FRANCIS MARION UNIVERSITY

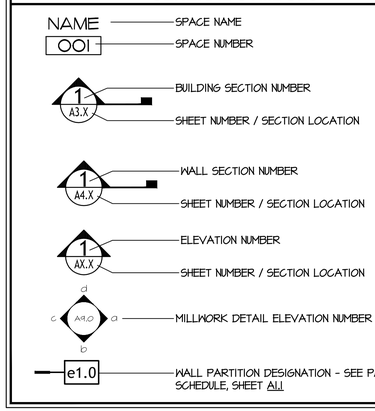
HEWN TIMBER CABINS REFURBISHMENT

FLORENCE, SOUTH CAROLINA

LOCATION MAP

DRAWING SYMBOLS LEGEND

GENERAL SYMBOLS



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INDEX TO PLANS

ABBREVIATIONS

ADJ.	ADJUSTABLE
ADMIN.	ADMINISTRATION
A.F.F.	ABOVE FINISH FLOOR
A.F.F.1	ABOVE FIRST FINISH FLOOR
ALUM.	ALUMINUM
AC. TL.	ACOUSTICAL TILE
@	AT
BLDG.	BUILDING
BLKNG.	BLOCKING
BLK.	BLOCK
BTM.	BOTTOM
BTW.	BETWEEN
BUR	BUILT-UP ROOF
CONC.	CONCRETE
CAB.	CABINET
C.G	CORNER GUARD
C.I.	CAST IRON
C.J.	CONTROL JOINT
CLG.,CEIL.	CEILING
CLO.	CLOSET
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONT.	CONTINUOUS
CONST.	CONSTRUCTION
CP.,CPT.	CARPET
CER. TL.	CERAMIC TILE
℄	CENTERLINE
C.I.	CONTRACTOR INSTALLED
DEPT.	DEPARTMENT
DIA.	DIAMETER
DIM.	DIMENSION
D.S.	DOWNSPOUT
DTL.	DETAIL
DWGS.	DRAWINGS
ELEC.	ELECTRICAL
ELEV.,EL.	ELEVATION
ELEV.	ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
ETC.	EXCETERA
E.W.C.	ELECTRIC WATER COOLER
EXIST.	EXISTING
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	WALL MTD. EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.,FIN.FL.	FINISH FLOOR
F.O.W.	FACE OF WALL
F.O.M.	FACE OF MASONRY
F.R.	FIRE RATED
FIN.	FINISH
FL., FLR.	FLOOR
FT.	FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
GAL.	GALLON
GALV.	GALVANIZED
GR.	GRADE
GYP.BD.	GYPSUM WALL BOARD
GYP.	GYPSUM
HDCP., H/C	HANDICAP
HT.	HEIGHT
HTG.	HEATING
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.V.A.C.	HEATING, VENTILATION, AIR CONDITIONING
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
KIT.	KITCHEN
LAV.	LAVATORY
LIN.FT.	LINEAR FEET
LKR., LOCK.	LOCKER
MAX.	MAXIMUM
M.B., MK.BD.	MARKER BOARD
M.D.S.	METAL DIVIDER STRIP
MECH.	MECHANICAL
MED. CAB.	MEDICAL CABINET
M.E.S.	METAL EDGE STRIP
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTL.	METAL
MFG., MANUF.	MANUFACTURER
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
NON COMB.	NONCOMBUSTIBLE
O.C.	ON CENTER
O.F.	OWNER FURNISHED
O.H.	OVER HEAD
O.I.	OWNER INSTALLED
OPNG	OPENING
P	PAINT
℗	PLATE
PLAS.	PLASTER
PL. LAM.	PLASTIC LAMINATE
PLUMB.	PLUMBING
PLWD.	PLYWOOD
POR.	PORCELAIN
P.T.	PRESSURE TREATED
PVC	POLY VINYL CHLORIDE
P.W.	PASS WINDOW
QU. TL.	QUARRY TILE
R., RAD.	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
R.D.	ROOF DRAIN
REBAR	REINFORCING BAR
RECEP	RECEPTACLE
RECEPT.	RECEPTION
REFR.	REFRIGERATOR
REG.	REGLET
REINF.	REINFORCING, REINFORCED
REV.	REVERSE
REQ'D	REQUIRED
R.F.S.	ROOM FINISH SCHEDULE
RM.	ROOM
R.O.	ROUGH OPENING
R.D.	ROOF DRAIN
R&S	ROD AND SHELF (CLOSET)
S.C.	SAND CLAY
SCHED.	SCHEDULE
S.D.	STORM DRAIN
SEC.	SECRETARY
SIM.	SIMILAR
S.B.	SMART BOARD
S.O.G.	SLAB ON GRADE
SPEC.(S)	SPECIFICATIONS(S)
STRUCT.	STRUCTURAL
S/S, S.S.	STAINLESS STEEL
S.S.	SANITARY SEWER
S.F., SQ. FT.	SQUARE FEET
SUSP.	SUSPENDED
T	TREAD
T.B., TK. BD.	TACK BOARD
TEL.	TELEPHONE
TLT.	TOILET
T.O.M.	TOP OF MASONRY
T.O.W.	TOP OF WALL
TYP.	TYPICAL
V.C.T.	VINYL COMPOSITION TILE
VEST.	VESTIBULE
V.H.R.	VINYL HANDRAIL
V.W.C.	VINYL WALL COVERING
W.C.	WATER CLOSET
W/C	WHEEL CHAIR
W/	WITH
WD.	WOOD
W.H.	WATER HEATER
W.H.R.	WOOD HANDRAIL
W.P.	WATERPROOF(ING)
W.R.	WASTE RECEPTACLE
W.W.M.	WELDED WIRE MESH

COMMON ABBREVIATIONS MAY NOT BE LISTED IN THIS LEGEND. ANY ABBREVIATION CONTAINED IN THE DRAWINGS THAT IS NOT LISTED ABOVE AND IS NOT CONTAINED IN A STANDARD (NON-TECHNICAL) DICTIONARY, SHOULD BE REFERRED TO THE ARCHITECT FOR CLARIFICATION. THE OWNER WILL NOT BE HELD LIABLE FOR ANY COST INCURRED BASED ON AN INCORRECT ASSUMPTION OR INTERPRETATION OF ANY ABBREVIATION.

COMMISSION # 1910 - BID DOCUMENTS

PROJECT NO.
H18-9583-SG-A

REVISIONS

HEWN TIMBER CABINS REFURBISHMENT, FMU
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

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DATE
SEPTEMBER 22, 2022
COMMISSION NO.
2115
DRAWING NO.
CS
SHEET DESCRIPTION
COVER SHEET
DWN: MCP | CHK: DSW

BID DOCUMENTS

F W ARCHITECTS, INC.
ARCHITECTURE ▪ PLANNING ▪ INTERIORS

OVERALL CONSTRUCTION SEQUENCE OF EVENTS:
HEWN TIMBER CABINS REFURBISHMENT –
FRANCIS MARION UNIVERSITY

PHASE 0– PRE–CONSTRUCTION
1. SUBMIT LESS THAN 1 ACRE NOTIFICATION TO FLORENCE COUNTY MS4
2. PRE–CONSTRUCTION MEETING (ON–SITE).
3. NOTIFY FLORENCE COUNTY AND ERVIN ENGINEERING 48 HOURS PRIOR TO BEGINNING ANY LAND–DISTURBING ACTIVITIES.

PHASE 1 PRELIMINARY EROSION CONTROL
1. INSTALLATION OF CONSTRUCTION ENTRANCE(S) AT THE LOCATIONS SHOWN ON SHEET C1.02 PER THE DETAILS SHOWN ON SHEET C6.02.
2. CLEAR AND GRUB SITE ONLY AS REQUIRED FOR INSTALLATION OF PERIMETER CONTROLS.
3. CONTRACTOR TO TAKE EXTREME CARE TO PROTECT EXISTING TREES WHERE POSSIBLE
4. INSTALLATION OF PERIMETER CONTROLS (EG., SILT FENCE).
5. CLEAR AND GRUB SITE WITHIN THE LIMITS SHOWN ON SHEET C1.02
6. STRIP TOPSOIL AND GRAVEL WHERE SHOWN ON C1.04 AND STOCKPILE IN AREAS SHOWN FOR FUTURE USE PER DETAILS SHOWN ON SHEET C6.02.
7. ANY STOCKPILED TOPSOIL AND EXCESS MATERIAL THAT CANNOT BE STORED ON SITE MUST BE STORED OFFSITE OR DISPOSED OF OFFSITE FOR RE–SPREAD AS REQUIRED TO PREVENT LOSS OF TOPSOIL. COORDINATE STOCKPILING WITH GENERAL CONTRACTOR. WHERE EXISTING TOPSOIL IS DEEMED TO BE NOT SUITABLE BY GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BRING IN SUITABLE TOP SOIL AS DETERMINED BY A QUALIFIED GEOTECH. ENGR.
8. OFF SITE STOCK PILE AREAS WILL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
9. COMPLETE CLEARING AND GRUBBING OF THE REMAINDER OF THE SITE AS SHOWN ON SHEET C1.02 (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).

PHASE 2 SITE GRADING AND STORM DRAINAGE
1. INSTALL AND STABILIZE WITH GRASSING AND SEDIMENT TUBES THE DRAINAGE SWALE ON THE NORTH SIDE OF THE BUS PARKING AREA AS SHOWN ON SHEET C3.00.
2. AFTER STRIPPING OPERATION IS COMPLETE AND DRAINAGE SWALE INSTALLED, FINISH GRADING THE SITE AS SHOWN ON SHEET C3.00. AREAS RECEIVING FILL SHOULD BE DENSIFIED TO 95% OF MODIFIED PROCTOR TO A DEPTH OF AT LEAST 12".
3. FOLLOWING DENSIFICATION, THE SUBGRADE IN THE CAR PARKING AND BUS PARKING AREAS SHOULD BE PROOF ROLLED ROUGH GRADE SITE TO SUB–GRADE ELEVATIONS BASED ON GRADING PLANS FOUND ON SHEETS C3.00.
4. PROOF ROLL ALL REQUIRED BASE MATERIAL TO 75,000# WITH REPS. FROM EECO PRESENT
5. INSTALL STONE BASE PER DETAILS, PROOF ROLL ALL REQUIRED STONE TO 75,000# T
6. REPRESENTATIVES OF EECO MUST PRESENT FOR ALL PROOF ROLLS.
7. INSTALL STONE BASE ON ALL PARKING AREAS AS SHOWN ON SHEET C2.00 WITH DETAILS ON SHEET C7.03.
8. CONSTRUCT CONCRETE SIDEWALKS AND ACCESSIBLE PARKING AS SHOWN ON ON SHEET C7.03

PHASE 3 – BUILDING PHASE /FINAL STABILIZATION

1. INSTALL AND COMPACT NEW BUILDING PAD COMPLETE THE BULK OF THE EXTERIOR BUILDING CONSTRUCTION.
2. FINISH THE INSTALLATION OF SIDEWALK AS SHOWN ON C2.00, C3.00, AND C7.03.
3. INSTALL PARKING AREA PAVING AS SHOWN.
4. CONTRACTOR WILL NOT GET FINAL RELEASE FOR THE PROJECT UNTIL THERE IS AN ESTABLISHED GROUND COVER OVER 70% OF THE SITE.
5. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC AS APPROPRIATE.

EROSION CONTROL STANDARD NOTES
1. IF NECESSARY, SLOPES WHICH EXCEED (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

   WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH–DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THOSE PORTIONS OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72–300 ET SEQ. AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FORM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT–LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN AREAS WHERE A 50–FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10–FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND–DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION AND, UNLESS UNFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL
   - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS
   - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE AND
   - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMP's NEED TO BE MODIFIED OR IF ADDITIONAL BMP's ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC's WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE–CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON–SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON–LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON–SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

NOTE: GRASSING AND STABILIZATION: (A) GRADING, SHAPING AND OTHER EARTH MOVING WILL BE COMPLETED TO THE EXTENT NECESSARY TO PERMIT SEEDINGS OR PLANTINGS, EITHER TEMPORARY OR PERMANENT. THE FINISHED GRADE OF SLOPES WITH A SLOPE LENGTH OF MORE THAN FOUR (4) FEET THAT ARE TO BE PLANTED AND MAINTAINED IN GRASSES AND/OR LEGUMES SHALL BE NO STEEPER THAN 2:1. (SLOPE LENGTHS STEEPER THAN 2:1 AND LESS THAN FOUR (4) FEET LONG MAY BE SEEDED.) SIMILAR SLOPES TO BE MAINTAINED IN VINES SHALL BE NO STEEPER THAN 1:1. (B) CONCENTRATION OF WATER THAT WILL CAUSE EXCESSIVE EROSION WHILE VEGETATION IS BEING ESTABLISHED WILL BE DIVERTED TO A SAFE OUTLET. STRUCTURES USED TO DIVERT WATER OR PROVIDE ADDITIONAL PROTECTION TO AN AREA MAY BE EITHER PERMANENT OR TEMPORARY ACCORDING TO THE NEEDS OF THE SITE; HOWEVER SUCH STRUCTURES MUST CONFORM TO THE APPROPRIATE STANDARDS AND SPECIFICATIONS. (C) STONES, STUMPS, AND TRASH THAT WILL INTERFERE WITH SEEDBED PREPARATION, PLANTINGS, OR THE PLANNED USE AND MAINTENANCE OF THE AREA WILL BE REMOVED. ALL SEEDING, MULCHING, AND OTHER STABILIZATION EFFORTS SHALL BE IN KEEPING WITH SECTION 503 AND 880 OF THE SPECIFICATIONS.

GENERAL NOTES:
1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO NOTIFY ALL UTILITIES BEFORE DIGGING.
3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS BEFORE DIGGING.
4. CONTRACTOR TO MAINTAIN 1'–6" MINIMUM CLEARANCE VERTICALLY OR 10'–0" MINIMUM CLEARANCE HORIZONTALLY BETWEEN WASTEWATER LINES AND ANY EXISTING AND/OR NEW WATER LINES.
5. ALL AREAS DISTURBED BY CONSTRUCTION TO BE GRASSED PER SPECIFICATIONS.
6. FIELD VERIFY ALL DIMENSIONS
7. OWNER SHALL OBTAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAKE RECOMMENDATIONS ON SUITABLE FILL MATERIAL AND PROPER COMPACTION.
8. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ALL UTILITIES (BOTH ABOVE AND BELOW GROUND) THAT ARE DAMAGED BY CONSTRUCTION.
9. SEE DETAIL SHEETS FOR TYPICAL WATER DETAILS AND SEWER DETAILS.
10. SEE SHEET C7.02 FOR TYPICAL STORM DRAIN DETAILS
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION AND RELOCATION OF ALL EXISTING UTILITIES IN THE ROW AS REQUIRED FOR THE INSTALLATION OF ROAD WIDENING AND TURN LANES.
12. UTILITY RELOCATION IN THE ROW WILL BE A PART OR THE DIVISION 2 CONTRACT.
13. ALL DRIVEWAYS AND MAILBOXES IMPACTED BY ROAD WIDENING WILL BE REWORKED BY THE CONTRACTOR TO SCDOT STANDARDS. THIS WORK WILL BE INCLUDED IN DIVISION 2 OF THE CONTRACT.
14. CONTRACTOR TO INSTALL SILT FENCING AND EROSION CONTROL MEASURES PER SHEET 06.02 AS DIRECTED BY SCDOT.

ENGINEER'S CERTIFICATION STATEMENT
I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM.
FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72–300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

WILLIAM C. ERVIN, JR., P.E.
09/22/2022

GRASSING

NOTE: ALL AREAS OF THE SITE SHALL BE HYDROSEEDED PER MIX SPECS LISTED BELOW FOR EROSION CONTROL PURPOSES UNLESS SOD IS OTHERWISE SPECIFIED ON THE LANDSCAPING PLANS. STORM WATER PONDS WILL BE GRASSED USING GRASS IMPREGNATED EROSION CONTROL BLANKETS WITHIN 15 DAYS OF GRADING.

GRASSING WORK SHALL CONSIST OF SEEDING, FERTILIZING, LIMING WHEN SPECIFIED, MULCHING, AND APPLYING NITROGEN WHEN SPECIFIED ON ALL AREAS SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER PER SPECIFICATIONS.

LIME AND FERTILIZER, WHEN CALLED FOR, SHALL BE SPREAD UNIFORMLY OVER THE DESIGNATED AREAS AND SHALL BE THOROUGHLY MIXED WITH THE SOIL TO A DEPTH OF APPROXIMATELY 2" PRIOR TO SEEDING. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE FOR THE INITIAL APPLICATION UNLESS OTHERWISE DIRECTED.

LIME SHALL BE APPLIED AS DIRECTED BY THE ENGINEER. UNLESS OTHERWISE PROVIDED, LIME WILL NOT BE APPLIED FOR TEMPORARY SEEDING. THE CONTRACTOR WILL BE REQUIRED TO DO ALL MAINTENANCE NECESSARY TO KEEP SEEDED AREAS IN A SATISFACTORY CONDITION UNTIL THE WORK IS FINALLY ACCEPTED.

SEEDING SCHEDULES FOR PERMANENT VEGETATION -- LOWER STATE

SCH. NO.	COMMON NAME OF SEED	RURAL RATE	URBAN RATE(1)	PLANTING DATES
3 SEE #5	COMMON BERMUDA (HULLED) (3)	30	30	MARCH 1 –
	WEEPING LOVEGRASS (2)	10	10	"
	SERICEA LESPEDEZA (SCARIFIED) (2)	50 (2)	50 (2)	"
4 SEE #5	COMMON BERMUDA (UNHULLED) (3)	40	40	AUG. 15 –
	WEEPING LOVEGRASS (2)	10	10	"
	SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	80	0	"
	RESEEDING CRIMSON CLOVER (4)	20	0	"
	RYE GRAIN	20	0	"

NOTES:
1. INCLUDES RURAL AREAS ADJACENT TO WELL–DEVELOPED LAWNS
2. NOT REQUIRED ON SHOULDERS, MEDIANS, ETC., AND SLOPES UNDER 5 FEET IN HEIGHT.
3. GIANT BERMUDA SEED, INCLUDING NK–37, SHALL NOT BE USED.
4. RESEEDING CRIMSON CLOVER SHALL BE INOCULATED IN ACCORDANCE WITH SUBSECTION 810.05 (SEE SPECIFICATION BOOK). DO NOT PLANT CLOVER IN MEDIANS OR IN RURAL AREAS ADJACENT TO WELL–DEVELOPED LAWNS.
5. PENSACOLA BAHAIA SHALL BE ALLOWED ONLY AS SHOWN IN SEEDING SCHEDULES 3 AND 4 AT THE RATE OF 50 POUNDS PER ACRE ONLY WHEN SEEDING PIT AREAS WHICH ARE GOVERNED BY THE SOUTH CAROLINA MINING ACT. OTHERWISE, DO NOT INCLUDE BAHIA SEED IN SEED MIX. THE UPPER STATE SHALL BE CONSIDERED AS CONSISTING OF ALL COUNTIES WEST OF THE COUNTIES OF AIKEN, LEXINGTON, RICHLAND, KERSHAW AND CHESTERFIELD. THE LOWER STATE SHALL CONSIST OF THE ABOVE CITED COUNTIES AND ALL COUNTIES EAST. THE CONTRACTOR MAY INCLUDE QUANTITIES OF RYE GRAIN AND MILLET IN SCHEDULE 1 AND 3 IN ORDER TO ESTABLISH QUICK GROUND COVER FOR EROSION CONTROL PURPOSES.

SEEDING SCHEDULES FOR TEMPORARY VEGETATION -- UPPER AND LOWER STATE

SCH. NO.	COMMON NAME OF SEED	RATE (lbs/acre)	PLANTING DATES
1	ANNUAL SUDAN GRASS (SWEET OR TIFT)	40	APRIL 1 – AUG. 15
2	BROWN TOP MILLET	50	APRIL 1 – AUG. 15
3	RYE GRAIN	55	AUG. 16 – MAR. 31

OAT GRAIN IS TO BE ADDED TO ALL SCHEDULES, IF SEEDING DATE IS BETWEEN MARCH1 AND APRIL 16, AT THE RATE OF 10 POUNDS PER ACRE.

NOTE: ALL EXISTING DRIVEWAYS TO BE RESURFACED TO EDGE OF R/W AND TIED IN SMOOTHLY WITH EXISTING DRIVES

NOTE: LANE CLOSURES ARE REQUIRED FOR ALL WORK WITHIN ONE FOOT OF THE TRAVEL WAY. SHOULDER CLOSURES ARE REQUIRED FOR ALL WORK FROM ONE FOOT TO FIFTEEN FEET FROM THE TRAVEL WAY.

GENERAL SITE GRADING NOTES
1. CONTRACTOR VERIFY PROPERTY CORNERS AND TOPO BEFORE ANY CONSTRUCTION IS BEGUN.
2. CONTRACTOR TO NOTIFY THE ENGINEER FOR A REVIEW SHOULD ANY DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS.
3. EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. PROOF ROLLING AND COMPACTION TESTING SHALL BE ACCOMPLISHED IN THE FIELD TO TEST ALL AREAS. THE OWNER SHALL RETAIN THE SERVICES OF A TESTING COMPANY FOR THIS WORK.
4. THE GRADING CONTRACTOR SHALL CONFORM TO ELEVATIONS AND AND DIMENSIONS SHOWN ON THE PLANS WITHIN A CLEARANCE OF PLUS OR MINUS 0.10 FEET.
5. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS NOTED ON THE DRAWINGS AND SHALL CONFORM TO THE STATE SPECIFICATIONS. JOINTS SHALL BE TONGUE AND GROOVE WITH MASTIC JOINT MATERIAL.
6. ALL WATER LINES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. ALL PIPES, VALVES AND FITTINGS SHALL COMPLY WITH AWWA STANDARDS, ALL LOCAL CODES AND ORDINANCES. PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED. WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED AS REQUIRED.
7. ALL UTILITY TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FUTURE PAVEMENT AND STRUCTURES.
8. THE GRADING CONTRACTOR SHALL INCLUDE THE COST OF ALL CUT AND FILL NECESSARY TO BALANCE THE EARTHWORK ON THE SITE. THE GRADING CONTRACTOR SHALL INCLUDE THE COST OF WETTING/DRYING OF SOILS NECESSARY TO OBTAIN COMPACTION PER SPECIFICATIONS.
9. THE SEQUENCE OF WORK SHALL CONFORM TO THE EROSION CONTROL NARRATIVE.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REP. WHEN INSTRUCTIONS FROM REGULATORY AGENCIES ARE RECEIVED AND COMPLY WITH INSTRUCTIONS AS DIRECTED BY THE OWNER'S REP.
11. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL AT ONCE REPORT ANY INCONSISTENCIES OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOT PERFORM ANY WORK ON ANY UTILITIES OR IN PUBLIC RIGHT–OF–WAY UNTIL HE HAS OBTAINED COPIES OF ALL NECESSARY ENCROACHMENT AND CONSTRUCTION PERMITS.
12. AT COMPLETION OF PROJECT, INTERNAL DRAINAGE SYSTEM WILL BE PRIVATELY MAINTAINED.
13. SPOT ELEVATIONS SHOWN ON PLANS REFER TO B/CURB EXCEPT WHERE ACCESSIBLE RAMPS TIE TO PAVING AND AT LOADING DOCK AREAS.
14. ALL SIDEWALKS ARE TO HAVE A 2% CROSS SLOPE.
15. FINISHED GRADE AROUND THE PERIMETER OF THE NEW BUILDING IS TO BE 6" BELOW FINISHED FLOOR ELEVATION.

REVISIONS

FRANCIS MARION UNIVERSITY
HEWN TIMBER CABINS
REFURBISHMENT
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER
09/22/2022
10821
WILLIAM C. ERVIN

SOUTH CAROLINA
ERVIN ENGINEERING COMPANY INC.
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CERTIFICATE OF AUTHORIZATION

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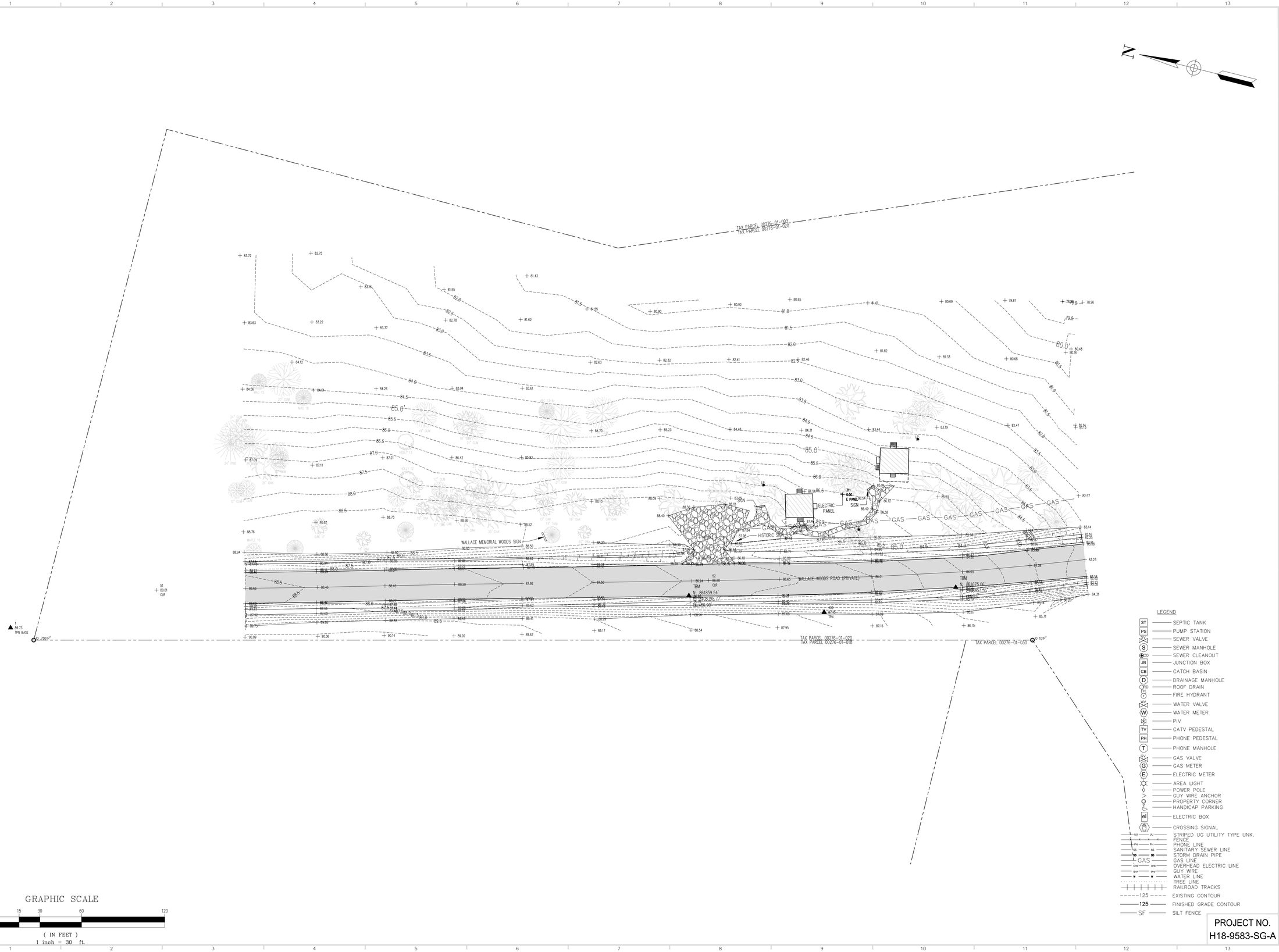
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

DATE
SEPTEMBER 22, 2022
COMMISSION NO.
2115
DRAWING NO.
C0.01
SHEET DESCRIPTION
NOTES
DWN: WCE CHK: JSE

BID DOCUMENTS

PROJECT NO.
H18-9583-SG-A



LEGEND

- ST — SEPTIC TANK
- PS — PUMP STATION
- SV — SEWER VALVE
- S — SEWER MANHOLE
- SCO — SEWER CLEANOUT
- JB — JUNCTION BOX
- CB — CATCH BASIN
- D — DRAINAGE MANHOLE
- RD — ROOF DRAIN
- FH — FIRE HYDRANT
- WV — WATER VALVE
- W — WATER METER
- PIV — PIV
- TV — CATV PEDESTAL
- PH — PHONE PEDESTAL
- T — PHONE MANHOLE
- GV — GAS VALVE
- G — GAS METER
- E — ELECTRIC METER
- AREA LIGHT
- POWER POLE
- GUY WIRE ANCHOR
- PROPERTY CORNER
- HANDICAP PARKING
- el — ELECTRIC BOX
- CROSSING SIGNAL
- STRIPED UG UTILITY TYPE UNK.
- FENCE
- PHONE LINE
- SANITARY SEWER LINE
- STORM DRAIN PIPE
- GAS LINE
- OVERHEAD ELECTRIC LINE
- GUY WIRE
- WATER LINE
- TREE LINE
- RAILROAD TRACKS
- 125 — EXISTING CONTOUR
- 125 — FINISHED GRADE CONTOUR
- SF — SILT FENCE

