MAXWELL SPECIAL UTILITY DISTRICT OFFICE BUILDING

MAXWELL, TEXAS

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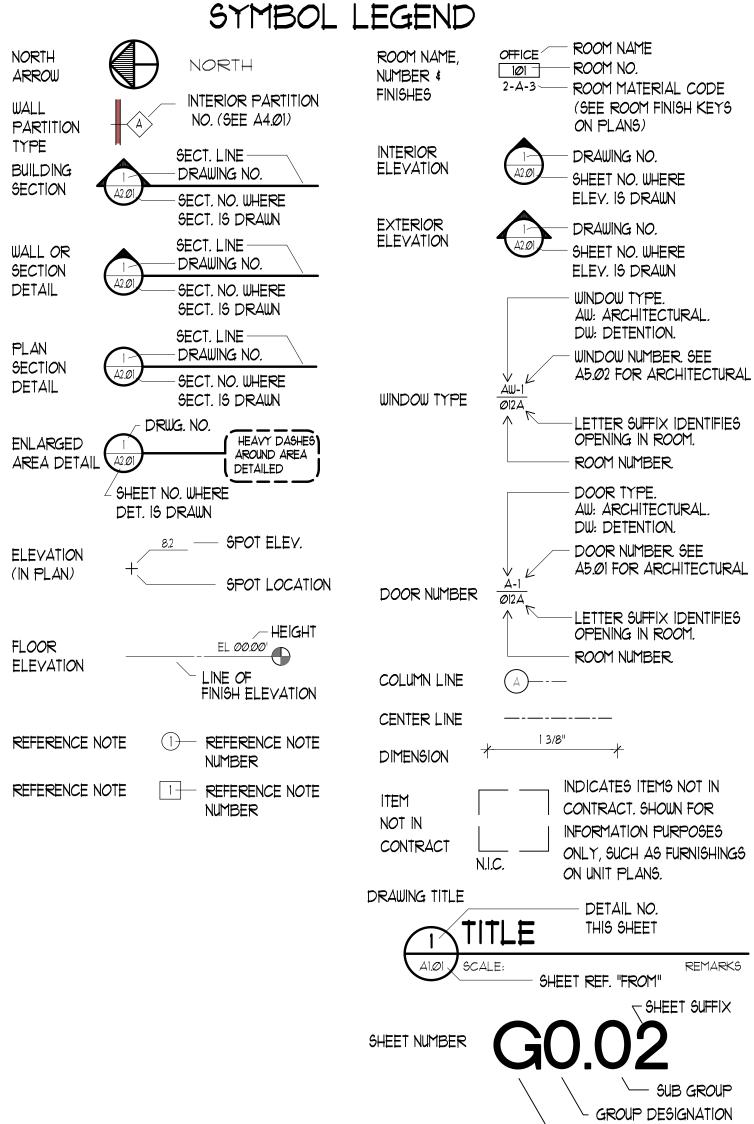
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FOR N N SET **PROGRESS**

GENERAL NOTES

THESE NOTES REFER TO ARCHITECTURAL DRAWINGS ONLY

- DRAWING NOTATION: MATERIALS IDENTIFICATIONS APPEAR AS ONE OF THE FOLLOWING: A. MATERIAL KEYNOTE WHICH IS REFERENCED BACK TO THE SPECIFICATIONS BY DIVISION.
 - B. REFERENCE NOTES
 - C. FULL NOTES DIRECTLY ON THE DRAWING
 - WHERE USED, KEYNOTES HAVE BEEN INCLUDED AS AN AID TO THE CONTRACTOR ESPECIALLY IN THE AREA OF COORDINATING THE DRAWINGS AND SPECIFICATIONS, THE KEY NOTE SYSTEM IS NOT INTENDED TO REPLACE THE RESPONSIBILITY OF THE CONTRACTOR IN HIS COORDINATION PROCESS.
- 2. THE CONTRACTORS SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS, BOTH EXISTING AND NEW, REPORTING ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION BEFORE BEGINNING ANY PHASE OF THE WORK AS EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK FITTING.



- DISCIPLINE PREFIX

ABBREVIATIONS

	ABBREVIAI		1 11/1	
	A		NYT	
ACOUST.	ACOUSTICAL	I.D.	INSIDE DIAMETER	
ADA AFF.	AMERICAN WITH DISABILITIES ACT ABOVE FINISHED FLOOR	INT.	INTERIOR	
ALUM.	ALUMINUM	JT.	JOINT	
ALUIT.	ANGLE	LAV. L.P.	LAVATORY LOW POINT	
APPX.	APPROXIMATE	⊢. /⁻.	M	
ASB.	ASBESTOS			
A/C	AIR CONDITIONER	MANF.	MANUFACTURER	
7/0	AIR CONDITIONER	MECH.	MECHANICAL	
	В	MEMB.	MEMBRANE	
BD.	BOARD	MISC.	MISCELLANEOUS	
BM.	BENCHMARK	MTD.	MOUNTED	
BLK.	BLOCK	M.P.	MID POINT	
DLIN	_		N	
	C	N	NORTH	
CLG.	CEILING	N.T.S.	NOT TO SCALE	
CEM.	CEMENT	NO. OR #	NUMBER	
CTR.	CENTER	N.I.C.	NOT IN CONTRACT	
C. TO C.	CENTER TO CENTER			
CL.OR (2	CENTER LINE		0	
C.T.	CERAMIC TILE	OPP.	OPP05ITE	
	CHANNEL	OZ.	OUNCE	
C.R.	COLD ROLLED	O.C.	ON CENTER	
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER	
C.	COURSE	O.A.	OVERALL	
C.F.M.	CUBIC FEET/MINUTE	O.H.	OVER HEAD	
CONT.	CONTINUOUS		PQ	
CMU C.J.	CONCRETE MASONRY UNIT CONTROL JOINT	PR.	PAIR	
J.U.	-	PLAS.	PLASTER	
	D	PL. LAM.	PLASTIC LAMINATE	
DIA.	DIAMETER	P	PLATE OR PROPERTY LINE	
DIM.	DIMENSION	d	PENNY	
DBL.	DOUBLE	LB. OR #	POUND	
DN.	DOWN	PLMG.	PLUMBING	
DS.	DOWN SPOUT			
DR.	DOOR		R	
DF.	DRINKING FOUNTAIN	R. OR RAD.	RADIUS	
DMP.	DAMP PROOFING	RECP.	RECEPTACLE OR REINFORCE	
DEC	DETENTION EQUIPMENT CONTRACTOR	RE: OR REF.	REFER TO	
	E	RES.	RESILIENT	
E	EA6T	REQD. OR RQD.	REQUIRED	
EL.	ELEVATION	RM.	ROOM	
EQ.	EQUAL	R.O.	ROUGH OPENING	
EG.	LOUAL		•	
EVU	EVILALIST		4	
EXH.	EXHAUST		5	
EXP.	EXPANSION	5	SOUTH	
EXP. JT.	EXPANSION EXPANSION JOINT	5.M.	SOUTH SHEET METAL	
EXP. EXP. JT. EXT.	EXPANSION EXPANSION JOINT EXTERIOR	SM. STRUC.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL	
EXP. EXP. JT. EXT. EDF.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN	S.M. STRUC. ST. OR STL.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL	
EXP. EXP. JT. EXT.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER	5M. 5TRUC. 5T. OR 5TL. 9CHD.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE	INC
EXP. EXP. JT. EXT. EDF. EWC. EX6T. OR EX.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING	SM. STRUC. ST. OR STL. SCHD. SECT.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION	ION
EXP. EXP. JT. EXT. EDF. EWC. EX6T. OR EX.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER	SM. STRUC. ST. OR STL. SCHD. SECT. SH.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER	-
EXP. EXP. JT. EXT. E.DF. EW.C. EX6T. OR EX. ELEC.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET	CTION!
EXP. EXP. JT. EXT. E.DF. EW.C. EX6T. OR EX. ELEC.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE	-
EXP. EXP. JT. EXT. E.DF. EW.C. EX6T. OR EX. ELEC.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD	—
EXP. EXP. JT. EXT. E.D.F. E.W.C. EX6T. OR EX. ELEC. EF.I.6.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE	—
EXP. EXP. JT. EXT. EDF. EWC. EX6T. OR EX. ELEC. EF.I.S.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM FINISH	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD	-
EXP. EXP. JT. EXT. EDF. EWC. EX6T. OR EX. ELEC. EF.I.6.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM F FINISH FINISH FLOOR	SM. STRUC. ST. OR STL. SCHD. SECT. SH. SHT. SQ. STD. SHTHG.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING	—
EXP. EXP. JT. EXT. E.DF. E.W.C. EX6T. OR EX. ELEC. EF.I.S. FIN. FF. FE.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM F FINISH FINISH FLOOR FIRE EXTINGUISHER	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD. \$HTHG.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING T TACK BOARD	—
EXP. EXP. JT. EXT. EDF. EWC. EX6T. OR EX. ELEC. EF.I.S. FIN. FF. FE. FE.C.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM FINISH FINISH FLOOR FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD. \$HTHG.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING T TACK BOARD TELEPHONE	—
EXP. EXP. JT. EXT. E.D.F. E.W.C. EXST. OR EX. ELEC. E.F.I.S. FIN. F.F. F.E. F.E.C. F.H.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM F FINISH FINISH FLOOR FIRE EXTINGUISHER CABINET FIRE HOSE	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD. \$HTHG. T.B. TEL. T.Y.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING T TACK BOARD TELEPHONE TELEVISION	—
EXP. EXP. JT. EXT. E.DF. E.W.C. EX6T. OR EX. ELEC. EF.I.S. FIN. FF. FE. FE.C. F.H. F.H.C.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM F FINISH FINISH FLOOR FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE HOSE CABINET	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD. \$HTHG.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING T TACK BOARD TELEPHONE TELEVISION TOP OF CURB	CONCEDITORION
EXP. EXP. JT. EXT. EDF. EWC. EX6T. OR EX. ELEC. EF.I.6. FIN. FF. FE. FE.C. FH.C. FD.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM F FINISH FINISH FLOOR FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE HOSE FIRE HOSE CABINET FLOOR DRAIN	\$M. \$TRUC. \$1. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD. \$HTHG. T.B. TEL. T.V. T.C. T.W.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING T TACK BOARD TELEPHONE TELEVISION TOP OF CURB TOP OF WALL	THO I CHIDITOHI
EXP. EXP. JT. EXT. E.DF. EW.C. EX6T. OR EX. ELEC. EF.I.6. FIN. FF. FE. FE.C. FH. FH.C. FD. FL. TO FL.	EXPANSION EXPANSION JOINT EXTERIOR ELECTRIC DRINKING FOUNTAIN ELECTRIC WATER COOLER EXISTING ELECTRICAL EXTERIOR FINISH INSULATING SYSTEM F FINISH FINISH FLOOR FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE HOSE FIRE HOSE FIRE HOSE CABINET FLOOR TO FLOOR	\$M. \$TRUC. \$T. OR \$TL. \$CHD. \$ECT. \$H. \$HT. \$Q. \$TD. \$HTHG. T.B. TEL. T.V. T.C. T.W. T.K.	SOUTH SHEET METAL STRUCTURE OR STRUCTURAL STEEL SCHEDULE SECTION SHOWER SHEET SQUARE STANDARD SHEATHING T TACK BOARD TELEPHONE TELEVISION TOP OF CURB TOP OF WALL THICK	THO I CHIDITOHI
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ARCHITECTS

13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216 TEL: (210) 349-7950 FAX: (210) 366-0847

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PROJECT NO: 202270 DATE: **MAY 2023**

ABBREVIATIONS AND SYMBOLS

FOR



13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216 TEL: (210) 349-7950 FAX: (210) 366-0847

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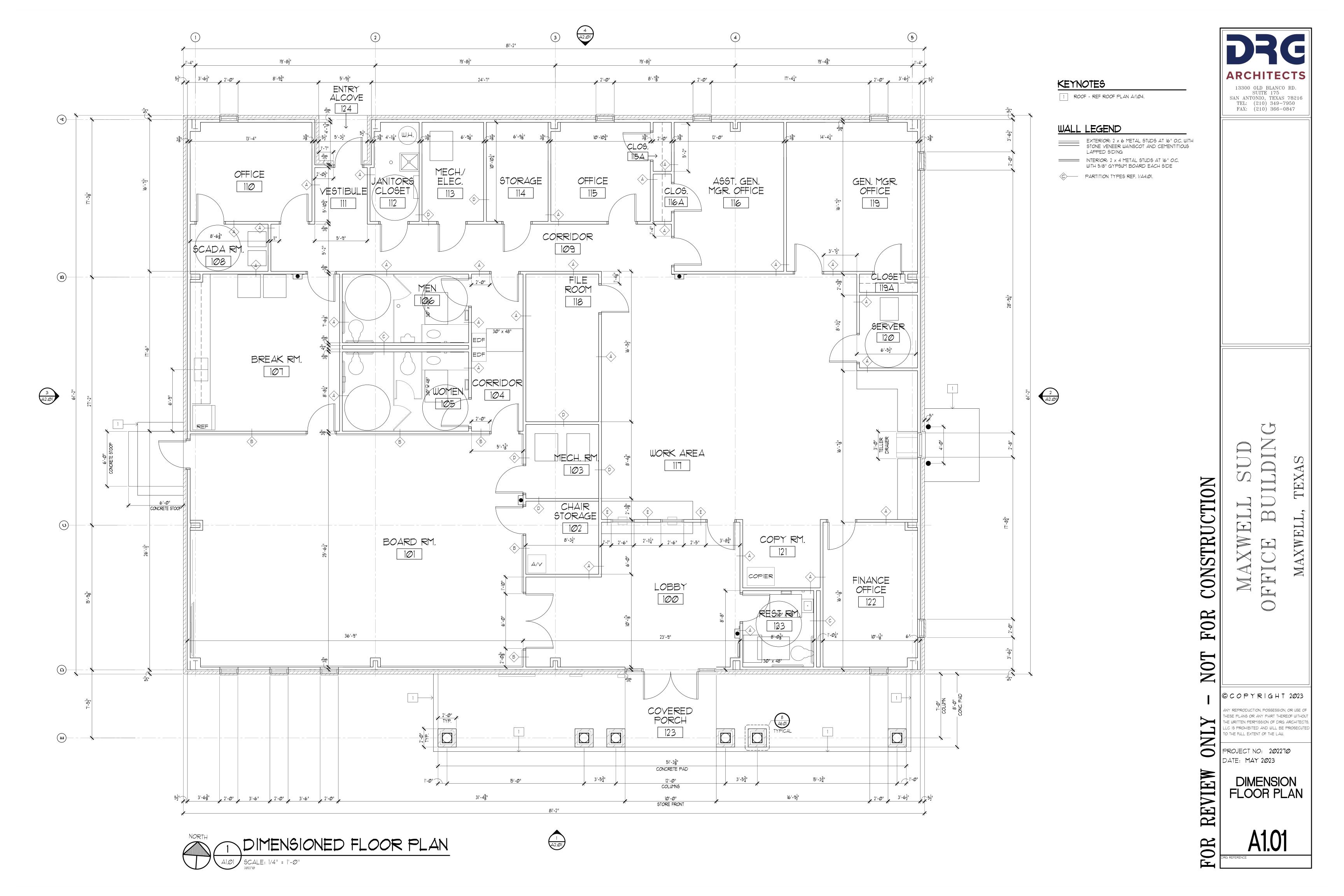
PROJECT NO: 202270 DATE: MAY 2023

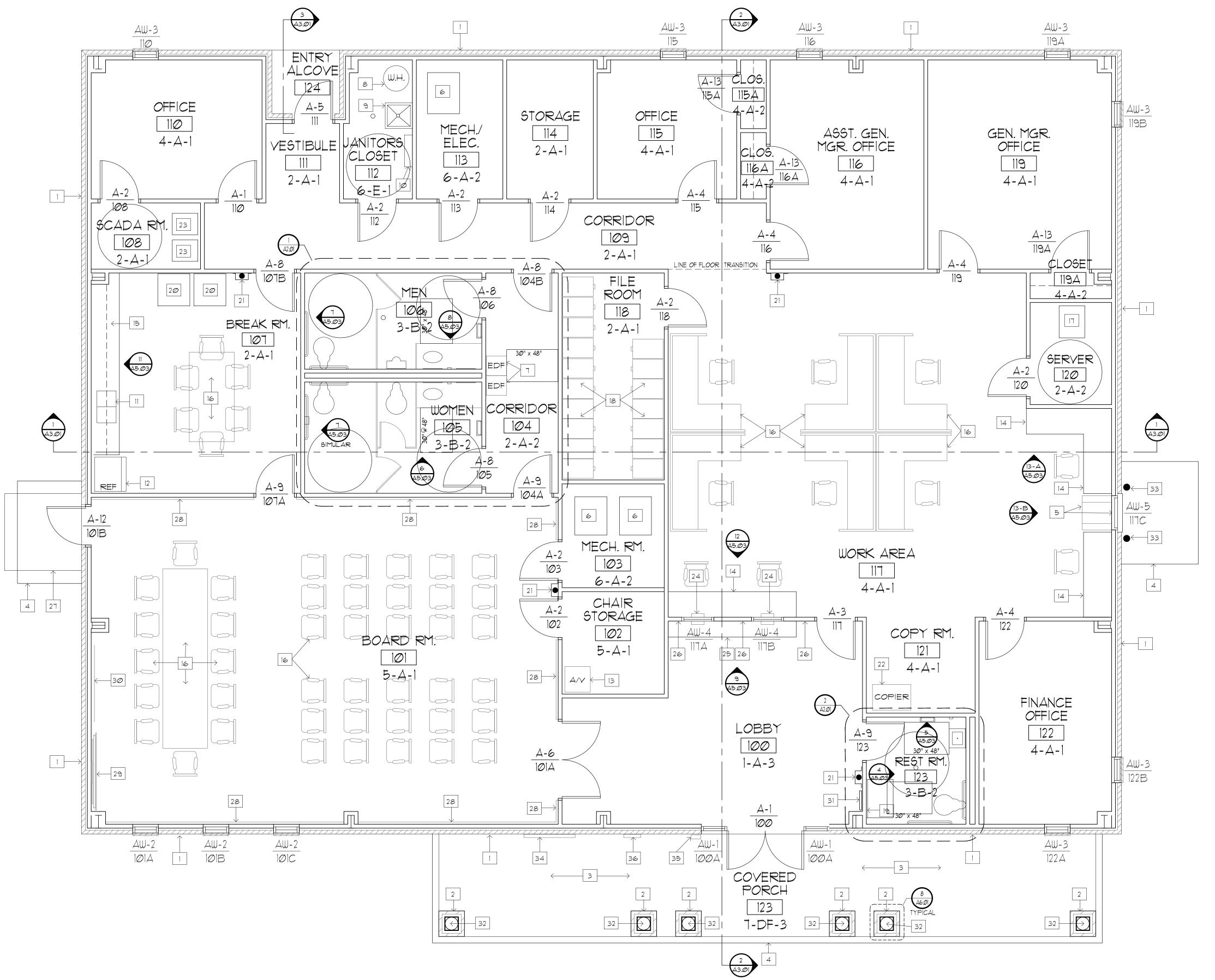
SITE PLAN

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REVIEW

FOR







ROOM FINISH KEY

OFFICE ROOM NAME

FLOOR / BASE

067 ROOM NUMBER

- 15T. NO. - FLOOR / BASE

1-A-2 ROOM MATERIAL CODE — 2ND NO. - WALLS / WAINSCOT - 3RD NO. - CEILING

E. FRP WALL PANELS F. METAL WALL PANELS

<u>CEILINGS</u> 1. $24" \times 24"$ ACOUSTICAL TILE IN METAL LAY-IN SUSPENSION SYSTEM.

A. 5/8" GYPSUM BOARD - PAINTED

C. ALUMINUM STOREFRONT - FACTORY FINISH

B. CERAMIC TILE UP TO CEILING

D. MASONRY - SEE ELEVATIONS

2. SUSPENDED 5/8" GYP BOARD - PAINTED. 3. METAL SOFFIT PANELS.

KEYNOTES

1 STONE VENEER AS SPEC.

2 STONE WRAPPED COLUMN AS SPEC.

LYT FLOORING / WOOD BASE

LYT FLOORING / VINYL BASE

CERAMIC TILE / CERAMIC TILE BASE

CARPET (PATTERN 1) / VINYL BASE

5. CARPET (PATTERN 2) / WOOD BASE

6. FLOOR SEALER / VINYL BASE7. STAINED CONCRETE

3 CONCRETE PORCH. SEE STRUCTURAL PLANS.

4 METAL ROOF AS SPEC - SEE ROOF PLAN A/1.04.

WINDOW UNIT WITH BULLET-RESISTANT GLAZING AND TRANSACTION DRAWER, AS SPEC.

6 MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS.

7 DRINKING FOUNTAINS AS SPEC.

8 WATERHEATER AS SPEC.

9 JANITORS SINK AS SPEC.

MOP RACK AS SPEC. 11 SINK AS SPEC.

12 REFRIDGERATOR BY OWENER.

13 AUDIO/VIDEO CABINET AS SPEC.

14 | SOLID SURFACE COUNTER AND BASE CABINETS.

15 | SOLID SURFACE COUNTER, BASE AND UPER CABINETS. SEE 9/A2.ØI.

16 SYSTEMS FURNITURE - BY OWNER

17 IT SYSTEM SERVER RACK - BY OWNER

18 FILE CABINETS - BY OWNER

19 BABY CHANGING STATION - KOALA KARE MODEL: KB200-01.

20 VENDING MACHINES - BY OTHERS

21 WALL MOUNTED FIRE EXTINGUISHER AND CABINET (4) TOTAL.

22 COPIER - BY OWNER

23 METAL RACK - BY OTHERS

24 WINDOW UNIT WITH BULLET RESISTANT GLAZING AND TRANSACTION TRAY.

25 SOLID SURFACE SERVICE COUNTER.

26 BULLET RESISTANT WALL MATERIAL INSTALLED BEHIND GYP BOARD IN PARTITION - FLOOR TO 6'-0" AFF.

27 CONCRETE STOOP - SEE STRUCTURAL

28 WOOD CHAIR RAIL - SEE 10/A5.03.

29 TELEVISION BY OWNER

 $\fbox{30}$ 6'-0" WIDE x 4'-0" HIGH MAGNETIC MARKER BOARD - REF. SPEC. SECTION 10000

31 FIRE ALARM CONTROL PANEL - SEE ELECTRICAL

WOOD COLUMN - SEE STRUCTURAL PLANS

33 STEEL BOLLARDS - SEE CIVIL PLANS

34 LOCKABLE DISPLAY CABINET - REF. SPEC. SECTION 10000

35 CARD READER - REF. ELECTRICAL DRAWINGS

36 BUILDING PLAQUE

ARCHITECTS 13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216 TEL: (210) 349-7950 FAX: (210) 366-0847

CONSTRUCTION FOR

TEXA

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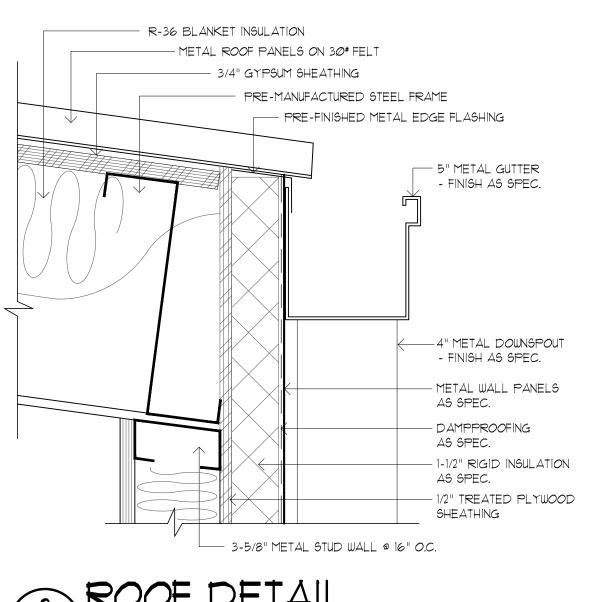
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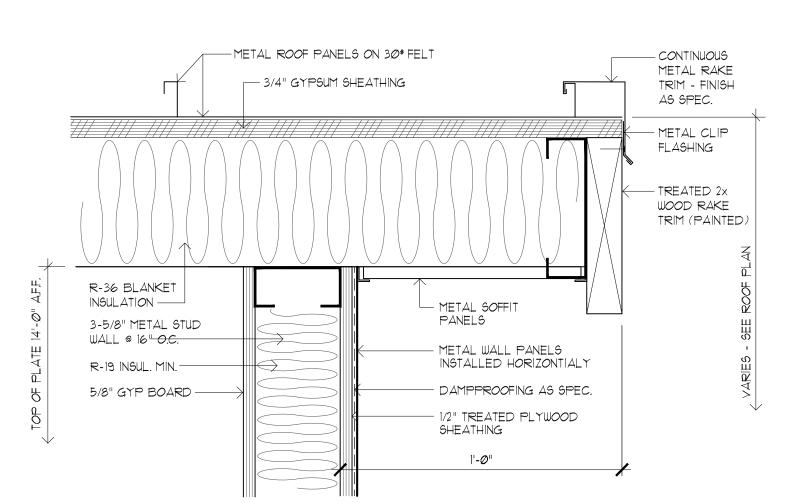
PROJECT NO: 202270 DATE: **MAY 2023**

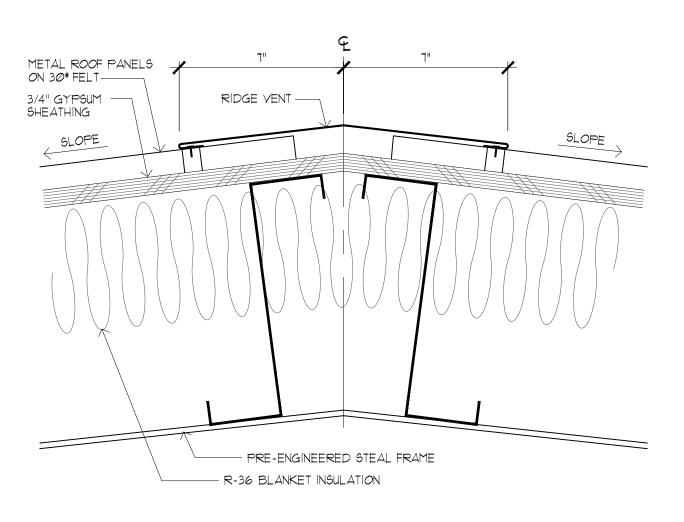
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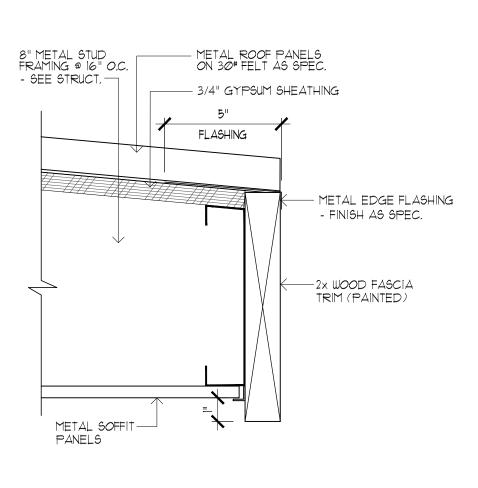
FOR

REFERENCE KEY FLOOR PLAN







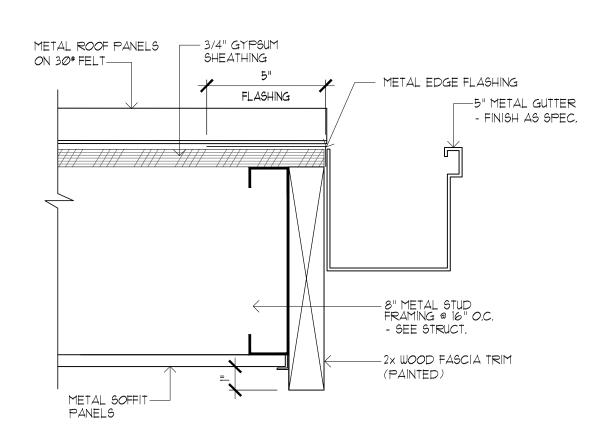


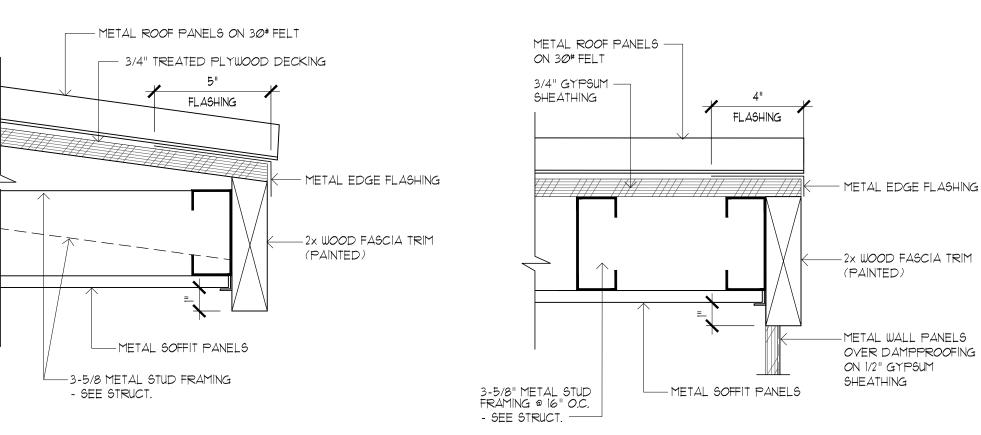














PRE FORMED METAL ROOF PANELS - REF. SPEC. SECTION Ø141Ø

- \mid 2 \mid CONTINUOUS METAL RIDGE CAP FINISH AS SPEC.
- 3 CONTINUOUS 5" METAL GUTTER FINISH AS SPEC.
- 4 WOOD RAKE (PAINTED) WITH METAL DRIP EDGE.
- | 5 | CONTINUOUS METAL VALLEY FLASHING FINISH AS SPEC.
- 6 WOOD LOW EAVE TRIM (PAINTED) WITH METAL DRIP EDGE.
- 7 EDGE OF BUILDING BELOW.
- 8 EDGE OF PORCH CONCRETE SLAB BELOW.
- 9 1x6 WOOD FASCIA (LOW) AND, 1x8 WOOD FASCIA (HIGH) PAINT.

GENERAL NOTES

. REFER TO SPECIFICATION SECTION 13122 FOR ROOF CURBS, ROOF CURBS (TO MATCH ROOFING PROFILE) ARE TO BE FURNISHED AND INSTALLED BY THE METAL ROOFING CONTRACTOR. THE MECHANICAL CONNECTIONS TO THE CURBS ARE TO BE BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR IS TO COORDINATE THE EXACT SIZE OF THE ROOF CURB SIZE WITH THE WOOD FRAMING CONTRACTOR.

2. ALL ROOF CURB LOCATIONS, SIZES AND QUANTITIES ARE TO BE COORDINATED WITH THE MECHANICAL PLANS.

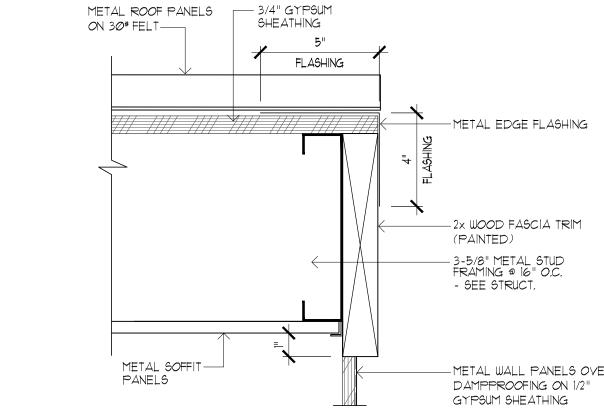
3. ALL ROOF JACKS AND ANY OTHER PENETRATIONS THROUGH THE ROOF ARE TO BE FURNISHED AND INSTALLED BY THE METAL ROOFING CONTRACTOR, LOCATIONS FOR THE PENETRATIONS ARE TO BE COORDINATED WITH THE VARIOUS TRADES. PENETRATIONS ARE TO BE LOCATED SO AS TO BE CENTERED IN THE ROOF PANEL AND NOT EXTEND ACROSS PANEL RIBS UNLESS FLASHING PENETRATIONS CONFORMING TO THE ROOF CONFIGURATIONS ARE UTILIZED.

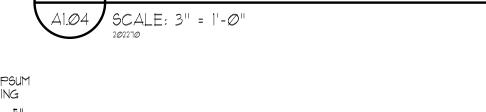














– 3-5/8" METAL STUD FRAMING @ 16" O.C. - SEE STRUCT.

ON 1/2" GYPSUM

-8" METAL STUD FRAMING @ 16" O.C.

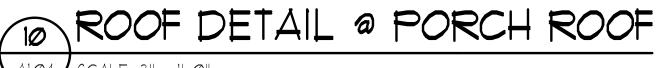
-2x WOOD FASCIA TRIM

(PAINTED)

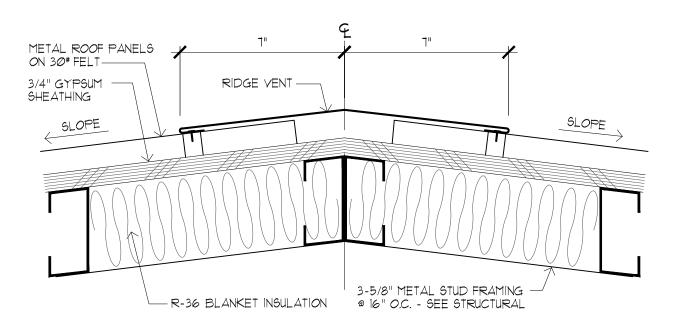
- SEE STRUCT.

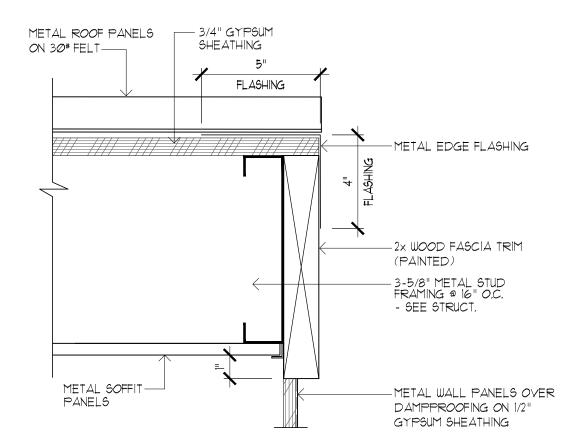
- METAL WALL PANELS OVER DAMPPROOFING

SHEATHING ON 3-5/8" METAL STUDS @ 16" O.C.

