

DESIGNERS — BUILDERS

526 DISCOVERY PLACE
MABLETON, GEORGIA 30126
404-799-0101

- INTERNATIONAL BUILDING CODE, 2015 EDITION
- INTERNATIONAL FIRE CODE, 2015 EDITION
- INTERNATIONAL PLUMBING CODE,
- INTERNATIONAL MECHANICAL CODE, 2012 EDITION
- INTERNATIONAL FUEL GAS CODE, 2012 EDITION
- NATIONAL ELECTRICAL CODE (NEC), 2014 EDITION
- INTERNATIONAL ENERGY CONSERVATION CODE, 2009 EDITION
- INTERNATIONAL EXISTING BUILDING CODE, 2012 EDITION
- INTERNATIONAL PROPERTY MAINTENANCE CODE, 2012 EDITION
- FOR INFORMATION AND QUESTIONS REGARDING THE LIFE SAFETY CODE (NFPA 101) OR THE STATE ACCESSIBILITY CODE, PLEASE CONTACT THE STATE FIRE MARSHAL'S OFFICE.

1. ALL WORK TO COMPLY TO CITY, STATE & NATIONAL CODES & REGULATIONS (LATEST EDITION)
2. ALL MATERIALS STORED ON THE SITE MUST BE PROPERLY SECURED AND PROTECTED FROM THE ELEMENTS OF WEATHER.

THE PRE-ENGINEERED METAL BUILDING (P.E.M.B.) DRAWINGS TO BE SUBMITTED UNDER SEPARATE COVER.



The map shows the Savannah National Wildlife Refuge in green, situated between the cities of Savannah and Hardeeville. Major roads are shown in orange and purple. A callout box labeled "SITE LOCATION" points to a specific area within the refuge. The map also shows various islands and rivers, including the Ogeechee River and the Savannah River. A scale bar at the bottom right indicates distances of 2 miles and 5 km. The copyright notice "© 2017 HERE" is visible in the bottom right corner.

[illegible]

TAX MAP# 031-00-00-016

OWNER: WASTE MANAGEMENT
1850 PARKWAY PLACE SUITE 600
MARIETTA, GA. 30067
CONTACT - JOHN WORKMAN
770-590-3308

SITE ADDRESS: HIGHWAY 17
HARDEEVILLE, SOUTH CAROLINA 29927
11TH DISTRICT
PARCEL NO. 031-00-00-016
JASPER COUNTY, S.C.

ARCHITECT: FRANK D. SMOLEK JR., ARCHITECT
ABUCK, INC.
526 DISCOVERY PLACE
MABLETON, GEORGIA 30126
404-799-0101
770-861-4284 (CELL)

CIVIL ENGINEER: THOMAS & HUTTON
50 PARK OF COMMERCE WAY
SAVANNAH, GEORGIA 31405
912-234-5300

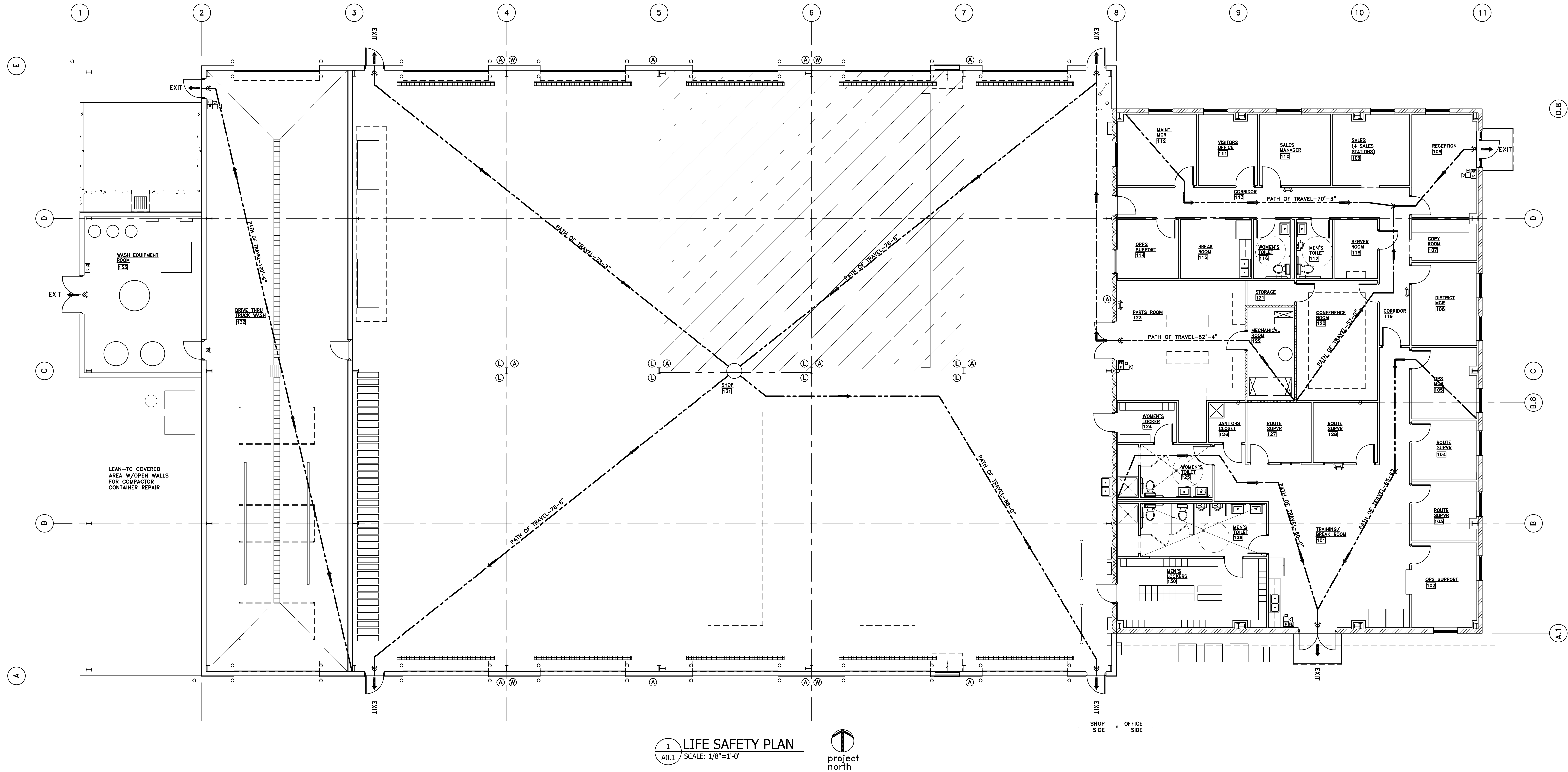
STRUCTURAL ENGINEER: SHEATS STRUCTURAL CONSULTING, INC.
701 N. BROAD STREET, SUITE E
WINDER, GEORGIA 30680
ART BENNETT
770-307-0221

MEP ENGINEER: RM3 ENGINEERING
2302 BROCKETT ROAD
TUCKER, GEORGIA 30084
BOB SUGGS
770-934-0944
770-934-0945 FAX

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

ABUCK
DESIGNERS — BUILDERS

A0.0



1 LIFE SAFETY PLAN
A0.1 SCALE: 1/8"=1'-0"



LIFE SAFETY SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	EXIT LIGHT w/ BATTERY BACKUP
	BATTERY OPERATED EMERGENCY LIGHT
	SURFACE MOUNTED FIRE EXTINGUISHER
	FIRE ALARM HORN/STROBE
	PULL STATION
	STROBE
	ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR
	HEAT DETECTOR
	TRAVEL PATH

LIFE SAFETY/OCCUPANCY CALCS.—SHOP AREA					
ROOM NO.	ROOM NAME	OCCUPANCY CLASS	FLOOR AREA	SF/PERSON	OCCUPANT LOAD
131	SHOP	S-1	12250.00	300	40.93
132	DRIVE THRU TRUCK WASH	S-1	2297.00	300	7.66
133	WASH EQUIPMENT ROOM	S-1	494.00	300	1.65
	TOTALS		15071.00		50.24

TOTAL EGRESS WIDTH REQUIRED @ 0.2" PER OCCUPANT: (51x2) = 10.20"
TOTAL EGRESS WIDTH PROVIDED = 180"

TRAVEL DISTANCE
MAXIMUM TRAVEL DISTANCE ALLOWED: NR
MAXIMUM TRAVEL DISTANCE TO EXIT: 100'-6"

LIFE SAFETY/OCCUPANCY CALCULATION—OFFICE AREA					
ROOM NO.	ROOM NAME	OCCUPANCY CLASS	FLOOR AREA	SF/PERSON	OCCUPANT LOAD
101	TRAINING/BREAK ROOM	A-3	778.00	15	51.87
102	OPS SUPPORT	B	146.00	100	1.46
103	ROUTE SUPVR.	B	102.00	100	1.02
104	ROUTE SUPVR.	B	102.00	100	1.02
105	OPS MANAGER	B	123.00	100	1.23
106	DISTRICT MANAGER	B	144.00	100	1.44
107	COPY ROOM	B	69.00	100	0.69
108	RECEPTION	B	177.00	100	1.77
109	SALES	B	144.00	100	1.44
110	SALES MANAGER	B	135.00	100	1.35
111	VISITORS OFFICE	B	110.00	100	1.10
112	MAINTENANCE MANAGER	B	148.00	100	1.48
113	CORRIDOR	B	234.00	100	2.34
114	OPS SUPPORT	B	95.00	100	0.95
115	BREAK ROOM	B	111.00	100	1.11
116	WOMEN'S TOILET	B	57.00	100	0.57
117	MEN'S TOILET	B	57.00	100	0.57
118	SERVER ROOM	B	66.00	100	0.66
119	CORRIDOR	B	103.00	100	1.03
120	CONFERENCE ROOM	A-3	259.00	15	17.27
121	STORAGE	S-1	30.00	300	0.10
122	MECHANICAL ROOM	S-1	117.00	300	0.39
123	PARTS ROOM	S-1	444.00	300	1.48
124	WOMEN'S LOCKERS	B	62.00	100	0.62
125	WOMEN'S TOILET	B	133.00	100	1.33
126	JANITOR'S CLOSET	S-1	38.00	300	0.13
127	ROUTE SUPVR.	B	103.00	100	1.03
128	ROUTE SUPVR.	B	103.00	100	1.03
129	MEN'S TOILET	B	210.00	100	2.10
130	MEN'S LOCKERS	B	270.00	100	2.70
	TOTALS		4670.00		101.28

TOTAL EGRESS WIDTH REQUIRED @ 0.2" PER OCCUPANT: (102x2) = 20.40"
TOTAL EGRESS WIDTH PROVIDED = 108"

TRAVEL DISTANCE
MAXIMUM TRAVEL DISTANCE ALLOWED: 300'-0"
MAXIMUM TRAVEL DISTANCE TO EXIT: 82'-4"

526 DISCOVERY PLACE
MADEIRA PARK, ALA 36156
404-799-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

LIFE SAFETY
PLAN

DRAWN BY:
KM

DRAWING NO.

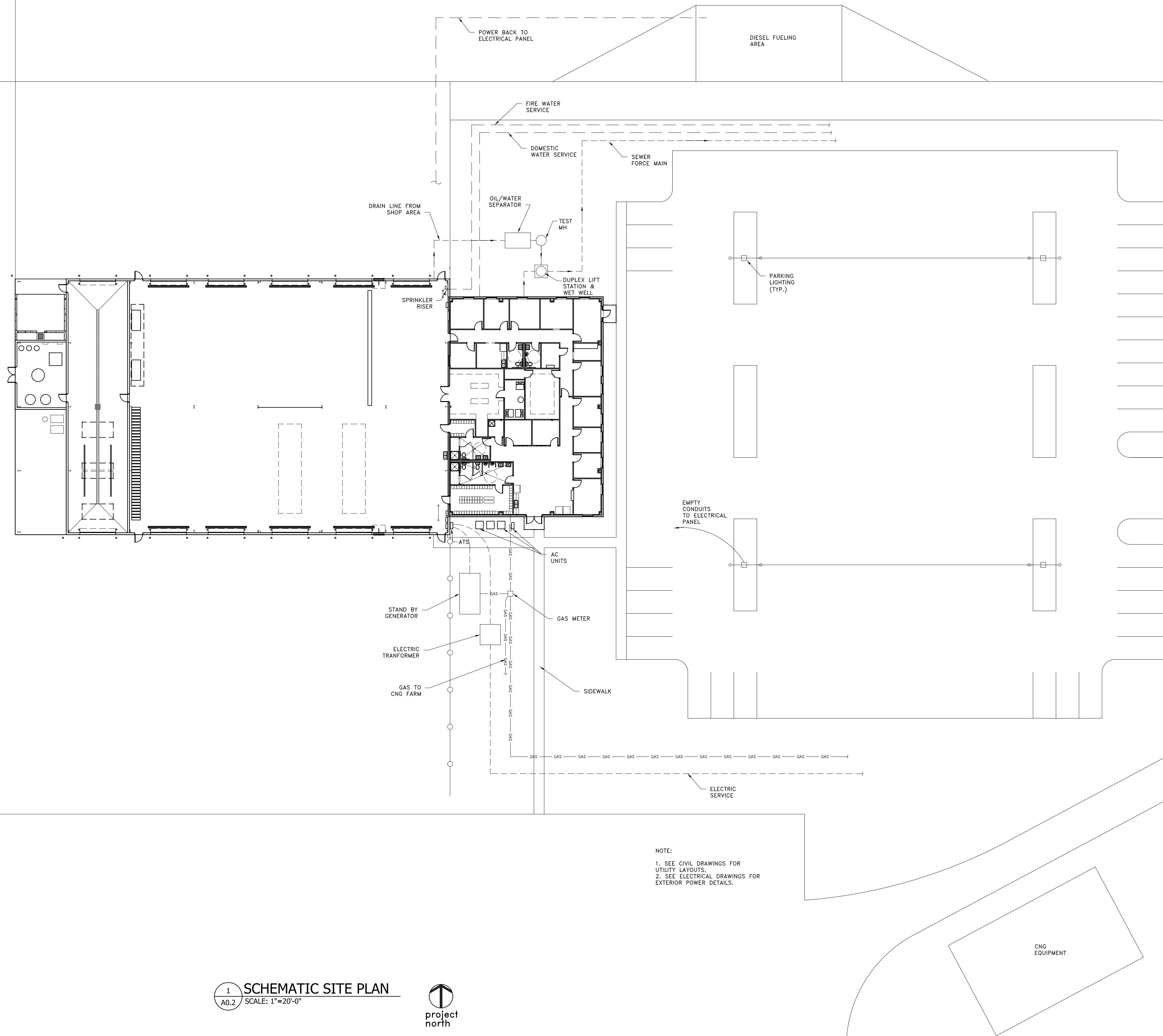
JOB NO.
17-3550

DATE
11/07/17

REVISIONS

SHEET NO.

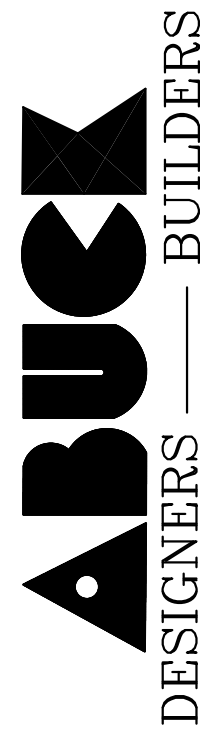
A0.1



1
A0.2
SCHEMATIC SITE PLAN
SCALE: 1"=20'-0"



626 DISCOVERY PLACE
MABLETON, GA 30158
404-798-0101



WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

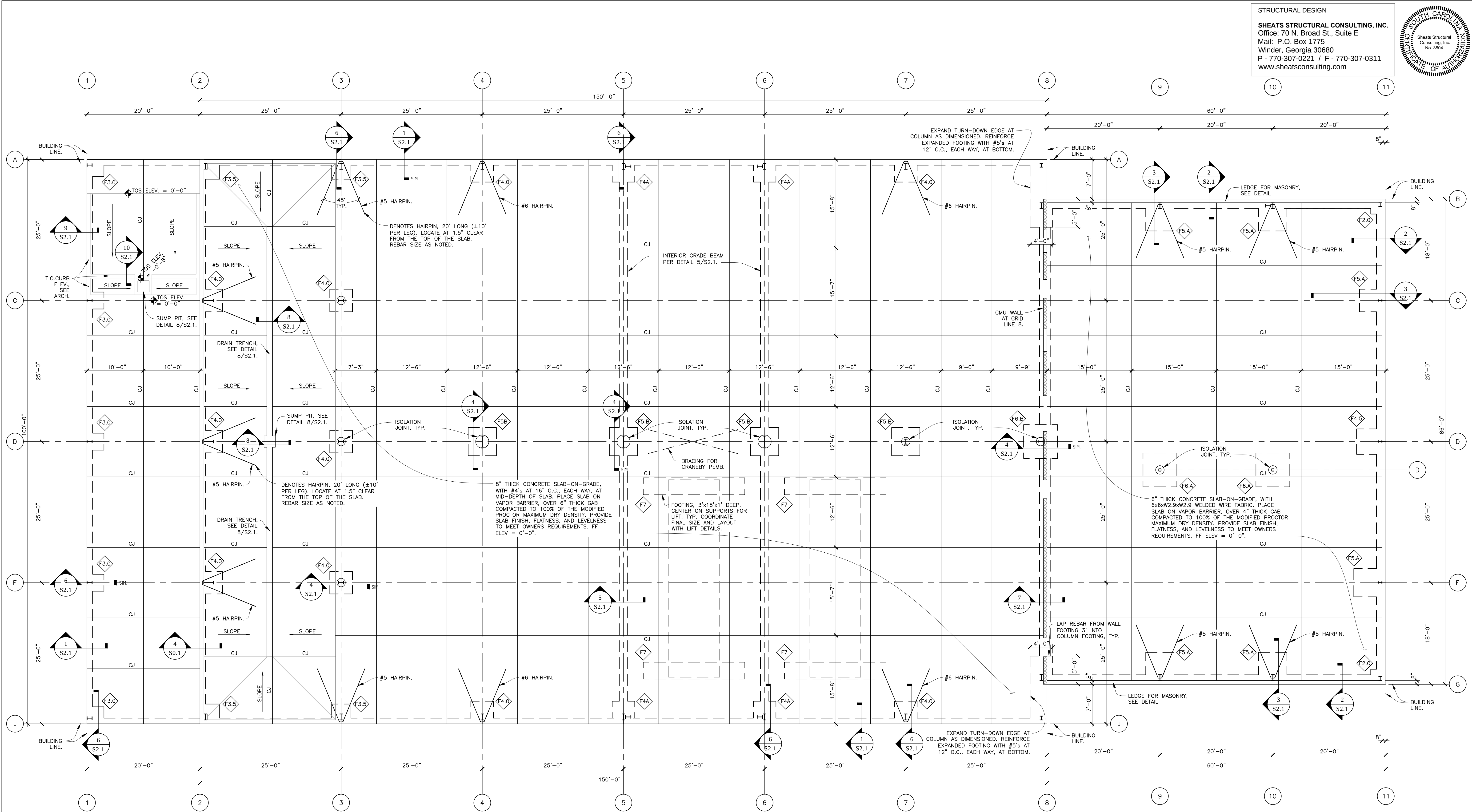
SCHEMATIC
SITE PLAN

DRAWN BY:
KM
DRAWING NO.

JOB NO.
17-3550
DATE
11/07/17

REVISIONS	

SHEET NO.
A0.2



GENERAL NOTES:

SECTION A: GENERAL

1. THE SCOPE OF SERVICES PROVIDED BY SHEATS STRUCTURAL CONSULTING, INC. WAS LIMITED SOLELY TO THE STRUCTURAL DESIGN OF THE NEW FOUNDATIONS PRESENTED HEREIN. STRUCTURAL DESIGN OR EVALUATION OF THE PROPOSED PEMB WAS OUTSIDE OF SSCI'S SCOPE OF SERVICES FOR THIS PROJECT.
2. ALL DIMENSIONS, ANGLES, ELEVATIONS, ETC. GIVEN HEREIN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR (BASED ON EXISTING FIELD CONDITIONS AND OTHER DRAWINGS – ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, PEMB, ETC.) PRIOR TO SUBMITTAL OF BID, MATERIAL PURCHASE, FABRICATION, AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY SSCI OF ANY DISCREPANCIES BEFORE PROCEEDING.
3. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL/SITE, AND PEMB DRAWINGS AND SHALL NOTIFY SSCI OF ANY CONFLICTS OR DISCREPANCIES BEFORE PROCEEDING.
4. WHERE A SECTION, DETAIL, OR NOTE IS GIVEN FOR ONE CONDITION/LOCATION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS/LOCATIONS, UNLESS NOTED OTHERWISE.
5. MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION WERE NOT EVALUATED OR DESIGNED BY SSCI AND ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION, AND THE CONTRACTOR SHALL DESIGN, PROVIDE, AND INSTALL ANY TEMPORARY SHORING, FORMWORK, OR OTHER COMPONENTS THAT MAY BE REQUIRED FOR STABILITY DURING INTERMEDIATE STAGES OF CONSTRUCTION.
6. DRAWINGS ARE NOT TO SCALE. ANY SCALE NOTED IS PROVIDED FOR APPROXIMATE REFERENCE ONLY.
7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE **INTERNATIONAL BUILDING CODE** (2015 EDITION WITH SC AMENDMENTS).
8. SSCI ASSUMES NO RESPONSIBILITY FOR JOB SITE SAFETY OR OSHA COMPLIANCE WHICH SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
9. IN THE EVENT OF A CONFLICT BETWEEN PORTIONS OF THE STRUCTURAL DRAWINGS/SPECIFICATIONS, OR A CONFLICT BETWEEN THE STRUCTURAL DRAWINGS/SPECIFICATIONS AND THE REFERENCED CODES/SPECIFICATIONS, OR A CONFLICT BETWEEN THE STRUCTURAL DRAWINGS/SPECIFICATIONS AND THE ARCHITECTURAL, CIVIL, OR PEMB DRAWINGS/SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. CONTRACTOR SHALL NOTIFY SSCI OF ANY CONFLICTS BEFORE PROCEEDING.
10. STRUCTURAL MEMBERS (BEAMS, COLUMNS, STUDS, ETC.) AND REINFORCING STEEL (IN CONCRETE COLUMN FOOTINGS) SHALL NOT BE SPLICED UNLESS SHOWN HEREIN OR APPROVED, IN WRITING, BY SSCI AND PEMB MANUFACTURER.
11. PROVIDE AS USED HEREIN SHALL MEAN PROVIDE AND INSTALL.
12. OWNER SHALL CONTRACT FOR AND CONTRACTOR SHALL SCHEDULE/COORDINATE ALL SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
13. STRUCTURAL FOUNDATION DESIGNS/DETAILS SHOWN HEREIN ARE INTENDED SOLELY FOR THE NEW WASTE MANAGEMENT HAULING FACILITY BUILDING AT HARDEEVILLE, SC. THE DESIGNS/DETAILS SHOWN HEREIN SHALL NOT BE RE-USED FOR ANY OTHER BUILDING OR PROJECT WITHOUT REVIEW AND WRITTEN APPROVAL FROM SSCI.

SECTION B: DESIGN CRITERIA

1. FOUNDATION DESIGN IS BASED ON THE VARCO PRUDEN COLUMN REACTIONS DATED 09-12-2017. SSCI IS NOT RESPONSIBLE FOR THE PEMB DESIGN. SSCI IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS CAUSED (IN WHOLE OR IN PART) BY ERRORS OR OMISSIONS IN THE VARCO PRUDEN REACTIONS.
2. BEFORE FABRICATION/CONSTRUCTION, SUBMIT FINAL PEMB ANCHOR BOLT/BASE PLATE DRAWINGS AND REACTIONS TO SSCI FOR REVIEW.
3. SLAB-ON-GRADE IS DESIGNED FOR A UNIFORM LIVE LOAD OF 200 PSF OR A CONCENTRATED WHEEL LOAD OF 10,000 LBS, MAXIMUM (ON AN AREA OF 50 IN², MINIMUM)

SECTION C: FOUNDATIONS

1. FOR STRIP FOOTINGS AND SHALLOW SPREAD FOOTINGS, A DESIGN NET ALLOWABLE BEARING PRESSURE OF 2,000 PSF WAS USED. AN INDEPENDENT, QUALIFIED, GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE ABOVE-REFERENCED ALLOWABLE NET BEARING PRESSURE CAPACITY IS OBTAINED IN ALL FOUNDATION EXCAVATIONS BEFORE CONCRETE PLACEMENT. ANY NON-COMPLIANT AREAS SHALL BE CORRECTED PER THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER TO OBTAIN THE NET ALLOWABLE BEARING CAPACITY SPECIFIED ABOVE.
2. SOIL PROPERTIES LISTED BELOW SHALL BE VERIFIED BY AN INDEPENDENT, QUALIFIED GEOTECHNICAL ENGINEER.
 - 2.1. PASSIVE EARTH PRESSURE.....332 PSF PER FOOT OF DEPTH
 - 2.2. SUBGRADE COEFFICIENT OF FRICTION.....0.32
 - 2.3. MODULUS OF SUB-GRADE REACTION OF 120 PCI, MINIMUM, BELOW SLAB-ON-GRADE.
3. AN INDEPENDENT, QUALIFIED, GEOTECHNICAL ENGINEER SHALL VERIFY THE ADEQUACY OF THE SLAB-ON-OR-GRADE PRIOR TO SLAB PLACEMENT. CONTRACTOR SHALL PROVIDE APPROPRIATE PROOFROLLING EQUIPMENT AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
4. BACKFILL PLACEMENT AND COMPACTION SHALL BE MONITORED, TESTED, AND APPROVED BY A GEOTECHNICAL ENGINEER. U.N.O., THE TOP 1' OF BACKFILL BENEATH SLABS-ON-GRADE SHALL BE SCARIFIED AND COMPACTED TO A MIN. OF 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. U.N.O., ALL BACKFILL AT FOUNDATIONS SHALL BE COMPACTED AS REQUIRED BY THE GEOTECHNICAL ENGINEER TO ACHIEVE THE ALLOWABLE BEARING PRESSURE LISTED ABOVE. U.N.O., OTHER BACKFILL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL SHALL BE WITHIN 3% OF OPTIMUM MOISTURE WHEN PLACED AND SHALL BE PLACED/COMPACTED IN LIFTS NOT EXCEEDING 6 INCHES (OR LESS IF REQUIRED BY THE GEOTECHNICAL ENGINEER).
5. CLEAN OUT ALL FOOTING EXCAVATIONS (OF LOOSE/SOFT SOIL, STANDING WATER, MUD, DEBRIS, ETC.) IMMEDIATELY BEFORE CONCRETE PLACEMENT.

SECTION D: CONCRETE CONSTRUCTION (INCLUDING REBAR AND SLABS-ON-GRADE)

1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
2. WHERE EPOXY ANCHORAGE OF REINFORCING STEEL BARS IS SPECIFIED, U.N.O. THE HILTI HIT HY 200 EPOXY ANCHORING SYSTEM SHALL BE USED WITH THE FOLLOWING EMBEDMENT LENGTHS: #3 – 6", #4 – 8", #5 – 10", #6 – 12", #7 – 14", #8 – 16". FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE MAXIMUM EPOXY ANCHORAGE SYSTEM.
3. PROVIDE CLEAR CONCRETE COVER FOR ALL REINFORCING STEEL BARS PER ACI 318. U.N.O., PROVIDE THE FOLLOWING CLEAR CONCRETE COVER: A) 3" FOR REBAR IN CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH; B) 1-1/2" FOR #5 AND SMALLER REBAR IN CONCRETE EXPOSED TO EARTH OR WEATHER; C) 2" FOR #6 AND LARGER REBAR IN CONCRETE EXPOSED TO EARTH OR WEATHER; D) 1-1/2", U.N.O.
4. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615 WITH Fy=60,000 PSI, UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE SUPPORTED ON PLASTIC OR STEEL CHAIRS (WITH EPOXY-COATED LEGS WHERE CHAIRS ARE IN CONTACT WITH EARTH) OR PRECAST CONCRETE BRICKS OR STANDERS FROM LOWER MATS. PROVIDE SIZE AND SPACING OF SUPPORTS AS REQUIRED TO ADEQUATELY SUPPORT REINFORCING STEEL PRIOR TO AND DURING CONCRETE PLACEMENT.
5. ALL WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185 AND SHALL BE LAPPED 12 INCHES AT ALL ENDS AND EDGES. WELDED WIRE FABRIC SHALL BE CHAIR-SUPPORTED BEFORE CONCRETE PLACEMENT TO ACHIEVE CORRECT DEPTH AND COVER.
6. REINFORCING STEEL LAP SPLICES SHALL MEET OR EXCEED THE FOLLOWING LENGTHS (U.N.O.): #3 – 22", #4 – 29", #5 – 36", #6 – 43", #7 – 63", #8 – 71". STAGGER SPLICES OF ADJACENT BARS.
7. PROVIDE L-SHAPED REINFORCING BARS AT ALL CORNERS AND INTERSECTIONS. CORNER BARS SHALL MATCH THE SIZE AND SPACING OF THE TERMINATING BARS AND SHALL LAP THE TERMINATING BARS BY THE SPLICE LENGTHS GIVEN ABOVE. AT WALL CORNERS, REINFORCING BARS AT THE INNER FACE SHALL BE EXTENDED TO THE OUTER FACE OF THE PERPENDICULAR WALL AND HOOKED (ACI STANDARD) AT ENDS.
8. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT MIX DESIGNS AND ASSOCIATED DATA, PER ACI 318, TO THE SPECIAL INSPECTOR BEFORE CONSTRUCTION AND SHALL AWAIT REVIEW AND APPROVAL BEFORE PROCEEDING.
9. WATER, IN EXCESS OF THAT SHOWN IN THE MIX DESIGN, SHALL NOT BE ADDED TO CONCRETE AT THE PROJECT SITE OR DURING PLACEMENT.
10. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS. (REFER TO ACI 309 – GUIDE FOR CONSOLIDATION OF CONCRETE.)
11. WET CURE UNFORMED CONCRETE FOR 7 DAYS, MINIMUM, AFTER PLACEMENT UNLESS AN ALTERNATIVE CURING METHOD IS SUBMITTED BY THE CONTRACTOR AND APPROVED, IN WRITING, BY THE AOR OR SER.
12. U.N.O., ALL SLABS-ON-GRADE SHALL BE PLACED ABOVE 6", MIN., OF G.A.B. COMPACTED TO 100% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. SEE ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS.
13. SAW-CUT CRACK CONTROL JOINTS IN SLABS-ON-GRADE AS SOON AS POSSIBLE AFTER PLACEMENT (BEFORE RANDOM SHRINKAGE CRACKS DEVELOP) AND SEAL AND/OR FILL JOINTS AS REQUIRED. CRACK CONTROL JOINTS SHALL HAVE A DEPTH EQUAL TO 1/3RD OF THE TOTAL DEPTH OF THE SLAB AND SHALL HAVE A WIDTH OF 1/8". CRACK CONTROL JOINTS SHALL BE SPACED AS PER PLAN. IF A DIFFERENT LAYOUT IS PREFERRED, CONTRACTOR SHALL SUBMIT PROPOSED CRACK CONTROL JOINT LAYOUT TO THE SER & AOR FOR REVIEW/APPROVAL BEFORE PLACEMENT OF SLAB-ON-GRADE.
14. ALL CONCRETE CONSTRUCTION, INCLUDING REINFORCING STEEL, SHALL BE OBSERVED AND TESTED BY A QUALIFIED, INDEPENDENT PARTY. CONCRETE TEMPERATURES, SLUMPS, AND AIR CONTENTS SHALL BE TESTED, RECORDED, AND VERIFIED TO BE IN COMPLIANCE WITH THE APPROVED MIX DESIGN. TEST CYLINDERS SHALL BE CAST (IN SETS OF SIX) AND TESTED TO VERIFY COMPRESSIVE STRENGTH. THE ABOVE REFERENCED TESTS AND TEST CYLINDERS SHALL BE PERFORMED AT THE RATE OF ONE SET OF TESTS/CYLINDERS FOR EACH 150 CUBIC YARDS (OR LESS) OF EACH MIX DESIGN OF CONCRETE PLACED IN A DAY. PROVIDE ADDITIONAL COMPRESSIVE STRENGTH TESTING IF REQUIRED BY ACI 318.