PROJECT NO.
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REVISIONS

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FLORENCE, SOUTH CAROLINA

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JAMES C. ERVIN

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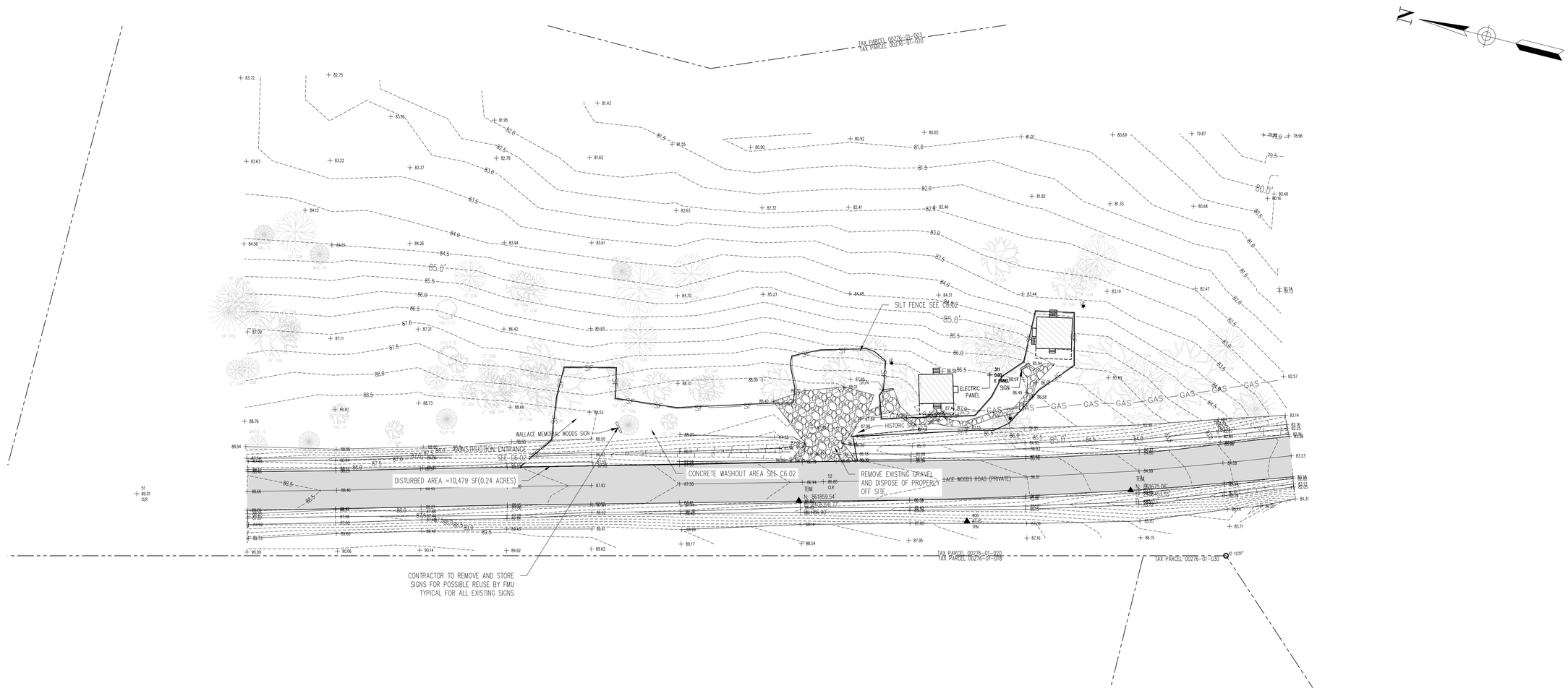

GENERAL NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO NOTIFY ALL UTILITIES BEFORE DIGGING.
3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS BEFORE DIGGING.
4. CONTRACTOR TO MAINTAIN 1'-6" MINIMUM CLEARANCE VERTICALLY OR 10'-0" MINIMUM CLEARANCE HORIZONTALLY BETWEEN WASTEWATER LINES AND ANY EXISTING AND/OR NEW WATER LINES.
5. ALL AREAS DISTURBED BY CONSTRUCTION TO BE GRASSED PER SPECIFICATIONS.
6. FIELD VERIFY ALL DIMENSIONS
7. OWNER SHALL OBTAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAKE RECOMMENDATIONS ON SUITABLE FILL MATERIAL AND PROPER COMPACTION.
8. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ALL UTILITIES (BOTH ABOVE AND BELOW GROUND) THAT ARE DAMAGED BY CONSTRUCTION.
9. SEE DETAIL SHEETS FOR TYPICAL WATER DETAILS AND SEWER DETAILS.
10. SEE SHEET C7.02 FOR TYPICAL STORM DRAIN DETAILS
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION AND RELOCATION OF ALL EXISTING UTILITIES IN THE ROW AS REQUIRED FOR THE INSTALLATION OF ROAD WIDENING AND TURN LANES.
12. UTILITY RELOCATION IN THE ROW WILL BE A PART OR THE DIVISION 2 CONTRACT.
13. ALL DRIVEWAYS AND MAILBOXES IMPACTED BY ROAD WIDENING WILL BE REWORKED BY THE CONTRACTOR TO SCDOT STANDARDS. THIS WORK WILL BE INCLUDED IN DIVISION 2 OF THE CONTRACT.
14. CONTRACTOR TO INSTALL SILT FENCING AND EROSION CONTROL MEASURES PER SHEET C6.02 AS DIRECTED BY SCDOT.

OVERALL CONSTRUCTION SEQUENCE OF EVENTS:
HEWN TIMBER CABINS REFURISHMENT –
FRANCIS MARION UNIVERSITY

PHASE 0– PRE–CONSTRUCTION

1. SUBMIT LESS THAN 1 ACRE NOTIFICATION TO FLORENCE COUNTY MS4
2. PRE–CONSTRUCTION MEETING (ON–SITE).
3. NOTIFY FLORENCE COUNTY AND ERVIN ENGINEERING 48 HOURS PRIOR TO BEGINNING ANY LAND–DISTURBING ACTIVITIES.

PHASE 1 PRELIMINARY EROSION CONTROL

1. INSTALLATION OF CONSTRUCTION ENTRANCE(S) AT THE LOCATIONS SHOWN ON SHEET C1.02 PER THE DETAILS SHOWN ON SHEET C6.02.
2. CLEAR AND GRUB SITE ONLY AS REQUIRED FOR INSTALLATION OF PERIMETER CONTROLS.
3. CONTRACTOR TO TAKE EXTREME CARE TO PROTECT EXISTING TREES WHERE POSSIBLE
4. INSTALLATION OF PERIMETER CONTROLS (EG., SILT FENCE).
5. CLEAR AND GRUB SITE WITHIN THE LIMITS SHOWN ON SHEET C1.02
6. STRIP TOPSOIL AND GRAVEL WHERE SHOWN ON C1.04 AND STOCKPILE IN AREAS SHOWN FOR FUTURE USE PER DETAILS SHOWN ON SHEET C6.02.
7. ANY STOCKPILED TOPSOIL AND EXCESS MATERIAL THAT CANNOT BE STORED ON SITE MUST BE STORED OFFSITE OR DISPOSED OF OFFSITE FOR RE–SPREAD AS REQUIRED TO PREVENT LOSS OF TOPSOIL. COORDINATE STOCKPILING WITH GENERAL CONTRACTOR. WHERE EXISTING TOPSOIL IS DEEMED TO BE NOT SUITABLE BY GEOTECHNICAL ENGINEER, CONTRACTOR SHALL BRING IN SUITABLE TOP SOIL AS DETERMINED BY A QUALIFIED GEOTECH. ENGR.
8. OFF SITE STOCK PILE AREAS WILL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
9. COMPLETE CLEARING AND GRUBBING OF THE REMAINDER OF THE SITE AS SHOWN ON SHEET C1.02 (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).

PHASE 2 SITE GRADING AND STORM DRAINAGE

1. INSTALL AND STABILIZE WITH GRASSING AND SEDIMENT TUBES THE DRAINAGE SWALE ON THE NORTH SIDE OF THE BUS PARKING AREA AS SHOWN ON SHEET C3.00.
2. AFTER STRIPPING OPERATION IS COMPLETE AND DRAINAGE SWALE INSTALLED, FINISH GRADING THE SITE AS SHOWN ON SHEET C3.00. AREAS RECEIVING FILL SHOULD BE DENSIFIED TO 95% OF MODIFIED PROCTOR TO A DEPTH OF AT LEAST 12".
3. FOLLOWING DENSIFICATION, THE SUBGRADE IN THE CAR PARKING AND BUS PARKING AREAS SHOULD BE PROOF ROLLED. ROUGH GRADE SITE TO SUB–GRADE ELEVATIONS BASED ON GRADING PLANS FOUND ON SHEETS C3.00.
4. PROOF ROLL ALL REQUIRED BASE MATERIAL TO 75,000# WITH REPS. FROM EECO PRESENT
5. INSTALL STONE BASE PER DETAILS, PROOF ROLL ALL REQUIRED STONE TO 75,000# T.
6. REPRESENTATIVES OF EECO MUST PRESENT FOR ALL PROOF ROLLS.
7. INSTALL STONE BASE ON ALL PARKING AREAS AS SHOWN ON SHEET C2.00 WITH DETAILS ON SHEET C7.03.
8. CONSTRUCT CONCRETE SIDEWALKS AND ACCESSIBLE PARKING AS SHOWN ON ON SHEET C7.03

PHASE 3 – BUILDING PHASE /FINAL STABILIZATION

1. INSTALL AND COMPACT NEW BUILDING PAD COMPLETE THE BULK OF THE EXTERIOR BUILDING CONSTRUCTION.
2. FINISH THE INSTALLATION OF SIDEWALK AS SHOWN ON C2.00, C3.00, AND C7.03.
3. INSTALL PARKING AREA PAVING AS SHOWN.
4. CONTRACTOR WILL NOT GET FINAL RELEASE FOR THE PROJECT UNTIL THERE IS AN ESTABLISHED GROUND COVER OVER 70% OF THE SITE.
5. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC AS APPROPRIATE.

GRAPHIC SCALE

0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

PROJECT NO.
H18-9583-SG-A

REVISIONS

FRANCIS MARION UNIVERSITY
HEWN TIMBER CABINS
REFURBISHMENT
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FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER
09/22/2022
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WILLIAM C ERVIN

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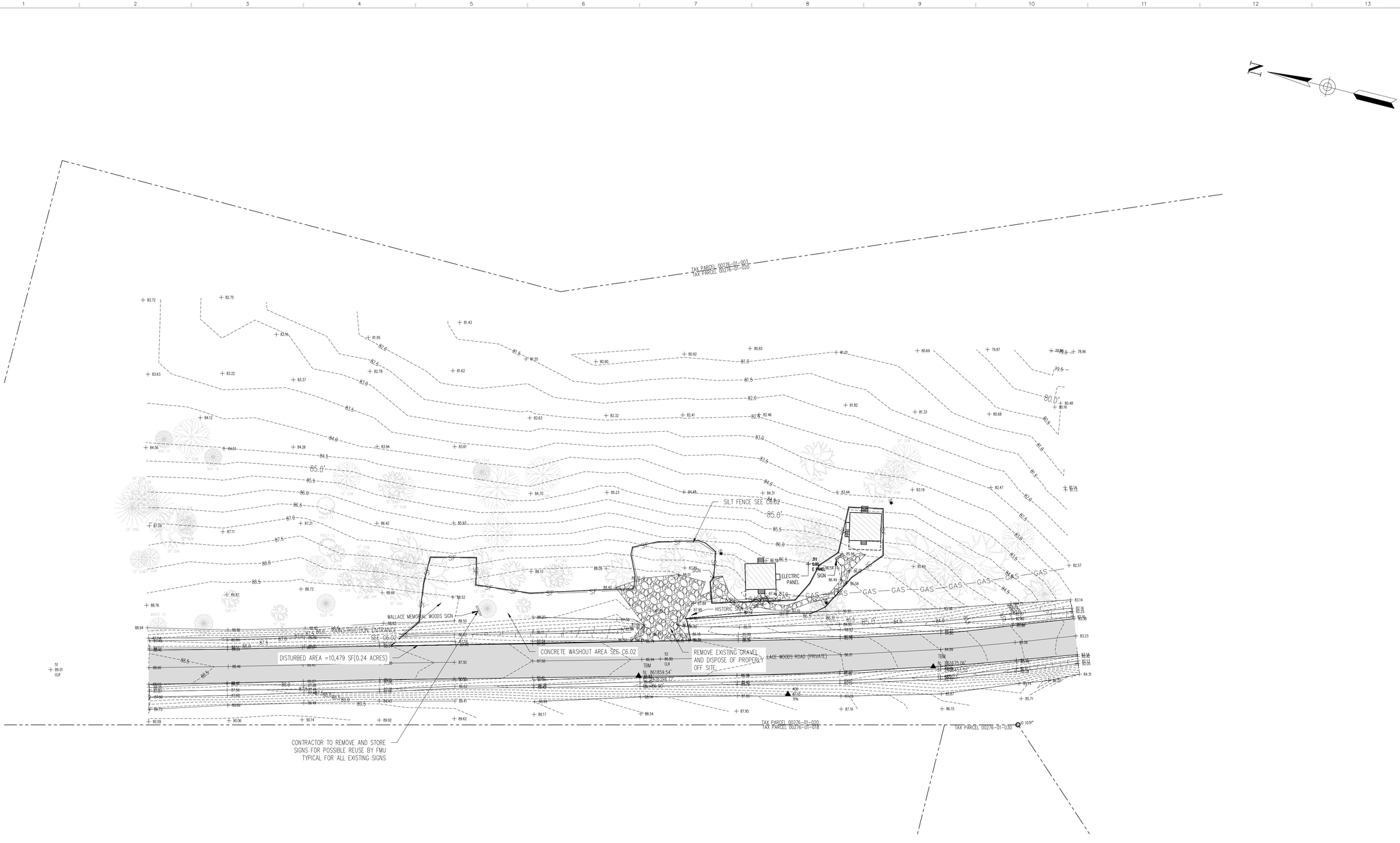
2115
DRAWING NO.
C1.01
SHEET DESCRIPTION
EROSION CONTROL PLAN
DWN: WCE CHK: JSE

BID DOCUMENTS



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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C1.04

SHEET DESCRIPTION
DEMOLITION PLAN

DWN: WCE | CHK: JSE

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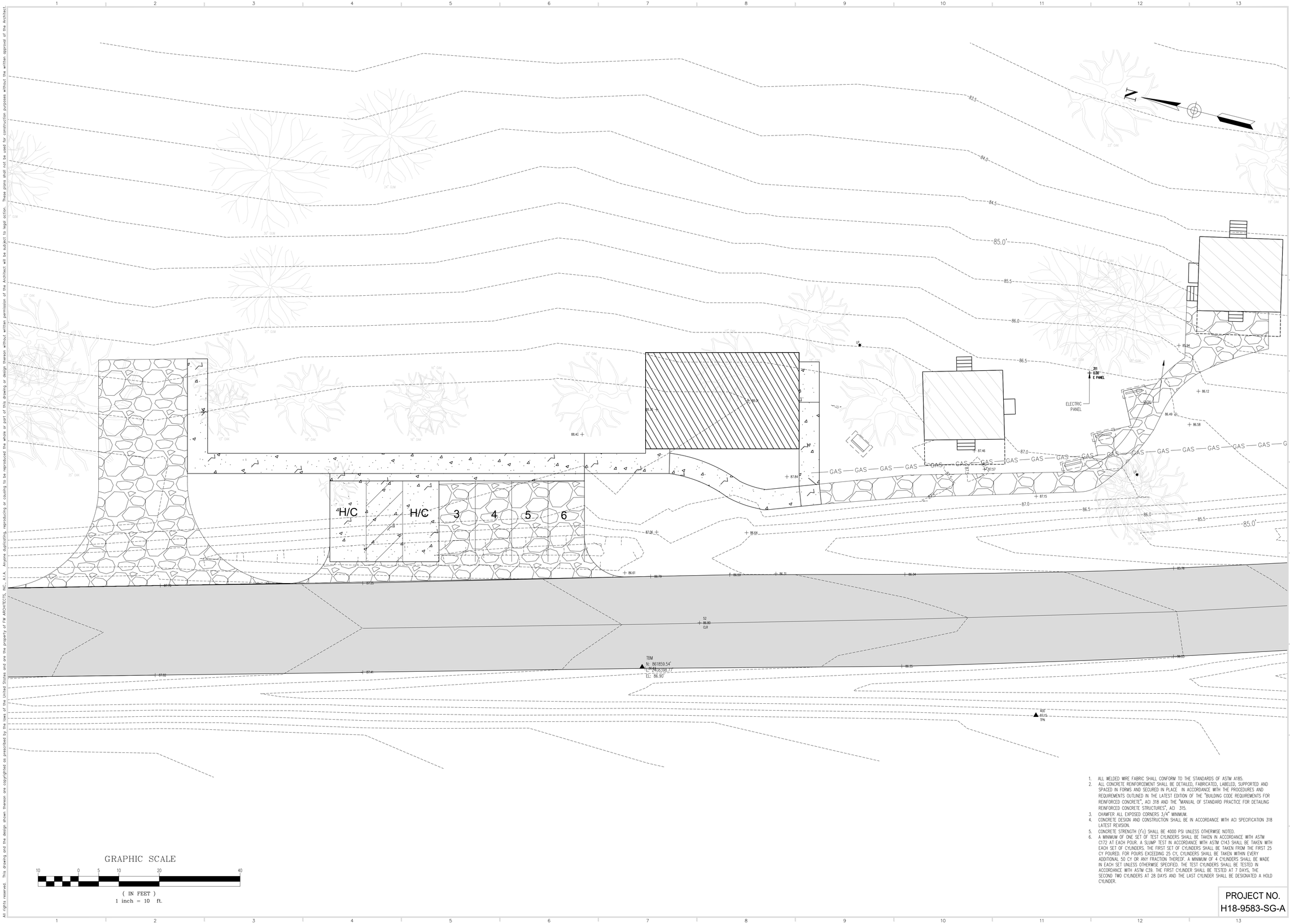
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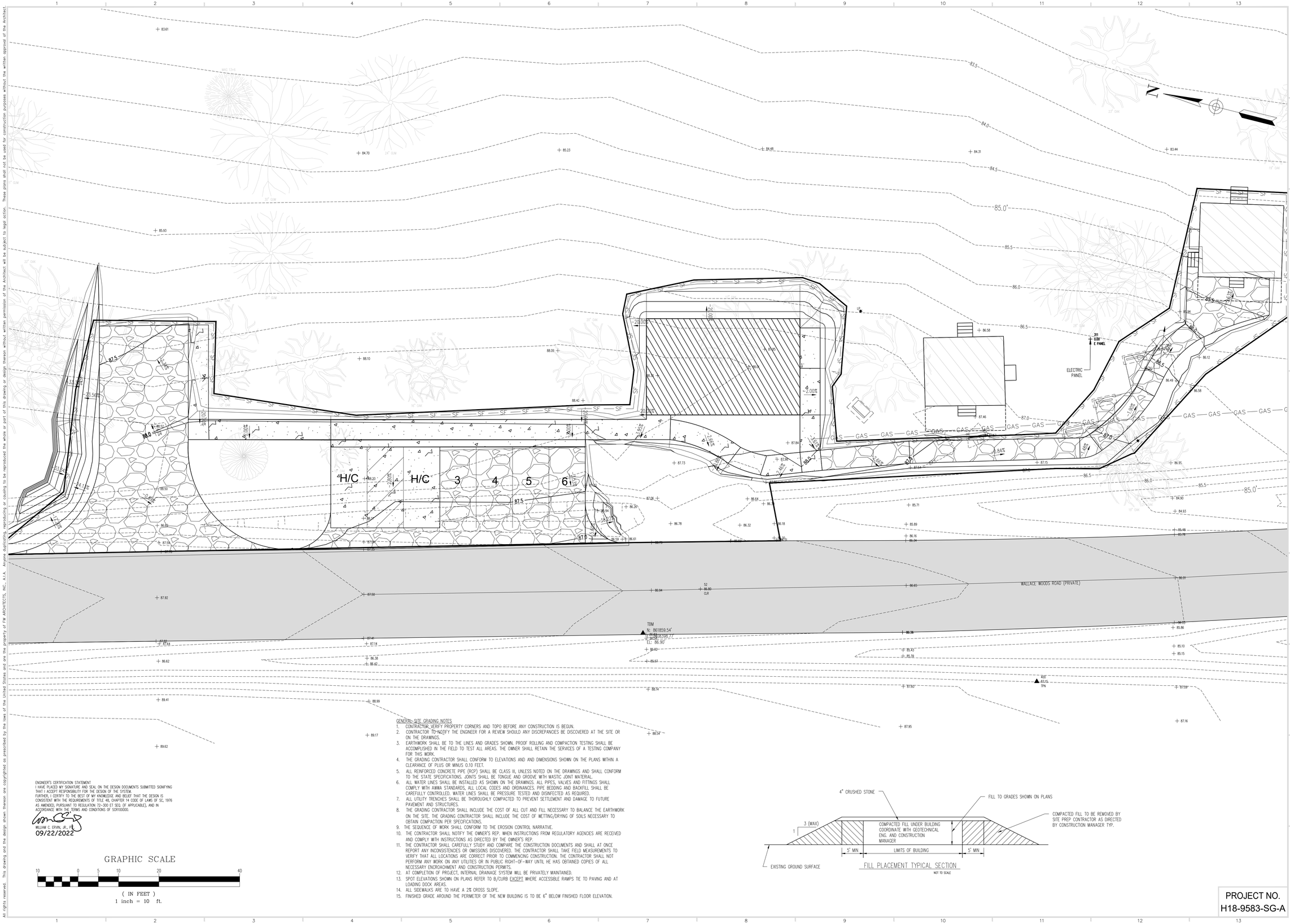
311
0.00
E PANEL
TBM
N: 861859.54'
E: 1295195.77'
ELE. 86.90'
BM
83.15
TPN
GAS — GAS — GAS —



ENGINEER'S CERTIFICATION STATEMENT
I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM.
FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

WILLIAM C. ERVIN, JR. PE
09/22/2022

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

GENERAL SITE GRADING NOTES

1. CONTRACTOR VERIFY PROPERTY CORNERS AND TOPO BEFORE ANY CONSTRUCTION IS BEGUN.
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FILL PLACEMENT TYPICAL SECTION
NOT TO SCALE

PROJECT NO.
H18-9583-SG-A

REVISIONS

FRANCIS MARION UNIVERSITY
HEWN TIMBER CABINS
REFURBISHMENT
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER
09/22/2022
WILLIAM C. ERVIN, JR.
10820

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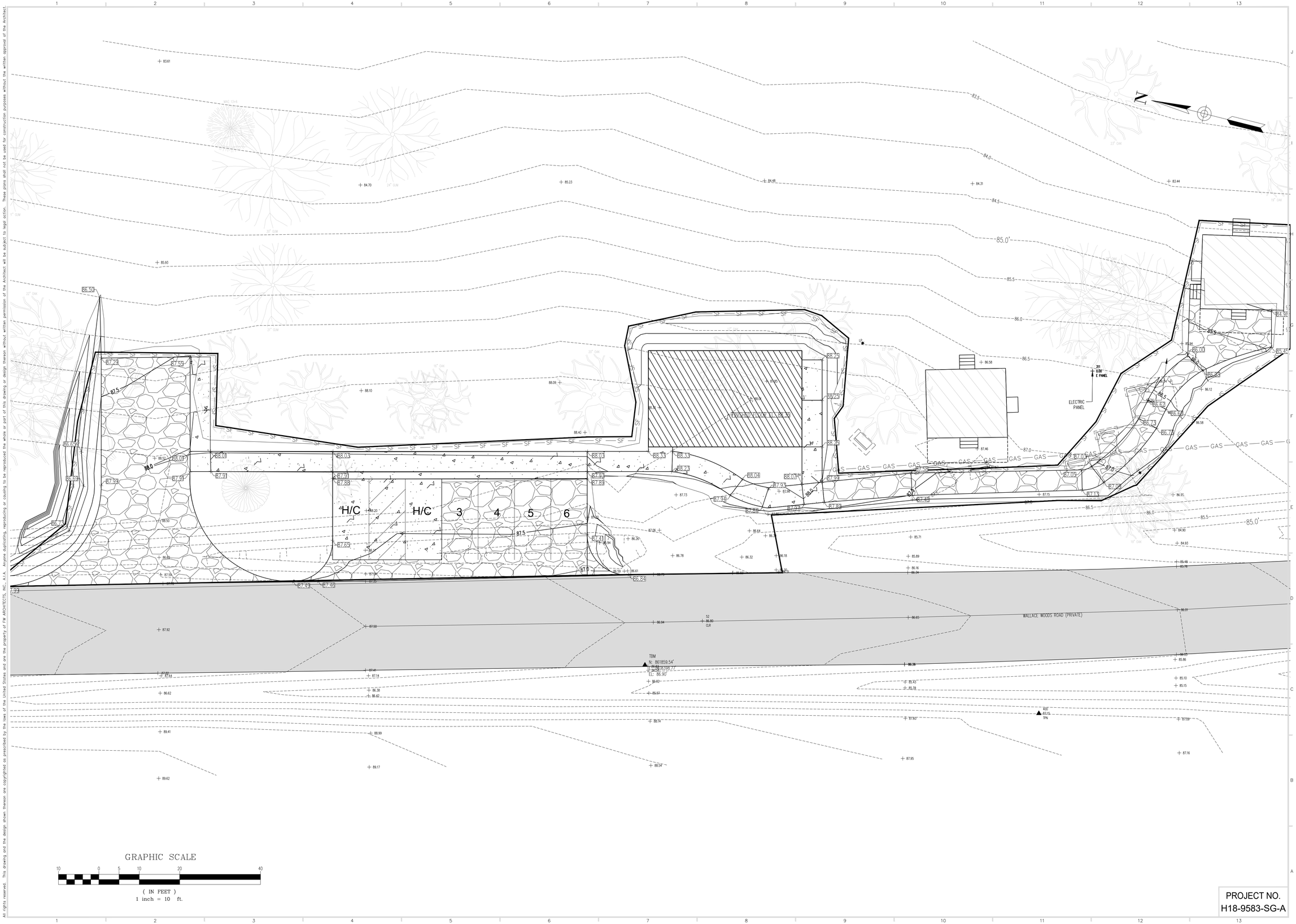

REVISIONS

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HEWN TIMBER CABINS
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FLORENCE, SOUTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER
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WILLIAM C. ERVIN

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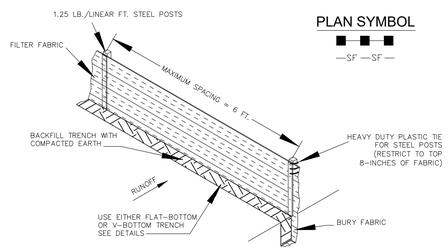
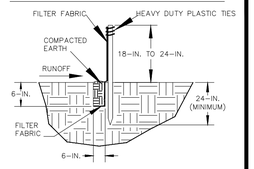
SILT FENCE INSTALLATION



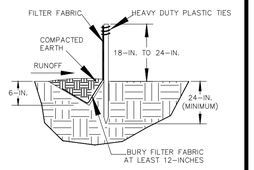
PLAN SYMBOL

—SF —SF —

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



SILT FENCE - GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap;
   - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
   - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE - POST REQUIREMENTS

1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE - FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36-inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE - INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

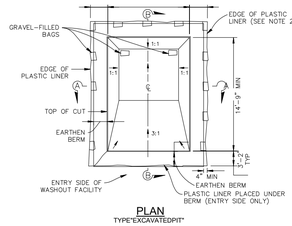
South Carolina Department of Health and Environmental Control

SILT FENCE

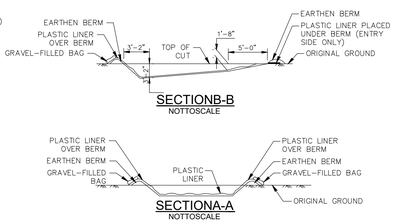
STANDARD DRAWING NO. SC-03 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

EXCAVATED PIT CONCRETE WASHOUT



PLAN
TYPE"EXCAVATEDPIT"

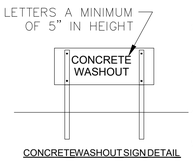


SECTIONB-B
NOTTOSCALE

SECTIONA-A
NOTTOSCALE

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.