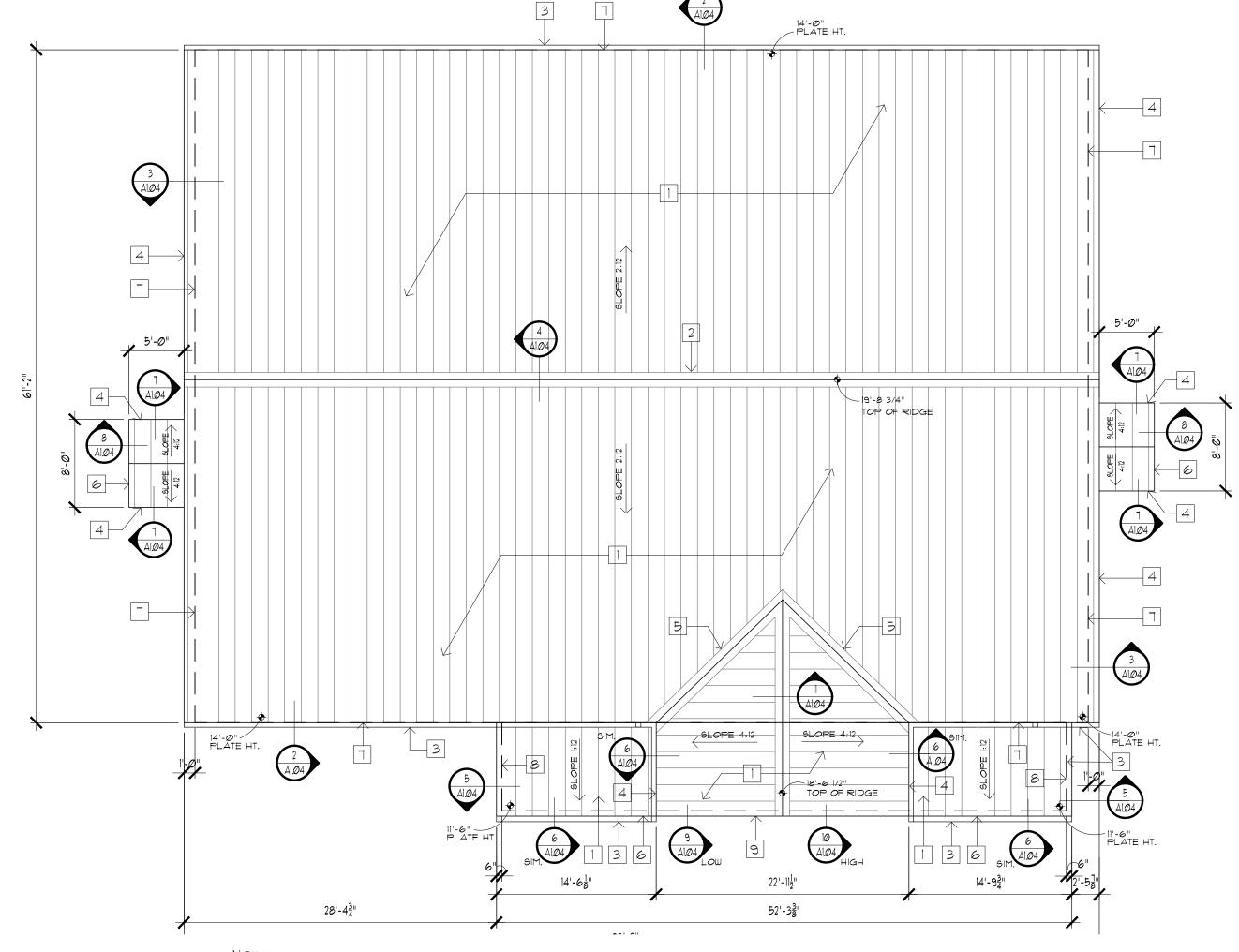


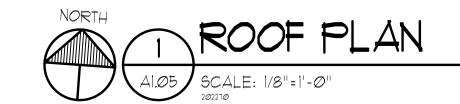












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ROOF RIDGE DETAIL

METAL SOFFIT—— PANELS

ARCHITECTS

13300 OLD BLANCO RD. SUITE 175

SAN ANTONIO, TEXAS 78216 TEL: (210) 349-7950

FAX: (210) 366-0847

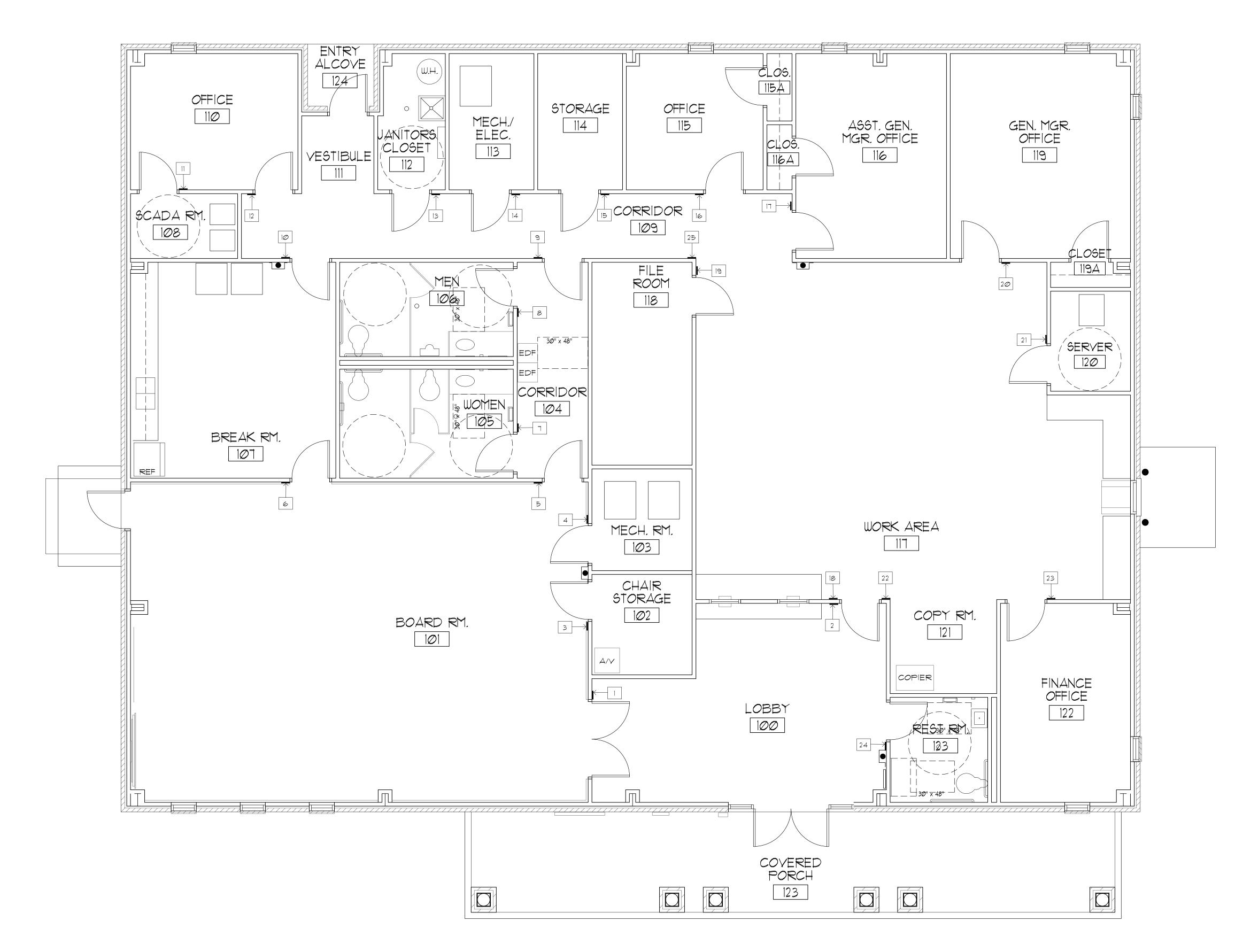
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PROJECT NO: 202270 DATE: MAY 2023

ROOF PLAN AND DETAILS

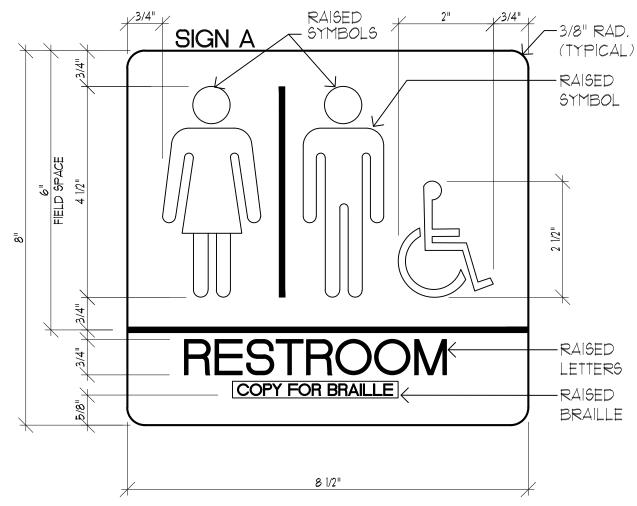
A1.04





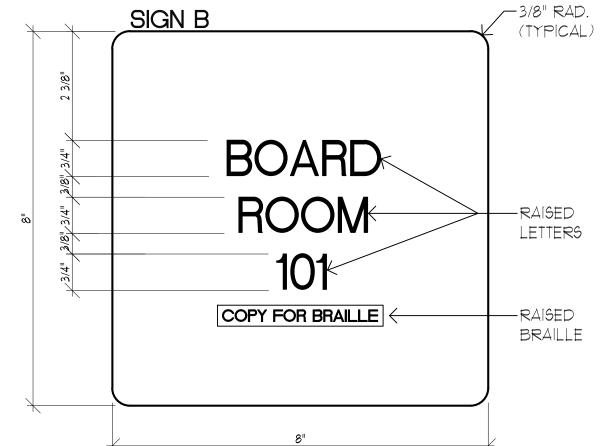
NO.	LOCATION	SIGN TYPE	TEXT/CHARACTERS	REMARKS
1	LOBBY 100	В	BOARD ROOM 101	Center Text
2	LOBBY 100	В	WORK AREA 117	Center Text
3	BOARD ROOM 101	В	CHAIR STORAGE 102	Center Text
4	BOARD ROOM 101	В	MECHANICAL 103	Center Text
5	BOARD ROOM 101	В	RESTROOMS 104	Center Text
6	BOARD ROOM 101	В	BREAK ROOM 107	Center Text
7	CORRIDOR 104	В	WOMEN 105	Center Text
8	CORRIDOR 104	В	MEN 106	Center Text
9	CORRIDOR 109	В	RESTROOMS 104	Center Text
10	CORRIDOR 109	В	BREAK ROOMS 107	Center Text
11	OFFICE 110	В	SCADA 108	Center Text
12	CORRIDOR 109	В	OFFICE 110	Center Text
13	CORRIDOR 109	В	JANITORS 112	Center Text
14	CORRIDOR 109	В	MECHANICL / ELCTRICAL 113	Center Text
15	CORRIDOR 109	В	STORAGE 114	Center Text
16	CORRIDOR 109	В	OFFICE 115	Center Text
17	CORRIDOR 109	В	ASSISTANT GENERAL MANAGER 116	Center Text
18	WORK AREA 117	В	LOBBY 100	Center Text
19	WORK AREA 117	В	FILE ROOM 118	Center Text
20	WORK AREA 117	В	GENERAL MANAGER 119	Center Text
21	WORK AREA 117	В	SERVER 119	Center Text
22	WORK AREA 117	В	COPY ROOM 121	Center Text
23	WORK AREA 117	В	FINANCE 122	Center Text
24	LOBBY 100	A	RESTROOM 123	Center Text
25	CORRIDOR 109	В	WORK AREA 117	Center Text





NOTE: COLORS, BLUE BACKGROUND WITH WHITE LETTERS AND SYMBOLS.





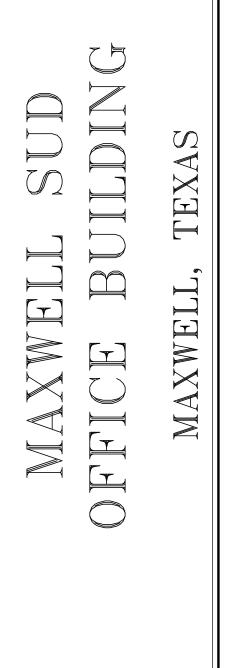
NOTE: COLORS AS SELECTED BY OWNER.

ROOM SIGNAGE DETAIL SGI.01 SCALE: 6" = 1'-0"

NOTES:

- 1. SIGN MOUNTING HEIGHT IS 48" ABOVE FINISHED FLOOR, MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" MAX. ABOVE FINISHED FLOOR, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. LOCATE SIGNS WITH A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON TACTILE CHARACTERS, BEYOND THE LATCH SIDE OF ANY DOOR SWING AS REQUIRED BY TAS STANDARDS.
- 2. SIGNAGE LETTERS, BRAILLE AND RAISED CHARACTERS SHALL COMPLY WITH TAS STANDARDS.





CONSTRUCTION

FOR

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0

REVIEW

FOR

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PROJECT NO: 202270

DATE: MAY 2023

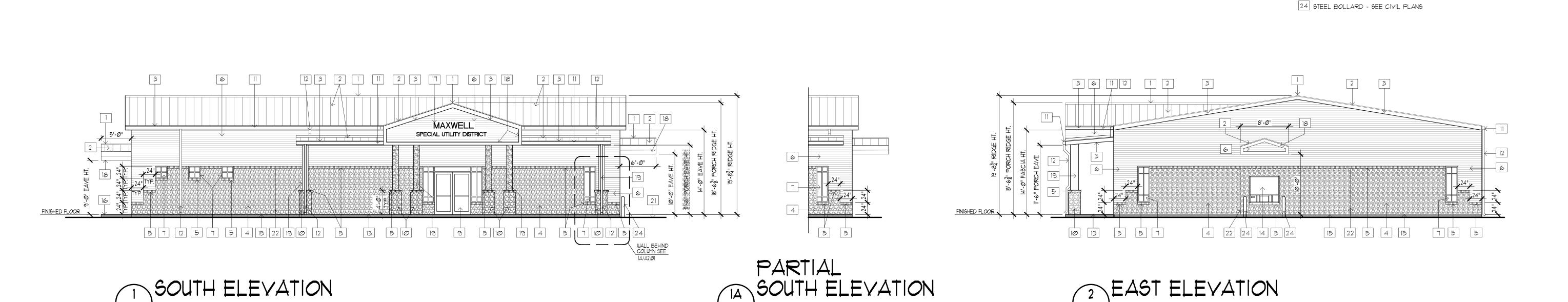
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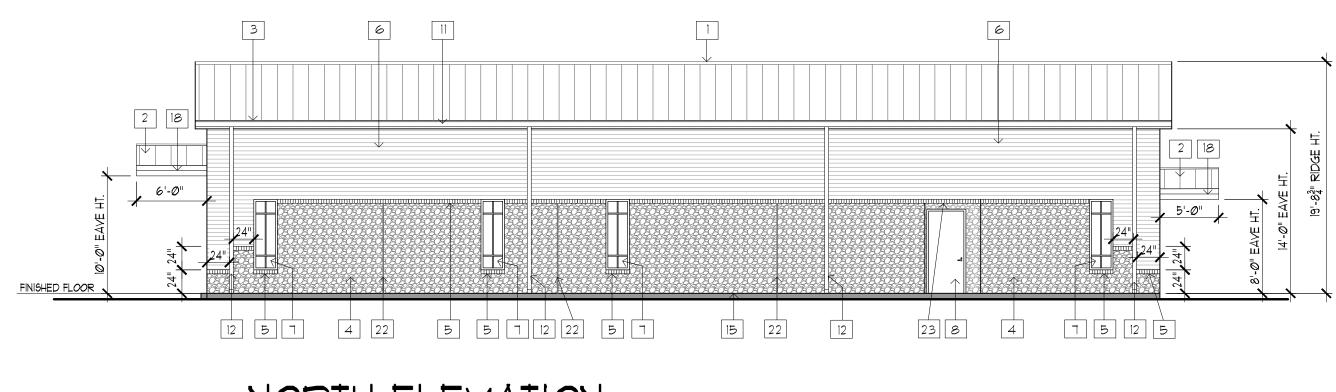
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ROOM SIGNAGE FLOOR PLAN

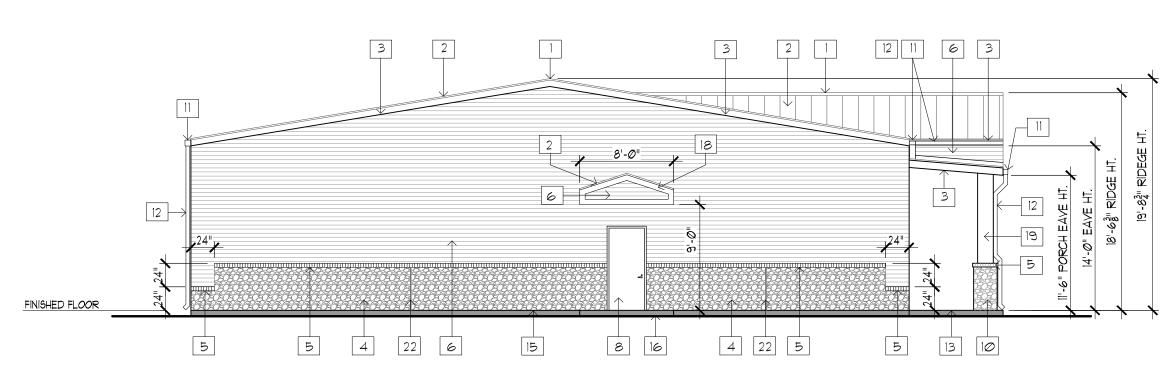
SG1.01

SURED TO 0" MAX. DF THE R FLOOR RACTERS, ED BY TAS











KEYNOTES

4 STONE VENEER

7 ALUMINUM WINDOW AS SPEC.

10 STONE VENEER COLUMN

11 5" METAL GUTTER - FINISH AS SPEC.

12 4" METAL DOWNSPOUT - FINISH AS SPEC.

1 CONTINUOUS METAL RIDGE CAP - FINISH AS SPEC.

5 | FACE BRICK ROW LOCK ACCENT COURSE - TYPICAL

6 HORIZONTAL METAL WALL PANELS - FINISH AS SPEC.

3 2x8 WOOD FASCIA TRIM - PAINT AS SPEC.

2 METAL ROOF PANELS AS SPEC. ON 30# FELT ON 34" PLYWOOD PLYWOOD ON PRE-ENGINEERED STEEL ROOF TRUSSES

8 HOLLOW METAL DOOR AND FRAME AS SCHEDULED (PAINTED).

9 ALUMINUM STOREFRONT DOORS AND WINDOWS AS SCHEDULED

13 CONC. PORCH - REF. STRUCT. DRAWINGS

15 FINISHED FLOOR - REF. STRUCT. DRAWINGS

18 2x6 WOOD FACIA TRIM - PAINT AS SPEC.

19 12" DIA. WOOD COLUMN - PAINT AS SPEC.

23 STEEL LINTLE - SEE STRUCTURAL PLANS

22 EXPANSION JOINT AS SPEC.

20 CONCRETE SIDEWALK - SEE CIVIL DRAWINGSS

16 CONCRETE STOOP - REF., STRUCTURAL DRAWGINS

14 PRE-MANUFACTURED WINDOW UNIT WITH BULLET-RESISTANT GLAZING AND TRANSACTION DRAWER

METAL LETTERS:

"MAXWELL" LETTERS TO BE 12" TALL LETTERS.

"SPECIAL UTILITY DISTRICT" LETTERS TO BE 8" TALL LETTERS.

21 ASPHALT PAVEMENT AT DRIVE THRU - SEE CIVIL DRAWINGS.

DRG

13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

NOT FOR CONSTRUCTION MAXWELL SUD

TEXA

MAXWELL

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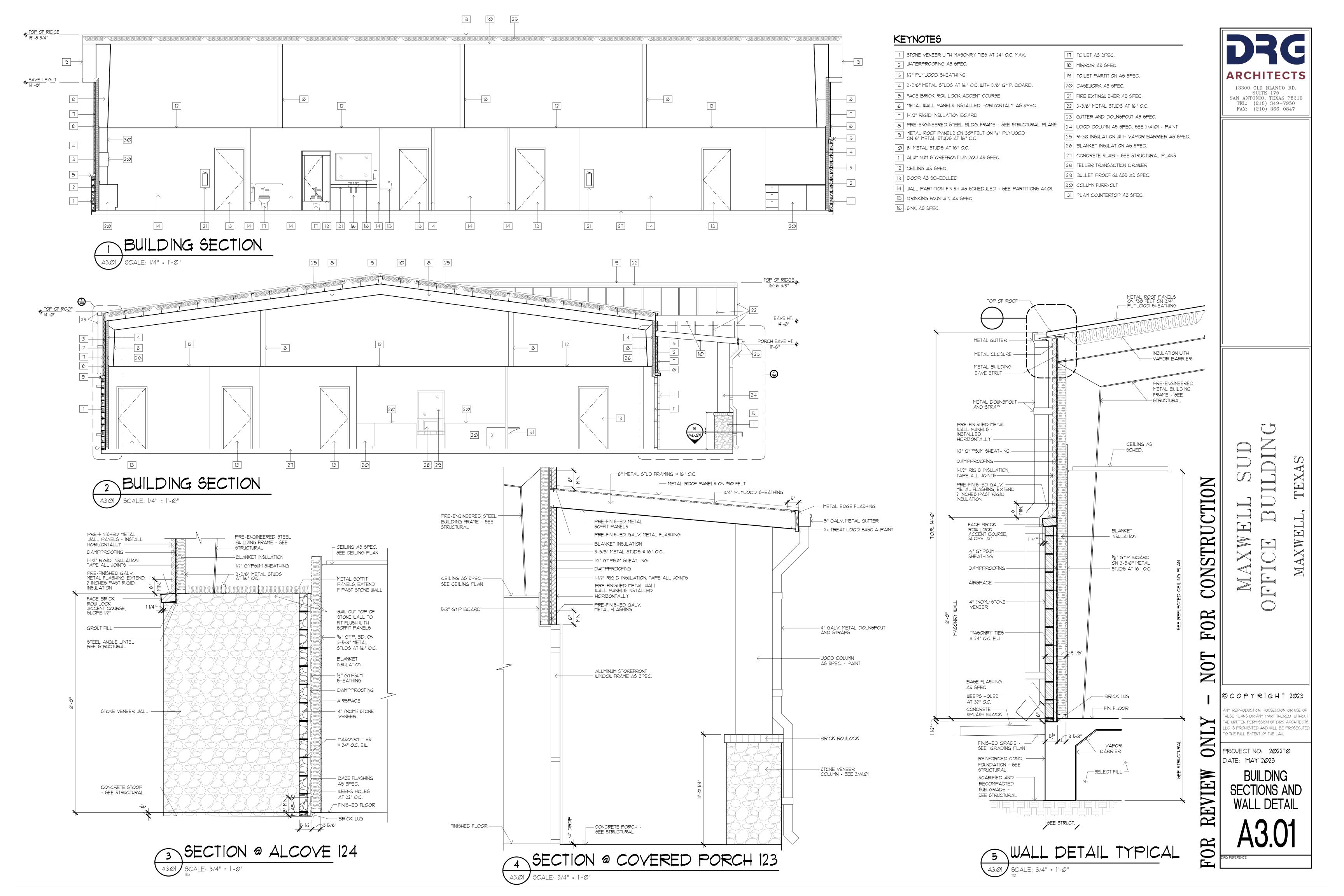
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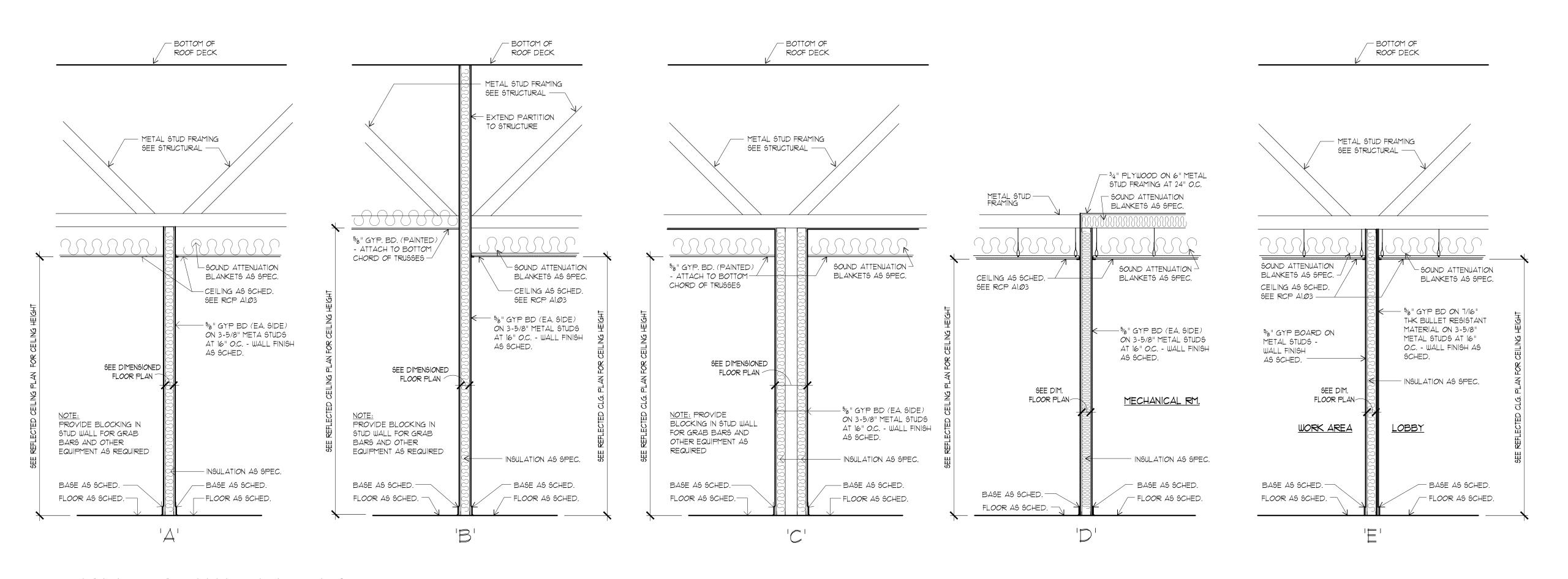
REVIEW

FOR

EXTERIOR ELEVATIONS

A2.01





WALL PARTITION TYPES

SCALE: 1/2" = 1'-0"

- NOT FOR CONSTRUCTION

MAXWELL SUD

OFFICE BUILDING

MAXWELL, TEXAS

ARCHITECTS

13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216

TEL: (210) 349-7950 FAX: (210) 366-0847

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FOR

A4.01

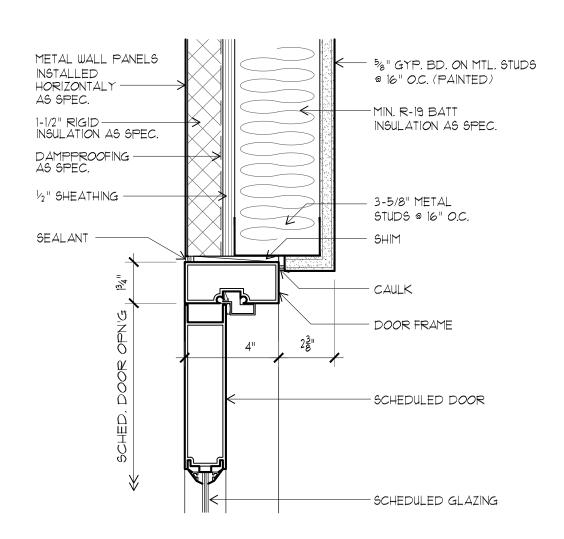
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INTERIOR PARTITION TYPES

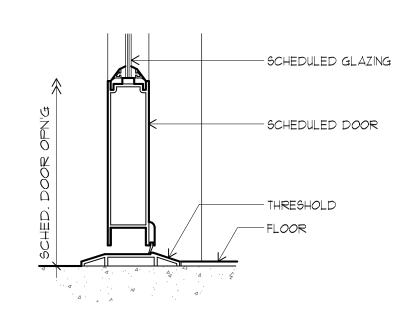
DATE: **MAY 2023**





1/2" SHEATHING DAMPPROOFING -— %" GYP. BD. ON MTL. STUDS a 16" O.C. (PAINTED) — MIN. R-19 BATT I" AIR SPACE -INSULATION AS SPEC. ADHERED MANUFACTURED — 3-5/8" METAL STUDS @ 16" O.C. STONE VENEER ----SEALANT -- DOOR FRAME SCHEDULED DOOR SCHEDULED GLAZING

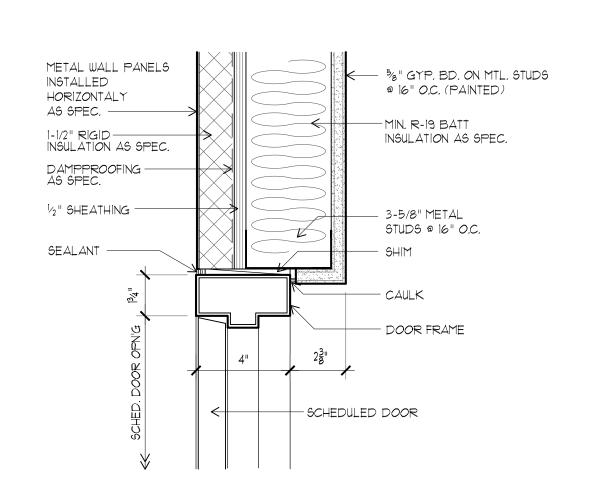




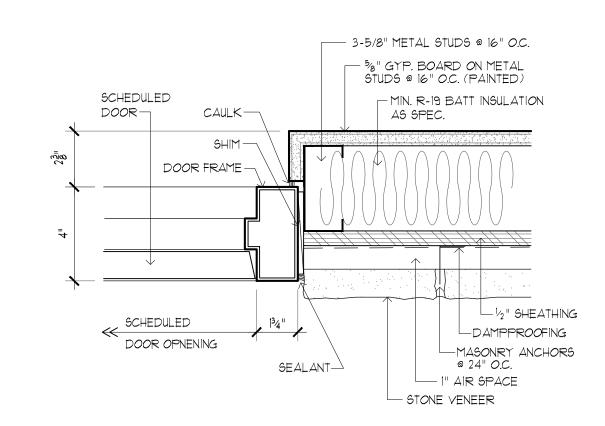


DOOR SCHEDULE

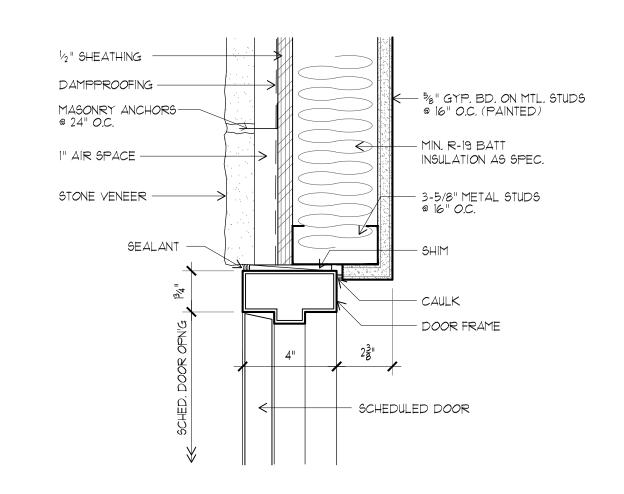
DOOR			DOOR	FRAME	FIRE	FRAME DETAILS			REMARKS	HARDWARE SET
TYPE	ELEV.	(WIDTHXHEIGHT)	MATERIAL	MATERIAL	RATING	HEAD	JAMB	SILL		
A-1	Д	PR 3'-0"x7'-0"	ALUMINUM	ALUMINUM		1/45.01	2/A5.Ø1	3/A5.Ø1	1, 2	1
A-2	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL	20-MIN.	7/45.01	7/45.01			2
A-3	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		4/45.01	5/A5.Ø1		2	3
A-4	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		7/45.01	7/45.01			4
A-5	С	3'-Ø"x7'-Ø"	HOLLOW METAL	HOLLOW METAL		6/45.01	6/45.01		2	5
A-6	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		7/45.01	7/45.01			6
A-7	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		7/45.01	7/45.01			7
A-8	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		7/45.01	7/45.01			8
A-9	D	3'-Ø"x7'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		7/45.01	7/45.01			9
A = 12	В	3'-Ø"xT'-Ø"	HOLLOW METAL	HOLLOW METAL	= = =	4/45.01	4 \$ 5/45.01			11
A-13	D	3'-Ø"xT'-Ø"	PLAS. LAM. WOOD	HOLLOW METAL		7/45.01	7/45.01			12



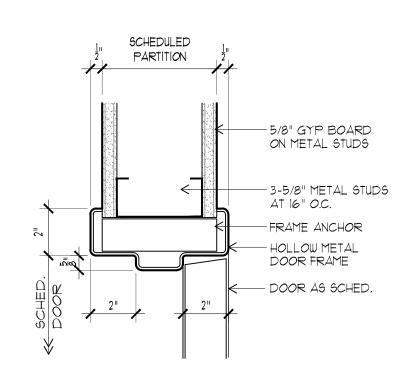














REMARKS

1. SEE DOOR ELEVATION FOR GLAZING. 2. PROVIDE ELECTRICAL STRIKE.

GENERAL NOTES

1. SEE REFERENCE FLOOR PLAN A1.02 FOR DOOR QUANTITY. THIS SCHEDULE DEFINES DOOR TYPES, NOT INDIVIDUAL DOORS. EACH DOOR SHOWN IS SEPARATELY IDENTIFIED BY AN OPENING NUMBER UNDER THE DOOR TYPE AS SHOWN ON THE PLAN.

2. ALL EXTERIOR DOORS HAVE WEATHER-STRIPPING, SWEEPS AND THRESHOLDS. 3. ALL SWINGING DOORS ARE 13/4" THICK UNLESS NOTED OTHERWISE.

4. SEE WINDOW FRAME ELEVATIONS FOR ADDITIONAL INFORMATION AT ALUMINUM DOORS.

HARDWARE SCHEDULE

SET NO. 1: 3 PR BUTTS (ONE ELEC. HINGE), RIM CYLINDER (WITH DEADBOLT), CLOSERS, THRESHOLD,

PANIC DEVICE (WITH ELECTRIC LATCH RETRACTION), WEATHER-STRIPPING. SET NO. 2: 1/2 PR BUTTS, STOREROOM LOCK SET, CLOSER, SWEEP, WALL STOP

SET NO. 3: 1/2 PR BUTTS (ONE ELEC. HINGE), STOREROOM LOCKSET (WITH ELECTRIC LOCKING/UNLOCKING.), CLOSER, WALL STOP

SET NO. 4: 11/2 PR BUTTS, OFFICE LOCK SET, WALL STOP.

SET NO. 5: 1/2 PR BUTTS (ONE ELEC. HINGE), RIM CYLINDER, CLOSER, THRESHOLD, PANIC DEVICE (WITH ELECTRIC LATCH RETRACTION), WEATHER-STRIPPING.

SET NO. 6: 3 PR BUTTS, CLASSROOM LOCK SET, CLOSERS, HEAD & FOOT BOLTS AT INACTIVE LEAF, WALL STOP

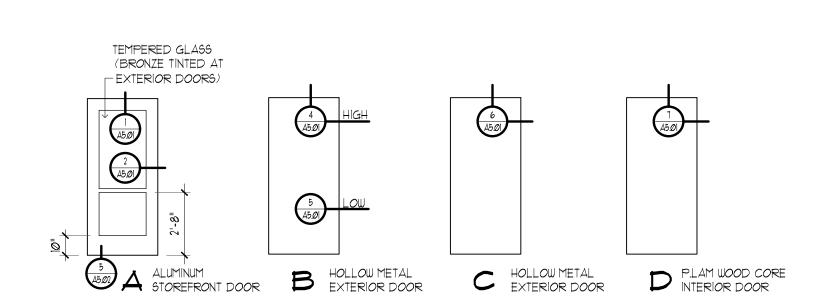
SET NO. 7: 1/2 PR BUTTS, OFFICE LOCK SET, PANIC DEVICE, WALL STOP. SET NO. 8: 11/2 PR BUTTS, PASSAGE SET, CLOSER, SWEEP, KICKPPLATE, WALL STOP.

SET NO. 9: 1/2 PR BUTTS, CLASSROOM LOCK SET, CLOSER, WALL STOP

SET NO. $10: 1\frac{1}{2}$ PR BUTTS (ONE ELEC. HINGE), STOREROOM LOCKSET (WITH ELECTRIC LOCKING/UNLOCKING), CLOSER, PANIC DEVICE (WITH ELECTRIC LATCH RETRACTION), WALL STOP.

SET NO. 11: 11/2 PR BUTTS, OFFICE LOCK SET, CLOSER, PANIC DEVICE, THRESHOLD, WEATHER-STRIPPING

SET NO. 12: 11/2 PR BUTTS, PASSAGE SET, WALL STOP.



8 DOOR TYPES A5.01 SCALE: 1/4" = 1'-0"

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PROJECT NO: 202270 DATE: **MAY 2023**

> DOOR SCHEDULE AND DETAILS

CONSTRUCTION

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MAXWELL,

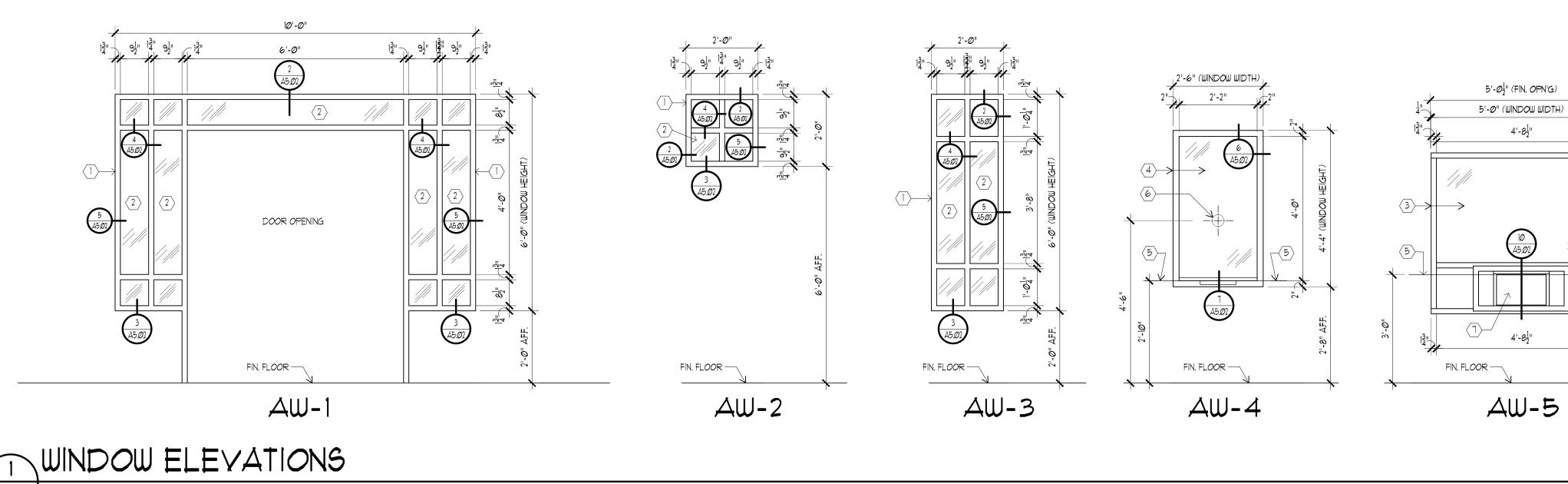
ARCHITECTS

13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216

TEL: (210) 349-7950 FAX: (210) 366-0847

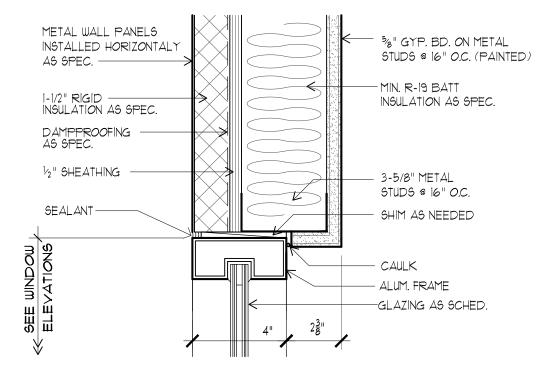
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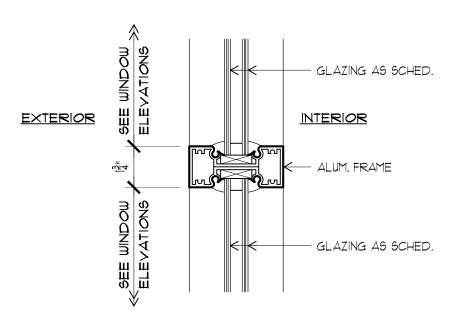
FOR



WINDOW KEYNOTES

- (1) ALUMINUM FRAME.
- TEMPERED GLASS (BRONZE TINTED).
- PRE-MANUFACTURED WINDOW UNIT WITH BULLET-RESISTANT GLAZING AND TRANSACTION DRAWER AND DROP SLOT
- PRE-MANUFACTURED WINDOW UNIT WITH BULLET-RESISTANT GLAZING, PAPER PASS AND SPEAKING DEVICE
- 5 LINE OF TOP OF COUNTER
- 6 SPEAKING DEVICE AS SPEC.
- 1 TRANSACTION DRAWER, ALIGH WITH TOP OF COUNTER





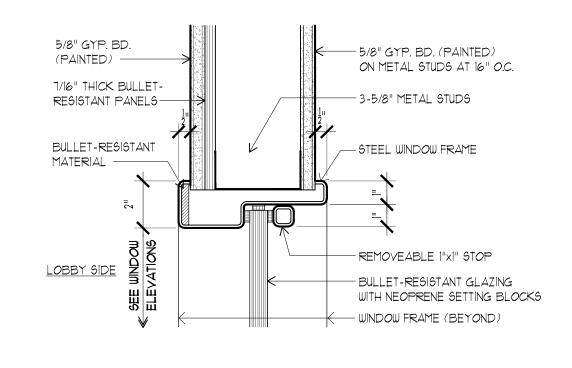
— 5/8" GYP. BD. (PAINTED) ON 2x6 STUDS @ 16" O.C.