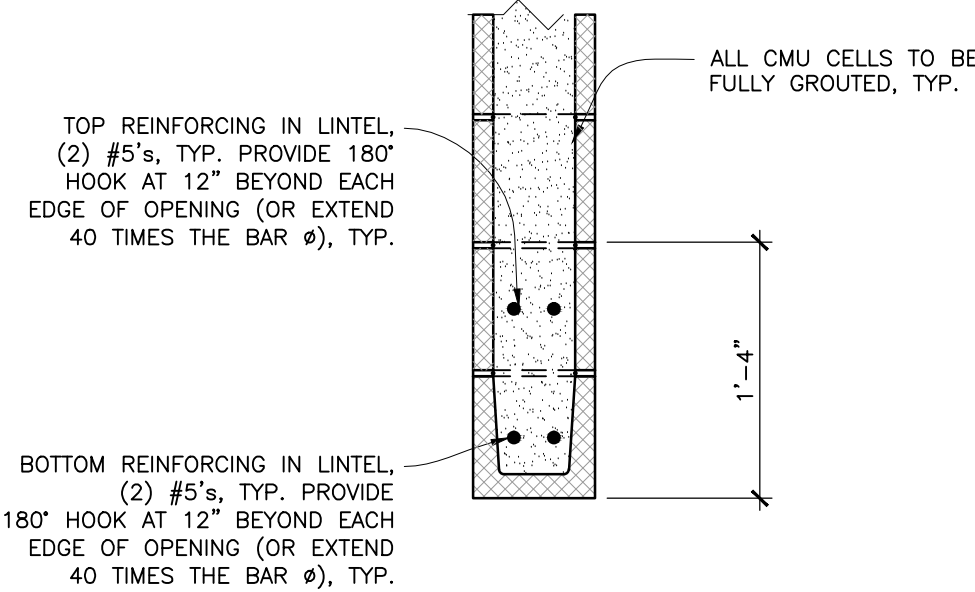
SECTION E: CONCRETE MASONRY CONSTRUCTION

1. ALL CONCRETE MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530-11: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 530.1-11: SPECIFICATION FOR MASONRY STRUCTURES.
2. CONCRETE MASONRY UNITS (CMU) SHALL BE HOLLOW LOADBEARING TYPE AND SHALL COMPLY WITH ASTM C90. MORTAR SHALL BE TYPE S AND SHALL COMPLY WITH ASTM C270. JOINTS SHALL BE FULLY MORTARED (NOT SOLELY FACE SHELLS).
3. ALL CMU SHALL HAVE A MINIMUM Fy= 1,500 PSI.
4. VERTICAL REINFORCING BARS SHALL BE CENTERED WITHIN THE WALL AND CELL, U.N.O.
5. ALL CELLS SHALL BE FILLED WITH GROUT WITH A MIN. 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI AND A SLUMP OF 8 INCHES TO 11 INCHES. GROUT SHALL COMPLY WITH ASTM C476. GROUT INSTALLATION SHALL UTILIZE THE "LOW LIFT" METHOD AND GROUT POUR HEIGHTS SHALL NOT EXCEED 5'-0".
6. ALL REINFORCING STEEL BARS SHALL COMPLY WITH ASTM A615 WITH Fy=60,000 PSI, UNLESS NOTED OTHERWISE. ALL WIRE JOINT REINFORCING SHALL COMPLY WITH ASTM A153, CLASS B-2, AND SHALL BE GALVANIZED.
7. REINFORCING STEEL LAP SPLICES IN MASONRY CONSTRUCTION SHALL MEET OR EXCEED THE FOLLOWING LENGTHS (U.N.O.): #4 – 25", #5 – 31", #6 – 57. STAGGER SPLICES OF ADJACENT BARS IN BOND BEAMS.
8. WHERE EPOXY ANCHORAGE OF REINFORCING STEEL BARS OR STEEL RODS IN CMU IS SPECIFIED, U.N.O. THE HILTI HIT HY 70 EPOXY ANCHORING SYSTEM SHALL BE USED WITH THE FOLLOWING EMBEDMENT LENGTHS: #3&3/8" – 4", #4&1/2" – 5", #5&5/8" – 6", #6&3/4" – 7". FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE MAXIMUM PERFORMANCE OF THE EPOXY ANCHORAGE SYSTEM.
9. PROVIDE L-SHAPED REINFORCING BARS AT ALL BOND BEAM CORNERS AND INTERSECTIONS. CORNER BARS SHALL MATCH THE SIZE AND SPACING OF THE TERMINATING BARS AND SHALL LAP THE TERMINATING BARS BY THE SPLICE LENGTHS GIVEN ABOVE.
10. CONTRACTOR SHALL SUBMIT MIX DESIGNS, CERTIFICATES OF COMPLIANCE, AND ASSOCIATED DATA FOR CONCRETE MASONRY UNITS, MORTAR, AND GROUT PER ACI 530 AND 530.1, BEFORE CONSTRUCTION AND SHALL AWAIT SER/AOR REVIEW AND APPROVAL BEFORE PROCEEDING.
11. SECURE REINFORCING STEEL WITH BAR POSITIONERS PRIOR TO GROUT PLACEMENT.
12. MINIMUM VERTICAL REINFORCING STEEL: U.N.O., FULL-HEIGHT #6 VERTICAL REINFORCING BARS SHALL BE PROVIDED AT WALL CORNERS (CORNER CELL AND ONE CELL TO EACH SIDE), IN THE 2 CELLS TO EACH SIDE OF ALL OPENINGS, TO EACH SIDE OF EACH CONTROL JOINT, AT ALL WALL ENDS, AND AT 24" (MAX.) ON CENTER.
13. MINIMUM HORIZONTAL REINFORCING STEEL: U.N.O., BOND BEAMS, REINFORCED WITH 2-#5'S CONTINUOUS, SHALL BE PROVIDED AT THE TOPS OF ALL CMU WALLS, AND AT THE ELEVATION OF ALL FLOORS AND ROOF.
14. MINIMUM WIRE JOINT REINFORCING: U.N.O., 9 GAGE, LADDER TYPE, HORIZONTAL JOINT REINFORCING STEEL SHALL BE PROVIDED IN ALL WALLS AT 8" O.C. BELOW GRADE AND AT 16" O.C. ABOVE GRADE. LAP JOINT REINFORCING 6", MIN., AND BREAK AT ALL CONTROL JOINTS.
15. AT ALL VERTICAL REINFORCING BARS, PROVIDE REINFORCING DOWELS CONNECTED TO THE WALL FOUNDATION WITH AN ACI STANDARD HOOK AND LAP-SPLICED WITH THE VERTICAL BAR.
16. PROVIDE VERTICAL CRACK CONTROL JOINTS IN CMU WALLS AT 30'-0", MAX., O.C. PROVIDE BACKER ROD/SEALANT AS WELL AS WATERPROOFING/WATERSTOPS AT CONTROL JOINTS AS REQUIRED. (WATERPROOFING/WATERSTOP DETAILS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT ADDRESSED HEREIN.) BOND BEAM REINFORCING STEEL SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. WIRE JOINT REINFORCING SHALL TERMINATE 2" TO EACH SIDE OF THE CONTROL JOINT. SUBMIT PROPOSED CONTROL JOINT LAYOUT TO AOR/SER FOR REVIEW BEFORE CONSTRUCTION UNLESS SHOWN HEREIN.
17. ALL CONCRETE MASONRY CONSTRUCTION, INCLUDING REINFORCING STEEL, SHALL BE OBSERVED AND TESTED BY A QUALIFIED, INDEPENDENT PARTY IN ACCORDANCE WITH LEVEL B INSPECTION REQUIREMENTS OF ACI 530 AND ACI 530.1. GROUT SLUMPS SHALL BE TESTED, RECORDED, AND VERIFIED TO BE IN COMPLIANCE WITH THE APPROVED MIX DESIGN. GROUT TEST CUBES SHALL BE CAST (IN SETS OF FOUR) AND TESTED TO VERIFY COMPRESSIVE STRENGTH. THE ABOVE REFERENCED TESTS AND TEST CYLINDERS SHALL BE PERFORMED EACH DAY THAT GROUT IS PLACED FOR EACH 2500 SQUARE FEET (OR LESS) OF MASONRY WALL SURFACE AREA. MORTAR PROPORTIONS SHALL BE PERIODICALLY OBSERVED TO BE IN COMPLIANCE WITH THE APPROVED METHOD AND MIX DESIGN.

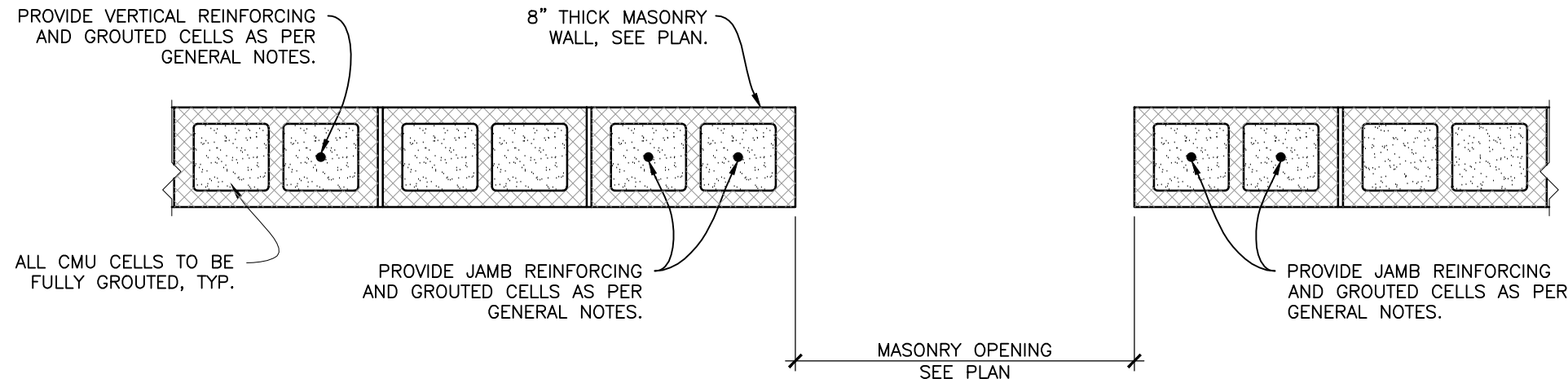
SECTION F: ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AOR	ARCHITECT OF RECORD
ASCH	ARCHITECT/ARCHITECTURAL
AWS	AMERICAN WELDING SOCIETY
B/BOT	BOTTOM
CONC	CONCRETE
CJ	CONTROL JOINT
CWI	CERTIFIED WELDING INSPECTOR
EF	EACH FACE
ELEV	ELEVATION
EOS	EDGE OF SLAB
EW	EACH WAY
FFE	FINISHED FLOOR ELEVATION
FND	FOUNDATION
GAB	GRADED AGGREGATE BASE
GL	GRID LINE
IBC	INTERNATIONAL BUILDING CODE
K	KIPS
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
PAF	POWDER ACTUATED FASTEN(ERS)
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE-TREATED
REBAR	REINFORCING STEEL BARS
REINF	REINFORCING
REQD	REQUIRED
SCS	SOUTHERN COMPANY SERVICES
SER	STRUCTURAL ENGINEER OF RECORD
SIM	SIMILAR
SL	STEEL LINE
SPEC	SPECIFICATION
SSCI	SHEATS STRUCTURAL CONSULTING, INC.
T	TOP
TO	TOP OF
TOF	TOP OF FOOTING
TYP	TYPICAL
TOS	TOP OF STEEL OR TOP OF SLAB
UNO	UNLESS NOTED OTHERWISE
WWF	WELDED WIRE FABRIC

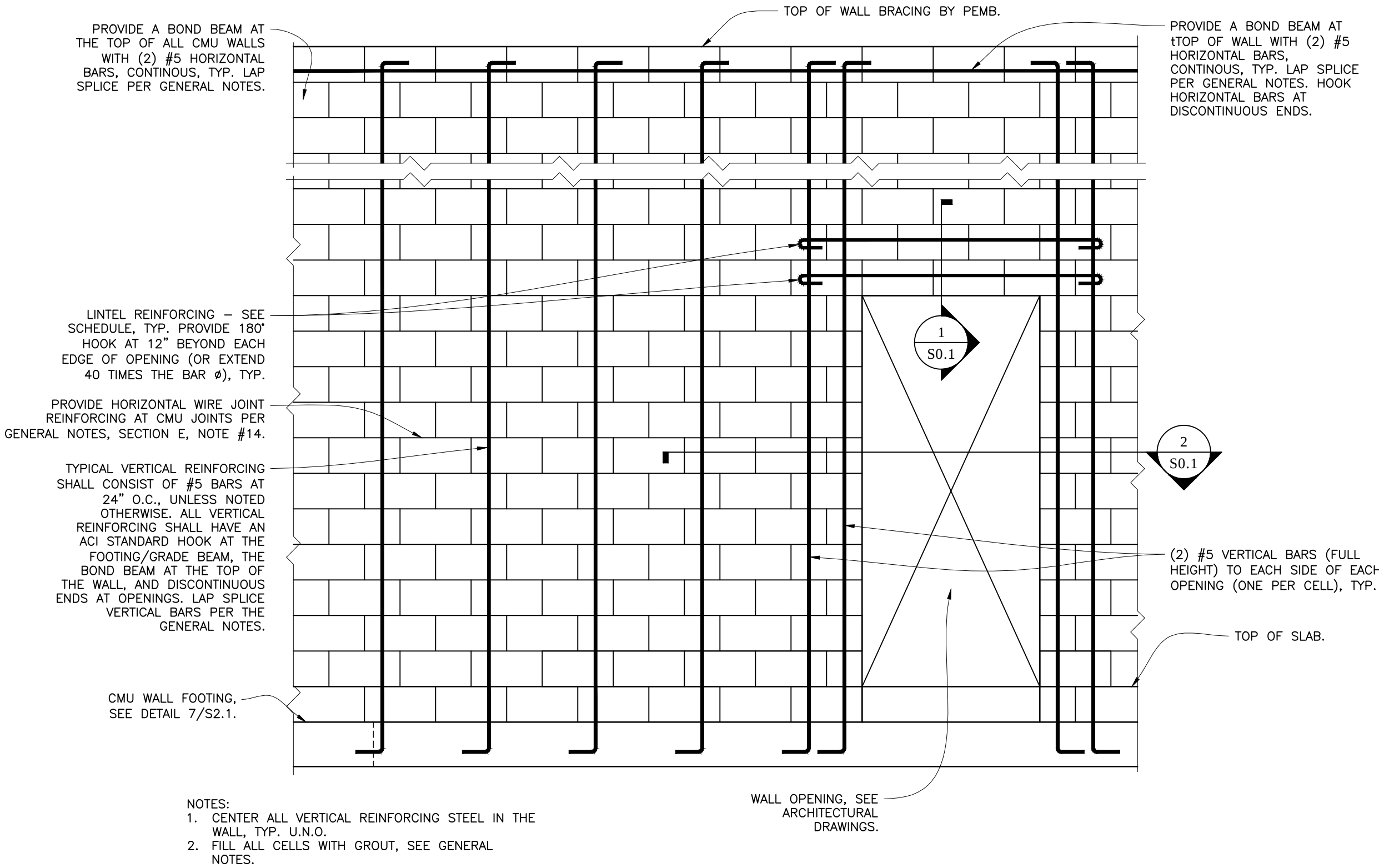
NOTE: ALL ABBREVIATIONS MAY BE WRITTEN WITH OR WITHOUT PERIODS.



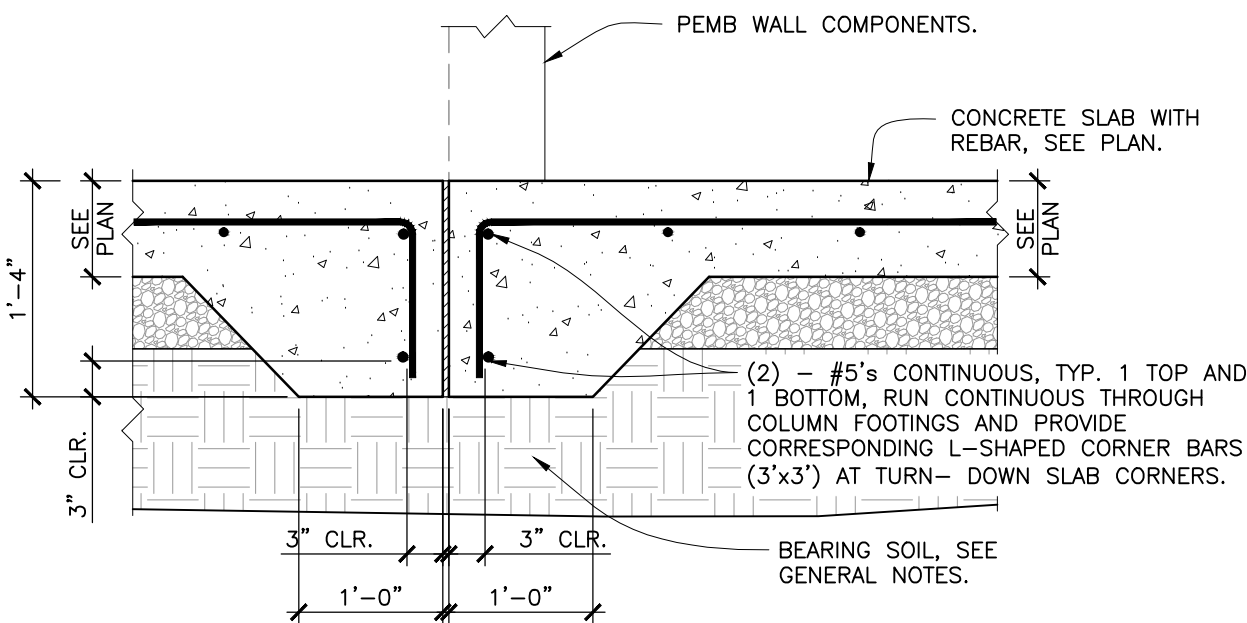
1 SECTION AT TYPICAL CMU LINTEL
S0.1 SCALE: 1" = 1'-0"



2 PLAN VIEW DETAIL AT TYPICAL CMU JAMB
S0.1 SCALE: 1" = 1'-0"



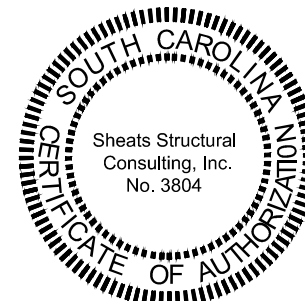
3 PARTIAL ELEVATION AT TYPICAL CMU WALL SHOWING REINFORCING
S0.1 SCALE: 1/2" = 1'-0"



4 SECTION AT JOINT AT GRIDLINE 2
S0.1 SCALE: 3/4" = 1'-0"

STRUCTURAL DESIGN

SHEATS STRUCTURAL CONSULTING, INC.
Office: 70 N. Broad St., Suite E
Mail: P.O. Box 1775
Winder, Georgia 30680
P - 770-307-0221 / F - 770-307-0311
www.sheatsconsulting.com



538 DISCOVERY PLACE
MABLETON, GEORGIA 30126
404-799-0101

ABUCK BUILDERS
DESIGNERS

**WASTE MANAGEMENT
HAULING FACILITY**

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

GENERAL
NOTES &
DETAILS

DRAWN BY:

MKH

DRAWING NO.

JOB NO.

17-3550

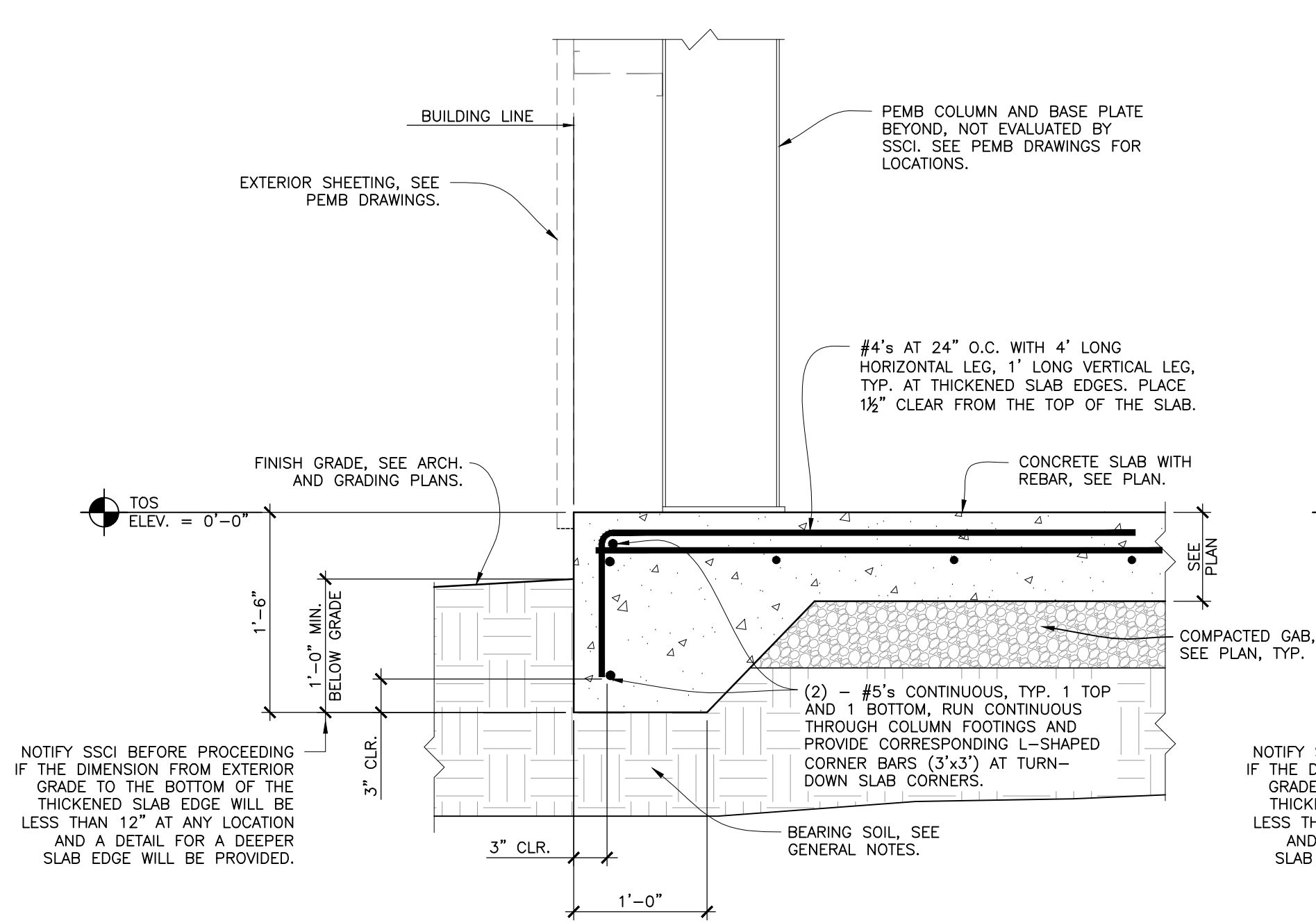
DATE

10/06/17

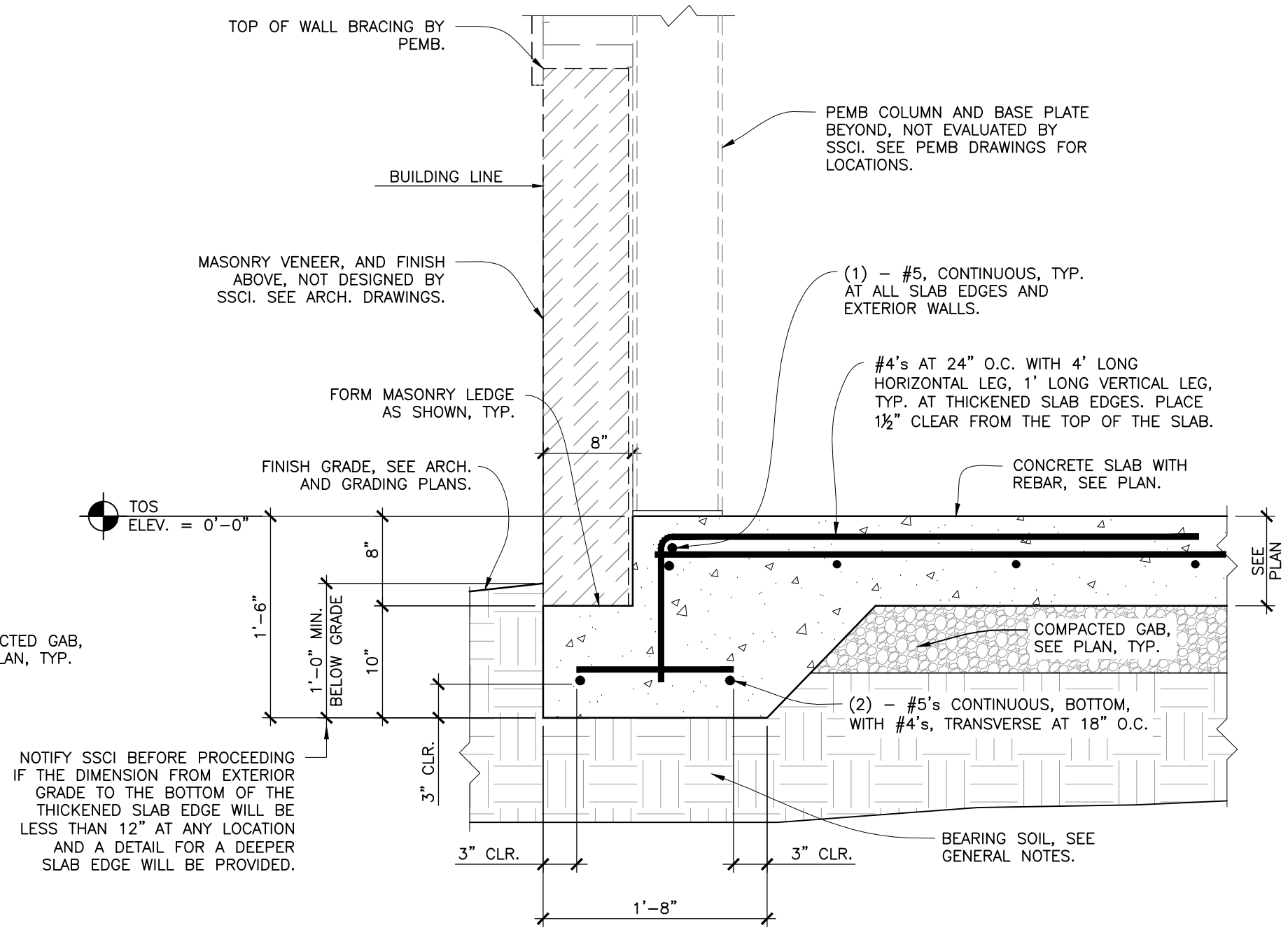
REVISIONS

SHEET NO.

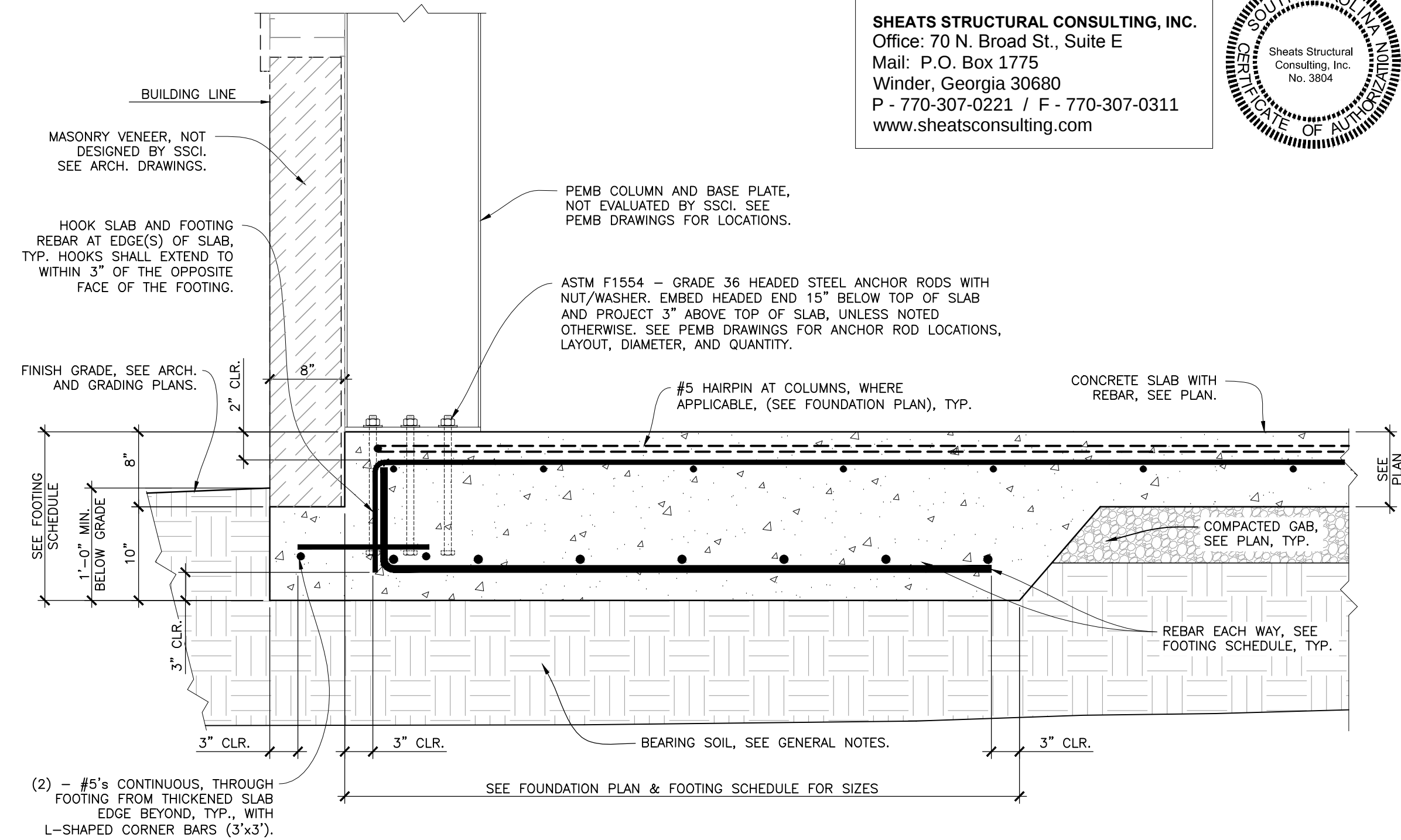
S0.1



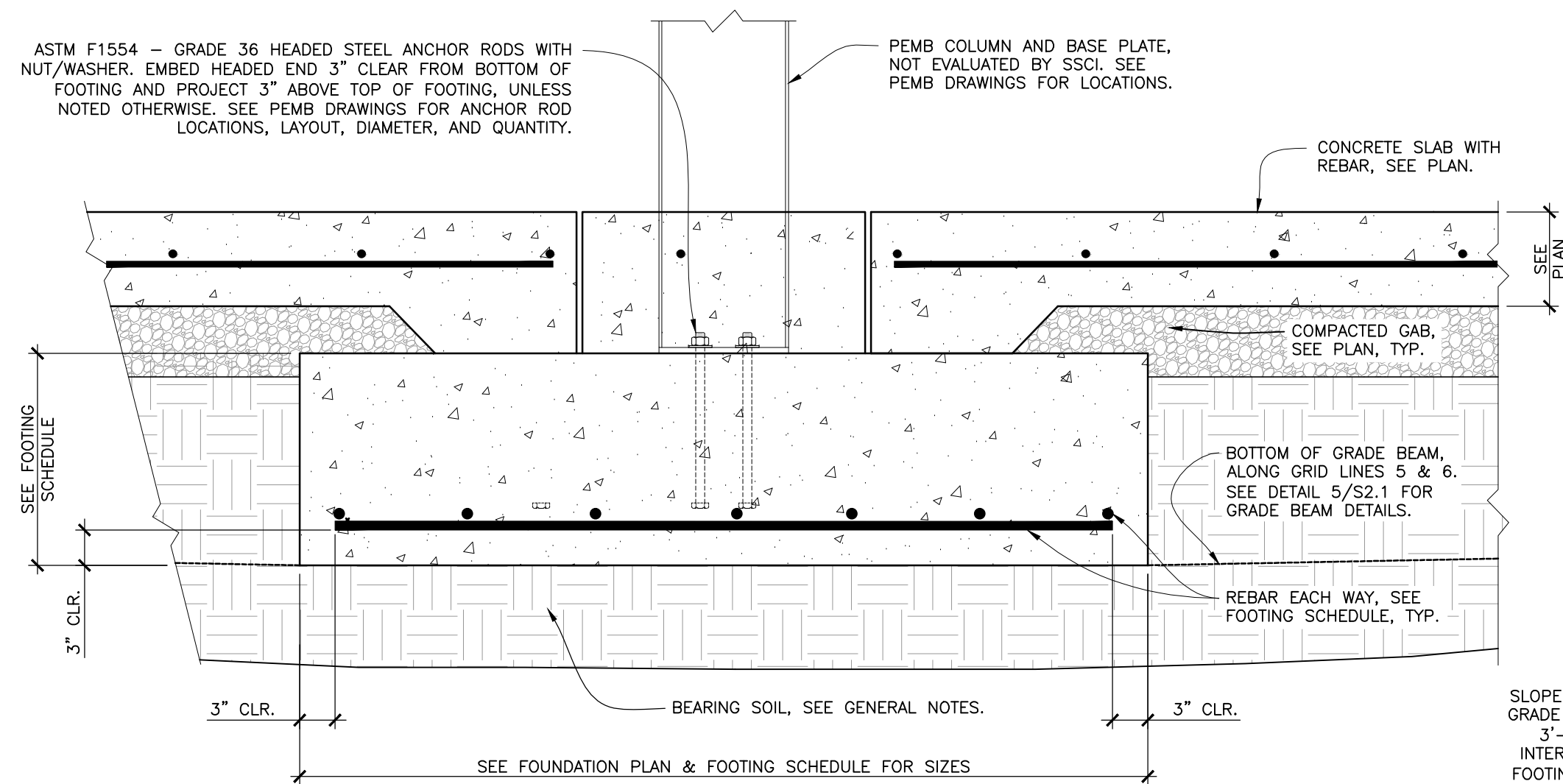
1 SECTION AT THICKENED SLAB EDGE AT SHEETING
S-2.1 SCALE: 1" = 1'-0"