CONCRETEWASHOUT SIGN DETAIL

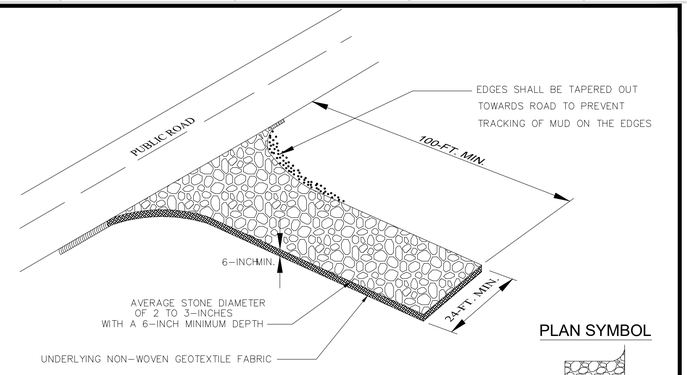
South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT

EXCAVATED PIT

STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

PLAN SYMBOL

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

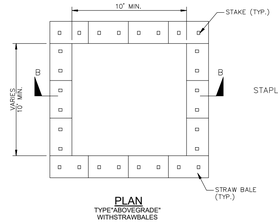
South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

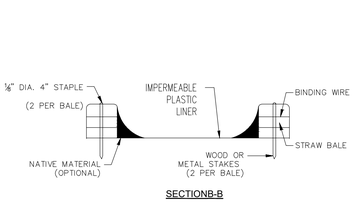
STANDARD DRAWING NO. SC-06 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

STRAW BALE BARRIER CONCRETE WASHOUT



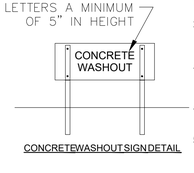
PLAN
TYPE"ABOVEGRADE" WITHSTRAWBALES



SECTIONB-B

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.



CONCRETEWASHOUT SIGN DETAIL

South Carolina Department of Health and Environmental Control

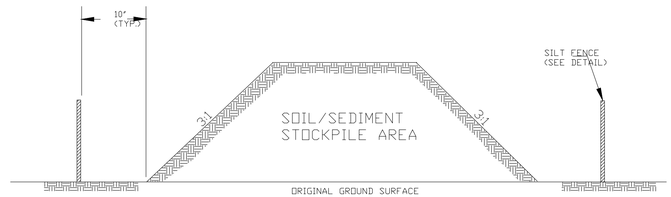
CONCRETE WASHOUT

STRAW BALES OR ABOVE GROUND

STANDARD DRAWING NO. RC-07 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014

TEMPORARY STOCKPILE AREA



NOTES:

1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOP THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Control

TEMPORARY STOCKPILE

STANDARD DRAWING NO. SC-15 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

REVISIONS

FRANCIS MARION UNIVERSITY
HEWN TIMBER CABINS
REFURBISHMENT
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER 09/22/2022 10821 JAMES C. ERVIN

SOUTH CAROLINA ERVIN ENGINEERING COMPANY INC. NO. C00053 CERTIFICATE OF AUTHORIZATION

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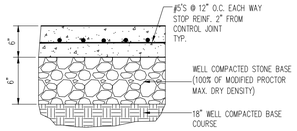
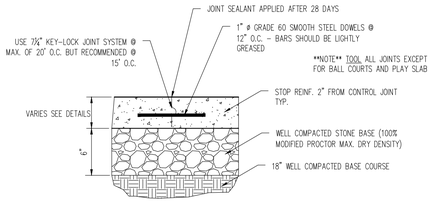
DATE
SEPTEMBER 22, 2022
COMMISSION NO.
2115
DRAWING NO.
C6.02
SHEET DESCRIPTION
EROSION CONTROL
DWN: WCE CHK: JSE

PROJECT NO.
H18-9583-SG-A

BID DOCUMENTS

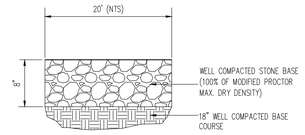


CONCRETE PAVING AT ACCESSIBLE PARKING



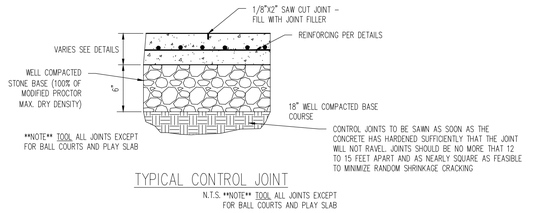
CONCRETE CONSTRUCTION JOINT DETAIL

N.T.S.



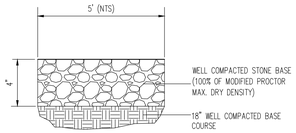
FOR USE IN BUS AND CAR PARKING

N.T.S.



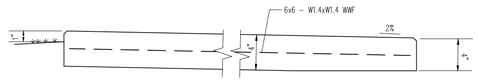
TYPICAL CONTROL JOINT

N.T.S. **NOTE** TOOL ALL JOINTS EXCEPT FOR BALL COURTS AND PLAY SLAB



FOR USE AS GRAVEL SIDEWALK

N.T.S.

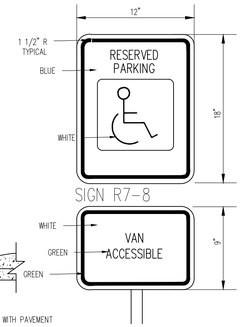


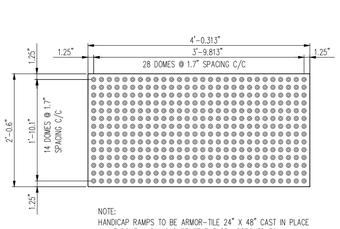
1. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
2. SIDEWALKS TO BE PLACED ON WELL COMPACTED FILL.
3. CONTRACTOR TO PROVIDE 8" TURNDOWNS ON ALL EDGES ABUTTING ASPHALT PAVING.

CONCRETE SIDEWALK DETAIL

N.T.S.

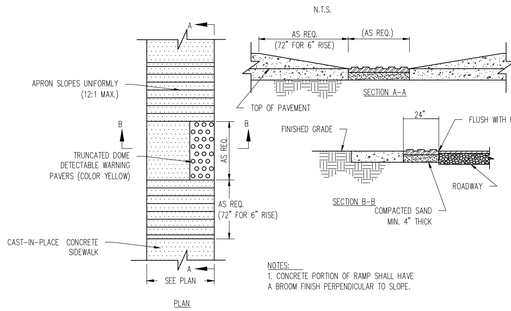
1. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
2. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.
3. CHAMFER ALL EXPOSED CORNERS 3/4" MINIMUM.
4. CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI SPECIFICATION 318 LATEST REVISION.
5. CONCRETE STRENGTH (f'c) SHALL BE 4000 PSI UNLESS OTHERWISE NOTED.
6. A MINIMUM OF ONE SET OF TEST CYLINDERS SHALL BE TAKEN IN ACCORDANCE WITH ASTM C172 AT EACH POUR. A SLUMP TEST IN ACCORDANCE WITH ASTM C143 SHALL BE TAKEN WITH EACH SET OF CYLINDERS. THE FIRST SET OF CYLINDERS SHALL BE TAKEN FROM THE FIRST 25 CY POURED. FOR POURS EXCEEDING 25 CY, CYLINDERS SHALL BE TAKEN WITHIN EVERY ADDITIONAL 50 CY OR ANY FRACTION THEREOF. A MINIMUM OF 4 CYLINDERS SHALL BE MADE IN EACH SET UNLESS OTHERWISE SPECIFIED. THE TEST CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH ASTM C39. THE FIRST CYLINDER SHALL BE TESTED AT 7 DAYS, THE SECOND TWO CYLINDERS AT 28 DAYS AND THE LAST CYLINDER SHALL BE DESIGNATED A HOLD CYLINDER.



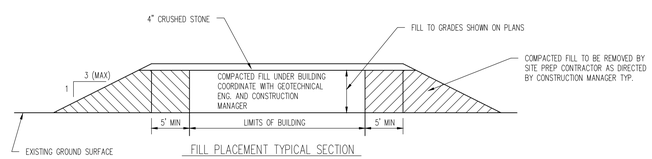


PLAN VIEW

DETECTABLE WARNING SURFACE TILE DETAIL



SIDEWALK RAMP WITH DETECTABLE WARNING DEVICE



FILL PLACEMENT TYPICAL SECTION

NOT TO SCALE

REVISIONS

FRANCIS MARION UNIVERSITY
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SOUTH CAROLINA PROFESSIONAL ENGINEER WILLIAM C ERVIN 10821
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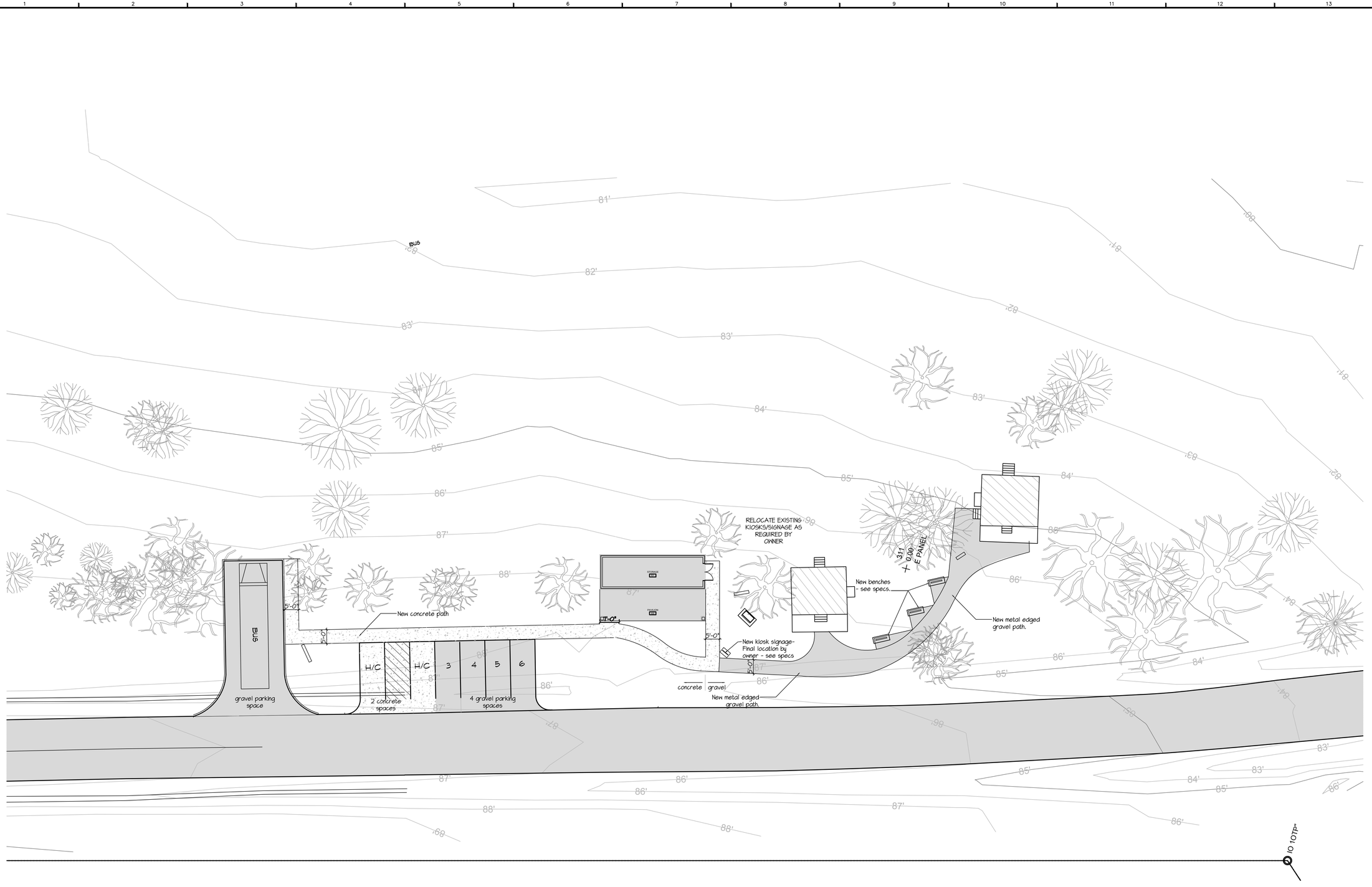
DATE
SEPTEMBER 22, 2022
COMMISSION NO.
2115
DRAWING NO.
C7.03
SHEET DESCRIPTION
PAVING DETAILS
DWN: WCE CHK: JSE

BID DOCUMENTS

PROJECT NO.
H18-9583-SG-A



CABIN SITE PLAN

SCALE: 1/16" = 1'-0"

PROJECT NO.
H18-9583-SG-A

REVISIONS

HEWN TIMBER CABINS REFURBISHMENT, FMU
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STATE OF SOUTH CAROLINA
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DATE
SEPTEMBER 22, 2022

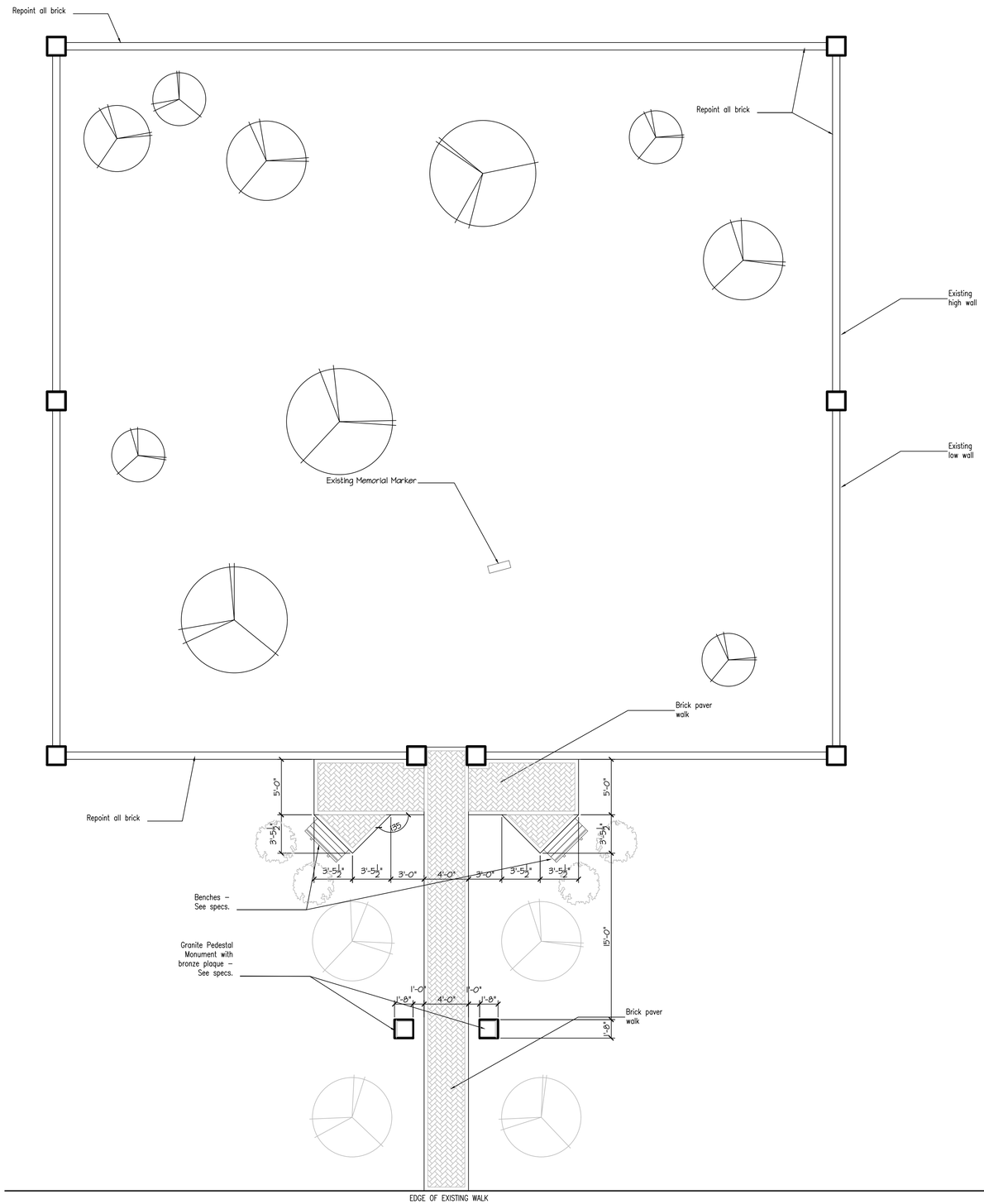
COMMISSION NO.
2115

DRAWING NO.
A0.0a

SHEET DESCRIPTION
CABIN AND PAVILION SITE PLAN

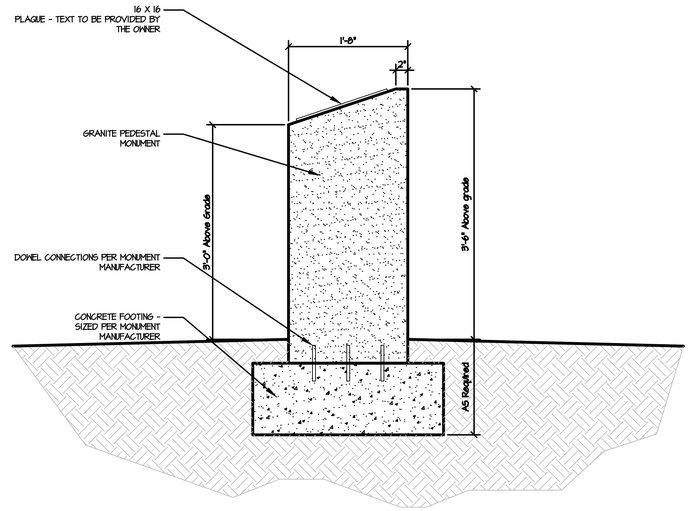
DWN: MCP | CHK: DSW

BID DOCUMENTS



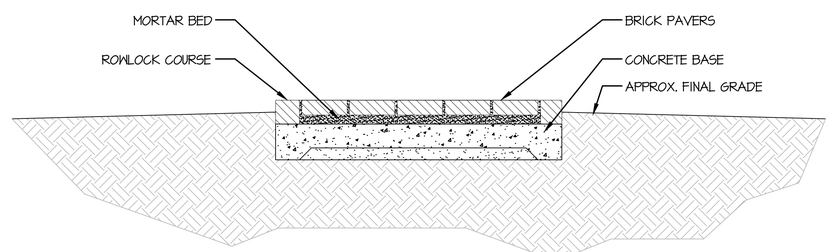
CEMETERY SITE PLAN

SCALE: 3/16" = 1'-0"



GRANITE PEDESTAL MONUMENT DETAIL

1" = 1'-0"



BRICK PAVER WALK DETAIL

1" = 1'-0"

PROJECT NO.
H18-9583-SG-A

REVISIONS

HEWN TIMBER CABINS REFURBISHMENT, FMU
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FLORENCE, SOUTH CAROLINA

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DATE
SEPTEMBER 22, 2022

COMMISSION NO.
2115

DRAWING NO.
A0.0b

SHEET DESCRIPTION
CEMETERY SITE PLAN & DETAILS

DWN: MCP | CHK: DSW

BID DOCUMENTS

TABLE 1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA

Flood Map Information: Flood Zone: X *(A Floodplain Permit is required for A and V Zones)*

Community Number: Panel Number:

Is the Project Site in a 100-Year Floodplain?	Yes ☐	No ☐
Base Flood Elevation (NGVD or FIRM)	85.3 MSL	
Design Flood Elevation (IBC 1612.3 and ASCE 24)	MSL	

NON HIGH-VELOCITY WAVE ACTION

Elevation of Lowest Proposed Floor (ASCE 24, Chapter 2)	85.3 MSL	
Dry floodproofing (ASCE 24)	Yes ☐	No ☐

HIGH-VELOCITY WAVE ACTION

Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	100.3 MSL	
Flotation resistant (ASCE 24)	Yes ☐	No ☐
Breakaway wall (ASCE 24)	Yes ☐	No ☐

IBC 1612 and SE-510, as applicable

2021 Edition

NOTE: Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria Tables 3 through 14. See IBC 503.1.2.

TABLE 3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION (IBC 602)	Type: VB	
OCCUPANCY CLASSIFICATION (indicate all) (IBC 302 & 504.2)	U	
MOST RESTRICTIVE OCCUPANCY CLASSIFICATION (IBC Tables 504.3, 504.4 & 506.2)	U	
Does building require Incidental Use Area Separation? (IBC 509.1)	Yes ☐	No ☒
Mixed Occupancy (IBC 508)	Yes ☐	No ☒
Non separated (IBC 508.3)	Yes ☐	No ☒
Separated (IBC 506.2.2, 506.2.4 & 508.4)	Yes ☐	No ☒
2-way Communication Required (IBC 1009.6.5 & 1009.8)	Yes ☐	No ☒
Fire Apparatus Access and Water Line (IFC 503 & 507)	Yes ☐	No ☒
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke- evacuation/control/compartments - IBC 414.1.3.)		

2021 Edition

TABLE 4 BUILDING HEIGHT & AREA

BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
IBC TABLE 504.3	15'	N/A	40'	N/A
IBC TABLE 504.4	N/A	1	N/A	1
TOTAL HEIGHT (including any Allowable Increase)	15'	1	N/A	N/A

BUILDING AREA

AREA LIMIT AS ALLOWED BY IBC TABLE 506.2 (area limitation for each story) 5,500 SF

AREA INCREASES AS ALLOWED BY IBC SECTIONS 506.2 & 506.3 N/A SF (maximum modified area for each story)

EXPLANATION OF INCREASES:

AREA AS ALLOWED BY IBC

Story: 1 — 5,500 SF (area this story)
Story: — SF (area this story)
Story: — SF (area this story)
Story: — SF (area this story)
Story: — SF (area this story)

TOTAL AREA OF BUILDING ALLOWED BY IBC (sum of all stories) SF

AREA AS DESIGNED	**ACCESSORY OCCUPANCY** (IBC 508.2 & Table 506.2)
Story: 1 — 940 SF (area this story)	SF (area this story)
Story: — SF (area this story)	SF (area this story)
Story: — SF (area this story)	SF (area this story)
Story: — SF (area this story)	SF (area this story)
Story: — SF (area this story)	SF (area this story)

TOTAL DESIGNED AREA OF BUILDING (summary of all stories) 940 SF

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TABLE 5 BUILDING DESIGN OCCUPANT LOAD

		A	B	C	D
STORY	**FUNCTION OF SPACE (1)**	**FLOOR AREA (2) (NSF or GSF)**	**MAX AREA ALLOWED PER OCCUPANT (3) (NSF or GSF)**	**OCCUPANTS ON FLOOR FOR THIS FUNCTION (4)**	**DESIGN OCCUPANT LOAD (5)**
1	Storage	429 GSF	300 GSF	1	
	Subtotal Design Occupant Load for This Story				1
	Subtotal Design Occupant Load for This Story				
	Subtotal Design Occupant Load for This Story				
	Subtotal Design Occupant Load for This Story				
TOTAL BUILDING DESIGN OCCUPANT LOAD					1 (6)

FOOTNOTES:

1. Provide the complete name of the Function of Space using the left column of Table 1004.5 of the IBC (1)
2. Design Area per each occupant of this Function on this Story in either Gross (GSF) or Net (NSF) Square Footage (2)
3. Allowed Floor Areas in SF per Occupant per right column in Table 1004.5 of the IBC (3)
4. Divide Column A (2) by Column B (3) for each function and enter result, rounded up to the nearest whole person (4)
5. Subtotal all Column C values for this floor to yield the Design Occupant Load (5)
6. Total Building Design Occupant Load –sum of all Column D value (6)

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TABLE 6 GENERAL FIRE PROTECTION REQUIREMENTS

SEPARATIONS		
Fireblocking Required (IBC Section 718)	Yes ☒	No ☐
Draftstopping Required (IBC Section 718)	Yes ☐	No ☒
Smoke Control System Required (IBC Section 909)	Yes ☐	No ☒
Smoke Barriers Required (IBC Section 407 & 408)	Yes ☐	No ☒
Smoke Partitions Required (IBC Section 407)	Yes ☐	No ☒
Fire Partition Required (IBC Section 708)	Yes ☐	No ☒
Fire Barrier Required (IBC Section 707)	Yes ☐	No ☒
ALARM & DETECTION		
Fire Alarm System Required (IFC Section 907)	Yes ☐	No ☒
Emergency/Voice Alarm Communications System Required (IFC Section 907.5.2.2)	Yes ☐	No ☒
Fire Command Center Required (IFC Section 508)	Yes ☐	No ☒
SUPPRESSION		
Standpipes Required (IFC Section 905)	Yes ☐	No ☒
Sprinklers Required (IFC Section 903)	Yes ☐	No ☒
Sprinklers Provided (____)	Yes ☐	No ☒
Portable extinguishers required (IFC 906)	Yes ☐	No ☒
Other suppression systems required (IFC 904)	Yes ☐	No ☒
Smoke & heat vents required (IFC 910)	Yes ☐	No ☒
OTHER: ***(Indicate other provided fire and life safety features not listed above, if any)***		
Emergency Responder Radio Coverage (IFC Section 510)	Yes ☐	No ☒
____		
____		
____		

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TABLE 7 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	RATING AS REQUIRED (in hours)	RATING AS DESIGNED (in hours)	TESTING AGENCY & DESIGN NO. (UL, FM, etc)	DESIGNERS WALL / PARTITION KEY CODE
Primary Structural Frame (IBC Table 601)	0	0	____	
Bearing Walls: (IBC Table 601)				
Exterior	0	0	____	____
Interior	0	0	____	____
Nonbearing Walls & Partitions (IBC Table 601, including footnote "d" & 602)				
Exterior	0	0	____	____
Interior	0	0	____	____
Floor Construction (IBC Table 601) (including supporting beams & joists)	0	0	____	
Roof Construction (IBC Table 601) (including supporting beams & joists)	0	0	____	
Fire Walls (IBC Section 706)	N/A	N/A	____	____
Fire Barriers (IBC Section 707)	N/A	N/A	____	____
Shaft Enclosures (IBC Section 713)	N/A	N/A	____	____
Fire Partitions (IBC Section 708)	N/A	N/A	____	____
Opening & Protective Listing by Category (fire shutters, doors, etc. - IBC Section 716)	N/A	N/A	____	____
Others (as required by Designer)	N/A	N/A	____	____

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TABLE 8 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY (IBC Table 1604.5): I

LIVE LOADS

Floor Live Load(s)

Occupancy/Use: Storage	F_R = 200	PSF
Occupancy/Use:	F_R =	PSF
Occupancy/Use:	F_R =	PSF
Occupancy/Use:	F_R =	PSF
Roof Live Load	R_R = 20	PSF
Ground Snow Load (IBC Figure 1608.2 or ASCE 7)	p_g = 10	PSF

WIND LOADS

Analysis Procedure (ASCE 7 or IBC 1609.6): ASCE 7

Basic Design Wind Speed (IBC Fig's. 1609.3(1)-(4)): V = 127 MPH

Exposure Category (IBC 1609.4.3): C

Internal Pressure Coefficient (ASCE 7): GC_{pi} = 0.8

External Pressure Coefficient (ASCE 7): GC_p = 0.9

Protection of Openings Required (IBC 1609.2): Yes ☐ No ☑

If "Yes", check one: Impact Resistant Glazing ☐

Impact Resistant Covering ☐

SEISMIC LOADS

Seismic Importance Factor (ASCE 7 Table 1.5-2): I_e = 1

Site Class (IBC 1613.2.2): D (default)

Mapped Spectral Response Accelerations: S_s = 0.310 S_1 = 0.113

Design Spectral Response Acceleration Parameters: S_{DS} = 0.321 S_{D1} = 0.179

Seismic Design Category (IBC Tables 1613.2.5, 1613.2.5.1 or 1613.2.5.2): C

Basic Seismic Force Resisting System: Braced Frame

Design Base Shear (ASCE 7 Chapter 12): 1.6 KIPS

Seismic Response Coefficient(s) (ASCE 7): C_s = 3

Response Modification Factor(s) (ASCE 7): R = 2

Analysis Procedure: ASCE 7

ARCHITECTURAL-MECHANICAL-ETC. LOADS

Provide as applicable: architectural items, mechanical, plumbing, etc. (ASCE 7) 75lb, AHU

SPECIAL LOADS

Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. (ASCE 7) N/A

*IBC Chapter 16 and ASCE 7 -- Information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

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TABLE 10 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS

Overall Thermal Transfer Value (OTTV): 0.47 BTU/(HR x °F x SF)

Building Cooling Load: 381 SF / Ton

Building Heating Load: 31.5 BTU/(HR x SF)

OTHER LOADING FEATURES

Glass: U Factor: N/A Window to wall ratio: N/A

Insulation Values: Roof: 30 Exterior Walls: 4

Outside Air minimum while occupied: 23 CFM 1 Occupants

MECHANCIAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

Briefly describe mechanical system: One mini-split system that contains an outside heat pump with an interior four-way ceiling cassette that pulls makeup air. The makeup air is drawn through a pipe that pulls in air from the outside when the ceiling cassette fan is active.