└─1/2" SHEATHING

a 24" O.C.

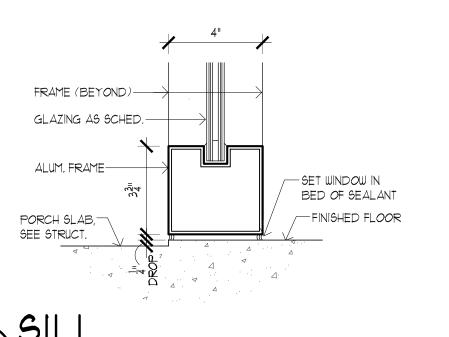
----- I" AIR SPACE

--- MASONRY ANCHORS

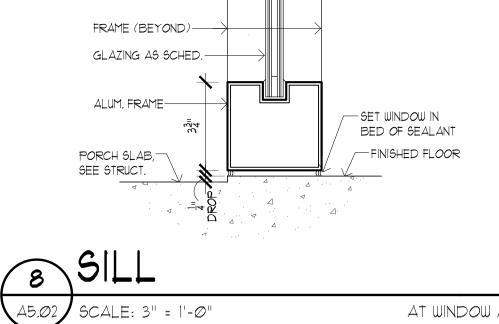


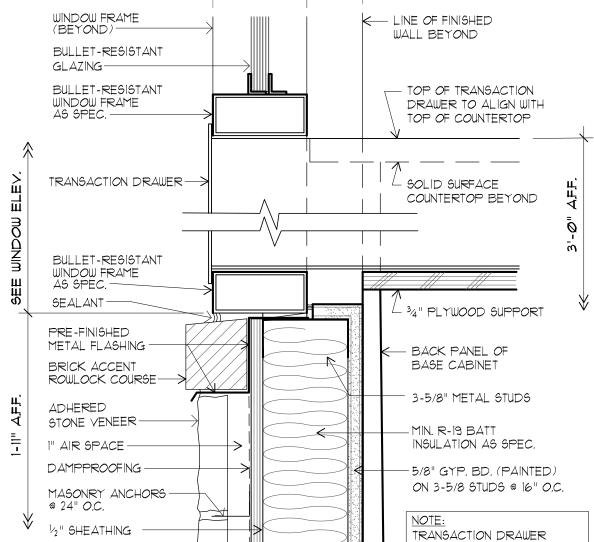
HEAD (JAMB SIMILAR)

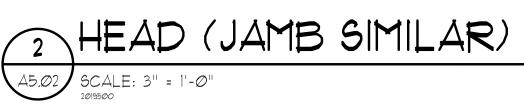
AT WINDOW AW-4



AT WINDOW AW-1









3-5/8" METAL STUDS —

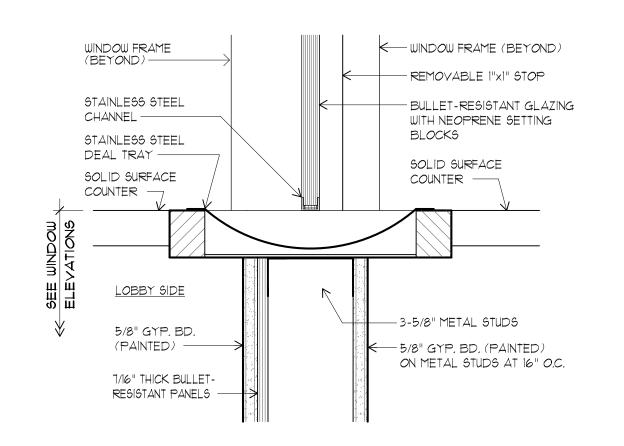
CAULK —

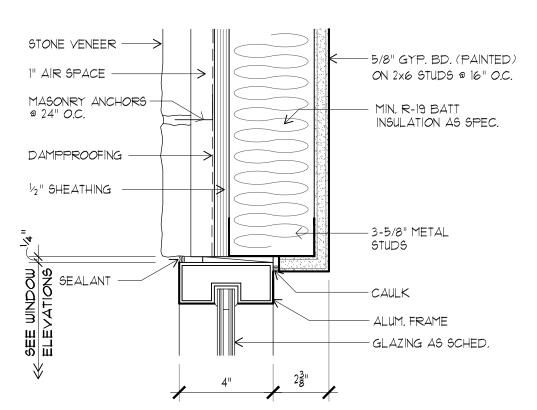
SEALANT-

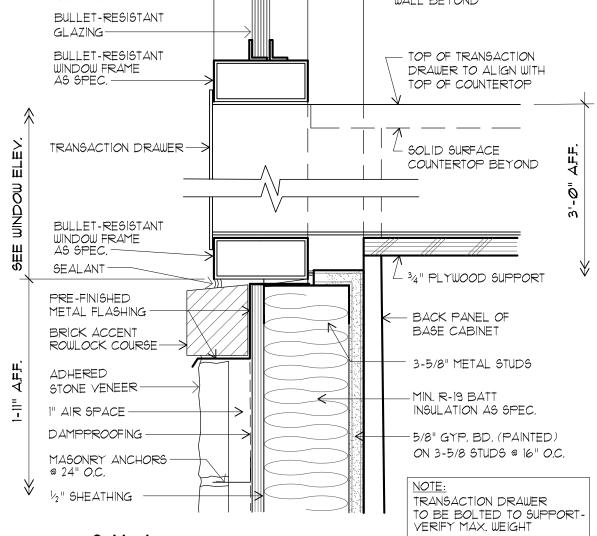
1/4"

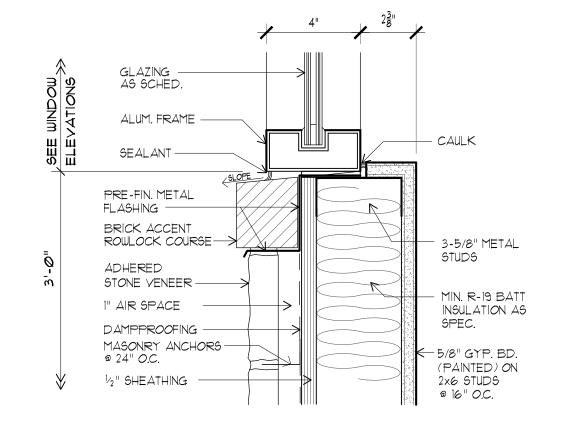
ALUM. FRAME —

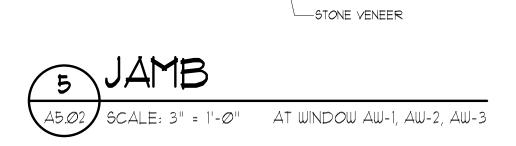
GLAZING AS SCHED.

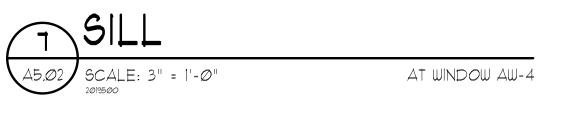
















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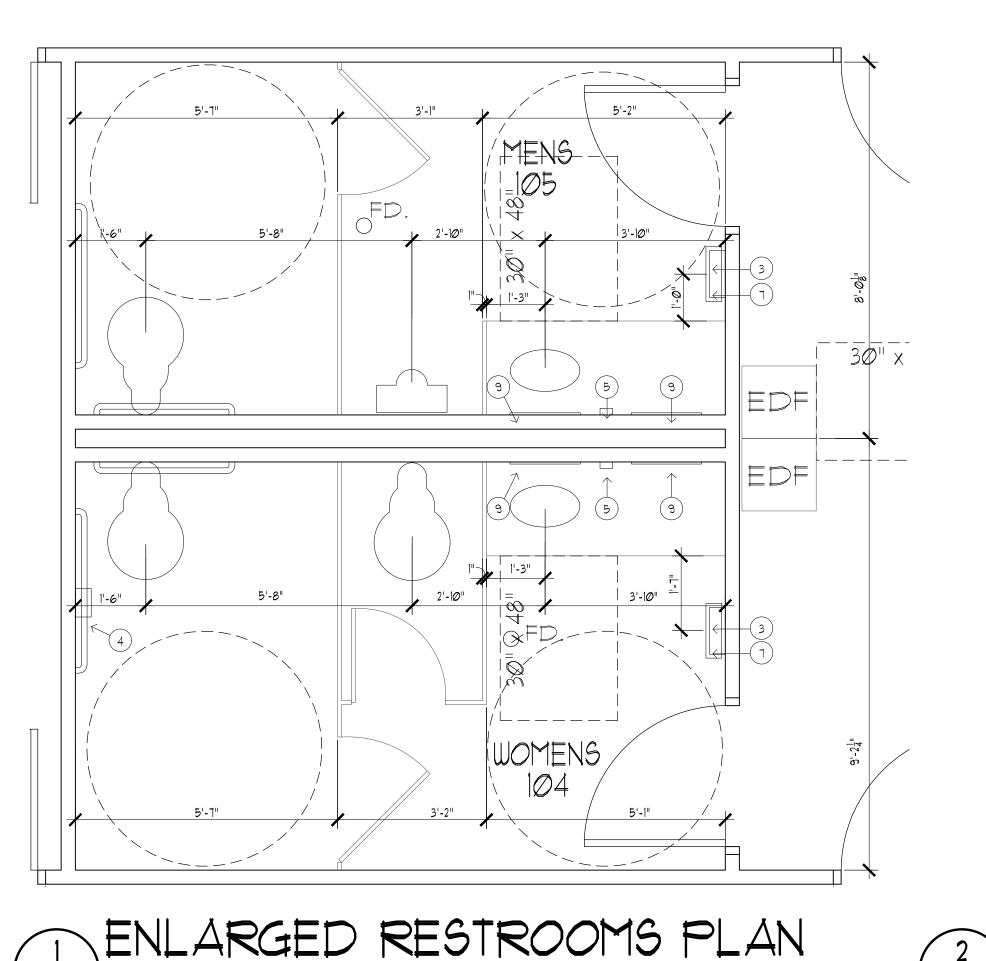
ARCHITECTS

13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216

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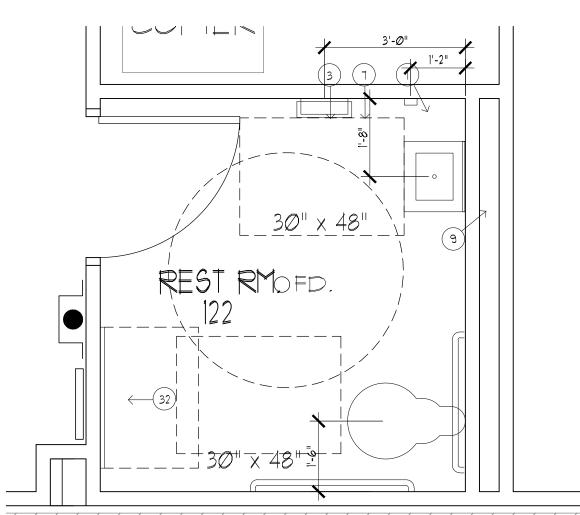
PROJECT NO: 202270 DATE: MAY 2023

ARCHITECTURAL WINDOW ELEVATIONS AND DETAILS



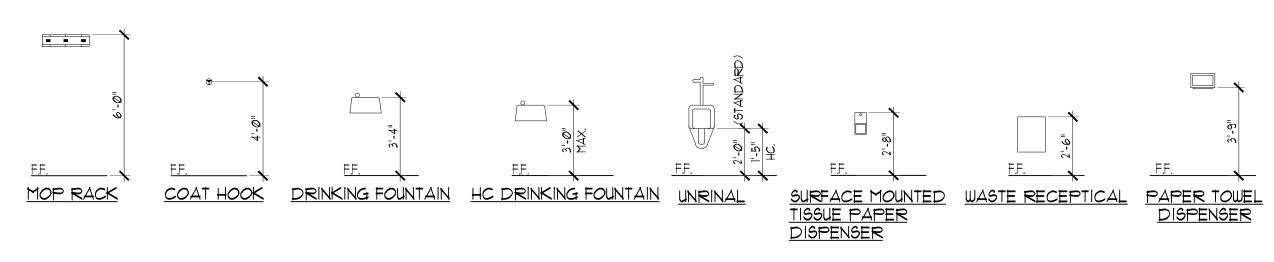
SEE FIXTURE MOUNTING HEIGHTS

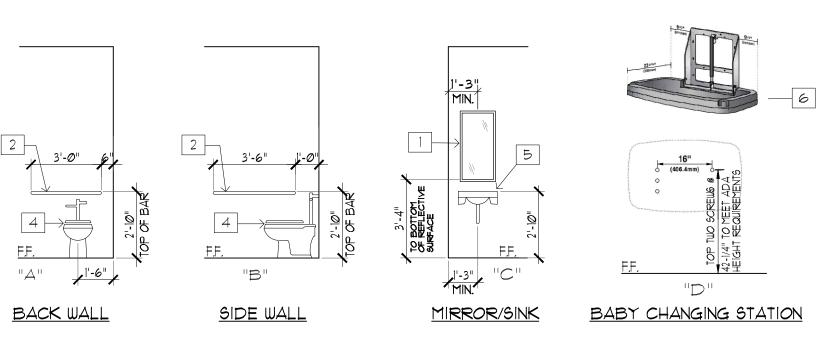
FOR MOUNTING REQUIREMENTS



ENLARGED RESTROOM PLAN

SCALE: 1/2" = 1'-0"







MOUNT AT 3'-4" A.F.F. TO BOTTOM OF REFLECTIVE EDGE.ASI MODEL TYPE Ø1: 36" LONG AT BACK WALL WHEELCHAIR TOILET 42" LONG AT SIDE WALL COMPARTMENT, MOUNT

TOP AT 2'-10" A.F.F. JANITOR'S MOP AND BROOMBOBRICK MODEL RACK WITH SHELF B-224×36"

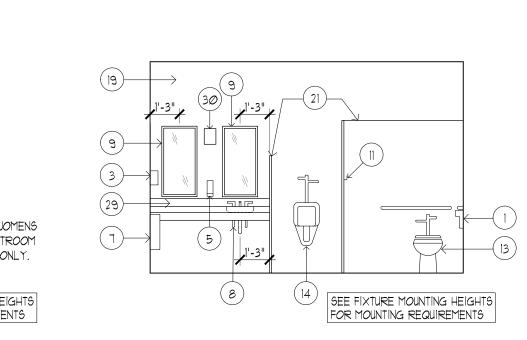
4 TOILET AS SPEC....SEE PLUMBING PLANS 5 LAVATORY AS SPECSEE PLUMBING PLANS

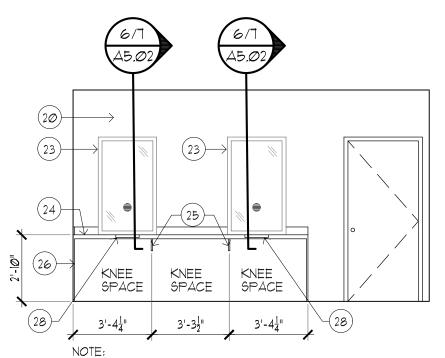
...BOBRICK MODEL KB200-00

FIXTURE MOUNTING HEIGHTS A2.01 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- 1. ALL FLUSH VALVE CONTROLS AT H.C. ACCESSIBLE TOILETS ARE TO BE ON OPEN SIDE OF TOILET - NOT ON WALL SIDE
- 2. PROVIDE FIRE RATED SOLID WOOD BLOCKING IN WALLS (MIN. 2x8) TO ADEQUATELY SUPPORT ALL WALL MOUNTED ACCESSORIES OR EQUIPMENT. ALL BLOCKING TO MEET CODE LOADING REQUIREMENTS OF EQUIPMENT SUPPORTED.
- 3. MOUNT ALL COAT HOOKS ON INTERIOR ROOM SIDE OF DOOR.
- 4. FIELD VERIFY CHAIR RAIL LOCATIONS AND LENGTH.





LOBBY SIDE OF WALL - REF. PARTITION TYPE "G" ON 1/44.01 (CUT PANELS AROUND WINDOWS, OUTLETS, ETC.)

... BOBRICK MODEL B-2888

. ASI MODEL TYPE Ø1: 36" LONG AT WET WALL

42" LONG AT SIDE WALL

....BOBRICK MODEL B-2111

....BOBRICK MODEL B-211

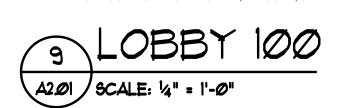
....SEE PLUMBING PLANS

....SEE PLUMBING PLANS

...SEE PLUMBING PLANS

....SEE SPECIFICATIONS

....SEE SPECIFICATIONS



ELEVATION KEYNOTES

(3) SURFACE MOUNTED PAPER......BOBRICK MODEL B-262

SURFACE MOUNTED SANITARY.....BOBRICK MODEL B-270 NAPKIN DISPOSAL

7) SURFACE MOUNTED WASTE BOBRICK MODEL B-367-60

 $(oldsymbol{s})$ hot water pipe insulation................. SEE SPECIFICATIONS

(1) SURFACE MOUNTED.

(2) GRAB BAR - TWO WALL.

TOP AT 2'-10" A.F.F.

TOWEL DISPENSER.

 $(\,$ 5 $\,)$ SOAP DISPENSER...

RECEPTACLE

6 PRE FINISHED PLAS. LAM....... COUNTERTOP, BACKSPLASH

(9) 18"Wx36"H STAINLESS STEEL......

CHANNEL FRAME MIRROR

OF REFLECTIVE EDGE)

(HI-LO FOR HANDICAP

ACCESSIBILITY)

INSIDE OF DOOR

(14) SINK AND FAUCUET

(MOUNT 3'-4" A.F.F. TO BOTTOM

WHEELCHAIR TOILET COMPARTMENT -MOUNT

TOILET TISSUE DISPENSER

CHAIR RAIL ON THREE WALLS ONLY. SEE FLOOR PLAN FOR LOCATIONS, FIELD VERIFY ALL LENGTHS. TYPICAL BOARD

ROOM 101 ELEV.

A2.01 SCALE: 14" = 1'-0"

(16) CASE WORKS	BEE SPECIFICATIONS
17 FILLER PANEL S	BEE SPECIFICATIONS
(18) BASE AS SPEC	BEE SPECIFICATIONS
(19) CERAMIC WALL TILE	BEE SPECIFICATIONS
20 WALL, FINISH AS SPECS	BEE SPECIFICATIONS
21) TOILET PARTITIONS	BEE SPECIFICATIONS
22) REFRIDGERATOR BY OWNER	
(23) 30"x 50" TRANSACTION WINDOWS WITH SPEAKING DEVICE	BEE SPECIFICATIONS
24) SOLID SURFACE COUNTERTOPS AND 4" BACKSPLASH	BEE SPECIFICATIONS
25) PLAM COUNTERTOP SUPPORTSS	SEE SPECIFICATIONS
26 END PANEL	BEE SPECIFICATIONS
PRE-MANUFACTURED WINDOW	SEE SPECIFICATIONS

UNIT WITH BULLET-RESISTANT GLAZING AND TRANSACTION DRAWER

SEE SPECIFICATIONS

29 24" DEEP SOLID SURFACE, COUNTER, BACKSPLASH & APRON

(30) WALL MOUNTED LIGHT FIXTURE.....SEE ELECTRICAL PLANS (31) 3/4" PLYWOOD DRAWER SUPPORT.......SEE DETAIL 10/A5.02 ...BOBRICK MODEL KB200-00 (32) WALL-MOUNTED..... BABY-CHANGING STATION (33) IX6 WOOD TRIM (STAINED)... ..SEE SPECIFICATIONS

(35) IX6 WOOD CHAIR RAIL (STAINED).....SEE DETAIL 10/A6.01

(34) 1x4 WOOD BASE (STAINED).....

H

ONSTRU

CEILING LINE

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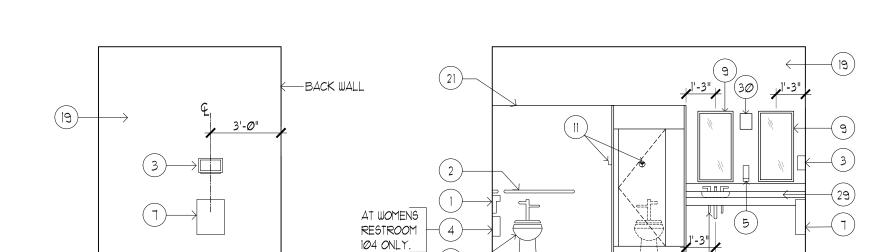
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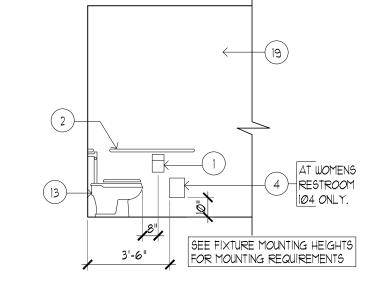
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PROJECT NO: 202270 ATE: MAY 2023

ENALRGED RESTROOM PLANS AND **NTERIOR ELEVS**

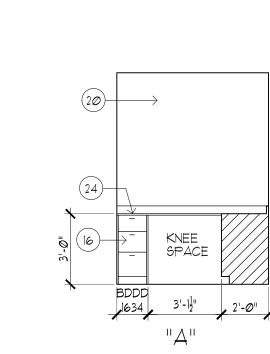


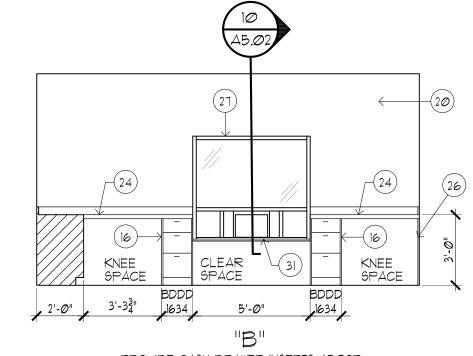






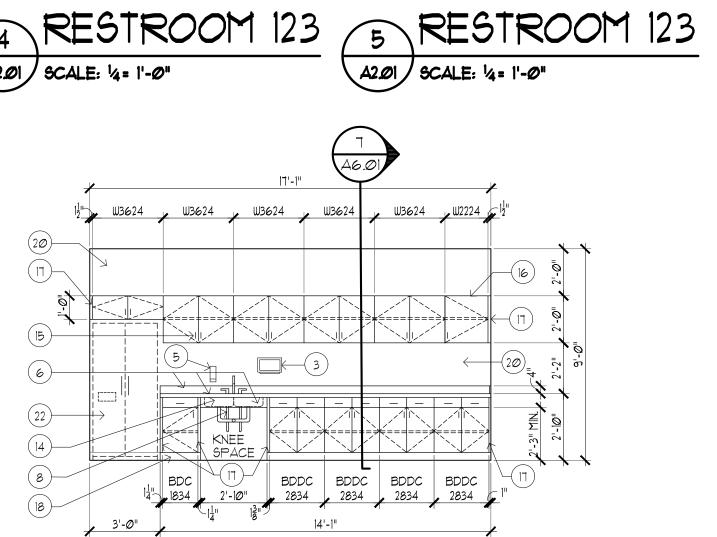






PROVIDE CASH DRAWER INSERTS AT TOP LOCKS AT THESE DRAWERS

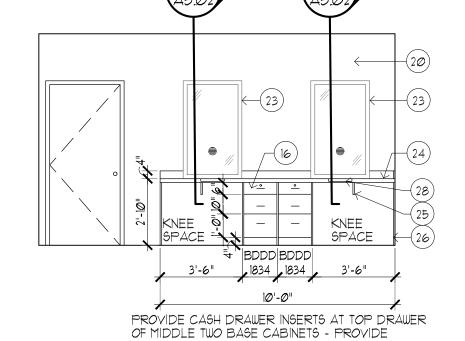
13 WORK AREA 117





SEE FIXTURE MOUNTING HEIGHTS

FOR MOUNTING REQUIREMENTS



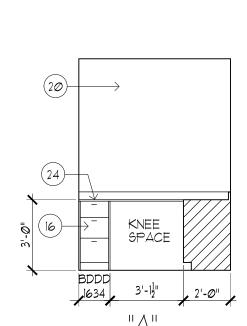
SEE FIXTURE MOUNTING HEIGHTS

© RESTROOM 105

FOR MOUNTING REQUIREMENTS

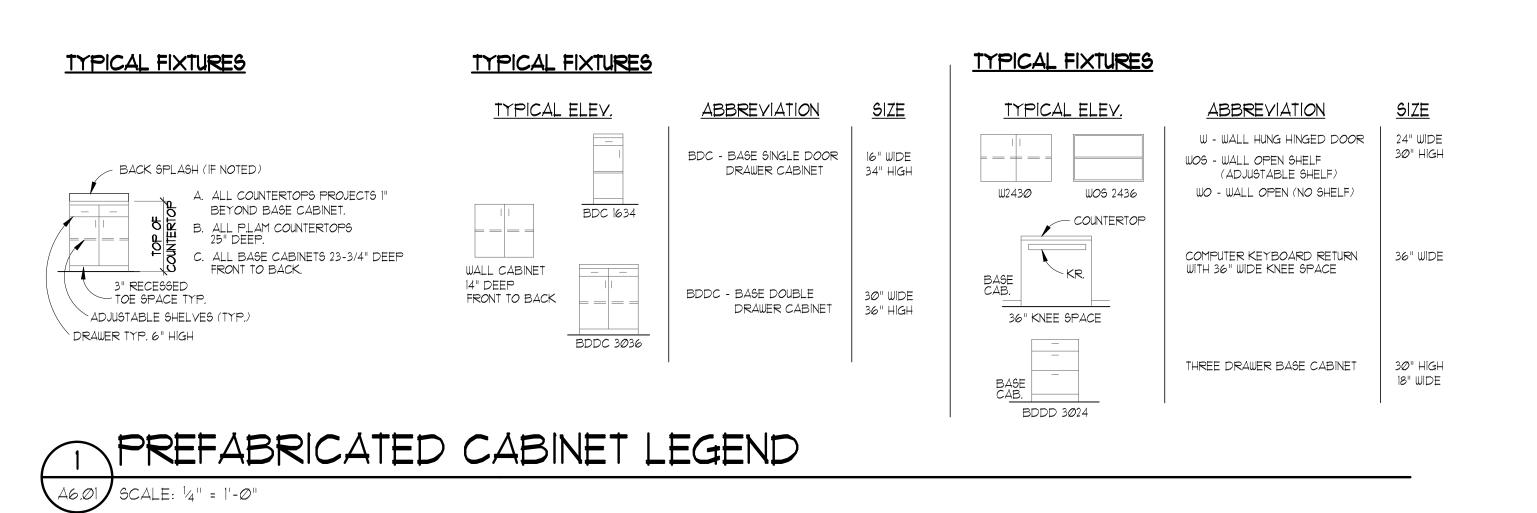
WOMENS

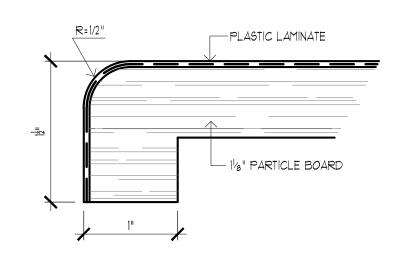
A2.01 SCALE: 14" = 1'-0"

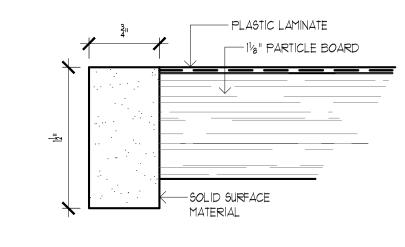


DRAWERS OF TWO BASE CABINETS - PROVIDE

(10) ELECTRIC DRINKING FOUNTAIN......SEE PLUMBING PLANS $\widehat{\ \)}$ COAT HOOK - MOUNT ON...

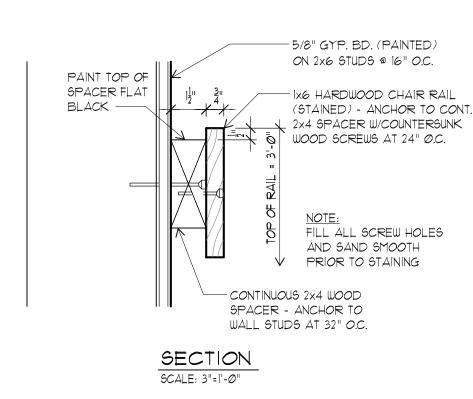


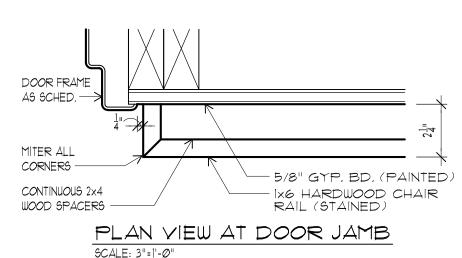


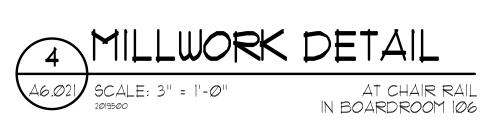


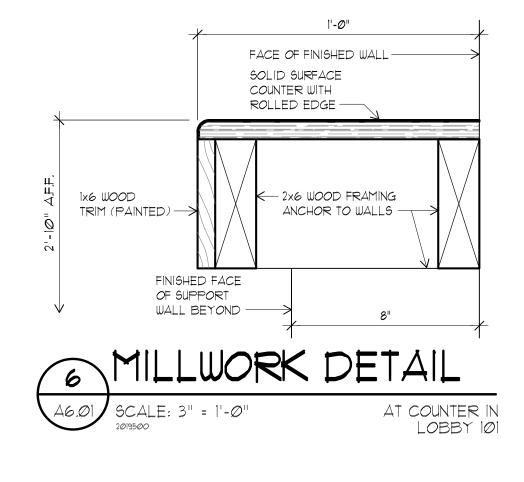


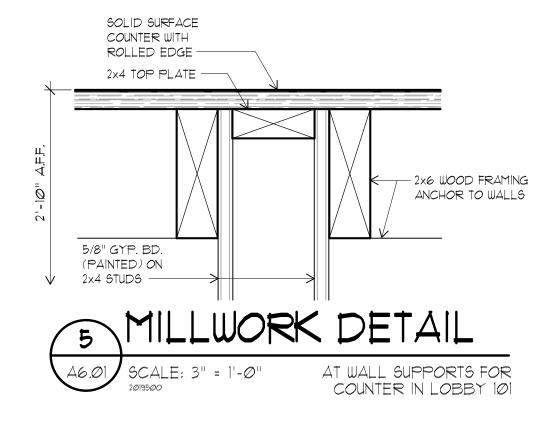


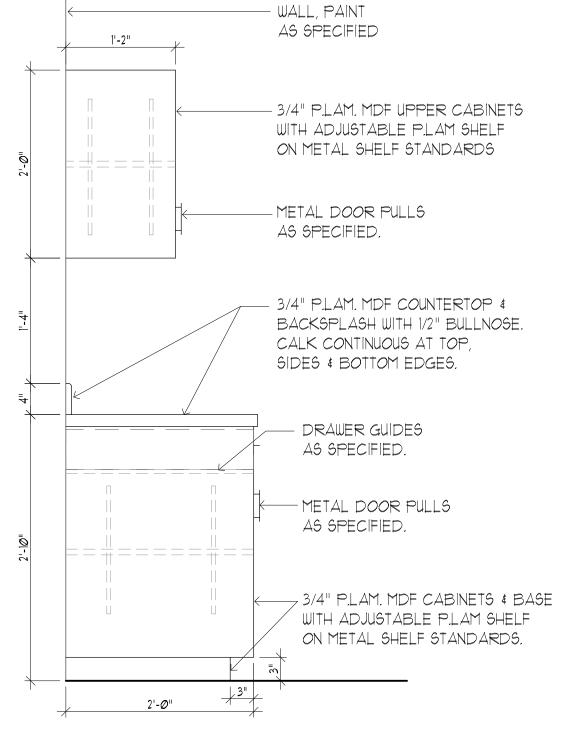






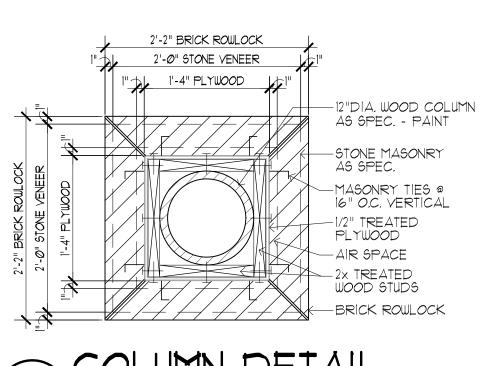














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TEXA

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ARCHITECTS

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PROJECT NO: 202270 DATE: **MAY 2023**

MILLWORK AND DETAILS

A6.01

1000 COORDINATION

- A. The Contractor shall compare the Architectural, Structural, Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for review.
- C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes drains and location of depressed and elevated floor areas.
- D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences Notes: shall be noted on the submittals.
- E. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.
- F. The details designated as "Typical Details" apply generally to the Structural Drawings in all areas where conditions are similar to those described in the details.
- G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the Structural Drawings shall be referred to the Architect. Differences shall also be clouded on the shop drawings.
- H. All structural elements of the project have been designed by the Engineer to resist the required Code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral- E. Wind Loads load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.
- 1. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Mork in accordance with the Structural Contract Documents.
- J. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, and Specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- K. Periodic site observation by field representatives of Intelligent Engineering Services, LLP (IES) is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Mork, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

1010 SUBSTITUTIONS

- A. All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding period.
- B. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be reviewed.

1020 CODES

- A. The General Building Code used as the basis for the structural design is as follows:
- Building Code: 2018 International Building Code with Local City Amendments

1030 IBC 2018 DESIGN LOADS

- A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:
- Ceiling and Mechanical at roof

Screens, Etc.) Not considered in the above distributed loading.

Note: See Roof plan for Concentrated MEP Loadings (Moveable Partitions, Heavy Pipe, Heaters,

B. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
Partitions at areas with Live Load	15	N/A
less than 80 psf		
Assembly areas		
Lobbies	100	N/A
Corridors		
First floor	100	N/A
Mechanical rooms, typical	150	Equip. Wt.
Roof - See Section Design Loads Note C		, ,

Notes:

Live Load Reduction a. Floor live loads have been reduced in accordance with the General Building Code, Section 1607.11 as follows:

 $LL_{red} = LL (O.25 + (15/sqrt(K_{||}*A_t)))$

Where LL_{red} = Reduced Live Load (psf) LL = Unreduced Live Load (psf) K_{II} = Live Load Element Factor A_t = Tributary Area (sf)

1030 IBC 2018 DESIGN LOADS (Cont.,

Notes (Cont.):

- b. the reduction, R, shall not exceed 40 percent for members supporting one level only, 60 percent for other members, or R as calculated in the following formula: 23.1 (1+
- c. Live loads exceeding 100 pounds per square foot have not been reduced, except columns supporting 2 or more stories, live loads have been reduced 20 percent. d. Connection Design. The reaction to be used for connection design both for the support member and within the end of the member delivering the reaction shall be based on the tributary area for the connection and not the reaction based on the reduced live load using the tributary area of the member itself. All connections shall be designed for a minimum service load of 10 kips vertical load, and 2 kips horizontal

5 psf

C. Roof Live Loads

ROOF LIVE LOAD ROOF USE CONCENTRATED Ordinary Flat, Pitched, and Curved Roofs

- a. Concentrated load applied to skeleton structure.
- b. Roof live load has been reduced according to the General Building Code using the formula:

$L_r = L_o \times R_1 \times R_2$

Where L_r = Reduced live load per square foot of horizontal projection supported by the member. L_0 = Unreduced design of roof live load per square foot of

> horizontal projection supported by the member. R_1 = Reduction factor based on Tributary Area R_2 = Reduction factor based in Roof Slope

D. Snow Loads

Ground snow load, Pa

Mind lateral load on structural frame is based on ASCE 7 using the following:

Ultimate Design Wind Speed (Vult)	109 mph
Nominal Design Wind Speed (Vasa)	84 mph
Exposure Category	C
Internal Pressure Coefficient, GCpi	+/-0.18
Risk Category	II

2. Ultimate Level Components and Cladding Wind Pressures:

Surface	(psf)	zone	Area, At (ft²)
Exterior	+35.27	Interior and edge	10 or less
Malls	-38.24	Interior	10 or less
	-47.28	Edges	10 or less
	+29.93	Interior and edge	100 or greater
	-36.61	Interior and edge	100 or greater
Roof	+21.34	Interior, edges, and corners	10 or less
	-65.21	Field	10 or less
	-95.00	Interior	10 or less
	-95.00	Edges	10 or less
	-112.93	Corners	10 or less
	+16	Interior edges and corners	100 or greater
	-20.30	Field	100 or greater
	-52.32	Interior	100 or greater
	-52.32	Edges	100 or greater
	-59.13	Corners	100 or greater

- Pressure for Tributary Areas in between the listed values may be linearly interpolated. Negative value signifies pressure acting away from the surface (suction).
- For edge and corner zone distances refer to Wind Zone summary plan for location and extent of wind zones and wind load pressures for both roof components & cladding and wall components & cladding
- Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.
- Wind loads provided in above table are in LRFD (1.0W)].

*Pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values.

F. Seismic Loads

1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

Seismic Importance Factor, Ie	1.25
Risk Category	II
Mapped Spectral Response Accelerations	
S _s (g)	0.052
S₁ (g)	0.029
Site Class	D
Design Spectral Response Accelerations	
S _{D5} (g)	0.056
$S_{D1}(g)$	0.046
Seismic Design Category	Α
Basic Seismic-force-resisting system	Steel Oordinary Moment Frames
Design Base Shear, V	5,400#
Seismic Response Coefficient(s), Cs	0.01
Response Modification Factor(s), R	3 1/2
Analysis Procedure Used	Equivalent Lateral Force

G. Mechanical Equipment Loads

- Loading for mechanical rooms are based on the weights of equipment and concrete pads as indicated on the Structural Drawings. The Contractor shall submit actual weights of equipment to be used in the project to the Structural Engineer for verification of loads used in the design at least three weeks prior to fabrication and construction of the supporting structure. Any revisions in equipment type, size, or quantity shall be reported to the Architect immediately for verification of the structural design.
- H. Restroom accessories, such as grab bars, tub and shower seats, fasteners, and mounting devices, shall be designed to resist a concentrated load of 250 lbf at any location and in any direction.

