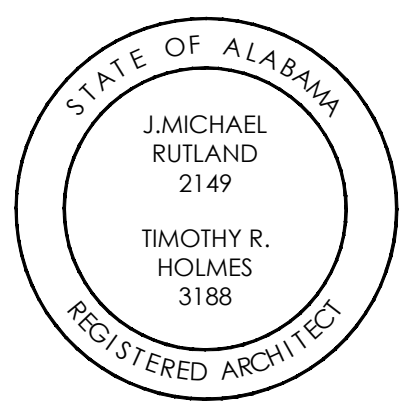
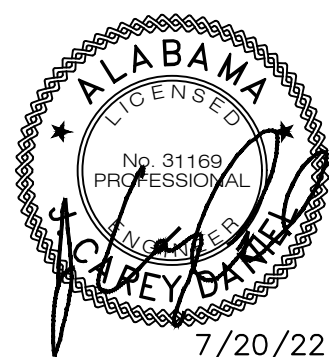


FILE NAME: W:\UMRH Projects 2021\21-1078 Pelham Range Telecommunications Infrastructure Modernization\T1.1 Cover.dwg
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| ABBREVIATIONS | | | | | | | | | | VICINITY MAP | | | | | | | | | | GENERAL NOTES | | | | | | | | | | INDEX OF DRAWINGS | | | | | | | | | |
|---------------|----------|-----------------------|---|--------|-------------------------------|----|-------------------|---------------------------|----|--------------|----|----|----|----|----|----|----|----|----|---------------|----|----|----|----|----|----|----|----|----|-------------------|----|----|----|----|----|----|--|--|--|
| A | A.B. | ANCHOR BOLT | F | FAS | FASTENER | P | PAR | PARALLEL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | ABV | ABOVE | | F.B. | FACE BRICK | | P.B.D. | PARTICLE BOARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A/C | AIR CONDITIONING | | F.B.O. | FURNISHED BY OTHERS | | P.C.C. | PRECAST CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ACC | ACCESS | | F.D. | FLOOR DRAIN | | P.E. | PEDESTAL (SINK) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AC.T. | ACUSTICAL TILE (CLG) | | F.E. | FIRE EXTINGUISHER | | PERI | PERIMETER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AFF | ABOVE FINISH FLOOR | | F.F. | FINISH FLOOR | | PKG | PARKING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AD. | AREA DRAIN | | F.G. | FIXED GLASS | | PL | PLATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ADD | ADDENDUM | | FGL | FIBERGLASS | | PLAM. | PLASTIC LAMINATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ADH | ADHESIVE | | FIN | FINISH | | PLAS | PLASTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ADJ | ADJUSTABLE | | FLG | FLASHING | | PNL | PANEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | AGG | AGGREGATE | G | FLR | FLOOR | Q | PNT | PANT | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| | A.H.U. | AIR HANDLING UNIT | | FLUR | FLOURESCENT | | P. TILE | PORCELAIN TILE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ALT | ALTERNATE | | FN | FENCE | | PR | PREFABRICATED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ALUM | ALUMINUM | | F.O. | FOUNDATION | | PR | PREFABRICATED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A.P. | ACCESS PANEL | | F.P. | FACE OF | | PSF | POUNDS PER SQUARE FOOT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | APX | APPROXIMATE | | FP | FIRE PROOF | | PSI | POUNDS PER SQUARE INCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ARCH. | ARCHITECTURAL | | FPB | FIRE PROOF HOSE BIBB | | PTM | PARTITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ASPH | ASPHALT | | FR | FRAME | | P.T. | PRESSURE TREATED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A.T. | ASPHALT TILE | | FS | FULL SIZE | | PV | PAVED/ OR PAVING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AUTO. | AUTOMATIC | | FTG | FOOTING | | PVC | POLYVINYL CHLORIDE (PIPE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | AVG | AVERAGE | H | FUR | FURRED(ING) | R | PVMT | PAVEMENT | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| | AWNG | AWNING | | F.V. | FIELD VERIFY | | R.Q. | REQUIRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B36 | 36" WIDE BASE CAB. | | G.T. | GROUT | | RES | RESILIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BD | BOARD | | GA | GAUGE | | REVISION | REVISION, REVISED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BF | BFOLD (DOOR) | | G.B. | GYPSUM BOARD | | REINFORCED(ING) | REINFORCED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BIT. | BITUMINOUS | | G.C. | GENERAL CONTRACTOR | | RFG | ROOFING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLKG | BLOCKING | | G.D. | GRADE OR GRADING | | R.H. | RANGE W/ MICROWAVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLDG | BUILDING | | G.D.O. | GARAGE DOOR OPENER | | R.L.G. | REINFORCED JUNCTION BOX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLK | BLOCK (CMU) | | GFI | GROUND FAULT INTERRUPTER | | RUB | RUBBLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLKG | BLOCKING | | GL | GLASS OR GLAZING | | RBL | RUBBLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | BM | BEAM | I | GLBK. | GLASS BLOCK | R | R.D. | ROOF DRAIN | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | B.M. | BENCH MARK | | GT | GROUT | | R.E. | REFRIGERATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BP | BI-PASS (DOOR) | | H | HIGH | | REQUIRE | REQUIRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BRG | BEARING | | H.B. | HOSE BIBB | | RESILIENT | RESILIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BRK | BRICK | | H.C. | HOLLOW CORE | | REVISION, REVISED | REVISION, REVISED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B.S. | BOTH SIDES | | H.D. | HEAD OR HARD | | REINFORCED(ING) | REINFORCED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BSMT | BASEMENT | | H.D. | HEAT DETECTOR OR HEAVY DUTY | | RFG | ROOFING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BTM | BOTTOM | | H.D. | HEAT DETECTOR OR HEAVY DUTY | | R.H. | RANGE W/ MICROWAVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BTWN | BETWEEN | | HDR | HEADER | | R.L.G. | REINFORCED JUNCTION BOX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BVL | BEVELED | | HDW | HARDWARE | | RUB | RUBBLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | BLV | BOTH WAYS | J | HT | HEIGHT | S | R.W. | ROUGH OPENING | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | |
| | CAB | CABINET | | H.M. | HOLLOW METAL | | R.O.W. | ROUGH OPENING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.B. | CATCH BASIN | | HR | HORIZONTAL | | R.S. | ROUGH OPENING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CEM | CEMENT | | HR | HORIZONTAL | | S | SOLID CORE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CER | CERAMIC | | H.R. | HALF ROUND | | SCH | SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CF | CUBIC FOOT | | H.S. | HORIZONTAL SLIDER | | SD | SMOKE DETECTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CHAM | CHAMFER | | HTG | HEATING | | SEC | SECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CH | CAST IRON | | HVAC | HEATING/VENTILATING/AIR COND. | | SF | SQUARE FEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.I.P. | CONCAT-IN-PLACE CONC. | | I.B.D. | IRONWOOD | | SGL | SAFETY GLASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CR | CIRCLE | | I.D. | IRONING BOARD | | S.G.D. | SLIDING GLASS DOOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | CR | CIRCLE | K | IRC | IRONING BOARD | T | SH | SINGLE HUNG OR SHELF | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| | CRC | CIRCUMFERENCE | | I.D. | INSIDE DIAMETER | | SH | SINGLE HUNG OR SHELF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.J. | CONTROL JOINT | | I.L.O. | INSIDE DIAMETER | | SHT | SHEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CK | CAULKING (CAULKING) | | I.M. | INSULATED | | SHTHG | SHEATHING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CL | CLOSET OR CENTER LINE | | I.NS. | INSULATED(ITION) | | SK | SKYLIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLG | CLEARANCE | | INT | INTERIOR | | SKL | SKYLIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLS | CLOSURE OR CLOSER | | JST | JOIST | | SNT | SIDE LIGHT OR SLEEVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CM | CENTIMETER(S) | | JT | JOINT | | SPC | SPEAKER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CMU | CONCRETE MASONRY UNIT | | K | KNOCKDOWN | | SPC | SPEAKER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.O. | CASED OPENING | | KT | KITCHEN | | SPEC | SPECIFICATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | COL | COLUMN | L | KIT | KITCHEN | U | S.S.T. | STAINLESS STEEL | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | |
| | COMB | COMBINATION | | KNO | KNOCKOUT | | S.S.T. | STAINLESS STEEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONC | CONCRETE | | KPL | KICKPLATE | | STD | STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COND | (AC) CONDENSER | | K/S | KNEE SPACE | | STOR | STORAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONST | CONSTRUCTION | | LAM. | LAMINATED | | STR | STRUCTURAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONT | CONTINUOUS | | LAV | LAVATORY | | STR | STRUCTURAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTR | CONTRACTOR | | L.B.O. | LOCATION BY OTHERS | | SUS | SUSPENDED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CORR | CORRUGATED | | L.V. | LAVATORY | | SUS | SUSPENDED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CPR | COPPER | | L.V. | LAVATORY | | S.W. | SHEAR WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C OR OPT | CARPET | | L.V. | LIVING | | T | TREAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | CRS | COURSE(S) | M | L.L. | LIVE LOAD | V | T.B. | TOWEL BAR | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | |
| | CSMT | CASEMENT | | L.L. | LIVE LOAD | | T.B.D. | TOWEL BAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.S.T. | CAST STONE | | L.P. | LAMINATED PLASTIC | | T.C.J. | TROWELED CONTROL JOINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CT | CERAMIC TILE | | L.T. | LIGHT | | TEMP. | TEMPERED (GLASS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CTR | CENTER OR COUNTER | | L.T. | LAUNDRY TUB | | T&G | TONGUE & GROOVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CL | CLEARANCE | | LTL | LAUNDRY TUB | | TEL | TELEPHONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLG | CLEARANCE | | LTL | LAUNDRY TUB | | THK | THICKNESS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLS | CLOSURE OR CLOSER | | LTV | LAUNDRY TUB | | THR | THRESHOLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CM | CENTIMETER(S) | | LTV | LAUNDRY TUB | | T.O.C. | TOP OF CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CMU | CONCRETE MASONRY UNIT | | LTV | LAUNDRY TUB | | T.O.F. | TOP OF FOUNDATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | CO | CASED OPENING | N | L.V. | LIVING | W | T.O.M. | TOP OF MASONRY | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | |
| | COL | COLUMN | | L.V. | LIVING | | T.O.W. | TOP OF WINDOW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COMB | COMBINATION | | L.V. | LIVING | | TR | TRANSOM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONC | CONCRETE | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COND | (AC) CONDENSER | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONST | CONSTRUCTION | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONT | CONTINUOUS | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTR | CONTRACTOR | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CORR | CORRUGATED | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CPR | COPPER | | L.V. | LIVING | | TV | TELEVISION OUTLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | C OR OPT | CARPET | O | L.V. | LIVING | X | UC | UNDERCUT | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | |
| | CRS | COURSE(S) | | L.V. | LIVING | | UNF | UNFINISHED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CSMT | CASEMENT | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.S.T. | CAST STONE | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CT | CERAMIC TILE | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CTR | CENTER OR COUNTER | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CL | CLEARANCE | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLS | CLOSURE OR CLOSER | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CM | CENTIMETER(S) | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CMU | CONCRETE MASONRY UNIT | | L.V. | LIVING | | UNO. | UNLESS NOTED OTHERWISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | CO | CASED OPENING | P | L.V. | LIVING | Y | VB | VANITY BASE | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | | | |
| | COL | COLUMN | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COMB | COMBINATION | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONC | CONCRETE | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COND | (AC) CONDENSER | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONST | CONSTRUCTION | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONT | CONTINUOUS | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTR | CONTRACTOR | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CORR | CORRUGATED | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CPR | COPPER | | L.V. | LIVING | | VB | VANITY BASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | C OR OPT | CARPET | Q | L.V. | LIVING | Z | VERT | VERTICAL | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | |
| | CRS | COURSE(S) | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CSMT | CASEMENT | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.S.T. | CAST STONE | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CT | CERAMIC TILE | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CTR | CENTER OR COUNTER | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CL | CLEARANCE | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLS | CLOSURE OR CLOSER | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CM | CENTIMETER(S) | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CMU | CONCRETE MASONRY UNIT | | L.V. | LIVING | | VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | CO | CASED OPENING | R | L.V. | LIVING | AA | W | WALL | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | | | | |
| | COL | COLUMN | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COMB | COMBINATION | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONC | CONCRETE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COND | (AC) CONDENSER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONST | CONSTRUCTION | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONT | CONTINUOUS | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTR | CONTRACTOR | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CORR | CORRUGATED | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CPR | COPPER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | C OR OPT | CARPET | S | L.V. | LIVING | BB | W | WALL | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | | |
| | CRS | COURSE(S) | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CSMT | CASEMENT | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.S.T. | CAST STONE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CT | CERAMIC TILE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CTR | CENTER OR COUNTER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CL | CLEARANCE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CLS | CLOSURE OR CLOSER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CM | CENTIMETER(S) | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CMU | CONCRETE MASONRY UNIT | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O | CO | CASED OPENING | T | L.V. | LIVING | CC | W | WALL | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | | |
| | COL | COLUMN | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COMB | COMBINATION | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONC | CONCRETE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COND | (AC) CONDENSER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONST | CONSTRUCTION | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONT | CONTINUOUS | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CONTR | CONTRACTOR | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CORR | CORRUGATED | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CPR | COPPER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | C OR OPT | CARPET | U | L.V. | LIVING | DD | W | WALL | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | |
| | CRS | COURSE(S) | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CSMT | CASEMENT | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C.S.T. | CAST STONE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CT | CERAMIC TILE | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CTR | CENTER OR COUNTER | | L.V. | LIVING | | W | WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATIONPelham Range, Alabama
IFB# AC-22-B-0029-S

7/20/22

CONSTRUCTION
DOCUMENTS

Project Number: 21-1078

Date: 20 JULY 2022

Revisions:

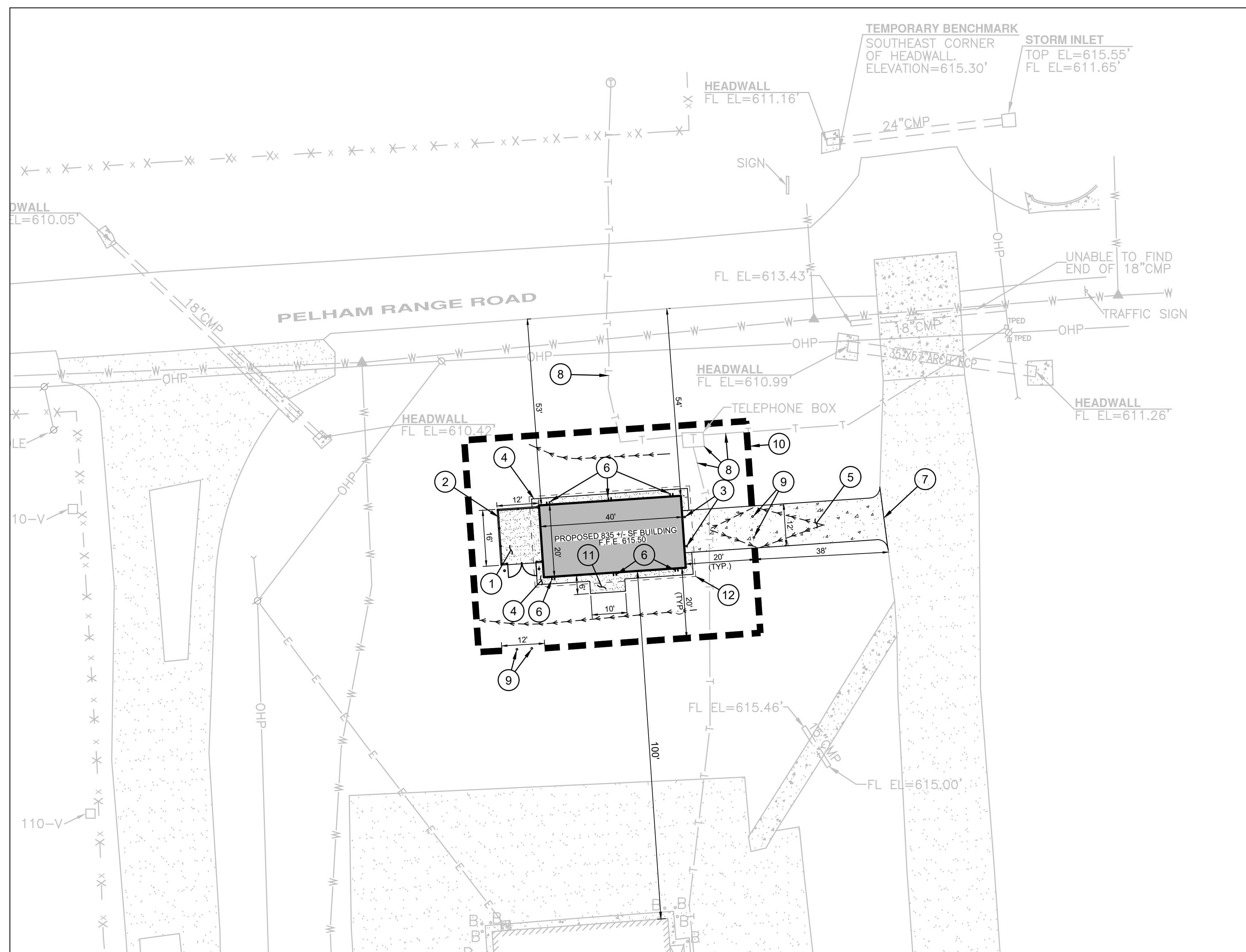
Sheet Description

SITE LAYOUT,
GRADING,
DRAINAGE AND
BMP PLAN

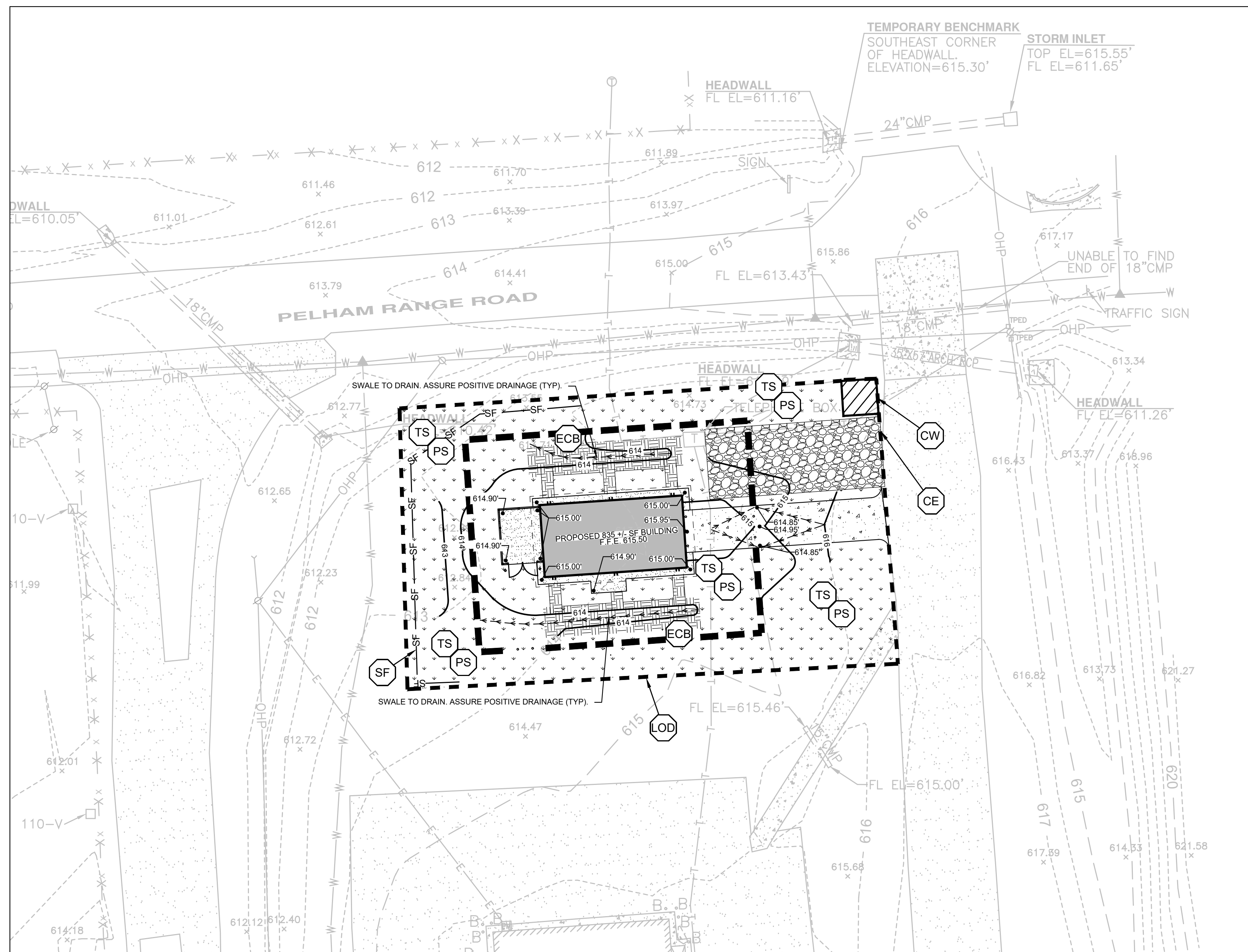
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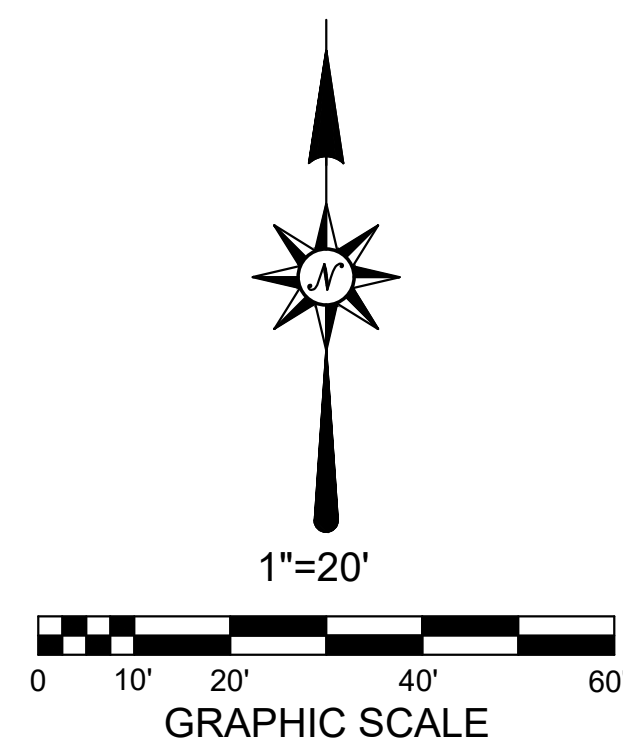
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SITE LAYOUT AND DIMENSION PLAN



SITE GRADING, DRAINAGE AND BMP PLAN



LAYOUT LEGEND

- 1 CONCRETE GENERATOR PAD REQ'D. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION (TYP).
- 2 SECURITY FENCING AT GENERATOR PAD REQ'D. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION (TYP).
- 3 BOLLARD REQ'D. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION (TYP).
- 4 2' WIDE CONCRETE MOW STRIP REQ'D. SLOPE AWAY FROM THE BUILDING TO ASSURE POSITIVE DRAINAGE. SEE ARCH PLANS FOR DETAIL (TYP).
- 5 HEAVY DUTY CONCRETE PAVEMENT SECTION REQ'D (TYP). SEE DETAIL SHEET C1.2.
- 6 DOWNSPOUT REQ'D. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION (TYP).
- 7 TIE PROPOSED ACCESS DRIVE TO EXISTING PAVEMENT, MATCH GRADE, PROVIDE SMOOTH TRANSITION, NO PONDING OF WATER (TYP).
- 8 EXISTING UTILITY IMPROVEMENTS TO REMAIN. CONTRACTOR TO PROTECT DURING CONSTRUCTION (TYP).
- 9 PROVIDE REMOVABLE BOLLARDS AT THE CONCRETE DRIVE 6' ON CENTER. INSTALL PER BASE STANDARDS. SEE ARCH PLANS. (TYP)
- 10 JERSEY BARRIERS TO BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR IN ACCORDANCE WITH BASE STANDARD REQUIREMENTS. (TYP)
- 11 CONCRETE PAD FOR MECHANICAL EQUIPMENT, SEE ARCHITECTURAL PLANS FOR DETAILS (TYP).
- 12 ROOF OVERHANG (TYP)

SITE LAYOUT NOTES

1. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING, TO FACE OF CURB, OR EDGE OF SURFACING.
2. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS, ALL UTILITY TIE-INS, BOLLARD LOCATIONS AND OTHER RELATED INFORMATION.
3. ALL RADII ARE 3' UNLESS OTHERWISE NOTED.

SITE PREPARATION NOTES

1. ALL DEMOLITION, CONSTRUCTION DEBRIS, CLEARING, AND EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LEGAL MANNER OFF-SITE.
2. STRIP ALL TOPSOIL WITHIN BUILDING AND PAVEMENT AREAS, AND STOCKPILE FOR LATER USE. DISPOSE OF ANY EXCESS TOPSOIL IN LOCATIONS ON SITE AS DIRECTED BY THE OWNER.
3. PRIOR TO PLACING FILL IN PAVEMENT, SURFACING, OR IN BUILDING PAD AREAS, EXPOSED SUBGRADE SHALL BE PROOF ROLLED WITH A HEAVILY LOADED DUMP TRUCK. ALL AREAS SHOWING SIGNS OF PUMPING, RUTTING OR ANY DELETERIOUS MATERIALS FOUND IN PLACE (ORGANIC, WET, SOFT, LOOSE, OR UNSTABLE MATERIAL) SHALL BE UNDERCUT AND REPLACED.
4. ALL FILL PLACED IN UNDERCUT AREAS SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
5. CONTRACTOR SHALL FURNISH COMPACTION TEST REPORTS ON ALL SOILS PLACED OR SCARIFIED TO THE OWNER BASED ON A FREQUENCY OF ONE TEST PER 2500 S.F. OF AREA PER LIFT.
6. A GEOTECHNICAL REPORT HAS NOT BEEN PROVIDED FOR THIS PROJECT.

CBMPP NOTES:

1. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED THE MINIMUM AMOUNT OF TIME AND THE MINIMUM AREA AS IS PRACTICAL THROUGH GRADING PHASES.
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
3. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
4. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
5. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE OBSERVED BY CONTRACTOR AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
6. MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR, AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
7. SEDIMENT SHALL NOT BE WASHED INTO INLETS.
8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.
9. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
10. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WHERE THE OPERATION WILL NOT RESUME FOR A PERIOD EXCEEDING (13) CALENDAR DAYS. ALL DISTURBED AREAS LEFT MULCHED LONGER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
11. CONTRACTOR SHALL OBSERVE BMP'S ONCE EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
12. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED CBMPP PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.
14. CUT AND FILL SLOPES ARE NOT TO EXCEED "2H:1V" OR AS SHOWN ON GRADING PLAN.
15. TYPE "A" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCKPILE AREAS.
16. ALL DRAINAGE SWALES SHALL BE APPLIED WITH MATTING AND VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
17. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
18. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WHERE THE OPERATION WILL NOT RESUME FOR A PERIOD EXCEEDING (13) CALENDAR DAYS.
19. THE CONTRACTOR SHALL BEGIN PREPARING AND IMPLEMENTING FINAL SITE STABILIZATION WITH PERMANENT VEGETATION & BMP'S.
20. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
21. ALL DISTURBED AREAS TO BE TOPSOILED SHALL RECEIVE 4" OF TOPSOIL AND BE GRASSED IN ACCORDANCE WITH SECTIONS 651 AND 652 OF THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS OR RECEIVE BERMUDA SOD.
22. LAND DISTURBANCE AREA = 0.25 ACRES. AN ADEM PERMIT WILL NOT BE REQUIRED FOR THIS PROJECT.
23. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE STABILIZED IN THE SAME MANNER AS THE PROJECT REQUIRES.

GRADING LEGEND

- 600 MAJOR CONTOUR
- 601 MINOR CONTOUR
- DRAINAGE FLOW PATH

CBMPP LEGEND

- LOD LIMITS OF DISTURBANCE, TYPICAL.
- SS CBMPP INFORMATION SIGN REQ'D. SEE DETAIL SHEET C1.2 (TYP).
- CE 50' LONG X 20' WIDE TEMPORARY CONSTRUCTION EXIT PAD REQ'D. SEE DETAIL SHEET C1.2 (TYP).
- CW CONCRETE WASHOUT REQ'D. SEE DETAIL SHEET C1.2 (TYP).
- SF SILT FENCE REQ'D., TYPICAL. SEE DETAIL SHEET C1.2 (TYP).
- ECB MATTING AND BLANKET REQ'D., TYPICAL. SEE DETAIL SHEET C1.2 (TYP).
- TS TEMPORARY SEEDING REQ'D., TYPICAL. SEE DETAIL SHEET C1.2 (TYP).
- PS PERMANENT SEEDING REQ'D., TYPICAL. SEE DETAIL SHEET C1.2 (TYP).

NOTE: IN THE EVENT AN INADVERTENT CULTURAL RESOURCES DISCOVERY IS MADE DURING THE PROJECT, WORK SHALL HALT AND THE ARCHITECT AND PROJECT MANAGER CONTACTED IMMEDIATELY.

REFER TO SURVEY FOR
EXISTING CONDITIONS LEGEND.

GSA PROJECT NO.: 22-0199

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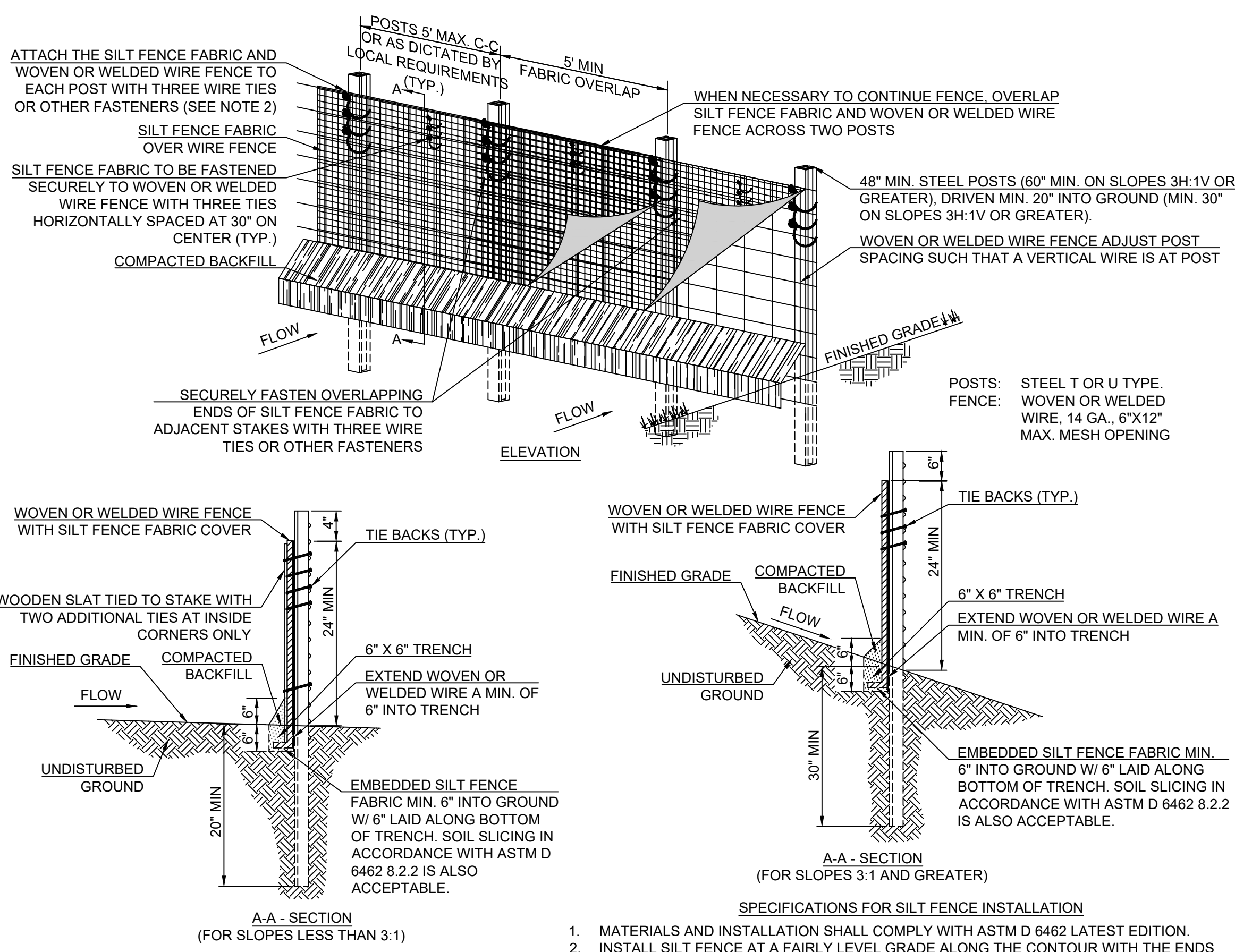


TABLE 1 TEMPORARY SILT FENCE MATERIAL PROPERTY REQUIREMENTS

| Grab Strength | Test Method | | Units | Supported Silt Fence ^A N (lbs) | Unsupported ^A Silt Fence N (lbs) | Type of Value |
|------------------------------------|---------------------|-------------|---------------------|--|---|-----------------------|
| | Machine Direction | ASTM D 4632 | | | | |
| | Machine Direction | ASTM D 4632 | | 400 (90) | 550 (90) | MARV |
| | X-Machine Direction | ASTM D 4632 | | 400 (90) | 450 (90) | MARV |
| Permeability ^B | | ASTM D 4491 | sec-1 | 0.05 | 0.05 | MARV |
| Apparent Opening Size ^B | | ASTM D 4753 | mm (US Sieve #) | 0.60 (30) | 0.60 (30) | Max. ARV ^C |
| Ultraviolet Stability | | ASTM D 4355 | % Retained Strength | 70% after 500 h of exposure | 70% after 500 h of exposure | Typical |

TABLE 1 TAKEN FROM ASTM D 6461-99 (2007)

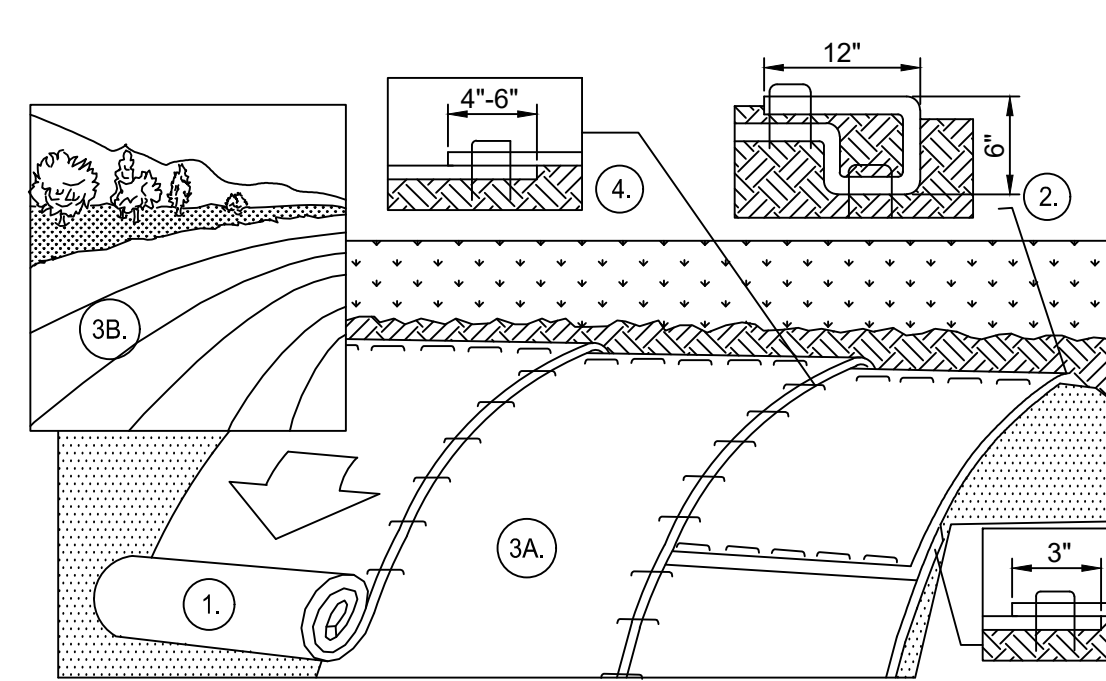
A: Silt fence support shall consist of 14 gauge steel wire with a mesh spacing of 150 mm (6 in.) or prefabricated polymer mesh of equivalent strength.

B: These default values are based on empirical evidence with a variety of sediments. For environmentally sensitive areas, a review of previous experience and/or site or regionally specific geotextile tests in accordance with Test Method D 5141 should be performed by the agency to confirm suitability of these requirements.

C: As measured in accordance with Test Method D 4632.

SF - SEDIMENTATION/SILT FENCE WITH WIRE BACKING

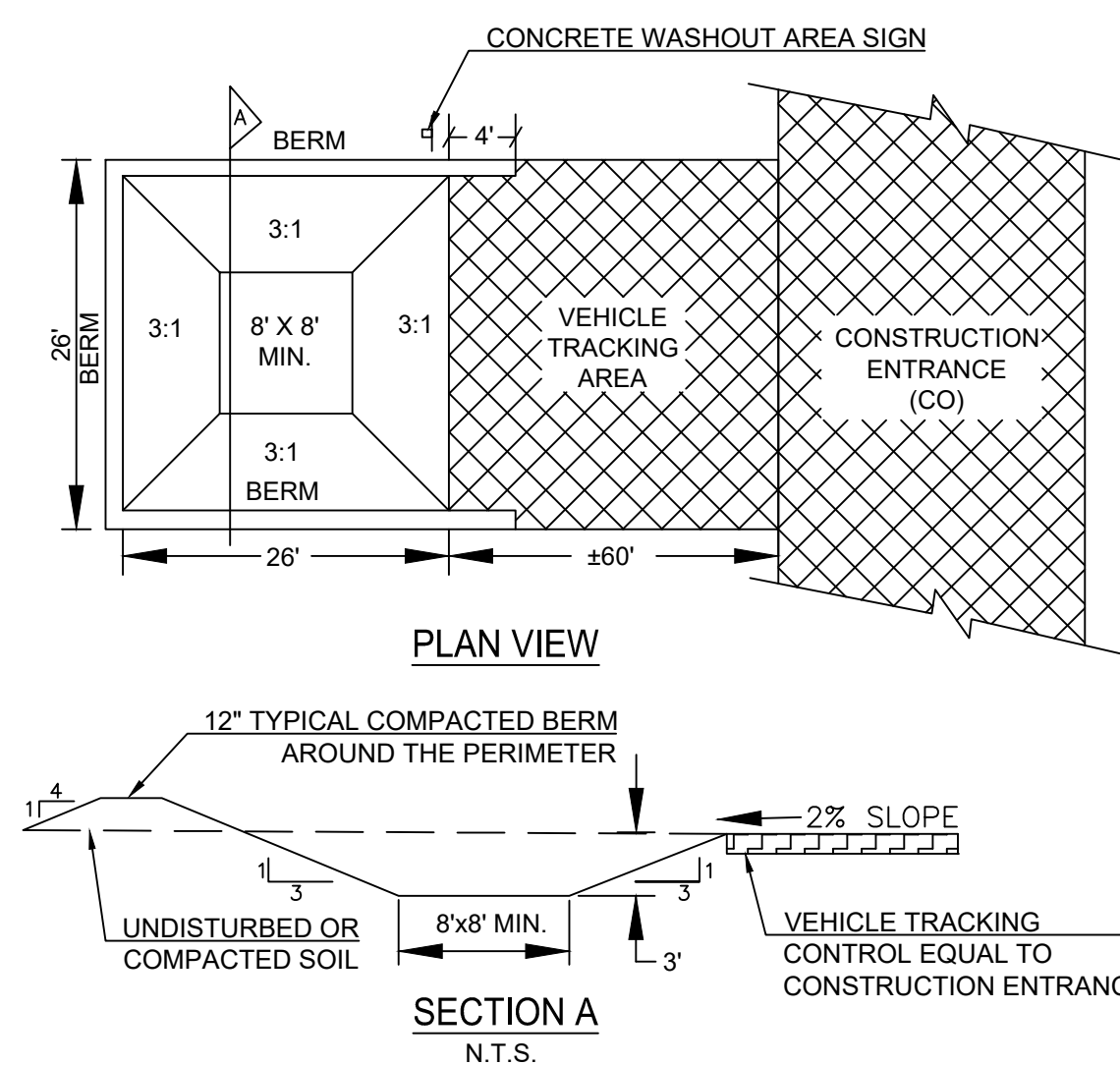
N.T.S.



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEYOND THE UP-SLOPE PORTION OF THE TRENCH, ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4'-8" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION

EROSION CONTROL BLANKET

N.T.S.



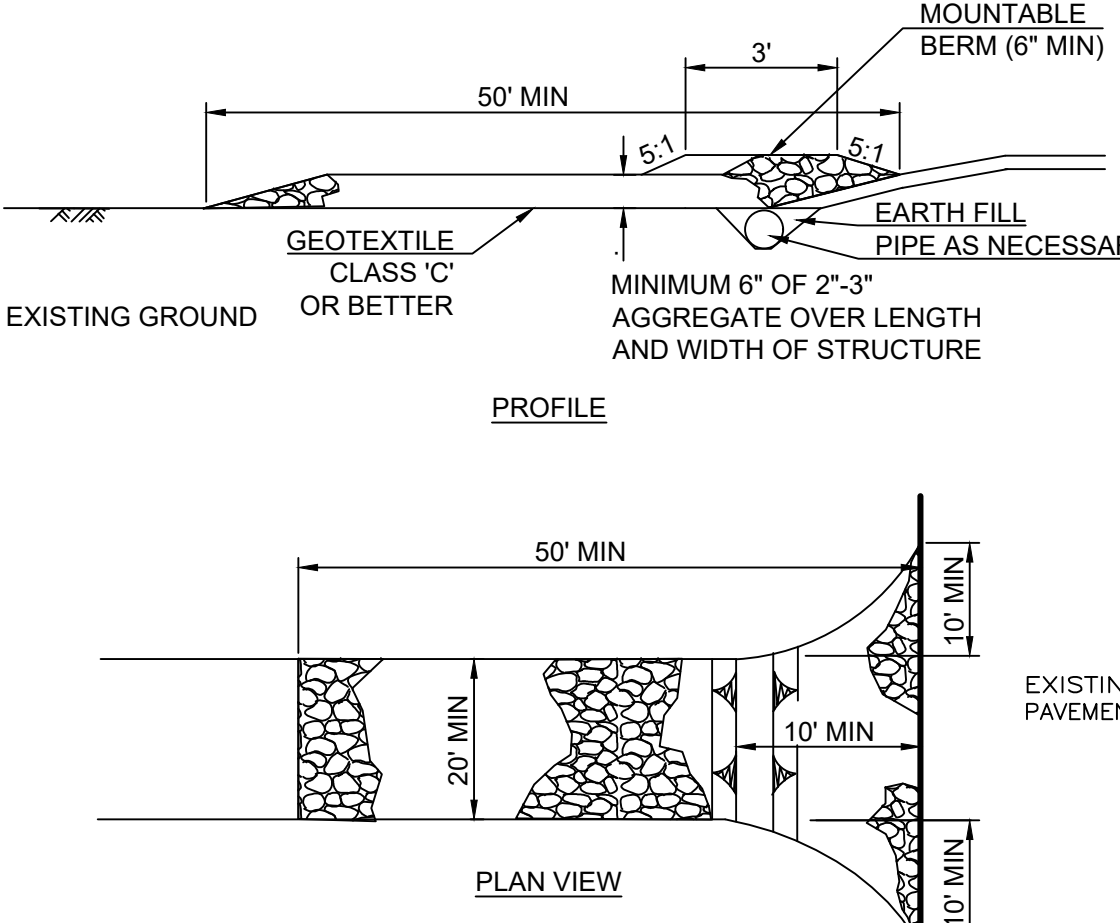
- INSTALLATION AND MAINTENANCE**
- CONCRETE WASH OUT AREA SHALL BE INSTALLED AS INDICATED ON THE PLAN VIEW OR NO CLOSER THAN 400' TO ANY NATURAL DRAINAGE PATH OR WATER BODY.
 - THE CONCRETE WASH OUT AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 - THE WASH OUT AREA SHALL HAVE A PIT AT LEAST 8' X 8' AND 3' DEEP. BERMS SURROUNDING THE AREA SHALL HAVE A MINIMUM HEIGHT OF 1'.
 - UPON COMPLETION OF THE 8' X 8' PIT, INSTALL AN IMPERMEABLE LINER (10 MIL. MINIMUM THICKNESS).
 - PROVIDE A SIGN ADJACENT TO THE CONCRETE WASH OUT AREA TO CLEARLY INDICATE THE LOCATION TO OPERATORS.
 - THE WASH OUT AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE MATERIAL/WASTE SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED 50% OF ITS CAPACITY.
 - ONCE REMOVED FROM THE PIT, THE WASTE SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF IN AN APPROVED LAND FILL.
 - THE VEHICLE TRACKING PAD SHALL BE SLOPED AT 2% TOWARDS THE WASH OUT AREA.
 - ONCE THE LAST CONCRETE IS PLACED, FILL THE PIT IN AND COMPACT TO JOB SPECIFICATIONS; THEN PLACE PROPOSED PAVING.

CONCRETE WASHOUT DETAIL

N.T.S.

NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT AND ASSOCIATED WHEEL WASH AREAS IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT, OBSERVABLE TRACK OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH), CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED. TRACK OUT IS A SEDIMENT RELEASE.

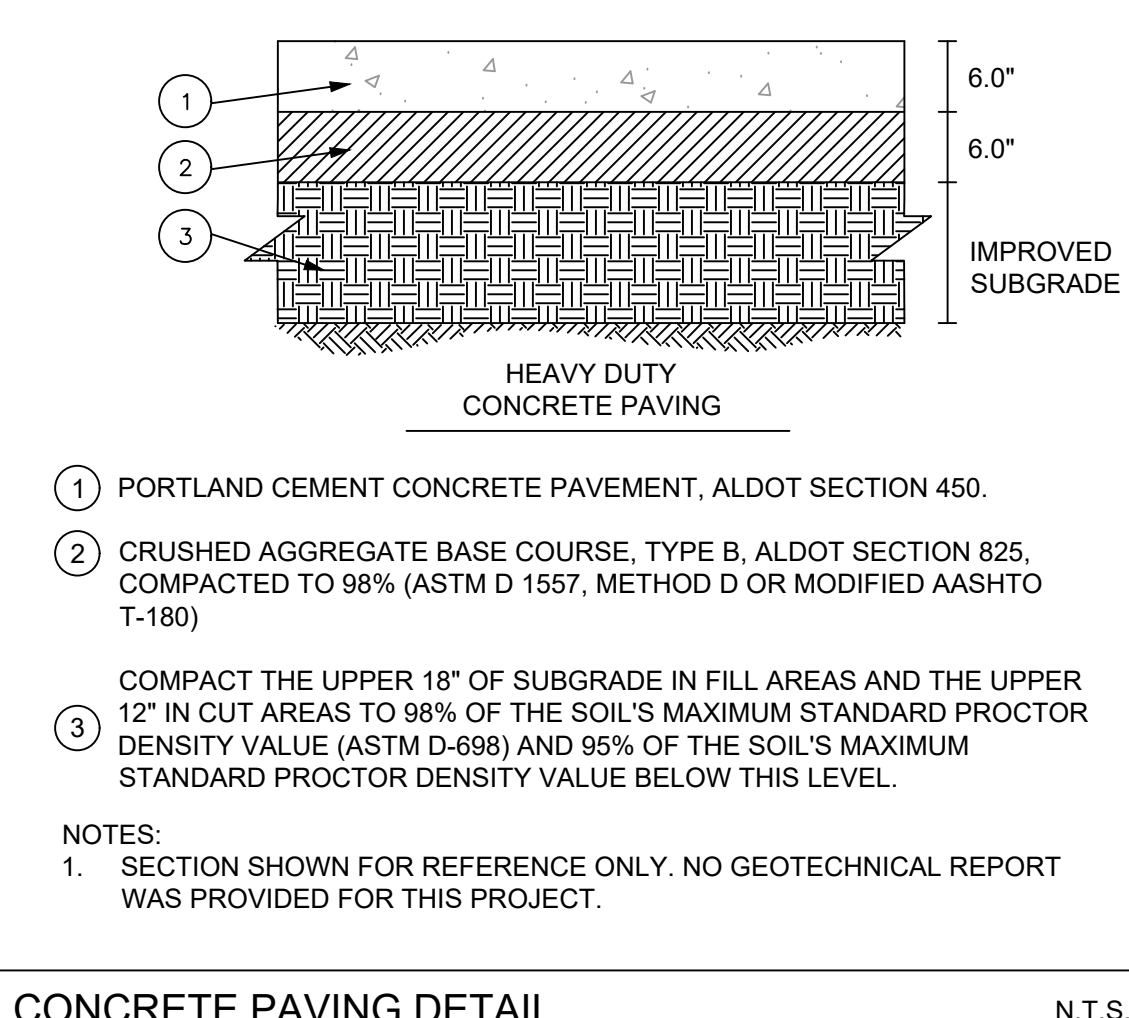
- MAINTENANCE NOTES**
- EXIT SHALL BE INSPECTED ALONG ITS ENTIRETY AND MUST BE CLEANED WHEN SEDIMENT/MUD IS PRESENT ON THE SURFACE OF THE STONE.
 - ALL MATERIAL REMOVED FROM THE STONE SHALL BE STOCKPILED ON AN UPLAND PORTION OF THE SITE IF SUITABLE FOR REUSE.
 - RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE.
 - TOP DRESS WITH CLEAN STONE AS NEEDED.
 - IMMEDIATELY REMOVAL OF SEDIMENT ON ADJACENT STREET.



