECTION FLOOR PLAN - GROUND LEVEL 'A'

FX101A

Bridgers & Paxton Project No: 8819 3/21/2024 4:57:34 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



A1 FIRE PROTECTION FLOOR PLAN - GROUND LEVEL 'B'
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S. REFER TO **A1/FX601** FOR FIRE RISER DIAGRAM.

KEYNOTES

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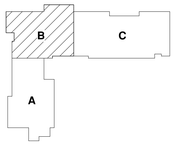
2. SUPPLY THIS SPACE WITH A DEDICATED BRANCH LINE. NO OTHER PIPING SHALL RUN THROUGH THIS ROOM. FIRE PROTECTION PIPING TO AVOID ALL ELECTRICAL CLEARANCES.
3. ROUTE FIRE PROTECTION MAIN (ZONE 2B) UP TO LEVEL 2 CEILING SPACE.
4. ROUTE FIRE PROTECTION MAIN (ZONE 2A) DOWN TO LEVEL 1 CEILING SPACE.
5. FIRE PROTECTION MAIN UP TO SERVE PENTHOUSE ABOVE.
6. FLOOR CONTROL ASSEMBLY, SERVING 1ST LEVEL (AREA A & B). REFER TO SHEET FX601 FOR ADDITIONAL INFORMATION.
7. FLOOR CONTROL ASSEMBLY, SERVING 1ST LEVEL (AREA C). REFER TO SHEET FX601 FOR ADDITIONAL INFORMATION.
8. FLOOR CONTROL ASSEMBLY, SERVING ELEVATOR. REFER TO SHEET FX601 FOR ADDITIONAL INFORMATION.
9. MECHANICAL DUCT DROP FROM PENTHOUSE, ROUTE FIRE PROTECTION PIPING TO AVOID THIS AREA.



KEY PLAN N.T.S.

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ILIR MESITI
NEW MEXICO
20505
PROFESSIONAL ENGINEER
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Date: 2024.03.21 17:55:24 -06'00'
Product Name:

ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

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FIRE PROTECTION FLOOR PLAN - GROUND LEVEL 'B'

FX101B

Bridgers & Paxton Project No: 8819 3/21/2024 4:57:35 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy

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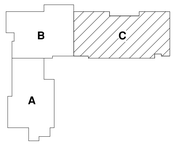

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ILIR MESITI NEW MEXICO 20205 PROFESSIONAL ENGINEER
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17:42:03 -06'00'
ENGINEER

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FX101C

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O. PROVIDE HORIZONTAL DRY SIDEWALL SPRINKLERS AT CANOPIES/OVERHANGS/UNHEATED STAIRWELLS.

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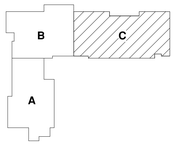
Q. ALL FIRE PROTECTION PIPE AND ASSOCIATED DRAIN SIZES SHALL BE HYDRAULICALLY CALCULATED BY THE SPRINKLER CONTRACTOR.

R. PROVIDE SIDEWALL SPRINKLER HEADS AT TOP OF SKYLIGHTS.

S. REFER TO **A1/FX601** FOR FIRE RISER DIAGRAM.

A1 FIRE PROTECTION FOOR PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN
N.T.S.

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CONSTRUCTION DOCUMENTS
MARCH 2024

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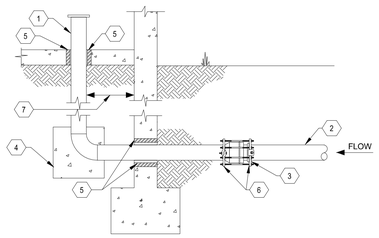
SHEET TITLE
FIRE PROTECTION FLOOR PLAN - UPPER LEVEL 'C'

FX102C

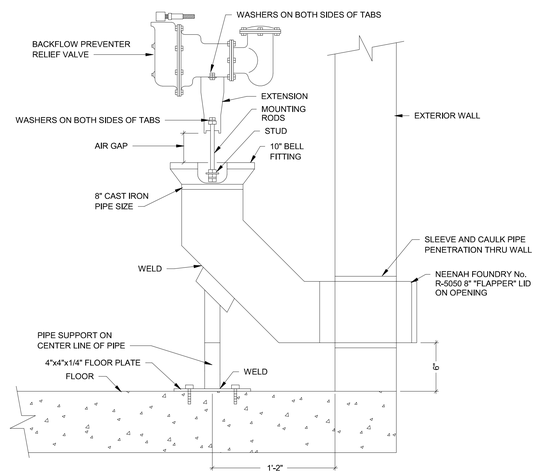
Bridgers & Paxton Project No: 8819 3/21/2024 4:57:38 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



1. AMES IN-BUILDING RISER. STAINLESS STEEL TYPE 304. SEE FIRE PROTECTION PLANS FOR SIZE AND SERVICE
2. DUCTILE IRON OR PVC WATER SERVICE.
3. MECHANICAL JOINT FROM SUPPLY PIPE TO STAINLESS STEEL. CONTINUE INTO BUILDING WITH STAINLESS STEEL.
4. CONCRETE THRUST BLOCK SIZED IN ACCORDANCE WITH IBC IF REQUIRED BY AHJ
5. PIPE SLEEVE, SEE SPECIFICATIONS
6. MEGALUG PIPE RESTRAINT HARNESS
7. VERTICAL SECTION OF RISER LOCATED AS CLOSE AS POSSIBLE TO WALL

C1 FIRE SUPPLY ENTRY THRU FOOTING DETAIL

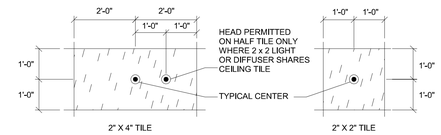
SCALE: NOT TO SCALE



C4 FIRE RPZ CATASTROPHIC DRAIN DETAIL

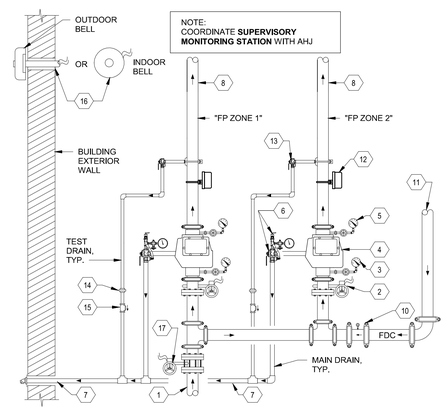
SCALE: NOT TO SCALE

NOTE:
ON CEILING TILES THAT ARE LESS THAN FULL HEAD SHALL BE CENTERED IN ALL DIRECTIONS



D5 FIRE SPRINKLER CEILING TILE DETAIL

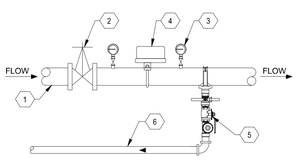
SCALE: NOT TO SCALE



1. FROM FIRE PROTECTION MAIN SUPPLY LINE, SEE PLANS FOR SIZE AND SERVICE.
2. INDICATING CONTROL VALVE, NORMALLY OPEN, COORDINATE WIRING WITH DIVISION 26, TYPICAL EACH RISER.
3. SUPPLY PRESSURE WATER GAUGE, VALVE & UNION, TYPICAL EACH RISER.
4. ALARM CHECK VALVE, TYPICAL EACH RISER.
5. SYSTEM PRESSURE WATER GAUGE, VALVE & UNION, TYPICAL EACH RISER.
6. FULL SIZED MAIN DRAIN VALVE WITH UL/FM LISTED SYSTEM PRESSURE RELIEF VALVE AND GAUGE, TYPICAL EACH RISER.
7. DRAIN TO EXTERIOR, DISCHARGE IN A CODE COMPLIANT MANNER.
8. TO WET SPRINKLER SYSTEM "FP ZONE".
9. TEST CONTROL VALVE WITH TAMPER SWITCH, USED FOR FORWARD FLOW TEST (NORMALLY CLOSED), COORDINATE WIRING WITH DIVISION 26, TYPICAL EACH ZONE.
10. LINE SIZE FDC CHECK VALVE, LOCATE CLOSE TO RISER.
11. FROM FIRE DEPARTMENT CONNECTION (FDC).
12. FLOW SWITCH, LOCATE & INSTALL PER THE LATEST NFPA REQUIREMENTS FOR "AUDIBLE SIGNALS/SOUNDERS". COORDINATE WIRING WITH DIVISION 26, TYPICAL EACH RISER.
13. UL/FM LISTED TEST DRAIN VALVE LOCATED DOWNSTREAM OF FLOW SWITCH TO SIMULATE "SPRINKLER HEAD DISCHARGE", TYPICAL OF EACH RISER.
14. LINE SIZE UNION, TYPICAL.
15. LINE SIZE CHECK VALVE, TYPICAL.
16. ELECTRIC ALARM BELL, LOCATED & INSTALLED PER LATEST NFPA 13 REQUIREMENTS. COORDINATE WIRING WITH DIVISION 26. PROVIDE WATERPROOF BACK BOX IF LOCATED OUTDOORS.
17. MAIN SUPPLY INDICATING CONTROL VALVE, NORMALLY OPEN. COORDINATE WIRING WITH DIVISION 26.

A5 TWO SPRINKLER ALARM VALVE W/ELECTRIC ALARM BELL

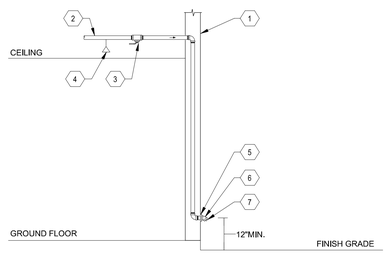
SCALE: NOT TO SCALE



1. MAIN LINE
2. INDICATING TYPE FLOOR CONTROL VALVE WITH SUPERVISORY SWITCH
3. PRESSURE GAUGE, TYPICAL
4. FLOW SWITCH, COORDINATE WIRING WITH LATEST NFPA REQUIREMENTS FOR "AUDIBLE SIGNALS/SOUNDERS"
5. INSPECTORS TEST CONNECTION, SEE DETAIL **XXXXX**
6. DRAIN, SEE PLANS FOR SIZE AND LOCATION

A1 FLOOR CONTROL ASSEMBLY

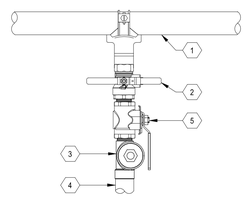
SCALE: NOT TO SCALE



1. EXTERIOR WALL
2. 1" SUPPLY FROM SPRINKLER SYSTEM ZONE
3. READILY ACCESSIBLE, 1" TEST & DRAIN VALVE WITH SIGNAGE (NORMALLY CLOSED)
4. MOST REMOTE SPRINKLER HEAD
5. 1" GALVANIZED WALL PLATE
6. 1" GALVANIZED 45 DEGREE ELBOW
7. SMOOTH BORE CORROSION RESISTANT OUTLET WITH FLOW EQUAL TO ONE SPRINKLER WITH SMALLEST ORIFICE

A3 INSPECTORS TEST DRAIN VALVE

SCALE: NOT TO SCALE



1. SPRINKLER MAIN, SEE PLANS FOR SIZE AND LOCATION
2. TEST VALVE, FM/UL LISTED.
3. SIGHT GLASS, FM/UL LISTED.
4. DISCHARGE DRAIN LINE, SEE PLANS FOR SIZE AND LOCATION
5. DRAIN VALVE, FM/UL LISTED.

A4 INSPECTORS TEST CONNECTION

SCALE: NOT TO SCALE

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FIRE PROTECTION DETAILS

FX501

GENERAL NOTES

A. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INDICATE MINIMUM WORK AND MINIMUM STANDARDS FOR EQUIPMENT, MATERIALS, AND PROCEDURES. THE SPRINKLER CONTRACTOR SHALL COMPLY WITH **NFPA 13** AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (**AHJ**).

B. THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND **HYDRAULIC CALCULATIONS** TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

C. SPRINKLER SYSTEMS SHALL BE DESIGNED TO REFLECT THE REQUIREMENTS OF **NFPA 13**, THROUGHOUT ENTIRE BUILDING, UNLESS NOTED OTHERWISE.

D. THE SPRINKLER CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE MECHANICAL, PLUMBING, ELECTRICAL AND OTHER TRADES, PRIOR TO FABRICATION AND DURING INSTALLATION.

E. THE SPRINKLER CONTRACTOR SHALL BASE THEIR DESIGN ON THE LATEST ARCHITECTURAL AND MECHANICAL DRAWINGS AND ACTUAL FIELD CONDITIONS BEFORE ANY FABRICATION OR INSTALLATION OF THE PROPOSED SPRINKLER WORK.

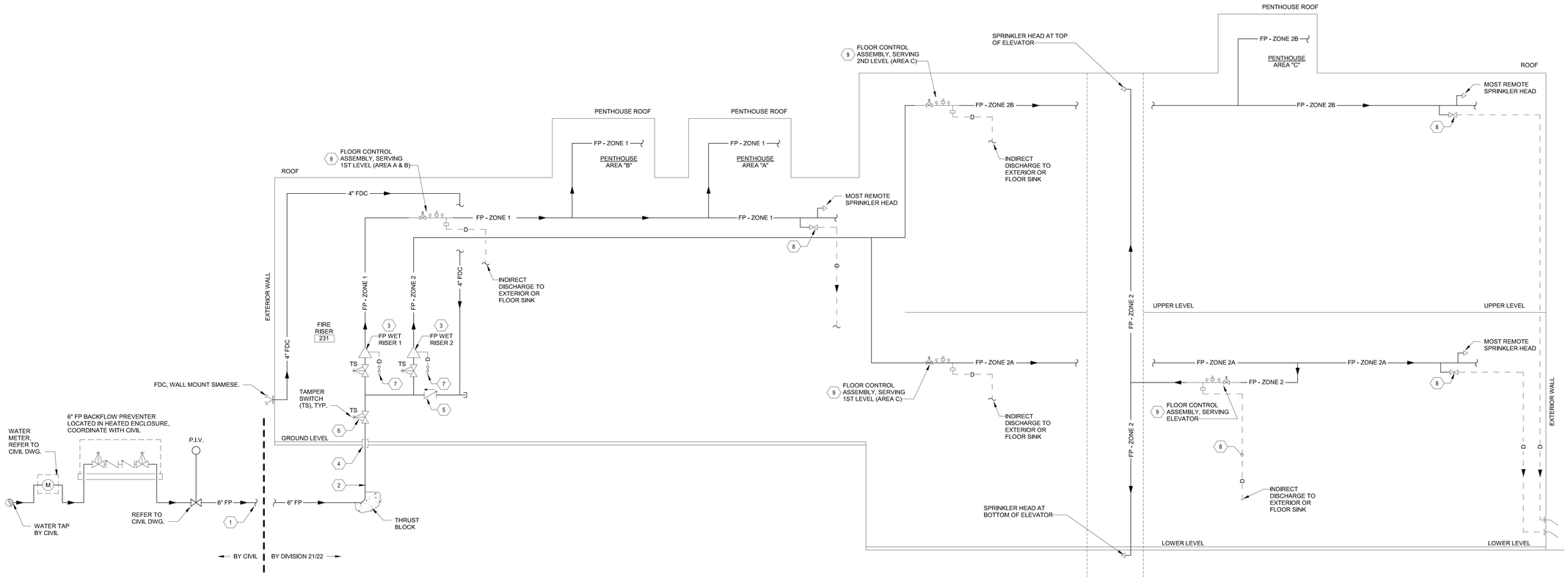
F. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

G. FIRE PROTECTION MAIN RUN PIPE SIZING SHOWN MAY BE REDUCED IN ACCORDANCE WITH **NFPA STANDARDS**, PROVIDED HYDRAULIC CALCULATIONS AND SHOP DRAWINGS DEMONSTRATE THE ADEQUACY OF THE SMALLER PIPING.

H. ALL FIRE PROTECTION PIPE AND ASSOCIATED DRAIN SIZES SHALL BE HYDRAULICALLY CALCULATED BY THE SPRINKLER CONTRACTOR.

KEYNOTES

1. 6" FIRE SERVICE ENTRANCE. REFER TO CIVIL FOR CONTINUATION.
2. REFER TO FIRE SUPPLY ENTRY THRU FOOTING DETAIL **C1/FX501**. SEE DRAWING **FX101A** FOR PIPING INTO BLDG.
3. SPRINKLER ALARM VALVE. SEE SPRINKLER ALARM VALVE DETAIL **A5/FX501**.
4. 8" SLEEVE THRU FLOOR.
5. WAFER CHECK VALVE.
6. INDICATING BUTTERFLY VALVE.
7. 2" MAIN DRAIN. DRAIN TO OUTSIDE IN A CODE COMPLIANT MANNER.
8. INSPECTORS TEST DRAIN. DRAIN TO OUTSIDE IN A CODE COMPLIANT MANNER. REFER TO DETAILS **A3/FX501 & A4/FX501**.
9. FLOOR CONTROL ASSEMBLY, (TYPICAL). REFER TO DETAIL **A1/FX501**.



A1 FIRE PROTECTION RISER DIAGRAM

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FIRE PROTECTION DIAGRAMS

FX601

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Farmington Preschool Academy

PLUMBING SYMBOL LEGEND

PLUMBING FIXTURE & EQUIPMENT SYMBOL

P## — LETTER REFERS TO PLUMBING FIXTURE
NUMBER AND/OR LOWERCASE LETTER REFERS TO SPECIFIC CATEGORY
SYMBOL INDICATES FIXTURE IDENTIFIED IN FIXTURE SCHEDULE
ex. P1a WATER CLOSET (BARRIER FREE)

TMV-1 — LETTER REFERS TO PLUMBING EQUIPMENT
NUMBER REFERS TO SPECIFIC EQUIPMENT COUNT
SYMBOL INDICATES EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE

P1	WATER CLOSETS
P2	URINALS
P3	LAVATORIES
P4	SINKS
P5	SERVICE SINKS
P6	WATER COOLERS/DRINKING FOUNTAINS
P7	SHOWERS/BATHTUBS
P8	WATER HAMMERS/SHOCK ABSORBERS
P9	HOSE BIBBS
P10	HYDRANTS
P11	SUPPLY BOXES
P12	WASHER BOXES
P13	EYEWASH/EYEWASH SHOWERS
P14	CLINIC SINKS
P15	TRAP PRIMER
FD1	FLOOR DRAINS
FS1	FLOOR SINKS
RD1	ROOF DRAINS
ORD1	OVERFLOW DRAINS
DSN1	DOWNSPOUT NOZZLES
AD1	AREA DRAINS
DD1	DECK DRAINS

TMV-1	THERMOSTATIC MIXING VALVE
DWH-1	DOMESTIC WATER HEATER
EWH-1	ELECTRIC WATER HEATER
IWH-1	INSTANTANEOUS WATER HEATER
RCP-1	RECIRCULATION PUMP
EXP-1	EXPANSION TANK
RPZ-1	REDUCED PRESSURE ZONE BACKFLOW
BFP-1	DOUBLE CHECK BACKFLOW
GI-1	GREASE INTERCEPTOR
OI-1	OIL INTERCEPTOR
OS-1	OIL/SAND INTERCEPTOR
AN-1	ACID NEUTRALIZER
LI-1	LINT INTERCEPTOR
GM-1	GAS METER
REG-1	REGULATOR
WPRV-1	WATER PRESSURE REDUCING VALVE
ETP-1	ELECTRONIC TRAP PRIMER

NOTE: NOT ALL FIXTURE & EQUIPMENT SYMBOLS APPLY TO THIS PROJECT

SECTION SYMBOL

A / P-100 — SECTION LETTER; DRAWING NUMBER WHERE DETAILED

DETAIL SYMBOL

1 / P-500 — DETAIL NUMBER; DRAWING NUMBER WHERE DETAILED

SECTION, ELEVATION, AND DETAIL TITLES

SECTION LETTER / DRAWING NUMBER WHERE DETAILED — A / P-300 — SECTION / SCALE

DETAIL NUMBER / DRAWING NUMBER WHERE DETAILED — 1 / P-500 — DETAIL / SCALE

ELEVATION LETTER / DRAWING NUMBER WHERE DETAILED — A / P-200 — ELEVATION / SCALE

PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
AV	AV	ACID VENT
AW	AW	ACID WASTE
CA	CA	COMPRESSED AIR
CND	CND	CONDENSATE DRAIN
DCW	DCW	DOMESTIC COLD WATER
DHW	DHW	DOMESTIC HOT WATER
DHWR	DHWR	DOMESTIC HOT WATER RETURN
DHW 140ºF	DHW 140ºF	140° DOMESTIC HOT WATER
DHWR 140ºF	DHWR 140ºF	140° DOMESTIC HOT WATER RETURN
ROS	ROS	REVERSE OSMOSIS SUPPLY
ROR	ROR	REVERSE OSMOSIS RETURN
MU	MU	MAKE-UP WATER
NPW	NPW	NON-POTABLE WATER
V	V	VENT
DIS	DIS	DEIONIZED WATER SUPPLY
DIR	DIR	DEIONIZED WATER RETURN
SAN	SAN	SANITARY SEWER
GW	GW	GREASE WASTE
GV	GV	GREASE VENT
RD	RD	STORM/ROOF DRAIN
ORD	ORD	OVERFLOW ROOF DRAIN
LPG	LPG	LIQUEFIED PETROLEUM GAS
G @14"w.c.	G @14"w.c.	NATURAL GAS-LOW PRESSURE
G @2PSIG	G @2PSIG	NATURAL GAS-MEDIUM PRESSURE
G @5PSIG	G @5PSIG	NATURAL GAS-HIGH PRESSURE (5+ PSIG)
IRR	IRR	IRRIGATION
SCW	SCW	SOFT COLD WATER
SHW	SHW	SOFT HOT WATER
SHWR	SHWR	SOFT HOT WATER RETURN
TWR (_ _ _)	TWR	TEMPERED WATER RETURN (TEMP °F)
TW (_ _ _)	TW	TEMPERED WATER (TEMP °F)
PD	PD	PUMPED DISCHARGE LINE
ICW	ICW	INDUSTRIAL COLD WATER
IHW	IHW	INDUSTRIAL HOT WATER
IHWR	IHWR	INDUSTRIAL HOT WATER RETURN
INW	INW	INDUSTRIAL WASTE
IA	IA	INSTRUMENT COMPRESSED AIR
IW	IW	INDIRECT WASTE
LA	LA	LAB COMPRESSED AIR

SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
SANITARY SEWER	S	EX. S
COLD WATER SUPPLY	W	EX. W
FIRE PROTECTION	F	EX. F
NATURAL GAS	G	EX. G
STORM DRAIN	SD	EX. SD
IRRIGATION	IRR	EX. IRR
VALVE WITH VALVE BOX		
FIRE HYDRANT	F.H.	F.H.(E)
FIRE DEPARTMENT INLET CONNECTION	F.D.C.	F.D.C.
CONSTRUCTION		
THRUST BLOCK		
CLEANOUT	SAS C.O.	SAS C.O.(E)
POWER POLE	PP	PP
FENCING		
LIGHT POLE	LP	LP
WATER METER	WM	WM
NATURAL GAS METER	GM	GM
GATE VALVE		
VALVE IN RISER		
POST INDICATOR VALVE	PIV	PIV
REDUCED PRESSURE BACKFLOW PREVENTER		
SANITARY MANHOLE	SAS M.H.	SAS M.H.(E)
SLOPE AND LINEAL FOOTAGE	255' OF 6" @ 0.15%SLOPE	

VALVE SYMBOLS

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
S	SOLENOID VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
OR OR	BALL VALVE
OR	CHECK VALVE
OR	PLUG VALVE
	BALANCING VALVE/CIRCUIT SETTER DEVICE
	WATER PRESSURE REDUCING VALVE
	REGULATING/SUSTAINING VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	FUEL GAS PRESSURE REGULATOR
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	DRAIN VALVE
	VALVE IN VERTICAL
	FLOW SWITCH
	DIAPHRAGM (PROCESS SYSTEMS)
	REDUCED PRESSURE BACKFLOW PREVENTER (RPZ)
	ATMOSPHERIC VACUUM BREAKER
	PRESSURE STYLE VACUUM BREAKER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
AVTR	ACID RESISTANT VENT THROUGH ROOF
B.C.	BALANCING COCK
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CWB	CLOTHES WASHER BOX
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	CIRCULATION PUMP
CWV	COMBINATION WASTE AND VENT
DCO	DOUBLE CLEANOUT
DCOTG	DOUBLE CLEANOUT TO GRADE
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
EL	ELEVATION
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
EEW	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER EYE WASH
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FT	FEET
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FV	FLUSH VALVE
GD	GUTTER DRAIN
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
kW	KILOWATT
MBh	1,000 BTUH
MV	MIXING VALVE
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
Rh	POWERS OF HARDNESS
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT
WCO	WALL CLEANOUT
WC	WATER CLOSET
w.c.	INCHES IN WATER COLUMN, PRESSURE

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

SCHEMATIC SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
XX		KEYED NOTE
		POINT OF CONNECTION TO EXISTING
		EXTENT OF DEMOLITION
XXXXX		EXISTING PIPE TO BE REMOVED
		NEW PIPING
		EXISTING PIPING TO REMAIN
		NEW PIPE CONNECTION TO EXISTING PIPING
		SLOPE OF PIPE
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		SIDE CONNECTION
		UNION
		FLANGED UNION
		ORIFICE UNION
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		PIPE GUIDE
		FLEXIBLE CONNECTION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		THERMOMETER
		PRESSURE GAUGE AND GAUGE COCK
		AQUASTAT
OR		WATER HAMMER ARRESTOR
		TEST PLUG (PRESS/TEMP)
		PENETRATION
	MAV	MANUAL AIR VENT (MAV)
A	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD	FLOOR SINK , FLOOR DRAIN , AREA DRAIN
	FCO/COTG	FLOOR CLEANOUT/CLEANOUT TO GRADE
	DCOTG	TWO WAY OR DOUBLE CLEANOUT TO GRADE
	RD/ORD/DD	ROOF DRAIN/OVERFLOW DRAIN/DECK DRAIN
	TP	TRAP PRIMER WITH ACCESS PANEL
	VTR	VENT THROUGH ROOF
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIB
	WCO	WALL CLEANOUT

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CONSTRUCTION DOCUMENTS
MARCH 2024

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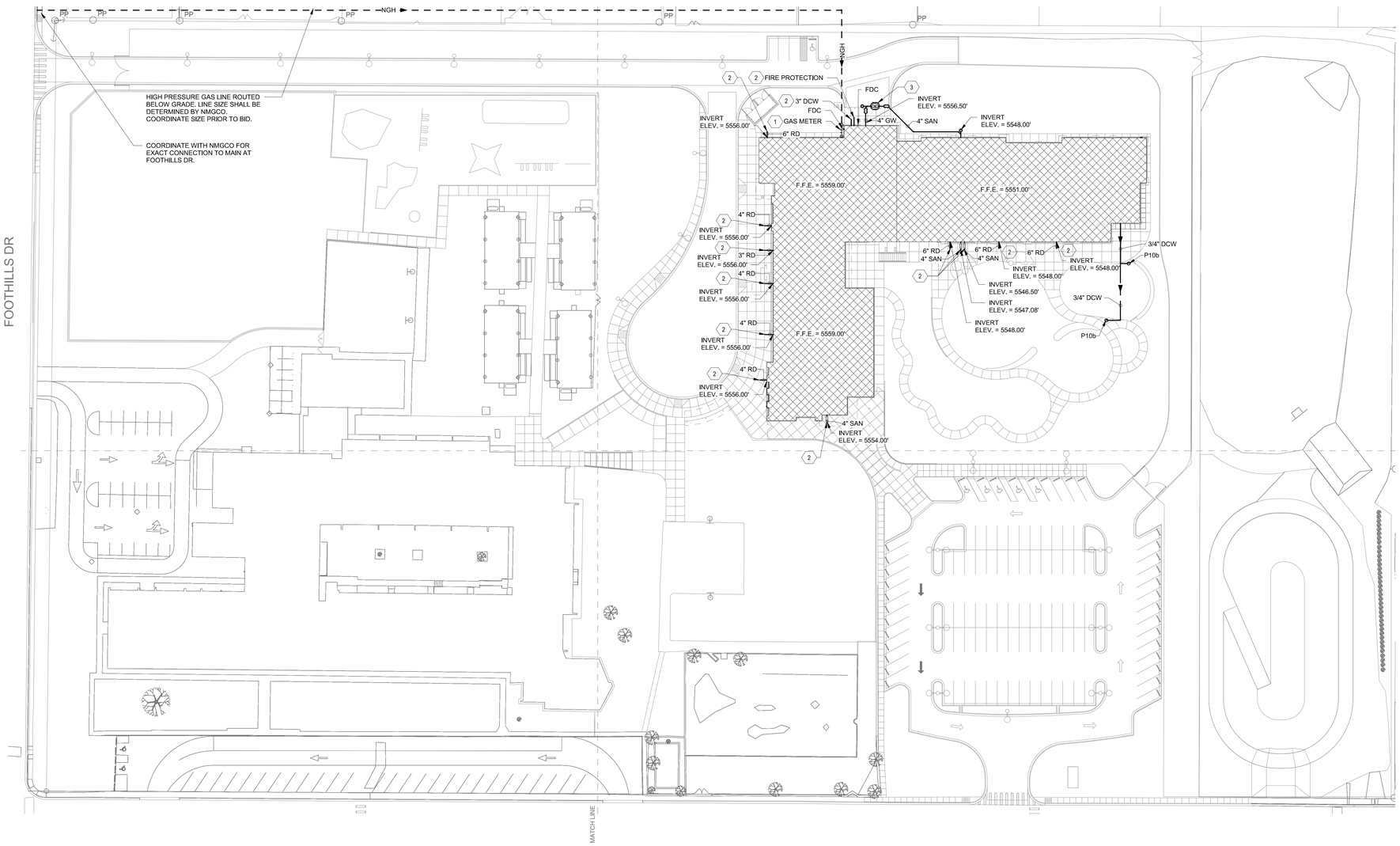
SHEET TITLE
PLUMBING LEGEND

P-001



A1 PLUMBING SITE PLAN
1" = 40'-0"

0' 20' 40' 80'

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE NMGCO AS TO LOCATION AND SCHEDULING OF TIE-INS / CONNECTIONS PRIOR TO CONNECTING TO EXISTING MAINS.

B. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.

C. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO BACKFILLING.

D. DRAWINGS MAY NOT SHOW ALL EXISTING UTILITIES.

E. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.

F. ONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE NMGCO WITH REGARDS TO MATERIALS AND INSTALLATION OF THE NATURAL GAS LINES PRIOR TO THE METER ASSEMBLY.

G. CONTRACTOR SHALL COORDINATE WITH PLUMBING PLANS, NMGCO AND CIVIL FOR NATURAL GAS SERVICE BEFORE COMMENCING ANY UTILITY WORK.

H. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF EXISTING AND NEW SLOPED PAVING, RAMPS, SIDEWALKS AND BUILDING ENTRANCE LOCATIONS WITH LOCATION AND SIZE OF DOWNSPOUTS.

I. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF THE SITE.

J. COORDINATE NATURAL GAS PIPE ROUTING BELOW GRADE WITH CIVIL SITE UTILITY PLANS AND ELECTRICAL SITE PLANS.

K. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES

KEYNOTES

1. REFER TO C3/P-401 FOR CONTINUATION.
2. REFER TO CIVIL FOR CONTINUATION.
3. REFER TO SHEET PL101B FOR ADDITIONAL SANITARY PIPING AND EQUIPMENT INFORMATION AND REQUIREMENTS.

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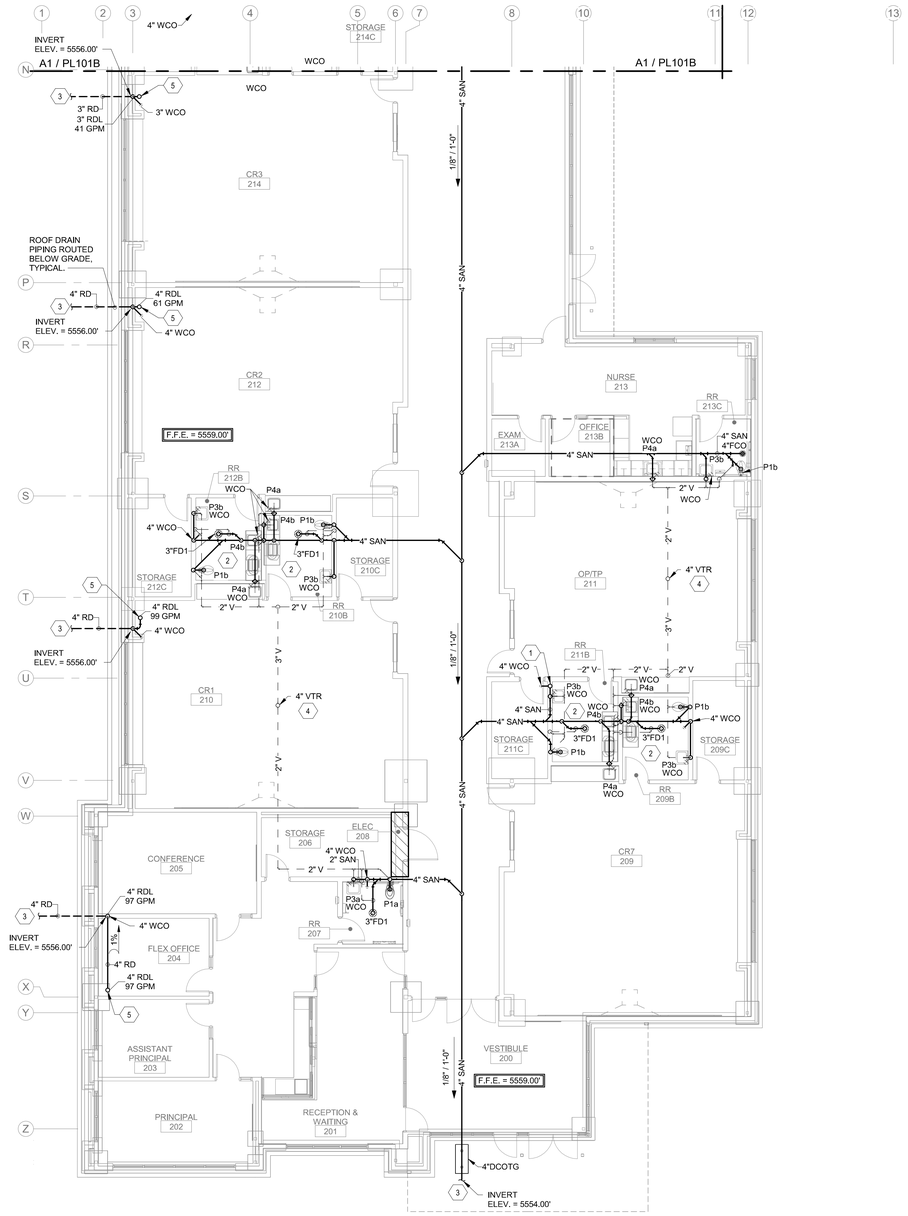
SHEET TITLE

PLUMBING SITE PLAN

PS101

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:34 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanche24.rvt
Farmington Preschool Academy



A1 WASTE & VENT FLOOR PLAN - GROUND LEVEL 'A'

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

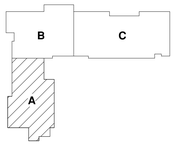
F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

G. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.

H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.

KEYNOTES

1. 4" SANITARY PIPING ROUTED DOWN FROM THE PENTHOUSE ABOVE. PROVIDE WITH 4" CLEANOUT BEFORE GOING BELOW GRADE.
2. REFER TO ENLARGED PLAN A1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
3. REFER TO CIVIL FOR CONTINUATION.
4. VENT THRU ROOF. MAINTAIN 10 FT FROM ALL FRESH AIR INTAKES. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS.
5. ROOF DRAIN LEADER PIPING DOWN FROM ROOF ABOVE. ROUTE AS HIGH AS POSSIBLE AND SLOPE TO DRAIN. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS. SIZE PER PLAN.
6. DOUBLE CLEAN OUT TO GRADE. REFER TO DETAIL A5/P-502 FOR ADDITIONAL INFORMATION.



KEY PLAN

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SHEET TITLE

WASTE & VENT FLOOR PLAN - GROUND LEVEL 'A'

PL101A

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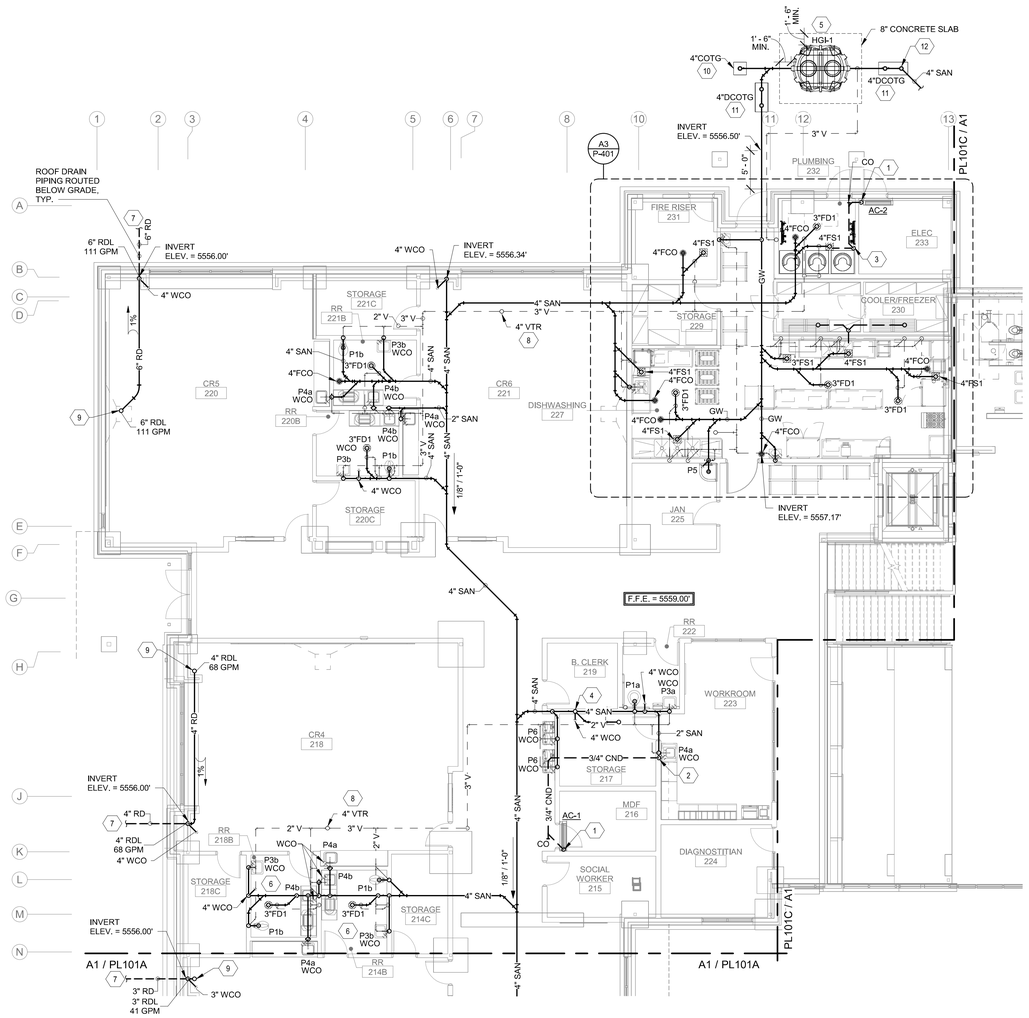
Farmington Preschool Academy



A1 WASTE & VENT FLOOR PLAN - GROUND LEVEL 'B'

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

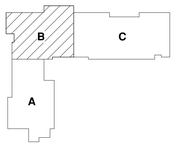
F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

G. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.

H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.

KEYNOTES

1. PUMPED 3/4" CONDENSATE DRAIN ROUTED UP AS HIGH AS POSSIBLE AND SLOPED TO GRAVITY DRAIN. CONNECT TO UNIT PER MANUFACTURERS REQUIREMENTS.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN IN WALL AND EXTEND TO P-TRAP. CONNECT TO TAIL PIECE ABOVE TRAP. REFER TO DETAIL C1/P-501.
3. ROUTE 3/4" CONDENSATE DRAIN DOWN ALONG WALL AND ROUTE TO NEAREST FLOOR SINK, TERMINATE INDIRECTLY WITH MINIMUM 2" AIR GAP ABOVE RIM.
4. 4" SANITARY PIPING ROUTED DOWN FROM THE PENTHOUSE ABOVE TO BELOW GRADE. PROVIDE WITH 4" CLEANOUT BEFORE GOING BELOW GRADE.
5. GREASE INTERCEPTOR (GI-1) INSTALLED BELOW GRADE. REFER TO SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION. INSTALL PER MANUFACTURES REQUIREMENTS AND PROVIDE 8" THICK REINFORCED CONCRETE SLAB AT FINISHED GRADE. CONCRETE SHALL HAVE A MINIMUM REQUIREMENT OF 28 DAY COMPRESSIVE STRENGTH TO 4,000 PSI WITH NO. 4 REBAR (Ø 1/2") GRADE 60 STEEL PER ASTM A615. CONNECTED WITH TIE WIRE. REBAR TO BE 2-1/2" FROM EDGE OF CONCRETE AND SPACED IN A 12" GRID WITH 4" SPACING AROUND ACCESS OPENINGS. 8" SLAB SHALL EXTEND 1'-6" ON ALL SIDES OF GREASE INTERCEPTOR.
6. REFER TO ENLARGED PLAN A1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
7. REFER TO CIVIL FOR CONTINUATION.
8. VENT THRU ROOF. MAINTAIN 10 FT FROM ALL FRESH AIR INTAKES. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS.
9. ROOF DRAIN LEADER PIPING DOWN FROM ROOF ABOVE. ROUTE AS HIGH AS POSSIBLE AND SLOPE TO DRAIN. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS. SIZE PER PLAN.
10. CLEAN OUT TO GRADE. REFER TO DETAIL A4/P-502 FOR ADDITIONAL INFORMATION.
11. DOUBLE CLEAN OUT TO GRADE. REFER TO DETAIL A5/P-502 FOR ADDITIONAL INFORMATION.
12. 4" DROP CLEANOUT. REFER TO SHEET PL101C FOR CONTINUATION.



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SHEET TITLE
WASTE & VENT FLOOR PLAN - GROUND LEVEL 'B'

PL101B

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Farmington Preschool Academy

KEYNOTES

1. PUMPED 3/4" CONDENSATE DRAIN ROUTED UP AS HIGH AS POSSIBLE AND SLOPED TO GRAVITY DRAIN. CONNECT TO UNIT PER MANUFACTURERS REQUIREMENTS.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN IN WALL AND EXTEND TO P-TRAP. CONNECT TO TAIL PIECE ABOVE TRAP. REFER TO DETAIL C1/P-501.
3. VENT ROUTED UP TO LEVEL 2 CEILING SPACE.
4. 4" SANITARY PIPING ROUTED DOWN FROM ABOVE. PROVIDE 4" WALL CLEANOUT BEFORE GOING BELOW GRADE.
5. REFER TO ENLARGED PLAN A1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
6. REFER TO CIVIL FOR CONTINUATION.
7. DUPLEX SUMP PUMP IN 30"x30"x30" PIT. COORDINATE SIZE AND LOCATION WITH STRUCTURAL AND ELEVATOR MANUFACTURER. REFER TO DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION.
8. ROOF DRAIN LEADER PIPING DOWN FROM ROOF ABOVE. ROUTE AS HIGH AS POSSIBLE AND SLOPE TO DRAIN. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS. SIZE PER PLAN.
9. CLEAN OUT TO GRADE. REFER TO DETAIL A4/P-502 FOR ADDITIONAL INFORMATION.
10. DOUBLE CLEAN OUT TO GRADE. REFER TO DETAIL A5/P-502 FOR ADDITIONAL INFORMATION.
11. CONNECT LINE SIZE PUMPED DRAIN TO SANITARY SEWER MAIN FROM THE TOP THROUGH A WYE BRANCH FITTING.
12. DUPLEX SUMP PUMP (SP-1) CONTROL PANEL MOUNTED ON WALL. REFER TO DETAIL D3/P-501 FOR ADDITIONAL INFORMATION.
13. 4" DROP CLEANOUT. REFER TO SHEET PL101B FOR CONTINUATION.

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

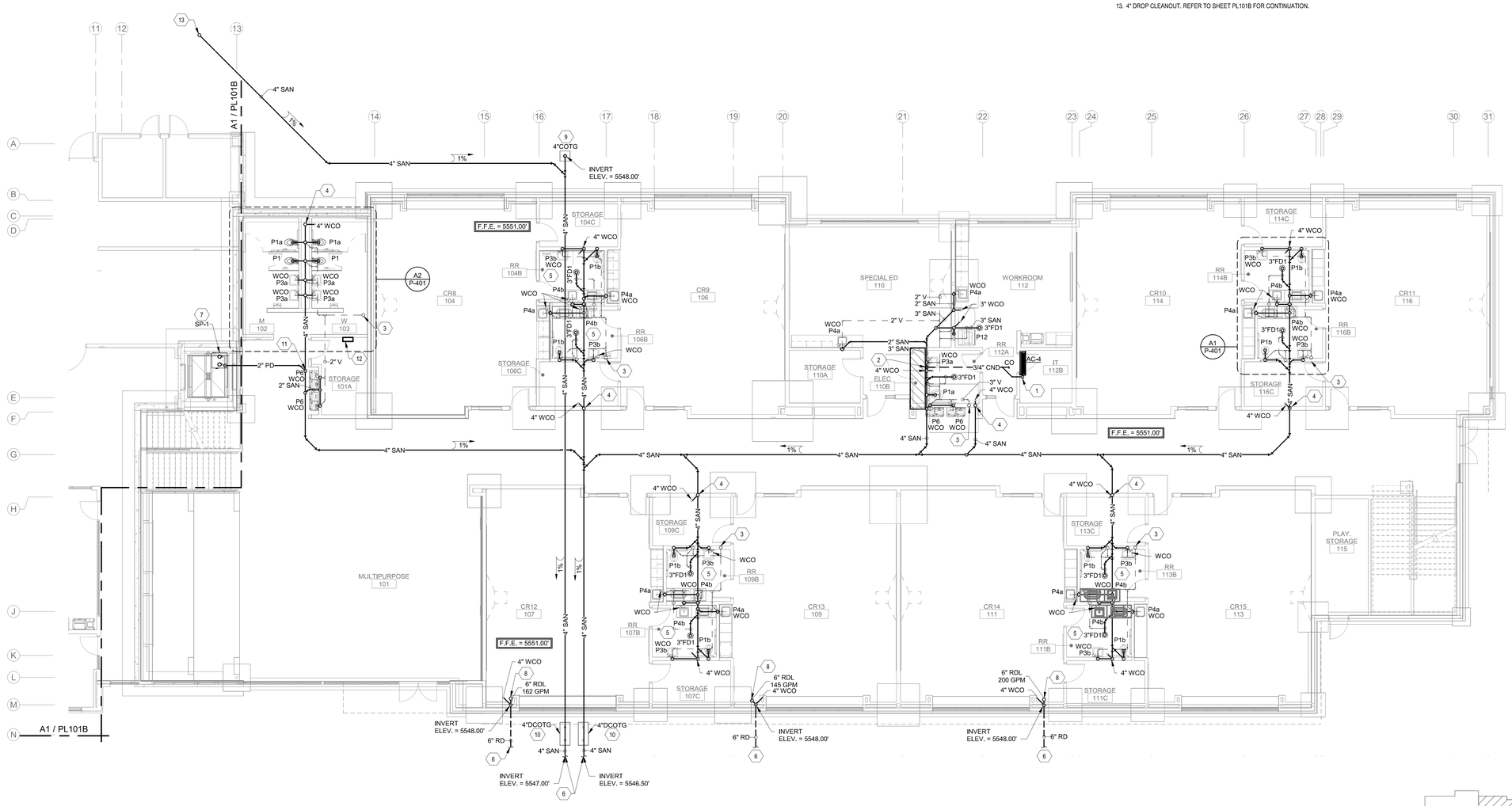
D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

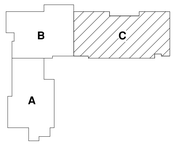
G. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.

H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.



A1 WASTE & VENT FLOOR PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

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CONSTRUCTION DOCUMENTS
MARCH 2024

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CHECKED BY:	IM

SHEET TITLE

WASTE & VENT FLOOR PLAN - LOWER LEVEL 'C'

PL101C

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:38 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt

Farmington Preschool Academy

KEYNOTES

1. PUMPED 3/4" CONDENSATE DRAIN ROUTED UP AS HIGH AS POSSIBLE AND SLOPED TO GRAVITY DRAIN. CONNECT TO UNIT PER MANUFACTURERS REQUIREMENTS.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN IN WALL AND EXTEND TO P-TRAP. CONNECT TO TAIL PIECE ABOVE TRAP. REFER TO DETAIL C1/P-501.
3. ROUTE 3/4" CONDENSATE DRAIN DOWN ALONG WALL AND ROUTE TO NEAREST FLOOR SINK, TERMINATE INDIRECTLY WITH MINIMUM 2" AIR GAP ABOVE RIM.
4. VENT ROUTED UP FROM LEVEL 1 CEILING SPACE BELOW.
5. 4" SANITARY ROUTED DOWN TO BELOW GRADE. PROVIDE WITH 4" CLEANOUT BEFORE GOING BELOW GRADE.
6. 4" SANITARY PIPING ROUTED DOWN FROM THE PENTHOUSE ABOVE. PROVIDE WITH 4" CLEANOUT BEFORE GOING BELOW FINISHED FLOOR.
7. REFER TO ENLARGED PLAN A1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
8. ROOF DRAIN LEADER PIPING DOWN FROM ROOF ABOVE. ROUTE AS HIGH AS POSSIBLE AND SLOPE TO DRAIN. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS. SIZE PER PLAN.
9. VENT THRU ROOF. MAINTAIN 10 FT FROM ALL FRESH AIR INTAKES. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS.
10. 3" VENT ROUTED UP TO PENTHOUSE ABOVE AND CONNECTED TO 4" VTR. REFER TO A4/P-402 FOR CONTINUATION.

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

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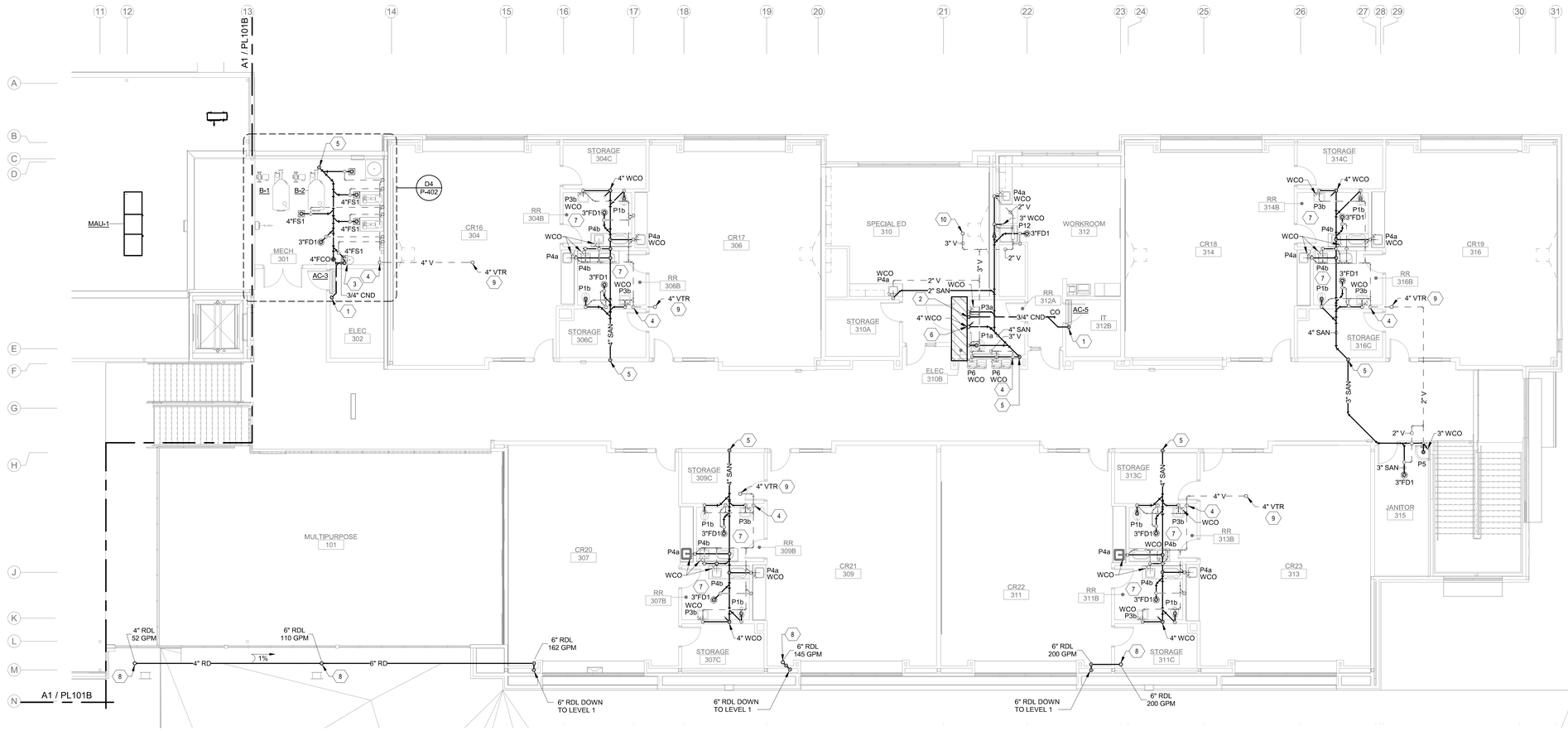
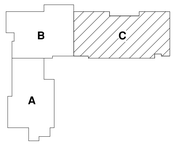


A1 WASTE & VENT FLOOR PLAN - UPPER LEVEL 'C'

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

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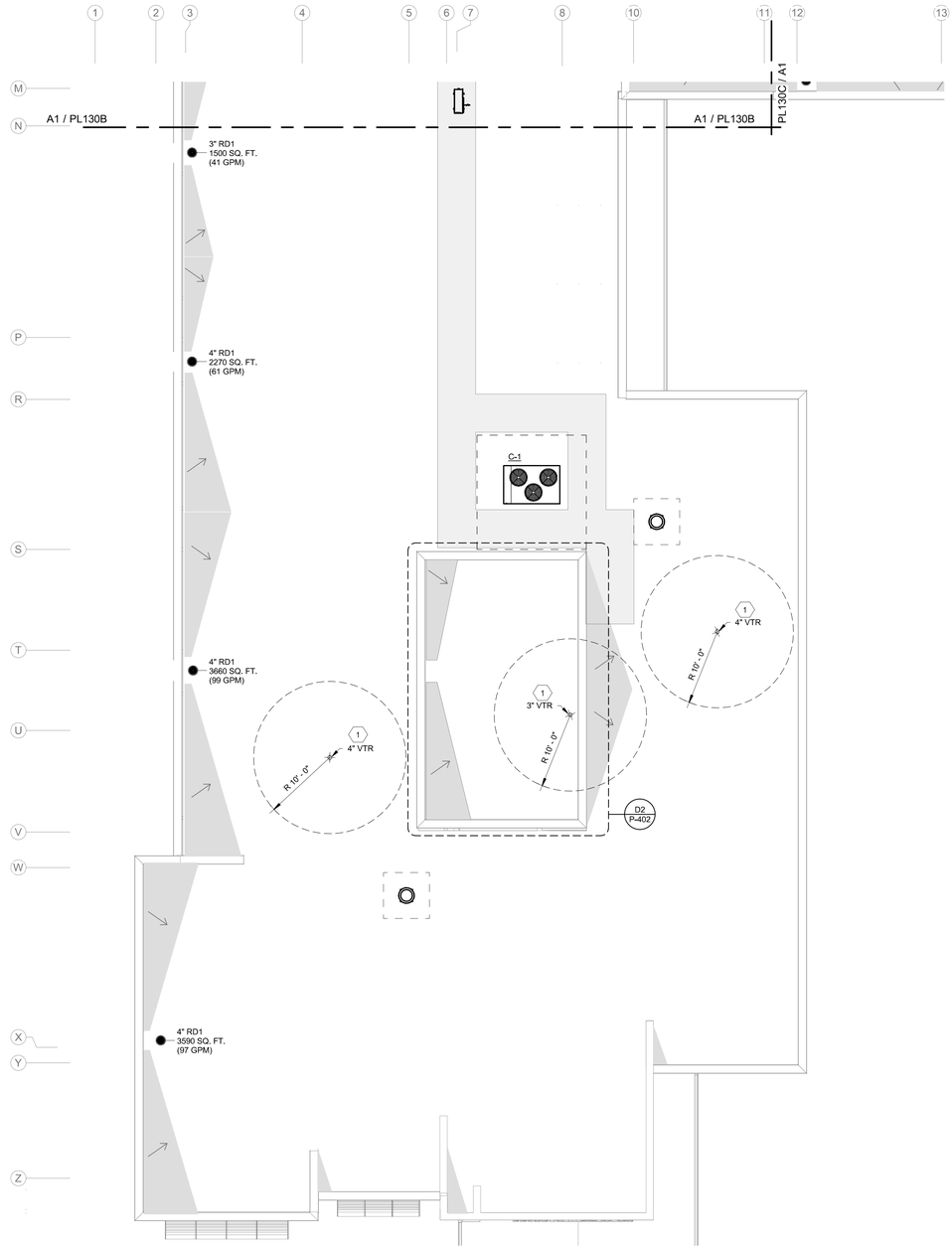
SHEET TITLE

WASTE & VENT FLOOR PLAN - UPPER LEVEL 'C'

PL102C

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:49 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



A1 PLUMBING ROOF PLAN - AREA A

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

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H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.

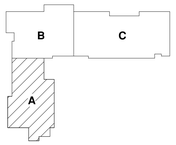
I. PROVIDE ROOF TOP PIPE SUPPORTS FOR NATURAL GAS AND CONDENSATE PIPING. SUPPORTS SHALL BE EATON DURA BLOK DBE VERICAL ADJUSTABLE SERIES WITH CLAMP/ROLLER FOR PIPING.

J. ALL EXPOSED GAS PIPING ON ROOF SHALL BE PAINTED SAFETY YELLOW WITH A RUST-RESISTANT EXTERIOR PAINT.

K. PROVIDE PIPING SUPPORTS FOR NATURAL GAS AND CONDENSATE PIPING AT 8 FT O.C. AND AT EVERY BRANCH AND TEE.

KEYNOTES

1. VENT THRU ROOF. MAINTAIN 10 FT FROM ALL FRESH AIR INTAKES. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS.



KEY PLAN

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PROFESSIONAL ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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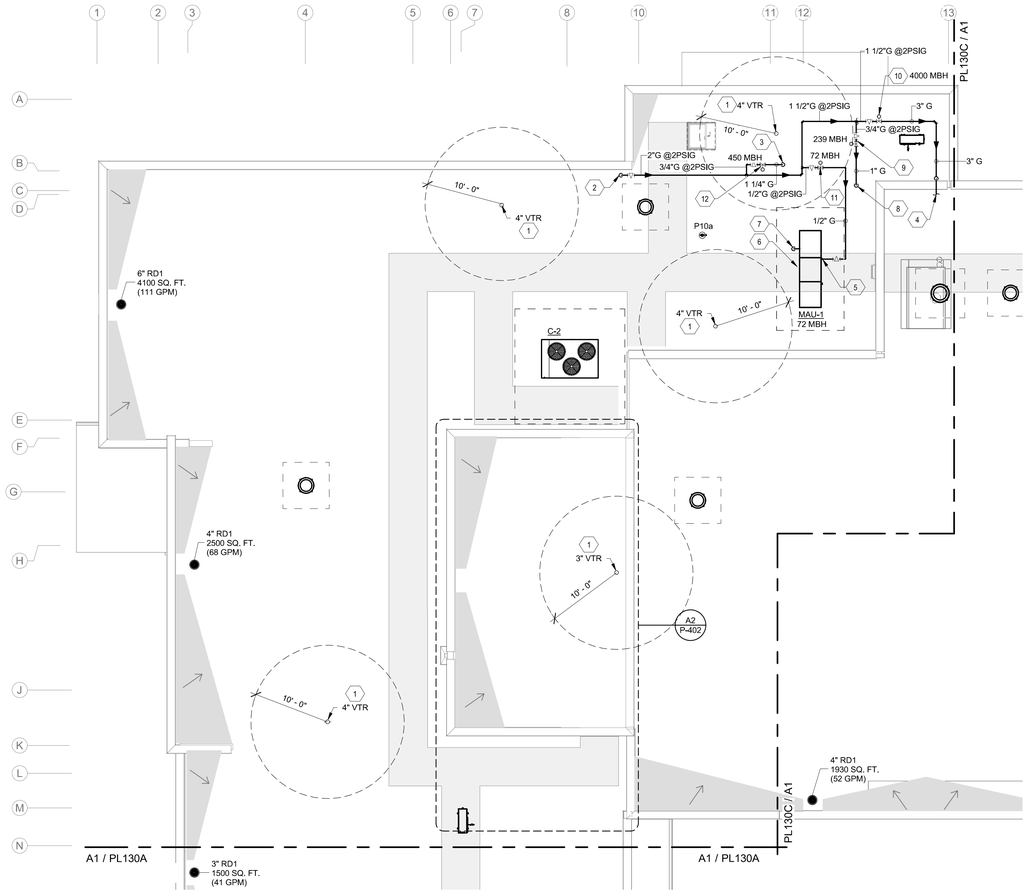
CHECKED BY:	IM

SHEET TITLE

PLUMBING - ROOF PLAN 'A'

PL130A

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:42 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



A1 PLUMBING ROOF PLAN - AREA B
1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

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H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.

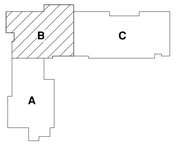
I. PROVIDE ROOF TOP PIPE SUPPORTS FOR NATURAL GAS AND CONDENSATE PIPING. SUPPORTS SHALL BE EATON DURA BLOK DBE VERICAL ADJUSTABLE SERIES WITH CLAMP/ROLLER FOR PIPING.

J. ALL EXPOSED GAS PIPING ON ROOF SHALL BE PAINTED SAFETY YELLOW WITH A RUST-RESISTANT EXTERIOR PAINT.

K. PROVIDE PIPING SUPPORTS FOR NATURAL GAS AND CONDENSATE PIPING AT 8 FT O.C. AND AT EVERY BRANCH AND TEE.

KEYNOTES

1. VENT THRU ROOF. MAINTAIN 10 FT FROM ALL FRESH AIR INTAKES. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND ROOF DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS.
2. 2" GAS (2 PSI) PIPING ROUTED UP FROM THE LEVEL BELOW.
3. 1 1/4" GAS ROUTED DOWN TO THE PLUMBING - 232 ROOM BELOW.
4. 3" GAS PIPING ROUTED THROUGH PENTHOUSE WALL AND INTO THE MECH - 301 ROOM. REFER TO PP102C FOR CONTINUATION.
5. CONNECT GAS PIPING TO MECHANICAL UNIT WITH UNION, LUBRICATED PLUG VALVE, DIRT LEG, FLEXIBLE CONNECTION & PER MANUFACTURES REQUIREMENTS.
6. ROUTE LINE SIZE COPPER DRAIN FROM MECHANICAL EQUIPMENT TO DOWN THRU ROOF. TERMINATE TO NEAREST MOP SINK INDERECTLY WITH 2" MIN AIR GAP CONNECTION. SLOPE PIPING TO DRAIN. COORDINATE WITH MANUFACTURER FOR SUPPLY DRAIN CONNECTIONREQUIREMENTS. PROVIDE TRAP PRIOR TO GRAVITY DRAIN. INSTALL PER MANUFACTURERS REQUIREMENTS.
7. 3/4" DCW PIPING ROUTED UP FROM CEILING SPACE BELOW. CONNECT TO MAU PER MANUFACTURERS REQUIREMENTS.
8. 1" GAS ROUTED DOWN TO THE KITCHEN BELOW.
9. PROVIDE REGULATOR WITH LUBRICATED PLUG VALVE AND PETES PLUG. REGULATOR SHALL REDUCE PRESSURE DOWN TO 7"-14" W.C. AND SHALL ACCOMODATE A TOTAL CONNECTED LOAD OF 239 MBH. GAS PIPING AFTER REGULATOR SIZED AT 70FT PER 2021 UPC TABLE 1215.2(1). MAINTAIN 10FT FROM ALL FRESH AIR INTAKES. SUPPORT REGULATOR AT EACH END.
10. PROVIDE REGULATOR WITH LUBRICATED PLUG VALVE AND PETES PLUG. REGULATOR SHALL REDUCE PRESSURE DOWN TO 7"-14" W.C. AND SHALL ACCOMODATE A TOTAL CONNECTED LOAD OF 4000 MBH. GAS PIPING AFTER REGULATOR SIZED AT 50FT PER 2021 UPC TABLE 1215.2(1). MAINTAIN 10FT FROM ALL FRESH AIR INTAKES. SUPPORT REGULATOR AT EACH END.
11. PROVIDE REGULATOR WITH LUBRICATED PLUG VALVE AND PETES PLUG. REGULATOR SHALL REDUCE PRESSURE DOWN TO 7"-14" W.C. AND SHALL ACCOMODATE A TOTAL CONNECTED LOAD OF 72 MBH. GAS PIPING AFTER REGULATOR SIZED AT 30FT PER 2021 UPC TABLE 1215.2(1). MAINTAIN 10FT FROM ALL FRESH AIR INTAKES. SUPPORT REGULATOR AT EACH END.
12. PROVIDE REGULATOR WITH LUBRICATED PLUG VALVE AND PETES PLUG. REGULATOR SHALL REDUCE PRESSURE DOWN TO 7"-14" W.C. AND SHALL ACCOMODATE A TOTAL CONNECTED LOAD OF 450 MBH. GAS PIPING AFTER REGULATOR SIZED AT 50FT PER 2021 UPC TABLE 1215.2(1). MAINTAIN 10FT FROM ALL FRESH AIR INTAKES. SUPPORT REGULATOR AT EACH END.



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SHEET TITLE
PLUMBING - ROOF PLAN 'B'

PL130B

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:45 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy

KEYNOTES

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2. 3/4" DCW PIPING ROUTED UP FROM CEILING SPACE BELOW. CONNECT TO MAU PER MANUFACTURERS REQUIREMENTS.
3. 1 1/4" GAS ROUTED DOWN TO THE PLUMBING - 232 ROOM BELOW.
4. 3" GAS PIPING ROUTED THROUGH PENTHOUSE WALL AND INTO THE MECH - 301 ROOM. REFER TO PP102C FOR CONTINUATION.
5. CONNECT GAS PIPING TO MECHANICAL UNIT WITH UNION, LUBRICATED PLUG VALVE, DIRT LEG, FLEXIBLE CONNECTION & PER MANUFACTURES REQUIREMENTS.
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A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

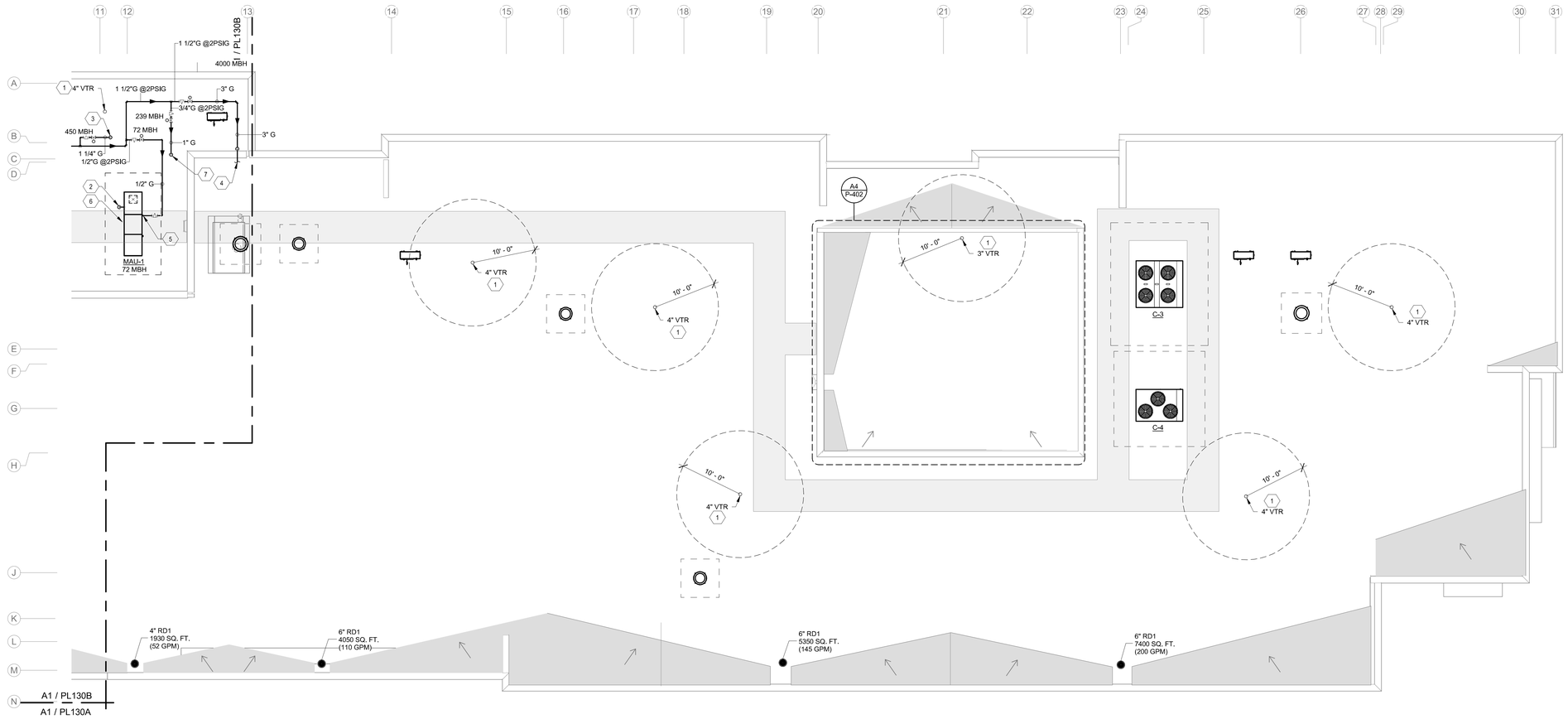
G. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.

H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.

I. PROVIDE ROOF TOP PIPE SUPPORTS FOR NATURAL GAS AND CONDENSATE PIPING. SUPPORTS SHALL BE EATON DURA BLOK DBE VERICAL ADJUSTABLE SERIES WITH CLAMP/ROLLER FOR PIPING.

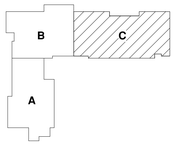
J. ALL EXPOSED GAS PIPING ON ROOF SHALL BE PAINTED SAFETY YELLOW WITH A RUST-RESISTANT EXTERIOR PAINT.

K. PROVIDE PIPING SUPPORTS FOR NATURAL GAS AND CONDENSATE PIPING AT 8 FT O.C. AND AT EVERY BRANCH AND TEE.



A1 PLUMBING - ROOF PLAN 'C'
1/8" = 1'-0"

0' 4' 8' 16'



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FARMINGTON PRESCHOOL ACADEMY
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FARMINGTON, NM 87402

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MARCH 2024

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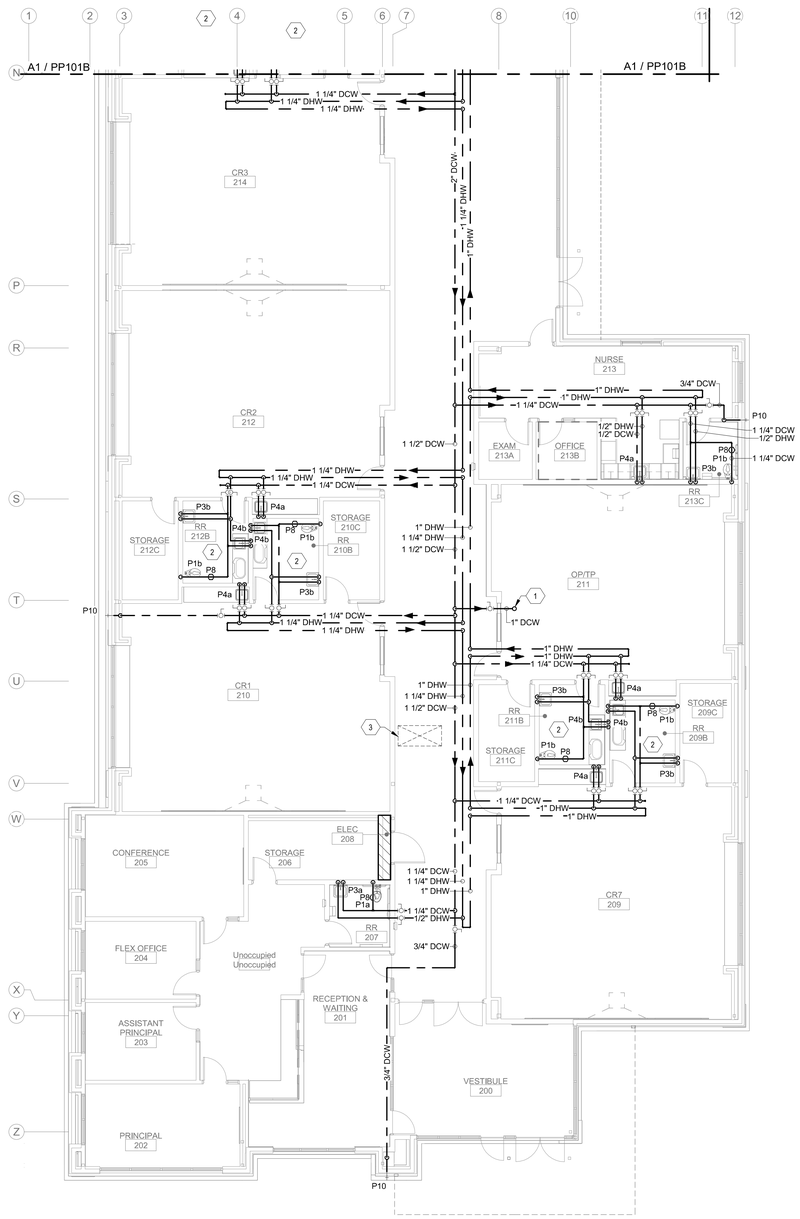
SHEET TITLE
PLUMBING - ROOF PLAN 'C'

PL130C

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:59 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



A1 PRESSURE PIPING FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

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KEYNOTES

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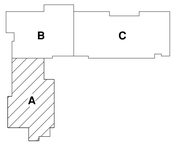
2. REFER TO ENLARGED PLAN C1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
3. MECHANICAL DUCT DROP FROM PENTHOUSE, ROUTE DCW/DHW PIPING TO AVOID THIS AREA.



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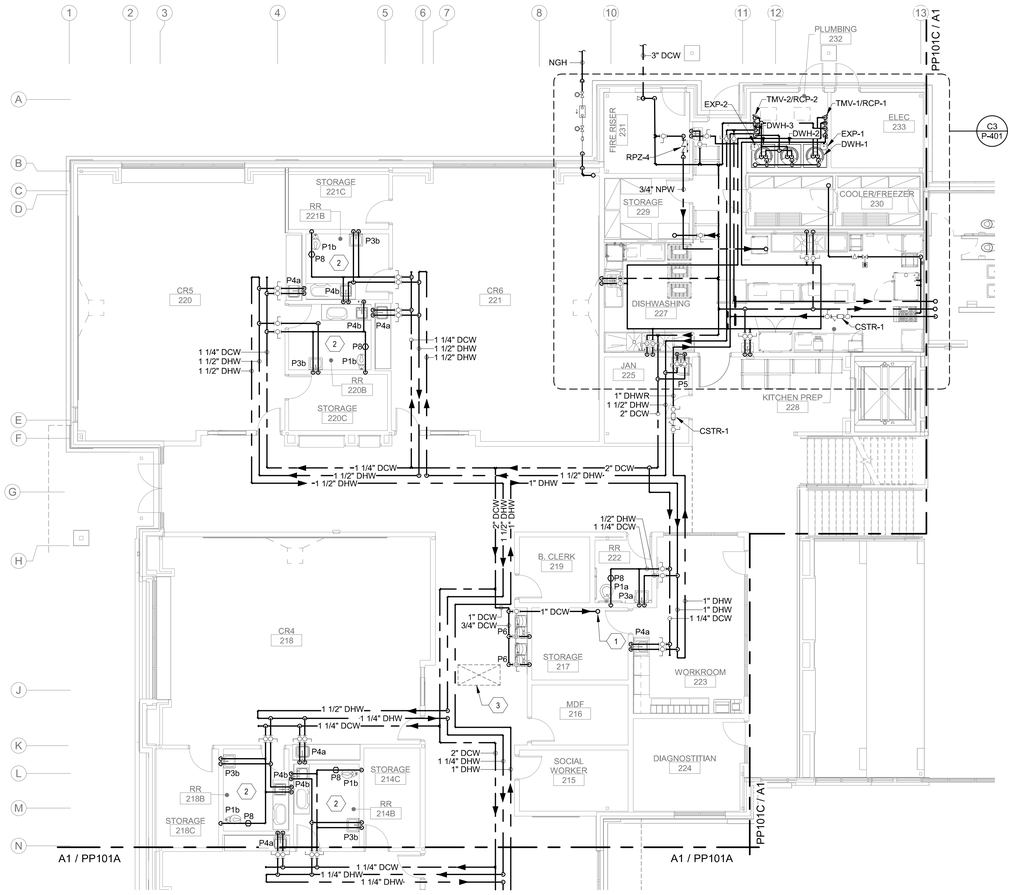
SHEET TITLE
PRESSURE PIPING FLOOR PLAN - GROUND LEVEL 'A'

PP101A

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:52 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



A1 PRESSURE PIPING FLOOR PLAN - GROUND LEVEL 'B'
1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

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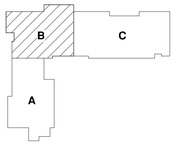
G. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THE AUTHORITY HAVING JURISDICTION.

H. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS AND SHEET P-701 FOR PLUMBING FIXTURE, EQUIPMENT AND ROUGH-IN SCHEDULES.

KEYNOTES

1. MAKE-UP WATER ROUTED UP TO PENTHOUSE ABOVE.
2. REFER TO ENLARGED PLAN C1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
3. MECHANICAL DUCT DROP FROM PENTHOUSE, ROUTE DCW/DHW PIPING TO AVOID THIS AREA.
4. NATURAL GAS METER, REFER TO A3/P-401 FOR ADDITIONAL INFORMATION.
5. 2" NATURAL GAS (2 PSI) MAIN ROUTED UP TO ROOF LEVEL, REFER TO PL-130B FOR CONTINUATION.



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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

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SHEET TITLE
PRESSURE PIPING FLOOR PLAN - GROUND LEVEL 'B'

PP101B

Bridgers & Paxton Project No: 8819 3/21/2024 4:59:53 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt

Farmington Preschool Academy

KEYNOTES

1. REFER TO ENLARGED PLAN C1/P-401 FOR TYPICAL CLASSROOM PLUMBING LAYOUT, PIPE SIZES AND ADDITIONAL INFORMATION.
2. 3/4" DCW ROUTED BELOW GRADE TO HYDRANTS ON SITE. REFER TO PS101 FOR CONTINUATION.
3. MECHANICAL DUCT DROP FROM PENTHOUSE, ROUTE DCW/DHW PIPING TO AVOID THIS AREA.
4. 2" DCW ROUTED DOWN TO LOWER LEVEL CEILING SPACE FROM KITCHEN CEILING SPACE. 1" DHW ROUTED UP TO KITCHEN CEILING SPACE FROM LOWER LEVEL CEILING SPACE.
5. 1 1/2" DHW PIPING ROUTED DOWN FROM UPPER LEVEL CEILING SPACE DOWN TO THE LOWER LEVEL CEILING SPACE.

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

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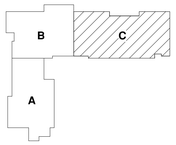

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PP101C

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KEYNOTES

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4. GAS PIPING ROUTED THROUGH WALL FROM ROOF LEVEL. ROUTE GAS TO BOILERS.
5. 2" DCW AND 1 1/2" DHW PIPING ROUTED UP TO UPPER LEVEL CEILING SPACE FROM KITCHEN CEILING SPACE.
6. 1 1/2" DHW PIPING ROUTED DOWN TO LOWER LEVEL CEILING SPACE.

