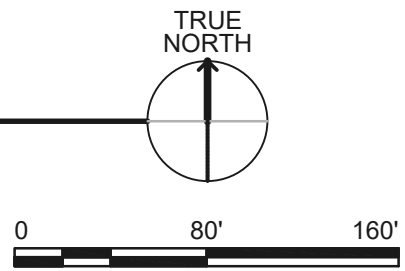




A1

TEMPORARY MV POWER LINE



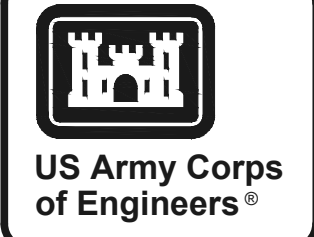
- NOTES
1. TEMPORARY CONNECTION MV CONDUCTORS TO BE IN 5" PVC-80 CONDUIT WITH (3) 4/0 15kV 133% INSULATION ALUMINUM CONDUCTORS + #2 G CONDUCTORS.
  2. DIRECT BURY (OPEN TRENCH) EXCEPT WHERE REQUIRED TO HORIZONTAL DRILL.
  3. ESCORTS REQUIRED FOR ALL WORK PERFORMED ON SECURE SIDE OF FENCE, UNLESS WORK IS BEING PERFORMED IN AN ESTABLISHED FREE ZONE IDENTIFIED IN THIS CONTRACT'S DOCUMENTS
  4. ALL CONDUITS TO BE BURIED MINIMUM 42" BELOW GRADE.

BUCKLEY SFB, COLORADO  
POWER INDEPENDENCE, MISSION CONTROL STATION

TEMPORARY MV POWER LINE

SHEET ID

ET100



MARK	DESCRIPTION	DATE

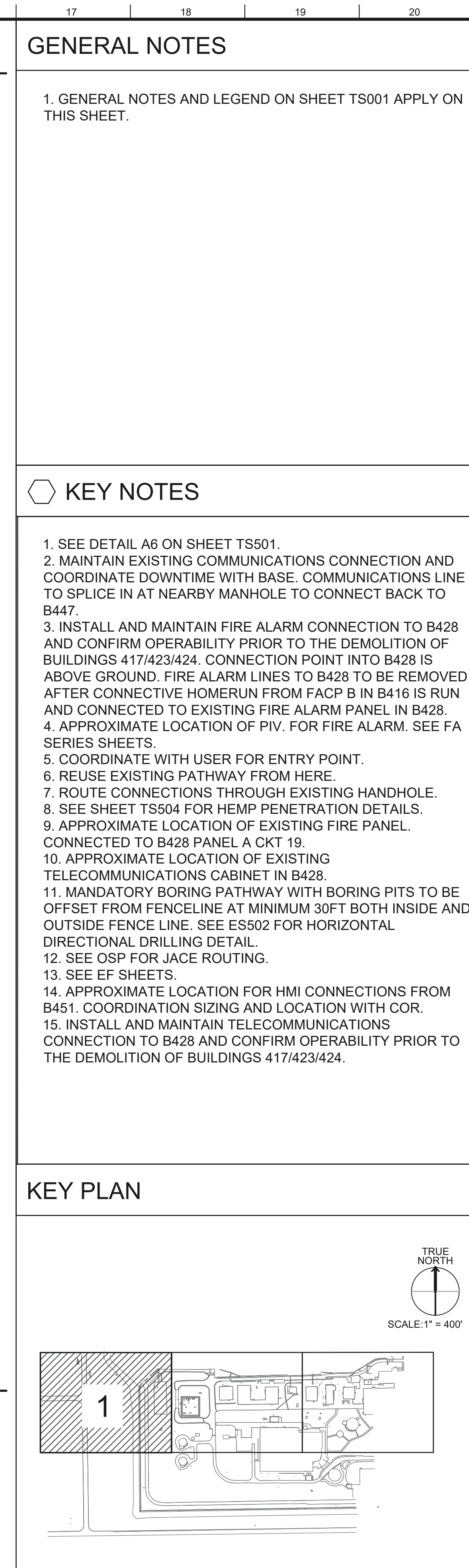
DESIGNED BY: E. MCNAMARA	ISSUE DATE: 05/07/2025
DRAWN BY: S. LINDGREN	SOLICITATION NO.: 0516-CP-03
CHECKED BY: S. LINDGREN	CONTRACT NO.:
SUBMITTED BY: S. LINDGREN	FILE NUMBER:
SIZE: ANSI D	FILENAME: BUCC00102C01-104.dwg

U.S. ARMY CORPS OF ENGINEERS  
OMAHA DISTRICT  
1616 CAPITOL AVE  
OMAHA, NE 68102

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P:\0604 - PROJECTS\BUC00102\PLAN SETS\03 - SHEETS\03 - SITE\BUCC00102-ET001.DWG  
3:40:17 PM 6/27/2025  
G8DEDSM





1. GENERAL NOTES AND LEGEND ON SHEET TS001 APPLY ON THIS SHEET.

1. SEE DETAIL A6 ON SHEET TS501.
2. MAINTAIN EXISTING COMMUNICATIONS CONNECTION AND COORDINATE DOWNTIME WITH BASE. COMMUNICATIONS LINE TO SPLICE IN AT NEARBY MANHOLE TO CONNECT BACK TO B447.
3. INSTALL AND MAINTAIN FIRE ALARM CONNECTION TO B428 AND CONFIRM OPERABILITY PRIOR TO THE DEMOLITION OF BUILDINGS 417/423/424. CONNECTION POINT INTO B428 IS ABOVE GROUND. FIRE ALARM LINES TO B428 TO BE REMOVED AFTER CONNECTIVE HOMERUN FROM FACP B IN B416 IS RUN AND CONNECTED TO EXISTING FIRE ALARM PANEL IN B428.
4. APPROXIMATE LOCATION OF PIV. FOR FIRE ALARM. SEE FA SERIES SHEETS.
5. COORDINATE WITH USER FOR ENTRY POINT.
6. REUSE EXISTING PATHWAY FROM HERE.
7. ROUTE CONNECTIONS THROUGH EXISTING HANDHOLE.
8. SEE SHEET TS504 FOR HEMP PENETRATION DETAILS.
9. APPROXIMATE LOCATION OF EXISTING FIRE PANEL. CONNECTED TO B428 PANEL A CXT 19.
10. APPROXIMATE LOCATION OF EXISTING TELECOMMUNICATIONS CABINET IN B428.
11. MANDATORY BORING PATHWAY WITH BORING PITS TO BE OFFSET FROM FENCELINE AT MINIMUM 30FT BOTH INSIDE AND OUTSIDE FENCE LINE. SEE ES502 FOR HORIZONTAL DIRECTIONAL DRILLING DETAIL.
12. SEE OSP FOR JACE ROUTING.
13. SEE EF SHEETS.
14. APPROXIMATE LOCATION FOR HMI CONNECTIONS FROM B451. COORDINATION SIZING AND LOCATION WITH COR.
15. INSTALL AND MAINTAIN TELECOMMUNICATIONS CONNECTION TO B428 AND CONFIRM OPERABILITY PRIOR TO THE DEMOLITION OF BUILDINGS 417/423/424.

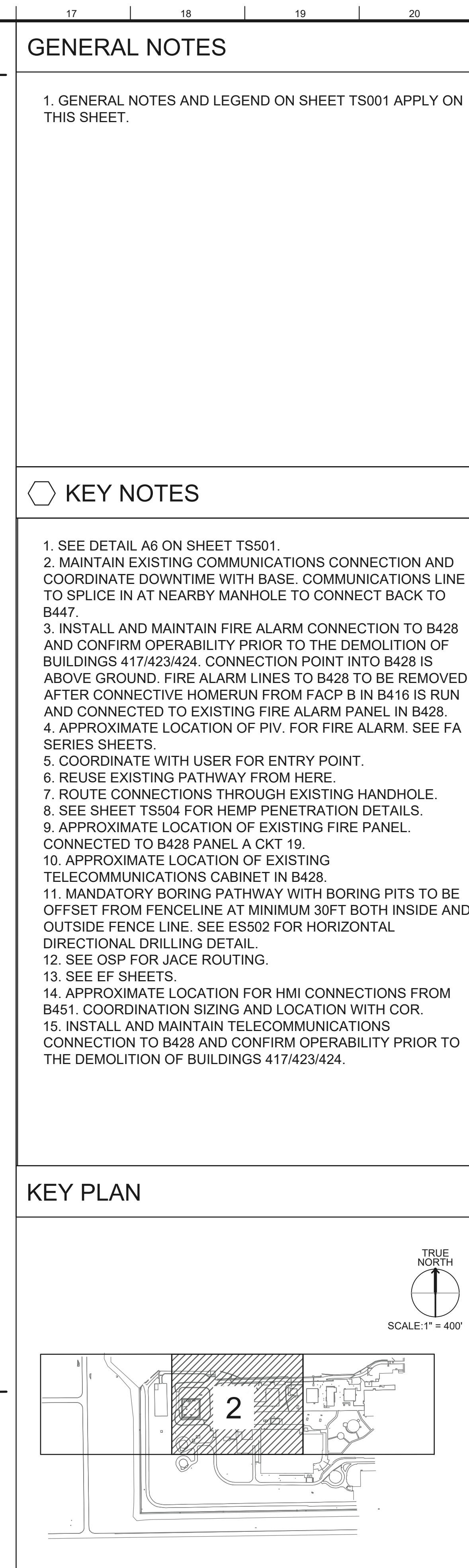
TRUE NORTH

SCALE: 1" = 400'

