HCA
Hospital Corporation of America℠

LEE'S SUMMIT MEDICAL CENTER

LEE'S SUMMIT M.O.B.

2100 SE Blue Parkway, Lee's Summit, MO 64063

VOLUME 1: CIVIL, STRUCTURAL, ARCHITECTURAL, INTERIORS, MEP

HDA PROJECT NO.	217026.05	DATE:	REVISIONS:
HCA PROJECT NO.	N/A	02/15/19	
AHCA #	N/A		
OSHPD #	N/A		
CON #	N/A		

HCA DESIGN MANAGER:
HCA CONSTRUCTION MANAGER:

Project Status: CONSTRUCTION DOCUMENTS

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Thomas Alan Dooley
2-15-19

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PRIME SUBCONTRACTOR #4

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ADDRESS
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DRAWING LIST

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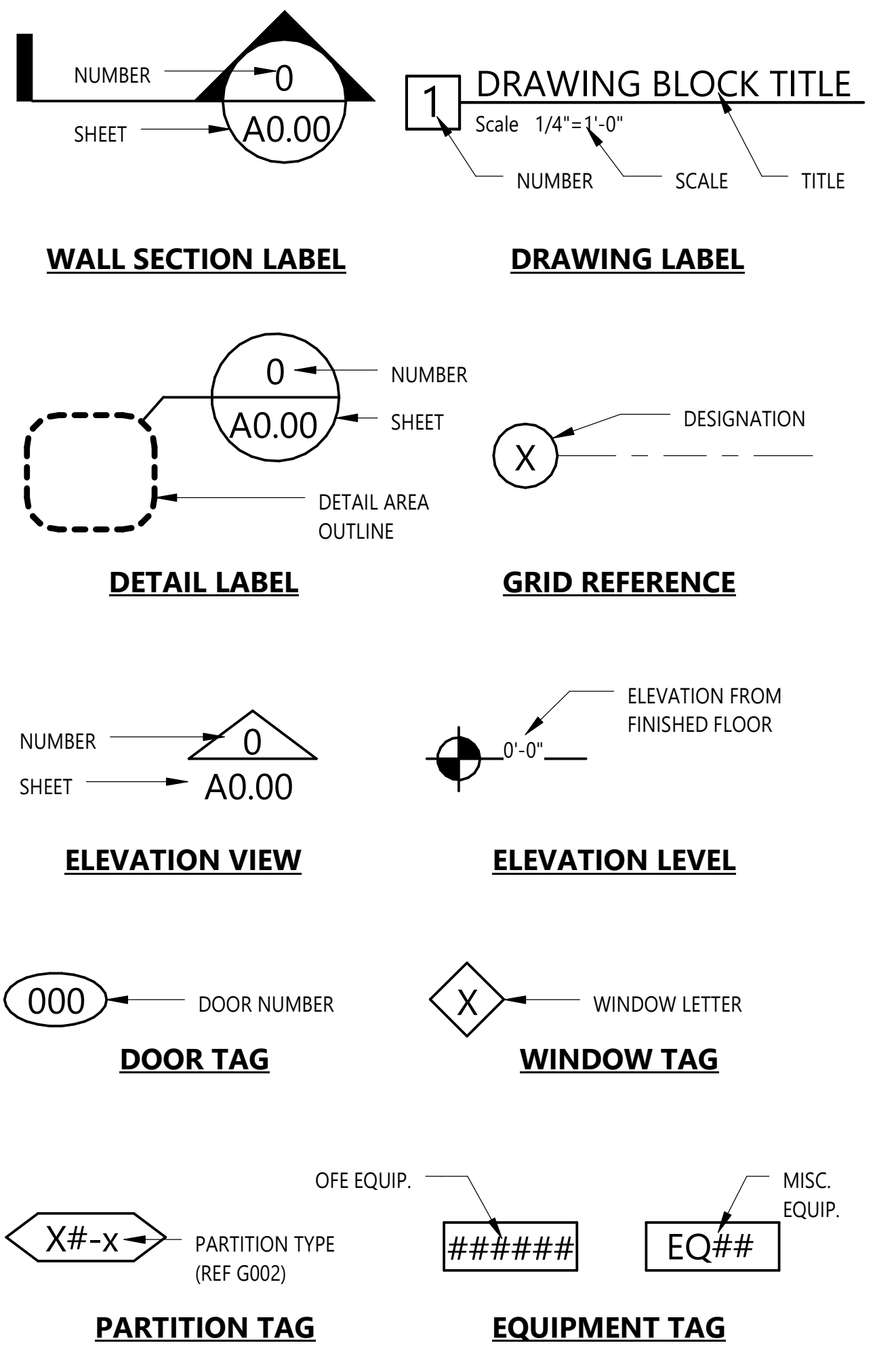
ANNOTATION SYMBOLS



ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ADA	AMERICANS W/ DISABILITIES ACT
ADJ	ADJUSTABLE
ALT	ALTERNATE
ALUM	ALUMINUM
BOD	BASIS OF DESIGN
CG	CORNER GUARD
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
DBL	DOUBLE
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DWG	DRAWING
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXT	EXTERIOR
FDC	FIRE DEPT. CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FOB	FACE OF BLOCK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRP	FIBERGLASS REINF. PLASTIC
FRT	FIRE RETARDANT TREATED
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
HM	HOLLOW METAL
HORIZ	HORIZONTAL
INSUL	INSULATED
INT	INTERIOR
LAV	LAVATORY
M.O.	MASONRY OPENING
MAX	MAXIMUM
MECH	MOISTURE RESISTANT GYPSUM WALL BOARD
MIN	MINIMUM
MTL	METAL
N/A	NOT APPLICABLE
NFHB	NON FREEZE HOSE BIB
NIC	NOT IN CONTRACT
O.C.	ON CENTER
OF / CI	OWNER FURN. CONTRACTOR INSTALL
OF / OI	OWNER FURN. OWNER INSTALL
OH	OPPOSITE HAND
OPP	OPPOSITE
PT	PRESSURE TREATED
R.O.	ROUGH OPENING
REINF	REINFORCED
RL	ROOF LEADER PIPE
SCW	SOLID CORE WOOD
SIM	SIMILAR
SOG	SLAB ON GRADE
STRUCT	STRUCTURAL
TFS	TO FACE OF STUD
TI	TENANT IMPROVEMENT
TOS	TOP OF STEEL
TYP.	TYPCAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VF / CI	VENDOR FURN. CONTRACTOR INSTALL
VIF	VERIFY IN FIELD

CODE SUMMARY

	Year
INTERNATIONAL BUILDING CODE	2012
INTERNATIONAL PLUMBING CODE	2012
INTERNATIONAL MECHANICAL CODE	2012
INTERNATIONAL FIRE CODE INCLUDING APPENDICES B,C,AND D	2012
INTERNATIONAL FUEL GAS CODE	2012
INTERNATIONAL ENERGY CONSERVATION CODE	2009
ICC A 117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	2009
INTERNATIONAL EXISTING BUILDING CODE	2012
INTERNATIONAL RESIDENTIAL CODE	2012
NFPA LIFE SAFETY CODE 101	2012
INTERNATIONAL PROPERTY MAINTENANCE CODE	2012
NATIONAL ELECTRIC CODE	2011

GENERAL NOTES

1. THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT OF RECORD, AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT. THESE DRAWINGS ARE TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND SHALL NOT TO BE USED ON ANY OTHER PROJECT. THESE DRAWINGS ARE A COMPOSITE SET AND SHALL NOT BE SEPARATED FOR DISTRIBUTION. THE GENERAL CONTRACTOR SHALL REVIEW ALL DRAWINGS AND DISTRIBUTE THE ENTIRE SET TO EACH SUBCONTRACTOR.
2. THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT EXISTING CONDITIONS AND VERIFY WORK TO BE PERFORMED BEFORE SUBMITTING COST QUOTATIONS FOR WORK.
3. NOTIFY THE ARCHITECT PROMPTLY OF ANY ERRORS, OMISSION, INCONSISTENCIES, DISCREPANCIES, AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS AND WITH FIELD CONDITIONS. DO NOT PROCEED WITH WORK UNTIL DISCREPANCIES ARE RESOLVED TO THE SATISFACTION OF ALL PARTIES.
4. DUE TO MECHANICAL REPRODUCTION ERRORS, DRAWING SCALES MAY NOT BE ACCURATE. DO NOT SCALE ANY DRAWINGS. REQUEST ANY MISSING DIMENSIONS FROM THE ARCHITECT.
5. ALL WORK PERFORMED SHALL BE IN STRICT COMPLIANCE WITH GOVERNING FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS, SHALL BE EXECUTED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS, AND SHALL CONFORM TO SPECIFIC REGULATIONS AS MANDATED BY THE OWNER, THE ARCHITECT, AND THE AUTHORITIES HAVING JURISDICTION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THE PROCUREMENT OF REQUIRED AND NECESSARY PERMITS AND APPROVALS PRIOR TO THE COMMENCEMENT OF ANY WORK, AND CERTIFICATE OF OCCUPANCY UPON COMPLETION OF PROJECT. THE G.C. IS RESPONSIBLE FOR ANY FEES ASSOCIATED WITH PROCURING SUCH PERMITS AND CERTIFICATES AND SHALL FURNISH COPIES OF PERMITS, INSPECTIONS, AND CERTIFICATES TO THE OWNER.
6. THE GENERAL CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO THE OWNER AND THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK. REQUIRED DATES FOR SUBMITTALS SHALL BE INCLUDED WITH THE CONSTRUCTION SCHEDULE. THE ARCHITECT MAY REQUIRE UP TO 10 BUSINESS DAYS TO PROCESS SUBMITTALS.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF TRASH AND DEBRIS FROM JOB SITE ON A DAILY BASIS. FINAL CLEANUP WITHIN SCOPE OFWORK: REMOVE DUST, DEBRIS, OILS, STAINS, FINGERPRINTS AND LABELS FROM ALL EXPOSED, FINISHED SURFACES AND CLEAN ALL WINDOWS AND BLINDS. WAX AND/OR VACUUM FLOORS PER MANUFACTURER'S RECOMMENDATIONS. THOROUGHLY CLEAN ALL LIGHT LENSES AND AIR DIFFUSERS, AND CHANGE ALL DIRTY FILTERS. ALL WASTE MATERIAL, RUBBISH, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND OTHER SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO TURN-OVER DATE.
8. ANY REQUESTS FOR SUBSTITUTIONS OF ANY SPECIFIED ITEM ARE TO BE SUBMITTED TO THE ARCHITECT IN WRITING AND WILL BE CONSIDERED ONLY IF THE ALTERNATE PROPOSED IS PROVEN TO BE ADVANTAGEOUS TO THE OWNER WITH RESPECT TO DELIVERY DATE, QUALITY, OR COST.
9. THE ARCHITECT HAS NOT CONDUCTED ANY INVESTIGATION AS TO THE PRESENCE OF ASBESTOS OR OTHER HAZARDOUS SUBSTANCES ON THE PROJECT SITE AND ASSUMES NO RESPONSIBILITY WITH RESPECT TO SAME. NO ASBESTOS PRODUCTS OR PRODUCTS CONTAINING UREA FORMALDEHYDE WILL BE ACCEPTED.
10. THE MEANS AND METHODS OF CONSTRUCTION, AND TEMPORARY STRUCTURES AND FACILITIES, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ARCHITECT DOES NOT ASSUME ANY RESPONSIBILITY FOR THE CONTRACTOR'S MEANS AND METHODS OR FOR TEMPORARY STRUCTURES.
11. JOB SITE SAFETY AND SECURITY ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE G.C. SHALL CONSULT WITH LOCAL FIRE AUTHORITIES TO ASCERTAIN REQUIREMENTS FOR FIRE SUPPRESSION AND SAFETY DURING CONSTRUCTION. THE G.C. IS SOLELY RESPONSIBLE FOR MEETING OSHA REGULATIONS DURING CONSTRUCTION.
12. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR STORAGE AND PROTECTION OF BUILDING MATERIALS, AND INSTALLED CONSTRUCTION, FROM INCLEMENT WEATHER, THEFT, AND OTHER HAZARDS. THE G.C. SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR STORAGE OF MATERIALS. PARTIALLY COMPLETED WALLS SHALL BE COVERED TO PROTECT FROM WATER INTRUSION. DAMAGE, INCLUDING BUT NOT LIMITED TO MOLD, RESULTING FROM WATER INTRUSION DURING CONSTRUCTION SHALL BE REPAIRED AT THE G.C.'S EXPENSE.
13. THE GENERAL CONTRACTOR SHALL OBTAIN A HOT WORK PERMIT PRIOR TO BEGINNING ANY WELDING, CUTTING, BRAZING, GRINDING OR OTHER WORK THAT GENERATES SPARKS CAPABLE OF CAUSING COMBUSTION. SEE NFPA 51B AND APPD'X 'A'. ALSO A FIRE WATCH OR A GUARD WATCH WILL BE REQUIRED DURING THE PROCESS OF ANY HOT WORK GENERATING SPARKS CAPABLE OF CAUSING COMBUSTION AS REQUIRED BY NFPA 601.
14. THE TENANT SPACE SHOULD BE COMPLETE AND OPERATIONAL, INCLUDING ALL FINISHES, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS PRIOR TO SCHEDULED MOVE-IN DATE.
15. ALL DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT GUARANTEED TO BE CORRECT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE GENERAL CONTRACTOR BEFORE PROCEEDING WITH ANY WORK. ANY DISCREPANCIES, ERRORS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCING WORK.
16. FLOOR TOLERANCE: IN LAYING OUT AND DETAILING THE WORK TO BE COMPLETED, CONSIDERATION IS TO BE GIVEN TO VARIATIONS IN THE FLOORLEVELNESS RESULTING FROM CONSTRUCTION QUALITY PLUS LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATIONS ARE TO BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES, ALIGNMENT OF DOOR HEADS AND OTHER HORIZONTAL ELEMENTS ARE TO BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED USING AN APPROVED LEVELING COMPOUND.
17. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL RELATED TRADES AND VENDORS NECESSARY TO THE COMPLETION OF THE JOB IN A TIMELY BASIS.
18. ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS AND RECESSED OBJECTS, OVER 16 SQUARE INCHES, ARE TO BE WRAPPED IN GYPSUM BOARD TO MAINTAIN THE WALL RATING.
19. FIELD CHANGES REQUESTED BY TENANT/OWNER MAY AFFECT PRICING AND/OR COMPLETION DATE. CONTRACTOR IS TO NOTIFY OWNER OF CHANGE - WRITTEN APPROVAL IS TO BE OBTAINED BEFORE IMPLEMENTATION.
20. ACCESSIBILITY COMPLIANCE: THIS IS TO CERTIFY THAT THESE PLANS HAVE BEEN PREPARE IN CONFORMITY WITH ICC/ANSI A117.1 CODE FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE AND USABLE BY PHYSICALLY HANDICAPPED PEOPLE TO THE BEST OF OUR PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF FOR THE SCOPE OF THE WORK HEREIN PERMITTED.
21. ALL MATERIALS INSTALLED WITHIN PLENUM AREAS ARE TO BE NON COMBUSTIBLE.
22. FOR ALL PRODUCTS INSTALLED, REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION.
23. BUILDING CORRIDORS AND LOBBIES SHALL BE KEPT CLEAN AND CLEAR OF MATERIALS AND EQUIPMENT. JANITORS SINK MAY BE USED AS A WATER SOURCE, BUT MUST BE KEPT CLEAN. SPECIFIC TOILET FACILITIES IDENTIFIED BY THE FACILITY MAY BE USED, BUT MUST BE KEPT CLEAN. CONTRACTOR IS RESPONSIBLE FOR CLEANING AND REPAIR OF DAMAGE CAUSED BY CONSTRUCTION PERSONNEL.
24. IN AREAS IN WHICH WORK IS DONE, PATCH AND REPAIR EXISTING FIREPROOFING TO MAINTAIN FIRE RESISTANCE RATING.
25. ALL UNUSED ROOF PENETRATIONS ARE TO BE CLOSED USING U.L. APPROVED FIRESTOP SYSTEM.
26. ALL GLASS WITHIN 12" OF DOORWAYS AND 24" OF WALKING SURFACES IS TO BE SAFETY GLAZING.
27. SHOP DRAWINGS FOR ALL MILLWORK ARE TO BE SUBMITTED FOR ARCHITECT'S REVIEW. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING FABRICATION OF ANY CASEWORK ITEMS.
28. PROVIDE 12" MINIMUM CLEARANCE FOR HANDICAPPED ACCESS FROM EDGE OF ALL DOORS ON "PUSH" SIDE OF THE ADJACENT FINISHED WALL SURFACE. PROVIDE 18" MINIMUM CLEARANCE FOR HANDICAPPED ACCESS FROM EDGE OF ALL DOORS ON THE "PULL" SIDE TO THE ADJACENT FINISHED WALL.
29. PROVIDE IN-WALL METAL BACKING IN PARTITION AT ALL LOCATIONS WHERE WORK SURFACES, SHELVING, BRACKETS, DISPLAYS AND/OR EQUIPMENT WILL BE MOUNTED OR ATTACHED TO FACE OF WALL.
30. ON WALLS GREATER THAN 10 FEET IN HEIGHT AND AT DOORS AND WALL OPENINGS, PROVIDE DOUBLE STUDS, BLOCKING AND DIAGONAL BRACING AS REQUIRED.
31. CAULK ALL PLUMBING FIXTURES, MILLWORK, TRIM, DOOR AND WINDOW FRAMES TO ADJACENT SURFACES. CAULK COLOR TO MATCH ADJACENT FINISH. SUBMIT COLORS FOR APPROVAL.
32. ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHOULD CHECK QUANTITIES AND DELIVERY DATES AS SOON AS POSSIBLE TO AVOID ANY RESELECTION OF MATERIALS.
33. ALL DASHED EQUIPMENT SHALL BE OWNER FURNISHED EQUIPMENT (O.F.E.) THE CONTRACTOR SHALL COORDINATE WITH OWNER OR VENDOR ON INSTALLATION OF EQUIPMENT, INCLUDING REQUIRED CLEARANCES AND CONNECTIONS.
34. PROVIDE TRANSITION STRIPS AT ALL CHANGES IN FLOOR FINISH.
35. STENCIL WALL RATING ON WALL ABOVE THE CEILING. LETTERS TO BE MIN 3" HIGH WITH 1/2" STROKE AND LABELED AT NOT MORE THAN 15' O.C. LABEL AS FIRE, SMOKE AND NO. OF HOURS. WALLS NOT RATED TO BE LABELED "NO WALL RATING REQUIRED" IF WALL EXTENDS TO DECK AND IS NOT RATED.
36. WATER RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL PLUMBING FIXTURES.
37. CONTRACTOR SHALL ARRANGE FOR THE BUILDING TO BE TESTED FOR COMPLIANCE WITH THE MINIMUM RADIO SIGNAL STRENGTH POLICY. THIS STATES THAT ALL NEW BUILDINGS MUST COMPLY WITH NFPA 1 CHAPTER 11.10.1, WHICH PROVIDES FOR THE AHJ TO ESTABLISH MINIMUM STANDARDS FOR IN BUILDING PUBLIC SAFETY RADIO COMMUNICATIONS.

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

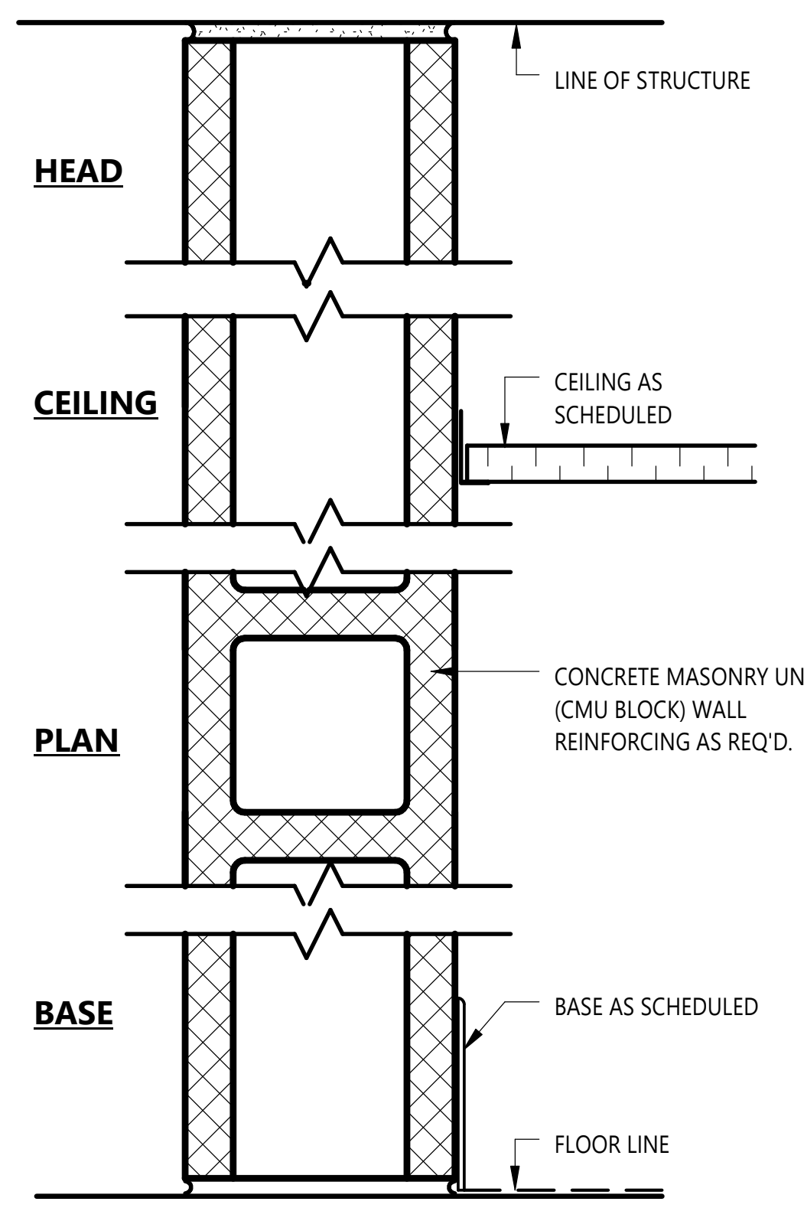
THOMAS ALAN DOOLEY
A-7733
5-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
SHEET INDEX & GENERAL INFORMATION

SHEET
G001



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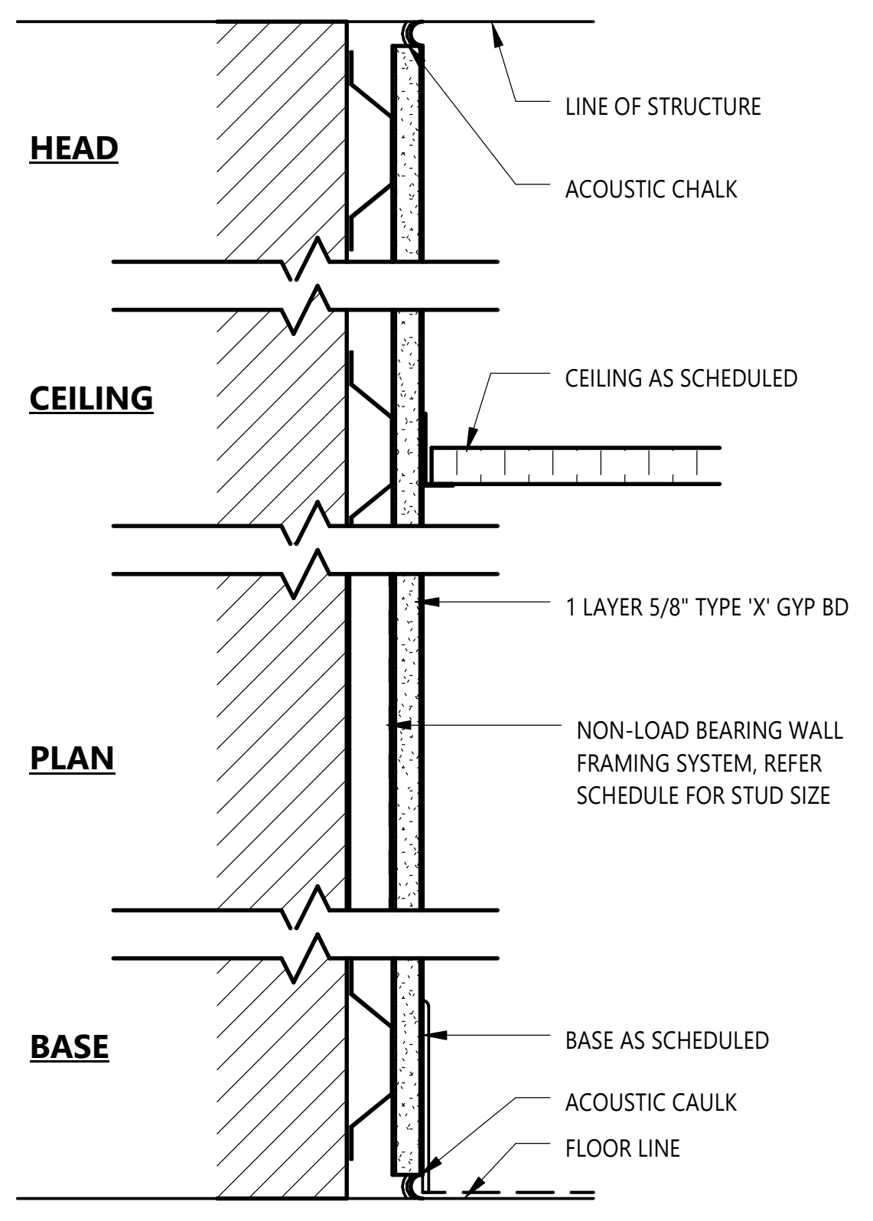

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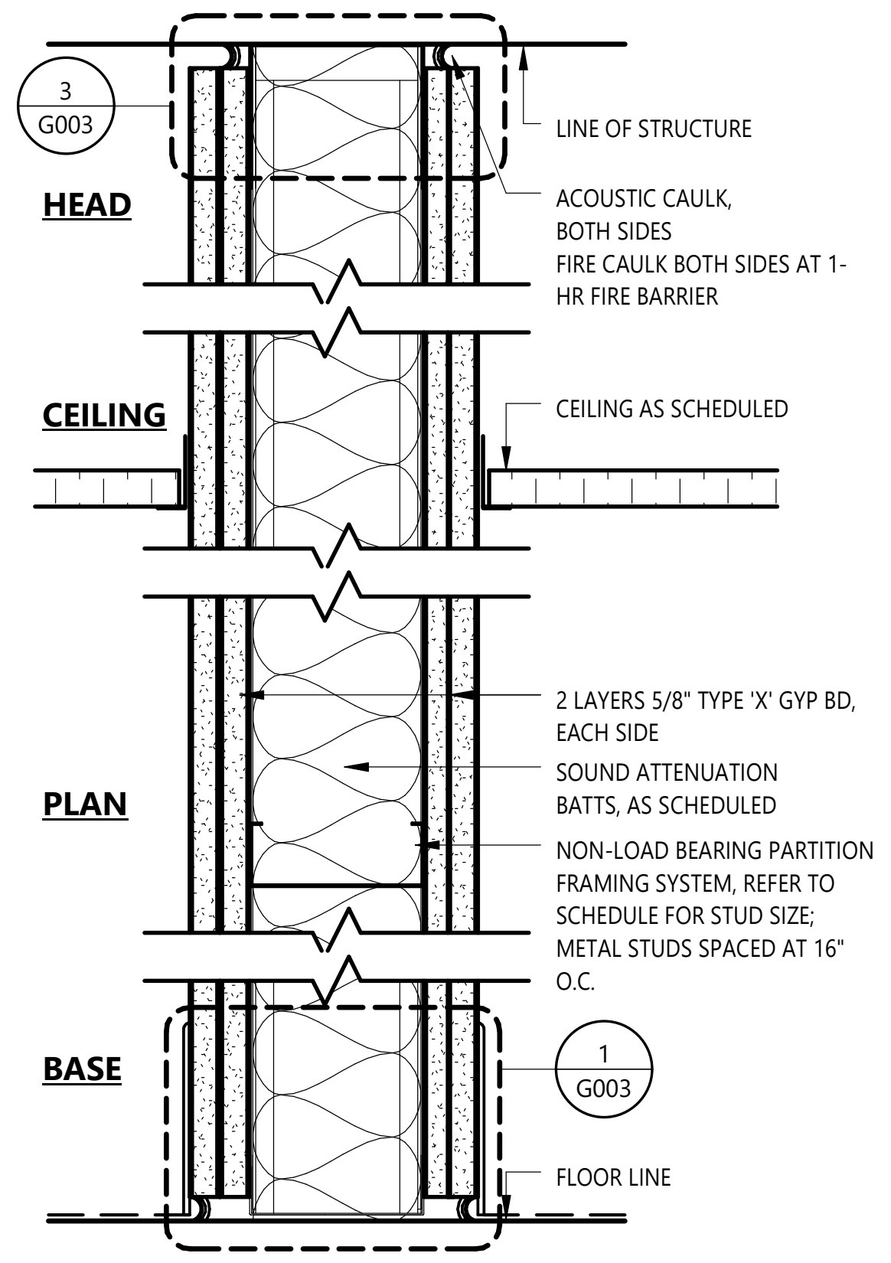
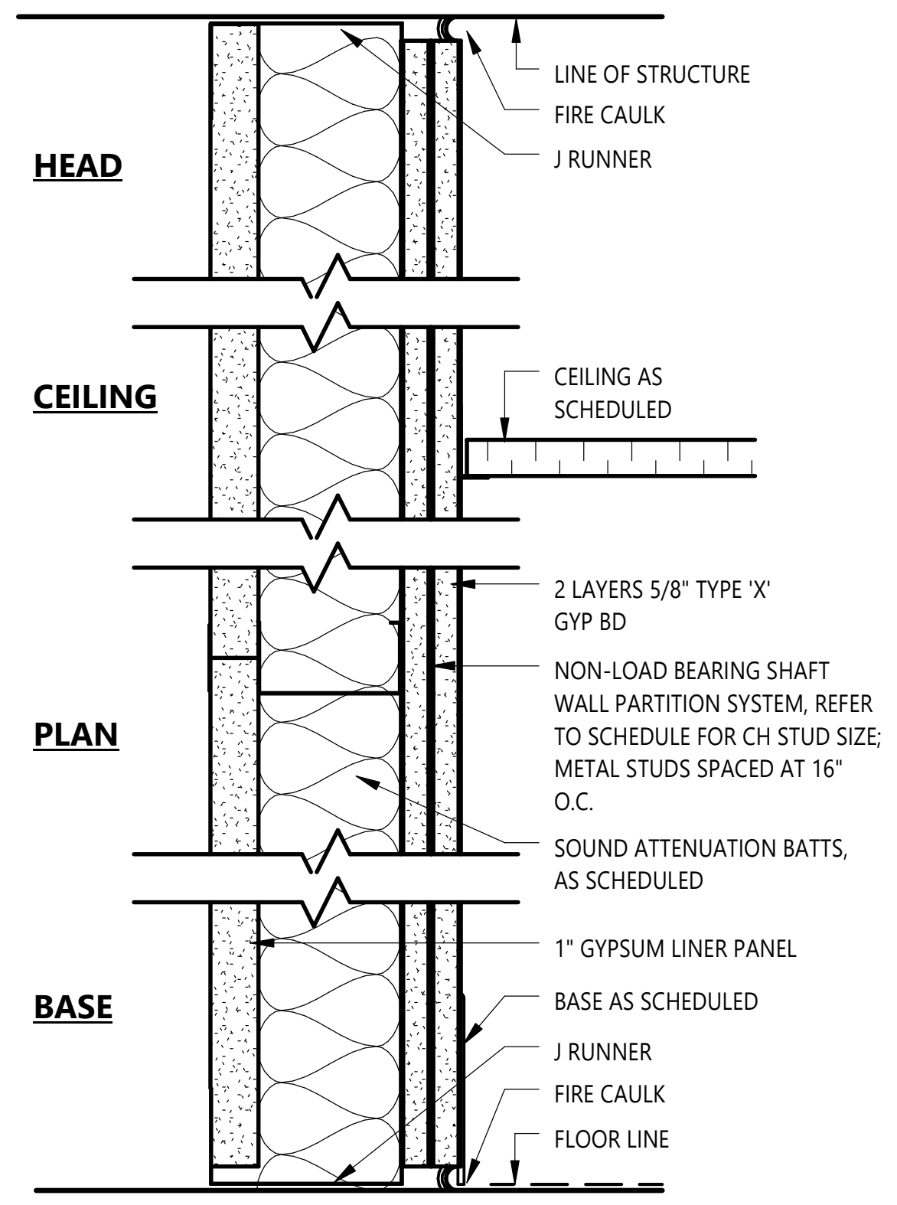
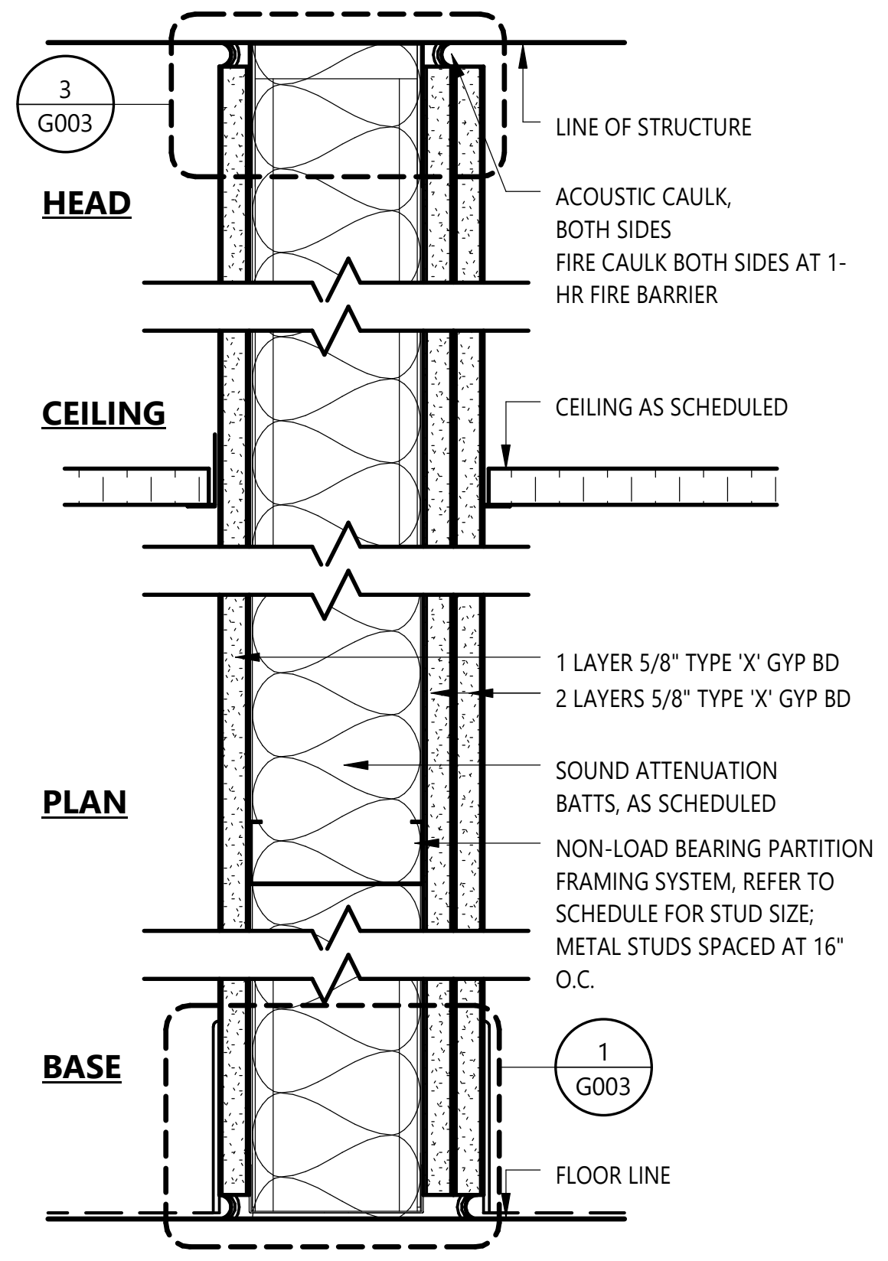

3
G003
HEAD
CEILING
PLAN
BASE
LINE OF STRUCTURE
ACOUSTIC CAULK, BOTH SIDES
FIRE CAULK BOTH SIDES AT 1-HR FIRE BARRIER
CEILING AS SCHEDULED
2 LAYERS 5/8" TYPE 'X' GYP BD, EACH SIDE
SOUND ATTENUATION BATTS, AS SCHEDULED
NON-LOAD BEARING PARTITION FRAMING SYSTEM, REFER TO SCHEDULE FOR STUD SIZE; METAL STUDS SPACED AT 16" O.C.
1
G003
FLOOR LINE

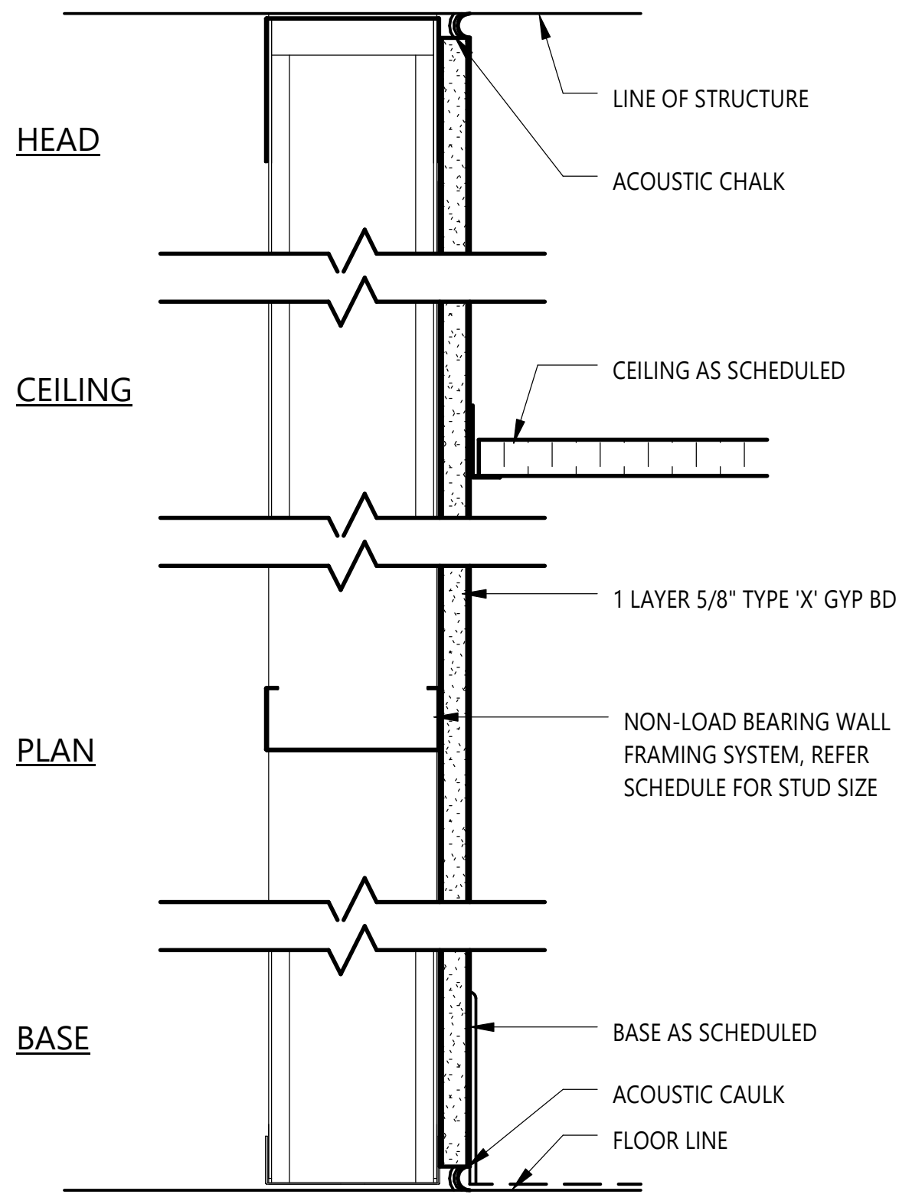
PARTITION TYPE 'C'


HEAD
CEILING
PLAN
BASE
LINE OF STRUCTURE
FIRE CAULK
J RUNNER
CEILING AS SCHEDULED
2 LAYERS 5/8" TYPE 'X' GYP BD
NON-LOAD BEARING SHAFT WALL PARTITION SYSTEM, REFER TO SCHEDULE FOR CH STUD SIZE; METAL STUDS SPACED AT 16" O.C.
SOUND ATTENUATION BATTS, AS SCHEDULED
1" GYPSUM LINER PANEL
BASE AS SCHEDULED
J RUNNER
FIRE CAULK
FLOOR LINE

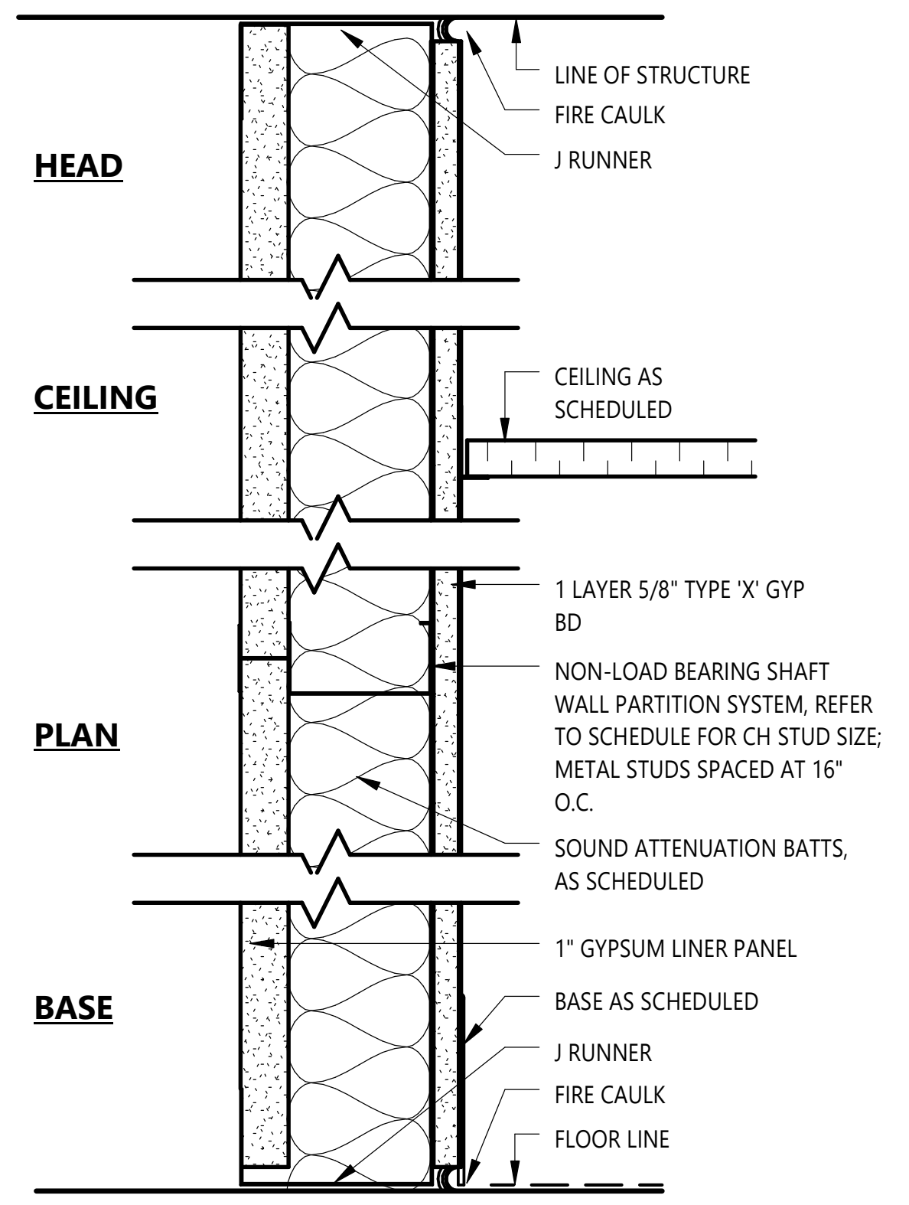
PARTITION TYPE 'H'


3
G003
HEAD
CEILING
PLAN
BASE
LINE OF STRUCTURE
ACOUSTIC CAULK, BOTH SIDES
FIRE CAULK BOTH SIDES AT 1-HR FIRE BARRIER
CEILING AS SCHEDULED
1 LAYER 5/8" TYPE 'X' GYP BD
2 LAYERS 5/8" TYPE 'X' GYP BD
SOUND ATTENUATION BATTS, AS SCHEDULED
NON-LOAD BEARING PARTITION FRAMING SYSTEM, REFER TO SCHEDULE FOR STUD SIZE; METAL STUDS SPACED AT 16" O.C.
1
G003
FLOOR LINE

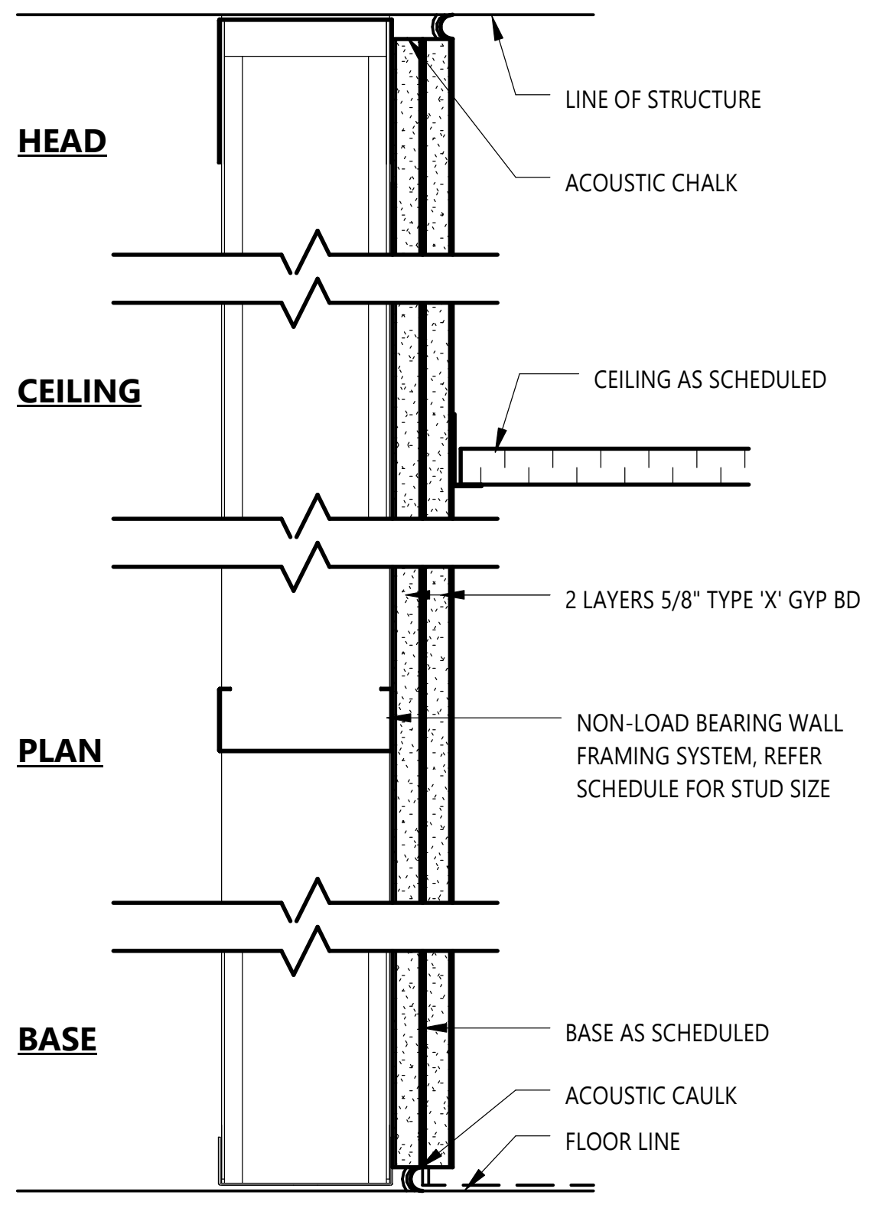
PARTITION TYPE 'E'



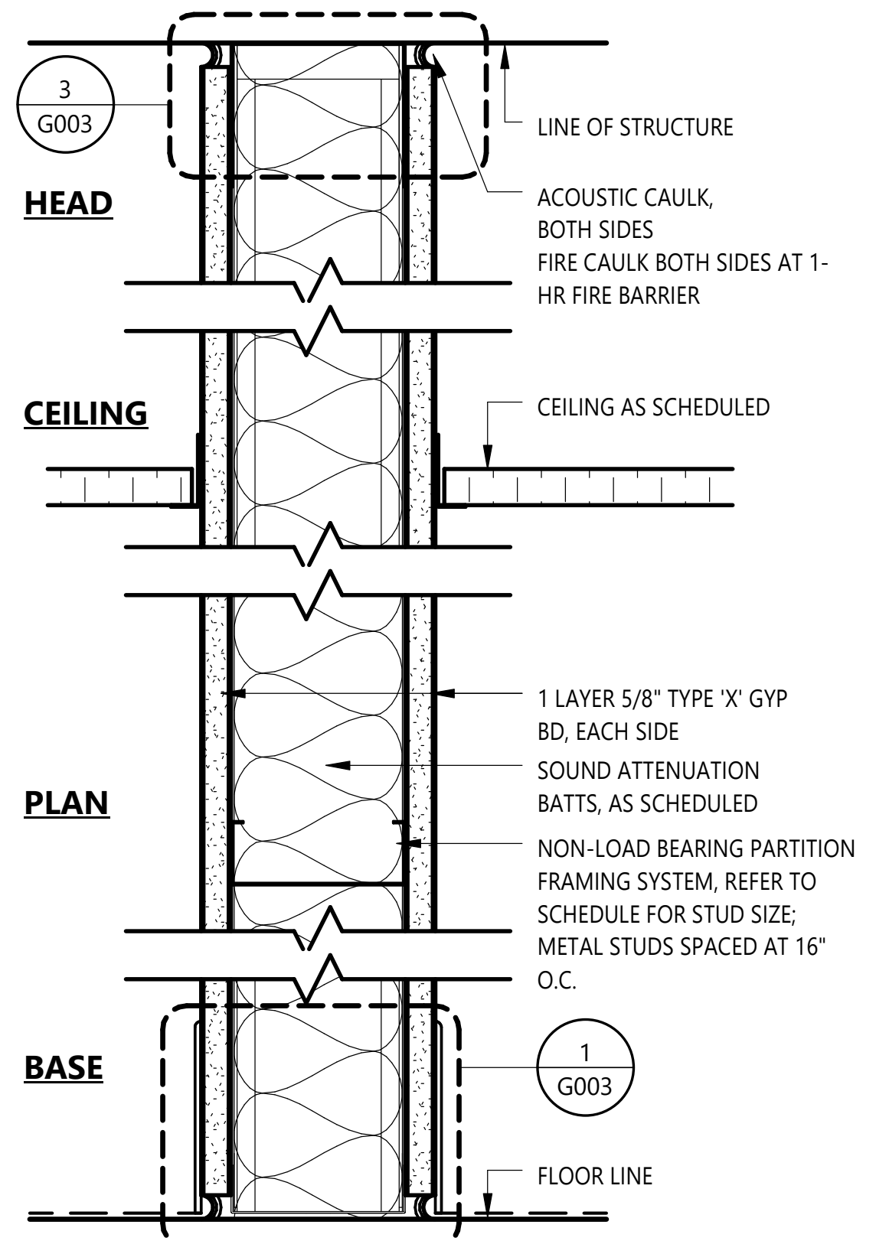
PARTITION TYPE 'B'


HEAD
CEILING
PLAN
BASE
LINE OF STRUCTURE
FIRE CAULK
J RUNNER
CEILING AS SCHEDULED
1 LAYER 5/8" TYPE 'X' GYP BD
NON-LOAD BEARING SHAFT WALL PARTITION SYSTEM, REFER TO SCHEDULE FOR CH STUD SIZE; METAL STUDS SPACED AT 16" O.C.
SOUND ATTENUATION BATTS, AS SCHEDULED
1" GYPSUM LINER PANEL
BASE AS SCHEDULED
J RUNNER
FIRE CAULK
FLOOR LINE

PARTITION TYPE 'G'



PARTITION TYPE 'D'


3
G003
HEAD
CEILING
PLAN
BASE
LINE OF STRUCTURE
ACOUSTIC CAULK, BOTH SIDES
FIRE CAULK BOTH SIDES AT 1-HR FIRE BARRIER
CEILING AS SCHEDULED
1 LAYER 5/8" TYPE 'X' GYP BD, EACH SIDE
SOUND ATTENUATION BATTS, AS SCHEDULED
NON-LOAD BEARING PARTITION FRAMING SYSTEM, REFER TO SCHEDULE FOR STUD SIZE; METAL STUDS SPACED AT 16" O.C.
1
G003
FLOOR LINE

PARTITION TYPE 'A'

PARTITION TYPES

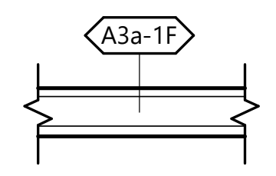
TYPE	STUD / BLOCK SIZE	BATT	FIRE RATING	UL Design	COMMENTS
TYPE A					
A3	3 5/8" MS	No			
A6	6" MS	No			
A6-1F	6" MS	No	1HR	UL465	
TYPE B					
	3 5/8" MS	No			
B2	2 1/2" MS	No			
B3	3 5/8" MS	No			
TYPE G					
G2-1F	2 ½" C-H Stud	No	1HR		

PARTITION TYPE GENERAL NOTES

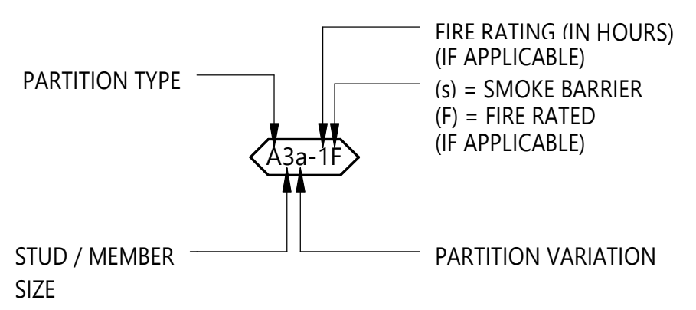
1. PROVIDE MOISTURE RESISTANT GYPSUM BOARD ON JANITOR AND TOILET ROOM PARTITIONS AND CEILINGS, ON PARTITIONS ADJACENT TO CASEWORK WITH SINKS, AND ON PARTITIONS ADJACENT TO HAND-WASH STATIONS/LAVATORIES UNLESS NOTED OTHERWISE.
2. REFER TO UL DETAILS FOR ADDITIONAL INFORMATION.
3. TYPICAL INTERIOR PARTITIONS ARE UNRATED AND SHALL EXTEND THROUGH CEILING TO DECK ABOVE UNLESS OTHERWISE NOTED.
4. FIRE/SMOKE BARRIER WALLS SHALL BE CONSTRUCTED UNINTERRUPTED. PENETRATIONS IN SMOKE OR OTHER FIRE RATED WALLS IN THE EXCESS OF 16 SQ. IN. SHALL BE PROTECTED WITH A FIVE-SIDED ENCLOSURE OF TYPE 'X' GYPSUM WALLBOARD.
5. ALL GYPSUM WALLBOARD SHALL BE FIRE RESISTIVE UL CLASSIFIED TYPE 'X' MATERIAL APPLIED IN STRICT CONFORMANCE TO THE APPLICABLE FIRE TEST DESIGN WITH JOINTS ON OPPOSITE WALL FACES OFFSET FROM EACH OTHER A MINIMUM OF 16" HORIZONTALLY AND VERTICALLY. FASTENERS SHALL BE OF APPROVED TYPE AND INSTALLED IN ACCORDANCE WITH APPLICABLE FIRE TEST. ALL WALLBOARD JOINTS SHALL BE TAPED AND FINISHED WITH TAPE COMPOUND INCLUDING THOSE ABOVE THE CEILING. HOWEVER, SCREWS IN BLOW-OUT PATCHES SHALL NOT BE COVERED WITH COMPOUND.
6. PENETRATIONS FOR PIPE CONDUIT, DUCT & ETC. WITH ANNULAR OPENINGS ABOUT THEM THAT EXCEED 1/2" SHALL BE SEALED SMOKE TIGHT WITH LAYERS OF GYPSUM WALLBOARD EQUAL TO THAT OF THE PARTITIONS CONSTRUCTION. CUT TO FIT TIGHT TO PENETRATIONS AND EXTEND A MINIMUM OF 4" BEYOND PENETRATION ANNULAR OPENING APERTURE BUT NOT LESS THAN REQUIRED TO LAP ADJACENT STUDS AND HEADERS.
7. PENETRATIONS IN EXCESS OF 8" IN MAXIMUM DIMENSION SHALL BE FRAMED WITH RUNNER CHANNEL HEADERS SECURED TO STUDS WITH LEGS FACING PENETRATION OPENING TO HOLD TIGHTLY COMPRESSED MINERAL FIBER SAFING INSULATION. IF APERTURE OF PENETRATION EXCEEDS TWO INCHES, SECURE SAFING WITH WALLBOARD PATCH AS DESCRIBED BEFORE.
8. WHERE A RATED PARTITION INTERSECTS WITH THE NON-RATED ROOF DECK ASSEMBLY, THE FOLLOWING HEAD OF WALL ASSEMBLY SHALL BE USED:
   UL HW-D-0049
9. WHERE A RATED PARTITION SITS ON A CONCRETE SLAB-ON-GRADE, THE JOINT ASSEMBLY SHALL BE:
   UL BW-S-0001
10. WHERE LESS THAN 12" DIA CONDUIT PENETRATES A RATED GYPSUM PARTITION, THE JOINT ASSEMBLY SHALL BE:
    UL W-L-5001
11. WHERE LOW-VOLTAGE WIRING PENETRATES A RATED GYPSUM PARTITION, THE JOINT ASSEMBLY SHALL BE:
    UL W-L-3320 (IN WALL)
    UL W-L-3334 (THRU WALL)

PARTITION TAG LEGEND

PARTITION TYPE GRAPHIC



PARTITION TYPE ABBREVIATION



STUD / MEMBER SIZE	STUD SIZE	CMU WIDTH
0	⅞" - HAT	
1	1 ⅝"	
2	2 ½"	1 ⅝"
3	3 ⅝"	
4	4"	3 ⅝"
6	6"	5 ⅝"
8	8"	7 ⅝"
10	10"	9 ⅝"
12	12"	11 ⅝"

PARTITION PRIORITY LEGEND

PARTITION TYPE	PRIORITY
1 HR SMOKE BARRIER/SHAFT ENCLOSURE	1 HIGHEST
1 HR FIRE BARRIER/SHAFT ENCLOSURE	2
SMOKE PARTITION	3
(NON RATED)	4 LOWEST

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WWW.HDARCHITECTS.COM

PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
THOMAS ALAN DOOLEY
A-7733
REGISTERED ARCHITECT

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
PARTITION TYPES

SHEET
G002

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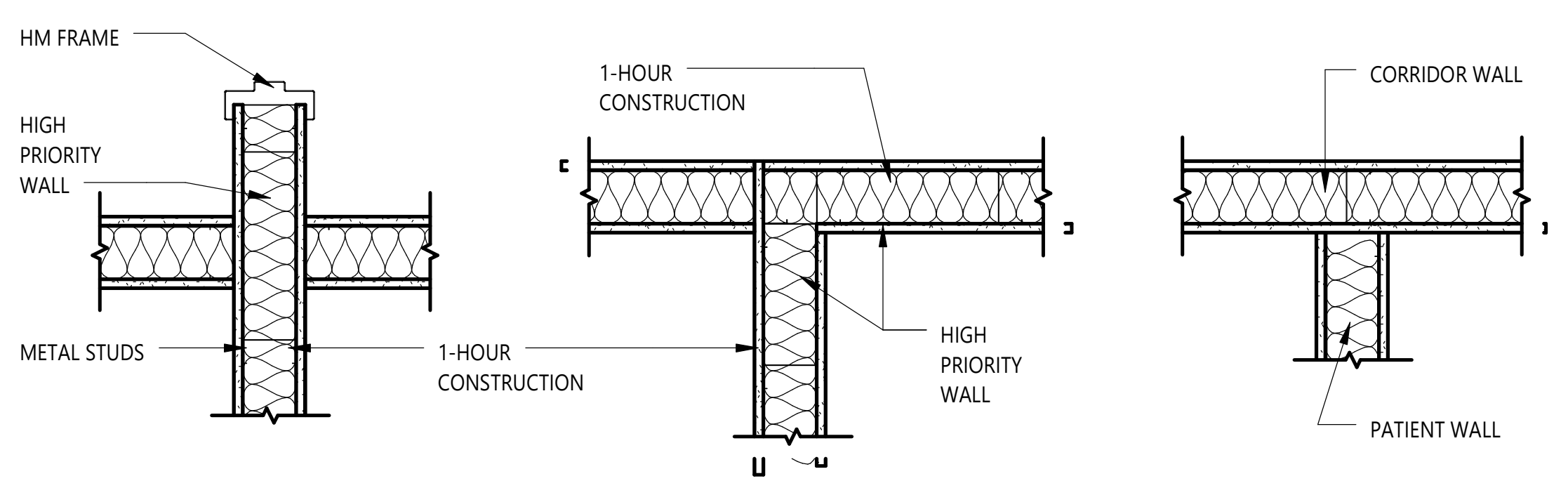
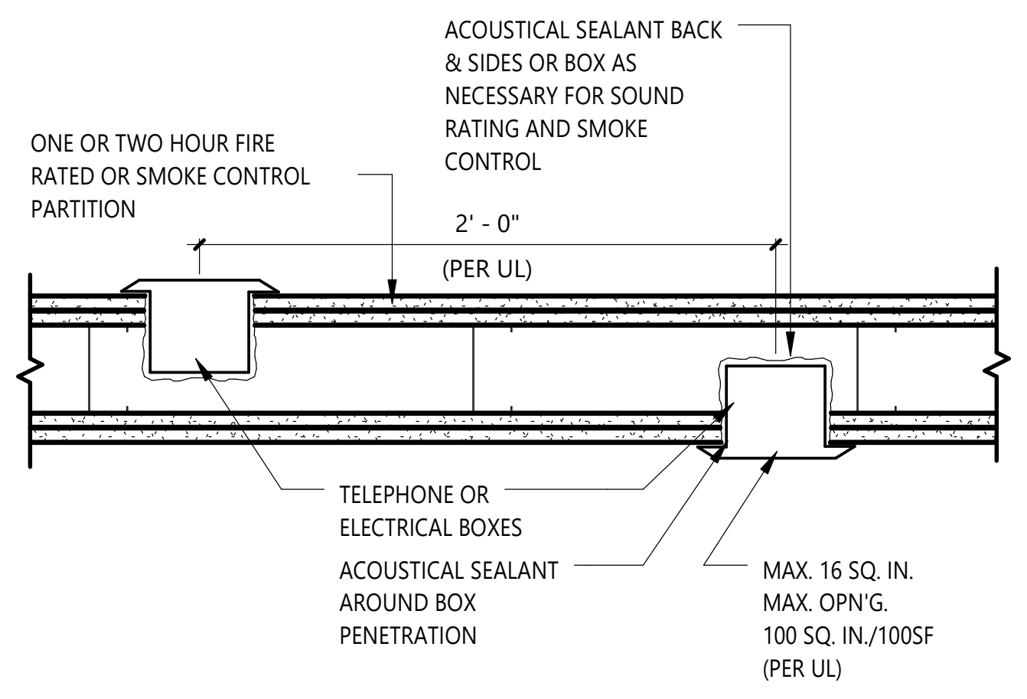
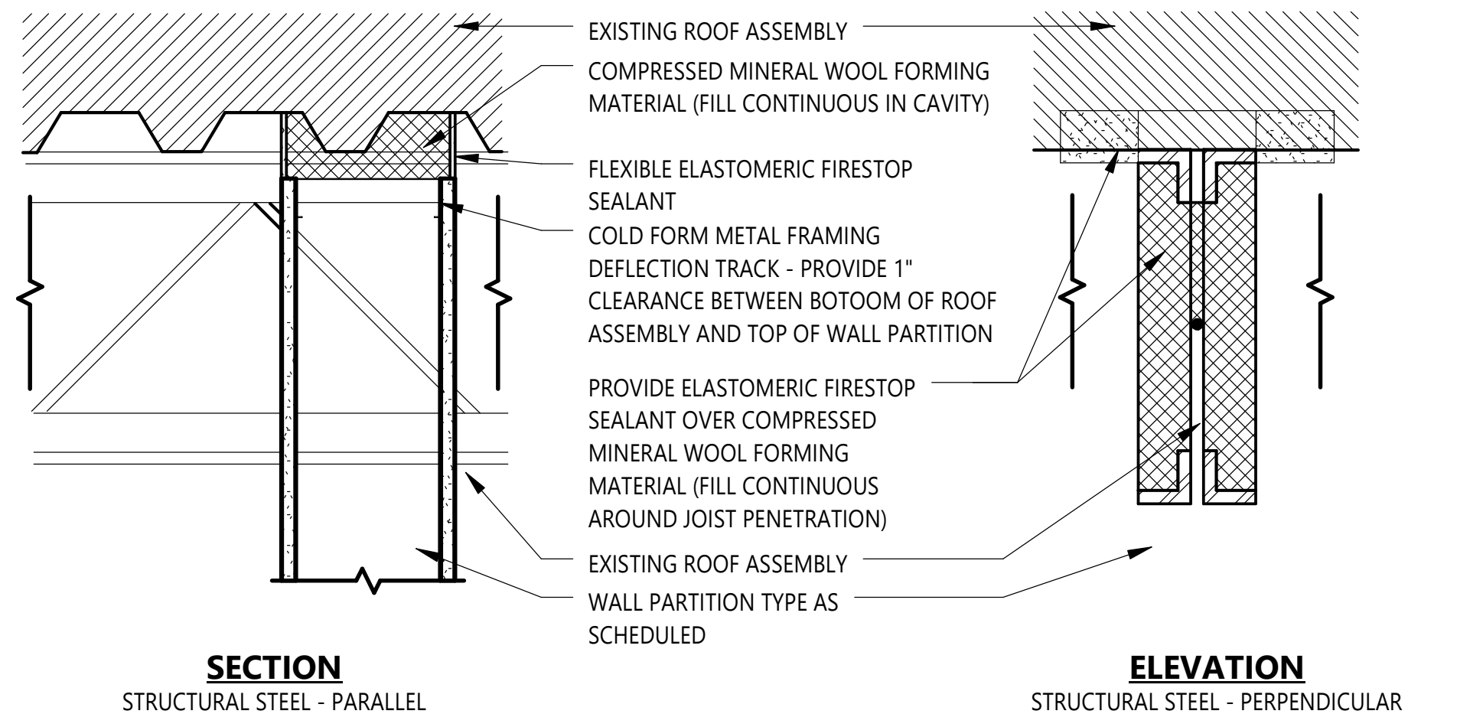


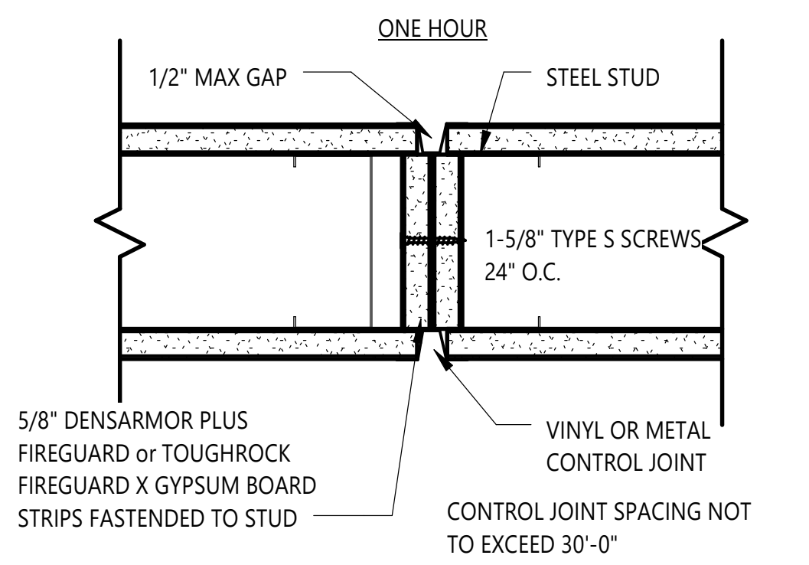
10 RATED WALL INTERSECTION
SCALE: 1" = 1'-0"


ACOUSTICAL SEALANT BACK & SIDES OR BOX AS NECESSARY FOR SOUND RATING AND SMOKE CONTROL
ONE OR TWO HOUR FIRE RATED OR SMOKE CONTROL PARTITION
2' - 0"
(PER UL)
TELEPHONE OR ELECTRICAL BOXES
ACOUSTICAL SEALANT AROUND BOX PENETRATION
MAX. 16 SQ. IN. MAX. OPN'G. 100 SQ. IN./100SF (PER UL)

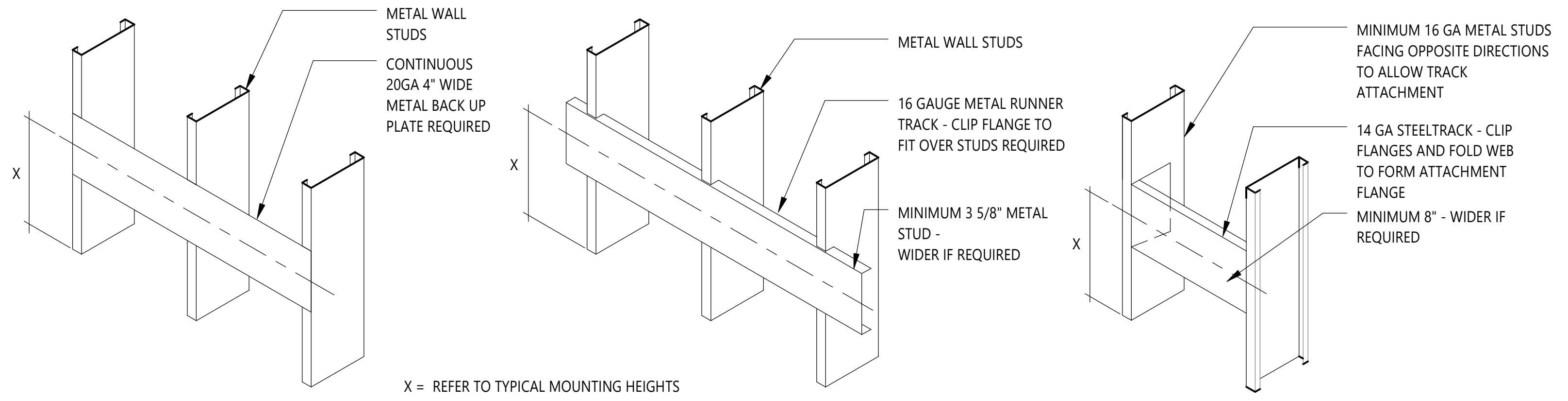
5 ADJ. ELEC OUTLETS - RATED
SCALE: 1 1/2" = 1'-0"


EXISTING ROOF ASSEMBLY
COMPRESSED MINERAL WOOL FORMING MATERIAL (FILL CONTINUOUS IN CAVITY)
FLEXIBLE ELASTOMERIC FIRESTOP SEALANT
COLD FORM METAL FRAMING DEFLECTION TRACK - PROVIDE 1" CLEARANCE BETWEEN BOTOOM OF ROOF ASSEMBLY AND TOP OF WALL PARTITION
PROVIDE ELASTOMERIC FIRESTOP SEALANT OVER COMPRESSED MINERAL WOOL FORMING MATERIAL (FILL CONTINUOUS AROUND JOIST PENETRATION)
EXISTING ROOF ASSEMBLY
WALL PARTITION TYPE AS SCHEDULED
SECTION
STRUCTURAL STEEL - PARALLEL
ELEVATION
STRUCTURAL STEEL - PERPENDICULAR

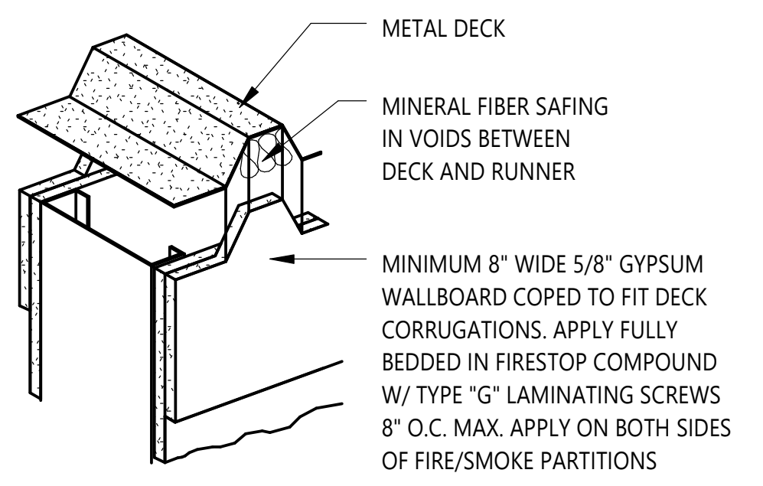
9 RATED WALL AT BAR JOIST
SCALE: 1 1/2" = 1'-0"


ONE HOUR
1/2" MAX GAP
STEEL STUD
1-5/8" TYPE S SCREWS 24" O.C.
5/8" DENSARMOR PLUS FIREGUARD or TOUGHROCK FIREGUARD X GYPSUM BOARD STRIPS FASTENDED TO STUD
VINYL OR METAL CONTROL JOINT
CONTROL JOINT SPACING NOT TO EXCEED 30'-0"

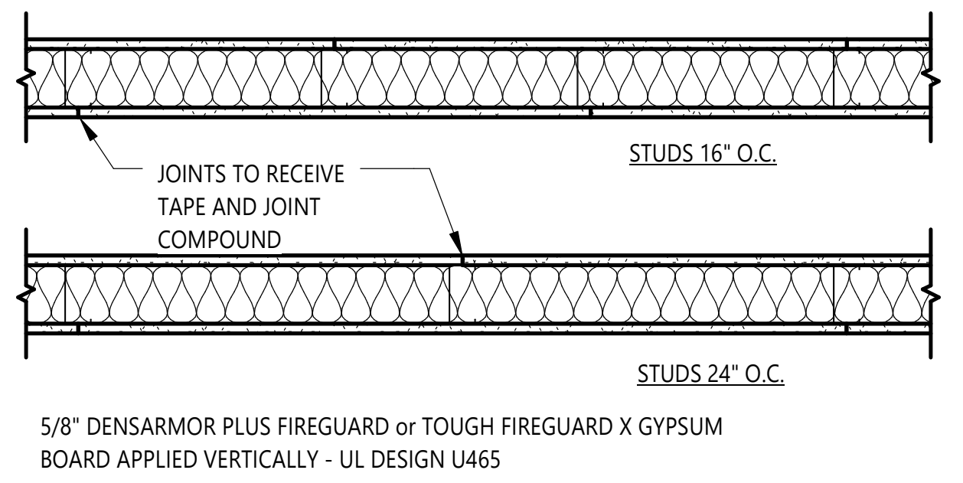
4 CONTROL JOINT DETAIL
SCALE: 3" = 1'-0"


METAL WALL STUDS
CONTINUOUS 20GA 4" WIDE METAL BACK UP PLATE REQUIRED
X
METAL WALL STUDS
16 GAUGE METAL RUNNER TRACK - CLIP FLANGE TO FIT OVER STUDS REQUIRED
MINIMUM 3 5/8" METAL STUD - WIDER IF REQUIRED
X
MINIMUM 16 GA METAL STUDS FACING OPPOSITE DIRECTIONS TO ALLOW TRACK ATTACHMENT
14 GA STEELTRACK - CLIP FLANGES AND FOLD WEB TO FORM ATTACHMENT FLANGE
MINIMUM 8" - WIDER IF REQUIRED
X
X = REFER TO TYPICAL MOUNTING HEIGHTS

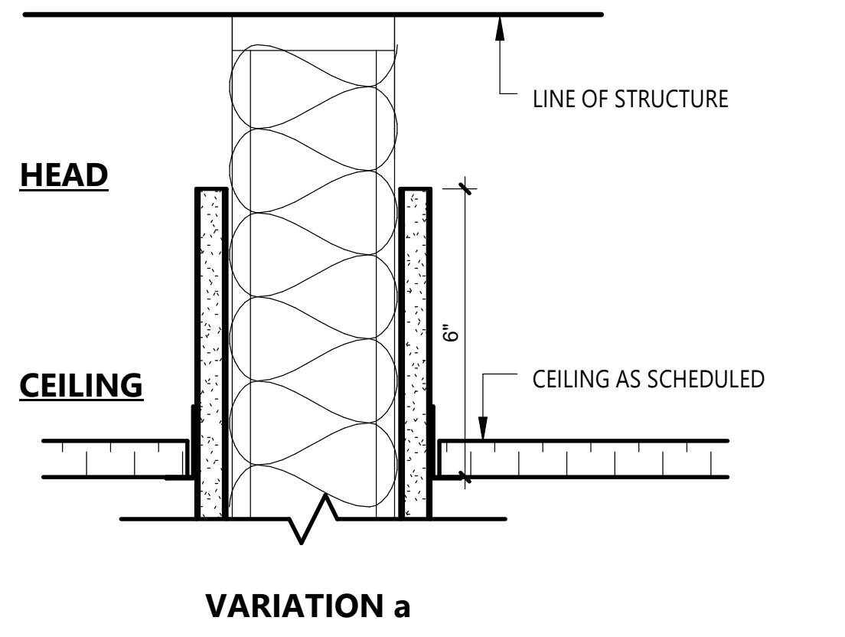
8 CONTINUOUS IN-WALL BACKING DETAILS
SCALE: 1" = 1'-0"


METAL DECK
MINERAL FIBER SAFING IN VOIDS BETWEEN DECK AND RUNNER
MINIMUM 8" WIDE 5/8" GYPSUM WALLBOARD COPED TO FIT DECK CORRUGATIONS. APPLY FULLY BEDDED IN FIRESTOP COMPOUND W/ TYPE "G" LAMINATING SCREWS 8" O.C. MAX. APPLY ON BOTH SIDES OF FIRE/SMOKE PARTITIONS

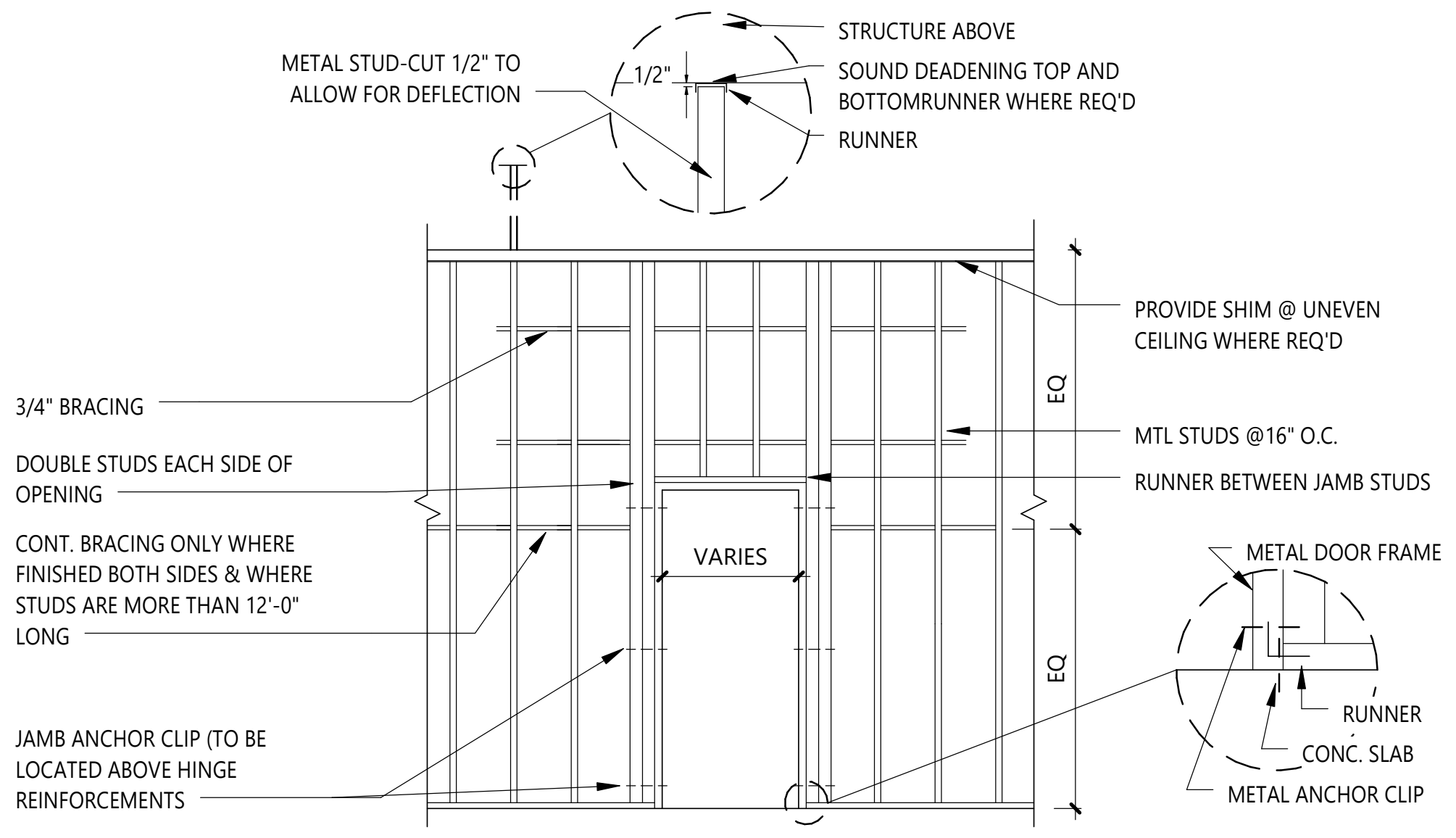
3 HEAD OF WALL DETAIL
SCALE: 3" = 1'-0"


JOINTS TO RECEIVE TAPE AND JOINT COMPOUND
STUDS 16" O.C.
STUDS 24" O.C.
5/8" DENSARMOR PLUS FIREGUARD or TOUGH FIREGUARD X GYPSUM BOARD APPLIED VERTICALLY - UL DESIGN U465

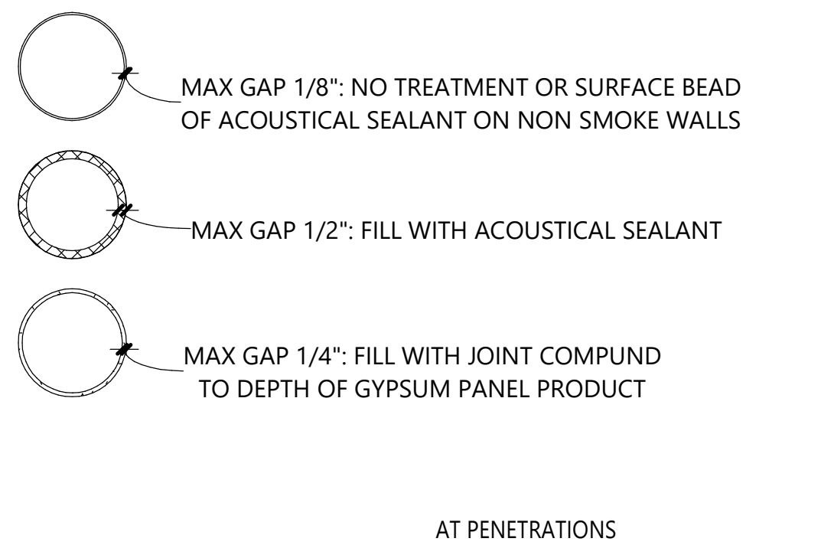
7 JOINT REQUIREMENTS - 1 HOUR
SCALE: 1" = 1'-0"



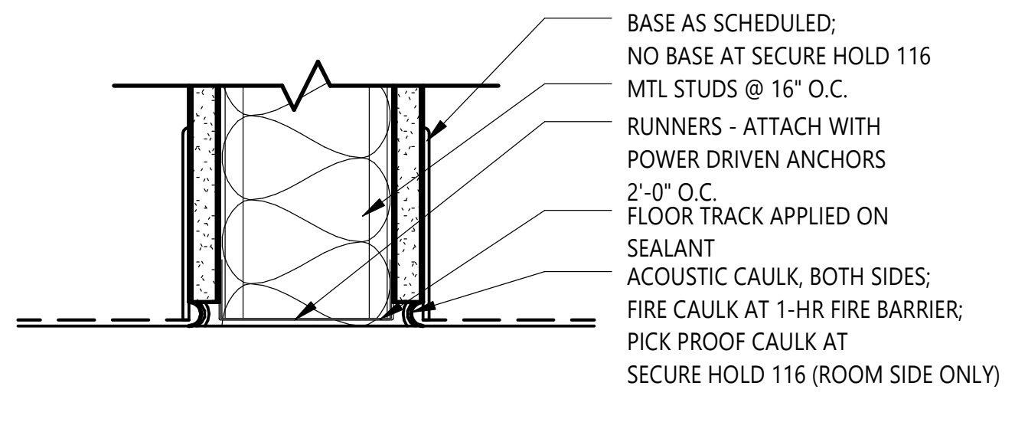
2 HEAD OF WALL DETAIL
SCALE: 3" = 1'-0"


METAL STUD-CUT 1/2" TO ALLOW FOR DEFLECTION
1/2"
STRUCTURE ABOVE
SOUND DEADENING TOP AND BOTTOMRUNNER WHERE REQ'D
RUNNER
PROVIDE SHIM @ UNEVEN CEILING WHERE REQ'D
3/4" BRACING
EQ
MTL STUDS @16" O.C.
DOUBLE STUDS EACH SIDE OF OPENING
RUNNER BETWEEN JAMB STUDS
CONT. BRACING ONLY WHERE FINISHED BOTH SIDES & WHERE STUDS ARE MORE THAN 12'-0" LONG
VARIES
METAL DOOR FRAME
EQ
JAMB ANCHOR CLIP (TO BE LOCATED ABOVE HINGE REINFORCEMENTS
RUNNER
CONC. SLAB
METAL ANCHOR CLIP

11 STL PARTITION FRAMING DETAILS
SCALE: 1/4" = 1'-0"


MAX GAP 1/8": NO TREATMENT OR SURFACE BEAD OF ACOUSTICAL SEALANT ON NON SMOKE WALLS
MAX GAP 1/2": FILL WITH ACOUSTICAL SEALANT
MAX GAP 1/4": FILL WITH JOINT COMPUND TO DEPTH OF GYPSUM PANEL PRODUCT
AT PENETRATIONS

6 RATED PARTITION DETAIL
SCALE: 1" = 1'-0"


BASE AS SCHEDULED; NO BASE AT SECURE HOLD 116
MTL STUDS @ 16" O.C.
RUNNERS - ATTACH WITH POWER DRIVEN ANCHORS 2'-0" O.C.
FLOOR TRACK APPLIED ON SEALANT
ACOUSTIC CAULK, BOTH SIDES; FIRE CAULK AT 1-HR FIRE BARRIER; PICK PROOF CAULK AT SECURE HOLD 116 (ROOM SIDE ONLY)

1 TYP FLOOR TRACK DETAIL
SCALE: 3" = 1'-0"

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THOMAS ALAN DOOLEY
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5-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19
△
△
△

TITLE
TYPICAL PARTITION DETAILS

SHEET
G003

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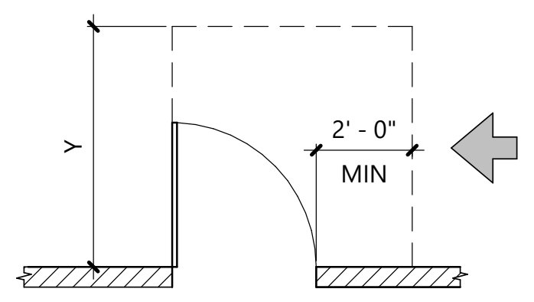
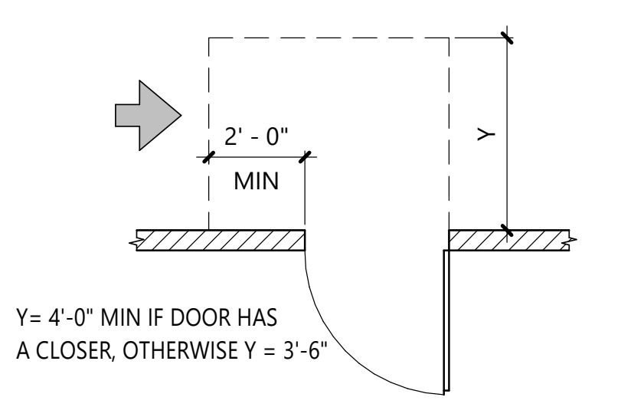
Y= 4'-6" MIN. IF DOOR HAS
A CLOSER, OTHERWISE
Y = 4'-0" MIN

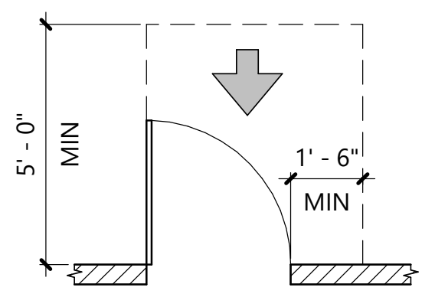


LATCH APPROACH, PULL SIDE



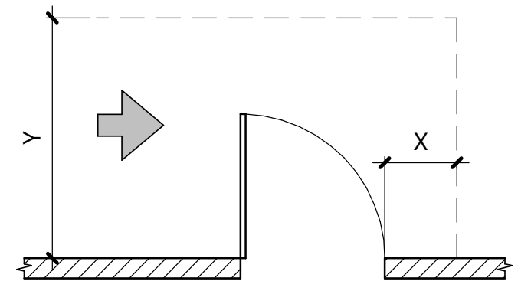
Y= 4'-0" MIN IF DOOR HAS
A CLOSER, OTHERWISE Y = 3'-6"

LATCH APPROACH, PUSH SIDE



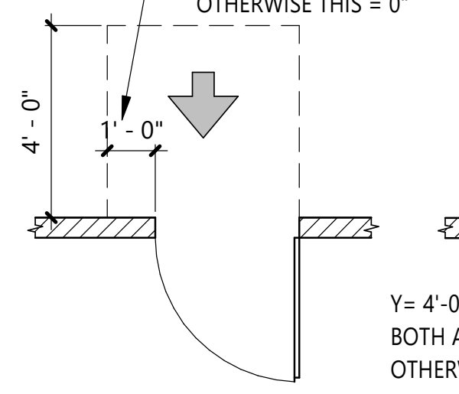
FRONT APPROACH, PULL SIDE

X= 3'-0" MIN. IF Y= 5'-0"
X= 3'-6" MIN. IF Y= 4'-6"

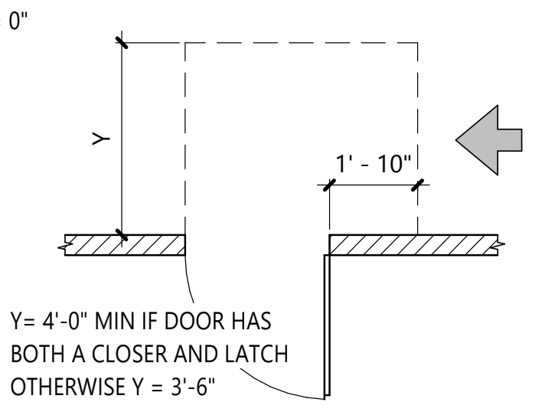


HINGE APPROACH, PULL SIDE

IF DOOR HAS BOTH
A CLOSER AND LATCH
OTHERWISE THIS = 0"

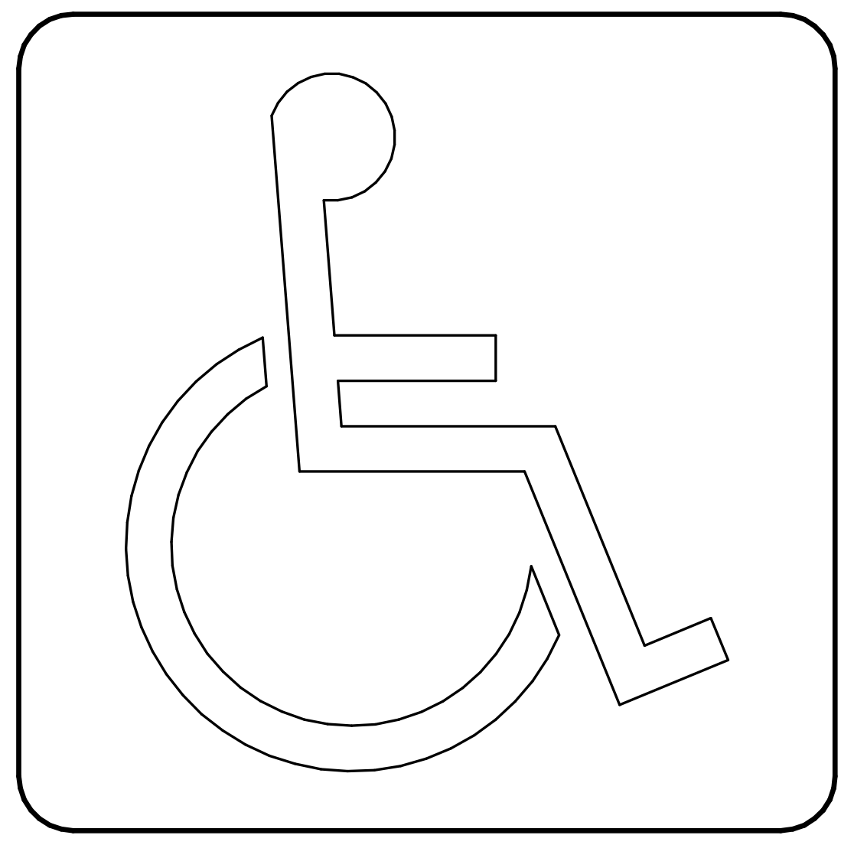


FRONT APPROACH, PUSH SIDE

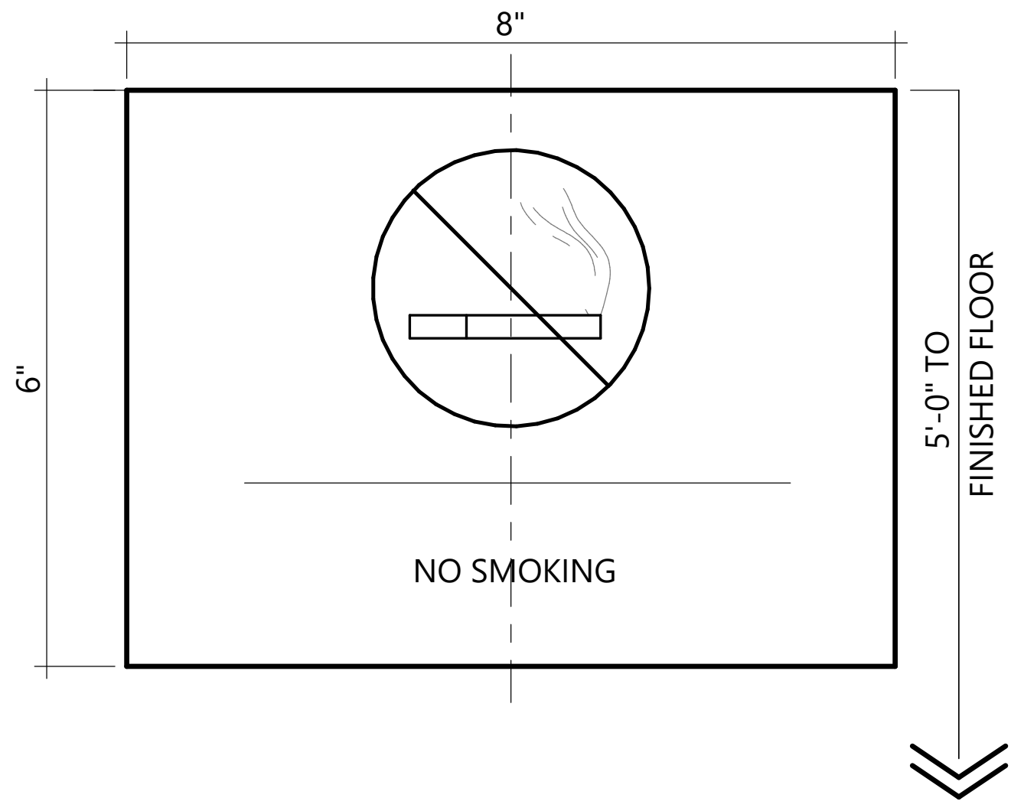


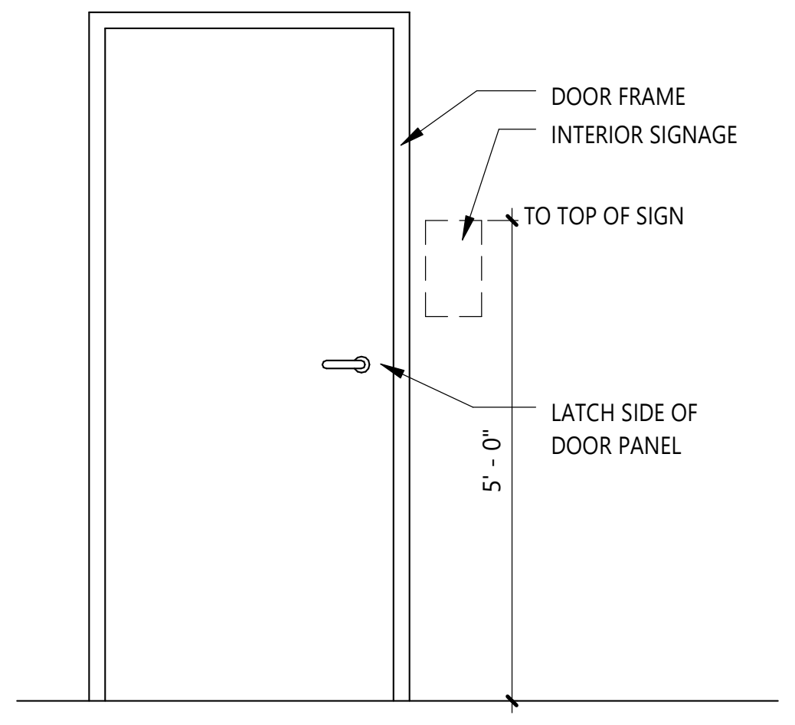
Y= 4'-0" MIN IF DOOR HAS
BOTH A CLOSER AND LATCH
OTHERWISE Y = 3'-6"

HINGE APPROACH, PUSH SIDE



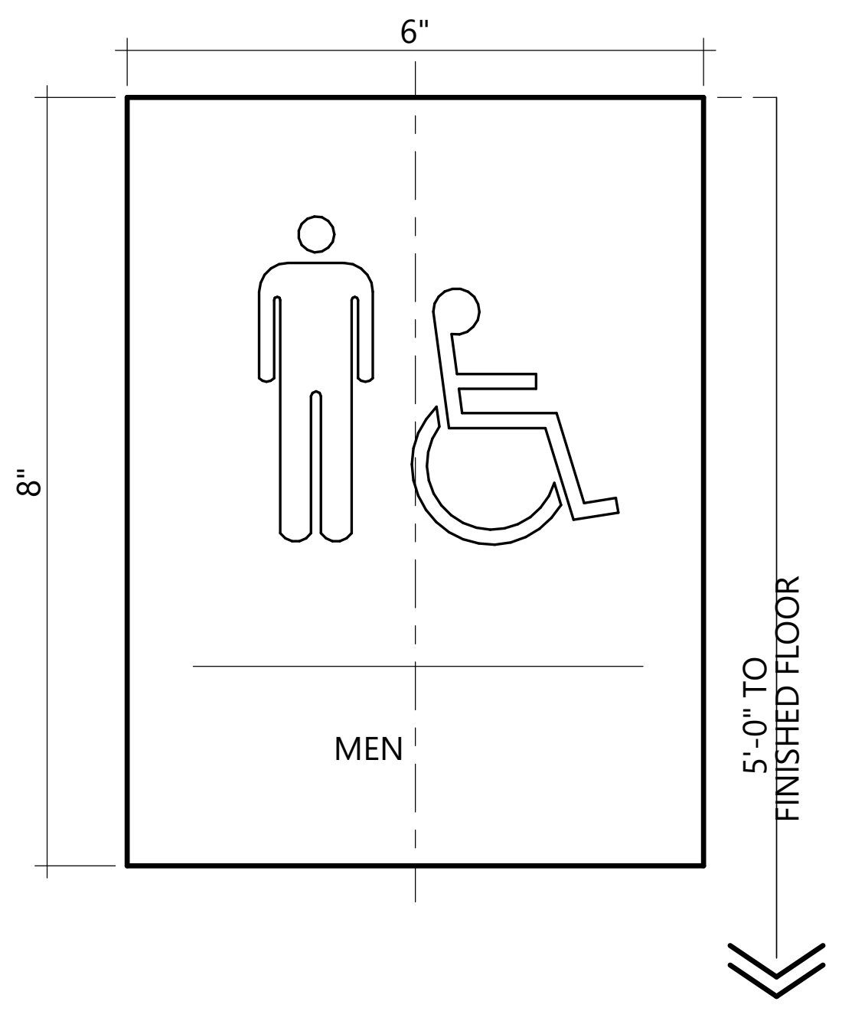
PROPORTIONS OF THE INTERNATIONAL
SYMBOL OF ACCESSIBILITY

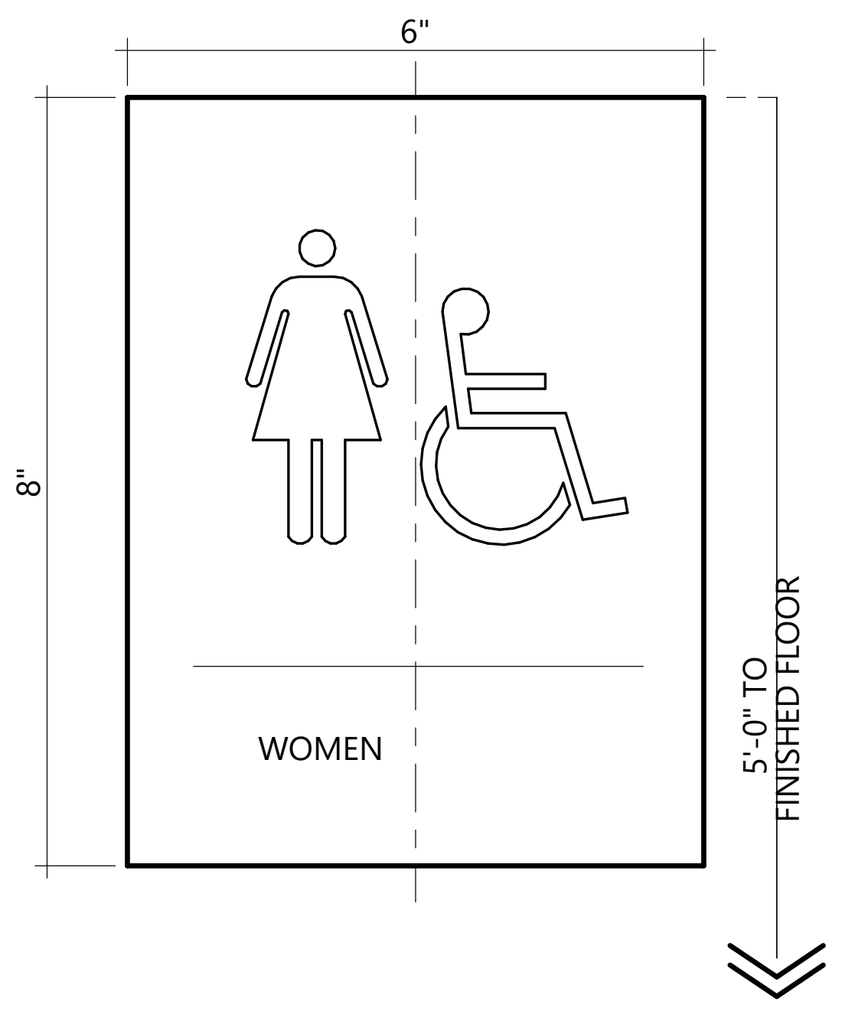


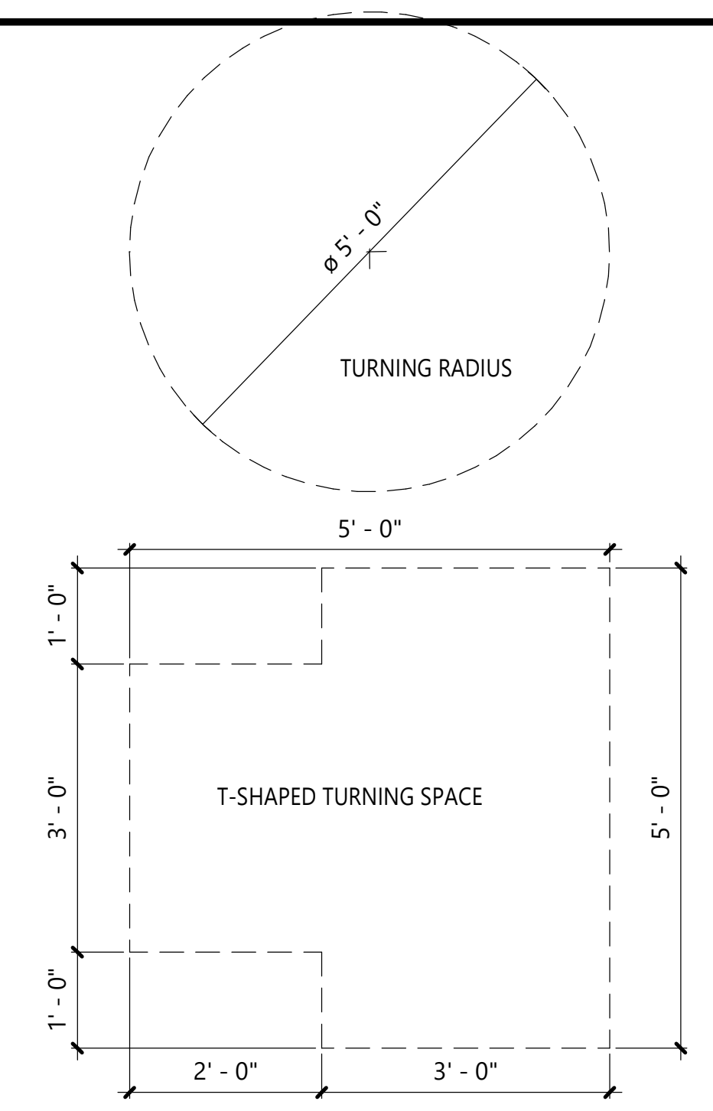


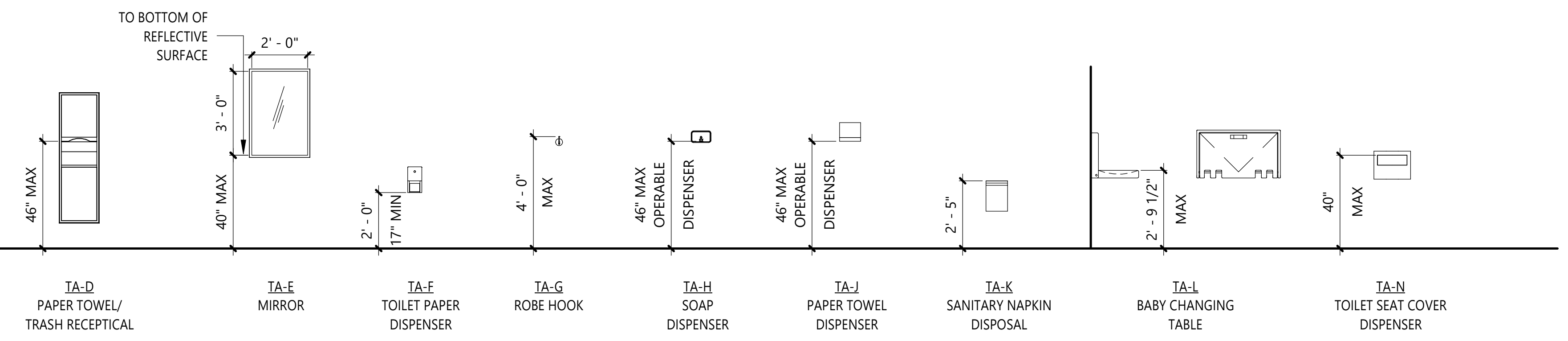
GENERAL NOTES:

1. PROVIDE INTERIOR SIGNAGE FOR EVERY DOOR/ROOM UNLESS NOTED OTHERWISE (REFER TO FINISH DRAWINGS).
2. ALL FINAL ROOM NAMES SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO SIGN FABRICATION.
3. AT LOCATIONS WHERE THERE ISN'T AVAILABLE WALL SPACE TO INSTALL THE INTERIOR SIGNAGE AS INDICATED, OBTAIN ARCHITECT'S INSTRUCTION PRIOR TO INSTALLATION.
4. AT LOCATIONS WHERE THERE ISN'T AVAILABLE WALL SPACE, BUT AVAILABLE WINDOW SPACE, ADHERE INTERIOR SIGNAGE WITH DOUBLE SIDED TAPE TO PROVIDE A PERMANENT INSTALLATION. PROVIDE A BLANK PANEL OF THE SAME COLOR, SIZE, AND MATERIAL FOR THE BACK SIDE OF THE SIGN TO BE INSTALLED ON THE GLASS.





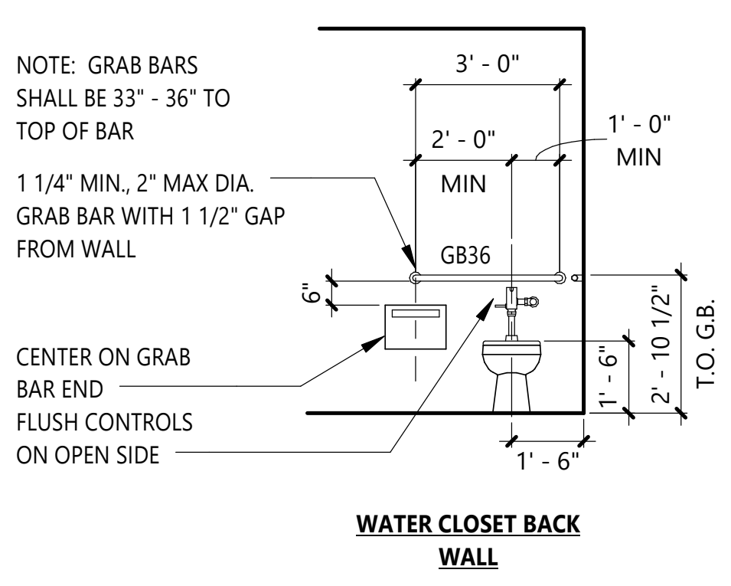




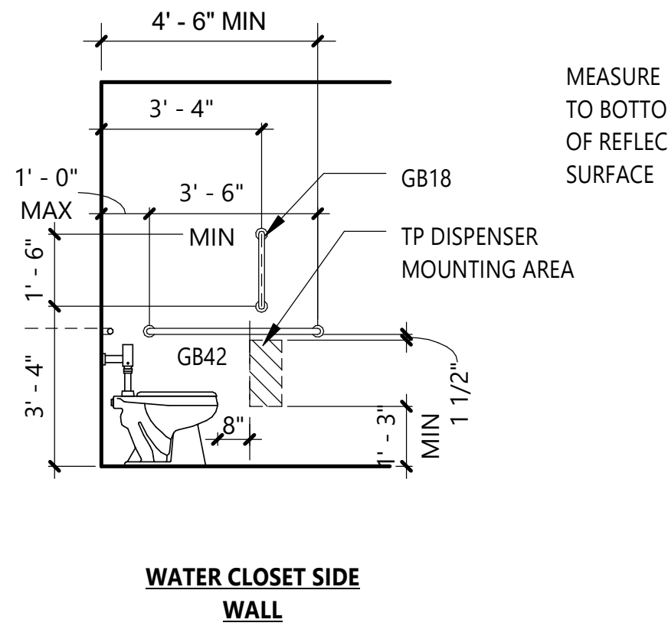
REFER TO TOILET ACCESSORY LEGEND & ENLARGED PLANS

TOILET ACCESSORY MOUNTING HEIGHTS

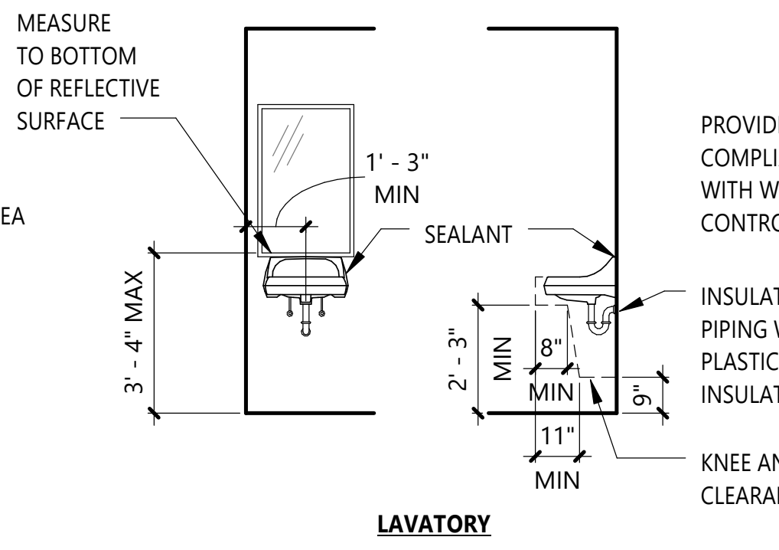
SCALE: 1/4" = 1'-0"



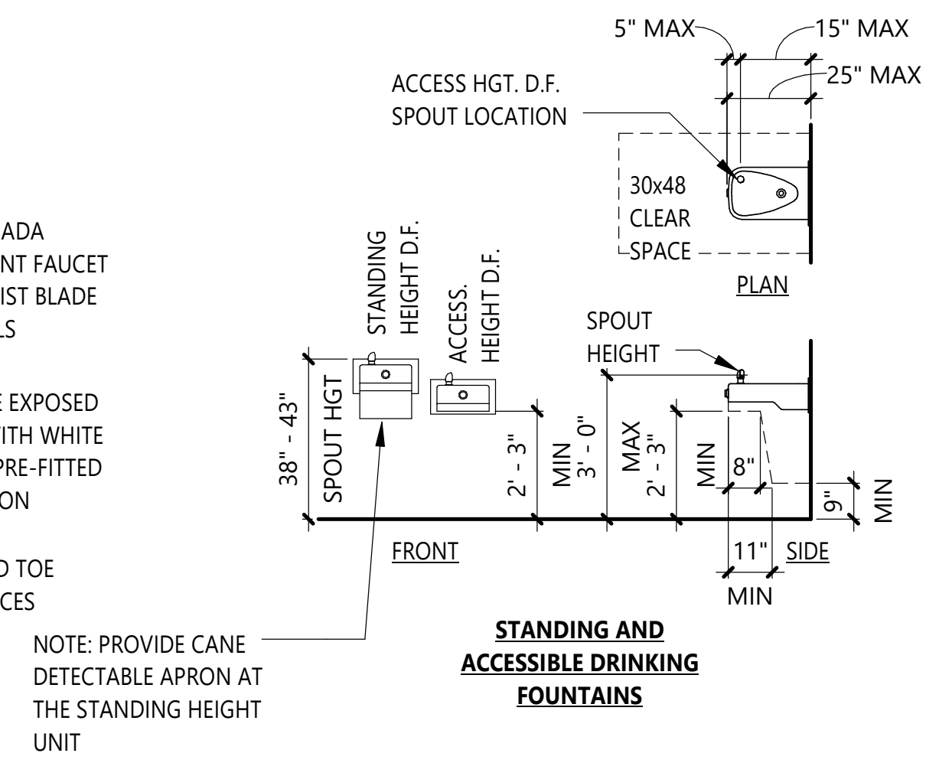
WATER CLOSET BACK
WALL



WATER CLOSET SIDE
WALL



LAVATORY



STANDING AND
ACCESSIBLE DRINKING
FOUNTAINS

TOILET ACCESSORY MOUNTING HEIGHTS

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

ACCESSIBLE SIGNAGE REQS

CHARACTER PROPORTIONS:

LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10, UTILIZING AN UPPER CASE 'X' FOR MEASUREMENT.

CHARACTER HEIGHT:

SEE LETTER AND NUMBER HEIGHT CHART BELOW
*EXCEPTION: CHARACTER HEIGHT SHALL BE 5/8" HIGH MINIMUM FOR BUILDING DIRECTORIES.

PICTOGRAMS:

WHERE PICTOGRAMS ARE REQUIRED, THEY SHALL HAVE A 6" MINIMUM SIZE MEASURED AT THE BORDER. WHERE TEXT DESCRIPTORS FOR PICTOGRAMS ARE REQUIRED, THEY SHALL COMPLY WITH THE TACTILE CHARACTER PROVISIONS OF RAISED CHARACTERS AND SYMBOLS, BRAILLE, AND LOCATION OF TACTILE SIGNAGE PORTIONS BELOW.

FINISH AND CONTRAST:

THE CHARACTERS, SYMBOLS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND BRAILLE, AND LOCATION OF TACTILE SIGNAGE PORTIONS BELOW. LIGHT BACKGROUND.

RAISED CHARACTERS AND SYMBOLS:

CHARACTERS AND SYMBOLS ON TACTILE SIGNS SHALL BE RAISED 1/32" MINIMUM. RAISED CHARACTERS AND SYMBOLS SHALL BE IN UPPERCASE CHARACTERS. RAISED CHARACTERS AND SYMBOLS SHALL BE 5/8" HIGH MINIMUM, AND 2" MAXIMUM. RAISED CHARACTERS AND SYMBOLS SHALL BE ACCOMPANIED BY BRAILLE IN ACCORDANCE WITH THE PROVISIONS OUTLINED BELOW.

BRAILLE:

BRAILLE SHALL BE SEPARATED 1/2" MINIMUM FROM THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. BRAILLE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS FOR ELEVATOR CONTROLS SHALL BE PLACED 3/16" MINIMUM BELOW THE CORRESPONDING CHARACTERS OR SYMBOLS. BRAILLE SHALL BE GRADE II AND SHALL CONFORM TO SPECIFICATION #800, NATIONAL LIBRARY SERVICE, LIBRARY OF CONGRESS.

LOCATION OF TACTILE SIGNAGE:

TACTILE SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT 60" ABOVE THE ADJACENT FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. IN LOCATIONS HAVING DOUBLE DOORS, TACTILE SIGNS SHALL BE MOUNTED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.

GENERAL NOTES:

ANY ADDITIONAL TEXT REQUIRED DUE TO LOCAL ORDINANCES (FINES FOR PARKING IN ACCESSIBLE SPACES, ETC.) SHALL COMPLY WITH THE SIGNAGE REQUIREMENTS ABOVE.

ALL INTERIOR SIGNAGE WITHIN THE ASC SHALL CONFORM TO THE REQUIREMENTS OF ADA 2010 AND ANY OTHER STATE OR LOCAL APPLICABLE CODES.

LETTER AND NUMBER HEIGHTS

HEIGHT ABOVE FLOOR/ GROUND:	**MINIMUM CHARACTER HEIGHT:**
GREATER THAN 80" (6'-8") AFF	3"
GREATER THAN 60" (5'-0") AFF BUT LESS THAN 80" (6'-8") AFF	2"
GREATER THAN 48" (4'-0") AFF BUT LESS THAN 60" (5'-0") AFF	1"

NOTES

1. SEE SPECIFICATIONS FOR MANUFACTURERS INFORMATION ON ALL TOILET ACCESSORIES.
2. ALL TOILET LOCATIONS, WHETHER NOTED OR NOT, SHALL BE PROVIDED WITH THE FOLLOWING UNLESS OTHERWISE NOTED:
   a) ONE MIRROR
   b) ONE TOILET PAPER DISPENSER
   c) ONE ROBE HOOK - MOUNTED BEHIND STALL DOORS.
   d) ONE SEAT COVER DISPENSER

TOILET ACCESSORY LEGEND

TYPE	DESCRIPTION
TA-A1	WATER CLOSET - FLOOR MOUNTED
TA-B	URINAL - WALL MOUNTED
TA-D	PAPER TOWEL / TRASH RECEPTICAL
TA-E	MIRROR
TA-F1	TOILET PAPER DISPENSER
TA-GB18	18" GRAB BAR - VERTICAL
TA-GB42	42" GRAB BAR
TA-H	SOAP DISPENSER
TA-J	PAPER TOWEL DISPENSER
TA-K	SANITARY NAPKIN DISPOSAL
TA-L	BABY CHANGING STATION
TA-N	SEAT COVER DISPENSER

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PROJECT #
217026.05
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2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION
DOCUMENTS

THOMAS ALAN DOOLEY
A-7733

WILLIAM E. HEREFORD III

02/15/19

DATES OF ISSUANCE

TITLE
ADA INFORMATION

SHEET
G004

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ENERGY CODE SUMMARY

SLAB-ON-GRADE FLOOR ASSEMBLY:

REQUIRED PER IECC 2012 AMENDED TABLE C402.2:
UNHEATED SLAB, R-10 EXTENDING 24" BELOW SLAB

PROVIDED:
R-10 EXTRUDED POLYSTYRENE 2" RIGID INSULATION EXTENDING 24" MIN. BELOW SLAB

EXTERIOR WALL ASSEMBLY:

REQUIRED PER IECC 2012 AMENDED TABLE C402.2:
METAL-FRAMED BUILDING, R-13 + R-7.5 C.I.

PROVIDED:
R-21 FIBERGLASS BATT 51/2" INSUL. IN STUD CAVITY W/ CONTINUOUS MIN. R-10 EXTRUDED POLYSTYRENE 2" MIN. RIGID EXTERIOR INSULATION

ROOF ASSEMBLY:

REQUIRED PER IECC 2012 AMENDED TABLE 402.2:
INSUL. ENTIRELY ABOVE DECK, R-25 C.I.

PROVIDED:
FLAT ROOF - CONTINUOUS R-25 POLYISOCYANURATE 4" MIN. RIGID INSULATION

FENESTRATION:

REQUIRED PER IECC 2012 AMENDED TABLE C402.3:
FIXED FENESTRATION U-0.38 MAX.
ENTRANCE DOORS U-0.77 MAX.
SHGC (ALL COMPONENTS) 0.40 MAX.

PROVIDED:
FIXED WINDOW UNITS = SOLARBAN 60 (2) - SOLARBRONZE U-0.29
FIXED CURTAIN WALL SYSTEM = SOLARBAN 60 (2) - SOLARBRONZE U-0.29
ENTRANCE DOORS = SOLARBAN 60 (2) - SOLARBRONZE U-0.29
SHGC (ALL COMPONENTS) 0.27 MAX.

CODE SUMMARY

PROPERTY LOCATION:

2100 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063

ZONING:

LAND USE: PUBLIC / SEMI-PUBLIC

ZONING DISTRICT: CP-2

USE/OCCUPANCY CLASSIFICATION:

B (BUSINESS) - PER 2012 IBC SECTION 304.1
NEW BUSINESS OCCUPANCY PER 2012 NFPA 101 CHAPTER 38

OCCUPANCY SEPARATION:

SINGLE BUSINESS OCCUPANCY - NO FIRE SEPARATION REQUIRED.

CONSTRUCTION TYPE:

STEEL STRUCTURAL FRAME; OPEN WEB BAR JOISTS; CONCRETE FLOOR SLAB OVER METAL DECK; METAL STUD FRAMED EXTERIOR WALLS AND INTERIOR PARTITIONS

II B - NONCOMBUSTIBLE PER 2012 IBC TABLE 601 / SECTION 602.2

HEIGHT & AREA LIMITATIONS:

ALLOWABLE PER 2012 IBC TABLE 503:

TYPE II-B CONSTRUCTION, B USE GROUP
STORIES: 3 STORIES
AREA: 23,000 SF PER STORY

PROVIDED:
3 STORIES @ 18,161 SQFT / STORY

LIFE SAFETY SYSTEMS:

FIRE DETECTION, ALARM, AND COMMUNICATION SYSTEM PROVIDED PER 2012 NFPA 101 CHAPTER 9.6

SUPERVISED AUTOMATIC SPRINKLER SYSTEM PROVIDED PER 2012 NFPA 101 CHAPTER 9.7.1

EXIT ACCESS:

ALLOWABLE PER 2012 IBC SECTION 1014.3: ALLOWABLE PER 2012 IBC SECTION 1016.2
100' COMMON PATH (TABLE 1014.3) 300' TRAVEL DISTANCE (TABLE 1016.2)

ALLOWABLE PER 2012 NFPA 101 CHAPTER 38.2.5.3.1: ALLOWABLE PER 2012 NFPA 101 CHAPTER 38.2.6.3:
100' COMMON PATH (TABLE A.7.6) 300' TRAVEL DISTANCE (TABLE A.7.6)

ALLOWABLE PER 2012 NFPA 101 CHAPTER 20.2.6.1: ALLOWABLE PER 2012 NFPA 101 CHAPTER 20.2.6.2:
100' COMMON PATH (TABLE A.7.6) 200' TRAVEL DISTANCE (TABLE A.7.6)

PROVIDED:
LESS THAN 100' @ BOTH FLOORS (CORE & SHELL ONLY)
[TRAVEL DISTANCE PER PHASE 2 - INTERIOR FIT-OUT TO BE DETERMINED]

EXIT ACCESS CORRIDOR WIDTH:

ALLOWABLE PER IBC 2012 SECTION 1005.3.2:
22.2" = 0.15"/PERSON x # PEOPLE @ FLOOR 1
22.2" = 0.15"/PERSON x # PEOPLE @ FLOOR 2
OR 44" MIN. (TABLE 1018.2)

ALLOWABLE PER NFPA 101 2012 CHAPTER 38.2.3.2:
44"

PROVIDED:
72" (6'-0") CORRIDOR WIDTH PROVIDED ON ALL FLOORS

EXIT ACCESS CORRIDOR RATING:

ALLOWABLE PER 2012 IBC TABLE 1018.1
NO RATING REQUIRED W/ SPRINKLER SYSTEM

ALLOWABLE PER 2012 NFPA 101 CHAPTER 20.3.6.1 & CHAPTER 38.3.6.1(3)
NO RATING REQUIRED W/ SPRINKLER SYSTEM

PROVIDED:
NO RATING

ELEVATOR LOBBY:

NOT REQUIRED PER 2012 IBC SECTION 713.14.1 EXCEPTION 4
ELEVATOR LOBBY NOT REQUIRED WITH SPRINKLERS

EXIT SEPARATION DISTANCE:

ALLOWABLE PER 2012 NFPA 101 SECTION 7.5.1.3.3:
234'-6" DIAGONAL X 1/3 MIN. ALLOWABLE = 78'-2" MIN.

PROVIDED:
143'-3"

EXIT STAIR WIDTH:

ALLOWABLE PER 2012 IBC SECTION 1005.3.1:
205 MAX. OCCUPANTS / STORY @ 0.20" PER OCCUPANT = 41" EGRESS WIDTH
41" EGRESS WIDTH DIVIDED BY TWO STAIRWAYS = 20.5" PER STAIRWAY
REQUIRED 44" MIN. (SECTION 1009.4)

ALLOWABLE PER 2012 NFPA 101 TABLE 7.3.3.1:
205 MAX. OCCUPANTS / STORY @ 0.30" PER OCCUPANT = 61.5" EGRESS WIDTH
61.5" EGRESS WIDTH DIVIDED BY TWO STAIRWAYS = 30.75" PER STAIRWAY
REQUIRED 44" MIN. (TABLE 7.2.2.2.1.2(B) FOR LESS THAN 2,000 PERSONS):

PROVIDED:
48" @ BOTH EGRESS STAIRS

EXIT STAIR ENCLOSURE RATING:

ALLOWABLE PER 2012 IBC SECTION 1022.2
1-HOUR CONNECTING FOUR STORIES OR LESS

ALLOWABLE PER 2012 NFPA 101 CHAPTER A.7.1.3.2.1(3)
1-HOUR CONNECTING FOUR STORIES OR LESS

PROVIDED:
1-HOUR

SHAFT ENCLOSURE RATING:

ALLOWABLE PER 2012 IBC SECTION 713.4
1-HOUR CONNECTING FOUR STORIES OR LESS

ALLOWABLE PER 2012 NFPA 101 CHAPTER 8.6.5(1)
1-HOUR CONNECTING FOUR STORIES OR LESS

PROVIDED:
1-HOUR

AREA OF REFUGE / ACCESSIBLE MEANS OF EGRESS:

PROVIDED PER 2012 IBC SECTION 1007.2.1, 1007.3 EXCEPTIONS 1 & 2, 1007.4

PROVIDED PER 2012 NFPA 101 CHAPTER 7.2.12.1.1 & 7.2.12.2.4

PLUMBING FIXTURE REQUIREMENTS:

ALLOWABLE PER 2012 IBC TABLE 2902.1

FLOOR 1 OCCUPANCY = 91 MEN / 91 WOMEN (182 TOTAL)
WATER CLOSETS REQUIRED = 2 MEN / 2 WOMEN
(EACH GENDER: 1 PER 25 FIRST 50; 1 PER 50 REMAINDER)
LAVATORIES REQUIRED = 2 MEN / 2 WOMEN
(EACH GENDER: 1 PER 40 FIRST 80; 1 PER 80 REMAINDER)
DRINKING FOUNTAINS REQUIRED = 2
(1 PER 100)
SERVICE SINKS REQUIRED = 1

FLOOR 2 OCCUPANCY = 91 MEN / 91 WOMEN (182 TOTAL)
WATER CLOSETS REQUIRED = 2 MEN / 2 WOMEN
(EACH GENDER: 1 PER 25 FIRST 50; 1 PER 50 REMAINDER)
LAVATORIES REQUIRED = 2 MEN / 2 WOMEN
(EACH GENDER: 1 PER 40 FIRST 80; 1 PER 80 REMAINDER)
DRINKING FOUNTAINS REQUIRED = 2
(1 PER 100)
SERVICE SINKS REQUIRED = 1

PROVIDED:
FLOOR 1
WATER CLOSETS = 3 MEN / 3 WOMEN (10 UNISEX PER TENANT BUILD-OUT)
LAVATORIES = 3 MEN / 3 WOMEN (10 UNISEX PER TENANT BUILD-OUT)
DRINKING FOUNTAINS = 2 (2 PER TENANT BUILD-OUT)
SERVICE SINKS = 1

FLOOR 2
WATER CLOSETS = 3 MEN / 3 WOMEN (6 UNISEX PER TENANT BUILD-OUT)
LAVATORIES = 3 MEN / 3 WOMEN (6 UNISEX PER TENANT BUILD-OUT)
DRINKING FOUNTAINS = 2 (2 PER TENANT BUILD-OUT)
SERVICE SINKS = 1

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15-19

WILLIAM E. HEREFORD III

02/15/19

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TITLE
LIFE SAFETY CODE DATA

SHEET
G100

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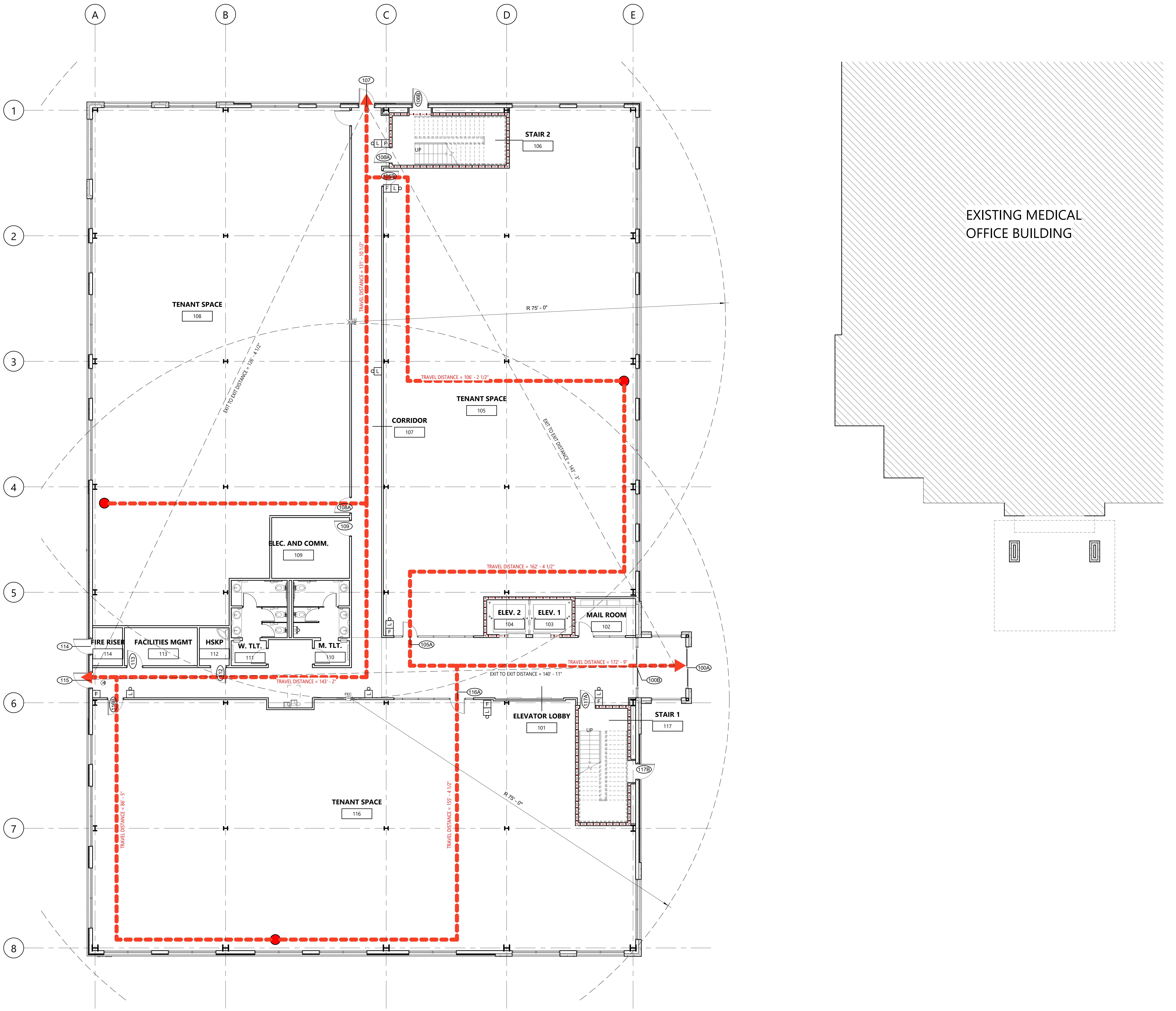

A
B
C
D
E
1
2
3
4
5
6
7
8
107
106B
STAIR 2
106
UP
106A
105B
TENANT SPACE
108
EXIT TO EXIT DISTANCE = 126' - 4 1/2"
TRAVEL DISTANCE = 131' - 10 1/2"
FEC
R 75' - 0"
TRAVEL DISTANCE = 106' - 2 1/2"
TENANT SPACE
105
CORRIDOR
107
EXIT TO EXIT DISTANCE = 143' - 3"
108A
109
ELEC. AND COMM.
109
TRAVEL DISTANCE = 162' - 4 1/2"
ELEV. 2
104
ELEV. 1
103
MAIL ROOM
102
114
FIRE RISER
114
FACILITIES MGMT
113
113
HSKP
112
W. TLT.
111
M. TLT.
110
105A
TRAVEL DISTANCE = 172' - 9"
100A
115
112
TRAVEL DISTANCE = 143' - 2"
EXIT TO EXIT DISTANCE = 140' - 11"
100B
116B
FEC
116A
117A
ELEVATOR LOBBY
101
STAIR 1
117
UP
117B
TENANT SPACE
116
TRAVEL DISTANCE = 86' - 5"
TRAVEL DISTANCE = 155' - 4 1/2"
R 75' - 0"
EXISTING MEDICAL OFFICE BUILDING

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

LIFE SAFETY NOTES

1. THIS PLAN IS FOR LIFE SAFETY INFORMATION ONLY.
2. BUILDING IS FULLY SPRINKLERED IN ACCORDANCE WITH NFPA 13 AND IS PROTECTED WITH A SUPERVISED AUTOMATIC SMOKE DETECTION SYSTEM.
3. WALL TYPES ARE DETAILED ON G002 AND INDICATED ON THE DIMENSIONED FLOOR PLAN ON A121.
4. REFER TO THIS DRAWING FOR MEANS OF EGRESS
5. REFER TO THIS DRAWING FOR DOOR CAPACITIES.
6. FINAL LOCATION OF FAAP PANEL TO BE COORDINATED WITH FIRE MARSHAL.

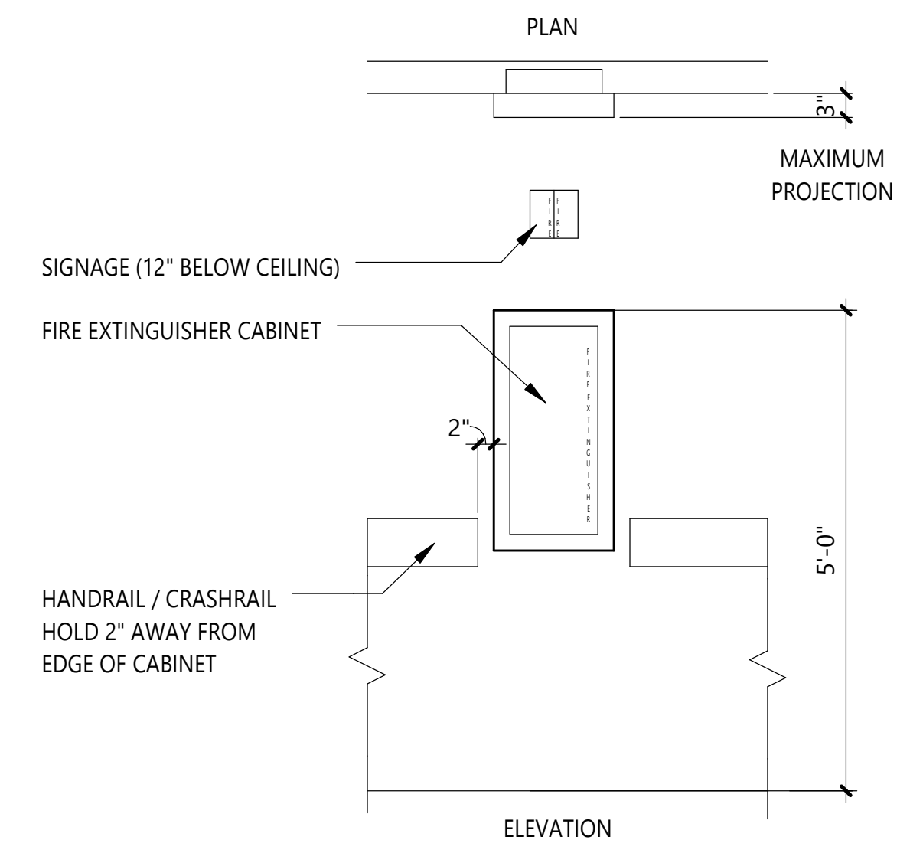
PARTITION FIRE RATING LEGEND

S — S — S	SMOKE PARTITION
◆ — ◆ — ◆ — ◆ — ◆	1-HR FIRE BARRIER
◆S — ◆S — ◆S	1-HR FIRE/SMOKE BARRIER
◆◆ — ◆◆ — ◆◆	2-HR FIRE BARRIER
◆◆S — ◆◆S — ◆◆S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

LIFE SAFETY LEGEND

FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
▲	EXIT
⊗	ILLUMINATED EXIT SIGN
F	FIRE ALARM - MANUAL PULL STATION
L○	FIRE ALARM - STROBE / CHIME
L	FIRE ALARM - STROBE
Ⓓ	SMOKE DETECTOR
MHO	MAGNETIC HOLD OPEN
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANUNCIATOR PANEL
●	EXTERIOR EMERGENCY LIGHTING

FIRE EXTINGUISHER DETAILS



FIRE EXTINGUISHER NOTES

1. EXTINGUISHER LEGEND:
10:ABC CLASS DRY CHEMICAL, MULTIPURPOSE EXTINGUISHER

2. EXTINGUISHERS MUST BE LOCATED, INSTALLED, SIZED AND MAINTAINED ACCORDING TO NFPA 10.

3. EXTINGUISHERS (LESS THAN 40 LBS) MUST BE INSTALLED SO THAT THE HANDLE OF THE EXTINGUISHER IS NOT MORE THAN 60" ABOVE THE FLOOR.

4. EXTINGUISHERS (OVER 40 LBS) MUST BE INSTALLED SO THAT THE TOP OF THE EXTINGUISHER HANDLE IS NOT MORE THAN 42" ABOVE THE FLOOR.

5. THERE MUST BE A CLEARANCE OF AT LEAST 4" BETWEEN THE BOTTOM OF THE EXTINGUISHER AND THE FLOOR.

6. ALL EXTINGUISHERS MUST BE PLACED FACING OUTWARD AND BE PROVIDED WITH SIGNAGE THAT CAN BE READ FROM 25 FEET AWAY. LOCATE 12" BELOW CEILING TO TOP OF PLACARD.

7. LOCKED OR BREAK-GLASS TYPE CABINETS ARE NOT ACCEPTABLE. CABINET DOOR SHALL CLOSE WITH A CATCH OR LATCH MECHANISM. (NFPA-10)

0' 4' 8' 16' 32'

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WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
LIFE SAFETY PLAN
LEVEL 1

SHEET
G101

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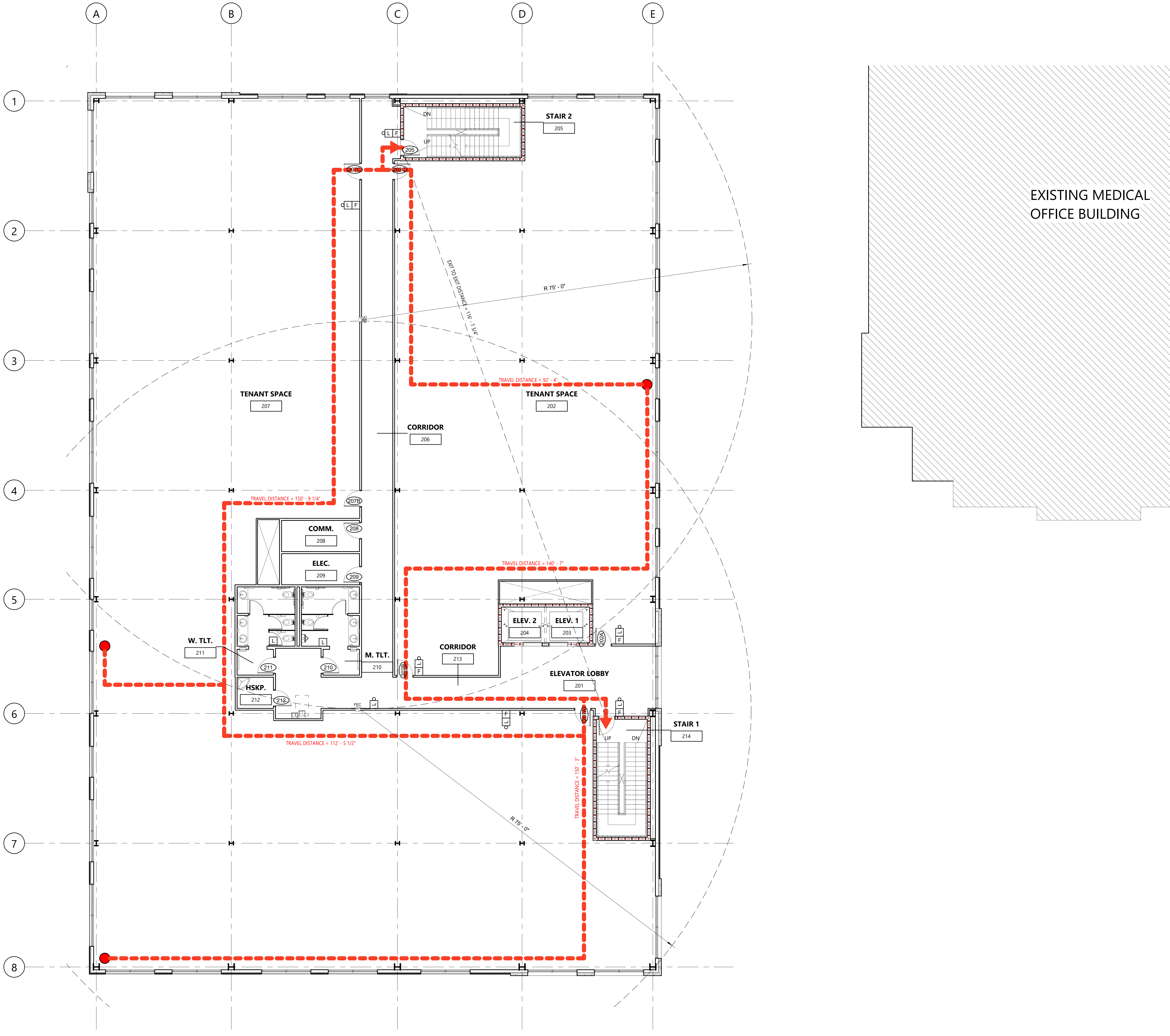

1 LEVEL 2 - LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

LIFE SAFETY NOTES

1. THIS PLAN IS FOR LIFE SAFETY INFORMATION ONLY.
2. BUILDING IS FULLY SPRINKLERED IN ACCORDANCE WITH NFPA 13 AND IS PROTECTED WITH A SUPERVISED AUTOMATIC SMOKE DETECTION SYSTEM.
3. WALL TYPES ARE DETAILED ON G002 AND INDICATED ON THE DIMENSIONED FLOOR PLAN ON A121.
4. REFER TO THIS DRAWING FOR MEANS OF EGRESS
5. REFER TO THIS DRAWING FOR DOOR CAPACITIES.
6. FINAL LOCATION OF FAAP PANEL TO BE COORDINATED WITH FIRE MARSHAL.

PARTITION FIRE RATING LEGEND

S——S——S	SMOKE PARTITION
♦–♦–♦–♦–♦	1-HR FIRE BARRIER
♦S——♦S——♦S	1-HR FIRE/SMOKE BARRIER
♦♦——♦♦——♦♦	2-HR FIRE BARRIER
♦♦S–♦♦S–♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

LIFE SAFETY LEGEND

FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
▲	EXIT
⊗	ILLUMINATED EXIT SIGN
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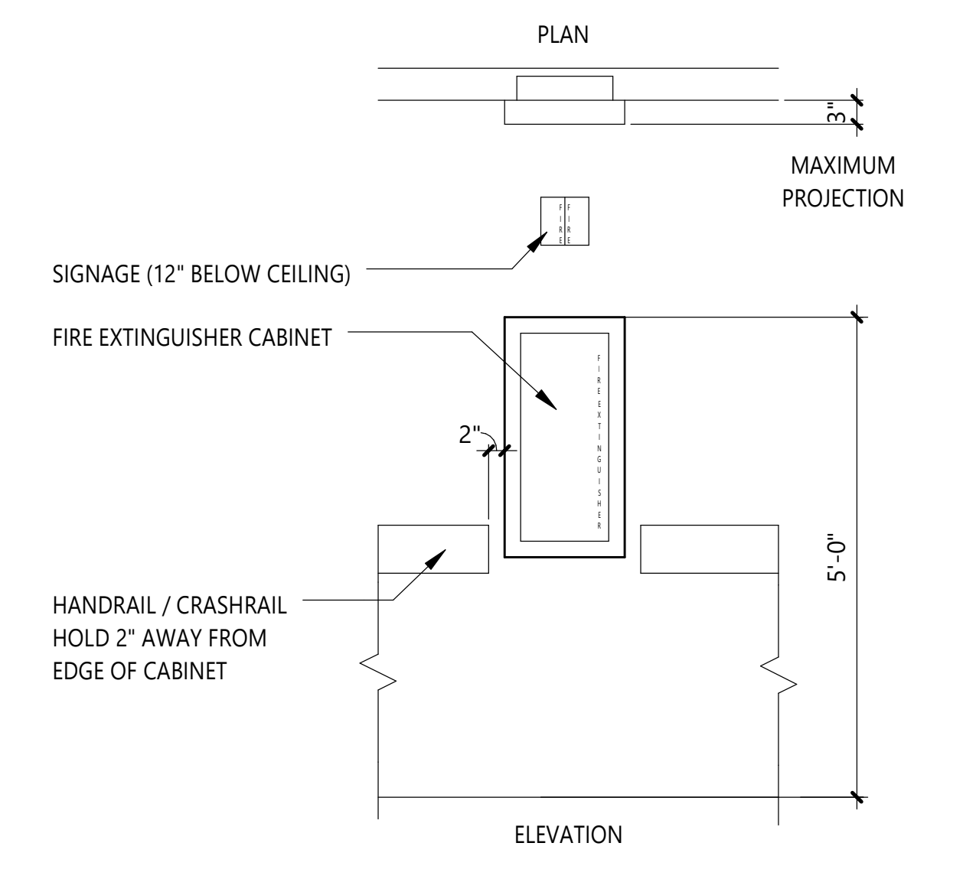
Ⓓ	SMOKE DETECTOR
MHO	MAGNETIC HOLD OPEN
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANUNCIATOR PANEL
●	EXTERIOR EMERGENCY LIGHTING

FIRE EXTINGUISHER DETAILS


PLAN
3"
MAXIMUM PROJECTION
SIGNAGE (12" BELOW CEILING)
FIRE EXTINGUISHER CABINET
2"
5'-0"
HANDRAIL / CRASHRAIL HOLD 2" AWAY FROM EDGE OF CABINET
ELEVATION

FIRE EXTINGUISHER NOTES

1. EXTINGUISHER LEGEND:
10:ABC CLASS DRY CHEMICAL, MULTIPURPOSE EXTINGUISHER

2. EXTINGUISHERS MUST BE LOCATED, INSTALLED, SIZED AND MAINTAINED ACCORDING TO NFPA 10.

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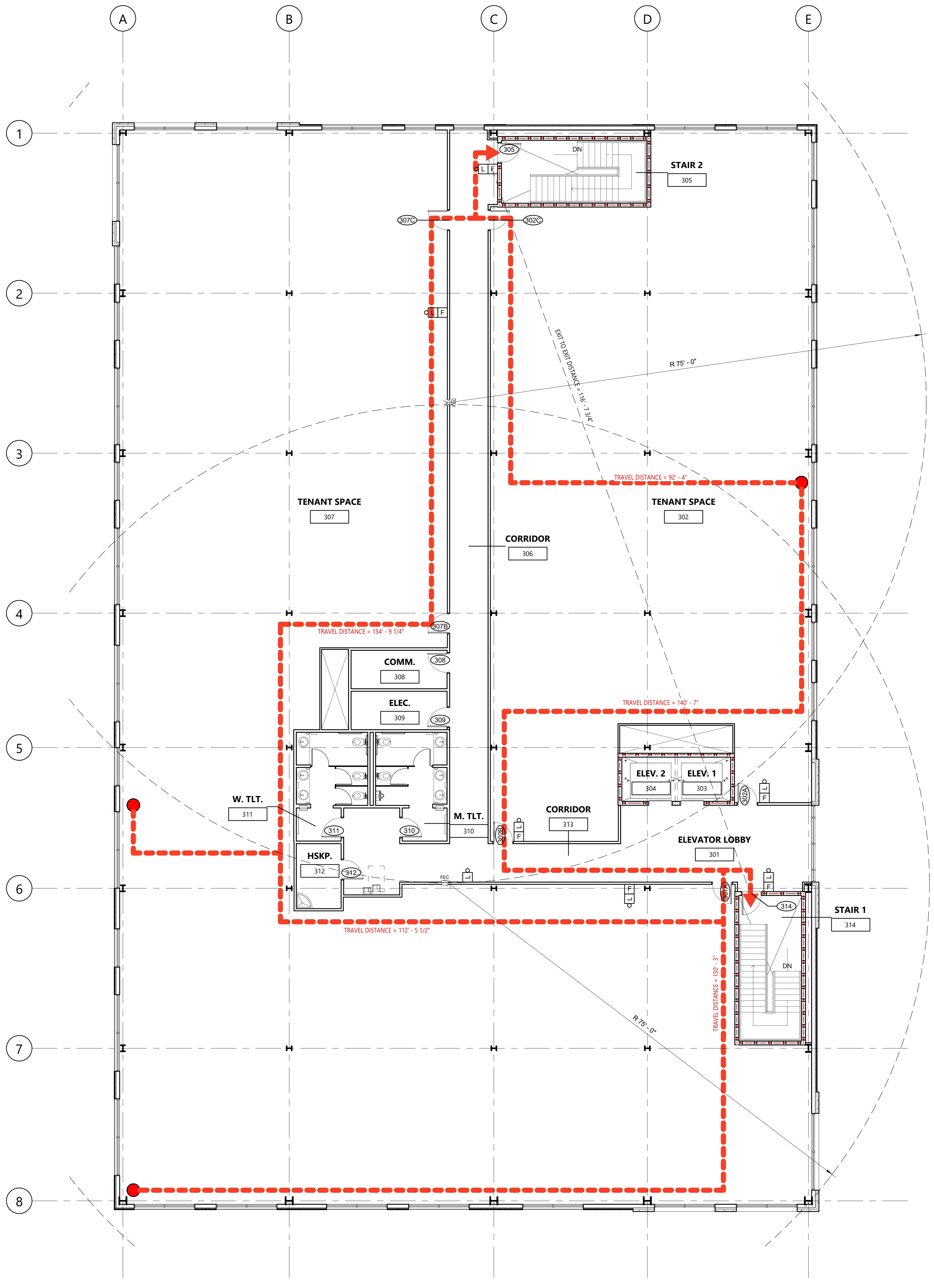
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
LIFE SAFETY PLAN
LEVEL 2

SHEET
G102



1 LEVEL 3 - LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

LIFE SAFETY NOTES

1. THIS PLAN IS FOR LIFE SAFETY INFORMATION ONLY.
2. BUILDING IS FULLY SPRINKLERED IN ACCORDANCE WITH NFPA 13 AND IS PROTECTED WITH A SUPERVISED AUTOMATIC SMOKE DETECTION SYSTEM.
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4. REFER TO THIS DRAWING FOR MEANS OF EGRESS
5. REFER TO THIS DRAWING FOR DOOR CAPACITIES.
6. FINAL LOCATION OF FAAP PANEL TO BE COORDINATED WITH FIRE MARSHAL.

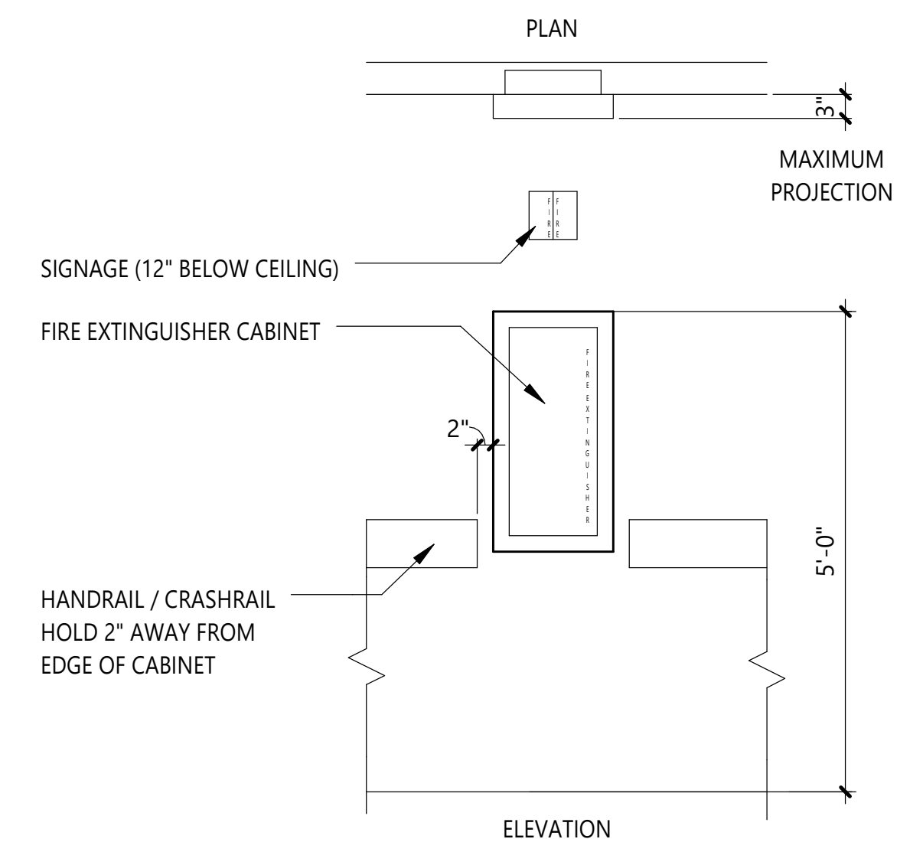
PARTITION FIRE RATING LEGEND

S — S — S	SMOKE PARTITION
♦ — ♦ — ♦ — ♦ — ♦	1-HR FIRE BARRIER
♦S — ♦S — ♦S	1-HR FIRE/SMOKE BARRIER
♦♦ — ♦♦ — ♦♦	2-HR FIRE BARRIER
♦♦S — ♦♦S — ♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

LIFE SAFETY LEGEND

FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
▲	EXIT
⊗	ILLUMINATED EXIT SIGN
F	FIRE ALARM - MANUAL PULL STATION
L○	FIRE ALARM - STROBE / CHIME
L	FIRE ALARM - STROBE
Ⓓ	SMOKE DETECTOR
MHO	MAGNETIC HOLD OPEN
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANUNCIATOR PANEL
●	EXTERIOR EMERGENCY LIGHTING

FIRE EXTINGUISHER DETAILS


PLAN
3"
MAXIMUM PROJECTION
SIGNAGE (12" BELOW CEILING)
FIRE EXTINGUISHER CABINET
2"
5'-0"
HANDRAIL / CRASHRAIL HOLD 2" AWAY FROM EDGE OF CABINET
ELEVATION

FIRE EXTINGUISHER NOTES

1. EXTINGUISHER LEGEND:
10:ABC CLASS DRY CHEMICAL, MULTIPURPOSE EXTINGUISHER

2. EXTINGUISHERS MUST BE LOCATED, INSTALLED, SIZED AND MAINTAINED ACCORDING TO NFPA 10.

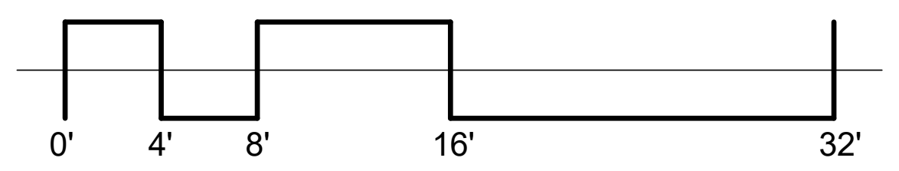
3. EXTINGUISHERS (LESS THAN 40 LBS) MUST BE INSTALLED SO THAT THE HANDLE OF THE EXTINGUISHER IS NOT MORE THAN 60" ABOVE THE FLOOR.

4. EXTINGUISHERS (OVER 40 LBS) MUST BE INSTALLED SO THAT THE TOP OF THE EXTINGUISHER HANDLE IS NOT MORE THAN 42" ABOVE THE FLOOR.

5. THERE MUST BE A CLEARANCE OF AT LEAST 4" BETWEEN THE BOTTOM OF THE EXTINGUISHER AND THE FLOOR.

6. ALL EXTINGUISHERS MUST BE PLACED FACING OUTWARD AND BE PROVIDED WITH SIGNAGE THAT CAN BE READ FROM 25 FEET AWAY. LOCATE 12" BELOW CEILING TO TOP OF PLACARD.

7. LOCKED OR BREAK-GLASS TYPE CABINETS ARE NOT ACCEPTABLE. CABINET DOOR SHALL CLOSE WITH A CATCH OR LATCH MECHANISM. (NFPA-10)



HEREFORD · DOOLEY
ARCHITECTS

1720 WEST END AVE · SUITE 300
NASHVILLE · TENNESSEE · 37203
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WWW.HDARCHITECTS.COM

PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
THOMAS ALAN DOOLEY
A-7733
REGISTERED ARCHITECT
15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
LIFE SAFETY PLAN
LEVEL 3

SHEET
G103

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016_Nicole Hermo.rvt
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UL - GENERAL WINDOW AND DOOR

GLAZING MATERIALS

Glazing materials referenced in this category are certified as to fire resistance only. The glazing materials are intended to be installed in the fire doors in accordance with ANSI/NFPA 80 and the installation instructions provided by the manufacturer of the door, glass light frame or glazing material; see Fire-protection-rated Glazing Materials (KCMZ).

DOOR FRAMES

Door frames bearing a UL Certification Mark without an hourly rating are intended (when provided with the required wall anchors) for installation in designated fire-rated walls.

Door frames bearing a UL Certification Mark without an hourly rating and provided with masonry wall anchors can be used in conjunction with fire doors rated up to 3 h and installed in masonry walls having fire-resistance ratings not less than the rating of the door.

Door frames bearing a UL Certification Mark without an hourly rating and provided with steel stud or wood stud anchors can be used in conjunction with fire doors rated up to 1-1/2 h and installed in steel stud and wood stud walls, steel stud cavity walls, steel stud shaft walls and wood stud cavity walls protected with gypsum board, having fire-resistance ratings not less than the rating of the door nor more than 2 h.

Elevator door frames, frames of the slip-on type, wood frames and other special-use frames as identified in the individual certifications are intended for installation only in the walls of the types shown in the installation instructions accompanying the door frame.

Door frames bearing a UL Certification Mark with a specific rating which are used with labeled fire doors or hardware having a lesser or greater rating will provide the degree of fire protection afforded by the lesser rating of either frame, door or hardware.

Standard door frames are of the single-unit or two-section type and consist essentially of steel head and jamb members, including hardware reinforcements, wall anchors, door stops, and provisions for anchoring to the floor.

Door frames may be provided with mullions, transom panels or transom lights. In addition to the steel head and jamb members, these frames are equipped with a steel mullion, transom bar, steel-covered composite transom panel, and glazing beads. Transom panel frames of standard construction are intended for use with doors rated up to and including 1-1/2 h. Transom light frames glazed with labeled glazing material are intended for use with doors rated a maximum of 3/4 h.

Some manufacturers can provide labeled transom panel frames for use with doors rated up to and including 3 h as indicated in the individual certifications. Some manufacturers can provide labeled transom frames with hollow-metal transom panels with or without a transom bar. Transoms of solid construction are intended for use with doors rated up to and including 1-1/2 h

(unless otherwise noted for 3 h in the individual certifications). Some manufacturers can provide labeled door frames with side panels or sidelights. Frames with side panels are intended for use with doors rated up to and including 1-1/2 h. Frames with sidelights glazed with labeled glazing material are intended for use with doors rated a max of 3/4 h.

Special frames are constructed of materials other than steel and are intended for use with doors rated less than 3 h. The hourly ratings for special frames are shown in the individual certifications.

Some special frames are intended for use with certified fire doors and certified transom panels of a specific design. These frames and the labeled components are identified in the individual certifications.

Double-egress frames are intended for use with double-egress-door designs as identified in the individual certifications.

Elevator door frames are intended for use with sliding freight or passenger elevator fire door designs for use in drywall or masonry shaft construction, as identified in the individual certifications for door frames.

Freight elevator, passenger elevator and swing-type fire door frames incorporating transom panels exceeding the heights eligible for certifications and which have not been subjected to standard fire tests can be provided with a Certificate for Oversized Frame Assemblies that are otherwise found to be in compliance (except for size) with all requirements for design, materials and construction. These oversized frame assemblies are intended for use with specific certified freight elevator fire doors, passenger elevator fire doors, or swing-type fire doors. Authorities Having Jurisdiction should be consulted as to whether the assembly is acceptable for a specific location. The Oversize Certificate can be a separate certificate or a label certificate affixed to the assembly.

20-minute-type door frames may be provided with sidelights and/or transom lights as indicated in the individual certifications.

Standard 20-minute-type door frames are of the single-unit pressed-steel type and consist essentially of steel head and jamb members, including hardware reinforcements, wall anchors, door stops and provisions for anchoring to the floor.

A 20-minute-type door frame with a transom and/or sidelight prepared at the factory for the glazing material does not normally include the glazing material itself. These frames should be glazed with certified glazing material; see Fire-protection-rated Glazing Materials (KCMZ).

POSITIVE-PRESSURE FRAMES

All three-sided hollow-metal frames, manufactured from 18 gauge or heavier steel and properly anchored, comply with the positive-pressure-test requirements. UL does not require that these frames be marked for compliance with positive pressure. Every steel frame manufacturer referenced herein is eligible to produce hollow-metal frames for compliance to positive pressure. Some manufacturers have opted to mark their frames for conformity to positive pressure as noted below.

Three-sided steel frames comply with the positive-pressure-test requirements of ANSI/UL 10C. The frame label reads as follows (several options available): "Listed Fire Door Frame" or "Listed Fire Door Frame" and "UL 10C." A supplemental label may be used to denote conformity to ANSI/UL 10C.

Category C frames are marked for conformity to positive pressure. The required label reads as follows: "Listed Fire Door Frame" and "UL 10C." Limitations on the hourly rating (if appropriate) also appear on the label.

Frames with lights (transom or sidelight) comply with positive pressure when certain glass (glazing) and glazing compounds are used. Refer to Glazing Materials (KCMZ) for the certifications of glazing and compound combinations that have been investigated to positive pressure. The label for the frame reads as follows (several options available): "Listed Frame With Lights" or "Listed Frame With Lights" and "UL 10C." A supplemental label may be used to denote conformity to ANSI/UL 10C.

WINDOW FRAMES

Fire window frames consist of sash and mullions of various designs. Fire window frames are certified for a 3/4 h or 1 h fire rating. In addition, some window frames are certified for 20 minutes without hose stream as indicated in the individual certifications. The exposed area of individual glazing lights is limited to 1296 sq in. with no dimension to exceed 54 in. unless otherwise stated in the individual certifications.

Fire window frames are intended to be installed in masonry-type walls unless otherwise identified in the individual certifications.

Fire window frames intended to be installed in gypsum board construction and supported directly by a noncombustible floor are marked "Fire Window Frame for Installation on Noncombustible Floor with Base Anchor Provided on Frame."

Fire window frames intended to be installed above the floor in drywall construction should be installed as specified by the installation instructions provided with the window frame.

20-minute-type window frames fire tested without hose stream cover pressed-steel window frames of the hollow-metal type.

Standard 20-minute-type window frames consist of formed steel sheet, reinforced as required, with a stationary-type single sash or with stationary-type multiple sashes.

The window frame prepared at the factory for the glazing material does not normally include the glazing material. Certified glazing material is usually provided by other than the window frame manufacturer and installed after installation of the window frame in the building.

The protection of an opening depends not only upon the use of doors or glazing of the proper type, but also upon the use of certified door or window frames, certified hardware, and other certified accessories, as needed. Authorities Having Jurisdiction should be consulted as to which door type, door frame, window frame, glazing, hardware and other certified accessories are acceptable for any given location.

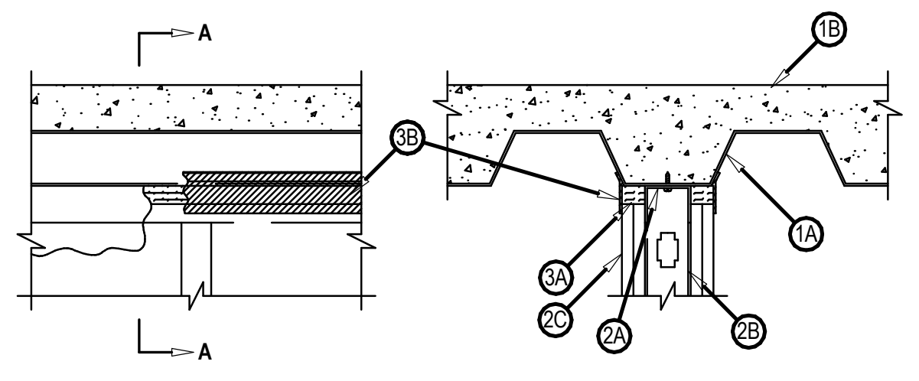
POSITIVE-PRESSURE WINDOW FRAMES

Window frames may comply with positive pressure when certain glass (glazing) and glazing compounds are used. Refer to Glazing Materials (KCMZ) for the certifications of glazing and compound combinations that have been investigated to positive pressure. The label for the frame reads as follows (several options available): "Fire Window Frame" or "Fire Window Frame" and "UL 9."

UL HW-D-0049

System No. HW-D-0049

Assembly Ratings 1 & 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 50% Compression Or Extension



SECTION A-A

1. Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor And Form Units* — Max 3 in. (76 mm) deep galv steel fluted units.

B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. Spray-Applied Fire Resistive Materials* — (Optional) - (Not Shown)—Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (44 mm) thickness of fire resistive material.
W R GRACE & CO - CONN — Type MK-6-HY

System No. HW-D-0049

Assembly Ratings 1 & 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 50% Compression Or Extension

1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. Wall Assembly — The 2 hr fire rated gypsum board /steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor And Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min 25 ga galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 2 in. (51 mm) flanges. Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors or welds spaced max 12 in. (305 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, ceiling runner secured through spray-applied material to valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

A1. Light Gauge Framing*-Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, slotted ceiling runner secured through spray-applied material to valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.
METAL-LITE INC — The System
SCAFCO STEEL STUD MANUFACTURING CO
SLIPTRACK SYSTEMS INC — SLP-TRK

System No. HW-D-0049

Assembly Ratings 1 & 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 50% Compression Or Extension

A2. Light Gauge Framing*-Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath deck, and secured with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, vertical deflection ceiling runner secured through spray-applied material to valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.
THE STEEL NETWORK INC — VertiTrack VTD250, VTD358, VTD400, VTD600 and VTD800

A3. Light Gauge Framing* — Clipped Ceiling Runner — As an alternate to the ceiling runner in Items 2A, 2A1 and 2A2, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner installed parallel to direction of fluted steel deck, centered beneath deck, and secured with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, clipped ceiling runner secured through the spray-applied material to valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.
TOTAL STEEL SOLUTIONS L L C — Snap Trak

A4. Light Gauge Framing —Floor and Ceiling Runners — As an alternate to the ceiling and floor runners in Item 2A, 2A1, 2A2 and 2A3, floor and ceiling runners to consist of galv steel channel sized to accommodate the Light Gauge Framing* Slotted Stud (Item 2B1) or Light Gauge Framing* Slider C-Clip System (Item 2B2). Floor and ceiling runners to be provided with min 1-1/4 in. (32 mm) and 3 in. (76 mm) flanges, respectively. Ceiling runner installed parallel to direction of fluted steel deck, centered beneath deck, and secured with steel masonry anchors spaced max 12 in. (305 mm) OC. When optional spray applied material is used on the steel deck, ceiling runner secured through the spray applied material to valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.
STEELER INC — Floor and Ceiling Runners

A5. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A4, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors spaced max 24 in. (305 mm) OC. When optional spray-applied material is used on the steel deck, ceiling runner secured through spray-applied material to valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.
DENMAR STEEL INC — Type SCR

B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

System No. HW-D-0049

Assembly Ratings 1 & 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 50% Compression Or Extension

B1. Light Gauge Framing* —Slotted Studs — Slotted steel stud to be used in conjunction with Light Gauge Framing* —Floor and Ceiling Runners (Item 2A4). Slotted steel studs to be min 2-1/2 in. (64 mm) wide. Slotted steel studs cut 1 in. less in length than assembly height with bottom nesting in and secured to both ceiling and floor runners. Ceiling runner secured to preformed slot within steel stud by means of No. 10 by 3/4 in. (19 mm) long low profile head steel screw. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Slotted steel stud spacing not to exceed 24 in. (610 mm) OC.
STEELER INC — Slotted Stud

B2. Light Gauge Framing* —Slider C-Clip System — As an alternate to the Light Gauge Framing* —Slotted Steel Studs (Item 2B1), a Slider C-Clip System consisting of a C shaped steel clip with a slotted opening and a steel stud to be used in conjunction with Light Gauge Framing —Floor and Ceiling Runners (Item 2A4). Steel clips and studs to be min 2-1/2 in. (64 mm) wide. Steel clip inserted into inside flange of steel stud without attachment. Total length of steel stud cut 1 in. (25 mm) less than assembly height with bottom of steel stud nesting in and secured to floor runner. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Ceiling runner secured to steel C-Clip by means of No. 10 by 3/4 in. (19 mm) long pan head steel screw located 3/8 in. (10 mm) below top of ceiling runner. Top row of gypsum board screws shall be centered within the preformed slot of the C-Clip. Steel stud and steel clips spacing not to exceed 24 in. (610 mm) OC.
STEELER INC — Slider C Clip System

C. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 in. (16 mm) and 1-1/4 in. (32 mm) on each side of wall for 1 and 2 Hr rated assemblies respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel floor units and the top row of screws shall be installed into the studs 3-1/2 (89 mm) to 4 in. (102 mm) below the lower surface of the floor. The hourly rating of the joint system is equal to the hourly fire rating of the wall.

3. Joint System — Max separation between bottom of floor and top of wall at time of installation of joint system is 1 in. (25 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:

A. Forming Material* — Nom 5/8 in. (16 mm) and 1-1/4 in. (32 mm) wide strips of min 4 pcf (64 kg/m3) mineral wool batt insulation for 1 and 2 hr rated assemblies respectively, cut to thickness, compressed 50 percent in thickness and firmly packed into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall. Adjoining lengths of strips to be tightly butted with butted seams spaced min 48 in. (1.2 m) apart along the length of the joint.
ROCK WOOL MANUFACTURING CO — Delta- Board
THERMAFIBER INC — Type SAF

A1. Forming Material* - Strips — (Optional) - Nom 5/8 in. (16 mm) and 1-1/4 in. (32 mm) wide precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent in thickness and firmly packed into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall. Adjoining lengths of strips to be tightly butted with butted seams spaced min 48 in. (1.2 m) apart along the length of the joint.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC — CP 767 Speed Strips

System No. HW-D-0049

Assembly Ratings 1 & 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 50% Compression Or Extension

B. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto gypsum board and steel deck on both sides of wall. When spray-applied fire resistive material is applied to the steel floor and form units, the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the CP672 firestop spray shall overlap the wall a min 1/2 in. (13 mm) and overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC — CP672 Firestop Spray

*Bearing the UL Classification Mark

UL U419

ONLINE CERTIFICATIONS DIRECTORY

Design No. U419
BXUV.U419
Fire Resistance Ratings - ANSI/UL 263

"Reprinted from the Online Certifications Directory with permission from UL"

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

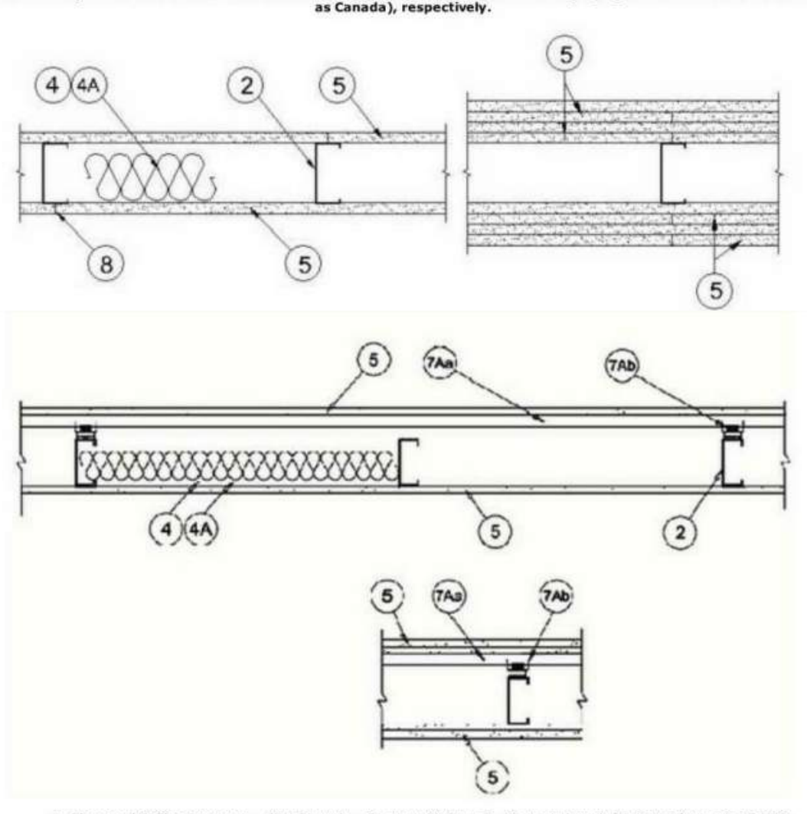
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U419

April 12, 2016

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1C. **Framing Members*— Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* - Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES L L C — Viper25™ Track

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — Viper20™ Track

1L. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2N. Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or 5K) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 - Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) —For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 - proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —** (As an alternate to Item 2, For use with Items 5C or 5L or 5K) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

TELLING INDUSTRIES L L C — Viper20™

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB MéTAL INC — EB Stud

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1L, channel shaped, min 3-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only.) — (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108. manufactured with exterior glue. applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4B. **Batts and Blankets* —** For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SCX

USG MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

CGC INC — Type USGX.

UNITED STATES GYPSUM CO — Type USGX.

USG MEXICO S A DE C V — Type USGX.

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners —** (Not Shown) — For use with Item 5K- Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long screws, spaced 16 in. OC. Second layer- 1-5/8 in. screws, spaced 8 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 24 in. OC. Fourth layer- 3 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and resilient sound isolation clip as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Resilient sound isolation clip used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

HEREFORD · DOOLEY
ARCHITECTS

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WWW.HDARCHITECTS.COM

PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS DOOLEY
A7735
2-15-19

WILLIAM E. HEREFORD III

02/15/19

DATES OF ISSUANCE

TITLE
UL DETAILS

SHEET
G200

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LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING

LEE'S SUMMIT, MISSOURI

S&ME PROJECT NO. 527116043
JANUARY 21, 2019

SITE DATA

PARCEL ID.: 60-420-99-09-00-0-00-000
SITE ADDRESS: 2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO, 64063
SITE ACREAGE: 28.39 AC. (1,239,168.70 FT▪)
EXISTING ZONING: CP-2
PROPOSED USE: MEDICAL OFFICE BUILDING (MOB)

OWNER: LEE'S SUMMIT MEDICAL CENTER
ADDRESS: 2100 SE BLUE PKWY
LEE'S SUMMIT, MO, 64063
PHONE NO.: 816.282.5000

PROJECT REPRESENTATIVE: S&ME INC.
ADDRESS: 1615 EDGEWATER DRIVE
ORLANDO, FL 32804
PHONE NO.: 407.975.1273
CONTACT NAME: GEORGE HUDDLESTON
CONTACT E-MAIL ADDRESS: ghuddleston@smeinc.com

Impervious Surface Area

	Acre	SF	Percentage
Total Existing Impervious Area	9.01	392,677.00	31.69
Removed	(1.78)	(77,673.53)	(6.27)
Proposed Building	0.44	18,962.00	1.53
Proposed Drives/Sidewalks	2.98	129,778.30	10.47
Total Proposed Impervious Area	10.65	463,743.77	37.42

Required Parking

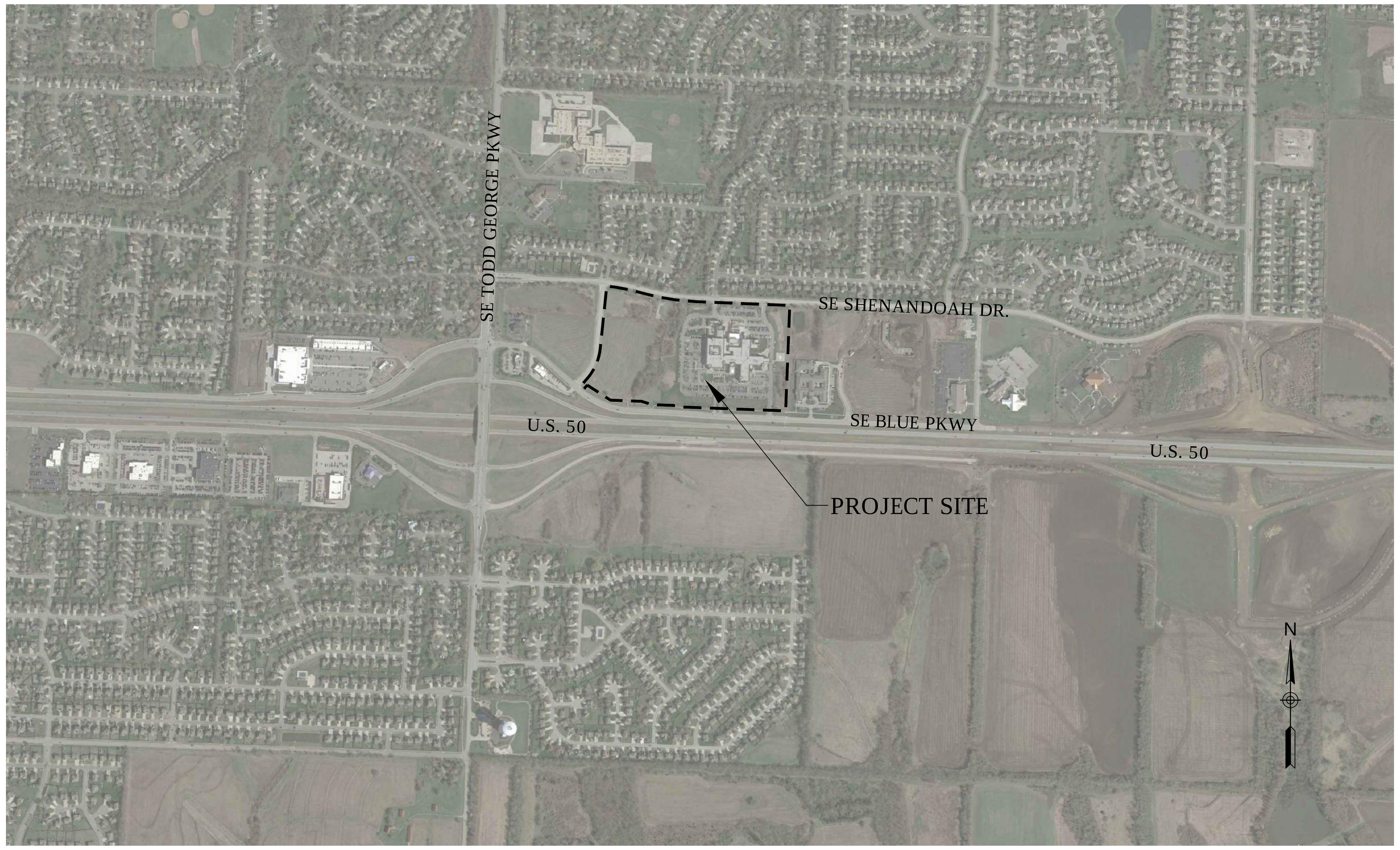
	Description	Parking Metric	Required Parking
Existing Hospital	85 beds	1.8 spaces / bed	153
Existing MOB	66,296 SF	5 spaces / 1,000 SF	331
Proposed MOB	56,503 SF	5 spaces / 1,000 SF	283
		Total:	**767**

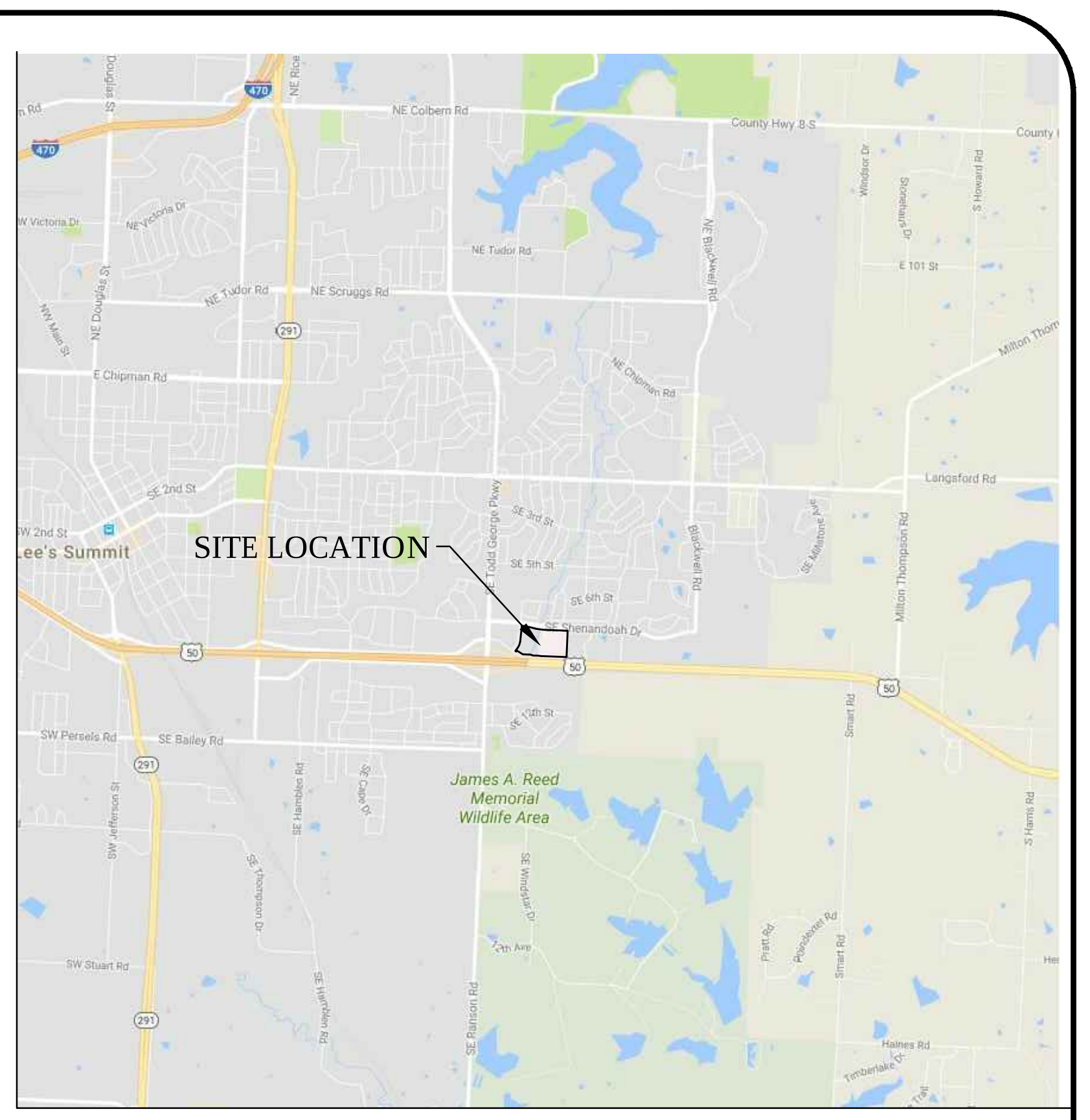
Provided Parking

	Standard	ADA	Total
Existing Parking	567	23	590
Demolished this Project	(187)	(10)	(197)
Proposed this Project	372	12	385
Total	**752**	**25**	**778**

Building Data

	SF	FAR
Existing Hospital	152,001	0.12
Existing MOB	66,296	0.05
Proposed MOB	56,503	0.05
Total	274,800	0.22





VICINITY MAP
NOT TO SCALE

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C1.1	EXISTING CONDITIONS
C1.2	EXISTING CONDITIONS
C2.0	NOTES
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C3.1	EROSION CONTROL DETAILS
C4.0	OVERALL DEMOLITION PLAN
C4.1	DEMOLITION PLAN
C4.2	DEMOLITION PLAN
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E101	FIRST FLOOR PLAN - ELECTRICAL ROOM
EP-1	SITE PLAN - PHOTOMETRICS

ARCHITECT
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615.244.7399

PREPARED FOR
LEE'S SUMMIT MEDICAL CENTER
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LEE'S SUMMIT, MO, 64063
816.282.5000

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GEORGE B. HUDDLESTON, III
NUMBER PE-2017035508
2/15/19

COVER SHEET
C0.0

HEREFORD · DOOLEY
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WWW.HDARCHITECTS.COM

LICENSE NUMBER: 123456789101112

PROJECT # 217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019

TITLE COVER SHEET

SHEET C0.0

C:_Revit Local\217026.00_Lee's Summit MOB_07.13.17_LOCAL_2016_nicole.hermo@hdarchitects.com.rvt
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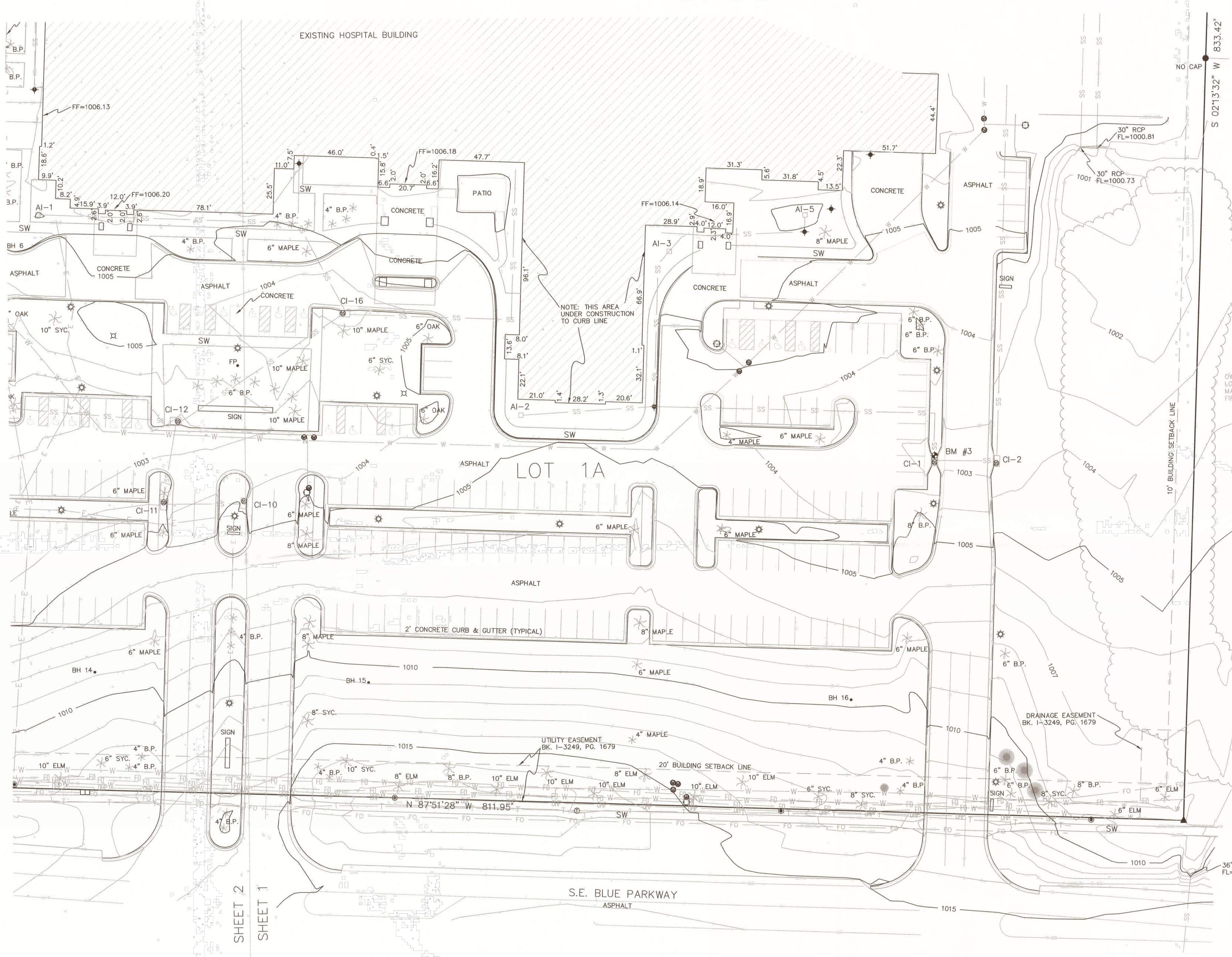
TOPOGRAPHIC SURVEY


EXISTING HOSPITAL BUILDING
LOT 1A
S.E. BLUE PARKWAY
ASPHALT
CONCRETE
PATIO
NOTE: THIS AREA UNDER CONSTRUCTION TO CURB LINE
2' CONCRETE CURB & GUTTER (TYPICAL)
UTILITY EASEMENT BK. I-3249, PG. 1679
DRAINAGE EASEMENT BK. I-3249, PG. 1679
20' BUILDING SETBACK LINE
10' BUILDING SETBACK LINE
N 87°51'28" W 811.95'
S 02°13'32" W 833.42'
NO CAP
BM #3
30" RCP FL=1000.81
30" RCP FL=1000.73
36" RCP FL=1007.65
SHEET 2
SHEET 1
OWNER: RICHARD D. LINK
TRACT A
MAGNOLIA PLACE AT CHARLESTON PARK
FIRST PLAT DOC. NO. 2011E0064625
OWNER: ARHC LSSMTMO01LLC
LOT 1
MAGNOLIA PLACE AT CHARLESTON PARK
FIRST PLAT DOC. NO. 2011E0064625

DESCRIPTION

LOTS 1A AND 1B, HCA MIDWEST, LOTS 1A & 1B, A MINOR SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

LEGEND

FP ●	Flagpole
⊥	Guy Anchor
◉	Power Pole
☼	Light pole W/ 2' Concrete Base
¤	Spot Light
BH 9 ●	Bore Hole
○	Fire Hydrant
E	Electric Manhole
W	Water Valve
◫	AT&T Manhole
T	Telephone Pedestal
ET	Electric Transformer
G	Gas Valve
SS	Storm Sewer
S	Sanitary Sewer Manhole
✦	Sewer Cleanout
⊗	Sprinkler Control Valve
♿	Handicap Parking Space
▲	Found 5/8" Bar w/ Alum. Cap #366.
●	Found 1/2" Bar w/ Cap
⊕	Set Benchmark

LEGEND

SW	Concrete Sidewalk
AI	Area Inlet Storm Drain
CI	Curb Inlet Storm Drain
INV	Invert Elevation
FF	Finished Floor Elevation
—x—	Chain Link Fence
— X —	PVC Fence
— T —	Telephone
— FO —	Fiber Optic
— E —	Underground Electric
— OHP —	Overhead Power
—S—S—	Sanitary Sewer
—SS—SS—	Storm Sewer
—W—W—W—	Water Line
—G—G—G—	Underground Gas Line
B.P.	Bradford Pear
SYC.	Sycamore
✳	4"-8" DECIDUOUS TREE
☁	10"-20" DECIDUOUS TREE
●	6"-8" CONIFEROUS TREE
●	10"-12" CONIFEROUS TREE
︵︵︵	TREE LINE

STORM SEWER STRUCTURES

CI-14 5'X3' CURB INLET TOP=999.78
FL IN (E) 30" HDPE=994.13
FL OUT (W) 30" RCP=993.93

CI-13 5'X3' CURB INLET TOP=1000.92
FL IN (E) 24" HDPE=995.62
FL OUT (W) 30" HDPE=995.22

CI-12 5'X4' CURB INLET TOP=1002.97
FL IN (NE) 18" HDPE=998.57
FL IN (S) 18" HDPE=998.37
FL OUT (W) 24" HDPE=998.57

CI-11 5'X3' CURB INLET TOP=1004.28
FL IN (E) 18" HDPE=999.63
FL OUT (N) 18" HDPE=999.38

CI-10 5'X3' CURB INLET TOP=1004.84
FL OUT (W) 18" HDPE=1000.08

CI-16 5'X3' CURB INLET TOP=1003.72
FL IN (NW) 10" HDPE=999.77
FL IN (E) 10" HDPE=999.72
FL OUT (SW) 18" HDPE=999.67

STORM SEWER STRUCTURES

CI-1 5'X3' CURB INLET TOP=1003.12
FL IN (N) 10" HDPE=999.22
FL OUT (E) 24" HDPE=998.92

CI-2 5'X3' CURB INLET TOP=1003.19
FL IN (W) 24" HDPE=998.74
FL OUT (N) 24" HDPE=998.64

CI-22 5'X3' CURB INLET TOP=1001.13
FL IN (E) 12" HDPE=996.88
FL OUT (NW) 18" HDPE=996.33

CI-23 5'X3' CURB INLET TOP=998.46
FL IN (SE) 18" HDPE=994.96
FL OUT (N) 24" HDPE=994.76

CI-24 6'X5' CURB INLET TOP=997.06
FL IN (S) 24" HDPE=992.16
FL OUT (N) 30" RCP=991.86

AI-1 15" DRAIN W/ GRATE TOP=1004.70
FL OUT (E) 8" HDPE=1002.60

AI-2 15" DRAIN W/ GRATE (PER PLANS)
BEHIND CONSTRUCTION FENCE

AI-3 15" DRAIN W/ GRATE (PER PLANS)
BEHIND CONSTRUCTION FENCE

AI-5 15" DRAIN W/ GRATE TOP=1004.17
FL OUT (S) 8" HDPE=1002.17

SANITARY SEWER MANHOLES

MH A-1
TOP=993.32
INV= 983.82 IN (S) & (E) 8" PVC
OUT (N) 8" PVC

MH A-2
TOP=992.86
INV=985.76 IN (E) OUT (W) 8" PVC

MH A-3
TOP=1003.77 – UNABLE TO OPEN
INV= 991.77 PER PLANS
OUT (W) 8" PVC

MH A-4
TOP=995.96
INV=984.96 IN (S) OUT (N) 8" PVC

MH A-5
TOP=1001.91
INV= 988.68 IN (S) OUT (N) 8" PVC

NOTES:

BENCHMARKS

PROJECT BENCHMARK = MO DNR MONUMENT JA-45, PID=095045, ELEVATION=1046.13 NAVD 88.