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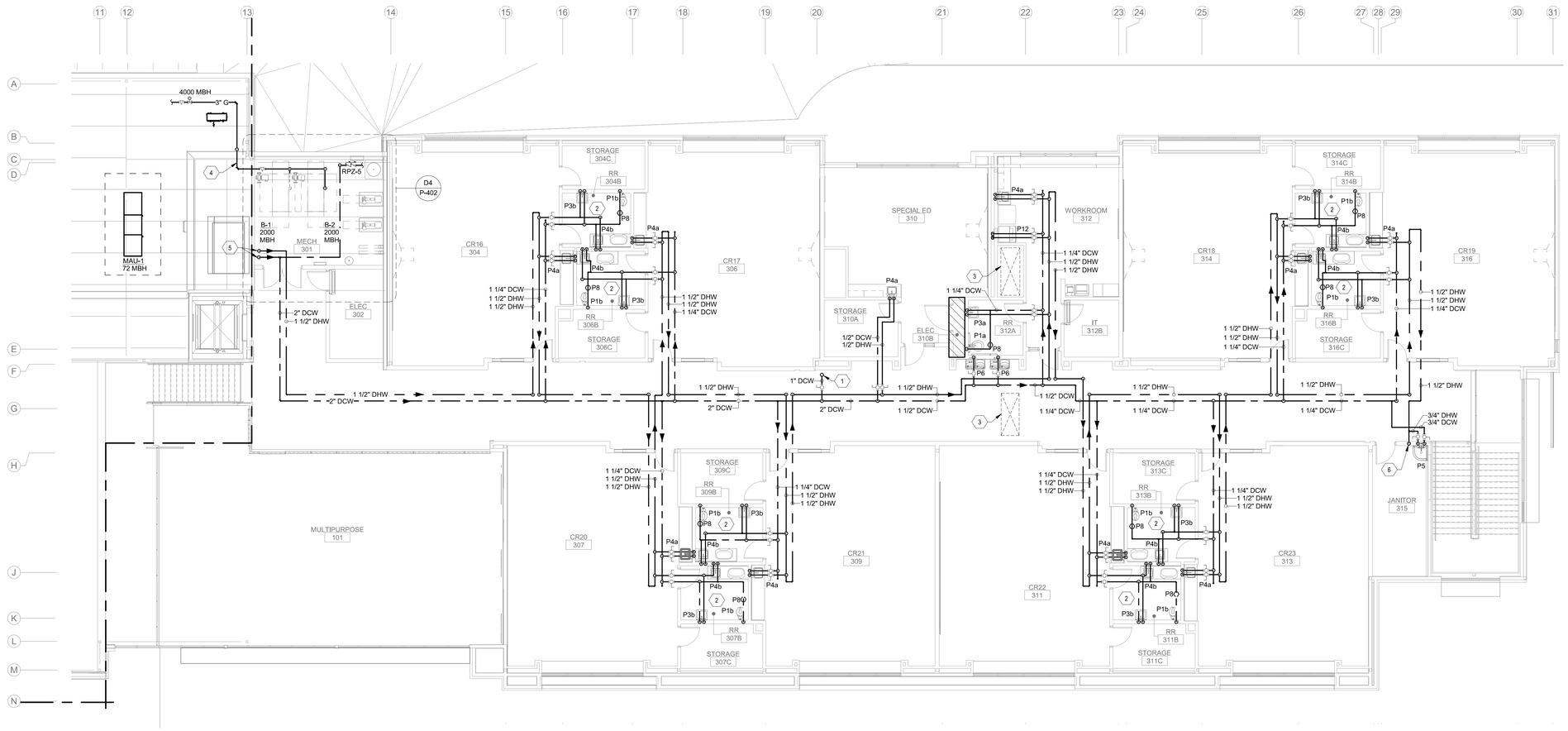

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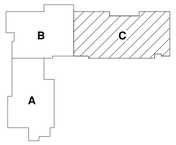

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

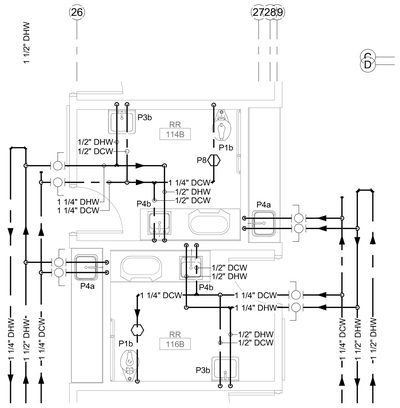
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	MAR/PCN/MJS
CHECKED BY:	IM

SHEET TITLE
PRESSURE PIPING FLOOR PLAN - UPPER LEVEL 'C'

PP102C

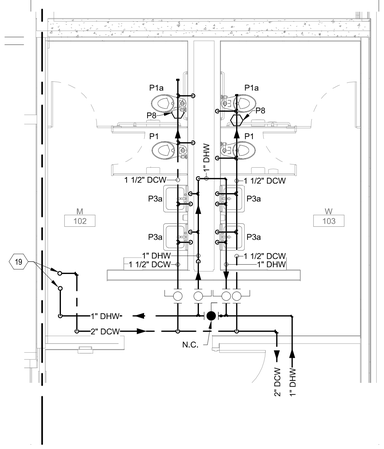
Bridgers & Paxton Project No: 8819 3/21/2024 4:59:57 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt

Farmington Preschool Academy



C1 PRESSURE PIPING ENLARGED TYPICAL RESTROOM

SCALE: NOT TO SCALE



C2 PRESSURE PIPING ENLARGED RESTROOM GROUP

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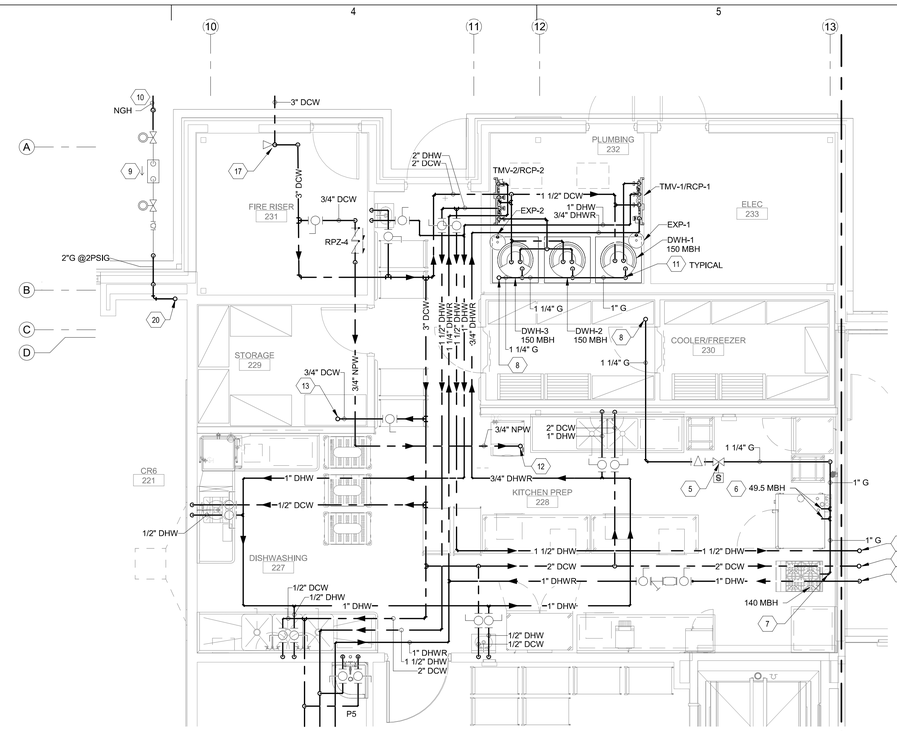
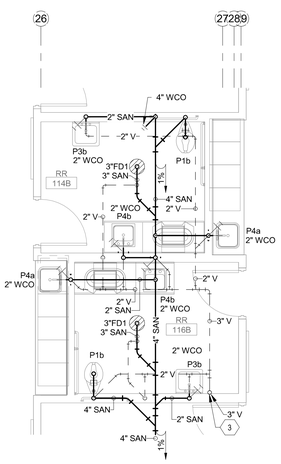


C3 PRESSURE PIPING ENLARGED KITCHEN PLAN

SCALE: 1/4" = 1'-0"



A1 WASTE & VENT ENLARGED TYPICAL RESTROOM

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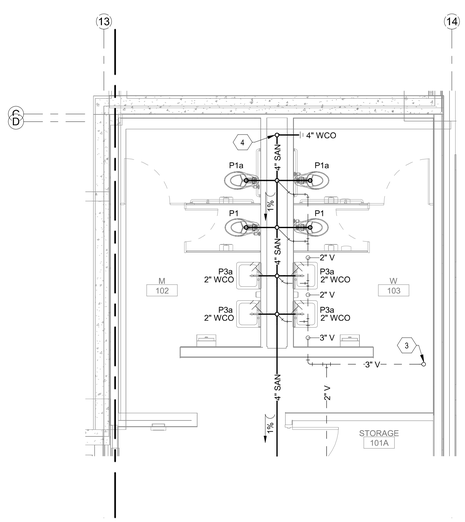

A2 WASTE & VENT ENLARGED RESTROOM GROUP

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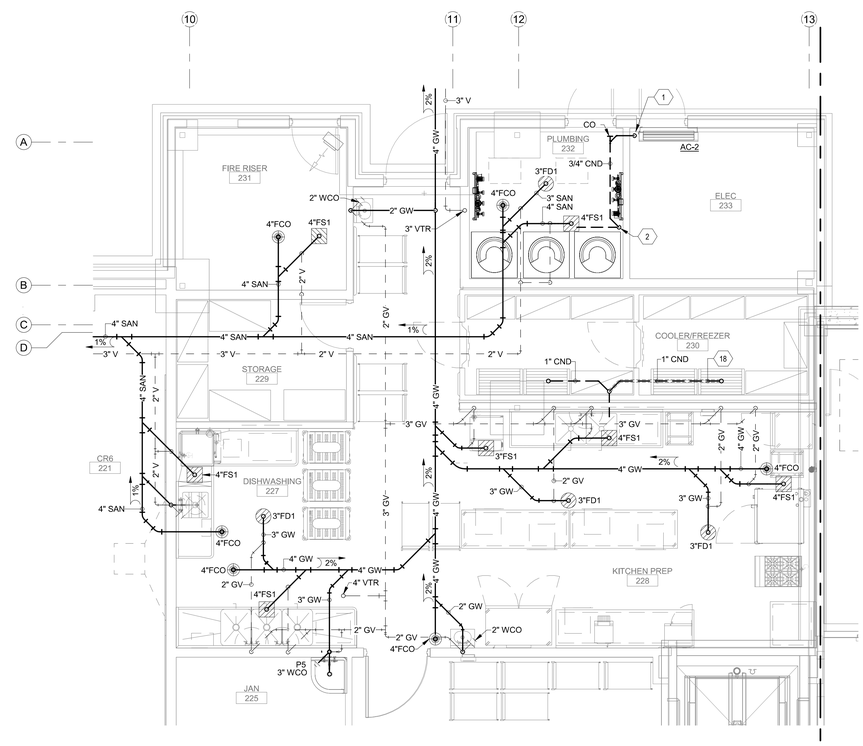

A3 WASTE & VENT ENLARGED KITCHEN PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

KEYNOTES

1. PUMPED 3/4" CONDENSATE DRAIN ROUTED UP AS HIGH AS POSSIBLE AND SLOPED TO GRAVITY DRAIN. CONNECT TO UNIT PER MANUFACTURERS REQUIREMENTS.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN ALONG WALL AND ROUTE TO NEAREST FLOOR SINK, TERMINATE INDIRECTLY WITH MINIMUM 2" AIR GAP ABOVE RIM.
3. VENT ROUTED UP TO LEVEL 2 CEILING SPACE.
4. 4" SANITARY PIPING ROUTED DOWN FROM ABOVE. PROVIDE 4" WALL CLEANOUT BEFORE GOING BELOW GRADE.
5. ASCO 8214 (1-1/4") SERIES, EMERGENCY SOLENOID SHUT OFF VALVE. COORDINATE POWER AND LOW VOTAGE WIRING TO EMERGENCY PUSH BUTTON. COORDINATE WITH ELECTRICAL AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
6. PROVIDE TWO 3/4" GAS CONNECTIONS TO EACH DOUBLE STACKED COMBI OVEN BY KITCHEN CONSULTANT. CONNECT TO EQUIPMENT WITH UNION, DIRT-LEG, LUBRICATED PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURER'S REQUIREMENTS.
7. PROVIDE 1" GAS CONNECTION TO RANGE BY KITCHEN CONSULTANT. CONNECT TO EQUIPMENT WITH UNION, DIRT-LEG, LUBRICATED PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURER'S REQUIREMENTS.
8. 1-1/4" G DOWN FROM ROOF ABOVE. REFER TO SHEET PL130B FOR CONTINUATION. COORDINATE WITH ARCHITECTURAL ROOF PLAN AND DETAILS FOR PIPE PENETRATION FLASHING REQUIREMENTS.
9. NEW METER/REGULATOR ASSEMBLY PER LOCAL GAS AUTHORITY REQUIREMENTS. REGULATOR SHALL REDUCE PRESSURE DOWN TO 2 PSI. METER/REGULATOR SHALL ACCOMMODATE A TOTAL CONNECTED LOAD OF 4,761 MBH. PROVIDE A FULL BORE ISOLATION VALVE PRIOR TO ANY DISTRIBUTION INTO THE PIPING SYSTEM. MAINTAIN 10FT FROM OPERABLE WINDOW, DOOR, MECHANICAL INTAKE OR FENESTRATION. COORDINATE WITH GAS COMPANY FOR ALL REQUIRED TRENCHING, METER, AND EXTENTION FEES PRIOR TO BID.
10. HIGH PRESSURE LINE SIZE SHALL BE SIZED BY NMGCO. COORDINATE PRIOR TO BID. REFER TO PS101 FOR CONTINUATION.
11. PROVIDE 1" GAS CONNECTION TO EACH WATER HEATER. CONNECT TO EQUIPMENT WITH UNION, DIRT-LEG, LUBRICATED PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURER'S REQUIREMENTS.
12. 3/4" MAKE-UP WATER ROUTED UP TO ROOF LEVEL.
13. 3/4" DCW ROUTED UP TO ROOF LEVEL TO FEED ROOF HYDRANT. SLOPE DCW PIPING TO DRAIN.
14. 1 1/2" DHW PIPING ROUTED UP TO LEVEL 2 CEILING SPACE.
15. DCW TEE, 2" DCW ROUTED UP TO LEVEL 2 CEILING SPACE AND 2" DCW ROUTED DOWN TO LEVEL 1 CEILING SPACE.
16. 1" DHW PIPING ROUTED UP FROM LEVEL 1 CEILING SPACE.
17. 3" DCW ENTRANCE, REFER TO DETAIL A1/P-501 AND A2/P-501 FOR ADDITIONAL INFORMATION.
18. CONDENSATE DRAIN SHALL BE HEAT TRACED AND INSULATED. INSULATION SHALL BE A MIN. OF 2" THICK PRE-FORMED FIBERGLASS INSULATION WITH ASJ JACKET & EMBOSSED ALUMINUM ROLL JACKET. HEAT TRACE BY NVENT RAYCHEM SHALL BE SIZED AT 5 WATTS/FT. HEAT TRACE CABLE SHALL HAVE A MAX LENGTH OF 25 FT. AND A MIN. PIPE TEMPERATURE OF 40°F. PROVIDE WITH SINGLE ENTRY POWER KIT, INSULATION END SEAL KIT, TEMPERATURE PROBE, ELECTRONIC TEMPERATURE CONTROLLER, AND FAILURE ALARM. MOUNT CONTROLLER IN VISIBLE & ACCESIBLE LOCATION. COORDINATE INSTALLATION & POWER REQUIREMENTS WITH ELECTRICAL, AND INSTALL PER MANUFUACTURER'S REQUIREMENTS.
19. 2" DCW ROUTED DOWN TO LOWER LEVEL CEILING SPACE FROM KITCHEN CEILING SPACE. 1" DHW ROUTED UP TO KITCHEN CEILING SPACE FROM LOWER LEVEL CEILING SPACE.
20. 2" NATURAL GAS (2 PSI) MAIN ROUTED UP TO ROOF LEVEL, REFER TO PL-130B FOR CONTINUATION.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
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CHECKED BY:	IM

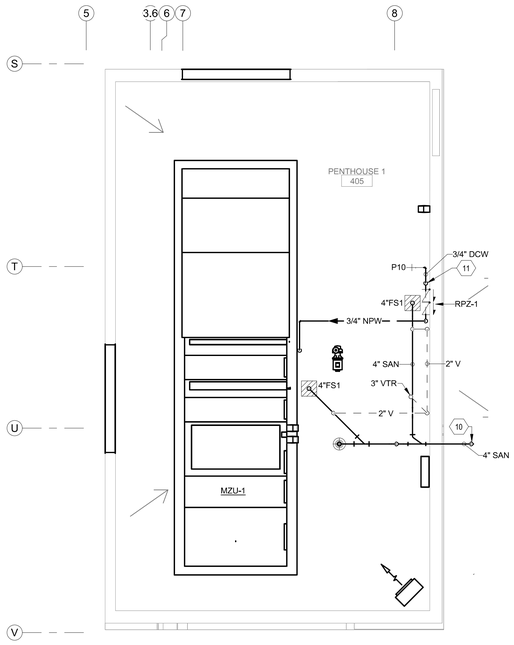
SHEET TITLE

ENLARGED PLUMBING PLANS

P-401

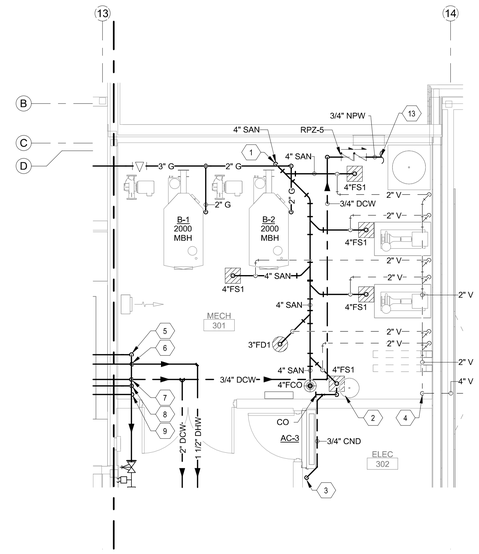
Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 5:00:01 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt



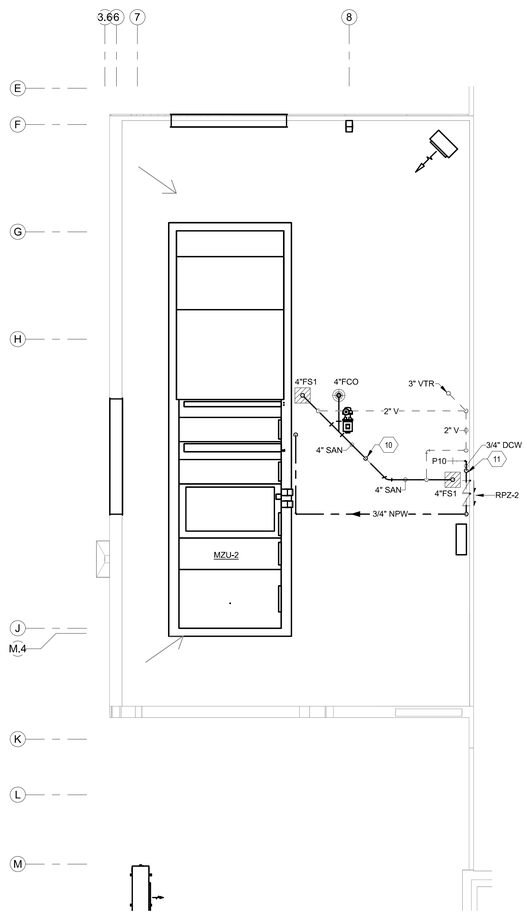
D2 PLUMBING ENLARGED PENTHOUSE "A"

SCALE: 1/4" = 1'-0"



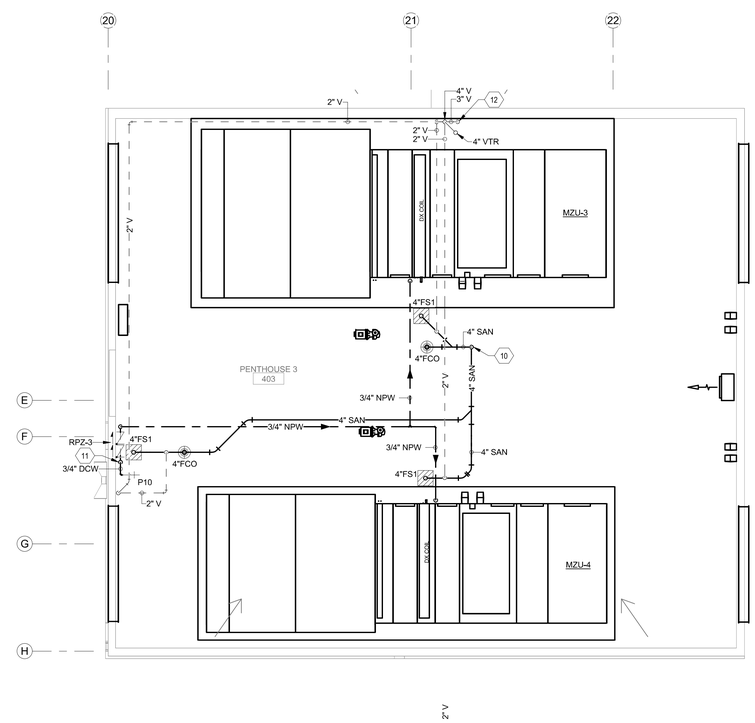
D4 PLUMBING ENLARGED MECH ROOM

SCALE: NOT TO SCALE



A2 PLUMBING ENLARGED PENTHOUSE "B"

SCALE: 1/4" = 1'-0"



A4 PLUMBING ENLARGED PENTHOUSE "C"

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.

B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.

C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.

D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.

E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.

F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.

G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

KEYNOTES

1. 4" SANITARY ROUTED DOWN TO BELOW GRADE. PROVIDE WITH 4" CLEANOUT BEFORE GOING BELOW GRADE.
2. ROUTE 3/4" CONDENSATE DRAIN DOWN ALONG WALL AND ROUTE TO NEAREST FLOOR SINK. TERMINATE INDIRECTLY WITH MINIMUM 2" AIR GAP ABOVE RIM.
3. PUMPED 3/4" CONDENSATE DRAIN ROUTED UP AS HIGH AS POSSIBLE AND SLOPED TO GRAVITY DRAIN. CONNECT TO UNIT PER MANUFACTURERS REQUIREMENTS.
4. VENT ROUTED UP FROM LEVEL 1 CEILING SPACE BELOW.
5. FIRE PROTECTION PIPING ROUTED UP TO LEVEL 2 CEILING SPACE.
6. 1 1/2" DHW PIPING ROUTED UP TO LEVEL 2 CEILING SPACE.
7. DCW TEE, 2" DCW ROUTED UP TO LEVEL 2 CEILING SPACE AND 2" DCW ROUTED DOWN TO LEVEL 1 CEILING SPACE.
8. FIRE PROTECTION PIPING ROUTED DOWN TO LEVEL 1 CEILING SPACE.
9. 1" DHW PIPING ROUTED UP FROM LEVEL 1 CEILING SPACE.
10. 4" SANITARY ROUTED DOWN TO BELOW GRADE. PROVIDE WITH 4" CLEANOUT BEFORE GOING BELOW GRADE.
11. MAKE-UP WATER ROUTED UP FROM THE LEVEL BELOW TO THE PENTHOUSE CEILING SPACE.
12. 3" VENT ROUTED UP FROM THE LEVEL 2 CEILING SPACE. CONNECT TO 4" VTR.
13. 3/4" NPW MAKE-UP. REFER TO DIAGRAM ON SHEET M-601 FOR CONTINUATION.

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MARCH 2024

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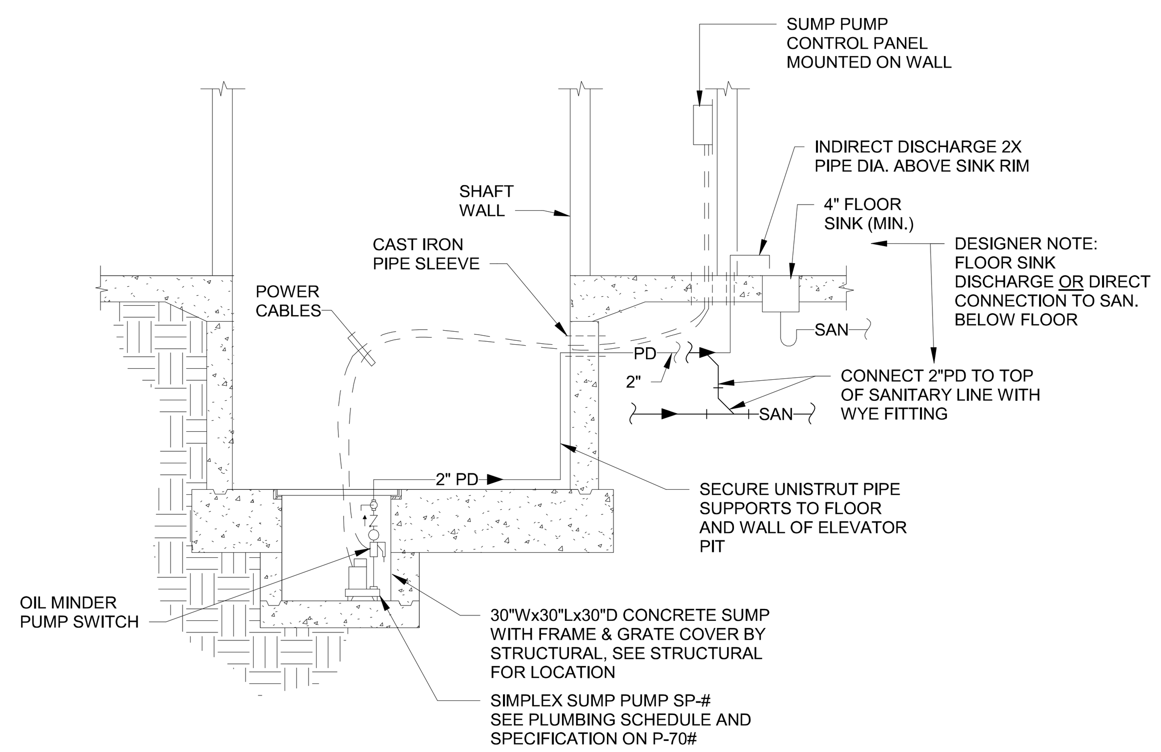
SHEET TITLE

ENLARGED PENTHOUSE PLUMBING PLANS

P-402

Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 5:00:03 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt



D3 ELEVATOR SUMP PUMP IPC ###.#

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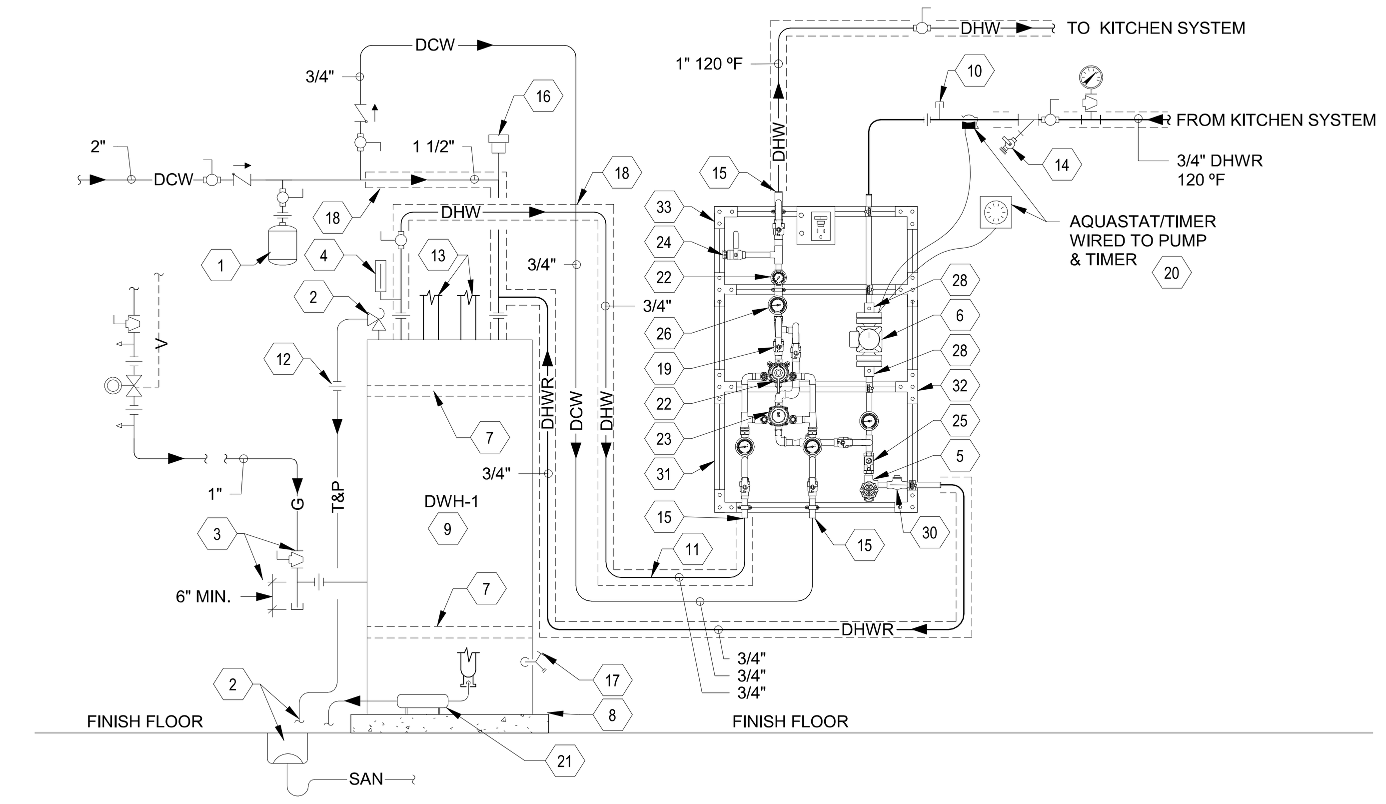

1. IN-LINE EXPANSION TANK, **EXP-1**
2. FULL SIZED T&P RELIEF VALVE. DISCHARGE TO FLOOR SINK WITH AIR GAP OF 2X PIPE DIA. ABOVE FLOOR SINK RIM
3. PLUG VALVE WITH DIRT LEG AND UNION
4. HOT WATER THERMOMETER (TYPICAL)
5. TEE DRAIN
6. RECIRCULATION PUMP, **RCP-1**
7. SEISMIC STRAPPING PER UPC 508.2 OR **IPC 502.4 (IF REQUIRED)**
8. 4" MIN. HOUSEKEEPING PAD
9. DOMESTIC WATER HEATER, SEE SPEC'S
10. PETE'S PLUGS (TYPICAL)
11. HEAT TRAP PER MFG. SPEC'S
12. UNION (TYPICAL)
13. COMBUSTION AIR INTAKE AND EXHAUST BY MECHANICAL
14. WYE STRAINER WITH BLOWDOWN VALVE
15. PROVIDE PIPE TRANSITION IF REQUIRED AT INLETS/OUTLETS
16. 3/4" VACUUM RELIEF VALVE
17. TANK DRAIN, PROVIDE WITH BALL VALVE AND 3/4" NPT OUTLET.
18. FIRST 8 FT OF PIPING INLET/OUTLET MUST BE INSULATED PER 2018 IECC (SEC. C404.3). INSULATE REST OF HOT WATER SYSTEM PER SPECIFICATIONS
19. FULL PORT BALL VALVE, TYP.
20. PUMP WIRED TO AQUASTAT & TIMER, PER 2018 IECC C404.6.1, "CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY"
21. CONDENSATE NEUTRALIZER. DISCHARGE TO FLOOR SINK WITH AIR GAP OF 2X PIPE DIA. ABOVE FLOOR SINK RIM
22. LARGE TMV
23. SMALL TMV
24. TEST CONNECTION
25. CIRCUIT SOLVER
26. DIAL THERMOMETER, TYP.
27. PRESSURE GAUGE
28. PUMP SHUT-OFFS
29. RECIRCULATION PUMP, RCP-1
30. CHECK VALVE
31. GALVANIZED STRUT
32. TEE BRACKET
33. CORNER BRACKET

NOTE:
WATER HEATER SHALL BE OF THE DIRECT VENTING TYPE, COORDINATE WITH MECHANICAL

INSTALL THERMOSTATIC MIXING VALVE ASSEMBLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. PROVIDE PIPING SCHEMATIC WITH SUBMITTALS.

D5 DOMESTIC WATER HEATER - 2018 IECC

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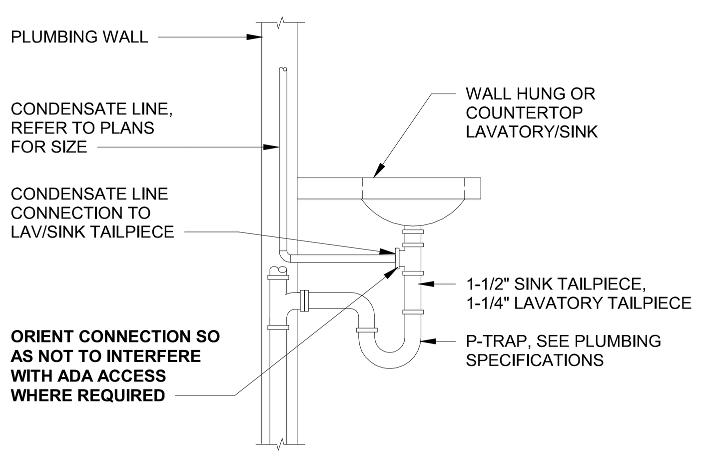
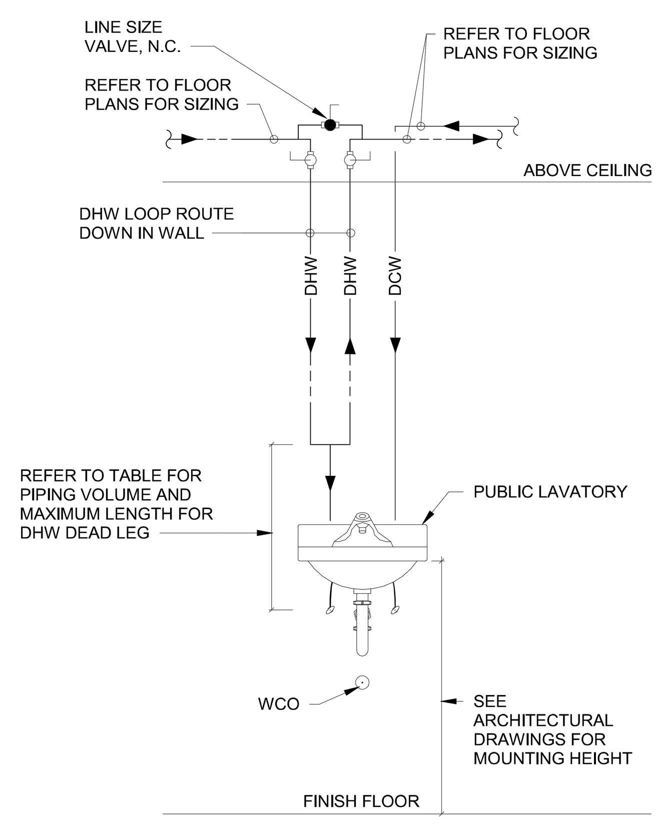


NOTE:

WHERE PERMITTED BY THE AHJ, CONDENSATE "POINT OF DISCHARGE" SHALL BE PERMITTED TO DISCHARGE INTO THE TAIL PIECE OF PLUMBING FIXTURES IN THE EVENT THAT A SUITABLE FIXTURE IS NOT AVAILABLE TO RECEIVE SUCH DISCHARGE.

C1 LAV-SINK CONDENSATE DRAIN CONNECTION

SCALE: NOT TO SCALE



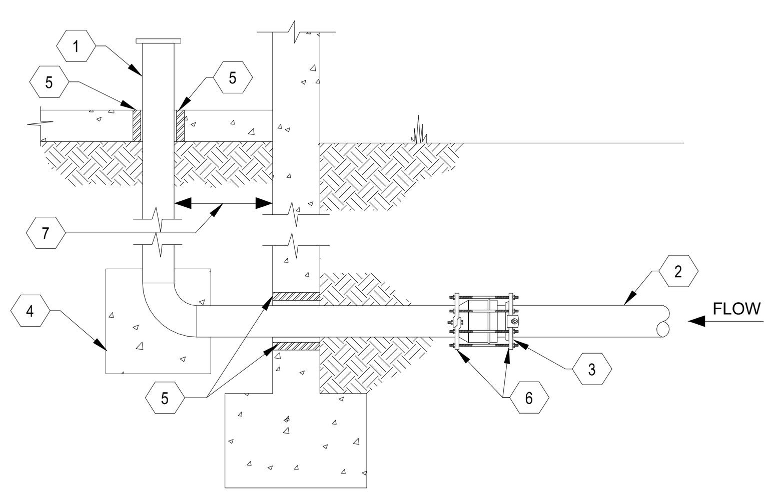
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (INCH)	VOLUME (FL OZ PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FT) FOR PUBLIC LAVATORY
1/4	0.33	6
5/16	0.5	4
3/8	0.75	3
1/2	1.5	2
5/8	2	1
3/4	3	0.5
7/8	4	0.5
1	5	0.5
1 1/4	8	0.5
1 1/2	11	0.5
2 OR LARGER	8	0.5

*PER TABLE C404.5.1 2018 IECC CODE

C3 DHW CONNECTION TO PUBLIC LAVATORY DETAIL

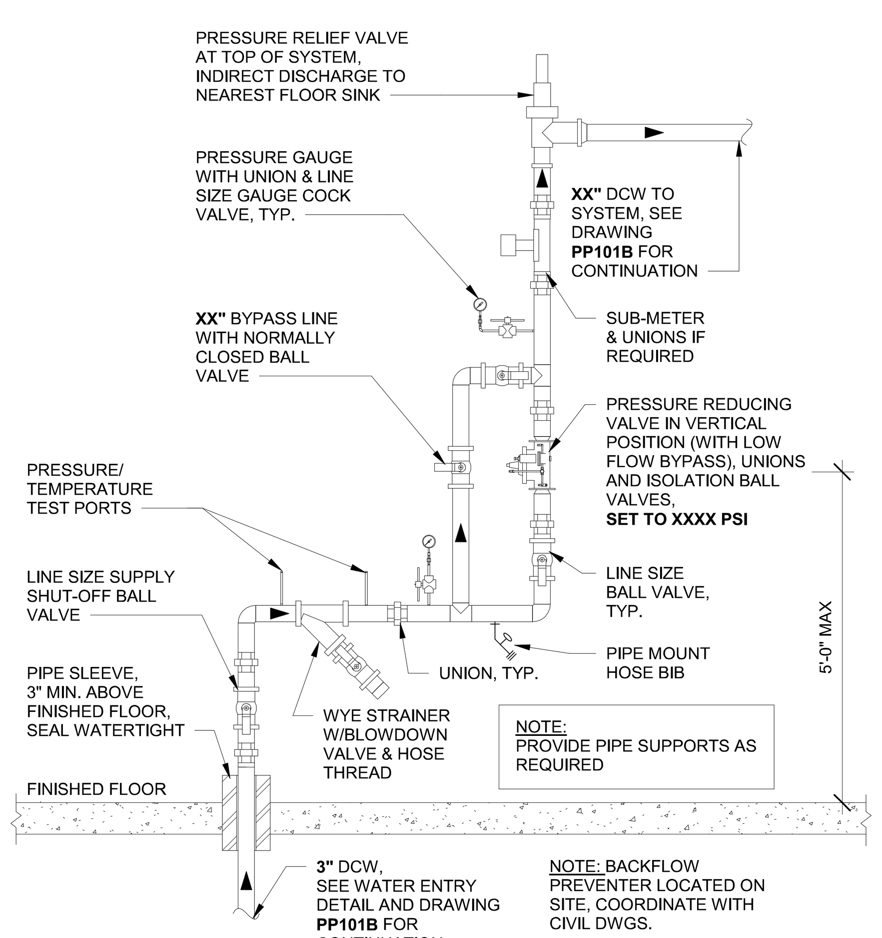
SCALE: NOT TO SCALE



1. AMES IN-BUILDING RISER. STAINLESS STEEL TYPE 304. SEE PLANS FOR SIZE AND SERVICE
2. DUCTILE IRON OR PVC WATER SERVICE.
3. MECHANICAL JOINT FROM SUPPLY PIPE TO STAINLESS STEEL, CONTINUE INTO BUILDING WITH STAINLESS STEEL.
4. CONCRETE THRUST BLOCK SIZED IN ACCORDANCE WITH IBC IF REQUIRED BY AHJ
5. PIPE SLEEVE, SEE SPECIFICATIONS
6. MEGALUG PIPE RESTRAINT HARNESS
7. VERTICAL SECTION OF RISER LOCATED AS CLOSE AS POSSIBLE TO WALL

A1 WATER ENTRY THRU FOOTING DETAIL

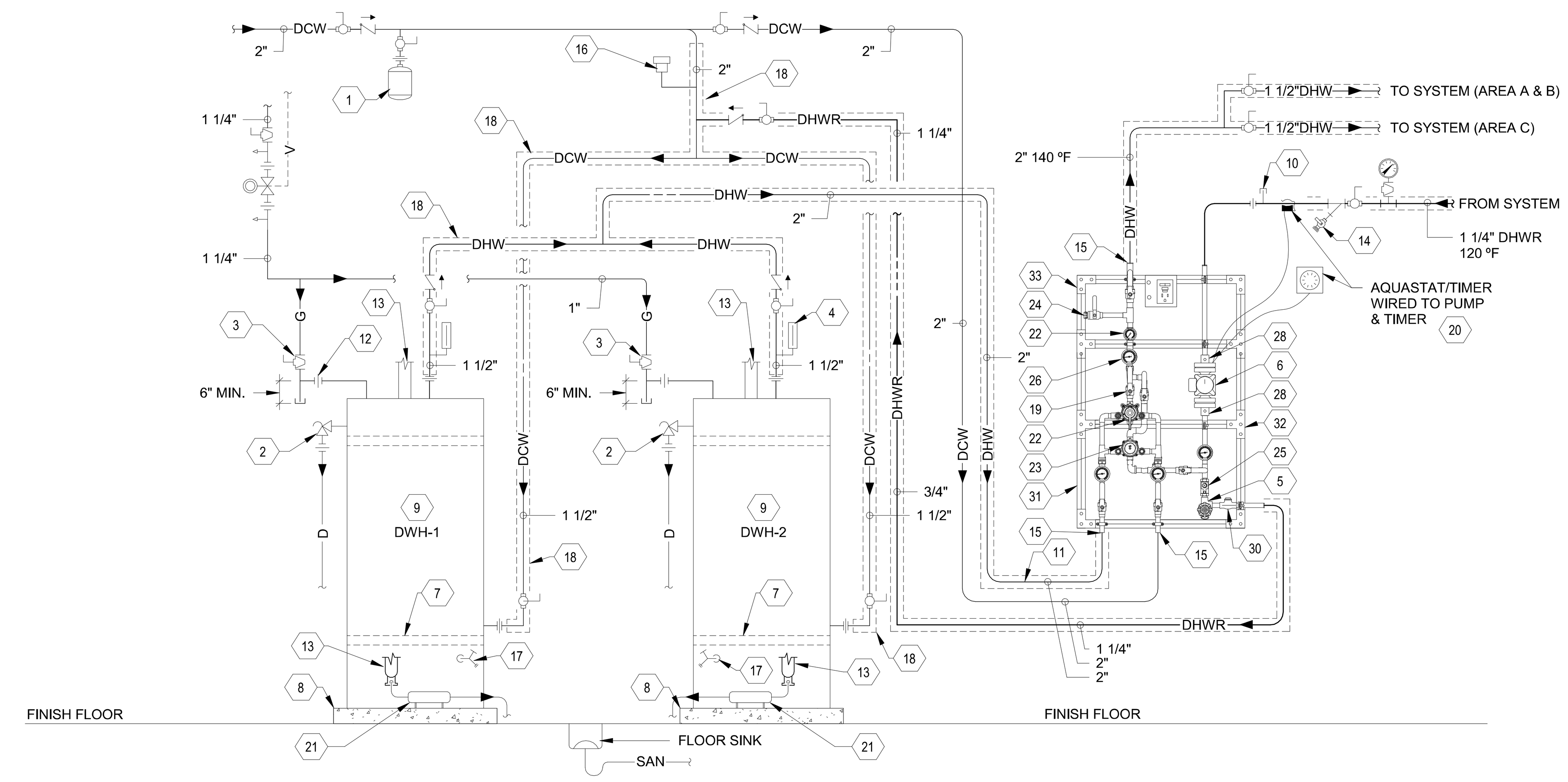
SCALE: NOT TO SCALE



A2 DOMESTIC WATER ENTRY VERTICAL ASSEMBLY

SCALE: NOT TO SCALE

NOTE:
PARALLEL IS DEFINED AS: EQUALLY MANIFOLDING THE INLET COLD WATER PIPE AND OUTLET HOT WATER PIPE IN MULTIPLE HEATER INSTALLATIONS. HAVING EQUAL NUMBER OF FITTINGS AS WELL AS LENGTHS OF PIPE. BOTH HEATERS ARE USED EQUALLY.



1. IN-LINE MOUNT EXPANSION TANK, **EXP-1**
2. FULL SIZED T&P RELIEF VALVE. DISCHARGE TO FLOOR SINK WITH AIR GAP OF 2X PIPE DIA. ABOVE FLOOR SINK RIM, TYPICAL FOR EACH DOMESTIC WATER HEATER
3. PLUG VALVE WITH DIRT LEG AND UNION, TYPICAL FOR EACH DOMESTIC WATER HEATER
4. HOT WATER THERMOMETER (TYPICAL)
5. TEE DRAIN
6. RECIRCULATION PUMP, **RCP-2**
7. SEISMIC STRAPPING PER UPC 508.2, TYPICAL OF EACH DOMESTIC WATER HEATER
8. 4" MIN. HOUSEKEEPING PAD
9. DOMESTIC WATER HEATER, SEE SPEC'S
10. PETE'S PLUGS (TYPICAL)
11. HEAT TRAP PER MFG. SPEC'S
12. UNION (TYPICAL)
13. COMBUSTION AIR INTAKE AND EXHAUST BY MECHANICAL
14. WYE STRAINER WITH BLOWDOWN VALVE
15. PROVIDE PIPE TRANSITION IF REQUIRED AT INLETS/OUTLETS
16. 3/4" VACUUM RELIEF VALVE
17. TANK DRAIN, PROVIDE WITH BALL VALVE AND 3/4" NPT OUTLET.
18. FIRST 8 FT OF PIPING INLET/OUTLET MUST BE INSULATED PER 2018 IECC (SEC. C404.3). INSULATE HOT WATER SYSTEM PER SPECIFICATIONS
19. FULL PORT BALL VALVE, TYP.
20. PUMP WIRED TO AQUASTAT & TIMER, PER 2018 IECC C404.6.1, "CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY"
21. CONDENSATE NEUTRALIZER. DISCHARGE TO FLOOR SINK WITH AIR GAP OF 2X PIPE DIA. ABOVE FLOOR SINK RIM
22. LARGE TMV
23. SMALL TMV
24. TEST CONNECTION
25. CIRCUIT SOLVER
26. DIAL THERMOMETER, TYP.
27. PRESSURE GAUGE
28. PUMP SHUT-OFFS
29. RECIRCULATION PUMP, RCP-1
30. CHECK VALVE
31. GALVANIZED STRUT
32. TEE BRACKET
33. CORNER BRACKET

NOTE:
WATER HEATER SHALL BE OF THE DIRECT VENTING TYPE, COORDINATE WITH MECHANICAL

INSTALL THERMOSTATIC MIXING VALVE ASSEMBLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. PROVIDE PIPING SCHEMATIC WITH SUBMITTALS.

A5 TWO - PARALLEL DOMESTIC WATER HEATERS - 2018 IECC

SCALE: NOT TO SCALE

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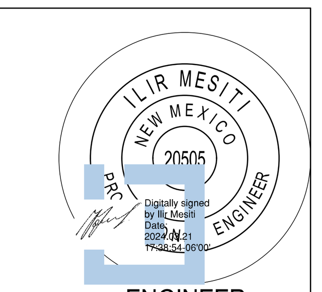

ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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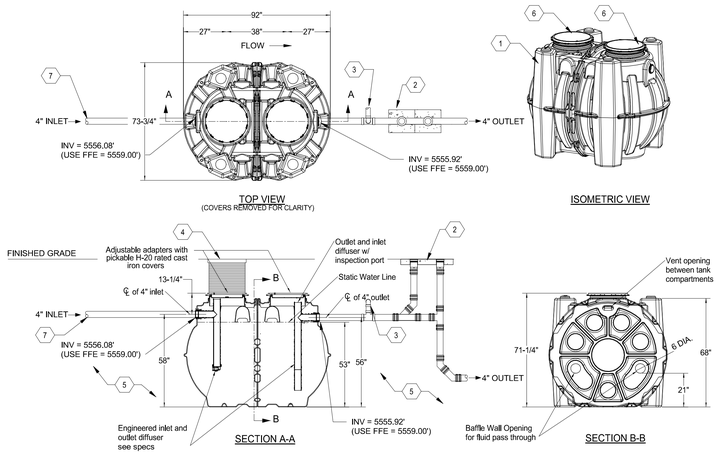
DRAWN BY:	MAR/PCN/MJS
CHECKED BY:	IM

SHEET TITLE

PLUMBING DETAILS

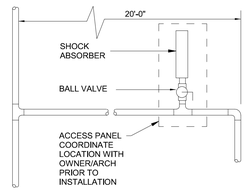
P-501



1. GREASE INTERCEPTOR, GB-1000. PROVIDE WITH EXTENSIONS TO FINISHED GRADE
2. DOUBLE CLEANOUT TO GRADE
3. 3" VENT, ONE ON INLET, ONE ON OUTLET, SEE **PL101B**
4. EXTENSIONS AS REQUIRED, CUT ON SITE, CAULKED FOR WATERTIGHT SEAL
5. COMPACTED OR UNDISTURBED SOIL OR ROCK AS PER MANUFACTURERS RECOMMENDATIONS
6. 24" MANHOLE FRAME AND COVER, H20 RATED, GAS TIGHT SEAL
7. SCH. 40 PVC INTERNAL PIPING FROM 4"COTG, SEE **PL101B**

D2 GREASE INTERCEPTOR - GB-1000

SCALE: NOT TO SCALE



NOTE:

FOR BRANCH LINES 20' OR LESS INSTALL SHOCK ABSORBERS BETWEEN LAST TWO FIXTURES.

FOR BRANCH LINES OVER 20' PROVIDE TWO SHOCK ABSORBER UNITS. THE SECOND ONE PLACED AT THE MIDPOINT OF THE LINE.

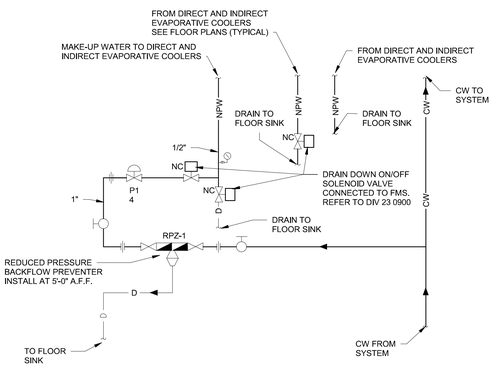
SHOCK ABSORBER SCHEDULE

* PDI CROSS REFERENCE	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

* PDI - PLUMBING AND DRAINAGE INSTITUTE.

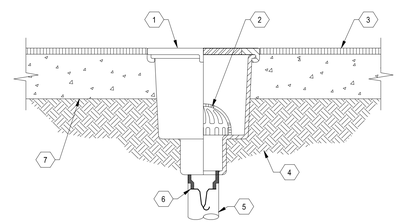
D5 SHOCK ABSORBER INSTALLATION

SCALE: NOT TO SCALE



C2 INDIRECT/DIRECT EVAPORATIVE COOLER AND DRAIN DOWN STATION DETAIL (TYPICAL)

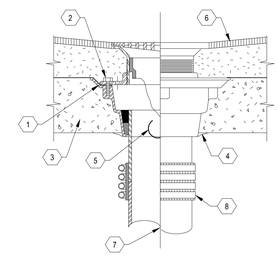
SCALE: NOT TO SCALE



1. FLOOR SINK GRATING, SEE FLOOR SINK SPECIFICATIONS
2. DOME STRAINER
3. FINISHED FLOOR
4. COMPACTED EARTH
5. SEE PLUMBING FLOOR PLANS FOR SIZING AND P-TRAP REQUIREMENTS
6. TRAP GUARD WATER SAVING DEVICE (SPECIFIED)
7. STRUCTURAL SLAB

C4 FLOOR SINK DETAIL

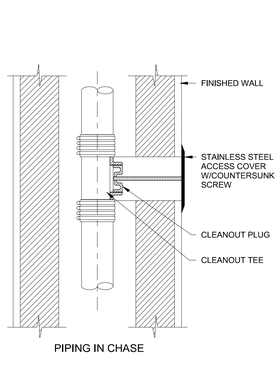
SCALE: NOT TO SCALE



1. FLOOR DRAIN WITH ADJUSTABLE STRAINER, DOUBLE DRAINAGE FLANGE AND WEEP HOLES. SEE FLOOR DRAIN SPECIFICATIONS
2. CLAMP TO 24"x24" 4# LEAD SHEET AND WATERPROOFING MEMBRANE (NOT REQUIRED FOR SINGLE POUR CONSTRUCTION)
3. CONCRETE FLOOR OF TWO POUR CONSTRUCTION
4. CAULK AS REQUIRED ON INSTALLATION ABOVE GRADE
5. TRAP GUARD WATER SAVING DEVICE SIZED PER DRAIN (IF SPECIFIED)
6. FINISHED FLOOR SLOPED IN ACCORDANCE WITH ARCH. DRAWINGS. COORDINATE WITH STRUCTURAL
7. SEE PLUMBING FLOOR PLANS FOR SIZING AND P-TRAP REQUIREMENTS
8. FOUR BAND HEAVY DUTY CLAMP, SEE SPECIFICATIONS

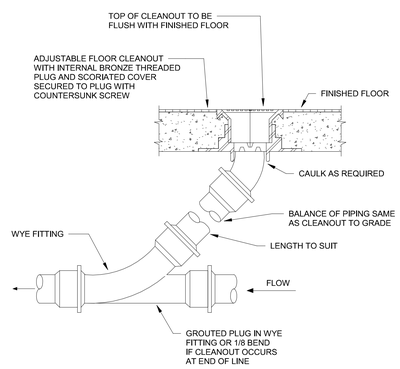
C5 FLOOR DRAIN DETAIL

SCALE: NOT TO SCALE



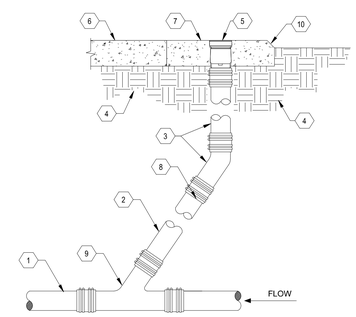
A1 WALL CLEANOUT DETAIL

SCALE: NOT TO SCALE



A2 FLOOR CLEANOUT

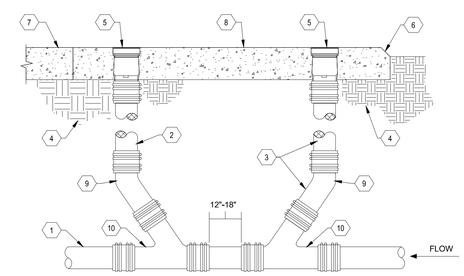
SCALE: NOT TO SCALE



1. SERVICE LINE, SEE SPECIFICATIONS FOR PIPE MATERIALS.
2. SAME SIZE AS SERVICE LINE, THRU 4" PIPE, MAXIMUM 4" SIZE REQUIRED.
3. CAST IRON SOIL PIPE RISER AND FITTINGS.
4. COMPACTED EARTH, SEE SPECIFICATIONS.
5. CLEANOUT WITH HEAVY DUTY SCORIATED SECURED TOP .
6. FINISH HARDSCAPE. SEE SITE PLAN DRAWINGS FOR ELEVATION.
7. 18"X18"X4" THICK CONCRETE COLLAR.
8. 1/8TH BEND.
9. WYE FITTING.
10. 2" CHAMFER ON ALL COLLARS IN EARTH.

A4 CLEANOUT TO GRADE DETAIL

SCALE: NOT TO SCALE



1. SERVICE LINE, SEE SPECIFICATIONS FOR PIPE MATERIALS.
2. SAME SIZE AS SERVICE LINE, THRU 4" PIPE, MAXIMUM 4" SIZE REQUIRED.
3. CAST IRON SOIL PIPE RISER AND FITTINGS.
4. COMPACTED EARTH, SEE SPECIFICATIONS.
5. CLEANOUT WITH HEAVY DUTY SCORIATED SECURED TOP
6. 2" CHAMFER ON ALL COLLARS IN EARTH.
7. FINISH HARDSCAPE. SEE SITE PLAN DRAWINGS FOR ELEVATION.
8. 4" THICK CONCRETE PAD.
9. 1/8TH BEND.
10. WYE FITTING.

A5 DOUBLE CLEANOUT TO GRADE - DETAIL

SCALE: NOT TO SCALE

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CONSTRUCTION DOCUMENTS
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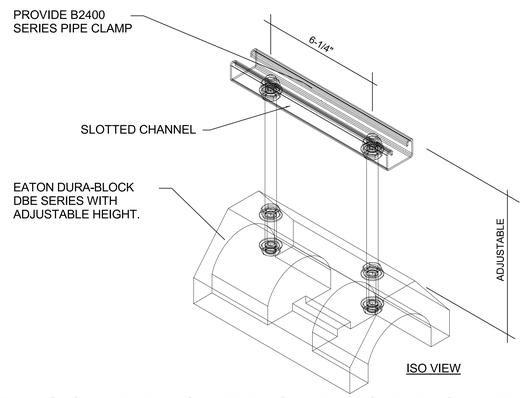
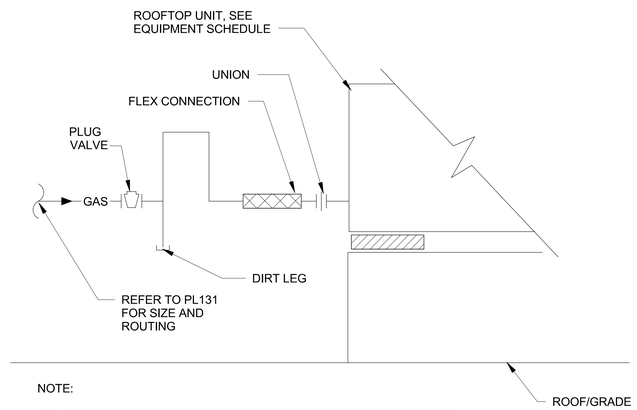
P-502

Bridgers & Paxton Project No: 8819 3/21/2024 5:00:05 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy



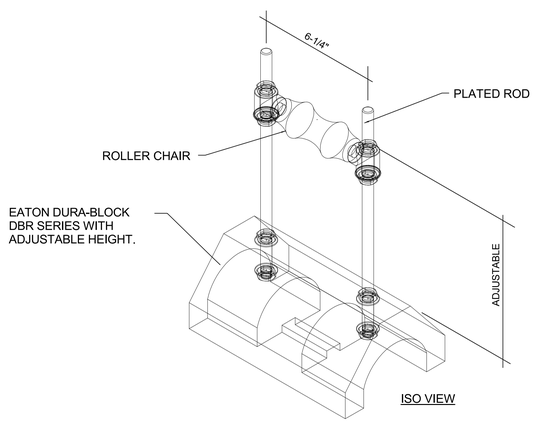
B4 CONDENSATE SUPPORT ON ROOF
NOT TO SCALE



NOTE:

ALL NATURAL GAS PIPING COMPONENTS INSTALLED OUTDOORS SHALL BE RATED FOR OUTDOOR INSTALLATION.

B5 GAS CONNECTION TO RTU
NOT TO SCALE



A4 GAS PIPE SUPPORT ON ROOF
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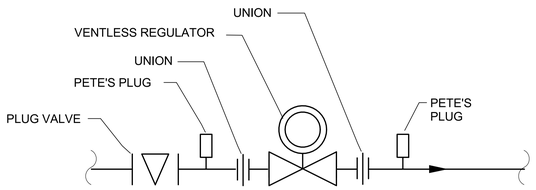
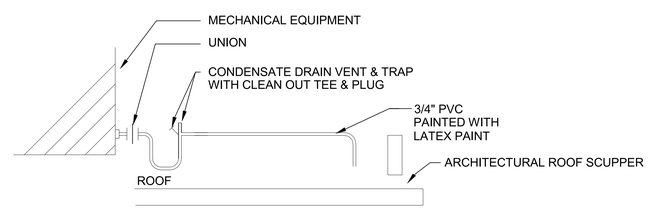


A3 GAS REGULATOR ASSEMBLY
NOT TO SCALE



A5 CONDENSATE DRAIN CONNECTION
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P-503

Bridgers & Paxton Project No: 8819 3/21/2024 5:00:05 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MJSanchez44.rvt
Farmington Preschool Academy

PLUMBING ROUGH-IN SCHEDULE

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION

SYMBOL*	FIXTURE	ROUGH-IN SIZE CW	HW	WASTE	VENT	TRAP	REMARKS:
P1	WATER CLOSET - FLOOR MTD. - FLUSH VALVE MANUAL	1"	-	4"	2"	INTEGRAL	ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD, FLOOR TO RIM HEIGHT: 15"
P1a	WATER CLOSET (BARRIER FREE) - FLOOR MTD. - FLUSH VALVE MANUAL	1"	-	4"	2"	INTEGRAL	ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD, FLOOR TO RIM HEIGHT: 16-1/2"
P1b	WATER CLOSET - FLOOR MTD. - FLUSH VALVE MANUAL	1"	-	4"	2"	INTEGRAL	ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD, FLOOR TO RIM HEIGHT: 10-1/4" PLUS 1-3/4" SEAT HEIGHT = 12" TOP OF SEAT.
P3a	LAVATORY (BARRIER FREE) - WALL MOUNT - MANUAL	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"	THREE HOLE, WHITE VITREOUS CHINA, 21-1/4" X 18-1/8", 4" CENTERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
P3b	LAVATORY (BARRIER FREE) - WALL MOUNT - MANUAL	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"	THREE HOLE, WHITE VITREOUS CHINA, 21-1/4" X 18-1/8", 4" CENTERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
P4a	SINK - SINGLE COMP.	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"	SINGLE BOWL, ADA
P4b	SINK - SINGLE COMP.	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"	SINGLE BOWL, ADA
P5	SERVICE SINK	1/2"	1/2"	3"	2"	3"	FLOOR MOUNTED, TERRAZZO, 36"x36"x12" DEEP, 3" DRAIN. PROVIDE: 3" CAST IRON P-TRAP.
P6	DRINKING FOUNTAIN (BARRIER FREE)	1/2"	-	2"	1-1/2"	1-1/4" X 1-1/2"	---
P8	WATER HAMMER ARRESTOR	1/2"	-	-	-	-	IN-LINE, PISTON TYPE, TYPE "L" COPPER BARREL WITH CAP ATTACHED WITH 95-5 SOLDER, LOW LEAD BRASS, EPDM "O" RINGS
P10	WALL HYDRANT	3/4"	-	-	-	-	CONTRACTOR TO VERIFY WALL THICKNESS AND LENGTH OF OPERATING ROD TO HEATED SPACE PRIOR TO ORDERING. SUPPLY PIPING TO INLET AND LINE SIZE VALVE SHALL BE ROUTED IN HEATED SPACE.
P10a	ROOF HYDRANT	3/4"	-	-	-	-	CAST IRON SUPPORT, UNDERDECK FLANGE, WELL SEAL SEALS, SHIMS, REPAIRS CAN BE MADE FROM TOP OF UNIT
P10b	YARD HYDRANT	1"	-	-	-	-	GALVANIZED STEEL CASING, GALVANIZED STEEL OPERATING ROD, 3/4" REMOVABLE NOZZLE, ADJUSTABLE LINK, FLOW FINDER AND LOCK
P12	WASHER ROUGH-IN BOX	1/2"	1/2"	2"	2"	2"	KNOCK OUTS, RAISED GRIP GUARDS, 4-1/2" X 5-1/4" WITH FACE UNIVERSAL FACEPLATE, 2" DRAIN PIPE CONNECTION.

FLOOR/ROOF DRAIN SCHEDULE

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION

SYMBOL*	MANUFACTURER	MODEL	VENT	REMARKS:
3"FD1	ZURN	Z415-BZ1-NH-ZB-VP-TSP-VP-Z1000	2"	ROUND TOP, 6" POLISHED BRONZE STRAINER, FLOOR AND SHOWER DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TOP ASSEMBLY, CONCRETE SHIELD, 1" POST POUR VERTICAL ADJUSTMENT, PRE-PACKAGED SHIMS FOR TILT CORRECTION AND INTEGRATED, SELF-CONTAINED "TYPE B" POLISHED BRONZE LIGHT DUTY, HEEL PROOF STRAINER WITH ROUGH-IN COVER FOR PROTECTION DURING CONCRETE POUR, VANDAL PROOF SECURED TOP, PROVIDE WITH DEEP SEAL P-TRAP, STRAINER OPEN AREA: 9 SQUARE INCHES SERVICE: RESTROOMS, LOCKERS, SHOWERS, ETC. SIZE AS INDICATED ON DRAWINGS. PROVIDE TRAP SEAL PROTECTION DEVICE Z1072 OR EQUAL, SIZE AND TYPE TO FIT DRAIN.
3"FS1	ZURN	Z-1900-NH-KC-3-32	2"	DEEP CAST IRON BODY WITH WHITE ACID RESISTING ENAMEL BODY INTERIOR, SQUARE, SLOTTED 3/4 LOOSE SET GRATE , ALUMINUM ANTI-SPASH DOME STRAINER, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, PROVIDE WITH DEEP SEAL P-TRAP AND SURE SEAL IN-LINE TRAP SEAL, SIZE AND TYPE TO FIT DRAIN, DIAMETER OF OUTLET AS SHOWN ON DRAWINGS.
4"FS1	ZURN	Z-1900-NH-KC-3-32	2"	DEEP CAST IRON BODY WITH WHITE ACID RESISTING ENAMEL BODY INTERIOR, SQUARE, SLOTTED 3/4 LOOSE SET GRATE , ALUMINUM ANTI-SPASH DOME STRAINER, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, PROVIDE WITH DEEP SEAL P-TRAP AND SURE SEAL IN-LINE TRAP SEAL, SIZE AND TYPE TO FIT DRAIN, DIAMETER OF OUTLET AS SHOWN ON DRAWINGS.
RD1	ZURN	Z100-NH-C-DE-R-VP	-	15" DIAMETER ROOF DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON DOME, UNDER DECK CLAMP, DECK EXTENSION, ROOF SUMP RECEIVER, VANDAL PROOF SECURED TOP, NO-HUB OUTLETS, SIZE AS INDICATED ON PLANS

PLUMBING FIXTURE SCHEDULE

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION

SYMBOL*	FIXTURE TYPE	FIXTURE MANUFACTURER	FIXTURE MODEL	TRIM/FAUCET MANUFACTURER	TRIM/FAUCET MODEL	FLOW RATE	ELECTRICAL INFO V	PH	HZ	A	REMARKS:
P1	WATER CLOSET - FLOOR MTD. - FLUSH VALVE MANUAL	AMERICAN STANDARD	3451.001	SLOAN	111-1.28-CO	1.28 GPF	-	-	-	-	EXPOSED, CHROME PLATED, LOW FLOW, DUAL-FILTERED FIXED BYPASS DIAPHRAGM, VACUUM BREAKER WITH FLUSH CONNECTION, BAK-CHEK ANGLE STOP WITH VANDAL RESISTANT STOP CAP. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE. MFG: CHURCH 9500SSCT OR EQUAL
P1a	WATER CLOSET (BARRIER FREE) - FLOOR MTD. - FLUSH VALVE MANUAL	AMERICAN STANDARD	3043.001	SLOAN	111-1.28-CO	1.28 GPF	-	-	-	-	EXPOSED, CHROME PLATED, LOW FLOW, DUAL-FILTERED FIXED BYPASS DIAPHRAGM, VACUUM BREAKER WITH FLUSH CONNECTION, BAK-CHEK ANGLE STOP WITH VANDAL RESISTANT STOP CAP. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE. MFG: CHURCH 9500SSCT OR EQUAL
P1b	WATER CLOSET - FLOOR MTD. - FLUSH VALVE MANUAL	AMERICAN STANDARD	2282.001	SLOAN	111-1.28-CO	1.28 GPF	-	-	-	-	EXPOSED, CHROME PLATED, LOW FLOW, DUAL-FILTERED FIXED BYPASS DIAPHRAGM, VACUUM BREAKER WITH FLUSH CONNECTION, BAK-CHEK ANGLE STOP WITH VANDAL RESISTANT STOP CAP. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE. MFG: CHURCH 9500SSCT OR EQUAL
P3a	LAVATORY (BARRIER FREE) - WALL MOUNT - MANUAL	AMERICAN STANDARD	0355.012	CHICAGO FAUCETS	802-VE2805ABCP	0.5 GPM	-	-	-	-	DECK MOUNT, CHROME, LEVER HANDLES, VANDAL PROOF, 4" CENTERS, PROVIDE QUARTER TURN ANGLE STOPS, RIGID COPPER SUPPLY RISERS, ADJUSTABLE P-TRAP AND ADA TRAP AND SUPPLY COVERS. PROVIDE WITH INWALL FLOOR MOUNTED CONCEALED ARM CARRIER SUPPORT. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P3b	LAVATORY (BARRIER FREE) - WALL MOUNT - MANUAL	AMERICAN STANDARD	0355.012	CHICAGO FAUCETS	802-VE2805ABCP	0.5 GPM	-	-	-	-	DECK MOUNT, CHROME, LEVER HANDLES, VANDAL PROOF, 4" CENTERS, PROVIDE QUARTER TURN ANGLE STOPS, RIGID COPPER SUPPLY RISERS, ADJUSTABLE P-TRAP AND ADA TRAP AND SUPPLY COVERS. PROVIDE WITH INWALL FLOOR MOUNTED CONCEALED ARM CARRIER SUPPORT. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P4a	SINK - SINGLE COMP.	ELKAY	LRAD191860	CHICAGO FAUCETS	895-317GN2AFCABCP	1.5 GPM	-	-	-	-	304 STAINLESS STEEL, SATIN, SINGLE BASIN, 19" X 18" X 6", DECK MOUNT MANUAL FAUCET, 4" CENTERS, 4" VANDAL PROOF WRIST BLADE HANDLES, 5-1/4" GOOSENECK SPOUT, PROVIDE WITH 17 GA. P-TRAP, QUARTER TURN ANGLE STOPS, RIGID COPPER SUPPLIES AND ADA TRAP AND SUPPLY COVERS, MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P4b	SINK - SINGLE COMP.	ELKAY	LRAD171655	CHICAGO FAUCETS	895-317GN2AFCABCP	1.5 GPM	-	-	-	-	304 STAINLESS STEEL, SATIN, SINGLE BASIN, 19" X 18" X 6", DECK MOUNT MANUAL FAUCET, 4" CENTERS, 4" VANDAL PROOF WRIST BLADE HANDLES, 5-1/4" GOOSENECK SPOUT, PROVIDE WITH 17 GA. P-TRAP, QUARTER TURN ANGLE STOPS, RIGID COPPER SUPPLIES AND ADA TRAP AND SUPPLY COVERS, MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P5	SERVICE SINK	FIAT PRODUCTS	TSBCR1000	CHICAGO FAUCETS	897-CCP	2.5 GPM	-	-	-	-	WALL MOUNTED SERVICE FAUCET 42" ABOVE FLOOR, CHROME PLATED WITH VACUUM BREAKER, INTEGRAL CHECK STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. PROVIDE: INTEGRAL STAINLESS STEEL STRAINER, 3" CAST IRON P-TRAP, HOSE AND BRACKET, 30" LONG FLEXIBLE HEAVY DUTY 5/8" RUBBER HOSE.MFG: FIAT No. 832 AA. MOP BRACKET, 24" LONG x 3" WIDE, STAINLESS STEEL WITH THREE RUBBER GRIPPS. MFG: FIAT No. 889 CC.
P6	DRINKING FOUNTAIN (BARRIER FREE)	ELKAY	LZSTLDDWSSK	-	-	8 GPH	-	-	-	-	BI-LEVEL, ADA DRINKING FOUNTAIN WITH BOTTLE FILLER, FILTERED, NON-REFRIGERATED, STAINLESS
P8	WATER HAMMER ARRESTOR	PRECISION PLUMBING PRODUCTS	-	-	-	-	-	-	-	-	0 TO 200 PSIG MAX, OPERATING PRESSURE, 1-11 FIXTURE UNITS
P10	WALL HYDRANT	WOODFORD	B65P	-	-	-	-	-	-	-	FREEZE-PROOF, INTEGRAL VACUUM BREAKER, WITH LOOSE-KEY, LOCKABLE DOOR, 3/4" INLET AND 3/4" GARDEN HOSE OUTLET, CHROME PLATED FINISH
P10a	ROOF HYDRANT	WOODFORD	SRH-MS-50H	-	-	-	-	-	-	-	FREEZELESS ROOF HYDRANT, INSTALLATION FLEXIBILITY, NO DRAIN LINE REQUIRED, AIR VENT, 3/4" FEMALE INLET CONNECTION, 3/4" HOSE CONNECTION
P10b	YARD HYDRANT	WOODFORD	Y2	-	-	-	-	-	-	-	FREEZE-PROOF, ONE PIECE VARIABLE FLOW PLUNGER, GALVANIZED STEEL, 1/8" NPT DRAIN BACKFLOW PREVENTER: MODEL 50HF
P12	WASHER ROUGH-IN BOX	IPS WATER TITE	MBS1200HA	-	-	-	-	-	-	-	FIRE RATED MULTI-BOX, SINGLE WASHING MACHINE OUTLET BOX, QUARTER TURN SUPPLY VALVES, INTEGRAL WATER HAMMER ARRESTORS

WATER HEATER SCHEDULE

NOTE:ALL WATER HEATERS SHALL COMPLY FULLY WITH THE 2018 IECC TABLE C404.2, MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	SET POINT (DEGREES)	FUEL	EFFICIENCY	STORAGE VOLUME (GAL.)	INPUT (BTUH)	ELEVATION	OPERATION WEIGHT	ELECTRICAL V	PH	HZ	AMPS	HOT WATER RECOVERY RATE (GPH)	Δ T °F	MIXING VALVE	EXPANSION TANK	REMARKS:
WH-1	BRADFORD WHITE CORP	EF-100T-150E-3N(A)	PLUMBING 232	KITCHEN	TANK TYPE	140	NATURAL GAS	97%	100	150,000	5,473	1,734	120	1	60	15A	196	90	TMV-1	EXP-1	DIRECT VENT, SEALED COMBUSTION WATER HEATER, INSTALL ON 4" MIN. HOUSEKEEPING PAD, ROUTE FULL SIZED T&P RELIEF VALVE TO NEAREST FLOOR SINK. PROVIDE CONDENSATE NEUTRALIZATION KIT NO. A2123601., NSF COMLIANT KIT AND BACKNET GATEWAY KIT. REFER TO AND COORDINATE SUPPLY INTAKE AND EXHAUST FLUE SIZE, MATERIALS AND ROUTING WITH MECHANICAL.
WH-2	BRADFORD WHITE CORP	EF-100T-150E-3N(A)	PLUMBING 232	BUILDING	TANK TYPE	140	NATURAL GAS	97%	100	150,000	5,473	1,734	120	1	60	15A	196	90	TMV-2	EXP-2	DIRECT VENT, SEALED COMBUSTION WATER HEATER, INSTALL ON 4" MIN. HOUSEKEEPING PAD, ROUTE FULL SIZED T&P RELIEF VALVE TO NEAREST FLOOR SINK. PROVIDE CONDENSATE NEUTRALIZATION KIT NO. A2123601., NSF COMLIANT KIT AND BACKNET GATEWAY KIT. REFER TO AND COORDINATE SUPPLY INTAKE AND EXHAUST FLUE SIZE, MATERIALS AND ROUTING WITH MECHANICAL.
WH-3	BRADFORD WHITE CORP	EF-100T-150E-3N(A)	PLUMBING 232	BUILDING	TANK TYPE	140	NATURAL GAS	97%	100	150,000	5,473	1,734	120	1	60	15A	196	90	TMV-2	EXP-2	DIRECT VENT, SEALED COMBUSTION WATER HEATER, INSTALL ON 4" MIN. HOUSEKEEPING PAD, ROUTE FULL SIZED T&P RELIEF VALVE TO NEAREST FLOOR SINK. PROVIDE CONDENSATE NEUTRALIZATION KIT NO. A2123601., NSF COMLIANT KIT AND BACKNET GATEWAY KIT. REFER TO AND COORDINATE SUPPLY INTAKE AND EXHAUST FLUE SIZE, MATERIALS AND ROUTING WITH MECHANICAL.

DOMESTIC HOT WATER RECIRCULATION STATION SCHEDULE (TMV & RCP)

SYMBOL*	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	THERMOSTATIC MIXING VALVE: SYSTEM FLOW (GPM) AND PRESSURE DROP (PSIG)	OUTLET TEMPERATURE	PIPE SIZE INLETS	PIPE SIZE OUTLET	RETURN PIPE SIZE	RECIRCULATION PUMP: SYSTEM CAPACITY GPM	TDH	MANUFACTURER & MODEL NUMBER	PUMP (RPM) EACH	MOTOR (HP) EACH	ELECTRICAL V	PH	HZ	FLA	DIMENSIONS: ENTIRE FOOTPRINT INLCULDING MOUNTING FRAME & CONTROL PANEL	REMARKS:
TMV-1/RCP-1	LEONARD VALVE	S-PNV-100-LF-M	PLUMBING 232	KITCHEN DOMESTIC HOT WATER	RECIRCULATION STATION	17GPM @ 5 PSIG	120ºF	3/4"	1"	3/4"	2	10	B&G ECOCIRC+ 20-18 MODEL #60B0B1004	VARIABLE	1/12	120	1	60	1.02	30.5"WIDE X 52.5" TALL X 12"DEEP	
TMV-2/RCP-2	LEONARD VALVE	PNV-200-LF-M	PLUMBING 232	DOMESTIC HOT WATER	RECIRCULATION STATION	80 GPM @ 5 PSIG	120ºF	2"	2"	1 1/4"	5	20	B&G ECOCIRC XL 36-45 MODEL #104451LF	VARIABLE	1/6	120	1	60	3	30.5"WIDE X 52.5" TALL X 12"DEEP	

INTERCEPTOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	PDI RATING (GPM)	CAPACITY (LBS.)	WEIGHT (LBS.)	DIMENSIONS	REMARKS:
HGI-1	SCHIER PRODUCTS	GB-1000	EXTERIOR	KITCHEN	HYDROMECHANICAL	1000	5,495	8,413	92" L x 74" W x 72" H	GB-1000 SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY-MOLDED POLYETHYLENE, INTERCEPTOR SHALL BE FURNISHED FOR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE D FOR 100 GPM AND CSA B481.1, WITH ADJUSTABLE COVER ADAPTERS, SAFETY STAR ACCESS RESTRICTOR BUILT INTO EACH COVER ADAPTER, BUILT-IN FLOW CONTROL. INTERCEPTOR FLOW RATE SHALL BE 100 GPM. INTERCEPTOR GREASE AT CAPACITY SHALL BE 5,495 LBS. @ 100 GPM. COVER SHALL PROVIDE WATER/ GAS-TIGHT SEAL AND HAVE MINIMUM 40,000 LBS. LOAD CAPACITY AND RATED FOR HEAVU DUTY TRAFFIC. PROVIDE EXTENSIONS TO GRADE AS REQUIRED AND PROVIDE WITH SEWER VIEWER AND EXTEIONS AFTER GREASE INTERCETOR. PROVIDE ANCHOR KIT IF REQUIRED AND INSTALL PER MANUFACTURERS REQUIREMENTS. PROVIDE SEWER VIEWER BY MANUFACTURER AFTER GREASE INTERCEPTOR. COORDINATE REQUIREMENTS FOR 8" THICK CONCRETE COLLAR PER MANUFACTURERS REQUIREMENTS.

PLUMBING EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	DESIGN DEG ºF	TANK VOLUME (GAL.)	TANK ACCEPTANCE (GAL.)	PSIG	WEIGHT (LBS.)	REMARKS
EXP-1	AMTROL	ST-12C-DD	WH-1	140	6.4	3.2	55	26	CONTRACTOR SHALL FIELD ADJUST THERMAL EXPANSION TANK TO CORRESPOND WITH VERIFIED BUILDING PRESSURE. INSTALL AND ADJUST PER MANUFACTURERS REQUIREMENTS. SUPPORT AND BRACE AND COORDINATE LOCATION OF EXPANION TANK.
EXP-2	AMTROL	ST-12C-DD	WH-2&3	140	6.4	3.2	55	26	CONTRACTOR SHALL FIELD ADJUST THERMAL EXPANSION TANK TO CORRESPOND WITH VERIFIED BUILDING PRESSURE. INSTALL AND ADJUST PER MANUFACTURERS REQUIREMENTS. SUPPORT AND BRACE AND COORDINATE LOCATION OF EXPANION TANK.

PLUMBING PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	SYSTEM CAPACITY GPM	TOTAL FT. HD.	PUMP (RPM)	MOTOR (HP)	ELECTRICAL V	PH	HZ	AMPS	BASIN DIMENSIONS	REMARKS:
SP-1	ZOELLER	940-0012 PREPACKAGED SYSTEM	ELEVATOR	ELEVATOR PIT	OIL GUARD/DUPLEX	53	15	3450	4/10	115	1	60	8.5	30"W X 30"L X 30"D	COMPLETE DUPLEX PREPACKED OIL GUARD PUMP SYSTEM. PROVIDE WITH DUPLEX ALTERNATING PANEL WITH (2) 30 AMP MOTOR START RELAYS, ALARM PANEL AND HORN, DRY AUX CONTACTS AND NEMA 4X ENCLOSURE, OIL PUMP SWITCH, OIL HIGH LIQUID ALARM SWITCH. PUMPS SHALL BE RATED FOR USE FOR AN ELEVATOR SYSTEM. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.

PLUMBING BACKFLOW SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	PIPE SIZE (IN)	FLOW (GPM)	PSI LOSS	REMARKS:
RPZ-1	FEBCO	LF860 SMALL	PENTHOUSE	DOMESTIC	HORIZONTAL - IN-LINE	3/4"	40	10	LEAD FREE, REDUCED PRESSURE ZONE ASSEMBLY, THE COMPLETE ASSEMBLY SHALL INCLUDE TWO SHUTOFF VALVES AND FOUR TEST COCKS, END CONNECTIONS SHALL INCLUDE NPT ANSI/ASME B1.20.1, THE LEAD FREE REDUCED PRESSURE ZONE ASSEMBLIES SHALL COMPLY WITH STATE CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT. INSTALL BFP 3FT ABOVE FINISHED FLOOR. SUPPORT ASSEMBLY AND ROUTE LINE SIZE DRAIN TO NEAREST FLOOR SINK AND TERMINATE INDIRECTLY.
RPZ-2	FEBCO	LF860 SMALL	PENTHOUSE	DOMESTIC	HORIZONTAL - IN-LINE	3/4"	40	10	LEAD FREE, REDUCED PRESSURE ZONE ASSEMBLY, THE COMPLETE ASSEMBLY SHALL INCLUDE TWO SHUTOFF VALVES AND FOUR TEST COCKS, END CONNECTIONS SHALL INCLUDE NPT ANSI/ASME B1.20.1, THE LEAD FREE REDUCED PRESSURE ZONE ASSEMBLIES SHALL COMPLY WITH STATE CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT. INSTALL BFP 3FT ABOVE FINISHED FLOOR. SUPPORT ASSEMBLY AND ROUTE LINE SIZE DRAIN TO NEAREST FLOOR SINK AND TERMINATE INDIRECTLY.
RPZ-3	FEBCO	LF860 SMALL	PENTHOUSE	DOMESTIC	HORIZONTAL - IN-LINE	3/4"	40	10	LEAD FREE, REDUCED PRESSURE ZONE ASSEMBLY, THE COMPLETE ASSEMBLY SHALL INCLUDE TWO SHUTOFF VALVES AND FOUR TEST COCKS, END CONNECTIONS SHALL INCLUDE NPT ANSI/ASME B1.20.1, THE LEAD FREE REDUCED PRESSURE ZONE ASSEMBLIES SHALL COMPLY WITH STATE CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT. INSTALL BFP 3FT ABOVE FINISHED FLOOR. SUPPORT ASSEMBLY AND ROUTE LINE SIZE DRAIN TO NEAREST FLOOR SINK AND TERMINATE INDIRECTLY.
RPZ-4	FEBCO	LF860 SMALL	FIRE RISER	DOMESTIC	HORIZONTAL - IN-LINE	3/4"	40	10	LEAD FREE, REDUCED PRESSURE ZONE ASSEMBLY, THE COMPLETE ASSEMBLY SHALL INCLUDE TWO SHUTOFF VALVES AND FOUR TEST COCKS, END CONNECTIONS SHALL INCLUDE NPT ANSI/ASME B1.20.1, THE LEAD FREE REDUCED PRESSURE ZONE ASSEMBLIES SHALL COMPLY WITH STATE CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT. INSTALL BFP 3FT ABOVE FINISHED FLOOR. SUPPORT ASSEMBLY AND ROUTE LINE SIZE DRAIN TO NEAREST FLOOR SINK AND TERMINATE INDIRECTLY.
RPZ-5	FEBCO	LF860 SMALL	MECH	DOMESTIC	HORIZONTAL - IN-LINE	3/4"	40	10	LEAD FREE, REDUCED PRESSURE ZONE ASSEMBLY, THE COMPLETE ASSEMBLY SHALL INCLUDE TWO SHUTOFF VALVES AND FOUR TEST COCKS, END CONNECTIONS SHALL INCLUDE NPT ANSI/ASME B1.20.1, THE LEAD FREE REDUCED PRESSURE ZONE ASSEMBLIES SHALL COMPLY WITH STATE CODES AND STANDARDS, WHERE APPLICABLE, REQUIRING REDUCED LEAD CONTENT. INSTALL BFP 3FT ABOVE FINISHED FLOOR. SUPPORT ASSEMBLY AND ROUTE LINE SIZE DRAIN TO NEAREST FLOOR SINK AND TERMINATE INDIRECTLY.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	MAR/PCN/MJS
CHECKED BY:	IM

SHEET TITLE
PLUMBING SPECIFICATIONS

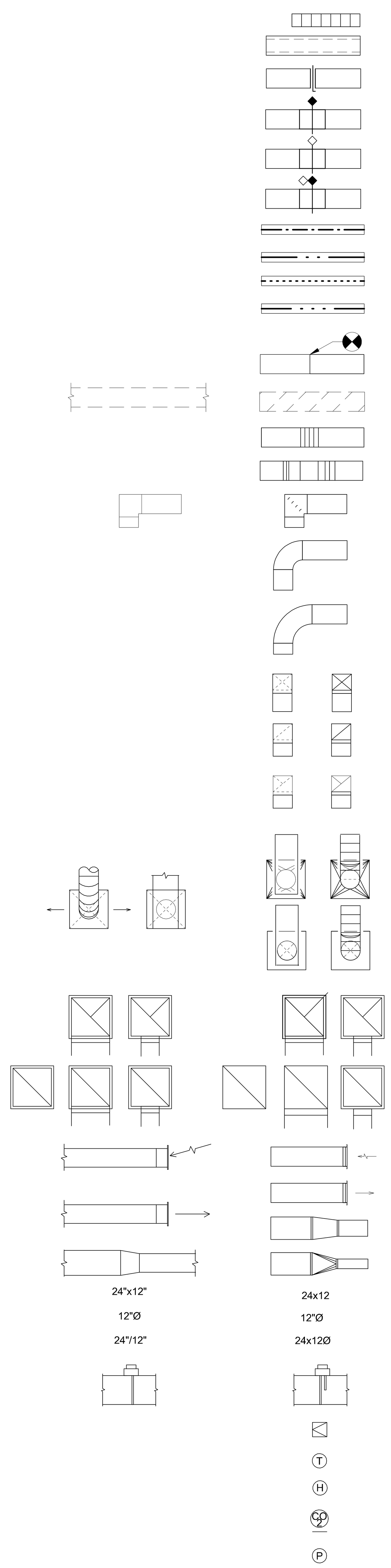
P-701

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUATION
D	DRAIN
DX	DIRECT EXPANSION
ENT	ENTERING
EXH	EXHAUST
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
°F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F.G.	FILTER GAUGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FLAT TOP
FT.	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER (QUANTITY)
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
QTY	QUANTITY
QUAD	QUADRANT
R.A.	RETURN AIR
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SCD	SMOKE CONTROL DAMPER
SP	STATIC PRESSURE (INCHES OF WATER)
SDVV	SINGLE DUCT VARIABLE VOLUME
ST	SOUND TRAP
TOPT	TOP OF PIPE TRAPEZE
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP.	TYPICAL
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VTR	VENT THRU ROOF

MECHANICAL SYMBOL LEGEND

DUCTWORK SYMBOLS

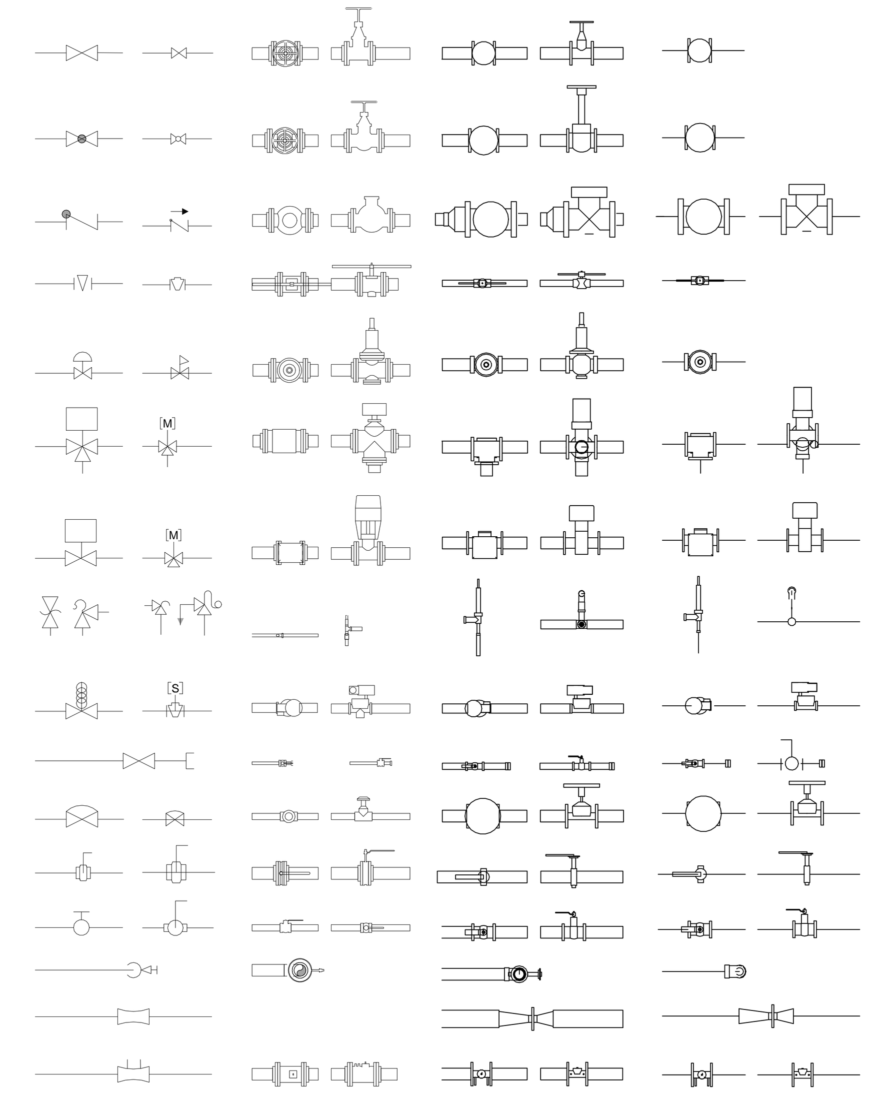


- FLEXIBLE DUCT
- ACOUSTICAL DUCT LINING
- MANUAL BALANCING DAMPER (HD)
- FIRE DAMPER (FRD)
- SMOKE DAMPER (SMD)
- COMBINATION FIRE/SMOKE DAMPER (FSD)
- 1 HR. FIRE BARRIER
- 2HR. FIRE BARRIER
- SMOKE BARRIER
- 2HR. SMOKE BARRIER

VERIFY WITH ARCHITECTURAL DRAWINGS

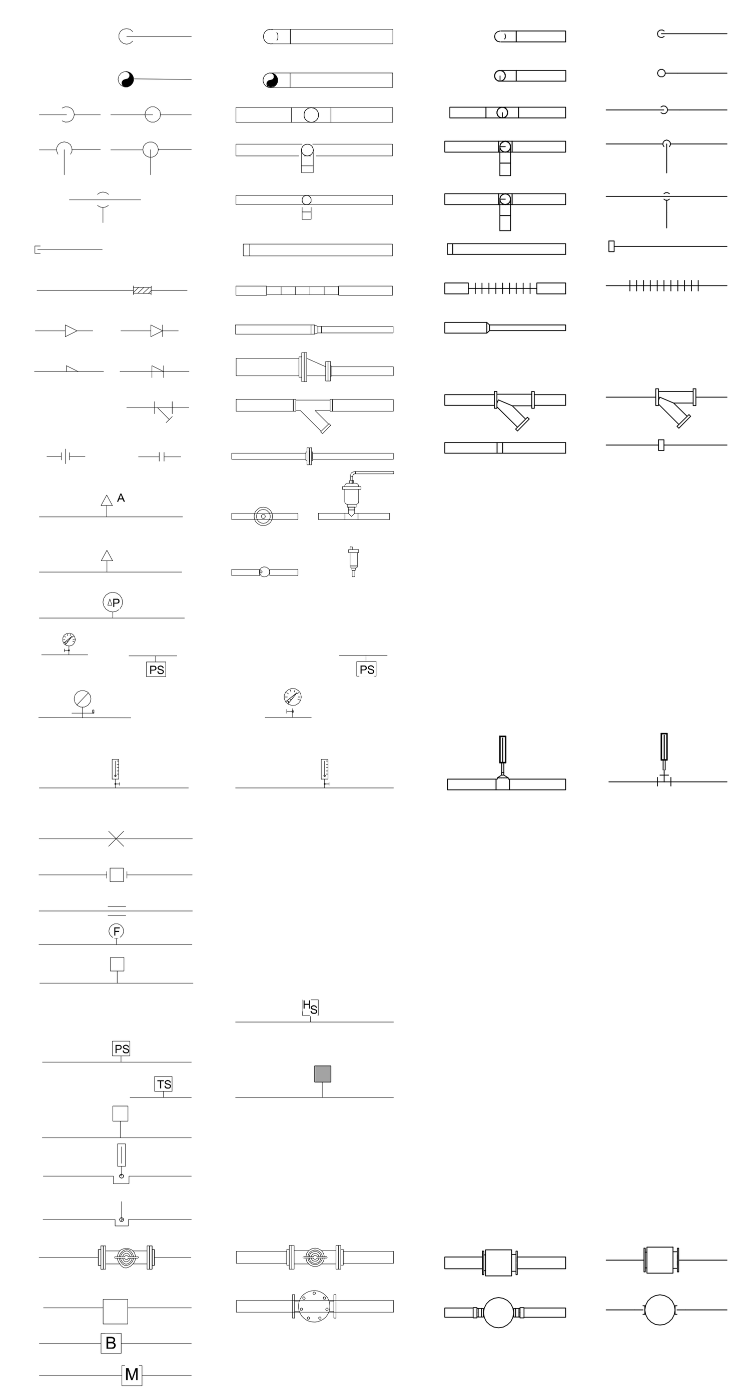
- CONNECT NEW DUCT TO EXISTING DUCT
- EXISTING DUCT TO BE REMOVED
- FLEXIBLE CONNECTION
- RISE IN DUCT
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EXCEPT TRANSFER AIR SOUND ELBOW)
- SHORT RADIUS ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EXCEPT TRANSFER AIR SOUND ELBOW)
- STANDARD LONG RADIUS ELBOW
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- STAMPED FACE CEILING DIFFUSERS
- CEILING SUPPLY AIR DIFFUSERS
- PERFORATED FACE CEILING DIFFUSERS
- CEILING EXHAUST REGISTER
- CEILING RETURN AIR REGISTER OR GRILLE
- SIDEWALL EXHAUST OR RETURN AIR GRILLE OR REGISTER
- SIDEWALL SUPPLY REGISTER
- DUCT TRANSITION
- DUCT TRANSITION FROM RECTANGULAR TO ROUND
- INDICATES A 24"x12" RECTANGULAR DUCT (WIDTH x DEPTH)
- INDICATES A 12" ROUND DUCT
- INDICATES A 24"x12" FLAT OVAL DUCT (WIDTH x DEPTH)
- DUCT MOUNTED STATIC PRESSURE PROBE
- ACCESS DOOR
- ROOM THERMOSTAT/TEMP. TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- ROOM HUMIDISTAT/HUMIDITY TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- ROOM CARBON DIOXIDE TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- PRESSURE DIFFERENTIAL SWITCH

VALVE SYMBOLS



- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- 3-WAY MODULATING CONTROL VALVE
- 2-WAY CONTROL VALVE
- SAFETY VALVE OR PRESSURE RELIEF VALVE
- SOLENOID VALVE
- 3/4" BALL VALVE WITH ADAPTER TO 3/4" HOSE THREAD
- DIAPHRAGM VALVE
- BUTTERFLY VALVE
- BALL VALVE
- VALVE IN RISE
- WATER FLOW MEASURING DEVICE
- CIRCUIT SETTER

FITTING SYMBOLS



- ELBOW - DOWN
- ELBOW - UP
- PIPE RISE-DROP
- ELBOW - DROP TO TEE
- TEE - DROP FROM TEE
- END CAP
- FLEX CONNECTION
- PIPE REDUCER - CONCENTRIC
- PIPE REDUCER - ECCENTRIC
- PIPE STRAINER
- UNION - SCREWED
- AIR VENT - AUTOMATIC
- AIR VENT - MANUAL
- GAUGE - DIFFERENTIAL
- GAUGE - PRESSURE
- GAUGE - PRESSURE WITH COCK
- GAUGE - TEMPERATURE
- PIPE ANCHOR
- PIPE EXPANSION JOINT
- PIPE GUIDE
- SENSOR - FLOW
- SWITCH - FLOW
- SWITCH HUMIDITY
- SWITCH - PRESSURE
- SWITCH - TEMPERATURE
- TEMPERATURE - PRESSURE TEST FITTING
- THERMOMETER
- THERMOMETER WELL
- BASKET STRAINER
- STEAM TRAP INVERTED BUCKET
- METER - TOTALIZING BTU
- METER - TOTALIZING FLOW

PIPING SYMBOLS

MECHANICAL PIPING

HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
D	DRAIN
CD	CONDENSATE DRAIN
V	VENT
MU	MAKE-UP WATER
RS	REFRIGERATION SUCTION
RL	REFRIGERATION LIQUID
R	REFRIGERATION
TWS	TOWER WATER RETURN
TWR	TOWER WATER RETURN
TWB	TOWER WATER BYPASS
HPS	STEAM - HIGH PRESSURE SUPPLY
HPR	STEAM - HIGH PRESSURE RETURN
MPS	STEAM - MEDIUM PRESSURE SUPPLY
HPR	STEAM - MEDIUM PRESSURE RETURN
LPS	STEAM - LOW PRESSURE SUPPLY
LPR	STEAM - LOW PRESSURE RETURN
CND	CONDENSER WATER
PC	PUMPED CONDENSATE
GWS	GEOTHERMAL SUPPLY
GWR	GEOTHERMAL RETURN
DOWN	DIRECTION PITCH
	DIRECTION OF FLOW
	EXISTING
	DEMO

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

SECTION SYMBOL

SECTION LOCATION — A1
DRAWING NUMBER WHERE DETAILED — M301

DETAIL SYMBOL

DETAIL LOCATION — X#/X###
DRAWING NUMBER WHERE DETAILED

SECTION AND DETAIL TITLES

SECTION LETTER LOCATION — A1 SECTION / SCALE

DETAIL NUMBER LOCATION — A1 DETAIL / SCALE

EQUIPMENT SYMBOLS

XX-##
- LETTERS REFER TO THE EQUIPMENT TYPE
- NUMBERS REFER TO SPECIFIC EQUIPMENT
- SYMBOL INDICATES EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE

##x## / XX-# / ###
- SIDEWALL GRILLE DIMENSION WHERE SHOWN ON PLANS
- SYMBOL INDICATES GRILLE OR DIFFUSER IDENTIFIED IN EQUIPMENT SCHEDULE
- CFM

GENERAL NOTES

A. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.

B. PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. THEY SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATION. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.

C. WATER PIPE CONNECTIONS TO WATER COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.

D. COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).

E. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.

F. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. REFER TO SPECIFICATION 23 0700 FOR ISULATION REQUIREMENTS.

G. PROVIDE 1/2" MANUAL AIR VENTS AT ALL HIGH POINTS OF CLOSED SYSTEM PIPING AND 1/2" MANUAL DRAIN VALVES WITH HOSE CONNECTION AT LOW POINTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM DRAINAGE. WHERE DRAIN VALVES OCCUR ABOVE CEILING AREAS AND IN AREAS OUTSIDE MECHANICAL RANGE PROVIDE HOSE CONNECTION ON VALVE.

H. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS.

I. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.

J. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.

K. CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.

L. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC., AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT, WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.

M. CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 350 FPM (UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS) TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY NOTE "J".

N. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.

O. MECHANICAL ITEMS SUCH AS ROOF DRAINS, FLOOR DRAINS, PLUMBING FIXTURES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS BUT NOT SHOWN ON THE MECHANICAL DRAWINGS SHALL BE INCLUDED IN THE PROJECT. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR INCLUSION IN ADDENDUM.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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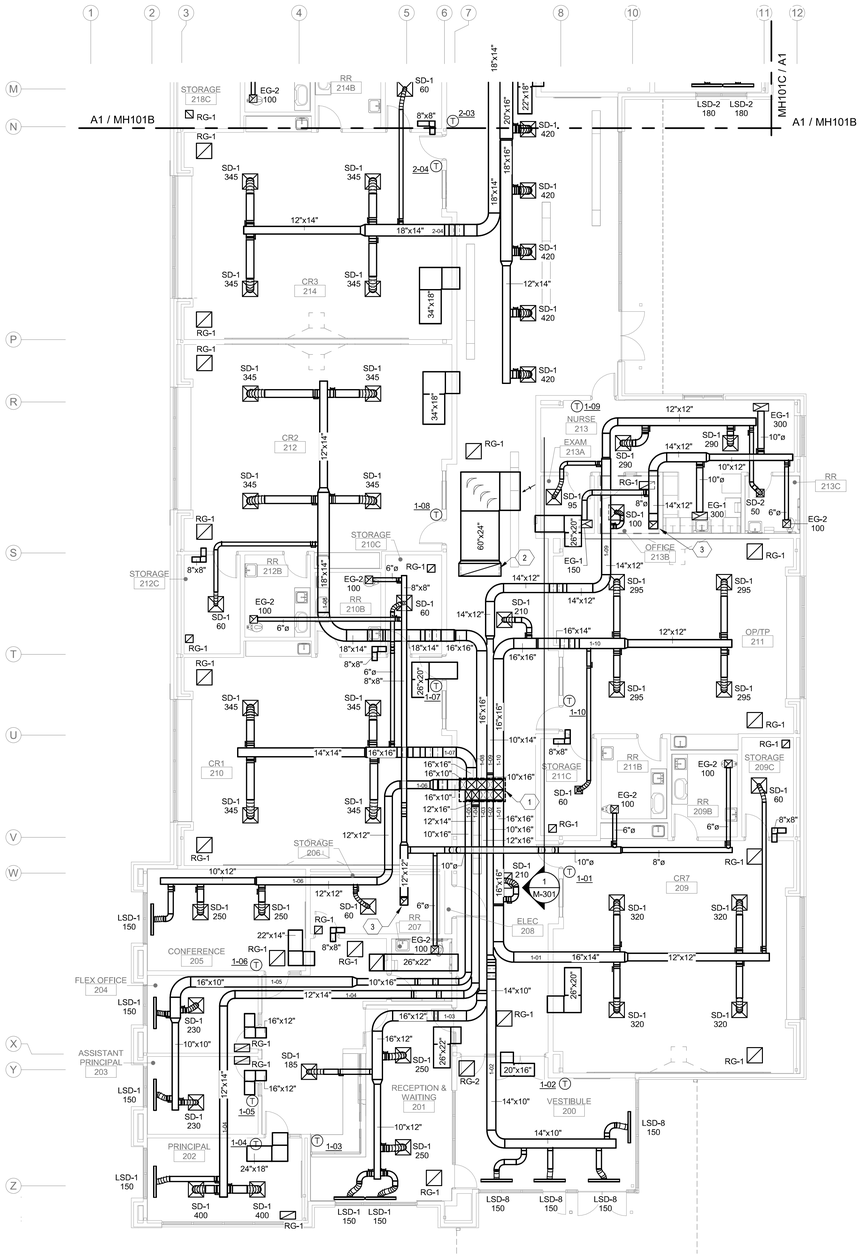
DRAWN BY:	LMD
CHECKED BY:	IM

SHEET TITLE
MECHANICAL LEGEND

M-001

Farmington Preschool Academy



A1 HVAC FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

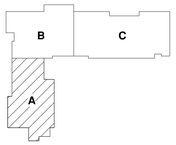
0' 4' 8' 16'

GENERAL NOTES

A. COORDINATE DUCT ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. PROVIDE 1" ACOUSTICAL LINING ON ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. SEE SPECIFICATION 23 0700 FOR INSULATION REQUIREMENTS.
C. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
D. SEE DETAIL E5/M-501 FOR LOW VELOCITY FITTING DETAILS.
E. SEE DETAILS D2/M-501 FOR DIFFUSER AND REGISTER CONNECTIONS. PROVIDE MANUAL BALANCING DAMPERS FOR EACH CONNECTION.
F. MOUNT TEMPERATURE SENSORS PER SPECIFICATION.
G. THERMOSTATS LOCATED IN COMMON AREAS TO BE PROVIDED WITH METAL COVER AND LOCK.
H. PROVIDE SOUND TEE FOR ALL CEILING RETURN AIR GRILLES PER DETAIL A5/M-501.
I. INSTALL TRANSFER AIR DUCTS AND TRANSFER AIR OPENINGS ABOVE CEILING LEVEL. SIZE AS SHOWN ON PLANS. SEE DETAIL B4/M-501.
J. ALL EXPOSED DUCTWORK TO BE PAINTED PER ARCHITECTURAL SPECIFICATIONS.
K. USE TURNING VANES IN ALL RECTANGULAR TEES AND MITERED ELBOWS.
L. REFER TO SHEETS M-501 THROUGH M-503 FOR MECHANICAL DETAILS.

KEYNOTES

1. INDIVIDUAL SUPPLY DUCTS UP THROUGH MECHANICAL ROOM FLOOR TO MULTI-ZONE UNIT CONNECTION. SEE DETAIL C5/M-501. REFER TO "INDOOR VAV MULTI-ZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT- INDIVIDUAL ZONE SCHEDULE" FOR CONNECTION SIZE.
2. RETURN DUCT, OF SIZE INDICATED, DOWN FROM MECHANICAL ROOM ABOVE. SEE DETAIL D5/M-501.
3. EXHAUST DUCT, OF SIZE INDICATED, UP THROUGH ROOF TO ROOFTOP EXHAUST FAN.



KEY PLAN
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MARCH 2024

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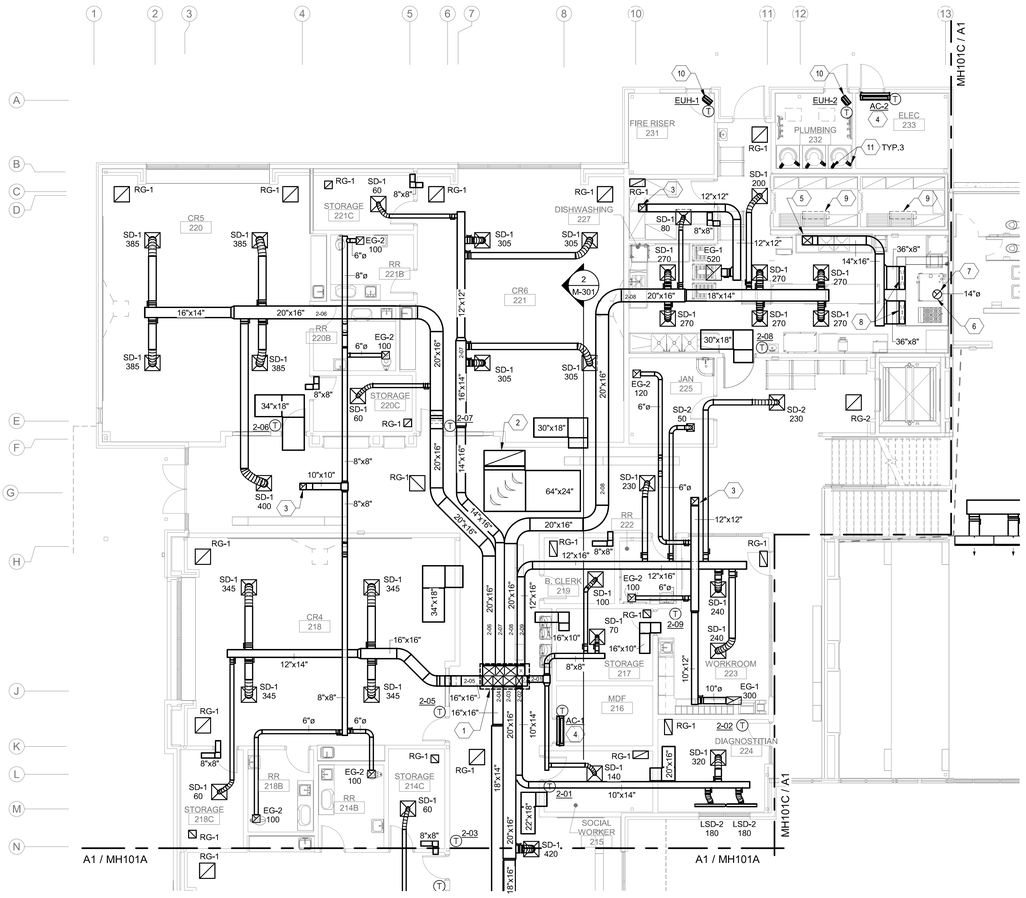
SHEET TITLE
HVAC FLOOR PLAN - GROUND LEVEL 'A'

MH101A

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:33 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt

Farmington Preschool Academy



GENERAL NOTES

A. COORDINATE DUCT ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. PROVIDE 1" ACOUSTICAL LINING ON ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. SEE SPECIFICATION 23 0700 FOR INSULATION REQUIREMENTS.
C. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
D. SEE DETAIL E5/M-501 FOR LOW VELOCITY FITTING DETAILS.
E. SEE DETAILS D2/M-501 FOR DIFFUSER AND REGISTER CONNECTIONS. PROVIDE MANUAL BALANCING DAMPERS FOR EACH CONNECTION.
F. MOUNT TEMPERATURE SENSORS PER SPECIFICATION.
G. THERMOSTATS LOCATED IN COMMON AREAS TO BE PROVIDED WITH METAL COVER AND LOCK.
H. PROVIDE SOUND TEE FOR ALL CEILING RETURN AIR GRILLES PER DETAIL A5/M-501.
I. INSTALL TRANSFER AIR DUCTS AND TRANSFER AIR OPENINGS ABOVE CEILING LEVEL. SIZE AS SHOWN ON PLANS. SEE DETAIL B4/M-501.
J. ALL EXPOSED DUCTWORK TO BE PAINTED PER ARCHITECTURAL SPECIFICATIONS.
K. USE TURNING VANES IN ALL RECTANGULAR TEES AND MITERED ELBOWS.
L. REFER TO SHEETS M-501 THROUGH M-503 FOR MECHANICAL DETAILS.

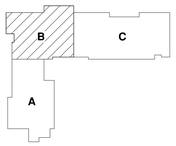
KEYNOTES

1. INDIVIDUAL SUPPLY DUCTS UP THROUGH MECHANICAL ROOM FLOOR TO MULTI-ZONE UNIT CONNECTION. SEE DETAIL C5/M-501. REFER TO INDOOR VAV MULTI-ZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT- INDIVIDUAL ZONE SCHEDULE FOR CONNECTION SIZE.
2. RETURN DUCT, OF SIZE INDICATED, DOWN FROM MECHANICAL ROOM ABOVE. SEE DETAIL D5/M-501.
3. EXHAUST DUCT, OF SIZE INDICATED, UP THROUGH ROOF TO ROOFTOP EXHAUST FAN.
4. INDOOR AIR CONDITIONING UNIT MOUNTED ABOVE DOOR. COORDINATE LOCATION WITH ARCHITECT.
5. 14"X16" MAKE-UP AIR DUCT DOWN FROM MAKE-UP AIR UNIT ON ROOF. DO NOT ACOUSTICALLY LINE.
6. 14" EXHAUST DUCT UP THROUGH ROOF TO KITCHEN EXHAUST FAN. REFER TO DETAIL A1/M-502.
7. GREASE EXHAUST DUCT SHALL BE CONSTRUCTED OF 16 GA. WELDED BLACK IRON WITH ALL JOINTS WELDED LIQUID TIGHT. INSULATE ALL GREASE DUCT IN CEILING SPACE WITH 2" THICK UNIFRAX "FIREWRAP MAX 2.0 – ICC SYSTEM" OR EQUIVALENT 2-HOUR RATED MATERIAL. PROVIDE ACCESS DOORS IN DUCTWORK FOR CLEANING AS REQUIRED BY LOCAL CODES. REFER TO DETAIL A1/M502 AND SPECIFICATIONS.
8. CONNECT DUCT TO KITCHEN HOOD. VERIFY DUCT CONNECTION SIZE WITH FOOD SERVICE EQUIPMENT CONTRACTOR. KITCHEN HOOD PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.
9. COOLER/FREEZER EVAPORATOR COIL FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING FROM ROOFTOP CONDENSING UNIT TO INDOOR COOLER/FREEZER EVAPORATOR COIL. INSTALL PIPING PER MANUFACTURER'S REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.
10. ELECTRIC UNIT HEATER PER EQUIPMENT SCHEDULE. INSTALL 8'-0" A.F.F.
11. 4"Ø WATER HEATER VENT AND COMBUSTION AIR PIPING. VENT PIPING MATERIAL SHALL BE STAINLESS STEEL DOUBLE-WALLED CATEGORY IV CONSTRUCTION. COMBUSTION AIR PIPING MATERIAL SHALL BE PVC SCHEDULE 40. SLOPE COMBUSTION AIR PIPING DOWN TOWARDS WATER HEATER PER MANUFACTURER'S INSTALLATION MANUAL. ALL JOINTS AND SEAMS MUST BE SEALED GAS TIGHT. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.

A1 HVAC FLOOR PLAN - GROUND LEVEL 'B'

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

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SHEET TITLE

HVAC FLOOR PLAN - GROUND LEVEL 'B'

MH101B

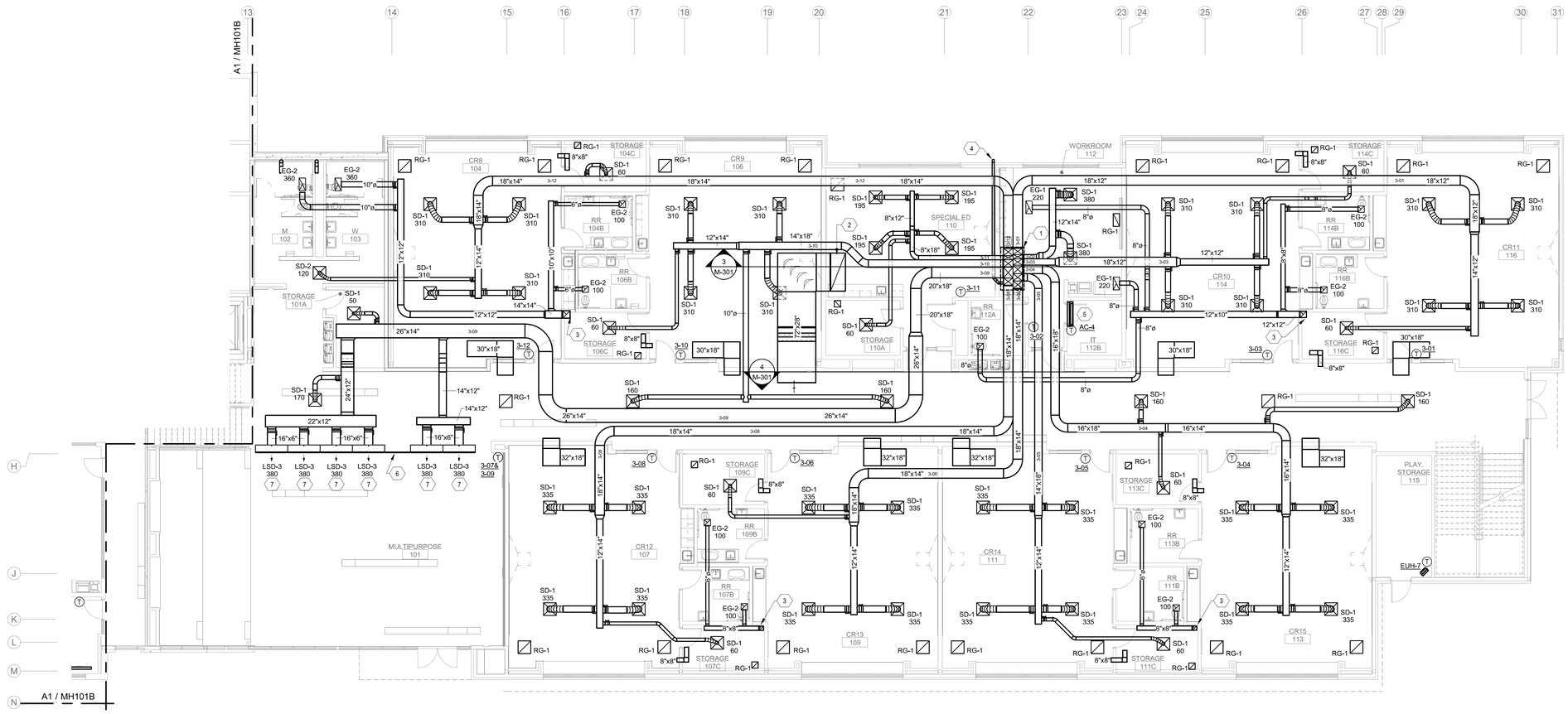
Bridgers & Paxton Project No: 8819 3/21/2024 2:47:36 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt
Farmington Preschool Academy

KEYNOTES

1. INDIVIDUAL SUPPLY DUCTS UP IN CHASE, THROUGH MECHANICAL ROOM FLOOR TO MULTI-ZONE UNIT CONNECTION. SEE DETAIL C5/M-501. REFER TO INDOOR VAV MULTI-ZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT- INDIVIDUAL ZONE SCHEDULE FOR CONNECTION SIZE.
2. RETURN DUCT, OF SIZE INDICATED, DOWN FROM MECHANICAL ROOM ABOVE. SEE DETAIL D5/M-501.
3. EXHAUST DUCT, OF SIZE INDICATED, UP THROUGH FLOOR TO LEVEL ABOVE.
4. 4" Ø RIGID DUCT DRYER VENT THROUGH EXTERIOR WALL. DO NOT ASSEMBLE WITH FASTENERS THAT EXTEND INTO DUCT. DO NOT INSTALL SCREEN IN OR OVER DRYER VENT. WRAP DRYER VENT IN WALL AND IN CEILING PLENUM WITH TYPE D-6 INSULATION. TERMINATE WITH MANUFACTURER APPROVED WALL CAP.
5. INDOOR AIR CONDITIONING UNIT MOUNTED ABOVE DOOR. COORDINATE LOCATION WITH ARCHITECT.
6. PROVIDE 4'-0" LINEAR SLOT DIFFUSER WITH (4) 1" SLOTS, PRICE SDS100. DIFFUSER SHALL BE INACTIVE. PROVIDE BLANK-OFF.
7. LINEAR SLOTS SHALL BE INSTALLED TO HAVE A CONTINUOUS LOOK.

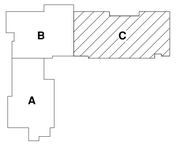
GENERAL NOTES

A. COORDINATE DUCT ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. PROVIDE 1" ACOUSTICAL LINING ON ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. SEE SPECIFICATION 23 0700 FOR INSULATION REQUIREMENTS.
C. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
D. SEE DETAIL E5/M-501 FOR LOW VELOCITY FITTING DETAILS.
E. SEE DETAILS D2/M-501 FOR DIFFUSER AND REGISTER CONNECTIONS. PROVIDE MANUAL BALANCING DAMPERS FOR EACH CONNECTION.
F. SEE DETAIL B1/M-501 FOR SIDEWALL LINEAR SLOT INSTALLATION.
G. MOUNT TEMPERATURE SENSORS PER SPECIFICATION.
H. THERMOSTATS LOCATED IN COMMON AREAS TO BE PROVIDED WITH METAL COVER AND LOCK.
I. PROVIDE SOUND TEE FOR ALL CEILING RETURN AIR GRILLES PER DETAIL A5/M-501.
J. INSTALL TRANSFER AIR DUCTS AND TRANSFER AIR OPENINGS ABOVE CEILING LEVEL. SIZE AS SHOWN ON PLANS. SEE DETAIL B4/M-501.
K. ALL EXPOSED DUCTWORK TO BE PAINTED PER ARCHITECTURAL SPECIFICATIONS.
L. USE TURNING VANES IN ALL RECTANGULAR TEES AND MITERED ELBOWS.
M. REFER TO SHEETS M-601 THROUGH M-603 FOR MECHANICAL DETAILS.



A1 HVAC FLOOR PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN
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ENGINEER

FARMINGTON PRESCHOOL ACADEMY
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CONSTRUCTION DOCUMENTS
MARCH 2024

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SHEET TITLE
HVAC FLOOR PLAN - LOWER LEVEL 'C'

MH101C

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:39 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt

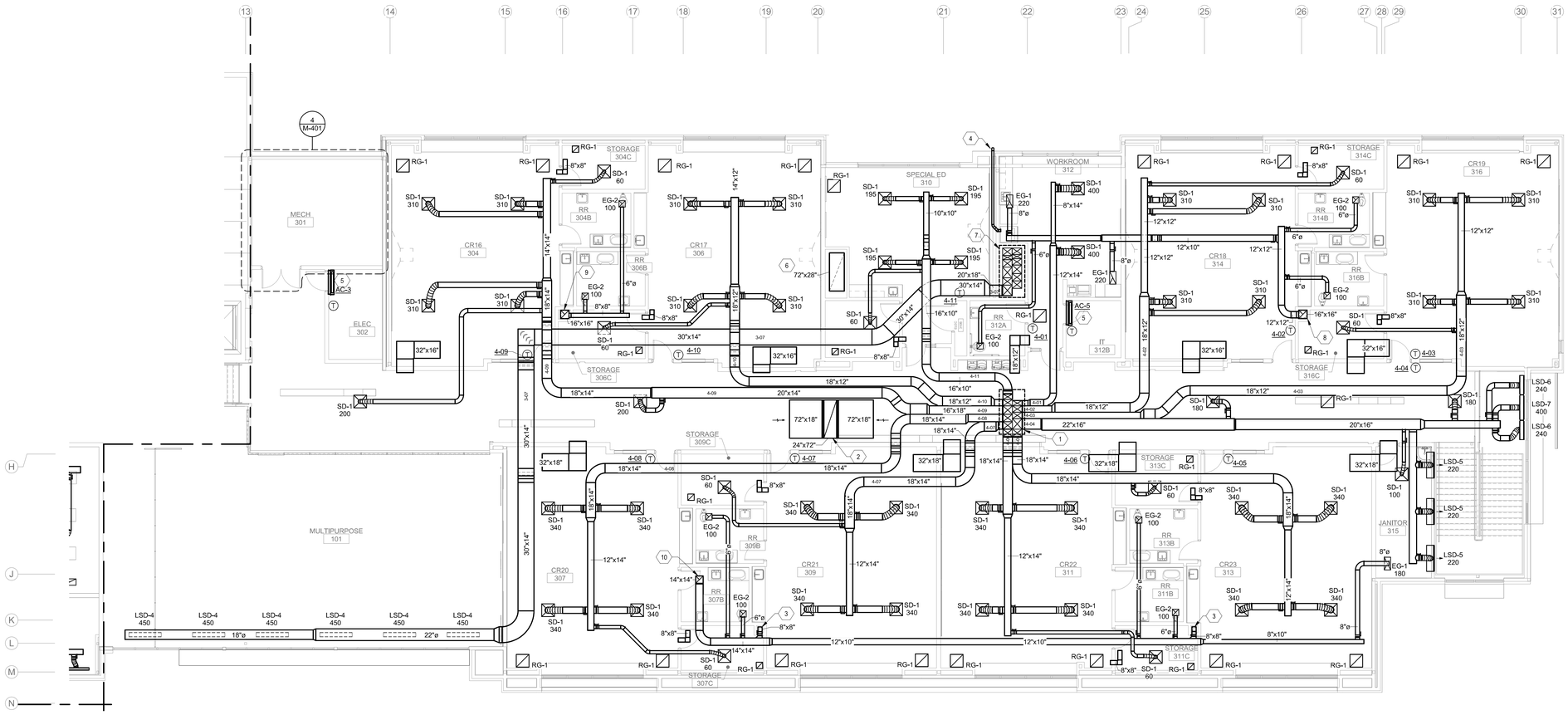
Farmington Preschool Academy

KEYNOTES

1. INDIVIDUAL SUPPLY DUCTS UP THROUGH MECHANICAL ROOM FLOOR TO MULTI-ZONE UNIT CONNECTION. SEE DETAIL C5/M-501. REFER TO INDOOR VAV MULTI-ZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT- INDIVIDUAL ZONE SCHEDULE FOR CONNECTION SIZE.
2. RETURN DUCT, OF SIZE INDICATED, DOWN FROM MECHANICAL ROOM ABOVE. SEE DETAIL D5/M-501.
3. EXHAUST DUCT, OF SIZE INDICATED, DWON IN CHASE, THROUGH FLOOR TO LEVEL BELOW.
4. 4" Ø RIGID DUCT DRYER VENT THROUGH EXTERIOR WALL. DO NOT ASSEMBLE WITH FASTENERS THAT EXTEND INTO DUCT. DO NOT INSTALL SCREEN IN OR OVER DRYER VENT. WRAP DRYER VENT IN WALL AND IN CEILING PLENUM WITH TYPE D-4 INSULATION. TERMINATE WITH MANUFACTURER APPROVED WALL CAP.
5. INDOOR AIR CONDITIONING UNIT MOUNTED ABOVE DOOR. COORDINATE LOCATION WITH ARCHITECT.
6. RETURN DUCT, OF SIZE INDICATED, DOWN FROM MECHANICAL ROOM ABOVE. SEE DETAIL D5/M-501. ROUTE DUCT DOWN IN CHASE TO LOWER LEVEL.
7. INDIVIDUAL SUPPLY DUCTS DOWN IN CHASE TO LEVEL BELOW. REFER TO INDOOR VAV MULTI-ZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT- INDIVIDUAL ZONE SCHEDULE FOR CONNECTION SIZE.
8. 16"X16" EXHAUST DUCT DOWN FROM ROOFTOP EXHAUST FAN. CONTINUE 12"X12" EXHAUST DUCT DOWN IN CHASE TO FIRST LEVEL.
9. 16"X16" EXHAUST DUCT DOWN FROM ROOFTOP EXHAUST FAN. CONTINUE 12"X12" EXHAUST DUCT DOWN IN CHASE TO FIRST LEVEL.
10. 14"X14" EXHAUST DUCT UP THROUGH ROOF TO ROOFTOP EXHAUST FAN.

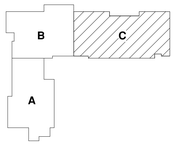
GENERAL NOTES

A. COORDINATE DUCT ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. PROVIDE 1" ACOUSTICAL LINING ON ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. SEE SPECIFICATION 23 0700 FOR INSULATION REQUIREMENTS.
C. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
D. SEE DETAIL E5/M-501 FOR LOW VELOCITY FITTING DETAILS.
E. SEE DETAILS D2/M-501 FOR DIFFUSER AND REGISTER CONNECTIONS. PROVIDE MANUAL BALANCING DAMPERS FOR EACH CONNECTION.
F. SEE DETAIL B1/M-501 FOR SIDEWALL LINEAR SLOT INSTALLATION.
G. MOUNT TEMPERATURE SENSORS PER SPECIFICATION.
H. THERMOSTATS LOCATED IN COMMON AREAS TO BE PROVIDED WITH METAL COVER AND LOCK.
I. PROVIDE SOUND TEE FOR ALL CEILING RETURN AIR GRILLES PER DETAIL A5/M-501.
J. INSTALL TRANSFER AIR DUCTS AND TRANSFER AIR OPENINGS ABOVE CEILING LEVEL. SIZE AS SHOWN ON PLANS. SEE DETAIL B4/M-501.
K. ALL EXPOSED DUCTWORK TO BE PAINTED PER ARCHITECTURAL SPECIFICATIONS.
L. USE TURNING VANES IN ALL RECTANGULAR TEES AND MITERED ELBOWS.
M. REFER TO SHEETS M-501 THROUGH M-503 FOR MECHANICAL DETAILS.



A1 HVAC FLOOR PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



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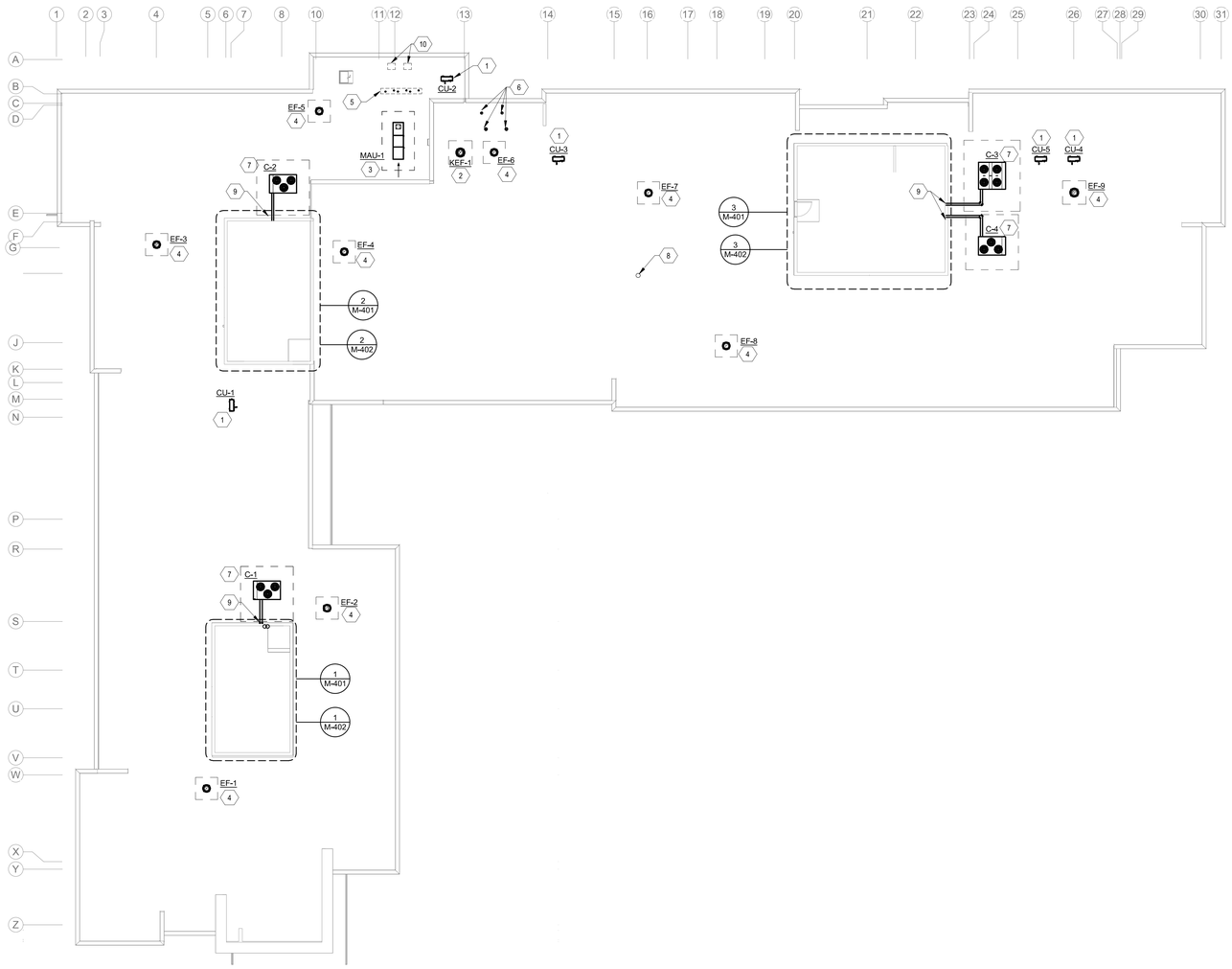
SHEET TITLE
HVAC FLOOR PLAN - UPPER LEVEL 'C'

MH102C

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:43 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdoughetty@bpce.com.rvt

Farmington Preschool Academy



A1 MECHANICAL OVERALL ROOF PLAN

1/16" = 1'-0"

0' 4' 8' 16'

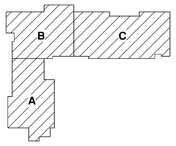
GENERAL NOTES

A. COORDINATE DUCT ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. REFER TO ARCHITECTURAL DETAILS FOR ALL ROOF PENETRATIONS.
C. REFER TO SHEETS M-501 THROUGH M-503 FOR MECHANICAL DETAILS.

KEYNOTES

1. CONDENSING UNIT INSTALLED ON ROOF SKID PER DETAIL D1/M-502 AND A4/M-502. ROUTE REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT. PROVIDE REFRIGERANT PIPING AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL.
2. KITCHEN EXHAUST FAN PER EQUIPMENT SCHEDULE. INSTALL ON 24" TALL ROOF CURB PER DETAIL A1/M-502.
3. MAKE-UP AIR UNIT PER EQUIPMENT SCHEDULE. INSTALL ON 24" TALL ROOF CURB PER DETAIL D5/M-503.
4. EXHAUST FAN PER EQUIPMENT SCHEDULE. INSTALL INSTALL ON 24" TALL ROOF CURB PER DETAIL A4/M-501.
5. 4"Ø WATER HEATER VENT AND COMBUSTION AIR PIPING. VENT PIPING MATERIAL SHALL BE STAINLESS STEEL DOUBLE-WALLED CATEGORY IV CONSTRUCTION. COMBUSTION AIR PIPING MATERIAL SHALL BE PVC SCHEDULE 40. SLOPE COMBUSTION AIR PIPING DOWN TOWARDS WATER HEATER PER MANUFACTURER'S INSTALLATION MANUAL. ALL JOINTS AND SEAMS MUST BE SEALED GAS TIGHT. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.
6. BOILER 8" POLYPROPYLENE CATEGORY IV VENT AND 8" GALVANIZED STEEL COMBUSTION AIR INTAKE. ALL JOINTS AND SEAMS MUST BE SEALED GAS TIGHT AND SHALL NOT BE COMMON VENTED. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL. SEE SPECIFICATION SECTION 233000 PART 2.3.
7. AIR COOLED CONDENSING UNIT PER EQUIPMENT SCHEDULE. INSTALL ON 24" TALL VIBRATION ISOLATION ROOF CURB PER DETAIL B5/M-503. CONTRACTOR SHALL SUBMIT REFRIGERANT PIPING LAYOUT, APPROVED BY MANUFACTURER, TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
8. SOAP STATION AT LOCATION SHOWN. SEE DETAIL D1/M-501.
9. REFRIGERANT PIPING THROUGH PENTHOUSE WALL. REFER TO SHEET M-402 FOR CONTINUATION.
10. COOLER/FREEZER CONDENSING UNIT FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING FROM ROOFTOP CONDENSING UNIT TO INDOOR COOLER/FREEZER EVAPORATOR COIL. INSTALL PIPING PER MANUFACTURER'S REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.

KEY PLAN



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CONSTRUCTION DOCUMENTS

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SHEET TITLE

MECHANICAL ROOF PLAN

MH130

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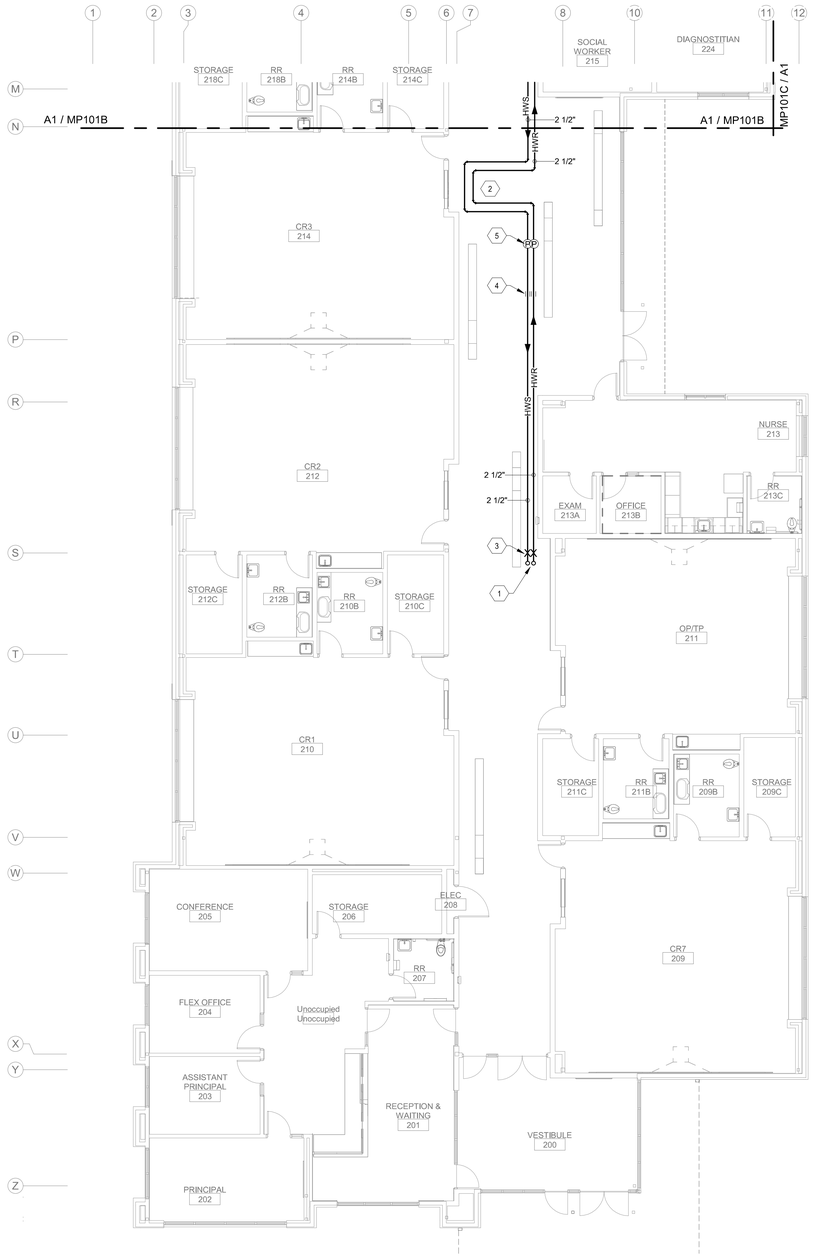


A1 MECHANICAL PIPING FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

0' 4' 8' 16'

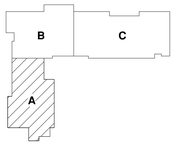
GENERAL NOTES

A. COORDINATE PIPE ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. SEE DETAIL C5/M-502 FOR PIPE PENETRATION DETAIL.
C. SEE DETAIL E5/M-502 FOR PIPE HANGING DETAIL.
D. VENT ALL HIGH POINTS IN PIPING SYSTEMS PER DETAIL C2/M-501.
E. PROVIDE DRAINS AT ALL LOW POINTS OF PIPING SYSTEMS PER DETAIL C1/M-502.
F. SEE SHEET M-501 THROUGH M-503 FOR MECHANICAL DETAILS

KEYNOTES

1. 2-1/2" HWS/HWR PIPING UP THROUGH FLOOR TO PENTHOUSE ABOVE.
2. 7'-0" X 3'-6" EXPANSION LOOP.
3. PIPE ANCHORS FOR EXPANSION. SEE DETAIL A5/M-503.
4. PIPE GUIDES.
5. PRESSURE DIFFERENTIAL SWITCH

KEY PLAN



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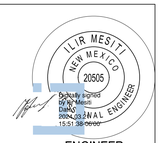

ENGINEER

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SHEET TITLE

MECHANICAL PIPING FLOOR PLAN - GROUND LEVEL 'A'

MP101A

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Farmington Preschool Academy

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D. VENT ALL HIGH POINTS IN PIPING SYSTEMS PER DETAIL C2/M-501.
E. PROVIDE DRAINS AT ALL LOW POINTS OF PIPING SYSTEMS PER DETAIL C1/M-502.
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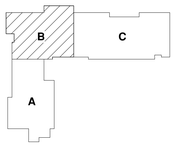
KEYNOTES

1. INDOOR AIR CONDITIONING UNIT MOUNTED ABOVE DOOR. COORDINATE LOCATION WITH ARCHITECT. PROVIDE REFRIGERANT PIPING AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL. ROUTE REFRIGERANT PIPING FROM INDOOR UNIT TO CONDENSING UNIT ON ROOF.
2. 2-1/2" HWS/HWR PIPING UP THROUGH FLOOR TO PENTHOUSE ABOVE.
3. PIPE ANCHORS FOR EXPANSION. SEE DETAIL A5/M-503.
4. PIPE GUIDES.

A1 MECHANICAL PIPING FLOOR PLAN - GROUND LEVEL 'B'
1/8" = 1'-0"

0' 4' 8' 16'



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MECHANICAL PIPING FLOOR PLAN - GROUND LEVEL 'B'

MP101B

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Farmington Preschool Academy

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2. 4" HWS/HWR PIPING UP THROUGH FLOOR TO PENTHOUSE ABOVE.
3. PROVIDE LIHNE-SIZE ISOLATION VALVES.

GENERAL NOTES

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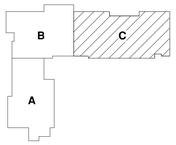

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FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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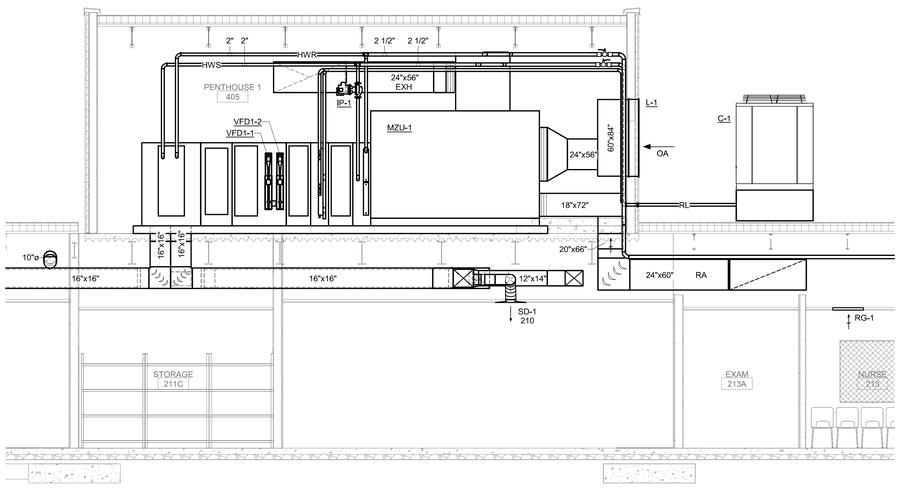
CHECKED BY:	IM

SHEET TITLE
MECHANICAL PIPING FLOOR PLAN - UPPER LEVEL 'C'

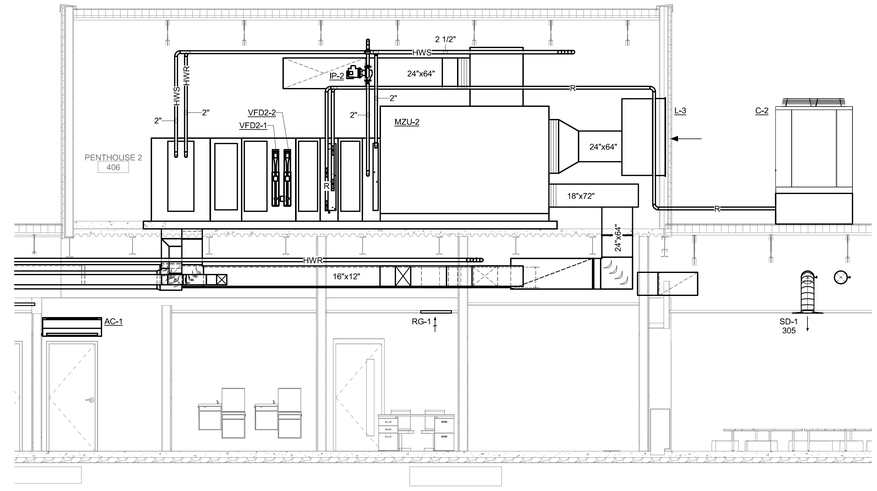
MP102C

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:48 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt
Farmington Preschool Academy



1 MECHANICAL SECTION- 405 PENTHOUSE 1

SCALE: 1/4" = 1'-0"



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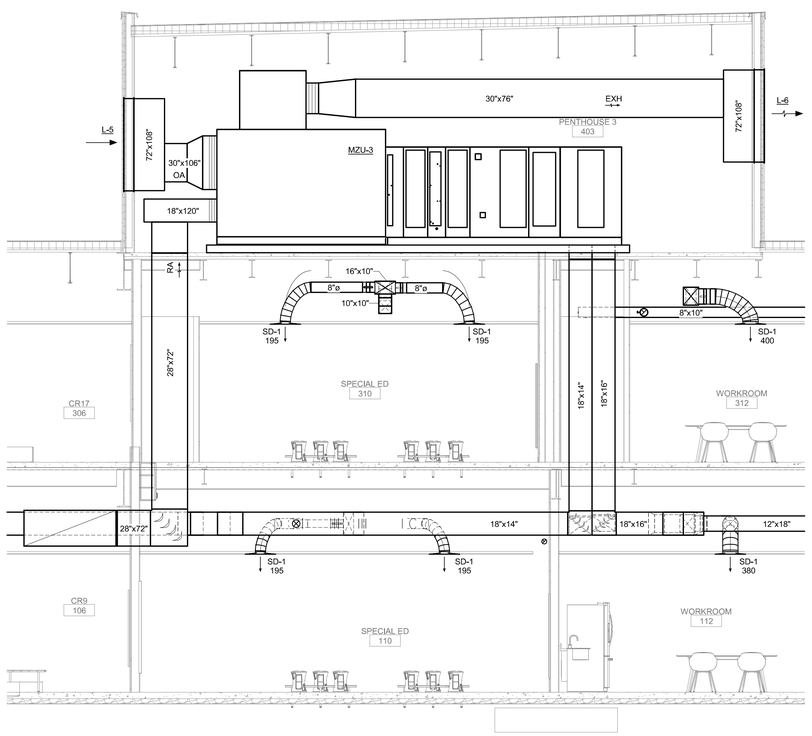

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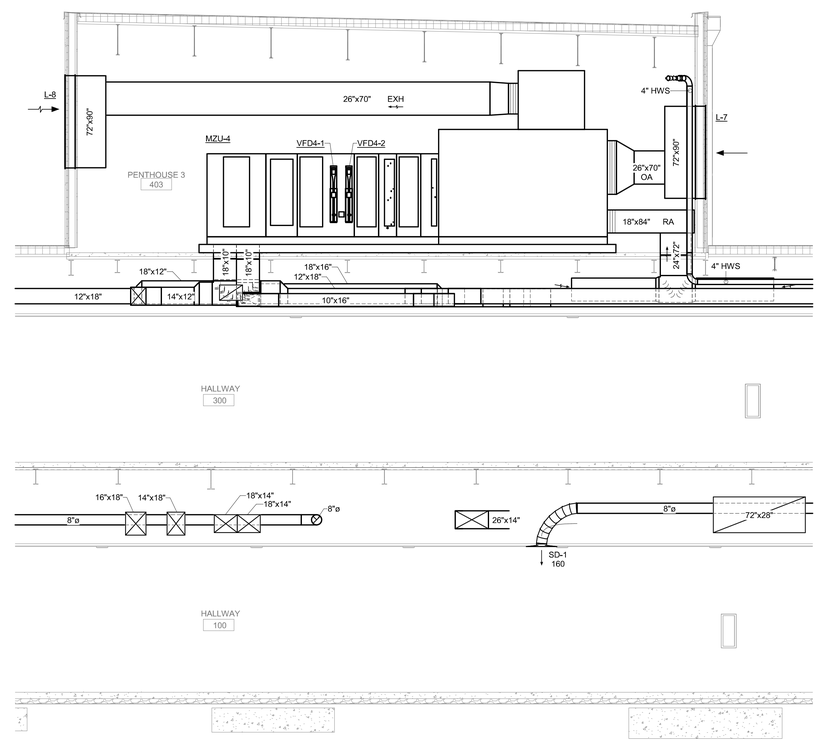

4 MECHANICAL SECTION - 403 PENTHOUSE 3 - MZU-4

SCALE: 1/4" = 1'-0"

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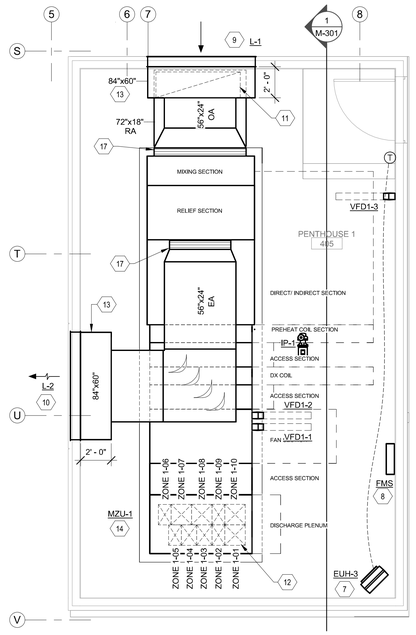
SHEET TITLE

MECHANICAL SECTIONS

M-301

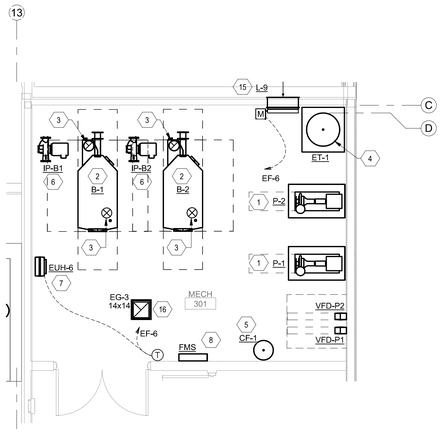
Bridgers & Paxton Project No: 8819 3/21/2024 2:57:12 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt

Farmington Preschool Academy



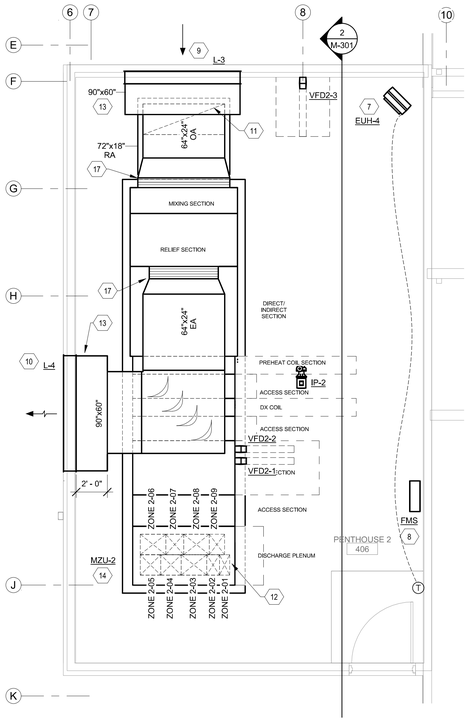
1 ENLARGED 405 PENTHOUSE 1

SCALE: 1/4" = 1'-0"



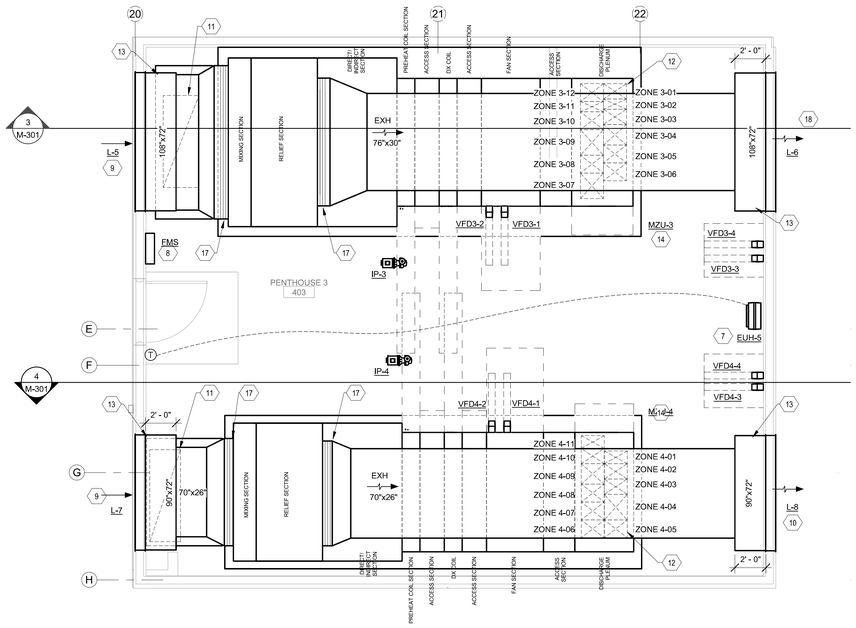
4 ENLARGED 301 MECHANICAL ROOM

SCALE: 1/4" = 1'-0"



2 ENLARGED 406 PENTHOUSE 2

SCALE: 1/4" = 1'-0"



3 ENLARGED 403 PENTHOUSE 3

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. COORDINATE DUCT ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. PROVIDE 1" ACOUSTICAL LINING ON ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. SEE SPECIFICATION 23 0700 FOR INSULATION REQUIREMENTS.
C. SEE DETAIL E5/M-501 FOR LOW VELOCITY FITTING DETAILS.
D. MOUNT TEMPERATURE SENSORS PER SPECIFICATION.
E. THERMOSTATS LOCATED IN COMMON AREAS TO BE PROVIDED WITH METAL COVER AND LOCK.
F. USE TURNING VANES IN ALL RECTANGULAR TEES AND MITERED ELBOWS.
G. REFER TO SHEETS M-501 THROUGH M-503 FOR MECHANICAL DETAILS.

KEYNOTES

1. BASE MOUNTED PUMP PER EQUIPMENT SCHEDULE. MOUNT ON 6" HOUSEKEEPING PAD. INSTALL PER DETAIL C2/M-502.
2. BOILER PER EQUIPMENT SCHEDULE. MOUNT ON 6" HOUSEKEEPING PAD.
3. BOILER 8" POLYPROPYLENE CATEGORY IV VENT AND 8" GALVANIZED STEEL COMBUSTION AIR INTAKE. ALL JOINTS AND SEAMS MUST BE SEALED GAS TIGHT AND SHALL NOT BE COMMON VENTED. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL. SEE SPECIFICATION SECTION 233000 PART 2.3.
4. EXPANSION TANK PER EQUIPMENT SCHEDULE. MOUNT ON 6" HOUSEKEEPING PAD.
5. CHEMICAL FEEDER PER EQUIPMENT SCHEDULE. INSTALL PER DETAIL C1/M-501.
6. IN-LINE PUMP PER EQUIPMENT SCHEDULE. INSTALL PER DETAIL A2/M-501.
7. ELECTRIC UNIT HEATER PER EQUIPMENT SCHEDULE. MOUNT UNIT AS HIGH AS POSSIBLE. MAINTAINING ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.
8. FACILITY MANAGEMENT CONTROL PANEL. COORDINATE LOCATION WITH OWNER.
9. FRESH AIR INTAKE LOUVER. REFER TO EQUIPMENT SCHEDULE FOR SIZE. INSTALL BOTTOM OF LOUVER APPROXIMATELY 6'-0" ABOVE FINISH ROOF.
10. EXHAUST AIR RELIEF LOUVER. REFER TO EQUIPMENT SCHEDULE FOR SIZE. INSTALL BOTTOM OF LOUVER APPROXIMATELY 6'-0" ABOVE FINISH ROOF.
11. RETURN DUCT DOWN THROUGH MECHANICAL ROOM FLOOR. SEE DETAIL D5/M-501.
12. MULTIZONE SUPPLY DUCTS THROUGH PENTHOUSE FLOOR OPENING. REFER TO DETAIL C5/M-501. REFER TO "INDOOR VAV MULTI-ZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT- INDIVIDUAL ZONE SCHEDULE" FOR CONNECTION SIZE.
13. DOUBLE WALL INSULATED PLENUM. SIZE PER PLAN. REFER TO DETAIL D4/M-501.
14. MULTIZONE AIR HANDLING UNIT PER EQUIPMENT SCHEDULE. INSTALL ON 6" THICK CONCRETE PAD.
15. INTAKE AIR LOUVER MOUNTED 24" A.F.F. PROVIDE 120V MOTORIZED DAMPER INTERLOCKED WITH EF-6.
16. 12"X12" EXHAUST DUCT DOWN FROM ROOFTOP EXHAUST FAN. EXTEND 12" BELOW ROOF DECK. TERMINATE WITH EG-3.
17. PROVIDE TRANSITION NECESSARY TO CONNECT TO UNIT. PROVIDE FLEX CONNECTION AT UNIT.
18. EXHAUST AIR RELIEF LOUVER. REFER TO EQUIPMENT SCHEDULE FOR SIZE. INSTALL BOTTOM OF LOUVER APPROXIMATELY 5'-0" ABOVE FINISH ROOF.

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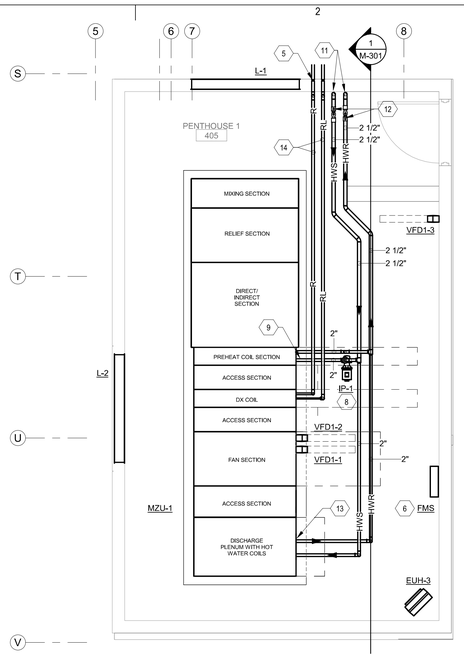
SHEET TITLE

ENLARGED MECHANICAL PLANS-HVAC

M-401

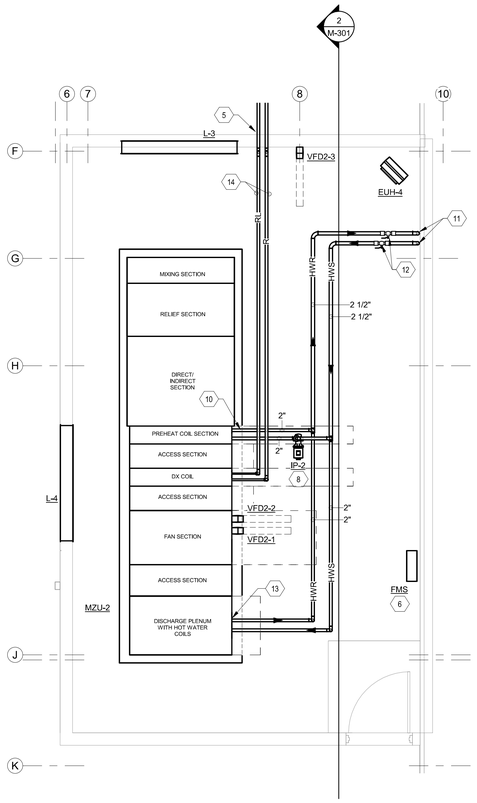
Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:54 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt



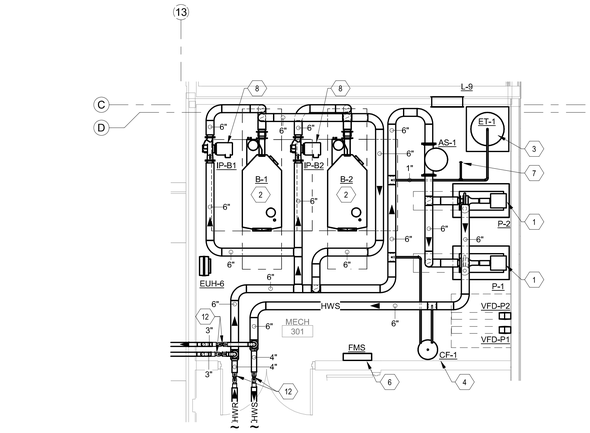
1 ENLARGED PENTHOUSE "A"- HVAC PIPING

SCALE: 1/4" = 1'-0"



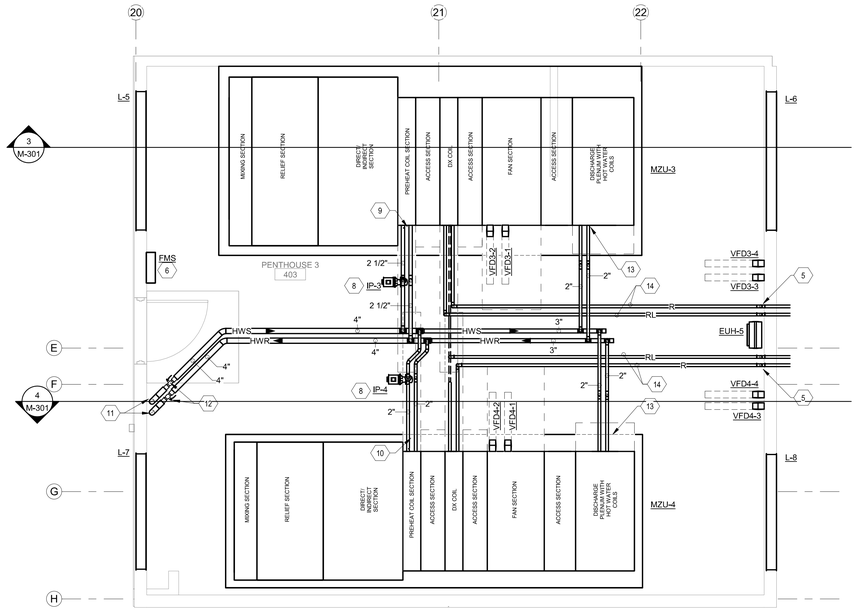
2 ENLARGED PENTHOUSE "B"- HVAC PIPING

SCALE: 1/4" = 1'-0"



4 ENLARGED MECHANICAL ROOM- HVAC PIPING

SCALE: 1/4" = 1'-0"



3 ENLARGED PENTHOUSE "C"- HVAC PIPING

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. COORDINATE PIPE ROUTING AND EQUIPMENT INSTALLATION WITH STRUCTURAL PLANS, ARCHITECTURAL PLANS AND ELECTRICAL PLANS. GIVE SPECIAL ATTENTION TO STRUCTURAL BEAM ELEVATIONS, CEILING HEIGHTS, CABLE TRAYS, AND ROOF DRAIN LEADERS. SUBMIT 3D COORDINATION DRAWINGS FOR REVIEW PER SPECIFICATIONS 23 0500.
B. SEE DETAIL C5/M-502 FOR PIPE PENETRATION DETAIL.
C. SEE DETAIL E5/M-502 FOR PIPE HANGING DETAIL.
D. VENT ALL HIGH POINTS IN PIPING SYSTEMS PER DETAIL C2/M-501.
E. PROVIDE DRAINS AT ALL LOW POINTS OF PIPING SYSTEMS PER DETAIL C1/M-502.
F. SEE SHEET M-501 THROUGH M-503 FOR MECHANICAL DETAILS

KEYNOTES

1. BASE MOUNTED PUMP PER EQUIPMENT SCHEDULE. MOUNT ON 6" HOUSEKEEPING PAD. INSTALL PER DETAIL C2/M-502.
2. BOILER PER EQUIPMENT SCHEDULE. MOUNT ON 6" HOUSEKEEPING PAD.
3. EXPANSION TANK PER EQUIPMENT SCHEDULE. MOUNT ON 6" HOUSEKEEPING PAD.
4. CHEMICAL FEEDER PER EQUIPMENT SCHEDULE. INSTALL PER DETAIL C1/M-501.
5. REFRIGERANT PIPING THROUGH PENTHOUSE WALL. REFER TO SHEET MH130 FOR CONTINUATION. REFER TO CONDENSER UNIT SCHEDULE FOR PIPE SIZES. CONTRACTOR SHALL SUBMIT REFRIGERANT PIPING LAYOUT, APPROVED BY MANUFACTURER, TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
6. FACILITY MANAGEMENT CONTROL PANEL. COORDINATE LOCATION WITH OWNER.
7. MAKE-UP WATER CONNECTION. REFER TO PLUMBING DRAWINGS AND DETAIL B2/M-501.
8. IN-LINE PUMP PER EQUIPMENT SCHEDULE. INSTALL PER DETAIL A2/M-501.
9. CONNECT PIPING TO AIR HANDLER HEATING COIL PER DETAIL D2/M-502.
10. CONNECT PIPING TO AIR HANDLER HEATING COIL PER DETAIL D4/M-502.
11. HWS/HWR PIPING THROUGH PENTHOUSE FLOOR.
12. PROVIDE LINE-SIZE ISOLATION VALVES.
13. PIPING TO INDIVIDUAL MULTIZONE VAV REHEAT COILS. REFER TO DETAIL A5/M-502.
14. ROUTE REFRIGERANT PIPING HIGH AND TIGHT TO STRUCTURE. CONTRACTOR SHALL SUBMIT REFRIGERANT PIPING LAYOUT, APPROVED BY MANUFACTURER, TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

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ENLARGED MECHANICAL PLANS- HVAC PIPING

M-402

Farmington Preschool Academy

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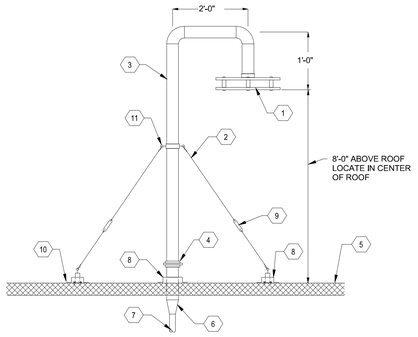
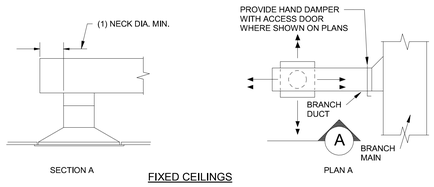
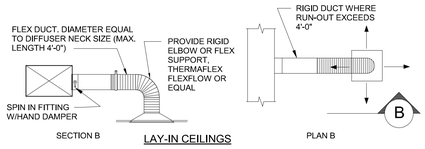


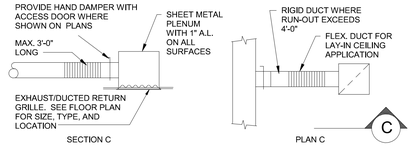
KEYNOTES

1. STATIC OUTSIDE AIR PROBE AIR MONITOR S.O.A.P.-1 OR EQUIVALENT
2. GUIDE WIRES (MIN 4)
3. 2" PIPE
4. UNION FOR S.O.A.P. STATION REMOVAL
5. BUILT-UP ROOF
6. 2-1/2"x1/2" REDUCER
7. 1/2" PIPE CONNECTED TO THE BUILDING STATIC PRESSURE REFERENCE PORTS, SEE CONTROLS.
8. SEE ARCH. DRAWINGS FOR PIPE PENETRATION DETAILS
9. TURN BUCKLES (TYPICAL)
10. 1" STEEL PIPE WELDED TO PLATE, BOLTED TO ROOF DECK
11. EYELET (TYPICAL)

D1 S.O.A.P. DETAIL
SCALE = NONE



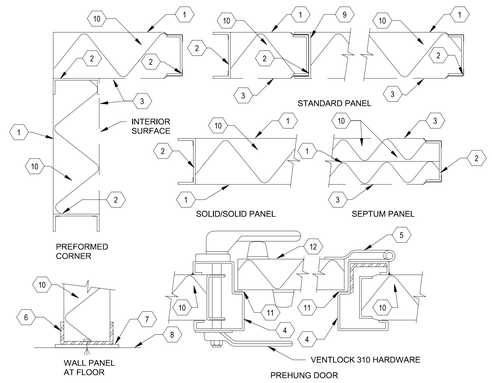




RETURN/EXHAUST REGISTER FOR LAY-IN AND FIXED CEILINGS

NOTE:
PROVIDE BALANCING DAMPER IN SUPPLY AND EXHAUST DUCTS REGARDLESS WHETHER SHOWN ON DRAWINGS

D2 DIFFUSER AND REGISTER CONNECTION DETAIL
SCALE = NONE

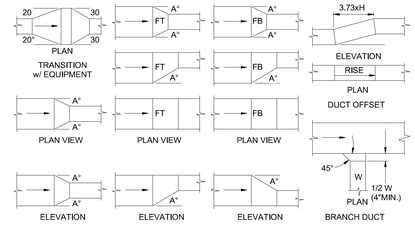


KEYNOTES

1. 18 GAUGE GALVANIZED SHEET METAL (MIN. GA.)
2. 16 GAUGE GALVANIZED SHEET METAL REINFORCING (MIN. GA.)
3. 22 GAUGE GALVANIZED PERFORATED SHEET METAL (MIN. GA.)
4. 16 GAUGE ALL WELDED FRAME (MIN. GA.)
5. 20 GAUGE GALVANIZED OFFSET HINGE.
6. CHANNEL ANCHORED SECURELY TO FINISH FLOOR.
7. GASKET MATERIAL FOR TIGHT SEAL, PER MFR. RECOMMENDATIONS.
8. FINISH FLOOR.
9. SEALING BEAD AT ALL LAP JOINTS FOR AIR TIGHT SEAL, (TYP.).
10. INSULATED PANELS, THICKNESS AS NOTED ON DRAWINGS.
11. GASKET, CONTINUOUS AROUND DOOR PERIMETER.
12. 20 GAUGE GALVANIZED SHEET METAL (MIN. GA.).

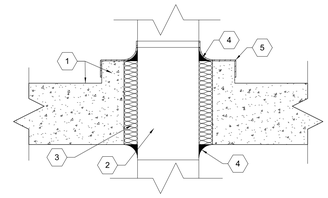
GENERAL NOTES:
- SEPTUM PANELS SHALL BE INSTALLED AT INTERIOR PARTITIONS, AROUND COILS, AIR WASHERS, FILTERS, FAN DISCHARGE (INTERIOR) PLENUM PARTY WALLS.
- PIPING AND DUCT PENETRATIONS THRU WALLS AND CEILINGS OF PLENUM SHALL BE SEALED AIRTIGHT. FOLLOW MFR'S RECOMMENDATIONS.
- PANELS SHALL BE MFR'D BY SEMCO OR EQUIVALENT, UNITS HAVING CERTIFIED TEST DATA ON SOUND & THERMAL TRANSMISSION.
- ALL ACCESS DOORS SHALL BE 24" x 60" MIN. SIZE, UNLESS OTHERWISE NOTED

D4 DOUBLE WALL PLENUM DETAIL
SCALE = NONE



NOTES
- ANGLE A=30 MAXIMUM WHEN AIR FLOWS IN DIRECTION OF ARROWS. (SUPPLY AIR)
- ANGLE A=15 WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROWS (R.A. OR EXHAUST)

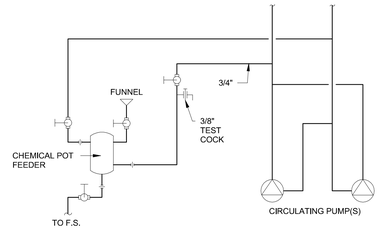
E5 LOW PRESSURE DUCT FITTING DETAIL
SCALE = NONE



KEYNOTES

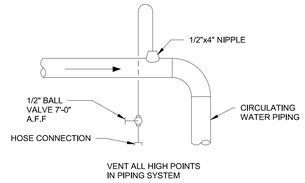
1. CONCRETE PENTHOUSE FLOOR AND 4" CONCRETE CURB AROUND DUCT PENETRATION.
2. DUCT - POSITIONED SUCH THAT THERE IS NO PHYSICAL CONTACT BETWEEN THE DUCT AND THE FLOOR. ENSURE GAP OF 1/2" TO 5/8" ON ALL SIDES.
3. FIBERGLASS OR MINERAL WOOL TYPE INSULATION.
4. NON-HARDENING RESILIENT CAULK - CONTINUOUS.
5. MASS LOADED VINYL SIMILAR TO KINETICS KNM 100RB WITH A SURFACE DENSITY OF NO LESS THAN 1.0 LB/SQ-FT. ADHERE TO THE DUCT AND ADJACENT CONCRETE WITH AN ADHESIVE RECOMMENDED BY THE VINYL MANUFACTURER.

D5 PENTHOUSE FLOOR DUCT PENETRATION DETAIL
SCALE = NONE

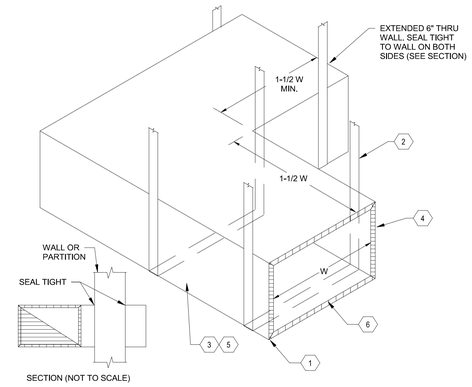


NOTE:
- INSTALL TOP OF CHEMICAL POT FEEDER NOT MORE THAN 3'-0" ABOVE FLOOR.
- MOUNT FEEDER(S) ON STEEL SUPPORT BRACKET ADJACENT TO PUMP(S).
- REFER TO PIPING SCHEMATIC FOR EQUIPMENT NUMBER.

C1 CHEMICAL POT FEEDER DETAIL
SCALE = NONE



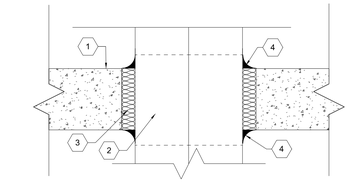
C2 MANUAL AIR VENT DETAIL
SCALE = NONE



KEYNOTES

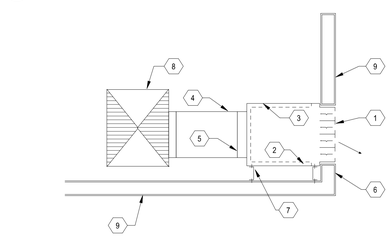
1. COORDINATE SOUND ELBOW INSTALLATION WITH STRUCTURE, LIGHTS, AND OTHER OBSTRUCTIONS
2. SUPPORT FROM STRUCTURE SIMILAR TO DUCTWORK
3. CONSTRUCT SOUND ELBOW OF 1" THICK RIGID ACOUSTIC INSULATION OR AS SHOWN ON DRAWINGS
4. FURNISH AND INSTALL SOUND ELBOWS AS SHOWN ON DRAWINGS
5. WHEN FIRE DAMPER OR SMOKE DAMPER IS NEEDED AT THE WALL, INSTALL SOUND ELBOW ATTACHED AND SEALED TO WALL.
6. SEAL ALL EXPOSED FIBERGLASS/DUCT BOARD ENDS WITH DUCT LINER EDGE SEALER

B4 SOUND ELBOW DETAIL FOR TRANSFER OPENINGS
SCALE = NONE



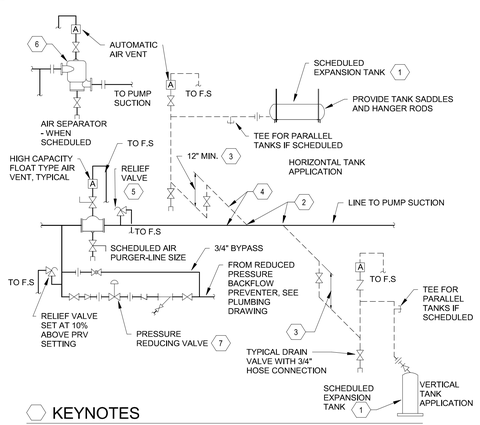
1. CONCRETE PENTHOUSE FLOOR
2. DUCTS POSITIONED SUCH THAT THERE IS NO PHYSICAL CONTACT BETWEEN THE DUCTS AND THE FLOOR. ENSURE GAP OF 1/2" TO 5/8" ON ALL SIDES.
3. FIBERGLASS OR MINERAL WOOL TYPE INSULATION.
4. NON-HARDENING RESILIENT CAULK - CONTINUOUS.

C5 PENTHOUSE FLOOR MULTI-ZONE SUPPLY DUCT PENETRATION DETAIL
SCALE = NONE



1. SLOT DIFFUSER, SEE PLANS FOR NUMBER OF SLOTS AND LENGTH
2. INTERNAL INSULATION
3. FACTORY PLENUM. FIELD CUT SUPPLY OPENING ON BACK. SEAL TOP CONNECTION.
4. BRANCH RUNOUT, SEE PLANS FOR SIZE
5. SUPPLY INLET. FIELD CUT. REFER TO PLANS FOR SIZE.
6. SOFFIT, SEE ARCH. DWGS. FOR CONSTRUCTION
7. PLENUM SUPPORT MOUNTED PLENUM AND ARCH. FRAMING
8. SUPPLY DUCT, SEE PLANS FOR SIZE
9. ARCHITECTURAL ENCLOSURE, SEE ARCH DWGS.

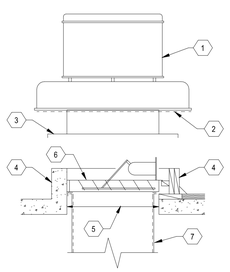
B1 SIDEWALL LINEAR DIFFUSER DETAIL
SCALE = NONE



KEYNOTES

1. PROVIDE ONLY THE DASHED PIPING FOR TYPE OF TANK SCHEDULED
2. CONNECT TO SIDE OF MAIN TO PREVENT AIR OF DEBRIS FROM ENTERING PIPE TO TANK. TOP OR BOTTOM CONNECTION NOT PERMITTED.
3. PROVIDE 1.2" MINIMUM DROP ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK. (HEATING SYS. ONLY)
4. SEE PIPING SCHEMATIC FOR LINE SIZES.
5. RELIEF VALVE FOR CHILLED WATER SYSTEM IS SHOWN. OMIT WHEN RELIEF VALVE IS SHOWN ON CONVERTOR OR BOILER DETAIL.
6. PROVIDE STRAINER IN AIR SEPARATOR WHEN INDICATED ON EQUIPMENT SCHEDULE.
7. SET PRESSURE REDUCING VALVE SO PRESSURE AT HIGH POINT IN SYSTEM HAS A MINIMUM OF 4 PSIG.

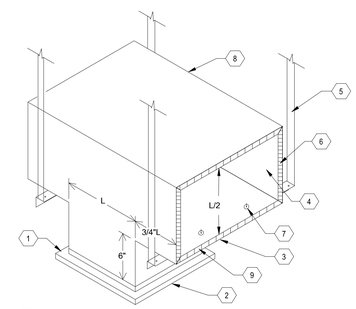
B2 AIR CONTROL AND MAKE-UP WATER DETAIL
SCALE = NONE



KEYNOTES

1. POWER ROOF EXHAUSTER
2. BIRDSCREEN
3. INTEGRAL CURB CAP SECURE AND CAULK TO CURB
4. 24" TALL FACTORY CURB SECURELY ANCHORED TO ROOF OR AS SHOWN ON ARCHITECTURAL DRAWINGS. FLASH AND COUNTERFLASH
5. ROOF OPENING - MIN. 1" LARGER THAN DUCT SIZE AS SHOWN ON PLANS
6. MOTORIZED DAMPER AS CALLED FOR ON EQUIPMENT SCHEDULE
7. ACOUSTICALLY LINED DUCT UNLESS EXHAUSTING MOIST AIR

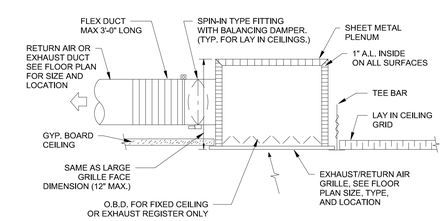
A4 POWER ROOF EXHAUSTER DETAIL
SCALE = NONE



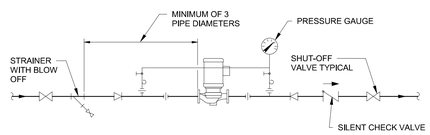
KEYNOTES

1. SECURE SOUND TEE TO RETURN GRILLE
2. RETURN AIR GRILLE IN CEILING. SEE PLANS AND SCHEDULE FOR SIZE AND TYPE.
3. COORDINATE SOUND TEE INSTALLATION WITH STRUCTURE, LIGHTS, AND OTHER OBSTRUCTIONS.
4. MAINTAIN SAME FREE AREA AS GRILLE. (MINIMUM)
5. SUPPORT FROM STRUCTURE SIMILAR TO DUCTWORK.
6. CONSTRUCT SOUND TEE OF 1" THICK RIGID ACOUSTIC INSULATION.
7. PINS THRU DUCT BOARD.
8. FURNISH AND INSTALL SOUND TEE FOR EACH RETURN GRILLE UNLESS NOTED OTHERWISE ON DRAWINGS.
9. SEAL ALL EXPOSED FIBERGLASS/DUCT BOARD ENDS WITH DUCT LINER EDGE SEALER

A5 RETURN AIR SOUND TEE DETAIL
SCALE = NONE



A1 RETURN AIR AND EXHAUST REGISTER DETAIL
SCALE = NONE



A2 IN-LINE PUMP DETAIL
SCALE = NONE

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ENGINEER

FARMINGTON PRESCHOOL ACADEMY
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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

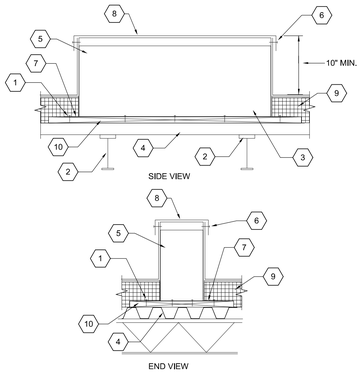
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	LMD
CHECKED BY:	IM

SHEET TITLE
MECHANICAL DETAILS

M-501

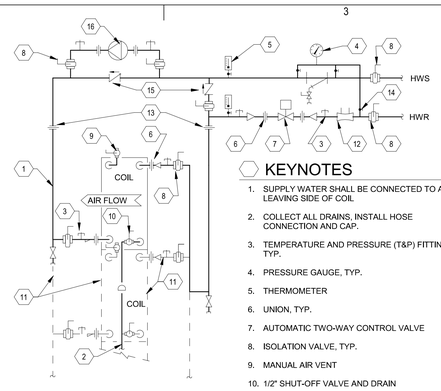
Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:57 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt



1. SECURELY ANCHOR SKID TO BLOCKING AND DECK.
2. SKID SHALL SPAN TWO JOISTS MIN.
3. INSTALL SKIDS PERPENDICULAR TO ROOF STRUCTURE.
4. ROOF. SEE ARCHITECTURAL DWGS.
5. THYBAR TEMS-3 OR EQUAL. SKID SHALL EXTEND A MINIMUM OF 10" ABOVE INSULATION.
6. FASTENERS AT 12" O.C.
7. BASE FLASHING
8. 18 GAUGE GALVANIZED SHEET METAL CAP
9. ROOF INSULATION. SEE ARCH. DWGS.
10. BLOCKING TO PROVIDE FLAT (SUPPORTED) SURFACE ON TOP OF ROOF DECK CHANNELS.ANCHOR SECURELY TO ROOF DECK.
11. SET SKIDS TO BE LEVEL WHEN INSTALLED ON SLOPING ROOF.

D1 ROOF SKID DETAIL
SCALE = NONE



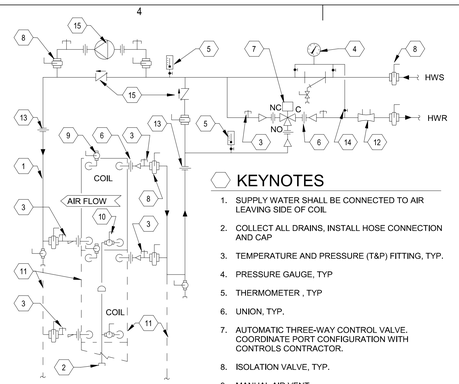
NOTES

- PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN SYSTEM. SEE MANUAL AIR VENT DETAIL
- SEE PLANS AND/OR PIPING SCHEMATIC FOR PIPE SIZES.
- T&P FITTINGS INSTALLED IN PIPING 2" AND SMALLER SHALL BE INSTALLED IN ELBOW OR IN THE BRANCH SIDE OF A 2" TEE.
- DRAIN VALVE AT ALL LOW POINTS OF PIPING. SEE DRAIN VALVE DETAIL

KEYNOTES

1. SUPPLY WATER SHALL BE CONNECTED TO AIR LEAVING SIDE OF COIL
2. COLLECT ALL DRAINS, INSTALL HOSE CONNECTION AND CAP.
3. TEMPERATURE AND PRESSURE (T&P) FITTING, TYP.
4. PRESSURE GAUGE, TYP.
5. THERMOMETER
6. UNION, TYP.
7. AUTOMATIC TWO-WAY CONTROL VALVE
8. ISOLATION VALVE, TYP.
9. MANUAL AIR VENT
10. 1/2" SHUT-OFF VALVE AND DRAIN
11. DASHED PIPING AND COILS INDICATE TYPICAL PIPING REQUIREMENTS FOR MULTIPLE COILS
12. FLOW BALANCE VALVE. SEE SPECIFICATIONS. NOT REQUIRED IF PRESSURE-INDEPENDENT CONTROL VALVE IS SPECIFIED.
13. UNION OR FLANGE. INSTALL SO AS TO ALLOW REMOVAL OF COIL WITHOUT MAJOR REMOVAL OF PIPING.
14. GAUGE COCK, TYP.
15. CHECK VALVE
16. IN-LINE PUMP FOR FREEZE PROTECTION. SEE EQUIPMENT SCHEDULE FOR SIZE AND CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

D2 HOT WATER COIL PIPING SCHEMATIC (2-WAY)
SCALE = NONE



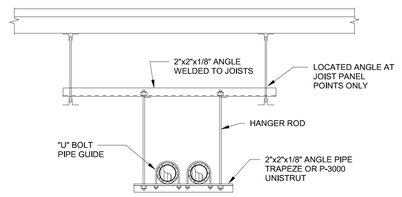
NOTE:

- PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN SYSTEM. SEE MANUAL AIR VENT DETAIL
- SEE PLANS AND/OR PIPING SCHEMATIC FOR PIPE SIZES.
- T&P FITTINGS INSTALLED IN PIPING 2" AND SMALLER SHALL BE INSTALLED IN ELBOW OR IN THE BRANCH SIDE OF A 2" TEE.
- DRAIN VALVE AT ALL LOW POINTS OF PIPING. SEE DRAIN VALVE DETAIL

KEYNOTES

1. SUPPLY WATER SHALL BE CONNECTED TO AIR LEAVING SIDE OF COIL
2. COLLECT ALL DRAINS, INSTALL HOSE CONNECTION AND CAP
3. TEMPERATURE AND PRESSURE (T&P) FITTING, TYP.
4. PRESSURE GAUGE, TYP
5. THERMOMETER , TYP
6. UNION, TYP.
7. AUTOMATIC THREE-WAY CONTROL VALVE. COORDINATE PORT CONFIGURATION WITH CONTROLS CONTRACTOR.
8. ISOLATION VALVE, TYP.
9. MANUAL AIR VENT
10. 1/2" SHUT-OFF VALVE AND DRAIN
11. DASHED PIPING AND COILS INDICATE TYPICAL PIPING REQUIREMENTS FOR MULTIPLE COILS
12. FLOW BALANCE VALVE, SEE SPECIFICATIONS.
13. UNION OR FLANGE. INSTALL SO AS TO ALLOW REMOVAL OF COIL WITHOUT MAJOR REMOVAL OF PIPING.
14. GAUGE COCK, TYP.
15. IN-LINE PUMP FOR FREEZE PROTECTION. SEE EQUIPMENT SCHEDULE FOR SIZE AND CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

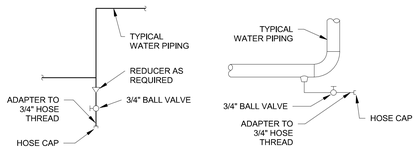
D4 HOT WATER COIL PIPING SCHEMATIC (3-WAY)
SCALE = NONE



NOTES:

- "U" BOLTS SHALL BE USED AS GUIDES ONLY, NOT ANCHORS.
- "U" BOLTS SHALL BE ON EVERY THIRD TRAPEZE (MIN.)
- DO NOT TIGHTEN "U" BOLTS ON PIPING OR INSULATION, LEAVE LOOSE AS PIPE GUIDE.
- PROVIDE SHEET METAL SLEEVE AROUND PIPE INSULATION AT ALL PIPE HANGERS. SEE SPECS. FOR INSULATION

E5 PIPE HANGER DETAIL
SCALE = NONE

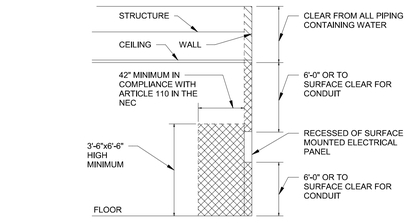


ELEVATION THREADED PIPE | **ELEVATION WELDED PIPE**

NOTES:

- DRAIN ALL LOW POINTS OF PIPING
- DRAIN ALL SCALE POCKETS AS SHOWN ON PLANS AND/OR PIPING DIAGRAMS

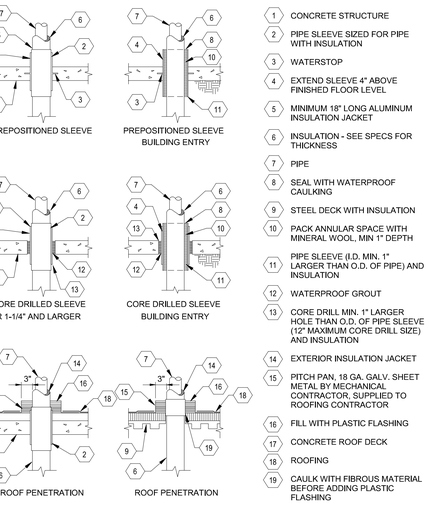
C1 DRAIN VALVE DETAIL
SCALE = NONE



EXCLUSIVELY DEDICATED ELECTRICAL SPACE. NO PIPING OR DUCT SHALL BE ALLOWED WITHIN THESE AREAS

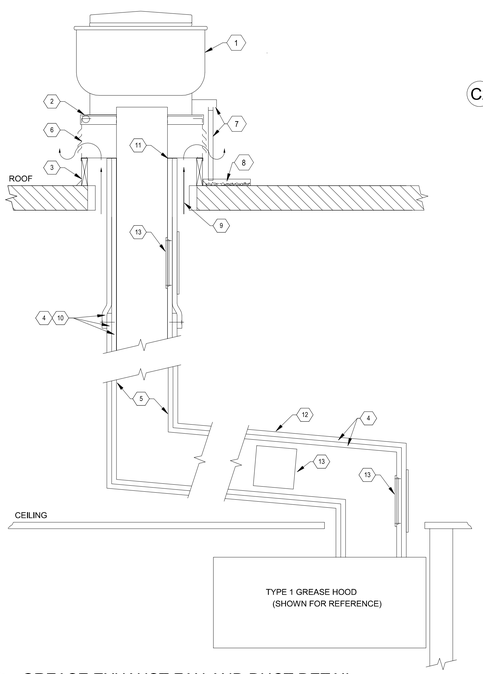
ELECTRICAL SPACE. NO WATER PIPING SHALL BE ALLOWED WITHIN THESE AREAS

C4 CLEARANCE REQUIREMENTS AT ELECTRICAL PANELS
SCALE = NONE



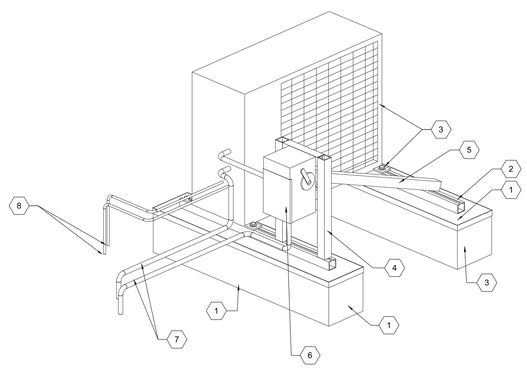
1. CONCRETE STRUCTURE
2. PIPE SLEEVE SIZED FOR PIPE WITH INSULATION
3. WATERSTOP
4. EXTEND SLEEVE 4" ABOVE FINISHED FLOOR LEVEL
5. MINIMUM 18" LONG ALUMINUM INSULATION JACKET
6. INSULATION - SEE SPECS FOR THICKNESS
7. PIPE
8. SEAL WITH WATERPROOF CAULKING
9. STEEL DECK WITH INSULATION
10. PACK ANNULAR SPACE WITH MINERAL WOOL, MIN 1" DEPTH
11. PIPE SLEEVE (I.D. MIN. 1" LARGER THAN O.D. OF PIPE) AND INSULATION
12. WATERPROOF GROUT
13. CORE DRILL MIN. 1" LARGER HOLE THAN O.D. OF PIPE SLEEVE (12" MAXIMUM CORE DRILL SIZE) AND INSULATION
14. EXTERIOR INSULATION JACKET
15. PITCH PAN, 18 GA. GALV. SHEET METAL BY MECHANICAL CONTRACTOR, SUPPLIED TO ROOFING CONTRACTOR
16. FILL WITH PLASTIC FLASHING
17. CONCRETE ROOF DECK
18. ROOFING
19. CAULK WITH FIBROUS MATERIAL BEFORE ADDING PLASTIC FLASHING

C5 PIPE PENETRATION DETAIL
SCALE = NONE



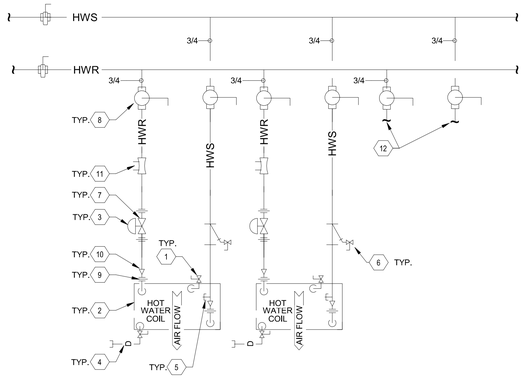
1. TOP DISCHARGE POWER ROOF EXHAUSTER
2. INTEGRAL CURB CAP. SECURE AND CAULK TO CURB.
3. 24" TALL FACTORY ROOF CURB SECURELY ANCHORED TO ROOF AS SHOWN ON ARCHITECTURAL DRAWINGS. FLASH AND COUNTERFLASH CURB TO ROOF.
4. FIELD APPLIED 2 HOUR FIRE RATED DUCT WRAP. (TYP. COMPRISING OF 2 LAYERS OF MATERIAL). UNIFRAX "FIREWRAP MAX 2.0 - ICC SYSTEM". INSTALL DUCT WRAP PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
5. 16 GA. WELDED BLACK IRON DUCTWORK FROM KITCHEN HOOD.
6. VENTILATED CURB EXTENSION
7. GREASE CUP WITH DRAIN TUBE
8. 2'x2'x3" GREASE PAN WITH 2" PEA GRAVEL BED. SOLDER BOTTOM AND SIDES OF PAN.
9. MAINTAIN 1" CLEARANCE (MINIMUM) BETWEEN ROOF OPENING AND 2 HOUR FIRE RATED DUCT WRAP. AN AIR GAP SHALL BE MAINTAINED AROUND DUCT SO THAT AIR CIRCULATES FROM CEILING CAVITY UP AND OUT OF VENTILATED CURB EXTENSION.
10. OVERLAP 2 HOUR FIRE WRAP AT SEAMS AND SECURE FIRE WRAP WITH METAL PINS AND STAINLESS STEEL BANDING PER MANUFACTURER'S INSTALLATION REQUIREMENTS. NOTE: WHERE SEAMS OCCUR, DUCT WRAP MATERIAL CAN BE UP TO 3 LAYERS THICK. CONSIDER MATERIAL THICKNESS WHEN COORDINATING ROOF OPENINGS AND DUCT ENCLOSURES.
11. 2 HOUR RATED FIRE WRAP MATERIAL SHALL EXTEND UP THROUGH ROOF TO TOP OF ROOF CURB AND/OR BOTTOM OF VENTILATED CURB EXTENSION.
12. SLOPE GREASE DUCT A MINIMUM OF 1/4" PER FOOT TOWARDS HOOD.
13. UL LISTED GREASE DUCT ACCESS DOOR CONSTRUCTED OF SAME GAUGE MATERIAL AS GREASE DUCT. INSTALL ACCESS DOOR ON SIDE OF GREASE DUCT EVERY 8'-0".