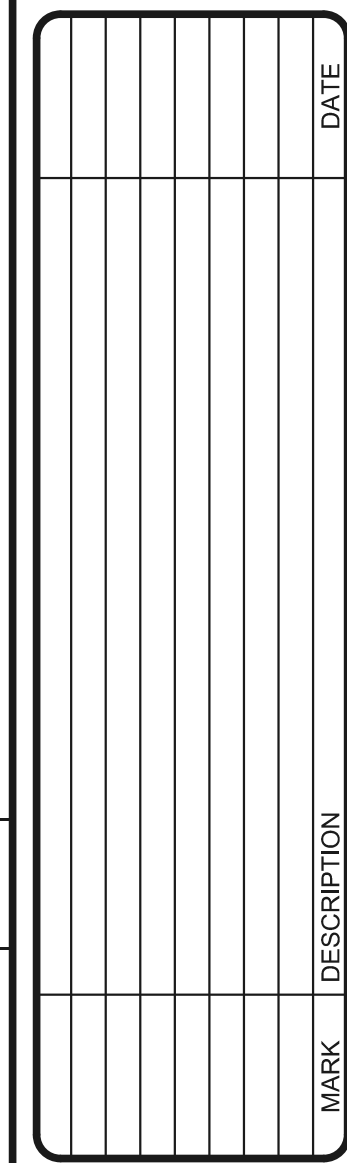
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This architectural drawing shows a plan view of a building. A section of the building on the left is highlighted with diagonal hatching and labeled with the number '1'. The drawing includes a north arrow pointing upwards, labeled 'TRUE NORTH', and a scale of 1 inch = 400 feet. The building's layout includes various rooms, corridors, and a large open area on the right. The drawing is oriented horizontally on the page.





1. GENERAL NOTES AND LEGEND ON SHEET TS001 APPLY ON THIS SHEET.



1. SEE DETAIL A6 ON SHEET TS501.
2. MAINTAIN EXISTING COMMUNICATIONS CONNECTION AND COORDINATE DOWNTIME WITH BASE. COMMUNICATIONS LINE TO SPLICE IN AT NEARBY MANHOLE TO CONNECT BACK TO B447.
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U.S. ARMY CORPS OF ENGINEERS OMAHA DISTRICT 1616 CAPITOL AVE OMAHA, NE 68102	DESIGNED BY: EIMCINARA 05/01/2025	ISSUE DATE: 05/01/2025
	DRAWN BY: EIMCINARA	SOLICITATION NO.: W812BF25R0A03
	CHECKED BY: EIMCINARA	CONTRACT NO.: 0000000000000000
	DATE SUBMITTED: 05/01/2025	FILE NUMBER: 0000000000000000
	SIZE: ANSI D	FILENAME: BUC000102-TS001-999.dwg

TRUE NORTH

SCALE: 1" = 400'

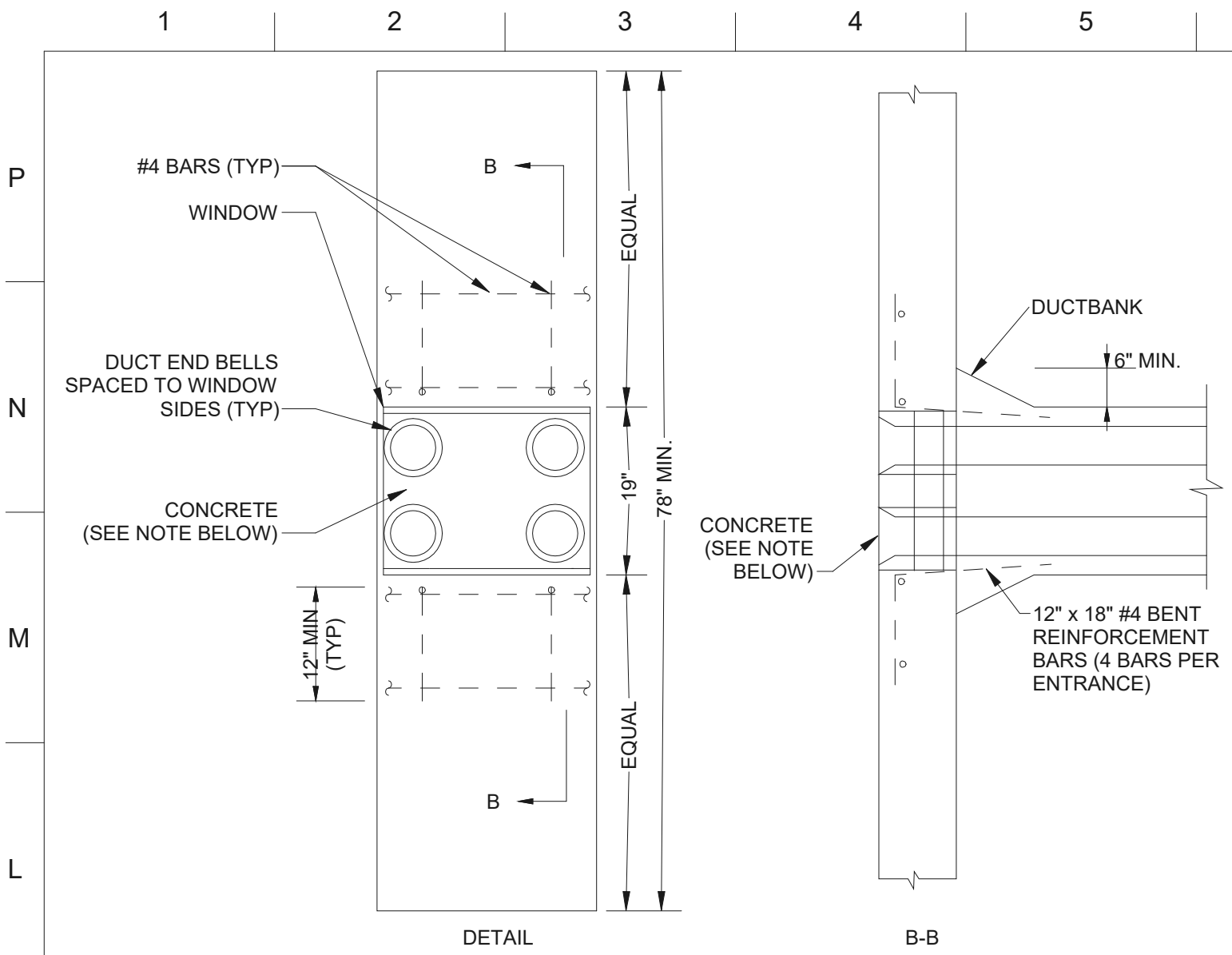
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BUCKLEY SFB, COLORADO  
POWER INDEPENDENCE, MISSION CONTROL STATION  
TELECOMMUNICATIONS SITE PLAN - AREA 2