BM#1= SET CHISELED PLUS ON SIDEWALK 5.5' NORTH OF NORTH EDGE OF PAVEMENT OF BLUE PARKWAY AND 660 FEET WEST OF MAIN ENTRANCE TO HOSPITAL. ELEVATION = 1000.87, NAVD 88.

BM#2= SET CHISELED PLUS ON TOP OF CURB WEST EDGE OF WEST PARKING LOT. ELEVATION = 1000.77, NAVD 88.

BM#3= SET CHISELED PLUS ON NORTH SIDE OF CURB INLET 240 FEET NORTH OF BLUE PARKWAY ON EAST ENTRANCE TO HOSPITAL. ELEVATION = 1003.12, NAVD 88.

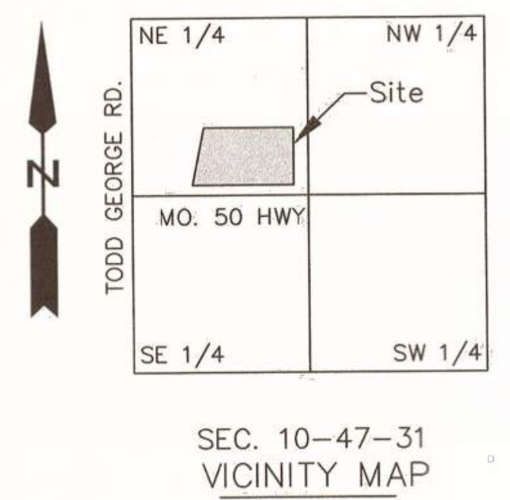
BASIS OF BEARING = MISSOURI STATE PLANE COORDINATES, WEST ZONE, NAD83.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED BY MAPS AND FIELD MARKINGS. PLEASE VERIFY EXACT LOCATION BEFORE DIGGING.

I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION.

DATE: 7-26-17
PLS#2004001325

DANIEL E. BAUMCHEN
NUMBER
PLS-2004001325



SEC. 10-47-31
VICINITY MAP
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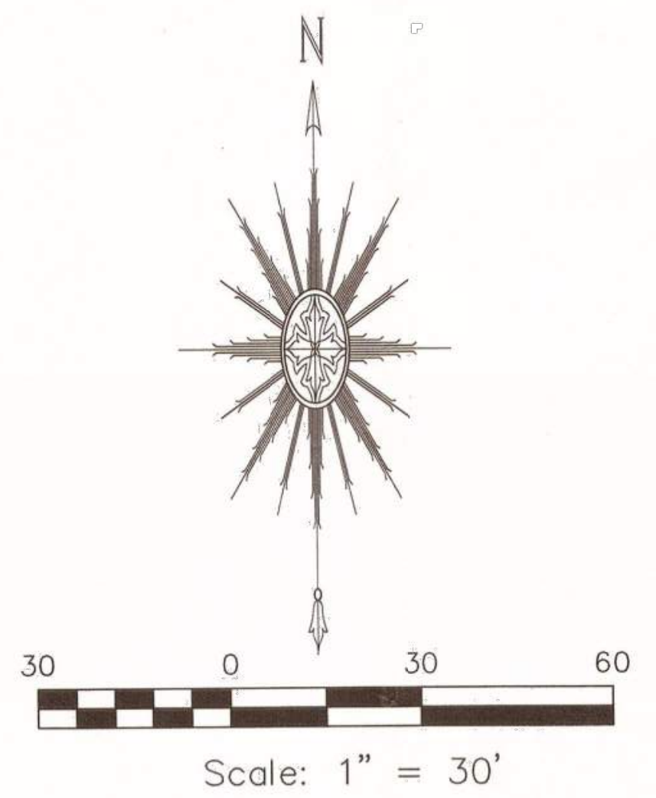

Scale: 1" = 30'

Prepared for:
S&ME, Inc.
1615 Edgewater Drive
Suite 200
Orlando, FL 32804

NORTH STAR SURVEYING, LLC
6331 N. Britt Ave.
Kansas City, MO 64151
Phone: 816-436-7895

MO State Cert. of Authority:
LS-2009020040

Daniel E. Baumchen, PLS
PLS-2004001325

Date:	6/9/2017
Rev:	7/25/2017
Rev:	
Job No.:	5-17-003
SHEET	

C1.0

EXISTING
CONDITIONS

HEREFORD · DOOLEY
ARCHITECTS

1720 WEST END AVE ǀ SUITE 300
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7/25/2017 11:03:59 AM

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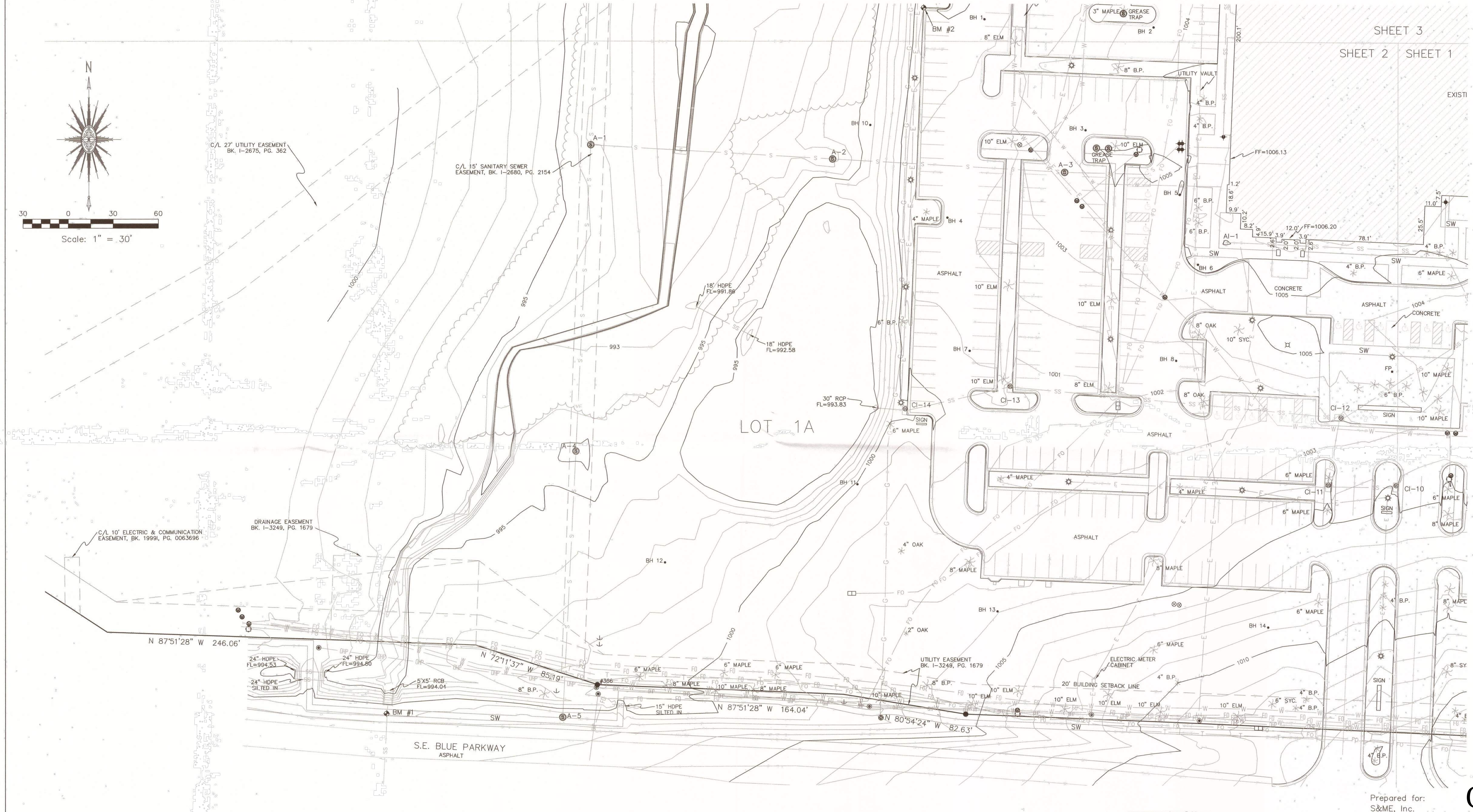
TOPOGRAPHIC SURVEY



NOTES:

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BM#2= SET CHISELED PLUS ON TOP OF CURB WEST EDGE OF WEST PARKING LOT. ELEVATION = 1000.77, NAVD 88.

BM#3= SET CHISELED PLUS ON NORTH SIDE OF CURB INLET 240 FEET NORTH OF BLUE PARKWAY ON EAST ENTRANCE TO HOSPITAL. ELEVATION = 1003.12, NAVD 88.

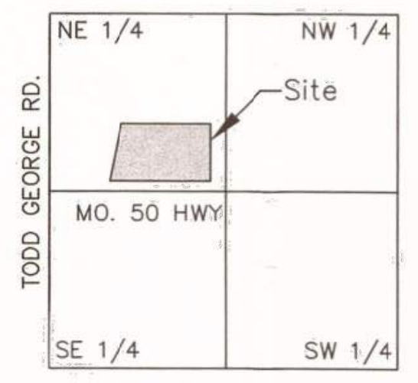
BASIS OF BEARING = MISSOURI STATE PLANE COORDINATES, WEST ZONE, NAD83.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED BY MAPS AND FIELD MARKINGS. PLEASE VERIFY EXACT LOCATION BEFORE DIGGING.

I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION.

DATE: 7-26-17
PLS#2004001325

DANIEL E. BAUMCHEN
NUMBER
PLS-2004001325



SEC. 10–47–31
VICINITY MAP
NOT TO SCALE

Prepared for:
S&ME, Inc.
1615 Edgewater Drive
Suite 200
Orlando, FL 32804

C1.1
EXISTING
CONDITIONS

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6331 N. Britt Ave.
Kansas City, MO 64151
Phone: 816–436–7895

MO State Cert. of Authority:
LS–2009020040

Daniel E. Baumchen, PLS
PLS–2004001325

Date:	6/9/2017
Rev:	7/25/2017
Rev:	
Job No.:	5–17–003
SHEET	

HEREFORD · DOOLEY
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LICENSE NUMBER: 123456789101112

PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

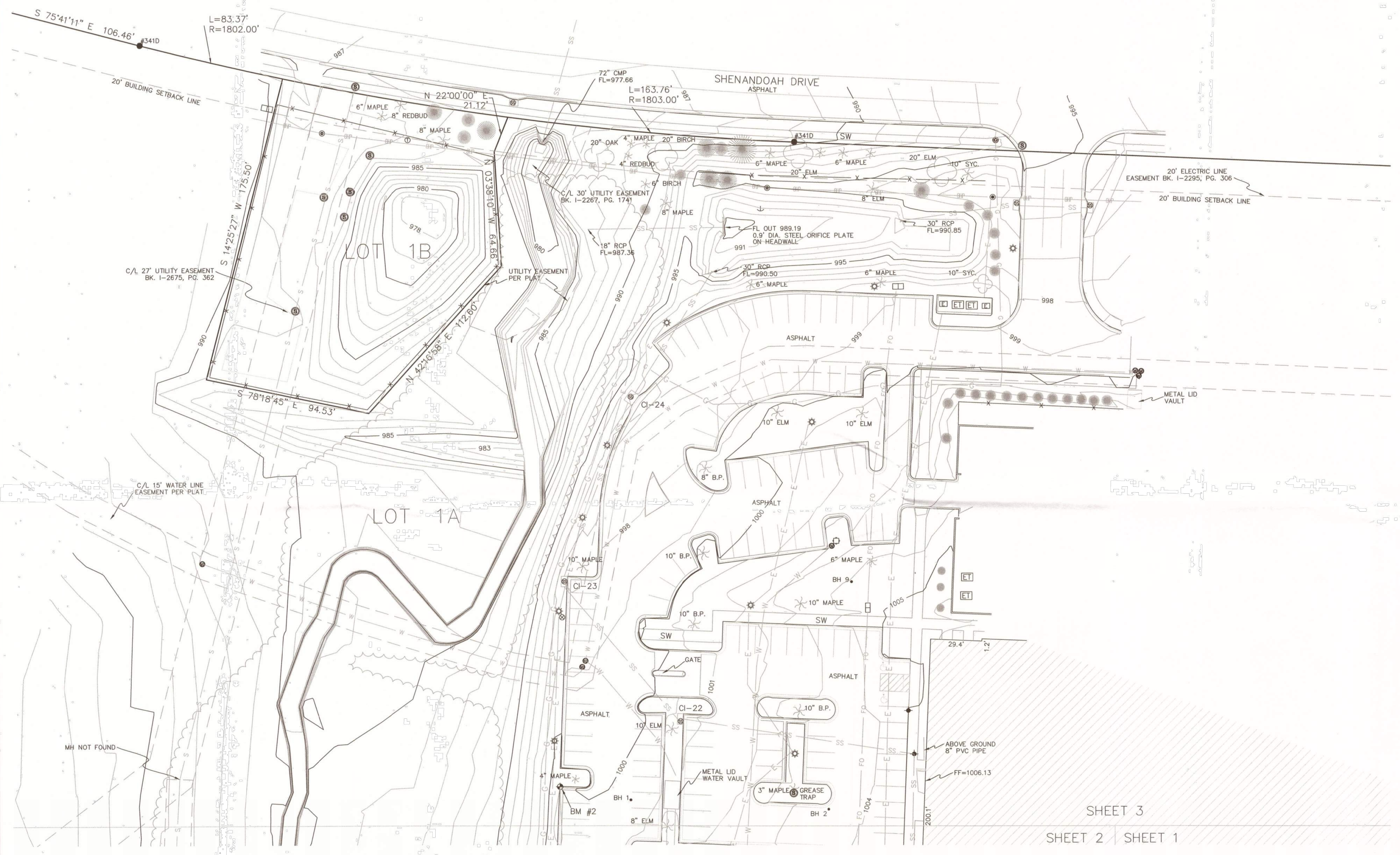
STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019

TITLE
EXISTING CONDITIONS

SHEET
C1.1

TOPOGRAPHIC SURVEY



NOTES:

PROPERTY IS ZONED CP–2, PLANNED COMMUNITY COMMERCIAL

NO TITLE WORK PROVIDED – EASEMENTS SHOWN ARE PER PLAT OF "HCA MIDWEST, LOTS 1A AND 1B" RECORDED IN DOCUMENT NO. 2007E0127459.

NOTES:

BENCHMARKS

PROJECT BENCHMARK = MO DNR MONUMENT JA–45, PID=095045, ELEVATION=1046.13 NAVD 88.

BM#1= SET CHISELED PLUS ON SIDEWALK 5.5' NORTH OF NORTH EDGE OF PAVEMENT OF BLUE PARKWAY AND 660 FEET WEST OF MAIN ENTRANCE TO HOSPITAL. ELEVATION = 1000.87, NAVD 88.

BM#2= SET CHISELED PLUS ON TOP OF CURB WEST EDGE OF WEST PARKING LOT. ELEVATION = 1000.77, NAVD 88.

BM#3= SET CHISELED PLUS ON NORTH SIDE OF CURB INLET 240 FEET NORTH OF BLUE PARKWAY ON EAST ENTRANCE TO HOSPITAL. ELEVATION = 1003.12, NAVD 88.

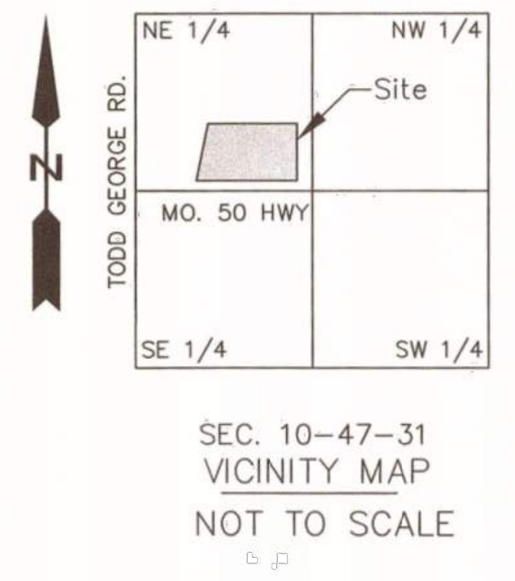
BASIS OF BEARING = MISSOURI STATE PLANE COORDINATES, WEST ZONE, NAD83.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED BY MAPS AND FIELD MARKINGS. PLEASE VERIFY EXACT LOCATION BEFORE DIGGING.

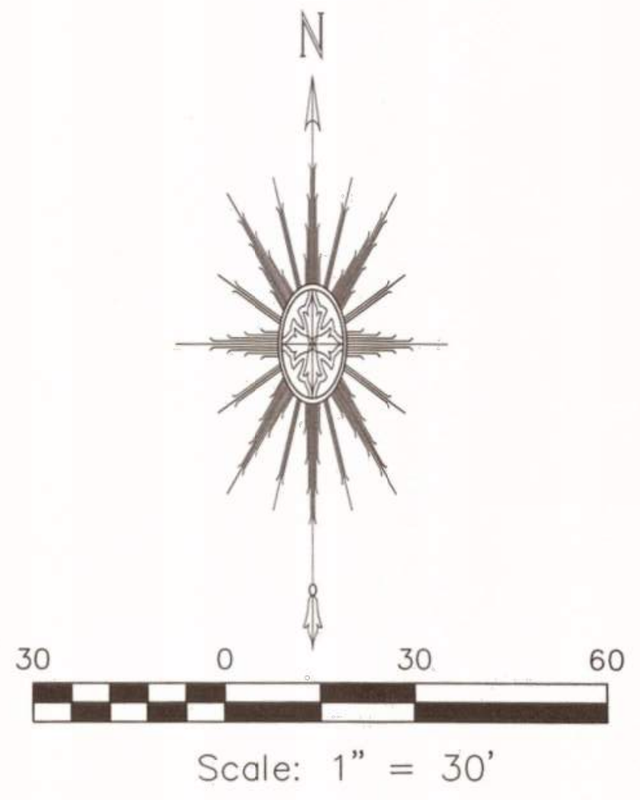
I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION.

DATE: 7-26-17
PLS#2004001325

DANIEL E. BAUMCHEN
NUMBER PLS-2004001325



SEC. 10–47–31
VICINITY MAP
NOT TO SCALE



Scale: 1" = 30'

Prepared for:
S&ME, Inc.
1615 Edgewater Drive
Suite 200
Orlando, FL 32804

NORTH STAR SURVEYING, LLC 6331 N. Britt Ave. Kansas City, MO 64151 Phone: 816–436–7895 MO State Cert. of Authority: LS–2009020040 Daniel E. Baumchen, PLS PLS–2004001325	Date: 6/9/2017
	Rev: 7/25/2017
	Rev:
	Job No.: 5–17–003
	SHEET

C1.2

EXISTING
CONDITIONS

HEREFORD · DOOLEY
ARCHITECTS

1720 WEST END AVE | SUITE 300
NASHVILLE | TENNESSEE | 37203
P | 615 | 244 | 7399
F | 615 | 244 | 6697
WWW.HDARCHITECTS.COM

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C1.2

C:_Revit Local\217026.00_Lee's Summit MOB_07.13.17_LOCAL_2016_nicole.hermo@hdarchitects.com.rvt
7/25/2017 11:03:59 AM

EROSION CONTROL NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.

TREE PROTECTION NOTES

1. PRIOR TO CONSTRUCTION ACTIVITY, THE GENERAL CONTRACTOR SHALL STAKE THE LIMITS OF CLEARING, GRADING AND BUILDING FOOTPRINTS THAT AFFECT THE TREE PRESERVATION AREAS.
2. THE LOCATION OF TREE PROTECTION MEASURES SHALL BE REVIEWED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION COMMENCING. TREE PROTECTION BARRICADES SHALL CONSIST OF ORANGE PLASTIC BARRIER CONSTRUCTION FENCING, AND SHALL BE INSTALLED IN LOCATIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL INSTALL ADEQUATE TREE PROTECTION MEASURES PRIOR TO ANY GRADING ACTIVITIES TO PREVENT CONSTRUCTION ACTIVITIES WITHIN PROXIMITY OF SPECIMEN TREES.
4. ALL GRADING WITHIN PROTECTED-ROOT-ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
5. ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE GROUND AND COVERED WITH BACKFILL AS SOON AS POSSIBLE. IF EXPOSED ROOTS ARE NOT COVERED WITHIN 24 HOURS, COVER THEM WITH MULCH AND THOROUGHLY WATER UNTIL COVERED WITH BACKFILL.
6. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE OR STORE MATERIALS, WITHIN THE DRIP LINES OF TREES TO BE PRESERVED.
7. WHENEVER GRADING OR EXCAVATION IS DIRECTED WITHIN THE CANOPY COVERAGE AREA OF A TREE TO BE PRESERVED, FIRST CUT ROOTS USING A òDITCH WITCHó OR SIMILAR DEVICE TO PROVIDE CLEAN CUT OF ROOTS AT LIMITS OF ACTIVITY (PRIOR TO USE OF BACKHOE OR BULLDOZER). DO NOT ALLOW HEAVY EQUIPMENT WITHIN THE AREA BETWEEN CUT LINE AND TRUNK OF TREE. TRENCHES TO BE BACKFILLED AND TAMPERED TO MINIMIZE SETTLEMENT.
8. BARRICADES SHALL ENCROACH ON AREAS TO BE PAVED UNTIL PAVING AND/OR GRADE ADJUSTMENT ACTIVITIES BEGIN. ONLY THEN SHALL BARRICADES BE MOVED TO THE MAXIMUM ALLOWABLE PROTECTED ROOT TREE SAVE ZONE THAT WILL NOT ENCROACH ON THE PLANNED CONSTRUCTION. REMOVAL OF BARRICADE SHALL OCCUR ONLY AFTER PAVING IS COMPLETED AND CURBING IS INSTALLED, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
9. PROVIDE WATERING OF SPECIMEN TREES DURING CONSTRUCTION WHEN PERIODS OF DROUGHT EXCEED SEVEN DAYS. UTILIZE OSCILLATING TYPE SPRINKLERS TO COVER ENTIRE PROTECTED ROOT ZONE FOR FOUR HOURS EACH.
10. ROOT AREA OF TREES WHERE SOIL HAS BEEN COMPACTED DUE TO CONSTRUCTION ACTIVITY SHALL BE VERTICALLY MULCHED (AERATED) AT DIRECTION OF THE QUALIFIED PROFESSIONAL. THIS SHALL BE ACCOMPLISHED BY AUGURING THE SOIL IN A 2' GRID PATTERN TO WITHIN 3' OF TRUNK AND TO 10' BEYOND THE DRIP LINE. A 2ó TO 3ó HAND OPERATED AUGUR SHALL BE USED TO DRILL HOLES TO A MINIMUM DEPTH OF 12ó. TYPE OF BACKFILL WILL BE DETERMINED BY THE QUALIFIED PROFESSIONAL.
11. HEAVY ACCUMULATION OF DUST FROM CONSTRUCTION ACTIVITY MAY OCCUR ON THE SURFACE OF TREE FOLIAGE. TO CONTROL DUST, TREE FOLIAGE MAY BE HOSED DOWN UPON THE REQUEST OF THE QUALIFIED PROFESSIONAL
12. REMOVAL OF ALL TREE PROTECTION FENCING, SILT FENCING AND SIGNAGE WILL BE DONE BY THE GENERAL CONTRACTOR WHEN PERMITTED BY THE LOCAL CODE ENFORCEMENT OFFICIALS. RESTORATION OF ALL AREAS DISTURBED BY THE FENCING AND/OR SIGNAGE WILL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY.

DEMOLITION NOTES

1. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION, INCLUDING TREES AND SHRUBS, SIGNS, UTILITY STRUCTURES, ETC., SHALL BE FIRST OFFERED TO THE OWNER'S REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
3. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
4. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF NEW IMPROVEMENTS ON THE SITE LAYOUT PLAN & UTILITY INSTALLATION.
5. CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNER'S REPRESENTATIVE AND LOCAL GOVERNING AGENCY PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE UTILITY COMPANIES.
6. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE SUITABLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO ACCOMPLISH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
9. THE CONTRACTOR SHALL PRESERVE AND PROTECT SURVEY CONTROL POINTS AND SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DISTURBED CONTROL POINTS.
10. EXISTING LIGHT STANDARDS BEING REMOVED SHALL BE FIRST OFFERED TO THE OWNER PRIOR TO DISPOSING OF THEM. COORDINATE LIGHTING DEMOLITION AND LAYOUT WITH THE ELECTRICAL DRAWINGS.
11. RELOCATION OF EXISTING PLANT MATERIALS SHALL BE COORDINATED WITH THE OWNER AND RELOCATED TO A DESIGNATED AREA ON SITE.

DEMOLITION NOTES (CONT.)

12. EXISTING TRESS TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAIL ON THE EROSION CONTROL PLAN.
13. NO UTILITY OR STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION.
14. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.
15. WHERE EXISTING IRRIGATION LINES LIE WITHIN THE AREA AFFECTED BY THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL REWORK THE EXISTING IRRIGATION SYSTEMS IN ACCORDANCE WITH DIRECTIVES NOTED ON THE LANDSCAPE PLAN. SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION TO THE LANDSCAPED AREAS CURRENTLY IRRIGATED.

GENERAL NOTES

1. THE PROJECT SITE IS SHOWN AS PARCEL 60-420-99-09-00-0-00-000.
2. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY NORTH STAR SURVEYING, LLC. DATED JULY 26, 2017. S&ME INC. AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
3. THE SITE LAYOUT IS BASED ON REFERENCE POINTS AS NOTED.
4. THE CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS, (i.e. INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS) IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL CALL NATIONAL ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION.
6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
7. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED IN ACCORDANCE WITH LOCAL AGENCY STANDARDS WHEREVER UTILITY INSTALLATION REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS.
8. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
9. DIMENSIONS ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
10. CONCRETE FOR CURBS SHALL BE 3500 PSI CONCRETE. CONCRETE FOR SIDEWALKS SHALL BE 4.000 PSI.
11. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE LOCAL GOVERNING AUTHORITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. GRADES WITHIN ACCESSIBLE SPACES SHALL BE MAXIMUM 2% IN ALL DIRECTIONS.
13. CURBS SHALL BE PARALLEL TO THE CENTERLINE OF DRIVES. THE CURB SHALL BE PLACED ONLY AFTER HAVING ALL BREAK POINTS (PC & PT OF CURVES) LOCATED AT THE FACE OF CURB OR AT A CONSISTENT OFFSET BY A REGISTERED LAND SURVEYOR.
14. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
15. THE CONTRACTOR SHALL PAVE IN THE DIRECTION OF TRAFFIC.
16. THE CONTRACTOR SHALL COLD PLANE IN THE DIRECTION OF TRAFFIC.
17. THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.
18. ALL ROADWAY AND SIDEWALK CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF LOCAL GOVERNING AGENCY.
19. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL GOVERNING AGENCY AND STATE DOT REGULATIONS AND SPECIFICATIONS.
20. ALL CURBING WILL BE REQUIRED TO ADJUST TO THE GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES, AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.

SITE GRADING & EROSION CONTROL NOTES

1. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 5.69 ACRES.
2. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR JACKSON COUNTY, MISSOURI, WITH AN EFFECTIVE DATE OF JANUARY 20, 2017.
3. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
4. SOD ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
6. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
7. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS.
8. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

SITE GRADING & EROSION CONTROL NOTES (CONT.)

9. THE CONTRACTOR SHALL ADJUST THE CASTINGS OF ALL NEW AND EXISTING STRUCTURES TO MATCH PROPOSED FINISH GRADES.
10. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
11. PROPOSED CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF AN ENGINEERED GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
12. ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.
13. MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0%. THE MAXIMUM GRADES WITHIN ACCESSIBLE SPACES SHALL BE 2% IN ANY DIRECTION.
14. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND OBTAIN APPROVAL AS NECESSARY BEFORE BEGINNING CONSTRUCTION.
15. ALL EARTHWORK, INCLUDING THE EXCAVATED SUBGRADE AND EACH LAYER OF FILL, SHALL BE MONITORED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE.
16. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
17. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
18. IN NO CASE SHALL SLOPE, HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS, SPECIFICALLY THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS (29 CRF PART 1926) SHALL BE FOLLOWED.
19. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
20. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING OVER ALL DISTURBED AREAS, TO A MINIMUM DEPTH OF 6ó. CONTRACTOR SHALL SUPPLY ADDITIONAL TOP SOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE.
21. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADES.
22. ALL DRAINAGE CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL GOVERNING AGENCY.
23. POSITIVE DRAINAGE SHALL BE ESTABLISHED AS THE FIRST ORDER OF WORK AND SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL SOFTENED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE EXPECTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING.
24. REINFORCED CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III, WALL òBó. HDPE SHALL BE CORRUGATED, SMOOTH WALL N-12 PIPE WITH SOIL TIGHT JOINTS.
25. FILL SLOPES 3:1 AND GREATER SHALL BE PLACED AND COMPACTED 5' BEYOND PROPOSED LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION.
26. THE CONTRACTOR SHALL PROVIDE AN ASBUILT SURVEY STAMPED BY A LICENSED SURVEYOR IN THE STATE OF MISSOURI OF ALL STORM SYSTEMS, ONSITE DETENTION PONDS, AND WATER QUALITY MEASURES VERIFYING COMPLIANCE WITH DESIGN DOCUMENTS.
27. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO INSTALLATION OF THE WATER QUALITY DEVICES.
28. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THIS MATERIAL SHALL BE PLACED IN LIFTS DIRECTED BY THE GEOTECHNICAL ENGINEER AND COMPACTED AS SPECIFIED BY THE GEOTECHNICAL ENGINEER TO 95% STANDARD/MODIFIED PROCTOR.
29. THE LOCATION OF ALL DIVERSION SWALES AND DITCHES SHALL BE FIELD ADJUSTED TO AVOID TREES AS POSSIBLE. THE CONTRACTOR SHALL WALK THE ALIGNMENT OF THESE SWALES AND DITCHES IN THE FIELD TO VERIFY AVOIDANCE OF TREES.
30. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN THE RUN-OFF. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR EARTHWORK. THE CONTRACTOR SHALL OBTAIN THE DISPOSAL SITE AS PART OF THIS WORK.
31. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS.
32. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
33. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WASTE EXCESS EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL FIRST OFFER THE EXCESS MATERIAL TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) FOR EARTHWORK OPERATIONS IF SUFFICIENT AMOUNTS OF EARTH MATERIAL ARE NOT AVAILABLE ON SITE.

SITE UTILITY NOTES

1. THE PROJECT SITE IS SHOWN AS PARCEL 0-420-99-09-00-0-00-000.
2. THE SANITARY SEWER SHALL BE OF THE MATERIAL INDICATED ON THE PLAN. POLYVINYLCHLORIDE (PVC) SHALL BE (SDR35). DUCTILE IRON PIPE (D.I.P.) SHALL BE CLASS 52.
3. ALL WATER LINES, SEWER LINES, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE LOCAL AGENCY STANDARDS AND SPECIFICATIONS.
4. PROVIDE A MINIMUM 36ó OF COVER OVER ALL WATER LINES.
5. THE CONTRACTOR SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES. WHERE THESE CRITERIA CANNOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18ó VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.
6. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING MANHOLES OR SANITARY SEWER LINES AT THE POINT OF CONNECTION PRIOR TO THE COMMENCEMENT OF ORDERING OF MATERIALS, CONSTRUCTION OR REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES DO NOT CONFLICT WITH SANITARY SEWERS, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR STRUCTURE, EXISTING OR PROPOSED.
8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
9. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCAL WATER AND SEWER DEPARTMENT SPECIFICATIONS.
10. ALL TRENCHES CUT IN EXISTING ROADS OR DRIVES SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFIELD (100%) TO FINAL SUBGRADE WITH #57 STONE. REPAIR ROADS PER LOCAL AGENCY REQUIREMENTS.
11. REPAIR ALL DAMAGE TO EXISTING FEATURES (i.e. DRIVES, ROADS, YARDS, LANDSCAPING, ETCê) TO PRE-CONSTRUCTION CONDITION.
12. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASSUNDER OR OVER OTHER UTILITY LINES. (ALL BENDS AND BRACES NEEDED MAY NOT BE ACTUALLY SHOWN). PROVIDE BRACING AND/OR RODDING AT ALL BENDS AND TEES AS REQUIRED BY WATER DEPARTMENT.
13. REDUCED PRESSURE BACKFLOW PREVENTER (RPBP) OR DUAL CHECK WILL BE REQUIRED ON ALL TESTS AND FILL LINES (JUMPER) NEEDED FOR WATER MAIN CONSTRUCTION AND MUST BE APPROVED BY THE WATER DEPARTMENT.
14. COORDINATE THE EXACT LOCATION OF ALL UTILITIES ENTERING THE BUILDING WITH THE PLUMBING PLANS.
15. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS. EXISTING PIPE MATERIAL AND SIZES AS SHOWN ON PLANS.
16. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDSCAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.
17. THE PROPOSED GAS LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL GAS COMPANY BY THE CONTRACTOR.
18. THE PROPOSED ELECTRIC LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL ELECTRIC COMPANY BY THE CONTRACTOR.
19. THE PROPOSED TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL TELEPHONE COMPANY BY THE CONTRACTOR.
20. WHERE DRAINAGE OR UTILITY LINES OCCUR IN PROPOSED FILL AREAS, THE FILL MATERIAL IS TO BE PLACED AND COMPACTED TO 95% STANDARD/MODIFIED PROCTOR OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D1557 PRIOR TO INSTALLATION OF DRAINAGE OR UTILITY LINES. FILL IS TO BE INSPECTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER TESTING FIRM EMPLOYED BY THE OWNER. RESULTS OF THE TEST SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR TO PAY FOR ANY RETESTING.
21. THE CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE WATER LINES (HORIZONTALLY AND/OR VERTICALLY) TO ALLOW THE REQUIRED BRACING AT BENDS AND TEES.
22. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
23. THE OUTSIDE OF ALL MANHOLES SHALL BE COATED WITH BITUMINOUS PAINT.
24. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
25. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY THE CORING AND RESILIENT SEAL METHOD.
26. FIRE HYDRANT ASSEMBLIES INCLUDE THE APPROPRIATE SIZED TEE (WITH KICKER), 6ó LINE TO HYDRANT, 6ó GATE VALVE (WITH VALVE BOX), AND FIRE HYDRANT (WITH KICKER). HYDRANTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
27. SIAMESE STAND PIPE TO BE GALVANIZED STEEL.
28. ALL FIRE LINES SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF THE PROJECT.

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LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING

LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
GEORGE B.
HUDDLESTON III
NUMBER
PE-2017035508
PROFESSIONAL ENGINEER
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C2.0

DRAWING NAME
NOTES

HEREFORD · DOOLEY
ARCHITECTS

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LICENSE NUMBER: 123456789101112

PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019 △

TITLE
NOTES

SHEET
C2.0

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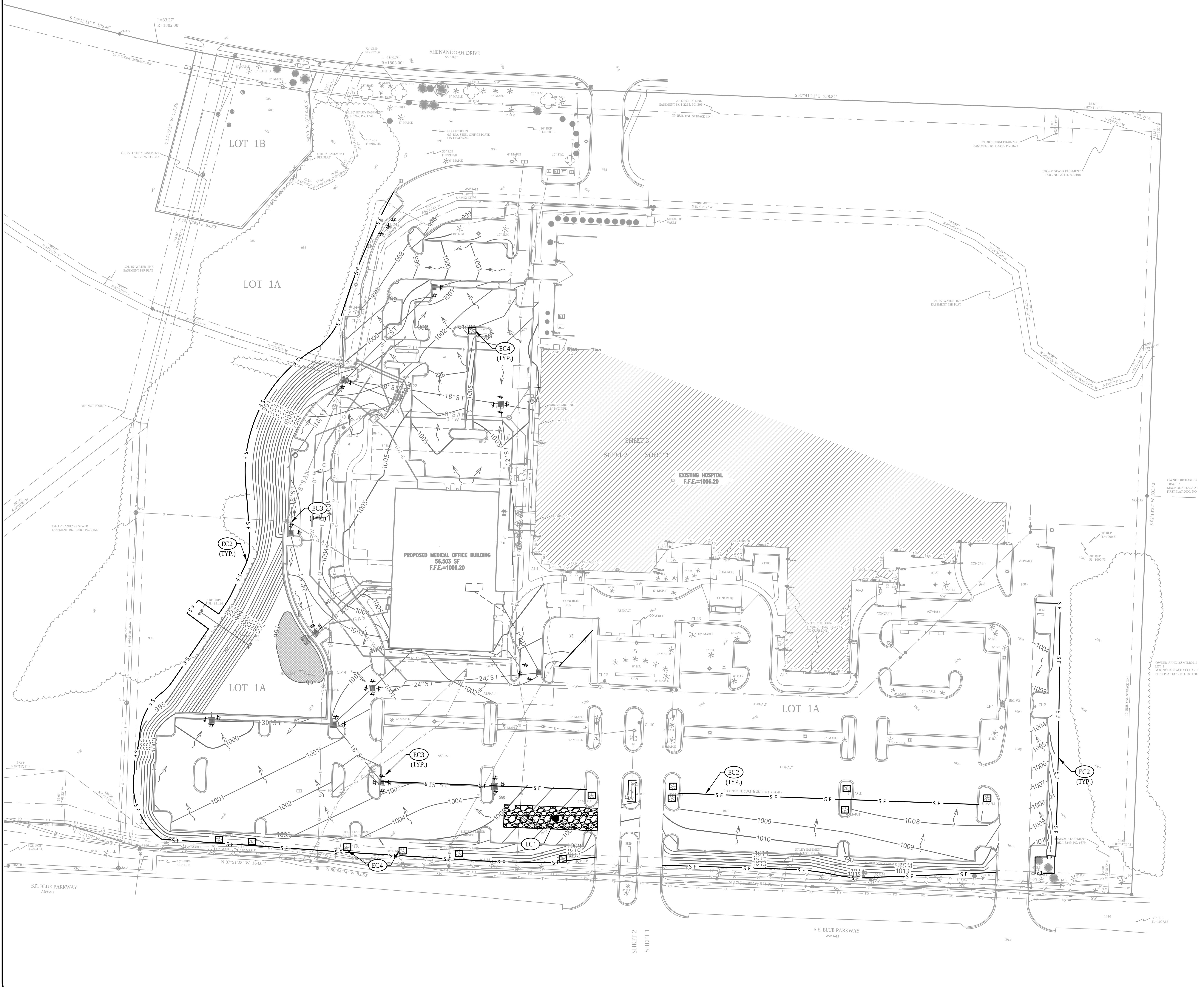

EROSION CONTROL KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / C3.1
EC2	SILT FENCE	3 / C3.1
EC3	INLET PROTECTION	4 / C3.1
EC4	TREE PROTECTION	2 / C3.1

## PROPOSED FEATURES LEGEND

SILT FENCE	—— S F ——
TREE PROTECTION	—— T P ——
INLET PROTECTION	■
TEMPORARY CONSTRUCTION ENTRANCE	▨

NOTES

1. SEE SHEET C2.0 FOR EROSION CONTROL NOTES.

N

811
Know what's below.
Call before you dig.

0 82.02 164.04 328.08 492.13
GRAPHIC SCALE

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DRAWING NAME
EROSION
CONTROL PLAN

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SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

1. INSPECTIONS DESCRIBED IN PARAGRAPHS 2, 3 AND 4 BELOW, SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE) OR DUE TO EXTREME DROUGHT, SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING OR PRECIPITATION RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CHANGE THE INSPECTION FREQUENCY AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE.

2. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.

3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SITE'S DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.

4. OUTFALL POINTS (WHERE DISCHARGES LEAVE THE SITE AND/OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

5. BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.

6. BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS SWPPP SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP, BUT IN NO CASE LATER THAN 14 DAYS FOLLOWING THE INSPECTION.

7. ALL INSPECTIONS SHALL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT FOR ALL CONSTRUCTION SITES. INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED WITHIN 10 DAYS OF THE REQUEST.

8. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES.

9. SUBSEQUENT OPERATOR(S) (PRIMARY PERMITTEES) WHO HAVE OBTAINED COVERAGE UNDER THE NPDES GENERAL PERMIT SHOULD CONDUCT TWICE WEEKLY INSPECTIONS, UNLESS THEIR PORTION(S) OF THE SITE HAS BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS OR DUE TO EXTREME DROUGHT AS STATED IN PARAGRAPH A) ABOVE. THE PRIMARY PERMITTEE (SUCH AS A DEVELOPER) IS NO LONGER REQUIRED TO CONDUCT INSPECTIONS OF PORTIONS OF THE SITE THAT ARE COVERED BY A SUBSEQUENT PRIMARY PERMITTEE .

SITE ASSESSMENT NOTES

1. THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
   - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
   - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) OR
   - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.

2. QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE DONE BY PERFORMING SITE ASSESSMENT AT A CONSTRUCTION SITE. THE SITE ASSESSMENT SHALL BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS, WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE.

3. AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPSC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED.

4. THE SITE ASSESSMENT FINDINGS SHALL BE DOCUMENTED AND THE DOCUMENTATION KEPT WITH THE SWPPP REPORT AT THE SITE. AT A MINIMUM, THE DOCUMENTATION SHALL INCLUDE INFORMATION INCLUDED IN THE INSPECTION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT. THE DOCUMENTATION MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE INDIVIDUAL PERFORMING THE SITE ASSESSMENT AND THE FOLLOWING CERTIFICATION:

   "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

5. THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.

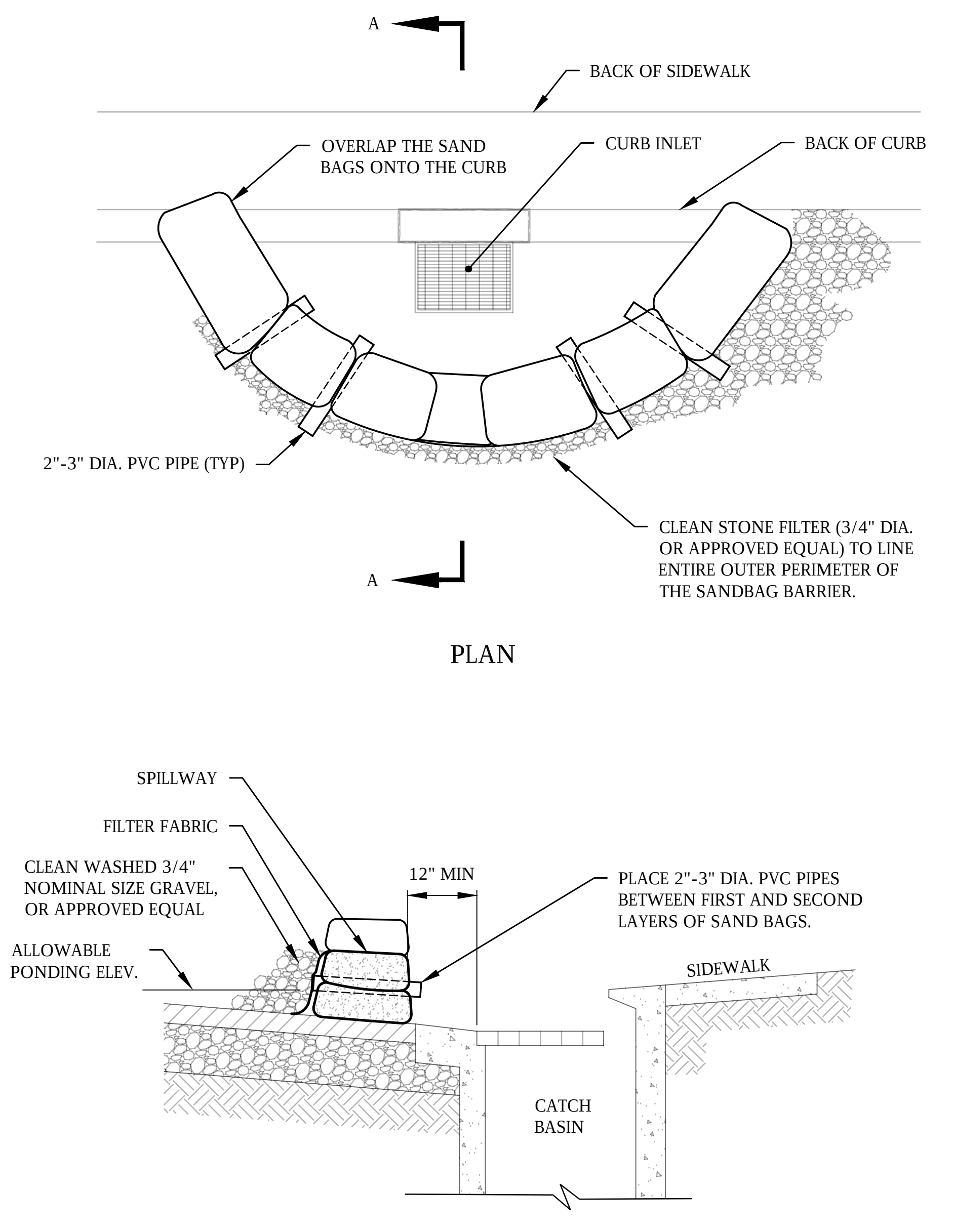
NOTE:

CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE.
THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

1. A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).

2. THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).

3. DESCRIPTION OF PROJECT (FURNISHED BY CONSTRUCTION MANAGER).


A
BACK OF SIDEWALK
OVERLAP THE SAND BAGS ONTO THE CURB
CURB INLET
BACK OF CURB
2"-3" DIA. PVC PIPE (TYP)
CLEAN STONE FILTER (3/4" DIA. OR APPROVED EQUAL) TO LINE ENTIRE OUTER PERIMETER OF THE SANDBAG BARRIER.
A
PLAN
SPILLWAY
FILTER FABRIC
CLEAN WASHED 3/4" NOMINAL SIZE GRAVEL, OR APPROVED EQUAL
ALLOWABLE PONDING ELEV.
12" MIN
PLACE 2"-3" DIA. PVC PIPES BETWEEN FIRST AND SECOND LAYERS OF SAND BAGS.
SIDEWALK
CATCH BASIN
SECTION A-A

NOTES:

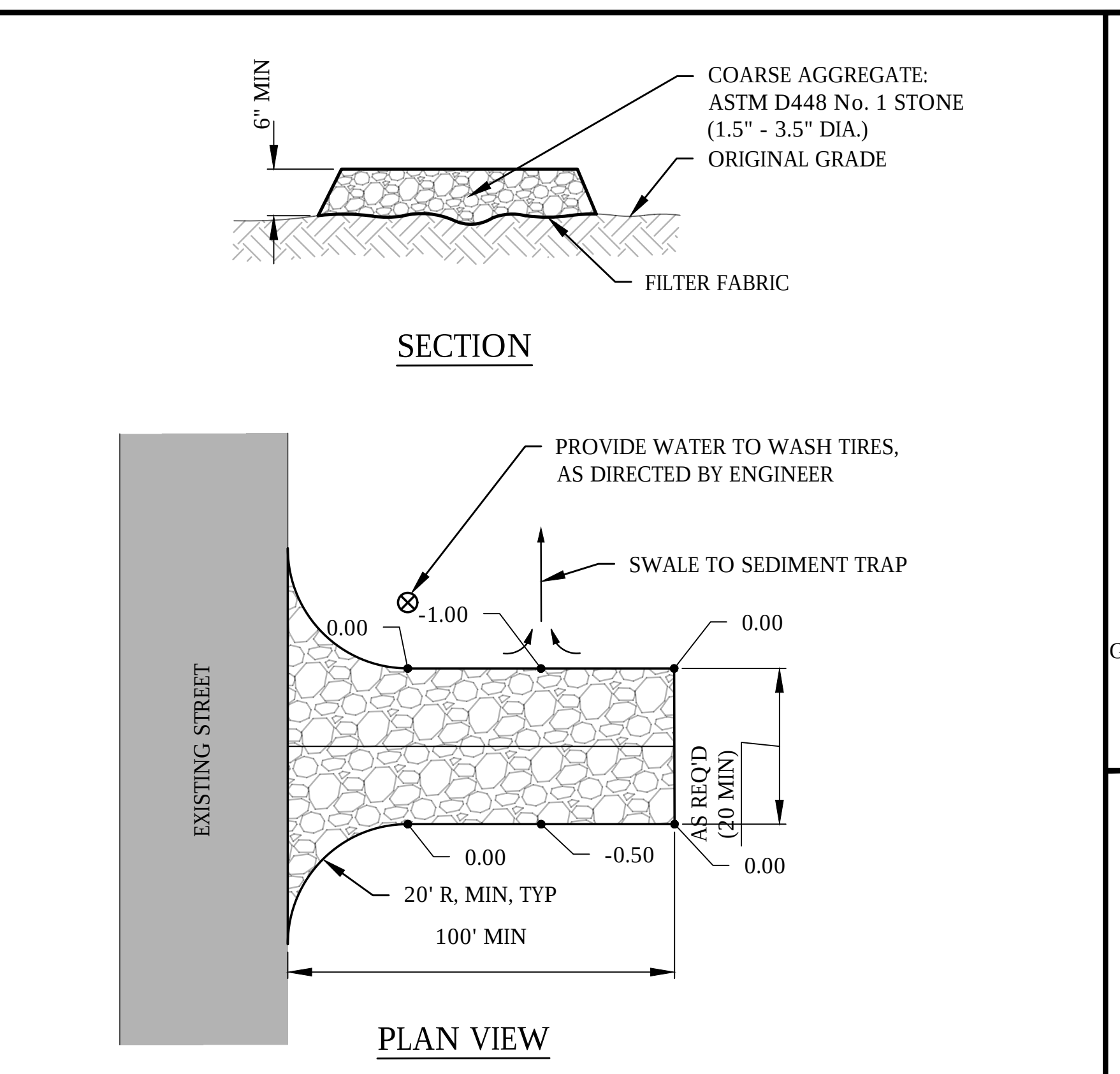
1. NOT APPLICABLE IN AREAS OF HIGH SILTS AND CLAYS WITHOUT USE OF FILTER FABRIC LAYER.

2. PERIODICALLY REMOVE AND REPLACE GRAVEL. OLD GRAVEL MAY BE USED AS BACKFILL MATERIAL IF APPROVED BY THE ENGINEER.

SAND BAG CURB INLET PROTECTION

NO SCALE

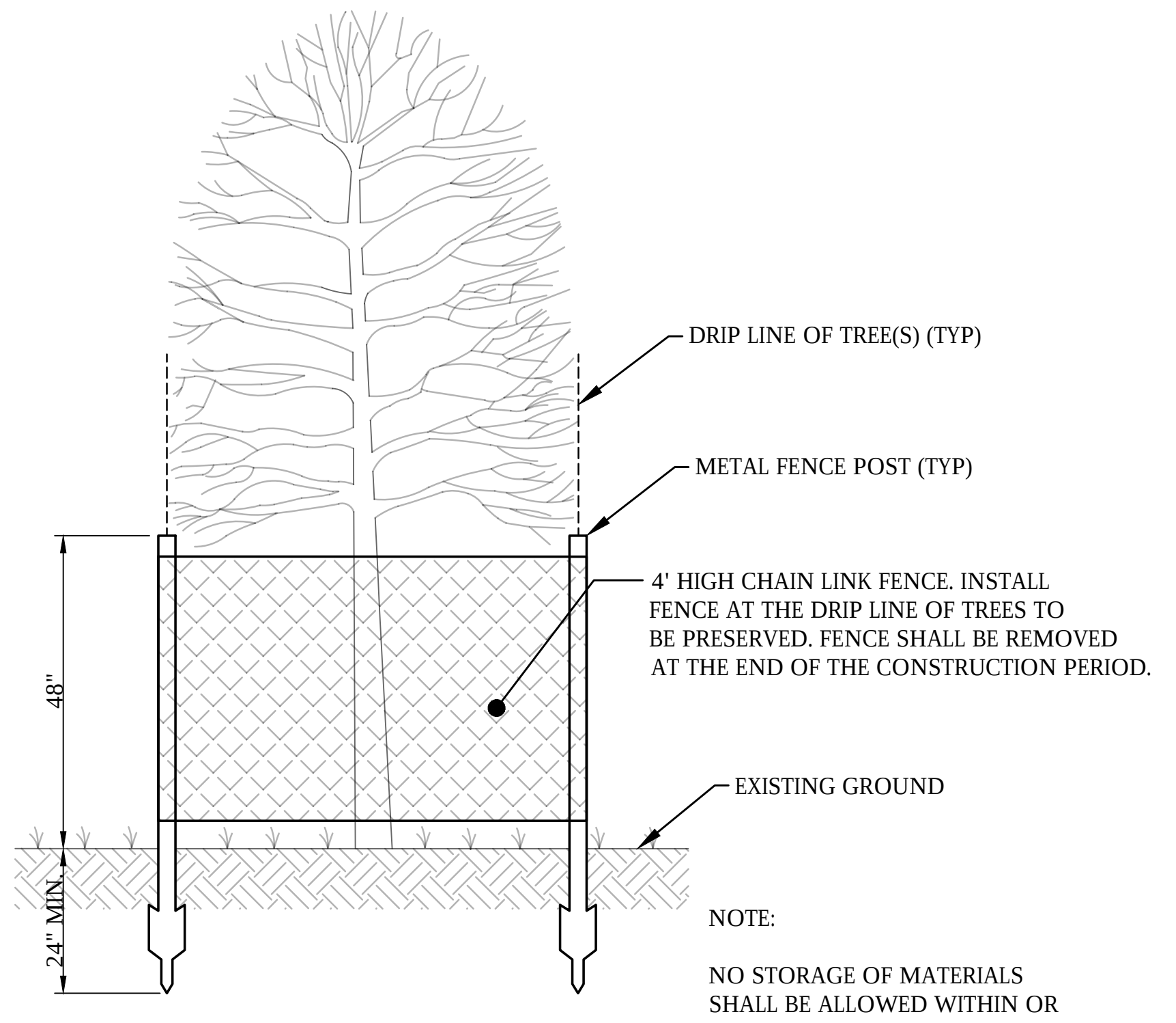
4



TEMPORARY CONSTRUCTION ENTRANCE

NO SCALE

1


DRIP LINE OF TREE(S) (TYP)
METAL FENCE POST (TYP)
4' HIGH CHAIN LINK FENCE. INSTALL FENCE AT THE DRIP LINE OF TREES TO BE PRESERVED. FENCE SHALL BE REMOVED AT THE END OF THE CONSTRUCTION PERIOD.
48"
EXISTING GROUND
24" MIN.

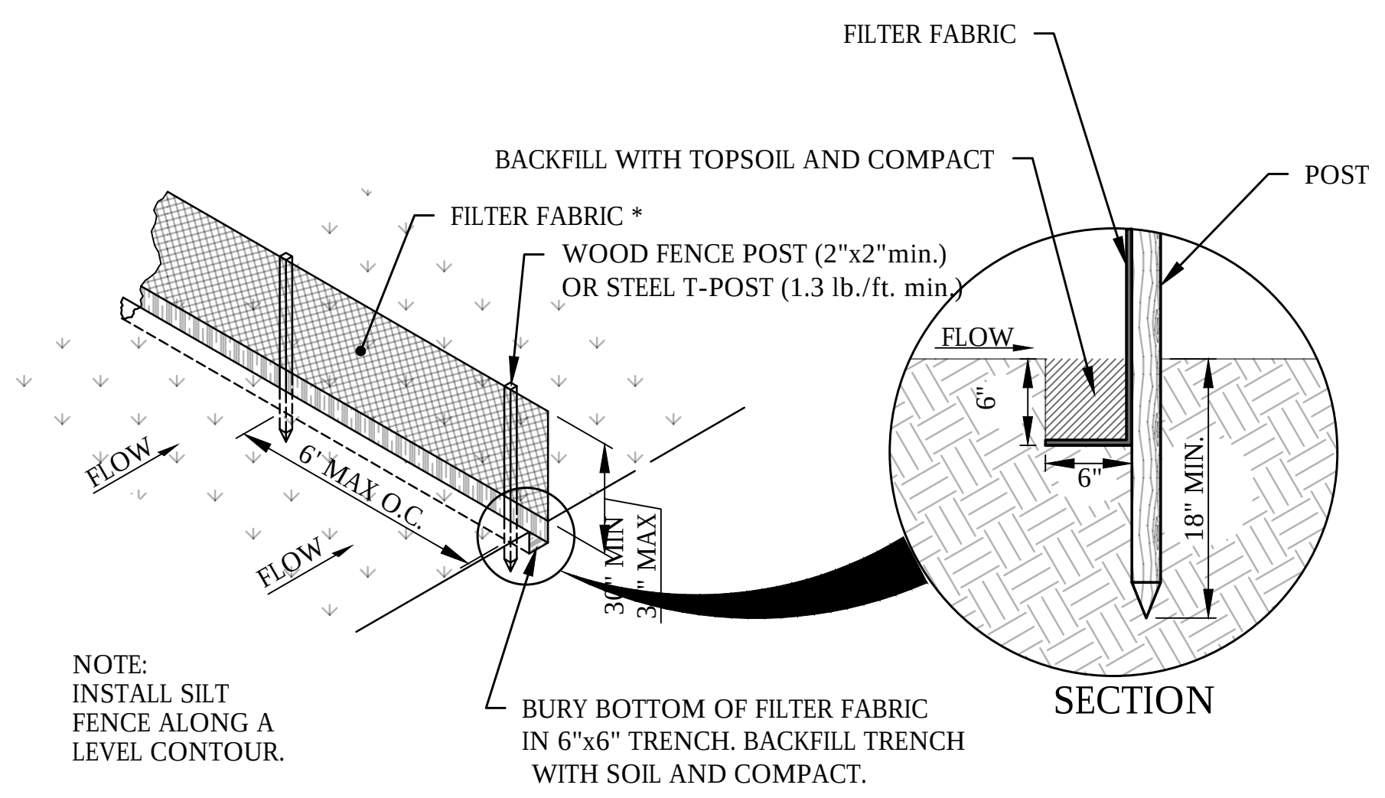
NOTE:

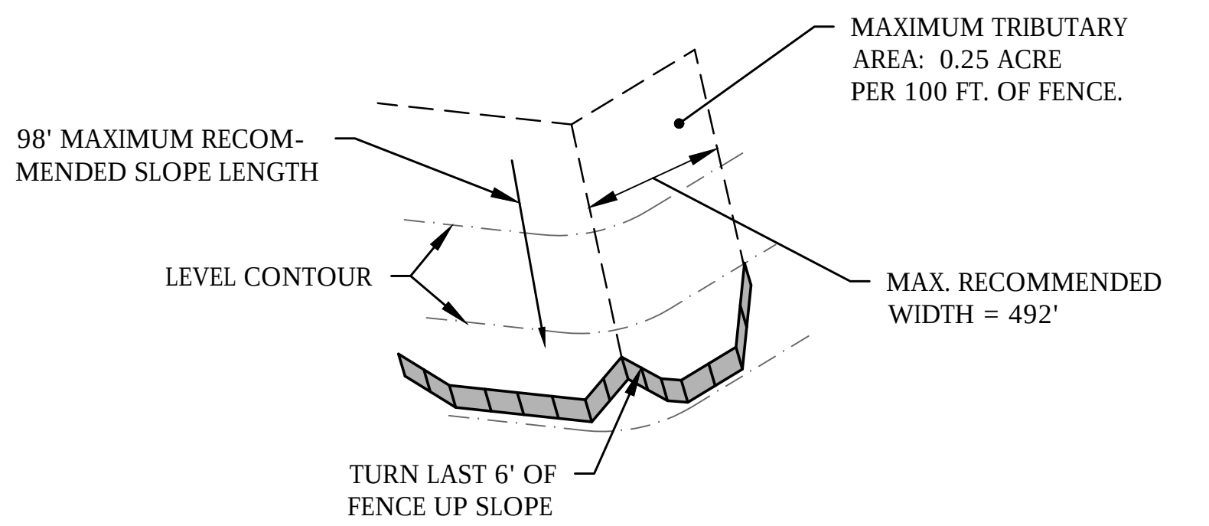
NO STORAGE OF MATERIALS SHALL BE ALLOWED WITHIN OR AGAINST THE TREE PROTECTION FENCING.

TREE PROTECTION

NO SCALE

2


FILTER FABRIC
BACKFILL WITH TOPSOIL AND COMPACT
POST
FILTER FABRIC *
WOOD FENCE POST (2"x2"min.) OR STEEL T-POST (1.3 lb./ft. min.)
FLOW
FLOW
6' MAX O.C.
30" MIN
36" MAX
FLOW
6"
6"
18" MIN.
SECTION
NOTE: INSTALL SILT FENCE ALONG A LEVEL CONTOUR.
BURY BOTTOM OF FILTER FABRIC IN 6"x6" TRENCH. BACKFILL TRENCH WITH SOIL AND COMPACT.


MAXIMUM TRIBUTARY AREA: 0.25 ACRE PER 100 FT. OF FENCE.
98' MAXIMUM RECOMMENDED SLOPE LENGTH
LEVEL CONTOUR
MAX. RECOMMENDED WIDTH = 492'
TURN LAST 6' OF FENCE UP SLOPE

SPECIFICATIONS	
Tensile Strength (Lbs. Min.) (1) (ASTM D-4632)	Warp-120 Fill -100
Elongation (%Max.) (ASTM D-4632)	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	#30
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	25
Ultraciolet Stability (2) (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphram Bursting Strength Tester)	175
Minimum Fabric Width (Inches)	36

SILT FENCE (TCP-13)

NO SCALE

3

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LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON III
NUMBER PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C3.1

DRAWING NAME
EROSION CONTROL DETAILS

HEREFORD · DOOLEY
ARCHITECTS

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STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019
△

TITLE
EROSION CONTROL DETAILS

SHEET
C3.1

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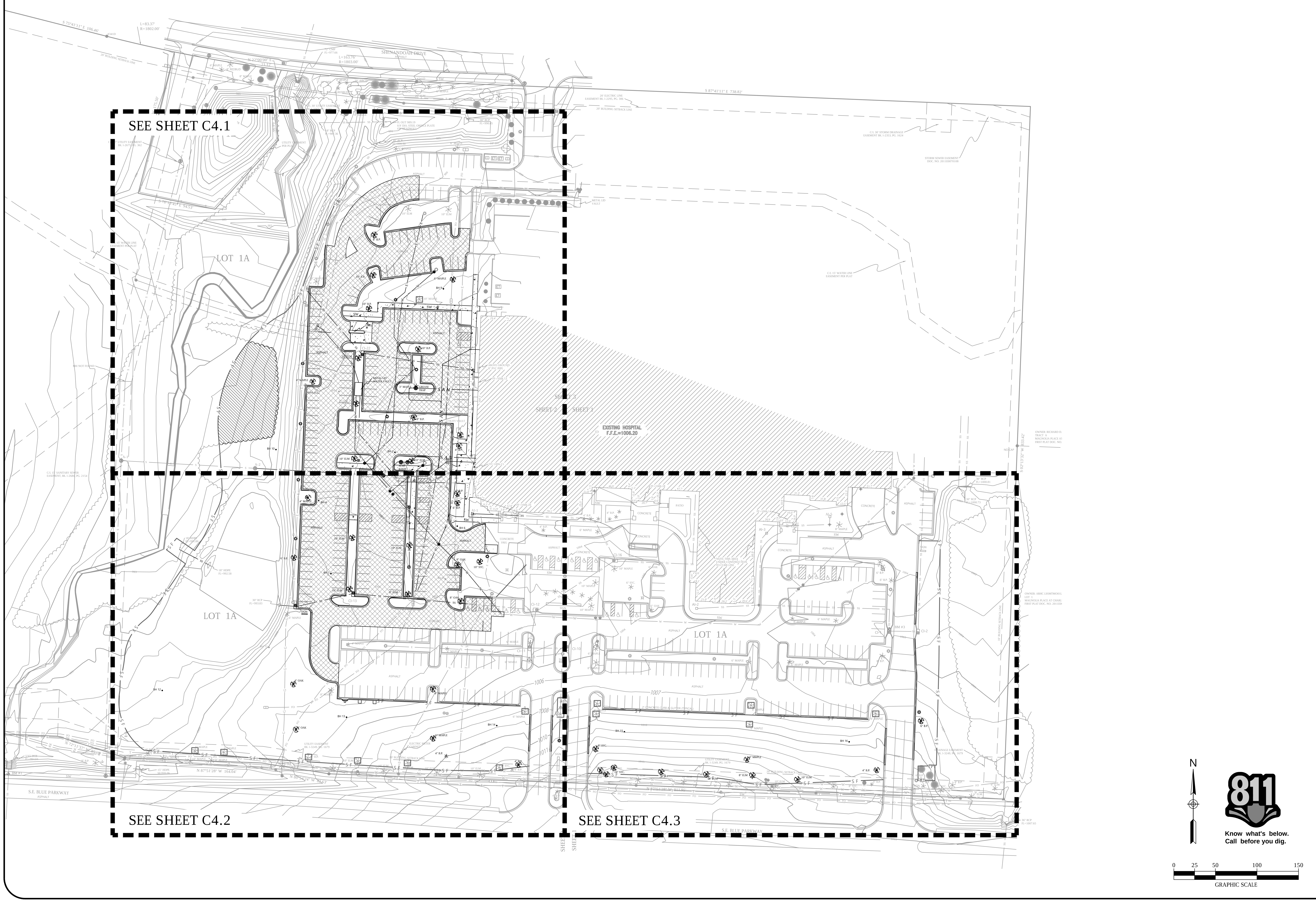

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PROJECT NUMBER
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DRAWING NUMBER
C4.0

DRAWING NAME
OVERALL
DEMOLITION PLAN

HEREFORD & DOOLEY
ARCHITECTS

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TITLE
OVERALL
DEMOLITION PLAN

SHEET
C4.0

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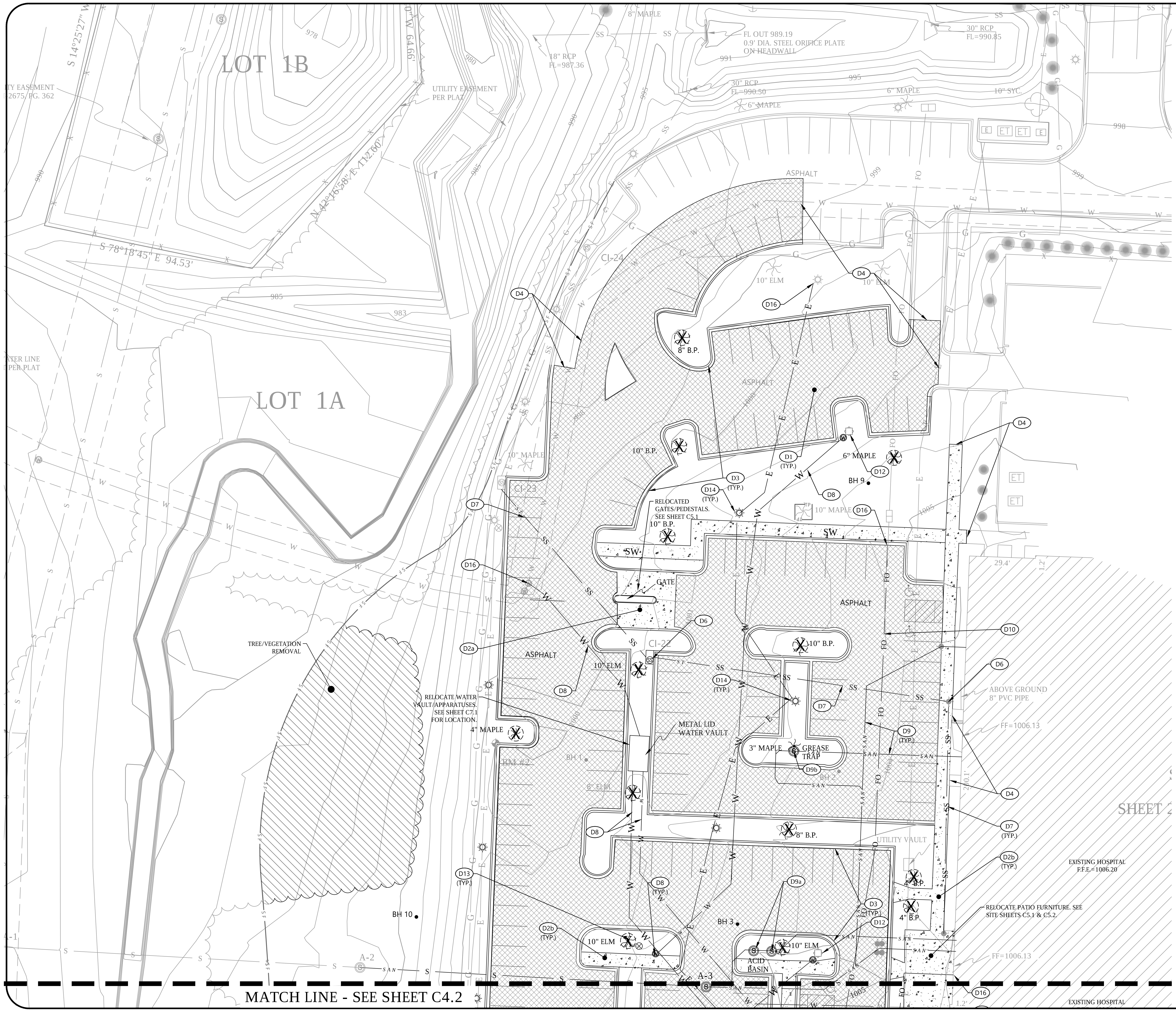


DEMOLITION KEYNOTES

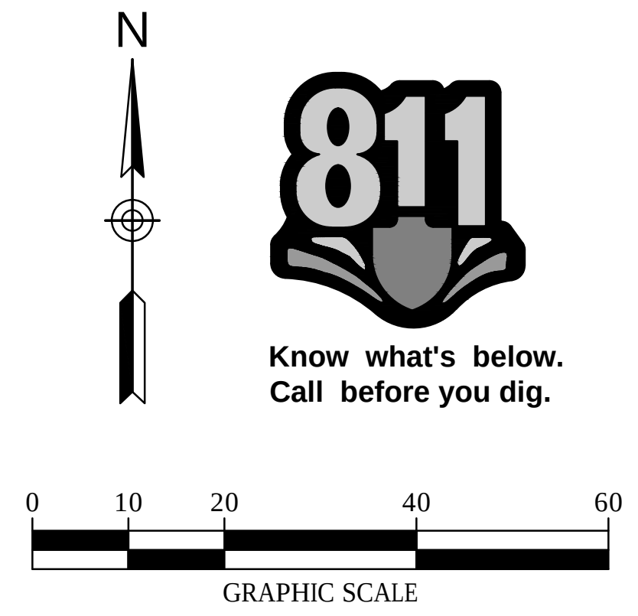
CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D2a	REMOVE EXISTING CONCRETE PAVEMENT
D2b	REMOVE EXISTING CONCRETE SIDEWALK
D3	REMOVE EXISTING CONCRETE CURB
D4	EVENLY SAWCUT
D6	REMOVE EXISTING DRAINAGE STRUCTURE
D7	REMOVE EXISTING STORM LINE
D8	REMOVE EXISTING WATERLINE & APPURTENANCES
D9	REMOVE EXISTING SANITARY SEWER LINE
D9a	RELOCATE EXISTING ACID BASIN (SEE SHEET C7.1)
D9b	RELOCATE EXISTING GREASE TRAP (SEE SHEET C7.1)
D10	REMOVE EXISTING UTILITY LINE & APPURTENANCES
D11	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE
D12	EXISTING FIRE HYDRANT TO BE RELOCATED
D13	REMOVE EXISTING TREE
D14	REMOVE EXISTING LIGHT POLE
D15	REMOVE EXISTING GATE
D16	BEGIN/END DEMOLITION OF UTILITY LINE

PROPOSED FEATURES LEGEND

BUILDING TO REMOVE	▨
CONCRETE TO REMOVE	⬚
ASPHALT PAVEMENT TO REMOVE	▦
VEGETATION/TREES TO REMOVE	▧
TREES TO BE REMOVED	⊗
SILT FENCE	—SF—
TREE PROTECTION	—T P—

NOTES:

1. SEE SHEET C2.0 FOR DEMOLITION NOTES.



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GEORGE B. HUDDLESTON, III
NUMBER
PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C4.1

DRAWING NAME
DEMOLITION PLAN

HEREFORD ā DOOLEY
ARCHITECTS

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PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019
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TITLE
DEMOLITION PLAN

SHEET
C4.1

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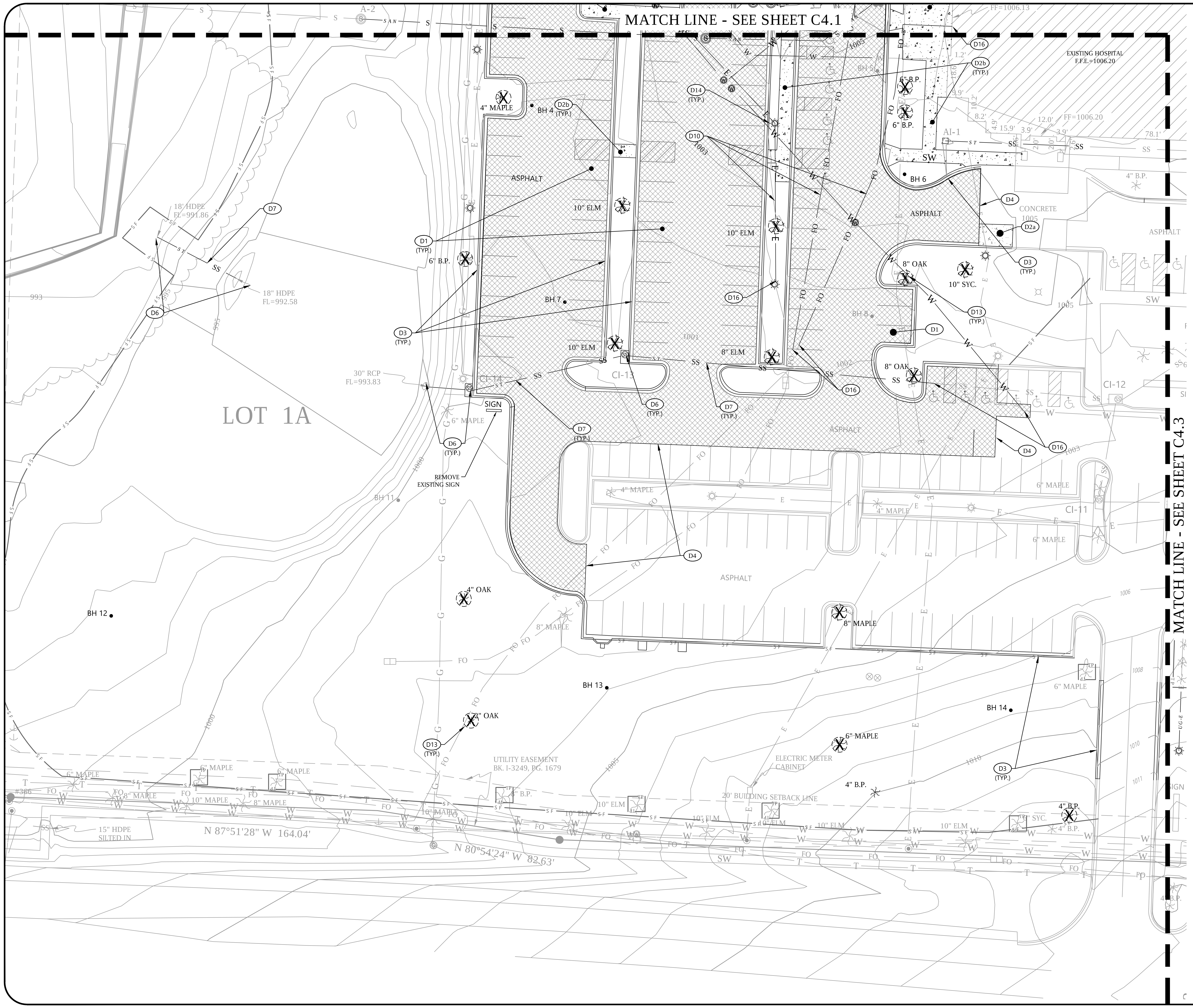

DEMOLITION KEYNOTES	
CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D2a	REMOVE EXISTING CONCRETE PAVEMENT
D2b	REMOVE EXISTING CONCRETE SIDEWALK
D3	REMOVE EXISTING CONCRETE CURB
D4	EVENLY SAWCUT
D6	REMOVE EXISTING DRAINAGE STRUCTURE
D7	REMOVE EXISTING STORM LINE
D8	REMOVE EXISTING WATERLINE & APPURTENANCES
D9	REMOVE EXISTING SANITARY SEWER LINE
D9a	RELOCATE EXISTING ACID BASIN (SEE SHEET C7.1)
D9b	RELOCATE EXISTING GREASE TRAP (SEE SHEET C7.1)
D10	REMOVE EXISTING UTILITY LINE & APPURTENANCES
D11	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE
D12	EXISTING FIRE HYDRANT TO BE RELOCATED
D13	REMOVE EXISTING TREE
D14	REMOVE EXISTING LIGHT POLE
D15	REMOVE EXISTING GATE
D16	BEGIN/END DEMOLITION OF UTILITY LINE

PROPOSED FEATURES LEGEND

BUILDING TO REMOVE	▨
CONCRETE TO REMOVE	░
ASPHALT PAVEMENT TO REMOVE	▩
VEGETATION/TREES TO REMOVE	▧
TREES TO BE REMOVED	ⓧ
SILT FENCE	—SF—
TREE PROTECTION	—T P—

NOTES:

1. SEE SHEET C2.0 FOR DEMOLITION NOTES.

N

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PROJECT NUMBER
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DRAWING NUMBER
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DRAWING NAME
DEMOLITION PLAN

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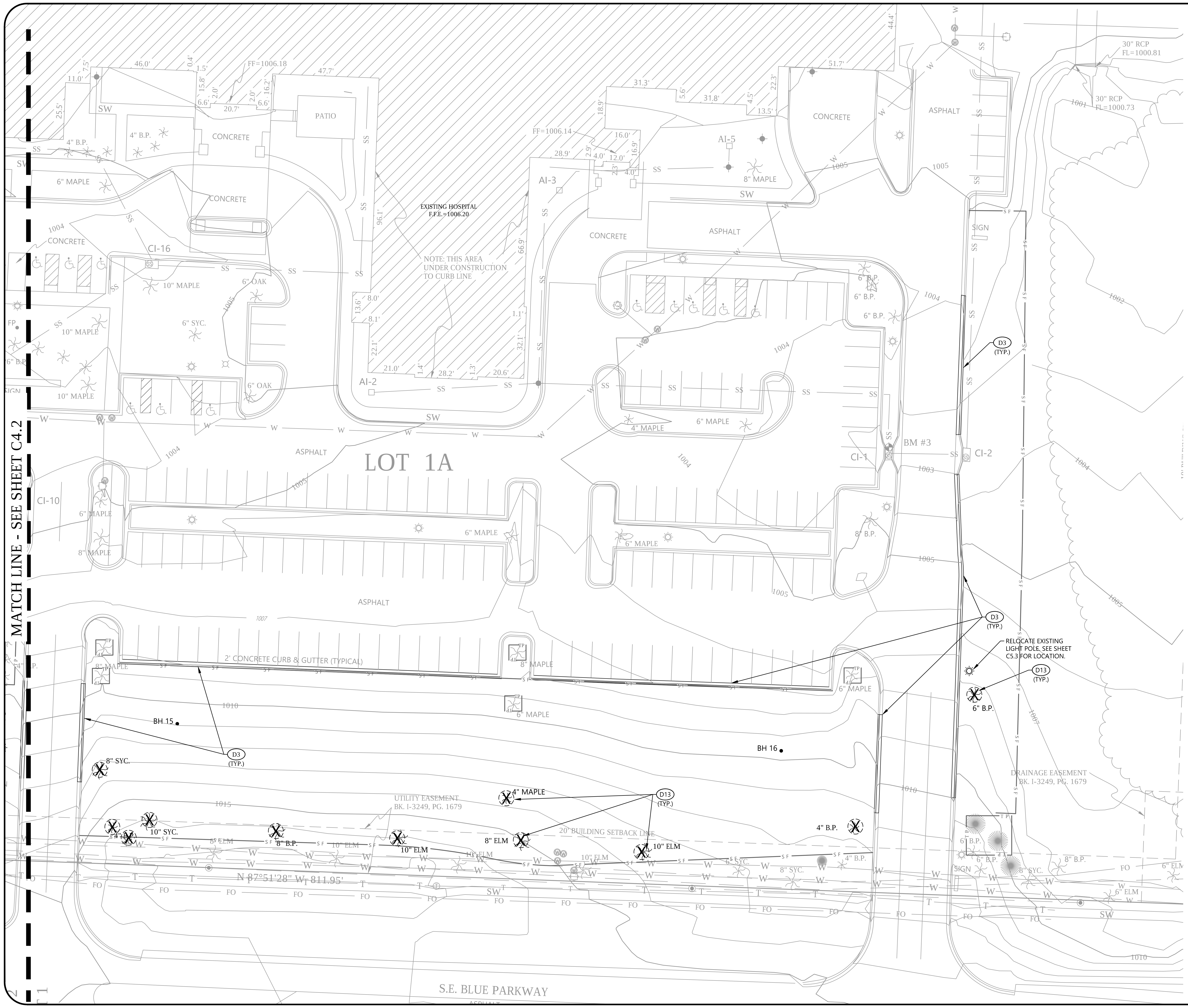

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CONCRETE TO REMOVE	▒
ASPHALT PAVEMENT TO REMOVE	▩
VEGETATION/TREES TO REMOVE	▧
TREES TO BE REMOVED	ⓧ
SILT FENCE	—SF—
TREE PROTECTION	—T P—

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STATE OF MISSOURI
GEORGE B.
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NUMBER
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PROFESSIONAL ENGINEER
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
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PROJECT NUMBER
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DRAWING NUMBER
C4.3

DRAWING NAME
DEMOLITION PLAN

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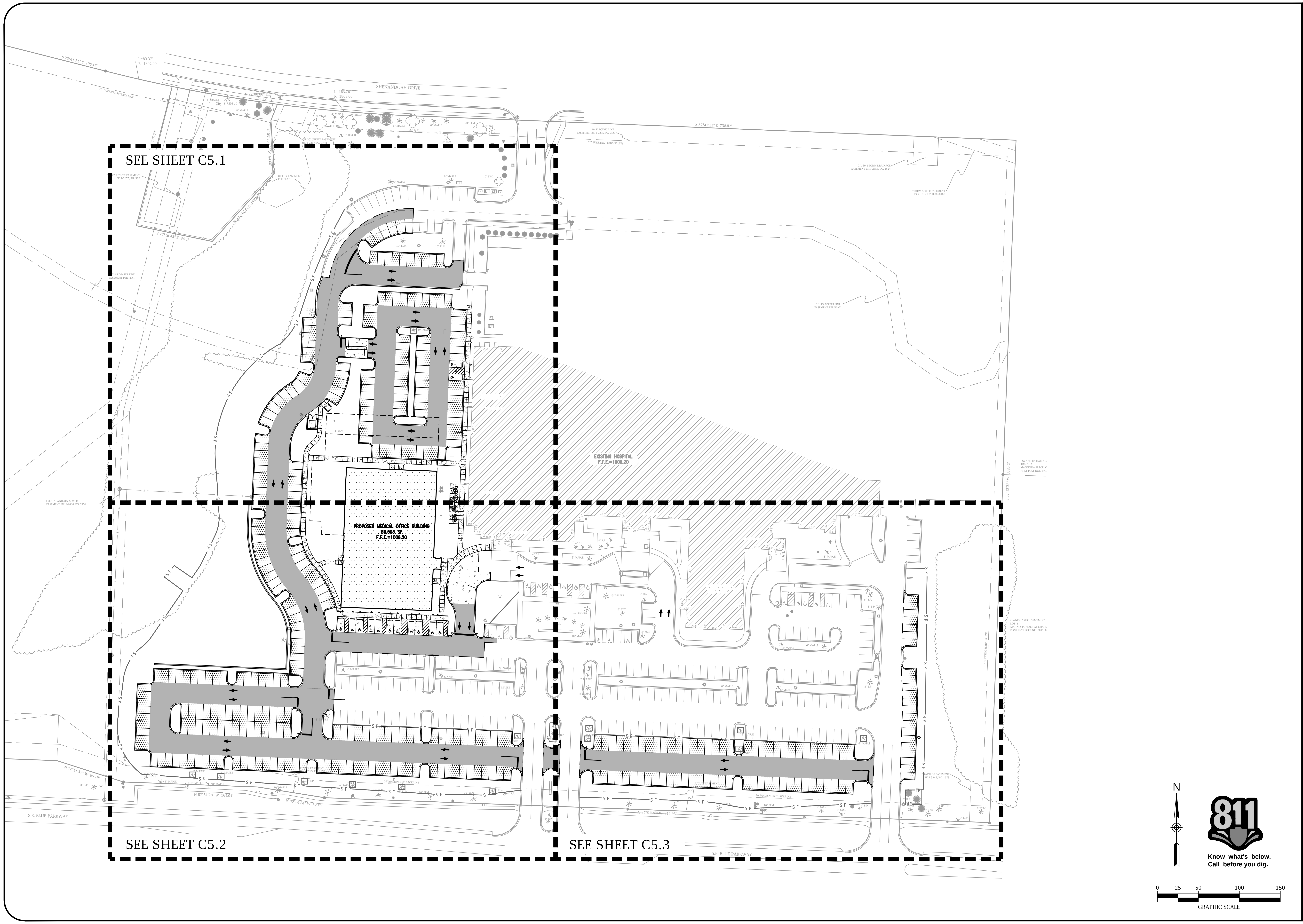

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NO.	DATE	DESCRIPTION	BY	CHK	APV
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PROJECT NUMBER
527116043

DRAWING NUMBER
C5.0

DRAWING NAME
OVERALL SITE LAYOUT PLAN

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DATES OF ISSUANCE
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TITLE
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SHEET
C5.0

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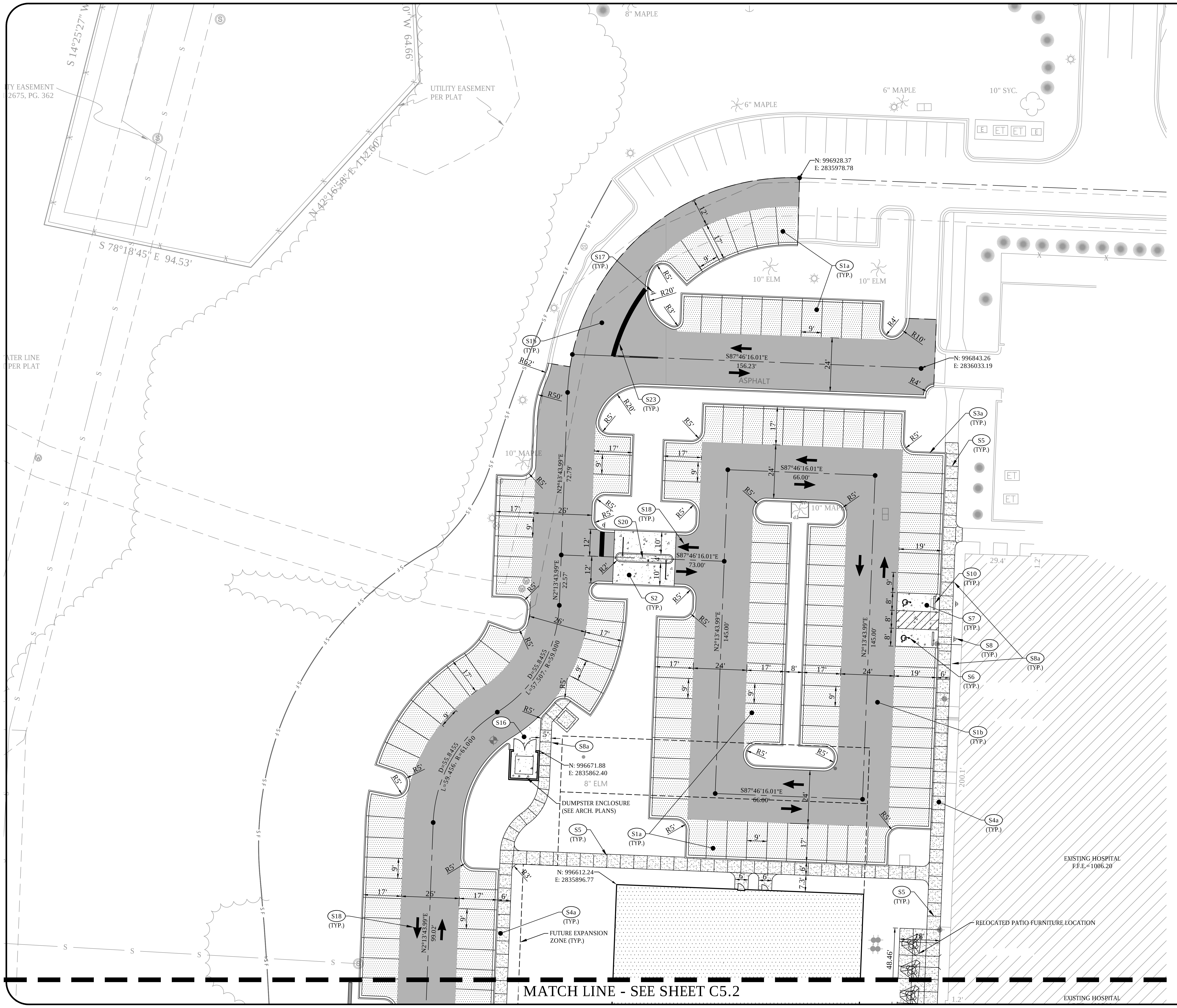


SITE LAYOUT KEYNOTES

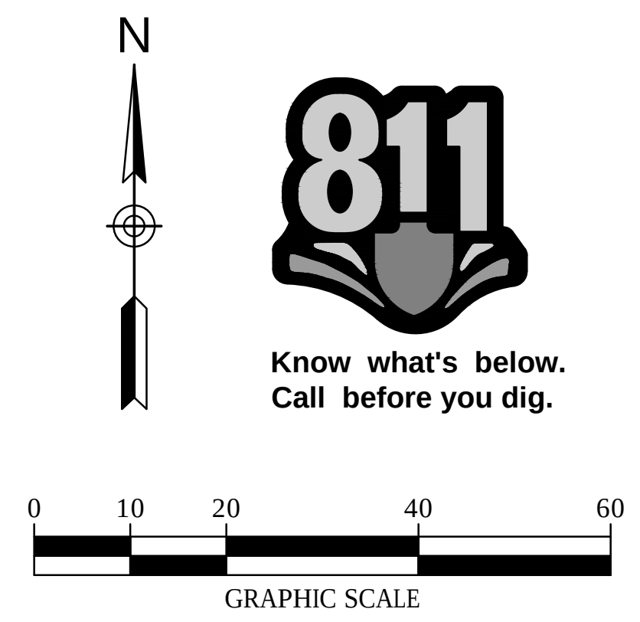
CODE	DESCRIPTION	DET #/SHT #
S1a	ASPHALT PAVEMENT - LIGHT DUTY	1 / C8.0
S1b	ASPHALT PAVEMENT - HEAVY DUTY	1 / C8.0
S2	CONCRETE PAVEMENT	2 / C8.0
S3a	CONCRETE CURB & GUTTER (CG-1)	GEN-4 / C9.0
S4a	CONCRETE SIDEWALK	6 / C8.0
S4c	CONCRETE SIDEWALK AT CURB & GUTTER	6 / C8.0
S5	SIDEWALK JOINTS	3 / C8.0
S6	ACCESSIBLE SYMBOL	12 / C8.0
S7	ACCESSIBLE PARKING SPACE	5 / C8.0
S8	ACCESSIBLE PARKING SIGN	7 / C8.0
S8a	SIDEWALK TRANSITION	5 / C8.1
S9	BOLLARD	10 / C8.1
S10	CONCRETE WHEELSTOP	8 / C8.0
S11	SIDEWALK RAMP	9 / C8.1
S16	CONCRETE DUMPSTER PAD	6 / C8.1
S17	"STOP" SIGN	11 / C8.0
S18	DIRECTIONAL ARROWS	1 / C9.0
S19	PEDESTRIAN CROSSWALK	9 / C8.0
S20	RESERVED PARKING GATE ISLAND	7 / C8.1
S23	2' PAINTED STOP BAR	4 / C8.0

PROPOSED FEATURES LEGEND

BUILDING	⬚
CONCRETE PAVEMENT	▨
CONCRETE SIDEWALK	▨
HEAVY DUTY PAVEMENT	▩
LIGHT DUTY PAVEMENT	⬚
PAINTED STRIPE	───
CONCRETE CURB	═══
CENTERLINE	── ‒ ──
SILT FENCE	───SF───
TREE PROTECTION	───T P───

NOTES

1. SEE SHEET C2.0 FOR GENERAL NOTES.



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LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON, III
NUMBER PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
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PROJECT NUMBER
527116043

DRAWING NUMBER
C5.1

DRAWING NAME
SITE LAYOUT PLAN

HEREFORD DOOLEY
ARCHITECTS

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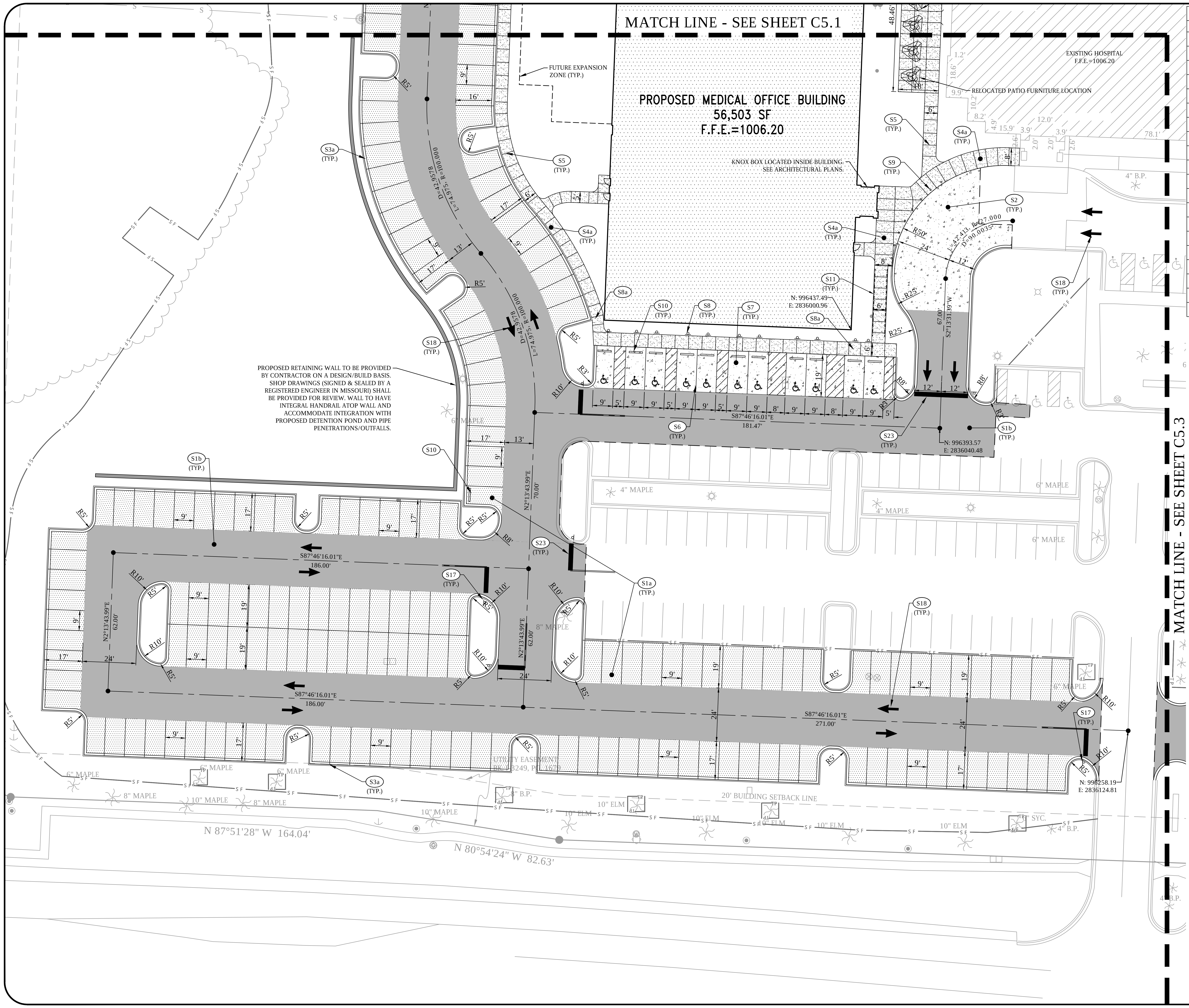
SHEET
C5.1


MATCH LINE - SEE SHEET C5.1
MATCH LINE - SEE SHEET C5.3
PROPOSED MEDICAL OFFICE BUILDING
56,503 SF
F.F.E.=1006.20
KNOX BOX LOCATED INSIDE BUILDING. SEE ARCHITECTURAL PLANS.
FUTURE EXPANSION ZONE (TYP.)
EXISTING HOSPITAL F.F.E.=1006.20
RELOCATED PATIO FURNITURE LOCATION
PROPOSED RETAINING WALL TO BE PROVIDED BY CONTRACTOR ON A DESIGN/BUILD BASIS. SHOP DRAWINGS (SIGNED & SEALED BY A REGISTERED ENGINEER IN MISSOURI) SHALL BE PROVIDED FOR REVIEW. WALL TO HAVE INTEGRAL HANDRAIL ATOP WALL AND ACCOMMODATE INTEGRATION WITH PROPOSED DETENTION POND AND PIPE PENETRATIONS/OUTFALLS.
N: 996437.49
E: 2836000.96
N: 996393.57
E: 2836040.48
N: 996258.19
E: 2836124.81
S87°46'16.01"E 181.47'
S87°46'16.01"E 186.00'
S87°46'16.01"E 271.00'
N2°13'43.99"E 70.00'
N2°13'43.99"E 62.00'
N 87°51'28" W 164.04'
N 80°54'24" W 82.63'
20' BUILDING SETBACK LINE
UTILITY EASEMENT

SITE LAYOUT KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
S1a	ASPHALT PAVEMENT - LIGHT DUTY	1 / C8.0
S1b	ASPHALT PAVEMENT - HEAVY DUTY	1 / C8.0
S2	CONCRETE PAVEMENT	2 / C8.0
S3a	CONCRETE CURB & GUTTER (CG-1)	GEN-4 / C9.0
S4a	CONCRETE SIDEWALK	6 / C8.0
S4c	CONCRETE SIDEWALK AT CURB & GUTTER	6 / C8.0
S5	SIDEWALK JOINTS	3 / C8.0
S6	ACCESSIBLE SYMBOL	12 / C8.0
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S9	BOLLARD	10 / C8.1
S10	CONCRETE WHEELSTOP	8 / C8.0
S11	SIDEWALK RAMP	9 / C8.1
S16	CONCRETE DUMPSTER PAD	6 / C8.1
S17	"STOP" SIGN	11 / C8.0
S18	DIRECTIONAL ARROWS	1 / C9.0
S19	PEDESTRIAN CROSSWALK	9 / C8.0
S20	RESERVED PARKING GATE ISLAND	7 / C8.1
S23	2' PAINTED STOP BAR	4 / C8.0

PROPOSED FEATURES LEGEND

BUILDING	░
CONCRETE PAVEMENT	░
CONCRETE SIDEWALK	░
HEAVY DUTY PAVEMENT	▓
LIGHT DUTY PAVEMENT	░
PAINTED STRIPE	─
CONCRETE CURB	═
CENTERLINE	─ - ─
SILT FENCE	──SF──
TREE PROTECTION	──T P──

NOTES

1. SEE SHEET C2.0 FOR GENERAL NOTES.

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DRAWING NUMBER
C5.2

DRAWING NAME
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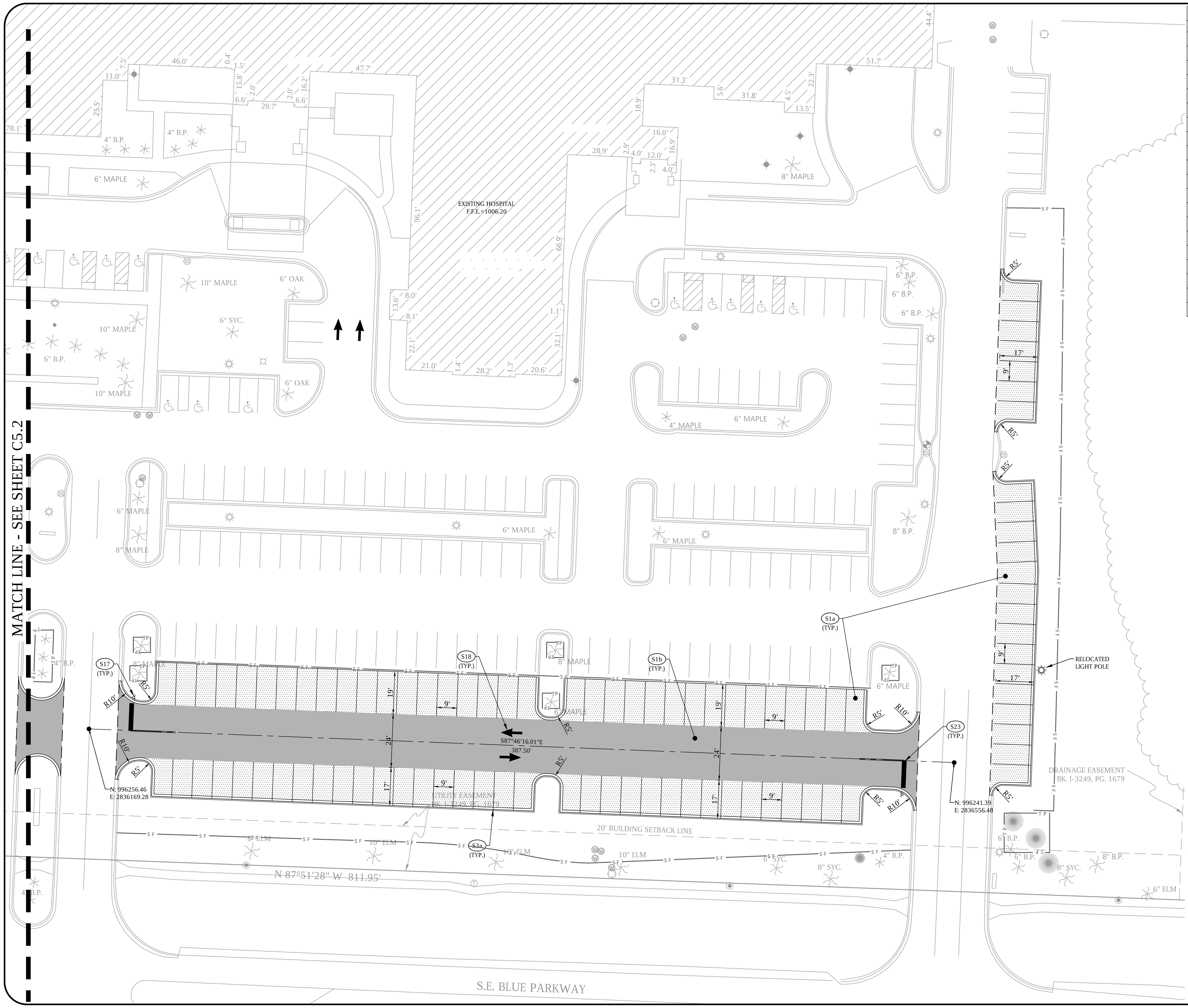

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PROPOSED FEATURES LEGEND

BUILDING	▨
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CONCRETE SIDEWALK	▨
HEAVY DUTY PAVEMENT	■
LIGHT DUTY PAVEMENT	▨
PAINTED STRIPE	—
CONCRETE CURB	—
CENTERLINE	— · —
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TREE PROTECTION	—T P—

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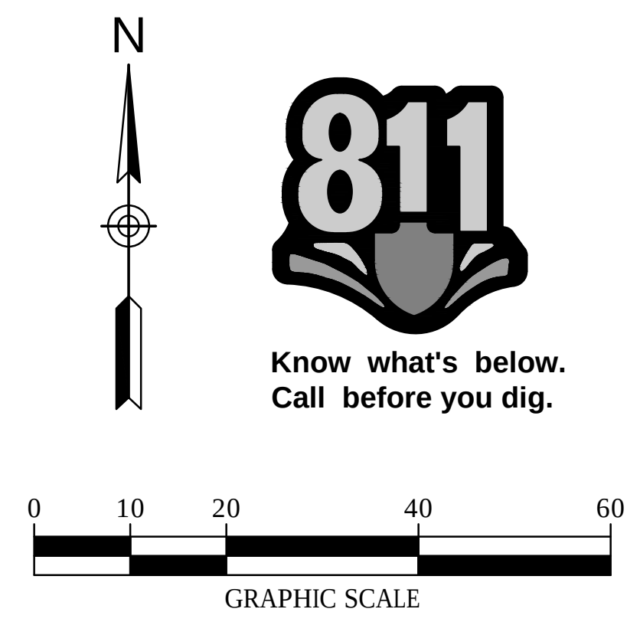

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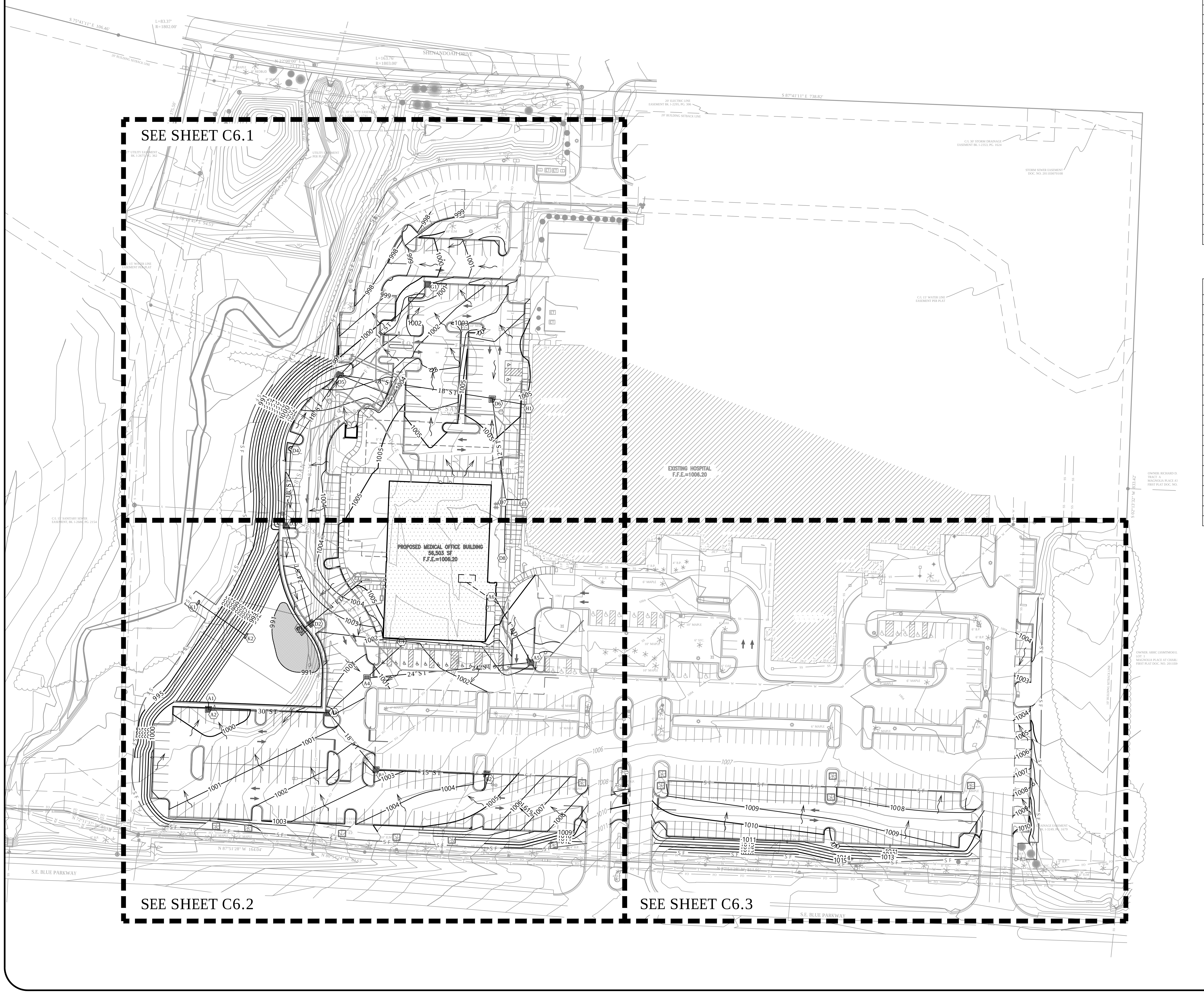

PROPOSED DRAINAGE STRUCTURES

CODE	STRUCTURE		DEPTH	ELEVATION	
	DESCRIPTION	DETAIL		TOP OF GRATE	INVERT
A1	PIPE END	- -	- -	- -	992.00
A2	CATCH BASIN	STM-2 / C9.1	7.28	999.55	992.27
A3	CATCH BASIN	STM-2 / C9.1	5.91	1000.80	994.89
A4	CATCH BASIN	STM-2 / C9.1	4.71	1000.74	996.03
A5	CURB INLET	STM-1/ C9.1	3.65	1003.26	999.61
A6	CLEANOUT / ROOF DRAIN	4 / C8.1	3.99	1006.10	1002.11
B1	CURB INLET	STM-1/ C9.1	4.50	1002.64	998.14
B2	CURB INLET	STM-1/ C9.1	3.35	1003.89	1000.54
C1	CLEANOUT / ROOF DRAIN	4 / C8.1	4.27	1003.00	998.73
D1	PIPE END	- -	- -	- -	992.00
D2	CATCH BASIN	STM-2 / C9.1	9.48	1002.08	992.60
D3	CATCH BASIN	STM-2 / C9.1	6.97	1002.80	995.83
D4	JUNCTION MANHOLE	SAN-2 / C9.2	7.02	1003.68	996.66
D5	CURB INLET	STM-1/ C9.1	4.10	1001.34	997.24
D6	CATCH BASIN	STM-2 / C9.1	5.26	1004.17	998.91
D7	NDS DRAIN INLET	10 / C8.0	5.70	1005.71	1000.01
D8	NDS DRAIN INLET	10 / C8.0	5.13	1005.75	1000.62
EI	UTIL VAULT CONNECTION	C7.2	9.27	1005.40	996.13
F1	UTIL VAULT CONNECTION	C7.1	4.23	1003.45	999.22
G1	CURB INLET	STM-1/ C9.1	3.05	1000.70	997.65
H1	CLEANOUT / ROOF DRAIN	4 / C8.1	5.41	1006.10	1000.69
J1	CLEANOUT / ROOF DRAIN	4 / C8.1	5.16	1006.10	1000.94
K1	HEADWALL	8 / C8.1	- -	- -	991.86
K2	HEADWALL	8 / C8.1	- -	- -	992.30

PROPOSED STORM SEWER PIPE

FROM		TO		GRADE	DIAMETER (IN)	TYPE	LENGTH (L.F.)
CODE	INV.	CODE	INV.				
A2	992.27	A1	992.00	2.00%	30	RCP	14
A3	994.89	A2	992.27	2.00%	30	RCP	131
A4	996.03	A3	994.89	2.00%	24	RCP	57
A5	999.61	A4	996.03	2.00%	24	RCP	179
A6	1002.11	A5	999.61	3.00%	4	PVC	83
B1	998.14	A3	994.89	4.00%	18	RCP	81
B2	1000.54	B1	998.14	2.00%	18	RCP	120
C1	998.73	A4	996.03	4.50%	12	PVC	60
D2	992.60	D1	992.00	4.00%	24	RCP	15
D3	995.83	D2	992.60	3.00%	24	RCP	107
D4	996.66	D3	995.83	1.00%	18	RCP	84
D5	997.24	D4	996.66	0.60%	18	RCP	96
D6	998.91	D5	997.24	1.00%	18	RCP	167
D7	1000.01	D6	998.91	1.00%	12	PVC	110
D8	1000.62	D7	1000.01	1.00%	12	PVC	61
E1	996.13	D2	992.60	4.50%	4	PVC	78
F1	999.22	D5	997.24	3.50%	4	PVC	57
G1	997.65	D5	997.24	0.30%	18	RCP	137
H1	1000.69	D6	998.91	5.00%	8	PVC	36
J1	1000.94	D7	1000.01	5.00%	8	PVC	19
K2	992.30	K1	991.86	0.73%	18	RCP	60

TABLE 8.3
Bioretention Cell
Typical Maintenance Activities

Activity		Frequency
Establishment ***(1-3yrs)***		
	Watering plants *(plug and container plants in drought)*	1" per week as needed
	Weed control *(string-trim, mechanical removal, follar herbicide)*	Monthly
	Remove litter and debrise *(trash, leaves, mower, discharge, and sand)*	Monthly
	Monitor & repair erosion *(stablize soil, replace plants, secure edging)*	Monthly
	Check for standing water *(longer than design, any puddles, saturated soils)*	Monthly
	Add mulch *(moisture & weed control, 3" or less, dispose properly)*	Monthly
	Inspect drainage area *(parking lot sweeping, open dumpsters, etc)*	Monthly
	Replace dead plans *(use design species/size, maintain density)*	Annually, as needed
Maintenance ***(3+yrs, establishment activities may carry over, as needed)***		
	Vegetation cleanup *(string trim, prescribed burn, prune)*	Annually, spring or fall
	Evaluate plant composition *(woody invasion, grass/flower ratio, "right plant, right place")*	Annually
	Sediment removal *(pretreatement structures: forebay, swales)*	Annually
	Address animal damage *(Canada geese, muskrats, deer rubs)*	Annually
	Verify structural componenet function *(area inlet, valve lube, underdrains, outlet protection)*	Annually
Bioretention cell		
	Evaluate soils for nutrients, physical make-up	Annually
	Fortify edging material/adjacent landscape beds	Annually

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LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING

LEE'S SUMMIT, MISSOURI

GEORGE B.
HUDDLESTON III
NUMBER
PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C6.0

DRAWING NAME
OVERALL
GRADING PLAN

HEREFORD & DOOLEY
ARCHITECTS

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Lee's Summit Medical Center
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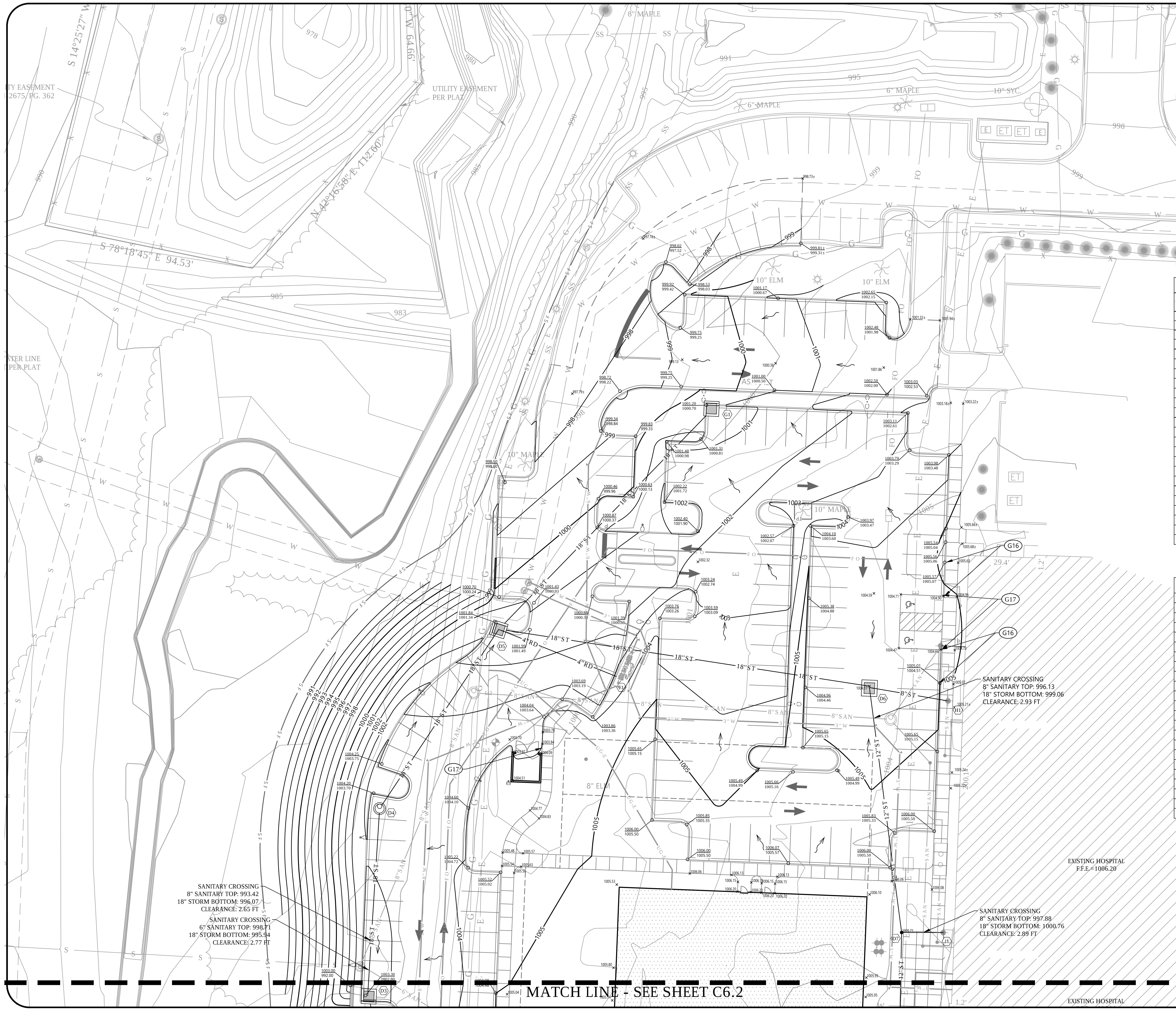

SANITARY CROSSING
8" SANITARY TOP: 993.42
18" STORM BOTTOM: 996.07
CLEARANCE: 2.65 FT

SANITARY CROSSING
6" SANITARY TOP: 998.71
18" STORM BOTTOM: 995.94
CLEARANCE: 2.77 FT

SANITARY CROSSING
8" SANITARY TOP: 996.13
18" STORM BOTTOM: 999.06
CLEARANCE: 2.93 FT

SANITARY CROSSING
8" SANITARY TOP: 997.88
18" STORM BOTTOM: 1000.76
CLEARANCE: 2.89 FT

GRADING & DRAINAGE KEYNOTES

G16	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 15 FEET
G17	FLUSH CONDITION

PROPOSED FEATURES LEGEND

STORM PIPE & INLET	■
SPOT ELEVATION	+ 91.8
PROPOSED CONTOUR	90
DRAINAGE STRUCTURE	C3
SILT FENCE	SF
TREE PROTECTION	T P

NOTES:

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D3	CATCH BASIN	STM-2 / C9.1	6.97	1002.80	995.83
D4	JUNCTION MANHOLE	SAN-2 / C9.2	7.02	1003.68	996.66
D5	CURB INLET	STM-1/ C9.1	4.10	1001.34	997.24
D6	CATCH BASIN	STM-2 / C9.1	5.26	1004.17	998.91
D7	NDS DRAIN INLET	10 / C8.0	5.70	1005.71	1000.01
D8	NDS DRAIN INLET	10 / C8.0	5.13	1005.75	1000.62
EI	UTIL VAULT CONNECTION	C7.2	9.27	1005.40	996.13
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G1	CURB INLET	STM-1/ C9.1	3.05	1000.70	997.65
H1	CLEANOUT / ROOF DRAIN	4 / C8.1	5.41	1006.10	1000.69
J1	CLEANOUT / ROOF DRAIN	4 / C8.1	5.16	1006.10	1000.94
K1	HEADWALL	8 / C8.1	- -	- -	991.86
K2	HEADWALL	8 / C8.1	- -	- -	992.30

PROPOSED STORM SEWER PIPE

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G1	997.65	D5	997.24	0.30%	18	RCP	137
H1	1000.69	D6	998.91	5.00%	8	PVC	36
J1	1000.94	D7	1000.01	5.00%	8	PVC	19
K2	992.30	K1	991.86	0.73%	18	RCP	60

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DRAWING NUMBER
C6.1

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TITLE
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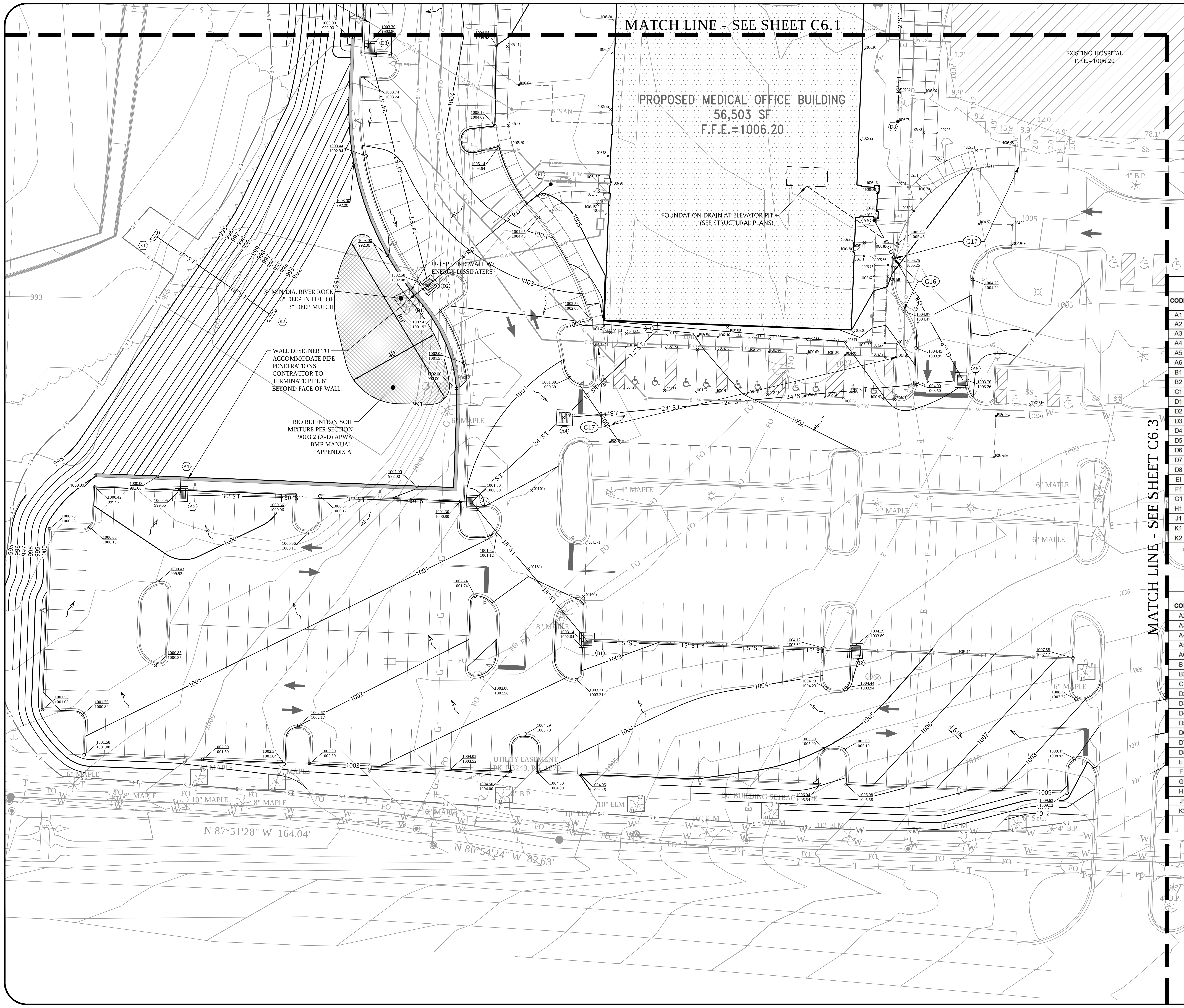

GRADING & DRAINAGE KEYNOTES

G16	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 15 FEET
G17	FLUSH CONDITION

PROPOSED FEATURES LEGEND

STORM PIPE & INLET	─■─
SPOT ELEVATION	+ 91.8
PROPOSED CONTOUR	90
DRAINAGE STRUCTURE	C3
SILT FENCE	SF
TREE PROTECTION	T P

NOTES:

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A5	CURB INLET	STM-1/ C9.1	3.65	1003.26	999.61
A6	CLEANOUT / ROOF DRAIN	4 / C8.1	3.99	1006.10	1002.11
B1	CURB INLET	STM-1/ C9.1	4.50	1002.64	998.14
B2	CURB INLET	STM-1/ C9.1	3.35	1003.89	1000.54
C1	CLEANOUT / ROOF DRAIN	4 / C8.1	4.27	1003.00	998.73
D1	PIPE END	- -	- -	- -	992.00
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A6	1002.11	A5	999.61	3.00%	4	PVC	83
B1	998.14	A3	994.89	4.00%	18	RCP	81
B2	1000.54	B1	998.14	2.00%	18	RCP	120
C1	998.73	A4	996.03	4.50%	12	PVC	60
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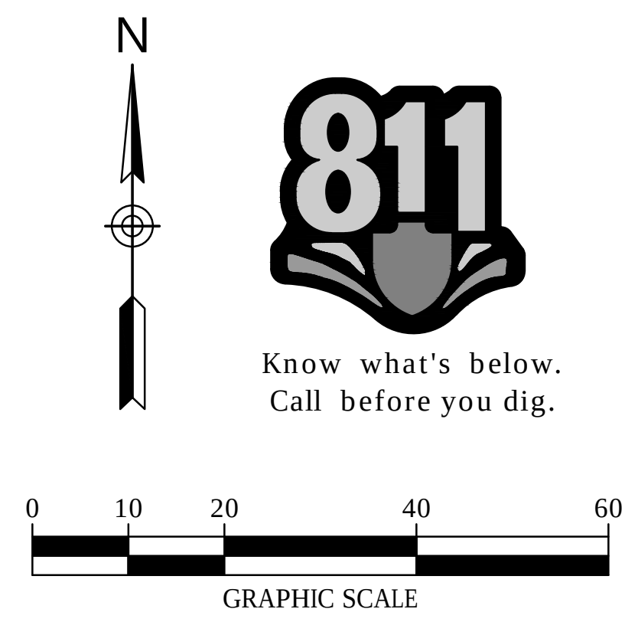

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DRAWING NUMBER
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DRAWING NAME
GRADING PLAN

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Lee's Summit Medical Center
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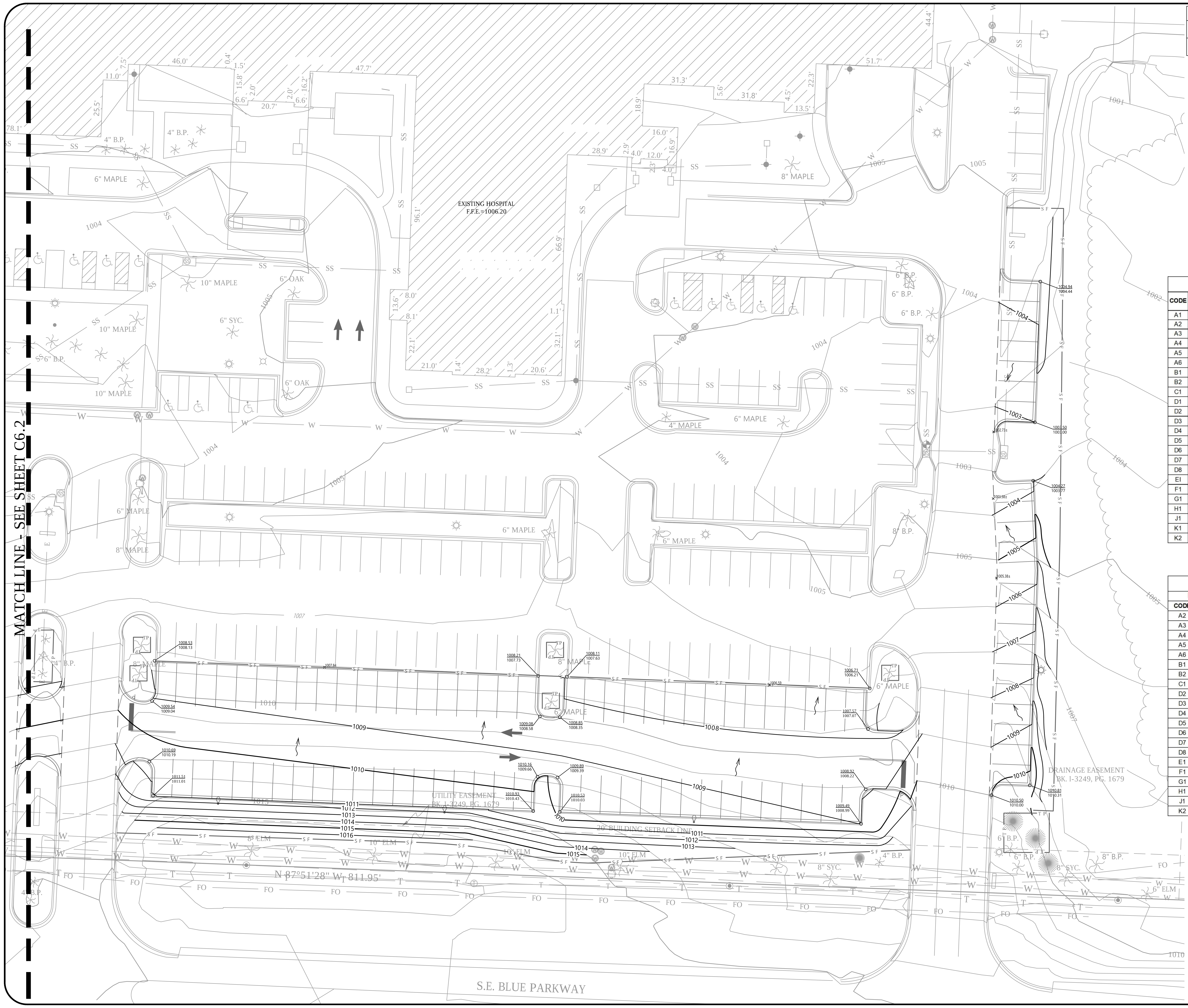

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STORM PIPE & INLET	——■——
SPOT ELEVATION	+ 91.8
PROPOSED CONTOUR	~~90~~
DRAINAGE STRUCTURE	C3
SILT FENCE	——SF——
TREE PROTECTION	——T P——

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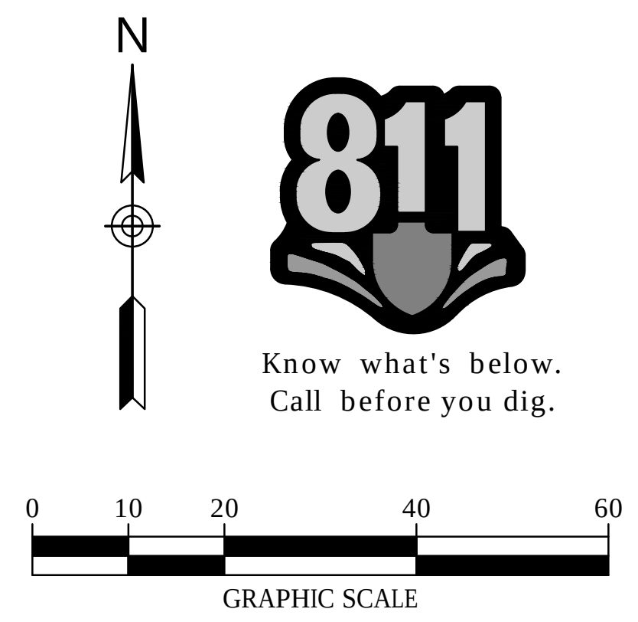
D2	CATCH BASIN	STM-2 / C9.1	9.48	1002.08	992.60
D3	CATCH BASIN	STM-2 / C9.1	6.97	1002.80	995.83
D4	JUNCTION MANHOLE	SAN-2 / C9.2	7.02	1003.68	996.66
D5	CURB INLET	STM-1/ C9.1	4.10	1001.34	997.24
D6	CATCH BASIN	STM-2 / C9.1	5.26	1004.17	998.91
D7	NDS DRAIN INLET	10 / C8.0	5.70	1005.71	1000.01
D8	NDS DRAIN INLET	10 / C8.0	5.13	1005.75	1000.62
EI	UTIL VAULT CONNECTION	C7.2	9.27	1005.40	996.13
F1	UTIL VAULT CONNECTION	C7.1	4.23	1003.45	999.22
G1	CURB INLET	STM-1/ C9.1	3.05	1000.70	997.65
H1	CLEANOUT / ROOF DRAIN	4 / C8.1	5.41	1006.10	1000.69
J1	CLEANOUT / ROOF DRAIN	4 / C8.1	5.16	1006.10	1000.94
K1	HEADWALL	8 / C8.1	- -	- -	991.86
K2	HEADWALL	8 / C8.1	- -	- -	992.30

PROPOSED STORM SEWER PIPE

FROM		TO		GRADE	DIAMETER (IN)	TYPE	LENGTH (L.F.)
CODE	INV.	CODE	INV.				
A2	992.27	A1	992.00	2.00%	30	RCP	14
A3	994.89	A2	992.27	2.00%	30	RCP	131
A4	996.03	A3	994.89	2.00%	24	RCP	57
A5	999.61	A4	996.03	2.00%	24	RCP	179
A6	1002.11	A5	999.61	3.00%	4	PVC	83
B1	998.14	A3	994.89	4.00%	18	RCP	81
B2	1000.54	B1	998.14	2.00%	18	RCP	120
C1	998.73	A4	996.03	4.50%	12	PVC	60
D2	992.60	D1	992.00	4.00%	24	RCP	15
D3	995.83	D2	992.60	3.00%	24	RCP	107
D4	996.66	D3	995.83	1.00%	18	RCP	84
D5	997.24	D4	996.66	0.60%	18	RCP	96
D6	998.91	D5	997.24	1.00%	18	RCP	167
D7	1000.01	D6	998.91	1.00%	12	PVC	110
D8	1000.62	D7	1000.01	1.00%	12	PVC	61
E1	996.13	D2	992.60	4.50%	4	PVC	78
F1	999.22	D5	997.24	3.50%	4	PVC	57
G1	997.65	D5	997.24	0.30%	18	RCP	137
H1	1000.69	D6	998.91	5.00%	8	PVC	36
J1	1000.94	D7	1000.01	5.00%	8	PVC	19
K2	992.30	K1	991.86	0.73%	18	RCP	60



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PROJECT NUMBER
527116043

DRAWING NUMBER
C6.3

DRAWING NAME
GRADING PLAN

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CONSTRUCTION DOCUMENTS

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TITLE
GRADING PLAN

SHEET
C6.3

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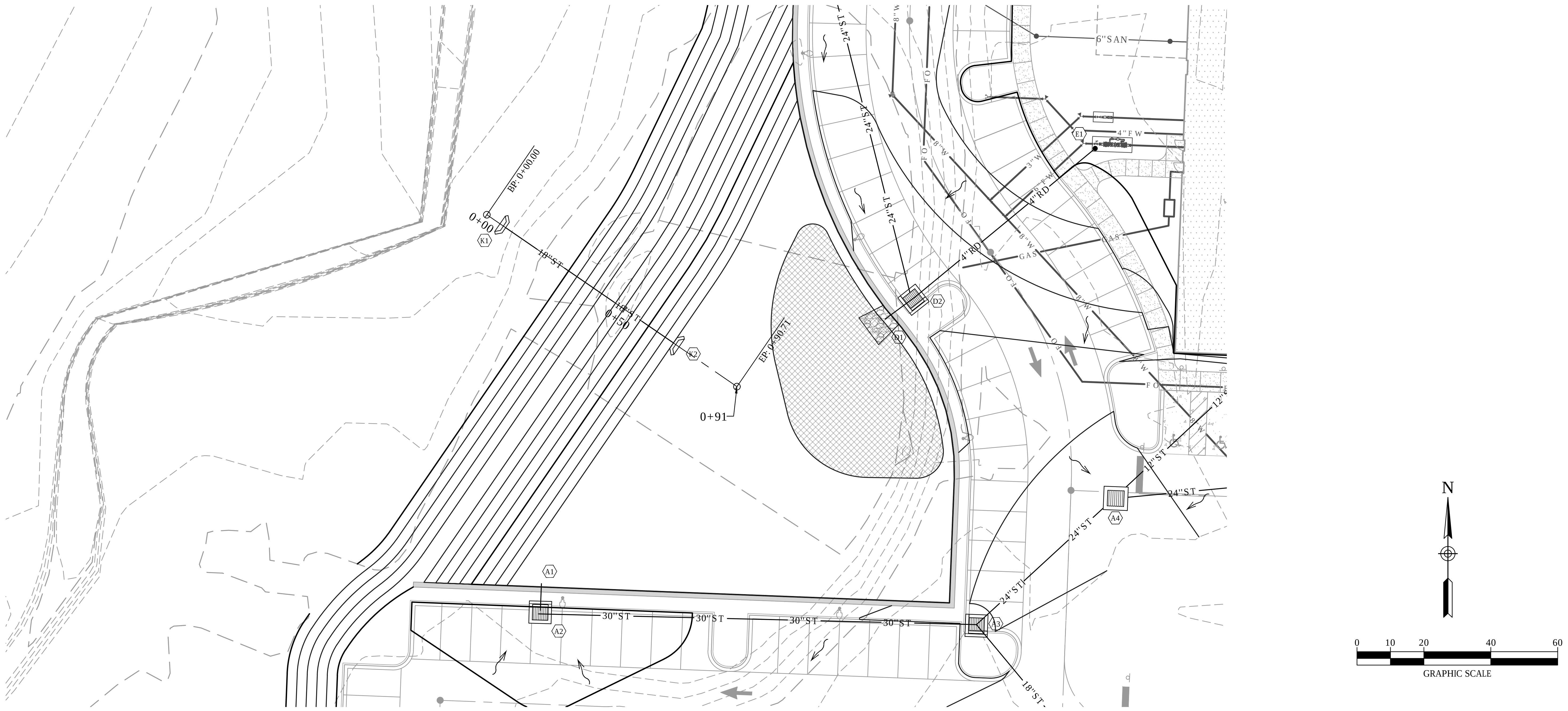

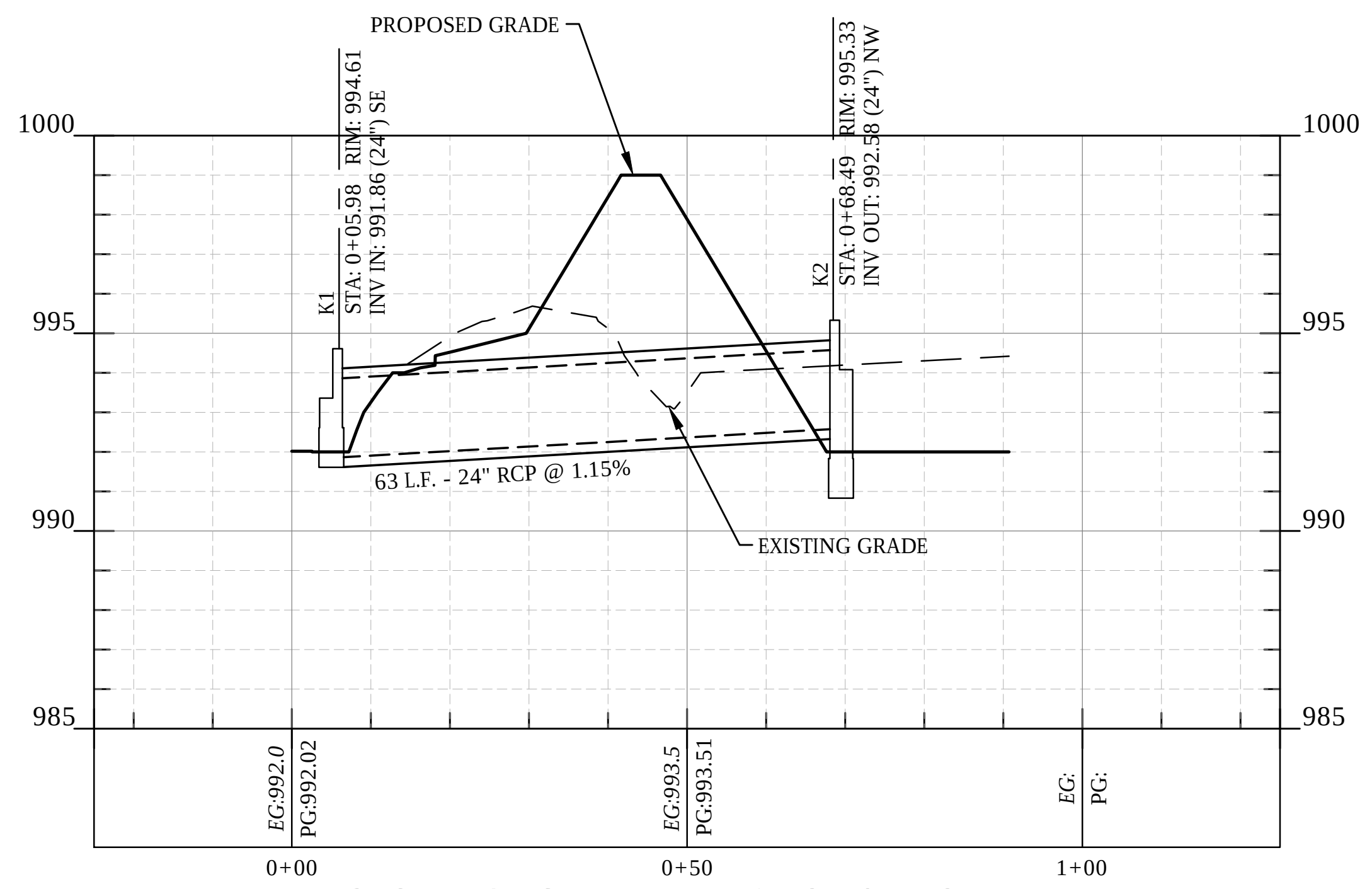

STORM ALIGNMENT - K1 TO K2 PROFILE

SCALE H:1"=20'; V:1"=4'

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DRAWING NUMBER
C6.4

DRAWING NAME
STORM PROFILE

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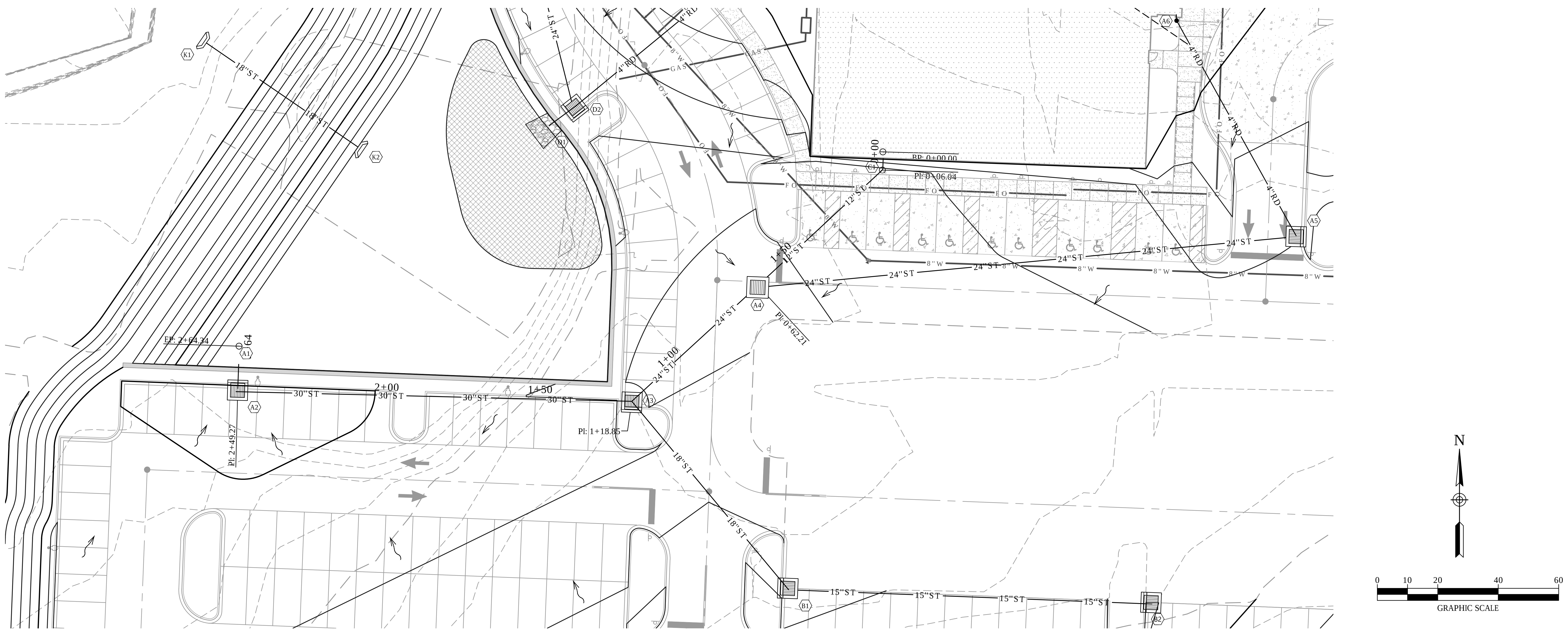
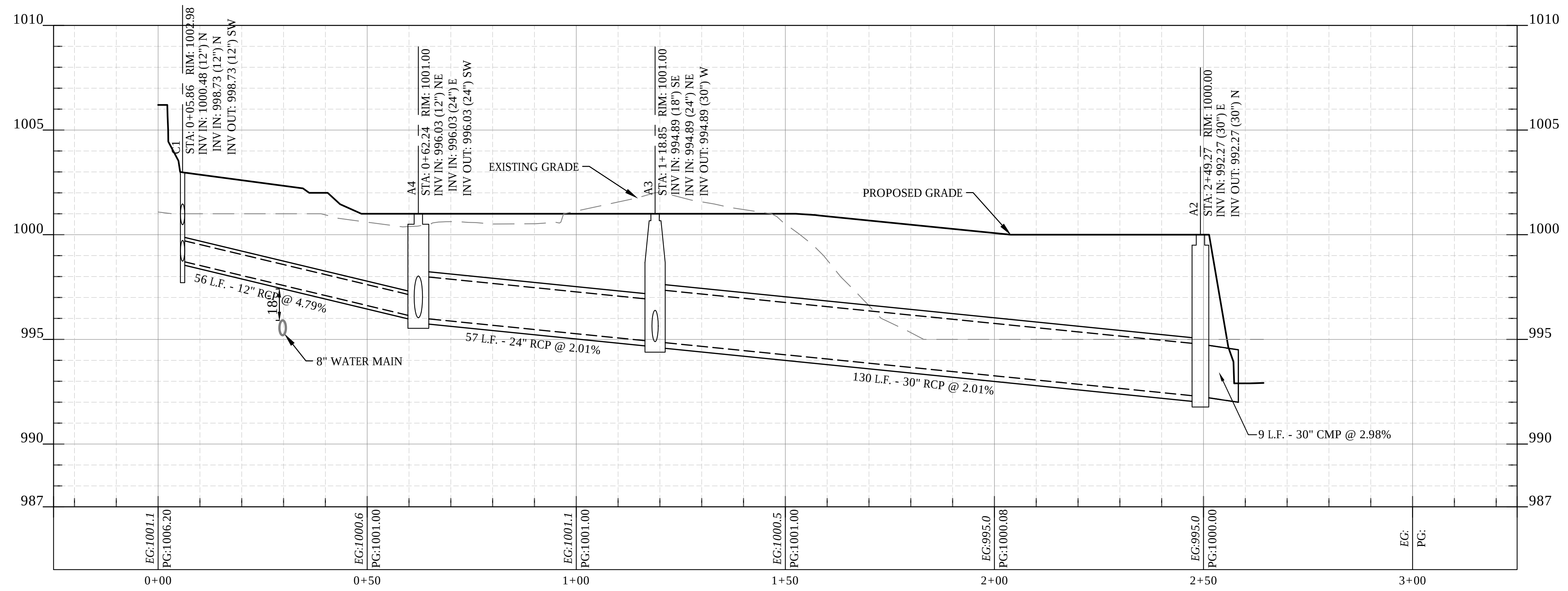
STORM PROFILE

SHEET
C6.4





STORM ALIGNMENT - C1 TO A2 PROFILE

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DRAWING NUMBER
C6.5

DRAWING NAME
STORM PROFILE

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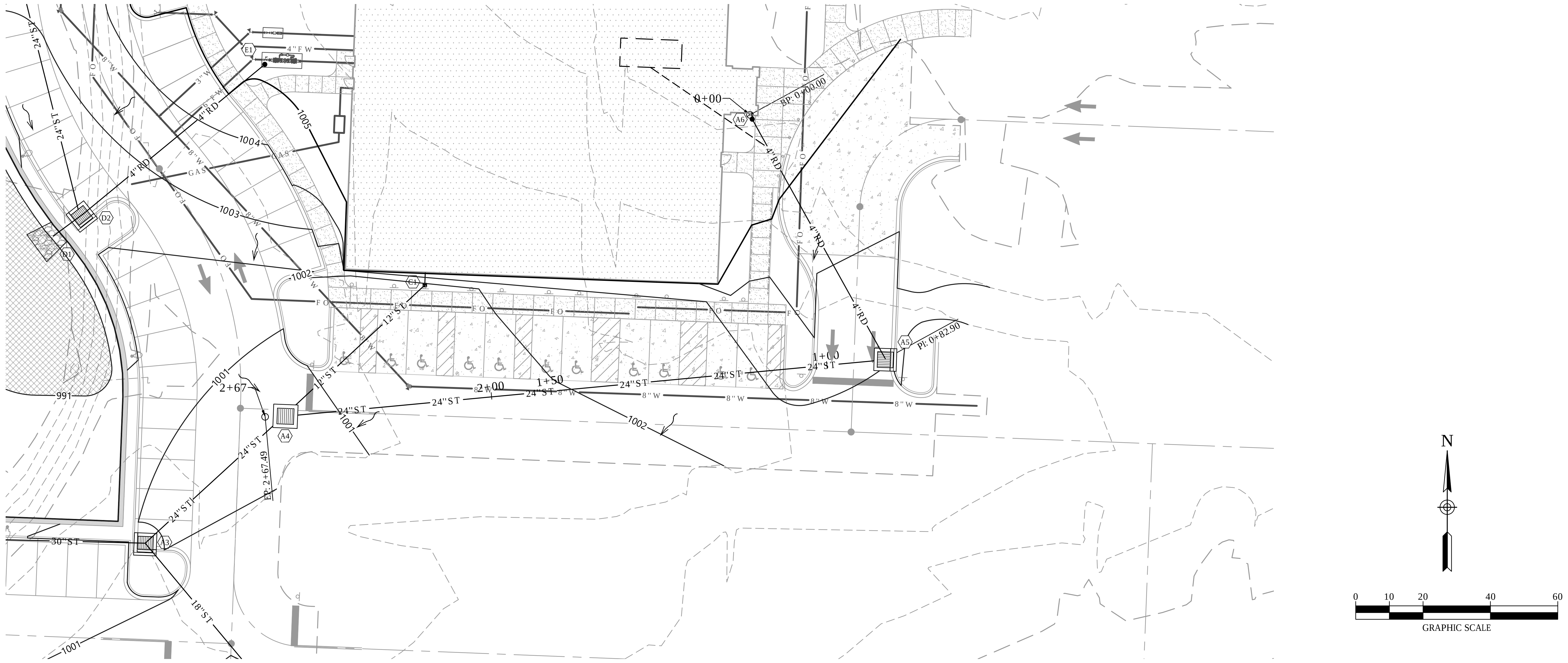

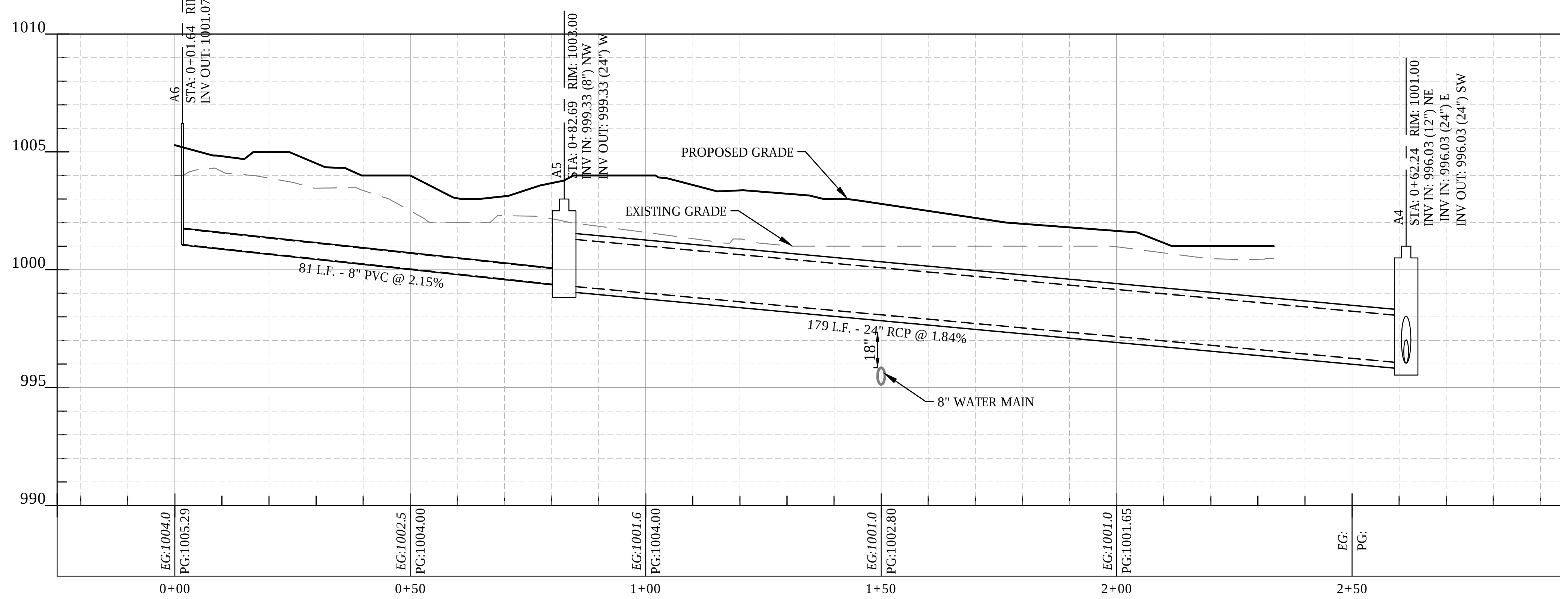

STORM ALIGNMENT - A6 TO A4 PROFILE

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DRAWING NUMBER
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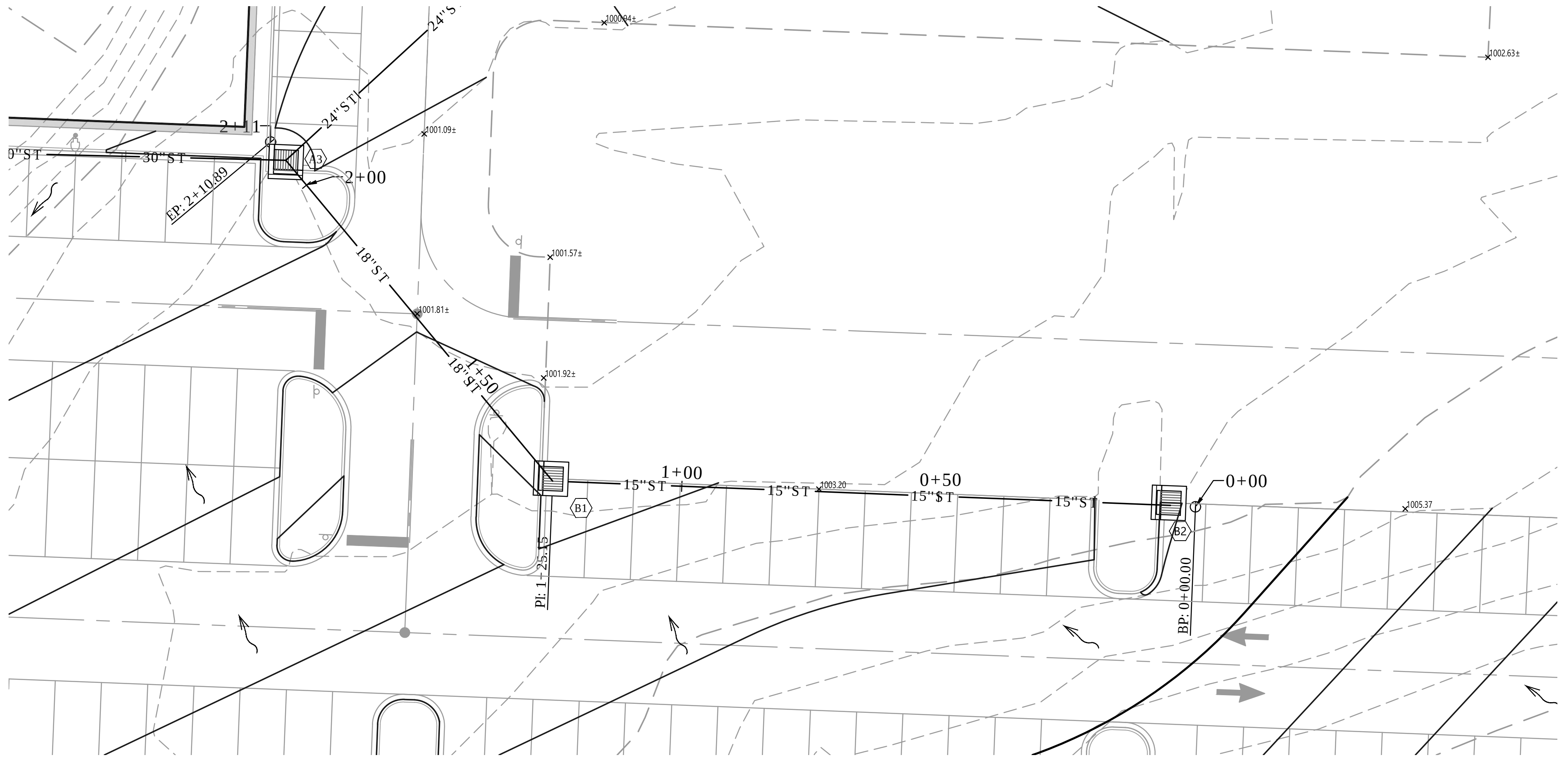

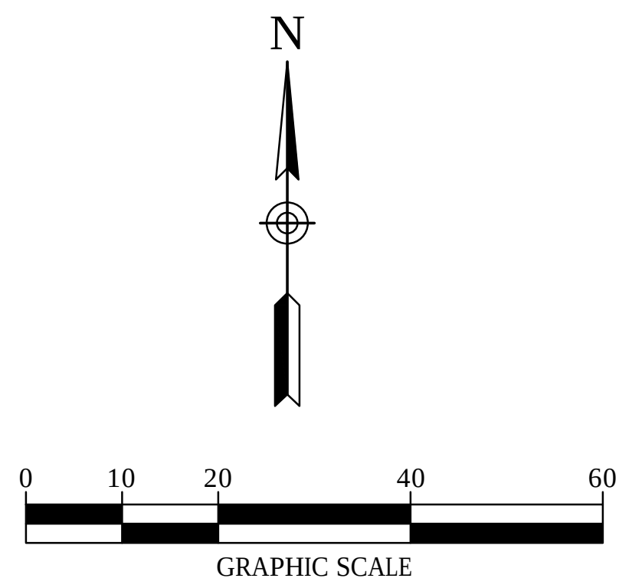

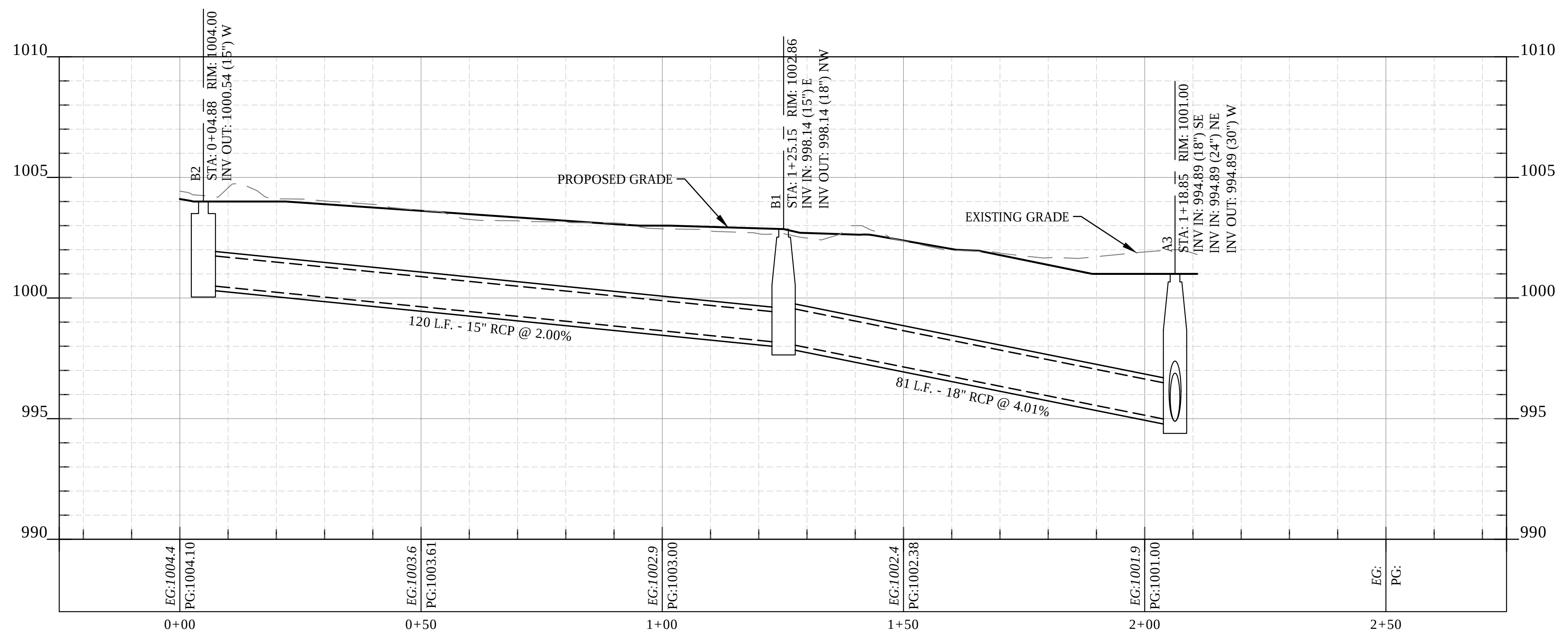

STORM ALIGNMENT - B2 TO A3 PROFILE

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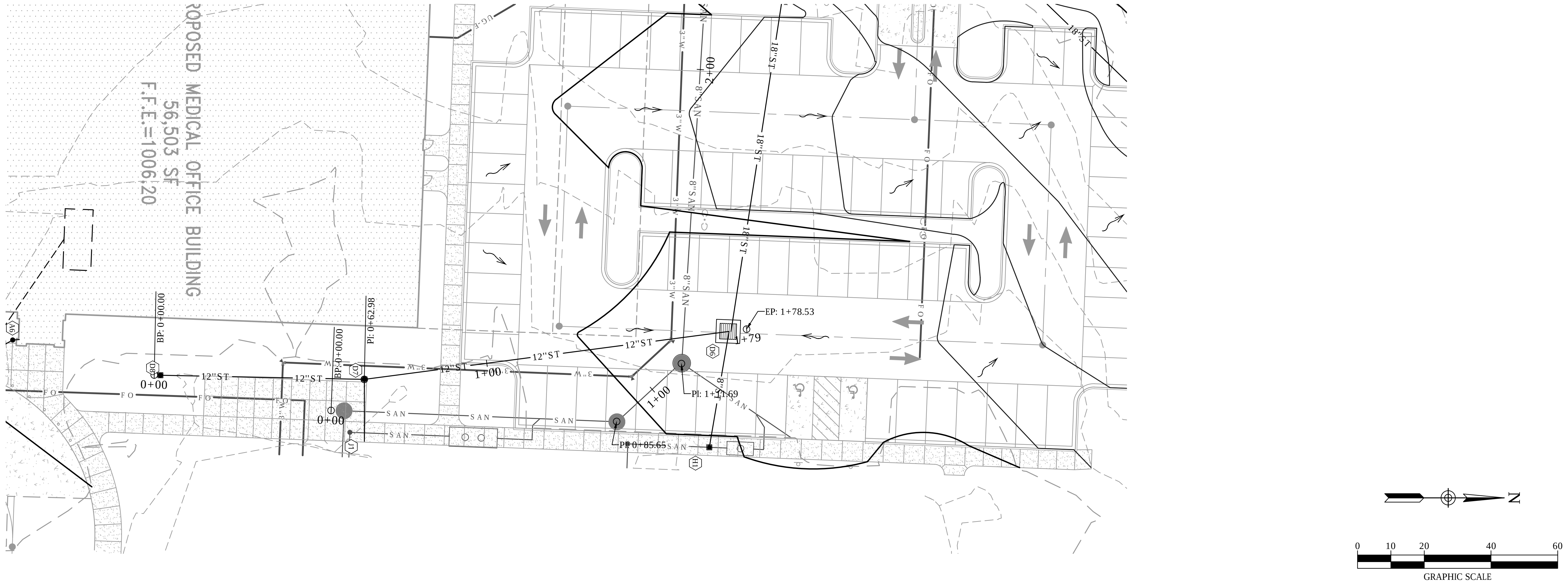

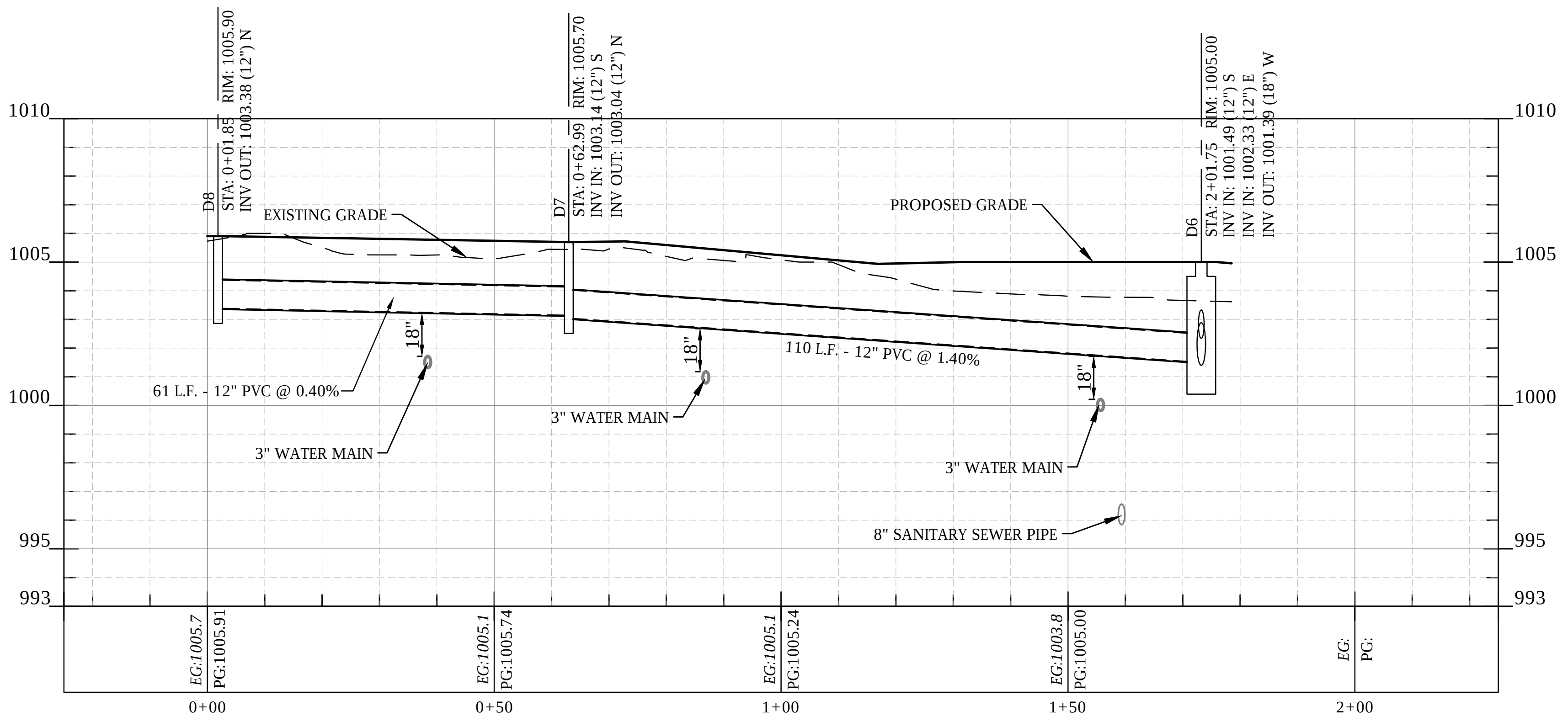

STORM ALIGNMENT - D8 TO D6 PROFILE
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C6.8

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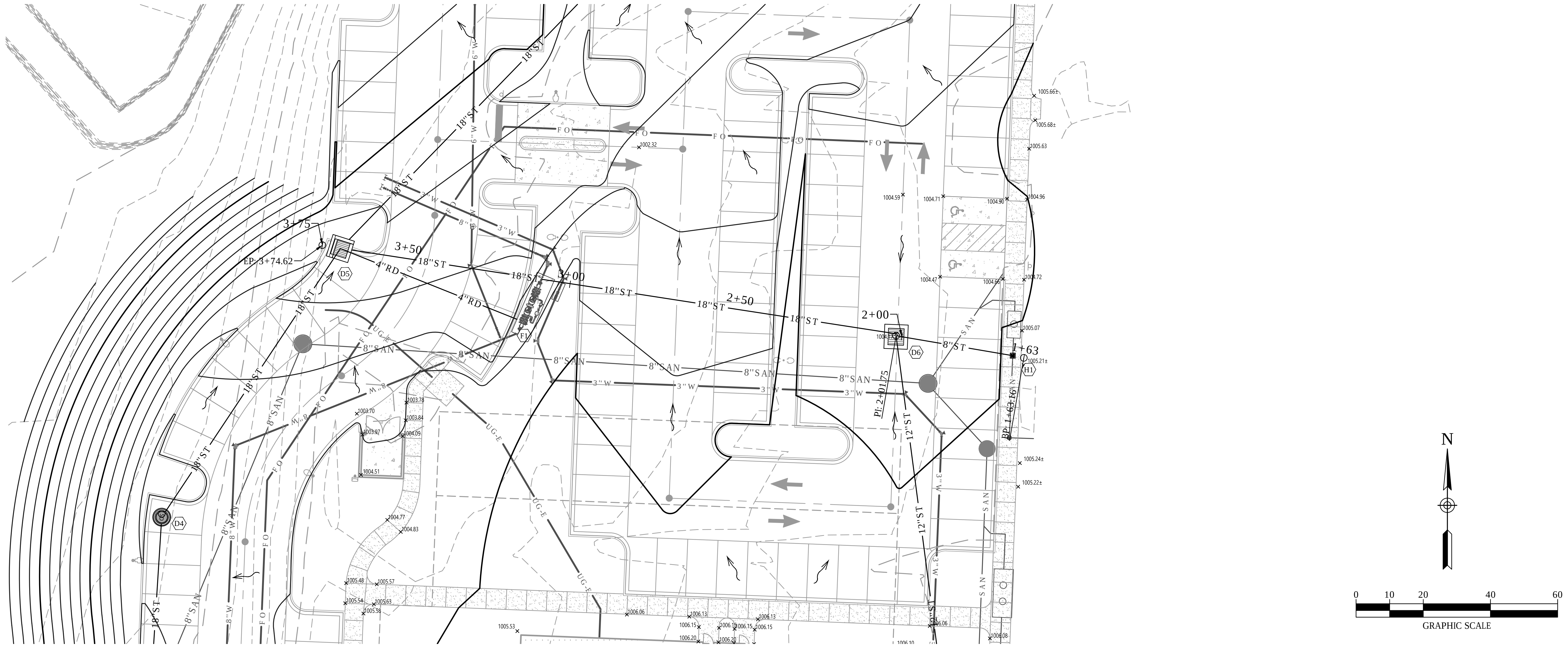

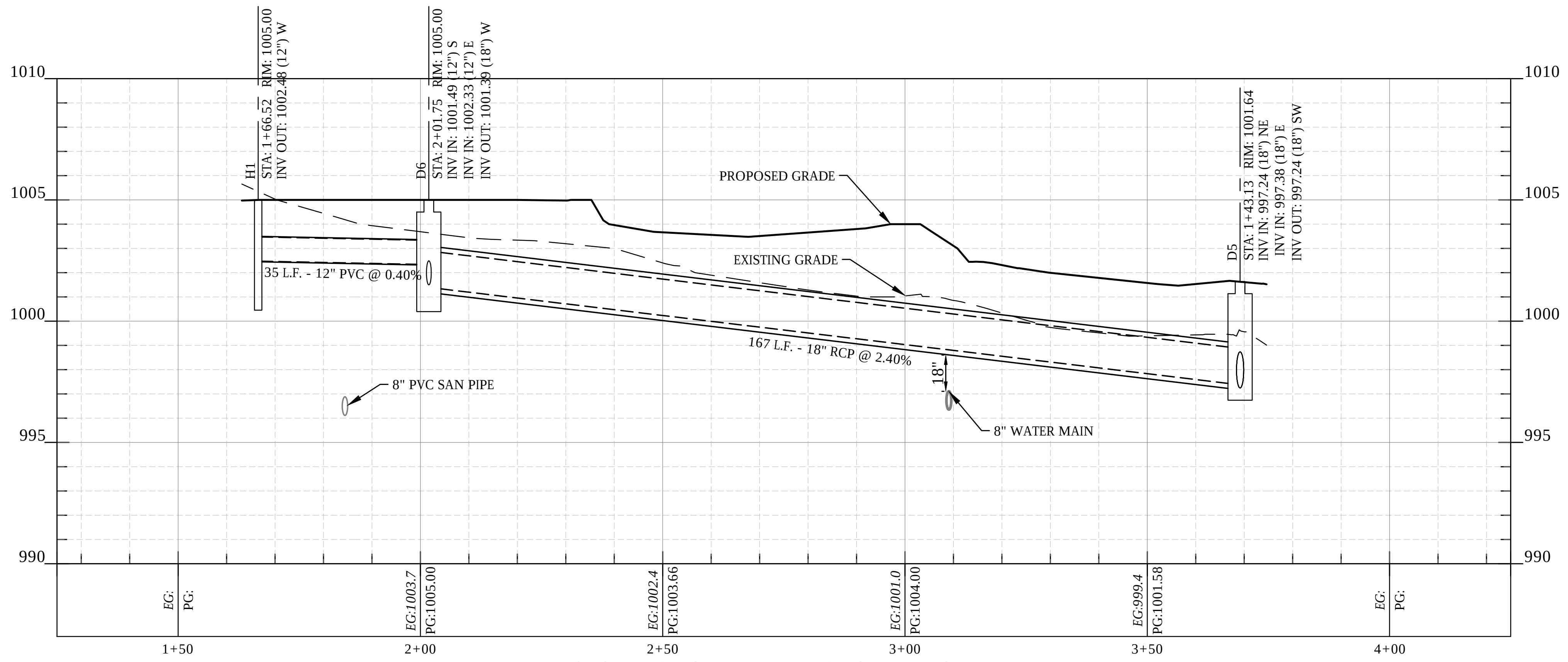

STORM ALIGNMENT - H1 TO D5 PROFILE

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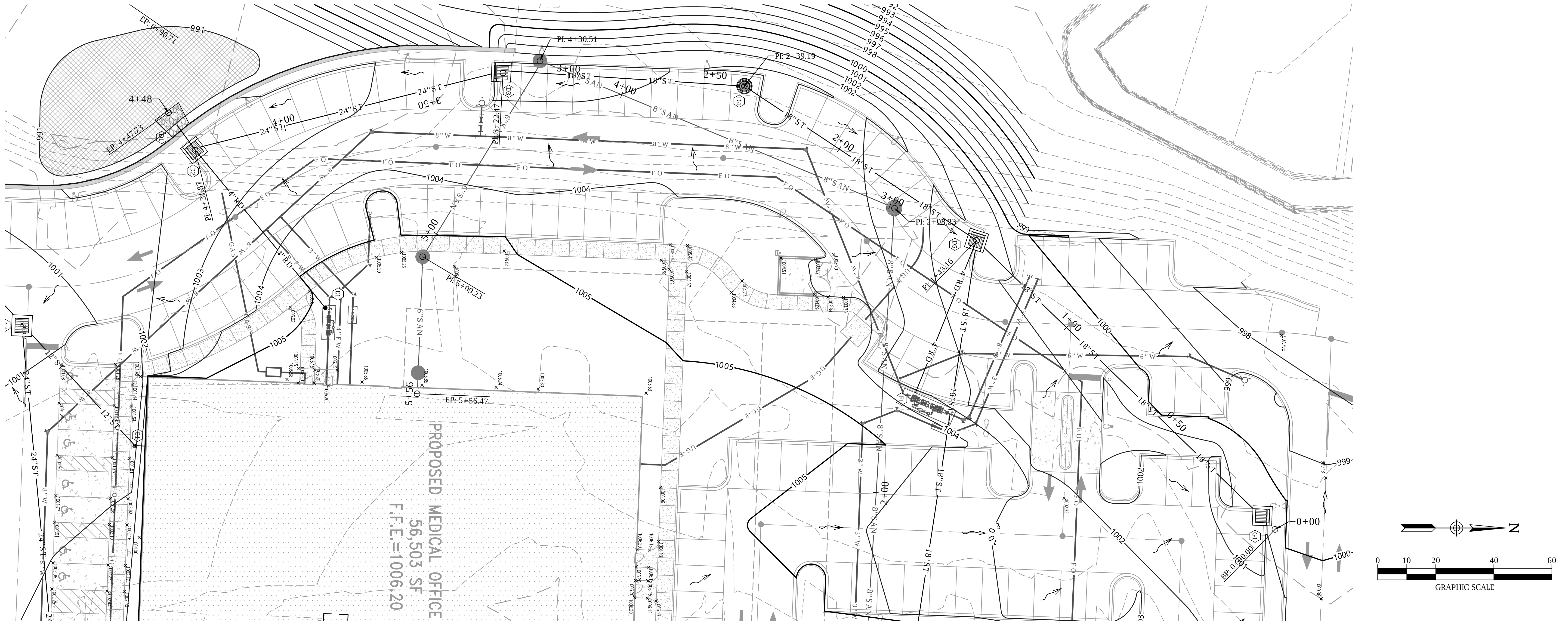

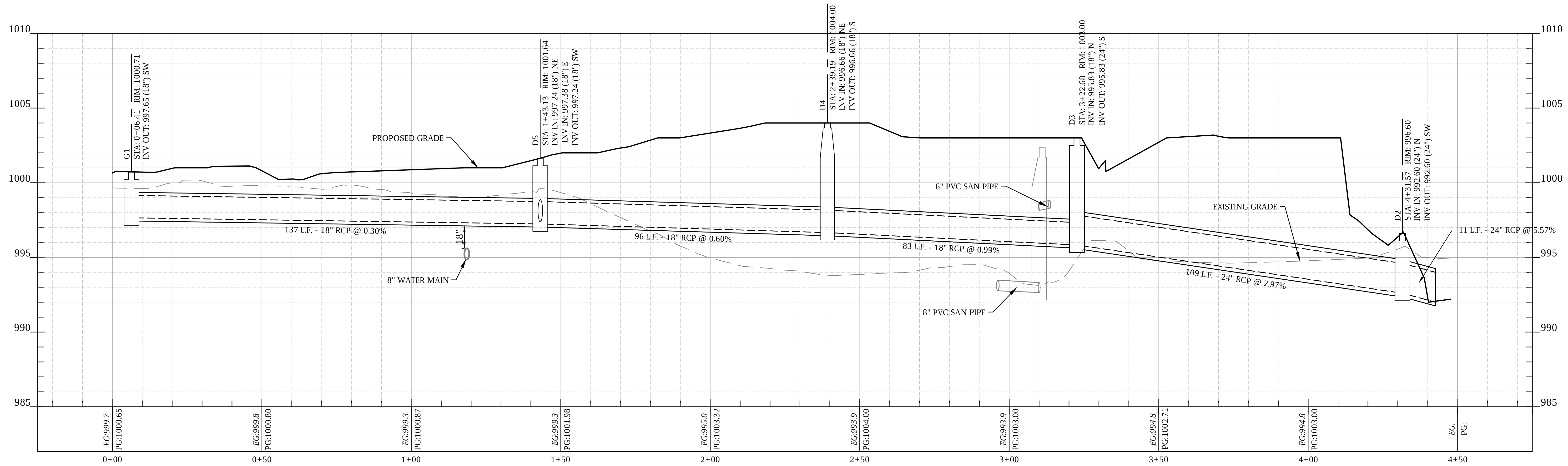

STORM ALIGNMENT - G1 TO D2 PROFILE

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△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
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DRAWING NUMBER
C6.10

DRAWING NAME
STORM PROFILE

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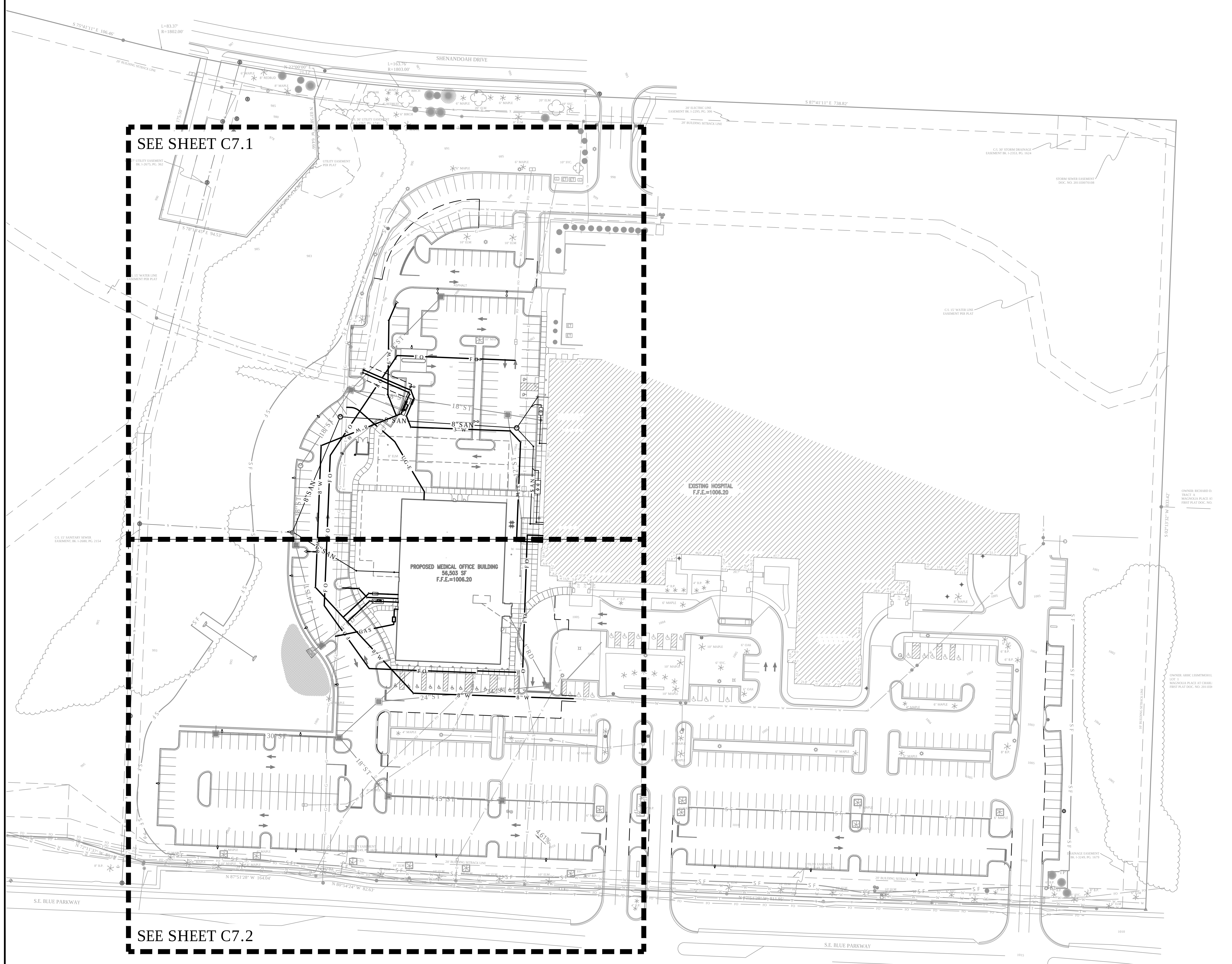

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1. THIS SHEET IS FOR GENERAL ORIENTATION ONLY. SEE SHEETS C7.1 AND C7.2 FOR DETAILED UTILITY PLANS.
2. ALL PROPOSED UTILITIES ARE PRIVATE WITH THE EXCEPTION OF 54 LF OF WATER MAIN (SHOWN WITHIN THE PROPOSED EASEMENT ON SHEET C7.1).