- NOTES:**
- ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S). BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE SITE.
 - CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT.
 - PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED. SEDIMENT TRAP SHALL BE LOCATED OUTSIDE OF THE RIGHT-OF-WAY AND AT A MINIMUM SETBACK DISTANCE AS REQUIRED PER LOCAL JURISDICTION.
 - IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED OFF-SITE.
 - LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
 - ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEEPED AS NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO STORM SEWER SYSTEMS.
 - EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT(S) AS CONDITIONS DEMAND.
 - CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL.
 - IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY.

CE - CONSTRUCTION EXIT

N.T.S.



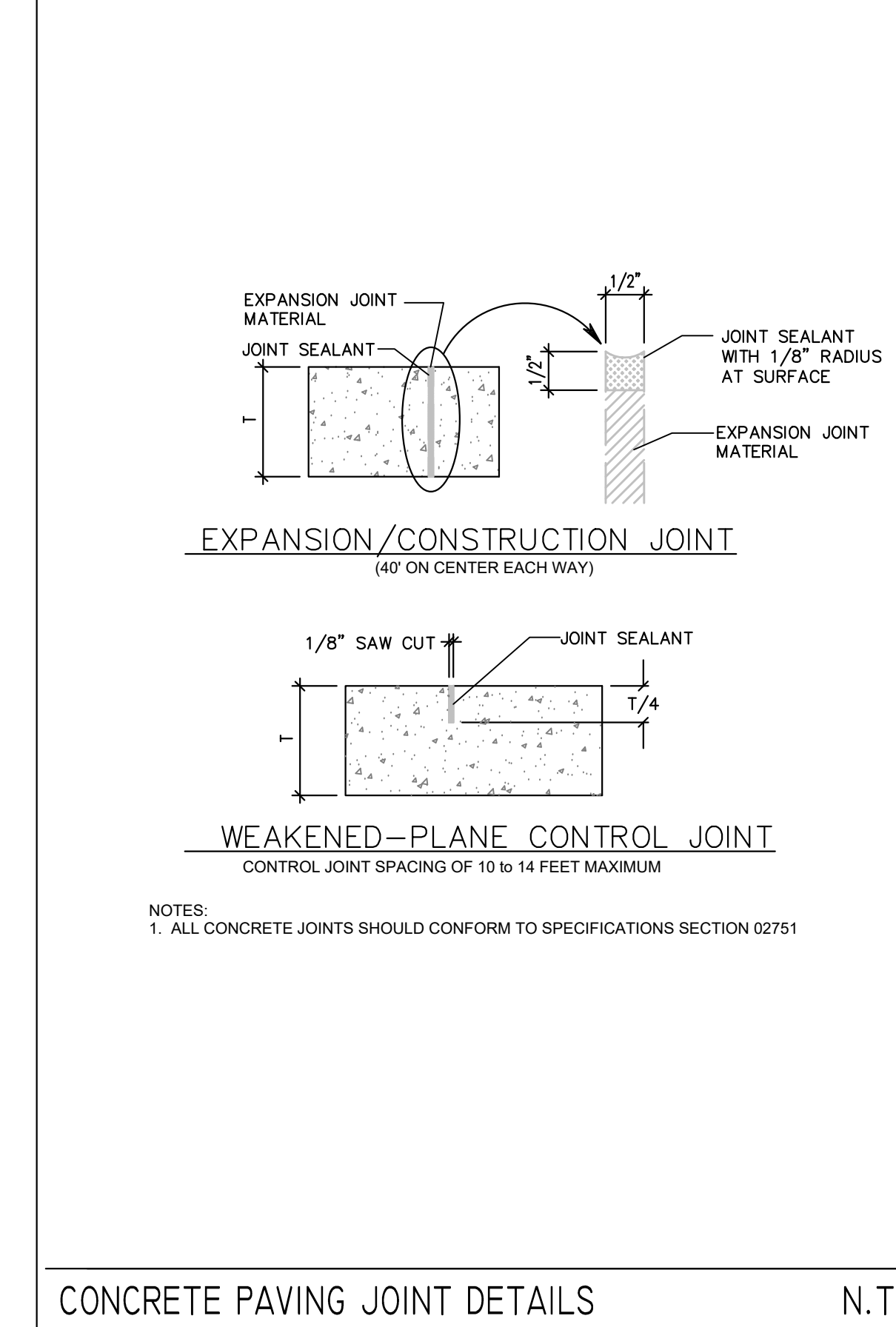
CONCRETE PAVING DETAIL

N.T.S.

TS — TEMPORARY SEEDING

| SPECIES | BROADCAST Rate PLS per Acre 1000 SF | RESOURCE | REMARKS |
|---|-------------------------------------|---------------------|---------|
| SUDAGRASS | | | |
| ALONE | 40 lbs. 0.9 lb. 10 lbs. 0.2 lb. | NORTH CENTRAL SOUTH | |
| WHEAT | | | |
| ALONE | 3 lb. 3.9 lb. (168 lbs.) | NORTH CENTRAL SOUTH | |
| MILLET, BROWNTOP (Panicum fasciculatum) | | | |
| ALONE | 40 lbs. 0.9 lb. 10 lbs. 0.2 lb. | NORTH CENTRAL SOUTH | |
| RYE (Secale cereale) | | | |
| ALONE | 3 lb. 3.9 lb. (168 lbs.) | NORTH CENTRAL SOUTH | |
| IN MIXTURES | 1/2 lb. 0.6 lb. (28 lbs.) | | |
| PERGRASS, ANNUAL (Lolium temerarium) | | | |
| ALONE | 30 lbs. 0.7 lb. | NORTH CENTRAL SOUTH | |
| COMMON BERMUDAGRASS | | | |
| ALONE | 10 lbs. 0.25 lb. | NORTH CENTRAL SOUTH | |
| CRIMSON CLOVER | | | |
| ALONE | 10 lbs. 0.25 lb. | NORTH CENTRAL SOUTH | |

- SEEDING**
- Construction Specifications:
- Timing:
- Apply permanent seeding on areas left dormant for 1 year or more.
 - Apply permanent seeding when no further disturbances are planned.
 - To determine optimum seeding schedule, consult a local agronomist or erosion control specialist.
 - Apply permanent seeding before seasonal rains or freezing weather is anticipated.
 - Use dormant seeding for late fall or winter seeding schedules.
- Seed Mixes:
- Use seeds appropriate to the season and site conditions.
 - Consult local agronomist or erosion control specialists for seed mix.
 - Use a seed blend to include annuals, perennials and legumes.
 - Use seed rates based on pure live seed (PLS) of 80%. When PLS is below 80% adjust rates accordingly.
- Site Preparation:
- Bring the planting area to final grade and install the necessary erosion control practices.
 - Divert concentrated flows away from the seeded area.
 - Conduct soil test to determine pH and nutrient content. Roughen the soil by harrowing, tracking, growing or furrowing.
 - Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.
 - Prepare a 3-5 inch (76-127 mm) deep seedbed, with the top 3-4 inches (76-102 mm) consisting of topsoil.
 - The seedbed should be firm but not compact. The top three inches of soil should be loose, moist and free of large clods and stones.
 - The topsoil surface should be in reasonably close conformity to the lines, grades and cross sections shown on the grading plans.
- Planting:
- Seed to soil contact is the key to good germination.
 - Seed should be applied immediately after seedbed preparation while the soil is loose and moist. If the seedbed has been idle long enough for the soil to become compact, the topsoil should be harrowed with a disk, spring tooth drag, spike tooth drag, or other equipment designed to conditions the soil for seeding.
 - Harrowing, tracking or furrowing should be done horizontally across the face of the slope.
 - Seed to soil contact is the key to good germination.
 - Always apply seed before applying mulch.
 - Apply seed at the rates specified using calibrated seed spreaders, cyclone seeders, mechanical drills, or hydroseeder so the seed is applied uniformly on the site.
 - Broadcast seed should be incorporated into the soil by raking or chain dragging, and then lightly compacted to provide good seed-soil contact.
 - Apply fertilizer as specified.
 - Apply mulch or erosion control blanket, as specified, over the seeded areas. Inspection and Maintenance.
 - Newly seeded areas need to be inspected frequently to ensure the grass is growing.
 - If the seeded area is damaged due to runoff, additional stormwater measures may be needed.
 - Spot seeding can be done on small areas to fill bare spots where grass did not grow properly.
- NOTE: DURING "HIGH VALUE" MONITORING SEEDING CONTRACTOR TO PREPARE MULCH OR MAT FOR SOIL STABILIZATION.**
- USE A MINIMUM OF 40 LBS. SHAPED SEED. REMINDER MAY BE UNCOVERED, CLEAN MULCH SEED.
 - USE EITHER COMMON SEED OR INTERMEDIATE SEEDS. LUPINACEAE.
 - ALL MIXES TO BE SEEDS SHALL HAVE LIME APPLIED AT A RATE OF 50 LB./1000 SF. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
 - ALL MIXES SHOULD HAVE LIME OR APPLICATION OF STRAW MULCH (APPROXIMATELY 1 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING (REQUIREMENTS OF PLANNING METHOD).
 - FERTILIZER: AGRICULTURAL LIME 1 TON PER ACRE.
 - 5-10-10 OR 5-10-10 100 LB. PER ACRE.
 - WEEDING MEASURES SHALL BE PER ALDOT OR ALABAMA EROSION HANDBOOK STANDARDS REQUIREMENTS AND SPECIFICATIONS.



CONCRETE PAVING JOINT DETAILS

N.T.S.

GSA PROJECT NO.: 22-0199

GONZALEZ - STRENGTH & ASSOCIATES, INC.

CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING

LAND PLANNING - LANDSCAPE ARCHITECTURE

1500 WOODS OF RIVERCHASE DRIVE, SUITE 200

HOOVER, ALABAMA 36244

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JMR+H

Architecture, P.C.

445 Dexter Avenue

Suite 5050

Montgomery, AL 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

STATE OF ALABAMA

JAMICHAEL RUTLAND 2149

TIMOTHY R. HOLMES 3188

REGISTERED ARCHITECT

PELHAM RANGE TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION

Pelham Range, Alabama

IFB# AC-22-B-0029-S

CONSTRUCTION DOCUMENTS

Project Number: 21-1078

Date: 20 JULY 2022

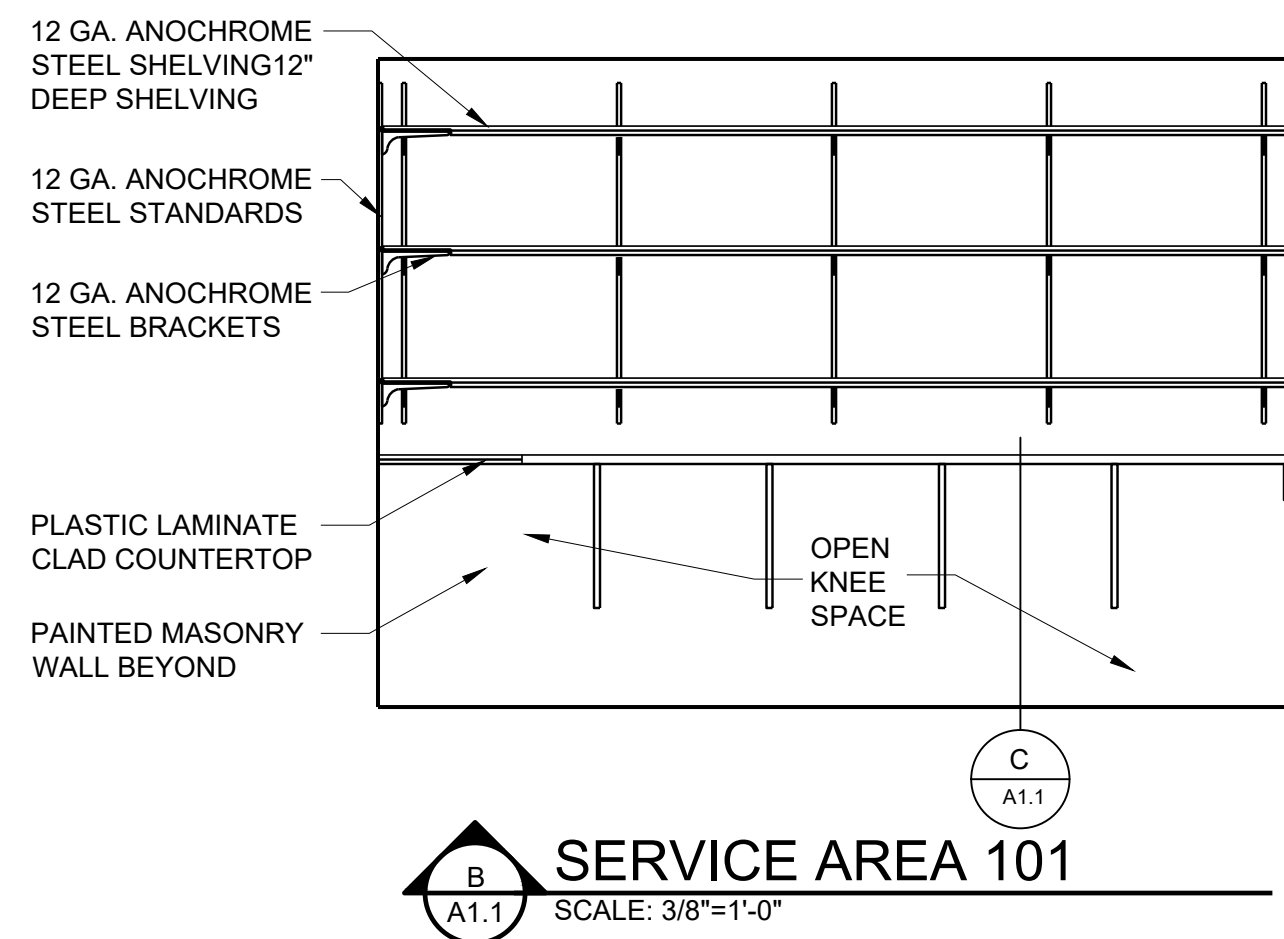
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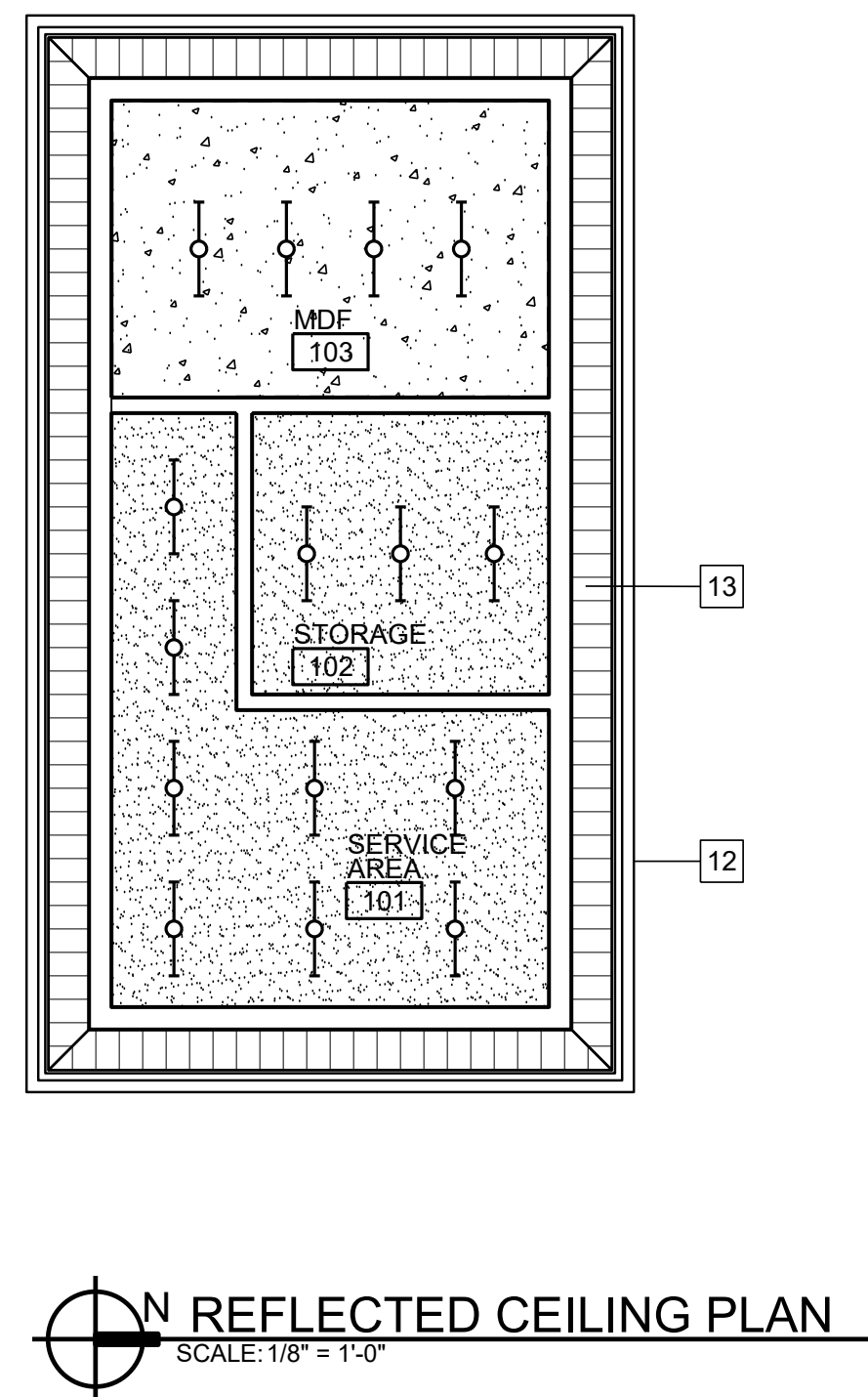
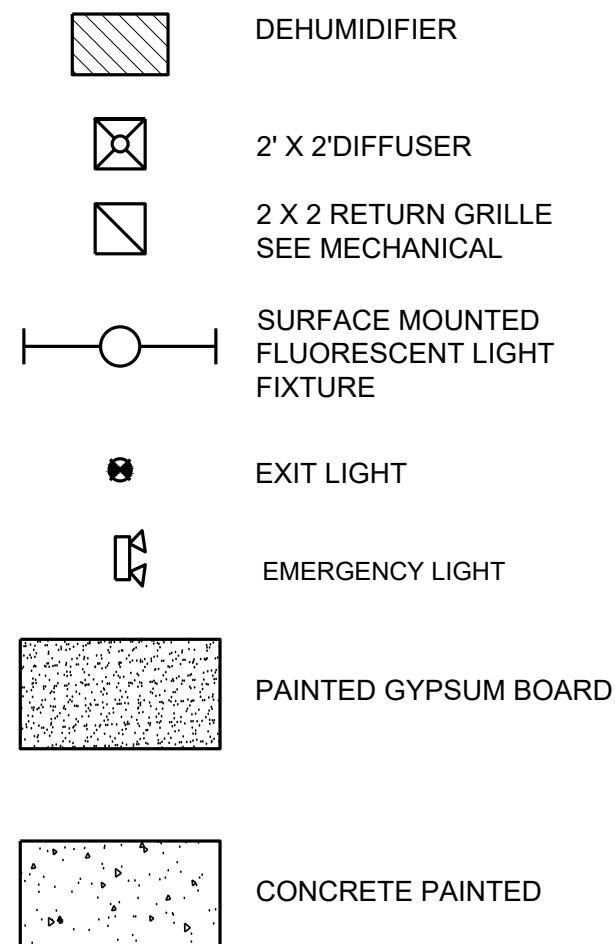
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3 OF 22

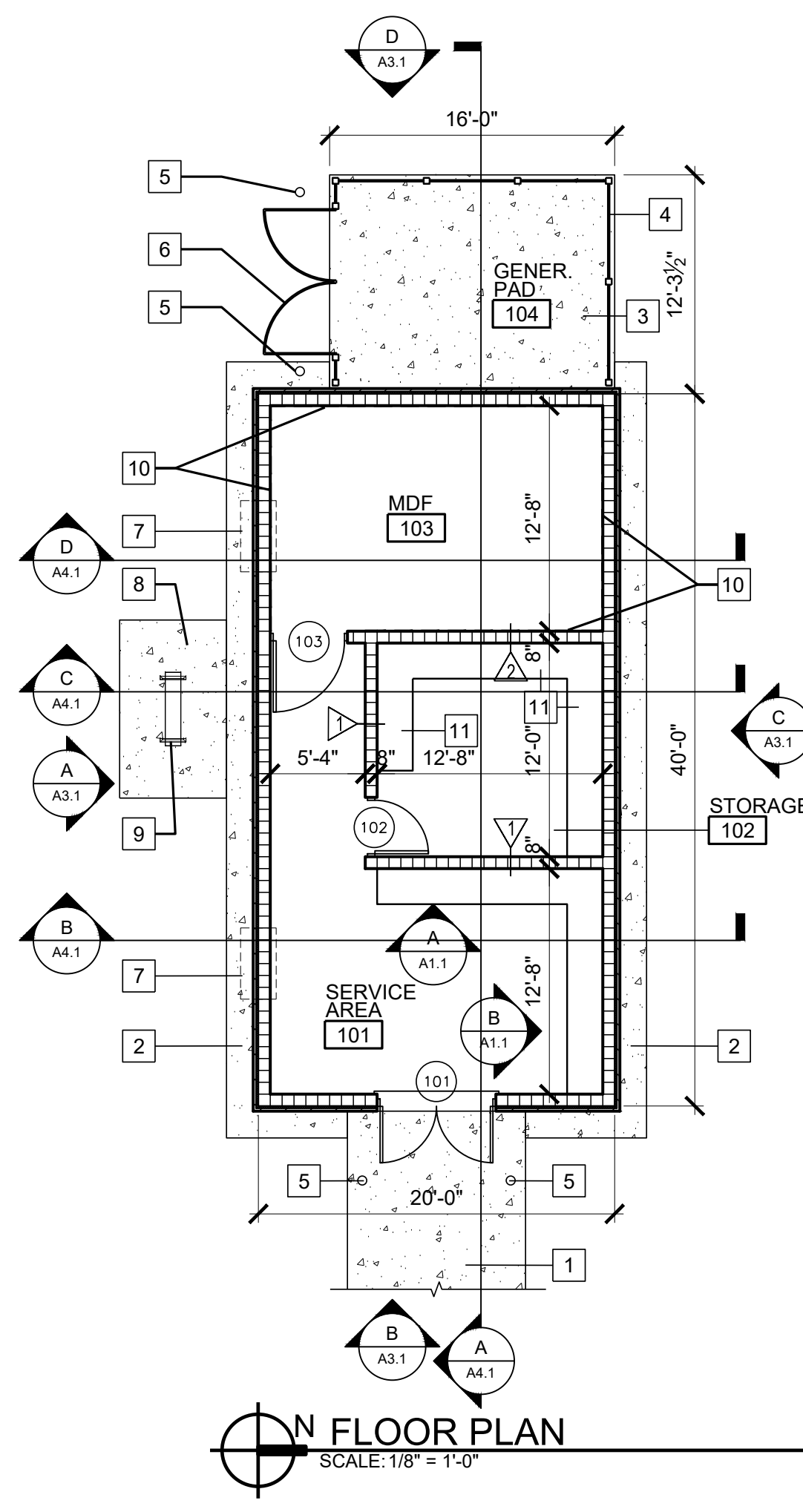


1. PAINT ALL EXPOSED GAS PIPING. SEE PLUMBING & SPECIFICATIONS FOR LOCATIONS & COLOR.
2. ALL STEEL SUPPORT PENETRATIONS THROUGH ROOF SYSTEM TO RECEIVE FLASHING IN ACCORDANCE WITH STANDARD SMACNA DETAILS/ REQUIREMENTS.
3. G.C. TO REMOVE ALL DEBRIS. CONSTRUCTION MATERIALS, ETC. AFTER ALL ROOF WORK COMPLETED.
4. SEE PLUMBING SHEETS FOR HAS PIPING LAYOUT
5. FURNISH AND INSTALL PIPE PENETRATION PER DTL. WHERE PENETRATIONS ARE REQUIRED.
6. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR INSTALLATION OF A WEATHERIGHT/ BONDED ROOF WHETHER SPECIFICALLY INDICATED BY THE DRAWINGS OR SPECIFICATIONS OR NOT
7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF TOP MOUNTED EQUIPMENT. ROOFING CONTRACTOR TO COORDINATE ROOFING WORK WITH ALL TRADES TO PROVIDE NECESSARY MATERIALS TO FLASH ALL ROOF PENETRATIONS WHETHER SPECIFICALLY SHOWN ON ROOF PLAN OR REQUIRED BY OTHER DOCUMENTS DEFINING THE WORK OF THIS CONTRACT. FLASHING OF ALL PENETRATIONS SHALL BE AS RECOMMENDED BY THE ROOF MANUFACTURER TO MEET THE REQUIREMENTS FOR A BONDED ROOF.
8. FLASHING OF ALL PENETRATIONS SHALL BE AS RECOMMENDED BY THE ROOF MANUFACTURER TO MEET THE REQUIREMENTS FOR A BONDED ROOF AS SHOWN ON ROOF PLAN AND/ OR AS REQUIRED BY OTHER DOCUMENTS DEFINING THE WORK OF THIS CONTRACT.
9. ALL INCIDENTAL WOOD BLOCKING SHALL BE PRESSURE TREATED MATERIAL AS DEEMED BY THE SPECIFICATIONS. COORDINATE WITH ROOF MANUFACTURER TO INSURE COMPATIBILITY WITH THE ROOFING SYSTEM.
10. GENERAL CONTRACTOR SHALL PROVIDE THE STEEL FABRICATOR THE DIMENSIONAL INFORMATION FOR ALL EQUIPMENT CURBS FOR COORDINATION PRIOR TO FABRICATION.
11. NEW MATERIALS SHALL BE DISBURSED ON ROOF TO AVOID OVERLOAD OF STRUCTURE.
12. ALL SHEET METAL FLASHING & TRIM TO BE INSTALLED PER SMACNA STANDARDS.
13. DOWNSPOUT ANCHORING AND SUPPORTS:
 - 13.A. DOWNSPOUTS OF HEIGHTS 1'-5" SHALL BE SECURED BY A MINIMUM OF TWO ANCHOR STRAPS/ SUPPORTS.
 - 13.B. DOWNSPOUTS OF HEIGHTS 5'-10" SHALL BE SECURED BY A MINIMUM OF THREE ANCHOR STRAPS/ SUPPORTS.
 - 13.C. DOWNSPOUTS OF HEIGHTS 10'-15" SHALL BE SECURED BY A MINIMUM OF FOUR ANCHOR STRAPS/ SUPPORTS.
 - 13.D. DOWNSPOUTS OF HEIGHTS 15'-20" SHALL BE SECURED BY A MINIMUM OF FIVE ANCHOR STRAPS/ SUPPORTS.
 - 13.E. ANCHORS & STRAPS SHALL BE INSTALLED EQUALLY SPACED.

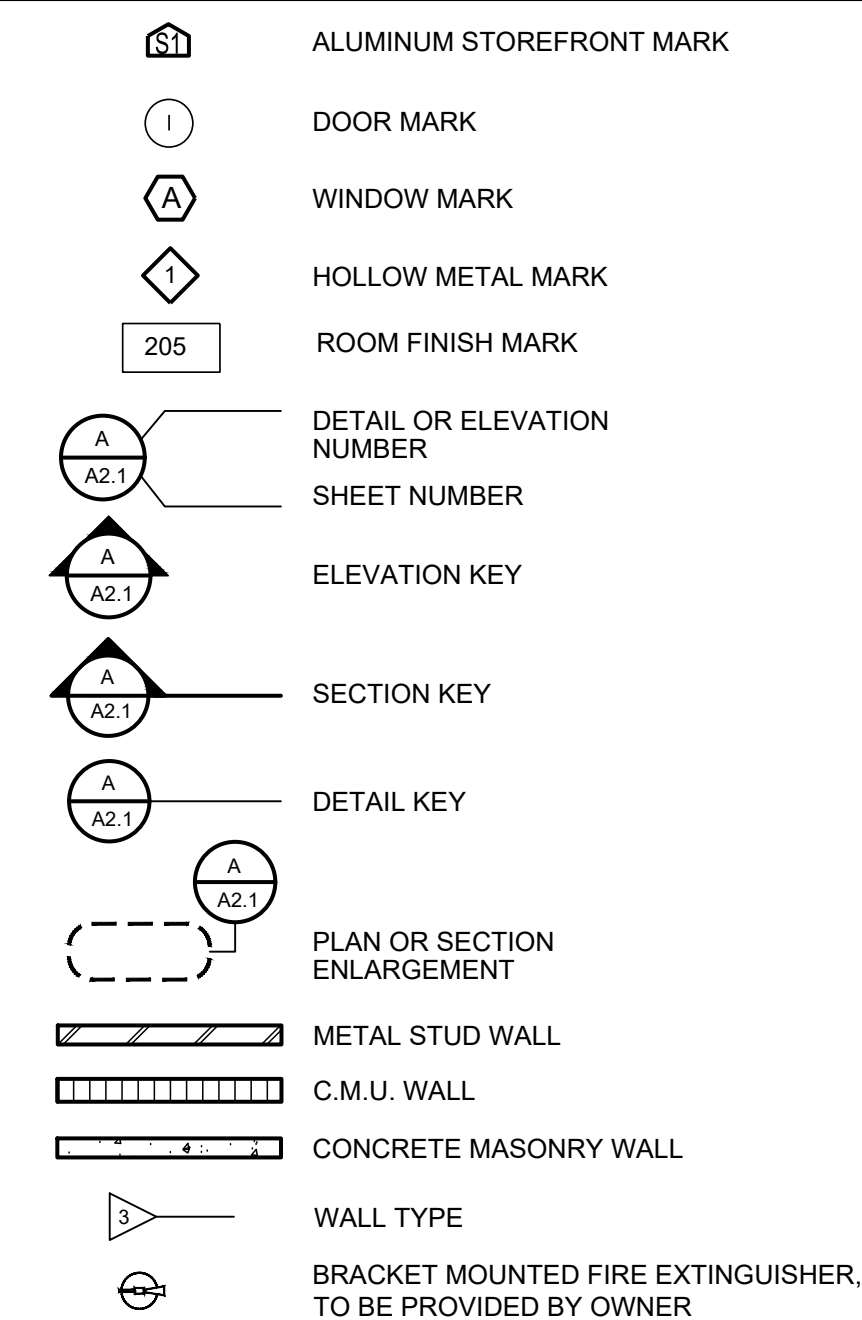


1. CONCRETE SERVICE DRIVE - SEE CIVIL DRAWINGS
2. 2'-0" WIDE X 4" THICK CONCRETE MOW STRIP
3. 6" THICK 4000 PSI REINFORCED CONCRETE PAD FOR GENERATOR / ELECTRICAL EQUIPMENT. SLOPE MINIMUM 1/4" PER FOOT SLOPE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
4. FE-6 CHAINLINK SECURITY FENCING WITH 84" FENCE FABRIC
5. 6" DIAMETER CONCRETE FILLED STEEL BOLLARD - SEE DETAIL
6. PAIR OF FE-6 SECURITY FENCING GATES WITH 84" FENCE FABRIC. PROVIDE LATCH TO RECEIVE OWNER FURNISHED AND INSTALLED PADLOCK.
7. WALL MOUNTED HVAC UNIT - SEE MECHANICAL
8. EXTERIOR HVAC UNIT - SEE MECHANICAL
9. 6" THICK CONCRETE PAD FOR MECHANICAL UNIT
10. 3/4" FIRE-RESISTANT A-C GRADE PLYWOOD TELECOMM BACKBOARD WITH FULLY PAINTED FINISH.

1. ALL WALLS, EXPOSED STRUCTURE, ETC. ARE TO RECEIVE NEW FINISHES (REFER TO SCHEDULE).
2. REFER TO PLANS, DETAILS, SECTIONS, AND SCHEDULES FOR COLOR, TYPE, AND FINISH OF INTERIOR FINISHES.
3. ALL INTERIOR AND EXTERIOR FINISHES / COLORS MUST BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO BEGINNING INSTALLATION.
4. INTERIOR FINISHES SHALL NOT BE APPLIED / INSTALLED UNTIL THE D.W.I. IS ADEQUATELY: LIT, VENTILATED, OR CONDITIONED.
5. DIMENSIONS SHOWN ARE TO THE FACE OF GYPSUM BOARD WALL OR MASONRY WALL UNLESS OTHERWISE NOTED.
6. REFER TO REFLECTED CEILING PLAN (RCP) FOR SPECIFIC CEILING TYPE(S) AND HEIGHTS.
7. CONTRACTOR SHALL PROTECT ALL NEW INTERIOR FURNISHING ITEMS (IE. MILLWORK, MARKERBOARDS, TACKBOARD, SIGNAGE, ETC.) FROM DIRT, DEBRIS, H2O, AND STAINS. ETC. UNDER FINAL ACCEPTANCE BY THE OWNER AND ARCHITECT.
8. ALL CONCRETE PADS INDICATED FOR INSTALLATION AND MOUNTING OF MECHANICAL OR ELECTRICAL ITEMS SHALL BE TO BE EXTEND A MINIMUM OF 36" BEYOND THE REQUIRED CLEARANCE DIMENSIONS INDICATED ON THE EQUIPMENT MANUFACTURER'S SUBMITTALS. THE CONTRACTOR SHALL PREPARE A FULL SUBMITTAL TO THE ARCHITECT AND ENGINEER INDICATING ALL EQUIPMENT LAYOUTS INCLUDING ALL CLEARANCE DIMENSIONS PRIOR TO INSTALLATION OF SUCH CONCRETE PADS AND EQUIPMENT.

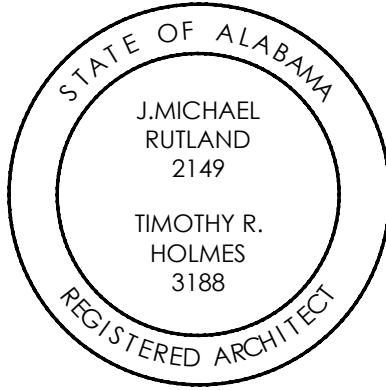


- 11** 24" DEEP FIXED METAL STORAGE SHELVING - SEE SPECIFICATIONS
- 12** PRE-FINISHED GUTTERS AND DOWNSPOUTS
- 13** PRE-FINISHED METAL SOFFIT PANELS
- 14** PRE-FINISHED STANDING SEAM METAL ROOFING SYSTEM



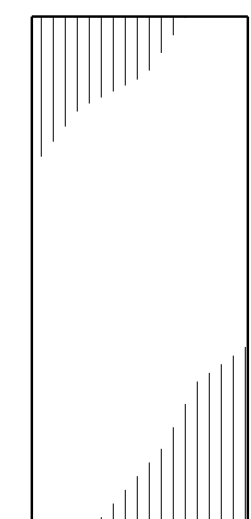
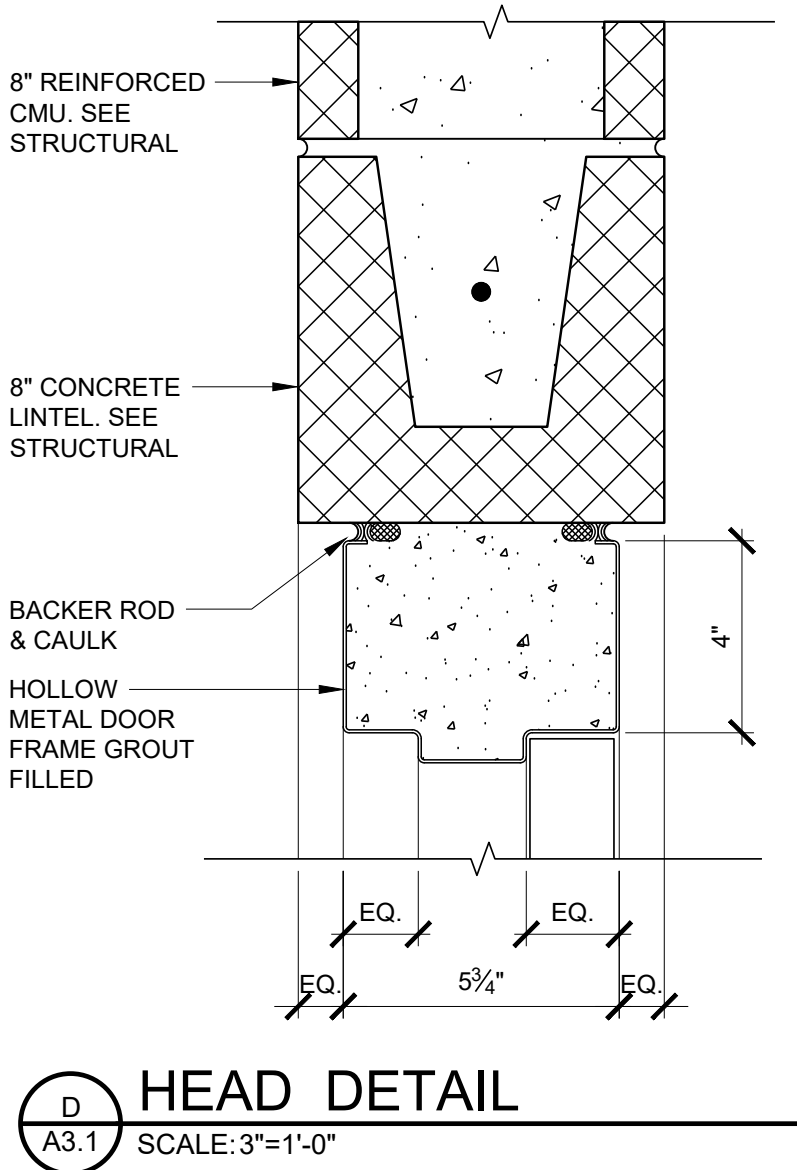
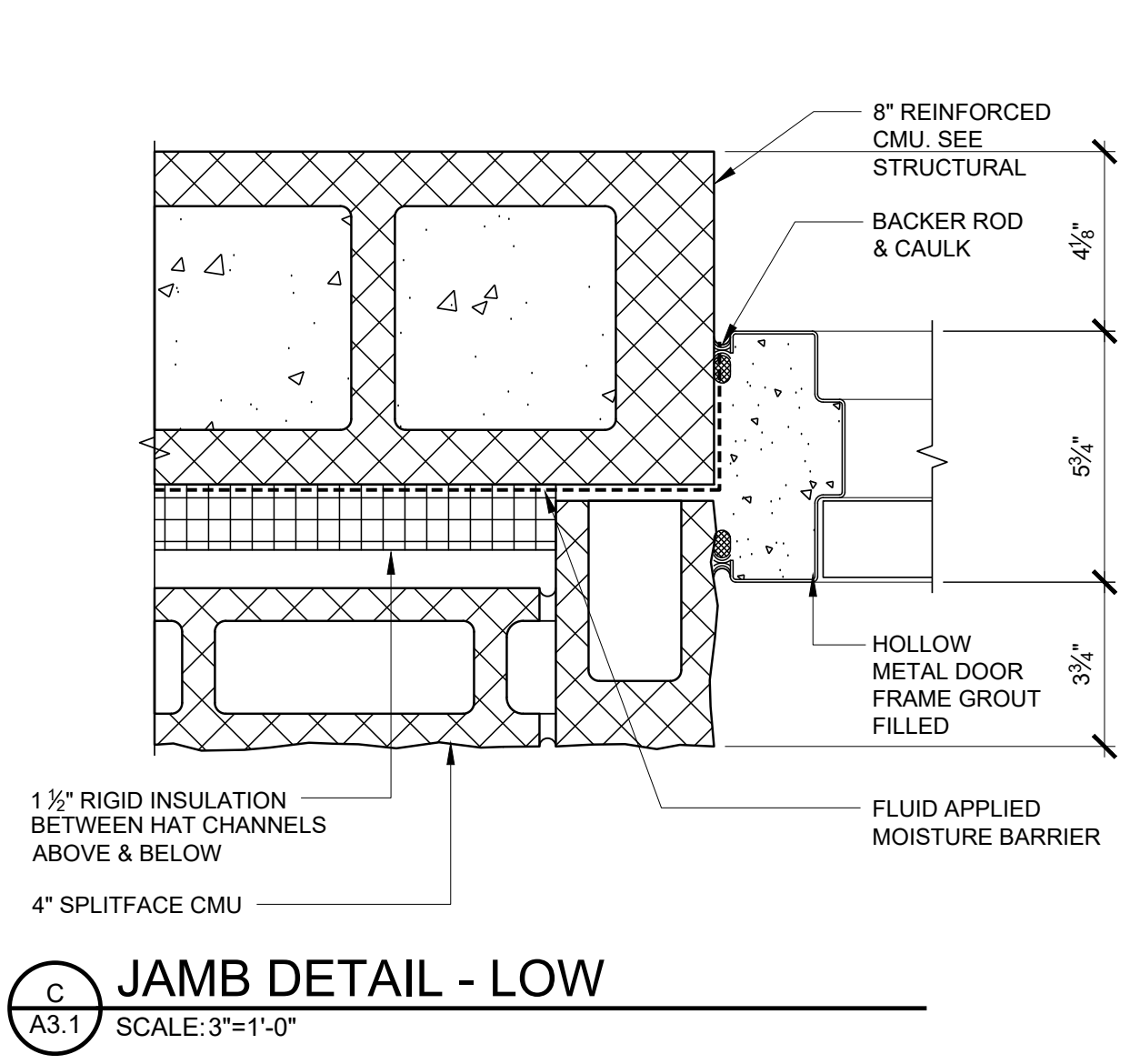
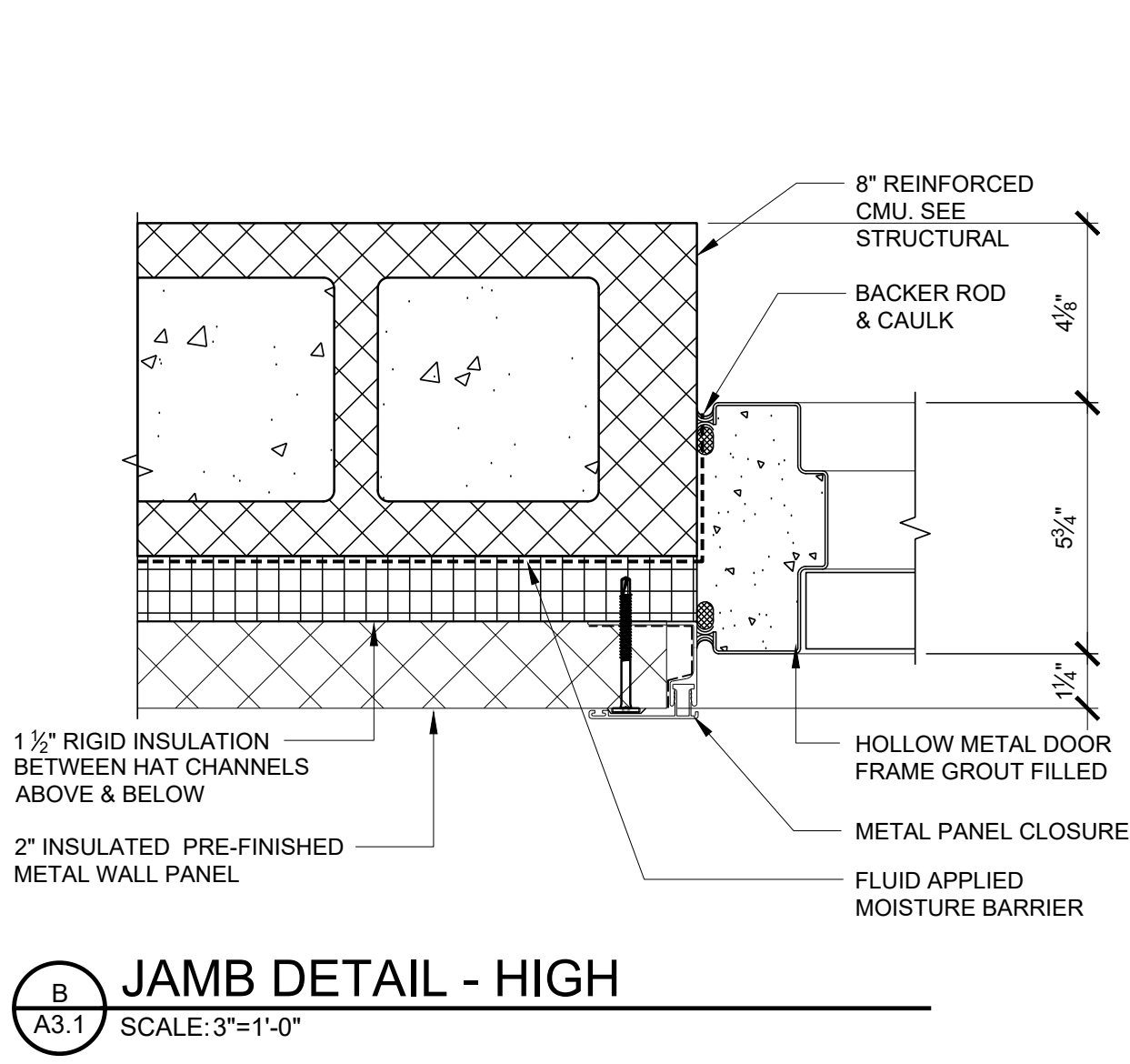
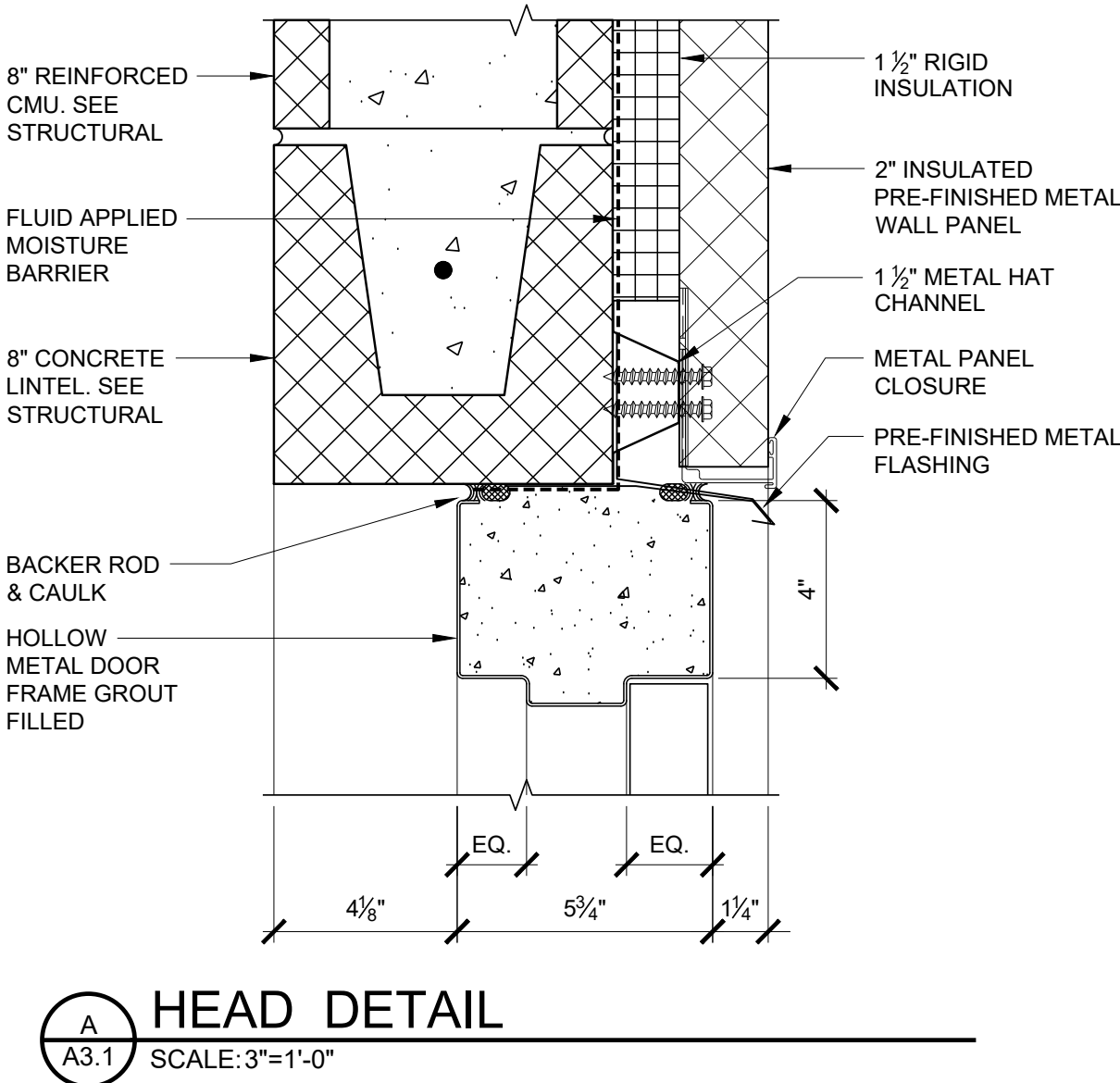
4 OF 22