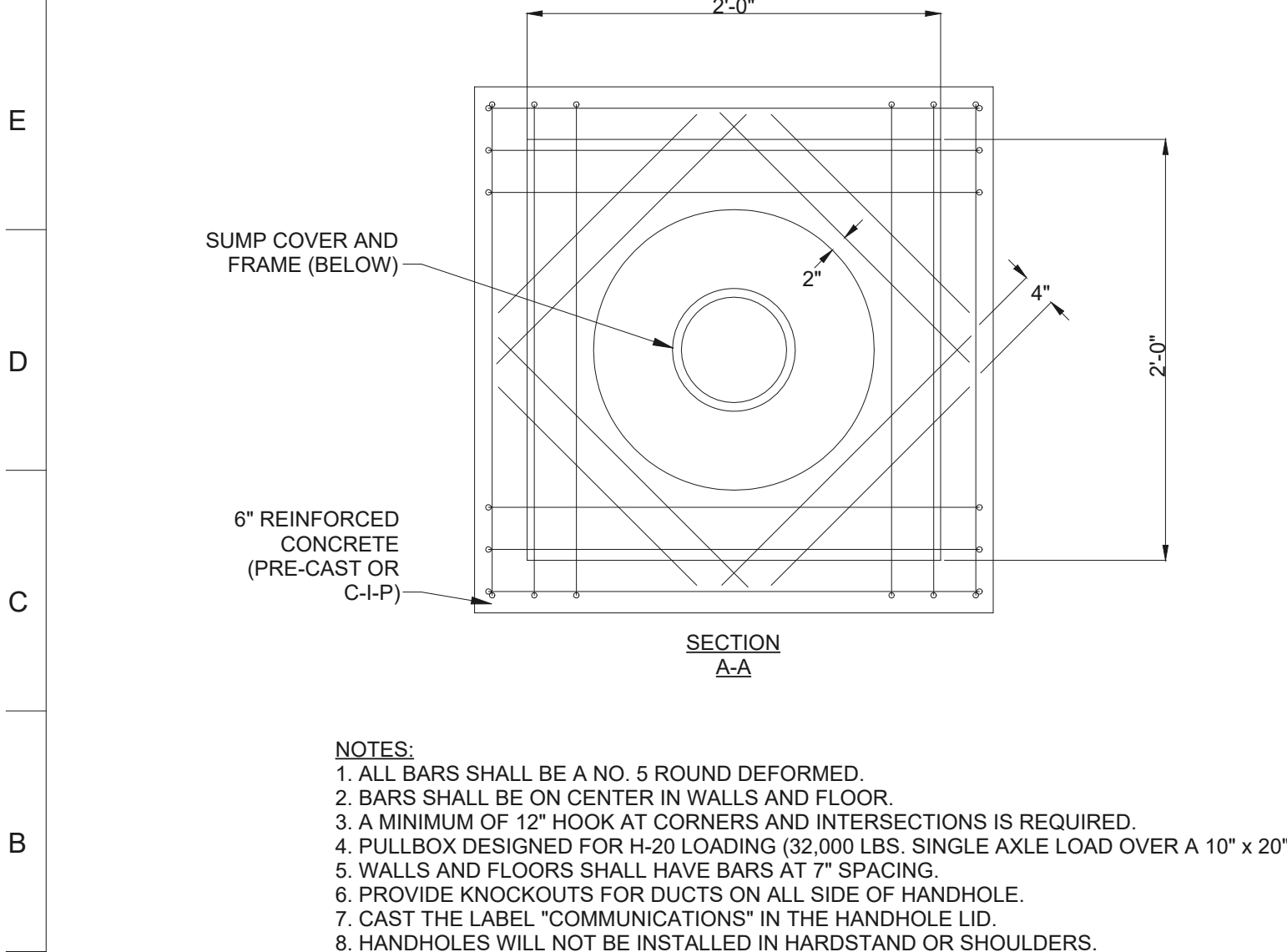
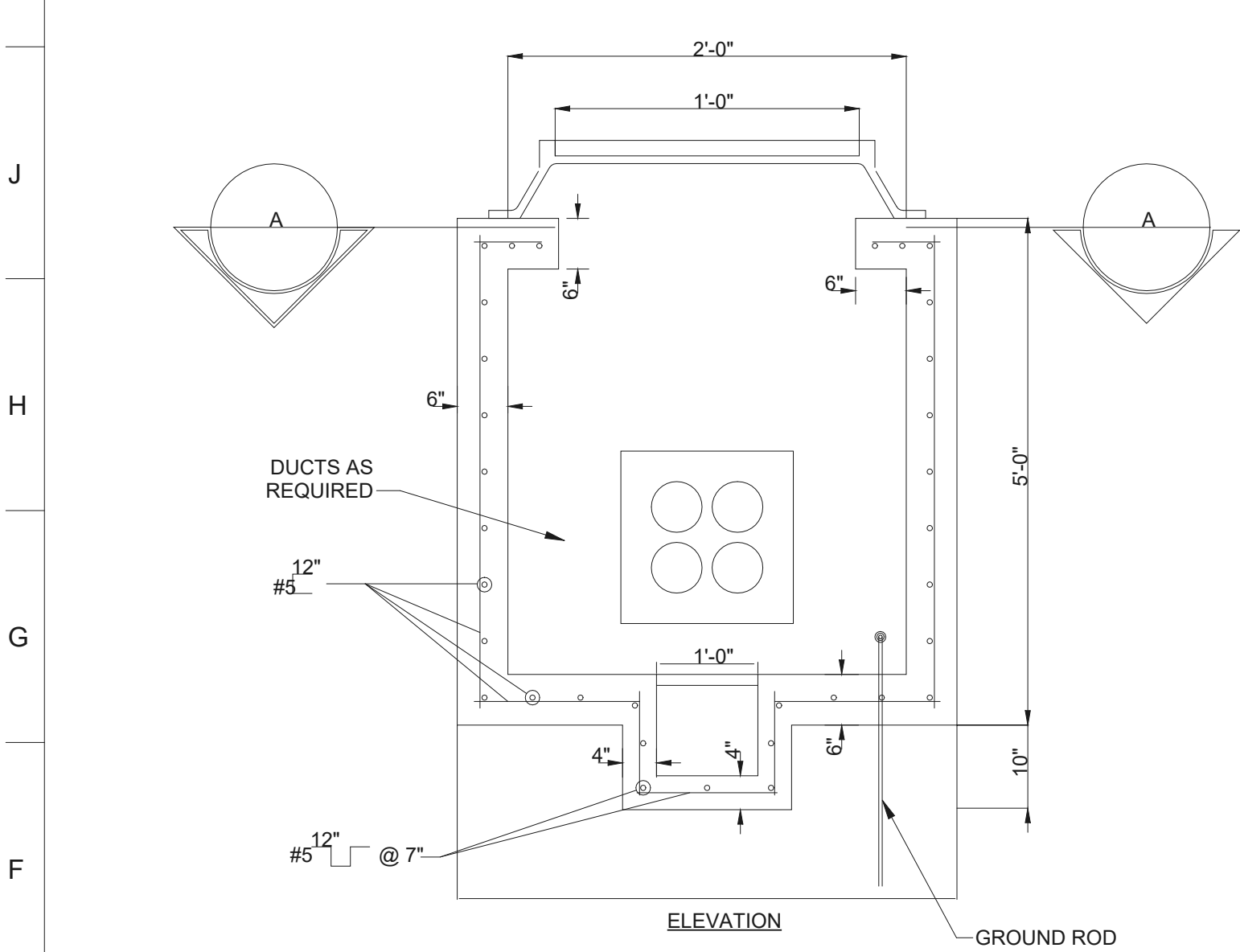
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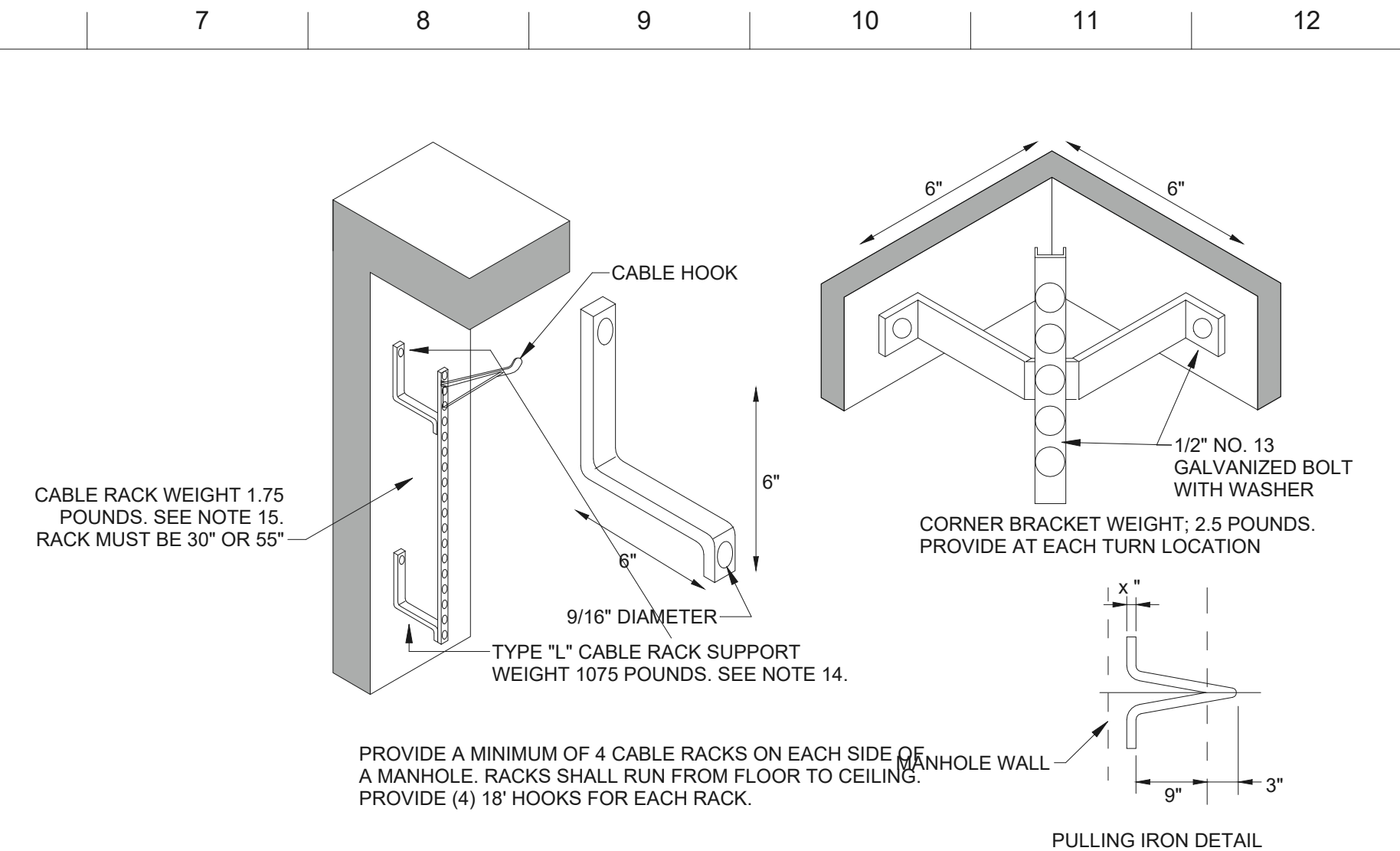