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PROJECT NUMBER
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DRAWING NUMBER
C7.0

DRAWING NAME
OVERALL
UTILITY PLAN

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C7.0

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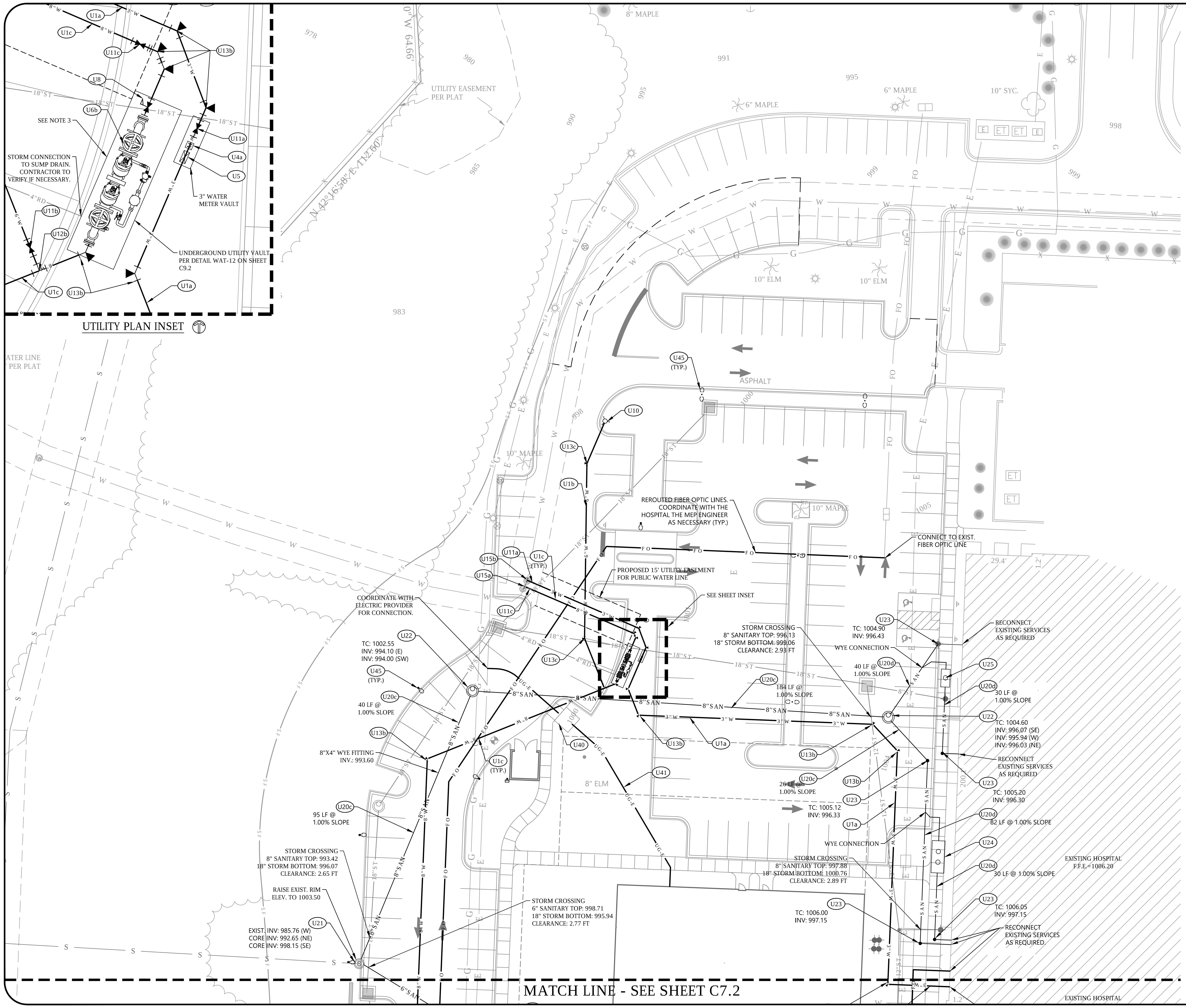
7/25/2017 11:03:59 AM


UTILITY PLAN INSET
SEE NOTE 3
STORM CONNECTION TO SUMP DRAIN. CONTRACTOR TO VERIFY IF NECESSARY.
3" WATER METER VAULT
UNDERGROUND UTILITY VAULT PER DETAIL WAT-12 ON SHEET C9.2
U1a
U1c
U11c
U13b
U8
U6b
U11a
U4a
U5
U11b
U12b
UTILITY EASEMENT PER PLAT
WATER LINE PER PLAT
8" MAPLE
6" MAPLE
10" SYC.
10" ELM
10" MAPLE
8" ELM
ASPHALT
U45 (TYP.)
U10
U13c
U1b
REROUTED FIBER OPTIC LINES. COORDINATE WITH THE HOSPITAL THE MEP ENGINEER AS NECESSARY (TYP.)
CONNECT TO EXIST. FIBER OPTIC LINE
PROPOSED 15' UTILITY EASEMENT FOR PUBLIC WATER LINE
SEE SHEET INSET
COORDINATE WITH ELECTRIC PROVIDER FOR CONNECTION.
U15b
U15a
U11a
U1c (TYP.)
U11c
STORM CROSSING 8" SANITARY TOP: 996.13 18" STORM BOTTOM: 999.06 CLEARANCE: 2.93 FT
TC: 1004.90 INV: 996.43
WYE CONNECTION
40 LF @ 1.00% SLOPE
U20d
U23
U25
RECONNECT EXISTING SERVICES AS REQUIRED
U22
TC: 1002.55 INV: 994.10 (E) INV: 994.00 (SW)
U45 (TYP.)
U20c
40 LF @ 1.00% SLOPE
U13b
8"X4" WYE FITTING INV.: 993.60
U1c (TYP.)
U40
U41
U13c
U13b
U1a
184 LF @ 1.00% SLOPE
30 LF @ 1.00% SLOPE
TC: 1004.60 INV: 996.07 (SE) INV: 995.94 (W) INV: 996.03 (NE)
RECONNECT EXISTING SERVICES AS REQUIRED
U20c
26 LF @ 1.00% SLOPE
U13b
U23
TC: 1005.20 INV: 996.30
TC: 1005.12 INV: 996.33
U1a
WYE CONNECTION
82 LF @ 1.00% SLOPE
U24
U20d
30 LF @ 1.00% SLOPE
EXISTING HOSPITAL F.F.E.=1006.20
U20c
95 LF @ 1.00% SLOPE
STORM CROSSING 8" SANITARY TOP: 993.42 18" STORM BOTTOM: 996.07 CLEARANCE: 2.65 FT
RAISE EXIST. RIM ELEV. TO 1003.50
U21
EXIST. INV: 985.76 (W) CORE INV: 992.65 (NE) CORE INV: 998.15 (SE)
STORM CROSSING 6" SANITARY TOP: 998.71 18" STORM BOTTOM: 995.94 CLEARANCE: 2.77 FT
STORM CROSSING 8" SANITARY TOP: 997.88 18" STORM BOTTOM: 1000.76 CLEARANCE: 2.89 FT
U23
TC: 1006.00 INV: 997.15
U23
TC: 1006.05 INV: 997.15
RECONNECT EXISTING SERVICES AS REQUIRED.
EXISTING HOSPITAL
8" SAN
3" W
18" ST
FO
ET
29.4'
12'
MATCH LINE - SEE SHEET C7.2

UTILITY KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
U1a	3" PVC WATER LINE	
U1b	6" PVC FIRE LINE	
U1c	8" PVC WATER LINE	
U1d	4" PVC FIRE LINE	
U4a	RELOCATED 3" DOMESTIC WATER METER	
U4b	3" DOMESTIC WATER METER	
U5a	RELOCATED 3" REDUCED PRESSURE BACKFLOW PREVENTER	
U5b	3" REDUCED PRESSURE BACKFLOW PREVENTER	
U6a	6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY	WAT-12 / C9.2
U6b	RELOCATED 10" DOUBLE DETECTOR CHECK VALVE	
U8	POST INDICATOR VALVE	2 / C8.1
U9	FIRE DEPARTMENT CONNECTION	1 / C8.1
U10	FIRE HYDRANT ASSEMBLY	WAT-7 / C9.2
U11a	3" WATER VALVE	WAT-9 / C9.2
U11b	6" WATER VALVE	WAT-9 / C9.2
U11c	8" WATER VALVE	WAT-9 / C9.2
U12a	TEE (8"X8")	WAT-1 / C9.1
U12b	TEE (8"X6")	WAT-1 / C9.1
U12c	TEE (8"X3")	WAT-1 / C9.1
U13a	90° BEND (SEE LINE FOR SIZE)	WAT-1 / C9.1
U13b	45° BEND (SEE LINE FOR SIZE)	WAT-1 / C9.1
U13c	22.5° BEND (SEE LINE FOR SIZE)	WAT-1 / C9.1
U14a	8" X 6" REDUCER	
U15a	12" X 8" CUT-IN TEE & VALVE	WAT-1 / C9.1
U15b	12" X 3" CUT-IN TEE & VALVE	WAT-1 / C9.1
U20a	4" PVC SANITARY SEWER LINE	
U20b	6" PVC SANITARY SEWER LINE	
U20c	8" PVC SANITARY SEWER LINE	
U20d	ACID BASIN/GREASE TRAP/SANITARY SERVICE LINE	MATCH EXISTING PIPE SIZE
U21	SANITARY SEWER MANHOLE DROP CONNECT.	SAN 4 & SAN-5 / C9.2
U22	SANITARY SEWER MANHOLE	SAN-2 / C9.2
U23	SANITARY SEWER CLEANOUT	4 / C8.1
U24	RELOCATED ACID BASIN	
U25	RELOCATED GREASE TRAP	
U26	SANITARY DRAIN	SEE PLUMB. PLAN
U30	SEE PLUMBING PLAN FOR CONTINUATION	
U31	NATURAL GAS METER	SEE PLUMB. PLAN
U40	ELECTRIC TRANSFORMER	SEE ELEC. PLAN
U41	UNDERGROUND ELECTRIC LINE	SEE ELEC. PLAN
U45	SITE LIGHTING	SEE ELEC. PLAN

PROPOSED FEATURES LEGEND

DOMESTIC SERVICE	—— D W ——
FIRE SERVICE	—— F —— F ——
GAS LINE	—— G A S ——
WATER LINE WITH 90° THRUST BLOCK	
SANITARY SEWER LINE WITH CLEANOUT	——○——
NEW FIRE HYDRANT	
UNDERGROUND ELECTRIC	—— UGE —— UGE ——
SILT FENCE	—— SF ——
TREE PROTECTION	—— T P ——

NOTES:
1. SEE SHEET C2.0 FOR UTILITY NOTES.
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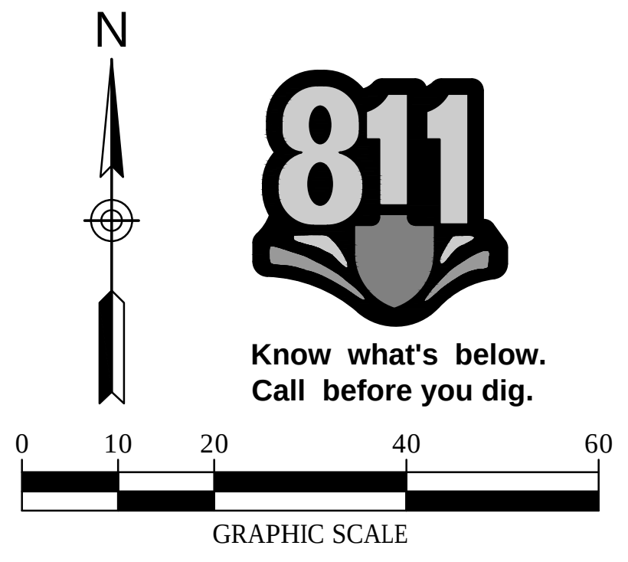

GRAPHIC SCALE

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Edward Browder, PLA 2018001073

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816.282.5000

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MEDICAL OFFICE BUILDING
LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON, III
NUMBER
PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C7.1

DRAWING NAME
UTILITY PLAN

HEREFORD & DOOLEY
ARCHITECTS

1720 WEST END AVE · SUITE 300
NASHVILLE · TENNESSEE · 37203
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LICENSE NUMBER: 123456789101112

PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
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SHEET
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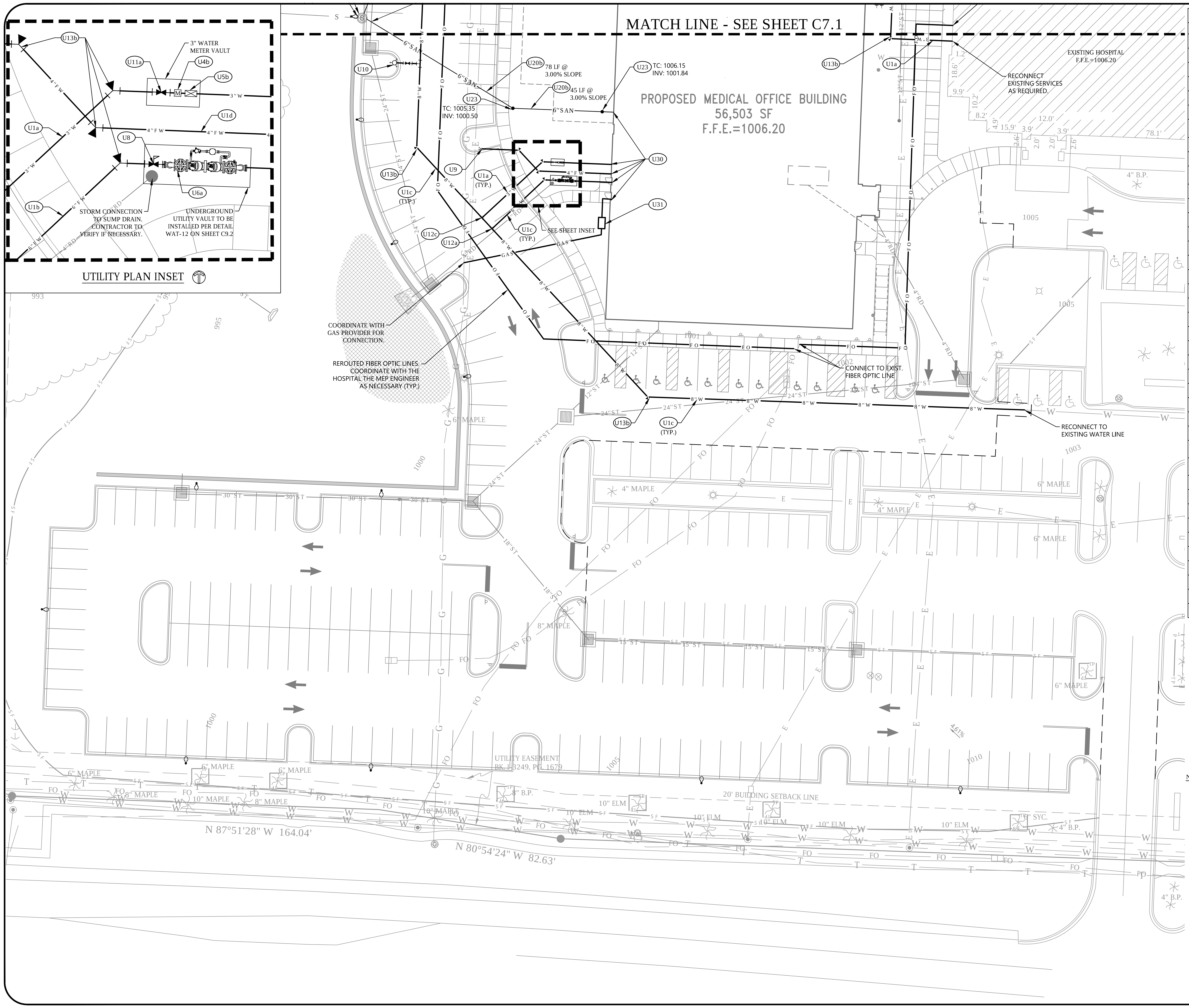

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U11c	8" WATER VALVE	WAT-9 / C9.2
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U12b	TEE (8"X6")	WAT-1 / C9.1
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U13b	45° BEND (SEE LINE FOR SIZE)	WAT-1 / C9.1
U13c	22.5° BEND (SEE LINE FOR SIZE)	WAT-1 / C9.1
U14a	8" X 6" REDUCER	
U15a	12" X 8" CUT-IN TEE & VALVE	WAT-1 / C9.1
U15b	12" X 3" CUT-IN TEE & VALVE	WAT-1 / C9.1
U20a	4" PVC SANITARY SEWER LINE	
U20b	6" PVC SANITARY SEWER LINE	
U20c	8" PVC SANITARY SEWER LINE	
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U25	RELOCATED GREASE TRAP	
U26	SANITARY DRAIN	SEE PLUMB. PLAN
U30	SEE PLUMBING PLAN FOR CONTINUATION	
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FIRE SERVICE	—— F —— F ——
GAS LINE	—— G A S ——
WATER LINE WITH 90° THRUST BLOCK	——┤▶
SANITARY SEWER LINE WITH CLEANOUT	——○——
NEW FIRE HYDRANT	├▶◀○
UNDERGROUND ELECTRIC	— UGE —— UGE —
SILT FENCE	—— SF ——
TREE PROTECTION	—— T P ——

NOTES:

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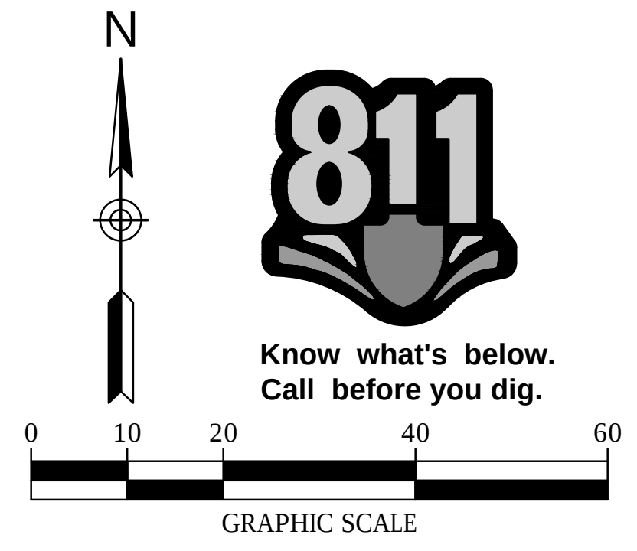

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PROJECT NUMBER
527116043

DRAWING NUMBER
C7.2

DRAWING NAME
UTILITY PLAN

HEREFORD & DOOLEY
ARCHITECTS

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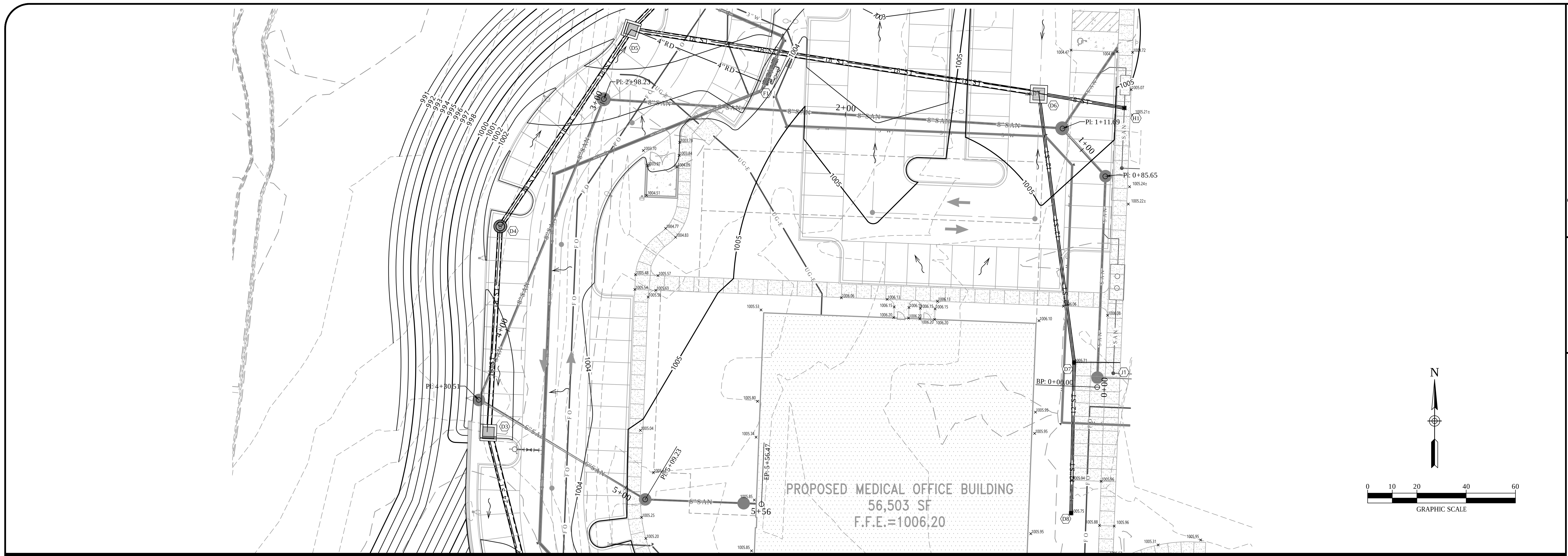

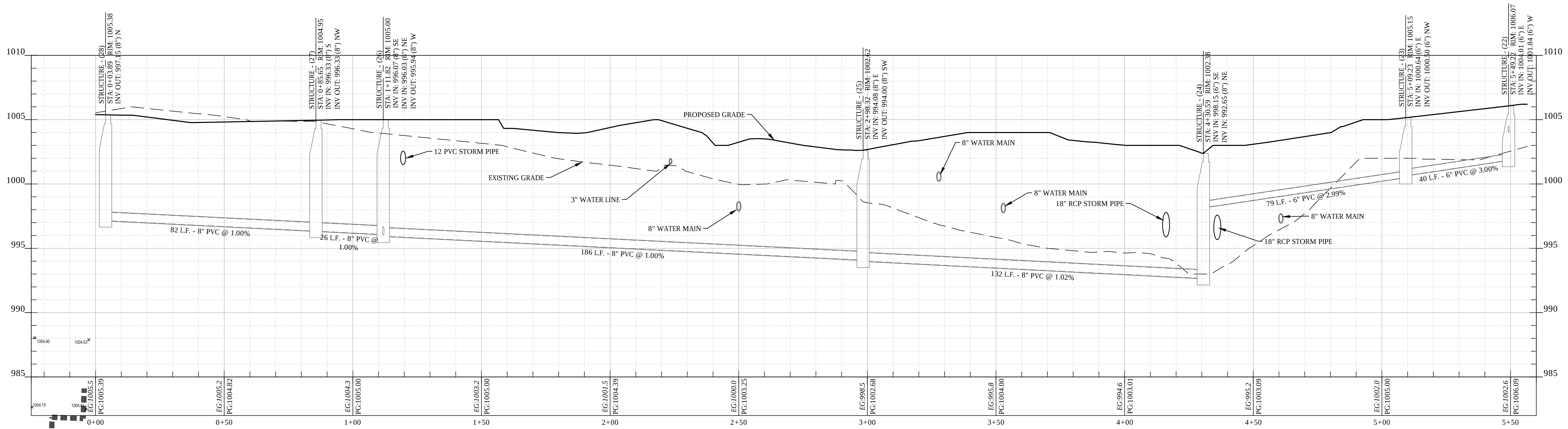
STRUCTURE - (28) STA: 0+03.89 RIM: 1005.38 INV OUT: 997.15 (8") N
STRUCTURE - (27) STA: 0+85.65 RIM: 1004.95 INV IN: 996.33 (8") S INV OUT: 996.33 (8") NW
STRUCTURE - (26) STA: 1+11.82 RIM: 1005.00 INV IN: 996.07 (8") SE INV IN: 996.03 (8") NE INV OUT: 995.94 (8") W
STRUCTURE - (25) STA: 2+98.32 RIM: 1002.62 INV IN: 994.08 (8") E INV OUT: 994.00 (8") SW
STRUCTURE - (24) STA: 4+30.59 RIM: 1002.38 INV IN: 998.15 (6") SE INV IN: 992.65 (8") NE
STRUCTURE - (23) STA: 5+09.23 RIM: 1005.15 INV IN: 1000.64 (6") E INV OUT: 1000.50 (6") NW
STRUCTURE - (22) STA: 5+49.22 RIM: 1006.07 INV IN: 1004.01 (6") E INV OUT: 1001.84 (6") W
PROPOSED GRADE
EXISTING GRADE
12 PVC STORM PIPE
3" WATER LINE
8" WATER MAIN
8" WATER MAIN
8" WATER MAIN
8" WATER MAIN
8" WATER MAIN
18" RCP STORM PIPE
18" RCP STORM PIPE
82 L.F. - 8" PVC @ 1.00%
26 L.F. - 8" PVC @ 1.00%
186 L.F. - 8" PVC @ 1.00%
132 L.F. - 8" PVC @ 1.02%
79 L.F. - 6" PVC @ 2.99%
40 L.F. - 6" PVC @ 3.00%
1010
1005
1000
995
990
985
1004.40
1004.63
1004.19
1004.41
EG:1005.5 PG:1005.39 0+00
EG:1005.2 PG:1004.82 0+50
EG:1004.3 PG:1005.00 1+00
EG:1003.2 PG:1005.00 1+50
EG:1001.5 PG:1004.39 2+00
EG:1000.0 PG:1003.25 2+50
EG:998.5 PG:1002.68 3+00
EG:995.8 PG:1004.00 3+50
EG:994.6 PG:1003.01 4+00
EG:995.2 PG:1003.09 4+50
EG:1002.0 PG:1005.00 5+00
EG:1002.6 PG:1006.09 5+50

SANITARY SEWER PROFILE

SCALE H:1"=20'; V:1"=4'

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PROJECT NUMBER
527116043

DRAWING NUMBER
C7.3

DRAWING NAME
SANITARY SEWER PROFILE

HEREFORD & DOOLEY
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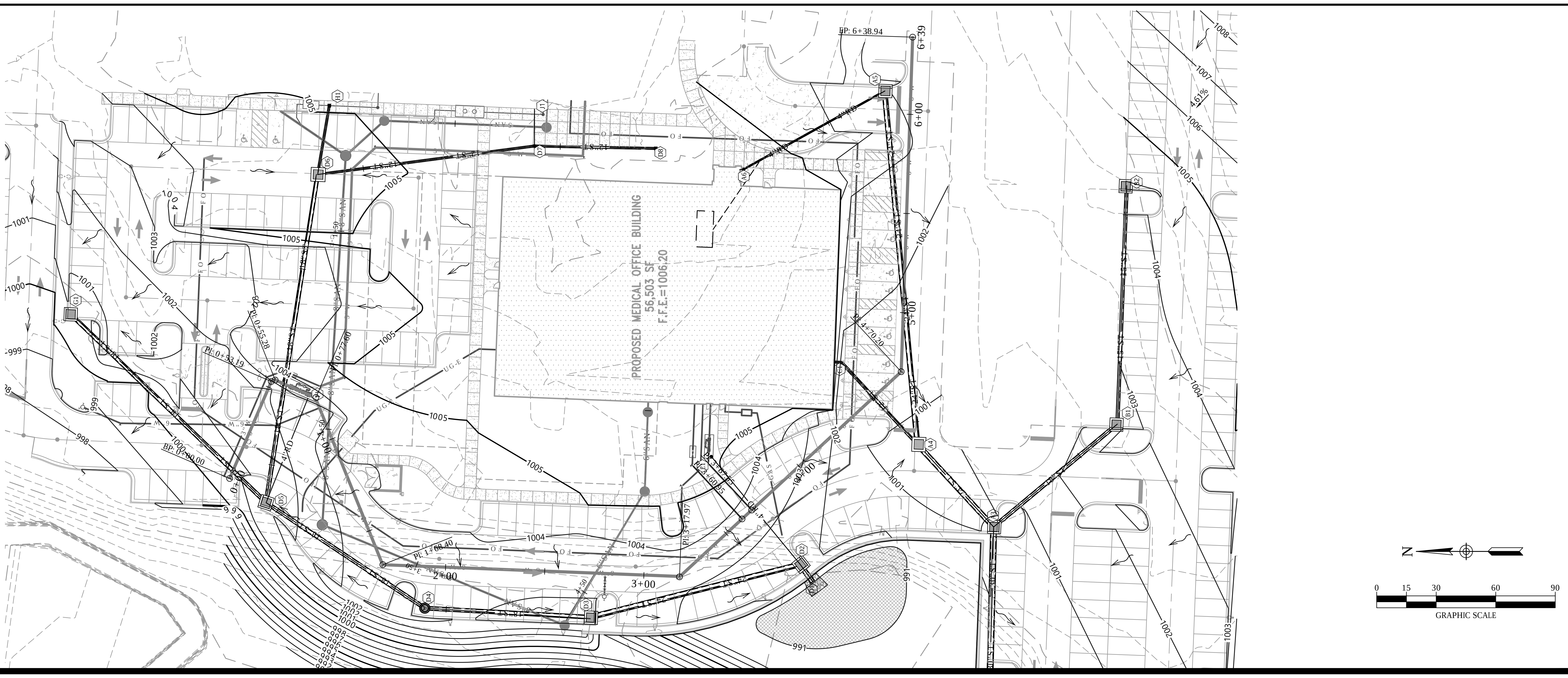

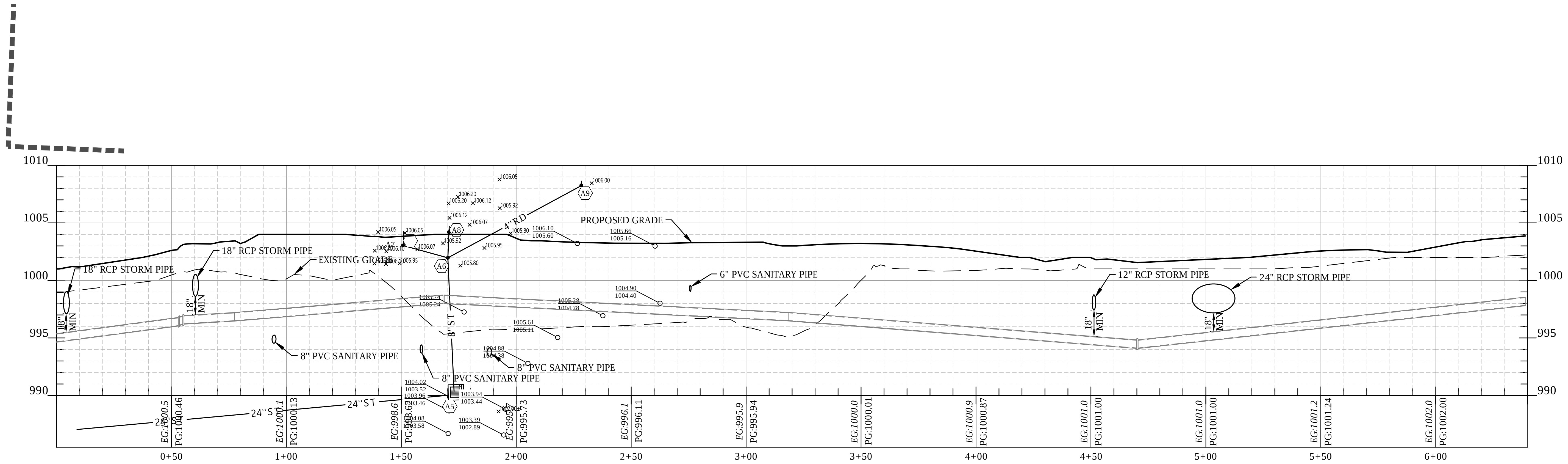

8IN FIRE LINE PROFILE

SCALE H:1"=20'; V:1"=4'

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PROJECT NUMBER
527116043

DRAWING NUMBER
C7.4

DRAWING NAME
FIRE LINE PROFILE

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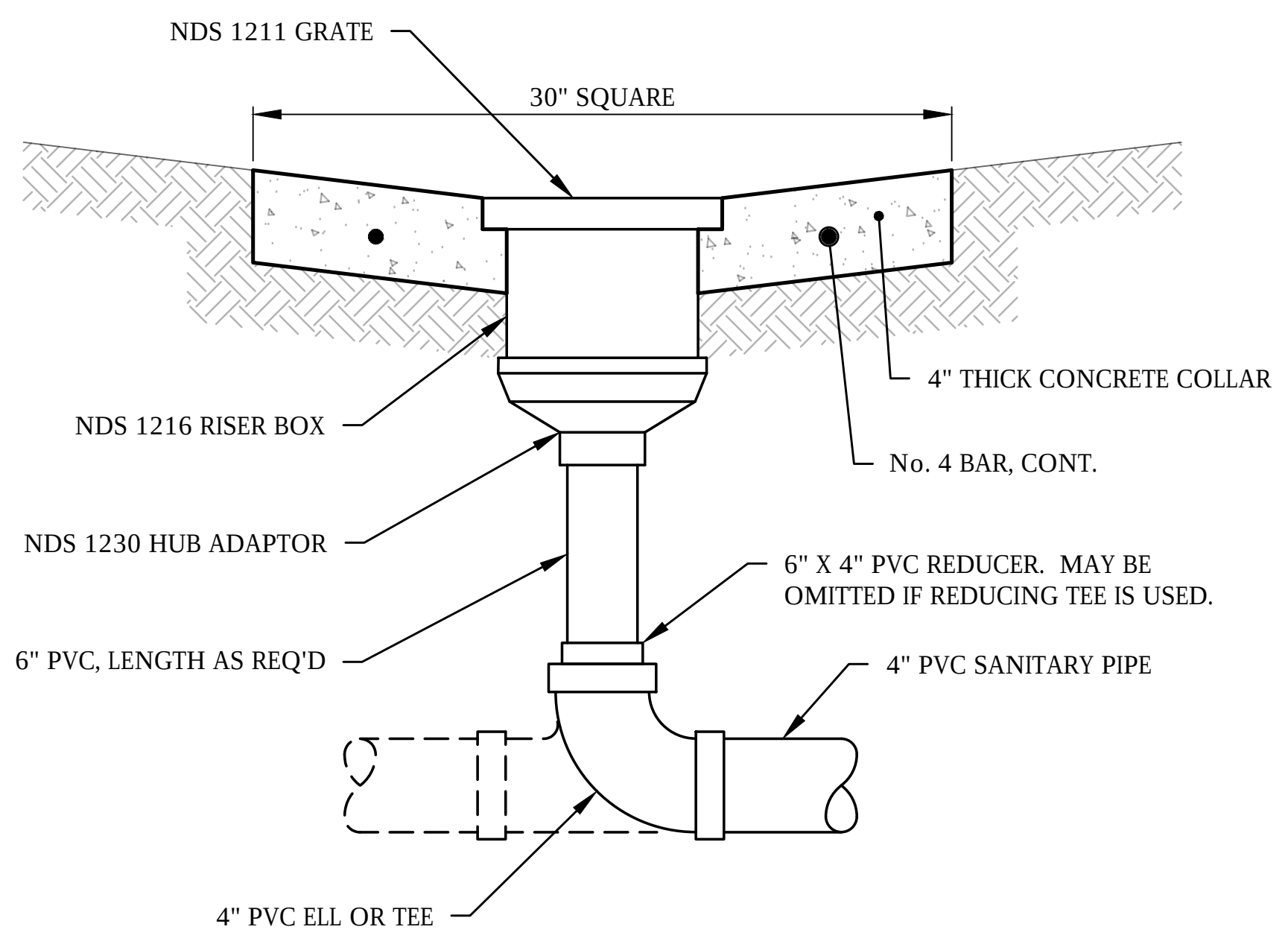
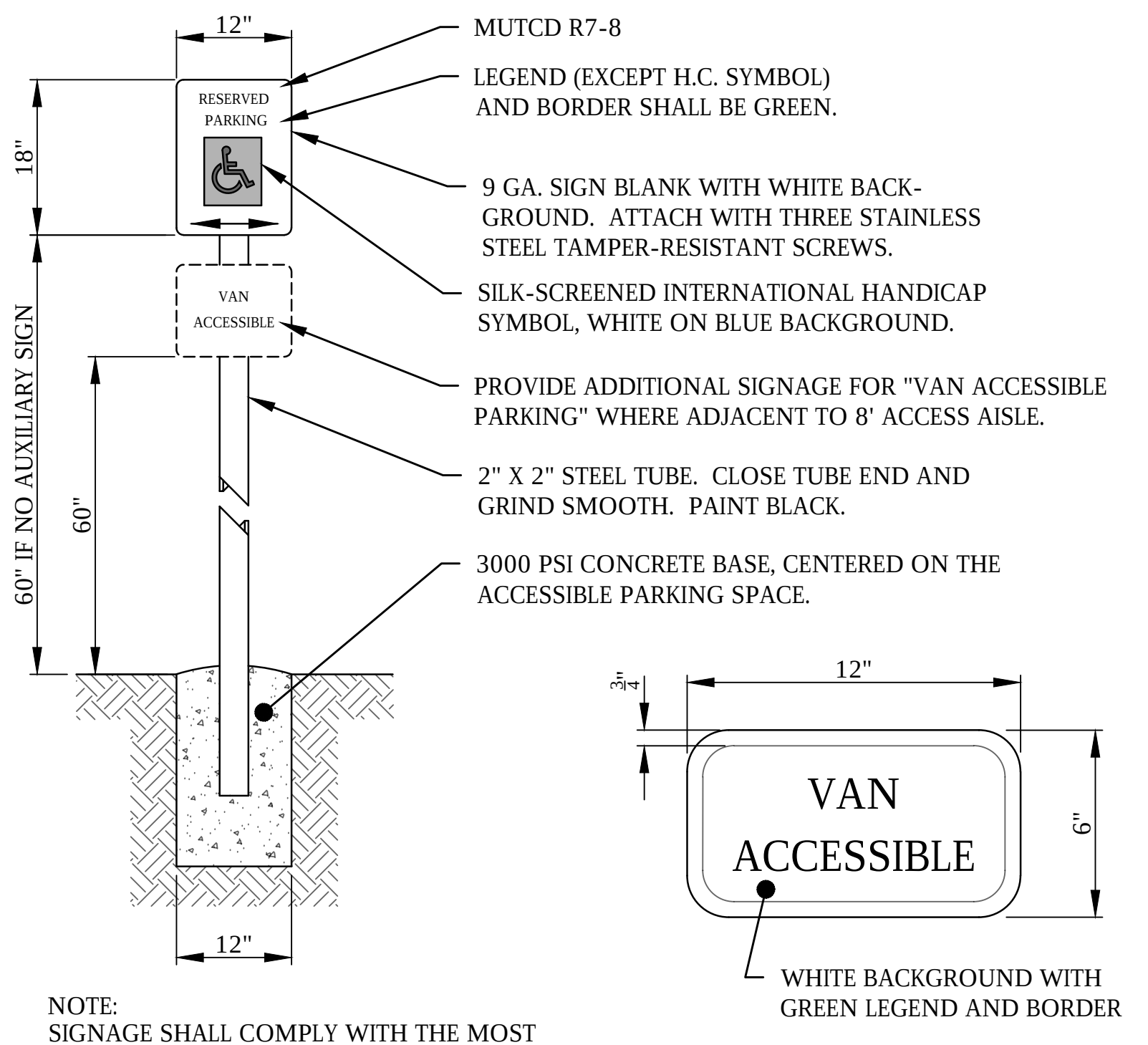


10

12" NDS SANITARY DRAIN

NO SCALE


12"
18"
RESERVED PARKING
VAN ACCESSIBLE
60" IF NO AUXILIARY SIGN
60"
12"
MUTCD R7-8
LEGEND (EXCEPT H.C. SYMBOL) AND BORDER SHALL BE GREEN.
9 GA. SIGN BLANK WITH WHITE BACK-GROUND. ATTACH WITH THREE STAINLESS STEEL TAMPER-RESISTANT SCREWS.
SILK-SCREENED INTERNATIONAL HANDICAP SYMBOL, WHITE ON BLUE BACKGROUND.
PROVIDE ADDITIONAL SIGNAGE FOR "VAN ACCESSIBLE PARKING" WHERE ADJACENT TO 8' ACCESS AISLE.
2" X 2" STEEL TUBE. CLOSE TUBE END AND GRIND SMOOTH. PAINT BLACK.
3000 PSI CONCRETE BASE, CENTERED ON THE ACCESSIBLE PARKING SPACE.
$\frac{3}{4}$"
12"
6"
VAN ACCESSIBLE
WHITE BACKGROUND WITH GREEN LEGEND AND BORDER

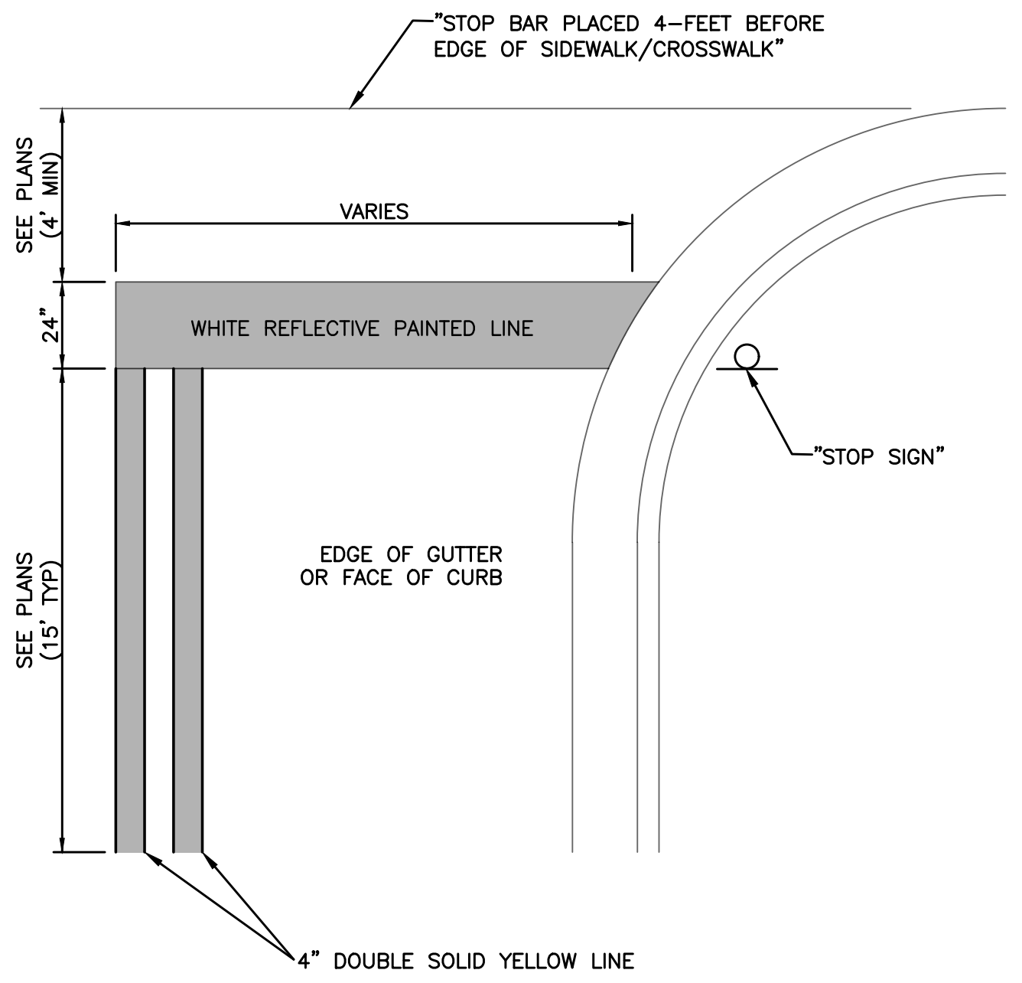
VAN ACCESS PLATE

NOTE:
SIGNAGE SHALL COMPLY WITH THE MOST CURRENT AMERICANS WITH DISABILITIES ACT (A.D.A.) SIGNAGE GUIDELINES.

7

ACCESSIBLE PARKING SIGN

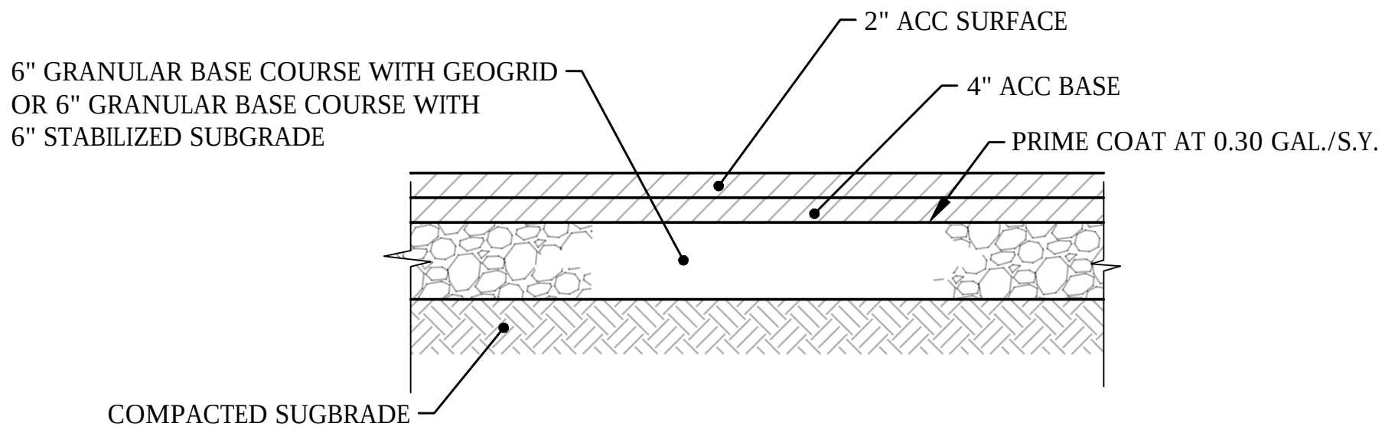
NO SCALE


"STOP BAR PLACED 4-FEET BEFORE EDGE OF SIDEWALK/CROSSWALK"
SEE PLANS (4' MIN)
VARIES
24"
WHITE REFLECTIVE PAINTED LINE
"STOP SIGN"
SEE PLANS (15' TYP)
EDGE OF GUTTER OR FACE OF CURB
4" DOUBLE SOLID YELLOW LINE

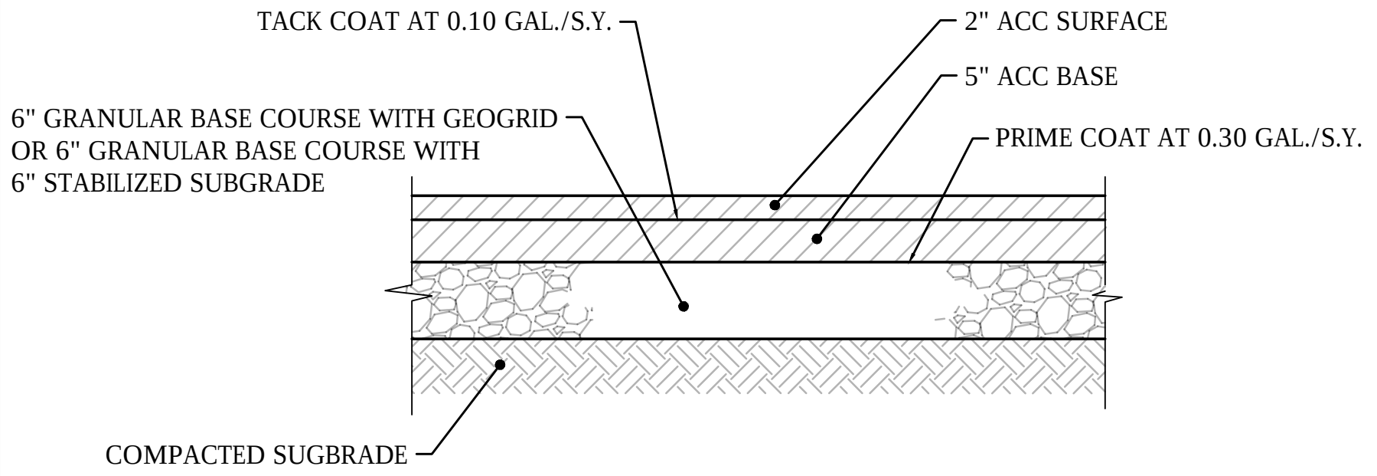
4

PAINTED STOP BAR

NOT TO SCALE


2" ACC SURFACE
6" GRANULAR BASE COURSE WITH GEOGRID OR 6" GRANULAR BASE COURSE WITH 6" STABILIZED SUBGRADE
4" ACC BASE
PRIME COAT AT 0.30 GAL./S.Y.
COMPACTED SUGBRADE

LIGHT DUTY PAVEMENT


TACK COAT AT 0.10 GAL./S.Y.
2" ACC SURFACE
5" ACC BASE
6" GRANULAR BASE COURSE WITH GEOGRID OR 6" GRANULAR BASE COURSE WITH 6" STABILIZED SUBGRADE
PRIME COAT AT 0.30 GAL./S.Y.
COMPACTED SUGBRADE

HEAVY DUTY PAVEMENT

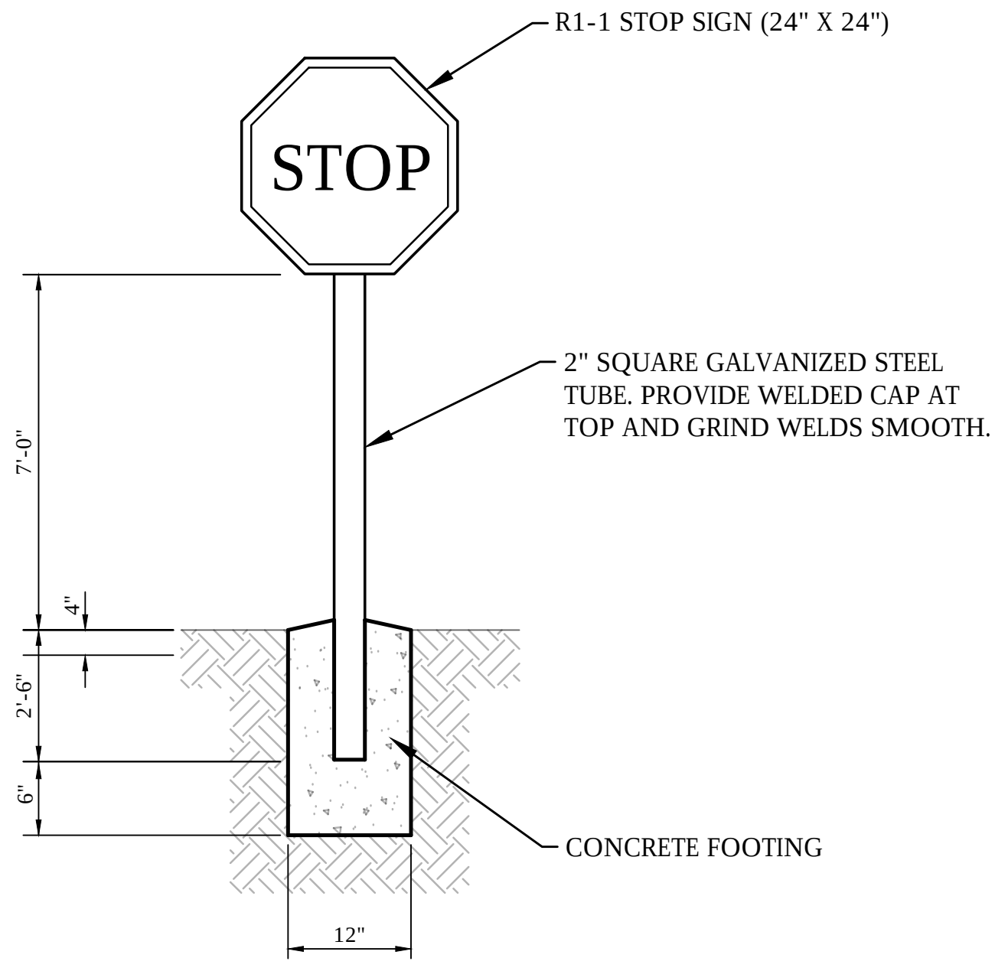
NOTE:

ON ALL EXISTING PAVEMENT REPAIR OR REPLACEMENT USE THE PAVEMENT SECTIONS SHOWN ABOVE OR MATCH THE EXISTING SECTION, WHICHEVER IS GREATER.

1

ASPHALT PAVEMENT

NO SCALE


R1-1 STOP SIGN (24" X 24")
STOP
2" SQUARE GALVANIZED STEEL TUBE. PROVIDE WELDED CAP AT TOP AND GRIND WELDS SMOOTH.
7'-0"
4"
2'-6"
6"
CONCRETE FOOTING
12"

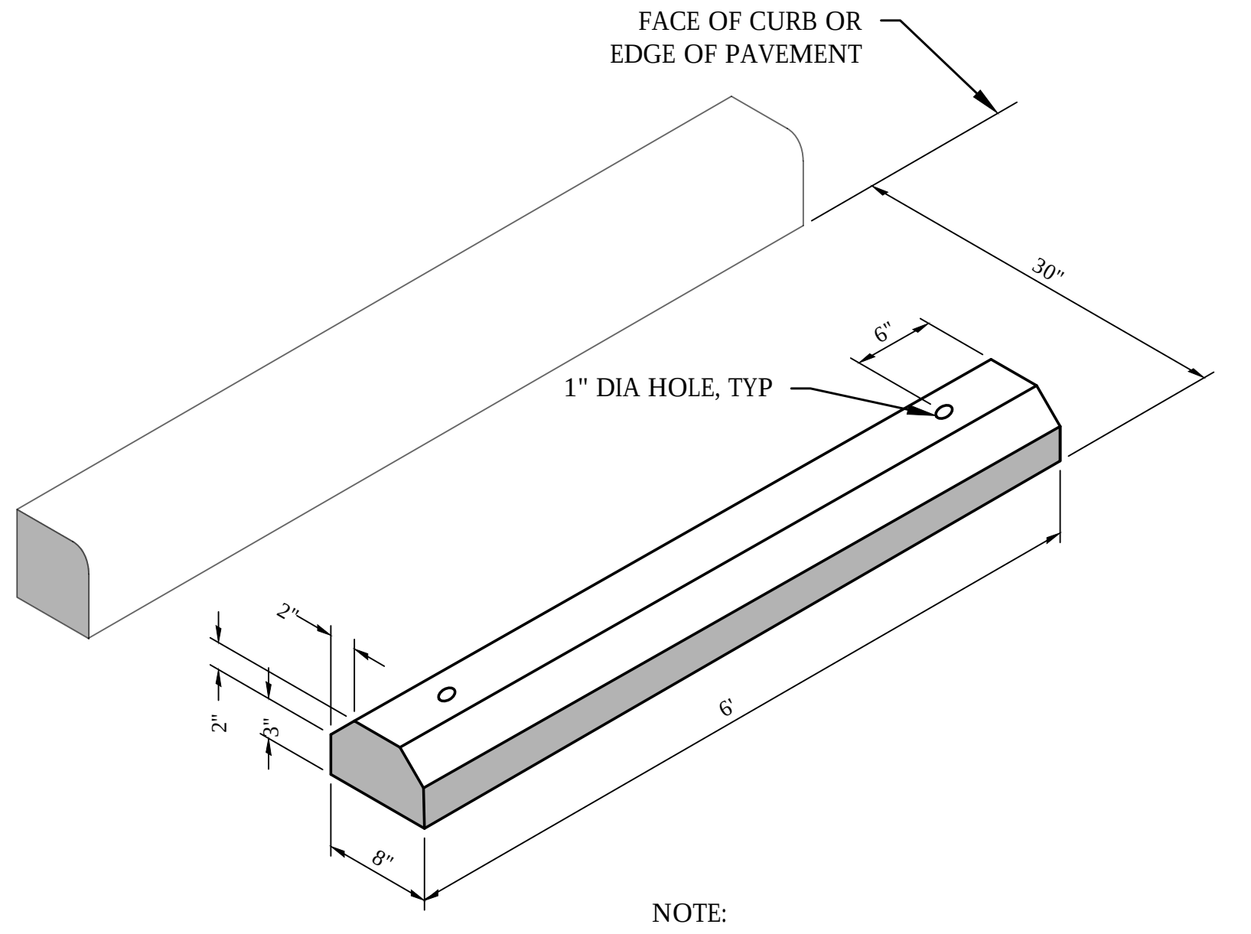
NOTE:

SIGN SHALL BE LOCATED 3' FROM THE EDGE OF THE PAVEMENT UNLESS SUCH PLACEMENT WOULD OBSTRUCT THE SIDEWALK.

11

STOP SIGN

NO SCALE



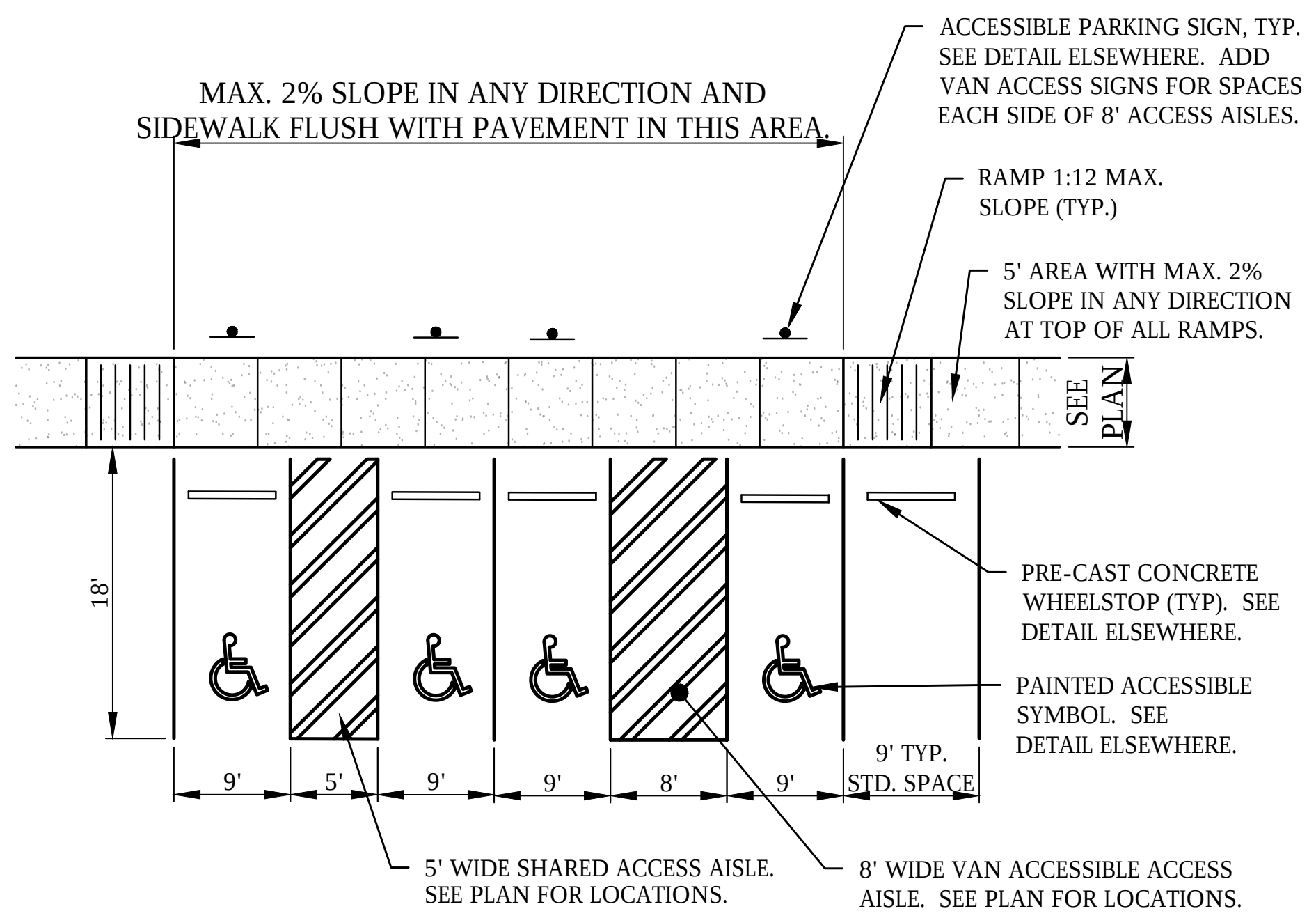
NOTE:

WHEEL STOPS REQUIRE TWO No. 5 X 24" STEEL BAR ANCHOR STAKES FOR EACH SECTION. EACH SECTION SHALL BE REINFORCED WITH TWO No. 3 DEFORMED BARS.

8

PRECAST CONCRETE WHEELSTOP

NO SCALE

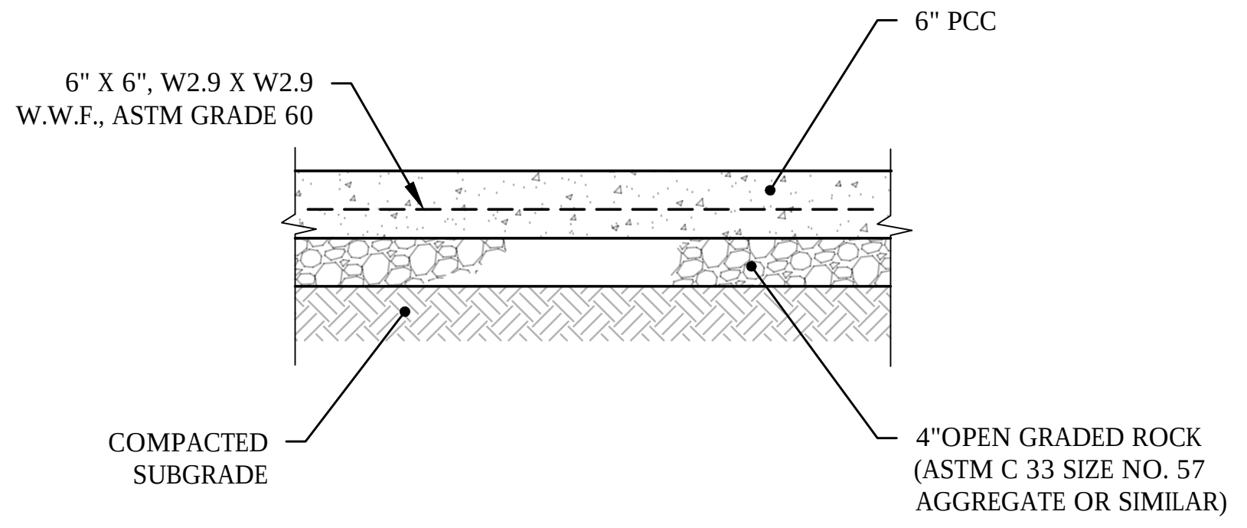

MAX. 2% SLOPE IN ANY DIRECTION AND SIDEWALK FLUSH WITH PAVEMENT IN THIS AREA.
ACCESSIBLE PARKING SIGN, TYP. SEE DETAIL ELSEWHERE. ADD VAN ACCESS SIGNS FOR SPACES EACH SIDE OF 8' ACCESS AISLES.
RAMP 1:12 MAX. SLOPE (TYP.)
5' AREA WITH MAX. 2% SLOPE IN ANY DIRECTION AT TOP OF ALL RAMPS.
SEE PLAN
18'
PRE-CAST CONCRETE WHEELSTOP (TYP). SEE DETAIL ELSEWHERE.
PAINTED ACCESSIBLE SYMBOL. SEE DETAIL ELSEWHERE.
9' TYP. STD. SPACE
9'
5'
9'
9'
8'
9'
5' WIDE SHARED ACCESS AISLE. SEE PLAN FOR LOCATIONS.
8' WIDE VAN ACCESSIBLE ACCESS AISLE. SEE PLAN FOR LOCATIONS.

ALL PAINTED SPACE LIMIT LINES SHOULD BE SOLID WHITE LINES 4" WIDE. MAXIMUM 2% SLOPE IN ANY DIRECTION FOR PARKING SPACES & ACCESS ISLES

5

ACCESSIBLE PARKING LAYOUT

NO SCALE


6" PCC
6" X 6", W2.9 X W2.9 W.W.F., ASTM GRADE 60
COMPACTED SUBGRADE
4"OPEN GRADED ROCK (ASTM C 33 SIZE NO. 57 AGGREGATE OR SIMILAR)

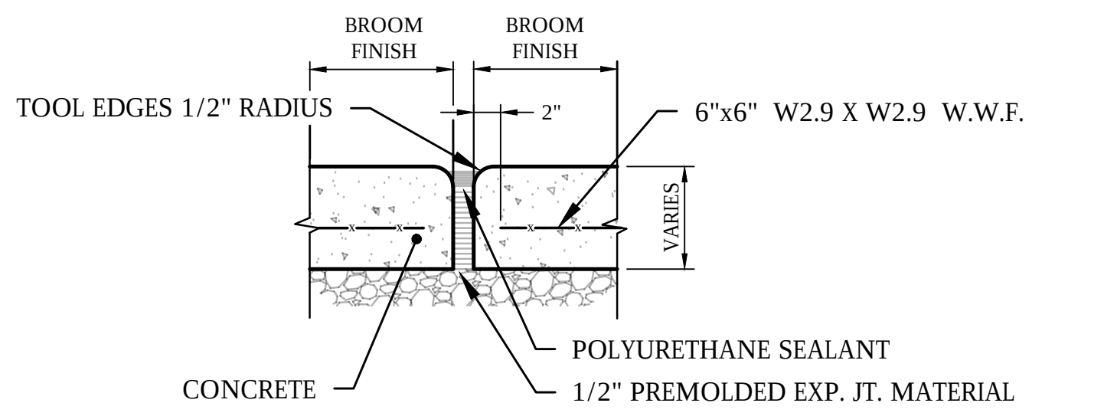
NOTE:

REINFORCING STEEL SHALL BE ASTM GRADE 60.

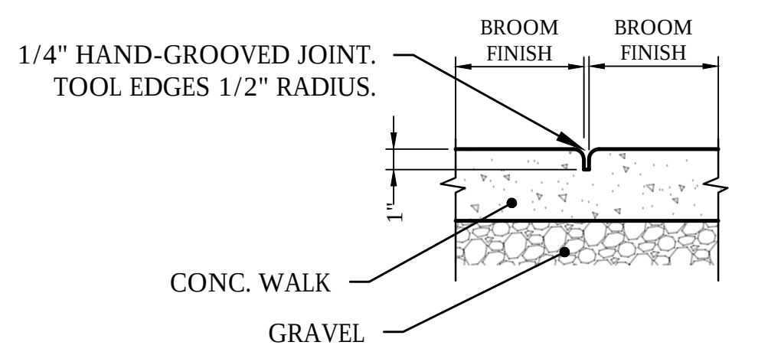
2

CONCRETE PAVEMENT

NO SCALE



EXPANSION JOINT

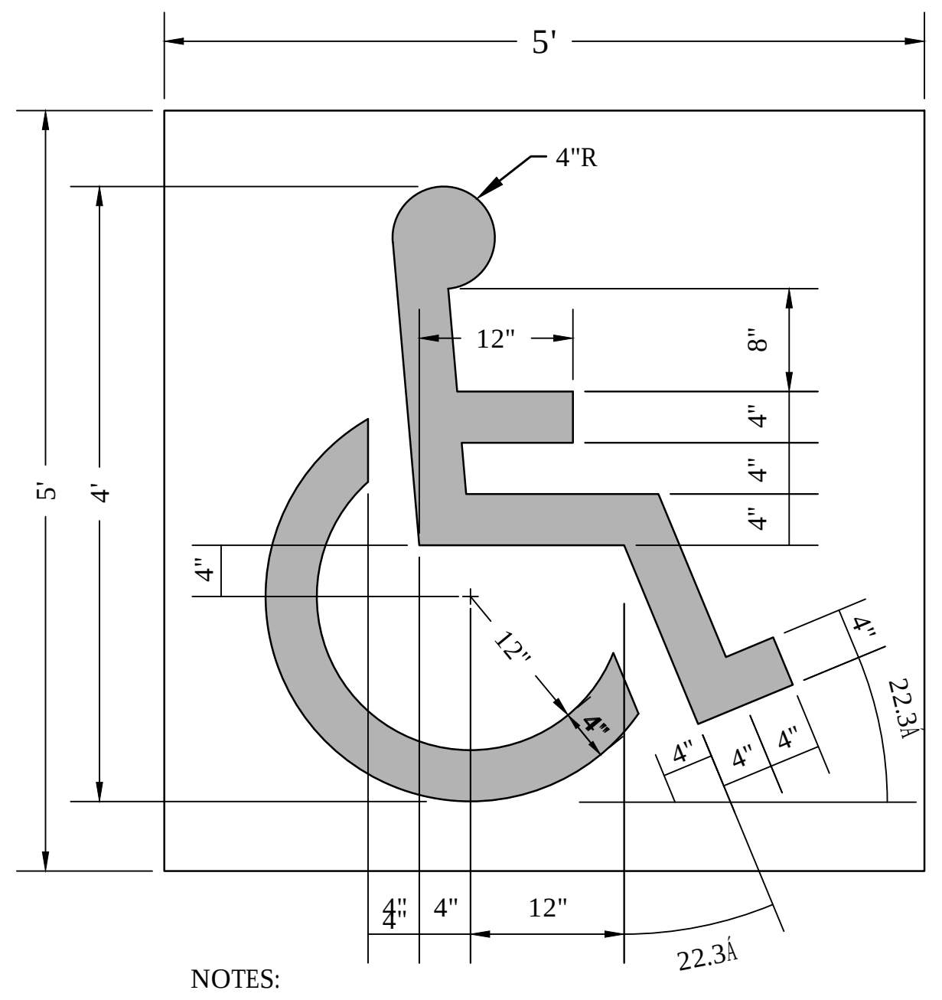


CONTROL JOINT

3

SIDEWALK JOINTS

NO SCALE



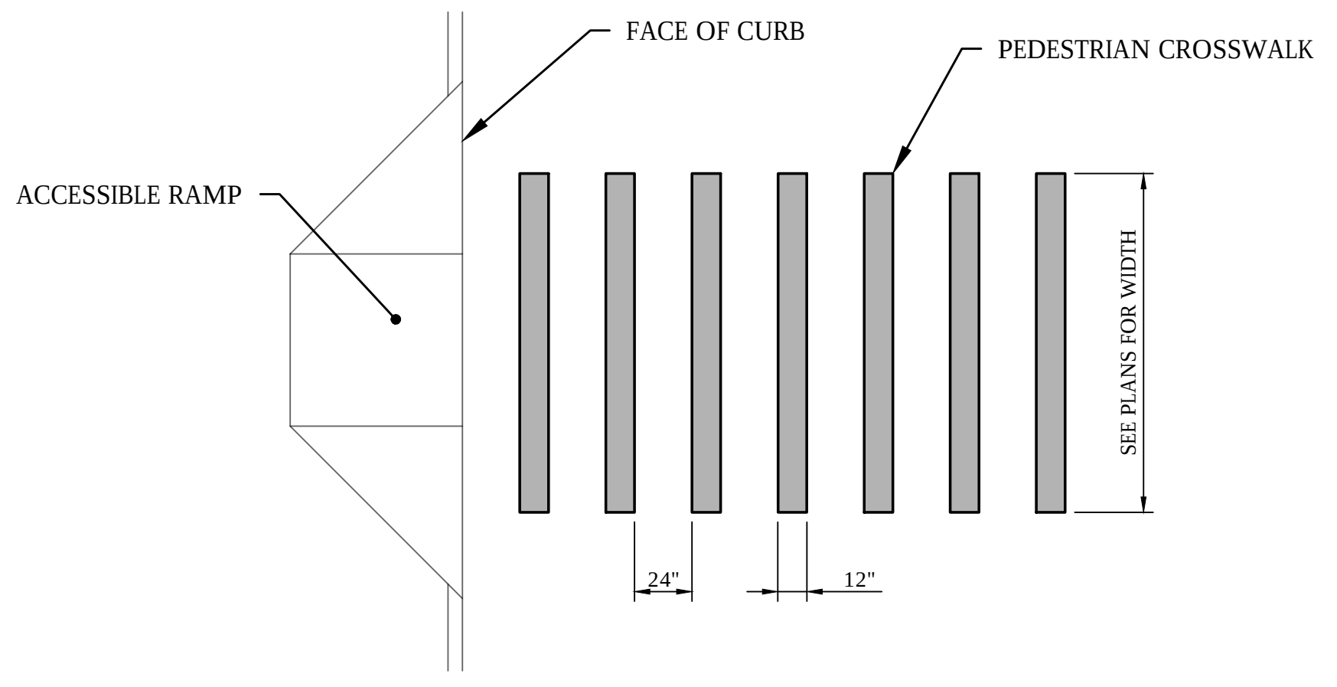
NOTES:

1. THE ACCESSIBLE SYMBOL SHALL BE PAINTED ON ALL ACCESSIBLE SPACES.
2. THE ACCESSIBLE SYMBOL SHALL BE WHITE AND SHALL BE PAINTED ON A BLUE BACKGROUND.

12

PAINTED ACCESSIBLE SYMBOL

NO SCALE



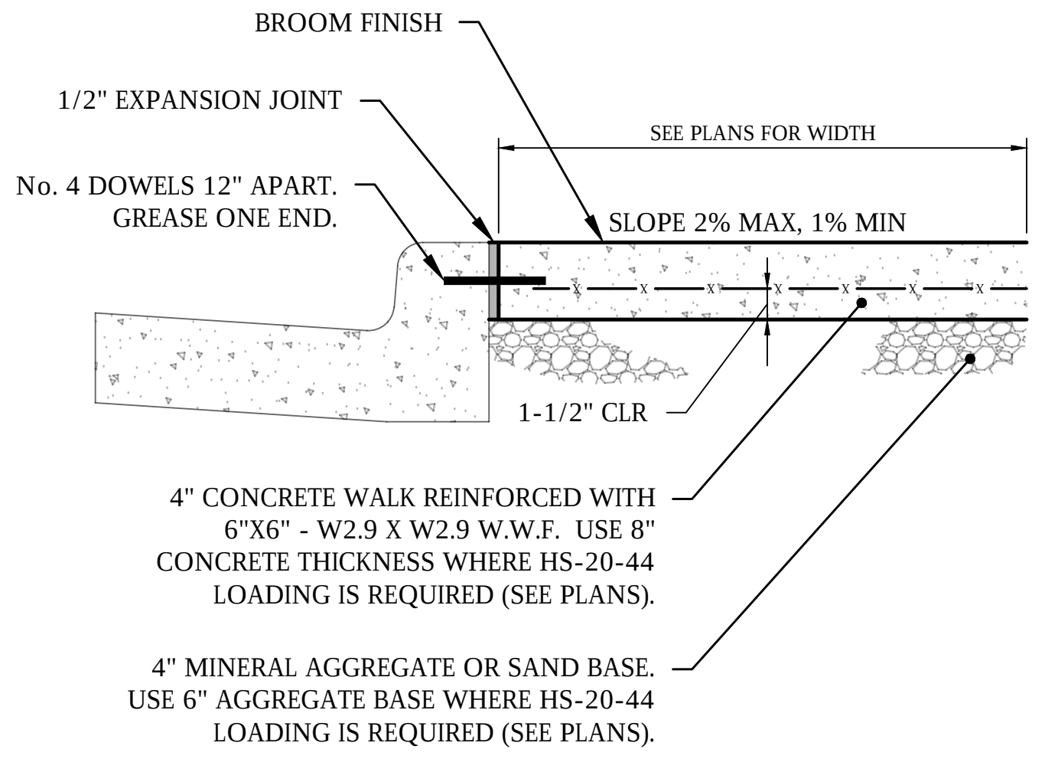
NOTES:

1. THE PEDESTRIAN CROSSWALK SHALL BE IN COMPLIANCE WITH ADAAG 403.3.
2. MARKINGS SHALL BE SOLID WHITE PAINTED ON ASPHALT.
3. PAINT 12" WIDE STRIPES AS INDICATED. USE PORTER "TRAFFIC WHITE" PAINT OR APPROVED EQUAL.

9

PEDESTRIAN CROSSWALK

NO SCALE


BROOM FINISH
1/2" EXPANSION JOINT
SEE PLANS FOR WIDTH
No. 4 DOWELS 12" APART. GREASE ONE END.
SLOPE 2% MAX, 1% MIN
1-1/2" CLR
4" CONCRETE WALK REINFORCED WITH 6"X6" - W2.9 X W2.9 W.W.F. USE 8" CONCRETE THICKNESS WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS).
4" MINERAL AGGREGATE OR SAND BASE. USE 6" AGGREGATE BASE WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS).

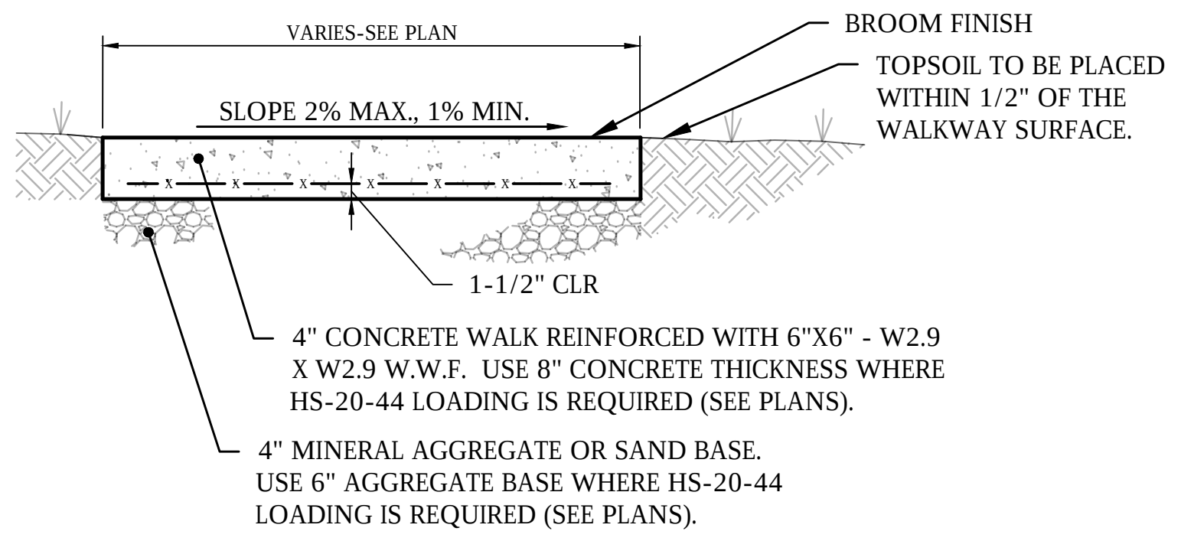
NOTES:

1. USE 4000 PSI CONCRETE AND GRADE 60 STEEL.
2. PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART, AND WHERE SIDEWALKS ABUT RIGID MATERIALS.

6

SIDEWALK AT CURB AND GUTTER

NO SCALE


VARIES-SEE PLAN
BROOM FINISH
TOPSOIL TO BE PLACED WITHIN 1/2" OF THE WALKWAY SURFACE.
SLOPE 2% MAX., 1% MIN.
1-1/2" CLR
4" CONCRETE WALK REINFORCED WITH 6"X6" - W2.9 X W2.9 W.W.F. USE 8" CONCRETE THICKNESS WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS).
4" MINERAL AGGREGATE OR SAND BASE. USE 6" AGGREGATE BASE WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS).

NOTES:

1. USE 4000 PSI CONCRETE AND GRADE 60 STEEL.
2. PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART, AND WHERE SIDEWALKS ABUT RIGID MATERIALS.

CONCRETE SIDEWALK

NO SCALE

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GEORGE B. HUDDLESTON, III
NUMBER PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C8.0

DRAWING NAME
DETAILS

HEREFORD · DOOLEY
ARCHITECTS

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PROJECT # 217026.00
CLIENT PROJECT NUMBER: 123456789

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2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019
△

TITLE
DETAILS

SHEET
C8.0

C:_Revit Local\217026.00_Lee's Summit MOB_07.13.17_LOCAL_2016_nicole.hermo@hdarchitects.com.rvt
7/25/2017 11:03:59 AM
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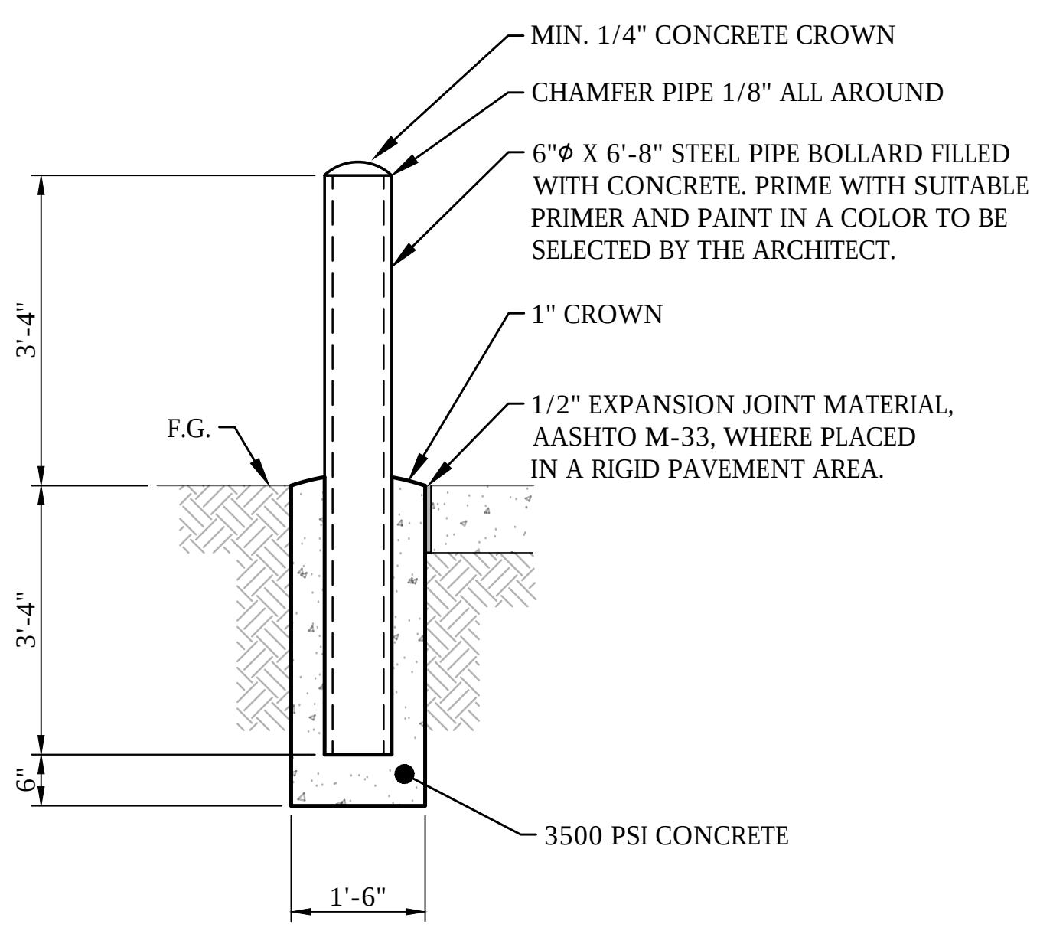

MIN. 1/4" CONCRETE CROWN
CHAMFER PIPE 1/8" ALL AROUND
6"Ø X 6'-8" STEEL PIPE BOLLARD FILLED WITH CONCRETE. PRIME WITH SUITABLE PRIMER AND PAINT IN A COLOR TO BE SELECTED BY THE ARCHITECT.
1" CROWN
1/2" EXPANSION JOINT MATERIAL, AASHTO M-33, WHERE PLACED IN A RIGID PAVEMENT AREA.
F.G.
3'-4"
3'-4"
6"
3500 PSI CONCRETE
1'-6"

NOTE:

THE PRIMER AND FIRST COAT OF PAINT SHALL BE APPLIED BEFORE INSTALLATION. A SECOND COAT OF PAINT SHALL BE APPLIED AFTER INSTALLATION.

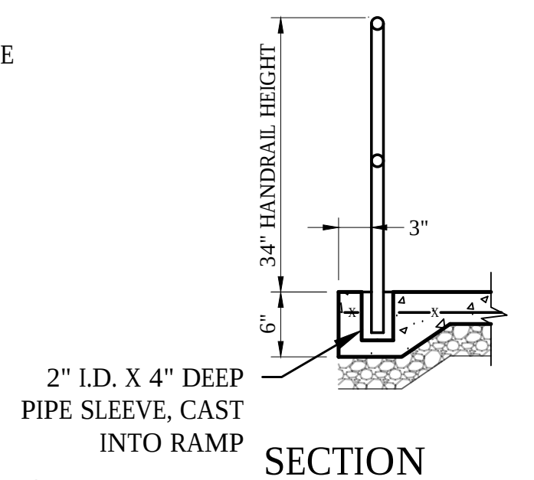
10

STEEL BOLLARD

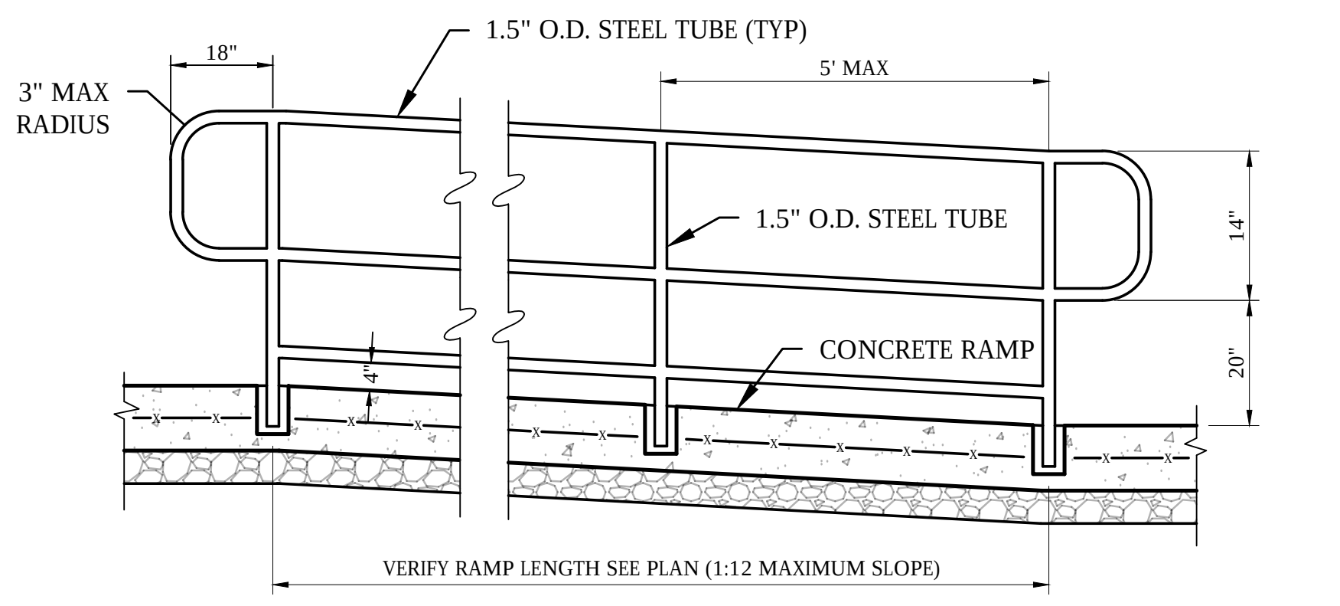
NO SCALE

NOTES:

1. PROVIDE 34" HEIGHT 1.5" O.D. HAND RAIL ON BOTH SIDES OF THE RAMP WITH 18" HAND RAIL EXTENSIONS PAST THE TOP AND BOTTOM OF THE RAMP.
2. VARIATIONS IN HAND RAIL HEIGHT SHALL NOT BE ALLOWED.
3. THE RAMP SHALL HAVE A MINIMUM WIDTH OF 60".
4. HAND RAIL SHALL BE SMOOTH-FINISH. ALL WELDED SURFACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL, COLOR TO BE SELECTED BY THE ARCHITECT.
5. PROVIDE HAND RAIL/GUARD RAIL AT ALL RETAINING WALLS GREATER THAN 30" IN HEIGHT.
6. RAMP CONSTRUCTION SHALL BE SIMILAR TO CONCRETE SIDEWALKS.



SECTION

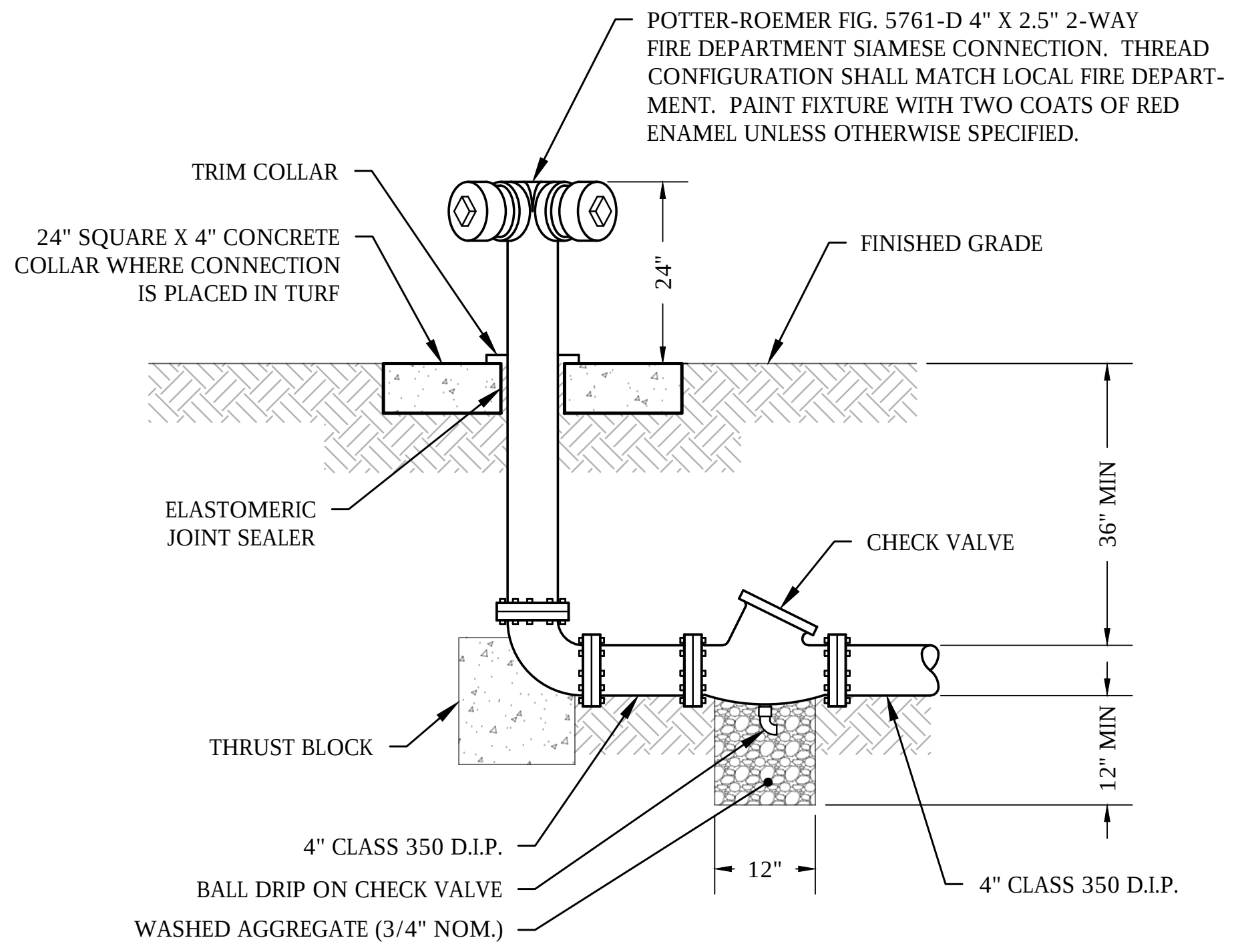

1.5" O.D. STEEL TUBE (TYP)
18"
3" MAX RADIUS
5' MAX
1.5" O.D. STEEL TUBE
14"
CONCRETE RAMP
20"
4"
VERIFY RAMP LENGTH SEE PLAN (1:12 MAXIMUM SLOPE)

SECTION

9

RAMP WITH HAND RAIL

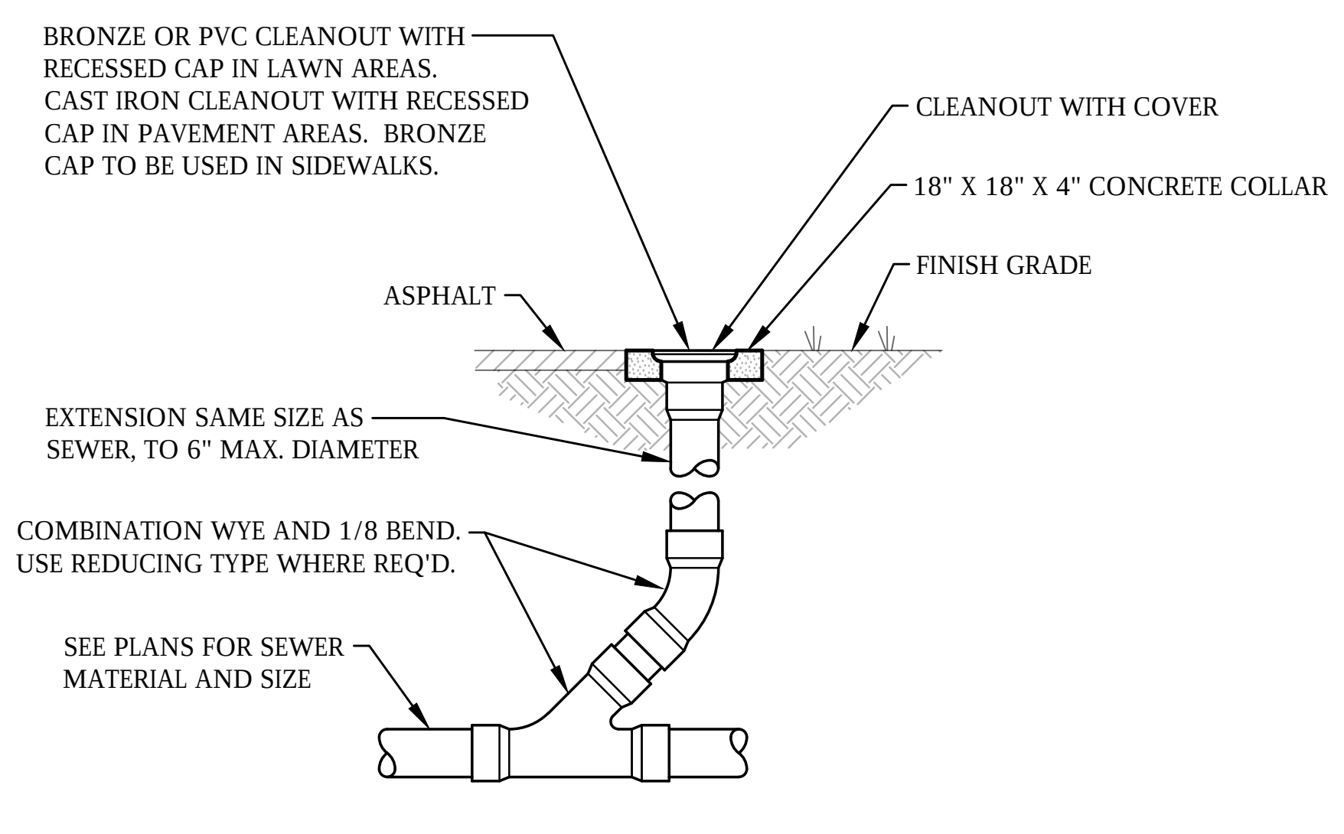
NO SCALE


POTTER-ROEMER FIG. 5761-D 4" X 2.5" 2-WAY FIRE DEPARTMENT SIAMESE CONNECTION. THREAD CONFIGURATION SHALL MATCH LOCAL FIRE DEPARTMENT. PAINT FIXTURE WITH TWO COATS OF RED ENAMEL UNLESS OTHERWISE SPECIFIED.
TRIM COLLAR
24" SQUARE X 4" CONCRETE COLLAR WHERE CONNECTION IS PLACED IN TURF
24"
FINISHED GRADE
ELASTOMERIC JOINT SEALER
CHECK VALVE
36" MIN
THRUST BLOCK
12" MIN
4" CLASS 350 D.I.P.
BALL DRIP ON CHECK VALVE
WASHED AGGREGATE (3/4" NOM.)
12"
4" CLASS 350 D.I.P.

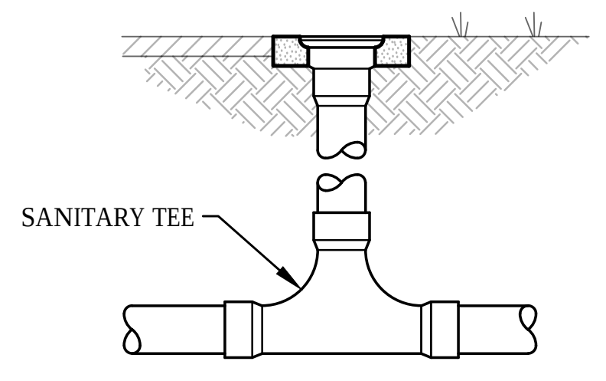
1

REMOTE FIRE DEPT. CONNECTION

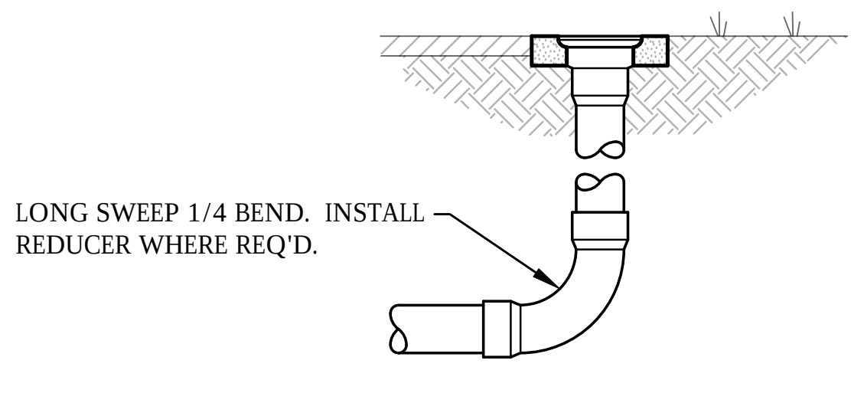
NO SCALE


BRONZE OR PVC CLEANOUT WITH RECESSED CAP IN LAWN AREAS. CAST IRON CLEANOUT WITH RECESSED CAP IN PAVEMENT AREAS. BRONZE CAP TO BE USED IN SIDEWALKS.
CLEANOUT WITH COVER
18" X 18" X 4" CONCRETE COLLAR
FINISH GRADE
ASPHALT
EXTENSION SAME SIZE AS SEWER, TO 6" MAX. DIAMETER
COMBINATION WYE AND 1/8 BEND. USE REDUCING TYPE WHERE REQ'D.
SEE PLANS FOR SEWER MATERIAL AND SIZE

ONE-WAY



TWO-WAY

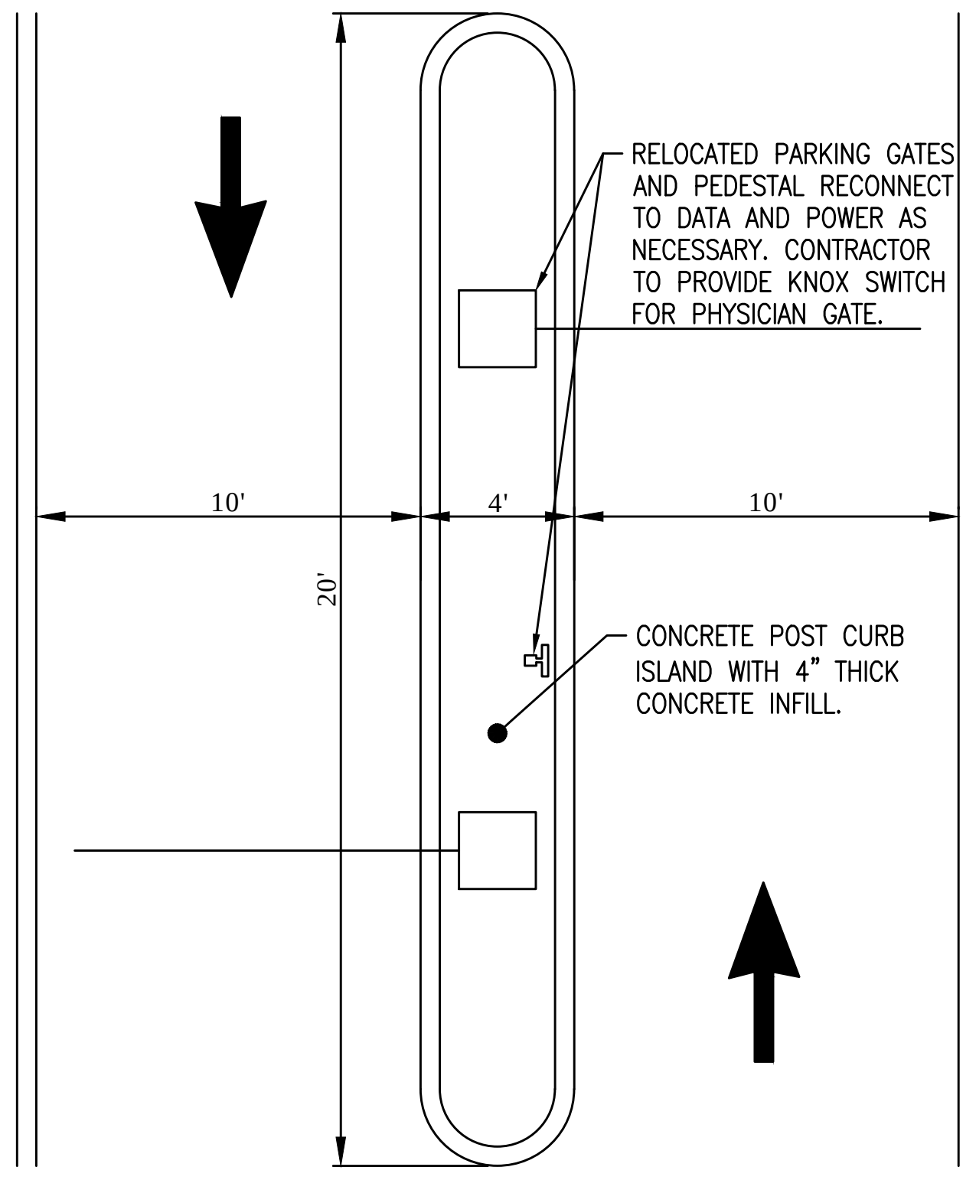


END-OF-LINE

11

CLEANOUTS

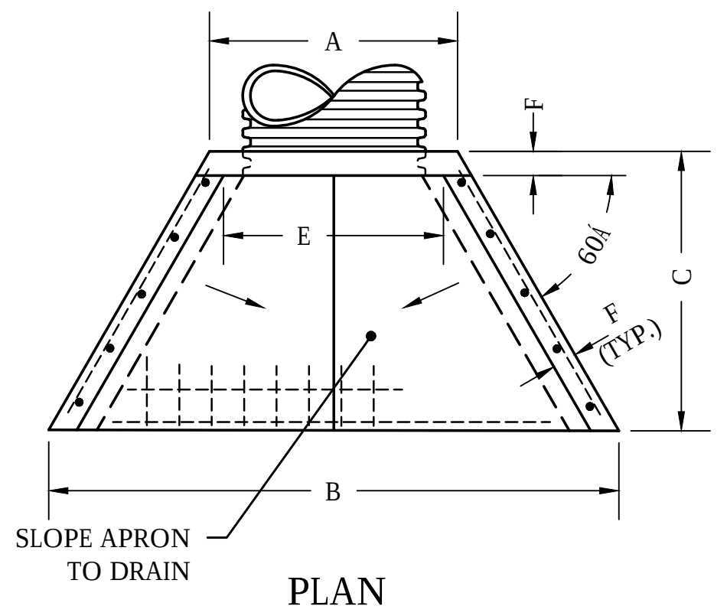
NO SCALE


RELOCATED PARKING GATES AND PEDESTAL RECONNECT TO DATA AND POWER AS NECESSARY. CONTRACTOR TO PROVIDE KNOX SWITCH FOR PHYSICIAN GATE.
10'
4'
10'
20'
CONCRETE POST CURB ISLAND WITH 4" THICK CONCRETE INFILL.

7

RESERVED PARKING GATE ISLAND

NOT TO SCALE



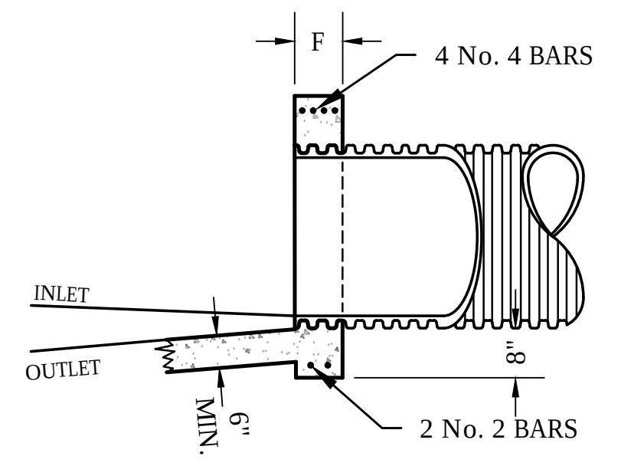
PLAN

TABLE OF DIMENSIONS				
SIZE	4'	6'	8'	10'
A	32"	48"	72"	96"
B	48"	72"	96"	120"
C	30"	44"	50"	56"
D	25"	36"	52"	66"
E	24"	36"	59"	83"
F	N/A	8"	8"	8"
MAX. OPG.	18"	26"	40"	
WT. (LB)	1090	3130	5625	8575

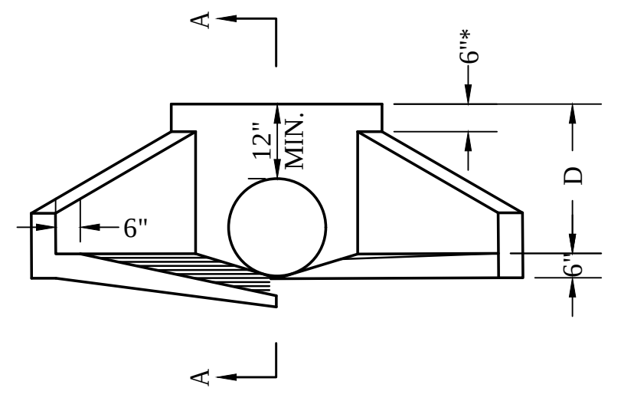
* 0" ON 4' WINGED HEADWALL

NOTE:

1. STEEL FEINFORCEMENT SHALL BE No. 4 BARS 12" APART EACH WAY IN FLOOR AND WALLS.
2. CHAMFER ALL EXPOSED EDGES 1".



SECTION A-A

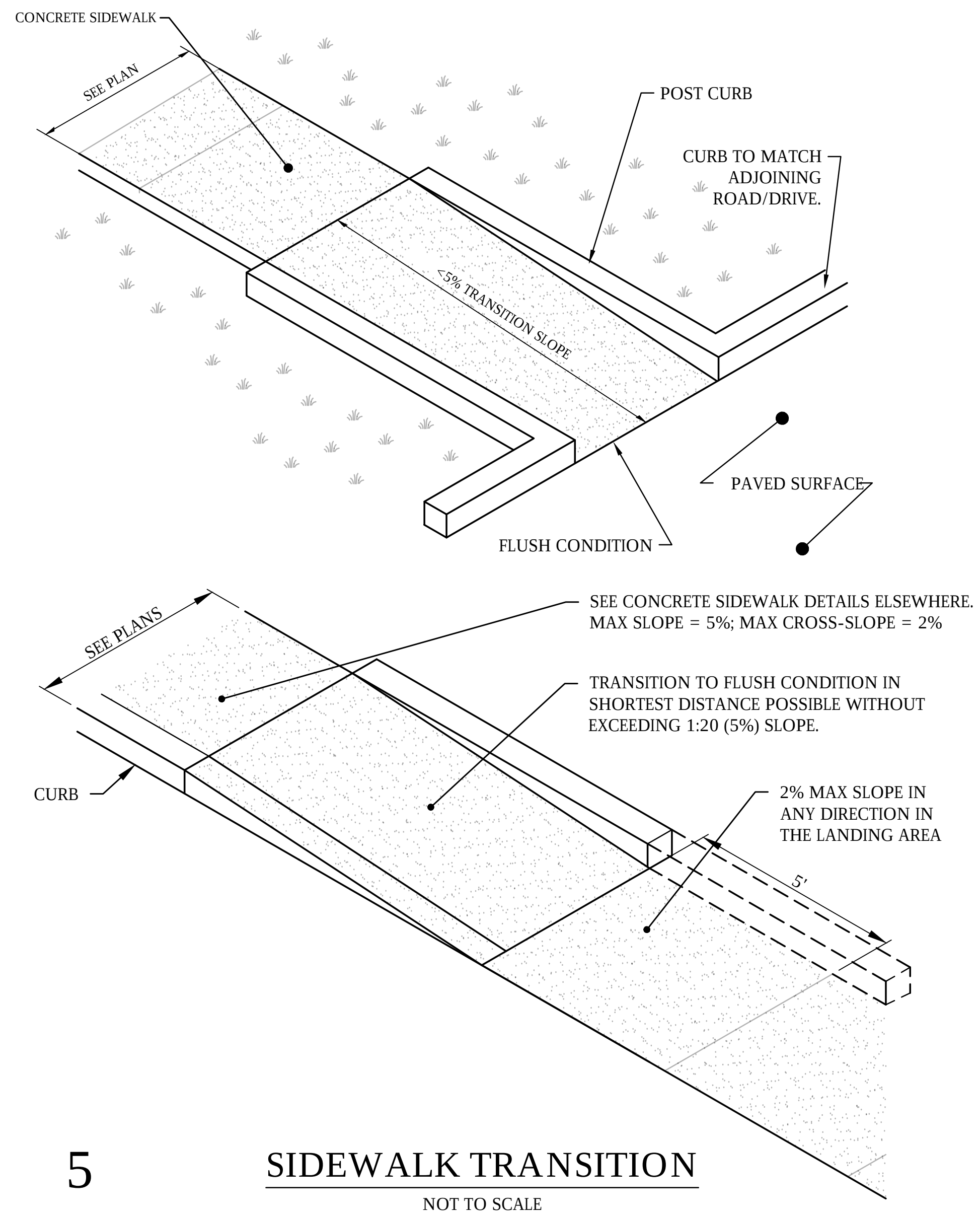


ELEVATION

8

WINGED HEADWALL/ENDWALL

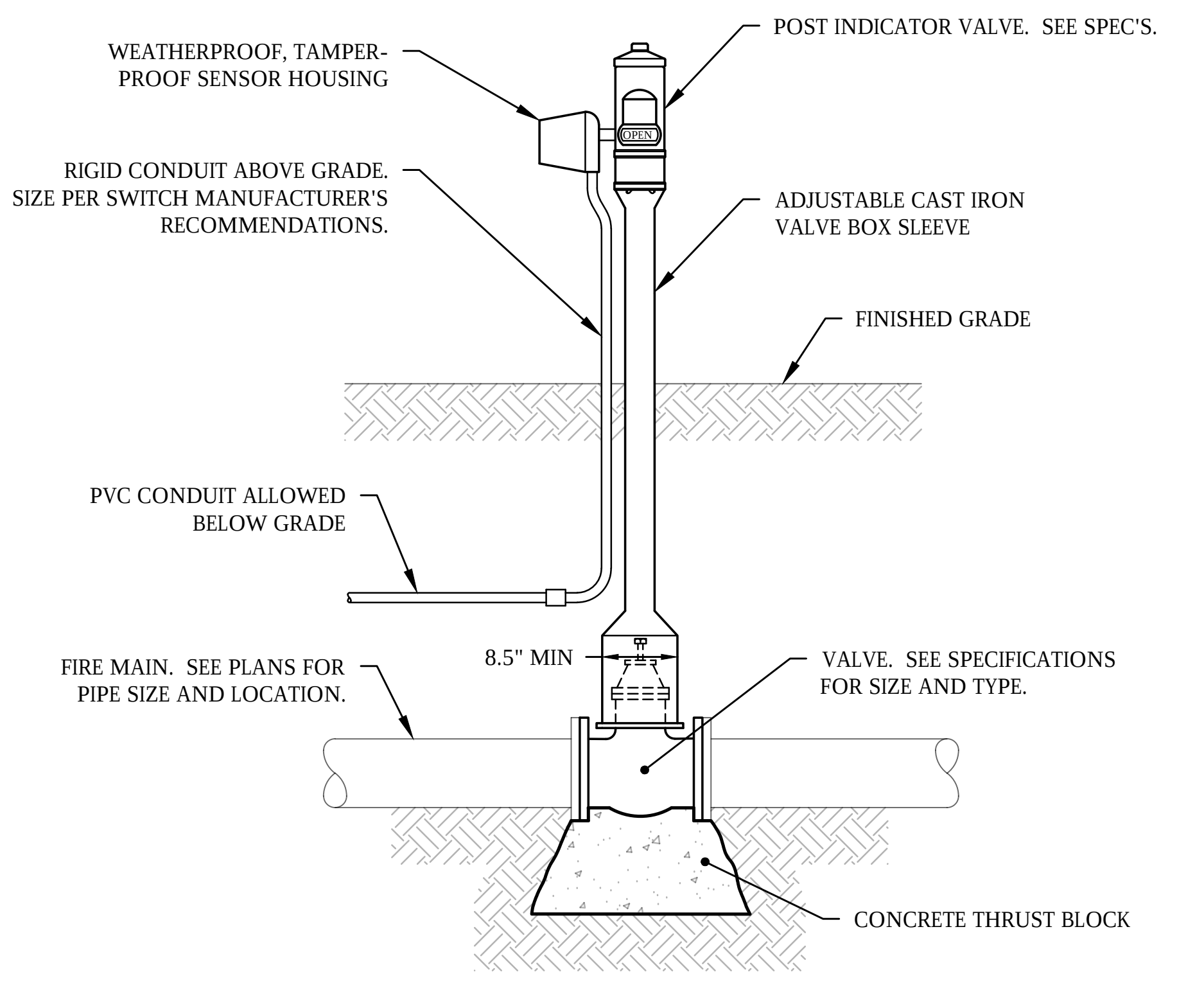
NO SCALE


CONCRETE SIDEWALK
SEE PLAN
POST CURB
CURB TO MATCH ADJOINING ROAD/DRIVE.
<5% TRANSITION SLOPE
PAVED SURFACE
FLUSH CONDITION
SEE PLANS
SEE CONCRETE SIDEWALK DETAILS ELSEWHERE. MAX SLOPE = 5%; MAX CROSS-SLOPE = 2%
TRANSITION TO FLUSH CONDITION IN SHORTEST DISTANCE POSSIBLE WITHOUT EXCEEDING 1:20 (5%) SLOPE.
CURB
2% MAX SLOPE IN ANY DIRECTION IN THE LANDING AREA
5'

5

SIDEWALK TRANSITION

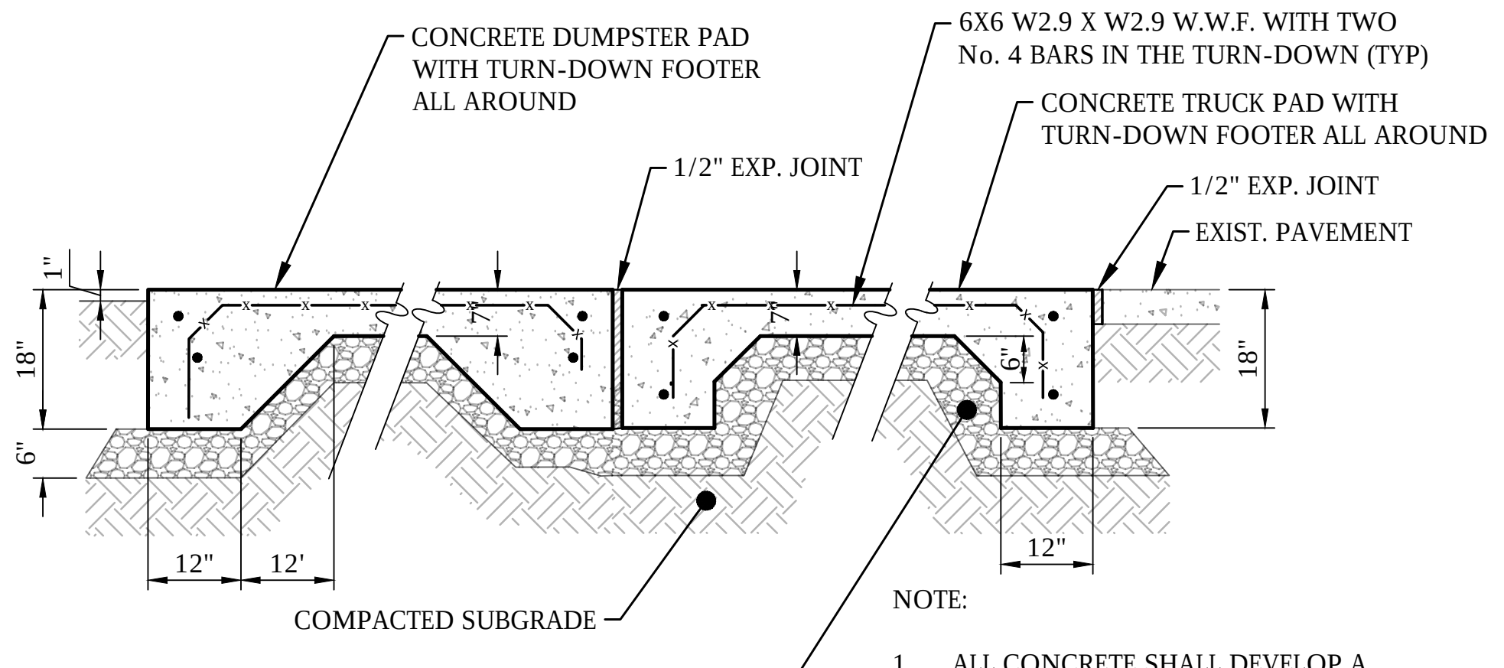
NOT TO SCALE


WEATHERPROOF, TAMPER-PROOF SENSOR HOUSING
POST INDICATOR VALVE. SEE SPEC'S.
OPEN
RIGID CONDUIT ABOVE GRADE. SIZE PER SWITCH MANUFACTURER'S RECOMMENDATIONS.
ADJUSTABLE CAST IRON VALVE BOX SLEEVE
FINISHED GRADE
PVC CONDUIT ALLOWED BELOW GRADE
8.5" MIN
FIRE MAIN. SEE PLANS FOR PIPE SIZE AND LOCATION.
VALVE. SEE SPECIFICATIONS FOR SIZE AND TYPE.
CONCRETE THRUST BLOCK

2

POST INDICATOR VALVE

NO SCALE


CONCRETE DUMPSTER PAD WITH TURN-DOWN FOOTER ALL AROUND
1/2" EXP. JOINT
6X6 W2.9 X W2.9 W.W.F. WITH TWO No. 4 BARS IN THE TURN-DOWN (TYP)
CONCRETE TRUCK PAD WITH TURN-DOWN FOOTER ALL AROUND
1/2" EXP. JOINT
EXIST. PAVEMENT
1"
18"
6"
7"
6"
18"
12"
12'
12"
COMPACTED SUBGRADE
12" DEPTH MINERAL AGGREGATE BASE

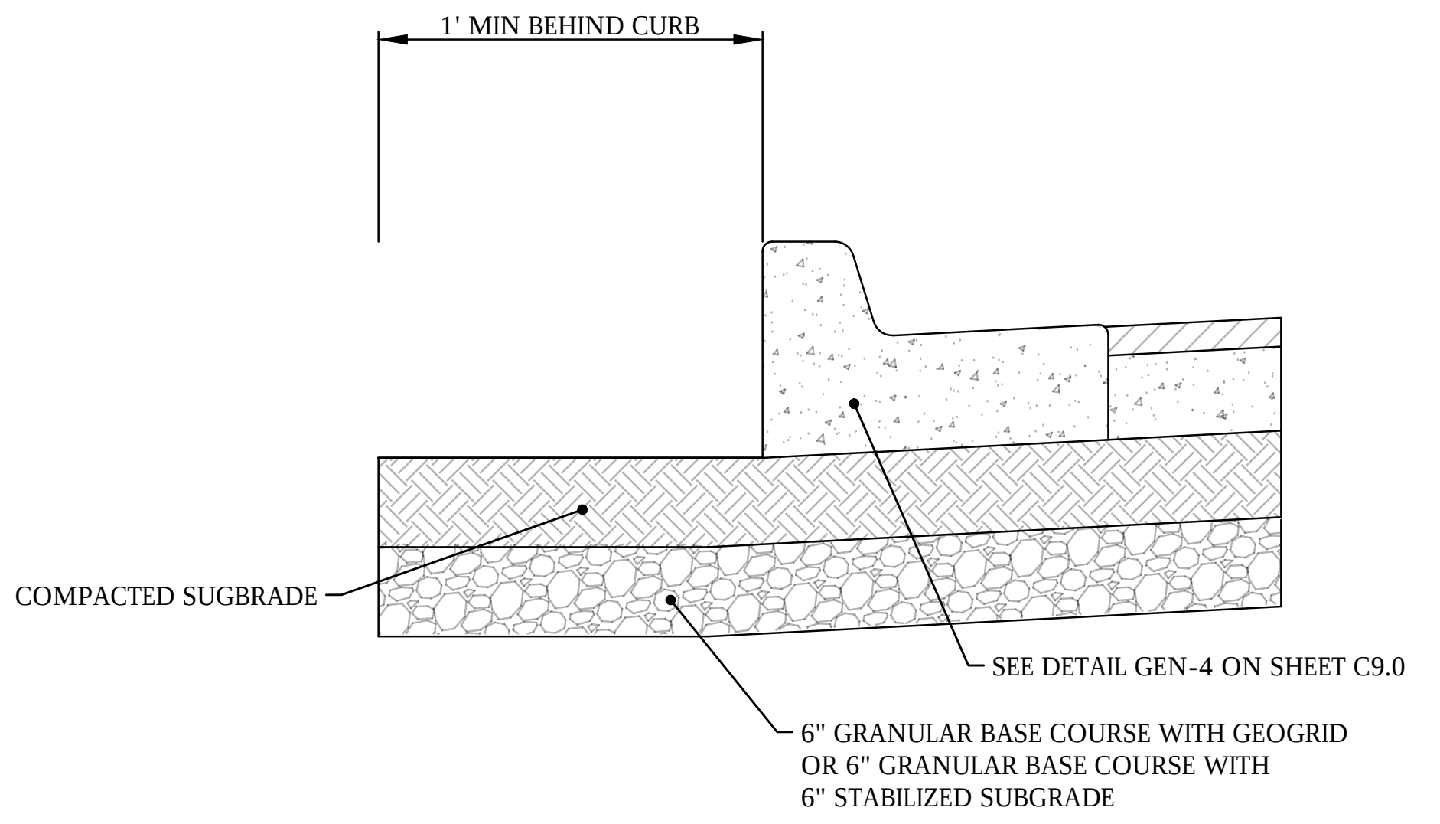
NOTE:

1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE.
2. BROOM-FINISH SURFACES OF BOTH PADS.

6

DUMPSTER PAD

NO SCALE


1' MIN BEHIND CURB
COMPACTED SUGBRADE
SEE DETAIL GEN-4 ON SHEET C9.0
6" GRANULAR BASE COURSE WITH GEOGRID OR 6" GRANULAR BASE COURSE WITH 6" STABILIZED SUBGRADE

3

CG-1 CURB AND GUTTER

NO SCALE

1615 EDGEWATER DRIVE, STE 200.
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www.smeinc.com

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816.282.5000

LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING
LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON, III
NUMBER PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C8.1

DRAWING NAME
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PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

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7/25/2017 11:03:59 AM

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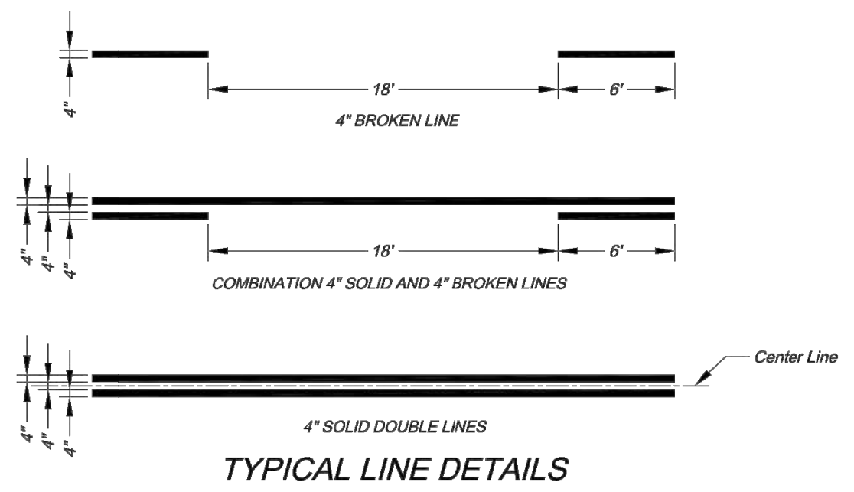
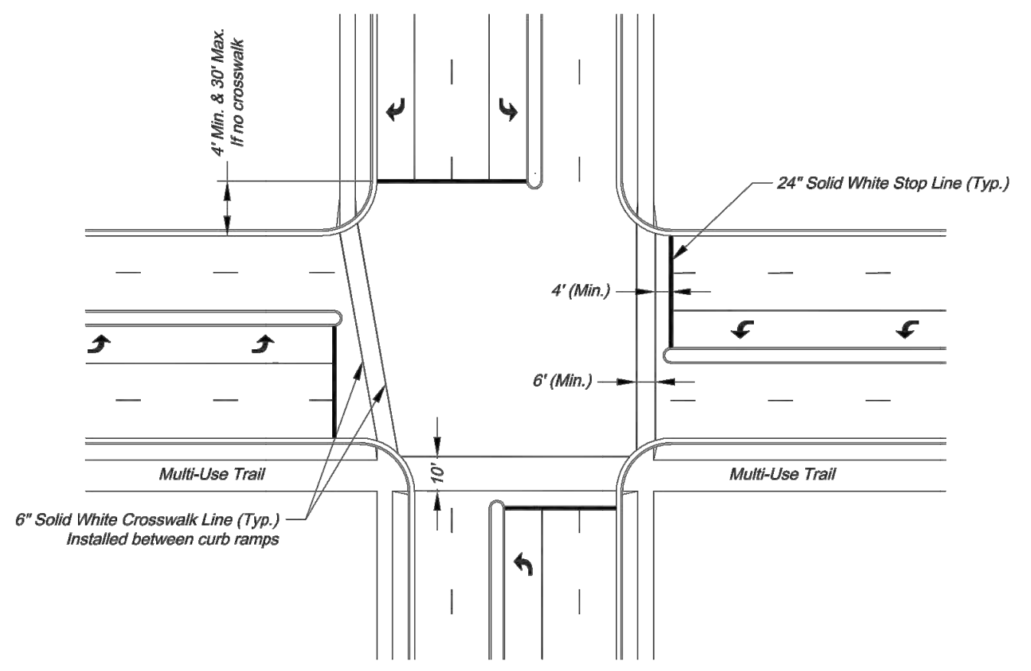


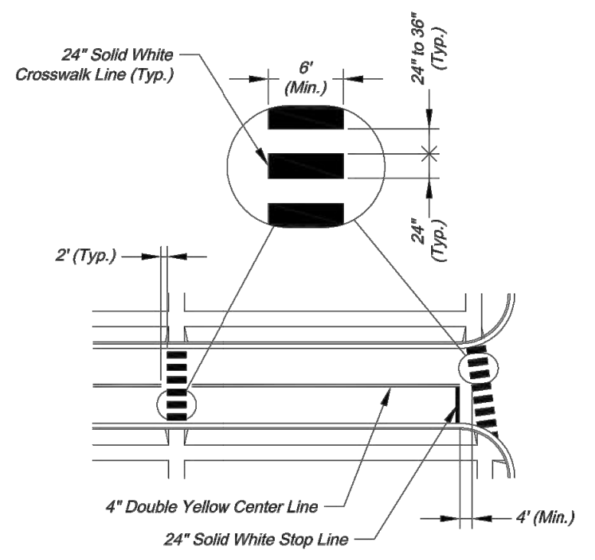
TYPICAL LINE DETAILS

NOTES:
1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.

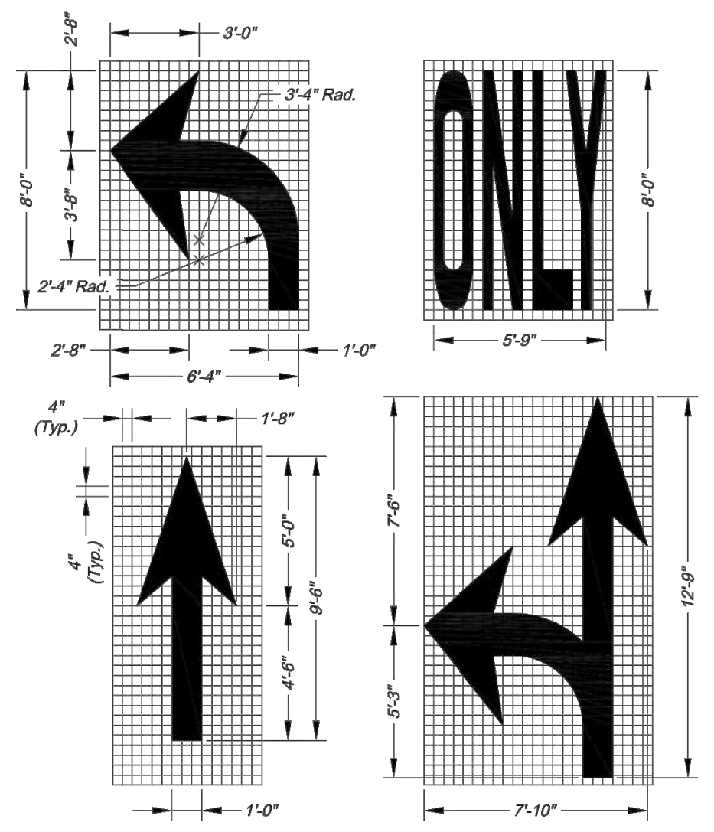

4' Min. & 30' Max. If no crosswalk
24" Solid White Stop Line (Typ.)
4' (Min.)
6' (Min.)
Multi-Use Trail
10'
Multi-Use Trail
6" Solid White Crosswalk Line (Typ.) Installed between curb ramps

TYPICAL INTERSECTION MARKINGS

NOTES:
1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
2. Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.

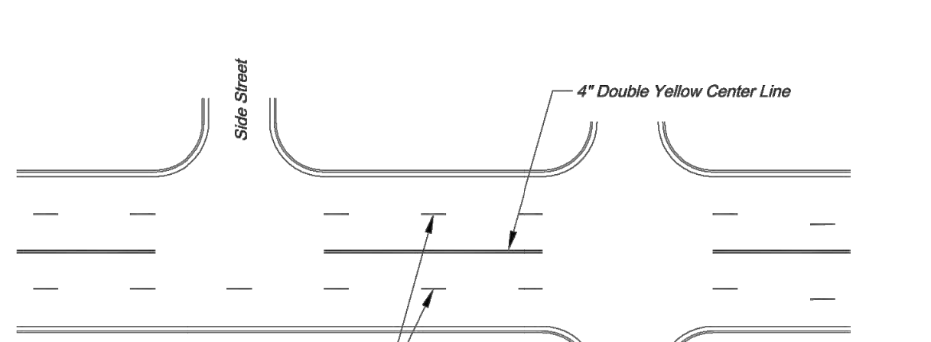

24" Solid White Crosswalk Line (Typ.)
6' (Min.)
24" to 36" (Typ.)
24" (Typ.)
2' (Typ.)
4" Double Yellow Center Line
24" Solid White Stop Line
4' (Min.)

TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

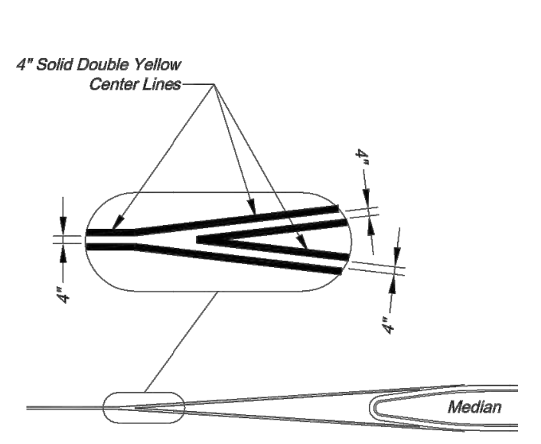


ARROW AND SYMBOL DETAILS

NOTES:
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY



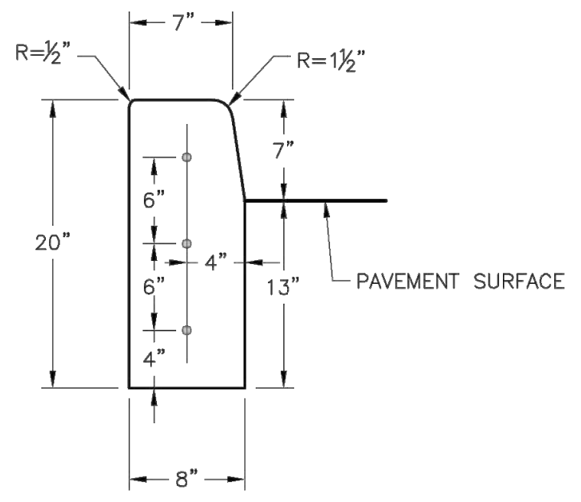
TYPICAL MEDIAN NOSE CENTER LINE DETAIL

PAVEMENT MARKING GENERAL NOTES:
1. All pavement markings shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
2. All words and symbols shall conform to the latest edition of Standard Alphabets for Highway Signs and Pavement Markings printed by the U.S. Department of Transportation, Federal Highway Administration.
3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
7. Edge lines shall be marked on all non-curbed streets.

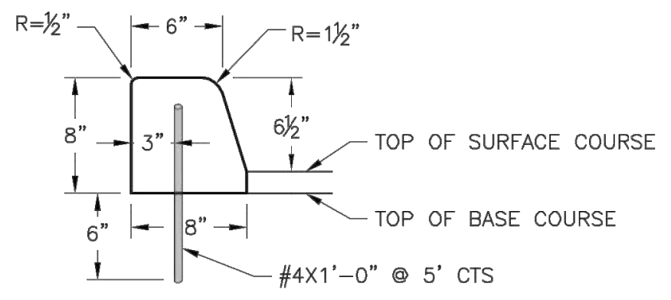
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

Project:
Sheet Name: ROADWAY MARKING DETAILS
STANDARD DRAWING PM-1

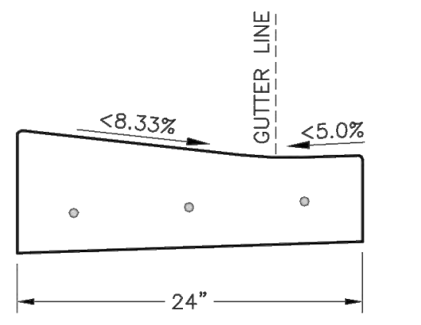
Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#
1 OF 2
1



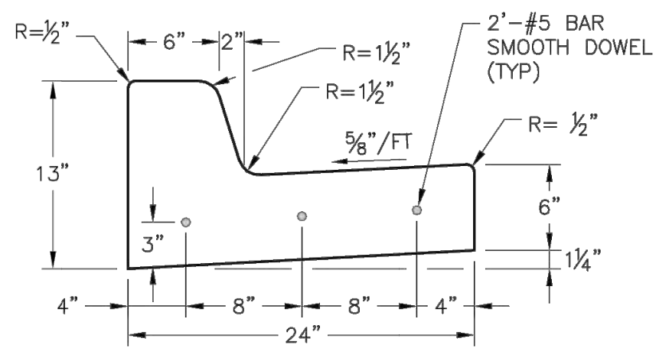
STRAIGHT CURB
(TYPE C-1)



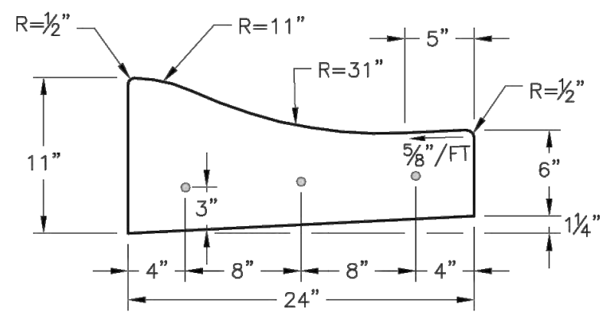
DOWELLED CURB
(TYPE DC)



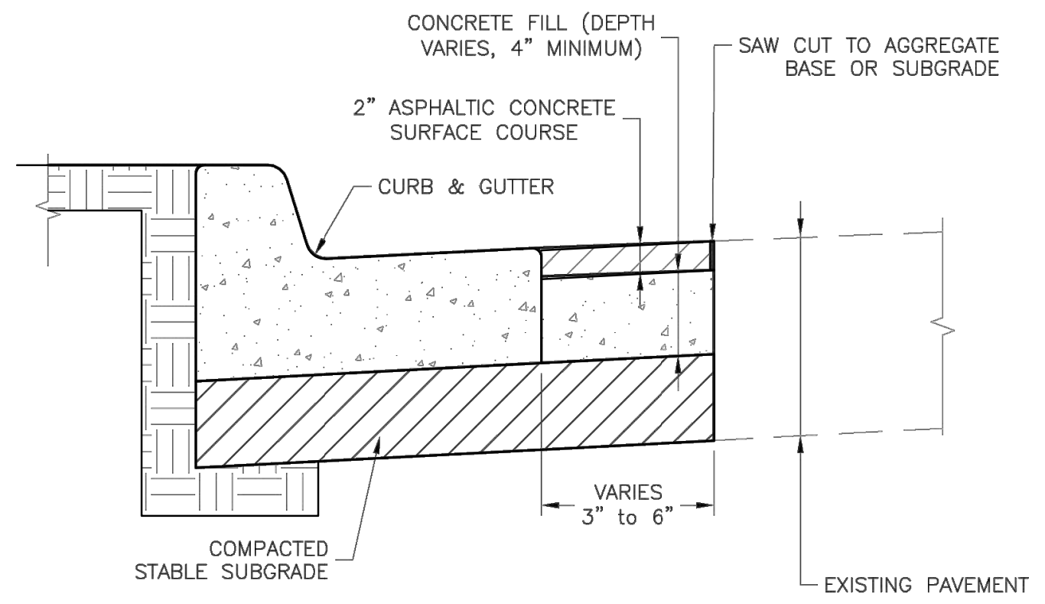
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



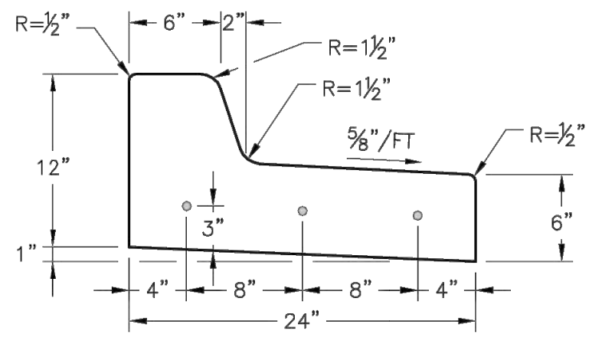
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



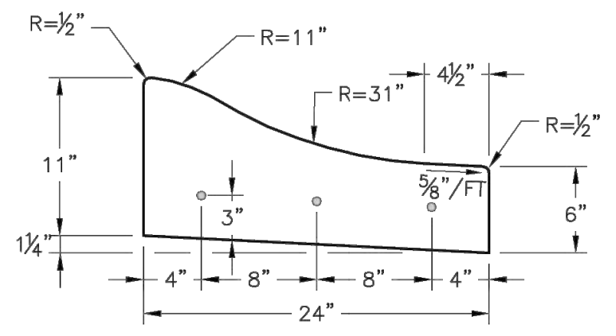
ROLL BACK CURB & GUTTER
(TYPE CG-2)


CONCRETE FILL (DEPTH VARIES, 4" MINIMUM)
SAW CUT TO AGGREGATE BASE OR SUBGRADE
2" ASPHALTIC CONCRETE SURFACE COURSE
CURB & GUTTER
VARIES 3" to 6"
COMPACTED STABLE SUBGRADE
EXISTING PAVEMENT

CURB REPLACEMENT DETAIL



STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER
(TYPE CG-2 DRY)

GENERAL NOTES
1. ¾" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LS LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CURB & GUTTER DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:
GEN-4

S&ME
1615 EDGEWATER DRIVE, STE 200.
ORLANDO, FLORIDA 32804
T 407.975.1273
F 407.975.1278
www.smeinc.com

George Huddleston, P.E. 2017035508
Edward Browder, PLA 2018001073

LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816.282.5000

LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING

LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON III
NUMBER PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C9.0

DRAWING NAME
CITY DETAILS

HEREFORD · DOOLEY
ARCHITECTS

1720 WEST END AVE | SUITE 300
NASHVILLE | TENNESSEE | 37203
P | 615 | 244 | 7399
F | 615 | 244 | 6697
WWW.HDARCHITECTS.COM

LICENSE NUMBER: 123456789101112

PROJECT # 217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

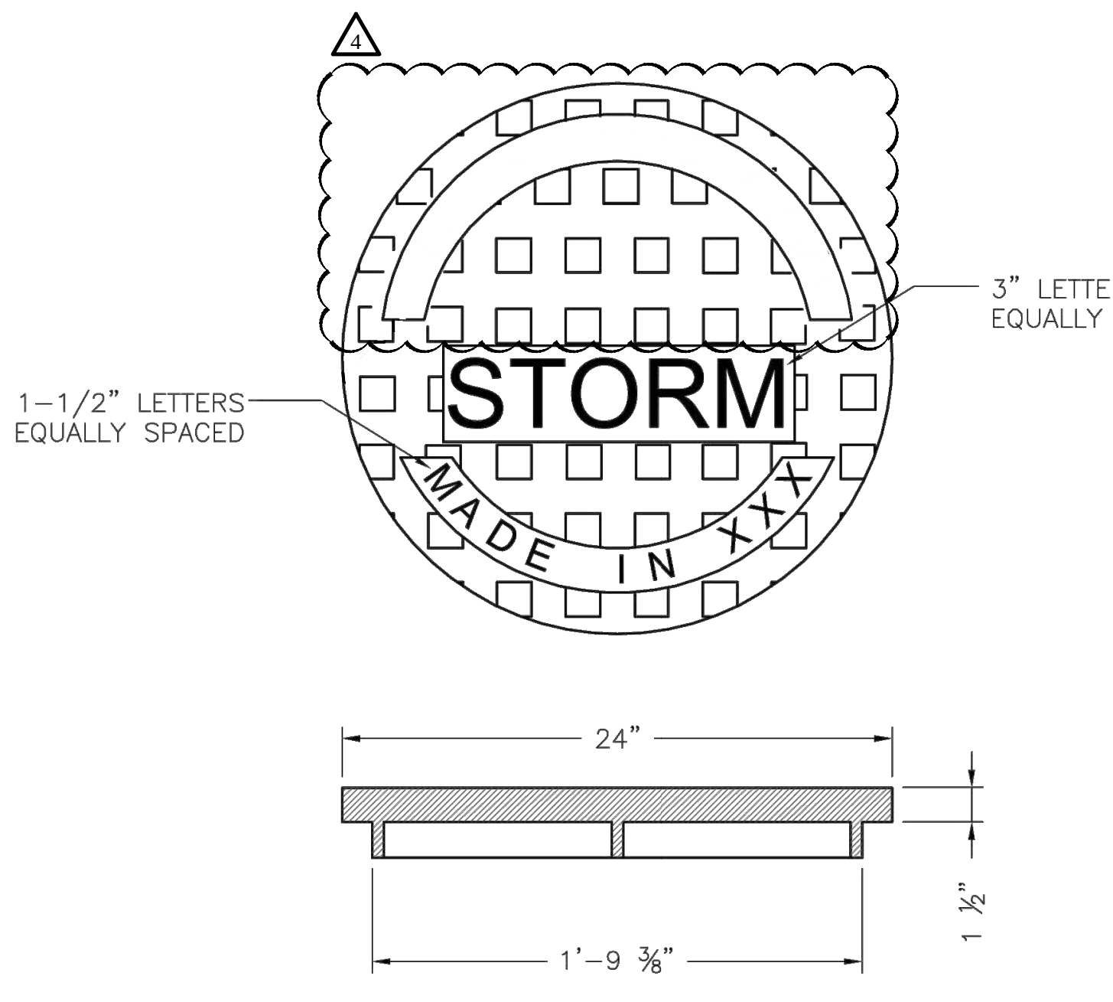
Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019
△

TITLE
CITY DETAILS

SHEET
C9.0



STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

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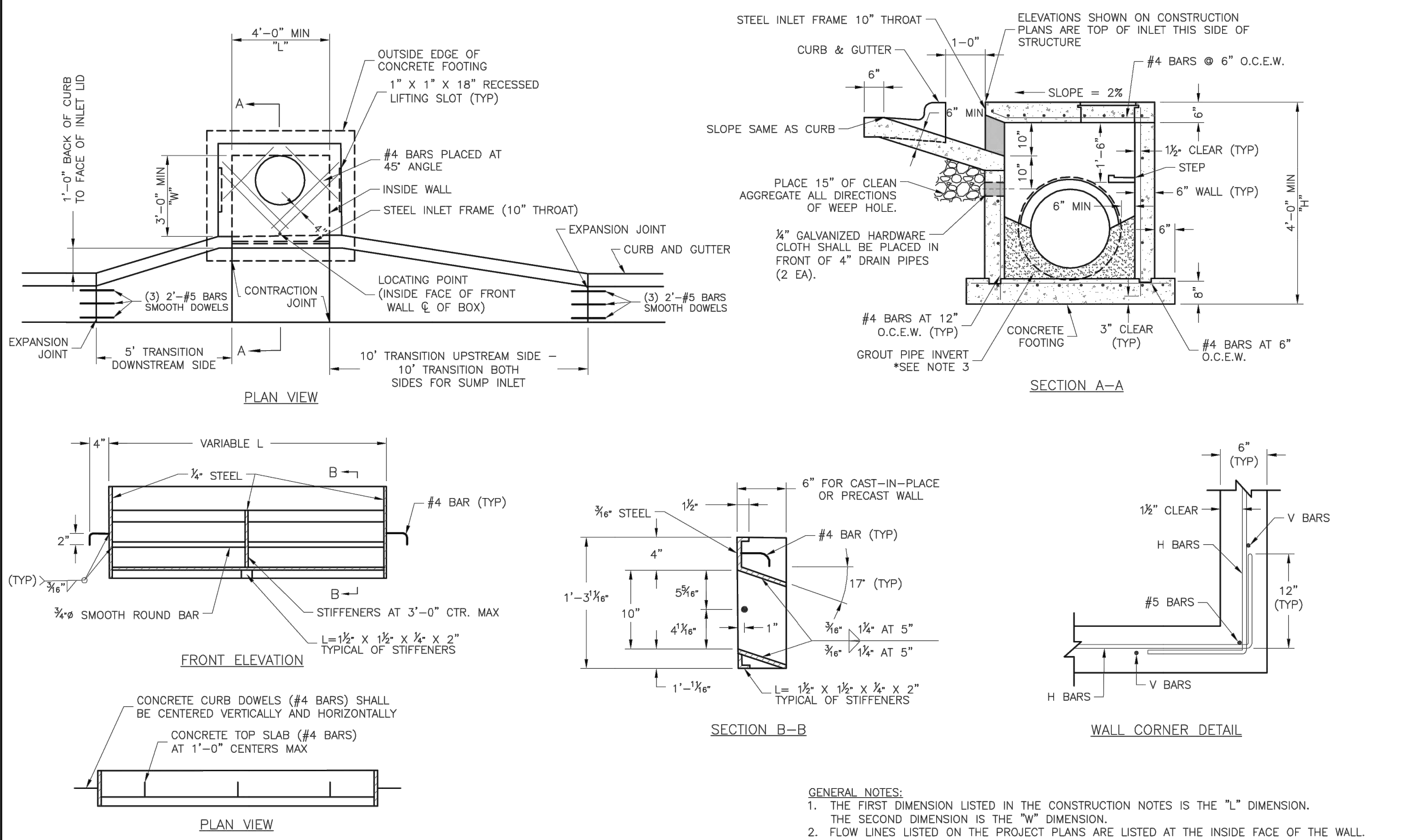
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE COVER DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-6


4'-0" MIN "L"
OUTSIDE EDGE OF CONCRETE FOOTING
1" X 1" X 18" RECESSED LIFTING SLOT (TYP)
1'-0" BACK OF CURB TO FACE OF INLET LID
3'-0" MIN "W"
#4 BARS PLACED AT 45° ANGLE
INSIDE WALL
STEEL INLET FRAME (10" THROAT)
EXPANSION JOINT
CURB AND GUTTER
(3) 2'-#5 BARS SMOOTH DOWELS
CONTRACTION JOINT
LOCATING POINT (INSIDE FACE OF FRONT WALL ℄ OF BOX)
EXPANSION JOINT
5' TRANSITION DOWNSTREAM SIDE
10' TRANSITION UPSTREAM SIDE – 10' TRANSITION BOTH SIDES FOR SUMP INLET
PLAN VIEW
STEEL INLET FRAME 10" THROAT
CURB & GUTTER
1-0"
ELEVATIONS SHOWN ON CONSTRUCTION PLANS ARE TOP OF INLET THIS SIDE OF STRUCTURE
#4 BARS @ 6" O.C.E.W.
SLOPE = 2%
SLOPE SAME AS CURB
6" MIN
1½" CLEAR (TYP)
STEP
6" WALL (TYP)
PLACE 15" OF CLEAN AGGREGATE ALL DIRECTIONS OF WEEP HOLE.
¼" GALVANIZED HARDWARE CLOTH SHALL BE PLACED IN FRONT OF 4" DRAIN PIPES (2 EA).
4'-0" MIN "H"
#4 BARS AT 12" O.C.E.W. (TYP)
CONCRETE FOOTING
3" CLEAR (TYP)
#4 BARS AT 6" O.C.E.W.
GROUT PIPE INVERT *SEE NOTE 3
SECTION A–A
VARIABLE L
¼" STEEL
#4 BAR (TYP)
¾"ø SMOOTH ROUND BAR
STIFFENERS AT 3'-0" CTR. MAX
L=1½" X 1½" X ¼" X 2" TYPICAL OF STIFFENERS
FRONT ELEVATION
6" FOR CAST-IN-PLACE OR PRECAST WALL
3/16" STEEL
17° (TYP)
1¼" AT 5"
1'-3 11/16"
1'-1 1/16"
SECTION B–B
1½" CLEAR
V BARS
H BARS
#5 BARS
12" (TYP)
WALL CORNER DETAIL
CONCRETE CURB DOWELS (#4 BARS) SHALL BE CENTERED VERTICALLY AND HORIZONTALLY
CONCRETE TOP SLAB (#4 BARS) AT 1'-0" CENTERS MAX
PLAN VIEW

STEEL FRAME NOTES:
1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM-PRIME #37H-78 PRIMER (GRAY) OR EQUAL.

GENERAL NOTES:
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
5. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
6. BEVEL ALL EXPOSED EDGES WITH ¾"CHAMFER OR ½" TOOLED EDGE.
7. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CURB INLET DETAIL

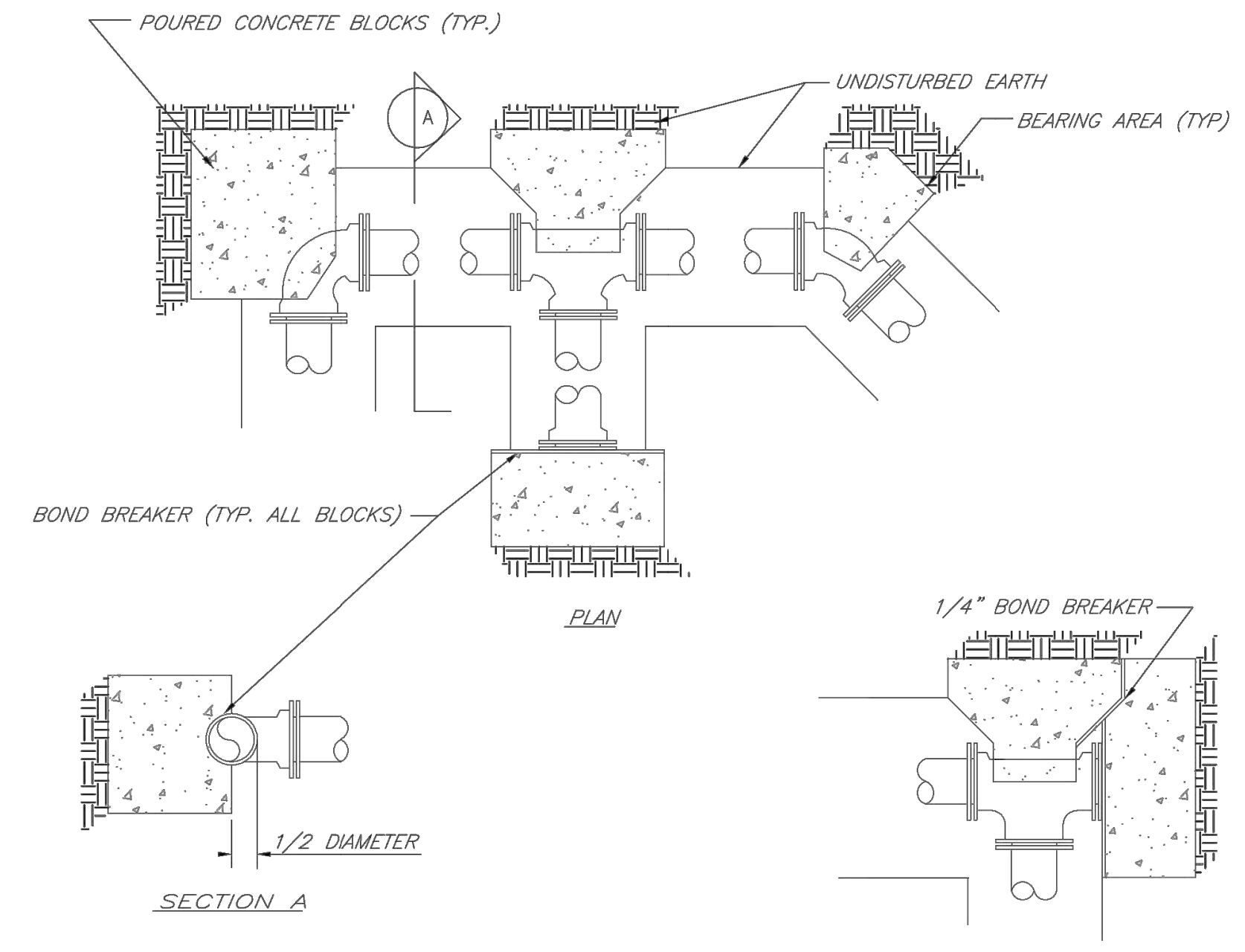
Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-1

REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



LEE'S SUMMIT
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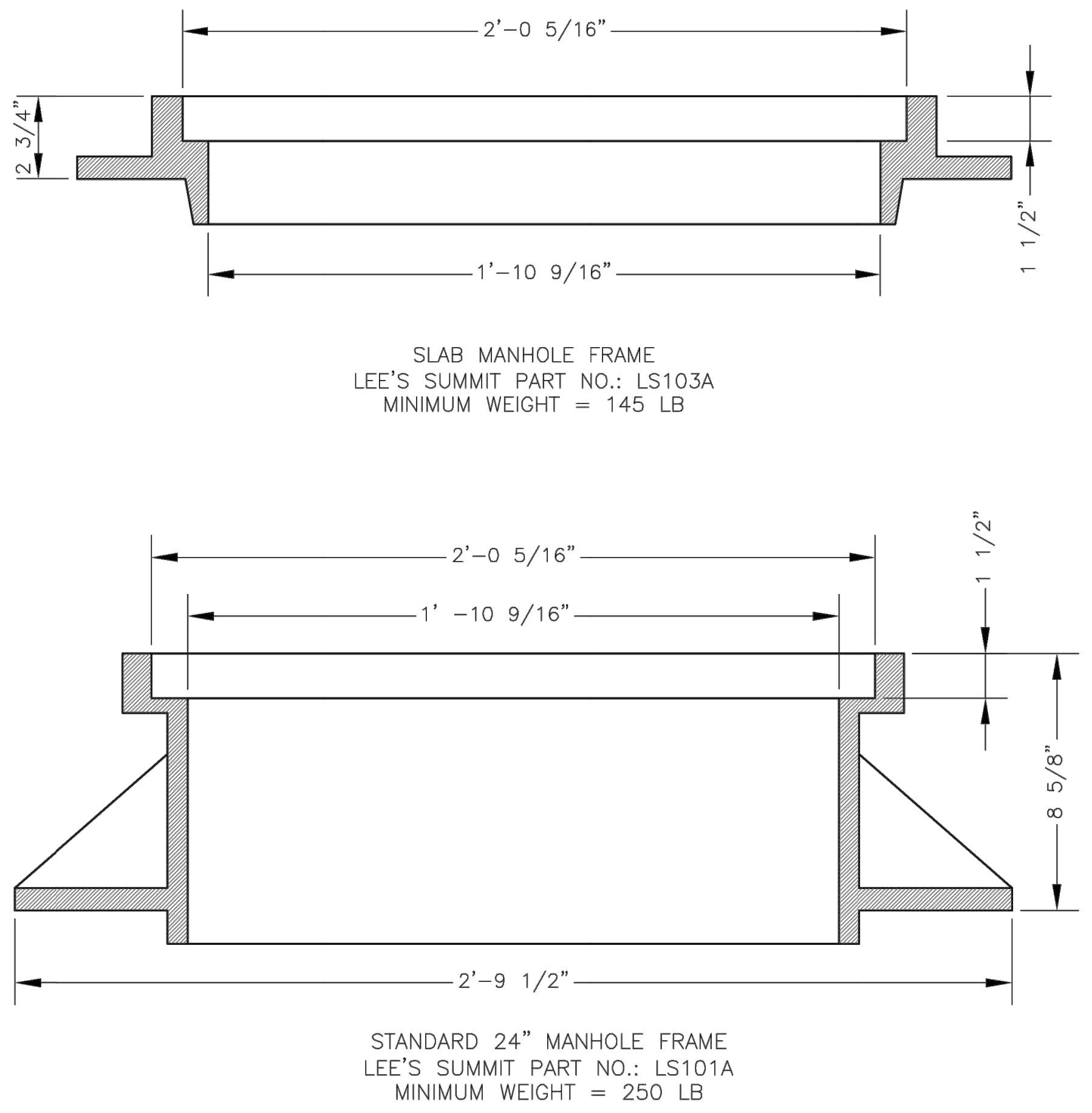
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HORIZONTAL THRUST BLOCKS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-1
Rev: 1/14
Rev:



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB

STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

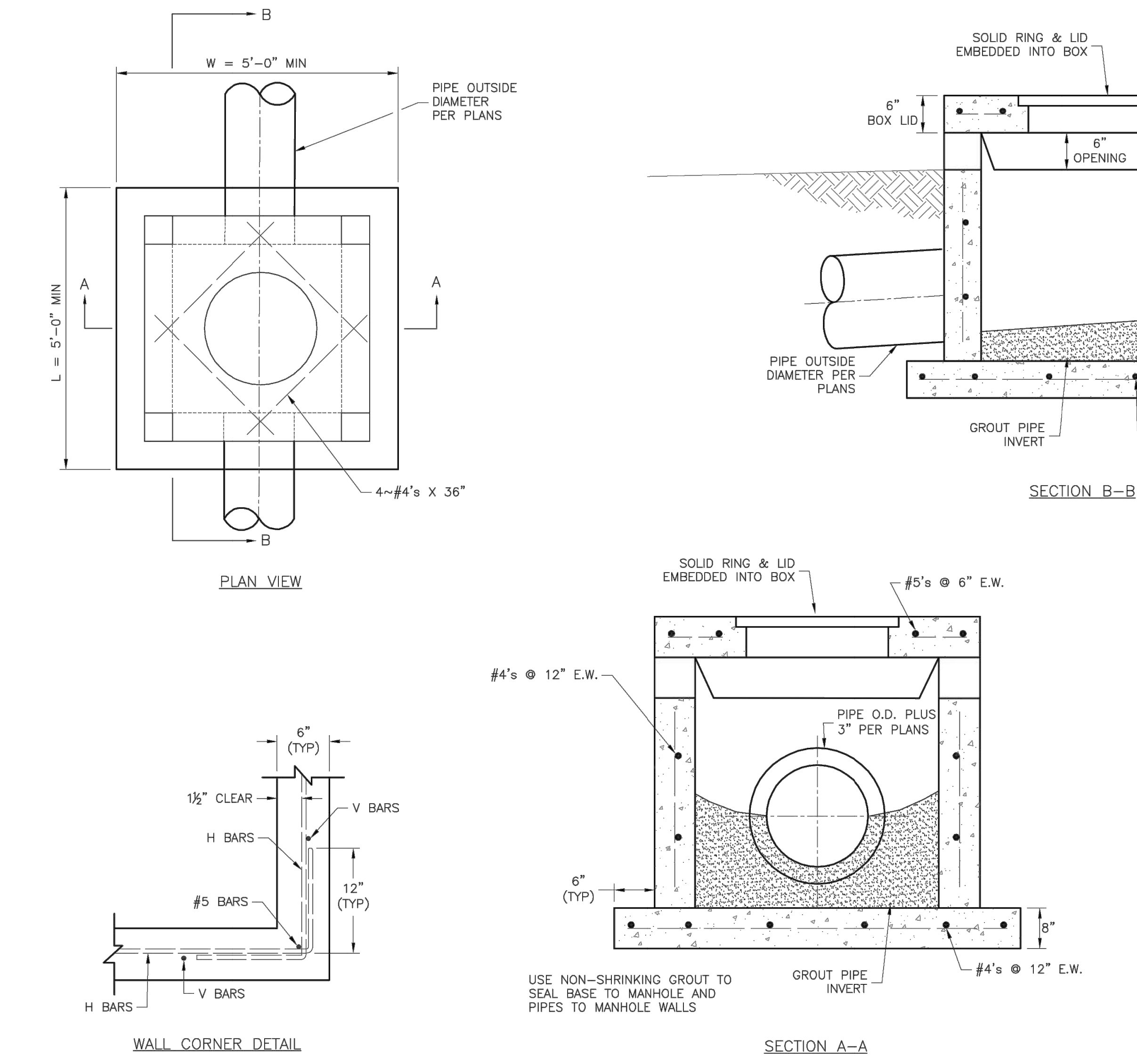
*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE FRAME DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-7



GENERAL NOTES:

1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE ¾" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

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MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: FIELD INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-2

1615 EDGEWATER DRIVE, STE 200.
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Edward Browder, PLA 2018001073

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816.282.5000

LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING
LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON, III
NUMBER PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
C9.1

DRAWING NAME
CITY DETAILS

HEREFORD · DOOLEY
ARCHITECTS

1720 WEST END AVE ā SUITE 300
NASHVILLE ā TENNESSEE ā 37203
P ā 615 ā 244 ā 7399
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WWW.HDARCHITECTS.COM

LICENSE NUMBER: 123456789101112

PROJECT # 217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

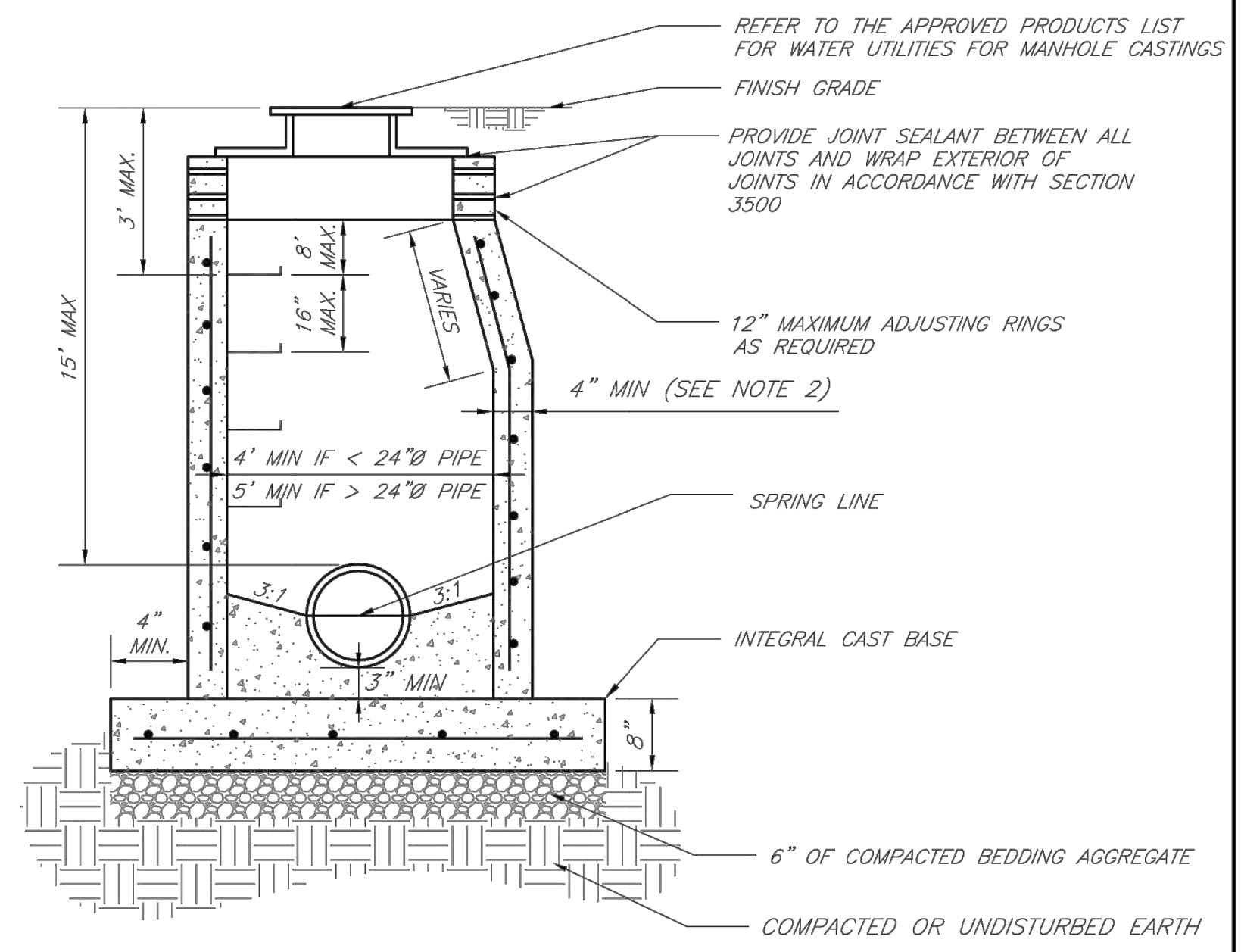
STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019
△

TITLE
CITY DETAILS

SHEET
C9.1

C:_Revit Local\217026.00_Lee's Summit MOB_07.13.17_LOCAL_2016_nicole.hermo@hdarchitects.com.rvt
7/25/2017 11:03:59 AM


REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE CASTINGS
FINISH GRADE
PROVIDE JOINT SEALANT BETWEEN ALL JOINTS AND WRAP EXTERIOR OF JOINTS IN ACCORDANCE WITH SECTION 3500
15' MAX
3' MAX.
8' MAX.
16" MAX.
VARIES
12" MAXIMUM ADJUSTING RINGS AS REQUIRED
4" MIN (SEE NOTE 2)
4' MIN IF < 24"Ø PIPE
5' MIN IF > 24"Ø PIPE
SPRING LINE
3:1
3:1
4" MIN.
3" MIN
INTEGRAL CAST BASE
8"
6" OF COMPACTED BEDDING AGGREGATE
COMPACTED OR UNDISTURBED EARTH

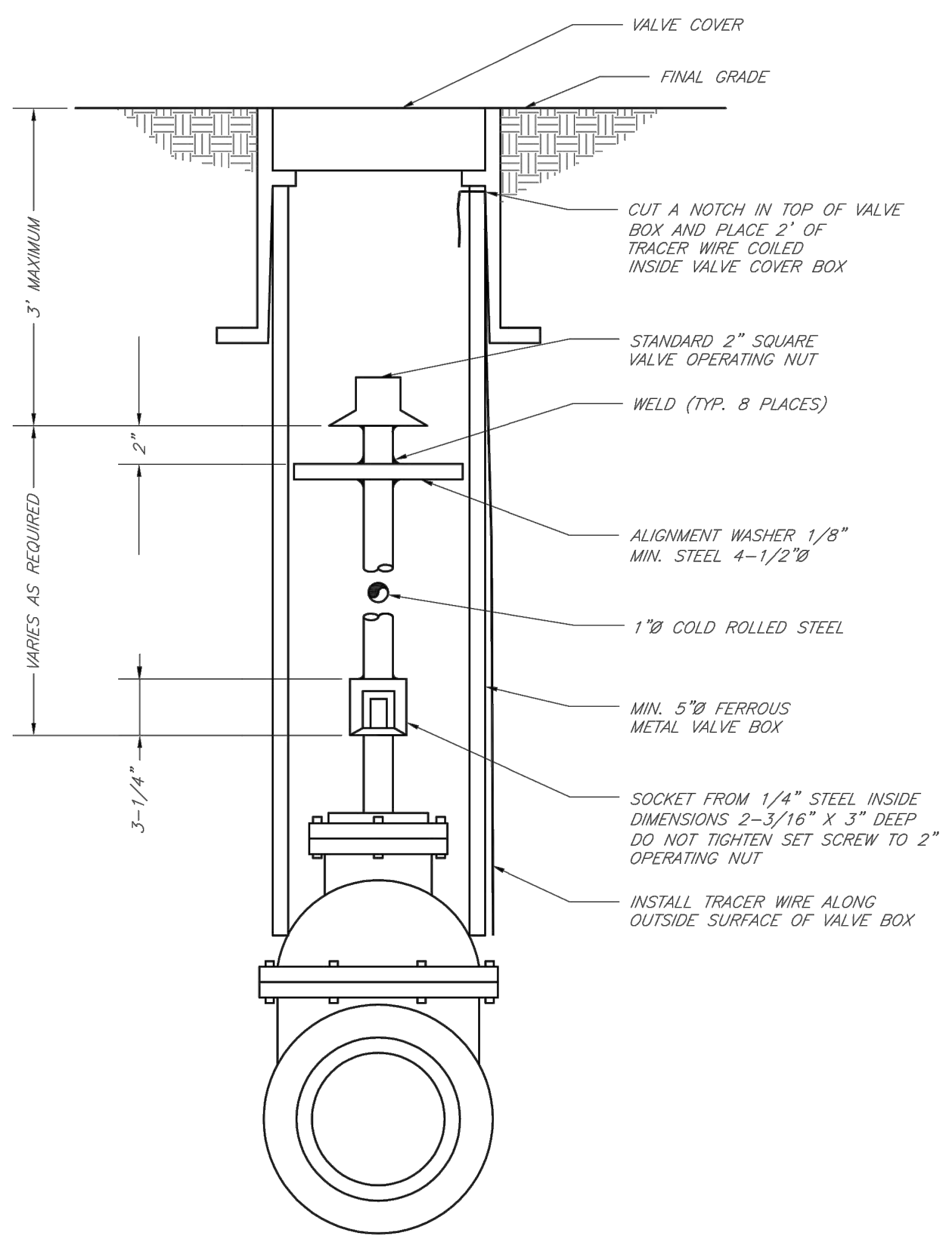
NOTES:

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THEN 15'.
3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

LS
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD PRECAST MANHOLE – SANITARY SEWER

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-2
Rev: 1/14
Rev:


VALVE COVER
FINAL GRADE
3' MAXIMUM
CUT A NOTCH IN TOP OF VALVE BOX AND PLACE 2' OF TRACER WIRE COILED INSIDE VALVE COVER BOX
STANDARD 2" SQUARE VALVE OPERATING NUT
WELD (TYP. 8 PLACES)
2"
VARIES AS REQUIRED
ALIGNMENT WASHER 1/8" MIN. STEEL 4-1/2"Ø
1"Ø COLD ROLLED STEEL
MIN. 5"Ø FERROUS METAL VALVE BOX
3-1/4"
SOCKET FROM 1/4" STEEL INSIDE DIMENSIONS 2-3/16" X 3" DEEP DO NOT TIGHTEN SET SCREW TO 2" OPERATING NUT
INSTALL TRACER WIRE ALONG OUTSIDE SURFACE OF VALVE BOX

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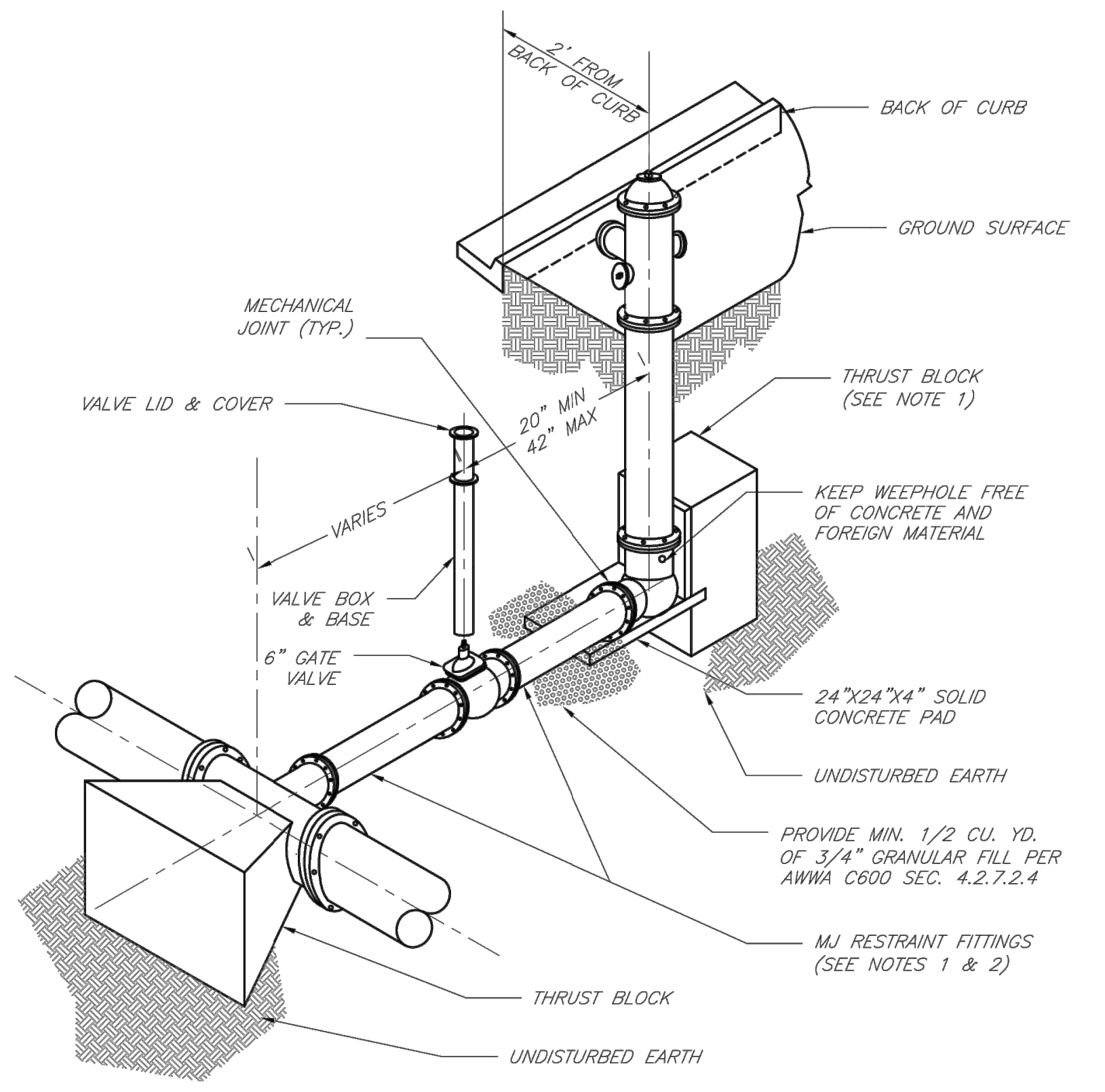
VALVE STEM EXTENSION AND VALVE BOX

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-9
Rev: 1/14
Rev:


2' FROM BACK OF CURB
BACK OF CURB
GROUND SURFACE
MECHANICAL JOINT (TYP.)
VALVE LID & COVER
20" MIN 42" MAX
THRUST BLOCK (SEE NOTE 1)
VARIES
KEEP WEEPHOLE FREE OF CONCRETE AND FOREIGN MATERIAL
VALVE BOX & BASE
6" GATE VALVE
24"X24"X4" SOLID CONCRETE PAD
UNDISTURBED EARTH
PROVIDE MIN. 1/2 CU. YD. OF 3/4" GRANULAR FILL PER AWWA C600 SEC. 4.2.7.2.4
MJ RESTRAINT FITTINGS (SEE NOTES 1 & 2)
THRUST BLOCK
UNDISTURBED EARTH

NOTES:

1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

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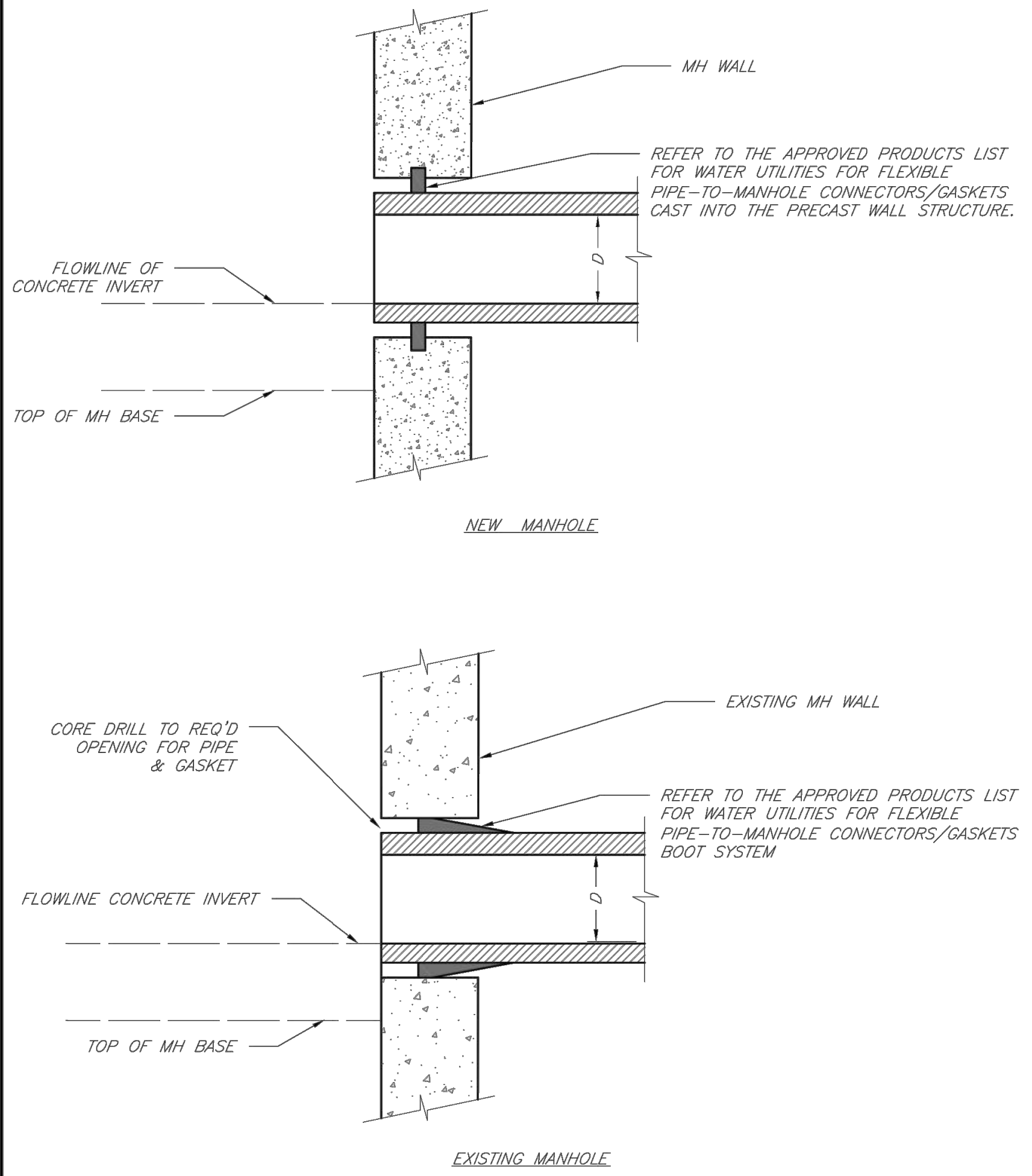
HYDRANT INSTALLATION – STRAIGHT SET

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-7
Rev: 1/14
Rev:


MH WALL
REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FLEXIBLE PIPE-TO-MANHOLE CONNECTORS/GASKETS CAST INTO THE PRECAST WALL STRUCTURE.
FLOWLINE OF CONCRETE INVERT
D
TOP OF MH BASE
NEW MANHOLE
EXISTING MH WALL
CORE DRILL TO REQ'D OPENING FOR PIPE & GASKET
REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FLEXIBLE PIPE-TO-MANHOLE CONNECTORS/GASKETS BOOT SYSTEM
FLOWLINE CONCRETE INVERT
D
TOP OF MH BASE
EXISTING MANHOLE

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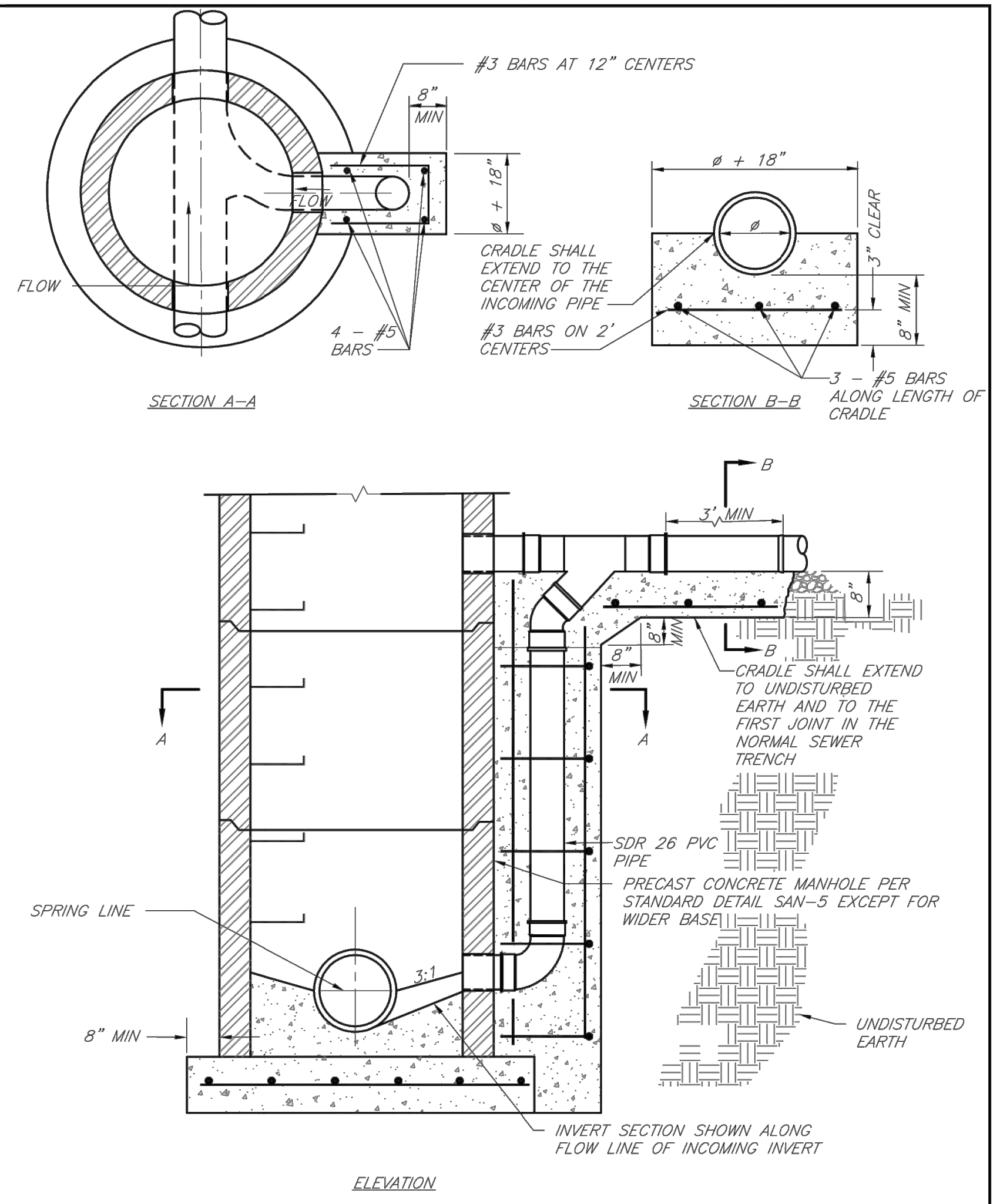
MANHOLE WALL CONNECTIONS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-5
Rev: 1/14
Rev:


#3 BARS AT 12" CENTERS
8" MIN
ø + 18"
FLOW
FLOW
4 - #5 BARS
CRADLE SHALL EXTEND TO THE CENTER OF THE INCOMING PIPE
#3 BARS ON 2' CENTERS
ø + 18"
ø
3" CLEAR
8" MIN
3 - #5 BARS ALONG LENGTH OF CRADLE
SECTION A-A
SECTION B-B
B
3' MIN
8"
8" MIN
8" MIN
B
CRADLE SHALL EXTEND TO UNDISTURBED EARTH AND TO THE FIRST JOINT IN THE NORMAL SEWER TRENCH
A
A
SDR 26 PVC PIPE
PRECAST CONCRETE MANHOLE PER STANDARD DETAIL SAN-5 EXCEPT FOR WIDER BASE
SPRING LINE
3:1
8" MIN
UNDISTURBED EARTH
INVERT SECTION SHOWN ALONG FLOW LINE OF INCOMING INVERT
ELEVATION

NOTE:
REFER TO DRAWING SAN-2 FOR MANHOLE DETAILS NOT SHOWN.

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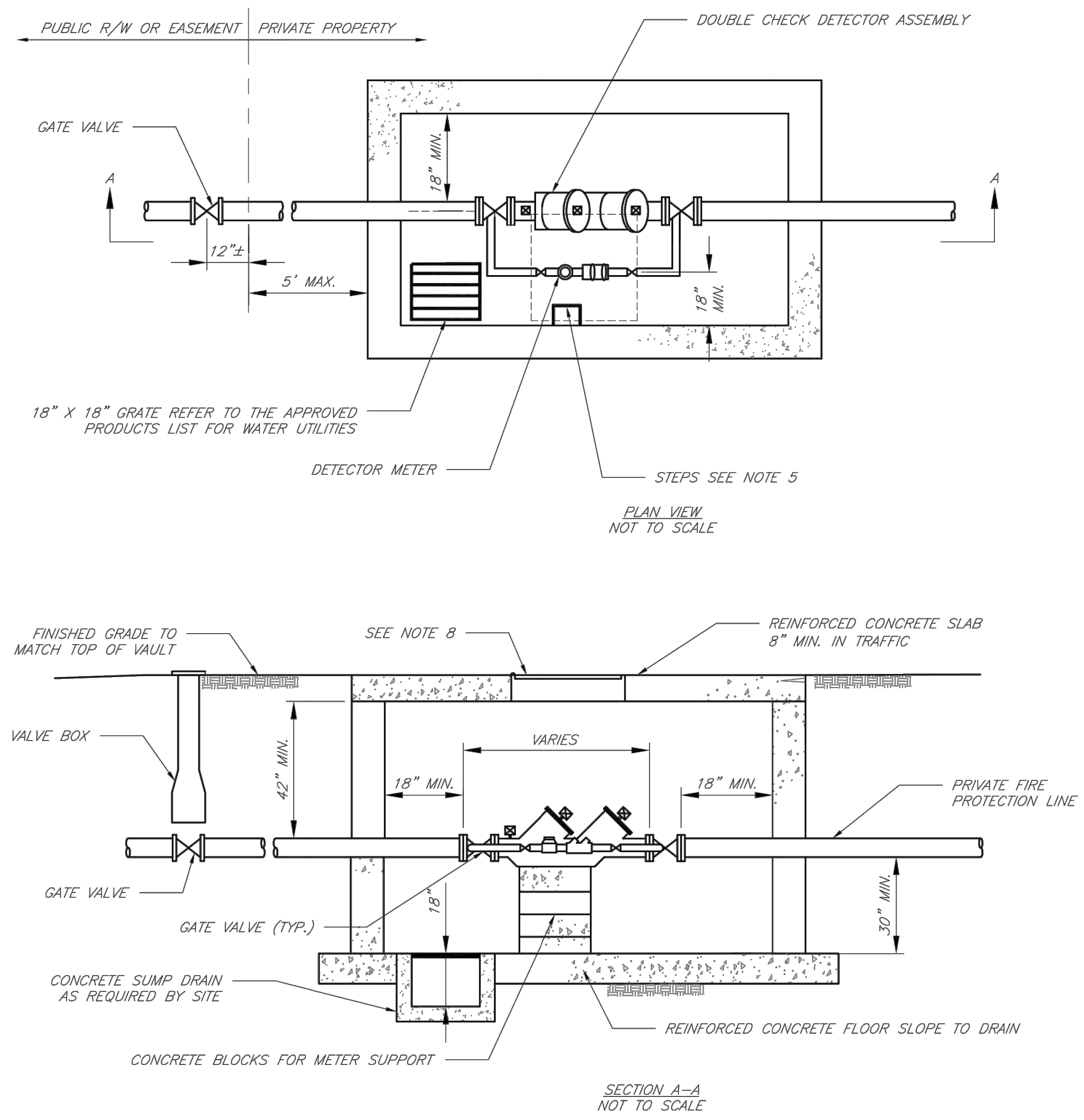
DROP SANITARY SEWER MANHOLE

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-4
Rev: 1/14
Rev:


PUBLIC R/W OR EASEMENT
PRIVATE PROPERTY
DOUBLE CHECK DETECTOR ASSEMBLY
GATE VALVE
A
A
18" MIN.
12"±
5' MAX.
18" MIN.
18" X 18" GRATE REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES
DETECTOR METER
STEPS SEE NOTE 5
PLAN VIEW
NOT TO SCALE
FINISHED GRADE TO MATCH TOP OF VAULT
SEE NOTE 8
REINFORCED CONCRETE SLAB 8" MIN. IN TRAFFIC
VALVE BOX
42" MIN.
VARIES
18" MIN.
18" MIN.
PRIVATE FIRE PROTECTION LINE
GATE VALVE
18"
30" MIN.
GATE VALVE (TYP.)
CONCRETE SUMP DRAIN AS REQUIRED BY SITE
REINFORCED CONCRETE FLOOR SLOPE TO DRAIN
CONCRETE BLOCKS FOR METER SUPPORT
SECTION A-A
NOT TO SCALE

GENERAL NOTES:

1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE. METER VAULT ROOF TO BE REINFORCED CONCRETE WITH OPENING CENTERED OVER DETECTOR METER. REINFORCED WALLS AND SLABS ARE TO BE DESIGNED BY THE OWNER'S ENGINEER OR PRECAST ENGINEER.
2. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA AND WHERE SURFACE WATER WILL NOT DRAIN INTO IT. PROVIDE CONCRETE SUMP TO DRAIN TO AN ABOVE GROUND DISCHARGE POINT.
3. ALL PIPE AND FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
4. ALL FITTINGS FOR THE DETECTOR METER TO BE BRASS.
5. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
6. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT WATER UTILITIES AT 816-969-1900.
7. ALL VALVES SHALL HAVE RISING STEMS.
8. MANHOLE COVER SHALL BE A BILCO K-1 MODEL UNLESS IN A VEHICLE TRAFFIC AREA. SEE THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR TRAFFIC CONDITIONS. THE COVER SHALL HAVE A 1-3/4" ø HOLE DRILLED FOR A TOUCH/READ DEVICE.
9. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
10. CONTACT PUBLIC WORKS ENGINEERING FOR VAULTS THAT INCLUDE A FIRE DEPARTMENT CONNECTION OR A 3" OR LARGER METER.

CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
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LEE'S SUMMIT, MO 64063

Project: STANDARD DRAWINGS
Sheet Name: VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: .AS
Checked By: .DL
Date: 1/14
Rev: 1/14
OF
WAT-12

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LEE'S SUMMIT, MISSOURI

GEORGE B. HUDDLESTON, III
NUMBER
PE-2017035508
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
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PROJECT NUMBER
527116043

DRAWING NUMBER
C9.2

DRAWING NAME
CITY DETAILS

HEREFORD · DOOLEY
ARCHITECTS

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NASHVILLE ā TENNESSEE ā 37203
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LICENSE NUMBER: 123456789101112

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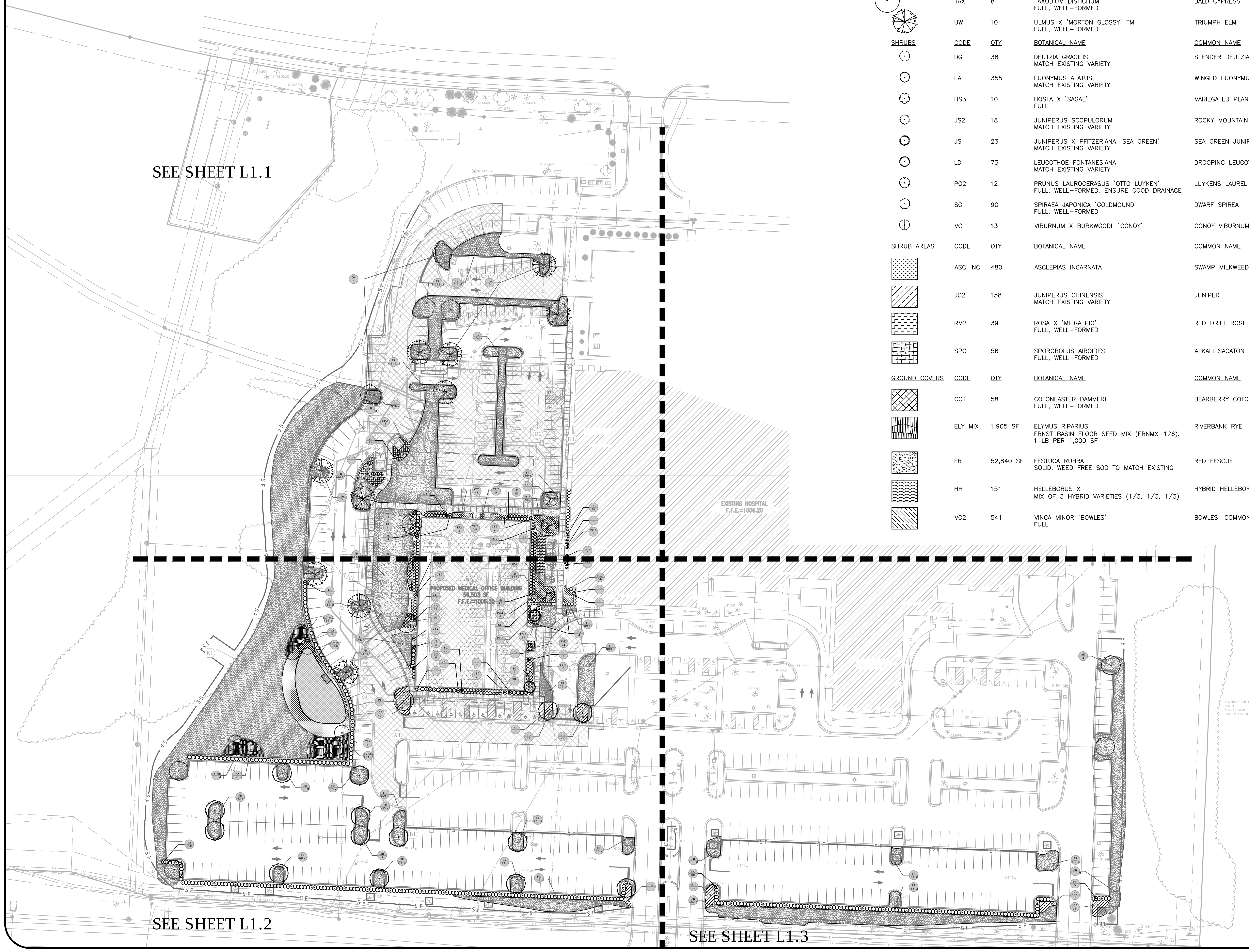


PLANT SCHEDULE M.O.B.

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	CALIPER	SIZE
○	AR	18	ACER RUBRUM FULL, WELL–FORMED	RED MAPLE	B&B	4" CAL.	10'–12' HT
○	CG	3	CORNUS KOUSA CHINENSIS 'GREENSLEEVES' FULL, WELL–FORMED	KOUSA DOGWOOD	B&B	3" CAL.	8'–10' HT.
○	PT	3	PRUNUS SERRULA 'KWANZAN' FULL, WELL–FORMED	JAPANESE CHERRY	B&B	3" CAL.	8'–10' HT.
○	PRU	2	PRUNUS SUBHIRTELLA 'PENDULA FLORA PLENA' FULL, WELL–FORMED	DWARF DOUBLE WEEPING CHERRY	B&B	3" CAL.	6'–8' HT.
○	QA	4	QUERCUS ALBA FULL, WELL–FORMED	WHITE OAK	B&B	4" CAL.	10'–12' HT
○	TAX	8	TAXODIUM DISTICHUM FULL, WELL–FORMED	BALD CYPRESS	---	2" CAL.	6'–8' HT.
○	UW	10	ULMUS X 'MORTON GLOSSY' TM FULL, WELL–FORMED	TRIUMPH ELM	B&B	4" CAL.	10'–12' HT

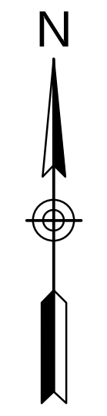
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE
⊙	DG	38	DEUTZIA GRACILIS MATCH EXISTING VARIETY	SLENDER DEUTZIA	3 GAL.	18"–24"
⊙	EA	355	EUONYMUS ALATUS MATCH EXISTING VARIETY	WINGED EUONYMUS	3 GAL.	18"–24"
⊙	HS3	10	HOSTA X 'SAGAE' FULL	VARIEGATED PLANTAIN LILY	3 GAL.	10–12' MIN
⊙	JS2	18	JUNIPERUS SCOPULORUM MATCH EXISTING VARIETY	ROCKY MOUNTAIN JUNIPER	15 GAL.	30"–36" OA
⊙	JS	23	JUNIPERUS X PFITZERIANA 'SEA GREEN' MATCH EXISTING VARIETY	SEA GREEN JUNIPER	3 GAL.	18" HT MIN
⊙	LD	73	LEUCOTHOE FONTANESIANA MATCH EXISTING VARIETY	DROOPING LEUCOTHOE	3 GAL.	18" HT MIN
⊙	PO2	12	PRUNUS LAUROCERASUS 'OTTO LUYKEN' FULL, WELL–FORMED. ENSURE GOOD DRAINAGE	LUYKENS LAUREL	7 GAL	30–36" W
⊙	SG	90	SPIRAEA JAPONICA 'GOLDMOUND' FULL, WELL–FORMED	DWARF SPIREA	3 GAL.	15"–18" OA
⊕	VC	13	VIBURNUM X BURKWOODII 'CONOY'	CONOY VIBURNUM	7 GAL	30"–36" OA

SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
▨	ASC INC	480	ASCLEPIAS INCARNATA	SWAMP MILKWEED	1 GAL.	6"–8", FULL	24" o.c.
▨	JC2	158	JUNIPERUS CHINENSIS MATCH EXISTING VARIETY	JUNIPER	3 GAL.	6"–8", FULL	36" o.c.
▨	RM2	39	ROSA X 'MEIGALPIO' FULL, WELL–FORMED	RED DRIFT ROSE	2 GAL	14" H MIN	30" o.c.
▨	SPO	56	SPOROBOLUS AIROIDES FULL, WELL–FORMED	ALKALI SACATON GRASS	3 GAL.	12"–18", OA	30" o.c.

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
▨	COT	58	COTONEASTER DAMMERI FULL, WELL–FORMED	BEARBERRY COTONEASTER	3 GAL		36" o.c.
▨	ELY MIX	1,905 SF	ELYMUS RIPARIUS ERNST BASIN FLOOR SEED MIX (ERNMX–126). 1 LB PER 1,000 SF	RIVERBANK RYE	SEED		
▨	FR	52,840 SF	FESTUCA RUBRA SOLID, WEED FREE SOD TO MATCH EXISTING	RED FESCUE	SOD		
▨	HH	151	HELLEBORUS X MIX OF 3 HYBRID VARIETIES (1/3, 1/3, 1/3)	HYBRID HELLEBORE / LENTON ROSE	1 GAL.	6"–8", FULL	18" o.c.
▨	VC2	541	VINCA MINOR 'BOWLES' FULL	BOWLES' COMMON PERIWINKLE	1 GAL.	6–8" RUNNERS	18" o.c.

NOTES

1. PARKING LOT SCREENING: 12 SHRUBS PER 40 LF REQUIRED. 882 LF LOT FRONTAGE = 265 SHRUBS REQUIRED. 265 SHRUBS PROVIDED



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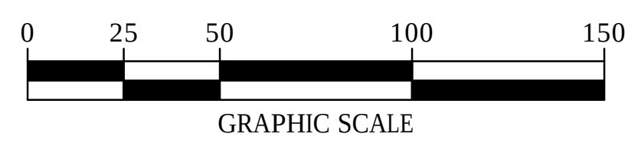

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PROJECT NUMBER
527116043

DRAWING NUMBER
L1.0

DRAWING NAME
OVERALL
LANDSCAPE PLAN

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TITLE: OVERALL LANDSCAPE PLAN

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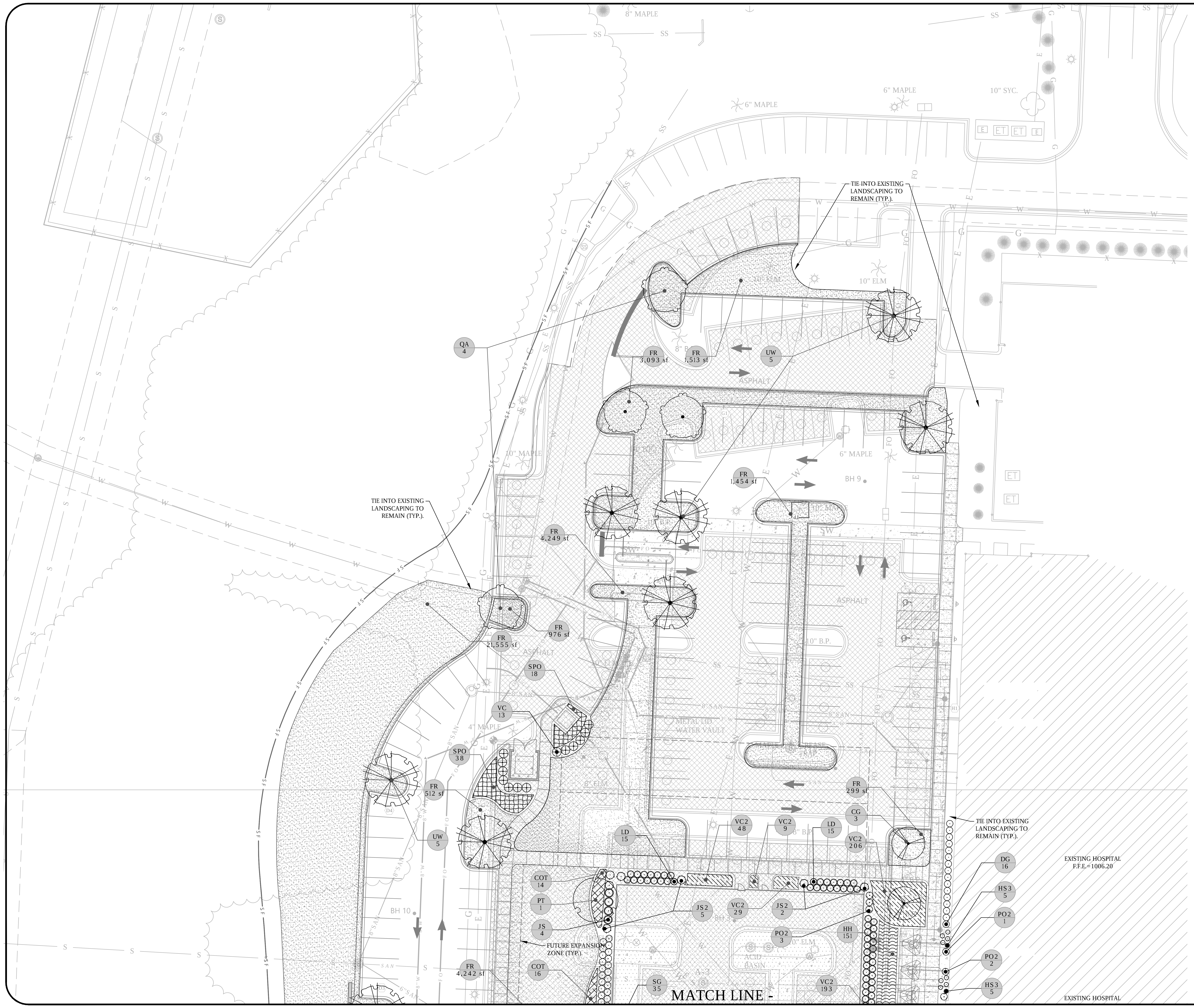


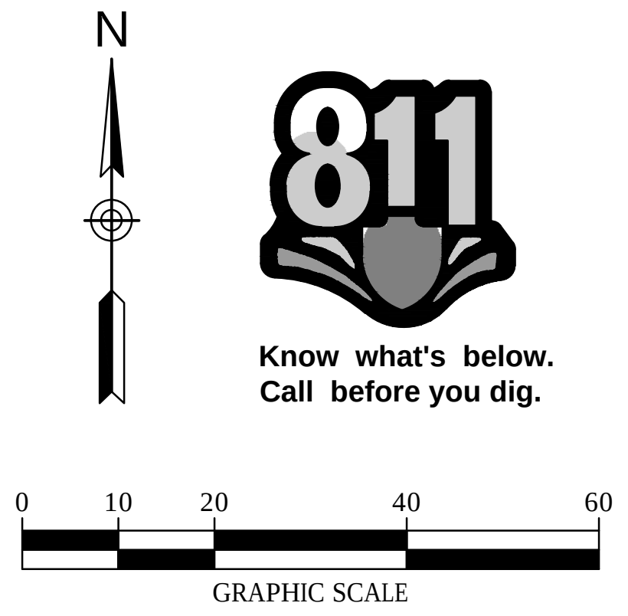
MATCH LINE -
SEE SHEET L1.2

PROPOSED FEATURES LEGEND

BUILDING	▨
CONCRETE PAVEMENT	▨
CONCRETE SIDEWALK	▨
HEAVY DUTY PAVEMENT	▩
LIGHT DUTY PAVEMENT	▨
PAINTED STRIPE	────
CONCRETE CURB	═══
CENTERLINE	── ‑ ── ‑ ──
SILT FENCE	──SF──
TREE PROTECTION	──T P──

NOTES

1. SEE SHEET L2.0 FOR LANDSCAPE NOTES.



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DRAWING NUMBER
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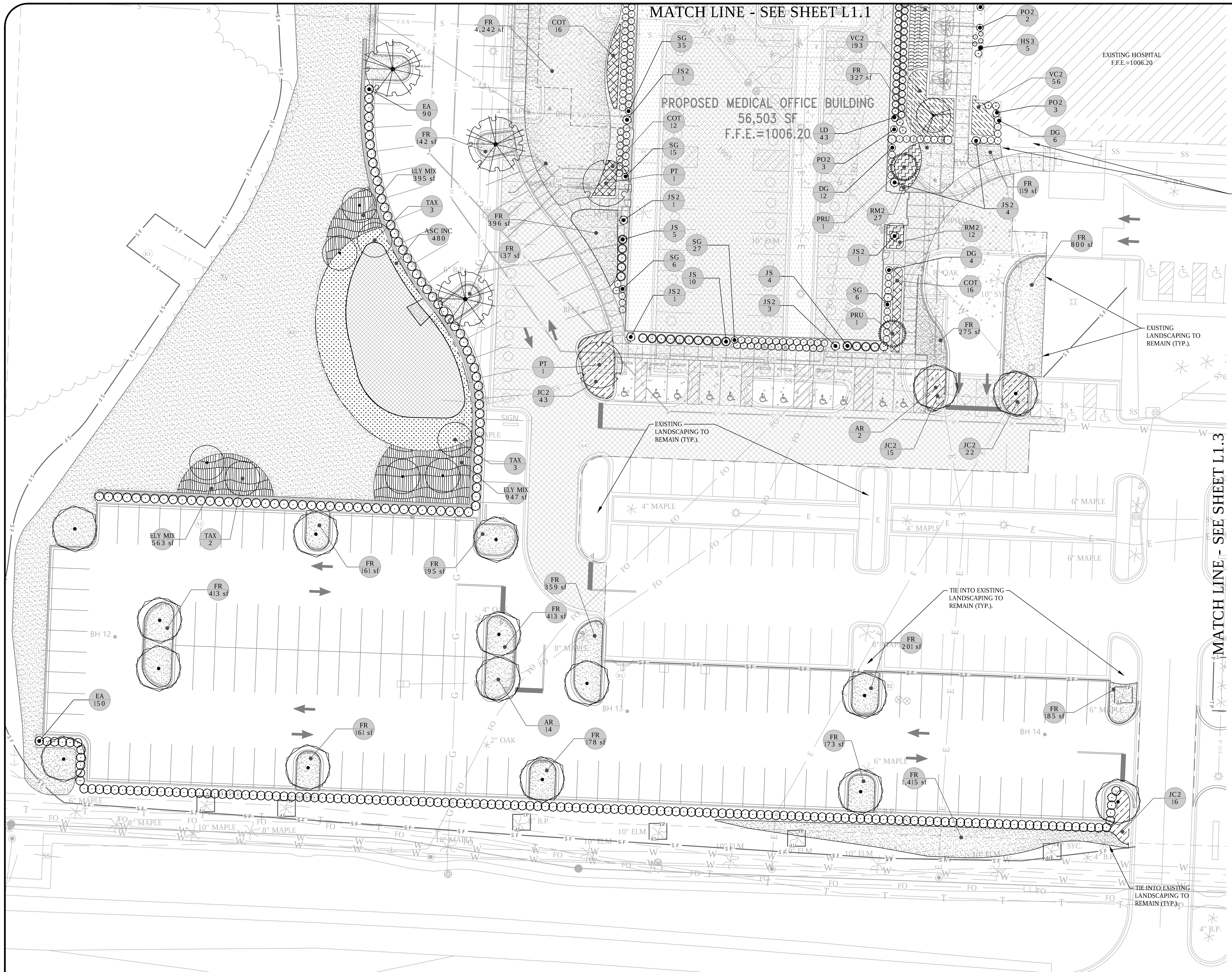

PROPOSED FEATURES LEGEND

BUILDING	▨
CONCRETE PAVEMENT	▨
CONCRETE SIDEWALK	▨
HEAVY DUTY PAVEMENT	■
LIGHT DUTY PAVEMENT	▨
PAINTED STRIPE	———
CONCRETE CURB	═══
CENTERLINE	—— - —— - ——
SILT FENCE	——SF——
TREE PROTECTION	——T P——

NOTES

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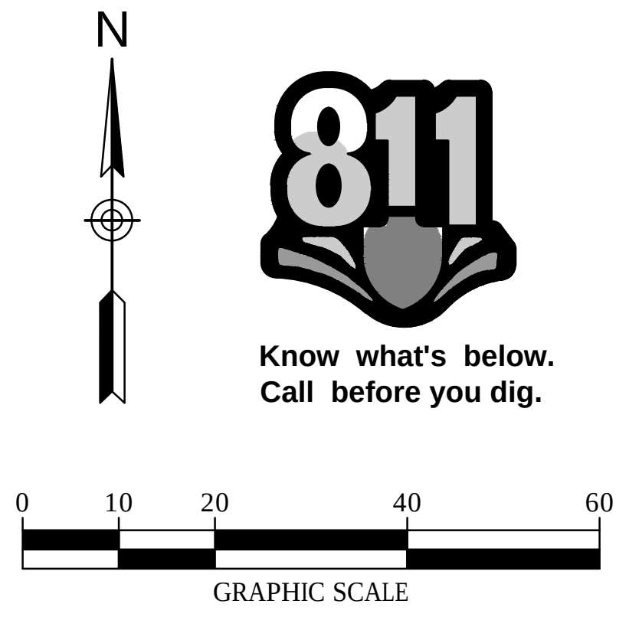

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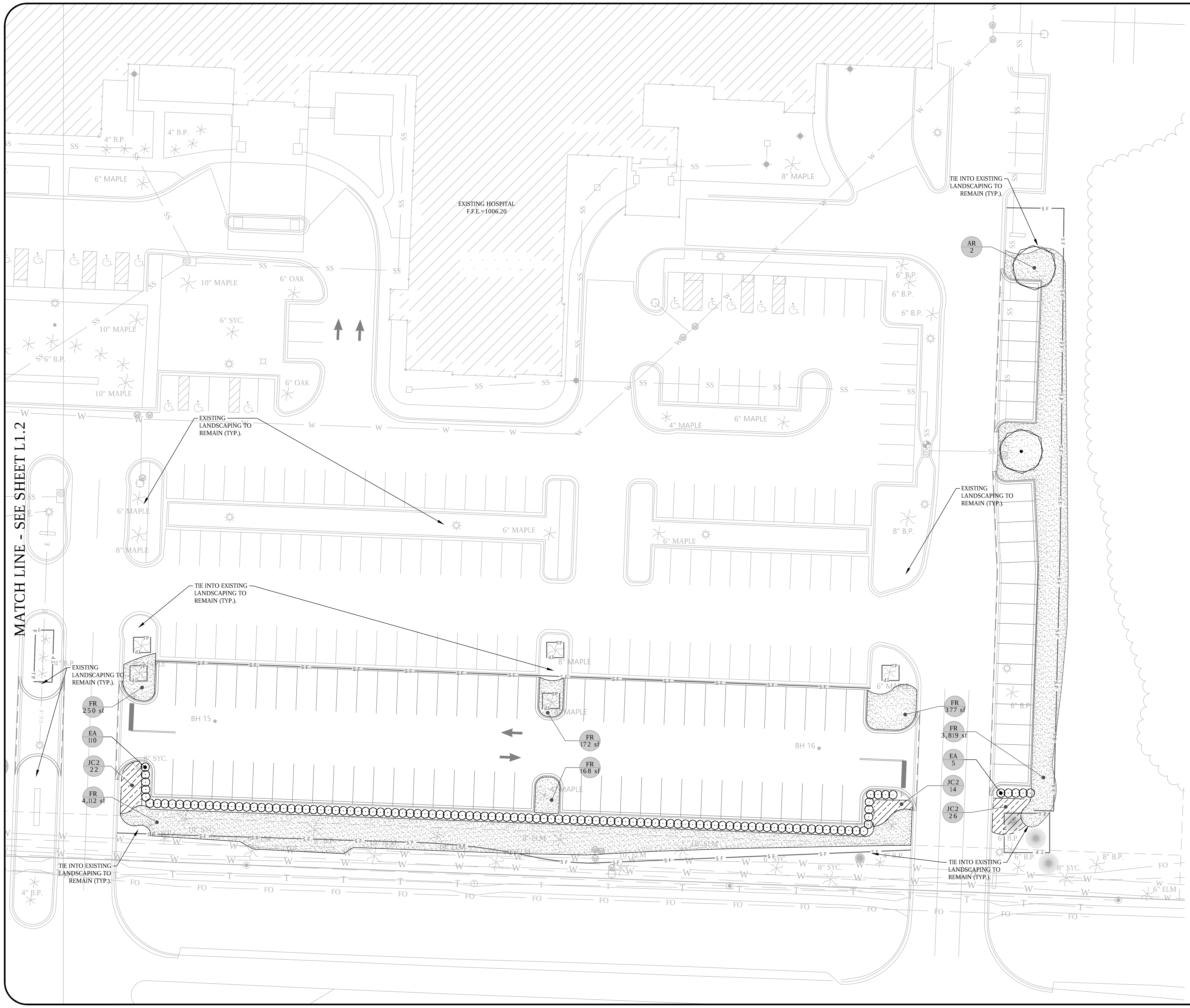

PROPOSED FEATURES LEGEND

BUILDING	▨
CONCRETE PAVEMENT	▨
CONCRETE SIDEWALK	▨
HEAVY DUTY PAVEMENT	▨
LIGHT DUTY PAVEMENT	▨
PAINTED STRIPE	———
CONCRETE CURB	═══
CENTERLINE	— - — - —
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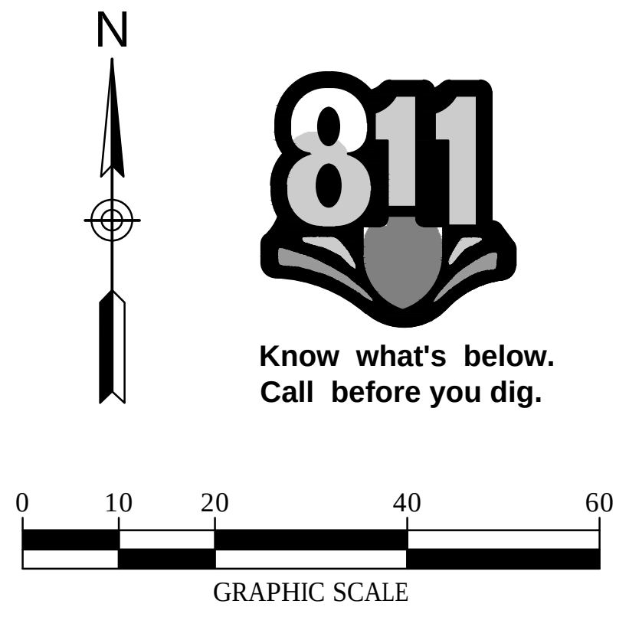
TREE PROTECTION	——T P——

NOTES

1. SEE SHEET L2.0 FOR LANDSCAPE NOTES.



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DRAWING NUMBER
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DRAWING NAME
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SHEET
L1.3

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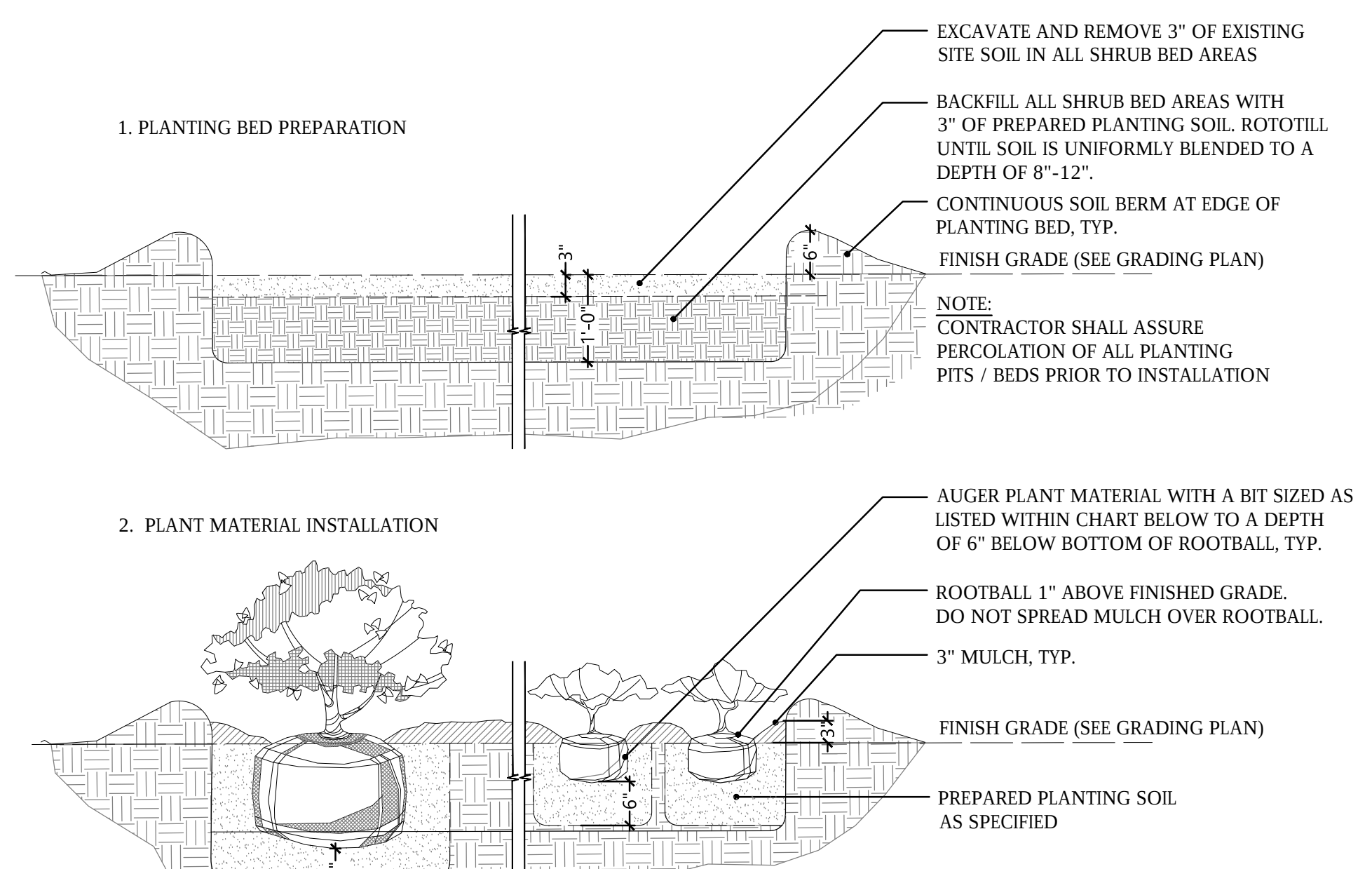
LANDSCAPE NOTES

1. The Contractor shall field verify all existing conditions and base information prior to initiating planting installation.
2. Contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, irrigation and information available at the time of preparing these documents.
3. Contractor shall familiarize themselves with existing site conditions prior to initiating planting.
4. Unless otherwise noted, the limits of construction are the limits of work noted on the drawings.
5. Report any discrepancies between the construction drawings and field conditions to the Owner's Representative immediately.
6. Contractor shall layout all demolition lines and verify layout with the owner's representative prior to beginning any construction work.
7. Report and document all existing damage of existing site features and elements to the owner prior to beginning work. Contractor shall be responsible for all subsequent damage.
8. Contractor shall protect, by whatever means necessary, the existing site features and elements to remain. All damaged items shall be replaced or repaired at no additional cost to the owner. Notify owner immediately if any damages occur.
9. Contractor shall provide all necessary safety measures that may be required during the construction process to protect the public and owner at all times as per all applicable codes and recognized local practices.
10. Contractor shall protect all existing plant materials indicated on the plans to remain. All plant material indicated to remain damaged by the contractor shall be replaced by the contractor at no additional cost to the owner with same size, quality, and type of plant material.
11. Contractor shall clean the work areas at the end of each working day. Construction rubbish and debris shall be collected and deposited off-site daily. All materials and equipment stored on-site shall be kept in an organized manner daily.
9. Landscape contractor shall coordinate all work with related contractors and with the general construction of the project in order not to impede the progress of the work of others or the contractor's own work.
10. The contractor shall bear all costs of testing of soils, amendments, etc. associated with the work and included in the specifications. Prior to commencement of the landscape planting work the Contractor shall provide complete soil tests for at least two on-site areas.
11. All plant materials shall be in full and strict accordance with the "Missouri Grades and Standards" and the project manual and specifications. Plant materials shall exceed in some instances some specifications if necessary to meet the minimum requirements of others.
12. All tress shall have four feet (4') clear trunk except for Weeping Cherry.
13. All container sizes noted on plant list are minimum. Increase size if necessary to conform to plant size and specifications.
14. All tree caliper sizes noted on plant list are minimum. Increase size if necessary to conform to plant size and specifications.
15. Any tree with a trunk formed "V" shape crotch will be rejected.
16. Typically, shrub and groundcover plantings are shown as mass planting beds. Plants shall be placed on a triangular spacing configuration (staggered spacing).
17. Landscape Contractor shall field stake the location of all plant material prior to initiating installation for the review and approval of the Owner's Representative and/or Landscape Architect.
18. Landscape Contractor shall field adjust location of plant material as necessary to avoid damage to all existing underground utilities and/or existing above ground elements. All changes required shall be completed at the Contractor's expense and shall be coordinated with the Owner Representative and/or Landscape Architect.
19. Contractor shall mulch all new plant material throughout and completely to the depth specified.
20. Any substitution in size and/or plant material must be approved by the Landscape Architect. All plants will be subject to approval by Landscape Architect and/or Owner's Representative before planting can begin.
21. Contractor shall refer to landscape planting details, plant list, general notes and the project manual and specifications for further and complete landscape planting instructions.
22. All shade trees are to be planted a minimum of 10' from a fire hydrant, fire plug, storm box per City regulations.
23. Minimum clear site lines are shown at all street intersections. 18" minimum offset is required from all plantings to clear sight lines.
24. All landscaping shown in this complete plan set must be fertilized and cared for 30 days from the date of substantial completion per the maintenance specifications. The landscape contractor is responsible for this landscape maintenance and not the presiding municipality.
25. All planting areas to have head-to-head irrigation coverage (100% coverage) throughout the establishment period. See Irrigation Plans.
26. All areas disturbed during construction to be fine graded to drain and replanted with solid weed-free sod to match the existing grass. No muck grown sod allowed in stormwater detention ponds, sand grown sod only. The quantity of sod shown on the plant schedule is an estimate only. The total quantity of sod will depend on the size of the disturbed area.

Irrigation Notes:

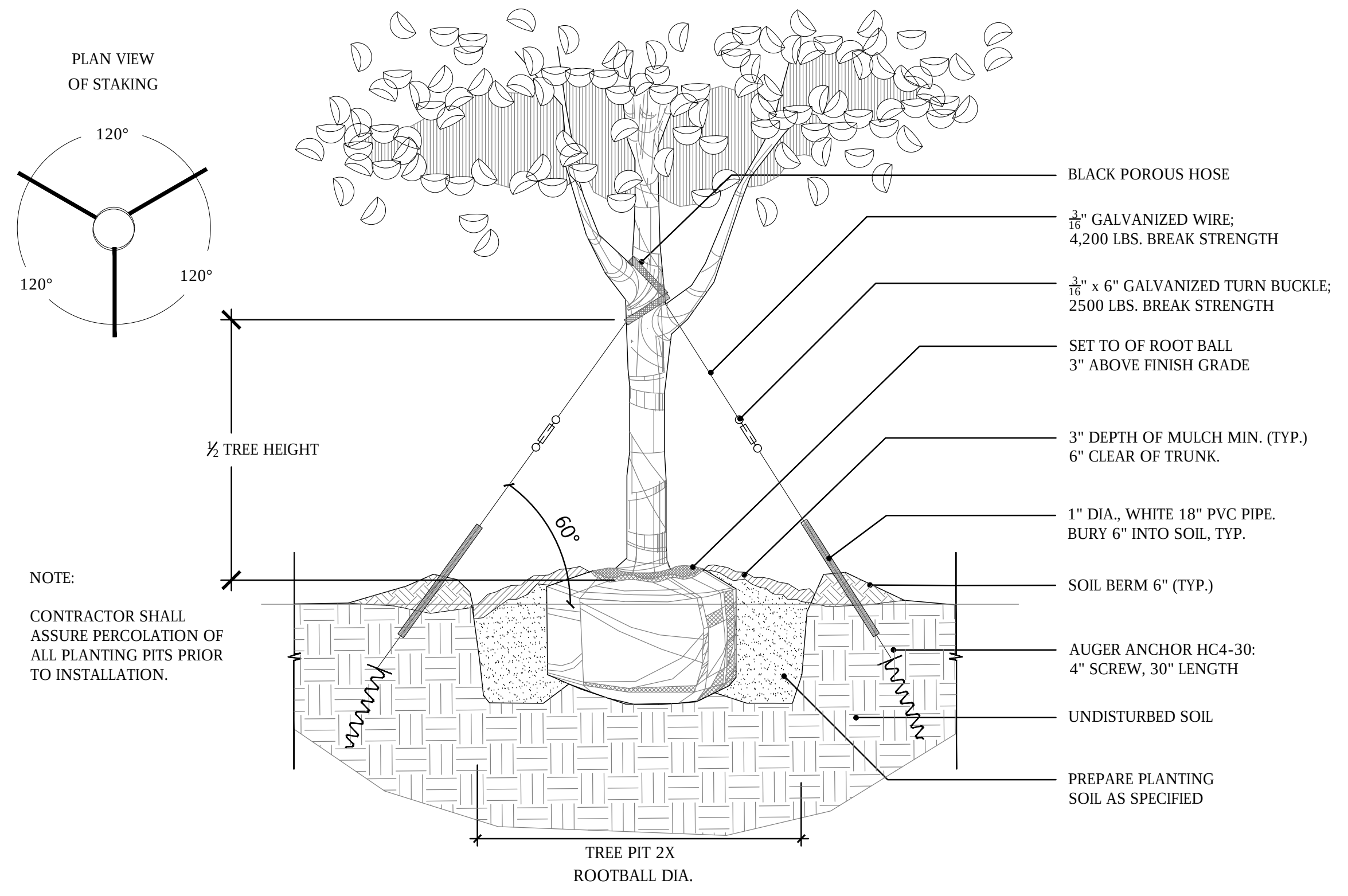
1. All landscaped areas shall be provided with an irrigation system that supplies
100 percent coverage to all required landscaping plant material. The irrigation system may consist of an automatic or manual underground system, or drip system. A low volume irrigation system should be used wherever possible. the irrigation system shall be designed to minimize root disturbance to existing trees and other vegetation to be retained.
2. Landscape contractor to provide irrigation system on a design/build arrangement for proposed landscape areas. Contractor to prepare design drawings in accordance with performance specifications per local code and submit same for approval by the owner's representative prior to construction.
3. Contractor to coordinate with landscape architect regarding limits of irrigation and system/main line sizing for future development needs.
4. Contractor to confirm adequate pressure exists to operate system prior to installation. Contractor to verify meter, backflow and valve size requirements.
5. Main line to be class 200 pvc pipe. Lateral lines to be class 150 pvc.
6. Irrigation system to be operational before planting materials may be installed in planting beds.
7. Install sprinkler heads according to manufacturers specifications. Flush all lines before installing nozzles.
8. Wire connections to be made by using Rainbird model ST-103/PT-ST snap-tite connections.
9. Leave 18 inches of additional wire at each valve location. roll wire into coil at each location.
10. All valves shall be located in Amatex 10 inch circular valve boxes with cover, or equal.
11. Irrigation contractor to coordinate placement of required sleeves with general contractor prior to paving and concrete installation being completed.
12. Sprinklers in parking pace overhangs shall be located 18" back of curb.
13. Sprinklers in all landscape areas shall clear all plant materials when in operation.
14. All exposed PVC pipe shall be painted flat black.


1. PLANTING BED PREPARATION
EXCAVATE AND REMOVE 3" OF EXISTING SITE SOIL IN ALL SHRUB BED AREAS
BACKFILL ALL SHRUB BED AREAS WITH 3" OF PREPARED PLANTING SOIL. ROTOTILL UNTIL SOIL IS UNIFORMLY BLENDED TO A DEPTH OF 8"-12".
CONTINUOUS SOIL BERM AT EDGE OF PLANTING BED, TYP.
FINISH GRADE (SEE GRADING PLAN)
3"
1'-0"
6"
2. PLANT MATERIAL INSTALLATION
AUGER PLANT MATERIAL WITH A BIT SIZED AS LISTED WITHIN CHART BELOW TO A DEPTH OF 6" BELOW BOTTOM OF ROOTBALL, TYP.
ROOTBALL 1" ABOVE FINISHED GRADE. DO NOT SPREAD MULCH OVER ROOTBALL.
3" MULCH, TYP.
FINISH GRADE (SEE GRADING PLAN)
PREPARED PLANTING SOIL AS SPECIFIED
6"
6"
3"

NOTE:
CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS / BEDS PRIOR TO INSTALLATION

PLANT MATERIAL SIZE	USE AUGER SIZE
1 GALLON	3 GALLON
3 GALLON	7 GALLON
7 GALLON	15 GALLON
15 GALLON AND LARGER	SEE TREE PLTG. DETAILS

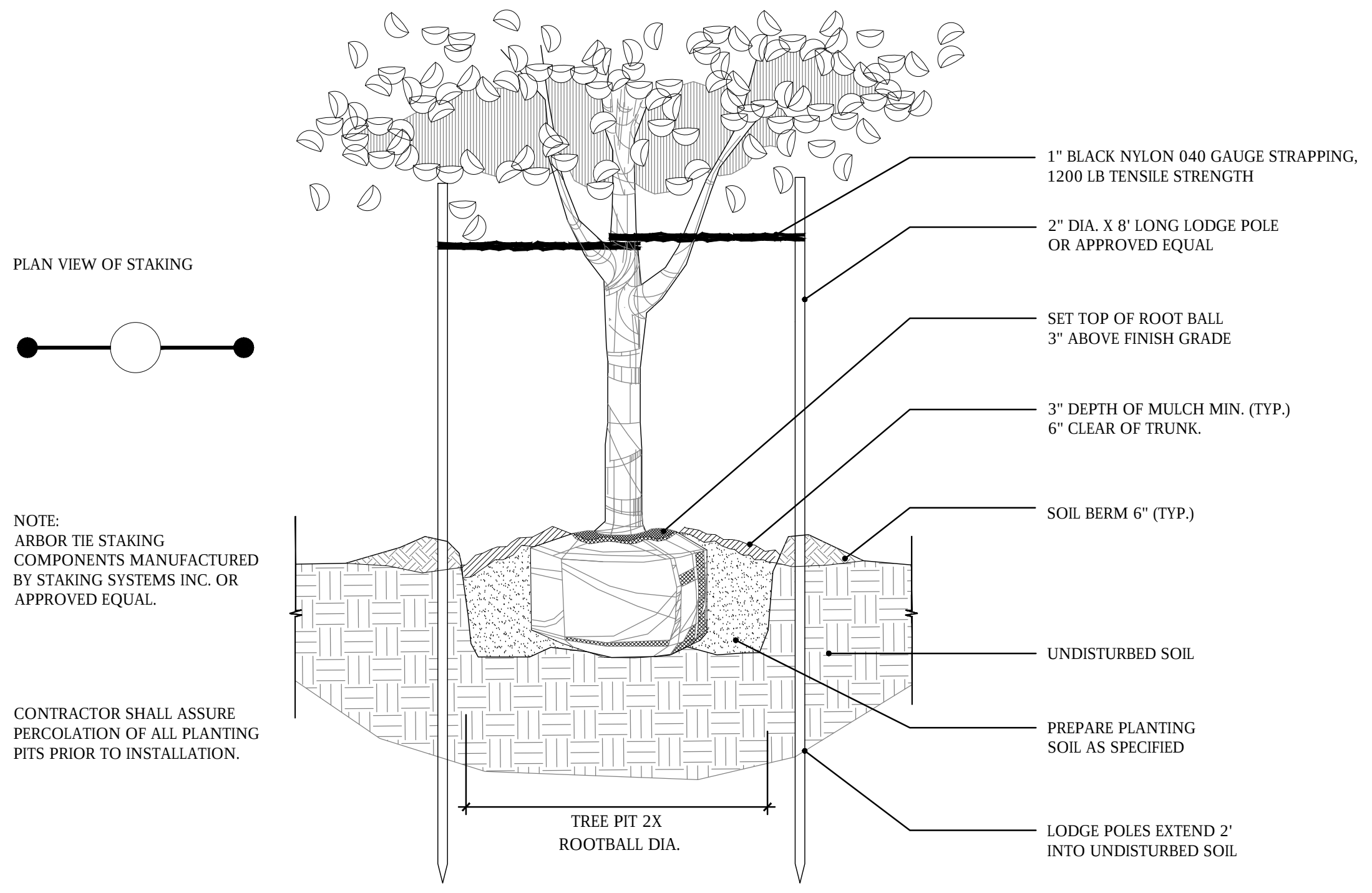
1 SHRUB AND GROUNDCOVER PLANTING
SCALE: NTS


PLAN VIEW OF STAKING
120°
120°
120°
½ TREE HEIGHT
60°
BLACK POROUS HOSE
3/16" GALVANIZED WIRE; 4,200 LBS. BREAK STRENGTH
3/16" x 6" GALVANIZED TURN BUCKLE; 2500 LBS. BREAK STRENGTH
SET TO OF ROOT BALL 3" ABOVE FINISH GRADE
3" DEPTH OF MULCH MIN. (TYP.) 6" CLEAR OF TRUNK.
1" DIA., WHITE 18" PVC PIPE. BURY 6" INTO SOIL, TYP.
SOIL BERM 6" (TYP.)
AUGER ANCHOR HC4-30: 4" SCREW, 30" LENGTH
UNDISTURBED SOIL
PREPARE PLANTING SOIL AS SPECIFIED
TREE PIT 2X ROOTBALL DIA.

NOTE:

CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

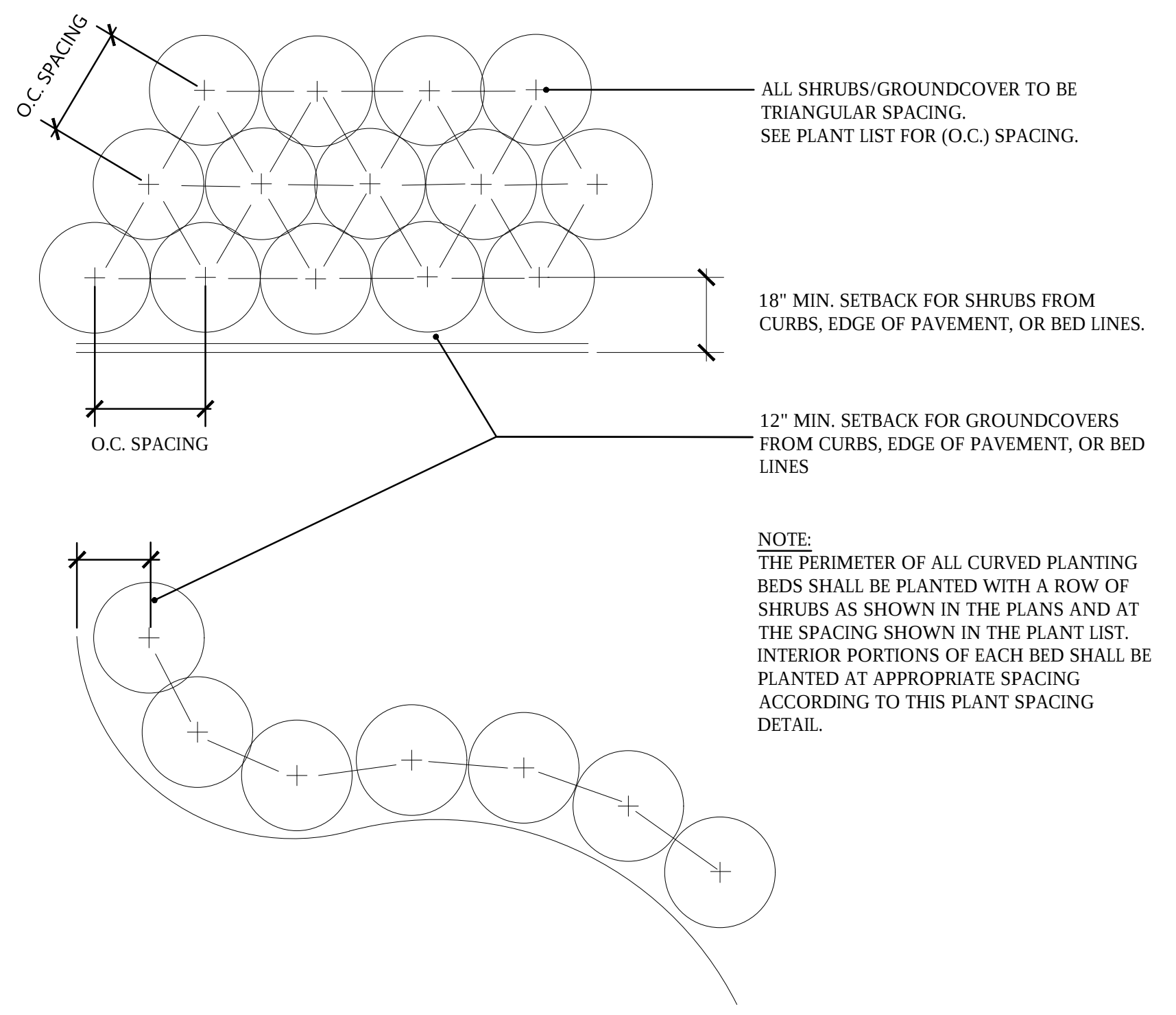
2 TREE PLANTING - 3" TO 7" CAL.
SCALE: NTS


PLAN VIEW OF STAKING
1" BLACK NYLON 040 GAUGE STRAPPING, 1200 LB TENSILE STRENGTH
2" DIA. X 8' LONG LODGE POLE OR APPROVED EQUAL
SET TOP OF ROOT BALL 3" ABOVE FINISH GRADE
3" DEPTH OF MULCH MIN. (TYP.) 6" CLEAR OF TRUNK.
SOIL BERM 6" (TYP.)
UNDISTURBED SOIL
PREPARE PLANTING SOIL AS SPECIFIED
LODGE POLES EXTEND 2' INTO UNDISTURBED SOIL
TREE PIT 2X ROOTBALL DIA.

NOTE:
ARBOR TIE STAKING COMPONENTS MANUFACTURED BY STAKING SYSTEMS INC. OR APPROVED EQUAL.

CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

3 TREE PLANTING - UP TO 3" CAL.
SCALE: NTS


O.C. SPACING
O.C. SPACING
ALL SHRUBS/GROUNDCOVER TO BE TRIANGULAR SPACING. SEE PLANT LIST FOR (O.C.) SPACING.
18" MIN. SETBACK FOR SHRUBS FROM CURBS, EDGE OF PAVEMENT, OR BED LINES.
12" MIN. SETBACK FOR GROUNDCOVERS FROM CURBS, EDGE OF PAVEMENT, OR BED LINES

NOTE:
THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

4 SHRUB AND GROUNDCOVER SPACING
SCALE: NTS

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Edward Browder, PLA 2018001073

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LEE'S SUMMIT, MO 64063
816.282.5000

LEE'S SUMMIT MEDICAL CENTER
MEDICAL OFFICE BUILDING
LEE'S SUMMIT, MISSOURI

EDWARD ALLEN BROWDER
NUMBER PLA-2018001073
2/15/19

NO.	DATE	DESCRIPTION	BY	CHK	APV
△	02/15/2019	Construction Documents	MCV	OAB	GBH

PROJECT NUMBER
527116043

DRAWING NUMBER
L2.0

DRAWING NAME
LANDSCAPE
DETAILS

HEREFORD ā DOOLEY
ARCHITECTS

1720 WEST END AVE · SUITE 300
NASHVILLE · TENNESSEE · 37203
P · 615 · 244 · 7399
F · 615 · 244 · 6697
WWW.HDARCHITECTS.COM

LICENSE NUMBER: 123456789101112

PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DATES OF ISSUANCE
02/15/2019
△

TITLE
LANDSCAPE DETAILS

SHEET
L2.0

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GENERAL NOTES

DESIGN AND CODE INFORMATION

1. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2012 EDITION.

2. VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.

3. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT FOUR COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

4. COMPLETE SHOP DRAWINGS AND CALCULATIONS FOR COMPONETS NOT DESIGNED BY THE ENGINEER OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FABRICATION, INCLUDING BUT LIMITED TO THE FOLLOWING COMPONETS:

   (X) STRUCTURAL STEEL CONNECTION DESIGNS
   (X) STRUCTURAL STONE AND VENEER SUPPORTS
   (X) GLAZED SYSTEM (INCLUDING BUT NOT LIMITED TO WINDOW UNITS, CURTAIN WALLS, AND STOREFRONT (S) WHICH EXCEEDS TEN (10) FEET IN HEIGHT
   (X) COLD FORMED METAL FRAMING
   (X) STAIRS
   (X) HANDRAILS

5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

7. LIVE LOADS:
   OFFICES: 80 PSF (INCLUDING PARTITIONS)
   ROOFS: 20 PSF

8. SUPERIMPOSED DEAD LOADS:
   FLOORS: 15 PSF
   ROOF: 25 PSF

9. ROOF LOADS:
   GROUND SNOW LOAD: 20 PSF
   SNOW EXPOSURE Ce: .9
   SNOW IMPORTANCE I: 1.1
   THERMAL FACTOR Ct: 1.0
   FLAT ROOF SNOW LOAD: 14 PSF

10. WIND LOADS:
   BASIC WIND SPEED: 115 MPH
   WIND IMPORTANCE I: 1.0
   WIND EXPOSURE FACTOR: B
   INTERNAL PRESSURE COEFFICIENT: .18
   CLADDING LOAD: 25 PSF

11. SEISMIC LOADS:
   SEISMIC USE GROUP: II
   SEISMIC IMPORTANCE Ie: 1.0
   .2 SEC SPECTRAL RESPONSE ACCELERATION Ss: 0.114
   1.0 SEC SPECTRAL RESPONSE ACCELERATION S1: 0.067
   SITE CLASS: D
   DESIGN SPECTRAL RESPONSE SDS: 0.122
   DESIGN SPECTRAL RESPONSE SD1: 0.107
   SEISMIC DESIGN CATEGORY: B
   RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
   RESPONSE MODIFICATION FACTOR R: 3.5
   SEISMIC RESPONSE COEFFICIENT Cs: 0.035
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE 0.022
   BASE SHEAR: 180 kips

12. SPECIAL LOADS FOR ITEMS TO BE DESIGNED BY OTHERS:
   STAIRS: 100 PSF
   HAND RAILS: 50 PLF
   VEHICLE BARRIERS: 6,000 POUNDS

SPECIAL INSPECTIONS AND TESTING

1. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET S002.

STRUCTURAL OBSERVATIONS

1. THE ENGINEER OF RECORD HAS BEEN EMPLOYED TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON A REPORT MADE BY TERRACON DATED JUNE 9, 2017 (REPORT NO. 02175168).

2. INDIVIDUAL AUGER CAST PILES ARE DESIGNED TO BEAR ON UNIFORM ROCK CAPABLE OF SUPPORTING 100,000 PSF AND 5KSF SKIN FRICTION IN BEDROCK. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.

3. THE ROCK BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN DRILLED SHAFT EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2 SHAFT DIAMETERS INTO WEATHERED ROCK (ROCK SOCKET) MINIMUM BELOW FINISHED GRADE.

4. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318-11).

2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).

3. THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE:
   4000 PSI – SLABS-ON-GRADE
   4000 PSI - PIERS, WALLS
   4000 PSI - BEAMS, ELEVATED SLABS AND COLUMNS
   3000 PSI - ALL OTHER CONCRETE
   (SEE CIVIL DRAWINGS FOR SITE CONCRETE STRENGTH REQUIREMENTS).

4. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-11, UNLESS NOTED OTHERWISE.

5. CLEAR CONCRETE COVER FOR REINFORCING STEEL:

SLABS	3/4"
GRADE BEAMS AND PIERS	2"
WALLS	2" EXTERIOR FACES 3/4" INTERIOR FACES
MASONRY WALLS	LOCATE IN CENTER OF WALL (U.N.O.)
SLAB ON GRADE	3/4" TOP STEEL 1-1/2" BOTTOM STEEL
BEAMS AND COLUMNS	1-1/2" FORMED EDGES
FOOTINGS	2" FORMED EDGES 3" CAST AGAINST GROUND

6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.

7. CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 2-#6 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.

8. CONSTRUCTION JOINTS IN BEAMS, GIRDERS AND SLABS SHALL OCCUR AT MID-SPAN AND SHALL BE KEYED. IN ALL CASES THE LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. KEYWAYS SHALL BE ONE THIRD THE DEPTH OF THE MEMBER AND PLACED AT MID-DEPTH.

9. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.

10. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.

11. THE SLAB ON GRADE SHALL BE CONSTRUCTED OF CONCRETE WITH A DRY UNIT WEIGHT OF 145 PCF AT THE END OF 28 DAYS.

12. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA:

    SPECIFIED OVERALL F NUMBERS
       FLATNESS FF = 35
       LEVEL FL = 25

    MINIMUM LOCAL F NUMBERS
       FLATNESS FF = 24
       LEVEL FL = 17

13. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

14. THE CONCRETE FILL ON COMPOSITE DECK SHALL BE LIGHTWEIGHT STRUCTURAL CONCRETE (107-113 PCF) WITH 4% TO 7% ENTRAINED AIR AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (f'c) IN 28 DAYS.

CONCRETE MASONRY

1. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

2. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM PRISM STRENGTH (F'M) OF 1500 PSI.

3. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "MORTAR AND GROUT FOR REINFORCED MASONRY," ASTM C-476, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'M) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.

4. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270.

5. MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.

6. ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOWELED 7 INCHES INTO BOND BEAMS AT TOP OF WALLS.

7. MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.)

8. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN" FOURTEENTH EDITION.

2. STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.

3. STRUCTURAL PIPE COLUMNS SHALL BE ASTM A-53, TYPE E OR S, GRADE B. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.

4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.

5. USE DIRECT TENSION INDICATORS AND HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS OR USE LOAD INDICATOR BOLTS.

6. METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.

7. WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAGE.

8. MISCELLANEOUS ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS. ANCHOR RODS AT COLUMN BASE PLATES SHALL BE ASTM F-1554 GRADE 55. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION. COLUMN ANCHOR RODS SHALL BE HELD IN PLACE BY TEMPLATES, AND POSITIONED PRIOR TO CASTING CONCRETE.

9. FRAMED BEAM CONNECTIONS SHALL DE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE REACTION SHOWN FOR THE ENDS OF BEAMS ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP ONE-HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL.

10. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.

11. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.

12. PROVIDE SPECIAL JOIST SEATS WHERE REQUIRED BY NARROW BEARING CONDITIONS.

13. PAINT ALL STRUCTURAL STEEL THAT DOES NOT RECEIVE SPRAY-ON FIREPROOFING WITH ONE COAT OF RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL, WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.

14. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SHOP DRAWINGS SHALL INCLUDE NUMBER, SPACING, AND DISTANCE FROM BEAM CENTERLINE OF SHEAR STUDS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL.

LIGHT GAGE METAL FRAMING

1. UNLESS NOTED OTHERWISE, LIGHT GAGE METAL FRAMING SHALL COMPLY WITH ASTM A653, A792 AND C955. ALL MEMBERS SHALL BE GALVANIZED OR ALUMINUM/ZINC COATED.

2. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING ALL MEMBER GAGES, SPACINGS, AND SIZES. INCLUDE COMPLETE DETAILS OF ALL CONNECTIONS. FABRICATION SHALL NOT BEGIN UNTIL SUCH SHOP DRAWINGS ARE SUBMITTED AND APPROVED.

3. THE STRUCTURAL DESIGN OF LIGHT GAGE METAL FRAMING SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. SHOP DRAWINGS AND CALCULATIONS CARRYING THE SEAL OF THE REGISTERED STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE APPROVED. DESIGN LOADS SHALL BE AS SPECIFIED BY THE STRUCTURAL CONTRACT DOCUMENTS AND/OR THE APPLICABLE CODES WHICHEVER IS MORE STRINGENT.

HEREFORD · DOOLEY
ARCHITECTS

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LICENSE NUMBER: 123456789101112

PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DANIEL R. BORSOS
NUMBER PE-024916
2-15-19

DATES OF ISSUANCE
02/15/19
△

STRUCTURAL ENGINEERS, P.C.
4525 Trousdale Drive
Nashville, Tennessee 37204
(615) 781-8199
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17153_R16

TITLE
GENERAL NOTES

SHEET
S001

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2/15/2019 4:30:13 PM

STATEMENT OF SPECIAL INSTRUCTION

THE STATEMENT OF SPECIAL INSPECTION IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT.

THE SPECIAL INSPECTOR SHALL
KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROCESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO
THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A FINAL REPORT
OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTION, TESTING, AND CORRECTION OF AN DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEAN AND METHODS OF CONSTRUCTION ARE
SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

THE FOLLOWING COMPONENTS ARE WIND-RESISTING COMPONENTS OR PART OF THE MAIN WIND-FORCE RESISTING SYSTEM AND ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: WIND RESISTANCE ____________________________________.

THE FOLLOWING COMPONENTS ARE DESIGNED SEISMIC SYSTEM OR PART OF THE SEISMIC-FORCE RESISTING SYSTEM THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: SEISMIC RESISTANCE ____________________________________.

SPECIAL INSPECTION SCHEDULE: FABRICATORS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. VERIFY FABRICATION AND IMPLEMENTATION PROCEDURES:			
A. STEEL CONSTRUCTION	Y	--	X
B. CONCRETE CONSTRUCTION (INCLUDING REBAR FABRICATION)	Y	--	X
C. WOOD CONSTRUCTION	Y	--	X
D. COLD-FORMED METAL CONSTRUCTION	Y	--	X
E. OTHER CONSTRUCTION	Y	--	X

SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	Y	X	--
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM PIER DIAMETERS, LENGTHS EMBEDMENT INTO BEDROCK AND ADEQUATE END BEARING STRATA CAPACITY, RECORD CONCRETE OR GROUT VOLUMES.	Y	X	--
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH THE CONCRETE SPECIAL INSPECTIONS.	Y	--	--
4. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED.	Y	--	--

SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE FOUNDATION CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: CAST-IN-PLACE CONCRETE FOR THE FOLLOWING FOUNDATION ELEMENTS:			
A. ISOLATED SPREAD CONCRETE FOOTINGS	Y	--	--
B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS	Y	--	--
C. CONCRETE FOUNDATION WALLS	Y	--	--

SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	N	--	X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH THE SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL, ITEM 3.	N	--	--
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	Y	X	X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	Y	--	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.	Y	--	X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	X	--
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Y	X	--
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Y	--	X
9. INSPECTION OF PRESTRESSED CONCRETE:			
A. APPLICATION OF PRESTRESSING FORCES	N	X	--
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	N	X	--
10. ERECTION OF PRECAST CONCRETE MEMBERS.	N	--	X
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	N	--	X
12. INSPECT FORMWORK FOR SHAPE, LOCATIONS AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Y	--	X

SPECIAL INSPECTION SCHEDULE: STRUCTURAL STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	Y	--	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	Y	--	X
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
A. SNUG-TIGHT JOINTS	Y	--	X
B. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	Y	--	X
C. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	Y	X	--
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS AND AISC 360	Y	--	X
B. MANUFACTURER'S CERTIFIED TEST REPORTS	Y	--	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	Y	--	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	Y	--	X
5. INSPECTION OF WELDING, STRUCTURAL STEEL:			
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	Y	X	--
B. MULTIPASS FILLET WELDS	Y	X	--
C. SINGLE-PASS FILLET WELDS > 5/16"	Y	X	--
D. SINGLE-PASS FILLET WELDS ≤ 5/16"	Y	--	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:			
A. DETAILS SUCH AS BRACING AND STIFFENING	Y	--	X
B. MEMBER LOCATIONS	Y	--	X
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	Y	--	X

SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	Y	--	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	Y	--	X
2. INSPECTION OF WELDING, COLD-FORMED STEEL DECK:			
A. FLOOR AND ROOF DECK WELDS.	Y	--	X
3. INSPECTION OF WELDING, REINFORCING STEEL:			
A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	N	--	X
B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	N	X	--
C. SHEAR REINFORCEMENT	N	X	--
D. OTHER REINFORCING STEEL	N	--	X
4. INSPECTION OF COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER:			
A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	N	--	X
B. VERIFY PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/ BRACING ARE INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	N	--	X

SPECIAL INSPECTION SCHEDULE: SEISMIC RESISTANCE

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. INSPECTION OF PIER FOUNDATIONS:			
A. INSPECT PLACEMENT OF REINFORCEMENT	Y	X	--
B. INSPECT PLACEMENT OF CONCRETE	Y	--	X
2. INSPECTION OF CONCRETE REINFORCEMENT:			
A. VERIFY CERTIFIED MILL TEST REPORTS COMPLY WITH ACI 318 CHAPTER 21 REQUIREMENTS.	Y	--	X
B. WHERE REINFORCING COMPLYING WITH ASTM A 615 IS TO BE WELDED CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY.	N	--	X
3. INSPECTION OF STRUCTURAL STEEL:			
A. INSPECTIONS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341	Y	--	--
4. INSPECTION OF COLD-FORMED STEEL FRAMING:			
A. INSPECT WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.	N	--	X
B. INSPECT SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	N	--	X
5. INSPECTION OF STRUCTURAL WOOD:			
A. INSPECT FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.	N	--	X
B. INSPECT NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, BRACES, DRAG STRUTS, SHEAR PANELS AND HOLD-DOWNS.	N	--	X
6. INSPECTION OF STORAGE RACKS:			
A. INSPECT ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT	N	--	X
7. INSPECTION ON ARCHITECTURAL COMPONENTS:			
A. INSPECT ERECTION AND FASTENING OF EXTERIOR CLADDING	N	--	X
B. INSPECT ERECTION AND FASTENING OF INTERIOR AND EXTERIOR NON-BEARING WALLS	N	--	X
C. INSPECT ERECTION AND FASTENING OR INTERIOR AND EXTERIOR VENEER	N	--	X
D. INSPECT ANCHORAGE OF ACCESS FLOORS	N	--	X
8. INSPECTION OF MECHANICAL AND ELECTRICAL COMPONENTS:			
A. INSPECT ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	N	--	X
B. INSPECT INSTALLATION OF ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT	N	--	X
C. INSPECT INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS INTENDED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS	N	--	X
D. INSPECT INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS	N	--	X
E. INSPECT INSTALLATION OF VIBRATION ISOLATION SYSTEMS WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4" OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT.	N	--	X
9. INSPECTION OF DESIGNATED SEISMIC SYSTEM:			
A. VERIFY LABEL, ANCHORAGE OR MOUNTING CONFORMS TO CERTIFICATE OF COMPLIANCE	N	--	X
10. INSPECTION OF SEISMIC ISOLATION SYSTEMS:			
A. INSPECT THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES THAT ARE PART OF THE SEISMIC ISOLATION SYSTEM.	N	--	X

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LICENSE NUMBER: 123456789101112

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CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DANIEL K. BORSOS
NUMBER PE-024916
2-15-19

DATES OF ISSUANCE
△
02/15/19

STRUCTURAL ENGINEERS, P.C.
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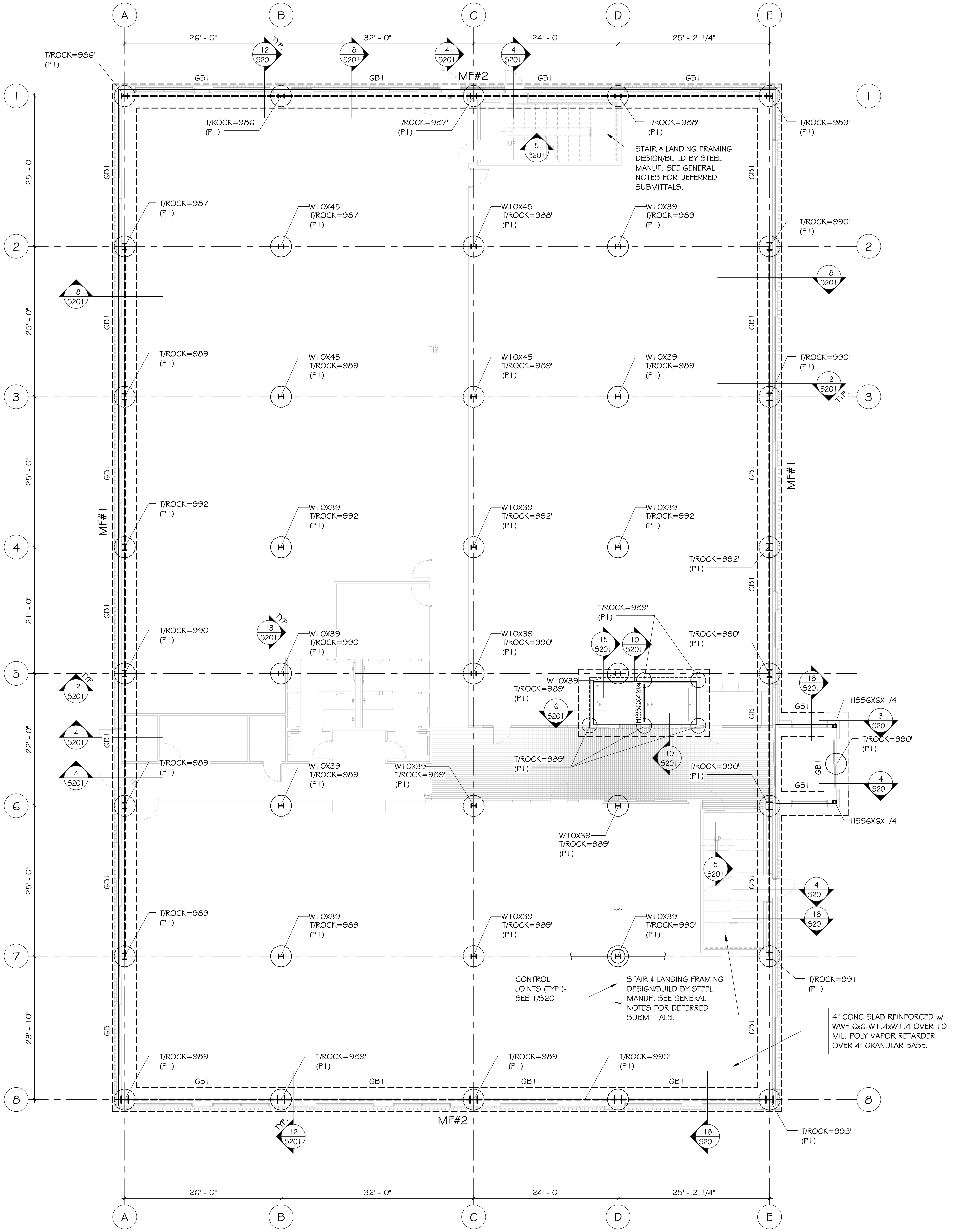
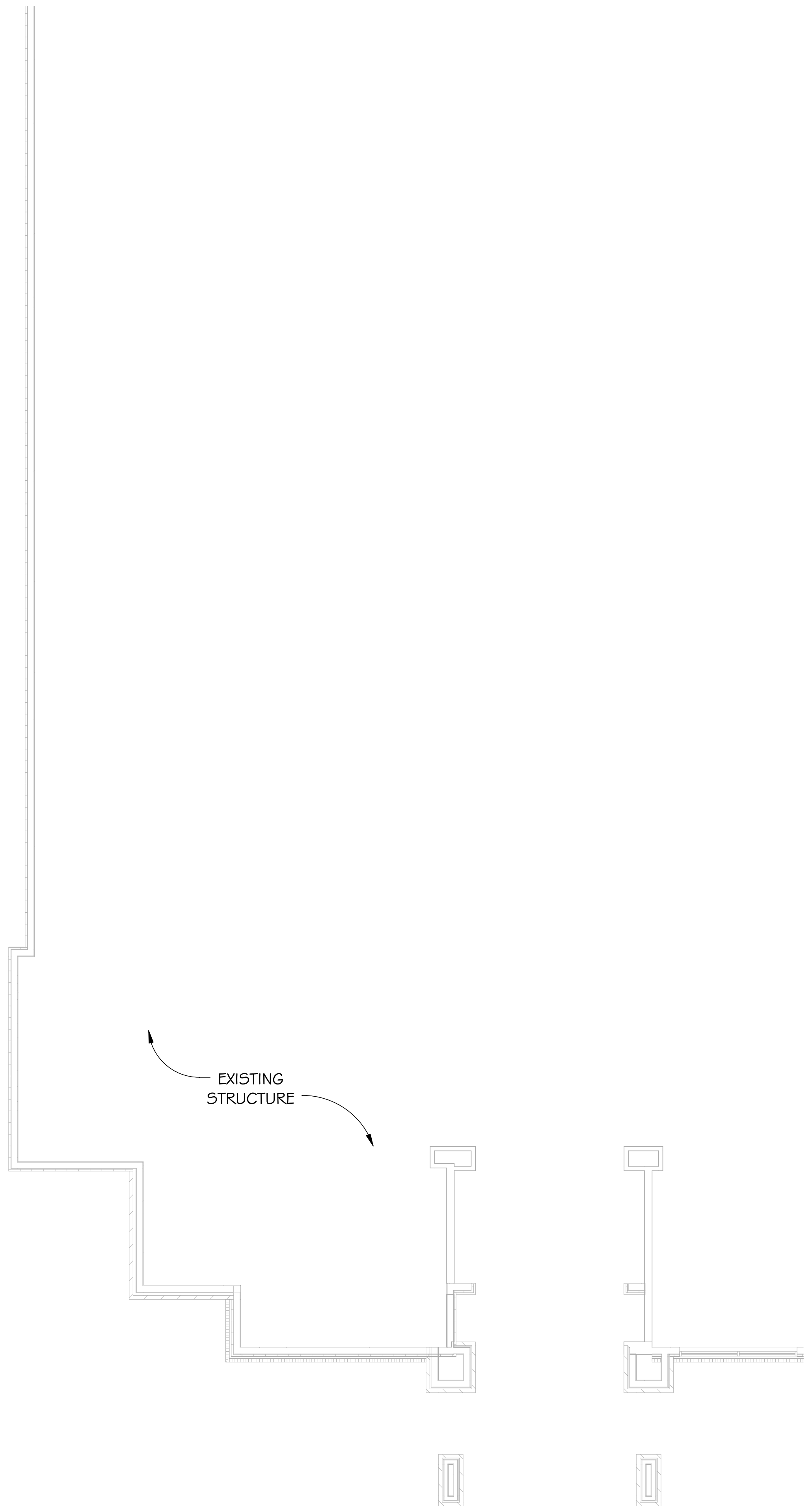
TITLE
QUALITY ASSURANCE PLAN

SHEET
S002





NOTES:

1) TOP OF INTERIOR PIER. = F.F.E. -2'-0" U.N.O.
2) TOP OF EXTERIOR PIER. = -2'-0 BELOW EXTERIOR GRADE.
3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING GRADE BEAMS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
4) SEE ARCH. DWG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
5) SEE DETAIL 1/S201 FOR SLAB CONTROL JOINTS.
6) (P#) - DRILLED PIER, SEE 7/S201 FOR SECHEDULE.
7) GB# - GRADE BEAM, SEE 14/S201 FOR SCHEDULE.
8) MF# - MOMENT FRAME, SEE S401
9) T/ROCK - ESTIMATED TOP OF COMPITENT ROCK ELEVATION BASED ON A GEOTECHINCAL REPORT. ESTIMATE 3 FEET OF WEATHERED ROCK EXCAVATION PRIOR TO REACHING COMPITENT ROCK.

FOUNDATION PLAN

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

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PROJECT #
217026.00
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LEE'S SUMMIT M.O.B.

2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
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DANIEL K. BORSOS
NUMBER PE-024916
2-15-19

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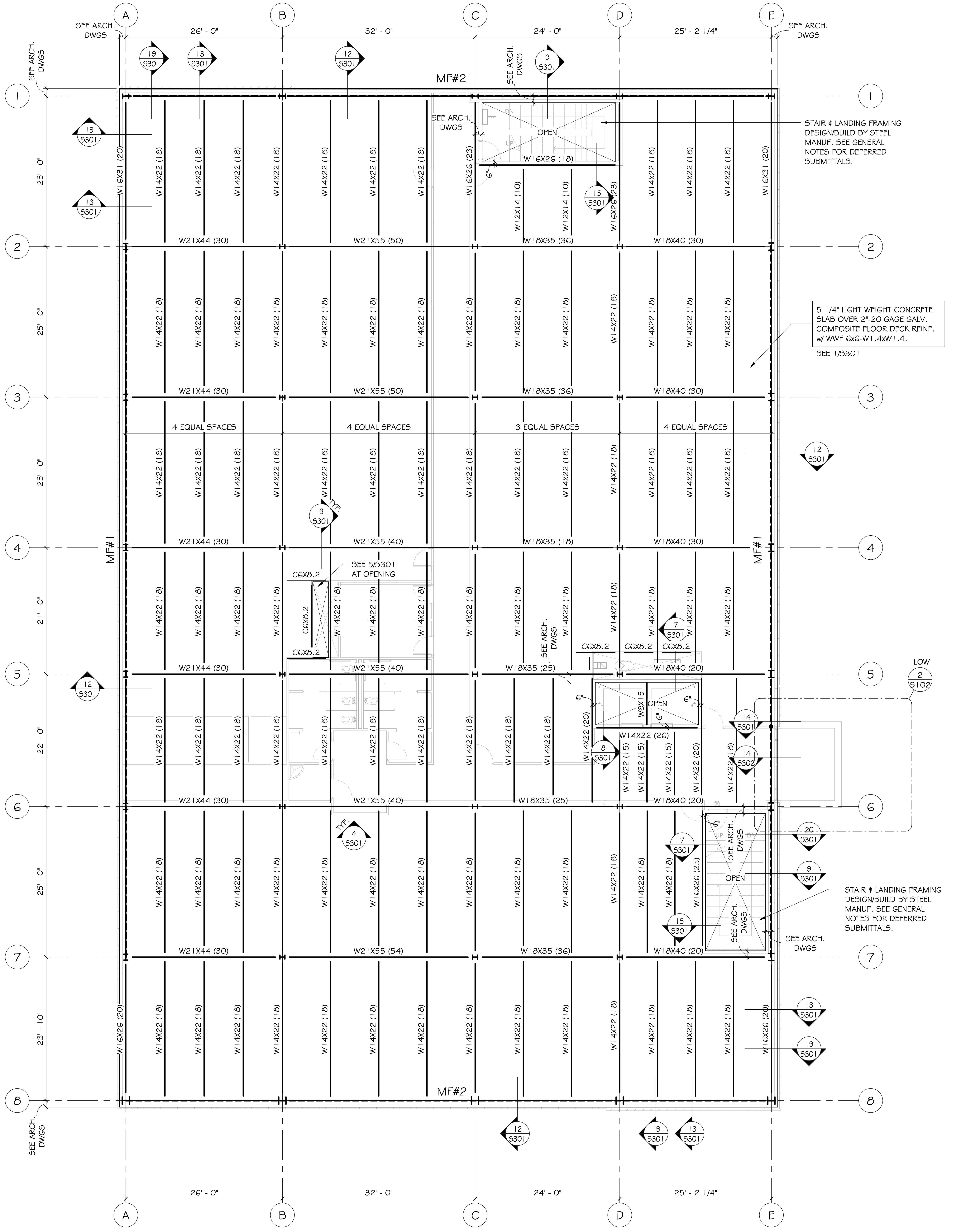
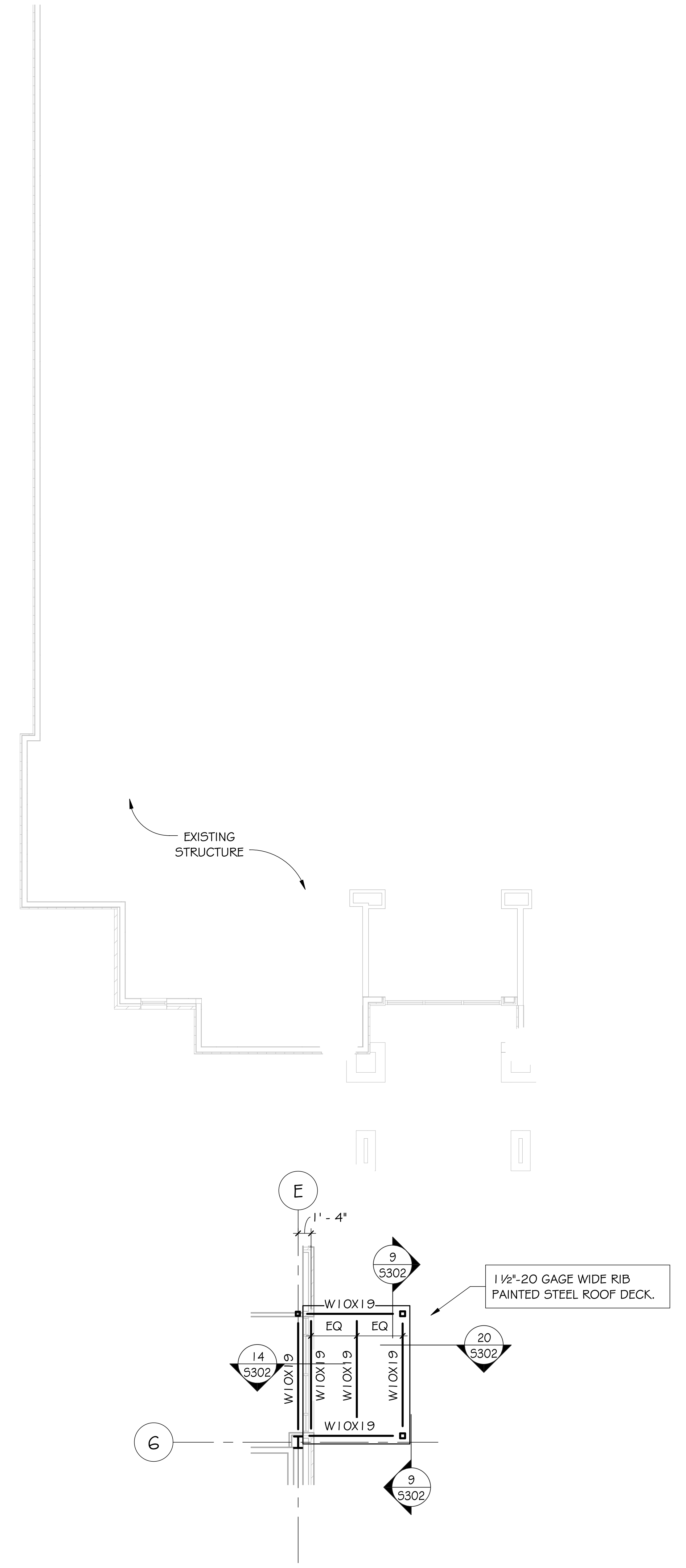
TITLE
FOUNDATION PLAN

SHEET
S101



STAIR & LANDING FRAMING DESIGN/BUILD BY STEEL MANUF. SEE GENERAL NOTES FOR DEFERRED SUBMITTALS.

5 1/4" LIGHT WEIGHT CONCRETE SLAB OVER 2"-20 GAGE GALV. COMPOSITE FLOOR DECK REINF. w/ WWF 6x6-W1.4xW1.4.
SEE 1/S301



1½"-20 GAGE WIDE RIB PAINTED STEEL ROOF DECK.

2 VESTIBULE ROOF FRAMING PLAN

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

FLOOR FRAMING NOTES:

1) TOP OF STEEL = F.F.E. -5 1/4" U.N.O.
2) (10) DENOTES NUMBER OF SHEAR CONNECTORS
3) 19k DENOTES BEAM END REACTION.
4) COORDINATE ALL SLAB OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
5) C=1/2 DENOTES DEAD LOAD DEFLECTIONS. BEAMS SHALL EITHER BE CAMBERED THIS AMOUNT, OR CONTRACTOR SHALL CAST FLOOR SLAB LEVEL USING ADDITIONAL CONCRETE TO OFFSET DEAD LOAD DEFLECTIONS.
6) MF# - DENOTES MOMENT FRAME- SEE S401

SECOND FLOOR FRAMING PLAN

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

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Nashville, Tennessee 37204

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS: CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
DANIEL R. DOBSON
NUMBER
1-15-19

DATES OF ISSUANCE: 02/15/19

TITLE: SECOND FLOOR FRAMING PLAN

SHEET: S102

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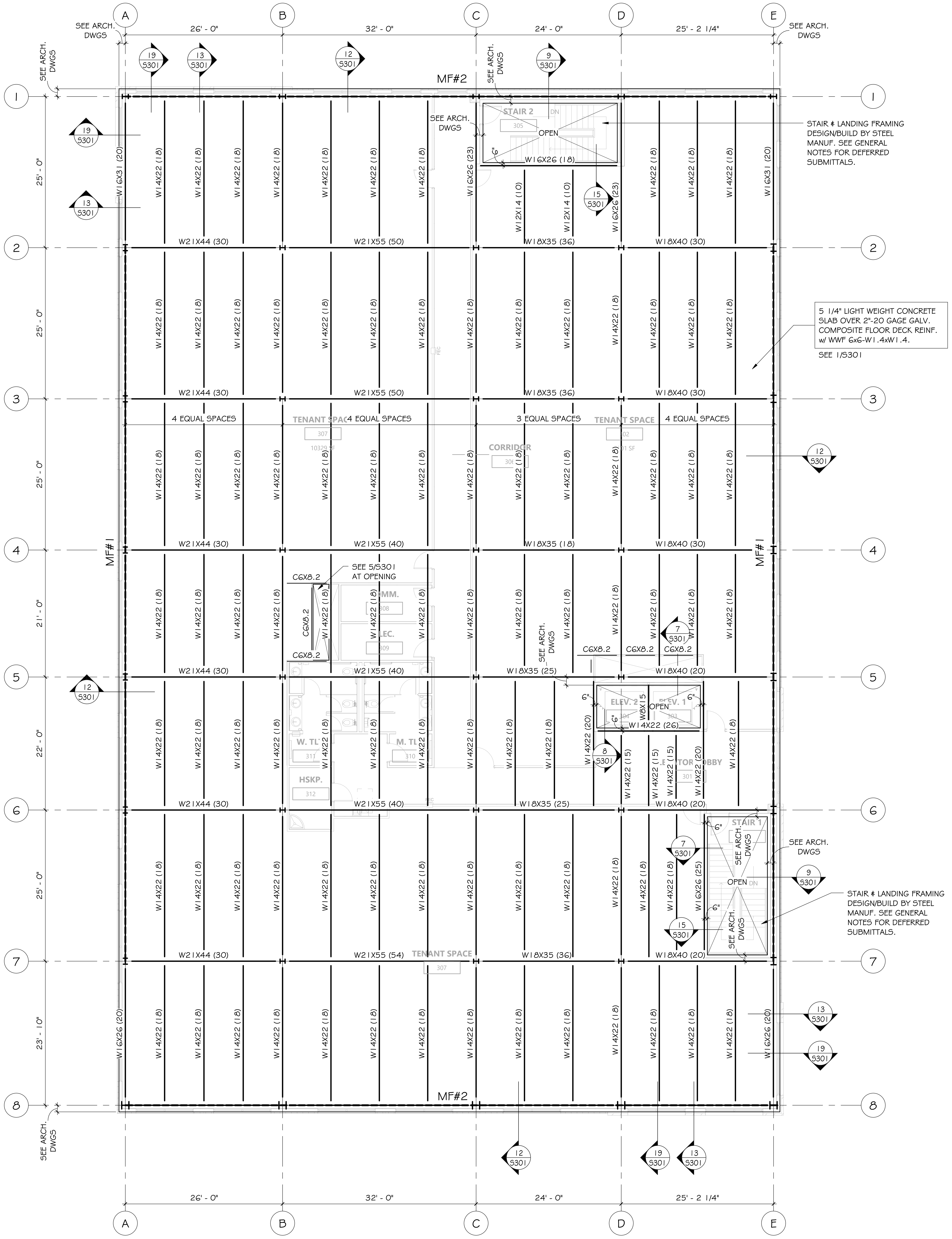

STAIR & LANDING FRAMING DESIGN/BUILD BY STEEL MANUF. SEE GENERAL NOTES FOR DEFERRED SUBMITTALS.

5 1/4" LIGHT WEIGHT CONCRETE SLAB OVER 2"-20 GAGE GALV. COMPOSITE FLOOR DECK REINF. w/ WWF 6x6-W1.4xW1.4.
SEE 1/S301

STAIR & LANDING FRAMING DESIGN/BUILD BY STEEL MANUF. SEE GENERAL NOTES FOR DEFERRED SUBMITTALS.

FLOOR FRAMING NOTES:

1) TOP OF STEEL = F.F.E. -5 1/4" U.N.O.
2) (10) DENOTES NUMBER OF SHEAR CONNECTORS
3) 19k DENOTES BEAM END REACTION.
4) COORDINATE ALL SLAB OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
5) C= 1/2 DENOTES DEAD LOAD DEFLECTIONS. BEAMS SHALL EITHER BE CAMBERED THIS AMOUNT, OR CONTRACTOR SHALL CAST FLOOR SLAB LEVEL USING ADDITIONAL CONCRETE TO OFFSET DEAD LOAD DEFLECTIONS.
6) MF# - DENOTES MOMENT FRAME- SEE S401

THIRD FLOOR FRAMING PLAN

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

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STATUS
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DANIEL R. BURSON
NUMBER PE-2016

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TITLE
THIRD FLOOR FRAMING PLAN

SHEET
S103

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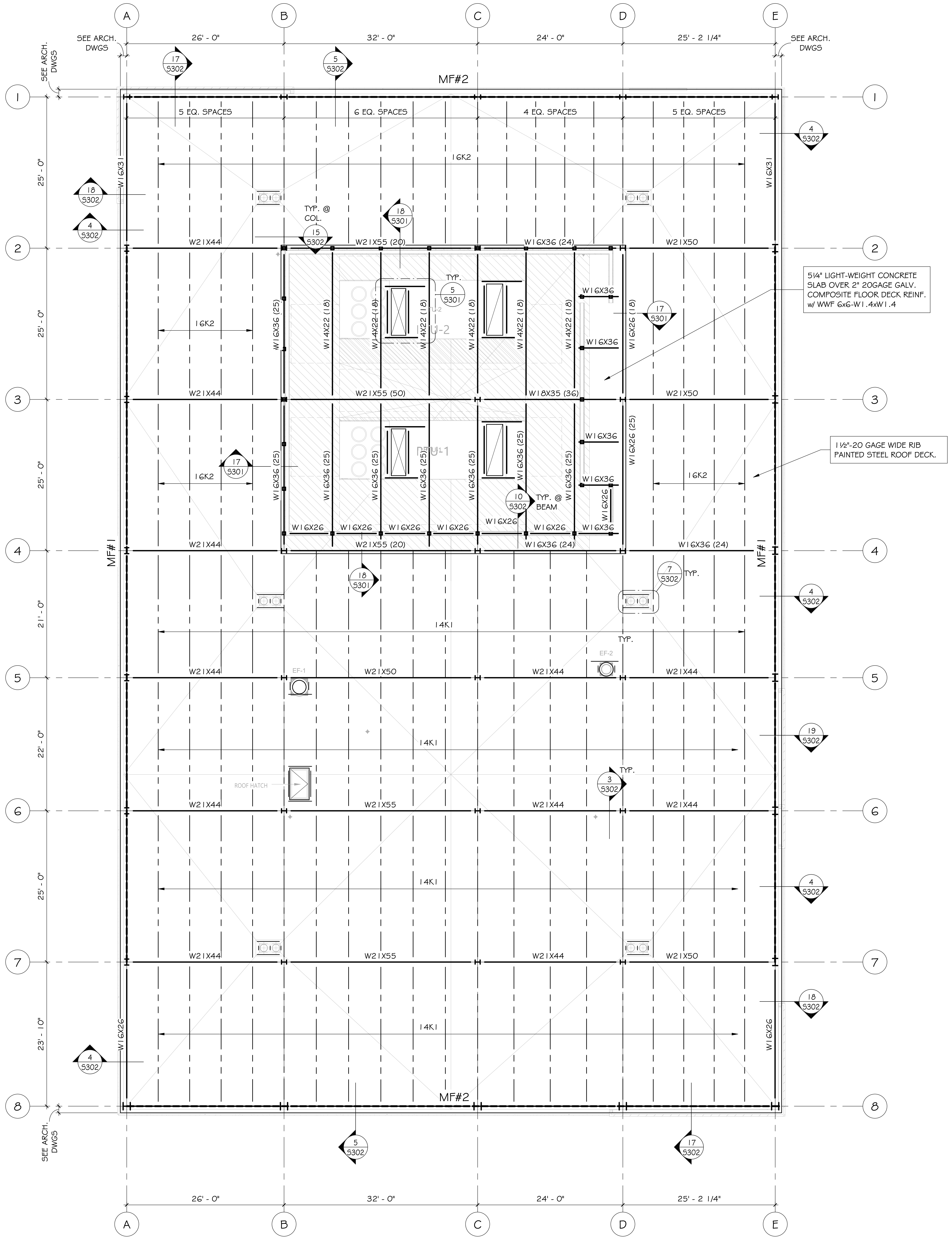

5¼" LIGHT-WEIGHT CONCRETE
SLAB OVER 2" 20GAGE GALV.
COMPOSITE FLOOR DECK REINF.
w/ WWF 6x6-W1.4xW1.4

1½"-20 GAGE WIDE RIB
PAINTED STEEL ROOF DECK.

NOTES:

1) JOIST BRG. ELEV. = SEE PLAN.
2) ALL ROOF JOIST TO HAVE 2 1/2" SEATS (U.N.O.)
3) HORIZONTAL BRIDGING REQUIRED FOR ALL BAR JOISTS PER SJI CODE OF STANDARD PRACTICE.
4) SEE ARCH. DWGS FOR LOCATION OF BEARING WALLS AND DIMENSIONS NOT SHOWN.
5) BAR JOIST SUPPORTING R.T.U. SHALL BE DESIGNED TO CARRY THE ADDITIONAL LOAD AS INDICATED ON PLAN.
6) SEE 6/S301 FOR ROOF TOP UNIT SUPPORT.
7) SEE 7/S301 FOR ROOF OPENING AND ROOF DRAIN SUPPORT.

ROOF FRAMING PLAN

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

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TITLE
ROOF FRAMING PLAN

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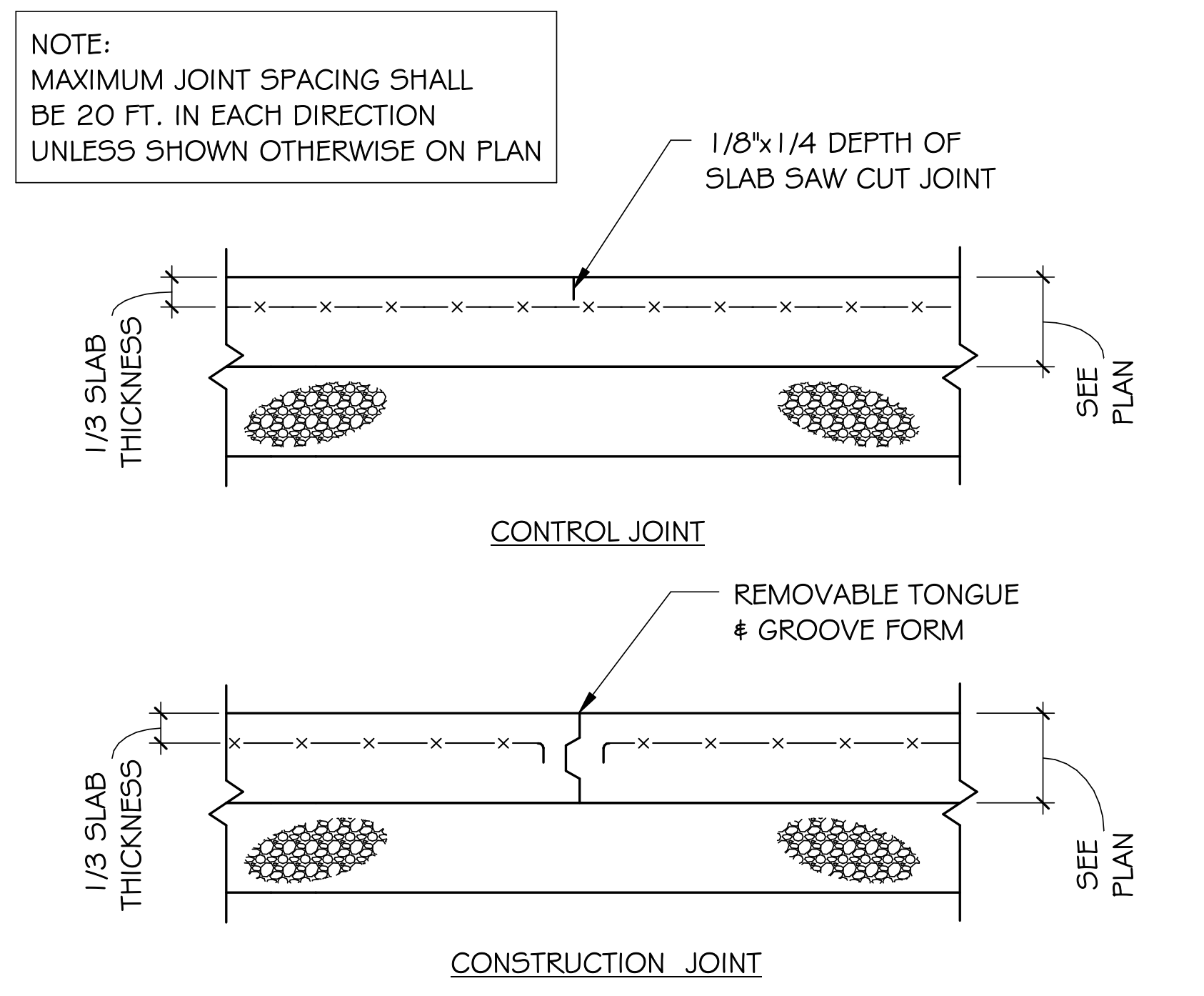
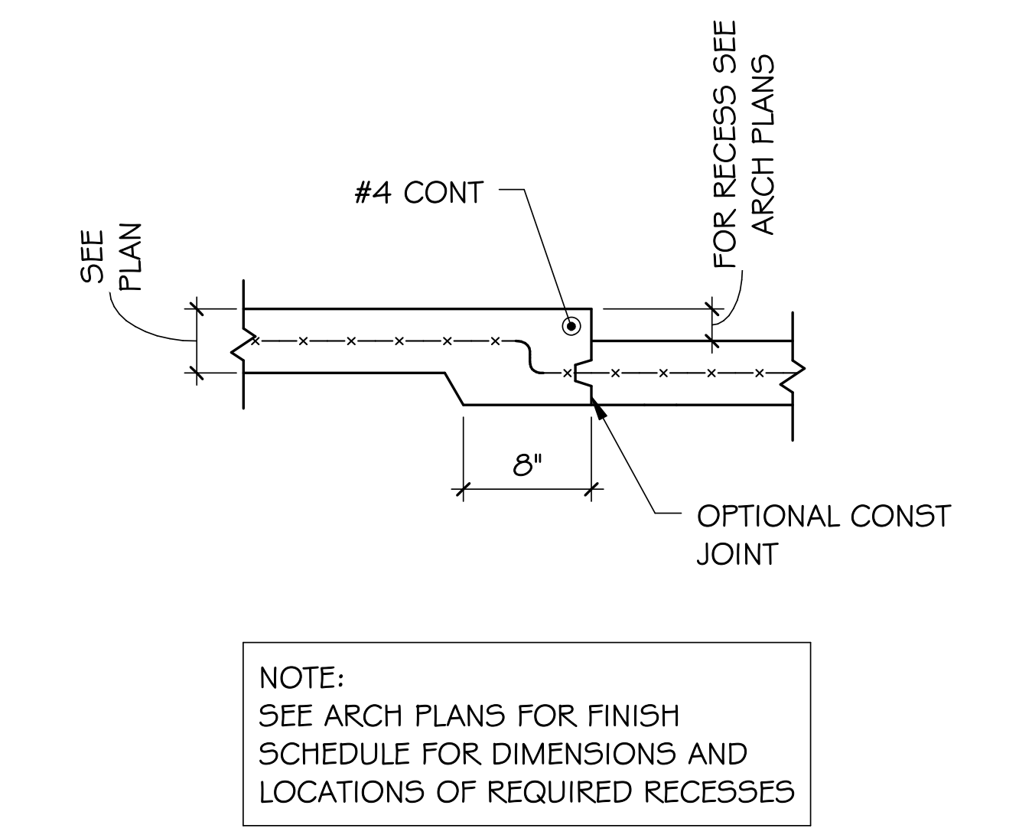
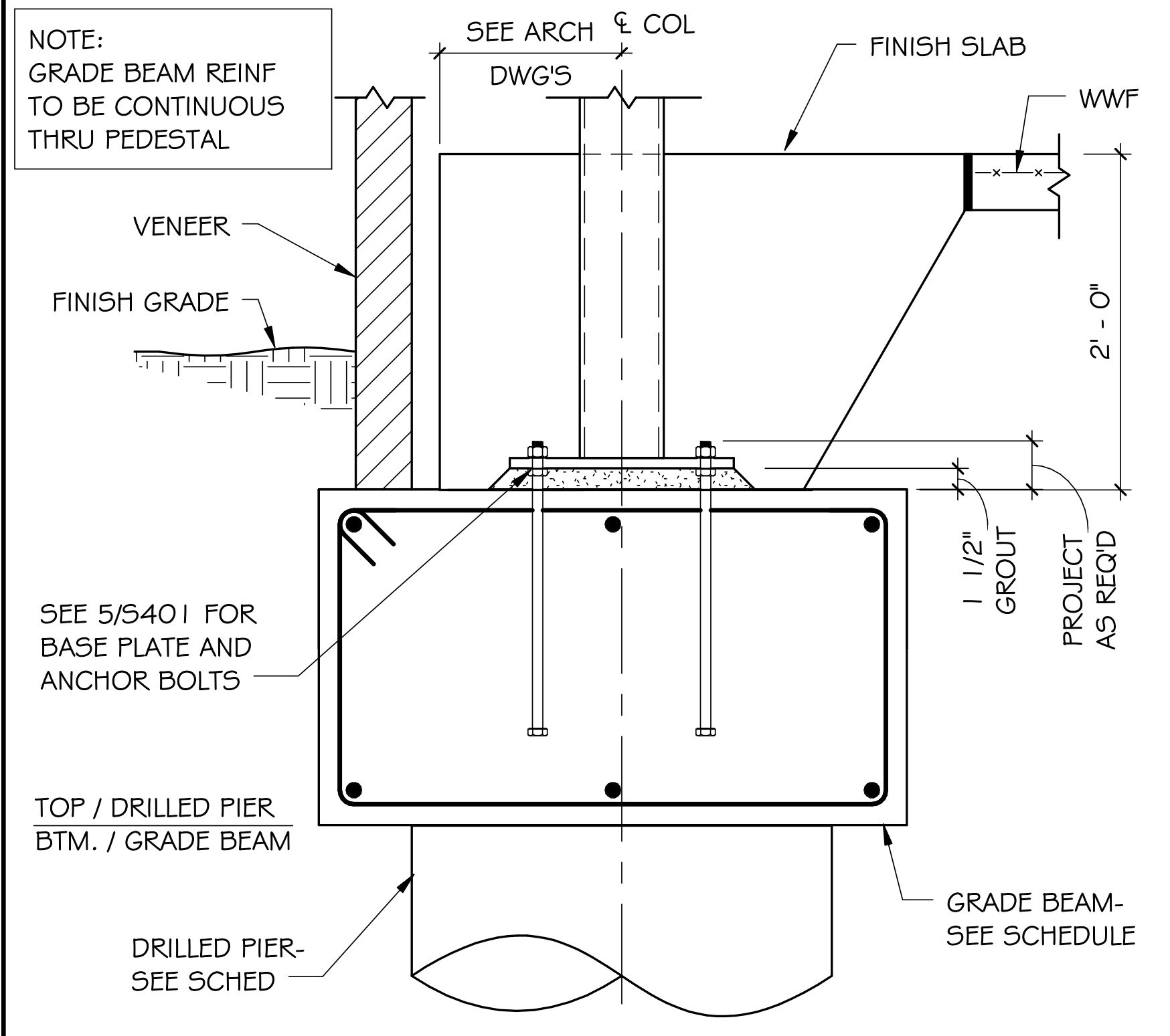

NOTE:
MAXIMUM JOINT SPACING SHALL BE 20 FT. IN EACH DIRECTION UNLESS SHOWN OTHERWISE ON PLAN
1/8"x1/4 DEPTH OF SLAB SAW CUT JOINT
1/3 SLAB THICKNESS
SEE PLAN
CONTROL JOINT
REMOVABLE TONGUE & GROOVE FORM
1/3 SLAB THICKNESS
SEE PLAN
CONSTRUCTION JOINT

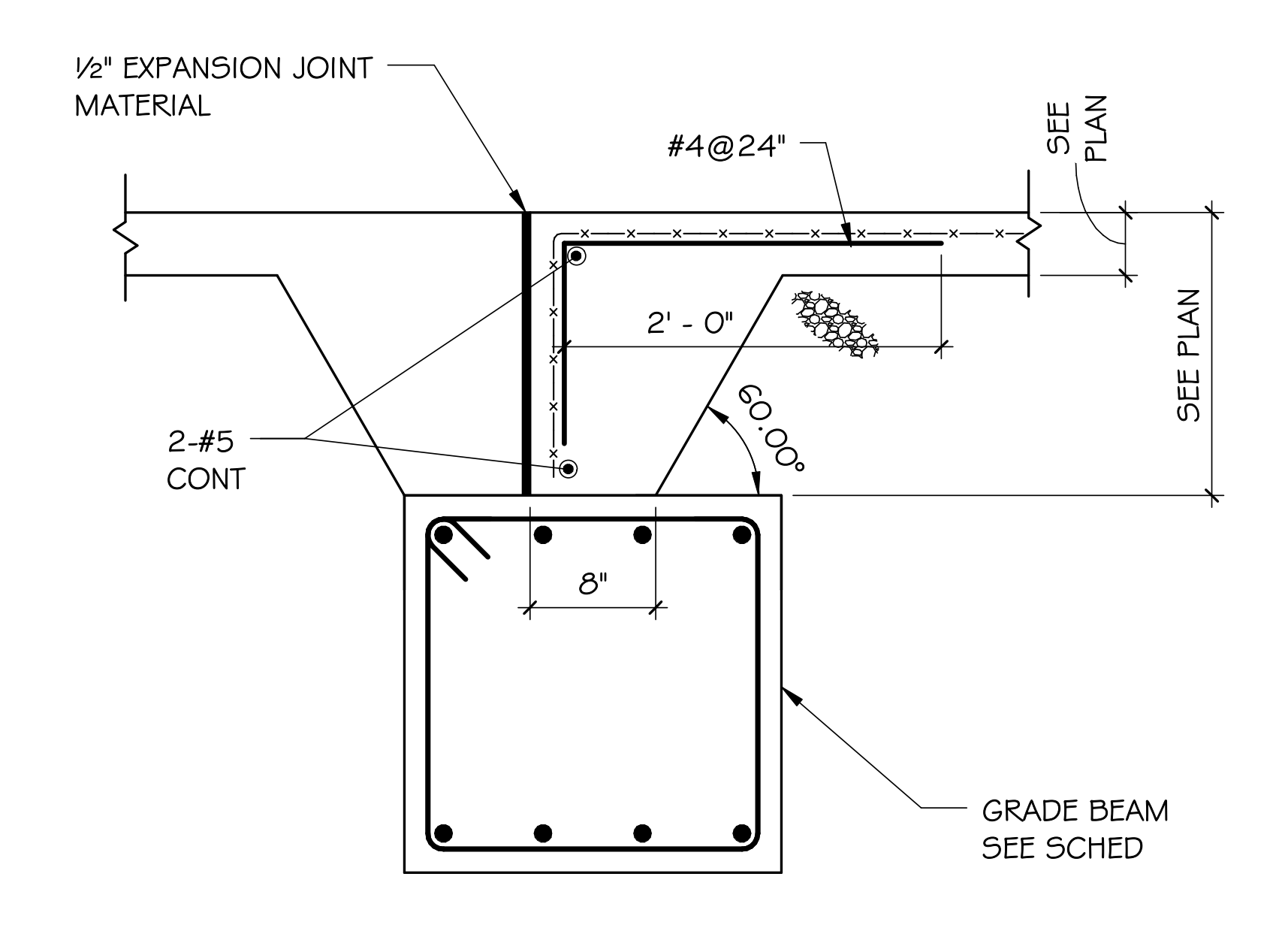
① SLAB ON GRADE JOINTS
SCALE: 1 1/2" = 1'-0"


SEE PLAN
#4 CONT
FOR RECESS SEE ARCH PLANS
8"
OPTIONAL CONST JOINT
NOTE:
SEE ARCH PLANS FOR FINISH SCHEDULE FOR DIMENSIONS AND LOCATIONS OF REQUIRED RECESSES

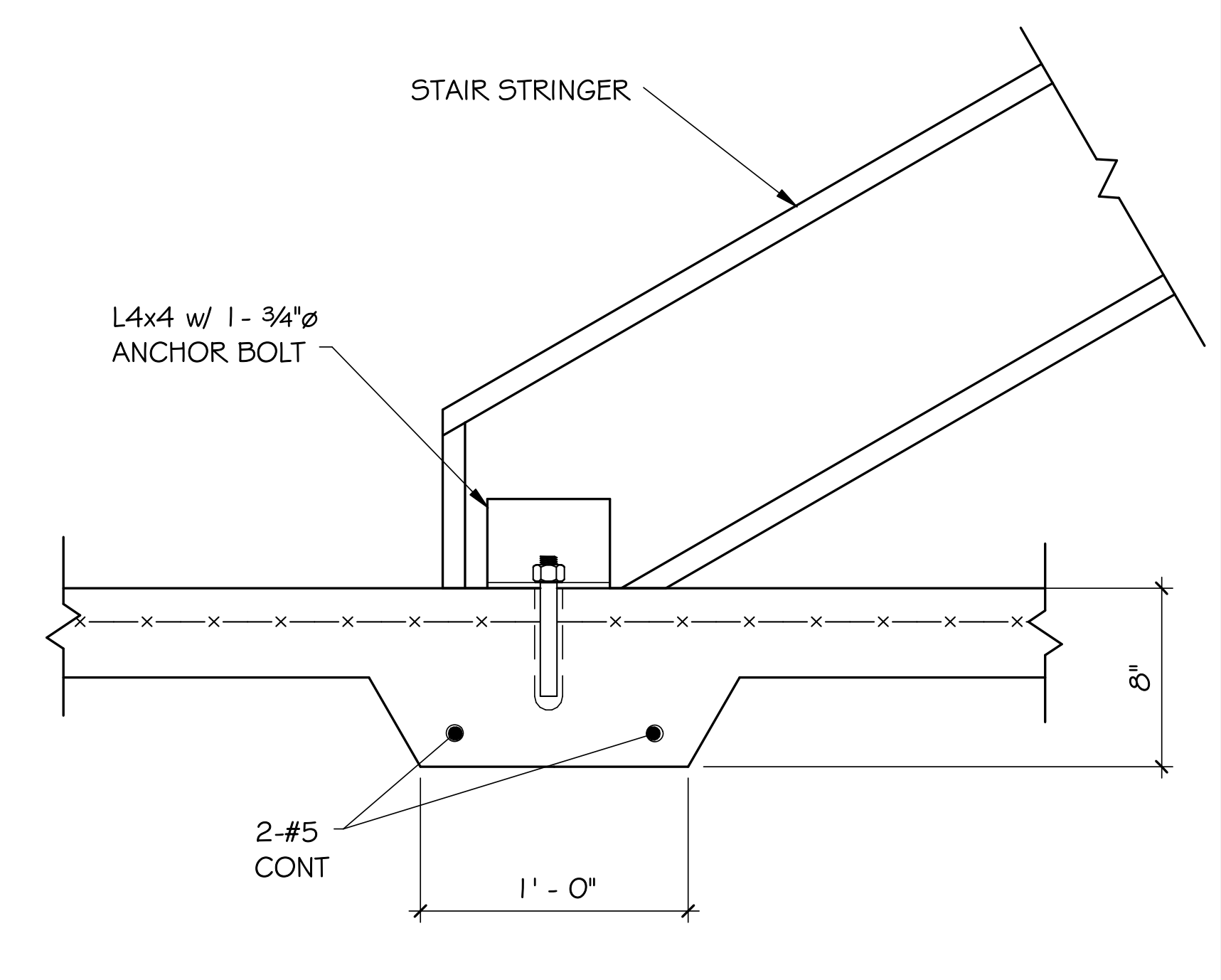
② TYP RECESSED SLAB
SCALE: 1" = 1'-0"



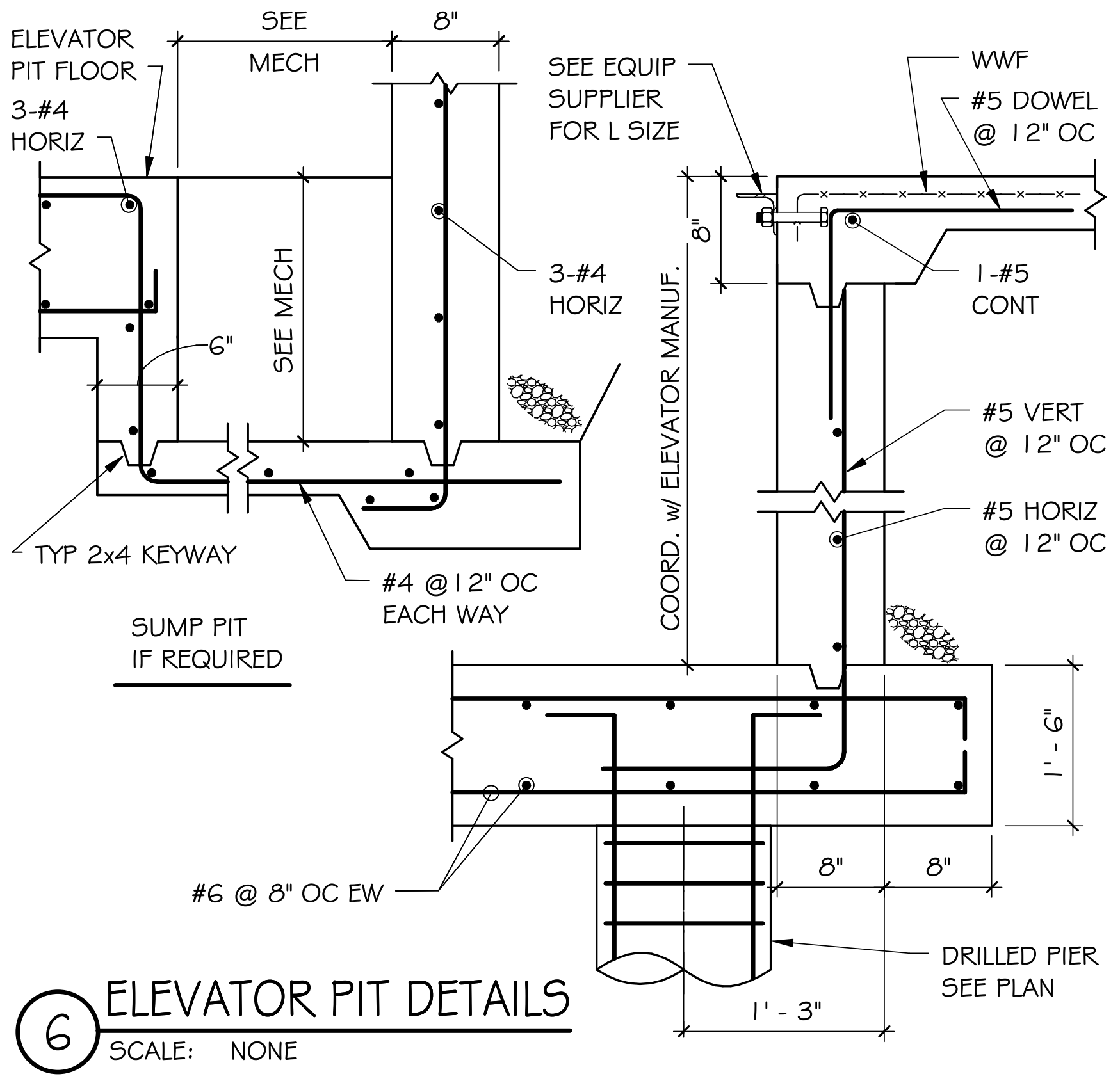
③ TYPICAL EXTERIOR COLUMN
SCALE: 1" = 1'-0"



④ EXTERIOR SECTION @ DOOR
SCALE: 1" = 1'-0"

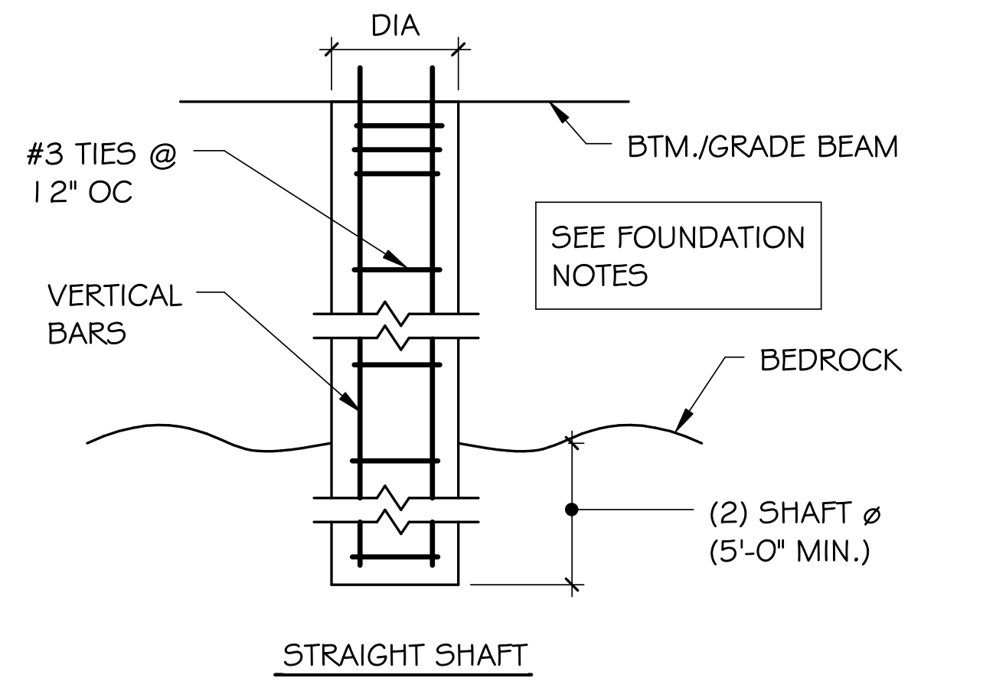


⑤ DETAIL THICKENED SLAB
SCALE: 1 1/2" = 1'-0"

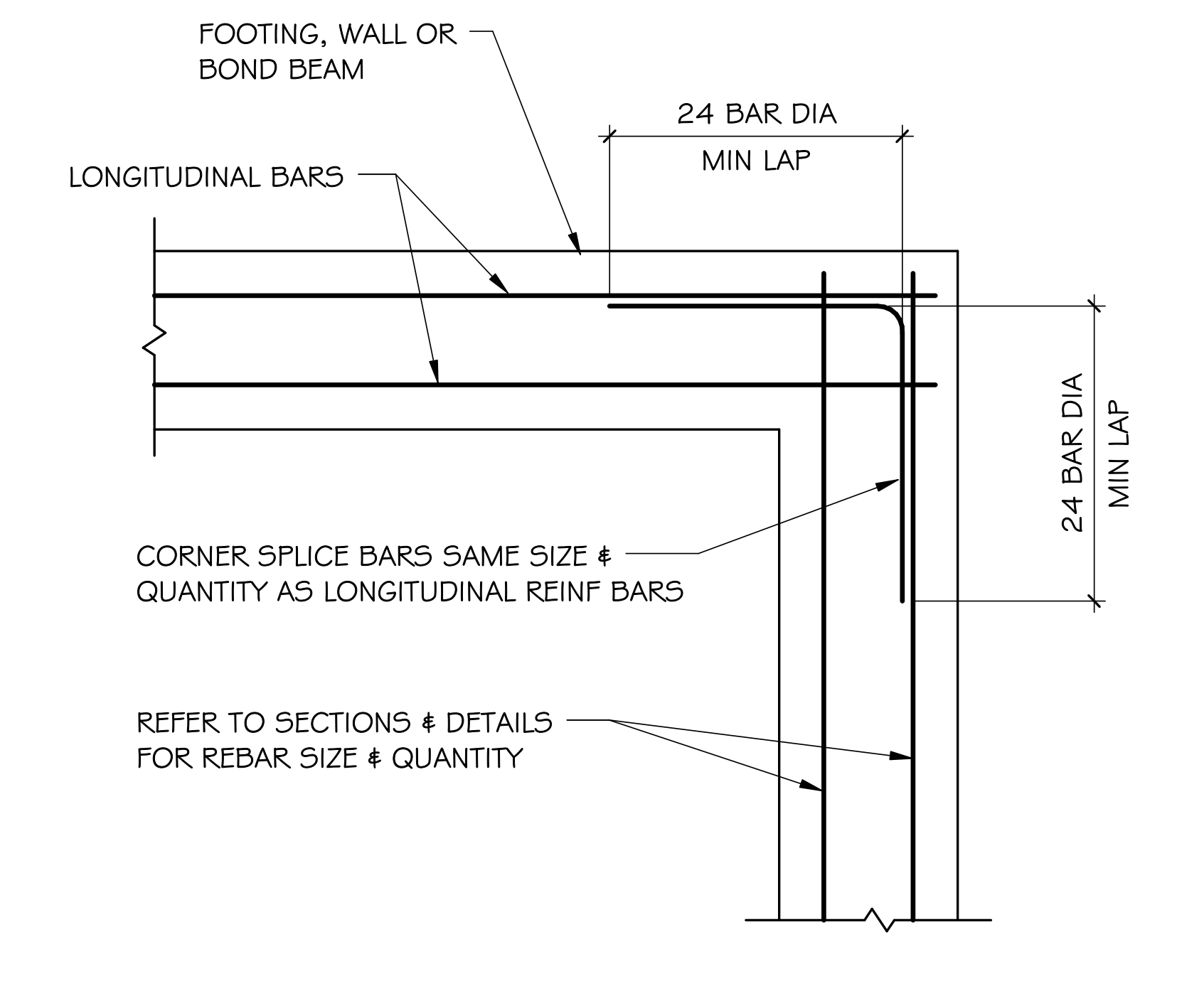


⑥ ELEVATOR PIT DETAILS
SCALE: NONE

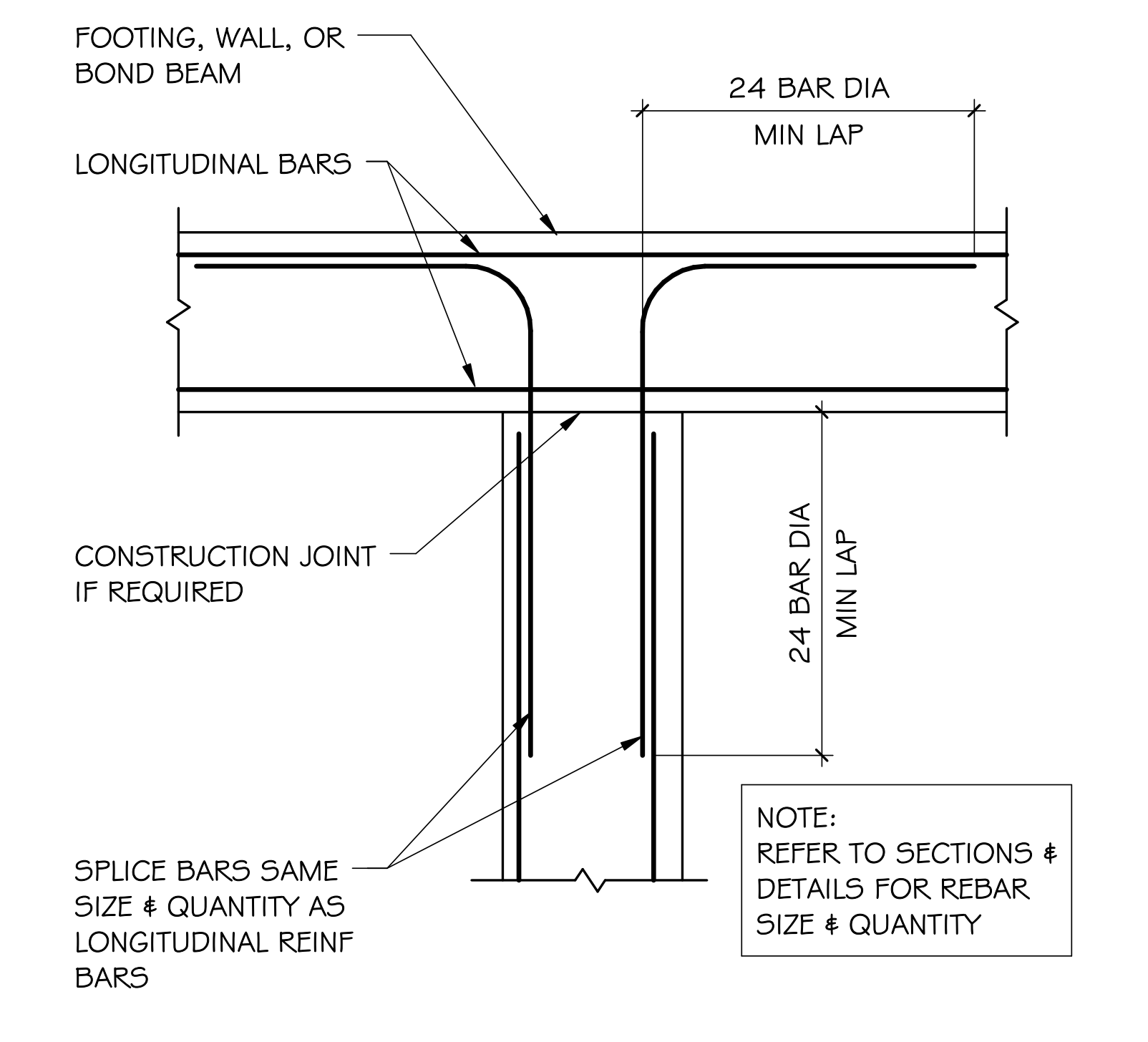
MARK	DIA	REINF	REMARKS
P1	30"	8-#9	STRAIGHT SHAFT
P2	36"	12-#9	STRAIGHT SHAFT
P3	42"	14-#9	STRAIGHT SHAFT
P4	48"	15-#10	STRAIGHT SHAFT



⑦ DRILLED PIER SCHEDULE
SCALE: 1" = 1'-0"


FOOTING, WALL OR BOND BEAM
24 BAR DIA MIN LAP
LONGITUDINAL BARS
24 BAR DIA MIN LAP
CORNER SPLICE BARS SAME SIZE & QUANTITY AS LONGITUDINAL REINF BARS
REFER TO SECTIONS & DETAILS FOR REBAR SIZE & QUANTITY

⑧ TYP CONTINUITY CORNER
SCALE: 1" = 1'-0"


FOOTING, WALL, OR BOND BEAM
24 BAR DIA MIN LAP
LONGITUDINAL BARS
CONSTRUCTION JOINT IF REQUIRED
24 BAR DIA MIN LAP
SPLICE BARS SAME SIZE & QUANTITY AS LONGITUDINAL REINF BARS
NOTE:
REFER TO SECTIONS & DETAILS FOR REBAR SIZE & QUANTITY

⑨ TYP CONTINUITY INT
SCALE: 1" = 1'-0"

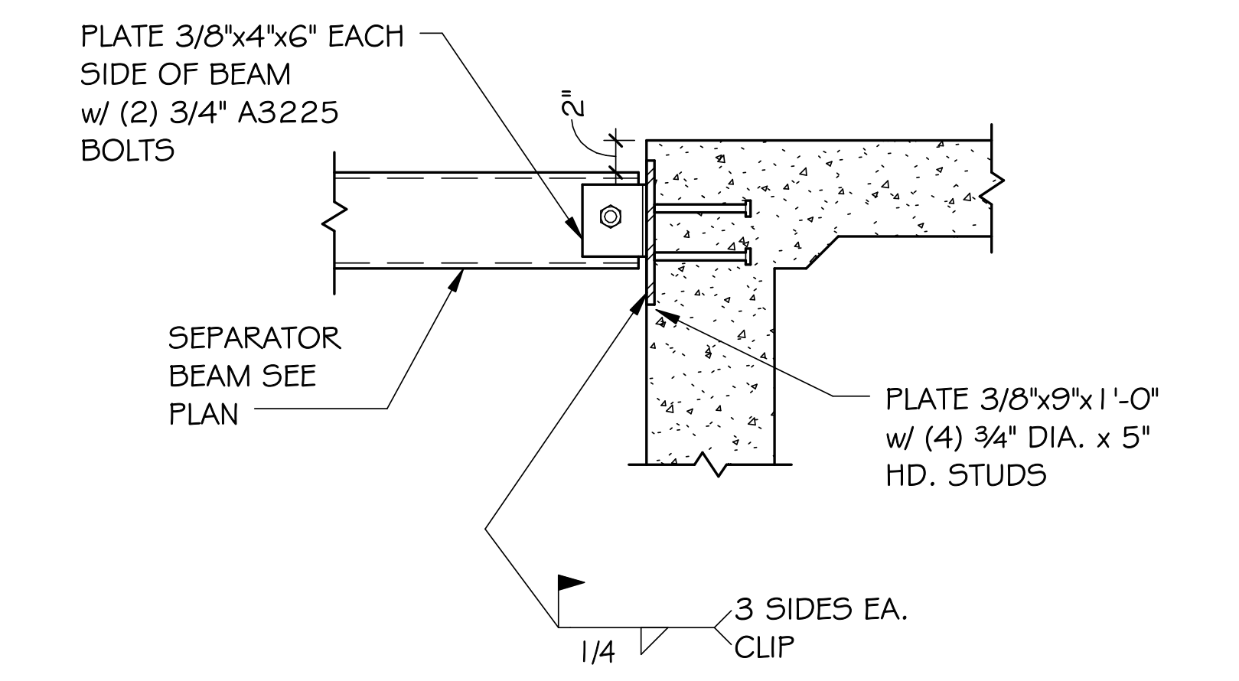
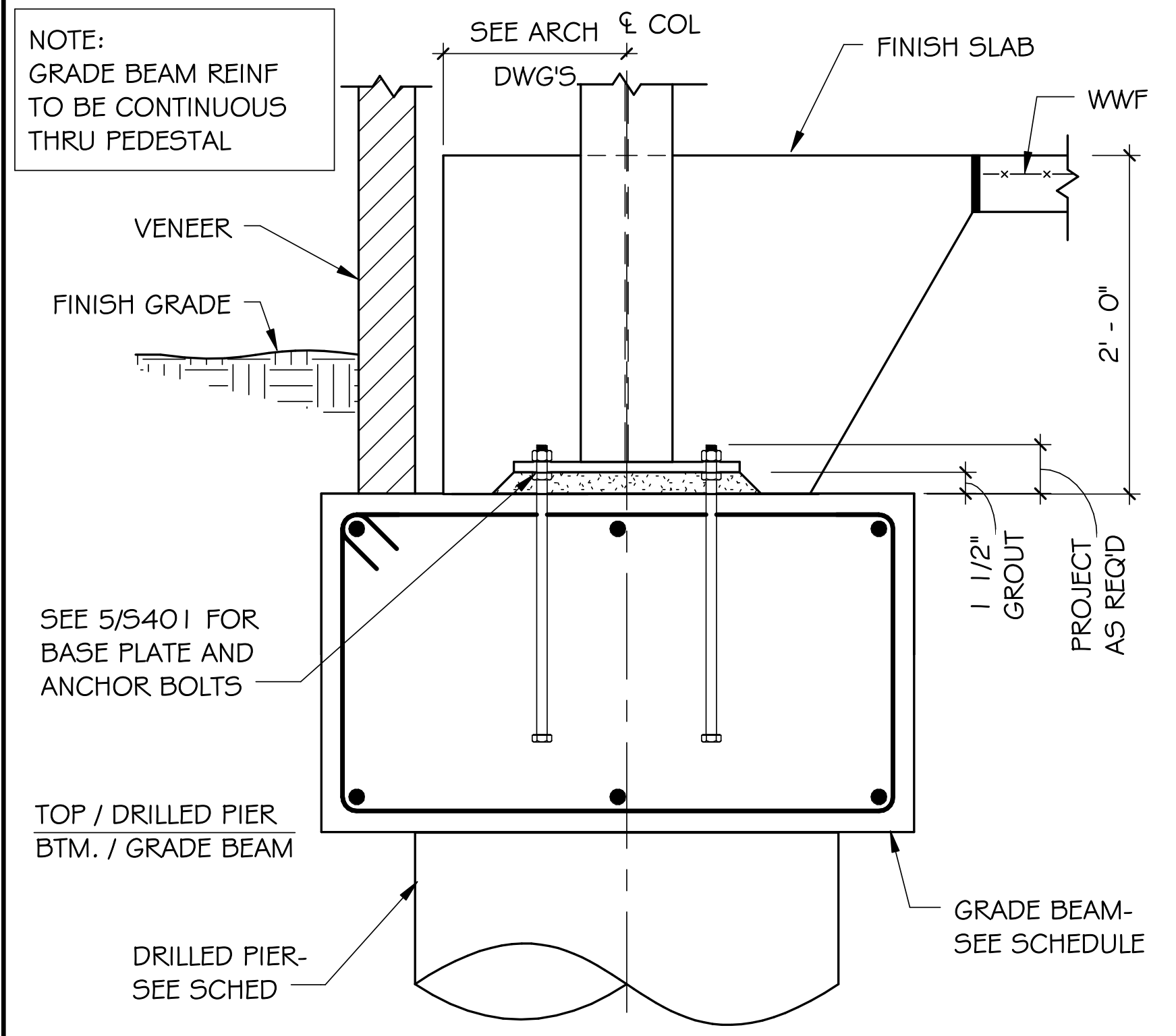


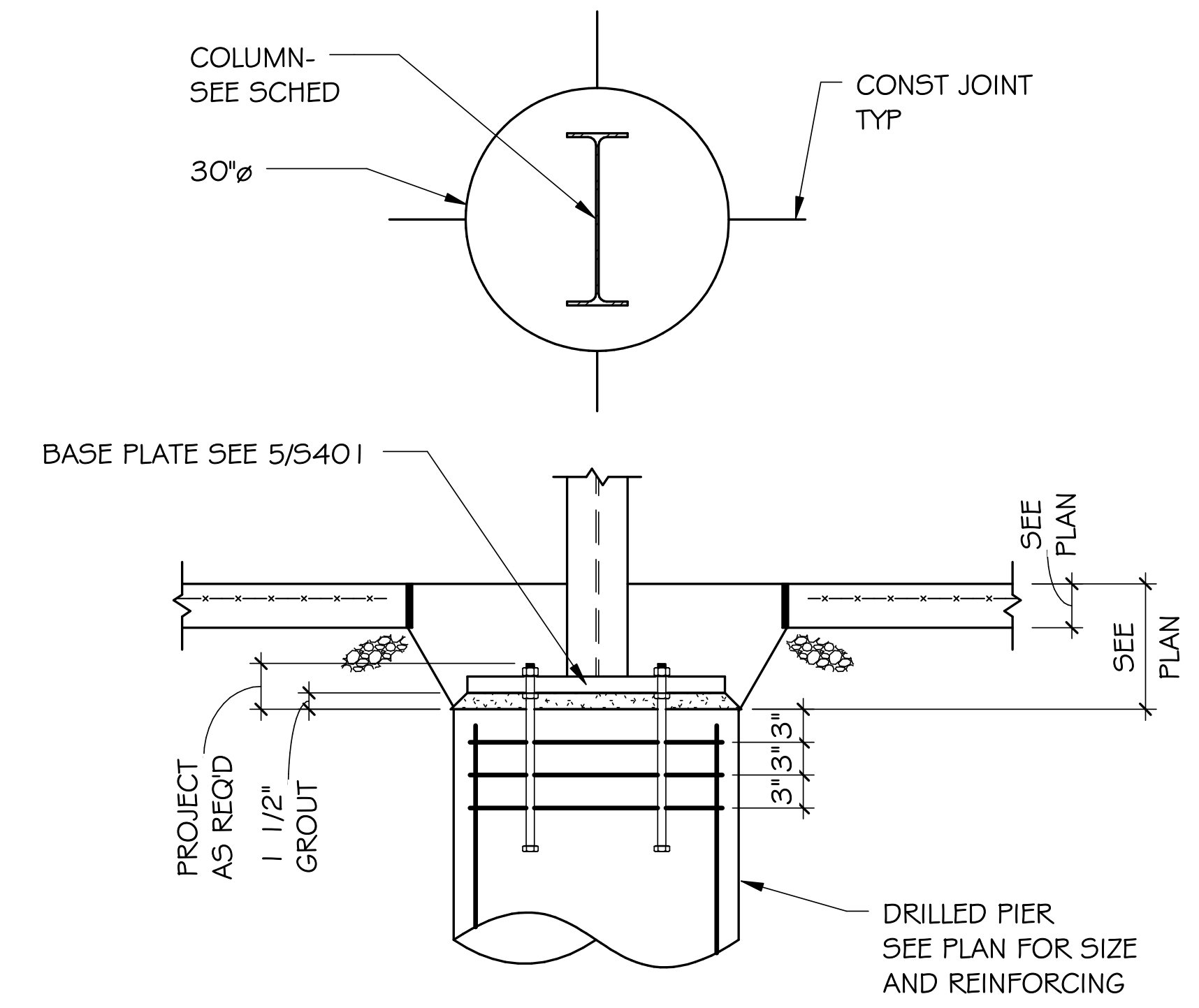
PLATE 3/8"x4"x6" EACH SIDE OF BEAM w/ (2) 3/4" A3225 BOLTS
2"
SEPARATOR BEAM SEE PLAN
PLATE 3/8"x9"x1'-0" w/ (4) ¾" DIA. x 5" HD. STUDS
1/4
3 SIDES EA. CLIP

⑩ SEPARATOR BEAM DETAIL
SCALE: 1" = 1'-0"

⑪
SCALE: 1 1/2" = 1'-0"



⑫ TYPICAL EXTERIOR COLUMN
SCALE: 1" = 1'-0"



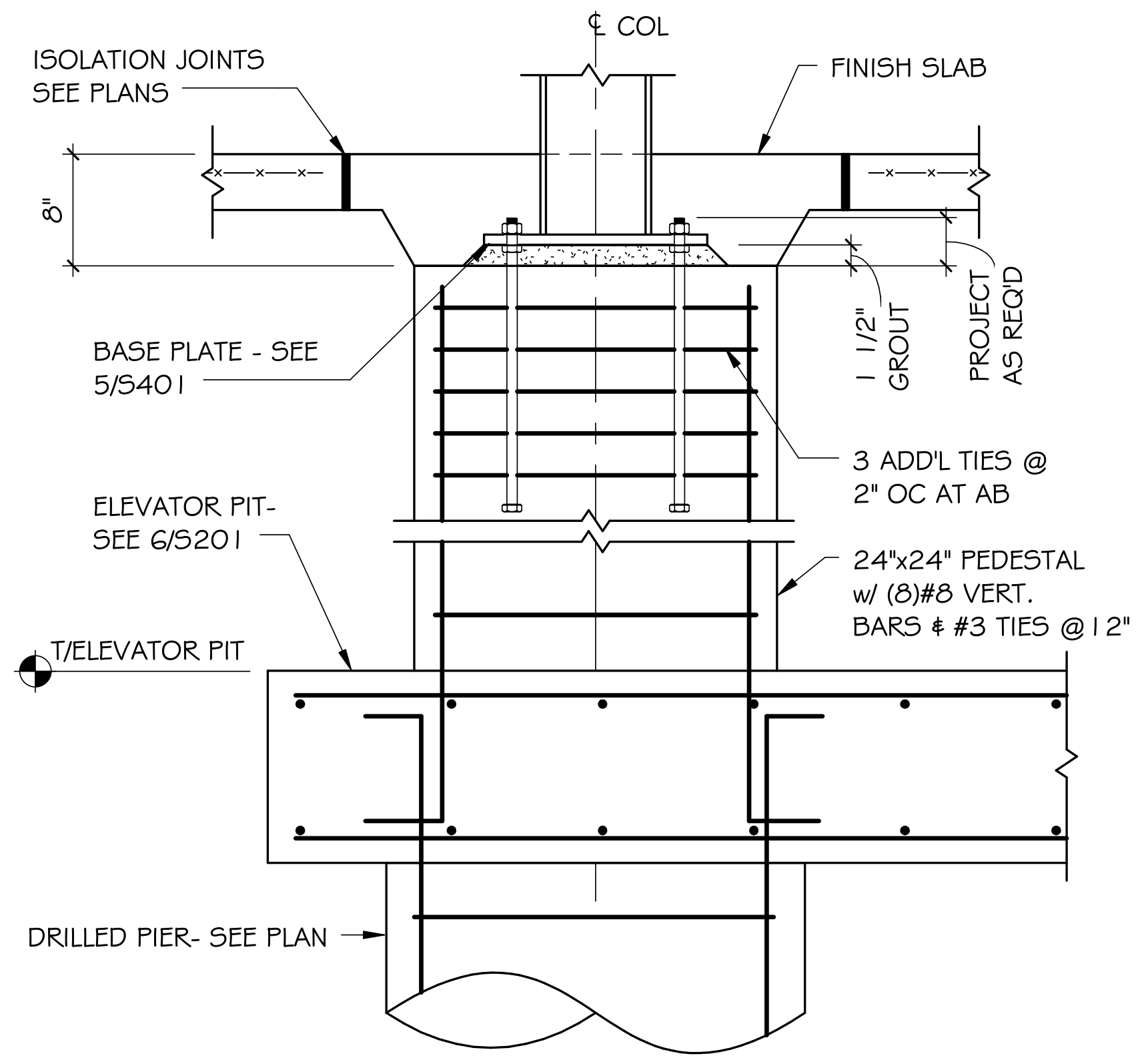
⑬ TYP INTERIOR COL
SCALE: 3/4" = 1'-0"

MARK	SIZE		REINFORCEMENT			NOTES
	"W"	"D"	TOP	BOTTOM	TIES	
GB1	48"	24"	6-#9	8-#9	#4@10"	

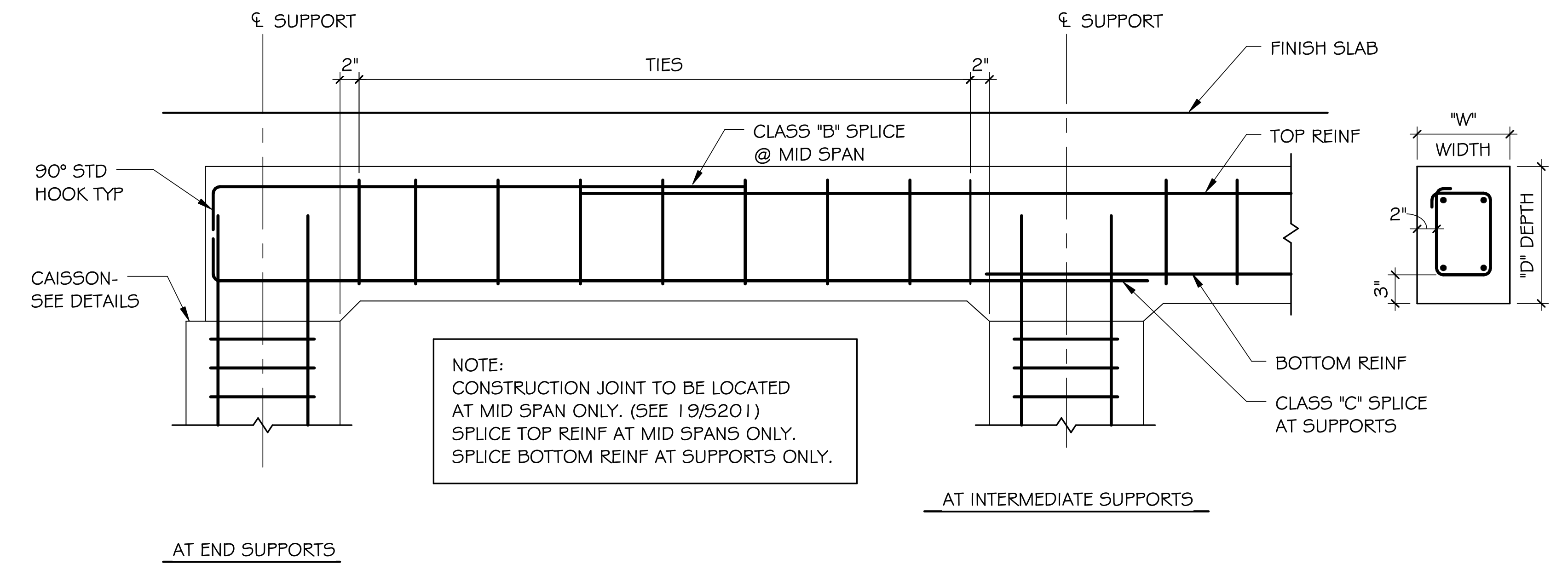
NOTES:

1. SEE 16/S201 FOR TYPICAL GRADE BEAM REINFORCEMENT DIAGRAM.
2. SEE 19/S201 FOR GRADE BEAM SPLICE DETAIL.

⑭ GRADE BEAM SCHEDULE
SCALE: 1" = 1'-0"

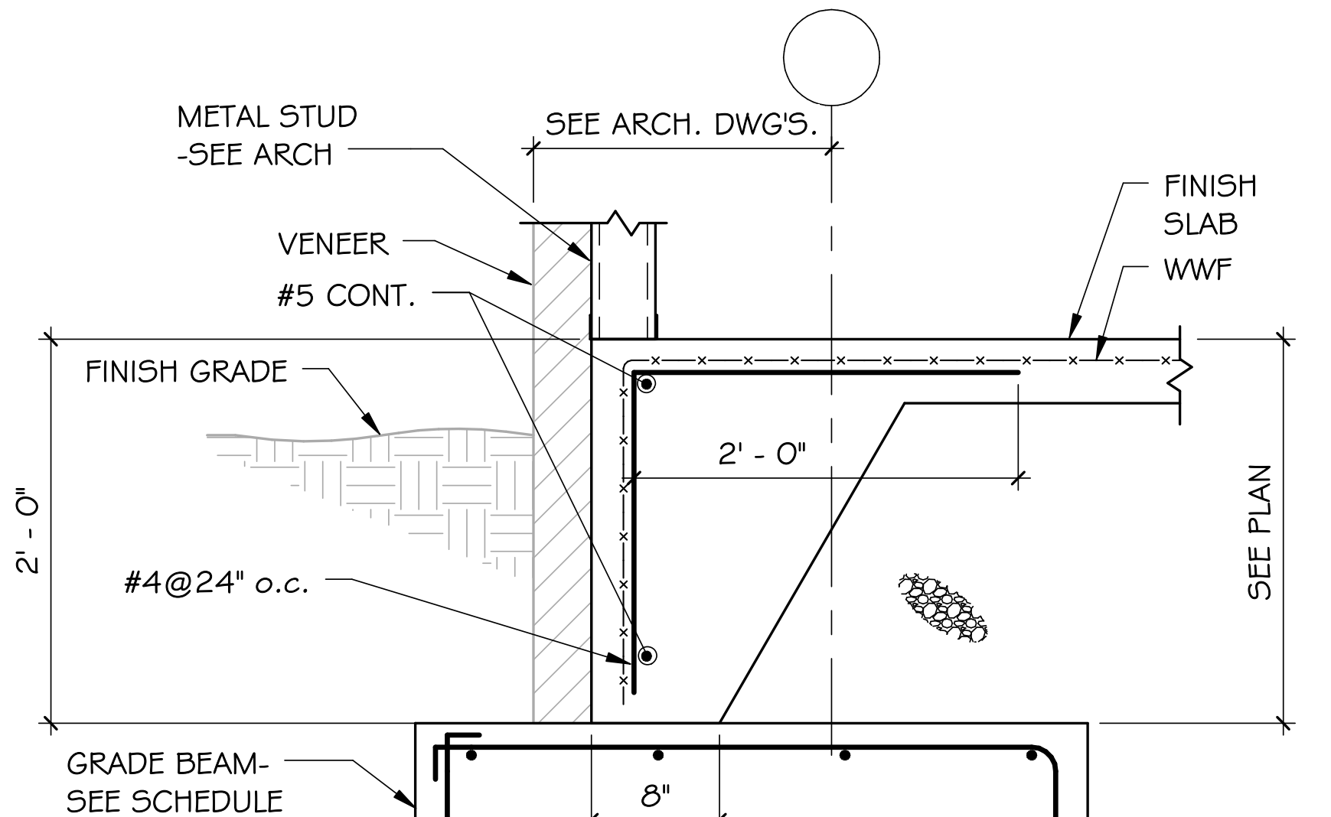


⑮ INTERIOR COLUMN
SCALE: 1" = 1'-0"

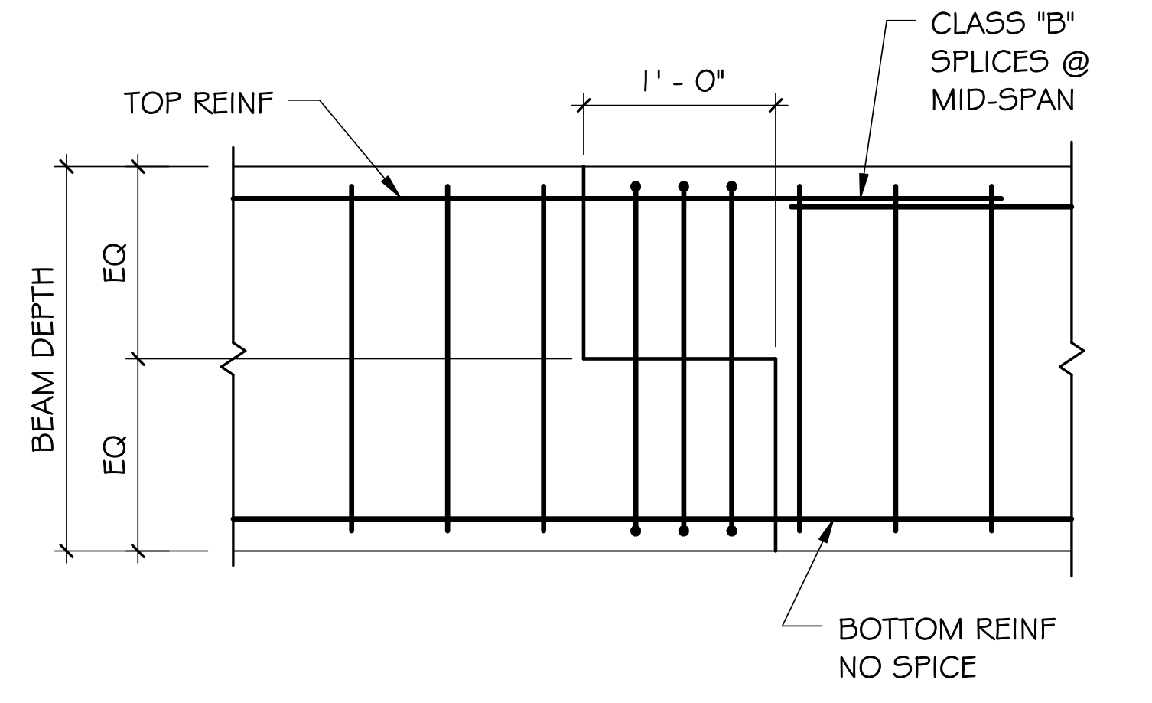


NOTE:
CONSTRUCTION JOINT TO BE LOCATED AT MID SPAN ONLY. (SEE 19/S201)
SPLICE TOP REINF AT MID SPANS ONLY.
SPLICE BOTTOM REINF AT SUPPORTS ONLY.

⑯ TYPICAL GRADE BEAM REINFORCEMENT DIAGRAM
SCALE: 1" = 1'-0"



⑱ TYPICAL EXTERIOR EDGE SLAB
SCALE: 1" = 1'-0"



SPLICE @ MID-SPAN ONLY

⑲ GRADE BEAM SPLICE OR CONSTRUCTION JOINT
SCALE: 1" = 1'-0"

⑳ SECTION
SCALE: 1" = 1'-0"

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CLIENT PROJECT NUMBER: 123456789

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2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DANIEL K. BORSOS
NUMBER PE-024916
2-15-19

DATES OF ISSUANCE
02/15/19
△

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STRUCTURAL ENGINEERS, P.C.
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Nashville, Tennessee 37204
(615) 781-8199
www.emcnashville.com

17153_R16

TITLE
SECTIONS AND DETAILS

SHEET
S201

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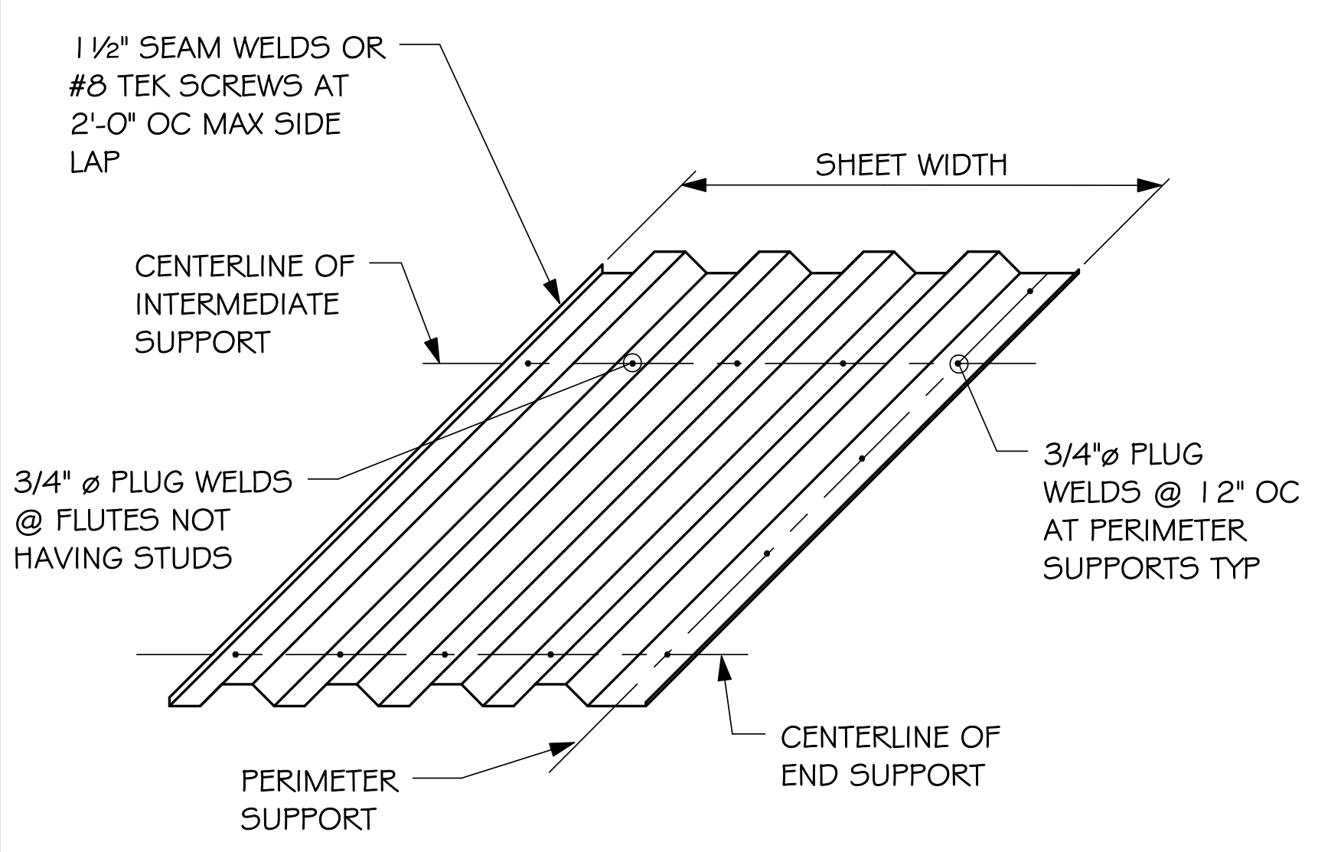
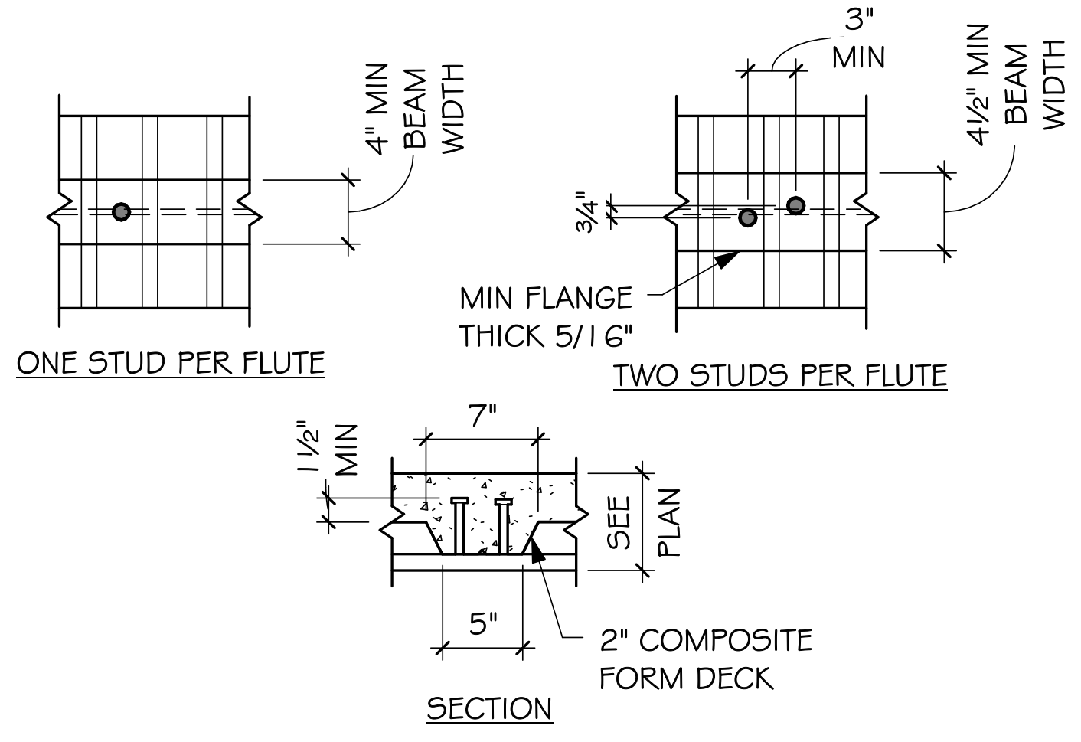
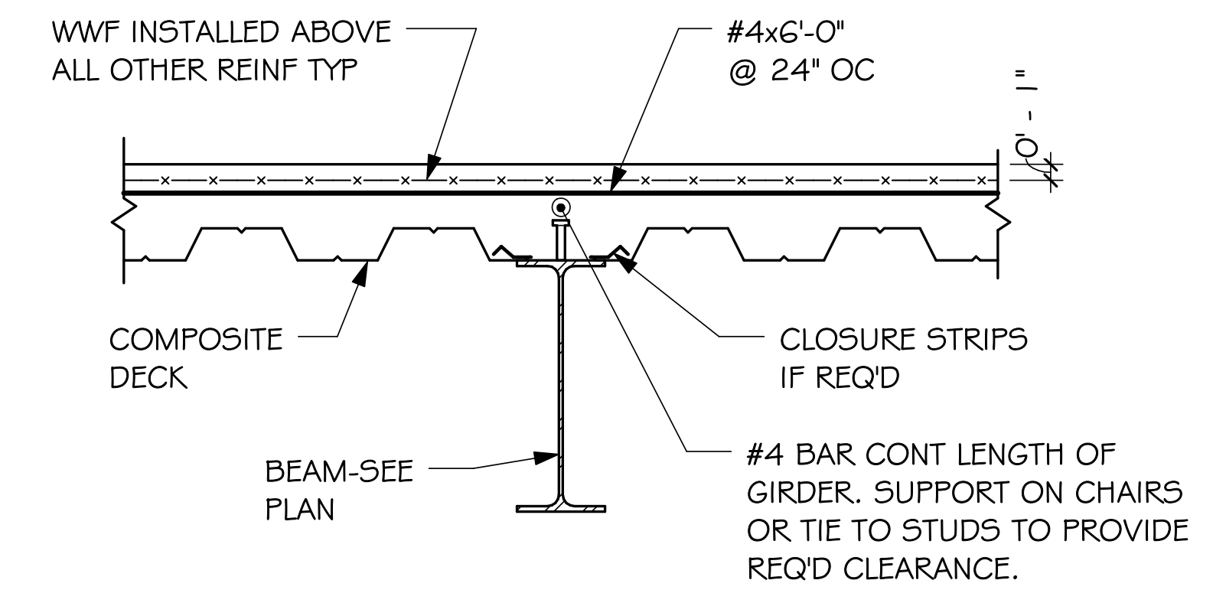

1½" SEAM WELDS OR #8 TEK SCREWS AT 2'-0" OC MAX SIDE LAP
SHEET WIDTH
CENTERLINE OF INTERMEDIATE SUPPORT
3/4" ø PLUG WELDS @ FLUTES NOT HAVING STUDS
3/4"ø PLUG WELDS @ 12" OC AT PERIMETER SUPPORTS TYP
PERIMETER SUPPORT
CENTERLINE OF END SUPPORT

① COMPOSITE DECK ATTACH.
SCALE: 1" = 1'-0"

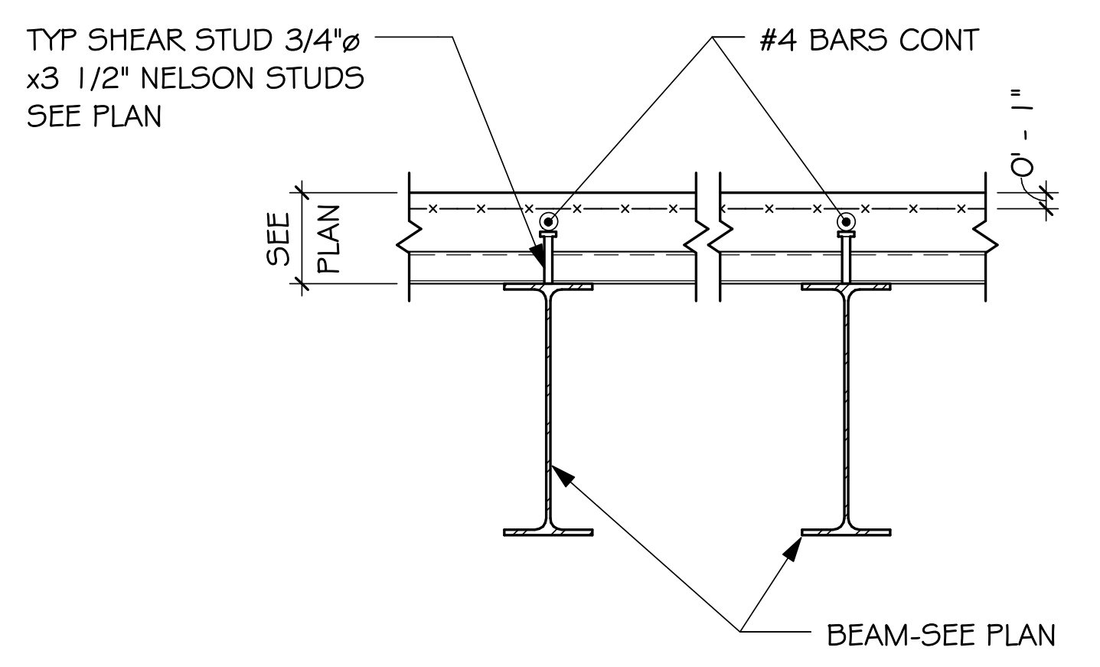
1. EQUALLY SPACE STUDS IN ONE ROW ON BEAM CENTERLINE. IF MORE STUDS ARE REQUIRED PROVIDE DOUBLE STUDS. STARTING AT EACH END AND WORKING TOWARD THE CENTER.
2. MAXIMUM STUD SPACING = 36" OC.
3. PLACE STUDS AT 4 1/2" OC MINIMUM OR ONE STUD OR PAIR OF STUDS IN EACH FLUTE WHEN DECK IS PERPENDICULAR TO BEAM.
4. PLACE STUDS AT 3" OC MINIMUM SIDE BY SIDE WHEN MULTIPLE STUDS OCCUR IN ONE FLUTE.



② DETAIL - STUD PLACEMENT
SCALE: NONE


WWF INSTALLED ABOVE ALL OTHER REINF TYP
#4x6'-0" @ 24" OC
0'-1"
COMPOSITE DECK
BEAM-SEE PLAN
CLOSURE STRIPS IF REQ'D
#4 BAR CONT LENGTH OF GIRDER. SUPPORT ON CHAIRS OR TIE TO STUDS TO PROVIDE REQ'D CLEARANCE.