1030 IBC 2018 DESIGN LOADS

I. Load Combinations

- 1. Strength Design
- a. 1.4(D+F)
- b. $1.2(D+F) + 1.6(L+H) + 0.5(L_r \text{ or S or R})$ c. $1.2(D+F) + 1.6(L_r \text{ or S or R}) + 1.6H + (f_1L \text{ or 0.5W})$
- d. $1.2(D+F) + 1.0W + f_1L + 1.6H + 0.5(L_r \text{ or S or R})$
- e. $1.2(D+F) + 1.0E + f_1L + 1.6H + f_2S$
- f. 0.9D + 1.0W + 1.6H g. 0.9(D+F) + 1.0E + 1.6H
 - parking garages: and 0.5 for other live loads. f_2 = 0.7 for roof configurations (such as saw tooth) that do not shed snow off the structure;
 - and 0.2 for other roof configurations.

2. Allowable Stress Design:

- a. D+F b. D + H + F + L
- c. $D + H + F + (L_r \text{ or } S \text{ or } R)$
- d. $D + H + F + O.75L + O.75(L_r \text{ or } S \text{ or } R)$
- e. D + H + F + (0.6M or 0.7E)
- f. D + H + F +0.75(0.6W) + 0.75L + 0.75(L_r or S or R) a. D + H + F +0.75(0.7E) + 0.75L + 0.75S
- h. 0.6D + 0.6M + H i. 0.6(D+F) + 0.7E + H

Future Expansion: NO FUTURE expansions have been considered on the metal building rigid frames.

1040 BUILDING MOVEMENTS

- A. The building movements specified herein are anticipated to occur and shall be taken into account by the Contractor in the design, detailing, and installation of the building elements.
- B. interior floor/roof deflections: Provisions shall be made in interior partitions and other elements supported by or attached to the floors or roofs for relative floor to floor vertical deflections of 3/4 inches.
- C. Slab-on-grade movement: Provisions shall be made in the building cladding and interior partitions for relative deflections between the soil-supported slab on grade and the roof or floor level directly above. Design of soil supported building slabs is based on a range of O inches to 1 inches, based on the recommendations of the project geotechnical report. Refer to Building Pad Preparation Notes for soil stabilization under soil-supported building slabs.
- D. Lateral building drift: Provisions shall be made in building cladding and other architectural finishes for relative floor to floor lateral deflections of story height/360.

1100 SUBMITTALS

- A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.
- B. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify that they have done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the Contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned
- C. Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.
- D. Where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within 2 weeks of receipt
- E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the Contractor from compliance with requirements of the plans and specifications. Engineer's review is for general conformance with the requirements of the Structural Drawings. Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating the work with that of all other contractors.
- F. Refer to individual sections for specific submittal requirements.

2315 BUILDING PAD PREPARATION:

- A. Structural fill material shall have a plasticity index below 18 and not posses particle sizes greater than 3 inches in diameter. The upper six feet of on site soils can be considered as select fill provided they are stockpiled and tested for suitabilty as select soils by the Geotechnical Engineer of Record.
- B. Prior to placing fill material, remove all organic and other deleterious material from the existing subgrade for a distance of 5' O" beyond building line, to a depth of where vegetation is not present, approximately 12" below existing grades. Excavate the building pad area to provide a minimum of 8'-0" of compacted select fill directly below the slab soffit. All exposed surfaces shall then be scarified to a depth of 6 inches, watered as required and re-compacted to a minimum of 95 percent of the maximum dry density as defined by ASTM D 698 (Standard Proctor Test) at a moisture content within 0 and (+) 4 2 percent of the optimum moisture content.
- C. The compacted surface shall then be proof-rolled using a fully loaded dump truck or equivalent with 20 tons or heavier over the building pad with not evidence of pumping or 1" deflections. Soft spots or areas of pumping should be excavated and re-compacted. Excavated areas shall be replaced with materials meeting select fill requirements.
- D. Structural fill shall be placed in 8 inch loose lifts to final subgrade elevation, watered as required and compacted to a minimum of 98 percent of the maximum dry density as defined in ASTM D 698 at a moisture content within (-) 3 to (+) 3 percent of the optimum moisture content.
- E. Compaction and moisture content of subgrade and each lift of structural fill shall be inspected and approved by a qualified engineering technician, supervised by a Geotechnical Engineer.
- . Structural fill shall not be placed beyond the limits of the exterior building structure.
- G. Provide a vapor retarder that conforms to ASTM E1745, Class A or better with a maximum water vapor permeance of 0.03 perms per ASTM E154. Vapor retarder shall be no less than 15 mils thick. Lap and tape seams per the manufacturer's specifications. Repair all damages to vapor barrier per manufacturer.
- H. Building pad preparation information is based on a geotechnical report provided by Burge Engineering & Associates, BEA Project No. 12-23-0099, dated March 28, 2023.

2480 CONCRETE FOOTINGS

A. Concrete footing design is based on an allowable net bearing capacity of noted below in accordance with the geotechnical report by Burge Engineering & Associates, BEA Project No. 12-23-0099, dated March 28, 2023

Spread Footings at 24" below grade . . 2,000 psf

- B. Bearing stratum shall be in compacted fill or natural grade and shall be relatively level
- C. Footings not specifically located on the plan shall be located on centerline of pilaster or column above. Where no pilaster or column occurs, locate on centerline of wall or beam.
- f₁ = 1.0 for places of public assembly live loads in excess of 100 pounds per square foot and D. Provide dowels from footings into concrete above using same bar size and number as shown for pilaster or column above. Where no pilaster or column occurs, use 4 #7 dowels. Extend dowels 30 bar diameters into pier and wall, beam, pilaster or column, unless noted otherwise on the Structural Drawings.
 - E. Elevation of top of plinths/footings, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by the footing.
 - F. Footing excavations shall be to neat lines and shall be free of loose or wet materials.
 - 6. Footing reinforcing and concrete shall be placed within 24 hours after excavations are complete; Protect exposed subgrade with plastic to prevent drying out if concrete cannot be placed within
 - H. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in

I. All footings shall be inspected by a representative of BURGE ENGINEERING & ASSOCIATES in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report and that the footing has been constructed to specified size, with detailed reinforcing, and to specified tolerances.

3000 CAST-IN-PLACE CONCRETE

A. Structural Concrete Code: Building Code Requirements for Structural Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

1. All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

2. Concrete Mix Schedule:

Conc	Strength	Agg		Slump	Max	
<u>Class</u>	psi	Туре	Size	Inches	w/c	Notes
C	3000	NMT	1"	3-5	0.55	
D	3500	NMT	3/4"	3-5		

- a. NMT" refers to normal concrete having an dry unit weight of approximately
- 145 pcf (ASTM c33 AGGREGATE) b. Where the w/c ratio is not indicated in the Concrete Mix Schedule, it shall be
- as necessary to meet strength requirements. c. Where the w/c ratio is shown, it shall be adhered to regardless of the
- strength requirements.
- d. Strength" is required compressive cylinder strength at an age of 28 days. e. "Maximum aggregate size" is defined as first sieve with greater than 15 cumulative percent retained.

3. Mix Usage Schedule:

mixtures with confirmation tests

Description of Use	Concrete Class	Air Content
Grade Beams/Foundation/Walls	C	3 - 6%
nterior Slab-on-Grade	C	
Housekeeping Pads	D	

- C. Fly ash shall not be used in architecturally exposed concrete.
- D. Provide 4 1/2 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.
- E. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.
- F. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, and the following:
- 1. Conduits and pipes running within a slab, beam, or wall shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam and shall be located within the middle third of that thickness.
- 2. Conduits, pipes, and sleeves passing horizontally through a beam shall not be larger in outside dimension than 1/3 the overall depth of the beam and shall be located within the middle third of
- 3. Conduits, pipes, and sleeves passing vertically through a beam shall utilize a sleeve not larger in outside dimension than 1/3 the overall width of the beam or 6 inches (whichever is less). The sleeve shall be made of hot dip galvanized schedule 40 steel.
- 4. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on
- prior approval by the Engineer for each placement, or contractor ability to successfully pour in a

H. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of

G. Concrete placements shall not exceed 10,000 square feet or 100 linear feet on each side without

discharge from the truck. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2.3. Each proposed mix design shall be accompanied by a record of past performance or by three laboratory trial



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TO THE FULL EXTENT OF THE LAW. PROJECT NO: 202270

DATE: 05/19/23 **STRUCTURAL**

NOTES

ENGINEERING ENGINEERING COMMUNITIES FROM THE GROUND UP 1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232 ie-services.com TBPE FIRM F-432

3020 CONCRETE EXPOSURE CLASS

- A. Freezing an Thawing exposure category: F
- a. Class FO Concrete not exposed to freezing and thawing cycles
- Max w/cm ratio none
- Min compressive strength (psi) 2500
- Air content none Limits on cementitious materials - none
- b. Class F1 Concrete exposed to freezing and thawing cycles with limited exposure to water Max w/cm ratio - 0.55
- Min compressive strength (psi) 3500
- Air content Table 19.3.3.1 Limits on cementitious materials - none
- $\,$ c. Class F2 Concrete exposed to freezing and thawing cycles with frequent exposure to water
- Max w/cm ratio 0.45
- Min compressive strength (psi) 4500
- Air content Table 19.3.3.1 Limits on cementitious materials - none
- d. Class F3 Concrete exposed to freezing and thawing cycles with frequent exposure to water
- and exposure to deicing chemicals
- Max w/cm ratio 0.40 Min compressive strength (psi) - 5000
- Air content Table 19.3.3.1
- Limits on cementitious materials 26.4.2.2(b)

B. Sulfate exposure category: S

- a. Class 50 Water soluble sulfate concentration in soil by percent mass is less than 0.10 and/or H. Reinforcing steel clear cover shall be as follows: dissolved sulfate concentration in water by ppm is less than 150
- Max w/cm ratio None Min compressive strength (psi) - 2500
- Limits on cementitious material types none
- Calcium chloride admixture no restriction
- b. Class 51 Water soluble sulfate concentration in soil by percent mass is equal or more than 0.10 but less than 0.20 and/or dissolved sulfate concentration in water by ppm is equal or more than 150 but less than 1500 or seawater
- Max w/cm ratio 0.50
- Min compressive strength (psi) 4000
- Limits on cementitious material types ASTM C150 type II, ASTM C595 types IP, IS, or IT with (MS) designation, ASM C1157 type MS
- Calcium chloride admixture no restriction

3020 CONCRETE EXPOSURE CLASS

- c. Class 52 Water soluble sulfate concentration in soil by percent mass is equal or more than 0.20 but less than 2.00 and/or dissolved sulfate concentration in water by ppm is equal or more than 1500 but less than 10,000
- Max w/cm ratio 0.45
- Min compressive strength (psi) 4500 • Limits on cementitious material types – ASTM C150 type V, ASTM C595 types IP, IS, or IT with (HS) designation, ASM C1157 type HS
- Calcium chloride admixture not permitted d. Class 53 - Water soluble sulfate concentration in soil by percent mass is greater than 2.00 and/or dissolved sulfate concentration in water by ppm is greater than 10,000
- Max w/cm ratio 0.45
- Min compressive strength (psi) 4500
- Limits on cementitious material types ASTM C150 type V plus pozzolan or slag cement, ASTM C595 types IP, IS, or IT with (HS) designation plus pozzolan or slag cement, ASM
- C1157 type HS plus pozzolan or slag cement
- Calcium chloride admixture not permitted C. Water exposure category: W
- a. Class MO Concrete in dry service. Concrete in contact with water and low permeability is
- not required
- Max w/cm ratio none Min compressive strength (psi) - 2500
- b. Class W1 Concrete in contact with water and low permeability is required
- Max w/cm ratio 0.50 Min compressive strength (psi) - 4000
- D. Corrosion exposure category: C
- a. Class CO Concrete dry or projected from moisture
- Max w/cm ratio none
- Min compressive strength (psi) 2500
- Max water-soluble chloride ion content in concrete, percent by weight of cement 1.00 (non-prestressed concrete), 0.06 (pre-stressed concrete)
- b. Class C1 Concrete exposed to moisture but not to an external source of chloride Max w/cm ratio - none
- Min compressive strength (psi) 2500
- Max water-soluble chloride ion content in concrete, percent by weight of cement 0.3 (non-prestressed concrete), 0.06 (pre-stressed concrete)
- c. Class C2 Concrete exposed to moisture and an external source of chlorides from deicing
- chemicals, salt, brackish water, seawater, or spray from these source Max w/cm ratio - 0.40
- Min compressive strength (psi) 5000
- Max water-soluble chloride ion content in concrete, percent by weight of cement 0.15 (non-prestressed concrete), 0.06 (pre-stressed concrete)
- Concrete cover not less than 2" for walls and slabs (1.5" for pre-stress under plant control conditions) and 2.5" for other members (2" for pre-stress under plant control conditions).

3050 SLAB-ON-GRADE

- A. Provide control joints or construction joints at the centerlines of all columns or at 15 on center maximum in both directions. Coordinate locations with Architect and submit for approval.
- B. Tooled, sawcut, or preformed joints shall be 1/4 the depth of the slab. Sawcut joints must be made within 12 hours after the slab has been placed.
- Metal keyway forms or bulkheads shall be removed prior to placement of adjacent concrete.
- D. Slab-on-grade shall be placed over prepared subgrade per Building Pad Preparation notes.

3200 CONCRETE REINFORCING

- A. Concrete reinforcement for the project shall conform to the following:
- 1. All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.
- 2. Vertical Reinforcing Steel in Columns. ASTM A615, Grade 60.
- 3. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706.
- 4. Deformed Bar Anchors (DBA). ASTM A1064 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.
- 5. Melded wire reinforcement. Melded smooth wire reinforcement, ASTM A1064, yield strength 65,000 psi where noted on the Structural Drawings. Welded deformed wire reinforcement, ASTM A497, yield strength 70,000 psi where noted on the Structural Drawings. Welded wire reinforcement to be provided in flat sheets.
- B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.
- C. Welded Wire Reinforcement shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2". WWR shall be flat sheets and not rolled.

3200 CONCRETE REINFORCING

- D. Reinforcement in Housekeeping Pads shall be welded smooth wire reinforcement 6×6 M2.9 \times M2.9 minimum in all housekeeping pads supporting mechanical equipment whether shown on the Structural Drawings or not unless heavier reinforcement is called for on the Structural Drawings.
- E. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
- 1. Class A lap beam top reinforcing bars at mid span.
- 2. Class A lap beam bottom reinforcing bars at the supports.
- 3. Provide Class B lap at other location pending Engineer's approval
- 5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.

4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs

- 6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.
- F. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.
- G. Heat shall not be used in the fabrication or installation of reinforcement.
- - 1. Beams 1-1/2" interior, 2" exterior exposure 1-1/2" interior, 2" exterior exposure
 - 2. Columns 3. Earth-formed Grade Beams 1-1/2" top, 3" sides, 3" bottom
 - 4. Footings
 - 5. Formed Grade Beams 1-1/2" top, 2" sides, 3" bottom 6. Slab-on-grade 3/4" top
 - 7. Malls 1" interior, 2" exterior exposure "Exterior Exposure refers to concrete exposed to earth or weather

5160 PRE-ENGINEERED METAL BUILDINGS

- A. All structural steel used for Pre-Engineered Building Components shall be designed, fabricated, and erected in conformance with the latest standards of the AISC. The design and fabrication of cold-formed steel members shall comply with the AISI, latest edition.
- B. The design for all Pre-Engineered Building members and components (including anchor bolt sizes, lengths and embedment) shall be the responsibility of the Pre-Engineered Building manufacturer. The design shall be carried out under the direction of a Professional Engineer licensed in the State of Texas.
- C. The design of all Pre-Engineered Building Components shall be based on the loads indicated in the "Design" Loads" section of the Structural Notes. Deflections of the Pre-Engineered Building Structure under loading shall not exceed the following:

Rigid Frames and Columns - Drift H/360 Lateral Mall Girst and Eave Struts L/360 Lateral Rigid Frames and Roof Purlins with: Drop in Ceiling or No Ceiling L/240 Vertical Plaster or Gypsum Board Ceiling L/360 Vertical

*where "L" is defined as a member's length between supports and "H" ids defined as a column's height measured from to top of column

- D. Bases of columns shall be designed as pinned supports.
- E. All building components shall be compatible with the Contract Documents. Any requests for modifications shall

F. Field welded connections for cold-formed steel members shall not be permitted without specific written

- approval of the Architect.
- G. Lateral stability of the building frame shall be provided in the structural framing. Walls and other building components shall not be used to resist lateral loads unless noted otherwise on the Structural Drawings.
- H. Shop drawings shall be prepared for all structural items and submitted for record only. Structural Drawings shall not be reproduced and used as shop drawings. Any items deviating from the Contract Documents or from previously submitted shop drawings shall be so noted. Shop drawings shall be sealed and signed by a Professional Engineer licensed in the State of Texas.
- Steel anchor bolt pattern templates shall be provided to the contractor to set anchor bolts for all base plates.
- J. Lateral rod bracing shall be round bar stock material and not air craft cable braided steel.

5400 LIGHT GAUGE STRUCTURAL STEEL MEMBERS

- A. Light Gauge Steel: North American Specification for the Design of Cold-Formed Steel Structural Members, American Iron and Steel Institute, AISI S100, as referenced by the General Building Code.
- B. The design, installation, and construction of cold-formed structural steel shall be in accordance with the American Iron and Steel Institute (AISI-General, AISI-NAS, AISI-Header, AISI-WSD, and AISI-Lateral)
- C. Unless noted otherwise on the Structural Drawings, all cold-formed structural steel shall be manufactured from zinc coated (hot dip process minimum G60) sheet conforming to current ASTM A653 with minimum yield strength of 33 ksi for 18 gauge and lighter and 50 ksi for 16 gauge and heavier.
- D. Provide cold-formed structural steel studs, jambs, headers, and sills as indicated on the Structural Drawings.
- E. All connections in between cold-formed structural steel and connections to foundation, unless noted otherwise on the Structural Drawings, are not the responsibility of the Engineer, and shall be designed by a Professional Engineer licensed in the State of Texas.
- F. The design of connections shall include superimposed dead and live loads, special loading conditions, net wind uplift loads, and wall wind pressures provided in the Structural Drawings.
- 6. All cold-formed structural steel studs and jambs shall be full height without an intermediate plate line or splice unless detailed otherwise on the Structural Drawings.

H. Horizontal bridging for wall studs shall be provided at 6 feet on center maximum in accordance with the typical

- Place a continuous runner at the bottom and top of all wall studs. Bottom runner shall be bolted or shot to
- support members as required by the connection designer, and at a maximum spacing of 36 inches on center J. Contractor shall submit shop drawings for review and approval prior to fabrication or construction. Shop drawings shall be signed and sealed by a Professional Engineer licensed in the State of Texas to include the
- 1. Design of permanent wall horizontal bridging and joist blocking, including member sizes and connections.
- K. Properties of connection components, such as clips, straps, and screws

following:

- L. Calculations including forces in connections and design of connections.
- M. Erection plan identifying all temporary bracing required for wall studs

100000 DESIGN BY CONTRACTOR

- A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a Professional Engineer licensed in the State of Texas.
- 1. Cold Formed Metal Framing
- 2. Curtainwall Systems
- 3. Pre-Engineered Metal Buildings

EOR -

EQ -

EM -

EXIST -

EXP -

EXT -

F TO F -

FABR .

FD -

ENGINEER OF RECORD

EQUAL (OR) EQUIVALENT

EQUIPMENT

EACH MAY

EXISTING

EXTERIOR

EXPANSION

EXTENSION

FACE TO FACE

FABRICATOR

FLOOR DRAIN

FINISHED FLOOR ELEVATION

FOUNDATION

- 4. Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
- 5. Embedded assemblies, inserts, and/or hangers for fire suppression systems.
- B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

SYMBOLS LEGEND				
SYMB <i>O</i> L	DESCRIPTION			
COLUMN SIZE BASE PLATE TYPE	STEEL COLUMN			
#	NEW COLUMN GRID			
	SLAB OR DECK SPAN DIRECTION			
77777	DROP IN SLAB OR DECK			
	DROP AND SLOPE IN SLAB OR DECK			
7//////////////////////////////////////	SLOPE IN SLAB OR DECK			
*	HEAVY STEEL CONNECTION			
#	STUDRAIL			
10P, 15P, 20P, 30P, 40P, 53P, 66P	STANDARD PAN WIDTH			
xxSP	SKIP PAN, XX MIDTH			

			10P, 15P, 20P, 30P, 40P	, 53P, 66P S	TANDARD PAN WIDTH
			xx5P	5	KIP PAN, XX MIDTH
4/C -	AIR CONDITIONER	FIN -	FINSH (OR) FINISHED	PEMB -	PRE-ENGINEERED METAL BUILDING
4B -	ANCHOR BOLT	FIN FL -	FINISHED FLOOR	PERP -	PERPENDICULAR
BV -	ABOVE	FL -	FLOOR	PI -	PLASTICITY INDEX
CI -	AMERICAN CONCRETE INSTITUTE	FLG -	FLANGE	PJ -	PANEL JOINT
DDL -	ADDITIONAL	FP -	FIREPROOF(ING)	PJP -	PARTIAL JOINT PENETRATION
DH -	ADHESIVE	FRMG -	FRAMING	PL -	PLATE
- LC	ADJACENT	FS -	FAR SIDE	PLF -	POUNDS PER LINEAR FOOT
EC -	ARCHITECTURALLY EXPOSED CONCRETE	FT -	FOOT (OR) FEET	PLYMD -	PLYWOOD
55 -	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FTG -	FOOTING	PREFAB -	PREFABRICATED
F -	ABOVE FINISHED FLOOR	FV -	FIELD VERIFY	PRELIM -	PRELIMINARY
5GR -	AGGREGATE			PROJ -	PROJECTION
1 U -	AIR HANDLING UNIT	GA -	GAGE (OR) GAUGE	PSF - PSI -	POUNDS PER SQUARE FOOT
5C - _T -	AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE	GALV - GC -	GALVANIZED GENERAL CONTRATOR	PSL -	POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER
PROX -	APPROXIMATE	GLULAM -	GLUE LAMINATED TIMBER	PT -	POINT (OR) PRESSURE TREATED
7 NOX - RCH -	ARCHITECT (OR) ARCHITECTURAL	GR -	GRADE	P-T -	POST-TENSION(ED)
O 11	ANOMITEOT (ON) ANOMITEOTORY	GR BM -	GRADE BEAM	, ,	1 OST TENSION(ED)
т <i>о</i> в -	BACK TO BACK			aty -	QUANTITY
) -	BOARD	HB -	HORIZONTAL BRACE		
O	BOTTOM OF	HCA -	HEADED CONCRETE ANCHOR	R -	RADIUS (OR) REACTION (OR) REMA
-	BACK FACE	HDG -	HOT DIPPED GALVANIZED	RD -	ROOF DRAIN
F -	BELOW FINISH FLOOR	HDR -	HEADER	REINF -	REINFORCE(ING)(ED)(MENT)
	BOTTOM INSIDE LAYER	HI -	HIGH	REQ -	REQUIRE(MENT)
. - 	BUILDING LINE	HK -	HOOK	REQD -	REQUIRED
.DG -	BUILDING	HL -	HOLE	RET -	RETAINING
.KG -	BLOCKING	HORIZ -	HORIZONTAL	RET SYS -	RETENTION SYSTEM
1 -	BEAM DOTTO A CUTTO DE LA NOTE	HP -	HIGH POINT	RF -	ROOF
DL - DS -	BOTTOM OUTSIDE LAYER BOTTOM OF STEEL	HS - HSS -	HEADED STUD HOLLOM STRUCTURAL SECTION	RIS - RM -	RISER ROOM
)5 -)TT -	BOTTOM OF STEEL	H55 - HT -	HEIGHT	RM - RO -	ROUGH OPENING
フロー ラ _	BASE PLATE	п! -	HLIGHT	RTU -	ROOF TOP UNIT
RDG -	BRIDGING	ID -	INSIDE DIAMETER	1210 -	NOO! TO! DINT
36 -	BEARING	IF -	INSIDE FACE	SCHED -	SCHEDULE(D)
RKT -	BRACKET	 IN -	INCH	SECT -	SECTION
۲L -	BRICKLEDGE	INFO -	INFORMATION	SF -	SQUARE FOOT
MT -	BASEMENT	INT -	INTERIOR	SHT -	SHEET
MN -	BETWEEN	INTERM -	INTERMEDIATE	SHTG -	SHEATHING
				SIM -	SIMILAR
-	CAMBER (OR) COMPRESSION	JG -	JOIST GIRDER	- ILB	STEEL JOIST INSTITUTE
ANT -	CANTILEVER	JST(S)	JOIST(S)	SL -	SLOPE
5 -	COLD FORMED STEEL	JT -	TMIOL	50G -	SLAB ON GRADE
5 -	CENTER OF GRAVITY			SP -	SOUTHERN PINE
55 - -	CENTER OF GRAVITY OF STRAND	K -	KIPS (1000 LBS)	SPA -	SPACE
P -	CAST-IN-PLACE	KLF -	KIP PER LINEAR FOOT KIP PER SQUARE FOOT	SPECD -	SPECIFIED SPECIFICATION(S)
] - JP -	CONTROL JOINT COMPLETE JOINT PENETRATION	KSF - KSI -	KIP PER SQUARE INCH	SPEC(S) - SQ -	SQUARE
	CENTER LINE	NDI -	NIF FER SQUARE INCH	56 -	STAINLESS STEEL
 -6 -	CEILING	L -	LENGTH	55L -	SHORT SLOTTED HOLE
.R -	CLEAR (OR) CLEARANCE	LBS -	POUNDS	STAGG -	STAGGERED
1U -	CONCRETE MASONRY UNIT	LL -	LIVE LOAD	STD -	STANDARD
DL -	COLUMN	LLH -	LONG LEG HORIZONTAL	STIFF -	STIFFENER
OR COMP	- COMPRESSION	LLY -	LONG LEG VERTICAL	STIRR -	STIRRUPS
DNC -	CONCRETE	LO -	LOW	STL -	STEEL
NN(S) -	CONNECTION(5)	LOC -	LOCATION	STRUCT -	STRUCTURE (OR) STRUCTURAL
NST -	CONSTRUCTION	LONG -	LONGITUDINAL		- SUBCONTRACTOR
- TL TRAC	CONSTRUCTION JOINT	LP -	LOW POINT	SM -	SHEARMALL (OR) SIDEMALK
NT -	CONTINOUS	LSH -	LONG SIDE HORIZONTAL	_	
ONTR -	CORDINATE	LSL -	LONG SIDE VERTICAL	T -	TENSION TOP, OF
ORD - 'R -	COVER	LSV - LVL -	LONG SIDE VERTICAL LAMINATED VENEER LUMBER	T. <i>O</i> T&B -	TOP OF TOP AND BOTTOM
i~ -	COVER	LVL - LM -	LAMINATED VENEER LUMBER LIGHTWEIGHT	1 &B - T&G -	TONGUE AND GROOVE
3A -	DEFORMED BAR ANCHORS	LMC -	LIGHTWEIGHT CONCRETE	TEMP -	TEMPERATURE
3L -	DOUBLE	L 10 -	LOW LOW CONCIL	THK -	THICK
- -	DECK EDGE	М -	MOMENT	THRD -	THREAD(ED)
· ·	DEVELOPMENT	MAS -	MASONRY	TIL -	TOP INSIDE LAYER
:L -	DOUGLAS FIR LARCH	MATL -	MATERIAL	TOB -	TOP OF BEAM
\ -	DIAMETER	MAX -	MAXIMUM	TOC -	TOP OF CONCRETE
46 -	DIAGONAL	MC -	MOMENT CONNECTION(S)	TOF -	TOP OF FOOTING
1(5) -	DIMENSION(S)	MECH -	MECHANICAL	- LOT	TOP OF JOIST
.G -	DECKING	MEP -	MECHANICAL, ELECTRICAL, PLUMBING	TOL -	TOP OUTSIDE LAYER
-	DEAD LOAD	MEZZ -	MEZZANINE	TOP -	TOP OF PIER
-	DOWN	MFR -	MANUFACTURER	TOPC -	TOP OF PIER (PILE) CAP
-	DOWNSPOUT	MID -	MIDDLE	TOS -	TOP OF STEEL
L -	DETAIL	MIN -	MINIMUM	TOM -	TOP OF WALL
G(S) -	DRAWING(S)	MISC -	MISCELLANEOUS	TR -	TREAD
L(S) -	DOMELS	MTL -	METAL	TRANSV -	TRANSVERSE
	-1 60		VE18 F16F	TYP -	TYPICAL
-	EACH EACE (OR) EXHAUGT EAN	NF -	NEAR FACE	1810	UNI EGG MOTED OTHERWISE
-	EACH FACE (OR) EXHAUST FAN	NIC -	NOT IN CONTRACT	UNO -	UNLESS NOTED OTHERWISE
_	EXPANSION JOINT	NOM -	NOMINAL NONLGHRINK	\ /	GUEAD
- EC -	ELECTRICAL	NS - NTS -	NON-SHRINK NOT TO SCALE	∨ - ∨B -	SHEAR VERTICAL BRACE
:C - :V -	ELECTRICAL ELEVATOR	N19 -	NOT TO JORLE	VB - VERT -	VERTICAL BRACE VERTICAL
.y - 3ED -	EMBEDMENT	00 -	ON CENTER	4 FIV1 -	
GR -	ENGINEER	OCEM -	ON CENTER EACH WAY	M -	MIDTH
OR -	ENGINEER OF RECORD	OD -	OUTSIDE DIAMETER (OR) OVERFLOW DRAIN	W/ -	MITH

OUTSIDE DIAMETER (OR) OVERFLOW DRAIN

OUTSIDE FACE

OPENING(S)

OPPOSITE

PARALLEL

OPNG(S) -

OPP -

P/E -

PAR -

PAF -

OPPOSITE HAND

PRECAST CONCRETE

POWDER ACTUATED FASTENER

POUNDS PER CUBIC FOOT

PRE-ENGINEERED



MITHOUT

MINDOM

MEIGHT

MIND LOAD

MORK POINT

MATERSTOP

WATERPROOFING

WELDED WIRE MESH

M/O -

MD -

MDM -

ML -

MT -

MMM -

MPFG -

INTELLIGENT ENGINEERING ENGINEERING COMMUNITIES FROM THE GROUND UP 1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232 210.349.9098 ie-services.com IES JOB NO: 1223216 TBPE FIRM F-432

ARCHITECTS 13300 OLD BLANCO RD SAN ANTONIO, TEXAS 79216 TEL: (210) 349-7950 FAX: (210) 366-0847

> 5 \mathbf{m}

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PROJECT NO: 202270

DATE: 05/19/23 **STRUCTURAL NOTES**

SPECIAL INSPECTIONS TABLES FOR STRUCTURAL ELEMENTS - 2018

SPECIAL INSPECTIONS

- 1. Special Inspections shall be performed in accordance with Chapter 17 of the 2018 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all required tests and inspections listed in the following tables. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.
- 2. Where structural members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

REQUIRED SPECIAL INSPECTIONS FOR WELDING OF	STRUCTURAL S	STEEL ¹ (AISC 3	60-16 Table N5.4	4)				
SPECIAL INSPECTION TYPE	INSPECTION	FREQUENCY	REFERENCED	IBC				
	CONTINUOUS	PERIODIC	STANDARD	REFERENCE				
1. Inspection tasks prior to welding:								
a. Melder qualification records and continuity records		×						
b. Welding procedure specifications (WPSs) available	×							
 c. Manufacturer certifications for welding consumables available 	×							
d. Material identification (type/grade) ²		×						
e. Welder identification system ²		X						
f. Fit-up of CJP groove welds (including joint geometry) 2 1) Joint preparation 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location) 5) Backing type and fit (if applicable) AISC 360-16 N5.4-1: AWS D1.1								
 g. Fit-up of CJP groove welds of HSS t-, y-, and k-joints without backing (including joint geometry)² 1) Joint preparation 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location) 	g. Fit-up of CJP groove welds of HSS t-, y-, and k-joints without backing (including joint geometry) ² 1) Joint preparation 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces)							
h. Configuration and finish of access holes ²		×						
 i. Fit-up of fillet welds² 1) Dimensions (alignment, gaps at root) 2) Cleanliness (condition of steel surfaces) 3) Tacking (tack weld quality and location) 		×						
2. Inspection tasks during welding:								
 a. Control and handling of welding consumables ² 1) Packaging 2) Exposure control 		×						
b. No welding over cracked tack welds ²		×	_					
c. Environmental conditions ²		×						
 1) Wind speed within limits 2) Precipitation and temperature 								
 d. MPS followed ² 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min/max) 7) Proper position (F, V, H, OH) 		×	AISC 360-16 N5.4-2: AMS D1.1	1705.2.1				
e. Melding techniques ² 1) Interpass and final cleaning 2) Each pass within profile limitations 3) Each pass meets quality requirements		×						
f. Placement and installation of steel headed stud anchors	×							
3. Inspection tasks after welding:								
a. Welds cleaned		X						
b. Size, length and location of welds	×							
 c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity 	×		AISC 360-16 N5.4-2: AWS D1.1	1705.2.1				
d. Arc strikes	×							
e. k-area ³	×							
f. Backing removed and weld tabs removed (if required)	×							
g. Repair activities	×							
h. Document acceptance or rejection of welded joint or member	×							
 No prohibited welds have been added without the approval of the Engineer of Record 		X						
j. Weld access holes in rolled heavy shapes and built-up heavy shapes ⁴	×							

- Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI).
 The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 assigned to the Quality Control Inspector (QCI).
- 2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.
- 3. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.
- 4. After rolled heavy shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks. Shapes are considered heavy when flange or plate thickness exceeds 2 inches.

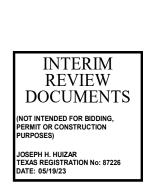
	REQUIRED SPECIAL INSPECTIONS FOR BOLTING S		•	J-18 Table NS.8)	
	SPECIAL INSPECTION TYPE	INSPECTION	FREQUENCY	REFERENCED	IBC
		CONTINUOUS	PERIODIC	STANDARD	REFERENC
1. In	spection tasks prior to bolting:				
а	. Manufacturer's certifications available for fastener materials	×			
Ь	. Fasteners marked in accordance with ASTM requirements		×		
C	. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) ²		×		
d	. Correct bolting procedure selected for joint detail ²		×	AISC 360-16	
е	. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		×	N5.6-1	17 <i>0</i> 5.2.1
f.	Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used		×		
g	. Protected storage provided for bolts, nuts, washers and other fastener components		×		
2. In	spection tasks during bolting:				
а	. Fastener assemblies placed in all holes, and washers and nuts are positioned as required ²		X		
Ь	. Joint brought to the snug-tight condition prior to the pretensioning operation ²		X	AISC 360-16	17 <i>0</i> 5.2.1
C	. Fastener component not turned by the wrench prevented from rotating ²		×	N5.6-2	1703.2.1
d	. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges		×		
3. In	spection tasks after bolting:				
а	. Document acceptance or rejection of bolted connections	×		AISC 360-16 N5.6-3	17 <i>0</i> 5.2.1

- 1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI).

 The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 assigned to the Quality Control Inspector (QCI).
- 2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

	INSPECTION	FREQUENCY	REFERENCED	IBC
SPECIAL INSPECTION TYPE	CONTINUOUS	PERIODIC	STANDARD	REFERENCE
Inspect reinforcement and verify placement		X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
3. Inspect anchors cast in concrete		×	ACI 318: 17.8.2	-
 Inspect anchors post-installed in hardened concrete members 				
 Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads 	×		ACI 318: 17.8.2.4	
 b. Mechanical anchors and adhesive anchors not defined in 4.a 		×	ACI 318: 17.8.2	
5. Verifying use of required design mix		X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.: 1908.2, 1908.
 Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete 	×		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. Inspect concrete placement for proper application techniques	×		ACI 318: 26.5	
8. Verify maintenance of specified curing temperature and techniques		X	ACI 318: 26.5.3-26.5.5	1908.9
 Inspect formwork for shape, location and dimensions of the concrete members being formed 		×	ACI 318: 26.10.1(b)	

REQUIRED SPECIAL INSPECTIONS OF SOILS (IBC Table 1705.6)					
CRECIAL INCRECTION TYPE	INSPECTION	FREQUENCY			
SPECIAL INSPECTION TYPE	CONTINUOUS	PERIODIC			
 Verify materials below shallow foundations are adequate to achieve the design bearing capacity 		X			
2. Verify excavations are extended to proper depth and have reached proper material		X			
3. Perform classification and testing of compacted fill materials		X			
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	×				
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly		×			







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MAXWELL SUD OFFICE BUILDIN

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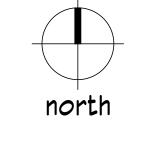
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DATE: 05/19/23

SPECIAL INSPECTIONS

S0.3

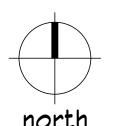
- 1. A PARTITION LIVE LOAD OF 15 PSF HAS BEEN ADDED TO ALL UNIFORM LOADS THAT DO NOT EXCEED 80 PSF.
- 2. ALL FLOORS HAVE ADDITIONALLY BEEN DESIGNED FOR SUPERIMPOSED DEAD (COLLATERAL) LOAD OF X PSF.
- 3. LIVE LOADS DENOTED WITH AN ASTERISK (*) HAVE NOT BEEN REDUCED. SEE STRUCTURAL NOTES "DESIGN LOADS" FOR INFORMATION REGARDING LIVE LOAD REDUCTION.
- 4. SEE STRUCTURAL NOTES "DESIGN LOADS" FOR INFORMATION REGARDING CONCENTRATED LOADS AT EACH UNIFORM LOAD. THESE LOADS ARE NOT
- CONCURRENT WITH THE UNIFORM LOAD. 5. SEE STRUCTURAL NOTES "DESIGN LOAD" FOR ADDITIONAL INFORMATION ON WHEEL LIVE LOADS. THESE LOADS ARE CONCURRENT WITH A 20 PSF CONSTRUCTION LIVE LOAD.