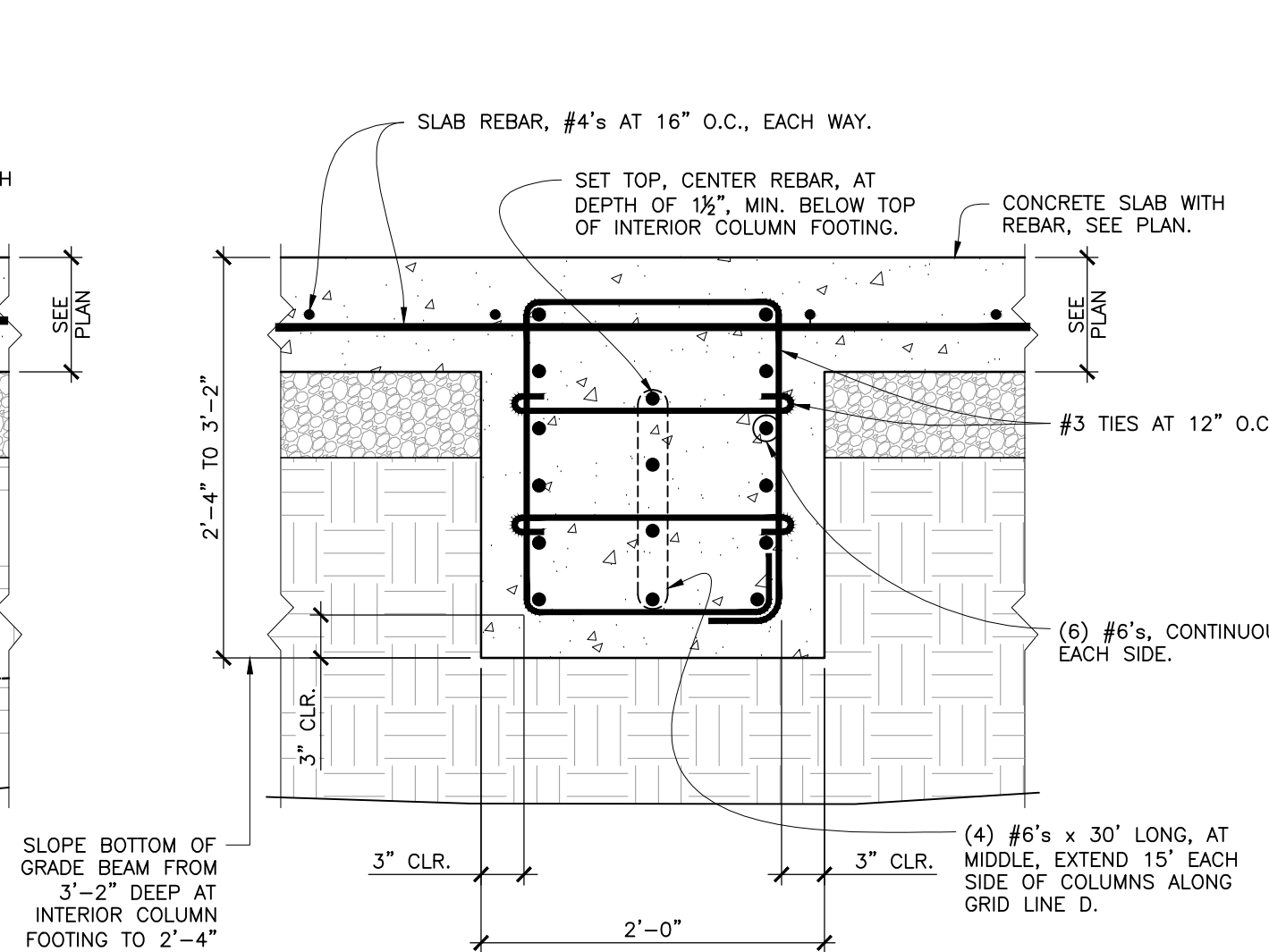
2 SECTION AT THICKENED SLAB EDGE AT MASONRY
S-2.1 SCALE: 1" = 1'-0"



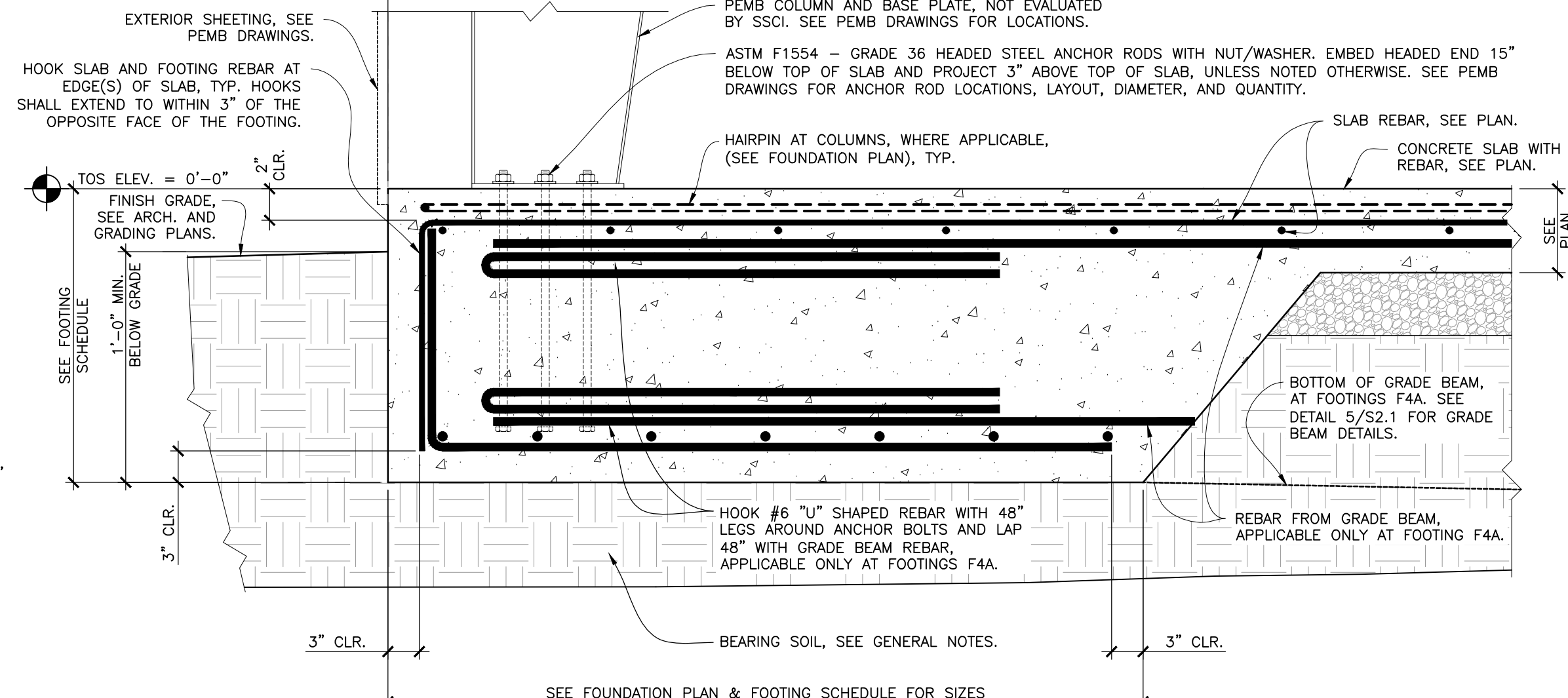
3 SECTION AT BUILDING PERIMETER COLUMN FOOTING WITH LEDGE FOR MASONRY
S-2.1 SCALE: 1" = 1'-0"



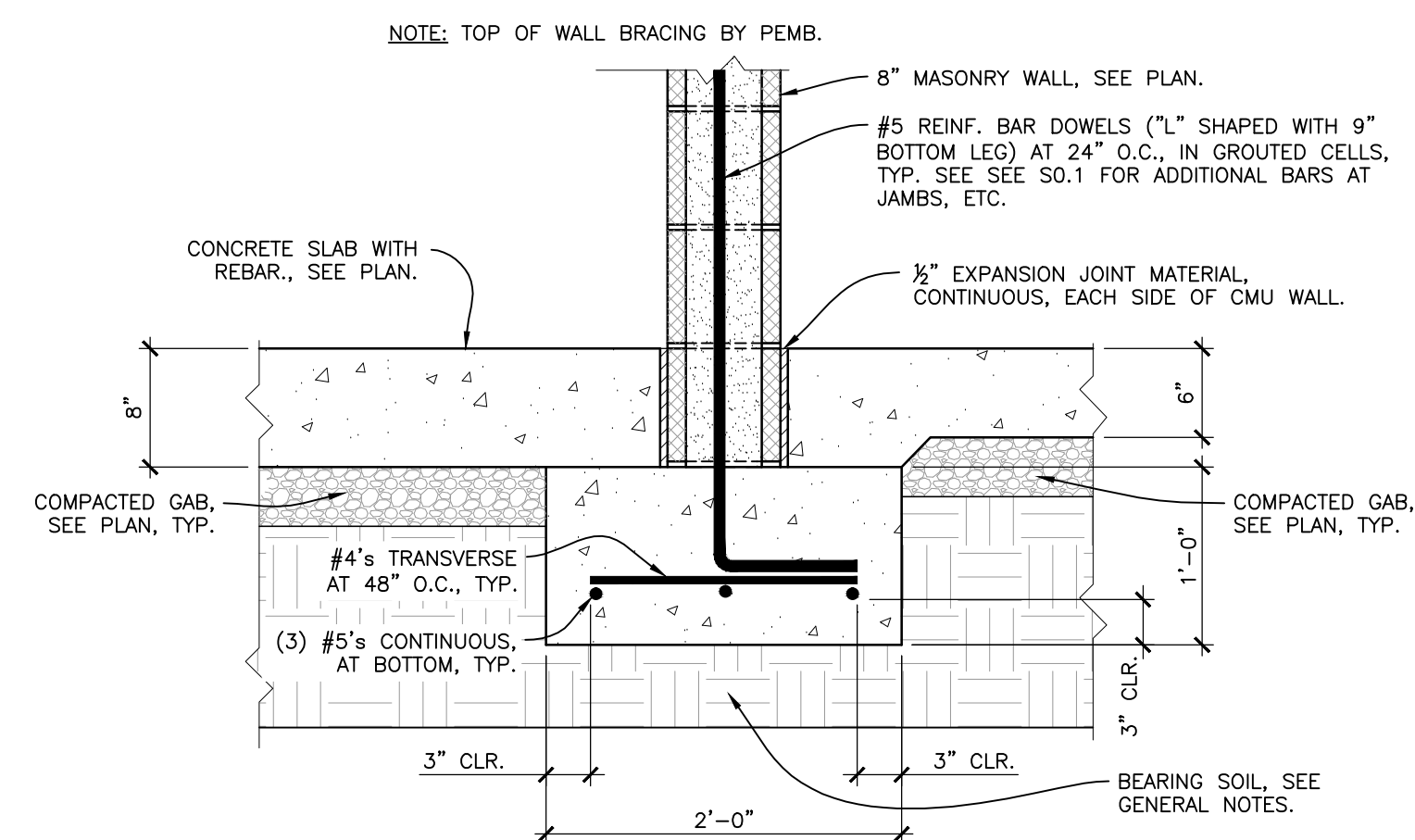
4 SECTION AT BUILDING INTERIOR COLUMN FOOTING
S-2.1 SCALE: 1" = 1'-0"



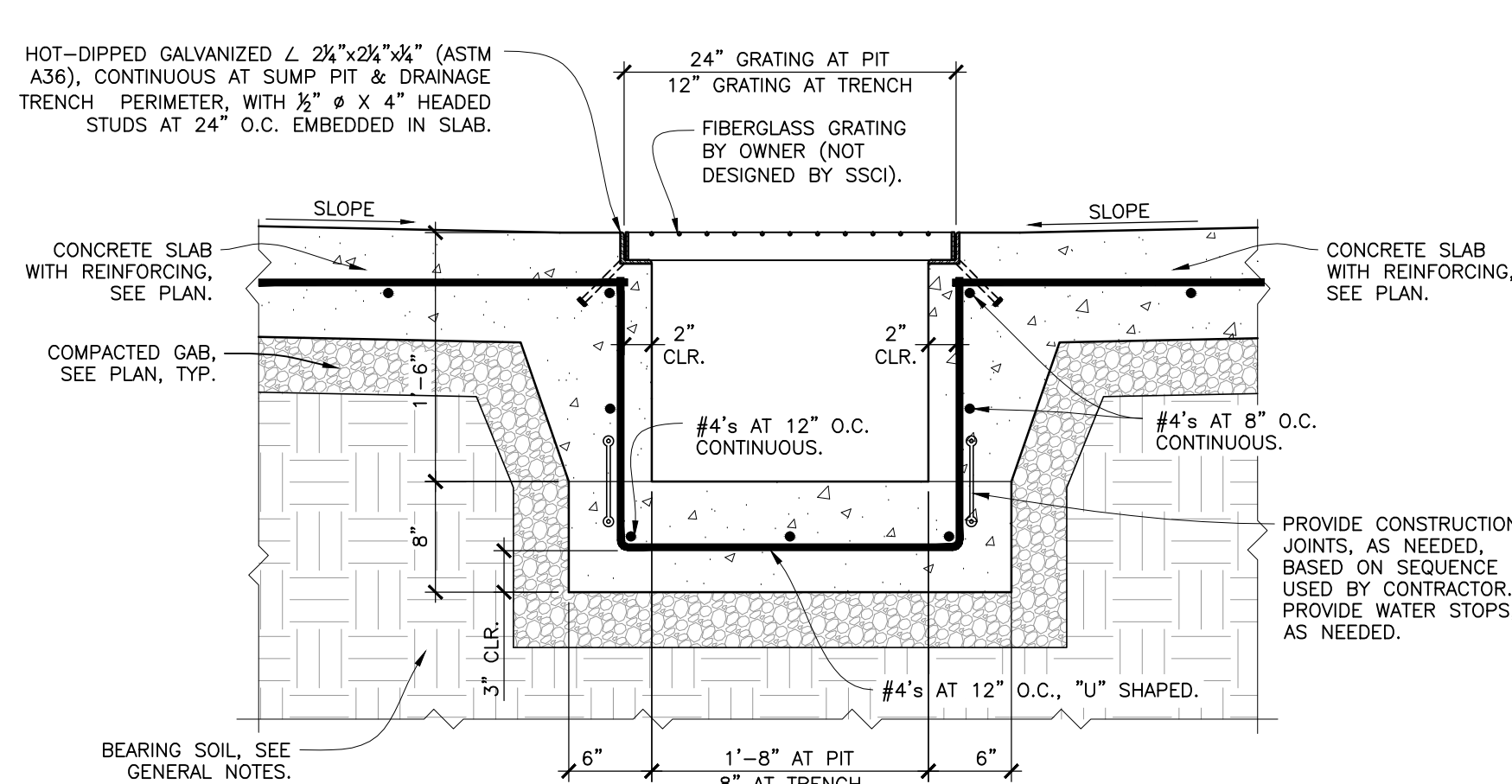
5 SECTION AT INTERIOR GRADE BEAM
S-2.1 SCALE: 1" = 1'-0"



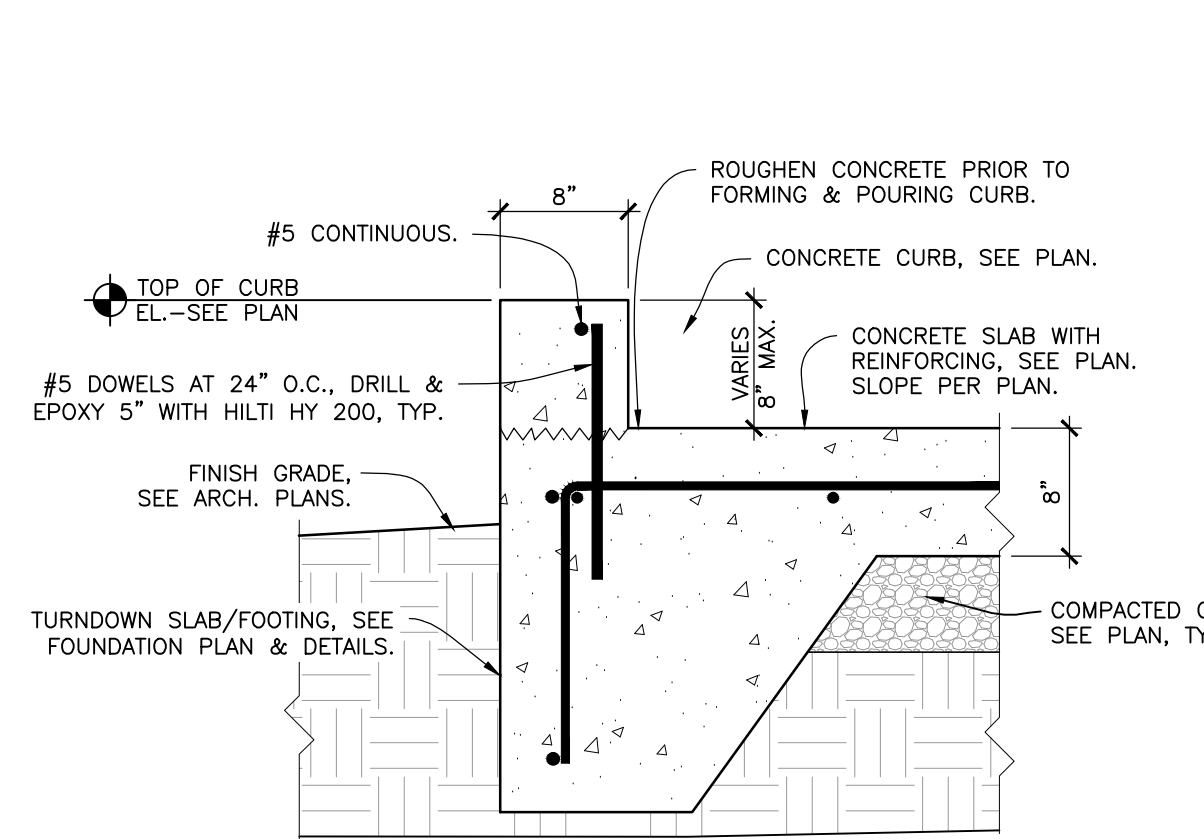
6 SECTION AT BUILDING PERIMETER COLUMN FOOTING
S-2.1 SCALE: 1" = 1'-0"



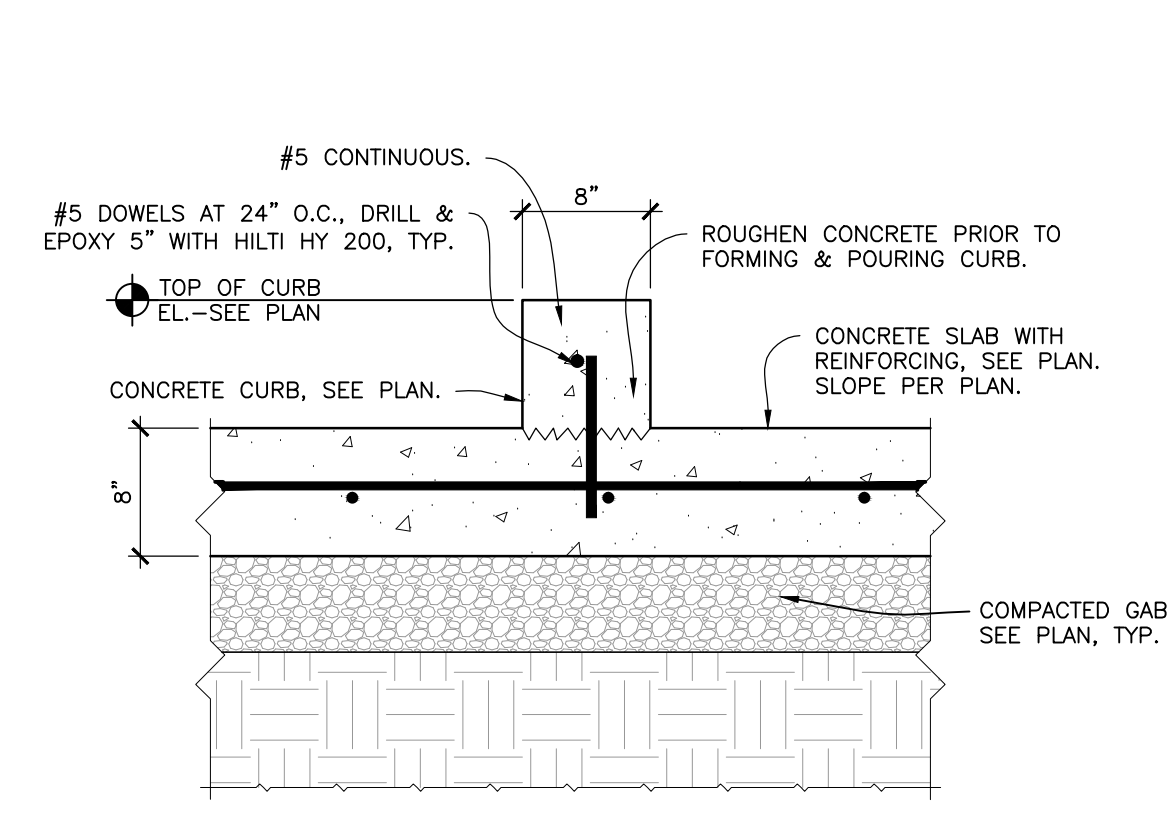
7 SECTION AT INTERIOR CMU WALL FOOTING
S-2.1 SCALE: 1" = 1'-0"



8 SECTION AT SUMP PIT AND TRENCH DRAIN
S-2.1 SCALE: 1" = 1'-0"



9 SECTION AT PERIMETER CURB ON SLAB
S-2.1 SCALE: 1" = 1'-0"



10 SECTION AT INTERIOR CURB ON SLAB
S-2.1 SCALE: 1" = 1'-0"

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538 DISCOVERY PLACE
MABLETON, GEORGIA 30128
404-799-0101

ABUCK
DESIGNERS — BUILDERS

**WASTE MANAGEMENT
HAULING FACILITY**

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

DETAILS

DRAWN BY:

MKH

DRAWING NO.

JOB NO.

17-3550

DATE

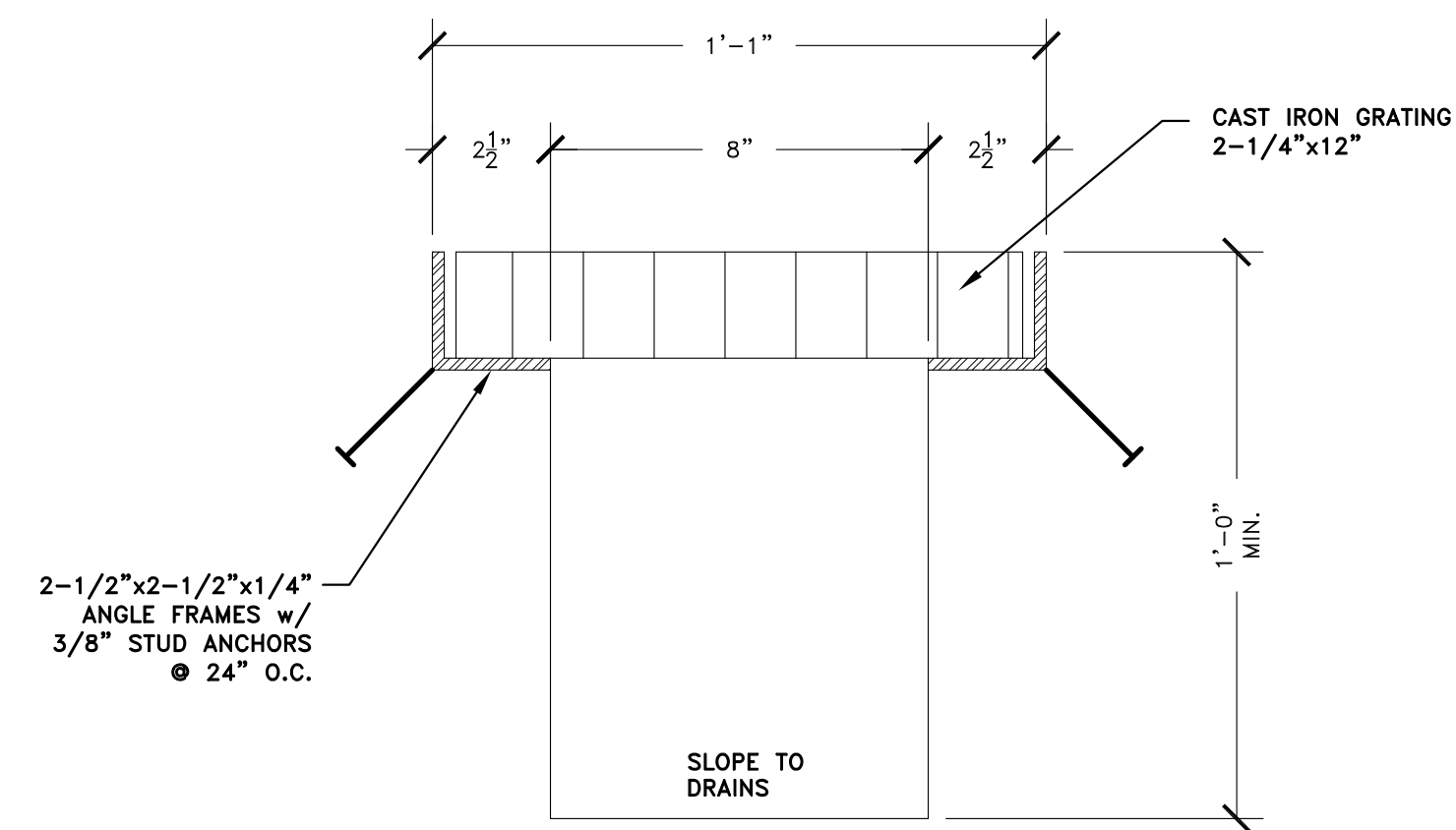
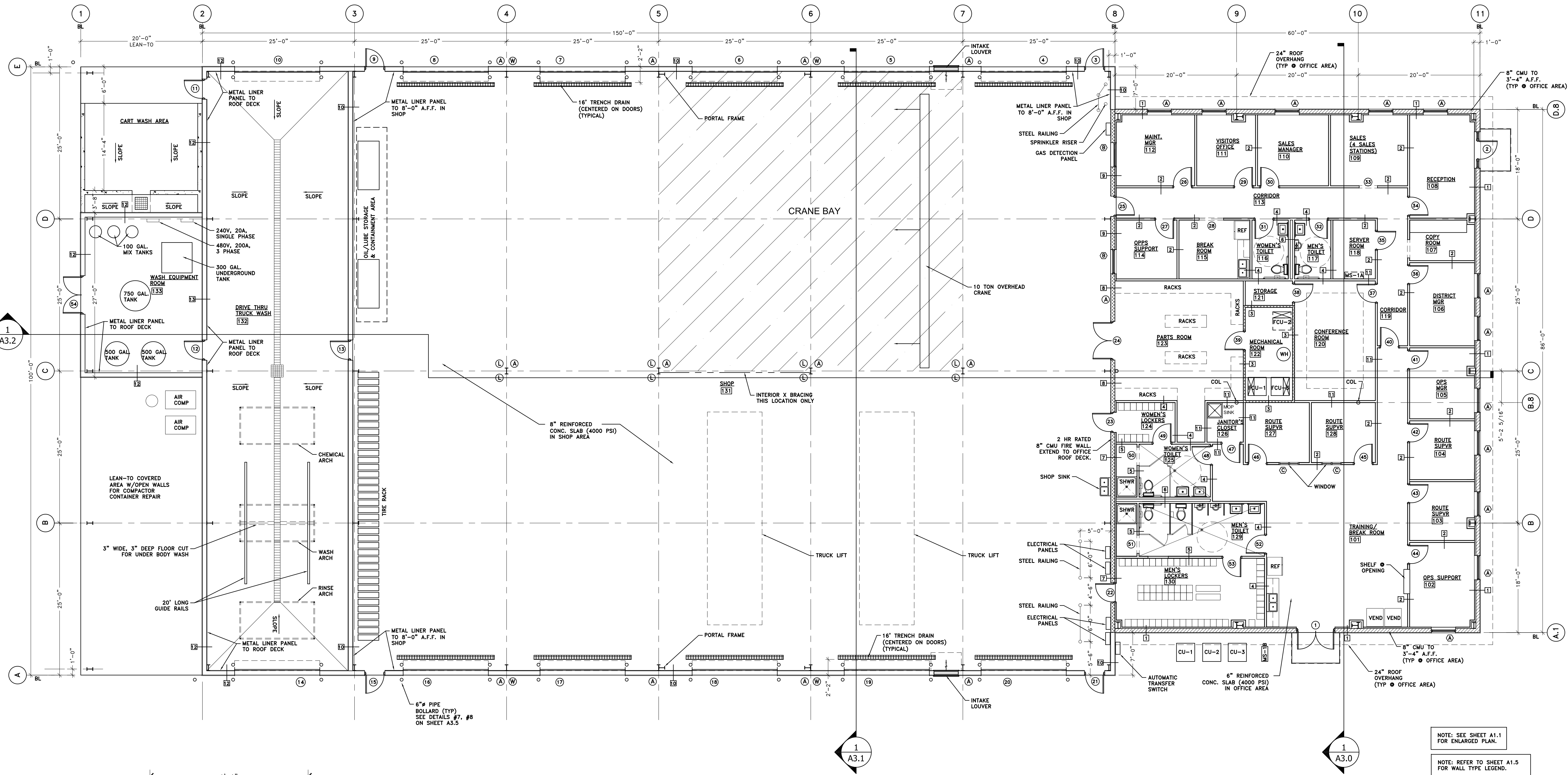
10/06/17

REVISIONS

SHEET NO.

S2.1

NOTE: WASH EQUIPMENT ROOM & EQUIPMENT LAYOUT IS DIAGRAMMATIC ONLY. REFER TO TRUCK WASH EQUIPMENT SUBMITTALS FOR CORRECT LAYOUT.



2 TRENCH DRAIN (TYP.)
SCALE: 3"=1'-0"

1 OVERALL FLOOR PLAN
SCALE: 1/8"=1'-0"



NOTE: SEE SHEET A1.1
FOR ENLARGED PLAN.

NOTE: REFER TO SHEET A1.5
FOR WALL TYPE LEGEND.