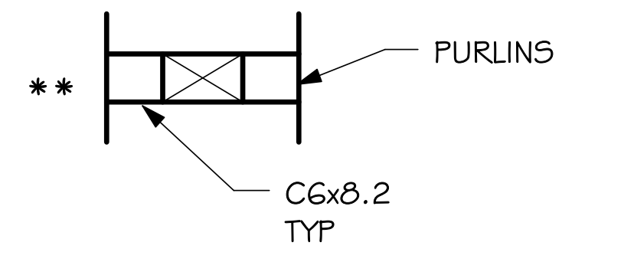
③ TYP COMPOSITE SLAB (TYP @ ALL GIRDERS)
SCALE: 1" = 1'-0"



④ TYP COMPOSITE SLAB
SCALE: 1" = 1'-0"

L *	REINFORCEMENT
TO 10"	FORM OPENING TO EXCLUDE CONCRETE AND CUT DECK AFTER CONC HAS ATTAINED 75% OF ITS DESIGN STRENGTH. NO REBARS
10" TO 16"	2 - #5 SEE 10/S302
16" TO 24"	2 - #6 SEE 10/S302
24" TO 30"	2 - #7 SEE 10/S302
OVER 30"	REQUIRES STRUCT. STEEL FRAME **

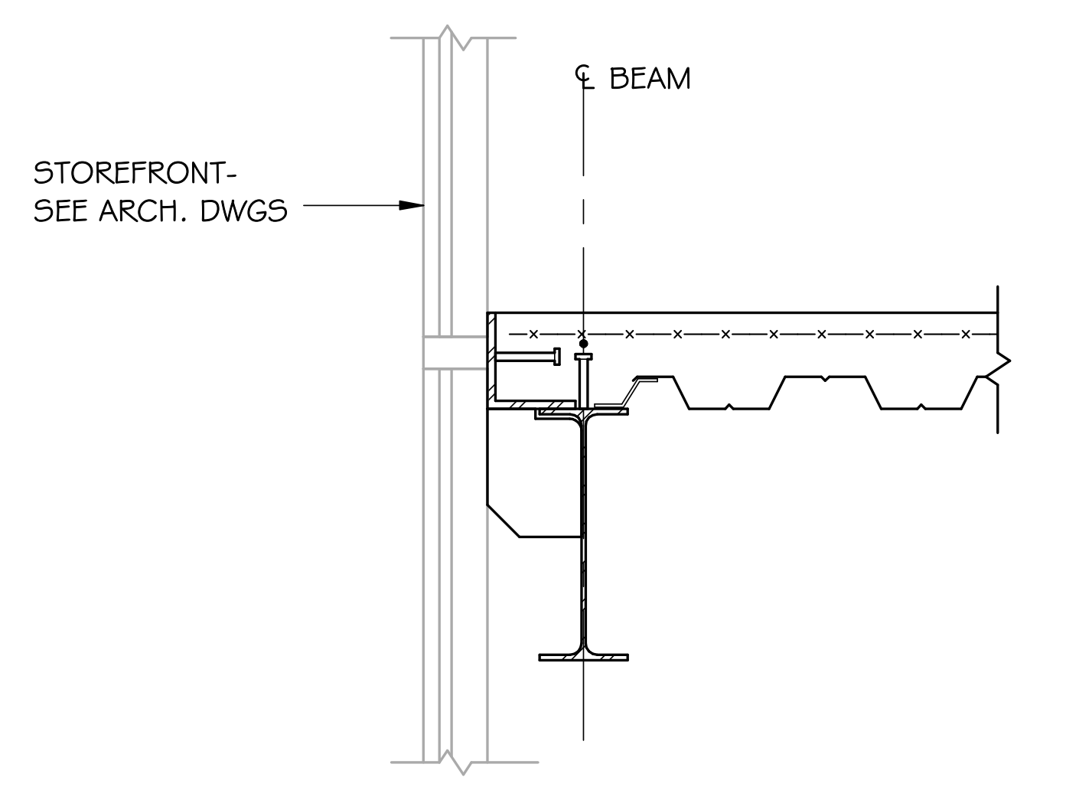
* L IS MEASURED AT RIGHT ANGLE TO FLOOR DECK SPAN



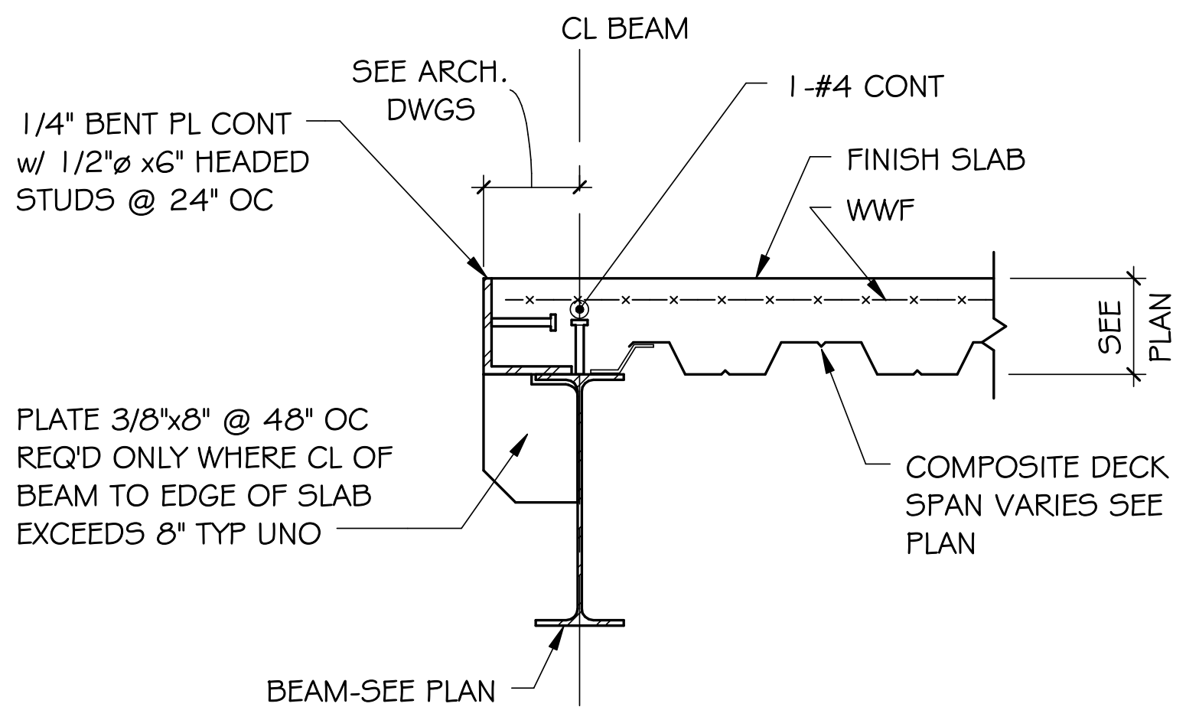
TYP @ COMPOSITE FLOOR SLAB OPENING UNO

⑤ FLOOR OPENING REINF SCHEDULE
SCALE: NONE

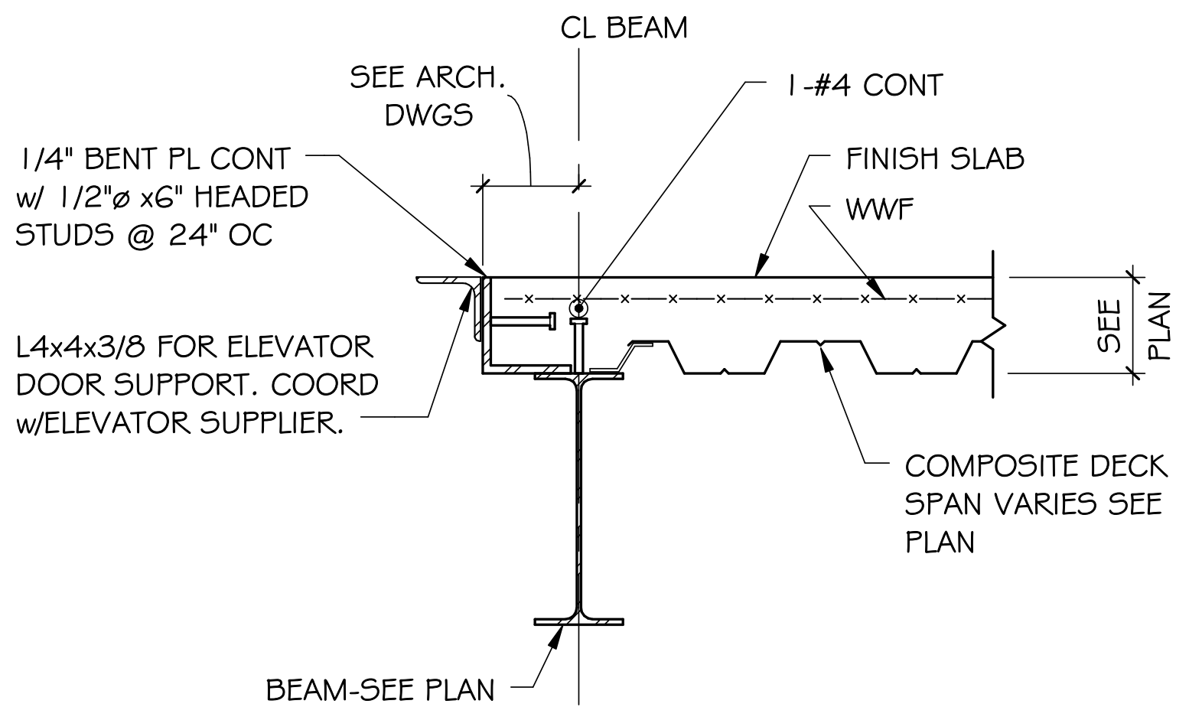
SEE 7/S302 FOR INFORMATION NOT SHOWN



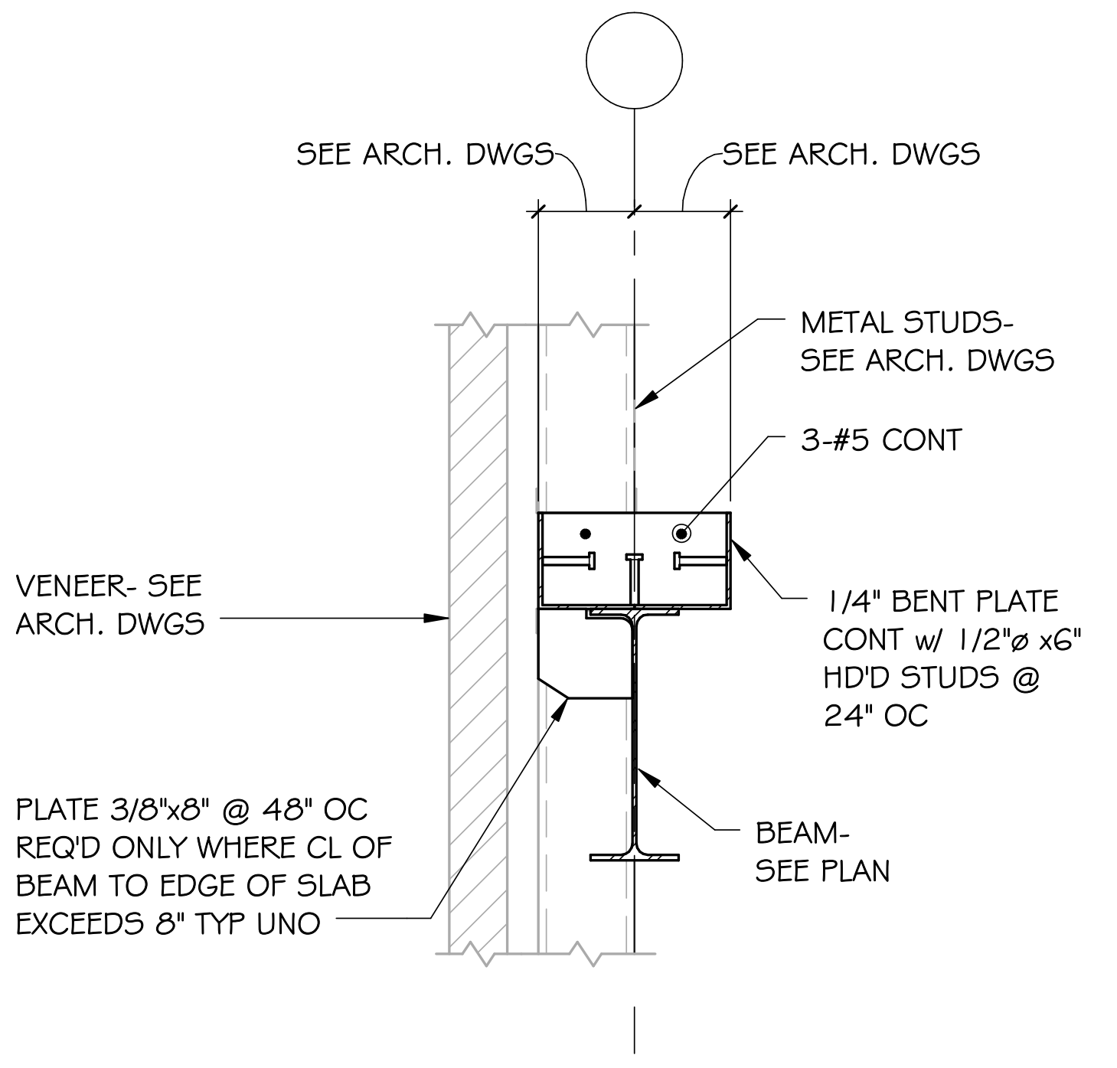
⑥ TYP EDGE OF SLAB
SCALE: 1" = 1'-0"


CL BEAM
SEE ARCH. DWGS
1/4" BENT PL CONT w/ 1/2"ø x6" HEADED STUDS @ 24" OC
1-#4 CONT
FINISH SLAB
WWF
SEE PLAN
PLATE 3/8"x8" @ 48" OC REQ'D ONLY WHERE CL OF BEAM TO EDGE OF SLAB EXCEEDS 8" TYP UNO
COMPOSITE DECK SPAN VARIES SEE PLAN
BEAM-SEE PLAN

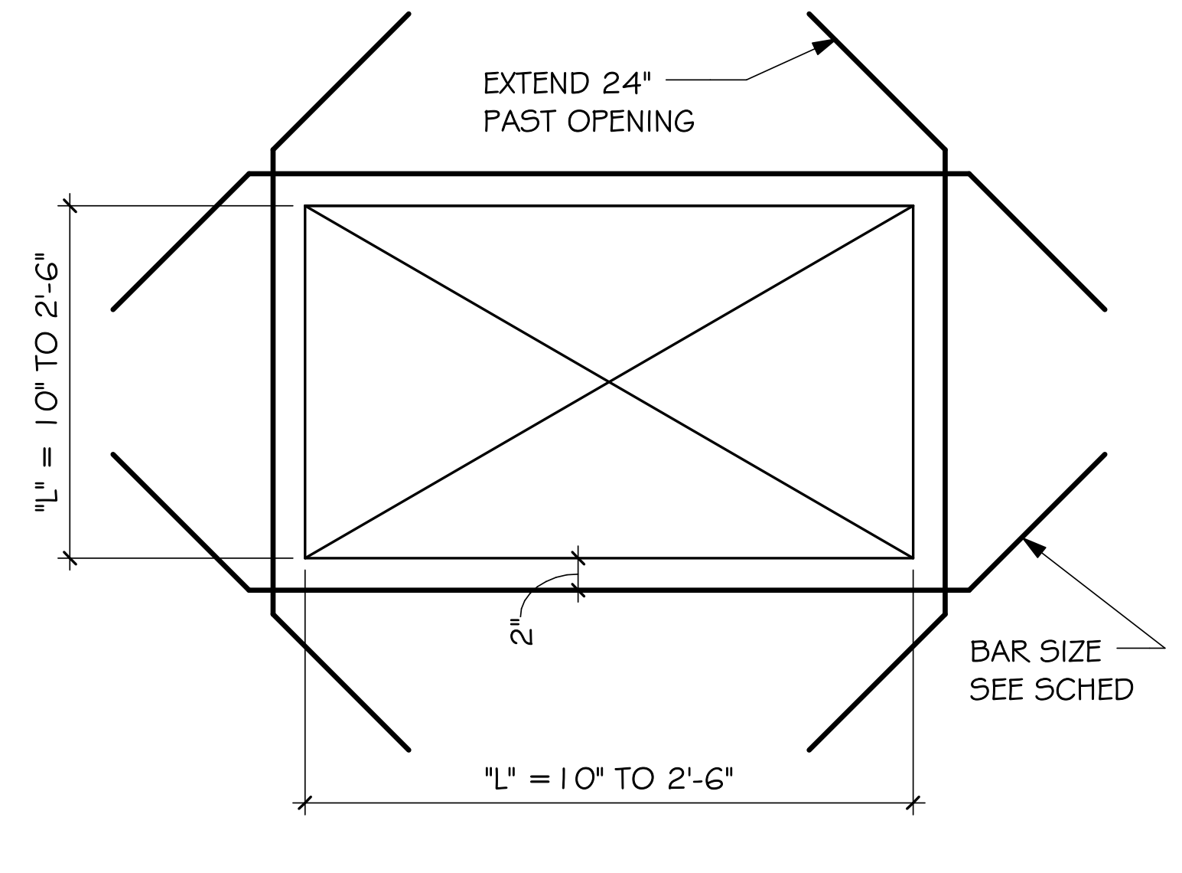
⑦ TYP EDGE OF SLAB
SCALE: 1" = 1'-0"


SEE ARCH. DWGS
CL BEAM
1/4" BENT PL CONT w/ 1/2"ø x6" HEADED STUDS @ 24" OC
1-#4 CONT
FINISH SLAB
WWF
L4x4x3/8 FOR ELEVATOR DOOR SUPPORT. COORD w/ELEVATOR SUPPLIER.
SEE PLAN
COMPOSITE DECK SPAN VARIES SEE PLAN
BEAM-SEE PLAN

⑧ EDGE OF SLAB @ ELEVATOR
SCALE: 1" = 1'-0"


SEE ARCH. DWGS
SEE ARCH. DWGS
METAL STUDS- SEE ARCH. DWGS
3-#5 CONT
VENEER- SEE ARCH. DWGS
1/4" BENT PLATE CONT w/ 1/2"ø x6" HD'D STUDS @ 24" OC
PLATE 3/8"x8" @ 48" OC REQ'D ONLY WHERE CL OF BEAM TO EDGE OF SLAB EXCEEDS 8" TYP UNO
BEAM- SEE PLAN

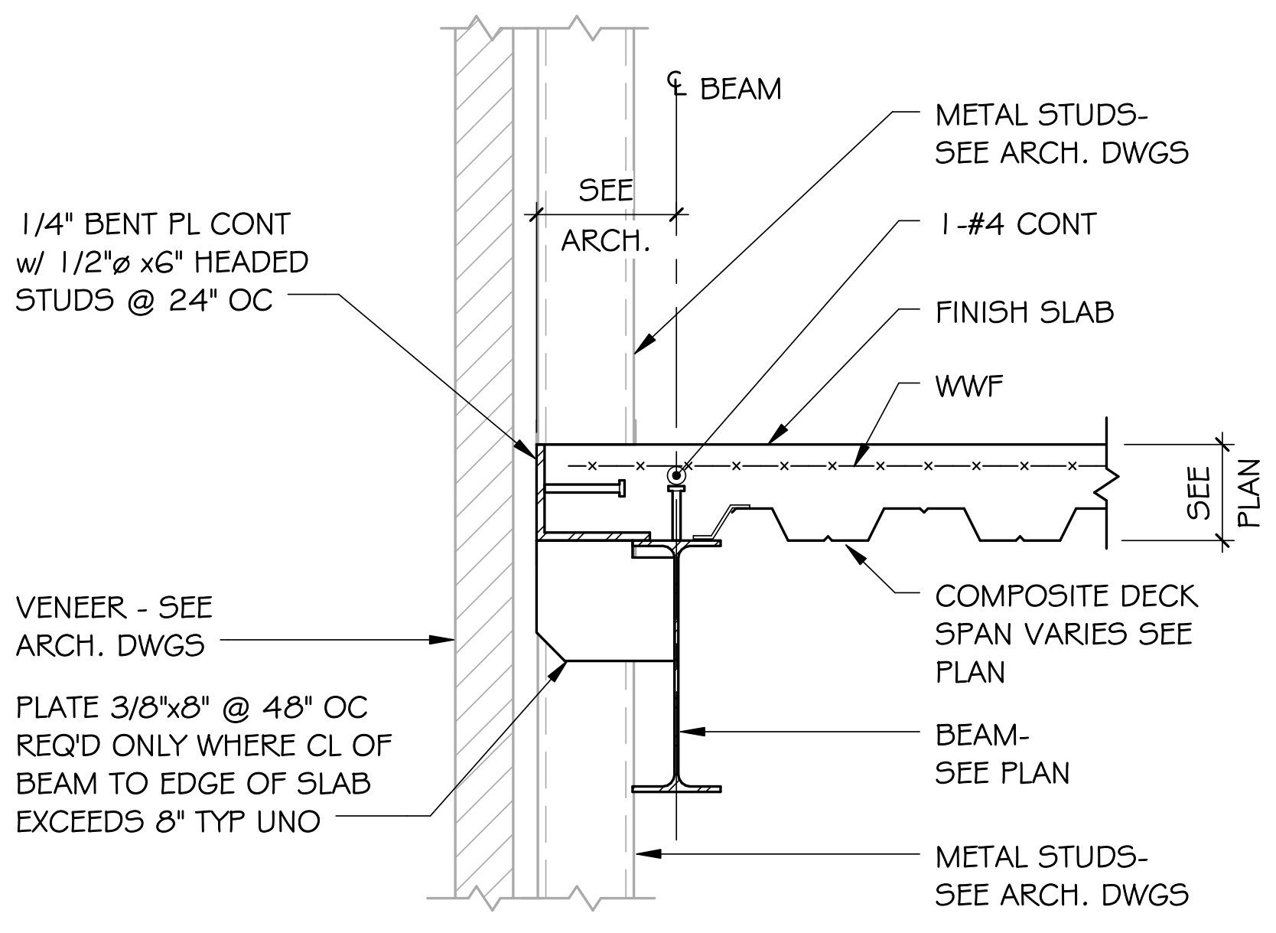
⑨ SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"



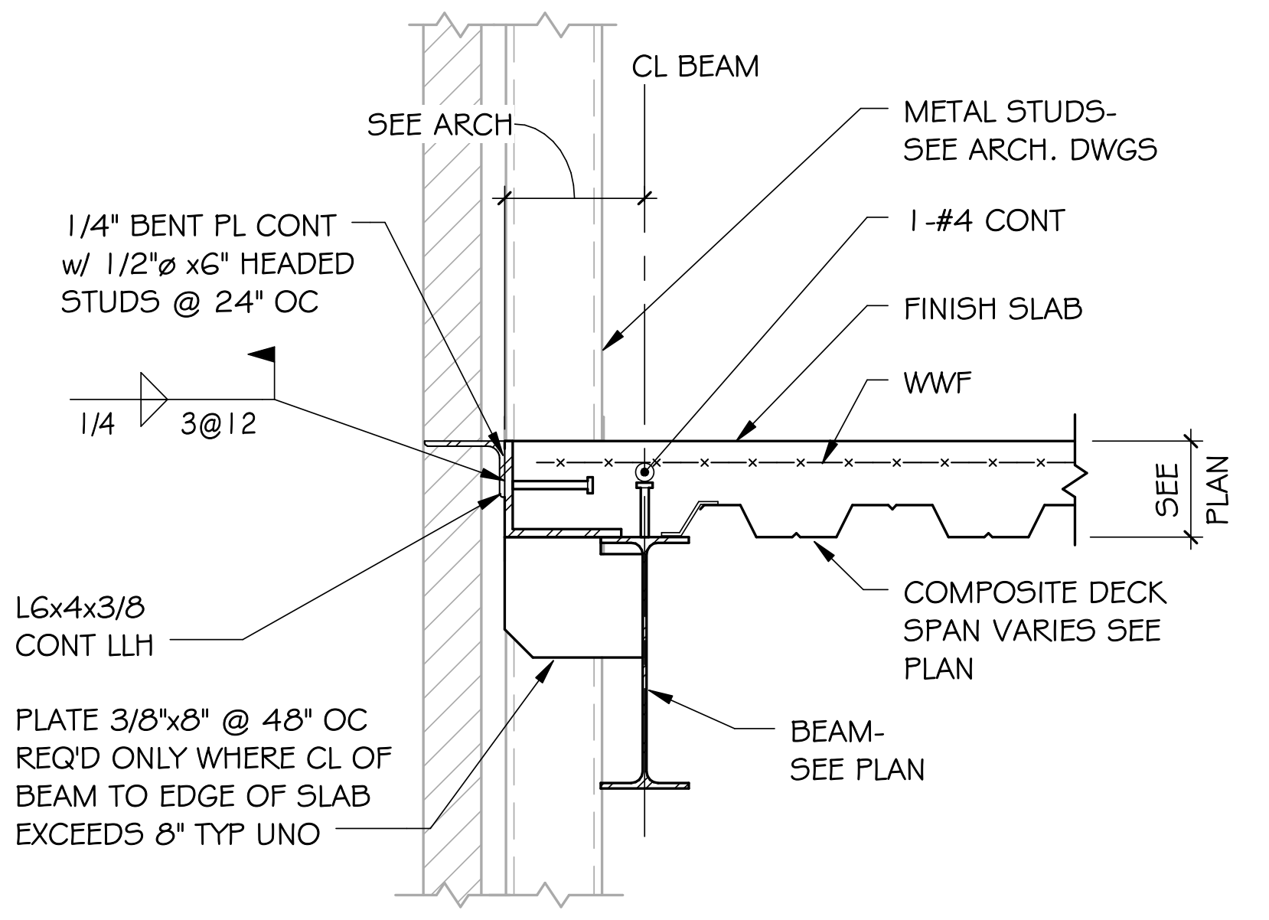
TYP @ COMPOSITE FLOOR SLAB OPENING UNO

⑩ FLOOR OPENING REINF
SCALE: 1" = 1'-0"

⑪
SCALE: 1" = 1'-0"

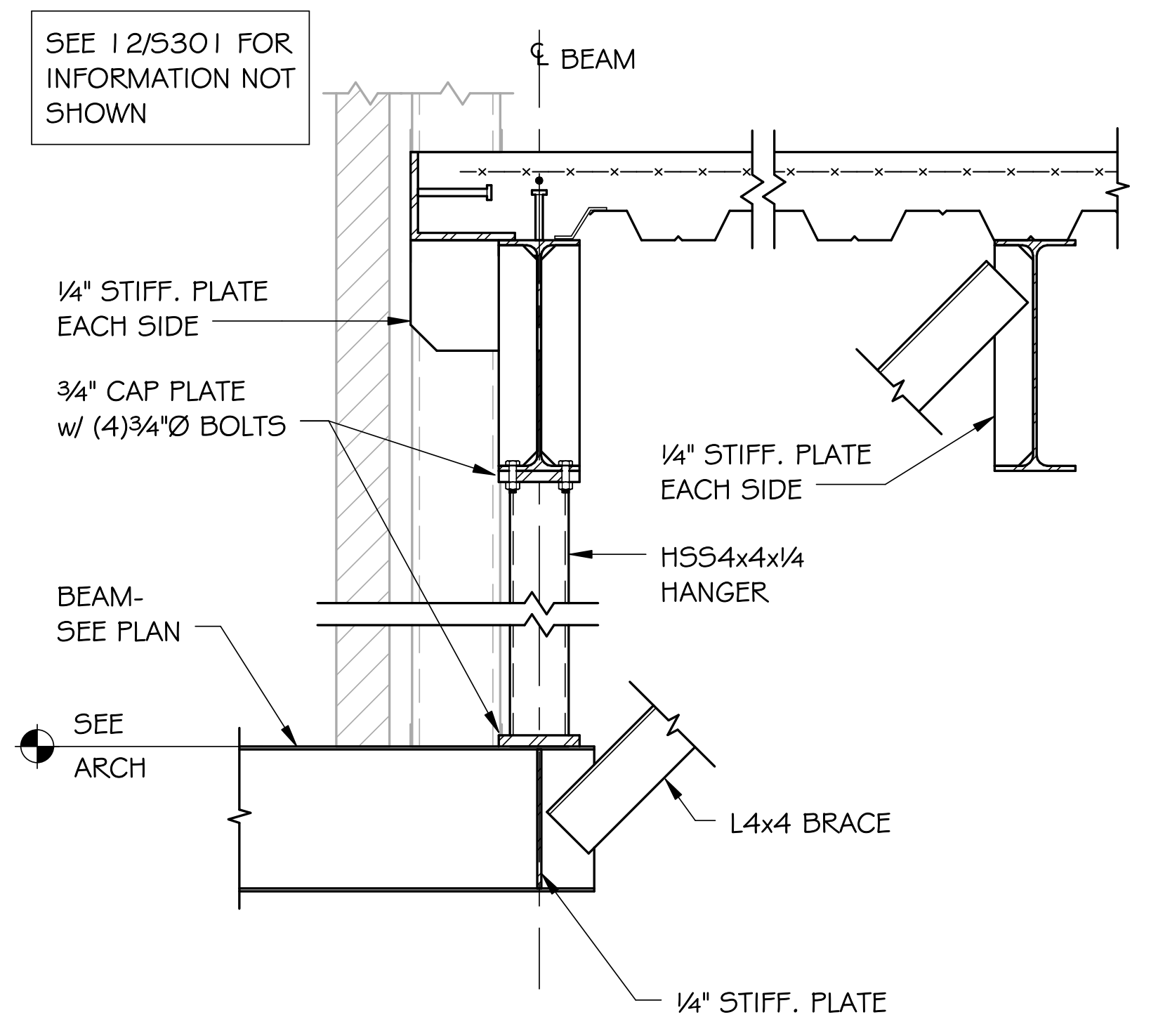

℄ BEAM
METAL STUDS- SEE ARCH. DWGS
SEE ARCH.
1/4" BENT PL CONT w/ 1/2"ø x6" HEADED STUDS @ 24" OC
1-#4 CONT
FINISH SLAB
WWF
SEE PLAN
VENEER - SEE ARCH. DWGS
COMPOSITE DECK SPAN VARIES SEE PLAN
PLATE 3/8"x8" @ 48" OC REQ'D ONLY WHERE CL OF BEAM TO EDGE OF SLAB EXCEEDS 8" TYP UNO
BEAM- SEE PLAN
METAL STUDS- SEE ARCH. DWGS

⑫ SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"

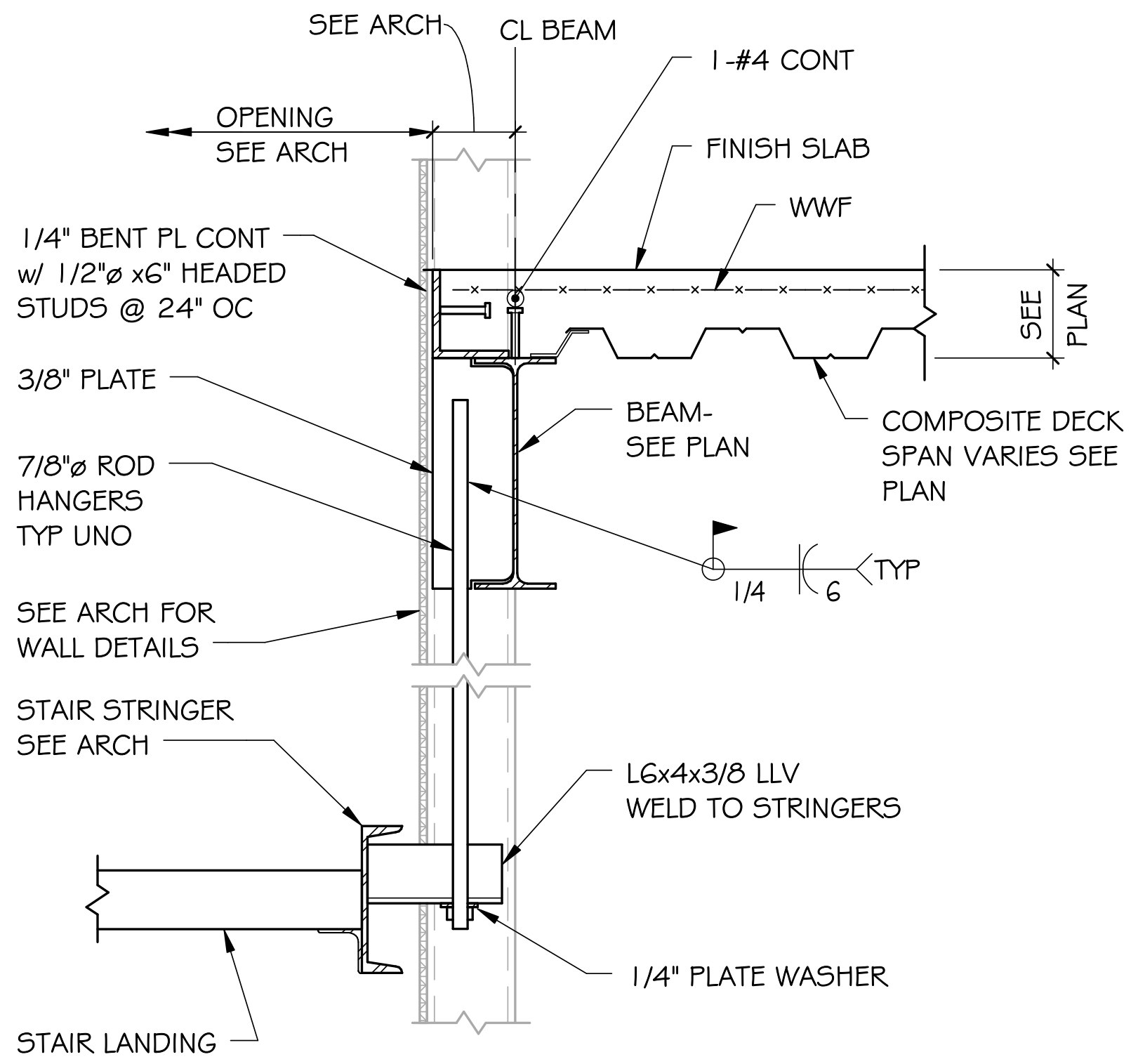

SEE ARCH
CL BEAM
METAL STUDS- SEE ARCH. DWGS
1/4" BENT PL CONT w/ 1/2"ø x6" HEADED STUDS @ 24" OC
1-#4 CONT
FINISH SLAB
WWF
1/4 3@12
SEE PLAN
L6x4x3/8 CONT LLH
COMPOSITE DECK SPAN VARIES SEE PLAN
PLATE 3/8"x8" @ 48" OC REQ'D ONLY WHERE CL OF BEAM TO EDGE OF SLAB EXCEEDS 8" TYP UNO
BEAM- SEE PLAN

⑬ SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"

SEE 12/S301 FOR INFORMATION NOT SHOWN

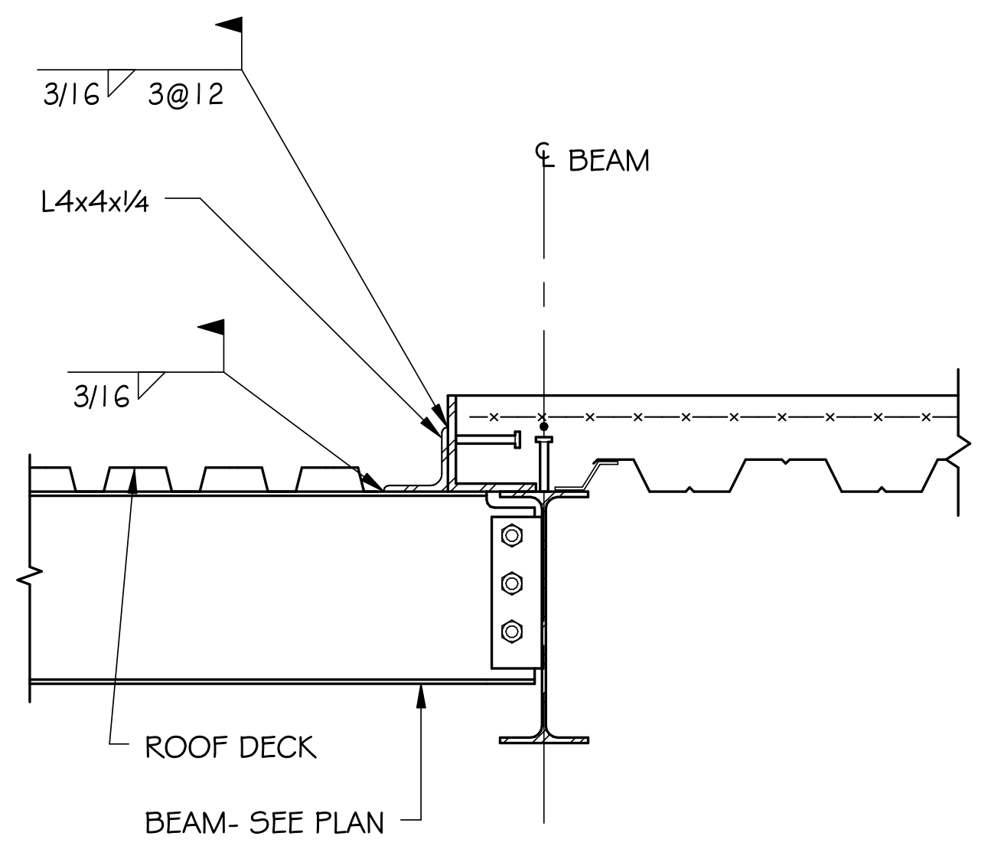

℄ BEAM
¼" STIFF. PLATE EACH SIDE
¾" CAP PLATE w/ (4)¾"Ø BOLTS
¼" STIFF. PLATE EACH SIDE
HSS4x4x¼ HANGER
BEAM- SEE PLAN
SEE ARCH
L4x4 BRACE
¼" STIFF. PLATE

⑭ SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"


SEE ARCH
CL BEAM
OPENING SEE ARCH
1-#4 CONT
FINISH SLAB
WWF
1/4" BENT PL CONT w/ 1/2"ø x6" HEADED STUDS @ 24" OC
SEE PLAN
3/8" PLATE
BEAM- SEE PLAN
COMPOSITE DECK SPAN VARIES SEE PLAN
7/8"ø ROD HANGERS TYP UNO
1/4
6
TYP
SEE ARCH FOR WALL DETAILS
STAIR STRINGER SEE ARCH
L6x4x3/8 LLV WELD TO STRINGERS
1/4" PLATE WASHER
STAIR LANDING

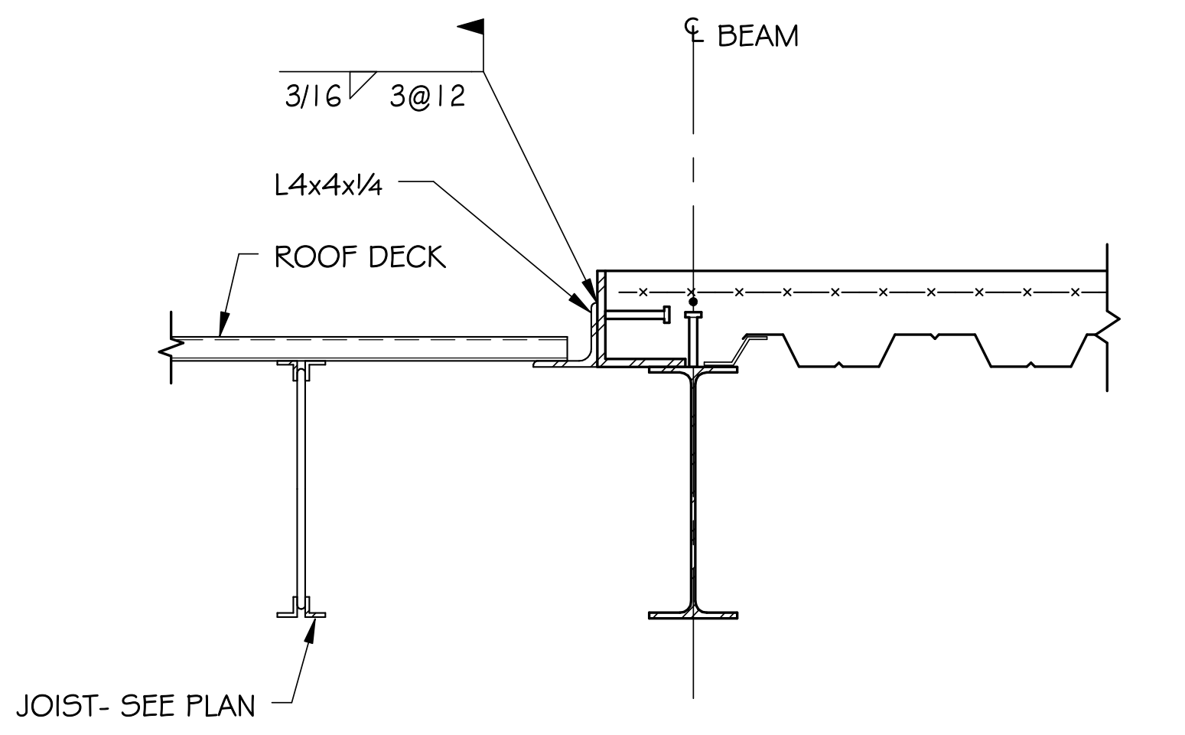
⑮ TYP STAIR HANGER DETAIL
SCALE: 1" = 1'-0"

SEE 7/S302 FOR INFORMATION NOT SHOWN



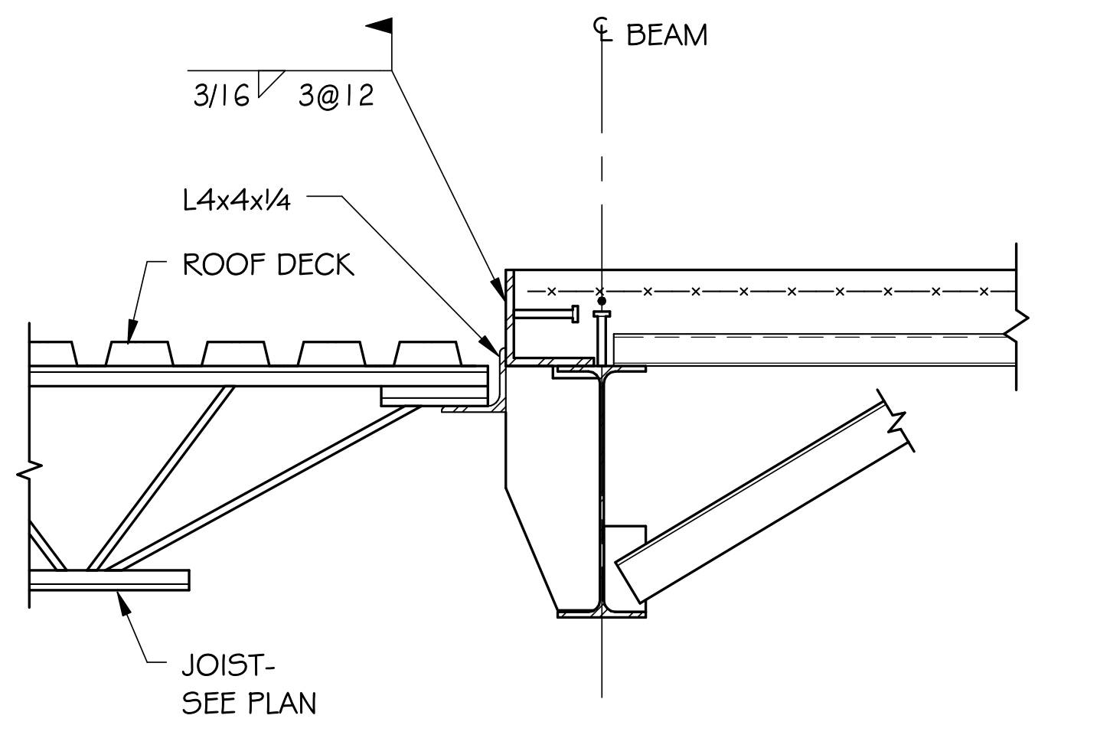
⑯ TYP EDGE OF SLAB
SCALE: 1" = 1'-0"

SEE 7/S302 FOR INFORMATION NOT SHOWN



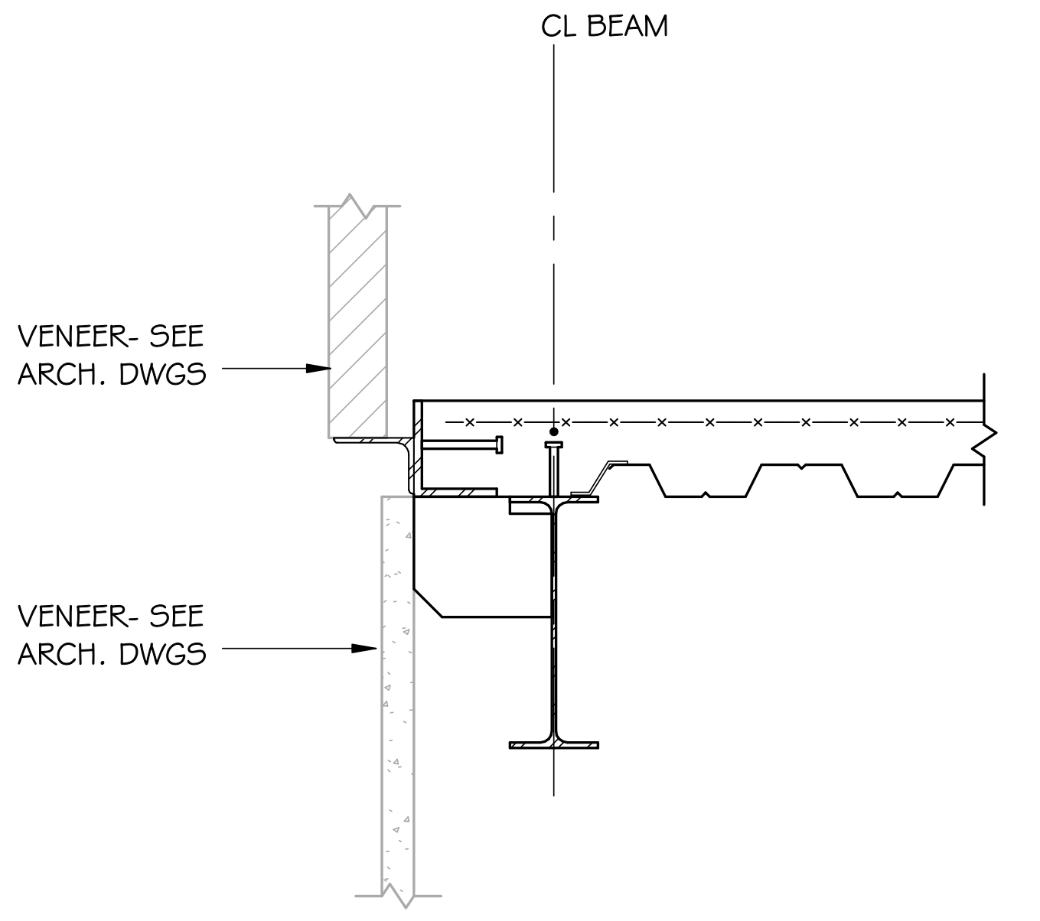
⑰ TYP EDGE OF SLAB
SCALE: 1" = 1'-0"

SEE 7/S302 FOR INFORMATION NOT SHOWN

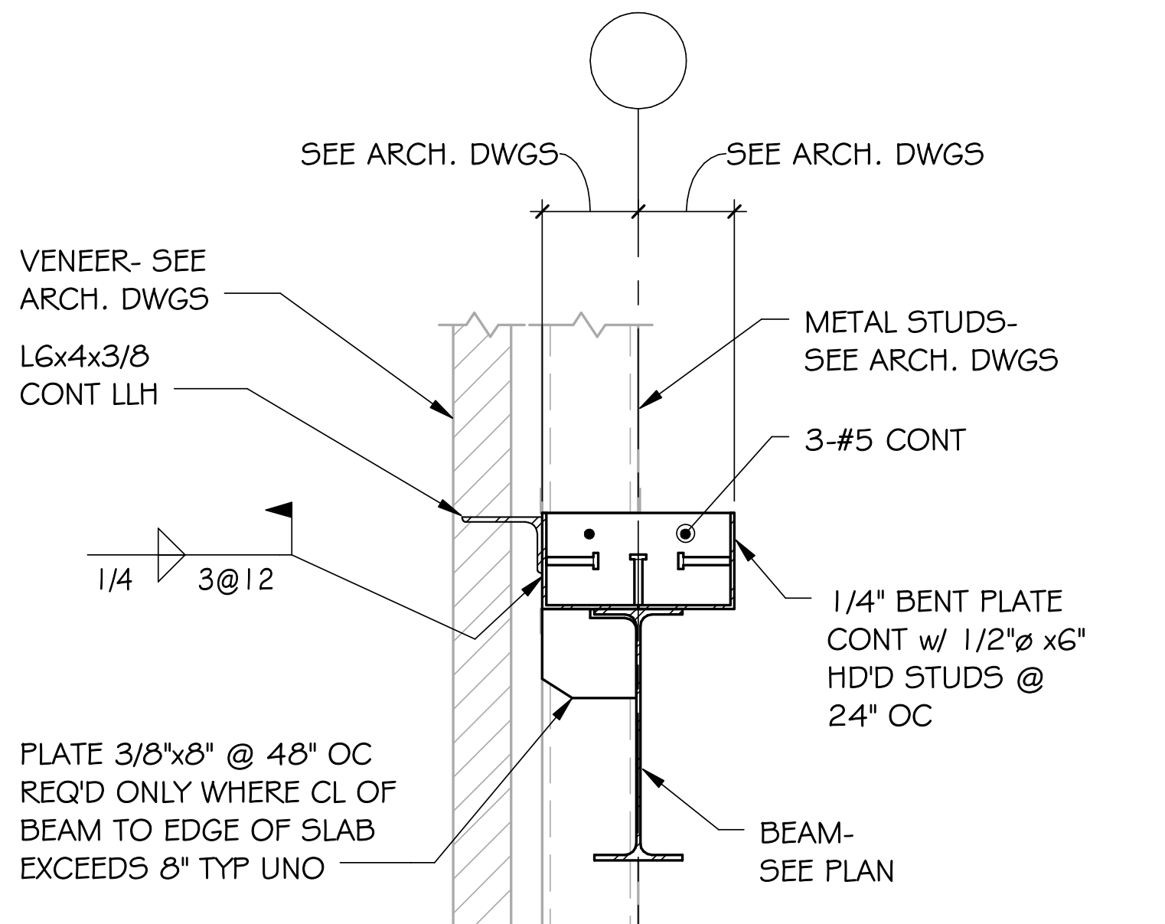


⑱ TYP EDGE OF SLAB
SCALE: 1" = 1'-0"

SEE 13/S302 FOR INFORMATION NOT SHOWN



⑲ SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"


SEE ARCH. DWGS
SEE ARCH. DWGS
VENEER- SEE ARCH. DWGS
L6x4x3/8 CONT LLH
METAL STUDS- SEE ARCH. DWGS
3-#5 CONT
1/4 3@12
1/4" BENT PLATE CONT w/ 1/2"ø x6" HD'D STUDS @ 24" OC
PLATE 3/8"x8" @ 48" OC REQ'D ONLY WHERE CL OF BEAM TO EDGE OF SLAB EXCEEDS 8" TYP UNO
BEAM- SEE PLAN

⑳ SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"

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LICENSE NUMBER: 123456789101112

PROJECT #
217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

DANIEL K. BORSOS
NUMBER PE-024916
2-15-19

DATES OF ISSUANCE
02/15/19

TITLE
SECTIONS AND DETAILS

SHEET
S301

EMC™
STRUCTURAL ENGINEERS, P.C.
4525 Trousdale Drive
Nashville, Tennessee 37204
(615) 781-8199
www.emcnashville.com

17153_R16

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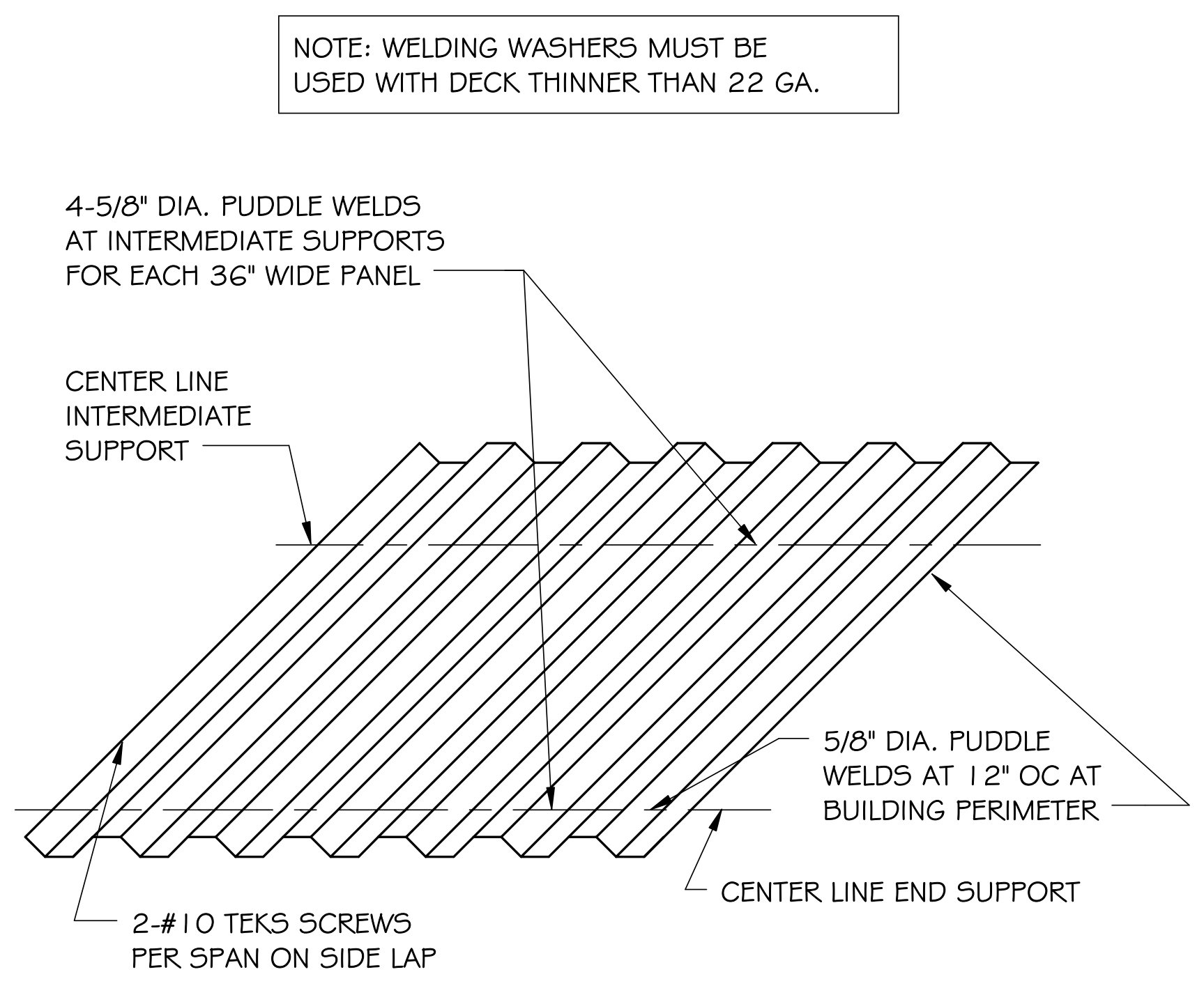
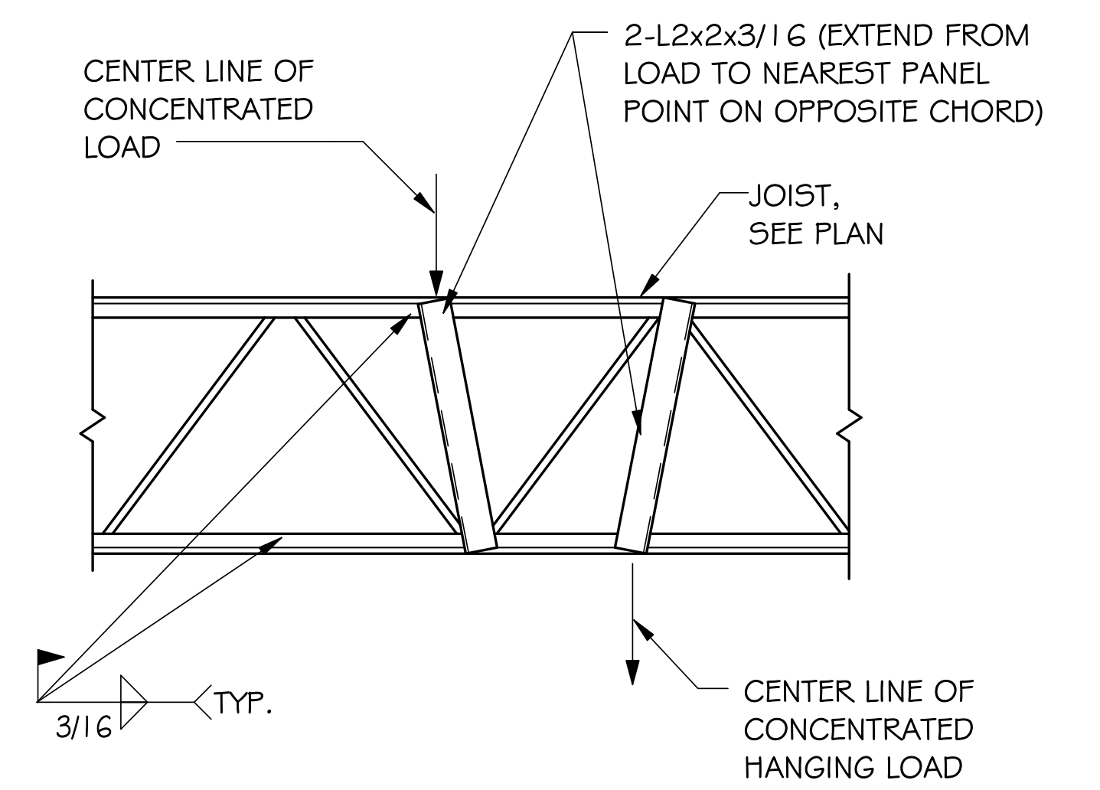
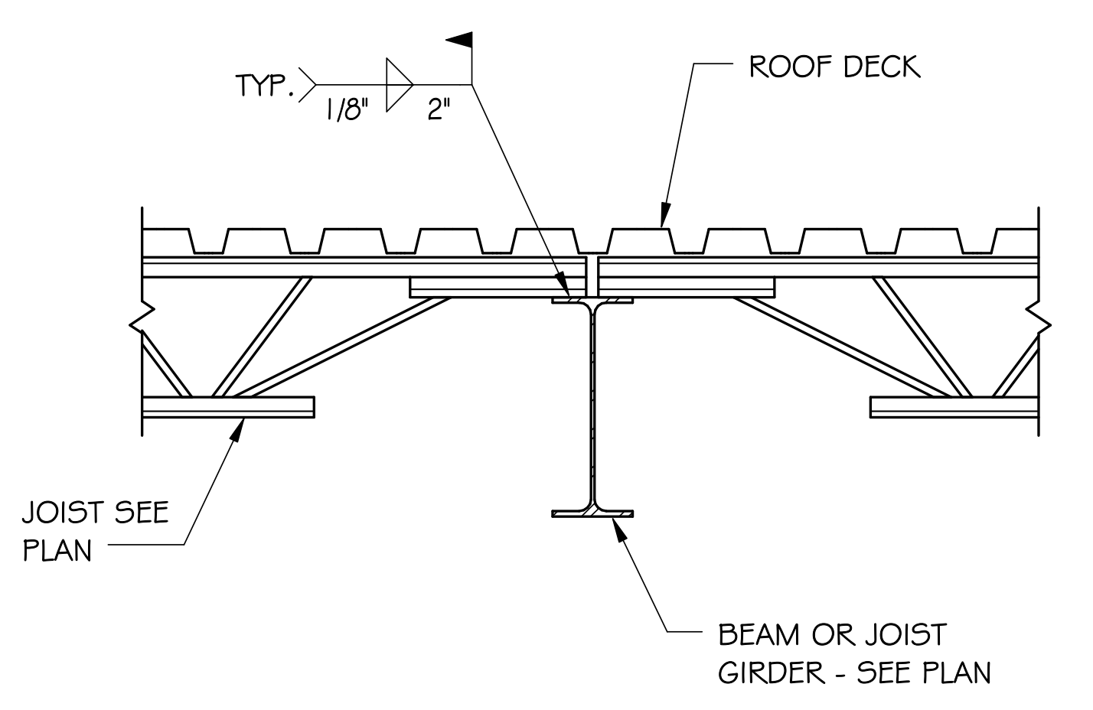

NOTE: WELDING WASHERS MUST BE USED WITH DECK THINNER THAN 22 GA.
4-5/8" DIA. PUDDLE WELDS AT INTERMEDIATE SUPPORTS FOR EACH 36" WIDE PANEL
CENTER LINE INTERMEDIATE SUPPORT
5/8" DIA. PUDDLE WELDS AT 12" OC AT BUILDING PERIMETER
CENTER LINE END SUPPORT
2-#10 TEKS SCREWS PER SPAN ON SIDE LAP

1 ROOF DECK ATTACHMENT
SCALE: NONE

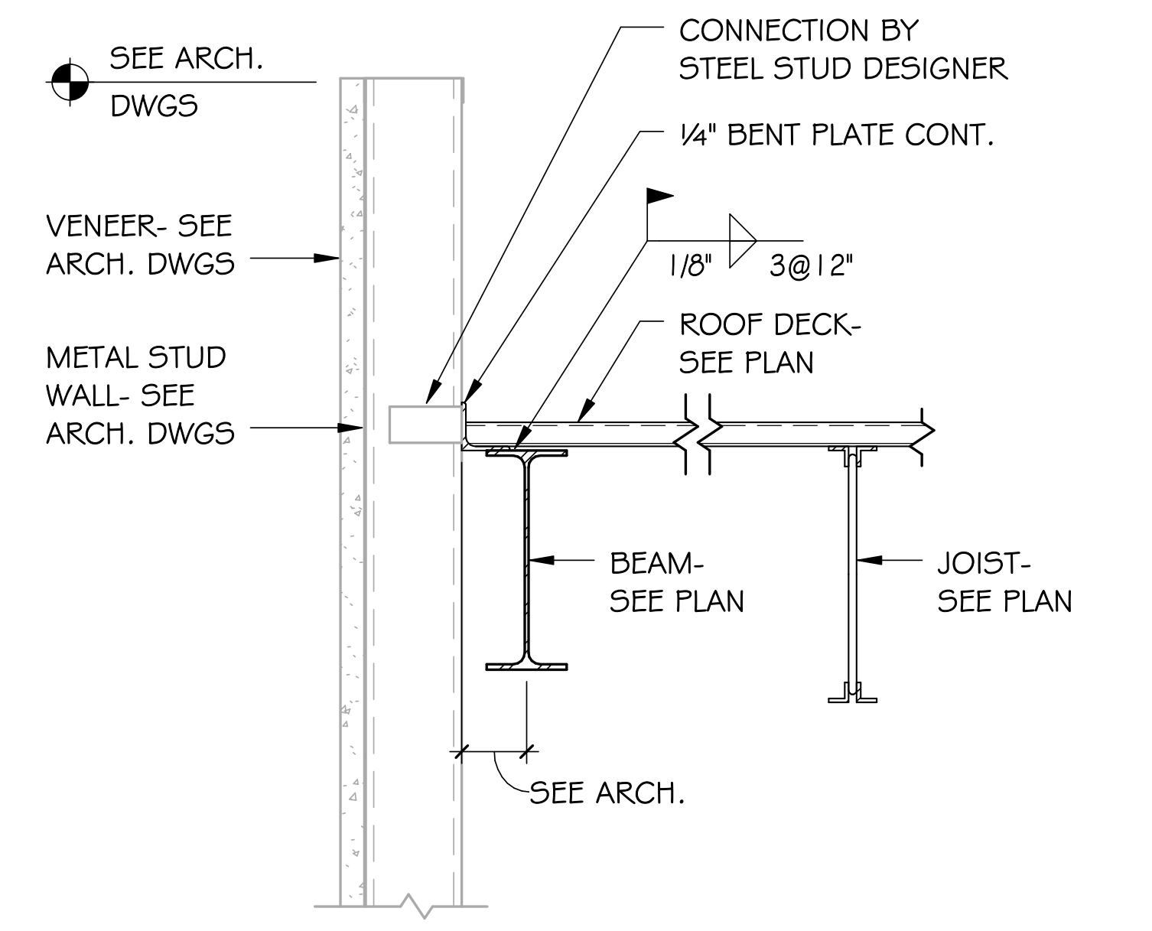

CENTER LINE OF CONCENTRATED LOAD
2-L2x2x3/16 (EXTEND FROM LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD)
JOIST, SEE PLAN
3/16
TYP.
CENTER LINE OF CONCENTRATED HANGING LOAD

NOTE: AT ALL CONCENTRATED LOADS NOT OCCURRING AT PANEL PTS.

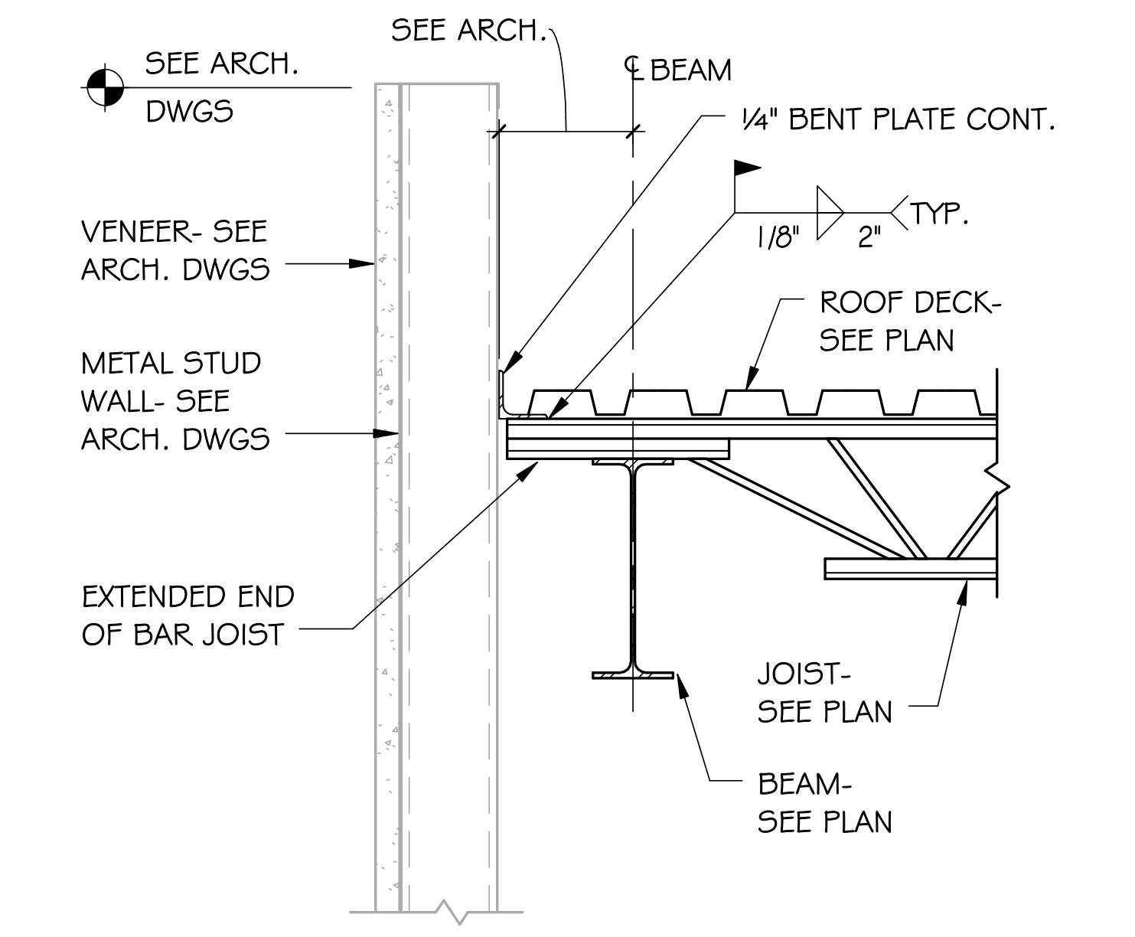
2 TYP. JOIST REINF.
SCALE: 1" = 1'-0"



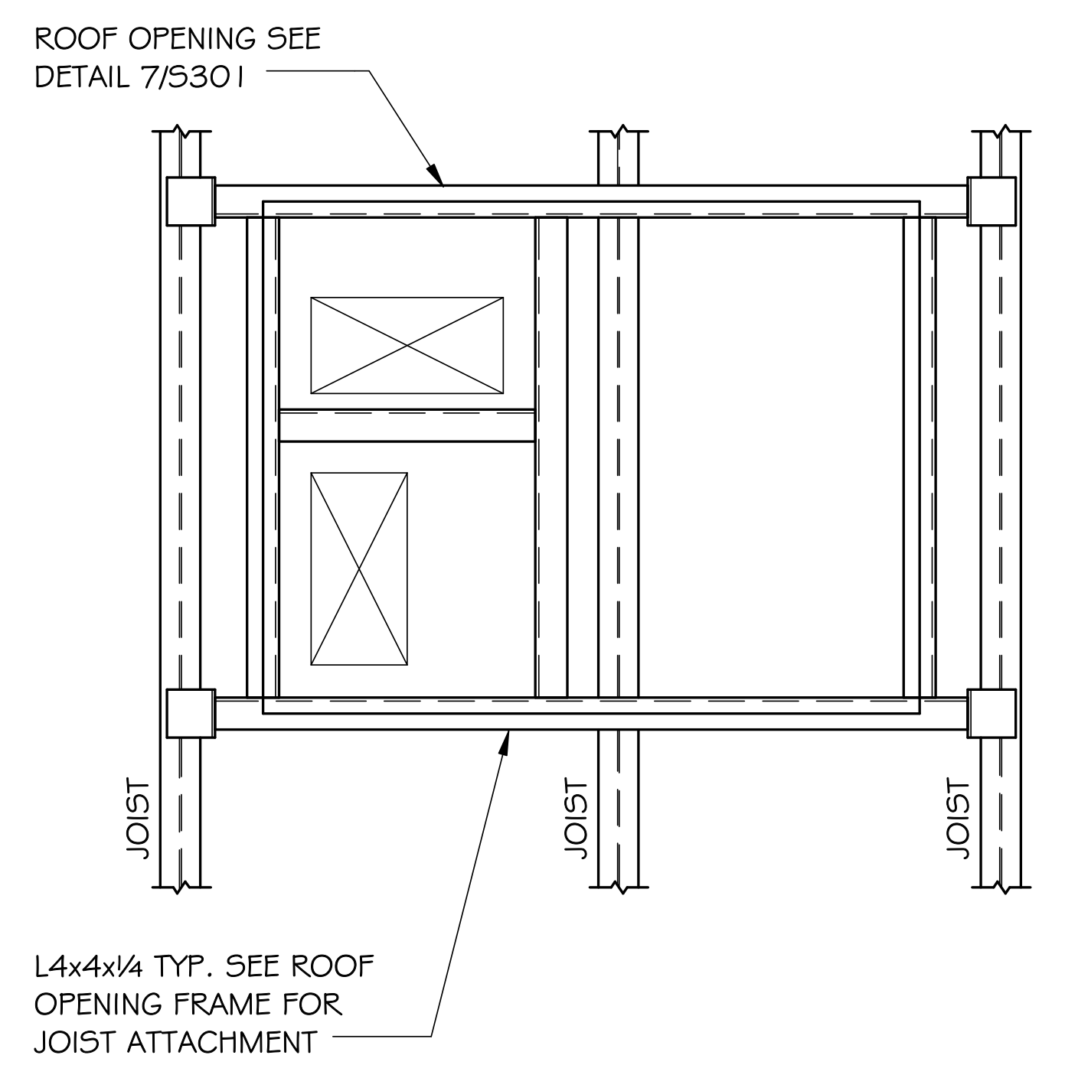
3 JOIST BEARING @ BEAM
SCALE: 1" = 1'-0"



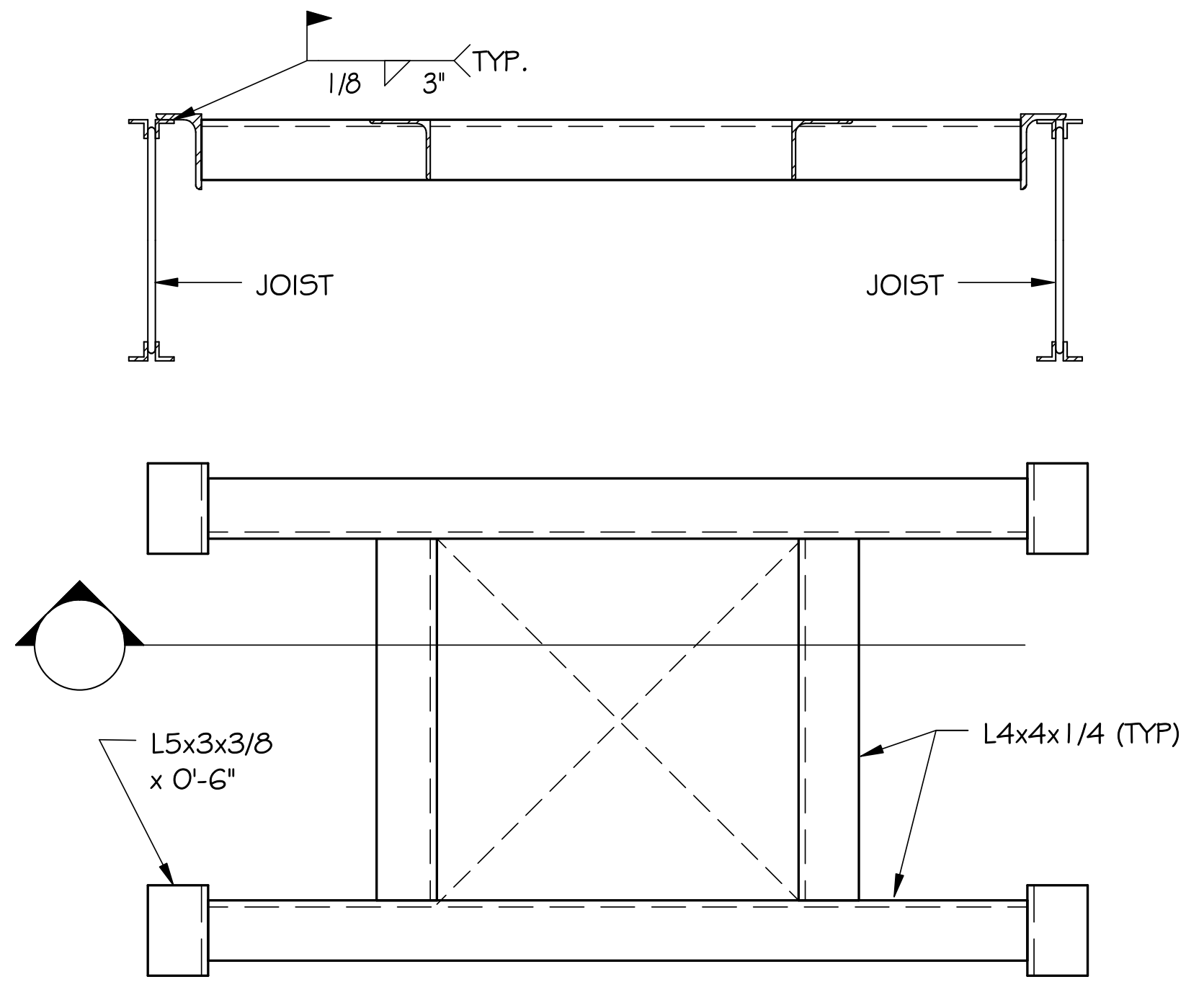
4 SECTION @ ROOF
SCALE: 1" = 1'-0"



5 JOIST BEARING @ BEAM
SCALE: 1" = 1'-0"

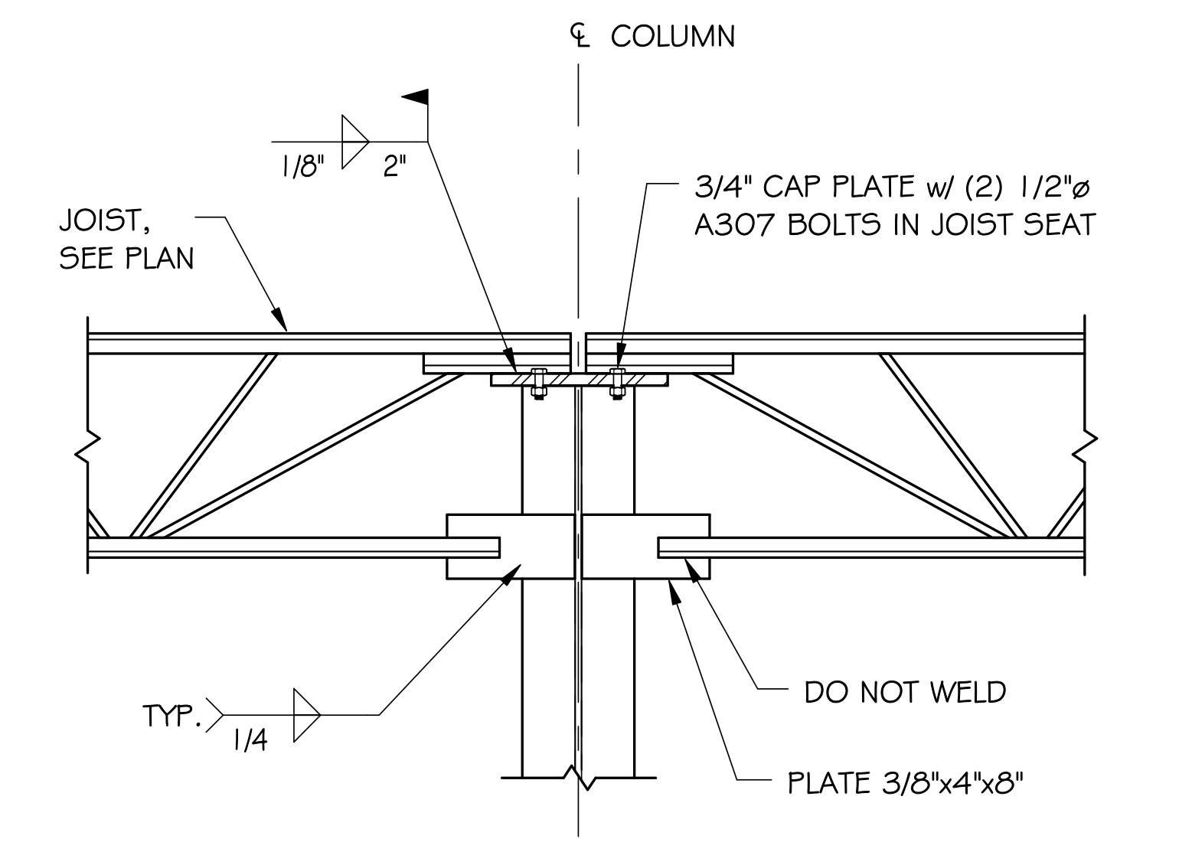

ROOF OPENING SEE DETAIL 7/S301
JOIST
JOIST
JOIST
L4x4x1/4 TYP. SEE ROOF OPENING FRAME FOR JOIST ATTACHMENT

6 RTU SUPPORT FRAME
SCALE: 1/2" = 1'-0"

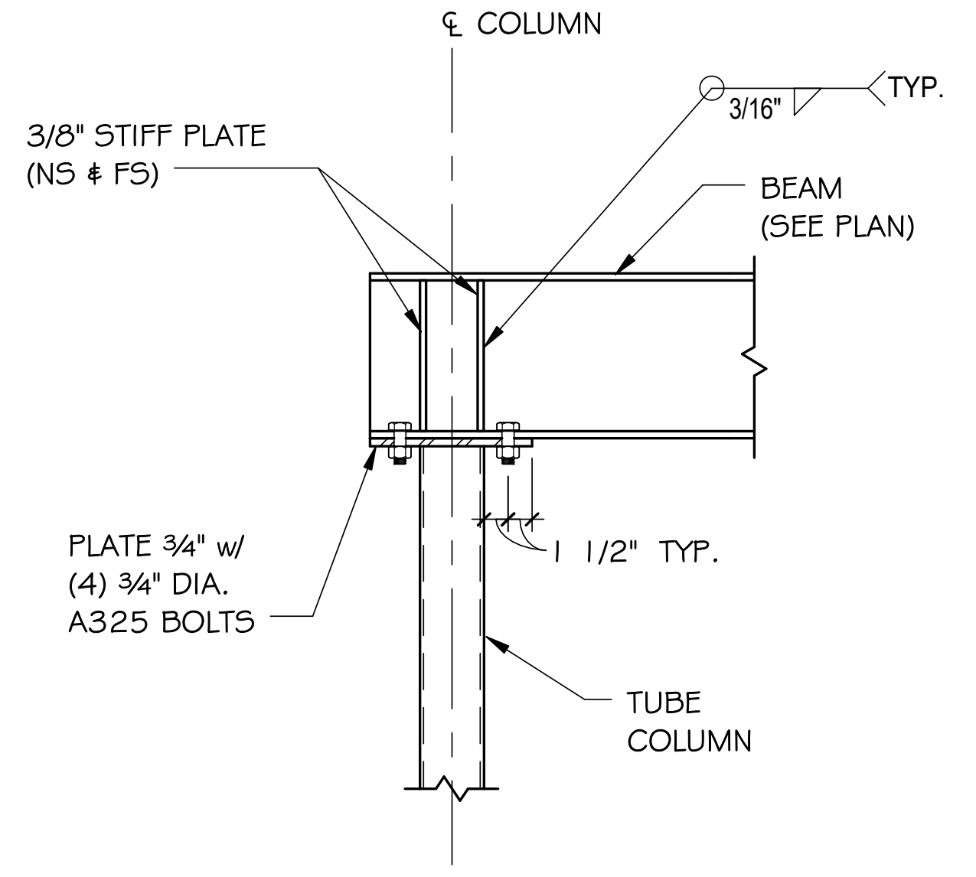


NOTE: COORDINATE w/ ARCH. & MECH. FOR OPENING SIZE.

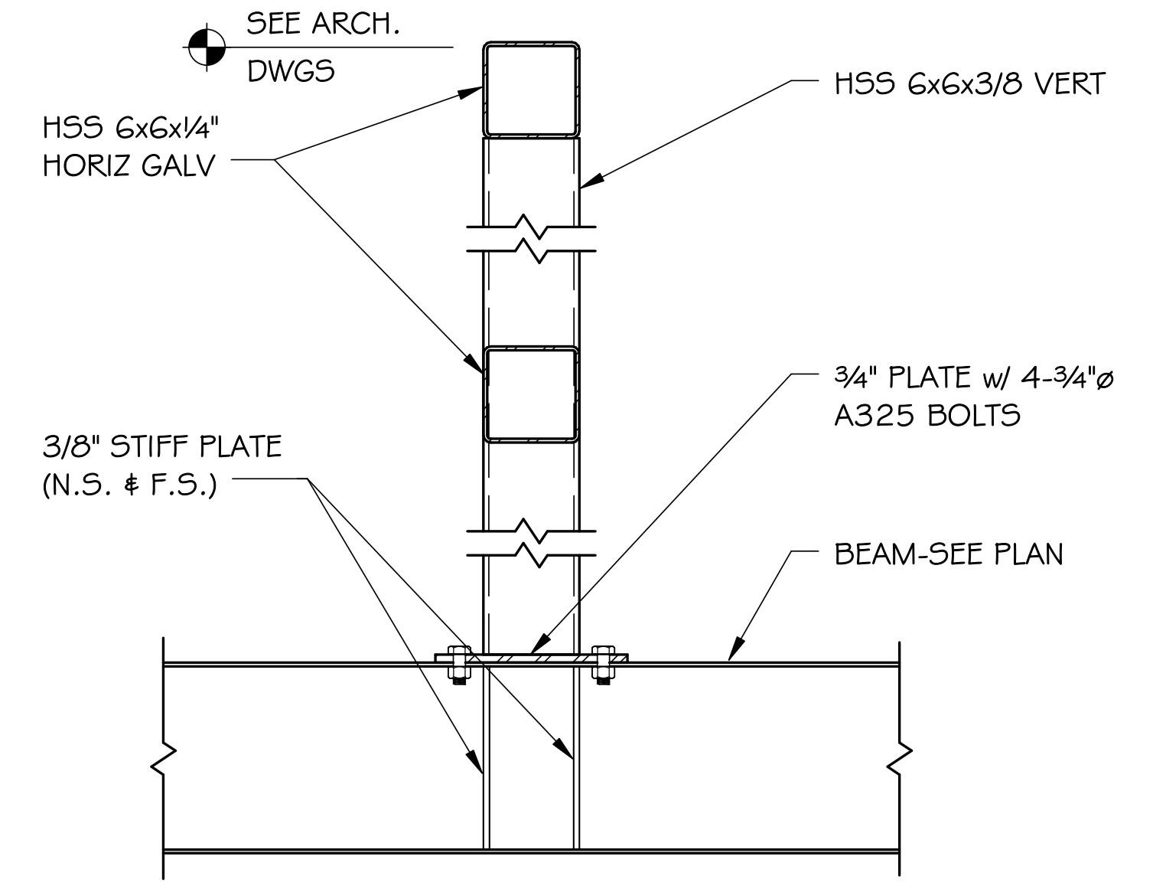
7 TYPICAL ROOF OPEN FRAME
SCALE: 1" = 1'-0"



8 JOIST @ COLUMN
SCALE: 1" = 1'-0"

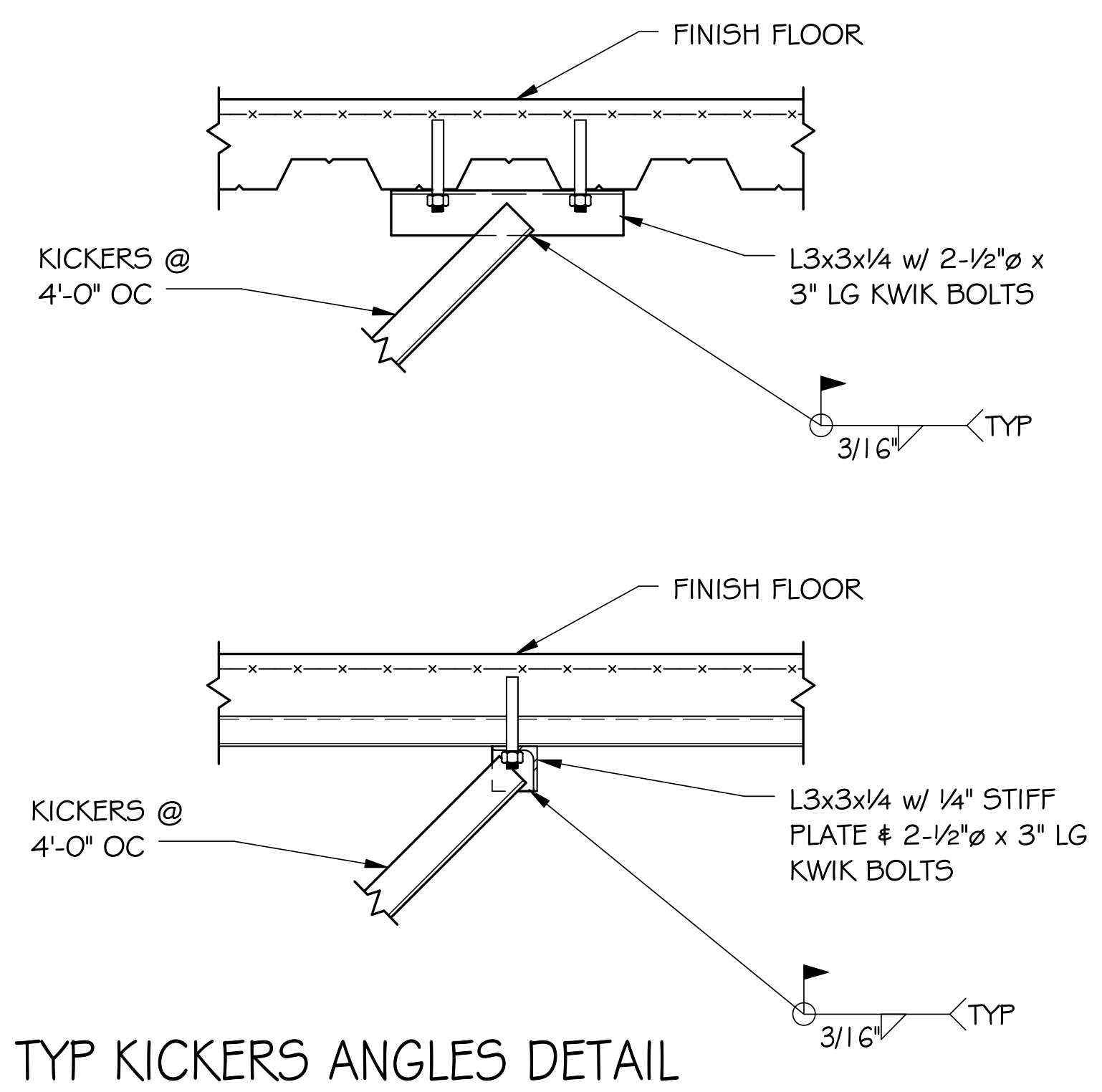

℄ COLUMN
3/16"
TYP.
3/8" STIFF PLATE (NS & FS)
BEAM (SEE PLAN)
PLATE 3/4" w/ (4) 3/4" DIA. A325 BOLTS
1 1/2" TYP.
TUBE COLUMN

9 SECTION
SCALE: 1" = 1'-0"

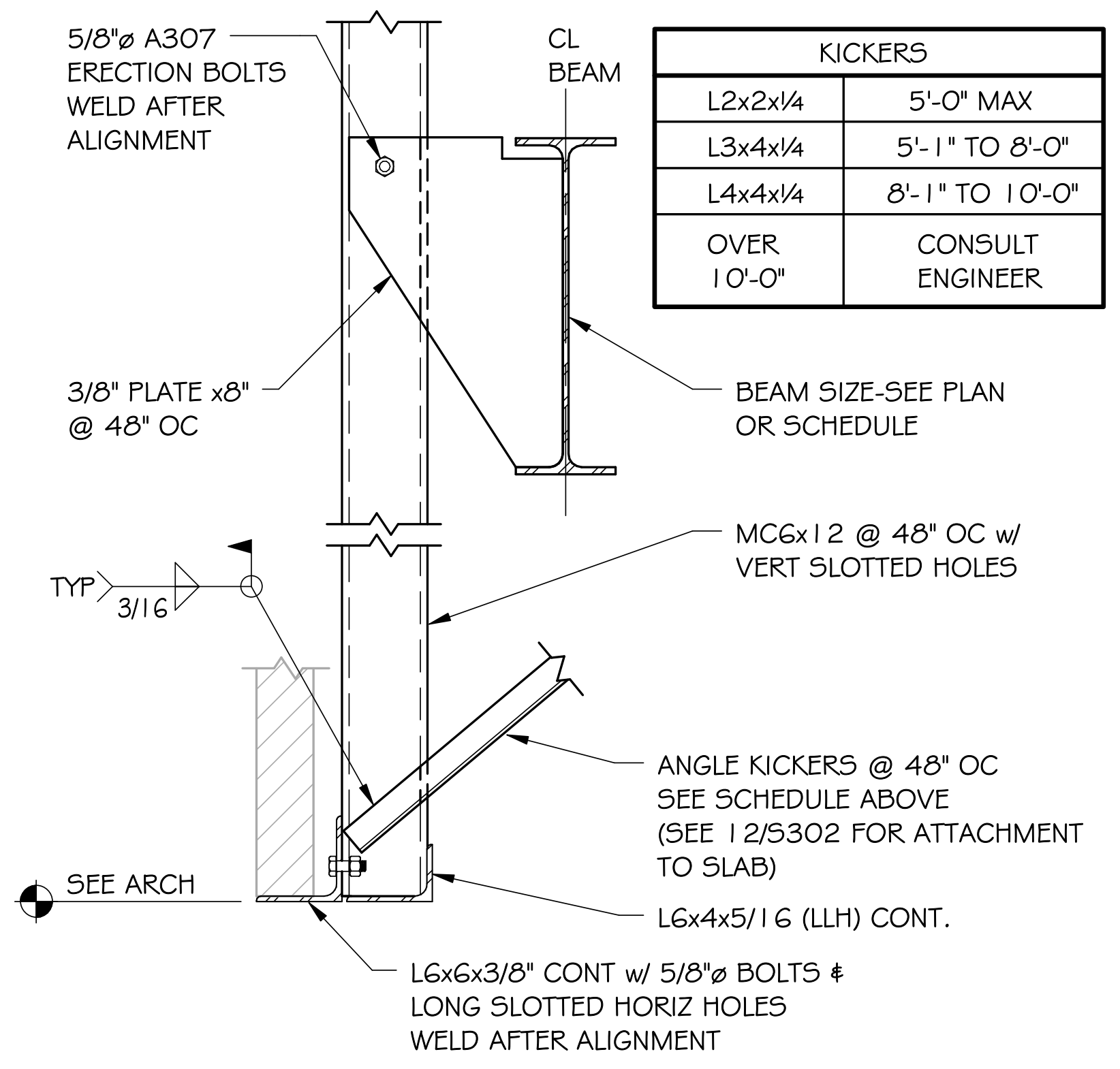


10 SECTION
SCALE: 1" = 1'-0"

11 SCALE: 1" = 1'-0"

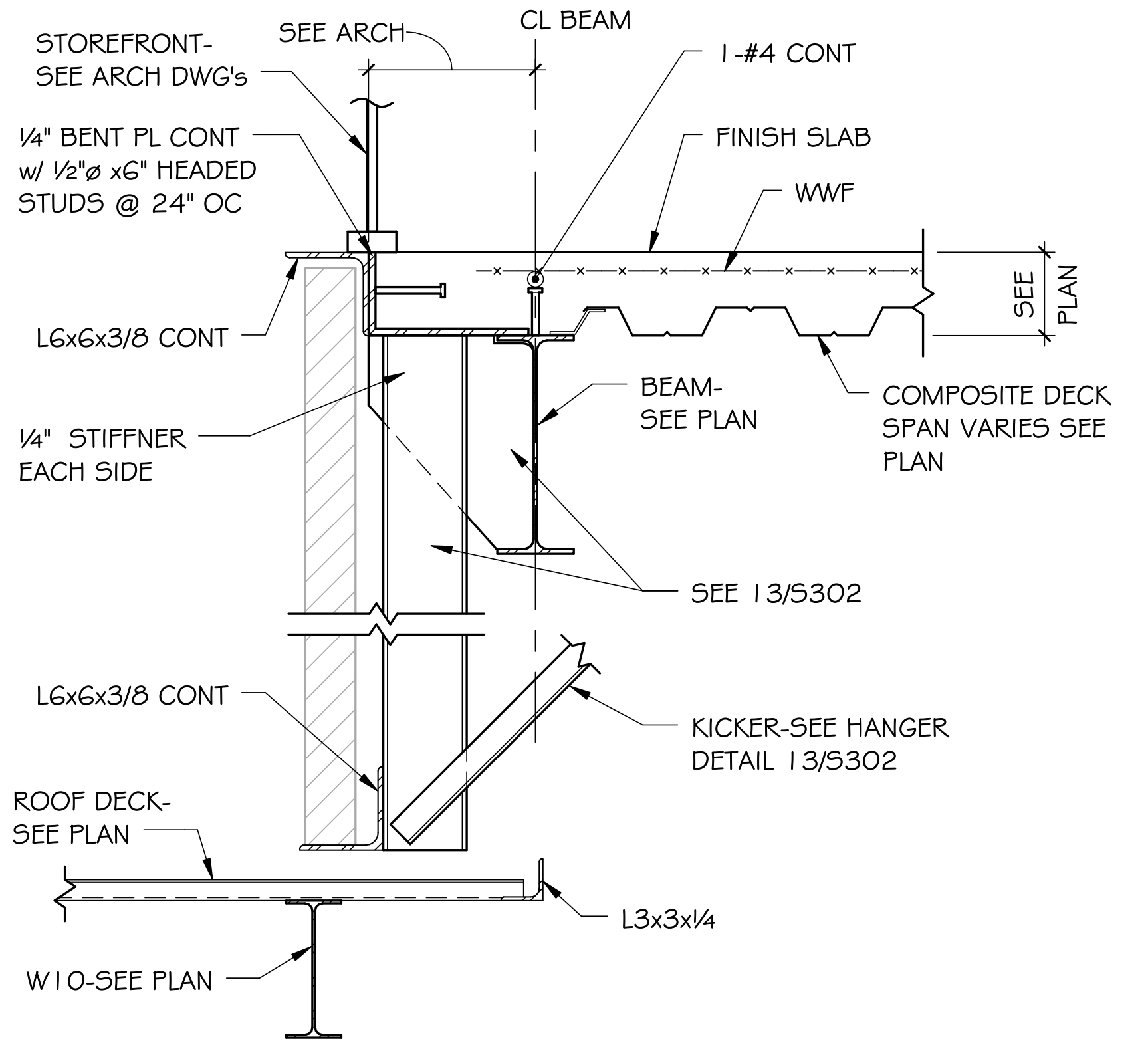

FINISH FLOOR
KICKERS @ 4'-0" OC
L3x3x1/4 w/ 2-1/2"ø x 3" LG KWIK BOLTS
3/16"
TYP
FINISH FLOOR
KICKERS @ 4'-0" OC
L3x3x1/4 w/ 1/4" STIFF PLATE & 2-1/2"ø x 3" LG KWIK BOLTS
3/16"
TYP

12 TYP KICKERS ANGLES DETAIL AT COMPOSITE SLABS
SCALE: NONE

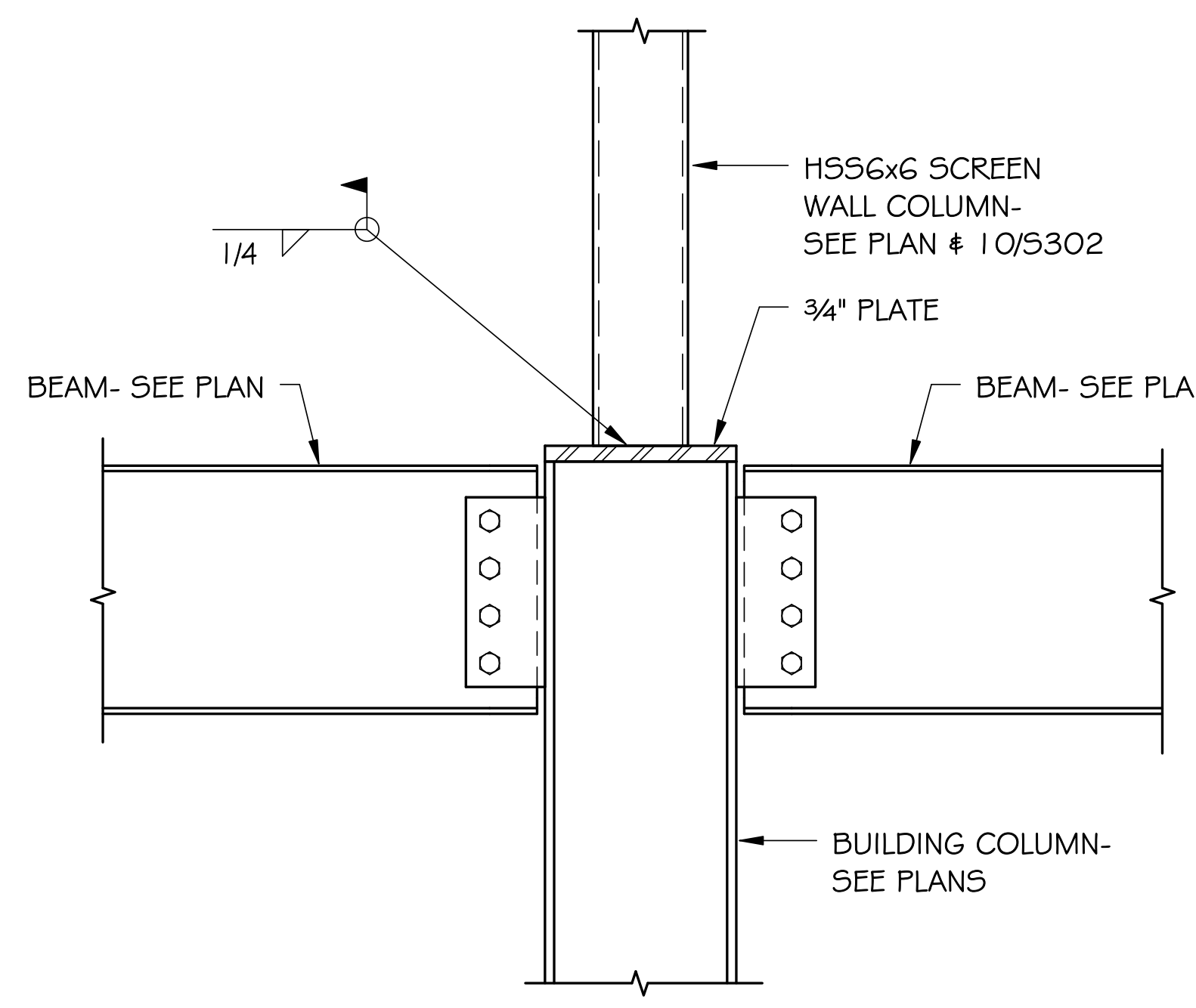

5/8"ø A307 ERECTION BOLTS WELD AFTER ALIGNMENT
CL BEAM
BEAM SIZE-SEE PLAN OR SCHEDULE
3/8" PLATE x8" @ 48" OC
MC6x12 @ 48" OC w/ VERT SLOTTED HOLES
TYP
3/16
ANGLE KICKERS @ 48" OC SEE SCHEDULE ABOVE (SEE 12/S302 FOR ATTACHMENT TO SLAB)
SEE ARCH
L6x4x5/16 (LLH) CONT.
L6x6x3/8" CONT w/ 5/8"ø BOLTS & LONG SLOTTED HORIZ HOLES WELD AFTER ALIGNMENT

KICKERS	
L2x2x1/4	5'-0" MAX
L3x4x1/4	5'-1" TO 8'-0"
L4x4x1/4	8'-1" TO 10'-0"
OVER 10'-0"	CONSULT ENGINEER

13 TYP VENEER HANGER DETAIL
SCALE: 1" = 1'-0"

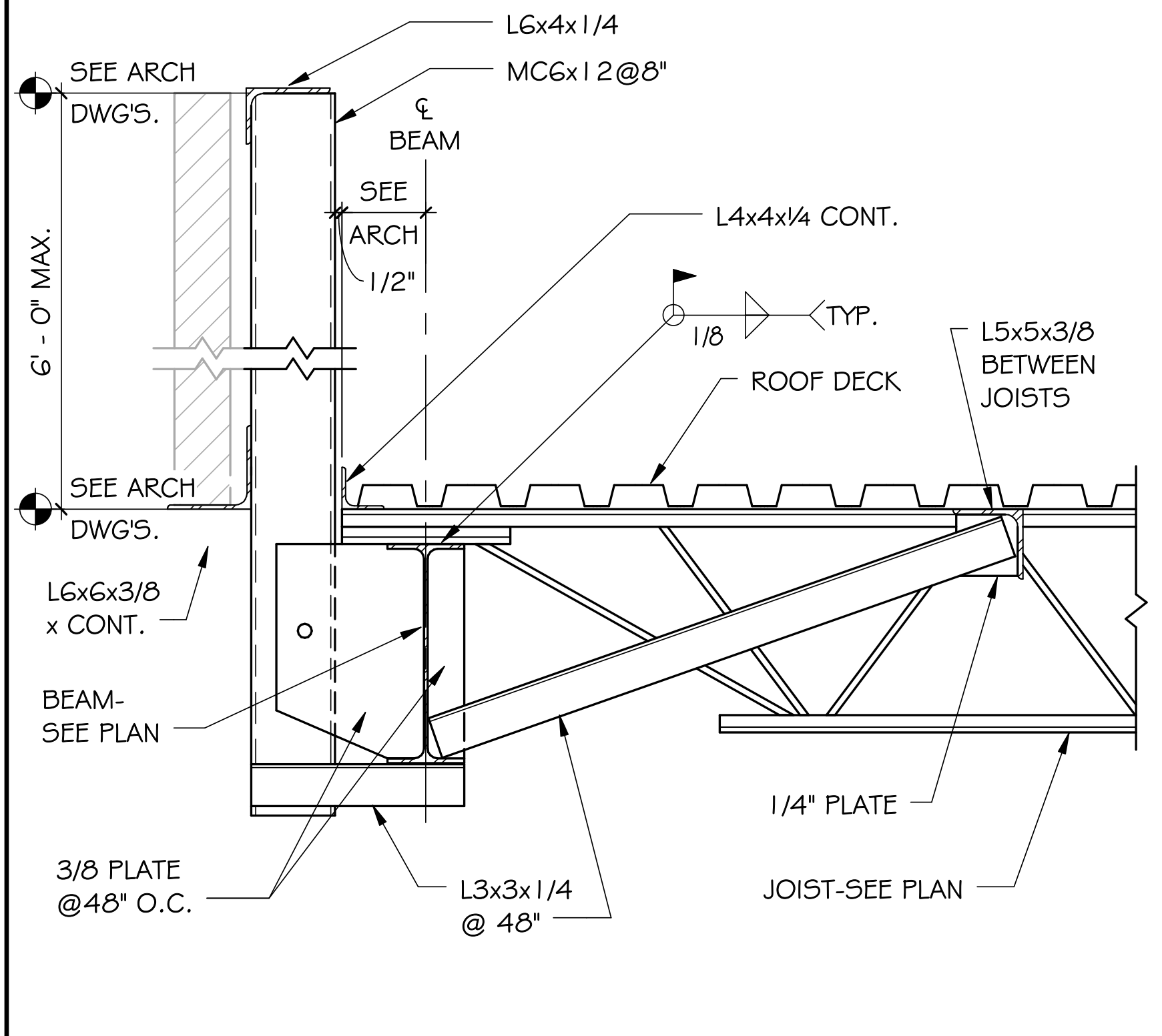


14 SECTION @ EXTERIOR WALL
SCALE: 1" = 1'-0"

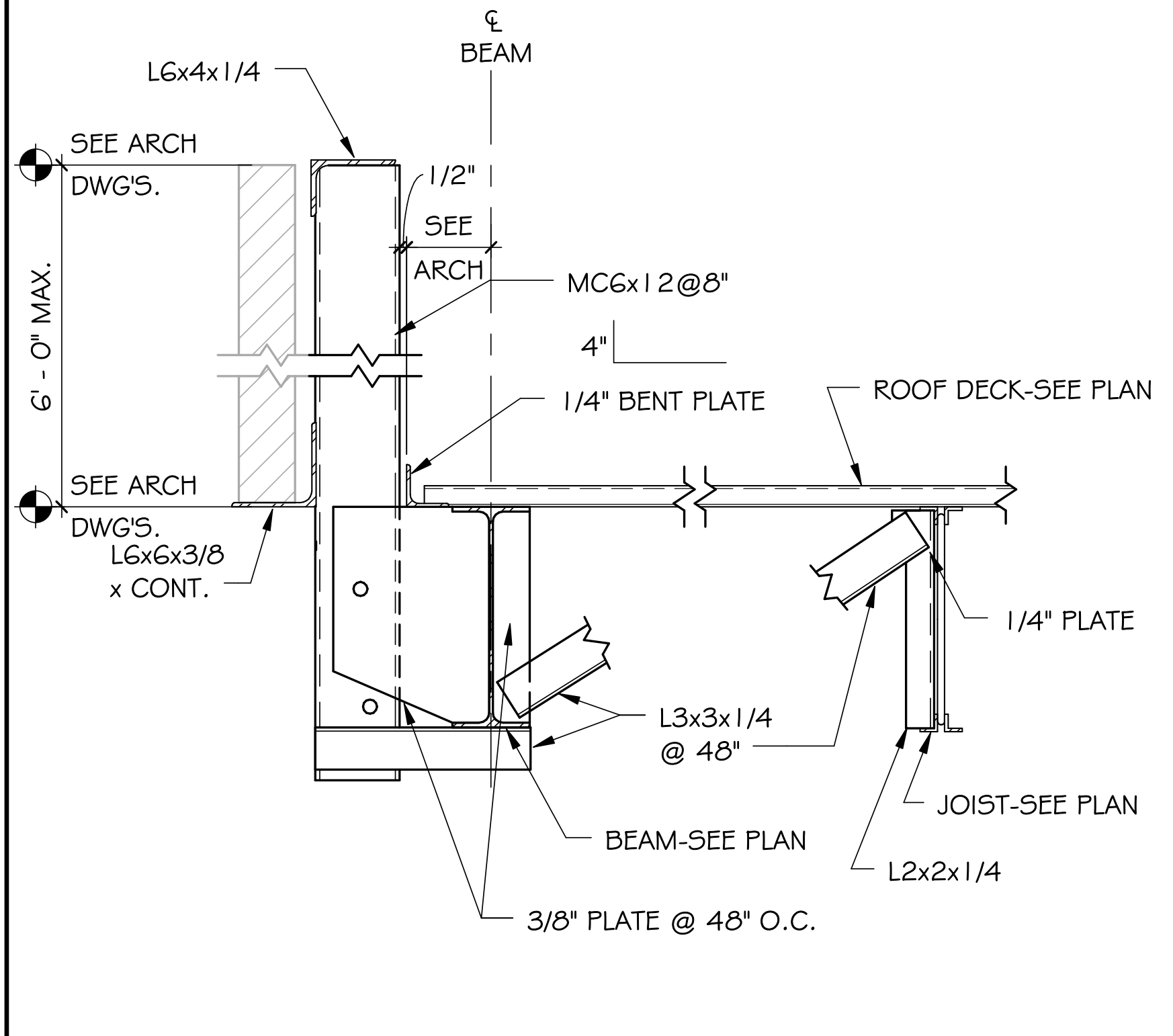

HSS6x6 SCREEN WALL COLUMN- SEE PLAN & 10/S302
1/4
3/4" PLATE
BEAM- SEE PLAN
BEAM- SEE PLAN
BUILDING COLUMN- SEE PLANS

15 SECTION
SCALE: 1" = 1'-0"

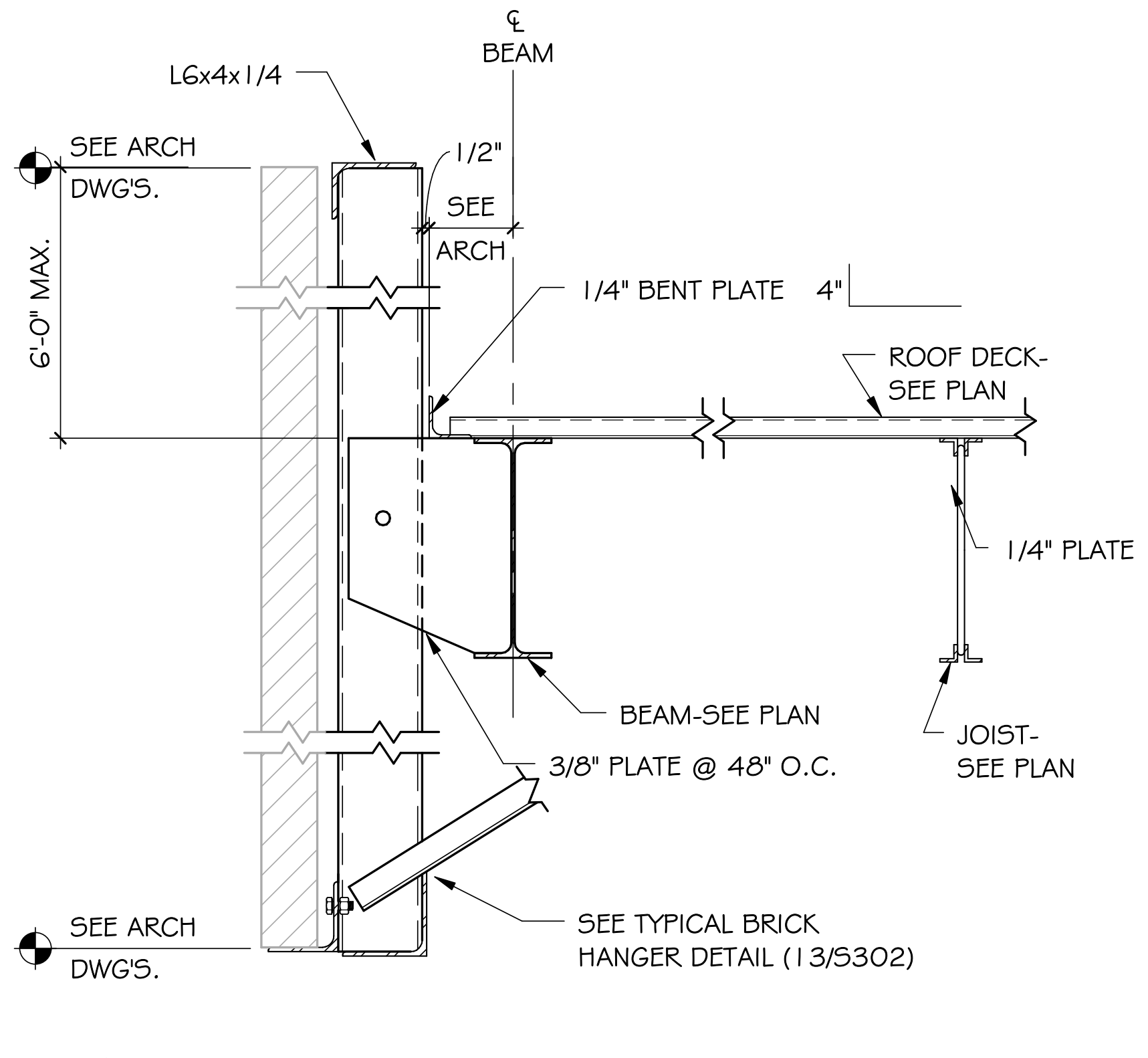
16 SCALE: 1" = 1'-0"



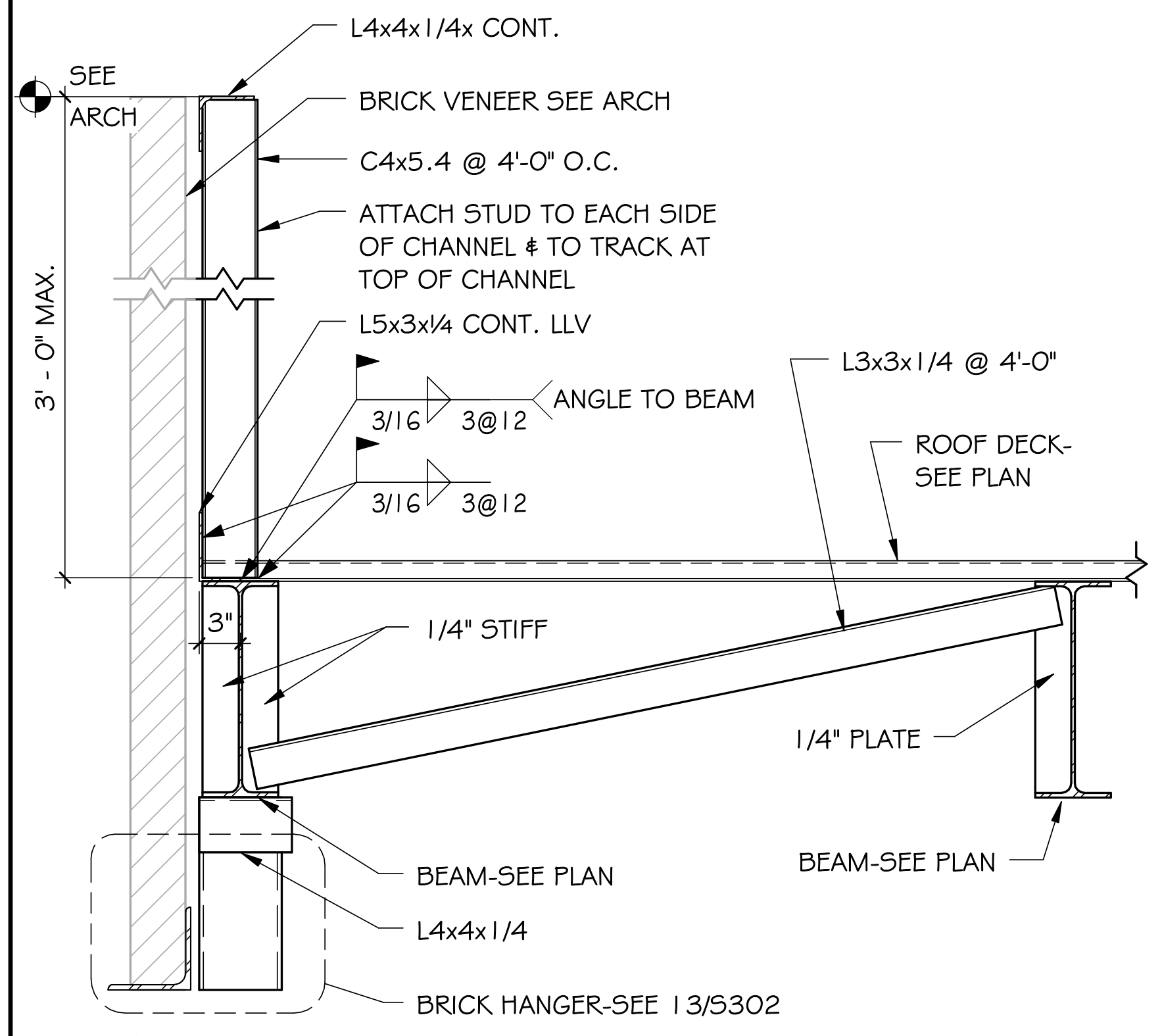
17 SECTION @ ROOF
SCALE: 1" = 1'-0"



18 SECTION @ ROOF
SCALE: 1" = 1'-0"



19 SECTION @ ROOF
SCALE: 1" = 1'-0"



20 SECTION @ ROOF
SCALE: 1" = 1'-0"

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LICENSE NUMBER: 123456789101112

PROJECT # 217026.00
CLIENT PROJECT NUMBER: 123456789

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

DANIEL K. BORSOS
NUMBER PE-024916
2-15-19

DATES OF ISSUANCE 02/15/19

EMC STRUCTURAL ENGINEERS, P.C.
4525 Trousdale Drive
Nashville, Tennessee 37204
(615) 781-8199
www.emcnashville.com

17153_R16

TITLE SECTIONS AND DETAILS

SHEET S302

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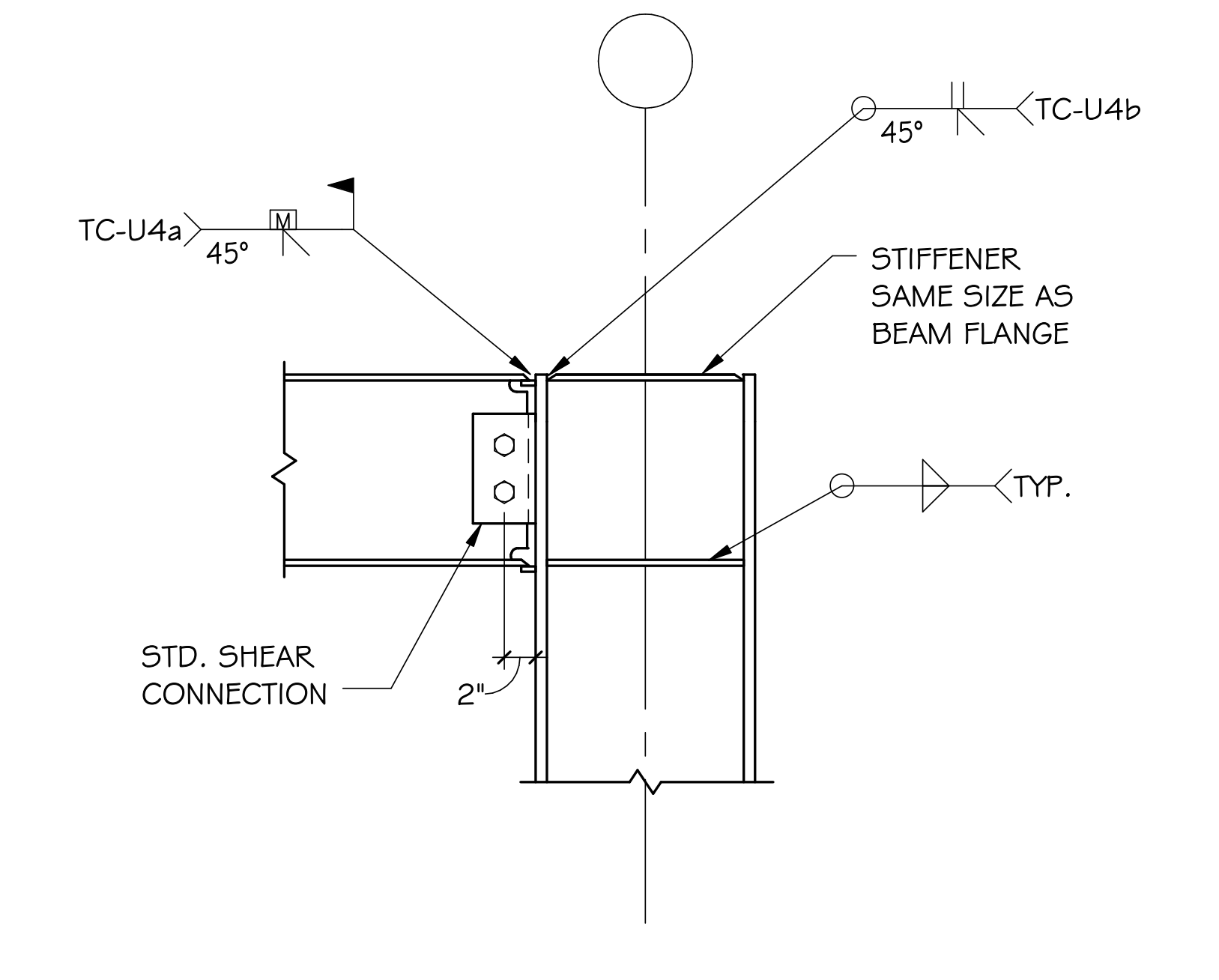
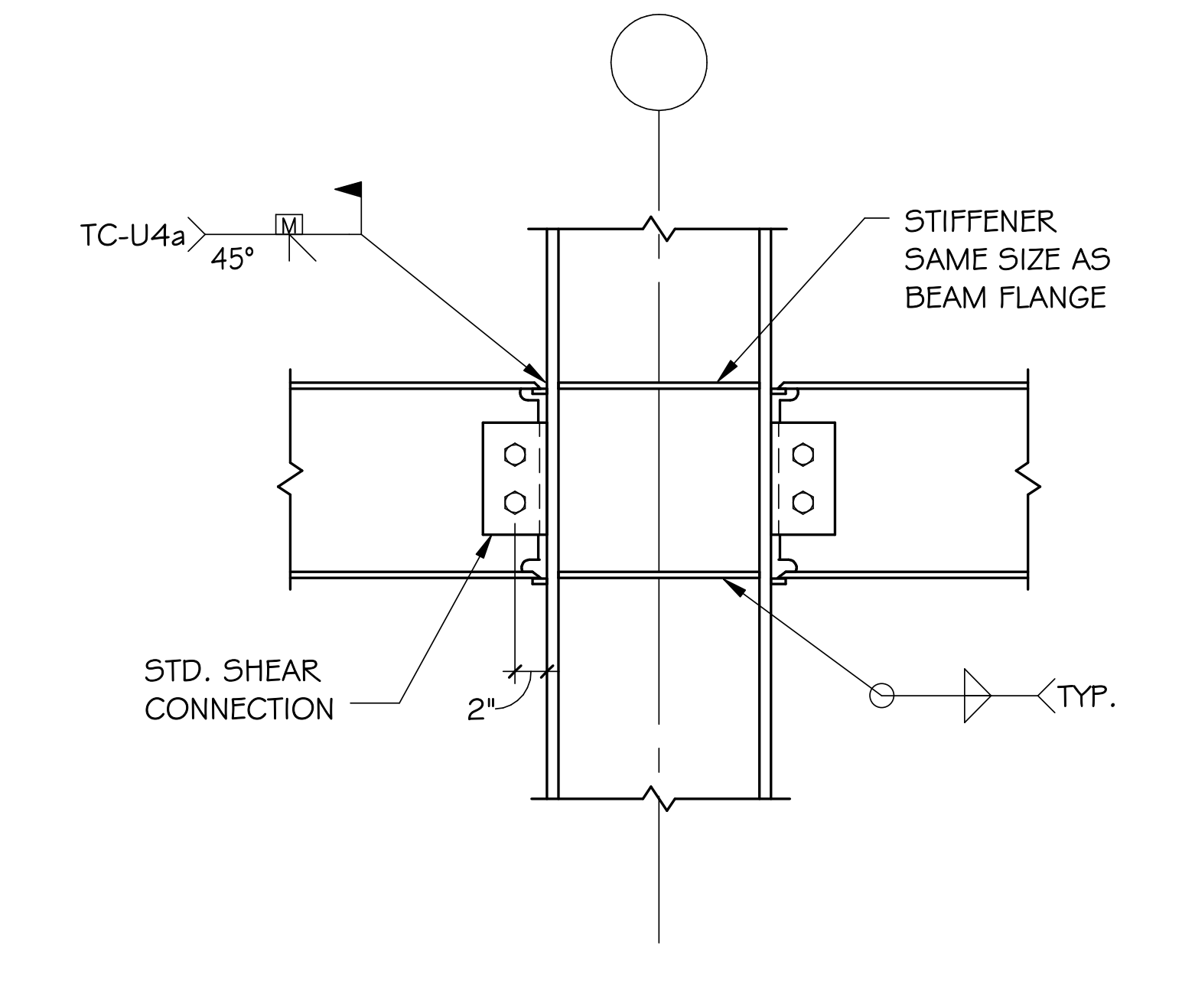


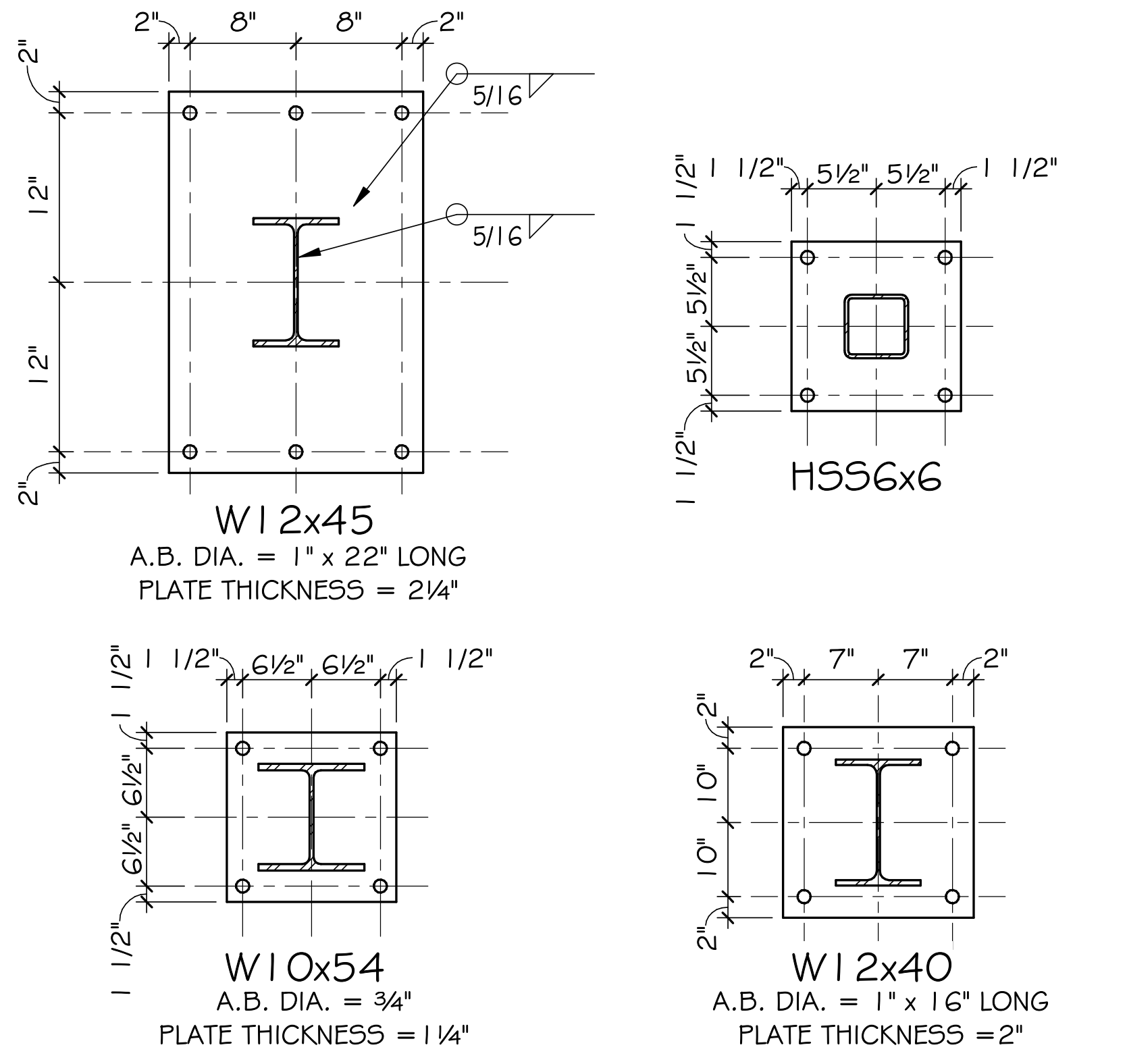
3 RIGID FRAME CONNECTION

SCALE: NONE



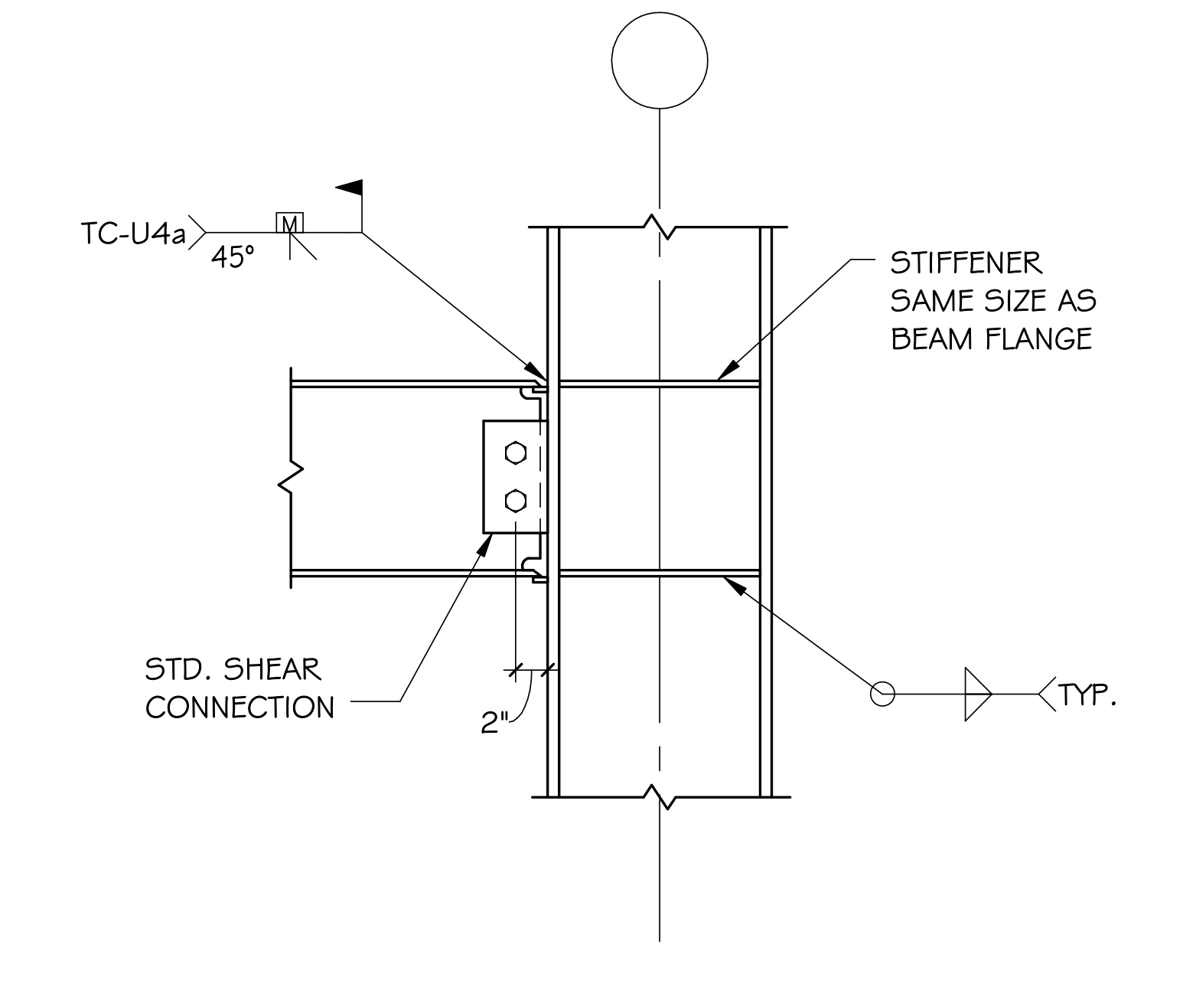
4 RIGID FRAME CONNECTION

SCALE: NONE



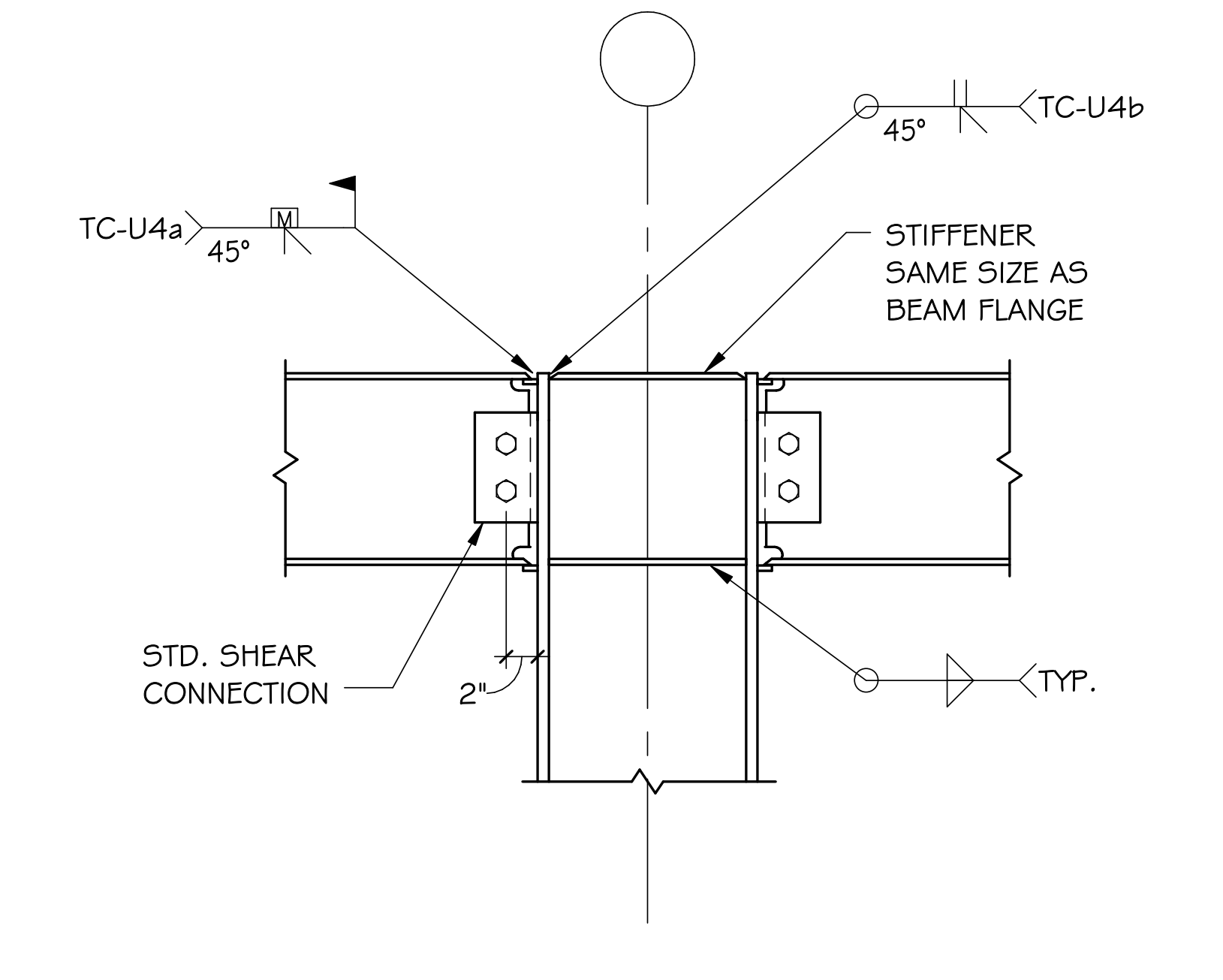
5 SECTION

SCALE: NONE



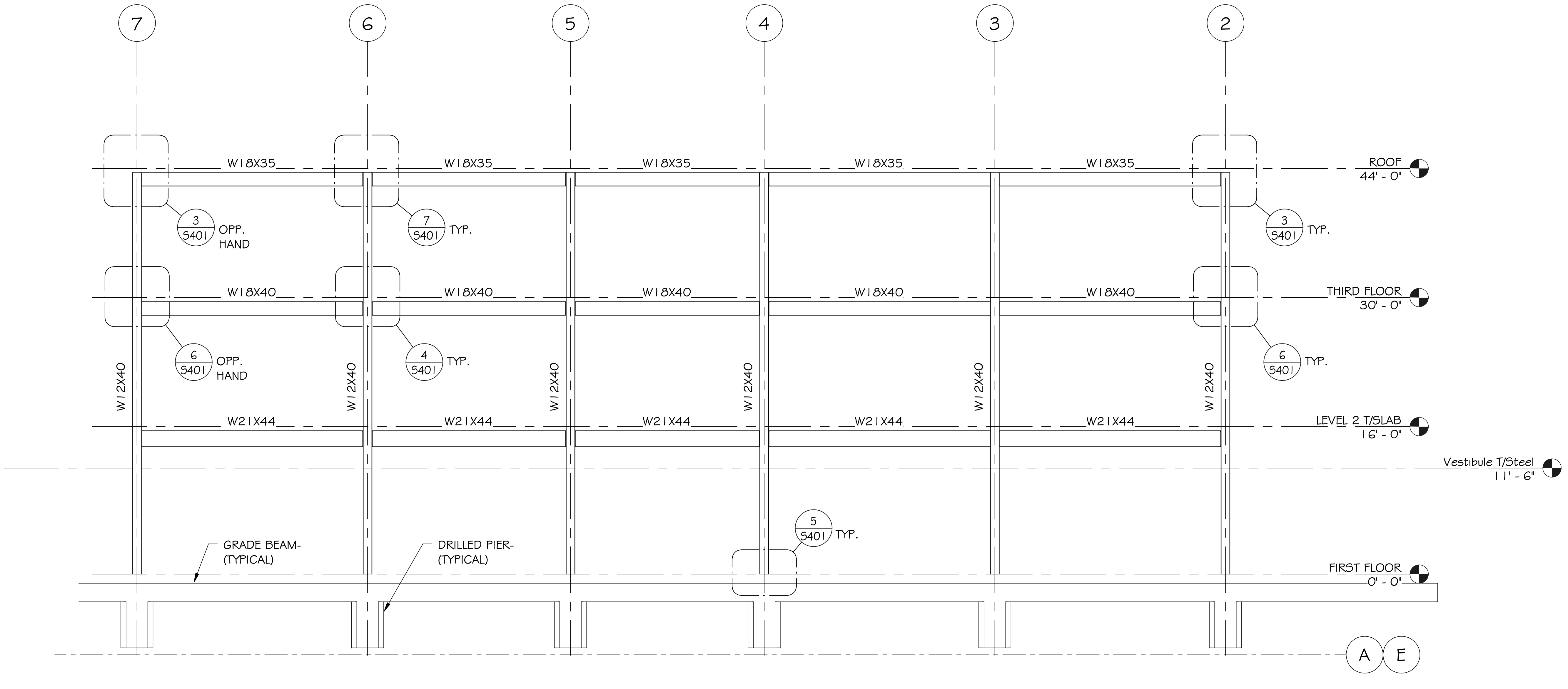
6 RIGID FRAME CONNECTION

SCALE: NONE



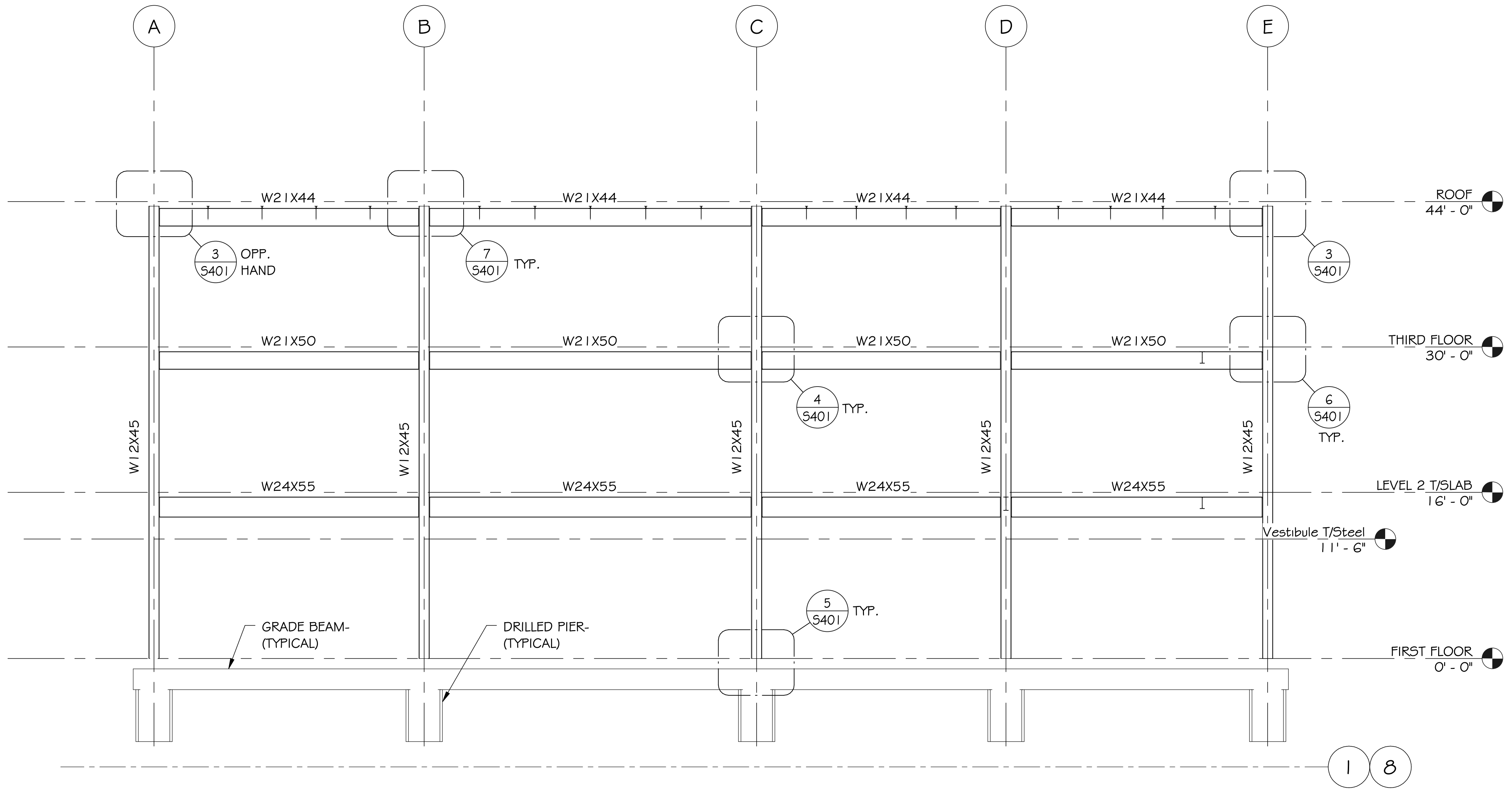
7 RIGID FRAME CONNECTION

SCALE: NONE



1 MOMENT FRAME #1

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



2 MOMENT FRAME #2

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

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CLIENT PROJECT NUMBER: 123456789

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS: CONSTRUCTION DOCUMENTS

DANIEL K. BORSOS
NUMBER PE-024916
2-15-19

DATES OF ISSUANCE
02/15/19
△

EMC
STRUCTURAL ENGINEERS, P.C.
4525 Trousdale Drive
Nashville, Tennessee 37204
(615) 781-8199
www.emcnashville.com

17153_R16

TITLE: MOMENT FRAME ELEVATIONS

SHEET: S401

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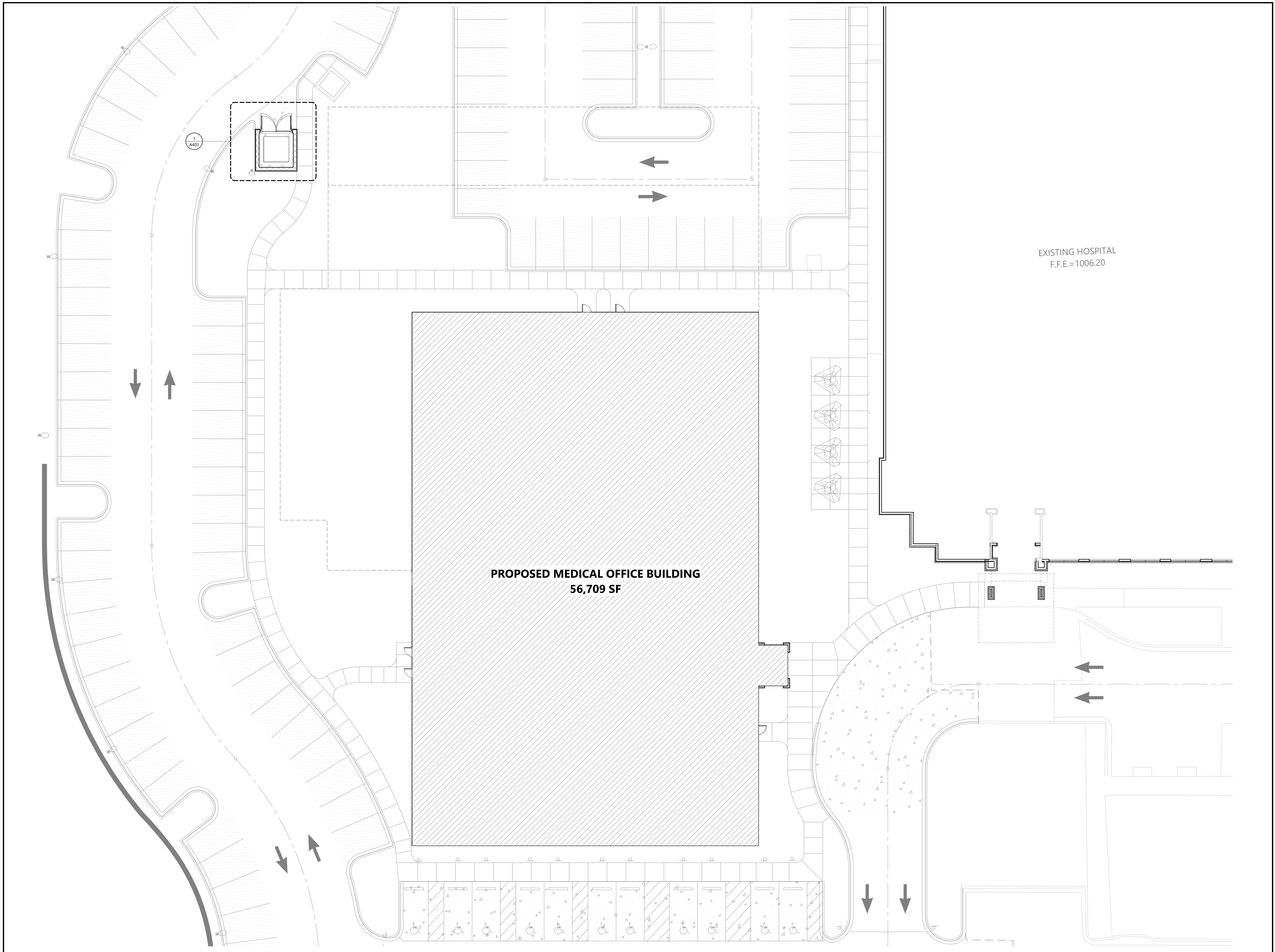
2/15/2019 4:30:25 PM



1 LEVEL 1 - NOTE PLAN Copy for 1/16" scale asc
SCALE: 3/32" = 1'-0"

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
5-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19
△
△
△

TITLE
SITE ORIENTATION PLAN

SHEET
A100

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 5:58:28 PM

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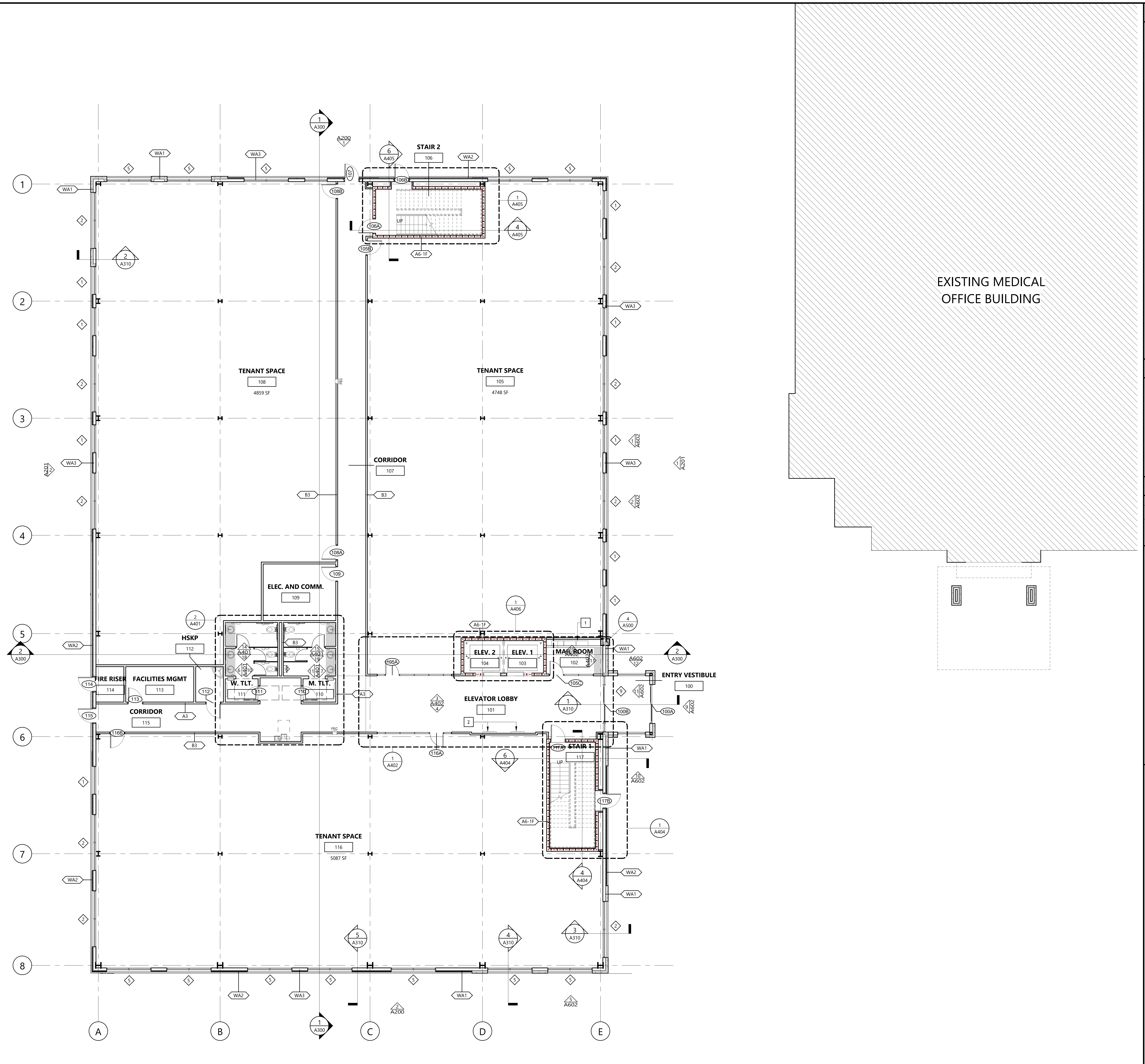
2/18/2019 5:58:30 PM



1 LEVEL 1 - NOTE PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 32'

FLOOR PLAN NOTES

1. G.C. SHALL VERIFY DIMENSIONS OF OWNER FURNISHED EQUIPMENT AND COORDINATE INSTALLATION WITH ALL TRADES WHERE REQUIRED.
2. GYPSUM BOARD SHALL BE OMITTED BELOW THE WINDOW KNEE-WALL (TO ~3'-0" A.F.F) ON THE INTERIOR SIDE OF THE EXTERIOR WALLS IN ALL TENANT SPACES.
3. ALL COMMON CORRIDORS WILL BE PROVIDED WITH 8' HIGH, COMMERCIAL-GRADE PLASTIC PARTITION PROTECTION AT ALL OUTSIDE CORNERS.
4. G.C. SHALL INSTALL IN-WALL METAL BACKING FOR ALL PARTITION-MOUNTED EQUIPMENT, ACCESSORIES, PARTITION STOPS, ETC.
5. G.C. SHALL INSTALL FIRE-RETARDANT WOOD BLOCKING WITHIN WALLS BASED ON CASEWORK ELEVATIONS AND ALL INTERIOR PARTITION ELEVATIONS.
6. ALL INTERIOR WALLS SHALL RECEIVE 5/8" TYPE 'X' GYPSUM BOARD.
7. G.C. SHALL PROVIDE UL APPROVED FIRE-RESISTIVE PENETRATION SYSTEMS WHERE PLUMBING IS LOCATED IN A FIRE-RATED PARTITION ASSEMBLY.
8. ALL CORRIDOR WALLS SHALL BE CONSTRUCTED AS NON-RATED SMOKE PARTITIONS.
9. EXTEND ALL RATED WALLS TO DECK PER UL ASSEMBLY REQUIREMENTS. REFER TO G003 FOR INTERIOR PARTITION TYPES & DETAILS.
10. REFER TO G003 FOR RATED PARTITION PRIORITY AND RATED PARTITION INTERSECTIONS.

PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
♦—♦—♦—♦—♦	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note
1	MAILBOXES ARE TO BE LOCATED ON THIS WALL. REFER TO VENDOR DRAWINGS FOR SIZING SPECS.
2	PROVIDE POWER & DATA OUTLETS FOR TWO WAYFINDING MONITORS LOCATED HERE. GC IS TO PROVIDE ELECTRICAL AND DATA CONNECTIONS ONLY. THE OWNER WILL PROVIDE THE WAYFINDING MONITORS.

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PROJECT #
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CLIENT PROJECT NUMBER: N/A

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STATUS
CONSTRUCTION DOCUMENTS

WILLIAM E. HEREFORD III

02/15/19

DATES OF ISSUANCE

TITLE
FIRST FLOOR PLAN - NOTED

SHEET
A111

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2/18/2019 5:58:31 PM
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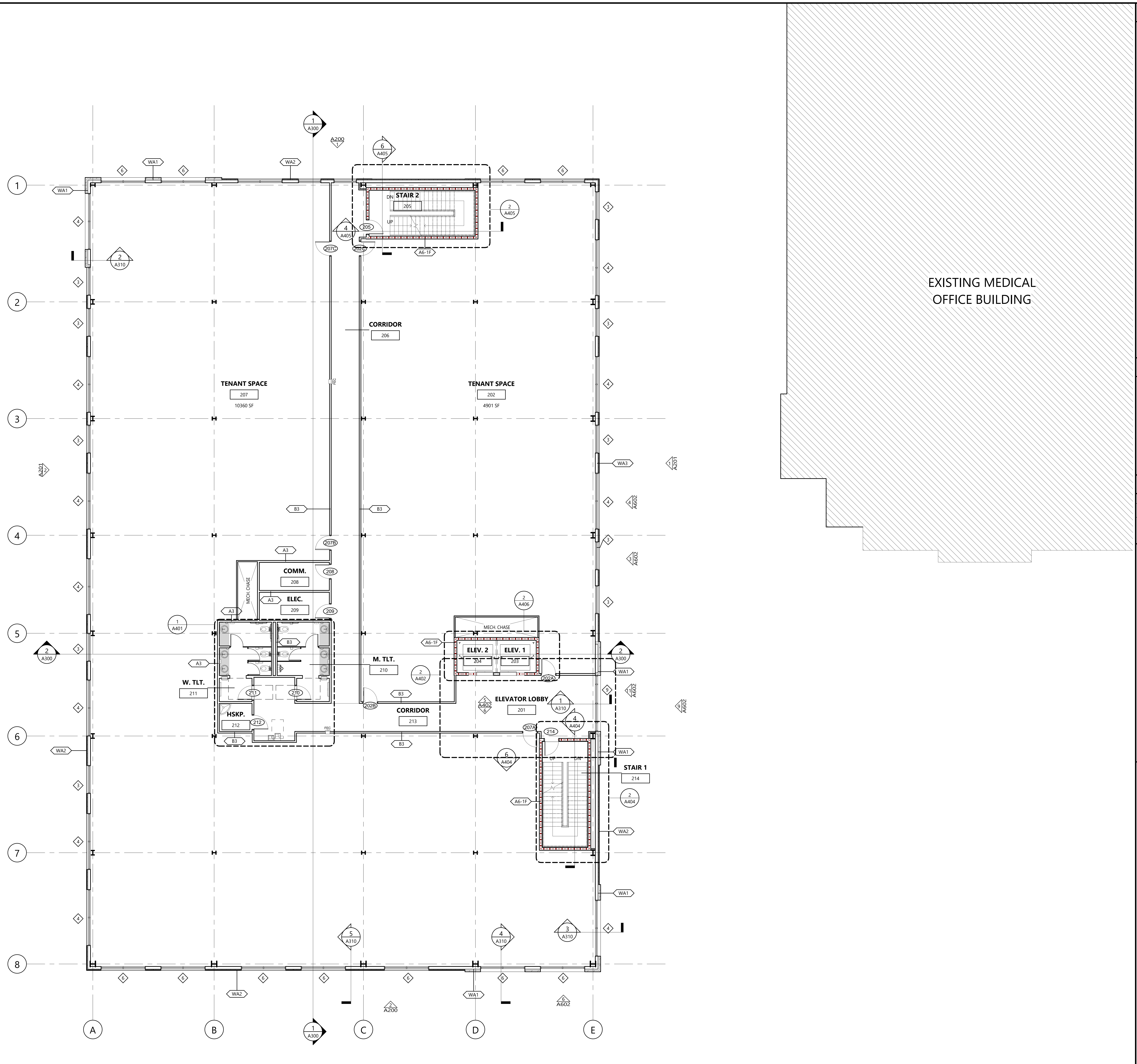

1 LEVEL 2 - NOTE PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. G.C. SHALL VERIFY DIMENSIONS OF OWNER FURNISHED EQUIPMENT AND COORDINATE INSTALLATION WITH ALL TRADES WHERE REQUIRED.
2. GYPSUM BOARD SHALL BE OMITTED BELOW THE WINDOW KNEE-WALL (TO ~3'-0" A.F.F) ON THE INTERIOR SIDE OF THE EXTERIOR WALLS IN ALL TENANT SPACES.
3. ALL COMMON CORRIDORS WILL BE PROVIDED WITH 8' HIGH, COMMERCIAL-GRADE PLASTIC PARTITION PROTECTION AT ALL OUTSIDE CORNERS.
4. G.C. SHALL INSTALL IN-WALL METAL BACKING FOR ALL PARTITION-MOUNTED EQUIPMENT, ACCESSORIES, PARTITION STOPS, ETC.
5. G.C. SHALL INSTALL FIRE-RETARDANT WOOD BLOCKING WITHIN WALLS BASED ON CASEWORK ELEVATIONS AND ALL INTERIOR PARTITION ELEVATIONS.
6. ALL INTERIOR WALLS SHALL RECEIVE 5/8" TYPE 'X' GYPSUM BOARD.
7. G.C. SHALL PROVIDE UL APPROVED FIRE-RESISTIVE PENETRATION SYSTEMS WHERE PLUMBING IS LOCATED IN A FIRE-RATED PARTITION ASSEMBLY.
8. ALL CORRIDOR WALLS SHALL BE CONSTRUCTED AS NON-RATED SMOKE PARTITIONS.
9. EXTEND ALL RATED WALLS TO DECK PER UL ASSEMBLY REQUIREMENTS. REFER TO G003 FOR INTERIOR PARTITION TYPES & DETAILS.
10. REFER TO G003 FOR RATED PARTITION PRIORITY AND RATED PARTITION INTERSECTIONS.

PARTITION FIRE RATING LEGEND

S———S———S	SMOKE PARTITION
♦—♦—♦—♦—♦	1-HR FIRE BARRIER
♦S——♦S——♦S	1-HR FIRE/SMOKE BARRIER
♦♦——♦♦——♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note
1	MAILBOXES ARE TO BE LOCATED ON THIS WALL. REFER TO VENDOR DRAWINGS FOR SIZING SPECS.
2	PROVIDE POWER & DATA OUTLETS FOR TWO WAYFINDING MONITORS LOCATED HERE. GC IS TO PROVIDE ELECTRICAL AND DATA CONNECTIONS ONLY. THE OWNER WILL PROVIDE THE WAYFINDING MONITORS.

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2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

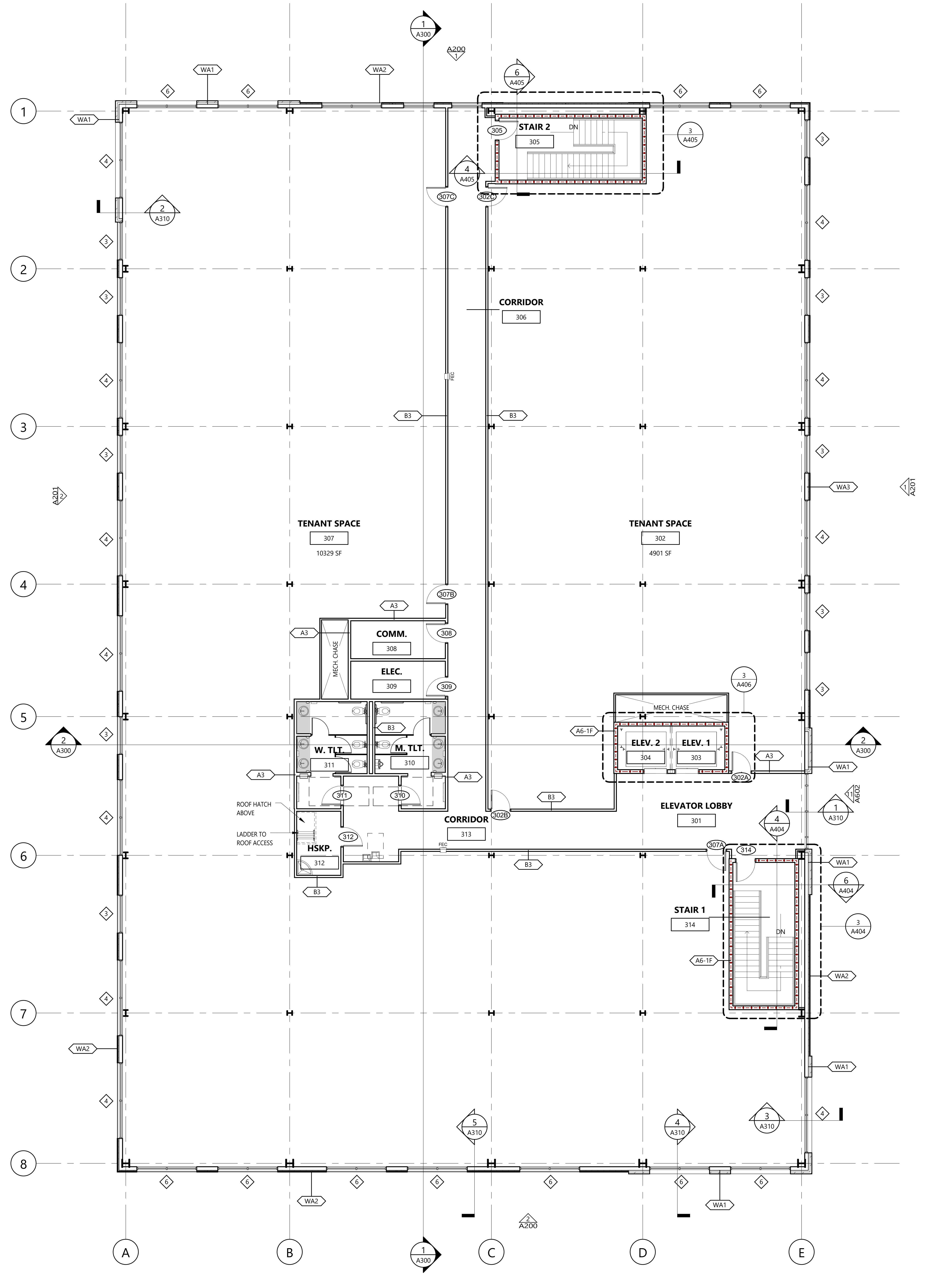
WILLIAM E. HEREFORD III
02/15/19

DATES OF ISSUANCE

TITLE
SECOND FLOOR PLAN - NOTED

0' 4' 8' 16' 32'

SHEET
A112



1 LEVEL 3 - NOTE PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. G.C. SHALL VERIFY DIMENSIONS OF OWNER FURNISHED EQUIPMENT AND COORDINATE INSTALLATION WITH ALL TRADES WHERE REQUIRED.
2. GYPSUM BOARD SHALL BE OMITTED BELOW THE WINDOW KNEE-WALL (TO ~3'-0" A.F.F) ON THE INTERIOR SIDE OF THE EXTERIOR WALLS IN ALL TENANT SPACES.
3. ALL COMMON CORRIDORS WILL BE PROVIDED WITH 8' HIGH, COMMERCIAL-GRADE PLASTIC PARTITION PROTECTION AT ALL OUTSIDE CORNERS.
4. G.C. SHALL INSTALL IN-WALL METAL BACKING FOR ALL PARTITION-MOUNTED EQUIPMENT, ACCESSORIES, PARTITION STOPS, ETC.
5. G.C. SHALL INSTALL FIRE-RETARDANT WOOD BLOCKING WITHIN WALLS BASED ON CASEWORK ELEVATIONS AND ALL INTERIOR PARTITION ELEVATIONS.
6. ALL INTERIOR WALLS SHALL RECEIVE 5/8" TYPE 'X' GYPSUM BOARD.
7. G.C. SHALL PROVIDE UL APPROVED FIRE-RESISTIVE PENETRATION SYSTEMS WHERE PLUMBING IS LOCATED IN A FIRE-RATED PARTITION ASSEMBLY.
8. ALL CORRIDOR WALLS SHALL BE CONSTRUCTED AS NON-RATED SMOKE PARTITIONS.
9. EXTEND ALL RATED WALLS TO DECK PER UL ASSEMBLY REQUIREMENTS. REFER TO G003 FOR INTERIOR PARTITION TYPES & DETAILS.
10. REFER TO G003 FOR RATED PARTITION PRIORITY AND RATED PARTITION INTERSECTIONS.

PARTITION FIRE RATING LEGEND

S — S — S	SMOKE PARTITION
◆ — ◆ — ◆ — ◆ — ◆	1-HR FIRE BARRIER
◆S — ◆S — ◆S	1-HR FIRE/SMOKE BARRIER
◆◆ — ◆◆ — ◆◆	2-HR FIRE BARRIER
◆◆S — ◆◆S — ◆◆S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note
1	MAILBOXES ARE TO BE LOCATED ON THIS WALL. REFER TO VENDOR DRAWINGS FOR SIZING SPECS.
2	PROVIDE POWER & DATA OUTLETS FOR TWO WAYFINDING MONITORS LOCATED HERE. GC IS TO PROVIDE ELECTRICAL AND DATA CONNECTIONS ONLY. THE OWNER WILL PROVIDE THE WAYFINDING MONITORS.

0' 4' 8' 16' 32'

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY A-7733
15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
THIRD FLOOR PLAN - NOTED

SHEET
A113

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
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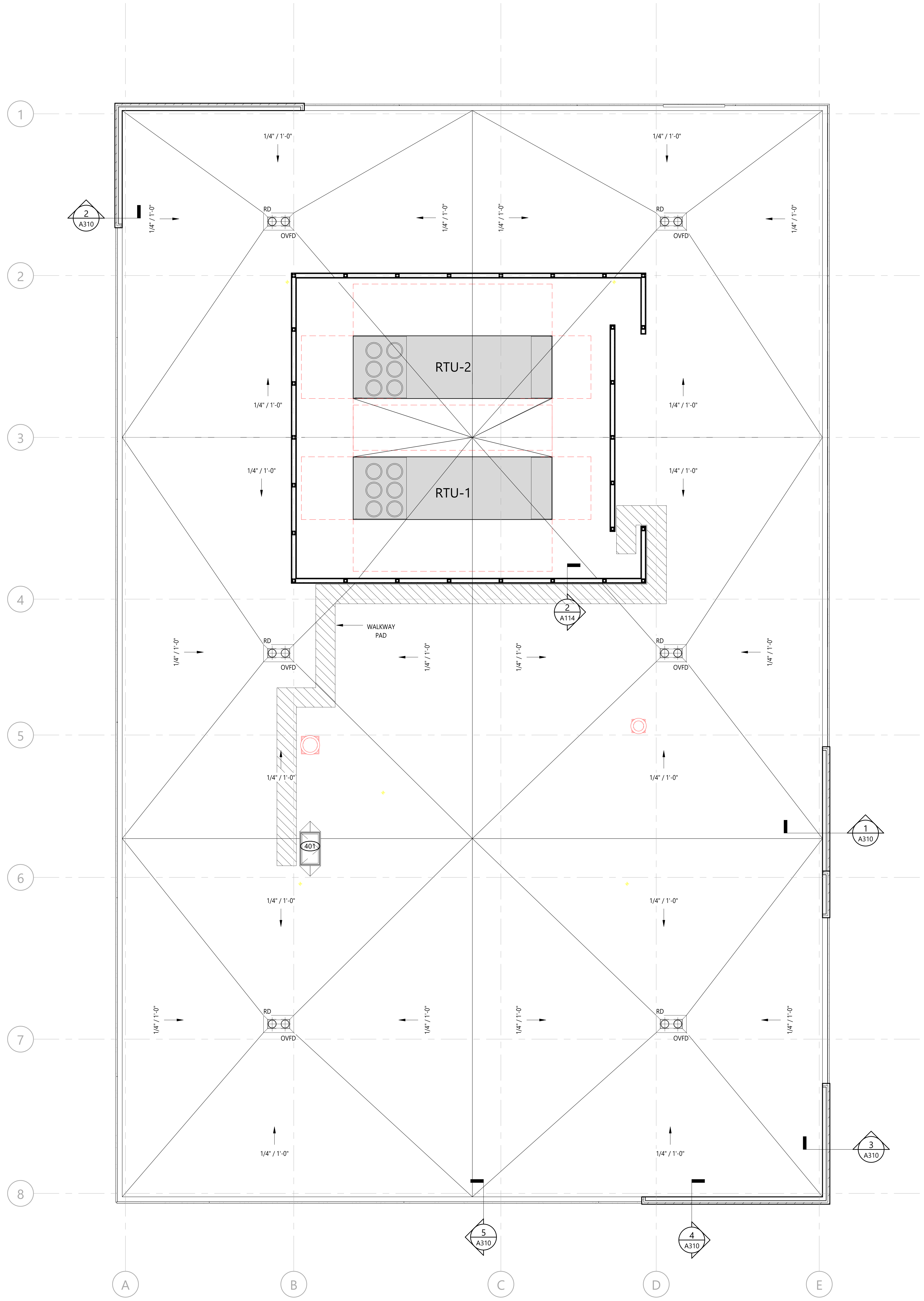
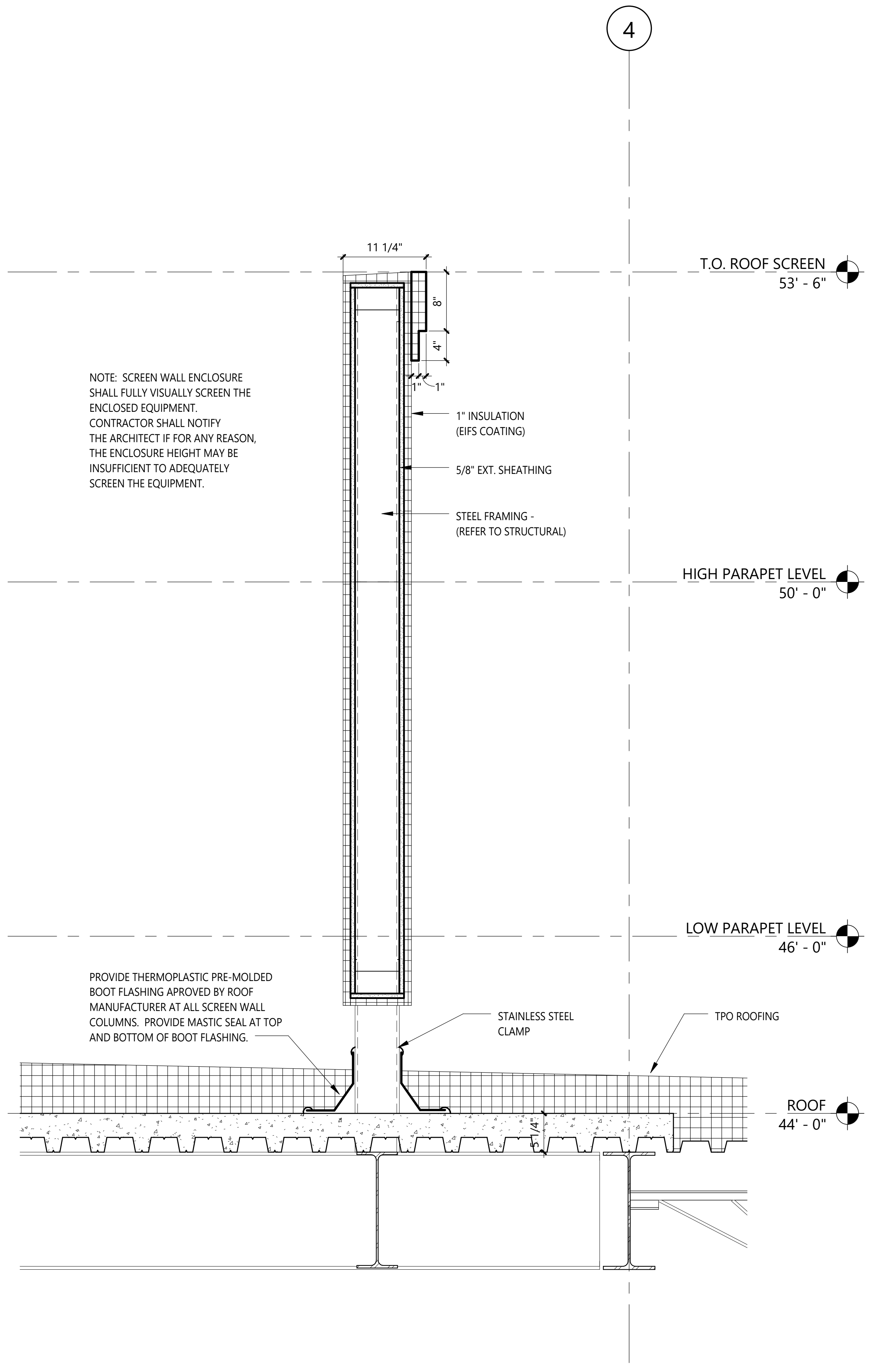


1 LEVEL ROOF - NOTE PLAN
SCALE: 1/8" = 1'-0"



NOTE: SCREEN WALL ENCLOSURE SHALL FULLY VISUALLY SCREEN THE ENCLOSED EQUIPMENT. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF FOR ANY REASON, THE ENCLOSURE HEIGHT MAY BE INSUFFICIENT TO ADEQUATELY SCREEN THE EQUIPMENT.

PROVIDE THERMOPLASTIC PRE-MOLDED BOOT FLASHING APROVED BY ROOF MANUFACTURER AT ALL SCREEN WALL COLUMNS. PROVIDE MASTIC SEAL AT TOP AND BOTTOM OF BOOT FLASHING.

2 SECTION - ROOF SCREEN
SCALE: 1" = 1'-0"

ROOF PLAN NOTES

1. REFERENCE SHEET A530 AND A531 FOR TYPICAL ROOF DETAILS.
2. VERIFY ALL MECHANICAL ROOF PENETRATION OPENING LOCATIONS AND SIZES WITH MEP SHEETS AND EQUIPMENT CUT SHEETS.

PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
♦–♦–♦–♦–♦	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note

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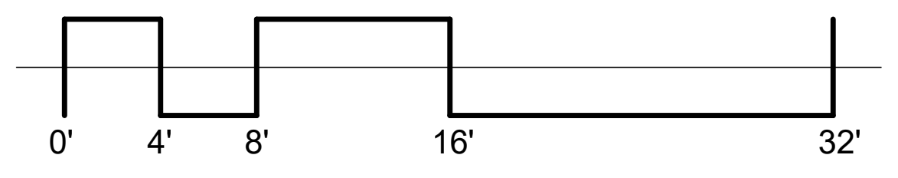
THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
ROOF PLAN - NOTED

SHEET
A114



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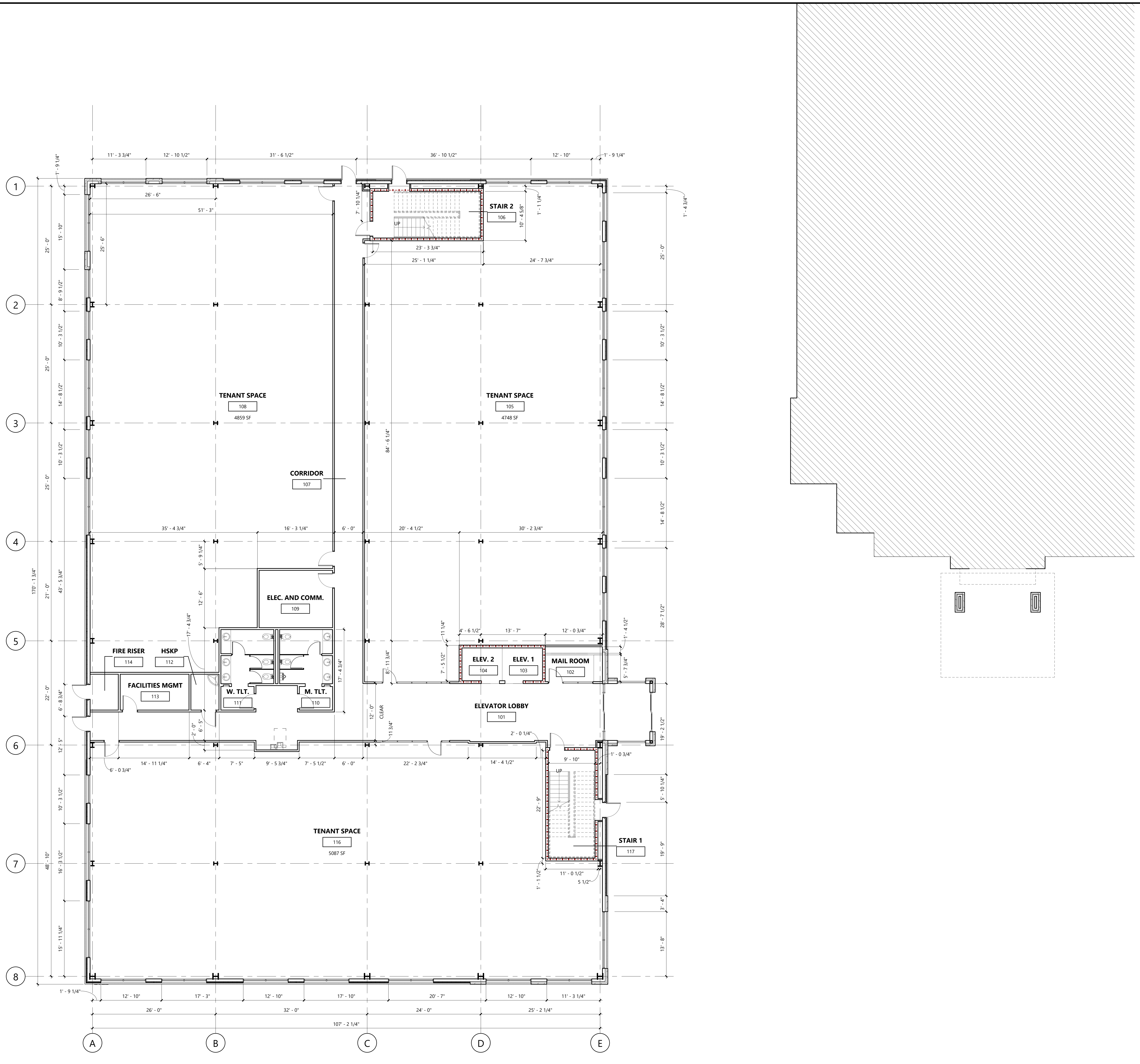

1 LEVEL 1 - DIMENSION PLAN
SCALE: 1/8" = 1'-0"

DIMENSION PLAN NOTES

1. UNLESS OTHERWISE NOTED, DIMENSIONING ON PLANS IS AS FOLLOWS:
   - -TO FACE OF MASONRY
   - -TO FACE OF CONCRETE
   - -TO FACE OF STUD IN FRAMED PARTITIONS
   - -GRIDLINES: TO CENTER LINE OF COLUMNS
2. DOOR OPENINGS NOT LOCATED BY DIMENSIONS ARE EITHER CENTERED IN THE WALL OR ARE LOCATED 5" FROM FINISH WALL TO INSIDE FACE OF JAMB.
3. TYPICAL PARTITION TYPE IS 'A3' UNLESS NOTED OTHERWISE.
4. TYPICAL PARTITION TYPE AROUND PERIMETER OF EXTERIOR WALLS IS 'B3' UNLESS NOTED OTHERWISE.
5. TYPICAL PARTITION TYPE AT COLUMN FURR OUTS IS '___' UNLESS NOTED OTHERWISE.
6. SEE ENLARGED PLAN DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. ANY DISCREPANCIES MUST BE COORDINATED WITH THE ARCHITECT BEFORE PROCEEDING.
7. DIMENSIONS WITH THE NOTE 'CLEAR' INDICATES DIMENSION IS FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO CIVIL PLANS TO VERIFY FOOTPRINT LOCATION.
9. ALL ROOFING MATERIAL WILL BE SUBMITTED BY THE ROOFING SUB-CONTRACTOR AS A DEFFERED SUBMITTAL SHOWING A MIN. R-25 THICKNESS OF TAPERED INSULATION.

PARTITION FIRE RATING LEGEND

S——S——S	SMOKE PARTITION
♦—♦—♦—♦—♦	1-HR FIRE BARRIER
♦S——♦S——♦S	1-HR FIRE/SMOKE BARRIER
♦♦——♦♦——♦♦	2-HR FIRE BARRIER
♦♦S——♦♦S——♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

Note Number	Note

0' 4' 8' 16' 32'

HEREFORD · DOOLEY
A R C H I T E C T S

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CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
FIRST FLOOR PLAN - DIMENSION

SHEET
A121

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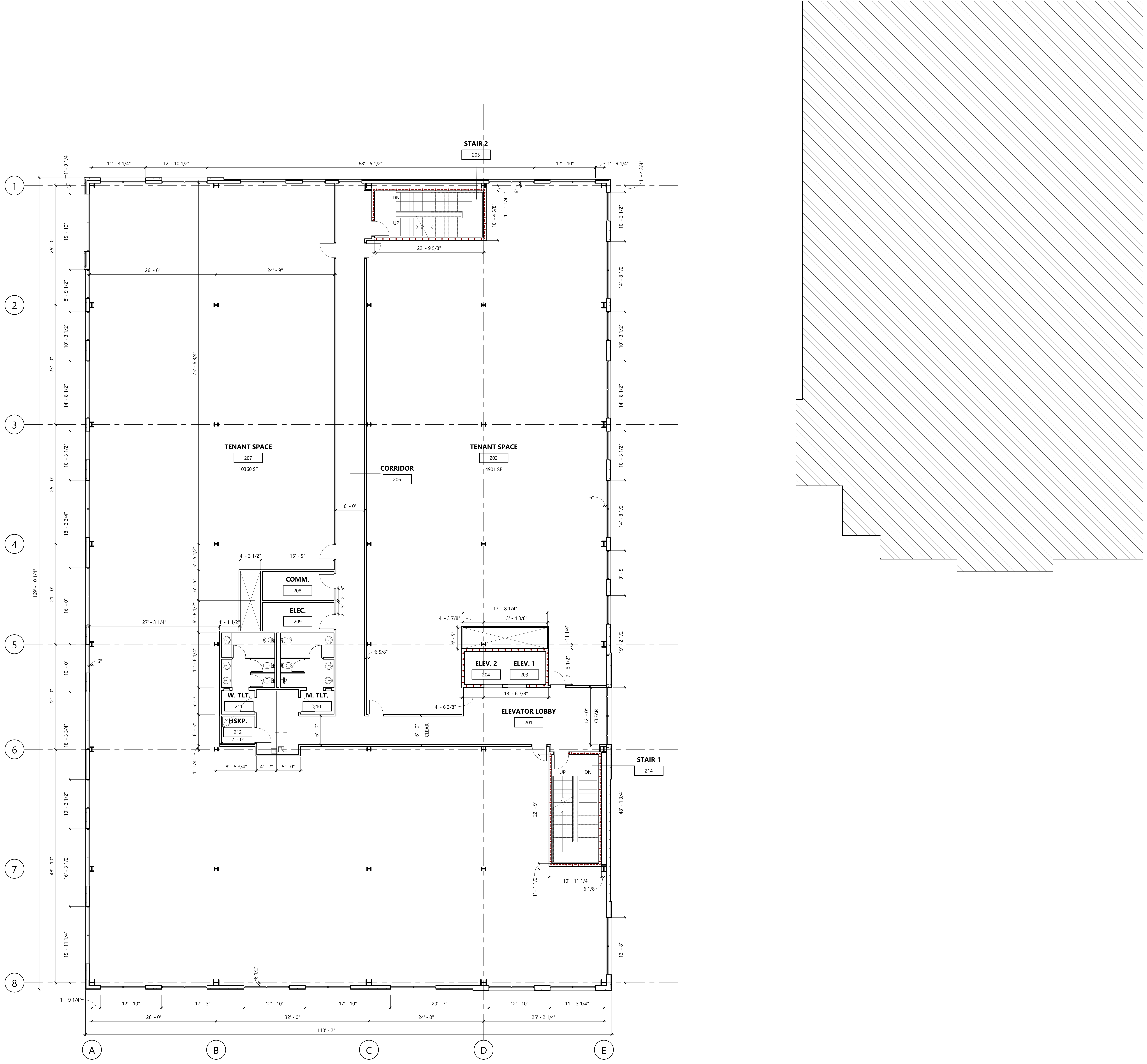

LEVEL 2 - DIMENSION PLAN

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

DIMENSION PLAN NOTES

1. UNLESS OTHERWISE NOTED, DIMENSIONING ON PLANS IS AS FOLLOWS:
    - -TO FACE OF MASONRY
    - -TO FACE OF CONCRETE
    - -TO FACE OF STUD IN FRAMED PARTITIONS
    - -GRIDLINES: TO CENTER LINE OF COLUMNS
2. DOOR OPENINGS NOT LOCATED BY DIMENSIONS ARE EITHER CENTERED IN THE WALL OR ARE LOCATED 5" FROM FINISH WALL TO INSIDE FACE OF JAMB.
3. TYPICAL PARTITION TYPE IS 'A3' UNLESS NOTED OTHERWISE.
4. TYPICAL PARTITION TYPE AROUND PERIMETER OF EXTERIOR WALLS IS 'B3' UNLESS NOTED OTHERWISE.
5. TYPICAL PARTITION TYPE AT COLUMN FURR OUTS IS '___' UNLESS NOTED OTHERWISE.
6. SEE ENLARGED PLAN DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. ANY DISCREPANCIES MUST BE COORDINATED WITH THE ARCHITECT BEFORE PROCEEDING.
7. DIMENSIONS WITH THE NOTE 'CLEAR' INDICATES DIMENSION IS FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO CIVIL PLANS TO VERIFY FOOTPRINT LOCATION.
9. ALL ROOFING MATERIAL WILL BE SUBMITTED BY THE ROOFING SUB-CONTRACTOR AS A DEFFERED SUBMITTAL SHOWING A MIN. R-25 THICKNESS OF TAPERED INSULATION.

PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
♦—♦—♦—♦—♦	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note

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STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

02/15/19

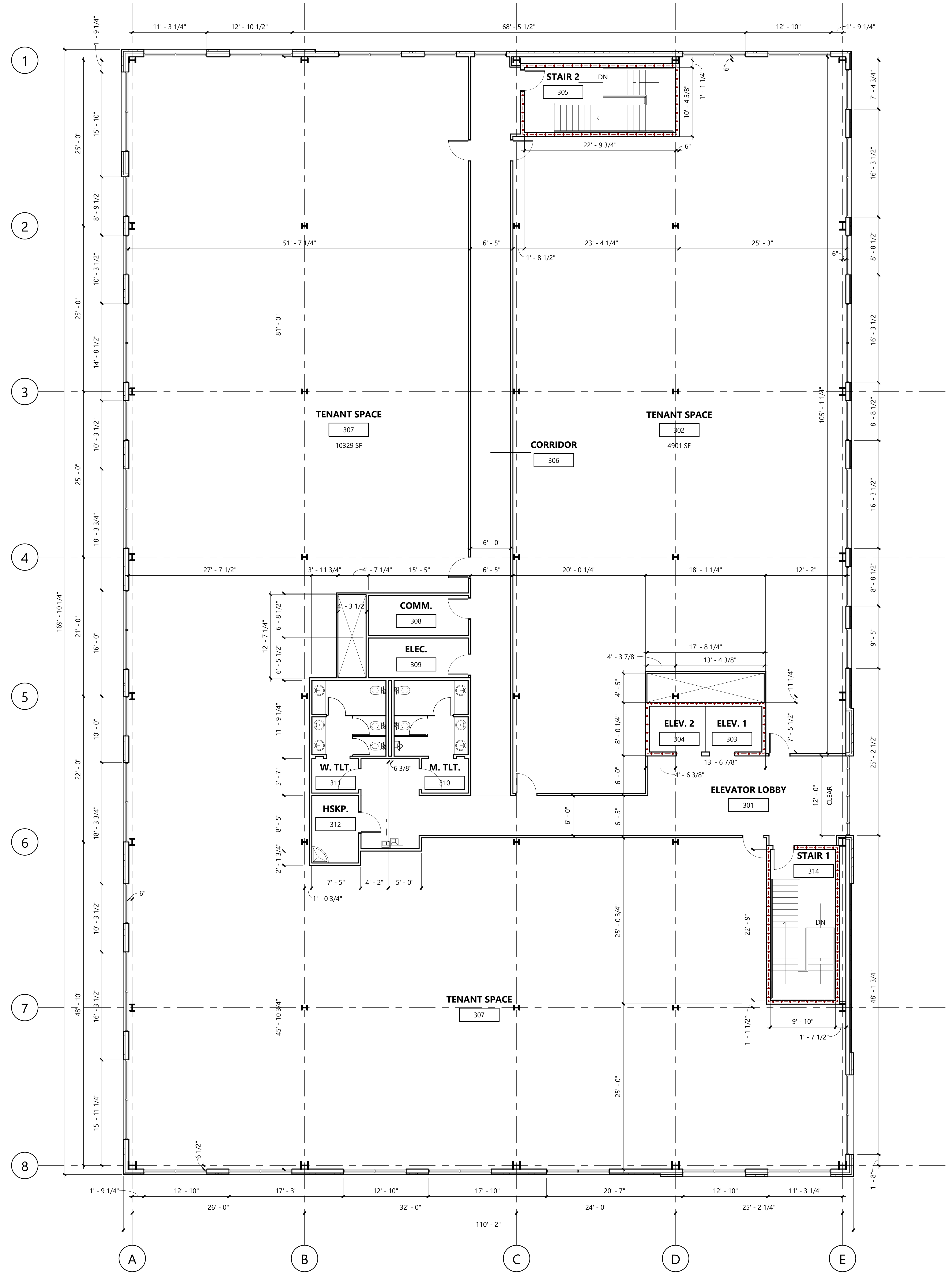
DATES OF ISSUANCE

TITLE
SECOND FLOOR PLAN - DIMENSION

0' 4' 8' 16' 32'

SHEET
A122

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 5:58:39 PM



LEVEL 3 - DIMENSION PLAN

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

DIMENSION PLAN NOTES

1. UNLESS OTHERWISE NOTED, DIMENSIONING ON PLANS IS AS FOLLOWS:
   -TO FACE OF MASONRY
   -TO FACE OF CONCRETE
   -TO FACE OF STUD IN FRAMED PARTITIONS
   -GRIDLINES: TO CENTER LINE OF COLUMNS
2. DOOR OPENINGS NOT LOCATED BY DIMENSIONS ARE EITHER CENTERED IN THE WALL OR ARE LOCATED 5" FROM FINISH WALL TO INSIDE FACE OF JAMB.
3. TYPICAL PARTITION TYPE IS 'A3' UNLESS NOTED OTHERWISE.
4. TYPICAL PARTITION TYPE AROUND PERIMETER OF EXTERIOR WALLS IS 'B3' UNLESS NOTED OTHERWISE.
5. TYPICAL PARTITION TYPE AT COLUMN FURR OUTS IS '___' UNLESS NOTED OTHERWISE.
6. SEE ENLARGED PLAN DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. ANY DISCREPANCIES MUST BE COORDINATED WITH THE ARCHITECT BEFORE PROCEEDING.
7. DIMENSIONS WITH THE NOTE 'CLEAR' INDICATES DIMENSION IS FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO CIVIL PLANS TO VERIFY FOOTPRINT LOCATION.
9. ALL ROOFING MATERIAL WILL BE SUBMITTED BY THE ROOFING SUB-CONTRACTOR AS A DEFFERED SUBMITTAL SHOWING A MIN. R-25 THICKNESS OF TAPERED INSULATION.

PARTITION FIRE RATING LEGEND

S——S——S	SMOKE PARTITION
♦–♦–♦–♦–♦	1-HR FIRE BARRIER
♦S——♦S——♦S	1-HR FIRE/SMOKE BARRIER
♦♦——♦♦——♦♦	2-HR FIRE BARRIER
♦♦S–♦♦S–♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note

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CLIENT PROJECT NUMBER: N/A

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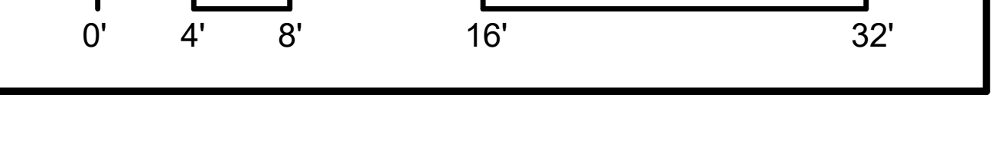
STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
THIRD FLOOR PLAN - DIMENSION



SHEET
A123

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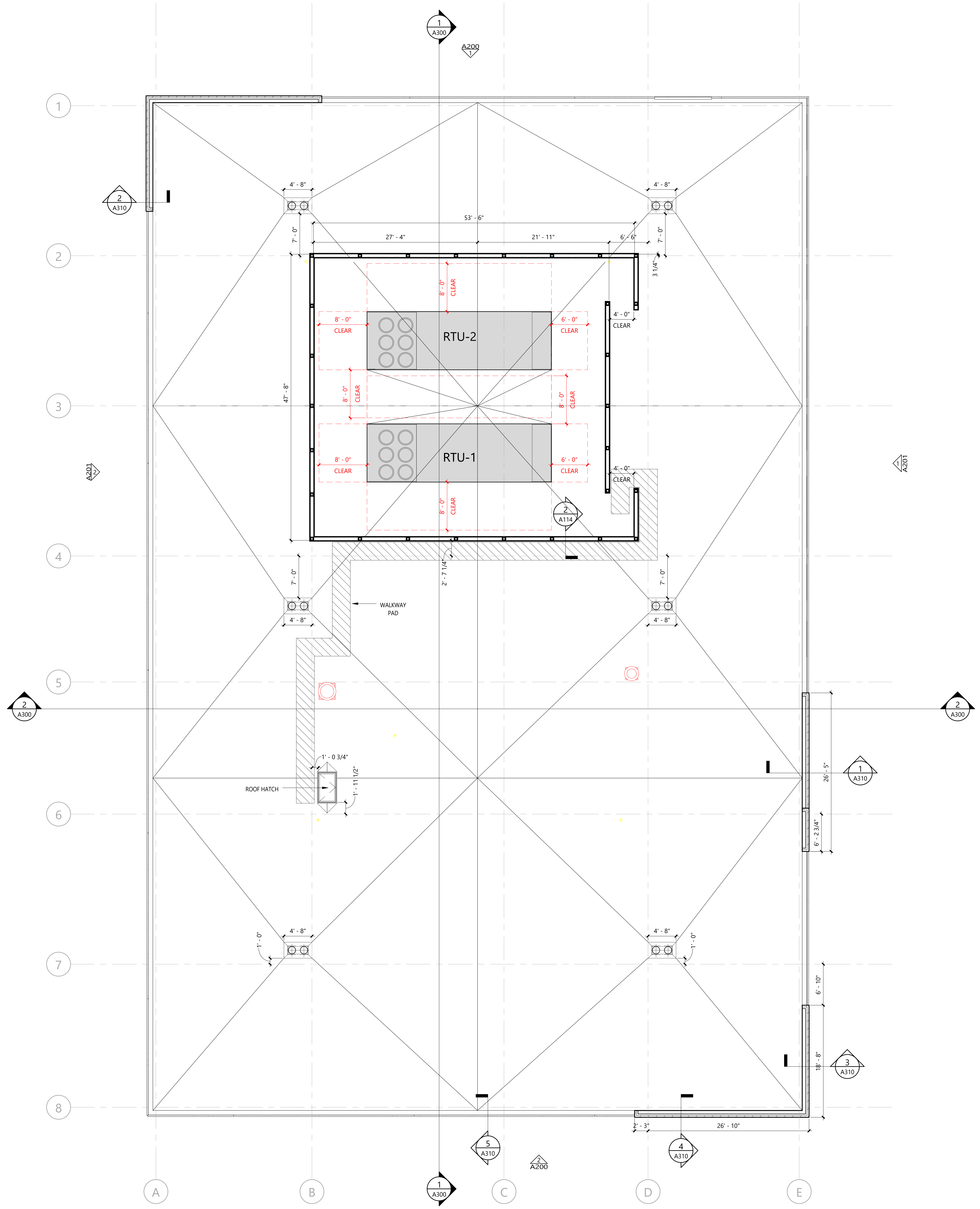
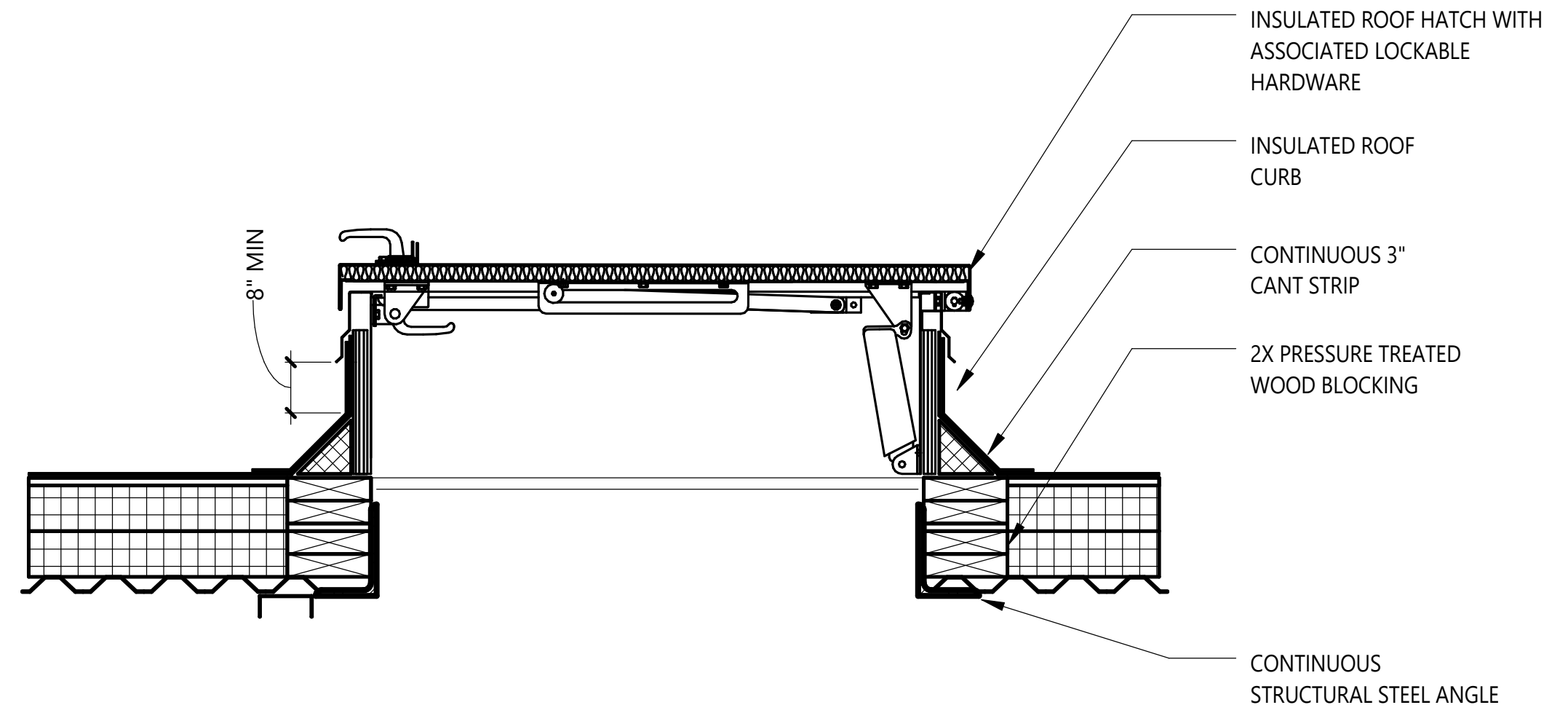
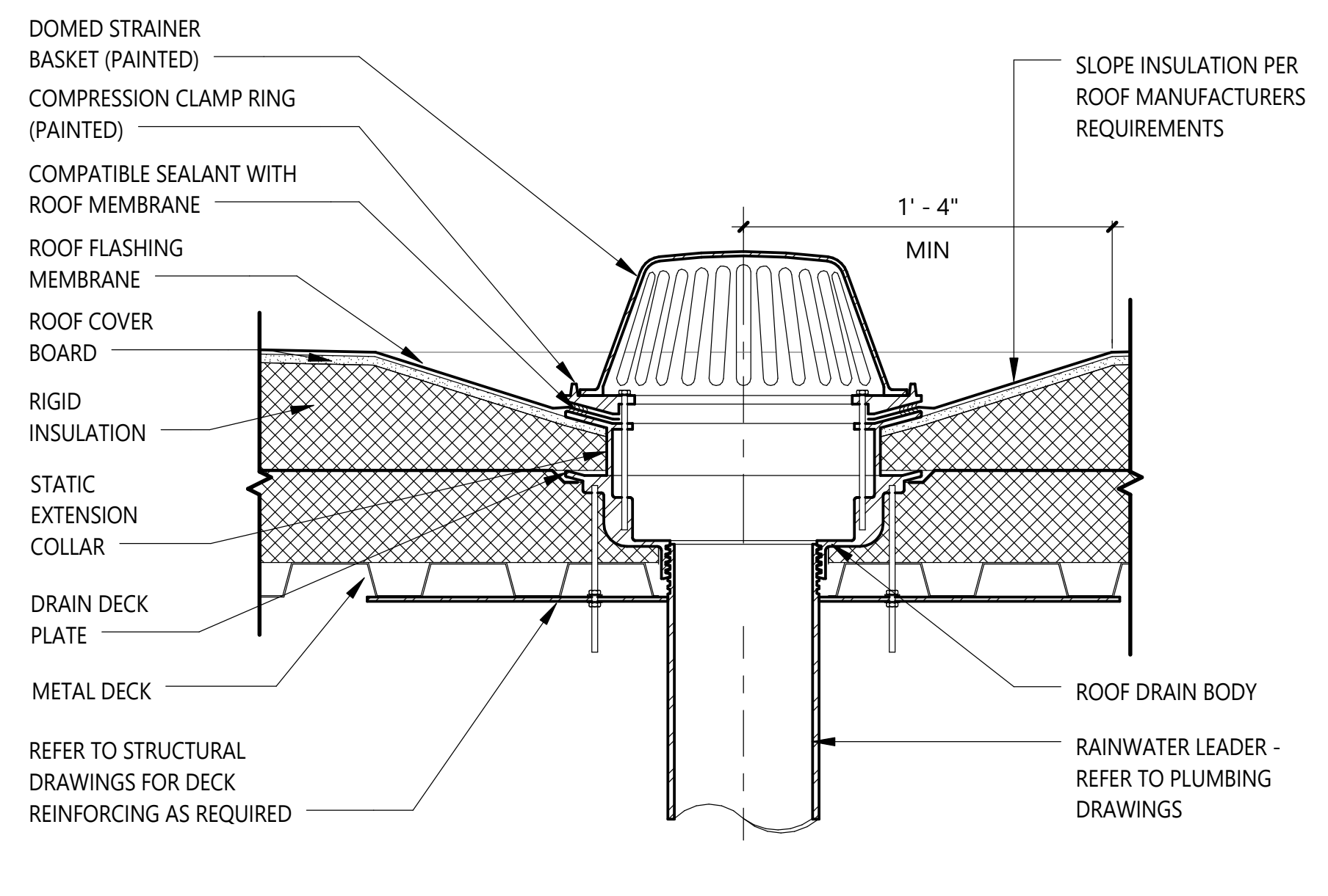


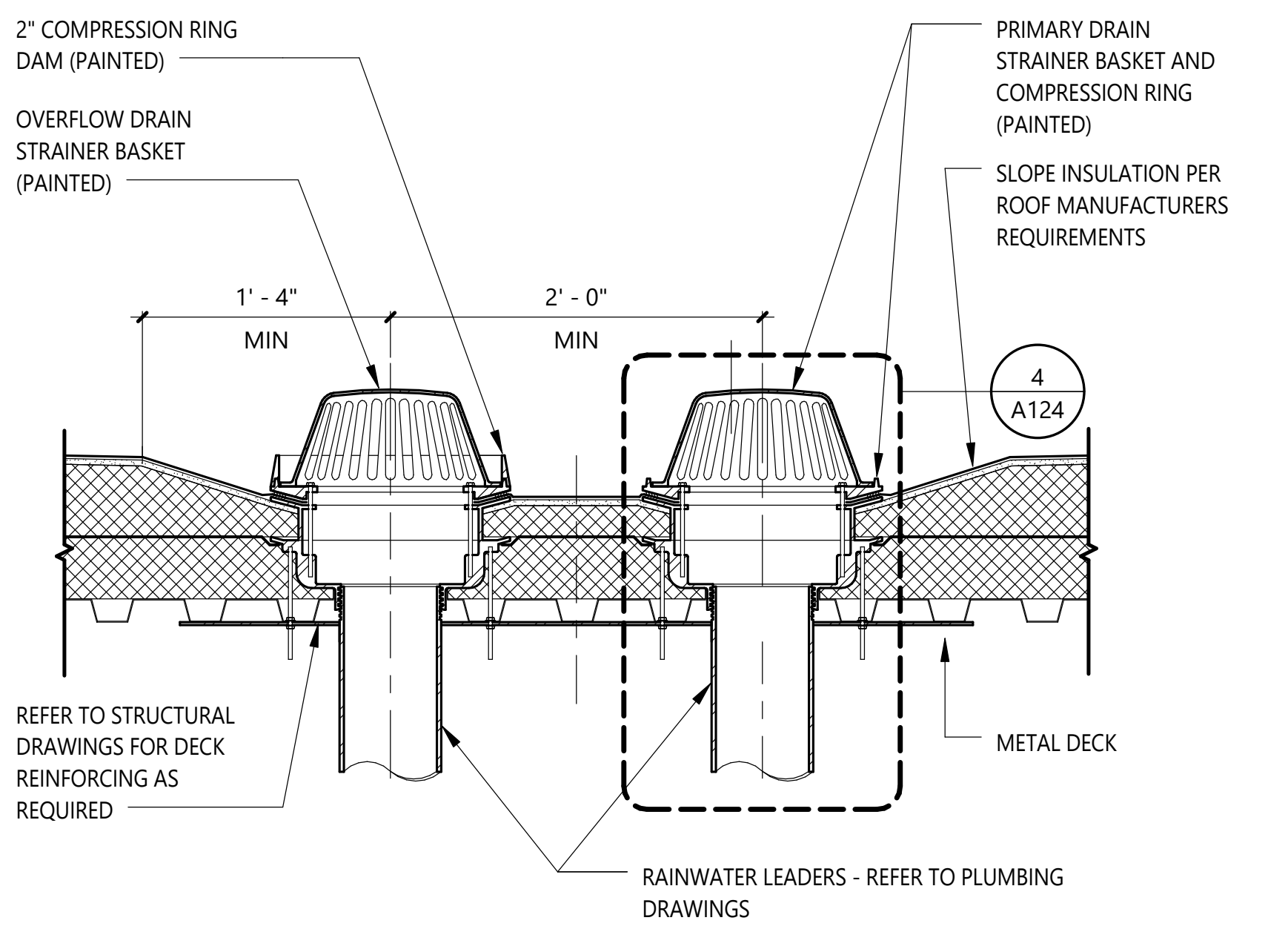
1 LEVEL ROOF - DIMENSION PLAN
SCALE: 1/8" = 1'-0"


8" MIN
INSULATED ROOF HATCH WITH ASSOCIATED LOCKABLE HARDWARE
INSULATED ROOF CURB
CONTINUOUS 3" CANT STRIP
2X PRESSURE TREATED WOOD BLOCKING
CONTINUOUS STRUCTURAL STEEL ANGLE

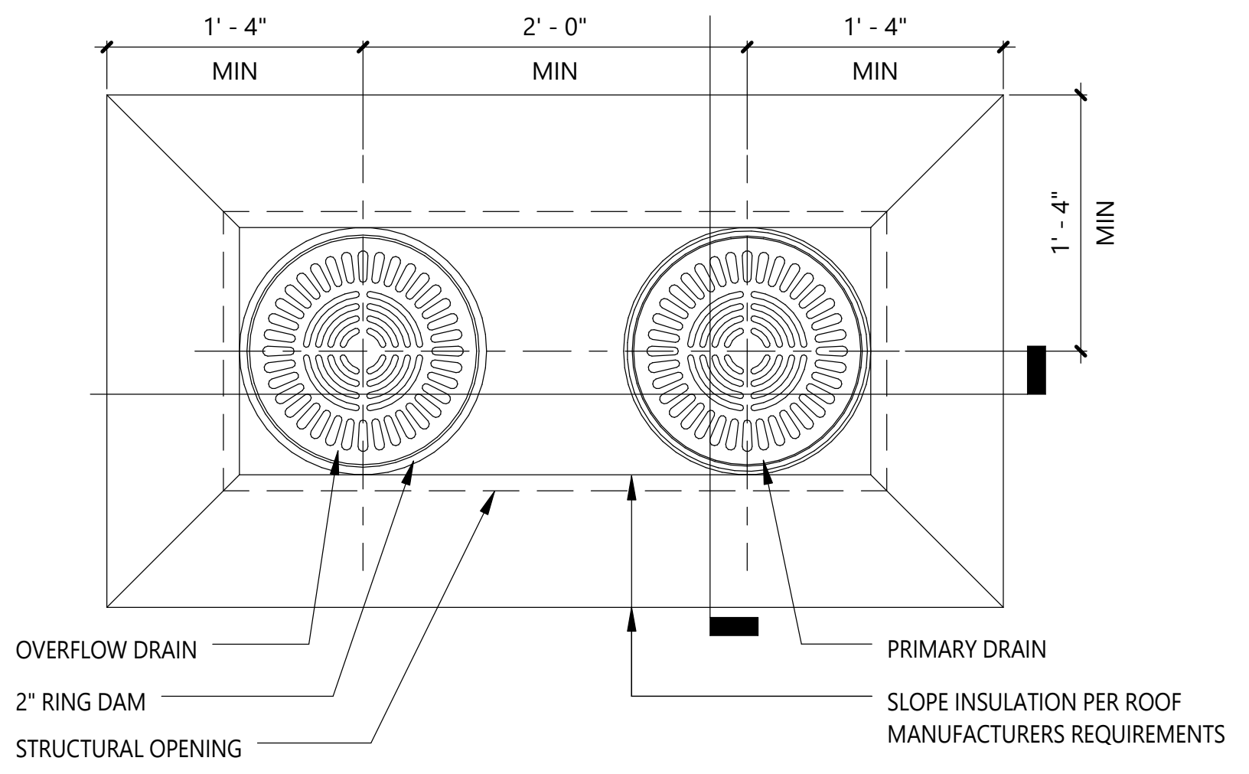
5 ROOF HATCH DETAIL
SCALE: 1" = 1'-0"


DOMED STRAINER BASKET (PAINTED)
COMPRESSION CLAMP RING (PAINTED)
COMPATIBLE SEALANT WITH ROOF MEMBRANE
ROOF FLASHING MEMBRANE
ROOF COVER BOARD
RIGID INSULATION
STATIC EXTENSION COLLAR
DRAIN DECK PLATE
METAL DECK
REFER TO STRUCTURAL DRAWINGS FOR DECK REINFORCING AS REQUIRED
1' - 4"
MIN
SLOPE INSULATION PER ROOF MANUFACTURERS REQUIREMENTS
ROOF DRAIN BODY
RAINWATER LEADER - REFER TO PLUMBING DRAWINGS

4 PRIMARY ROOF DRAIN SECTION
SCALE: 1 1/2" = 1'-0"


2" COMPRESSION RING DAM (PAINTED)
OVERFLOW DRAIN STRAINER BASKET (PAINTED)
1' - 4"
MIN
2' - 0"
MIN
PRIMARY DRAIN STRAINER BASKET AND COMPRESSION RING (PAINTED)
SLOPE INSULATION PER ROOF MANUFACTURERS REQUIREMENTS
4
A124
REFER TO STRUCTURAL DRAWINGS FOR DECK REINFORCING AS REQUIRED
METAL DECK
RAINWATER LEADERS - REFER TO PLUMBING DRAWINGS

3 ROOF DRAIN SECTION
SCALE: 1" = 1'-0"



NOTE: METAL DECK AND CONCRETE BLOCKOUT REQUIRED AROUND DRAIN OPENING (REFER TO STRUCTURAL DRAWINGS)

2 TYPICAL ROOF OVERFLOW DRAIN
SCALE: 1" = 1'-0"

DIMENSION PLAN NOTES

1. UNLESS OTHERWISE NOTED, DIMENSIONING ON PLANS IS AS FOLLOWS:
   - -TO FACE OF MASONRY
   - -TO FACE OF CONCRETE
   - -TO FACE OF STUD IN FRAMED PARTITIONS
   - -GRIDLINES: TO CENTER LINE OF COLUMNS
2. DOOR OPENINGS NOT LOCATED BY DIMENSIONS ARE EITHER CENTERED IN THE WALL OR ARE LOCATED 5" FROM FINISH WALL TO INSIDE FACE OF JAMB.
3. TYPICAL PARTITION TYPE IS 'A3' UNLESS NOTED OTHERWISE.
4. TYPICAL PARTITION TYPE AROUND PERIMETER OF EXTERIOR WALLS IS 'B3' UNLESS NOTED OTHERWISE.
5. TYPICAL PARTITION TYPE AT COLUMN FURR OUTS IS '__' UNLESS NOTED OTHERWISE.
6. SEE ENLARGED PLAN DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION. ANY DISCREPANCIES MUST BE COORDINATED WITH THE ARCHITECT BEFORE PROCEEDING.
7. DIMENSIONS WITH THE NOTE 'CLEAR' INDICATES DIMENSION IS FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO CIVIL PLANS TO VERIFY FOOTPRINT LOCATION.
9. ALL ROOFING MATERIAL WILL BE SUBMITTED BY THE ROOFING SUB-CONTRACTOR AS A DEFFERED SUBMITTAL SHOWING A MIN. R-25 THICKNESS OF TAPERED INSULATION.