A1 GREASE EXHAUST FAN AND DUCT DETAIL
SCALE = NONE



1. ROOF SKID - SEE "ROOF SKID DETAIL"
2. UNI-STRUT MOUNTING RAIL - ANCHOR TO TOP OF ROOF SKID.
3. INSTALL AND ANCHOR OUTDOOR CONDENSING UNIT TO UNI-STRUT RAILS AND ROOF SKIDS AT FOUR MOUNTING BRACKET LOCATIONS FURNISHED WITH OUTDOOR CONDENSING UNIT.
4. WHERE CONDENSING UNITS ARE LOCATED REMOTE FROM VERTICAL BUILDING SURFACES, PROVIDE UNI-STRUT STAND (BY DIVISION 23) FOR MOUNTING OF ELECTRICAL DISCONNECT. COORDINATE LOCATION WITH ELECTRICAL SHEETS AND DIVISION 26 CONTRACTOR.
5. PROVIDE LATERAL BRACING FROM UNI-STRUT STAND TO OPPOSITE ROOF SKID.
6. ELECTRICAL DISCONNECT - BY DIVISION 26
7. CONDUIT AND CONTROL WIRING BETWEEN INDOOR UNIT AND OUTDOOR CONDENSING UNIT. CONDUIT BY DIVISION 26 LOW VOLTAGE CONTROL WIRING BY DIVISION 23. ROUTE CONDUIT AND WIRING DOWN THROUGH ROOF. SEE ARCHITECTURAL DETAIL FOR ROOF PENTRATION.
8. REFRIGERANT PIPING WITH INSULATION PER SPECIFICATION 230700 FROM OUTDOOR CONDENSING UNIT DOWN THROUGH ROOF TO INDOOR UNIT. SEE ARCHITECTURAL DETAIL FOR ROOF PENTRATION. INSTALL PER MANUFACTURER'S PIPING INSTALLATION REQUIREMENTS.

A4 ROOF TOP OUTDOOR CONDENSING UNIT DETAIL
SCALE = NONE



1. MANUAL AIR VENT ON COIL OR HWR PIPING.
2. HOT WATER COIL
3. VALVE ACTUATOR
4. DRAIN
5. TEMPERATURE-PRESSURE FITTING
6. STRAINER WITH BLOWDOWN VALVE
7. 2-WAY CONTROL VALVE, NORMALLY CLOSED. FAIL TO COOL.
8. BALL VALVE (TYP)
9. UNION (TYP)
10. REDUCER (TYP)
11. MANUAL FLOW CONTROL VALVE, SEE SPECIFICATIONS.
12. REFER TO INDOOR VAV MULTIZONE AIR HANDLING UNIT SCHEDULE FOR NUMBER OF COILS

A5 MULTI ZONE VAV TERMINAL UNIT WITH REHEAT COIL - (2-WAY CONTROL VALVE)
SCALE = NONE

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5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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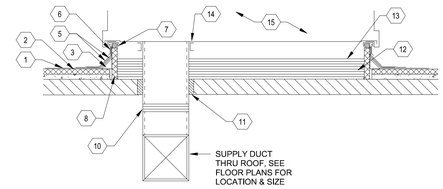
SHEET TITLE
MECHANICAL DETAILS

M-502

Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 2:47:59 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt

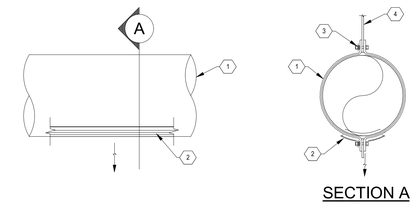


KEYNOTES

1. EXISTING LIGHTWEIGHT PUMICE CONCRETE
2. EXISTING RIGID INSULATION, VERIFY THICKNESS
3. NEW FIBROUS CANT STRIP
4. REPLACE ROOFING BENEATH UNIT WITH LIKE MATERIAL
5. FLASHING
6. COUNTERFLASHING
7. SEAL STRIP
8. ROOF CURB FOR EQUIPMENT
9. EQUIPMENT SUPPORT CURB AS REQUIRED
10. FLEX DUCT CONNECTOR
11. SEAL SPACE BETWEEN DUCT AND ROOF OPENING WITH 3 LB DENSITY FIBERGLASS
12. 4 LAYERS OF 1/2" GYPBOARD BELOW UNIT ON ROOF DECK (CONTINUOUS)
13. INSTALL 4 LAYERS OF 1", 3 LB DENSITY FIBERGLASS DUCT BOARD BETWEEN UNIT AND GYPBOARD (CONTINUOUS)
14. INSTALL RUBBER GASKETS BETWEEN DUCT FLANGE AND UNIT
15. WHERE COMPRESSOR SECTION IS OUTSIDE OF CURB, A SIMILAR SOUND ATTENUATION ENCLOSURE BELOW COMPRESSORS SHALL BE PROVIDED. THE CONTRACTOR SHALL SUBMIT DRAWINGS FOR PROPOSED METHOD, FOR APPROVAL, PRIOR TO INSTALLATION

D5 ROOF CURB DETAIL- MAU-1

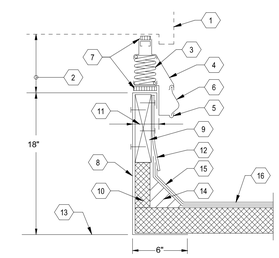
SCALE = NONE



1. ROUND SUPPLY DUCT. SIZE PER PLAN.
2. PRICE MODEL SDS LINEAR SUPPLY DIFFUSER WITH FRAME TYPE 16 FOR MOUNTING DIRECTLY TO SPIRAL DUCT. MOUNT DIFFUSER AT BOTTOM OF DUCT, DIRECTED DOWN. DIFFUSER SHALL BE BRUSHED METAL FINISH.
3. LOAD-RATED FASTENERS
4. THREADED ROD HANGER

C5 EXPOSED DUCT SUPPORT WITH LINEAR DIFFUSERS

SCALE = NONE

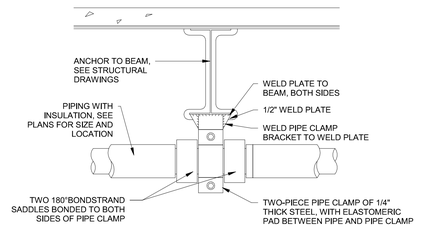


KEYNOTES

1. ROOFTOP UNIT, SEE EQUIPMENT SCHEDULE. VERIFY UNIT BASE DIMENSIONS AND WEIGHT PRIOR TO FABRICATING MOUNTING CURB OR VIBRATION ISOLATOR BASE
2. SPRING VIBRATION ISOLATOR BASE, SEE EQUIPMENT SCHEDULE. ISOLATOR BASE SHALL MATCH ROOFTOP UNIT AND TO INCLUDE ITEMS LISTED IN KEYED NOTES 3, 4, 5, 6, AND 7 BELOW
3. STEEL SPRING ISOLATORS WITH RETAINERS
4. UPPER ALUMINUM SUPPORT MEMBER, CONTINUOUS
5. LOWER ALUMINUM MOUNTING MEMBER, CONTINUOUS
6. NEOPRENE WEATHER SEAL, CONTINUOUS
7. WEATHERPROOF SEAL, CONTINUOUS
8. 14 GA. GALV. STEEL ROOF MOUNTING FRAME CONTINUOUS AROUND PERIMETER OF ROOFTOP UNIT WITH MITERED CORNERS AND WELDED FOR WATERTIGHT SEAL
9. 2x6 NAILER STRIP, CONTINUOUS
10. 2" THICK RIGID INSULATION
11. 2-3/16", VERIFY TO SUIT VIBRATION BASE
12. 20 GA. GALV. STEEL COUNTERFLASH, CONTINUOUS
13. ROOF DECK, SEE ARCHITECTURAL AND STRUCTURAL FOR ROOF TYPE
14. FIBER CANT STRIP, BY OTHERS
15. FLASHING, BY OTHERS
16. ROOFING, SEE ARCHITECTURAL FOR TYPE

B5 SPRING ISOLATED CURB DETAIL

SCALE = NONE



A5 PIPE ANCHOR DETAIL

SCALE = NONE

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MECHANICAL DETAILS

M-503

Farmington Preschool Academy

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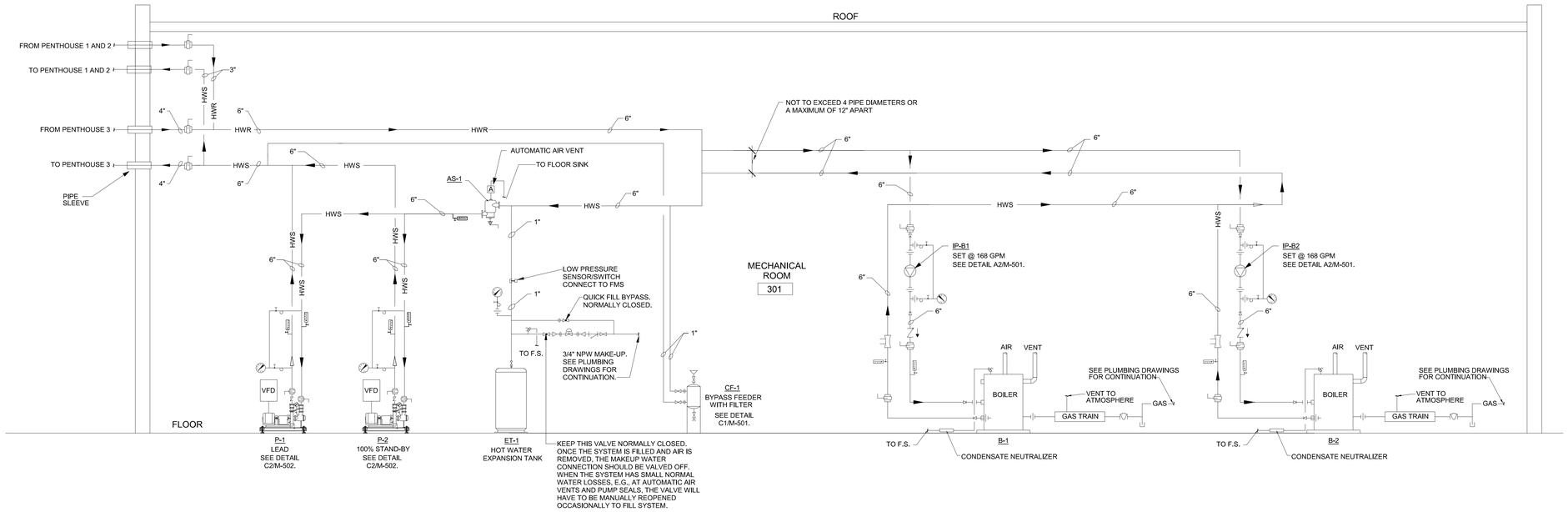

1 HEATING WATER PIPING SCHEMATIC

SCALE: 3/16" = 1'-0"

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MECHANICAL DIAGRAMS

M-601

Farmington Preschool Academy

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INDOOR VAV MULTIZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT - SECTION 23 7313

SYMBOL	MANUFACTURER & MODEL NO.	TYPE	LOCATION
MZU-1	TRANE CSAA025UA	PERFORMANCE CLIMATE CHANGER	405 PENTHOUSE 1
MZU-2	TRANE CSAA025UA	PERFORMANCE CLIMATE CHANGER	406 PENTHOUSE 2
MZU-3	TRANE CSAA035UA	PERFORMANCE CLIMATE CHANGER	403 PENTHOUSE 3
MZU-4	TRANE CSAA030UA	PERFORMANCE CLIMATE CHANGER	403 PENTHOUSE 3

	SUPPLY FAN SECTION										
				PER FAN					MOTOR		
SYMBOL	TOTAL AIRFLOW (CFM)	FAN SIZE AND TYPE	FAN ARRAY QTY.	AIRFLOW (CFM)	EXT. SP. (IN. WC)	TOTAL SP. (IN. WC)	BHP	RPM	QTY	HP EACH	V/PH/H
MZU-1	9,300	DIRECT DRIVE PLENUM	2	4,650	1.1	2.552	7.428	2414	2	5	460/3/60
MZU-2	10,400	DIRECT DRIVE PLENUM	2	5,200	1.1	2.621	9.280	2605	2	5	460/3/60
MZU-3	15,800	DIRECT DRIVE PLENUM	2	7,900	1.5	3.155	12.963	2092	2	7.5	460/3/60
MZU-4	12,900	DIRECT DRIVE PLENUM	2	6,450	1.3	2.920	10.813	2164	2	7.5	460/3/60

	EXHAUST FAN SECTION						
				PER FAN	MOTOR		
SYMBOL	TOTAL AIRFLOW (CFM)	FAN SIZE AND TYPE	FAN QTY	AIRFLOW (CFM)	QTY	HP EACH	V/PH/H
MZU-1	9,300	DIRECT DRIVE PLENUM	1	9,300	1	5	460/3/60
MZU-2	10,400	DIRECT DRIVE PLENUM	1	10,400	1	5	460/3/60
MZU-3	15,800	DIRECT DRIVE PLENUM	2	7,900	2	3	460/3/60
MZU-4	12,900	DIRECT DRIVE PLENUM	2	6,450	2	3	460/3/60

	DIRECT EXPANSION COOLING COIL						
					EAT (°F)	LAT (°F)	
SYMBOL	REFR. TYPE	MAX. FACE VEL. (FPM)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	DB/WB	DB/WB	AIR MAX. PD (IN. WC)
MZU-1	410A	376	265.0	265.0	84/58	52/46	0.188
MZU-2	410A	420	318.0	318.0	85/58	51/45	0.207
MZU-3	410A	452	492.0	492.0	85/58	50/45	0.313
MZU-4	410A	436	372.0	372.0	86/60	54/48	0.293

CONTINUED - INDOOR VAV MULTIZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT - SPECIFICATION SECTION 23 7313

	MAIN HOT WATER HEATING COIL								
						WATER TEMP (°F)		MAX PRESSURE LOSS	
SYMBOL	TOTAL CAPACITY (MBH)	MAX. FACE VELOCITY (FPM)	EAT (°F)	LAT (°F)	GPM	ENT.	LVG.	AIR (IN. WC)	WATER (FT. WC)
MZU-1	213.57	201	7.0	60.0	21.41	130	110	0.011	15.82
MZU-2	248.77	220	7.0	60.0	24.94	130	110	0.017	1.27
MZU-3	394.28	257	7.0	60.0	39.52	130	110	0.022	3.13
MZU-4	342.65	254	7.0	60.0	34.34	130	110	0.022	2.45

	INDIRECT/DIRECT EVAPORATIVE COOLING SECTION - INDIRECT									
							PUMP	PER PUMP		
SYMBOL	AIRFLOW RATE (CFM)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	STATIC PRESSURE DROP (IN H20)	COOLING EFFICIENCY (%)	QTY	HP	GPM	V/PH/H
MZU-1	9,300	280.0	94/61	70/52	0.8	72	1	1/3	29	115/1/60
MZU-2	10,400	300.0	94/61	70/52	0.8	72	1	1/3	29	115/1/60
MZU-3	15,800	410.0	94/61	70/52	0.8	72	1	1/3	29	115/1/60
MZU-4	12,900	325.0	94/61	70/52	0.8	72	1	1/3	29	115/1/60

	DIRECT											FILTER			
								PUMP	PER PUMP						
SYMBOL	AIRFLOW RATE (CFM)	ADIABATIC COOLING CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	STATIC PRESSURE DROP (IN H20)	COOLING EFFICIENCY (%)	COOLING MEDIA	QTY	HP	GPM	VOLT/PH/H	TYPE	MIN OUTSIDE AIR (CFM)	TOTAL OPERATING WEIGHT (LBS.)	OVERALL UNIT DIMENSIONS (H X W X L) (INCHES)
MZU-1	9,300	150.0	70/52	56/52	0.2	80	12" CELDEK	1	1/3	29	115/1/60	2" MERV 8	4,500	12,000	136" X 84" X 311"
MZU-2	10,400	165.0	70/52	56/52	0.2	80	12" CELDEK	1	1/3	29	115/1/60	2" MERV 8	5,300	12,000	136" X 84" X 311"
MZU-3	15,800	244.0	70/52	56/52	0.2	80	12" CELDEK	1	1/3	29	115/1/60	2" MERV 8	8,400	16,000	136" X 120" X 317"
MZU-4	12,900	193.0	70/52	56/52	0.2	80	12" CELDEK	1	1/3	29	115/1/60	2" MERV 8	7,200	14,000	136" X 96" X 302"

CONTINUED INDOOR VAV MULTIZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT - SPECIFICATION SECTION 23 7313

	DISCHARGE SOUND POWER BY OCTIVE BAND								
ZONE	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	NOTES
MZU-1	74	77	83	80	81	82	79	68	
MZU-2	76	80	81	86	84	83	83	71	
MZU-3	80	82	90	86	87	87	87	77	
MZU-4	77	80	83	86	82	84	78	68	

LIGHTS AND SWITCH- 115/1/60 CIRCUIT

CONDENSING BOILERS - SECTION 23 5216

							ELECTRICAL DATA					
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	SEA LEVEL INPUT (BTUH)	FLUE SIZE (IN.)	COMBUSTION AIR INLET SIZE (IN.)	VOLT	PHASE	HZ	THERMAL EFFICIENCY (%)	OPERATING WEIGHT (LBS.)	NOTES
B-1	LOCHINVAR FB-1751	301 MECH	HEATING WATER SYSTEM	1,750,000	8	8	120	1	60	99	2,500	130 deg F SUPPLY WATER TEMPERATURE
B-2	LOCHINVAR FB-1751	301 MECH	HEATING WATER SYSTEM	1,750,000	8	8	120	1	60	99	2,500	130 deg F SUPPLY WATER TEMPERATURE

PROVIDE CONDENSATE NEUTRALIZATION KIT, BMS GATEWAY - BACNET IP

PUMPS

										ELECTRICAL DATA				
SYMBOL	BELL & GOSSETT MODEL NO.	LOCATION	SERVICE	TYPE	CAPACITY (GPM)	MIN. FLOW (GPM)	TOTAL HEAD (FT. WG)	PUMP RPM	MOTOR HP	VOLT	PHASE	HZ	OPERATING WEIGHT (LBS.)	NOTES
IP-1	SERIES e-60 MODEL 1x1x5-1/4	405 PENTHOUSE 1	MZU-1 HEATING WATER COIL	IN-LINE	25	4.68	20	1750	0.33	208	1	60	60	
IP-2	SERIES e-60 MODEL 1x1x5-1/4	406 PENTHOUSE 2	MZU-2 HEATING WATER COIL	IN-LINE	25	4.68	20	1750	0.33	208	1	60	60	
IP-3	SERIES e-60 MODEL 1.5x1x5-1/4	403 PENTHOUSE 3	MZU-3 HEATING WATER COIL	IN-LINE	40	8.11	20	1750	0.5	208	1	60	60	
IP-4	SERIES 60 MODEL 1-1/4x5-1/4	403 PENTHOUSE 3	MZU-4 HEATING WATER COIL	IN-LINE	35	8.11	20	1750	0.5	208	1	60	60	
IP-B1	SERIES e-80 MODEL 3x3x7C	301 MECH	HEATING WATER SYSTEM	IN-LINE	168	31.5	25	1750	2	460	3	60	180	
IP-B2	SERIES e-80 MODEL 3x3x7C	301 MECH	HEATING WATER SYSTEM	IN-LINE	168	31.5	25	1750	2	460	3	60	180	
P-1	SERIES e-1510 MODEL 2-1/2BB	301 MECH	HEATING WATER SYSTEM	BASE MOUNTED	240	48.8	60	1603	7.5	460	3	60	400	PROVIDE VFD
P-2	SERIES e-1510 MODEL 2-1/2BB	301 MECH	HEATING WATER SYSTEM	BASE MOUNTED	240	48.8	60	1603	7.5	460	3	60	400	PROVIDE VFD

ALL SELECTIONS ARE BASED ON 5500 FT. ABOVE SEA LEVEL.

VARIABLE FREQUENCY DRIVES

			ELECTRICAL				
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	VOLT	PHASE	HZ	MOTOR HP	NOTES
VFD1-1	ABB MODEL ACH550	MZU-1 SUPPLY	460	3	60	5	HEAVY DUTY WITH FUSED DISCONNECT
VFD1-2	ABB MODEL ACH550	MZU-1 SUPPLY	460	3	60	5	HEAVY DUTY WITH FUSED DISCONNECT
VFD1-3	ABB MODEL ACH550	MZU-1 EXHAUST	460	3	60	5	HEAVY DUTY WITH FUSED DISCONNECT
VFD2-1	ABB MODEL ACH550	MZU-2 SUPPLY	460	3	60	5	HEAVY DUTY WITH FUSED DISCONNECT
VFD2-2	ABB MODEL ACH550	MZU-2 SUPPLY	460	3	60	5	HEAVY DUTY WITH FUSED DISCONNECT
VFD2-3	ABB MODEL ACH550	MZU-2 EXHAUST	460	3	60	5	HEAVY DUTY WITH FUSED DISCONNECT
VFD3-1	ABB MODEL ACH550	MZU-3 SUPPLY	460	3	60	7.5	HEAVY DUTY WITH FUSED DISCONNECT
VFD3-2	ABB MODEL ACH550	MZU-3 SUPPLY	460	3	60	7.5	HEAVY DUTY WITH FUSED DISCONNECT
VFD3-3	ABB MODEL ACH550	MZU-3 EXHAUST	460	3	60	3	HEAVY DUTY WITH FUSED DISCONNECT
VFD3-4	ABB MODEL ACH550	MZU-3 EXHAUST	460	3	60	3	HEAVY DUTY WITH FUSED DISCONNECT
VFD4-1	ABB MODEL ACH550	MZU-4 SUPPLY	460	3	60	7.5	HEAVY DUTY WITH FUSED DISCONNECT
VFD4-2	ABB MODEL ACH550	MZU-4 SUPPLY	460	3	60	7.5	HEAVY DUTY WITH FUSED DISCONNECT
VFD4-3	ABB MODEL ACH550	MZU-4 EXHAUST	460	3	60	3	HEAVY DUTY WITH FUSED DISCONNECT
VFD4-4	ABB MODEL ACH550	MZU-4 EXHAUST	460	3	60	3	HEAVY DUTY WITH FUSED DISCONNECT
VFD-P1	ABB MODEL ACH550	BOILER	460	3	60	7.5	HEAVY DUTY WITH FUSED DISCONNECT
VFD-P2	ABB MODEL ACH550	BOILER	460	3	60	7.5	HEAVY DUTY WITH FUSED DISCONNECT

ALL VFDS SHALL BE FIELD INSTALLED. REFER TO SPECIFICATION SECTION 23 0550- VARIABLE FREQUENCY DRIVES.

EXPANSION TANK

SYMBOL	BELL & GOSSETT MODEL NO.	LOCATION	SERVICE	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	WEIGHT (LBS.)	NOTES
ET-1	D-120V	301 MECH	HEATING WATER SYSTEM	68	34	800	INITIAL TANK PRESSURE 12 PSIG

AIR SEPARATOR

SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	CAPACITY (GPM)	WATER TEMP. (DEG F)	PIPE CONNECTION (IN)	WEIGHT (LBS)
AS-1	ROLAIRTROL R-6F	301 MECH	HEATING WATER SYSTEM	700	130	6"	600

CHEMICAL FEED SYSTEM

SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	TYPE	CAPACITY (GALLONS)	NOTES
CF-1	NEPTUNE FTF-5DB	301 MECH	VERTICAL DISCHARGE BOTTOM DRAIN	5	PROVIDE FILTER BAG

INDOOR VAV MULTIZONE AIR HANDLING UNIT WITH INDIVIDUAL ZONE REHEAT - INDIVIDUAL ZONE SCHEDULE

ZONE	T-STAT LOCATION	MULTIZONE UNIT	CONNECTION SIZE TO MZU (IN.)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	HEATING MAX AIRFLOW (CFM)	COIL EAT (°F)	COIL LAT (°F)	COIL CAPACITY (MBH)	FLOW RATE (GPM)
1-01	209 CLASSROOM	MZU-1	16X16	1550	465	698	55	95	30.3	3.0
1-02	200 VESTIBULE	MZU-1	10X16	600	180	270	55	95	11.7	1.7
1-03	201 RECEPTION & WAITING	MZU-1	12X16	985	296	443	55	95	19.2	1.9
1-04	202 DIRECTOR	MZU-1	12X16	950	285	428	55	95	18.6	1.9
1-05	203 SOCIAL WORKER	MZU-1	10X16	760	228	342	55	95	14.8	1.5
1-06	205 CONFERENCE	MZU-1	10X16	710	213	320	55	95	13.9	1.4
1-07	210 CLASSROOM	MZU-1	16X16	1440	432	648	55	95	28.1	2.8
1-08	212 CLASSROOM	MZU-1	16X16	1440	432	648	55	95	28.1	2.8
1-09	213 NURSE	MZU-1	10X16	825	248	371	55	95	16.1	1.6
1-10	211 OP/TP	MZU-1	16X16	1450	435	653	55	95	28.3	2.8
2-01	217 OFFICE	MZU-2	8X16	310	93	140	55	95	6.1	0.6
2-02	224 DIAGNOSTITIAN	MZU-2	10X16	680	204	306	55	95	13.3	1.3
2-03	201 HALLWAY	MZU-2	20X16	2100	630	945	55	95	41.0	4.1
2-04	214 CLASSROOM	MZU-2	16X16	1440	432	648	55	95	28.1	2.8
2-05	218 CLASSROOM	MZU-2	16X16	1440	432	648	55	95	28.1	2.8
2-06	220 CLASSROOM	MZU-2	20X16	2000	600	900	55	95	39.1	3.9
2-07	221 CLASSROOM	MZU-2	14X16	1280	384	576	55	95	25.0	2.5
2-08	226 KITCHEN	MZU-2	20X16	1900	570	855	55	95	37.1	3.7
2-09	223 WORKROOM	MZU-2	14X16	990	297	446	55	95	19.3	1.9
3-01	116 CLASSROOM	MZU-3	12X18	1300	390	585	55	95	25.4	2.5
3-02	112 WORKROOM	MZU-3	8X18	760	228	342	55	95	14.8	1.5
3-03	114 CLASSROOM	MZU-3	12X18	1300	390	585	55	95	25.4	2.5
3-04	113 CLASSROOM	MZU-3	16X18	1720	516	774	55	95	33.6	3.4
3-05	111 CLASSROOM	MZU-3	14X18	1400	420	630	55	95	27.3	2.7
3-06	109 CLASSROOM	MZU-3	14X18	1400	420	630	55	95	27.3	2.7
3-07	101 MULTIPURPOSE	MZU-3	20X18	2700	810	1215	55	95	52.7	5.3
3-08	107 CLASSROOM	MZU-3	14X18	1400	420	630	55	95	27.3	2.7
3-09	101 MULTIPURPOSE	MZU-3	20X18	2500	750	1125	55	95	48.8	4.9
3-10	106 CLASSROOM	MZU-3	14X18	1620	486	729	55	95	31.6	3.2
3-11	110 SPECIAL ED	MZU-3	8X18	840	252	378	55	95	16.4	1.6
3-12	104 CLASSROOM	MZU-3	14X18	1420	426	639	55	95	27.7	2.8
4-01	312 WORKROOM	MZU-4	10X18	800	240	360	55	95	15.6	1.6
4-02	314 CLASSROOM	MZU-4	12X18	1300	390	585	55	95	25.4	2.5
4-03	316 CLASSROOM	MZU-4	12X18	1300	390	585	55	95	25.4	2.5
4-04	300 EAST STAIR	MZU-4	20X18	2000	600	900	55	95	39.1	3.1
4-05	313 CLASSROOM	MZU-4	14X18	1420	426	639	55	95	27.7	2.8
4-06	311 CLASSROOM	MZU-4	14X18	1420	426	639	55	95	27.7	2.8
4-07	319 CLASSROOM	MZU-4	14X18	1420	426	639	55	95	27.7	2.8
4-08	307 CLASSROOM	MZU-4	14X18	1420	426	639	55	95	27.7	2.8
4-09	304 CLASSROOM	MZU-4	16X18	1700	510	765	55	95	33.2	3.3
4-10	306 CLASSROOM	MZU-4	12X18	1300	390	585	55	95	25.4	2.5
4-11	310 SPECIAL ED	MZU-4	10X18	840	252	378	55	95	16.4	1.6

PROVIDE 3/4" HWS AND 3/4" HWR TO EACH COIL.
REFER TO SPECIFICATION 23 7313.
DDC CONTROLS CONTRACTOR SHALL PROVIDE 2-WAY MODULATING CONTROL VALVE, 120/24 VAC TRANSFORMER, LOW VOLTAGE ACTUATOR, AIRFLOW STATION, AND SENSORS FOR EACH ZONE. SEE SPECIFIACTION 23 0900.
DDC CONTROLS CONTRACTOR SHALL LOCATE ALL TRANSFORMERS AND DDC CONTROLLERS INSIDE CONTROL PANEL MOUNTED ON THE SIDE OF MZU (DISCHARGE SECTION).

LOUVERS

				LOUVER DIMENSIONS (INCH)		FREE AREA		
SYMBOL	GREENHECK MODEL NO.	LOCATION	APPLICATION	WIDTH	HEIGHT	SQ. FT.	VELOCITY (FT/MIN)	PRESSURE DROP (IN. WG)
L-1	ESD-635	405 PENTHOUSE 1	INTAKE	84	60	21.5	424	0.027
L-2	ESD-635	405 PENTHOUSE 1	RELIEF	84	60	21.5	424	0.024
L-3	ESD-635	406 PENTHOUSE 2	INTAKE	90	60	23.1	437	0.029
L-4	ESD-635	406 PENTHOUSE 2	RELIEF	90	60	23.1	437	0.026
L-5	ESD-635	403 PENTHOUSE 3	INTAKE	108	72	34.6	457	0.031
L-6	ESD-635	403 PENTHOUSE 3	RELIEF	108	72	34.6	457	0.031
L-7	ESD-635	403 PENTHOUSE 3	INTAKE	90	72	28.4	448	0.030
L-8	ESD-635	403 PENTHOUSE 3	RELIEF	90	72	28.4	448	0.027
L-9	ESD-635	301 MECHANCIAL	INTAKE	24	24	1.8	439	0.029

AIR COOLED CONDENSERS

						CONDENSER DATA						ELECTRICAL DATA					
SYMBOL	TRANE MODEL NO.	TYPE	UNIT SERVED	NOMINAL CAPACITY (TONS)	REFR. TYPE	LIQUID LINE	SUCTION LINE	AMBIENT TEMP (DEG F)	NUMBER OF CIRCUITS	EER/IPLV	COMPRESSOR QUANTITY	VOLT	PHASE	HZ	MCA	MOCP	OPERATING WEIGHT (LBS.)
C-1	RAUJ25	AIR COOLED CONDENSER	MZU-1	25	R-410A	7/8"	1-5/8"	95	1	12.1	2	460	3	60	52	70	2,500
C-2	RAUJ30	AIR COOLED CONDENSER	MZU-2	30	R-410A	7/8"	2-1/8"	95	1	11.4	2	460	3	60	63	80	2,500
C-3	RAUJ40	AIR COOLED CONDENSER	MZU-3	40	R-410A	5/8"	1-5/8"	95	2	11.7	4	460	3	60	87	100	3,800
C-4	RAUJ30	AIR COOLED CONDENSER	MZU-4	30	R-410A	7/8"	2-1/8"	95	1	11.4	2	460	3	60	63	80	2,500

PROVIDE SINGLE POINT CONNECTION WITH FUSED DISCONNECT. PROVIDE REFRIGERANT PIPING AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL. PROVIDE HOT GAS BYPASS (FROST CONTROL FOR COIL PROTECTION IS ACCEPTABLE). PROVIDE ROOF CURB WITH 2" SPRING VIBRATION ISOLATORS- THYBARVIBRO CURB III OR EQUIVALENT. PROVIDE HAIL GUARDS. REFER TO SPECIFICATIONS 23 2313.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	LMD
CHECKED BY:	IM

SHEET TITLE
MECHANICAL SCHEDULES

M-701

MAKE-UP AIR UNIT AND KITCHEN EXHAUST FAN SHALL BE SAME MANUFACTURER AS KITCHEN TYPE 1 HOOD

ALL SELECTIONS ARE BASED ON 5500 FT. ABOVE SEA LEVEL.

MAKE-UP AIR UNIT

SYMBOL	GREEMHECK MODEL NO.	LOCATION	FOOD SERVICE ITEM SERVED	SUPPLY FAN CFM	SUPPLY FAN EXT. SP (IN. WC)	SUPPLY FAN TOTAL SP (IN. WC)	SUPPLY FAN FAN RPM	SUPPLY FAN FAN BHP	MOTOR DATA RPM	MOTOR DATA HP	MOTOR DATA V	MOTOR DATA PH	MOTOR DATA HZ	COOLING MEDIA	COOLING EAT DB (°F)	COOLING LAT DB (°F)	DIRECT FIRED HEAT EXCHANGER GAS INPUT (MBH)	DIRECT FIRED HEAT EXCHANGER HEATING OUTPUT (MBH)	DIRECT FIRED HEAT EXCHANGER EAT DB (°F)	DIRECT FIRED HEAT EXCHANGER LAT DB (°F)	WEIGHT (LBS.)	OUTSIDE AIRFLOW (CFM)	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
MAU-1	DGX-P116-H12-D1	KITCHEN ROOF	TYPE I GREASE HOOD	1280	1.0	1.7	1541	0.59	1200	.75	460	3	60	CELDEK	96/64	66	71.1	65.4	12	70	1200	1280	77.2	77.8	70.8	69.3	68.6	65.2	63.2	59.1

(Octave band columns: INLET SOUND POWER BY OCTAVE BAND)

DOWN DISCHARGE, 2" ALUMINUM FILTERS, INTERNAL DISCHARGE TEMPERATURE CONTROL WITH COOLING THERMOSTAT, FREEZE PROTECTION KIT, 24" TALL ROOF CURB, MOTORIZED DAMPER WITH ACTUATOR, INVERTER DUTY MOTORS. PROVIDE NON-POWERED CONVENIENCE OUTLET WITH UNIT.

KITCHEN EXHAUST FAN

SYMBOL	GREENHECK MODEL NO.	AREA SERVED	TYPE	CFM	S.P. (IN. WC)	FAN RPM	BHP	MOTOR DATA HP	MOTOR DATA VOLT	MOTOR DATA PH	MOTOR DATA HZ	MOTOR DATA FLA	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	OPERATING WEIGHT (LBS.)	NOTES
KEF-1	CUBE-140	TYPE I GREASE HOOD	CENTRIFUGAL UPBLAST	1600	1.0	1480	0.55	.75	460	3	60	1.6	73	72	77	72	64	60	57	54	120	INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A1/M-502.

(Octave band columns: INLET SOUND POWER BY OCTAVE BAND)

EXHAUST FANS

SYMBOL	GREENHECK MODEL NO.	AREA SERVED	TYPE	CFM	S.P. (IN. WC)	FAN RPM	BHP	MOTOR DATA HP	MOTOR DATA VOLT	MOTOR DATA PH	MOTOR DATA HZ	MOTOR DATA FLA	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	OPERATING WEIGHT (LBS.)	NOTES
EF-1	G-100-A	LOWER WEST WING	CENTRIFUGAL DOWNBLAST	500	0.6	1370	0.1	0.25	115	1	60	5.8	71	76	62	61	51	49	46	42	80	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-2	G-100-A	213 NURSE	CENTRIFUGAL DOWNBLAST	850	0.6	1603	0.19	0.25	115	1	60	5.8	71	72	72	66	58	56	52	46	80	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-3	G-098-A	UPPER WEST WING	CENTRIFUGAL DOWNBLAST	400	0.7	1560	0.11	0.25	115	1	60	5.8	75	74	74	65	61	57	52	48	80	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-4	G-100-A	223 WORKROOM	CENTRIFUGAL DOWNBLAST	520	0.6	1449	0.11	0.25	115	1	60	5.8	69	70	66	62	51	49	49	44	80	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-5	G-100-A	226 GENERAL KITCHEN	CENTRIFUGAL DOWNBLAST	520	0.5	1339	0.09	0.25	115	1	60	5.8	70	72	63	61	50	48	45	40	80	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-6	G-120-B	301 MECHANICAL ROOM	CENTRIFUGAL DOWNBLAST	800	0.3	1057	0.09	0.25	115	1	60	5.8	66	72	69	62	57	54	48	46	90	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-7	G-120-A	NORTH SIDE- FIRST AND SECOND LEVEL	CENTRIFUGAL DOWNBLAST	1120	0.8	1570	0.3	0.5	115	1	60	9.8	72	75	79	73	65	65	61	57	90	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-8	G-120-A	SOUTH SIDE- FIRST AND SECOND LEVEL	CENTRIFUGAL DOWNBLAST	980	1.0	1637	0.31	0.5	115	1	60	9.8	75	75	80	74	66	66	61	58	90	PROVIDE 115V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.
EF-9	G-140-VG	NORTH SIDE- FIRST AND SECOND LEVEL	CENTRIFUGAL DOWNBLAST	1480	1.0	1468	0.5	1.0	460	3	60	13	80	77	78	70	65	63	60	55	120	PROVIDE 24V MOTORIZED DAMPER. INSTALL ON 24" TALL ROOF CURB. REFER TO DETAIL A4/M-501.

(Octave band columns: INLET SOUND POWER BY OCTAVE BAND)

INDOOR SPLIT SYSTEM SCHEDULE

SYMBOL	DAIKIN MODEL NUMBER	AREA SERVED	TYPE	REFRIG TYPE	AIRFLOW (CFM)	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	EAT DB (F)	EAT WB (F)	SOUND LEVEL (dBA)	EER/SEER	MOTOR DATA VOLT	MOTOR DATA PH	MOTOR DATA HZ	WEIGHT (LBS)	HEIGHT / WIDTH / DEPTH (IN)
AC-1	FTX36WVJU9 (CO)	216 MDF	COOLING ONLY	R-410A	915	34,400	22,800	80	67	54	9.5 / 15.9	208	1	60	38	13-3/8" X 47-1/4" X 10-3/16"
AC-2	FTXS24BXVJU	233 ELEC	HEAT PUMP	R-410A	754	21,200	23,600	80	67	53	12.2 / 20.0	208	1	60	31	11-11/16" X 39-1/2" X 11-1/3"
AC-3	FTX36WVJU9	302 ELEC	HEAT PUMP	R-410A	915	34,400	22,800	80	67	54	9.5 / 15.9	208	1	60	38	13-3/8" X 47-1/4" X 10-3/16"
AC-4	FTK24BXVJU	112B IT	COOLING ONLY	R-410A	754	21,200	N/A	80	67	53	12.2 / 20.0	208	1	60	31	11-11/16" X 39-1/2" X 11-1/3"
AC-5	FTK24BXVJU	312B IT	COOLING ONLY	R-410A	754	21,200	N/A	80	67	53	12.2 / 20.0	208	1	60	31	11-11/16" X 39-1/2" X 11-1/3"

INDOOR UNIT SHALL BE ELECTRICALLY SERVED FROM THE OUTDOOR UNIT PER THE MANUFACTURER'S ELECTRICAL REQUIREMENTS AND DIAGRAMS. PROVIDE REFRIGERANT PIPING AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL. PROVIDE WIRELESS T-STAT, CONDENSATE LIFT PUMP.

OUTDOOR SPLIT SYSTEM SCHEDULE

SYMBOL	DAIKIN MODEL NUMBER	LOCATION	INDOOR UNIT SERVED	TYPE	RATED CAPACITY (BTUH)	AMBIENT DB (F)	COMPRESSOR DATA TYPE	COMPRESSOR DATA REFRIG. TYPE	COMPRESSOR DATA MAX PIPING LENGTH	COMPRESSOR DATA LIQUID SIZE	COMPRESSOR DATA SUCTION SIZE	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PH	ELECTRICAL DATA HZ	ELECTRICAL DATA MCA	ELECTRICAL DATA MOP	SOUND POWER (dBA)	WEIGHT (LBS)	HEIGHT/ WIDTH/ DEPTH (IN)
CU-1	RK36WMVJU (CO)	ROOF	AC-1	COOLING ONLY	34,400	95	HERMETIC SWING	R-410A	98-1/2'	1/4"	5/8"	208	1	60	16.6	20	59	132	28-15/16" X 34-1/4" X 12-5/8"
CU-2	RX24BXVJU	ROOF	AC-2	HEAT PUMP	21,500	95	HERMETIC SWING	R-410A	98-1/2'	1/4"	5/8"	208	1	60	16.55	20	55	104	27-13/32" X 36-5/8" X 13-13/16"
CU-3	RX36WMVJU9	ROOF	AC-3	HEAT PUMP	36,000	95	HERMETIC SWING	R-410A	98-1/2'	1/4"	5/8"	208	1	60	18.6	20	59	133	28-15/16" X 34-1/4" X 12-5/8"
CU-4	RK24BXVJU	ROOF	AC-4	COOLING ONLY	21,200	95	HERMETIC SWING	R-410A	98-1/2'	1/4"	5/8"	208	1	60	13.55	20	55	101	27-13/32" X 36-5/8" X 13-13/16"
CU-5	RK24BXVJU	ROOF	AC-5	COOLING ONLY	21,200	95	HERMETIC SWING	R-410A	98-1/2'	1/4"	5/8"	208	1	60	13.55	20	55	101	27-13/32" X 36-5/8" X 13-13/16"

INDOOR UNIT SHALL BE ELECTRICALLY SERVED FROM THE OUTDOOR UNIT PER THE MANUFACTURER'S ELECTRICAL REQUIREMENTS AND DIAGRAMS. PROVIDE REFRIGERANT PIPING AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL. PROVIDE WIND BAFFLE LOW AMBIENT KIT.
PROVIDE HAIL GUARD, FILTER SCREEN AND TRACK MOUNT SYSTEM BY AIR SOLUTIONS. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.

ELECTRIC UNIT HEATER

SYMBOL	TRANE MODEL NO.	LOCATION	AIRFLOW (CFM)	AIRFLOW TEMP. RISE (F)	HEATING (KW)	ELECTRICAL DATA MCA	ELECTRICAL DATA MOP	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	ELECTRICAL DATA HZ	ELECTRICAL DATA MOTOR HP	ELECTRICAL DATA MOTOR RPM	WEIGHT (LBS.)
EUH-1	UHEC-051CACA	231 FIRE RISER	400	40	5.0	18.1	25	277	1	60	1/125	1550	30
EUH-2	UHEC-051CACA	232 PLUMBING	400	40	5.0	18.1	25	277	1	60	1/125	1550	30
EUH-3	UHEC-071CACA	405 PENTHOUSE 1	700	34	7.5	27.1	35	277	1	60	1/50	1550	45
EUH-4	UHEC-071CACA	406 PENTHOUSE 2	700	34	7.5	27.1	35	277	1	60	1/50	1550	45
EUH-5	UHEC-071CACA	403 PENTHOUSE 3	700	34	7.5	27.1	35	277	1	60	1/50	1550	45
EUH-6	UHEC-071CACA	301 MECHANCIAL	700	34	7.5	27.1	35	277	1	60	1/50	1550	45
EUH-7	UHEC-051CACA	115 PLAT STORAGE	700	40	5.0	18.1	25	277	1	60	1/50	1550	30

PROVIDE MOUNTING BRACKET AND WALL MOUNTED THERMOSTAT.

GRILLES AND DIFFUSERS

SYMBOL	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	FACE DIMENSIONS (INCH)	NECK DIMENSIONS (INCH)	CFM RANGE	T.P. (IN. W.G.)	MAX NC	NOTES
SD-1	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12x12, 24x24	6	40-130	0.02-0.06	24	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12x12, 24x24	8	131-230	0.02-0.06	28	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	10	231-330	0.03-0.06	30	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	12	331-430	0.03-0.06	30	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	14	431-530	0.04-0.06	30	
SD-2	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	12x12, 24x24	6	40-130	0.02-0.09	30	PROVIDE OBD
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	12x12, 24x24	8	131-230	0.02-0.09	30	PROVIDE OBD
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24x24	10	231-330	0.02-0.08	30	PROVIDE OBD
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24x24	12	331-430	0.02-0.08	30	PROVIDE OBD
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24x24	14	431-530	0.03-0.08	30	PROVIDE OBD
LSD-1	PRICE SDBI 75	LINEAR SUPPLY	LAY-IN CEILING	4' LONG	8	SEE PLANS	0.03-0.06	30	2 SLOT, 3/4" SLOT, PROVIDE INSULATED PLENUM.
LSD-2	PRICE SDBI 100	LINEAR SUPPLY	LAY-IN CEILING	4' LONG	8	SEE PLANS	0.03-0.06	30	2 SLOT, 1" SLOT, PROVIDE INSULATED PLENUM.
LSD-3	PRICE SDBI 100	LINEAR SUPPLY	SIDEWALL	5' LONG	16" X 6"	SEE PLANS	0.03-0.06	30	4 SLOT, 1" SLOT, PROVIDE INSULATED PLENUM. MODIFY PLENUM PER DETAIL B1/M-501.
LSD-4	PRICE SDS 100	LINEAR SUPPLY	DUCT MOUNTED	5' LONG	NA	SEE PLANS	0.03-0.06	30	4 SLOT, 1" SLOT, TYPE 16 FRAME, COLOR PER ARCHITECT, SEE DETAIL C5/M-503.
LSD-5	PRICE SDBI 100	LINEAR SUPPLY	SIDEWALL	4' LONG	10	SEE PLANS	0.03-0.06	30	4 SLOT, 1" SLOT, PROVIDE INSULATED PLENUM
LSD-6	PRICE SDBI 100	LINEAR SUPPLY	LAY-IN CEILING	3' LONG	10	SEE PLANS	0.03-0.06	30	4 SLOT, 1" SLOT, PROVIDE INSULATED PLENUM
LSD-7	PRICE SDBI 100	LINEAR SUPPLY	LAY-IN CEILING	4' LONG	10	SEE PLANS	0.03-0.06	30	4 SLOT, 1" SLOT, PROVIDE INSULATED PLENUM
LSD-8	PRICE SDBI 75	LINEAR SUPPLY	FIXED CEILING	4' LONG	8	SEE PLANS	0.03-0.06	30	2 SLOT, 3/4" SLOT, PROVIDE INSULATED PLENUM WITH CABLE OPERATED DAMPER, PRICE MODEL VCR85C.
RG-1	PRICE 80	RETURN GRILLE	LAY-IN CEILING	24x24, 24x12, 12x12	SEE PLANS	-	N/A	N/A	
RG-2	PRICE 80	RETURN GRILLE	FIXED CEILING	24x24, 24x12, 12x12	SEE PLANS	-	N/A	N/A	
EG-1	PRICE 80	EXHAUST GRILLE	LAY-IN CEILING	24x24, 24x12, 12x12	SEE PLANS	SEE PLANS	0.01-0.08	25	
EG-2	PRICE 80	EXHAUST GRILLE	FIXED CEILING	24x24, 24x12, 12x12	SEE PLANS	SEE PLANS	0.01-0.08	25	
EG-3	PRICE 530	EXHAUST GRILLE	FIXED CEILING	SEE PLAN	SEE PLANS	SEE PLANS	0.01-0.08	25	

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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PROJECT NO:	K23-001
DRAWN BY:	LMD
CHECKED BY:	IM

SHEET TITLE
MECHANICAL SCHEDULES

M-702

Bridgers & Paxton Project No: 8819 3/21/2024 2:48:08 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmdougherty@bpce.com.rvt

INSTRUMENTATION SOCIETY OF AMERICA TABLE

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURING OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER FLAME		USER CHOICE	USER CHOICE	USER CHOICE
C	CONDUCTIVITY			CONTROL (13)	
D	DENSITY	DIFFERENTIAL			
E	VOLTAGE		SENSOR PRIMARY ELEMENT		
F	FLOW RATE	RATIO FRACTION			
G	GAUGE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOTION	MOMENTARY			MIDDLE INTERMEDIATE
N	HUMIDITY		USER DEFINED	USER DEFINED	USER DEFINED
O	USER CHOICE		ORIFICE RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTI-VARIABLE		MULTI-FUNCTION	MULTI-FUNCTION	MULTI-FUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X-AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y-AXIS		RELAY, COMPUTE CONVERT	
Z	POSITION DIMENSION	Z-AXIS		DRIVER, ACTUATOR UNCLASSIFIED FINAL CONTROL ELEMENT	

INSTRUMENTATION TYPE ABBREVIATION LIST

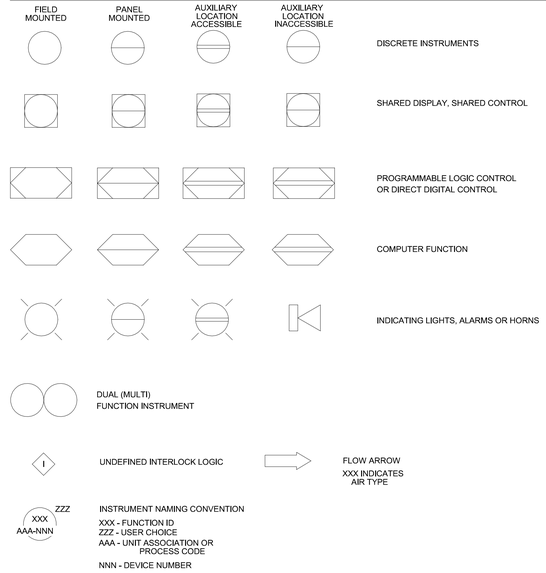
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AA	ANALYTICAL ALARM	LA	LEVEL ALARM	VA	VIBRATION ALARM
AE	ANALYTICAL ELEMENT	LC	LEVEL CONTROLLER (STAND ALONE)	VS	VIBRATION SWITCH
AET	ANALYTICAL ELEMENT TRANSMITTER	LCV	LEVEL CONTROL VALVE		
AI	ANALYTICAL INDICATOR	LE	LEVEL ELEMENT	XV	SOLENOID VALVE
AC	ANALYTICAL CONTROLLER	LIC	LEVEL INDICATING CONTROLLER		
AIC	ANALYTICAL INDICATING CONTROLLER	LIT	LEVEL INDICATING TRANSMITTER	YA	EQUIPMENT ALARM
AT	ANALYTICAL TRANSMITTER	LS	LEVEL SWITCH	YI	EQUIPMENT STATUS
AIT	ANALYTICAL INDICATING CONTROLLER	LT	LEVEL TRANSMITTER	YCD	SMOKE DAMPER
ACV	ANALYTICAL CONTROL VALVE	LY	LEVEL SIGNAL CONVERTER	YS	SMOKE DETECTOR
AY	ANALYTICAL SIGNAL CONVERTER				
		MV	MANUAL HAND VALVE	ZC	POSITION CONTROL
EI	VOLTAGE INDICATOR			ZI	POSITION INDICATOR
EA	VOLTAGE ALARM	NT	HUMIDITY TRANSMITTER	ZS	POSITION SWITCH
ES	VOLTAGE SWITCH (CONTROL RELAY)				
ESL	VOLTAGE SWITCH LOW (24 VAC OR LESS)	PA	PRESSURE ALARM		
E	VOLTAGE TRANSMITTER	PCV	PRESSURE CONTROL VALVE	VA	VIBRATION ALARM
EY	VOLTAGE SIGNAL CONVERTER	PDI	PRESSURE DIFFERENTIAL INDICATOR	VS	VIBRATION SWITCH
		PDS	PRESSURE DIFFERENTIAL SWITCH		
FA	FLOW ALARM	PDT	PRESSURE DIFFERENTIAL TRANSMITTER		
FCV	FLOW CONTROL VALVE	PI	PRESSURE INDICATOR		
FE	FLOW ELEMENT	PIS	PRESSURE INDICATING SWITCH		
FET	FLOW ELEMENT\TRANSMITTER	PIT	PRESSURE INDICATING TRANSMITTER		
FI	FLOW INDICATOR	PS	PRESSURE SWITCH		
FIT	FLOW INDICATING TRANSMITTER	PT	PRESSURE TRANSMITTER		
FS	FLOW SWITCH	PY	PRESSURE SIGNAL CONVERTER		
FT	FLOW TRANSMITTER				
FY	FLOW SIGNAL CONVERTER	SC	SPEED CONTROL		
		SCM	SPEED CONTROL MANUAL		
HK	MANUAL VARIABLE CONTROL				
HS	HAND SWITCH	TA	TEMPERATURE ALARM		
HSI	HAND SWITCH INDICATOR	TC	TEMPERATURE CONTROLLER		
		TCV	TEMPERATURE CONTROL VALVE		
II	CURRENT INDICATOR	TE	TEMPERATURE ELEMENT		
IA	CURRENT ALARM	TET	TEMPERATURE ELEMENT TRANSMITTER		
IS	CURRENT SWITCH	TI	TEMPERATURE INDICATOR		
IT	CURRENT TRANSMITTER	TIT	TEMPERATURE INDICATING TRANSMITTER		
IY	CURRENT SIGNAL CONVERTER	TIC	TEMPERATURE INDICATING CONTROLLER		
		TS	TEMPERATURE SWITCH		
JIT	POWER INDICATING TRANSMITTER	TSL	FREEZE STAT		
JY	POWER SIGNAL CONVERTER	TT	TEMPERATURE TRANSMITTER		
KC	TIME CLOCK				

FMS SYSTEM OPERATING CONSTRAINTS

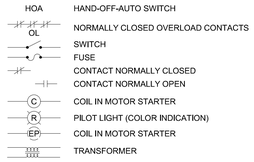
THE FMS CONTROL SYSTEM SHALL OPERATE WITHIN THE FOLLOWING SYSTEM CONSTRAINTS FOR CONTROL:

SUPPLY AIR DRYBULB TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
MIXED AIR DRYBULB TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
DUCT STATIC PRESSURE	+/- 0.1" W.C. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
SUPPLY/ RETURN AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
OUTSIDE AIR/ RELIEF AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
BUILDING PRESSURE	+/- 0.01" W.C. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
ROOM TEMPERATURE	+/- 1.0°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
ROOM AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
HUMIDITY LEVEL	+/- 2.5% R.H. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER TEMPERATURE	+/- 1.0°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER DIFFERENTIAL PRESSURE	+/- 1.0 PSI OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL

GENERAL INSTRUMENT OR FUNCTION SYMBOLS



LADDER DIAGRAM SYMBOLS



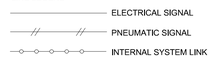
ABBREVIATIONS

IA	INSTRUMENTATION AIR
DDC	DIRECT DIGITAL CONTROL
C	COMMON VALVE PORT
F.O	FAIL OPEN
F.C	FAIL CLOSED
SR	SPRING RANGE
TR	THROTTLING RANGE
PH	PREHEAT
HR	HEAT RECOVERY
CPA	CONTROL POINT ADJUSTMENT
SPDT	SINGLE POLE DOUBLE THROW
DPDT	DOUBLE THROW DOUBLE POLE
DA	DIRECT ACTING
RA	REVERSE ACTING

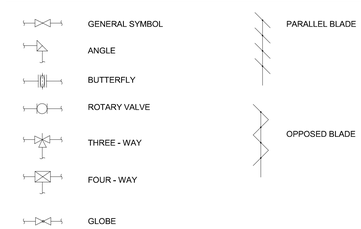
PROCESS CODES

TW	COOLING TOWER OR CONDENSER WATER
CHW	CHILLED WATER
SCHW	SECONDARY CHILLED WATER
HW	HOT WATER
SHW	SECONDARY HOT WATER
STM	STEAM

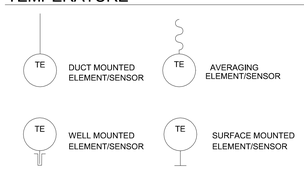
LINE LEGEND



CONTROL VALVE BODY/ DAMPER SYMBOLS

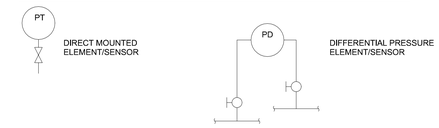


TEMPERATURE

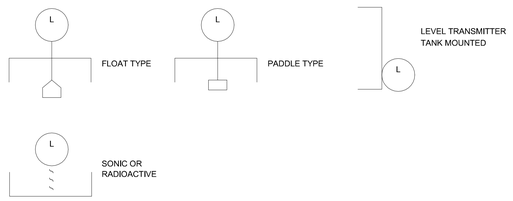


CURRENT

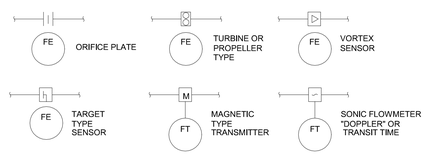
PRESSURE



LEVEL



FLOW



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CONSTRUCTION DOCUMENTS
MARCH 2024

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SHEET TITLE

MECHANICAL CONTROLS LEGEND

MI001

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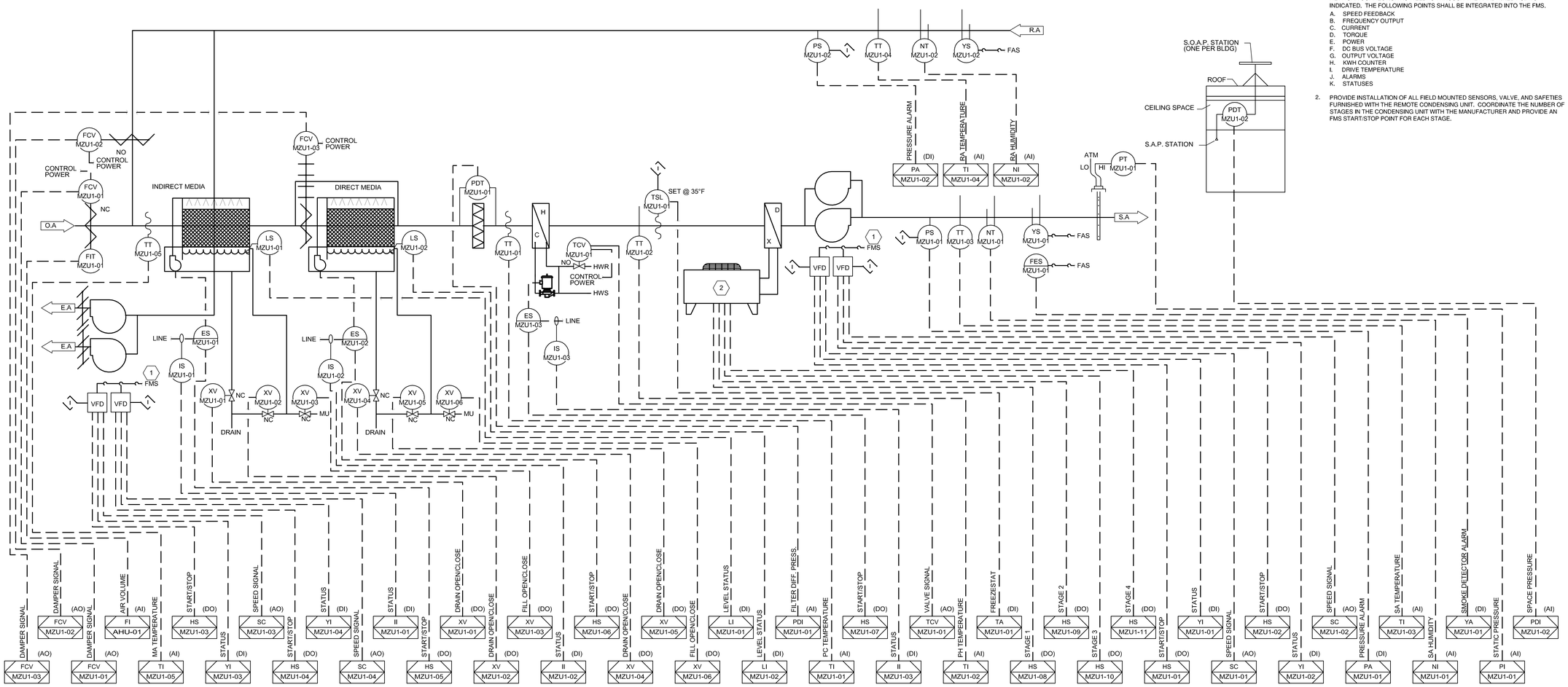
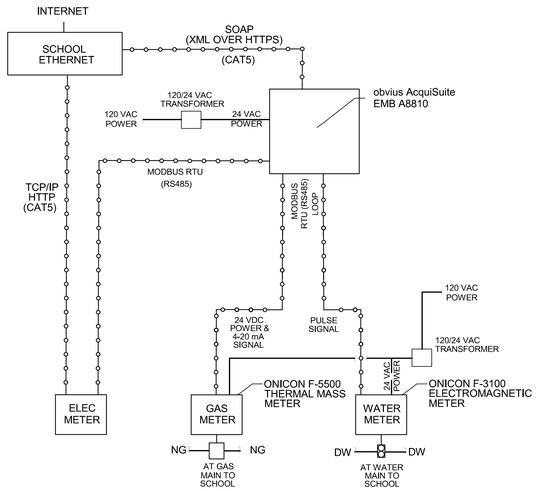
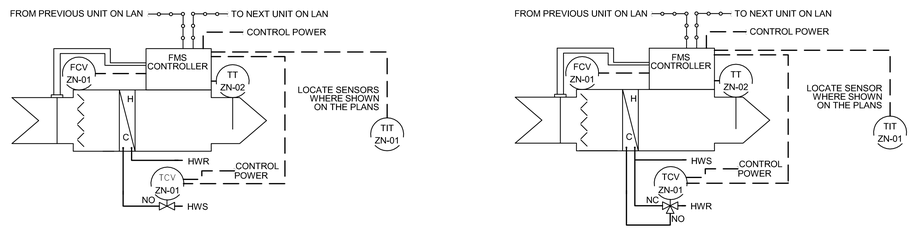
Farmington Preschool Academy

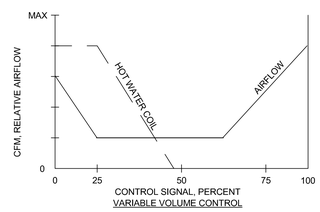


TYPICAL MULTI-ZONE AIR HANDLING UNIT CONTROL DIAGRAM



PSFA MEARSUREMENT & VERIFICATION METERING SYSTEM CONTROL DIAGRAM





EACH ZONE SHALL BE EQUIPPED WITH ITS OWN STAND ALONE CONTROLLER WHICH SHALL HAVE THE CAPABILITIES DESCRIBED IN THE SPECIFICATION. THE WIRING SHOWN IS PROVIDED AS A GENERAL DESCRIPTION AND IS NOT AS A DETAILED WIRING DIAGRAM WHICH VARIES WITH THE MANUFACTURER.

TYPICAL VAV ZONE WITH HW REHEAT CONTROL DIAGRAM

KEYNOTES

1. VFD'S SHALL BE CONNECTED TO THE FMS NETWORK THROUGH A BACNET NETWORK CONNECTION AS WELL AS THROUGH THE HARDWIRED POINTS INDICATED. THE FOLLOWING POINTS SHALL BE INTEGRATED INTO THE FMS.
   A. SPEED FEEDBACK
   B. FREQUENCY OUTPUT
   C. CURRENT
   D. TORQUE
   E. POWER
   F. DC BUS VOLTAGE
   G. OUTPUT VOLTAGE
   H. KWH COUNTER
   I. DRIVE TEMPERATURE
   J. ALARMS
   K. STATUSES
2. PROVIDE INSTALLATION OF ALL FIELD MOUNTED SENSORS, VALVE, AND SAFETIES FURNISHED WITH THE REMOTE CONDENSING UNIT. COORDINATE THE NUMBER OF STAGES IN THE CONDENSING UNIT WITH THE MANUFACTURER AND PROVIDE AN FMS START/STOP POINT FOR EACH STAGE.

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MECHANICAL CONTROLS DIAGRAMS

MI601

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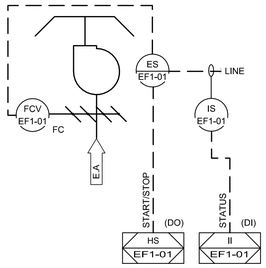
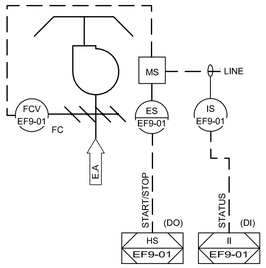
Farmington Preschool Academy

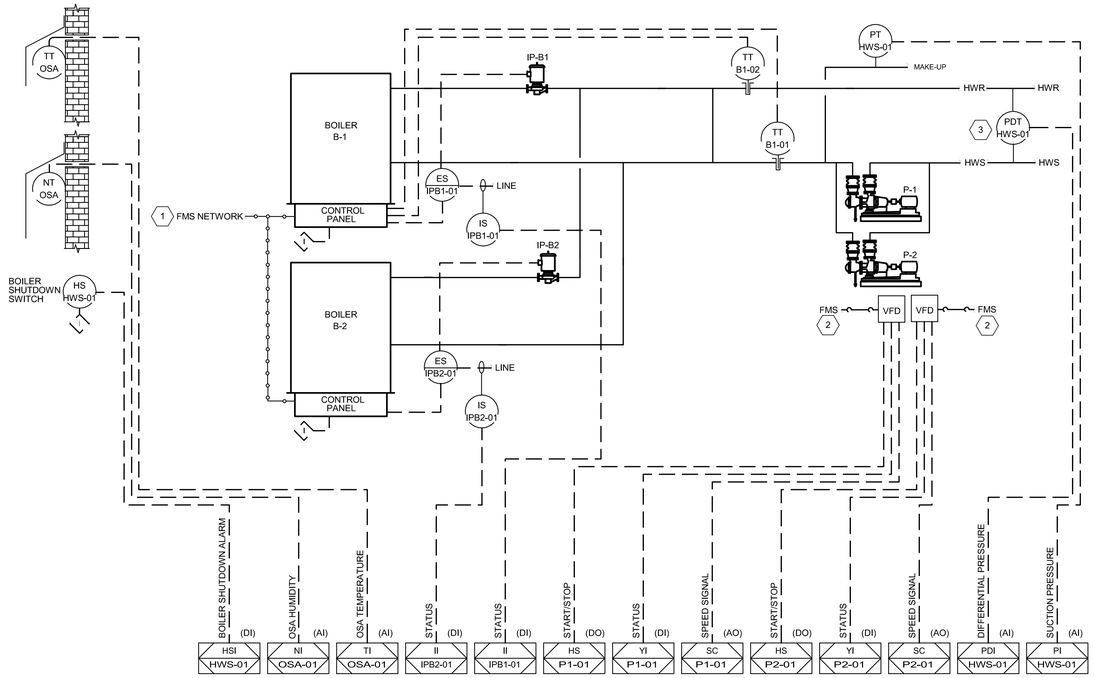


EXHAUST FAN EF-1 CONTROL DIAGRAM

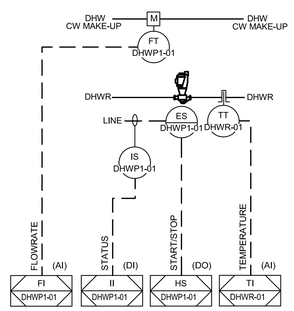
(TYPICAL FOR EF-2 THRU EF-8)



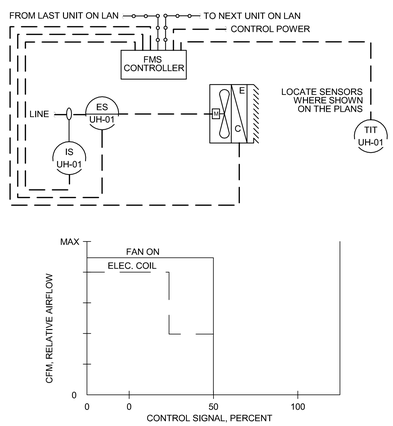
EXHAUST FAN EF-9 CONTROL DIAGRAM



HOT WATER SYSTEM CONTROL DIAGRAM

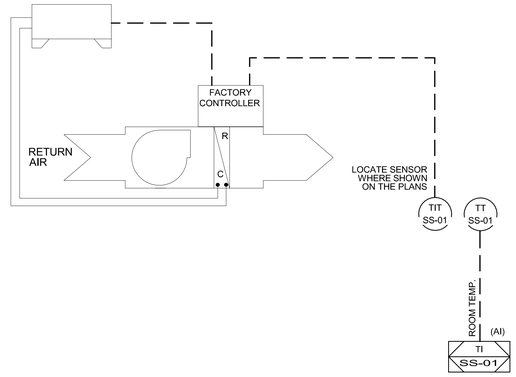


TYPICAL DOMESTIC HW PUMP CONTROL DIAGRAM 5

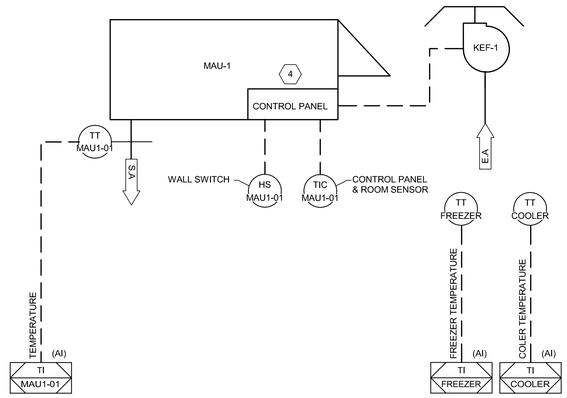


EACH UNIT HEATER SHALL BE EQUIPPED WITH ITS OWN STAND ALONE CONTROLLER WHICH SHALL HAVE THE CAPABILITIES DESCRIBED IN THE SPECIFICATION. THE WIRING SHOWN IS PROVIDED AS A GENERAL DESCRIPTION AND IS NOT AS A DETAILED WIRING DIAGRAM WHICH VARIES WITH THE MANUFACTURER.

TYPICAL ELECTRIC HEAT UNIT HEATER CONTROL DIAGRAM



TYPICAL SPLIT SYSTEM CONTROL DIAGRAM



KITCHEN SYSTEMS CONTROL DIAGRAM

KEYNOTES

1. THE BOILER SYSTEM SHALL BE CONNECTED TO THE FMS NETWORK THROUGH A DIRECT BACNET NETWORK CONNECTION AS INDICATED. THE FOLLOWING POINTS SHALL BE INTEGRATED INTO AND MONITORED BY THE FMS IF AVAILABLE FROM THE MANUFACTURER:
   - A. SYSTEM ENABLE/DISABLE COMMAND
   - B. OPERATING FIRING RATE
   - C. RUNTIME STATUS
   - D. SYSTEM ALARMS
   - E. PUMP ON/OFF COMMANDED STATUSES
   - F. BOILER OUTLET TEMPERATURE SETPOINT
   - G. BOILER OUTLET TEMPERATURE
   - H. BOILER INLET TEMPERATURE
   - I. SYSTEM HOT WATER SUPPLY SETPOINT COMMAND
   - J. SYSTEM HOT WATER SUPPLY TEMPERATURE
   - K. SYSTEM HOT WATER RETURN TEMPERATURE
2. VFD'S SHALL BE CONNECTED TO THE FMS NETWORK THROUGH A BACNET NETWORK CONNECTION AS WELL AS THROUGH THE HARDWIRED POINTS INDICATED. THE FOLLOWING POINTS SHALL BE INTEGRATED INTO THE FMS:
   - A. SPEED FEEDBACK
   - B. FREQUENCY OUTPUT
   - C. CURRENT
   - D. TORQUE
   - E. POWER
   - F. DC BUS VOLTAGE
   - G. OUTPUT VOLTAGE
   - H. KWH COUNTER
   - I. DRIVE TEMPERATURE
   - J. ALARMS
   - K. STATUSES
3. LOCATE ONE DIFFERENTIAL PRESSURE TRANSMITTER IN EACH PENTHOUSE.
4. PROVIDE INTERLOCK WIRING BETWEEN MAKE-UP UNIT, EXHAUST FAN, AND HOODS AS REQUIRED BY MANUFACTURER.
5. REFER TO PLUMBING DRAWINGS FOR QUANTITY AND LOCATION OF PUMPS, TEMPERATURE SENSORS, AND FLOW TRANSMITTERS.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	SB
CHECKED BY:	IM

SHEET TITLE

MECHANICAL CONTROLS DIAGRAMS

MI602

Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 2:48:09 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_lmsbougherty@bpce.com.rvt

SEQUENCE OF OPERATIONS

GENERAL

PROGRAMMING
THE FMS SHALL BE PROGRAMMED ACCORDING TO THE FOLLOWING SEQUENCE OF OPERATIONS INCLUDING ALL ENERGY REDUCTION OPERATIONS DESCRIBED IN THIS SEQUENCE AND IN THE PROJECT SPECIFICATIONS.

SYSTEM STATUS DISPLAY
THE FMS SHALL PROVIDE OPERATING STATUS FOR ALL SYSTEMS CONTROLLED BY THE FMS. THE DISPLAYS SHALL INCLUDE ALL POINTS INDICATED ON THE DRAWINGS AND ANY OTHERS REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATIONS. THE FMS SHALL BE ABLE TO INTEGRATE SYSTEM DIAGNOSTICS INTO CONTROL ACTION DECISIONS. THIS SHALL ALSO INCLUDE THE ABILITY TO DESIGNATE INDIVIDUAL UNITS AS BEING IN MAINTENANCE MODE TO AVOID GENERATING ALARMS. ALL SYSTEM CONTROL AND STATUS EVENTS SHALL BE RECORDED, AT THE OPERATOR'S SELECTION, IN THE FMS EVENT LOG TO FACILITATE TROUBLESHOOTING. ALL DETECTED ALARMS OR FAILURES SHALL INITIATE AN ALARM WITHIN THE FMS.

POWER FAILURE RECOVERY
THE FMS SHALL CONTAIN A POWER FAILURE RECOVERY MODE (OPERATOR ADJUSTABLE). THE POWER FAILURE RECOVERY CAPABILITY SHALL RETURN THE SYSTEM TO ITS LAST STATE (BEFORE THE BUILDING LOST POWER).

OCCUPANCY CONTROL
THE FMS SHALL BE SETUP WITH AN OCCUPANCY SCHEDULE FOR DIFFERENT AREAS OF THE BUILDING. THE OWNER SHALL BE INTERVIEWED BY THE CONTRACTOR AT START-UP TO ESTABLISH THESE SCHEDULES. SOME AREAS OF THE BUILDING MAY BE SETUP TO BE CONTINUOUSLY OCCUPIED.

EMERGENCY OUTDOOR AIR OVERRIDE
THE FMS SHALL HAVE AN EMERGENCY OUTDOOR AIR OVERRIDE SWITCH ON THE MAIN GRAPHIC AT THE OPERATOR WORKSTATION WHICH WILL ALLOW THE OPERATOR TO SHUTDOWN THE OUTSIDE AIR INTAKE DAMPERS AND RELIEF DAMPERS FOR ALL AIR HANDLING UNITS IN THE EVENT THAT TOXIC ODORS ARE DETECTED OUTSIDE. WHEN THE OUTSIDE AIR AND RELIEF DAMPERS FULLY CLOSE, THE RETURN AIR DAMPER SHALL FULLY OPEN. THE OUTSIDE AIR INTAKE DAMPERS FOR ALL UNITS SHALL REMAIN CLOSED UNTIL THE OPERATOR RESETS THE OVERRIDE.

MULTIZONE AIR HANDLING UNITS

MINIMUM OUTSIDE AIR CONTROL
THE OUTSIDE AIR VOLUME SHALL BE CONTROLLED BY THE FMS THROUGH THE OUTSIDE AIR FLOW MEASURING DAMPER WHICH MEASURES THE OUTSIDE AIR VOLUME. THE FMS SHALL NOT MODULATE THE OUTSIDE AIR DAMPER BELOW MINIMUM OUTSIDE AIR VOLUME SETPOINT. IF THE AIR HANDLING UNIT IS STOPPED, THE FMS SHALL CLOSE THE DAMPER. THE FMS SHALL TREND AND LOG THE OUTSIDE AIR VOLUME BEING BROUGHT IN BY THE AIR HANDLING UNIT.

MIXED AIR DAMPER INTERLOCKS
CONTROL SIGNALS FROM THE FMS SYSTEM SHALL MODULATE THE MIXED AIR DAMPERS. UPON INITIAL START-UP, THE FMS SYSTEM SHALL NOT BEGIN MODULATION OF THE MIXING DAMPERS FOR 5 MINUTES (ADJUSTABLE) TO ALLOW THE CONTROL LOOPS TO STABILIZE. THE MIXED AIR DAMPER MODULATION RATE SHALL BE LIMITED TO 5 MINUTES (ADJUSTABLE) FOR FULL MODULATION RANGE.

SUPPLY AIR TEMPERATURE SETPOINT CONTROL
THE FMS SHALL CONTROL THE AIR HANDLING UNIT TO MAINTAIN AN ADJUSTABLE SUPPLY AIR TEMPERATURE SETPOINT. THE TEMPERATURE SETPOINT SHALL BE RESET BASED ON THE DEMAND OF THE ZONE DAMPERS SERVED BY IT SO THAT AT LEAST ONE ZONE IS 90% OPEN AND STILL MAINTAINING THE ROOM TEMPERATURE SETPOINT. THE RESET RANGE SHALL BE BETWEEN 55°F AND 85°F (ADJUSTABLE) DRYBULB. THE SETPOINT FOR THE DIRECT/INDIRECT (DI) SECTION OF THE AIR HANDLING UNIT SHALL BE 2°F (ADJUSTABLE) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. WET BULB TEMPERATURES SHALL BE CALCULATED USING DRY BULB TEMPERATURE AND RELATIVE HUMIDITY LEVELS.

SUPPLY AIR TEMPERATURE CONTROL - COOLING
IF THE SYSTEM REQUIRES COOLING TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT SETPOINT, THE FMS SHALL CONTROL THE UNIT THROUGH THE FOLLOWING FOUR STAGES.

STAGE 1: IF THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE SUPPLY AIR TEMPERATURE THE FMS SHALL MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPERS TO MAINTAIN THE DI SECTION SUPPLY TEMPERATURE AT SETPOINT. THE DIRECT AND INDIRECT COOLING PUMPS SHALL BE OFF.

STAGE 2: IF THE DI SECTION SETPOINT CANNOT BE MAINTAINED AT SETPOINT WITH STAGE 1, THE FMS SHALL START STAGE 2. THE FMS SHALL START THE INDIRECT COOLING PUMP AND MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPERS TO MAINTAIN THE DI SECTION SUPPLY TEMPERATURE AT SETPOINT. AS MORE COOLING IS REQUIRED, THE FMS SHALL INCREASE THE AMOUNT OF OUTSIDE AIR BEING BROUGHT INTO THE UNIT. IF THE COOLING DEMAND DECREASES AND THE OUTSIDE AIR TEMPERATURE FALLS BELOW THE RETURN AIR TEMPERATURE SUCH THAT STAGE 1 CAN MEET THE DEMAND, THE FMS SHALL STOP STAGE 2. THE FMS SHALL MONITOR THE STATUS OF THE INDIRECT PUMP THROUGH A CURRENT SWITCH INSTALLED ON THE MOTOR. IF A PUMP FAILURE OCCURS, THE FMS SHALL INITIATE AN ALARM AND REMOVE STAGE 2 FROM THE STAGING CONTROL SEQUENCE. ONCE THE PUMP IS FIXED AND THE ALARM CONDITION IS CLEARED, STAGE 2 CONTROL SHALL BE REINSERTED INTO THE STAGING CONTROL SEQUENCE.

STAGE 3: IF THE DI SECTION SETPOINT CANNOT BE MAINTAINED AT SETPOINT WITH STAGE 2, THE FMS SHALL START STAGE 3. IF THE OUTSIDE AIR WETBULB TEMPERATURE IS LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT MINUS A 4°F (ADJUSTABLE) OFFSET, THE FMS SHALL START THE DIRECT COOLING PUMP AND MODULATE THE FACE AND BYPASS DAMPER TO MINTAIN THE SUPPLY AIR TEMPERATURE AT SETPOINT. THE FMS SHALL FULLY OPEN THE OUTSIDE AIR DAMPERS AND CLOSE THE RETURN AIR DAMPERS. IF THE COOLING DEMAND DECREASES SUCH THAT STAGE 2 CAN MEET THE DEMAND, OR IF THE RETURN HUMIDITY LEVEL RISES ABOVE 60% RH (ADJUSTABLE), THE FMS SHALL STOP STAGE 3. THE FMS SHALL MONITOR THE STATUS OF THE DIRECT PUMP THROUGH A CURRENT SWITCH INSTALLED ON THE MOTOR. IF A PUMP FAILURE OCCURS, THE FMS SHALL INITIATE AN ALARM AND REMOVE STAGE 3 FROM THE STAGING CONTROL SEQUENCE. ONCE THE PUMP IS FIXED AND THE ALARM CONDITION IS CLEARED, STAGE 3 CONTROL SHALL BE REINSERTED INTO THE STAGING CONTROL SEQUENCE. THE INDIRECT SECTION SHALL CONTINUE TO OPERATE DURING STAGE 3 OPERATION.

STAGE 4: IF THE DI SECTION SETPOINT CANNOT BE MAINTAINED AT SETPOINT WITH STAGE 3 OR IF THE OUTSIDE AIR WETBULB TEMPERATURE IS NOT WITHIN THE RANGE SPECIFIED, THE FMS SHALL START STAGE 4. THE FMS SHALL STOP THE DIRECT COOLING PUMP. THE INDIRECT SECTION SHALL CONTINUE TO OPERATE DURING STAGE 4 OPERATION. THE FMS SHALL CONTROL THE CONDENSING UNIT STAGES TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT SETPOINT. AS THE COOLING DEMAND DECREASES AND THE CONDENSING UNIT STAGES ARE OFF FOR A PERIOD OF 30 MINUTES (ADJUSTABLE), THE FMS SHALL RETURN TO STAGE 3 IF THE CONDITIONS OF STAGE 3 CAN BE REACHED. ONCE STAGE 4 IS STARTED, IT SHALL OPERATE FOR A MINIMUM OF ONE HOUR (ADJUSTABLE) BEFORE THE SYSTEM CAN SWITCH BACK TO STAGE 3 TO PREVENT SHORT CYCLING OF THE CONDENSING UNIT.

SUPPLY AIR TEMPERATURE CONTROL - HEATING
IF THE SYSTEM REQUIRES HEATING TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT SETPOINT, THE FMS SHALL POSITION THE OUTSIDE AIR AND RETURN AIR DAMPERS TO THE MINIMUM OUTSIDE AIR SETPOINT. THE FMS SHALL MODULATE THE HOT WATER COIL VALVE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT. THE DIRECT, INDIRECT PUMPS, AND CONDENSING UNIT SHALL BE OFF.

SUPPLY FAN CONTROL
THE SUPPLY FAN VFD SHALL BE STARTED AND STOPPED BY THE FMS SYSTEM BASED ON AN OCCUPANCY SCHEDULE FOR THE BUILDING PROGRAMMED INTO THE FMS. THE FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED PERIODS. IF DURING UNOCCUPIED PERIODS, ANY OF THE SPACE TEMPERATURES RISE ABOVE THE UNOCCUPIED COOLING SETPOINT OR FALL BELOW THE UNOCCUPIED HEATING SETPOINT, THE AIR HANDLING UNIT SHALL START AND OPERATE TO RAISE THE SPACE TEMPERATURE 2°F (ADJUSTABLE) BEFORE STOPPING. IF DURING UNOCCUPIED PERIODS, ANY OF THE SPACE OCCUPANCY SWITCHES ARE ACTIVATED, THE AIR HANDLING UNIT SHALL START AND OPERATE FOR A PERIOD OF TWO HOURS BEFORE STOPPING.

SUPPLY FAN VFD CONTROL
THE VFD SHALL BE MODULATED TO MAINTAIN THE SUPPLY AIR STATIC PRESSURE AT A SET POINT OF 1.0" W.G. (ADJUSTABLE). THE RAMP OF THE VFD SHALL BE ADJUSTED TO RESTRICT THE RATE OF CHANGE OF THE VFD OUTPUT TO SIXTY SECONDS FOR A ZERO TO ONE HUNDRED PERCENT CONTROL SIGNAL CHANGE.

SUPPLY FAN MONITORING
THE VFD OPERATION SHALL BE INDICATED TO THE FMS THROUGH A SET OF CONTACTS IN THE VFD. IF AN ALARM CONDITION IS DETECTED, THE FMS SHALL INITIATE AN ALARM.

RELIEF FAN VFD CONTROL
THE FMS SHALL MODULATE THE RELIEF FANS TO MAINTAIN THE BUILDING DIFFERENTIAL PRESSURE MEASURED IN THE SPACE AND THE OUTSIDE AIR PRESSURE AT A POSITIVE SPACE PRESSURE OF 0.05" W.C. (ADJUSTABLE) ANYTIME THE AIR HANDLING UNIT IS OPERATING. AS BUILDING PRESSURE INCREASES, THE FMS SHALL INCREASE THE SPEED OF THE RELIEF FANS. THE RAMP OF THE VFD SHALL BE ADJUSTED TO RESTRICT THE RATE OF CHANGE OF THE VFD OUTPUT TO SIXTY SECONDS FOR A ZERO TO ONE HUNDRED PERCENT CONTROL SIGNAL CHANGE.