WASTE MANAGEMENT HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

OVERALL FLOOR PLAN

DRAWN BY:
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17-3550
DATE
11/07/17

REVISIONS

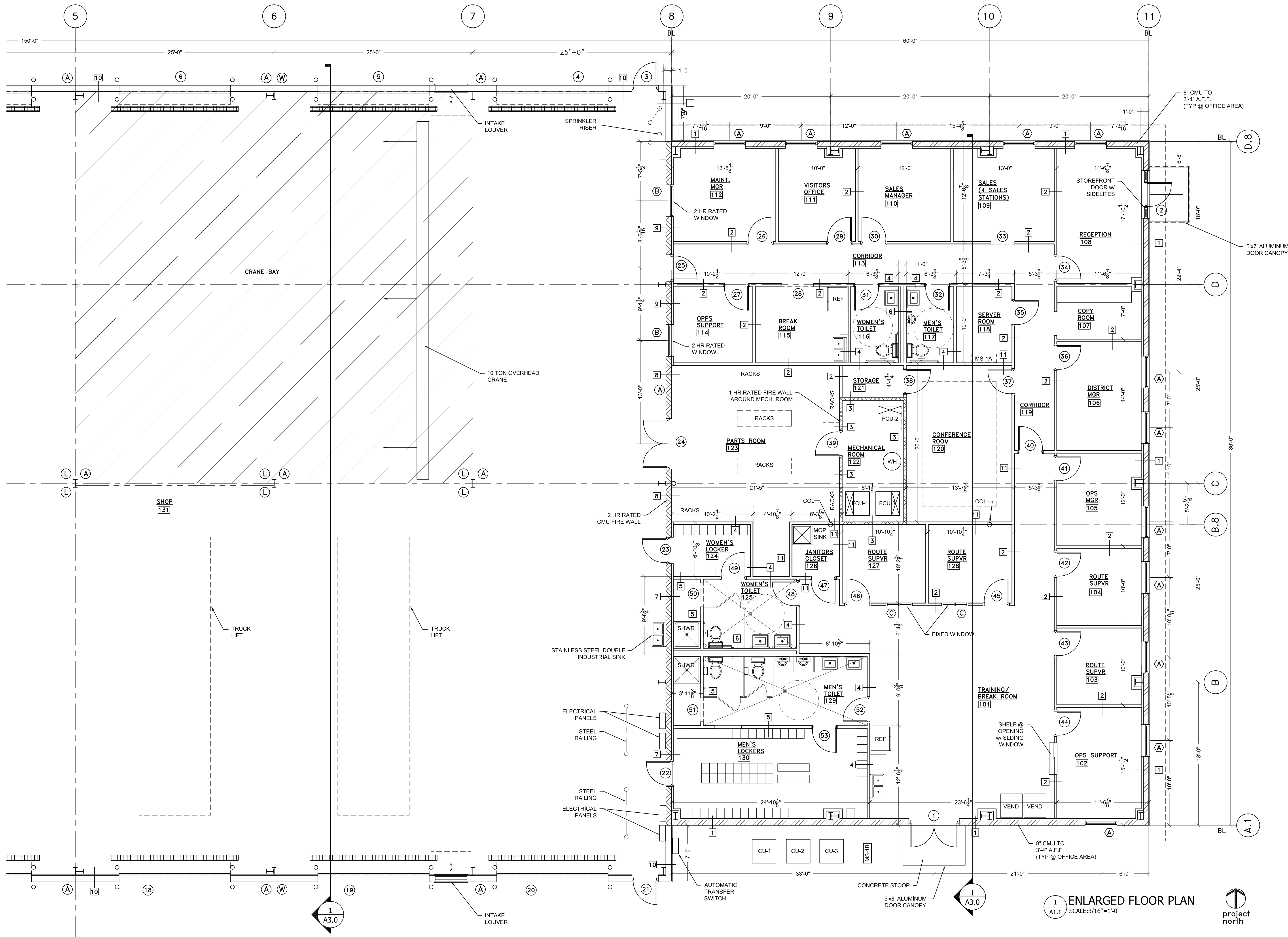
NO.	DESCRIPTION

SHEET NO.

A1.0

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1
A1.1 ENLARGED FLOOR PLAN
SCALE: 3/16" = 1'-0"



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HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

ENLARGED
FLOOR PLAN

DRAWN BY:
KM
DRAWING NO.

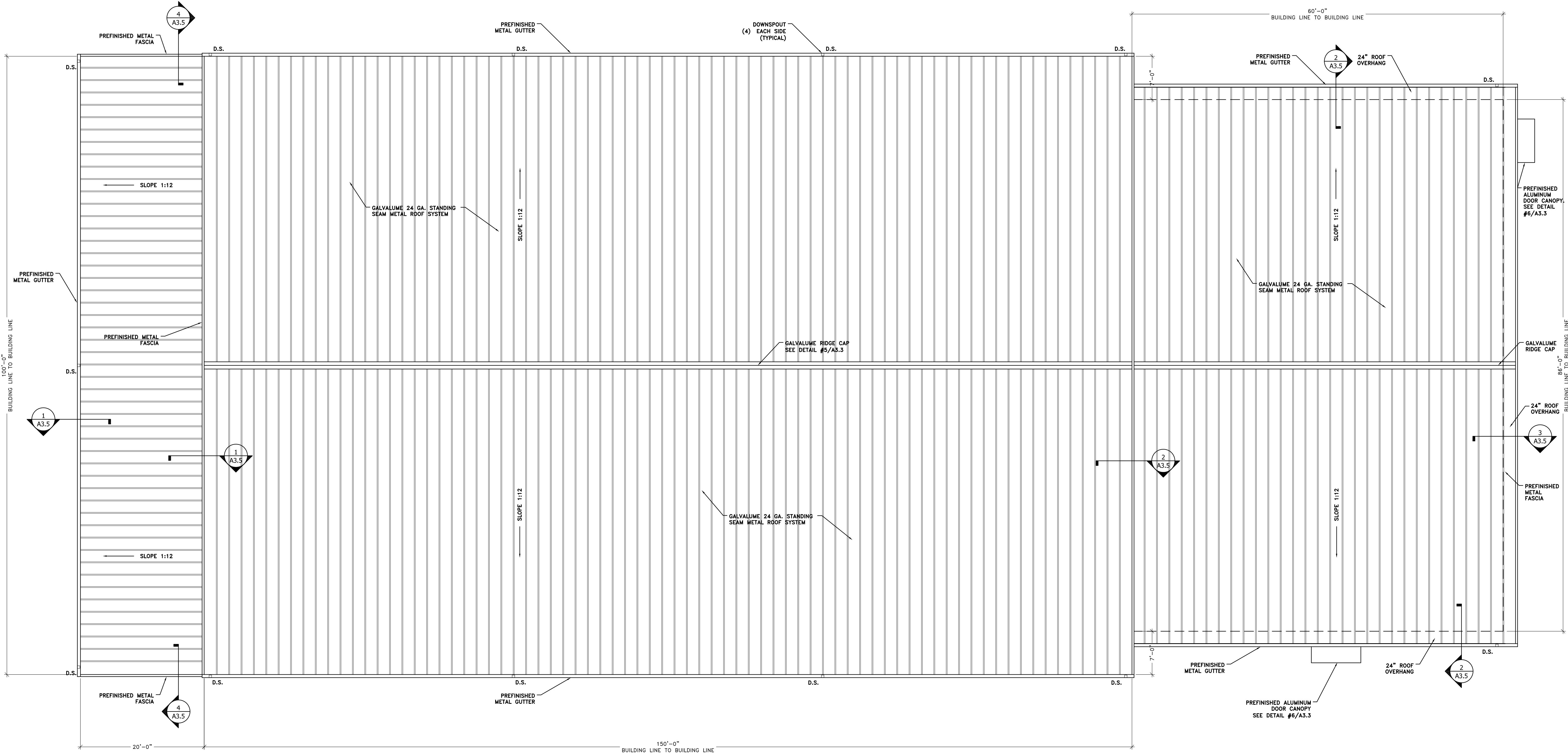
JOB NO.
17-3550

DATE
11/07/17

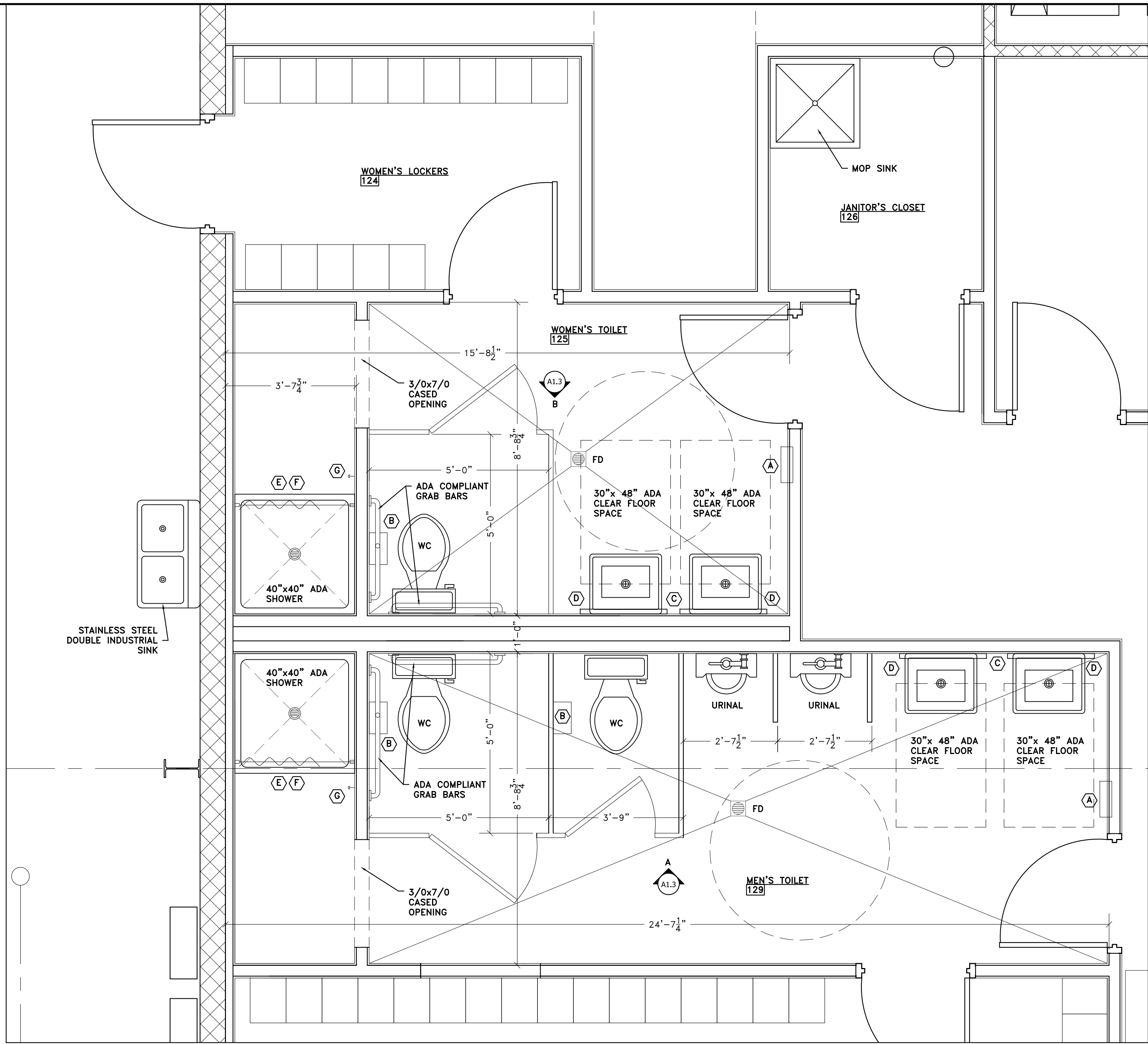
REVISIONS

SHEET NO.

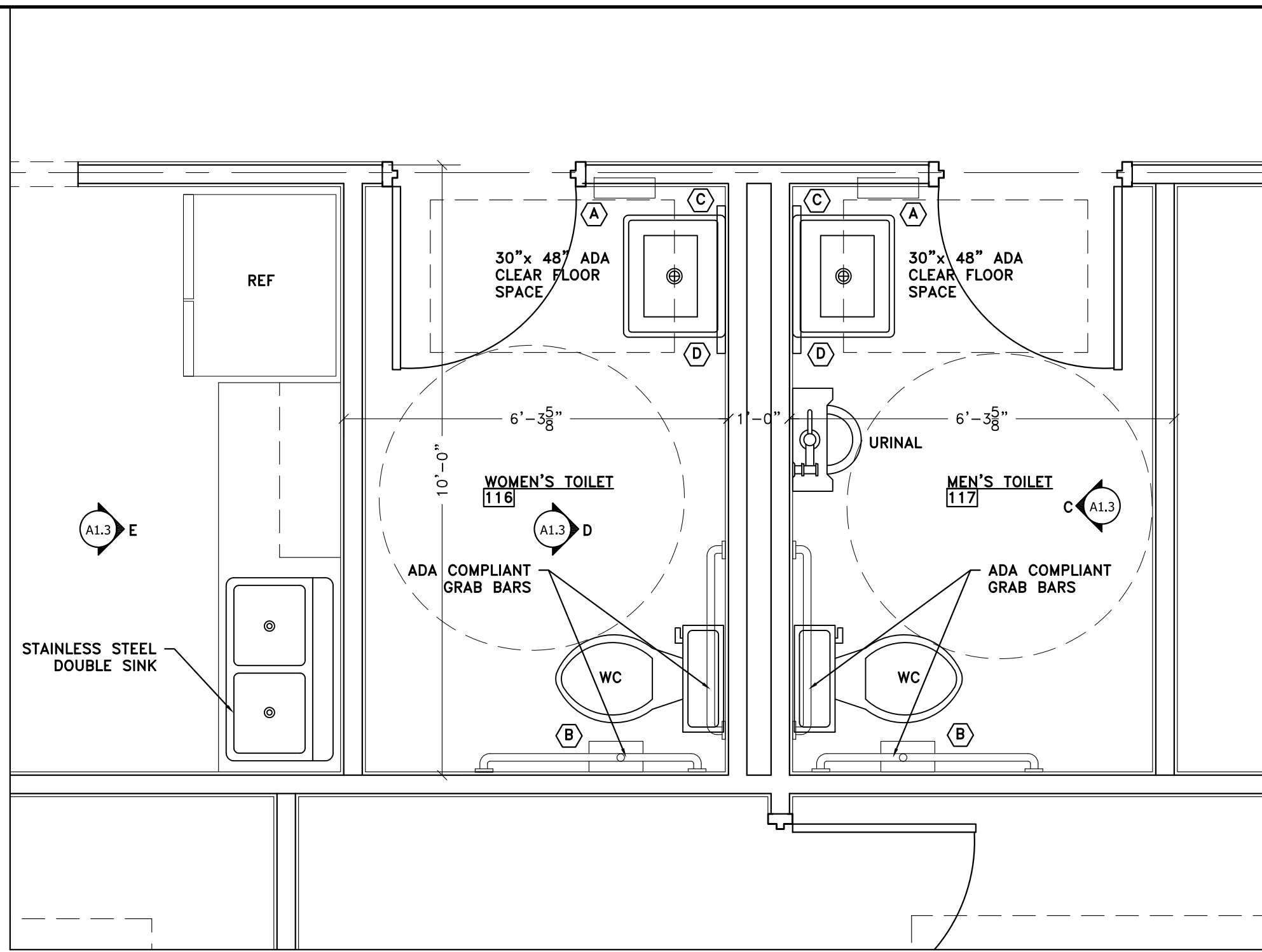
A1.1



NOTE:
1. SEE LIGHTNING PROTECTION SYSTEM FOR ROOF MOUNTED AIR TERMINALS.
2. PEMB INSTALLER TO LOCATE & INSTALL ANY ROOF PENETRATIONS.

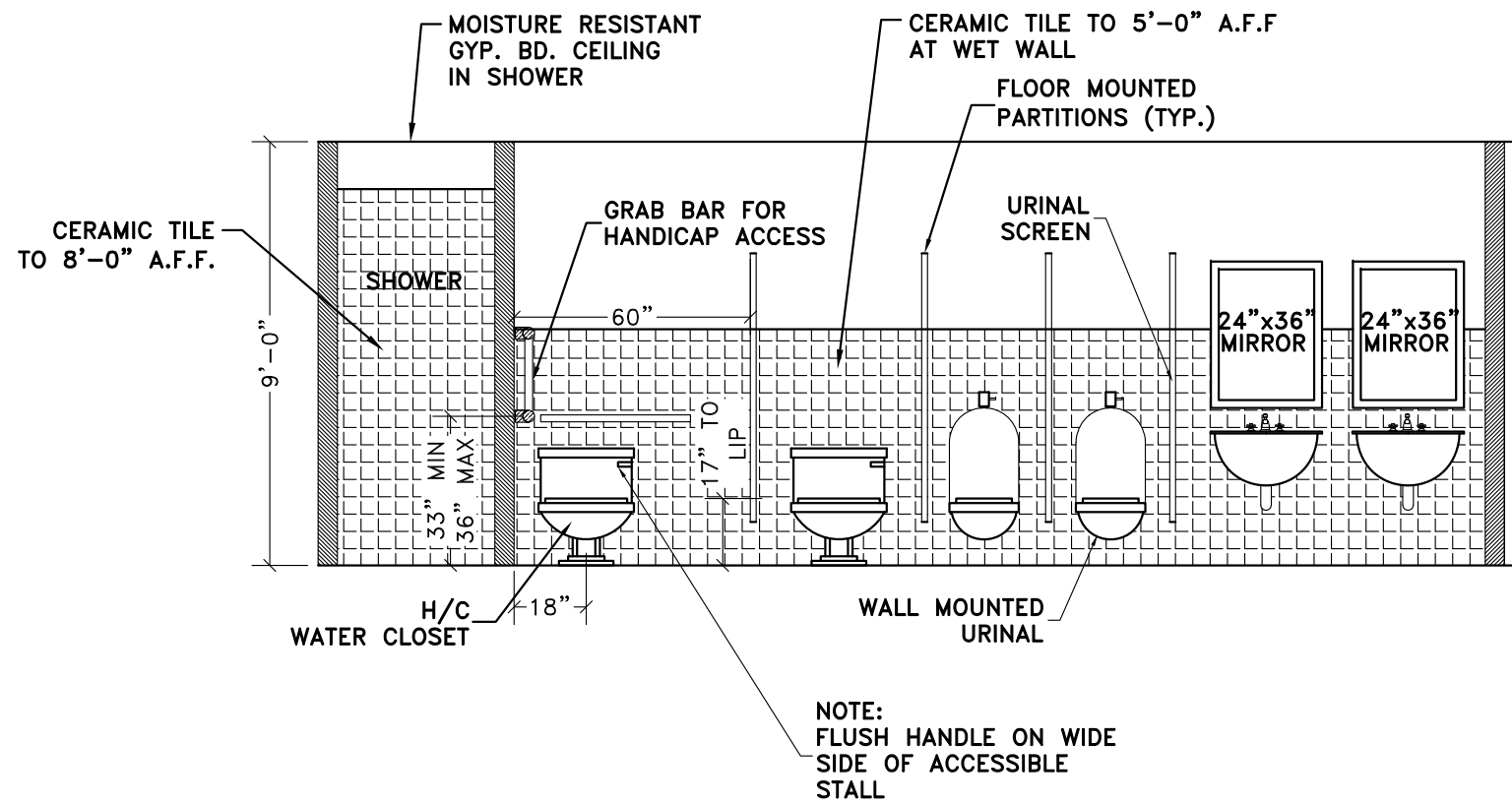


1 LARGE SCALE PLAN
A1.3 SCALE:1/2"=1'-0"

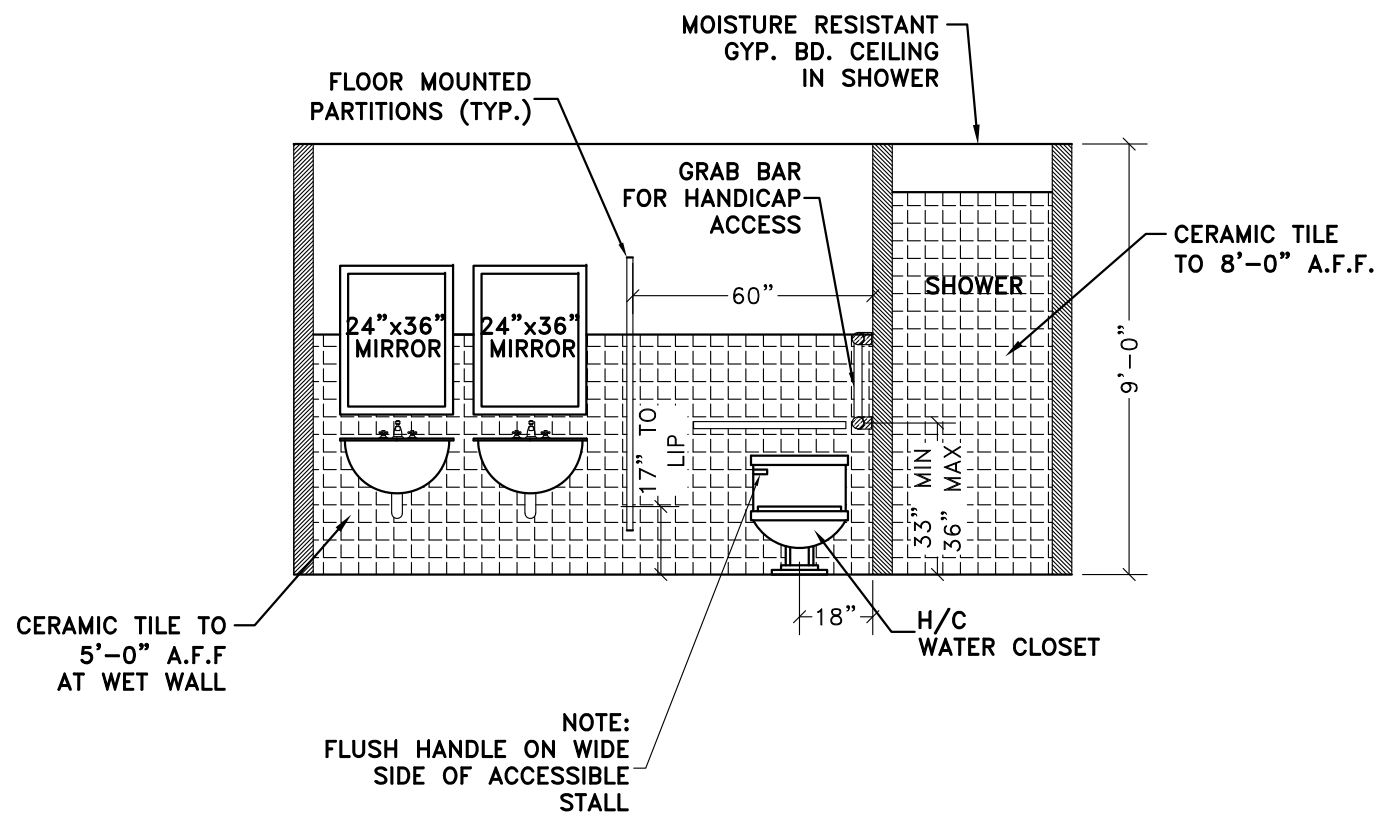


2 LARGE SCALE PLAN
A1.3 SCALE:1/2"=1'-0"

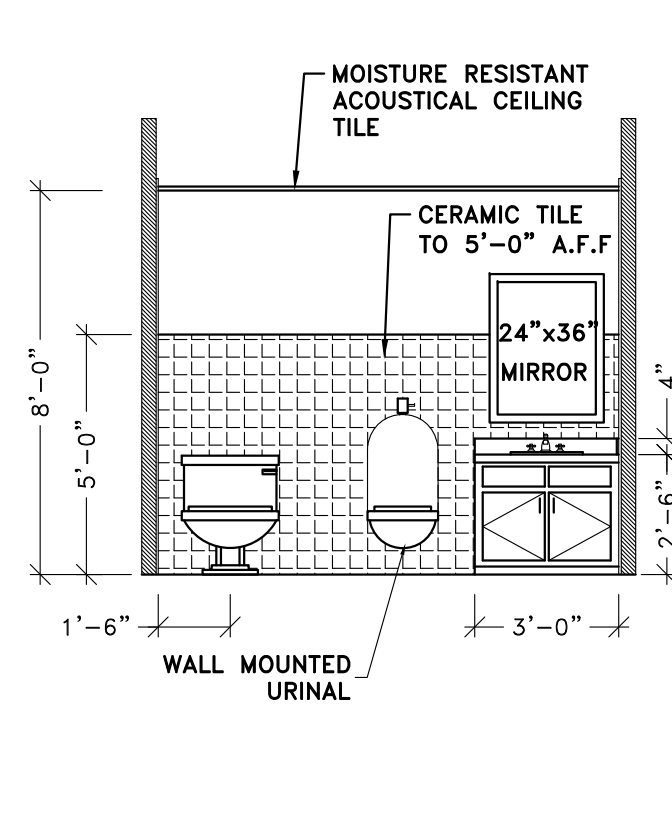
TOILET ACCESSORY SCHEDULE			
MARK	ACCESSORIES	PROVIDED BY OWNER	PROVIDED BY CONTRACTOR
A	COMBO PAPER TOWEL DISPENSER & WASTE RECEPTACLE SEMI RECESSED		X
B	TOILET TISSUE DISPENSER		X
C	LIQUID SOAP DISPENSER		X
D	24x36 MIRROR		X
E	CURTAIN ROD	X	
F	SHOWER CURTAIN	X	
G	TOWEL PIN		X



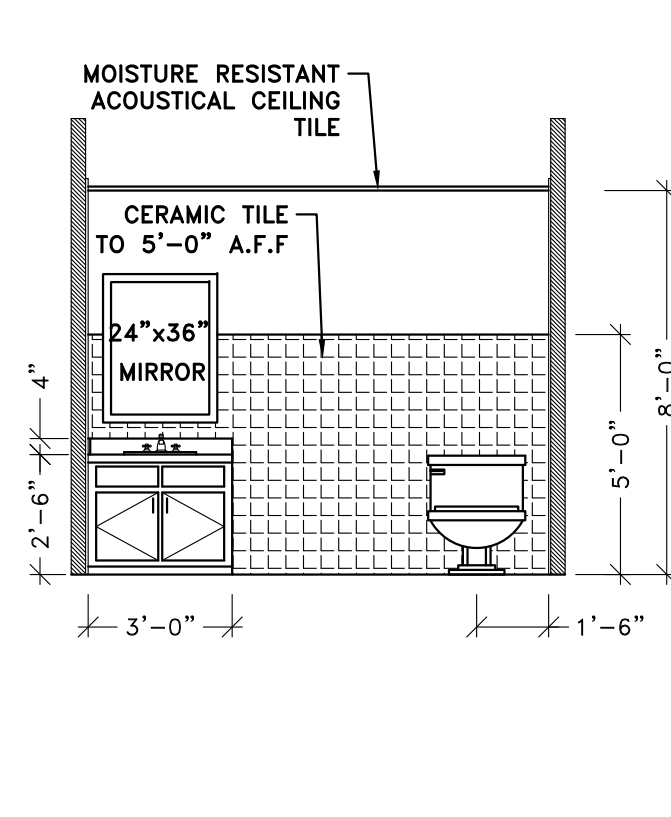
A INTERIOR ELEVATION
A1.3 SCALE:1/4"=1'-0"



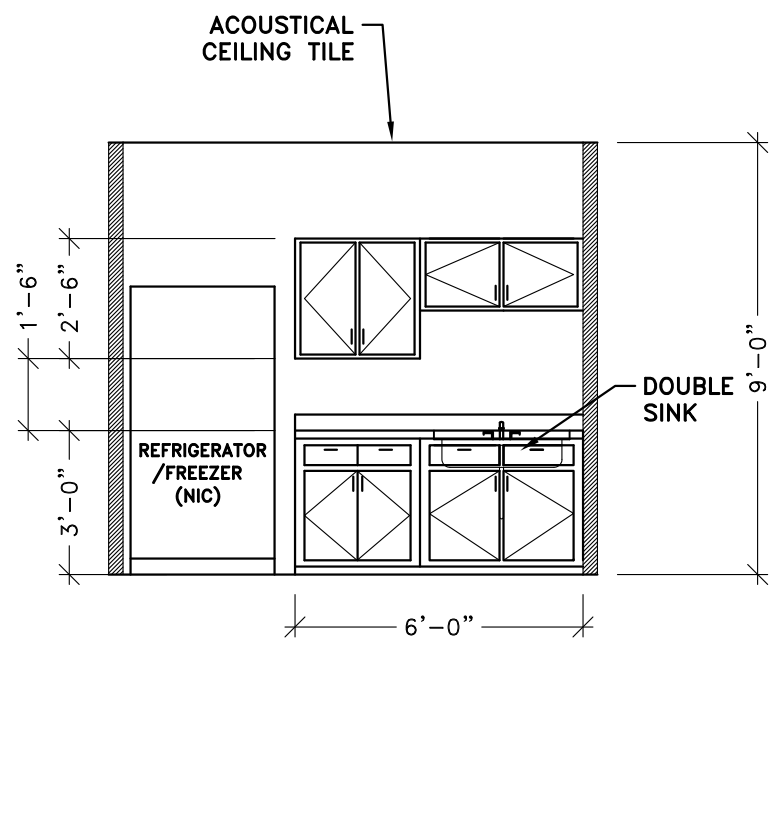
B INTERIOR ELEVATION
A1.3 SCALE:1/4"=1'-0"



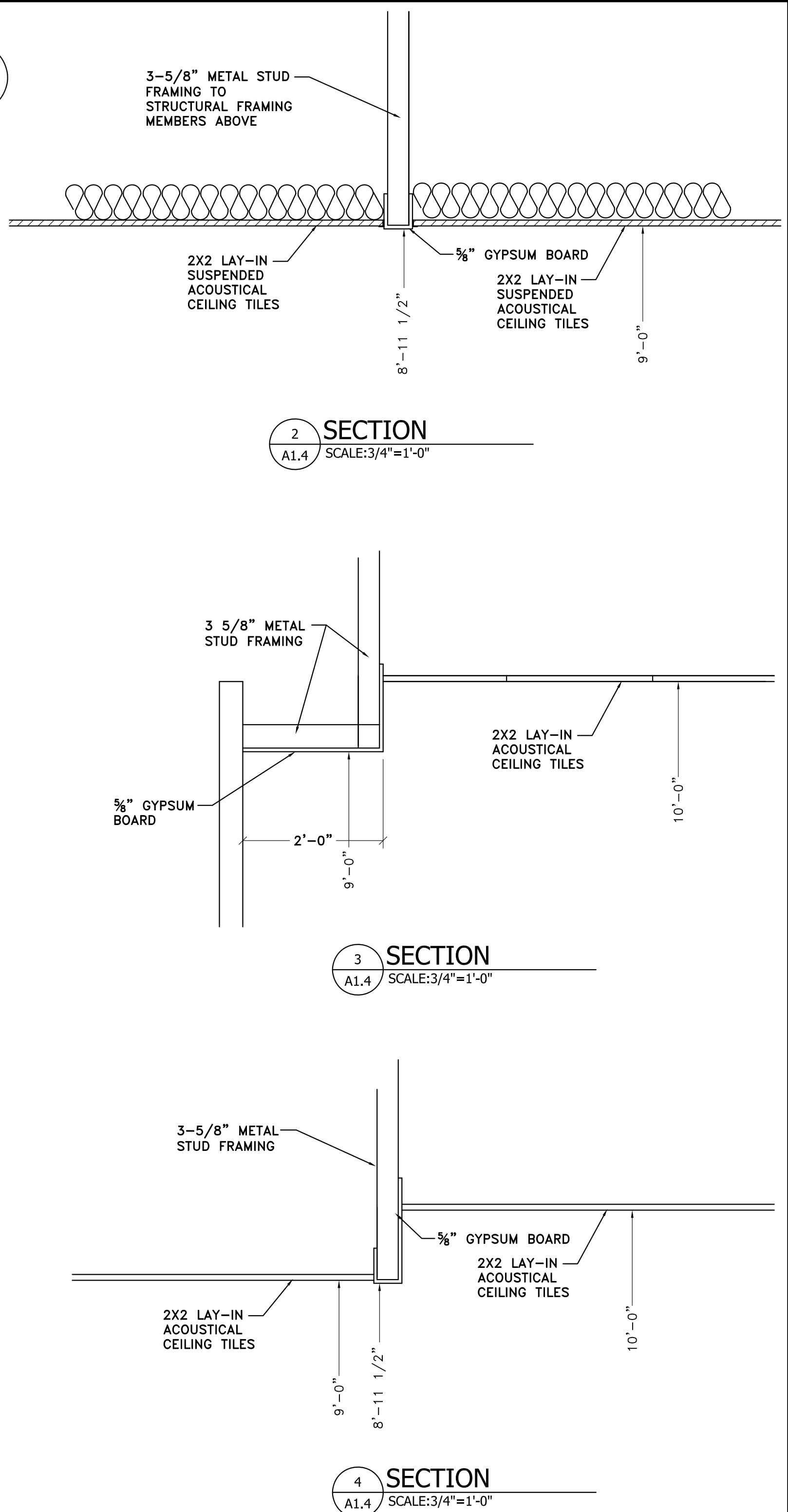
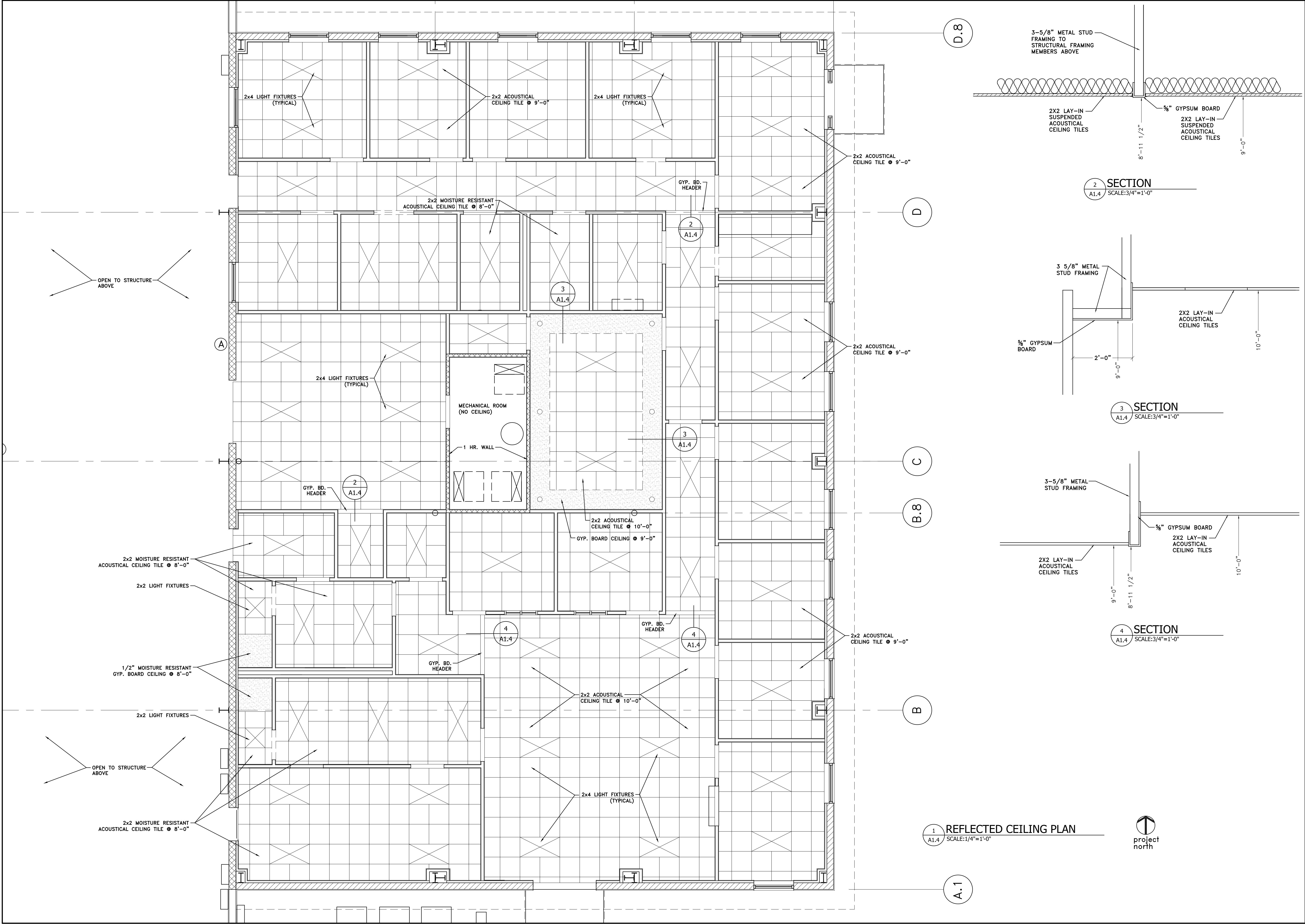
C INTERIOR ELEVATION
A1.3 SCALE:1/4"=1'-0"



D INTERIOR ELEVATION
A1.3 SCALE:1/4"=1'-0"



E INTERIOR ELEVATION
A1.3 SCALE:1/4"=1'-0"



626 DISCOVERY PLACE
MADEIRA PARK, FL 30156
404-798-0101

ABUCK
DESIGNERS — BUILDERS

**WASTE MANAGEMENT
HAULING FACILITY**
HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

REFLECTED
CEILING PLAN

DRAWN BY:
KM
DRAWING NO.