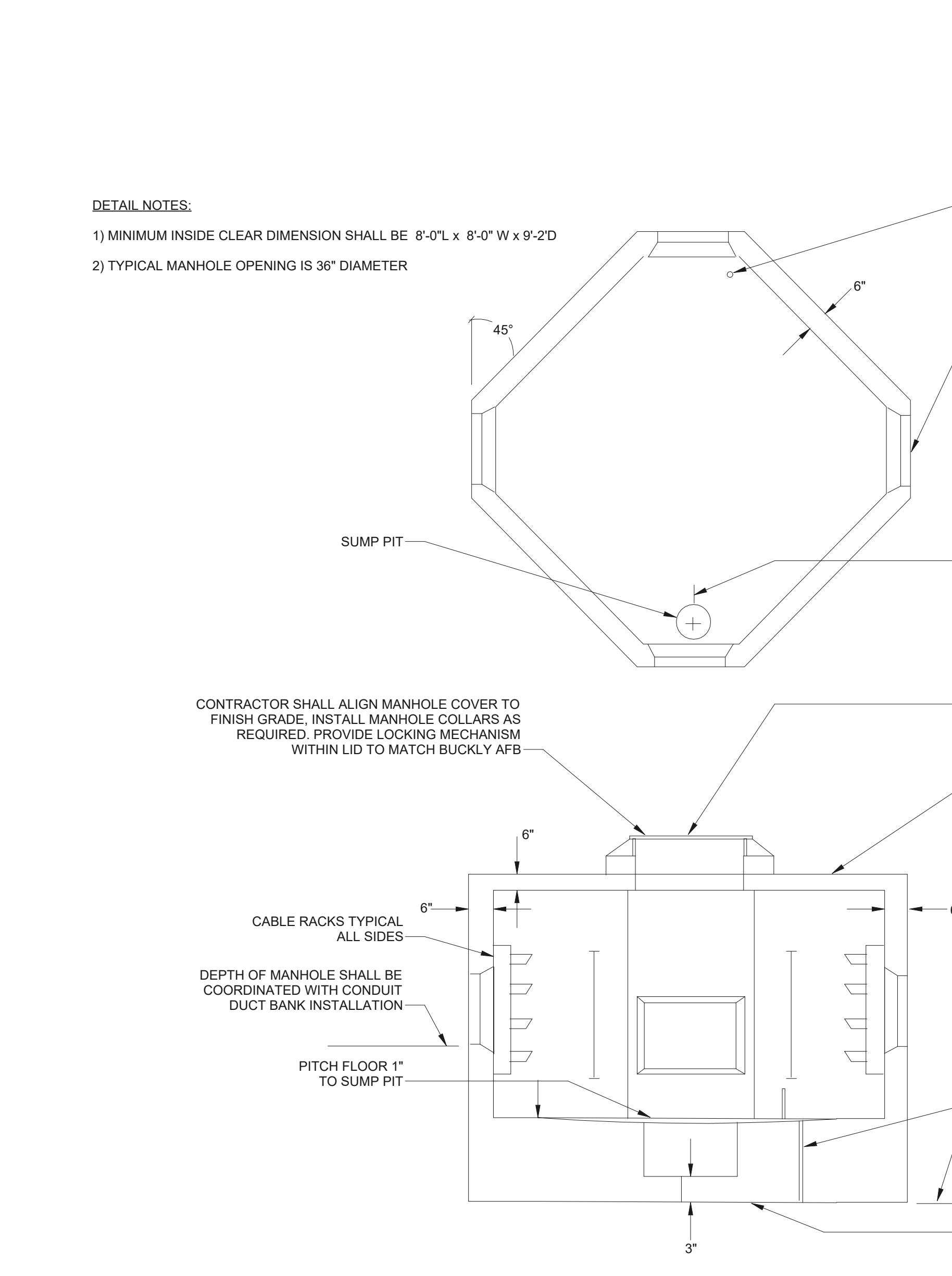
**K1** DUCTBANK WINDOW DETAIL  
SCALE: NTS



**A1** NEW PRECAST COMMUNICATIONS  
2x2x5 HANDHOLE  
SCALE: NTS

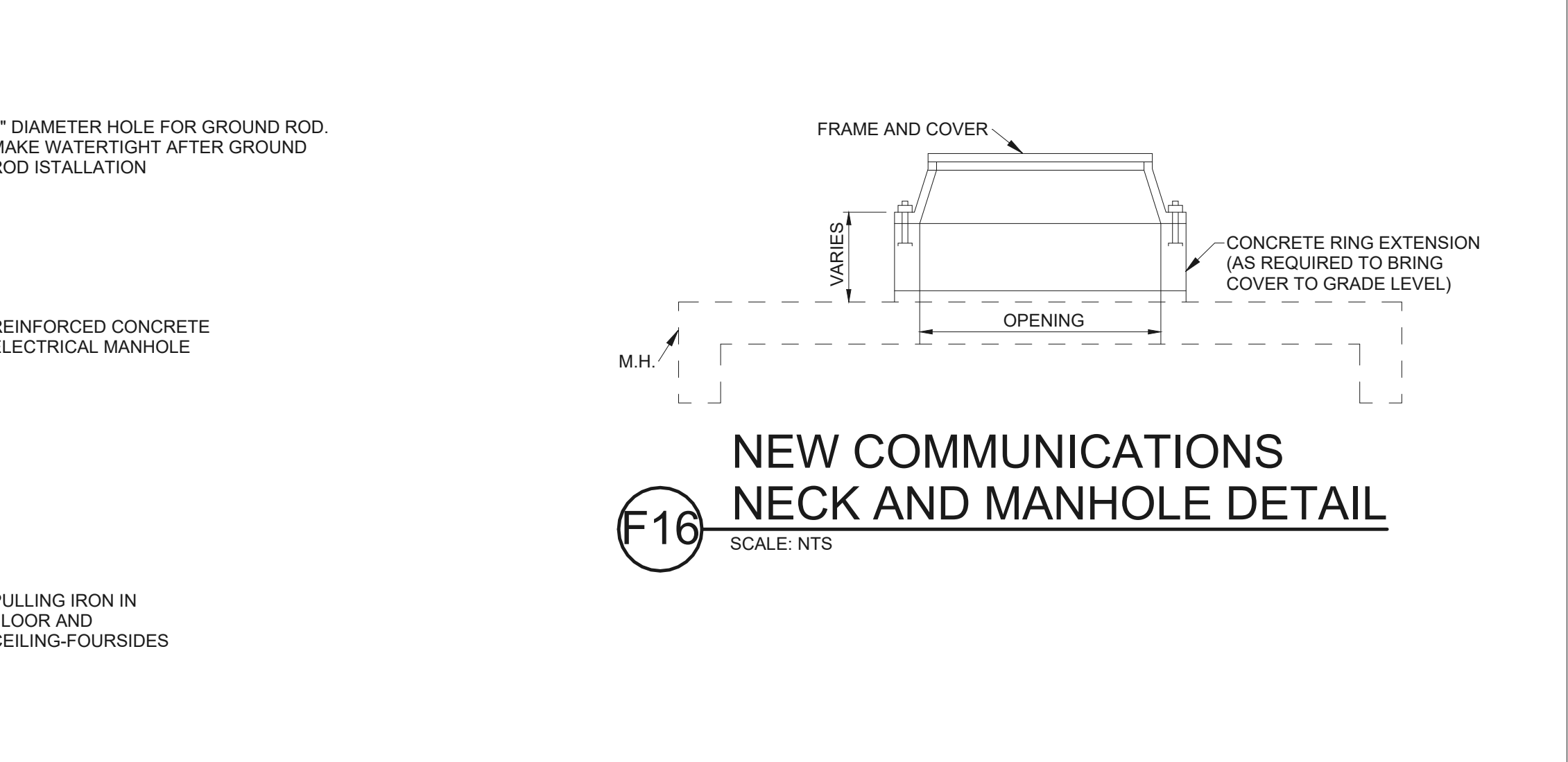


**A6** COMMUNICATIONS MANHOLE  
SCALE: NTS



**F16** NEW COMMUNICATIONS  
NECK AND MANHOLE DETAIL  
SCALE: NTS

- NEW COMMUNICATIONS MANHOLE/HANDHOLE INSTALLATION NOTES:**
1. DEPTH OF COMMUNICATION MANHOLES/HANDHOLES SHALL BE NO LESS THAN 24" OF COVER. MANHOLES/HANDHOLES SHALL BE POSITIONED SO THAT NO DUCT TERMINATORS WILL BE OBSTRUCTED AND WILL ENSURE THAT FUTURE DUCTS SHALL BE EASILY INSTALLED. NEW DUCTS SHALL BE PLACED IN THE LOWEST TERMINATORS. ADDITIONAL DEPTH SHALL BE ADDED AS NECESSARY TO PROVIDE A CLEAR AREA IN FRONT OF THE TERMINATOR BANKS VOID OF ANY OTHER UTILITY CONFLICTS.
  2. ALL NEW COMMUNICATION MANHOLES/HANDHOLES SHALL BE AS SHOWN ON THIS SHEET. THE DUCT TERMINATION OPENINGS (SIZE, NUMBER, AND CONFIGURATION) SHALL BE COORDINATED WITH AND APPROVED BY THE BASE NEC (NETWORK ENTERPRISE CENTER) THROUGH THE CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO ORDERING.
  3. THE EXACT LOCATION, ORIENTATION, CABLE RACK (TYP) ATTACHED TO S OR L CABLE RACK SUPPORT
  4. CROSSOVERS IN COMMUNICATION MANHOLES/HANDHOLES SHALL NOT BE ALLOWED.
  5. DUCTS SHALL EXTEND PERPENDICULAR TO MANHOLE/HANDHOLE WALL FOR A MINIMUM OF 10 FEET BEFORE ANY BENDS WILL BE ALLOWED.
  6. MANHOLES/HANDHOLES SHALL BE DESIGNED FOR AASHTO H20 WHEEL AND SOIL LOADING.
  7. PROVIDE 3/4"x10" GROUND ROD IN EACH MANHOLE/HANDHOLE TO BE LOCATED IN THE REAR CORNER OPPOSITE THE SIDE TERMINATOR.
  8. PULLING IRONS SHALL BE INSTALLED ON EACH WALL.
  9. CABLE RACKS SHALL BE INSTALLED THE ENTIRE LENGTH OF THE MANHOLE/HANDHOLE.
  10. SEE COMMUNICATIONS MANHOLE FOLD-OUT NOTES, SHEET TS502 FOR DEFINITION OF MANHOLE FOLD-OUT INFORMATION FOR THE NEW COMMUNICATION MANHOLES SHOWN ON THE SITE PLANS.
  11. TYPE B MANHOLE FRAME (TYP).
  12. PLASTIC DUCT TERMINATORS ARE OPTIONAL FOR MAIN CONDUIT ENTRANCE.
  13. THE DUCTS SHALL ENTER THE MANHOLE/HANDHOLE IN THE LOWER PORTION OF THE KNOCKOUT WINDOW TO SIMPLIFY FUTURE CONDUIT ADDITIONS.
  14. CABLE RACK SUPPORT (TYP).
  15. CABLE RACK (TYP.) ATTACHED TO S OR L CABLE RACK SUPPORT
  16. INSTALL A LADDER THAT IS ATTACHED AT THE TOP AND BOTTOM OF MANHOLE/HANDHOLE.
  17. BONDING RIBBON SHALL BE INSTALLED IN ALL NEW MANHOLES/HANDHOLES. THE BONDING RIBBON SHALL BE ATTACHED TO ALL RACK ANCHORS AND INSTALLED AROUND THE INTERIOR OF EACH HANDHOLE SO THE SPLICE ENCLOSURE(S) CAN BE BONDED TO IT.
  18. VACANT DUCTS SHALL BE SEALED WITH A MECHANICAL, SCREW-TYPE, REUSABLE DUCT PLUG.
  19. ALL NEW MANHOLES/HANDHOLES SHALL BE STENCILED WITH A NUMBER DESIGNATED BY THE BASE COMMUNICATIONS SQUADRON. COORDINATE WITH THE COR.
  20. CONNECT GROUND ROD TO BONDING RIBBONS.
  21. MANHOLE/HANDHOLE GROUND OHM TEST SHALL BE AT 25 OHMS OR LESS. N. AND DUCT TERMINATION USAGE OF EACH COMMUNICATIONS MANHOLE/HANDHOLE SHALL BE COORDINATED AND APPROVED BY THE BASE NEC (NETWORK ENTERPRISE CENTER) THROUGH THE CONTRACTING OFFICER'S REPRESENTATIVE. INSTALLATION OF THE RESPECTIVE MANHOLE/HANDHOLE SHALL NOT COMMENCE PRIOR TO APPROVAL.
  22. ALL COMMUNICATIONS MANHOLES SHALL MEET AASHTO H20 LOADING REQUIREMENTS.