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TABLE 9 PLUMBING INFORMATION

WATER SYSTEM: Service Line Size: _____ Inches

Peak Flow: _____ No. Fixture Units

No Plumbing Associated with this storage building

SANITARY SEWER SYSTEM: Loading _____ GPD

Service Line Size: _____ Inches Slope: _____ min inches/ft

MINIMUM PLUMBING FIXTURES REQUIRED BY OCCUPANCY (IPC Section 403 & Table 403.1)

All Occupancy Classification(s) (same as OSE Table 3): _____

Total Building Design Occupant Load (same as OSE Table 6): _____

1. Occupancy: _____	Total Load for this Occupancy: _____	Male: _____	Female: _____
Water Closets/ Urinals (IPC Section 424.2):	MALE: _____ (# Urinals allowed ____)		FEMALE: _____
Lavatories:	MALE: _____		FEMALE: _____
Drinking Fountains			_____
Unisex Toilet			_____
Service Sink			_____
Other (list) _____			_____
2. Occupancy: _____	Total Load for this Occupancy: _____	Male: _____	Female: _____
Water Closets/ Urinals (IPC Section 424.2):	MALE: _____ (# Urinals allowed ____)		FEMALE: _____
Lavatories:	MALE: _____		FEMALE: _____
Drinking Fountains			_____
Unisex Toilet			_____
Service Sink			_____
Other (list) _____			_____
3. Occupancy: _____	Total Load for this Occupancy: _____	Male: _____	Female: _____
Water Closets/ Urinals (IPC Section 424.2):	MALE: _____ (# Urinals allowed ____)		FEMALE: _____
Lavatories:	MALE: _____		FEMALE: _____
Drinking Fountains			_____
Unisex Toilet			_____
Service Sink			_____
Other (list) _____			_____

TOTAL BUILDING COUNT REQUIRED/PROVIDED (add all occupancies)

Note: Round up all numbers Whole numbers only	REQUIRED Male	Female	PROVIDED Male	Female
Total Water Closets/ Urinals	____ (# Urinals allowed ____)	____	____ (# Urinals provided ____)	____
Total Lavatories	____	____	____	____
Total Drinking Fountains	____		____	
Total Unisex Toilets	____		____	
Total Service Sinks	____		____	
Total Other (list): ____	____		____	

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TABLE 11 - ELECTRICAL INFORMATION

SERVICE TRANSFORMER: ☑ By Utility Company

☐ By Agency If by Agency: _____ KVA Primary _____ Voltage/Phase

ELECTRICAL SERVICE INFORMATION:

Service Voltage/Phase: 120/240V – 1ph, Existing Amperes: 200

Service Entrance Conductors Size: N/A Quantity per Phase: 2

Total Connected Load: 7 KVA Estimated Demand Factor: 0.46

Estimated Maximum Demand: 30 Amperes

Available Fault Current in Symmetrical Amperes: N/A Amperes

Interrupting Capacity of Service Overcurrent Device: N/A Amperes

Grounding Electrode System Components:

☑ Metal In-ground Support Structure(s)
☐ Ground Ring
☐ Plate Electrodes
☐ Other Listed Electrodes, please specify
☐ Metal Underground Water Pipe
☐ Concrete-Enclosed Electrode
☐ Rod and Pipe Electrodes
☐ Other Local Metal Underground Systems or Structures

EMERGENCY SERVICE INFORMATION:

Generator 1: ☐ Emergency ☐ Standby ☐ Op. Standby _____ Voltage/Phase _____ Fuel _____ KVA

Generator 2: ☐ Emergency ☐ Standby ☐ Op. Standby ☐ Integral Battery _____ Fuel _____ KVA

Exit/Emergency Egress Lighting Backup Power ☑ Battery ☐ Generator

Fire Alarm System: ☐ Manual ☐ Auto ☐ Manual/Auto ☐ Addressable ☐ Class A ☐ Class B

Fire Alarm System Method of Communication to Monitoring Station (please specify): N/A.

Fire Alarm Pathway Survivability: ☐ Level 0 ☐ Level 1 ☐ Level 2 ☐ Level 3

Carbon Monoxide Detection Required? ☐ Yes ☑ No

Emergency Responder Radio Coverage Enhancement Req.? ☐ Yes ☑ No

LIGHTNING PROTECTION SYSTEM PROVIDED: ☐ Yes ☑ No

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SHEET DESCRIPTION
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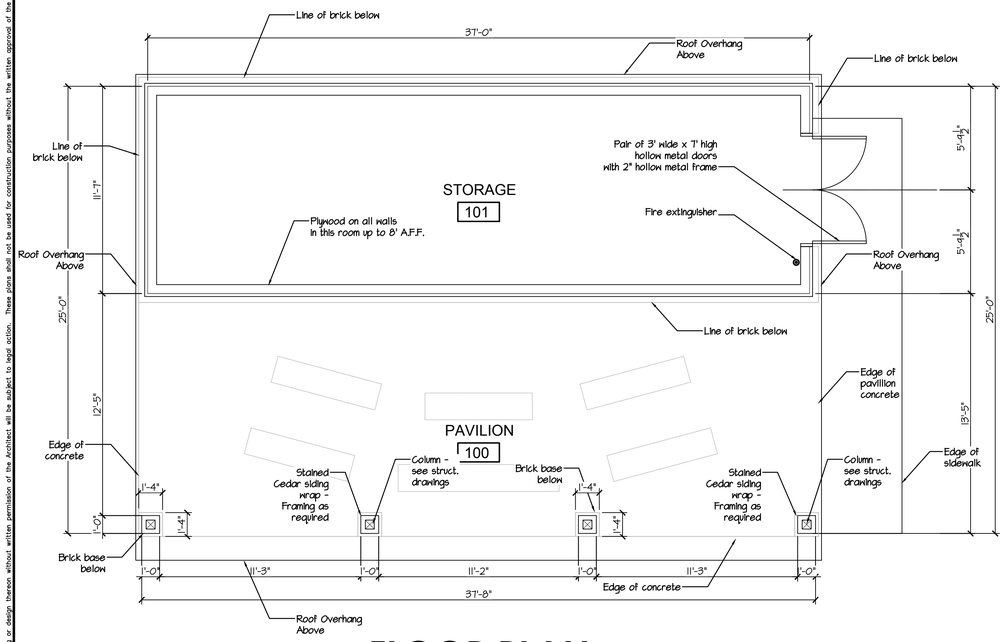
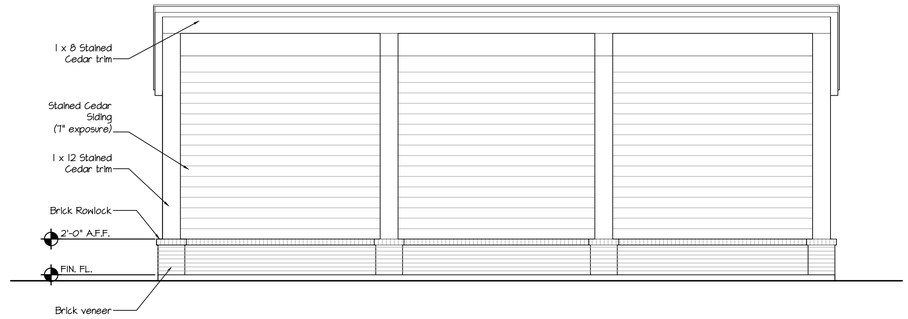
DWN: MCP CHK: DSW

BID DOCUMENTS



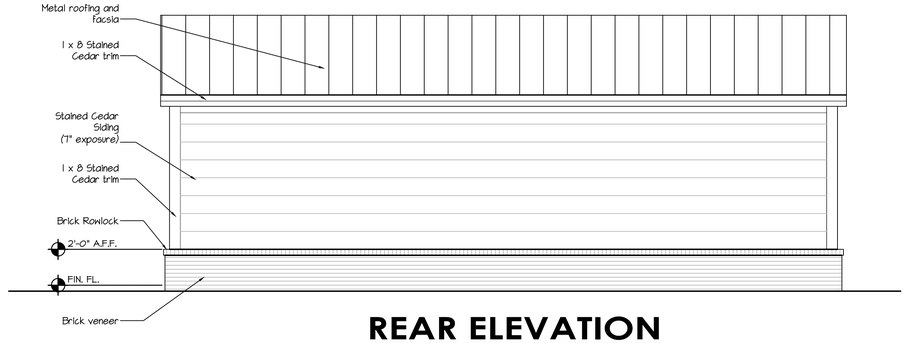
FLOOR PLAN

SCALE: ¼" = 1'-0"



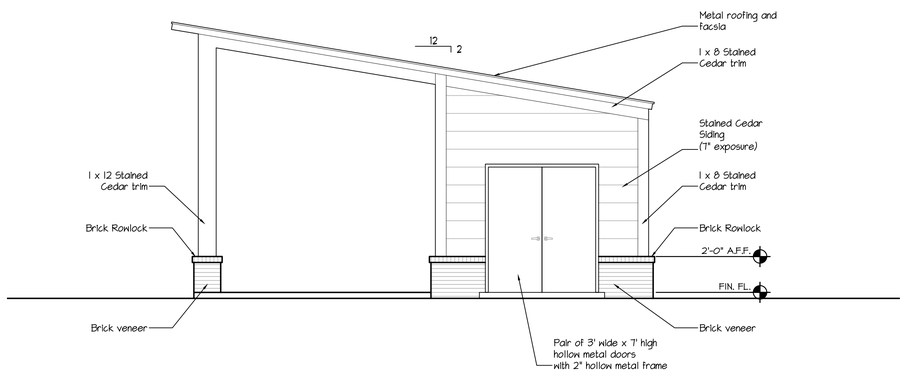
FRONT ELEVATION

SCALE: ¼" = 1'-0"



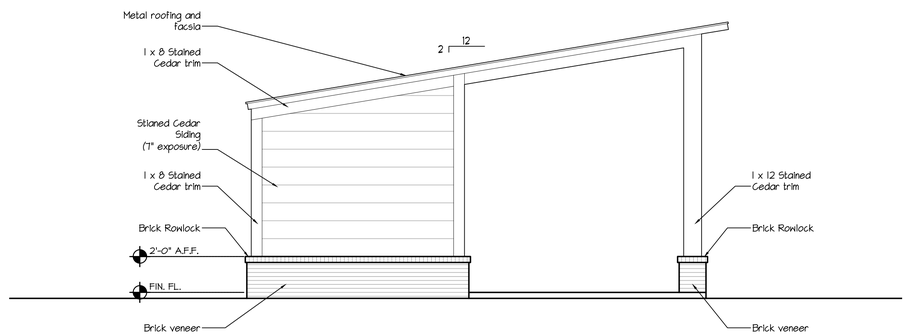
REAR ELEVATION

SCALE: ¼" = 1'-0"



SIDE ELEVATION

SCALE: ¼" = 1'-0"



SIDE ELEVATION

SCALE: ¼" = 1'-0"

SCHEDULE OF FINISHES

NO.	SPACE NAME	FLOOR	BASE	WALLS	WALL FIN.	WAINSCOT	HEIGHT	CEILING	HEIGHT	REMARKS	NO.
100	PAVILLION	CONCRETE		BRICK/CEDAR SIDING	STAINED SIDING			T & G WOOD SOFFIT	VARIES		100
101	STORAGE	CONCRETE	RUBBER BASE	PLYWOOD (UP TO 8'-0")	-			-	-		101

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FLOOR PLAN AND ELEVATIONS
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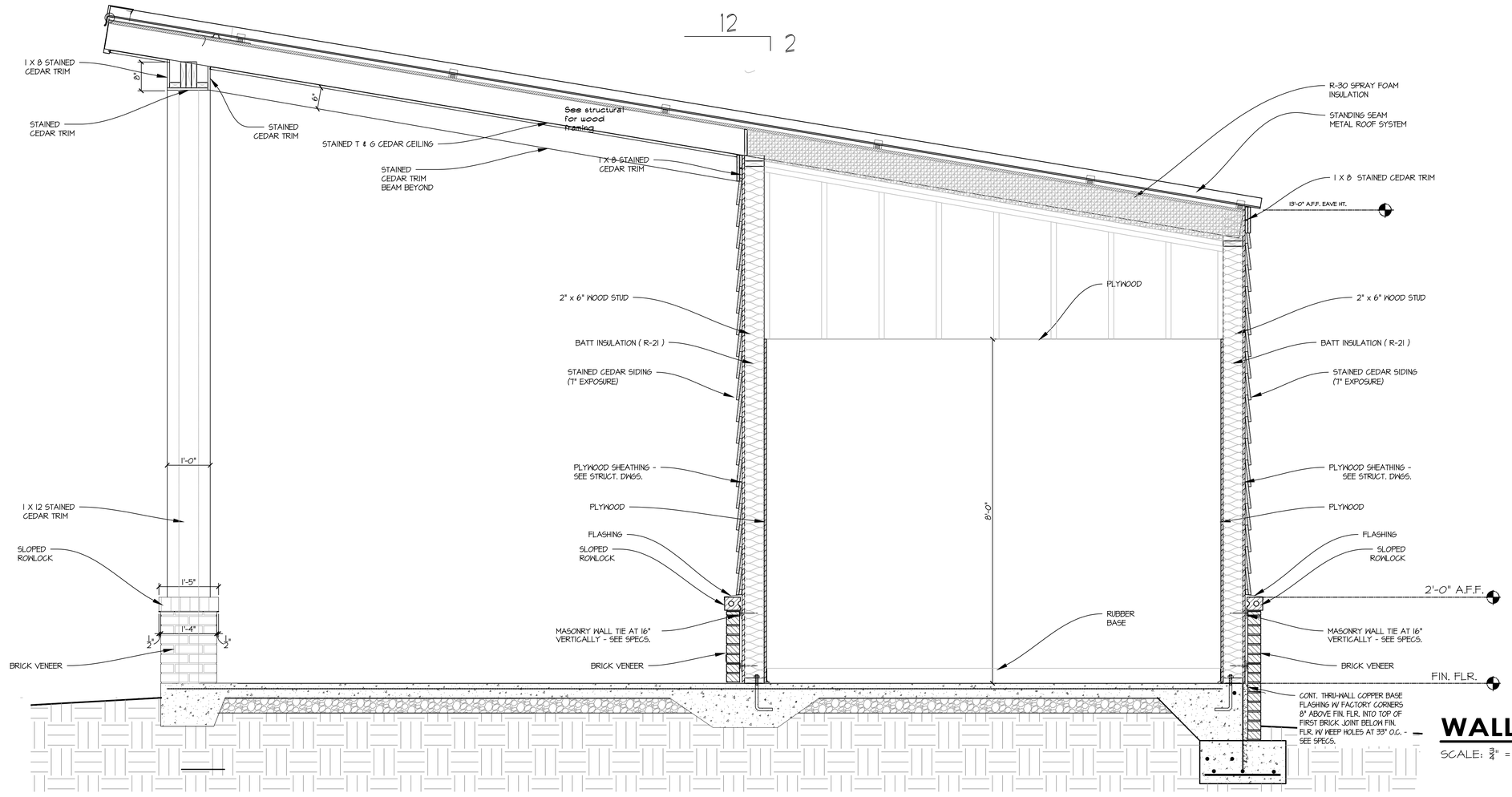
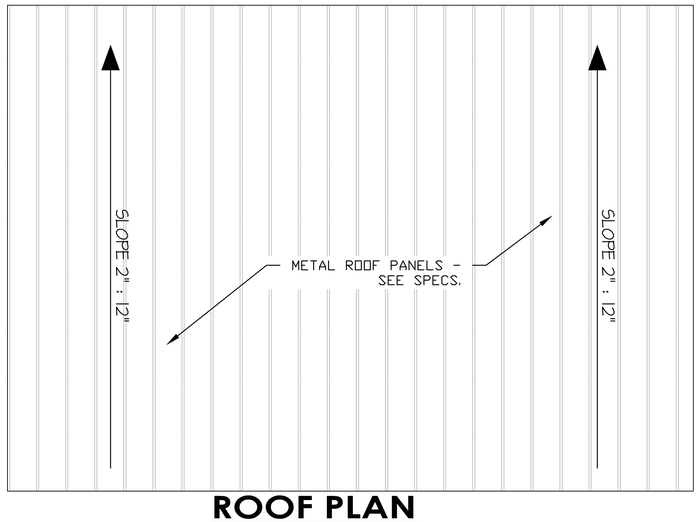


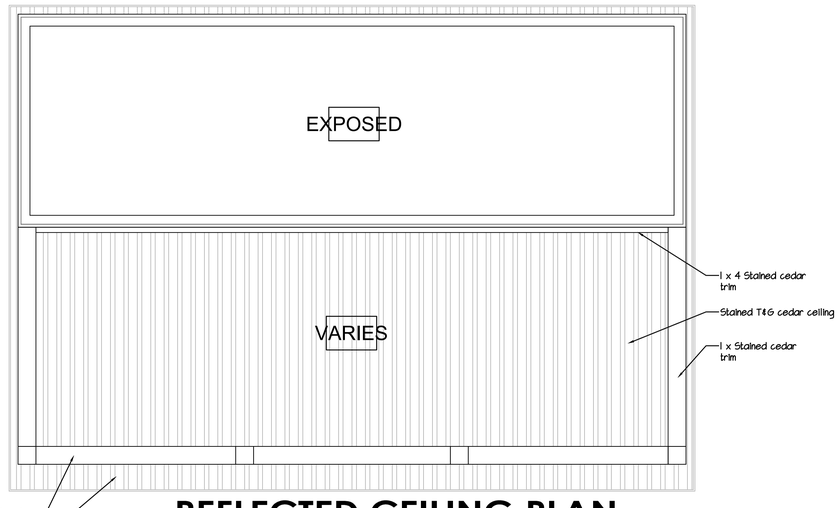
WALL SECTION

SCALE: $\frac{3}{4}$" = 1'-0"



ROOF PLAN

SCALE: $\frac{1}{4}$" = 1'-0"



REFLECTED CEILING PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

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SHEET DESCRIPTION
WALL SECTION, ROOF PLAN & REFLECTED CEILING PLAN

DWN: MCP | CHK: DSW

BID DOCUMENTS

STRUCTURAL NOTES:

NOTES LISTED BELOW AND HEREIN ARE WHERE APPLICABLE FOR THIS PROJECT. SOME NOTES MAY NOT BE RELEVANT.

GENERAL NOTES:

1. THE REQUIREMENTS OF THESE GENERAL NOTES SHALL APPLY TO ALL STRUCTURAL WORK. INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE, STATE AND LOCAL CODES AND THE LATEST AMENDMENTS THERETO.
2. THE WORK COVERED BY THIS CONTRACT CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED. MATERIALS OR PRODUCTS SPECIFIED BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS THEY ARE SUBMITTED FOR REVIEW TO USE AND APPROVED BY THE ENGINEER AND/OR ARCHITECT.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. FURNISH COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO PURCHASING.
5. CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, PLUMBING AND ALL OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE. ALL OPENINGS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH U.L. LISTED PENETRATION AND SHALL MAINTAIN THE FIRE RATED INTEGRITY OF THE WALL OR FLOOR. THE CONTRACTOR SHALL VERIFY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. SUBMIT U.L. PENETRATION DETAILS WITH SHOP DRAWINGS FOR ENGINEER'S REVIEW. MINIMUM RATINGS SHALL BE AS FOLLOWS: WALLS - F=1, T=0; FLOOR - F=1, T=1.
6. CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING IN COLORED PENCIL ON BLACK LINE PRINTS ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSIONS OF BURIED UTILITY LINES FROM BUILDING WALLS.THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
7. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
8. ALL WORK SHALL BE GUARANTEED, BOTH MATERIAL AND INSTALLATION, FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE BY OWNER.
9. ALL OTHER MATERIALS NOT SPECIFIED ELSEWHERE HEREIN TO BE OF PROPER DESIGN, PROPER QUALITY AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
10. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO BE READ OR CALCULATED.
11. WORK NOT INDICATED AS PART OF DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT AT CORRESPONDING PLACES SHALL BE REPEATED.
12. ALL SECTIONS AND DETAILS ARE TYPICAL AT SIMILAR LOCATIONS AND WHERE APPLICABLE.
13. THE DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF MEMBER UNITS SHALL BE CONSIDERED IN THE BUILDING AND LAYOUT PLAN.
14. FRAMING MATERIALS AND MEMBERS AND SIMILAR COMPONENTS SPECIFIED IN COMMON SIZES UNLESS SPECIFICALLY NOTED.
15. THESE PLANS ARE THE PROPERTY OF MPE&C ONLY. ANY UNAUTHORIZED USE, REPRODUCTION, OR OTHERWISE IS PROHIBITED. DOING SO IS SUBJECT TO PROSECUTION.
16. THESE PLANS ARE SITE SPECIFIC TO THIS PARTICULAR PROJECT, SITE, AND LOCATION ONLY.

FOUNDATION NOTES:

1. SEE DESIGN CRITERIA REGARDING SOILS REPORT IF APPLICATIVE. FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THIS OR ASSUMED SITE CONDITIONS FOR CONTRACTOR TO VERIFY.
2. FILL AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATION IF APPLICABLE.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
4. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT, AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET. NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL. ANY WALL 3'-0" OR HIGHER MUST BE BRACED DURING THE CONSTRUCTION PROCESS.
5. NO FOUNDATIONS SHALL BE PLACED ABOVE 1 VERTICAL ON 2 HORIZONTAL SLOPES EXTENDED FROM THE CLOSEST EDGE OF ANY UNDISTURBED SOIL OR OTHER FOUNDATION STRUCTURE. BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE (U.N.O.).
6. FOR FOUNDATIONS SIZE AND REINFORCING SEE SCHEDULE.
7. ELEVATOR PIT DIMENSIONS = VERIFY WITH ELEVATOR MANUFACTURERS APPROVED SHOP DRAWINGS.
8. WATERPROOFING MATERIALS SHALL BE PROVIDED ON ALL SIDES AND BOTTOM OF ELEVATOR CORE AND ESCALATOR PIT.
9. CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.

CONCRETE AND REINFORCING:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS INDICATED BELOW:

CONC. MAX STRENGTH	WATER CEMENT RATIO	AGGREGATE	LOCATION
4000 PSI	0.45	STONE	CONCRETE LINO
3000 PSI	0.52	STONE	SLAB ON GRADE FOUNDATIONS

3. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE. PRIOR TO POURING CONCRETE. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706.
4. ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
5. UNLESS NOTED, ALL BARS MARKED CONTINUOUS SHALL BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER TYPICAL DETAILS. SPLICE CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND SPLICE CONTINUOUS BOTTOM BARS AT SUPPORTS.
6. CONCRETE COVER FOR REINFORCING BARS SHOWN IN TYPICAL DETAILS.
7. UNLESS NOTED, TEMPERATURE REINFORCING (ASTM A-615-60) TO BE 0.0018 X CONCRETE AREA.
8. PROVIDE #4 @ 12" O.C., WITH STANDARD HOOK, TOP BARS IN ALL SLABS AT DISCONTINUOUS ENDS UNLESS OTHERWISE NOTED ON PLANS. LENGTH OF BARS 1/4 OF SPAN, MINIMUM 3'-0". UNLESS OTHERWISE NOTED PROVIDE #4 @ 12" O.C. IN ALL CANTILEVERS. BAR LENGTH SHALL BE CANTILEVER SPAN PLUS 10'-0" PLUS STANDARD HOOK AT CANTILEVER ENDS.
9. WHERE PIPE SLEEVES (UP TO 2" IN DIAMETER) PASS THROUGH CONCRETE BEAMS, PROVIDE ADDITIONAL STIRRUP EACH SIDE OF SLEEVE, SLEEVES FOR PIPES 2" IN DIAMETER OR LARGER MUST BE STEEL OR CAST IRON, AND THE LOCATION MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
10. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO BE READ OR CALCULATED.
11. WORK NOT INDICATED AS PART OF DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT AT CORRESPONDING PLACES SHALL BE REPEATED.
12. ALL SECTIONS AND DETAILS ARE TYPICAL AT SIMILAR LOCATIONS AND WHERE APPLICABLE.
13. THE DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF MEMBER UNITS SHALL BE CONSIDERED IN THE BUILDING AND LAYOUT PLAN.
14. FRAMING MATERIALS AND MEMBERS AND SIMILAR COMPONENTS SPECIFIED IN COMMON SIZES UNLESS SPECIFICALLY NOTED.
15. THESE PLANS ARE THE PROPERTY OF MPE&C ONLY. ANY UNAUTHORIZED USE, REPRODUCTION, OR OTHERWISE IS PROHIBITED. DOING SO IS SUBJECT TO PROSECUTION.
16. THESE PLANS ARE SITE SPECIFIC TO THIS PARTICULAR PROJECT, SITE, AND LOCATION ONLY.
17. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE BUILDING CODE.
18. PROVIDE 1"X1" CHAMFER OF EXPOSED CORNERS OF BEAMS AND/OR COLUMNS.
19. CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC., REQUIRED FOR VARIOUS TRADES.
20. CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
21. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLASHING REGLETS, FASCIA DETAILS, ETC.
22. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM, ALUMINUM MIXING DRUMS, TRUCK MIXERS, BUGGIES, CHUTES, CONVEYORS, TREMIE PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM SHALL NOT BE USED ON THIS PROJECT.
23. SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HRWR ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
24. NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEERS AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
25. WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
26. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:
    - 26.1. FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
    - 26.2. FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.
27. FLY ASH - ASTMC618, TYPE C OR TYPE F SHOULD BE USED BUT NOT TO EXCEED 20% CEMENTITIOUS CONTENT.
28. ALL EXPOSED CONCRETE SLABS SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM. WATER/BLANKET CURING AS PER ACI RECOMMENDATION MAY BE USED AS ALTERNATE.

MASONRY:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-11 ASCE 7-10) / TMS 402-11 AND SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530.1-11 / ASCE 7-10.
2. MINIMUM NET COMPRESSIVE STRENGTH OF BLOCK ASSEMBLY SHALL BE 2000 PSI (F'M) MORTAR FOR MASONRY SHALL BE TYPE "S" OR "N".
3. FOR ALL EXTERIOR AND INTERIOR BEARING, BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
4. FILL ALL CELLS AS REQUIRED WITH 3000 PSI GROUT. SLUMP SHALL BE 8 TO 11 INCHES. SUBMIT DESIGN MIX FOR APPROVAL.
5. MINIMUM HORIZONTAL JOINT REINFORCING SHALL BE 9 GAGE HOT DIP GALVANIZED TRUSS OR LADDER TYPE JOINT REINFORCING AT 16" O.C., PROVIDE MANUFACTURE "T" AND "L" SHAPES FOR INTERSECTIONS AND CORNERS, (MINIMUM LAP 8").
6. MINIMUM VERTICAL REINFORCING SHALL BE 1-#5 @ 48" OR 1-#4 @ 32" O.C., (U.N.O.).
7. PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION, CONTROL JOINT, AND OPENING EDGES (U.N.O.).
8. MINIMUM SPLICE FOR VERTICAL REINFORCING IS SHOWN IN DETAIL 4-023, SPLICE FOR HORIZONTAL JOINT REINFORCING = 12".
9. WALLS ARE DESIGNED TO BE BRACED BY FLOOR OR ROOF MEMBERS, CONTRACTOR SHALL PROVIDE TEMPORARY BRACING DURING CONSTRUCTION.
10. ALL CELLS BELOW FIRST FLOOR FINISHED ELEVATION MUST BE FULLY GROUT FILLED.
11. ALL KNOCK OUT BLOCK HORIZONTAL BARS SHALL HAVE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS. SIZE AND NUMBER OF CORNER BARS SHALL BE SAME AS HORIZONTAL BARS.
12. ALL INTERSECTING WALLS AND CORNER WALLS SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS.
13. ALL MASONRY TO CONFORM TO ASTM C-90 UNLESS OTHERWISE SPECIFIED.
14. ALL MASONRY TO USE TYPE S MORTAR UNLESS SPECIFICALLY STATED OTHERWISE.