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17-3550
DATE
11/07/17

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SHEET NO.
A1.4

NOTES:

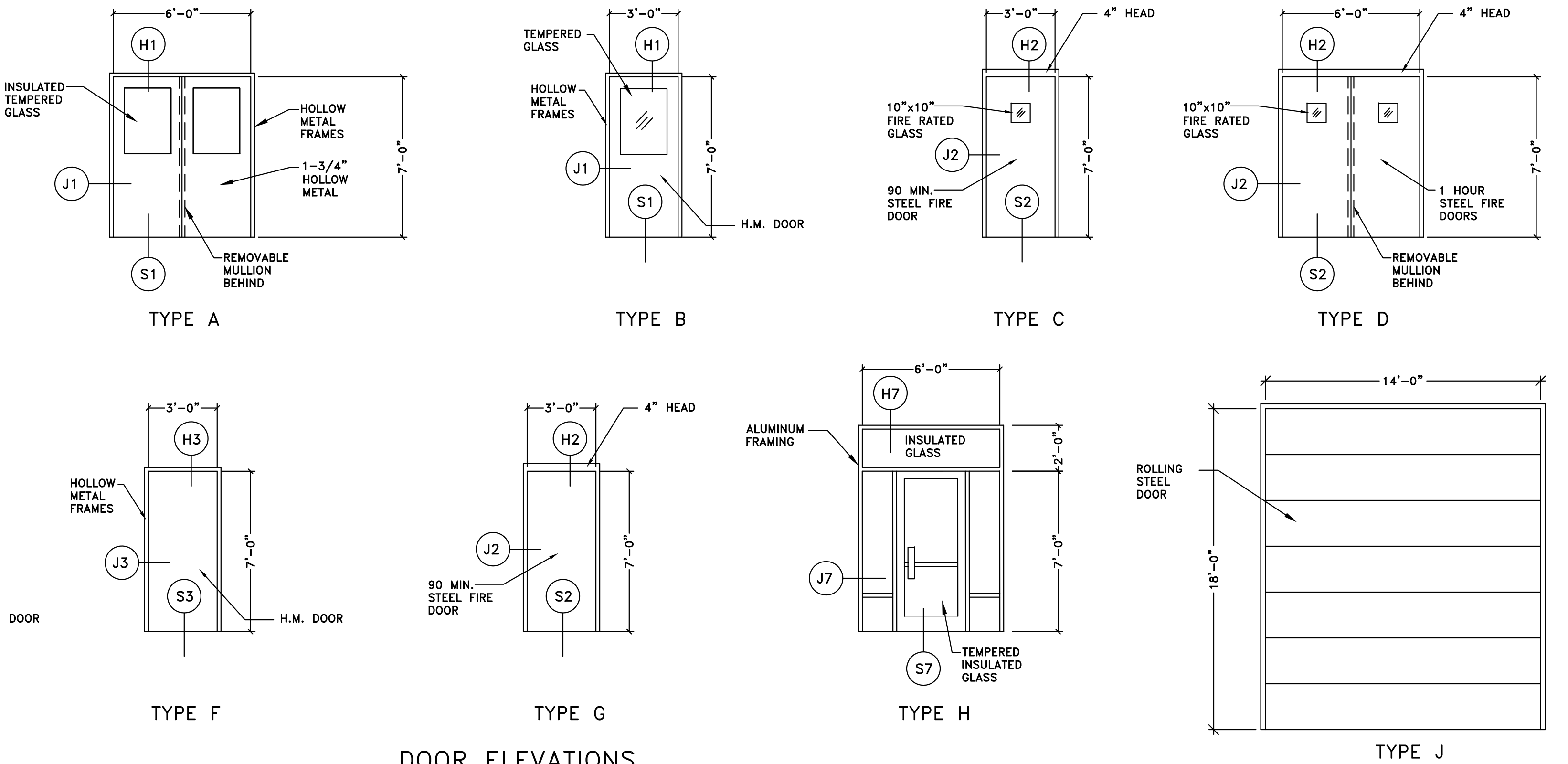
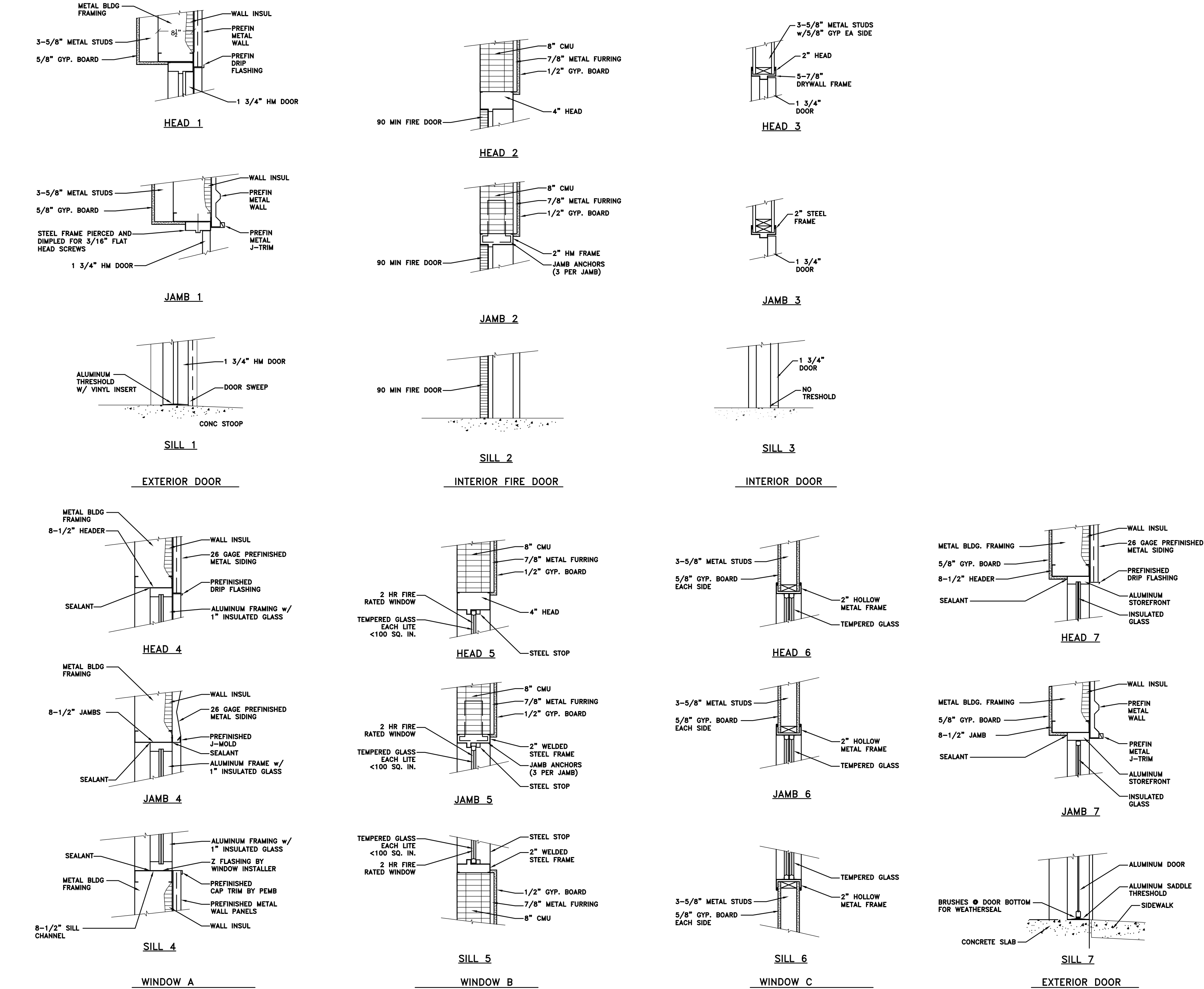
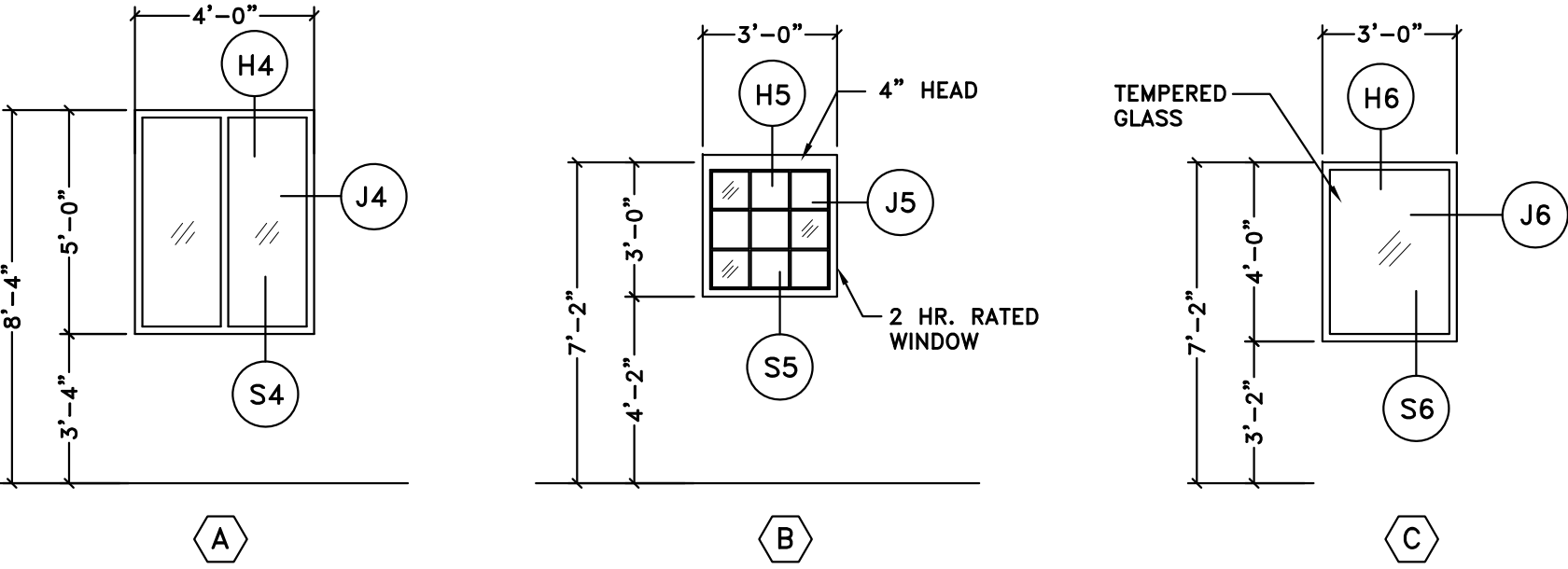
1. EXPOSED CONCRETE FLOOR TO RECEIVE HARD TROWEL FINISH AND LIBERAL COATING OF CONCRETE SEALER/CURING COMPOUND IN SHOP (130).
2. SEE FLOOR PLAN FOR LOCATION OF 2 HOUR FIRE WALL.
3. INSTALL DRYWALL EXPANSION JOINTS AT 20' MAXIMUM.
4. CERAMIC FLOOR TILE w/ WALL TILE TO 8'-0" A.F.F. IN SHOWERS.
5. SHOWER CEILINGS TO BE MOISTURE RESISTANT GYP. BOARD AT 8'-0" A.F.F.
6. METAL LINER PANEL ON THREE (3) INTERIOR WALLS. SEE FLOOR PLAN.

* CONTRACTOR TO PROVIDE WALL BOXES.
** CONTRACTOR TO PROVIDE (13) DROPS. SEE FLOOR PLAN
*** UTILITY HOOK UP BY CONTRACTOR

A1.5

DOOR SCHEDULE																			
NO.	TYPE	SIZE	SWING	DOOR	FRAME	DOOR	FRAME	HARDWARE				PUSH/PULL	PASSAGE SET	PRIVATE SET	LOCK SET	KEYING	DOOR SWEEP	THRESHOLD	REMARKS
								HINGE	PLATE	CLOSER	WEATHER STRIP	LATCH	STOP						
1	A	6'-0" X 7'-0"	—	HM	HM	PAINT	PAINT			●	●	●				MK/KA	●	●	
2	H	3'-0" X 7'-0"	LH	ALUM.	ALUM.	ALUM.	ALUM.			●	●	●				MK/KA		●	ALUMINUM STOREFRONT DOOR & SIDELITES
3	B	3'-0" X 7'-0"	LHR	HM	HM	PAINT	PAINT			●	●	●					●	●	
4	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
5	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
6	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
7	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
8	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
9	B	3'-0" X 7'-0"	RHR	HM	HM	PAINT	PAINT										●	●	
10	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
11	B	3'-0" X 7'-0"	LHR	HM	HM	PAINT	PAINT		●	●		●	●					●	
12	B	3'-0" X 7'-0"	LHR	HM	HM	PAINT	PAINT		●	●	●	●	●					●	
13	B	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT				●	●	●			●			
14	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
15	B	3'-0" X 7'-0"	LHR	HM	HM	PAINT	PAINT			●		●	●			●	●	●	
16	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
17	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
18	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
19	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
20	J	14'-0" X 18'-0"	—		STEEL	PREFIN.	PREFIN.												COILING STEEL DOOR
21	B	3'-0" X 7'-0"	RHR	HM	HM	PAINT	PAINT			●	●		●				●	●	
22	G	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT		●	●		●	●					●	1 HR. RATED DOOR
23	G	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT		●	●		●	●					●	1 HR. RATED DOOR
24	D	6'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT		●	●		●	●					●	1 HR. RATED DOOR
25	C	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT		●	●		●	●					●	1 HR. RATED DOOR
26	E	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT					●	●			●			
27	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●			●			
28	—	3'-0" X 7'-0"	—	—	HM	—	PAINT												CASED OPENING
29	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●				●		
30	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●				●		
31	F	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT					●	●						
32	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●						
33	—	3'-0" X 7'-0"	—	—	HM	—	PAINT												CASED OPENING
34	E	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT		●			●	●						
35	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●			●	●				●		
36	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●			●	●						
37	E	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT					●	●				●		
38	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●			●	●				●		
39	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●	●		●	●				●		
40	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●	●		●	●						
41	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●			●	●				●		
42	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●			●	●				●		
43	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●				●		
44	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●				●		
45	E	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT					●	●				●		
46	E	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●				●		
47	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT					●	●				●		
48	F	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT			●	●	●	●						
49	F	3'-0" X 7'-0"	RH	HM	HM	PAINT	PAINT			●	●	●	●						
50	—	3'-0" X 7'-0"	—	—	HM	—	PAINT												CASED OPENING
51	—	3'-0" X 7'-0"	—	—	HM	—	PAINT												CASED OPENING
52	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●	●		●	●						
53	F	3'-0" X 7'-0"	LH	HM	HM	PAINT	PAINT		●	●		●	●						
54	A	6'-0" X 7'-0"	—	HM	HM	PAINT	PAINT		●	●		●	●				●	●	

WINDOW SCHEDULE						
NO.	TYPE	WIDTH x HEIGHT	MATERIAL	FINISH	RATING	REMARKS
			FRAME	FRAME		
A		4'-0"x6'-0"	ALUM.	ALUM.		
B		3'-0"x3'-0"	STEEL	PAINTED		2 HR. FIRE RATED
C		3'-0"x4'-0"	H.M.	PAINTED		



526 DISCOVERY PLACE
MABLETON, GA 30156
404-992-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

DOOR &
WINDOW
SCHEDULES

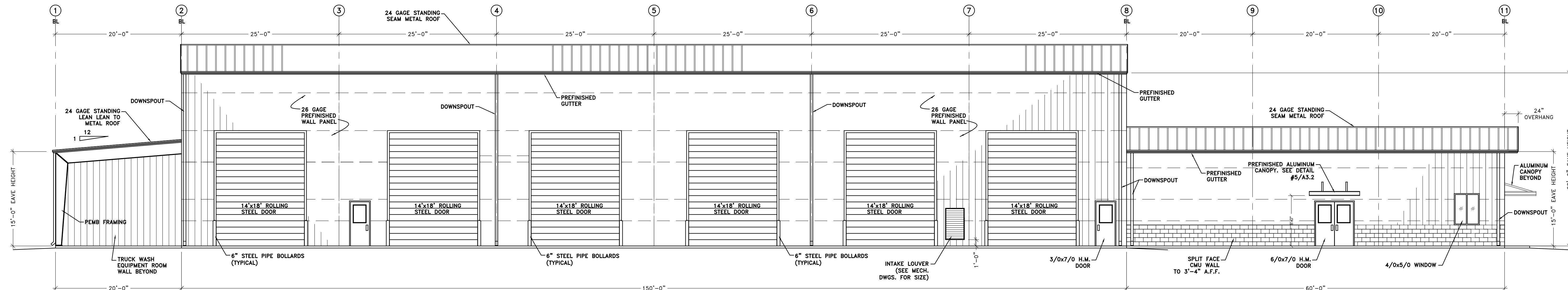
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DRAWING NO.

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17-3550
DATE
11/07/17

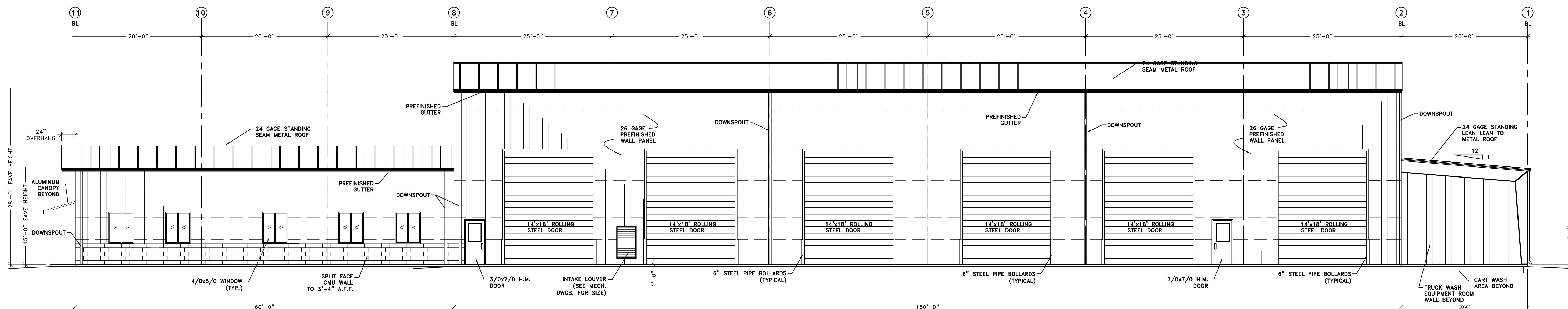
REVISIONS

SHEET NO.

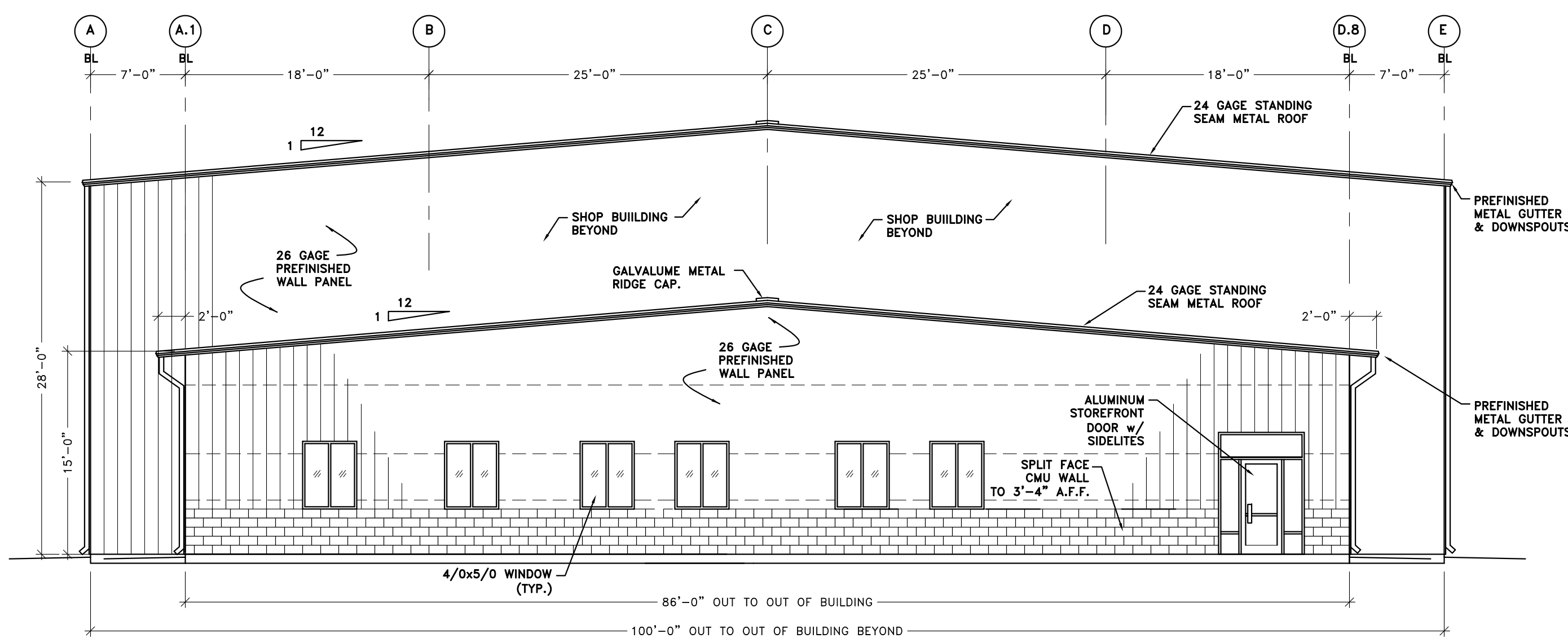
A1.6



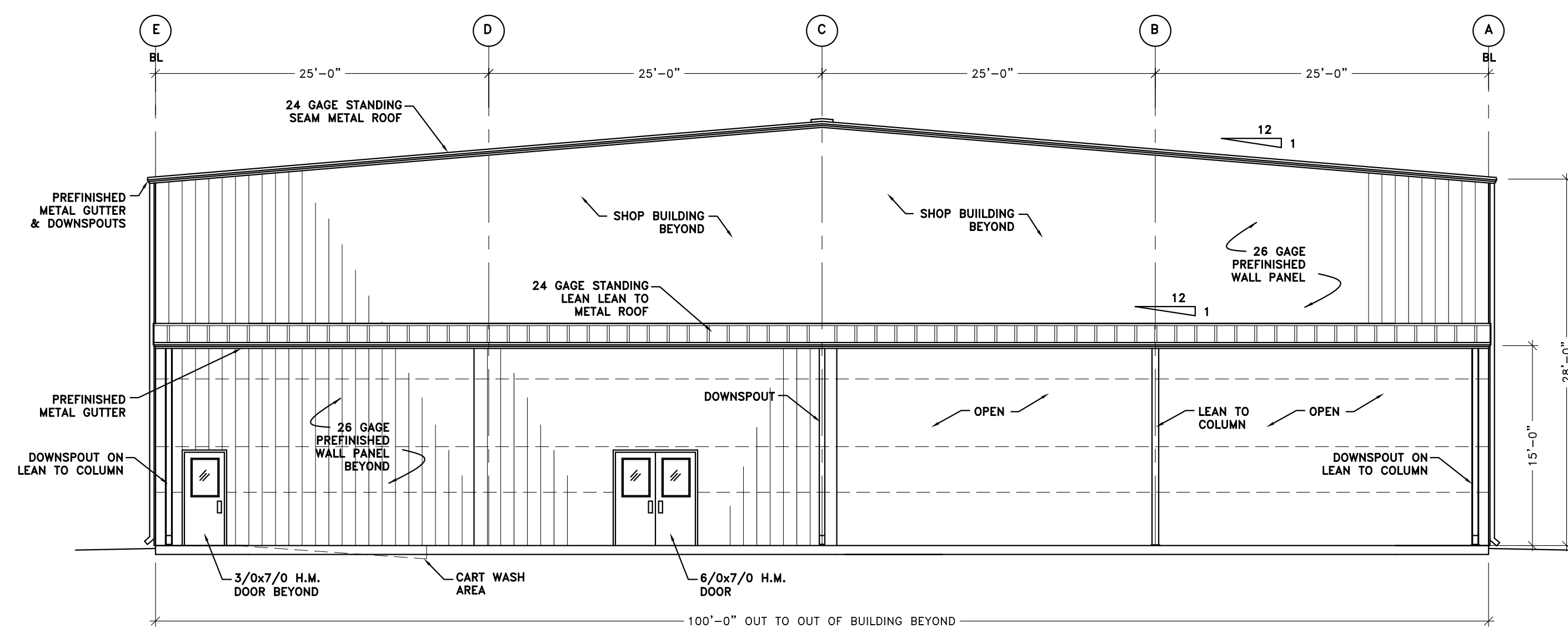
1 SOUTH ELEVATION
A2.0 SCALE: 1/8"=1'-0"



2 NORTH ELEVATION
A2.0 SCALE: 1/8"=1'-0"



3 EAST ELEVATION
A2.0 SCALE: 1/8"=1'-0"



4 WEST ELEVATION
A2.0 SCALE: 1/8"=1'-0"

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WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

EXTERIOR
ELEVATIONS

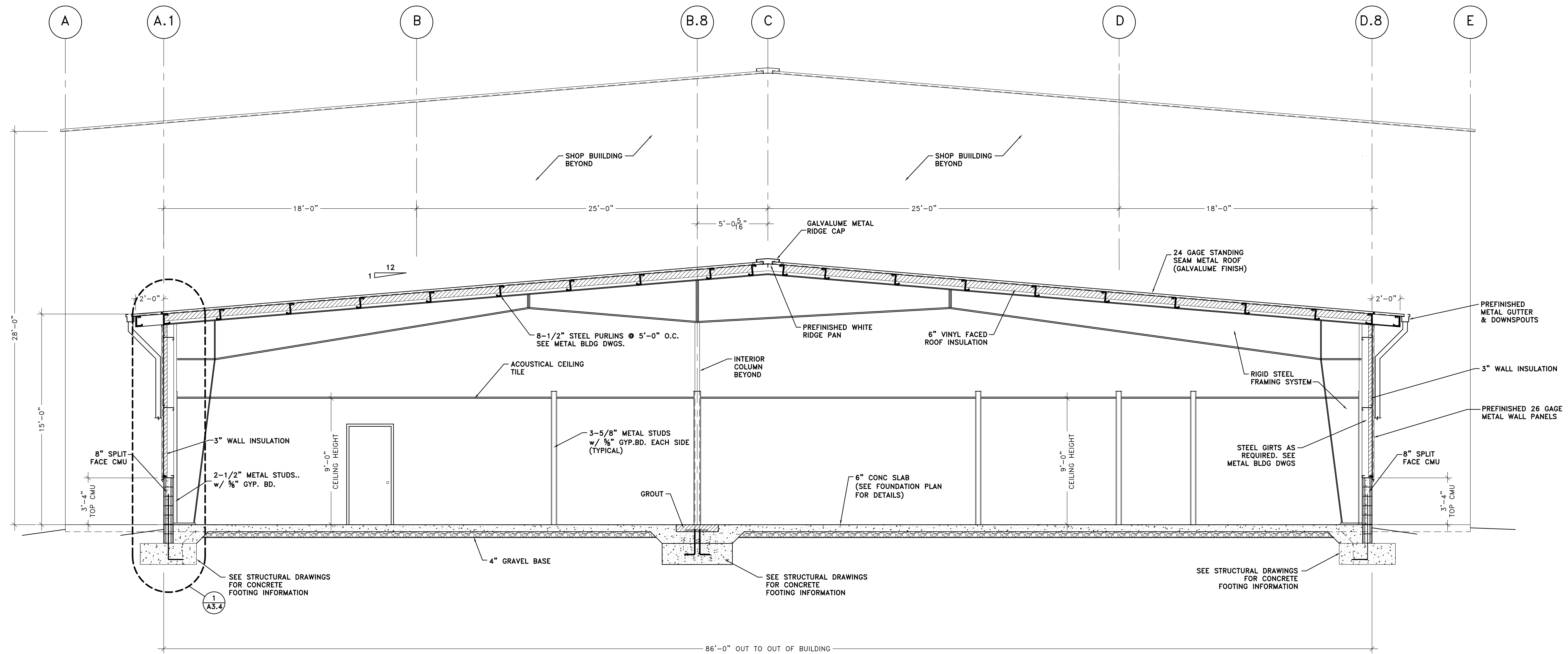
DRAWN BY:
KM
DRAWING NO.

JOB NO.
17-3550
DATE
11/07/17

REVISIONS

SHEET NO.

A2.0



1 CROSS SECTION THRU OFFICE AREA
A3.0 SCALE: 1/4" = 1'-0"

526 DISCOVERY PLACE
MABLETON, GA 30126
404-798-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

CROSS SECTION
THRU OFFICE

DRAWN BY:
KM
DRAWING NO.