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05/07/2025	S. BLASER	OMAHA DISTRICT
SOLUTION NO.: W9128-23-0003	DRAWN BY: S. BLASER	1616 CAPITOL AVE.
CONTRACT NO.:	CHECKED BY: J. COOK	OMAHA, NE 68102
	SUBMITTED BY: S. LINDGREN	
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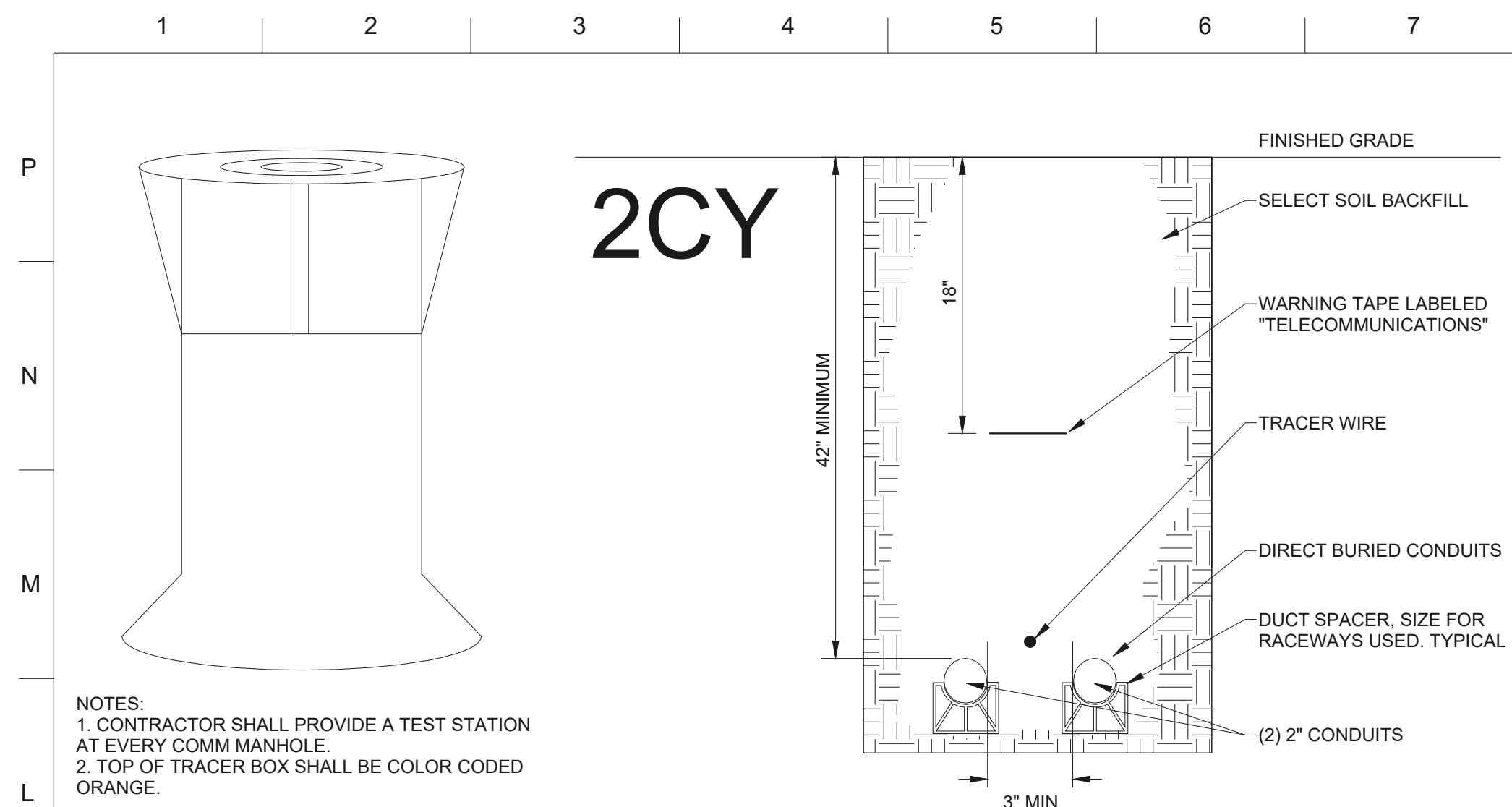
BUCKLEY SFB, COLORADO  
POWER INDEPENDENCE, MISSION CONTROL STATION