PARTITION FIRE RATING LEGEND

S — S — S	SMOKE PARTITION
♦ – ♦ – ♦ – ♦ – ♦	1-HR FIRE BARRIER
♦S — ♦S — ♦S	1-HR FIRE/SMOKE BARRIER
♦♦ — ♦♦ — ♦♦	2-HR FIRE BARRIER
♦♦S — ♦♦S — ♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEYED NOTES

#

Note Number	Note

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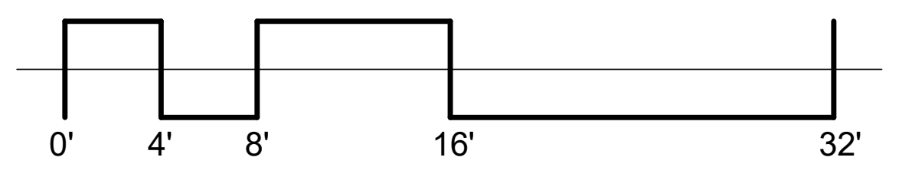
A-7733
2-15-19

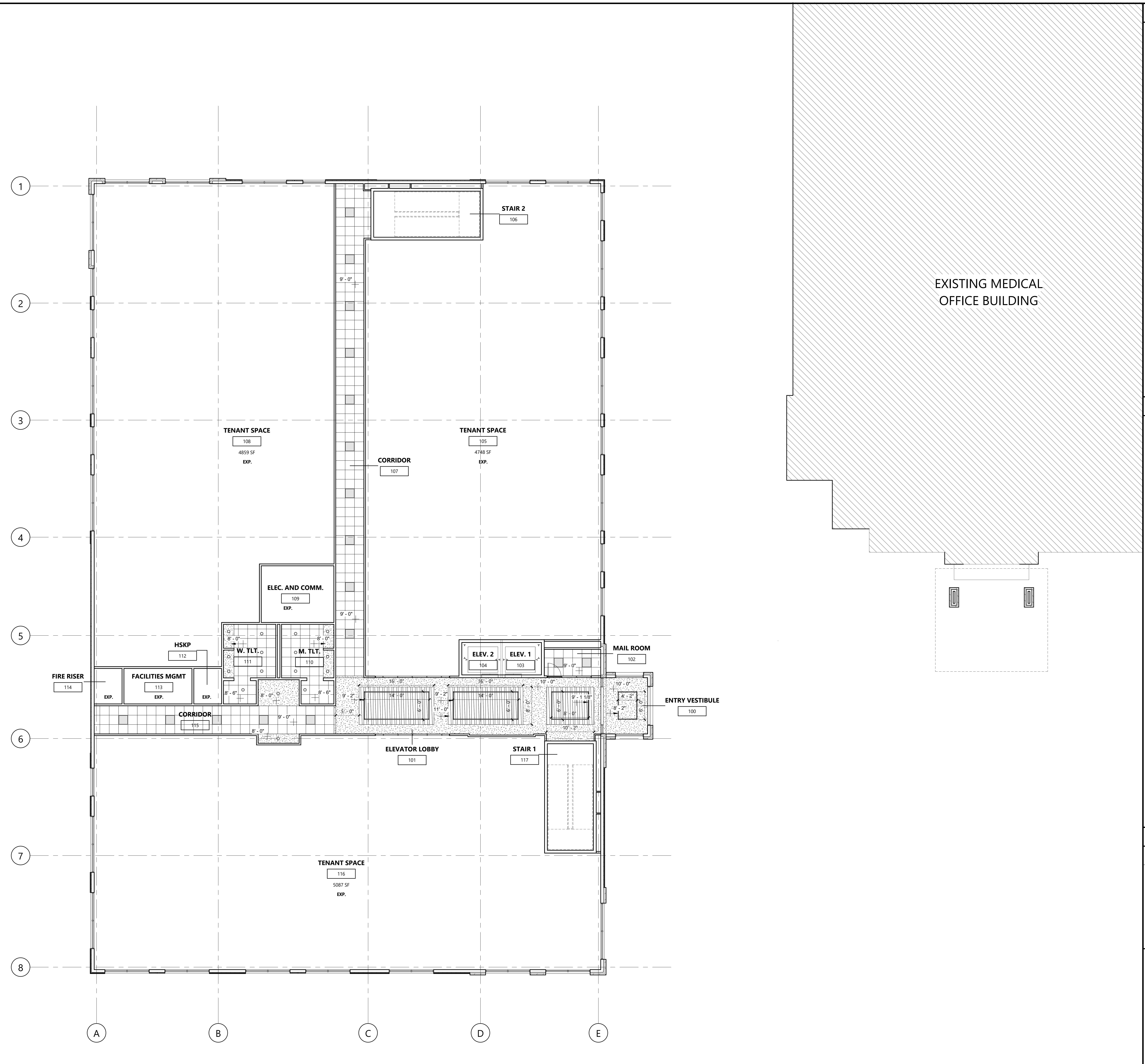
WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
ROOF PLAN - DIMENSION



SHEET
A124



1 LEVEL 1 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES DISCOVERED DURING CONSTRUCTION.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF EMERGENCY LIGHTING.
3. CENTER CEILING AND LIGHTS IN ALL SPACES WHERE POSSIBLE, U.N.O.
4. THIS SHEET IS FOR LAYOUT ONLY. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT FIXTURE QUANTITY. ALL SWITCHES, OUTLETS, LIGHTS, DIFFUSERS, ETC. MUST BE LOCATED PER ARCHITECTURAL DRAWINGS WHERE APPLICABLE.
5. PROVIDE ACCESS PANELS IN GYPSUM CEILINGS WHERE REQUIRED TO ACCESS ABOVE CEILING EQUIPMENT. (SEE SPECS)
6. ALL CEILINGS IN COMMON CORRIDORS SHALL BE 9'-0" AFF U.N.O.
7. CEILINGS IN ELEVATOR LOBBIES SHALL BE 11'0' AFF U.N.O.
8. BOTTOM OF GYP. BD. BULKHEADS IN TOILET ROOMS SHALL BE 8'-0" AFF U.N.O.
9. ALL PARTITION WALLS SHALL EXTEND TO UNDERSIDE OF DECK ABOVE U.N.O.
10. CEILINGS TO BE LEFT EXPOSED WILL BE NOTED AS EXP. ON ALL RCP DRAWINGS.

REFLECTED CEILING PLAN LEGEND

▭	ARMSTRONG CONCEALED WOOD CEILING PANEL
▦	24" X 24" ACOUSTICAL CEILING PANEL AND GRID
▨	GYPSUM BOARD CEILING OR SOFFIT
▭	2' x 4' FLUORESCENT FIXTURE
□	2' x 2' FLUORESCENT FIXTURE
▭	1' x 4' FLUORESCENT FIXTURE
○	RECESSED CAN DOWNLIGHT
▭	HYDROGEN LED LIGHT FIXTURE
—	SLIVER LED LIGHT FIXTURE
+ X'-X"	CEILING ELEVATTION A.F.F.
☒	MECHANICAL SUPPLY DIFFUSER
◪	MECHANICAL RETURN GRILLE
◩	MECHANICAL EXHAUST GRILLE

KEYED NOTES

Note Number	Note

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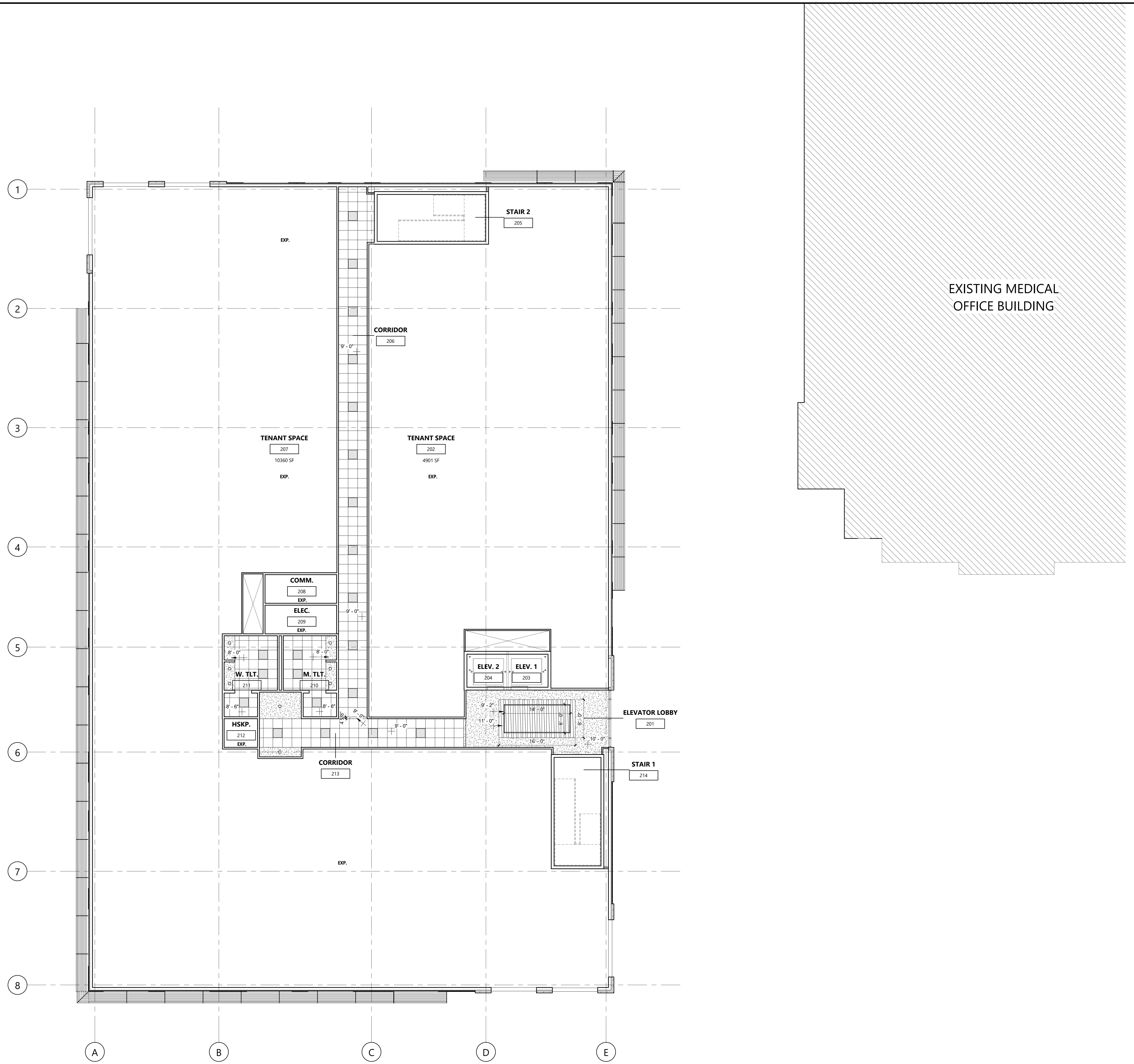
WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
FIRST FLOOR - REFLECTED CEILING PLAN

0' 4' 8' 16' 32'

SHEET
A151



1 LEVEL 2 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES DISCOVERED DURING CONSTRUCTION.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF EMERGENCY LIGHTING.
3. CENTER CEILING AND LIGHTS IN ALL SPACES WHERE POSSIBLE, U.N.O.
4. THIS SHEET IS FOR LAYOUT ONLY. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT FIXTURE QUANTITY. ALL SWITCHES, OUTLETS, LIGHTS, DIFFUSERS, ETC. MUST BE LOCATED PER ARCHITECTURAL DRAWINGS WHERE APPLICABLE.
5. PROVIDE ACCESS PANELS IN GYPSUM CEILINGS WHERE REQUIRED TO ACCESS ABOVE CEILING EQUIPMENT. (SEE SPECS)
6. ALL CEILINGS IN COMMON CORRIDORS SHALL BE 9'-0" AFF U.N.O.
7. CEILINGS IN ELEVATOR LOBBIES SHALL BE 11'0" AFF U.N.O.
8. BOTTOM OF GYP. BD. BULKHEADS IN TOILET ROOMS SHALL BE 8'-0" AFF U.N.O.
9. ALL PARTITION WALLS SHALL EXTEND TO UNDERSIDE OF DECK ABOVE U.N.O.
10. CEILINGS TO BE LEFT EXPOSED WILL BE NOTED AS EXP. ON ALL RCP DRAWINGS.

REFLECTED CEILING PLAN LEGEND

▭	ARMSTRONG CONCEALED WOOD CEILING PANEL
▦	24" X 24" ACOUSTICAL CEILING PANEL AND GRID
▒	GYPSUM BOARD CEILING OR SOFFIT
▭	2' x 4' FLUORESCENT FIXTURE
▢	2' x 2' FLUORESCENT FIXTURE
▭	1' x 4' FLUORESCENT FIXTURE
○	RECESSED CAN DOWNLIGHT
━	HYDROGEN LED LIGHT FIXTURE
─	SLIVER LED LIGHT FIXTURE
+ X'-X"	CEILING ELEVATTION A.F.F.
☒	MECHANICAL SUPPLY DIFFUSER
⧄	MECHANICAL RETURN GRILLE
⧅	MECHANICAL EXHAUST GRILLE

KEYED NOTES

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ARCHITECTS

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III
02/15/19

DATES OF ISSUANCE

TITLE
SECOND FLOOR - REFLECTED CEILING PLAN

SHEET
A152

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 5:58:45 PM

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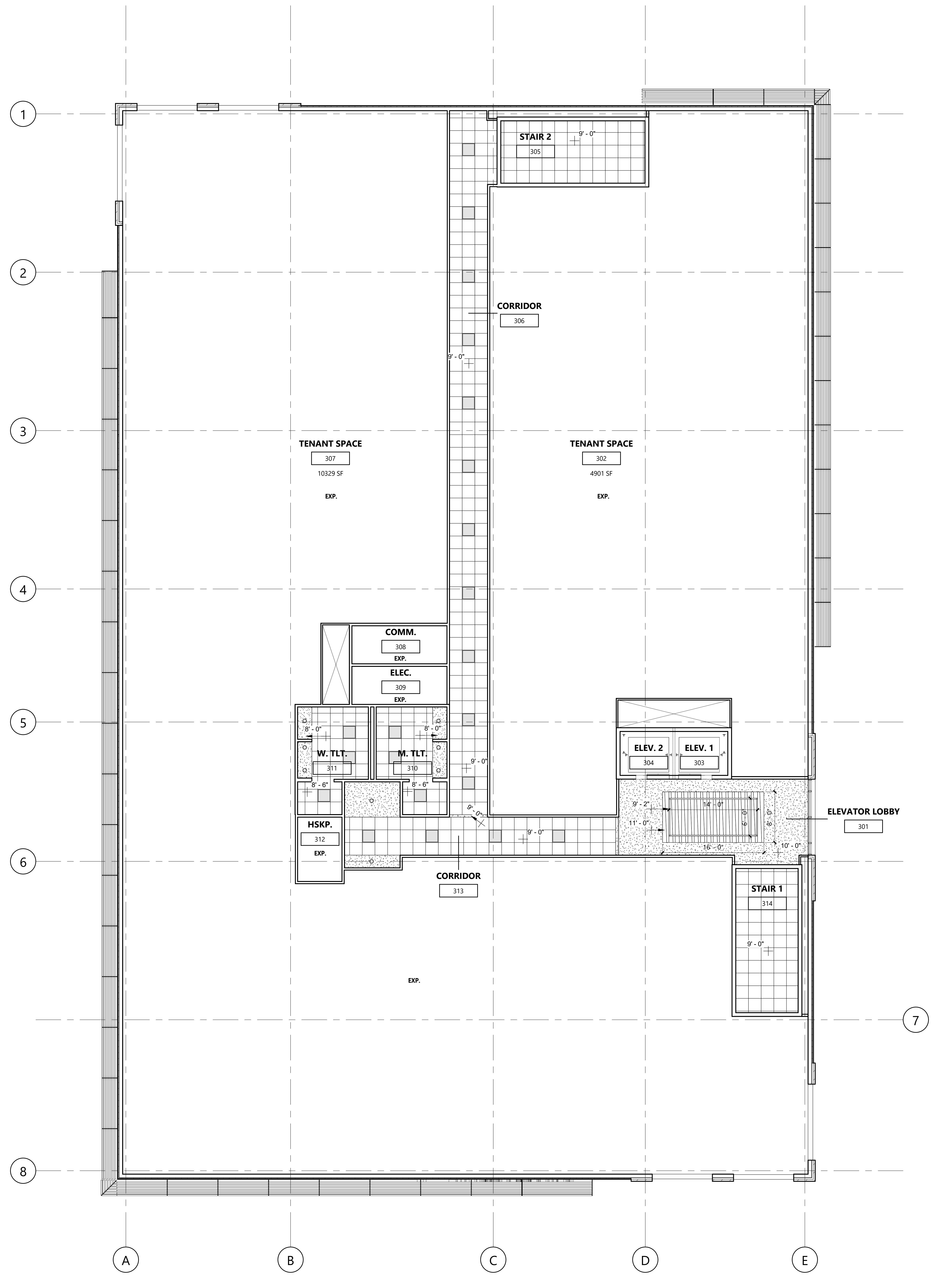

1 LEVEL 3 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES DISCOVERED DURING CONSTRUCTION.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF EMERGENCY LIGHTING.
3. CENTER CEILING AND LIGHTS IN ALL SPACES WHERE POSSIBLE, U.N.O.
4. THIS SHEET IS FOR LAYOUT ONLY. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT FIXTURE QUANTITY. ALL SWITCHES, OUTLETS, LIGHTS, DIFFUSERS, ETC. MUST BE LOCATED PER ARCHITECTURAL DRAWINGS WHERE APPLICABLE.
5. PROVIDE ACCESS PANELS IN GYPSUM CEILINGS WHERE REQUIRED TO ACCESS ABOVE CEILING EQUIPMENT. (SEE SPECS)
6. ALL CEILINGS IN COMMON CORRIDORS SHALL BE 9'-0" AFF U.N.O.
7. CEILINGS IN ELEVATOR LOBBIES SHALL BE 11'0' AFF U.N.O.
8. BOTTOM OF GYP. BD. BULKHEADS IN TOILET ROOMS SHALL BE 8'-0" AFF U.N.O.
9. ALL PARTITION WALLS SHALL EXTEND TO UNDERSIDE OF DECK ABOVE U.N.O.
10. CEILINGS TO BE LEFT EXPOSED WILL BE NOTED AS EXP. ON ALL RCP DRAWINGS.

REFLECTED CEILING PLAN LEGEND

▭	ARMSTRONG CONCEALED WOOD CEILING PANEL
▦	24" X 24" ACOUSTICAL CEILING PANEL AND GRID
▨	GYPSUM BOARD CEILING OR SOFFIT
▭	2' x 4' FLUORESCENT FIXTURE
▢	2' x 2' FLUORESCENT FIXTURE
▬	1' x 4' FLUORESCENT FIXTURE
○	RECESSED CAN DOWNLIGHT
━	HYDROGEN LED LIGHT FIXTURE
—	SLIVER LED LIGHT FIXTURE
+ X'-X"	CEILING ELEVATTION A.F.F.
⊠	MECHANICAL SUPPLY DIFFUSER
⧄	MECHANICAL RETURN GRILLE
⧅	MECHANICAL EXHAUST GRILLE

KEYED NOTES

#

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217026.05
CLIENT PROJECT NUMBER: N/A

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

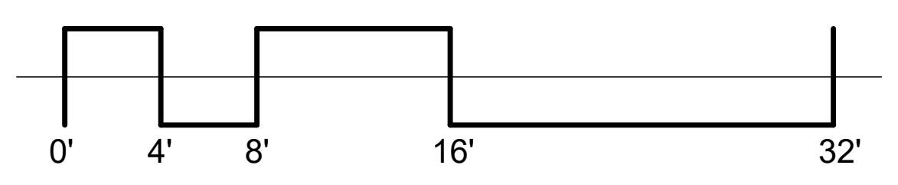
STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19
△
△
△

TITLE
THIRD FLOOR - REFLECTED CEILING PLAN



SHEET
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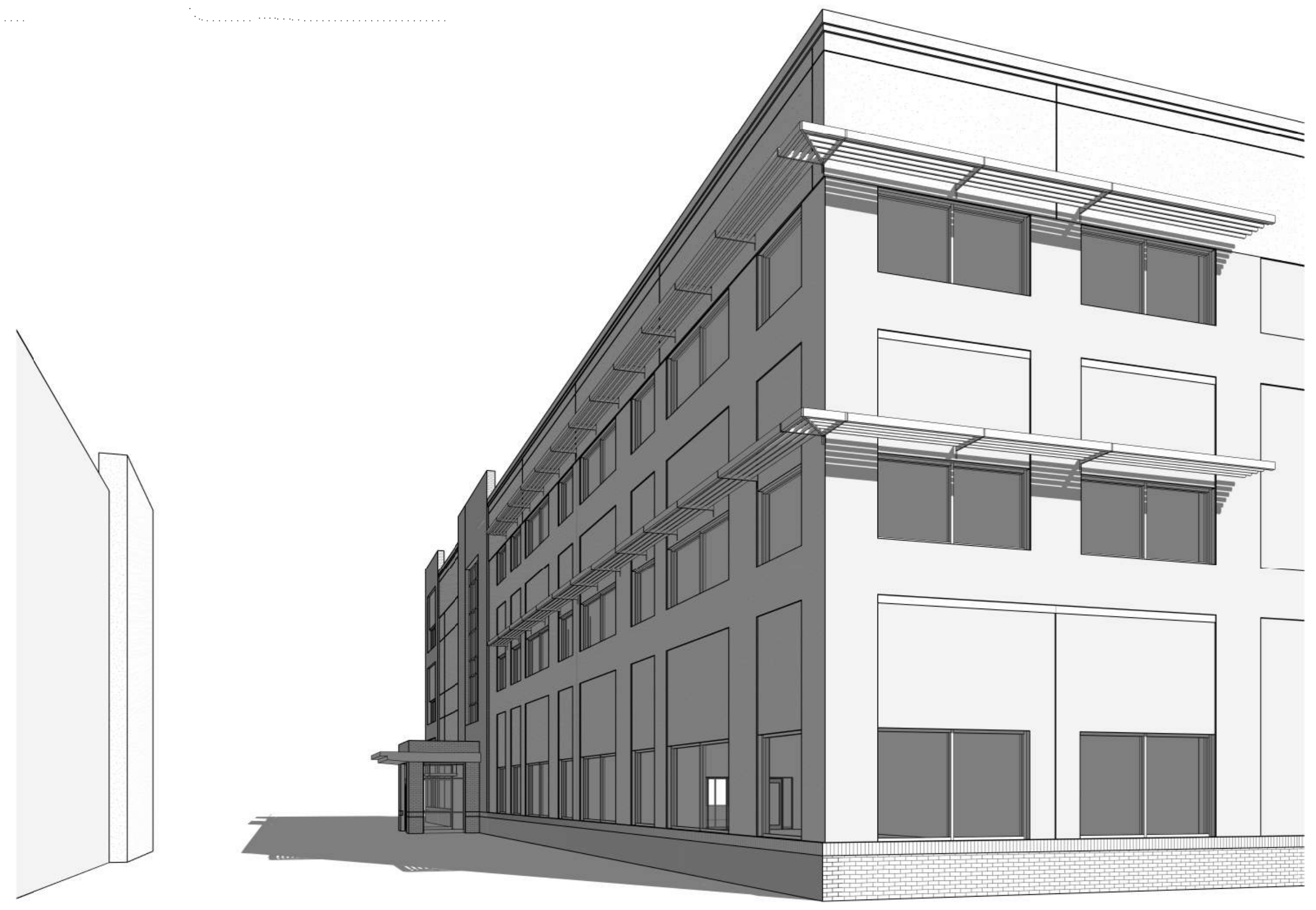
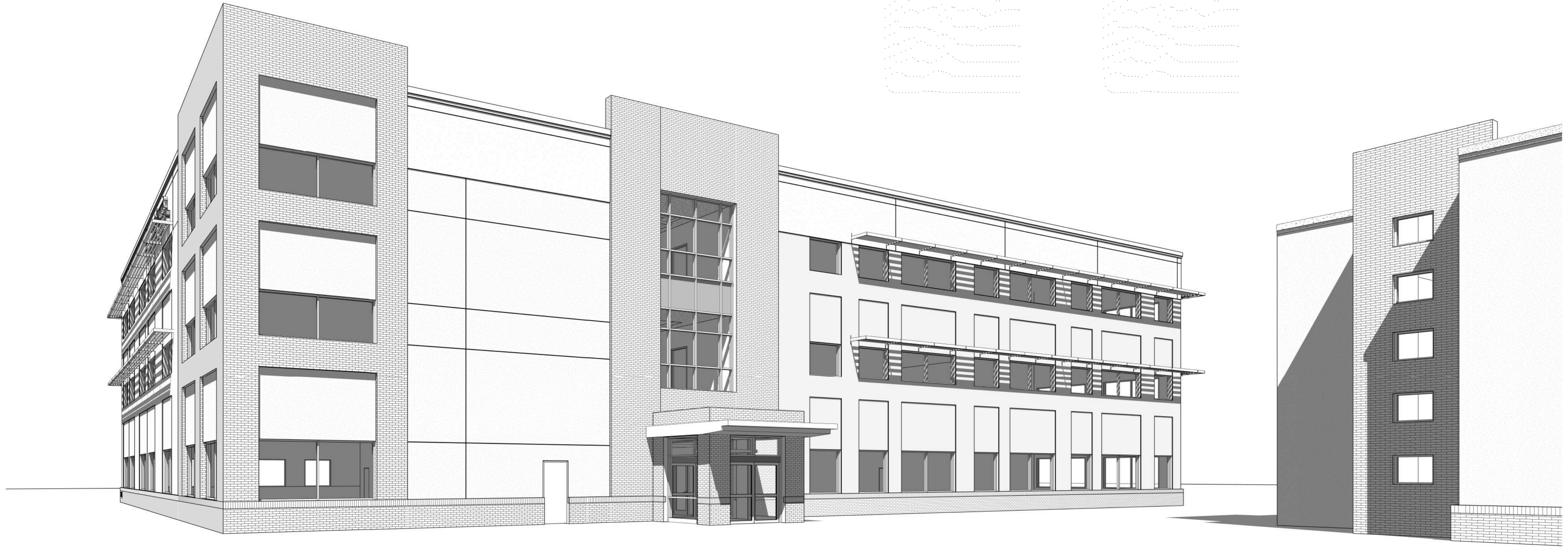


1 NORTHERN CONNECTOR VIEW
SCALE:



2 FRONT CANOPY VIEW
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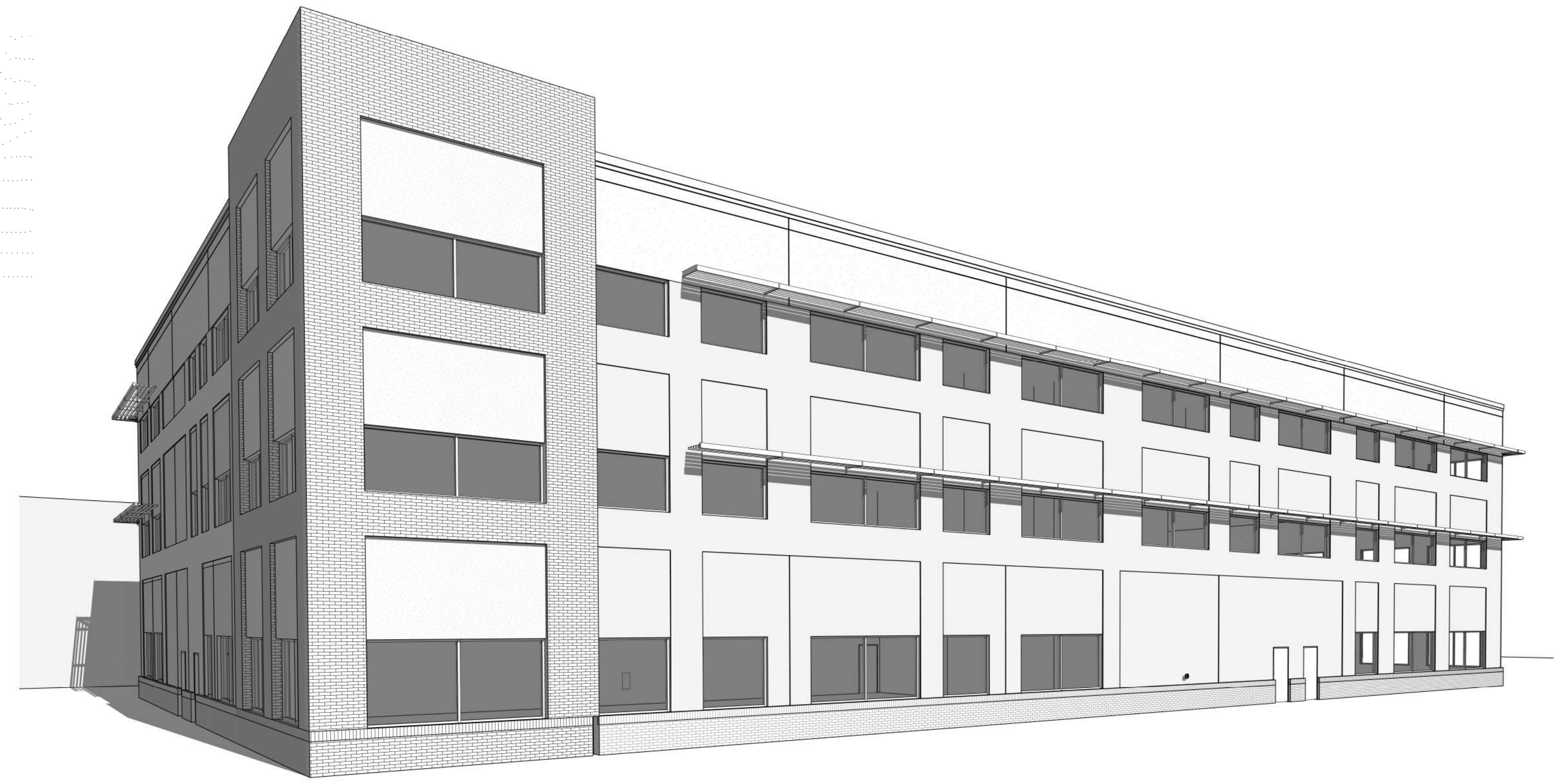
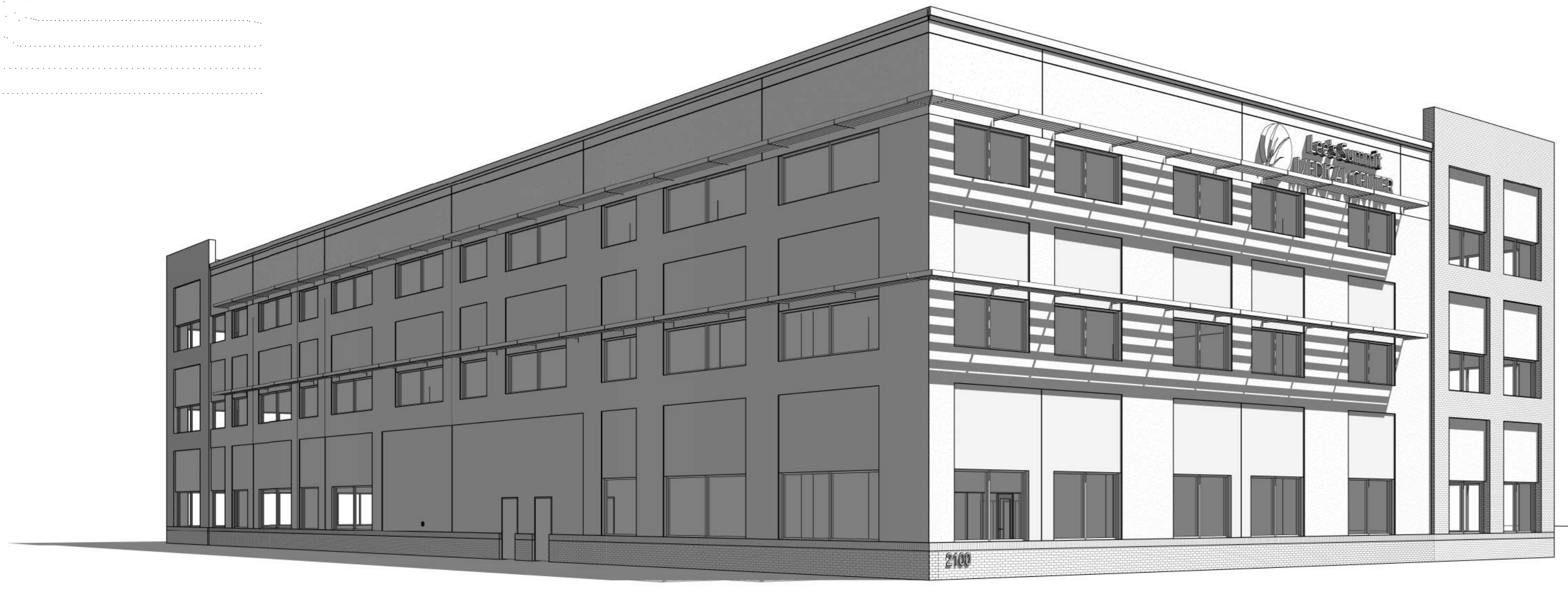


3 NORTHWEST CORNER VIEW
SCALE:



4 SOUTHWEST CORNER VIEW
SCALE:

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PROJECT #
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CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

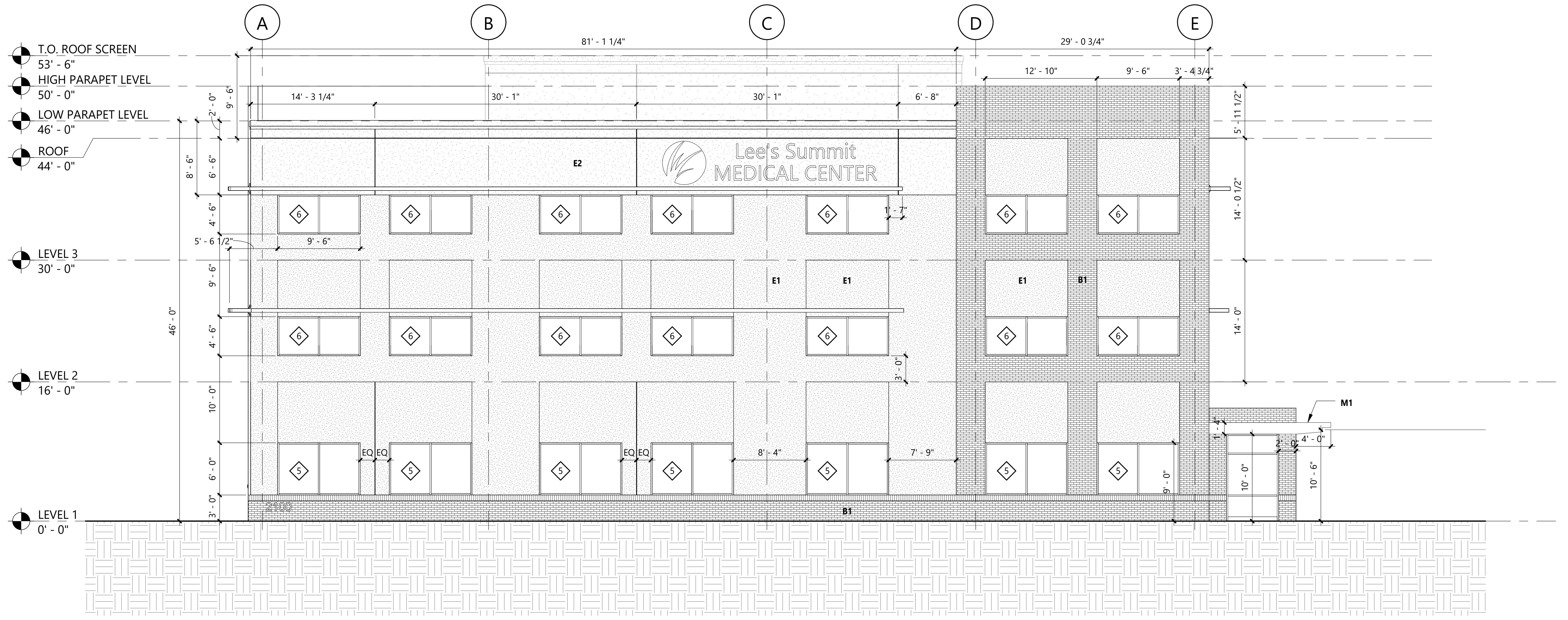
THOMAS ALAN DOOLEY
A-7733
15-19

WILLIAM E. HEREFORD III

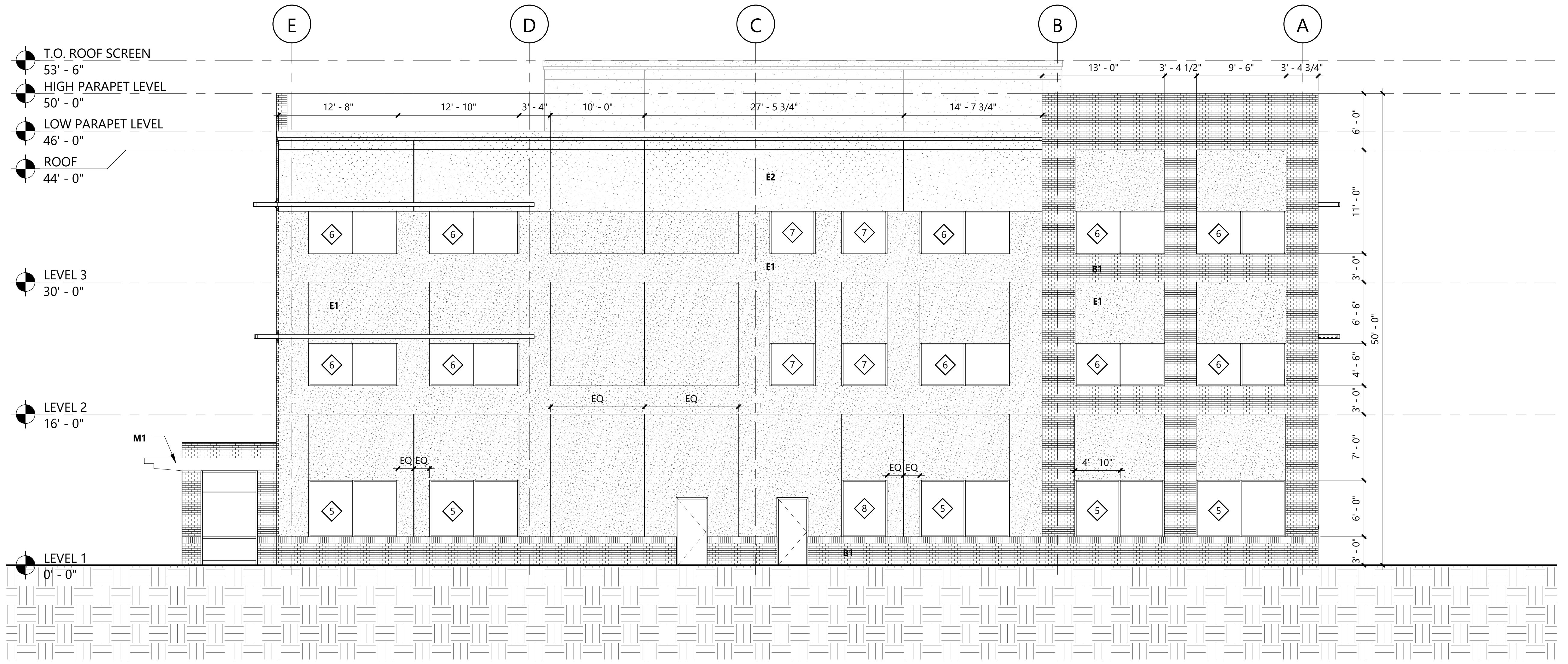
DATES OF ISSUANCE
02/15/19
△
△
△

TITLE
3D VIEWS

SHEET
A170



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



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

EXTERIOR MATERIALS SCHEDULE

PATTERN AND MARKER	MANUFACTURER	PRODUCT AND COLOR FINISH
E1	REFER TO SPECIFICATIONS	**EIFS : FIELD COLOR (MATCH EXISITNG MOB'S DARKER EIFS COLOR)**
E2	REFER TO SPECIFICATIONS	**EIFS : ACCENT COLOR (MATCH EXISITNG MOB'S LIGHTER EIFS COLOR)**
B1	REFER TO SPECIFICATIONS	**BRICK (MATCH EXISITNG MOB'S BRICK COLOR)**
M1	REFER TO SPECIFICATIONS	**METAL WALL PANEL REYNOBOND / ANODIC CLEAR**
◇ #	REFER TO SPECIFICATIONS	**GLAZING VISION GLASS : SOLARBAN 60 SOLARBRONZE +SOLARBAN 60 (3) CLEAR**
◆ #	REFER TO SPECIFICATIONS	**GLAZING SPANDREL GLASS : SOLARBAN 60 SOLARBRONZE + SOLARBAN 60 SPANDREL**
◇ #	REFER TO SPECIFICATIONS	**ALUMINUM WINDOW FRAMES : CLEAR ANODIZED**

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

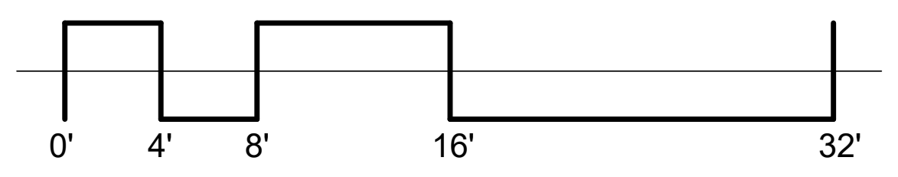
STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
EXTERIOR ELEVATIONS



SHEET
A200

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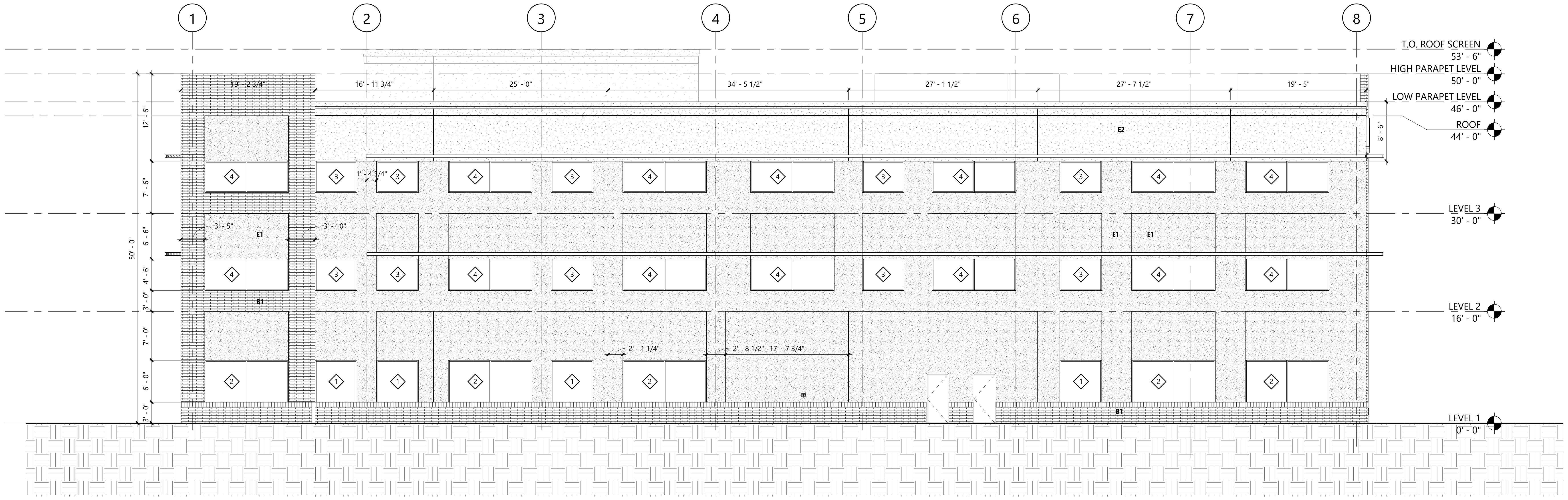
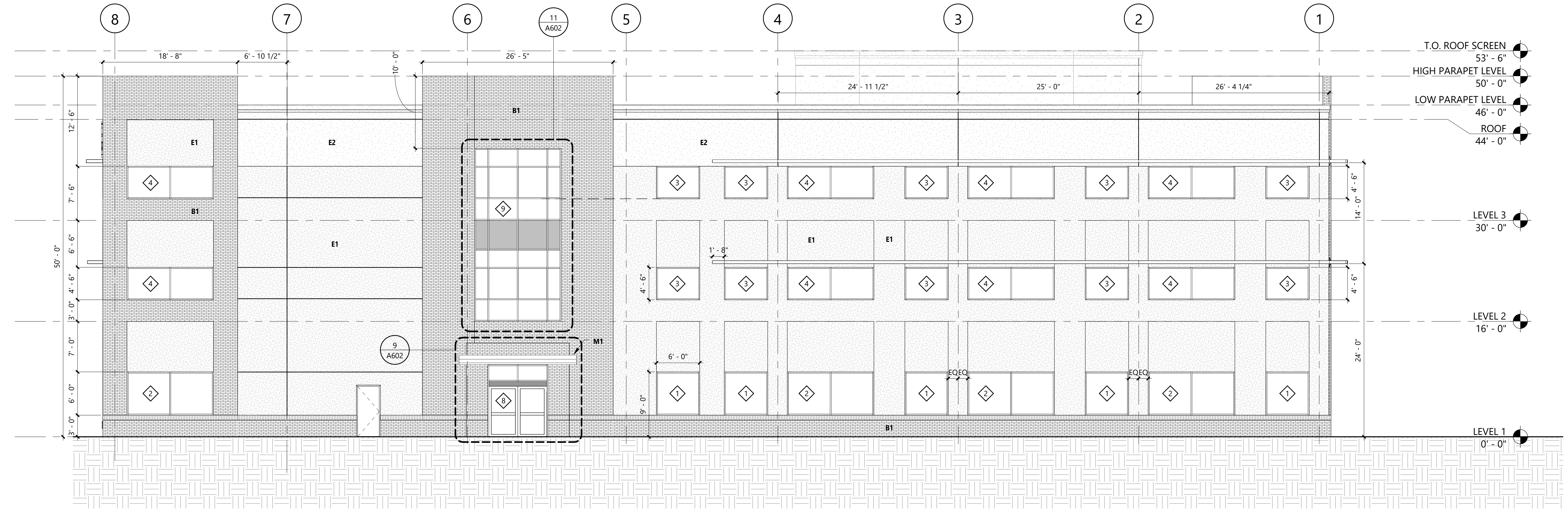


2 WEST
SCALE: 1/8" = 1'-0"



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

EXTERIOR MATERIALS SCHEDULE

PATTERN AND MARKER	MANUFACTURER	PRODUCT AND COLOR FINISH
E1	REFER TO SPECIFICATIONS	**EIFS : FIELD COLOR (MATCH EXISITNG MOB'S DARKER EIFS COLOR)**
E2	REFER TO SPECIFICATIONS	**EIFS : ACCENT COLOR (MATCH EXISITNG MOB'S LIGHTER EIFS COLOR)**
B1	REFER TO SPECIFICATIONS	**BRICK (MATCH EXISITNG MOB'S BRICK COLOR)**
M1	REFER TO SPECIFICATIONS	**METAL WALL PANEL REYNOBOND / ANODIC CLEAR**
◇ #	REFER TO SPECIFICATIONS	**GLAZING VISION GLASS : SOLARBAN 60 SOLARBRONZE +SOLARBAN 60 (3) CLEAR**
◆ #	REFER TO SPECIFICATIONS	**GLAZING SPANDREL GLASS : SOLARBAN 60 SOLARBRONZE + SOLARBAN 60 SPANDREL**
◇ #	REFER TO SPECIFICATIONS	**ALUMINUM WINDOW FRAMES : CLEAR ANODIZED**

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CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
THOMAS ALLEN DOOLEY
A-7733
REGISTERED ARCHITECT
15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE 02/15/19
△
△
△

TITLE EXTERIOR ELEVATIONS

SHEET A201

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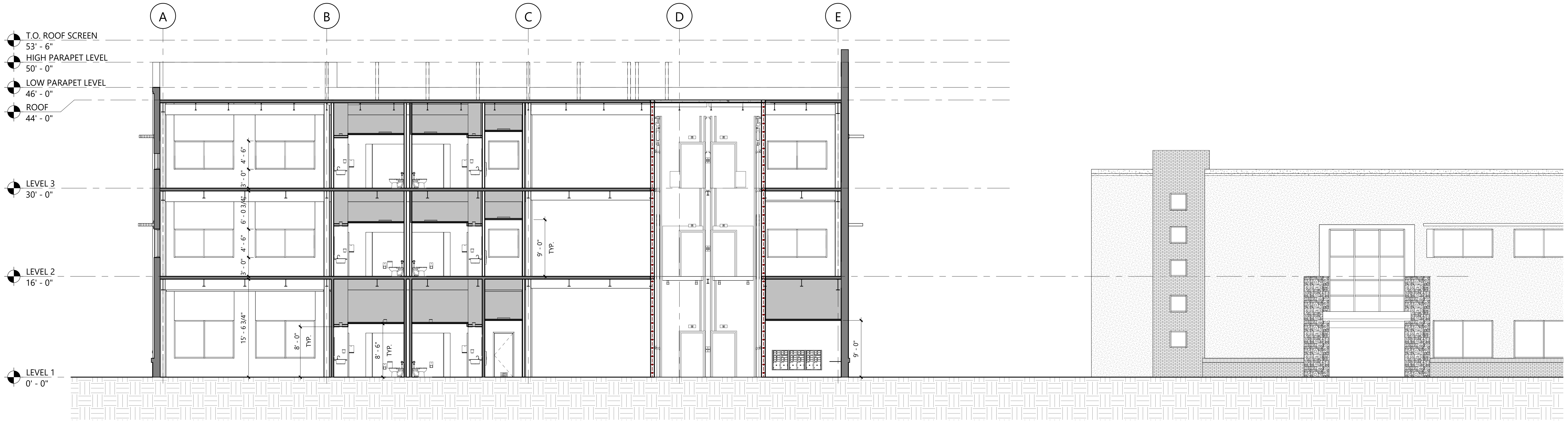
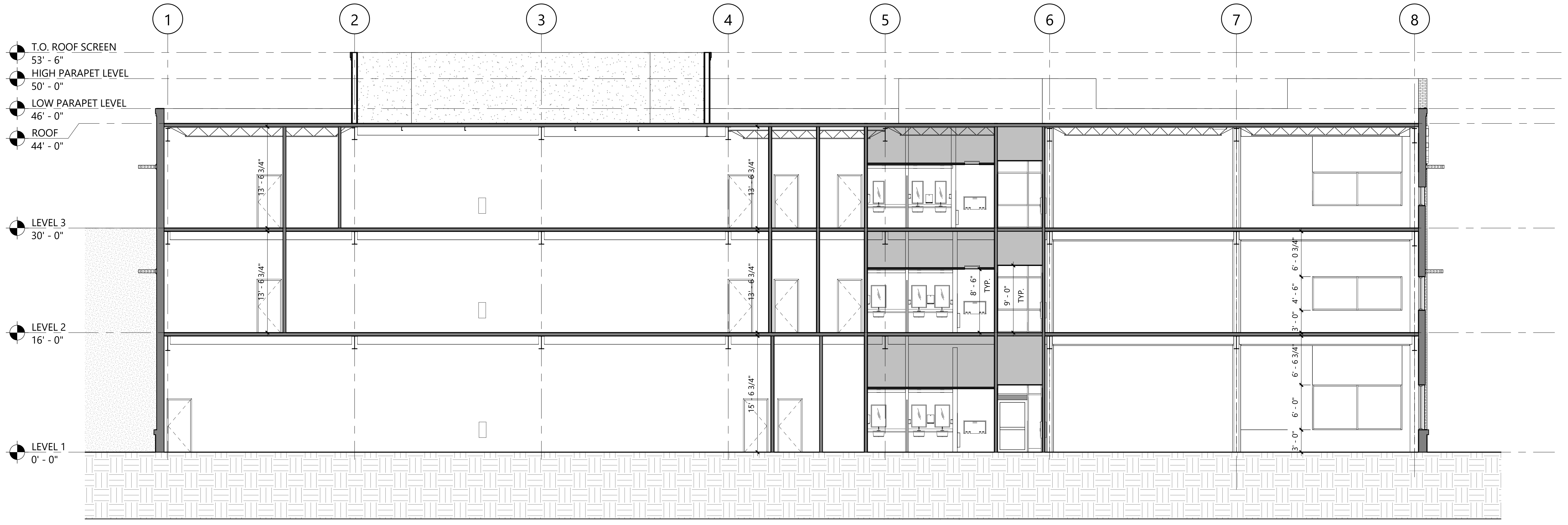


2 Section 2
SCALE: 1/8" = 1'-0"



1 Section 1
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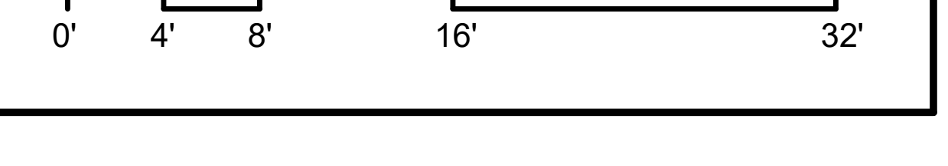

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

02/15/19

DATES OF ISSUANCE
△
△
△

TITLE
BUILDING SECTIONS

SHEET
A300

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2/18/2019 6:00:47 PM
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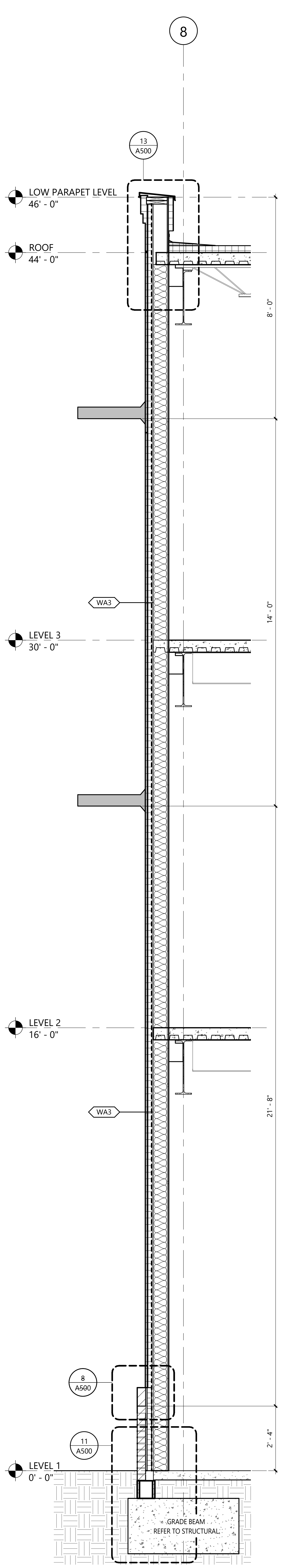
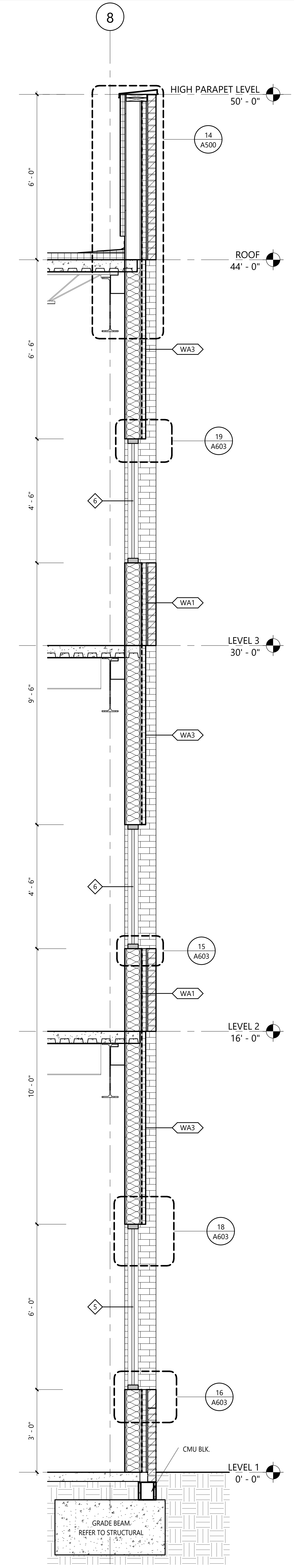


5 NORTH WALL SECTION - EIFS TYP. SECTION
SCALE: 1/2" = 1'-0"



4 NORTH WALL SECTION - EIFS WALL TYP. WINDOWS
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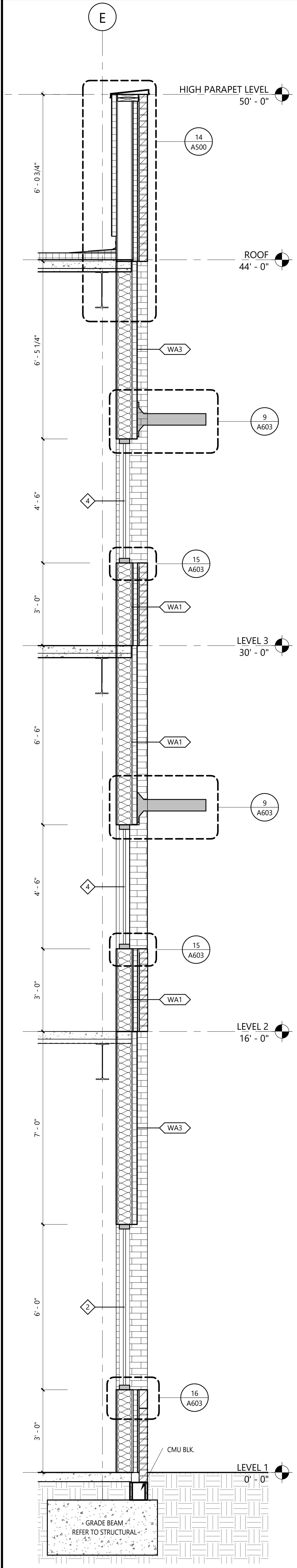
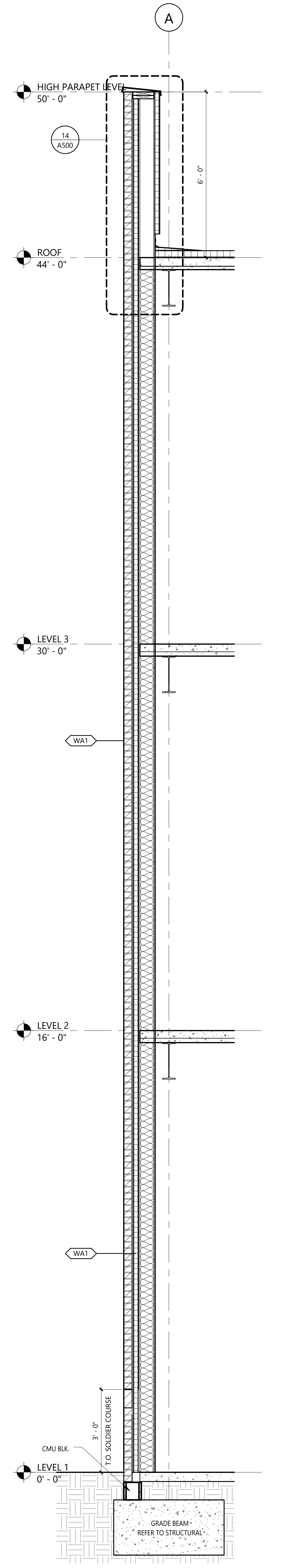
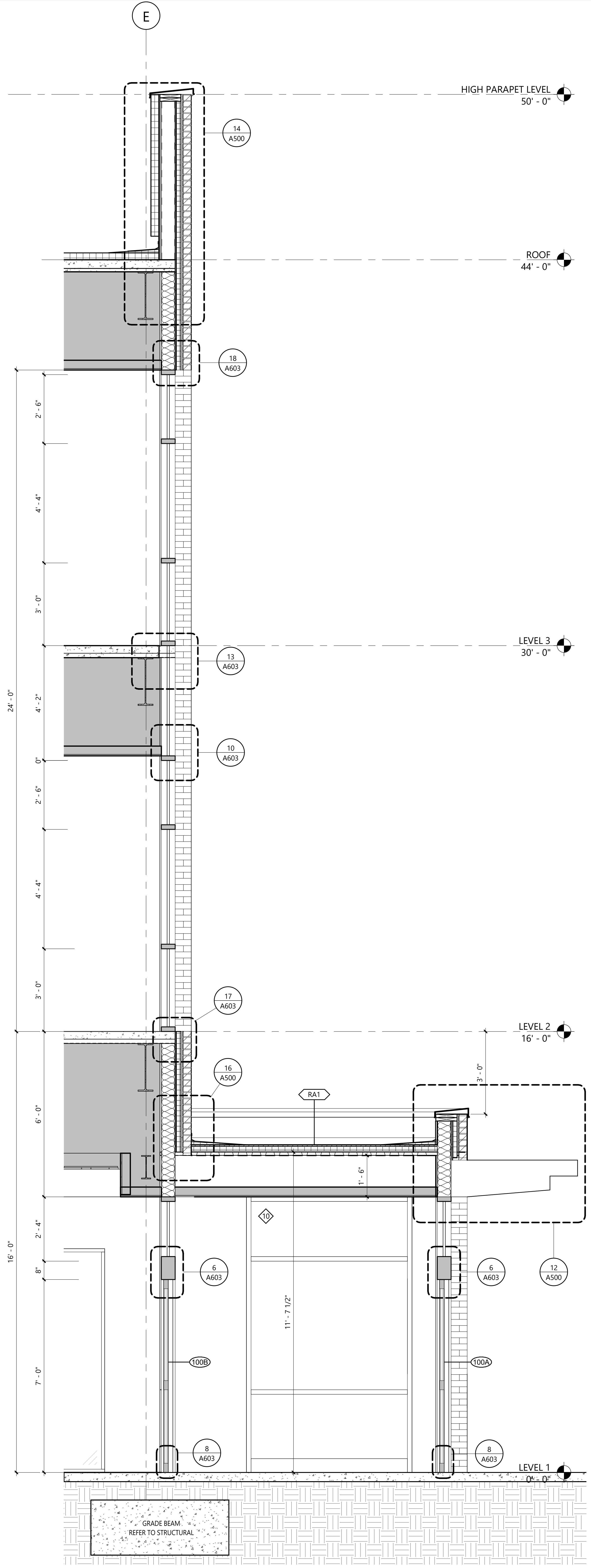


3 EAST WALL SECTION - BRICK AND EIFS WALL WINDOWS
SCALE: 1/2" = 1'-0"

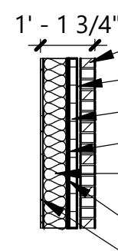
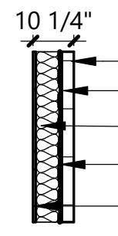
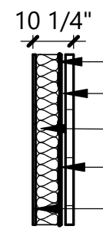


2 WEST WALL SECTION - BRICK
SCALE: 1/2" = 1'-0"



1 EAST WALL SECTION - FRONT ENTRANCE CURTAIN WALL
SCALE: 1/2" = 1'-0"

EXTERIOR WALL LEGEND

ANNOTATION	INFORMATION	REMARKS
WA1	 **NON-RATED BRICK** 1' - 1 3/4" MANUFACTURED BRICK - FIELD COLOR AIR SPACE R13 RIGID INSULATION WEATHER BARRIER LIQUID R13 BATT INSULATION 1/2" GYPSUM SHEATHING 5/8" GYPSUM BOARD	BATT INSULATION IS NOT REQUIRED IN THE PARAPET WALL ABOVE THE ROOF MEMBRANE
WA2	 **NON-RATED 3" EIFS** 10 1/4" 3" EIFS WEATHER BARRIER LIQUID R13 BATT INSULATION 1/2" GYPSUM SHEATHING 5/8" GYPSUM BOARD	BATT INSULATION IS NOT REQUIRED IN THE PARAPET WALL ABOVE THE ROOF MEMBRANE
WA3	 **NON-RATED 2" EIFS** 10 1/4" 2" EIFS WEATHER BARRIER LIQUID R13 BATT INSULATION 1/2" EXTERIOR SHEATHING 5/8" GYPSUM BOARD	BATT INSULATION IS NOT REQUIRED IN THE PARAPET WALL ABOVE THE ROOF MEMBRANE

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PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

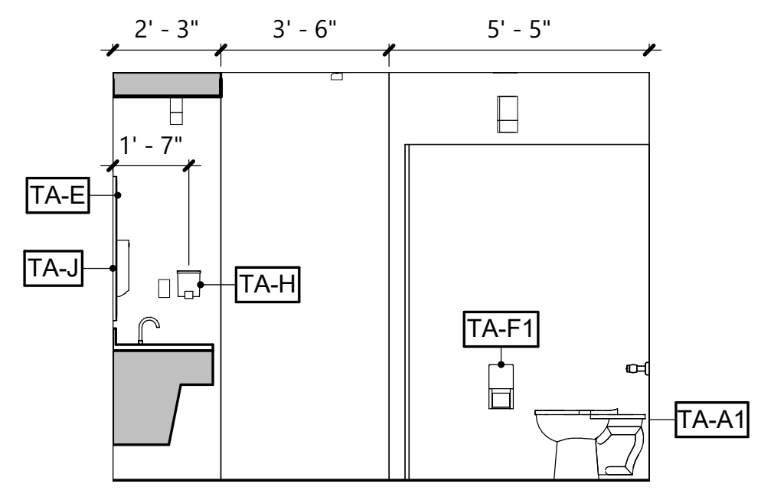
THOMAS ALLAN DOOLEY
A-7733

WILLIAM E. HEREFORD III
02/15/19

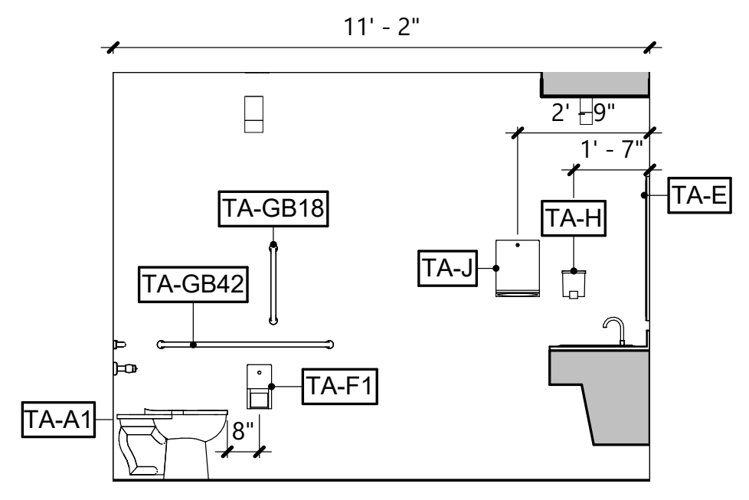
DATES OF ISSUANCE

TITLE WALL SECTIONS

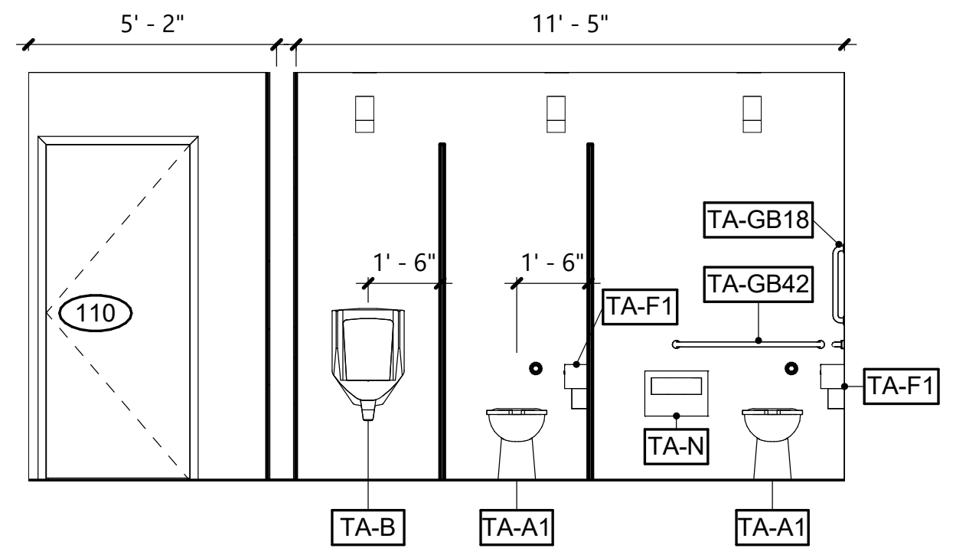
SHEET A310



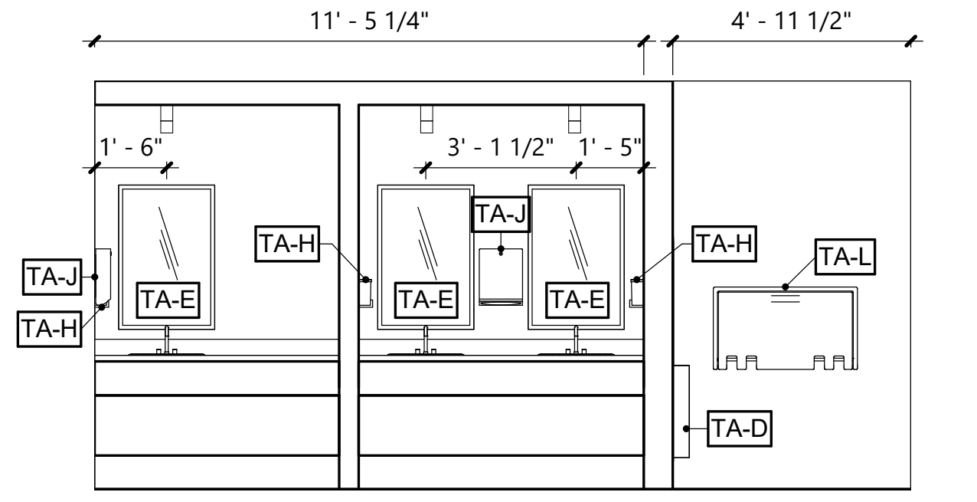
19 ENLARGED MALE RESTROOM 114 - ELEVATION D
SCALE: 1/4" = 1'-0"



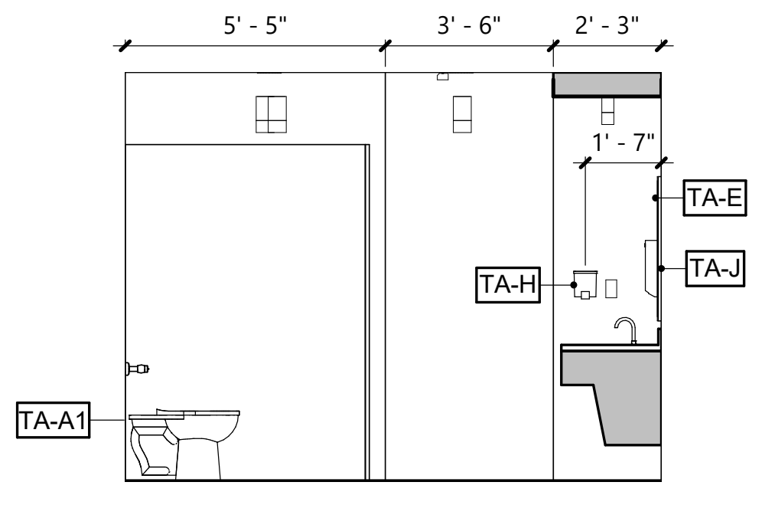
15 ENLARGED MALE RESTROOM 114 - ELEVATION C
SCALE: 1/4" = 1'-0"



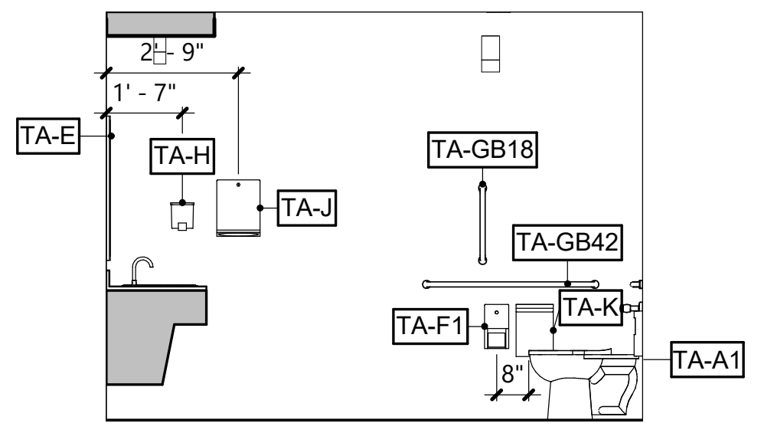
11 ENLARGED MALE RESTROOM 114 - ELEVATION B
SCALE: 1/4" = 1'-0"



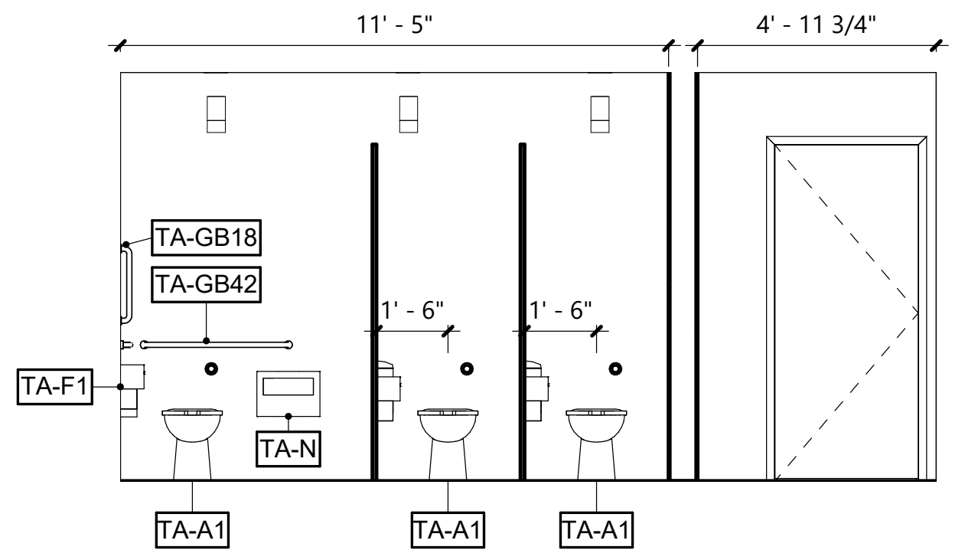
7 ENLARGED MALE RESTROOM 114 - ELEVATION A
SCALE: 1/4" = 1'-0"



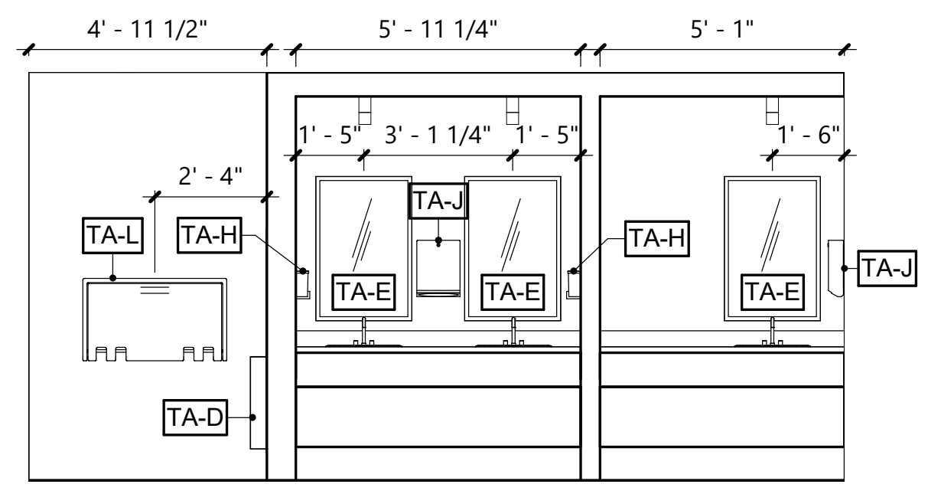
18 ENLARGED FEMALE RESTROOM 113 - ELEVATION D
SCALE: 1/4" = 1'-0"



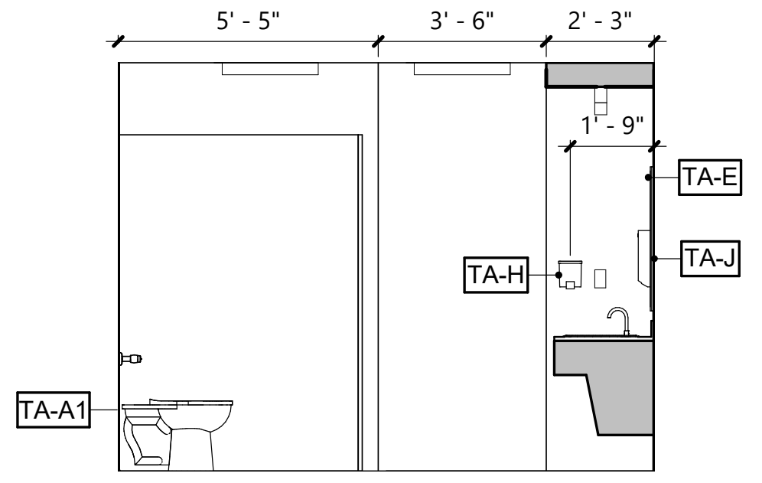
14 ENLARGED FEMALE RESTROOM 113 - ELEVATION C
SCALE: 1/4" = 1'-0"



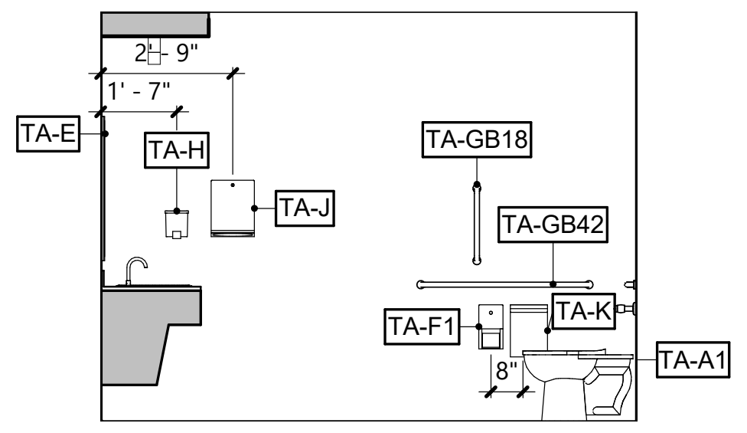
10 ENLARGED FEMALE RESTROOM 113 - ELEVATION B
SCALE: 1/4" = 1'-0"



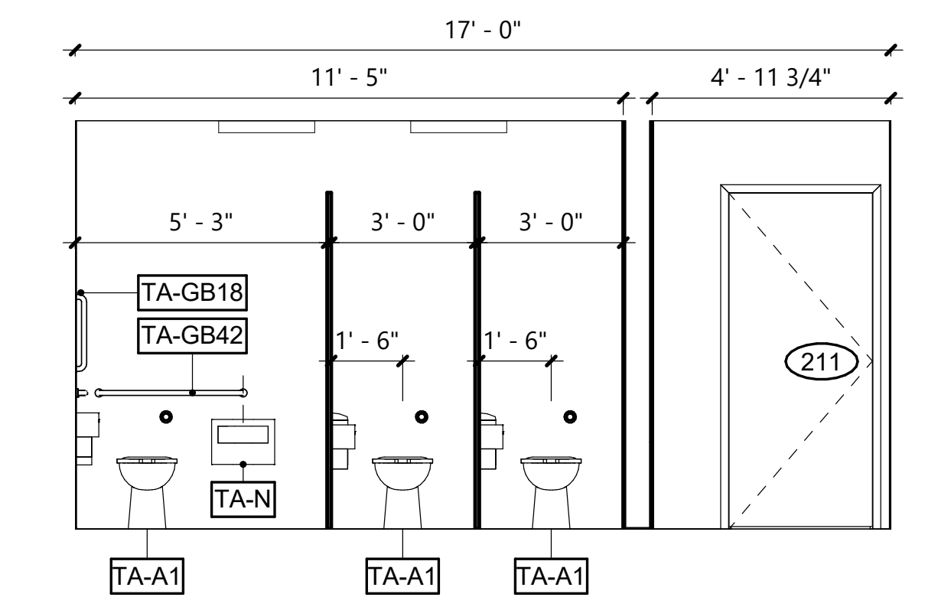
6 ENLARGED FEMALE RESTROOM 113 - ELEVATION A
SCALE: 1/4" = 1'-0"



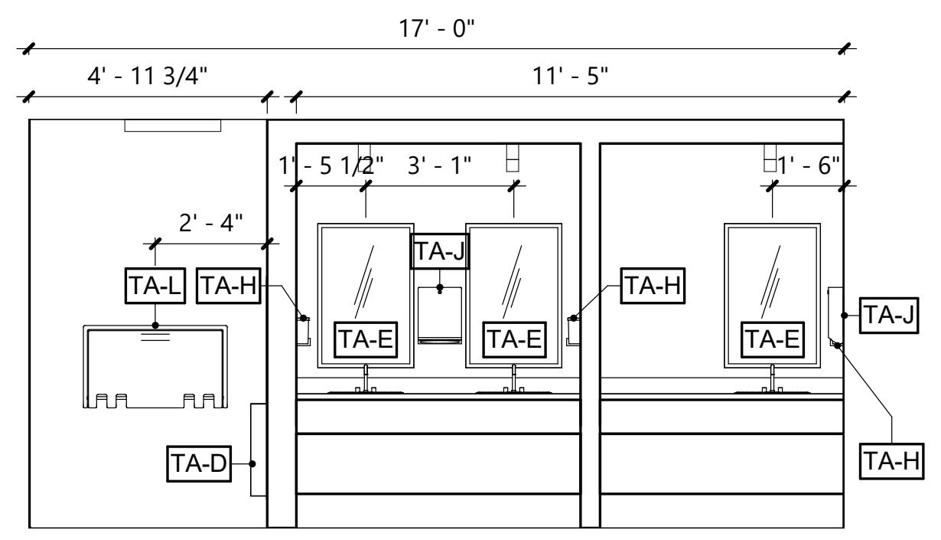
17 ENLARGED FEMALE RESTROOM - ELEVATION D
SCALE: 1/4" = 1'-0"



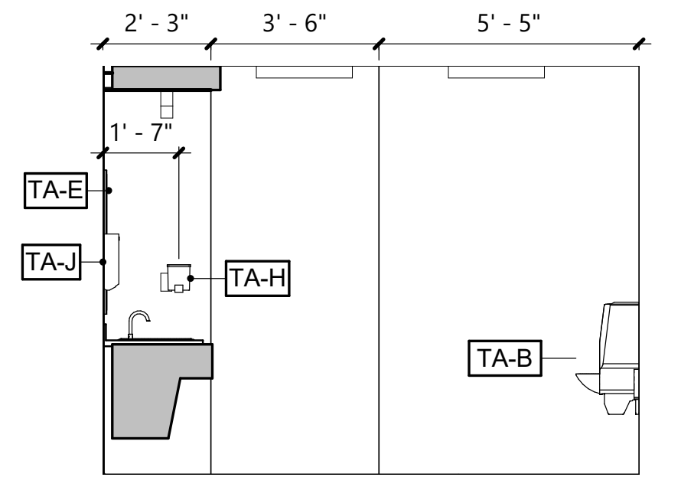
13 ENLARGED FEMALE RESTROOM - ELEVATION C
SCALE: 1/4" = 1'-0"



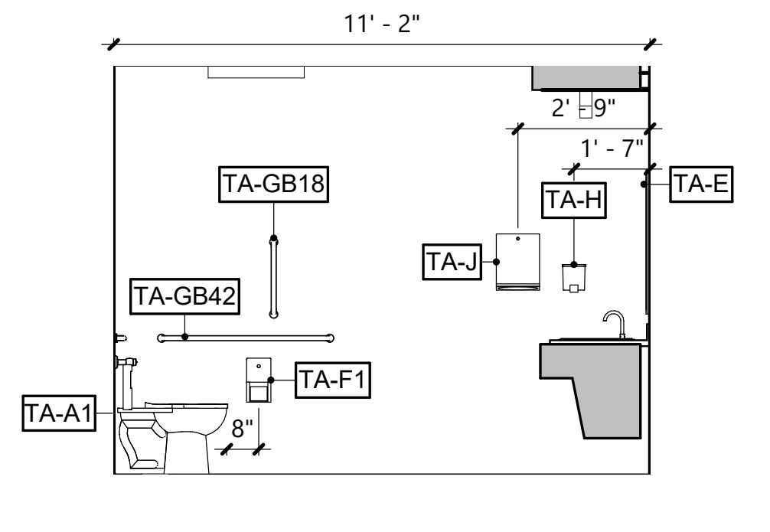
9 ENLARGED FEMALE RESTROOM - ELEVATION B
SCALE: 1/4" = 1'-0"



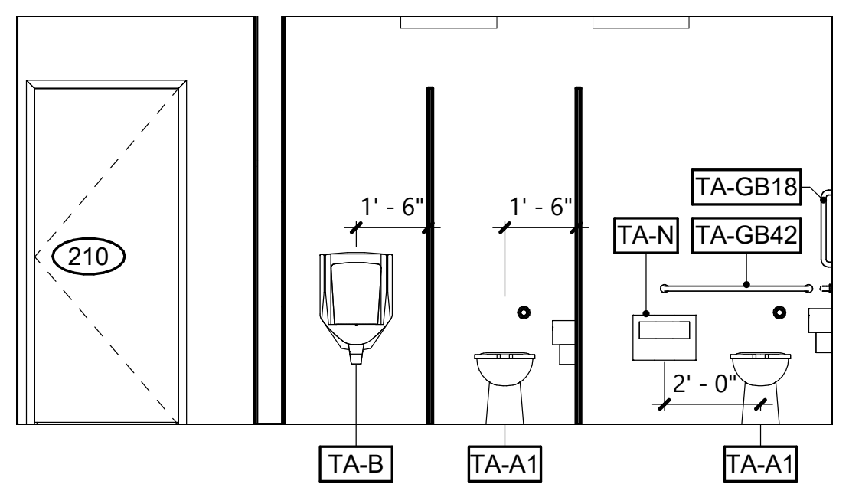
5 ENLARGED FEMALE RESTROOM - ELEVATION A
SCALE: 1/4" = 1'-0"



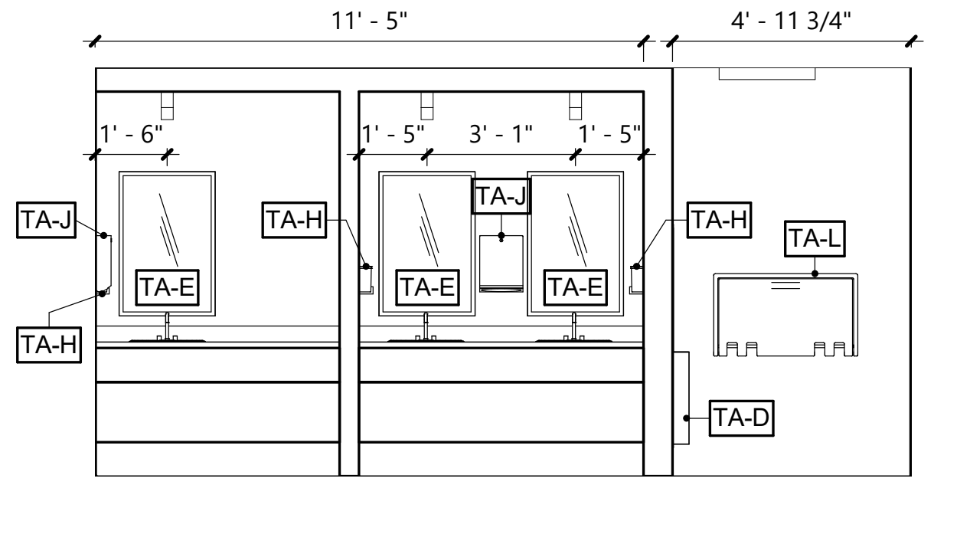
16 ENLARGED MALE RESTOOM - ELEVATION D
SCALE: 1/4" = 1'-0"



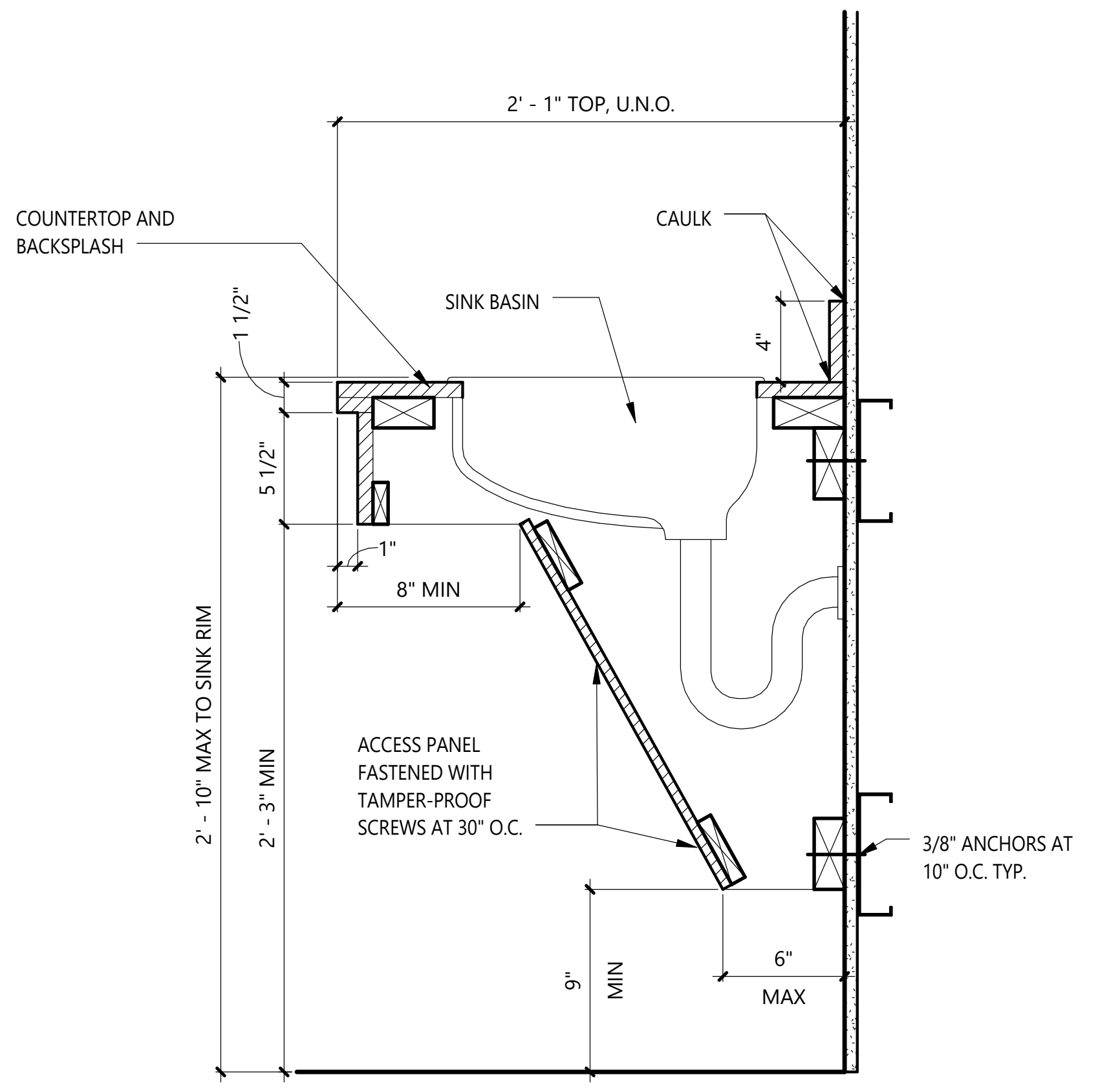
12 ENLARGED MALE RESTOOM - ELEVATION C
SCALE: 1/4" = 1'-0"



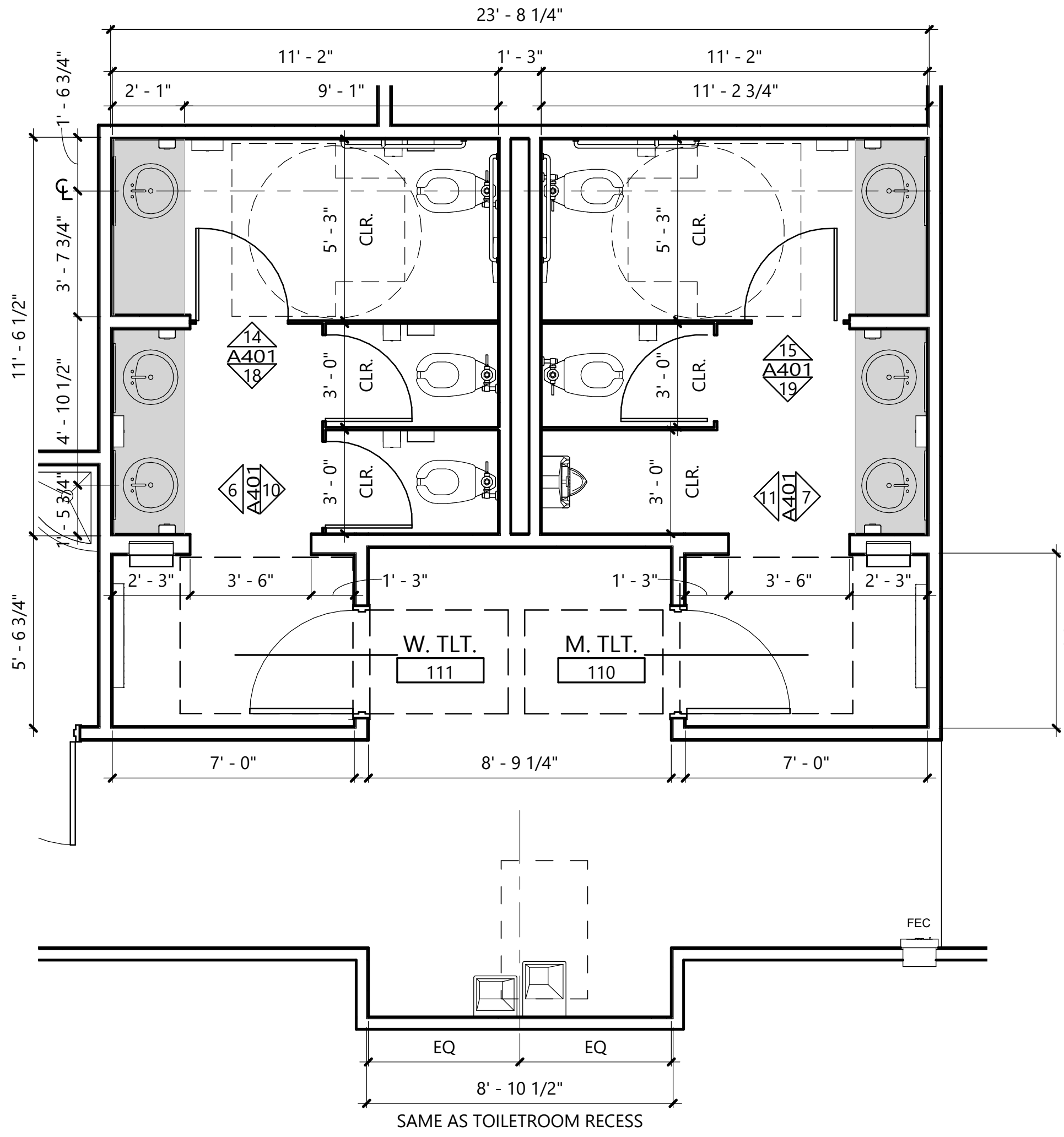
8 ENLARGED MALE RESTROOM - ELEVATION B
SCALE: 1/4" = 1'-0"



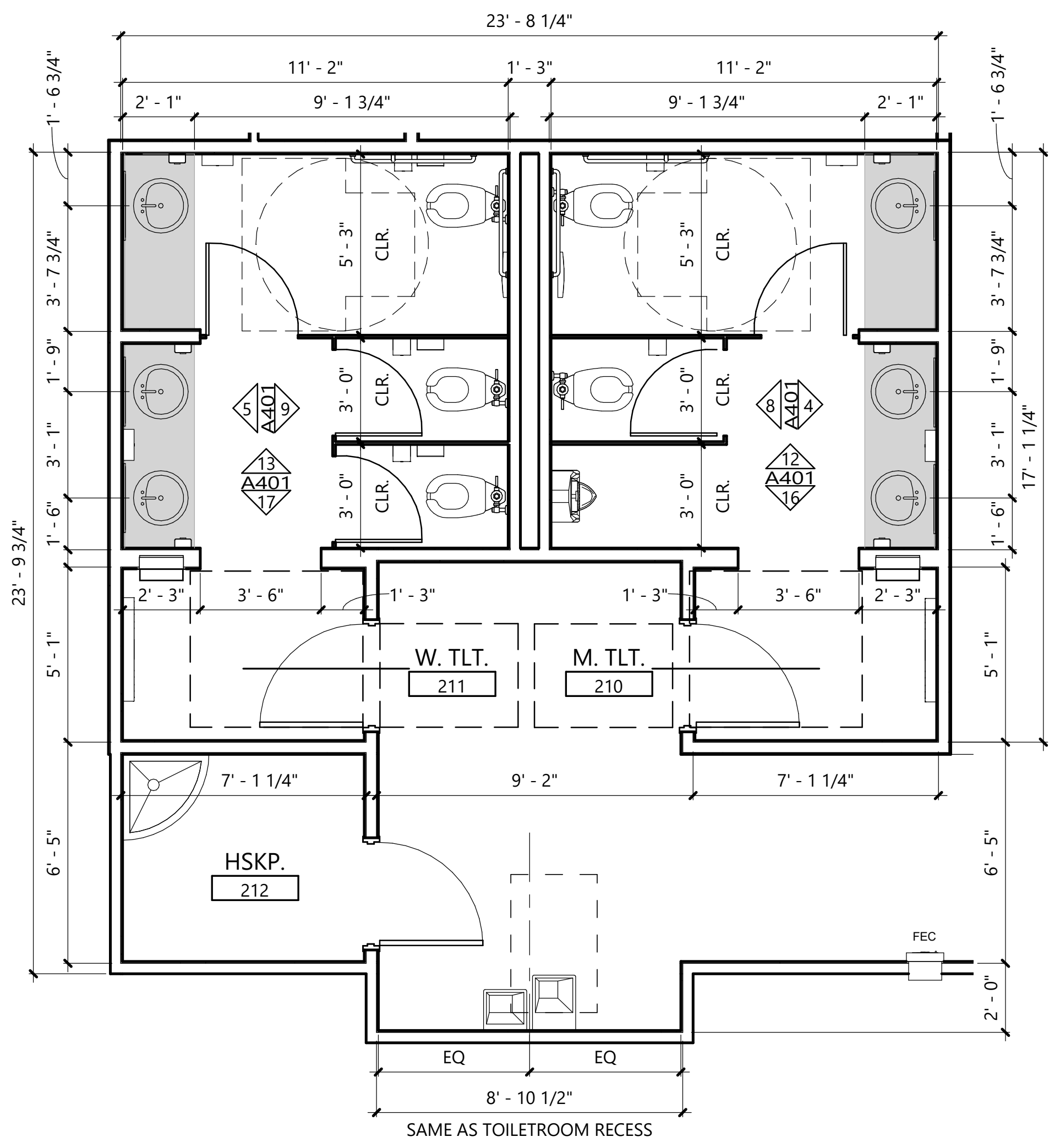
4 ENLARGED MALE RESTROOM - ELEVATION A
SCALE: 1/4" = 1'-0"


2' - 1" TOP, U.N.O.
COUNTERTOP AND BACKSPLASH
CAULK
SINK BASIN
1 1/2"
4"
5 1/2"
1"
8" MIN
2' - 10" MAX TO SINK RIM
2' - 3" MIN
ACCESS PANEL FASTENED WITH TAMPER-PROOF SCREWS AT 30" O.C.
3/8" ANCHORS AT 10" O.C. TYP.
9"
MIN
6"
MAX

3 CASEWORK SECTION - BASE CABINET
SCALE: 1 1/2" = 1'-0"



2 LEVEL 1 TOILETS - ENGLARGED PLAN
SCALE: 1/4" = 1'-0"



1 LEVEL 2 AND 3 TOILETS - ENLARGED PLAN TYPICAL
SCALE: 1/4" = 1'-0"

NOTES

1. SEE SPECIFICATIONS FOR MANUFACTURERS INFORMATION ON ALL TOILET ACCESSORIES.
2. ALL TOILET LOCATIONS, WHETHER NOTED OR NOT, SHALL BE PROVIDED WITH THE FOLLOWING UNLESS OTHERWISE NOTED:
   a) ONE MIRROR
   b) ONE TOILET PAPER DISPENSER
   c) ONE ROBE HOOK - MOUNTED BEHIND STALL DOORS.
   d) ONE SEAT COVER DISPENSER

TOILET ACCESSORY LEGEND

TYPE	DESCRIPTION
TA-A1	WATER CLOSET - FLOOR MOUNTED
TA-B	URINAL - WALL MOUNTED
TA-D	PAPER TOWEL / TRASH RECEPTICAL
TA-E	MIRROR
TA-F1	TOILET PAPER DISPENSER
TA-GB18	18" GRAB BAR - VERTICAL
TA-GB42	42" GRAB BAR
TA-H	SOAP DISPENSER
TA-J	PAPER TOWEL DISPENSER
TA-K	SANITARY NAPKIN DISPOSAL
TA-L	BABY CHANGING STATION
TA-N	SEAT COVER DISPENSER

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PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733

WILLIAM E. HEREFORD III

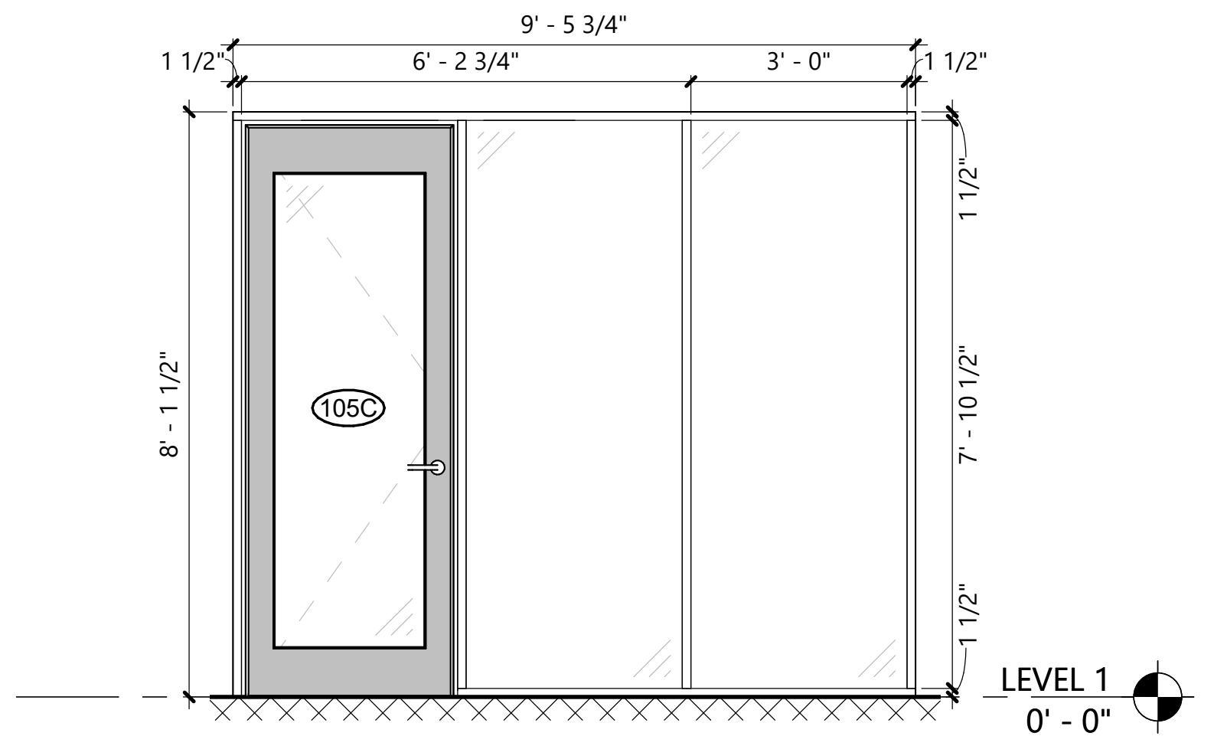
02/15/19

DATES OF ISSUANCE
1

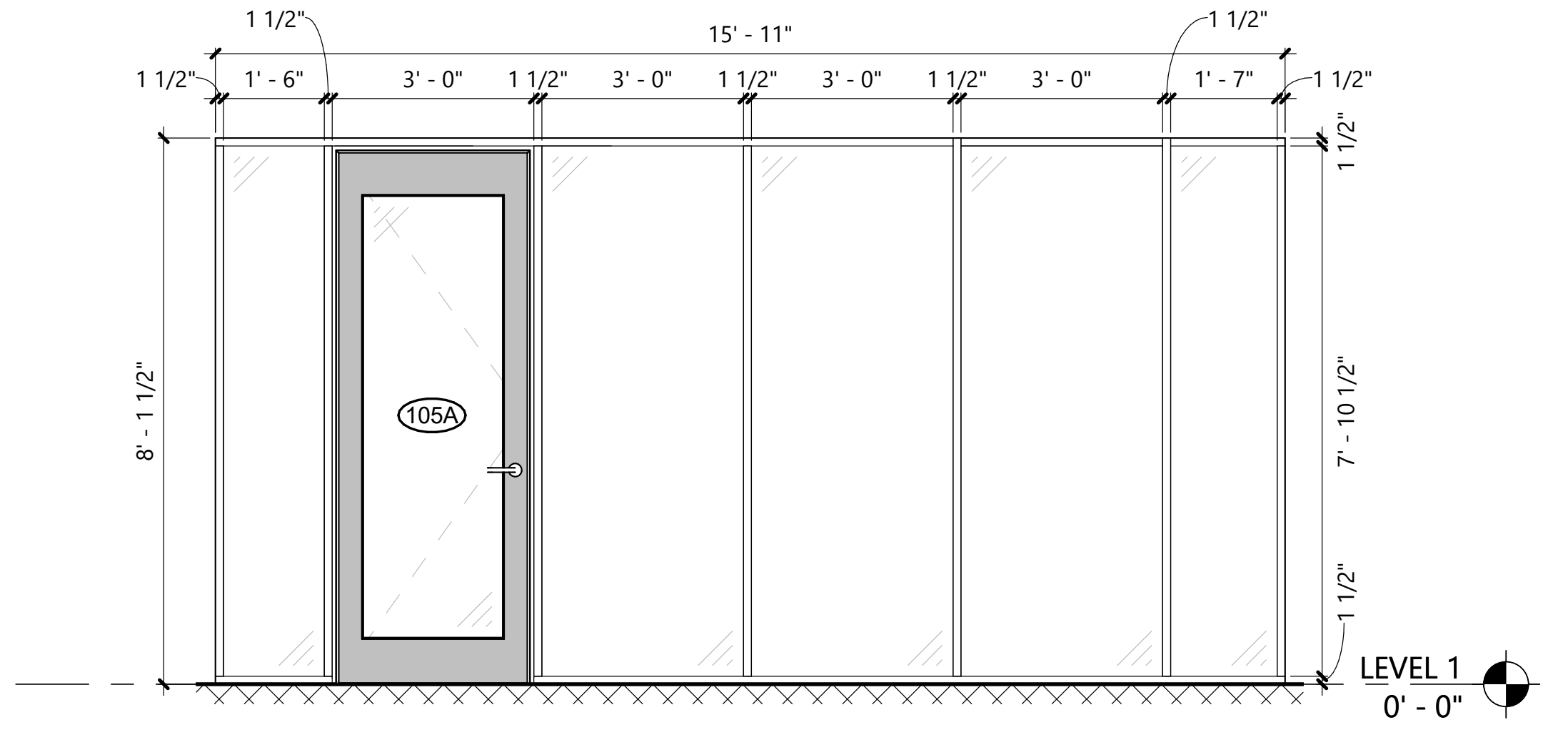
TITLE ENLARGED TOILET PLANS AND ELEVATIONS

SHEET A401

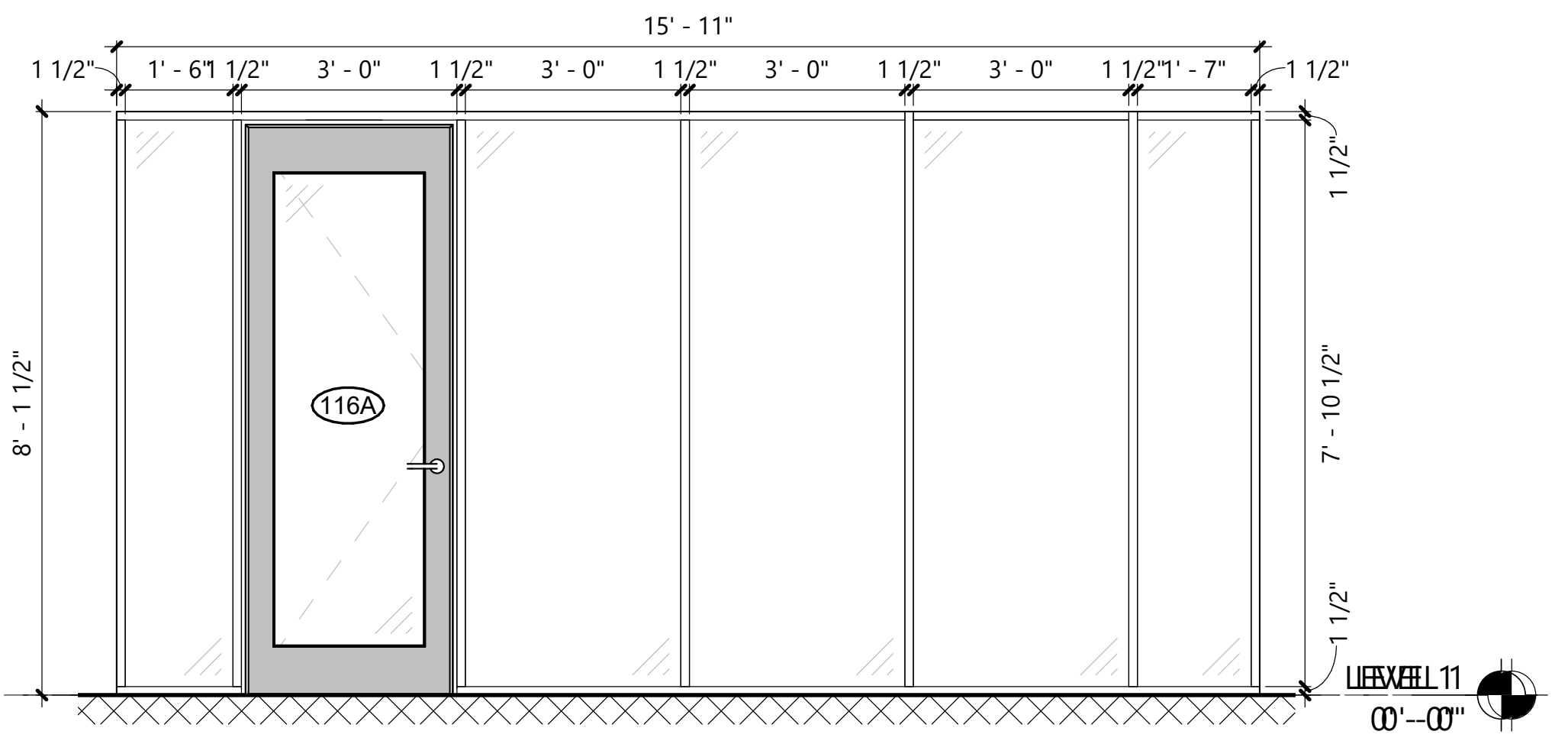
C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 6:00:54 PM



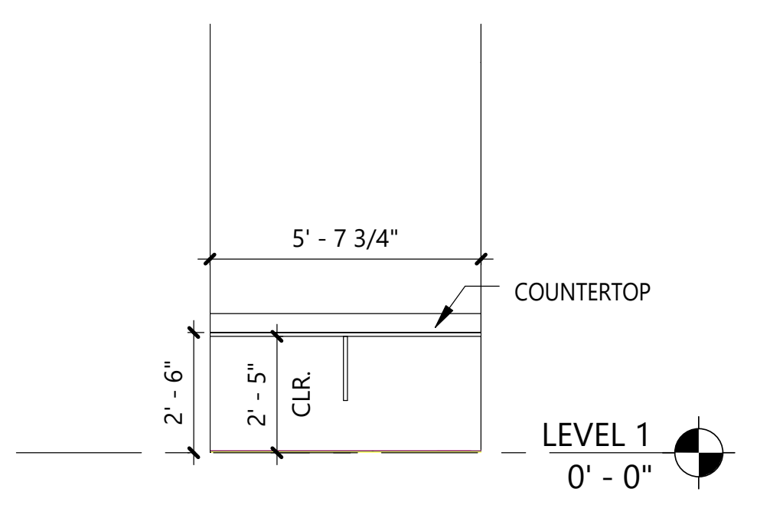
8 FIRST FLOOR ELEVATOR LOBBY 1 - Callout 1
SCALE: 3/8" = 1'-0"



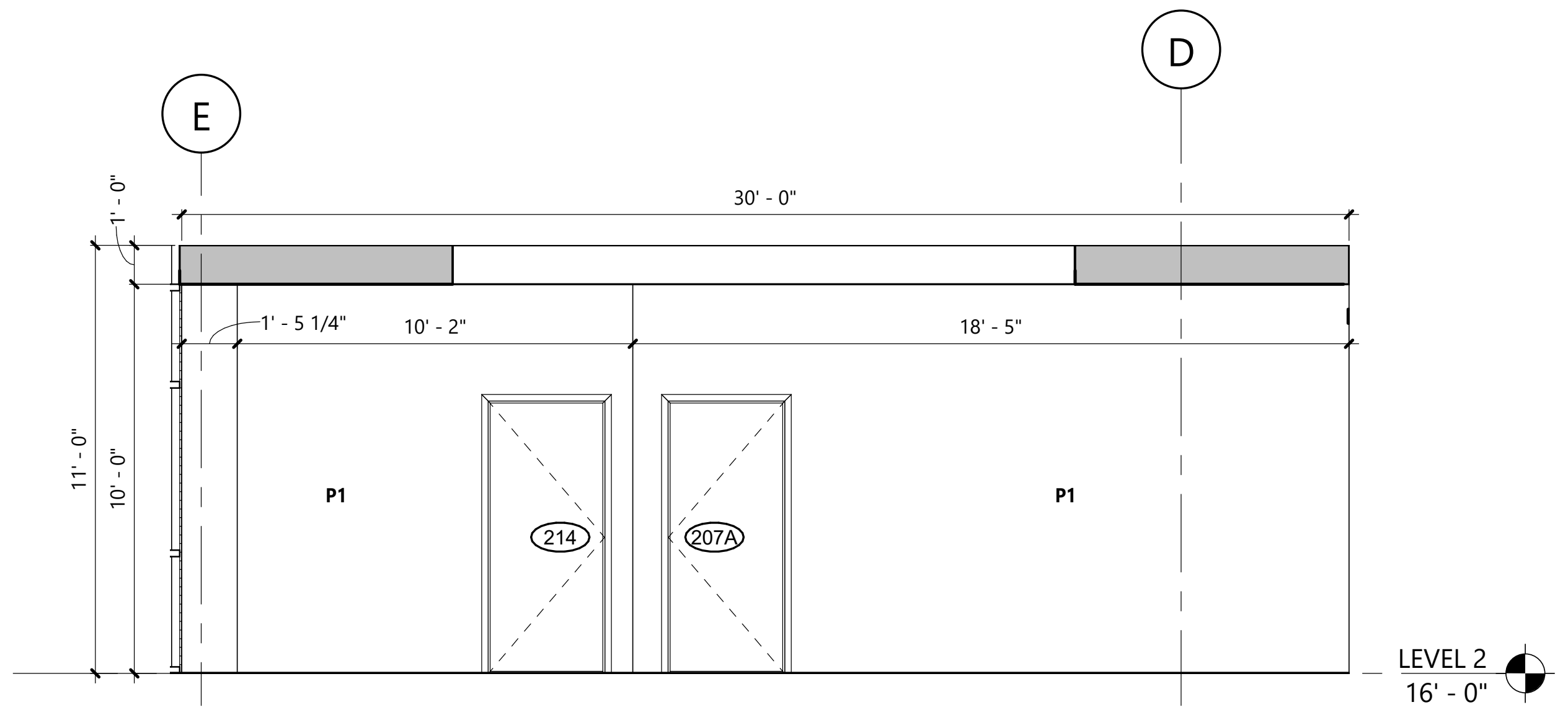
9 FIRST FLOOR ELEVATOR LOBBY 1 - Callout 2
SCALE: 3/8" = 1'-0"



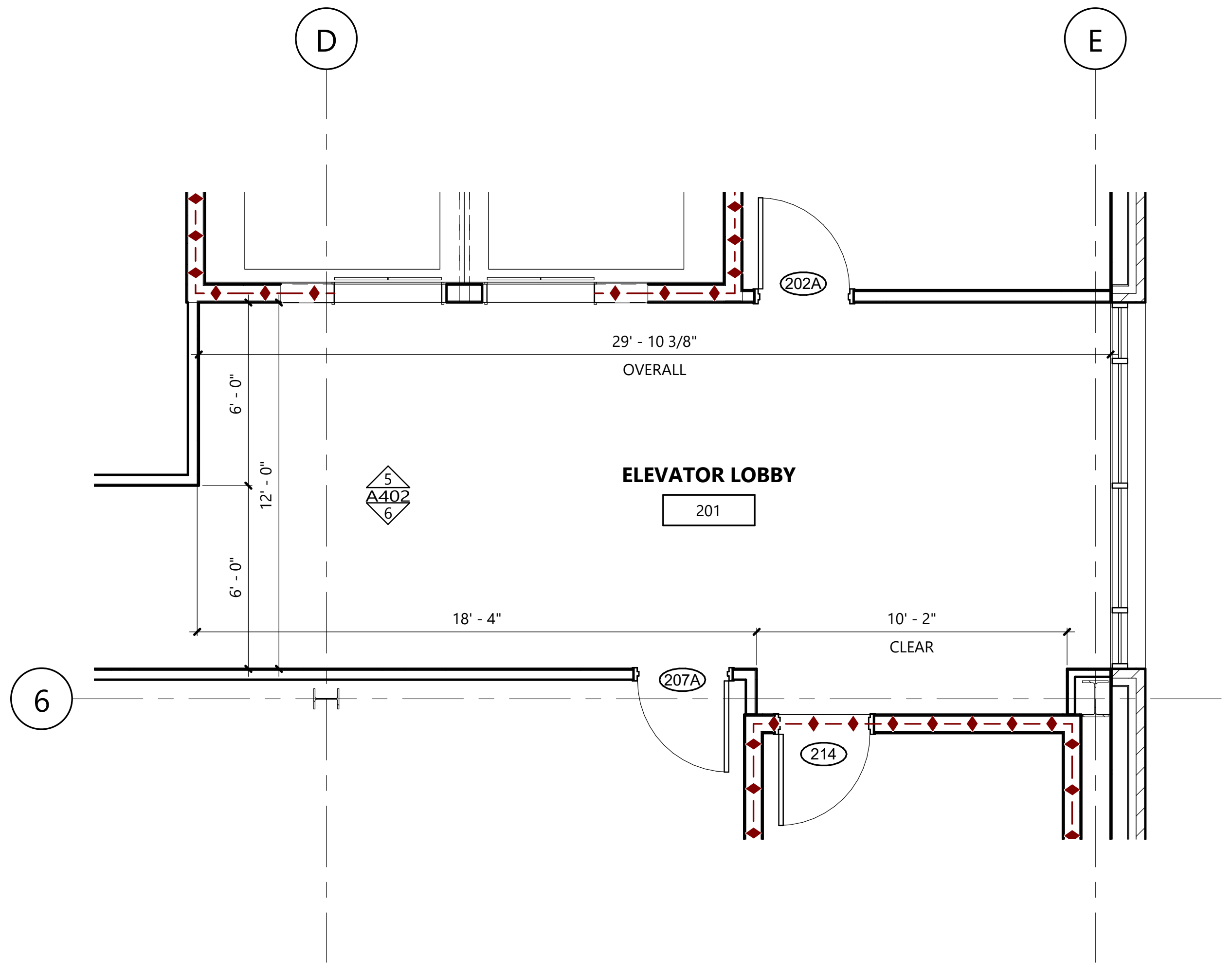
7 FIRST FLOOR ELEVATOR LOBBY 2 - Callout 1
SCALE: 3/8" = 1'-0"



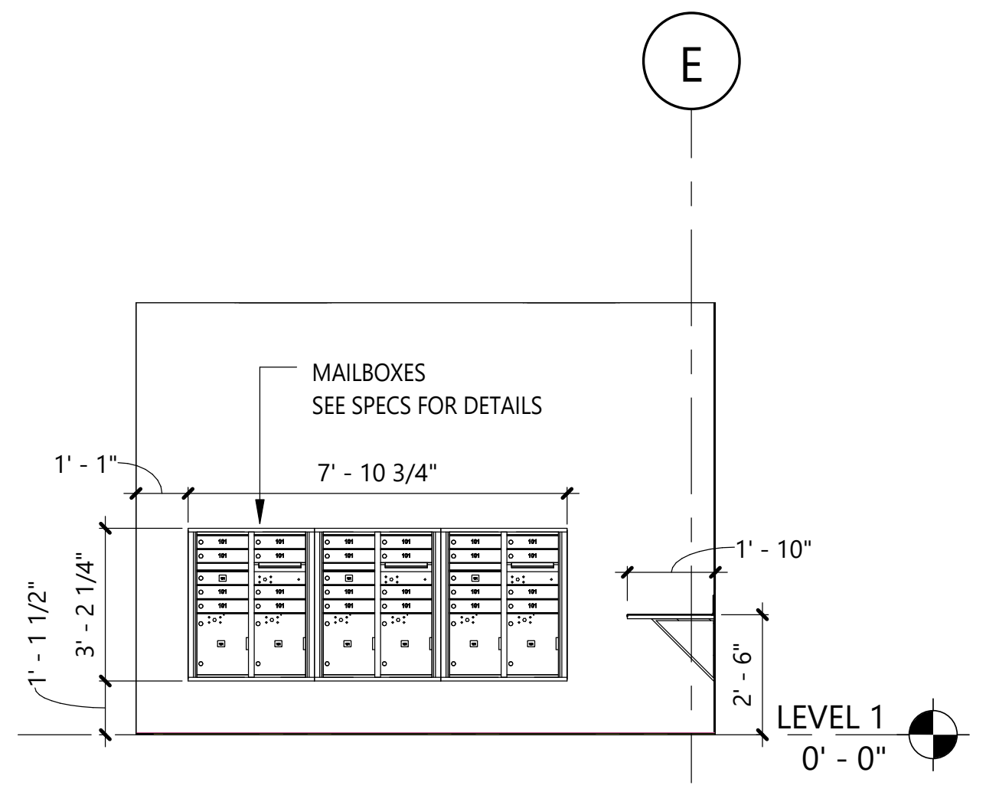
11 MAIL ROOM ELEVATION 2
SCALE: 1/4" = 1'-0"



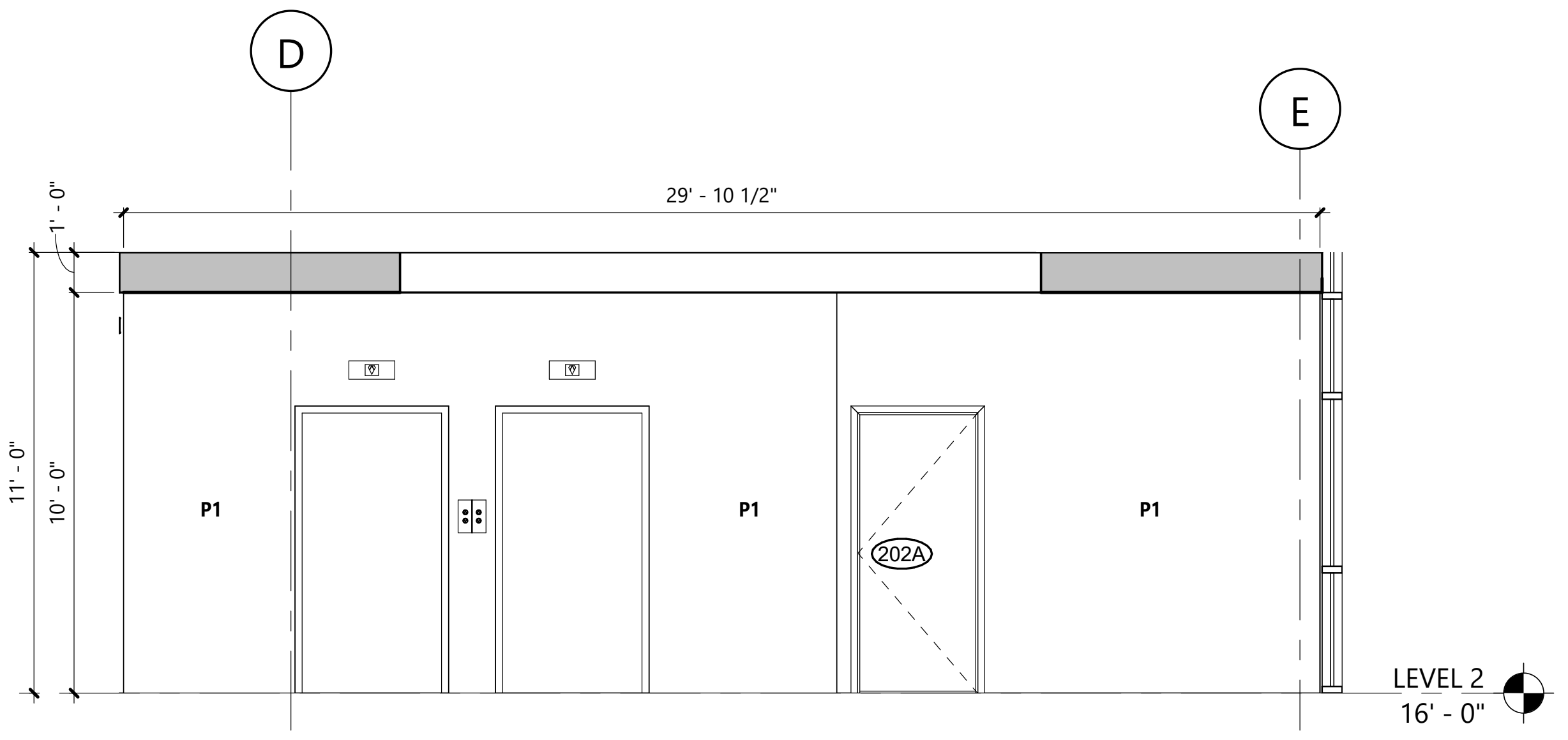
6 ELEVATOR LOBBY UPPER FLOORS SOUTH
SCALE: 1/4" = 1'-0"



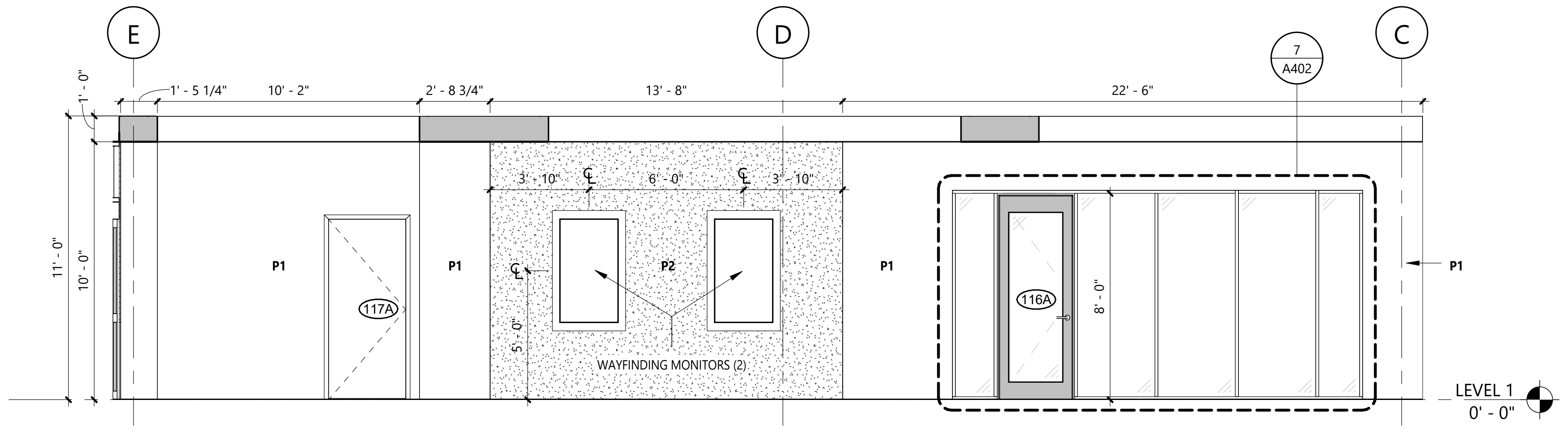
2 LEVEL 2 AND 3 - ELEVATOR LOBBY
SCALE: 1/4" = 1'-0"



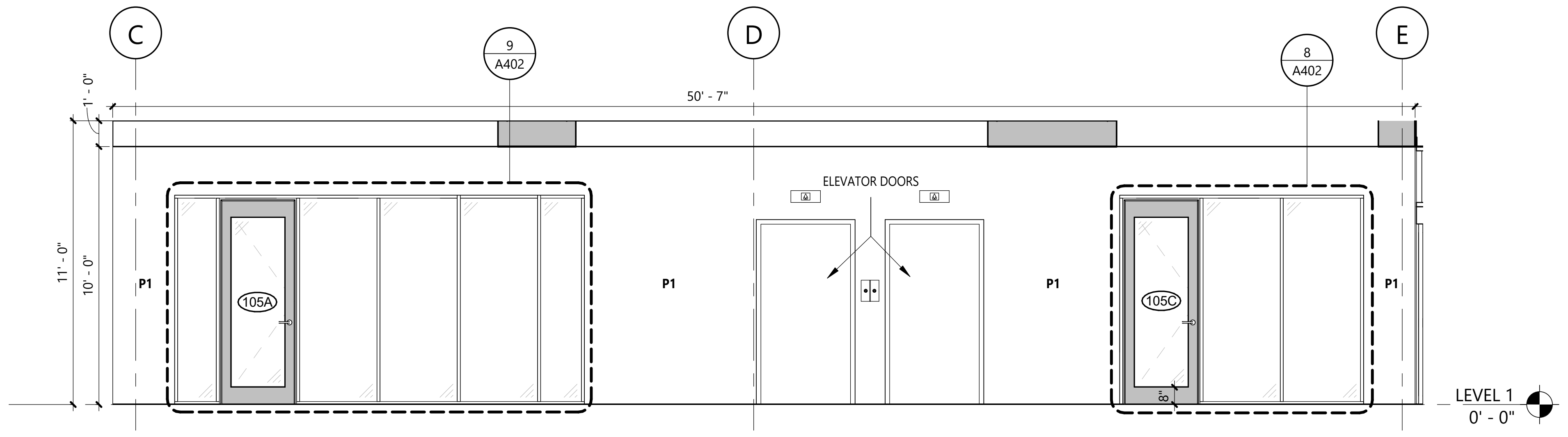
10 MAIL ROOM ELEVATION 1
SCALE: 1/4" = 1'-0"



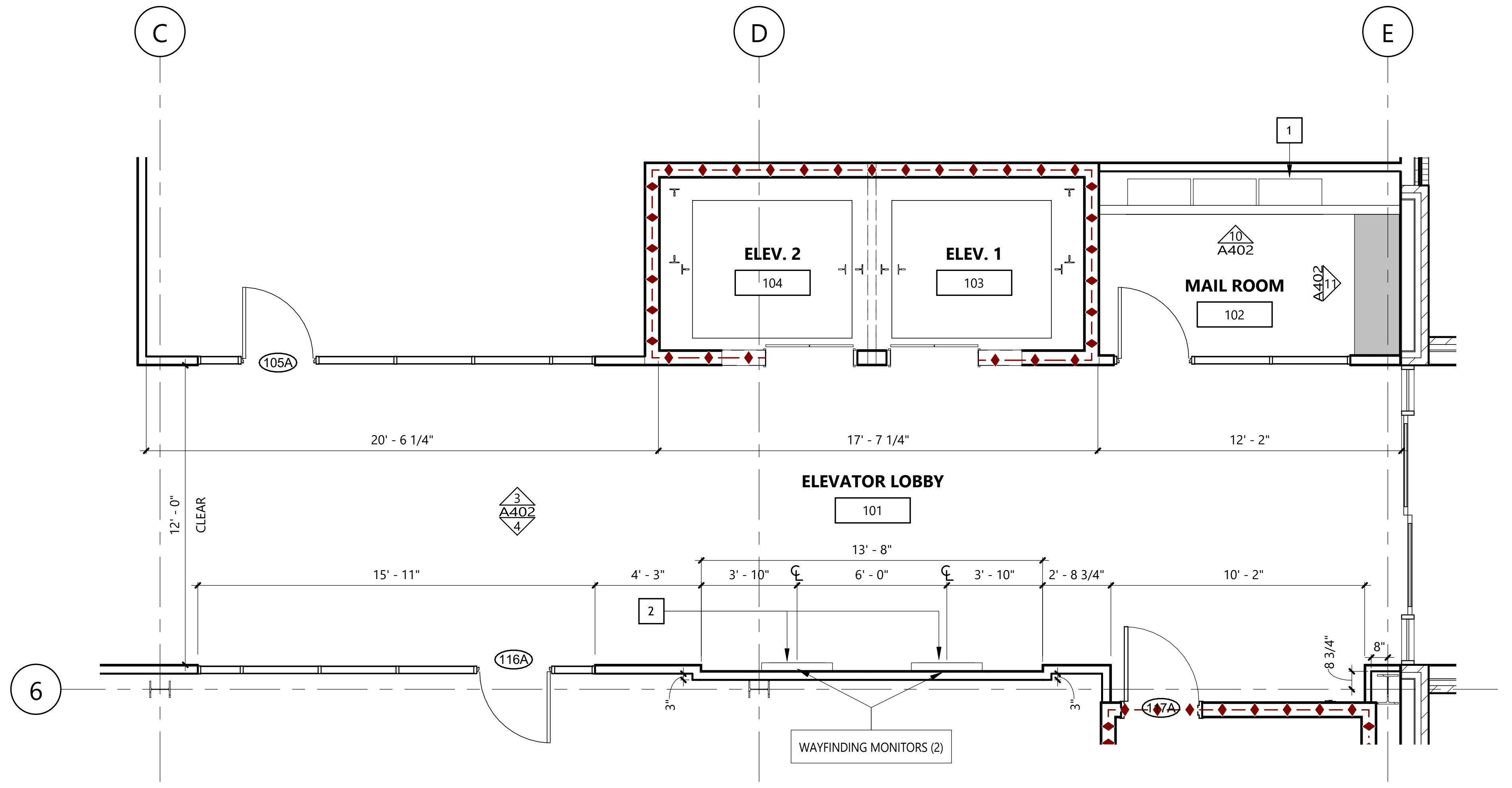
5 ELEVATOR LOBBY UPPER FLOORS NORTH
SCALE: 1/4" = 1'-0"



4 FIRST FLOOR ELEVATOR LOBBY 2
SCALE: 1/4" = 1'-0"



3 FIRST FLOOR ELEVATOR LOBBY 1
SCALE: 1/4" = 1'-0"



1 LEVEL 1 - ELEVATOR LOBBY
SCALE: 1/4" = 1'-0"

MATERIALS SCHEDULE

PATTERN AND MARKER	MANUFACTURER	PRODUCT AND COLOR FINISH
P1	REFER TO SPECIFICATIONS	**INTERIOR PAINT: SW 7004 - SNOWBOUND (SHERWIN WILLIAMS)**
P2	REFER TO SPECIFICATIONS	**INTERIOR PAINT: SW 7658 - GRAY CLOUDS (SHERWIN WILLIAMS)**
#	REFER TO SPECIFICATIONS	**GLAZING VISION GLASS : SOLARBAN 60 SOLARBRONZE +SOLARBAN 60 (3) CLEAR**
#	REFER TO SPECIFICATIONS	**GLAZING SPANDREL GLASS : SOLARBAN 60 SOLARBRONZE + SOLARBAN 60 SPANDREL**
#	REFER TO SPECIFICATIONS	**ALUMINUM WINDOW FRAMES : CLEAR ANODIZED**

KEYED NOTES

#

Note Number	Note
1	MAILBOXES ARE TO BE LOCATED ON THIS WALL. REFER TO VENDOR DRAWINGS FOR SIZING SPECS.
2	PROVIDE POWER & DATA OUTLETS FOR TWO WAYFINDING MONITORS LOCATED HERE. GC IS TO PROVIDE ELECTRICAL AND DATA CONNECTIONS ONLY. THE OWNER WILL PROVIDE THE WAYFINDING MONITORS.

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALLEN DOOLEY
A-7733
Thomas Allen Dooley
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19
1

TITLE
ENLARGED ELEVATOR LOBBY ELEVATIONS

SHEET
A402

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 6:00:56 PM
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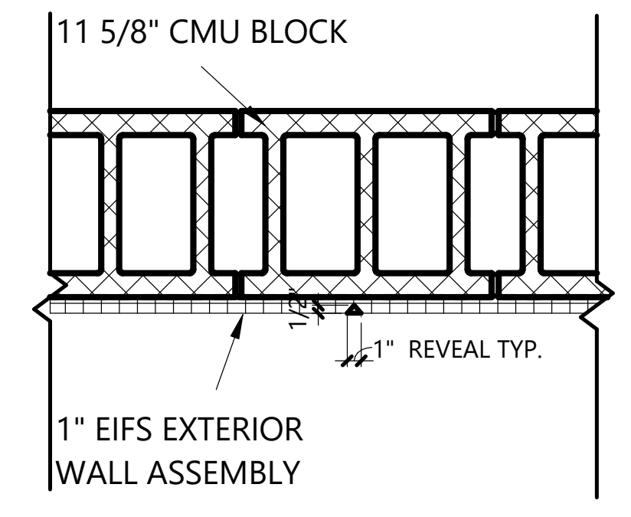
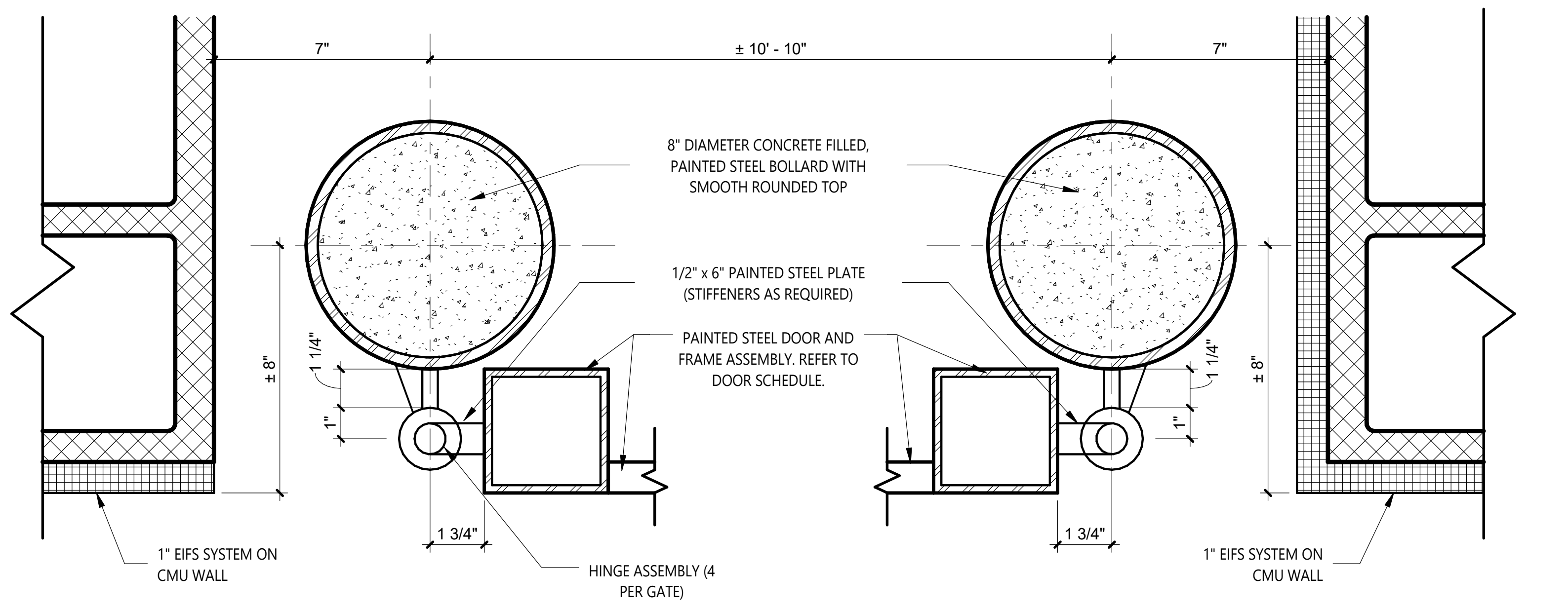
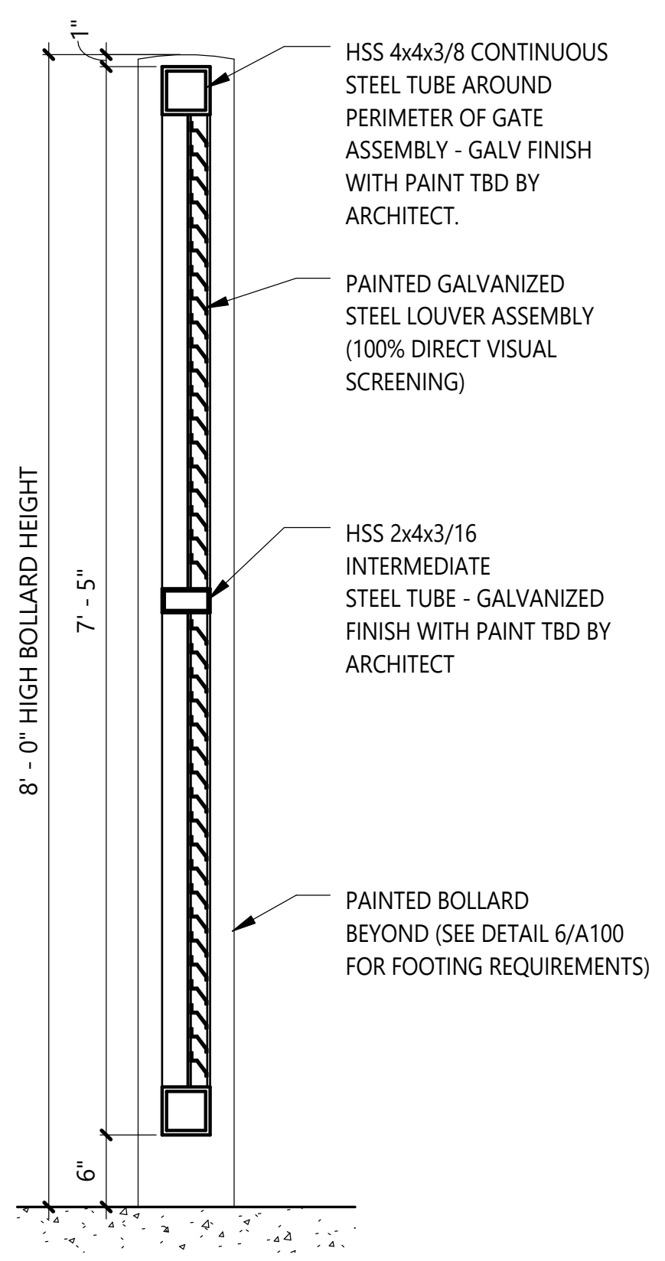


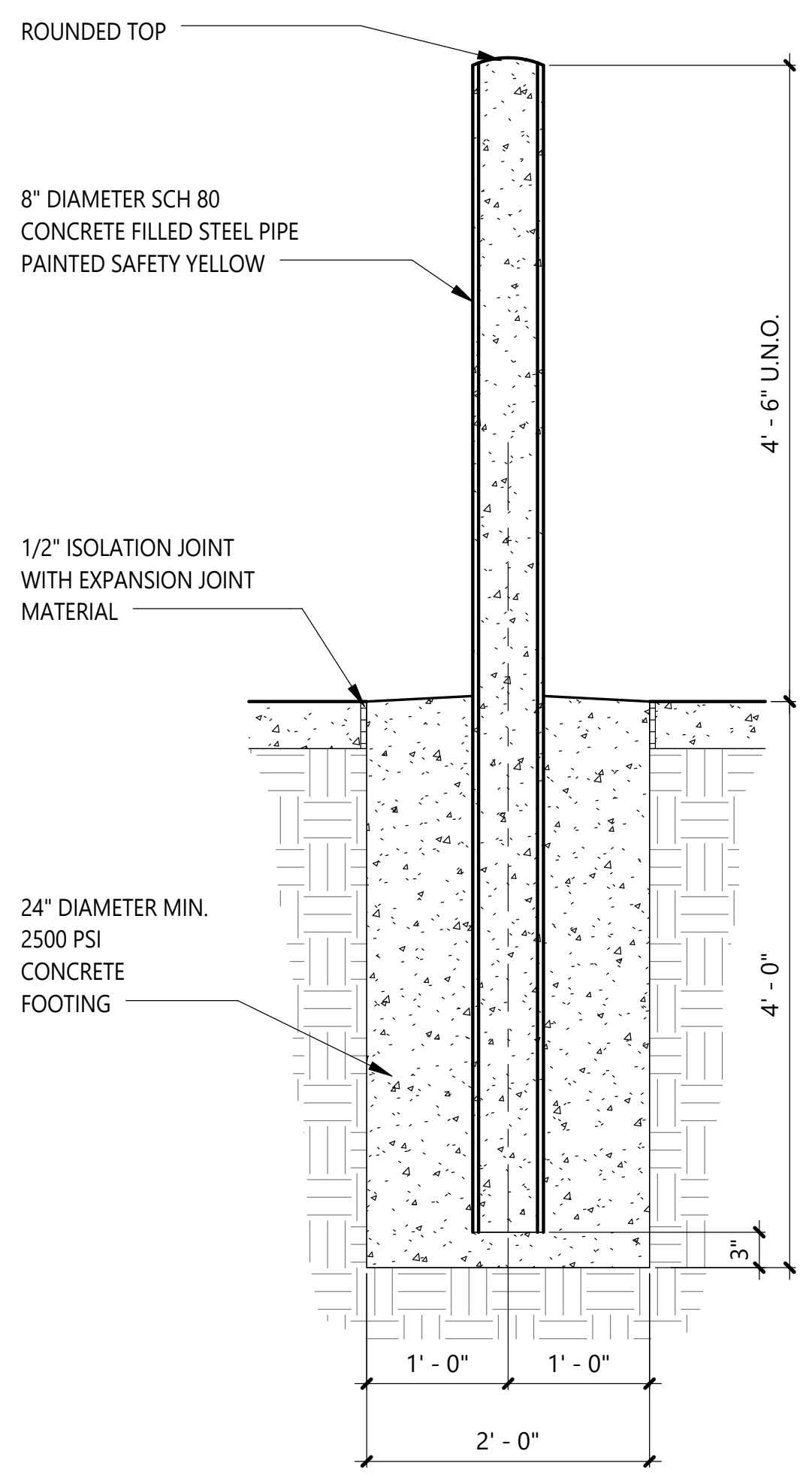
8 EIFS REVEAL 1/2"
SCALE: 1" = 1'-0"


7"
± 10' - 10"
7"
8" DIAMETER CONCRETE FILLED, PAINTED STEEL BOLLARD WITH SMOOTH ROUNDED TOP
1/2" x 6" PAINTED STEEL PLATE (STIFFENERS AS REQUIRED)
PAINTED STEEL DOOR AND FRAME ASSEMBLY. REFER TO DOOR SCHEDULE.
± 8"
1 1/4"
1"
1 3/4"
1" EIFS SYSTEM ON CMU WALL
HINGE ASSEMBLY (4 PER GATE)
1 3/4"
1 1/4"
1"
± 8"
1" EIFS SYSTEM ON CMU WALL

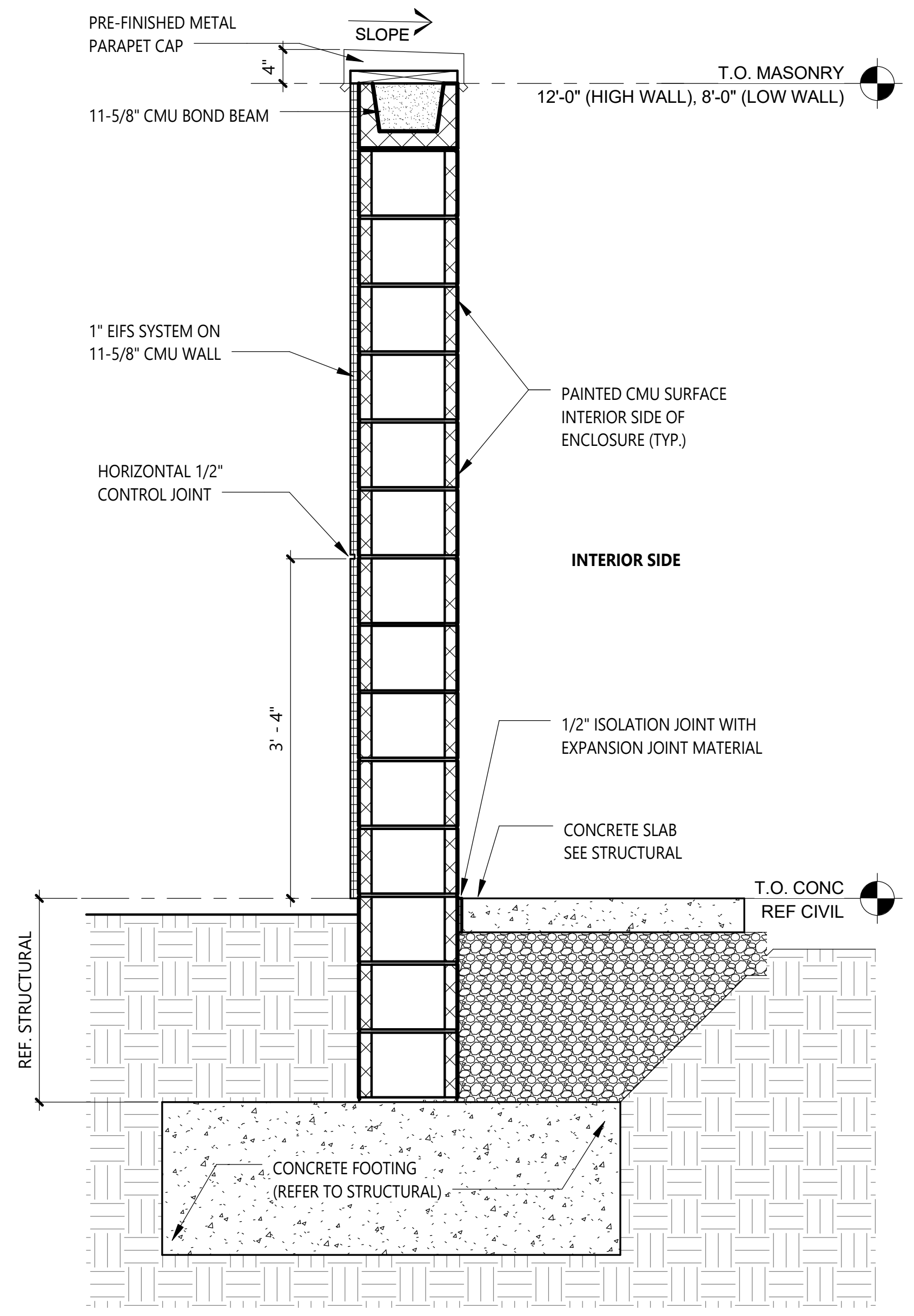
3 DUMPSTER GATE DETAIL
SCALE: 3" = 1'-0"


1"
8' - 0" HIGH BOLLARD HEIGHT
7' - 5"
6"
HSS 4x4x3/8 CONTINUOUS STEEL TUBE AROUND PERIMETER OF GATE ASSEMBLY - GALV FINISH WITH PAINT TBD BY ARCHITECT.
PAINTED GALVANIZED STEEL LOUVER ASSEMBLY (100% DIRECT VISUAL SCREENING)
HSS 2x4x3/16 INTERMEDIATE STEEL TUBE - GALVANIZED FINISH WITH PAINT TBD BY ARCHITECT
PAINTED BOLLARD BEYOND (SEE DETAIL 6/A100 FOR FOOTING REQUIREMENTS)

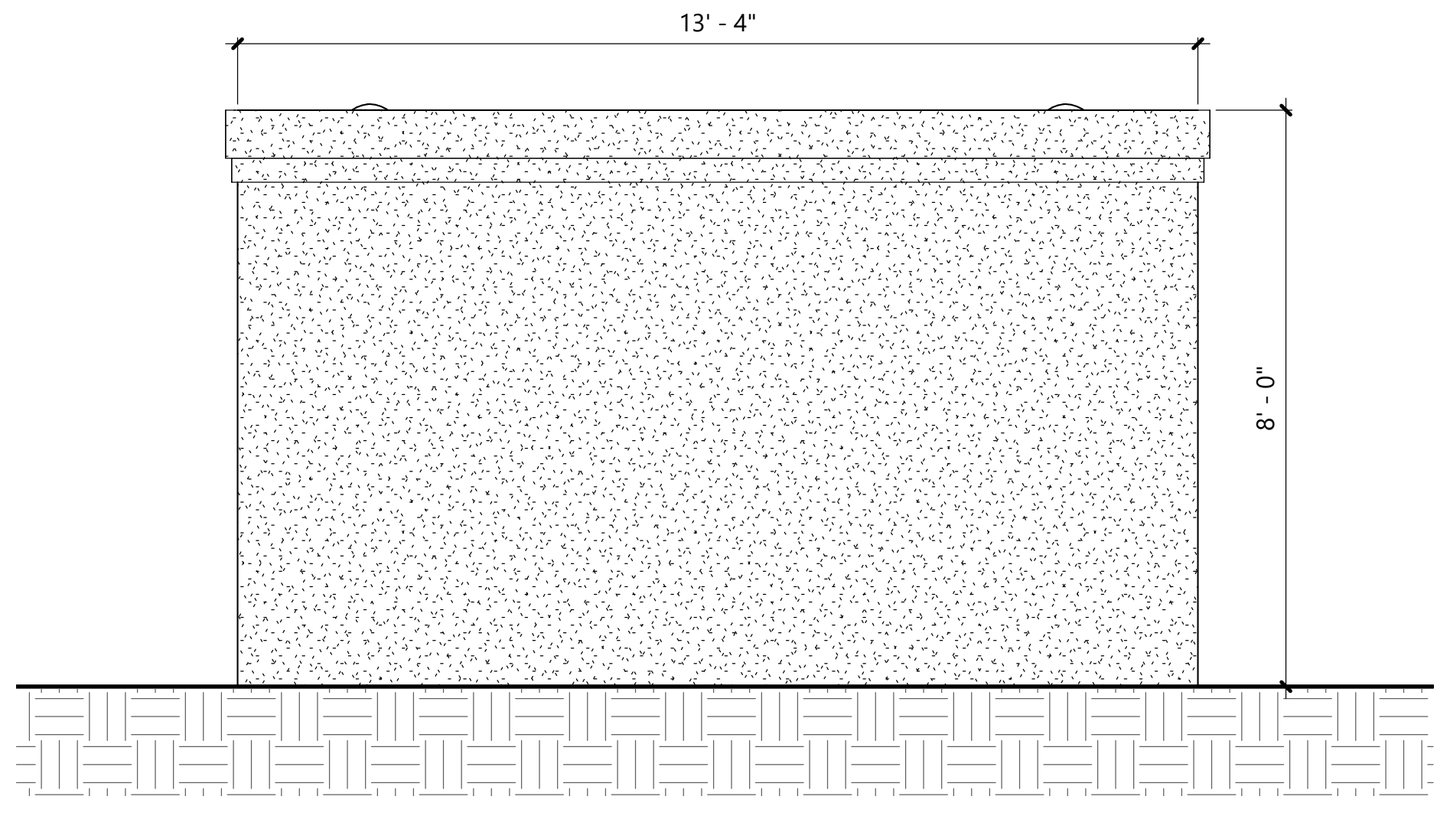
7 GATE SECTION
SCALE: 3/4" = 1'-0"


ROUNDED TOP
8" DIAMETER SCH 80 CONCRETE FILLED STEEL PIPE PAINTED SAFETY YELLOW
1/2" ISOLATION JOINT WITH EXPANSION JOINT MATERIAL
24" DIAMETER MIN. 2500 PSI CONCRETE FOOTING
4' - 6" U.N.O.
4' - 0"
3"
1' - 0"
1' - 0"
2' - 0"

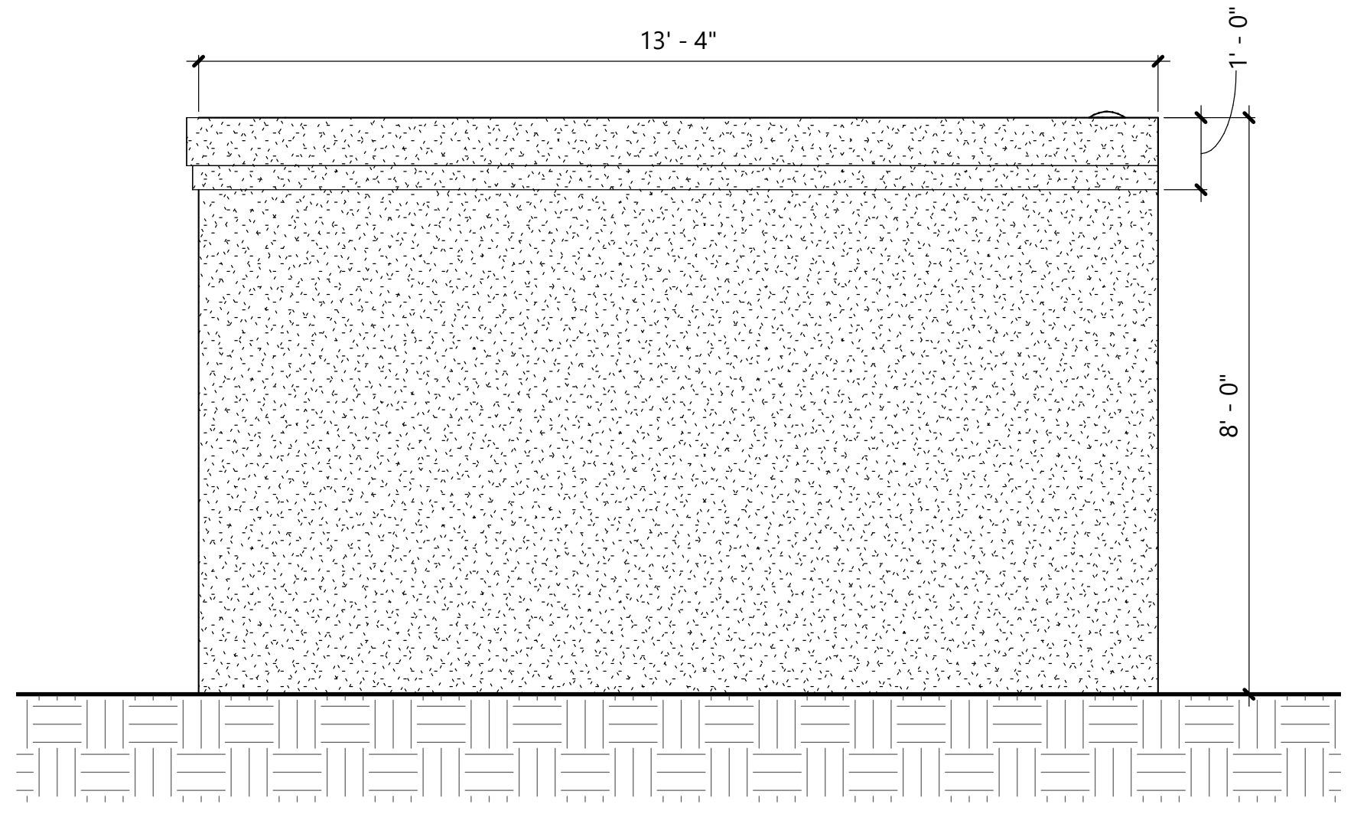
6 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"


PRE-FINISHED METAL PARAPET CAP
SLOPE
4"
T.O. MASONRY
12'-0" (HIGH WALL), 8'-0" (LOW WALL)
11-5/8" CMU BOND BEAM
1" EIFS SYSTEM ON 11-5/8" CMU WALL
PAINTED CMU SURFACE INTERIOR SIDE OF ENCLOSURE (TYP.)
HORIZONTAL 1/2" CONTROL JOINT
INTERIOR SIDE
3' - 4"
1/2" ISOLATION JOINT WITH EXPANSION JOINT MATERIAL
CONCRETE SLAB SEE STRUCTURAL
T.O. CONC
REF CIVIL
REF. STRUCTURAL
CONCRETE FOOTING (REFER TO STRUCTURAL)

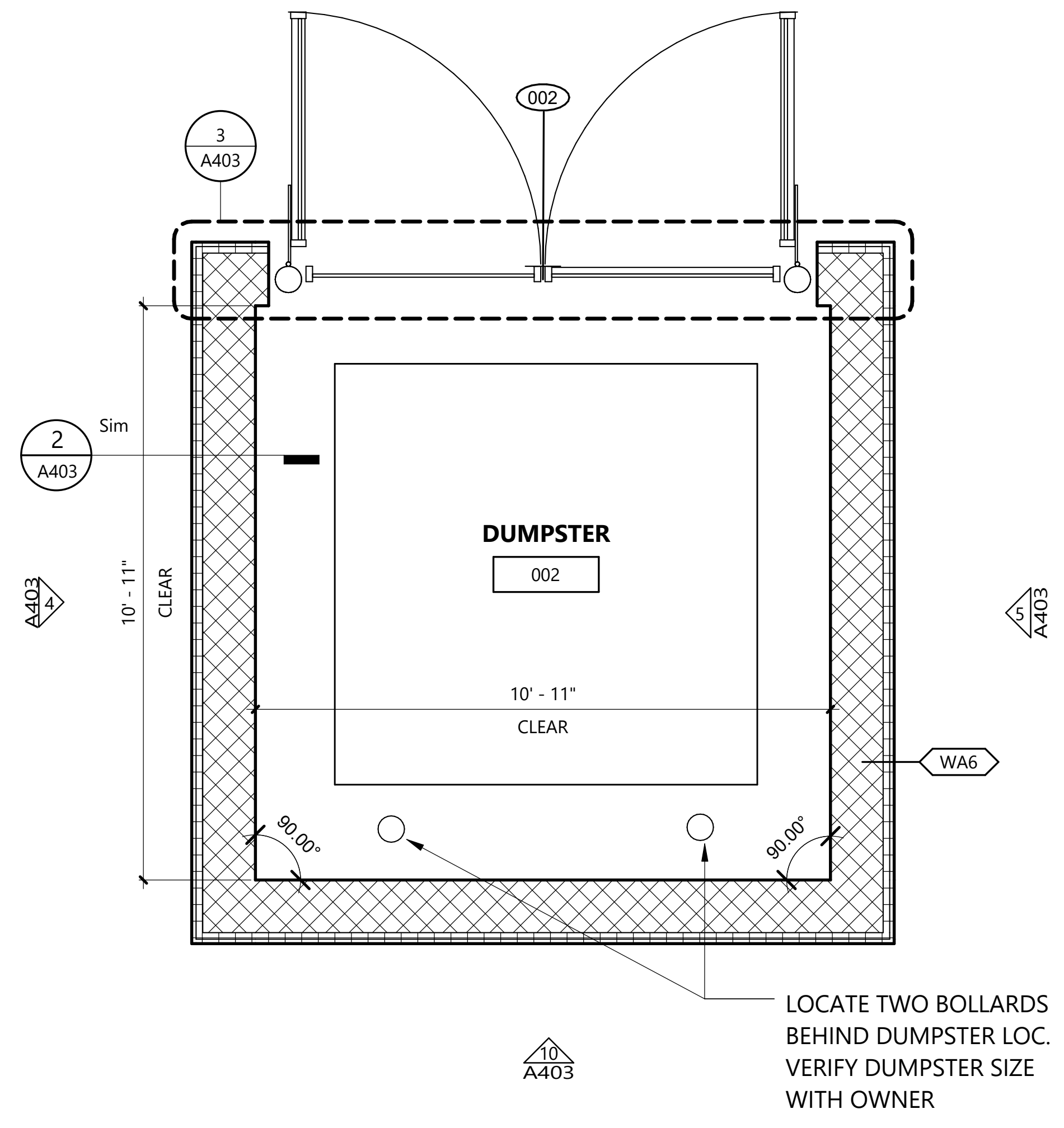
2 DUMPSTER ENCLOSURE WALL SECTION
SCALE: 3/4" = 1'-0"



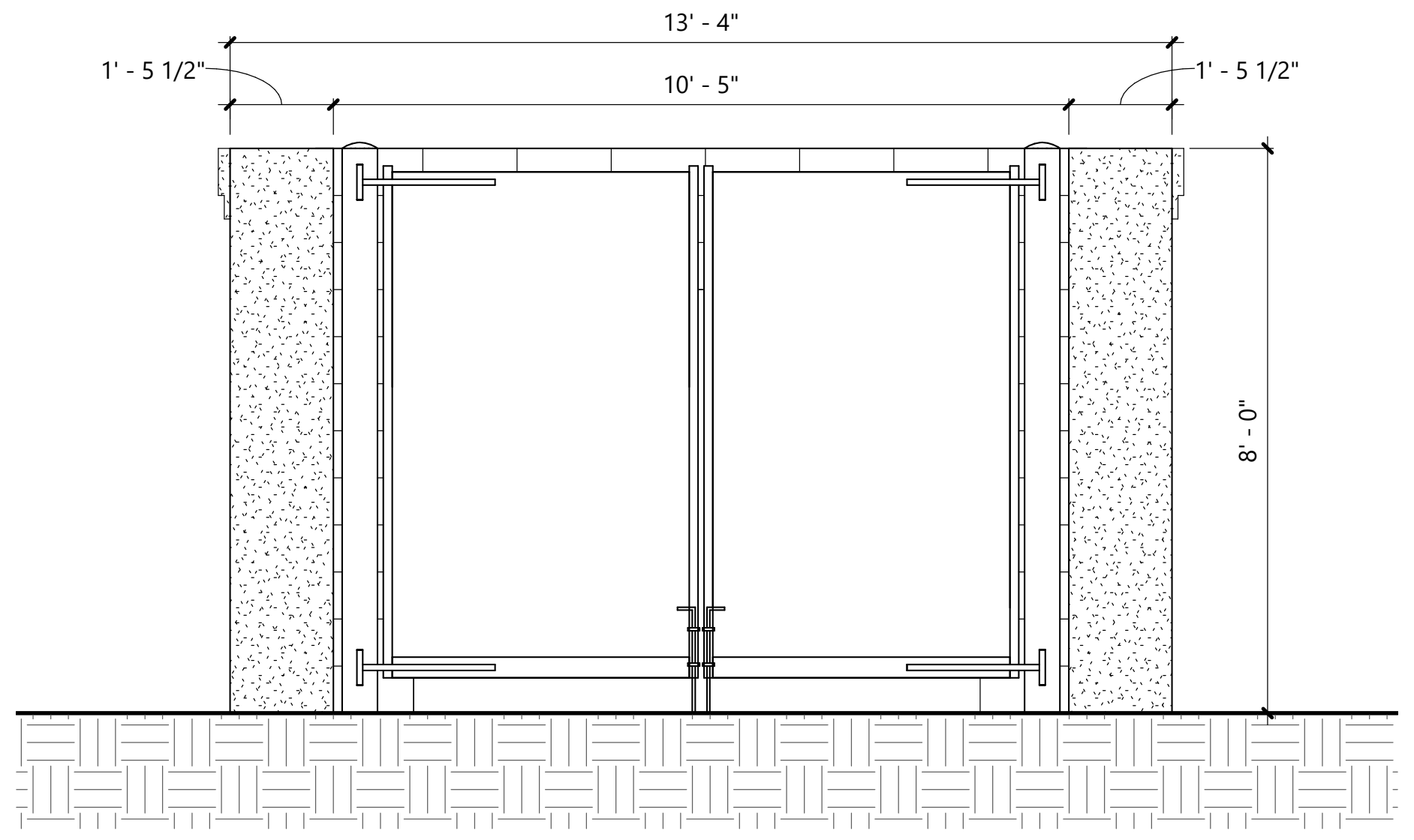
10 ENCLOSURE ELEVATION - SOUTH
SCALE: 3/8" = 1'-0"



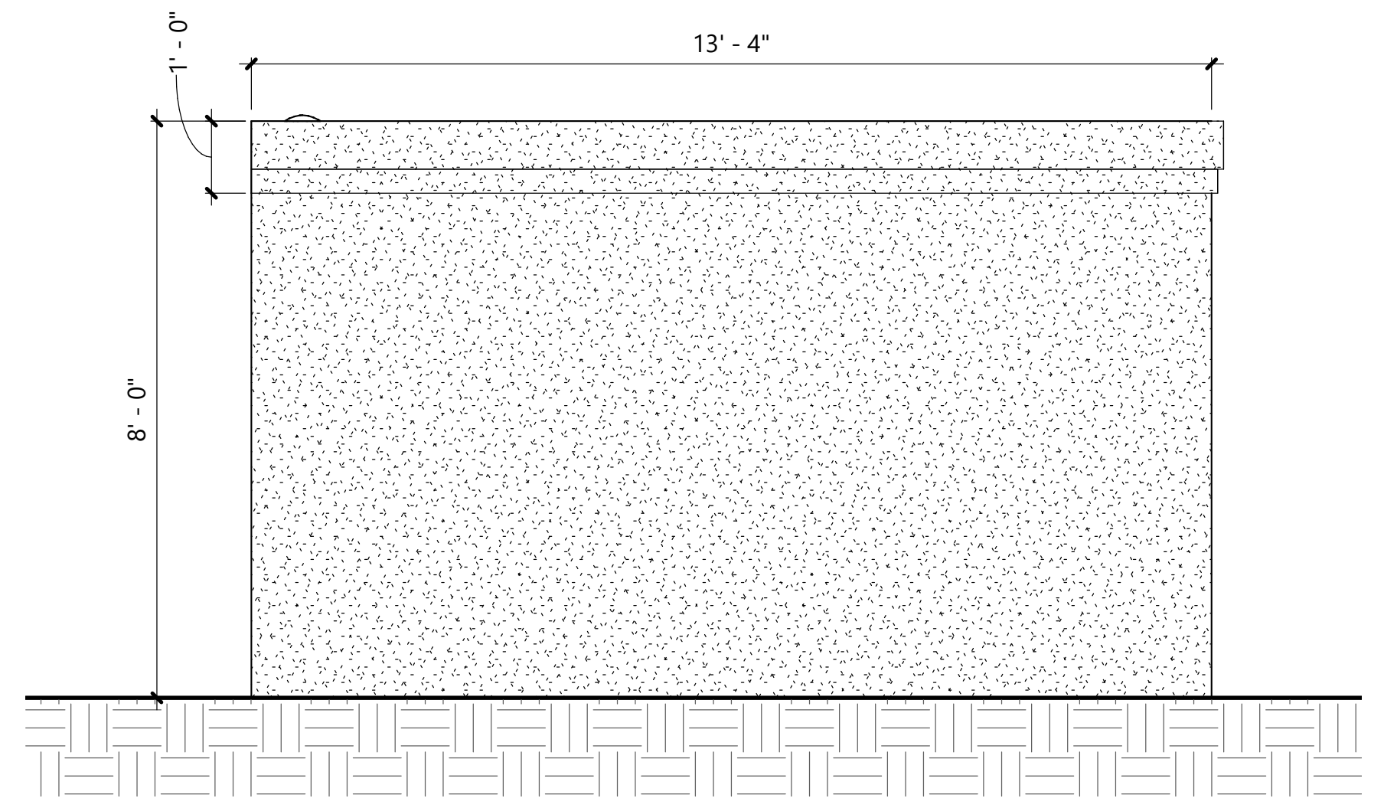
5 ENCLOSURE ELEVATION - EAST
SCALE: 3/8" = 1'-0"



1 DUMPSTER ENCLOSURE PLAN
SCALE: 3/8" = 1'-0"



9 ENCLOSURE ELEVATION - NORTH
SCALE: 3/8" = 1'-0"



4 ENCLOSURE ELEVATION - WEST
SCALE: 3/8" = 1'-0"

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STATE OF MISSOURI
THOMAS ALAN DOOLEY
A-7733
REGISTERED ARCHITECT
5-19

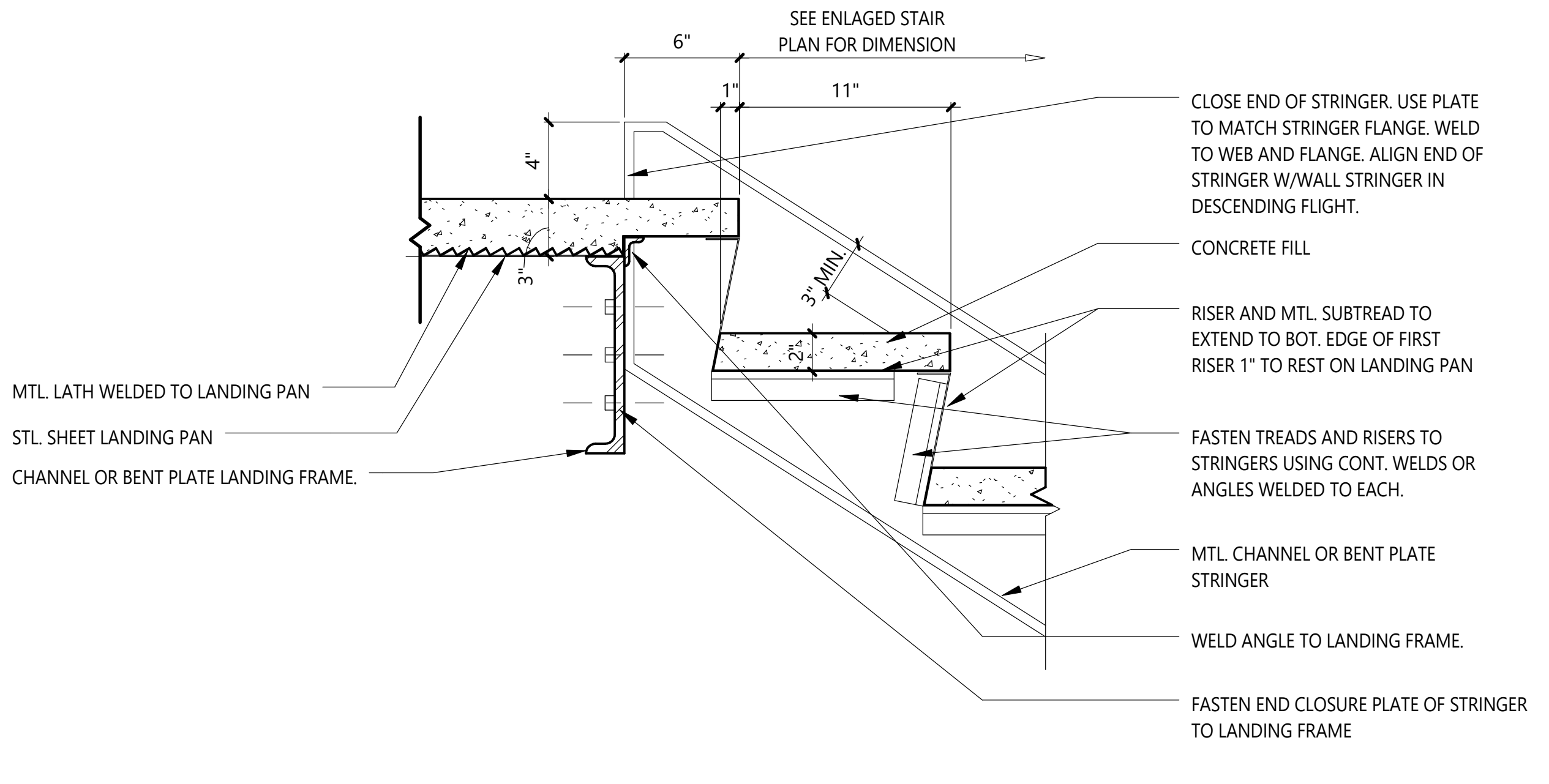
WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

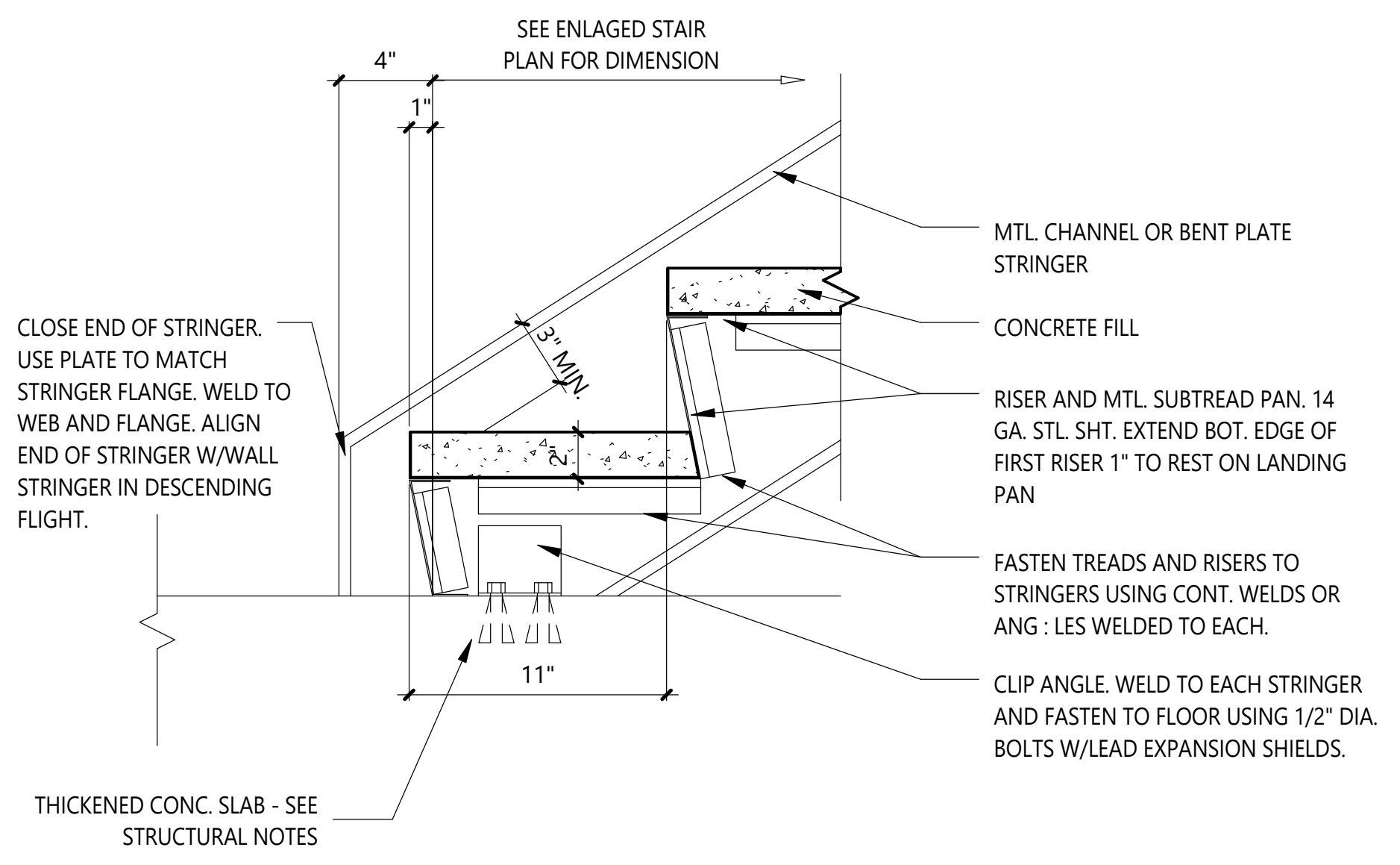
TITLE
ENLARGED DUMPSTER PLANS AND ELEVATIONS

SHEET
A403

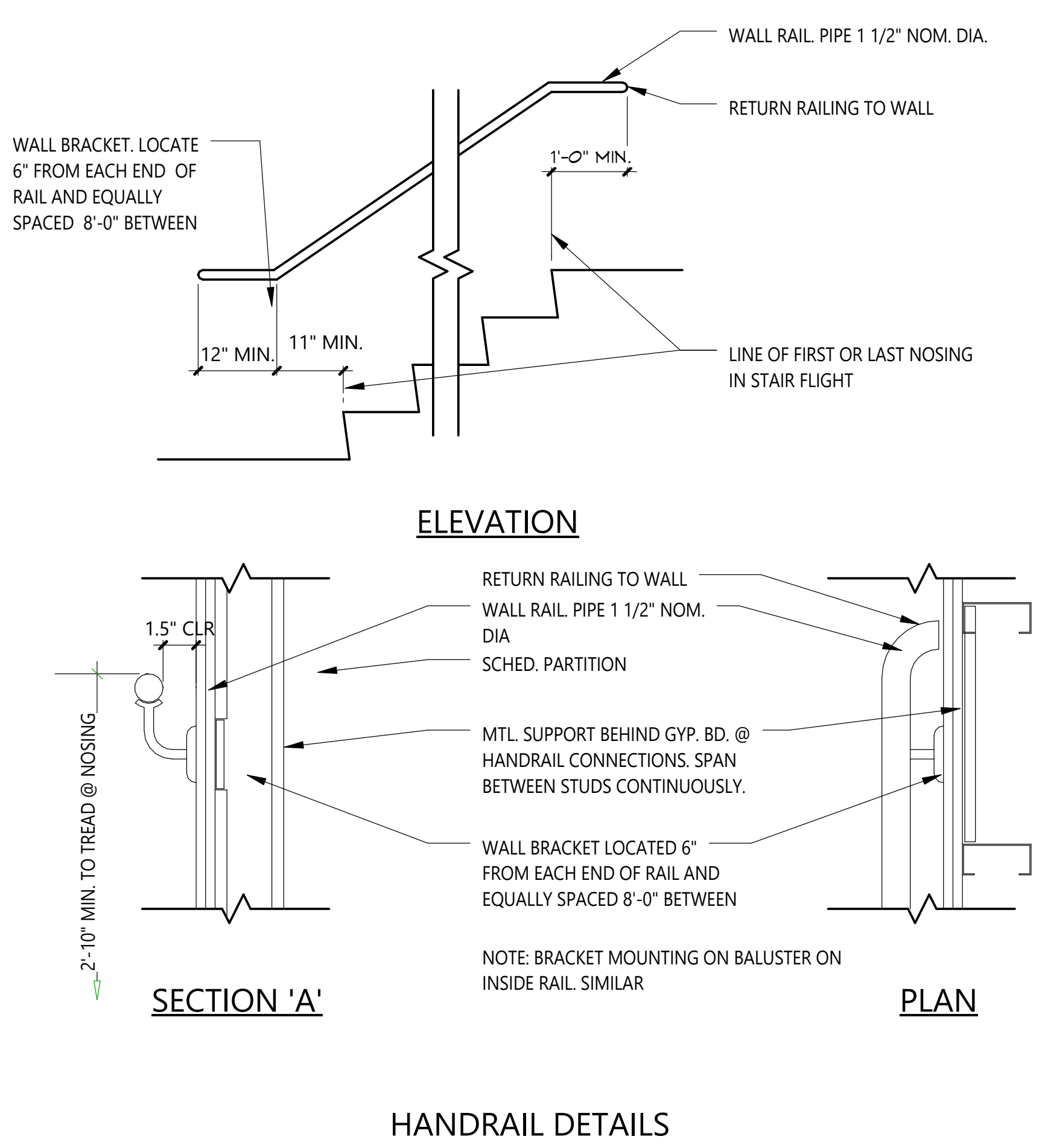
C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 6:00:58 PM


SEE ENLAGED STAIR PLAN FOR DIMENSION
6"
1"
11"
4"
3"
3" MIN.
2"
CLOSE END OF STRINGER. USE PLATE TO MATCH STRINGER FLANGE. WELD TO WEB AND FLANGE. ALIGN END OF STRINGER W/WALL STRINGER IN DESCENDING FLIGHT.
CONCRETE FILL
RISER AND MTL. SUBTREAD TO EXTEND TO BOT. EDGE OF FIRST RISER 1" TO REST ON LANDING PAN
FASTEN TREADS AND RISERS TO STRINGERS USING CONT. WELDS OR ANGLES WELDED TO EACH.
MTL. CHANNEL OR BENT PLATE STRINGER
WELD ANGLE TO LANDING FRAME.
FASTEN END CLOSURE PLATE OF STRINGER TO LANDING FRAME
MTL. LATH WELDED TO LANDING PAN
STL. SHEET LANDING PAN
CHANNEL OR BENT PLATE LANDING FRAME.