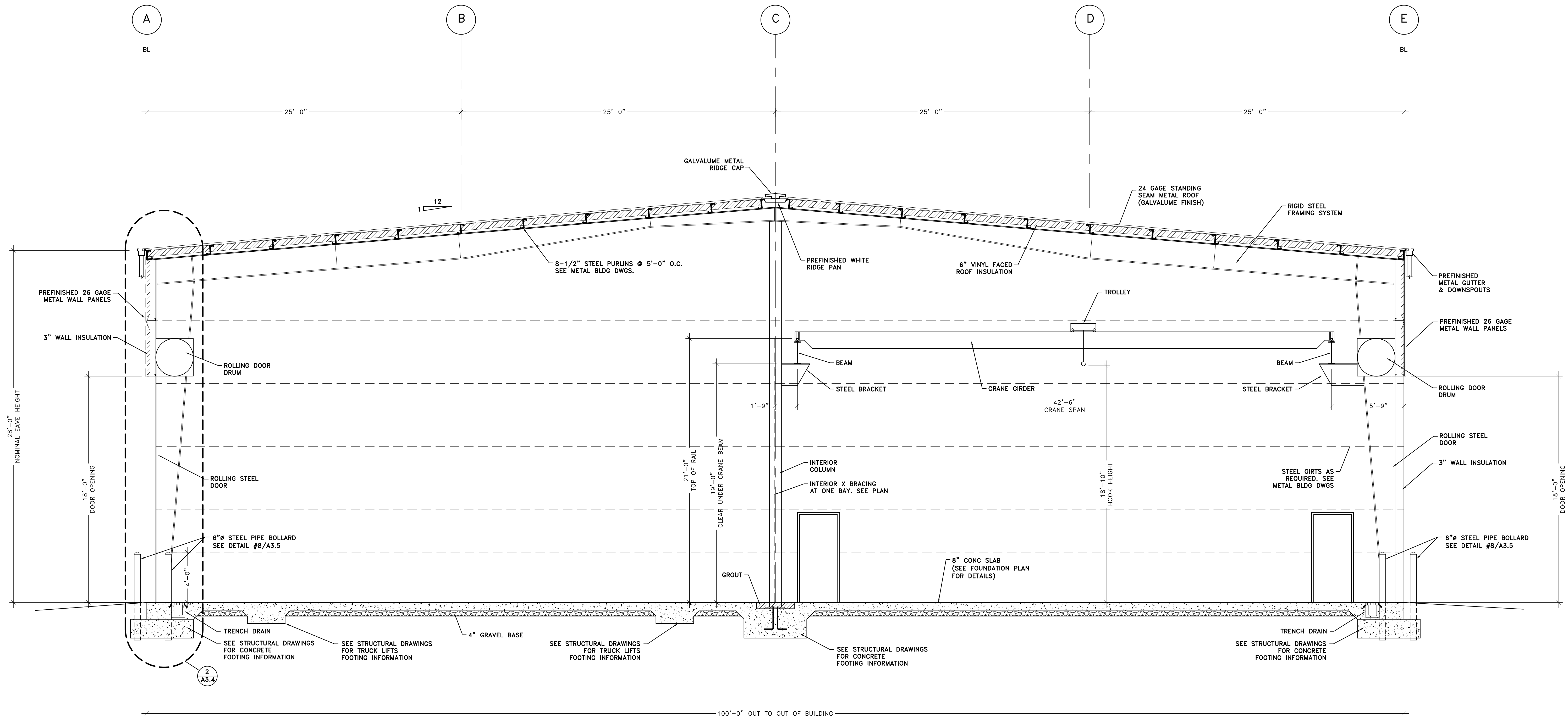
JOB NO.
17-3550

DATE
11/07/17

REVISIONS

SHEET NO.

A3.0



1 CROSS SECTION THRU SHOP
A3.1 SCALE: 1/4" = 1'-0"

626 DISCOVERY PLACE
MABLETON, GA 30126
404-798-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY
HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

CROSS
SECTION
THRU SHOP

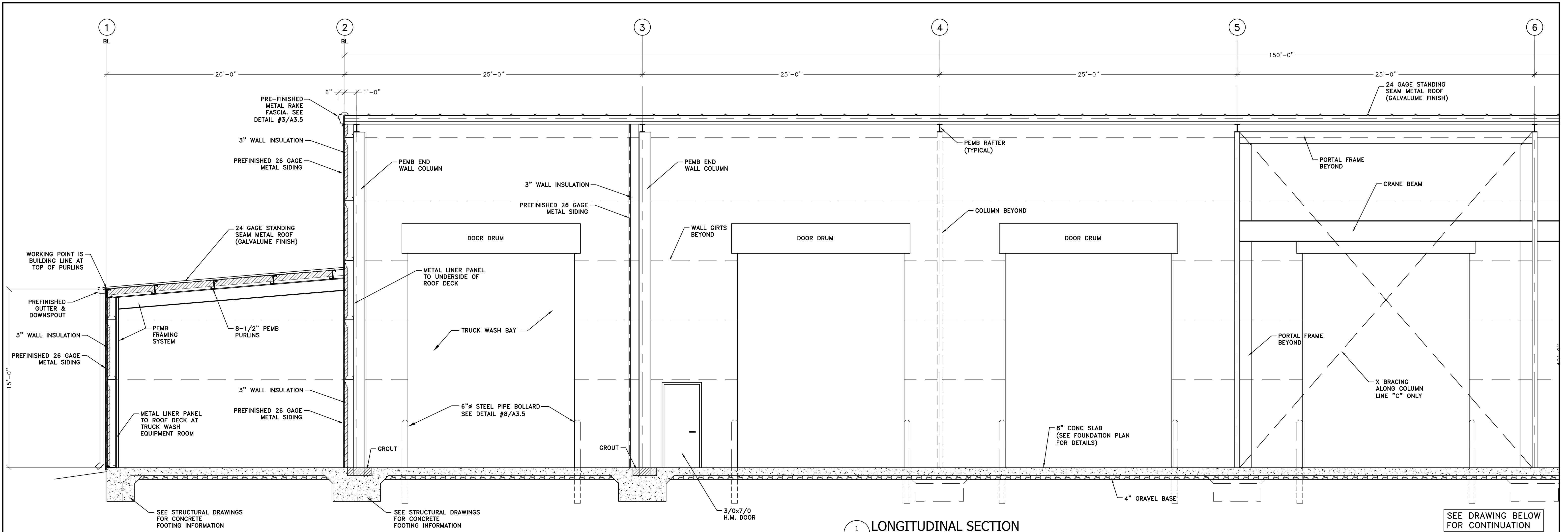
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KM
DRAWING NO.

JOB NO.
17-3550

DATE
11/07/17

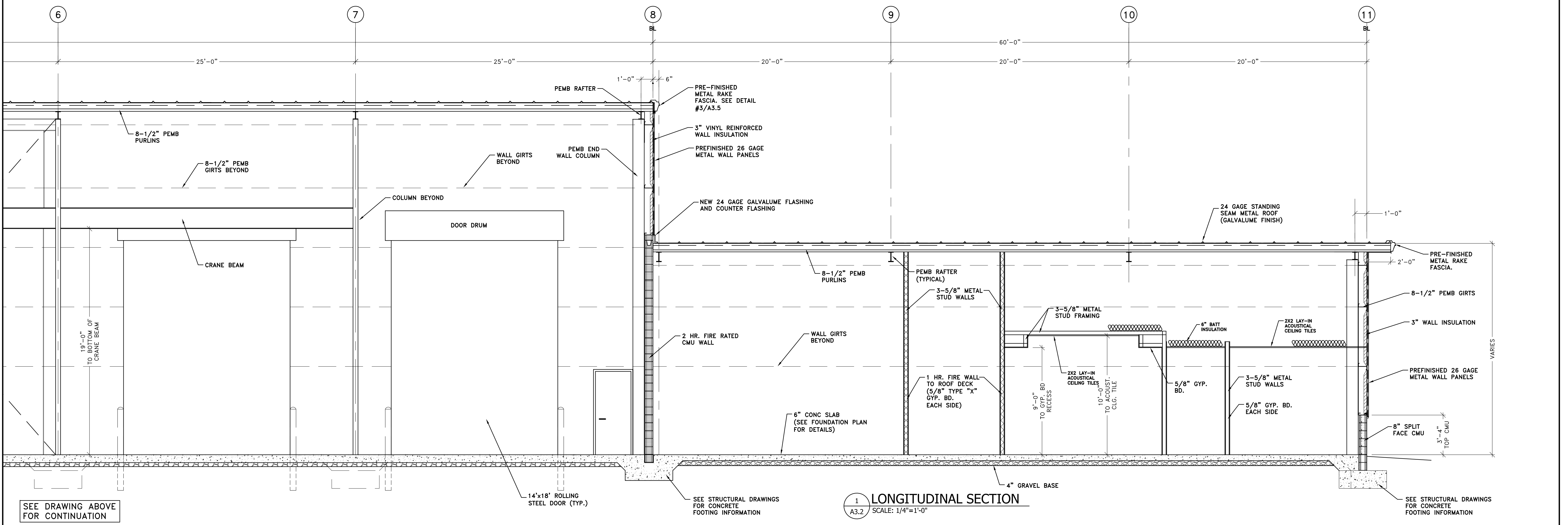
REVISIONS	

SHEET NO.
A3.1



1 LONGITUDINAL SECTION
A3.2 SCALE: 1/4"=1'-0"

SEE DRAWING BELOW
FOR CONTINUATION



1 LONGITUDINAL SECTION
A3.2 SCALE: 1/4"=1'-0"

SEE DRAWING ABOVE
FOR CONTINUATION

SEE STRUCTURAL DRAWINGS
FOR CONCRETE
FOOTING INFORMATION

626 DISCOVERY PLACE
MABLETON, GEORGIA 30158
404-799-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

LONGITUDINAL
SECTION

DRAWN BY:

KM

DRAWING NO.

JOB NO.

17-3550

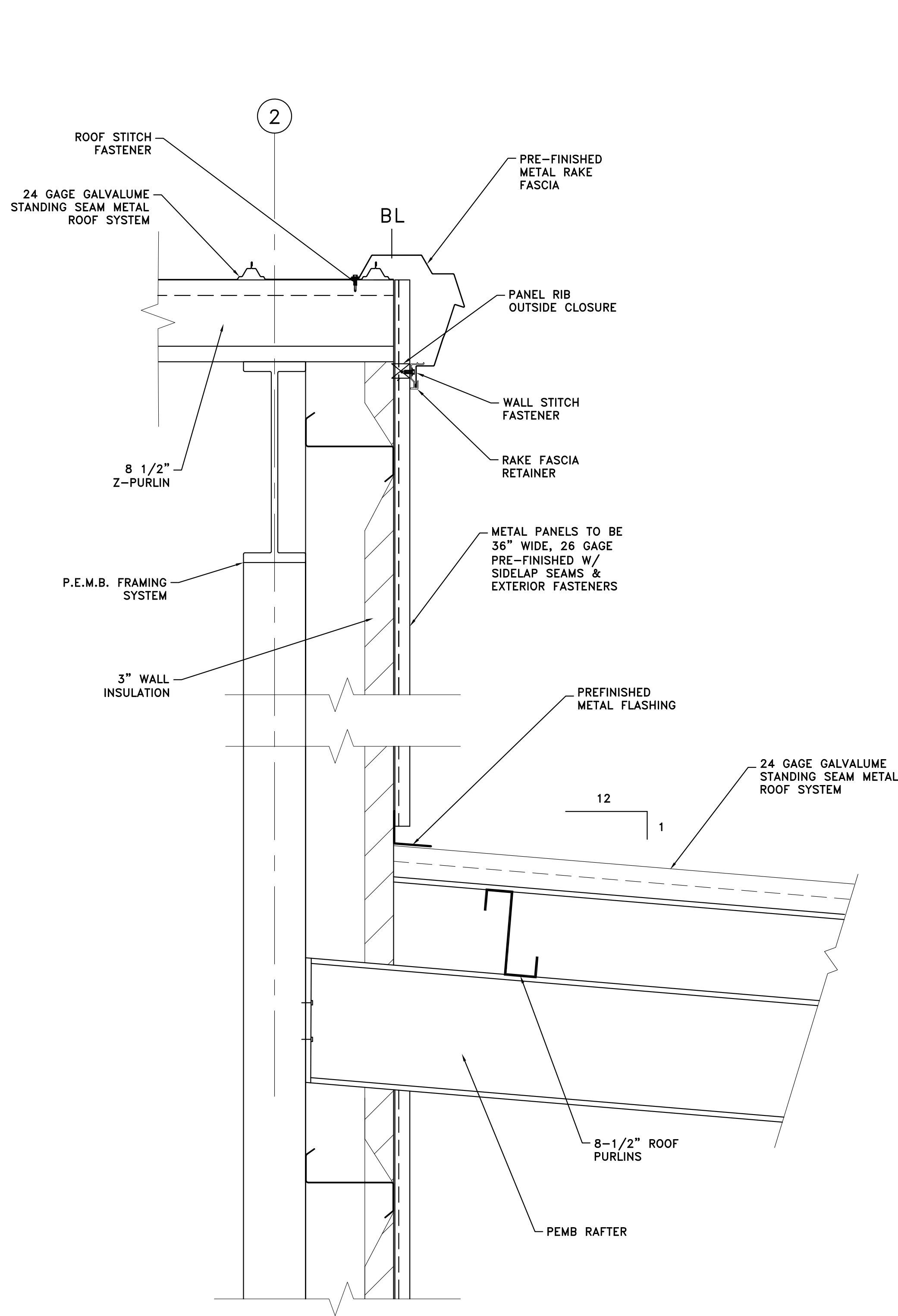
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11/07/17

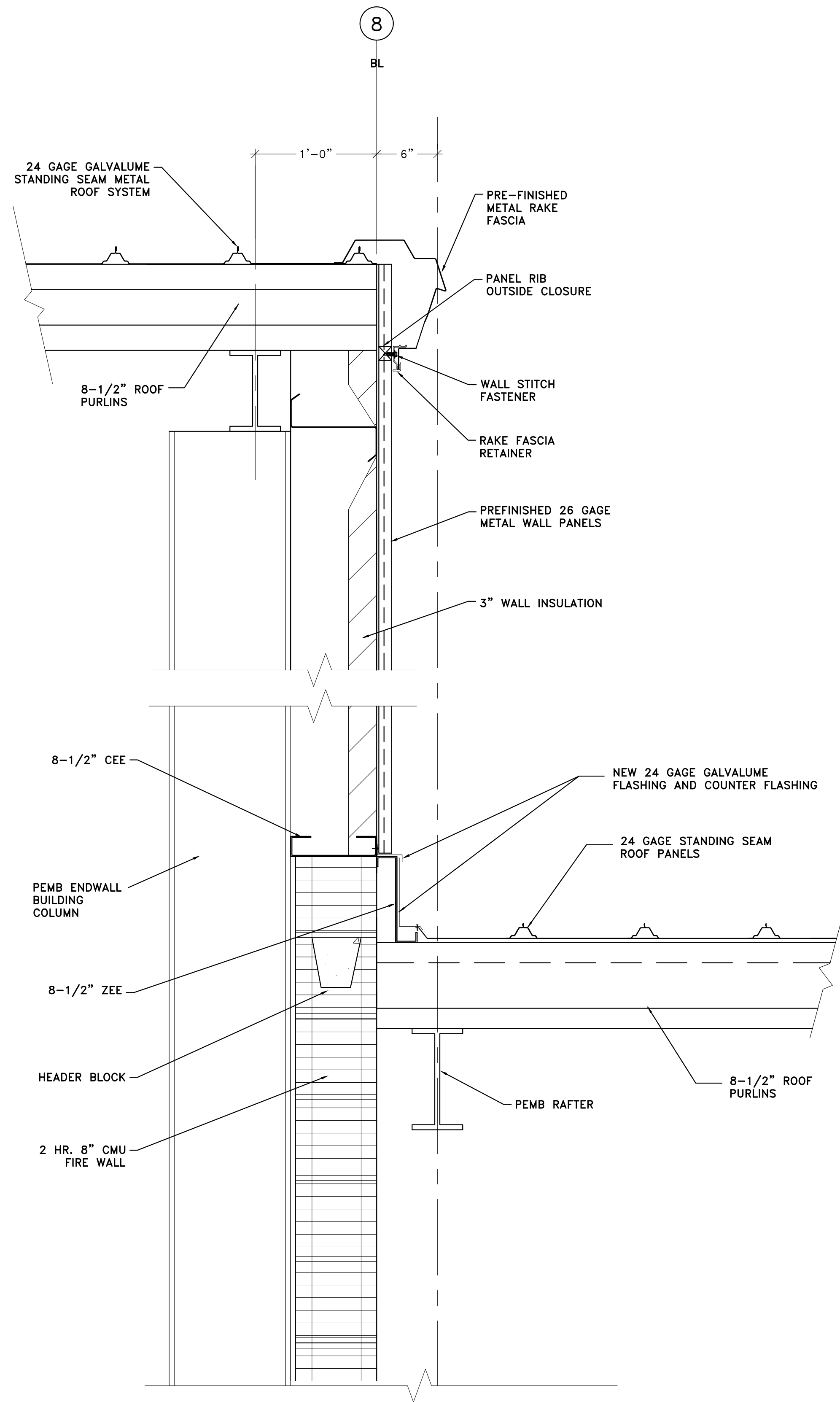
REVISIONS

SHEET NO.

A3.2



1 SECTION AT WALL TO ROOF FLASHING @ LEAN TO
A3.3 SCALE:1-1/2"=1'-0"



2 SECTION AT SHOP/OFFICE CONNECTION
A3.3 SCALE:1-1/2"=1'-0"

626 DISCOVERY PLACE
MADEIRA PARK, NC 28758
404-798-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY
HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

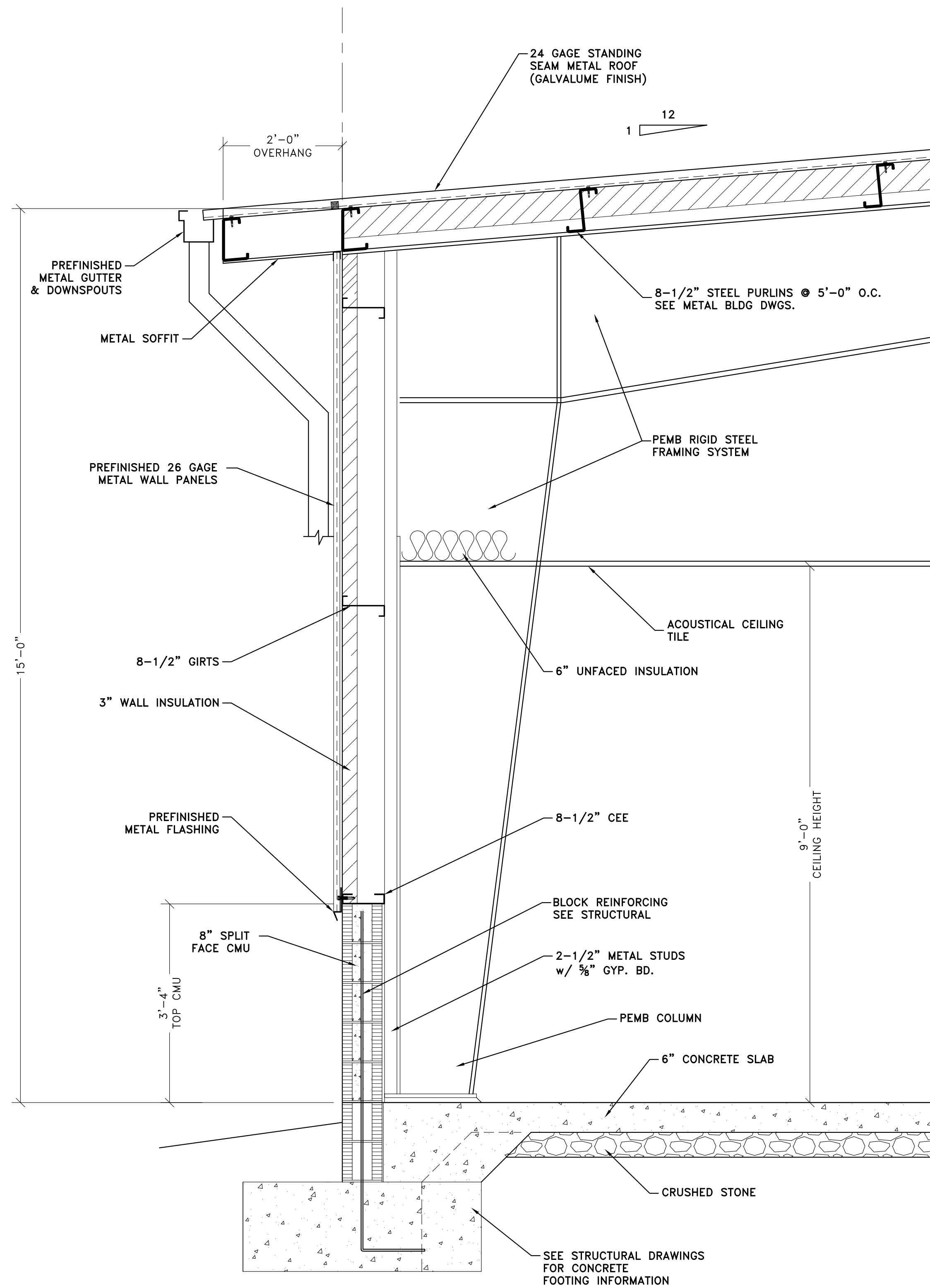
SECTIONS

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KM
DRAWING NO.

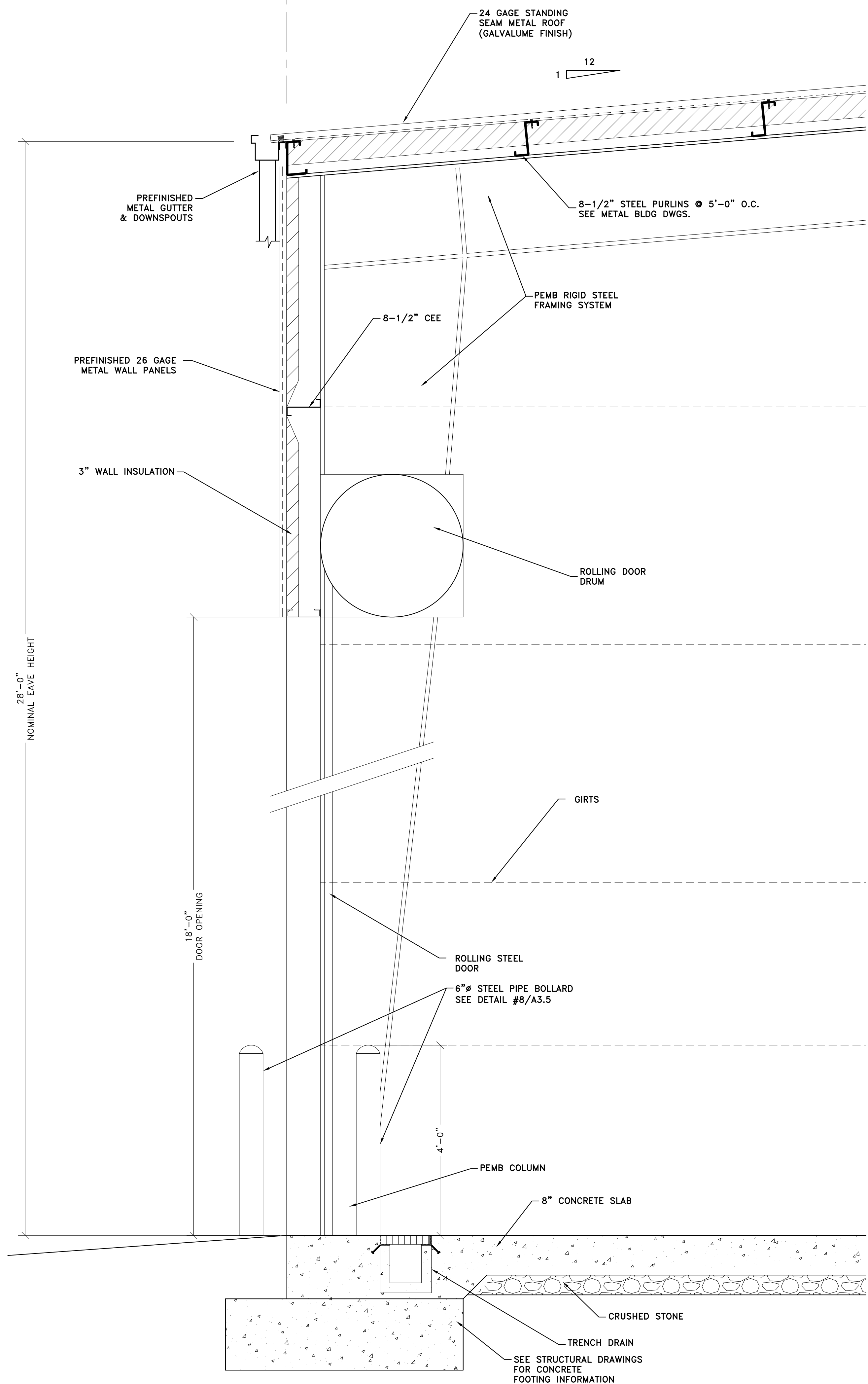
JOB NO.
17-3550
DATE
11/07/17

REVISIONS

SHEET NO.
A3.3



1 WALL SECTION AT OFFICE AREA
A3.4 SCALE: 3/4" = 1'-0"



2 WALL SECTION AT SHOP AREA
A3.4 SCALE: 3/4" = 1'-0"

626 DISCOVERY PLACE
MABLETON, GA 30126
404-798-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY

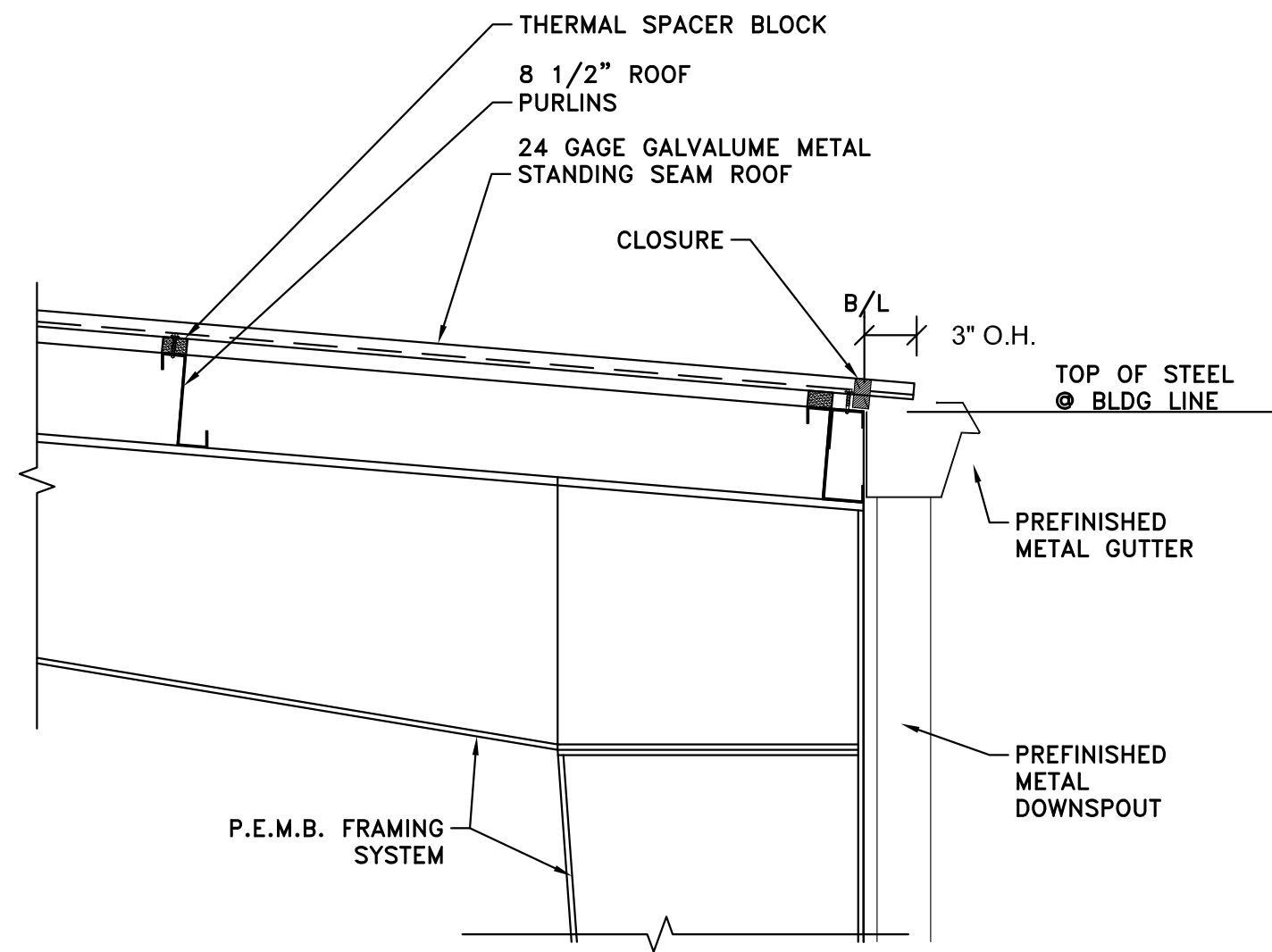
HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

WALL SECTIONS

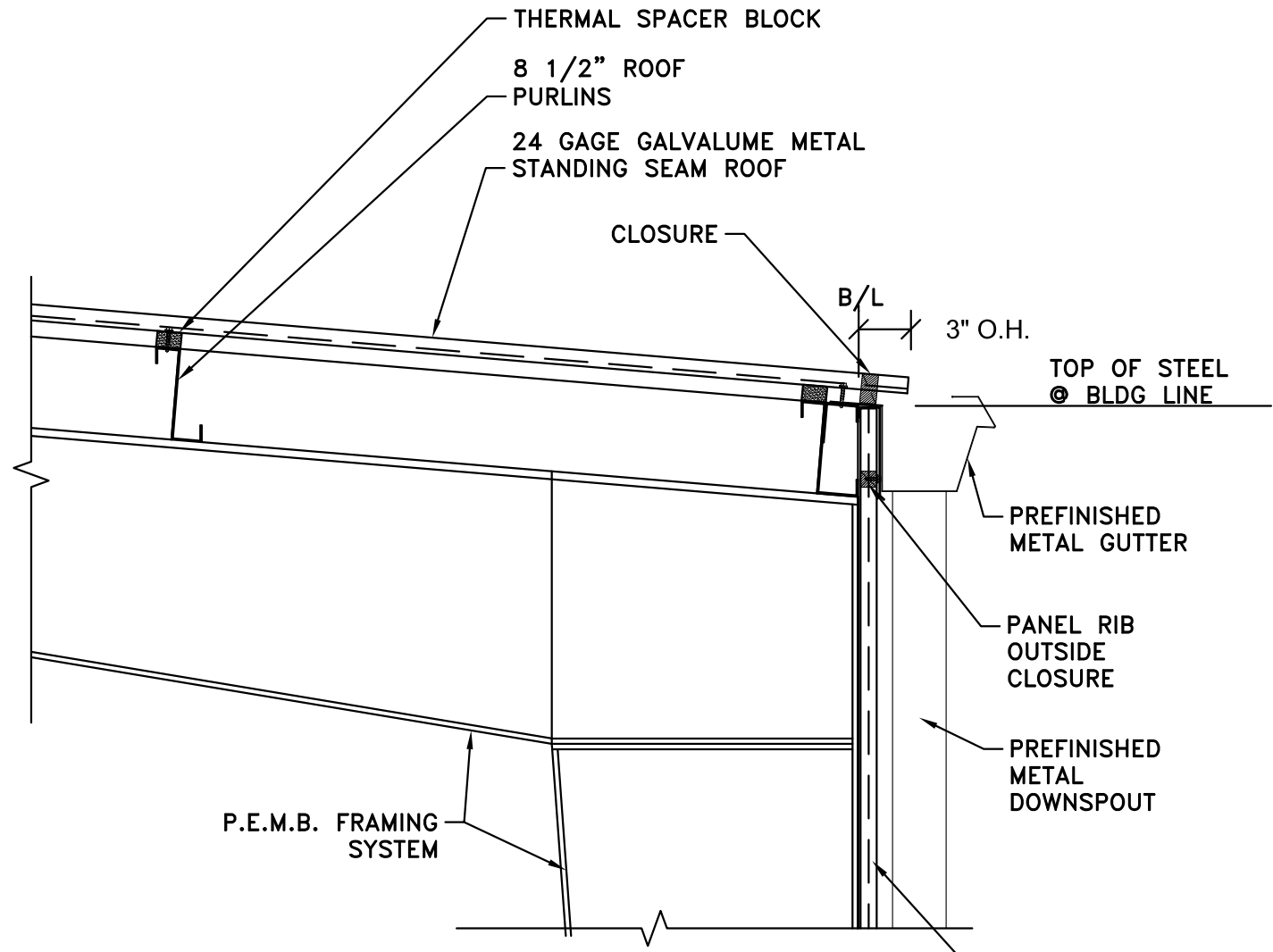
DRAWN BY:	KM
DRAWING NO.	
JOB NO.	17-3550
DATE	11/07/17
REVISIONS	

SHEET NO.