TELECOMMUNICATIONS SITE DETAILS

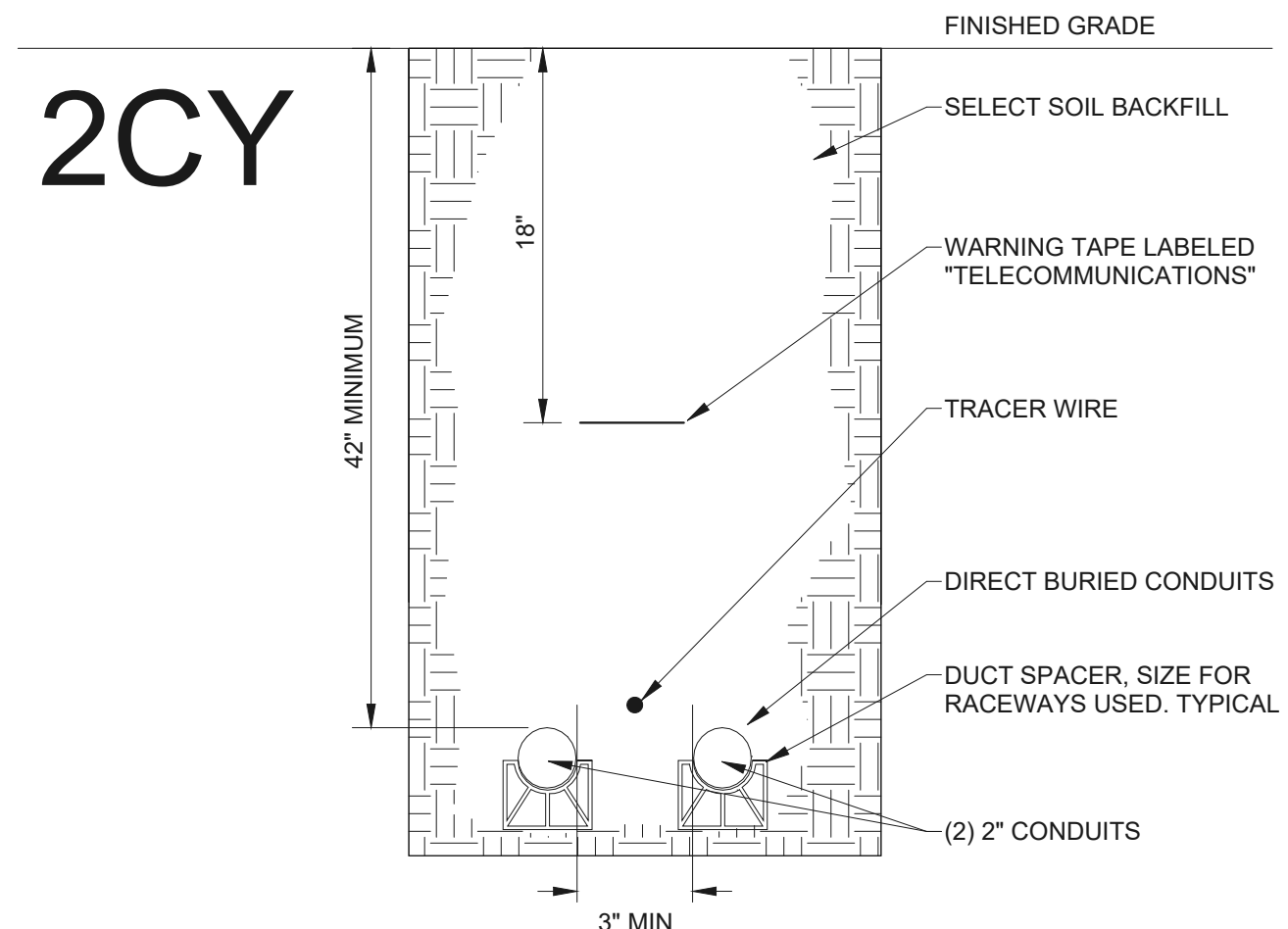
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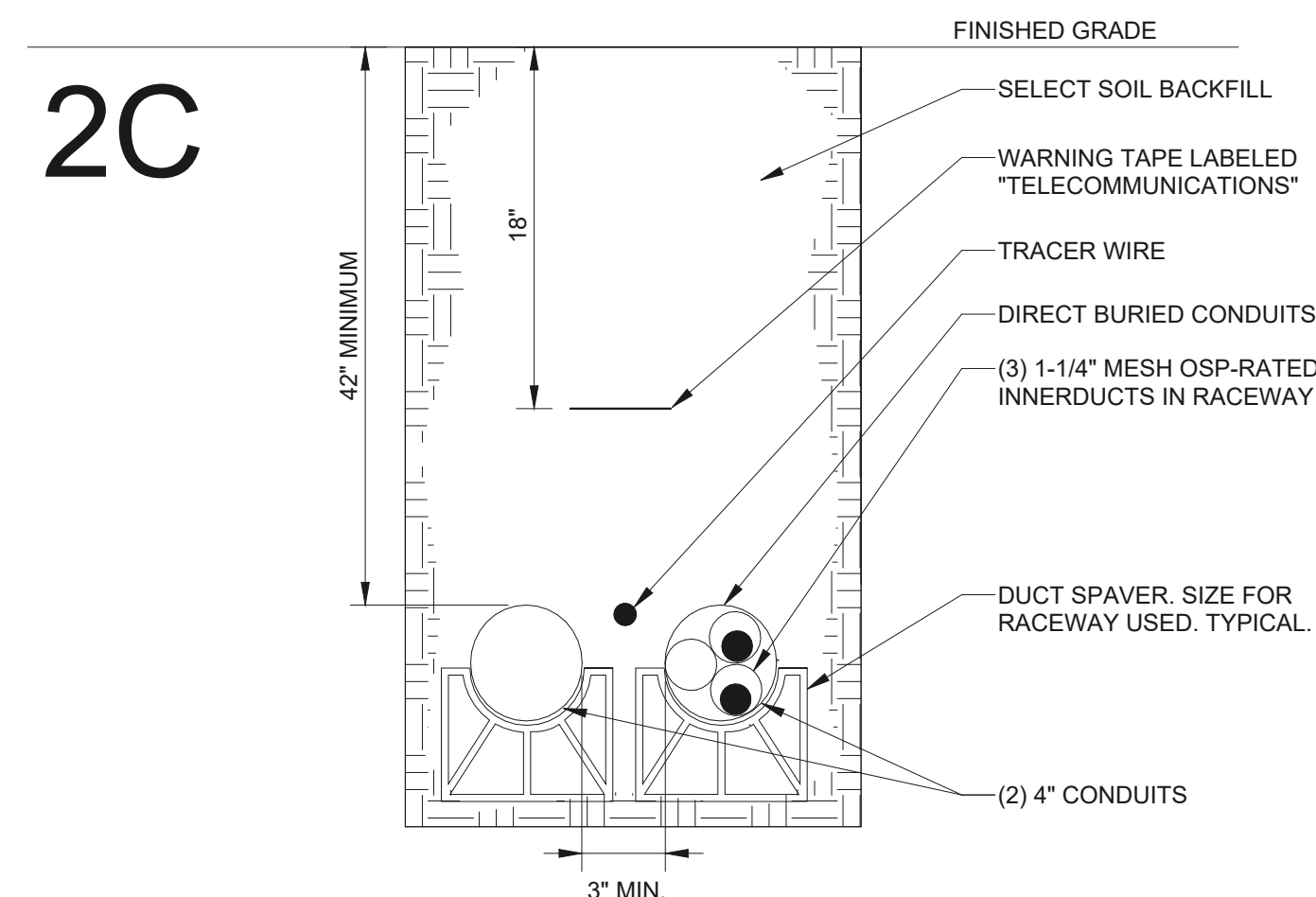




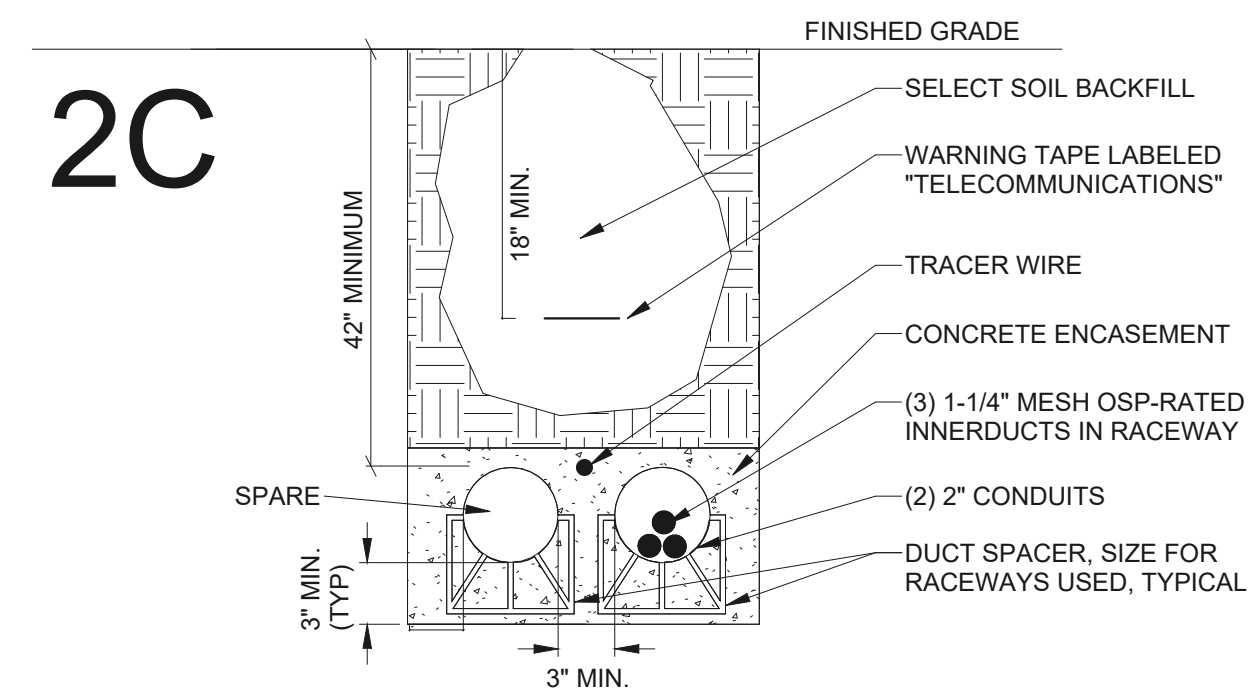
TRACER WIRE  
ACCESS BOX  
K1  
SCALE: NTS