H

			MIND	PRESSURES L	EGEND (PSF)			
		HATCH	ZONE	LOCATION	TF	TRIBUTARY AREA		
		PATTERN			10 SF	100 SF	500 SF	
			1	FIELD	+X/-X	+X/-X	-	
			2	PERIMETER	+X/-X	+X/-X	-	
	MAIN ROOF		3	CORNER	+X/-X	+X/-X	-	
			2H	OVERHANG PERIMETER	+X/-X	+X/-X	-	
			ЗH	OVERHANG CORNER	+X/-X	+X/-X	-	
			2'	OVERHANG PERIMETER	+X/-X	+X/-X	+X/-X	
			3'	OVERHANG CORNER	+X/-X	+X/-X	+X/-X	
	MALLS		4	INTERIOR	+X/-X	+X/-X	+X/-X	
	₹		5	EDGE	+X/-X	+X/-X	+X/-X	
	ARAPET	MINDM	IARD	+X/-X				
	PAR	LEEM	ARD	+X/-X				

- INDICATED VALUE BY 0.60. SEE STRUCTURAL NOTES FOR ADDITIONAL
- INFORMATION.
- (SUCTION). 4. PRESSURES AREA FOR GROSS UPLIFT CONDITIONS. DEAD LOADS AND LOAD COMBINATIONS ARE LISTED IN THE STRUCTURAL NOTES. JOIST MANUFACTURER SHALL CALCULATE NET UPLIFT PRESSURES WITH THIS
- PROVIDED INFORMATION MINUS 3 PSF. 5. "a" = SEE PLAN 6. ALL AWNING OR SIMILAR OVERHANGING CANOPIES AND SHADE STRUCTURES SHALL BE DESIGNED FOR THE OVERHANG PRESSURES (ZONE
- 2H AND ZONE 3H) UNLESS NOTED OTHERWISE. 7. PRESSURES FOR PARAPETS SHALL BE DESIGNED USING BOTH WINDWARD







LIVE/WIND

LOAD PLANS

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BUI

ARCHITECTS

13300 OLD BLANCO RD SUITE 175 SAN ANTONIO, TEXAS 79216

TEL: (210) 349-7950 FAX: (210) 366-0847

AND LEEWARD PRESSURES ADDED TOGETHER. REVIEW **DOCUMENTS** (NOT INTENDED FOR BIDDING, PERMIT OR CONSTRUCTION PURPOSES) JOSEPH H. HUIZAR TEXAS REGISTRATION No: 87226 DATE: 05/19/23 IES JOB NO: 1223216 TBPE FIRM F-432

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FOUNDATION PLAN

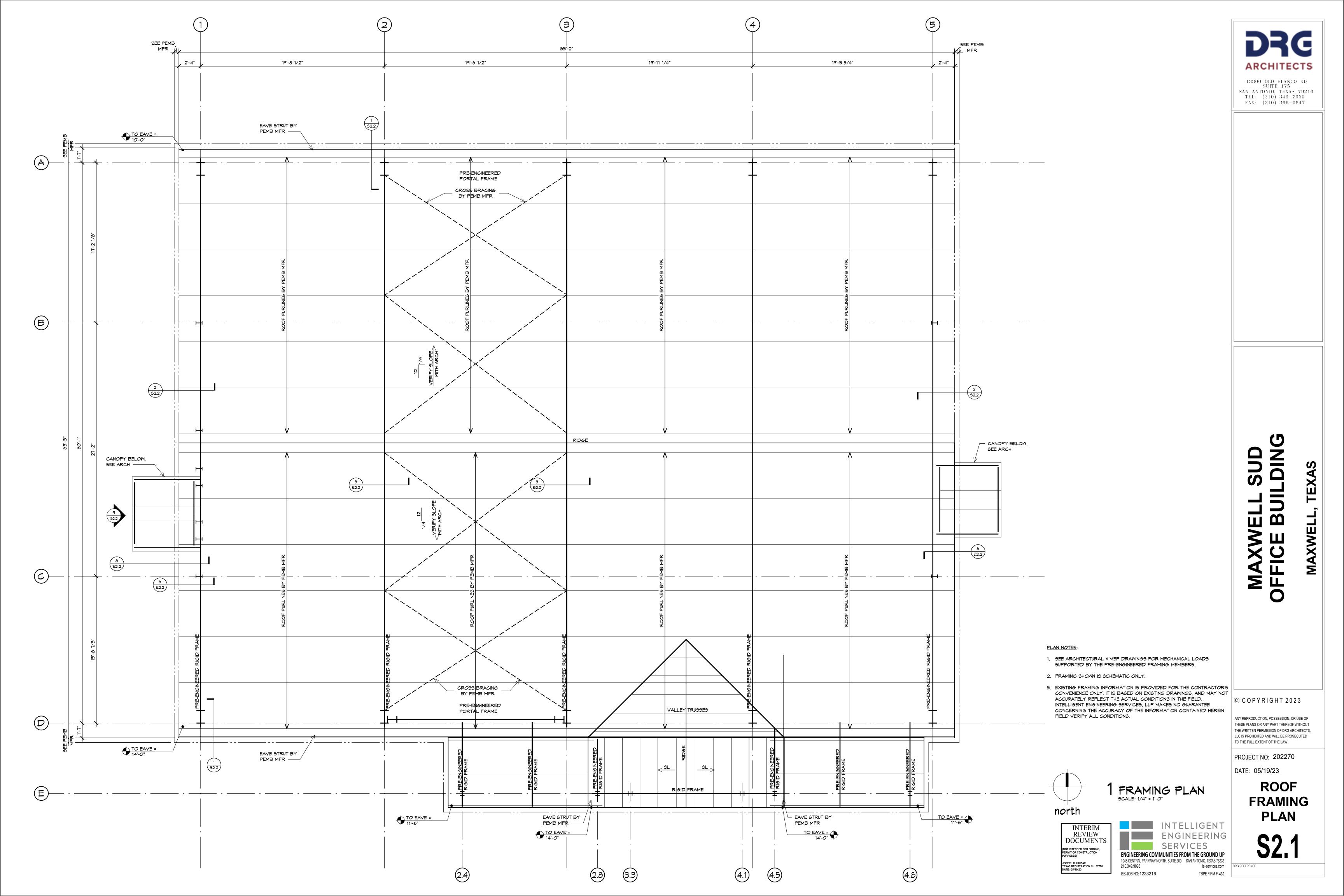
ENGINEERING COMMUNITIES FROM THE GROUND UP 1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232

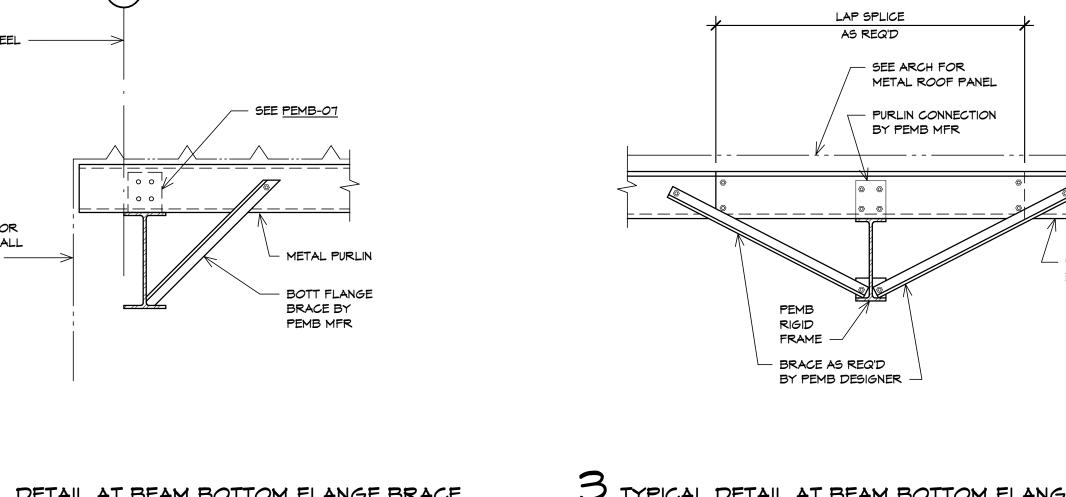
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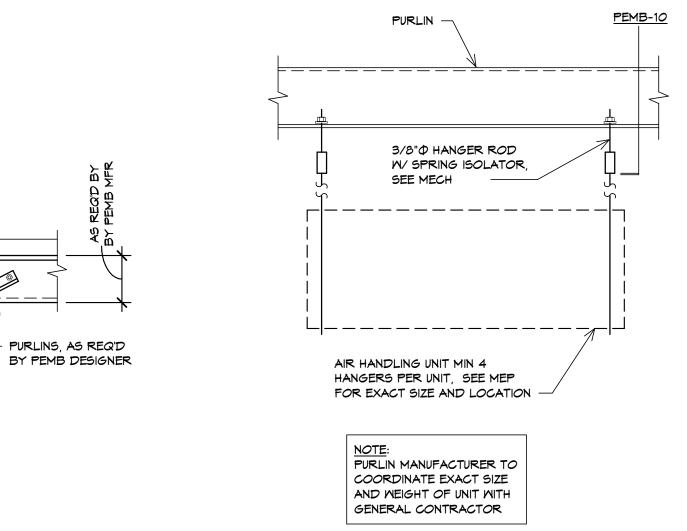
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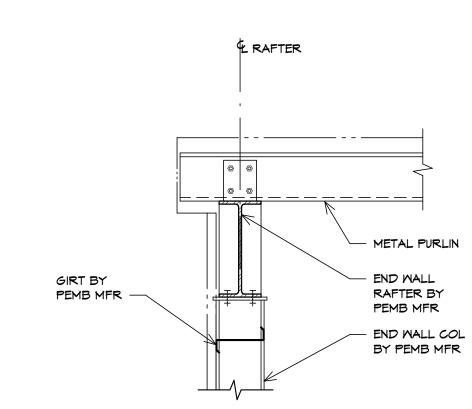
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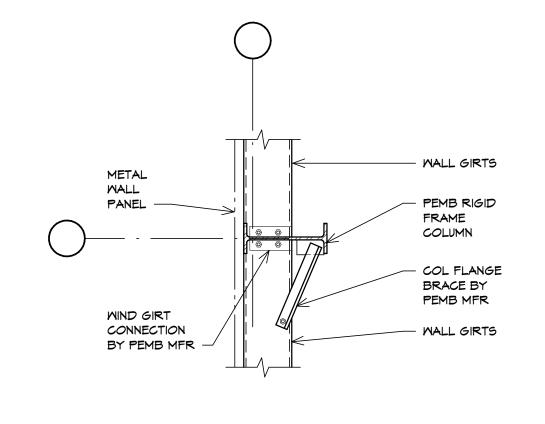


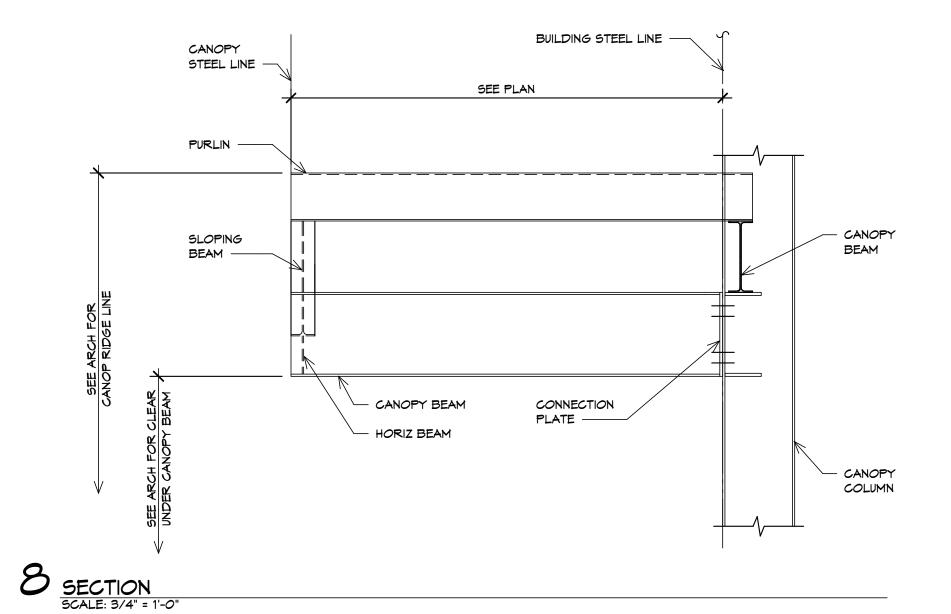




3 TYPICAL DETAIL AT BEAM BOTTOM FLANGE BRACE NO SCALE 4 TYPIAL DETAIL AT PURLIN SUPPORTED EQUIPMENT

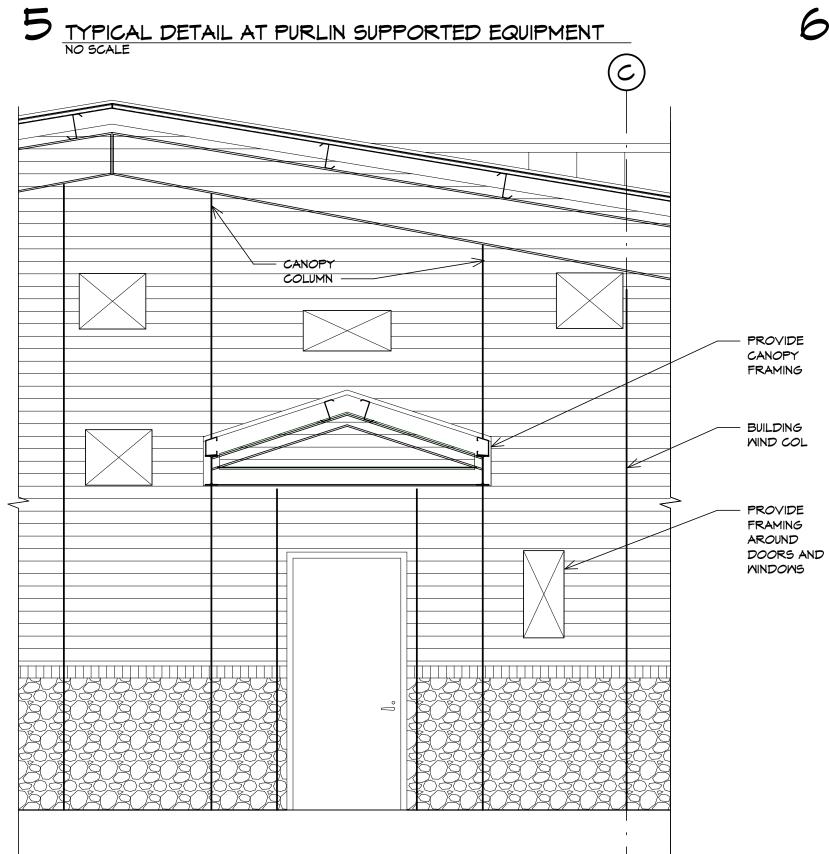






6 TYPICAL ENDWALL SECTION NO SCALE





THE TOTAL HANGER LOAD SHALL NOT EXCEED THE DESIGN COLLATERAL LOAD FOR THE

5' (PURLIN SPACING) x 5' (HANGER SPACING) x 3 PSF (COLLATERAL LOAD) = 75 LBS

HANGING A/C DUCT FROM PURLIN

BUILDING. A SAMPLE CALCULATION IS SHOWN BELOW.

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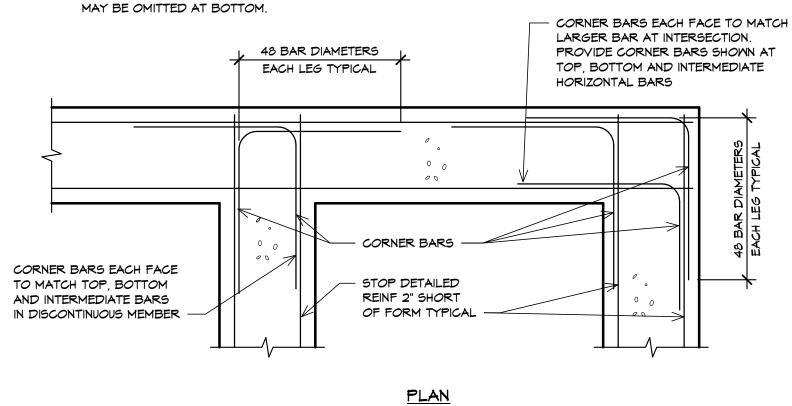
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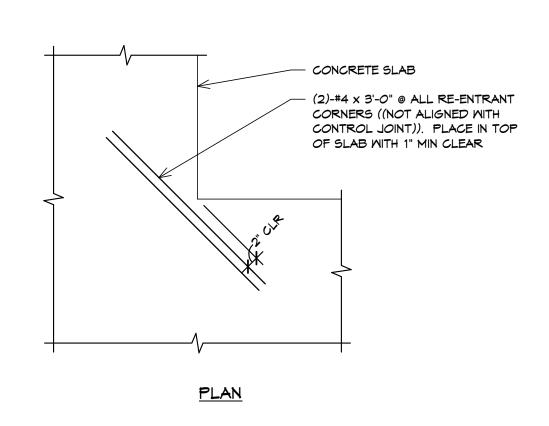
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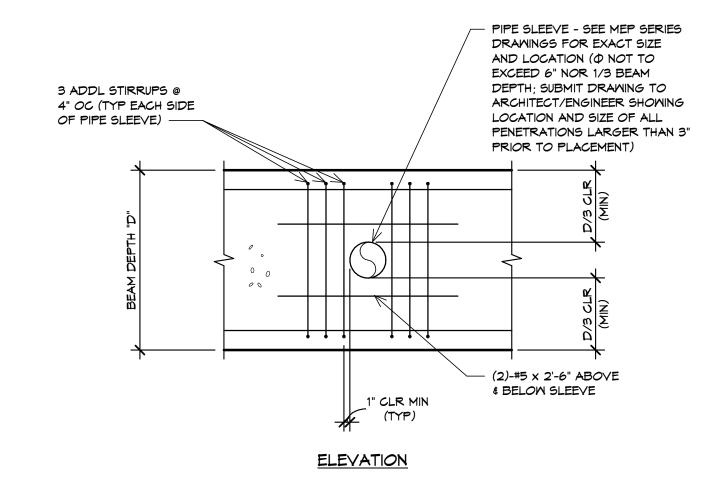
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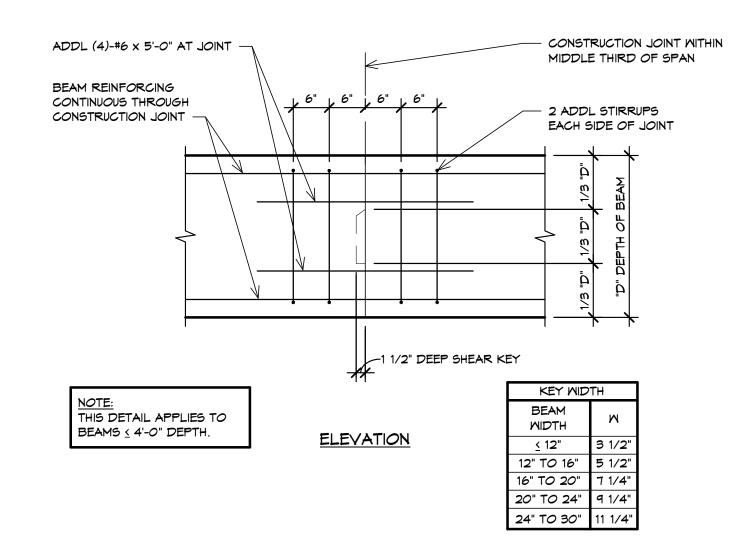
STEEL SECTIONS & DETAILS

- 1. MATCH SIZE, LOCATION AND NUMBER OF HORIZONTAL BEAM AND WALL BARS, EXCEPT THAT WHERE THERE ARE MORE THAN 2 TOP OR BOTTOM BARS, ONLY THE INSIDE AND OUTSIDE BARS MUST BE MATCHED.
- WHERE 90 DEGREE HOOKS ARE PROVIDED FOR TOP BARS CORNER BARS MAY BE OMITTED AT TOP. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR BOTTOM BARS, CORNER BARS







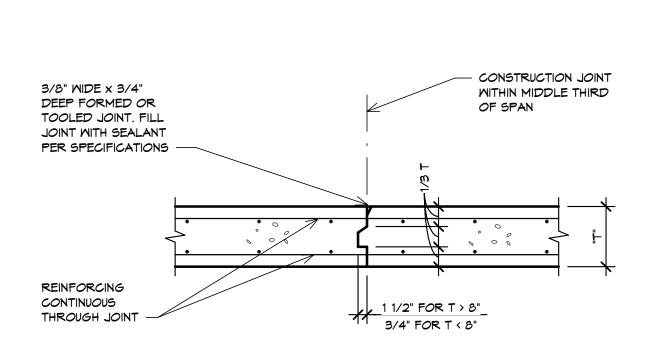


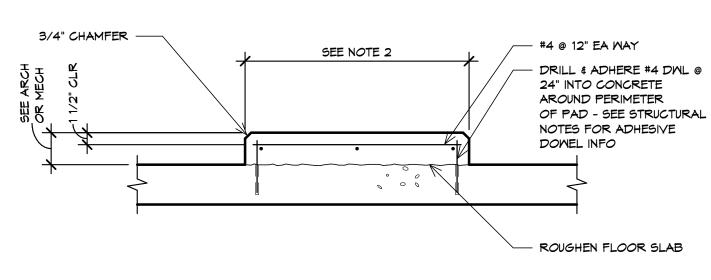
TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL

2 TYPICAL SLAB RE-ENTRANT CORNER REINFORCING DETAIL

3 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL NO SCALE

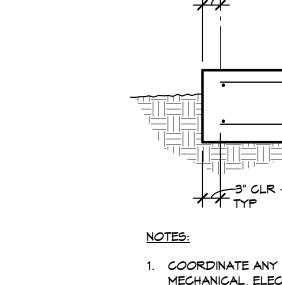
TYPICAL CONCRETE BEAM CONSTRUCTION JOINT DETAIL NO SCALE





1. EQUIPMENT PADS TO BE PROVIDED UNDER EQUIPMENT SUPPORTED ON

2. COORDINATE MECHANICAL PAD SIZE, LOCATION AND EMBEDDED ITEMS WITH



- COORDINATE ANY EMBEDDED ITEMS IN PAD W/ MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS.
- VERIFY PAD DIMENSIONS WITH UNIT MANUFACTURER
 PRIOR TO CONSTRUCTION.
- PAD SHALL BE PLACED ON UNDISTURBED EXISTING SOIL OR COMPACTED FILL.
- 4. SEE MEP, SITE AND/OR CIVIL DRAWINGS FOR PAD LOCATION.

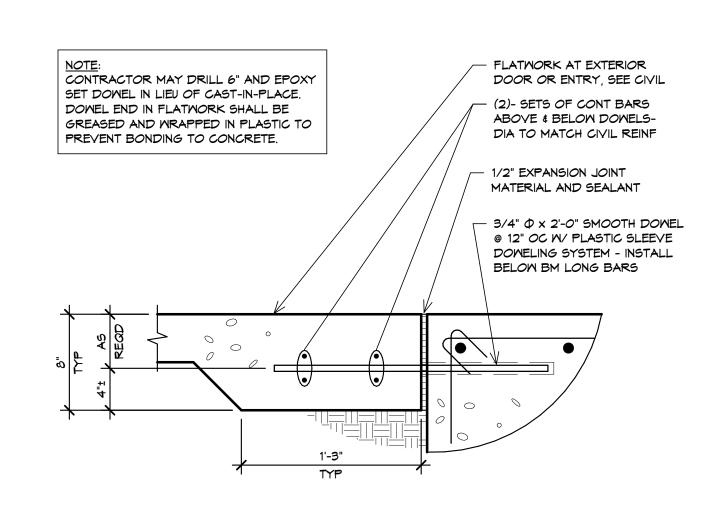
5 TYPICAL STRUCTURAL SLAB CONSTRUCTION JOINT DETAIL NO SCALE

6 TYPICAL MECHANICAL EQUIPMENT PAD DETAIL NO SCALE

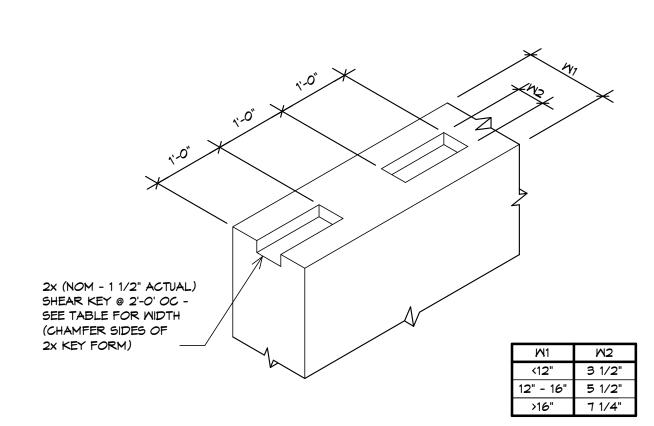
SLAB-ON-GRADE OR ELEVATED SLABS.

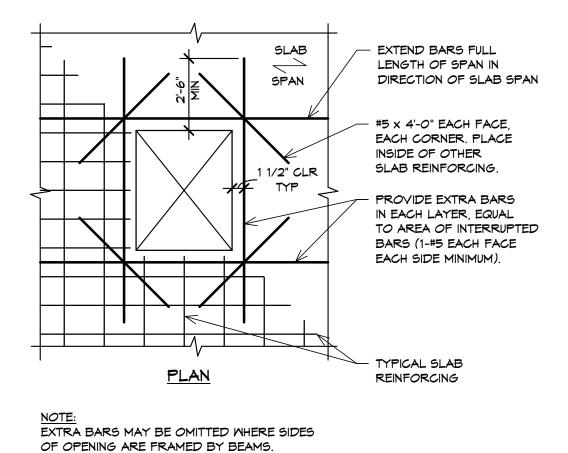
MEP DRAWINGS AND EQUIPMENT MANUFACTURER.

7 CONDENSER UNIT PAD DETAIL NO SCALE



8 TYPICAL FLATWORK AT EXTERIOR DOORS AND ENTRIES DETAIL





	Ld TENSION DEVELOPMENT LENGTH (GRADE 60 BARS - NORMAL WEIGHT CONCRETE)							
BAR	f'c = 3	000 psi	f'c = 40	000 psi	f'c = 5	000 psi		
SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BAR		
#3	1'-10"	1'-5"	1'-7"	1'-3"	1'-5"	1'-1"		
#4	2'-5"	1'-10"	2'-1"	1'-7"	1'-11"	1'-5"		
#5	3'-0"	2'-4"	2'-7"	2'-0"	2'-4"	1'-10"		
#6	3'-7"	2'-9"	3'-1"	2'-5"	2'-10"	2'-2"		
#7	5'-3"	4'-0"	4'-6"	3'-6"	4'-1"	3'-2"		
#8	6'-0"	4'-7"	5'-2"	4'-0"	4'-8"	3'-7"		
#9	6'-9"	5'-2"	5'-10"	4'-6"	5'-3"	4'-0"		
#10	7'-7"	5'-10"	6'-7"	5'-1"	5'-11"	4'-6"		
#11	8'-5"	6'-6"	7'-3"	5'-7"	6'-6"	5'-0"		

	BASIC TENSION LAP SPLICES-CLASS B (GRADE 60 BARS - NORMAL MEIGHT CONCRETE)						
BAR	f'c = 3	000 psi	f'c = 40	000 psi	f'c = 5	000 psi	
SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	2'-4"	1'-10"	2'-1"	1'-7"	1'-10"	1'-5"	
#4	3'-2"	2'-5"	2'-9"	2'-1"	2'-5"	1'-11"	
#5	3'-11"	3'-0"	3'-5"	2'-7"	3'-0"	2'-4"	
#6	4'-8"	3'-7"	4'-1"	3'-1"	3'-8"	2'-10"	
#7	6'-9"	5'-3"	5'-11"	4'-6"	5'-3"	4'-1"	
#8	7'-9"	6'-0"	6'-9"	5'-2"	6'-0"	4'-8"	
#9	8'-9"	6'-9"	7'-7"	5'-10"	6'-9"	5'-3"	
#10	9'-10"	7'-7"	8'-6"	6'-7"	7'-8"	5'-11"	
#11	10'-11"	8'-5"	9'-6"	7'-3"	8'-6"	6'-6"	

CONDENSER UNIT - SEE MECH DRAWINGS AND SPECIFICATIONS

- EXTERIOR GRADE - SEE

SITE/CIVIL DRAWINGS

#4 @ 12" EA WAY

TOP & BOTTOM

Ldh HOOK DEVELOPMENT LENGTH (GRADE 60 BARS - NORMAL WEIGHT CONCRETE)					
BAR SIZE	f'c = 3000 psi	f'c = 4000 psi	f'c = 5000 psi		
#3	0'-9"	0'-8"	0'-7"		
#4	<i>O</i> '-11"	0'-10"	0'-9"		
#5	1'-2"	1'-0"	<i>O</i> '-11"		
#6	1'-5"	1'-3"	1'-1"		
#7	1'-8"	1'-5"	1'-3"		
#8	1'-10"	1'-7"	1'-5"		
#9	2'-1"	1'-10"	1'-8"		
#10	2'-4"	2'-1"	1'-10"		
#11	2'-7"	2'-3"	2'-0"		

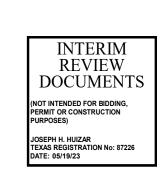
NOTES:

- 1. BAR SPACING NOT LESS THAN 2 BAR DIAMETERS, CLEAR COVER NOT LESS THAN 1 BAR DIAMETER.
- 2. FOR CONCRETE STRENGTHS (F'C) NOT SPECIFICALLY LISTED IN SCHEDULES ABOVE, USE CLOSEST LOWER CONCRETE STRENGTH VALUE.
- 3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR OR SPLICE.

7 TYPICAL SHEAR WALL KEY AT HORIZONTAL JOINT DETAIL 10

TYPICAL REINFORCEMENT AT CONCRETE SLAB OPENING (3'-0" DETAIL

TYPICAL REINFORCEMENT DEVELOPMENT LENGTHS & LAP SPLICES SCHEDULES (GRADE 60 REINFORCEMENT)
NO SCALE





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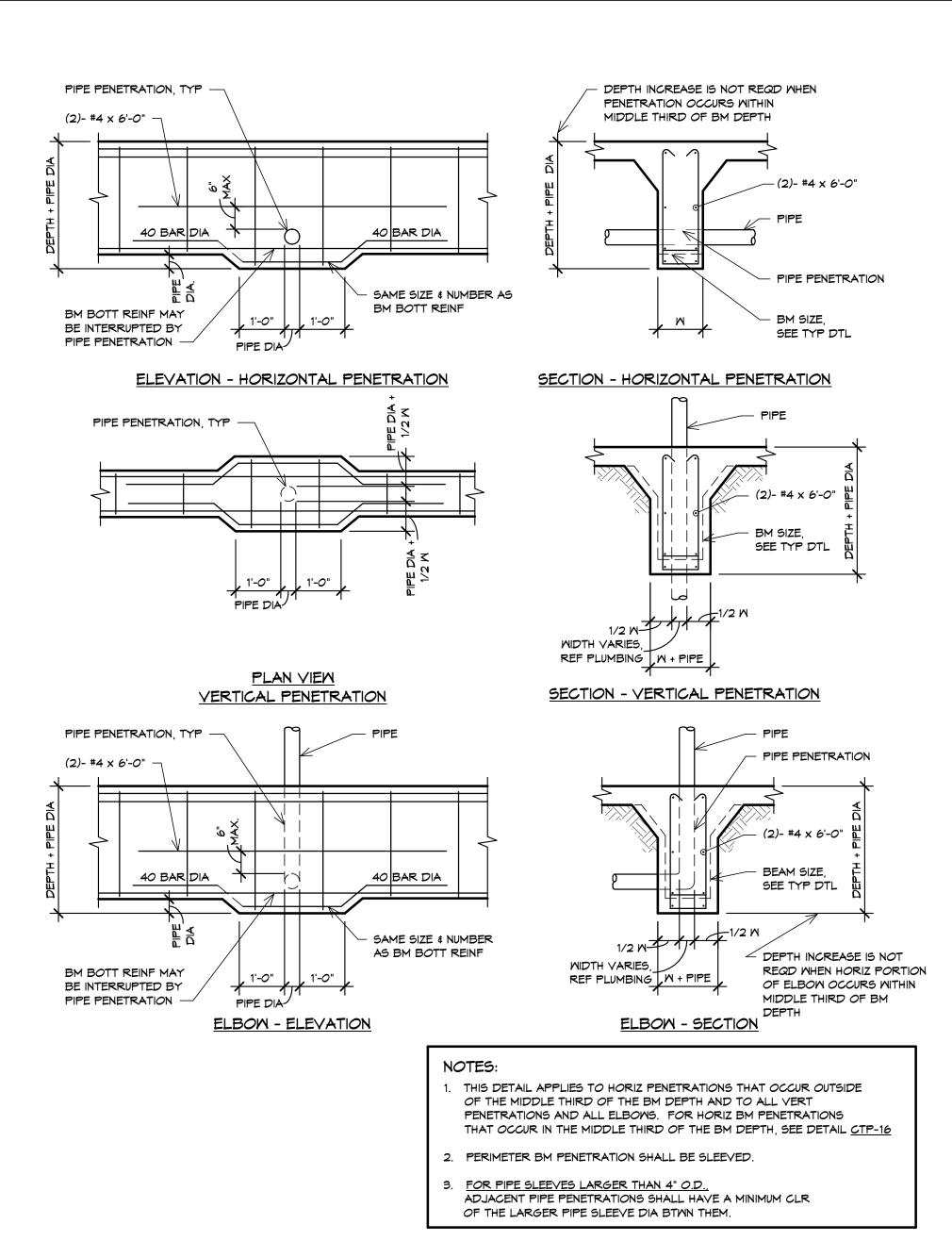
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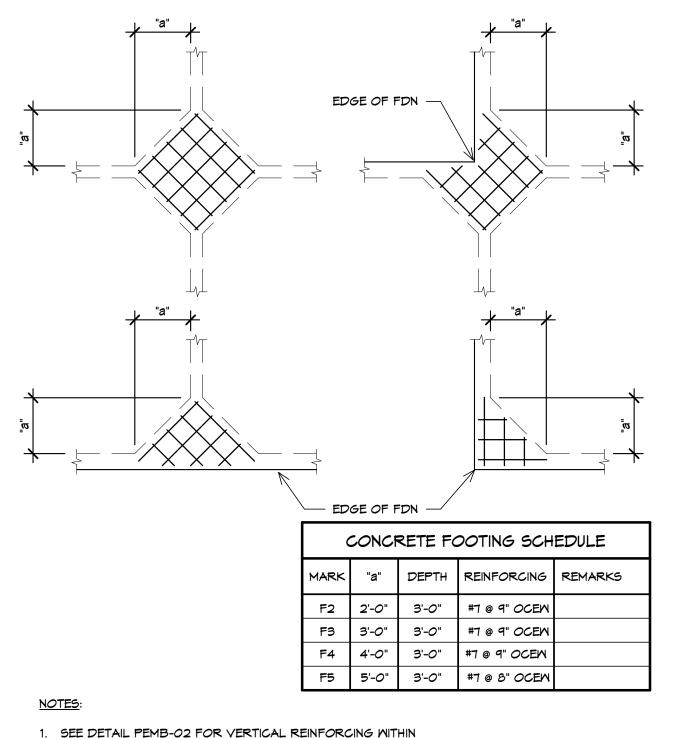
DATE: 05/19/23

CONCRETE TYPICAL DETAILS

S4.0

G REFERENCE





- SEE DETAIL <u>PEMB-02</u> FOR VERTICAL REINFORCING WITHIN CONCRETE FOOTING.
- 2. CONCRETE FOOTING DEPTH SHALL MATCH DEEPEST ADJACENT CONCRETE BEAM
- 3. COLUMNS OMITTED FOR CLARITY, SEE FOUNDATION PLAN.