FILE NAME: W:\UMRH Projects 2021\21-1078 Pelham Range Telecommunications Infrastructure Modernization\A3.1Exterior Elevations.dwg PLOT DATE: 7/14/2022 @ 8:21 AM



PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION

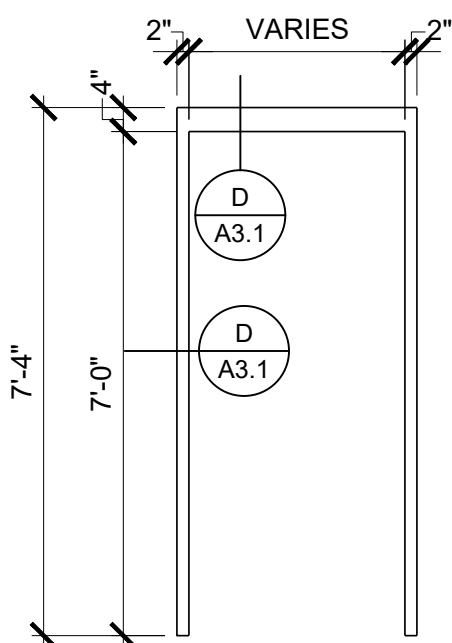
Pelham Range, Alabama
IFB# AC-22-B-0029-S



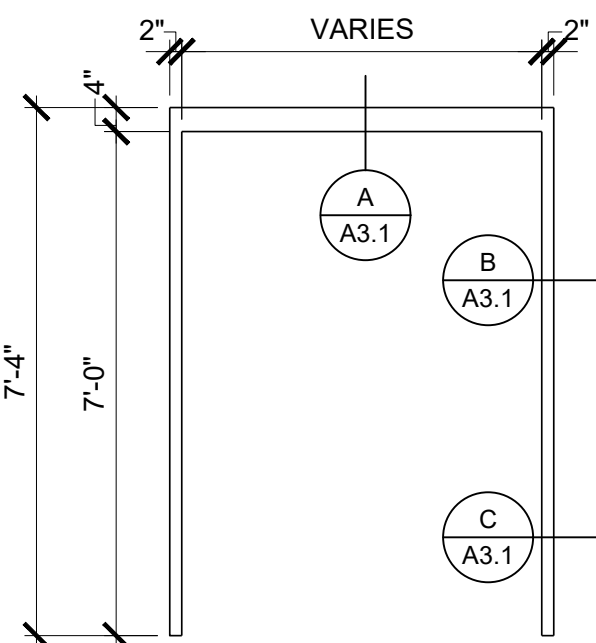
A 1 1/2" FLUSH PANEL
INSULATED
METAL DOOR,
PRIME & PAINT

DOOR TYPES

SCALE: 3/8"=1'-0"



1 SINGLE LEAF HOLLOW
METAL FRAME, PRIME &
PAINT



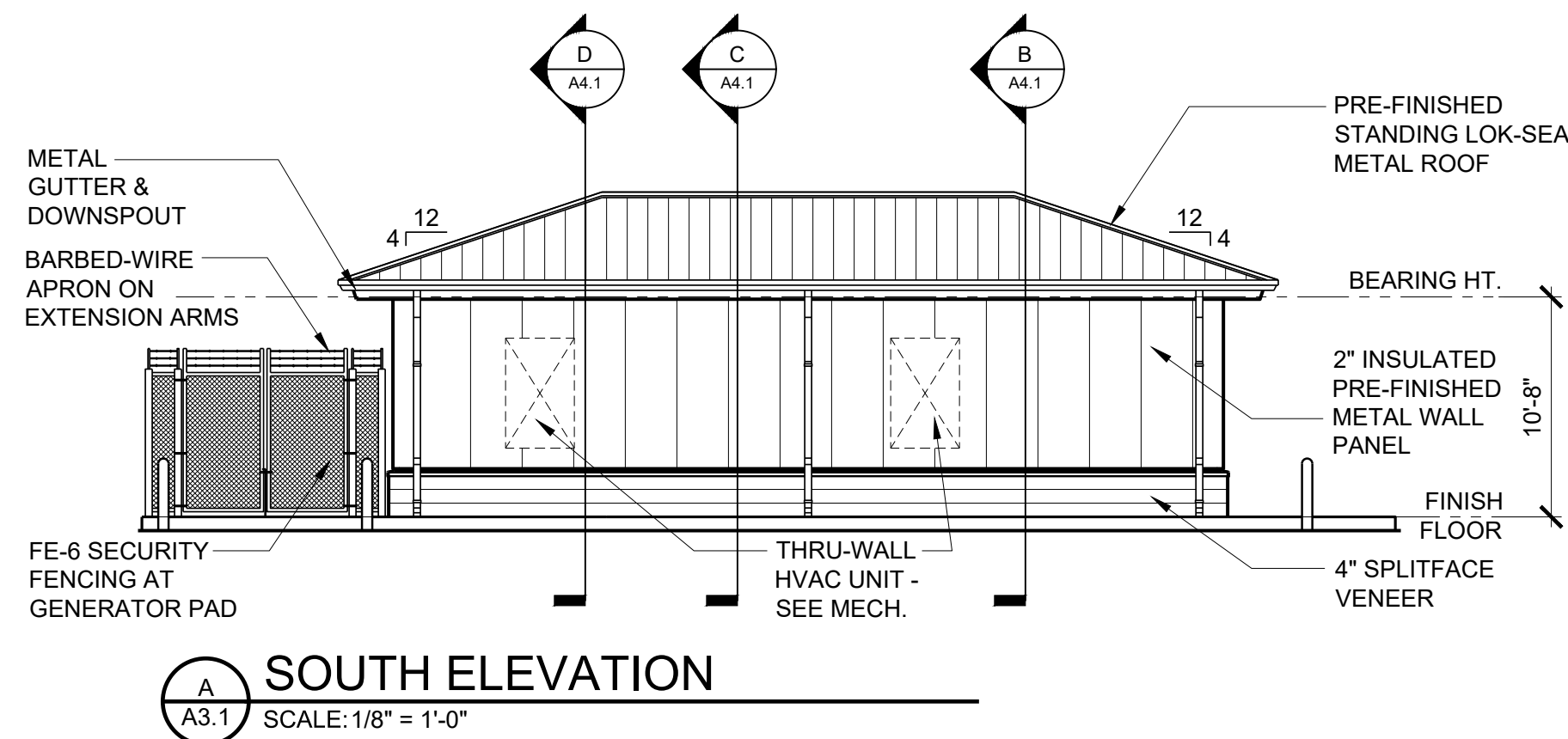
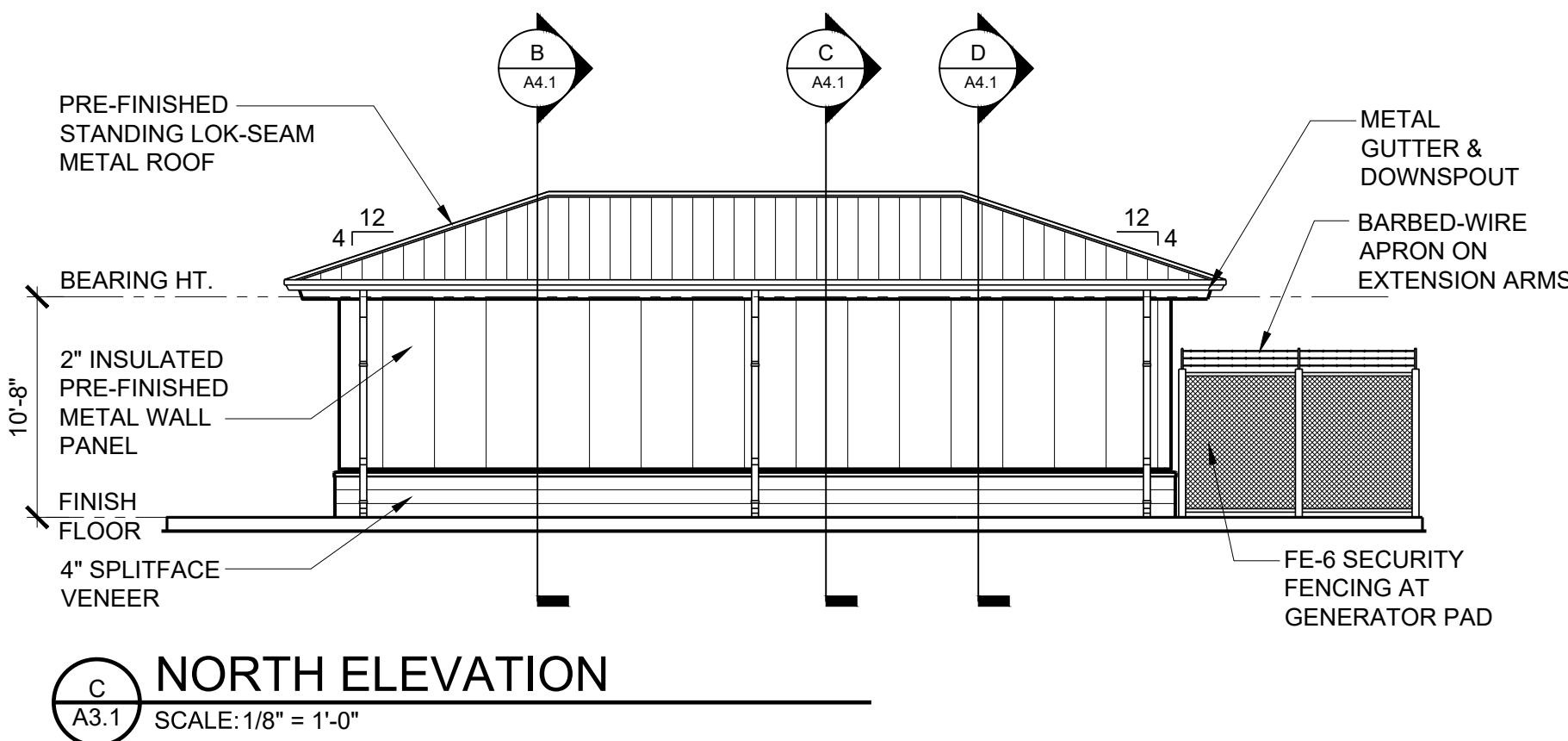
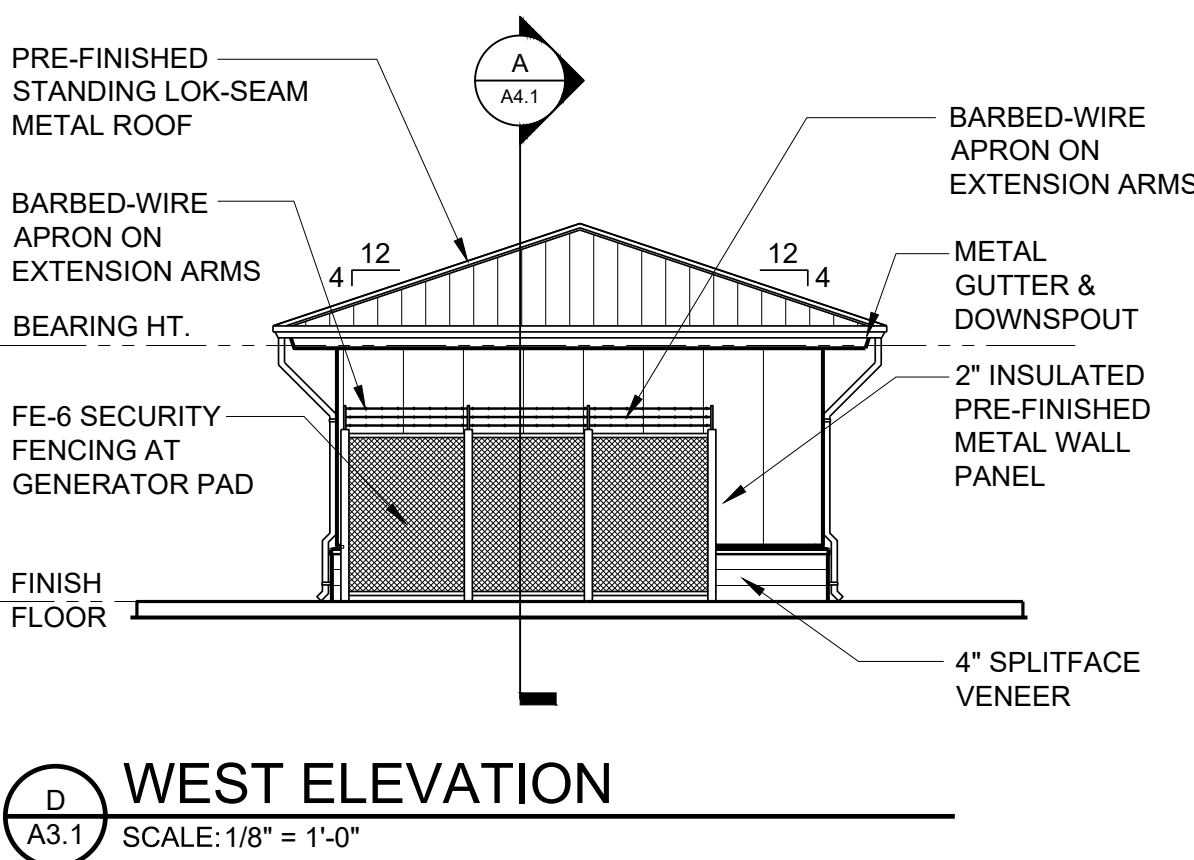
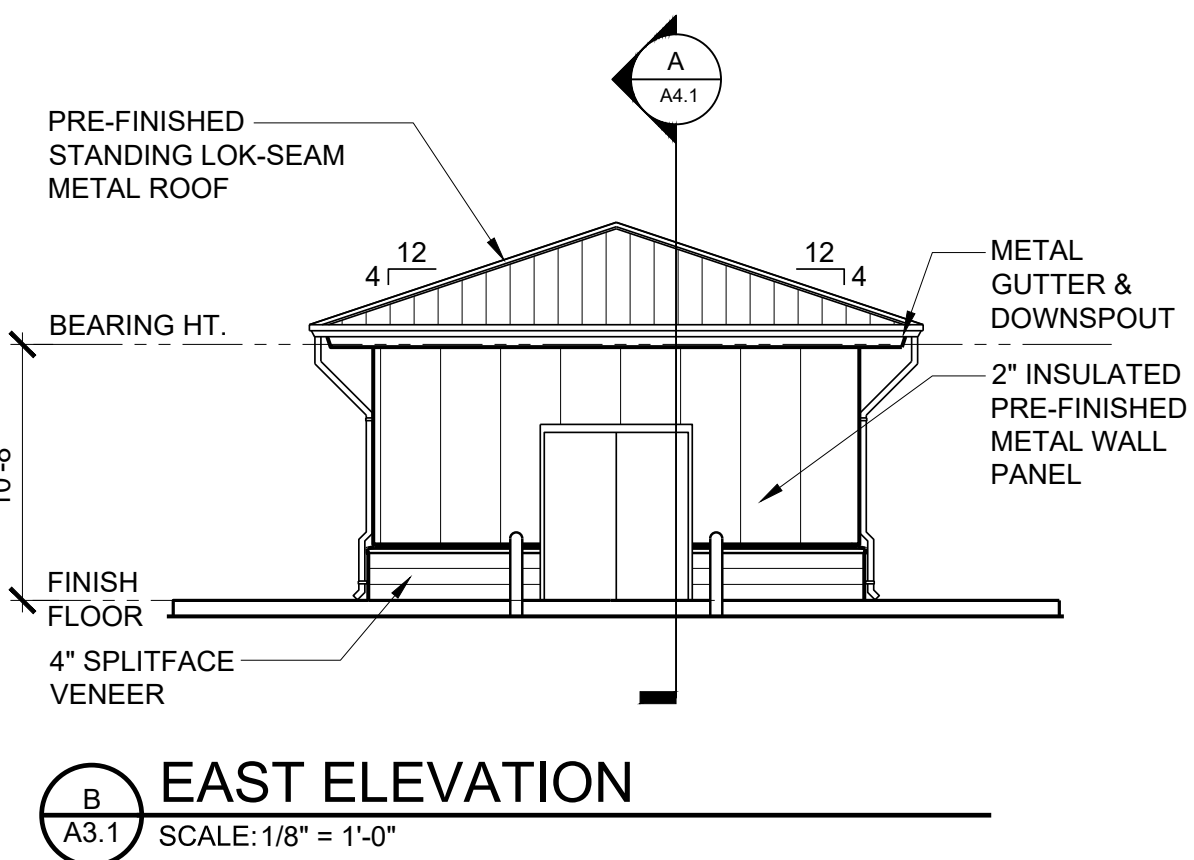
2 DOUBLE LEAF HOLLOW
METAL FRAME, PRIME &
PAINT

FRAME TYPES

SCALE: 3/8"=1'-0"

| DOOR SCHEDULE | | | | | | |
|---------------|---|------------------------|------------|---------|--------|------------|
| NO. | DOOR TYPE | SIZE | FRAME TYPE | HDW SET | LABEL | GLASS TYPE |
| 101 | A | PR. 3'-0"X7'-0"X1 3/4" | 2 | 001 | ----- | ----- |
| 102 | A | 3'-0"X7'-0"X1 3/4" | 1 | 003 | 20 MIN | ----- |
| 103 | A | 3'-0"X7'-0"X1 3/4" | 1 | 002 | 20 MIN | ----- |
| REMARKS | | | | | | |
| 1 | ALL HOLLOW METAL DOOR & FRAME PARTS THIS OPENING SHALL BE "PAINT GRIP" GALVANIZED, PRIMED AND PAINTED. SEE SPECS. | | | | | |
| 2 | | | | | | |

| FINISH SCHEDULE | | | | | | | | | | | | | | | | | | |
|-----------------|--|---|---|---|---|--|---|---------|-----|--------------|---|---|---|---|---|--------|---|---|
| NO. | ROOM | FLOOR | BASE | WALLS | WAINSCOT | CEILING | HT. | REMARKS | | | | | | | | | | |
| | | CONCRETE SEALED AND HARDENED CONCRETE STAINED AND SEALED EPOXY FLOORING | CONCRETE SEALED AND HARDENED CONCRETE STAINED AND SEALED EPOXY FLOORING | 4" RESILIENT BASE EPOXY MONOLITHIC COVE BASE | CMU EPOXY PAINTED GYPSUM BOARD PAINTED M.F. GYP PAINTED EPOXY | CMU EPOXY PAINTED STAINLESS STEEL PANEL | M.F. GYPSUM BOARD PAINTED EPOXY ACOUSTICAL TILE (2 X 2) CONCRETE EPOXY PAINTED VINYL ACOUSTICAL TILE (2X2) | | | | | | | | | | | |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | 101 | SERVICE AREA | 1 | | 1 | | 1 | 10'-8" | | |
| 102 | STORAGE | 1 | | 1 | | 1 | 10'-8" | | | | | | | | | | | |
| 103 | MDF | 1 | | 1 | | 3 | EXPOSED | 1 | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | |
| 1 | 3/4" FIRE-RESISTANT PLYWOOD BACKBOARD PAINTED GRAY, SEE ELECTRICAL | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |



CONSTRUCTION GENERAL NOTES

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6. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR INSTALLATION OF A WEATHERTIGHT BONDING ROOF WHETHER SPECIFICALLY INDICATED BY THE DRAWINGS OR SPECIFICATIONS OR NOT.
7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF TOP MOUNTED EQUIPMENT. ROOFING CONTRACTOR TO COORDINATE ROOFING WORK WITH ALL TRADES TO PROVIDE NECESSARY MATERIALS TO FLASH ALL ROOF PENETRATIONS WHETHER SPECIFICALLY SHOWN ON ROOF PLAN OR REQUIRED BY OTHER DOCUMENTS DEFINING THE WORK OF THIS CONTRACT. FLASHING OF ALL PENETRATIONS SHALL BE AS RECOMMENDED BY THE ROOF MANUFACTURER TO MEET THE REQUIREMENTS FOR A BONDED ROOF.
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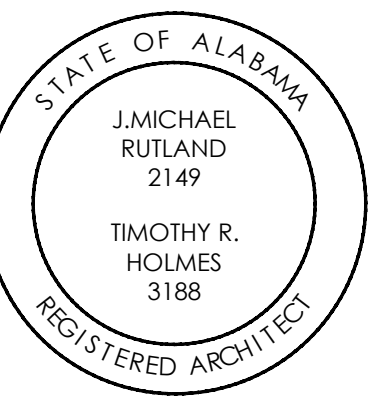
CONSTRUCTION DOCUMENTS

Project Number: 21-1078
Date: 20 JULY 2022
Revisions:

Sheet Description
EXTERIOR
ELEVATIONS,
DOOR & FINISH
SCHEDULES,
DETAILS

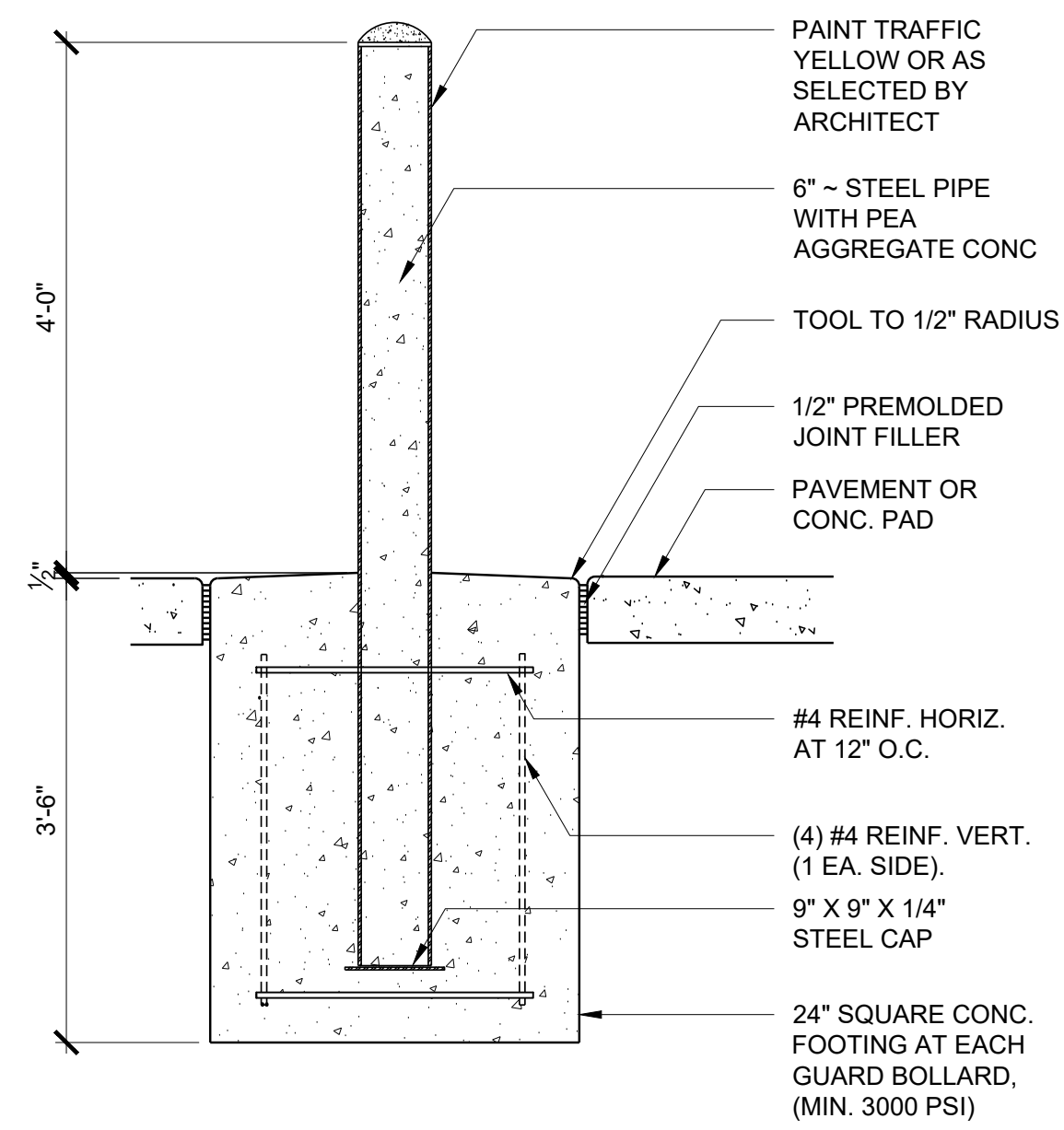
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A3.1

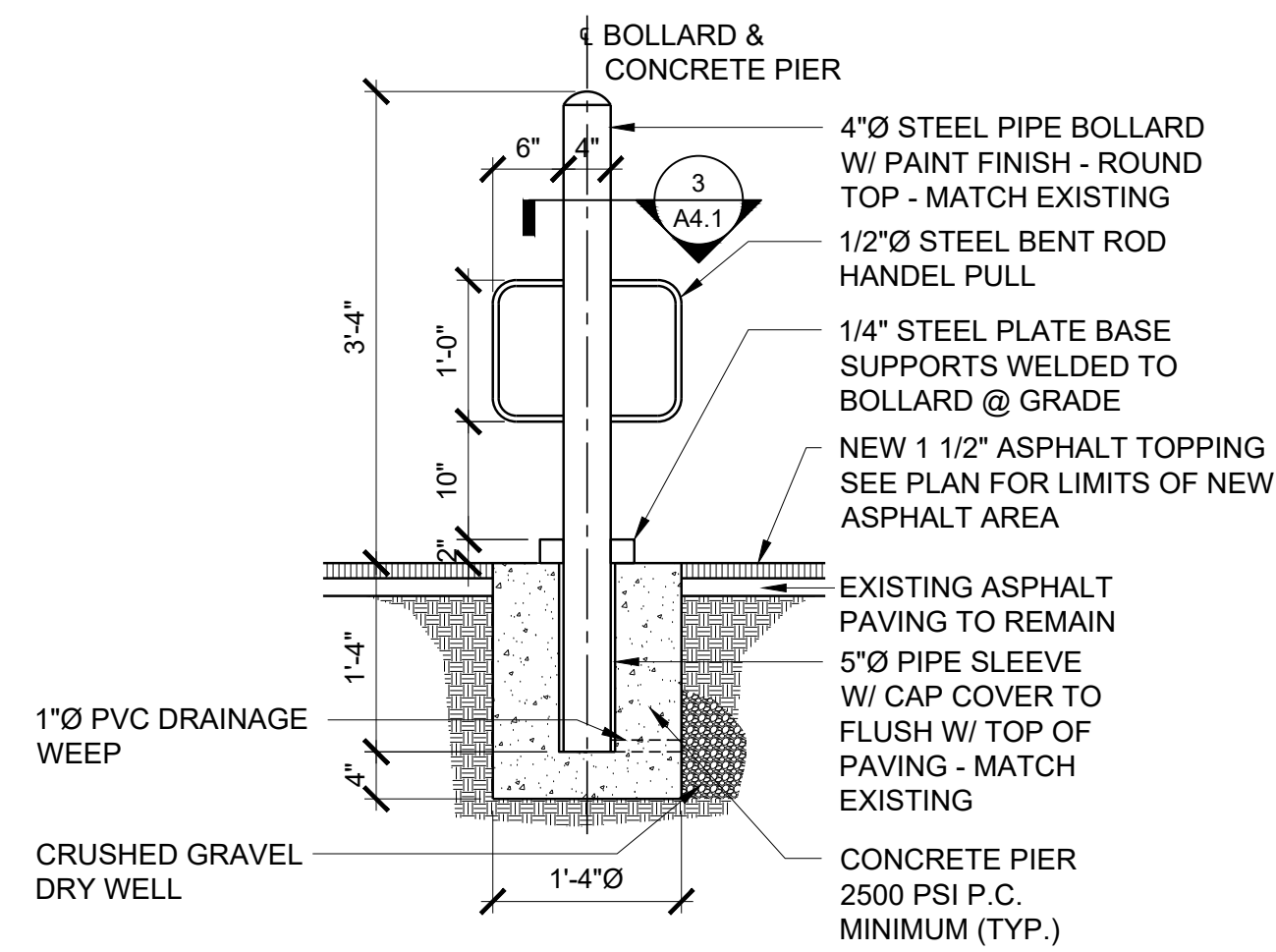


**PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION**

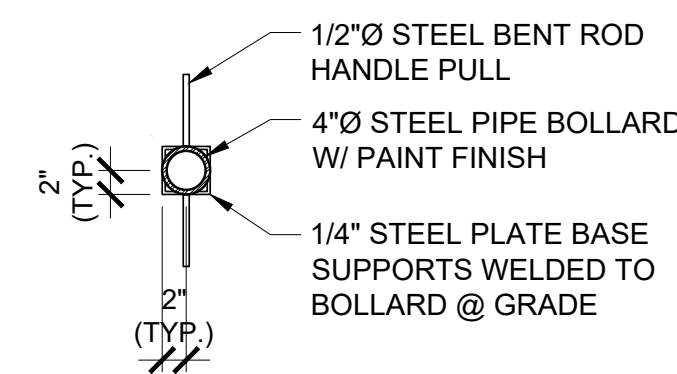
Pelham Range, Alabama
IFB# AC-22-B-0029-S



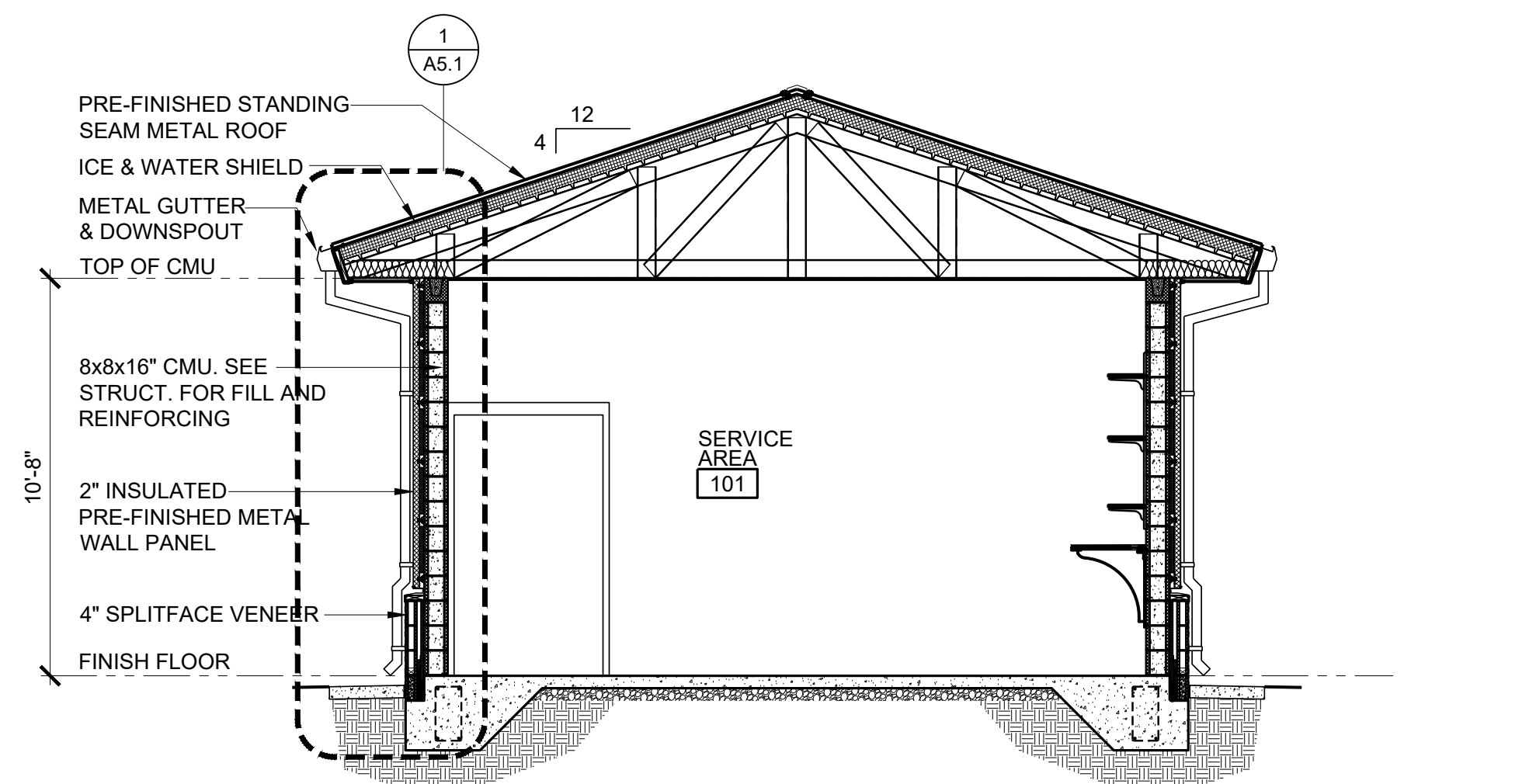
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A4.1 **FIXED BOLLARD DETAIL**
SCALE: 3/4" = 1'-0"



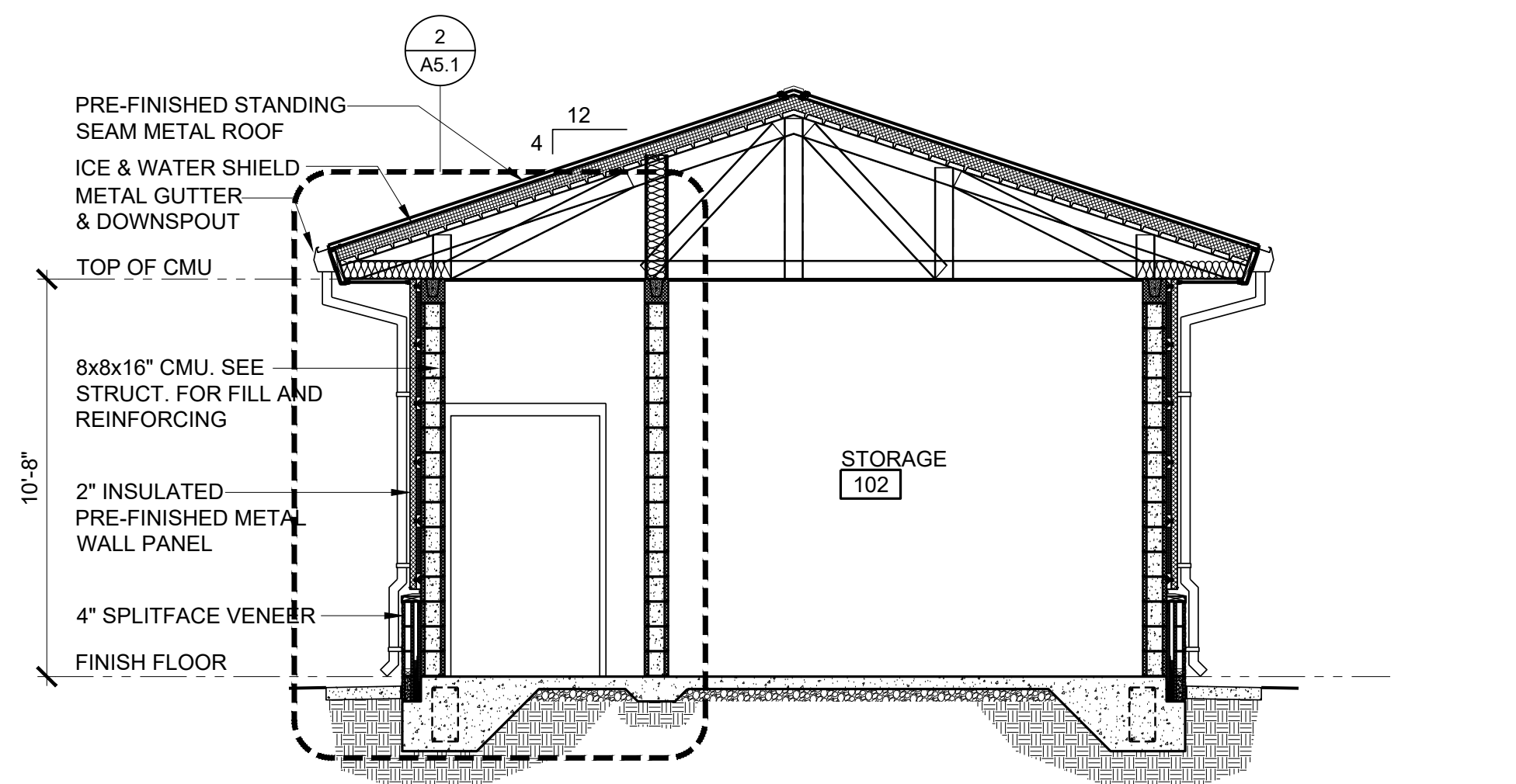
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A4.1 **REMOVABLE BOLLARD DETAIL**
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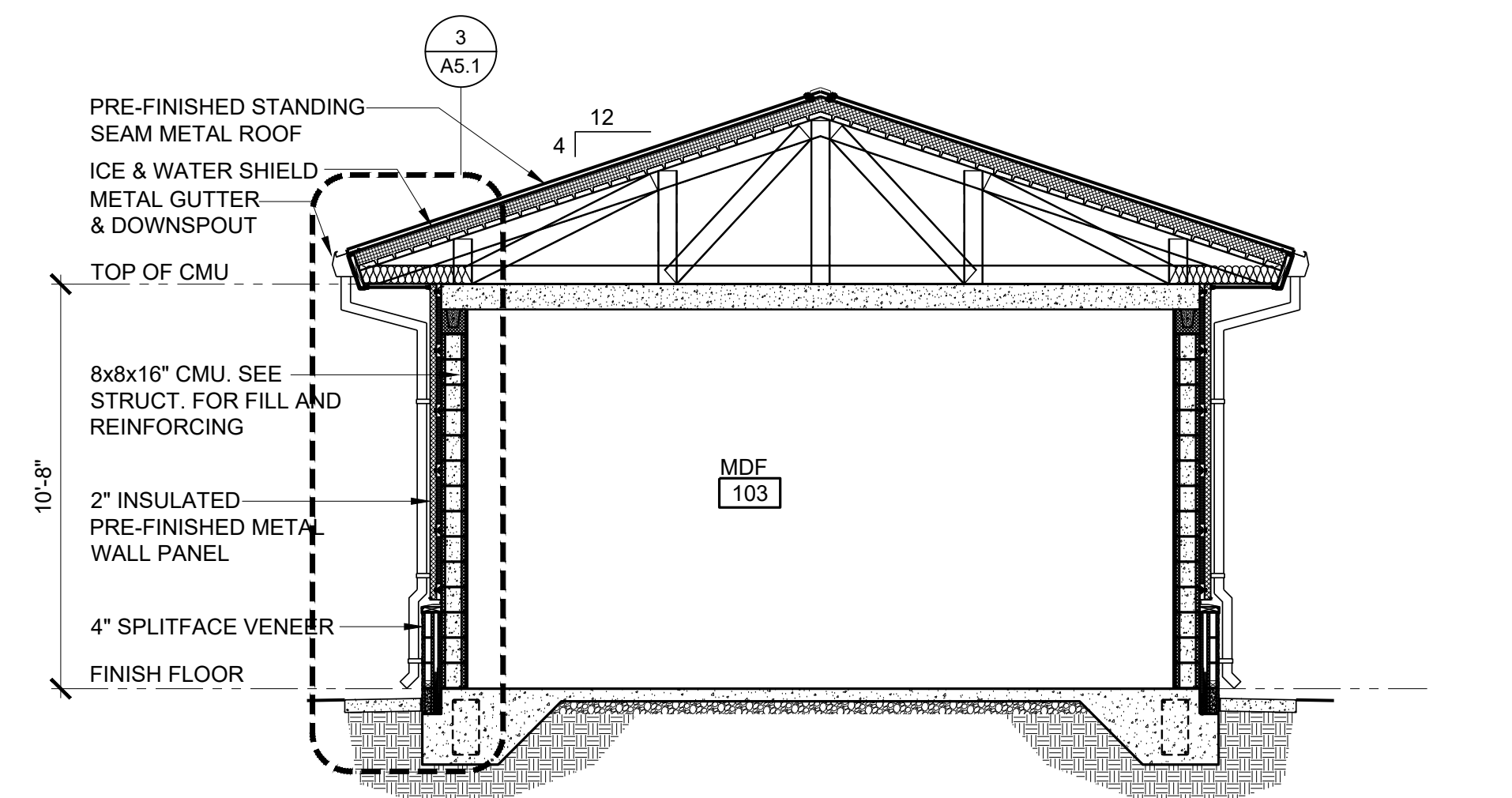
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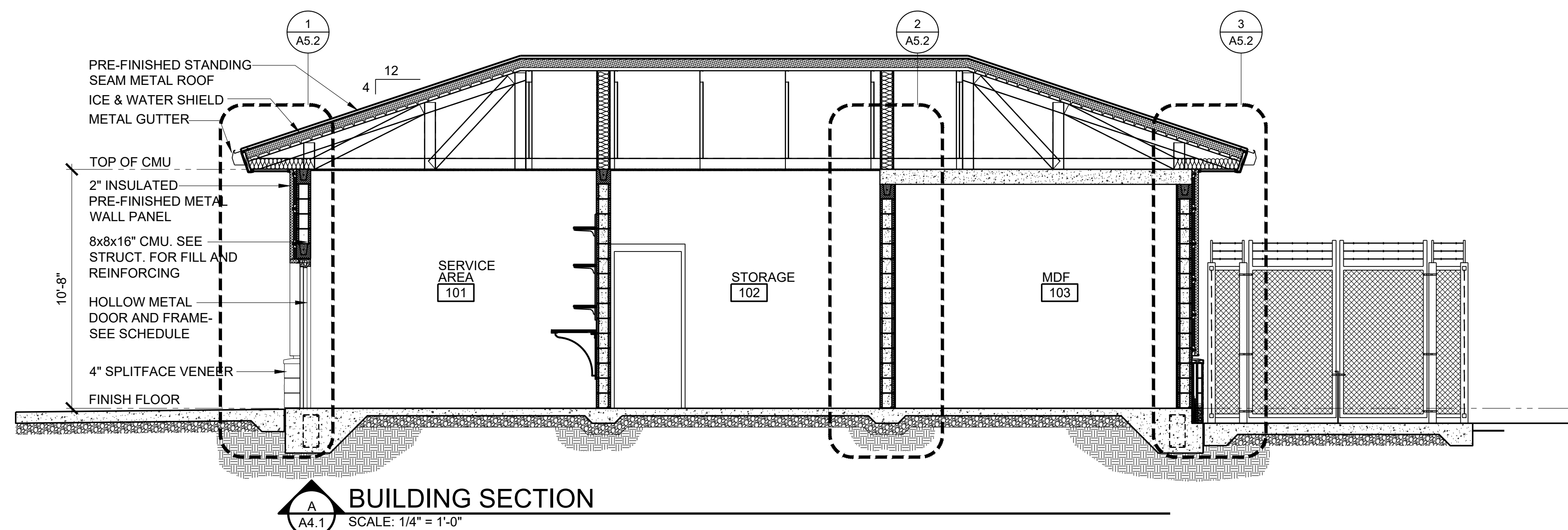
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C
A4.1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



D
A4.1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



A
A4.1 **BUILDING SECTION**
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**CONSTRUCTION
DOCUMENTS**

Project Number: 21-1078
Date: 20 JULY 2022
Revisions:

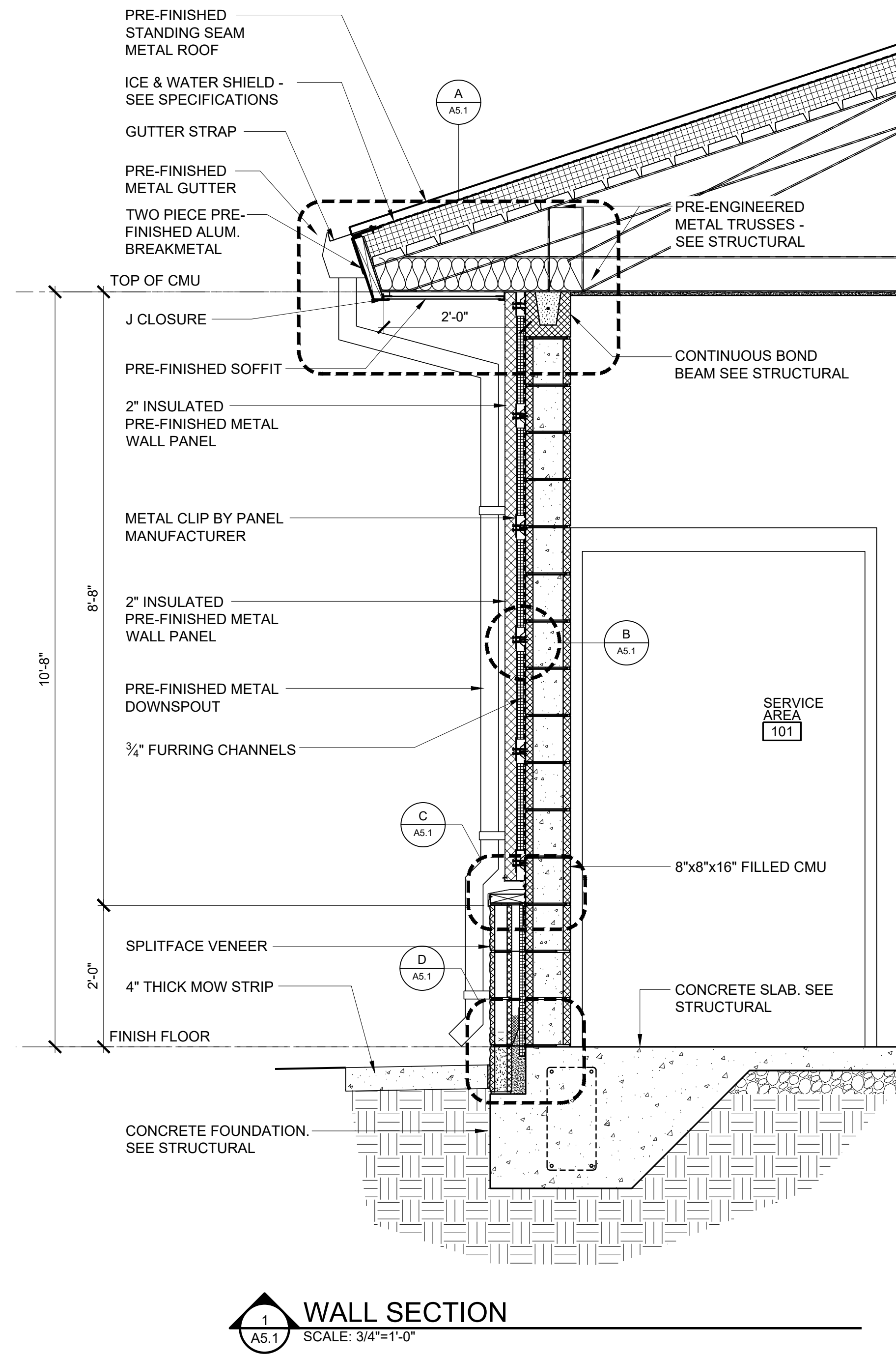
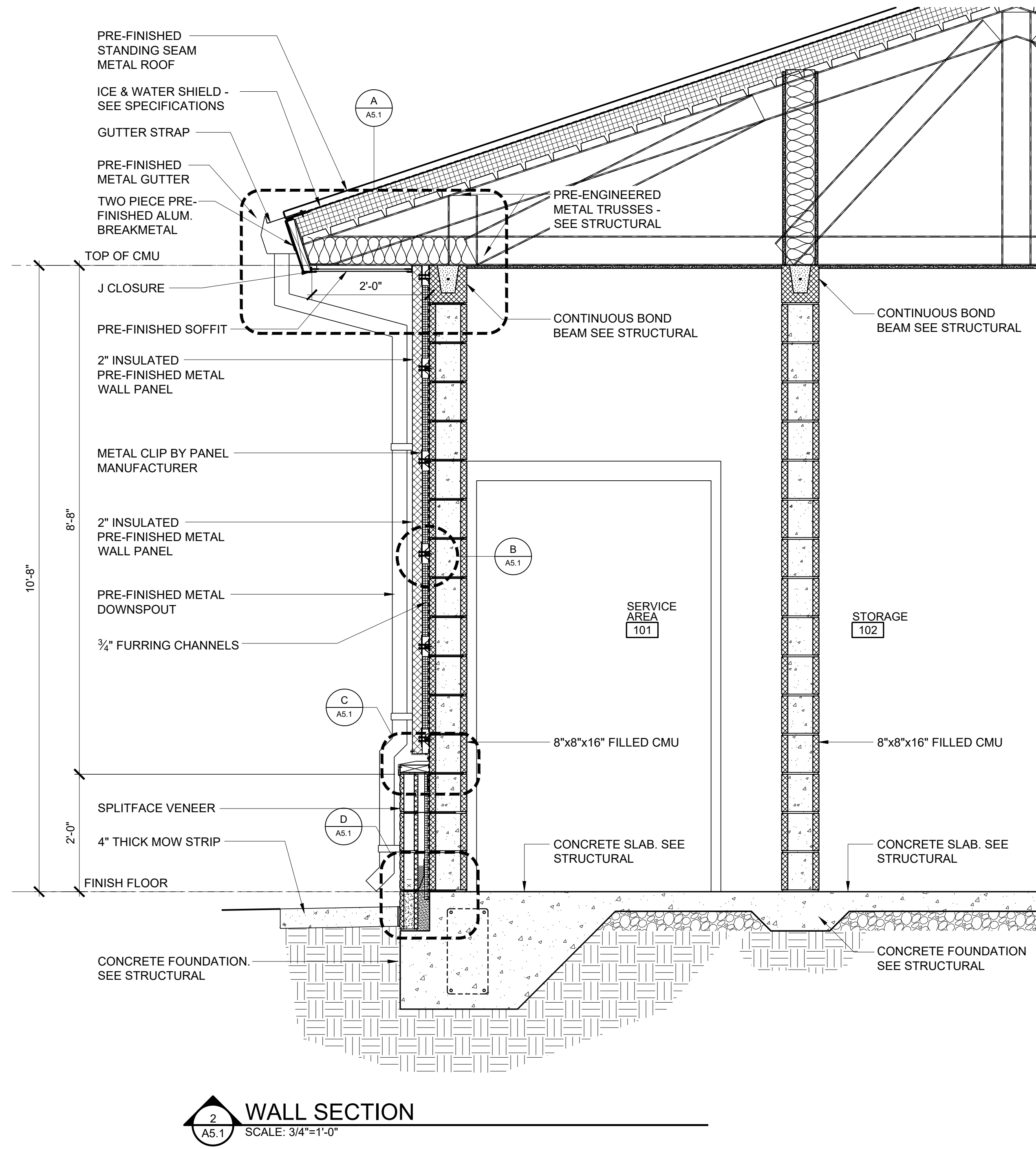
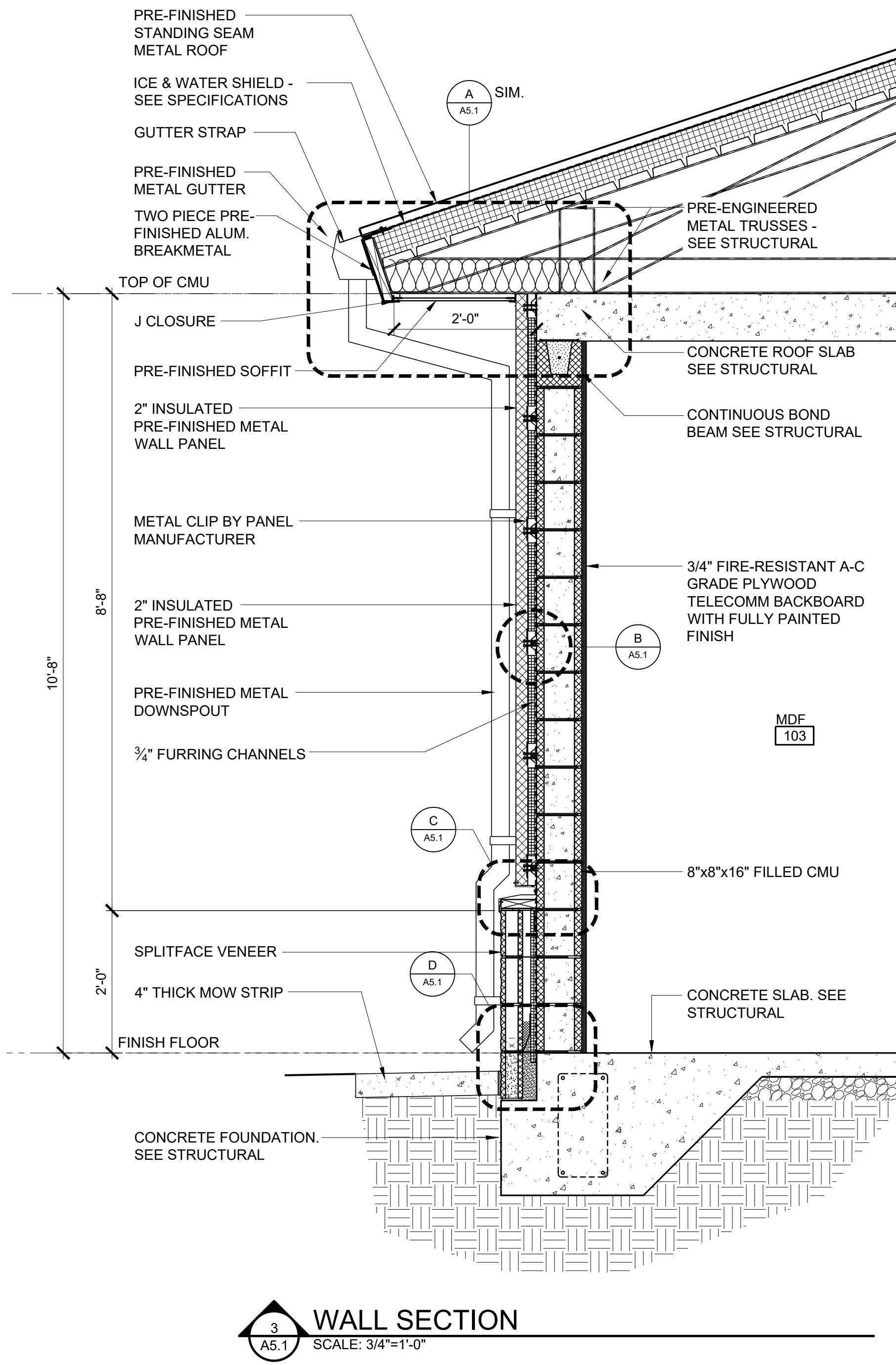
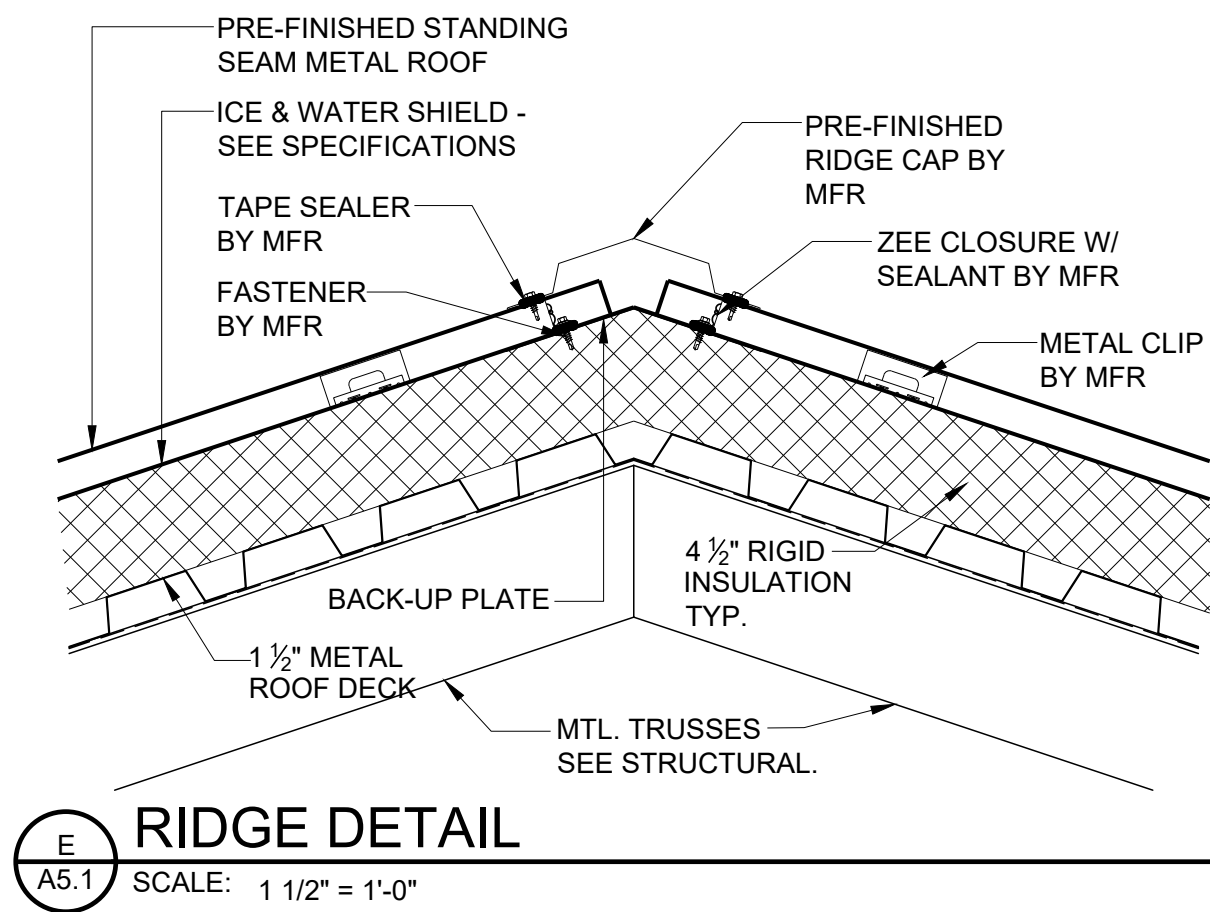
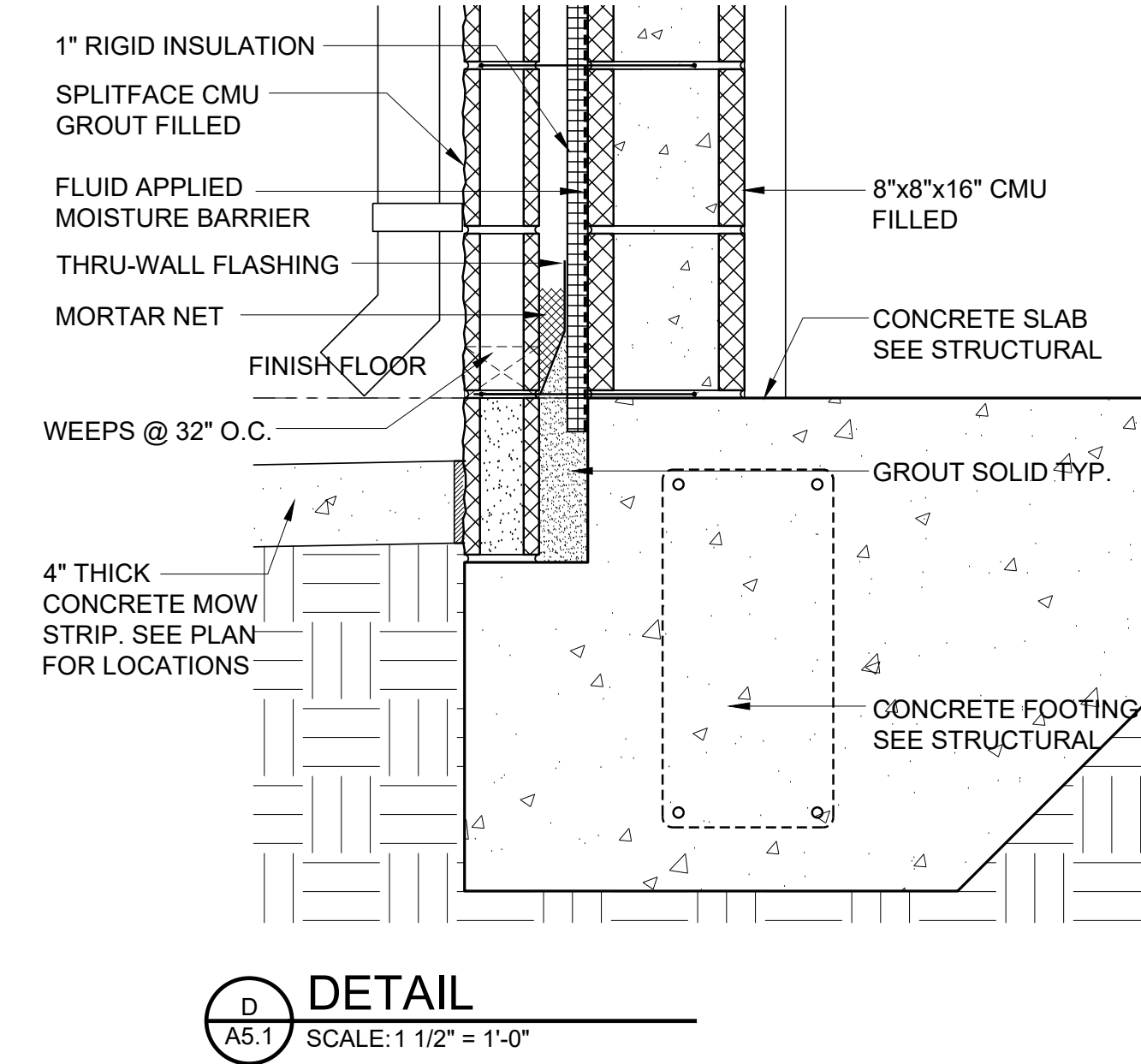
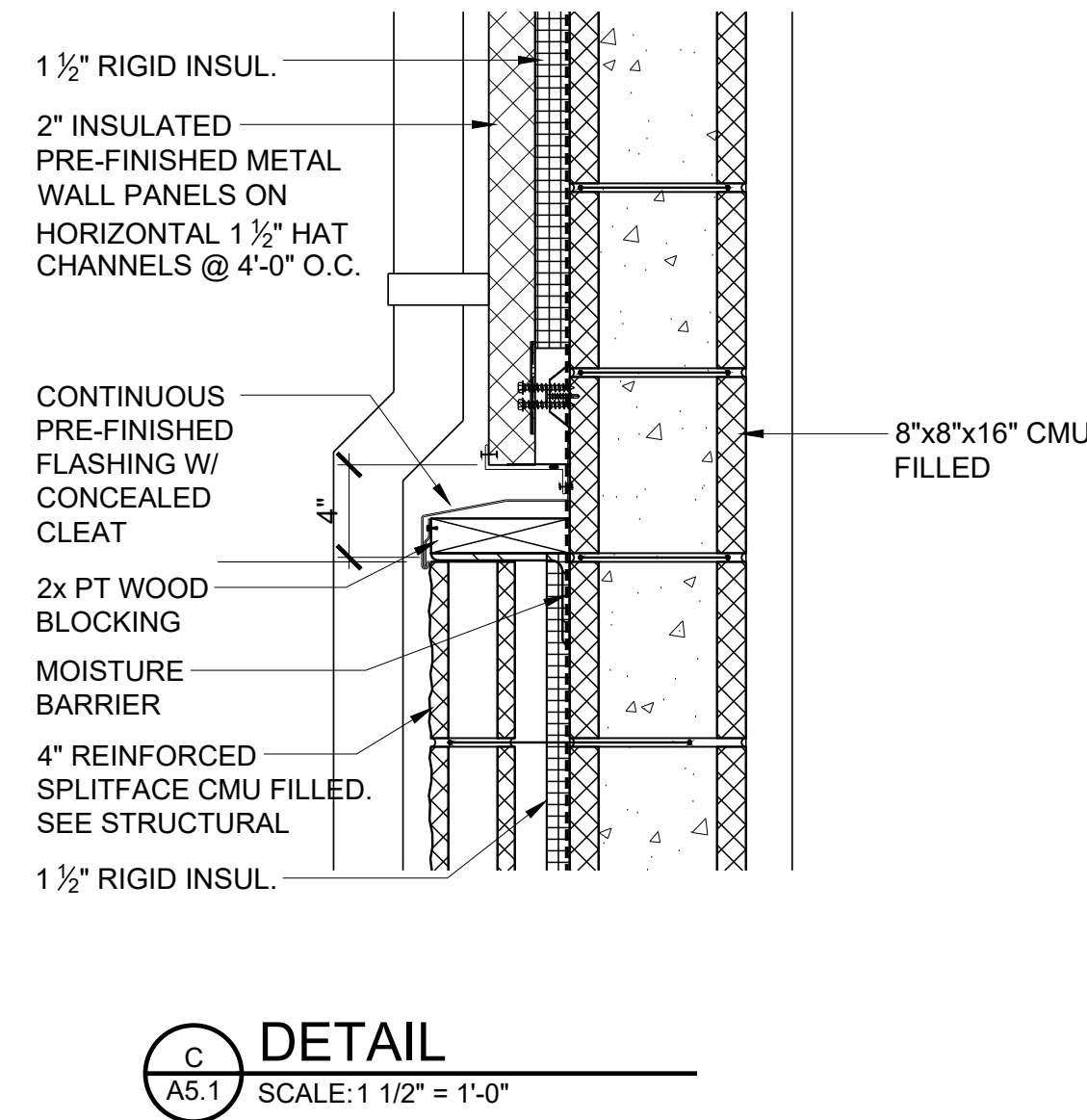
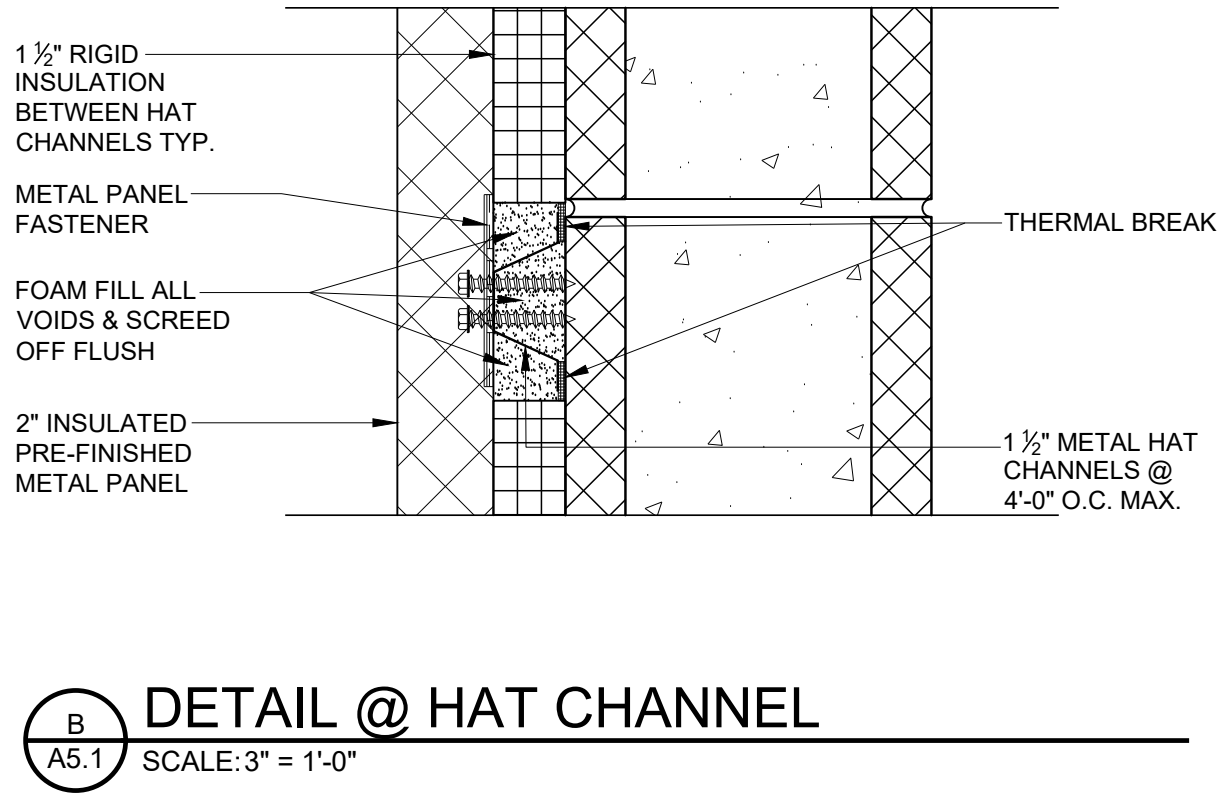
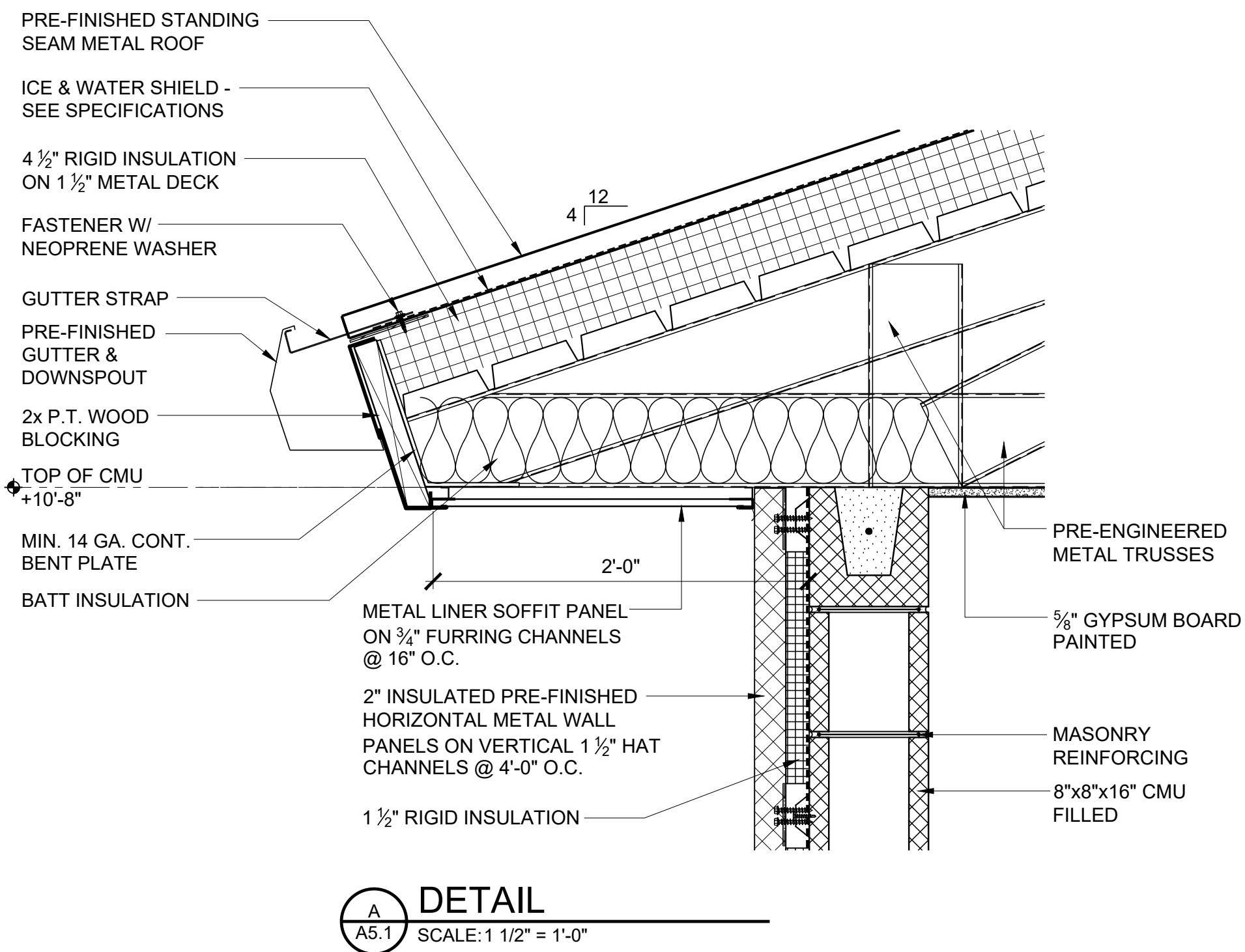
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**BUILDING
SECTIONS**

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A4.1

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**CONSTRUCTION
DOCUMENTS**

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Date: 20 JULY 2022
Revisions:

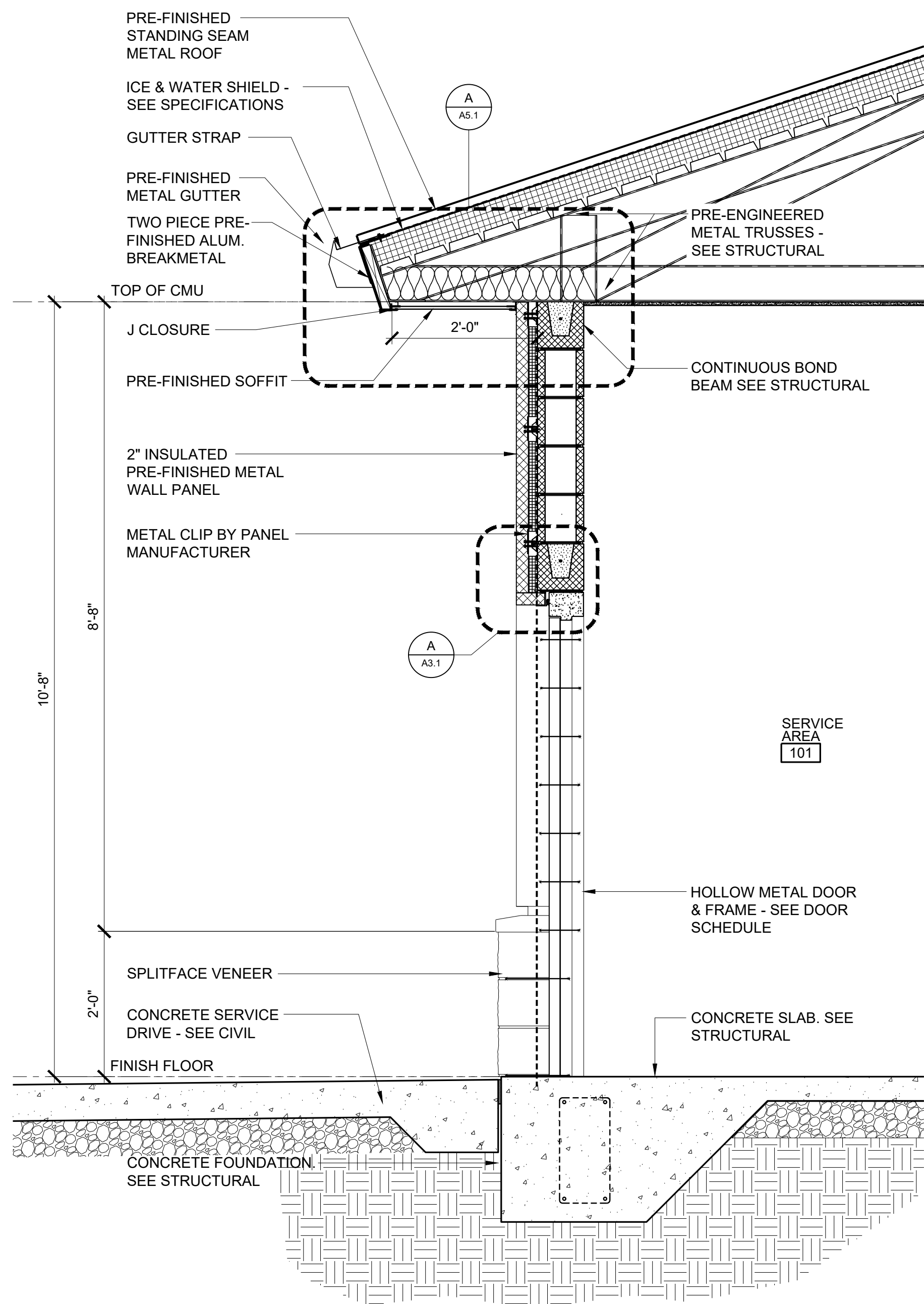
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**WALL SECTIONS
& DETAILS**

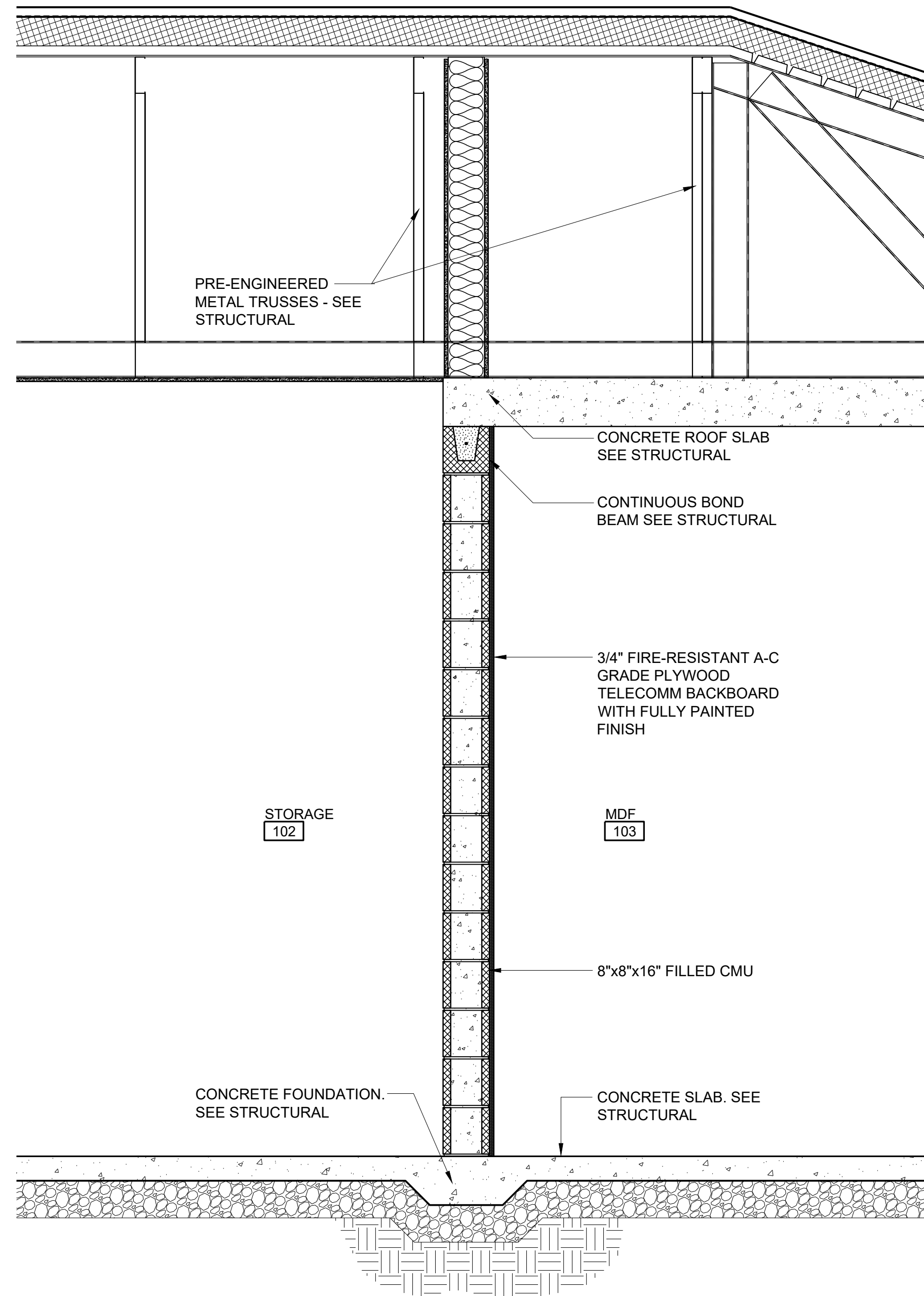
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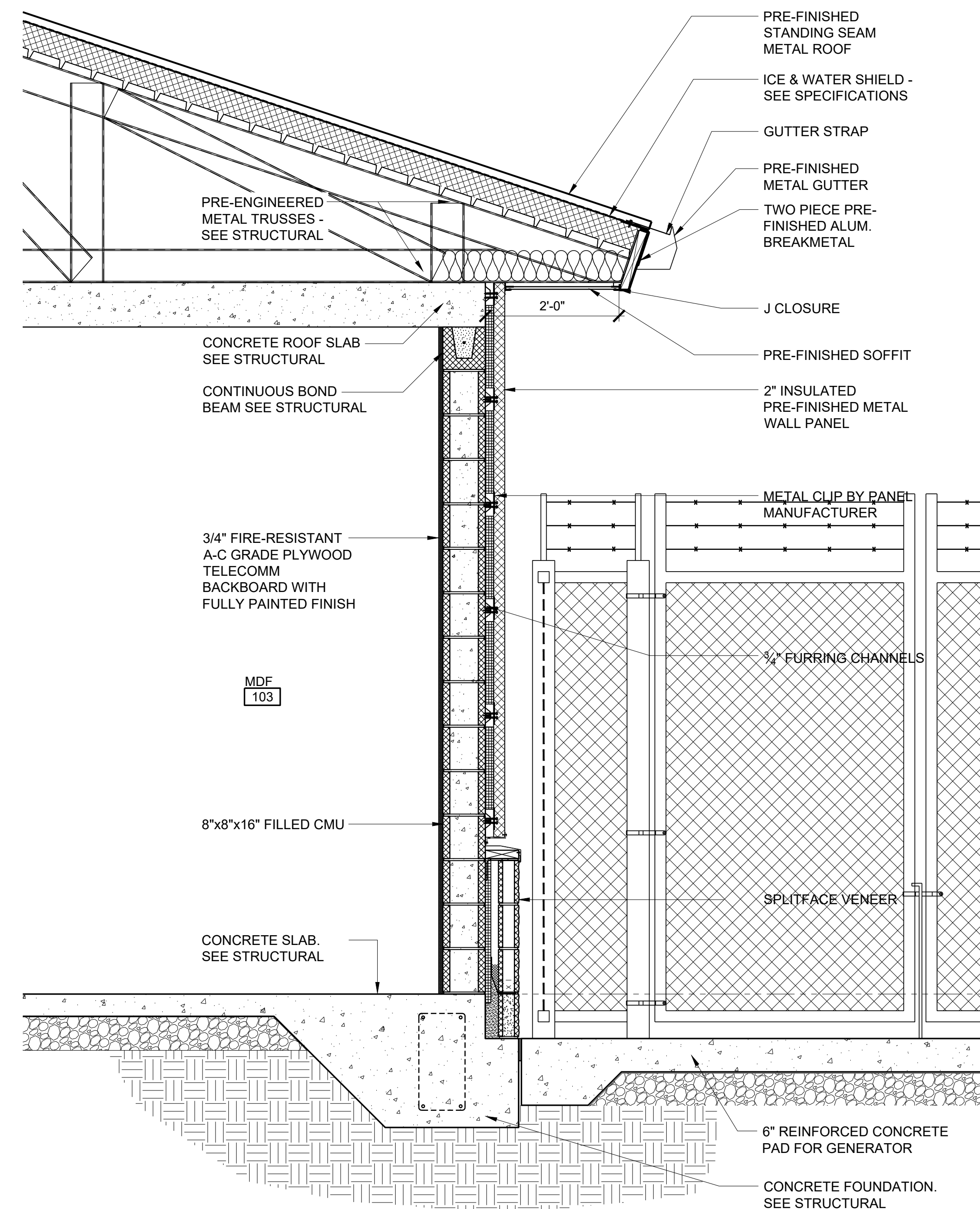
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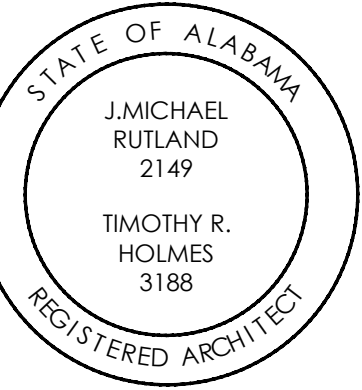
1 WALL SECTION
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2 WALL SECTION
SCALE: 3/4"=1'-0"



3 WALL SECTION
SCALE: 3/4"=1'-0"



**PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION**
Pelham Range, Alabama
IFB# AC-22-B-0029-S

**CONSTRUCTION
DOCUMENTS**

Project Number: 21-1078
Date: 20 JULY 2022
Revisions:

Sheet Description

WALL SECTIONS

Sheet Number

A5.2

GENERAL NOTES

| | | | | | | | |
|---------|--|----------------|---|-------------------------------|---|--|--|
| GENERAL | | GN.5 | SUBMITTALS: | CN.8 | REINFORCING MARKED "CONTINUOUS" SHALL BE SPICED WITH CLASS "B" TENSION LAP SPICE, UNLESS NOTED. | | |
| GN.1 | THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES' DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND ARCHITECT. | A. | REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL. | CN.9 | CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED: | MA.11 | WHEN REINFORCING BARS ARE SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS ACCORDING TO TYPICAL DETAILS. REINFORCING BARS TO BE CENTERED IN WALL, UNLESS NOTED. |
| GN.2 | DESIGN CRITERIA: | | | CN.10 | PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING. | MA.12 | CONDUIT, PIPING, AND SLEEVES OF ANY MATERIAL TO BE EMBEDDED IN MASONRY SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: |
| | A. CODES AND SPECIFICATIONS: | | | CN.11 | SLABS ON GRADE: 4" THICK, REINFORCE WITH ASTM C 1116, TYPE III SYNTHETIC MACRO-FIBERS AT A DOSAGE RATE OF 3.5 POUNDS PER CUBIC YARD. WHERE NOT INDICATED ON PLAN, CONTROL JOINTS FOR SLABS ON GRADE SHALL BE AT COLUMN LINES, IN A RECTANGULAR PATTERN, AND SPACED NOT MORE THAN THREE (3) TIMES THE SLAB THICKNESS (IN FEET) OR 15 FEET ON CENTER, WHICHEVER IS LESS. ASPECT RATIO OF UNJOINTED SLABS SHALL BE AS CLOSE TO 1:1 AS POSSIBLE, REDUCE MAXIMUM SPACING, AS REQUIRED. COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ETC. | A. | CONDUIT, PIPING, AND SLEEVES OF ALUMINUM SHALL NOT BE EMBEDDED IN MASONRY. |
| | 1. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, _____ EDITION WITH _____ AMENDMENTS. | B. | ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN .PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN .PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED. | | | B. | CONDUIT, PIPING, AND SLEEVES SHALL NOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER. |
| | 2. DESIGN LOAD CRITERIA: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7. | C. | RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES. | SD. STEEL DECK | | C. | REINFORCING SHALL NOT BE CUT, BENT, OR DISPLACED FOR PLACEMENT OF CONDUIT, PIPING, AND SLEEVES. |
| | 3. CONCRETE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318. | D. | SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER'S RECORD ONLY. | SD.1 | DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE. | D. | CONDUIT, PIPING, AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. MINIMUM SPACING OF DIFFERENT DIAMETERS SHALL BE DETERMINED USING THE LARGER DIAMETER. |
| | 4. STEEL DECK: STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION. | | 1. CONCRETE MIX DESIGNS 2. CONCRETE REINFORCING 3. SHOP FABRICATED COLD-FORMED STEEL ROOF TRUSSES (*) 4. MASONRY REINFORCING | SD.2 | DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. | MA.13 | TEMPORARY BRACING OF CMU WALLS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL PERMANENT RESTRAINT IS PROVIDED. |
| | 5. COLD-FORMED STEEL STRUCTURAL MEMBERS: NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE. | E. | DESIGN CALCULATIONS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER'S RECORD, DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR THE FOLLOWING ITEMS. | SD.3 | DO NOT SHORE DECK. | PA. POST INSTALLED ANCHORS | |
| | 6. MASONRY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, TMS 402/ACI 530/ASCE 5. SPECIFICATION FOR MASONRY STRUCTURES, TMS 602/ACI 530.1/ASCE 6. | 1. | SHOP FABRICATED COLD-FORMED STEEL ROOF TRUSSES | SD.4 | SIDELAP AND PERIMETER DECK EDGE FASTENERS ARE TO BE INSTALLED BETWEEN SUPPORTS. | PA.1 | POST INSTALLED ANCHORS SHALL COMPLY WITH ACI-318 CHAPTER 17. |
| | B. DESIGN LOADS (PSF): | GN.6 | ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED. | SD.5 | ROOF DECK: WIDE RIB TYPE "WR", STEEL ROOF DECK, 20 GAGE, 1-1/2" DEEP, GALVANIZED. SHEET STEEL FOR DECK SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI. | PA.2 | ACCEPTABLE MANUFACTURERS SHALL INCLUDE BUT ARE NOT LIMITED TO HILTI, INC. AND SIMPSON STRONG-TIE COMPANY, INC. AND DEWALT ANCHORS. |
| | 1. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE. | GN.7 | THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. | SD.6 | COLD-FORMED STEEL, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE METAL ROOF DECK. | PA.3 | CARE SHALL BE TAKEN IN PLACING POST INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. |
| | 2. LIVE LOADS: ROOF (REDUCIBLE)-----20 STORAGE (NON-REDUCIBLE) -----125 | GN.8 | CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT LOADS DO NOT EXCEED THE DESIGN LIVE LOAD. | SD.9 | PROVIDE 6" CLOSURE STRIP OF SAME GAGE AS DECK WHERE CHANGES IN DECK DIRECTION OCCUR. | PA.4 | HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR ALONG WITH PREPARED DOCUMENTATION DEMONSTRATING THAT THE PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. |
| | LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE WITH THE BUILDING CODE, UNLESS NOTED. | FD. FOUNDATION | | | | PA.5 | THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND RECOMMENDATIONS. |
| | 3. SNOW LOAD: GROUND SNOW LOAD (Pg)-----X.X | FD.1 | A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE BASIS OF DESIGN BEARING PRESSURE NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL. | CT. COLD-FORMED STEEL TRUSSES | | PA.9 | MASONRY ANCHORS: |
| | 4. WIND LOADS: ULTIMATE DESIGN WIND SPEED, VuIt-----XXX MPH (3 – SECOND GUST) NOMINAL DESIGN WIND SPEED, Vasd-----XXX MPH (3 – SECOND GUST) RISK CATEGORY-----XX WIND EXPOSURE CATEGORY-----X INTERNAL PRESSURE COEFFICIENT-----+0.XX | FD.2 | DESIGN BEARING PRESSURES (PSF): CONTINUOUS WALL FOOTINGS-----1500 | CT.1 | STRUCTURAL PROPERTIES OF TRUSS MEMBERS SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". | | 1. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY: |
| | WALL COMPONENT AND CLADDING WIND PRESSURE-SEE DRAWINGS | FD.3 | ALL FOUNDATION BEARING SURFACES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE COMPLIANCE WITH PRESSURES NOTED. THE FINAL BEARING ELEVATIONS MAY VARY AS REQUIRED TO PROVIDE PROPER BEARING CAPACITY IN AN APPROVED BEARING STRATUM AS DETERMINED BY THE GEOTECHNICAL ENGINEER. | CT.2 | THE COLD-FORMED STEEL TRUSS SYSTEM ENGINEER SHALL DESIGN THE COMPLETE TRUSS SYSTEM. THE TRUSS SYSTEM IS AN ASSEMBLAGE OF TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATIONAL CRITERIA, THAT, IN COMBINATION, FUNCTION TO SUPPORT THE LOADS APPLICABLE TO THE STRUCTURE. | A. | MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106, RESPECTIVELY. |
| | 5. SEISMIC LOADS: SEISMIC IMPORTANCE FACTOR (Ie)-----X.X | FD.4 | FOOTINGS SHALL BE PLACED THE SAME DAY AS INSPECTION BY THE GEOTECHNICAL ENGINEER UNLESS EXTENDED TIME IS APPROVED BY THE GEOTECHNICAL ENGINEER. | CT.3 | COLD-FORMED STEEL TRUSS ERECTION PLANS AND CALCULATIONS SHALL BE SUBMITTED FOR THE FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. | B. | ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58 OR AC60. |
| | MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss-----X.XXX S1-----X.XXX SITE CLASS-----X SITE COEFFICIENTS: Fa-----X.XXX Fv-----X.XXX DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: Sds-----X.XXX Sd1-----X.XXX SEISMIC DESIGN CATEGORY-----X BASIC SEISMIC-FORCE-RESISTING SYSTEM: | FD.5 | FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE FILLED WITH CONCRETE TO THE TOP OF FOOTING. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH LEAN CONCRETE OR COMPACTED DENSE GRADED CRUSHED STONE AS DIRECTED BY THE GEOTECHNICAL ENGINEER. | CT.4 | TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS: TOP CHORD DEAD LOAD -----10 PSF BOTTOM CHORD DEAD LOAD -----10 PSF TOP CHORD LIVE LOAD -----20 PSF | 2. ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY: | |
| | SEISMIC RESPONSE COEFFICIENT (Cs)-----X RESPONSE MODIFICATION FACTOR(R)-----X OVER-STRENGTH FACTOR (oo)-----X DEFLECTION AMPLIFICATION FACTOR (Cd)-----X | FD.6 | COMPACTED FILL SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT. EXCAVATED MATERIAL MAY BE USED AS BACKFILL MATERIAL WITH WRITTEN APPROVAL FROM THE GEOTECHNICAL ENGINEER STATING THAT SUCH MATERIAL IS SUITABLE AS BACKFILL AND INSTRUCTIONS ARE GIVEN FOR PROPER MOISTURE CONTENT AND COMPACTION. | CT.5 | DEFLECTION LIMITS: DESIGN TRUSS SYSTEM TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING: A. ROOF TRUSSES: VERTICAL DEFLECTION OF 1/360 FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN. | A. | SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. |
| | ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD | FD.7 | PROVIDE 4" OF COMPACTED GRANULAR FILL BENEATH ALL SLABS ON GRADE. PROVIDE 10 MIL VAPOR RETARDER BETWEEN BOTTOM OF SLAB AND TOP OF GRANULAR FILL. | CT.6 | DESIGN ROOF TRUSSES TO RESIST THE WIND UPLIFT LOADING IN ACCORDANCE WITH THE BUILDING CODE. | B. | ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. |
| | REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SEISMIC SUPPORT AND ATTACHMENT REQUIREMENTS FOR UTILITIES. | FD.14 | FOUNDATIONS SHALL BE CENTERED ABOUT COLUMN LINES, UNLESS NOTED. | CT.7 | IN ADDITION TO THE ABOVE LOADS, COLD-FORMED STEEL TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE CONTRACTOR. | QC. CONCRETE QUALITY CONTROL TESTING DURING CONSTRUCTION | |
| GN.3 | CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION. | FD.15 | UNDERPINNING OF EXISTING ADJACENT FOUNDATIONS MAY BE REQUIRED. ALL ENGINEERING DESIGNS AND MEANS AND METHODS OF CONSTRUCTION RELATED TO UNDERPINNING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. | CT.8 | ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR COLD-FORMED STEEL TRUSSES SYSTEM SHALL BE DETAILED ON THE TRUSS MANUFACTURER'S ERECTION PLANS. | QC.1 | ALL CONCRETE SHALL USE AIR-ENTRAINING ADMIXTURE AT THE MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING TOTAL AIR CONTENT AS NOTED ABOVE. |
| GN.4 | SPECIAL INSPECTIONS/STRUCTURAL ENGINEER'S SITE VISITS: | CN. CONCRETE | | CT.9 | TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER. | QC.2 | CONCRETE AGGREGATES SHALL CONFORM TO SPECIFICATION FOR CONCRETE AGGREGATES, ASTM C33. |
| | A. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE. REFER TO DRAWINGS. | CN.1 | CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS. | CT.10 | TRUSS SYSTEM CONNECTIONS TO THE STRUCTURE AND DIAPHRAGM SHEAR TRANSFER TO THE STRUCTURE ARE THE DESIGN RESPONSIBILITY OF THE TRUSS SYSTEM ENGINEER AND SHALL BE DETAILED ON THE TRUSS MANUFACTURER'S ERECTION PLANS. | QC.3 | WATER: ASTM C94/C94M; WATER FOR CONCRETE SHALL BE CLEAN, FRESH AND POTABLE. |
| | B. SITE VISITS BY STRUCTURAL ENGINEER: | CN.2 | MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM W/C (WATER/CEMENTITIOUS MATERIALS RATIO), TOTAL AIR CONTENT, SLUMP AND CONCRETE USE: | MA. MASONRY | | QC.4 | CEMENT: |
| | 1. STRUCTURAL ENGINEER'S SITE VISITS ARE FOR VISUAL OBSERVATION OF THE IN-PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION. | | STRENGTH TYPE W/C AIR SLUMP USE 3000 NORMAL WT. 0.57 4-6% 3" to 5" UNLESS NOTED, *** ***DO NOT USE AIR ENTRAINING ADMIXTURES IN INTERIOR CONCRETE SLABS TO RECEIVE A HARD TROWEL FINISH. | MA.1 | MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 SPECIFICATIONS. | A. | CEMENT SHALL CONFORM TO THE SPECIFICATION FOR PORTLAND CEMENT, ASTM C150, TYPE I (NORMAL). |
| | 2. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT, PER THE SCHEDULE STATED BELOW, WHEN SUCH ITEMS HAVE PROGRESSED TO THE POINT WHERE THEY WILL BE IN PLACE AND READY FOR REVIEW. FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED CONSTRUCTION. | CN.3 | REINFORCING BARS: ASTM A615 GRADE 60. | MA.2 | CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT (DENSITY = 105 PCF), CONFORMING TO ASTM C90, UNLESS NOTED. | B. | BRAND OF CEMENT: UNLESS ACCEPTED BY THE STRUCTURAL ENGINEER, USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT. |
| | NOTIFY PRIOR TO THE FOLLOWING SCHEDULED TASKS | CN.4 | REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED. | MA.3 | COMPRESSIVE STRENGTH OF MASONRY (F'm): 2000 PSI AT 28 DAYS. | C. | PUMPED CONCRETE: CONCRETE DESIGNED TO BE PUMPED SHALL BE SO NOTED ON THE MIX DESIGNS AND SHALL HAVE MIX PROPORTIONS COMPATIBLE WITH THE PUMPING PROCESS. |
| | | CN.5 | REINFORCING BAR PLACING ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. | MA.4 | GROUT SHALL CONFORM TO ASTM C476 WITH COMPRESSIVE STRENGTH (F'g) OF 2500 PSI AT 28 DAYS. GROUT SHALL BE PLACED ACCORDING TO TMS 602/ACI 530.1/ASCE 6 SECTION 3.5. | QC.6 | ADMIXTURES: USE ONLY ADMIXTURES APPROVED BY THE STRUCTURAL ENGINEER AND CONTAINING NO CHLORIDE IONS. |
| | | CN.6 | DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI SP-066. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE STRUCTURAL ENGINEER. | MA.5 | MORTAR SHALL CONFORM TO ASTM C270, TYPE S OR M FOR TYPICAL CONDITIONS, TYPE M FOR BASEMENT AND RETAINING WALLS. | QC.7 | THE CONTRACTOR WILL EMPLOY A TESTING AGENCY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS. SAMPLING AND TESTING REQUIREMENTS FOR QUALITY CONTROL DURING PLACEMENT OF CONCRETE ARE AS FOLLOWS: |
| | C. SITE VISITS BY THE STRUCTURAL ENGINEER'S OFFICE DO NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR. | CN.7 | SPLICES SHALL BE CLASS "B" TENSION LAP SPICE, UNLESS NOTED. | MA.6 | ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED. | A. | SAMPLING FRESH CONCRETE: ASTM C172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94. |
| | | | | MA.7 | ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT. | 1. | SLUMP: ASTM C143, ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS. |
| | | | | MA.8 | SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS AND OPENINGS. | 2. | AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS. |
| | | | | MA.9 | REINFORCING BARS: ASTM A615 GRADE 60. LAP REINFORCING BARS ACCORDING TO TYPICAL DETAILS. | 3. | CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F (4.4 DEGREES C) AND BELOW, AND WHEN 80 DEGREES F (27 DEGREES C) AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE. ASTM C1064/C1064M |
| | | | | MA.10 | HORIZONTAL JOINT REINFORCING: LADDER TYPE, 9 GAGE SPACED VERTICALLY AT 16", UNLESS NOTED. PLACE REINFORCING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. LAP REINFORCING A MINIMUM OF 6". | | |

LBVD, Inc.