COLD FORMED METAL FRAMING:

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS", 2007 EDITION WITH 2009 SUPPLEMENTS. PROVIDE SIGN AND SEALED CALCULATIONS AND DRAWINGS FOR ALL LIGHT GAUGE STRUCTURAL ELEMENTS OF THE BUILDING, INCLUDING THE EXTERIOR METAL STUDS (CURTAIN WALL), AND ALL EXTERIOR CEILINGS.
2. ALL STRUCTURAL STUDS AND JOISTS 22, 20, AND 18 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C955 WITH A YIELD STRENGTH OF 33,000 PSI.
3. ALL STRUCTURAL STUDS AND JOISTS 16, 14, AND 12 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING ASTM C955, WITH YIELD STRENGTH OF 50,000 PSI.
4. ALL STRUCTURAL TRACK AND BRIDGING SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C595, WITH YIELD STRENGTH OF 33,000 PSI.
5. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGELS, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.
6. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653 FOR MINIMUM G60 COATING. ATTACH SIMILAR COMPONENTS BY WELDING. ATTACH DISSIMILAR COMPONENTS BY WELDING, BOLTING OR SCREW FASTENERS, AS STANDARD WITH MANUFACTURERS. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED AND EXPERIENCED IN LIGHT GAUGE STRUCTURAL STEEL FRAMING WORK.
7. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
8. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS.
9. SET STUDS PLUMB, EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR NON-PLUMB WALLS OR WARPED SURFACED AND SIMILAR REQUIREMENTS.
10. WHERE STUD SYSTEM ABUTS STRUCTURAL COLUMN OR WALLS, INCLUDING MASONRY WALL, ANCHOR ENDS OF STIFFENERS TO SUPPORTING STRUCTURE.
11. SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENERS AT BOTH INSIDE AND OUTSIDE FLANGES.
12. STEEL JOIST CONSTRUCTION SHALL CONFORM TO THE LATEST SPECIFICATIONS OF, AND THE JOISTS SHALL BE APPROVED BY, THE STEEL JOIST INSTITUTE.
13. UNLESS OTHERWISE NOTED, BEAR SHORT SPAN JOISTS MINIMUM OF 2-1/2" ON STEEL BEAMS AND BEAR LONG SPAN JOIST MINIMUM OF 4" ON STEEL SUPPORTS. IN CASES WHERE JOISTS BEAR ON BEAMS FROM ONE SIDE ONLY, JOIST SEATS SHALL EXTEND A MINIMUM OF 1" PAST THE CENTERLINE OF SUPPORTING BEAM.
14. ALL JOISTS BEARING ON BEAMS SHALL BE WELDED OR BOLTED TO THOSE BEAMS.
15. PROVIDE BRIDGING FOR ALL JOISTS AS SHOWN ON PLAN BUT NOT LESS THAN WHAT IS REQUIRED BY THE STEEL JOIST INSTITUTE OR THE STEEL JOIST DESIGNER. BRIDGING SHALL CONSIST OF MINIMUM 1-1/4" X 1-1/4" X 7/64" ANGLES, (U.N.O.).
16. ALL BRIDGING SHALL BE PROVIDED AND INSTALLED BY JOIST SUPPLIER.
17. ALL CLIPS AND CONNECTIONS SHALL BE SHOP WELDED.
18. NO FIELD WELDING TO BAR JOISTS EXCEPT ITEMS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS SHALL BE ALLOWED WITHOUT SPECIFIC PERMISSION FROM THE ENGINEER.
19. NO JOIST SHALL BE FIELD SPLICED.
20. MAXIMUM DEFLECTION OF STEEL JOISTS = L/240.
21. FOR PAINTING OF STEEL JOIST, SEE SPECIFICATIONS.
22. JOIST MANUFACTURER SHALL SUBMIT WITH THE SHOP DRAWINGS HIS CATALOG USED FOR THE MANUFACTURE OF JOISTS, INDICATING THE LOAD TABLES AND SIZES OF ALL MEMBERS USED.
23. NO LOADS EXCEEDING 40 POUNDS MAY BE HUNG FROM JOISTS WITHOUT SPECIFIC PERMISSION FROM THE STRUCTURAL ENGINEER. LOADS LESS THAN 40 POUNDS MAY BE HUNG AT PANEL POINTS ONLY. ANY COST INVOLVED IN REINFORCING OF JOISTS SHALL BE BORNE BY THE PRIME CONTRACTOR REQUIRING ADDED LOADS.
24. ALL SHORT SPAN JOISTS, AND DEEP LONG SPAN JOISTS SHALL HAVE UNIFORM CROSS SECTION, WITH STANDARD DEAD LOAD CAMBER. ROOF PITCH IS ACCOMPLISHED BY SLOPED JOISTS AND SUPPORT BEAMS. ADJUST JOIST SEATS AS SHOWN ON DRAWINGS.
25. FOR SPECIFIC JOIST ENDS, SEE ROOF SECTIONS.
26. RIGID CONNECTIONS OF BOTTOM CHORDS OF JOISTS TO COLUMNS SHALL BE MADE ONLY AFTER THE APPLICATION OF ALL THE DEAD LOADS. PROVIDE LOOSE BOLTED CONNECTIONS OF THESE BOTTOM CHORDS DURING ERECTION.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
    - 1.1. STRUCTURAL STEEL SHALL CONFORM TO:
    - 1.2. WIDE FLANGE (WF) - ASTM A992 (50 KSI)
    - 1.3. SHAPES (L,T,C,PL) - ASTM A36
    - 1.4. STRUCTURAL TUBE (HSS) - ASTM A500 (46 KSI)
    - 1.5. STEEL PIPE (HSS) - ASTM A500 (42 KSI)
    - 1.6. ANCHOR BOLTS - ASTM F1554 (36KSI) U.N.O.
    - 1.7. FRAMING BOLTS - ASTM A325 OR A490
    - 1.8. SHEAR STUDS - ASTM A108
    - 1.9. WELDING ELECTRODES - E70XX
2. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
3. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
4. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
5. ALL FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS, SLIP-CRITICAL (FRICTION) TYPE EXCEPT WHERE SLOTTED HOLES ARE SPECIFIED OR WHERE MOVEMENT OF THE CONNECTED MEMBERS IS EXPECTED. IN THESE CASES PROVIDE OVERSIZED WASHER, HAND TIGHTEN BOLTS, AND TACK WELD WASHER TO NUT TO VERIFY ASSEMBLY IS HELD TOGETHER.
6. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
7. CUTS, HOLES, COPINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
8. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
9. ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE HOT DIPPED GALVANIZED.
10. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
11. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
12. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
13. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
14. DESIGN CONNECTIONS FOR THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" AT THE BOTTOM OF EACH PAGE IN THE "BEAM PROPERTIES" OF THE 13TH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION. "MINIMUM CONNECTION SHALL CONSIST OF TWO 3/4"Ø BOLTS. REACTIONS SHOWN ARE BASED ON UNFACTORED LOADS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
15. WHEN STEEL MEMBERS ARE WELDED TO EMBED PLATES IN CONCRETE, WELDING PROCESS SHOULD BE PERFORMED IN SUCH WAY THAT EMBED PLATE DOES NOT OVERHEAT AND EXPAND. SUCH EXPANSION WILL CRACK THE CONCRETE SURROUNDING THE EMBED PLATE AND MAY WEAKEN THE STRUCTURAL CAPACITY OF THE CONNECTION. WE RECOMMEND TO PROVIDE SEVERAL SINGLE PASSES TO BUILT UP THE WELD SIZE REQUIRE WITH COOLING OFF PERIODS TO AVOID THE EMBED PLATE EXPANSION. UNDER NO CIRCUMSTANCES PROVIDE MORE THAN 6" OF 1/4" WELD WITHOUT ALLOWING A COOLING OFF PERIOD.

COMMODITY LUMBER:

1. ALL LUMBER SPECIFIED IN STANDARD NOMINAL DIMENSIONS AND TO BE #2 SOUTHERN PINE OR BETTER UNLESS OTHERWISE SPECIFIED. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
2. ALL STRUCTURAL WOOD SHALL FOLLOW THE AWC WOOD FRAME CONSTRUCTION MANUAL AND AWC MATERIAL DATA SPECIFICATIONS, LATEST EDITIONS.
3. ALL EXPOSED WOOD TO BE PRESSURE TREATED PER AWPA GUIDELINES AND APPLICABLE BUILDING CODES. WOOD TO BE TREATED SPECIFICALLY FOR ABOVE OR BELOW GROUND CONTACT, WHICHEVER IS IN USE.

ENGINEERED LUMBER & TRUSSES:

1. ALL ENGINEERED LUMBER, WHERE SUPPLIED, TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS UNLESS SPECIFICALLY STATED ON PLANS BY ENGINEER.
2. TRUSSES, WHERE SUPPLIED, SHALL BE DESIGNED BY THE MANUFACTURER AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. LVL AND TJI BEAMS SPECIFIED IN WEYERHAEUSER BRAND UNLESS OTHERWISE STATED. SUBSTITUTION OF APPROVED EQUIVALENTS IS ACCEPTABLE.
4. TRIMMABLE TRUSS-JOISTS SPECIFIED IN TRIMJOIST BRAND UNLESS OTHERWISE STATED. SUBSTITUTION OF APPROVE EQUIVALENTS IS ACCEPTABLE.
5. ALL STRUCTURAL WOOD SHALL FOLLOW THE AWC WOOD FRAME CONSTRUCTION MANUAL AND AWC MATERIAL DATA SPECIFICATIONS, LATEST EDITIONS.

FASTENERS, STRAPPING, HARDWARE:

1. ALL STRAPPING, FASTENERS, HARDWARE, ETC. TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL PER ASTM A123 OR ASTM 153, UNLESS OTHERWISE SPECIFIED.
2. ANCHOR BOLTS TO BE MINIMUM ASTM A36. THREADED FASTENERS TO BE MINIMUM ASTM A307.
3. ALL CONNECTIONS PER IRC/IBC STANDARD FASTENING SCHEDULES UNLESS OTHERWISE NOTED.
4. BOLTS, NAILS AND SCREW SIZES SPECIFIED IN COMMON SIZES UNLESS SPECIFICALLY NOTED.

OTHER:

1. ALL OTHER MATERIALS NOT SPECIFIED ELSEWHERE HEREIN TO BE OF PROPER DESIGN, PROPER QUALITY AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

CONSTRUCTION:

1. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF EXISTING FEATURES BEFORE STARTING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR JUSTIFICATION AND/OR CORRECTIONS. THE CONTRACTOR/OWNER SHALL ASSUME LIABILITY FOR ALL ERRORS THAT ARE NOT REPORTED. NOTE, THE INFORMATION PROVIDED IN THESE PLANS IS LIMITED TO THE VISUAL OBSERVATION AND INFORMATION PROVIDED BY THE CONTRACTOR AND/OR OWNER.
2. THE ENGINEER ASSUMES NO LIABILITY FOR ANY CHANGES OR MODIFICATIONS BY OTHERS MADE TO THE PLANS IN WHOLE OR IN PART.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL TRADES INVOLVED.
4. ALL WORK SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES, AND REGULATIONS OF ALL APPROPRIATE REGULATING BODIES.
5. UNLESS NOTED, NO SOILS REPORT OR SITE CONDITION INFORMATION HAS BEEN PROVIDED TO THE ENGINEER. CONTRACTOR TO VERIFY GROUND AND SOILS CONDITIONS ARE ACCEPTABLE FOR CONSTRUCTION. ENGINEER SHALL NOT BE LIABLE FOR UNFORESEEN SITE OR SOIL CONDITIONS.
6. CONTRACTOR TO VERIFY IF TREE CONFLICTS EXIST PRIOR TO CONSTRUCTION.
7. ALL CONSTRUCTION METHODS, PRACTICES, AND MATERIALS TO FOLLOW CURRENT BUILDING CODE STANDARDS EXCEPT AS NOTED. THESE SHOULD ALSO BE PRE-APPROVED BY OWNER OR GENERAL CONTRACTOR IN CHARGE. ENGINEER SHALL NOT BE RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCES, ETC. OF CONSTRUCTION ACTIVITIES. SUPERVISION OF ALL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. ALL CONSTRUCTION LAYOUT IS THE RESPONSIBILITY OF OWNER OR GENERAL CONTRACTOR IN CHARGE.
9. IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE MORE RIGID, ROBUST, STRONGER, ETC. TO BE ASSUMED TO PREVAIL UNLESS EXPLICITLY SPECIFIED BY ENGINEER.
10. WALL, FLOOR, CEILING PENETRATIONS TO BE PER CURRENT BUILDING CODE STANDARDS UNLESS OTHERWISE SPECIFIED.
11. CALL P.U.P.S. 811 BEFORE DIGGING.

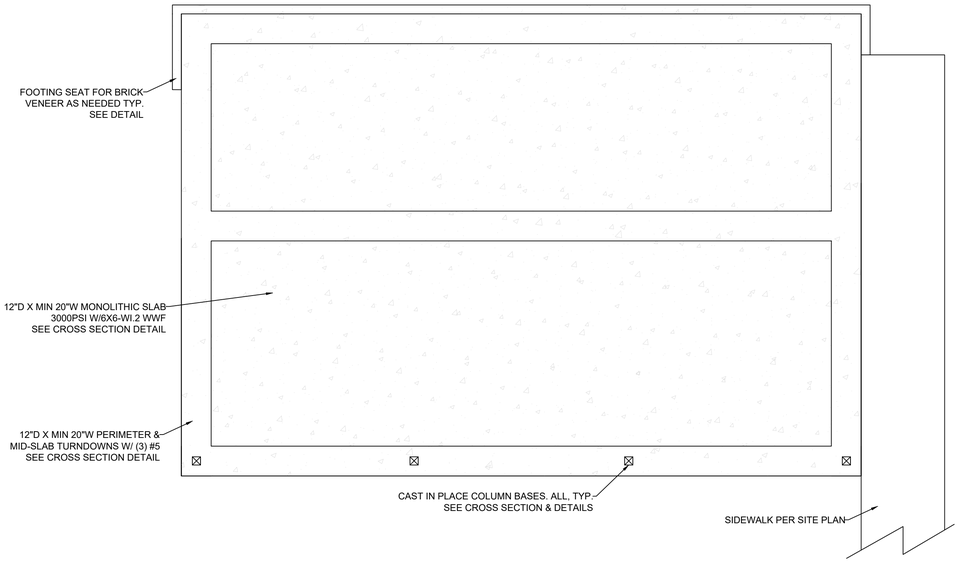
STRUCTURAL PROJECT SPECIFIC NOTES:

1. N/A

DESIGN CRITERIA / PROPERTY INFO:

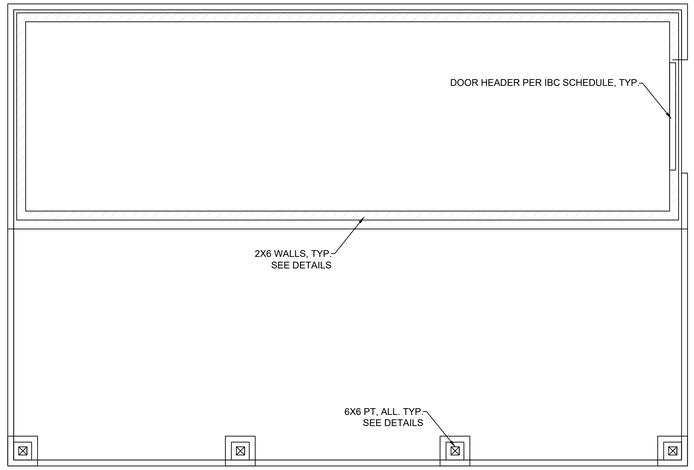
INFORMATION LISTED BELOW IS WHERE APPLICABLE FOR THIS PROJECT. SOME ITEMS MAY NOT BE RELEVANT.

1. PROPERTY/STRUCTURE/SITE INFO:
    - 1.1. ADDRESS: FRANCIS MARION UNIVERSITY, SLAVE CABINS, WALLACE WOODS RD (GATE 6), FLORENCE, SC
    - 1.2. AREAS:
        - 1.2.1. SEE ARCHITECTURAL PLANS
    - 1.3. HEIGHT/STORIES:
        - 1.3.1. <15' / 1
2. UTILITIES
    - 2.1. ELECTRICAL: DUKE PROGRESS
    - 2.2. WATER/SEWER: N/A
    - 2.3. PROPANE/NG: N/A
    - 2.4. COMMUNICATIONS: PER OWNER
3. WEATHER/ENVIRONMENT:
    - 3.1. EXTREME FROST DEPTH: 10"
    - 3.1. CONCRETE WEATHERABILITY: MODERATE
    - 3.1. TERMITE INFESTATION PROBABILITY: VERY HEAVY
    - 3.1. CLIMATE ZONE: 3



FOUNDATION PLAN

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

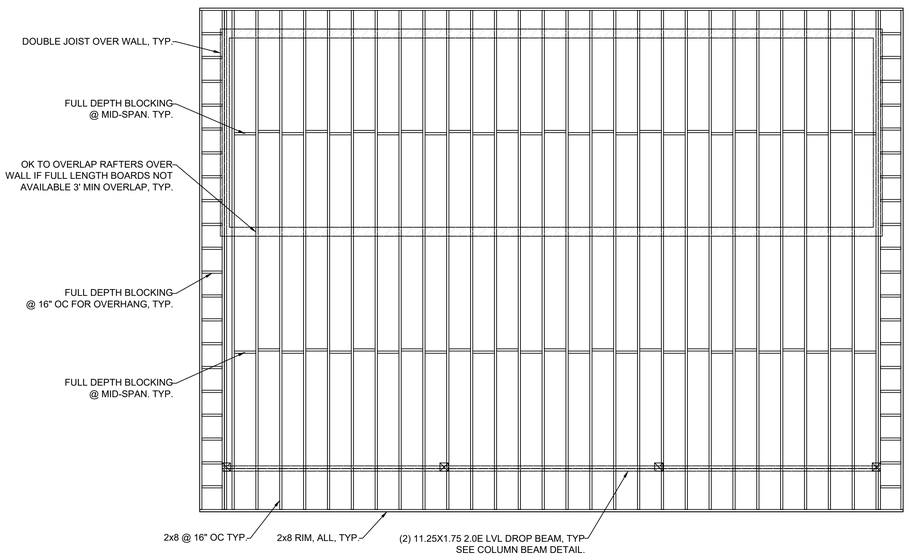


FRAMING PLAN

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

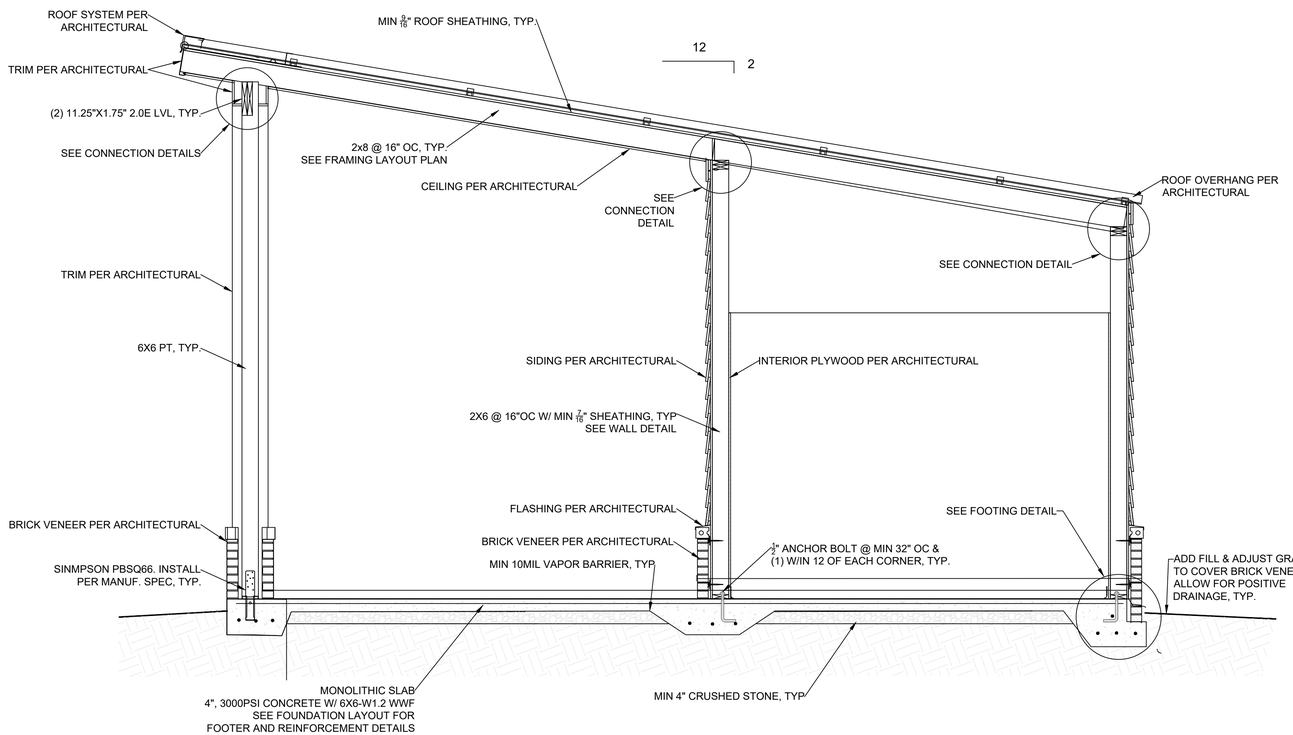
NOTES:

1. DIMENSIONS WHERE SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. ALL LAYOUT & ELEVATIONS TO BE PER ARCHITECTURAL PLANS.
2. ROOF OVERHANG PER ARCHITECTURAL. 24" MAX.
3. SEE DETAILS FOR ATTACHMENTS



ROOF FRAMING PLAN

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



CROSS SECTION PLAN

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

REVISIONS

HEWN TIMBER CABINS REFURBISHMENT, FMU
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA — M. Padgett Engineering & Construction, LLC — No. 5303 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 32976 — MICHAEL A PADGETT, JR.

2022.09.22

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MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

DATE
SEPTEMBER 22, 2022

COMMISSION NO.
2115

DRAWING NO.
S2

SHEET DESCRIPTION
STRUCTURAL LAYOUT PLANS

DWN: AM | CHK: MP

BID DOCUMENTS

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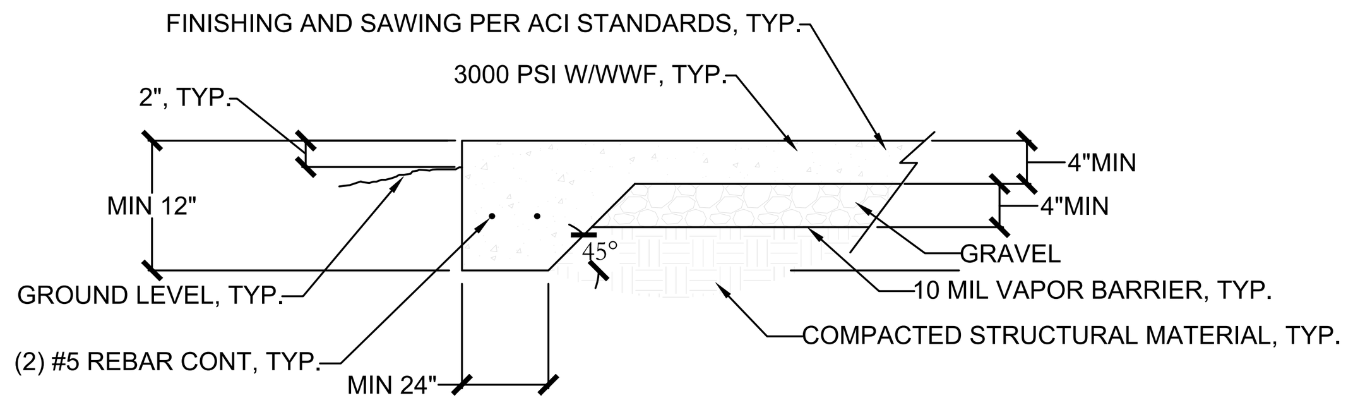
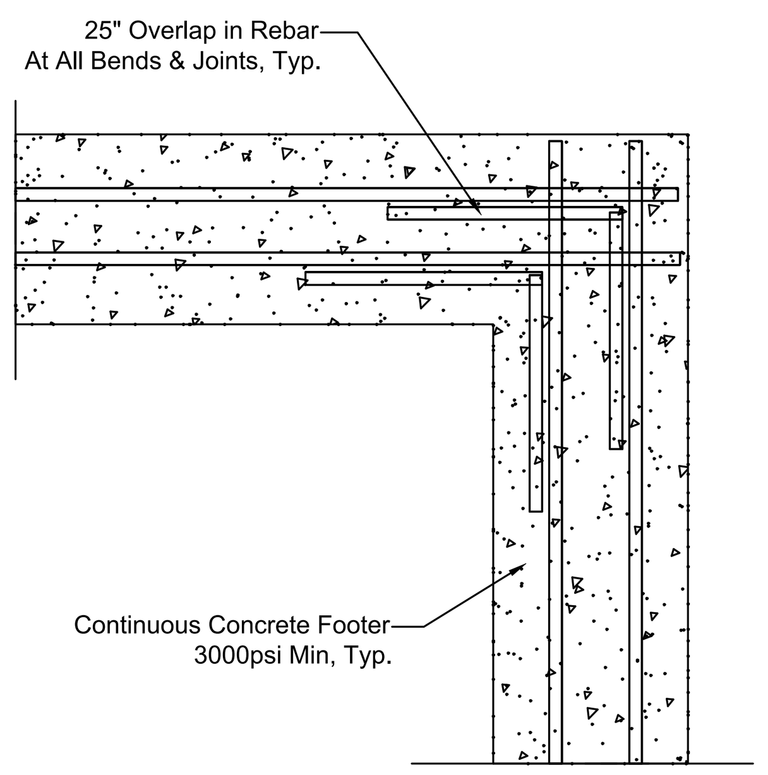
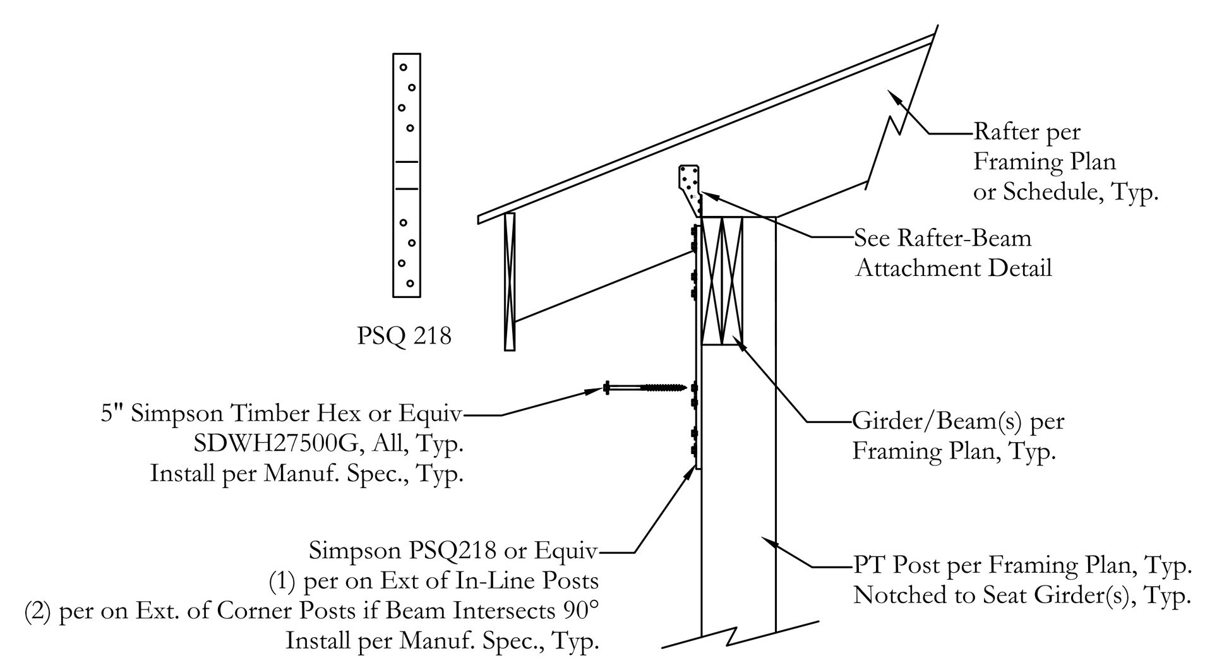
PROJECT NO.
H18-9583-SG-A



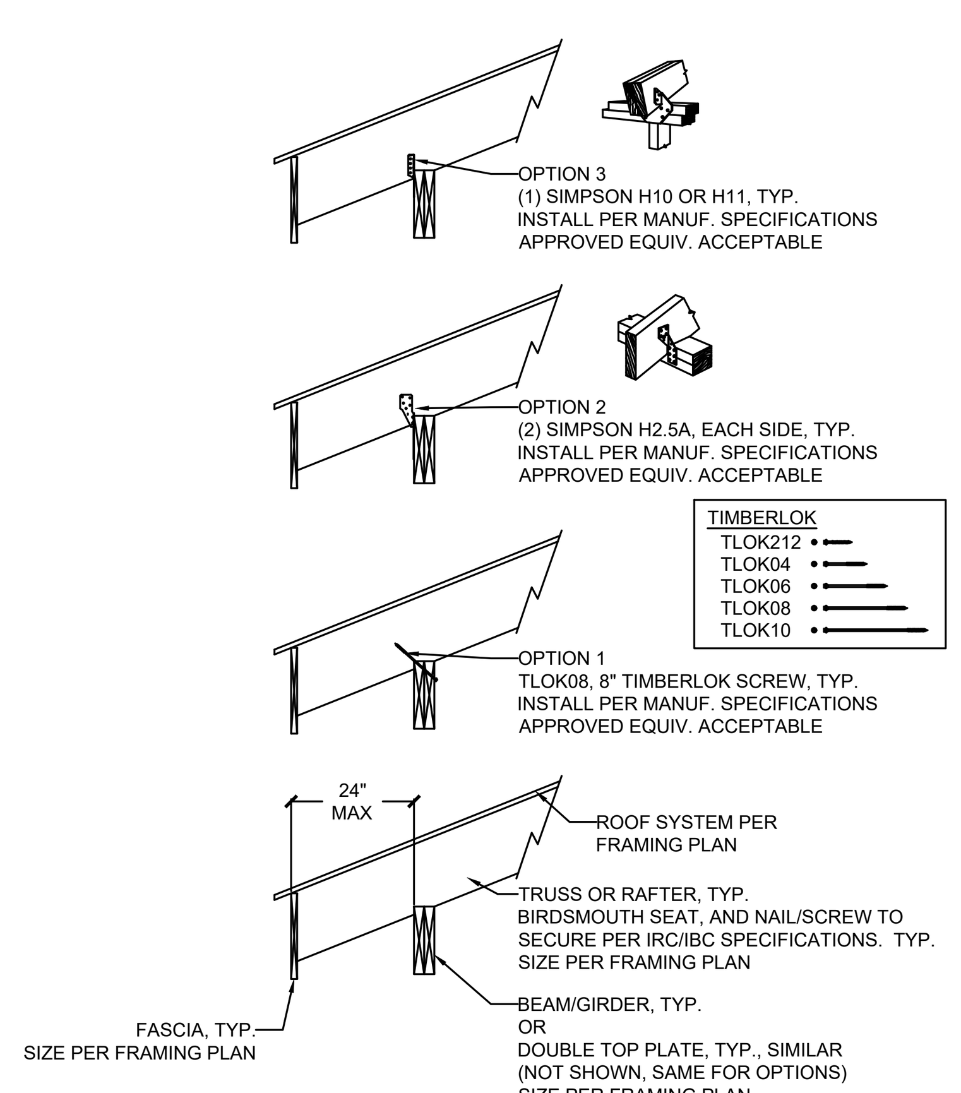
SLAB EDGE, TYP.