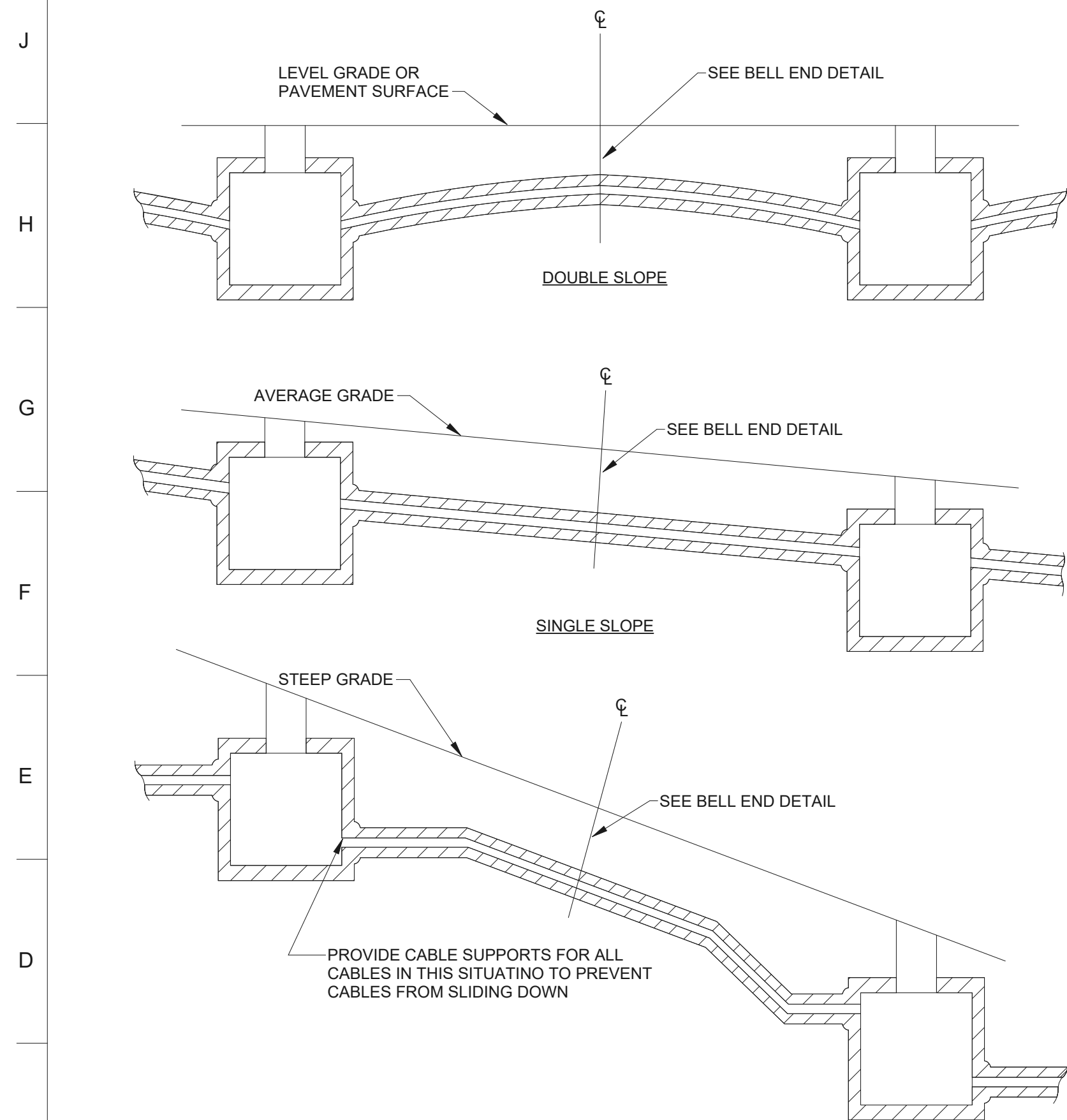
TELECOMMUNICATIONS (2) - 2" SOH 80PVC  
DIRECT BURIED CONDUIT DUCT BANK



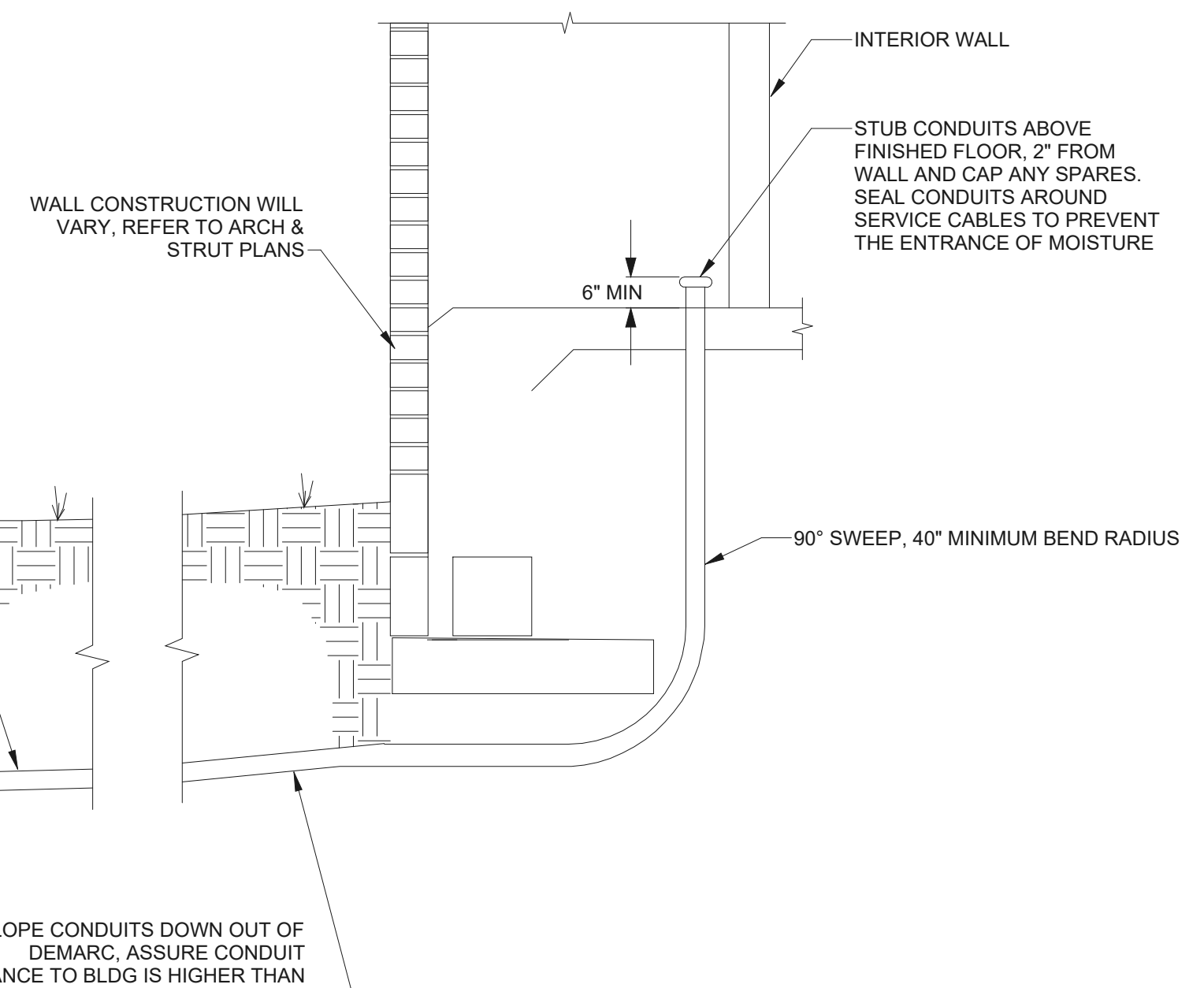
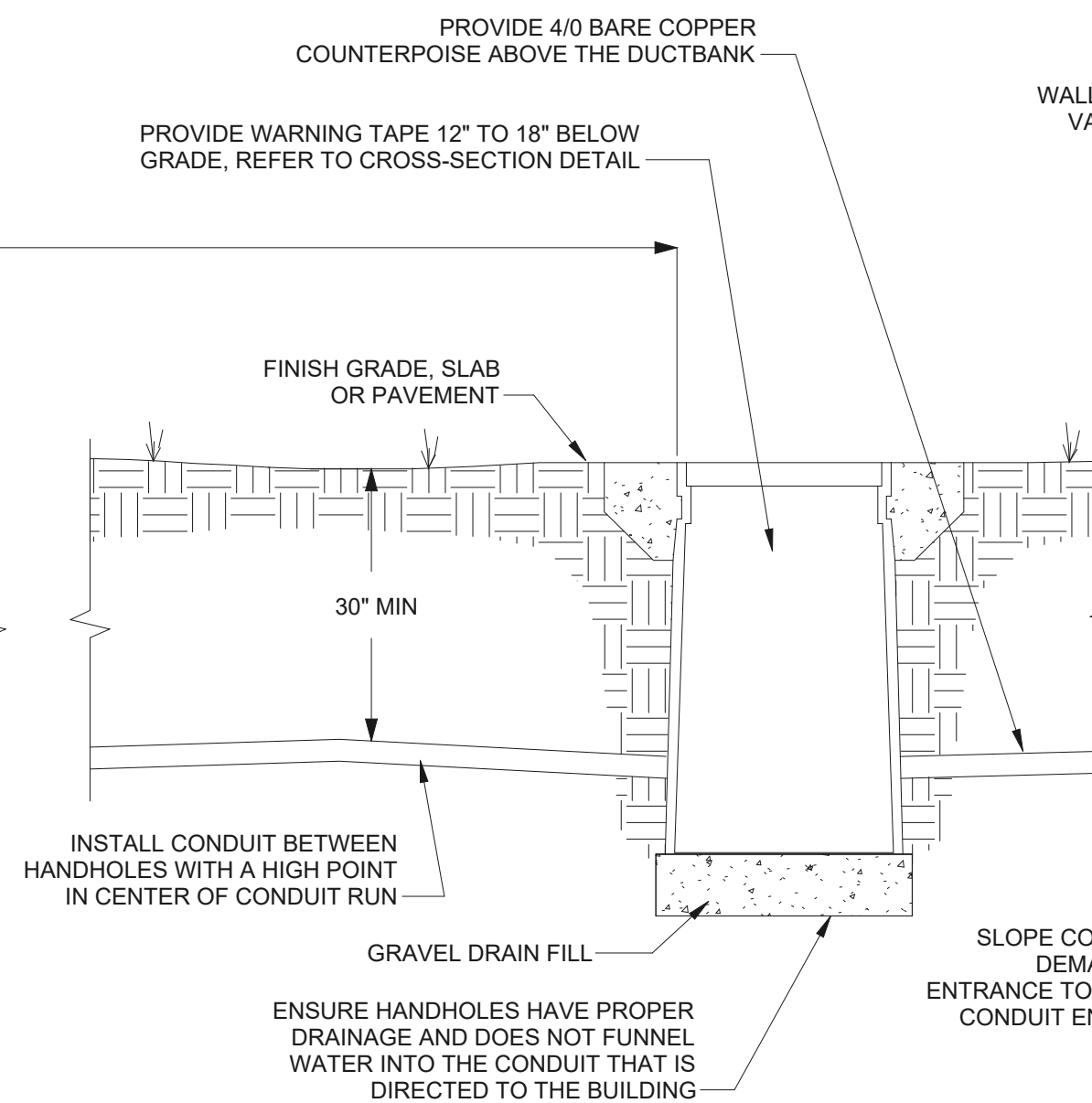
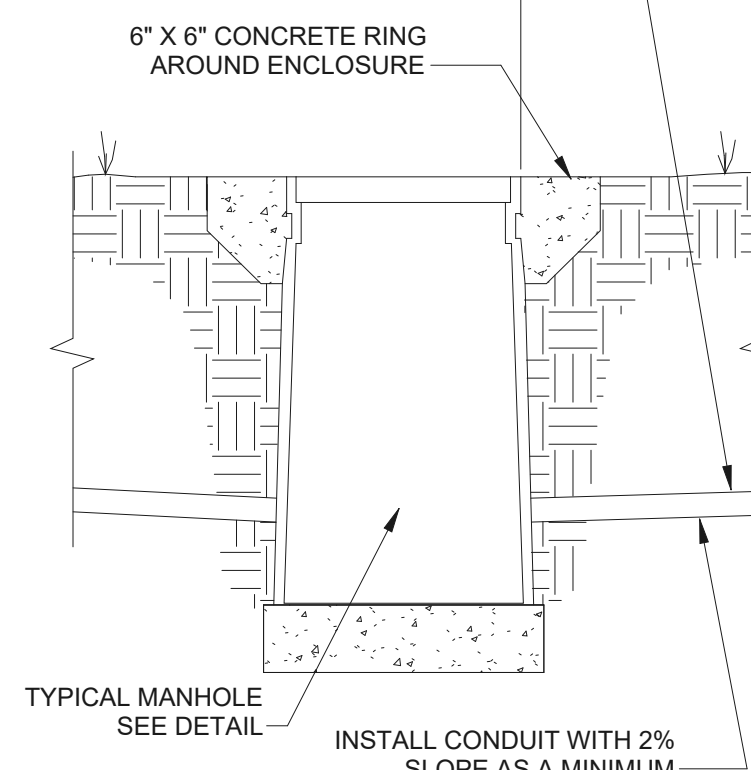
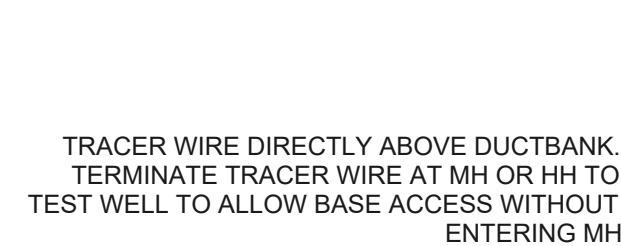
**TELECOMMUNICATIONS (2) 4" SOH 80 PVC  
DIRECT BURIED CONDUIT DUCT BANK**