1300 South College Street

Suite 201

Auburn, AL 36832

Phone (334) 734-0403

Project No. 432023.001

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JMR+H

Architecture, P.C.

445 Dexter Avenue
Suite 5050
P.O. Box 1706
Montgomery, AL 36104

Phone: (334) 420-5672
Fax: (334) 420-5692

PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION

Pelham Range, Alabama
IFB# AC-22-B-0029-S

CONSTRUCTION
DOCUMENTS

Project Number: 21-1078
Date: 20 JULY 2022
Revisions:

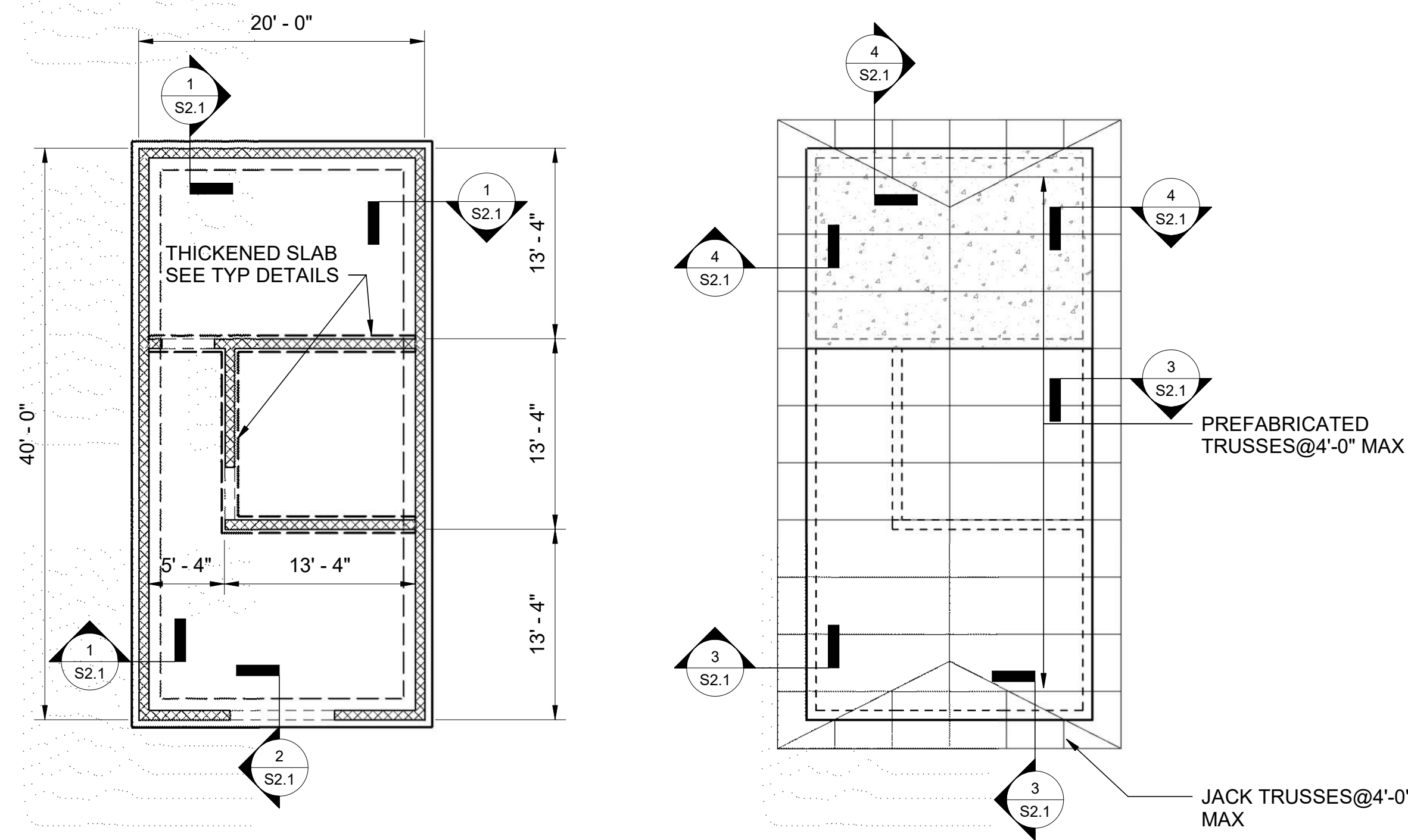
Sheet Description

General Notes

Sheet Number

S1.1

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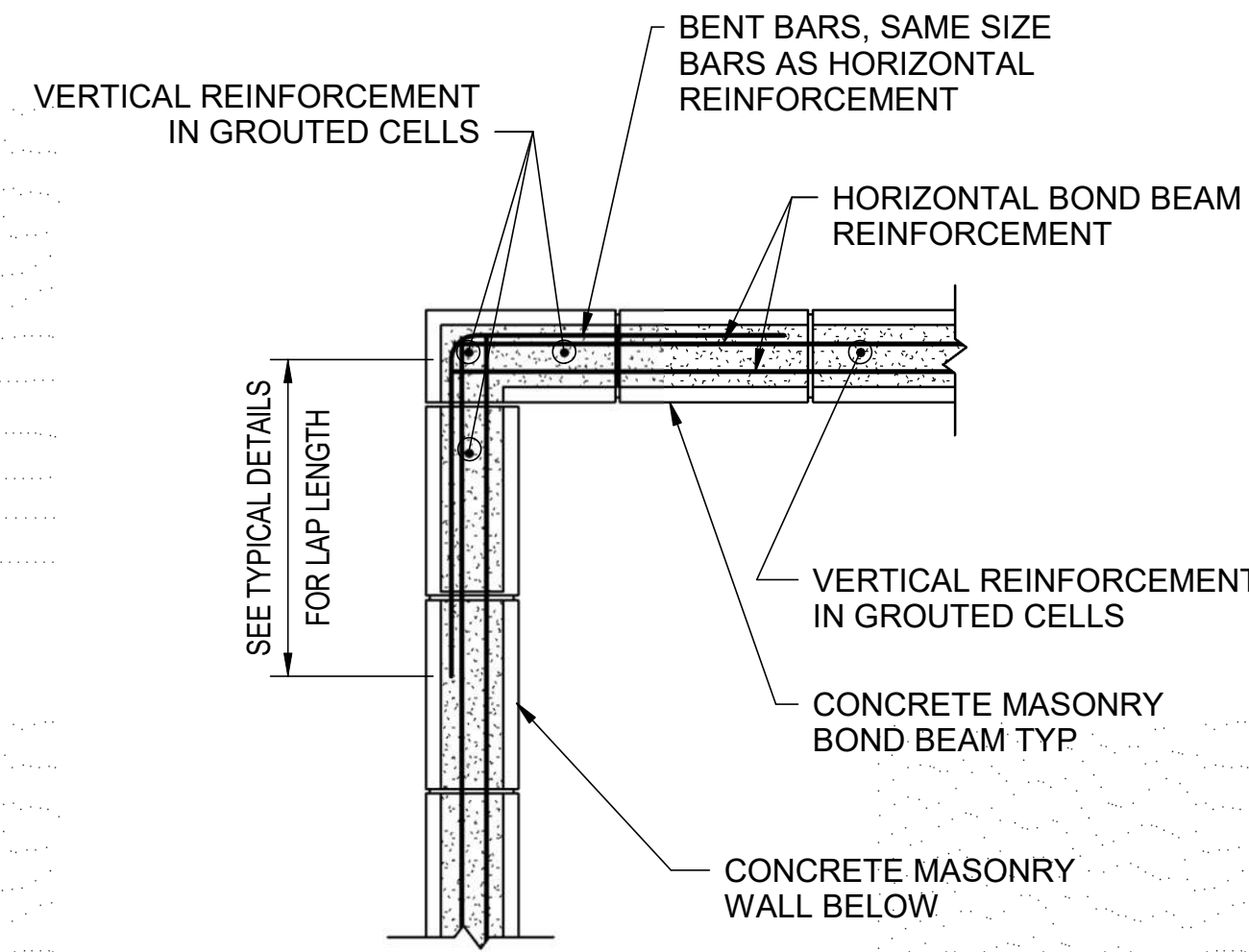
Foundation Plan

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
3. FOR SLAB RECESS AND RAMP LOCATION, SEE ARCHITECTURAL DRAWINGS.
4. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.

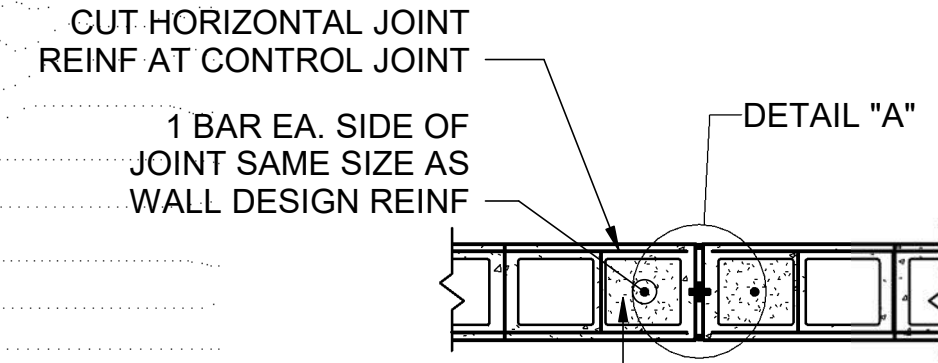


Roof Plan

1. ROOF TRUSS BEARING ELEVATION: 10'-8".
2. TRUSS-TO-TRUSS CONNECTIONS SHALL BE PER THE TRUSS DESIGNER/MANUFACTURER.
3. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. PIPE HANGER DETAILS MUST BE APPROVED BY TRUSS ENGINEER.
4. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.
5. TRUSS LAYOUT SHOWN IS FOR SCHEMATIC PURPOSES ONLY. ACTUAL TRUSS LAYOUT IS TO BE DETERMINED BY TRUSS ENGINEER. GIRDER TRUSSES MUST NOT BE LOCATED ABOVE WINDOWS OR DOORS.

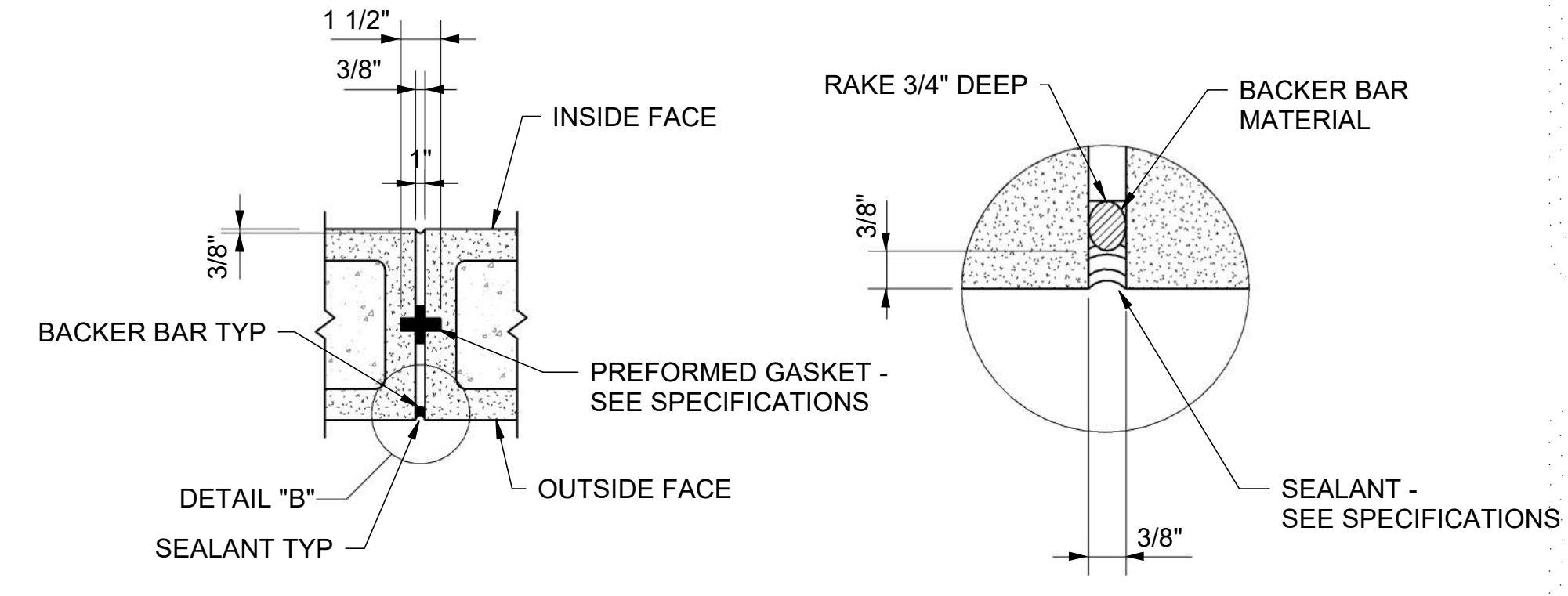


Plan Showing Bond Beam Reinforcement at Wall Corner



GROUT REINF CELLS SOLID ENTIRE HEIGHT OF WALL

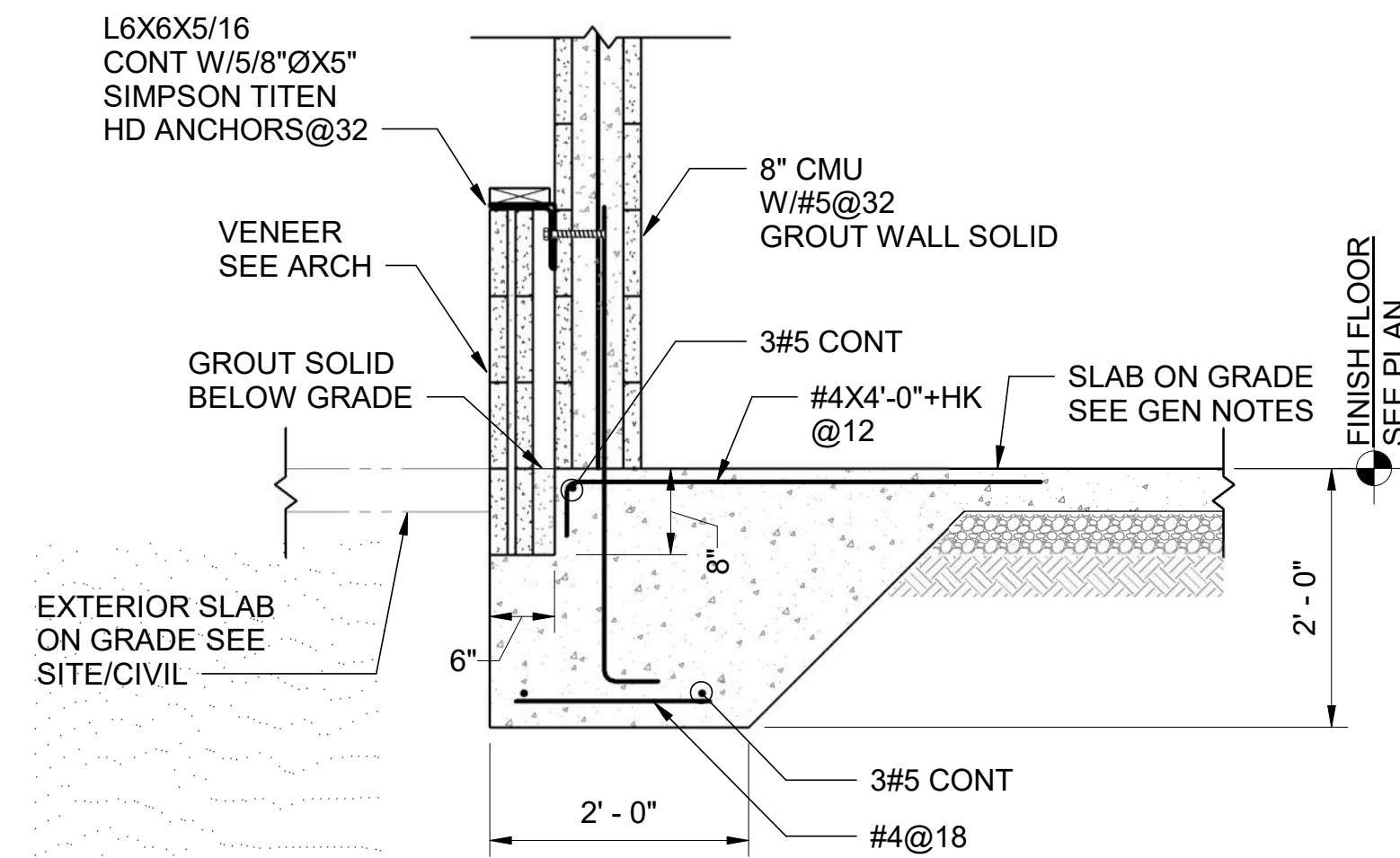
NOTE: SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS. CONTROL JOINT SPACING NOT TO EXCEED 25'-0" OR 1.5 TIMES THE WALL HEIGHT, WHICHEVER IS LESS.



Detail "A"

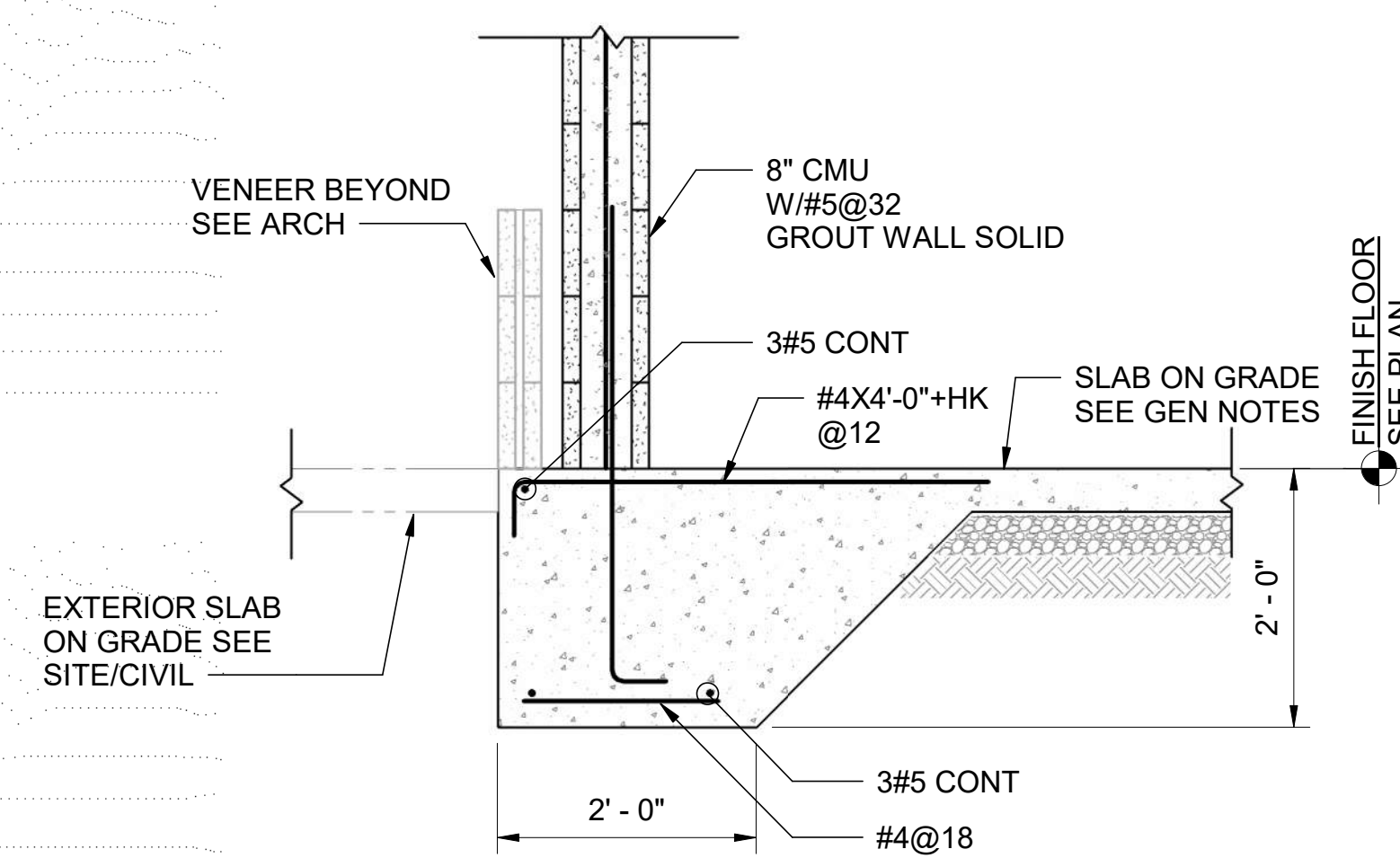
Detail "B"

Masonry Control Joint



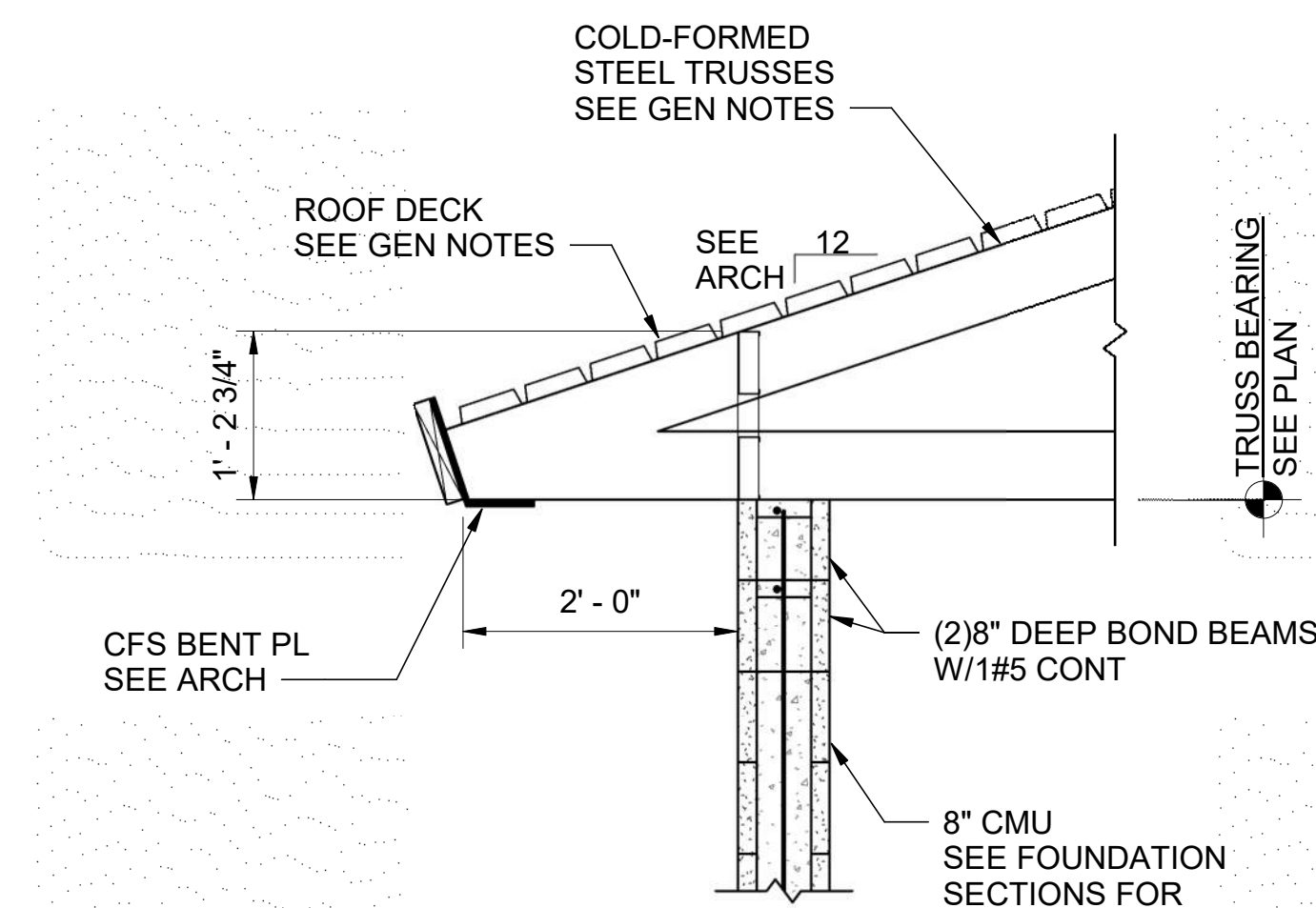
1 Section

S2.1 3/4" = 1'-0"



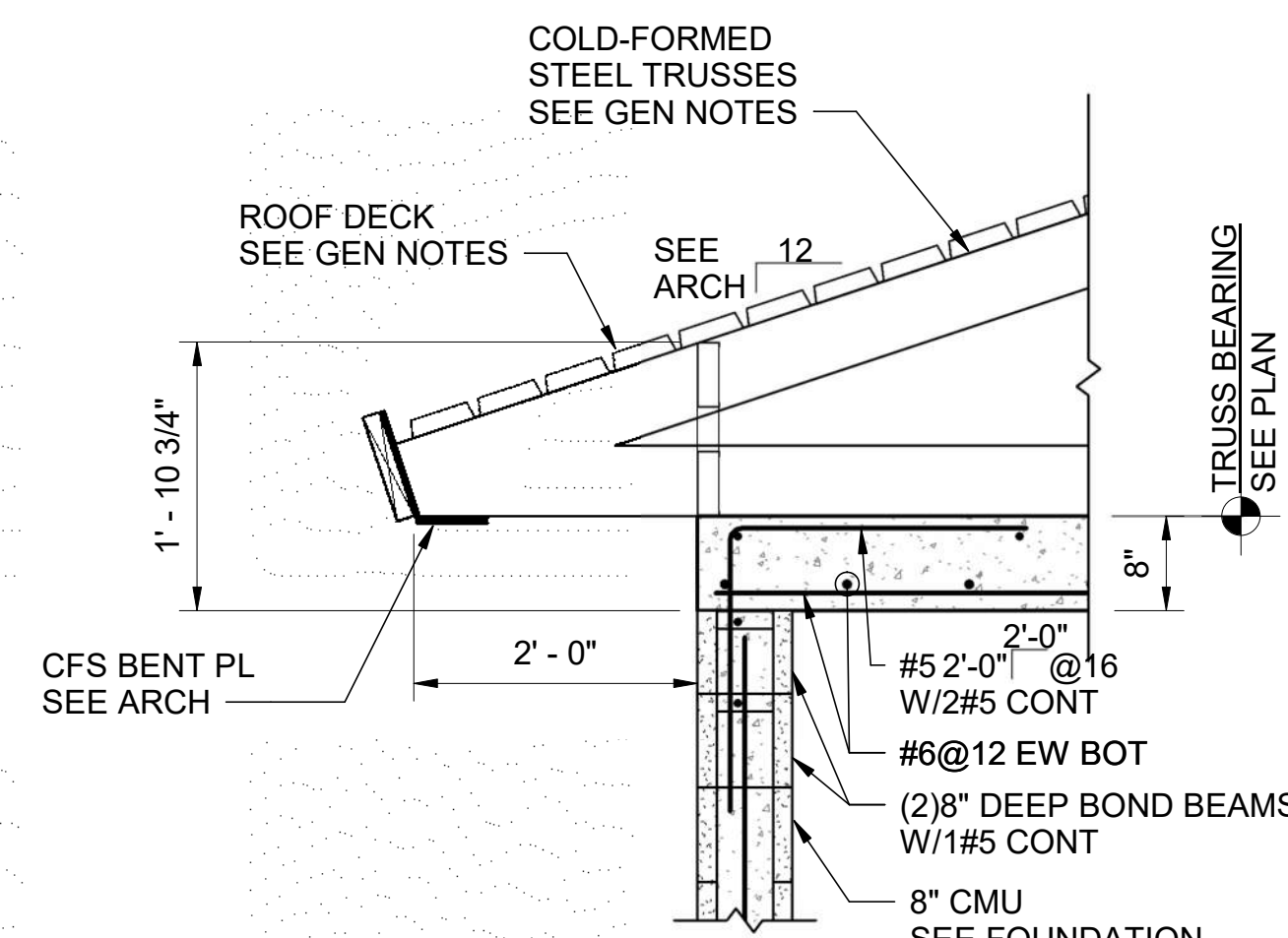
2 Section

S2.1 3/4" = 1'-0"



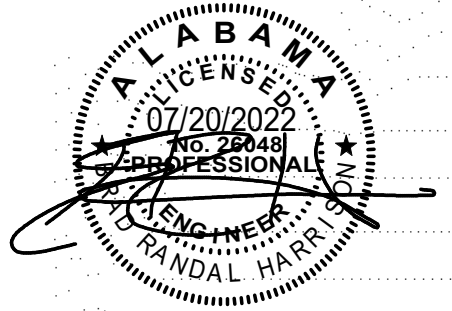
3 Section

S2.1 3/4" = 1'-0"



4 Section

S2.1 3/4" = 1'-0"



PELHAM RANGE TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION

Pelham Range, Alabama
 IFB# AC-22-B-0029-S

CONSTRUCTION DOCUMENTS

Project Number: 21-1078

Date: 20 JULY 2022

Revisions:

Sheet Description

Plans, Typical
 Details, and
 Sections

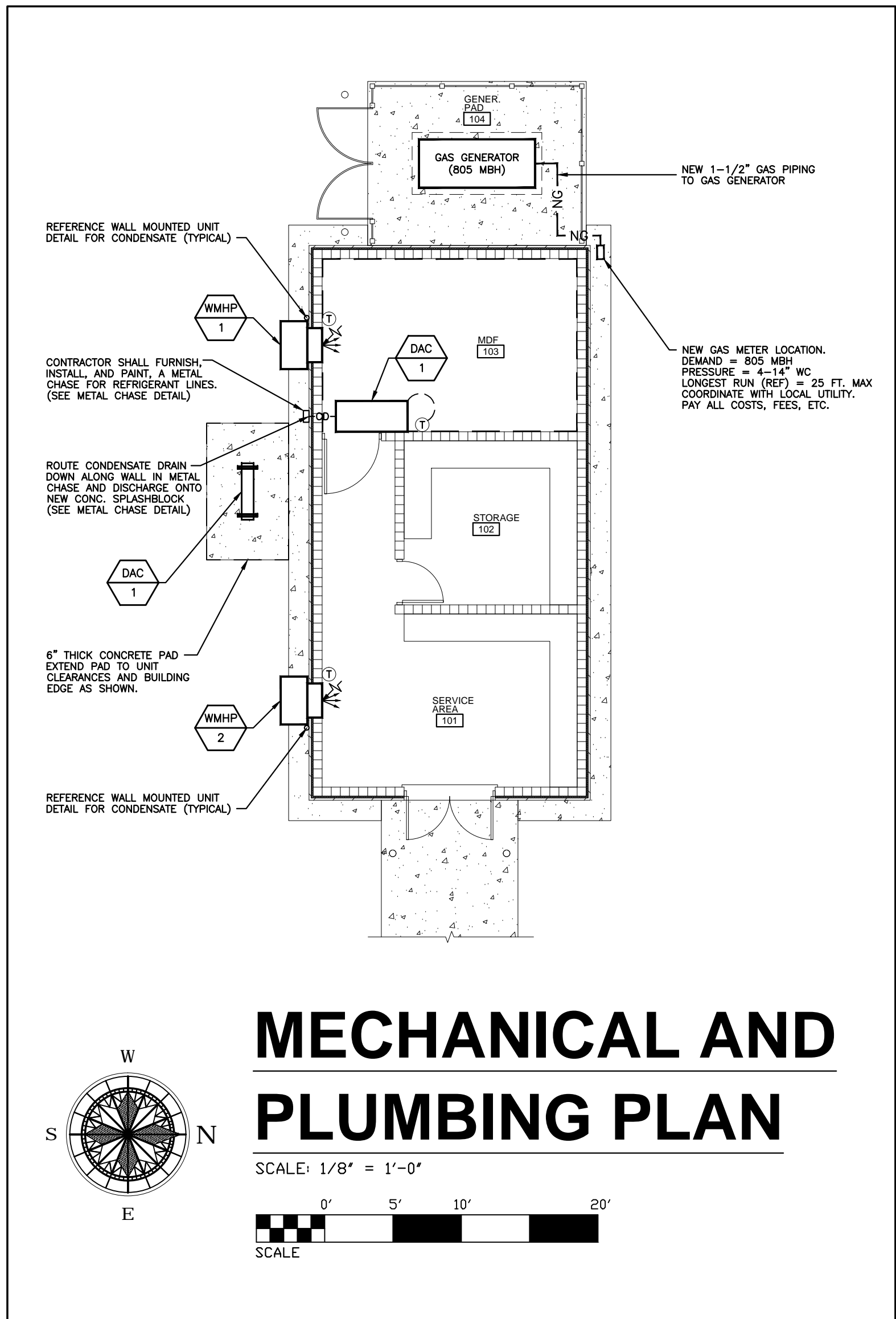
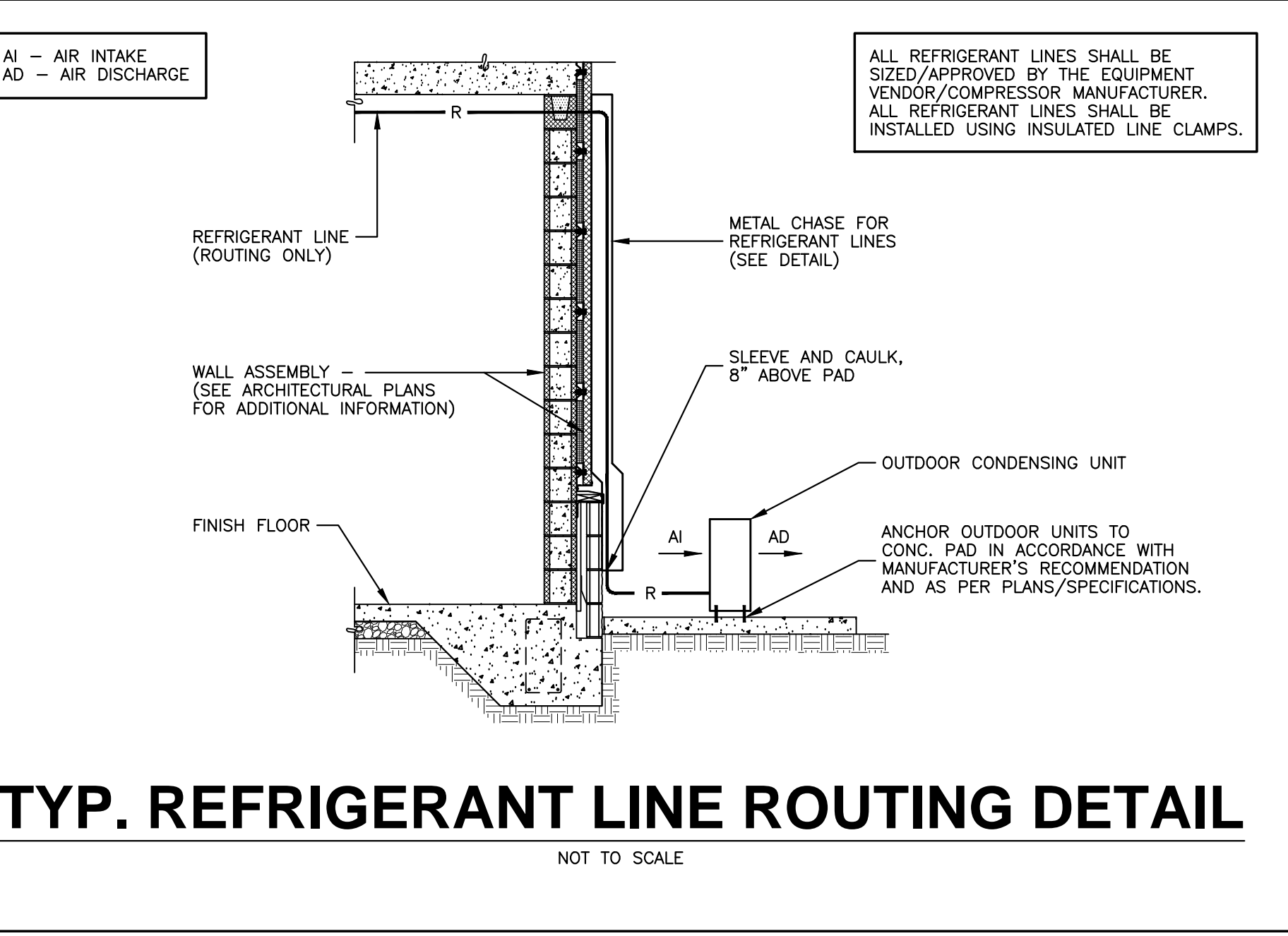
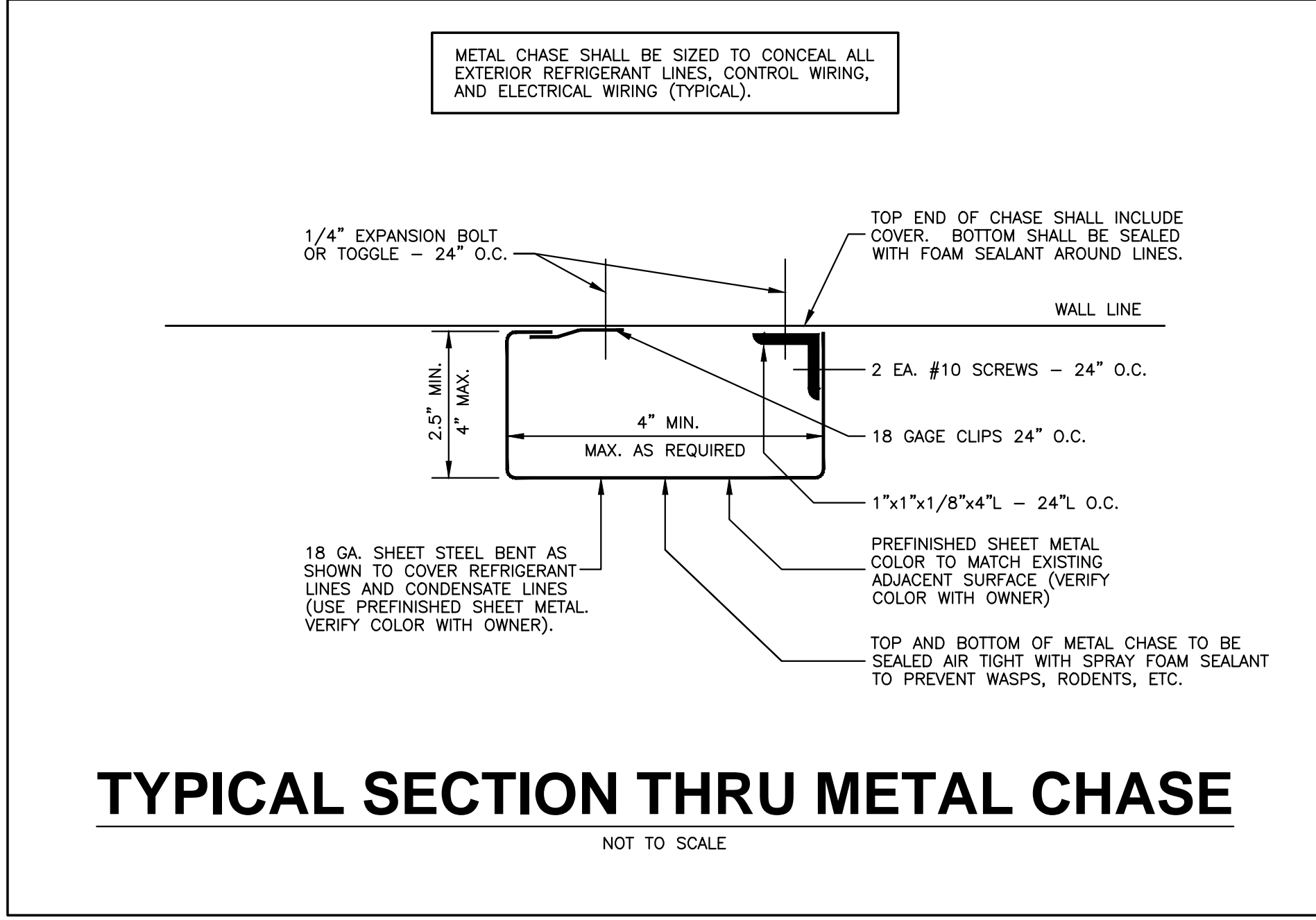
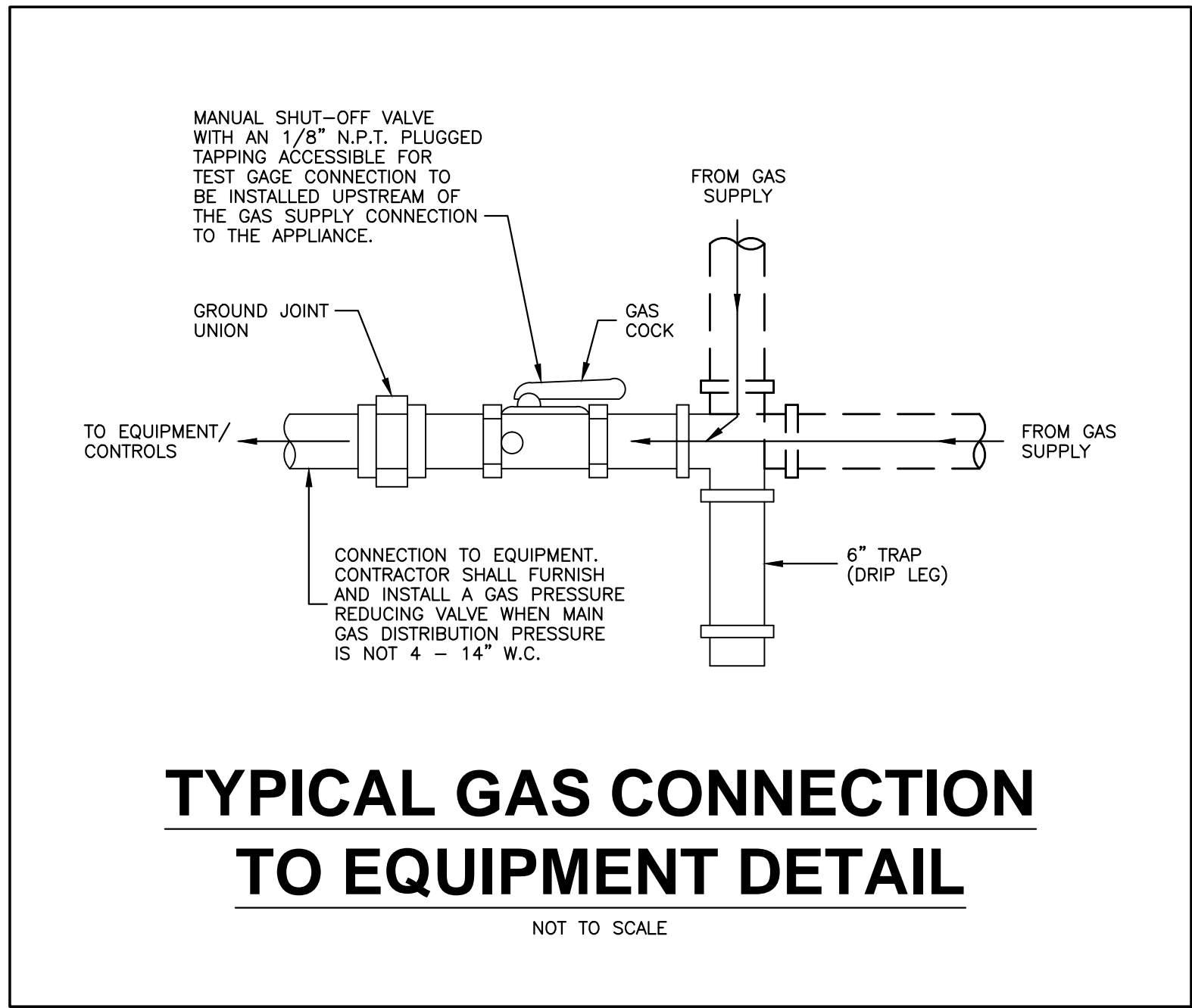
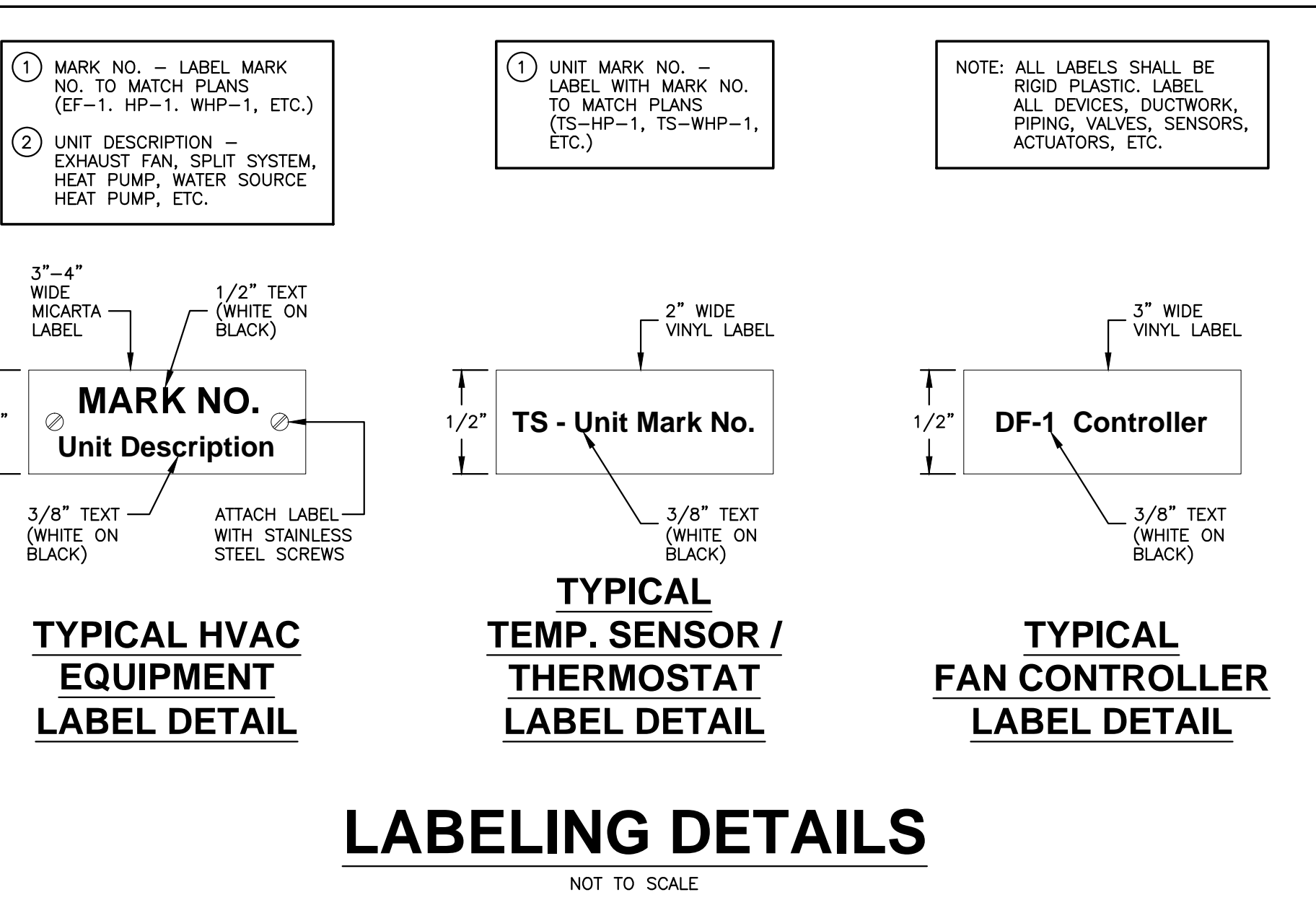
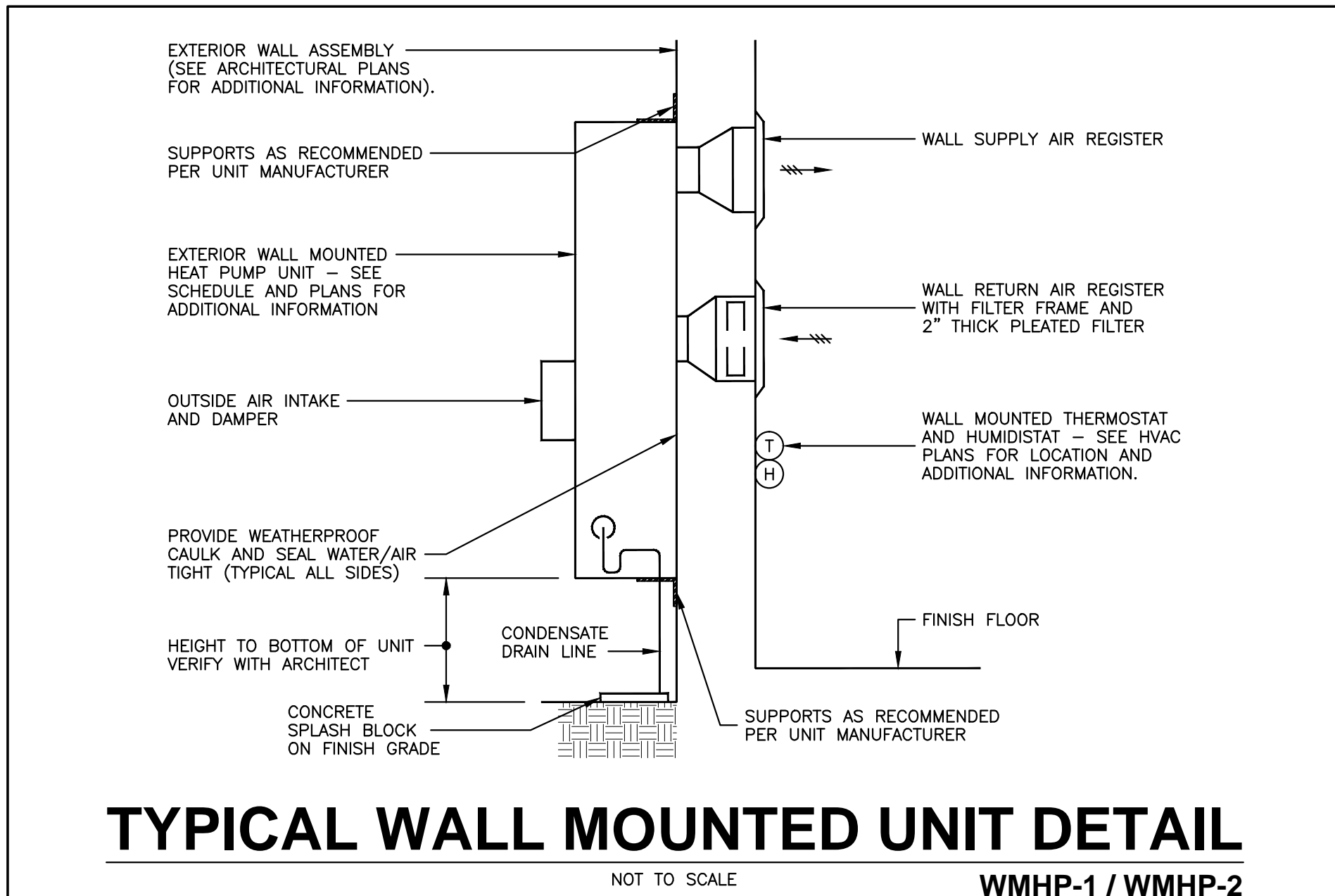
Sheet Number