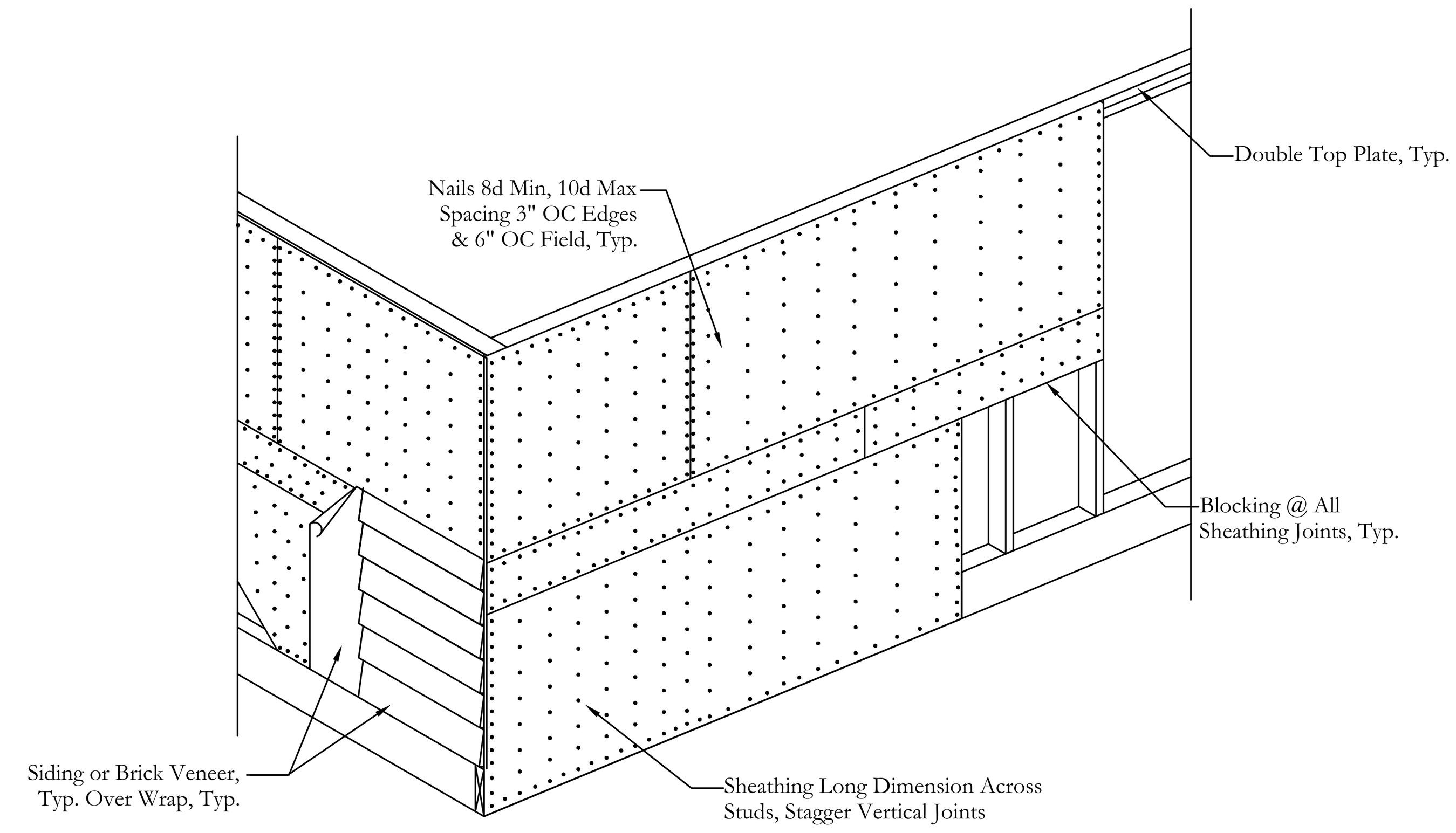
Rebar Overlap in Turndown



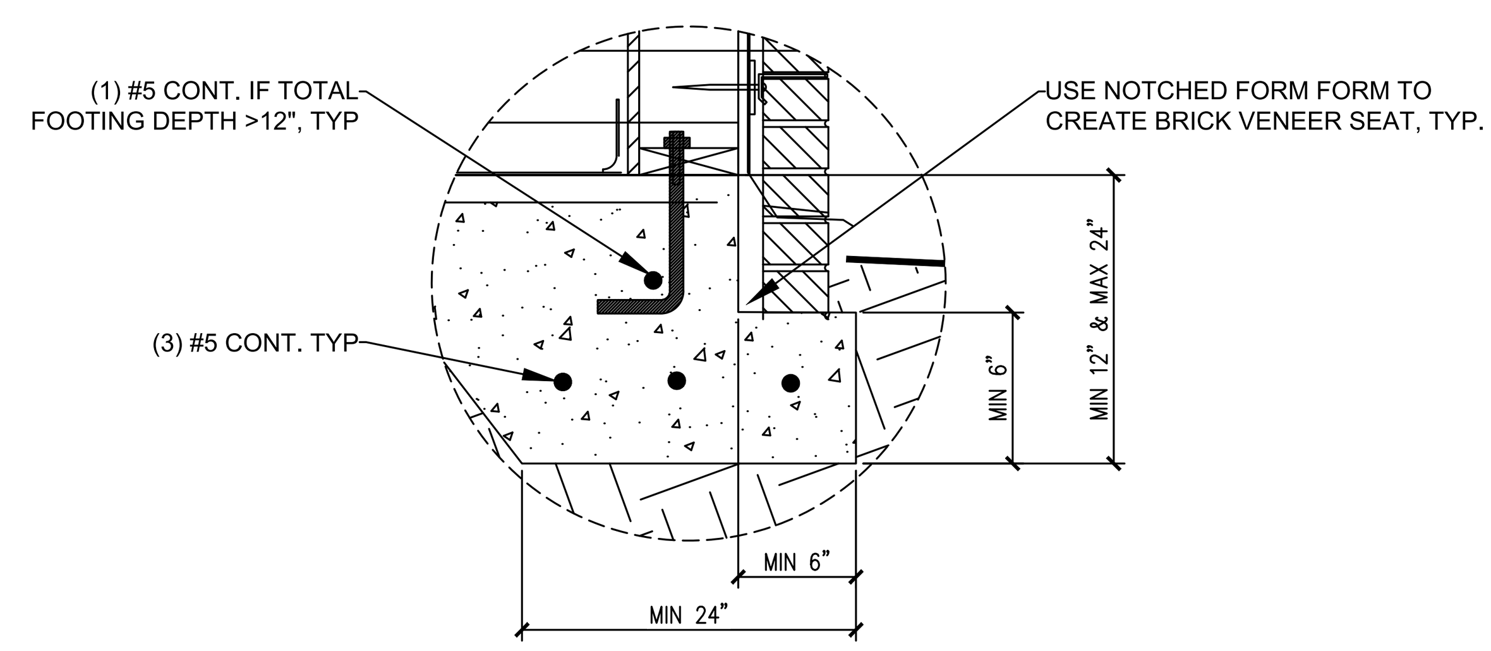
Column-Girder Attachment



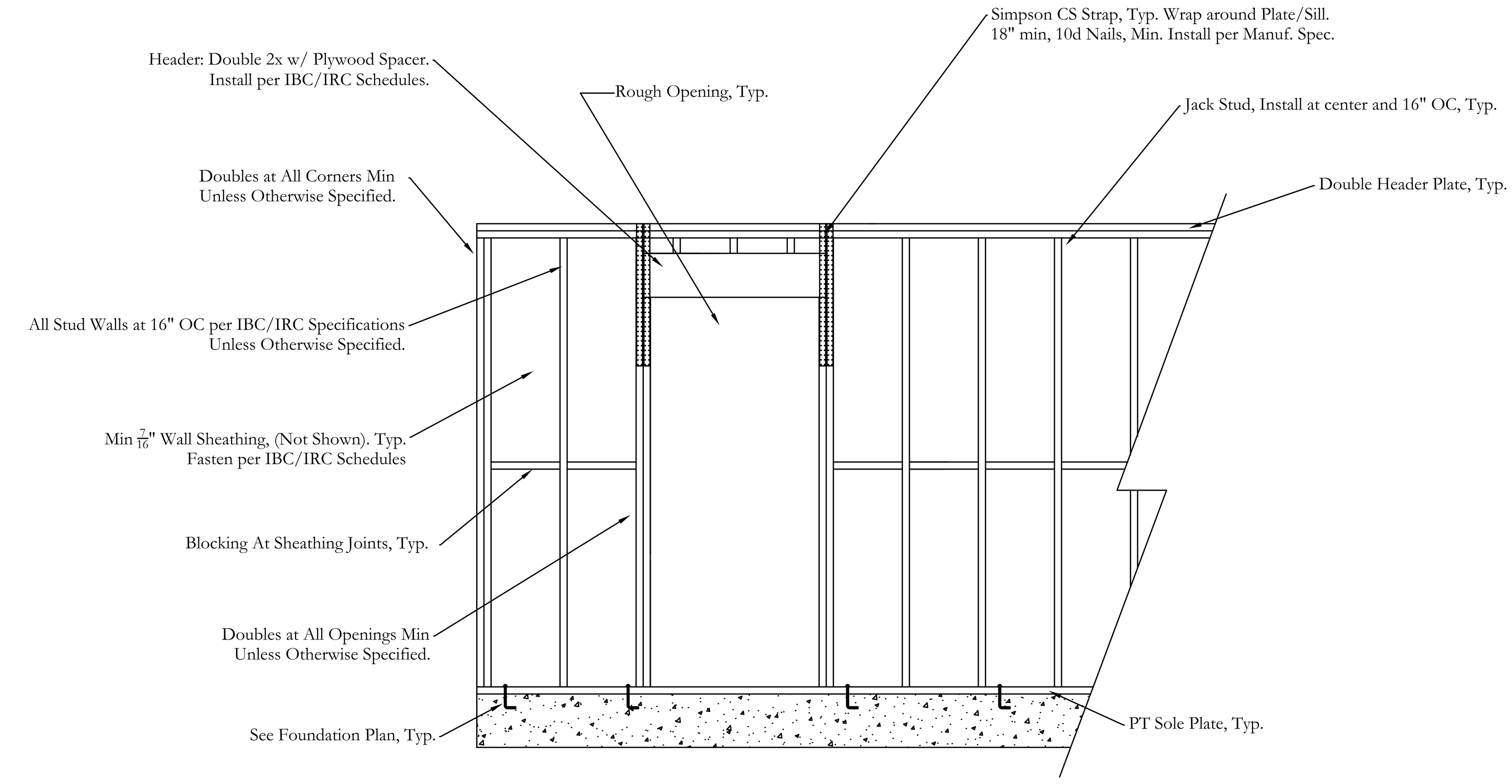
RAFTER TO GIRDER/TOP-PLATE ATTACHMENT
W/ STRAPPING OPTIONS



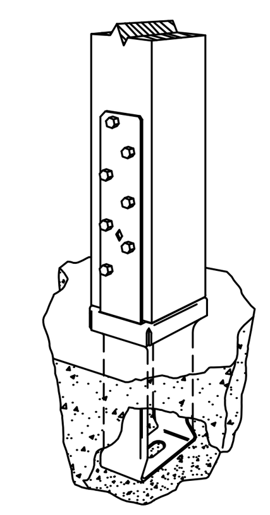
Wall Sheathing Detail



NOTCHED FOOTER FOR BRICK VENEER WHERE
NEEDED FOR GRADE DIFFERENTIAL



Wall, Header, Jack Stud, Openings, Detail



SIMPSON CBSQ DETAIL

REVISIONS

HEWN TIMBER CABINS REFURBISHMENT, FMU
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA
M. Padgett Engineering & Construction, LLC
No. 5303
CERTIFICATE OF AUTHORIZATION

No. 32976
MICHAEL A PADGETT JR
2022.09.22

F W ARCHITECTS, INC.
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DATE	SEPTEMBER 22, 2022
COMMISSION NO.	2115
DRAWING NO.	S3
SHEET DESCRIPTION	STRUCTURAL DETAILS
DWN: AM	CHK: MP

BID DOCUMENTS

M P E&C — M. Padgett Engineering & Construction, LLC

PROJECT NO.
H18-9583-SG-A

ELECTRICAL NOTES:

NOTES LISTED BELOW AND HEREIN ARE WHERE APPLICABLE FOR THIS PROJECT. SOME NOTES MAY NOT BE RELEVANT.

GENERAL NOTES:

1. THE REQUIREMENTS OF THESE GENERAL NOTES SHALL APPLY TO ALL ELECTRICAL AND MECHANICAL WORK. INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE, STATE AND LOCAL CODES AND THE LATEST AMENDMENTS THERETO.
2. THE WORK COVERED BY THIS CONTRACT CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL MECHANICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED. MATERIALS OR PRODUCTS SPECIFIED BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS THEY ARE SUBMITTED FOR REVIEW TO USE AND APPROVED BY THE ARCHITECT.
3. FURNISH COPIES OF SHOP DRAWINGS OF EQUIPMENT OR FIXTURES FOR APPROVAL PRIOR TO PURCHASING.
4. CONTRACTOR AND SUB-CONTRACTORS SHALL COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, PLUMBING AND ALL OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE. ALL OPENINGS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH U.L. LISTED PENETRATION AND SHALL MAINTAIN THE FIRE RATED INTEGRITY OF THE WALL OR FLOOR. THE CONTRACTOR SHALL VERIFY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. SUBMIT U.L. PENETRATION DETAILS WITH SHOP DRAWINGS FOR ENGINEER'S REVIEW. MINIMUM RATINGS SHALL BE AS FOLLOWS: WALLS - F=1, T=0; FLOOR - F=1, T=1.
5. CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING IN COLORED PENCIL ON BLACK LINE PRINTS ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSIONS OF BURIED UTILITY LINES FROM BUILDING WALLS.
6. ALL WORK SHALL BE GUARANTEED, BOTH MATERIAL AND INSTALLATION, FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE BY OWNER.
7. ALL OTHER MATERIALS NOT SPECIFIED ELSEWHERE HEREIN TO BE OF PROPER DESIGN, PROPER QUALITY AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
8. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO BE READ OR CALCULATED.
9. WORK NOT INDICATED AS PART OF DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT AT CORRESPONDING PLACES SHALL BE REPEATED.
10. ALL SECTIONS AND DETAILS ARE TYPICAL AT SIMILAR LOCATIONS AND WHERE APPLICABLE.
11. THE DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF MEMBER UNITS SHALL BE CONSIDERED IN THE BUILDING AND LAYOUT PLAN.
12. DUCTS, PIPING, CONDUIT AND SIMILAR COMPONENTS SPECIFIED IN COMMON SIZES UNLESS SPECIFICALLY NOTED.
13. THESE PLANS ARE THE PROPERTY OF MPE&C ONLY. ANY UNAUTHORIZED USE, REPRODUCTION, OR OTHERWISE IS PROHIBITED. DOING SO IS SUBJECT TO PROSECUTION.
14. THESE PLANS ARE SITE SPECIFIC TO THIS PARTICULAR PROJECT, SITE, AND LOCATION ONLY.

ELECTRICAL NOTES:

1. DO NOT SCALE DRAWING. ROUGH-IN DIMENSIONS PER EQUIPMENT MANUFACTURER AND ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
3. CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
4. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.
5. CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.
6. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
7. ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT 1/2" CONDUIT MINIMUM OR EQUIVALENT METAL CLAD (MC) WIRING.
8. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
9. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
10. 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 THE OTHER.
11. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
12. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.
13. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NED OR AS SHOWN, CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
14. FINAL EQUIPMENT CONNECTIONS - THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC., WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.
15. IF REQUIRED BY CODE, CONTRACTOR SHALL FURNISH & INSTALL FIRE ALARM SYSTEM WHICH CONFORMS TO ALL NATIONAL, STATE, & LOCAL CODES. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ENGINEER/ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT & WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT & WIRING AS DIRECTED BY SYSTEM SUPPLIER.
16. CONTRACTOR SHALL PROVIDE ARC-FLASH WARNING LABELS COMPLYING WITH NEC ARTICLE 110.16 ON NEW ELECTRICAL EQUIPMENT OR EXISTING EQUIPMENT THAT IS MODIFIED.
17. NEW PANELBOARDS SHALL BE IDENTIFIED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
18. FOR 120 OR 208V CIRCUITS, CONTRACTOR SHALL INCREASE WIRE SIZE FROM THAT SHOWN ONE SIZE A.W.G. FOR EVERY 100' HOMERUN LENGTH, AND ONE SIZE EVERY 200' FOR 277V OR 480V CIRCUITS.
19. CONTRACTOR SHALL LABEL ELECTRICAL SERVICE EQUIPMENT WITH AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC 110.24.
20. CONTRACTOR SHALL LABEL ELECTRICAL PANELBOARDS WITH EQUIPMENT WHERE FEEDER ORIGINATES IN ACCORDANCE WITH NEC 408.4(B).

OTHER:

1. ALL OTHER MATERIALS NOT SPECIFIED ELSEWHERE HEREIN TO BE OF PROPER DESIGN, PROPER QUALITY AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

CONSTRUCTION:

1. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF EXISTING FEATURES BEFORE STARTING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR JUSTIFICATION AND/OR CORRECTIONS. THE CONTRACTOR/OWNER SHALL ASSUME LIABILITY FOR ALL ERRORS THAT ARE NOT REPORTED. NOTE, THE INFORMATION PROVIDED IN THESE PLANS IS LIMITED TO THE VISUAL OBSERVATION AND INFORMATION PROVIDED BY THE CONTRACTOR AND/OR OWNER.
2. THE ENGINEER ASSUMES NO LIABILITY FOR ANY CHANGES OR MODIFICATIONS BY OTHERS MADE TO THE PLANS IN WHOLE OR IN PART.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL TRADES INVOLVED.
4. CONTRACTOR TO VERIFY WITH OWNER ALL SPECIFIC MAKES, MODELS, SIZES, ETC. OF ALL FIXTURES, FURNITURE, CABINETS, APPLIANCES, ETC. TO BE INSTALLED.
5. CONTRACTOR IS TO REVIEW ALL MECHANICAL SYSTEMS (INCLUDING BUT NOT LIMITED TO ELECTRICAL, HVAC, PLUMBING, ETC.) WITH OWNER PRIOR TO CONSTRUCTION. THIS INCLUDES TYPE, BRAND, QUALITY, ENERGY RATING, SIZE, ETC FOR EACH PARTICULAR SYSTEM AND ITS COMPONENTS.
6. ALL WORK SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES, AND REGULATIONS OF ALL APPROPRIATE REGULATING BODIES.
7. UNLESS NOTED, NO SOILS REPORT OR SITE CONDITION INFORMATION HAS BEEN PROVIDED TO THE ENGINEER. CONTRACTOR TO VERIFY GROUND AND SOILS CONDITIONS ARE ACCEPTABLE FOR CONSTRUCTION. ENGINEER SHALL NOT BE LIABLE FOR UNFORESEEN SITE OR SOIL CONDITIONS.
8. CONTRACTOR TO VERIFY IF TREE CONFLICTS EXIST PRIOR TO CONSTRUCTION.
9. ALL CONSTRUCTION METHODS, PRACTICES, AND MATERIALS TO FOLLOW CURRENT BUILDING CODE STANDARDS EXCEPT AS NOTED. THESE SHOULD ALSO BE PRE-APPROVED BY OWNER OR GENERAL CONTRACTOR IN CHARGE. ENGINEER SHALL NOT BE RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCES, ETC. OF CONSTRUCTION ACTIVITIES. SUPERVISION OF ALL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL CONSTRUCTION LAYOUT IS THE RESPONSIBILITY OF OWNER OR GENERAL CONTRACTOR IN CHARGE.
11. IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE MORE RIGID, ROBUST, STRONGER, ETC. TO BE ASSUMED TO PREVAIL UNLESS EXPLICITLY SPECIFIED BY ENGINEER.
12. WALL, FLOOR, CEILING PENETRATIONS TO BE PER CURRENT BUILDING CODE STANDARDS UNLESS OTHERWISE SPECIFIED.
13. CALL P.U.P.S. 811 BEFORE DIGGING.

ELECTRICAL PROJECT SPECIFIC NOTES:

1. N/A

POWER LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - NEMA 5-20R
WP	WEATHERPROOF RECEPTACLE - NEMA 5-20R - GFCI W/WET LOCATION COVER
	ELECTRICAL PANEL
S/O	SHUT OFF
MC	METER CAN
DC	DISCONNECT

NOTES:

1. CONTRACTOR TO VERIFY ALL NEW AND EXISTING CIRCUITS ON ALL BREAKER PANELS AND LABEL APPROPRIATELY.
2. WHERE APPROPRIATE, IN LIEU OF ADDING A NEW CIRCUIT, IT IS ACCEPTABLE TO CONNECT NEW FIXTURES, RECEPTACLES, AND SIMILAR TO THE CLOSEST AVAILABLE CIRCUIT.
3. CONTRACTOR TO VERIFY CIRCUIT HAS ADEQUATE AMPAGE TO HANDLE ADDITIONAL LOADS PLACED ON IT.

LIGHTING FIXTURE SCHEDULE

SYMBOL	ID	QTY	LOCATION	DESCRIPTION	MANUF.	CATALOG	MOUNT	V	NOTES
	A	3	INTERIOR	SURFACE MOUNTED TROFFER 2x4	LITHONIA	2VTLX	CEILING	120	1,3,7,8
	B	8	EXTERIOR	6" WAFER-THIN LED DOWNLIGHT	LITHONIA	WF6E	CEILING	120	1,2,3,5,7,8
	C	1	INTERIOR	EMERGENCY LIGHT FIXTURE WITH BACKUP BATTERY	TCP	LED20723	WALL	120	1,3,7,8
	D	1	EXTERIOR	DUAL LAMP EMERGENCY EGRESS LIGHT	LITHONIA	ELM4L	WALL	120	1,3,5,7,8
$				SWITCH	GENERIC, TYPICAL	TBD	WALL	120	1,2,3,5,7,8
				ELECTRICAL PANEL					
S/O				SHUT OFF					
MC				METER CAN					
DC				DISCONNECT					

NOTES:

1. MAKES AND MODELS LISTED FOR DESIGN PURPOSES ONLY. SUBSTITUTIONS OF EQUIVALENT MAKES AND MODELS ALLOWED IF CODE COMPLIANT AND APPROVED BY OWNER OR ARCHITECT.
2. EMERGENCY BATTERY PACK OR EQUIVALENT ON INDICATED FIXTURES.
3. COORDINATE HEIGHT WITH ARCHITECTURAL.
4. DAMP LOCATION RATED.
5. WET LOCATION RATED.
6. WITH COMPATIBLE LITHONIA WSX-D AND/OR SPOD OCCUPANCY SENSOR SWITCHES. SUBSTITUTION OF EQUIVALENT MAKES AND MODELS ALLOWED IF CODE COMPLIANT AND APPROVED BY OWNER OR ARCHITECT.
7. COORDINATE FINISHES W/ OWNER OR ARCHITECTURAL.
8. CONTRACTOR TO INCLUDE ANY ACCESSORIES/COMPONENTS REQUIRED TO COMPLETE FULL AND FUNCTIONAL LIGHTING SYSTEM I.E. SWITCHES, CONNECTORS, COVERS, LENSES, BULBS, ETC. CHECK MANUF. SPECIFICATIONS.