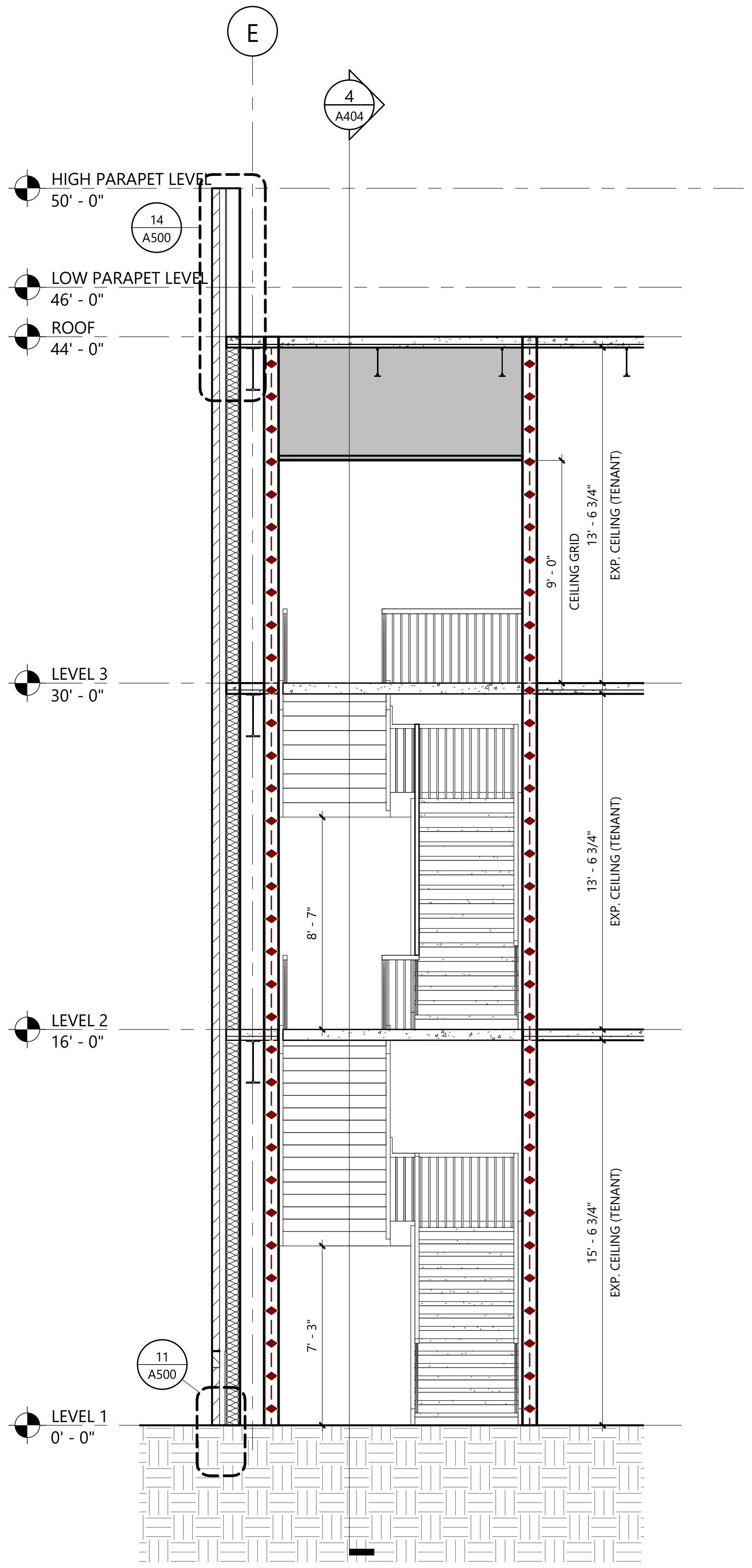
8 STAIR DETAIL - TOP LANDING
SCALE: 1 1/2" = 1'-0"


SEE ENLAGED STAIR PLAN FOR DIMENSION
4"
1"
3" MIN.
2"
11"
CLOSE END OF STRINGER. USE PLATE TO MATCH STRINGER FLANGE. WELD TO WEB AND FLANGE. ALIGN END OF STRINGER W/WALL STRINGER IN DESCENDING FLIGHT.
MTL. CHANNEL OR BENT PLATE STRINGER
CONCRETE FILL
RISER AND MTL. SUBTREAD PAN. 14 GA. STL. SHT. EXTEND BOT. EDGE OF FIRST RISER 1" TO REST ON LANDING PAN
FASTEN TREADS AND RISERS TO STRINGERS USING CONT. WELDS OR ANG : LES WELDED TO EACH.
CLIP ANGLE. WELD TO EACH STRINGER AND FASTEN TO FLOOR USING 1/2" DIA. BOLTS W/LEAD EXPANSION SHIELDS.
THICKENED CONC. SLAB - SEE STRUCTURAL NOTES

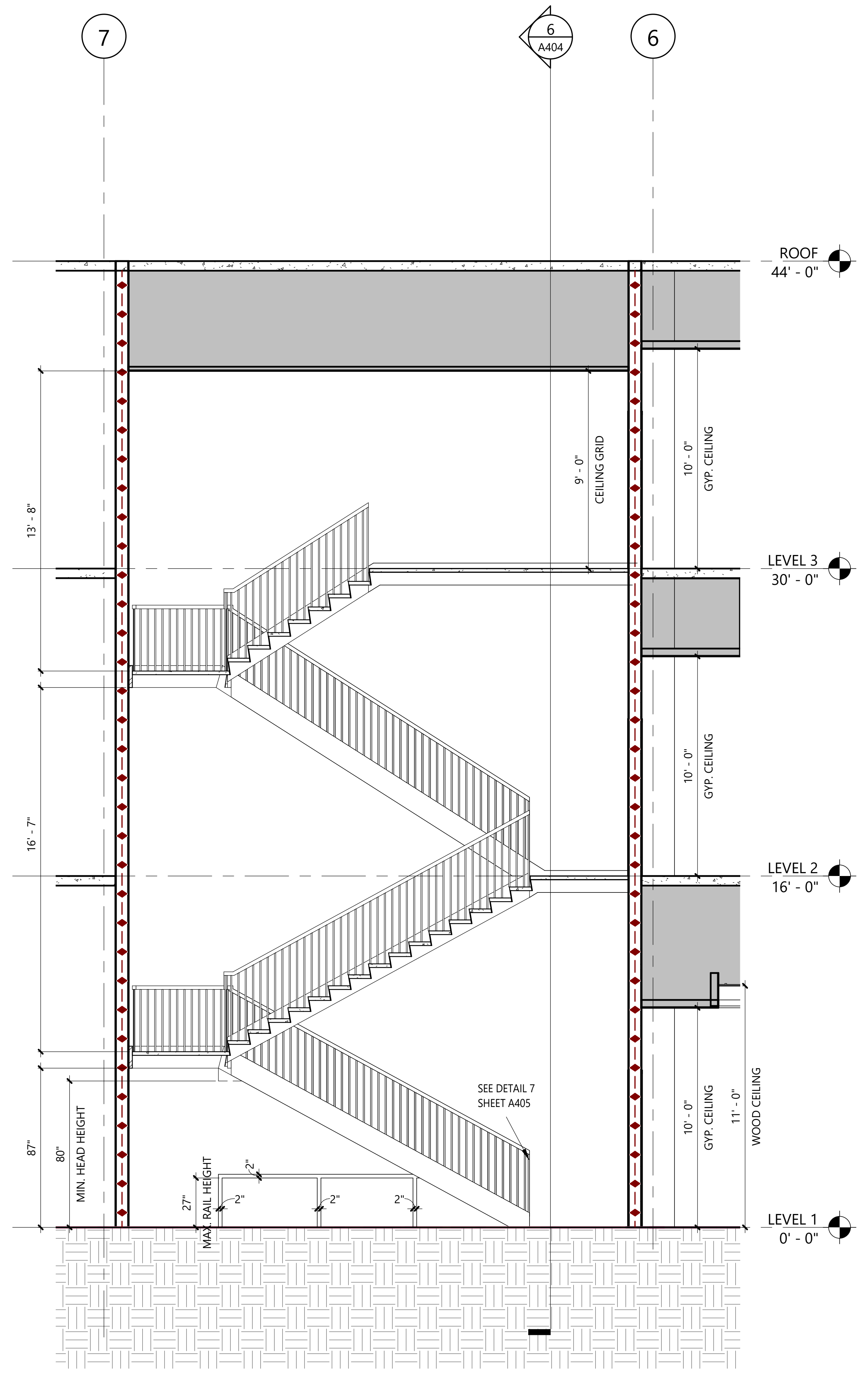
7 STAIR DETAIL - BASE LANDING
SCALE: 1 1/2" = 1'-0"


WALL RAIL. PIPE 1 1/2" NOM. DIA.
RETURN RAILING TO WALL
WALL BRACKET. LOCATE 6" FROM EACH END OF RAIL AND EQUALLY SPACED 8'-0" BETWEEN
1'-0" MIN.
12" MIN.
11" MIN.
LINE OF FIRST OR LAST NOSING IN STAIR FLIGHT
ELEVATION
1.5" CLR
2'-10" MIN. TO TREAD @ NOSING
RETURN RAILING TO WALL
WALL RAIL. PIPE 1 1/2" NOM. DIA
SCHED. PARTITION
MTL. SUPPORT BEHIND GYP. BD. @ HANDRAIL CONNECTIONS. SPAN BETWEEN STUDS CONTINUOUSLY.
WALL BRACKET LOCATED 6" FROM EACH END OF RAIL AND EQUALLY SPACED 8'-0" BETWEEN
NOTE: BRACKET MOUNTING ON BALUSTER ON INSIDE RAIL. SIMILAR
SECTION 'A'
PLAN
HANDRAIL DETAILS

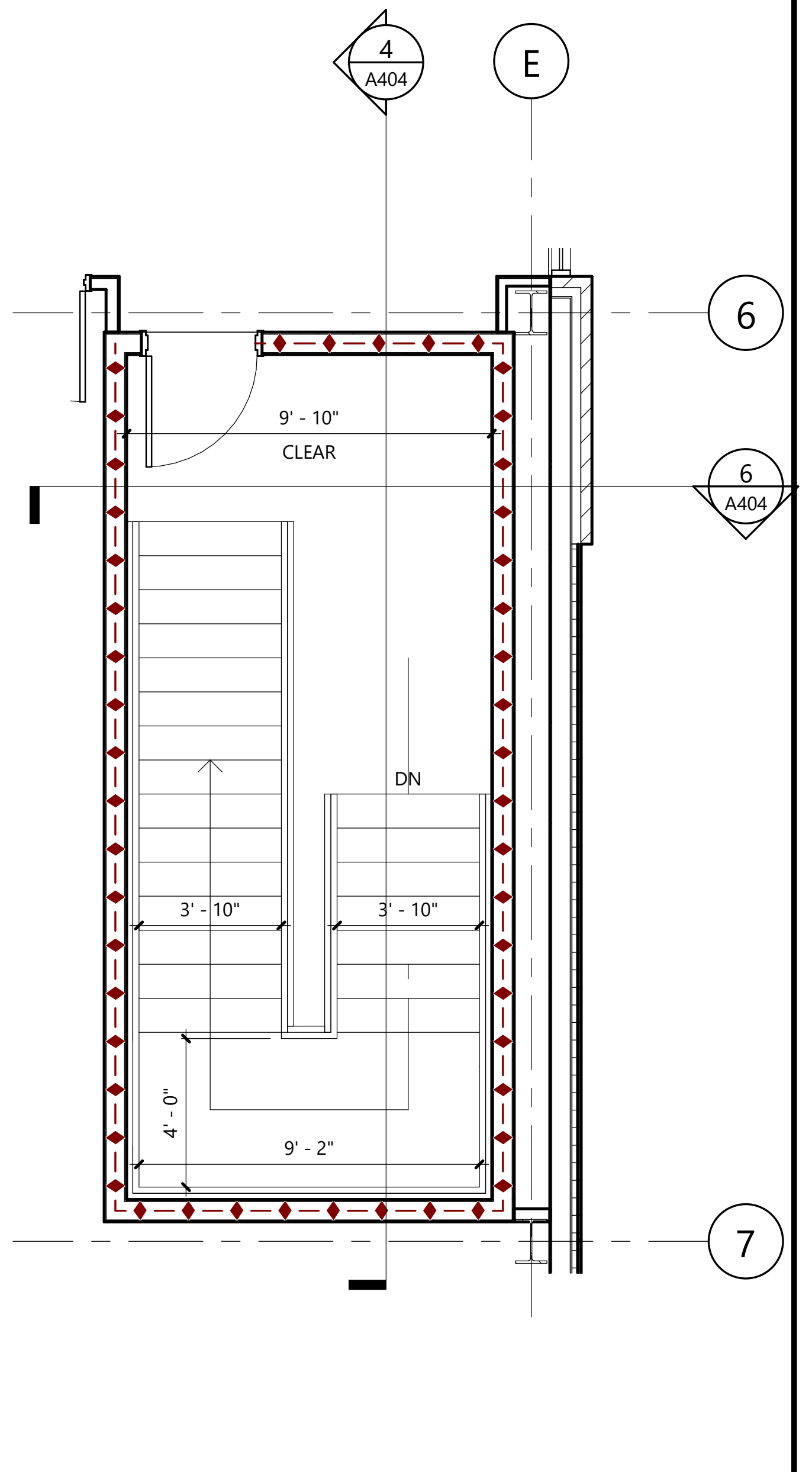
5 STAIR RAIL DETAIL
SCALE: 1 1/2" = 1'-0"



6 STAIR 1 CROSS SECTION 1
SCALE: 1/4" = 1'-0"



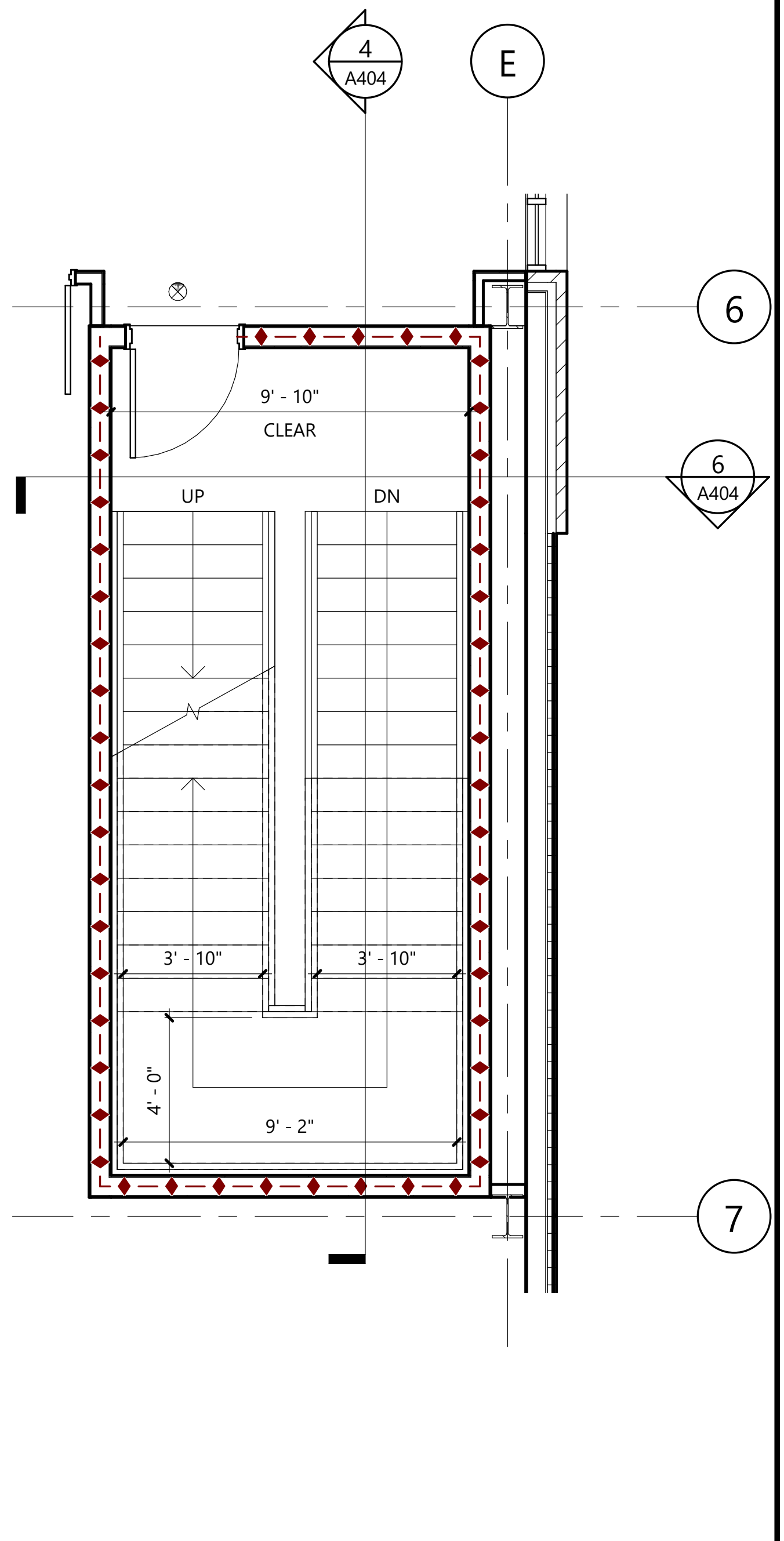
4 STAIR 1 LONG SECTION
SCALE: 1/4" = 1'-0"



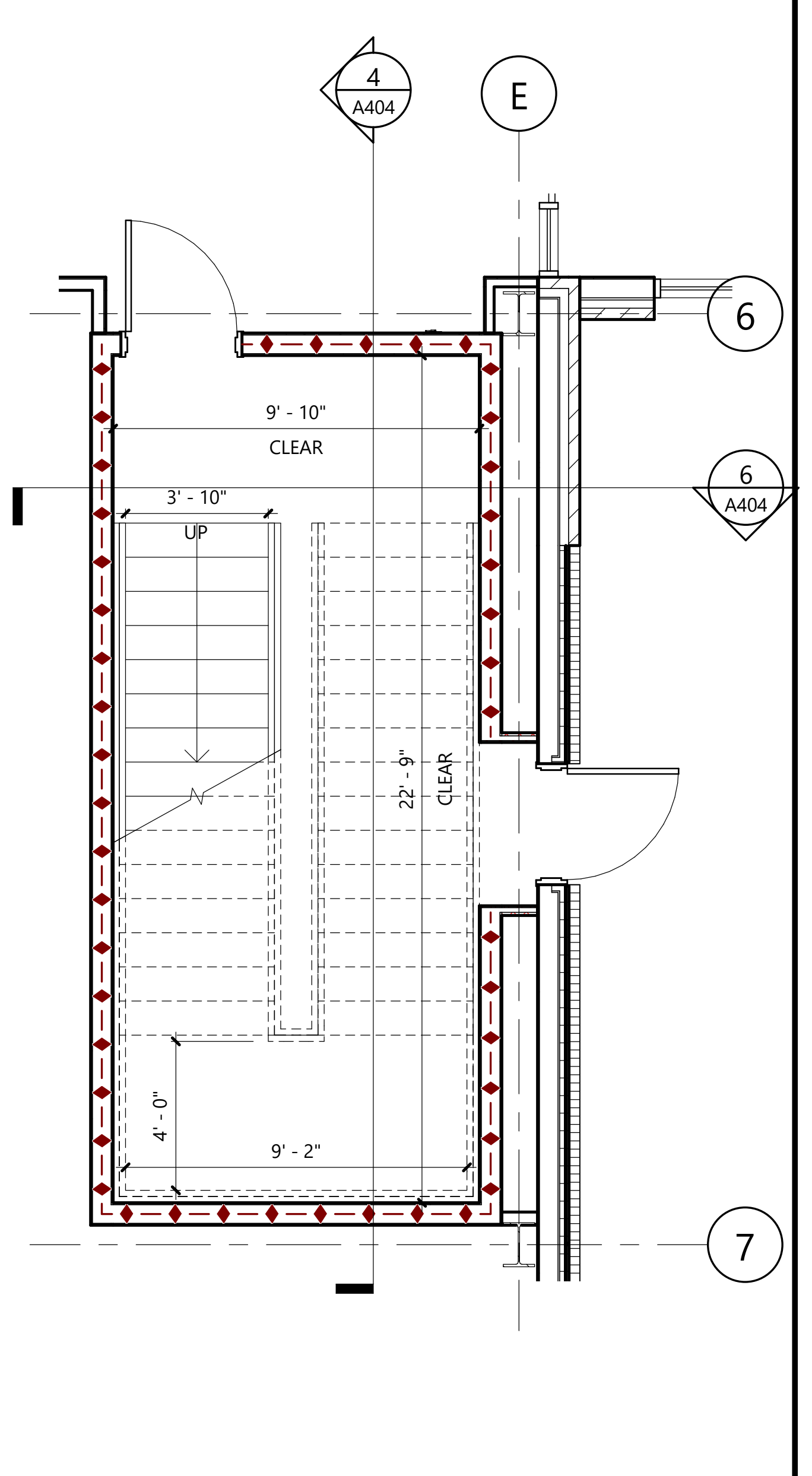
3 LEVEL 3 - STAIR 1 - ENLARGED NOTE PLAN
SCALE: 1/4" = 1'-0"

S—S—S	SMOKE PARTITION
♦—♦—♦	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
☐	NON-RATED INTERIOR PARTITION

PARTITION FIRE RATING LEGEND



2 LEVEL 2 - STAIR 1 - ENLARGED NOTE PLAN
SCALE: 1/4" = 1'-0"



1 LEVEL 1 - STAIR 1 - ENLARGED NOTE PLAN
SCALE: 1/4" = 1'-0"

0' 2' 4' 8'

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

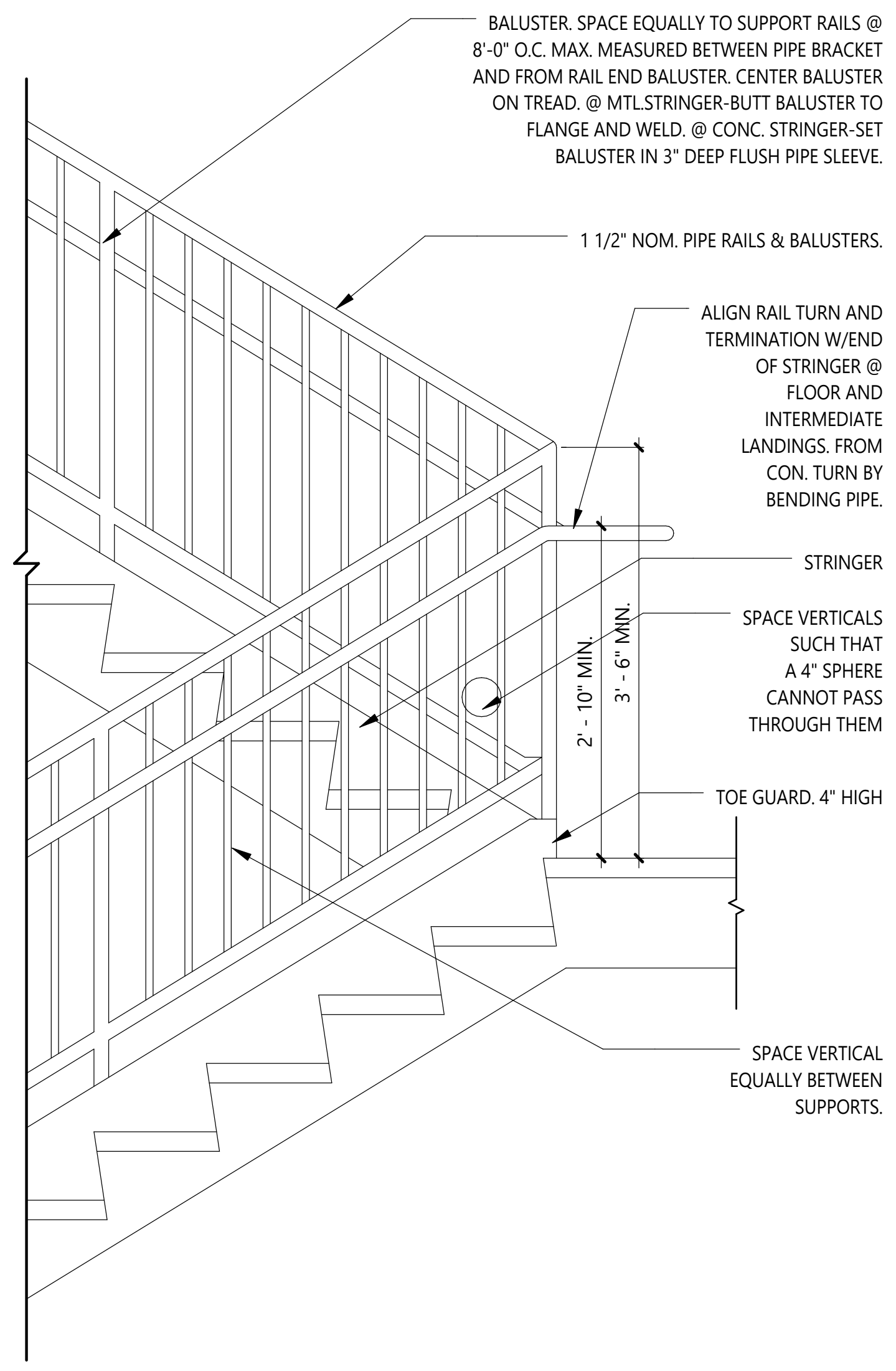
WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
ENLARGED STAIR 1 PLANS AND ELEVATIONS

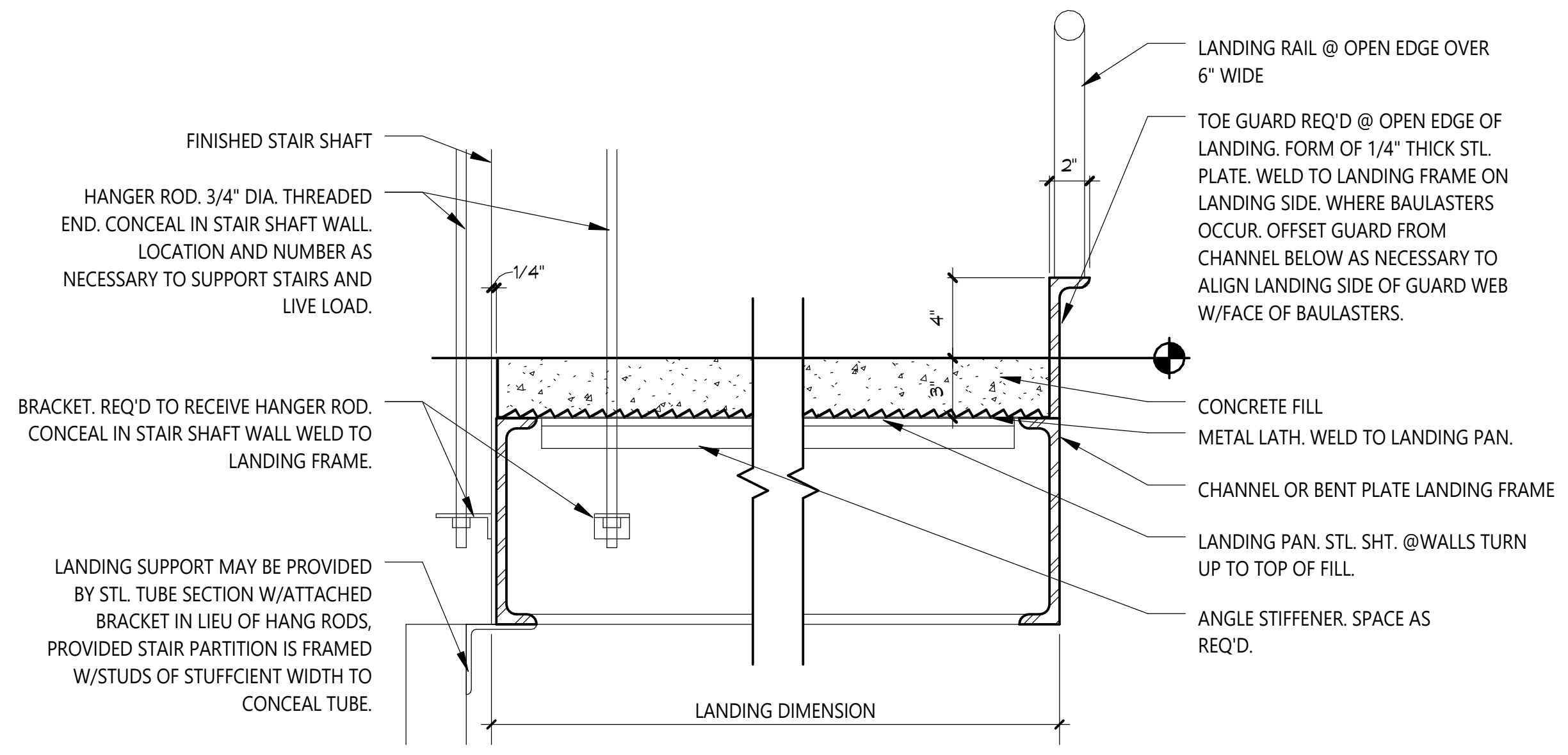
SHEET
A404

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
2/18/2019 6:01:02 PM


BALUSTER. SPACE EQUALLY TO SUPPORT RAILS @ 8'-0" O.C. MAX. MEASURED BETWEEN PIPE BRACKET AND FROM RAIL END BALUSTER. CENTER BALUSTER ON TREAD. @ MTL.STRINGER-BUTT BALUSTER TO FLANGE AND WELD. @ CONC. STRINGER-SET BALUSTER IN 3" DEEP FLUSH PIPE SLEEVE.
1 1/2" NOM. PIPE RAILS & BALUSTERS.
ALIGN RAIL TURN AND TERMINATION W/END OF STRINGER @ FLOOR AND INTERMEDIATE LANDINGS. FROM CON. TURN BY BENDING PIPE.
STRINGER
SPACE VERTICALS SUCH THAT A 4" SPHERE CANNOT PASS THROUGH THEM
2' - 10" MIN.
3' - 6" MIN.
TOE GUARD. 4" HIGH
SPACE VERTICAL EQUALLY BETWEEN SUPPORTS.

7 STAIR DETAIL - HAND RAIL/GAURD RAIL

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

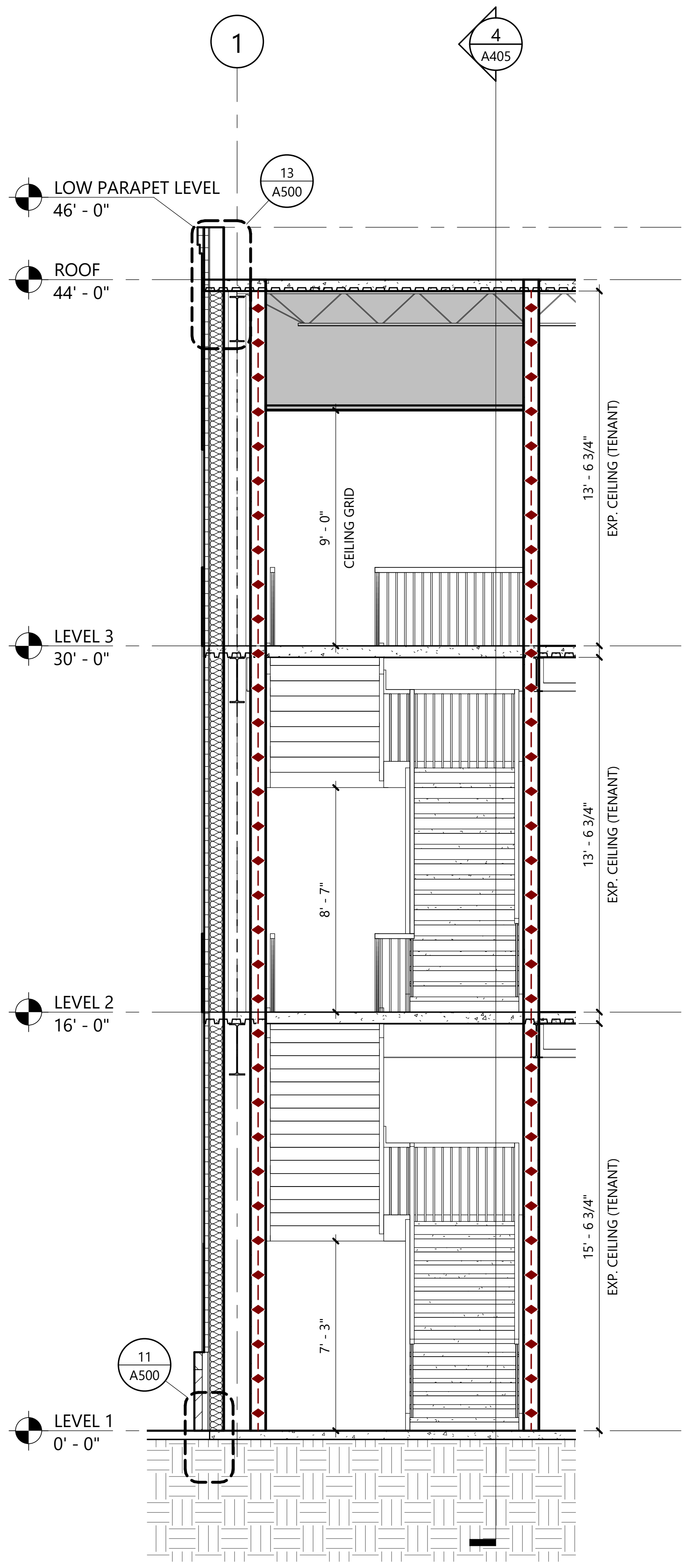

FINISHED STAIR SHAFT
HANGER ROD. 3/4" DIA. THREADED END. CONCEAL IN STAIR SHAFT WALL. LOCATION AND NUMBER AS NECESSARY TO SUPPORT STAIRS AND LIVE LOAD.
1/4"
BRACKET. REQ'D TO RECEIVE HANGER ROD. CONCEAL IN STAIR SHAFT WALL WELD TO LANDING FRAME.
LANDING SUPPORT MAY BE PROVIDED BY STL. TUBE SECTION W/ATTACHED BRACKET IN LIEU OF HANG RODS, PROVIDED STAIR PARTITION IS FRAMED W/STUDS OF STUFFCIENT WIDTH TO CONCEAL TUBE.
LANDING DIMENSION
LANDING RAIL @ OPEN EDGE OVER 6" WIDE
TOE GUARD REQ'D @ OPEN EDGE OF LANDING. FORM OF 1/4" THICK STL. PLATE. WELD TO LANDING FRAME ON LANDING SIDE. WHERE BAULASTERS OCCUR. OFFSET GUARD FROM CHANNEL BELOW AS NECESSARY TO ALIGN LANDING SIDE OF GUARD WEB W/FACE OF BAULASTERS.
2"
4"
3"
CONCRETE FILL
METAL LATH. WELD TO LANDING PAN.
CHANNEL OR BENT PLATE LANDING FRAME
LANDING PAN. STL. SHT. @WALLS TURN UP TO TOP OF FILL.
ANGLE STIFFENER. SPACE AS REQ'D.

5 STAIR DETAIL - SECTION AT LANDING

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

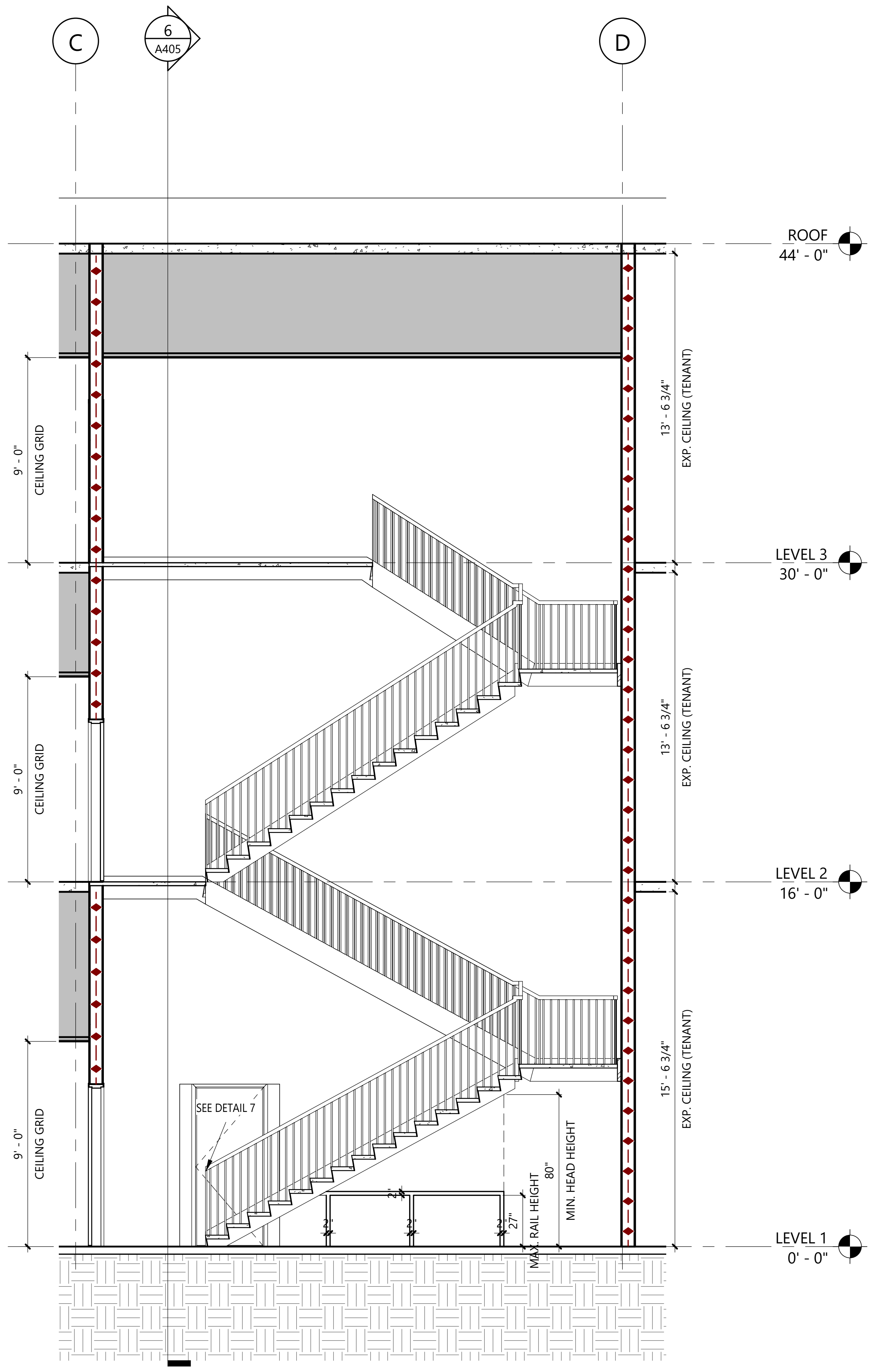
PARTITION FIRE RATING LEGEND

-S—S—S-	SMOKE PARTITION
-♦-♦-♦-♦-♦-	1-HR FIRE BARRIER
-♦S—♦S—♦S-	1-HR FIRE/SMOKE BARRIER
-♦♦—♦♦—♦♦-	2-HR FIRE BARRIER
-♦♦S—♦♦S—♦♦S-	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION



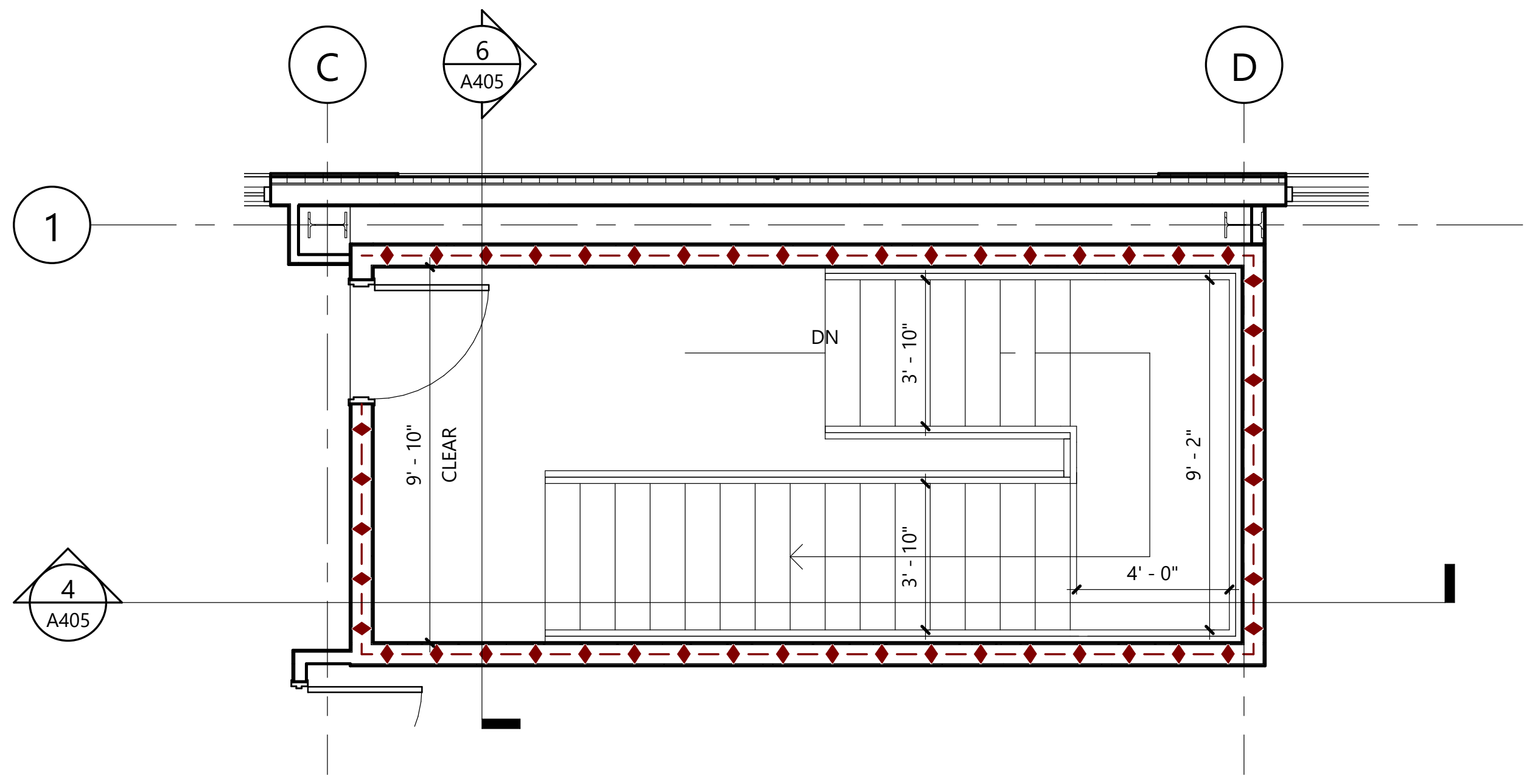
6 STAIR 2 CROSS SECTION 1

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



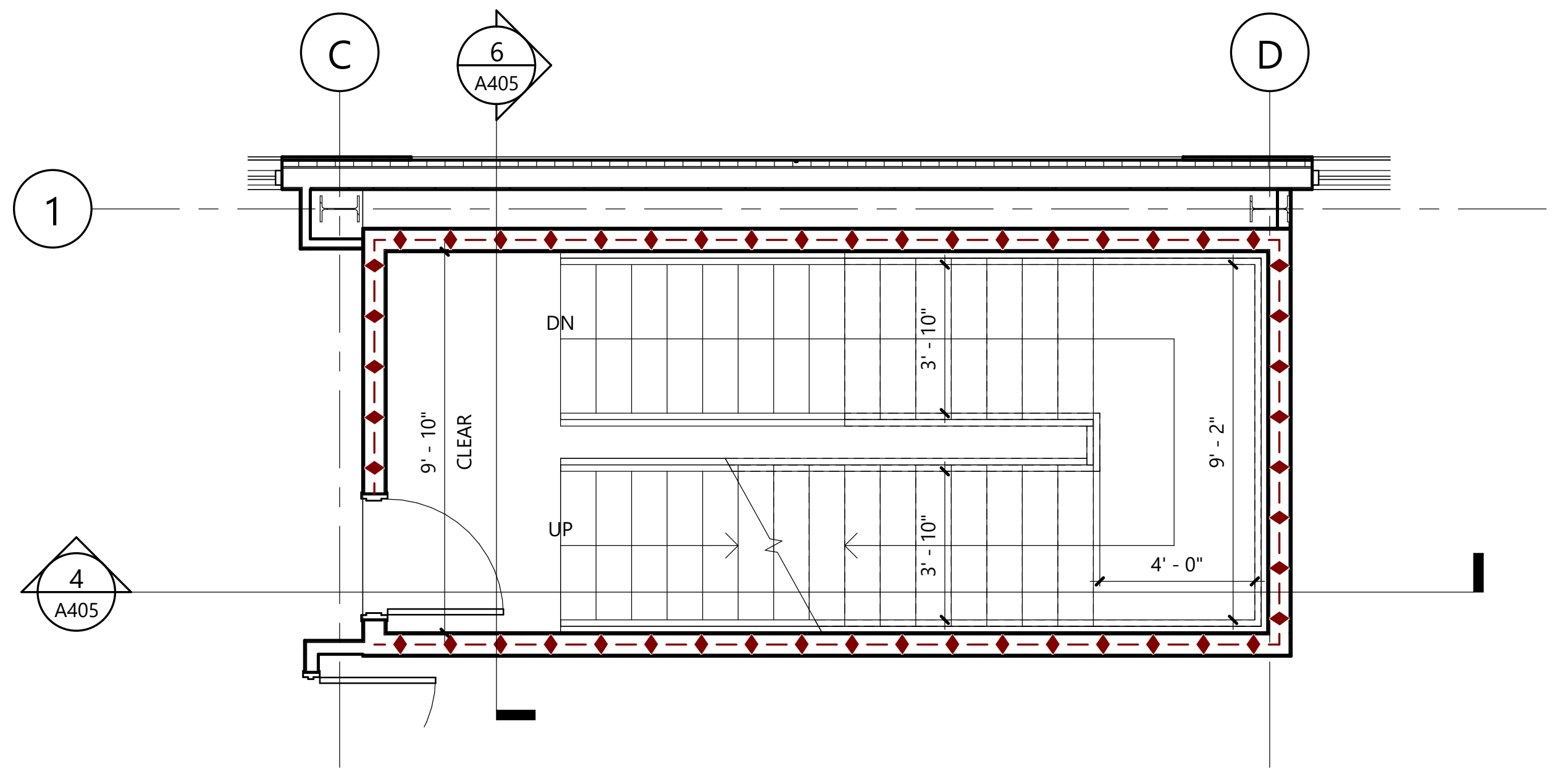
4 STAIR 2 LONG SECTION

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



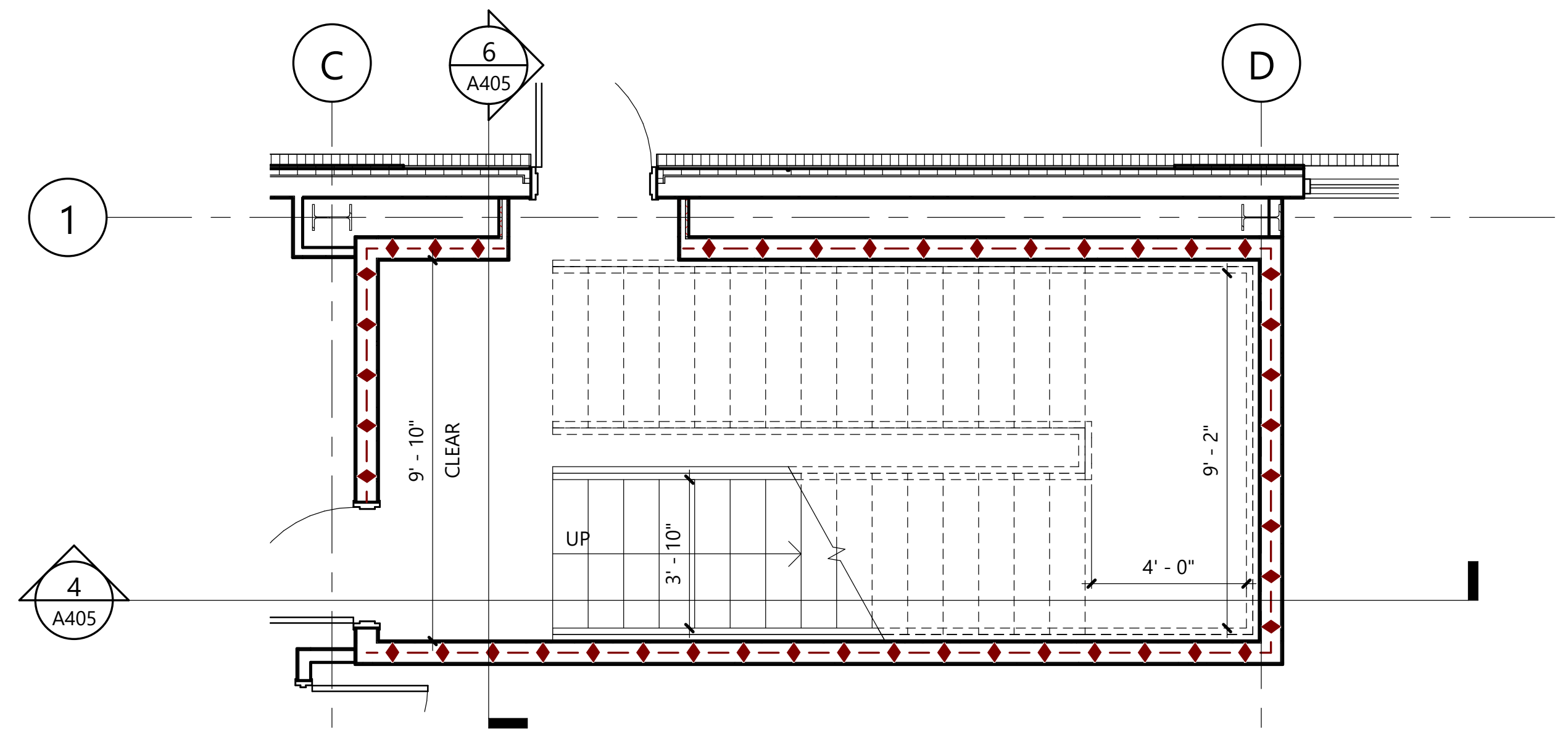
3 LEVEL 3 - STAIR 2 - ENLARGED NOTE PLAN

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



2 LEVEL 2 - STAIR 2 - ENLARGED NOTE PLAN

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



1 LEVEL 1 - STAIR 2 - ENLARGED NOTE PLAN

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

0' 2' 4' 8'

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
THOMAS ALAN DOOLEY
A-7733
REGISTERED ARCHITECT
5-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19
△
△
△

TITLE
ENLARGED STAIR 2
PLANS AND
ELEVATIONS

SHEET
A405

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2/18/2019 6:01:06 PM

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2/18/2019 6:01:08 PM
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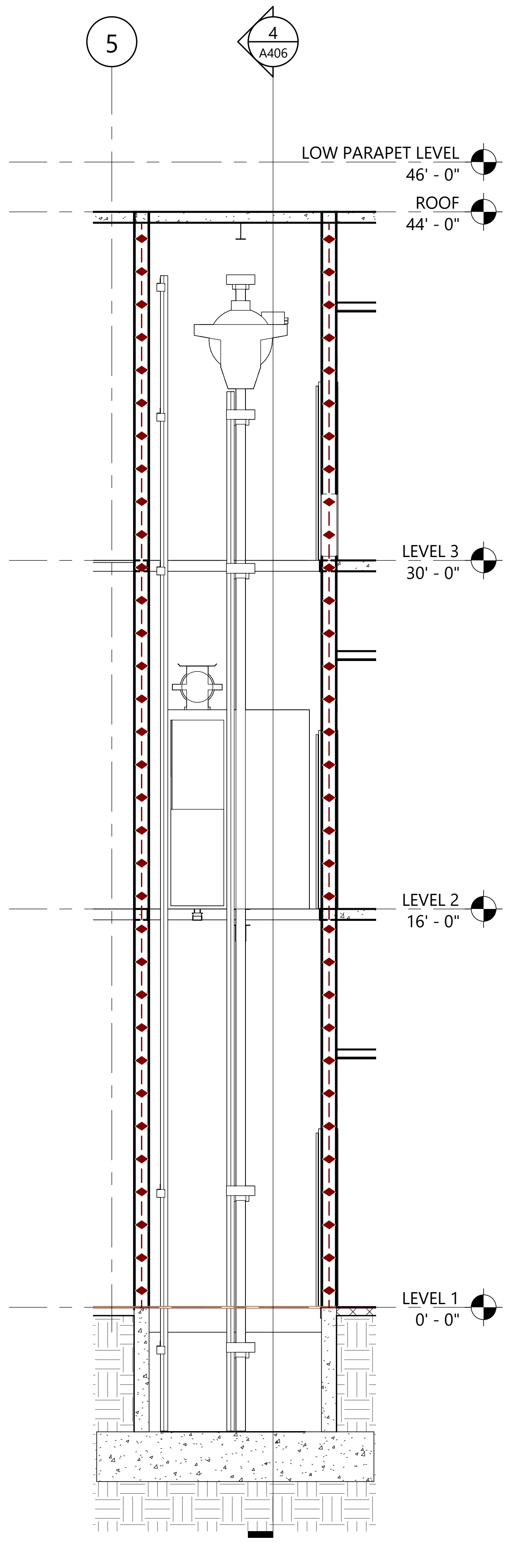
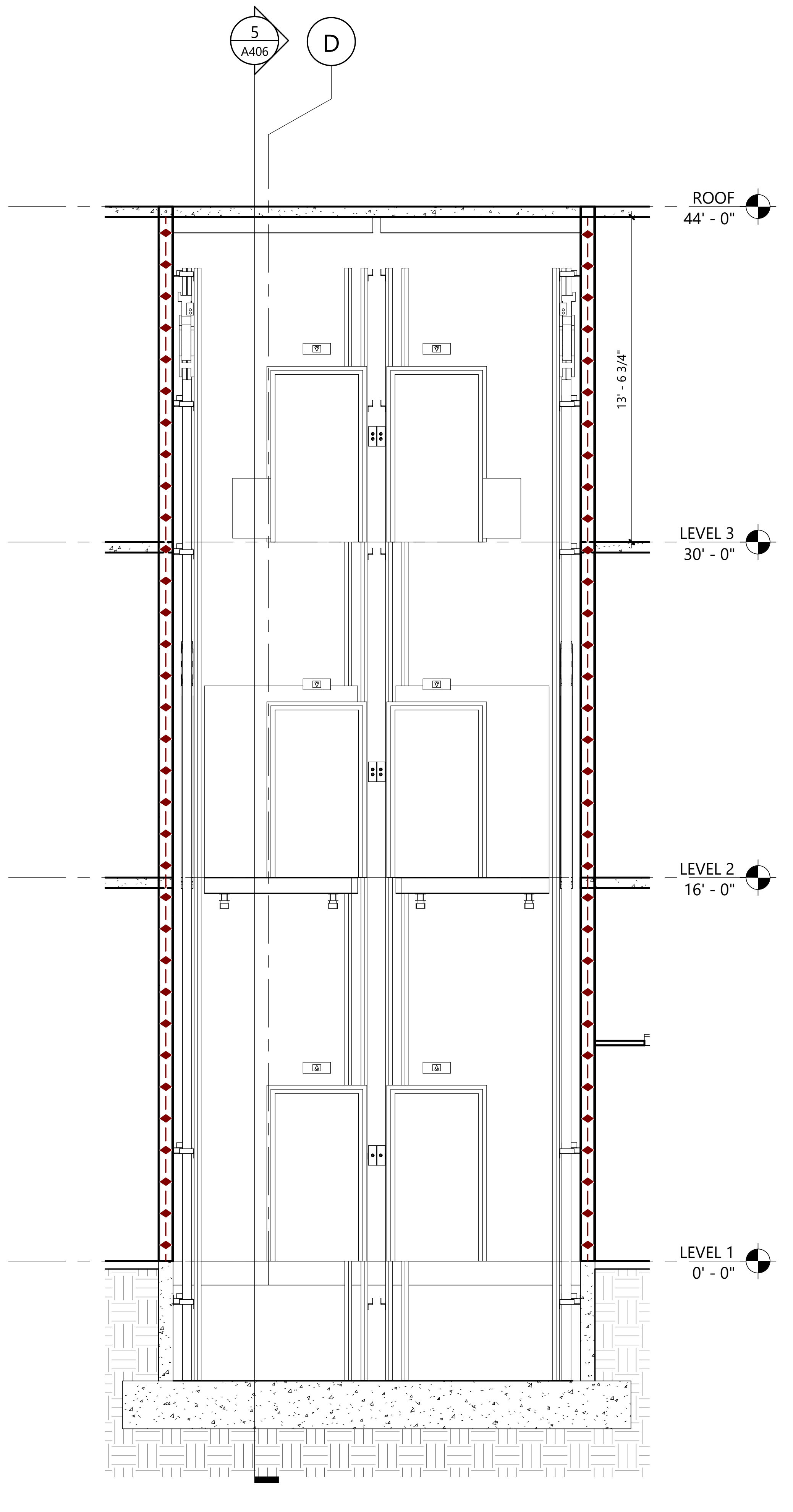
PARTITION FIRE RATING LEGEND

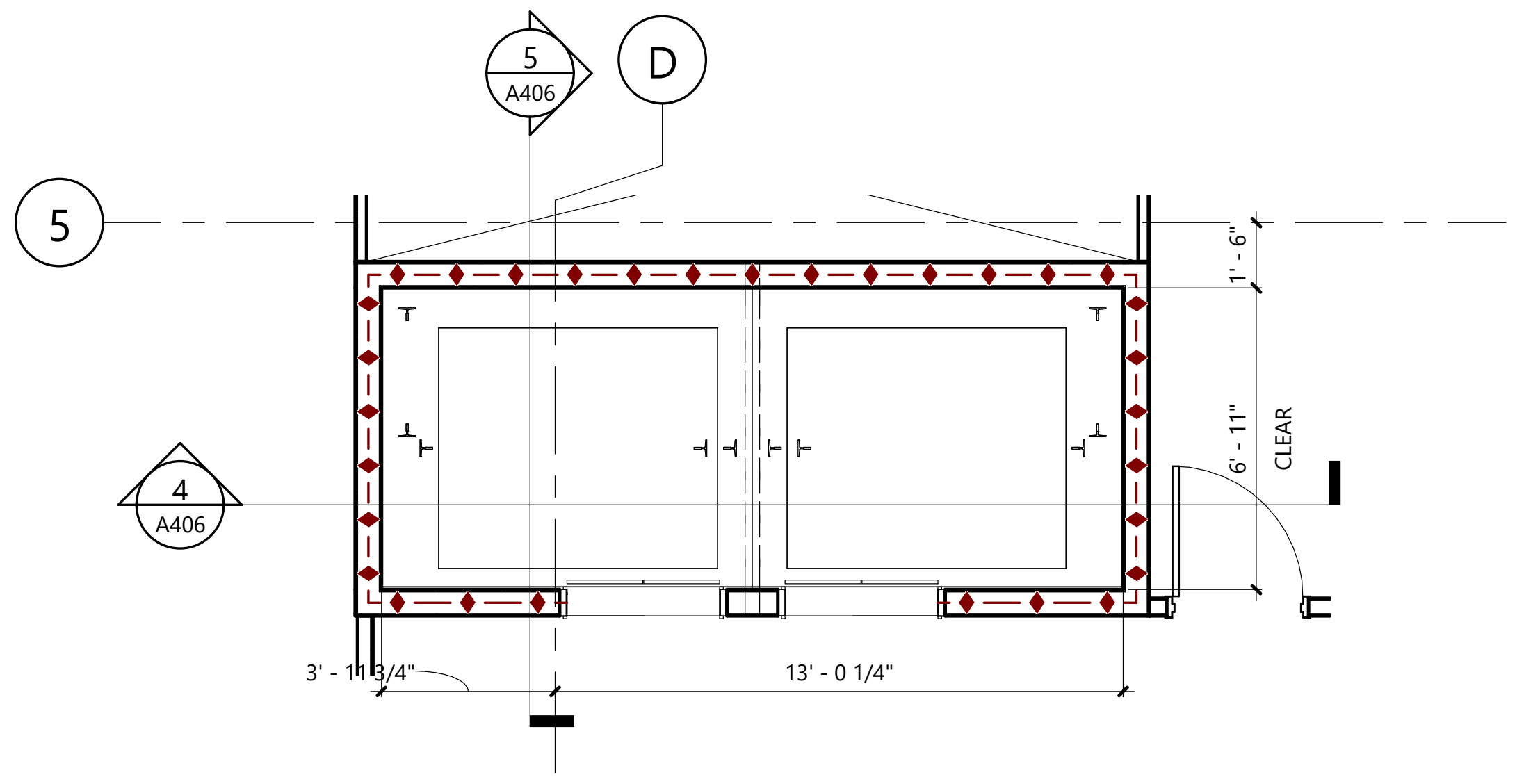
- SMOKE PARTITION
- 1-HR FIRE BARRIER
- 1-HR FIRE/SMOKE BARRIER
- 2-HR FIRE BARRIER
- 2-HR FIRE/SMOKE BARRIER
- NON-RATED INTERIOR PARTITION



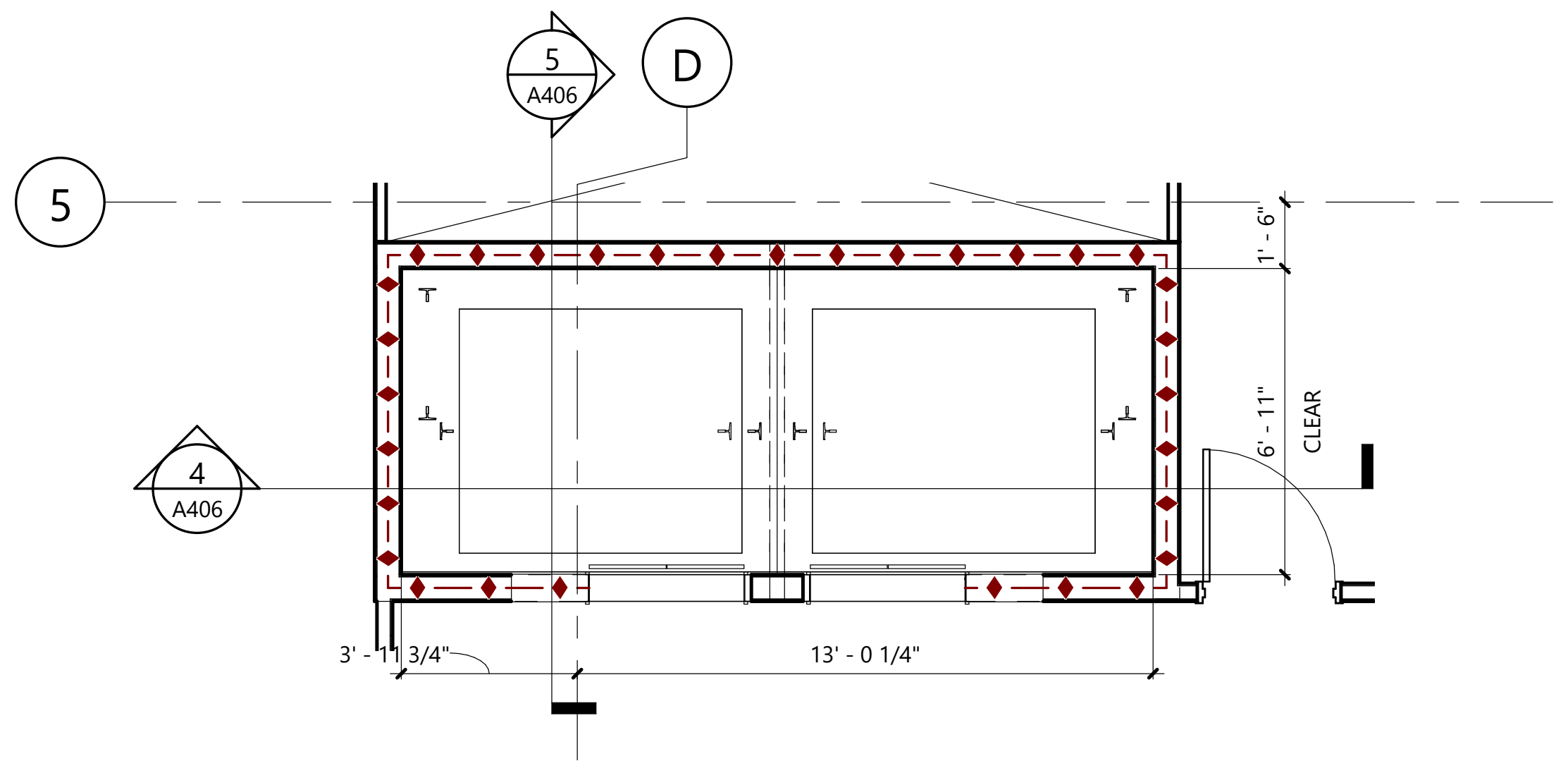
5 ELEVATOR CROSS SECTION 1
SCALE: 1/4" = 1'-0"



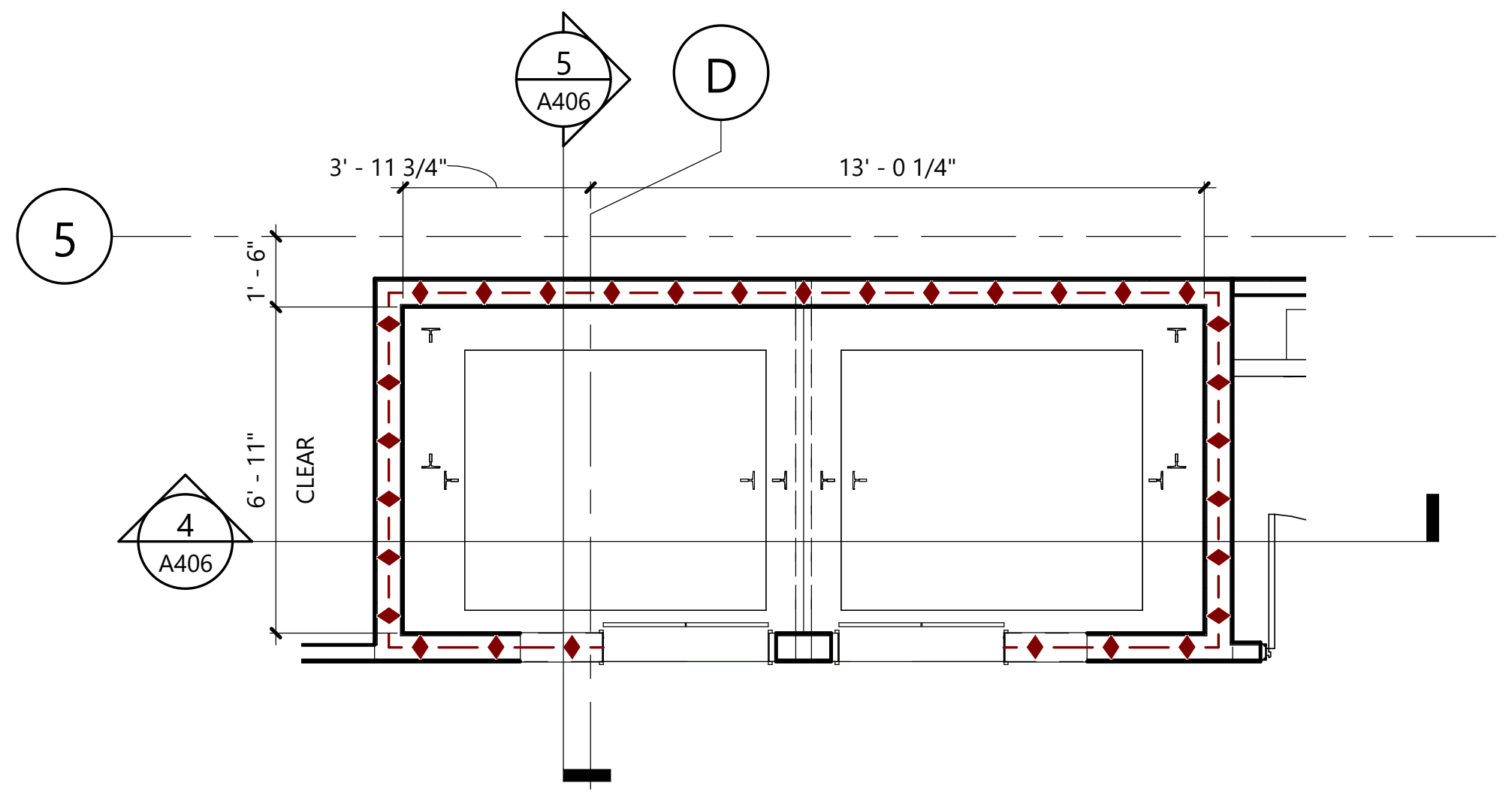
4 ELEVATOR LONG SECTION 1
SCALE: 1/4" = 1'-0"



3 LEVEL 3 - ELEV 1 AND 2 - ENLARGED NOTE PLAN
SCALE: 1/4" = 1'-0"



2 LEVEL 2 - ELEV 1 AND 2 - ENLARGED NOTE PLAN
SCALE: 1/4" = 1'-0"



1 LEVEL 1 - ELEV 1 AND 2 - ENLARGED NOTE PLAN
SCALE: 1/4" = 1'-0"

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PROJECT #
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LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

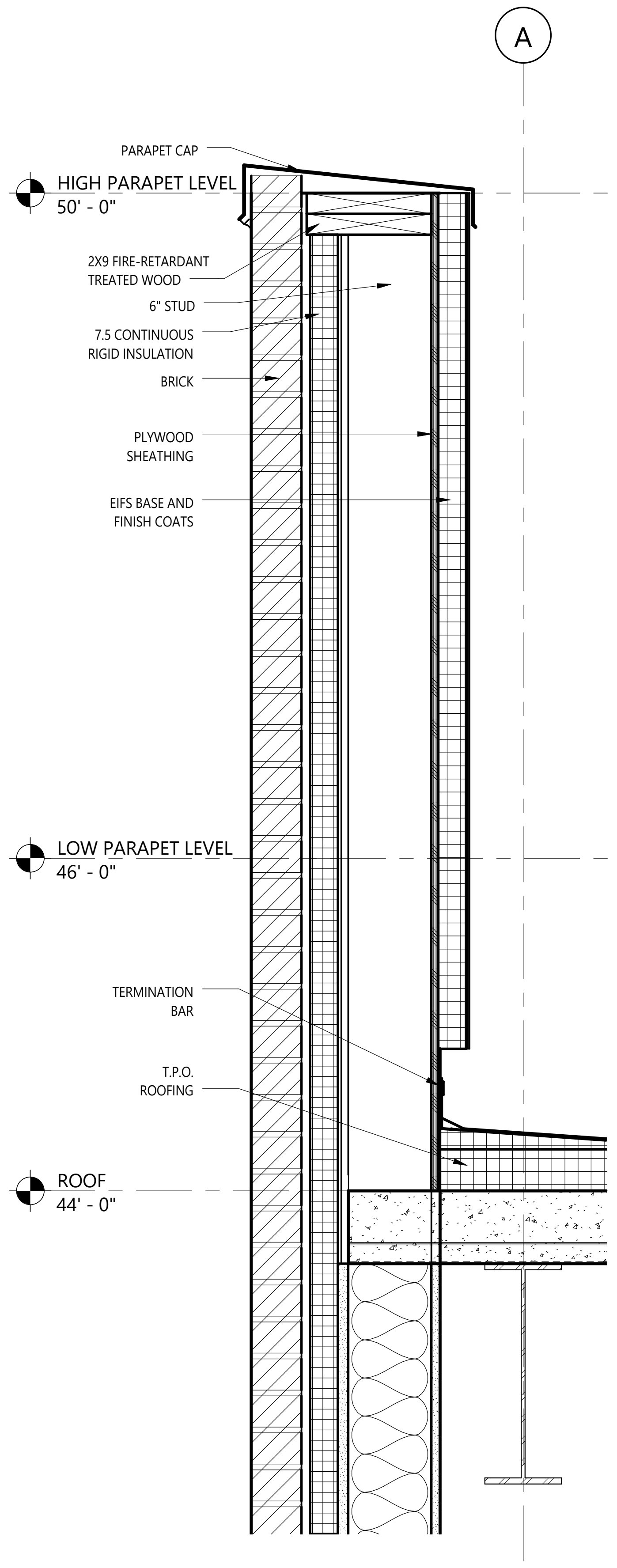
THOMAS ALAN DOOLEY
A-7733
15-19

WILLIAM E. HEREFORD III

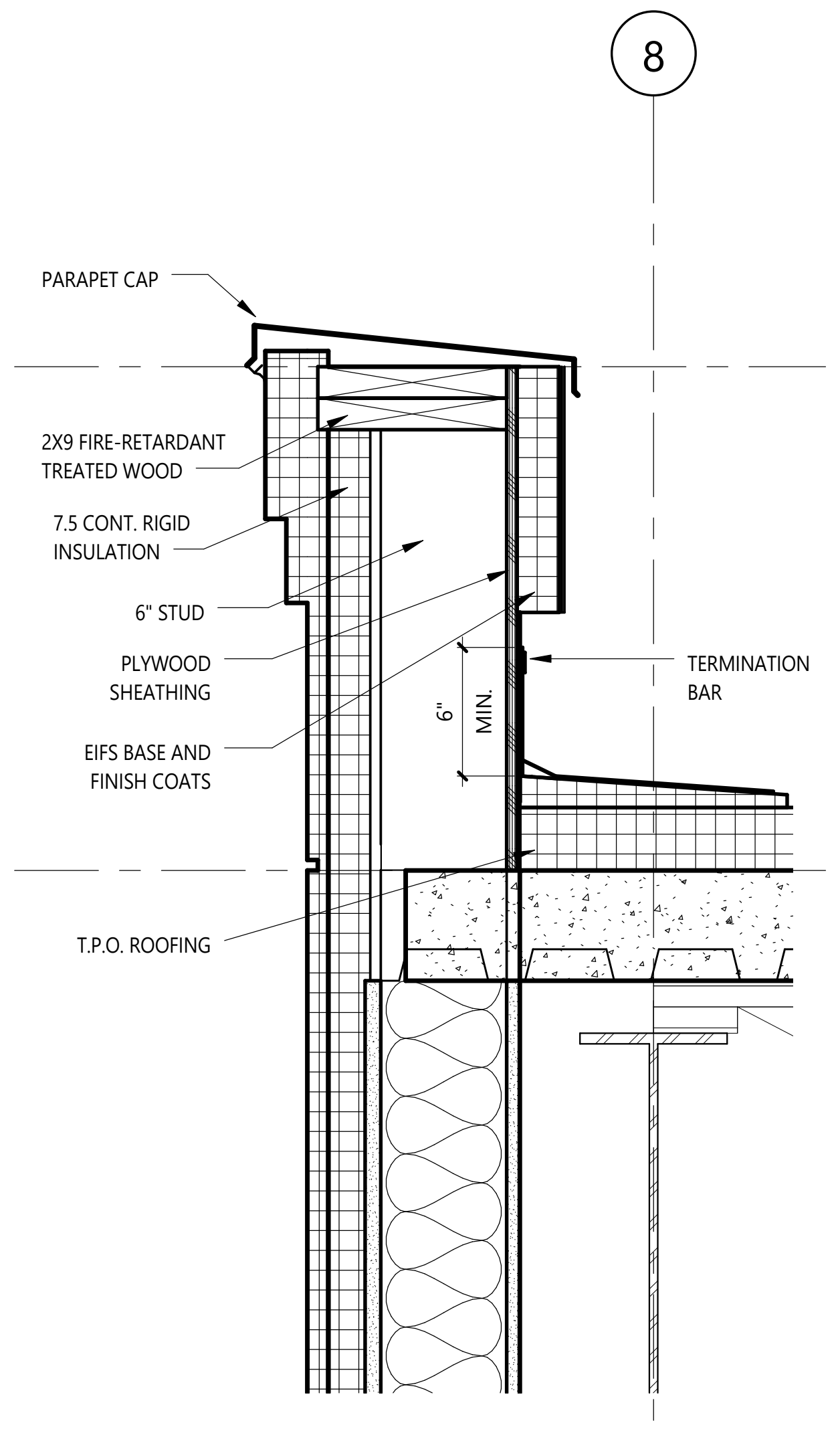
DATES OF ISSUANCE
02/15/19
△
△
△

TITLE
ENLARGED ELEVATOR PLANS AND ELEVATIONS

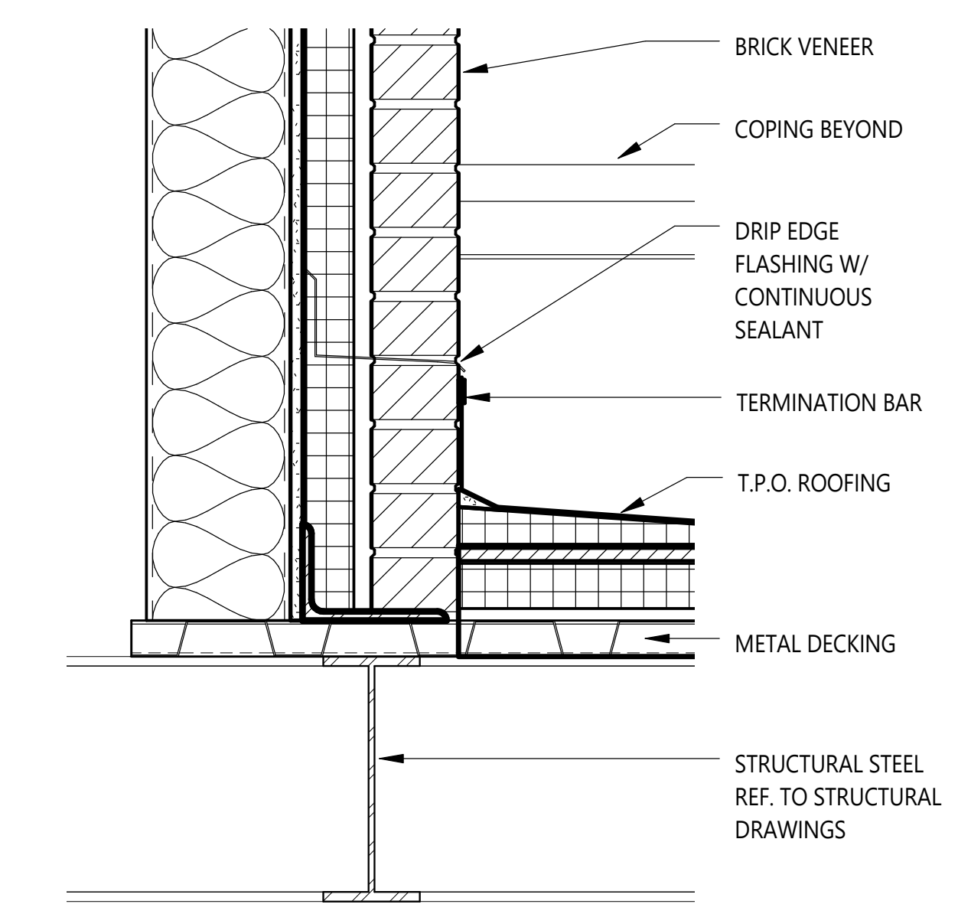
SHEET
A406



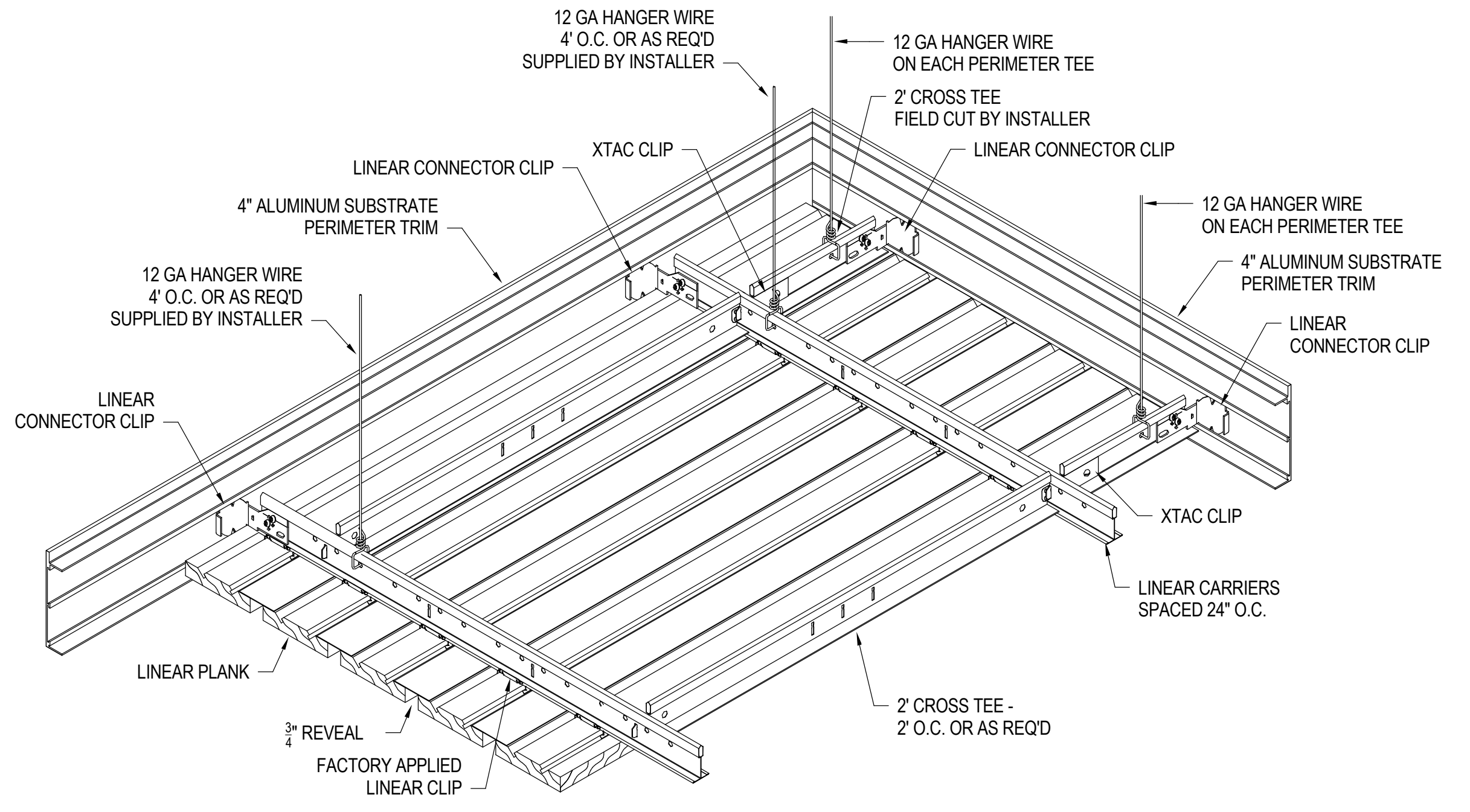
14 HIGH PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"


8
PARAPET CAP
2X9 FIRE-RETARDANT TREATED WOOD
7.5 CONT. RIGID INSULATION
6" STUD
PLYWOOD SHEATHING
EIFS BASE AND FINISH COATS
6" MIN.
TERMINATION BAR
T.P.O. ROOFING

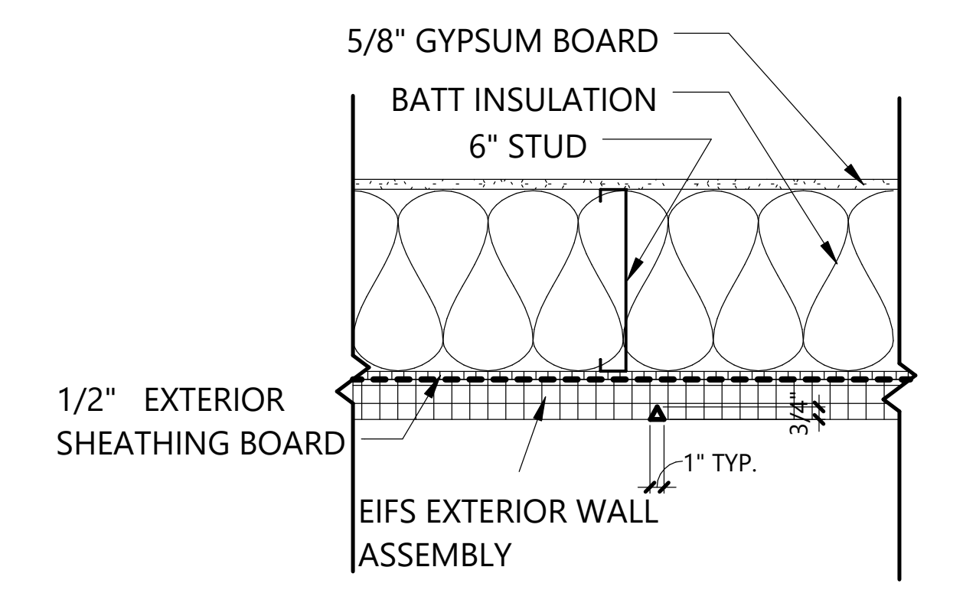
13 LOW PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"


BRICK VENEER
COPING BEYOND
DRIP EDGE FLASHING W/ CONTINUOUS SEALANT
TERMINATION BAR
T.P.O. ROOFING
METAL DECKING
STRUCTURAL STEEL REF. TO STRUCTURAL DRAWINGS

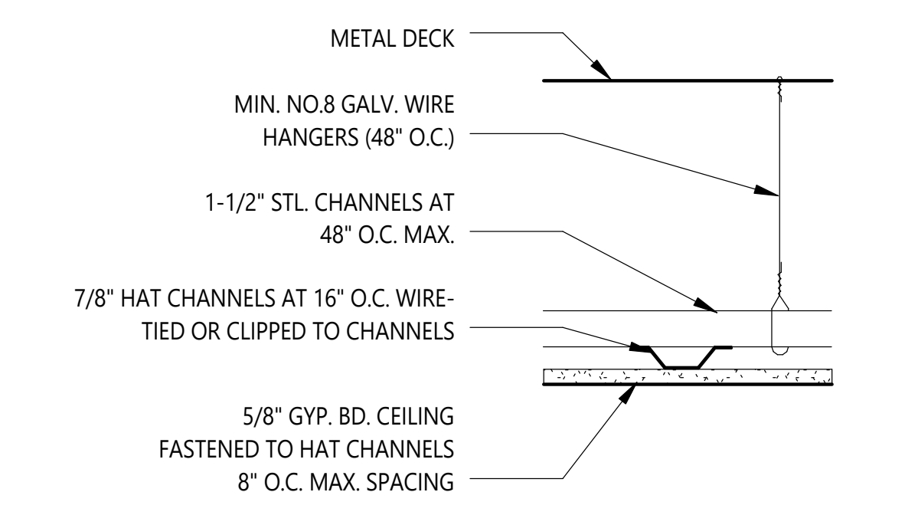
16 ROOFING DETAIL AT VESTIBULE
SCALE: 1 1/2" = 1'-0"


12 GA HANGER WIRE 4' O.C. OR AS REQ'D SUPPLIED BY INSTALLER
12 GA HANGER WIRE ON EACH PERIMETER TEE
2' CROSS TEE FIELD CUT BY INSTALLER
XTAC CLIP
LINEAR CONNECTOR CLIP
LINEAR CONNECTOR CLIP
4" ALUMINUM SUBSTRATE PERIMETER TRIM
12 GA HANGER WIRE ON EACH PERIMETER TEE
4" ALUMINUM SUBSTRATE PERIMETER TRIM
12 GA HANGER WIRE 4' O.C. OR AS REQ'D SUPPLIED BY INSTALLER
LINEAR CONNECTOR CLIP
LINEAR CONNECTOR CLIP
XTAC CLIP
LINEAR CARRIERS SPACED 24" O.C.
LINEAR PLANK
3/4" REVEAL
FACTORY APPLIED LINEAR CLIP
2' CROSS TEE - 2' O.C. OR AS REQ'D

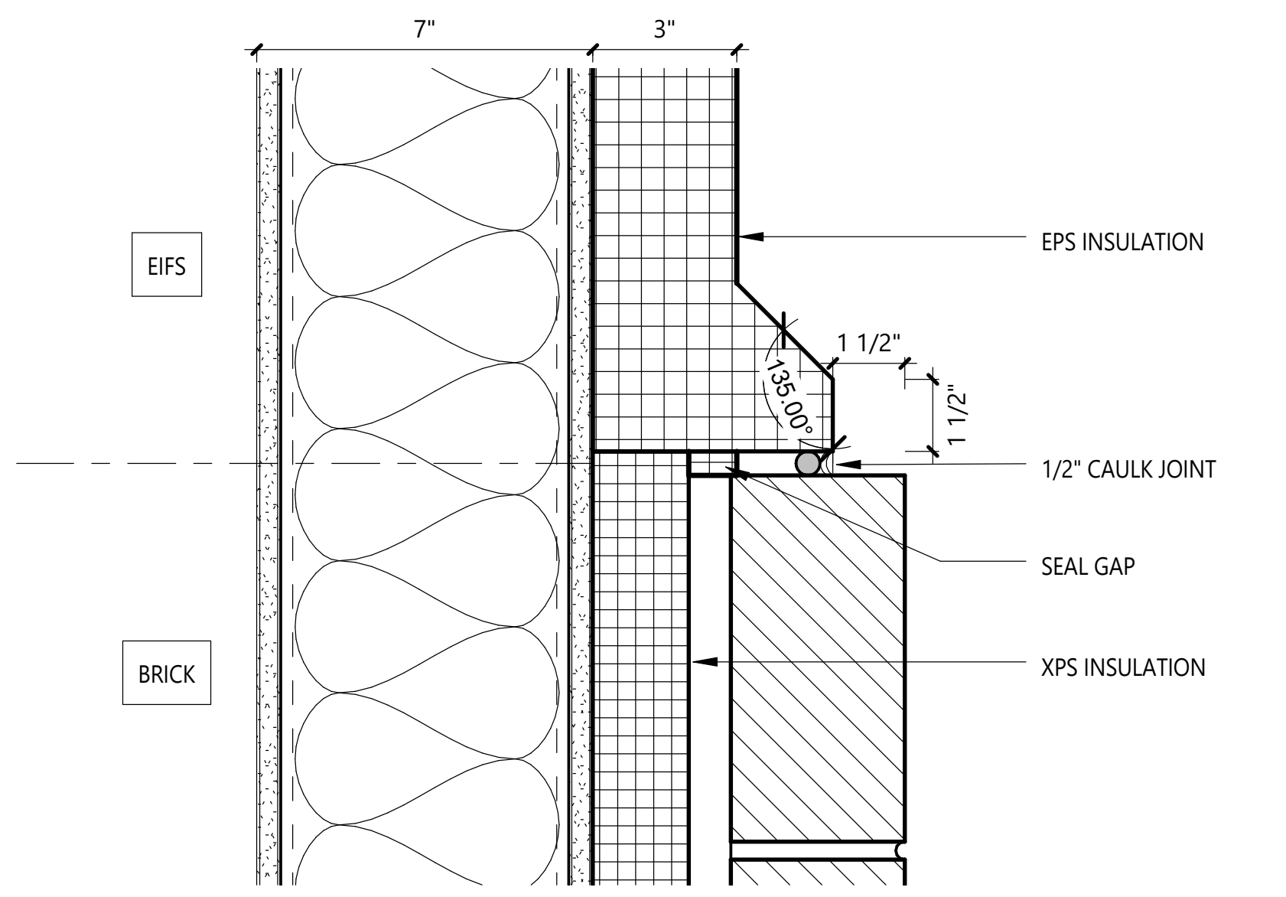
10 WOODWORKS VENEERED PANEL ISO
SCALE: 1 1/2" = 1'-0"



6 EXTERIOR DETAIL - EIFS Reveal
SCALE: 1" = 1'-0"

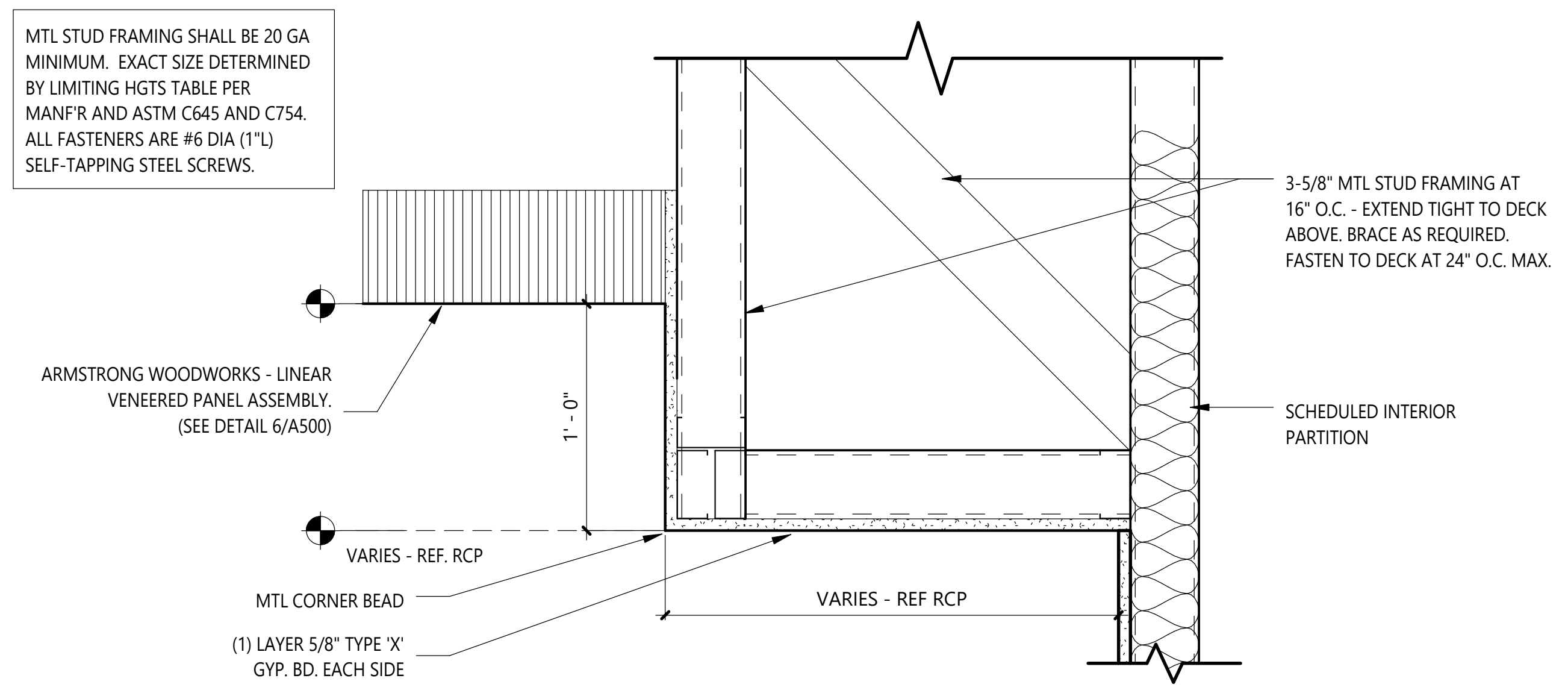

METAL DECK
MIN. NO.8 GALV. WIRE HANGERS (48" O.C.)
1-1/2" STL. CHANNELS AT 48" O.C. MAX.
7/8" HAT CHANNELS AT 16" O.C. WIRE-TIED OR CLIPPED TO CHANNELS
5/8" GYP. BD. CEILING FASTENED TO HAT CHANNELS 8" O.C. MAX. SPACING

5 GYPSUM CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



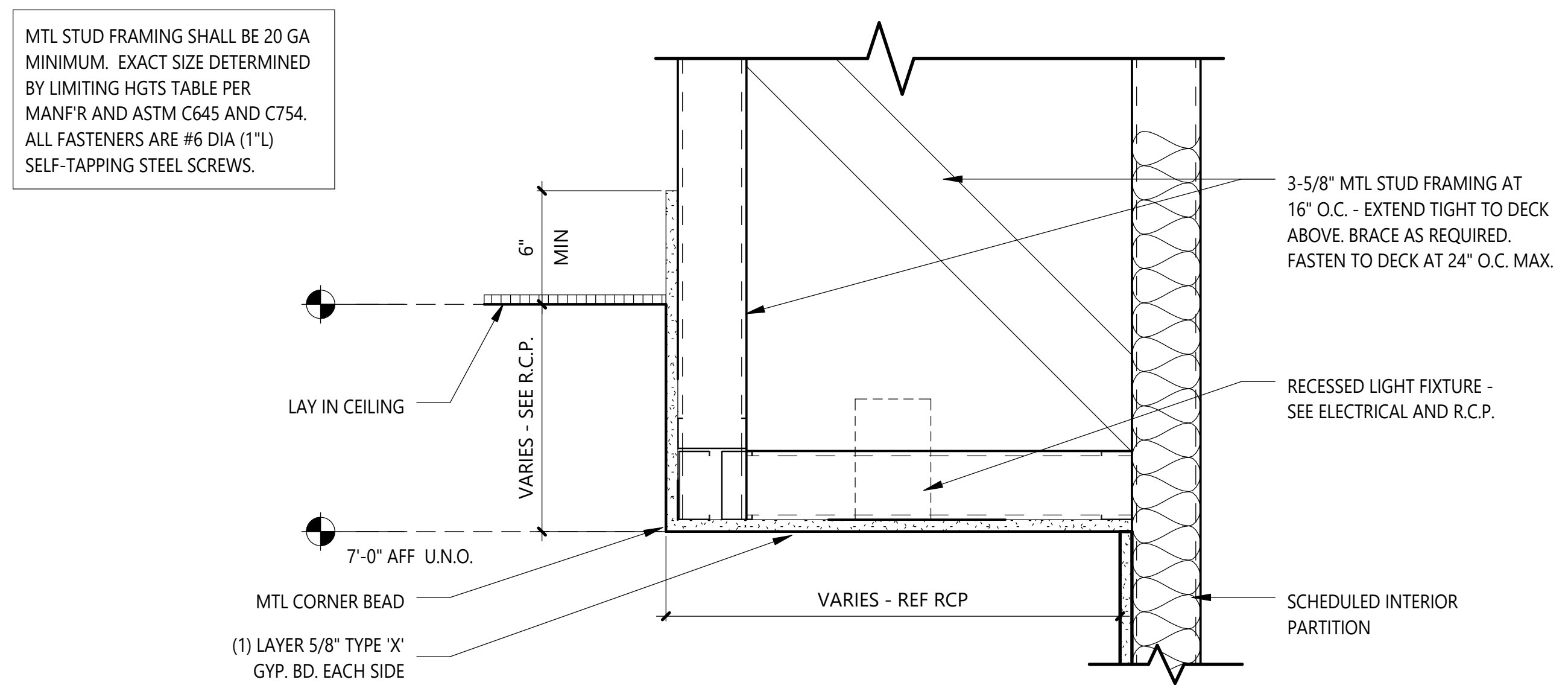
4 BRICK TO EIFS TRANSITION
SCALE: 3" = 1'-0"

MTL STUD FRAMING SHALL BE 20 GA MINIMUM. EXACT SIZE DETERMINED BY LIMITING HGTS TABLE PER MANF'R AND ASTM C645 AND C754. ALL FASTENERS ARE #6 DIA (1"L) SELF-TAPPING STEEL SCREWS.

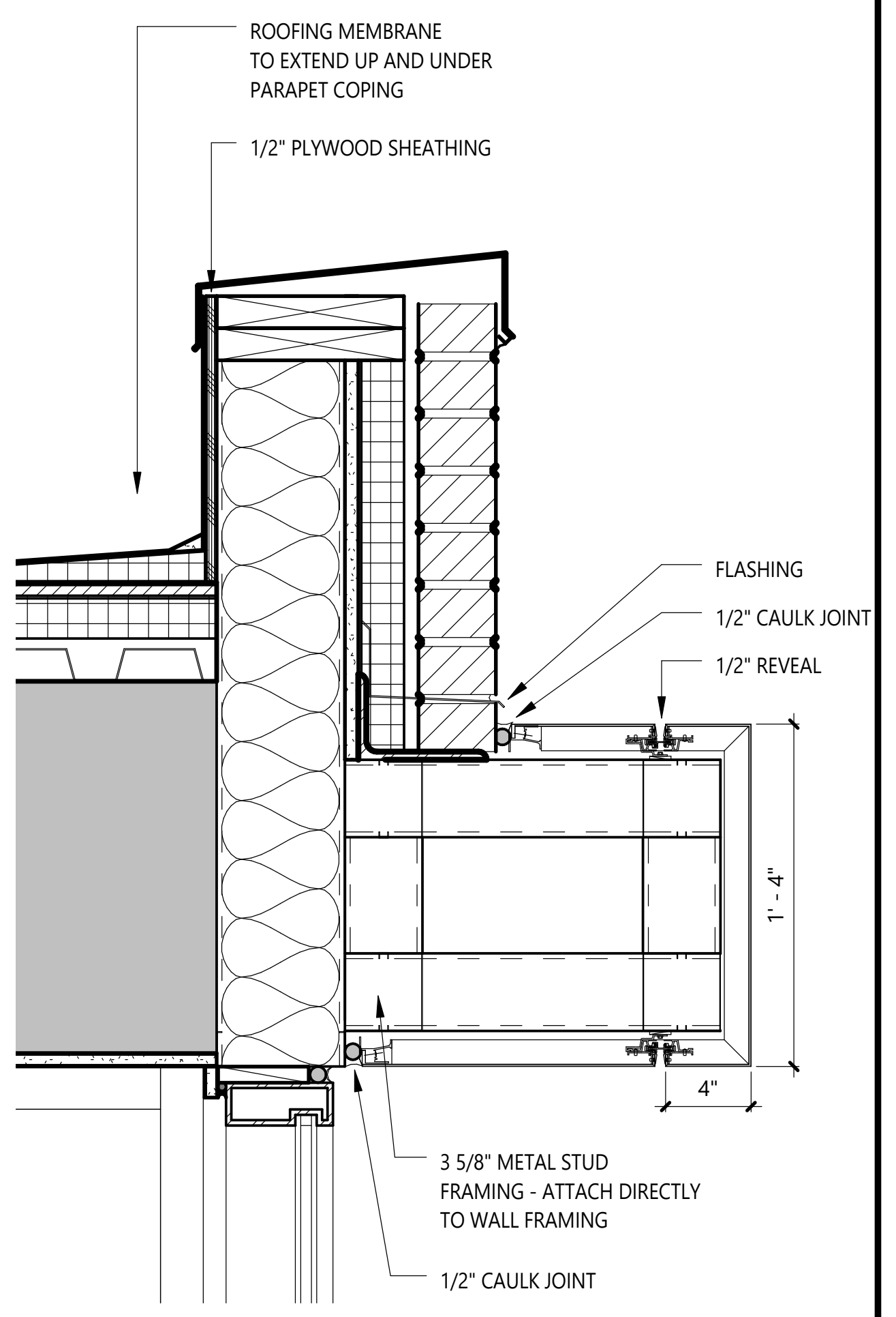

3-5/8" MTL STUD FRAMING AT 16" O.C. - EXTEND TIGHT TO DECK ABOVE. BRACE AS REQUIRED. FASTEN TO DECK AT 24" O.C. MAX.
ARMSTRONG WOODWORKS - LINEAR VENEERED PANEL ASSEMBLY. (SEE DETAIL 6/A500)
1' - 0"
SCHEDULED INTERIOR PARTITION
VARIES - REF. RCP
MTL CORNER BEAD
VARIES - REF RCP
(1) LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE

9 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"

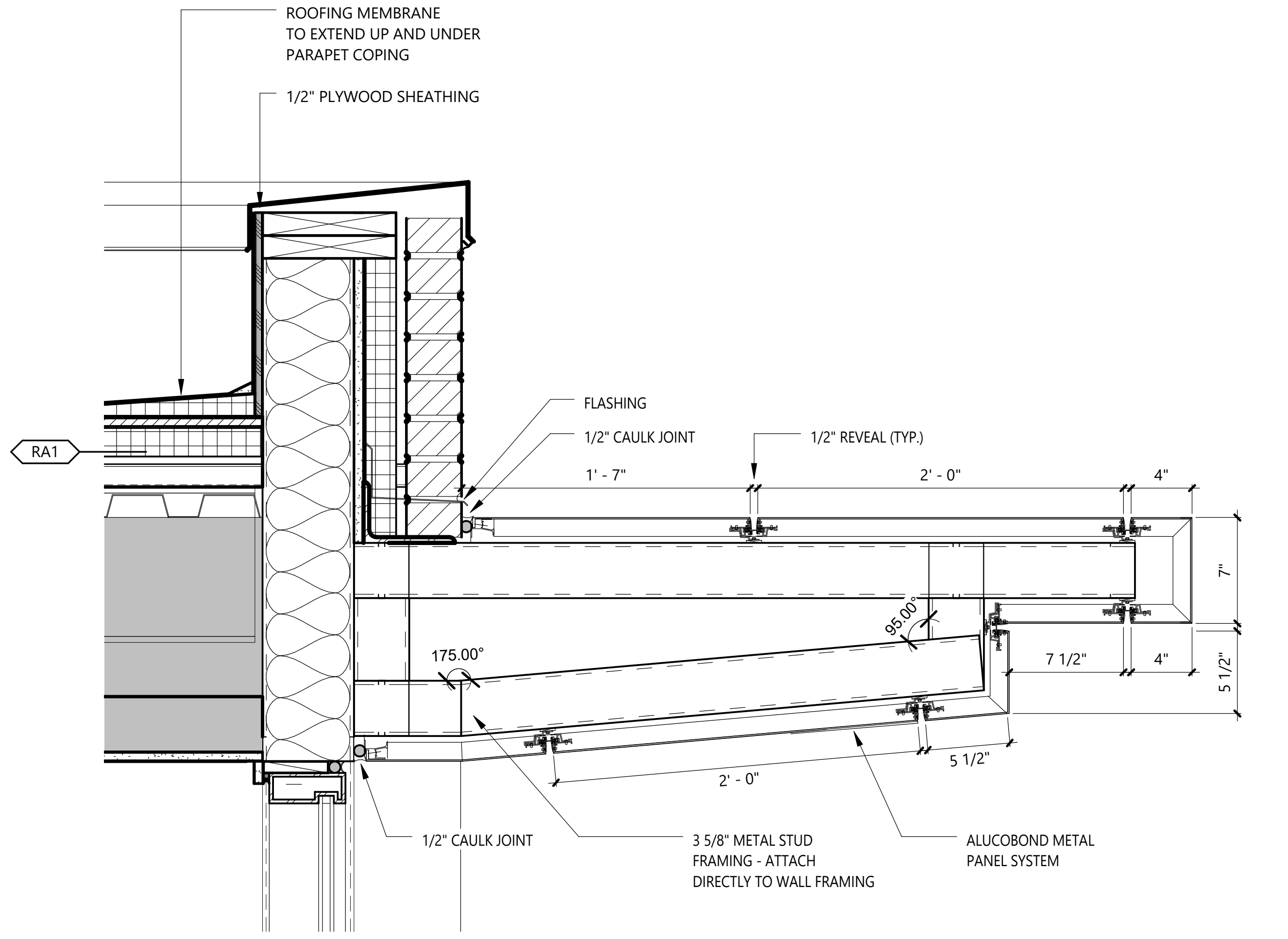
MTL STUD FRAMING SHALL BE 20 GA MINIMUM. EXACT SIZE DETERMINED BY LIMITING HGTS TABLE PER MANF'R AND ASTM C645 AND C754. ALL FASTENERS ARE #6 DIA (1"L) SELF-TAPPING STEEL SCREWS.


6" MIN
3-5/8" MTL STUD FRAMING AT 16" O.C. - EXTEND TIGHT TO DECK ABOVE. BRACE AS REQUIRED. FASTEN TO DECK AT 24" O.C. MAX.
LAY IN CEILING
VARIES - SEE R.C.P.
RECESSED LIGHT FIXTURE - SEE ELECTRICAL AND R.C.P.
7'-0" AFF U.N.O.
MTL CORNER BEAD
VARIES - REF RCP
(1) LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE
SCHEDULED INTERIOR PARTITION

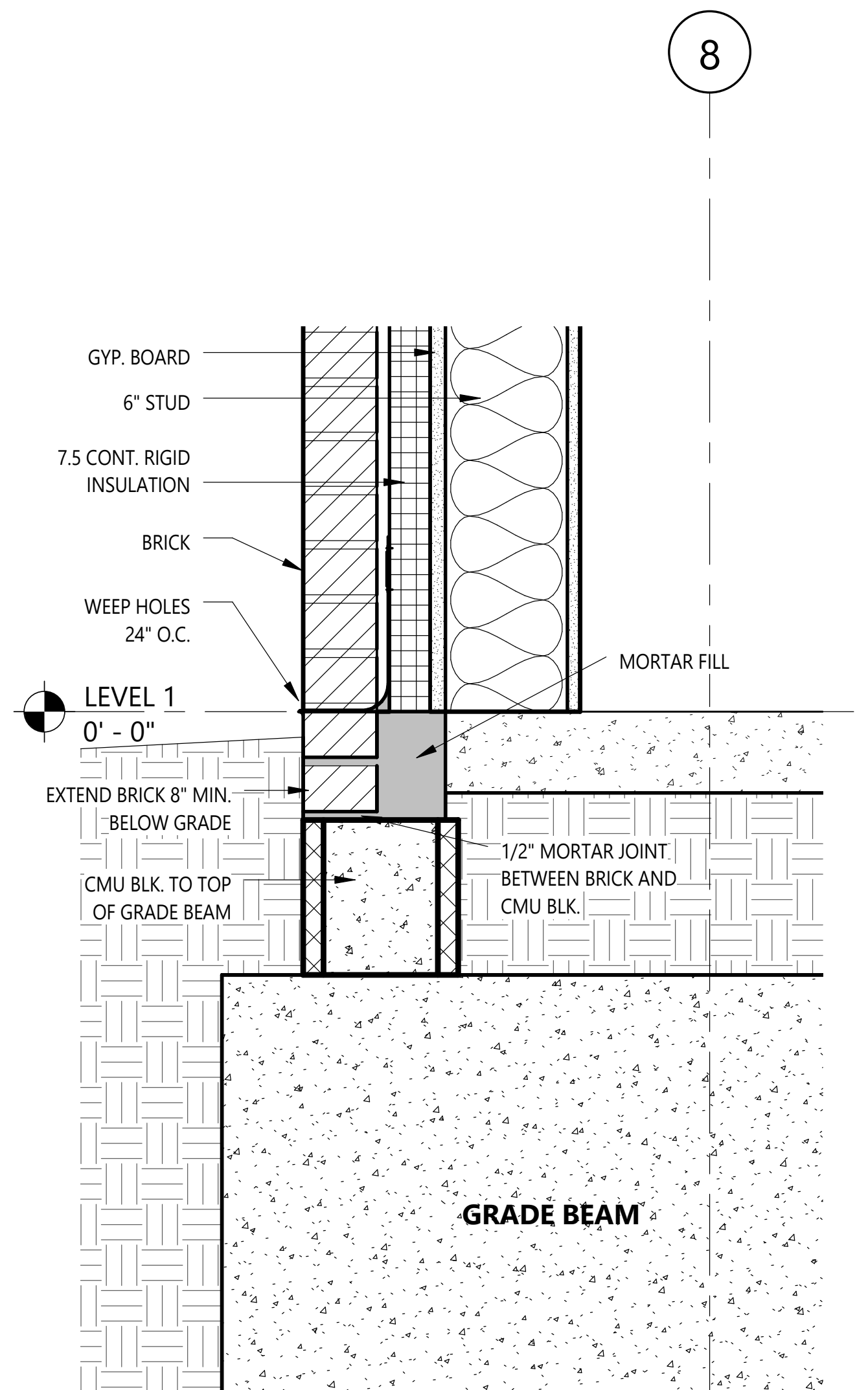
3 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"


ROOFING MEMBRANE TO EXTEND UP AND UNDER PARAPET COPING
1/2" PLYWOOD SHEATHING
FLASHING
1/2" CAULK JOINT
1/2" REVEAL
1' - 4"
4"
3 5/8" METAL STUD FRAMING - ATTACH DIRECTLY TO WALL FRAMING
1/2" CAULK JOINT

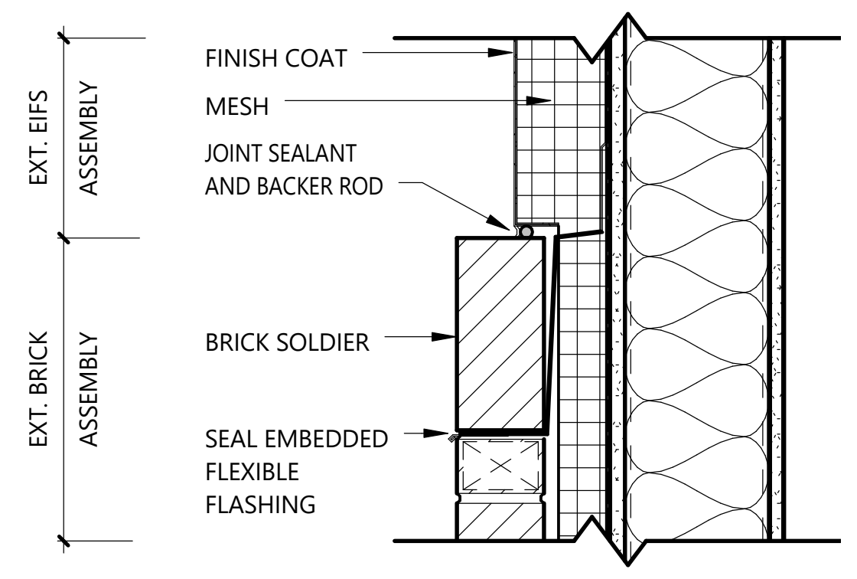
15 CANOPY DETAIL 2
SCALE: 1 1/2" = 1'-0"


ROOFING MEMBRANE TO EXTEND UP AND UNDER PARAPET COPING
1/2" PLYWOOD SHEATHING
RA1
FLASHING
1/2" CAULK JOINT
1/2" REVEAL (TYP.)
1' - 7"
2' - 0"
4"
7"
95.00°
175.00°
7 1/2"
4"
5 1/2"
5 1/2"
2' - 0"
1/2" CAULK JOINT
3 5/8" METAL STUD FRAMING - ATTACH DIRECTLY TO WALL FRAMING
ALUCOBOND METAL PANEL SYSTEM

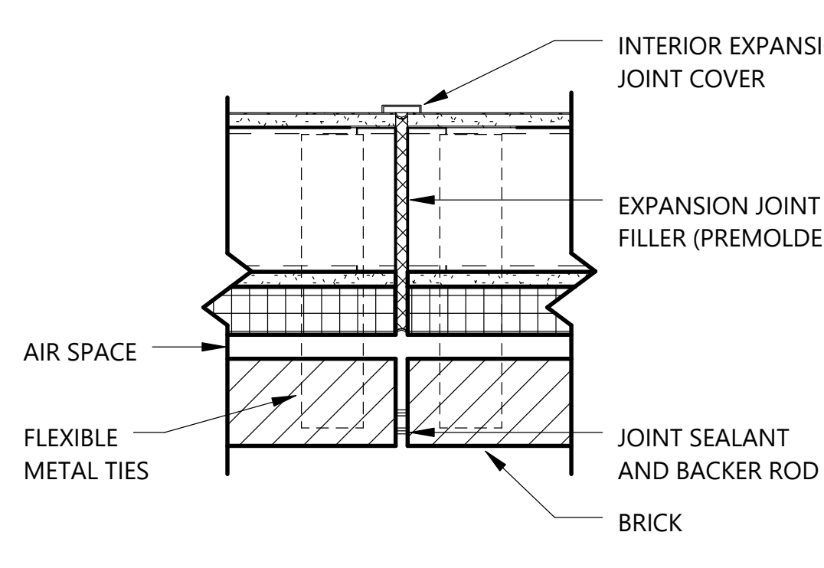
12 VESTIBULE PARAPET & CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"


8
GYP. BOARD
6" STUD
7.5 CONT. RIGID INSULATION
BRICK
WEEP HOLES 24" O.C.
MORTAR FILL
LEVEL 1
0' - 0"
EXTEND BRICK 8" MIN. BELOW GRADE
1/2" MORTAR JOINT BETWEEN BRICK AND CMU BLK.
CMU BLK. TO TOP OF GRADE BEAM
GRADE BEAM

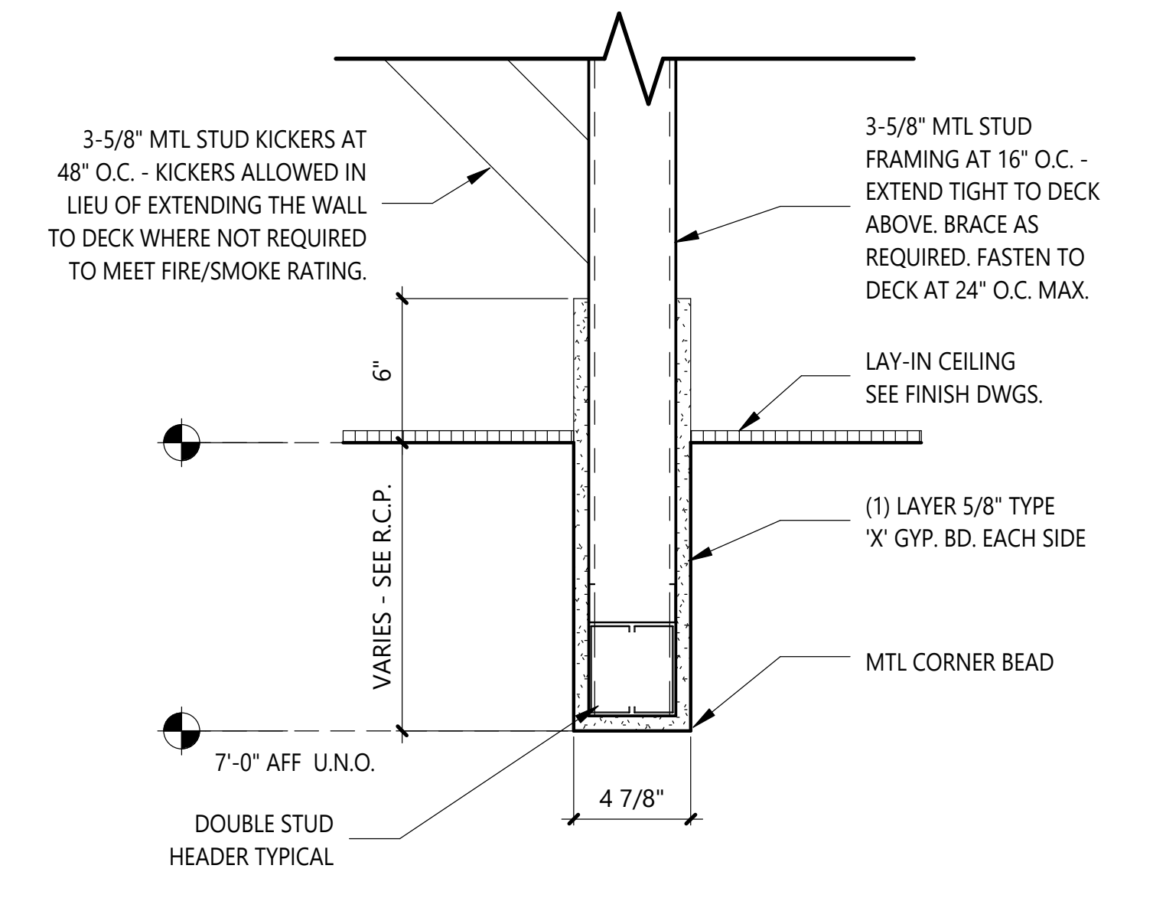
11 FOOTING DETAIL
SCALE: 1 1/2" = 1'-0"



8 SOLDIER TO EIFS TRANSITION
SCALE: 1 1/2" = 1'-0"


INTERIOR EXPANSION JOINT COVER
EXPANSION JOINT FILLER (PREMOLDED)
AIR SPACE
FLEXIBLE METAL TIES
JOINT SEALANT AND BACKER ROD
BRICK

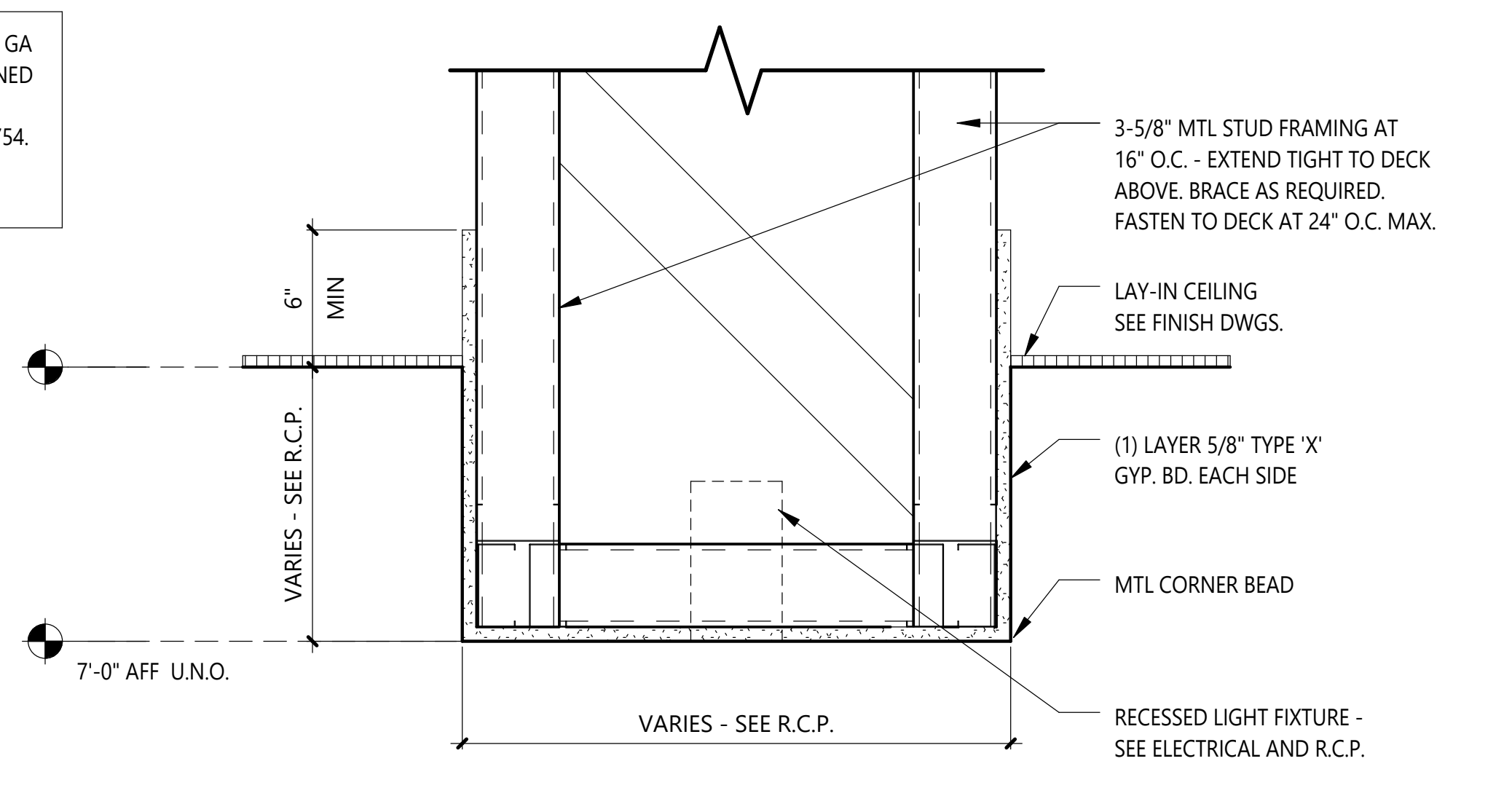
7 EXPANSION JOINT AT MASONRY CAVITY WALL
SCALE: 1 1/2" = 1'-0"


3-5/8" MTL STUD KICKERS AT 48" O.C. - KICKERS ALLOWED IN LIEU OF EXTENDING THE WALL TO DECK WHERE NOT REQUIRED TO MEET FIRE/SMOKE RATING.
3-5/8" MTL STUD FRAMING AT 16" O.C. - EXTEND TIGHT TO DECK ABOVE. BRACE AS REQUIRED. FASTEN TO DECK AT 24" O.C. MAX.
6"
LAY-IN CEILING SEE FINISH DWGS.
VARIES - SEE R.C.P.
(1) LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE
MTL CORNER BEAD
7'-0" AFF U.N.O.
4 7/8"
DOUBLE STUD HEADER TYPICAL

MTL STUD FRAMING SHALL BE 20 GA MINIMUM. EXACT SIZE DETERMINED BY LIMITING HGTS TABLE PER MANFACTURER AND ASTM C645 AND C754. ALL FASTENERS ARE #6 DIA (1"L) SELF-TAPPING STEEL SCREWS.

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

MTL STUD FRAMING SHALL BE 20 GA MINIMUM. EXACT SIZE DETERMINED BY LIMITING HGTS TABLE PER MANF'R AND ASTM C645 AND C754. ALL FASTENERS ARE #6 DIA (1"L) SELF-TAPPING STEEL SCREWS.


3-5/8" MTL STUD FRAMING AT 16" O.C. - EXTEND TIGHT TO DECK ABOVE. BRACE AS REQUIRED. FASTEN TO DECK AT 24" O.C. MAX.
6" MIN
LAY-IN CEILING SEE FINISH DWGS.
VARIES - SEE R.C.P.
(1) LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE
MTL CORNER BEAD
7'-0" AFF U.N.O.
VARIES - SEE R.C.P.
RECESSED LIGHT FIXTURE - SEE ELECTRICAL AND R.C.P.

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

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

02/15/19

DATES OF ISSUANCE
△1

TITLE
EXTERIOR AND INTERIOR DETAILS

SHEET
A500

C:_Revit Local\217026.05_Lee's Summit MOB Redesign_01.09.19_LOCAL_2016.rvt
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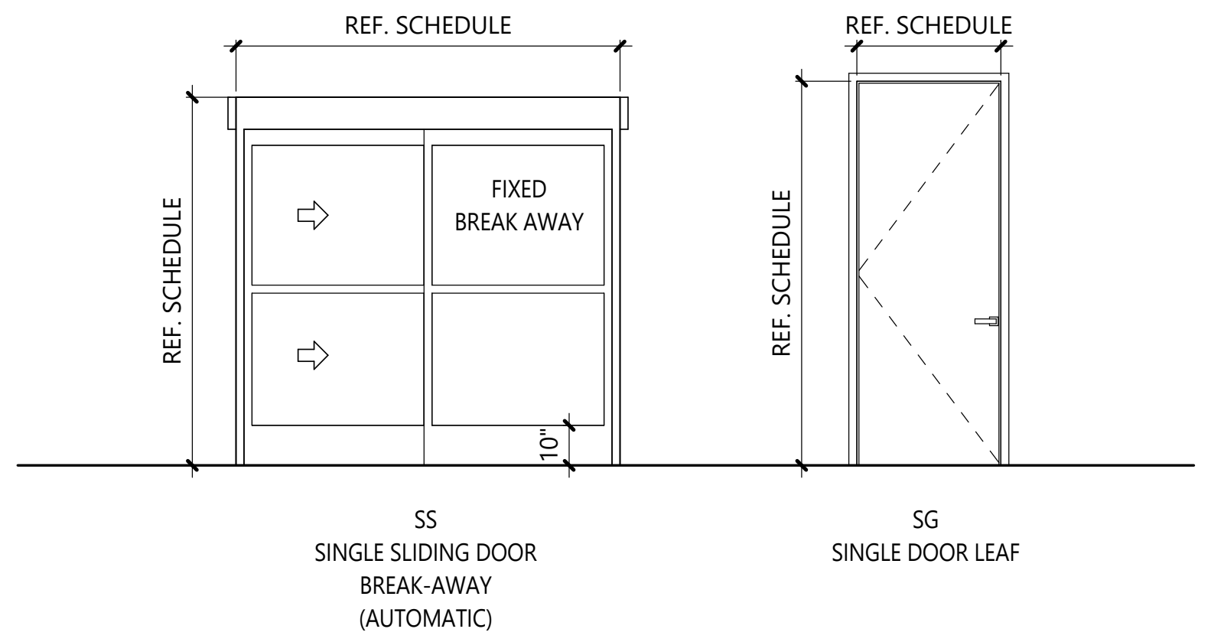
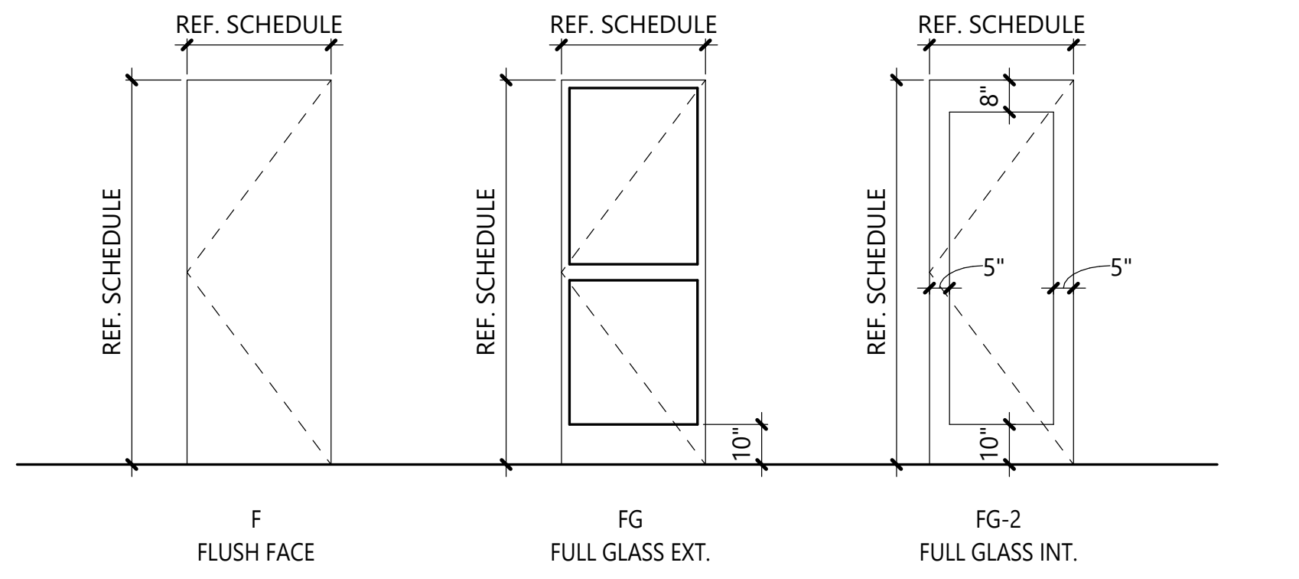
DOOR SCHEDULE

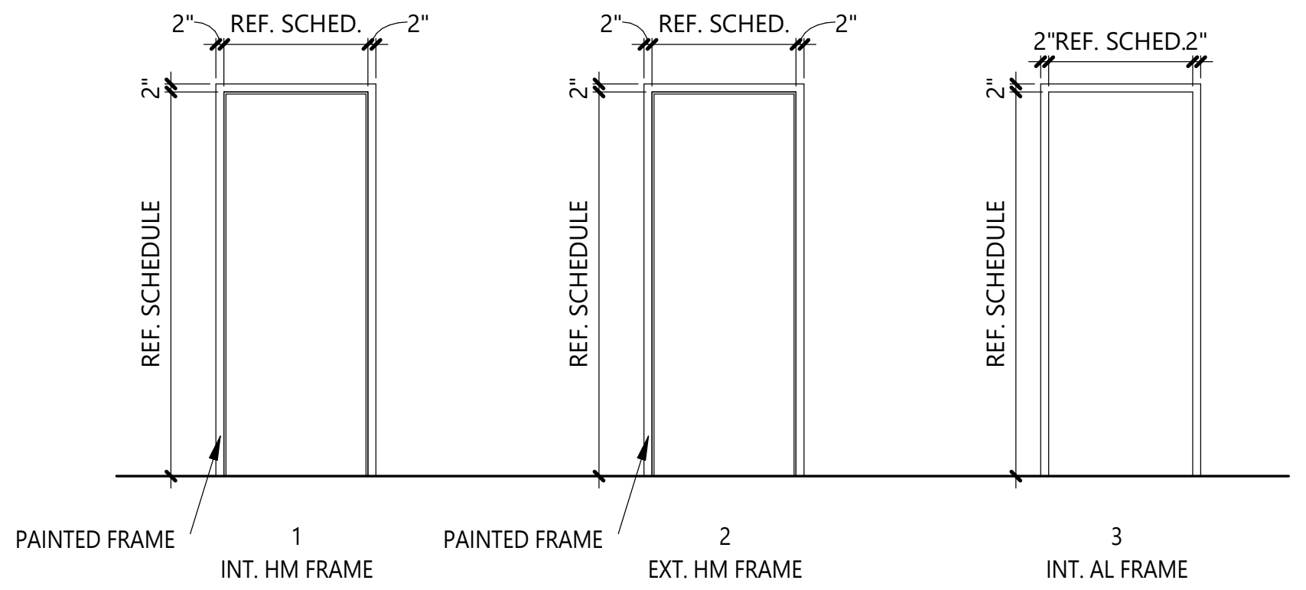
LOCATION		ROOMS				DOOR SLAB							HARDWARE		FRAME			DETAILS			
		FROM		TO		SIZE															
Level	DOOR NUMBER	NAME	NO.	NAME	NO.	WIDTH	HEIGHT	THK	RATING	TYPE	PANEL	MATL.	HARDWARE SET	Hardware Type	RATING	ELEV.	MATL.	HEAD	JAMB	SILL	NOTES / REMARKS
LEVEL 1																					
LEVEL 1	002					9' - 8"	7' - 8"	2"					112A	CANE BOLT							DUMPSTER GATE
LEVEL 1	100A			ENTRY VESTIBULE	100	8' - 0"	7' - 0"			SS	FG	AL/GL	110A	ALUM SLIDING W/ CARD READER		1	AL	5/A602	6/A602	7/A602	
LEVEL 1	100B	ENTRY VESTIBULE	100	ELEVATOR LOBBY	101	8' - 0"	7' - 0"			SS	FG	AL/GL	110A	ALUM SLIDING W/ CARD READER		1	AL	5/A602	6/A602	7/A602	CARD READER
LEVEL 1	105A	ELEVATOR LOBBY	101	TENANT SPACE	105	3' - 0"	8' - 0"	1 3/4"		SG	FG-2	SCWD	(none)			3	AL				
LEVEL 1	105B	CORRIDOR	107	TENANT SPACE	105	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	105C	ELEVATOR LOBBY	101	MAIL ROOM	102	3' - 0"	8' - 0"	1 3/4"		SG	FG-2	SCWD	(none)			3	AL				
LEVEL 1	106A	STAIR 2	106	CORRIDOR	107	3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	SCWD	010D	FIRE EXIT HARDWARE	1 HR	1	HM	3/A602	4/A602		CARD READER
LEVEL 1	106B	STAIR 2	106			3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	HM	101D	PANIC HARDWARE	1 HR	2	HM	1/A602	2/A602		
LEVEL 1	107	CORRIDOR	107			3' - 0"	7' - 0"	1 3/4"		SG	F	HM	101D	PANIC HARDWARE		2	HM	1/A602	2/A602		CARD READER
LEVEL 1	108A	CORRIDOR	107	TENANT SPACE	108	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	108B	CORRIDOR	107	TENANT SPACE	108	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	109	CORRIDOR	107	ELEC. AND COMM.	109	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	110	M. TLT.	110	CORRIDOR	115	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	005E	PUSH/PULL PLATE		1	HM	3/A602	4/A602		
LEVEL 1	111	CORRIDOR	115	W. TLT.	111	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	005E	PUSH/PULL PLATE		1	HM	3/A602	4/A602		
LEVEL 1	112	CORRIDOR	115	HSKP	112	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	113	CORRIDOR	115	FACILITIES MGMT	113	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	114	FIRE RISER	114			3' - 0"	7' - 0"	1 3/4"		SG	F	HM	101E	STOREROOM W/ DEADBOLT		2	HM	1/A602	2/A602		
LEVEL 1	115	CORRIDOR	115			3' - 0"	7' - 0"	1 3/4"		SG	F	HM	101D	PANIC HARDWARE		2	HM	1/A602	2/A602		CARD READER
LEVEL 1	116A	ELEVATOR LOBBY	101	TENANT SPACE	116	3' - 0"	8' - 0"	1 3/4"		SG	FG-2	SCWD	(none)			3	AL				
LEVEL 1	116B	CORRIDOR	115	TENANT SPACE	116	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 1	117A	ELEVATOR LOBBY	101	STAIR 1	117	3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	SCWD	010E	FIRE EXIT HARDWARE	1 HR	1	HM	3/A602	4/A602		CARD READER
LEVEL 1	117B	STAIR 1	117			3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	HM	101D	PANIC HARDWARE	1 HR	2	HM	1/A602	2/A602		
LEVEL 2																					
LEVEL 2	202A	ELEVATOR LOBBY	201	TENANT SPACE	202	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	202B	CORRIDOR	213	TENANT SPACE	202	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	202C	CORRIDOR	206	TENANT SPACE	202	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	205	STAIR 2	205	CORRIDOR	206	3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	HM	010A	FIRE EXIT HARDWARE	1 HR	1	HM	3/A602	4/A602		
LEVEL 2	207A	TENANT SPACE	207	ELEVATOR LOBBY	201	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	207B	CORRIDOR	206	TENANT SPACE	207	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	207C	CORRIDOR	206	TENANT SPACE	207	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	208	CORRIDOR	206	COMM.	208	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	209	CORRIDOR	206	ELEC.	209	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	210	M. TLT.	210	CORRIDOR	213	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	005E	PUSH/PULL PLATE		1	HM	3/A602	4/A602		
LEVEL 2	211	CORRIDOR	213	W. TLT.	211	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	005E	PUSH/PULL PLATE		1	HM	3/A602	4/A602		
LEVEL 2	212	HSKP.	212	CORRIDOR	213	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 2	214	STAIR 1	214	ELEVATOR LOBBY	201	3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	SCWD	010A	FIRE EXIT HARDWARE	1 HR	1	HM	3/A602	4/A602		
LEVEL 3																					
LEVEL 3	302A	ELEVATOR LOBBY	301	TENANT SPACE	302	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	302B	CORRIDOR	313	TENANT SPACE	302	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	302C	CORRIDOR	306	TENANT SPACE	302	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	305	STAIR 2	305	CORRIDOR	306	3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	SCWD	010A	FIRE EXIT HARDWARE	1 HR	1	HM	3/A602	4/A602		
LEVEL 3	307A	TENANT SPACE	307	ELEVATOR LOBBY	301	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	307B	CORRIDOR	306	TENANT SPACE	307	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006D	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	307C	CORRIDOR	306	TENANT SPACE	307	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007C	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	308	CORRIDOR	306	COMM.	308	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	309	CORRIDOR	306	ELEC.	309	3' - 0"	7' - 0"	1 3/4"		SG	F	HM	007A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	310	M. TLT.	310	CORRIDOR	313	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	005E	PUSH/PULL PLATE		1	HM	3/A602	4/A602		
LEVEL 3	311	CORRIDOR	313	W. TLT.	311	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	005E	PUSH/PULL PLATE		1	HM	3/A602	4/A602		
LEVEL 3	312	HSKP.	312	CORRIDOR	313	3' - 0"	7' - 0"	1 3/4"		SG	F	SCWD	006A	STOREROOM LOCK		1	HM	3/A602	4/A602		
LEVEL 3	314	ELEVATOR LOBBY	301	STAIR 1	314	3' - 0"	7' - 0"	1 3/4"	90 MIN	SG	F	SCWD	010A	FIRE EXIT HARDWARE	1 HR	1	HM	3/A602	4/A602		
ROOF																					
ROOF	401					2' - 6"	1' - 0 19/32"						900	ROOF HATCH							



A601 - DOOR TYPE
SCALE: 1/4" = 1'-0"



A601 - DOOR PANEL
SCALE: 1/4" = 1'-0"



A601 - FRAME TYPES
SCALE: 1/4" = 1'-0"

DOOR LEGEND & ABBREVIATIONS

DOOR PANEL TYPE LEGEND

AA	PAIR BOTH ACTIVE
AI	PAIR ACTIVE/INACTIVE
DE	PAIR DOUBLE EGRESS
OC	OVERHEAD COILING DOOR
SG	SINGLE DOOR LEAF
SS	SINGLE SLIDER
TS	TELESCOPIC SLIDER

DOOR ABBREVIATIONS LEGEND

AL	ALUMINUM
AP	AI PHONE INTERCOM/CAMERA
CR	CARD READER
CAL	CARD ACCESS LOCKSET
DBL	DOUBLE
EXT	EXTERIOR
GL	GLAZING
HM	HOLLOW METAL
AL/GL	ALUMINUM W/ GLASS
KP	KEYPAD
CR/KP	CARD READER/KEYPAD COMBO
MHO	MAGNETIC HOLD-OPENS
MOT	MOTION SENSOR
OPNG	OPENING
PB	PUSH BUTTON
PTD	PAINTED
RR	REMOTE RELEASE
SCWD	SOLID-CORE WOOD DOOR
SMOKE	SMOKE-TIGHT
THHD	THRESHOLD
STL	STEEL

DOOR NOTES

1. REFER TO SHEETS A141 , A142 , AND A143 FOR DOOR ACCESS CONTROL.
2. CONTRACTOR SHALL FIELD VERIFY WALL THICKNESSES FOR EACH DOOR HEAD/JAMB.
3. CONTRACTOR SHALL VERIFY ALL DOOR HARDWARE WITH DIV. 8 HARDWARE SPECIFICATIONS.

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WILLIAM E. HEREFORD III

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DATES OF ISSUANCE

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DOOR SCHEDULES

SHEET
A601

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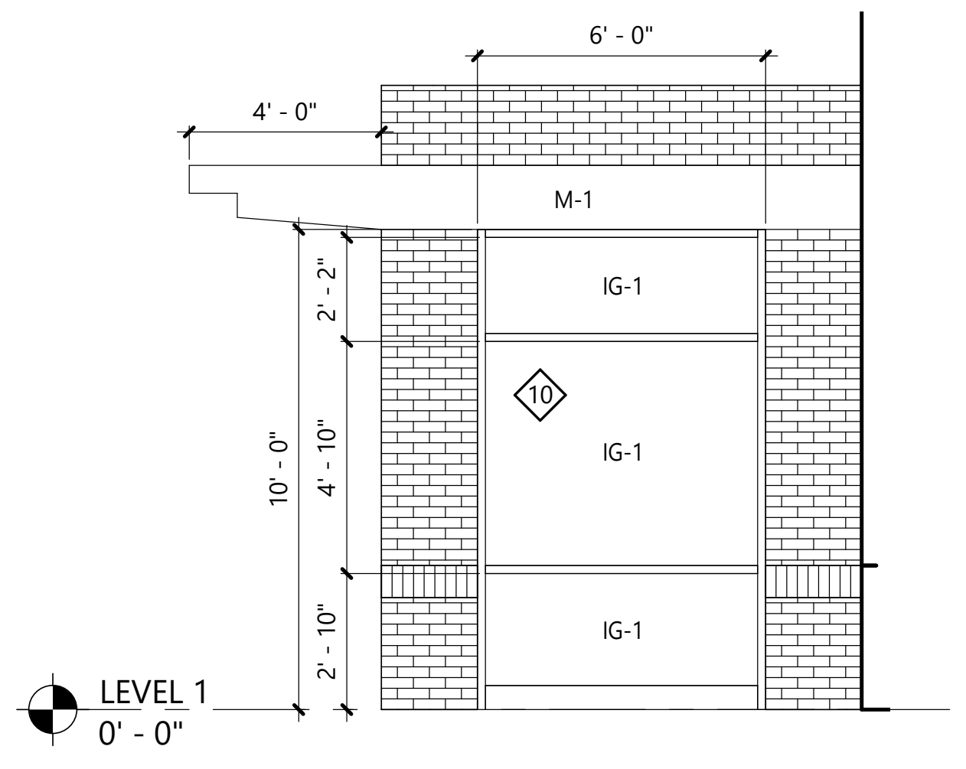
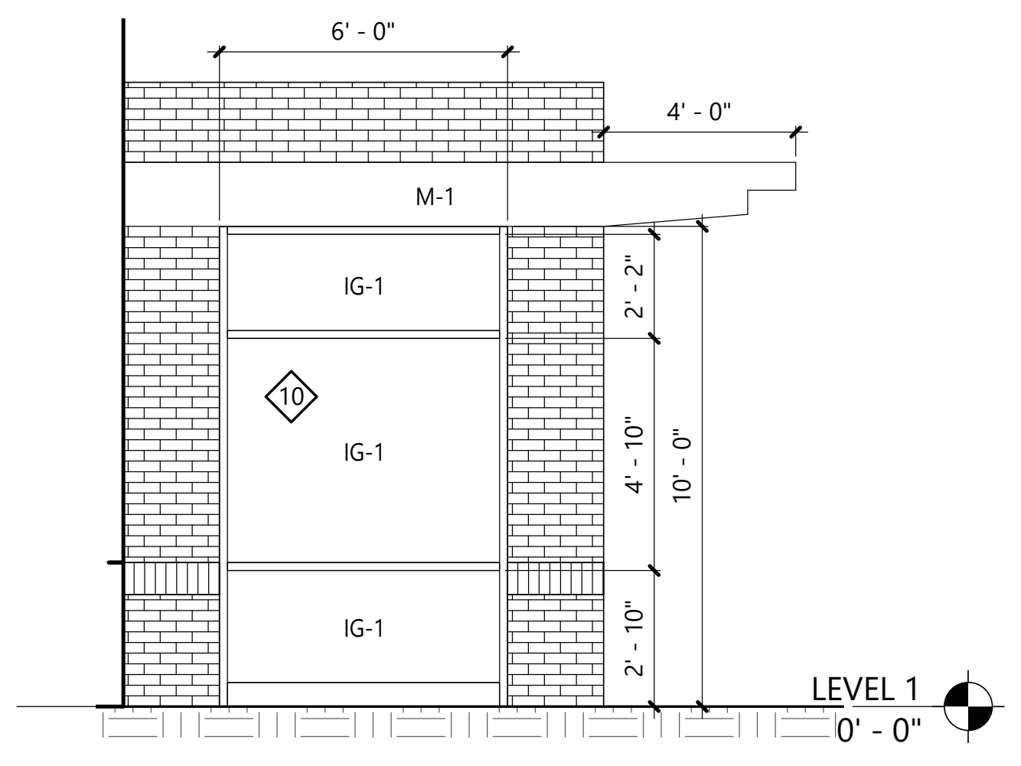
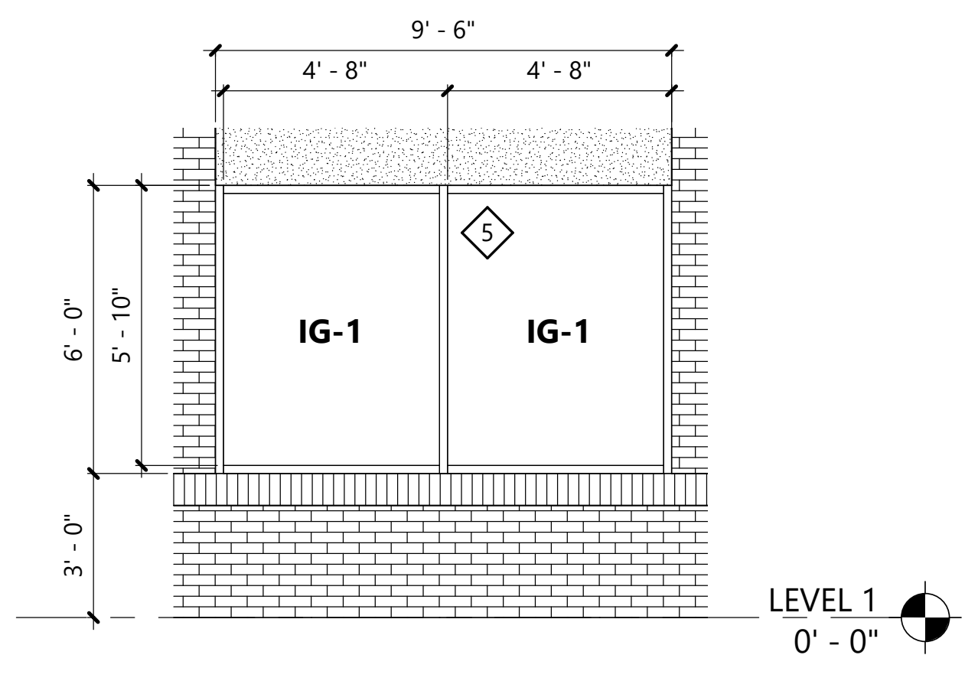


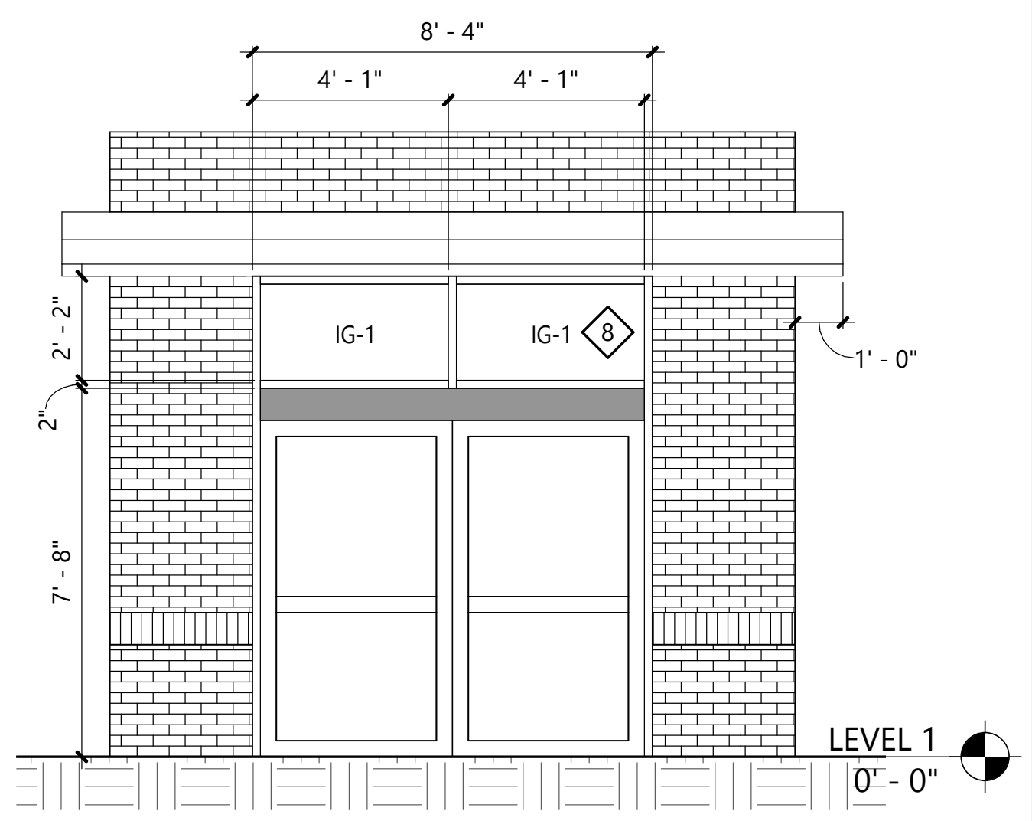
12 WINDOW TYPE 10
SCALE: 1/4" = 1'-0"



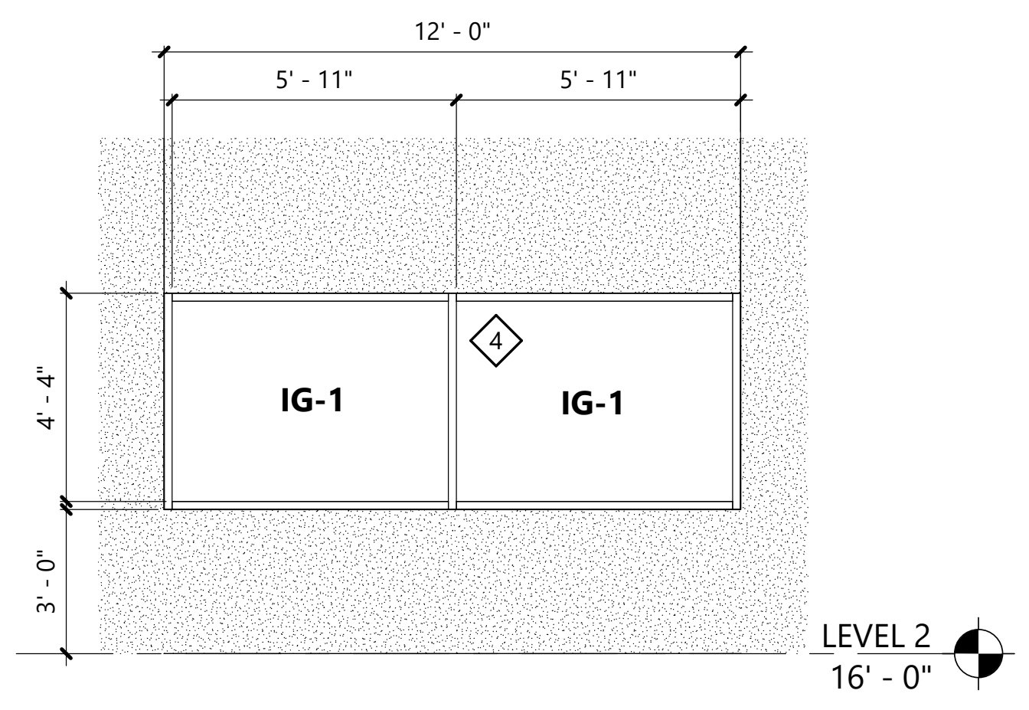
10 WINDOW TYPE 10
SCALE: 1/4" = 1'-0"



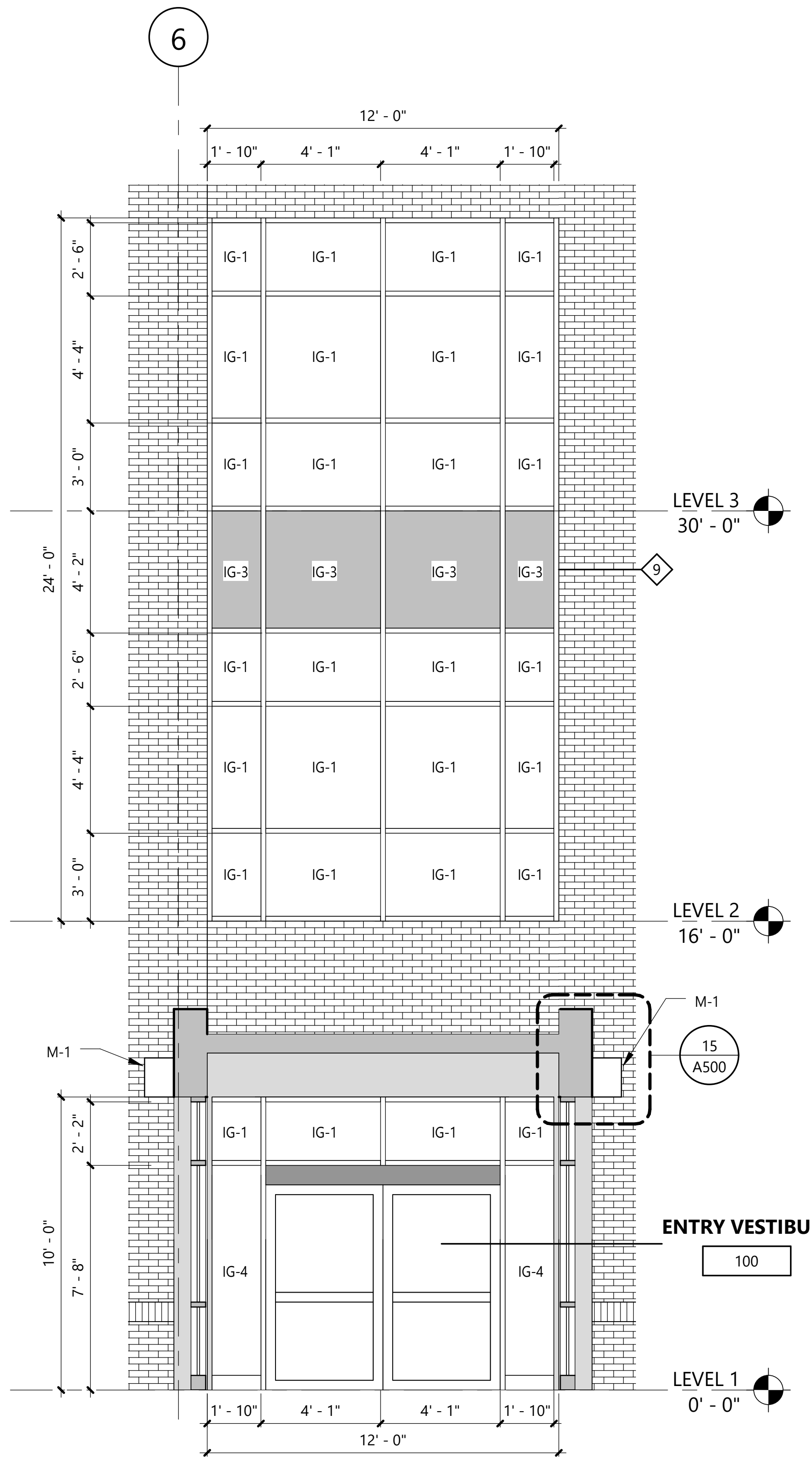
5 WINDOW TYPE 5
SCALE: 1/4" = 1'-0"



9 WINDOW TYPE 8
SCALE: 1/4" = 1'-0"



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



11 WINDOW TYPE 9
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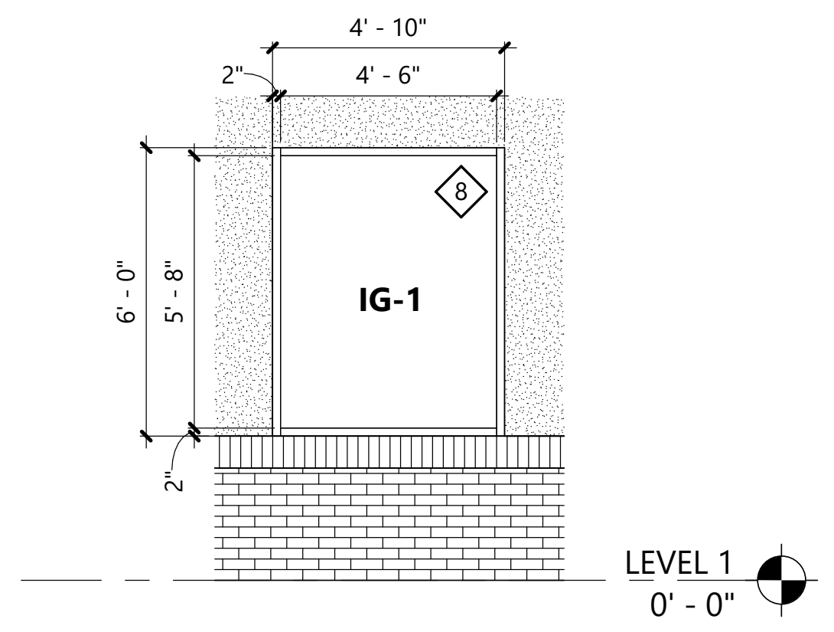
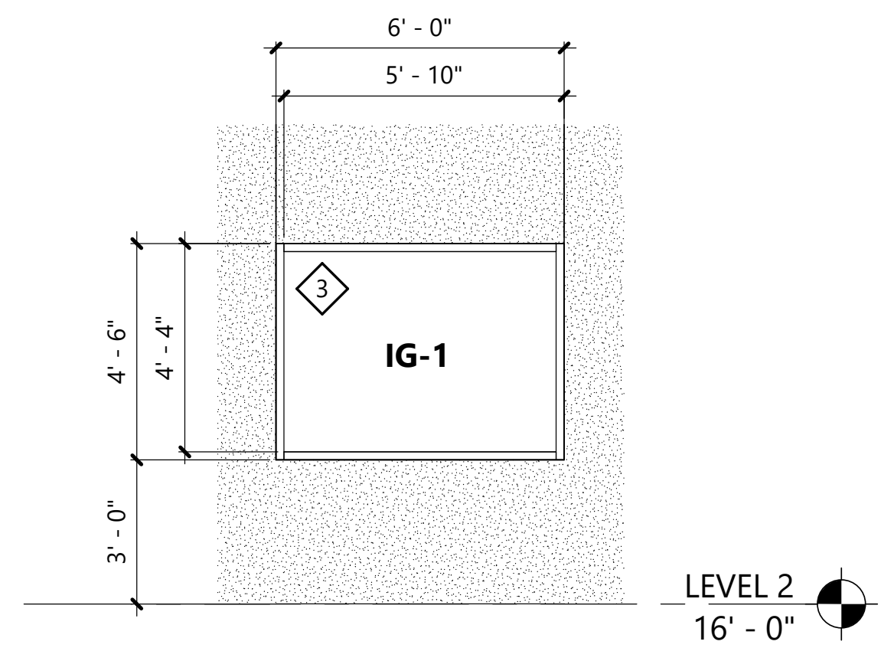
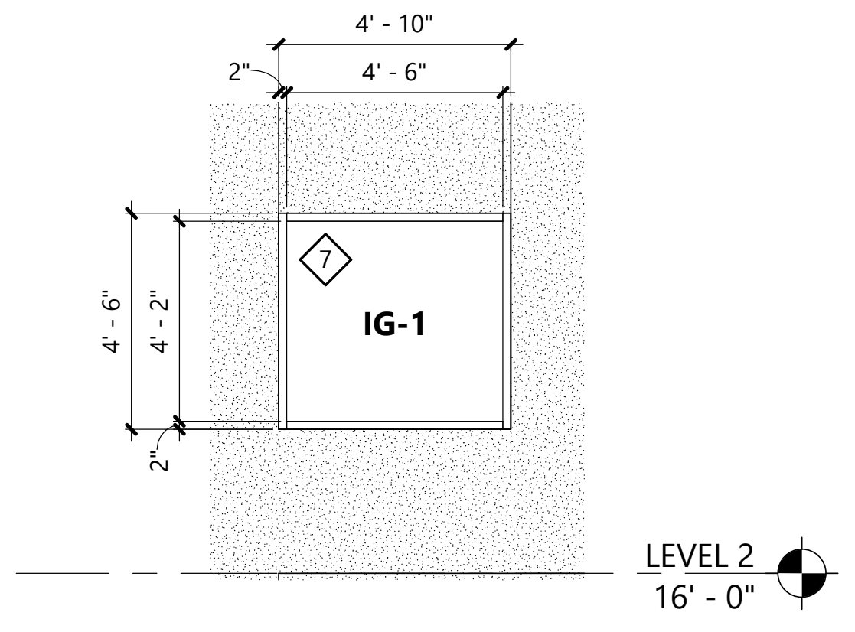


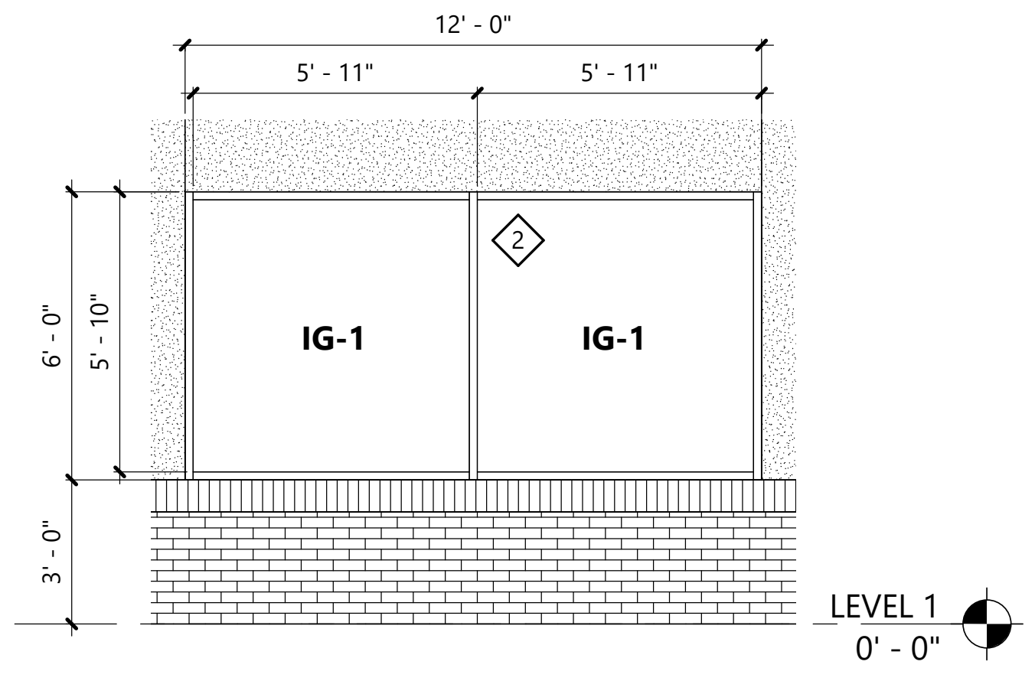
8 WINDOW TYPE 8
SCALE: 1/4" = 1'-0"



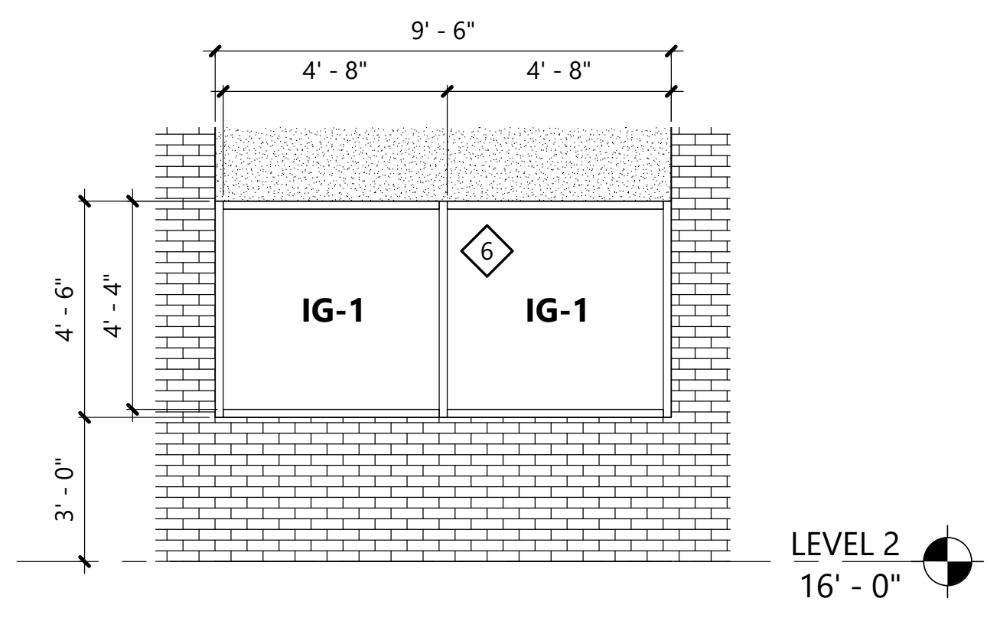
3 WINDOW TYPE 3
SCALE: 1/4" = 1'-0"



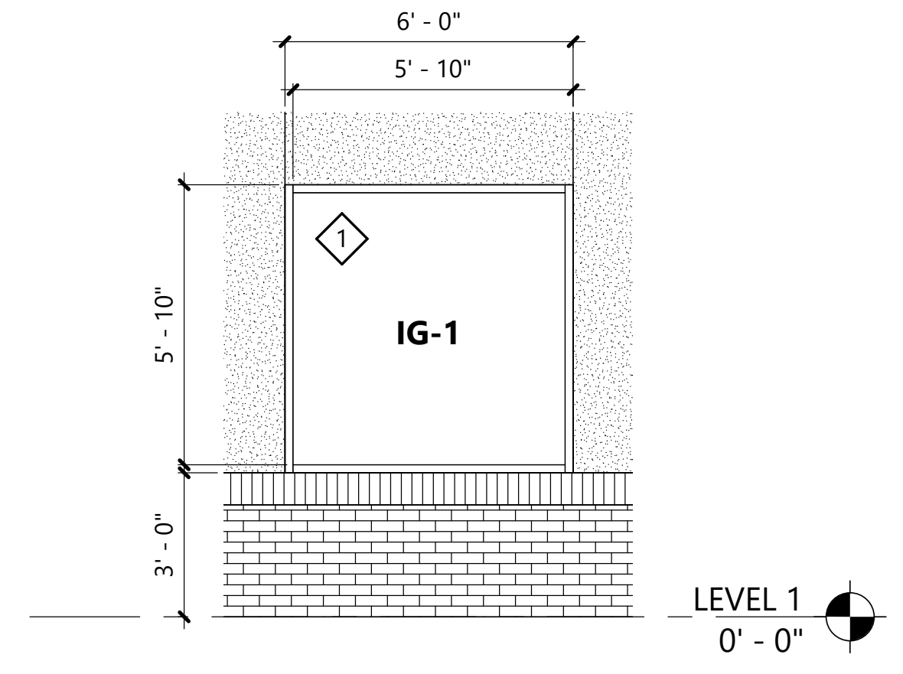
7 WINDOW TYPE 7
SCALE: 1/4" = 1'-0"



2 WINDOW TYPE 2
SCALE: 1/4" = 1'-0"



6 WINDOW TYPE 6
SCALE: 1/4" = 1'-0"



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

EXTERIOR MATERIALS SCHEDULE

PATTERN AND MARKER	MANUFACTURER	PRODUCT AND COLOR FINISH
E1	REFER TO SPECIFICATIONS	**EIFS : FIELD COLOR (MATCH EXISITNG MOB'S DARKER EIFS COLOR)**
E2	REFER TO SPECIFICATIONS	**EIFS : ACCENT COLOR (MATCH EXISITNG MOB'S LIGHTER EIFS COLOR)**
B1	REFER TO SPECIFICATIONS	**BRICK (MATCH EXISITNG MOB'S BRICK COLOR)**
M1	REFER TO SPECIFICATIONS	**METAL WALL PANEL REYNOBOND / ANODIC CLEAR**
#	REFER TO SPECIFICATIONS	**GLAZING VISION GLASS : SOLARBAN 60 SOLARBRONZE +SOLARBAN 60 (3) CLEAR**
#	REFER TO SPECIFICATIONS	**GLAZING SPANDREL GLASS : SOLARBAN 60 SOLARBRONZE + SOLARBAN 60 SPANDREL**
#	REFER TO SPECIFICATIONS	**ALUMINUM WINDOW FRAMES : CLEAR ANODIZED**

GLASS TYPE LEGEND

IG-1	CLEAR GLASS
IG-2	TRANSLUSCENT GLASS
IG-3	SPANDREL GLASS
IG-4	SAFETY GLASS

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REGISTERED ARCHITECT
15-19

WILLIAM E. HEREFORD III

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SHEET
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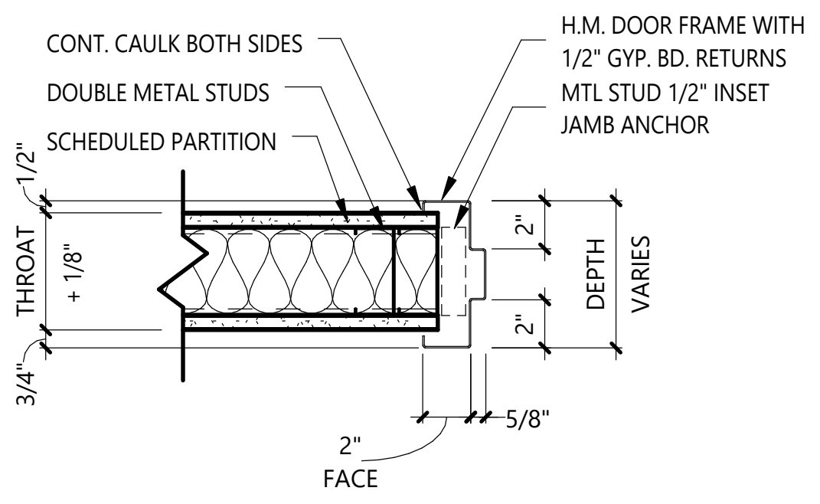
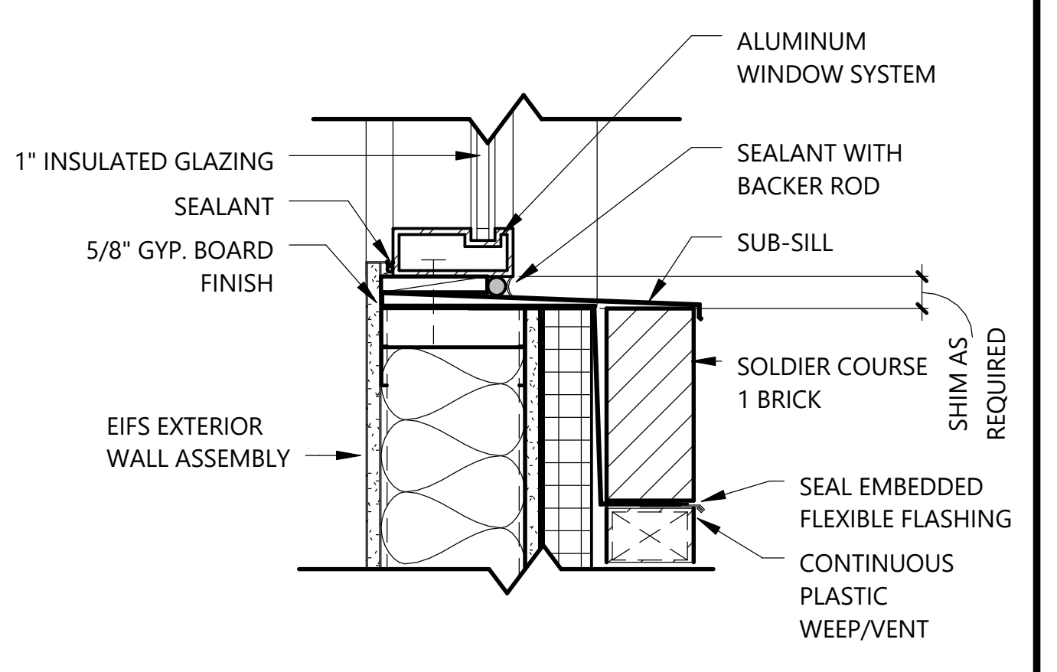
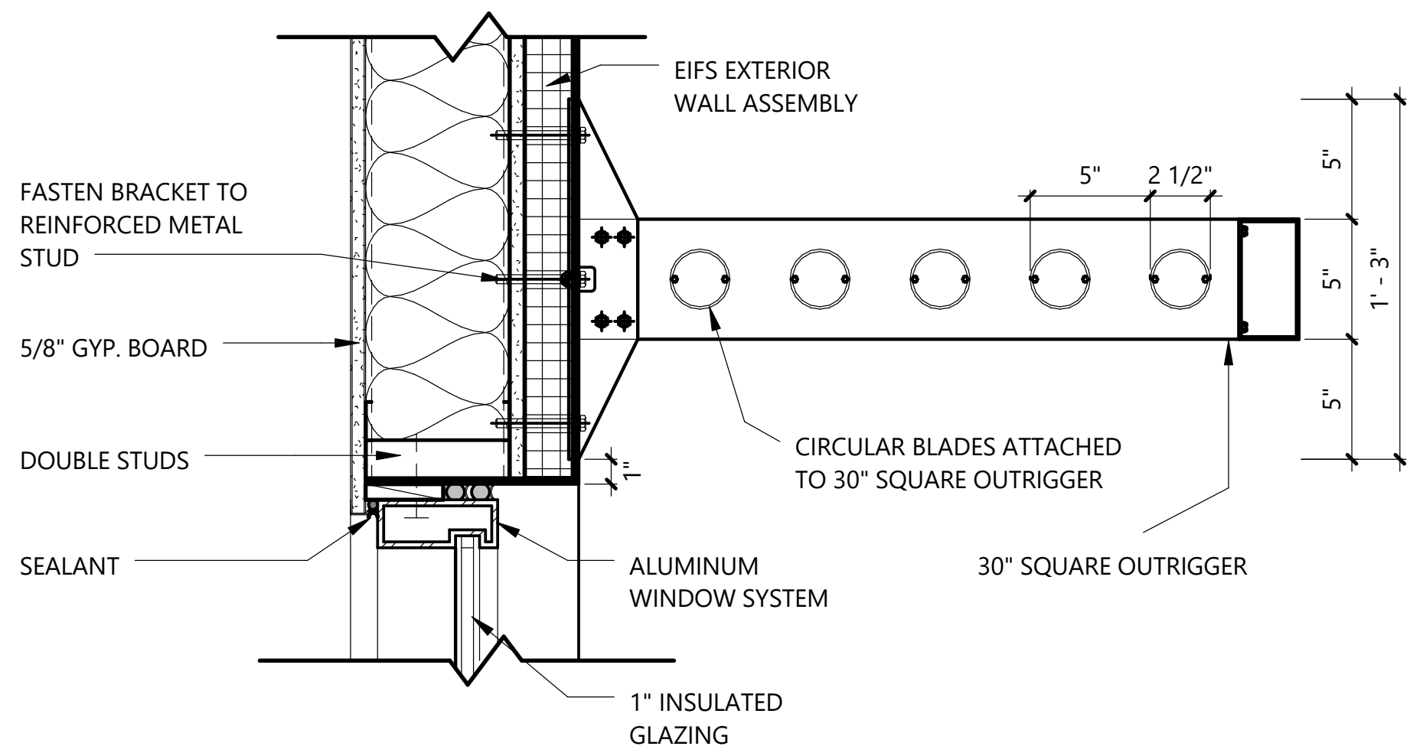


(SIMILAR FOR RATED DOORS)

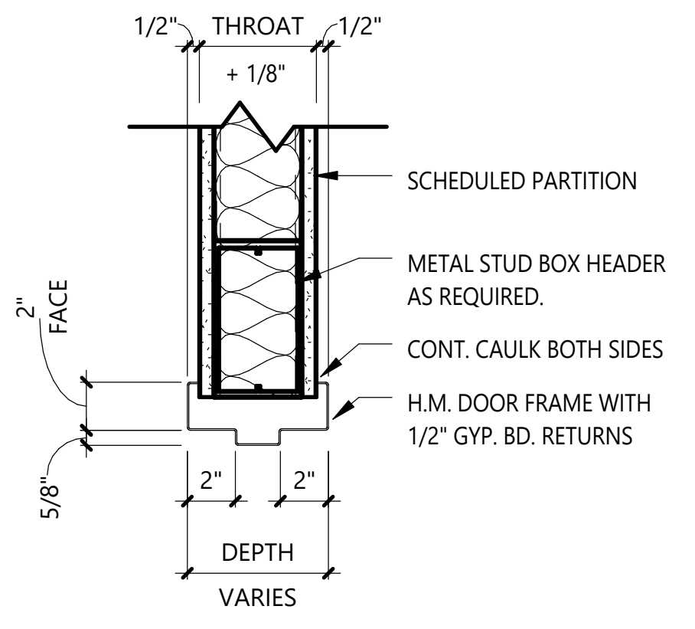
5 DOOR DETAIL - H.M. JAMB (INT)
SCALE: 1 1/2" = 1'-0"



16 WINDOW DETAIL - TYPICAL SILL WITH SOLDIER COURSE
SCALE: 1 1/2" = 1'-0"

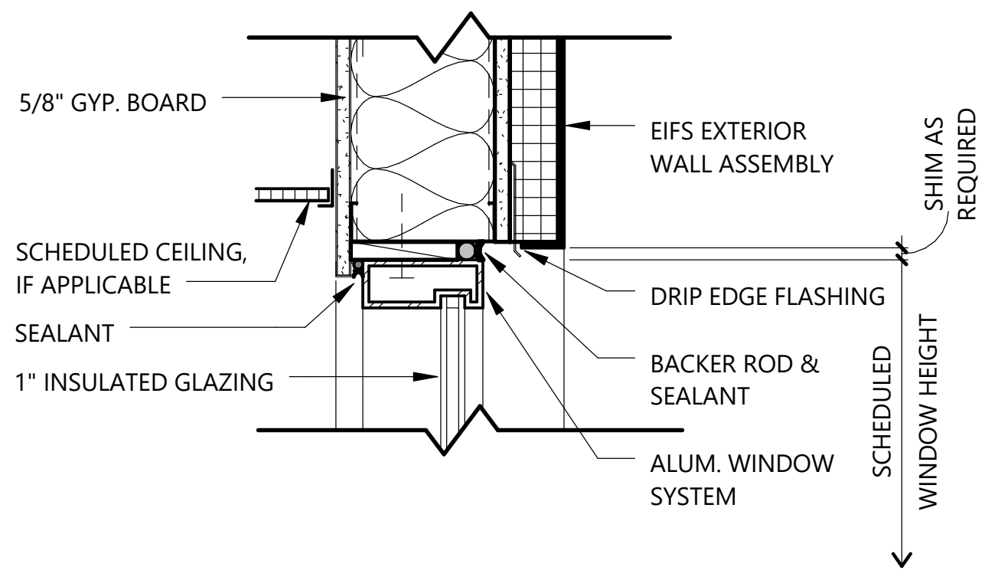


9 HORIZONTAL SUNSHADE DETAIL
SCALE: 1 1/2" = 1'-0"

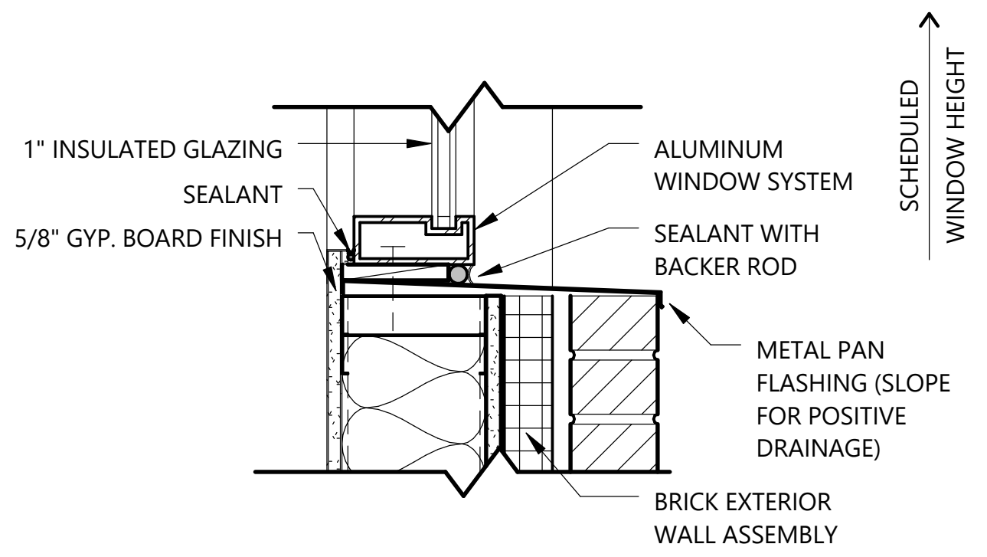


(SIMILIAR FOR RATED DOORS)

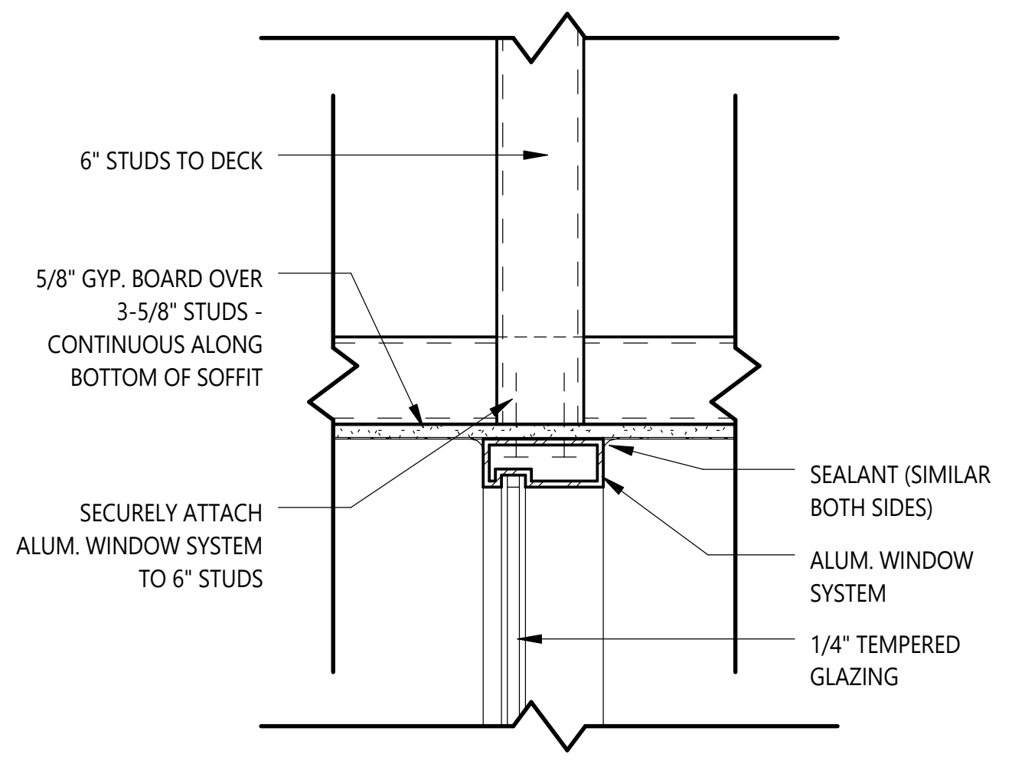
4 DOOR DETAIL - H.M. HEAD (INT)
SCALE: 1 1/2" = 1'-0"



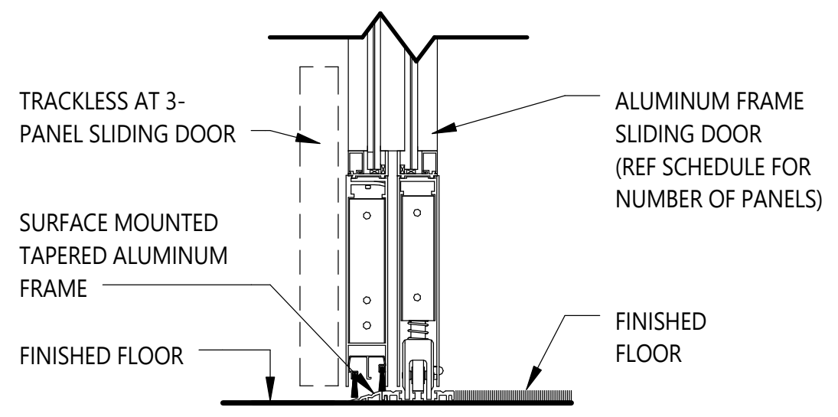
19 WINDOW DETAIL - TYPICAL HEAD (EXT.) EIFS
SCALE: 1 1/2" = 1'-0"



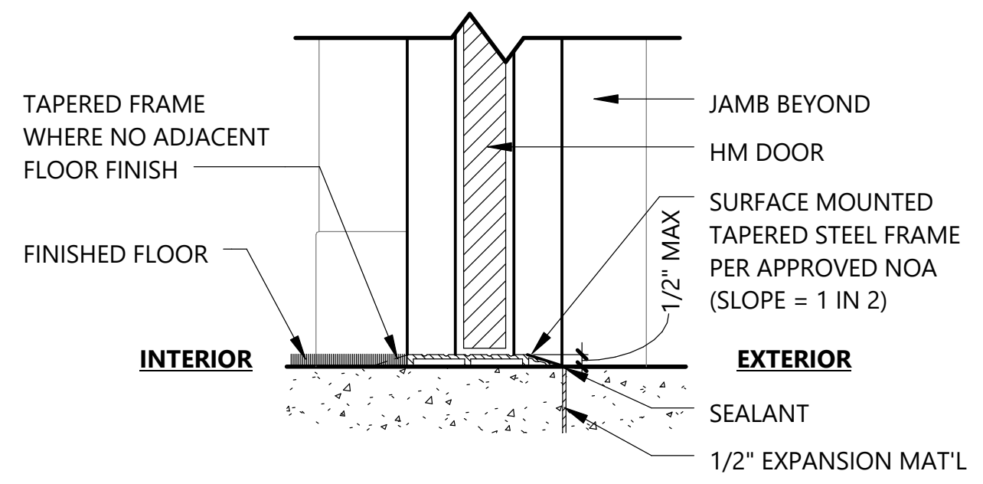
15 WINDOW DETAIL - TYPICAL SILL FLASHING (BRICK)
SCALE: 1 1/2" = 1'-0"


6" STUDS TO DECK
5/8" GYP. BOARD OVER 3-5/8" STUDS - CONTINUOUS ALONG BOTTOM OF SOFFIT
SECURELY ATTACH ALUM. WINDOW SYSTEM TO 6" STUDS
SEALANT (SIMILAR BOTH SIDES)
ALUM. WINDOW SYSTEM
1/4" TEMPERED GLAZING

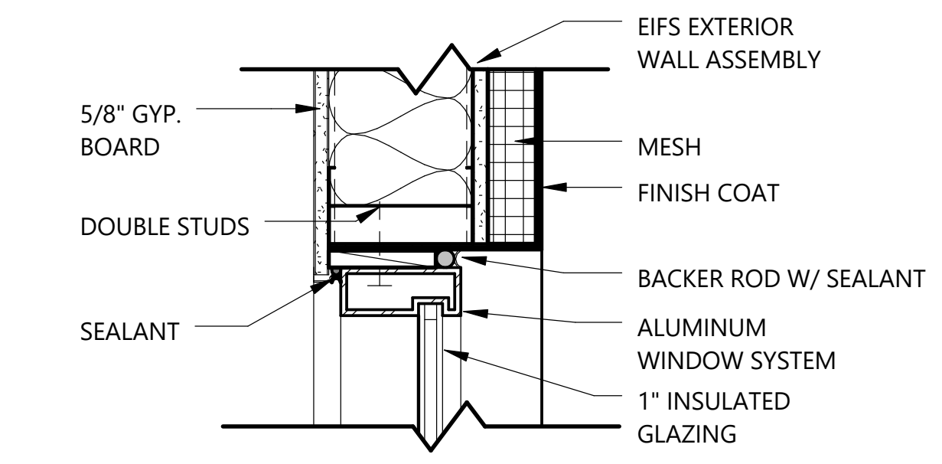
12 WINDOW - HEAD (INT)
SCALE: 1 1/2" = 1'-0"


TRACKLESS AT 3-PANEL SLIDING DOOR
SURFACE MOUNTED TAPERED ALUMINUM FRAME
FINISHED FLOOR
ALUMINUM FRAME SLIDING DOOR (REF SCHEDULE FOR NUMBER OF PANELS)
FINISHED FLOOR

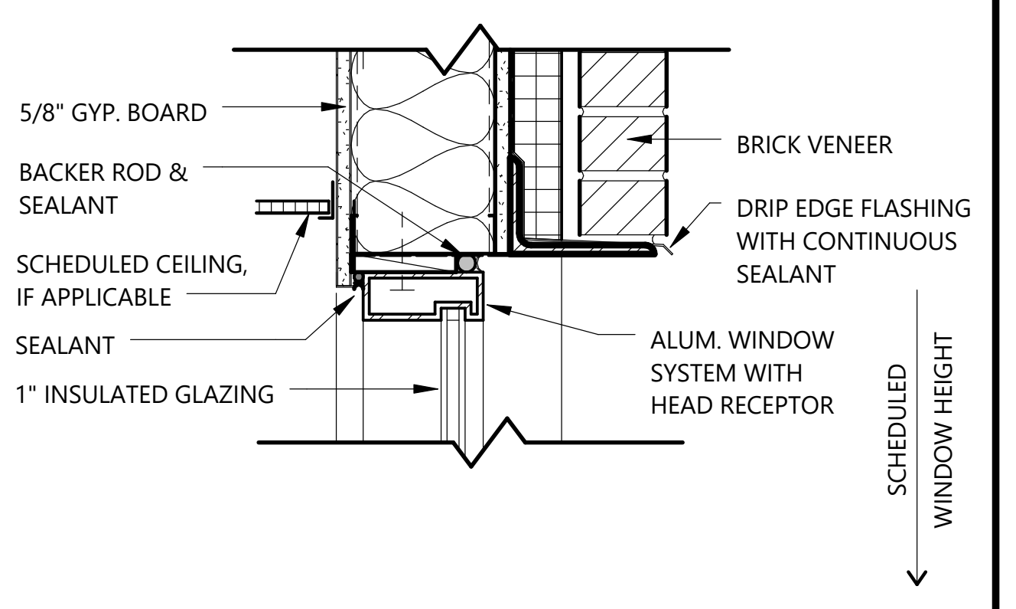
8 DOOR DETAIL - AL SLIDER SILL
SCALE: 1 1/2" = 1'-0"


TAPERED FRAME WHERE NO ADJACENT FLOOR FINISH
FINISHED FLOOR
INTERIOR
JAMB BEYOND
HM DOOR
1/2" MAX
SURFACE MOUNTED TAPERED STEEL FRAME PER APPROVED NOA (SLOPE = 1 IN 2)
EXTERIOR
SEALANT
1/2" EXPANSION MAT'L

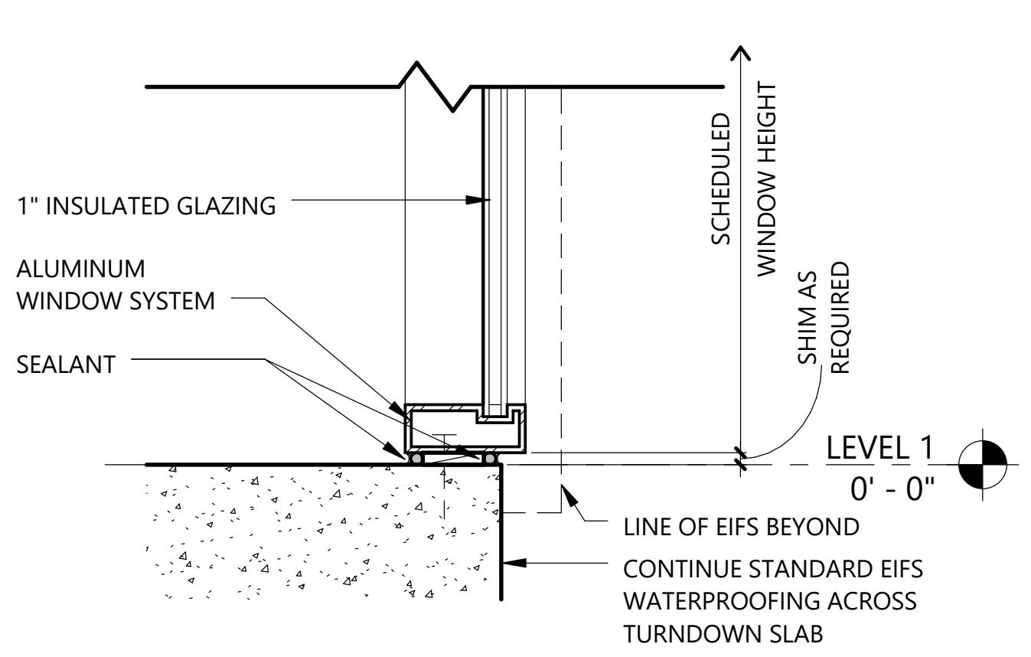
3 DOOR DETAIL - H.M. SILL (EXT)
SCALE: 1 1/2" = 1'-0"



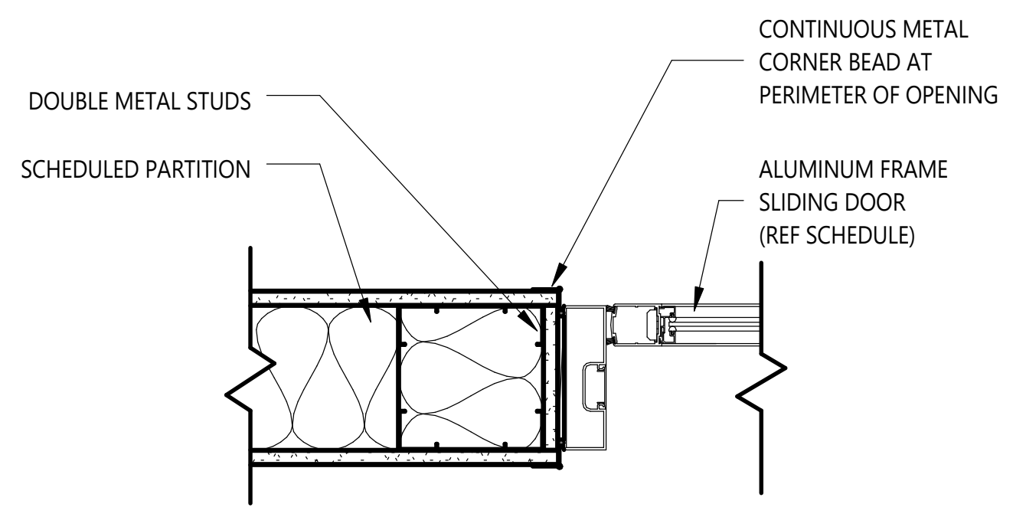
18 WINDOW DETAIL - TYPICAL JAMB (EXT.)
SCALE: 1 1/2" = 1'-0"


5/8" GYP. BOARD
BRICK VENEER
BACKER ROD & SEALANT
DRIP EDGE FLASHING WITH CONTINUOUS SEALANT
SCHEDULED CEILING, IF APPLICABLE
SEALANT
ALUM. WINDOW SYSTEM WITH HEAD RECEPTOR
1" INSULATED GLAZING
SCHEDULED WINDOW HEIGHT

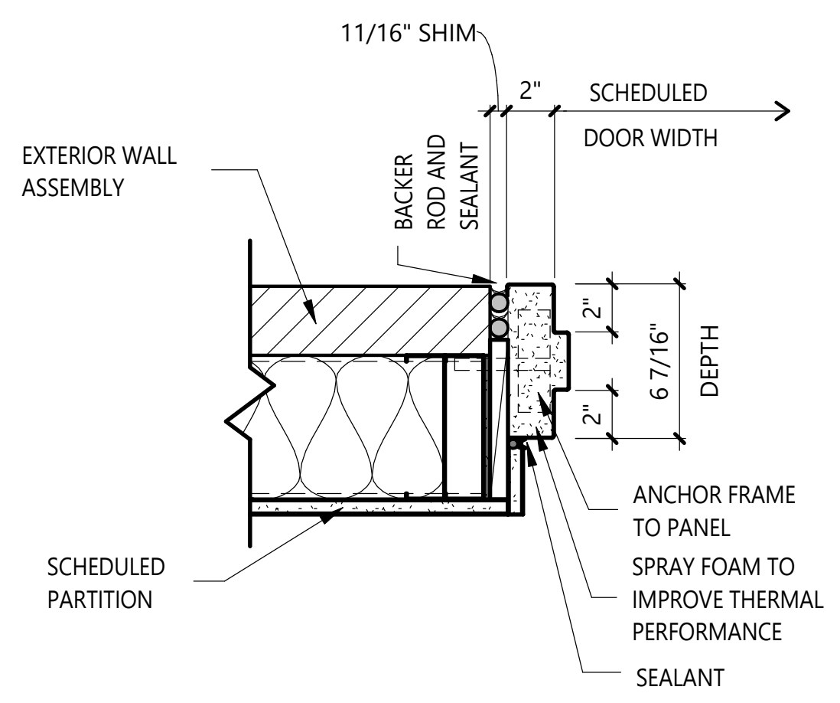
14 WINDOW DETAIL - TYPICAL HEAD (EXT.) BRICK
SCALE: 1 1/2" = 1'-0"



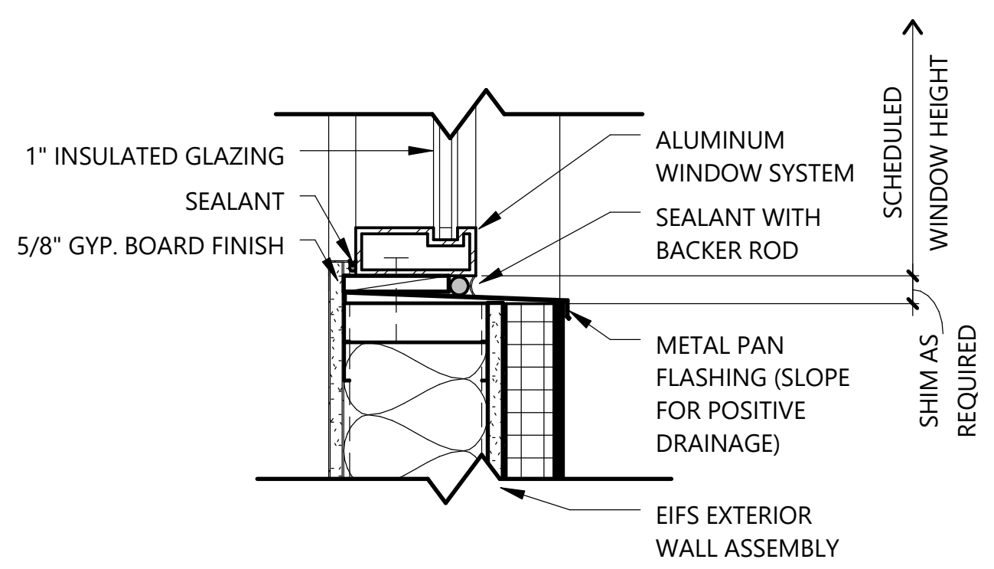
11 WINDOW DETAIL - SILL AT LEVEL 1 SLAB
SCALE: 1 1/2" = 1'-0"


CONTINUOUS METAL CORNER BEAD AT PERIMETER OF OPENING
DOUBLE METAL STUDS
SCHEDULED PARTITION
ALUMINUM FRAME SLIDING DOOR (REF SCHEDULE)

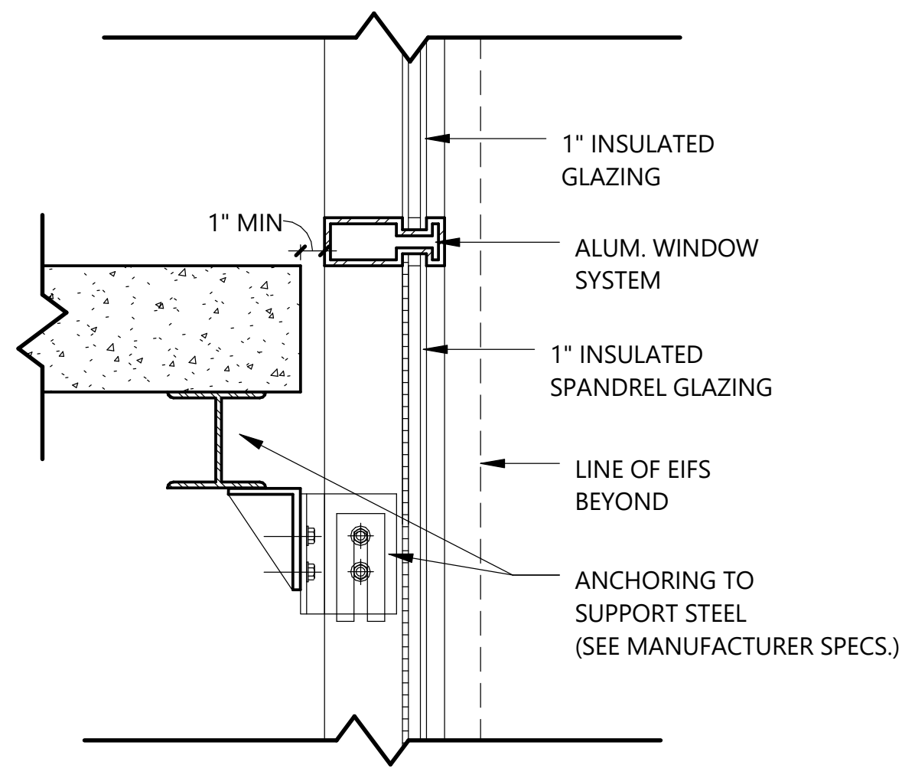
7 DOOR DETAIL - AL SLIDER JAMB
SCALE: 1 1/2" = 1'-0"



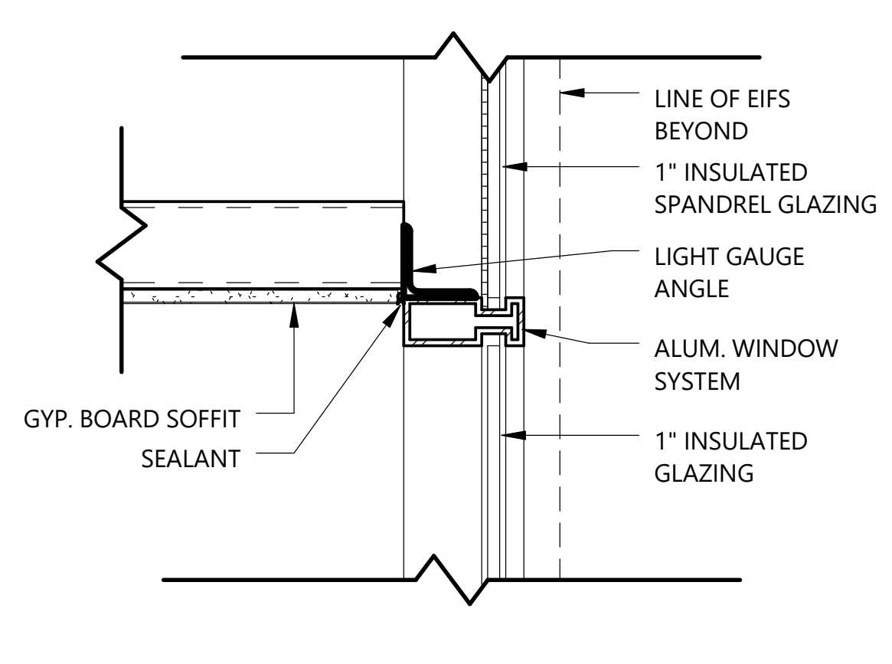
2 DOOR DETAIL - H.M. JAMB (EXT)
SCALE: 1 1/2" = 1'-0"



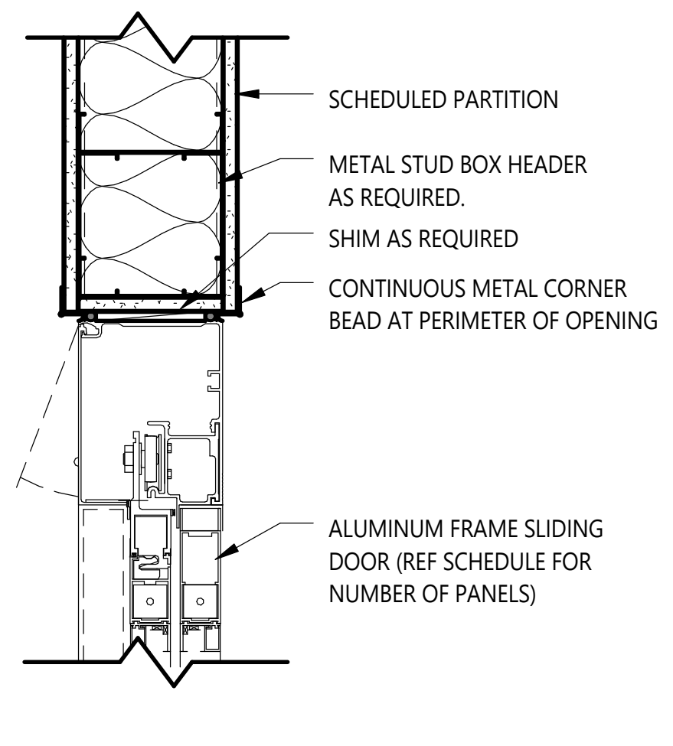
17 WINDOW DETAIL - TYPICAL SILL FLASHING (EIFS)
SCALE: 1 1/2" = 1'-0"


1" INSULATED GLAZING
1" MIN
ALUM. WINDOW SYSTEM
1" INSULATED SPANDREL GLAZING
LINE OF EIFS BEYOND
ANCHORING TO SUPPORT STEEL (SEE MANUFACTURER SPECS.)