2 TYPICAL CONCRETE FOOTING SCHEDULE NO SCALE



MAXWELL SUD OFFICE BUILDING

ARCHITECTS

13300 OLD BLANCO RD SUITE 175 SAN ANTONIO, TEXAS 79216

TEL: (210) 349-7950 FAX: (210) 366-0847

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CONCRETE TYPICAL DETAILS

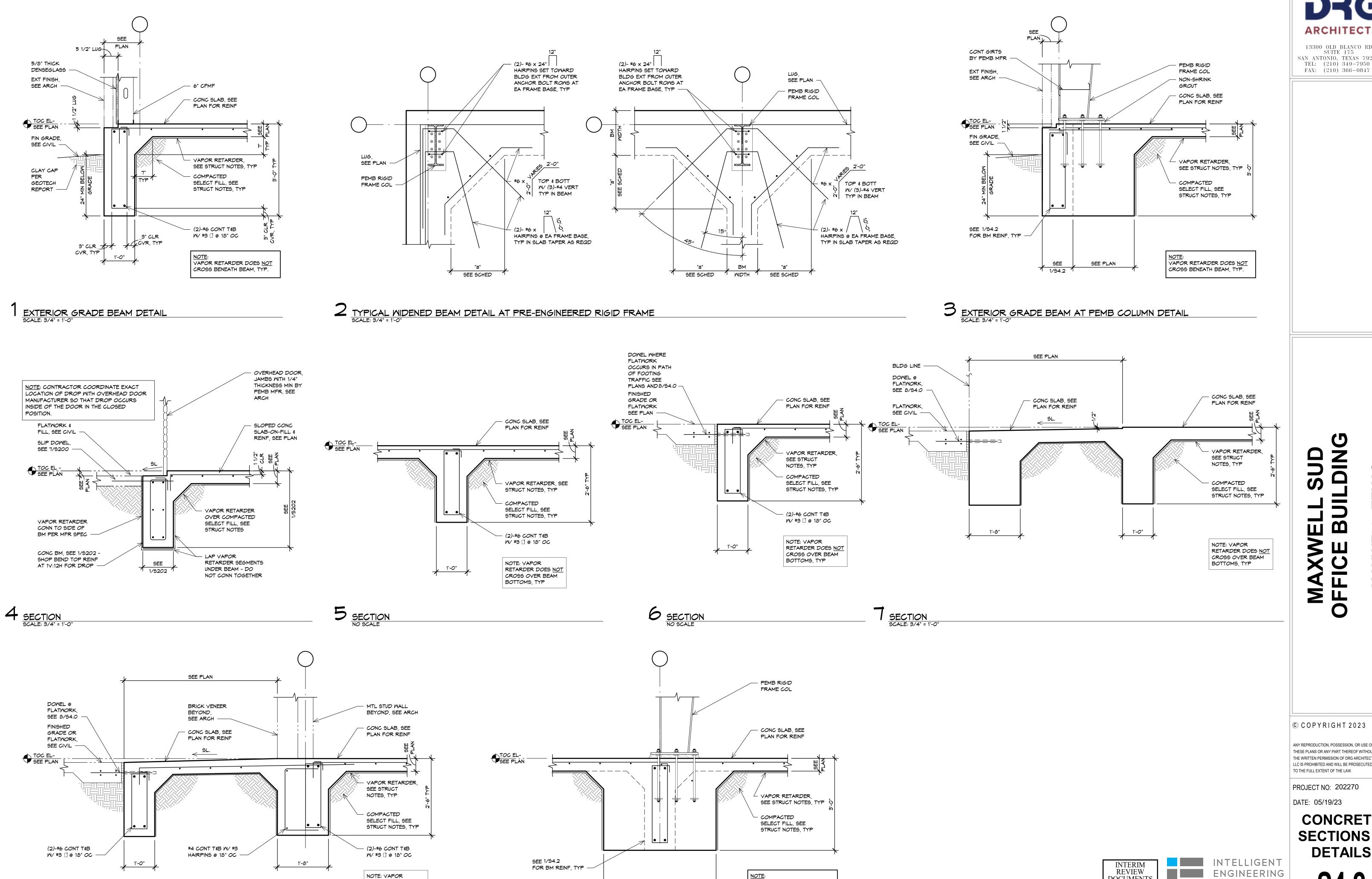
S4.1

INTERIM
REVIEW
DOCUMENTS

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PERMIT OR CONSTRUCTION
PURPOSES

JOSEPH H. HUIZAR
TEXAS REGISTRATION No: 87226
DATE: 05/19/23





SEE PLAN

RETARDER DOES NOT

CROSS OVER BEAM

BOTTOMS, TYP

8 SECTION NO SCALE

VAPOR RETARDER DOES NOT

CROSS BENEATH BEAM, TYP.

ARCHITECTS 13300 OLD BLANCO RD SUITE 175 SAN ANTONIO, TEXAS 79216 TEL: (210) 349-7950

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PROJECT NO: 202270

DATE: 05/19/23

DOCUMENTS

JOSEPH H. HUIZAR TEXAS REGISTRATION No: 87226 DATE: 05/19/23

ENGINEERING COMMUNITIES FROM THE GROUND UP

1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232

ie-services.com

TBPE FIRM F-432

210.349.9098

IES JOB NO: 1223216

CONCRETE **SECTIONS & DETAILS**

HVAC THE WORK INCLUDES PROVIDING NEW DUCTWORK, DIFFUSERS, GRILLES, INSULATION, CONTROLS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM THE WORK INCLUDES BUT IS NOT NECESSARY LIMITED TO THE FOLLOWING:

- * INSTALL ROOFTOP UNITS AND ROOF CAPS.
- INSTALL EXHAUST FANS SUPPLY & RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS,
- FILTERS, AND DAMPERS. TEMPERATURE CONTROL SYSTEM INCLUDING LOW-VOLTAGE WIRING AND
- CONDUIT. DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN. ROOF CURBS, ROOFING AND FLASHING OF ROOF PENETRATIONS FOR
- EQUIPMENT NOTED. FANS AND MAKE-UP AIR UNITS.

SHOP DRAWINGS: SUBMIT 6 SETS OF EQUIPMENT/DUCT SUBMITTALS TO ARCHITECT/ENGINEER FOR APPROVAL.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION, SUCH AS DUCTWORK, EXHAUST FANS, SUPPLY AND RETURN DIFFUSERS, ETC. SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR.

RECORD DOCUMENTS: PROVIDE AT THE TIME OF REQUEST FOR FINAL PAYMENT THE FOLLOWINGS DOCUMENTS:

1- LETTER OF GUARANTEE FROM THE CONTRACTOR. 2- MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON ALL ITEMS OF EQUIPMENT.

3- MANUFACTURER'S GUARANTEES AND WARRANTIES.

INSTRUCTIONS TO THE OWNER: THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT. THE CONTRACTOR SHALL FURNISH TO THE OWNER ALL PAMPHLETS AND OTHER LITERATURE FURNISHED BY THE MANUFACTURER AND EXPLAIN THE PROPER OPERATING AND MAINTENANCE PROCEDURES.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE A ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S

REPRESENTATIVE. EXHAUST FANS: FURNISH AND INSTALL EXHAUST FANS IN THE LOCATION AND OF THE SIZE AND CAPACITY SHOWN ON THE DRAWINGS. EXHAUST FANS SHALL BE CEILING CABINET IN-LINE EXHAUST FANS WITH PLASTIC HOUSING AND GRILL. SUPPORT FAN WITH VIBRATION ISOLATORS FROM ROOF STRUCTURE NOT FROM THE CEILING. PROVIDE TERMINATION CAP AS INDICATED ON THE DOCUMENTS. FANS SHALL BE DIRECT DRIVE WITH A SPEED CONTROL RELAY TO BALANCE THE FAN AT THE CFM'S SCHEDULED. FAN TO BE EQUIPED WITH INTERGRAL BACKDRAFT DAMPER AND SWITCHED LOCALLY AS INDICATED ON THE DOCUMENTS. APPROVED MANUFACTURERS ARE GREENHECK, COOK, AND PENN.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR UNLINED SHEET METAL DUCTS.

SHEET METAL DUCTWORK: SHEETMETAL SHALL BE FABRICATED AND INSTALLED TO ASHRAE AND SMACNA STANDARDS. SHEETMETAL SHALL BE G—90 GALVANIZED SHEET STEEL OF LOCK-FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOORS SHALL BE AIRTIGHT WITH APPROVED WEATHERPROOF CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 33 DEGREES.

TRAPEZE DUCT HANGERS: MINIMUM 1" X 2" X 1" X 18 GAGE CHANNELS WITH 1" X 18 GAGE STRAPS TO STRUCTURAL SUPPORT ABOVE.

ALL SUPPLY AND RETURN DUCTWORK SHALL HAVE THE FIRST TEN (10) FEET INTERNALLY LINED. THE REMAINING DUCT SHALL BE EXTERNALLY WRAPPED.

DUCT WRAP/ASJ INSULATION: (ON ALL SUPPLY, RETURN, AND ROUND RIGID SHEETMETAL DUCTWORK): PROVIDE 2" THICK FIBERGLASS ASJ DUCTWRAP WITH VAPOR SEAL ON ALL SHEETMETAL DUCT. INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND LOCAL

ALL DUCT INDICATED AS LINED SHALL BE INTERNALLY INSULATED WITH OWENS CORNING FIBERGLASS AEROFLEX DUCT WRAP, 2" THICK, TYPE B-150 INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND AND LOCAL AMENDMENTS.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1-1/2" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER / VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50. AND SHALL BE RATED FOR 2" W.G. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. PROVIDE METAL ADJUSTABLE CLAMPING DEVICES, SCREW OPERATED. USE TWISTLOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. DO NOT EXCEED 6 FEET IN LENGTH. FLEXMASTER 8M OR APPROVED EQUAL.

CEILING DIFFUSERS / RETURNS: INSTALL SUPPLY & RETURN DIFFUSERS/REGISTERS WITH DAMPER I SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

INSULATE REFRIGERANT SUCTION LINES WITH 1-1/2" CLOSED CELL FOAM PIPE INSULATION WITH SELF-ADHESIVE SEAMS. INSULATION SHALL BE EQUIVALENT TO ARMACELL AP ARMAFLEX.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

AUTOMATIC TEMPERATURE CONTROL: PROVIDE FOR EACH HVAC UNIT, LOW VOLTAGE SEVEN DAY PROGRAMABLE THERMOSTAT, TRANE, CARRIER, OR HONEYWELL T7300. UNIT SHALL INCORPORATE TWO STAGE HEAT/COOL AS APPLICABLE WITH AN AUTO CHANGEOVER FEATURE. HEATING AND COOLING SET POINTS SHALL BE OPERATOR ADJUSTABLE (THERMOSTATS BY UNIT SUPPLIER). THERMOSTAT SHALL HAVE NON-VOLATILE MEMORY WITH MINIMUM 24 HOUR MEMORY RETAINTION, 5 DEGREE F DEADBAND, AND LCD DISPLAY. WIRING SHALL COMPLY WITH SECTION 16000 REQUIREMENTS. PROVIDE RELAYS AS REQUIRED FOR UNIT INTERFACE. PROVIDE ALL TEMPERATURE CONTROL WIRING FOR ALL HVAC SYSTEMS, INCLUDING THERMOSTATS, SMOKE DETECTOR INTERLOCK ETC. INSTALL THERMOSTAT SAME HEIGHT AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

CONTRACTOR TO PROVIDE TEST AND BALANCE NEBB CERTIFIED AIR BALANCE BY INDEPENDENT THIRD PARTY CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL HAVE ALL EQUIPMENT STARTED, ADJUSTED AND TESTED PRIOR TO BALANCING. KITCHEN HOOD AND ANY ASSOCIATED FANS SHALL BE INCLUDED IN TEST AND BALANCE. MECHANICAL CONTRACTOR SHALL ALSO HAVE THEIR TECHNICIAN ON SITE DURING BALANCE TO ADJUST OR CORRECT EQUIPMENT OPERATION DURING BALANCE.

GENERAL ROOF PLAN NOTES

- CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
- 2. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIF TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
- 3. VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- 4. ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
- 5. ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR EQUAL BY GOULD
- 6. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
- REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC
- 8. ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON- REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 9. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

GENERAL ENERGY NOTES:

THERMOSTATIC CONTROLS MUST HAVE A 5deg DEADBAND OR HAVE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING.

PROVIDE AUTOMATIC CONTROLS: SETBACK TO 55degF (HEAT) AND 85degF (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP IN THE EVENT OF A POWER LOSS.

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINUOUS OPERATION OR SYSTEM WITH AN FLOW RATE LESS THAN 3,000 CFM; SYSTEMS WITH READILY ACCESSIBLE MANUAL DAMPERS; OR RESTRICTED BY HEALTH AND

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BELISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT OF ANY METAL DUCTS.

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE INSULATION (inch)			MINIMUM DUCT INSULATION (R)
	NORMINAL PIPE DIA.		
FLUID	≤ 1.5"	> 1.5"	UNCONDITIONED SPACE ≥ 6
STEAM	1-1/2	3-1/2	OUTSIDE BLDG. ENVELOPE ≥ 8
HOT WATER	1	1-1/2	EXCEPTIONS:
CHILL WATER or REFRIGERANT	1	1	1. WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F.

SYSTEMS START-UP REQUIREMENTS

CONTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK (EOC). EOC TO PROVIDE VERIFICATION AND DOCUMENTATION OF EQUIPMENT CONDITION, INTEGRITY OF INSTALLATION AND OPERATIONAL PERFORMANCE WITH REGARD TO THE SPECIFICATIONS. IT SHALL ALSO INCLUDE ALL ASSOCIATED COMPONENTS PROVIDED BY MANUFACTURER. THE FOLLOWING EQUIPMENT AND INSTALLATION INTEGRITY CHECKS SHALL BE PERFORMED AS PART OF AN EOC. ANY INSTALLER DEFECTS SHALL BE NOTED AND ANY FACTORY DEFECTS SHALL BE REPAIRED. A REPORT FOR EACH UNIT ALONG WITH A SUMMARY REPORT FOR THE JOB SITE WILL BE PROVIDED TO THE OWNER AND ENGINEER UPON COMPLETION.

JOB SITE REQUIREMENTS PRIOR TO EOC

- INSTALLATION OF UNIT PER MECHANICAL DRAWINGS, SPECIFICATIONS AND THE UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- UNIT MUST BE STARTED UP AND RUNNING 24 HOURS PRIOR TO EOC. UNIT'S RETURN AIR FILTERS MUST BE NEW AND AT LEAST EQUIVALENT TO FACTORY PROVIDED FILTERS.
- FIELD INSTALLED HOODS ACCESSORIES MUST BE INSTALLED AND OPERATIONAL.

UNIT INSTALLATION CHECK:

- RECORD UNIT #, UNIT C/N, UNIT MODEL #, AND UNIT SERIAL #. CHECK CURB INSTALLATION INCLUDING VIBRATION ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PER OWNER SPECIFICATIONS AND THE UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CHECK UNIT CLEARANCES AND VERIFY INSTALLATION PER THE UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CHECK DOOR ALIGNMENT AND ADJUST AS NECESSARY.
- CHECK UNIT INSTALLATION IS SECURE AND CLEAN.
- CHECK INSTALLATION OF CONDENSATE TRAP AND DRAIN LINES PER THE PROJECT SPECIFICATIONS, DRAWING DETAILS AND JNIT MANUFACTURER'S INSTALLATIÓN INSTRUCTION.
- CHECK AND NOTE INSTALLATION OF ANY ROOFTOP UNIT MANUFACTURER'S PROVIDED ACCESSORIES PER THE UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CHECK CLEANLINESS OF UNIT AND AREA AROUND IT. DISPOSE OF ANY DEBRIS FOUND. **ELECTRICAL SYSTEM CHECK:**
- CHECK AND RECORD INCOMING POWER SUPPLY. VERIFY PER THE UNIT MANUFACTURER'S
 - SPECIFICATIONS AND RECORD. VERIFY INSTALLATION AND PROPER SIZING OF
 - ELECTRICAL DISCONNECT OR CIRCUIT BREAKER NCLUDING WIRE SIZE. ELECTRICAL CONNECTIONS AND TIGHTEN AS

 - VERIFY INSTALLATION OF WIRING TO 120V CONVENIENCE OUTLET (IF APPLICABLE).
 - CHECK AND RECORD UNIT'S CONTROL TRANSFORMER(S) SECONDARY VOLTAGE. ADJUST PER THE UNIT MANUFACTURER'S SPECIFICATIONS.
- INTEGRATED MODULAR CONTROLLER CHECK:
 - VERIFY LED HEARTBEAT ON ALL THE UNIT MANUFACTURER'S PROVIDED CONTROL
 - RECORD HARDWARE AND SOFTWARE VERSIONS OF
 - ALL PROVIDED CONTROL BOARDS. VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SET FOR OWNER SPECIFICATIONS PER THE UNIT MANUAL INSTALLATION
 - INSTRUCTIONS.
 - VERIFY ALL THE UNIT MANUFACTURER'S PROVIDED TEMPERATURE SENSORS READINGS ARE
- SUPPLY FAN SYSTEM CHECK: CHECK BLOWER PULLEY SEY SCREWS FOR PROPER TORQUE. ADJUST AS NEEDED.
 - CHECK BELT TENSION AND ALIGNMENT AND ADJUST AS NEEDED.
 - START UNIT INDOOR BLOWER TO CHECK ROTATION CORRECT AS NEEDED. VERIFY AND DRAW IS PER THE UNIT MANUFACTURERS SPECIFICATIONS AND
- COOLING SYSTEM CHECK:

- LEAK CHECK ALL CIRCUITS.
- CHECK COIL INTEGRITY AND CLEANLINESS. CLEAN AS NEEDED.
- START EACH COMPRESSOR IN UNIT. CONFIRM PROPER ROTATION AND CORRECT AS NEEDED
- CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER THE UNIT MANUFACTURER'S SPECIFICATION. CORRECT CHARGE AS NEEDED.
- RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR COIL IN FULL COOLING (ALL COMPRESSOR RUNNING).
- COMMENTS:_.

6. GAS HEATING SYSTEM (WHEN SPECIFIED):

- RECORD FUEL TYPE.
 - CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY PER THE UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - CHECK INSTALLATION OF GAS UNIONS.
 - CHECK AND RECORD INCOMING GAS PRESSURE
 - CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE UNIT MANUFACTURER'S SPECIFICATIONS.
 - ADJUST AS NECESSARY.
- CHECK AND RECORD TEMPERATURE RISE ACROSS HEAT EXCHANGER IN FULL HEAT.
- G. CHECK OPERATION OF TEMPERATURE LIMIT.
- 7. ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED): CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS.

 - CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION PER THE UNIT MANUFACTURER'S SPECIFICATIONS.
 - CHECK OPERATION OF TEMPERATURE LIMIT.
 - CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER
- THERMOSTAT/UNIT CONTROLS SYSTEM CHECK:
 - RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER. VERIFY CLASS 2 CONTROLS WIRING INSTALLATION
 - TERMINAL BOARD OF UNIT.
 - VERIFY THAT REMOTE SENSORS ARE OPERATIONAL. VERIFY CO²SENSORS ARE OPERATIONAL.
 - PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.
 - PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.
 - PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.
- INDOOR AIR QUALITY SYSTEM CHECK:
- AND RECORD CONDITION AND TYPE OF OUTDOOR AIR ACCESSORY CHECK
- CHECK OPERATION OF ECONOMIZER OR MOTORIZED OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN
 - RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING (IF PROVIDED).
 - CHECK ECONOMIZER CONTROL BOARD SETTINGS PER OWNER SPECIFICATIONS. RECORD SETTING.
 - CHECK OPERATION OF BAROMETRIC RELIEF DAMPER IF INSTALLED.
- CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION
- 11. CONTROL CHECK: VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.
- VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE. 12. DUCT SYSTEMS AND AIR DISTRIBUTION
 - VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION, DUCTWORK, DIFFUSERS AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.
 - VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION.
- 13. EXHAUST FAN(S): VERIFY PROPER INSTALLATION/OPERATION AND FAN
- SIGNATURE: __

PLEASE FAX TO THE ITC UPON COMPLETION.

- PLEASE DATE AND INITIAL EACH ITEM AS VERIFIED. COMPLETED VERIFICATION CHECK LIST IS INCLUDED IN OUR REPORT TO THE OWNER AND MUST BE RETURNED PRIOR TO SCHEDULING ARRIVAL OF HVAC SYSTEMS TEST DATE.
- THE HVAC INSTALLER IS REQUIRED TO BE ON SITE FOR THE TWO (2) DAYS THAT THE ITC IS PERFORMING THEIR WORK IN ORDER TO CORRECT ANY PUNCH LIST ITEMS THAT MAY EXIST. SHOULD RETURN TRIPS BECOME NECESSARY AFTER THE INITIAL TWO (2) DAYS, ANY RETEST COST INCURRED BY THE ITC SHALL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ESTIMATED COST IS \$1,000.00 PER DAY.

_ END OF SECTION _

MECHANICAL NARRATIVE:

THE HVAC SYSTEM CONSIST OF AN EXISTING DX PACKAGE ROOFTOF UNITS WITH ELECTRIC HEAT AND ONE NEW SPLIT DX SYSTEM.

ALL UNITS SHALL BE PROVIDED WITH THEIR OWN WALL MOUNTED THERMOSTAT FOR CONTROLLING TEMPERATURE IN THE SPACE. THE NEW UNIT IS LESS THAN 55,000 BTUH AND DOES NOT REQUIRE AN ECONOMIZER SECTION. THE NEW UNIT SHALL BE CONSTANT VOLUME AN OPERATE BASED ON AN OCCUPIED SCHEDULE.

THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE RESTROOM

REFER TO THE MECHANICAL ENERGY NOTES FOR COMPLIANCE REQUIREMENTS WITH IECC 2015. SEE THE HVAC DESIGN CRITERIA ON THIS SHEET AS REQUIRED BY THE 2015 IECC.

THE MECHANICAL CONTRACTOR SHALL REVIEW THE SYSTEM COMMISSIONING SPECIFICATION ON THIS SHEET FOR REQUIREMENTS AND PARTICIPATION IN THE COMMISSIONING PROCESS. FAILURE TO COMPLY OR PARTICIPATE MAY INCUR ADDITIONAL COST TO THE CONTRACTOR.



FAX: (210) 366-0847

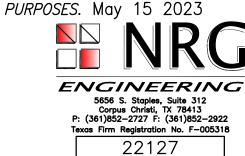
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PROJECT NO: 202270 DATE: **APRIL 2023**

TO THE FULL EXTENT OF THE LAW.

MECHANICAL SPECIFICATIONS

DRG REFERENCE



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PROJECT NO: 202270 DATE: APRIL 2023

PROGRESS SET

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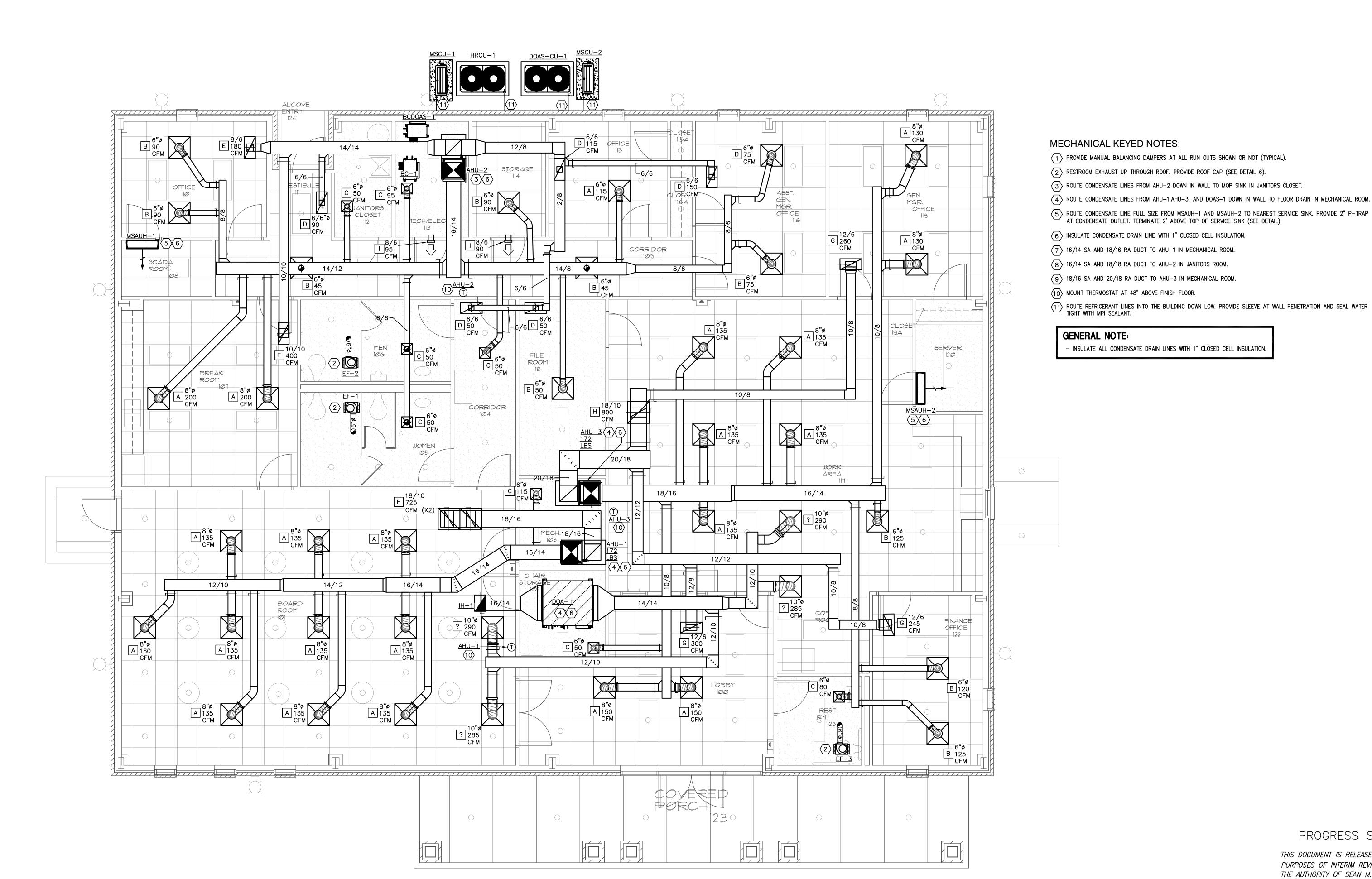
5656 S. Staples, Suite 312
Corpus Christi, TX 78413
P: (361)852-2727 F: (361)852-2922
Texas Firm Registration No. F-005318

FOR BIDDING OR CONSTRUCTION

PURPOSES. May 15 2023

MECHANICAL FLOOR PLAN

DRG REFERENCE



MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1' - 0"

HVAC GENERAL NOTES:

- A. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
- B. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
- C. INSULATE DUCTWORK AS FOLLOWS:
- 1. WRAP ALL INDOOR SUPPLY, RETURN, OUTSIDE AIR DUCT AND EXHAUST DUCT WITH THICK INSULATION WITH A THERMAL MIN. R-6 VALUE PER SPECIFICATIONS. THIS APPLIES TO CONCEALED DUCTWORK.
- 2. COVER ALL OUTDOOR SUPPLY AND RETURN DUCTS WITH 2" THICK RIGID BOARD INSULATION WITH A THERMAL MIN. R-8 VALUE PER SPECIFICATIONS. ALL OUTDOOR DUCTS SHALL HAVE ALL JOINTS AND SEAMS SEALED LIQUID TIGHT WITH A RCD #8, UL-181 MASTIC OR EQUAL. ALL JOINTS AND SEAMS ON THE RIGID INSULATION BOARD SHALL BE SEALED LIQUID TIGHT USING RCD #8, UL-181 MASTIC OR EQUAL. THEN ALL RIGID BOARD SHALL BE PAINTED WITH A LIBERAL AMOUNT OF "KOOL-SEAL" ALUMINUM ROOF COATING #20-400 OR EQUAL.
- 3. PROVID DOUBLE WALL DUCTWORK IN AREAS WHERE DUCT IS EXPOSED TO VIEW. PROVIDE DUCT INSULATION BETWEEN DUCT WALLS WITH MINIMUM R-VALUE OF 6. REFER TO SPECIFICATIONS.
- D. PROVIDE FLEXIBLE CONNECTION AT DUCT ATTACHMENTS TO MECHANICAL EQUIPMENT.
- E. HVAC EQUIPMENT SUMITTED OTHER THAN SCHEDULED MANUFACTURER'S SHALL NOT EXCEED PHYSICAL DIMENSIONS DUE TO SPACE LIMITATIONS.
- F. ALL PIPING AND DUCTWORK PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE PROTECTED WITH FIRE BLOCKING MATERIAL AND/OR DAMPERS PER SPECIFICATIONS.
- G. MANUAL VOLUME DAMPERS INSTALLED IN RECTANGULAR DUCTWORK SHALL BE OPPOSED BLADE TYPE. MANUAL VOLUME DAMPERS INSTALLED IN ROUND DUCTWORK SHALL BE BUTTERFLY TYPE.
- H. BALANCING DAMPERS IN EXTERNALLY INSULATED DUCTWORK SHALL BE PROVIDED WITH A BUILD-OUT ON DAMPER OPERATOR TO EXTEND OPERATOR HANDLE TO OUTSIDE OF INSULATION.
- CONCEALED DUCTWORK TO HAVE OPERABLE QUADANTS ON BALANCING DAPERS. . PROVIDE ACCESS TO ALL CONTROL, MOTORIZED, BALANCING AND FIRE DAMPERS. PROVIDE
- ACCESS DOORS IN DUCTS AND CEILINGS WHERE NECESSARY. K. DUCTWORK SHALL BE GALVANIZED G-90 SHEETMETAL FABRICATED TO SMACNA STANDARDS. DUCTWORK SHALL BE SHEET STEEL OF LOCK-FORMING QUALITY, ASTM-525. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL SEAMS AIR TIGHT WITH LOW PRESSURE DUCT SEALANT.
- .. FLEXIBLE DUCTWORK SHALL BE EQUAL TO FLEXMASTER 8M WITH AN INSULATING R-VALUE OF 6 OR BETTER. FLEX DUCT SHALL NOT EXCEED 6 FT. IN LENGTH. DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK.
- M. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH 24 HOUR MEMORY BACKUP SIMILAR TO HONEYWELLS T7350M1008/U.

HVAC SYMBOLS AND ABBREVIATIONS

DUCTWORK:		<-\-	RETURN AIR
20"ø	PRIMARY DUCT, ROUND		FIRE/SMOKE DAMPER
20/12	PRIMARY DUCT, RECTANGULAR	\boxtimes	CEILING DIFFUSER
	DUCT TRANSITION		RETURN/EXHAUST AIR GRILLE
	BRANCH TAP	MISCELLANEOUS:	
 		(TS)(HS)	ZONE TEMP/HUMIDITY SENSOR
LINE TYPES:	MANUAL VOLUME DAMPER (MVD)	TH	ZONE THERMOSTAT/HUMIDISTAT
LINE TYPES:	NEW EQUIPMENT	A 8"ø	AIR DEVICE TYPE, NECK
	NEW PIPING OR DUCT	LA 200 CFM	SIZE, SCHEDULED CFM
	EXISTING PIPING OR DUCT	€	NEW CONNECTION TO LANDLORD'S BASE SYSTEM
NOTE: ALL S	YMBOLS & ABBREVIATIONS MAY NOT	APPLY TO THIS PRO	DJECT

NOTE: ALL SYMBOLS & ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

LEGEND

ACC.DR. AFF CFM DB E/A EAT ESP FC FLA FPI FT W.G. GALV GPM	ABOVE FINISHED FLOOR CUBIC FEET PER MINUTE DRY BULB EXHAUST AIR ENTERING AIR TEMPERATURE EXTERNAL STATIC PRESSURE FLEXIBLE CONNECTION FULL LOAD AMPS FINS PER INCH	HVAC IN W.G. KW LAT MBH MOCP O/A PD/A RPM S/P SQ FT U.C. WB	HEATING VENTILATING & AIR CONDITIONING INCH WATER GAUGE KILOWATT LEAVING AIR TEMPERATURE THOUSAND BTU PER HOUR MAXIMUM OVER CURRENT PROTECTION OUTSIDE AIR PRESSURE DROP RETURN AIR RUNNING LOAD AMPS REVOLUTION PER MINUTE SUPPLY AIR STATIC PRESSURE SQUARE FEET UNDERCUT DOOR BY 1" WET BULB

FAN SCHEDULE										
MARK	EF-(1-2)	EF-3								
SERVES	RESTROOM	RESTROOM								
DRIVE	DIRECT	DIRECT								
CFM	50	80								
E.S.P. IN W.G.	0.5	0.5								
WATTS	30	30								
FAN RPM	583	583								
SONES (MAX.)	3.0	3.0								
VOLTS/PHASE/HERTZ	115/1/60	115/1/60								
MANUFACTURER	GREENHECK	GREENHECK								
MODEL NUMBER	SP-B110ES	SP-B110ES								
WEIGHT	10	10								
NOTES	1, 2, 3	1, 2, 3								

1. FAN SHALL BE DIRECT DRIVE WITH MOTOR MOUNTED SPEED CONTROL RELAY, PREWIRED INTEGRAL DISCONNECT SWITCH, AND BACKDRAFT DAMPER. 2. EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH TO TURN ON WHEN RESTROOM LIGHT IS ON. COORDINATE WITH ELECTRICAL. 3. EQUIVALENT MANUFACTURES ARE COOK AND GREENHECK.

			Al	R DI	EVICE	SCHE	DU	LE		
PLAN MARK	MANUF. & MODEL NUMBE	R SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINIS	H BLOW PATTERN	MAT'L.	OPTIONS/NOTES
A	TITUS OMNI-AA	SUPPLY	24 X 24	8 " ø	18 X 18	3	26	4	ALU	
В	TITUS OMNI-AA	SUPPLY	24 X 24	6 " ø	18 X 18	3	26	4	ALU	
С	TITUS OMNI-AA	SUPPLY	12 X 12	6 " ø	9 X 9	3	26	4	ALU	
D	TITUS 50 F	RETURN	24 X 12	6 X 6	20 X 10	3	26	-	ALU	½" X ½" X 1" CORE AG-15-AA
E	TITUS 50 F	RETURN	24 X 12	8 X 6	20 X 10	3	26	-	ALU	½" X ½" X 1" CORE AG-15-AA
F	TITUS 50 F	RETURN	24 X 12	10 X 1	0 20 X 10	3	26	-	ALU	½" X ½" X 1" CORE AG-15-AA
G	TITUS 50 F	RETURN	24 X 12	12 X 6	3 20 X 10	3	26	-	ALU	½" X ½" X 1" CORE AG-15-AA
Н	TITUS 50 F	RETURN	24 X 12	18 X 1	0 20 X 10	3	26	-	ALU	½" X ½" X 1" CORE AG-15-AA
	TITUS 350 FL	RETURN TRANSFER	10 X 8	8 X 6	7.25 X 5.25	1	26	-	ALU	AG-15-AA
1. S 2. S 3. L 4. S 5. [BORDER TYPE 1. SURFACE MOUNT 2. SNAP—IN 2. SNAP—IN 3. LAY—IN 4. SPLINE 5. DROPPED 6. BEVELED		POSITE		FINISH 01 ALUMINUM 04 MILL (STD) 26 WHITE MATERIAL ST'L 22 GAUGI ALU ALUMINUM	E STEEL		OPTIONS/NOTES TRM PFSS PFA AG-15 AG-15-AA AG-15-SS EQT L S AG-85 EG TRV	RAPID MOU SS PLASTE ALUM PLAS STEEL DAM ALUMINUM STAINLESS EARTHQUAI FRONT BLA BUTTERFLY EQUALIZING	R FRAME STER FRAME PER DAMPER STEEL DAMPER (E TABS DE LONG ORIENTATION DAMPER DAMPER

MARK	AHU-1	AHU-2	AHU-3	
SERVES	BOARD ROOM	NORTH WEST AREA	WORK AREA	
TYPE	CV	CV	CV	
TONS	3	3	3.5	
SUPPLY (CFM)	1,375	1,300	1,900	
OUTSIDE AIR (CFM)	0	0	0	
EXT. SP. (IN. WG)	0.75	0.75	0.75	
PERCENT OUTSIDE AIR	0%	0%	0%	
FAN MOTOR HORSEPOWER				
FAN MOTOR TYPE	ECM	ECM	ECM	
FAN STYLE/CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	
FAN MOTOR TYPE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	
COOLING COIL	<u> </u>		-	
MAX. COIL FACE VEL. (FPM)	500	500	500	
EAT DB/WB (F)	78/64.5	73/59.4	73/58.7	
LAT DB/WB (F)	54.2/51.8	55/51.8	55/51.1	
TOTAL GRAND (MBTUH)	34.9	44	39.7	
TOTAL SENSIBLE (MBTUH)	27.7	36.7	33.7	
REHEAT COIL				
HEATING KW	7.4	7.0	10.2	
HEATING BTUH	25245.0	23868.0	34884.0	
HEATING EAT DB (F)	68	68	68	
HEATING LAT DB (F)	85	85	85	
ELECTRICAL DATA				
VOLTS/PH/HZ	208/3/60	208/3/60	208/3/60	
MCA	5.63	5.6	5.63	
MOCP	15	10.1	15	
MANUFACTURE	MTSUBISHI/TRANE	MITSUBISHI/TRANE	MTSUBISHI/TRANE	
MODEL No.	TPVFYP054AM141A	TPVA0A0421AA70A	TPVFYP054AM141A	
NOTES:	1,2,3,5,6,7,8	1,2,3,5,6,7,8	1,2,3,5,6,7,8	

- 1. PROVIDE 2" PLEATED 30% EFFICIENT MERV 8 FILTERS FOR THE AHU WITH 80-85% EFFICIENCY.
- 2. PROVIDE SLIDE OUT FILTER FRAME ON RETURN INLET OF AIR HANDLER.
- 3. PROVIDE WITH SINGLE POINT OF ELECTRICAL CONNECTION FOR EACH UNIT. THE UNITS SHALL BE CONSTANT VOLUME.
- 4. PROVIDE 24" TALL STAND/PLENUM BASE FOR HORIZONTAL UNITS.
- 5. PROVIDE RUBBER IN SHEAR ISOLATORS FOR SUSPENDED AIR HANDLER.
- 6. PROVIDE SECONDARY DRAIN PAN WITH EMERGENCY FLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH UNIT SAFETIES.
- PROVIDE ALL SENSORS, ACCESSORIES, CONTROL POINTS, AND INTERLOCKS FOR THE AHUS AND THEIR RESPECTIVE ACCUS TO BE PROPERLY OPERATED AND STAGED BY THE DDC SYSTEM. COORDINATE ALL THE REQUIRED CONTROLS WITH THE EQUIPMENT TYPE, CONFIGURATION, NUMBER OF DX STAGES, REFRIGERATION CIRCUITS, CONTROLS
- SEQUENCES AND SPECIFICATIONS. ALL CONTROLS SHALL BE COMPATIBLE WITH THE DISTRICT STANDARDS. INSTALL ALL UNITS AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. PROVIDE THE MANUFACTURERS MINIMUM CLEARANCES FOR OPERATION AND SERVICE OF THE UNIT. COORDINATE THE INSTALLATION OF THE UNIT WITH ALL OTHER DISCIPLINES, DUCTWORK, STRUCTURE, ELECTRICAL, AND ALL OTHER OBSTRUCTION PRIOR TO INSTALLATION OF THE UNIT, ITS EQUIPMENT PAD, AND ALL ACCESSORIES.
- MECHANICAL SPACES HAVE BEEN DESIGNED AROUND THE SPECIFIED MANUFACTURER. ALTERNATE MANUFACTURERS EQUIPMENT SHALL NOT EXCEED THE SPECIFIED MANUFACTURES PHYSICAL DIMENSIONS AND WEIGHTS.

DOA CONDENSING UNIT SCHEDULE									
MARK	DOACU-1								
SERVES	DOAAHU-1								
NOMINAL TONNAGE	7.5								
VOLTS/PH/HZ	208/3/60								
MCA	38								
MOCP	60								
MFG	TRANE								
MODEL No.	TTA09043								
NOTES:	ALL								

- PROVIDE SYSTEM WITH 1 YEAR PARTS, LABOR AND REFRIGERANT WARRANTY.
- . SIZE REFRIGERANT LINES PER MANUFACTURES RECOMMENDATIONS. PROVIDE HIGH AND LOW PRESSURE SWITCHES, LIQUID LINE FILTER DRIER, CRANKCASE HEATERS AND NON-BLEED PORT, ADJUSTABLE EXPANSION VALVE. PROVIDE LIQUID LINE SIGHT GLASS AND PRESSURE TAPS ON INLET AND OUTLET OF INDOOR COILS.
- PROVIDE WITH HAIL GUARDS AND FACTORY APPLIED ENERGY GUARD COIL COATING.