RELIEF FAN MONITORING
THE VFD OPERATION SHALL BE INDICATED TO THE FMS THROUGH A SET OF CONTACTS IN THE VFD. IF AN ALARM CONDITION IS DETECTED, THE FMS SHALL INITIATE AN ALARM.

FILTER MONITORING
THE DIFFERENTIAL PRESSURE ACROSS THE FILTER SHALL BE MONITORED BY THE FMS THROUGH A DIFFERENTIAL PRESSURE TRANSMITTER. IF THE DIFFERENTIAL PRESSURE EXCEEDS SET POINT, THE FMS SHALL INITIATE AN ALARM.

FREEZESTAT
A FREEZESTAT SET AT 35°F LOCATED DOWNSTREAM OF THE HOT WATER COIL SHALL INITIATE AN ALARM AT THE FMS AND STOP THE SUPPLY FAN IF AN ALARM CONDITION IS DETECTED.

SMOKE DETECTORS
SMOKE DETECTORS LOCATED IN THE SUPPLY AIR AND RETURN AIR STREAMS, SHALL STOP THE FANS THROUGH THE FIRE ALARM SYSTEM IF AN ALARM CONDITION IS DETECTED. WHEN THE FANS ARE STOPPED, THE FMS SHALL POSITION THE DAMPERS TO THEIR NORMAL STATE.

PRESSURE SAFETY SWITCHES
SAFETY SWITCHES INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS FOR EACH UNIT SHALL ALARM THE FMS IF THE DUCT PRESSURE IS ABOVE THE HIGH ALARM SETPOINT. THE HIGH ALARM SETPOINT SHALL BE 150% OF THE NORMAL OPERATING STATIC OF THE SYSTEM. IF THE FMS SENSES AN ALARM CONDITION, THE FMS SHALL STOP THE SUPPLY AND RETURN FANS.

SUMP FILL AND DUMP CONTROL
THE FMS SHALL OPEN THE FILL VALVE ANYTIME THE SYSTEM IS NOT WINTERIZED AND THE SUMP LEVEL SWITCH IS INDICATES A LOW WATER CONDITION. ONCE THE LEVEL SWITCH REACHES THE FULL LEVEL, THE FMS SHALL CLOSE THE FILL VALVE. THE FMS SHALL OPEN THE DUMP VALVES BASED ON AN OPERATOR ADJUSTABLE TIME SCHEDULE PROGRAMMED INTO THE FMS TO REMOVE SOLIDS FROM THE WATER. ANYTIME THE DUMP VALVES ARE OPEN, THE FMS PREVENT THE FILL VALVE FROM OPENING AND THE PUMPS FROM OPERATING. THE OPERATOR SHALL HAVE THE ABILITY TO REMOTELY WINTERIZE THE SUMP SYSTEM THROUGH THE OPERATOR WORKSTATION. WHEN THE SYSTEM IS PLACE IN A WINTERIZED MODE, THE FMS SHALL OPEN THE DUMP VALVES FOR A PERIOD OF ONE HOUR, CLOSE THE FILL VALVE. THE SYSTEM SHALL REMAIN IN THE WINTERIZED MODE UNTIL RELEASED BY THE OPERATOR.

START/STOP OPTIMIZATION AND MORNING WARM-UP
THE FMS SHALL BE PROGRAMMED WITH A SELF-ADJUSTING START/STOP OPTIMIZATION SEQUENCE WHICH SHALL PROVIDE THE OPTIMUM START TIME FOR THE UNIT IN ORDER TO HAVE THE SPACE TEMPERATURE AT THE OCCUPIED SETPOINT WHEN SCHEDULED OCCUPANCY IS TO OCCUR EACH DAY. IF THE SPACES REQUIRE HEATING TO REACH THE OCCUPIED SPACE TEMPERATURE SETPOINTS, THE FMS SHALL OPERATE THE UNIT USING A MORNING WARM-UP CYCLE. DURING THE MORNING WARM-UP CYCLE, THE UNIT SHALL OPERATE WITH THE OUTSIDE AIR AND RELIEF AIR DAMPER CLOSED WITH THE RETURN AIR DAMPER FULLY OPEN. THE FMS SHALL RAISE SUPPLY AIR TEMPERATURE SETPOINT TO THE HEATING MAXIMUM TEMPERATURE AND OPERATE THE HOT VALVE TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT SETPOINT. ONCE THE SPACE TEMPERATURE OCCUPIED SETPOINTS ARE REACHED, THE UNIT SHALL RETURN TO NORMAL OCCUPIED CONTROL. DURING MORNING WARM-UP, THE TERMINAL UNITS SHALL OPERATE AT THEIR MAXIMUM AIRFLOW SETPOINTS UNTIL THEIR SPACE TEMPERATURE SETPOINTS ARE REACHED. TERMINAL UNITS WHICH DO NOT REQUIRE HEATING OR HAVE REACHED THEIR OCCUPIED SETPOINTS, SHALL OPERATE WITH THEIR DAMPERS CLOSED.

ZONE CONTROL
EACH ZONE CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER TO MAINTAIN THE SPACE TEMPERATURE CONDITIONS. IF THE ZONE REQUIRES COOLING, THE SUPPLY AIR DAMPER SHALL BE MODULATED BETWEEN THE MINIMUM AND MAXIMUM COOLING AIR FLOWS TO MAINTAIN THE SPACE TEMPERATURE AT THE COOLING SETPOINT OF 76°F (ADJUSTABLE) FOR OCCUPIED PERIODS AND 85°F (ADJUSTABLE) DURING UNOCCUPIED PERIODS. IF THE ZONE CALLS FOR HEATING, THE SUPPLY AIR DAMPER SHALL BE MODULATED TO A MINIMUM AND THE HEATING VALVE SHALL BE MODULATED OPEN TO MAINTAIN THE SPACE TEMPERATURE AT THE HEATING SETPOINT OF 72°F (ADJUSTABLE) FOR OCCUPIED PERIODS AND 55°F FOR UNOCCUPIED PERIODS. THE CONTROLLER SHALL LIMIT THE HEATING CONTROL VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT OR BELOW 90°F (ADJUSTABLE). IF ADDITIONAL HEATING IS REQUIRED WHEN THE VALVE IS OPERATING AT THE MAXIMUM DISCHARGE TEMPERATURE SETPOINT, THE SUPPLY AIR DAMPER SHALL BE MODULATED TO MEET THE ROOM TEMPERATURE REQUIREMENTS WHILE MAINTAINING THE MAXIMUM DISCHARGE TEMPERATURE AT SETPOINT. IF DURING AN UNOCCUPIED PERIOD THE SPACE OCCUPANCY SWITCH IS ACTIVATED, THE SPACE SHALL RETURN TO THE OCCUPIED SETPOINTS FOR A PERIOD OF TWO HOURS BEFORE SWITCH BACK TO THE UNOCCUPIED STATE.

HOT WATER PLANT

BOILER PLANT ENABLE
THE FMS SHALL ENABLE THE BOILER PLANT THROUGH A USER INPUT FROM THE OPERATOR WORKSTATION OR ANYTIME THE BUILDING REQUIRES HEAT WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 65°F (ADJUSTABLE). THE LEAD BOILER SHALL OPERATE WHENEVER THE BOILER WATER PLANT IS ENABLED.

HOT WATER TEMPERATURE CONTROL
THE FMS CONTROL SYSTEM SHALL RESET THE SECONDARY HOT WATER TEMPERATURE SETPOINT BASED ON THE OUTSIDE AIR TEMPERATURE CONDITIONS. AT AN OUTSIDE AIR TEMPERATURE OF 70°F (ADJUSTABLE), THE HOT WATER TEMPERATURE SETPOINT SHALL BE 110°F (ADJUSTABLE). AT AN OUTSIDE AIR TEMPERATURE OF 40°F (ADJUSTABLE), THE HOT WATER TEMPERATURE SETPOINT SHALL BE 130°F (ADJUSTABLE). THE FMS SHALL MONITOR AND TREND THE TEMPERATURES AND PRESSURES OF THE SYSTEM AS INDICATED ON THE CONTROL DIAGRAMS.

BOILER CONTROL
THE BOILER CONTROL SYSTEM SHALL MODULATE AND STAGE OF EACH OF THE BOILERS TO MAINTAIN THE SECONDARY HOT WATER SUPPLY TEMPERATURE AT SETPOINT BASED ON THE FACTORY RECOMMENDED STAGING CONFIGURATION.

BOILER ROTATION
AUTOMATIC ROTATION OF THE BOILERS SEQUENCE SHALL BE ALLOWED BASED ON THE MANUFACTURER'S STANDARD ROTATION SEQUENCE. THE BOILER CONTROL PANEL SHALL START THE ASSOCIATED BOILER PUMP ANYTIME THE BOILER IS OPERATING.

BOILER FAILURE DETECTION AND RECOVERY
THE FMS SHALL MONITOR THE ALARM AND STATUS CONDITIONS OF EACH BOILER THROUGH THE BACNET NETWORK CONNECTION. UPON SENSING A BOILER FAILURE, THE FMS SHALL INITIATE AN ALARM. THE NEXT BOILER IN THE SEQUENCE SHALL BE ENABLED (IF THE BOILER FAILS WHILE RUNNING OR TRYING TO START). THE FAILED BOILER SHALL BE DISABLED.

PRIMARY PUMP FAILURE DETECTION AND RECOVERY
THE FMS SHALL MONITOR THE STATUS OF EACH PRIMARY PUMP THROUGH A CURRENT SWITCH INSTALLED IN THE MOTOR STARTER AND THE COMMANDED STATUS OF THE PUMP THROUGH THE MODBUS NETWORK CONNECTION. UPON SENSING A PRIMARY PUMP FAILURE, THE FMS SHALL INITIATE AN ALARM.

SECONDARY HOT WATER DIFFERENTIAL PRESSURE SETPOINT CONTROL
THE FMS SHALL RESET THE SYSTEM DIFFERENTIAL PRESSURE SETPOINT USING A TRIM AND RESPOND LOGIC WITHIN THE RANGE OF 5 PSIG TO 15 PSIG ONCE THE MINIMUM HOT WATER TEMPERATURE SETPOINT IS REACHED. ONCE THE TEMPERATURE SETPOINT IS REACHED, THE DIFFERENTIAL PRESSURE SETPOINT FOR THE CONTROLLING ZONE SHALL BE TRIMMED BY 0.1 PSIG EVERY TWO MINUTES UNTIL A VALVE IN THE SYSTEM IS 50% OPEN. WHEN A VALVE IN THE SYSTEM RISES TO 80% OPEN, THE DIFFERENTIAL PRESSURE SETPOINT FOR THE CONTROLLING ZONE SHALL BE INCREASED BY 0.1 PSIG EVERY TWO MINUTES. ALL SETPOINTS SHALL BE ADJUSTABLE THROUGH THE OPERATOR WORKSTATION FOR EACH DIFFERENTIAL PRESSURE SENSOR.

SECONDARY HOT WATER PUMP CONTROL
EACH SET OF SECONDARY HOT WATER PUMPS SHALL OPERATE IN A LEAD/LAG CONFIGURATION. THE LEAD PUMP SHALL OPERATE ANYTIME THE HOT WATER SYSTEM IS ENABLED. THE FMS SHALL MODULATE THE PUMPS TO MAINTAIN THE SYSTEM DIFFERENTIAL PRESSURE AT SETPOINT AS MEASURED BY DIFFERENTIAL PRESSURE SENSORS. WITH JUST THE LEAD PUMP OPERATING, IF THE SPEED OF THE PUMP REACHES 100%, THE FMS SHALL START THE LAG PUMP AND OPERATE BOTH PUMPS AT THE SAME SPEED TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINT. WITH BOTH PUMPS OPERATING, IF THE SPEED OF THE PUMPS FALLS BELOW 40%, THE FMS SHALL STOP THE LAG PUMP AND OPERATE THE LEAD PUMP TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINT.

SECONDARY HOT WATER PUMP ROTATION
MANUAL OR AUTOMATIC ROTATION OF THE SECONDARY PUMP SEQUENCE SHALL BE ALLOWED. ROTATION TIME INTERVAL SHALL BE 30 DAYS (ADJUSTABLE), AND BE THROUGH A TIME AND DATE, OPERATOR INTERVENTION, OR EXTERNAL COMMUNICATED INPUT. THE APPLICATION SHALL ALSO PROVIDE A SETTING (OPERATOR SELECTABLE) TO ALLOW A FORCED ROTATION WHICH SHALL CAUSE THE SECONDARY PUMPS IN THE SEQUENCE TO BE IMMEDIATELY ENABLED /DISABLED TO COMPLY WITH THE NEW SEQUENCE OR A NORMAL ROTATION WHICH SHALL TAKES ADVANTAGE OF THE LOAD VARIATIONS IN THE SYSTEM TO ADJUST THE SEQUENCE OF SECONDARY PUMPS ENABLING AND DISABLING.

SECONDARY PUMP FAILURE DETECTION AND RECOVERY
THE FMS SHALL MONITOR THE VFD STATUS THROUGH A SET OF CONTACTS IN THE VFD. UPON SENSING A SECONDARY PUMP FAILURE, THE FMS SHALL LOCKOUT THAT PUMP AND IMMEDIATELY INITIATE THE START OF THE NEXT PUMP IN THE ROTATION SEQUENCE. WHEN A PUMP IS MARKED AS HAVING FAILED, THE FAILED PUMP SHALL BE TAKEN OUT OF THE SEQUENCE. THE NEXT PUMP IN THE SEQUENCE SHALL BE ENABLED (IF THE PUMP FAILS WHILE RUNNING OR TRYING TO START). THE FAILED PUMP SHALL BE DISABLED.

SECONDARY PUMP FAILURE RESET
WHEN AN INDIVIDUAL PUMPS FAILURE IS RESET AT THE OPERATOR WORKSTATION, THE FMS SHALL RE-INSERT THAT PUMP INTO THE SEQUENCE OF PUMPS. WHEN A SYSTEM FAILURE RESET IS PERFORMED, ALL PUMPS THAT WERE MARKED AS FAILED SHALL BE RE-INSERTED INTO THE SEQUENCE. AN OPERATOR CONFIGURED SETTING SHALL DETERMINE WHETHER THE FMS SHALL ENFORCE THE SEQUENCE IMMEDIATELY OR IF NORMAL PLANT CHANGES (ADDS AND SUBTRACTS) SYNCHRONIZE THE PLANT WITH THE NEW SEQUENCE. ALL FAILURES SHALL BE RESETTABLE THROUGH THE FMS OPERATOR WORKSTATION.

BOILER SYSTEM SHUTDOWN SWITCH
BOILER SHUTDOWN SWITCHES SHALL BE INSTALLED AT THE BOILER ROOM DOOR AND SHALL KILL POWER TO THE BOILERS WHEN ACTIVATED. THE FMS SHALL STOP THE SECONDARY PUMPS WHEN THE SWITCH IS ACTIVATED AND INITIATE AN ALARM.

SUCTION PRESSURE MONITORING
THE FMS SHALL MONITOR THE SUCTION PRESSURE OF THE SYSTEM. IF THE PRESSURE FALLS BELOW THE ALARM LEVEL, THE FMS SHALL INITIATE AN ALARM AND STOP THE SYSTEM.

GENERAL EXHAUST FANS

EXHAUST FAN CONTROL
EACH FAN SHALL OPERATE BASED ON THE OCCUPANCY SCHEDULE IN THE FMS. THE FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED PERIODS.

EXHAUST FAN MONITORING
THE FAN OPERATION SHALL BE INDICATED TO THE FMS THROUGH A CURRENT SWITCH INSTALLED ON THE MOTOR. IF A FAN FAILURE IS DETECTED, THE FMS SHALL STOP THE FAN AND INITIATE AN ALARM

EXHAUST FAN ISOLATION DAMPER CONTROL
EACH EXHAUST FAN DAMPER SHALL BE OPEN ANYTIME THE FAN IS OPERATING. IF THE FAN IS STOPPED, THE DAMPER SHALL CLOSE.

TYPICAL SPLIT SYSTEM

EACH UNIT SHALL BE PROVIDED WITH A FACTORY PACKAGED CONTROL SYSTEM WHICH SHALL CONTROL THE UNIT TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. THE FMS SHALL MONITOR THE SPACE TEMPERATURE THROUGH A SEPARATE SPACE TEMPERATURE SENSOR AND SHALL INITIATE AN ALARM IF THE SPACE TEMPERATURE RISES ABOVE THE SPACE HIGH TEMPERATURE ALARM SETPOINT.

KITCHEN MAKE-UP UNIT MONITORING

THE MAKE-UP UNIT SHALL BE CONTROLLED BY THE FACTORY PACKAGED CONTROLS TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT SETPOINT WHEN THE UNIT IS OPERATING. THE FMS SHALL MONITOR THE SUPPLY AIR TEMPERATURE FOR THE MAKE-UP UNIT. IF THE SUPPLY AIR TEMPERATURE FALLS BELOW THE LOW LEVEL SETPOINT, THE FMS SHALL INITIATE AN ALARM.

KITCHEN COLD STORAGE TEMPERATURE MONITORING

A TEMPERATURE SENSOR LOCATED IN THE WALK-IN REFRIGERATOR AND WALK-IN FREEZER SHALL BE PROVIDED AND CONNECTED TO THE FMS. THE FMS SYSTEM AND TEMPERATURE SENSORS SHALL BE CONFIGURED TO TREND TEMPERATURES ON AN HOURLY BASIS FOR 7 DAY PERIODS. THE TRENDS SHALL OVERWRITE OLD DATA WITH NEW DATA.

DOMESTIC HOT WATER PUMP

THE FMS SHALL OPERATE EACH PUMP ANYTIME HOT WATER FLOW IS SENSED BY THE FLOW TRANSMITTER IN THE HOT WATER MAKE-UP LINE AND THE HOT WATER RETURN TEMPERATURE IS BELOW SETPOINT. IF FLOW IS NO LONGER SENSED AND THE RETURN TEMPERATURE REACHES SETPOINT, THE PUMP SHALL STOP. THE FMS SHALL MONITOR THE STATUS OF THE PUMP THROUGH A CURRENT SWITCH INSTALLED ON THE MOTOR. IF A PUMP FAILURE IS DETECTED, THE FMS SHALL INITIATE AN ALARM.

ELECTRIC COIL UNIT HEATER

THE UNIT HEATER SHALL STAGE THE ELECTRIC COIL TO MAINTAIN THE SPACE TEMPERATURE AT A HEATING SETPOINT OF 55 °F (ADJUSTABLE). THE FAN SHALL ONLY OPERATE WHEN HEATING IS NEEDED BY THE SPACE. THE FMS SHALL MONITOR THE STATUS OF THE FAN THROUGH A CURRENT SWITCH. IF A FAN FAILURE IS DETECTED, THE FMS SHALL INITIATE AN ALARM.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	SB
CHECKED BY:	IM

SHEET TITLE
SEQUENCE OF OPERATIONS

MI603

ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS APPLY TO THIS PROJECT)

UPDATED: 09/07/2016

KEYNOTES

1. REFER TO SHEET E-002 FOR MOUNTING HEIGHTS FOR DEVICES. SOME DEVICES WILL REQUIRE FEILD COORDINATION PRIOR TO COMMENCEMENT OF ROUGH-IN BY CONTRACTOR TO ENSURE ADEQUATE MOUNTING FOR EACH DEVICE TYPE.
2. REFER TO ARCHITECTURAL DETAILS, ELEVATIONS BOTH INTERIOR AND EXTERIOR FOR MOUNTING HEIGHTS. HEIGHTS MAY VARY DEPENDING ON LOCATION OF DEVICE. REFER TO SHEET E-701 FOR MINIMUM MOUNTING INFORMATION AND SHEET SERIES "EL" FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. COMPLY WITH NFPA 70, 2017 ED.; NFPA 72 2016 ED.; AND NFPA 5000.

ABBREVIATIONS

ABBREV.	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ABOVE COUNTER
A/C	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CLOCK
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CR	CONTROLLED RECEPTACLE
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EC	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEEDER
FMS	FACILITY MANAGEMENT SYSTEM
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
G OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND.
HOA	HAND-OFF-AUTOMATIC.
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR.
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPS
N	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NORMAL
NM	NEW MEXICO
NO	NORMALLY OPEN
O/H	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	PHASE
PMCS	POWER MONITORING AND CONTROL SYSTEM
R	REMOVED/REMOVAL
RC	ROOM CONTROLLER
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP.	TYPICAL
UC	UNDER COUNTER
U/G	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF
XFER	TRANSFER
XFMR (TRANSF)	TRANSFORMER

REFERENCE TAGS

SYMBOL	DEFINITION
⬡	KEYED NOTE REFERENCE
VAV-9	MECHANICAL EQUIPMENT REFERENCE
+44"	DENOTES MOUNTING HEIGHT AFF
▭	KITCHEN EQUIPMENT REFERENCE
⬭	MEDICAL EQUIPMENT REFERENCE

EQUIPMENT NAMING CONVENTION

1, 2, 3, . . = SUBFED PANEL

A, B, C, . . = SEQUENCE OF PANELS OF THIS TYPE

0, 1, 2, 3, . . = FLOOR LEVEL (SB=SUB-BASEMENT, B=BASEMENT, M=MEZZANINE, P=PENTHOUSE)

- T = TRANSFORMER
- DB = DISTRIBUTION BOARD
- DP = DISTRIBUTION PANEL
- MSB= MAIN SWITCH BOARD
- MCC= MOTOR CONTROL CENTER
- I = ISOLATED PANELBOARD
- ATS = AUTOMATIC TRANSFER SWITCH
- PDU= POWER DISTRIBUTION UNIT
- UPS = UNINTERRUPTABLE POWER SUPPLY
- B = BUSWAY

- H = HIGH VOLTAGE PANELBOARD (480Y/277V)
- L = LOW VOLTAGE PANELBOARD (208Y/120V)

BLANK FOR NORMAL POWER
- E = EMERGENCY
- EL = EMERGENCY-LIFE SAFETY-BRANCH
- EC = EMERGENCY-CRITICAL-BRANCH
- EQ = EMERGENCY-EQUIPMENT-BRANCH

SES = SERVICE ENTRANCE SECTION NUMBER OR MAIN EMERG SWBD NUMBER

EXAMPLES:
A. SES1 (SERVICE ENTRANCE SECTION #1)
B. 1H1A (SERVED FROM SES#1, 480/277 NORMAL, LEVEL 1, FIRST BOARD)
C. 1EQH1A (SERVED FROM MAIN EMER SWBD #1, 480/277 EQUIP POWER, LEVEL 1, FIRST BOARD)

RACEWAY & CONDUCTORS

BRANCH CIRCUIT GENERAL INFORMATION:

BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR #12AWG COPPER AND 150 FEET FOR #10AWG COPPER; MEASURED ALONG CONDUCTORS ROUTING PATH. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 3%.

SYMBOL	DESCRIPTION
= GROUND = HOT/PHASE = NEUTRAL = SWITCH LEG	CONDUCTOR IDENTIFICATION SYMBOLS. REFER TO PLANS FOR COMBINATION USE. CONDUCTOR IDENTIFICATION MOSTLY USED IN HOMERUN LOCATION, BUT CAN ALSO BE USED IN BRANCH CIRCUITING WHERE APPLIED. GROUND CONDUCTORS WILL BE INSTALLED IN ALL RACEWAYS WHETHER SHOWN OR NOT.
LA-1	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
LA-1,3 LA-5,7,9	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). SYMBOL REPRESENTS A MULTI-BRANCH CIRCUIT. NUMBER OF CONDUCTORS IN HOMERUN WILL INCLUDE A SEPARATE NEUTRAL FOR EACH CIRCUIT PHASE CONDUCTOR. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
LA-1,3 LA-5,7,9	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
DOWN UP	CONDUIT TURNS
	CONDUIT STUBBED AND CAPPED
B	BUSWAY
G	GROUNDING CONDUCTOR
	CABLE TRAY - POWER AND TELECOMMUNICATIONS
T	TELECOMMUNICATIONS RACEWAY
D	DATA RACEWAY
VID	VOICE/DATA COMBINATION RACEWAY
FA	FIRE ALARM RACEWAY

GENERAL DRAWING SYMBOLS

- A / E4 — SECTION/ELEVATION LETTER OR DETAIL NUMBER
- 6 / E4 — DRAWING NUMBER WHERE DETAILED
- 6 / E3 E4 — SECTION/ELEVATION LETTER OR DETAIL NUMBER
- A / E3 E4 — DRAWING NUMBER WHERE DETAILED
- DRAWING NUMBER WHERE TAKEN
- NORTH — NORTH ARROW OR MATCH ARCHITECT'S
- 0 10' 20' 40' 80' 1" = 40'-0" — SCALE BAR OR MATCH ARCHITECT'S

DEMOLITION

SYMBOL	DESCRIPTION	NOTES
	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
R	REMOVE EXISTING RACEWAY IN ALL ACCESSIBLE AREAS. CAPPED AND ABANDONED IF IN UNACCESSIBLE AREA	
	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
EX	EXISTING CONDUIT TO BE REUSED	

DEVICES

DEVICE INDICATOR LETTER. "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES):

- BLANK FOR NORMAL POWER
- G = GFCI RATED
- IG = ISOLATED GROUND
- T = TAMPERPROOF
- WG= WEATHERPROOF (IN-USE COVER) AND GFCI
- WP = WEATHERPROOF (IN-USE COVER)
- CL = CLOCK
- TV = TELEVISION
- CR = CONTROLLED RECEPTACLE

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
X	IN FLOOR DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
X	IN FLOOR DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	IN FLOOR EMERGENCY DUPLEX RECEPTACLE, CONFIGURATION AS INDICATED ON PLANS		
X	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	COMBINATION DUPLEX RECEPTACLE AND COMMUNICATIONS FLOORBOX. DEVICE CONFIGURATION AS INDICATED ON PLANS.		
X	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING	FLUSH
X	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE		
X	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS		
X	SIMPLEX RECEPTACLE	WALL, UON	1
X	DUPLEX RECEPTACLE		
X	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	EMERGENCY DUPLEX RECEPTACLE		
X	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS		
	MULTI-OUTLET ASSEMBLY (SURFACE MOUNTED RACEWAY)	VARIES SEE PLANS	VARIES SEE PLANS
	COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS		
J	WALL MOUNTED CODE SIZE J-BOX	VARIES SEE PLANS	VARIES SEE PLANS
J	CODE SIZE JUNCTION BOX		
P	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)		
	PUSHBUTTON (EMERGENCY POWER OFF - EPO)		
PC	PHOTOCELL		
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	1
T	THERMOSTAT	WALL	
CB 30/3R	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
30/1	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
30/3R	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
0/1	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE SPEED UON		
1/30/3R	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
5	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER	N/A	N/A
F	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER		

EQUIPMENT

SYMBOL	DESCRIPTION
MSB	MAIN SWITCHBOARD. DASHED LINES INDICATE CLEARANCES.
DB	DISTRIBUTION BOARD OR PANEL. DASHED LINES INDICATE CLEARANCES.
H1A	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
L1A	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
MCC	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEARANCES.
T1A	DRY TYPE TRANSFORMER (15kVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE). IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
T	DRY TYPE TRANSFORMER (LESS THAN 15kVA), WITH NO EQUIPMENT TAG. SIZE, TYPE AND LOCATION NOTED ON PLANS.
VFD	VARIABLE FREQUENCY DRIVE
UPS-A	UNINTERRUPTABLE POWER SUPPLY. DASHED LINES INDICATE CLEARANCES.
ATS-1	AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEARANCES.
G	GROUND BAR

LIGHTING

REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE MODIFIED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.	VARIES	REFER TO LIGHTING SCHEDULE
3 A a	RECESSED MOUNTED LUMINAIRE. SMALL CASE "a" DENOTES SWITCHING, NUMBER "3" DENOTES BRANCH CIRCUITING. SYMBOL "A" DENOTES LUMINAIRE TYPE	CEILING	
	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS		
	LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEM MOUNTED		
	DOWN LIGHT LUMINAIRE; CEILING MOUNTED		
	WALL MOUNTED LUMINAIRES	WALL	
	TRACK MOUNTED LUMINAIRES	SURFACE	
	STRIP LUMINAIRE		
WALL CEILING	EXIT LUMINAIRE, SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS	VARIES	1 2
WALL CEILING	DOUBLE FACE EXIT LUMINAIRE, SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS		
WALL CEILING	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)		
	SINGLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
	DOUBLE HEAD, POLE MOUNTED LUMINAIRE		
$ X $ X	DEVICE INDICATOR LETTER. "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL 2 = DOUBLE POLE TOGGLE SWITCH 3 = THREE-WAY TOGGLE SWITCH 4 = FOUR-WAY TOGGLE SWITCH P = PILOT LIGHT TOGGLE SWITCH M = MOMENTARY CONTACT SWITCH K = KEY OPERATED SWITCH WP = WEATHERPROOF TOGGLE SWITCH T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION TW= TWIST TIMER SWITCH D = DLM DIMMER SWITCH DW = DLM TUNABLE WHITE CONTROL SWITCH 3B= 3 BUTTON DLM SWITCH 4B= 4 BUTTON DLM SWITCH DLM PUSH BUTTON OR DIMMER SWITCH, TYPE AND QUANTITY OF BUTTONS INDICATED ON PLANS	WALL	1
OS	WALL OR CORNER MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS		
VS	WALL OR CORNER MOUNTED VACANCY SENSOR; TYPE AS INDICATED ON PLANS		
OS	CEILING MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS	CEILING	SURFACE
VS	CEILING MOUNTED VACANCY SENSOR; TYPE AS INDICATED ON PLANS		
VS H	CEILING MOUNTED HIGH-BAY VACANCY SENSOR; TYPE AS INDICATED ON PLANS		
DL	DAY-LIGHTING SENSOR; TYPE AS INDICATED ON PLANS		
RC	ROOM CONTROLLER; TYPE AS INDICATED ON PLANS		
A B C D ETC.	SEQUENCE OF OPERATION ROOM TYPE CALL OUT.	REF. LTG. SEQ.	

UTILITIES

SYMBOL	DESCRIPTION
	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
X X X	OVERHEAD UTILITY AND OR SYSTEM DISTRIBUTION. 3PH = THREE PHASE 1PH = SINGLE PHASE P = ELECTRICAL PRIMARY S = ELECTRICAL SECONDARY T = TELECOMMUNICATION TV = TELEVISION E = EMERGENCY POWER ATSC = AUTOMATIC TRANSFER SWITCH CONTROL N = NEW EX = EXISTING
X X X	UNDERGROUND UTILITY AND OR SYSTEM DISTRIBUTION.
UT	UTILITY OR FACILITY TRANSFORMER
S	PAD MOUNTED SWITCH
CC	CONNECTION CABINET (UTILITY METER MOUNT)
PM	PRIMARY SITE METER ENCLOSURE
M	METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
CT	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
MH	MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
HH	HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
EG	ENGINE GENERATOR
TP	TELECOMMUNICATION PEDESTAL

FIRE ALARM

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
FACP FATC	FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET (EQUIPMENT NAMING CONVENTION PER PLANS)	WALL	-
FAA	FIRE ALARM ANNUNCIATOR PANEL	WALL	1
F	PULL STATION		
	FIREMAN'S TELEPHONE OUTLET		
F	HORN NOTIFICATION	WALL	1
S	SPEAKER NOTIFICATION		
C	CHIME NOTIFICATION		
	COMBINATION SPEAKER AND CHIME NOTIFICATION		
	SPEAKER/HORN WITH STROBE LIGHT		
	STROBE LIGHT ONLY		
B	BELL (GONG)		
P	PHOTOELECTRIC SMOKE DETECTOR	CEILING	SURFACE
I	IONIZATION SMOKE DETECTOR		
R/F	COMBINATION RATE OF RISE / FIXED TEMPERATURE		
F	FIXED TEMPERATURE; TEMPERATURE AS NOTED ON PLANS OR SPECS		
R	RATE OF RISE ONLY		
BT	BEAM TRANSMITTER	CEILING OR WALL	VARIES
BR	BEAM RECEIVER		
U	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
	DUCT DETECTOR	AT DUCT	SEE PLANS
	FIRE/SMOKE DAMPER		
PS	PRESSURE SWITCH	PIPE	VARIES
TS	TAMPER SWITCH		
FS	FLOW SWITCH		
PIV	POST INDICATOR VALVE		
M	MAGNETIC DOOR HOLDER	VARIES	SEE PLANS
R	CONTROL RELAY		
MM	MONITOR MODULE		
	REMOTE ALARM INDICATING LIGHT		
R	ADDRESSABLE/SUPERVISED RELAY		

ONE-LINE DIAGRAM

SYMBOL	DESCRIPTION
300 / 400	CIRCUIT BREAKER; TRIP SETTING/FRAME SIZE OR NO. OF POLES. SETTINGS AND PROTECTION AS NOTED ON PLANS
300 / 400	DRAWOUT CIRCUIT BREAKER (TRIP SETTING / FRAME SIZE)
300 / 400	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER (TRIP SETTING / FRAME SIZE)
T1A 75kVA K-4 208Y/120V ⅓ Δ 480V	TRANSFORMER, TRANSFORMER NAME, TRANSFORMER kVA RATING, PRIMARY VOLTAGE AND WIRING CONFIGURATION, SECONDARY VOLTAGE, K RATING (IF APPLICABLE)
3000/5	CURRENT TRANSFORMER, NUMBER "3000/5" DENOTES RATIO.
	POTENTIAL TRANSFORMER.
300A	DISCONNECT SWITCH. "300A" DENOTES AMPERAGE RATING
300A	FUSE. "300A" DENOTES AMPERAGE RATING
G	GROUND FAULT PROTECTION
ST	SHUNT TRIP OPERATOR
	GROUND CONNECTION
	TRANSFER SWITCH. SEE PLANS FOR TYPE OF SWITCH
	SURGE ARRESTOR
SPD	SURGE PROTECTIVE DEVICE
KW	KILOWATT METER
M	ELECTRONIC METER
K1	KIRK KEY INTERLOCK No.1
R1	RELAY No.1
AS	AMMETER SWITCH
A	AMMETER
VS	VOLTMETER SWITCH
V	VOLTMETER
	DELTA CONNECTED
	WYE CONNECTED
	GENERATOR
VFD	VFD CONNECTION
S	MOTOR CONNECTION
UPS	UPS

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

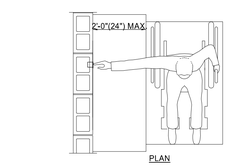
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

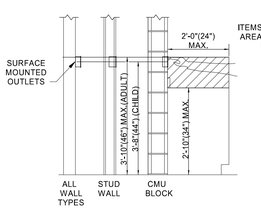
SHEET TITLE
ELECTRICAL LEGEND

E-001

GENERAL NOTES

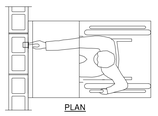
A. REFER TO ARCHITECTURAL DETAILS, ELEVATIONS, BOTH INTERIOR AND EXTERIOR, FOR EACH TYPE OF DEVICE, MOUNTING HEIGHTS MAY VARY DEPENDING ON ROUGH-IN NEEDS. CONTRACTOR WILL VERIFY ALL DEVICE TYPE MOUNTING PRIOR TO COMMENCEMENT OF ANY WORK.
B. CHILD MOUNTING HEIGHTS WILL GOVERN IN MOST AREAS. COORDINATE WITH ARCHITECT PRIOR TO COMMENCEMENT OF ROUGH-IN.

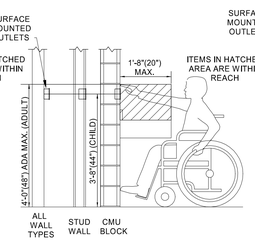




SECTION
OBSTRUCTED SIDE REACH

REFER TO SHEET SERIES "G" FOR MOUNTING HEIGHT FOR ALL AGES AND ADDITIONAL INFORMATION.





SECTION
OBSTRUCTED FORWARD REACH

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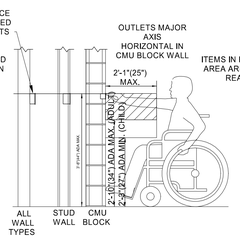
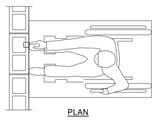
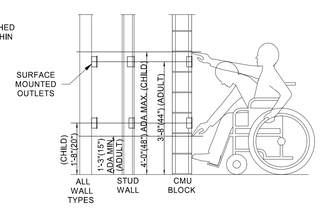


SECTION

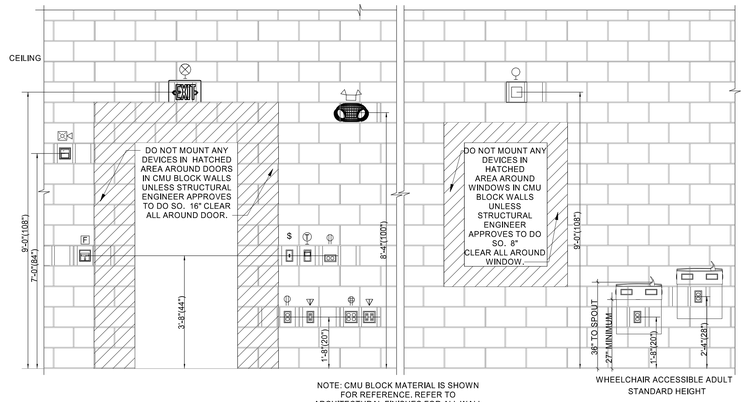
REFER TO SHEET SERIES "G" FOR MOUNTING HEIGHT FOR ALL AGES AND ADDITIONAL INFORMATION.





SECTION
UNOBSTRUCTED FORWARD AND SIDE REACH

REFER TO SHEET SERIES "G" FOR MOUNTING HEIGHT FOR ALL AGES AND ADDITIONAL INFORMATION.



ELEVATION
DEVICE OUTLET MOUTING

NOTE: CMU BLOCK MATERIAL IS SHOWN FOR REFERENCE. REFER TO ARCHITECTURAL FINISHES FOR ALL WALL TYPES THROUGHOUT THE BUILDING.

WHEELCHAIR ACCESSIBLE ADULT STANDARD HEIGHT

REFER TO SHEET SERIES "G" FOR MOUNTING HEIGHT FOR ALL AGES AND ADDITIONAL INFORMATION.

A1 ADA DEVICE MOUNTING DETAILS

SCALE: 1/2" = 1'-0"

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SHEET TITLE

ADA & TECHNOLOGY ELECTRICAL LEGEND

E-002

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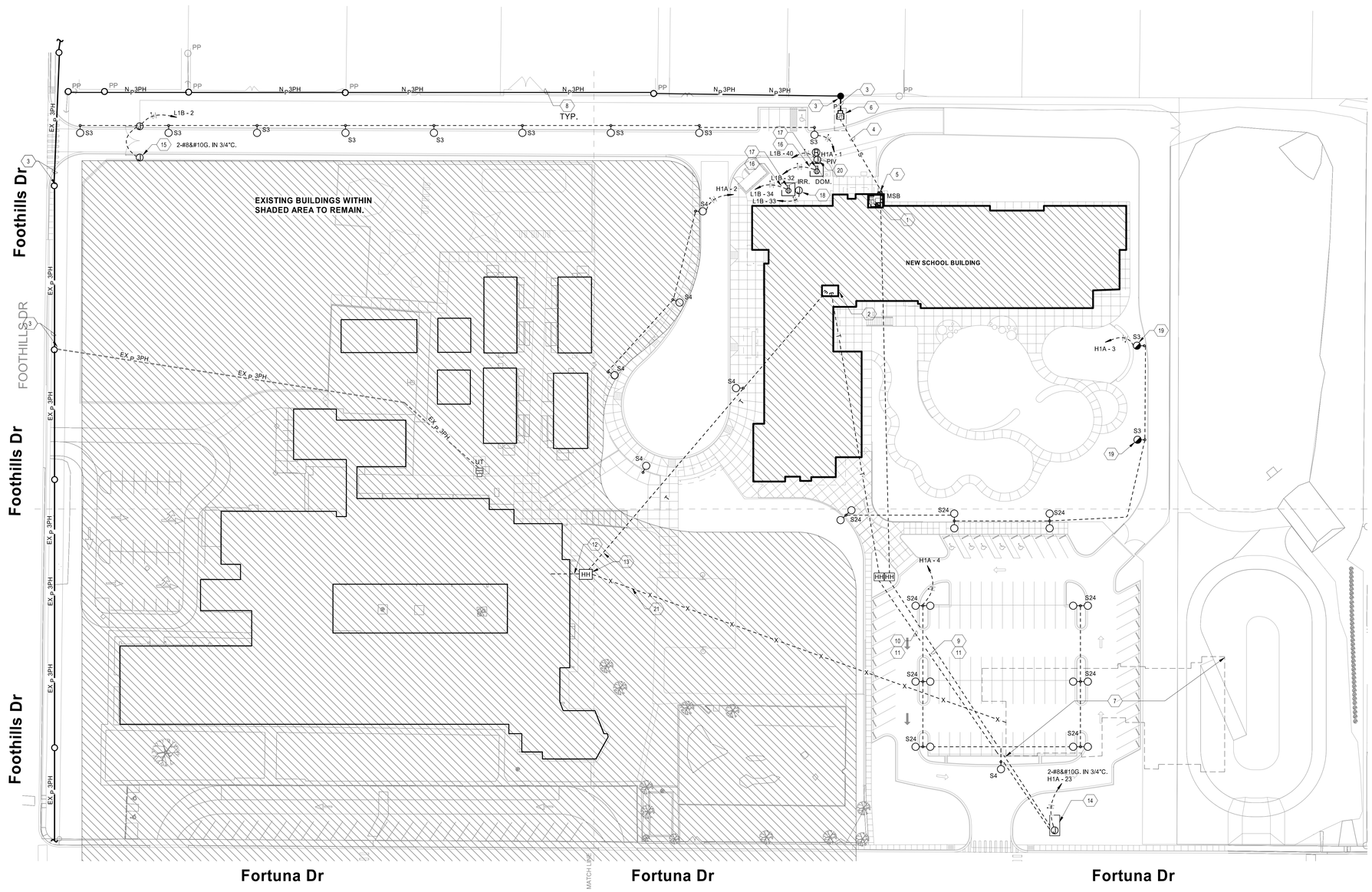
Farmington Preschool Academy



A1 ELECTRICAL SITE PLAN
1" = 40'-0"

0' 20' 40' 80'

GENERAL NOTES

A. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOM EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
B. REFER TO SHEET SERIES "C", "AS", "M", "T" AND "P" FOR OTHER UTILITIES WITHIN ROUTING PATH OF ELECTRICAL RACEWAYS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ANY UTILITIES SHOWN ON THIS SHEET PRIOR TO COMMENCEMENT OF ANY WORK FOR BEST LOCATION OF THESE UTILITIES.
C. REFER TO SHEET E-601 FOR ELECTRICAL EQUIPMENT, CONDUIT SIZE AND ADDITIONAL INFORMATION ON ELECTRICAL DISTRIBUTION SYSTEM. REFER TO SHEET SERIES "T" FOR TELECOMMUNICATION ROOMS, EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
D. ALL EXTERIOR BUILDING LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK LOCATED IN THE ELECTRICAL ROOM WHERE PANEL CIRCUITING THOSE LUMINAIRES IS LOCATED. THE EXTERIOR BUILDING LUMINAIRES AND SITE LUMINAIRES MUST BE CONTROLLED SEPARATELY. ALL SITE POLES TO BE #8's.
E. WHERE CONDUITS CROSS A DRIVEWAY, ROADWAY OR PARKING AREA, CONDUITS SHALL BE CONCRETE ENCASED.
F. REFER TO SHEET E-701 FOR LUMINAIRE SCHEDULE.
G. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ARCHITECT FOR CLARIFICATION, PRIOR TO COMMENCING ANY WORK.
H. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS PRIOR TO COMMENCEMENT OF ANYWORK.

KEYNOTES

1. ELECTRICAL ROOM. REFER TO "EP" SHEET SERIES FOR ELECTRICAL EQUIPMENT LAYOUT.
2. MDF ROOM. REFER TO SHEET SERIES "TELECOM DESIGN SHEETS" FOR ELECTRICAL EQUIPMENT LAYOUT.
3. UTILITY TO PROVIDE NEW POWER POLE FOR UNDERGROUND DISTRIBUTION. UNDERGROUND PRIMARY DISTRIBUTION FROM POWER POLE PER UTILITY DIRECTION TO NEW UTILITY TRANSFORMER LOCATION. COORDINATE WITH UTILITY REPRESENTATIVE AND SERVICE GUIDE PRIOR TO COMMENCEMENT OF ANY WORK FOR CONTRACTOR WORK RESPONSIBILITIES.
4. NEW SECONDARY FEEDER FROM UTILITY TRANSFORMER TO BUILDING SERVICE DISCONNECT SWITCH. REFER TO SHEETS E-601 AND E-601 FOR ADDITIONAL INFORMATION. COORDINATE UG PATHWAY WITH PLUMBING PLAN PS101. MAINTAIN REQUIRED HORIZONTAL CLEARNCES.
5. ELECTRICAL SERVICE DISCONNECT FOR BUILDING. REFER TO SHEET EP101B AND E-601 FOR ADDITIONAL INFORMATION.
6. NEW UTILITY TRANSFORMER LOCATION. CONTRACTOR TO PROVIDE CONCRETE PAD PER UTILITY COMPANY SERVICE INSTALLATION GUIDE AND/ OR COORDINATION WITH UTILITY REPRESENTATIVE.
7. EXISTING BUILDING TO BE REMOVED ALONG WITH ALL ELECTRICAL AND FIRE ALARM SYSTEMS BACK TO SYSTEM EQUIPMENT SOURCE. BUILDING WILL BE REMOVED AT SUCH TIME IN CONSTRUCTION THAT IT ALLOWS FOR NEW SITE WORK. REMOVAL OF EXISTING ELECTRICAL SERVICE TO BE COORDINATED WITH FEUS. REFER TO SHEET SERIES "A" FOR ADDITIONAL INFORMATION.
8. UTILITY COMPANY WILL UPGRADE EXISTING SINGLE PHASE OVERHEAD DISTRIBUTION TO THREE PHASE.
9. PROVIDE 1" CONDUIT WITH PULLSTRING FOR MARQUEE SIGN POWER TO ELECTRICAL ROOM 233, PANEL 'H1A'.
10. PROVIDE 2" CONDUIT WITH PULLSTRING FOR MARQUEE SIGN DATA TO MDF ROOM 216.
11. INSTALLATION OF UNDERGROUND CONDUIT FROM HANDHOLES TO MARQUEE SIGN TO BE COMPLETED AFTER DEMOLITION OF EXISTING BUILDING IS COMPLETED. COORDINATE PHASING OF WORK WITH ARCHITECT.
12. EXISTING FIBER LINE CONDUIT EXITING COUNTRY CLUB SCHOOL TO BE INTERCEPTED. COORDINATE EXACT LOCATION IN FIELD. REFER TO KEYNOTE '13' AND '21' FOR ADDITIONAL INFORMATION.
13. INTERCEPT EXISTING FIBER LINE CONDUIT AND PROVIDE HANDHOLE. EXTEND (1) 4" CONDUIT TO NEW SCHOOL MDF ROOM 216. STUB CONDUIT UP 6" INTO BOTTOM RIGHT CORNER OF ROOM. COORDINATE LOCATION OF EXISTING CONDUIT, HANDHOLE INSTALLATION LOCATION, PHASING OF ALL ASSOCIATED WORK AND CONDUIT ROUTING WITH SCHOOL DISTRICT IT REPRESENTATIVE, NCI, AND ARCHITECT.
14. APPROXIMATE LOCATION OF MARQUEE SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT.
15. POWER FOR MOTORIZED GATE. COORDINATE EXACT LOCATION WITH ARCHITECT AND REQUIREMENTS WITH MANUFACTURERS SPECIFICATIONS. PROVIDE 2-#10 & # 10G. IN 1" CONDUIT.
16. BACKFLOW PREVENTER HOT BOX ENCLOSURE. COORDINATE REQUIREMENTS WITH CIVIL AND OWNER PRIOR TO ROUGH IN.
17. 120V RECEPTACLE FOR HEATED ENCLOSURE. REFER TO DETAIL "LI-501/A1" FOR TERMINATION DETAILS.
18. PEDESTAL MOUNTED IRRIGATION CONTROLLER. PROVIDE 3/4" RIGID PVC SWEEP ELL FOR 120V POWER. REFER TO DETAIL "LI-501/C1" FOR TERMINATION DETAILS.
19. UL924 EMERGENCY BATTERY PACK FOR EGRESS FIXTURES INDICATED. COORDIANTE WITH VENDOR.
20. POST INDICATOR VALVE. COORDINATE FA REQUIREMENTS.
21. EXISTING FIBER LINE CONDUIT TO BE ABANDONED AFTER EXISTING PRESCHOOL DEMOLITION AND EXISTING FIBE LINE REROUTED. COORDINATE CONDUIT REMOVAL WITH OWNER AND ARCHITECT. COORDINATE PHASING OF ALL ASSOCIATED WORK WITH ARCHITECT AND OWNER. REFER TO KEYNOTE '12' AND '13' FOR ADDITIONAL INFORMATION.

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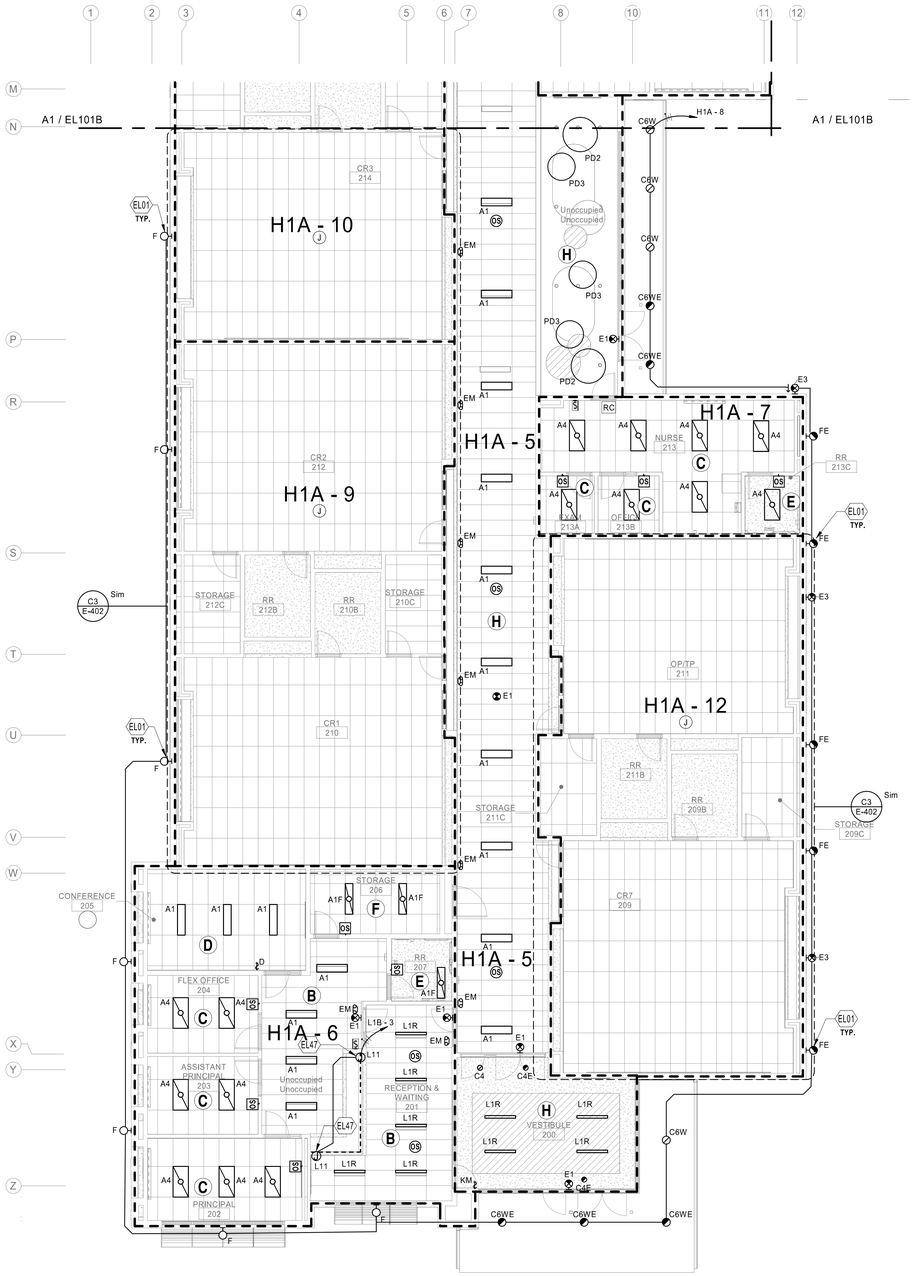
SHEET TITLE
ELECTRICAL SITE PLAN

ES101

Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:22 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy__MIProsper.rvt



KEYNOTES

EL01 ALL EXTERIOR BUILDING MOUNTED LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK PANEL LOCATED IN THE MAIN ELECTRICAL ROOM . TIME CLOCK WILL HAVE PHOTOCELL FOR CONTROL OF EXTERIOR

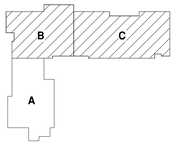
EL47 JBOX FOR LED TAPE LIGHTS AT LOWER RECEPTION DESK. COORDINATE REQUIREMENTS WITH VENDOR AND ARCHITECT.

GENERAL NOTES

A. ALL EXIT SIGNS ARE TYPE "E1" (SINGLE FACE) "E2" (DOUBLE FACE) OR "EG" UNLESS OTHERWISE NOTED. ALL EXIT SIGNS WILL BE CONNECTED TO CIRCUIT SERVING THE ROOM THEY ARE LOCATED IN AND FROM NO OTHER CIRCUIT. AT ALL "EG" LOCATIONS A HIGH ABUSE SHIELD WILL BE PROVIDED.
B. FOR ELECTRICAL LUMINAIRE SCHEDULE, SEE SHEET E-701.
C. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOMS AND ELECTRICAL EQUIPMENT LAYOUT.
D. FOR LIGHTING SEQUENCE OF OPERATION, SEE E-603 SHEET.
E. FOR LUMINAIRE MOUNTING, REFER TO DETAILS ON E-501 SHEET.
F. REFER TO SHEET SERIES "A" FOR ADDITIONAL CEILING GRID MOUNTING SUPPORT INFORMATION. ALL LUMINAIRES WILL BE SECURELY SUPPORTED SEPARATELY FROM CEILING GRIDS TO CEILING STRUCTURE.
G. FOR EXTERIOR LIGHTING ELEVATIONS, SEE ARCHITECTURAL SHEET SERIES A-200.
H. ALL CORRIDOR AND LOBBY LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK. REFER TO SHEET SERIES "EP" FOR LOCATIONS.
I. ALL EXTERIOR BUILDING MOUNTED LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK. REFER TO SHEET SERIES "EP" FOR LOCATIONS.THE EXTERIOR BUILDING MOUNTED LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES MUST BE CONTROLLED SEPARATELY.
J. ALL LUMINAIRES IN DASHED AREA WILL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED. CONTROL IS INDICATED OR NOTED.
K. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
L. REFER TO SERIES A-200 SHEETS FOR THE MOUNTING HEIGHTS OF EXTERIOR BUILDING MOUNTED LUMINAIRES.

A1 LIGHTING FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

N.T.S.

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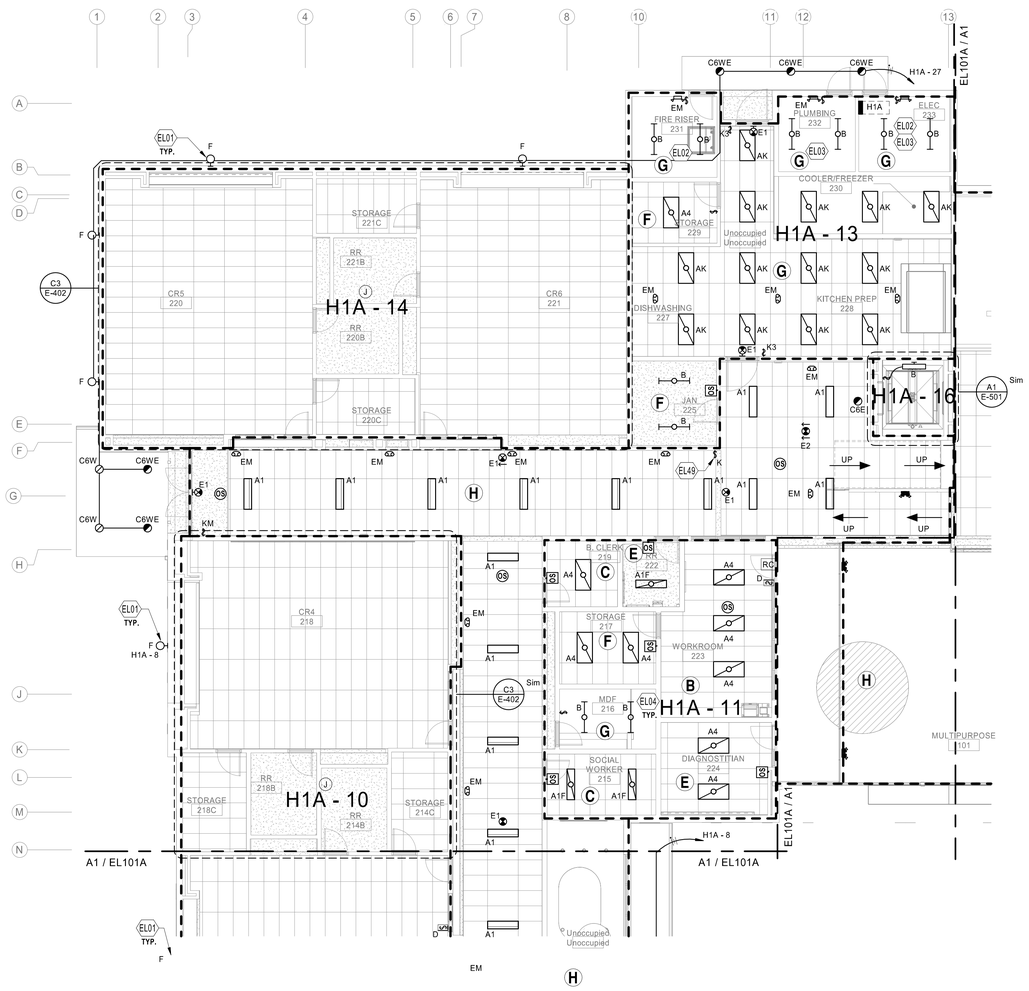
LIGHTING FLOOR PLAN - GROUND LEVEL 'A'

EL101A

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:26 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy__MJProsper.rvt

Farmington Preschool Academy



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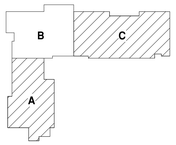
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

N.T.S.

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G. FOR EXTERIOR LIGHTING ELEVATIONS, SEE ARCHITECTURAL SHEET SERIES A-200.
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J. ALL LUMINAIRES IN DASHED AREA WILL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED. CONTROL IS INDICATED OR NOTED.
K. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
L. REFER TO SERIES A-200 SHEETS FOR THE MOUNTING HEIGHTS OF EXTERIOR BUILDING MOUNTED LUMINAIRES.

KEYNOTES

EL01 ALL EXTERIOR BUILDING MOUNTED LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK PANEL LOCATED IN THE MAIN ELECTRICAL ROOM . TIME CLOCK WILL HAVE PHOTOCELL FOR CONTROL OF EXTERIOR

EL02 REFER TO SHEET SERIES "M" AND "P" FOR MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK, AND PIPING LAYOUT IN THIS ROOM. CONTRACTOR TO STEM MOUNT AND UTILIZE UNISTRUT NEAR OR UNDER DUCTWORK SO THAT LOCATION IS AWAY FROM OBSTRUCTION, IF NECESSARY.

EL03 REFER TO SHEET SERIES "EP" FOR ELECTRICAL EQUIPMENT LAYOUT IN THIS ROOM. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS CENTERED AND AWAY FROM OBSTRUCTION.

EL04 FOR LUMINAIRE LOCATIONS, COORDINATE WITH TELECOMMUNICATIONS RACK PLACEMENT. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS AWAY FROM OBSTRUCTION AND BOTTOM OF LUMINAIRE IS FLUSH WITH BOTTOM OF CABLE TRAY.

EL49 KEYED SWITCH FOR STAIRWELL LIGHTING. COORDINATE PLACEMENT WITH ARCHITECT.

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ELECTRICAL ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
LIGHTING FLOOR PLAN - GROUND LEVEL 'B'

EL101B

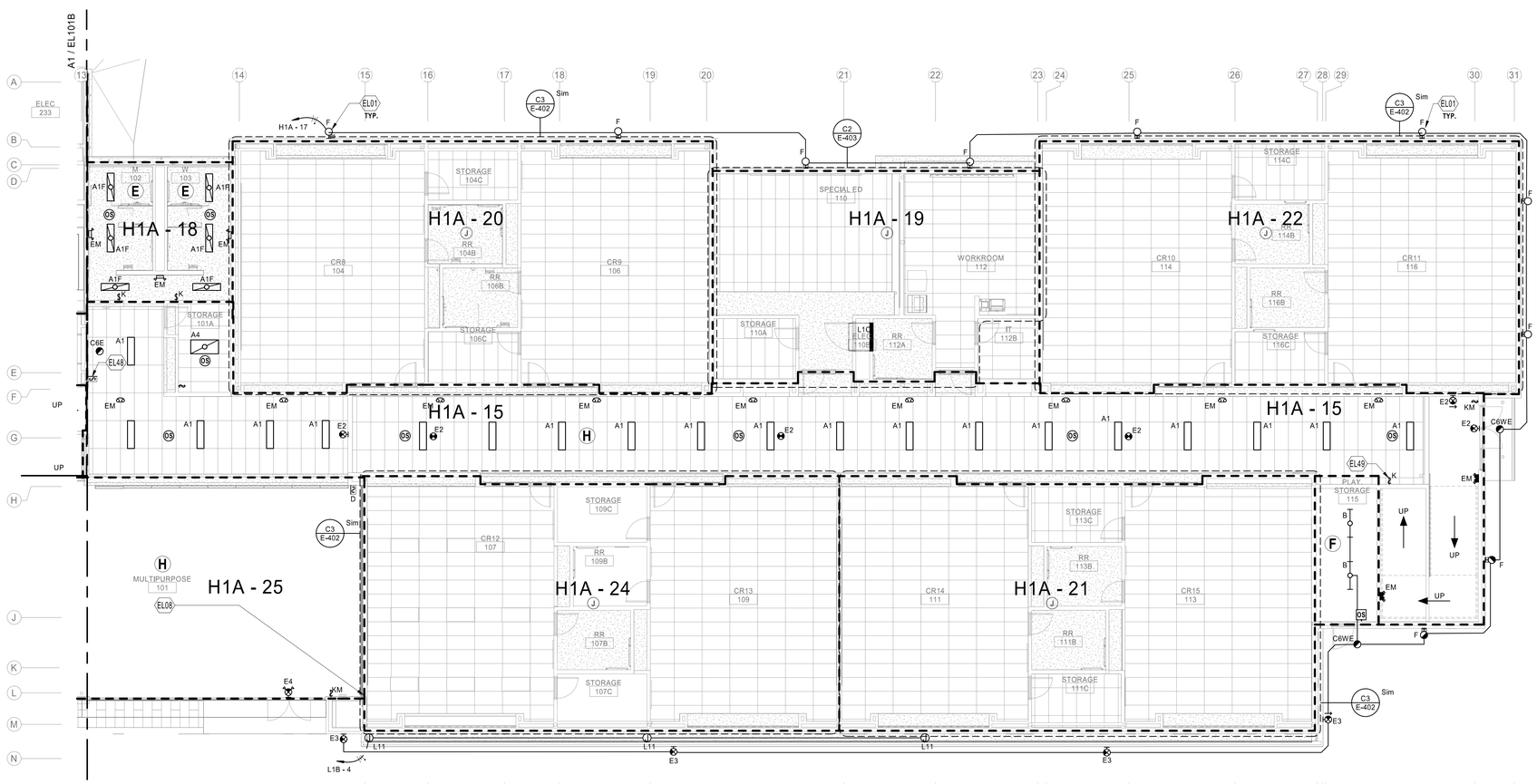
Bridgers & Paxton Project No: 8819 3/21/2024 2:06:30 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy__MJProsper.rvt
Farmington Preschool Academy

KEYNOTES

EL01	ALL EXTERIOR BUILDING MOUNTED LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK PANEL LOCATED IN THE MAIN ELECTRICAL ROOM . TIME CLOCK WILL HAVE PHOTOCELL FOR CONTROL OF EXTERIOR
EL08	REFER TO SHEET EL102C FOR LIGHTING ON THIS CEILING.
EL48	SWITCH FOR MULTIPURPOSE ROOM. COORDINATE LOCATION WITH ARCHITECT AND REQUIREMENTS WITH VENDOR.
EL49	KEYED SWITCH FOR STAIRWELL LIGHTING. COORDINATE PLACEMENT WITH ARCHITECT.

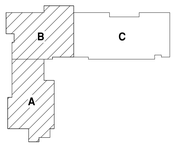
GENERAL NOTES

A. ALL EXIT SIGNS ARE TYPE "E1" (SINGLE FACE) "E2" (DOUBLE FACE) OR "EG" UNLESS OTHERWISE NOTED. ALL EXIT SIGNS WILL BE CONNECTED TO CIRCUIT SERVING THE ROOM THEY ARE LOCATED IN AND FROM NO OTHER CIRCUIT. AT ALL "EG" LOCATIONS A HIGH ABUSE SHIELD WILL BE PROVIDED.
B. FOR ELECTRICAL LUMINAIRE SCHEDULE, SEE SHEET E-701.
C. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOMS AND ELECTRICAL EQUIPMENT LAYOUT.
D. FOR LIGHTING SEQUENCE OF OPERATION, SEE E-603 SHEET.
E. FOR LUMINAIRE MOUNTING, REFER TO DETAILS ON E-501 SHEET.
F. REFER TO SHEET SERIES "A" FOR ADDITIONAL CEILING GRID MOUNTING SUPPORT INFORMATION. ALL LUMINAIRES WILL BE SECURELY SUPPORTED SEPARATELY FROM CEILING GRIDS TO CEILING STRUCTURE.
G. FOR EXTERIOR LIGHTING ELEVATIONS, SEE ARCHITECTURAL SHEET SERIES A-200.
H. ALL CORRIDOR AND LOBBY LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK. REFER TO SHEET SERIES "EP" FOR LOCATIONS.
I. ALL EXTERIOR BUILDING MOUNTED LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK. REFER TO SHEET SERIES "EP" FOR LOCATIONS.THE EXTERIOR BUILDING MOUNTED LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES MUST BE CONTROLLED SEPARATELY.
J. ALL LUMINAIRES IN DASHED AREA WILL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED. CONTROL IS INDICATED OR NOTED.
K. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
L. REFER TO SERIES A-200 SHEETS FOR THE MOUNTING HEIGHTS OF EXTERIOR BUILDING MOUNTED LUMINAIRES.



A1 LIGHTING FLOOR PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



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LIGHTING FLOOR PLAN - LOWER LEVEL 'C'

EL101C

Bridgers & Paxton Project No: 8819 3/21/2024 2:05:35 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt

Farmington Preschool Academy

KEYNOTES

EL03 REFER TO SHEET SERIES "EP" FOR ELECTRICAL EQUIPMENT LAYOUT IN THIS ROOM. CONTRACTOR TO STEM MOUNT LIGHTING AND UTILIZE UNISTRUT SO THAT LOCATION IS CENTERED AND AWAY FROM OBSTRUCTION.

GENERAL NOTES

A. ALL EXIT SIGNS ARE TYPE "E1" (SINGLE FACE) "E2" (DOUBLE FACE) OR "EG" UNLESS OTHERWISE NOTED. ALL EXIT SIGNS WILL BE CONNECTED TO CIRCUIT SERVING THE ROOM THEY ARE LOCATED IN AND FROM NO OTHER CIRCUIT. AT ALL "EG" LOCATIONS A HIGH ABUSE SHIELD WILL BE PROVIDED.
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G. FOR EXTERIOR LIGHTING ELEVATIONS, SEE ARCHITECTURAL SHEET SERIES A-200.
H. ALL CORRIDOR AND LOBBY LUMINAIRES WILL BE ROUTED THROUGH A TIME CLOCK. REFER TO SHEET SERIES "EP" FOR LOCATIONS.
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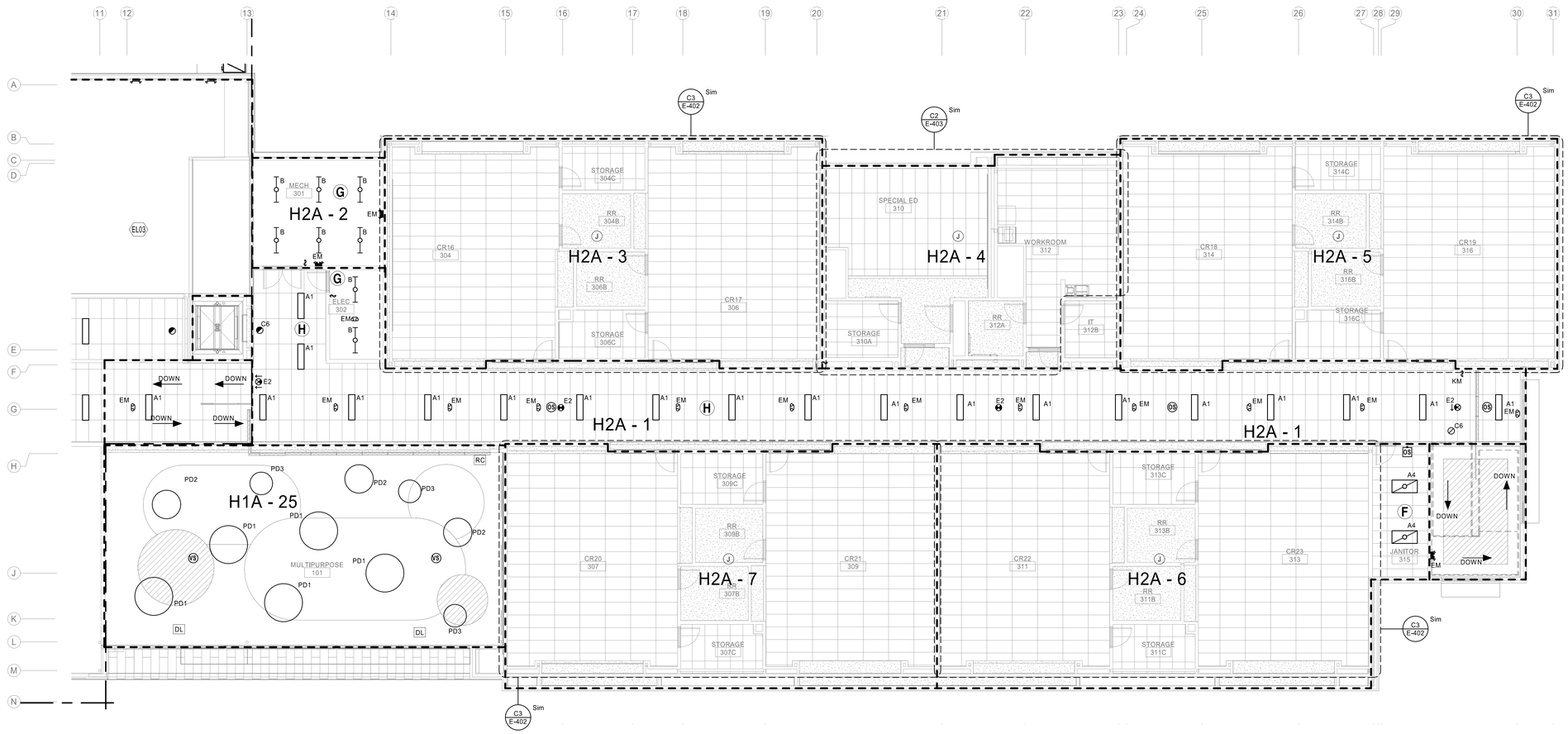
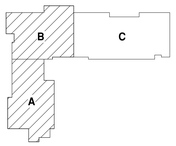
J. ALL LUMINAIRES IN DASHED AREA WILL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED. CONTROL IS INDICATED OR NOTED.
K. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
L. REFER TO ARCHITECTURAL DETAIL "A1/A-405" FOR LUMINAIRE MOUNTING HEIGHTS IN MULTIPURPOSE ROOM 101.



A1 LIGHTING FLOOR PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"



KEY PLAN N.T.S.

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SHEET TITLE
LIGHTING FLOOR PLAN - UPPER LEVEL 'C'

EL102C

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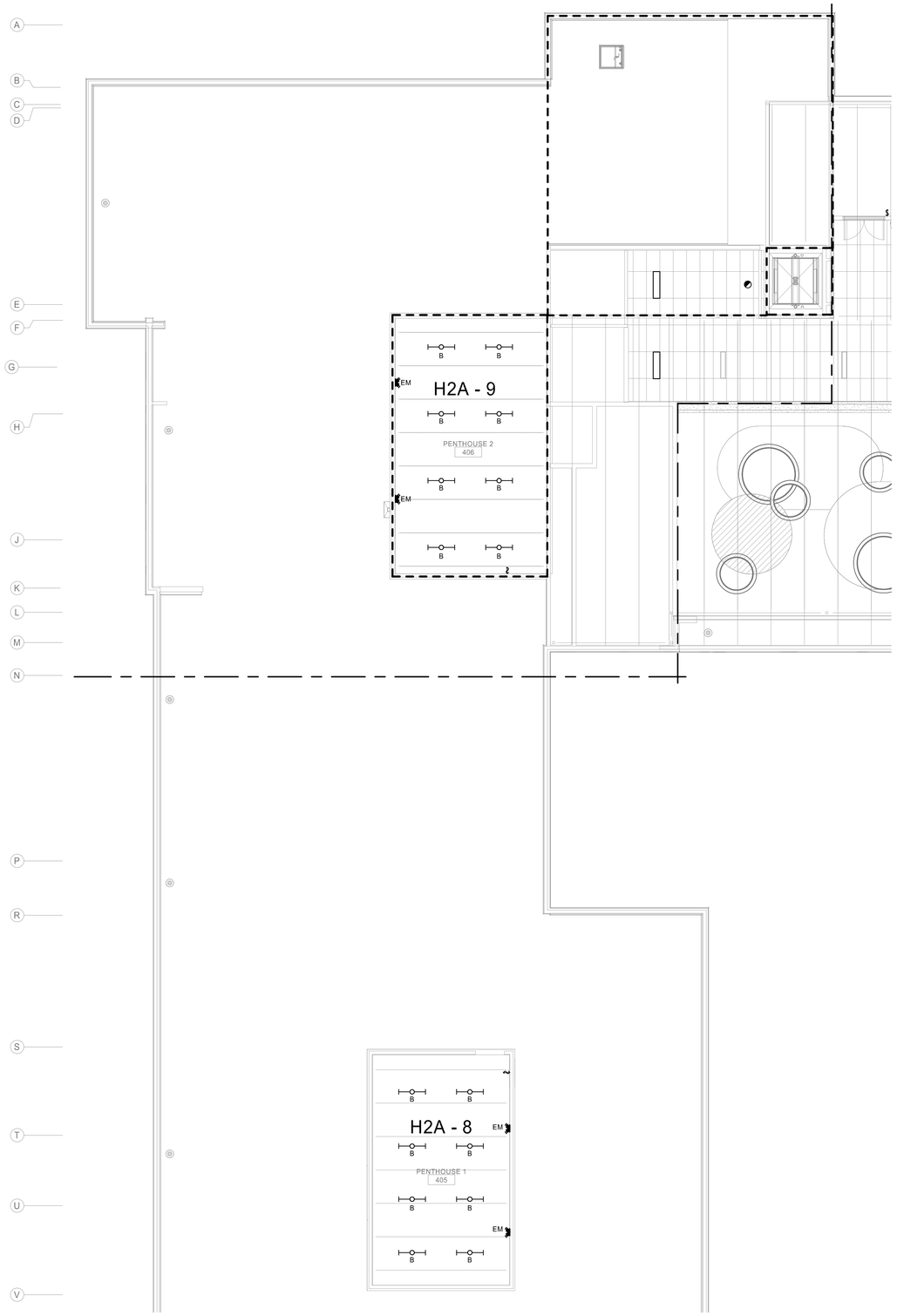
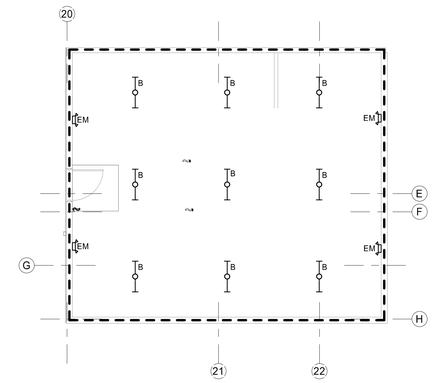
Farmington Preschool Academy



A1 LIGHTING THIRD FLOOR PLAN - AREA B
1/8" = 1'-0"



D5 LIGHTING THIRD FLOOR PLAN PENTHOUSE
SCALE: 1/8" = 1'-0"

GENERAL NOTES

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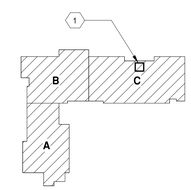
K. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.

KEYNOTES

1. APPROXIMATE LOCATION OF PENTHOUSE C. REFER TO DETAIL D5 ON SHEET EL103B



KEY PLAN
N.T.S.

0' 4' 8' 16'

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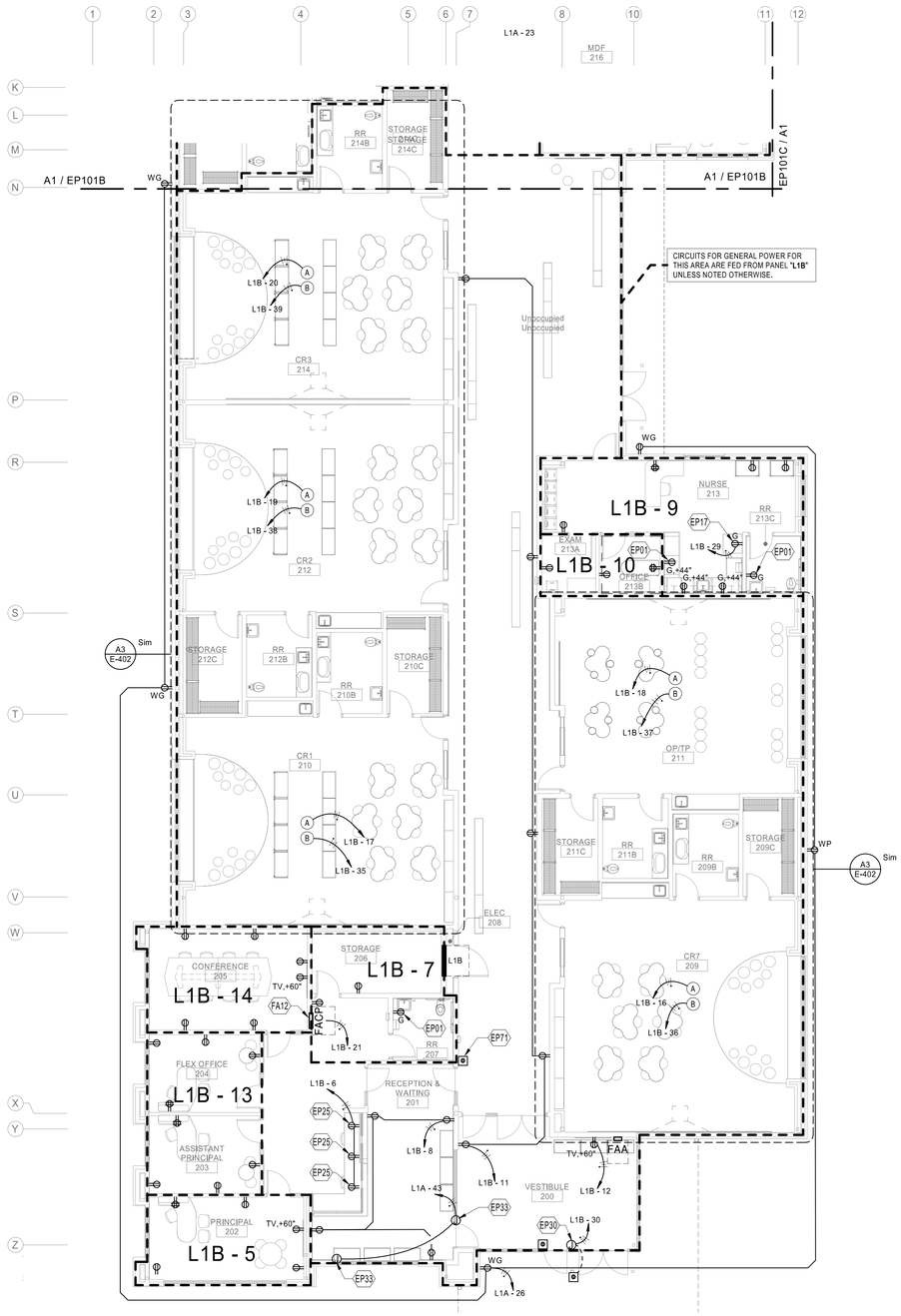
LIGHTING FLOOR PLAN - PENTHOUSE LEVEL 'B'

EL103B

Bridgers & Paxton Project No: 8819 3/21/2024 2:05:43 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy



A1 POWER FLOOR PLAN - GROUND LEVEL 'A'
1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS WILL BE GFCI RATED AND WEATHERPROOF.

B. CONTROLS FOR ALL MECHANICAL EQUIPMENT WILL BE AS INDICATED IN "M" SHEET SERIES. RACEWAY PATHS FOR CONTROLS AND WIRING AS INDICATED ON CONTROL DIAGRAMS. REFER ALSO TO SPECIFICATION SECTION 230549 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY "M" SHEET SERIES. CONTROL WILL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.

C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND REQUIRE ALIGNMENT OF DEVICES.

F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.

G. ALL CIRCUITS FOR GENERAL POWER WITHIN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.

H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES AND RECEPTACLES. PROVIDE STAINLESS STEEL COVER PLATES.

I. ALL THERMAL OVELOAD RATED SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

J. ALL RECEPTACLES IN CLASSROOMS TO BE TAMPERPROOF.

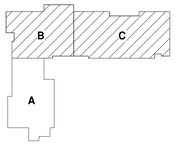
K. JBOXES SHOWN IN CENTER OF CLASSROOMS CORRELATE TO JBOXES WITH CONNECTED DEVICES IN E-400 SERIES ENLARGED PLANS.

ALL RECEPTACLES IN THE BUILDING SHALL BE TAMPER PROOF PER NEC ARTICLE 406.12.

KEYNOTES

EP01	MOUNT DEVICE(S) 44" AFF. RECEPTACLE WILL BE GFCI RATED IF DESIGNATED WITH A "G".
EP17	MOUNT DEVICE 42" AFF BEHIND REFRIGERATOR. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE. PROVIDE GFCI BREAKER IN PANEL.
EP25	MOUNT DEVICE 6" ABOVE MILLWORK. CONDUIT WILL STUB THROUGH WALL OR FLOOR AND INTO DEVICE. DEVICES WILL BE A COMBINATION RECEPTACLE AND USB PORT. USB TYPE WILL BE USB 3.0. REFER TO SHEET SERIES "T" FOR DETAILS AND ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
EP30	JUNCTION BOXES FOR PUSH BUTTONS FOR HANDICAP SYSTEM AND FOR CONNECTION TO DOOR HARDWARE. 3/4" CONDUIT BETWEEN EACH JUNCTION BOX AND PERMANENT CONDUCTORS PER DOOR HARDWARE INSTALLER'S INSTRUCTIONS. SEE DETAIL C4 ON SHEET E-501. COORDINATE MOUNTING AND LOCATION WITH ARCHITECT.
EP33	JUNCTION BOXES WILL BE FOR SHADE CONTROL. COORDINATE EXACT LOCATION IN FIELD. PROVIDE A 1" CONDUIT TO SHADES. EXTEND RACEWAY PATH TO SWITCH CONTROLLER.
EP71	BUTTON FOR PUSH-TO-ENTER DOOR. COORDINATE REQUIREMENTS WITH VENDOR. COORDINATE LOCATION WITH ARCHITECT.
FA12	COORDINATE EXACT LOCATION OF FACP WITH FA VENDOR AND OWNER.

KEY PLAN



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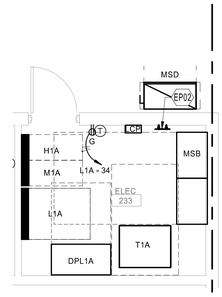
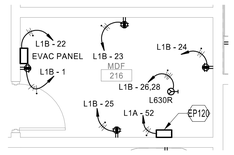
POWER FLOOR PLAN - GROUND LEVEL 'A'

EP101A

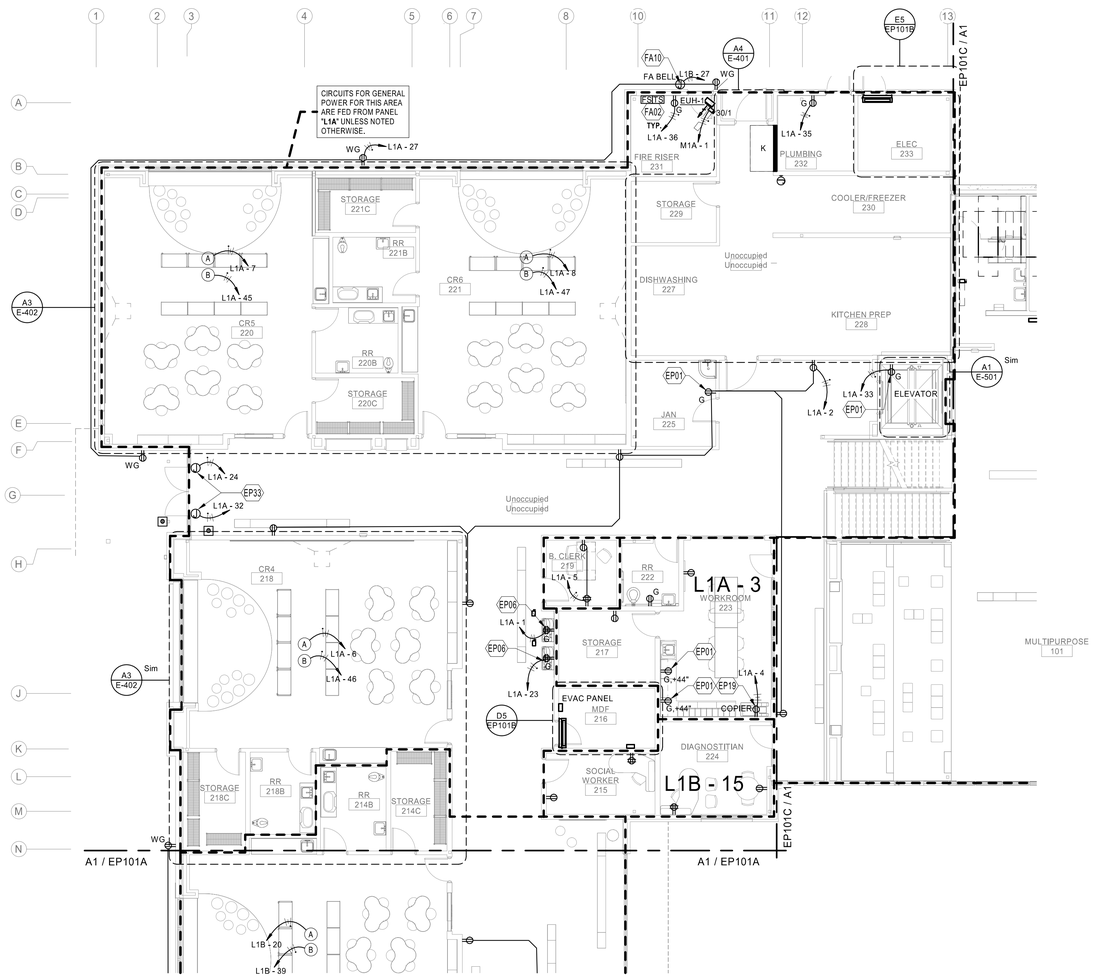
Bridgers & Paxton Project No: 8819 3/21/2024 2:05:47 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy



E5 ELEC 233 ENLARGED
SCALE: 1/4" = 1'-0"

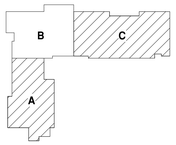


D5 MDF 216 ENLARGED
SCALE: 1/4" = 1'-0"



A1 POWER FLOOR PLAN - GROUND LEVEL 'B'
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN
N.T.S.

GENERAL NOTES

A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS WILL BE GFCI RATED AND WEATHERPROOF.

B. CONTROLS FOR ALL MECHANICAL EQUIPMENT WILL BE AS INDICATED IN "M" SHEET SERIES. RACEWAY PATHS FOR CONTROLS AND WIRING AS INDICATED ON CONTROL DIAGRAMS. REFER ALSO TO SPECIFICATION SECTION 230549 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY "M" SHEET SERIES. CONTROL WILL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.

C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND REQUIRE ALIGNMENT OF DEVICES.

F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.

G. ALL CIRCUITS FOR GENERAL POWER WITH-IN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.

H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. PROVIDE STAINLESS STEEL COVER PLATES.

I. ALL THERMAL OVELOAD RATED SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

J. JBOXES SHOWN IN CENTER OF CLASSROOMS CORRELATE TO JBOXES WITH CONNECTED DEVICES IN E-400 SERIES ENLARGED PLANS.

ALL RECEPTACLES IN THE BUILDING SHALL BE TAMPER PROOF PER NEC ARTICLE 406.12.

KEYNOTES

EP01	MOUNT DEVICE(S) 44" AFF. RECEPTACLE WILL BE GFCI RATED IF DESIGNATED WITH A "G".
EP02	GROUNDING ELECTRODE GROUND BAR. REFER TO MAIN GROUNDING ELECTRODE BUS BAR DETAIL AS ON SHEET E-501 AND ELECTRICAL GROUNDING DIAGRAM ON SHEET E-602 FOR ADDITIONAL INFORMATION.
EP06	PROVIDE DEVICE FOR ELECTRIC WATER COOLER/BOTTLE FILLER. PROVIDE GFCI CIRCUIT BREAKER IN PANEL, NOT AT RECEPTACLE. MOUNT DEVICE SO IT IS CONCEALED BEHIND UNIT ALONG WITH CORD. COORDINATE WITH MANUFACTURER'S FOR ALL REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.
EP19	DEVICE IS FOR COPIER. PROVIDE DEDICATED CIRCUIT. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.
EP33	JUNCTION BOXES WILL BE FOR SHADE CONTROL. COORDINATE EXACT LOCATION IN FIELD. PROVIDE A 1" CONDUIT TO SHADES. EXTEND RACEWAY PATH TO SWITCH CONTROLLER.
EP120	ACCESS CONTROL PANEL. PROVIDE DEDICATED 120V CIRCUIT. COORDINATE EXACT PLACEMENT WITH SHEET SERIES "T".
FA02	COORDINATE FLOW AND TAMPER SWITCH LOCATION WITH PLUMBING DRAWINGS. REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-602 FOR ADDITIONAL INFORMATION.
FA10	POWER FOR FIRE ALARM BELL AT EXTERIOR AS SHOWN. COORDINATE REQUIREMENTS WITH FA SERIES SHEETS AND VENDOR PRIOR TO ROUGH IN.