S2.1

| WALL MOUNTED HEAT PUMP EQUIPMENT SCHEDULE | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|---------|-----------------------|--------------------|------------------|------------------------|------------------|-------------------------|--------------------------|----------------|----------------------------------|-----------------|--------------|-------------------|------------------|-----------------|--------------------------|----------------------|--------------------------------|-------|-------------------------|
| MARK NO. | NOMINAL FAN CFM | OSA CFM | COOLING CAPACITY | | | | HEATING CAPACITY | | | MODEL NO. DATA | | ELECTRICAL DATA | | | | | | | | NOTES | |
| | | | SENSIBLE CAPACITY MBH | TOTAL CAPACITY MBH | CONDENSER E.A.T. | EVAPORATOR E.W.B. TEMP | MIN. EER | LOW TEMP 15° E.A.T. MBH | HIGH TEMP 45° E.A.T. MBH | COP | MANUFACTURER (OR APPROVED EQUAL) | UNIT MODEL NO. | VOLTAGE | COMPRESSOR R.L.A. | OUTDOOR FAN H.P. | INDOOR FAN H.P. | ELECTRIC STRIP HEAT K.W. | MINIMUM CIRCUIT AMPS | MAXIMUM OVERCURRENT PROTECTION | | SINGLE POINT CONNECTION |
| <div>WMHP-1</div> | 1,550 | — | 36.1 | 47.5 | 95 | 80/67 | 11.0 | 24.3 | 40.1 | 3.3 | BARD | W48HCD | 208/230—1—60 | 18.6/16.0 | 1/3 | 3/4 | 0 | 35 | 50 | YES | SEE BELOW |
| <div>WMHP-2</div> | 800 | 35 | 17.9 | 23.4 | 95 | 80/67 | 11.3 | 13.1 | 21.7 | 3.3 | BARD | W24HBD | 208/230—1—60 | 9.0/8.0 | 1/5 | 1/3 | 4 | 40 | 45 | YES | SEE BELOW |
| TOTAL | | 35 | | 70.9 | | | | | | | | | | | | | | | | | |
| <div><div><div>1</div><div>UNIT TO INCLUDE A UNIT MOUNTED 7-DAY PROGRAMMABLE ELECTRONIC SETBACK AUTOMATIC CHANGEOVER THERMOSTAT/HUMIDISTAT WITH SUB-BASE.</div></div><div><div>2</div><div>UNIT TO BE EXTERIOR MOUNTED. REFRIGERANT R-410A.</div></div><div><div>3</div><div>UNIT TO INCLUDE HOT GAS REHEAT TO PROVIDE DEHUMIDIFICATION.</div></div><div><div>4</div><div>UNIT TO INCLUDE BAROMETRIC RELIEF DAMPER.</div></div><div><div>5</div><div>VERIFY COLOR AND FINISH OF LOUVERS, CABINET, ETC. WITH OWNER.</div></div><div><div>6</div><div>UNIT TO INCLUDE FACTORY OUTDOOR THERMOSTAT AND LOW AMBIENT CONTROLS TO 0° F.</div></div><div><div>7</div><div>UNIT TO INCLUDE REAR CONDENSATE DRAIN KIT.</div></div><div><div>8</div><div>UNIT TO INCLUDE FACTORY MERV-13 FILTER.</div></div><div><div>9</div><div>UNIT TO INCLUDE MOTORIZED FRESH AIR INLET DAMPERS (WMHP-2).</div></div><div><div>10</div><div>ALL UNITS SHALL BE ASHRAE 90.1-2013 COMPLIANT.</div></div></div> | | | | | | | | | | | | | | | | | | | | | |
| APPROVED EQUALS: MARVAIR | | | | | | | | | | | | | | | | | | | | | |

| LEGEND | |
|--------|--|
| SYMBOL | DESCRIPTION |
| | SIDEWALL DIFFUSER - SUPPLY WITH MULTI-VANE DEFLECTOR |
| | SIDEWALL DIFFUSER - RETURN WITH 30° FIXED DEFLECTION |
| | THERMOSTAT/HUMIDISTAT LOCATION |
| | HVAC CONDENSATE DRAIN PIPING |
| | HVAC REFRIGERANT LINE |
| | NATURAL GAS PIPING |

| HVAC NOTES | |
|------------|---|
| 1 | ALL DIMENSIONS SHOWN ARE NET INTERNAL. |
| 2 | THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY FOLLOWED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS. |
| 3 | COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER. |
| 4 | REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL. |
| 5 | COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE. |
| 6 | THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE REQUIRED. |
| 7 | THE HVAC CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL RATED WALLS, CEILINGS, FLOORS, ETC. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL FIRE OR FIRE/SMOKE DAMPERS IN ALL RATED LOCATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT. |
| 8 | CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING. |
| 9 | CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. |
| 10 | ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED EQUAL WITH FLOAT SWITCH. |
| 11 | REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. IF CONDENSATE DRAINS ARE NOT SHOWN ON THE PLUMBING PLANS, ALL CONDENSATE DRAINS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. |
| 12 | VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH OWNER. |
| 13 | ALL THERMOSTATS TO BE MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL UNLESS OTHERWISE INDICATED. |
| 14 | ALL REFRIGERANT LINES SHALL BE SIZED/APPROVED BY THE EQUIPMENT VENDOR/COMPRESSOR MANUFACTURER. ALL REFRIGERANT LINES SHALL BE INSTALLED USING INSULATED LINE CLAMPS. |
| 15 | PAINT ALL EXTERIOR EXPOSED ARMAFLEX INSULATION FOR UV PROTECTION. |
| 16 | WARRANTIES SHALL BEGIN AT FINAL ACCEPTANCE. ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT. ADDITIONALLY CONTRACTOR IS RESPONSIBLE FOR ALL PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE ON INSTALLED EQUIPMENT FOR THE ONE YEAR WARRANTY PERIOD IN ORDER TO MAINTAIN ALL FACTORY/MANUFACTURER WARRANTIES. |
| 17 | CONTRACTOR SHALL ANCHOR OUTDOOR UNITS TO CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, WIND LOAD REQUIREMENTS, AND AS PER PLANS/SPECIFICATIONS. COORDINATE CONCRETE PAD SIZE, UNIT CLEARANCES, ETC. WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC. |
| 18 | THE CONTRACTOR SHALL INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING. |
| 19 | ALL INDOOR AND OUTDOOR UNITS SHALL BE LOCATED SO THAT MAINTENANCE CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS PER PLANS/SPECIFICATIONS ARE MAINTAINED. COORDINATE MAINTENANCE CLEARANCES WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC. |
| 20 | ALL COLOR/FINISH SELECTIONS SHALL BE MADE BY OWNER. |



| DUCTLESS AIR CONDITIONING EQUIPMENT SCHEDULE (CEILING SUSPENDED) | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|------------------|----------------|--------------|-------------------|-----------|--------------|------------------|------------|---------------|---------|--------------------|-------------------|-------------|------------------|---------|-----------|---------------------------------|----------------|-------|-------------------|
| MARK NO. | NOMINAL FAN CFM | COOLING CAPACITY | | | | | MANUFACTURER | INDOOR UNIT DATA | | | | | OUTDOOR UNIT DATA | | | | | APPROXIMATE REFRIG. PIPING SIZE | | NOTES | |
| | | TOTAL CAP. MBH | SENS. CAP. MBH | COND. E.A.T. | EVAP. E.W.B. TEMP | MIN. SEER | | VOLTAGE | MODEL NO. | FAN MOTOR FLA | MCA (A) | UNIT WEIGHT (LBS.) | VOLTAGE | MODEL NO. | COMP. R.L.A. (A) | MCA (A) | MOCAP (A) | UNIT WEIGHT (LBS.) | GAS (IN. O.D.) | | LIQUID (IN. O.D.) |
| DAC-1 | 1,025 | 42.0 | 29.0 | 95 | 80/67 | 17.6 | MITSUBISHI | 208/230-1-60 | PCA-A42KA7 | 0.97 | 2.0 | 86 | 208/230-1-60 | PUY-A42NKA7 | 8 | 25 | 31 | 211 | 5/8 | 3/8 | SEE BELOW |
| <div><div><div>1</div><div>UNIT TO INCLUDE A WALL MOUNTED 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTAT WITH SUB-BASE AND LOCKING COVER. THERMOSTAT SHALL BE FACTORY MA REMOTE CONTROLLER MODEL PAR-40MAU.</div></div><div><div>2</div><div>INDOOR UNIT TO BE CEILING SUSPENDED WITH INTERNAL FACTORY CONDENSATE PUMP.</div></div><div><div>3</div><div>INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.</div></div><div><div>4</div><div>REFRIGERANT R-410A.</div></div><div><div>5</div><div>UNIT TO INCLUDE CONDENSER HAIL GUARD AND LOW AMBIENT CONTROLS TO 0°F.</div></div><div><div>6</div><div>VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER.</div></div><div><div>7</div><div>UNIT SHALL BE ASHRAE 90.1-2013 COMPLIANT.</div></div><div><div>8</div><div>ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. COORDINATE WITH EQUIPMENT MANUFACTURER.</div></div><div><div>9</div><div>CONTRACTOR'S VENDOR SHALL PROVIDE REFRIGERANT LINE FINAL SIZES, LENGTHS, ETC. PER MANUFACTURER'S RECOMMENDATION. SUBMITTAL DRAWINGS SHALL INCLUDE CONTROLS, LINE SIZES, ETC. CONTRACTOR SHALL COORDINATE SIZES SHOWN ON PLANS WITH ACTUAL EQUIPMENT QUOTED PRIOR TO BIDDING.</div></div><div><div>10</div><div>FURNISH AND INSTALL FACTORY PRE-INSULATED REFRIGERANT LINE SETS.</div></div><div><div>11</div><div>EACH LINE SET SHALL INCLUDE FACTORY BALL VALVES FOR UNIT ISOLATION.</div></div><div><div>12</div><div>REFRIGERANT PIPING SHALL BE LABELED TO MATCH ASSOCIATED INDOOR AND OUTDOOR UNIT.</div></div><div><div>13</div><div>ALL EXPOSED INTERIOR REFRIGERANT PIPING SHALL BE ROUTED IN SCHEDULE 40 PVC, PRIME AND PAINT TO MATCH ADJACENT SURFACES. VERIFY PAINT COLOR WITH OWNER.</div></div><div><div>14</div><div>USE INSULATED REFRIGERANT PIPING CLAMPS WHERE REFRIGERANT PIPING IS INSULATED.</div></div></div> | | | | | | | | | | | | | | | | | | | | | |

| GAS PIPING NOTES | |
|---|--|
| GAS PIPING SCOPE OF WORK TO INCLUDE INSTALLATION OF NEW GAS SERVICE WITH METER, REGULATOR, ETC. AND INSTALLATION OF NEW NATURAL GAS PIPING TO GAS GENERATOR. INSTALLATION SHALL ALSO INCLUDE PIPE, SUPPORTS, VALVES, DIRT LEGS, REGULATORS, ETC. AS APPLICABLE FOR FULL AND FUNCTIONAL SYSTEM. PROVIDE FINAL CONNECTIONS TO GAS GENERATOR IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS (SEE PLAN FOR ADDITIONAL INFORMATION). | |
| <div><div>2015 INTERNATIONAL PLUMBING CODE</div><div>2015 INTERNATIONAL MECHANICAL CODE</div><div>2015 INTERNATIONAL FUEL GAS CODE</div><div>ASHRAE 90.1-2013 ENERGY STANDARD</div></div> | |

| MECHANICAL / PLUMBING DRAWING INDEX | |
|-------------------------------------|---|
| SHEET NO. | SHEET TITLE |
| MP1.1 | MECHANICAL/PLUMBING LEGEND, NOTES, SCHEDULES, DETAILS, AND PLAN |

JMR+H
Architecture, P.C.
445 Dexter Avenue
Suite 5050
Montgomery, AL 36104
Phone: (334) 420-5672
Fax: (334) 420-5692

J. MICHAEL RUTLAND
2149
TIMOTHY R. HOLMES
3188
REGISTERED ARCHITECT

PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION
Pelham Range, Alabama
IFB# AC-22-B-0029-S

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LEGEND, NOTES,
SCHEDULES,
DETAILS, & PLAN

Sheet Number
MP1.1

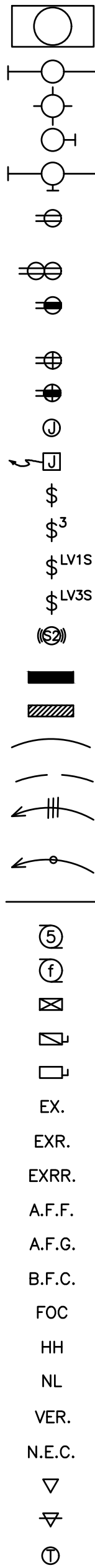
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MECHANICAL / PLUMBING LEGEND, NOTES, SCHEDULES, DETAILS, AND PLAN

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL
Randall Whorton
RANDALL WHORTON, P.E.
PHONE: (256) 820-9897
DATE: 07-20-2022
25 SUMMERDALE GATE ROAD
ANNISTON, ALABAMA 36805

STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
No. 14192
RANDALL WHORTON
D. WHORTON

ELECTRICAL SYMBOLS



CEILING OUTLET – RECESSED LED FIXTURE. HATCHING INDICATES LIGHT FIXTURE THAT IS AN UNSWITCHED NIGHTLIGHT.

CEILING OUTLET – SURFACE OR PENDANT LED FIXTURE.

CEILING OUTLET – SURFACE LED FIXTURE.

WALL OUTLET – LED BRACKET TYPE.

WALL OUTLET – LED BRACKET TYPE.

WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, HUBBELL #5362 – GREY.
("WP" DENOTES WEATHERPROOF)

WALL OUTLET – DOUBLE DUPLEX OUTLET, 20A, 125V, GROUNDED HUBBELL #5362 – GREY.

WALL OUTLET – GFCI DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, HUBBELL #GF-5362-GY – GREY WITH #5-26 PLATE. ("WP" DENOTES WEATHERPROOF)

WALL OUTLET – DUPLEX OUTLET, MOUNTED 6" ABOVE COUNTER.

WALL OUTLET – GFCI DUPLEX OUTLET, MOUNTED 6" ABOVE COUNTER.

CEILING OUTLET – JUNCTION BOX.

WALL OUTLET – JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.

SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 – GREY. ("N" DENOTES NARROW)

SWITCH OUTLET – AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 – GREY.

SWITCH OUTLET – LOW VOLTAGE SWITCH FOR "MANUAL ON" ONLY. SENSOR SWITCH SP0DM-SA OR EQUAL.

SWITCH OUTLET – THREE WAY LOW VOLTAGE SWITCH FOR "MANUAL ON" ONLY. SENSOR SWITCH SP0DM-SA-3X OR EQUAL.

CEILING/WALL SENSOR – DUAL TECHNOLOGY CEILING SENSOR. SENSOR SWITCH CM PDT SERIES WITH POWER PACK OR EQUAL.

LIGHTING PANEL – SEE SPECIFICATIONS AND SCHEDULE.

POWER PANELS – SEE SPECIFICATIONS AND SCHEDULE.

BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.

BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.

HOMERUN TO PANELBOARD – ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) – 1/2" CONDUIT.
3 # 12 & 1 # 12(G) – 3/4" CONDUIT. 4 # 12 & 1 # 12(G) – 3/4" CONDUIT.

EMPTY CONDUIT – 3/4".

BRANCH CIRCUIT EXPOSED.

MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).

EXHAUST FAN MOTOR – FRACTIONAL HORSEPOWER.

MAGNETIC MOTOR STARTER.

NON-FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).

FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).

EX. EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.

EXR. EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED, UNLESS OTHERWISE NOTED.

EXRR. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND NOT REPLACED.

A.F.F. ABOVE FINISHED FLOOR.

A.F.G. ABOVE FINISHED GRADE.

B.F.C. BELOW FINISHED CEILING.

FOC FIBER OPTIC CABLE

HH NEW TELECOMMUNICATIONS HAND HOLE. 24"W X 36"L X24"D QUAZITE IN-GRADE BOX.

NL UNSWITCHED NIGHT LIGHT

VER. VERIFY LOCATION.

N.E.C. NATIONAL ELECTRICAL CODE.

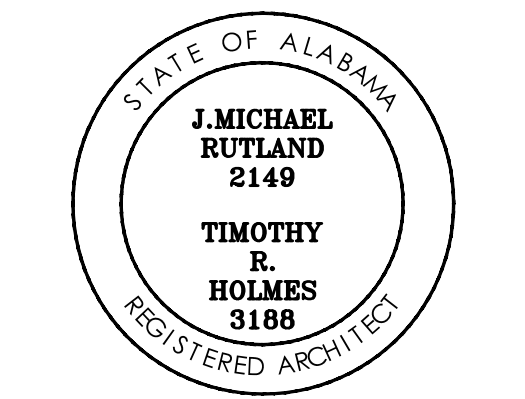
DATA OUTLET – 3/4" CONDUIT TO TBB WITH CABLES AS SHOWN.

DATA OUTLET – SAME AS ABOVE EXCEPT INSTALL 6" ABOVE COUNTER.

THERMOSTAT – WALL OUTLET 48" AFF OR AS DIRECTED BY MECHANICAL DRAWINGS. RUN EMPTY 3/4" CONDUIT TO UNIT.

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
- CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
- THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
- CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
- SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
- THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
- MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
WALL SWITCHES.....4'-0"
RECEPTACLES.....1'-6"
TELEPHONE OUTLET.....1'-6"
DATA OUTLET.....1'-6"
CANY OUTLET.....1'-6"
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACKSPLASHES ON CASEWORK SHOP DRAWINGS AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACKSPLASH OR IF NO BACKSPLASH IS USED, 4" ABOVE COUNTERTOP.
- ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
- VERIFY ALL DOOR SWINGS WITH THE ARCHITECT BEFORE ROUGHING IN LIGHT SWITCHES.
- CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED PRIOR TO ROUGH-IN.
- BRANCH CIRCUITS SHALL BE #12 AWG AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER. SEE SPECIFICATIONS FOR INSULATION TYPE.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
- VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- SUPPORT OF ALL LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE SPECIFICATIONS FOR SUPPORTING METHODS.
- COORDINATE SERVICES WITH POWER AND COMMUNICATION COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED CONDUCTORS. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. SIZE GROUND CONDUCTORS PER N.E.C..
- ALL UTILITY FEES ASSOCIATED WITH THIS PROJECT SHALL BE INCLUDED IN BID. IF THESE FEES CANNOT BE OBTAINED FROM THE UTILITY PRIOR TO BID, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL EQUIPMENT WITH ARC-FLASH WARNING LABELS PER NEC 110.16.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTION ABOUT OPERATION AND MAINTENANCE OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF ELECTRICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING AND ORDERING EQUIPMENT.
- WHERE NEW CIRCUITS ARE ADDED TO EXISTING PANELS, CONTRACTOR SHALL UPDATE THE EXISTING PANEL DIRECTORY WITH A NEW TYPED PANEL DIRECTORY.
- VERIFY EXACT LOCATION AND EXACT MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS WITH THE ARCHITECT AND THE OWNER PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL ENSURE THAT ALL TRENCHES ARE LEVELED ONCE PROJECT IS COMPLETE. THE CONTRACTOR SHALL SEED AND HAY ONCE PROJECT IS COMPLETE.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING OR BORING IN ORDER TO MINIMIZE DAMAGE TO EXISTING UNDERGROUND SYSTEMS.
- VERIFY EXACT LOCATION OF ALL BORING REQUIRED IN THE FIELD.
- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW LIU AT EACH EXISTING IT CABINET LOCATION IF REQUIRED TO TERMINATE THE FOC AT EACH BUILDING.
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT. INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCUIT.
- MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
- REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.



PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION

Pelham Range, Alabama
IFB# AC-22-B-0029-S

CONSTRUCTION
DOCUMENTS

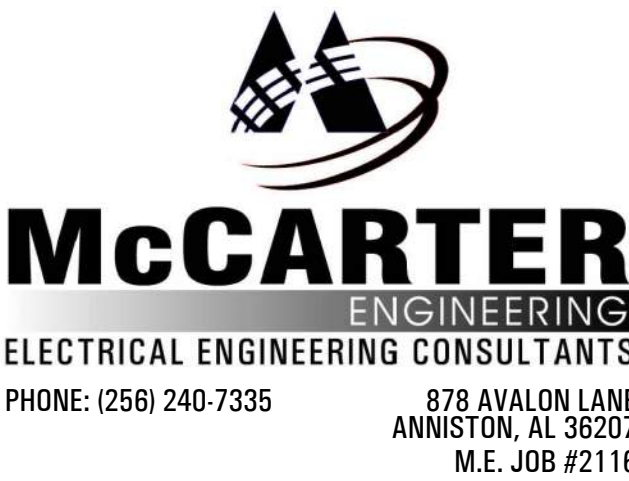
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Date: 20 JULY 2022
Revisions:

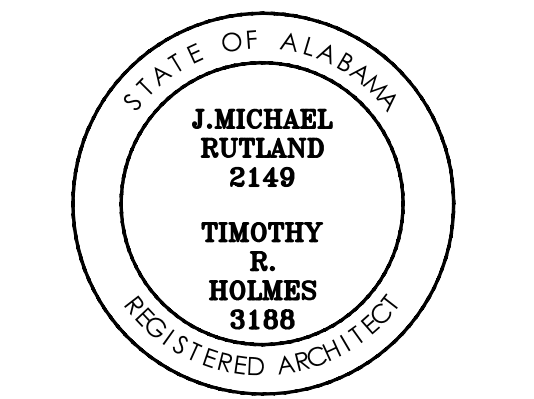
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SYMBOLS AND
NOTES

Sheet Number

E1.1





**PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION**
Pelham Range, Alabama
IFB# AC-22-B-0029-S

**CONSTRUCTION
DOCUMENTS**

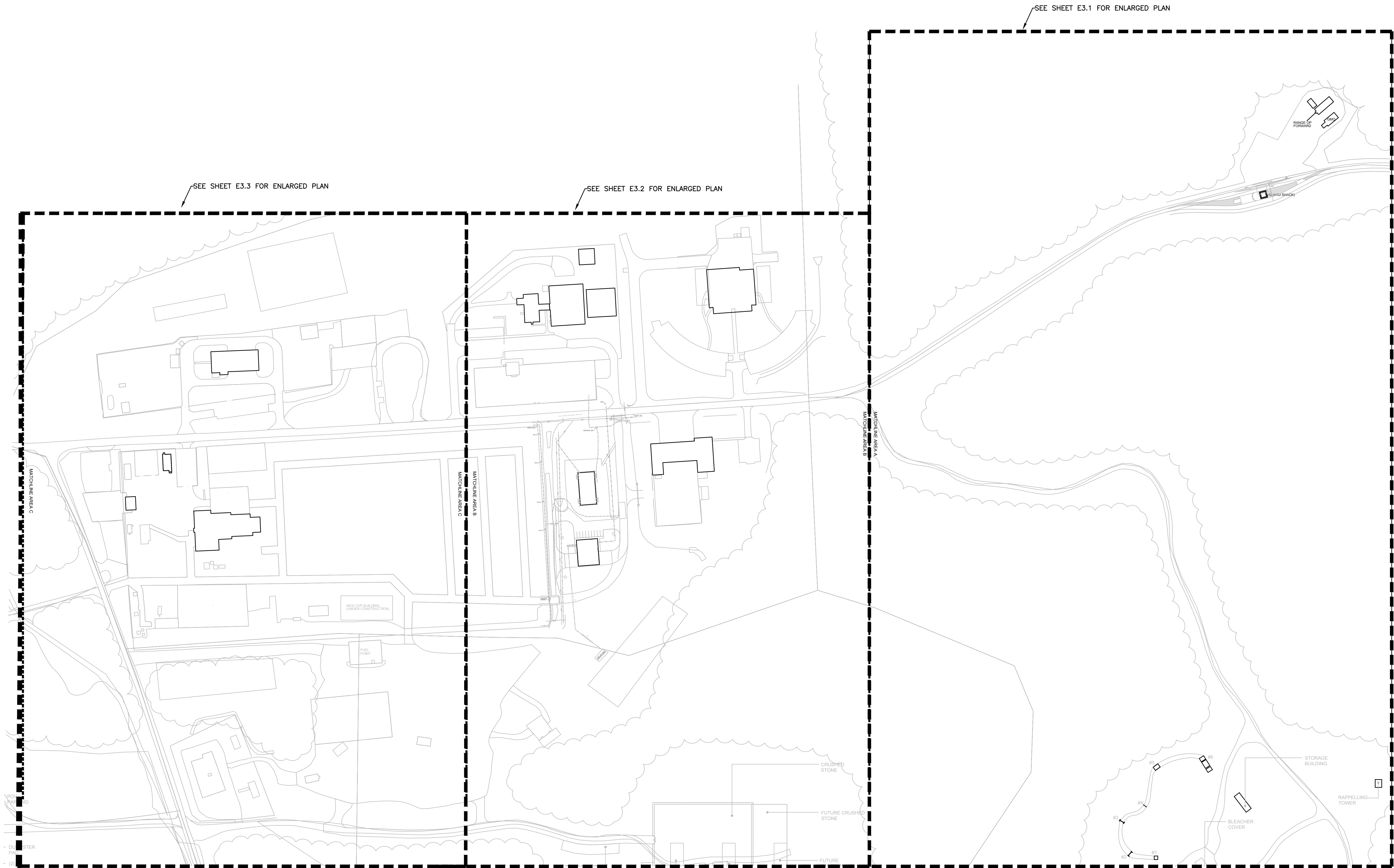
Project Number: 21-1078
Date: 20 JULY 2022
Revisions:

Sheet Description

OVERALL SITE PLAN

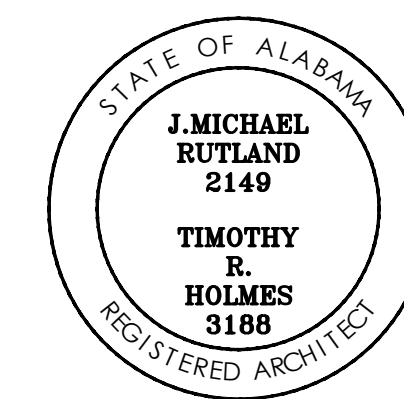
Sheet Number

E2.1



OVERALL SITE PLAN
SCALE: 1" = 150'-0"





PELHAM RANGE TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION

Pelham Range, Alabama
IFB# AC-22-B-0029-S

CONSTRUCTION
DOCUMENTS

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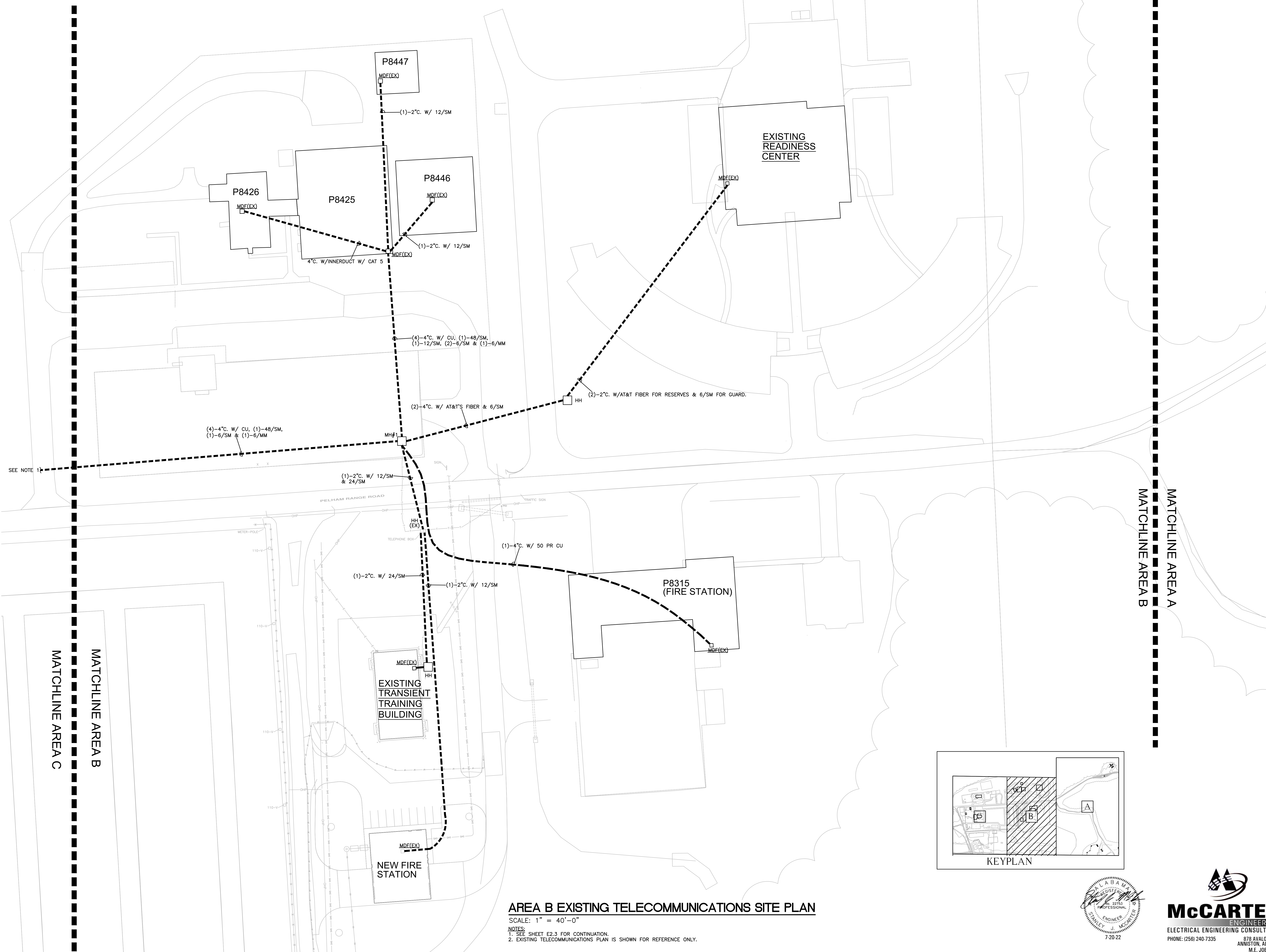
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AREA B EXISTING
TELECOMMUNICATIONS
SITE PLAN

Sheet Number

E2.2



AREA B EXISTING TELECOMMUNICATIONS SITE PLAN

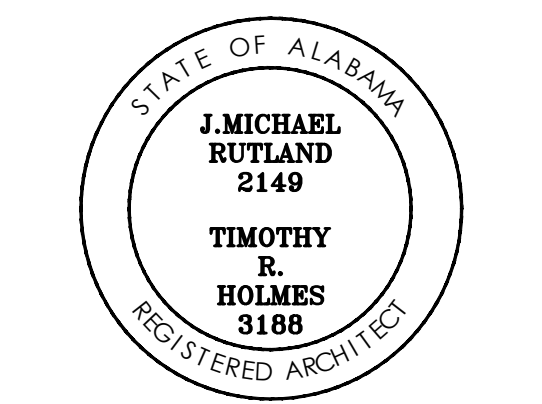
SCALE: 1" = 40'-0"

NOTES:
1. SEE SHEET E2.3 FOR CONTINUATION.
2. EXISTING TELECOMMUNICATIONS PLAN IS SHOWN FOR REFERENCE ONLY.



McCARTER
ENGINEERING

ELECTRICAL ENGINEERING CONSULTANTS
PHONE: (256) 240-7335 878 AVALON LANE
ANNISTON, AL 36207
M.E. JOB #2116



CONSTRUCTION
DOCUMENTS

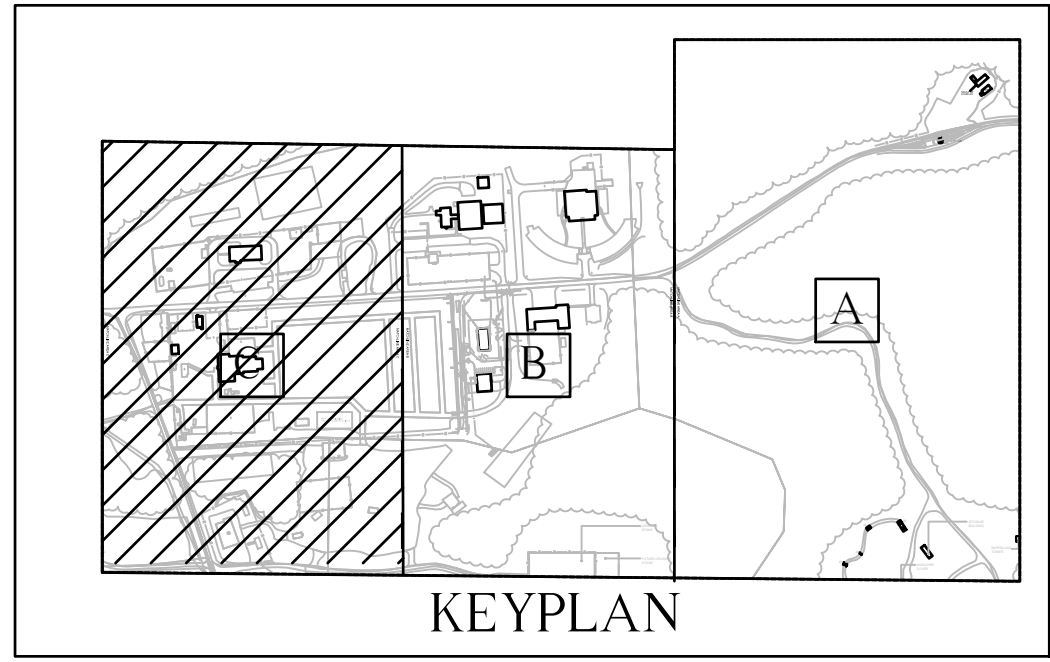
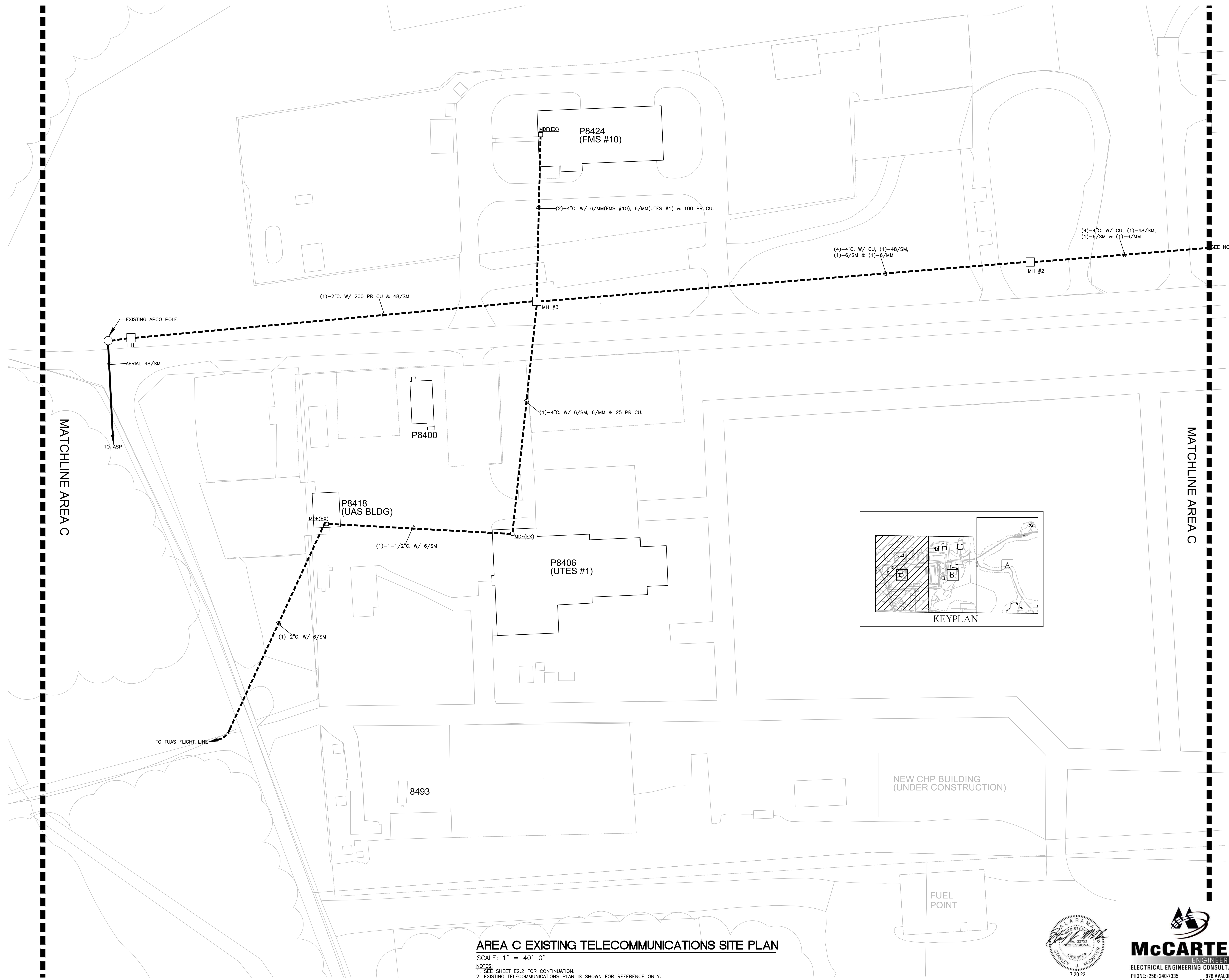
Project Number: 21-1078
Date: 20 JULY 2022
Revisions:

Sheet Description

AREA C EXISTING
TELECOMMUNICATIONS
SITE PLAN

Sheet Number

E2.3



AREA C EXISTING TELECOMMUNICATIONS SITE PLAN
SCALE: 1" = 40'-0"
NOTES:
1. SEE SHEET E2.2 FOR CONTINUATION.
2. EXISTING TELECOMMUNICATIONS PLAN IS SHOWN FOR REFERENCE ONLY.



McCARTER
ENGINEERING
ELECTRICAL ENGINEERING CONSULTANTS
PHONE: (256) 240-7335 878 AVALON LANE
ANNISTON, AL 36207
M.E. JOB #2116

MATCHLINE AREA A
MATCHLINE AREA B

KEYNOTES:

① CONTRACTOR SHALL INSTALL NEW ENCLOSED DOUBLE-HINGED LOCKABLE CABINET, INSTALL NEW TELEPHONE BACKBOARD TO MOUNT CABINET, PAINT BACKBOARD ANSI 61 GRAY. SUPPORT ALL FIBER OPTIC CABLE IN THE BUILDING WITH J-HOOKS AND STRAPS AS REQUIRED. SEE SHEET E5.1 FOR CABINET DETAIL. CONFIRM EXACT LOCATION OF CABINET WITH OWNER. CONTRACTOR SHALL INSTALL GROUNDING AND DEDICATED DOUBLE DUPLEX RECEPTACLE AT THE CABINET LOCATION.

(2)-4"C. W/ (3)-1.25" ID IN EACH WITH FOC AS INDICATED.

VAULT #4E

FOC 144/SM

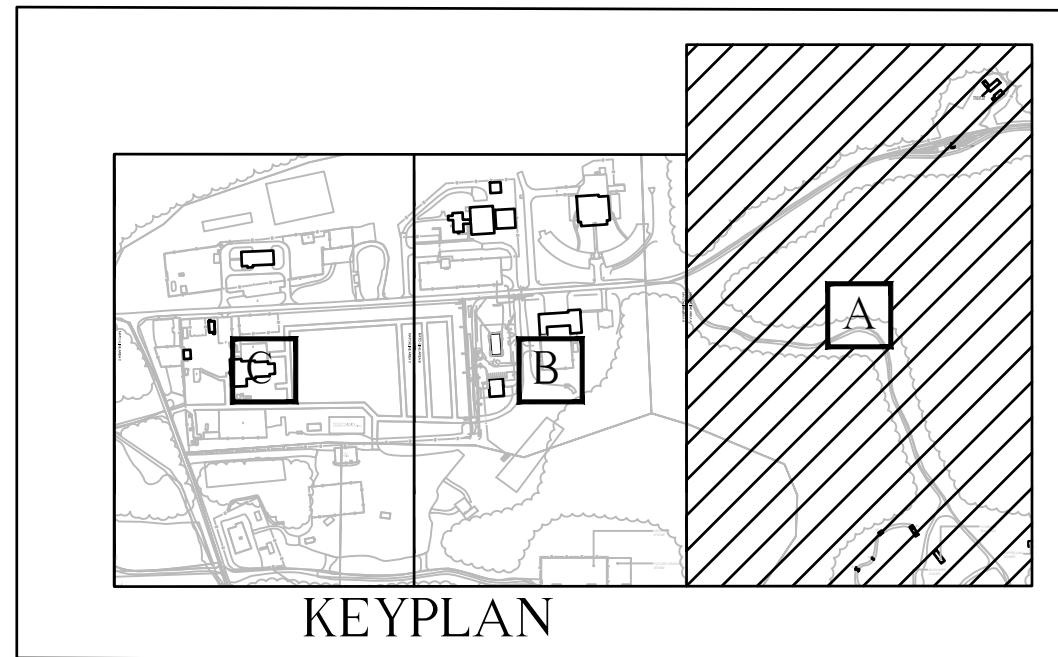
(2)-4"C. W/ (3)-1.25" ID IN EACH WITH FOC AS INDICATED.

SEE NOTE 1

AREA A TELECOMMUNICATIONS SITE PLAN

SCALE: 1" = 40'-0"

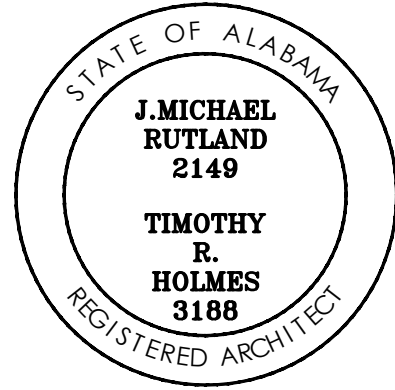
NOTES:
1. SEE SHEET E3.2 FOR CONTINUATION.



JMR+H
Architecture, P.C.