Panel Schedule

CKT #	Notes	Description	Load (KVA) [2] LTG	REC	MTR	H&C	OTH	KIT	Breakers[1] Amp	Pole	Phase /Leg	Breakers[1] Amp	Pole	Load (KVA) [2] LTG	REC	MTR	H&C	OTH	KIT	Description	Notes	CKT #
--		MAIN	--	--	--	--	--	--	100	--	--	100	--	--	--	--	--	--	--	--	--	--
1	1, 2, 5	Interior Lights	0.93						20	1	A	30	2				1.86			HVAC	3, 5	2
3	1, 2, 5	Exterior Lights	0.22						20	1	B						1.86			HVAC	3, 5	4
5	1, 2, 4, 5	Interior/Exterior Outlets		2.16					20	1	A	20	1									6
7									20	1	B	20	1									8
9									20	1	A	20	1									10
11									20	1	B	20	1									12
13									20	1	A	20	1									14
15									20	1	B	20	1									16

Panel Load Summaries

Load Type	Connected (KVA)	Factors	Demand (KVA)	Min Feeder Capacity	Notes
Lighting (NEC 220.42)	1.15	100.00%	1.15	1.15	1, 2
Receptacle - First 10 KVA (NEC 220.44)	2.16	100.00%	2.16	2.16	1, 2
50% Receptacle - Above 10 KVA (NEC 220.44)	0.00	50.00%	0.00	0.00	1, 2
Motors (NEC 220.14)	0.00	100.00%	0.00	0.00	1, 2
+25% Largest Motor (NEC 220.14)		25.00%		0.00	1, 2
100% Plate - HVAC (NEC 440 IV)	3.72	100.00%	3.72	3.72	1, 2, 7
+25% Largest Heater (NEC 440 IV)		25.00%		0.28	1, 2, 7
+25% Continuous Loads (NEC 220.10)		25.00%		0.00	1, 2
Other	0.00	100.00%	0.00	0.00	1, 2
Kitchen (NEC 220.56)	0.00	100.00%	0.00	0.00	1, 2
Spare Capacity		10.00%		0.73	1, 2
Total (KVA):	**7.03**		**7.03**	**8.05**	**1, 2, 6**
Total (A):	**29.30**		**29.30**	**33.53**	**1, 2, 6**

Connected Load:		KVA	AMPS
Phase/Leg:	A	4.95	20.6
Phase/Leg:	B	2.08	8.7
Phase/Leg:	C	0.00	0.0
Max Unbalanced:		2.87	11.94

Largest Heater (KVA):	1.13
Largest Motor (KVA):	0.00
Continuous Loads (KVA):	0.00

Existing Service

- **Service:** 240/120 V~, 1 Ph, 60 Hz
- **Voltage (V):** 240
- **Phase (PH):** 1
- **Service Amps (A):** 200
- **Feed:** Underground from Transformer
- **Shutoff, Meter & Socket:** Existing
- **Power Company:** Duke-Progress
- **Enclosure:** Existing
- **Location:** See Site Plan
- **Mounting:** Service Pedestal
- **Other:**

Interior Panel

- **Feed:** Underground from existing 200A service pedestal
- **Panel:** 100A
- **Enclosure:** Min NEMA 1
- **Location:** Interior, See Plans
- **Mounting:** Flush
- **Breakers:** See Notes
- **Other:**

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PROJECT NO.
H18-9583-SG-A

REVISIONS

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REFURBISHMENT, FMU
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FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA
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DATE
SEPTEMBER 22, 2022

COMMISSION NO.
2115

DRAWING NO.
ME1

SHEET DESCRIPTION
ELECTRICAL SCHEDULES & LEGENDS

DWN: AM | CHK: MP

BID DOCUMENTS

MECHANICAL NOTES:

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15. THE DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF MEMBER UNITS SHALL BE CONSIDERED IN THE BUILDING AND LAYOUT PLAN.
16. DUCTS, PIPING, CONDUIT AND SIMILAR COMPONENTS SPECIFIED IN COMMON SIZES UNLESS SPECIFICALLY NOTED.
17. THESE PLANS ARE THE PROPERTY OF MPE&C ONLY. ANY UNAUTHORIZED USE, REPRODUCTION, OR OTHERWISE IS PROHIBITED. DOING SO IS SUBJECT TO PROSECUTION.
18. THESE PLANS ARE SITE SPECIFIC TO THIS PARTICULAR PROJECT, SITE, AND LOCATION ONLY.

HVAC & MECHANICAL NOTES:

1. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE MECHANICAL SYSTEM.
2. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. CAREFUL ATTENTION SHALL BE PAID TO PRECISE LOCATION AND COORDINATION OF DIFFUSERS, REGISTERS, AND GRILLES WITH STRUCTURAL FRAMING AND ELECTRICAL FIXTURES AT CEILING LOCATIONS. ELECTRICAL FIXTURES AT CEILING TAKE PRIORITY OVER DUCT LAYOUT. ELECTRICAL FIXTURES AT CEILING ARE NOT TO BE MOVED FROM THEIR PROPOSED LOCATIONS. SEE THE REFLECTED CEILING PLANS, WHERE AVAILABLE, FOR EXACT LOCATIONS OF CEILING FIXTURES. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM STRUCTURAL ENGINEER.
3. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL NECESSARY FEES, PERMITS, AND TESTS.
4. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, ORDINANCES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. NO CONTRACTOR SHALL BID UNLESS FAMILIAR WITH THESE CODES. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT, PROFESSIONAL APPEARANCE WHEN COMPLETED. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED. STORE AND INSTALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HVAC SYSTEM(S) TO BE INSTALLED (REFRIGERANT LINES, EQUIPMENT, DUCTWORK, GRILLES, ETC.). ADDITIONAL OFFSETS, TRANSITIONS, ETC. MAY BE REQUIRED TO PROVIDE A COMPLETE SYSTEM. NO ABRUPT TRANSITIONS SHALL BE PERMITTED. THE MECHANICAL WORK HEREIN INCLUDES COMPLETE SYSTEMS OF HEATING, AIR CONDITIONING (TEMPERATURE AND HUMIDITY CONTROL), VENTILATION, BATHROOM EXHAUST, KITCHEN EXHAUST, AND ALL DUCTWORK. THE CONTRACTOR SHALL PROVIDE EACH ELEMENT THEREOF, AS INDICATED HEREIN, OR REASONABLY INFERRED (WHETHER OR NOT SPECIFICALLY CALLED FOR BY ITEM), REASONABLY NECESSARY TO FACILITATE EACH SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SPECIFIED. CONTRACTOR SHALL VERIFY SPACE CONDITIONS PRIOR TO THE FABRICATION OR INSTALLATION OF ANY WORK.
6. THE CONDENSING UNIT AND AIR HANDLING UNIT EQUIPMENT SHALL BE AS SPECIFIED OR ARCHITECT APPROVED SUBSTITUTE.
7. PRIOR TO START OF HVAC WORK, IF ANY PRODUCTS OR MATERIALS (i.e. BUILDING ENVELOPE INSULATION, EXTERIOR DOORS, GLAZING, AND ANY OTHER APPLICABLE FACTORS THAT WOULD AFFECT THE LOAD ANALYSIS) ARE CHANGED OR MODIFIED FROM ORIGINAL HVAC DESIGN, A NEW LOAD ANALYSIS MUST BE PERFORMED. IT IS THE HVAC INSTALLING CONTRACTOR'S RESPONSIBILITY TO PERFORM THIS ANALYSIS OR PROVIDE THE NEW INFORMATION TO THE ENGINEER TO REVISE THE LOAD ANALYSIS. IF ANY CHANGES HAVE BEEN MADE AND ARE NOT APPROVED BY THE ENGINEER, THE HVAC CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR THE RESULTS OF THE HVAC DESIGN AND SYSTEM PERFORMANCE.
8. NO CHANGES TO THE HVAC PLANS OR NOTES SHALL BE PERMITTED WITHOUT PRIOR APPROVAL.
9. REFRIGERANT PIPING SHALL BE TYPE "L" SOFT DRAWN COPPER, ASTM B280, AND SHALL BE MILL CLEANED, DRIED AND CAPPED. INSULATE REFRIGERANT SUCTION LINE WITH " WALL FOAMED PLASTIC INSULATION SLIPPED OVER TUBING AND ALL JOINTS THOROUGHLY SEALED. PAINT REFRIGERANT PIPING INSULATION WITH TWO (2) COATS OF ACRYLIC PROTECTIVE PAINT WHERE INSULATION IS EXPOSED TO WEATHER.
10. ALL FIBERGLASS DUCTWORK SHALL BE 1-1/2" FIBROUS GLASS ANTI-MICROBIAL DUCTBOARD INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF S.M.A.C.N.A. FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. 1" FIBROUS GLASS ANTI-MICROBIAL DUCTBOARD MAY BE USED IN THOSE LOCATIONS WHERE ALLOWED BY CODE. NO ABRUPT TRANSITIONS SHALL BE PERMITTED. PROVIDE AIR TURNING VEINS IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
11. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE TYPE WITH 1-1/2" ONE-POUND DENSITY INSULATION AND VINYL VAPOR BARRIER OR ARCHITECT APPROVED SUBSTITUTE. NO ABRUPT TRANSITIONS SHALL BE PERMITTED.
12. DUCT SIZES SHOWN ARE INSIDE NET DIMENSIONS.
13. ALL AIR DEVICES SHALL BE MANUFACTURED BY TITUS, 250 SERIES, OR APPROVED SUBSTITUTE. COLOR TO BE APPROVED BY THE PROFESSIONAL OF RECORD PRIOR TO PAINTING GRILLES BUT ASSUMED TO BE WHITE FOR BID/BUDGET PURPOSES. SUPPLY AIR REGISTERS SHALL BE DOUBLE DEFLECTION TYPE WITH OPPOSED BLADE DAMPERS. ALL SIZES AND PATTERNS ARE NOTED ON THE MECHANICAL PLANS.
14. FOR EACH RETURN AIR GRILLE, PROVIDE 3M FILTRETE 1000 MICRO ALLERGEN PLEATED AIR FILTERS (3M, 800-49403552, www.filtrete.com, MERV RATING: 11, PRESSURE DROP: .2 @ 300 FPM, OR APPROVED SUBSTITUTE). PRIOR TO INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THE AIR VELOCITY NOISE ACROSS EACH RETURN AIR FILTER WILL BE LOW, BASED ON THE PRESSURE DROP FOR PROPOSED FILTER TYPE AND THE PROPOSED RETURN AIR GRILLE SIZE(S). ANY RETURN AIR FILTER GRILLES THAT ARE REQUIRED TO BE RESIZED BY THE CONTRACTOR, ARE TO BE SIZED FOR FILTER SIZES THAT ARE READILY AVAILABLE AT HOME SUPPLY STORES. CUSTOM SIZES ARE NOT PERMITTED.
15. ALL BATH, KITCHEN, AND DRYER EXHAUST(S) SHALL BE VENTED TO THE EXTERIOR.
16. ALL BATH EXHAUST FANS SHALL BE DUCTED WITH 4" T-FIN. SLOPE AND FULLY SUPPORT ALL BATHROOM EXHAUST DUCTS TO AVOID ANY SNAGS IN THE DUCT AND TO ALLOW FOR PROPER DRAINAGE. TERMINATE AT SOFFIT WITH SCREENED GRILLE, UNLESS OTHERWISE NOTED.
17. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST FANS.
18. ALL EXHAUST AIR DUCTS SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
19. TESTING, ADJUSTING, AND BALANCING: THE CONTRACTOR SHALL BALANCE THE AIRFLOW DISTRIBUTION SYSTEMS, INCLUDING SUB MAINS, BRANCHES, AND TERMINALS TO QUANTITIES INDICATED ON THE UPDATED MANUAL J LOAD ANALYSIS (FOR RESIDENTIAL PROPERTIES) AND MANUAL N (COMMERCIAL PROPERTIES).
20. PROVIDE DRAW-THROUGH CONDENSATE TRAP AT EACH UNIT CONDENSATE DRAIN. DEPTH SHALL BE AT LEAST 1-1/2 TIMES THE TOTAL S.P DROP OF THE UNIT.
21. PROVIDE PROGRAMMABLE SERIES 7-DAY THERMOSTAT. PRIOR TO ORDERING THE THERMOSTAT, THE CONTRACTOR SHALL VERIFY THAT THE SPECIFIED THERMOSTAT WILL OPERATE PROPERLY WITH THE PROPOSED AIR CONDITIONING EQUIPMENT. IF A SUBSTITUTE IS REQUIRED, CONTRACTOR MUST SUBMIT PRODUCT INFORMATION TO ARCHITECT FOR PRODUCT APPROVAL. COORDINATE THERMOSTAT LOCATION WITH FURNITURE/EQUIPMENT LAYOUTS, WINDOWS AND DOOR SWINGS. THERMOSTAT MUST BE LOCATED AT 54" A.F.F. AND NOT LOCATED ON AN OUTSIDE WALL.
22. SUPPLY AND RETURN AIR GRILLES SHALL MAINTAIN A MINIMUM DISTANCE OF 3'-0" FROM CEILINGS FANS.
23. ALL DUCT BRANCHES, PER ACCA MANUAL D, SHOULD INCLUDE DAMPERS FOR PROPER AIR FLOW AND BALANCING.
24. NO EQUIPMENT SHALL BE PURCHASED UNTIL REVIEW BY THE PROFESSIONAL OF RECORD, EVEN IF EQUIPMENT HAS BEEN SPECIFIED.
25. ANY VARIATION FROM THE DESIGN PRESENTED COULD AFFECT SYSTEM PERFORMANCE.
26. EQUIPMENT SHALL BEAR A U.L. OR OTHER RECOGNIZED LABEL, NAMEPLATES, WIRING DIAGRAMS, AND ENERGY RATINGS, AS APPLICABLE.
27. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ACCESSORIES SO THAT IT IS READILY ACCESSIBLE FOR SERVICING, TESTING, BALANCING AND REPLACEMENT.
28. CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE AGAINST DEFECTS IN ALL MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM ACCEPTANCE WITH FOUR ADDITIONAL YEARS OF WARRANTY ON COMPRESSORS.
29. PRIOR TO ACCEPTANCE BY THE OWNER, THE SYSTEMS SHALL BE TESTED AND BALANCED BY AN AABC OR NEBB CERTIFIED T&B CONTRACTOR EXPERIENCED WITH THIS SYSTEM. THE CONTRACTOR SHALL CERTIFY THE TESTING AND BALANCING WITHIN +/- 10% OF DESIGN CFMS AND PROVIDE BALANCE TEST SHEETS.
30. AIR BALANCE TO BE PERFORMED BY THE AIR CONDITIONING CONTRACTOR TO THE OWNER'S COMFORT. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND LOCAL BUILDING CODES.
31. PROVIDE ALL CONTROLS, STARTERS, CONTROL WIRING, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. MECHANICAL CONTRACTOR IS TO COORDINATE WITH OTHER CONTRACTORS TO ENSURE THAT ALL ITEMS REQUIRED ARE INCLUDED IN INSTALLATION.
32. COORDINATE ALL POWER AND CONTROL WIRING WITH ELECTRICIAN.

NOTES & OPTIONS: FOR INDOOR UNITS

1. NORMAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NORMAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43° (WB).
3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH.
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR VS OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM. PARTIAL CORRECTED CAPACITY ASSUMED SUFFICIENT DIVERSITY EXISTS SUCH THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY.
5. IT IS RECOMMENDED TO ALWAYS BASE HEATING CORRECTED CAPACITY ON FULL DEMAND.

NOTES & OPTIONS: FOR OUTDOOR UNITS

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT 80/67° (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHR 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATED TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE.
5. ADDED FILED CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.

OTHER:

1. ALL OTHER MATERIALS NOT SPECIFIED ELSEWHERE HEREIN TO BE OF PROPER DESIGN, PROPER QUALITY AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

CONSTRUCTION:

1. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF EXISTING FEATURES BEFORE STARTING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR JUSTIFICATION AND/OR CORRECTIONS. THE CONTRACTOR/OWNER SHALL ASSUME LIABILITY FOR ALL ERRORS THAT ARE NOT REPORTED. NOTE, THE INFORMATION PROVIDED IN THESE PLANS IS LIMITED TO THE VISUAL OBSERVATION AND INFORMATION PROVIDED BY THE CONTRACTOR AND/OR OWNER.
2. THE ENGINEER ASSUMES NO LIABILITY FOR ANY CHANGES OR MODIFICATIONS BY OTHERS MADE TO THE PLANS IN WHOLE OR IN PART.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL TRADES INVOLVED.
4. CONTRACTOR TO VERIFY WITH OWNER ALL SPECIFIC MAKES, MODELS, SIZES, ETC. OF ALL FIXTURES, FURNITURE, CABINETS, APPLIANCES, ETC. TO BE INSTALLED.
5. CONTRACTOR IS TO REVIEW ALL MECHANICAL SYSTEMS (INCLUDING BUT NOT LIMITED TO ELECTRICAL, HVAC, PLUMBING, ETC.) WITH OWNER PRIOR TO CONSTRUCTION. THIS INCLUDES TYPE, BRAND, QUALITY, ENERGY RATING, SIZE, ETC FOR EACH PARTICULAR SYSTEM AND ITS COMPONENTS.
6. ALL WORK SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES, AND REGULATIONS OF ALL APPROPRIATE REGULATING BODIES.
7. UNLESS NOTED, NO SOILS REPORT OR SITE CONDITION INFORMATION HAS BEEN PROVIDED TO THE ENGINEER. CONTRACTOR TO VERIFY GROUND AND SOILS CONDITIONS ARE ACCEPTABLE FOR CONSTRUCTION. ENGINEER SHALL NOT BE LIABLE FOR UNFORESEEN SITE OR SOIL CONDITIONS.
8. CONTRACTOR TO VERIFY IF TREE CONFLICTS EXIST PRIOR TO CONSTRUCTION.
9. ALL CONSTRUCTION METHODS, PRACTICES, AND MATERIALS TO FOLLOW CURRENT BUILDING CODE STANDARDS EXCEPT AS NOTED. THESE SHOULD ALSO BE PRE-APPROVED BY OWNER OR GENERAL CONTRACTOR IN CHARGE. ENGINEER SHALL NOT BE RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCES, ETC. OF CONSTRUCTION ACTIVITIES. SUPERVISION OF ALL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL CONSTRUCTION LAYOUT IS THE RESPONSIBILITY OF OWNER OR GENERAL CONTRACTOR IN CHARGE.
11. IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE MORE RIGID, ROBUST, STRONGER, ETC. TO BE ASSUMED TO PREVAIL UNLESS EXPLICITLY SPECIFIED BY ENGINEER.
12. WALL, FLOOR, CEILING PENETRATIONS TO BE PER CURRENT BUILDING CODE STANDARDS UNLESS OTHERWISE SPECIFIED.
13. CALL P.U.P.S. 811 BEFORE DIGGING.

MECHANICAL PROJECT SPECIFIC NOTES:

1. CONTRACTOR TO PROVIDE STRUTS, BRACING, FRAMING, ETC. AS NECESSARY TO SUPPORT AHU FROM CEILING

EQUIPMENT SCHEDULE

CONDENSING UNIT	CU NUMBER	**CU-1**
	NOMINAL TONNAGE	1.00
	MODEL	SUZ-KA12NA(H)2
	SEER/EER/HSPF	22.0/13.3/11.4
	CAPACITY TOTAL/SENS.	12000/8880
	STAGES	Single
	RLA - LRA	6.6 - 8.2
	Voltage	208/230 X 460
	Phase	Single X Three
	MCA/MOP	9/16
	WEIGHT	81.0
AIR HANDLER	AHU NUMBER	**AHU-1**
	AHU-MODEL	SLZ-KF12NA
	STATIC PRESSURE	0.50
	REFRIGERANT	R-410A
	LOCATION	Main Room
	CFM	335
	FAN MOTOR HP - FLA	1/3 - 0.24
	ELECTRIC HEATER Voltage	208 X 230 X 460
	Phase	Single X Three
	kW	1.13 (208V)
	Model Number	SLZ-KF12NA
	MCA/MOP	N/A
	DIMENSIONS H x W x D	8-3/16 x 22-7/16 x 22-7/16
	WEIGHT	36.0
	REF LINES SIZES	3/8, 1/4
	NOTES: Mitsubishi	

OUTSIDE AIR SCHEDULE per IMC TABLE 403.3

SPACE	NET OCCUPIED	ACTUAL OCCUPANCY	CFM P/P	CFM / FT²	VENTILATION PROVIDED	EXHAUST
AHU-1						
STORAGE	381	0	10	0.06	23 cfm	N/A

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PROJECT NO.
H18-9583-SG-A

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SOUTH CAROLINA — M. Padgett Engineering & Construction, LLC — No. 5303 — CERTIFICATE OF AUTHORIZATION

MICHAEL A. PADGETT, JR. — No. 32976 — REGISTERED PROFESSIONAL ENGINEER

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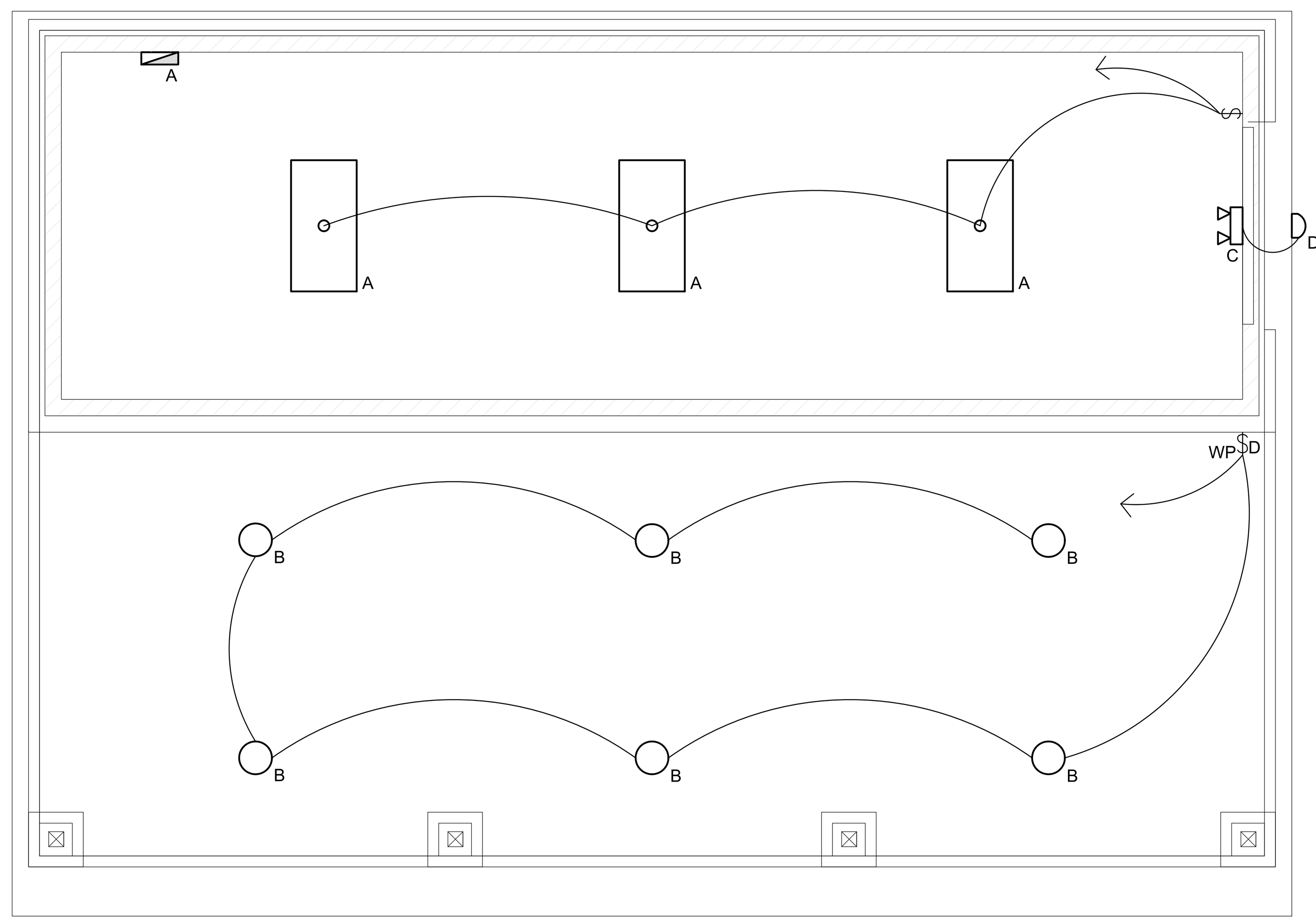
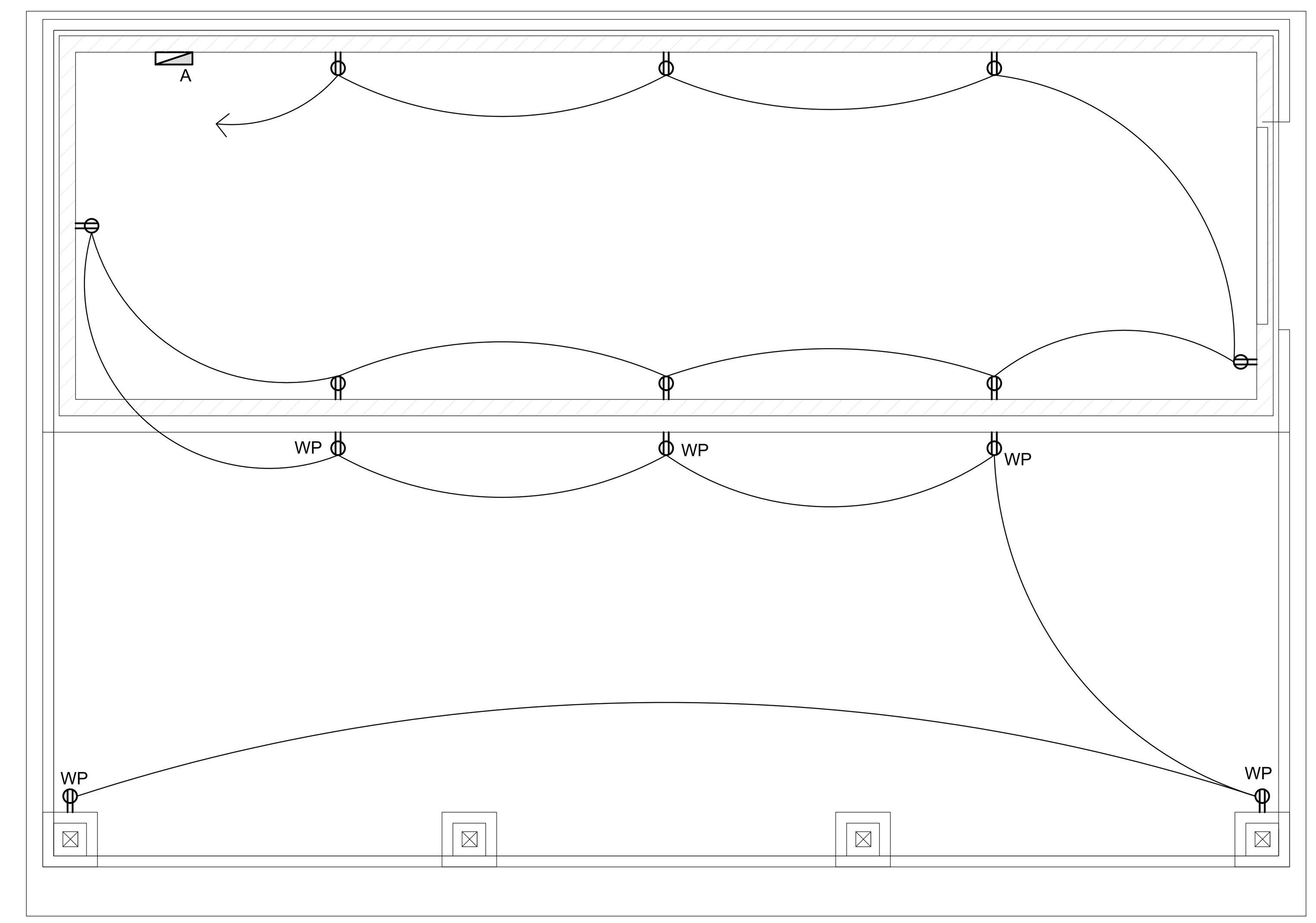
DATE
SEPTEMBER 22, 2022
COMMISSION NO.
2115
DRAWING NO.
ME2
SHEET DESCRIPTION
MECHANICAL SCHEDULES & LEGENDS
DWN: AM CHK: MP