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ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
POWER FLOOR PLAN - GROUND LEVEL 'B'

EP101B

Bridgers & Paxton Project No: 8819 3/21/2024 2:05:52 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy

KEYNOTES

EP01 MOUNT DEVICE(S) 44" AFF. RECEPTACLE WILL BE GFCI RATED IF DESIGNATED WITH A "G".

EP06 PROVIDE DEVICE FOR ELECTRIC WATER COOLER/BOTTLE FILLER. PROVIDE GFCI CIRCUIT BREAKER IN PANEL, NOT AT RECEPTACLE. MOUNT DEVICE SO IT IS CONCEALED BEHIND UNIT ALONG WITH CORD. COORDINATE WITH MANUFACTURER'S FOR ALL REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.

EP19 DEVICE IS FOR COPIER. PROVIDE DEDICATED CIRCUIT. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.

EP33 JUNCTION BOXES WILL BE FOR SHADE CONTROL. COORDINATE EXACT LOCATION IN FIELD. PROVIDE A 1" CONDUIT TO SHADES. EXTEND RACEWAY PATH TO SWITCH CONTROLLER.

EP41 DEVICE FOR WASHER/DRYER. PROVIDE DEDICATED CIRCUIT. MOUNT DEVICE AT 42" AFF. PROVIDE 2#10 & 1#10 GND IN 3/4" CONDUIT FOR DRYER.

EP93 DEVICE MOUNTED ABOVE FOR SPECIAL SYSTEMS RACK. COORDINATE EXACT MOUNTING HEIGHT AND ALL REQUIREMENTS WITH CONTRACTED VENDOR PRIOR TO ROUGH-IN.

GENERAL NOTES

A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS WILL BE GFCI RATED AND WEATHERPROOF.

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C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

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F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.

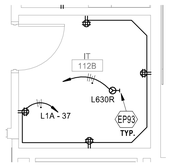
G. ALL CIRCUITS FOR GENERAL POWER WITH-IN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.

H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. PROVIDE STAINLESS STEEL COVER PLATES.

I. ALL THERMAL OVELOAD RATED SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

J. JBOXES SHOWN IN CENTER OF CLASSROOMS CORRELATE TO JBOXES WITH CONNECTED DEVICES IN E-400 SERIES ENLARGED PLANS.

ALL RECEPTACLES IN THE BUILDING SHALL BE TAMPER PROOF PER NEC ARTICLE 406.12.



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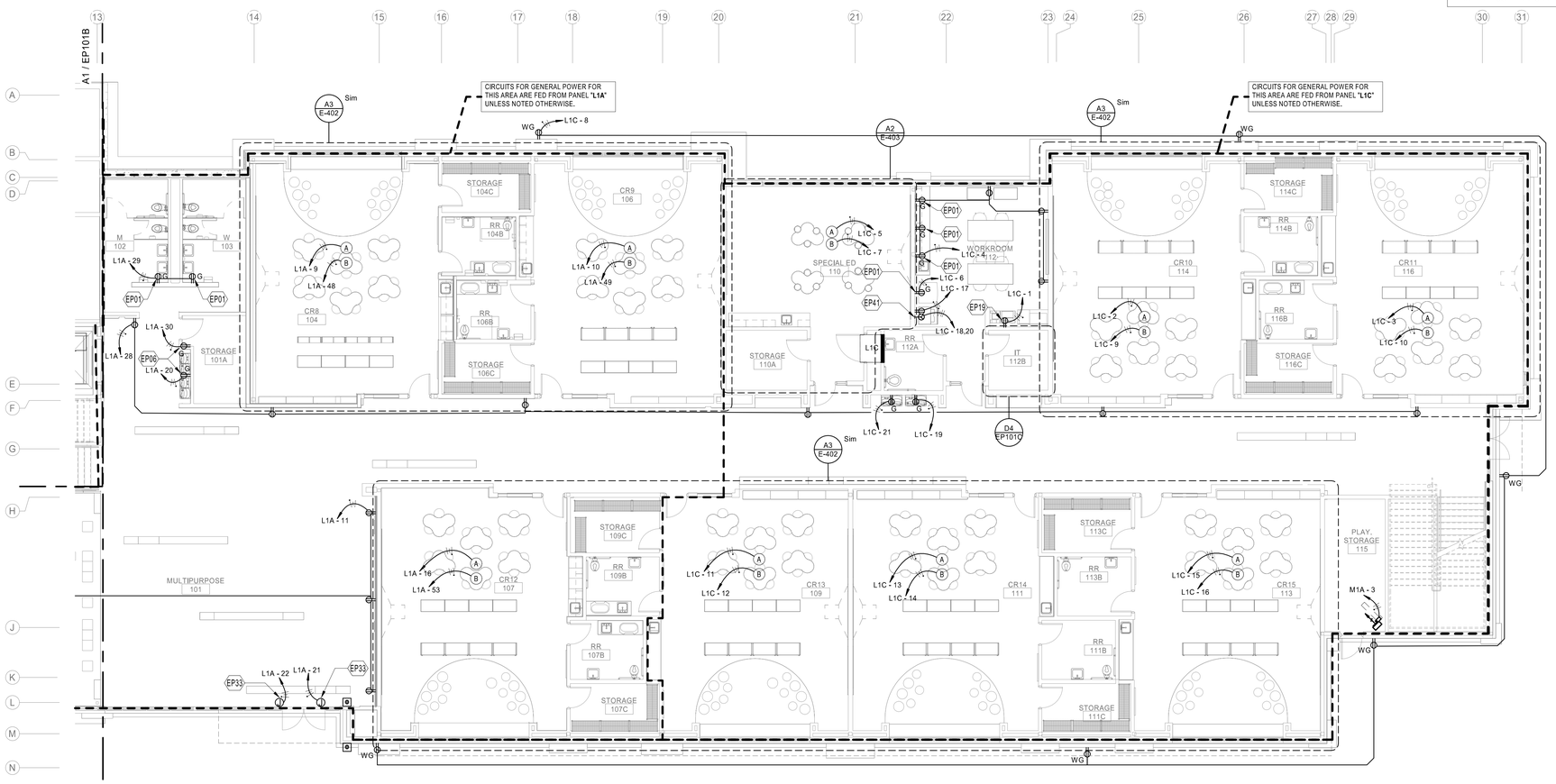
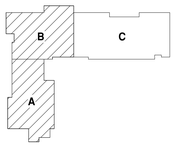


A1 POWER FLOOR PLAN - LOWER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN
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MARCH 2024

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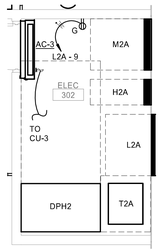
CHECKED BY:	Checker

SHEET TITLE
POWER FLOOR PLAN - LOWER LEVEL 'C'

EP101C

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:59 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt

Farmington Preschool Academy



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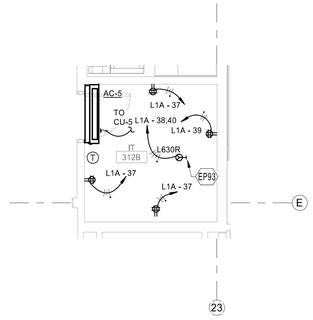
SCALE: 1/4" = 1'-0"



E3 IT 312B ENLARGED
SCALE: 1/4" = 1'-0"

KEYNOTES

EP01 MOUNT DEVICE(S) 44" AFF. RECEPTACLE WILL BE GFCI RATED IF DESIGNATED WITH A "G".

EP06 PROVIDE DEVICE FOR ELECTRIC WATER COOLER/BOTTLE FILLER. PROVIDE GFCI CIRCUIT BREAKER IN PANEL, NOT AT RECEPTACLE. MOUNT DEVICE SO IT IS CONCEALED BEHIND UNIT ALONG WITH CORD. COORDINATE WITH MANUFACTURER'S FOR ALL REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.

EP14 EMERGENCY POWER OFF (EPO) RED MUSHROOM HEAD PUSH BUTTON FOR BOILER AND/OR WATER HEATER SHUT OFF. TERMINATE CONDUCTORS TO EACH BOILER AND/OR WATER HEATER PER MANUFACTURER'S DIRECTION.

EP17 MOUNT DEVICE 42" AFF BEHIND REFRIGERATOR. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE. PROVIDE GFCI BREAKER IN PANEL.

EP18 DEVICE FOR WALL MOUNTED DISPLAY. COORDINATE EXACT MOUNTING HEIGHT AND ALL REQUIREMENTS WITH CONTRACTED VENDOR PRIOR TO ROUGH-IN. REFER TO SHEET SERIES "IT" FOR ADDITIONAL INFORMATION.

EP19 DEVICE IS FOR COPIER, PROVIDE DEDICATED CIRCUIT. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNIT PLUG. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.

EP41 DEVICE FOR WASHER/DRYER, PROVIDE DEDICATED CIRCUIT. MOUNT DEVICE AT 42" AFF. PROVIDE 2#10 & 1#10 GND IN 3/4" CONDUIT FOR DRYER.

EP93 DEVICE MOUNTED ABOVE FOR SPECIAL SYSTEMS RACK. COORDINATE EXACT MOUNTING HEIGHT AND ALL REQUIREMENTS WITH CONTRACTED VENDOR PRIOR TO ROUGH-IN.

EP11 1 MOTOR RATED SWITCH FOR MOTORIZED DAMPER. SEE "M" SERIES SHEETS FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.

EP11 8 DISCONNECT SERVING "VARIABLE FREQUENCY DRIVE (VFD). FIELD-WIRE LINE AND SUPPLY CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM. FOR EACH UNIT, REFER TO SHEET SERIES "P-700" FOR PLUMBING EQUIPMENT CHARACTERISTICS.

GENERAL NOTES

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C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

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H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. PROVIDE STAINLESS STEEL COVER PLATES.

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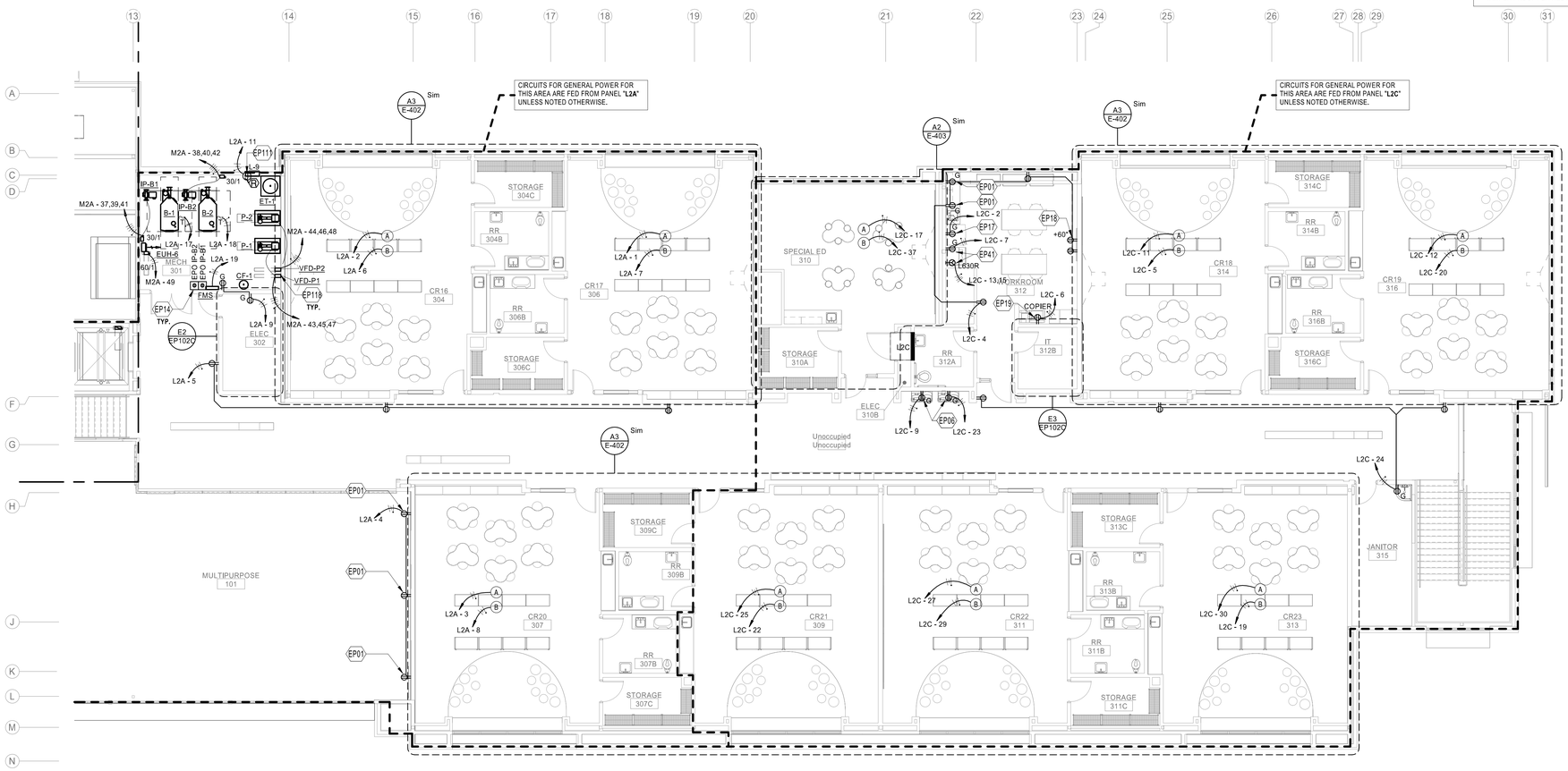
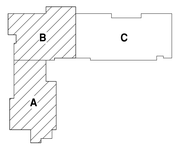


A1 POWER FLOOR PLAN - UPPER LEVEL 'C'
1/8" = 1'-0"

0' 4' 8' 16'



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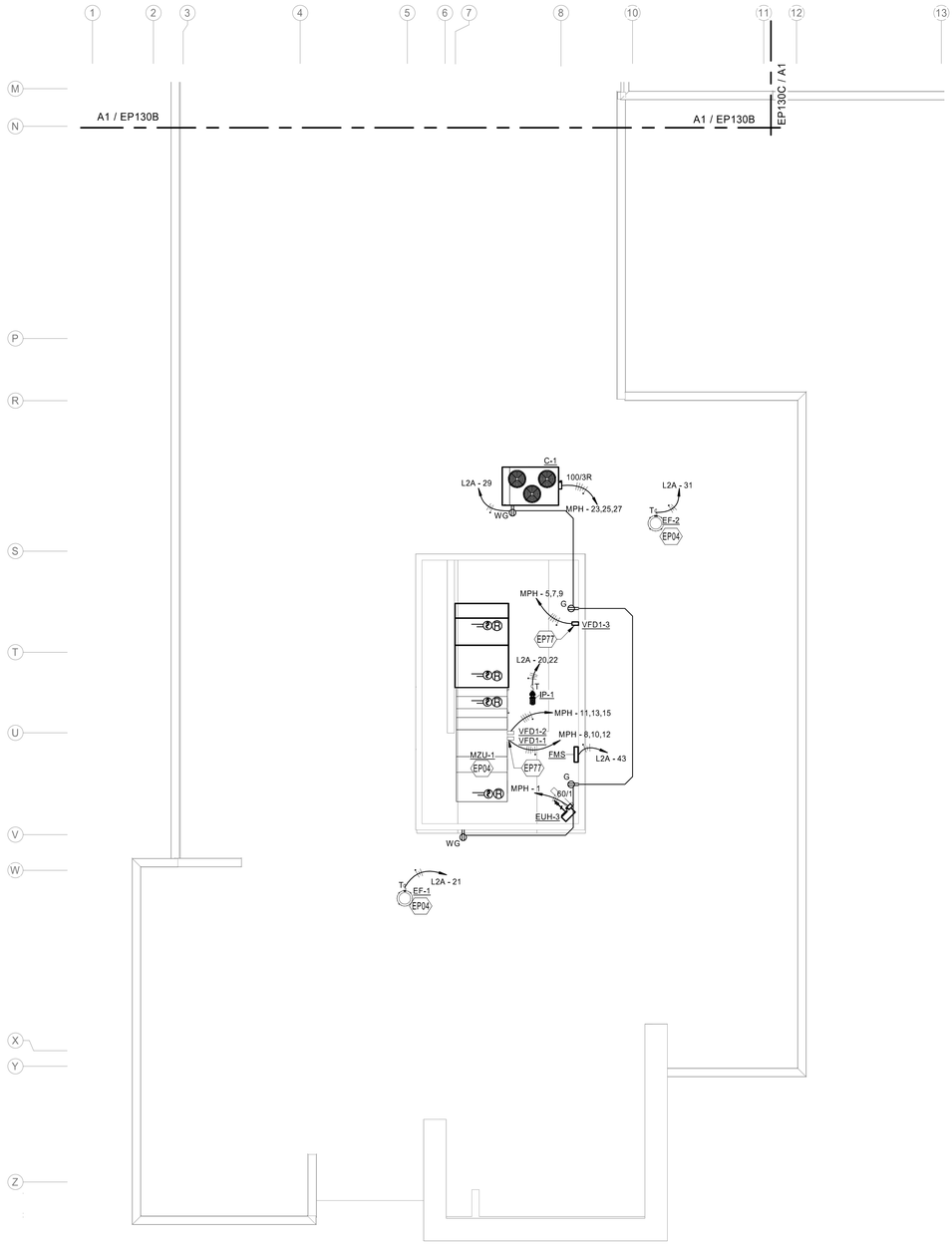
SHEET TITLE
POWER FLOOR PLAN - UPPER LEVEL 'C'

EP102C

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:06 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt

Farmington Preschool Academy



A1 ELECTRICAL ROOF PLAN - AREA A

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES

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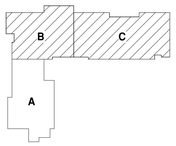
C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS/ ACCESS/ SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.
D. LOCATION OF EQUIPMENT IS APPROXIMATE AND SHOULD BE FIELD VERIFIED.
E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND REQUIRE ALIGNMENT OF DEVICES.
F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.
G. ALL CIRCUITS FOR GENERAL POWER WITH-IN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.
H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE BUT NOT LIMITED TO. SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
I. ALL THERMAL OVERLOAD SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

KEYNOTES

EP04 FOR EACH UNIT, REFER TO SHEET SERIES "M-700" FOR MECHANICAL EQUIPMENT CHARACTERISTICS. REFER TO SHEET E-702 FOR ELECTRICAL CONNECTION AND OTHER INFORMATION.

EP77 DISCONNECT SERVING "VARIABLE FREQUENCY DRIVE (VFD). FIELD-WIRE LINE AND SUPPLY CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM. FOR EACH UNIT, REFER TO SHEET SERIES "M-700" FOR MECHANICAL EQUIPMENT CHARACTERISTICS.



KEY PLAN

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

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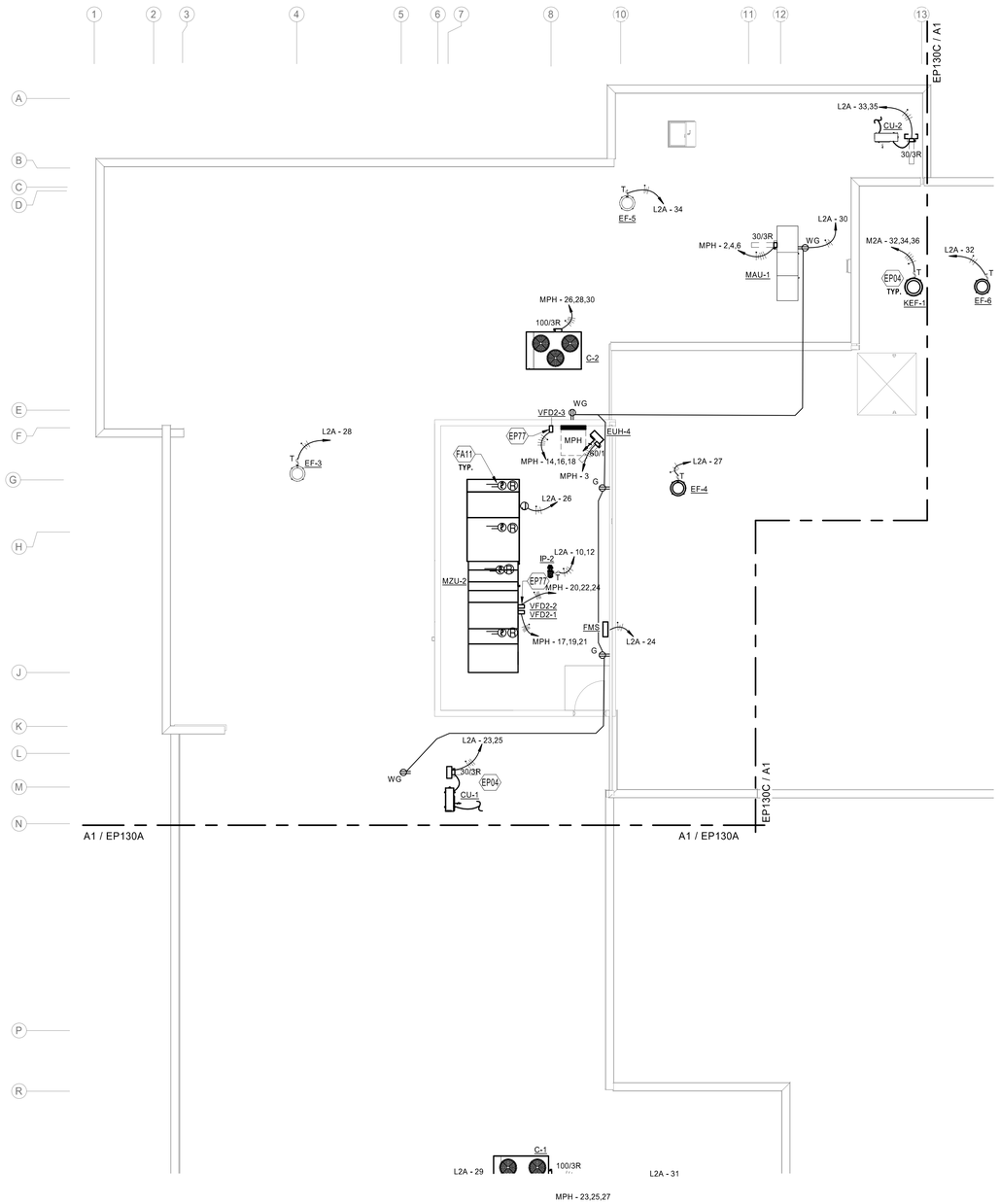
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
ELECTRICAL - ROOF PLAN 'A'

EP130A

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:08 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy



GENERAL NOTES

A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLES WILL BE GFCI RATED AND WEATHERPROOF.
B. CONTROLS FOR ALL MECHANICAL EQUIPMENT WILL BE AS INDICATED ON 'M' SHEET SERIES. RACEWAY PATHS FOR CONTROLS AND WIRING AS INDICATED ON CONTROL DIAGRAMS. REFER ALSO TO SPECIFICATION SECTION 230549 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY 'M' SHEET SERIES. CONTROL WILL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.
C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS/ ACCESS/ SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.
D. LOCATION OF EQUIPMENT IS APPROXIMATE AND SHOULD BE FIELD VERIFIED.
E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND REQUIRE ALIGNMENT OF DEVICES.
F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.
G. ALL CIRCUITS FOR GENERAL POWER WITH-IN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.
H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE BUT NOT LIMITED TO. SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
I. ALL THERMAL OVERLOAD SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

KEYNOTES

EP04 FOR EACH UNIT, REFER TO SHEET SERIES "M-700" FOR MECHANICAL EQUIPMENT CHARACTERISTICS. REFER TO SHEET E-702 FOR ELECTRICAL CONNECTION AND OTHER INFORMATION.

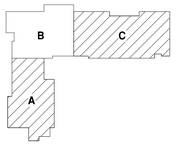
EP77 DISCONNECT SERVING "VARIABLE FREQUENCY DRIVE (VFD). FIELD-WIRE LINE AND SUPPLY CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM. FOR EACH UNIT, REFER TO SHEET SERIES "M-700" FOR MECHANICAL EQUIPMENT CHARACTERISTICS.

FA11 DUCT DETECTOR IN MECHANICAL EQUIPMENT SUPPLY/RETURN. PROVIDE FIRE ALARM RELAY AS SHOWN. COORDINATE WITH 'M' SERIES SHEETS.

A1 ELECTRICAL ROOF PLAN - AREA B

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

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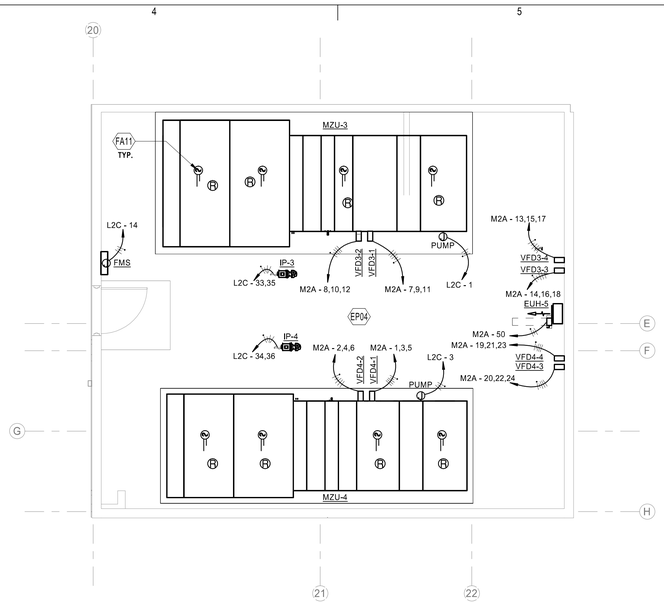
SHEET TITLE

ELECTRICAL - ROOF PLAN 'B'

EP130B

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:11 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy



D4 PENTHOUSE 3 POWER PLAN ENLARGED

SCALE: 3/16" = 1'-0"

GENERAL NOTES

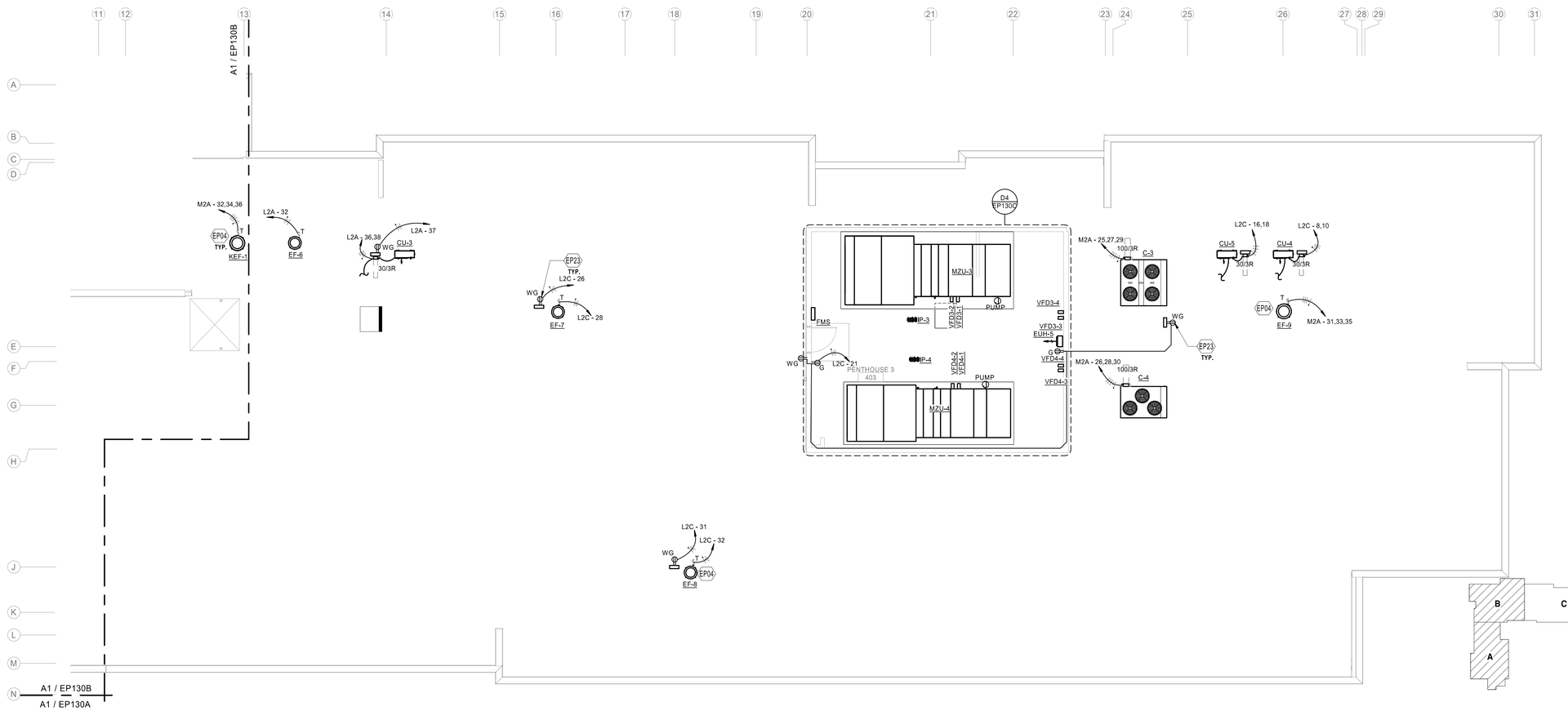
A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLES WILL BE GFCI RATED AND WEATHERPROOF.
B. CONTROLS FOR ALL MECHANICAL EQUIPMENT WILL BE AS INDICATED ON 'M' SHEET SERIES. RACEWAY PATHS FOR CONTROLS AND WIRING AS INDICATED ON CONTROL DIAGRAMS. REFER ALSO TO SPECIFICATION SECTION 230549 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY 'M' SHEET SERIES. CONTROL WILL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.
C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS/ ACCESS/ SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.
D. LOCATION OF EQUIPMENT IS APPROXIMATE AND SHOULD BE FIELD VERIFIED.
E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND REQUIRE ALIGNMENT OF DEVICES.
F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.
G. ALL CIRCUITS FOR GENERAL POWER WITH-IN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.
H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE BUT NOT LIMITED TO. SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.
I. ALL THERMAL OVERLOAD SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

KEYNOTES

EP04 FOR EACH UNIT, REFER TO SHEET SERIES "M-700" FOR MECHANICAL EQUIPMENT CHARACTERISTICS. REFER TO SHEET E-702 FOR ELECTRICAL CONNECTION AND OTHER INFORMATION.

EP23 ROOF MOUNTED RECEPTACLE ON UNISTRUT. PROVIDE 2#10 & 1#10 GROUND IN 3/4" CONDUIT. REFER TO SHEET E-501 FOR ADDITIONAL INFORMATION.

FA11 DUCT DETECTOR IN MECHANICAL EQUIPMENT SUPPLY/RETURN. PROVIDE FIRE ALARM RELAY AS SHOWN. COORDINATE WITH 'M' SERIES SHEETS.



A1 ELECTRICAL - ROOF PLAN 'C'

1/8" = 1'-0"

0' 4' 8' 16'

KEY PLAN

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SHEET TITLE

ELECTRICAL - ROOF PLAN 'C'

EP130C

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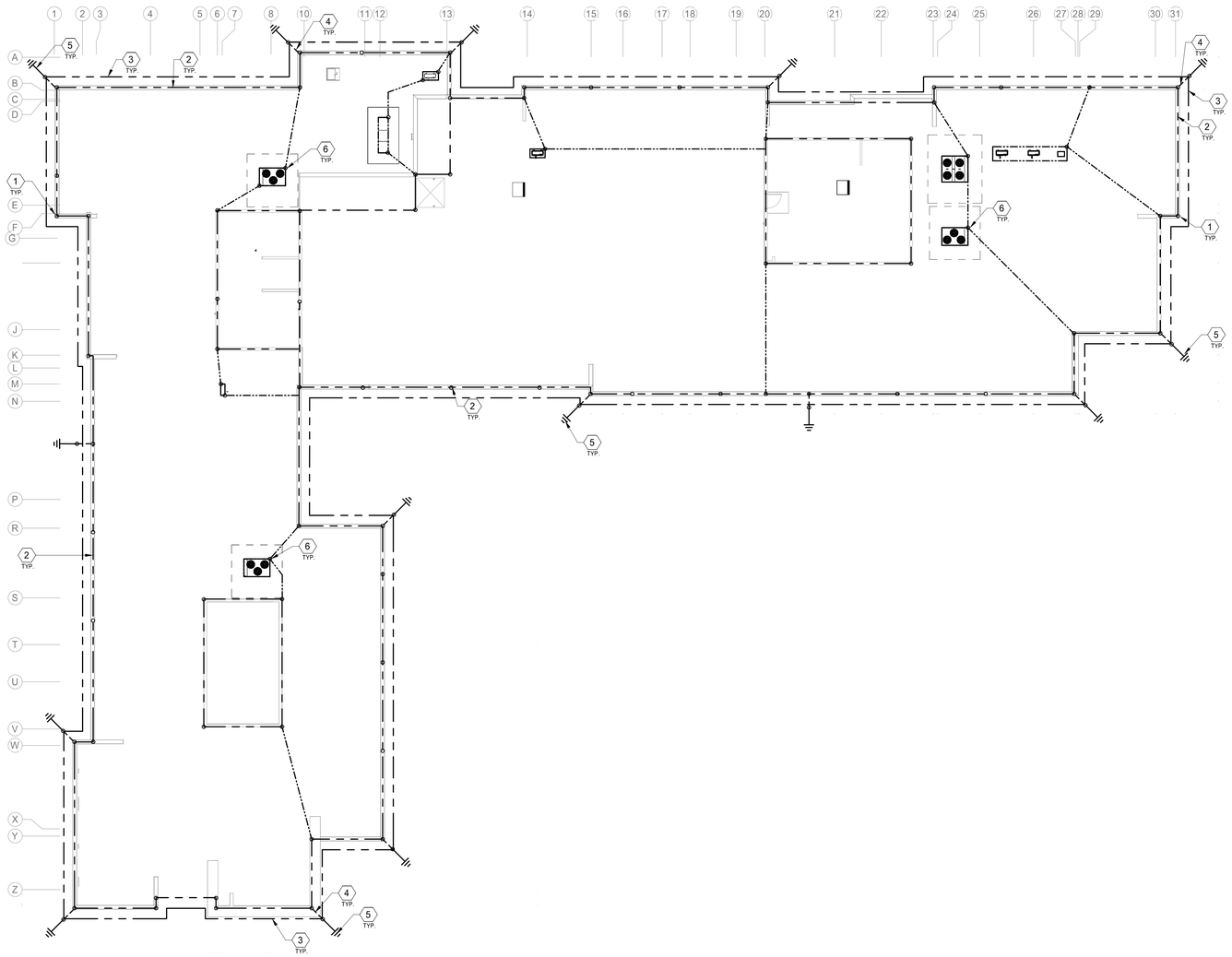
Farmington Preschool Academy



1 ELECTRICAL OVERALL LIGHTNING PROTECTION PLAN
1/16" = 1'-0"

GENERAL NOTES

A. LIGHTNING PROTECTION SYSTEM IS SHOWN DIAGRAMMATICALLY. CONTRACTOR WILL INSTALL PER NFPA 780 AND SPECIFICATION 264112 TO ACHIEVE MASTER LABEL.
B. REFER TO SHEET E-502 FOR LIGHTNING PROTECTION DETAILS AND ADITIONAL INFORMATION.
C. COMPLY WITH NFPA 70, 2017 ED.

PROVIDE A COMPLETE LIGHTNING PROTECTIO SYSTEM FOR THE BUILDING: IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE LIGHTNING PROTECTION SYSTEM. DEVICES INDICATED ON THESES DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. THE LIGHTNING PROTECTION CONTRACTOR SHALL PROVIDE A DESIGN AND SUBMIT FOR APPROVAL LIGHTNING PROTECTION SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO ENSURE THAT THE LIGHTNING PROTECTION SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE LIGHTNING PROTECTION SYSTEM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE A MASTER LABEL FOR THE LIGHTNING PROTECTION SYSTEM. NO CHANGE ORDERS WILL BE APPROVED FOR THE BASE SCOPE OF WORK.

KEYNOTES

1. 24" TALL LIGHTNING ARRESTORS.
2. LIGHTNING CONDUCTOR EXPOSED AND MOUNTED TO TOP OR SIDE OF PARAPET.
3. LIGHTNING COUNTERPOISE UNDERGROUND NO MORE THAN 5'-0" FROM BUILDING AND 36" BELOW GRADE.
4. DOWN CONDUCTOR FROM ROOF TOP LIGHTNING ARRESTORS TO COUNTERPOISE AND GROUND RODS. ROUTING OF DOWN CONDUCTOR TO COUNTERPOISE WILL BE INTERIOR TO WALL STRUCTURE.
5. GROUND RODS.
6. ATTACH LIGHTNING PROTECTION TO MECHANICAL EQUIPMENT.

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LIGHTINING PROTECTION PLAN

LP-130

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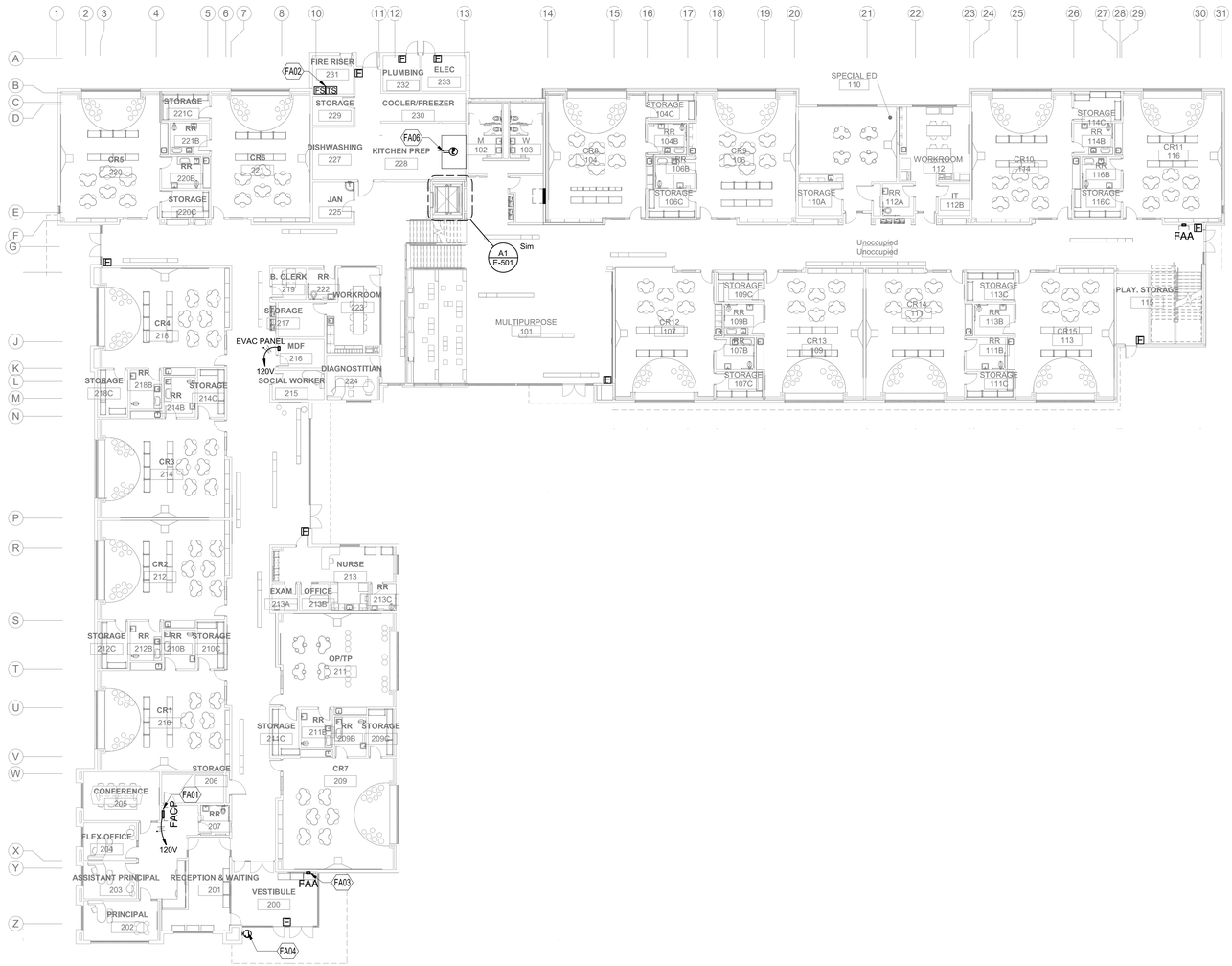
Farmington Preschool Academy



A1 FIRE ALARM OVERALL FLOOR PLAN - GROUND & LOWER LEVEL

1/16" = 1'-0"

0' 4' 8' 16'

KEYNOTES

FA01	FIRE ALARM CONTROL PANEL (FACP) OR FIRE ALARM TERMINAL CABINET (FATC). REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-603 FOR ADDITIONAL INFORMATION.
FA02	COORDINATE FLOW AND TAMPER SWITCH LOCATION WITH PLUMBING DRAWINGS. REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-602 FOR ADDITIONAL INFORMATION.
FA03	LOCATION OF FIRE ALARM ANNUNCIATOR (FAA). REFER TO FIRE ALARM RISER
FA04	APPROXIMATE LOCATION OF KNOX BOX. PROVIDE A 3/4" CONDUIT WITH PULL ROPE FROM BOX TO FACP FOR TAMPER ALARM. COORDINATE WITH ARCHITECTURAL DOCUMENTS FOR EXACT LOCATION.
FA06	CONNECT ALL FIRE SMOKE DAMPERS TO FIRE ALARM SYSTEM. REFER TO SHEET SERIES "EP" FOR POWER REQUIREMENTS. REFER TO SHEET E-602 FOR ADDITIONAL INFORMATION.

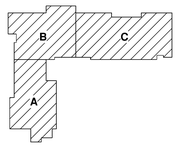
GENERAL NOTES

A. GROUP EDUCATIONAL. REFER TO SHEET SERIES "G" FOR OCCUPANCY LOCATIONS AND ADDITIONAL INFORMATION.

1) CONTRACTOR WILL COORDINATE SIGNALING DEVICES AT EGRESS PATH OR DOORS WITH ARCHITECTURAL SHEET SERIES "G".
2) SIGNAL TYPE DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.
3) PROVIDE DETECTION DEVICES IN ALL UNOCCUPIED SPACES INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE ROOMS, JANITOR'S CLOSETS, ETC.
4) PROVIDE VOICE EVACUATION SPEAKER/STROBE NOTIFICATION DEVICES IN ALL OCCUPIED AREAS PER THE REQUIREMENTS OF THE NFPA, AND LOCAL CODES AND OCCUPANCY TYPE.
5) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.
6) PROVIDE DUCT DETECTORS IN ALL SUPPLY AND RETURN AIR DUCTS FOR HVAC UNITS 2000 CFM AND OVER AND FOR ALL MECHANICAL DUCTS, UNITS, FIRE SMOKE DAMPERS AND OTHER EQUIPMENT REQUIRING FIRE ALARM SIGNAL AND NOTIFICATION. CONTRACTOR TO FIELD VERIFY THESE UNITS IN EACH BUILDING. REFER TO SHEET SERIES "M" FOR ALL MECHANICAL REQUIREMENTS AND EQUIPMENT LOCATIONS.
7) PROVIDE ADDRESSABLE DEVICES FOR FIRE SMOKE DAMPER AND/OR SMOKE DAMPERS. QUANTITY TO BE VERIFIED BY CONTRACTOR. COORDINATE FIRE SMOKE DAMPERS AND/OR SMOKE DAMPERS LOCATIONS WITH SHEET SERIES "M" PRIOR TO ROUGH-IN. INTERCONNECT TO FACP AND POWER AS REQUIRED. PROVIDE 120V POWER AND ADDRESSABLE MODULES AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION FOR BOTH TYPES OF DAMPERS.
8) HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
   a) MECHANICAL, ELECTRICAL AND STORAGE ROOMS.
   b) CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
9) FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
10) WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.
11) INSTALL BEAM DETECTORS SO AS NOT TO INTERFERE WITH BASKETBALL GOALS WHEN RAISED AND LOWERED.

B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE STATE OR BIA FIRE MARSHAL. ADD DEVICES AS REQUIRED TO MEET ALL NATIONAL AND LOCAL CODE REQUIREMENTS. COORDINATE IN FIELD ALL INSTALLATIONS.
C. INFORMATION ON CONTRACT DOCUMENTS IS FOR GENERAL INFORMATION AND BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION AND PROVIDE ADDITIONAL DEVICES AS REQUIRED.
D. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UNIT COST IN BID FOR INSTALL OF ALL SYSTEM DEVICES, WIRING, AND PLACEMENT ON WALLS AND CEILINGS.
E. ALL NEW NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED INTO THE WALLS WHERE INDICATED TO BE REQUIRED ON PLAN OR CEILINGS. PROVIDE A RACEWAY PATH ABOVE THE ACCESSIBLE CEILING AS NECESSARY.
F. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
G. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE ENGINEER.
H. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
I. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
J. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THWN OR THWN. ALL WIRING WILL BE IN RACEWAY PATH UNLESS INSTALL DICTATES THE NEED TO DO OTHERWISE.
K. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
L. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS.
M. FIRE ALARM PANEL, REMOTE ANNUNCIATOR, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS WITHOUT SPECIAL MOUNTING DETAILS.
N. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS. PROVIDE SURGE PROTECTOR AT EACH FIRE ALARM PANEL OR POWER SUPPLY.
O. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1. 22) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
P. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
Q. ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND / OR TESTING.
R. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.
S. COORDINATE WITH OWNER FOR NEW FIBER OPTIC STRANDS NEEDED FOR CONNECTIONS TO NEW FIRE ALARM PANEL.
T. REFER TO SHEET E-603 FOR FIRE ALARM RISER DIAGRAM.
U. ALL STROBES IN CORRIDORS AND COMMON AREAS WILL FLASH AT THE SAME TIME.
V. A VOICE EVACUATION SYSTEM IS NECESSARY PER THE OCCUPANCY TYPE, ASSEMBLY OF OCCUPANCY TYPE, NICET LEVEL III OR HIGHER DESIGNER AND INSTALLER PROFESSIONAL, AND AS APPROVED BY THE STATE FIRE MARSHALL'S OFFICE. CONTRACTOR WILL REFER TO SPECIFICATION 283111 FOR VOICE EVACUATION SYSTEM REQUIREMENTS.
W. CONTRACTOR WILL VERIFY WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EACH SPACE CEILING TYPES OR HEIGHTS OR LACK THERE OF A CEILING. MOUNTING OF ANY DEVICE TO A CEILING OR STRUCTURE WILL BE COORDINATED PRIOR TO COMMENCEMENT OF ANY WORK.
X. COMPLY WITH, BUT NOT LIMITED TO NFPA 70, 72, 5000, AND 2004 ED..

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE FIRE ALARM CONTRACTOR SHALL PROVIDE A DESIGN AND SUBMIT FOR APPROVAL FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.



KEY PLAN

N.T.S.

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Digitally signed by John F. Heck IV Date: 2024.03.21 17:03:18-06'00'
ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

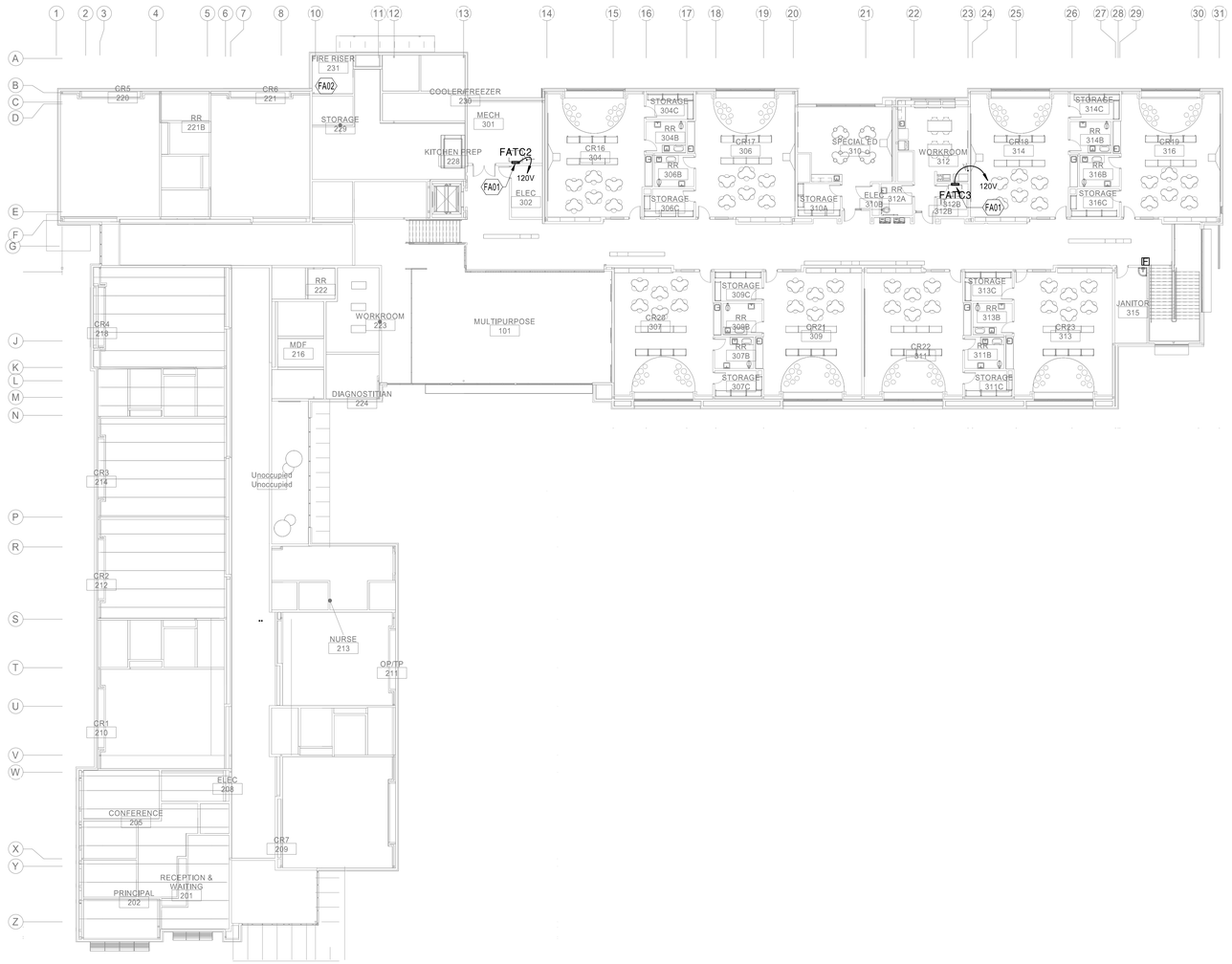
ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

FIRE ALARM OVERALL FLOOR PLAN - GROUND & LOWER LEVEL

FA100

Bridgers & Paxton Project No: 8819 3/21/2024 3:31:23 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_WLSlacy.rvt
Farmington Preschool Academy



A1 FIRE ALARM OVERALL FLOOR PLAN - UPPER LEVEL
1/16" = 1'-0"

0' 4' 8' 16'

KEYNOTES

FA01 FIRE ALARM CONTROL PANEL (FACP) OR FIRE ALARM TERMINAL CABINET (FATC). REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-603 FOR ADDITIONAL INFORMATION.

FA02 COORDINATE FLOW AND TAMPER SWITCH LOCATION WITH PLUMBING DRAWINGS. REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-602 FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. GROUP EDUCATIONAL. REFER TO SHEET SERIES "G" FOR OCCUPANCY LOCATIONS AND ADDITIONAL INFORMATION.

1) CONTRACTOR WILL COORDINATE SIGNALING DEVICES AT EGRESS PATH OR DOORS WITH ARCHITECTURAL SHEET SERIES "G".
2) SIGNAL TYPE DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.
3) PROVIDE DETECTION DEVICES IN ALL UNOCCUPIED SPACES INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE ROOMS, JANITOR'S CLOSETS, ETC.
4) PROVIDE VOICE EVACUATION SPEAKER/STROBE NOTIFICATION DEVICES IN ALL OCCUPIED AREAS PER THE REQUIREMENTS OF THE NFPA, AND LOCAL CODES AND OCCUPANCY TYPE.
5) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.
6) PROVIDE DUCT DETECTORS IN ALL SUPPLY AND RETURN AIR DUCTS FOR HVAC UNITS 2000 CFM AND OVER AND FOR ALL MECHANICAL DUCTS, UNITS, FIRE SMOKE DAMPERS AND OTHER EQUIPMENT REQUIRING FIRE ALARM SIGNAL AND NOTIFICATION. CONTRACTOR TO FIELD VERIFY THESE UNITS IN EACH BUILDING. REFER TO SHEET SERIES "M" FOR ALL MECHANICAL REQUIREMENTS AND EQUIPMENT LOCATIONS.
7) PROVIDE ADDRESSABLE DEVICES FOR FIRE SMOKE DAMPER AND/OR SMOKE DAMPERS. QUANTITY TO BE VERIFIED BY CONTRACTOR. COORDINATE FIRE SMOKE DAMPERS AND/OR SMOKE DAMPERS LOCATIONS WITH SHEET SERIES "M" PRIOR TO ROUGH-IN. INTERCONNECT TO FACP AND POWER AS REQUIRED. PROVIDE 120V POWER AND ADDRESSABLE MODULES AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION FOR BOTH TYPES OF DAMPERS.
8) HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
a) MECHANICAL, ELECTRICAL AND STORAGE ROOMS.
b) CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
9) FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
10) WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.
11) INSTALL BEAM DETECTORS SO AS NOT TO INTERFERE WITH BASKETBALL GOALS WHEN RAISED AND LOWERED.

B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE STATE OR BIA FIRE MARSHAL. ADD DEVICES AS REQUIRED TO MEET ALL NATIONAL AND LOCAL CODE REQUIREMENTS. COORDINATE IN FIELD ALL INSTALLATIONS.
C. INFORMATION ON CONTRACT DOCUMENTS IS FOR GENERAL INFORMATION AND BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION AND PROVIDE ADDITIONAL DEVICES AS REQUIRED.
D. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UNIT COST IN BID FOR INSTALL OF ALL SYSTEM DEVICES, WIRING, AND PLACEMENT ON WALLS AND CEILINGS.
E. ALL NEW NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED INTO THE WALLS WHERE INDICATED TO BE REQUIRED ON PLAN OR CEILINGS. PROVIDE A RACEWAY PATH ABOVE THE ACCESSIBLE CEILING AS NECESSARY.
F. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
G. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE ENGINEER.
H. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
I. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
J. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN. ALL WIRING WILL BE IN RACEWAY PATH UNLESS INSTALL DICTATES THE NEED TO DO OTHERWISE.
K. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
L. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS.
M. FIRE ALARM PANEL, REMOTE ANNUNCIATOR, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS WITHOUT SPECIAL MOUNTING DETAILS.
N. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS. PROVIDE SURGE PROTECTOR AT EACH FIRE ALARM PANEL OR POWER SUPPLY.
O. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1. 22) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
P. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
Q. ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND / OR TESTING.
R. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.
S. COORDINATE WITH OWNER FOR NEW FIBER OPTIC STRANDS NEEDED FOR CONNECTIONS TO NEW FIRE ALARM PANEL.
T. REFER TO SHEET E-603 FOR FIRE ALARM RISER DIAGRAM.
U. ALL STROBES IN CORRIDORS AND COMMON AREAS WILL FLASH AT THE SAME TIME.
V. A VOICE EVACUATION SYSTEM IS NECESSARY PER THE OCCUPANCY TYPE, ASSEMBLY OF OCCUPANCY TYPE, NICET LEVEL III OR HIGHER DESIGNER AND INSTALLER PROFESSIONAL, AND AS APPROVED BY THE STATE FIRE MARSHALL'S OFFICE. CONTRACTOR WILL REFER TO SPECIFICATION 283111 FOR VOICE EVACUATION SYSTEM REQUIREMENTS.
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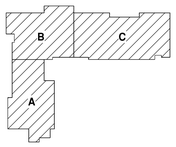

KEY PLAN
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JOHN F. HECK IV
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NO. 12498
REGISTERED PROFESSIONAL ENGINEER
Digitally signed by John F. Heck
Date: 2024.03.21 15:20:00-06'00'
ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
FIRE ALARM OVERALL FLOOR PLAN - UPPER LEVEL

FA101

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:24 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy__MJProsper.rvt

Farmington Preschool Academy

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE NOTES:

1. UNIT WILL BE HARD-WIRE CONNECTED WITH WATER-TIGHT FLEX CONDUIT. PROVIDE 6'-0" OF FLEX FOR MOVEMENT FOR UNITS CLEANING. CIRCUIT BREAKER IN PANEL WILL ACT AS UNIT DISCONNECTING MEANS WHERE POSSIBLE.
2. UNIT WILL INCORPORATE A FACTORY PLUG AND CORD. CONTRACTOR WILL MATCH NEMA CONFIGURATION OF RECEPTACLE WITH UNITS PLUG PER "FS" SPECIFICATIONS/DRAWINGS OR MANUFACTURER'S RECOMMENDATIONS. COORDINATE PRIOR TO ORDERING RECEPTACLE DEVICE.
3. SIZE FUSES PER MANUFACTURERES RECOMMENDATIONS.
4. EQUIPMENT IS EXISTING AND PROVIDED BY OWNER. CONTRACTOR WILL VERIFY EXISTING CONDITIONS PRIOR TO INSTALLING IN THIS KITCHEN.
5. REFER TO SHEET SERIES "K" FOR MOUNTING HEIGHTS OF DEVICES AND ADDITIONAL INFORMATION.

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE

ID#	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	kW/A	BRANCH CIRCUIT CONDUCTOR	CONDUIT SIZE	EQUIPMENT TERMINATION	KEYED NOTES
1	FLY FAN 48"	120	1	7.5 A	2#12 & 1#12 GND	3/4"	JBOX	
3	WALK-IN COOLER/FREEZER	120	1	1.0 KW	2#12 & 1#12 GND	3/4"	JBOX	
4	COIL, COOLER	208	1	2.0 A	2#12 & 1#12 GND	3/4"	JBOX	
5	REFRIGERATION SYSTEM, COOLER	208	3	6.2 A	4#12 & 1#12 GND	3/4"	JBOX	
6	COIL, FREEZER	208	1	10.3 A	2#12 & 1#12 GND	3/4"	JBOX	
7	REFRIGERATION SYSTEM, FREEZER	208	3	11.6 A	4#12 & 1#12 GND	3/4"	JBOX	
16	ICE MACHINE W/ BIN	120	1	7.0 A	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
21	HOT CABINET, PORTABLE	120	1	12.0 A	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
22	EXHAUST HOOD	120	1	1.0 KW	2#12 & 1#12 GND	3/4"	JBOX	
23	FIRE SUPPRESSION SYSTEM	120	1	15.0 A	2#12 & 1#12 GND	3/4"	JBOX	
25	(2)DOUBLE STACKED COMBI OVEN	208	1	0.9 KW EACH	2#12 & 1#12 GND	3/4"	JBOX	
33	MICROWAVE	120	1	13.4 A	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
34	CONVEYOR TOASTER	120	1	14.9 A	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
35	REFRIGERATOR, TWO SECTION	120	1	5.9 A	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
41	DISPOSER	208	3	6.6 A	4#12 & 1#12 GND	3/4"	JBOX	
43	DISHMACHINE, HIGH TEMP, VENTLESS	120	1	17.1 A	4#12 & 1#12 GND	3/4"	JBOX	
GP1	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP1	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP1	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP1	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP1	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP2	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP2	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP2	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP2	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP2	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP3	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	
GP3	GENERAL PURPOSE	120	1	1.608 KW	2#12 & 1#12 GND	3/4"	GFCI RECEPTACLE	

Branch Panel: K

Location: KITCHEN 226
Supply From: DPL1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 126

MINIMUM A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FLY FAN 48"	20 A	1	900 VA	840 VA					1	20 A	ICE MACHINE W/ BIN	2
3	HOT CABINET	20 A	1			1440 VA	1800 VA			1	20 A	DOUBLE STACKED COMBI-OVEN	4
5	MICROWAVE	20 A	1					1608 VA	708 VA	1	20 A	REFRIGERATOR, TWO SECTION	6
7	WALK-IN COOLER/FREEZER	20 A	1	1000 VA	1800 VA					1	20 A	FIRE SUPPRESSION SYSTEM	8
9	CONVEYOR TOASTER	20 A	1			1788 VA	180 VA			1	20 A	HEAT TRACE	10
11	EXHAUST HOOD	20 A	1					1000 VA	180 VA	1	20 A	REC STORAGE 229	12
13	GENERAL PURPOSE	20 A	1	1608 VA	1608 VA					1	20 A	GENERAL PURPOSE	14
15	GENERAL PURPOSE	20 A	1			1608 VA	1608 VA			1	20 A	GENERAL PURPOSE	16
17	GENERAL PURPOSE	20 A	1					1608 VA	1608 VA	1	20 A	GENERAL PURPOSE	18
19	GENERAL PURPOSE	20 A	1	1608 VA	1608 VA					1	20 A	GENERAL PURPOSE	20
21	GENERAL PURPOSE	20 A	1			1608 VA	1608 VA			1	20 A	GENERAL PURPOSE	22
23	GENERAL PURPOSE	20 A	1					1608 VA	1608 VA	1	20 A	GENERAL PURPOSE	24
25	COIL, FREEZER	20 A	2	1071 VA	2052 VA					1	20 A	NC DISHWASHING 227	26
27	--	--	--			1071 VA	208 VA			2	20 A	COIL, COOLER	28
29	DISPOSER	20 A	3					793 VA	208 VA	--	--	--	30
31	--	--	--	793 VA	744 VA					3	20 A	REFRIGERATION SYSTEM, COOLER	32
33	--	--	--			793 VA	744 VA			--	--	--	34
35	REFRIGERATION SYSTEM, FREEZER	20 A	3					1393 VA	744 VA	--	--	--	36
37	--	--	--	1393 VA									38
39	--	--	--			1393 VA							40
41													42
43													44
45													46
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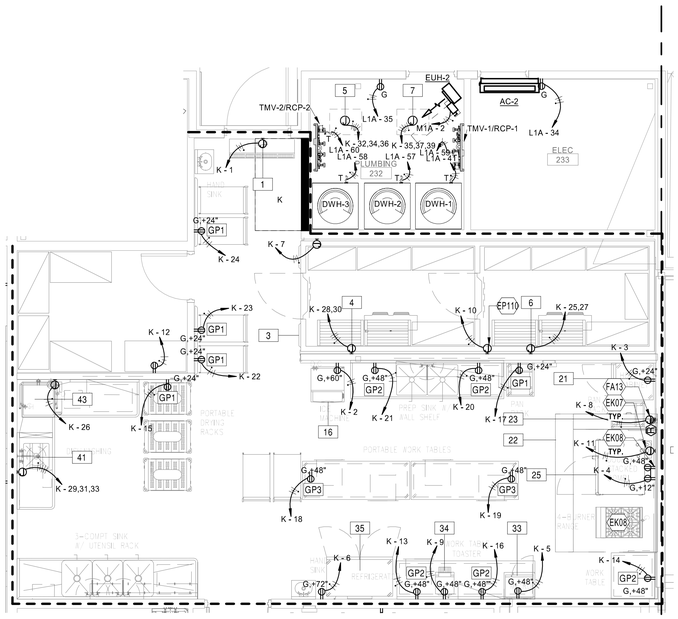
71													72
73													74
75													76
77													78
79													80
81													82
83													84
		Total Load:		17025 VA		15849 VA		13066 VA					
		Total Amps:		145 A		136 A		109 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	17279 VA	100.00%	17279 VA		
REC	26820 VA	68.64%	18410 VA	**Total Conn. Load:**	45939 VA
KIT	1840 VA	100.00%	1840 VA	**Total Est. Demand:**	37529 VA
				Total Conn. Current:	128 A
				Total Est. Demand Current:	104 A



A4 ENLARGED KITCHEN 224
SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS WILL BE GFCI RATED AND WEATHERPROOF.

B. CONTROLS FOR ALL MECHANICAL EQUIPMENT WILL BE AS INDICATED IN 'M' SHEET SERIES. RACEWAY PATHS FOR CONTROLS AND WIRING AS INDICATED ON CONTROL DIAGRAMS. REFER ALSO TO SPECIFICATION SECTION 230549 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY 'M' SHEET SERIES. CONTROL WILL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.

C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED

E. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO. SUCH DEVICES ARE, BUT NOT LIMITED TO SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.

F. ALL THERMAL RATED SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

G. CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING THE KITCHEN EQUIPMENT SHOP DRAWINGS FOR ELECTRICAL CHARACTERISTICS AS WELL AS ROUGH-INS, LOCATION, AND SIZE. CONTRACTOR WILL NOTIFY THE ARCHITECT AND KITCHEN CONSULTANT IN WRITING PRIOR TO COMMENCEMENT OF ANY WORK IF ANY DISCREPANCY ARISE.

H. INFORMATION PROVIDED HEREIN (E-401) IS FOR BIDDING PURPOSES AND DOES NOT REPRESENT EXACT INFORMATION AS DELIVERED TO THE PROJECT SITE. KITCHEN EQUIPMENT DOCUMENTS ("FS" SERIES) WILL GOVERN. CONTRACTOR WILL VERIFY EXACT REQUIREMENTS OF ALL EQUIPMENT AS DELIVERED TO PROJECT SITE AND WILL PROVIDE AND INSTALL ALL NECESSARY ATTACHMENTS AND ADJUSTMENTS THAT MAY BE REQUIRED. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.

I. REFER TO KITCHEN EQUIPMENT SPECIFICATIONS AND "FS" SHEET SERIES FOR ADDITIONAL EQUIPMENT CHARACTERISTICS AND INFORMATION FOR PROPER INSTALLATION OF KITCHEN AND ELECTRICAL EQUIPMENT AND ROUGH-N.

J. COORDINATE WITH FIRE SUPPRESSION INSTALLER FOR ALL REQUIRED CONNECTIONS. PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, RACEWAY AND CONDUCTORS AS DIRECTED. COORDINATE ALL TERMINATION TO SHUNT TRIP CIRCUIT BREAKERS, FIRE ALARM PANEL AND HOOD PRIOR TO ROUGH-N. LEAVE FIRE SUPPRESSION SYSTEM IN A COMPLETE AND OPERABLE CONDITION.

K. THROUGHOUT KITCHEN, ALL 15 AND 20 AMP. 120 VOLT RECEPTACLES, WHETHER OR NOT THE RECEPTACLE SERVES COUNTERTOP APPLIANCES, WILL BE 1 HP MOTOR RATED GFCI AND INSTALLED PER NEC2014, ARTICLE 210.882. ALL DEVICES WILL BE MOUNTED SO EASY ACCESS TO DEVICE IS POSSIBLE. IF THEY ARE INSTALLED BEHIND LARGE EQUIPMENT, THEN BRANCH CIRCUIT WILL BE PROTECTED USING A GFCI TYPE OVERCURRENT PROTECTIVE DEVICE.

L. COORDINATE WITH "FS" SHEETS FOR ALL MOUNTING HEIGHTS OF ELECTRICAL DEVICES.

M. CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING THE KITCHEN EQUIPMENT SHOP DRAWINGS FOR ELECTRICAL CHARACTERISTICS AS WELL AS ROUGH-INS, LOCATION, AND SIZE. CONTRACTOR WILL NOTIFY THE ARCHITECT AND KITCHEN CONSULTANT IN WRITING PRIOR TO COMMENCEMENT OF ANY WORK IF ANY DISCREPANCY
ARISE.

N. INFORMATION PROVIDED HEREIN (E-401) IS FOR BIDDING PURPOSES AND DOES NOT REPRESENT EXACT INFORMATION AS DELIVERED TO THE PROJECT SITE. KITCHEN EQUIPMENT DOCUMENTS ("A" SERIES) WILL GOVERN. CONTRACTOR WILL VERIFY EXACT REQUIREMENTS OF ALL EQUIPMENT AS DELIVERED TO PROJECT SITE AND WILL PROVIDE AND INSTALL ALL NECESSARY ATTACHMENTS AND ADJUSTMENTS THAT MAY BE REQUIRED. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.

O. CONTRACTOR WILL EXTEND ALL RACEWAYS AND CONDUCTORS AND PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT AS REQUIRED BY: 1) PROJECT SPECIFICATION, 2) NEC (NFPA-70); STATE AND OR LOCAL CODES. CONTRACTOR WILL MAKE FINAL TERMINATION TO KITCHEN EQUIPMENT AS DIRECTED BY KITCHEN EQUIPMENT SUPPLIER/INSTALLER AND LEAVE IN OPERABLE AND COMPLETE CONDITION.

P. REFER TO KITCHEN EQUIPMENT SPECIFICATIONS AND "A" SHEET SERIES FOR ADDITIONAL EQUIPMENT CHARACTERISTICS AND INFORMATION FOR PROPER INSTALLATION OF KITCHEN AND ELECTRICAL EQUIPMENT AND ROUGH-N.

Q. COORDINATE WITH FIRE SUPPRESSION INSTALLER FOR ALL REQUIRED CONNECTIONS. PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, RACEWAY AND CONDUCTORS AS DIRECTED. COORDINATE ALL TERMINATION TO SHUNT TRIP CIRCUIT BREAKERS, FIRE ALARM PANEL AND HOOD PRIOR TO ROUGH-N. LEAVE FIRE SUPPRESSION SYSTEM IN A COMPLETE AND OPERABLE CONDITION.

R. THROUGHOUT KITCHEN, ALL 15 AND 20 AMP. 120 VOLT RECEPTACLES, WHETHER OR NOT THE RECEPTACLE SERVES COUNTERTOP APPLIANCES, WILL BE 1 HP MOTOR RATED GFCI AND INSTALLED PER NEC 2014, ARTICLE 210.882. ALL DEVICES WILL BE MOUNTED SO EASY ACCESS TO DEVICE IS POSSIBLE. IF THEY ARE INSTALLED BEHIND LARGE EQUIPMENT, THEN BRANCH CIRCUIT WILL BE PROTECTED USING A GFCI TYPE OVERCURRENT PROTECTIVE DEVICE.

ALL RECEPTACLES IN THE BUILDING SHALL BE TAMPER PROOF PER NEC ARTICLE 406.12.

KEYNOTES

EK07 JUNCTION BOX FOR HOOD LIGHTS. MAKE ALL CONNECTIONS TO EXHAUST AND HOOD LUMINAIRES PER MANUFACTURER'S RECOMMENDATIONS. HOOD LUMINAIRES WILL BE PART OF HOOD PACKAGE. LOCATE SWITCH CONTROL PER ARCHITECT'S RECOMMENDATIONS.

EK08 THIS PIECE OF EQUIPMENT WILL AUTOMATICALLY SHUT OFF WHEN FIRE SUPPRESSION SYSTEM DETECTS A PROBLEM. CIRCUIT BREAKER WILL BE SHUNT TRIP TYPE. JUNCTION BOX WILL BE FOR FIRE SUPPRESSION CONNECTION TO FIRE ALARM PANEL AND SHUNT TRIP CIRCUIT BREAKERS. KITCHEN EQUIPMENT UNDER HOOD WILL AUTOMATICALLY SHUT DOWN IN THE EVENT OF AN EMERGENCY. ALL ELECTRICAL CIRCUIT BREAKERS WILL BE SHUNT TRIP TYPE AND CONNECTED TO SUPPRESSION AND FIRE ALARM SIGNAL. THE KEC WILL PROVIDE FIRE SUPPRESSION WITH HOOD AND HOOD SHOP DRAWINGS. THIS WILL ALSO INCLUDE DIAGRAMS AND TERMINATION REQUIREMENTS. REFER TO "FS" DRAWINGS. COORDINATE WITH KEC FOR REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK. REFER TO SHEET E-602 FOR MORE FIRE ALARM INFORMATION. POWER WILL ALSO SERVE CONTROL PANEL AT IT'S FINAL INSTALLED LOCATION. COORDINATE GAS SOLENOID VALVE REQUIREMENTS WITH PLUMBING AND PROVIDE ADEQUATE TERMINATION TO FIRE ALARM SYSTEM.

EP110 JUNCTION BOX FOR HEAT TRACE ON FREEZER CONDENSATE DRAIN. COORDINATE WITH MECHANICAL.

FA13 INTERCONNECT FIRE SUPPRESSION SYSTEM WITH FIRE ALARM SYSTEM.

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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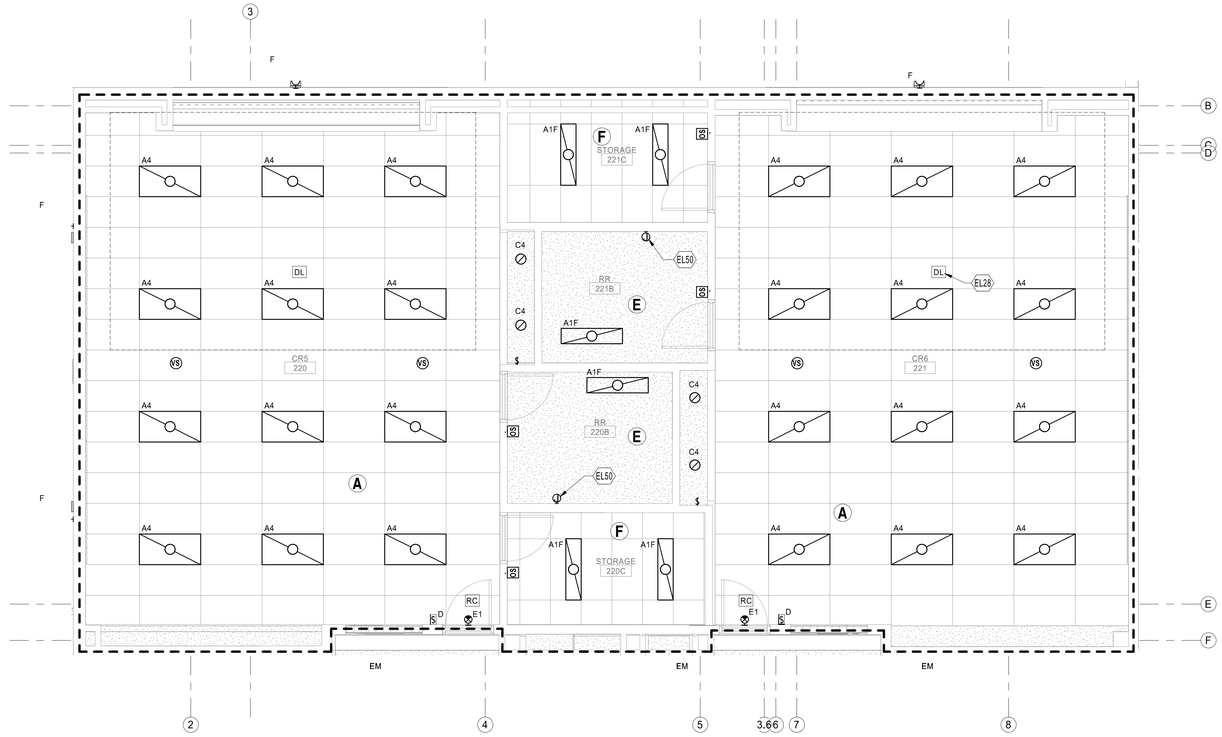
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

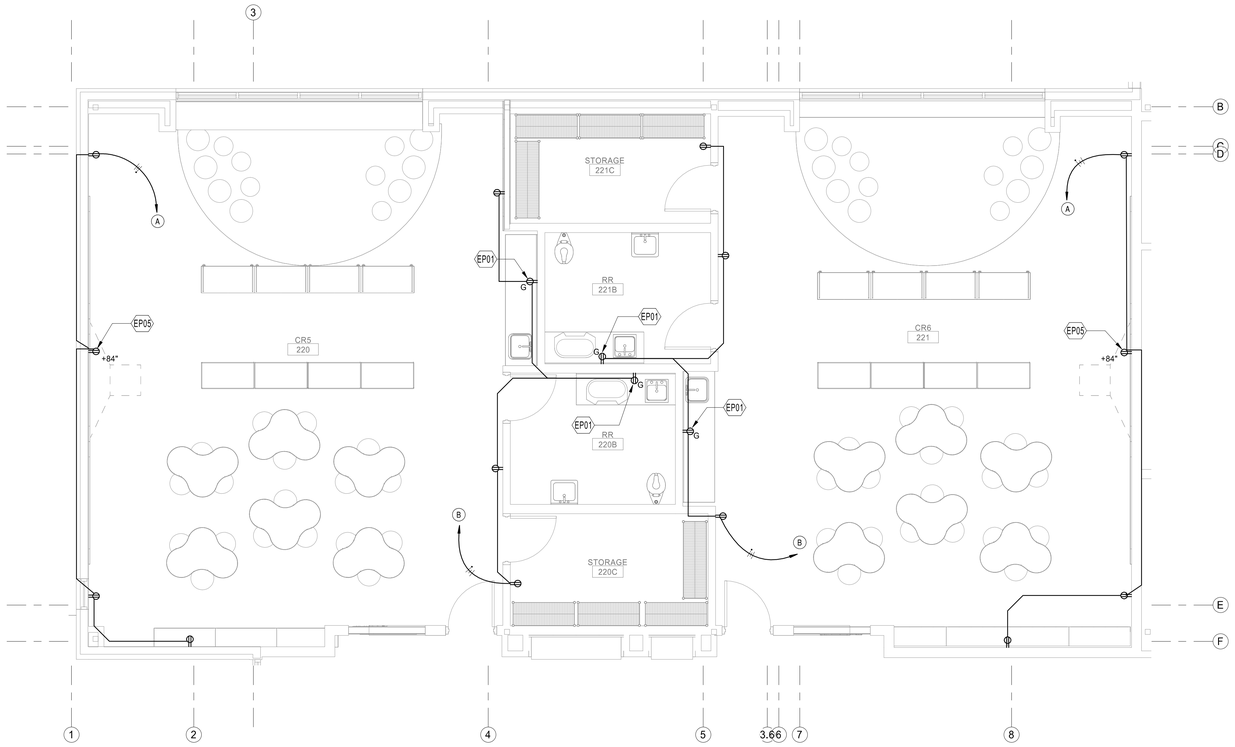
SHEET TITLE
ENLARGED ELECTRICAL PLAN

E-401



C3 ENLARGED TYPICAL CLASS ROOM SUITE LIGHTING PLAN

SCALE: 1/4" = 1'-0"



A3 ENLARGED TYPICAL CLASS ROOM SUITE RECEPTACLE PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES -RECEPTACLES

A. GFCI RECEPTACLES WILL BE INSTALLED AT ALL LOCATIONS AS REQUIRED BY THE LATEST VERSION OF NEC, STATE AND LOCAL CODES WHETHER INDICATED ON PLANS OR NOT. SOME LOCATIONS WILL BE WITHIN 6'-0" OF SINKS, EXTERIOR DOORS AND WET LOCATIONS. ALL EXTERIOR RECEPTACLE LOCATIONS WILL BE GFCI RATED AND WEATHERPROOF.

B. CONTROLS FOR ALL MECHANICAL EQUIPMENT WILL BE AS INDICATED IN "M" SHEET SERIES. RACEWAY PATHS FOR CONTROLS AND WIRING AS INDICATED ON CONTROL DIAGRAMS. REFER ALSO TO SPECIFICATION SECTION 230549 FOR ADDITIONAL INFORMATION. CONTRACTOR WILL PROVIDE A 3/4" CONDUIT FOR CONTROL WIRING AS REQUIRED BY "M" SHEET SERIES. CONTROL WILL BE BY LOCAL SWITCHES. PROVIDE PILOT LIGHT SWITCHES WHERE LOCAL SWITCHES ARE REQUIRED PER CONTROL DIAGRAMS.

C. COORDINATE ALL 120 VOLT POWER REQUIREMENTS AND LOCATIONS WITH THE CONTROLS / ACCESS / SECURITY CONTRACTORS IN THE FIELD. REFER TO SPECIFICATION 230549 FOR ADDITIONAL INFORMATION.

D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS AND REQUIRE ALIGNMENT OF DEVICES.

F. INSTALL ALL CONDUITS IN OPEN CEILING SPACE AS CLOSE TO STRUCTURE AS POSSIBLE.

G. ALL CIRCUITS FOR GENERAL POWER WITH-IN DASHED AREA WILL BE CONNECTED TO PANEL INDICATED UNLESS OTHERWISE NOTED.

H. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. PROVIDE STAINLESS STEEL COVER PLATES.

I. ALL THERMAL OVELOAD RATED SWITCHES SHALL BE RATED FOR 1HP MINIMUM.

J. ALL RECEPTACLES IN CLASSROOMS TO BE TAMPERPROOF.

ALL RECEPTACLES IN THE BUILDING SHALL BE TAMPER PROOF PER NEC ARTICLE 406.12.

GENERAL NOTES - LIGHTING

A. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOMS AND ELECTRICAL EQUIPMENT LAYOUT.
B. FOR LIGHTING SEQUENCE OF OPERATION, SEE E-603 SHEET.
C. FOR LUMINAIRE MOUNTING, REFER TO DETAILS ON E-501 SHEET.
D. REFER TO SHEET SERIES "A" FOR ADDITIONAL CEILING GRID MOUNTING SUPPORT INFORMATION. ALL LUMINAIRES WILL BE SECURELY SUPPORTED SEPARATELY FROM CEILING GRIDS TO CEILING STRUCTURE.
E. FOR EXTERIOR LIGHTING ELEVATIONS, SEE ARCHITECTURAL SHEET SERIES A-200.
F. ALL LUMINAIRES IN DASHED AREA WILL BE CONNECTED TO CIRCUIT INDICATED UNLESS OTHERWISE NOTED. CONTROL IS INDICATED OR NOTED.
G. COVER PLATES OF ALL DEVICES WILL BE LABELED WITH CIRCUIT IT IS CONNECTED TO, SUCH DEVICES ARE, BUT NOT LIMITED TO, SWITCHES AND RECEPTACLES. REFER TO SPECIFICATION SECTION 260553 FOR ADDITIONAL INFORMATION.

KEYNOTES

EL28	DAYLIGHT SENSOR, MULTI-ZONE SWITCHING AND DIMMING DIGITAL PHOTO SENSOR, WATTSTOPPER LMLS-500 OR APPROVED EQUAL. QUANTITY OF DEVICES SHOWN SHOULD BE VERIFIED WITH MANUFACTURER FOR EXACT QUANTITY AND LOCATION FOR THIS INSTALLATION. REFER TO LIGHTING SEQUENCE OF OPERATION ON THIS SHEET FOR ADDITIONAL INFORMATION.
EL50	JBOX FOR 120V LED MIRROR LIGHT ABOVE LAVATORY. EXTEND LOCAL RECEPTACLE CIRCUIT. COORDINATE CONTROLS AND REQUIREMENTS WITH VENDOR AND ARCHITECT.
EP01	MOUNT DEVICE(S) 44" AFF. RECEPTACLE WILL BE GFCI RATED IF DESIGNATED WITH A "G".
EP05	RECEPTACLE FOR SHORT THROW PROJECTOR. MOUNT ADJACENT TO DATA/AV OUTLETS. COORDINATE EXACT LOCATION WITH VENDOR/ARCHITECT. COORDINATE WITH SHEET SERIES "T" FOR ADDITIONAL INFORMATION.

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CONSTRUCTION DOCUMENTS

MARCH 2024

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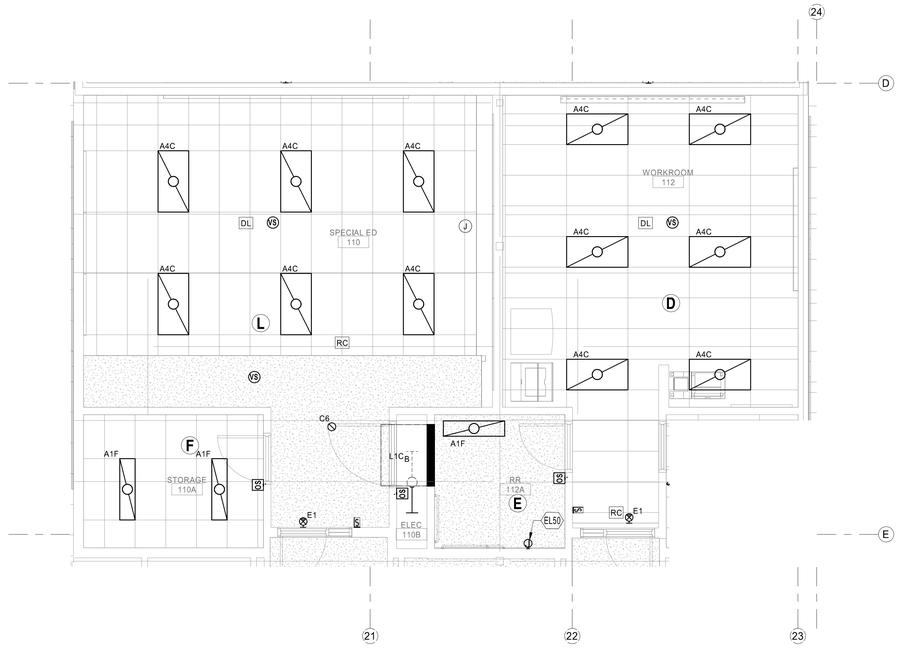
CHECKED BY:	Checker

SHEET TITLE

ENLARGED ELECTRICAL PLAN

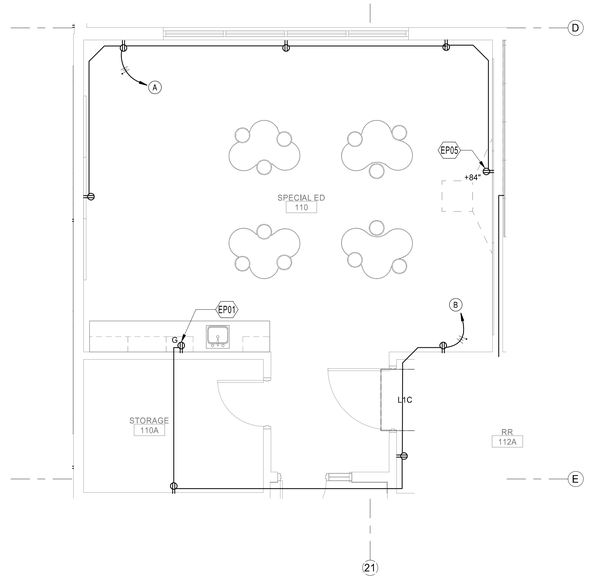
E-402

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:32 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy



C2 ENLARGED SPECIAL ED CLASSROOM AND WORKROOM LIGHTING PLAN

SCALE: 1/4" = 1'-0"



A2 ENLARGED SPECIAL ED CLASSROOM AND WORKROOM RECEPTACLE PLAN

SCALE: 1/4" = 1'-0"

KEYNOTES

EL50	JBOX FOR 120V LED MIRROR LIGHT ABOVE LAVATORY. EXTEND LOCAL RECEPTACLE CIRCUIT. COORDINATE CONTROLS AND REQUIREMENTS WITH VENDOR AND ARCHITECT.
EP01	MOUNT DEVICE(S) 44" AFF. RECEPTACLE WILL BE GFCI RATED IF DESIGNATED WITH A "G".
EP05	RECEPTACLE FOR SHORT THROW PROJECTOR. MOUNT ADJACENT TO DATA/AV OUTLETS. COORDINATE EXACT LOCATION WITH VENDOR/ARCHITECT. COORDINATE WITH SHEET SERIES "T" FOR ADDITIONAL INFORMATION.

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SHEET TITLE

ENLARGED ELECTRICAL PLAN

E-403

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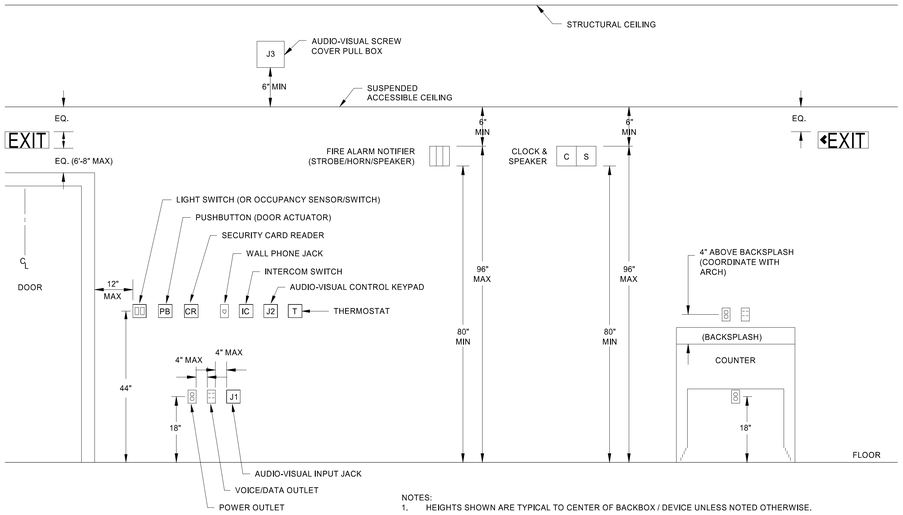
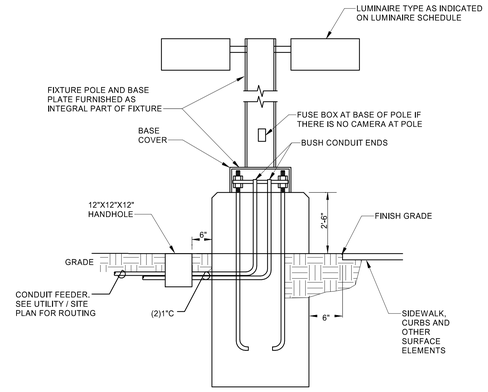
Farmington Preschool Academy



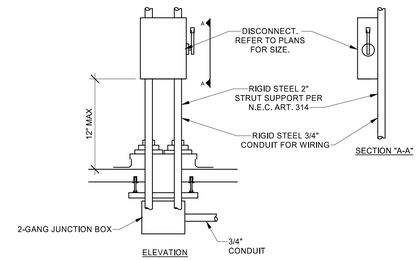
NOTES:
1. HEIGHTS SHOWN ARE TYPICAL TO CENTER OF BACKBOX / DEVICE UNLESS NOTED OTHERWISE.
2. DEVICES ABOVE DOORS SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

D1 TYPICAL DEVICE MOUNTING DETAIL
SCALE: N.T.S.