DX MINISPLIT UNIT SCHEDU	<u> </u>		
AIR HANDLER SCHEDULE MARK	AHU-1&2		
SERVES	IT ROOM		
TYPE	WALL MOUNTED		
MIN-MAX SUPPLY (CFM)	265–455		
FAN MOTOR TYPE	DC MOTOR		
COOLING COIL (MBTUH) MAX/MIN	12/4.4		
NOMINAL TONNAGE	1		
VOLTS/PH/HZ	230/1/60		
MCA ,	1		
MANUFACTURER	MITSUBISHI		
MODEL NO.	PKA-A12LA		
NOTES	1,2,3,4,5,6		
CONDENSING UNIT SCHEDULE		•	
MARK	CU-1&2		
SERVES	AHU-1&2		
NOMINAL TONNAGE	1		
SEER	21		
MCA	11		
MOCP	28		
VOLTS/PH.HZ	230/1/60		
MANUFACTURER	MITSUBISHI		
MODEL NO.	PUY-A12NKA7-BS		
NOTES	2,3,6		

. DO NOT EXCEED MANUFACTURES RECOMMENDED REFRIGERENT LINE LENGTHS. 4. PROVIDE WIRED THERMOSTAT WITH WIFI CAPABILITIES. 5. UNIT SHALL BE WALL MOUNTED COOLING ONLY UNIT. 6. ACCEPTABLE MANUFACTURES ARE MITSUBISHI OR DAIKIN. DX SPLIT AIR HANDLING UNIT SCHEDULE AHU-2 AHU-3 SERVES NORTH WEST AREA WORK AREA BOARD ROOM CV CV CV 3.5 SUPPLY (CFM) 1,375 1,300 1,900 OUTSIDE AIR (CFM)

AND LOW PRESSURE SWITCHES, CRANKCASE HEATERS, NON-BLEED PORT, AND ADJUSTABLE EXPANSION VALVE.

PROVIDE PRESSURE TAPS ON INLET AND OUTLET OF INDOOR COILS. PROVIDE SUCTION ACCUMULATORS ON ALL UNITS.

0.75 EXT. SP. (IN. WG) 0.75 0.75 PERCENT OUTSIDE AIR 0% 0% 0% FAN MOTOR HORSEPOWER FAN MOTOR TYPE ECM ECM ECM FAN STYLE/CONFIGURATION VERTICAL VERTICAL VERTICAL FAN MOTOR TYPE DIRECT DRIVE DIRECT DRIVE DIRECT DRIVE COOLING COIL MAX. COIL FACE VEL. (FPM) 500 500 500 EAT DB/WB (F) 78/64.5 73/59.4 73/58.7 LAT DB/WB (F) 54.2/51.8 55/51.8 55/51.1 TOTAL GRAND (MBTUH) 39.7 IOTAL SENSIBLE (MBTUH) REHEAT COIL HEATING KW 7.4 7.0 10.2 HEATING BTUH 25245.0 23868.0 34884.0 HEATING EAT DB (F) 68 HEATING LAT DB (F) 85 85 ELECTRICAL DATA VOLTS/PH/HZ 208/3/60 208/3/60 208/3/60 5.63 5.63 5.6 MOCP 10.1 15 MANUFACTURE MTSUBISHI/TRANE MITSUBISHI/TRANE MTSUBISHI/TRANE TPVA0A0421AA70A MODEL No. TPVFYP054AM141A TPVFYP054AM141A

1,2,3,5,6,7,8

1,2,3,5,6,7,8

PROVIDE 2" PLEATED 30% EFFICIENT MERV 8 FILTERS FOR THE AHU WITH 80-85% EFFICIENCY.

1,2,3,5,6,7,8

PROVIDE SLIDE OUT FILTER FRAME ON RETURN INLET OF AIR HANDLER.

TO INSTALLATION OF THE UNIT, ITS EQUIPMENT PAD, AND ALL ACCESSORIES.

- 3. PROVIDE WITH SINGLE POINT OF ELECTRICAL CONNECTION FOR EACH UNIT. THE UNITS SHALL BE CONSTANT VOLUME.
- 4. PROVIDE 24" TALL STAND/PLENUM BASE FOR HORIZONTAL UNITS.
- 5. PROVIDE RUBBER IN SHEAR ISOLATORS FOR SUSPENDED AIR HANDLER.
- 6. PROVIDE SECONDARY DRAIN PAN WITH EMERGENCY FLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH UNIT SAFETIES.
- 7. PROVIDE ALL SENSORS, ACCESSORIES, CONTROL POINTS, AND INTERLOCKS FOR THE AHUS AND THEIR RESPECTIVE ACCUS TO BE PROPERLY OPERATED AND STAGED BY THE DDC SYSTEM. COORDINATE ALL THE REQUIRED
- CONTROLS WITH THE EQUIPMENT TYPE, CONFIGURATION, NUMBER OF DX STAGES, REFRIGERATION CIRCUITS, CONTROLS SEQUENCES AND SPECIFICATIONS. ALL CONTROLS SHALL BE COMPATIBLE WITH THE DISTRICT STANDARDS.
- 8. INSTALL ALL UNITS AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. PROVIDE THE MANUFACTURERS MINIMUM CLEARANCES FOR OPERATION AND SERVICE OF THE UNIT. COORDINATE THE INSTALLATION OF THE UNIT WITH ALL OTHER DISCIPLINES, DUCTWORK, STRUCTURE, ELECTRICAL, AND ALL OTHER OBSTRUCTION PRIOR
- 9. MECHANICAL SPACES HAVE BEEN DESIGNED AROUND THE SPECIFIED MANUFACTURER. ALTERNATE MANUFACTURERS EQUIPMENT SHALL NOT EXCEED THE SPECIFIED MANUFACTURES PHYSICAL DIMENSIONS AND WEIGHTS.

CONDENSING L	JNIT SCHEDULE		
MARK	HRCU-1		
SERVES	AHU (1-3)		
TOT MBTUH	154		
AMBIENT TEMP.	105		
COOLING STAGES	3		
SEER (EER)	11		
IEER	24		
VOLTS/PH	208/3		
MCA	61		
MOCP	100		
MFG	TRANE/MITSUBISHI		
MODEL No.	TURYP1683AN40AN		
NOTES:	1,2,3		

- PROVIDE COMPRESSOR WITH 5 YEAR WARRANTY.
- PROVIDE RAWAL "APR" HOT GAS BYPASS CONTROL DEVICE TO PROVIDE MODULATING.
- CAPACITY CONTROL.
- SIZE REFRIGERANT LINES PER MANUFACTURES RECOMMENDATIONS. PROVIDE HIGH AND LOW PRESSURE SWITCHES, LIQUID LINE FILTER DRIER, CRANKCASE HEATERS AND NON-BLEED PORT, ADJUSTABLE TXV VALVE. PROVIDE LIQUID LINE SIGHT GLASS AND PRESSURE TAPS ON INLET AND OUTLET OF INDOOR **Q**OILS.

ANY REPRODUCTION, POSSESSION, OR USE OF THESE PLANS OR ANY PART THEREOF WITHOUT

PROGRESS SET

ENGINEERING

5656 S. Staples, Suite 312 Corpus Christi, TX 78413 P: (361)852-2727 F: (361)852-2922

Texas Firm Registration No. F-005318

22127

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PROJECT NO: 202270

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DATE: **April 2023** THIS DOCUMENT IS RELEASED FOR THE **MECHANICAL** PURPOSES OF INTERIM REVIEW UNDER THE AUTHORITY OF SEAN M. RODRIGUEZ

P.E. NO. 96478 IT IS NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES. May 15 2023

SCHEDULES

ARCHITECTS

13300 OLD BLANCO RD. SUITE 175 SAN ANTONIO, TEXAS 78216 TEL: (210) 349-7950 FAX: (210) 366-0847

NOTE: PROVIDE 2'-0" MIN.

FOR AIR FLOW AND SERVICE CLEARANCE AROUND UNIT. WHERE QTY OF UNITS IS 3 OR MORE, PROVIDE 3'-0" CLEARANCE BETWEEN UNITS

DISCONNECTS.

ISOLATORS (FOUR)

CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER INSTALLATION

CONDENSING UNIT MOUNTING

WHEN USING WALL-MOUNTED

VIBRATION

MECU100.DWG

8-0" MINIMUM CLEARANCE -

4" CONCRETE

11 ON GRADE



MAXWELL SUD OFFICE BUILDING

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DETAILS

MECHANICAL

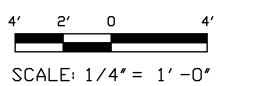
PROJECT NO: 202270

DATE: APRIL 2023

DRG REFERENCE







GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATIONAL ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS. WHERE APPLICABLE
- H. REFER TO DETAIL #XX/SHEET EXXX FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

LIGHTING PLANS KEY NOTES:

- 1 EXHAUST FAN AND RESTROOM LIGHTING SHALL BE CONTROLLED BY RESTROOM SENSOR SWITCH (SWITCH SHALL BE AUTOMATIC ON/OFF).
- 2 EXHAUST FAN AND RESTROOM LIGHTING SHALL BE CONTROLLED BY RESTROOM CEILING SENSOR.
- WALL SENSOR SWITCH TO BE PROGRAMMED TO BE AUTOMATIC ON/OFF FUNCTION.

CIRCUIT EXIT SIGNS & EMERGENCY LIGHTS (IF APPLICABLE) TO UNSWITCHED SIDE OF LIGHTING CIRCUIT SERVING AREA IN WHICH LOCATED, TYPICAL. ALL EMERGENCY BATTERY PACKS SHALL BE CIRCUITED TO UNSWITCHED SIDE OF CIRCUIT INDICATED.

OCCUPANCY SENSOR SCHEDULE (SOME MAY NOT BE USED)

ZP SENSORSWITCH POWER PACK #PP20 2P

PP SENSORSWITCH POWER PACK #PP20

\$00 SENSORSWITCH #WSXA-SA-CBA \$002 SENSORSWITCH #WSXA-PDT-D-SA-CBA

\$00F SENSORSWITCH #WSX-PDT-2P-FAN-CBA
\$0 0-10V DIMMER SWITCH

\$P SENSORSWITCH #sPODMA-SA-CBA \$P-D SENSORSWITCH #sPODMA-D-SA-CBA

\$P2-D SENSORSWITCH #sPODMA-2P2SA-D-CBA \$P-3W SENSORSWITCH #sPODMA-SA-3X-CBA \$P-3W-D SENSORSWITCH #sPODMA-D-SA-3X-CBA

SENSORSWITCH #sPODMA-D-SA-3X
SENSORSWITCH #CM9

SENSORSWITCH #CM9-PDT
SENSORSWITCH #WV-PDT-16-WVBR

SENSORSWITCH #HWR13-WH
SENSORSWITCH #CM10
SENSORSWITCH #CM10-PDT

WHERE MULTIPLE OCCUPANCY SENSORS ARE INDICATED CIRCUITED TOGETHER TO ONE POWER PACK OR SET OF POWER PACKS, ACTIVATION OF ANY ONE SENSOR SHALL ENERGIZE POWER PACK

(CLOSE RELAY).
"CBA" = STANDARD COLOR BY ARCHITECT

SENSOR LAYOUT IS BASED ON ACUITY COVERAGE PATTERNS.
ADJUST QUANTITIES AND LOCATIONS FOR APPROVED SUBSTITUTION.

ALL SENSORS SHALL BE LINE VOLTAGE, WITH PROVIDED HOT, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED. PROVIDE COPIES OF SENSOR OPERATION INSTRUCTIONS TO OWNER.

SET TIME DELAY TO 20-30 MINUTES FOR ALL OCCUPANCY SENSORS. SINGLE RELAY WALL SWITCH AND CEILING MOUNTED SENSORS TO BE SET TO MANUAL ON, AUTO OFF. REST ROOMS AND CORRIDORS SET THE SENSORS TO AUTO ON/AUTO OFF. DUAL RELAY WALL SWITCH SHALL BE SET TO MANUAL ON MODE RELAY 1, AUTO ON RELAY 2.

TIME BASED LIGHTING CONTROL SHALL BE ACCOMPLISHED BY USE OF AN ARP DIGITAL RELAY PANEL OR EQUIVALENT.

PROVIDE DIGITAL OUTDOOR PHOTOSENSOR, INSTALLED PER DETAIL#X ON SHEET XXXXX. CONNECT PHOTOCELL TO RELAY PANEL PER MANUFACTURERS INSTRUCTIONS. EXTERIOR LIGHTS SHALL BE TURNED ON BY PHOTOCELL, AND TURNED OFF BY TIME CLOCK. EXTERIOR SECURITY LIGHTS SHALL BE CONTROLLED BY PHOTOCELL ONLY. SEE LIGHTING CONTROLS WIRING DIAGRAM. SEE LIGHTING CONTROL SCHEDULE.

VERIFY TIME SETTINGS WITH OWNER REPRESENTATIVE. PROVIDE COPY OF OPERATING INSTRUCTIONS TO OWNER. PROVIDE COPY INSIDE RELAY PANEL.

PROGRESS SET

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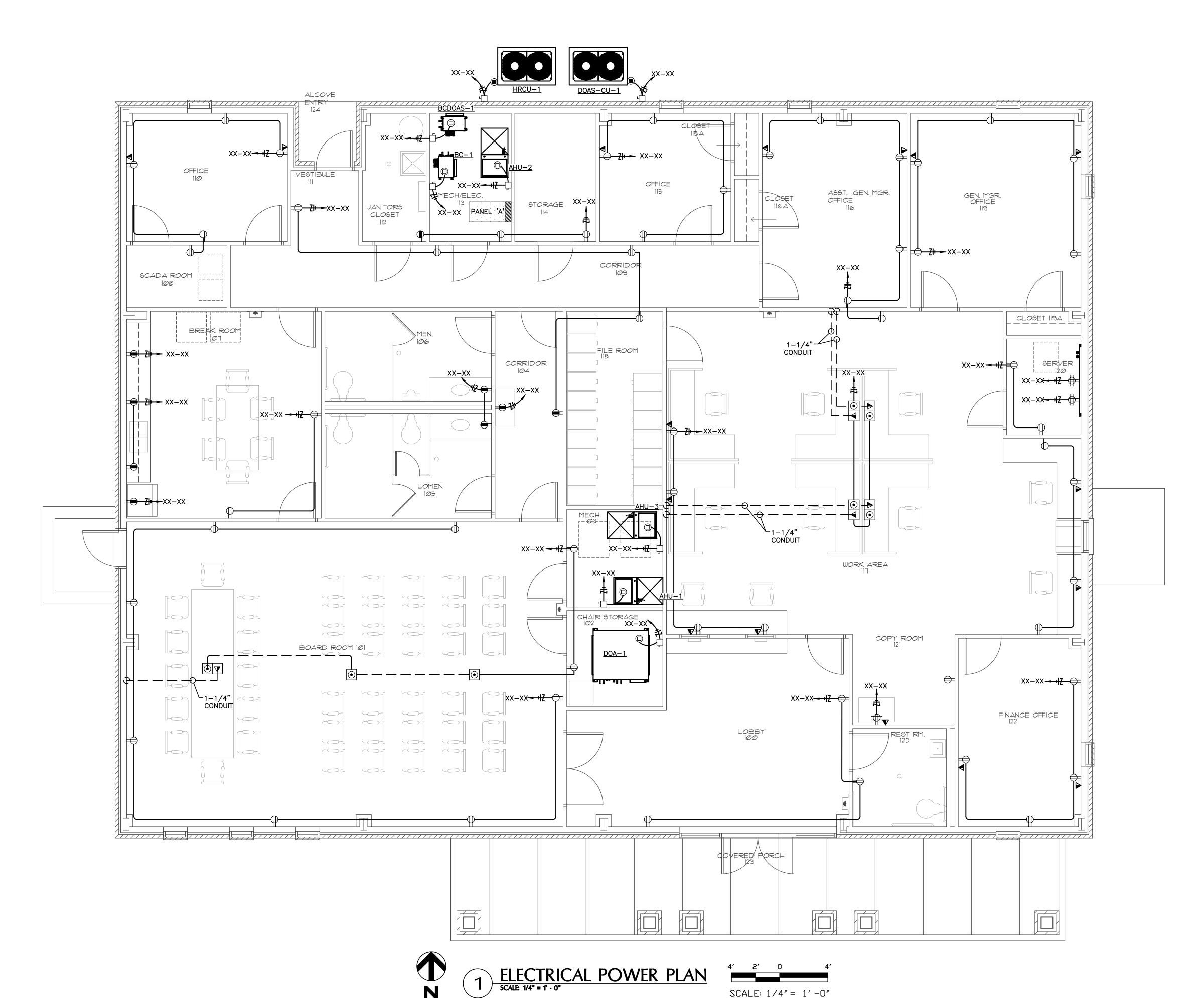
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PROJECT NO: 202270
DATE: APRIL 2023

TO THE FULL EXTENT OF THE LAW.

ELECTRICAL LIGHTING PLAN

E11



GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATIONAL ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH ULLISTED FIRE SEALANT.
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS. WHERE APPLICABLE
- H. REFER TO DETAIL #XX/SHEET EXXX FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

POWER KEY NOTES:

- 1) PROVIDE 30A/2P/NF/NEMA-1 DISCONNECT SWITCH.
- 2 PROVIDE 100A/3P/NF/NEMA-3R DISCONNECT SWITCH.

RECEPTACLES WITHIN THE BUSINESS OFFICES, AND CORRIDORS SHALL BE TAMPER—RESISTANT PER NEC 406.12

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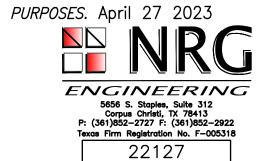
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PROJECT NO: 202270

DATE: APRIL 2023

ELECTRICAL POWER PLAN

E2.1

ANSUL SUPPRESSION SYSTEM

KEYPAD (ROUGH-IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)

CARD READER (ROUGH-IN W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING)

ELECTRONIC STRIKE (ACCESS CONTROL) MAGNETIC LOCK (ACCESS CONTROL)

FIRE ALARM DOOR RELEASE

ELECTRICAL SYSTEM SECTION 16000 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISMANTLING OF TEMPORARY POWER USED FOR CONSTRUCTION AND ALL COSTS INCURRED AS A RESULT OF THIS WORK. COORDINATE ALL TEMPORARY ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIOR TO COMMENCING WORK. WORK UNDER THIS CONTRACT INCLUDES MODIFICATIONS TO ANY EXISTING ELECTRICAL SYSTEM AND ALSO PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES, ALL LOCAL APPLICABLE ORDINANCES AND LAWS, AS WELL AS, SUBJECT TO INSPECTION. THE INTENT OF THESE DRAWINGS ARE TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL DEVICE ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PROPER OPERATION OF ALL SYSTEMS AND THEIR ASSOCIATED EQUIPMENT AS INDICATED BY THE DESIGN ON THESE COORDINATE WITH THE WORK OF ALL OTHER SECTIONS. VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. REFER TO ARCHITECTURAL PLANS, AS WELL AS, KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION REGARDING RELATED EQUIPMENT, CASEWORK, AND ELECTRICAL CONNECTIONS REQUIRED THEREIN. COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA, OSHA, LIFE SAFETY CODES, AND ALL APPLICABLE LAWS IN EFFECT AT THE TIME OF THIS PROPOSAL. IN THE CASE OF CONFLICT, THEN THE STRICTER INTERPRETATION SHALL TAKE PRECEDENCE. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITER'S LABORATORIES INC. VERIFY VOLTAGE DROPS, A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ALL CIRCUIT BREAKERS, CONDUIT, ETC. PRIOR TO INSTALLATION. ROOF PENETRATIONS SHALL COMPLY WITH SMACNA, NRCA STANDARDS, AS WELL AS, ALL REQUIREMENTS OF THE OWNER AND ROOF METHODS AND MATERIALS WARRANTY. SUB-CONTRACT ROOFING PENETRATION WORK TO AN ENTITY APPROVED FOR USE BY THE OWNER AND ROOF MANUFACTURER. PANELBOARDS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS.
ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. BUSSING SHALL BE COPPER WITH SILVER PLATING. PROVIDE SOLID NEUTRAL BAR.
DISCONNECT SWITCHES: SHALL BE HEAVY—DUTY TYPE AS MANUFACTURED BY SQUARE D, EATON,
OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO ANY HVAC UNIT. LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR. TRANSFORMERS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS.
ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. CIRCUIT BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED 'HACR'. SURGE PROTECTION DEVICE (SPD): SPDS SHALL BE UL1449 4TH EDITION LISTED AND MANUFACTURED BY THOR SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7—MODE PROTECTION AND SERVICE ENTRANCE & INTERMEDIATE DISTRIBUTION UNITS SHALL BE UL LABELED WITH 20kA I—NOMINAL. SURGE CURRENT CAPABILITY FOR SERVICE ENTRANCE DEVICES SHALL BE 300kA PER PHASE 200kA PER PHASE FOR INTERMEDIATE DISTRIBUTION OR ROOF MOUNTED BRANCH PANELS, AND 100kA FOR BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHERWISE ON DRAWING. CABINETS: SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98% CONDUCTIVE COPPER, ALUMINUM, OR COPPER—CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE CODE GAGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT, GROUND CLAMPS SHALL BE OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE 250. CONDUIT: SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED, MINIMUM OF 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM SIZE 3/4". PROVIDE RIGID STEEL ELBOWS WHEN UNDERGROUND CONDUIT PENETRATES THE FLOOR SLAB. PROVIDE ELECTRICAL METALLIC TUBING (EMT) MEETING FSW—C563, ARMOR CABLE, OR FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS 2" AND SMALLER SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH BUSSING INSIDE AND LOCKNUT OUTSIDE. 1. RIGID STEEL CONDUIT: ANSI C80.1 2. INTERMEDIATE STEEL CONDUIT: UL 1242 3. ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3 4. FLEXIBLE METAL CONDUIT: ZINC COATED STEEL.

	INSULATION MAY NOT I INSULATION TO BE RAT						
		BRANCH CIRC	CUITS	T⊢	HN, THWN2	2	
1		FFFDFRS		T⊢	HWN2		i

SERVICE ENTRANCE

5. LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO BE SPECIFICALLY APPROVED FOR USE WITH THIS RACEWAY.

6. MC CABLE IS APPROVED FOR INSTALLATION <u>ONLY</u> AT THE END OF A RIGID CONDUIT RUN AND IS ONLY TO ORIGINATE FROM AN APPROVED JUNCTION BOX AND FEED DIRECTLY DOWN TO DEVICE.

CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #12 TO BE SOLID OR STRANDED, #10 AND LARGER TO BE STRANDED, MINIMUM #12, UNLESS OTHERWISE INDICATED.

ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75° DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THHN"

DEVICES & COVERPLATES:

ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, SIDE OR BACK WIRED. SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-15R. HUBBELL #5251-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING). <u>DUPLEX RECEPTACLE:</u> 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R. HUBBELL #5342-#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING). GROUND—FAULT INTERRUPTER RECEPTACLE: 20 AMP, 125 VOLT, 2—POLE, 3—WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5—20R, FEED—THRU TYPE CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND—FAULT SENSING LEVEL WITH 5 mg GROUND—FAULT TRIP LEVEL. HUBBELL #1G5362#. (DEVICE COLOR IS DEPENDENT ON AREA OF

THWN2, XHHW, XHHW2

<u>WEATHERPROOF RECEPTACLE:</u> SHALL BE A GROUND-FAULT INTERRUPTER WITH STAINLESS STEEL, GASKETED LIDS AND PLATE. PLATE TO CONSIST OF TWO SPRING LOADED LIDS HINGED AT TOP. <u>PLUG FILLERS:</u> PROVIDE FLUSH RECEPTACLE COVERS AT ALL DUPLEX RECEPTACLES IN PUBLIC AREAS. COLOR OF FILLERS TO MATCH COLOR OF RECEPTACLE AND COVERPLATE. <u>LIGHTING FIXTURES:</u> ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGE HOMERUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE AND CONDUIT SIZE ACCORDINGLY IF VOLTAGE DROP EXCEEDS 3% OR LENGTH OF RUN EXCEEDS 100 FEET.

CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUIT PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES, SUCH THAT ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED. INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90° DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT FREE OF DEBRIS. SWITCHES AND OUTLETS SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET. THE DISCONNECTION OR REMOVAL OF A RECEPTACLE, FIXTURE OR OTHER DEVICE FED FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY. ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS. TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT A "NEW" APPEARANCE. ALL CONDUIT AND JUNCTION BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED TO MATCH THE COLOR OF THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT).

ALL LAMPS, FIXTURES AND ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO OWNER ACCEPTANCE. TOGGLE TYPE SWITCH: 20 AMP, 120/277 VOLT AC SINGLE-POLE, QUIET TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE-WIRED SCREW

TERMINALS. HUBBELL #HBL 1221I.
A. 2-POLE, 3-WAY & 4-WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE-POLE. PILOT TYPE TOGGLE SWITCH: INSTALL SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT AC. PILOT LIGHT GLOWS IN THE "ON" POSITION. HUBBELL #HBL 1221PL.

- ELECTRICAL EQUIPMENT IDENTIFICATION:
 A. ENGRAVED PLASTIC-LAMINATE NAMEPLATES: SHALL BE ENGRAVING STOCK MELAMINE PLASTIC LAMINATE 1/16" THICK, 1-1/2" HIGH (2" HIGH FOR 2 LINES OF TEXT) WITH 1/2" HIGH ENGRAVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SELF-TAPPING STAINLESS STEEL SCREWS, UNLESS ADHESIVE MOUNTING IS
- NECESSARY DUE TO SUBSTRATE MATERIAL. UNDERGROUND-TYPE PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS-PRINTED PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE, NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE TAPE WITH WORDED PRINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE. CABLE/CONDUCTOR IDENTIFICATION BANDS: SHALL BE VINYL—CLOTH, SELF—ADHESIVE, WRAP—AROUND TYPE MARKER; EITHER PRE—NUMBERED PLASTIC COATED TYPE OR WRITE—ON TYPE WITH CLEAR PLASTIC SELF—ADHESIVE COVER FLAP; NUMBERED TO SHOW CIRCUIT IDENTIFICATION.

GENERAL ROOF PLAN NOTES:

- CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED
- VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- . ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
- ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR EQUAL BY GOULD SHAWMUT.
- ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
- REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC DRAWINGS.
- ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

LIGHTING CONTROL NARRATIVE:

- OCCUPANT SENSOR CONTROLS SHALL BE UTILIZED THROUGHOUT FOR INTERIOR LIGHTING CONTROL, EXCEPT IN AREAS FOR WHICH EXCEPTIONS APPLY.
- NO DAYLIGHT RESPONSIVE CONTROLS ARE REQUIRED DUE TO THE FACT THAT NO ZONE MEETS THE MINIMUM REQUIREMENT OF 150WATTS PER ZONE.
- EXTERIOR LIGHTING WILL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL.
- REDUCED LIGHTING POWER DENSITY (IECC C406.3) METHOD WILL BE UTILIZED TO SATISFY THE ADDITIONAL EFFICIENCY PACKAGE OPTION IN IECC C406.

LIGHTING SYSTEM CONTROLS FUNCTIONAL TESTING (IECC C408.3):

UNDER 2015 IECC, LIGHTING SYSTEM CONTROLS TESTING IS REQUIRED FOR ALL COMMERCIAL PROJECTS. A LETTER FROM THE THIRD PARTY REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AGENT THAT FOLLOWS THE REQUIREMENT IN C408.3.1 WILL FULFILL THIS REQUIREMENT. THIS INCLUDES IN PARTICULAR:

- A) OCCUPANT SENSOR CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.1 S) TIME SWITCH CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.2
- C) DAYLIGHT RESPONSIVE CONTROLS, WHERE APPLICABLE C405.2.3
-) SPECIFIC APPLICATION CONTROLS, WHERE APPLICABLE C405.2.4 (DISPLAY LIGHTING, ETC.) E) EXTERIOR LIGHTING CONTROLS, WHERE APPLICABLE C405.2.5

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PROJECT NO: 202270 DATE: **APRIL 2023**

\$PECIFICATION\$ THE AUTHORITY OF JOHN A. RODRIGUEZ III

ORG REFERENCE

NRG NRG

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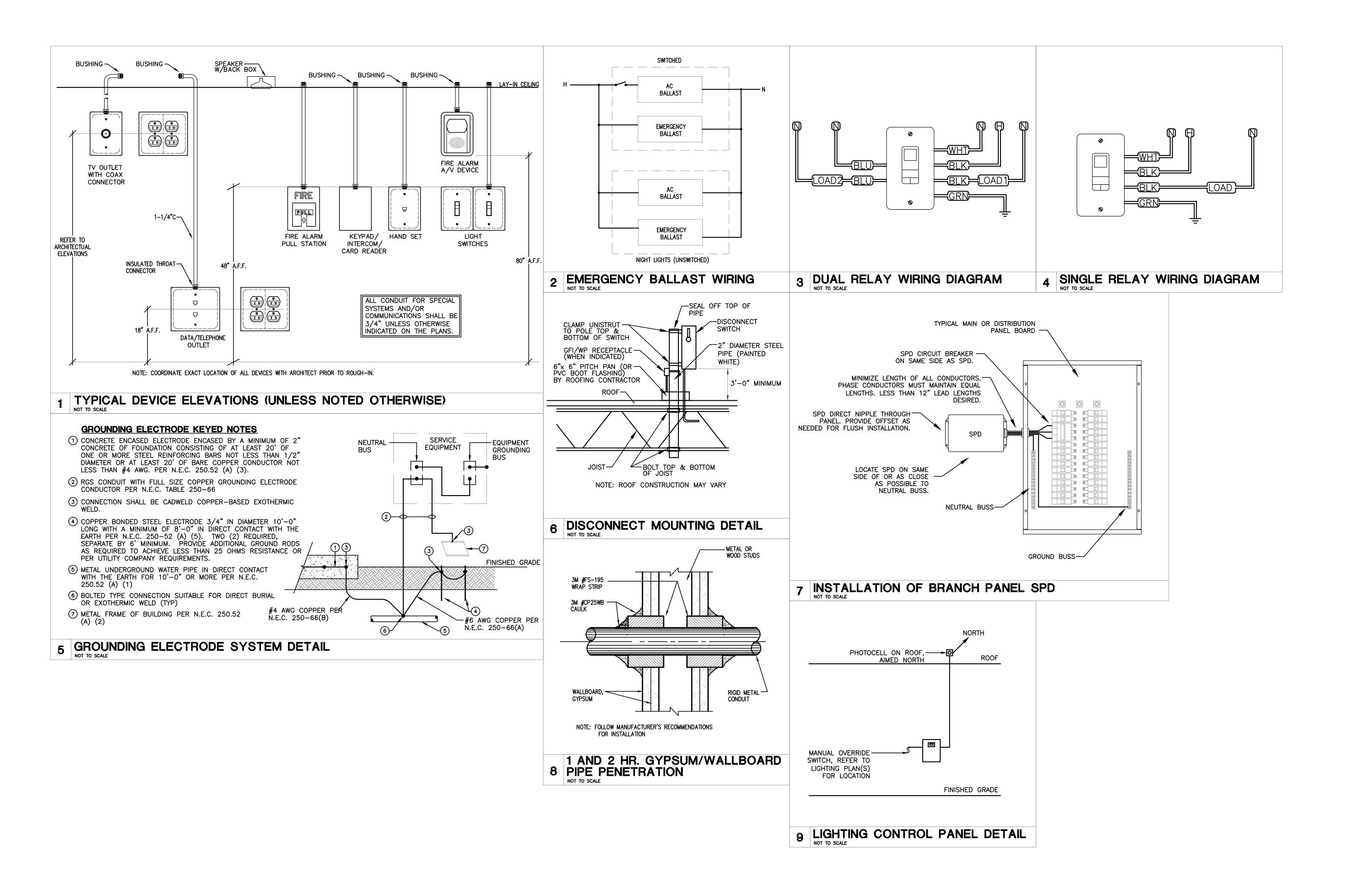
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ELECTRICAL DETAILS

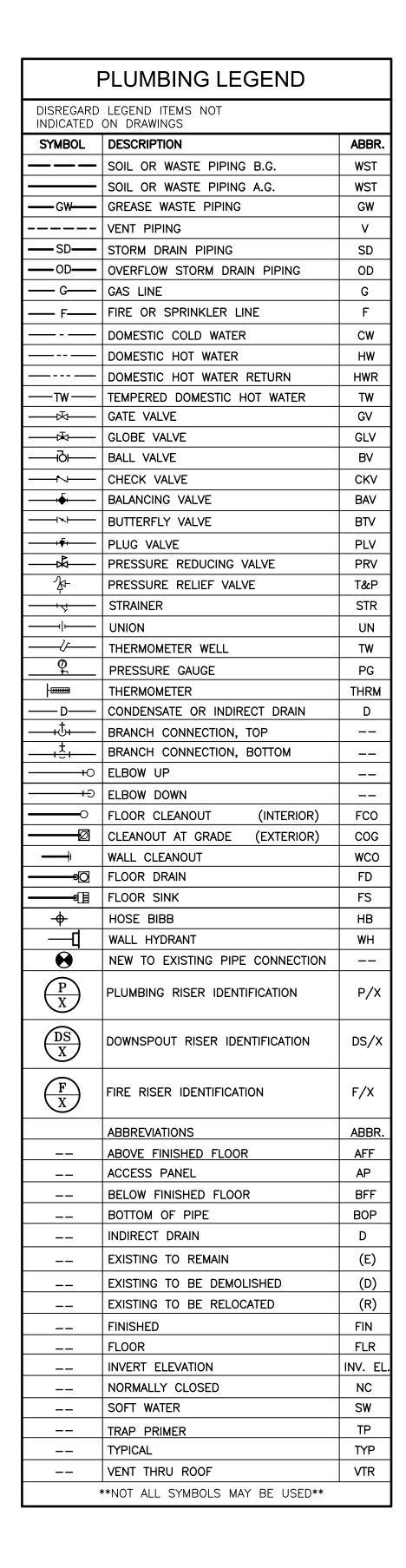
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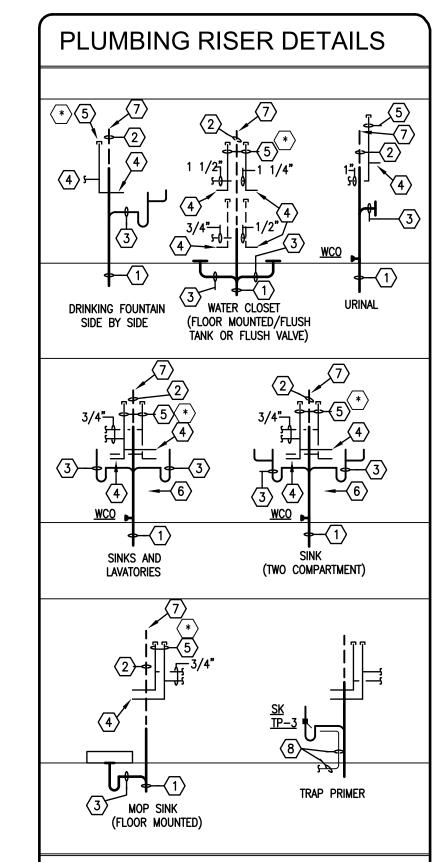
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KEYED NOTES - RISER DIAGRAM DETAILS:

- REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH—IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH—IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH—IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE FOR THIS FIXTURE.
- 4 REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH—IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.

 5 SHOCK ARRESTOR INLET; REFER TO SHOCK ARRESTOR SCHEDULE
- VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR BATTERY LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.

 6 WALL CLEANOUTS SHALL BE PROVIDED AT END OF BATTERY OR

FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL

- END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
- SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT A MINIMUM 42" ABOVE FIN. FLOOR.
- TRAP REFILL LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH—INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
- MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH—IN WORK
- 3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES, PROVIDE UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
- CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH—IN OPENINGS BEFORE BEGINNING WORK.
- 5. ALL FIXTURE AND EQUIPMENT STUB—OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE TYPE "L" TUBING, CHROME PLATED. PROVIDE 1/2" FIP X 3/8" OD COMPRESSION FITTINGS FOR ALL SINKS, LAVATORIES, AND SIMILAR FIXTURES.
- 6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE C.P. CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE 1-1/2" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES. PROVIDE 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES, MCGUIRE OR EQUAL
- 7. ALL ROUGH—IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO PIPE AND FLUSH TO WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
- 8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
- 9. ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE OF APPROVED TYPES AND WITH REQUIRED CONTROLS INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
- 10. INSULATE ALL EXPOSED WATER AND DRAIN LINES ON ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
- 11. ALL ADA/TAS SINKS SHALL BE STAMPED WITH DRAIN OUTLET AT THE REAR OF THE BOWL.
- 12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH SENATE BILL 587 FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALI INCLUDE 0.5 GPM AND 2.2 GPM FLOW CONTROL RESPECTIVELY.
- 13. ORIENT ADA/TAS WATER CLOSET FLUSH VALVE WITH OPERATOR ON LARGE SIDE OF ENCLOSURE AND BELOW GRAB BARS.
- 14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
- 15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.
- 16. EQUIVALENT MANUFACTURES OF CHINA FIXTURES ARE KOHLER, AND AMERICAN STANDARD. EQUIVALENT MANUFACTURES OF STAINLESS FIXTURES ARE JUST, ELKAY, AND ADVANCE TABCO.
- 17. WATER HEATER SHALL BE PROVIDED WITH CODE APPROVED VACUUM BREAKER AND BRASS ASME TEMPERATURE AND PRESSURE RELIEF VALVE. ROUTE TPR DRAIN LINE FULL SIZED TO EXTERIOR OF BUILDING AND TERMINATE 6" ABOVE FINISHED GRADE, OR AS INDICATED ON PLANS.
- 18. ROOF PENETRATIONS SHALL BE DONE IN STRICT COMPLIANCE WITH THE ARCHITECTS SPECIFICATIONS AND SHALL BE LEAK PROOF.
- 19. FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF STUB OUTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY WHICH MAY AFFECT THE INTENDED DESIGN.
- 20. ALL PLUMBING WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- 21. THE PLUMBING CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
- 22. ALL WATER HEATER SUPPLY CONNECTIONS SHALL HAVE HEAT TRAP NIPPLE CONNECTIONS. HEAT TRAP NIPPLES NOT REQUIRED IF HOT WATER RECIRCULATION SYSTEM IS PROVIDED.
- 23. NO HUB COUPLINGS SHALL BE HEAVY DUTY 4 BAND COUPLINGS WITH STAINLESS STEEL SHIELD.
- 24. INSULATE CONCEALED ROOF DRAIN BODIES, VERTICAL LEAD AND HORIZONTAL PIPING WITH R-6 FLEXIBLE BLANKET INSULATION. EXPOSED ROOF DRAIN BODIES AND PIPES SHALL BE INSULATED WITH AN R-6 RIGID INSULATION AND PAINTABLE CANVAS JACKET.