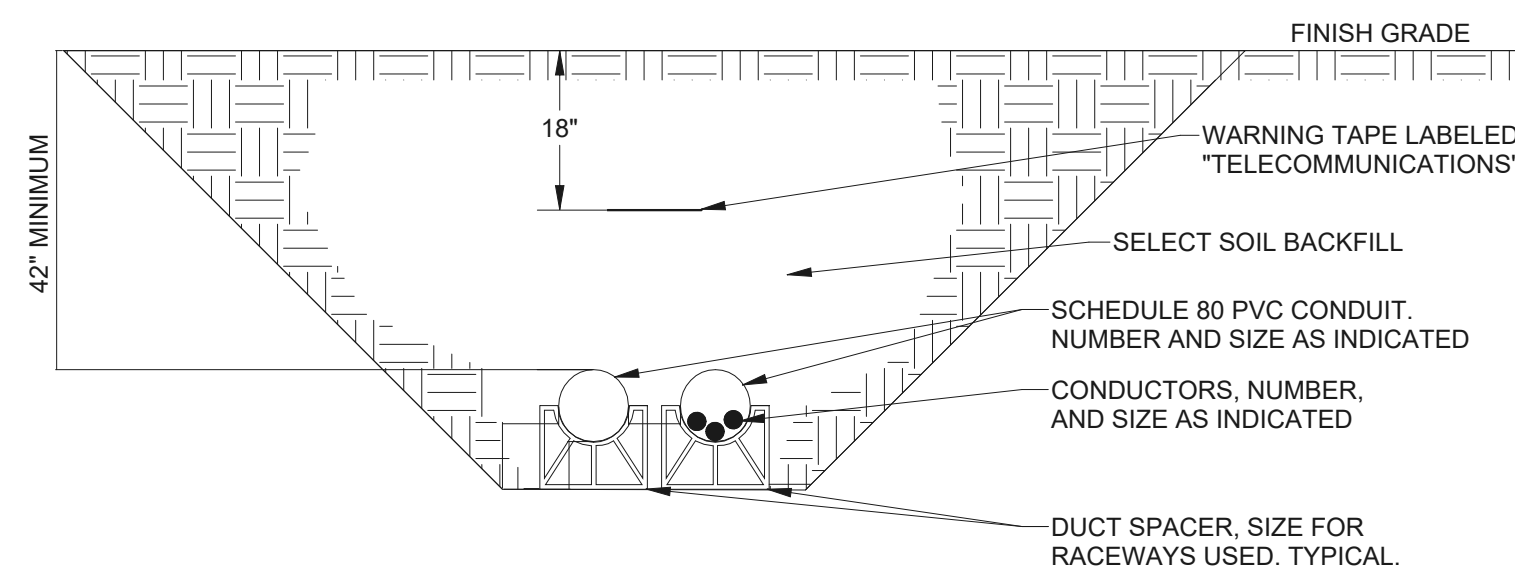
**TELECOMMUNICATIONS (2) - 2" SOH 40PVC  
CONCRETE ENCASED DUCT BANK**



**B1** TYPICAL MANHOLE/HANDHOLE DUCTBANK RELATION  
SCALE: NTS



**D7** TYPICAL UNDERGROUND CONDUIT SLOPE PROFILE



**A9 TRENCHING DETAIL**  
SCALE: NTS

- NOTES:**
1. SEE COMMUNICATIONS SITE DRAWINGS (TS) FOR NUMBER, SIZE AND LOCATION OF COMMUNICATION CABLES IN UNDERGROUND DUCT BANK.
  2. DUCT SPACING SHALL BE MAINTAINED BY USE OF SEPARATORS OR SPACING BLOCKS PLACED NOT MORE THAN 4 FEET APART ON CENTER.
  3. WHERE INDICATED, DIG ONE TRENCH FOR UNDERGROUND DUCTS IN LIEU OF TWO SEPARATE TRENCHES FOR POWER DUCTS AND COMMUNICATIONS DUCTS. CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION OF 3" OF CONCRETE BETWEEN THE POWER DUCTS AND COMMUNICATIONS DUCTS.
  4. TO ENSURE DUCT IS AT PROPER DEPTH FOR ENTRY INTO VAULTS OR MANHOLES, BOTTOM OF TRENCH SHALL BE GRADED TO PROVIDE GRADUAL DEPTH CHANGE WITHIN 30 FEET OF MANHOLE OR VAULT.
  5. CONTRACTOR SHALL INSTALL CONCRETE DUCTBANK AS SHOWN UNDER ALL PAVEMENT.
  6. REFERENCE TNE60 IN VOLUME 2 FOR CABLE TYPES AND QUANTITIES, AS WELL AS WHETHER CABLES UTILIZE INNERDUCT.
  7. TRACER WIRE SHALL BE MINIMUM 12 AWG INSULATED SOLID COPPER. TERMINATE TRACER WIRE ON A TEST LUG INSIDE THE MAINTENANCE HOLE LIP OR AT THE TEST WELL LOCATED DIRECTLY ADJACENT TO MAINTENANCE HOLE.
  8. ALL NEW DUCTS AND INNERDUCTS SHALL HAVE PRE-LUBRICATED MEASURING PULLING TAPE WITH A MINIMUM BREAKING STRENGTH OF 1,200 LBS SECURED AT EACH END WITH DUCT PLUG.
  9. PROVIDE RECONDITIONING OF SURFACES AS SPECIFIED IN SECTION 33 71 02 UNDERGROUND ELECTRICAL DISTRIBUTION.
  10. PROVIDE COLOR AND TYPE OF TAPE AS SPECIFIED IN PARAGRAPH BURIED WARNING AND IDENTIFICATION TAPE IN SECTION 31 00 00, EARTHWORK.
  11. PROMPTLY REPAIR INDICATED UTILITY LINES OR SYSTEMS DAMAGED DURING SITE PREPARATION AND CONSTRUCTION. DAMAGES TO LINES OR SYSTEMS NOT REPAIRED IMMEDIATELY DURING PRE-CONTRACTOR OPERATIONS SHALL BE TREATED AS "CHARGED" FOR THE TERMS OF THE CONTRACT CLAUSES. IF THE CONTRACTOR ADVISED IN WRITING OF THE LOCATION OF A NON-DIAGNOSTIC LINE OR SYSTEM, SUCH NOTICE SHALL PROVIDE THAT PORTION OF THE LINE OR SYSTEM WITH "INDICATED" STATUS IN DETERMINING LIABILITY FOR DAMAGES. IN EVERY EVENT, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF DAMAGE.
  12. PROVIDE UNDERGROUND DUCT AND CONNECTIONS TO EXISTING MANHOLES, HANDHOLES, CONCRETE PADS, AND EXISTING DUCTS AS SPECIFIED IN SECTION 33 71 02 UNDERGROUND ELECTRICAL DISTRIBUTION.



US Army Corps  
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05/01/2025	S.BLASER	OMAHA DISTRICT	FILE NAME:
	DRAWN BY:	1916 CAPITOL AVE	SIZE:
	CHECKED BY:	OMAHA, NE 68102	BUCC00102_DM_ME.rvt
	J.COOK		
	SUBMITTED BY:		
	S.LUNDGREN		

POWER INDEPENDENCE, MISSION CONTROL STATION

TELECOMMUNICATIONS SITE DETAILS

SHEET ID

TS503