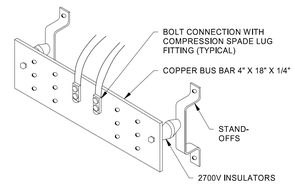
NOTE:
1. POLE BASE DETAILS SHOWS INSTALLATION OF RACEWAY PATHS FOR POLE POWER AND GROUNDING ONLY. CONCRETE, REBAR AND MOUNTING SHALL BE SPECIFIED/APPROVED BY THE STRUCTURAL ENGINEER. REFER TO A1/AS502 FOR BASE CONSTRUCTION.
2. HAND HOLE NEAR POLE BASE WILL BE A 12"x12"x12" VEHICULAR RATED FOR 15k LBS. WITH A TAMPER PROOF COVER LABELED "LIGHTING", QUAZITE OR APPROVED EQUAL.
3. PROVIDE GROUND FOR POLE AND STRUCTURE TO GROUND POLE AND LUMINAIRE.
4. CONDUIT FOR CAMERAS WILL BE ROUTED THROUGH HAND HOLE FOR SEPARATION OF SYSTEMS AND VOLTAGES OR PROVIDE A DIVIDER.

D3 POLE BASE DETAIL
SCALE: 1/4" = 1'-0"

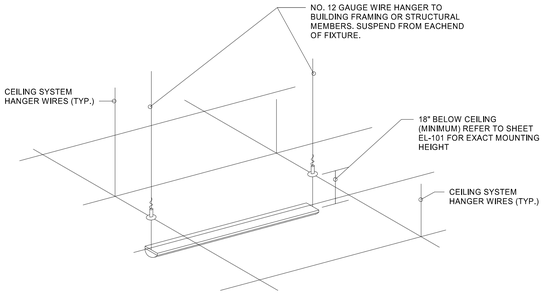


NOTE: REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR SECURELY ATTATCHING TO ROOF STRUCTURE AND FLASHING

D5 UNISTRUT MOUNTED DISCONNECT DETAIL
SCALE: NO SCALE



C5 GROUND BUS BAR
SCALE: N.T.S.



B3 LINEAR DIRECT-INDIRECT SUPPORT DETAIL
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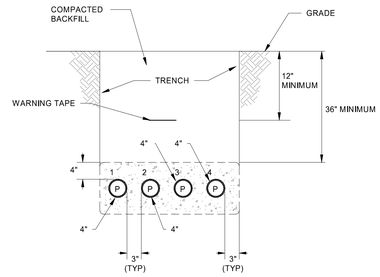

B5 SECONDARY DUCTBANK DETAIL
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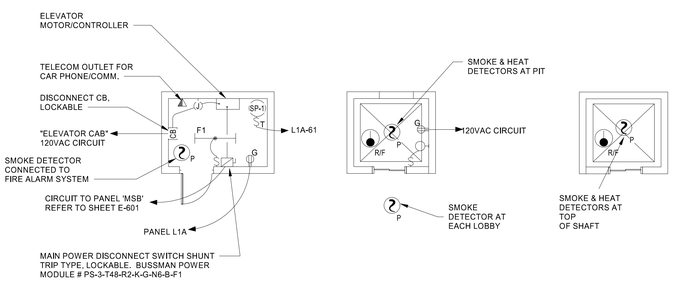
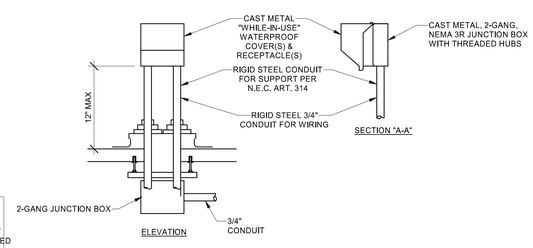


REFERENCES:
- A. NEC 620 (ELEVATORS).
- B. NFPA 72: (RECALL OPERATION) & (ELEVATOR SHUTDOWN).
- C. ASME/ANSI 17.1 (SAFETY CODE FOR ELEVATORS).
- D. NFPA 101 (HIGH RISE / STANDBY POWER).
- E. UFC 3003 (EMERGENCY OPERATIONS).

NOTES:
- A. ALL INFORMATION HAS BEEN BASED ON KONE TRACTION TYPE ELEVATOR. DIFFERENT EQUIPMENT MAY HAVE DIFFERENT REQUIREMENTS.
- B. COORDINATE ELEVATOR MOTOR SIZE WITH OWNER OR ARCHITECT.
- C. ALL JUNCTION AND DEVICE BOXES IN THE ELEVATOR SHAFT, PIT, AND MACHINE ROOM ARE TO BE WEATHER-PROOF.
- D. ALL DEVICE BOXES IN THE ELEVATOR SHAFT, PIT, AND MACHINE ROOM ARE TO HAVE WEATHER-PROOF WHILE-IN-USE COVERS.

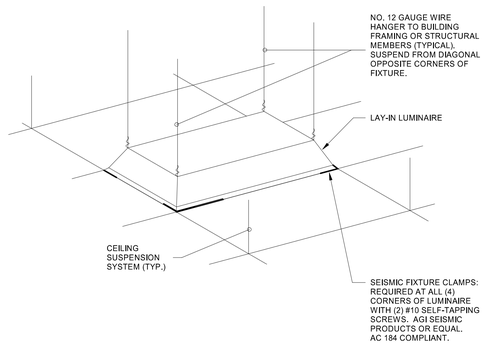
NOTE:
ELEVATOR PHASE I & II RECALL SEQUENCE OF OPERATION SHALL BE SO THE APPROPRIATE SMOKE SENSOR SHALL ACTIVATE FIREFIGHTERS SERVICE PHASE I RECALL OPERATION. THE ELEVATOR SHALL RETURN TO THE DESIGNATED FLOOR LEVEL AND REMAIN OPEN WITHOUT RESPONDING TO ANY OTHER HALLWAY OR CAR PUSH BUTTONS.

A1 TYPICAL ELEVATOR DETAILS
SCALE: N.T.S.

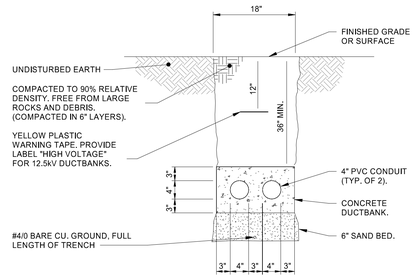


NOTE: REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR SECURELY ATTATCHING TO ROOF STRUCTURE AND FLASHING

A2 RECEPTACLE ROOF MOUNTING DETAIL
SCALE: NO SCALE



A3 LAY-IN LUMINAIRE SUPPORT DETAIL
SCALE: N.T.S.



A5 PRIMARY DUCT BANK
SCALE: N.T.S.

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FARMINGTON PRESCHOOL ACADEMY
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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
ELECTRICAL DETAIL SHEET

E-501

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:37 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy

COPPER FEEDER SCHEDULE

NOTE: ALL CONDUCTORS ARE COPPER, TYPE THWN/THHN UNLESS OTHERWISE NOTED.

DESIGNATION	CONDUCTORS	GROUND	CONDUIT	NOTES
THREE PHASE THREE WIRE & GROUND FEEDER				
20Δ	3#12	12	3/4"	
25Δ	3#10	10	3/4"	
30Δ	3#10	10	3/4"	
35Δ	3#8	10	3/4"	
40Δ	3#8	10	3/4"	
45Δ	3#8	10	3/4"	
50Δ	3#8	10	3/4"	
60Δ	3#6	10	1"	
70Δ	3#4	8	1 1/4"	
80Δ	3#4	8	1 1/4"	
90Δ	3#2	8	1 1/4"	
100Δ	3#2	8	1 1/4"	
125Δ	3#1/0	6	1 1/2"	
150Δ	3#1/0	6	1 1/2"	
175Δ	3#2/0	6	2"	
200Δ	3#3/0	6	2"	
225Δ	3#4/0	4	2 1/2"	
250Δ	3-250 KCMIL	4	3"	
300Δ	3-350 KCMIL	4	3"	
350Δ	3-500 KCMIL	2	4"	
400Δ	(2) 3#3/0	(2) 2	(2) 2"	
450Δ	(2) 3#4/0	(2) 2	(2) 2 1/2"	
500Δ	(2) 3-250 KCMIL	(2) 2	(2) 3"	
575Δ	(2) 3-300 KCMIL	(2) 1	(2) 3"	
600Δ	(2) 3-350 KCMIL	(2) 1	(2) 3"	
700Δ	(2) 3-500 KCMIL	(2) 1/0	(2) 4"	
800Δ	(3) 3-300 KCMIL	(3) 1/0	(3) 3"	
1000Δ	(3) 3-400 KCMIL	(3) 2/0	(3) 3"	
1200Δ	(4) 3-350 KCMIL	(4) 3/0	(4) 4"	
1600Δ	(5) 3-400 KCMIL	(5) 4/0	(5) 4"	
2000Δ	(6) 3-400 KCMIL	(6) 250 KCMIL	(6) 4"	
2500Δ	(7) 3-500 KCMIL	(7) 350 KCMIL	(7) 4"	
3000Δ	(8) 3-500 KCMIL	(8) 400 KCMIL	(8) 4"	
4000Δ	(11) 3-500 KCMIL	(11) 500 KCMIL	(11) 4"	
THREE PHASE FOUR WIRE & GROUND FEEDER				
20Y	4#12	12	3/4"	
25Y	4#10	10	3/4"	
30Y	4#10	10	3/4"	
35Y	4#8	10	3/4"	
40Y	4#8	10	3/4"	
45Y	4#8	10	3/4"	
50Y	4#8	10	3/4"	
60Y	4#6	10	1"	
70Y	4#4	8	1 1/4"	
80Y	4#4	8	1 1/4"	
90Y	4#2	8	1 1/4"	
100Y	4#2	8	1 1/4"	
125Y	4#1/0	6	1 1/2"	
150Y	4#1/0	6	2"	
175Y	4#2/0	6	2"	
200Y	4#3/0	6	2"	
225Y	4#4/0	4	2 1/2"	
250Y	4-250 KCMIL	4	3"	
300Y	4-350 KCMIL	4	3"	
350Y	4-500 KCMIL	2	4"	
400Y	(2) 4#3/0	(2) 2	(2) 2"	
450Y	(2) 4#4/0	(2) 2	(2) 2 1/2"	
500Y	(2) 4-250 KCMIL	(2) 2	(2) 3"	
575Y	(2) 4-300 KCMIL	(2) 1	(2) 3"	
600Y	(2) 4-350 KCMIL	(2) 1	(2) 3"	
700Y	(2) 4-500 KCMIL	(2) 1/0	(2) 4"	
800Y	(3) 4-300 KCMIL	(3) 1/0	(3) 3"	
1000Y	(3) 4-400 KCMIL	(3) 2/0	(3) 3"	
1200Y	(4) 4-350 KCMIL	(4) 3/0	(4) 4"	
1600Y	(5) 4-400 KCMIL	(5) 4/0	(5) 4"	
2000Y	(6) 4-400 KCMIL	(6) 250 KCMIL	(6) 4"	
2500Y	(7) 4-500 KCMIL	(7) 350 KCMIL	(7) 4"	
3000Y	(8) 4-500 KCMIL	(8) 400 KCMIL	(8) 4"	
4000Y	(11) 4-500 KCMIL	(11) 500 KCMIL	(11) 4"	
5000Y	(14) 4-500 KCMIL	(14) 500 KCMIL	(14) 4"	

EQUIPMENT BONDING JUMPER FOR SEPARATELY DERIVED SYSTEMS PER NEC 250.66 (PROVIDE CONDUCTOR GROUND BELOW INSTEAD OF FEEDER GROUND FOR THREE PHASE, 4-WIRE SYSTEMS INDICATED ABOVE)

DESIGNATION	GROUND		
20YS THRU 100YS	8		
125YS THRU 150YS	6		
175YS THRU 200YS	4		
225YS THRU 300YS	2		
350YS THRU 500YS	1/0		
600YS THRU 700YS	2/0		
800YS THRU 5000YS	3/0		

THREE PHASE FOUR WIRE 200% NEUTRAL & GROUND FEEDER				
100E	3#2, 1#4/0 NEUTRAL	8	2"	
150E	3#2/0, 2#2/0 NEUT.	6	2"	
225E	3-250 KCMIL, 2-250 KCMIL NEUT.	4	2 1/2"	
350E	(2) 3#3/0, (2) 2#3/0 NEUT.	(2) 2	(2) 2 1/2"	
400E	(2) 3#4/0, (2) 2#4/0 NEUT.	(2) 2	(2) 2 1/2"	
500E	(2) 3-350 KCMIL, (2) 2-350 KCMIL NEUT.	(2) 2	(2) 3"	

B1 COPPER FEEDER SCHEDULE - 600 KCMIL

SCALE: NOT TO SCALE

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***************** F A U L T   A N A L Y S I S   S U M M A R Y *************************
-----------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------
BUS NAME                        VOLTAGE          AVAILABLE FAULT CURRENT
                                  L-L           3 PHASE     X/R LINE/GRND     X/R

MSB                               480.          54752.0     4.2  50075.70     4.7
H1A                               480.          40489.7     2.0  34672.27     2.1
M1A                               480.          40489.7     2.0  34672.27     2.1
ELEVATOR                          480.           5605.6     0.4   4521.42     0.3
SPD-MSB                           480.          49808.9     2.4  44857.15     2.4

DPL1A                             208.           3957.0     3.0   3978.35     3.0
L1A                               208.           3740.0     2.6   3677.50     2.6
L1B                               208.           2592.7     1.5   2302.78     1.5
L1C                               208.           2932.0     1.8   2676.27     1.7
K                                 208.           3671.3     2.5   3585.42     2.5
SPD-DPL1A                         208.           3891.0     2.8   3890.90     2.7

DPH2                              480.          46473.3     3.2  40514.02     3.5
H2A                               480.          38683.6     2.1  32648.05     2.3
L2A                               208.           5696.6     2.8   5753.66     2.8
L2C                               208.           4486.1     1.7   4187.61     1.7
M2A                               480.          38683.6     2.1  32648.05     2.3
MPH                               480.          31499.1     1.5  26035.96     1.6
SPD-DPH2                          480.          42562.3     2.1  36792.78     2.2

*********************** FAULT ANALYSIS REPORT COMPLETED ********************************
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D5 ELECT SHORT CIRCUIT CALC

SCALE: 1/8" = 1'-0"

Electrical Service Calc.-FARMINGTON PRESCHOOL ACADEMY - Project #8819

Descrition of Load		Connected Load KVA	Demand % Multiplier	Demand Load KVA	Service % Multiplier	Service Load KVA	Notes
Lighting		35	100%	35	125%	44	1,2,3
Lighting Exterior		6	100%	6	125%	8	3
Receptacle		95	First 10KVA @ 100% Remnder over 10KVA @ 50%	53	100%	53	
Largest Motor		80	125%	100	100%	100	
Motor loads		495	100%	495	100%	495	
Non-continuous loads		39	100%	39	100%	39	
Kitchen Equipment		85	6 and more @ 65%	55	100%	55	
Subtotal of loads KVA		836		783		794	
Future Capacity					25%	198	
Total Service load KVA						992	
Voltage of Service (480-3PH)						0.831	
Total Service Ampacity						1194	1200A

52,000 Sq. Ft.	.8 watts per square foot for lighting loads =	41,600	VA
52,000 Sq. Ft.	.1 watts/square foot for Ext. LTG loads =	5,200	VA
52,000 Sq. Ft.	2.5 watts per square foot for receptacle loads =	130,000	VA
52,000 Sq. Ft.	8 watts per square foot for mechanical loads =	416,000	VA
52,000 Sq. Ft.	1.1 watts/square foot for non-continuous loads =	57,200	VA
52,000 Sq. Ft.	2.5 watts/square foot for kitchen loads =	130,000	VA

NOTES

1. Meets required New Mexico State energy requirement. IECC required light density for educational space of 0.72 watts/sq.ft.
2. Occupancy sensors were utilized through building for control to meet requirements of IECC.
3. A programmable system is also used for automatic control for energy savings.

D4 ELECT SERVICE LOAD CALC

SCALE: NOT TO SCALE

GENERAL NOTES

A. PANELBOARD AIC RATINGS ARE INDICATED ON THE PANEL SCHEDULES.

B. INFORMATION SHOWN IS DIAGRAMMATIC AND IS NOT INTENDED TO REPRESENT PHYSICAL ARRANGEMENTS, LOCATIONS, ROUTING OR CONNECTIONS. PHYSICAL LAYOUTS ARE TO BE PER FIELD CONDITIONS AND AS INDICATED ELSEWHERE IN THE ELECTRICAL PLANS.

C. REFERENCE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EQUIPMENT AND INSTALLATION. NOT ALL INFORMATION IS SHOWN ON THIS DIAGRAM.

D. ALL PANELS WILL HAVE DOOR-IN-DOOR, EACH DOOR KEY LOCKABLE ACCESSIBILITY FOR EACH PANEL.

E. CONTRACTOR WILL MEASURE AND TORQUE ALL PANEL FEEDERS, MEASURE RESISTANCE TO GROUND AT SERVICE GROUND AND PROVIDE WRITTEN DOCUMENTATION OF TEST RESULTS. CONTRACTOR WILL COORDINATE TIME SO THAT SCHOOL REPRESENTATIVE IS PRESENT DURING TEST.

F. CONTRACTOR WILL LABEL ALL DISTRIBUTION EQUIPMENT PRIOR TO FINAL OBSERVATION WALK THROUGH.

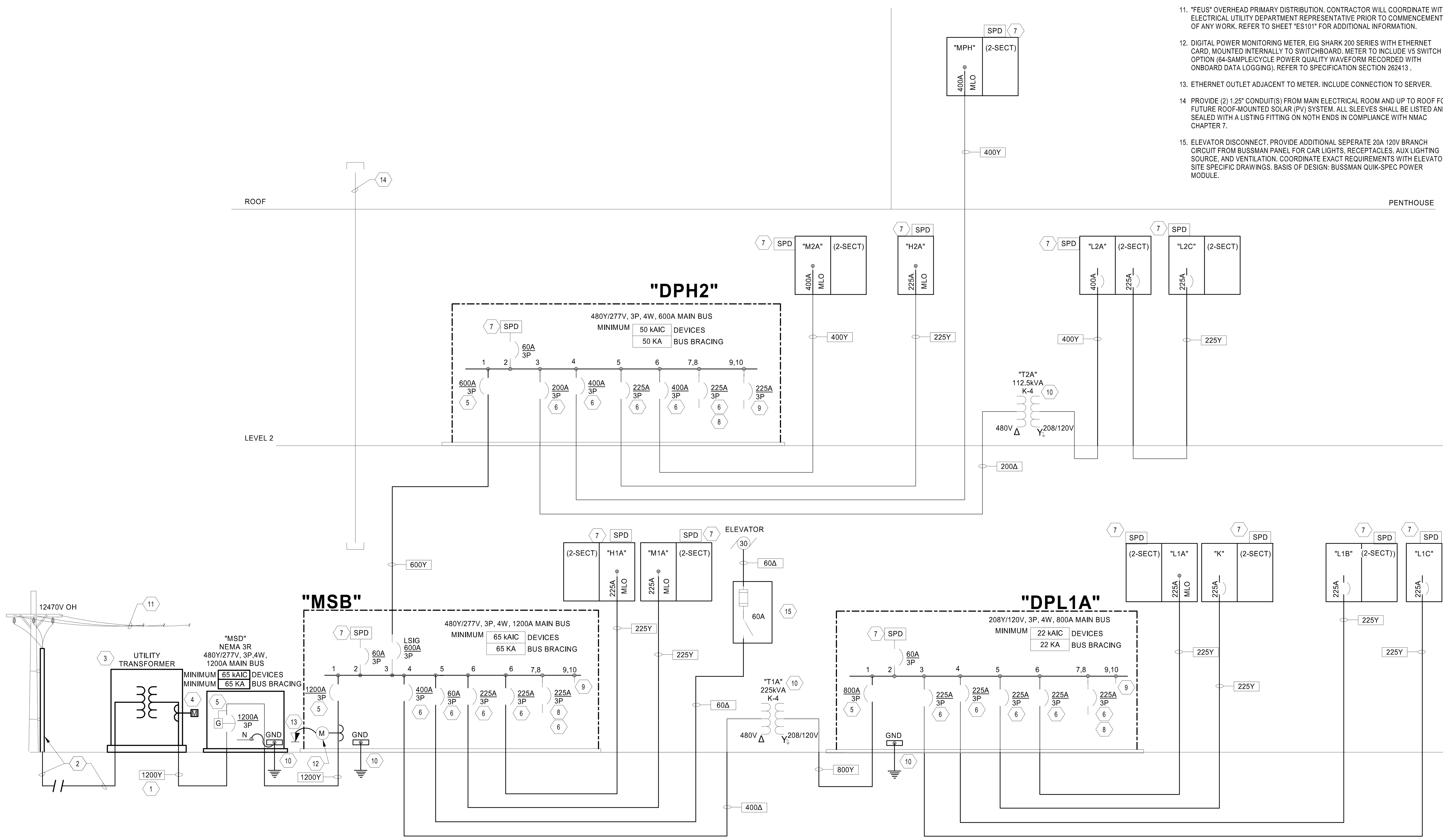
G. REFER TO GROUNDING DIAGRAM ON SHEET E-602.

H. ALL ELECTRICAL EQUIPMENT DIRECTORIES WILL BE TYPED.

I. ALL DISTRIBUTION BOARDS SHALL BE PROVIDED WITH BUS BARS THAT EXTEND THROUGH THE LENGTH OF THE EQUIPMENT WITH PROVISIONS THAT WILL ALLOW THE OWNER TO ADD OVERCURRENT PROTECTION IN THE FUTURE

KEYNOTES

1. DO NOT RUN EQUIPMENT GROUND CONDUCTOR IN SERVICE LATERAL.
2. FARMINGTON ELECTRIC UTILITY SYSTEMS UNDERGROUND PRIMARY DISTRIBUTION FROM OVERHEAD. CONTRACTOR WILL COORDINATE WITH ELECTRICAL UTILITY DEPARTMENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK. REFER TO SHEET ES101 FOR ADDITIONAL INFORMATION.
3. UTILITY TRANSFORMER TO BE PROVIDED BY "FEUS". CONTRACTOR WILL COORDINATE TERMINATIONS AND CONCRETE PAD INSTALLATION PRIOR TO COMMENCEMENT OF ANY WORK.
4. METER MOUNTED TO SIDE OF TRANSFORMER PER "FEUS" REQUIREMENTS.
5. SOLID STATE, ELECTRONIC TRIP CIRCUIT BREAKER WITH LONGTIME, SHORTIME, INSTANTANEOUS, AND GROUND, 100% RATED WITH ADJUSTABLE SETTINGS. PROVIDE WITH ENERGY REDUCTION MAINTENANCE SWITCH.
6. MOLDED CASE, THERMAL-MAGNETIC CIRCUIT BREAKER WITH LOCKABLE CAPABILITIES.
7. SPD MOUNTED INTERNALLY TO SWITCHBOARD/PANELBOARD. REFERENCE SECTION 264313 FOR ADDITIONAL INFORMATION.
8. PROVIDE TWO (2) SPARE CIRCUITS BREAKERS. SIZE AS INDICATED.
9. PROVIDE TWO (2) SPACES FOR FUTURE CIRCUIT BREAKERS. SIZE AS INDICATED.
10. REFER TO SHEET E-602 FOR GROUNDING INFORMATION FOR THIS EQUIPMENT.
11. "FEUS" OVERHEAD PRIMARY DISTRIBUTION. CONTRACTOR WILL COORDINATE WITH ELECTRICAL UTILITY DEPARTMENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK. REFER TO SHEET "ES101" FOR ADDITIONAL INFORMATION.
12. DIGITAL POWER MONITORING METER, EIG SHARK 200 SERIES WITH ETHERNET CARD, MOUNTED INTERNALLY TO SWITCHBOARD. METER TO INCLUDE V5 SWITCH OPTION (64-SAMPLE/CYCLE POWER QUALITY WAVEFORM RECORDED WITH ONBOARD DATA LOGGING). REFER TO SPECIFICATION SECTION 262413 .
13. ETHERNET OUTLET ADJACENT TO METER. INCLUDE CONNECTION TO SERVER.
14. PROVIDE (2) 1.25" CONDUIT(S) FROM MAIN ELECTRICAL ROOM AND UP TO ROOF FOR FUTURE ROOF-MOUNTED SOLAR (PV) SYSTEM. ALL SLEEVES SHALL BE LISTED AND SEALED WITH A LISTING FITTING ON NOTH ENDS IN COMPLIANCE WITH NMAC CHAPTER 7.
15. ELEVATOR DISCONNECT. PROVIDE ADDITIONAL SEPERATE 20A 120V BRANCH CIRCUIT FROM BUSSMAN PANEL FOR CAR LIGHTS, RECEPTACLES, AUX LIGHTING SOURCE, AND VENTILATION. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR SITE SPECIFIC DRAWINGS. BASIS OF DESIGN: BUSSMAN QUIK-SPEC POWER MODULE.



A2 ELECTRICAL ONE LINE DIAGRAM

SCALE: NOT TO SCALE

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
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DRAWN BY:	Author
CHECKED BY:	Checker

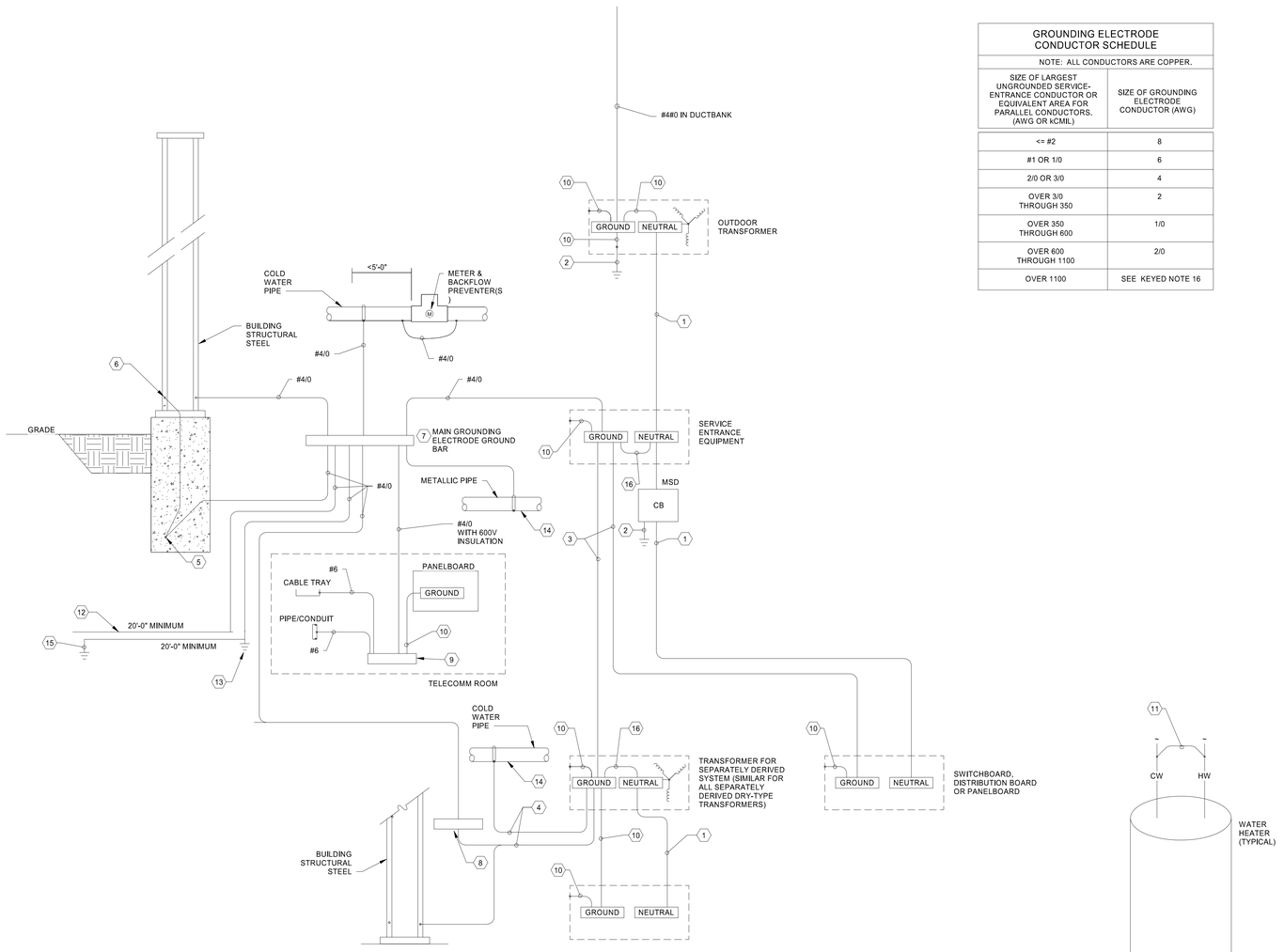
SHEET TITLE

ELECTRICAL DIAGRAMS

E-601

Farmington Preschool Academy

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:40 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt



GROUNDING ELECTRODE CONDUCTOR SCHEDULE	
NOTE: ALL CONDUCTORS ARE COPPER.	
SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS. (AWG OR KCMIL)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG)
<= #2	8
#1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	SEE KEYED NOTE 16

GROUNDING GENERAL NOTES

A. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
B. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO SERVICE ENTRANCE EQUIPMENT GROUND BUS USING NEC TABLE 250.102 (C)(1).
C. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED EQUAL TO EQUIPMENT GROUNDING CONDUCTOR.
D. BOND ELECTRICAL EQUIPMENT ENCLOSURES TO GROUND BAR USING SAME SIZE CONDUCTOR AS FEEDER EQUIPMENT GROUND CONDUCTOR OR FACTORY PROVIDED GREEN SCREW.
E. CLEAN COATED RE-BAR PRIOR TO PERFORMING ELECTRICAL CONNECTIONS.

GROUNDING KEYNOTE LEGEND

1. REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE FOR GROUNDED CONDUCTOR SIZE.
2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD.
3. FOR EQUIPMENT GROUNDING CONDUCTOR SIZE REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE.
4. PROVIDE GROUNDING ELECTRODE CONDUCTOR SIZE BASED ON THE CONDUCTOR SIZE OF THE SECONDARY OF THE TRANSFORMER. SIZE PER NEC 250.66 AND PER SCHEDULE ON THIS SHEET.
5. PROVIDE A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER #4/0 BARE COPPER CABLE OR #6 OR LARGER STEEL REINFORCING BARS MADE ELECTRICALLY CONTINUOUS USING EXOTHERMICALLY WELDED #4/0 JUMPERS.
6. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE EXOTHERMIC WELDS.
7. PROVIDE A 1/4" X 4" X 12" "MAIN GROUNDING ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION.
8. USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVER CURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN SAME ROOM OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
9. INSTALL A 1/4" X 4" COPPER "TELECOMMUNICATIONS GROUNDING BUSBAR" IN EACH TELECOMMUNICATIONS ROOM. CONNECT CABLES TO THE "TELECOMMUNICATIONS GROUNDING BUSBAR" USING COMPRESSION SPADE LUGS. LABEL CONDUCTORS PER ANSI-J-STD-607-A. LABEL EACH CONNECTION. SEE PLAN FOR BAR LENGTH AND LOCATIONS.
10. BONDING JUMPER SIZED PER GROUNDING ELECTRODE CONDUCTOR SCHEDULE THIS SHEET.
11. BOND HOT WATER PIPE TO COLD WATER PIPE AT EACH WATER HEATER WITH A #8 BARE COPPER CONDUCTOR.
12. PROVIDE A GROUND RING PER NEC 250.52 A.4.
13. PROVIDE A GROUND ROD PER NEC 250.52 A.5
14. BOND ALL METALLIC PIPING SYTEMS WITHIN STRUCTURE.
15. PROVIDE A GROUNDING ELECTRODE SYSTEM PER 2014 NMEC.
16. MAIN BONDING JUMPER AND/OR SYSTEM BONDING JUMPER SIZE BASED ON UNGROUNDED CONDUCTOR SIZE AND GROUNDING ELECTRODE CONDUCTOR SCHEDULE ON THIS SHEET UNLESS UNGROUNDED CONDUCTOR SIZE OR EQUIVALENT IS GREATER THAN 1100 KCMIL. IF GREATER THAN 1100 KCMIL (OR 1750 KCMIL FOR ALUMINUM) SIZE JUMPER PER NEC TABLE 250.102 (C)(1)
17. LIGHTNING PROTECTION COUNTERPOISE - #4/0 BARE COPPER.
18. BOND EACH CORNER STRUCTURAL STEEL AND PERIMETER STRUCTURAL STEEL AT NO MORE THAN 50 FOOT SPACING TO THE LIGHTNING PROTECTION COUNTERPOISE.
19. COVER THE EXTERIOR LIGHTNING PROTECTION DOWN CONDUCTOR WITH NON-CONDUCTIVE MATERIAL FROM THE FINAL GRADE TO 8' ABOVE FINISHED FLOOR.

FIRE ALARM GENERAL NOTES

A. FIRE ALARM DIAGRAM INDICATES GENERAL DIAGRAMMATIC CONNECTIONS ONLY. ALL CONNECTIONS AND INSTALLATION WILL BE PER FIRE ALARM SYSTEM CONTRACTOR'S SHOP DRAWINGS.

B. DEVICE QUANTITIES ARE NOT INDICATED ON THIS DRAWING. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.

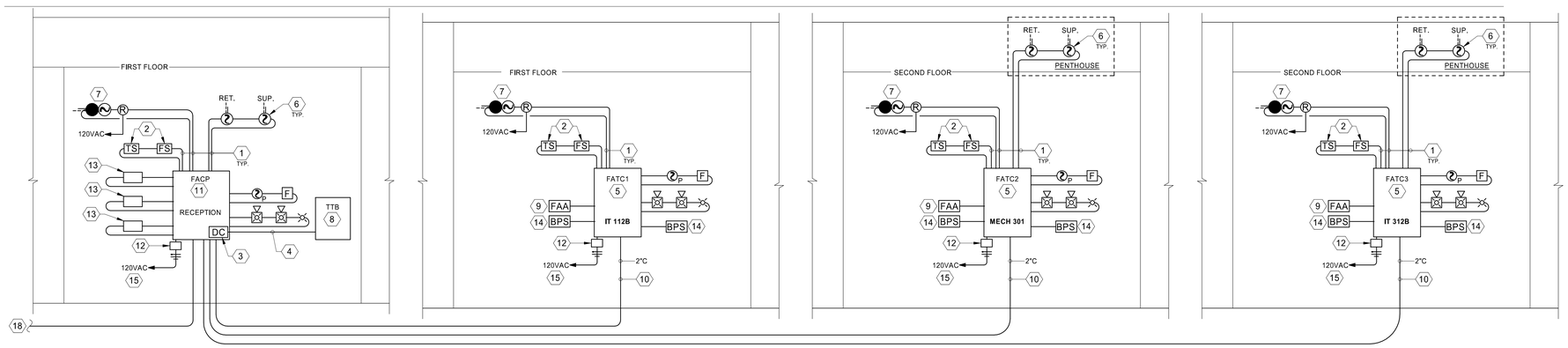
C. REFER TO SPECIFICATION SECTION 283111 FOR FIRE ALARM SYSTEM REQUIREMENTS.

D. FIRE ALARM WIRING AND CABLING SHALL BE IN CONFORMANCE WITH NEC AND TYPE SHALL BE AS RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER. SEAL ALL PENETRATIONS THROUGH WALLS, FLOOR, CEILINGS AND ROOF PER ARCHITECTURAL SPECIFIED REQUIREMENTS. SEAL WILL MATCH THE FIRE RATING OF EACH PENETRATION LOCATION.

E. FIRE ALARM SYSTEM SHALL BE HONEYWELL, NO EXCEPTIONS.

FIRE ALARM KEYNOTE LEGEND

1. MINIMUM 3/4" CONDUIT AND FIRE ALARM CABLING AS REQUIRED BY THE FIRE ALARM MANUFACTURER.
2. INDEPENDENTLY SUPERVISE EACH FLOW AND TAMPER SWITCH WITH AN ADDRESSABLE MODULE. REFER TO FIRE PROTECTION/ PLUMBING PLANS FOR EACH LOCATION.
3. DIGITAL COMMUNICATOR FOR CENTRAL STATION MONITORING.
4. CONDUIT AND COMMUNICATIONS CABLING FOR CENTRAL STATION REPORTING.
5. FIRE ALARM TERMINAL CABINETS (FATC) WILL BE FACTORY MANUFACTURED, UL LABELED PANELS. THE FATC WILL ENCLOSE ALL TERMINATIONS FOR DEVICES ON THE FLOOR OR AREA IT SERVES. INTELLIGENT CARDS AS REQUIRED OR INDEPENDENT OPERATION. POWER SUPPLIES AND STANDBY BATTERIES WILL BE PROVIDED AT EACH LOCATION.
6. DUCT SMOKE DETECTOR, FURNISHED BY DIVISION 28, INSTALLED IN DUCT BY DIVISION 23, CONNECTED, WIRED AND TESTED BY DIVISION 28. REFERENCE MECHANICAL CONTROL DIAGRAMS FOR MECHANICAL INTERCONNECTIONS. PROVIDE DUCT DETECTORS IN NEW AND EXISTING UNITS WHERE 2000CFM AND ABOVE EXIST. INSTALL PER CODE.
7. FIRE SMOKE DAMPER, ROUTE 120VAC VIA FIRE ALARM ADDRESSABLE RELAY.
8. TELEPHONE TERMINAL BOARD.
9. PROVIDE NEW ANNUNCIATOR PANEL IN VESTIBULE 001 OR AS DIRECTED BY FIRE MARSHALL. FIELD COORDINATE EXACT LOCATION.
10. PROVIDE RACEWAY PATH OVERHEAD OR UNDERGROUND TO FATC'S.
11. FIRE ALARM SYSTEM F.A.C.P.
12. PROVIDE SURGE PROTECTION FOR CIRCUIT TO FIRE ALARM PANEL.
13. REFER TO ES101 FOR PIV LOCATIONS AND/OR HOT BOX LOCATIONS.
14. WHERE POWER SUPPLIES ARE INSTALLED OUTSIDE OF FACP/FATC, CONTRACTOR WILL PROVIDE 120V/20A STAND-BY POWER CIRCUIT TO UNITS FROM NEAREST PANEL. CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH FIRE ALARM INSTALLER AT TIME OF SUBMITTALS TO VERIFY NEED.
15. REFER TO SHEET SERIES "EP" FOR CIRCUITS SERVING THIS SYSTEM.



1 FIRE ALARM RISER DIAGRAM

SCALE: NOT TO SCALE

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A DESIGN/BUILD FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

ENTIRE FIRE ALARM SYSTEM WILL BE IN RACEWAYS; NO EXCEPTIONS!

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JOHN F. HECK IV — STATE OF NEW MEXICO — NO. 12498 — REGISTERED PROFESSIONAL ENGINEER

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CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

GROUNDING DIAGRAM AND FIRE ALARM RISER

E-602

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:42 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy

LIGHTING SEQUENCE OF OPERATION

A. **CLASSROOMS:**
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSHBUTTON SWITCHES AT ENTRY IN ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY, A SINGLE OUTLET MULTI-BUTTON DEVICE, WILL PROVIDE THE FOLLOWING CONTROL:
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 50% LUMEN OUTPUT. LABEL BUTTON "A"
      - ONE BUTTON FROM TOP WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 100% LUMEN OUTPUT. LABEL BUTTON "B".
      - ONE BUTTON WILL BE PROGRAMMED FOR A/V MODE WITH "FRONT" OF GLASS LUMINAIRES TURNED OFF AND "BACK" OF CLASS LUMINAIRES PROGRAMMED TO 50% LUMEN OUTPUT. LABEL BUTTON "C".
      - ONE BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "D".
      - ONE BUTTON WILL CONTROL LUMINAIRES IN DAYLIGHT ZONE UP TO 50%. LABEL BUTTON "E".
3. DAYLIGHT SENSORS WILL BE PROVIDED IN DESIGNATED DAYLIGHT ZONES SO THAT IF THE DAYLIGHT SENSORS SENSE 40FC OR HIGHER, LIGHTING IN DAYLIGHT ZONE SHALL BE OFF UNLESS USER PUSHES ANOTHER BUTTON TO OVERRIDE DAYLIGHT CONTROL. THE DESIGNATED DAYLIGHT ZONE IS THE DISTANCE FROM THE WALL WITH WINDOW(S) LATERALLY EQUAL TO THE HEIGHT FROM THE FLOOR TO THE TOP OF THE WINDOW(S) IN EACH ROOM.
4. WHEN PERSONNEL LEAVE, THE ROOM VACANCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD. SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
5. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD ADJACENT TO SWITCH SECURELY ATTACHED TO THE WALL. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= 50% LIGHTING
   B= 100% LIGHTING
   C=A/V MODE
   D=DAYLIGHT ZONE 50%
   E=ALL OFF
6. PROVIDE THE FOLLOWING WATT STOPPER DLM SYSTEM DEVICES IN ROOM:
   a. ROOM CONTROLLER SERIES LMRC RATED FOR PROGRAMMED CONTROL/POWER.
   b. DUAL TECHNOLOGY VACANCY SENSOR SERIES LMDC.
   c. NECESSARY QUANTITY OF BUTTONS. SINGLE OUTLET DIGITAL WALL SWITCH SERIES LMSW.
   d. DAYLIGHT SENSOR FOR SYSTEM.

B. **RECEPTION, WORKROOM + LOUNGE:**
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSH BUTTON SWITCHES AT ENTRY TO ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY A SINGLE DIMMING ON/OFF SWITCH WILL CONTROL ALL LUMINAIRES IN ROOM.
3. DAYLIGHT SENSORS WILL BE PROVIDED IN DESIGNATED DAYLIGHT ZONES SO THAT IF THE DAYLIGHT SENSORS SENSE 40FC OR HIGHER, LIGHTING IN DAYLIGHT ZONE SHALL BE OFF UNLESS USER PUSHES ANOTHER BUTTON TO OVERRIDE DAYLIGHT CONTROL. THE DESIGNATED DAYLIGHT ZONE IS THE DISTANCE FROM THE WALL WITH WINDOW(S) LATERALLY EQUAL TO THE HEIGHT FROM THE FLOOR TO THE TOP OF THE WINDOW(S) IN EACH ROOM.
4. WHEN PERSONNEL LEAVE THE ROOM THEY CAN EITHER TURN LIGHTS OFF WITH SWITCH OR VACANCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER SET PERIOD OF TIME SET BY OWNER. AT A MINIMUM FACTORY SETTINGS WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
5. PROVIDE THE FOLLOWING WATTSTOPPER DLM SYSTEM DEVICES IN ROOM.
   a. ROOM CONTROLLER SERVES LMRC RATED FOR PROGRAMMING CONTROL.
   b. DUAL TECHNOLOGY VACANCY SENSOR SERIES LMDC.
   c. SINGLE OUTLET ON/OFF DIMMING DIGITAL SWITCH SERIES LMDM.
   d. DAYLIGHT SENSOR FOR SYSTEM.

C. **OFFICES, LIBRARY/READING, NURSE, SECURITY:**
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM WILL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSH BUTTON SWITCHES AT ENTRY TO ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY, A SINGLE OUTLET, SENSOR/DIMMING/ON/OFF SWITCH WILL CONTROL ALL LUMINAIRES IN ROOM.
   c. DAYLIGHT SENSOR FOR SYSTEM.
3. DAYLIGHT SENSORS WILL BE PROVIDED IN DESIGNATED DAYLIGHT ZONES SO THAT IF THE DAYLIGHT SENSORS SENSE 40FC OR HIGHER, LIGHTING IN DAYLIGHT ZONE SHALL BE OFF UNLESS USER PUSHES ANOTHER BUTTON TO OVERRIDE DAYLIGHT CONTROL. THE DESIGNATED DAYLIGHT ZONE IS THE DISTANCE FROM THE WALL WITH WINDOW(S) LATERALLY EQUAL TO THE HEIGHT FROM THE FLOOR TO THE TOP OF THE WINDOW(S) IN EACH ROOM.
4. WHEN PERSONNEL LEAVE THE ROOM THEY CAN EITHER TURN LIGHTS OFF WITH SWITCH OR VACANCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER SET PERIOD OF TIME SET BY OWNER. AT A MINIMUM FACTORY SETTINGS WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
5. PROVIDE THE FOLLOWING WATTSTOPPER SYSTEM DEVICES IN ROOM:
   a. SINGLE OUTLET ON/OFF/DIMMER/ VACANCY DIGITAL SWITCH SERIES LMDW.
   b. DAYLIGHT SENSOR FOR SYSTEM.

D. **CONFERENCE ROOMS:**
1. UNOCCUPIED ROOMS
   WHEN PERSONNEL LEAVE ROOM THEY CAN TURN LIGHTING OFF WITH SWITCH OR THE OCCUPANCY SENSOR(S) IN THE ROOM TIMES OUT. ALL LIGHTING IN ROOM WILL BE DISABLED AND DE-ENERGIZED.
2. OCCUPIED ROOM
   a. OCCUPANCY SENSOR WILL AUTOMATICALLY TURN ON ALL LUMINAIRES AS PEOPLE ENTER ROOM.
   b. LUMINAIRES CAN ALSO BE ENABLED BY SWITCH LOCATED AT ENTRY TO ROOM.
   c. DURING OCCUPANCY, A THREE BUTTON SWITCH WILL PROVIDE THE FOLLOWING CONTROL:
      - TOP BUTTON WILL CONTROL LUMINAIRES DESIGNATED WITH "a". LABEL BUTTON "A"
      - MIDDLE BUTTON WILL CONTROL LUMINAIRES DESIGNATED WITH "b" FOR FULL DIMMING. LABEL BUTTON "B"
      - BOTTOM BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "C".
3. DAYLIGHT SENSORS WILL BE PROVIDED IN DESIGNATED DAYLIGHT ZONES SO THAT IF THE DAYLIGHT SENSORS SENSE 40FC OR HIGHER, LIGHTING IN DAYLIGHT ZONE SHALL BE OFF UNLESS USER PUSHES ANOTHER BUTTON TO OVERRIDE DAYLIGHT CONTROL. THE DESIGNATED DAYLIGHT ZONE IS THE DISTANCE FROM THE WALL WITH WINDOW(S) LATERALLY EQUAL TO THE HEIGHT FROM THE FLOOR TO THE TOP OF THE WINDOW(S) IN EACH ROOM.
4. WHEN PERSONNEL LEAVE THE ROOM THEY CAN EITHER TURN LIGHTS OFF WITH SWITCH OR VACANCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER SET PERIOD OF TIME SET BY OWNER. AT A MINIMUM FACTORY SETTINGS WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
5. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD ADJACENT TO SWITCH. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON.
   A = CAN LUMINAIRES
   B = LINEAR LUMINAIRES
   C = ALL OFF
6. PROVIDE THE FOLLOWING WATTSTOPPER SYSTEM DEVICES IN ROOM:
   a. DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR DT-355. LOCATED PER MANUFACTURES RECOMMENDATIONS. SHOWN ON PLAN FOR BID PURPOSES.
   b. SINGLE POLE TOGGLE SWITCH; LINE VOLTAGE RATED FOR LOAD.
   c. THREE BUTTON, SINGLE OUTLET DIGITAL DIMMER SWITCH SERIES LMSW.

E. **BOYS & GIRLS RESTROOM, RESTROOMS, LOCKERS:**
1. OCCUPANCY SENSOR WILL AUTOMATICALLY TURN ON ALL LUMINAIRES AS PEOPLE ENTER ROOM.
2. LUMINAIRES CAN ALSO BE ENABLED BY SWITCH LOCATED AT ENTRY TO ROOM.
3. WHEN PERSONNEL LEAVE ROOM THEY CAN TURN LIGHTING OFF WITH SWITCH OR THE OCCUPANCY SENSOR(S) IN THE ROOM TIMES OUT. ALL LIGHTING IN ROOM WILL BE DISABLED AND DE-ENERGIZED.
4. PROVIDE THE FOLLOWING WATTSTOPPER SYSTEM DEVICES IN ROOM:
   A. DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR DT-355. LOCATED PER MANUFACTURES RECOMMENDATIONS. SHOWN ON PLAN FOR BID PURPOSES.
   B. SINGLE POLE TOGGLE SWITCH; LINE VOLTAGE RATED FOR LOAD.
   C. IN SOME ROOMS EXHAUST FAN WILL BE CONTROLLED VIA ROOM'S LIGHTING CONTROL.

F. **STORAGE, EVS:**
1. OCCUPANCY SENSOR WILL AUTOMATICALLY TURN ON ALL LUMINAIRES AS PEOPLE ENTER ROOM.
2. LUMINAIRES CAN ALSO BE ENABLED BY ON/OFF SWITCH
3. WHEN PERSONNEL LEAVE ROOM THEY CAN TURN LIGHTING OFF WITH SWITCH OR THE OCCUPANCY SENSOR(S) IN THE ROOM TIMES OUT. ALL LIGHTING IN ROOM WILL BE DISABLED AND DE-ENERGIZED.
4. PROVIDE THE FOLLOWING WATTSTOPPER SYSTEM DEVICES IN ROOM:
   A. COMBINATION SENSOR AND ON/OFF SWITCH SERIES PW.
   B. IN LARGE STORAGE ROOMS, 250 SQ FT OR LARGER, PROVIDE A CEILING MOUNTED SENSOR.

G. **ELECTRICAL, I.T., MECHANICAL, PUMP ROOM, FIRE RISER, TECH STOR., MDF, KITCHEN, CONCESSIONS:**
1. ALL LUMINAIRES IN ROOM WILL BE ENGAGED BY SWITCH(ES). THESE LUMINAIRES WILL NOT AUTOMATICALLY ENERGIZE OR DE-ENERGIZE.
2. PROVIDE THE FOLLOWING FOR CONTROL:
   A. SPECIFIED TOGGLE SWITCH INDICATED ON PLANS.

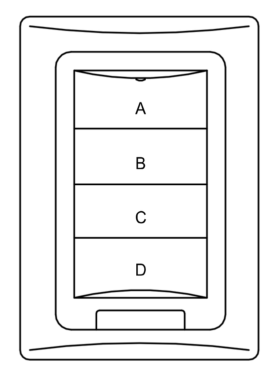
H. **CORRIDORS, HALLWAYS, VESTIBULES, MULTIPURPOSE ROOM, ALCOVE:**
1. LOCAL CONTROL OF LUMINAIRES WILL BE VIA TOGGLE SWITCHES.
2. OVERALL CONTROL WILL BE PROVIDED BY TIMECLOCK PROGRAMMED ON AT 5AM AND OFF AT 11 PM. COORDINATE EXACT ON/OFF TIMES OF PROGRAM WITH OWNER IN FIELD AT TIME OF SYSTEM PROGRAMMING.

I. **EXTERIOR BUILDING LIGHTING:**
1. ALL EXTERIOR BUILDING MOUNTED, PARKING AREA, WALKWAY LIGHTING WILL BE PROGRAMMED TO COME ON EITHER BY PHOTO CELL OR ASTRONOMICAL TIME SETTING.
2. ALL LIGHTING WILL COME ON AT OR 1/2 HOUR BEFORE DUSK AND OFF AT OR 1/2 HOUR AFTER DAWN.
3. ALL TIME SETTINGS WILL BE COORDINATED WITH OWNER AT TIME OF PROGRAMMING IN FIELD.

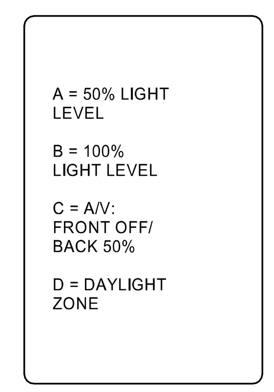
J. **SPECIAL EDUCATION, LIFE SKILLS:**
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSHBUTTON SWITCHES AT ENTRY IN ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. DURING OCCUPANCY, A BUTTON SWITCH QUANTITY OF SWITCH AS NEEDED, WILL PROVIDE THE FOLLOWING CONTROL:
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 50% LUMEN OUTPUT. LABEL BUTTON "A"
      - ONE BUTTON FROM TOP WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO 100% LUMEN OUTPUT. LABEL BUTTON "B".
      - ONE BUTTON WILL BE PROGRAMMED FOR A/V MODE WITH "FRONT" OF GLASS LUMINAIRES TURNED OF AND "BACK" OF CLASS LUMINAIRES PROGRAMMED TO 50% LUMEN OUTPUT. LABEL BUTTON "C".
      - ONE BUTTON WILL BE PROGRAMMED TO TURN ALL LUMINAIRES IN ROOM OFF. LABEL BUTTON "D".
      - ONE BUTTON WILL CONTROL LUMINAIRES IN DAYLIGHT ZONE UP TO 50%.
      - ONE BUTTON WILL CONTROL LUMINAIRES IN DAYLIGHT ZONE UP TO 50%.
      - ONE BUTTON WILL CONTROL COLOR TUNING ON ALL LUMINAIRES.
   c. DURING OCCUPANCY, A BUTTON SWITCH, QUANTITY OF SWITCH AS NEEDED, WILL PROVIDE THE FOLLOWING COLOR TEMPERATURE CONTROL:
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO RAISE COLOR TEMPERATURE TO MAXIMUM 6500K. LABEL BUTTON "DAYLIGHT".
      - ONE BUTTON FROM TOP WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO RAISE COLOR TEMPERATURE TO MAXIMUM 4500K. LABEL BUTTON "COOL".
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO LOWER THE COLOR TEMPERATURE TO 3500K. LABEL BUTTON "NATURAL".
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO LOWER THE COLOR TEMPERATURE TO 2500K. LABEL BUTTON "WARM".
      - TWO BUTTONS WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES IN ROOM TO RAISE OR LOWER THE COLOR TEMPERATURE RANGING FROM 2000K TO 6500K. LABEL BUTTON(S) "COOL LIGHT" AND "WARM LIGHT".
3. DAYLIGHT SENSORS WILL BE PROVIDED IN DESIGNATED DAYLIGHT ZONES SO THAT IF THE DAYLIGHT SENSORS SENSE 40FC OR HIGHER IN ROOM ALL LIGHTING WILL BE OFF UNLESS USER PUSHES ANOTHER BUTTON TO OVERRIDE DAYLIGHT CONTROL.
4. WHEN PERSONNEL LEAVE, THE ROOM VACANCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER A SET TIME PERIOD. SET TIME WILL BE PER OWNER'S DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
5. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   A= 50% LIGHTING
   B= 100% LIGHTING
   C=A/V MODE
   D=DAYLIGHT ZONE 50%
   E=ALL OFF
6. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVER PLATE. PLACARD WILL INDICATE THE FOLLOWING PER EACH BUTTON:
   DAYLIGHT= MID-DAY 6500K TEMP.
   COOL= BLUE 4500K TEMP.
   NATURAL = NATURAL 3500K TEMP.
   WARM=RED 2500K TEMP.
7. PROVIDE THE FOLLOWING WATT STOPPER DLM SYSTEM DEVICES IN ROOM:
   A . ROOM CONTROLLER SERIES LMRC RATED FOR PROGRAMMED CONTROL/POWER.
   B. DUAL TECHNOLOGY VACANCY SENSOR SERIES LMDC.
   C. NECESSARY QUANTITIES OF BUTTONS. SINGLE OUTLET DIGITAL WALL SWITCH SERIES LMSW.
   D. DAYLIGHT SENSOR FOR SYSTEM.

K. **MULTIPURPOSE ROOM:**
1. UNOCCUPIED MODE:
   WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
2. OCCUPIED MODE:
   a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSH BUTTON SWITCH. SWITCH AT ENTRY OF ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
   b. PROVIDE BUTTON SWITCH, QUANTITY OF SWITCHES AS NEEDED FOR CONTROL AS FOLLOWS:
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES TO 50% LUMEN OUTPUT. LABEL SWITCH AS "A".
      - ONE BUTTON WILL BE PROGRAMMED TO CONTROL ALL LUMINAIRES TO 100% LUMEN OUTPUT. LABEL SWITCH AS "B".
      - ONE BUTTON WILL BE FOR TURN OFF ALL LUMINAIRES. LABEL SWITCH "C".
      - ONE SWITCH WILL CONTROL ALL LIGHTING IN DAYLIGHT ZONE TO 50% LUMEN OUTPUT.
3. DAYLIGHT SENSORS WILL BE PROVIDED IN DESIGNATED DAYLIGHT ZONES SO THAT IF THE DAYLIGHT SENSORS SENSE 40FC OR HIGHER, LIGHTING IN DAYLIGHT ZONE SHALL BE OFF UNLESS USER PUSHES ANOTHER BUTTON TO OVERRIDE DAYLIGHT CONTROL. THE DESIGNATED DAYLIGHT ZONE IS THE DISTANCE FROM THE WALL WITH WINDOW(S) LATERALLY EQUAL TO THE HEIGHT FROM THE FLOOR TO THE TOP OF THE WINDOW(S) IN EACH ROOM.
4. WHEN PERSONNEL LEAVE THE ROOM THE VACANCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LIGHTING AUTOMATICALLY AFTER A SET TIME PERIOD. SET TIME WILL BE PER OWNERS DESIRED TIME. A MINIMUM FACTORY SETTING WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
5. CONTRACTOR WILL PROVIDE AN ENGRAVED PLACARD ADJACENT TO SWITCH. PLACARD WILL BE SAME SIZE AS STANDARD SWITCH COVERPLATE. LABEL COVERPLATE WITH CONTROL SCHEMATIC.
   A = 50% LIGHTING
   B = 100% LIGHTING
   C = OFF
   D = DAY-LIGHTING / 50%
6. PROVIDE THE FOLLOWING WATTSTOPPER DLM SYSTEM DEVICES IN ROOM:
   A . ROOM CONTROLLER SERIES LMRC RATED FOR PROGRAMMED NEEDS.
   B. DUAL TECHNOLOGY VACANCY SENSOR SERIES FOR HIGH BAY USE.
   C. SINGLE OUTLET DIGITAL PUSHBUTTON SWITCH; QUANTITY OF PUSHBUTTON AS NEEDED. SERIES LMSW.

1 — LIGHTING SEQUENCE OF OPERATIONS
SCALE: NOT TO SCALE



FOUR BUTTON DLM WALL SWITCH

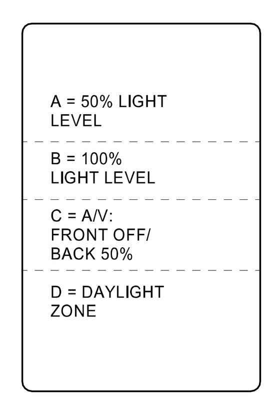


LIGHTING CONTROL DESCRIPTION PLACARD

MOUNT ADJACENT TO SWITCH(ES)

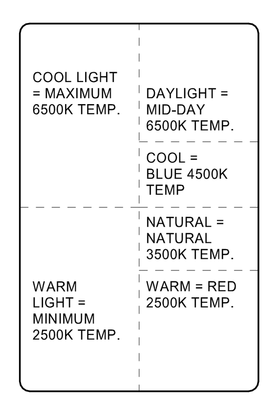
REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION

3 — WATT STOPPER 4-BUTTON DETAIL
SCALE: NOT TO SCALE



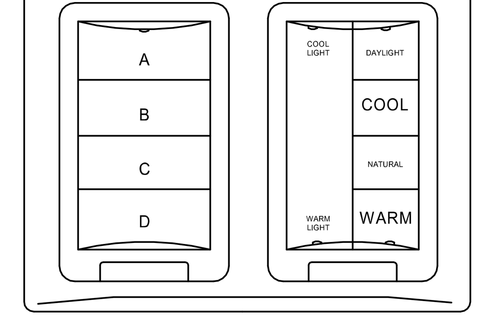
LIGHTING CONTROL DESCRIPTION PLACARD

MOUNT 2 INCHES ABOVE SWITCHES



LIGHTING CONTROL DESCRIPTION PLACARD

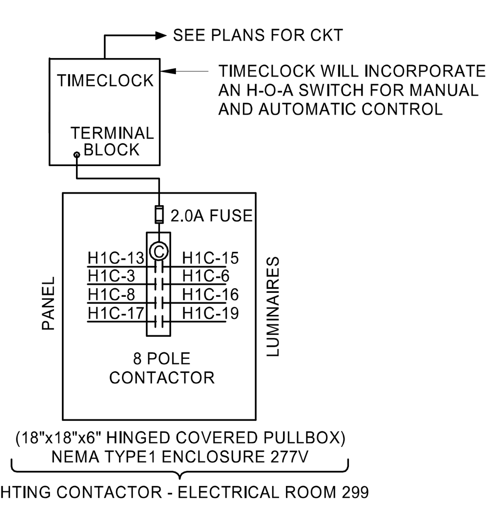
MOUNT 2 INCHES ABOVE SWITCHES



LMSW-104 LMSW-105-CCT

REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION

2 — WATT STOPPER 4-BUTTON DETAIL
SCALE: NOT TO SCALE



CONTROL SEQUENCE:
(a) ON AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.
(b) OFF AT PRESET TIME; COORDINATE WITH OWNER'S REPRESENTATIVE.

CORRIDOR

4 — LIGHTING CONTACTOR DETAIL ELECTRICAL ROOM
SCALE: NOT TO SCALE

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JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER
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Date: 2024.03.21 15:21:39 -06'00'

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
LIGHTING AND OTHER DIAGRAMS

E-603

LUMINAIRE SCHEDULE NOTES:

1. MANUFACTURERS CATALOG NUMBERS REPRESENT MANUFACTURER SERIES. SHOP DRAWING SUBMITTALS WILL INCLUDE ALL PART NUMBERS REPRESENTING ALL ITEMS OF THIS LUMINAIRE SCHEDULE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER LUMINAIRES TO INCLUDE ALL PARTS INDICATED ON SCHEDULE FOR EACH LUMINAIRE. SUBMITTAL WILL CALL OUT EACH PART CLEARLY.
2. LUMINAIRE REQUIRES MOUNTING COORDINATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS LUMINAIRE MAY REQUIRE A HIGHER OR LOWER MOUTING FROM THAT PROVIDED ON THIS SCHEDULE OR NOTES ON PLAN DUE TO ARCHITECTURAL REQUIREMENTS OR CONSTRUCTION CONDITIONS.
3. ALL LUMINAIRES ON THIS LUMINAIRE SCHEDULED ARE APPROVED FOR BID ON THIS PROJECT. IF A LUMINAIRE IS SUBMITTED THAT IS NOT ON THIS SCHEDULE IT WILL BE REJECTED.
4. SHOULD ANY LUMINAIRE BE NOT AVAILABLE AT TIME OF SUBMITTAL, CONTRACTOR WILL USE ONE OF THE OTHER LUMINAIRES INDICATED IN EACH TYPE FOR REPLACEMENT. NO OTHERS WILL BE ACCEPTED

ELECTRICAL LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	VOLTS	MOUNTING	LED DRIVER	EM. BAT. PK.	LENS	MANUFACTURER / MODEL	NOTES
A1	1' x 4" LED LINEAR FLAT PANEL RECESSED. 4000K.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING	LED, 4000K, 45 MAX WATTS, 4900 MINIMUM DELIVERED LUMENS	NONE	WHITE ACRYLIC	DAYBRITE #1FPZ45L840-4-DS-UNV-DIM	1,3,4
A1F	1' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. RECESSED, LOW PROFILE.	277V OR 120V MULTI. TAP (UNV.)	RECESSED GYP. BOARD	LED, 4000K, 40 MAX WATTS, 3900 DELIVERED LUMENS	NONE	WHITE ACRYLIC	DAYBRITE #1FPZ45L840-4-DS-UNV-DIM-FMA14FP METALUX #14CGT4040C COLUMBIA #CFP14-LSCS LITHONIA #EPANL-1X4-4000LM-80CRI-40K-MIN10-ZT-MVOLT-DGA1	1,3,4
A4	2' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. FLAT PANEL, VERY LOW PROFILE.	277V OR 120V MULTI. TAP (UNV.)	RECESSED T-GRID	LED, 4000K, 45 MAX WATTS, 4900 MINIMUM DELIVERED LUMENS	NONE	WHITE ACRYLIC	DAYBRITE #2FPZ54L840-4-DS-UNV-DIM METALUX #24CGTX-55-L840 COLUMBIA #CFP24-LSCS-PLD10M LITHONIA #EPANL LED-2X4-5400LM-80CRI-40K-MIN10-ZT-MVOLT	1,3,4
A4C	2' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT AND COLOR TUNING RANGE FROM 2000K TO 6500K LUMINAIRE. RECESSED FLAT PANEL.	277V OR 120V MULTI. TAP (UNV.)	RECESSED T-GRID	LED, 4000K, 45 MAX WATTS, 4900 MINIMUM DELIVERED LUMENS	NONE	WHITE ACRYLIC	ALS #LPTW-4-BACKLIT-WHITE LITHONIA# CPXTW-2X4-TUWH-RHYR-6000LM-80CRI-SWL -MVOLT-NLT / NLIGHT# NIO-EZDL-CCT COLUMBIA #SRP24-3050T-HL-G-EDU METALUX #24APR-58-L92765-14000-L92765-UNV-W2A-W 2A-XX	1,3,4
AK	2' X 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT TROFFER LUMINAIRE WITH INVERTED LENS. FLAT PANEL, VERY LOW PROFILE	277V OR 120V MULTI. TAP (UNV.)	RECESSED T-GRID	LED, 4000K, 47 MAX WATTS, 4400 MINIMUM DELIVERED LUMENS	NONE	PRISMATIC A12.125 INVERTED ACRYLIC LENS	DAYBRITE #2FPZ48L840-4-DS-UNV-DIM METALUX #24CGT4540C COLUMBIA #LJT24-40MLG-FSA-12125(INV)-EDU LITHONIA #EPANL-LED-2X4-4800LM-80CRI-40K-MIN10-ZT-MVOLT	1,3,4
B	4' GENERAL PURPOSE LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, WITH DIFFUSING LENS.	277V OR 120V MULTI. TAP (UNV.)	WALL MOUNTED AT 8'-6" AFF, SURFACE MOUNTED TO CEILING, OR JOISTS.	LED, 4000K, 50 MAX WATTS, 4700 MINIMUM DELIVERED LUMENS	NONE	FROSTED ACRYLIC	DAYBRITE #FSS455L840-UNV-DIM METALUX #4ST2L40SC3-4ST2L40SC3 COLUMBIA #MPS4-40HL-C-W-EDU LITHONIA #ZL1N-L48-5000LM-FST-MVOLT-40K-90CR-WH	1,3,4
C4	4" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING	LED, 4000K, 20 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	NONE	FROSTED GLASS LENS	LIGHTOLIER#4RN/Z4RDL-15-940-W-O-CD-Z10-U PEACHTREE LIGHTING# 4BLRD-32-DMLV10-40-90-SH-ICE-C-WL-277 PRESCOLITE #LTR-4RD-H-ML-25L-DM1/LTR-4RD-T-ML-40-8-WD-S-B24 HALO #HC4-10-D010-HM40525-940-WD-H	1,3,4
C4E	4" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING	LED, 4000K, 20 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	INTEGRAL UL924 NiCAD BATTERY.	FROSTED GLASS LENS	LIGHTOLIER#4RN-EM6/Z4RDL-15-940-W-O-CD -Z10-U HALO #HC4-10-D010-IEM14-HM40525-940-WD-H PRESCOLITE #LTR-4RD-H-ML-25L-DM1-EM/LTR-4RD-T-ML-4 0-8-WD-S-B24 PEACHTREE LIGHTING# 4BLRD-32-DMLV10-40-90-SH-ICE-C-WL-EML1-277	1,3,4
C6	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING	LED, 4000K, 20 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	NONE	FROSTED GLASS LENS	LIGHTOLIER #6RN-Z6RDL-15-940-W-O-CD-Z10-U HALO #HC6-15-D010-HM6-12-840-61WHD PRESCOLITE #LFR-6RD-M-15L-40K-8-DM1/LFR-6RD-T-S-CL/ LFR-6RD-H PEACHTREE #6BLRD-17-DMVL10-40K-80-SH-ICE C-WL-27	1,3,4
C6E	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT. EMERGENCY BATTERY BACKUP.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING	LED, 4000K, 20 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	INTEGRAL UL924 NiCAD BATTERY.	FROSTED GLASS LENS	LIGHTOLIER #6RN-EM6-Z6RDL-15-940-W-O-CD-Z10-U HALO #HC6-15-D010-IEM7-HM6-12-840-61WHD PRESCOLITE #LFR-6RD-M-15L-40K-8-DM1-EM/LFR-6RD-T-S-CL/LFR-6RD-H	
C6W	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING		NONE	NONE	METALUX # LDS6C-15-90-40-D010-PS-2-MW OR APPROVED EQUAL	
C6WE	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING		YES	NONE	METALUX # LDS6C-15-90-40-D010-PS-2-MW-EMBOD6ST OR APPROVED EQUAL	
E1	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (SINGLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADIUM EMERGENCY BATTERY PACK.	277V OR 120V MULTI. TAP (UNV.)	SURFACE CEILING OR WALL AT 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	INTEGRAL UL924 NiCAD BATTERY.	BRUSHED ALUMINUM FACE	LIGHTALARMS #1-XDND-B-GB-VR ISOLITE #EDC-EM-G-1-BA-BK-MTEBP DUALLITE #SE-S-G-BNE LITHONIA #LE-S-1-G-ELN	1,2,3,4
E2	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (DOUBLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADIUM EMERGENCY BATTERY PACK.	277V OR 120V MULTI. TAP (UNV.)	SURFACE CEILING OR WALL AT 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	INTEGRAL UL924 NiCAD BATTERY.	BRUSHED ALUMINUM FACE	LIGHTALARMS #2-XDND-B-GB-VR ISOLITE #EDC-EM-G-2-BA-BK-MTEBP DUALLITE #SE-D-G-BNE LITHONIA #LE-S-2-G-ELN	1,2,3,4
E3	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (DOUBLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADIUM EMERGENCY BATTERY PACK. WET RATED.	277V OR 120V MULTI. TAP (UNV.)	EXT. SURFACE CEILING OR WALL AT 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	INTEGRAL UL924 NiCAD BATTERY.	BRUSHED ALUMINUM FACE/POLYCARBONATE	LIGHTALARMS #XVE - FINISH	1,2,3,4
E4	COMBINATION EXIT/EMERGENCY LIGHT. EMG. BATT. PACK.	277V OR 120V MULTI. TAP (UNV.)	SURFACE CEILING OR WALL AT 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	(2) TWO LED, 4 MAX WATTS	UL924 NiCAD BATTERY.	NONE	COOPER#APCH7RSQ	

ELECTRICAL LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	VOLTS	MOUNTING	LED DRIVER	EM. BAT. PK.	LENS	MANUFACTURER / MODEL	NOTES
EM	CONTEMPORARY, LOW PROFILE EMERGENCY BATTERY PACK FIXTURE WITH AN INJECTED MOLDED, HIGH IMPACT, UV STABLIZED THERMOPLASTIC HOUSING, 6V LEAD CALCIUM BATTERY, ADA COMPLIANT, ADJUSTABLE LAMP SOCKETS, SHORT CIRCUIT AND BROWNOUT PROTECTION.	277V OR 120V MULTI. TAP (UNV.)	SURFACE AT 8'-6" AFF OR CEILING MOUNTED UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	(2) TWO LED, 4 MAX WATTS	INTEGRAL UL924 NiCAD BATTERY.	ACRYLIC FRESNAL	LIGHTALARMS #CM-PB-LA SURE-LITES #APEL-MINI DUALLITE #EV-2 LITHONIA #ELM2-LED	1,3,4
F	SLIM, LOW PROFILE, FULLY GASKETED DIE CAST ENCLOSURE, IP65 WET LOCATION RATED, HIGH IMPACT UV RESISTANT POLYCARBONATE LENS, FULL CUT OFF. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. MUST MEET B.U.G. RATING B1 U0 G0 OR BETTER.	277V OR 120V MULTI. TAP (UNV.)	EXTERIOR WALL SURFACE MOUNT REFER TO ARCH. ELEV. A-202 SERIES FOR HEIGHT	LED, 4000K, 30 MAX WATTS, 2900 MINIMUM DELIVERED LUMENS	NONE	IMPACT RESISTANT UV RESISTANT POLYCARBONATE	ILP # SWP-3L-U-CCTS-XX LUMARK #AXCS2A TRACELITE #WLZ2-4-4K-XX LITHONIA #WDGE1- LED-4W-P2-40K-80CRI-VW-MVOLT-SRM-DNAXD	1,2,3,4
FE	SLIM, LOW PROFILE, FULLY GASKETED DIE CAST ENCLOSURE, IP65 WET LOCATION RATED, HIGH IMPACT UV RESISTANT POLYCARBONATE LENS, FULL CUT OFF. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. MUST MEET B.U.G. RATING B1 U0 G0 OR BETTER.	277V OR 120V MULTI. TAP (UNV.)	EXTERIOR WALL SURFACE MOUNT REFER TO ARCH. ELEV. A-202 SERIES FOR HEIGHT	LED, 4000K, 30 MAX WATTS, 5000 MINIMUM DELIVERED LUMENS	INTEGRAL UL924 NiCAD BATTERY.	IMPACT RESISTANT UV RESISTANT POLYCARBONATE	ILP #SWP-5L-U-CCTS-XX-LEDBBCT LUMARK #AXCS5A-CBP-CEC TRACELITE #WLZ4-4-4K-XX-BB LITHONIA #WDGE2-LED-10W-P5-40K-80CRI-VW-MVOLT-SRM-E4WH-DNAXD	1,3,4
L1R	4' x 4" LED LINEAR RECESSED. 4000K.	277V OR 120V MULTI. TAP (UNV.)	RECESSED IN CEILING	LED, 4000K, 40 MAX WATTS, 3900 DELIVERED LUMENS			MARK#SL4L LOP 4FT FLP FL 90CRI 40K 1000LMF DARK 57VDC FL/SLVT DCHUB	
L11	LED TAPE LIGHT IN EXTRUDED ALUMINIUM WITH DIFFUSE OPAL LENS. 4000K	277V OR 120V MULTI. TAP (UNV.)	RECESSED CEILING/WALL	LED, 4000K, 96 MAX WATTS, 2.8W/PLF MINIMUM DELIVERED LUMENS	UL924 NiCAD BATTERY.	IMPACT RESISTANT UV RESISTANT ACRYLIC	LUMINII#MKRW 12-144-72SO-40K F-GS-WH-B-1	1,2,3,4
PD1	75" DIA. LED RING PENDANT. FINISH/OPTIONS PER ARCHITECT.	277V OR 120V MULTI. TAP (UNV.)	AIRCRAFT CABLE SUSPENDED-HEIGHT PER ARCHITECT	LED, 4000K, 45 MAX WATTS, 4900 MINIMUM DELIVERED LUMENS	NONE	FROSTED ACRYLIC	SATTLER INTERLUX DUETTO DIRECT#1632	1,2
PD2	49" DIA. LED RING PENDANT. FINISH/OPTIONS PER ARCHITECT.	277V OR 120V MULTI. TAP (UNV.)	AIRCRAFT CABLE SUSPENDED-HEIGHT PER ARCHITECT	LED, 4000K, 45 MAX WATTS, 4900 MINIMUM DELIVERED LUMENS	NONE	FROSTED ACRYLIC	SATTLER INTERLUX DUETTO DIRECT#1630	1,2
PD3	36" DIA. LED RING PENDANT. FINISH/OPTIONS PER ARCHITECT.	277V OR 120V MULTI. TAP (UNV.)	AIRCRAFT CABLE SUSPENDED-HEIGHT PER ARCHITECT	LED, 4000K, 45 MAX WATTS, 4900 MINIMUM DELIVERED LUMENS	NONE	FROSTED ACRYLIC	SATTLER INTERLUX DUETTO DIRECT#1629	1,2
S3	SINGLE MOUNT ARCHITECTURAL AREA LIGHT. TYPE III OPTICS. 16' SQUARE POLE. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. MUST BE B.U.G. RATING B4 U2 G2 OR BETTER. HOUSE SIDE SHEILD.	277V OR 120V MULTI. TAP (UNV.)	16'-0" SQUARE POLE	LED, 4000K, 106 MAX WATTS, 11,000 MINIMUM DELIVERED LUMENS.	NONE	CLEAR ACRYLIC	GARDCO #ECF-S-32L-1A-NW-G2-AR-3-UNV-HIS-32-H/ LYTEPOLES #101-40-11-16-AB-D1 SPITZER #PKL2-130L-U-40K-T3-XX-AM / DS330-400Q160 CURRENT #ASL1-160L-100-4K7-3-UNV-A-7PR-FINISH/SS S-H-16-40-A-XX-XX LITHONIA # RSX1-LED-P3-40K-R3-MVOLT-SPA-XXX POLE# SSS-16-4C-DM19AS-XXX-XXX	1,2,3,4
S4	SINGLE MOUNT ARCHITECTURAL AREA LIGHT. TYPE IV OPTICS. 16' SQUARE POLE. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. MUST BE B.U.G. RATING B4 U2 G2 OR BETTER.	277V OR 120V MULTI. TAP (UNV.)	16'-0" SQUARE POLE	LED, 4000K, 106 MAX WATTS, 11,000 MINIMUM DELIVERED LUMENS.	NONE	CLEAR ACRYLIC	GARDCO #ECF-S-32L-1A-NW-G2-AR-4-UNV / LYTEPOLES #101-40-11-16-AB-D1 SPITZER #PKL2-130L-U-40K-T4-XX-AM / DS330-400Q160 CURRENT #ASL1-160L-100-4K7-4W-UNV-A-7PR-FINISH/S SS-H-16-40-A-XX-XX LITHONIA # RSX1-LED-P3-40K-R4-MVOLT-SPA-XXX POLE# SSS-16-4C-DM19AS-XXX-XXX	1,2,3,4
S24	DOUBLE MOUNT ARCHITECTURAL AREA LIGHT. TYPE IV OPTICS. 16' SQUARE POLE. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. MUST BE B.U.G. RATING B4 U2 G2 OR BETTER.	277V OR 120V MULTI. TAP (UNV.)	16'-0" SQUARE POLE	LED, 4000K, 106 MAX WATTS, 11,000 MINIMUM DELIVERED LUMENS.	NONE	CLEAR ACRYLIC	GARDCO #ECF-S-32L-1A-NW-G2-AR-4-UNV / LYTEPOLES #101-40-11-16-AB-D1 SPITZER #PKL2-130L-U-40K-T4-XX-AM / DS330-400Q160 CURRENT #ASL1-160L-100-4K7-4W-UNV-A-7PR-FINISH/S SS-H-16-40-A-XX-XX LITHONIA # RSX1-LED-P3-40K-R4-MVOLT-SPA-XXX POLE# SSS-16-4C-DM28AS-XXX-XXX	1,2,3,4

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JOHN F. HECK IV — STATE OF NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — NO. 12498

Digitally signed by John F. Heck
Date: 2024-03-25 15:21:32-06'00'

PROFESSIONAL ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

ELECTRICAL SCHEDULES

E-701

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:46 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_JMProsper.rvt
Farmington Preschool Academy

Branch Panel: M1A

Location: ELEC 233
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 42

MINIMUM A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	NC FIRE RISER 231 EUH-1	25 A	1	5000 VA	5000 VA					1	25 A	NC PLUMBING 232	2
3	NC PLAY, STORAGE 115 EUH-3	25 A	1			5000 VA							4
5													6
7													8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		10000 VA		5000 VA		0 VA					
		Total Amps:		39 A		21 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	15000 VA	100.00%	15000 VA		
				Total Conn. Load:	15000 VA
				Total Est. Demand:	15000 VA
				Total Conn. Current:	18 A
				Total Est. Demand Current:	18 A

ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT SCHEDULE NOTES:

A. STARTER, CONTROL SYSTEM AND DISCONNECTING MEANS FOR UNIT WILL BE PROVIDED BY DIVISION 23. CONTRACTOR WILL HAVE ONE POINT OF ELECTRICAL CONNECTION. FOR VFD OR CONTROL EQUIPMENT INFORMATION, REFER TO SHEET SERIES M-700.
B. RACEWAY SYSTEM AND CONDUCTORS FOR CONTROLS WILL BE PROVIDED BY DIVISION 26 UNLESS SPECIFICALLY CALLED OUT TO BE PROVIDED BY OTHER SECTIONS OF THESE DOCUMENTS. REFER TO SHEET SERIES "M" FOR CONTROL DIAGRAMS AND ALSO REFER TO SPECIFICATION SECTION 230549.
C. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS OR A MINIMUM OF 125% OF UNIT FLA.
D. STARTER, CONTROL SYSTEM FOR UNIT WILL BE PROVIDED BY DIVISION 23. CONTRACTOR WILL PROVIDE DISCONNECTING MEANS AND HAVE ONE POINT OF ELECTRICAL CONNECTION. FOR CONTROL EQUIPMENT INFORMATION, REFER TO SHEET SERIES M-700.
E. CONTRACTOR WILL HAVE DIV 28 PROVIDE DUCT DETECTORS FOR UNIT'S SUPPLY AND RETURN SECTIONS AS REQUIRED, INSTALLED BY DIVISION 23, WIRED AND CONNECTED BY DIVISION 26/28, CONTROL WIRING BY DIVISION 23.

ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	BRANCH CIRCUIT CONDUCTOR DESCRIPTION	CONDUIT SIZE	MOTOR STARTER CHRACTERISTICS: STARTER TYPE	STARTER SIZE	OFF/AUTO OR HOA	PILOT LIGHT: RED	PILOT LIGHT: GREEN	EXTRA CONTACTS: NO	EXTRA CONTACTS: NC	DISCONNECT SWITCH CHARACTERISTICS: VOLTS	FRAME AMPS	FUSE SIZE	SOLID NEUT. / GND LUG	NEMA RATING	KEY NOTE
AC-1/CU-1	SPLIT SYSTEM	208 V	1	(3)#10+(1)#10 GND	3/4"								250	30	C	YES	3R	B
AC-2/CU-2	SPLIT SYSTEM	208 V	1	(3)#10+(1)#10 GND	3/4"								250	30	C	YES	3R	B
AC-3/CU-3	SPLIT SYSTEM	208 V	1	(3)#10+(1)#10 GND	3/4"								250	30	C	YES	3R	B
AC-4/CU-4	SPLIT SYSTEM	208 V	1	(3)#10+(1)#10 GND	3/4"								250	30	C	YES	3R	B
AC-5/CU-5	SPLIT SYSTEM	208 V	1	(3)#10+(1)#10 GND	3/4"								250	30	C	YES	3R	B
C-1	AIR COOLED CONDENSER	480 V	3	(3)#4+(1)#8 GND	1-1/4"													A,B
C-2	AIR COOLED CONDENSER	480 V	3	(3)#4+(1)#8 GND	1-1/4"													A,B
C-3	AIR COOLED CONDENSER	480 V	3	(3)#3+(1)#8 GND	1-1/2"													A,B
C-4	AIR COOLED CONDENSER	480 V	3	(3)#4+(1)#8 GND	1-1/4"													A,B
EUH-1	ELECTRIC UNIT HEATER	277 V	1	(2)#10+(1)#10 GND	3/4"								600	30	C	YES	1	B,D
EUH-2	ELECTRIC UNIT HEATER	277 V	1	(2)#10+(1)#10 GND	3/4"								600	30	C	YES	1	B,D
EUH-3	ELECTRIC UNIT HEATER	277 V	1	(2)#8+(1)#10 GND	3/4"								600	60	C	YES	1	B,D
EUH-4	ELECTRIC UNIT HEATER	277 V	1	(2)#8+(1)#10 GND	3/4"								600	60	C	YES	1	B,D
EUH-5	ELECTRIC UNIT HEATER	277 V	1	(2)#8+(1)#10 GND	3/4"								600	60	C	YES	1	B,D
EUH-6	ELECTRIC UNIT HEATER	277 V	1	(2)#8+(1)#10 GND	3/4"								600	60	C	YES	1	B,D
EUH-7	ELECTRIC UNIT HEATER	277 V	1	(2)#10+(1)#10 GND	3/4"								600	30	C	YES	1	B,D
IP-1	PUMP	480 V	3	(3)#12+(1)#12 GND	3/4"								600	30	C	YES	1	B,D
IP-2	PUMP	480 V	3	(3)#12+(1)#12 GND	3/4"								600	30	C	YES	1	B,D
IP-B1	PUMP	480 V	3	(3)#12+(1)#12 GND	3/4"								600	30	C	YES	1	B,D
IP-B2	PUMP	480 V	3	(3)#12+(1)#12 GND	3/4"								600	30	C	YES	1	B,D
KEF-1	KITCHEN EXHAUST FAN	480 V	3	(3)#12+(1)#12 GND	3/4"								600	30	C	YES	3R	B,D
MAU-1	MAKE UP AIR UNIT	480 V	3	(3)#12+(1)#12 GND	3/4"								600	30	C	YES	3R	B,D
VFD-1-1	MZU-1 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-1-2	MZU-1 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-1-3	MZU-1 EXHAUST	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-2-1	MZU-2 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-2-2	MZU-2 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-2-3	MZU-2 EXHAUST	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-3-1	MZU-3 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-3-2	MZU-3 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-3-3	MZU-3 EXHAUST	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-3-4	MZU-3 EXHAUST	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-4-1	MZU-4 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-4-2	MZU-4 SUPPLY	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-4-3	MZU-4 EXHAUST	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-4-4	MZU-4 EXHAUST	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B,E
VFD-P1	PUMP	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B
VFD-P2	PUMP	480 V	3	(3)#12+(1)#12 GND	3/4"													A,B

Branch Panel: L1A

Location: ELEC 233
Supply From: DPL1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	NC HALLWAY 201	20 A	1	500 VA	1080 VA					1	20 A	REC HALLWAY 201	2
3	Room 223, 217	20 A	1			1220 VA	500 VA			1	20 A	NC WORKROOM 223	4
5	REC B. CLERK 219	20 A	1					540 VA	900 VA	1	20 A	CON CR4 218	6
7	CON CR5 220	20 A	1	900 VA	900 VA					1	20 A	CON CR6 221	8
9	CON CR8 104	20 A	1			900 VA	900 VA			1	20 A	CON CR9 106	10
11	REC Room 101	20 A	1					1080 VA					12
13													14
15							900 VA			1	20 A	REC CR12 107	16
17													18
19					180 VA					1	20 A	REC HALLWAY 100	20
21	MTR MULTIPURPOSE 101	20 A	1			180 VA	180 VA			1	20 A	MTR MULTIPURPOSE 101	22
23	NC HALLWAY 201	20 A	1					360 VA	180 VA	1	20 A	MTR HALLWAY 201	24
25					900 VA					1	20 A	REC	26
27	REC	20 A	1			540 VA	1080 VA			1	20 A	REC HALLWAY 100	28
29	REC Room 103, 102	20 A	1					360 VA	180 VA	1	20 A	REC HALLWAY 100	30
31					180 VA					1	20 A	MTR HALLWAY 201	32
33	REC	20 A	1			180 VA	180 VA			1	20 A	REC ELEC 233	34
35	REC PLUMBING 232	20 A	1					180 VA	180 VA	1	20 A	REC FIRE RISER 231	36
37	Room 112B, 312B	20 A	1	1440 VA	1800 VA					2	20 A	CON IT 312B	38
39	REC IT 312B	20 A	1			360 VA	1800 VA			--	--	--	40
41	NC PLUMBING 232 DWH-1	20 A	1					180 VA	180 VA	2	20 A	REC IT 112B	42
43	MTR - ROLLER SHADES	20 A	1	360 VA	180 VA					--	--	--	44
45	REC CR5 220	20 A	1			720 VA	720 VA			1	20 A	REC CR4 218	46
47	REC CR6 221	20 A	1					720 VA	720 VA	1	20 A	REC CR8 104	48
49	REC CR9 106	20 A	1	720 VA									50
51							0 VA			1	20 A	Continuous	52
53	REC CR12 107	20 A	1					720 VA					54
55													56
57	NC PLUMBING 232 DWH-2	20 A	1			180 VA	180 VA			1	20 A	NC PLUMBING 232 DWH-3	58
59	MTR PLUMBING 232 TMV-1/RCP-1	20 A	1					123 VA	360 VA	1	20 A	MTR PLUMBING 232	60
61	NC SP-1	20 A	1	1020 VA									62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
		Total Load:		10160 VA		10720 VA		6963 VA					
		Total Amps:		89 A		93 A		58 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
CON	3600 VA	125.00%	4500 VA		
MTR	2583 VA	100.00%	2583 VA	**Total Conn. Load:**	27843 VA
NC	2760 VA	100.00%	2760 VA	**Total Est. Demand:**	24293 VA
REC	18900 VA	76.46%	14450 VA	**Total Conn. Current:**	77 A
				Total Est. Demand Current:	67 A

Branch Panel: L1B

Location: ELEC 208
Supply From: DPL1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	NC MDF 216	20 A	1	360 VA	2000 VA					1	20 A	NC - MTR, GATE	2
3	NC Room 308	20 A	1			720 VA	540 VA			1	20 A	NC	4
5	REC PRINCIPAL 202	20 A	1					1080 VA	540 VA	1	20 A	REC Room 308	6
7	REC Room 206, 207	20 A	1	540 VA	720 VA					1	20 A	REC Room 201	8
9	Room 213, 213C	20 A	1			2760 VA	720 VA			1	20 A	REC Room 213B, 213A	10
11	REC Room 200, 201	20 A	1					900 VA	180 VA	1	20 A	REC VESTIBULE 200	12
13	REC Room 203, 204	20 A	1	1800 VA	1080 VA					1	20 A	CONFERENCE 205	14
15	REC Room 215, 224	20 A	1			1080 VA	900 VA			1	20 A	REC CR7 209	16
17	REC CR1 210	20 A	1					900 VA	900 VA	1	20 A	REC OP/TP 211	18
19	REC CR2 212	20 A	1	900 VA	900 VA					1	20 A	REC CR3 214	20
21	NC Room 308	20 A	1			0 VA	0 VA			1	20 A	Continuous EVAC PANEL	22
23	NC MDF 216	20 A	1					360 VA	360 VA	1	20 A	NC MDF 216	24
25	NC MDF 216	20 A	1	360 VA	900 VA					2	30 A	REC MDF 216	26
27	NC FIRE RISER 231	20 A	1			180 VA	900 VA			--	--	--	28
29	NC NURSE 213	20 A	1					1500 VA	180 VA	1	20 A	MTR VESTIBULE 200	30
31					180 VA					1	20 A	NC - DOM WATER HOT BOX	32
33	CON IRR CONTROL	20 A	1			180 VA	180 VA			1	20 A	REC IRR. HOT BOX	34
35	REC CR1 210	20 A	1					720 VA	720 VA	1	20 A	REC CR7 209	36
37	REC OP/TP 211	20 A	1	720 VA	720 VA					1	20 A	REC CR2 212	38
39	REC CR3 214	20 A	1			720 VA	180 VA			1	20 A	CON	40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
		Total Load:		11180 VA		9060 VA		8340 VA					
		Total Amps:		94 A		76 A		70 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	8060 VA	100.00%	8060 VA		
CON	360 VA	125.00%	450 VA	**Total Conn. Load:**	28580 VA
MTR	180 VA	100.00%	180 VA	**Total Est. Demand:**	23680 VA
REC	19980 VA	75.03%	14990 VA	**Total Conn. Current:**	79 A
				Total Est. Demand Current:	66 A

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ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

PANEL SCHEDULES

E-702

Bridgers & Paxton Project No: 8819 3/21/2024 2:06:50 PM D:\Revit 2023\Projects\8819_MEP_Farmington Preschool Academy_MProsper.rvt

Farmington Preschool Academy

Branch Panel: L1C

Location: ELEC 110B
Supply From: DPL1A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	NC WORKROOM 112	20 A	1	500 VA	900 VA					1	20 A	CON CR10 114	2
3	CON CR11 116	20 A	1			900 VA	1260 VA			1	20 A	WORKROOM 112	4
5	CON SPECIAL ED 110	20 A	1					900 VA	180 VA	1	20 A	REC WORKROOM 112	6
7	REC SPECIAL ED 110	20 A	1	720 VA	1080 VA					1	20 A	REC	8
9	REC CR10 114	20 A	1			720 VA	720 VA			1	20 A	REC CR11 116	10
11	REC CR13 109	20 A	1					900 VA	720 VA	1	20 A	REC CR13 109	12
13	REC CR14 111	20 A	1	900 VA	720 VA					1	20 A	REC CR14 111	14
15	REC CR15 113	20 A	1			900 VA	720 VA			1	20 A	REC CR15 113	16
17	REC WORKROOM 112	20 A	1					180 VA	180 VA	2	20 A	CON WORKROOM 112	18
19	REC HALLWAY 100	20 A	1	180 VA	180 VA					--	--	--	20
21	REC HALLWAY 100	20 A	1			180 VA							22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		5180 VA		5400 VA		3060 VA					
		Total Amps:		46 A		48 A		26 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	680 VA	100.00%	680 VA		
CON	360 VA	125.00%	450 VA	**Total Conn. Load:**	13640 VA
REC	12600 VA	89.68%	11300 VA	**Total Est. Demand:**	12430 VA
				Total Conn. Current:	38 A
				Total Est. Demand Current:	35 A

Branch Panel: H1A

Location: ELEC 233
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 42

MINIMUM A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG - EXT N.WEST	20 A	1	225 VA	75 VA					1	20 A	LTG - EXT. WEST	2
3	LTG - EXT. SOUTH	20 A	1			125 VA	175 VA			1	20 A	LTG - EXT. SOUTH 2	4
5	Room 200, 201	20 A	1					1416 VA	692 VA	1	20 A	Room 203, 204, 202, 206, 207, 201, 308, 205	6
7	LTG Room 213A, 213, 213C, 213B	20 A	1	200 VA	549 VA					1	20 A		8
9	LTG CR2 212	20 A	1			850 VA	850 VA			1	20 A	LTG CR4 218	10
11	LTG Room 217, 219, 223, 224, 216, 215, 222	20 A	1					325 VA	850 VA	1	20 A	LTG OP/TP 211	12
13	Room 229, 225, 232, 233, 231, 226, 230, 228, 227	20 A	1	624 VA	850 VA					1	20 A	LTG CR5 220	14
15	HALLWAY 100	20 A	1			884 VA	25 VA			1	20 A	LTG	16
17	Room 115	20 A	1					433 VA	162 VA	1	20 A	Room 103, 102, 100	18
19	LTG	20 A	1	850 VA	850 VA					1	20 A	LTG	20
21	LTG	20 A	1			850 VA	850 VA			1	20 A	LTG	22
23	CON MARQUEE SIGN	20 A	1					180 VA	850 VA	1	20 A	LTG	24
25	Lighting MULTIPURPOSE 101	20 A	1	418 VA									26
27		20 A	1			216 VA							28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
		Total Load:		4641 VA		4825 VA		4908 VA					
		Total Amps:		17 A		18 A		18 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
CON	180 VA	125.00%	225 VA		
LTG	12260 VA	125.00%	15325 VA	**Total Conn. Load:**	14374 VA
Lighting	560 VA	125.00%	700 VA	**Total Est. Demand:**	17624 VA
Other	1374 VA	100.00%	1374 VA	**Total Conn. Current:**	17 A
				Total Est. Demand Current:	21 A

Branch Panel: MPH

Location: PENTHOUSE 2 406
Supply From: DPH2
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	NC EUH-3	35 A	1	7500 VA	444 VA					3	20 A	MTR - MAU-1	2
3	NC EUH-4	35 A	1			7500 VA	444 VA			--	--	--	4
5	MTR MZU - 1 RETURN	20 A	3					2106 VA	444 VA	--	--	--	6
7	--	--	--	2106 VA	2106 VA					3	20 A	MTR MZU - 1 SUPPLY 1	8
9	--	--	--			2106 VA	2106 VA			--	--	--	10
11	MTR MZU-1 SUPPLY 2	20 A	3					2106 VA	2106 VA	--	--	--	12
13	--	--	--	2106 VA	2106 VA					3	20 A	MTR PENTHOUSE 2 MZU-2 EXHAUST	14
15	--	--	--			2106 VA	2106 VA			--	--	--	16
17	MTR PENTHOUSE 2 MZU-2 SUPPLY 1	20 A	3					2106 VA	2106 VA	--	--	--	18
19	--	--	--	2106 VA	2106 VA					3	20 A	MTR PENTHOUSE 2 MZU-2 SUPPLY 2	20
21	--	--	--			2106 VA	2106 VA			--	--	--	22
23	MTR CU-1	70 A	3					11528 VA	2106 VA	--	--	--	24
25	--	--	--	11528 VA	13967 VA					3	80 A	MTR CU-2	26
27	--	--	--			11528 VA	13967 VA			--	--	--	28
29									13967 VA	--	--	--	30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		46077 VA		46077 VA		38577 VA					
		Total Amps:		171 A		171 A		139 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	15000 VA	100.00%	15000 VA		
MTR	115731 VA	100.00%	115731 VA	**Total Conn. Load:**	130731 VA
				Total Est. Demand:	130731 VA
				Total Conn. Current:	157 A
				Total Est. Demand Current:	157 A

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FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
PANEL SCHEDULES

E-703

Branch Panel: L2C

Location: ELEC 310B
Supply From: L2A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MTR PENTHOUSE 3 MZU-3 PUMP	20 A	1	180 VA	750 VA					1	20 A	NC WORKROOM 312	2
3	MTR PENTHOUSE 3 MZU-4 PUMP	20 A	1			180 VA	1080 VA			1	20 A	REC WORKROOM 312	4
5	REC CR18 314	20 A	1					720 VA	750 VA	1	20 A	NC WORKROOM 312	6
7	NC WORKROOM 312	20 A	1	1500 VA	1128 VA					2	20 A	MTR CU-4	8
9	REC HALLWAY 300	20 A	1			180 VA	1128 VA			--	--	--	10
11	REC CR18 314	20 A	1					900 VA	900 VA	1	20 A	REC CR19 316	12
13	REC WORKROOM 312	20 A	2	2500 VA	180 VA					1	20 A	NC PENTHOUSE 3 FMS	14
15	--	--	--			2500 VA	1128 VA			2	20 A	MTR CU-5	16
17	CON SPECIAL ED 310	20 A	1					900 VA	1128 VA	--	--	--	18
19	REC CR23 313	20 A	1	720 VA	720 VA					1	20 A	REC CR19 316	20
21	REC PENTHOUSE 3 403	20 A	1			720 VA	720 VA			1	20 A	REC CR21 309	22
23	REC HALLWAY 300	20 A	1					180 VA	720 VA	1	20 A	REC Room 315, 300	24
25	REC CR21 309	20 A	1	900 VA	180 VA					1	20 A	REC	26
27	REC CR22 311	20 A	1			900 VA	1176 VA			1	20 A	MTR EF-7	28
29	REC CR22 311	20 A	1					720 VA	900 VA	1	20 A	REC CR23 313	30
31	REC	20 A	1	180 VA	1176 VA					1	20 A	MTR EF-8	32
33	MTR PENTHOUSE 3 403 IP-3	20 A	2			510 VA	510 VA			2	20 A	MTR PENTHOUSE 3 403 IP-4	34
35	--	--	--					510 VA	510 VA	--	--	--	36
37	REC SPECIAL ED 310	20 A	1	720 VA									38
39													40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
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63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
		Total Load:		10834 VA		10731 VA		8838 VA					
		Total Amps:		93 A		92 A		74 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	5532 VA	100.00%	5532 VA		
MTR	6910 VA	100.00%	6910 VA	**Total Conn. Load:**	30402 VA
REC	17960 VA	77.84%	13980 VA	**Total Est. Demand:**	26422 VA
				Total Conn. Current:	84 A
				Total Est. Demand Current:	73 A

Branch Panel: L2A

Location: ELEC 302
Supply From: T2A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	REC CR17 306	400 A	1	900 VA	900 VA					1	20 A	REC CR16 304	2
3	REC CR20 307	20 A	1			900 VA	540 VA			1	20 A	REC MULTIPURPOSE 101	4
5	REC HALLWAY 300	20 A	1					540 VA	720 VA	1	20 A	REC CR16 304	6
7	REC CR17 306	20 A	1	720 VA	720 VA					1	20 A	REC CR20 307	8
9	REC Room 301, 302	20 A	1			360 VA	375 VA			2	20 A	MTR PENTHOUSE 2 406 IP-2	10
11	NC MECH 301 - L-9 DAMPER	20 A	1					180 VA	375 VA	--	--	--	12
13													14
15													16
17	NC MECH 301 BOILER B-1	20 A	1					180 VA	180 VA	1	20 A	NC MECH 301 BOILER B-2	18
19	NC MECH 301 FMS	20 A	1	180 VA	375 VA					2	20 A	MTR PENTHOUSE 1 405 IP-1	20
21	MTR	20 A	1			1176 VA	375 VA			--	--	--	22
23	MTR CU-1	20 A	2					1382 VA	180 VA	1	20 A	CON FMS	24
25	--	--	--	1382 VA	180 VA					1	20 A	MTR	26
27	MTR - EF-4	20 A	1			1176 VA	1176 VA			1	20 A	MTR - EF-3	28
29	REC Room 405	20 A	1					720 VA	900 VA	1	20 A	REC PENTHOUSE 2 406	30
31	MTR	20 A	1	1176 VA	1176 VA					1	20 A	MTR EF-6	32
33	MTR - CU-2	20 A	2			1377 VA	1176 VA			1	20 A	MTR - EF-5	34
35	--	--	--					1377 VA	1548 VA	2	30 A	MTR CU-3	36
37	REC	20 A	1	180 VA	1548 VA					--	--	--	38
39													40
41													42
43	NC PENTHOUSE 1 FMS	20 A	1	180 VA									44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79	PANEL L2C	225 A	3	10834 VA									80
81	--	--	--			10731 VA							82
83	--	--	--					8838 VA					84
		Total Load:		20450 VA		19362 VA		17119 VA					
		Total Amps:		173 A		164 A		143 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	13488 VA	100.00%	13488 VA		
CON	180 VA	125.00%	225 VA	**Total Conn. Load:**	56930 VA
MTR	17202 VA	100.00%	17202 VA	**Total Est. Demand:**	48945 VA
REC	26060 VA	69.19%	18030 VA	**Total Conn. Current:**	158 A
				Total Est. Demand Current:	136 A

Branch Panel: H2A

Location: ELEC 302
Supply From: DPH2
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 42

MINIMUM A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Room 300, 302, 315, 201	20 A	1	942 VA	158 VA					1	20 A	LTG MECH 301	2
3	LTG	20 A	1			850 VA	850 VA			1	20 A	LTG	4
5	LTG	20 A	1					850 VA	850 VA	1	20 A	LTG	6
7	LTG	20 A	1	850 VA	208 VA					1	20 A	LTG PENTHOUSE 1 405	8
9	LTG PENTHOUSE 2 406	20 A	1			208 VA	225 VA			1	20 A	LTG	10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		2158 VA		2133 VA		1700 VA					
		Total Amps:		8 A		8 A		6 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	100 VA	100.00%	100 VA		
LTG	5891 VA	125.00%	7364 VA	**Total Conn. Load:**	5991 VA
				Total Est. Demand:	7464 VA
				Total Conn. Current:	7 A
				Total Est. Demand Current:	9 A

Branch Panel: M2A

Location: ELEC 302
Supply From: DPH2
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Spaces: 84

MINIMUM A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MTR PENTHOUSE 3 MZU-4 SUPPLY	20 A	3	3048 VA	3048 VA					3	20 A	MTR PENTHOUSE 3 MZU-4 SUPPLY	2
3	--	--	--			3048 VA	3048 VA			--	--	--	4
5	--	--	--					3048 VA	3048 VA	--	--	--	6
7	MTR PENTHOUSE 3 403	20 A	3	3048 VA	3048 VA					3	20 A	MTR PENTHOUSE 3 403	8
9	--	--	--			3048 VA	3048 VA			--	--	--	10
11	--	--	--					3048 VA	3048 VA	--	--	--	12
13	MTR PENTHOUSE 3 MZU-3 EXHAUST	20 A	3	1330 VA	1330 VA					3	20 A	MTR PENTHOUSE 3 MZU-3 EXHAUST	14
15	--	--	--			1330 VA	1330 VA			--	--	--	16
17	--	--	--					1330 VA	1330 VA	--	--	--	18
19	MTR PENTHOUSE 3 MZU-4 EXHAUST	20 A	3	1330 VA	1330 VA					3	20 A	MTR PENTHOUSE 3 MZU-4 EXHAUST	20
21	--	--	--			1330 VA	1330 VA			--	--	--	22
23	--	--	--					1330 VA	1330 VA	--	--	--	24
25	MTR C-3	100 A	3	19288 VA	13967 VA					3	80 A	MTR C-4	26
27	--	--	--			19288 VA	13967 VA			--	--	--	28
29	--	--	--					19288 VA	13967 VA	--	--	--	30
31	MTR - EF-9	20 A	3	582 VA	443 VA					3	20 A	MTR KEF-1	32
33	--	--	--			582 VA	443 VA			--	--	--	34
35	--	--	--					582 VA	443 VA	--	--	--	36
37	NC MECH 301 IP-B1	20 A	3	942 VA	942 VA					3	20 A	NC MECH 301 IP-B2	38
39	--	--	--			942 VA	942 VA			--	--	--	40
41	--	--	--					942 VA	942 VA	--	--	--	42
43	NC MECH 301 P-1	20 A	3	3048 VA	3048 VA					3	20 A	NC MECH 301 P-2	44
45	--	--	--			3048 VA	3048 VA			--	--	--	46
47	--	--	--					3048 VA	3048 VA	--	--	--	48
49	NC MECH 301 EUH-6	35 A	1	7500 VA	7500 VA					1	35 A	NC PENTHOUSE 3 403 EUH-5	50
51													52
53													54
55													56
57													58
59													60
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69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
		Total Load:		74774 VA		59774 VA		59774 VA					
		Total Amps:		270 A		216 A		216 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MTR	176246 VA	100.00%	176246 VA		
NC	18076 VA	100.00%	18076 VA	**Total Conn. Load:**	194322 VA
				Total Est. Demand:	194322 VA
				Total Conn. Current:	234 A
				Total Est. Demand Current:	234 A

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JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
PROFESSIONAL ENGINEER
Digitally signed by John F. Heck
Date: 2024.03.21 15:22:32-06'00'
ENGINEER

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

CONSTRUCTION DOCUMENTS
MARCH 2024

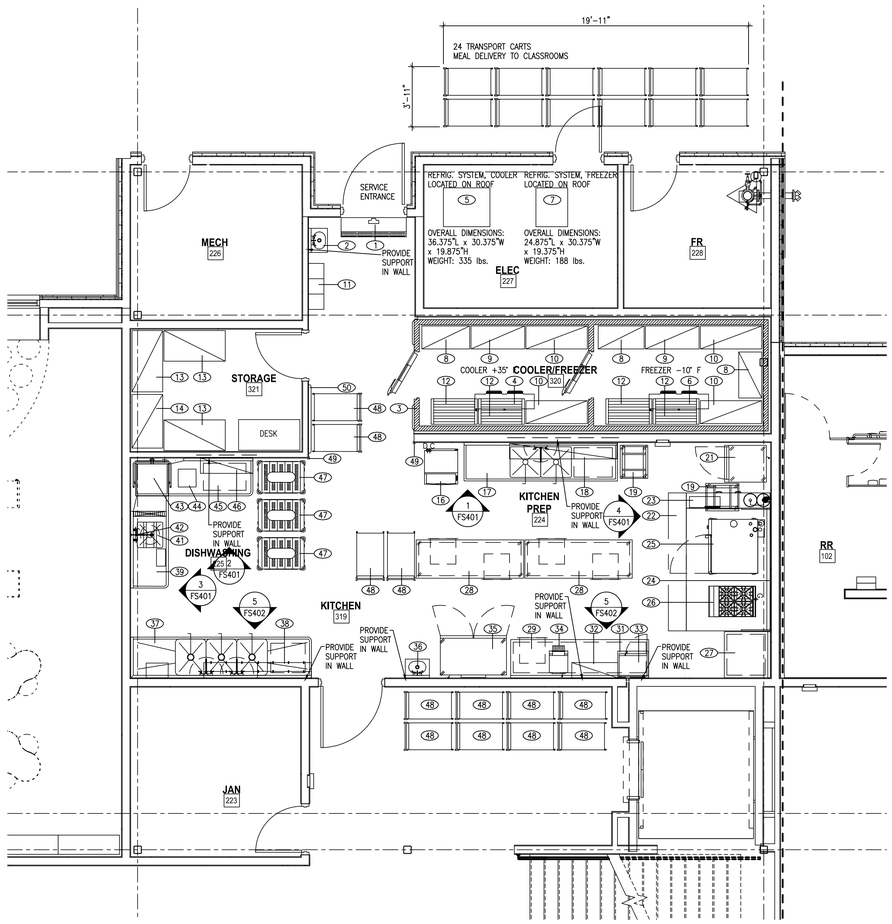
MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	MARCH 2024
PROJECT NO:	K23-001
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
PANEL SCHEDULES

E-704

Farmington Preschool Academy

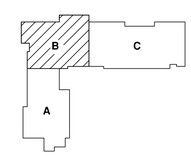


GENERAL NOTES:

1. THESE PLANS ARE PROVIDED FOR THE PURPOSE OF INDICATING LOCATIONS AND EQUIPMENT REQUIREMENTS ONLY AND DO NOT RELIEVE THE CONTRACTOR AND ALL OTHER TRADES INVOLVED OF THE RESPONSIBILITY TO COMPLY WITH ALL CODES.
2. GENERAL CONTRACTOR TO PROVIDE ALL SLEEVES OR OPENINGS NECESSARY FOR CONDUITS, REFRIGERATION LINES, AND EXHAUST OUTLETS.
3. GENERAL CONTRACTOR TO PROVIDE ALL BACKING IN WALLS FOR WALL HUNG EQUIPMENT, SHELVING, ETC., AS INDICATED ON PLANS.
4. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE AND INSTALL EXHAUST HOODS. GENERAL CONTRACTOR TO PROVIDE AND INSTALL EXHAUST BLOWERS AND ALL FINAL DUCT CONNECTIONS ALL FULLY WELDED TO MEET N.F.P.A. 96 AND LOCAL CODES.
5. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE WET CHEMICAL FIRE SUPPRESSION SYSTEM FOR COOKING EQUIPMENT IN ACCORDANCE WITH ALL CODES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TRASH RESULTING FROM THE INSTALLATION OF EQUIPMENT AND FIXTURES.
7. ALL ITEMS SCHEDULED FOR MOUNTING EITHER IN THE FLOOR OR WALLS BY THE GENERAL CONTRACTOR SHALL BE DELIVERED TO THE JOB SITE EARLY IN THE CONSTRUCTION SCHEDULE.
8. ITEM NUMBERS SHOWN ON PLANS CORRESPOND TO THE SAME ITEMS ON EQUIPMENT SCHEDULE, ROUGH-IN PLANS, AND SPECIFICATIONS.
9. REFER TO THE EQUIPMENT SCHEDULE ON SHEET K601 FOR EQUIPMENT NOMENCLATURE.
10. PERMIT REQUIRED FOR UL300 FIRE SUPPRESSION SYSTEM. SHOP DRAWINGS TO BE SUBMITTED AS A DEFERRED SUBMITTAL.

KITCHEN EQUIPMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

N.T.S.

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
SIGNED AND SEALED
ARCHITECT

DESIGNED TO EARN THE ENERGY STAR

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

PRICING SET
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	PRICING SET
DATE:	JANUARY 25, 2024
PROJECT NO:	K23-001
DRAWN BY:	AG
CHECKED BY:	AG

SHEET TITLE

KITCHEN EQUIPMENT FLOOR PLAN

K-101

FARMINGTON PRESCHOOL ACADEMY

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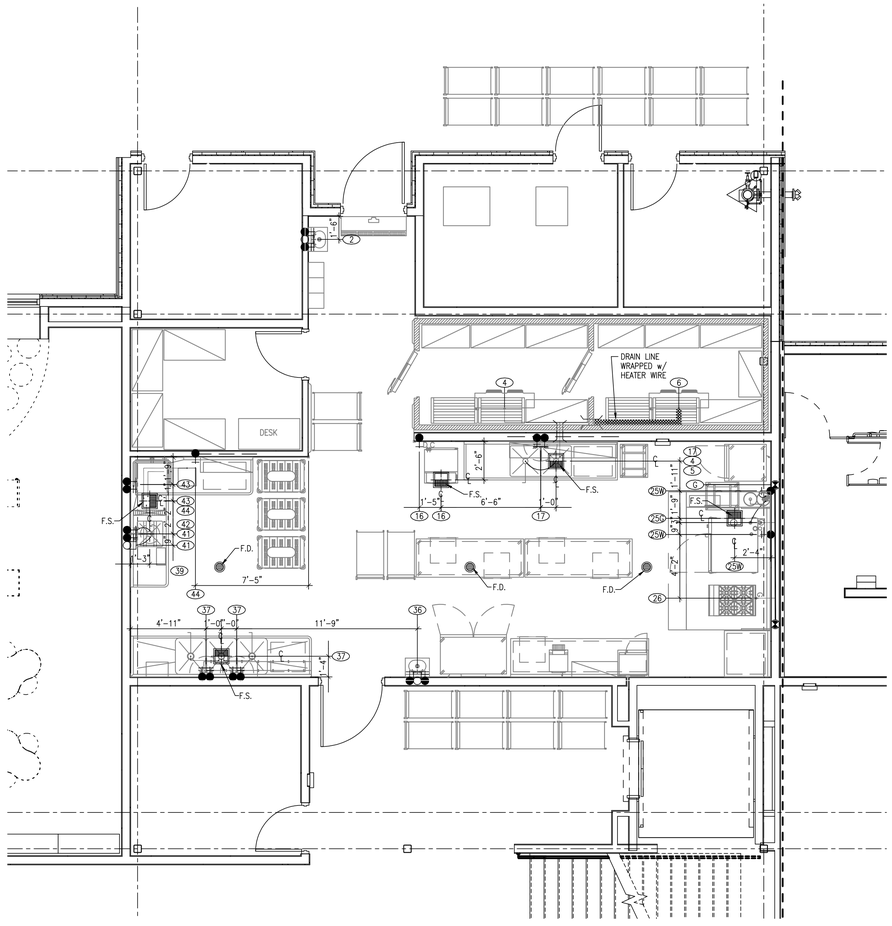


PLUMBING NOTES:

1. THIS PLUMBING ROUGH-IN PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS. FINAL CONNECTION LOCATION & REQUIREMENTS. REFER TO THE PLUMBING SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALLS, AND/OR C/L OF COLUMN TO THE CENTER LINE OF OUTLET; AND FROM C/L OF OUTLET TO C/L OF OUTLET.
3. WHEREVER POSSIBLE ALL PIPING SHALL BE RUN WITHIN WALLS AND STUBBED OUT FROM WALL AT HEIGHT INDICATED ABOVE FINISHED FLOOR.
4. ALL EXPOSED PLUMBING SHALL BE PROPERLY CLEANED AND PAINTED WITH NON-LEAD BEARING ALUMINUM COLOR PAINT. ALL PIPING AND FITTINGS APPEARING ABOVE THE COUNTER TOP SHALL BE CHROME PLATED.
5. ROUGH-INS SHOWN IN PARTITIONS MUST FALL WITH-IN PARTITIONS REGARDLESS OF DIMENSIONS.

PLUMBING CLARIFICATIONS:

1. ROUGH-IN PLUMBING PERFORMED BY THE PLUMBING CONTRACTOR SHALL INCLUDE ALL MATERIALS, PIPES, VALVES, FITTINGS, UNDERGROUND TRAPS, FLOOR SINKS, FLOOR DRAINS, VENTS, FLOOR DRAIN AND FLOOR SINK COVERS AND STOPS AT THE ENDS OF WATER LINES.
2. FINAL CONNECTION PERFORMED BY THE PLUMBING CONTRACTOR SHALL INCLUDE ALL MATERIALS, PIPING, VALVES, FTTTINGS, TRAPS, EXTENDED WASTES AND WHATEVER IS NECESSARY TO PROPERLY CONNECT PRESSURE REDUCING VALVES, AND VACUUM BREAKERS AND THE EQUIPMENT ITEM TO THE ROUGH-IN OUTLET. THIS INCLUDES STOPS ON ALL WATER LINES, CLEANOUTS ON ALL DIRECT CONNECTED DRAIN LINES AND HARD COPPER DRAINS TO FLOOR SINKS FROM APPLIANCES.
3. CERTAIN MATERIALS WILL BE FURNISHED BY THE KITCHEN EQUIPMENT CONTR. SUCH AS SOLENOID VALVES, VACUUM BREAKERS FOR THE DISPOSERS; HOSE REELS INCLUDING CONTROL VALVES, VACUUM BREAKER AND CHECK VALVES; MOST SINKS COMPLETE WITH FAUCETS; AND WATER FILTER UNITS.

   THESE ITEMS SHALL BE TURNED OVER TO THE PLUMBING CONTRACTOR FOR INSTALLATION.
4. THE GAS SUPPLY LINES SHALL BE INSTALLED BY THE PLUMBING CONTR. COMPLETE WITH STOPS FOR EACH INDIVIDUAL PIECE OF EQUIPMENT WITH NO PIPE SIZE SMALLER THAN THE FTTTING ON THE EQUIPMENT.
5. WHEN A BATTERY OF TWO OR MORE GAS APPLIANCES ARE CONNECTED WITH A SINGLE MANIFOLD, THE K.E.C. SHALL SET, LEVEL AND CONNECT THE MANIFOLD BETWEEN APPLIANCES. THE PLUMBING CONTRACTOR SHALL MAKE THE FINAL CONNECTIONS.
6. ALL WATER LINES SHALL BE IN HARD COPPER TO FINAL CONNECTION POINT WITHOUT REDUCTION IN SIZE.
7. ALL DRAINS EXTENDED TO FLOOR SINKS OR FLOOR DRAINS SHALL BE OF HARD COPPER WITHOUT REDUCTION IN SIZE.
8. PROVIDE 1" HARD COPPER DRAIN FROM ALL COIL DRIP PANS ALONG THE COOLER WALL TO FLOOR SINK OR STANDPIPE DRAIN. PITCH THE DRAINS FOR GOOD DRAINAGE. FREEZER COIL DRAIN SHALL BE WRAPPED AND HEATED OVER THE ENTIRE EXPOSED SURFACE IN THE FREEZER UNIT, INSTALL P-TRAP IN THE FREEZER DRAIN OUTSIDE OF FIXTURE AT OR NEAR DRAIN.
9. DISPOSER WATER SUPPLY LINE MUST CONTAIN AN ATMOSPHERIC VACUUM BREAKER. INSTALL TO MANUFACTURER'S RECOMMENDATIONS.

PLUMBING REQUIREMENTS

(2) HAND WASH SINK – 1/2" H.W. & 1/2" C.W. @ +24" A.F.F., 1-1/2" DIRECT WASTE w/CLEANOUT @ +18" A.F.F.

(4) COIL, COOLER – 1" HARD COPPER CONDENSATE DRAIN FROM COIL DRIP PAN ALONG THE COOLER WALL, THROUGH WALL TO A FLOOR SINK.

(6) COIL, FREEZER – 1" HARD COPPER CONDENSATE DRAIN FROM COIL DRIP PAN ALONG THE COOLER/FREEZER WALL, THROUGH WALL TO A FLOOR SINK. DRAIN SHALL BE WRAPPED AND HEATED OVER THE ENTIRE EXPOSED SURFACE IN THE FREEZER UNIT. INSTALL A P-TRAP IN THE FREEZER DRAIN OUTSIDE OF FIXTURE AT OR NEAR THE FLOOR SINK.

(16) ICE MACHINE w/BIN – 1/2" C.W. @ +72" A.F.F., EXTEND 1" HARD COPPER DRAIN TO FLOOR SINK. PLUMB WATER FILTER UPSTREAM FROM UNIT.

(17) PREP SINK – 1/2" H.W. & 1/2" C.W. @ +12" A.F.F., EXTEND 2" HARD COPPER DRAIN TO FLOOR SINK.

(25b) DOUBLE STACKED COMBI OVEN – (2)3/4" C.W. @ +12" & +48" A.F.F. EXTEND (2) 2" HARD COPPER DRAINS TO FLOOR SINK.

(C) PROVIDE GAS LOOP DOWN FROM OVERHEAD TO HANDLE 239,000 B.T.U.s FOR THE FOLLOWING ITEMS:

(25a) DOUBLE STACKED COMBI OVEN – (2)3/4" N.P.T., NATURAL GAS @ +12" & +48" A.F.F. 49,500 BTUs PER OVEN (90,000 TOTAL BTUs)

(26) FOUR BURNER RANGE w/STAND – 1-1/4" N.P.T., REAR NATURAL GAS CONNECTION @ +24" A.F.F. 140,000 BTUs.

(36) HAND WASH SINK – 1/2" H.W. & 1/2" C.W. @ +24" A.F.F., 1-1/2" DIRECT WASTE w/CLEANOUT @ +18" A.F.F.

(37) THREE COMPARTMENT SINK – (2)3/4" H.W. & (2)3/4" C.W. @ +12" A.F.F. (TWO LOCATIONS), EXTEND 2" HARD COPPER DRAIN TO FLOOR SINK. PLUMB THROUGH GREASE INTERCEPTOR.

(39) SOILED DISHTABLE– EXTEND 1" HARD COPPER DRAIN FROM DRAINER PAN TO FLOOR SINK.

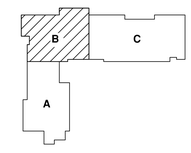
(41) DISPOSER, 2 H.P. – 1/2" C.W. @ +12" A.F.F., 2" DIRECT WASTE w/CLEANOUT @ +10" A.F.F.

(43) DISHMACHINE, LOW TEMP –3/4" H.W. (140°F. MIN.) @ +10" A.F.F., 1/2" TREATED C.W. @ +10" A.F.F., FROM ITEM 44 (WATER SOFTENER). EXTEND 1-1/2" HARD COPPER DRAIN TO FLOOR SINK.

(44) WATER SOFTENER – 3/4" C.W. @ +12" A.F.F., RUN TREATED C.W. TO ITEM 43, DISHMACHINE. EXTEND 3/4" HARD COPPER DRAIN TO FLOOR SINK.

PLUMBING SYMBOLS

- HOT WATER
- COLD WATER
- FUEL GAS
- STEAM
- DIRECT WASTE
- STAND PIPE DRAIN
- FLOOR DRAIN
- TYPICAL FLOOR SINK W/ 1/2 COVER
- SLEEVE THRU WALL



KEY PLAN

N.T.S.

KITCHEN EQUIPMENT PLUMBING ROUGH-IN

SCALE: 1/4" = 1'-0"

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03/21/2024
SANJAY L. ENGINEER
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ARCHITECT

DESIGNED TO EARN THE ENERGY STAR

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

PRICING SET
MARCH 2024

MARK	DATE	DESCRIPTION

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DRAWN BY:	AG
CHECKED BY:	AG

SHEET TITLE

KITCHEN EQUIPMENT PLUMBING ROUGH-IN

K-102

FARMINGTON PRESCHOOL ACADEMY
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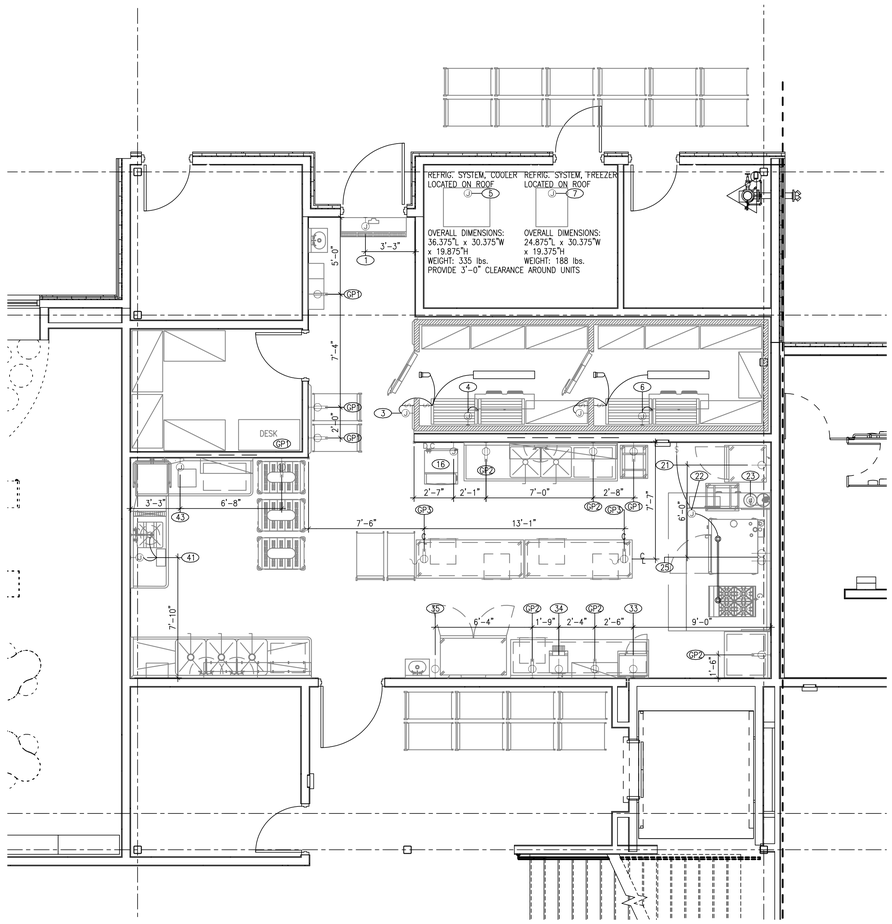


ELECTRICAL NOTES:

1. THIS PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS, FINAL CONNECTION POSITIONS AND LOAD REQUIREMENTS. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALL AND/OR COLUMN, TO THE CENTER LINE OF OUTLET; AND FROM CENTER LINE OF OUTLET TO CENTER LINE OF OUTLET.
3. OUTLET ELEVATION DIMENSIONS SHOWN ARE FROM FINISHED FLOOR TO CENTER LINE OF OUTLET.
4. ALL ROUGH-INS SHALL BE RUN WITHIN WALLS, ABOVE CEILING AND TERMINATING AT LOCATIONS SHOWN ON PLAN WITH FLUSH J-BOX OR RECEPTACLE AT ELEVATIONS INDICATED. WHERE NOTED TO STUB-UP FROM FLOOR THE ROUGH-IN SHALL BE A WATER PROOF STUB 6" MINIMUM ABOVE FINISHED FLOOR.
5. CONTRACTOR SHALL PROVIDE STAINLESS STEEL COVER PLATES FOR ALL OUTLETS IN KITCHEN AND SERVING AREA.
6. CONTRACTOR SHALL FULLY CONNECT ALL FOODSERVICE EQUIPMENT AND FIXTURES.
7. CONTRACTOR SHALL PROVIDE SERVICE, WIRING, CONDUIT, DISCONNECTS, ETC., AND INSTALL ALL SWITCHES AND ELECTRICAL COMPONENTS AS REQUIRED.
8. CONTRACTOR SHALL COMPLY WITH ALL CODES RELATED TO INSTALLATION, WIRING, AND HOOK-UP OF FOODSERVICE EQUIPMENT.
9. THE SYMBOLS ON THIS PLAN ARE TO INDICATE TYPE OF CONNECTION ONLY, PROVIDE CIRCUITS AND CONDUIT RUNS AS SHOWN ON THE ELECTRICAL PLANS.
10. ROUGH-INS SHOWN IN PARTITIONS MUST FALL WITHIN PARTITIONS REGARDLESS OF DIMENSIONS.
11. ALL CONDUIT OR FLEX SHALL BE MAINTAINED 6" ABOVE FINISHED FLOOR.
12. CONTRACTOR SHALL LEAVE 6' OF EXTRA WIRE THRU OUTLET TO MAKE A CONTINUOUS CONNECTION TO THE APPLIANCE.
13. CODE REQUIRES A POWER SHUT-DOWN ON COOKING EQUIPMENT WHEN FIRE PROTECTION SYSTEM TRIPS, ELECTRICAL ENGINEER SHALL SPECIFY THE SHUNT TRIPS OR SIMILAR DEVICES AND CONTRACTOR SHALL SUPPLY AND INSTALL, UNLESS THEY ARE SPECIFIED AND INSTALLED AS PART OF A FURNISHED ITEM.
14. HIGH TEMPERATURE DISHWASHER IS PROVIDED WITH A DRAIN WATER TEMPERING KIT. CONTRACT WITH THE MANUFACTURER OF THE DISHWASHER TO COMPLETE FIELD ELECTRICAL CONNECTIONS TO THE DISHWASHER CONTROL CIRCUIT.

ELECTRICAL CLARIFICATIONS:

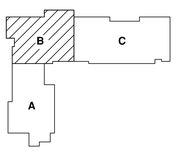
1. ELECTRICAL ROUGH-INS ARE CONSIDERED TO BE CONDUIT, WIRING, JUNCTION BOXES, PULL BOXES, OTHER OUTLETS SUPPLIED IN WALL, DOWN FROM CEILING OR UP FROM THE FLOOR AT THE POINTS INDICATED ON THE ELECTRICAL AND REFRIGERATION PLANS.
2. WHEN THE EQUIPMENT IS A HEAVY POWER USER AND REQUIRES A DIRECT CONNECTION USING FLEX OR WATER TIGHT THE ELECTRICAL CONTRACTOR SHALL (WHEN PULLING WIRE) LEAVE FOUR TO SIX FEET OF EXTRA WIRE TO MAKE THE FINAL CONNECTION WITHOUT A BREAK.
3. FINAL CONNECTIONS FROM THE ROUGH-IN LOCATION TO THE EQUIPMENT SHALL INCLUDE ALL CONDUIT, WIRING, SWITCHES, DISCONNECTS, FUSES, BREAKERS, BOXES, SUPPORTS, FLEX OR WHATEVER IS REQUIRED BY SPECIFICATIONS, CODES OR GOOD WORKMANSHIP TO COMPLETE THE CONNECTION.
4. ANY ITEMS FURNISHED BY K.E.C. CONSIDERED KITCHEN EQUIPMENT REQUIRING FINAL CONNECTIONS INCLUDE WIRING THRU, SWITCHES, CONTROL PANELS, SOLENOIDS, ETC. SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR.
5. LIGHTING IN EXHAUST HOOD, WALK-IN COOLERS AND FREEZERS ARE FURNISHED BY THE K.E.C. TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION.
6. THE ELECTRICAL CONTRACTOR SHALL FINISH WIRING TO THE WALK-IN CONDENSERS AND COILS, DOOR HEATER WIRES, HEATED PRESSURE VENTS OF WALK-IN COOLERS AND FREEZERS AND ALL WIRING BETWEEN THE CONDENSER/ COMPRESSORS AND COOLING COILS.
7. AIR SCREENS REQUIRE WIRING THRU A DOOR ACTUATED MICRO SWITCH.
8. PROVIDE POWER SOURCE TO CONDENSER AREA FOR CONDENSERS AND AUTOMATIC DEFROST SYSTEMS AS LISTED IN REFRIGERATION SCHEDULE, VERIFY LOCATION OF POWER AT CONDENSER LOCATION WITH ARCHITECT.
9. PROVIDE 4 - WIRE COLOR CODED SERVICE FROM FREEZER CONDENSER AND TIME CLOCK TO FREEZER BLOWER COIL IN FIXTURE FOR AUTOMATIC DEFROST SYSTEM TO STOP CONDENSER BLOWER COIL FAN AND START HEATERS IN BLOWER COIL.

ELECTRICAL REQUIREMENTS

- (1) FLY FAN, 48" - 120 V., 1 PH., 7.5 A., J.B. @ +90" A.F.F., WIRED TO DOOR ACTUATED MICRO-SWITCH.
- (3) WALK-IN, COOLER/FREEZER - 120 V., 1 PH., 1.0 K.W., J.B. DOWN FROM OVERHEAD FOR LIGHTS & HEATER WIRE.
- (4) COIL, COOLER - 120 V., 1 PH., 2.0 A., 3-WIRE SYSTEM, J.B. DOWN FROM OVERHEAD FOR BLOWER FANS, DOOR HEATER AND LIGHTS.
- (5) REFRIGERATION SYSTEM, COOLER - 208 V., 3 PH., 6.2 A., PROVIDE POWER SOURCE AT CONDENSER LOCATION, VERIFY EXACT LOCATION w/ARCH. DWGS.
- (6) COIL, FREEZER - 208 V., 1 PH., 10.3 A., 4-WIRE SYSTEM, J.B. DOWN FROM OVERHEAD FOR BLOWER FANS, ELECTRIC DEFROST HEATERS, DRAIN HEATERS, PRESSURE RELIEF HEATER, AND DOOR HEATER. PROVIDE 1" "DRY" CONDUIT FOR 4-WIRE INTERCONNECTION FROM FREEZER BLOWER COIL TO REFRIGERATION SYSTEM AT REMOTE LOCATION.
- (7) REFRIGERATION SYSTEM, FREEZER - 208 V., 3 PH., 11.6 A., PROVIDE POWER SOURCE AT CONDENSER LOCATION, VERIFY EXACT LOCATION w/ARCH. DWGS.
- (16) ICE MACHINE w/BIN - 120 V., 1 PH., 7.0 A., J.B. @ +60" A.F.F.
- (21) HOT CABINET, PORTABLE - 120 V., 1 PH., 12.0 A., S.R. @ + 24" A.F.F.
- (22) HOOD, EXHAUST - 120 V., 1 PH., 1.0 K.W., J.B. DOWN FROM OVERHEAD TO TOP OF HOOD (LIGHTS PRE-WIRED TO J.B.), WIRED TO CONTROL SWITCH MOUNTED ON WALL FOR LIGHTS.
- (23) FIRE SUPPRESSION SYSTEM - 120 V., 1 PH., 15.0 A., DEDICATED CIRCUIT, J.B. DOWN FROM OVERHEAD TO CONTROL PANEL MOUNTED ON HOOD.
- (25) DOUBLE STACKED COMBI OVEN - (2)208 V., 1 PH., 15.0 A. EA., S.R. @ +12" & +48" A.F.F.
- (33) MICROWAVE - 120 V., 1 PH., 13.4 A., S.R. @ +60" A.F.F.
- (34) CONVEYOR TOASTER - 120 V., 1 PH., 14.9 A., S.R. @ +48" A.F.F.
- (35) REFRIGERATOR, TWO SECTION - 120 V., 1 PH., 5.9 A., 1/2 H.P., S.R. @ +72" A.F.F.
- (41) DISPOSER, 2 H.P. - 208 V., 3 PH., 6.0 A., 2 H.P., J.B. @ +12" A.F.F., WIRED THROUGH CONTROL PANEL.
- (43) DISHMACHINE, LOW TEMP - 120 V., 1 PH., 17.1 A., J.B. @ +18" A.F.F., RUN THROUGH CONTROL PANEL.
- (GP1) GENERAL PURPOSE - 120 V., 1 PH., 20.0 A., D.R. @ +24" A.F.F.
- (GP2) GENERAL PURPOSE - 120 V., 1 PH., 20.0 A., D.R. @ +48" A.F.F.
- (GP3) GENERAL PURPOSE - 120 V., 1 PH., 20.0 A., J.B. DOWN FROM OVERHEAD WIRED TO POWER CORD REEL @ +72" A.F.F.

ELECTRICAL SYMBOLS

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- SPECIAL PURPOSE SINGLE RECEPTACLE
- SPECIAL PURPOSE DUPLEX RECEPTACLE
- JUNCTION BOX
- FLOOR RECEPTACLE
- VAPOR PROOF LIGHT
- VAPOR PROOF LIGHT RECESSED
- SWITCH
- POWER SOURCE



KEY PLAN

N.T.S. 1

KITCHEN EQUIPMENT ELECTRICAL ROUGH-IN

SCALE: 1/4" = 1'-0"

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KITCHEN EQUIPMENT
ELECTRIAL ROUGH-IN

K-103

FARMINGTON PRESCHOOL ACADEMY

REFRIGERATION NOTES:

1. WHERE LOCAL CODES OR CONDITIONS CAUSE RELOCATION OF CONDENSER TO BE OTHER THAN DESIGNATED ON PLAN OBTAIN PRIOR APPROVAL FROM ARCHITECT.

2. PROVIDE 10 MIL. PLASTIC VAPOR BARRIER, FULL 4" SLAB URETHANE INSULATION IN SUB-FLOOR AND 2" X 8" HEART REDWOOD SLEEPERS WHERE INDICATED ON PLAN AND IN ACCORDANCE WITH THE SECTION DRAWINGS.

3. FURNISH TO ARCHITECT SHOP DRAWINGS FURNISHED BY THE MANUFACTURER PRIOR TO POURING OF SLAB. DRAWINGS MUST BE APPROVED BY ARCHITECT.

4. FOR ADDITIONAL INFORMATION ON REFRIGERATION INSTALLATION REFER TO SECTION 11400 IN GENERAL SPECIFICATIONS.

REFRIGERATION GENERAL NOTES:

1. GENERAL CONTRACTOR

A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
B. GENERAL CONTRACTOR SHALL COORDINATE LOCATION OF ROOF PAD OR RAISED CONCRETE PAD FOR REFRIGERATION SYSTEM
C. GENERAL CONTRACTOR SHALL INSTALL, PREPARE AND WEATHER PROOF THE ROOF PAD PLATFORM/CONCRETE PAD AND CURBED OPENINGS FOR THE REFRIGERATION SYSTEM.

2. REFRIGERATION CONTRACTOR

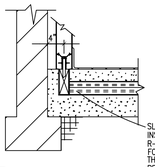
A. ALL COPPER TUBING TO BE REFFRIGANT GRADE A, C, R, OR TYPE "L".
B. SILVER SOLDER AND/OR SIL-FOS SHALL BE USED FOR ALL REFRIG-ERANT PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
C. ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 300 P.S.I, AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.
D. THE COMPLETE SYSTEM SHALL BE EVACUATED WITH VACUUM PUMP.
E. CHARGE, TEST AND ADJUST EACH UNIT TO BE IN AN OPERATIONAL SYSTEM.
F. REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN-LIKE HEATER IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.

3. ELECTRICAL CONTRACTOR

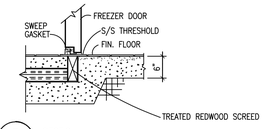
A. ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS CALLED FOR IN THE WIRING DIAGRAM.
B. ELECTRICAL CONTRACTOR TO PROVIDE 4-WIRE COLOR CODED SERVICE FROM THE TIME CLOCK AT THE REFRIGERATION PACKAGE TO BLOWER COIL IN FIXTURE FOR AUTOMATIC DEFROST.
C. ELECTRICAL CONTRACTOR TO CONNECT DRAIN-LIKE HEATER IN FREEZER.
D. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.

4. PLUMBING CONTRACTOR

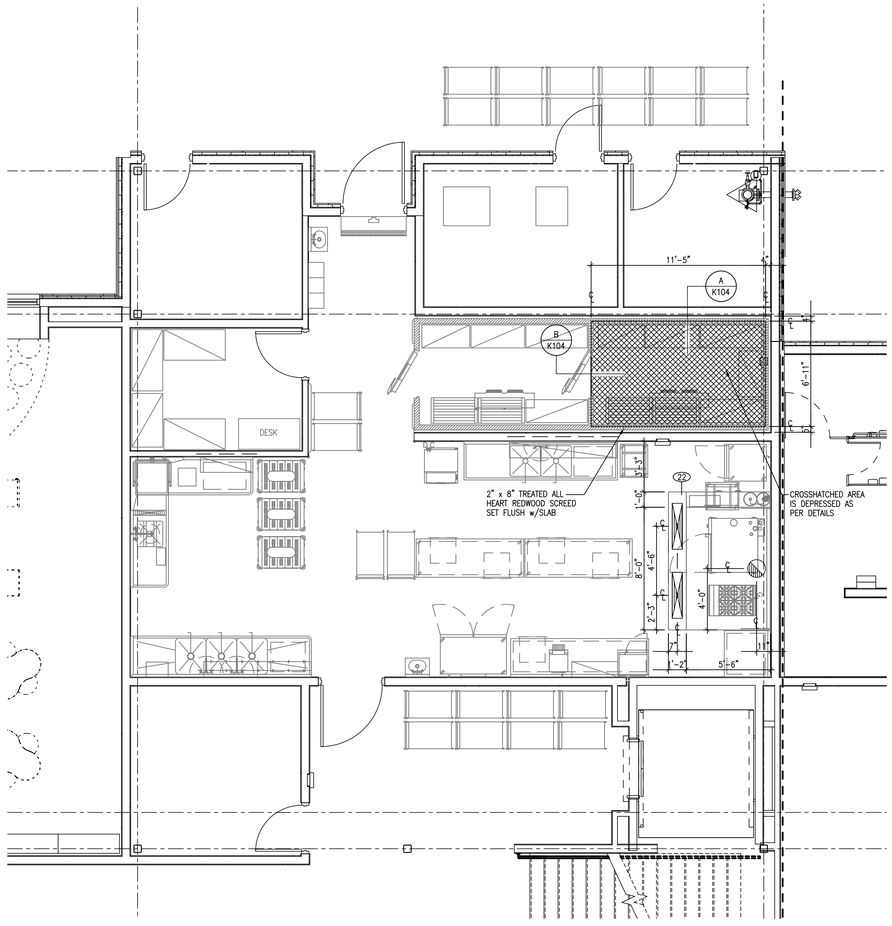
A. PLUMBING CONTRACTOR TO PROVIDE TYPE "M" COPPER DRAIN LINES FOR WALK-IN REFRIGERATION AND FREEZER. PITCHED 1/2" PER FOOT OF RUN. IN FREEZER, UNHEATED DRAIN LINE MUST BE OUTSIDE OF INSU-ATION TO PREVENT FREEZING. TRAP DRAIN LINE OUTSIDE OF REFRIG-ERATED SPACE TO AVOID ENTRANCE OF WARM AND MOIST AIR.
B. REFRIGERATION CONTRACTOR TO PROVIDE INDIVIDUAL DRAIN LINE FOR EACH EVAPORATOR UNLESS OTHERWISE CALLED FOR.
C. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.



A / FS701 SECTION
FREEZER WALL @ BUILDING WALL



B / FS701 SECTION
FREEZER/COOLER DOOR



VENTILATION NOTES

1. UNISTRUT SUPPORTS AND THREADED HANGER RODS SHALL BE SUPPLIED BY THE CONTRACTOR. CONTRACTOR TO PROVIDE ACCESS OPENINGS, HOLES, CORE DRILLING OR STRUCTURAL SUPPORT FOR THE UNISTRUT OR HANGER RODS.

2. ALL EXHAUST DUCTS SHALL BE 16 GAUGE STEEL, TOTALLY WELDED AND WATER TIGHT.

3. TRANSITION OF DUCT TO HOOD SHALL BE ACCOMPLISHED BY THE CONTRACTOR AND SHALL BE ALL WELDED.

4. ALL ROOF-OPENINGS TO CODE SHALL BE ACCOMPLISHED BY CONTRACTOR PRIOR TO ROOFING APPLICATION.

5. HOOD SHALL BE FIELD MEASURED TO FIT SNUGLY BETWEEN WALLS, EXCESSIVE SILICONE FILLER OR TRIM WILL NOT BE ACCEPTABLE.

6. WHERE LIGHTS ARE SPECIFIED, PROVIDE THE TYPE OF LIGHT FIXTURES AS SPECIFIED AND PRE-WIRE THESE FIXTURES TO A JUNCTION BOX IN OR ON THE HOOD WHERE SHOWN ON PLAN READY FOR FINAL CONNECTION BY CONTRACTOR. PROVIDE SWITCHES AND WIRING TO CONTROL LIGHTS.

7. CONTRACTOR SHALL SUBMIT HOOD SUPPRESSION SYSTEM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.

8. THE ACTUATION OF THE FIRE EXTINGUISHING SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL OR ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT. THE FUEL AND ELECTRICAL SUPPLY RESET SHALL BE MANUAL.

9. THE VENTILATION SYSTEM IN CONNECTION WITH HOODS SHALL BE OPERATED AT THE REQUIRED RATE OF AIR MOVEMENT, AND CLASSIFIED GREASE FILTERS SHALL BE IN PLACE WHEN THE EQUIPMENT UNDER THE KITCHEN GREASE HOOD IS USED.

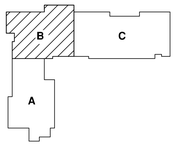
10. WHERE GREASE EXTRACTORS ARE INSTALLED, THEY SHALL BE IN OPERATION WHEN THE EQUIPMENT UNDER THE KITCHEN GREASE HOOD IS USED.

EXHAUST VENTILATOR SPECIFICATION — ITEM 22

SIZE:	LENGTH 8'-0" WIDTH 5'-6" HEIGHT 2'-0" WEIGHT 760 lbs
TYPE:	MFG. CAPTIVEAIRE MODEL 6624-ND-2-PSP-F
CONSTRUCTION:	18 GA. STAINLESS STEEL MINIMUM, ALL WELDED.
EXHAUST DUCT SIZE:	LENGTH 14" DIA. WIDTH QUANTITY 1
MAKE-UP DUCT SIZE:	LENGTH 36" WIDTH 8" QUANTITY 2
EXHAUST REQUIREMENTS:	1600 C.F.M. EA. @ 1497 F.P.M. EA. @ 0.551 S.P. EA.
MAKE-UP REQUIREMENTS:	640 C.F.M. EA. @ F.P.M. EA. @ 0.157 S.P. EA.
VAPOR PROOF LIGHT:	QUANTITY 2 LED LIGHT X FLUORESCENT LENGTH
FILTERS:	FILTERS TO BE U.L. LISTED GREASE EXTRACTORS, S/S CONST.

ACCESSORIES:	YES	NO
HANGER RODS	X	
GREASE RECEPTACLE	X	
18 GA. S/S WALL FLASHING	X	
3" AIR SPACE BEHIND HOOD	X	
DUCT COLLARS (MAKE-UP AIR)	X	
FIRE DAMPERS (MAKE-UP AIR)		X
FIRE SUPPRESSION SYSTEM	X	
LIGHTS PRE-WIRED TO J.B.	X	

COMMENTS: ALL WELDED CONSTRUCTION, E.T.L. LISTED TYPE (I) EXHAUST VENTILATOR



KEY PLAN N.T.S.

KITCHEN EQUIPMENT EXHAUST AND DEPRESSION PLAN

SCALE: 1/4" = 1'-0"

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KITCHEN EQUIPMENT EXHAUST AND DEPRESSION PLAN

K-104

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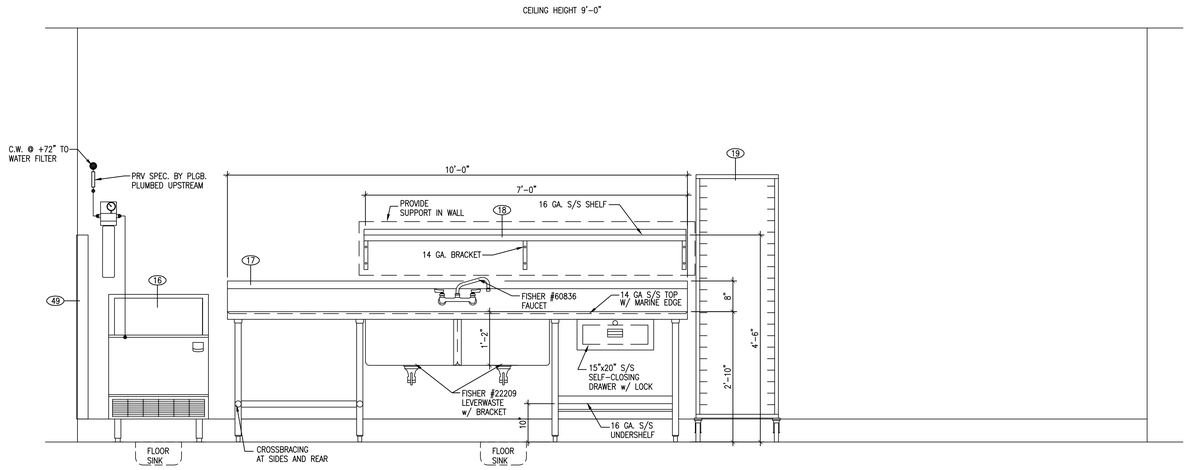
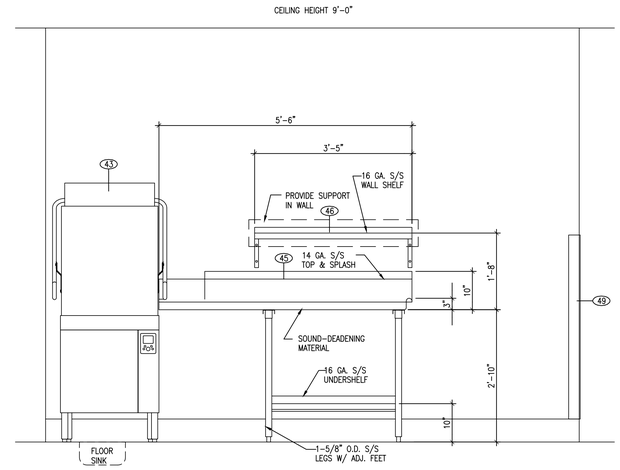
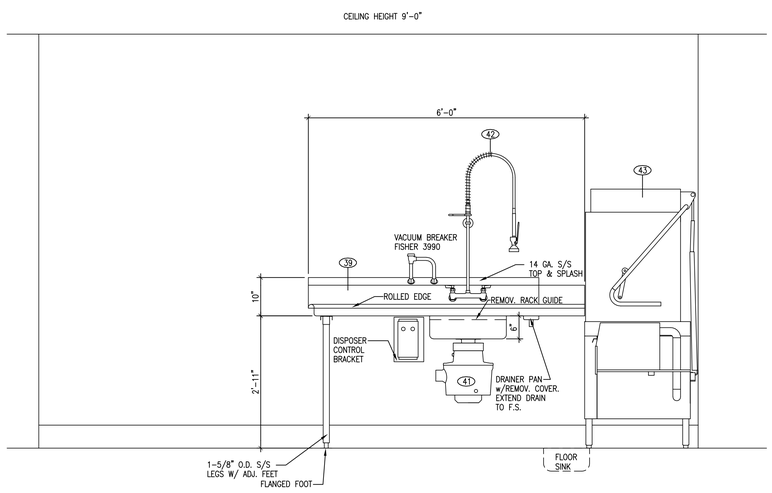
FARMINGTON PRESCHOOL ACADEMY



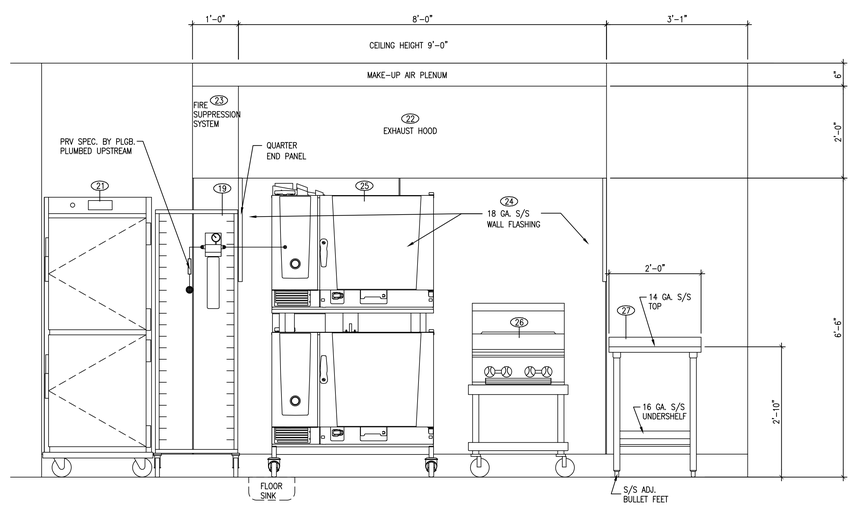
1 / K401 ELEVATION AT EXHAUST HOOD
SCALE: 3/4" = 1' - 0"



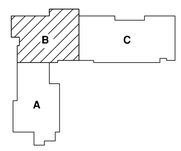
2 / K401 ELEVATION AT EXHAUST HOOD
SCALE: 3/4" = 1' - 0"



3 / K401 ELEVATION AT EXHAUST HOODS
SCALE: 3/4" = 1' - 0"



4 / K401 ELEVATION AT EXHAUST HOODS
SCALE: 3/4" = 1' - 0"



KEY PLAN N.T.S.

FOOD SERVICE EQUIPMENT ELEVATIONS
SCALE: 1/4" = 1'-0"

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
LICENSED ARCHITECT
ARCHITECT

DESIGNED TO EARN THE ENERGY STAR
The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

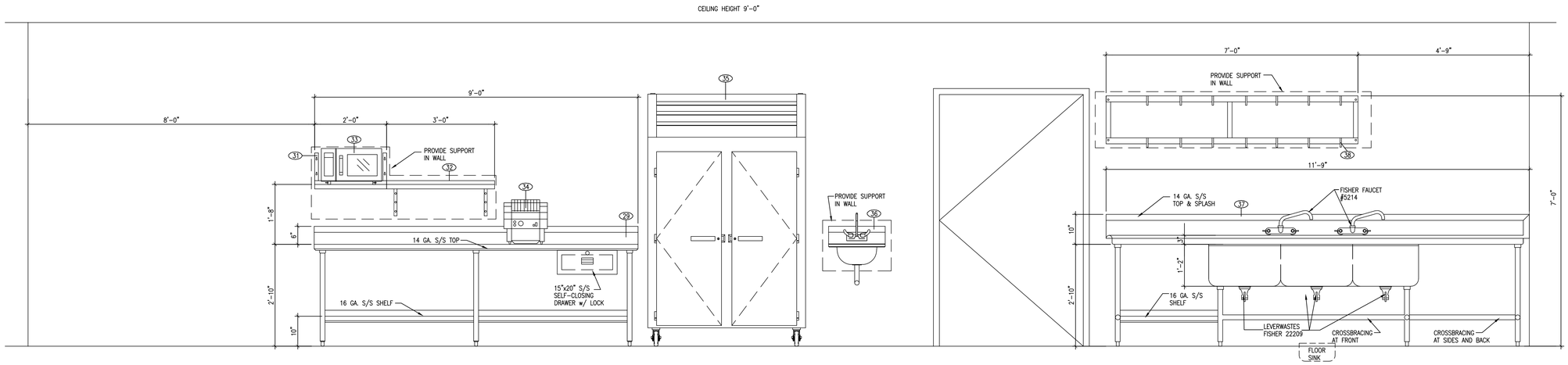
PRICING SET
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	PRICING SET
DATE:	JANUARY 25, 2024
PROJECT NO:	K23-001
DRAWN BY:	AG
CHECKED BY:	AG

SHEET TITLE
KITCHEN EQUIPMENT ELEVATIONS

K-401

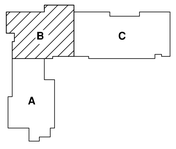


5 / K402 ELEVATION AT EXHAUST HOODS

SCALE: 3/4" = 1' - 0"

FOOD SERVICE EQUIPMENT ELEVATIONS

SCALE: 1/4" = 1'-0"



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REGISTERED
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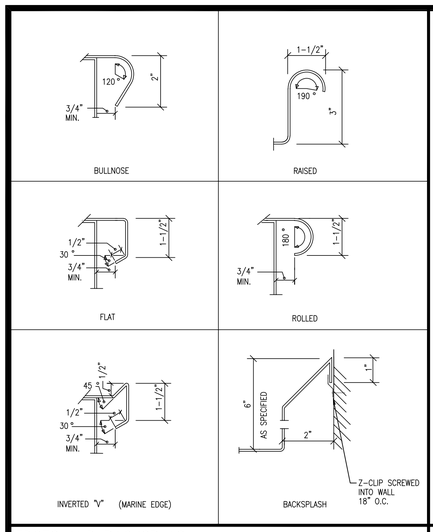
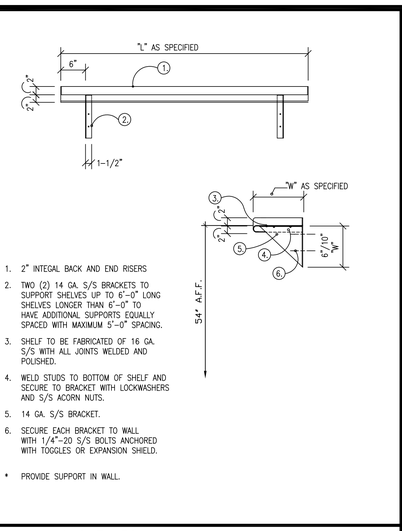
SHEET TITLE
KITCHEN EQUIPMENT ELEVATIONS

K-402



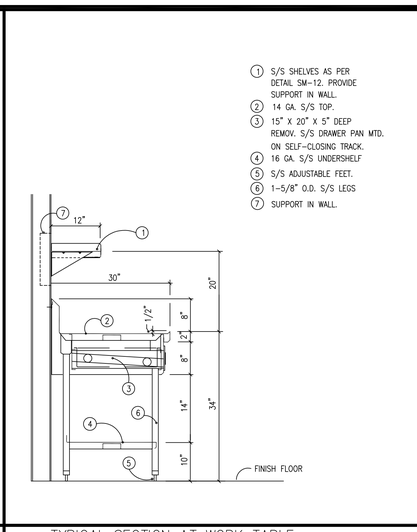
EDGES AND BACKSPLASH DETSM10



1. 2" INTEGAL BACK AND END RISERS
2. TWO (2) 14 GA. S/S BRACKETS TO SUPPORT SHELVES UP TO 6'-0" LONG SHELVES LONGER THAN 6'-0" TO HAVE ADDITIONAL SUPPORTS EQUALLY SPACED WITH MAXIMUM 5'-0" SPACING.
3. SHELF TO BE FABRICATED OF 16 GA. S/S WITH ALL JOINTS WELDED AND POLISHED.
4. WELD STUDS TO BOTTOM OF SHELF AND SECURE TO BRACKET WITH LOCKWASHERS AND S/S ACORN NUTS.
5. 14 GA. S/S BRACKET.
6. SECURE EACH BRACKET TO WALL WITH 1/4"-20 S/S BOLTS ANCHORED WITH TOGGLES OR EXPANSION SHIELD.

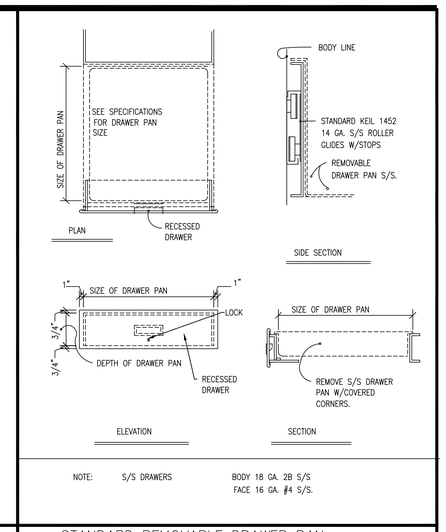
* PROVIDE SUPPORT IN WALL.

WALL HUNG SHELVES DETSM12



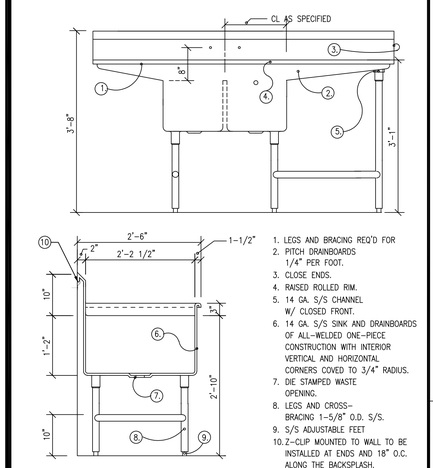
1. S/S SHELVES AS PER DETAIL SM-12. PROVIDE SUPPORT IN WALL.
2. 14 GA. S/S TOP.
3. 15" X 20" X 5" DEEP REMOV. S/S DRAWER PAN MTD. ON SELF-CLOSING TRACK.
4. 16 GA. S/S UNDERSHELF
5. S/S ADJUSTABLE FEET.
6. 1-5/8" O.D. S/S LEGS
7. SUPPORT IN WALL.

TYPICAL SECTION AT WORK TABLE DETSM13



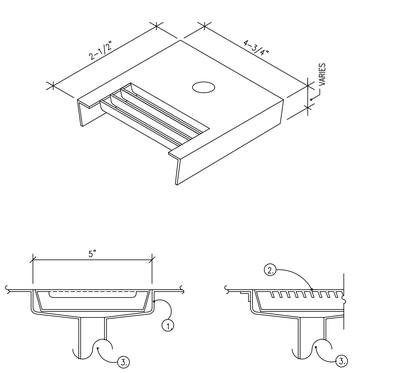
NOTE: S/S DRAWERS BODY 18 GA. 2B S/S FACE 16 GA. #4 S/S.

STANDARD REMOVABLE DRAWER PAN DETSM19



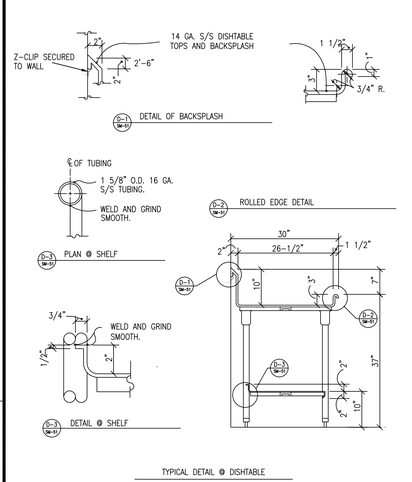
1. LEGS AND BRACING REQ'D FOR
2. PITCH DRAINBOARDS 1/4" PER FOOT.
3. CLOSE ENDS.
4. RAISED ROLLED RIM.
5. 14 GA. S/S CHANNEL W/ CLOSED FRONT.
6. 14 GA. S/S SINK AND DRAINBOARDS OF ALL-WELDED ONE-PIECE CONSTRUCTION WITH INTERIOR VERTICAL AND HORIZONTAL CORNERS COVED TO 3/4" RADIUS.
7. DIE STAMPED WASTE OPENING.
8. LEGS AND CROSS-BRACING 1-5/8" O.D. S/S.
9. S/S ADJUSTABLE FEET
10. Z-CLIP MOUNTED TO WALL TO BE INSTALLED AT ENDS AND 18" O.C. ALONG THE BACKSPLASH.

SINKS AND DRAINBOARDS DETSM22

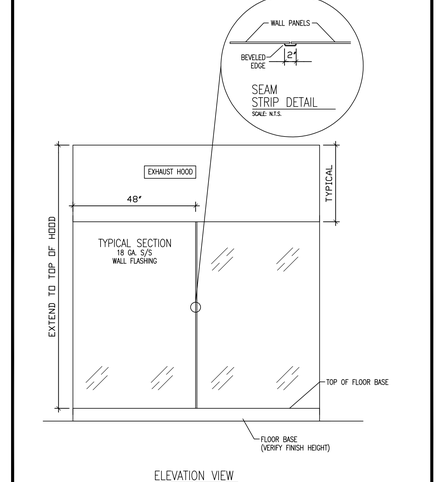


1. DRAIN TROUGH TO BE FULLY WELDED 16 GA. S/S ALL COVED PANS MADE INTEGRAL WITH TABLE TOP SLOPE BOTTOM TO DRAIN.
2. ANTI-SPLASH STRAINER w/FINGER HOLE AT ONE END.
3. 1" DRAIN S/S TUBE WELDED IN AS SHOWN.

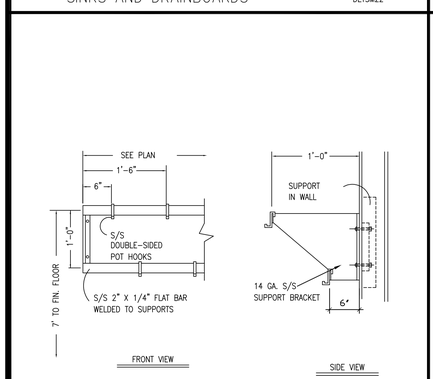
DRAIN TROUGH DETAIL DETSM37



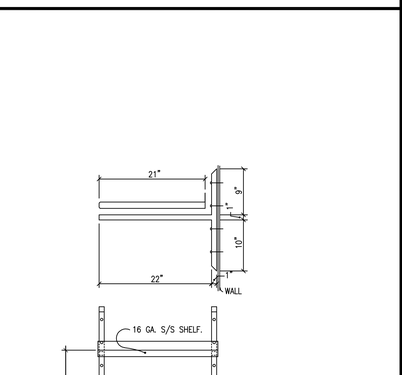
TYPICAL DETAIL AT DISHTABLE DETSM51



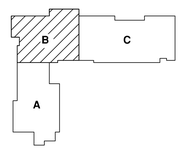
TYPICAL DETAIL AT S/S WALL FLASHING & HOOD



WALL MOUNTED POT RACK DETSM54



OVERSHELF FOR MICROWAVE OVEN DETSM61



KEY PLAN N.T.S.

KITCHEN EQUIPMENT SPECIAL DETAILS

SCALE: NOT TO SCALE

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STATE OF NEW MEXICO
03/21/2024
SANJAY L. ENGINEER
No. 3088
REGISTERED PROFESSIONAL ENGINEER
ARCHITECT

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FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

PRICING SET
MARCH 2024

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CHECKED BY:	AG

SHEET TITLE
KITCHEN EQUIPMENT SPECIAL DETAILS

K-501

FARMINGTON PRESCHOOL ACADEMY

HOOD INFORMATION – JOB#6323790

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		6624 ND-2-PSP-F	CAPTIVEAIRE	8' 0"	600 DEG	I	HEAVY	200	1600			4"	14"	1600	1497	-0.551"	1280	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	LEFT	12"x66"x24"	TANK FS	4.0/4.0	SC-111110MA	1 LIGHT 1 FAN	YES	760 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		BACKSPLASH 80.00" HIGH X 108.00" LONG 430 SS VERTICAL.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	108"	14"	6"	MUA	8"	36"		640	0.157"
						MUA	8"	36"		640	0.157"

ELECTRICAL PACKAGE – JOB#6323790

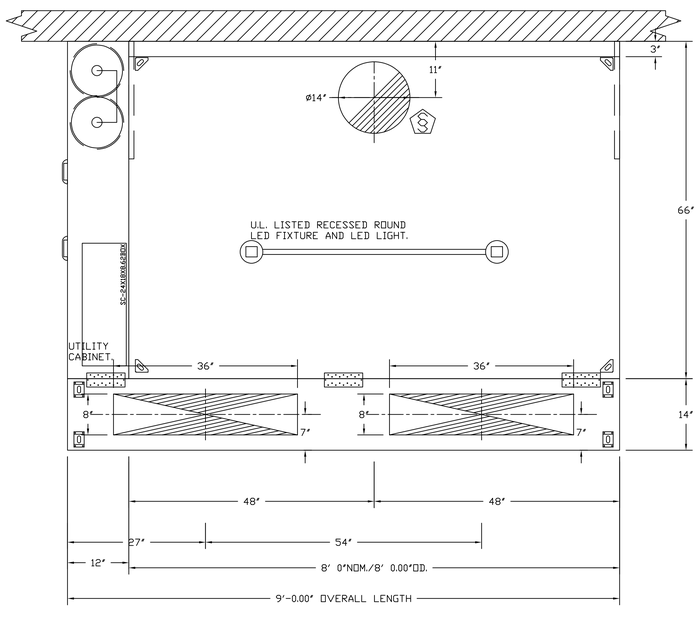
NO	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	QUANTITY	OPTION	FANS CONTROLLED TYPE	Φ	HP	VOLT	FLA
1		SC-111110MA	UTILITY CABINET LEFT	SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EXHAUST	1	1.000	115	12.6
							SUPPLY	1	1.000	115	12.6

FIRE SYSTEM INFORMATION – JOB#6323790

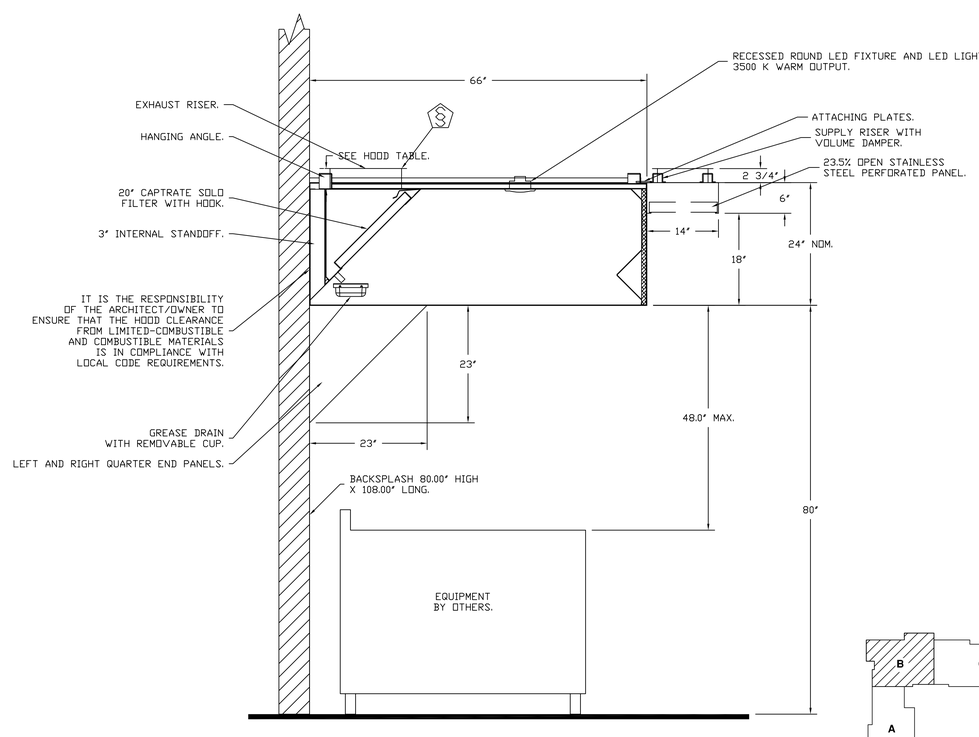
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	23	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

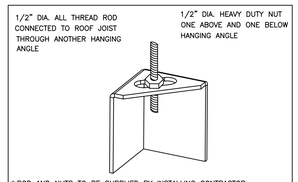
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	TBD	CAPTIVEAIRE SYSTEMS



PLAN VIEW – HOOD #1
8' 0.00" LONG 6624ND-2-PSP-F



SECTION VIEW – MODEL 6624ND-2-PSP-F
HOOD – #1



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY.

ND-2 HANGING ANGLE DETAIL

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"H)	DIM FROM FRONT (30"H)
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF 2847BD	2.00"	14.25"	–
VHB/VHB-G	36"X36"	42"X42"	48"X48"
FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"

HANGING ANGLE LOCATIONS

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM(*)}}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.

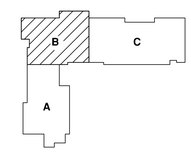
CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

#3054804-001 & #3054804-002 — STANDARD 710 — Intertek — BUILT IN ACCORDANCE WITH NFPA No. 96

Listed under ETL File number 3054804-001/002

BUILDING CODES



KEY PLAN N.T.S.

KITCHEN EQUIPMENT EXHAUST HOOD DETAILS

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STATE OF NEW MEXICO 03/21/2024 SANJAY I. ENGINEER No. 3088 STAMPED DRAWING
ARCHITECT

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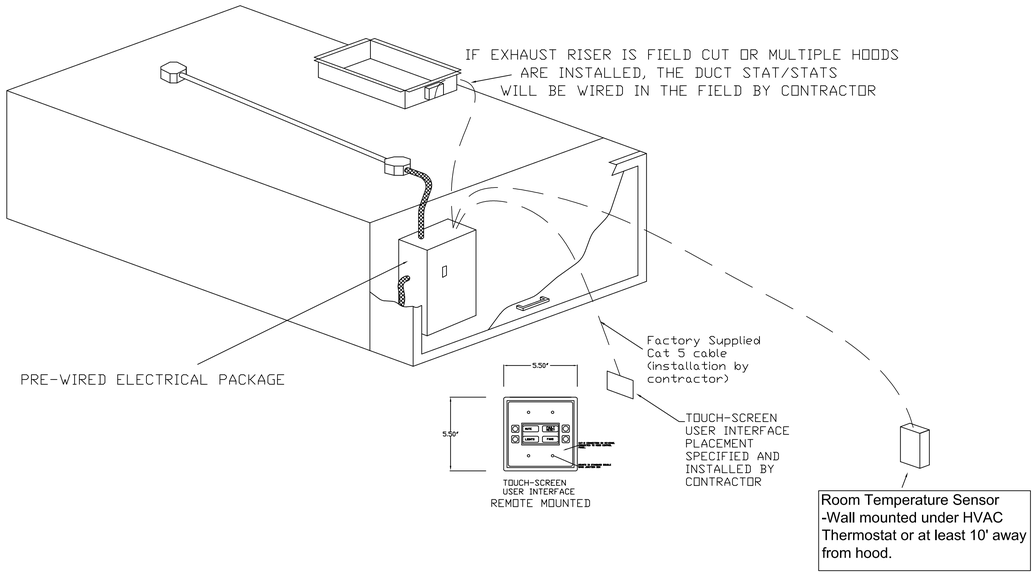
SHEET TITLE
KITCHEN EQUIPMENT EXHAUST HOOD DETAILS

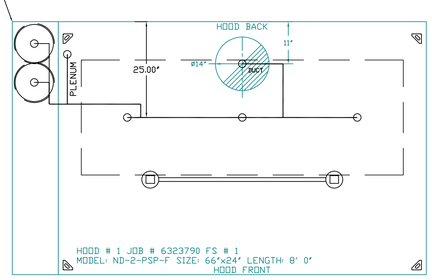
K-502

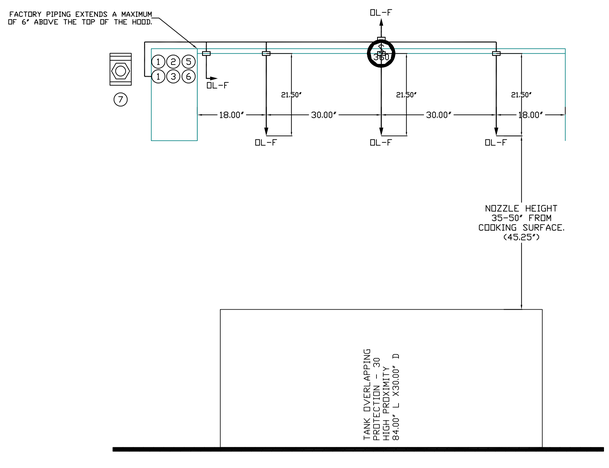
11/15/2023 5:50:27 PM

FARMINGTON PRESCHOOL ACADEMY



- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS





NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

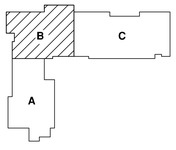
JOB #: 6323790.
JOB NAME: FARMINGTON PRESCHOOL.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 23. MAXIMUM FP: 40.
HOOD # 1 8' 0.00" LONG x 66" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.



KEY PLAN N.T.S.

KITCHEN EQUIPMENT EXHAUST HOOD DETAILS

SCALE: NOT TO SCALE

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STATE OF NEW MEXICO
03/21/2024
SANJAY I. ENGINEER
No. 3088
SEALED DOCUMENT
ARCHITECT

DESIGNED TO EARN THE ENERGY STAR
The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

FARMINGTON PRESCHOOL ACADEMY
5840 FORTUNA DR.
FARMINGTON, NM 87402

PRICING SET
MARCH 2024

MARK	DATE	DESCRIPTION

ISSUE:	PRICING SET
DATE:	JANUARY 25, 2024
PROJECT NO:	K23-001
DRAWN BY:	AG
CHECKED BY:	AG

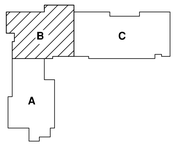
SHEET TITLE
KITCHEN EQUIPMENT EXHAUST HOOD DETAILS

K-503

ITEM NUMBER	AMOUNT REQUIRED	PURCHASED ITEM	EXISTING/RELOCATE	FUTURE/VENDOR/OWNER	FABRICATED ITEM	MILLWORK ITEM	DESCRIPTION	VOLTS & PHASE	KILOWATTS/AMPS	HORSEPOWER	JUNCTION BOX	CONVENIENCE OUTLET	HOT WATER	COLD WATER	R/O WATER REQD.	DIRECT WASTE WITH CLEANOUT	INDIRECT WASTE	EXTEND DRAIN TO F.S.	GAS B.T.U. IN 1000'S	COMMENTS
								ELECTRICAL					PLUMBING							
1	1	X					FLY FAN, 48"	120	7.5 A.		X									WIRED THRU DOOR ACTIVATED MICRO-SWITCH
2	1	X					HAND WASH SINK						1/2"	1/2"		1-1/2"				PROVIDE SUPPORT IN WALL
3	1	X					WALK-IN, COOLER/FREEZER	120	1.0 KW		X									LIGHTS AND HEATER WIRE
4	1	X					COIL, COOLER	120	2.0 A.		X						1"	X		
5	1	X					REFRIGERATION SYSTEM, COOLER	208/3	6.2 A.		X									WEIGHT: 188 lbs. VERIFY LOCATION w/ARCHITECT
6	1	X					COIL, FREEZER	208/1	10.3 A.		X						1"	X		DRAIN LINE WRAPPED w/HEATER WIRE
7	1	X					REFRIGERATION SYSTEM, FREEZER	208/3	11.6 A.		X									WEIGHT: 335 lbs. VERIFY LOCATION w/ARCHITECT
8	3	X					SHELVING, 36" x 18"													
9	2	X					SHELVING, 42" x 18"													
10	3	X					SHELVING, 48" x 18"													
11	1	X					LOCKERS													
12	4	X					DUNNAGE RACK, 36" x 20"													
13	3	X					SHELVING, 48" x 24"													
14	1	X					SHELVING, 42" x 24"													
15							SPARE NUMBER													
16	1	X					ICE MACHINE w/BIN	120	7.0 A.		X			1/2"			1"	X		PLUMB WATER FILTER UPSTREAM
17	1	X			X		PREP SINK						1/2"	1/2"			2"	X		
18	1	X			X		WALL MOUNTED SHELF													PROVIDE SUPPORT IN WALL
19	2	X					PAN RACK													
20							SPARE NUMBER													
21	1	X					HOT CABINET, PORTABLE	120	12.0 A.			X								CORD AND PLUG NEMA 5-15P
22	1	X					EXHAUST HOOD	120	1.0 KW		X									LIGHTS PRE-WIRED TO JB
23	1	X					FIRE SUPPRESSION SYSTEM	120	15.0 A.		X									MECHANICAL SOLENOID. SHUNT-TRIPS SPECIFIED BY ELECTRICAL
																				DEDICATED CIRCUIT.
24	1	X			X		S/S WALL FLASHING													
25	1	X					DOUBLE STACKED COMBI OVEN	(2)208/1	15.0 A. EA.			X		(2)3/4"			(2)2"	X	99	(2)49,500 BTU. EA.; 3/4" NPT PER OVEN
																				WATER TREATMENT PLUMBED UPSTREAM; DATA CONNECTION
26	1	X					FOUR BURNER RANGE w/STAND												140	1-1/4" NPT REAR GAS CONNECTION. NATURAL GAS.
27	1	X			X		WORK TABLE													
28	2	X			X		PORTABLE WORK TABLE													
29	1	X			X		WORK TABLE													
30							SPARE NUMBER													
31	1	X			X		WALL MOUNTED MICROWAVE SHELF													
32	1	X			X		WALL MOUNTED SHELF													
33	1	X					MICROWAVE	120	13.4 A.			X								CORD AND PLUG NEMA 5-15P
34	1	X					CONVEYOR TOASTER	120	14.9 A.			X								CORD AND PLUG NEMA 5-15P
35	1	X					REFRIGERATOR, TWO SECTION	120	5.9 A.	1/2		X								CORD AND PLUG NEMA 5-15P
36	1	X					HAND WASH SINK w/EYE WASH						1/2"	1/2"		1-1/2"				PROVIDE SUPPORT IN WALL
37	1	X			X		THREE COMPARTMENT SINK						(2)3/4"	(2)3/4"			2"	X		PLUMB THRU GREASE INTERCEPTOR
38	1	X			X		WALL MOUNTED UTENSIL RACK													PROVIDE SUPPORT IN WALL
39	1	X			X		SOILED DISHTABLE										1"	X		DRAINER PAN
40							SPARE NUMBER													
41	1	X					DISPOSER, 2 HP	208/3	6.0 A.	2	X			1/2"		2"				WIRED TO CONTROL PANEL. VACCUUM BREAKER
42	1	X					PRE-RINSE, SPLASH MOUNTED						1/2"	1/2"						
43	1	X					DISHMACHINE, LOW TEMP	120	17.1 A.		X		3/4"	(140°F.)			1-1/2"	X		
																				PEAK RATE OF DRAIN FLOW 3.5 GPM. SINGLE PT. ELEC. CONN.
44	1	X					WATER SOFTENER							3/4"			3/4"	X		RUN SOFTENED C.W. TO ITEM 43
45	1	X			X		CLEAN DISHTABLE													
46	1	X			X		WALL MOUNTED SHELF													PROVIDE SUPPORT IN WALL
47	3	X					PORTABLE DRYING RACK													
48	24	X					UTILITY CART, MEAL TRANSPORT													12 CARTS LOCATED IN CLASSROOMS
49	2	X			X		CORNER GUARD													
50	LOT	X					BUMPER GUARD													

KITCHEN EQUIPMENT SCHEDULE

SCALE: NOT TO SCALE



KEY PLAN

N.T.S. 1

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SHEET TITLE

KITCHEN EQUIPMENT SCHEDULE

K-601

FARMINGTON PRESCHOOL ACADEMY

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