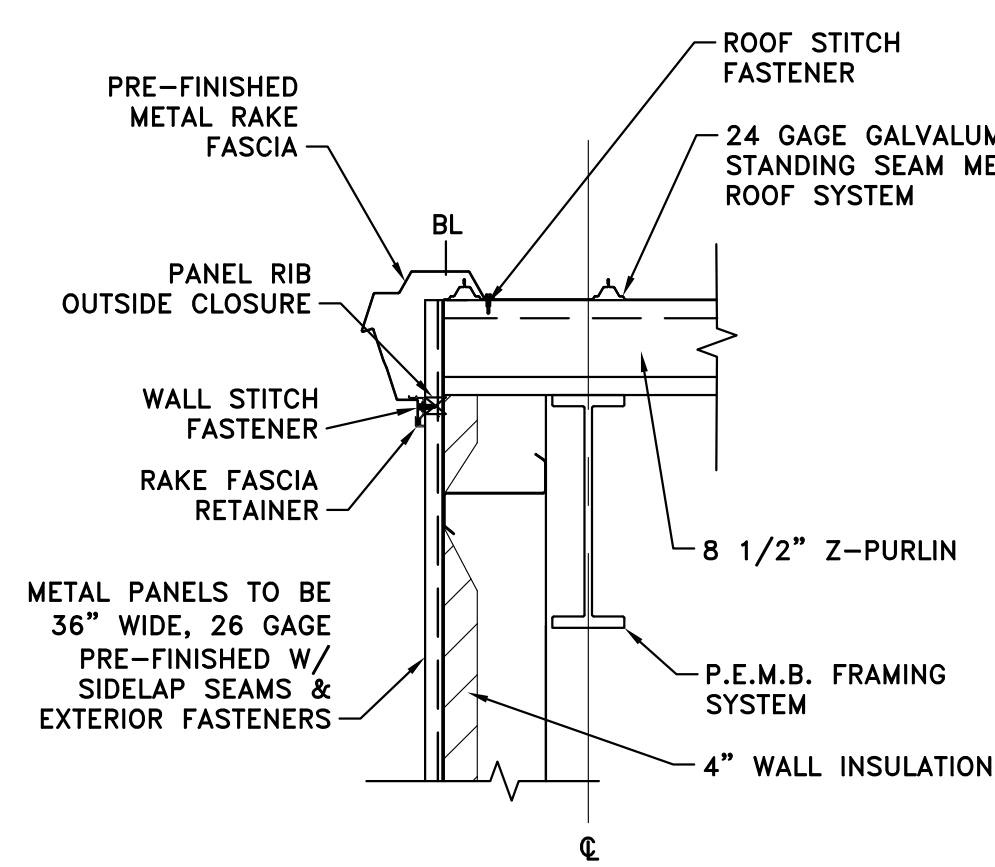
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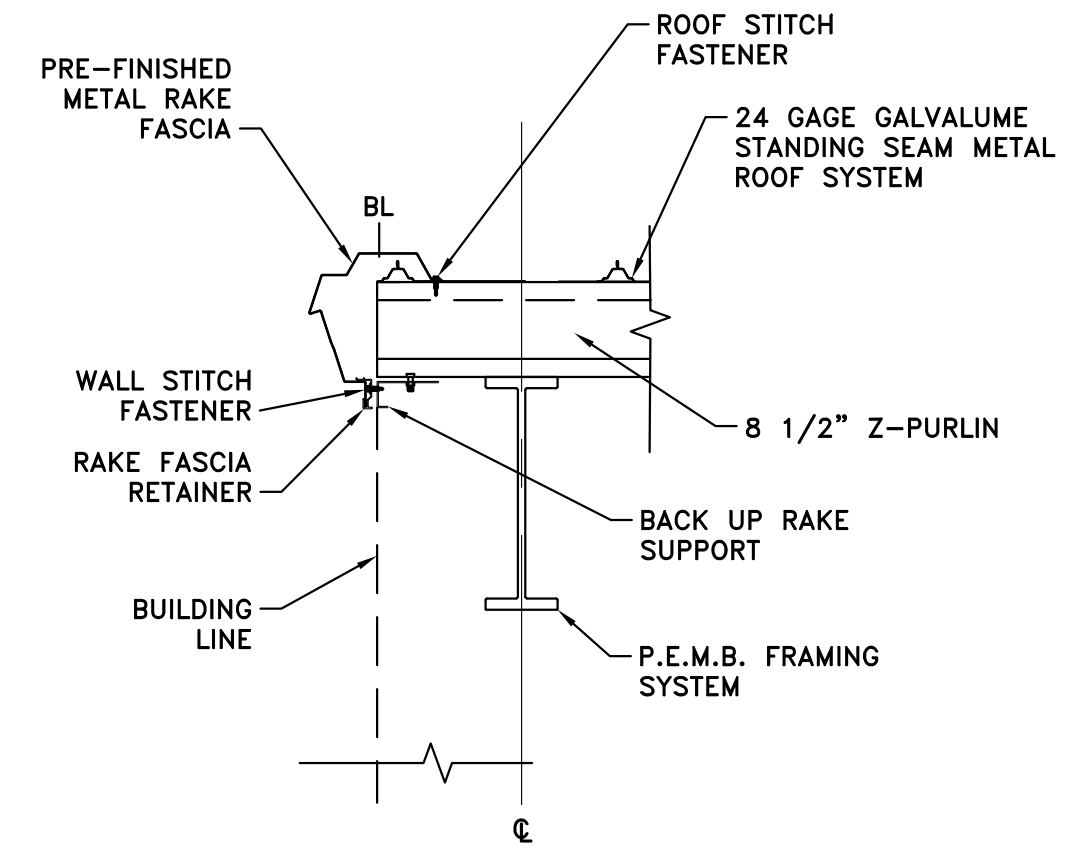
1 EAVE DETAIL @ LEAN TO
A3.5 SCALE: 3/4" = 1'-0"



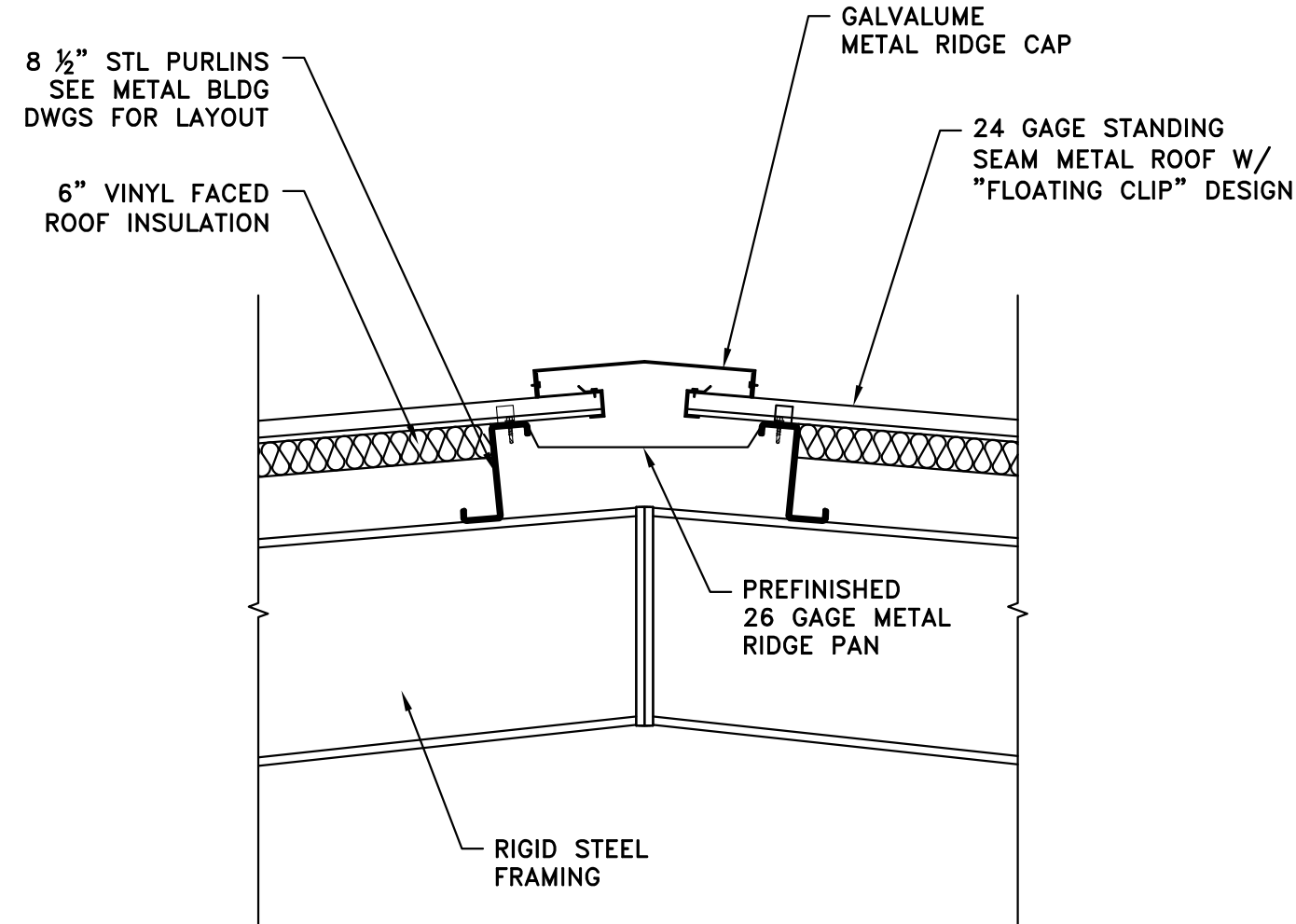
2 EAVE DETAIL
A3.5 SCALE: 3/4" = 1'-0"



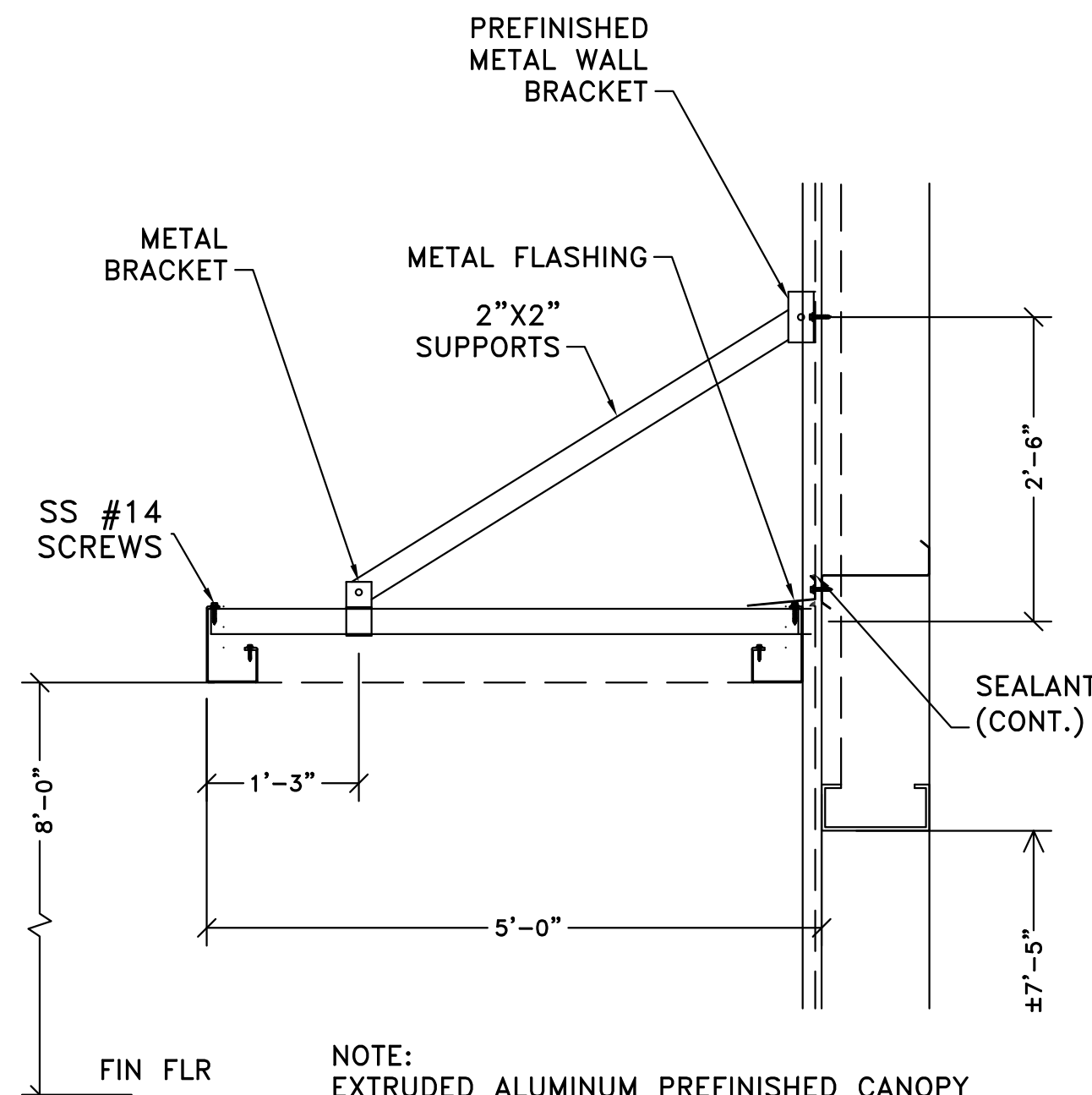
3 RAKE TRIM DETAIL
A3.5 SCALE: 3/4" = 1'-0"



4 RAKE TRIM DETAIL @ LEAN TO
A3.5 SCALE: 3/4" = 1'-0"

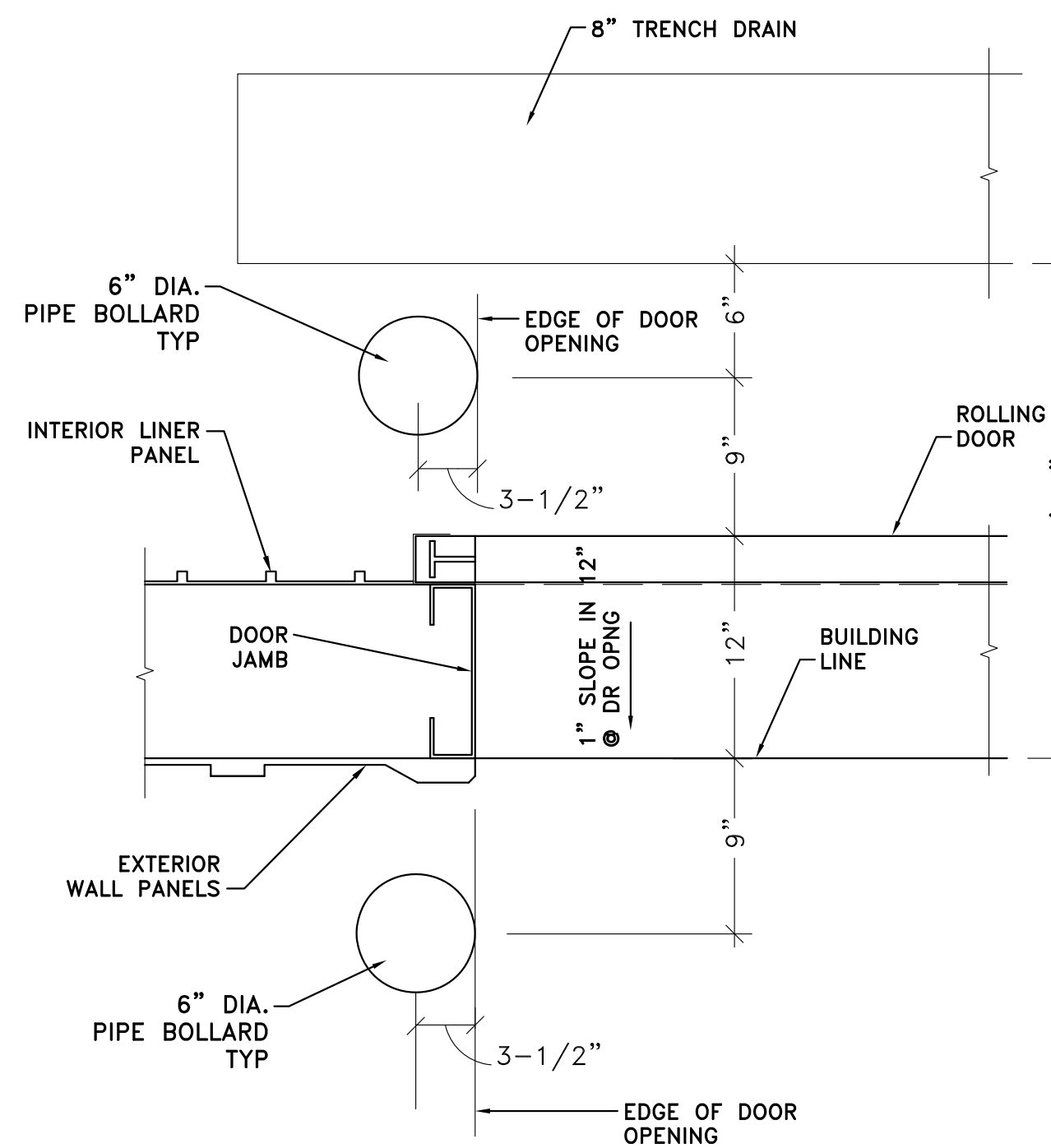


5 RIDGE CAP DETAIL
A3.5 SCALE: 3/4" = 1'-0"

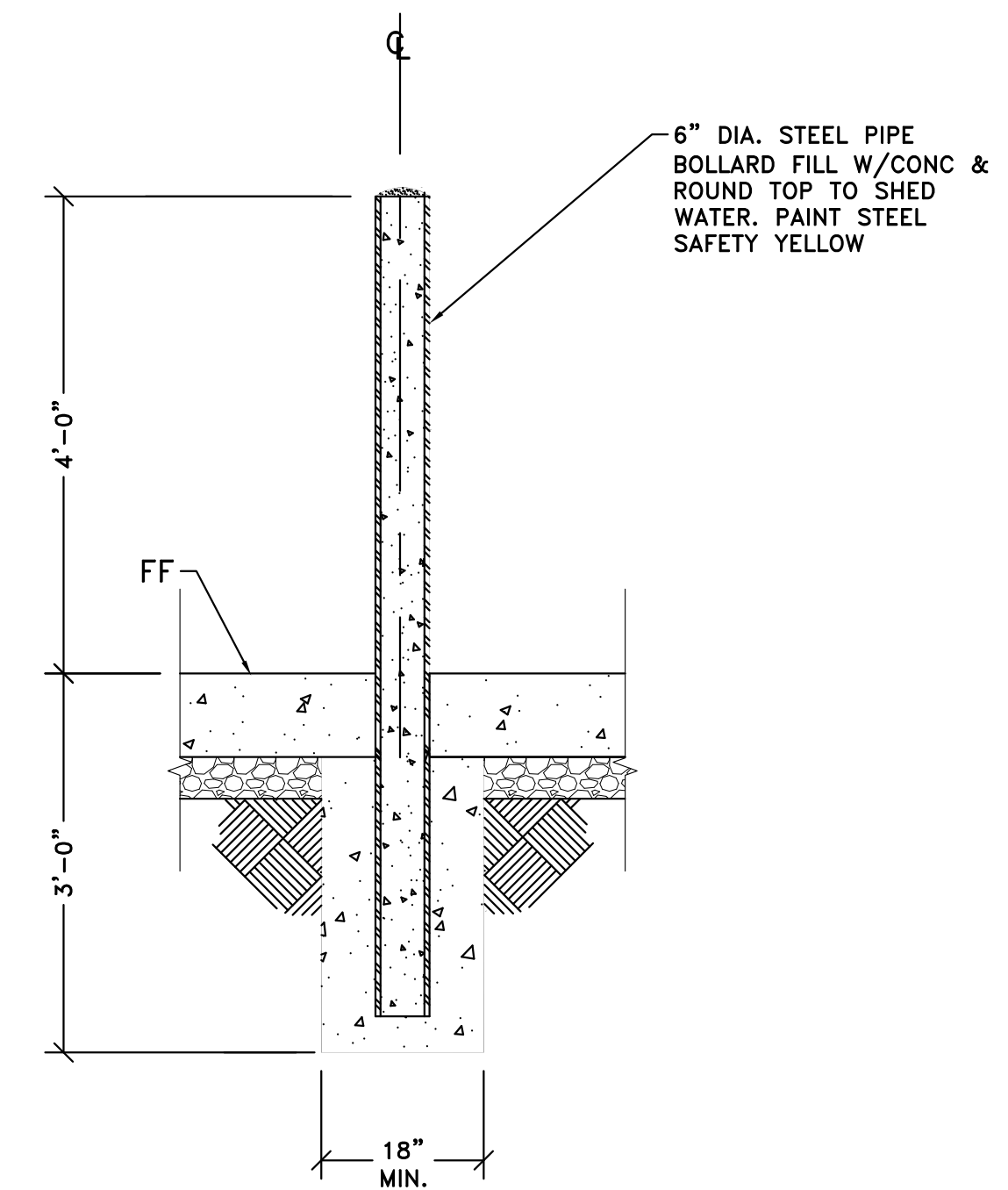


NOTE:
EXTRUDED ALUMINUM PREFINISHED CANOPY
WITH INTEGRAL GUTTER/FASCIA AND
ALUMINUM SUPPORT ARMS.

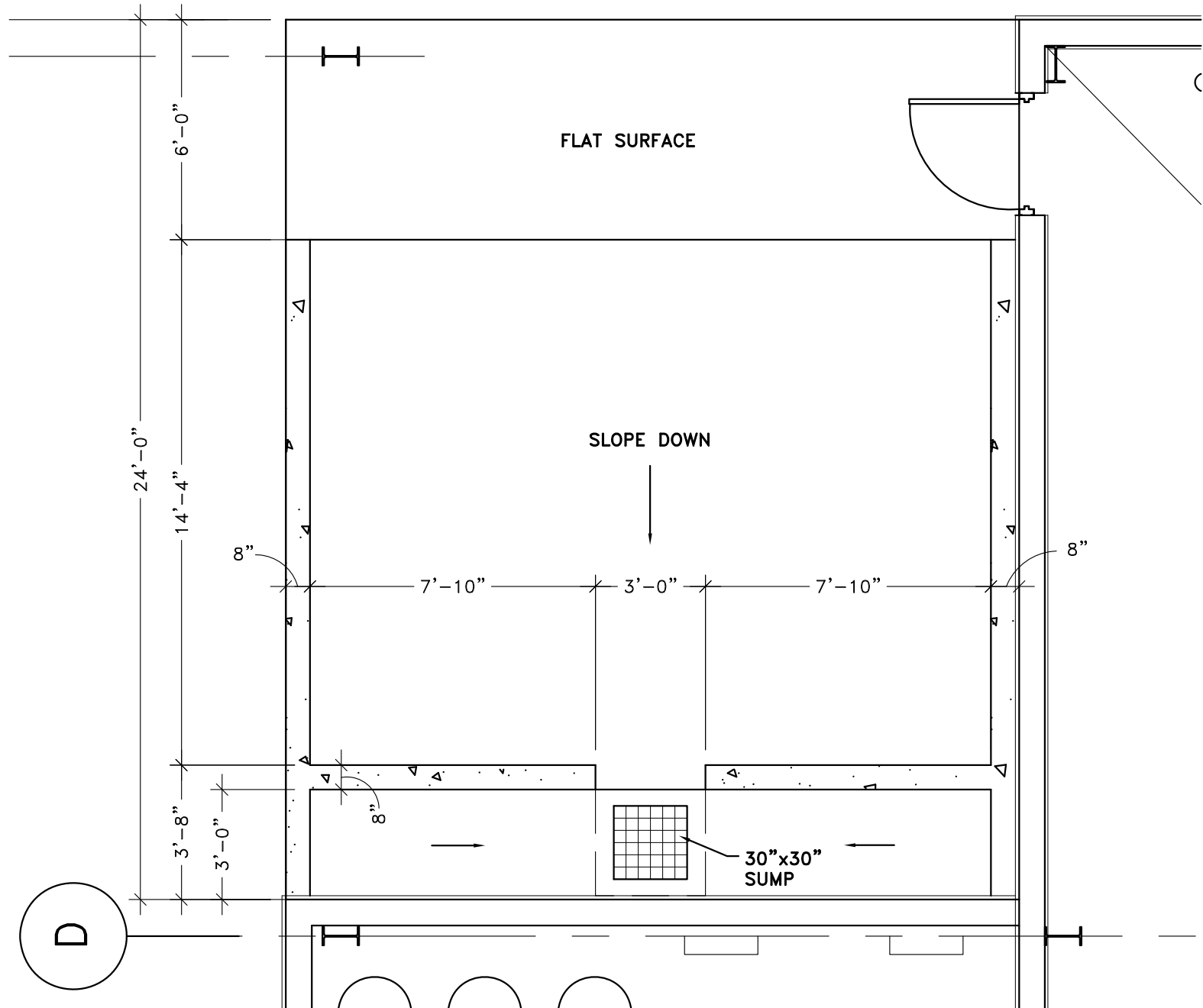
6 CANOPY DETAIL
A3.5 SCALE: 3/4" = 1'-0"



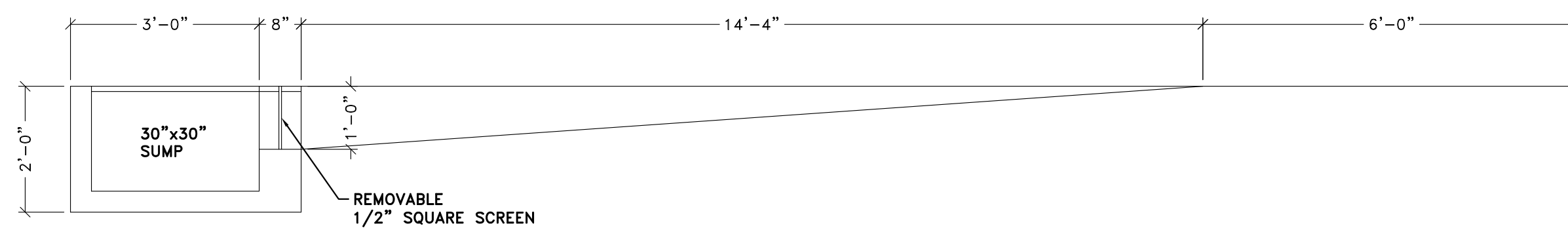
7 PIPE BOLLARD LAYOUT
A3.5 N.T.S.



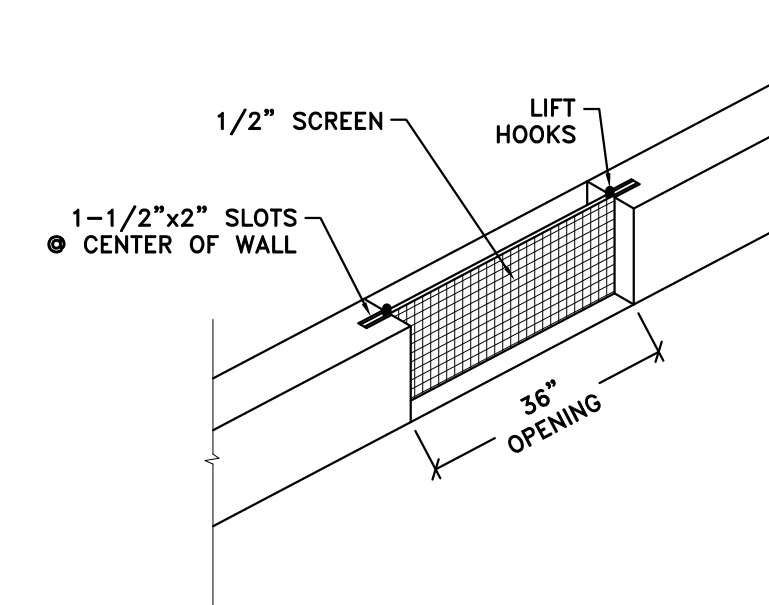
8 BOLLARD DETAIL
A3.5 N.T.S.



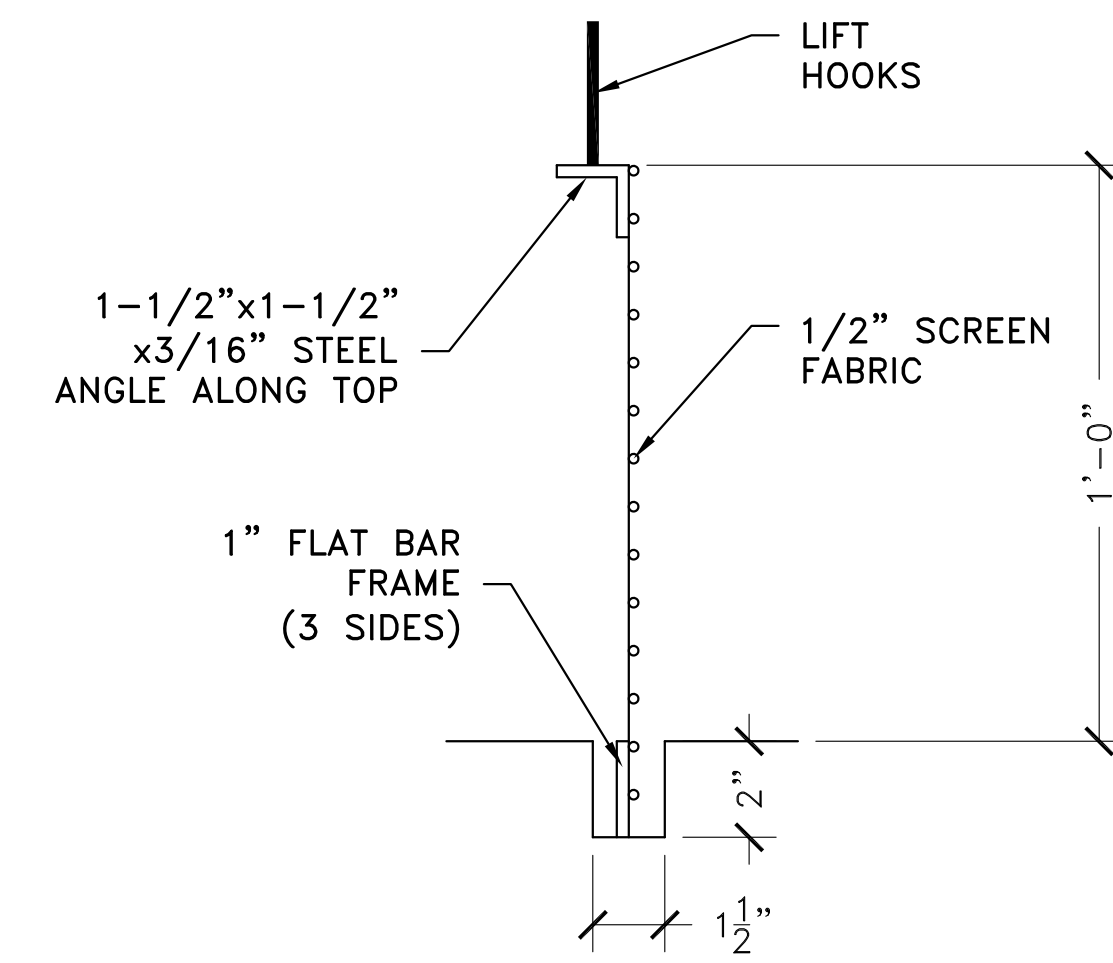
9 CART WASH SUMP LAYOUT
A3.5 SCALE: 1/4"=1'-0"



10 CART WASH SUMP SECTION
A3.5 SCALE: 1/2"=1'-0"



10 SCREEN DETAIL
A3.5 SCALE: 1/2"=1'-0"



11 SCREEN DETAIL
A3.5 SCALE: 1/2"=1'-0"

526 DISCOVERY PLACE
MABLETON, GA 30158
404-799-0101

ABUCK
DESIGNERS — BUILDERS

WASTE MANAGEMENT
HAULING FACILITY

HIGHWAY 17, HARDEEVILLE, SOUTH CAROLINA

DETAILS

DRAWN BY:

KM

DRAWING NO.

JOB NO.

17-3550

DATE

11/07/17

REVISIONS

SHEET NO.