445 Dexter Avenue
Suite 5050
Montgomery, AL 36104

Phone: (334) 420-5672
Fax: (334) 420-5692



PELHAM RANGE TELECOMMUNICATIONS INFRASTRUCTURE MODERNIZATION

Pelham Range, Alabama
IFB# AC-22-B-0029-S

CONSTRUCTION DOCUMENTS

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Revisions:

Sheet Description

AREA A TELECOMMUNICATIONS SITE PLAN

Sheet Number

E3.1

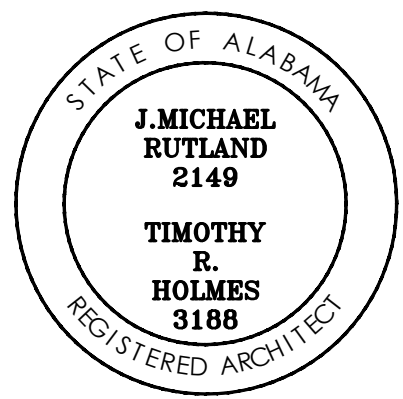
- ① CONTRACTOR SHALL SPLICE ONTO EXISTING FOC 24/SM IN EXISTING HANDHOLE THAT SERVES THE TRANSIENT TRAINING BUILDING AND EXTEND TO NEW MDF BUILDING.
- ② CONTRACTOR SHALL SPLICE ONTO EXISTING FOC 12/SM IN EXISTING HANDHOLE THAT SERVES THE NEW FIRE STATION BUILDING AND EXTEND TO NEW MDF BUILDING.



| BLDG NAME/# | # OF FIBER STRANDS TO BLDG. | FIBER OPTIC CABLE # TO SERVE BLDG. |
|--------------------|-----------------------------|------------------------------------|
| RANGE OF FORWARD | 12 | FOC #4 (144/SM) |
| GMO | 12 | FOC #4 (144/SM) |
| GUARD SHACK | 12 | FOC #4 (144/SM) |
| P8315 FIRE STATION | 12 | FOC #7 (12/SM) |
| TRANSIENT TRAINING | 24 | FOC #6 (36/SM) |
| NEW FIRE STATION | 12 | FOC #6 (36/SM) |
| READINESS CTR | 12 | FOC #2 (72/SM) |
| P8426 | 12 | FOC #2 (72/SM) |
| P8425 | 12 | FOC #2 (72/SM) |
| P8446 | 12 | FOC #2 (72/SM) |
| P8447 | 12 | FOC #2 (72/SM) |
| P8400 | 6 | FOC #1 (72/SM) |
| P8406(UTES #1) | 12 | FOC #1 (72/SM) |
| P8418(UAS BLDG) | 12 | FOC #1 (72/SM) |
| P8424(FMS #10) | 12 | FOC #1 (72/SM) |
| TUAS | 6 | FOC #1 (72/SM) |

JMR+H
Architecture, P C
445 Dexter Avenue
Suite 5050
Montgomery, AL 36104

Phone: (334) 420-5672
Fax: (334) 420-5692



PELHAM RANGE
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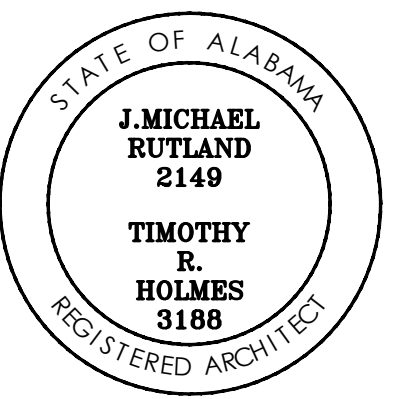
AREA B
TELECOMMUNICATIONS
SITE PLAN

Sheet Number

E3.2



McCARTER
ENGINEERING
ELECTRICAL ENGINEERING CONSULTANTS
PHONE: (256) 240-7335
878 AVALON LANE
ANNISTON, AL 36820
M.E. JOB #2116



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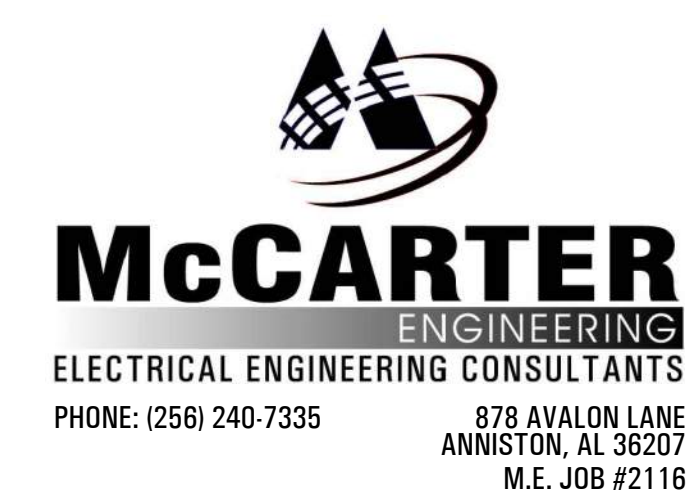
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AREA C
TELECOMMUNICATIONS
SITE PLAN

Sheet Number

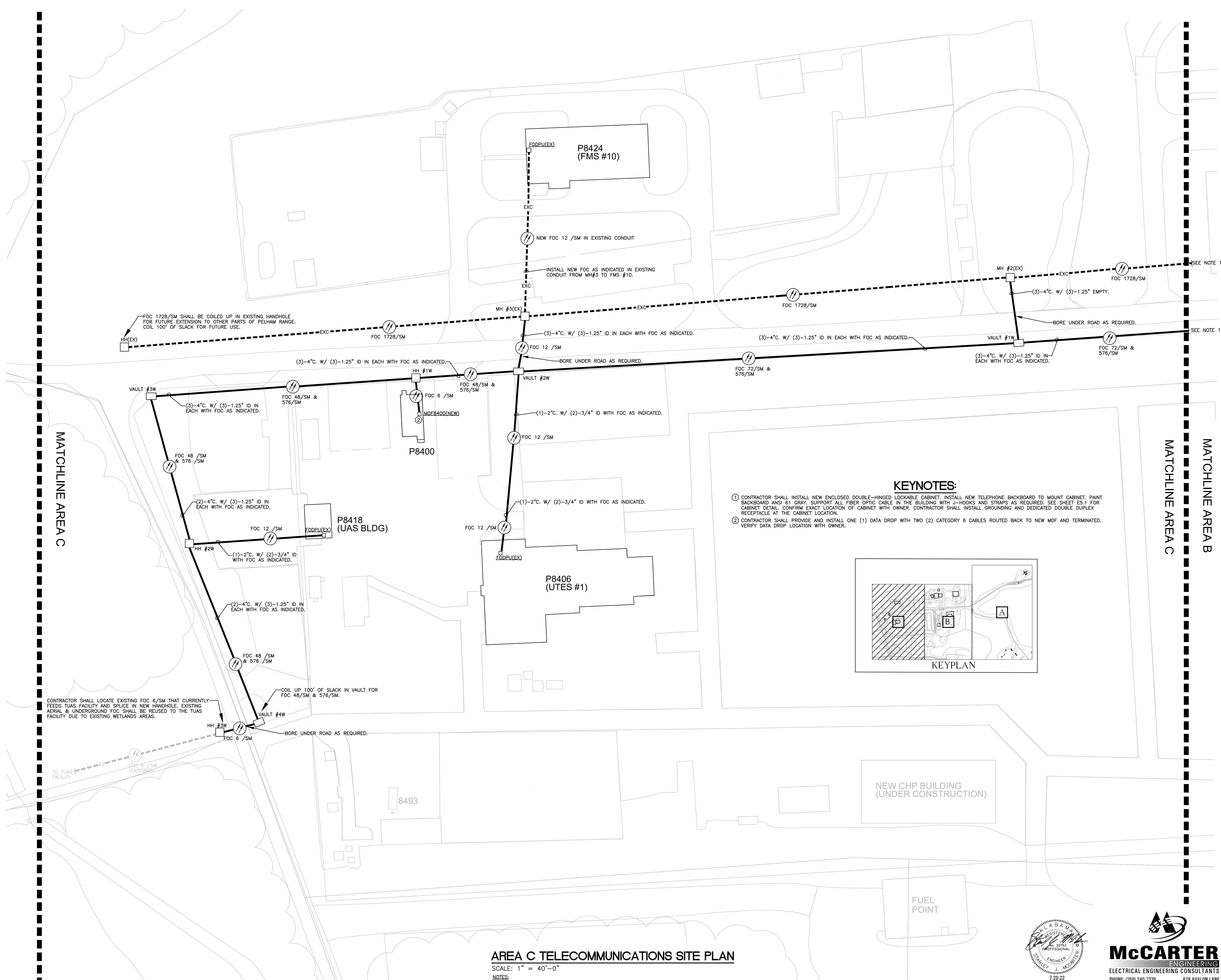
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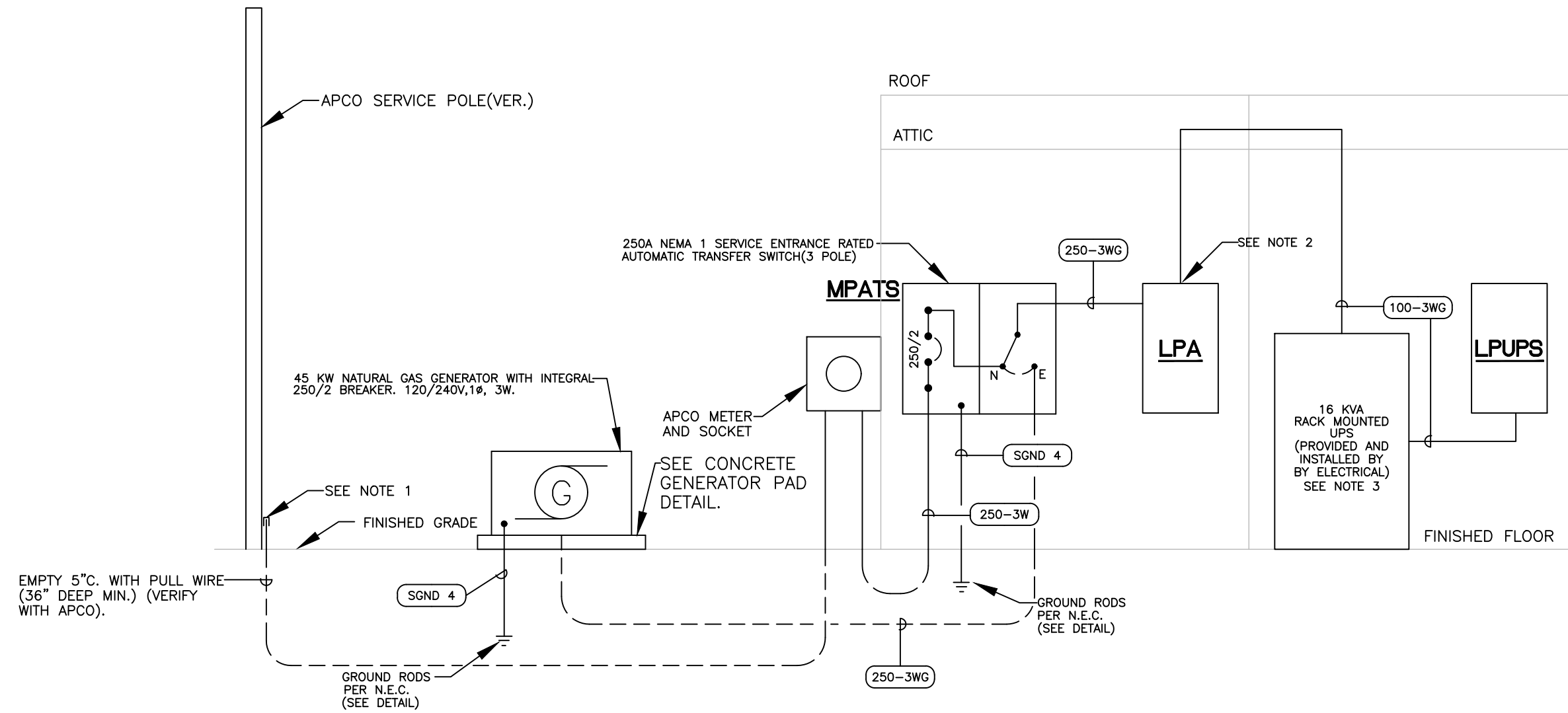


AREA C TELECOMMUNICATIONS SITE PLAN

SCALE: 1" = 40'-0"

NOTES:
1. SEE SHEET E3.2 FOR CONTINUATION.





ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.

NOTES:

- STUB UP AT BASE OF POLE FOR 120/240V, 1Ø, 3W APCO SERVICE FROM FROM OVERHEAD TRANSFORMER.
- FEED UPS WITH A 100/2 BREAKER IN PANEL LPA.
- UPS SHALL BE 16 KVA, RACK MOUNTED, 240V INPUT WITH 120/240V, 1PH OUTPUT. UPS SHALL HAVE A MAINTENANCE BYPASS SWITCH. UPS SHALL CARRY LOAD FOR A MINIMUM OF 30 MINUTES. UPS SHALL BE APC, TRIPP LITE OR PRIOR APPROVED EQUAL.

OCCUPANCY SENSOR LOCATIONS AND TYPES SHOWN ARE THE BASIS OF DESIGN FOR ONE MANUFACTURER AND ARE SCHEMATIC AND SHOULD BE VERIFIED WITH MANUFACTURER PRIOR TO INSTALLATION. OCCUPANCY SENSOR MANUFACTURER SHALL SUBMIT A LAYOUT OF RECOMMENDED SENSOR TYPES AND LOCATIONS PRIOR TO INSTALLATION. THE MANUFACTURER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO PROVIDE COVERAGE FOR ALL ROOMS AND THE MANUFACTURER SHALL PROVIDE ON-SITE START-UP AND SENSOR ADJUSTMENTS AS NECESSARY TO ENSURE PROPER FUNCTION AND COVERAGE IN ALL ROOMS. THE TIME DELAYS FOR THE SENSORS SHALL BE COORDINATED WITH THE OWNER. THE MANUFACTURER SHALL INSTALL EITHER SLAVE RELAY POWER PACKS OR TWO RELAY POWER PACKS TO ENSURE THAT MULTILEVEL SWITCHING FUNCTIONS CORRECTLY IN EACH SPACE.

LIGHTING FIXTURE SCHEDULE

| MARK | MANUFACTURER | CATALOG NO. | LAMPS | | | MOUNTING HEIGHT | TYPE MOUNTING | RECESS DEPTH | REMARKS |
|------|--------------|----------------------------------|------------------------|-------|------|-----------------------|---------------|--------------|-----------------|
| | | | NO. | WATTS | TYPE | | | | |
| A12 | LITHONIA | 2BLTX4-48L-ADP-120-EZ1-LP850-GMF | FURNISHED WITH FIXTURE | | | CEILING | SURFACE | | SEE NOTE 1 |
| L4 | LITHONIA | WST-LED-P2-50K-VF-120-SF | FURNISHED WITH FIXTURE | | | +9' A.F.F. (VER. HT.) | SURFACE | | SEE NOTES 1 & 2 |
| X | LITHONIA | LES-R-120-ELN | FURNISHED WITH FIXTURE | | | ABOVE DOOR | SURFACE | | SEE NOTE 1 |

NOTES:

- EQUAL FIXTURE BY COLUMBIA AND DAYBRITE WILL BE ACCEPTABLE.
- VERIFY FINISH WITH ARCHITECT.

PANELBOARD SCHEDULE

| MARK | TYPE | MAINS | | | BRANCHES | | | | | LUG LOCATION | TYPE MOUNTING | MINIMUM A/C RATING | REMARKS |
|-------|------|-------|------|--------------------|----------|---------------------------------------|--------|--------|--------|--------------|---------------|--------------------|-----------------|
| | | TYPE | AMPS | SERVICE | 1 POLE | 2 POLE | 3 POLE | SPARES | SPACES | | | | |
| LPA | NQOD | MB | 250 | 120/240V 1Ø, 3W | 5-20 | 2-20 1-30 1-45 1-50 1-100 | | 6-20/1 | 19-1PS | BOTTOM | SURFACE | VERIFY WITH APCO | SEE NOTES 1 & 2 |
| LPUPS | NQOD | MB | 100 | 120/240V 1Ø, 3W | 7-20 | | | 6-20/1 | 17-1PS | BOTTOM | SURFACE | VERIFY WITH APCO | SEE NOTES 1 & 3 |

NOTES:

- PANEL SHALL BE FULLY RATED AND SHALL HAVE A HINGED FRONT TRIM.
- PANEL SHALL BE EQUIPPED WITH BUILT-IN SURGE PROTECTION, CAPABLE OF WITHSTANDING A TRANSIENT SURGE OF 160,000 AMPS.
- PANEL SHALL BE EQUIPPED WITH BUILT-IN SURGE PROTECTION, CAPABLE OF WITHSTANDING A TRANSIENT SURGE OF 100,000 AMPS.

NOTE:
ALL 120 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS:
LESS THAN 75 FEET.....#12 AWG
BETWEEN 76' AND 125'.....#10 AWG
BETWEEN 126' AND 190'.....#8 AWG

MECHANICAL EQUIPMENT CIRCUIT SCHEDULE

| UNIT ID | CIRCUIT NUMBER | BREAKER SIZE | WIRE SIZE | GROUND SIZE | CONDUIT SIZE | DISCONNECT TYPE |
|---------------|----------------|--------------|-----------|-------------|--------------|-----------------|
| DAC-1(OD/ID)* | LPA-5,6 | 30/2 | 2 #10 | #10 | 1/2" | 30/2, F, RT |
| WMHP-1 | LPA-15,16 | 50/2 | 2 #8 | #10 | 3/4" | 60/2, F, RT |
| WMHP-2 | LPA-17,18 | 45/2 | 2 #8 | #10 | 3/4" | 60/2, F, RT |

NF - NONFUSED

F - FUSED (FUSE PER MANUFACTURERS RECOMMENDATIONS)

RT - RAIN TIGHT

TS - TOGGLE SWITCH ("WP" INDICATES WEATHERPROOF)

DPTS - DOUBLE POLE TOGGLE SWITCH

MRS - MOTOR RATED SWITCH

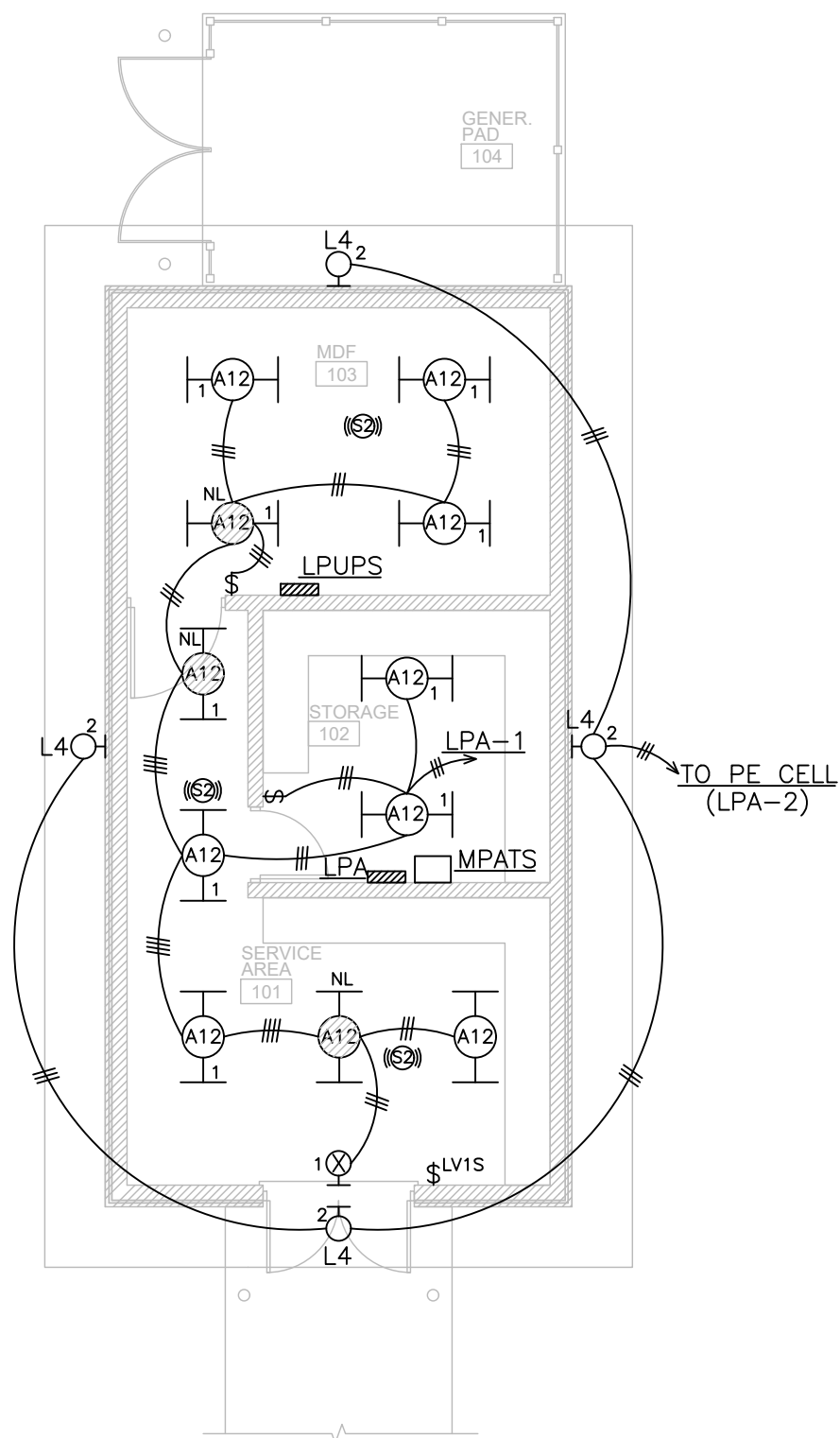
S/T - SHUNT TRIP BREAKER

NOTE: MAINTAIN CODE REQUIRED CLEARANCES FOR DISCONNECTS.

* CIRCUIT DAC(ID) FROM DAC(OD). PROVIDE A 20A DPTS DISCONNECT FOR DAC(ID). CIRCUIT INDOOR UNIT WITH 2 #12 & 1 #12(G) THHN IN 1/2" C.

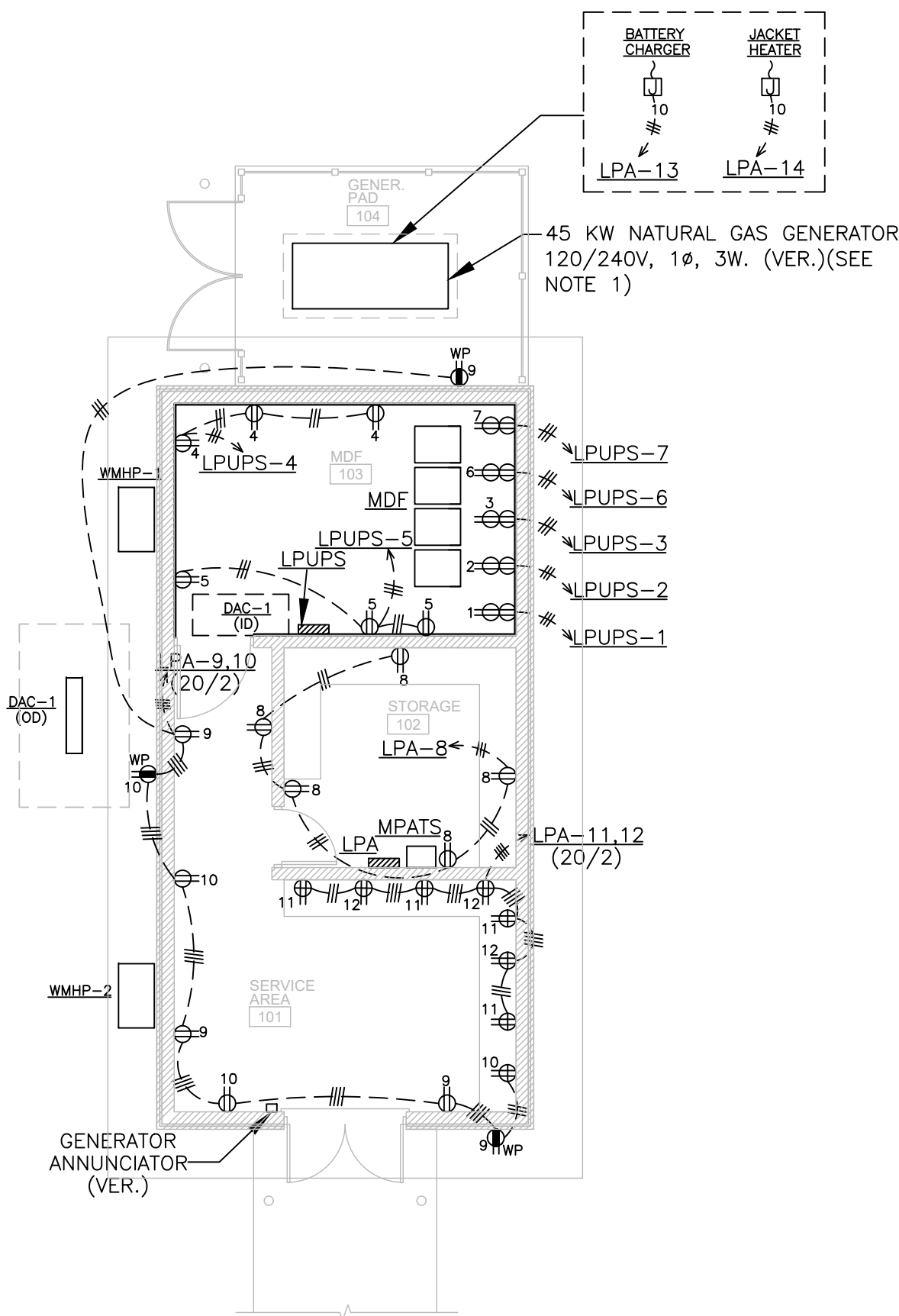
FEEDER/GROUND CONDUCTOR SCHEDULE

| AMPS | 1 Ø WIRE TAG | SINGLE PHASE FEEDER/EQUIPMENT |
|--------------------|--------------|-----------------------------------|
| 100 W/ GND | (100-3WG) | 3 #3 & 1 #8(G) IN 1-1/4" C. |
| 250 W/ GND | (250-3WG) | 3 #250 MCM & 1 #4(G) IN 2-1/2" C. |
| 250 W/O GND | (250-3W) | 3 #250 MCM IN 2-1/2" C. |
| MISCELLANEOUS TAGS | | |
| | (SGND 4) | 1 #2 CU IN 3/4" C. |



LIGHTING PLAN

SCALE: 1/8" = 1'-0"

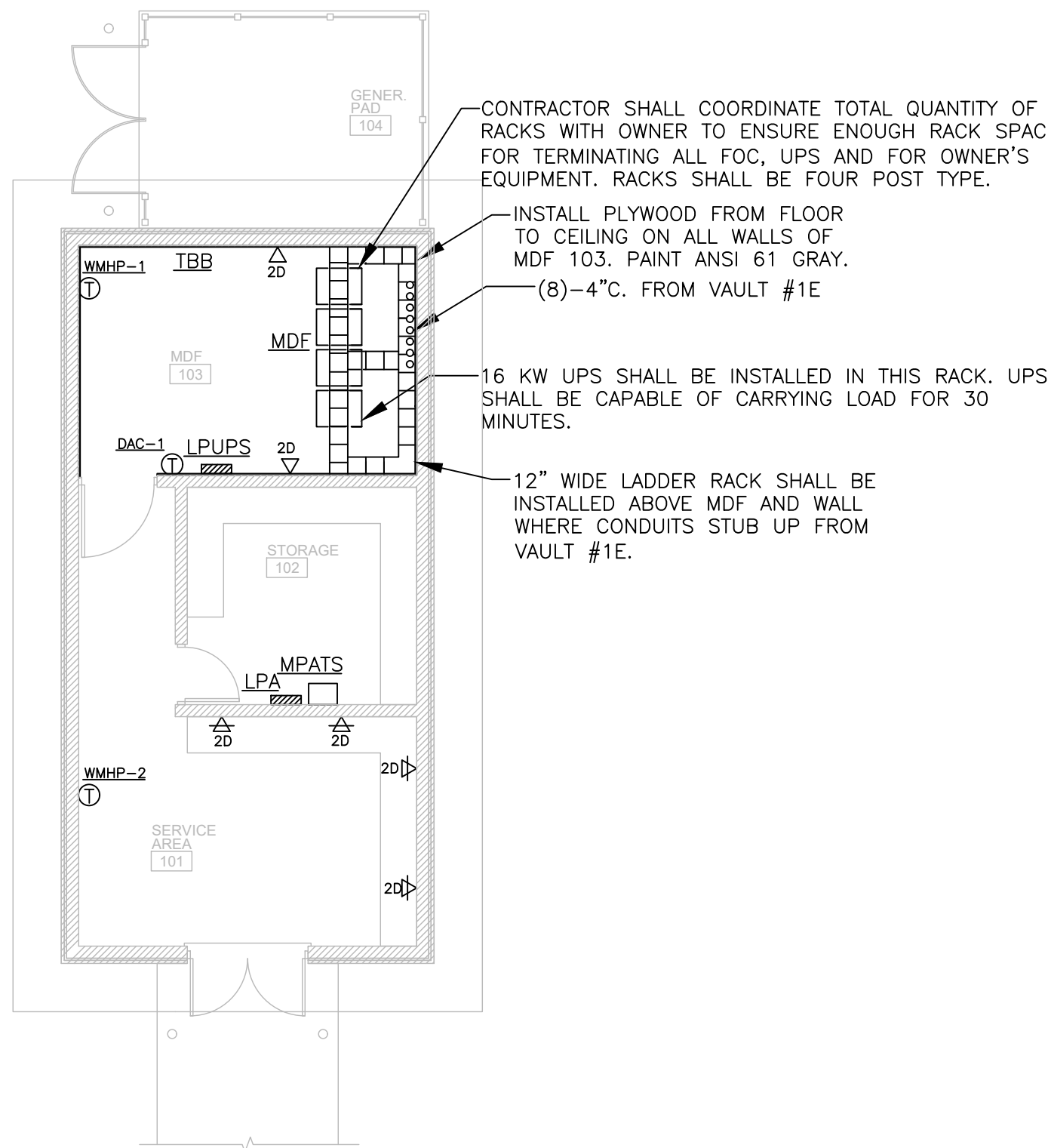


POWER PLAN

SCALE: 1/8" = 1'-0"

NOTES:

- PROVIDE AND INSTALL 1-1" CONDUIT FROM THE GENERATOR CONTROL PANEL TO THE GENERATOR ANNUNCIATOR WITH SIGNAL WIRING AS DIRECTED BY GENERATOR MANUFACTURER. ALSO, PROVIDE AND INSTALL 1-1" CONDUIT FROM THE GENERATOR CONTROL PANEL TO EACH AUTOMATIC TRANSFER SWITCH WITH CONTROL WIRING AS DIRECTED BY GENERATOR MANUFACTURER. VERIFY ANNUNCIATOR LOCATION WITH OWNER.



AUXILIARIES PLAN

SCALE: 1/8" = 1'-0"

NOTES:

- ALL NEW CATEGORY 6 CABLES SHALL BE ROUTED TO MDF AND TERMINATED ONTO PATCH PANELS.

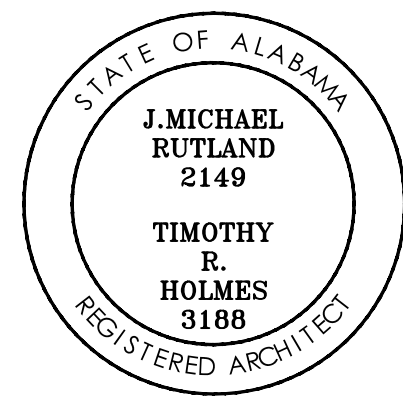
JMR+H

Architecture, P.C

445 Dexter Avenue
Suite 5050
Montgomery, AL 36104

Phone: (334) 420-5672

Fax: (334) 420-5692



PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION

Pelham Range, Alabama
IFB# AC-22-B-0029-S

CONSTRUCTION DOCUMENTS

Project Number: 21-1078

Date: 20 JULY 2022

Revisions:

Sheet Description

LIGHTING, POWER,
AUXILIARIES PLANS
AND LIGHTING
FIXTURE SCHEDULE

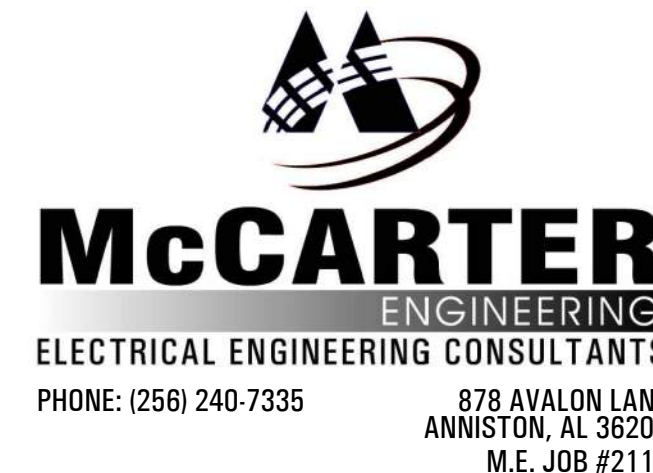
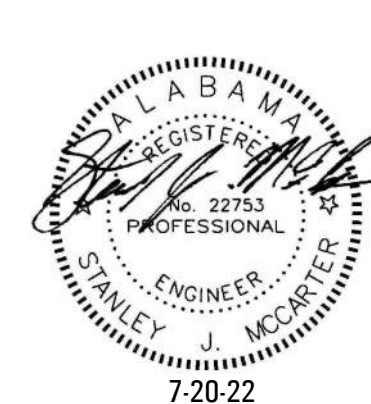
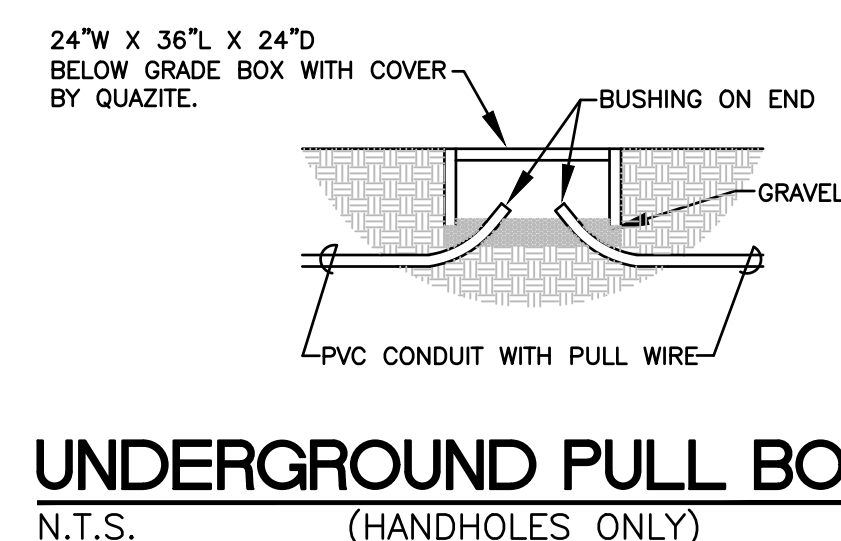
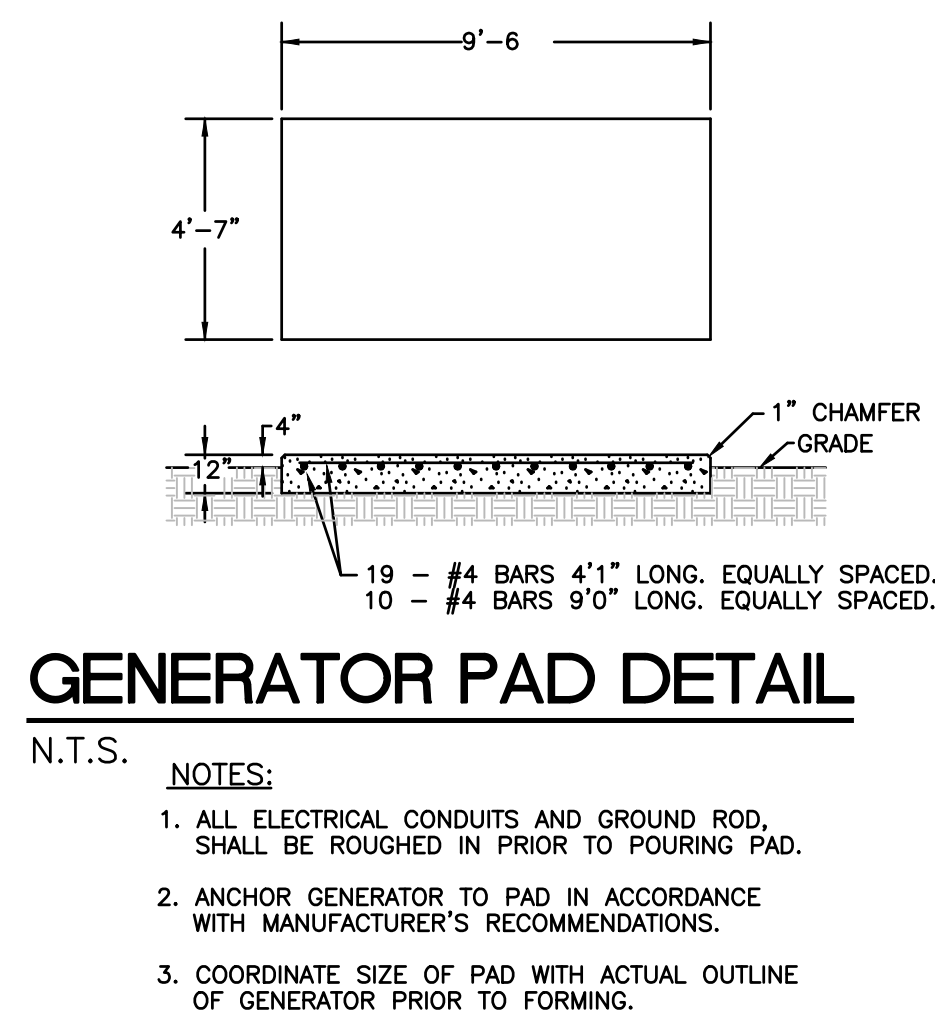
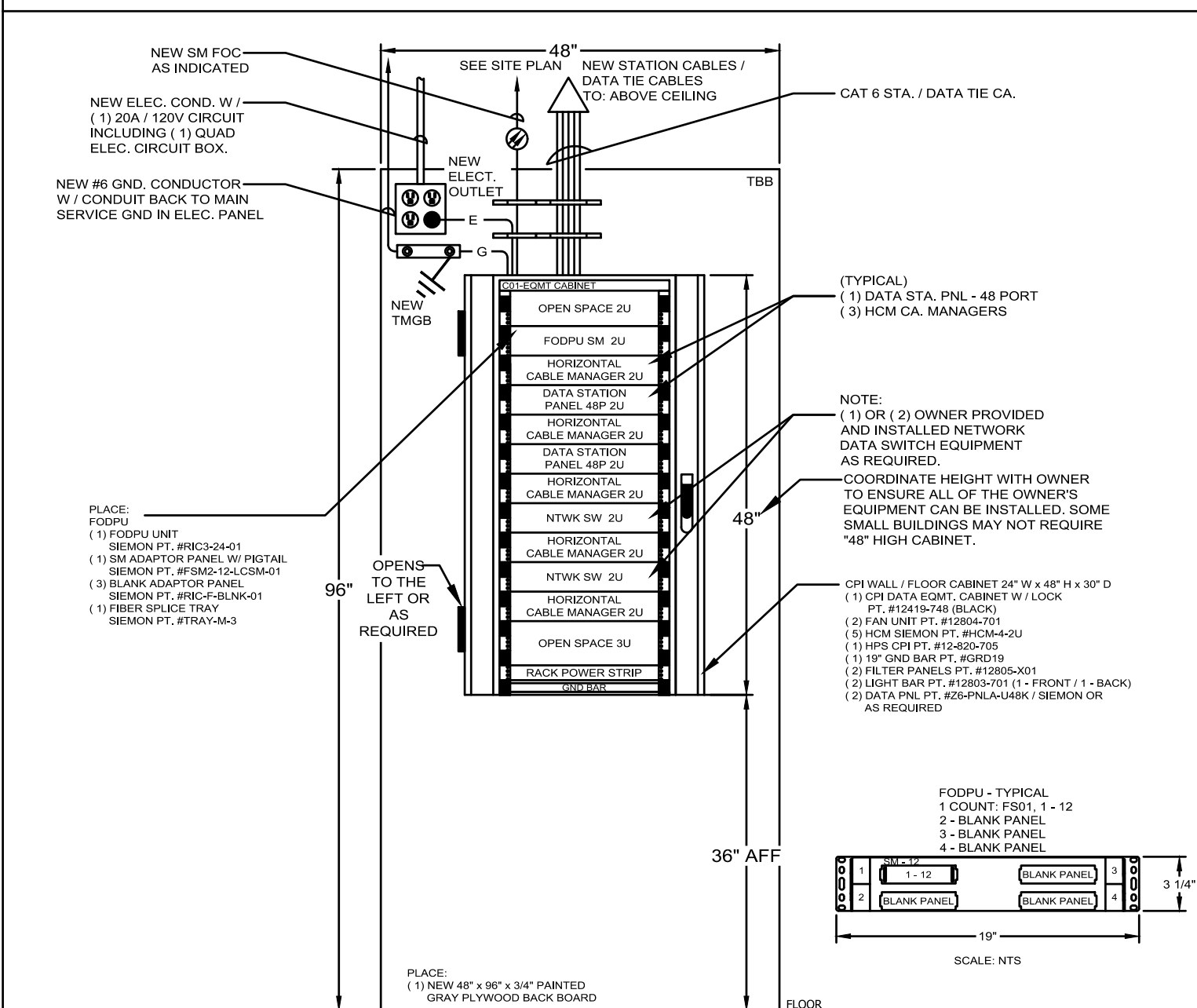
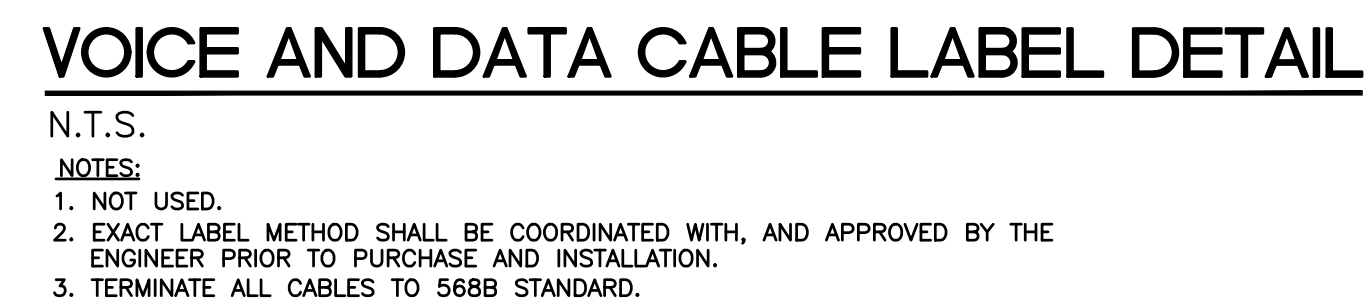
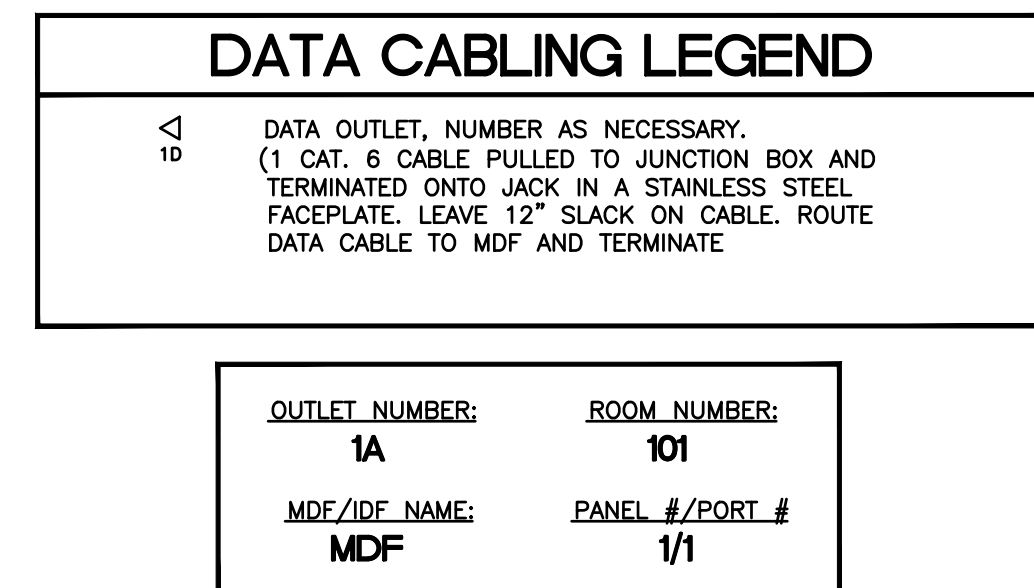
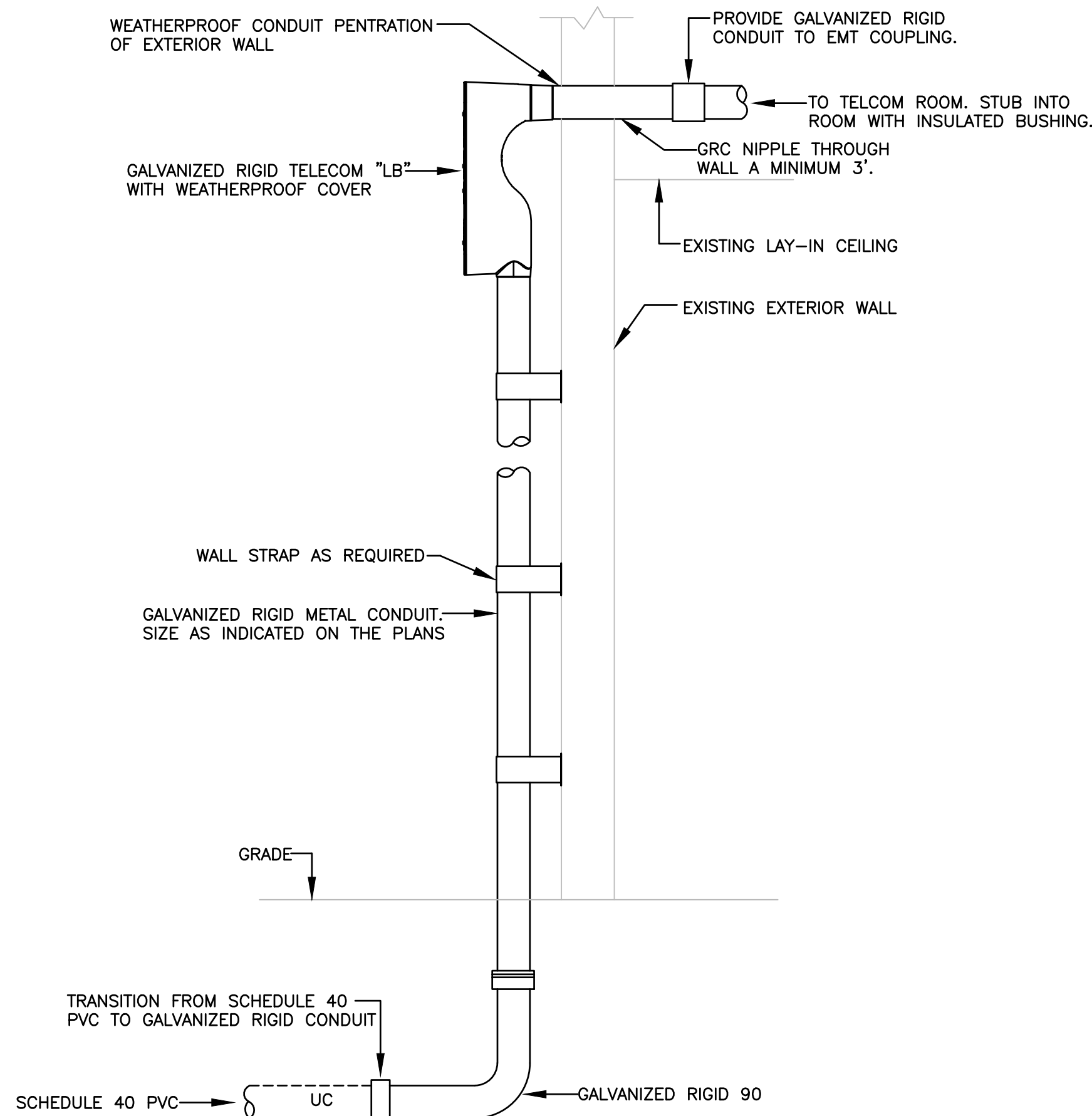
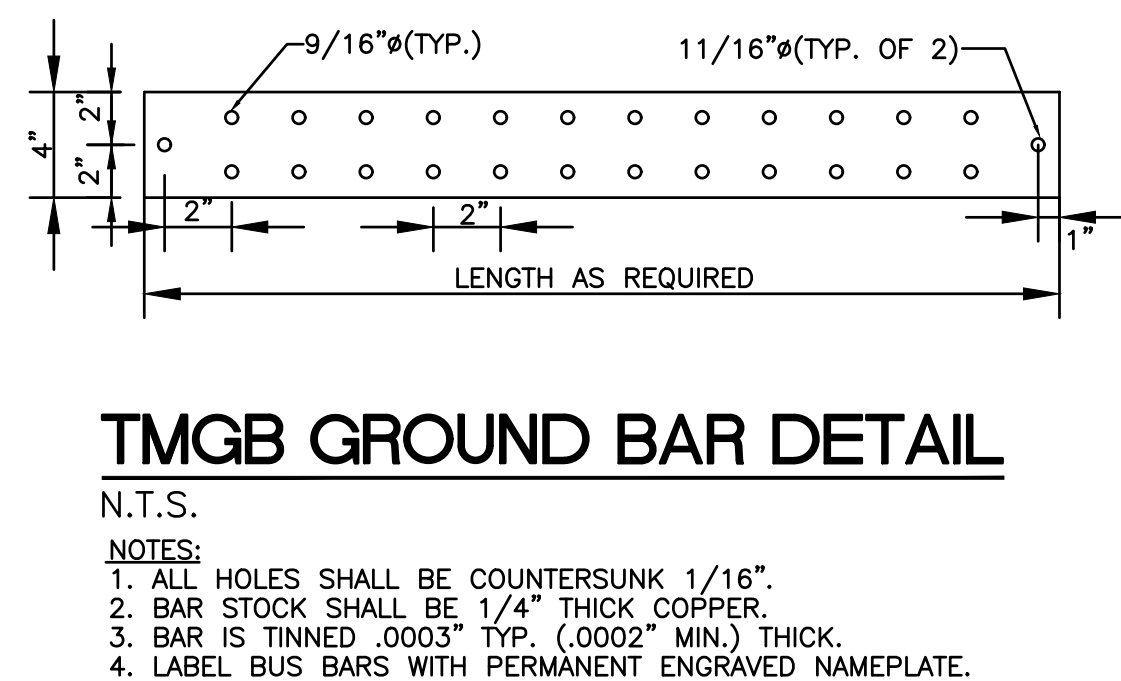
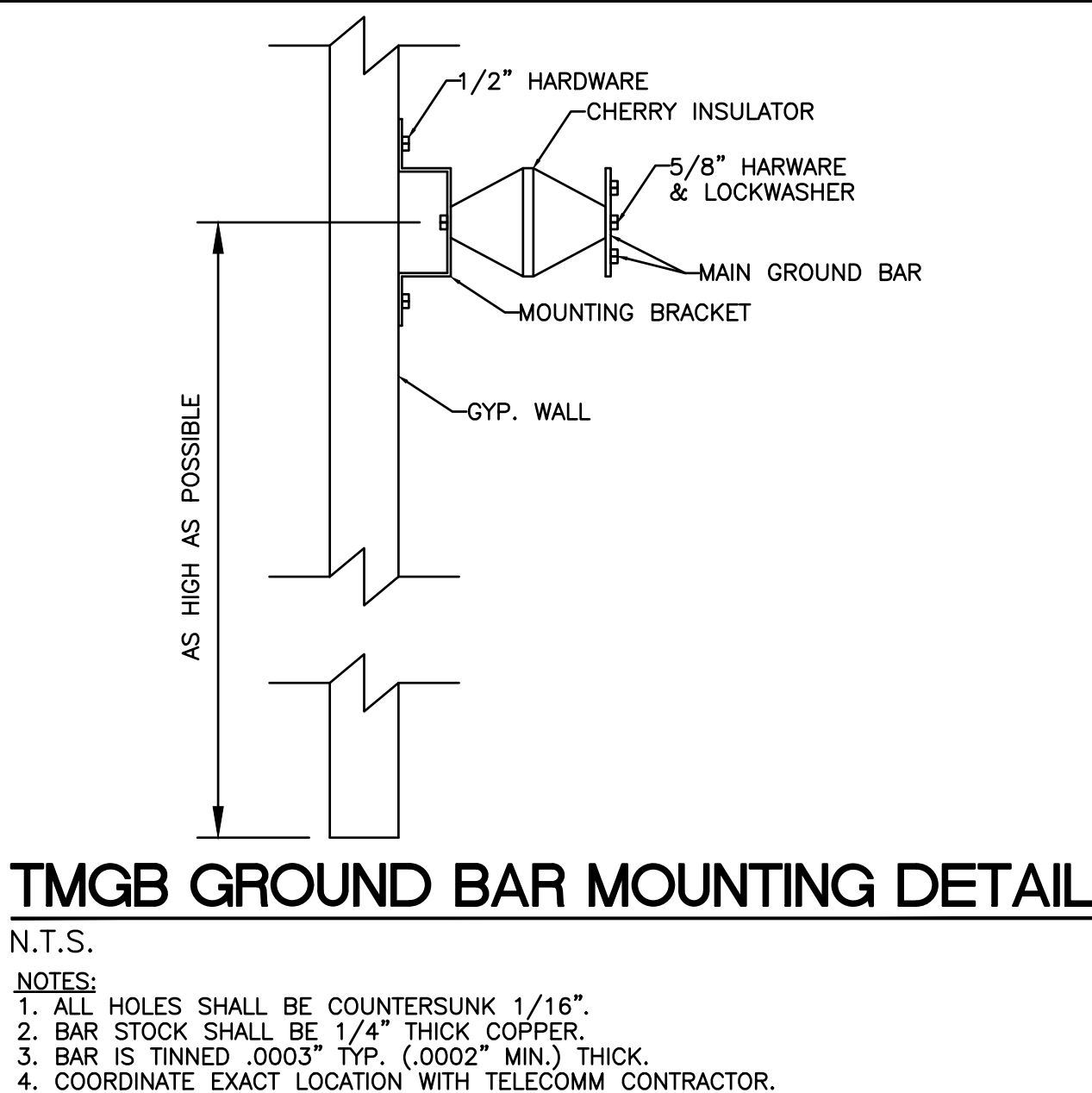
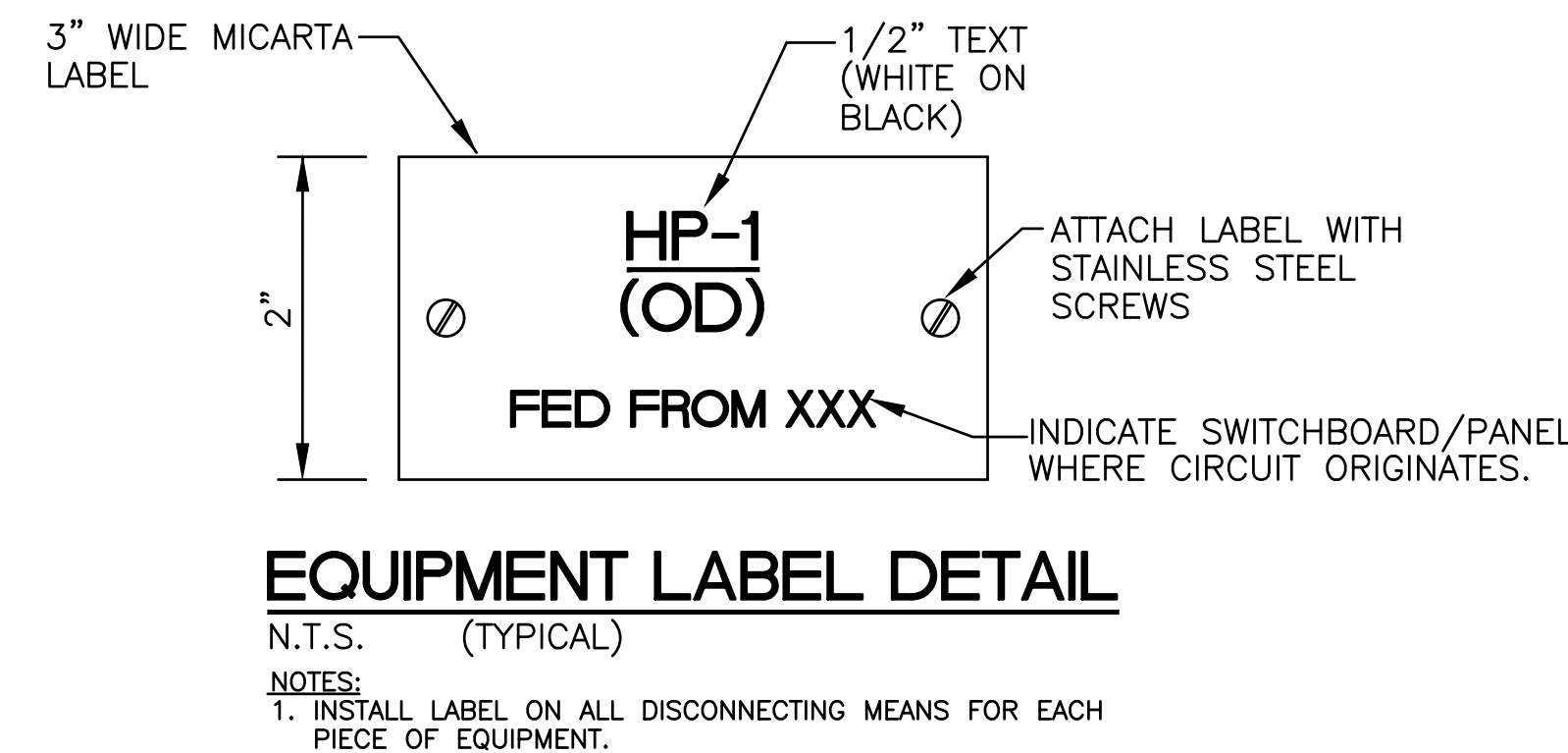
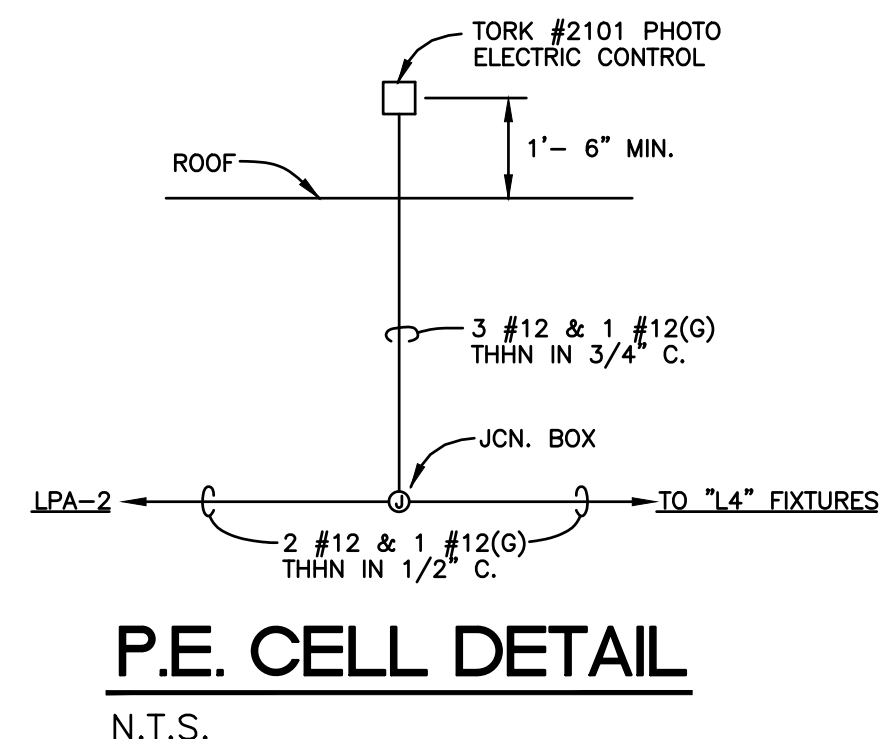
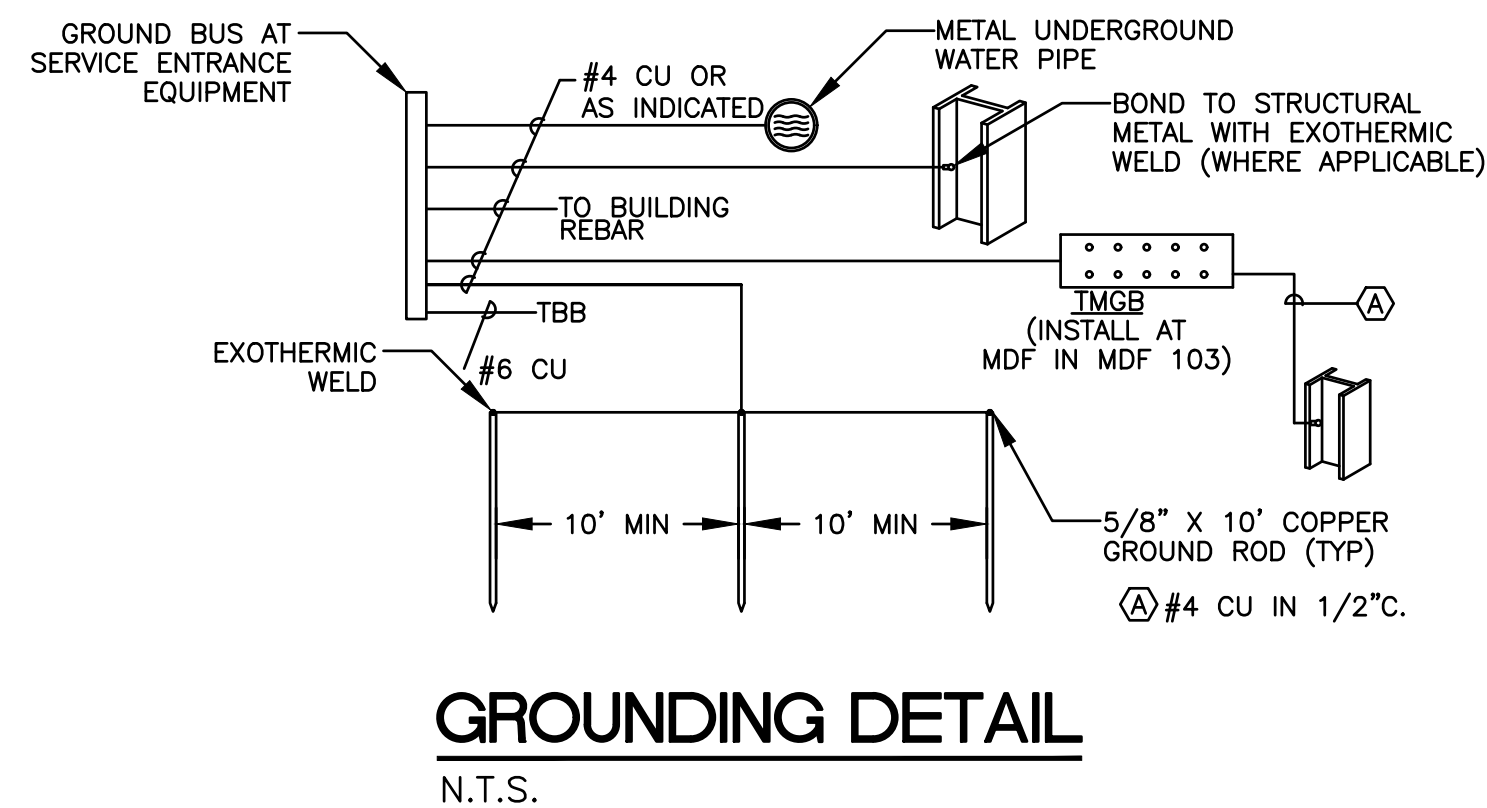
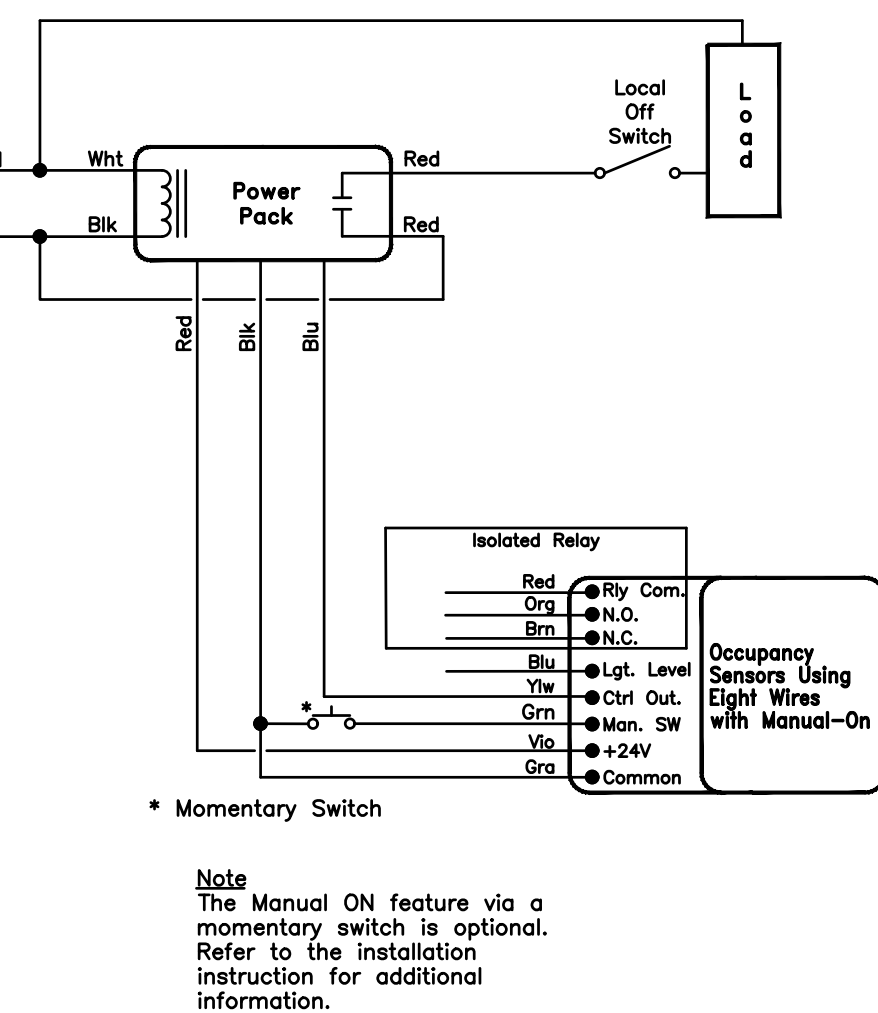
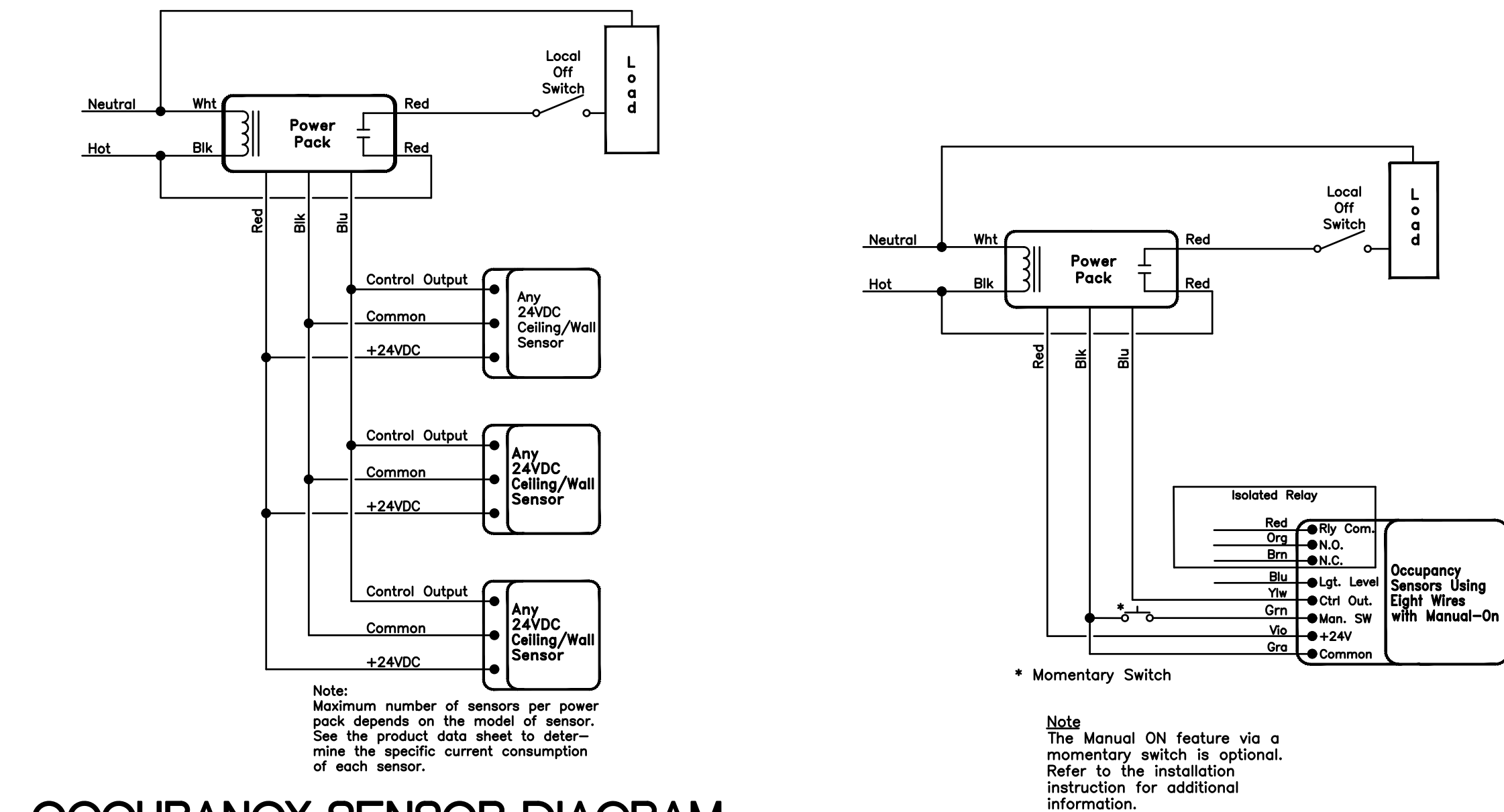
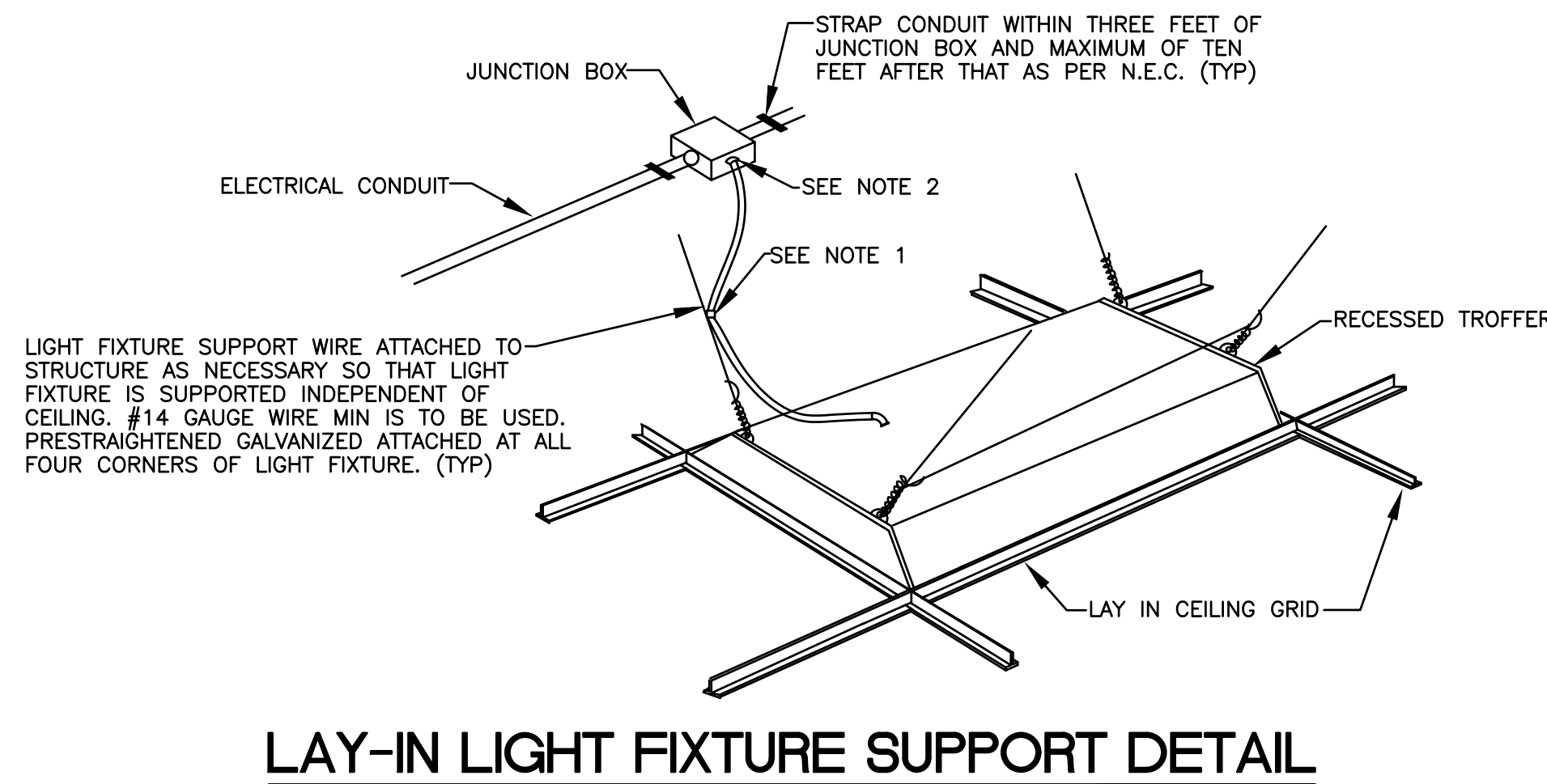
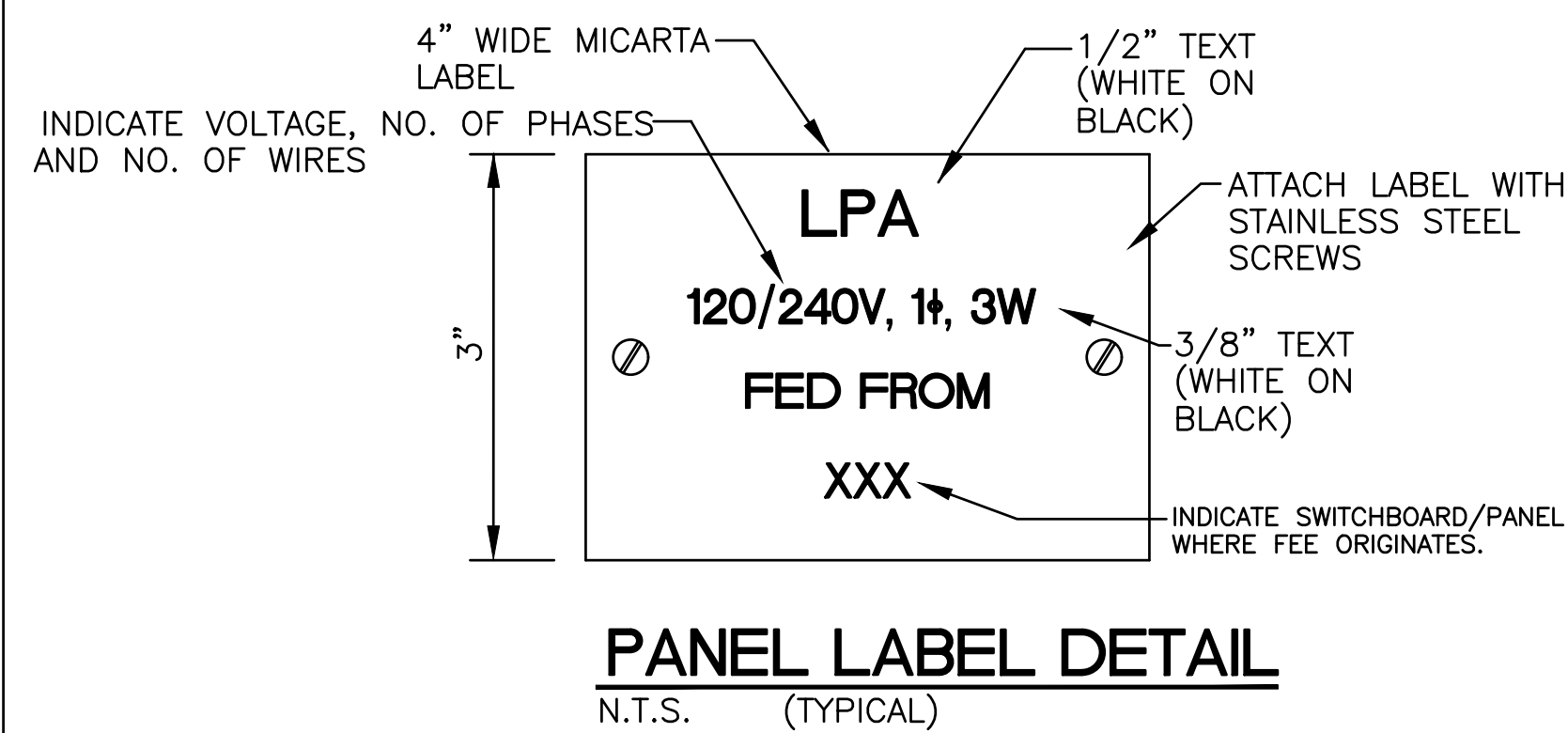
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McCARTER
ENGINEERING
ELECTRICAL ENGINEERING CONSULTANTS
PHONE: (256) 240-7335
878 AVALON LANE
ANNISTON, AL 36207
M.E. JOB #2116

E4.1

20 OF 22



JMR+H
Architecture, PC
445 Dexter Avenue
Suite 5050
Montgomery, AL 36104
Phone: (334) 420-5672
Fax: (334) 420-5692

J. MICHAEL RUTLAND
2149
TIMOTHY R. HOLMES
3188
REGISTERED ARCHITECT

PELHAM RANGE
TELECOMMUNICATIONS
INFRASTRUCTURE
MODERNIZATION
Pelham Range, Alabama
IFB# AC-22-B-0029-S

CONSTRUCTION DOCUMENTS

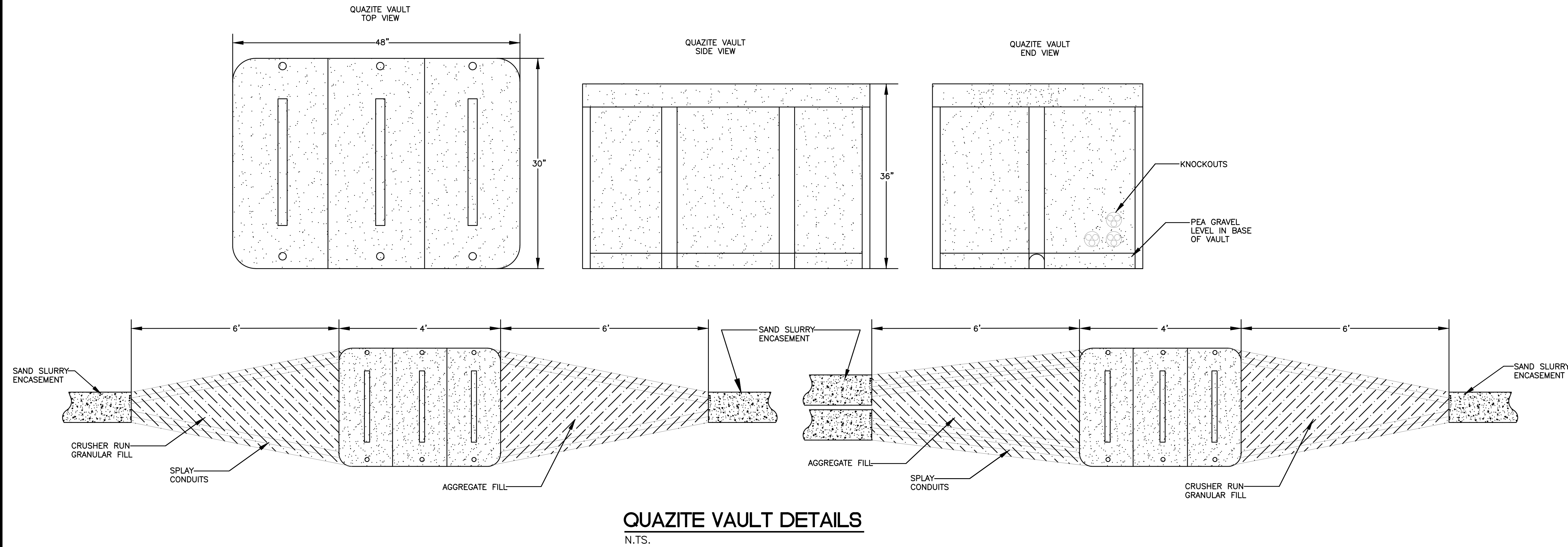
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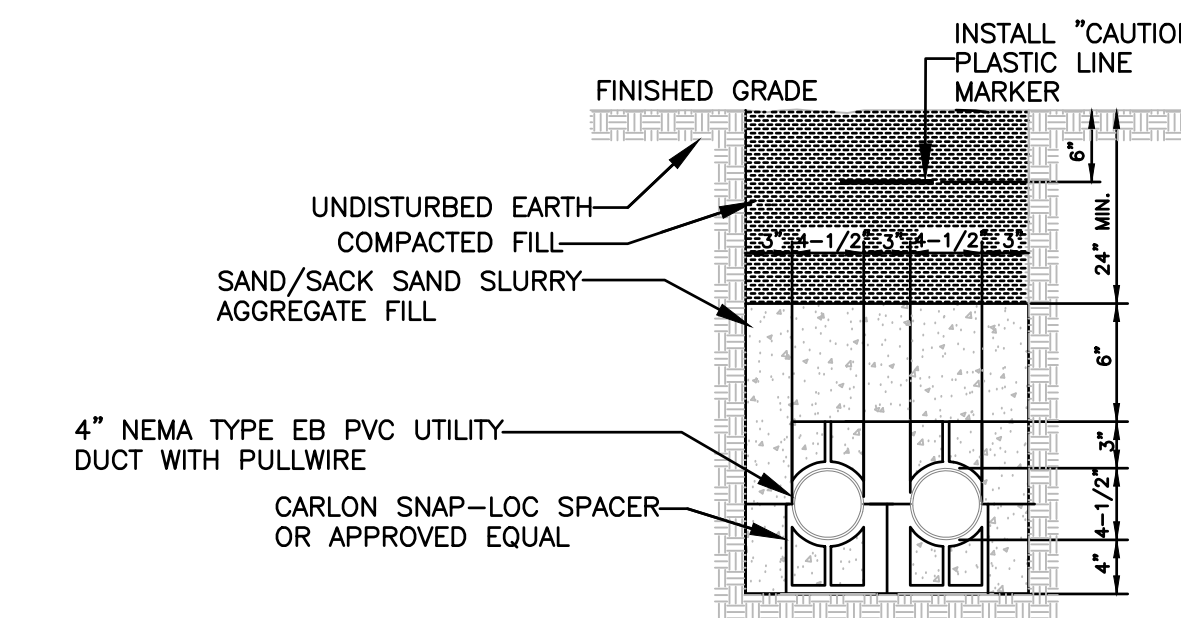
ELECTRICAL DETAILS

Sheet Number

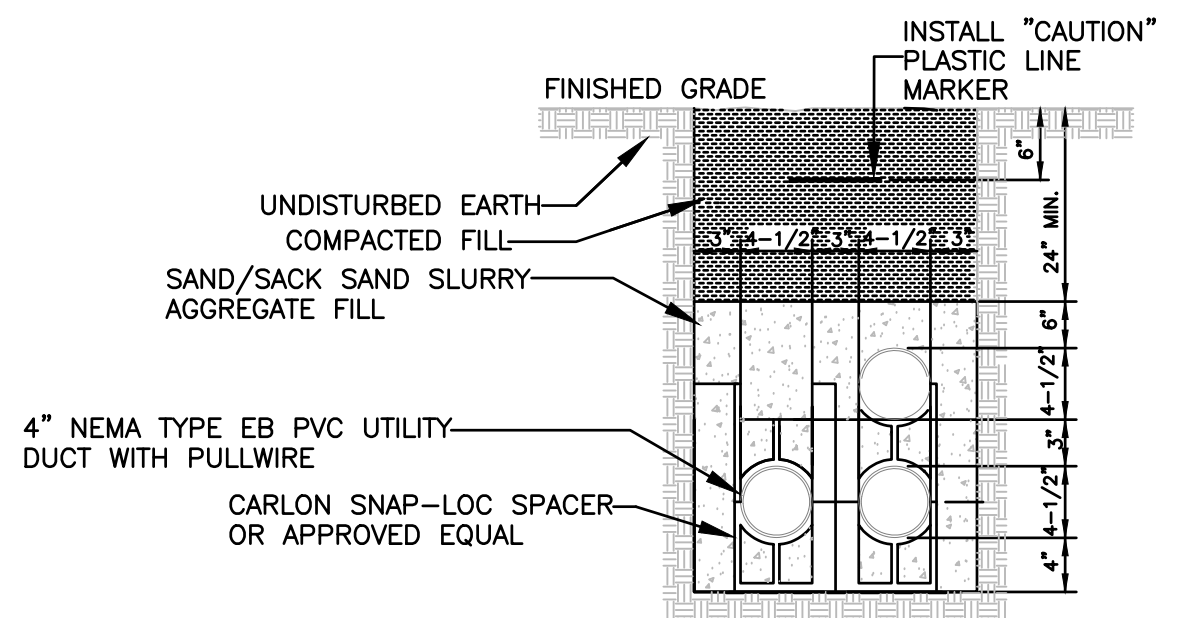
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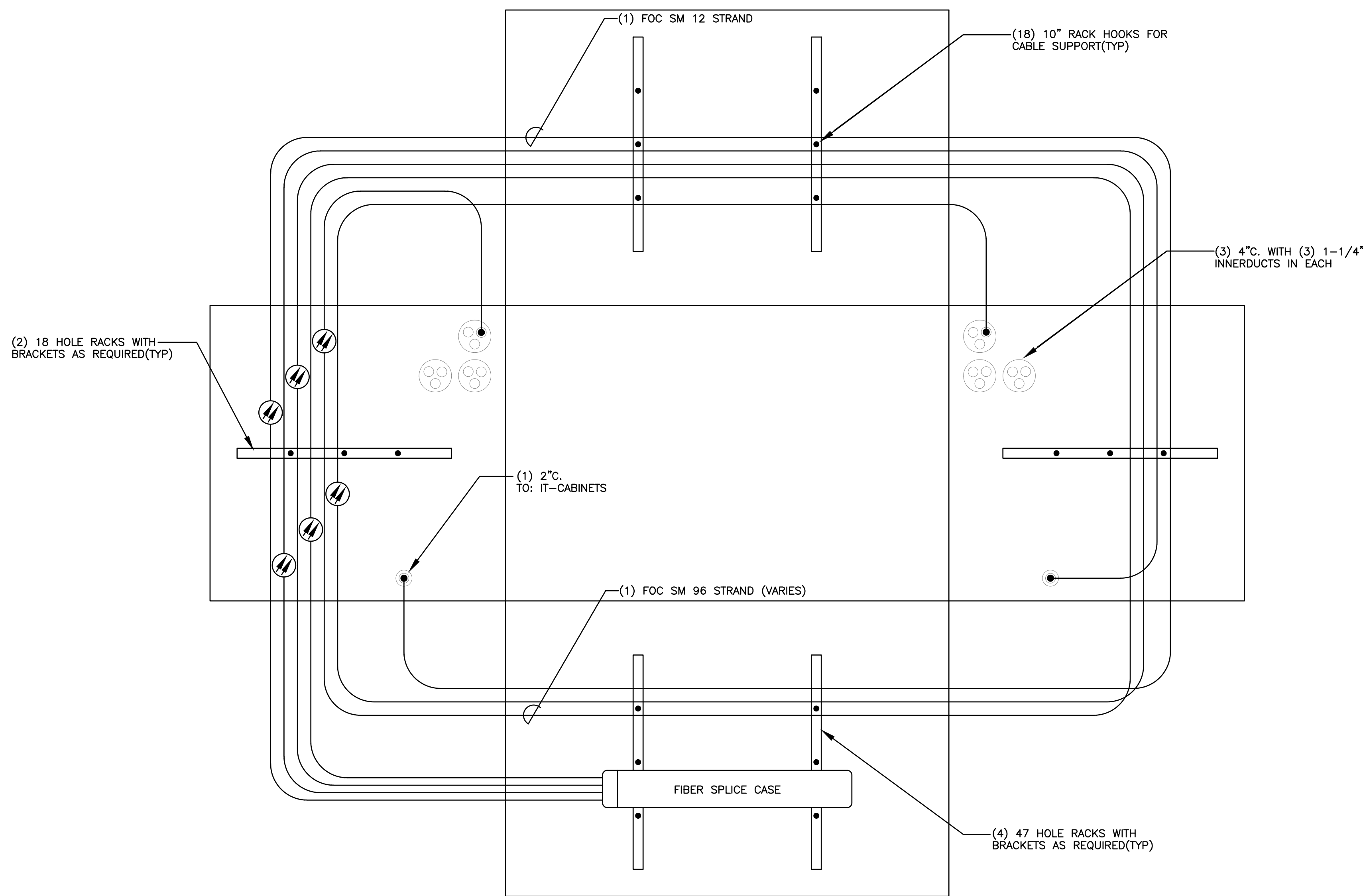
QUAZITE VAULT DETAILS
N.T.S.



2-WAY 4" DUCT BANK SECTION
N.T.S.



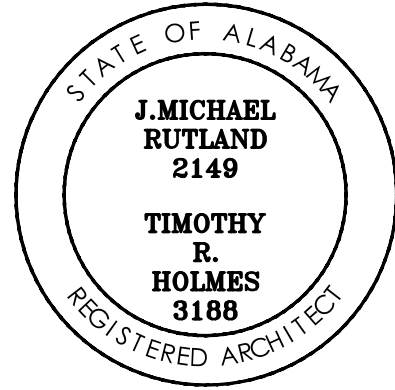
3-WAY 4" DUCT BANK SECTION
N.T.S.



VAULT HARDWARE DETAIL
N.T.S. (TYPICAL FOR ALL VAULTS)

VAULT AND CONDUIT CONSTRUCTION SPECIFICATIONS AND NOTES:

1. NEW VAULTS SHALL BE REINFORCED QUAZITE CONSTRUCTION, PRE-CAST, AND SHALL MEET INDUSTRY STANDARDS FOR TELECOMMUNICATION MAINTENANCE HOLES. MAINTENANCE HOLE SIZES SHALL BE AS SHOWN ON OUTSIDE PLANT PLANS.
2. THE VENDOR SHALL USE ALL MANUFACTURERS' SUGGESTED INSTALLATION PRACTICES IN THE JOINING OF ALL PRE-CAST MATERIAL.
3. STANDARD HARDWARE REQUIRED FOR CONSTRUCTION AND UTILIZATION OF MAINTENANCE HOLES SHALL BE PROVIDED. THIS INCLUDES: RACKING BOLT ASSEMBLIES, VERTICAL SUPPORT BRACKETS, PULLING IRONS, LADDER SUPPORT HOOKS, RACK HOOKS, LADDERS, ETC.
4. AN ORANGE/RED WARNING TAPE SHALL BE INSTALLED 24" ABOVE CONDUITS.
5. INSTALL POLYOLEFIN PULL LINE, 200 POUND TENSILE STRENGTH IN EACH CONDUIT. USE GEORGE-INGRAM CATALOG #9465-02 OR EQUAL.
6. AS APPLICABLE, DO ALL BRACING AND SHORING AS REQUIRED TO SUPPORT OR RETAIN EARTH BANKS AND FACE OF EXCAVATION AND TO SUFFICIENTLY PROTECT WORKERS AND TO PRESERVE FROM DAMAGE ADJACENT BUILDINGS, PAVEMENT AND OTHER EXISTING IMPROVEMENTS. PROVIDE TIMBER CURBING, PLANKING OR SELECT PILING OF ADEQUATE SECTIONS WHEN THIS IS REQUIRED. CONSTRUCT BARRICADES AS REQUIRED FOR SAFETY. EXCAVATIONS SHALL BE CLOSED AND/OR BARRICADED FOR PUBLIC PROTECTION PRIOR TO LEAVING THE JOB SITE AT NIGHT WITH WARNING LIGHTS AND/OR GUARDS.
7. ACCESSIBILITY TO FIRE HYDRANTS, FIRE ALARM BOXES AND PRIVATE DRIVEWAYS SHALL BE MAINTAINED USING TEMPORARY BRIDGES OVER TRENCH AS REQUIRED.
8. THE MEANS TO CARRY STORM WATER AWAY FROM THE WORK SHALL BE PROVIDED AND KEPT FREE FROM ANY OBSTRUCTIONS.
9. IN PREPARING THE TRENCH BED FOR THE CONDUIT INSTALLATION, LEVEL THE TRENCH BED TO FORM AN EVEN BASE. IN SOME CASES, IT MAY BE REQUIRED TO PROVIDE AND/OR LOCATE SOIL TO ESTABLISH AN EVEN BASE. IF, UPON EXCAVATION THE TRENCH BED APPEARS TO BE INCAPABLE OF FIRMLY SUPPORTING THE CONDUIT, THE CONTRACTOR WILL MAKE THE DETERMINATION IF A CONCRETE BASE IS REQUIRED.
10. PVC DUCT SEPARATORS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY FOUR FEET AND FASTENED SECURELY.
11. SAND SLURRY POURS: ALL SAND SLURRY SHALL BE POURED ONTO THE DUCT BANK USING A CHUTE AND EVENLY SPREAD OUT BY HAND TO PROVIDE MINIMUM ENCASEMENT.
12. THE DUCT SYSTEM SHALL CONSIST OF SINGLE, ROUND BORE CONDUIT FOR FUTURE CABLES. THE NUMBER AND SIZES OF DUCTS SHALL BE AS SHOWN ON THE PLANS. DUCT LINES SHALL BE LAID TO A MINIMUM GRADE OF 4" PER 100' SLOPE TOWARD MAINTENANCE HOLES. TERMINATIONS AT MAINTENANCE HOLES AND BUILDINGS SHALL BE WITH END BELLS. PROVIDE PIPE PLUGS AT ALL MAINTENANCE HOLES. ALL CABLES ENTERING DUCTS SHALL BE SEALED ACCORDING TO INDUSTRY STANDARDS SO AS TO PROVIDE A WATER TIGHT SEAL. CHANGES IN DIRECTION OF RUNS SHALL BE ACCOMPLISHED BY USING SPECIAL COUPLINGS OR BENDS MANUFACTURED FOR THIS PURPOSE. DUCT LINES SHALL BE INSTALLED SO THAT THE TOP OF SAND SLURRY IS NOT LESS THAN 30" BELOW FINISHED GRADE OR FINISHED PAVING AT ANY POINT. CONDUIT SHALL BE THOROUGHLY CLEANED BEFORE LAYING. DURING CONSTRUCTION AND AFTER THE DUCT LINE IS COMPLETED, THE ENDS OF CONDUIT SHALL BE PLUGGED TO PREVENT WATER WASHING MUD INTO THE CONDUITS. GROUT ALL CONDUIT ENTRANCES INTO MAINTENANCE HOLE DUCT BANK WINDOWS TO PREVENT SEEPAGE OF WATER AND DEBRIS INTO VAULT. SPECIAL CARE SHALL BE TAKEN TO KEEP THE CONDUITS CLEAN OF CONCRETE OR ANY OTHER SUBSTANCE DURING THE COURSE OF CONSTRUCTION. WHERE IT IS NECESSARY TO CUT THE TAPERED END ON A PIECE OF CONDUIT AT THE SITE, THE CUT SHALL BE MADE WITH A TOOL OR LATHE DESIGNED TO CUT A TAPER OF THE PARTICULAR CONDUIT SHALL BE USED. AFTER THE DUCT LINE HAS BEEN COMPLETED, A MANDREL NOT LESS THAN 12" LONG, HAVING A CROSS SECTION APPROXIMATELY 1/4" INCH LESS THAN THE INSIDE CROSS SECTION OF THE CONDUIT SHALL BE PULLED THROUGH EACH CONDUIT, AFTER WHICH A BRUSH WITH STIFF BRISTLES AND SWABS SHALL BE PULLED THROUGH TO MAKE CERTAIN THAT NO PARTICLES OF SOIL, SAND OR GRAVEL HAVE BEEN LEFT IN THE CONDUIT. THE CONDUIT TYPE SHALL BE TO-8 OR SCHEDULE 40 AND MEET INDUSTRY STANDARDS SUITABLE FOR ENCASEMENT IN SAND SLURRY.
13. EACH SINGLE CONDUIT SHALL BE COMPLETELY ENCASED IN SAND SLURRY AS INDICATED ON PLANS. THE THICKNESS OF SAND SLURRY ENCASEMENT SHOWN ON THE PLANS IS MINIMUM AND MAY BE INCREASED TO FIT THE ACTUAL SHAPE OF THE TRENCH. SPACING BLOCKS SHALL BE MADE OF PLASTIC OR OTHER SUITABLE NON-METALLIC, NON-DECAYING MATERIAL. JOINTS IN CONDUITS SHALL BE STAGGERED AT LEAST 6". CONDUIT SHALL BE JOINED WITH MANUFACTURER'S APPROVED COMPOUND. DUCTS SHALL BE SECURELY ANCHORED TO PREVENT MOVEMENT DURING THE PLACEMENT OF SAND SLURRY.
14. MULTIPLE CONDUITS SHALL BE PLACED IN SAND SLURRY WITH AT LEAST 3" CLEAR AROUND EACH CONDUIT AND MINIMUM 6" AT TOP AS SHOWN ON THE PLANS.
15. FILL MATERIAL: CLEAN SOIL(FROM OFF SITE) AND/OR CHERT, FREE OF ANY ORGANIC MATTER, P.I. LESS THAN 30, TESTED AND APPROVED FOR FILL MATERIAL BEFORE PLACING ON SITE OR BEFORE MOVING INTO POSITION. FILL SHALL EXHIBIT A STANDARD PROCTOR MAXIMUM DRY DENSITY IN EXCESS OF 100 POUNDS PER CUBIC FOOT, AND CONTAIN NO ROCK LARGER THAN 6" AT TOP AS SHOWN ON PLANS. THE COST OF TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. DRAINAGE FILL: WASHED GRAVEL, CRUSHED STONE AND DOWN, WITH FINER AGGREGATE FOR TOPPING.
17. AGGREGATE FILL: WASHED GRAVEL, CRUSHED STONE.



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ELECTRICAL
DETAILS

Sheet Number

E5.2