BID DOCUMENTS



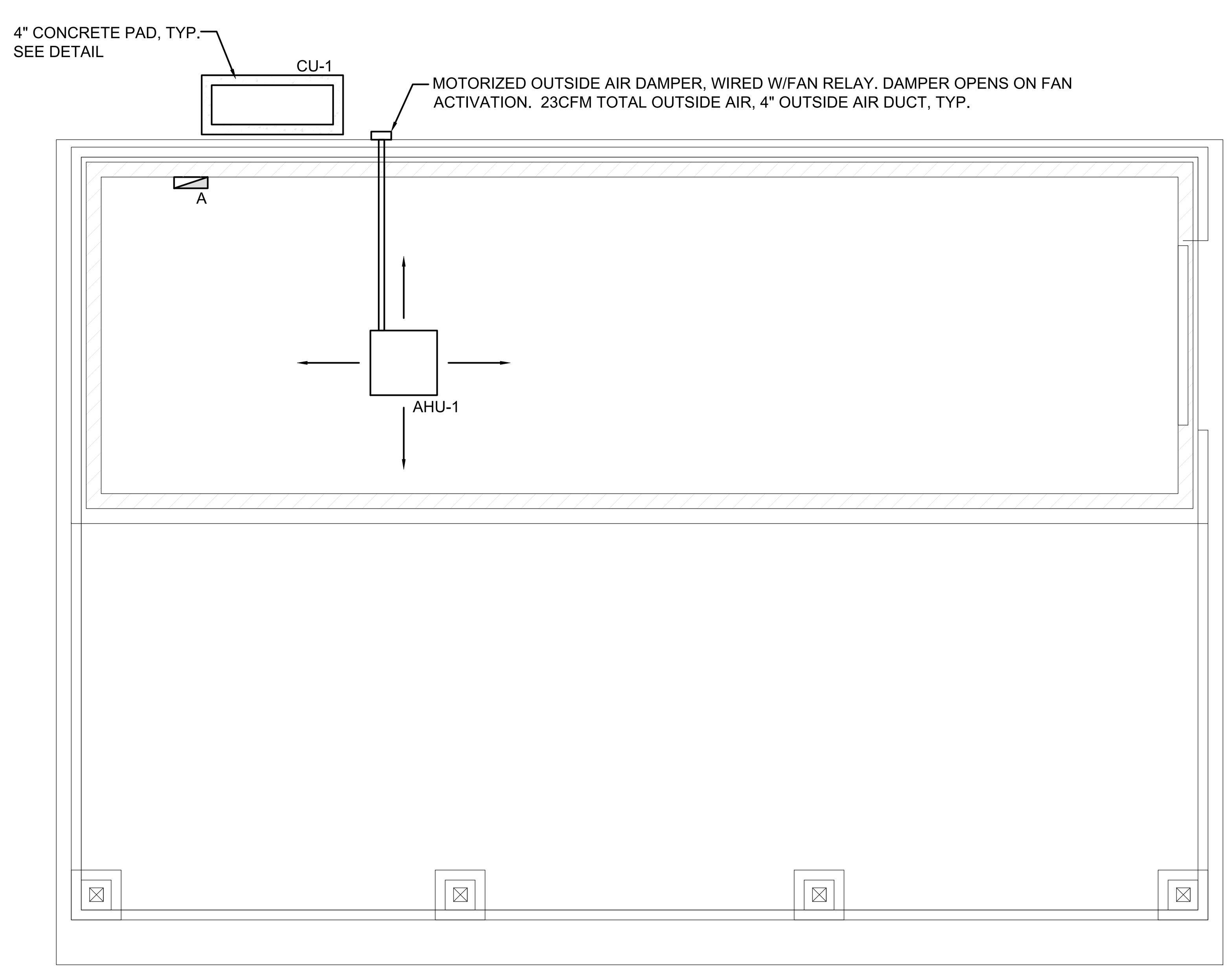
FLOOR PLAN - LIGHTING

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



FLOOR PLAN - POWER

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



FLOOR PLAN - HVAC

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

REVISIONS

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DATE	SEPTEMBER 22, 2022
COMMISSION NO.	2115
DRAWING NO.	ME3
SHEET DESCRIPTION	MEP LAYOUT PLANS
DWN: AM	CHK: MP

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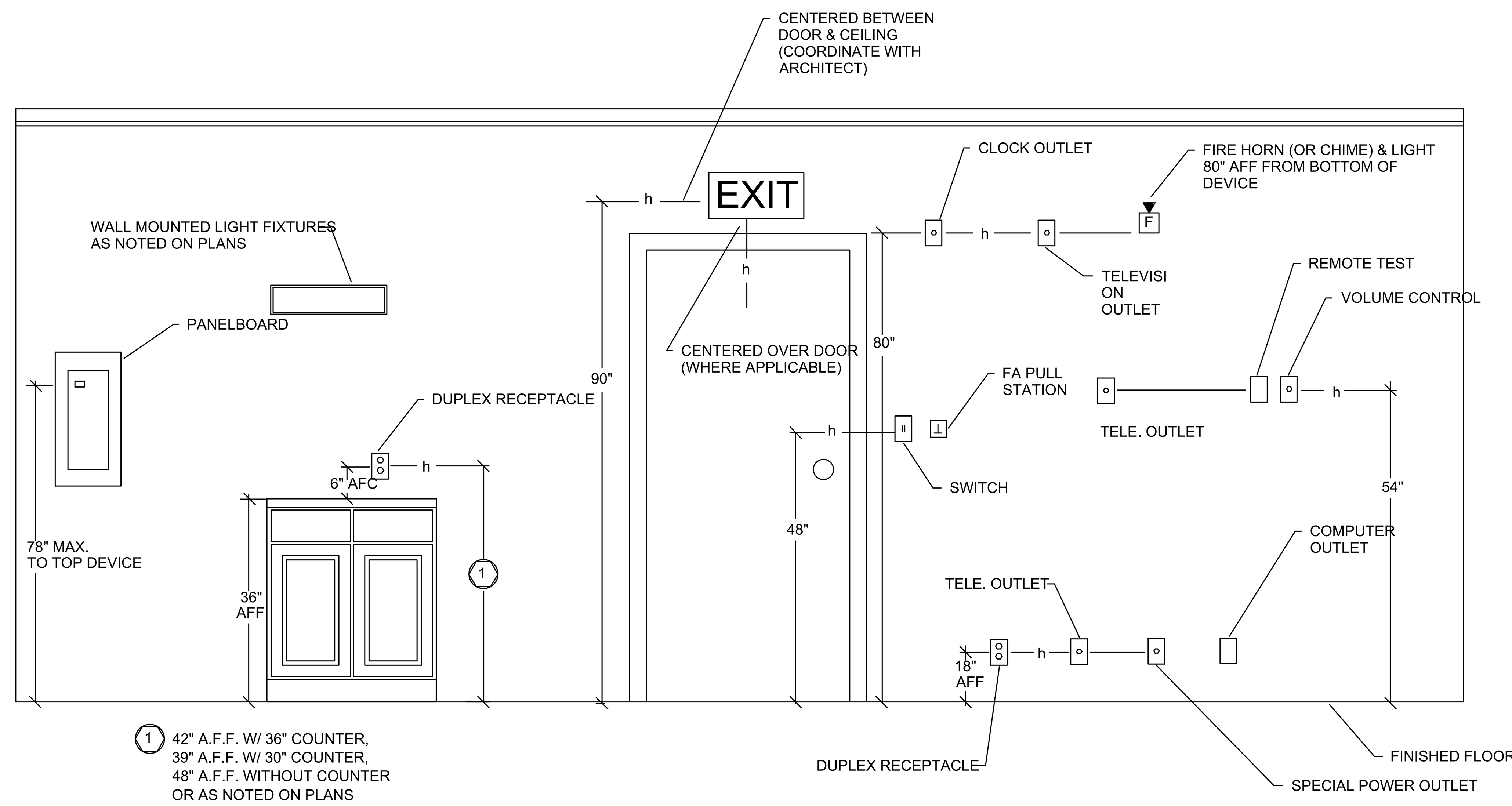
PROJECT NO.
H18-9583-SG-A

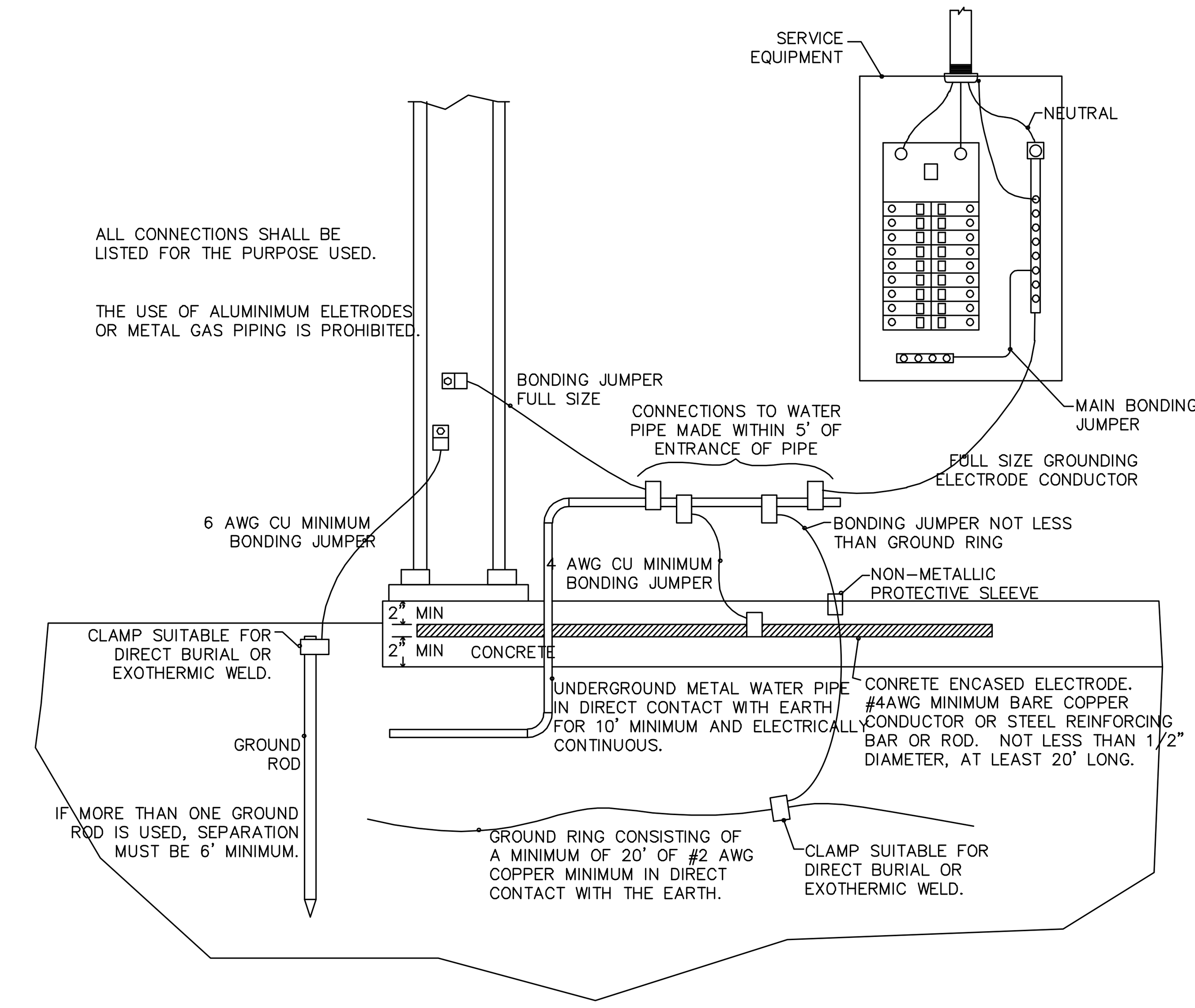


NOTES:

1. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET, UNLESS OTHERWISE NOTED.
2. LOCATIONS OF OUTLETS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL TAKE PRECEDENCE OVER THESE MOUNTING HEIGHTS. FIELD LOCATE OUTLETS WITH ARCHITECT DURING ROUGH-IN.
3. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE. OUTLETS THAT ARE WITHIN 2'-0" HORIZONTALLY AND WITHIN 1'-0" VERTICALLY SHALL BE INSTALLED ON THE SAME HORIZONTAL CENTERLINE LOCATED HALF WAY BETWEEN THE HEIGHTS SHOWN. OUTLETS THAT ARE MORE THAN 1'-0" APART VERTICALLY SHALL BE INSTALLED ON THE SAME VERTICAL CENTERLINE.
4. VERIFY MOUNTING HEIGHT WITH LOCAL AUTHORITY.

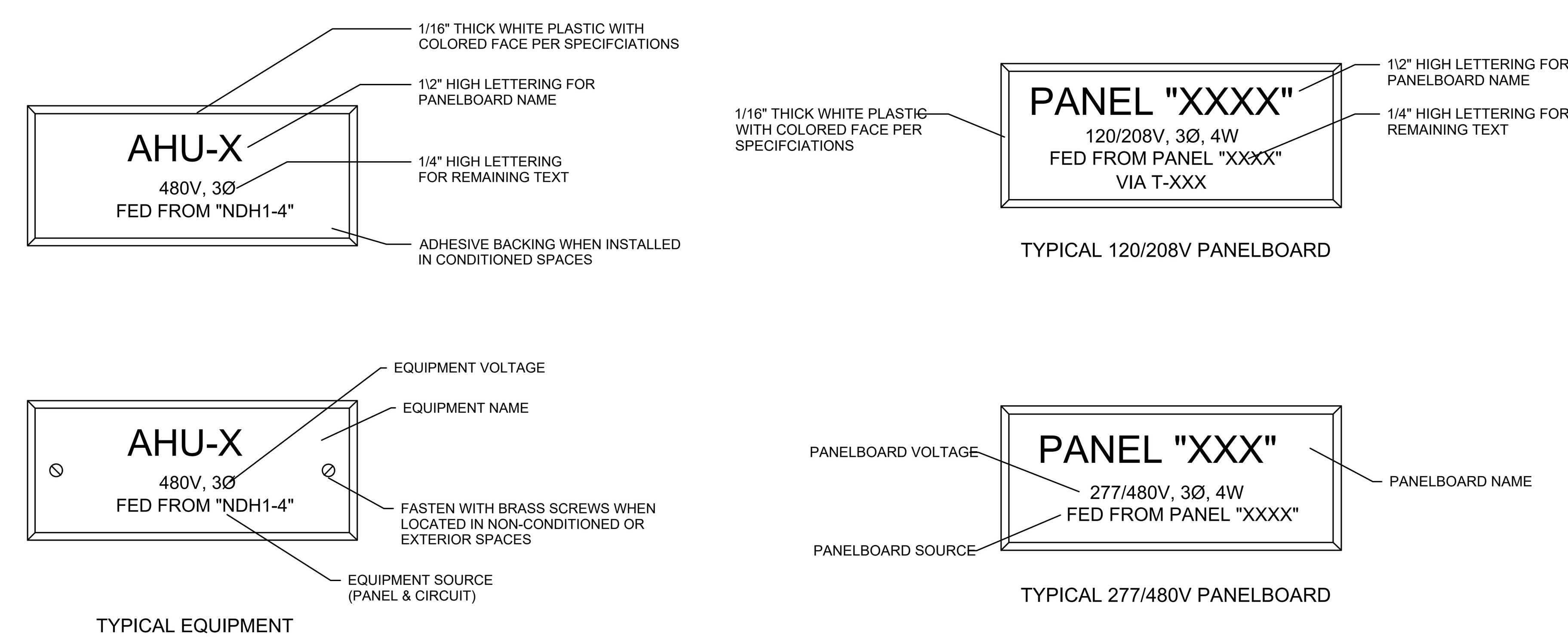
ELECTRICAL MOUNTING HEIGHTS

SCALE: NONE



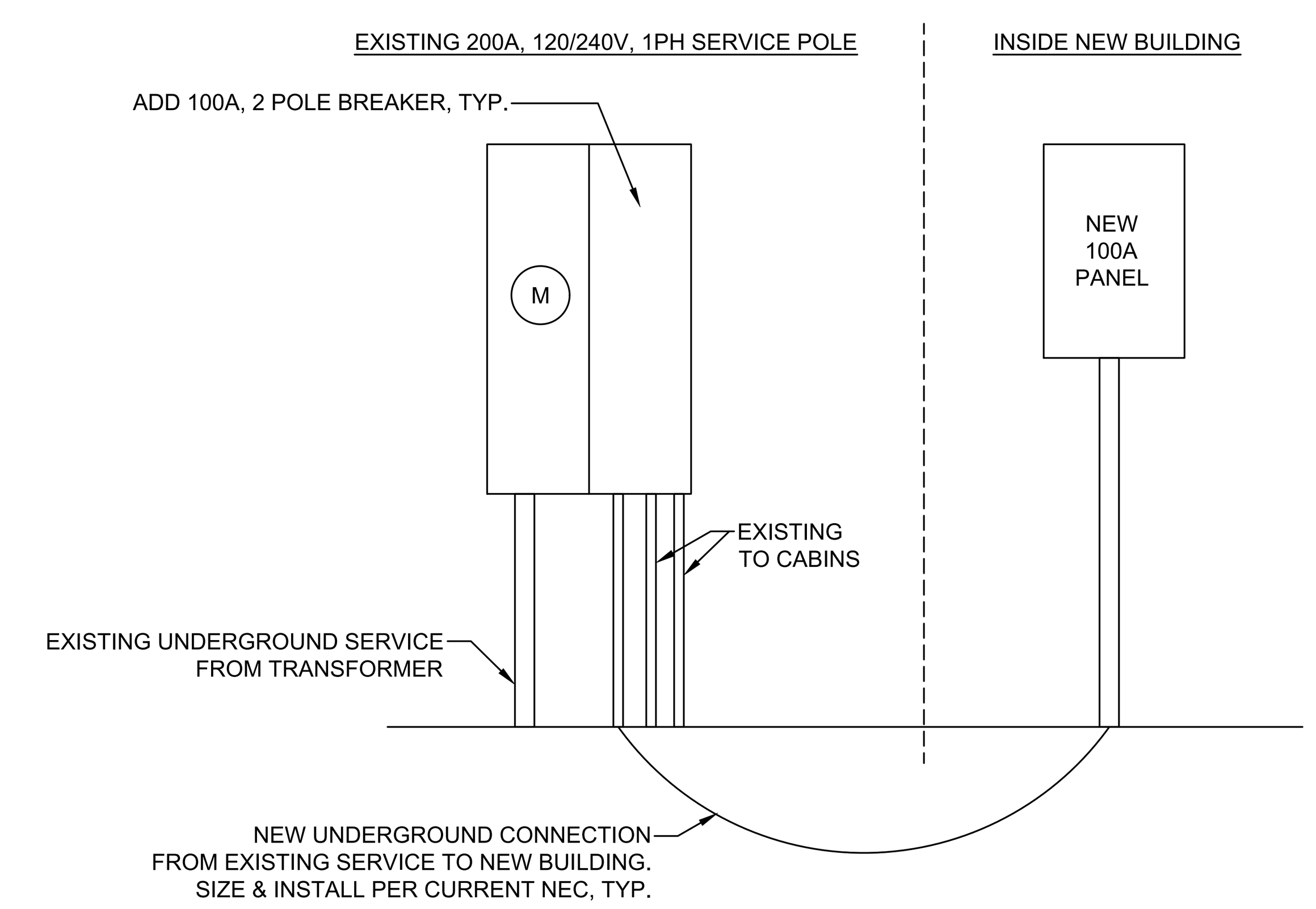
TYPICAL GROUNDING DETAIL

SCALE: NONE



NAME PLATE DETAIL

SCALE: NONE



NOTES:

1. ELECTRIC SERVICE SHALL COMPLY WITH DUKE ENERGY "REQUIREMENTS FOR ELECTRIC SERVICE AND METER INSTALLATIONS FOR NORTH CAROLINA AND SOUTH CAROLINA" MOST RECENT ADDITION
2. LAYOUT SHOWN IS ILLUSTRATIVE ONLY AND MAY BE MODIFIED TO MEET SITE CONDITIONS AS LONG AS CODE COMPLIANT.

100A 120/240V SINGLE-PHASE UNDERGROUND SERVICE

SCALE: NONE

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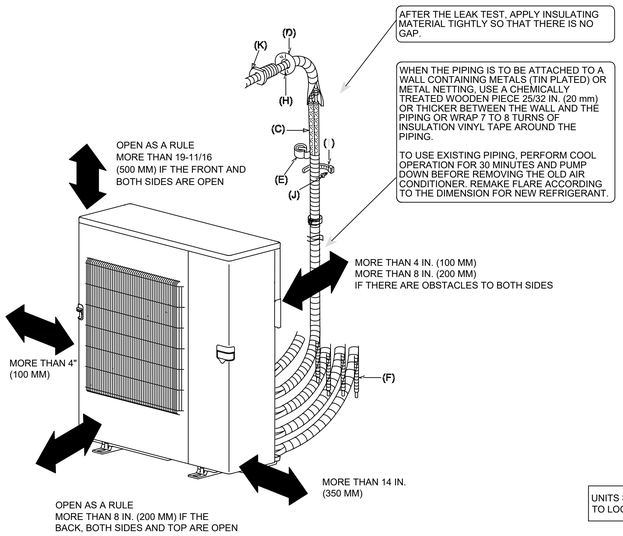


AFTER THE LEAK TEST, APPLY INSULATING MATERIAL TIGHTLY SO THAT THERE IS NO GAP.

WHEN THE PIPING IS TO BE ATTACHED TO A WALL CONTAINING METALS (TIN PLATED) OR METAL NETTING, USE A CHEMICALLY TREATED WOODEN PIECE 25/32 IN. (20 mm) OR THICKER BETWEEN THE WALL AND THE PIPING OR WRAP 7 TO 8 TURNS OF INSULATION VINYL TAPE AROUND THE PIPING.

TO USE EXISTING PIPING, PERFORM COOL OPERATION FOR 30 MINUTES AND PUMP DOWN BEFORE REMOVING THE OLD AIR CONDITIONER. REMAKE FLARE ACCORDING TO THE DIMENSION FOR NEW REFRIGERANT.

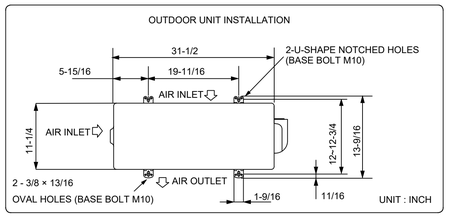
PARTS TO BE PROVIDED AT YOUR SITE		
A	POWER SUPPLY CORD*	1
B	INDOOR/OUTDOOR UNIT CONNECTING WIRE*	1
C	EXTENSION PIPE	1
D	WALL HOLE COVER	1
E	PIPING TAPE	1
F	EXTENSION DRAIN HOSE (OR SOFT PVC HOSE, 19/32 IN. (15 MM) INNER DIAMETER OR HARD PVC PIPE VP16)	1
G	REFRIGERATION OIL	LITTLE AMOUNT
H	PUTTY	1
I	PIPE FIXING BAND	2 to 7
J	FIXING SCREW FOR (I)	2 to 7
K	WALL HOLE SLEEVE	1

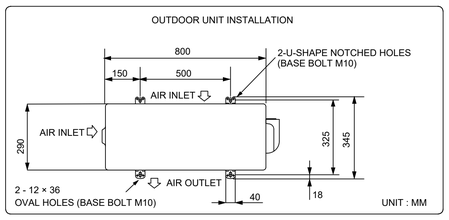
* NOTE:

PLACE INDOOR/OUTDOOR UNIT CONNECTING WIRE (B) AND POWER SUPPLY CORD (A) AT LEAST 3 FT. (1 M) AWAY FROM THE TV ANTENNA WIRE.

THE "Q'TY" FOR (B) TO (K) IN THE ABOVE TABLE IS QUANTITY TO BE USED PER INDOOR UNIT.

UNITS SHOULD BE INSTALLED BY LICENSED CONTRACTOR ACCORDING TO LOCAL CODE REQUIREMENTS.

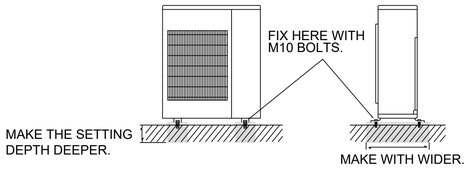


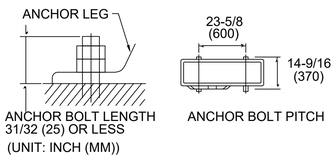


2. OUTDOOR UNIT INSTALLATION

2-1. INSTALLING THE UNIT

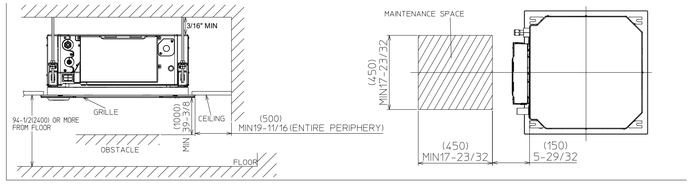
- BE SURE TO FIX THE UNIT'S LEGS WITH BOLTS WHEN INSTALLING IT.
- BE SURE TO INSTALL THE UNIT FIRMLY TO ENSURE THAT IT DOES NOT FALL BY AN EARTHQUAKE OR A GUST.
- REFER TO THE FIGURE IN THE RIGHT FOR CONCRETE FOUNDATION.
- IN CASE OF MXZ-2C20NAHZ2, MXZ-3C24/30NAHZ2, DO NOT USE THE DRAIN SOCKET AND THE DRAIN CAPS.
- IN CASE OF MXZ-5C42NA2, DO NOT USE THE DRAIN SOCKET AND THE DRAIN CAPS IN THE COLD REGION. DRAIN MAY FREEZE AND IT MAKES THE FAN STOP.

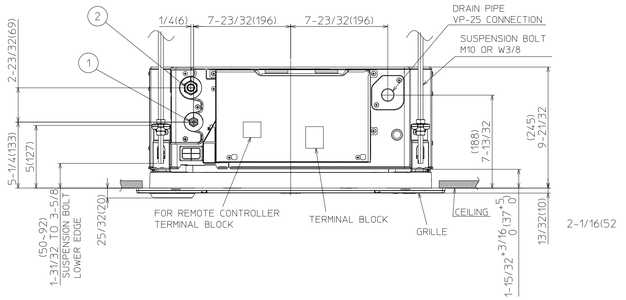




SUZ-KA12NA(H)2 - HEAT PUMP

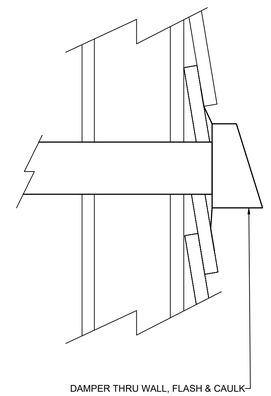
SCALE: NONE





SLZ-KF12NA - INDOOR COIL & VENT

SCALE: NONE



DAMPER THRU WALL

SCALE: NONE

NOTES:

1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUNOFF.
3. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.

(a) THIS DIMENSION IN INCHES MUST BE EQUAL TO THE MAXIMUM FAN SUCTION (NEGATIVE) STATIC PRESSURE IN INCHES WC (WITH DIRTY FILTERS, COILS, AND MAXIMUM AIR FLOW) + 1" W.C.

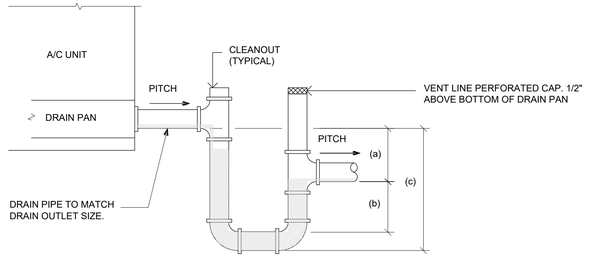
(b) THIS DIMENSION IN INCHES MUST BE EQUAL TO MIN. 1/2 OF THE (a) ABOVE.

(c) EQUAL (a) + (b) + PIPE DIA. + INSULATION.

(d) TRAP SEAL SHALL BE 2" MIN. ON UNITS LARGER THAN 3 TONS SHALL BE 3" MIN. PER F.B.C. -4606.7 WHERE APPLICABLE.

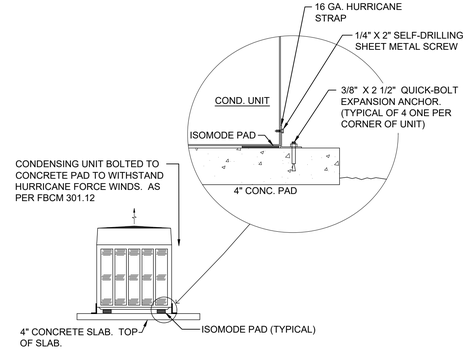
(e) TRAP SEAL SHALL BE 2" MIN. TO 4" MAX. PER S.B.C.C.I. -1002.4 WHERE APPLICABLE.

THIS STANDARD DETAIL MUST BE REVIEWED AND SITE ADAPTED BY CONTRACTOR PRIOR TO USE FOR FINAL EQUIPMENT.



DRAW THRU UNIT CONDENSATE TRAP

SCALE: NONE



NOTE:

1. CONDENSING UNITS TO BE INSTALLED ABOVE FLOOD LEVEL CRITERIA.

CONDENSING UNIT MOUNTING DETAIL

SCALE: NONE

REVISIONS

HEWN TIMBER CABINS REFURBISHMENT, FMU
WALLACE WOODS ROAD
FLORENCE, SOUTH CAROLINA

SOUTH CAROLINA
M. Padgett Engineering & Construction, LLC
No. 5303
CERTIFICATE OF AUTHORIZATION

MICHAEL A PADGETT JR.
No. 32976
REGISTERED PROFESSIONAL ENGINEER
2022.09.22

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MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

DATE
SEPTEMBER 22, 2022
COMMISSION NO.
2115
DRAWING NO.
ME5
SHEET DESCRIPTION
MECHANICAL DETAILS
DWN: AM CHK: MP

BID DOCUMENTS

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PROJECT NO.
H18-9583-SG-A