PLUMBING SYSTEM SECTION 15400

THE WORK INCLUDES PROVIDING NEW MATERIALS, FITTINGS, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH—IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

CONNECTION CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OR THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH—IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS ON THE PROJECT SITE.

COORDINATE WITH DIVISION 1 FOR SUBMITTAL TIMETABLE REQUIREMENTS, UNLESS NOTED OTHERWISE WITHIN THIRTY (30) DAYS AFTER THE CONTRACT IS AWARDED THE CONTRACTOR SHALL SUBMIT A MINIMUM OF ONE ELECTRONIC COPY IN A PORTABLE DIGITAL FORMAT (PDF) COMPLETE WITH TABLE OF CONTENTS AND BOUND SETS OF SHOP DRAWINGS AND COMPLETE DATA COVERING EACH ITEM OF EQUIPMENT OR MATERIAL. THE FIRST SUBMITTAL OF EACH ITEM REQUIRING A SUBMITTAL MUST BE RECEIVED BY THE ARCHITECT OR ENGINEER WITHIN THE ABOVE THIRTY DAY PERIOD. THE ARCHITECT OR ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DELAYS OR COSTS INCURRED DUE TO EXCESSIVE SHOP DRAWING REVIEW TIME FOR SUBMITTALS RECEIVED AFTER THE THIRTY (30) DAY TIME LIMIT. THE ARCHITECT AND ENGINEER WILL RETAIN A COPY OF ALL SHOP DRAWINGS FOR THEIR FILES. WHERE FULL SIZE DRAWINGS ARE INVOLVED, SUBMIT ONE (1) PRINT IN LIEU OF ELECTRONIC COPIES. ALL LITERATURE PERTAINING TO AN ITEM SUBJECT TO SHOP DRAWING SUBMITTAL SHALL BE SUBMITTED AT ONE TIME. A SUBMITTAL SHALL NOT CONTAIN INFORMATION FROM MORE THAN ONE SPECIFICATION SECTION, BUT MAY HAVE A SECTION SUBDIVIDED INTO ITEMS OR EQUIPMENT AS LISTED IN EACH SECTION. THE CONTRACTOR MAY ELECT TO SUBMIT EACH ITEM OR TYPE OF EQUIPMENT SEPARATELY.

PIPING SYSTEMS — GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

SEWER/WASTE PIPING: SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE HUBLESS CAST IRON, PVC PIPE WHERE ACCEPTED BY CODE, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOVENT WELD JOINTS AND FITTINGS. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT FOR SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER.

VENTS: PROVIDE A COMPLETE SYSTEM OF STANDARD WEIGHT CAST IRON. DO NOT USE DWV PLASTIC IN RETURN AIR PLENUM SPACES. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW. WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE WATER HAMMER ARRESSTORS AT EACH FIXTURE STOP. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: INSULATE ALL HOT AND COLD WATER PIPING, ROOF DRAIN BODIES AND HORIZONTAL ROOF DRAIN PIPES WITH A THERMAL INSULATION HAVINGA AN R-VALUE OF 4 OR GREATER. INSULATION SHALL HAVE A K FACTOR OF 0.23 AT 75 DEGREES F. PROVIDE PRE-FORMED FIBERGLASS, ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547. OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1" SELF-ADHESIVE CLOSED CELL FOAM PIPE INSULATION WITH PRE-FORMED PVC FITTING COVERS — EQUAL TO SELF-ADHESIVE ARMACELL'S AP ARMAFLEX WITH K FACTOR OF 0.23 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60 DEGREES F.

PROVIDE HEAT TRAPS AT HOT AND COLD WATER CONNECTIONS TO WATER HEATER.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO NIBCO NO. T—585—70—66 BALL VALVE, BRONZE BODY, S.S. BALL AND STEM, TEFLON SEATS AND PACKING, 600 LB. W.O.G., THREADED UNION END.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY—IN SUSPENDED CEILINGS, ACCESS PANELS ARE

SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED BRASS NUTS AND CHROME PLATED BRASS ESCUTCHEON PLATES. PROVIDE HUBLESS CAST IRON WASTE PIPING AND FITTINGS FOR THE TWO, THREE AND, FOUR COMPARTMENT SINKS. REMOVE MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT. AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

SHOP DRAWINGS: CONTRACTORS TO PROVIDE SIX SETS OF SHOP DRAWING SUBMITTALS FOR REVIEW AND APPROVAL TO ARCHITECT. OWNER, ARCHITECT, AND ENGINEER (WHEN

APPLICABLE) TO RETAIN ONE SET FOR THEIR OWN RECORDS.

GENERAL ROOF PLAN NOTES:

- 1. CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
- 3. ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH—IN.
- 4. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

PLUMBING NARRATIVE:

ELECTRIC WATER HEATERS LESS THAN 12 KW SHALL HAVE A PERFORMANCE RATING OF 0.97.

THE HOT WATER HEATING SYSTEM SHALL BE BY AN ELECTRIC WATER HEATER WITH A RECIRCULATION LINE AND PUMP. THE RE—CIRC PUMP SHALL BE CONTROLLED BY AN AQUASTAT AND TIME CLOCK. THE TIME CLOCK SHALL ENABLE THE PUMP TO OPERATE FROM 6AM TO 8PM (ADJ.) AND SHUT OFF THE PUMP FROM 8PM TO 6AM (ADJ.).

AND/O

THE HOT WATER HEATING SYSTEM SHALL BE BY WATER HEATER WITH A MAXIMUM OF 6'-0" OF 1/4" TUBING, 3'-0" OF 3/8" TUBING TO LAVATORIES AND 43'-0" OF 1/2" TUBING, 21'-0" OF 3/4" TUBING TO ALL OTHER FIXTURES.

REFER TO THE 2015 IECC SECTION C404 SERVICE WATER HEATING FOR OTHER REQUIREMENTS.

THE PLUMBING CONTRACTOR SHALL REVIEW THE SYSTEM COMMISSIONING SPECIFICATION ON THIS SHEET FOR REQUIREMENTS AND PARTICIPATION IN THE COMMISSIONING PROCESS. FAILURE TO COMPLY OR PARTICIPATE MAY INCUR ADDITIONAL COST TO THE CONTRACTOR

GENERAL ENERGY NOTES:

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 1-1/2" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE INSULATION THICKNESS (in inches)

CONDUCTIVITY	MEAN TEMP *F	NORMINA	AL PIPE DIA	•	
		< 1"	1 < 1.5"	1.5" TO< 4"	4 TO< 8"
0.23	75	1/2	1	1	1
0.24	100	1	1	1-1/2	1-1/2
0.28	200	2-1/2	2-1/2	2-1/2	3
0.34	300	3	4	4-1/2	4-1/2
0.23	75	1/2	1	1	1
	0.23 0.24 0.28 0.34	0.23 75 0.24 100 0.28 200 0.34 300	0.23 75 1/2 0.24 100 1 0.28 200 2-1/2 0.34 300 3	0.23 75 1/2 1 0.24 100 1 1 0.28 200 2-1/2 2-1/2 0.34 300 3 4	< 1"

MAXWELL SUD FFICE BUILDING

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PROJECT NO: 202270
DATE: APRIL 2023

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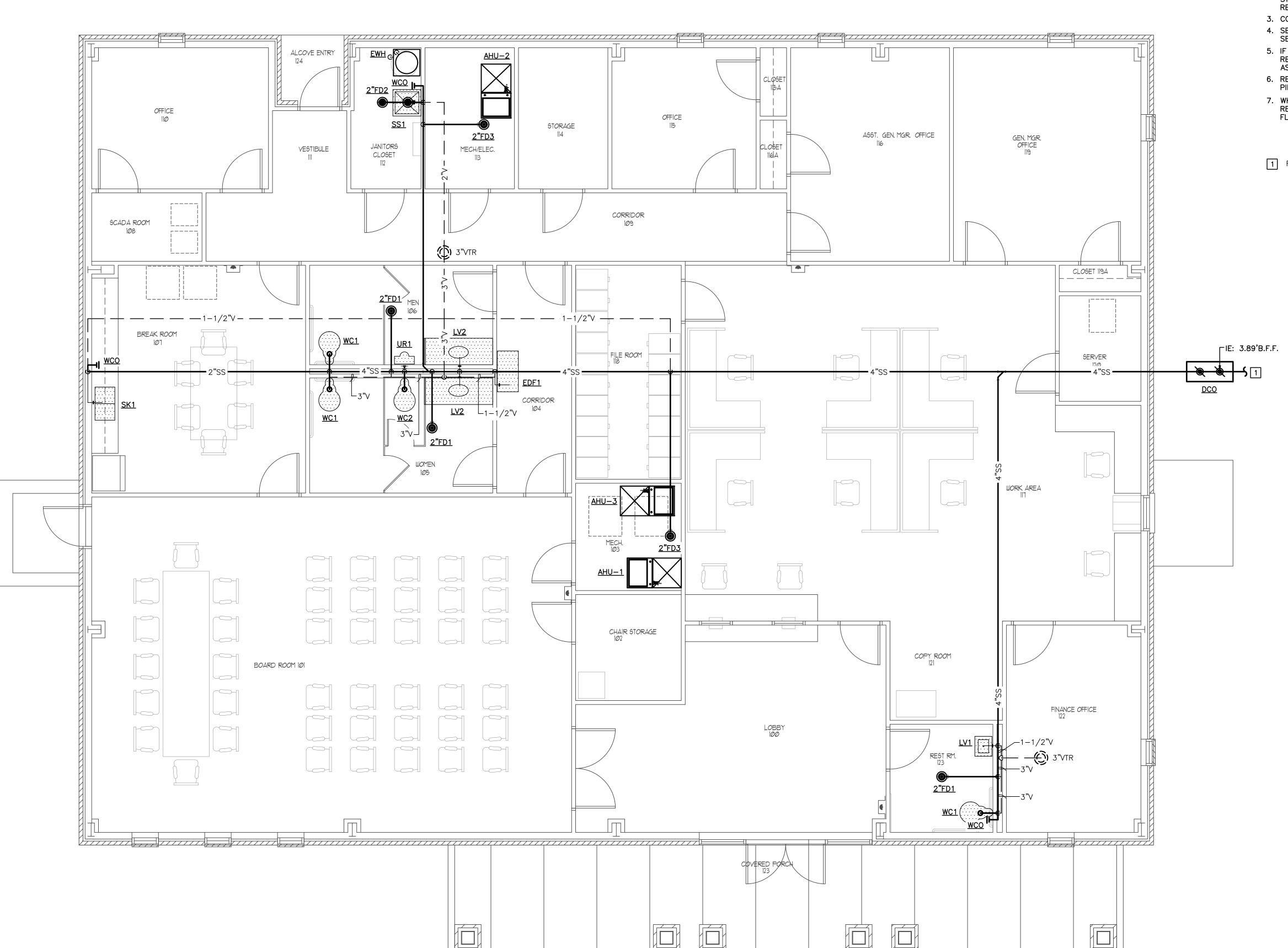
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PLUMBING SPECIFICATIONS

P0.1

ORG REFERENCE

Apr 27, 2023 – 4:14pm 22127_PLUM.dwg



1 PLUMBING DWV PLAN
SCALE: 1/4" = 1' - 0"

SCALE: 1/4'' = 1' - 0''

GENERAL PLUMBING NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- 2. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL
- 3. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- 4. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE
- 5. IF INCOMING WATER PRESSURE IS ABOVE 80 PSI, INSTALL A PRESSURE REDUCING VALVE. INSTALL IN FIRE RISER/MECHANICAL ROOM OR AS HIGH AS POSSIBLE NEAR THE BAR JOIST WHEN NO ROOM IS AVAILABLE.
- 6. REMOVE AND CAP ABOVE CEILING LEVEL ALL DOMESTIC WATER AND VENT PIPING LOCATED IN WALLS THAT ARE TO BE DEMOLISHED.
- 7. WHERE PLUMBING FIXTURES ARE TO BE REMOVED AND RELOCATED OR REPLACED, THE CONTRACTOR SHALL CUT AND REPAIR EXISTING WALLS, FLOORS, AND CEILINGS AS NECESSARY TO MATCH NEW CONDITIONS.

PLUMBING KEYED NOTES

1 REFER TO CIVIL PLANS FOR CONTINUATION.

EI XW MA

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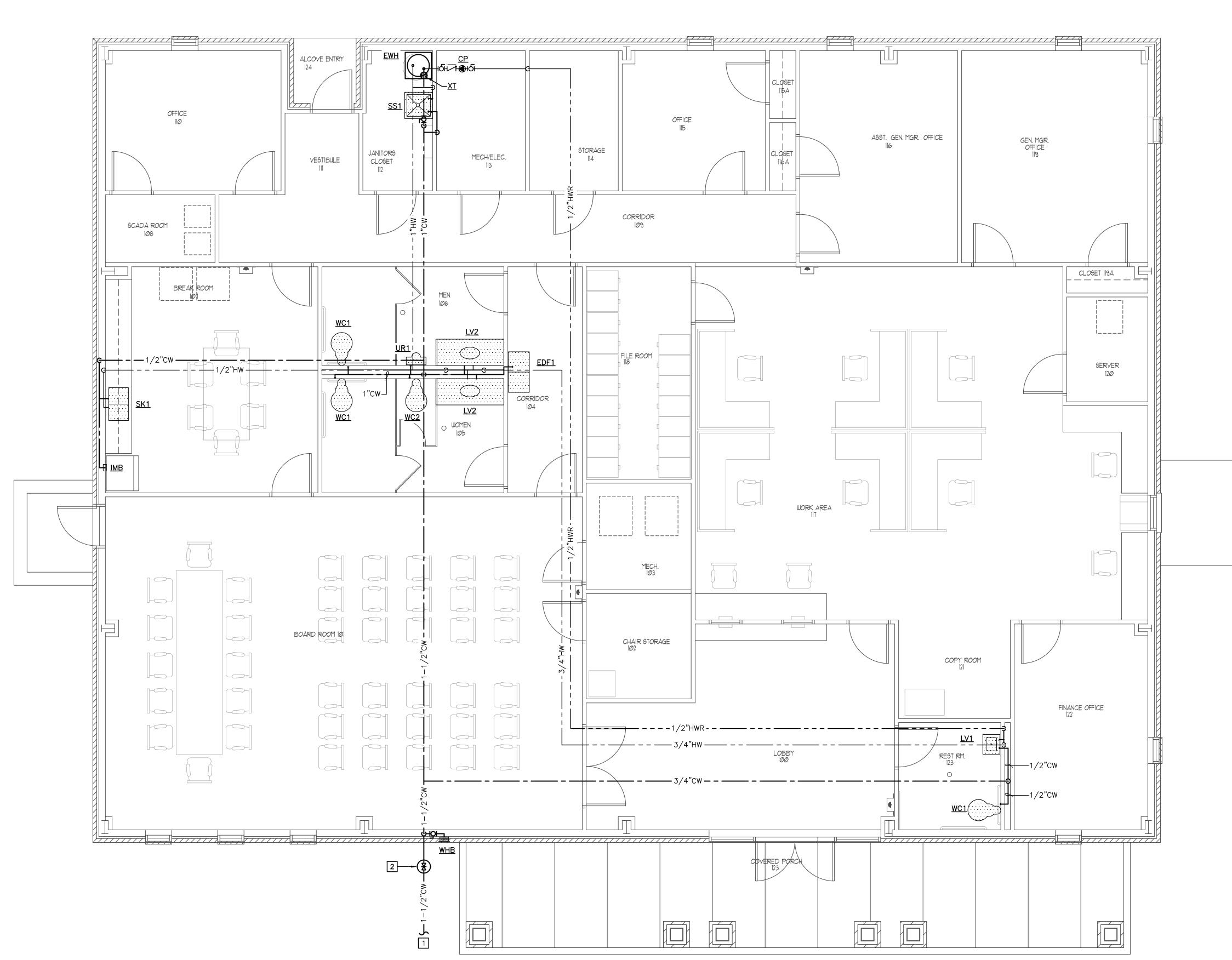
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PLUMBING DWV **PLAN**

DRG REFERENCE



1 PLUMBING WATER PLAN
SCALE: 1/4" = 1' - 0"

SCALE: 1/4'' = 1' - 0''

GENERAL PLUMBING NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- 2. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- 3. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- 4. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- 5. IF INCOMING WATER PRESSURE IS ABOVE 80 PSI, INSTALL A PRESSURE REDUCING VALVE. INSTALL IN FIRE RISER/MECHANICAL ROOM OR AS HIGH AS POSSIBLE NEAR THE BAR JOIST WHEN NO ROOM IS AVAILABLE.

6. REMOVE AND CAP ABOVE CEILING LEVEL ALL DOMESTIC WATER AND VENT

- PIPING LOCATED IN WALLS THAT ARE TO BE DEMOLISHED.

 7. WHERE PLUMBING FIXTURES ARE TO BE REMOVED AND RELOCATED OR
- 7. WHERE PLUMBING FIXTURES ARE TO BE REMOVED AND RELOCATED OR REPLACED, THE CONTRACTOR SHALL CUT AND REPAIR EXISTING WALLS, FLOORS, AND CEILINGS AS NECESSARY TO MATCH NEW CONDITIONS.

PLUMBING KEYED NOTES

- 1 REFER TO CIVIL PLANS FOR CONTINUATION.
- 2 GATE VALVE IN BOX FLUSH WITH GRADE.

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PROJECT NO: 202270

DATE: APRIL 2023

PLUMBING WATER PLAN

P1.2

DRG REFERENCE

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PLUMBING FIXTURE UNITS											
		DR.		WAT	ER SUF	PPLY					
FIXTURE	QTY.	TRAP SIZE	DFU EA	SDFU	WSFU EA	TOT. WSFU	CW WSFU	HW WSFU	PEAK GPM		
WATER CLOSET — FV	0	_	4	0	10	0	0	-	25.00		
WATER CLOSET - TANK	4	_	4	16	5	20	20	_	1.60		
LAVATORY	3	1 1/4"	1	3	2	6	4.5	4.5	0.40		
SERVICE SINK	1	2"	2	2	3	3	2.25	2.25	3.00		
DRINKING FOUNTAIN	2	1 1/4"	0.50	1.00	0.25	0.50	0.50	_	0.75		
URINAL	1	_	2	2	5	5	5	_	12.00		
SINK	1	1 1/2"	2	2	3	3	2	2	1.75		
2" TRAP	0	2"	3	0							
3" TRAP	0	3"	5	0							
HOSE BIBB	1	_	0					_	5.00		
TOTAL FU				26		38	34	9			
TOTAL GPM				13		26	25	14			
PIPE SIZE				4"		1.5"	1.5"	1"			

PLUMBING PIPE MATERIA	LS SCHEDULE
PIPING SYSTEM	PIPING MATERIAL
SANITARY SEWER BELOW GRADE	SCHEDULE 40 DWV PVC
SANITARY DRAIN AND VENTS ABOVE GRADE	SCHEDULE 40 DWV PVC*
DOMESTIC HOT & COLD WATER BELOW GRADE	COPPER, TYPE "K" SOFT
DOMESTIC HOT & COLD WATER ABOVE GRADE	COPPER, TYPE "L" HARD DRAWN
HOT AND COLD WATER PIPE INSULATION	1" RIGID FIBER GLASS
*SCHEDULE 40 DWV PVC SHALL NOT BE USED IN RETU	IRN AIR PLENUMS. WHERE
CEILING PLENUMS ARE USED FOR RETURN AIR, CONTRA	ACTOR SHALL ONLY USE
BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.	

			PLUN	ИВINC	G EQL	JIPMI	ENT SCHEDULE
SYMB.	PLAN MARK	WST &	MINIMUN	ROUGH-	-IN SIZES	S HW	DESCRIPTION
	ELECTRIC WATER HEATER EWH				3/4"		A.O. SMITH NO. DEL-15S-4.5 WATER HEATER: 15 GALLON STORAGE, 23 GPH RECOVERY AT 80°F TEMPERATURE RISE, 4.5 KW SINGLE ELEMENT, 208V-1-60; INSULATED, JACKETED, MAGNESIUM ANODE, ON-OFF SWITCH, 150PSI RATED WORKING PRESSURE, GLASS LINED TANK, ASME TPR VALVE, 6 YEAR WARRANTY, BRASS DRAIN VALVE, AND MFG'S HEAT TRAPS. HOLDRITE NO. 30-SWHP-WM 24"X24" WALL MOUNTED EQUIP. PLATFORM W/ DRAIN FITTING, WATER TIGHT.
0	EXPANSION TANK XT				3/4"		AMTROL No. ST-5-C, HEAVY DUTY BUTYL, FDA APPROVED DIAPHRAGM, POLYPROPYLENE LINED DOME WITH 2.0 GALLON VOLUME. ELBI IS AN EQUIVALENT MANUFACTURER. STRAP TANK TO WALL WITH HOLDRITE QUICK STRAP. TANK SHALL NOT BE SUPPORTED BY THE PIPING THAT CONNECTS TO SUCH TANK.
	CIRCULATING PUMP CP					1/2"	GRUNDFOS MODEL No. UP15-18B5, IN-LINE, LEAD-FREE BRONZE CIRCULATOR. PROVIDE 1/2" SWEAT CONNECTION. 1 PHASE, 85 WATTS, 115 VOLTS, 1/25HP. PROVIDE WITH TIMER, SWITCHES ON AT 6AM, AND OFF AT 8PM. PROVIDE AQUASTAT, SWITCHES PUMP ON AT 105°F, AND OFF AT 115°F. 2 GPM AND 10 FOOT OF HEAD.
	ACCESS DOOR AP1						MIFAB UA ACCESS DOOR: 12"x12", 16 GUAGE SATINCOAT STEEL WALL FLANGE AND DOOR, WHITE PRIMED; INSTALL AT ALL CONCEALED VALVES OR ACCESSORIES IN ACCESSIBLE LOCATION NOT MORE THAN 9'0" AFF; COORDINATE ACCESS PANEL LOCATIONS WITH GENERAL CONTRACTOR.
Ø	DOUBLE CLEANOUT DCO	4"					WADE 8000-12 (MIFAB C1100-4-R-P)(ZURN Z1400)(SMITH 4240)(JOSAM 55000-5) EXTERIOR CLEANOUT: ADJUSTABLE C.I. CLEANOUT AND HOUSING, ABS TAPER PLUG, SPECIAL DUTY ROUND SCORIATED DUCTILE IRON TOP, NON-TILT TRACTOR COVER, ANCHOR IN CONCRETE PAD 42"x18"x6" DEEP, FLUSH WITH GRADE OR SET FLUSH WITH SIDEWALK.
	FLOOR DRAIN FD1 (REST ROOMS)	2"	1-1/2"	2"			WADE 1100-TSD-A6-1 (MIFAB F1100-C)(JOSAM 30000-A)(SMITH 2005-A)(ZURN No.ZN-415B-P)(WATTS FD-100-A) FLOOR DRAIN: CAST IRON DRAIN BODY WITH 1/2" IPS TRAP PRIMER TAP, BOTTOM OUTLET, CLAMPING COLLAR, WEEP HOLES, V.P. SCREWS, ADJUSTABLE TOP; STRAINER: 6" DIAMETER, LIGHT DUTY, NICKEL BRONZE, HEEL PROOF PERFORATED; DEEP SEAL TRAP. PROVIDE PROSET SYSTEMS TRAP GUARD INSERT.
	FLOOR DRAIN FD2 (JANITOR CLOSET)	2"	1-1/2"	2"			WADE 1100-TSD-TS7-X (MIFAB F1100-C-N7)(JOSAM 30000-E-VP)(SMITH 2005-D)(WATTS FD-300-6) FLOOR DRAIN: CAST IRON DRAIN BODY WITH 1/2" IPS TRAP PRIMER TAP, BOTTOM OUTLET, CLAMPING COLLAR, WEEP HOLES, V.P. SCREWS, ADJUSTABLE TOP; STRAINER: 7" DIAMETER, HEAVY DUTY, DUCTILE IRON, TRACTOR TOP; DEEP SEAL TRAP. PROVIDE PROSET SYSTEMS TRAP GUARD INSERT.
	FLOOR DRAIN FD3 (MECHANICAL ROOM)	2"	1-1/2"				WADE 1100-A6-1-TSD (MIFAB F1100)(JOSAM 30000-A)(SMITH 2005)(ZURN No.ZN-415B-P)(WATTS FD-100-A) FLOOR DRAIN: CAST IRON DRAIN BODY WITH 1/2" IPS TRAP PRIMER TAP, BOTTOM OUTLET, CLAMPING COLLAR, WEEP HOLES, V.P. SCREWS, ADJUSTABLE TOP, STRAINER: 6" DIAMETER, LIGHT DUTY, NICKEL BRONZE, HEEL PROOF PERFORATED; DEEP SEAL TRAP. PROVIDE PROSET SYSTEMS TRAP GUARD INSERT.
	WALL CLEANOUT WCO	SEE PLAN	SEE PLAN	SEE PLAN			ZURN NO. ZS1469-7-VP ROUND STAINLESS STEEL ACCESS COVER COMPLETE WITH SECURING SCREW, MIN 5" DIA PROVIDE CLEANOUT PLUG TO MATCH PIPE MATERIAL.
0	WATER HAMMER ARRESTOR WHA	SEE DETAIL	SEE DETAIL	SEE DETAIL			SIOUX CHIEF 650 SERIES WATER HAMMER ARRESTER: TYPE L COPPER TUBE, POLY PISTON WITH TWO EPDM O-RINGS, ASSE 1010 CERT., MAX. 250°F, MAX. 350 PSIG, LEAD FREE, INSTALL TO MANUFACTURES SPECIFICATIONS.
	WALL HYDRANT IN BOX WHB				3/4"		WOODFORD MODEL #B75, MODERATE CLIMATE WALL HYDRANT W/ANTI-SPHON VACUUM BREAKER ENCLOSED IN A BRASS FLUSH WALL BOX.

				PL	UMBII	RE SCHEDULE		
Ī	Ł	REFER TO ARCHITECTURA	AL TAS/ADA	A SHEETS	AND TAS	/ADA RE	GULATION	IS FOR MOUNTING HEIGHTS AND CLEARANCES.
İ	SYMB.	PLAN MARK			A ROUGH-		1	DESCRIPTION
-		FLEO DENIMINA FOLINTA		VENT	DRAIN	CW	HW	
		ELEC. DRINKING FOUNTA EDF1 (BI LEVEL COOLER)		1-1/2	1-1/2"	1/2"		ELKAY NO. EZSTL8WSLK "HI—LO" BARRIER FREE WATER COOLER AND BOTTLE STATION: TAS COMPLIANT, 8 GPH CAPACITY, WALL HUNG, STANDARD FINISH, COLOR TO BE SELECTED BY ARCHITECT, S.S. TOP WITH INTEGRAL STRAINER, FRONT & SIDE PUSH BARS, AUTOMATIC STREAM REGULATOR, THERMOSTAT, AIR COOLED, R—134A, AND STANDARD FACTORY WARRANTY, 1/5 HP, 120V—1—60, MOUNT AT MAX. 36" FROM FLOOR TO LOWER SPOUT OUTLET AND MIN. 38—43" MAX. FOR UPPER UNIT; LKAPREZL CANE TOUCH APRON: ABS PLASTIC, MOUNT ON UPPER UNIT; ZURN Z—1225—BL C.I. WALL CARRIER; WASTE: 1—1/4" 17 GA C.P. BRASS TAILPIECE, 1—1/4" 17 GA BRASS C.P. ADJ. "P"—TRAP W/C.P. BRASS NUTS; SUPPLY: C.P. ANGLE SUPPLY W/STOP, 3/8" FLEX TUBE RISER.
		LAVATORY LV1 (WALL HUNG)	2"	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD NO.0355.012 "LUCERNE" WALL MOUNTED LAVATORY: TAS COMPLIANT, WHITE, FRONT OVERFLOW, CONCEALED WALL CARRIER, 4" O.C. TAPPING; MIFAB MC-41 SERIES FLOOR MOUNTED CONCEALED ARM CARRIER WITH TWO UPRIGHTS; WATTS P1070 FAUCET: C.P. BRASS BODY, 0.5 GPM AERATOR, DECK PLATE, ASSE 1070, SET AT 105°F; WASTE: 1-1/4" 17 GA C.P. BRASS TAILPIECE WITH GRID STRAINER, 1-1/4" 17 GA BRASS C.P. ADJ. "P"-TRAP W/C.O. AND C.P. BRASS NUTS, ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES W/STOPS, 3/8" FLEX TUBE RISERS, ESCUTCHEONS. PROVIDE TRUEBRO FACTORY CUT LAV SHIELD NO. 2018-AS-L FOR EXPOSED PIPING. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
		LAVATORY LV1 (COUNTER MOUNT)	2"	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD NO. 0476.028 "AQUALYN" SELF RIMMING LAVATORY: TAS COMPLIANT, WHITE, V.C., FRONT OVERFLOW 4" O.C. TAPPINGS; WATTS P1070 (CHICAGO 420—T45E2805ABCP) FAUCET: C.P. 0.5 AERATOR, DECK PLATE, SINGLE LEVER HANDLE, HOT AND COLD WATER MIXING THERMOSTATIC, ASSE 1070 CERTIFIED, SET AT 105°F; WASTE: 1—1/4" 17 GA C.P. BRASS OFFSET TAILPIECE WITH GRID STRAINER, 1—1/4" 17 GA BRASS C.P. ADJ. "P"—TRAP W/C.O., ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES W/STOPS, 3/8" FLEX TUBE RISERS, ESCUTCHEONS; PROVIDE TRUEBRO 103 EZ SERIES INSULATION KIT ON EXPOSED PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
	0	SINK SK1 (SINGLE COMPARTMENT)	2"	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY LRAD191860L "LUSTERTONE" SINK: TAS COMPLIANT, 18 GA. TYPE 302 S.S., SATIN FINISH, SELF RIMMING, FITTING DECK, BACK LEDGE, SOUND DAMPENER, 3—HOLE, 19"x18"x6", REAR OFFSET DRAIN; WATTS GP1070 "LAVSAFE" FAUCET: C.P. BRASS, 6" GOOSENECK, DECK MOUNT, SINGLE LEVER HANDLE, 2.0 GPM VR AERATOR, HOT AND COLD WATER MIXING THERMOSTATIC, ASSE 1070 CERTIFIED, SET AT 105°F; WASTE: LK—35 3—1/2" S.S. DRAIN BODY, BASKET STRAINER, 1—1/2" TAILPIECE; 1—1/2" 17GA. C.P. BRASS ADJ. "P"—TRAP W/C.O., ESCUTCHEON; SUPPLY: C.P. ANGLE SUPPLIES WITH STOPS, 1/2" FLEX TUBE RISERS, ESCUTCHEONS; TRUEBRO 102—EZ INSULATION KIT FOR TAS/ADA.
		SERVICE SINK SS1 (FLOOR MOUNTED)	3"	2"	3"	1/2"	1/2"	FIAT MSB-2424 SERVICE SINK: PRE-CAST MOLDED STONE, FLOOR TYPE, 24"x24"x10", FIELD FABRICATED S.S. CAP ON ALL CURBS; NO. 830-AA C.P. SINK FAUCET: VACUUM BREAKER, INTEGRAL STOPS, ADJ. WALL BRACE, PAIL HOOK, 3/4" HOSE END SPOUT, 4-ARM HANDLES (MOUNT 36" AFF); WASTE: NO. 874 DRAIN, INTEGRAL C.P. STRAINER; NO. 832-AA HOSE & BRACKET; NO. 833-AA SEALANT; NO. 889-CC 3 MOP HANGER BRACKET.
		URINAL UR1	2"	2"	1-1/2"	3/4"		AMERICAN STANDARD NO. 6550.001 "ALLBROOK" (KOHLER NO. K-5016-ET "DEXTER") URINAL: TAS COMPLIANT, SIPHON JET, V.C., WHITE, WALL HUNG, 3/4" TOP SPUD, 0.5 GAL. FLUSH, 14" LIP, MOUNT AT 17" A.F.F. TO TOP OF LIP; SLOAN ROYAL NO.186-0.5 FLUSH VALVE: 0.5 GPF, DIAPHRAGM TYPE, EXPOSED, C.P., 3/4" VACUUM BREAKER TOP SPUD, MANUAL OPERATED; ZURN ZR-1222 C.I. WALL CARRIER: C.I., FLOOR MOUNTED.
		WATER CLOSET WC1 (TANK TYPE)	4"	3"	4"	1/2"		AMERICAN STANDARD 215AA.104 "CADET" FLUSH TANK WATER CLOSET: ADULT TAS COMPLIANT, 17"-19" MAX. TOP OF SEAT, ELONGATED, V.C., WHITE, FLOOR MOUNTED, 1.28 GPF SIPHON FLUSH, BOLT CAPS, CLOSET SEAL, MOUNT WITH HANDLE AT WIDE SIDE OF STALL; CHURCH 255SSC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SUPPLY: C.P. ANGLE SUPPLY WITH STOP, 3/8" FLEX TUBE RISER, ESCUTCHEON.
		WATER CLOSET WC2 (TANK TYPE)	4"	3"	4"	1/2"		AMERICAN STANDARD 215CA.104 "CADET" FLUSH TANK WATER CLOSET: 15" TOP OF SEAT, ELONGATED, V.C., WHITE, FLOOR MOUNTED, 1.28 GPF SIPHON FLUSH, BOLT CAPS, CLOSET SEAL, MOUNT WITH HANDLE AT WIDE SIDE OF STALL; CHURCH 255SSC SEAT: ELONGATED, PLASTIC, WHITE, OPEN FRONT, SS POSTS, SELF SUSTAINING CHECK HINGE; SUPPLY: C.P. ANGLE SUPPLY WITH STOP, 3/8" FLEX TUBE RISER, ESCUTCHEON.

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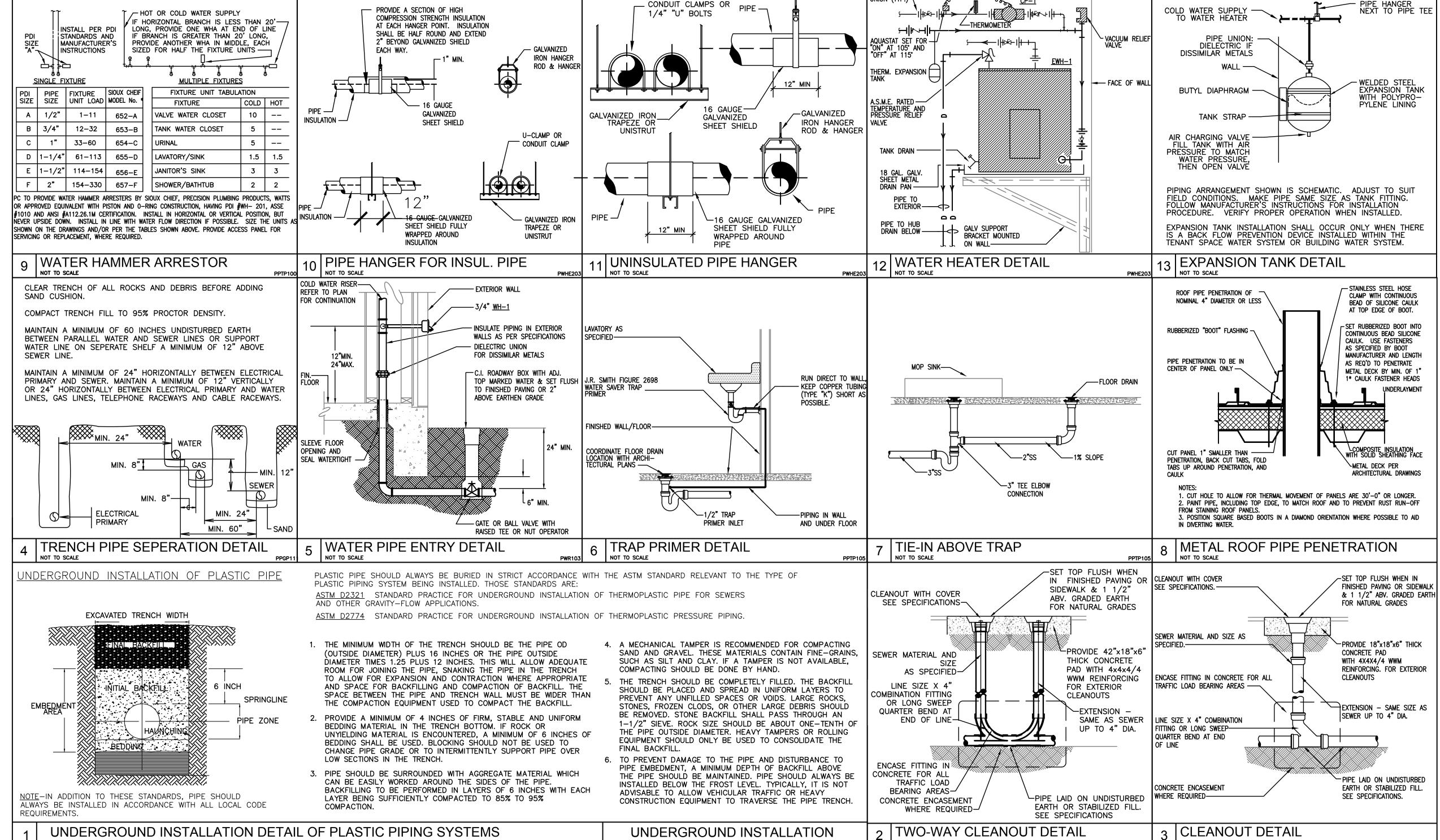
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PURPOSES. April 27 2023

DATE: **APRIL 2023 PLUMBING**

DETAILS

ORG REFERENCE



2 TWO-WAY CLEANOUT DETAIL