A3.5

GENERAL MECHANICAL NOTES:

1. DO NOT SCALE DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS AND CEILING DEVICES. PROJECT IS A NEW STRUCTURE. ROUTE ALL PIPING AND CONDUIT AS INDICATED BUT DO NOT TO DEFACE EXTERIOR OF BUILDING, VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
2. DAMAGE TO STRUCTURE BEYOND CUTTING AND PATCHING FOR WORK INDICATED WILL BE REPAIRED TO EXISTING CONDITIONS AT CONTRACTOR'S EXPENSE.
3. COORDINATE ALL PIPING AND DUCT WORK LOCATIONS WITH OTHER DIVISIONS AND EXISTING CONDITIONS.
4. A 10" CLEARANCE SHALL BE MAINTAINED BETWEEN ALL EXHAUST OUTLETS AND AIR INTAKES.
5. CONTRACTOR SHALL CONFORM TO NATIONAL AND LOCAL CODES (BUILDING, MECHANICAL, PLUMBING, AND GAS) AS APPLIES TO PROJECT.
6. THERMOSTATS SHALL BE PROGRAMMABLE PER SECTION 6.4.3 OF ANSII ASHRAE/IESNA STANDARD 90.1-2004
7. GROUND LEVEL ONLY CONDENSATE TO BE ROUTED DIRECTLY TO EXTERIOR AND TERMINATE ABOVE A 12"x12"x30" GRAVEL PIT. ALL SYSTEMS ABOVE GROUND LEVEL SHALL BE TERMINATED IN A FUNNEL DRAIN PIPED DIRECTLY TO THE SANITARY SYSTEM BELOW GROUND LEVEL. TERMINATE IN A P-TRAP WITH TRAP PRIMER.

HVAC SYMBOL LEGEND

	CEILING DIFFUSER
	SLOT DIFFUSER
	CEILING RETURN GRILLE
	CEILING EXHAUST
	AIR TRANSFER GRILLE
	FIRE DAMPER
	MANUAL DAMPER
	SIDEWALL EXHAUST GRILLE
	DUCT SMOKE DETECTOR
	THERMOSTAT
	CUBIC FEET PER MINUTE
	OUTSIDE AIR
	RETURN AIR
	SUPPLY AIR
	EXHAUST FAN GRILL
	ABOVE CEILING
	ACCESS DOOR
	FLEX DUCT
	SHEETMETAL DUCT

GAS FURNACES WITH AC UNIT																			
MARK	BLOWER DATA				COOLING DATA			HEATING DATA			ELECTRICAL DATA						MODEL		
	TOTAL CFM	D.A. CFM	EXT SP	HP	TOTAL CAPACITY BTU/HR	SENSIBLE BTU/HR	SEER	INPUT CAPACITY BTU/HR	OUTPUT CAPACITY BTU/HR	% AFUE	FURNACE			COMPRESSOR					
											RLA	MCA	MDCP	RLA	MCA	MDCP			
FCU-1, CU-1	1600	120	0.4	3/4	46,000	33,800	15.0	98,000	95,000	92	9.3	13	20/1	20.9	26	45/2	RHEEM R92TA10052IM	RHEEM RA1548AJ	
FCU-2, CU-2	2000	120	0.4	3/4	57,500	41,200	15.0	112,000	108,000	92	9.3	13	20/1	25.1	32	60/2	RHEEM R92TA115524M	RHEEM RA1560AJ	
FCU-3, CU-3	2000	120	0.4	3/4	57,500	41,200	15.0	112,000	108,000	92	9.3	13	20/1	25.1	32	60/2	RHEEM R92TA115524M	RHEEM RA1560AJ	

EXHAUST FANS									
MARK	CFM	S.P.	RPM	OUTLET	AMPS	HP	MODEL	DESCRIPTION	NOTE
EF-1	15,826	0.25	617	46"	-	5	GREENHECK CUBE 360	ROOF EXHAUST	1,2,3,4,5,6
EF-2	15,826	0.25	617	46"	-	5	GREENHECK CUBE 360	ROOF EXHAUST	1,2,3,4,5,6
EF-3	80	0.1	675	4"Ø	0.5	-	GREENHECK SP-B80	RESTROOM EXHAUST	
EF-4	80	0.1	675	4"Ø	0.5	-	GREENHECK SP-B80	RESTROOM EXHAUST	
EF-5	80	0.1	675	4"Ø	0.5	-	GREENHECK SP-B80	BREAKROOM EXHAUST	
EF-6	9127	0.25	665	35"	-	2	GREENHECK CUBE 300	SIDEWALL EXHAUST	3,4,5,6

1. ROOF EXHAUST FANS EF-1 AND EF-2 TO BE CONTROLLED BY GAS DETECTION DEVICE. INTERLOCK BOTH FANS WITH LV-1, LV-2 AND 2. GARAGE DOORS AS INDICATED.
2. PROVIDE WITH ROOF CURB, BIRD SCREEN AND DISCONNECT SWITCH
3. PROVIDE NON-SPARKING COMPONENTS
4. PROVIDE EXPLOSION PROOF MOTOR
5. PROVIDE DISCONNECT LISTED FOR CLASS 1, DIV 2
6. PROVIDE WITH GRAVITY BACKDRAFT DAMPERS

ELECTRONIC AUTOMATED LOUVERS						
MARK	SIZE	FREE AREA	VOLTS	DESCRIPTION	MANUFACTURER	MODEL
LV-1	36"x60"	8.25	120V	NORMALLY CLOSED	GREENHECK	EAD-635
LV-2	36"x60"	8.25	120V	NORMALLY CLOSED	GREENHECK	EAD-635
LV-3	42"x54"	8.73	120V	NORMALLY CLOSED	GREENHECK	EAD-635

1. LOUVERS LV-1, LV-2 ARE FOR PRESSURE RELIEF ONLY. GARAGE DOOR TO PROVIDE ADDITION FREE AREA ON FAN ACTIVATION.
2. LOCATE SILL 12" AFF.
3. INTERLOCK WITH EF-1, EF-2
4. INTERLOCK WITH EF-6

MINI-SPLIT A/C UNIT											
MARK	TONS	SEER	OA	CFM	FULL LOAD AMPS	TOTAL COOLING CAPACITY (BTU/H)	SENSIBLE COOLING CAPACITY (BTU/H)	ELECTRICAL	MODEL		
								MCA	MDCP	INDOOR UNIT	OUTDOOR UNIT
MS-1A	0.75	24.6	-	200	0.45	9,000	6480	8	15/2	DAIKIN	DAIKIN
MS-1B										DAIKIN	DAIKIN

ELECTRIC RADIANT HEATERS			
MARK	KW	VOLTAGE	BREAKER
UH-1	6.0	480V, 1Ø	20/2
			FOSTORIA CH-648-30

EXHAUST RECOVERY VENTILATOR						
MARK	CFM	S.P.	RECOVERY	OUTLET	AMPS	VOLTS
ERV	600	0.6	65%	10"Ø	3.6	240V, 1Ø
						DAIKIN LGH-F600RX5-E

METHANE EXHAUST SYSTEM CALCULATION

VOLUME = AREA X AVG CEILING HEIGHT
= 12260 FT² X 30 FT
= 367,800 FT³

EXHAUST = (VOLUME X AIR CHANGE/HOUR)/60
= (367,800 X 5)/60
= 30,650 CFM

2 FANS @ 15,325 CFM EA REQUIRED

GENERAL EXHAUST CALCULATION

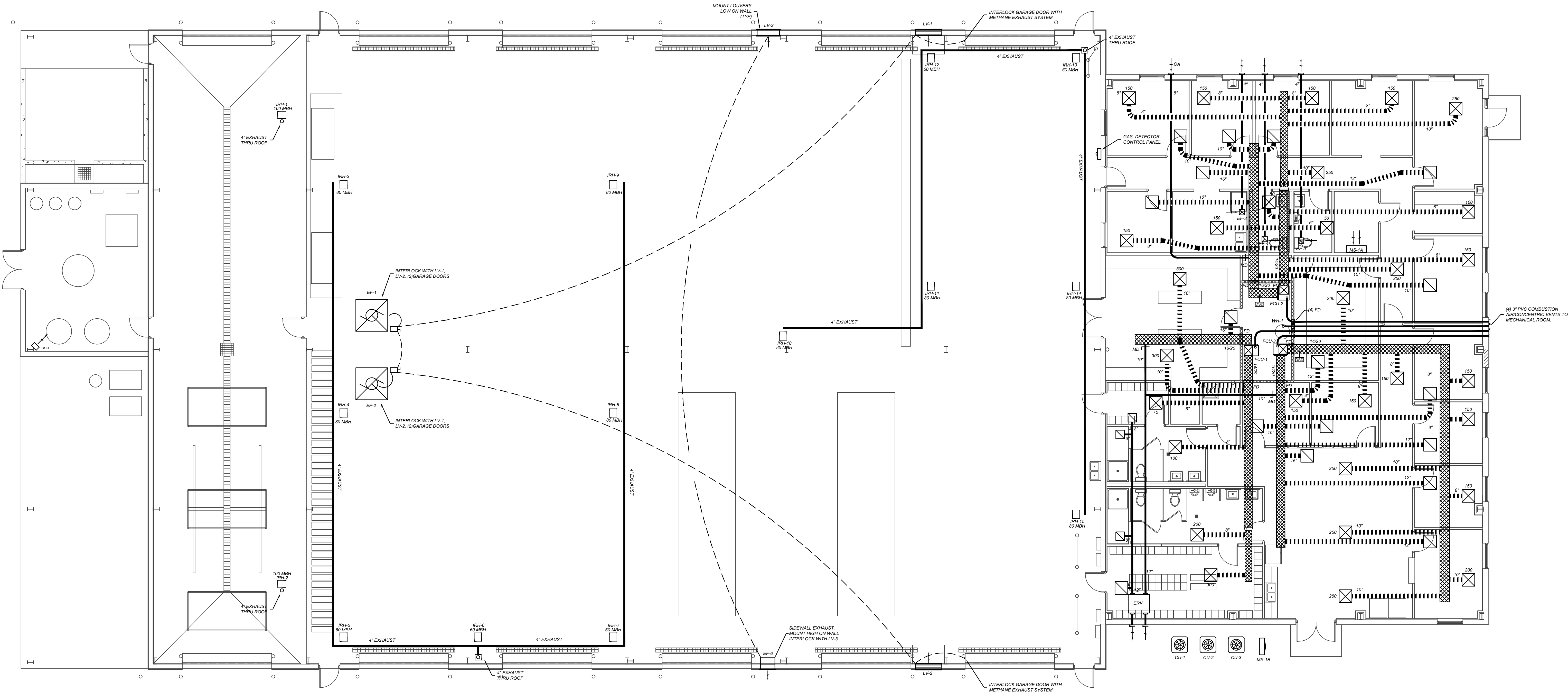
CFM = AREA X 0.75
= 12260 X 0.75
= 9195 CFM

LOUVER/INLET AREA REQUIREMENT

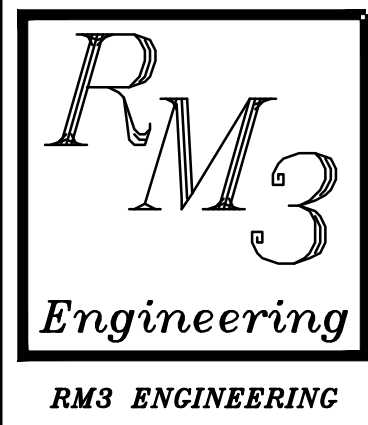
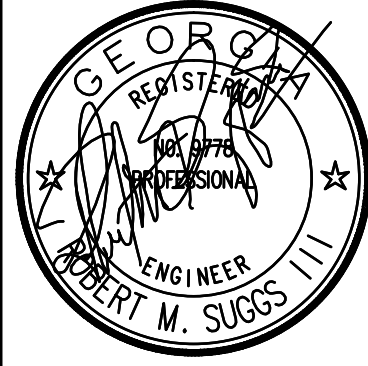
1000 FPM FACE VELOCITY

METHANE EXHAUST FREE AREA = 30650/1000 = 30.6 SF

GENERAL EXHAUST FREE AREA = 9185/1000 = 9.1 SF



1
M1 HVAC PLAN
1/4"=1"



HVAC PLAN

WASTE MANAGEMENT
HAULING FACILITY
HIGHWAY 17
HARDEEVILLE, SC

NO.	REVISIONS

DATE: 11/1/2017
PROJECT No. 3E17-068

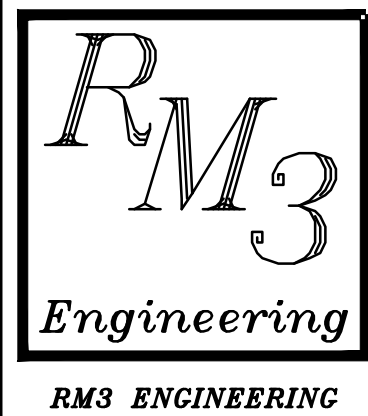
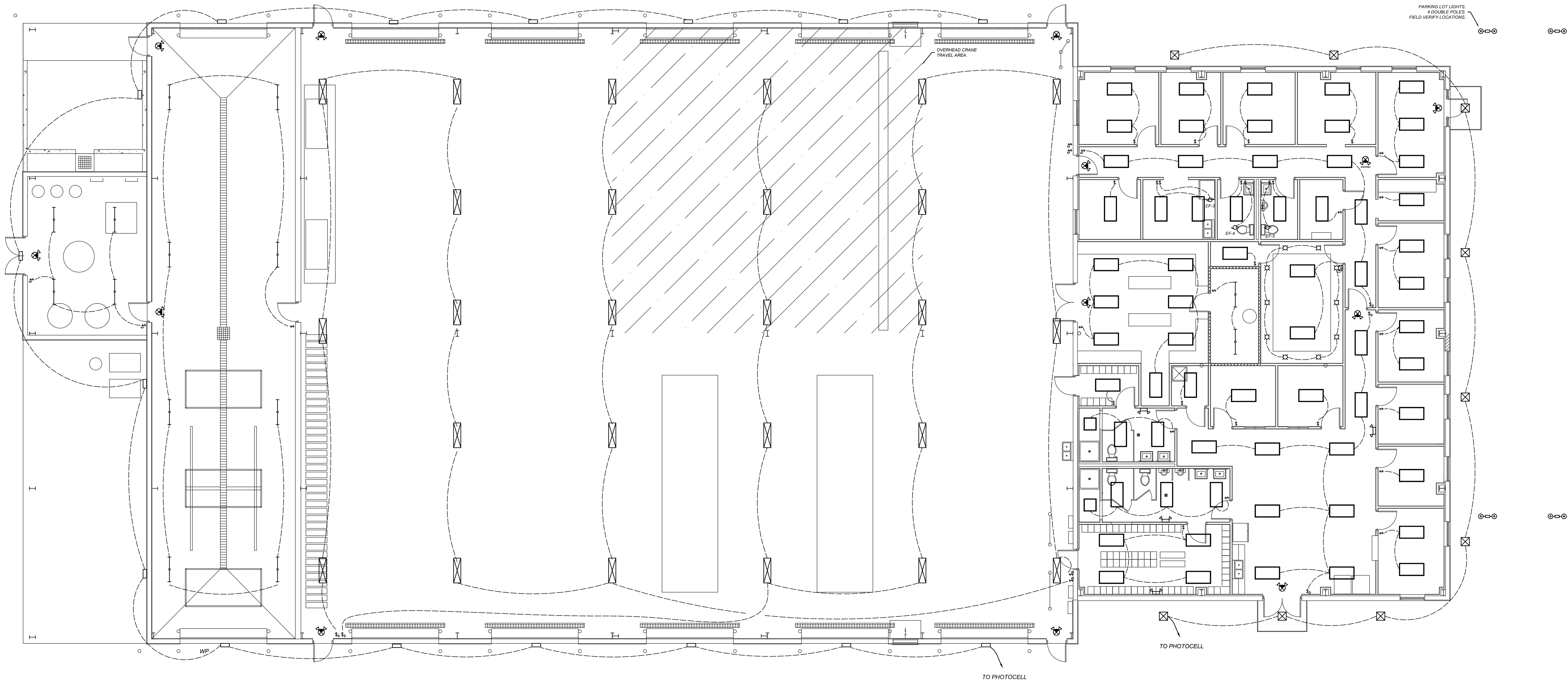
SHEET NO.

M1

1. DO NOT SCALE DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF DOORS, WINDOWS AND CEILING DEVICES. PROJECT IS A NEW STRUCTURE. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
2. DAMAGE TO STRUCTURE BEYOND CUTTING AND PATCHING FOR WORK INDICATED WILL BE REPAIRED TO EXISTING CONDITION AT CONTRACTORS EXPENSE
3. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE IN FORCE AT TIME OF BID AND ALL GOVERNING LOCAL CODES OR ORDINANCES.
4. ALL MATERIALS SHALL BE NEW AND SHALL BE UNDERWRITER'S LABORATORIES APPROVED.
5. COORDINATE ALL CIRCUITING REQUIREMENTS WITH OTHER DISCIPLINES. REVIEW ALL DIVISIONS AND SECTIONS FOR ADDITIONAL REQUIREMENTS OR COORDINATION.
6. UNLESS OTHERWISE NOTED ON THE PLANS, ALL WALL-MOUNTED OUTLETS SHALL BE MOUNTED 15' ABOVE FINISHED FLOOR TO OUTLET BOTTOM. ALL COVER PLATES FOR ELECTRICAL AND TELEPHONE OUTLETS SHALL BE IVORY, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
7. PULL LINES SHALL BE INSTALLED IN EMPTY TELEPHONE CONDUIT AND RACEWAYS CONDUITS SHALL BE 3/4" MINIMUM AND TERMINATED ABOVE CEILING WITH INSULATED BUSHINGS
8. ALL CONDUCTORS SHALL BE COPPER AND COLOR CODED IN ACCORDANCE WITH NEC. UNLESS SPECIFICALLY INDICATED OTHERWISE.
9. EXTERIOR LIGHTING CONDUCTORS SHALL BE MINIMUM #8 AWG.
10. FURNISH AND INSTALL "GROUNDING" IN ACCORDANCE WITH NEC ARTICLE 250.

	RECESSED DOWNLIGHT		220V OUTLET
	RECESSED WALLWASH		SMOKE DETECTOR
	RECESSED 2 x 4 LIGHTING FIXTURE		FLOOR OR CEILING MOUNTED RECEPTACLE
	RECESSED 2 x 2 LIGHTING FIXTURE		COMPUTER OUTLET
	FLUORESCENT STRIP FIXTURE		FLOOR MOUNTED TELEPHONE OUTLET
	EMERG. LTG. FIXT. - REC. MTD. W/ BAT. PACK		J-BOX AND 1' CONDUIT TO ABOVE CEILING
	EMERG. LTG. FIXT. - WALL MTD. W/ BAT. PACK		WALL MOUNTED TELE/DATA OUTLET, PROVIDE DISCONNECT SWITCH
	EXIT SIGN		PANEL BOARD
	TOGGLE SWITCH		TELEPHONE BACKBOARD
	3-WAY SWITCH		MOTOR
	4-WAY SWITCH		GFI RECEPTACLE
	SWITCH WITH PILOT LIGHT		FLOOR MOUNTED COMPUTER OUTLET
	DIMMER SWITCH		EXPOSED CONDUIT
	MOTOR RATED SWITCH		GROUND CONNECTION AS NOTED
	JUNCTION BOX		TRANSFORMER
	DUPLEX RECEPTACLE		MANUAL FIRE ALARM PULL STATION
	EXISTING DUPLEX RECEPTACLE		WALL MOUNTED FIRE ALARM SIGNAL
	MOUNTED ABOVE COUNTER OR 42" AFF		WEATHERPROOF
	DOUBLE DUPLEX RECEPTACLE		ABOVE FINISHED FLOOR
	FIRE ALARM CONTROL PANEL		GROUND FAULT INTERRUPTING
	CABLE TV OUTLET		CEILING MOUNTED
	GAS DETECTOR		
	WALL MOUNTED GAS HORN/SROBE		

SYMBOL	DESCRIPTION	LAMPS	MODEL
	2' x 4' LAY-IN LED TROFFER	LED	LSI LPE24-HO-NW-UE
	2' x 2' LAY-IN LED TROFFER	LED	LSI LPE22-HO-NW-UE
	LINEAR HIGH BAY	LED	LSI LH811-LED=30L-S-UNV-50-ELDS
	LED CANOPY LIGHTS	LED	LSI XSPS-S-LED-SS-CW-120-GWT-DFL
	WALL PACK	LED	LSI TMWP-64W-45K-BZ
	LINEAR FLUORESCENT SHOP LGHT	LED	LSI EG3-8-S-LED-HO-50-UNV
	RECESSED CAN LIGHTS	LED	LSI LCD6-41-LED-40-52-UE-TR6B-SF-HAZ-WH
	EMERGENCY LIGHT W/BATTTERY PACK	LED	LSI LTEM-WH2
	EXIT SIGN W/EMERGENCY LIGHT	LED	LSI LPRX-R-U-WH-LD11-R



2302 Brockett Road
Tucker, Georgia
30084

770 934 0944
770 934 0945

LIGHTING PLAN

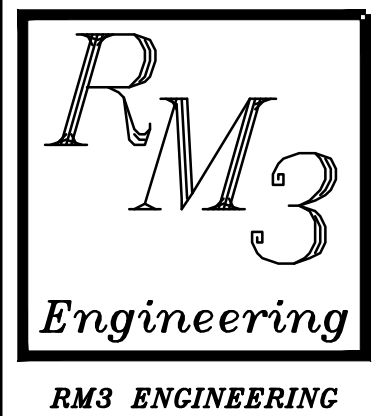
**WASTE MANAGEMENT
HAULING FACILITY**
HIGHWAY 17
HARDEEVILLE, SC

[illegible]

DATE:	11/1/2017
PROJECT No.	3E17-068

SHEET NO.

E1



2302 Brockett Road
Tucker, Georgia
30084
770 934 0944
770 934 0945

POWER PLAN

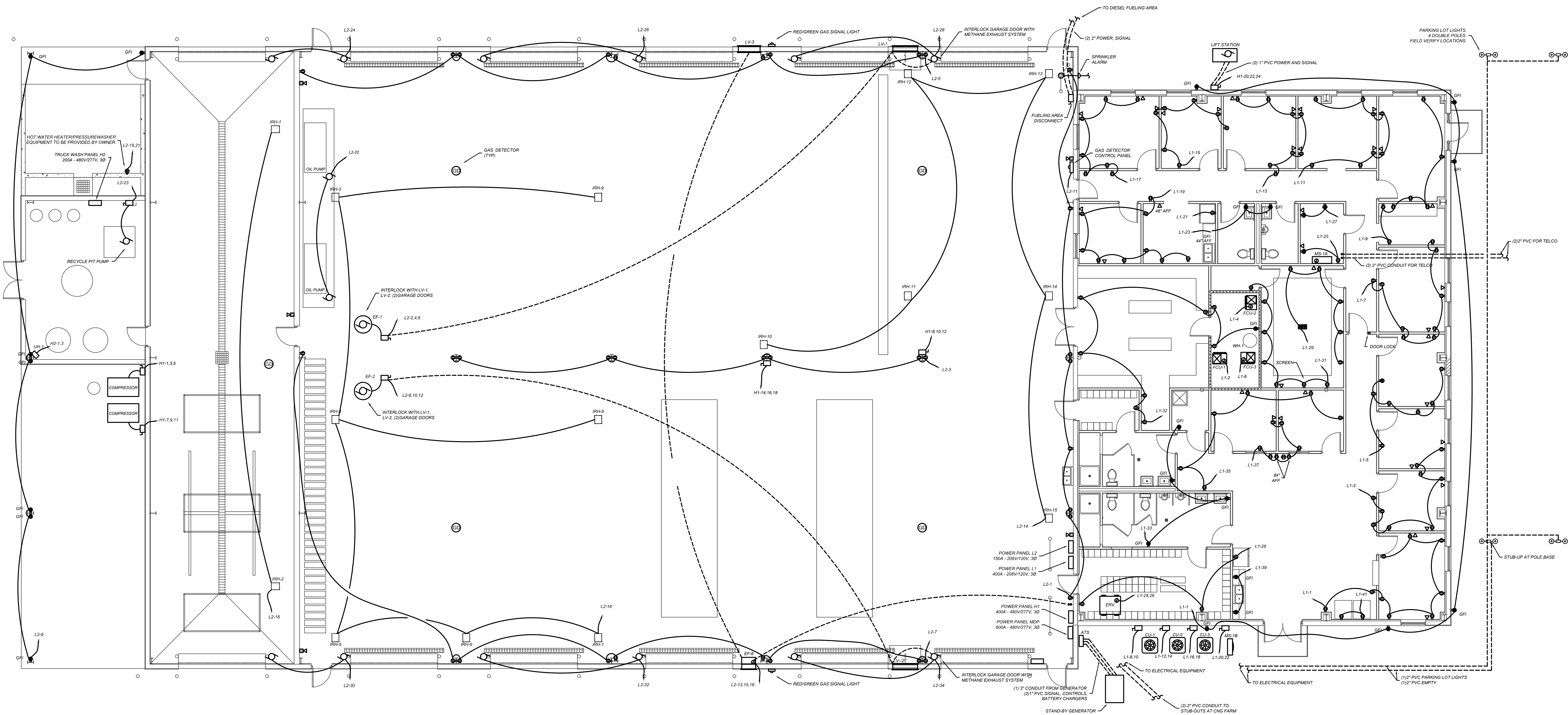
WASTE MANAGEMENT
HAULING FACILITY
HIGHWAY 17
HARDEEVILLE, SC

NO.	REVISIONS

DATE: 11/1/2017
PROJECT No. 3E17-068

SHEET NO.

E2



GENERAL PLUMBING NOTES:

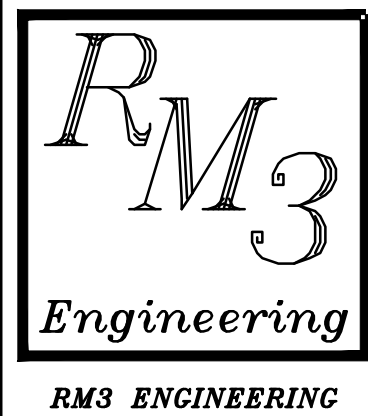
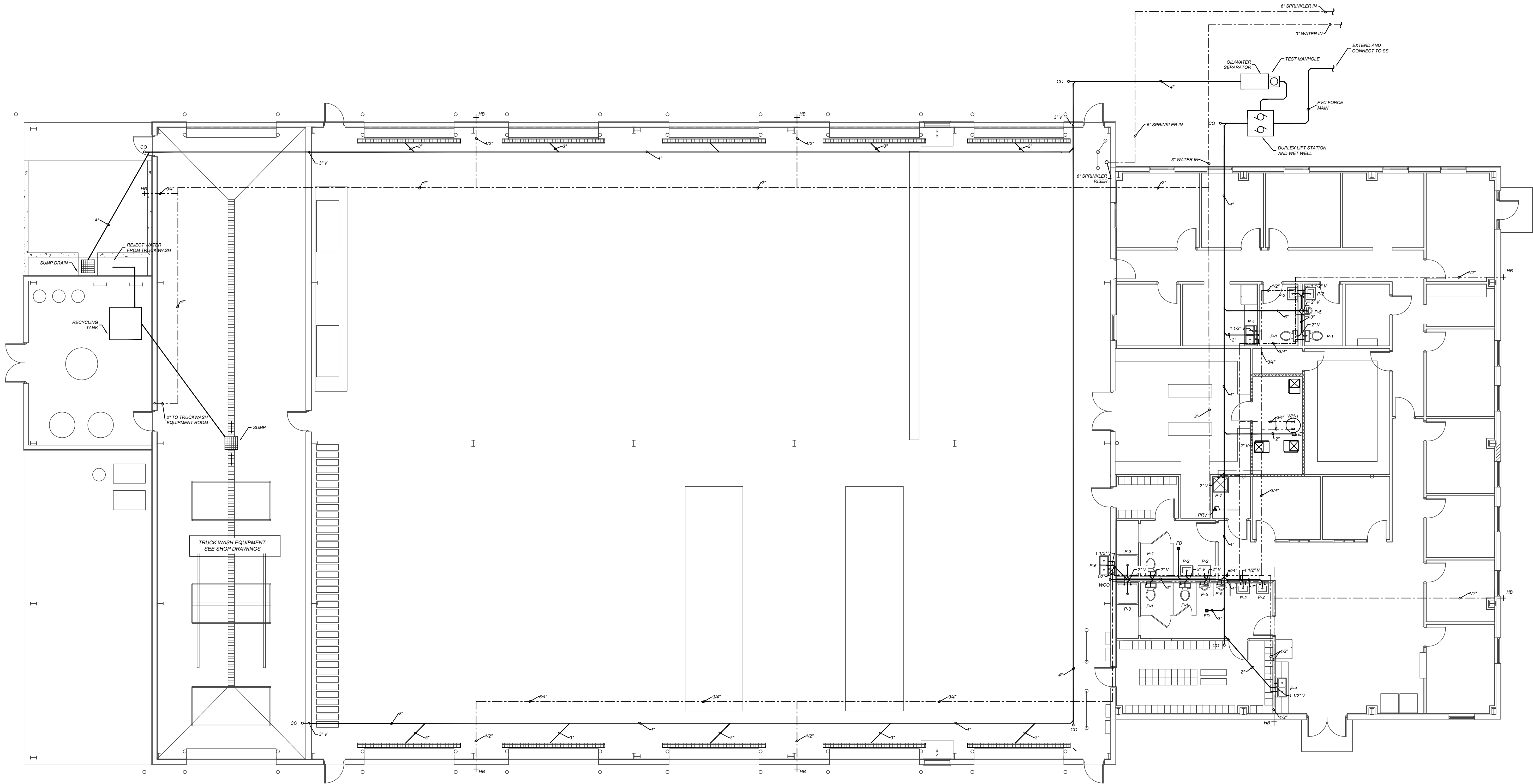
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS AND CEILING DEVICES. PROJECT IS A NEW STRUCTURE. ROUTE ALL PIPING AND CONDUIT AS INDICATED BUT SO AS NOT TO DEFACE EXTERIOR OF BUILDING. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
- FURNISH AND INSTALL ALL SYSTEMS OF WASTE AND VENT PIPING, HOT WATER PIPING AND COLD WATER PIPING, INCLUDING ALL FITTINGS, VALVES, ETC., AS REQUIRED.
- FURNISH AND INSTALL ALL PLUMBING FIXTURES AND EQUIPMENT AS SHOWN ON THE DRAWINGS.
- PROVIDE SHUT-OFF VALVES AT EACH FIXTURE.
- ALL PLUMBING PIPING SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE AND ABOVE DROP CEILINGS.
- ALL HOT AND COLD WATER PIPING ABOVE DROP CEILINGS SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PIPE INSULATION.
- HOT AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER.
- CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS AT EACH CHANGE IN DIRECTION. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE HVAC AND ELECTRICAL DIVISIONS TO AVOID INTERFERENCE WITH TRADES.

PLUMBING SYMBOL LEGEND

- VTR VENT THRU ROOF
○ CO CLEANOUT
⊠ FD FLOOR DRAIN
--- VENT
--- WASTE
--- COLD WATER
--- HOT WATER
--- LOW PRESSURE GAS
⊙ COMPRESSED AIR

PLUMBING FIXTURE SCHEDULE					
MARK	HOT WATER	COLD WATER	VENT	WASTE	REMARKS
P-1	-	1/2"	2"	3"	WATER CLOSET
P-2	1/2"	1/2"	1 1/4"	1 1/2"	LAVATORY
P-3	1/2"	1/2"	1 1/2"	2"	SHOWER
P-4	1/2"	1/2"	1 1/2"	2"	KITCHEN SINK
P-5	1/2"	-	1 1/2"	2"	URINAL
P-6	1/2"	1/2"	2"	2"	SHOP
P-7	1/2"	1/2"	2"	2"	MDP SINK
FD	-	-	2"	3"	FLOOR DRAIN
HB	-	1/2"	-	-	HOSE BIBB
HD	-	-	1 1/2"	2"	HUB DRAIN
WF	-	1/2"	1 1/4"	1 1/2"	WATER FOUNTAIN

GAS WATER HEATERS									
MARK	STORAGE GALLONS	RECOVERY	FIRST HOUR RATING	GAS INPUT BTU/HR	THERMAL EFFICIENCY	CONNECTIONS		MODEL*	NOTES
WH	60	95 GPH @ 90 F	124 GAL	76,000	0.95	COLD	HOT	A.D.SMITH GPHE-50	1



2302 Brockett Road
Tucker, Georgia
30084
770 934 0944
770 934 0945

PLUMBING PLAN

WASTE MANAGEMENT
HAULING FACILITY
HIGHWAY 17
HARDEEVILLE, SC

NO.	REVISIONS

DATE: 11/1/2017
PROJECT No. 3E17-068

SHEET NO.

1. ALL GAS PIPING TO BE SCHEDULE 40 STEEL, BLACK FOR INTERIOR, GALVANIZED FOR EXTERIOR.
2. PROVIDE GLOBE VALVE SHUT-OFF AT ALL GAS LINE CONNECTIONS TO EQUIPMENT.