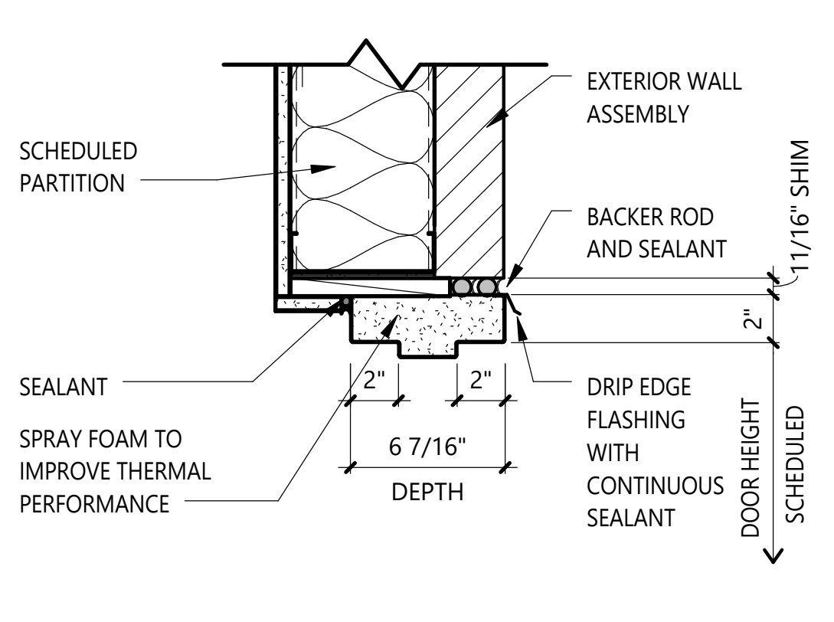
13 WINDOW - CEILING AT FLOOR LEVEL
SCALE: 1 1/2" = 1'-0"



10 WINDOW - CEILING AT SPANDREL
SCALE: 1 1/2" = 1'-0"


SCHEDULED PARTITION
METAL STUD BOX HEADER AS REQUIRED.
SHIM AS REQUIRED
CONTINUOUS METAL CORNER BEAD AT PERIMETER OF OPENING
ALUMINUM FRAME SLIDING DOOR (REF SCHEDULE FOR NUMBER OF PANELS)

6 DOOR DETAIL - AL SLIDER HEAD
SCALE: 1 1/2" = 1'-0"



1 DOOR DETAIL - H.M. HEAD (EXT)
SCALE: 1 1/2" = 1'-0"

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
THOMAS [illegible] DOOLEY
A-7733
REGISTERED ARCHITECT
5-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
DOOR & WINDOW DETAILS

SHEET
A603

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CEILING SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	LOCATION
CT1	CEILING TILE	ARMSTRONG	CALLA - WHITE	2' X 2'	CORRIDORS
WCP 1	WOOD CEILING PANEL	ARMSTRONG	CONSTANTS WALNUT	24" X 96"	ELEVATOR LOBBY CEILINGS (SEE DRAWINGS)
GYP.	GYPSUM BOARD CEILING	-	SEE FINISH PLANS	N/A	ELEVATOR LOBBY CEILINGS, ALCOVES
EXP.	EXPOSED CEILING	-	SEE FINISH PLANS	N/A	-

BASE SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	DESCRIPTION
B1	WALL BASE	JOHNSONITE	GREY 48	N/A	TOELESS (TO BE USED WITH CARPET)
PTB1	PORCELAIN TILE BASE	ATLAS CONCORDE	EON CORINTHIAN GRAY	11 3/4" X 23 5/8"	BATHROOMS ONLY

FLOORING SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	DESCRIPTION
CPT1	CARPET TILE	SHAW CONTRACT	MEMORY TILE RAINSTORM 48536	24" X 24" ASHLAR INSTALL	CORRIDORS,
PTF1	PORCELAIN TILE FLOOR	ATLAS CONCORDE	EON CORINTHIAN GRAY	23 5/8" X 23 5/8" BRICK INSTALL	LOBBY FLOORING, BATHROOM FLOORING
SC	SEALED CONCRETE	SHERWIN WILLIAMS	ARMORSEAL TREADPLEX SW7669 SUMMIT GRAY	N/A	HSKP. MECHANICAL, BACK OF HOUSE SPACES
SC*	SEALED CONCRETE, STAIR TREADS	SHERWIN WILLIAMS	ARMORSEAL TREADPLEX SW7669 SUMMIT GRAY	N/A	STAIRWELLS

DOOR LAMINATE SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	LOCATION
L1	LAMINATE	WILSONART	7997-38 EBONY RECON	N/A	INTERIOR DOORS

WALL FINISH SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	LOCATION
P1	WALL PAINT	SHERWIN WILLIAMS	SNOWBOUND SW7004	N/A	GENERAL FIELD COLOR
P2	WALL PAINT	SHERWIN WILLIAMS	GRAY CLOUDS SW7658	N/A	BATHROOM WALLS
PWT1	PORCELAIN WALL TILE	ATLAS CONCORDE	EON CARRARA (MATTE)	11 3/4" X 23 5/8" BRICK INSTALL	BATHROOMS, 5' MAX HEIGHT (FULL HEIGHT ON LAVATORY WALL)
PWT2	PORCELAIN WALL TILE	ATLAS CONCORDE	FRAY TATAMI COLD (MATTE)	11 3/4" X 11 3/4" BRICK INSTALL	BATHROOMS, ACCENT BAND,
WP1	WALL PROTECTION	INPRO	VELVET 0154 CLAM SHELL	0.060" THK. 4'-0" HIGH ALL AROUND	HSKP. ALL WALLS AROUND FLOOR SINK

CASEWORK SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	LOCATION
PL1	PLASTIC LAMINATE	WILSONART	PATTERN: EBONY RECON 7997 FINISH: 38	N/A	VERTICAL SURFACES
QZ1	QUARTZ SURFACE	CAMBRIA	COLOR: SHARPHAM 3CM THK. SLAB EDGE PROFILE: LEDGE	N/A	COUNTER-TOPS

PARTITION SCHEDULE

CODE	ITEM	MANUFACTURER	COLOR/FINISH	SIZE	LOCATION
RP	SERIES 400 FLOOR-MOUNTED OVERHEAD-BRACED RESTROOM PARTITIONS	BRADLEY	SATIN BRUSHED STAINLESS STEEL	N/A	RESTROOMS

GENERAL NOTES

1. ALL WORK SHALL BE GUARANTEED FROM DEFECT FOR ONE YEAR.
2. THE DRAWINGS ATTACHED HAVE BEEN DEVELOPED FROM RECORD DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. IN NO CASE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ARCHITECT/DESIGNER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CONFLICTS WITH DIMENSIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. REVIEW DRAWINGS FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
3. CAULK ALL PLUMBING FIXTURES, MILLWORK AND TRIM TO ADJACENT SURFACES. COLOR OF CAULK TO MATCH ADJACENT FINISH.
4. ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHOULD CHECK QUANTITIES AND DELIVERY DATES AS SOON AS BID IS AWARDED TO AVOID ANY RESELECTIONS OF MATERIAL.
5. THE GENERAL CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE DOCUMENTS AND FINISH PLANS AND SHALL AT ONCE REPORT TO THE ARCHITECT ANY ERROR. INCONSISTENCY OR OMISSION HE/SHE MAY DISCOVER.
6. FOR ALL PRODUCTS INSTALLED, NOTE INDUSTRY STANDARDS AND MANUFACTURER SPECIFICATIONS FOR INSTALLATION.
7. FINAL CLEANUP, THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT SCHEDULE TO MAKE CERTAIN THAT ALL HOUSEKEEPING CLEANUP ITEMS ARE DONE PRIOR TO THE MOVE-IN. THIS WOULD INCLUDE WIPING DOWN, CLEANING GLASS, WASHING, WAXING, VACUUMING, OR ANY OTHER SERVICES WHICH WOULD BE PERFORMED UNDER THE CONTRACTOR'S MAINTENANCE CLEANING PROGRAMS. UPON COMPLETION OF WORK, ALL WASTE MATERIAL, RUBBISH, TOOLS, CONSTRUCTION, EQUIPMENT MACHINERY, AND OTHER SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE.
8. NO SUBSTITUTIONS OF SPECIFIED FINISHES WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT/DESIGNER.
9. ALL INTERIOR FLOORING MEETS CLASS 1 AND CLASS 2 FLAME SPREAD RATINGS.
10. REFER TO ELEVATIONS, REFLECTED CEILING PLANS, AND ENLARGED PLANS FOR CLARIFICATION OF FINISHES.
11. REFER TO FINISH SCHEDULES FOR CODE DEFINITIONS.

CEILING NOTES

1. ALL GYPSUM BOARD CEILINGS SCHEDULED TO BE PAINTED ARE TO BE SNOWBOUND.
2. PAINT UNDERSIDE OF SOFFIT TO MATCH WALL COLOR U.N.O.
3. PAINT VERTICAL FACE OF SOFFIT TO MATCH ADJACENT WALL U.N.O.

FINISH NOTES

1. REFER TO ATTACHED DRAWINGS FOR FURTHER CLARIFICATION OF WORK TO BE PERFORMED AND/OR FOR FLOOR PLAN LAYOUT OF FACILITY.
2. CONTRACTOR IS TO PROVIDE SURPLUS STOCK AS NOTED BELOW:
3. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ARCHITECT/DESIGNER FOR APPROVAL PRIOR TO FABRICATING OR PURCHASING MATERIALS. ALL SUBMITTALS SHALL BE CLEARLY MARKED WITH THE MANUFACTURER, STYLE, COLOR AND FINISH MATERIAL LEGEND CODE. ALL PAINT SUBMITTALS MUST INDICATE PAINT COLOR FORMULA AS WELL AS STORE LOCATION WHERE PAINT IS TO BE PURCHASED. IF SHEET VINYL FLOORING IS USED, A SEAMING DIAGRAM MUST BE SUBMITTED AND APPROVED BY THE ARCHITECT/DESIGNER.
4. SUBMIT SAMPLES OF ALL OUTLETS, SWITCH PLATES, GRILLS, ETC TO INTERIOR DESIGNER FOR APPROVAL. BEFORE INSTALLATION COLOR TO MATCH ADJACENT WALL COLOR OR FINISH.

PAINTING NOTES

1. PRIOR TO THE APPLICATION OF PAINT, THE CONTRACTOR SHALL REPAIR NEW OR EXISTING SURFACES BY PATCHING, SMOOTHING, AND SANDING AS NEEDED TO ACHIEVE A SURFACE ACCEPTABLE FOR THE APPLICATION OF NEW FINISH. PREPARE DOOR FRAMES OR METAL SURFACES BY SANDING CHIPS, BURRS, FILLING DENTS AND CAULKING CRACKS AT CORNERS AS REQUIRED.
2. ONLY IF APPLICABLE - MISCELLANEOUS METAL (RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC.) LOCATED ON ALL SURFACES IS TO BE PAINTED TO MATCH ADJACENT WALL COLOR.
3. CONTRACTOR TO SUBMIT TWO PAINT SAMPLES OF EACH PAINT COLOR IN THE APPROPRIATE FINISH TO THE DESIGNER FOR APPROVAL PRIOR TO PURCHASING PAINT. SAMPLES ARE TO BE PAINTED ON A 8 1/2" X 11" POSTER BOARD. EACH SAMPLE SHALL HAVE THE COLOR "FORMULA" CLEARLY INDICATED ON IT AS WELL AS THE STORE LOCATION WHERE THE PAINT IS TO BE PURCHASED.
4. WHEN SPECIFIED IN THE FINISH PLAN, PROVIDE PAINT FINISHES AS NOTED FOR THE SURFACES LISTED BELOW. REFER TO WRITTEN ARCHITECTURAL PAINT SPECIFICATIONS SECTION FOR FURTHER INFORMATION REGARDING PRODUCTS, PRIMERS, ETC. IF SURFACES EXIST ON THE JOB THAT ARE NOT LISTED, CONTACT THE ARCHITECT/DESIGNER LISTED IN THE PROJECT DIRECTORY.

FLOORING NOTES

1. ALL REDUCER STRIPS AND OTHER THRESHOLDS TO BE LOCATED AT CENTERLINE AT DOOR WHEN IN CLOSED POSITION.
2. NEW TRANSITIONS STRIPS TO BE PROVIDED WITHIN PROJECT AREA AS NOTED BELOW. REFER TO MATERIAL FINISH LEGEND FOR MANUFACTURER AND COLOR TO BE UTILIZED ON THIS PROJECT.
3. WHERE NEW FLOOR COVERING AND/OR BASE IS SPECIFIED, THE SAME FLOOR COVERING AND/OR BASE SHALL EXTEND INTO ANY CLOSETS, STORAGE AREAS, ETC. ADJACENT TO THAT SPACE UNLESS OTHERWISE NOTED.
4. APPLY MANUFACTURER RECOMMENDED SEALER TO SEAMS IMMEDIATELY AFTER INSTALLATION.

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19

TITLE
FINISH SPECS AND GENERAL NOTES

SHEET
F000

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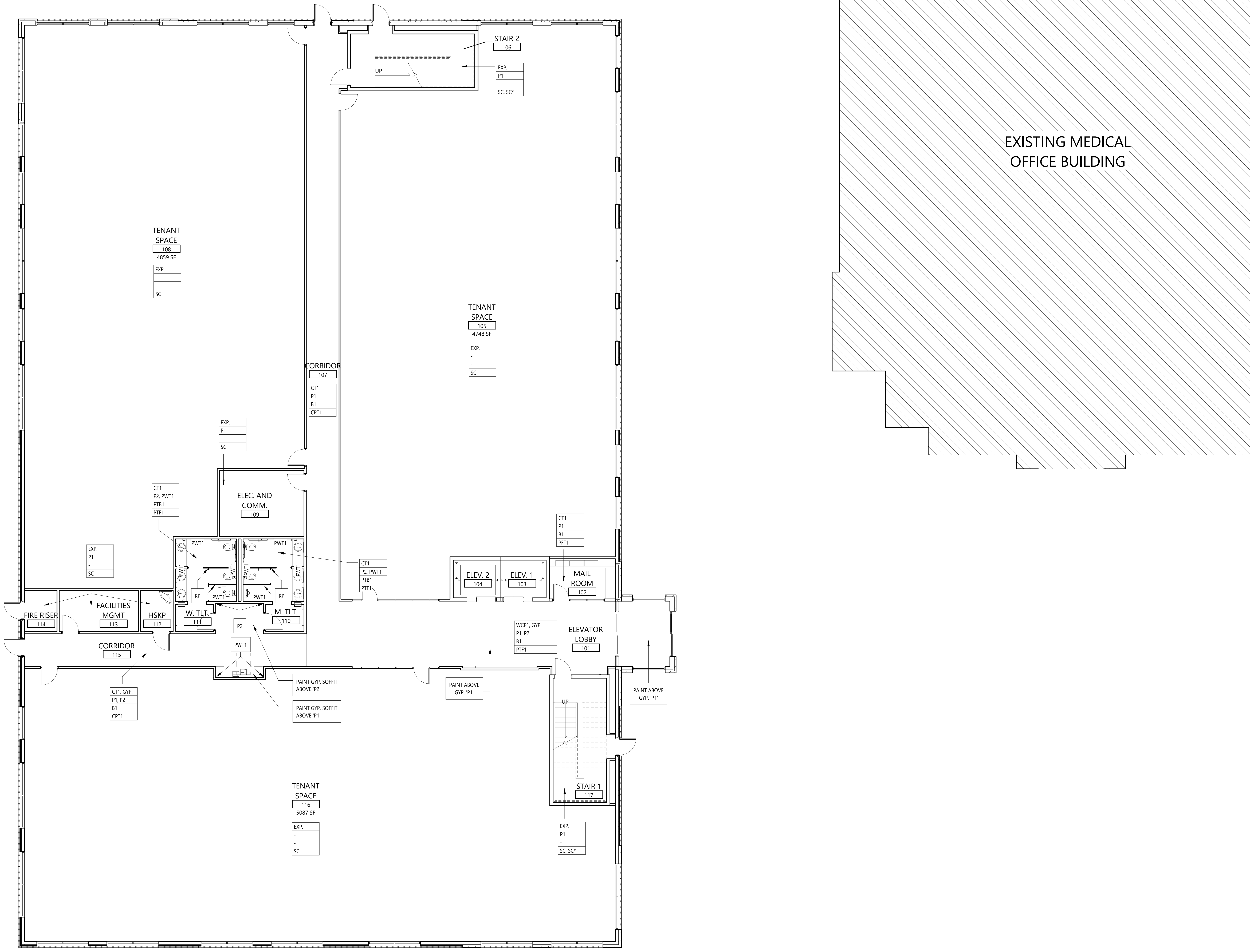

1 FINISH PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET A402 FOR ELEVATOR LOBBY DESIGN AND FINISHES.

2. PWT1 IS APPLIED AT 5'-0" MAX HEIGHT NEAR ALL PLUMBING FIXTURES UNLESS OTHERWISE NOTED.

FINISH LEGEND

CT1 — CEILING FINISH
PT1 — WALL FINISH
B1 — BASE
C1 — FLOORING

FINISH SCHEDULE

ROOM #	ROOM	CEILING FINISH	WALL FINISH	FLOORING
101	ELEVATOR LOBBY	WCP1, GYP.	P1, P2	PTF1
102	MAIL ROOM	CT1	P1	PTF1
105	TENANT SPACE	EXP.	-	SC
106	STAIR 2	EXP.	P1	SC, SC*
107	CORRIDOR	CT1	P1	CPT1
108	TENANT SPACE	EXP.	-	SC
109	ELEC. & COMM.	EXP.	P1	SC
110	MEN'S TLT.	CT1	PT2, PWT1	PTF1
111	WOMEN'S TLT.	CT1	PT2, PWT1	PTF1
112	HOUSEKEEPING	EXP.	P1	SC
113	FACILITIES MGMT.	EXP.	P1	SC
114	FIRE RISER	EXP.	P1	SC
115	CORRIDOR	CT1, GYP.	P1, P2	CPT1
116	TENANT SPACE	EXP.	-	SC
117	STAIR 1	EXP.	PT1	SC, SC*

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
Thomas Alan Dooley
2-15-19

WILLIAM E. HEREFORD III

02/15/19

DATES OF ISSUANCE
△1
△
△

TITLE
FINISH PLAN - LEVEL 1

SHEET
F111

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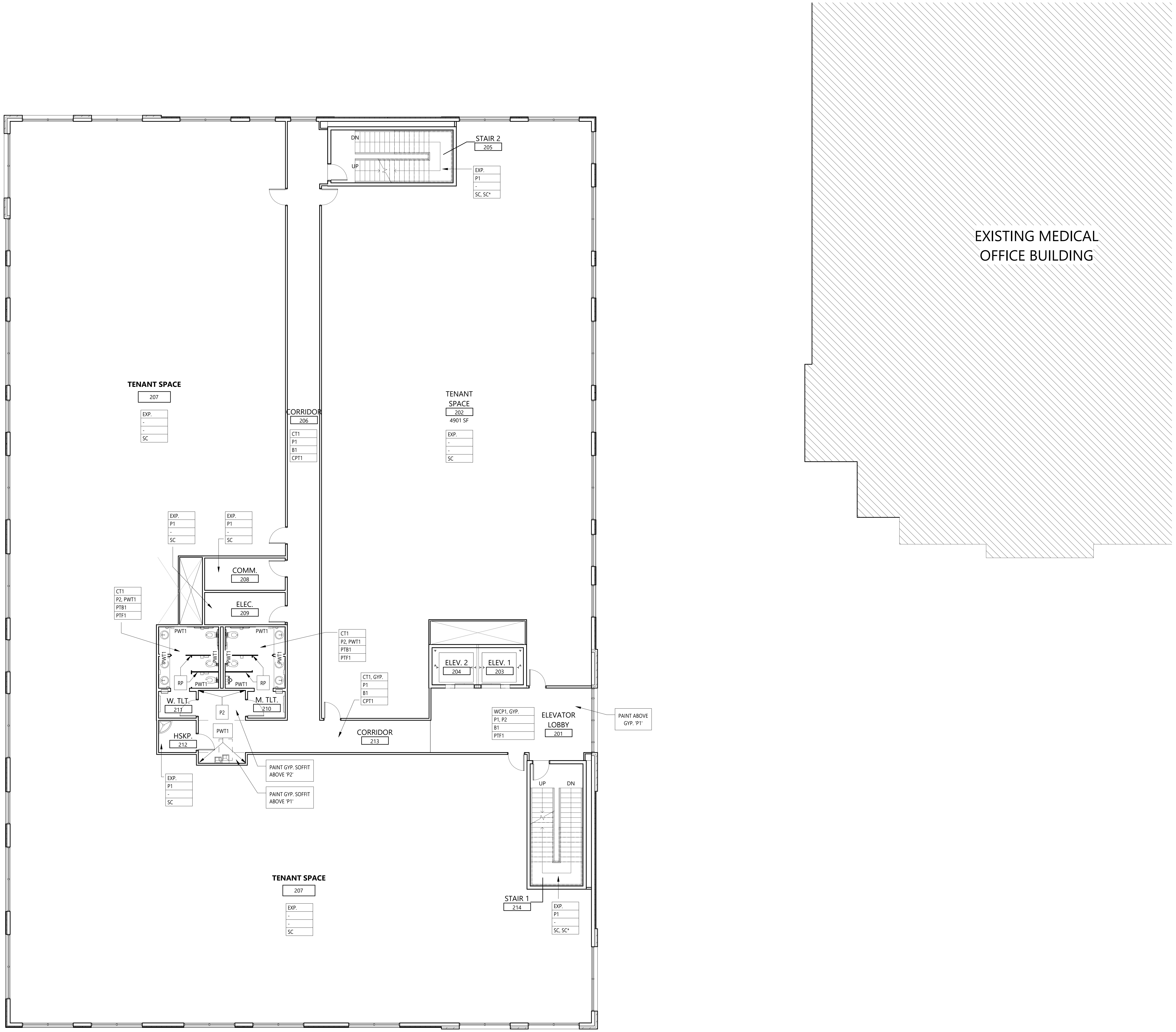

1 FINISH PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, PAINT ALL WALLS "P1" FINISH.

2. PWT1 IS APPLIED AT 5'-0" MAX HEIGHT NEAR ALL PLUMBING FIXTURES UNLESS OTHERWISE NOTED.

FINISH LEGEND

CT1 — CEILING FINISH
PT1 — WALL FINISH
B1 — BASE
C1 — FLOORING

FINISH SCHEDULE

ROOM #	ROOM NAME	CEILING FINISH	WALL FINISH	FLOORING
201	ELEVATOR LOBBY	WCP1, GYP.	P1, P2	PTF1
202	TENANT SPACE	EXP.	-	SC
205	STAIR 2	EXP.	P1	SC, SC*
206	CORRIDOR	CT1	P1	CPT1
207	TENANT SPACE	-	-	SC
208	ELEC. ROOM	EXP.	P1	SC
209	COMM. ROOM	EXP.	P1	SC
210	MEN'S TLT	CT1	P2, PWT1	PTF1
211	WOMEN'S TLT	CT1	P2, PWT1	PTF1
212	HOUSEKEEPING	EXP.	P1	SC
213	CORRIDOR	CT1, GYP.	P1, P2	CPT1
214	STAIR 1	EXP.	P1	SC, SC*

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2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE 02/15/19
1

TITLE FINISH PLAN - LEVEL 2

SHEET F112

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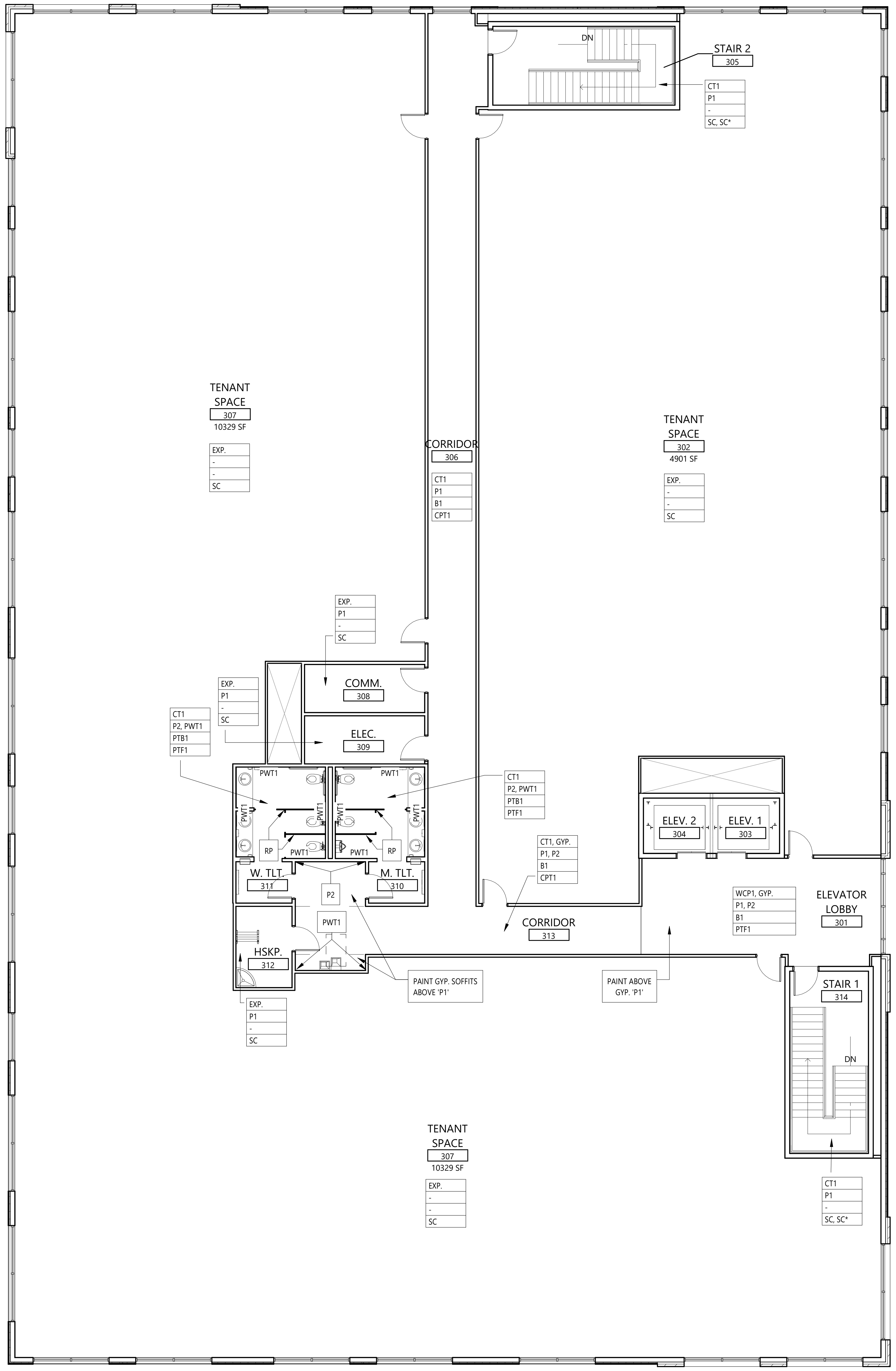

1 FINISH PLAN - LEVEL 3
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, PAINT ALL WALLS "P1" FINISH.

2. PWT1 IS APPLIED AT 5'-0" MAX HEIGHT NEAR ALL PLUMBING FIXTURES UNLESS NOTED OTHERWISE.

FINISH LEGEND

CT1 ← CEILING FINISH
PT1 ← WALL FINISH
B1 ← BASE
C1 ← FLOORING

FINISH SCHEDULE

ROOM #	ROOM NAME	CEILING FINISH	WALL FINISH	FLOORING
301	ELEVATOR LOBBY	WCP1, GYP.	P1, P2	PTF1
302	TENANT SPACE	EXP.	-	SC
305	STAIR 2	CT1	P1	SC, SC*
306	CORRIDOR	CT1	P1	CPT1
307	TENANT SPACE	EXP.	-	SC
308	ELEC. ROOM	EXP.	P1	SC
309	COMM. ROOM	EXP.	P1	SC
310	MEN'S TLT	CT1	P2, PWT1	PTF1
311	WOMEN'S TLT	CT1	P2, PWT1	PTF1
312	HOUSEKEEPING	EXP.	P1	SC
313	CORRIDOR	CT1, GYP.	P1, P2	CPT1
314	STAIR 1	CT1	P1	SC, SC*

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PROJECT #
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STATUS
CONSTRUCTION DOCUMENTS

THOMAS ALAN DOOLEY
A-7733
2-15-19

WILLIAM E. HEREFORD III

DATES OF ISSUANCE
02/15/19
1

TITLE
FINISH PLAN - LEVEL 3

SHEET
F113

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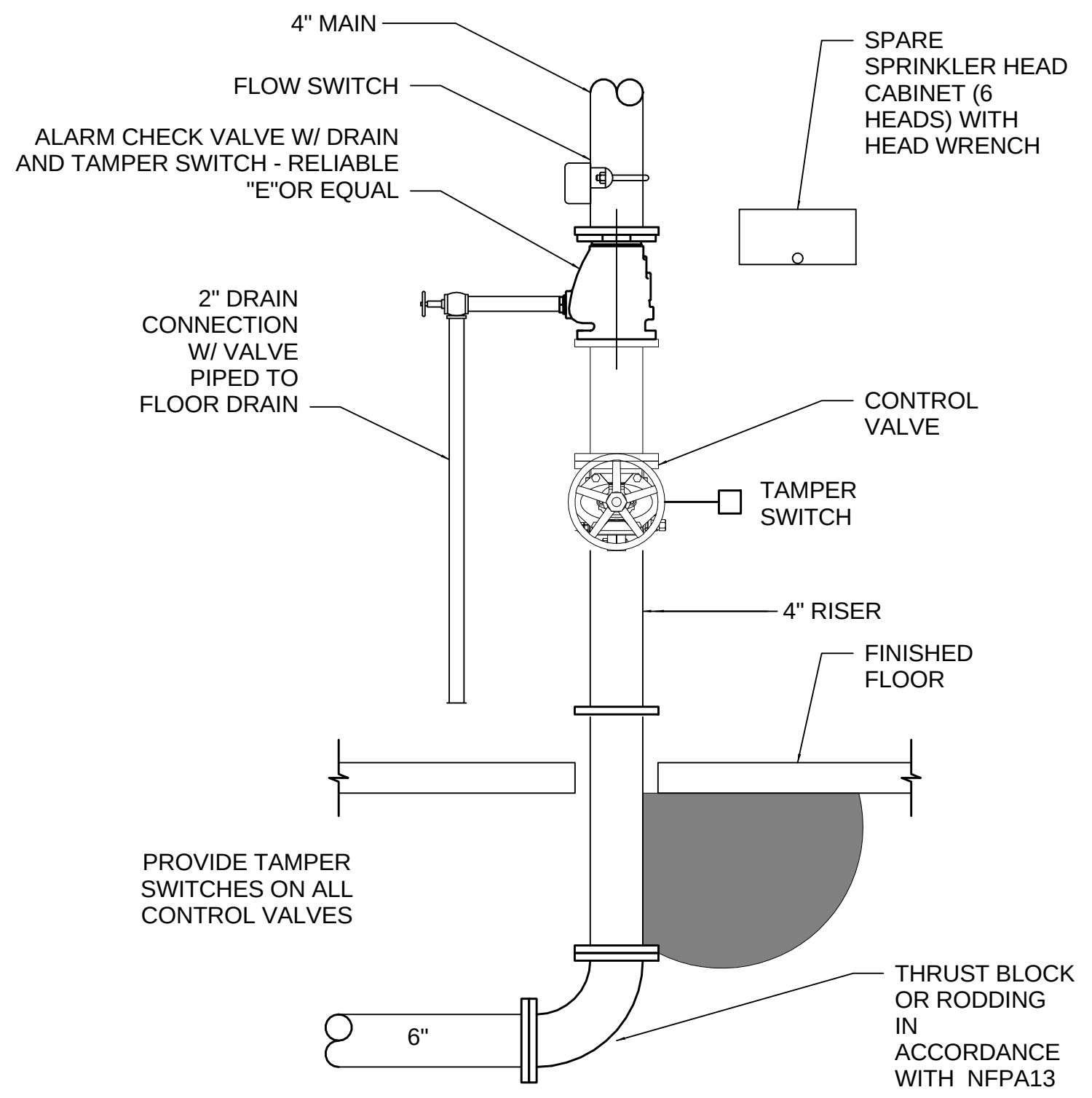
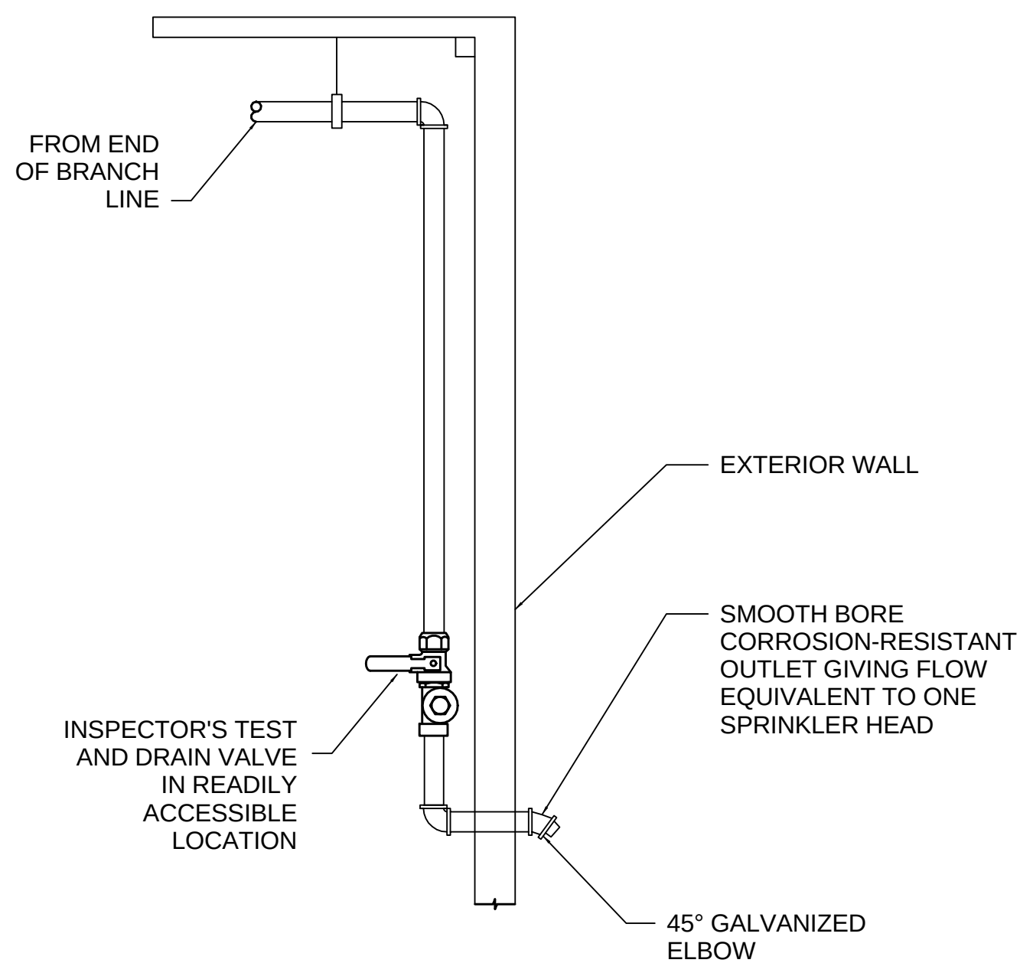
2/18/2019 5:51:42 PM


4" MAIN
FLOW SWITCH
ALARM CHECK VALVE W/ DRAIN AND TAMPER SWITCH - RELIABLE "E"OR EQUAL
2" DRAIN CONNECTION W/ VALVE PIPED TO FLOOR DRAIN
SPARE SPRINKLER HEAD CABINET (6 HEADS) WITH HEAD WRENCH
CONTROL VALVE
TAMPER SWITCH
4" RISER
FINISHED FLOOR
PROVIDE TAMPER SWITCHES ON ALL CONTROL VALVES
6"
THRUST BLOCK OR RODDING IN ACCORDANCE WITH NFPA13

WET SPRINKLER RISER DETAIL

SCALE: NO SCALE

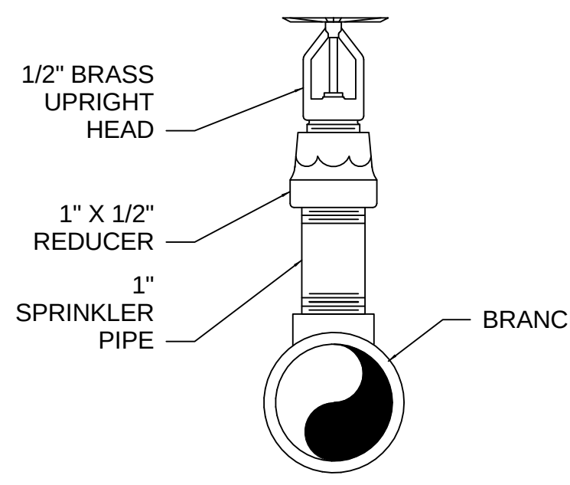
1


FROM END OF BRANCH LINE
EXTERIOR WALL
SMOOTH BORE CORROSION-RESISTANT OUTLET GIVING FLOW EQUIVALENT TO ONE SPRINKLER HEAD
INSPECTOR'S TEST AND DRAIN VALVE IN READILY ACCESSIBLE LOCATION
45° GALVANIZED ELBOW

TEST CONNECTION DETAIL

SCALE: NO SCALE

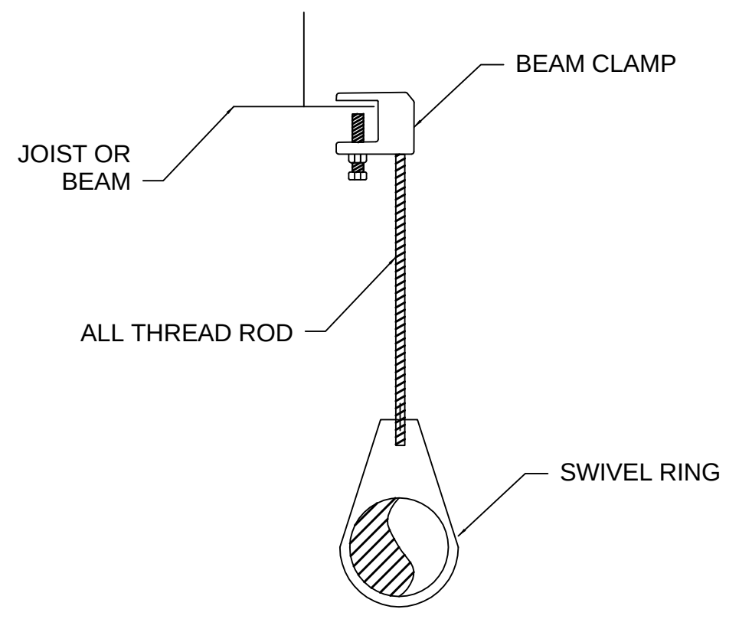
2



SPRIG UP DETAIL

SCALE: NO SCALE

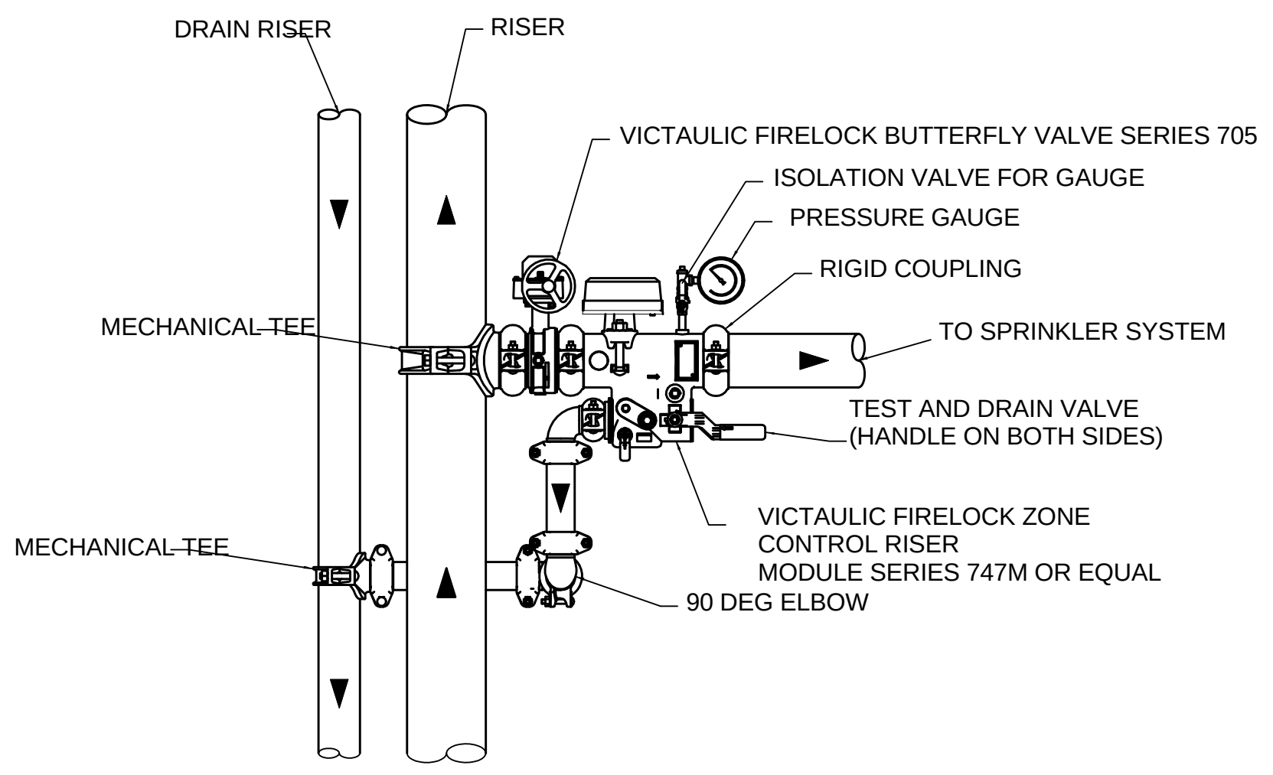
3



TYPICAL JOIST HANGER

SCALE: NONE

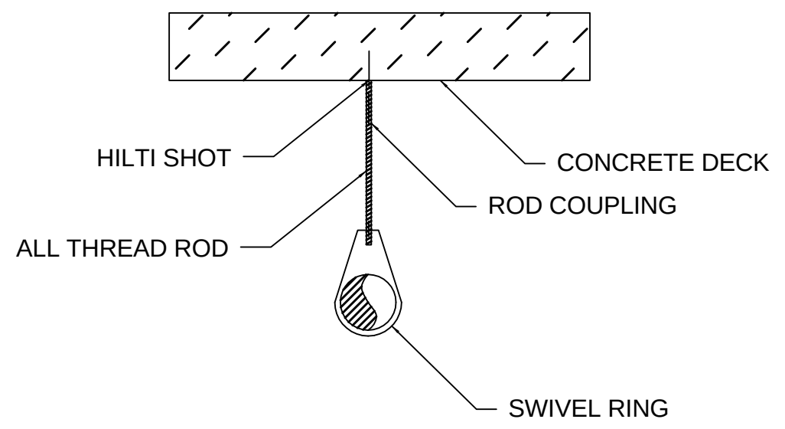
4


DRAIN RISER
RISER
VICTAULIC FIRELOCK BUTTERFLY VALVE SERIES 705
ISOLATION VALVE FOR GAUGE
PRESSURE GAUGE
RIGID COUPLING
MECHANICAL TEE
TO SPRINKLER SYSTEM
TEST AND DRAIN VALVE (HANDLE ON BOTH SIDES)
VICTAULIC FIRELOCK ZONE CONTROL RISER MODULE SERIES 747M OR EQUAL
MECHANICAL TEE
90 DEG ELBOW

ZONE CONTROL VALVE DETAIL

SCALE: NO SCALE

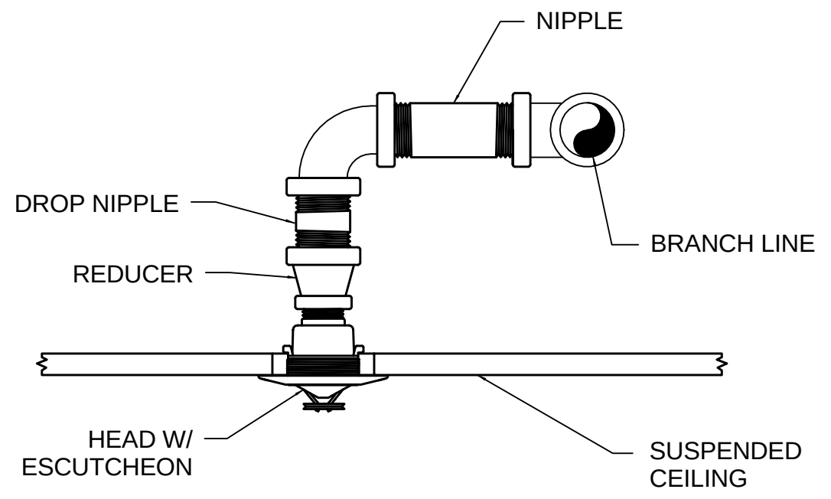
5



TYPICAL CONCRETE HANGER

SCALE: NONE

6



ARMOVER DETAIL

SCALE: NONE

7

SEE SHEETS M202 AND M203 FOR FIRE STOP DETAILS OF PIPE PENETRATIONS

8

Pressure / Flow Summary - STANDARD

Power Management Corporation
17003 - North Alabama Medical Center

Page 2
Date 08-22-17

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
1A	41.0	5.6	11.21	na	18.75	0.15	125	7.0
1B	41.0	5.6	12.94	na	20.15	0.15	125	7.0
1C	41.0	5.6	15.17	na	21.81	0.15	125	7.0
1	40.0		18.25	na				
2A	41.0	5.6	11.7	na	19.15	0.15	125	7.0
2B	41.0	5.6	13.5	na	20.57	0.15	125	7.0
2C	41.0	5.6	15.81	na	22.27	0.15	125	7.0
2	40.0		18.99	na				
3A	41.0	5.6	12.52	na	19.82	0.15	125	7.0
3B	41.0	5.6	14.44	na	21.28	0.15	125	7.0
3C	41.0	5.6	16.9	na	23.02	0.15	125	7.0
3	40.0		20.26	na				
4A	41.0	5.6	13.23	na	20.37	0.15	125	7.0
4B	41.0	5.6	15.25	na	21.87	0.15	125	7.0
4C	41.0	5.6	17.84	na	23.65	0.15	125	7.0
4	40.0		21.36	na				
5	40.0		22.84	na				
6	15.0		50.59	na				
7	15.0		52.84	na				
8	15.0		57.82	na				
9	-3.0		66.91	na				
TEST	1.0		65.6	na	250.0			

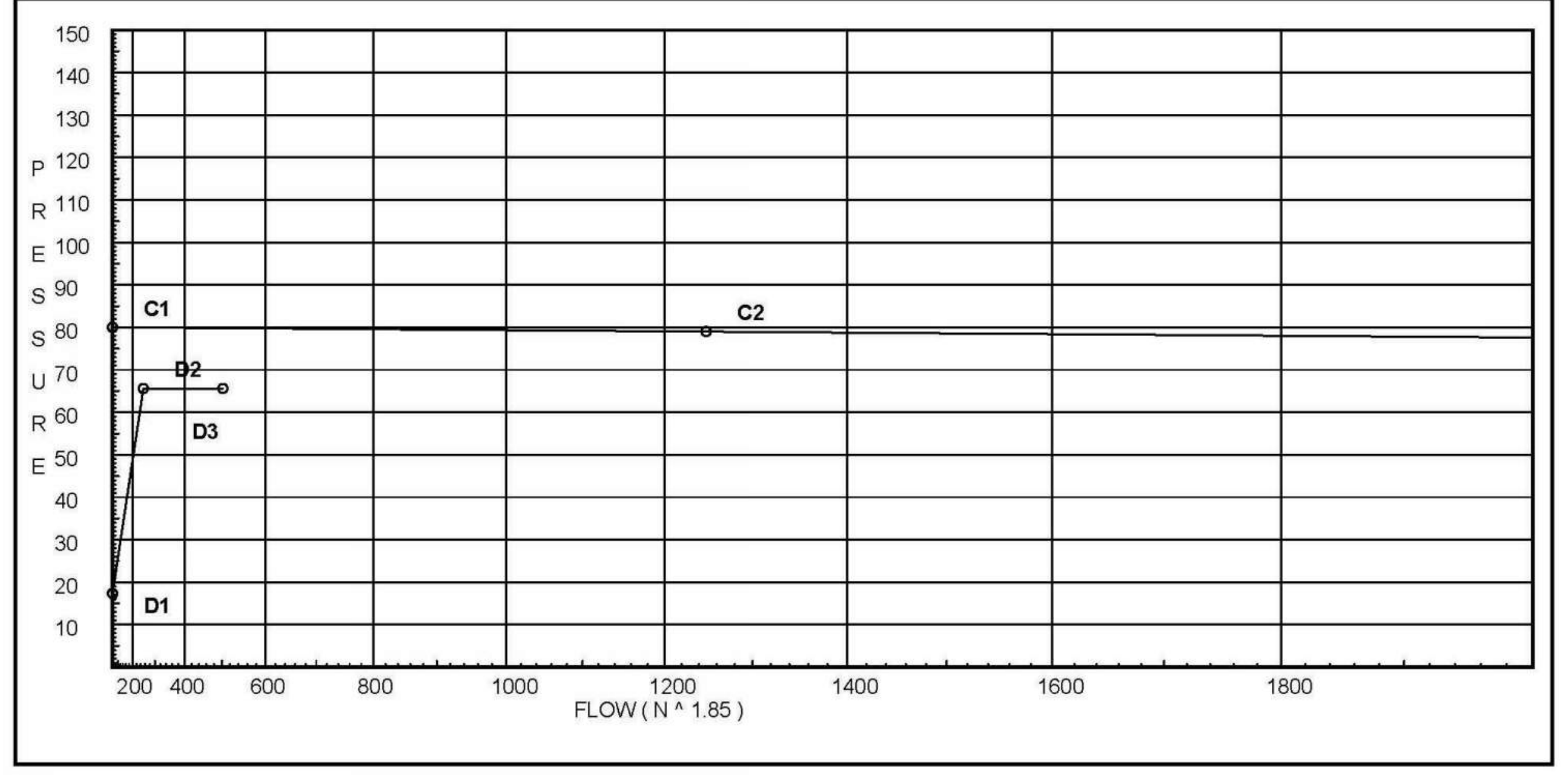
Water Supply Curve C

Power Management Corporation
17003 - North Alabama Medical Center

Page 1
Date 08-22-17

City Water Supply:
C1 - Static Pressure : 80
C2 - Residual Pressure: 79
C2 - Residual Flow : 1248

Demand:
D1 - Elevation : 17.324
D2 - System Flow : 252.71
D2 - System Pressure : 65.600
Hose (Demand) : 250
D3 - System Demand : 502.71
Safety Margin : 14.214



Computer Programs by Hydratec Inc. Route 111 Windham N.H. USA 03087

FLOW DATA

HYDRANT LOCATION	NORTH OF HCA @ 2100 SE BLUE PKWY
TESTED BY	CITY OF LEE'S SUMMIT
DATE/TIME OF TEST	07/24/2017
STATIC (PSI)	79 PSI
RESIDUAL (PSI)	79 PSI
FLOW (GPM)	1,363 GPM
TEST ELEVATION	1,040

WET SYSTEM DEMAND

HAZARD	ORDINARY I
DENSITY/AREA	0.15/1,500
CONSTRUCTION	NONCOMBUSTIBLE
CALCULATION AREA	1,500 SQ FT
NUMBER OF HEADS	12
SIZING METHOD	DENSITY/AREA
HOSE DEMAND	250

SPRINKLER LEGEND

SYMBOL	SYSTEM	MANUFACTURER	MODEL	SIZE	TEMP	FINISH	POSITION	COVERAGE
◉	WET	RELIABLE	F1	1/2"	155°	CHROME	FULLY-RECESSED	STANDARD
●	WET	RELIABLE	G4	1/2"	155°	MATCH ARCH	CONCEALED	STANDARD
○	WET	RELIABLE	F1	1/2"	155°	BRASS	UPRIGHT	STANDARD
◁	WET	RELIABLE	F1	1/2"	155°	BRASS	SIDEWALL	STANDARD

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
───	FIRE PROTECTION PIPE
⬠ #	HYDRAULIC CALCULATION NODE
⊥○	SHUT-OFF VALVE
⋈	OS&Y VALVE
⋈	ZONE CONTROL VALVE
A/S	AUTOMATIC SPRINKLER SYSTEM

DESIGN PERAMETERS

DESCRIPTION	OCCUPANCY CLASS.	SYSTEM TYPE	DENSITY/AREA	HOSE ALLOWANCE (GPM)
FUTURE TENANT SPACE	LIGHT HAZARD	WET	0.1/1,500	100
STORAGE, MECH, ELEC, ETC.	ORDINARY HAZARD I	WET	0.15/1,500	250
RESTROOMS, ETC.	LIGHT HAZARD	WET	0.1/1,500	100

FIRE PROTECTION SHEET INDEX

Sheet Number	Sheet Name
FP001	LEGEND & SCHEDULE - FIRE PROTECTION
FP111	FIRST FLOOR PLAN - FIRE PROTECTION
FP112	SECOND FLOOR PLAN - FIRE PROTECTION
FP113	THIRD FLOOR PLAN - FIRE PROTECTION

PMC POWER MANAGEMENT CORPORATION
Consulting Engineers
60 MUSIC SQUARE EAST, STE 300
NASHVILLE, TN 37203
www.powermgmt.com
615.383.6949
PROJECT #: 16066
DESIGNER: JMG ENGINEER: GHA

HEREFORD · DOOLEY
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WWW.HDARCHITECTS.COM

PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER PE-2007009102
2-15-19
ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE
LEGEND & SCHEDULE - FIRE PROTECTION

SHEET
FP001

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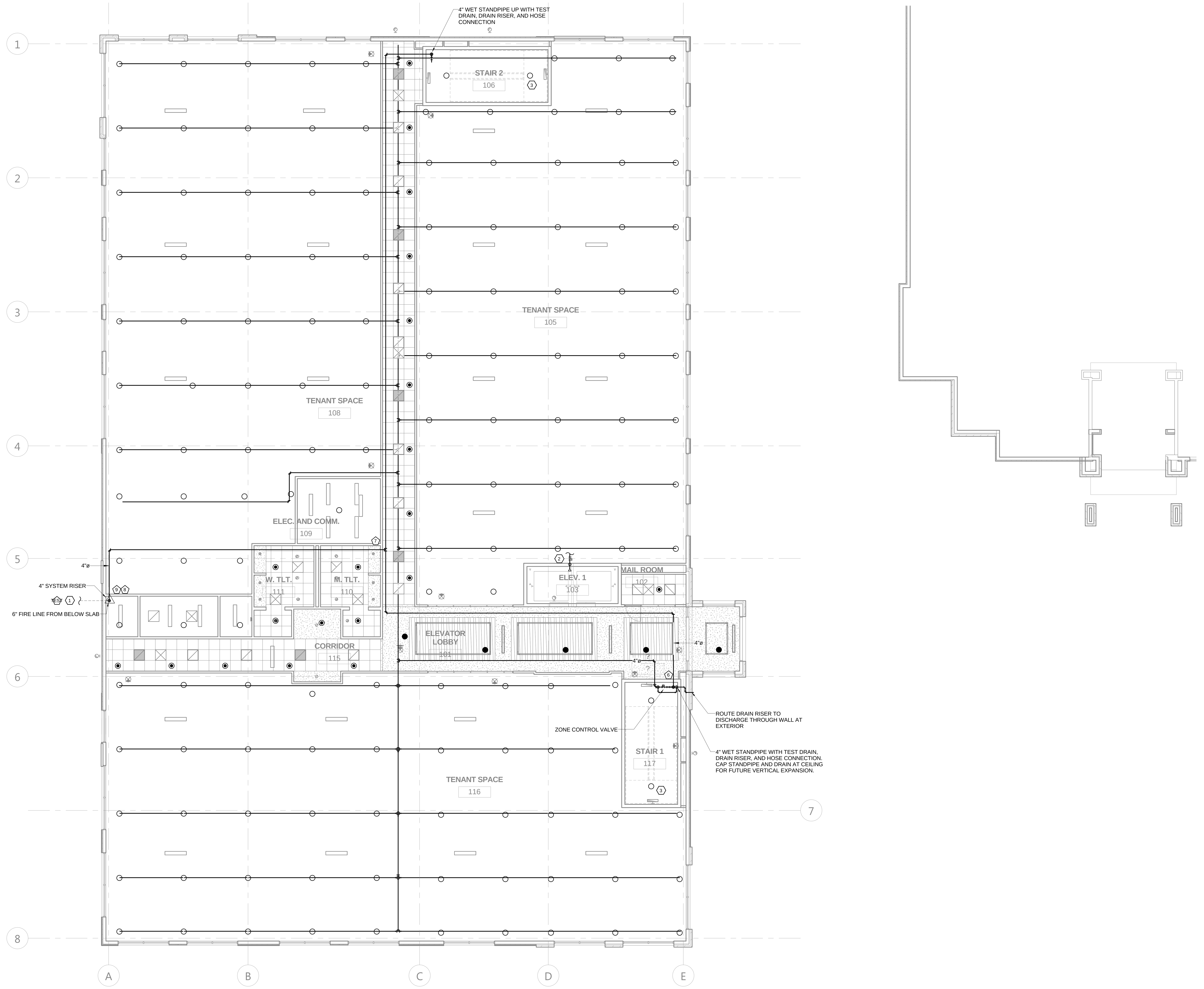
4" WET STANDPIPE UP WITH TEST DRAIN, DRAIN RISER, AND HOSE CONNECTION
STAIR 2
106
3
TENANT SPACE
105
TENANT SPACE
108
ELEC. AND COMM.
109
7
2
ELEV. 1
103
MAIL ROOM
102
W. TLT.
111
M. TLT.
110
4"ø
4" SYSTEM RISER
9
8
TEST
1
6" FIRE LINE FROM BELOW SLAB
CORRIDOR
115
ELEVATOR LOBBY
101
4"ø
4"ø
6
ZONE CONTROL VALVE
ROUTE DRAIN RISER TO DISCHARGE THROUGH WALL AT EXTERIOR
4" WET STANDPIPE WITH TEST DRAIN, DRAIN RISER, AND HOSE CONNECTION. CAP STANDPIPE AND DRAIN AT CEILING FOR FUTURE VERTICAL EXPANSION.
STAIR 1
117
3
TENANT SPACE
116
1
2
3
4
5
6
7
8
A
B
C
D
E

NORTH

1 01 - FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL A 100% HYDRAULICALLY CALCULATED AUTOMATIC SPRINKLER SYSTEM AS SPECIFIED FOR THE ADDITION.

2. THE SYSTEM SHALL BE INSTALLED TO N.F.P.A. 13, AND STATE AND LOCAL CODES AND REQUIREMENTS.

3. CONTRACTOR SHALL INSTALL DRAIN VALVE AND TEST CONNECTIONS AS REQUIRED AND SHALL BE ROUTED OUTSIDE OF BUILDING.

4. CONTRACTOR SHALL INSTALL SPRINKLER SYSTEM AS SPECIFIED AND NO PART OF SECTION OF N.F.P.A. 13 OR 14 SHALL BE VIOLATED.

5. ALL WORK SHALL BE PROVIDED BY A CURRENTLY LICENSED CONTRACTOR LICENSED TO INSTALL FIRE SUPPRESSION SYSTEM.

6. ALL DRAWINGS AND CALCULATIONS SHALL BE PERFORMED BY A CURRENTLY LICENSED MISSOURI PROFESSIONAL ENGINEER OR NICET LEVEL III FIRE PROTECTION DESIGNER.

PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
♦—♦—♦	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES:

1. SEE CIVIL SITE PLAN FOR CONTINUATION OF 6" FIRE MAIN AND LOCATION OF FDC, PIV, AND DOUBLE CHECK VALVE ASSEMBLY.

2. PROVIDE SIDEWALL HEAD OVER SUMP PIT WITH SEPARATE ISOLATION VALVE.

3. PROVIDE UPRIGHT SPRINKLER HEAD UNDER STAIR LANDING.

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2-15-19
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02/15/19

TITLE
FIRST FLOOR PLAN - FIRE PROTECTION

SHEET
FP111

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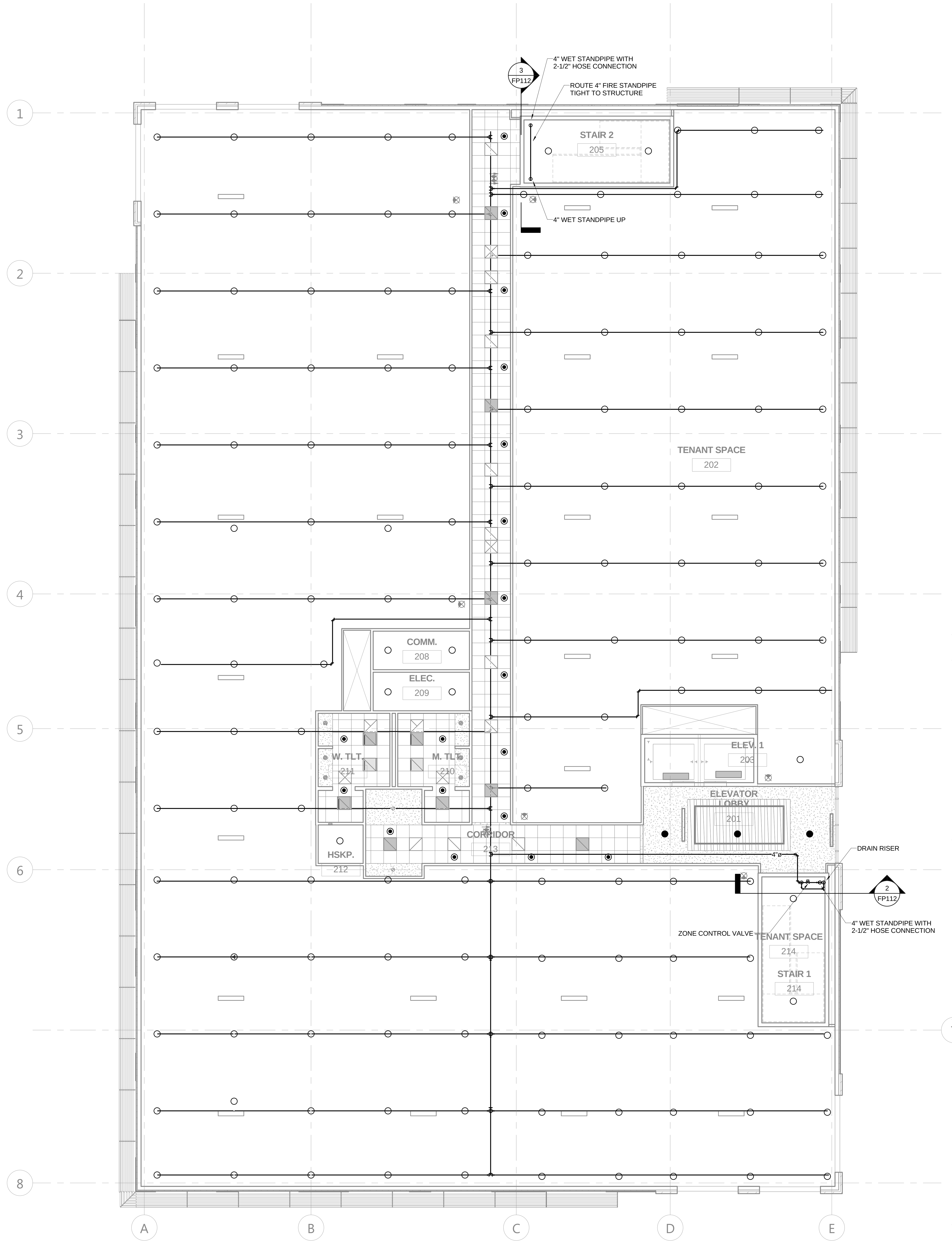
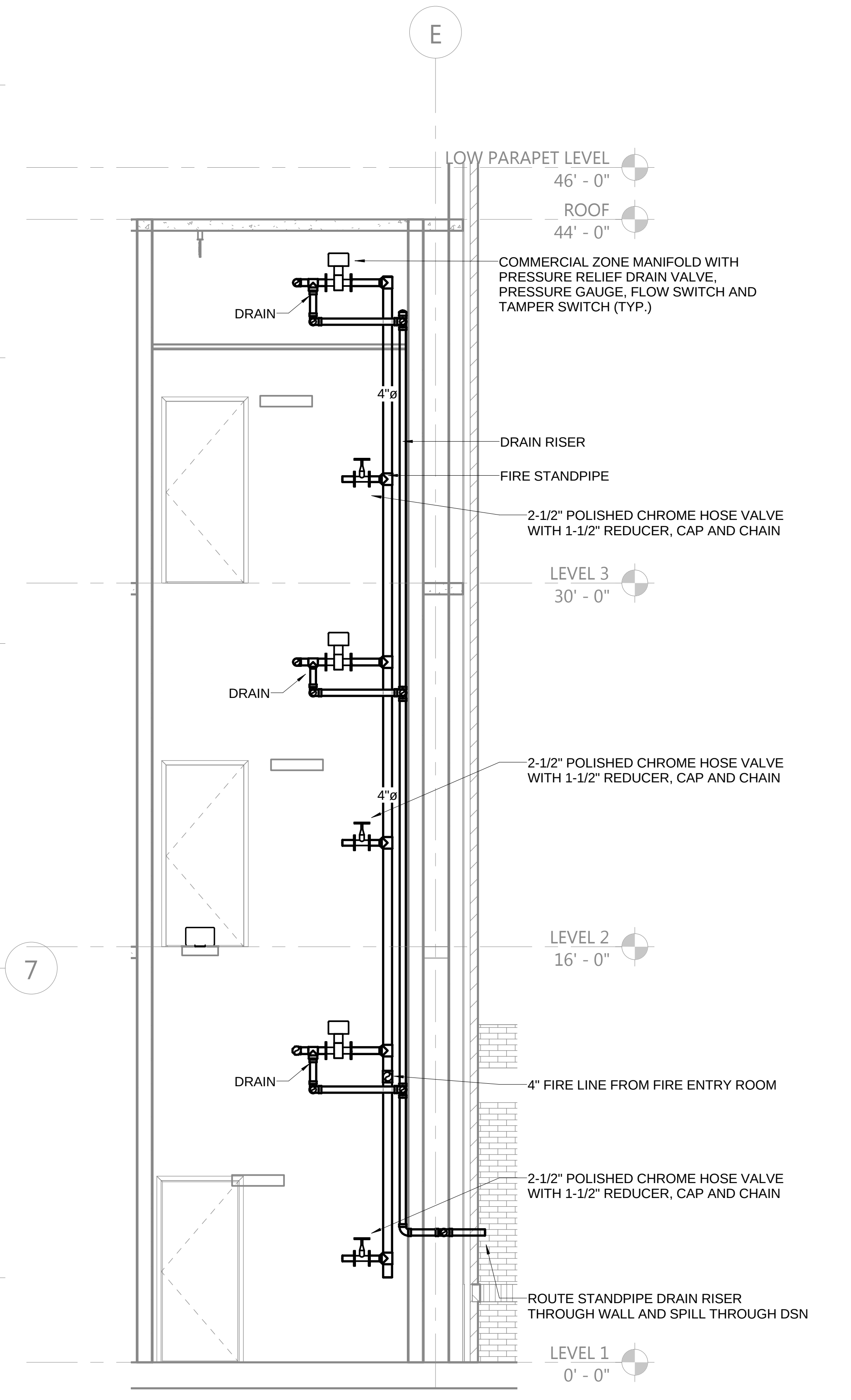
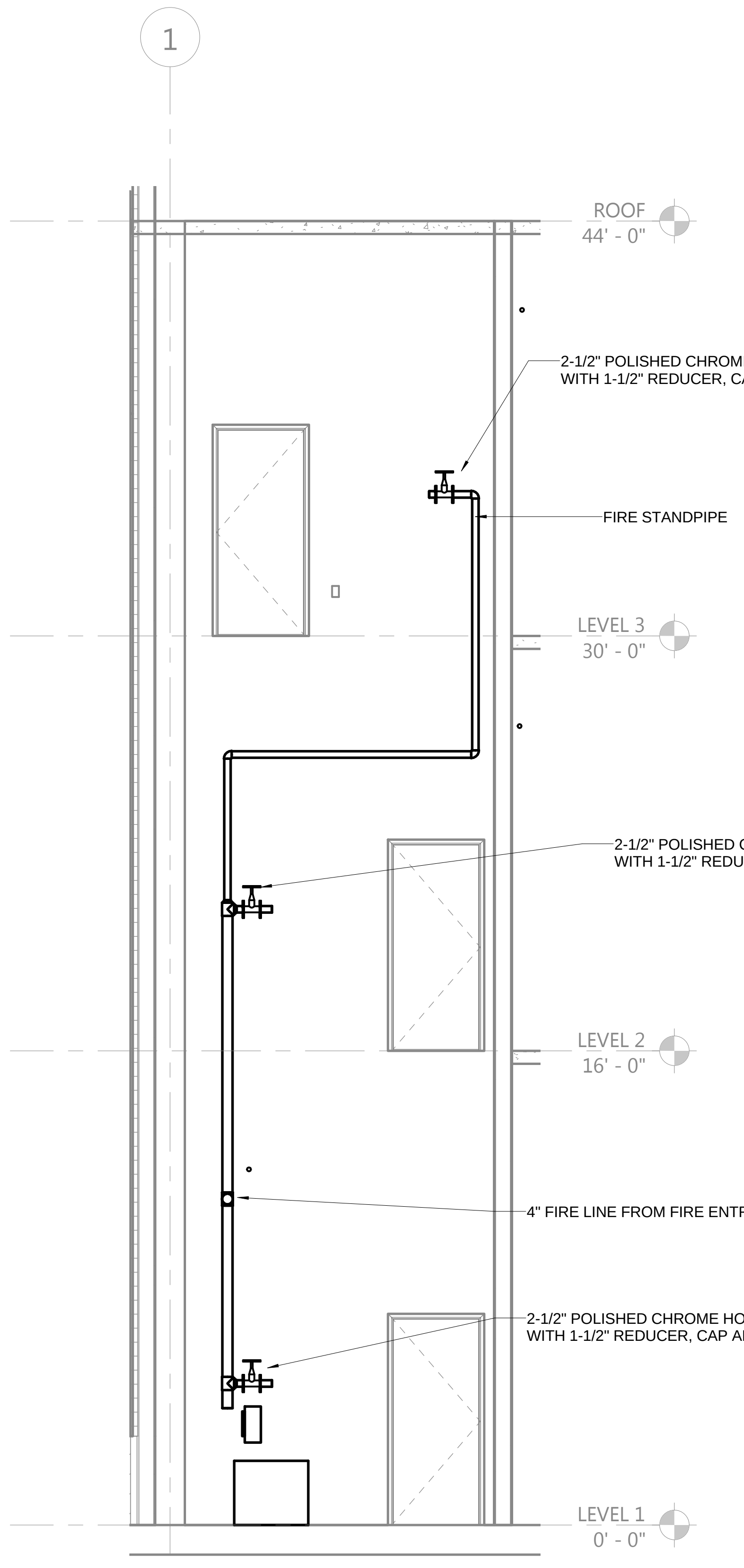


1 02 - SECOND FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"
NORTH


E
7
LOW PARAPET LEVEL
46' - 0"
ROOF
44' - 0"
COMMERCIAL ZONE MANIFOLD WITH PRESSURE RELIEF DRAIN VALVE, PRESSURE GAUGE, FLOW SWITCH AND TAMPER SWITCH (TYP.)
DRAIN
4"ø
DRAIN RISER
FIRE STANDPIPE
2-1/2" POLISHED CHROME HOSE VALVE WITH 1-1/2" REDUCER, CAP AND CHAIN
LEVEL 3
30' - 0"
DRAIN
2-1/2" POLISHED CHROME HOSE VALVE WITH 1-1/2" REDUCER, CAP AND CHAIN
LEVEL 2
16' - 0"
DRAIN
4" FIRE LINE FROM FIRE ENTRY ROOM
2-1/2" POLISHED CHROME HOSE VALVE WITH 1-1/2" REDUCER, CAP AND CHAIN
ROUTE STANDPIPE DRAIN RISER THROUGH WALL AND SPILL THROUGH DSN
LEVEL 1
0' - 0"

2 ENLARGED STAIR 1 RISER
SCALE: 1/4" = 1'-0"


1
ROOF
44' - 0"
2-1/2" POLISHED CHROME HOSE VALVE WITH 1-1/2" REDUCER, CAP AND CHAIN
FIRE STANDPIPE
LEVEL 3
30' - 0"
2-1/2" POLISHED CHROME HOSE VALVE WITH 1-1/2" REDUCER, CAP AND CHAIN
LEVEL 2
16' - 0"
4" FIRE LINE FROM FIRE ENTRY ROOM
2-1/2" POLISHED CHROME HOSE VALVE WITH 1-1/2" REDUCER, CAP AND CHAIN
LEVEL 1
0' - 0"

3 ENLARGED STAIR 2 RISER
SCALE: 1/4" = 1'-0"

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DESIGNER: JMG ENGINEER: GHA

GENERAL NOTES:

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2. THE SYSTEM SHALL BE INSTALLED TO N.F.P.A. 13, AND STATE AND LOCAL CODES AND REQUIREMENTS.

3. CONTRACTOR SHALL INSTALL DRAIN VALVE AND TEST CONNECTIONS AS REQUIRED AND SHALL BE ROUTED OUTSIDE OF BUILDING.

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6. ALL DRAWINGS AND CALCULATIONS SHALL BE PERFORMED BY A CURRENTLY LICENSED MISSOURI PROFESSIONAL ENGINEER OR NICET LEVEL III FIRE PROTECTION DESIGNER.

PARTITION FIRE RATING LEGEND

- SMOKE PARTITION
- 1-HR FIRE BARRIER
- 1-HR FIRE/SMOKE BARRIER
- 2-HR FIRE BARRIER
- 2-HR FIRE/SMOKE BARRIER
- NON-RATED INTERIOR PARTITION

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GRAYSON M. ADAMS
NUMBER PE-2007009102
2-15-19
ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
SECOND FLOOR PLAN - FIRE PROTECTION

SHEET
FP112

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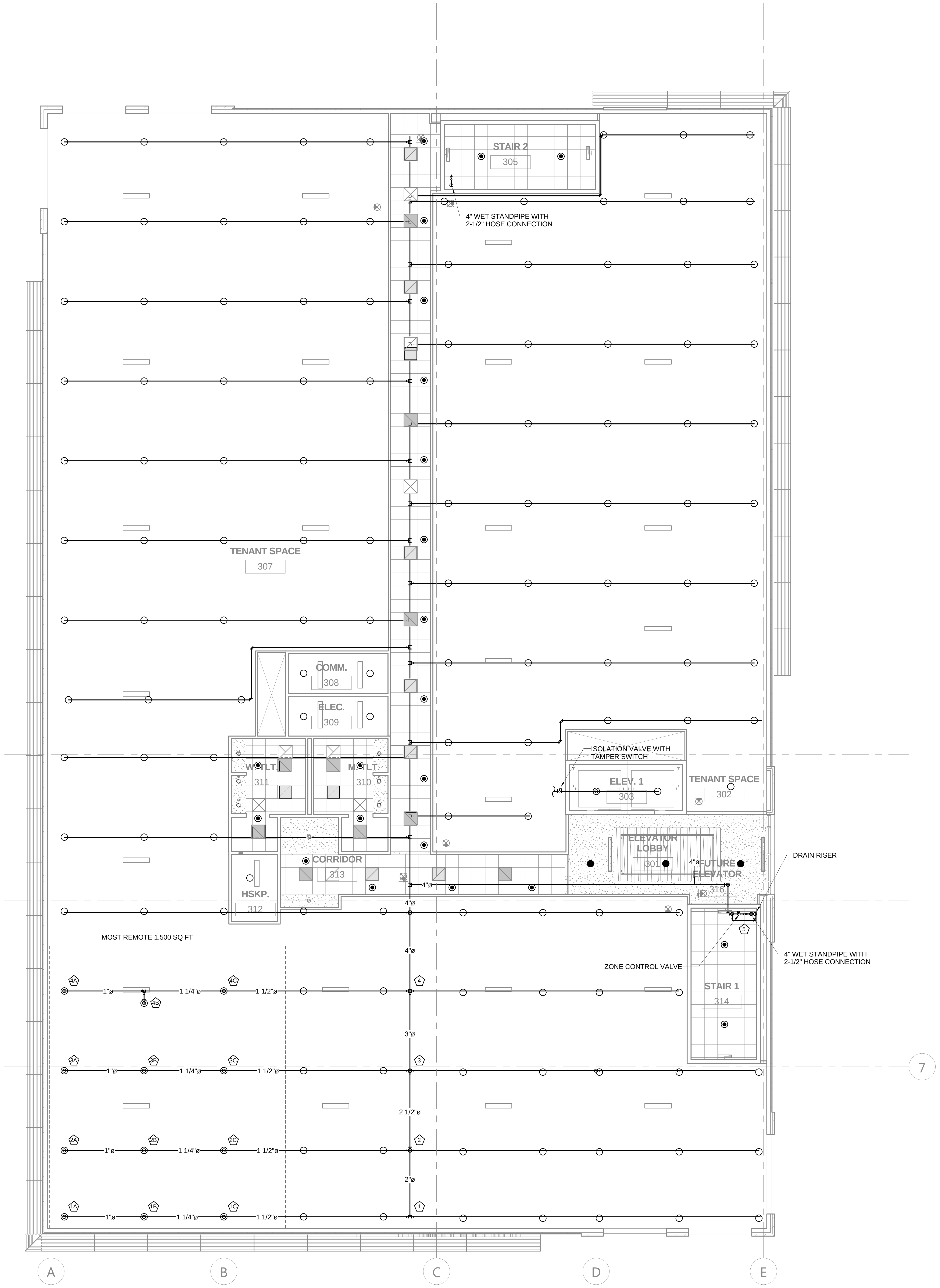

NORTH

1 03 - THIRD FLOOR PLAN - FIRE PROTECTION

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

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PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
♦—♦—♦	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

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THIRD FLOOR PLAN - FIRE PROTECTION

SHEET
FP113

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PLUMBING FIXTURE SCHEDULE

TAG	EQUIPMENT	MANUFACTURER	MODEL NUMBER	DESCRIPTION	HW	CW	W	V
WCH	WATER CLOSET (ADA) VALVE (1.28 GPF) SEAT CARRIER	KOHLER KOHLER CHURCH JR SMITH	K-96057-SS K-7531 295CT 0130	FLOOR MOUNT, 16-7/8" RIM HEIGHT, WHITE, ANTIMICROBIAL FINISH SENSOR FLUSH VALVE, 1.28 GPF, HYBRID BATTERY POWERED OPEN FRONT SEAT LESS COVER ADJUSTABLE SIPHON JET WALL SUPPORT, CAULK FITTING	X	1"	4"	2"
URH	URINAL (ADA) VALVE (0.125 GPF) CARRIER	KOHLER SLOAN JR SMITH	K-5244-ER K-7546 0623	WALL MOUNT, 17" RIM HEIGHT, WHITE SENSOR FLUSH VALVE, 0.125 GPF, BATTERY POWERED FLOOR MOUNTED WALL CARRIER	X	3/4"	2"	1-1/2"
LVH	LAVATORY (ADA) FAUCET (ADA, 0.5 GPM) P-TRAP SUPPLIES & STOPS STRAINER MIXING VALVE	KOHLER SYMMONS McGUIRE McGUIRE McGUIRE ZURN	K-2210 S-6080 8872 2165 155A ZW3870XLT	UNDERMOUNT, ROUND, WHITE SENSOR FAUCET, SINGLE HOLE, SINGLE LEVER, BATTERY POWERED CHROME PLATED, CAST BRASS P-TRAP CHROME PLATED, LOOSE KEY STOPS, VANDAL RESISTANT CHROME PLATED, CAST BRASS THERMOSTATIC MIXING VALVE	1/2"	1/2"	1-1/2"	1-1/2"
DFH	DRINKING FOUNTAIN (ADA) P-TRAP	ELKAY McGUIRE	LZWS-EDFPBM117K 8872	BI-LEVEL, NON-REFRIGERATED, FILTERED, W/BOTTLE FILLER CHROME PLATED, CAST BRASS P-TRAP	X	1/2"	1-1/2"	1-1/2"
SB	SERVICE BASIN FAUCET	FIAT CHICAGO	MSB2424 897-CP	PRECAST MOP RECEPTOR, 24" X 24" X 10", W/ SS WALL GUARD FAUCET WITH VACUUM BREAKER, TOP BRACE, THREADED OUTLET	1/2"	1/2"	3"	1-1/2"
TP	TRAP PRIMER	PPP	P1-500	TRAP PRIMER MOUNTED AT LEAST 12" ABOVE TRAP IN WALL CAVITY. SERVES UP TO 4 TRAPS	X	1/2"	X	X
SA	SHOCK ABSORBER	JR SMITH	5005 - 5050	SHOCK ABSORBER MOUNTED ON LINES WITH QUICK CLOSING VALVES	X	SEE PLANS	X	X
FD	FLOOR DRAIN	JR SMITH	2005-B	6" ROUND, NICKEL STRAINER, 3" OUTLET	X	X	3"	1-1/2"
CO	CLEANOUT	JR SMITH	4020	FINISHED FLOOR CLEANOUT WITH ROUND NICKEL BRONZE TOP	X	X	SEE PLANS	X
WCO	WALL CLEANOUT	JR SMITH	9775	FINISHED WALL CLEANOUT WITH ROUND THREADED PLUG AND STAINLESS STEEL COVER PLATE	X	X	SEE PLANS	X
HB	HOSE BIBB	ZURN	Z1321	EXPOSED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING	X	3/4"	X	X
RD	ROOF DRAIN	JR SMITH	1010	LOW PROFILE DOME WITH CAST IRON BODY	X	X	SEE PLANS	X
OD	OVERFLOW DRAIN	JR SMITH	1080	EMERGENCY OVERFLOW WITH 2" EXTERIOR WATER DAM	X	X	SEE PLANS	X
DSN	DOWNSPOUT NOZZLE	JR SMITH	1770	NO HUB, WALL FLANGE, DOWNSPOUT NOZZLE FOR RAINWATER PIPING	X	X	SEE PLANS	X
RPBP	BACKFLOW PREVENTER	WATTS	LF009	REDUCED PRESSURE BACKFLOW PREVENTER, LEAD FREE, 1"	X	2"	X	X

GENERAL PLUMBING LEGEND

SYMBOL	DESCRIPTION
▣ ◯	NEW PLUMBING FIXTURE
————	SANITARY WASTE PIPE ABOVE FLOOR SLAB/GRADE
— — — — —	SANITARY WASTE PIPE BELOW FLOOR SLAB/GRADE
- - - - - - - - - -	SANITARY VENT PIPE
——PRWL——	RAIN WATER LEADER PIPE ABOVE FLOOR SLAB/GRADE
— —PRWL— —	RAIN WATER LEADER PIPE BELOW FLOOR SLAB GRADE
——ORWL——	OVERFLOW RAIN WATER PIPE ABOVE FLOOR SLAB GRADE
— —ORWL— —	OVERFLOW RAIN WATER LEADER PIPE BELOW FLOOR SLAB/GRADE
— · — · — · —	DOMESTIC COLD WATER PIPE
— · · — · · —	DOMESTIC HOT WATER PIPE
— · · · — · · · —	DOMESTIC HOT WATER RECIRCULATING PIPE
AFF	ABOVE FINISH FLOOR
BFF	BELOW FINISH FLOOR
CW	DOMESTIC COLD WATER PIPE
CO	INTERIOR CLEANOUT
ECO	EXTERIOR CLEANOUT
FD	FLOOR DRAIN
GM	GAS METER
HW	DOMESTIC HOT WATER PIPE
HWR	DOMESTIC HOT WATER RECIRCULATING PIPE
IE	INVERT ELEVATION
PRWL	PRIMARY RAIN WATER LEADER
ORWL	OVERFLOW RAIN WATER LEADER
TP	TRAP PRIMER
V	VENT
VTR	VENT THRU ROOF
W	WASTE (SANITARY)
WCO	WALL CLEANOUT
⊕	CONNECT TO EXISTING
|○|	SHUT-OFF VALVE

SUMP PUMP SCHEDULE

IDENT.	SP
MANUFACTURER	HYDROMATIC
MODEL NUMBER	SP50
GPM, HEAD LOSS	50 GPM, 15' THL
POWER	3/4 HP
VOLTAGE/PHASE	120/1
TYPE	SUBMERSIBLE, SIMPLEX

REMARKS:
A. PROVIDE 24" X 24" X 24" SUMP BASIN
B. DISCHARGE TO SERVICE BASIN IN HSKP 159
C. PUMP SHALL HAVE OIL SENSING CAPABILITIES

WATER HEATER SCHEDULE

IDENT.	WH
MANUFACTURER	LOCHINVAR
MODEL NUMBER	ET SERIES
CAPACITY	40 GAL
GPH @ 100° RISE	19
POWER	4.5 KW
VOLTAGE/PHASE	208-1-60
DIMENSIONS	20-1/2" Ø X 45-1/4"

ACCESSORIES:
A. THERM-X-TROL THERMAL EXPANSION TANK MODEL ST-5
B. STAINLESS STEEL DRAIN PAN TO FLOOR DRAIN.

HW RECIRC PUMP SCHEDULE

IDENT.	RP
MANUFACTURER	TACO
MODEL NUMBER	0010
TARGET OP. GPM	2.75 GPM
TARGET OP. HEAD LOSS	9.82' THL
POWER	1/8 HP
VOLTAGE/PHASE	115/1
TYPE	IN-LINE CIRCULATING

0010 REMARKS:
MAX FLOW: 32 GPM
MAX HEAD: 10 FT
5° TEMP DROP

CORE BUILDING FIXTURE DEMAND

SYSTEM TYPE	GPM	LINE CONNECTION SIZE
COLD WATER	90	2-1/2" Ø
HOT WATER	43.5	1-1/4" Ø
TOTAL WATER	93	3" Ø
SANITARY WASTE	-	6" Ø @ 1/8" SLOPE PER FOOT

NOTES:
PROVIDE 4" W ,3" V, AND 1-1/2" CW STUB OUTS AT FOUR MAIN STACKS AT EACH BUILDING QUADRANT TO SERVE FUTURE TENANT BUILDOUTS.

PLUMBING SHEET INDEX

Sheet Number	Sheet Name
P001	LEGEND & SCHEDULE - PLUMBING
P110	UNDER FIRST FLOOR PLAN - PLUMBING
P111	FIRST FLOOR PLAN - PLUMBING
P112	SECOND FLOOR PLAN - PLUMBING
P113	THIRD FLOOR PLAN - PLUMBING
P114	ROOF PLAN - PLUMBING
P201	SANITARY RISER - PLUMBING
P202	DOMESTIC RISER - PLUMBING
P203	ENLARGED RISERS - PLUMBING
P301	DETAILS - PLUMBING

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
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STATUS
CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
GRAYSON [illegible] ADAMS
NUMBER
PE-2007009102
PROFESSIONAL ENGINEER
2-15-19

ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
LEGEND & SCHEDULE - PLUMBING

SHEET
P001

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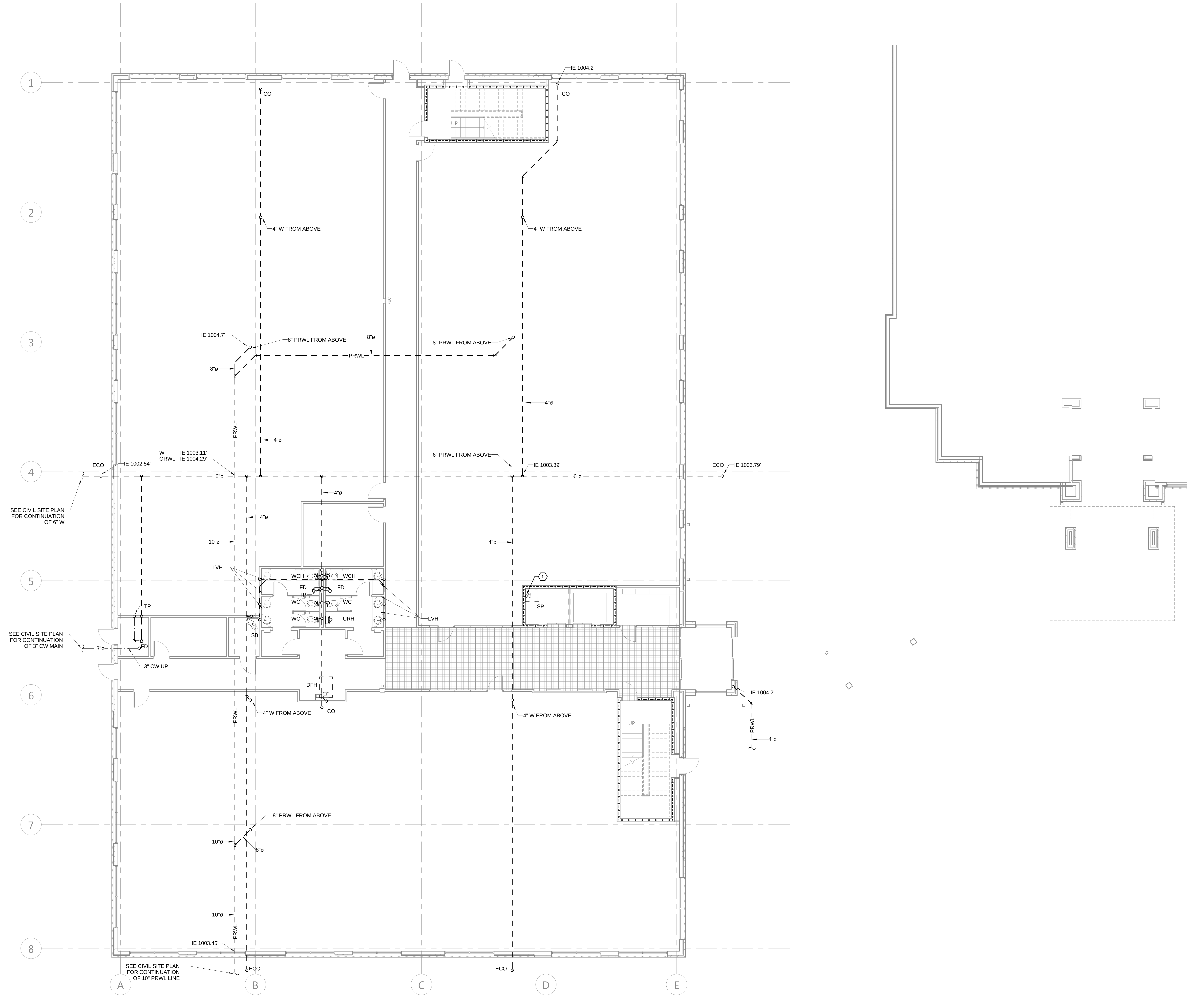

1 UNDER FIRST FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

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PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
◆—◆—◆	1-HR FIRE BARRIER
◆S—◆S—◆S	1-HR FIRE/SMOKE BARRIER
◆◆—◆◆—◆◆	2-HR FIRE BARRIER
◆◆S—◆◆S—◆◆S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES: ⟨#⟩

1. ROUTE PUMPED WASTE FROM SUMP PUMP UP IN CORNER OF SHAFT.

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TITLE
UNDER FIRST FLOOR PLAN - PLUMBING

SHEET
P110

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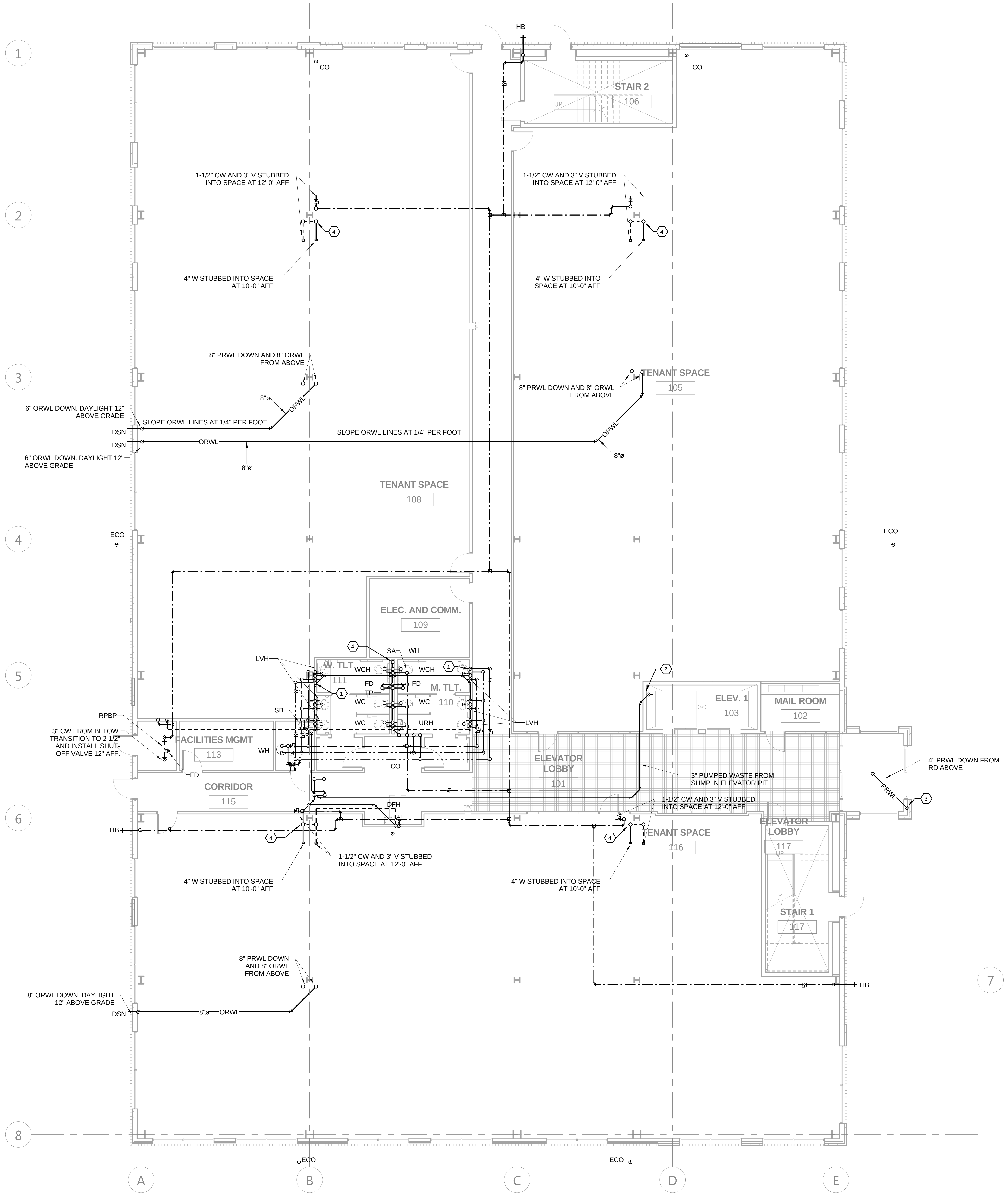
HB
CO
CO
STAIR 2
106
UP
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
4
4
4" W STUBBED INTO SPACE AT 10'-0" AFF
4" W STUBBED INTO SPACE AT 10'-0" AFF
FEC
8" PRWL DOWN AND 8" ORWL FROM ABOVE
8" PRWL DOWN AND 8" ORWL FROM ABOVE
TENANT SPACE
105
8"ø
ORWL
6" ORWL DOWN. DAYLIGHT 12" ABOVE GRADE
SLOPE ORWL LINES AT 1/4" PER FOOT
DSN
DSN
ORWL
SLOPE ORWL LINES AT 1/4" PER FOOT
ORWL
8"ø
6" ORWL DOWN. DAYLIGHT 12" ABOVE GRADE
8"ø
TENANT SPACE
108
ECO
ECO
ELEC. AND COMM.
109
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W. TLT.
111
WCH
WCH
1
FD
FD
TP
1
M. TLT.
110
WC
WC
WC
URH
SB
LVH
LVH
2
ELEV. 1
103
MAIL ROOM
102
RPBP
3" CW FROM BELOW. TRANSITION TO 2-1/2" AND INSTALL SHUT-OFF VALVE 12" AFF.
FACILITIES MGMT
113
WH
FD
CO
ELEVATOR LOBBY
101
3" PUMPED WASTE FROM SUMP IN ELEVATOR PIT
4" PRWL DOWN FROM RD ABOVE
PRWL
3
CORRIDOR
115
DFH
FEC
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
HB
4
4
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
TENANT SPACE
116
ELEVATOR LOBBY
117
UP
4" W STUBBED INTO SPACE AT 10'-0" AFF
4" W STUBBED INTO SPACE AT 10'-0" AFF
STAIR 1
117
8" PRWL DOWN AND 8" ORWL FROM ABOVE
8" ORWL DOWN. DAYLIGHT 12" ABOVE GRADE
DSN
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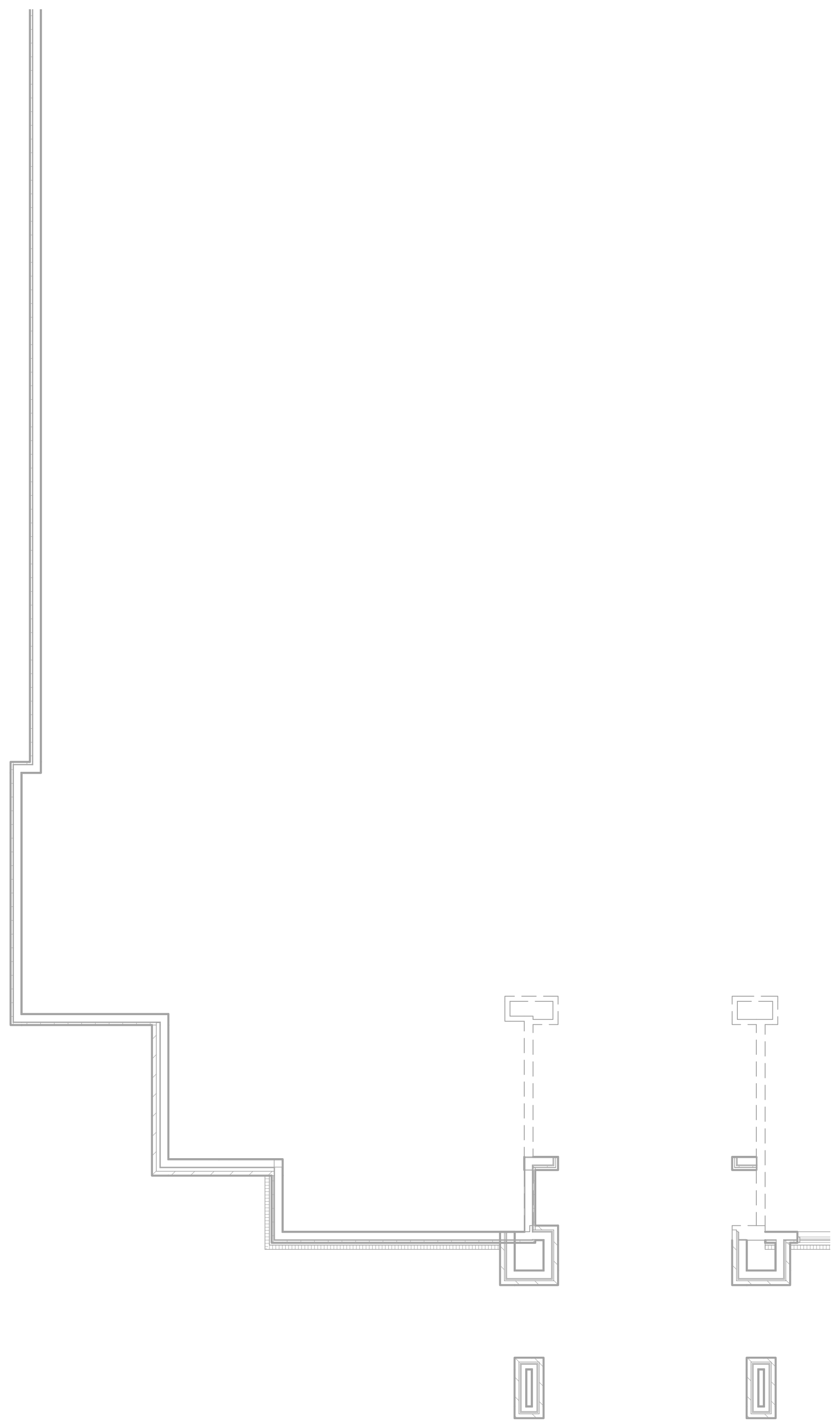

1 FIRST FLOOR PLAN - PLUMBING

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

NORTH

GENERAL NOTES:

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PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
◆—◆—◆	1-HR FIRE BARRIER
◆S—◆S—◆S	1-HR FIRE/SMOKE BARRIER
◆◆—◆◆—◆◆	2-HR FIRE BARRIER
◆◆S—◆◆S—◆◆S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES: ⟨#⟩

1. ROUTE 3/4" HWR LINE DOWN IN WALL BEHIND FIXTURE AND CONNECT TO 1/2" HW LINE.

2. ROUTE PUMPED WASTE FROM SUMP PUMP THROUGH WALL 11'-12' AFF.

3. ROUTE 4" RAINWATER TIGHT TO CORNER AT VESTIBULE.

4. PROVIDE WALL CLEANOUT AT BASE OF STACK.

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CLIENT PROJECT NUMBER: N/A

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STATUS
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GRAYSON H. ADAMS
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2-15-19
ENGINEER OF RECORD

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DATES OF ISSUANCE

TITLE
FIRST FLOOR PLAN - PLUMBING

SHEET
P111

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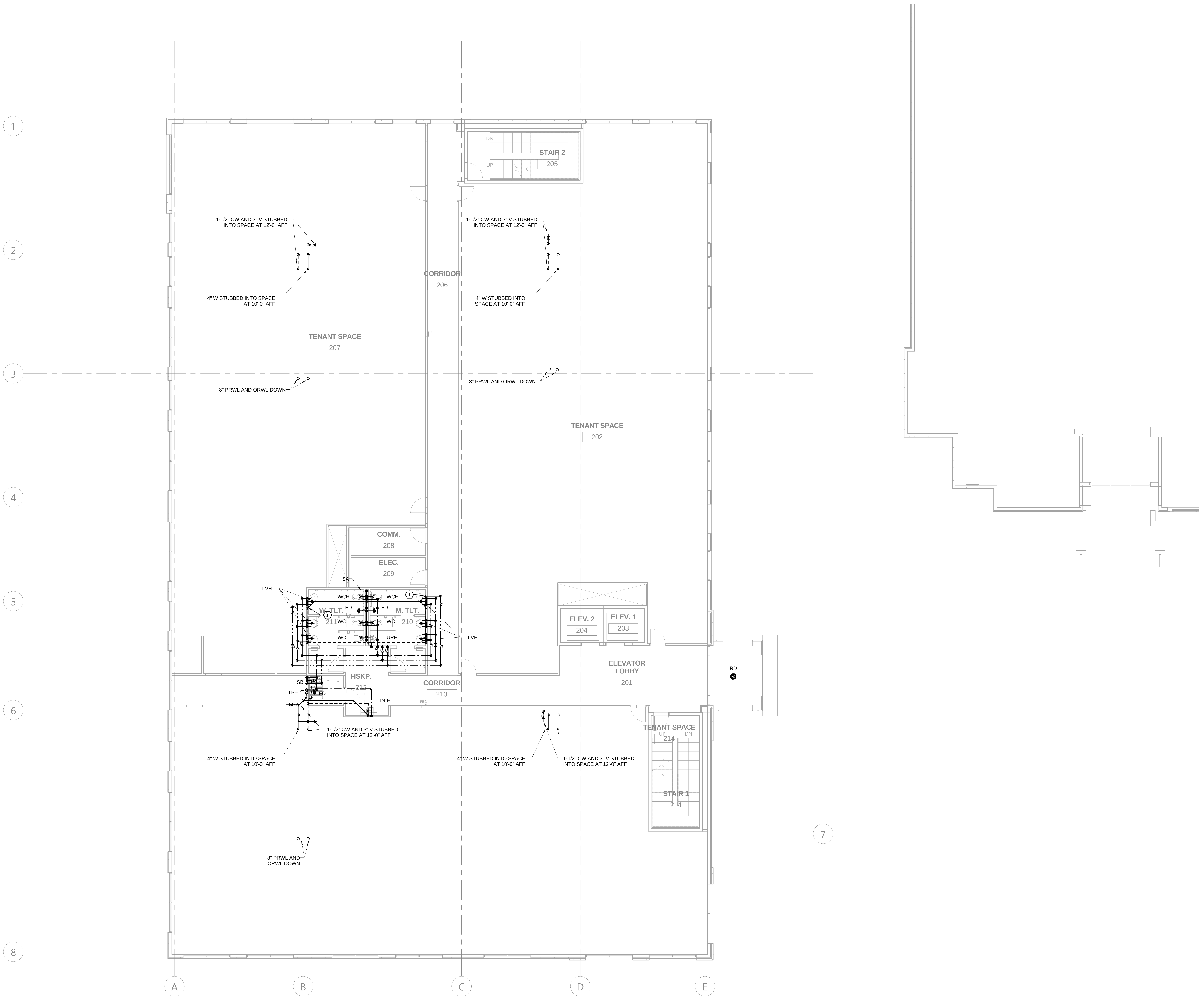
1
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DN
UP
STAIR 2
205
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
4" W STUBBED INTO SPACE AT 10'-0" AFF
CORRIDOR
206
FEC
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
4" W STUBBED INTO SPACE AT 10'-0" AFF
TENANT SPACE
207
8" PRWL AND ORWL DOWN
8" PRWL AND ORWL DOWN
TENANT SPACE
202
COMM.
208
ELEC.
209
SA
LVH
WCH
WCH
1
FD
FD
TP
W. TLT.
211
M. TLT.
210
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WC
URH
LVH
ELEV. 2
204
ELEV. 1
203
ELEVATOR LOBBY
201
RD
SB
TP
FD
HSKP.
212
DFH
CORRIDOR
213
FEC
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
4" W STUBBED INTO SPACE AT 10'-0" AFF
4" W STUBBED INTO SPACE AT 10'-0" AFF
1-1/2" CW AND 3" V STUBBED INTO SPACE AT 12'-0" AFF
TENANT SPACE
214
UP
DN
STAIR 1
214
8" PRWL AND ORWL DOWN

NORTH

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

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PARTITION FIRE RATING LEGEND

S—S—S	SMOKE PARTITION
◆—◆—◆	1-HR FIRE BARRIER
◆S—◆S—◆S	1-HR FIRE/SMOKE BARRIER
◆◆—◆◆—◆◆	2-HR FIRE BARRIER
◆◆S—◆◆S—◆◆S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES:

1. ROUTE 3/4" HWR LINE DOWN IN WALL BEHIND FIXTURE AND CONNECT TO 1/2" HW LINE.

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LEE'S SUMMIT M.O.B.
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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER PE-2007009102
2:15:19
ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE
SECOND FLOOR PLAN - PLUMBING

SHEET
P112

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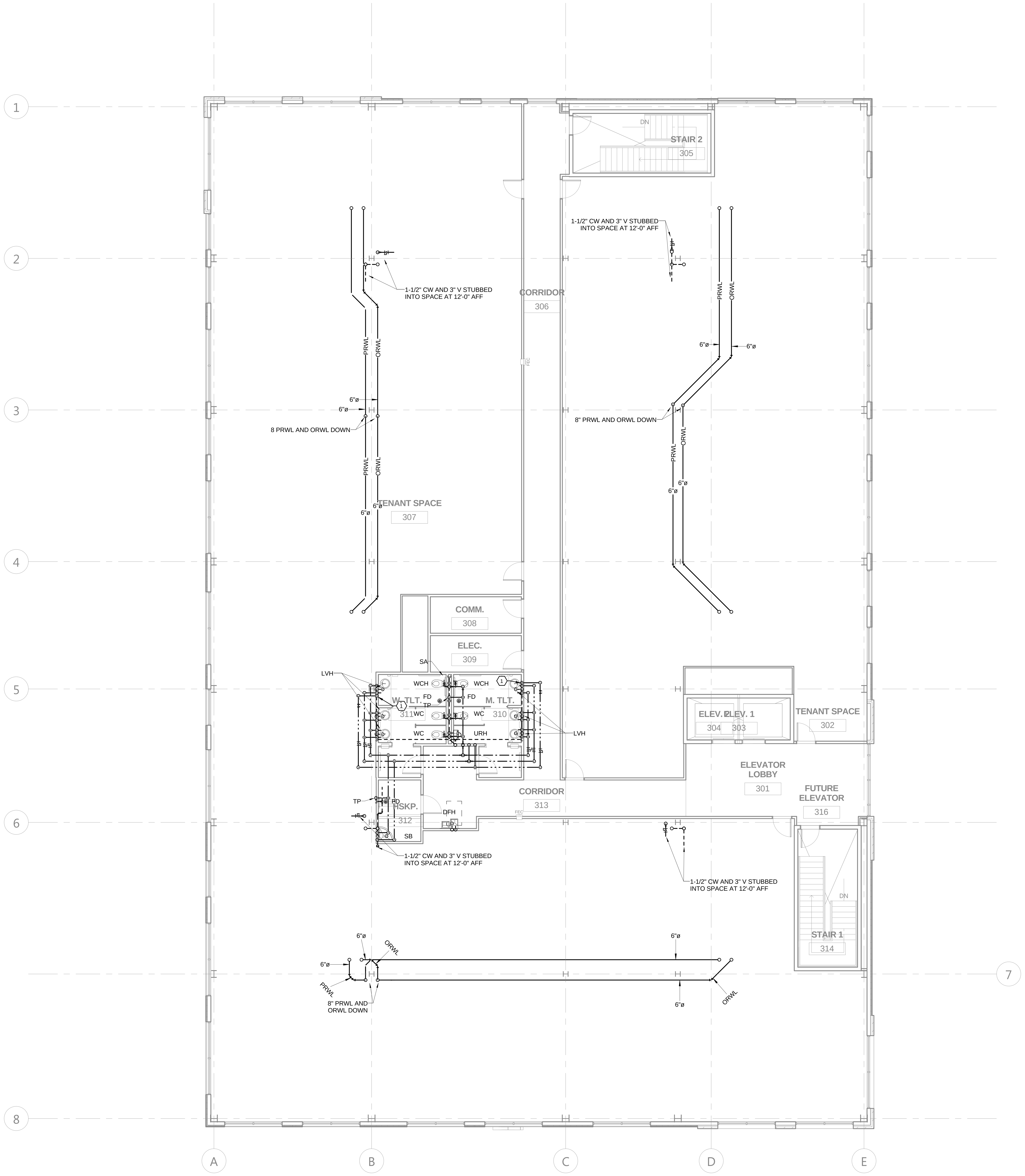

1 THIRD FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
NORTH

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♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES:

1. ROUTE 3/4" HWR LINE DOWN IN WALL BEHIND FIXTURE AND CONNECT TO 1/2" HW LINE.

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NUMBER PE-2007009102
2-15-19
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02/15/19

TITLE
THIRD FLOOR PLAN - PLUMBING

SHEET
P113

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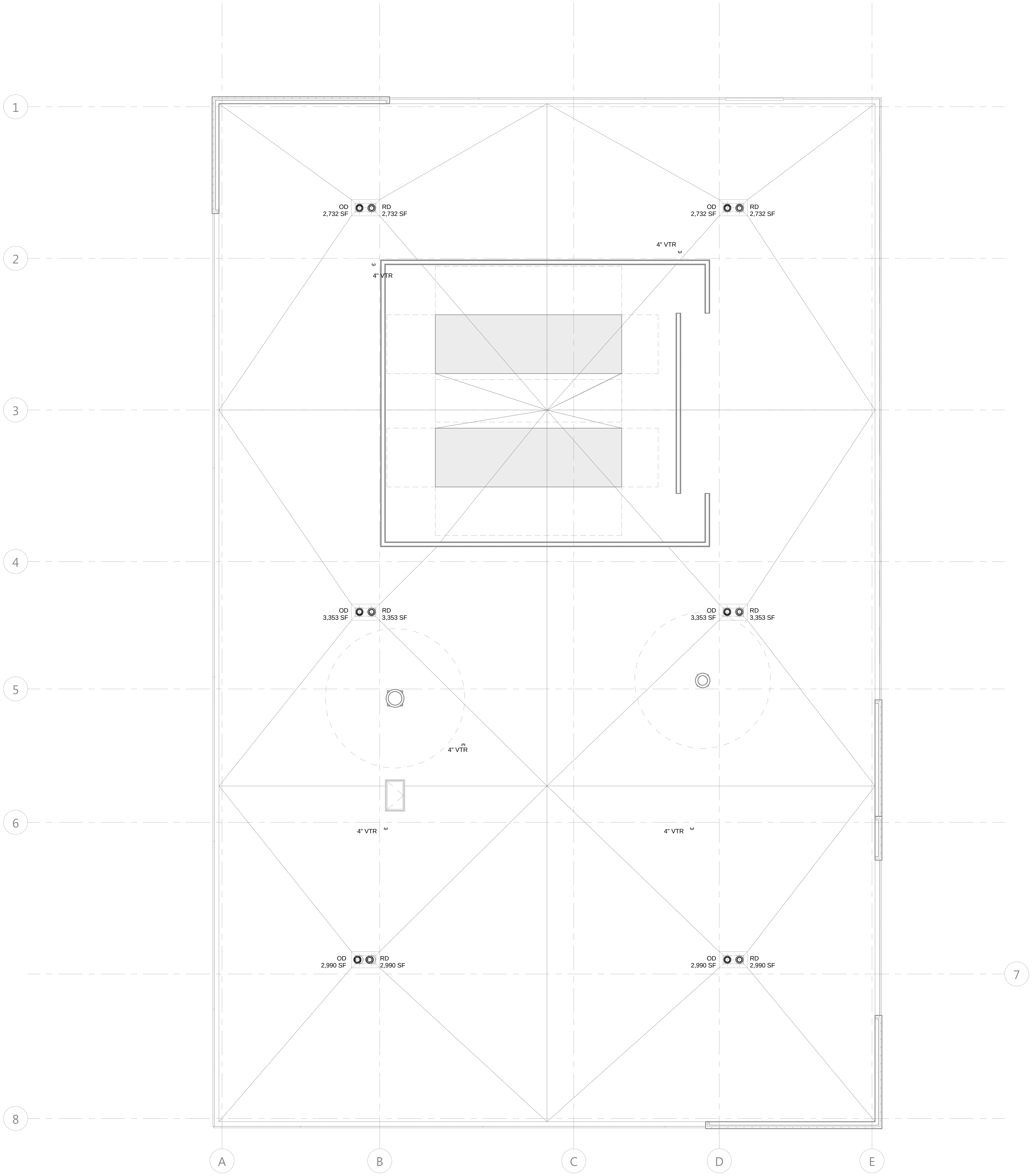

NORTH

1 ROOF PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

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PARTITION FIRE RATING LEGEND

-S—S—S-	SMOKE PARTITION
-♦-♦-♦-♦-	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

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TITLE
ROOF PLAN - PLUMBING

SHEET
P114

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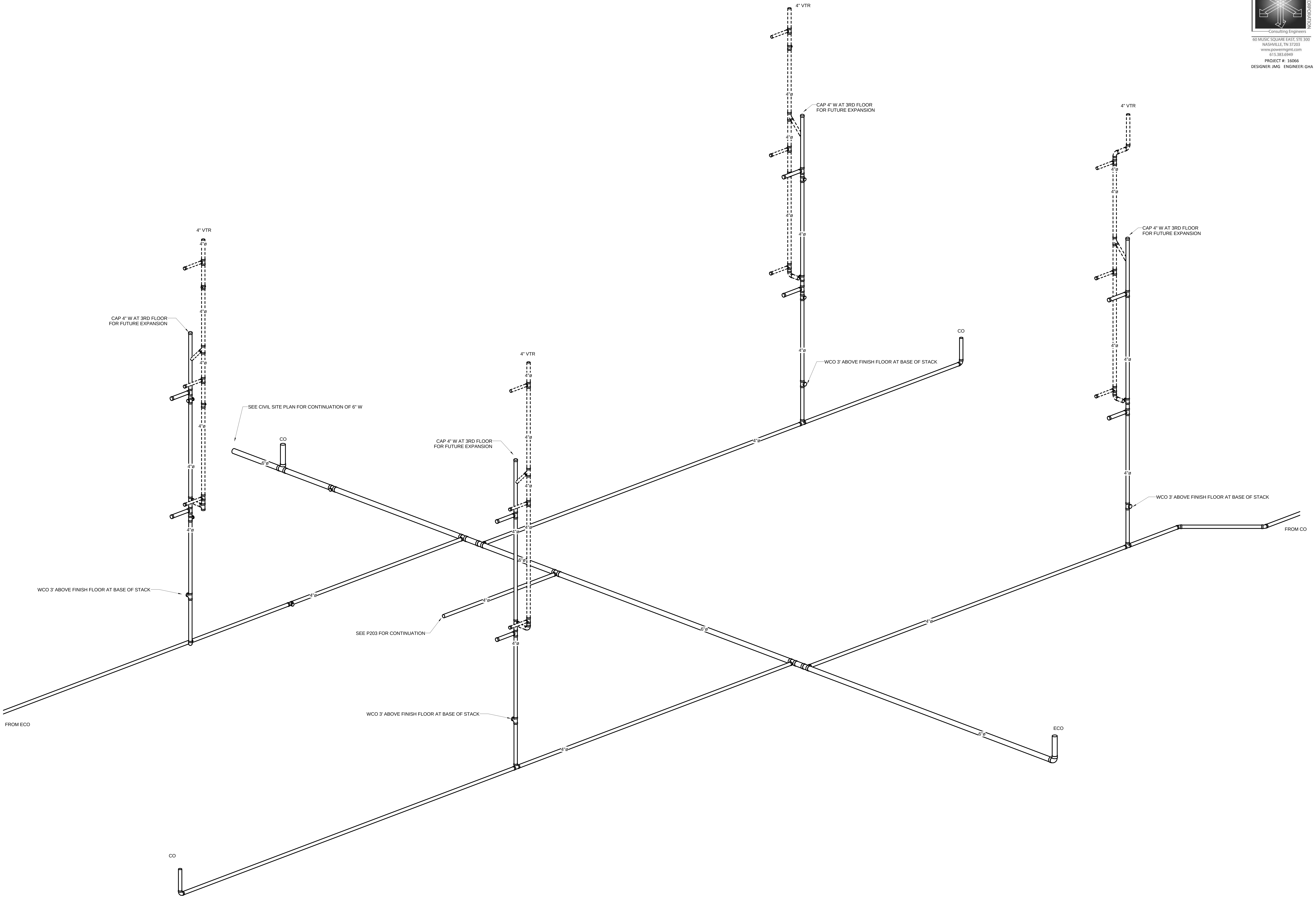
4" VTR
4"ø
CAP 4" W AT 3RD FLOOR
FOR FUTURE EXPANSION
4" VTR
CAP 4" W AT 3RD FLOOR
FOR FUTURE EXPANSION
4"ø
4" VTR
CAP 4" W AT 3RD FLOOR
FOR FUTURE EXPANSION
CO
WCO 3' ABOVE FINISH FLOOR AT BASE OF STACK
SEE CIVIL SITE PLAN FOR CONTINUATION OF 6" W
4" VTR
CO
CAP 4" W AT 3RD FLOOR
FOR FUTURE EXPANSION
6"ø
WCO 3' ABOVE FINISH FLOOR AT BASE OF STACK
FROM CO
WCO 3' ABOVE FINISH FLOOR AT BASE OF STACK
SEE P203 FOR CONTINUATION
FROM ECO
WCO 3' ABOVE FINISH FLOOR AT BASE OF STACK
ECO
CO

1 SANITARY RISER

PMC POWER MANAGEMENT CORPORATION
Consulting Engineers
60 MUSIC SQUARE EAST, STE 300
NASHVILLE, TN 37203
www.powermgmt.com
615.383.6949
PROJECT #: 16066
DESIGNER: JMG ENGINEER: GHA

HEREFORD · DOOLEY
ARCHITECTS

1720 WEST END AVE · SUITE 300
NASHVILLE · TENNESSEE · 37203
P · 615 · 244 · 7399
F · 615 · 244 · 6697
WWW.HDARCHITECTS.COM

PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER
PE-2007009102
2-15-19

ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE
SANITARY RISER - PLUMBING

SHEET
P201

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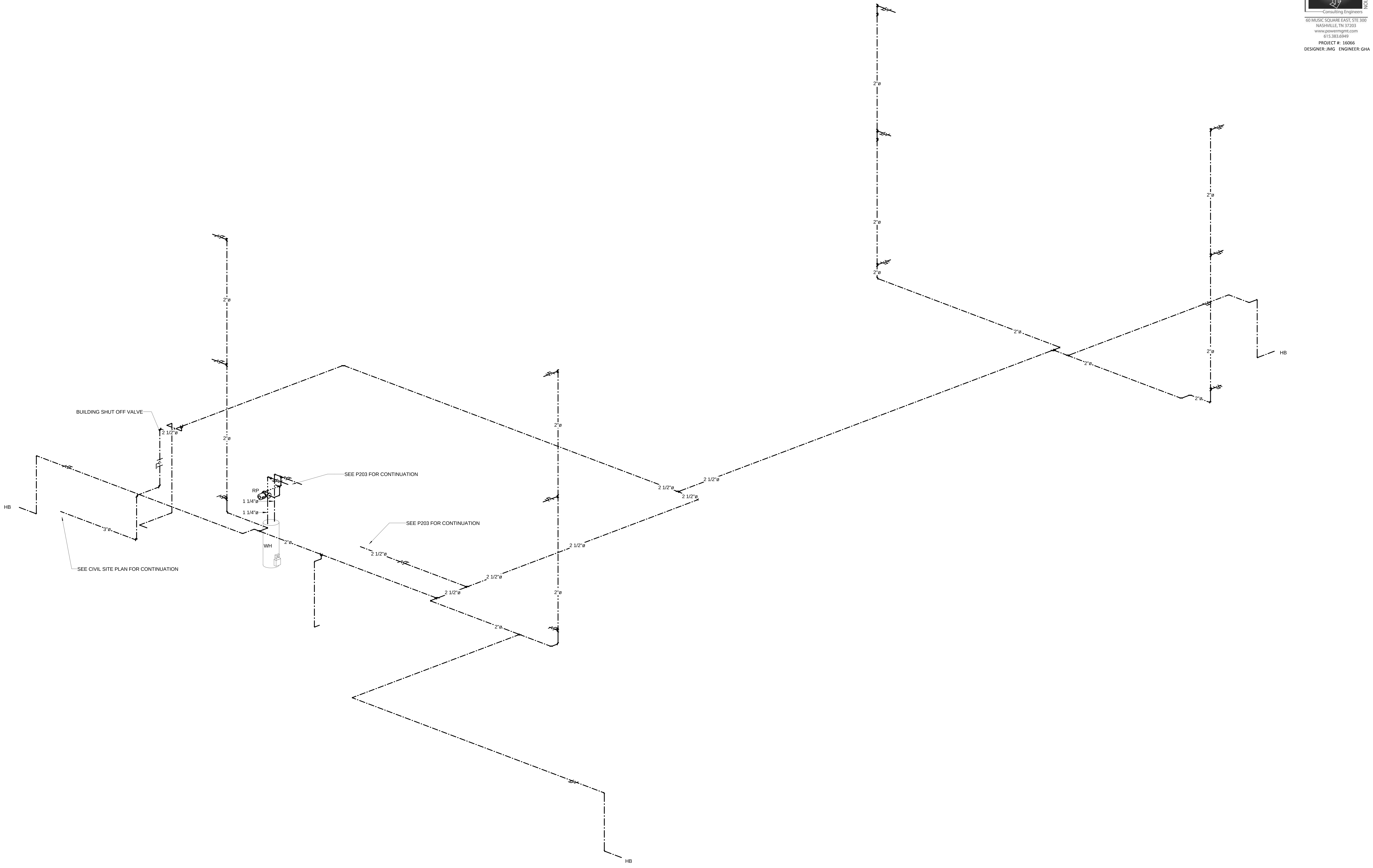

1 DOMESTIC RISER

PMC POWER MANAGEMENT CORPORATION
Consulting Engineers
60 MUSIC SQUARE EAST, STE 300
NASHVILLE, TN 37203
www.powermgmt.com
615.383.6949
PROJECT #: 16066
DESIGNER: JMG ENGINEER: GHA

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CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
GRAYSON ADAMS
NUMBER
PE-2007009102
PROFESSIONAL ENGINEER
2-15-19
ENGINEER OF RECORD

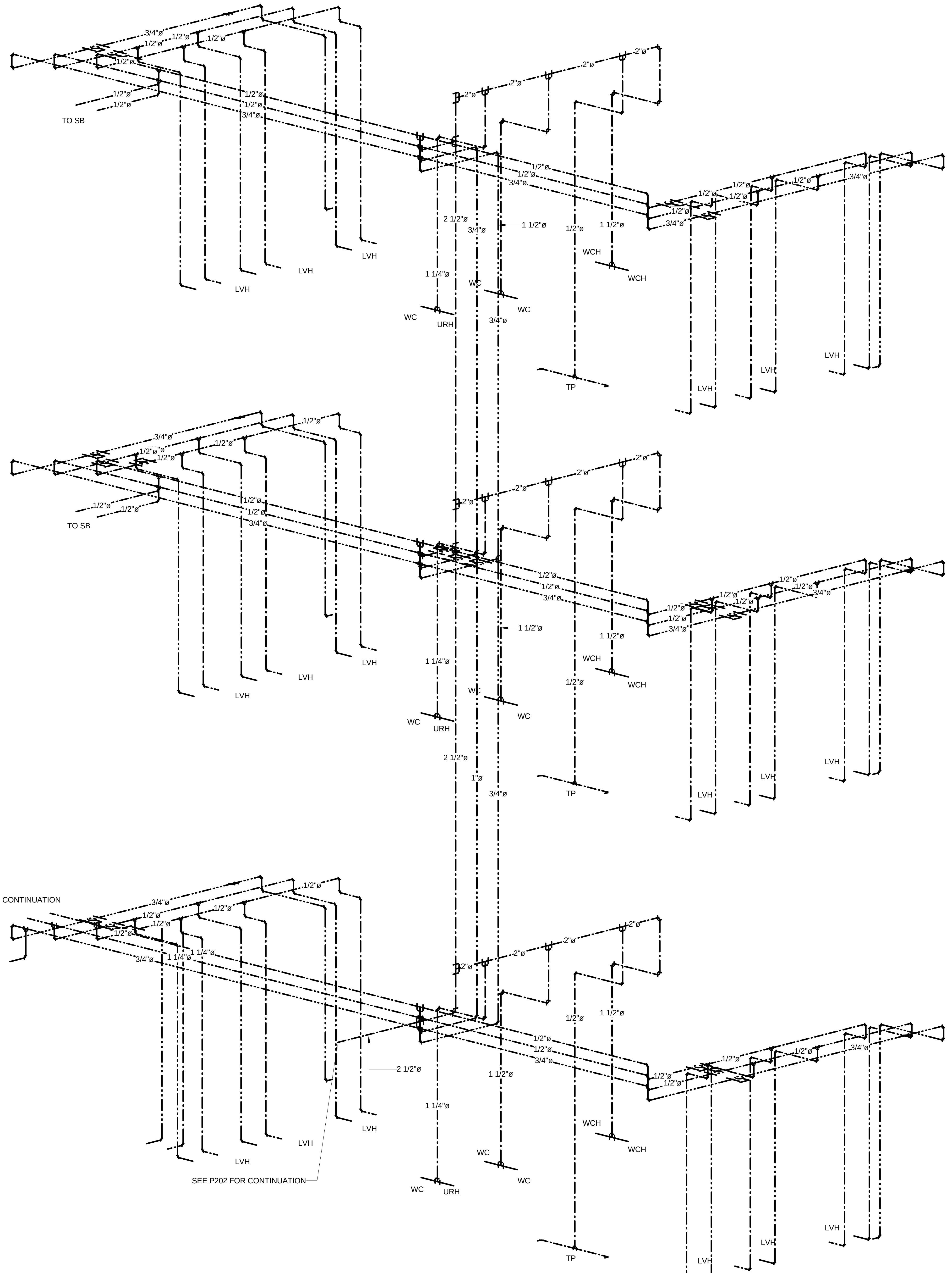
02/15/19

DATES OF ISSUANCE

TITLE
DOMESTIC RISER - PLUMBING

SHEET
P202

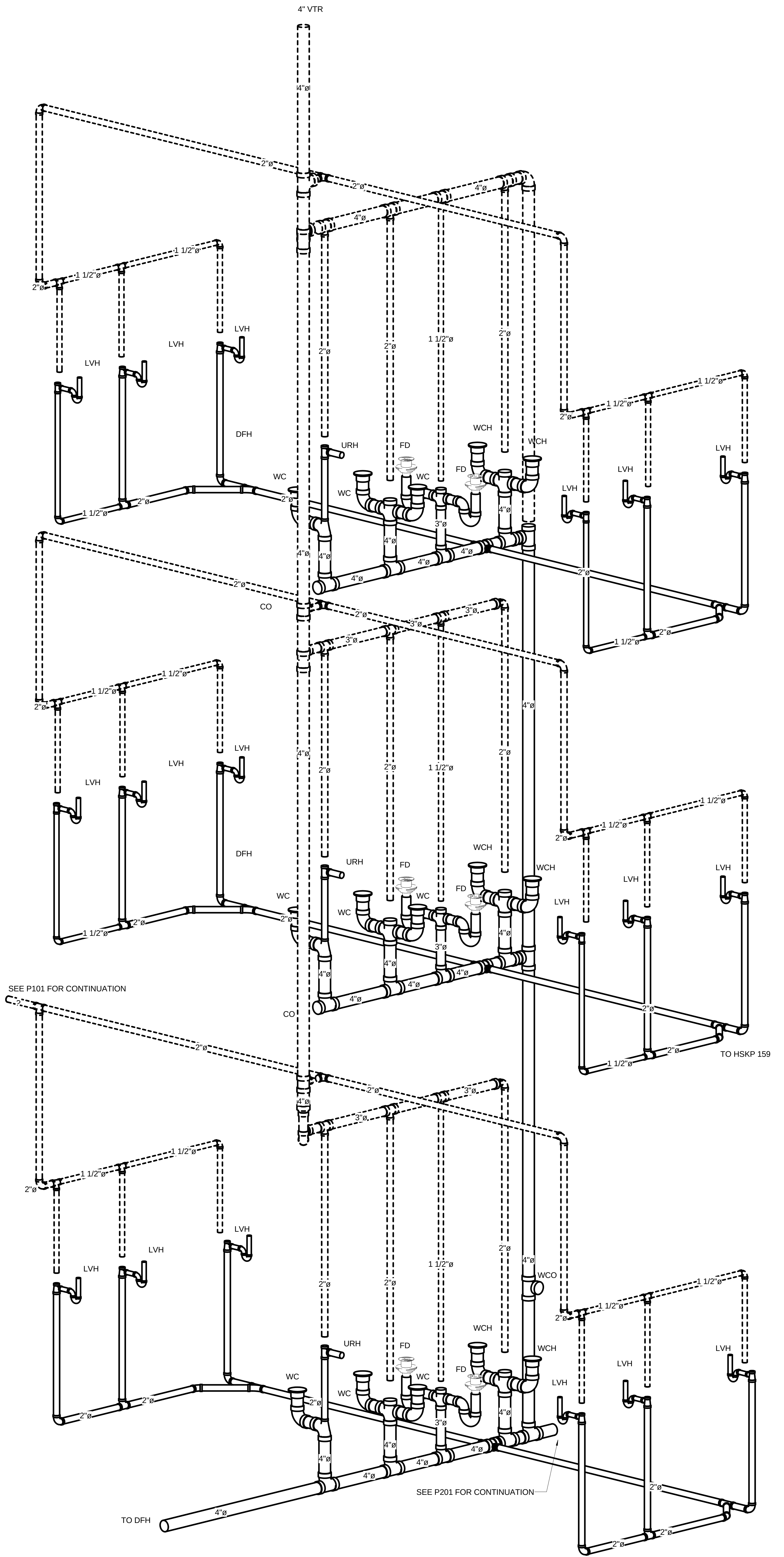
SEE P101 FOR CONTINUATION



SEE P202 FOR CONTINUATION

1 ENLARGED DOMESTIC RISER

4" VTR



SEE P101 FOR CONTINUATION

TO HSKP 159

SEE P201 FOR CONTINUATION

TO DFH

2 ENLARGED SANITARY RISER

PMC POWER MANAGEMENT CORPORATION
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2-15-19
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02/15/19

TITLE
ENLARGED RISERS - PLUMBING

SHEET
P203

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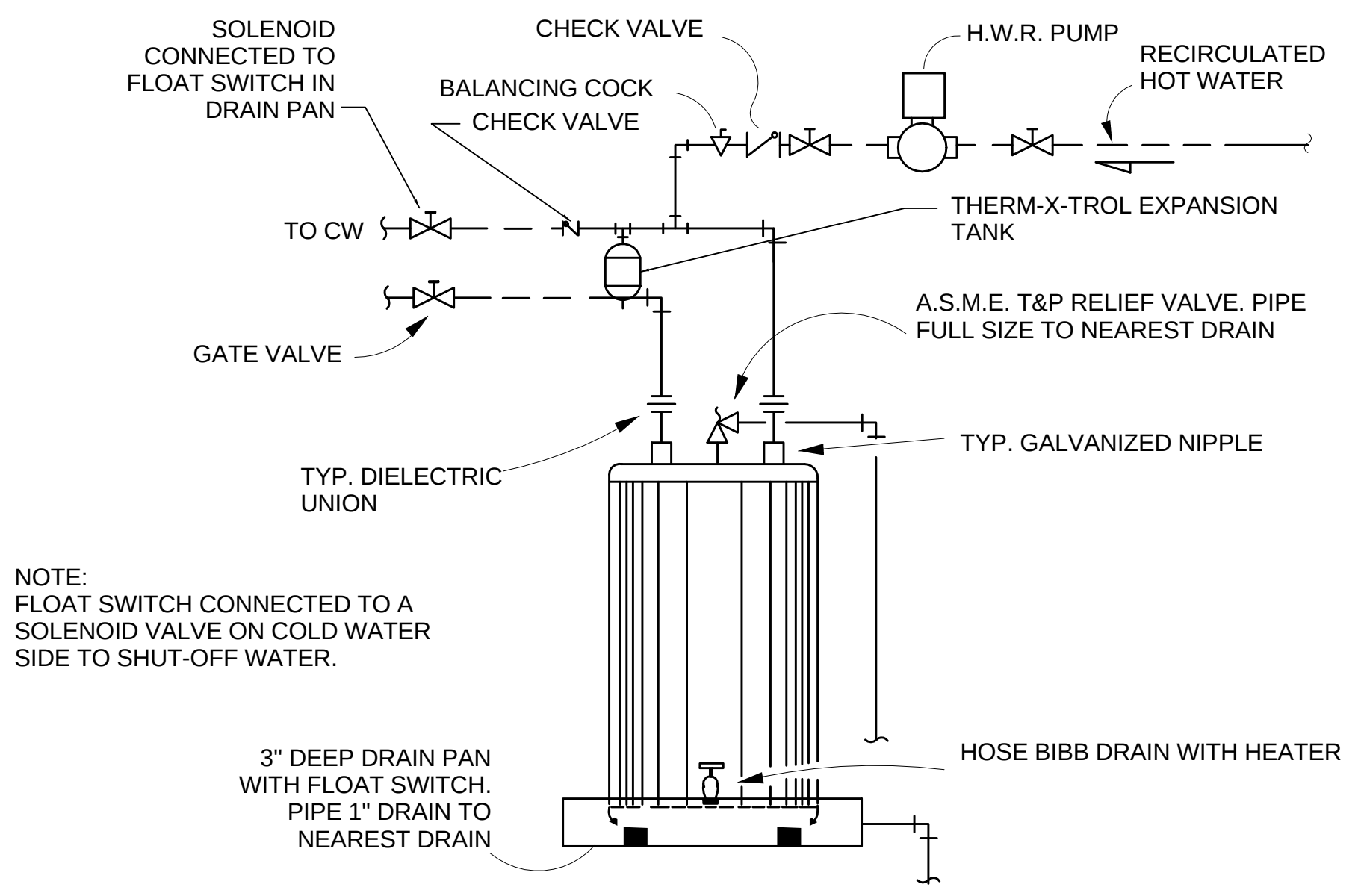
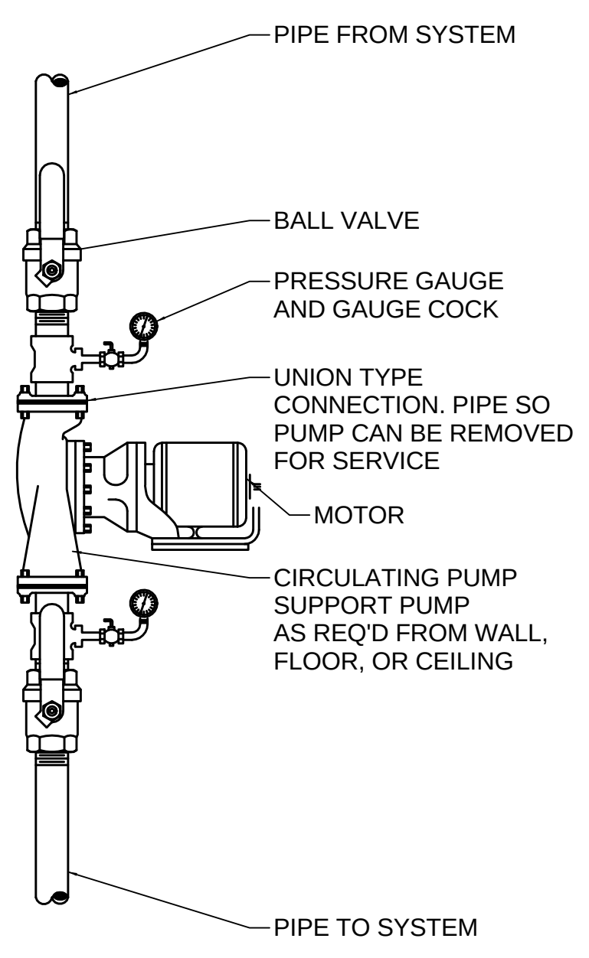

SOLENOID CONNECTED TO FLOAT SWITCH IN DRAIN PAN
CHECK VALVE
BALANCING COCK
CHECK VALVE
H.W.R. PUMP
RECIRCULATED HOT WATER
TO CW
THERM-X-TROL EXPANSION TANK
GATE VALVE
A.S.M.E. T&P RELIEF VALVE. PIPE FULL SIZE TO NEAREST DRAIN
TYP. GALVANIZED NIPPLE
TYP. DIELECTRIC UNION
NOTE:
FLOAT SWITCH CONNECTED TO A SOLENOID VALVE ON COLD WATER SIDE TO SHUT-OFF WATER.
3" DEEP DRAIN PAN WITH FLOAT SWITCH. PIPE 1" DRAIN TO NEAREST DRAIN
HOSE BIBB DRAIN WITH HEATER

WATER HEATER DETAIL

SCALE: NONE

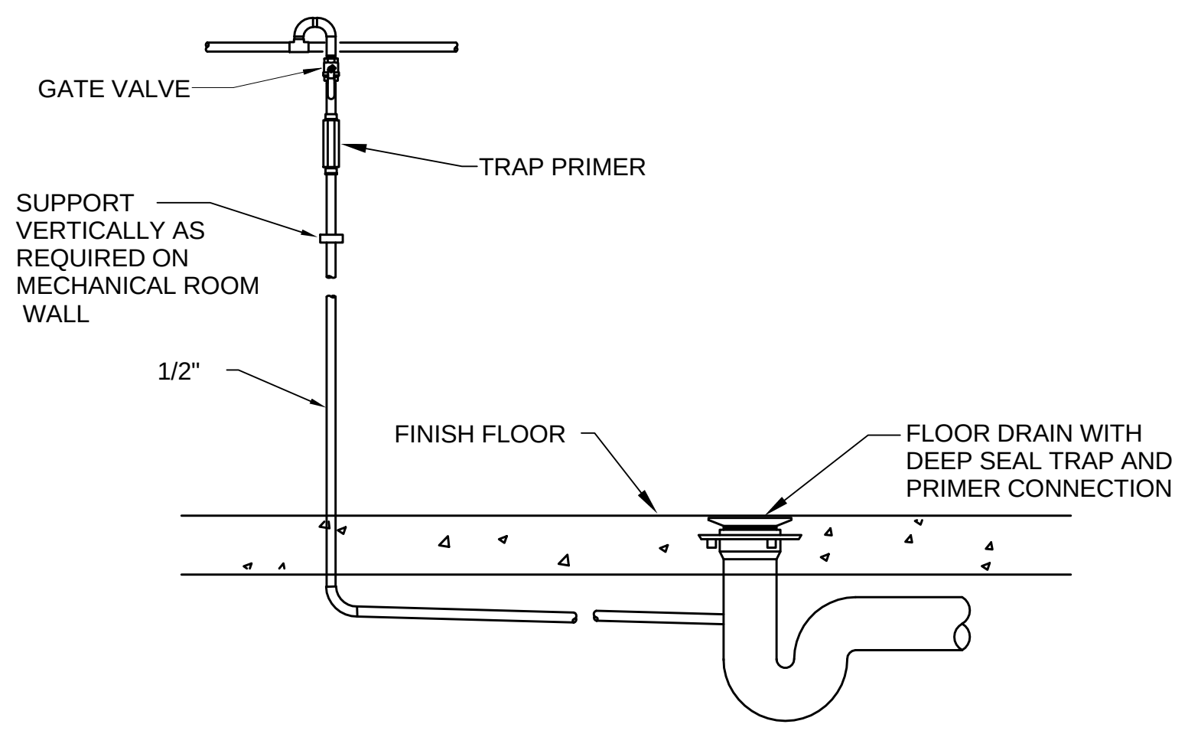
1


PIPE FROM SYSTEM
BALL VALVE
PRESSURE GAUGE AND GAUGE COCK
UNION TYPE CONNECTION. PIPE SO PUMP CAN BE REMOVED FOR SERVICE
MOTOR
CIRCULATING PUMP SUPPORT PUMP AS REQ'D FROM WALL, FLOOR, OR CEILING
PIPE TO SYSTEM

IN-LINE CIRCULATING PUMP DETAIL

SCALE: NONE

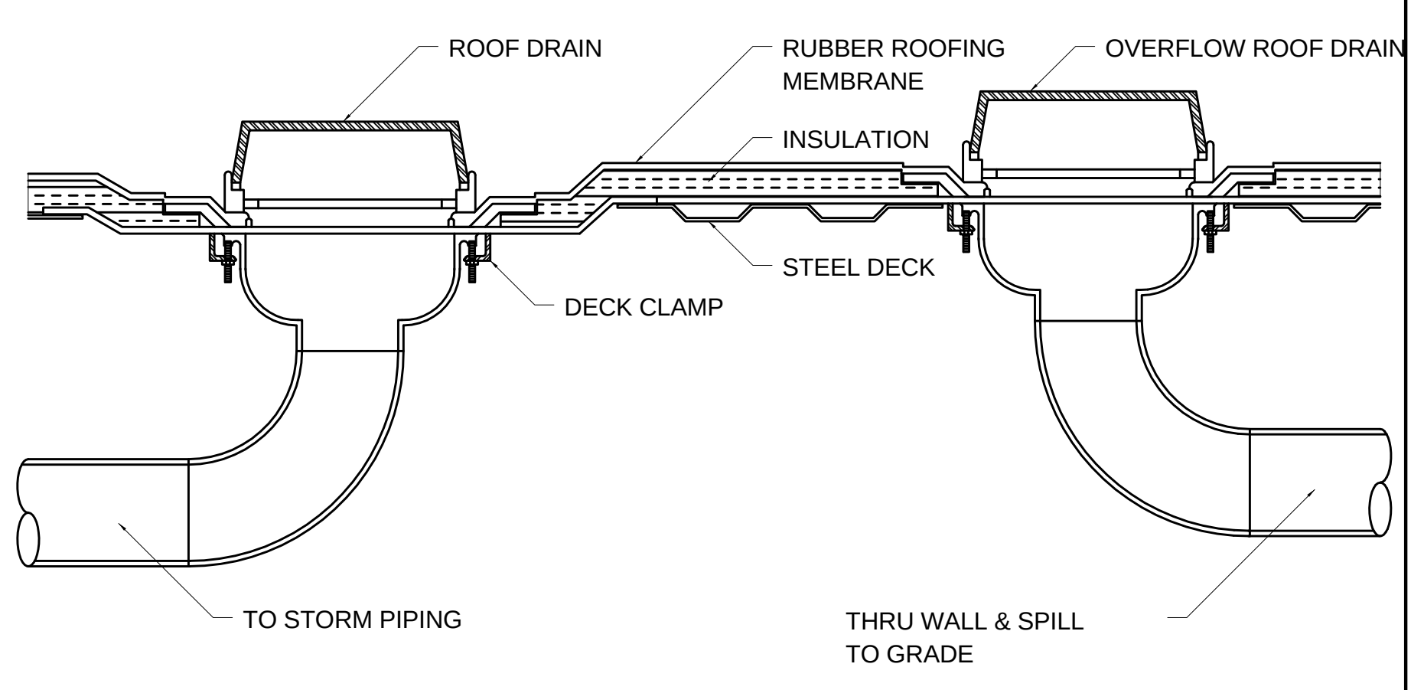
2


GATE VALVE
TRAP PRIMER
SUPPORT VERTICALLY AS REQUIRED ON MECHANICAL ROOM WALL
1/2"
FINISH FLOOR
FLOOR DRAIN WITH DEEP SEAL TRAP AND PRIMER CONNECTION

SINGLE TRAP PRIMER DETAIL

SCALE: NONE

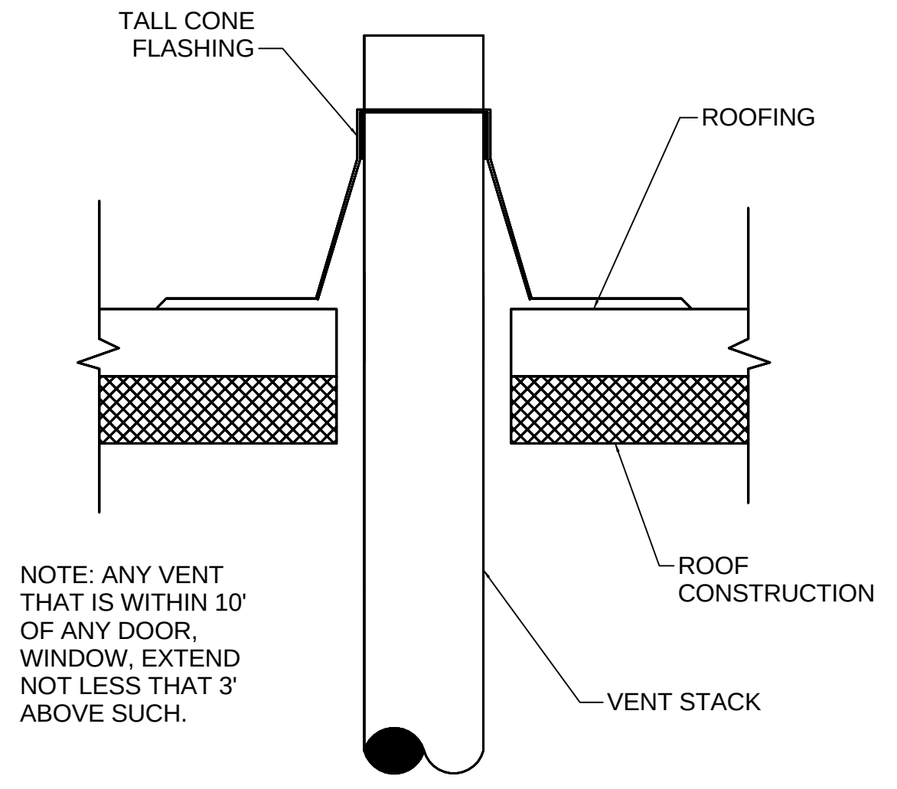
3



ROOF DRAIN AND OVERFLOW DRAIN DETAIL

SCALE: NONE

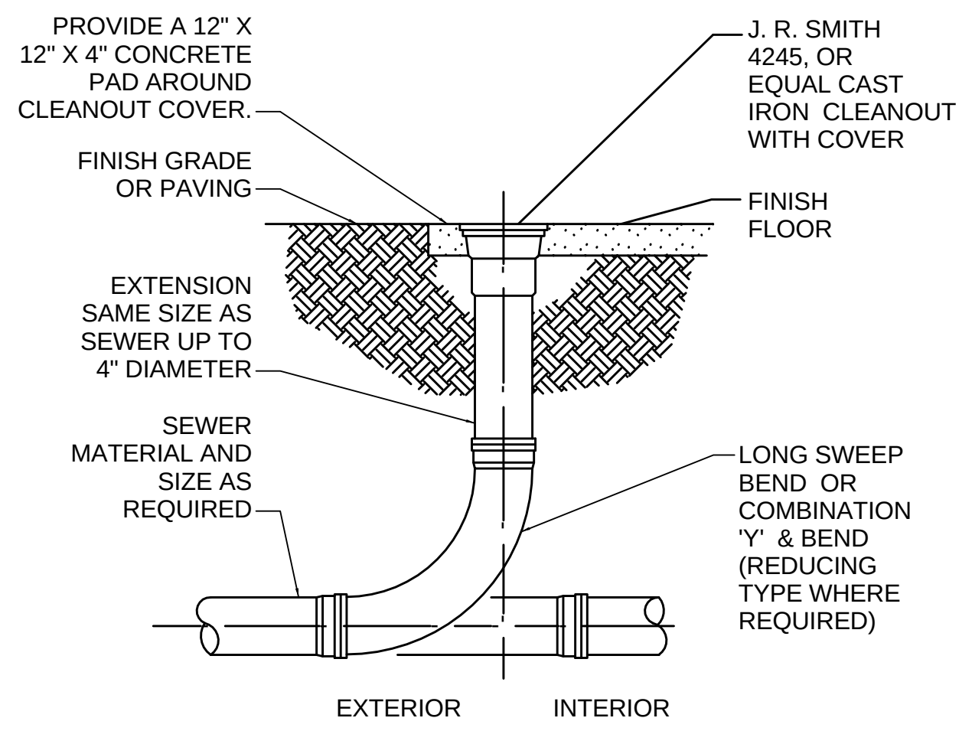
4


TALL CONE FLASHING
ROOFING
ROOF CONSTRUCTION
NOTE: ANY VENT THAT IS WITHIN 10' OF ANY DOOR, WINDOW, EXTEND NOT LESS THAT 3' ABOVE SUCH.
VENT STACK

VENT THRU ROOF DETAIL

SCALE: NONE

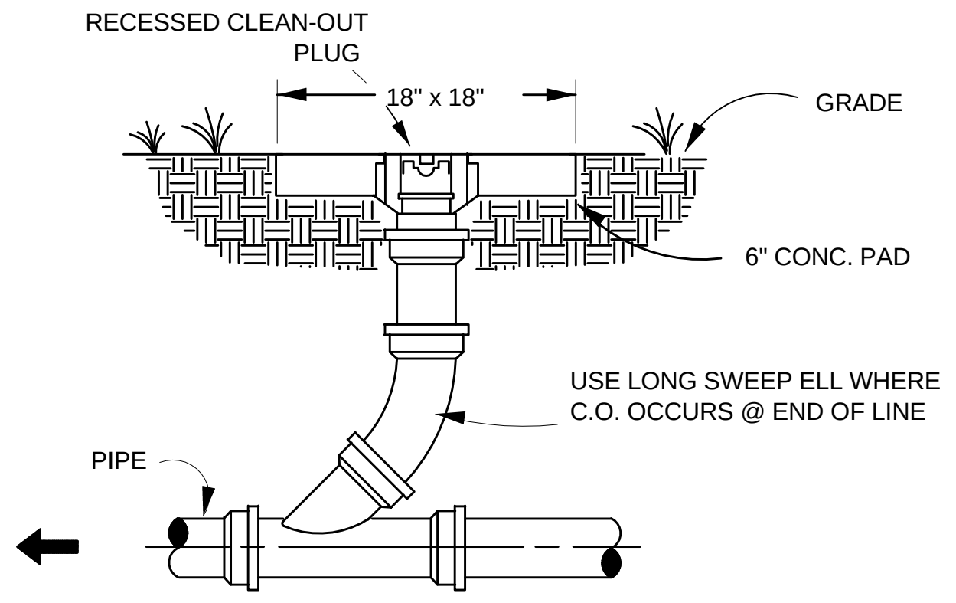
5


PROVIDE A 12" X 12" X 4" CONCRETE PAD AROUND CLEANOUT COVER.
J. R. SMITH 4245, OR EQUAL CAST IRON CLEANOUT WITH COVER
FINISH GRADE OR PAVING
FINISH FLOOR
EXTENSION SAME SIZE AS SEWER UP TO 4" DIAMETER
SEWER MATERIAL AND SIZE AS REQUIRED
LONG SWEEP BEND OR COMBINATION 'Y' & BEND (REDUCING TYPE WHERE REQUIRED)
EXTERIOR
INTERIOR

CLEANOUT SCHEMATIC

SCALE: NONE

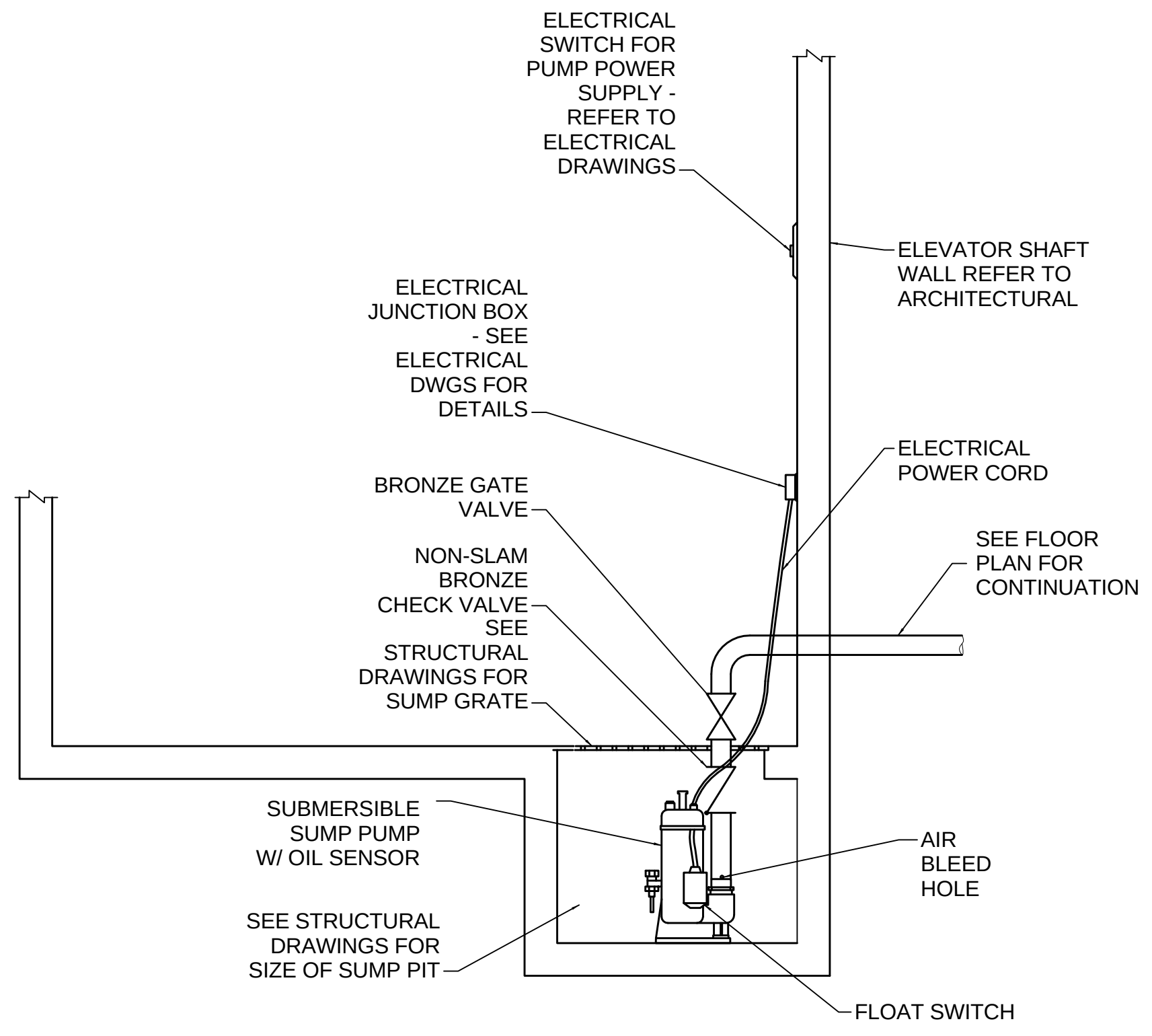
6



EXTERIOR CLEANOUT SCHEMATIC

SCALE: NONE

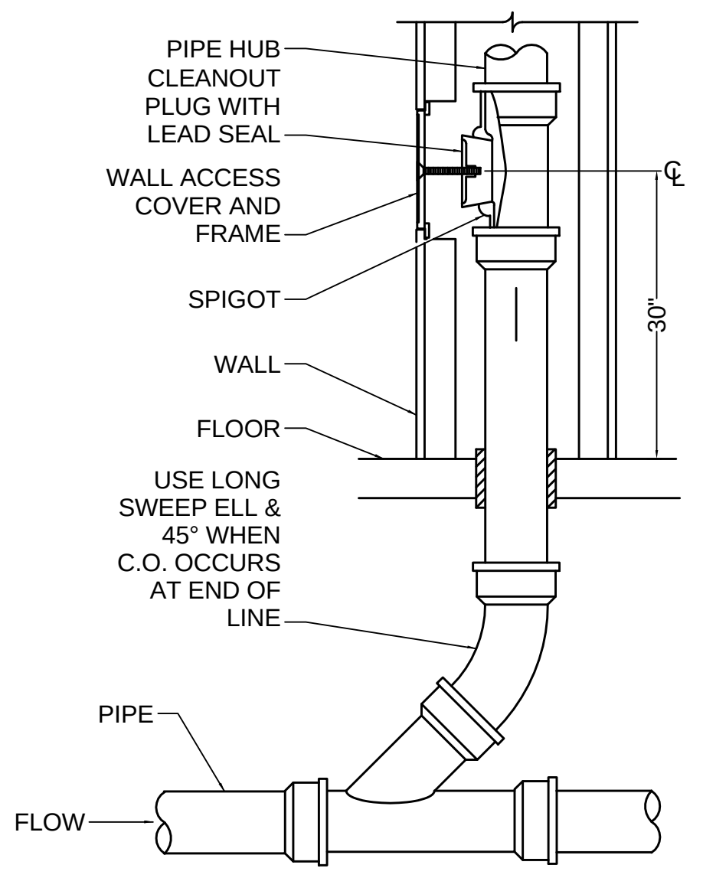
7


ELECTRICAL SWITCH FOR PUMP POWER SUPPLY - REFER TO ELECTRICAL DRAWINGS
ELEVATOR SHAFT WALL REFER TO ARCHITECTURAL
ELECTRICAL JUNCTION BOX - SEE ELECTRICAL DWGS FOR DETAILS
ELECTRICAL POWER CORD
BRONZE GATE VALVE
SEE FLOOR PLAN FOR CONTINUATION
NON-SLAM BRONZE CHECK VALVE
SEE STRUCTURAL DRAWINGS FOR SUMP GRATE
SUBMERSIBLE SUMP PUMP W/ OIL SENSOR
AIR BLEED HOLE
SEE STRUCTURAL DRAWINGS FOR SIZE OF SUMP PIT
FLOAT SWITCH

SIMPLEX SUMP DETAIL

SCALE: NONE

8


PIPE HUB CLEANOUT PLUG WITH LEAD SEAL
WALL ACCESS COVER AND FRAME
SPIGOT
WALL
FLOOR
USE LONG SWEEP ELL & 45° WHEN C.O. OCCURS AT END OF LINE
PIPE
FLOW
℄
30"

WALL CLEAN-OUT DETAIL

SCALE: NONE

9

SEE SHEETS M202 AND M203 FOR FIRE STOP DETAILS OF PIPE PENETRATIONS

10

PMC POWER MANAGEMENT CORPORATION
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PROJECT #
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STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER PE-2007009102
2-15-19
ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
DETAILS - PLUMBING

SHEET
P301

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AIR DISTRIBUTION DEVICES

SYMBOL	DESCRIPTION	MFR / MDL	NOM. SIZE	NECK SIZE	RUN OUT SIZE	MAX CFM	MAX NC	MAX TP	OPTIONS
SUPPLY DIFFUSERS									
☒	STEEL, SQUARE, LOUVERED FACE - FOR ACOUSTICAL TILE AND GYPSUM CEILINGS	PRICE / SCD	12" x 12"	6"ø	8"ø / 8"x6"	175	25	0.20"	FOUR-WAY, SQUARE PATTERN THROW, WHITE FINISH, ROUND COLLAR, REQUIRED BORDER FOR ASSOCIATED CEILING CONSTRUCTION
				8"ø	10"ø / 12"x6"	220	25	0.20"	
			24" x 24"	6"ø	6"ø / 6"x6"	90	25	0.12"	
				6"ø	8"ø / 10"x6"	190	25	0.12"	
				8"ø	10"ø / 10"x8"	300	25	0.12"	
				10"ø	12"ø / 14"x8"	425	25	0.12"	
				12"ø	12"ø / 16"x8"	550	25	0.12"	
				14"ø	14"ø / 16"x10"	725	25	0.12"	
▯	ALUMINUM, LINEAR SLOT - FOR GYPSUM CEILINGS - (1) 1" SLOTS W/ SDB INSULATED PLENUM & FACE OPERATED REMOTE DAMPER	PRICE / SDS100 & SDB	60"	6" ROUND INLET	TRANSITION FROM DUCT SIZE ON PLANS TO 6" ROUND INLET	200 CFM	30	0.254"	FACE OPERATED REMOTE DAMPER (VCR8EC)
	ALUMINUM, LINEAR SLOT - FOR GYPSUM CEILINGS - (2) 1" SLOTS W/ SDB INSULATED PLENUM & FACE OPERATED REMOTE DAMPER	PRICE / SDS100 & SDB	60"	7" ROUND INLET	TRANSITION FROM DUCT SIZE ON PLANS TO 7" ROUND INLET	370 CFM	32	0.214"	
RETURN AND EXHAUST GRILLES									
⧄ ⧅	STANDARD DUTY, ALUMINUM CONSTRUCTION EGGCRATE GRILLE - 1/2"x1/2"x1/2" CORE FOR CEILING RETURN AND EXHAUST	PRICE / 80	12" x 12"	10" x 10"	6"ø / 6"x6"	80	20	0.05"	WHITE FINISH, SQUARE NECK WITH ROUND COLLAR ADAPTER, REQUIRED BORDER, FOR ASSOCIATED CONSTRUCTION
				10" x 10"	8"ø / 10"x6"	160	20	0.05"	
			24" x 24"	22" x 22"	6"ø / 6"x6"	80	20	0.05"	
				22" x 22"	8"ø / 10"x6"	160	20	0.05"	
				22" x 22"	10"ø / 12"x8"	300	20	0.05"	
				22" x 22"	12"ø / 16"x8"	480	20	0.05"	
				22" x 22"	14"ø / 16"x10"	700	20	0.05"	
				22" x 22"	16"ø / 22"x10"	1000	20	0.05"	
				22" x 22"	18"ø / 22"x14"	1600	20	0.05"	
TRANSFER GRILLES									
⧄	STANDARD DUTY, ALUMINUM CONSTRUCTION EGGCRATE GRILLE - 1/2"x1/2"x1/2" CORE - FOR CEILING TRANSFER	PRICE / EGC5	12" x 12"	10" x 10"	-	180	-	0.01"	WHITE FINISH U.O.N., REQUIRED BORDER FOR ASSOCIATED CONSTRUCTION
			24" x 24"	22" x 22"	-	940	-	0.01"	
RETURN/EXHAUST AIR REGISTERS									
SAR →	ALUMINUM, DOUBLE DEFLECTION, 3/4-INCH BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIRECTION - FOR SIDEWALL SUPPLY.	PRICE/620D	AS NOTED	-	AS NOTED	-	-	-	WHITE FINISH U.O.N., OPPOSED BLADE DAMPER, REQUIRED BORDER FOR ASSOCIATED CONSTRUCTION.
DSAR →	ALUMINUM, DOUBLE DEFLECTION, 3/4-INCH BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION - FOR SPIRAL DUCT MOUNTED SIDEWALL SUPPLY.	PRICE/620D w/SDF	AS NOTED	-	AS NOTED	-	-	-	WHITE FINISH U.O.N., OPPOSED BLADE DAMPER, SPIRAL DUCT FRAME.
DSAR →	ALUMINUM, DOUBLE DEFLECTION, 3/4-INCH BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, RADIUS END CAPS - FOR SPIRAL DUCT MOUNTED SIDEWALL SUPPLY.	PRICE/SDGE	AS NOTED	-	AS NOTED	-	-	-	PREPARED ALUMINUM FINISH U.O.N., AIR SCOOP DAMPER EXTRACTOR, COUNTERSUNK SCREW HOLES AND CURVED BORDER, FOAM GASKETING.
RSAR →	ALUMINUM, 15° DOWN DEFLECTION, 5/16-INCH BLADE SPACING, DIRECTION VANES, FRONT BLADES PARALLEL TO SHORT DIMENSION - FOR SIDEWALL SUPPLY.	PRICE/RCG	AS NOTED	-	AS NOTED	-	-	-	WHITE POWER COAT FINISH U.O.N., OPPOSED BLADE DAMPER, REQUIRED BORDER FOR ASSOCIATED CONSTRUCTION.
RAR/EAR ←	ALUMINUM, 35 DEGREE FIXED DEFLECTION, 3/4-INCH BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION - FOR SIDEWALL APPLICATIONS	PRICE/630	AS NOTED	-	AS NOTED	-	-	-	WHITE FINISH U.O.N., OPPOSED BLADE DAMPER, REQUIRED BORDER FOR ASSOCIATED CONSTRUCTION

NOTES:
1) ALL AIR DISTRIBUTION DEVICES SHOWN HAVE BEEN SIZED FOR MAX. NC30., UNLESS OTHERWISE NOTED
2) COORDINATE DIFFUSER/GRILLE BORDER W/ ARCHITECTURAL
3) STATIC PRESSURES SHOWN DO NOT INCLUDE FILTERS
4) WHERE PHYSICAL CONDITIONS REQUIRE A FIXED MAXIMUM DUCT HEIGHT, USE SMACNA EQUIVALENT DUCT DIMENSIONS.
5) IN NO CASE SHALL THE DIMENSIONS OF ONE SIDE BE MORE THAN FOUR (4) TIMES THE DIMENSION OF THE OTHER SIDE AND NO DIMENSION SHALL BE LESS THAN SIX (6) INCHES WITHOUT SPECIFIC WRITTEN INSTRUCTIONS FROM THE ENGINEER.

GENERAL HVAC LEGEND

SYMBOL	DESCRIPTION
10"x20"	NEW RECTANGULAR DUCT - SIZE IN INCHES - FIRST FIGURE IS SIZE SHOWN
10"ø	NEW ROUND DUCTWORK W/ MVD
10"ø	EXISTING DUCTWORK
20"x10" ☒	SUPPLY DUCT UP OR DOWN - SIZE IN INCHES - FIRST FIGURE IS TOP
20"x10" ⧄	RETURN DUCT UP OR DOWN - SIZE IN INCHES - FIRST FIGURE IS TOP
20"x10" ⧅	EXHAUST DUCT UP OR DOWN - SIZE IN INCHES - FIRST FIGURE IS TOP
xx"/xx"	INDICATES FLAT OVAL DUCT
Ⓣ	THERMOSTAT - INSTALL 54" AFF UNLESS OTHERWISE NOTED
(TS)	TEMPERATURE SENSOR - INSTALL 54" AFF UNLESS OTHERWISE NOTED
⊘	DUCT SMOKE DETECTOR
⊗ FD	FIRE DAMPER
⊗ FSD	FIRE SMOKE DAMPER
	TYPICAL DUCT TRANSITIONS
10" ▨	EXISTING DUCTWORK TO BE DEMOLISHED
→	AIR FLOW DIRECTIONAL ARROW
⊕	CONNECT TO EXISTING
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IEER	INTGRATED ENERGY EFFICIENCY RATIO
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVER CURRENT PROTECTION
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
WB	WET BULB TEMPERATURE
MCD	MOISTURE CONDENSATE DRAIN
AFMS	AIR FLOW MEASURING STATION

MECHANICAL SHEET INDEX

Sheet Number	Sheet Name
M001	SCHEDULES & LEGENDS - HVAC
M002	SCHEDULES - HVAC
M111	FIRST FLOOR PLAN - HVAC
M112	SECOND FLOOR PLAN - HVAC
M113	THIRD FLOOR PLAN - HVAC
M114	ROOF PLAN - HVAC
M201	DETAILS - HVAC
M202	FIRESTOP DETAILS - HVAC
M203	FIRESTOP DETAILS - HVAC
M301	CONTROLS - HVAC
M302	CONTROLS - HVAC

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DESIGNER: SJA ENGINEER: GHA

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NUMBER PE-2007009102
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TITLE SCHEDULES & LEGENDS - HVAC

SHEET M001

C:\Revit Local\16066 Lee's Summit MOB_PMC CENTRAL_R16_jakhom.rvt
2/15/2019 5:12:26 PM

FAN POWERED BOX SCHEDULE W/ELECTRIC REHEAT

										ELECTRICAL								
										FAN			ELECTRIC HEAT					
TAG	MFG.	MODEL	UNIT SIZE	DUCT RUN-OUT SIZE	PRIMARY AIR FLOW (CFM)	MIN AIR FLOW	PARALLEL FAN AIR FLOW (CFM)	CLG. EAT (°F)	HTG. LAT (°F)	VOLTAGE	PHASE	Hz	KW	STEPS	VOLTS / PHASE / Hz	MCA (A)	MOCP (A)	ACCS.
FPB 1-1-1	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 1-1-2	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 1-1-3	TRANE	VPEF	06	8"	350	125	225	64.64	91.62	277	1	60	3.0	2	480/3	5.39	15	A, B, C, D, E, F, G, H
FPB 1-2-1	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 1-2-2	TRANE	VPEF	10	12"	850	850	550	65.91	94.64	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 1-2-3	TRANE	VPEF	08	8"	400	125	150	65.91	94.64	277	1	60	2.5	2	277/1	11.91	15	A, B, C, D, E, F, G, H
FPB 1-3-1	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 1-3-2	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 1-3-3	TRANE	VPEF	08	8"	400	125	150	67.94	95.82	277	1	60	2.5	2	277/1	11.91	15	A, B, C, D, E, F, G, H
FPB 2-1-1	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-1-2	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-1-3	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-1-4	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-2-1	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-2-2	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-2-3	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-2-4	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-3-1	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-3-2	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-3-3	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H
FPB 2-3-4	TRANE	VPEF	10	12"	850	850	550	67.94	95.82	277	1	60	7.5	2	480/3	13.28	15	A, B, C, D, E, F, G, H

ACCESSORIES:

A: DDC CONTROL INTERFACE
B: ACTUATOR CONTROLLER IN NEMA 1 ENCLOSURE
C: 24 VOLT TRANSFORMER & DISCONNECT
D: FACTORY-INSULATED CASING
E: ZONE TEMPERATURE SENSOR
F: AIRFLOW SWITCH
G: PSC MOTOR
H: MERCURY CONTACTORS

REMARKS:

1. OBSERVE ALL MANUFACTURERS CLEARANCE REQUIREMENTS
2. ALL TERMINAL BOXES SHOWN ARE PARALLEL FAN TERMINAL UNITS W/ ELECTRIC REHEAT AS SCHEDULED
3. ALL TERMINAL DEVICES MUST COMMUNICATE THRU JCI DDC CONTROL SYSTEM - LOCAL THERMOSTATS ARE NOT PERMITTED
4. MAXIMUM NOISE CRITERIA LESS THAN 30
5. ALL BOXES TO HAVE SINGLE POINT POWER CONNECTION WITH "TAPPABLE" POWERED DISCONNECT
6. ALL FAN POWERED BOXES TO HAVE FILTER RACKS WITH 1" THROWAWAY FILTERS. PROVIDE NEW FILTERS UPON CONCLUSION OF CONSTRUCTION.

SINGLE DUCT VAV TERMINAL UNIT SCHEDULE

						AIRFLOW DATA		ELECTRIC HEAT DATA					
TAG	MFG.	MODEL / SIZE	DUCT RUNOUT SIZE	CLG. EAT (°F)	HTG. LAT (°F)	DESIGN AIR FLOW	MIN. AIRFLOW	KW	STEPS	VOLTS / PHASE	MCA (A)	MOCP (A)	ACCESSORIES
VAV 1-1-1	TRANE	VCEF08	10"ø	55	-	550 CFM	175 CFM	-	-	-	-	-	A, B, C, D, E, F, G
VAV 1-1-2	TRANE	VCEF08	10"ø	55	73	650 CFM	175 CFM	1.0	2	277/1	4.51	15	A, B, C, D, E, F, G
VAV 1-2-1	TRANE	VCEF08	8"ø	55	-	350 CFM	125 CFM	-	-	-	-	-	A, B, C, D, E, F, G
VAV 1-2-2	TRANE	VCEF04	6"ø	55	-	100 CFM	50 CFM	-	-	-	-	-	A, B, C, D, E, F, G
VAV 1-2-3	TRANE	VCEF08	8"ø	55	80	350 CFM	125 CFM	1.0	2	277/1	4.51	15	A, B, C, D, E, F, G
VAV 1-3-1	TRANE	VCEF08	8"ø	55	-	350 CFM	200 CFM	-	-	-	-	-	A, B, C, D, E, F, G
VAV 1-3-2	TRANE	VCEF04	6"ø	55	-	100 CFM	50 CFM	-	-	-	-	-	A, B, C, D, E, F, G
VAV 1-3-3	TRANE	VCEF08	10"ø	55	76	450 CFM	150 CFM	1.0	2	277/1	4.51	15	A, B, C, D, E, F, G

ACCESSORIES:

A: JCI DDC CONTROL INTERFACE
B: ACTUATOR CONTROLLER IN NEMA 1 ENCLOSURE
C: 24 VOLT TRANSFORMER & DISCONNECT
D: FACTORY-INSULATED CASING
E: ZONE TEMPERATURE SENSOR
F: AIRFLOW SWITCH
G: MERCURY CONTACTORS

REMARKS:

1. OBSERVE ALL MANUFACTURERS CLEARANCE REQUIREMENTS
2. ALL TERMINAL BOXES SHOWN ARE PARALLEL FAN BOXES OR SINGLE DUCT TERMINAL UNITS W/ ELECTRIC REHEAT AS SCHEDULED
3. ALL TERMINAL DEVICES MUST COMMUNICATE THRU DDC CONTROL SYSTEM - LOCAL THERMOSTATS ARE NOT PERMITTED
4. MAXIMUM NOISE CRITERIA LESS THAN 30
5. ALL BOXES TO HAVE SINGLE POINT POWER CONNECTION WITH "TAPPABLE" POWERED DISCONNECT

EXHAUST FAN SCHEDULE

TAG	MFG.	MODEL	AREA SERVED	TYPE	CFM	ESP (IN)	SONES	ELECTRICAL	HP	WEIGHT, LBS.	ACCS.
EF-1	GREENHECK	G-183-VG	GEN. EXHAUST	ROOF MOUNTED	3,375	1.25	16.1	208/1/60	2.0	83	A, B, C, D
EF-2	GREENHECK	G-133-VG	GEN. EXHAUST	ROOF MOUNTED	1,800	1.0	14.2	120/1/60	0.75	48	A, B, C, D

ACCESSORIES:
A. SAFETY DISCONNECT
B. BACKDRAFT DAMPER
C. AIRFLOW MEASURING STATION
D. VFD

REMARKS:
1. UNIT SHALL BE UL LISTED.

DX ROOFTOP UNIT SCHEDULE

TAG	RTU-1	RTU-2
SERVICE	SEE PLANS	SEE PLANS
MANUFACTURER	TRANE	TRANE
MODEL	RX075004	RX075004
DIMENSIONS (LxWxH)	369" x 117" x 88	369" x 117" x 88
UNIT WEIGHT (LBS)	12,470	12,470
TOTAL AIRFLOW CFM	25,000	25,000
O.A. MINIMUM CFM	3,000	3,000
O.A. MAXIMUM CFM	25,000	25,000
# OF SUPPLY FAN	2	2
MOTOR HP / BHP	(2) 20.0 / (2) 18.02	(2) 20.0 / (2) 18.02
ISP (IN W.C.)	2.55	2.55
ESP (IN W.C.)	2.50 NOTE 8	2.50 NOTE 8
TSP (IN W.C.)	6.05	6.05
FAN RPM	1,803	1,803
EMERGENCY POWER	-	-
# OF RELIEF FAN	3	3
AIRFLOW CFM	22,000	22,000
ESP (IN W.C.)	1.0	1.0
MOTOR HP / BHP	(3) 7.7 / (3) 3.82	(3) 7.7 / (3) 3.82
MAX FAN RPM	1,895	1,895
EMERGENCY POWER	-	-
COOLING CAPACITY		
TOTAL CAPACITY (MBH)	856.92	856.92
SENSIBLE CAPACITY (MBH)	653.90	653.90
EAT (DB / WB °F)	77.0 / 64.8	77.0 / 64.8
LAT (DB / WB °F) COIL	53.2 / 50.1	53.2 / 50.1
LAT (DB / WB °F) UNIT	57.4 / 54.9	57.4 / 54.9
REFRIGERANT TYPE	R410A	R410A
AMBIENT TEMP (DB / WB °F)	95 / 78	95 / 78
PRE FILTER	2" MERV 8 PANEL	2" MERV 8 PANEL
FINAL FILTERS	2" MERV 8 & 14 CARTRIDGE	2" MERV 8 & 14 CARTRIDGE
VFDS	NOTE 6	NOTE 6
EER	11.4	11.4
VOLTAGE/PHASE/Hz	480/3/60	480/3/60
MCA	215	215
MOCP	225	225
NO. OF COMPRESSORS / STAGES	4 / 4	4 / 4

ACCESSORIES:
A. DIGITAL SCROLL COMPRESSORS - UNIT CAPACITY STEPS FROM 15 - 100% CAPACITY.
B. 100% INTEGRATED DRY BULB ECONOMIZER WITH LOW LEAK SEALS.
C. HOT GAS BY-PASS.
D. VAV MICROPROCESSOR CONTROL WITH BACNET INTERFACE.
E. SLOPED STAINLESS STEEL DRAIN PAN.
F. NON-FUSED UNIT DISCONNECT.
G. LOUVERED HAIL GUARDS.
H. NEMA MG1 PART 31 COMPLIANT MOTOR. FAN MOTORS WITH SUPPLY & RELIEF VFD'S.
I. LOW AMBIENT OPERATION TO 0 DEG. F.
J. PROVIDE DOUBLE WALL CONSTRUCTION.
K. PROVIDE R-4.3 INSULATION (MINIMUM)
L. PROVIDE STANDARD 18" ROOF CURB WITH 12" SPRING ISOLATION RAIL. ROOF CURB AND SPRING ISOLATION RAIL SHALL BE CAPABLE OF WITHSTANDING WIND LOADS OF 120 MPH. ROOFTOP UNIT TO BE PERMANENTLY ATTACHED TO CURB AND CURB TO STRUCTURE. AS A DELEGATED ENGINEERING DESIGN, SUBMIT ANCHORAGE DETAILS AND CALCULATIONS STAMPED BY A REGISTERED STRUCTURAL ENGINEER.
M. EBTRON GTC116-P+ AIRFLOW MEASURING STATION AT OUTSIDE AIR INTAKE.

REMARKS:
1. PROVIDE CLOGGED FILTER SWITCHES / GAUGES ON ALL FILTER BANKS.
2. FINAL FILTERS TO BE LOCATED IN UNIT.
3. UNIT TO BE ETL LISTED.
4. LOCK DOWN SUPPLY FAN AND RELIEF FAN VIBRATION ISOLATION SPRINGS INTERNAL TO UNIT.
5. UNIT WEIGHT DOES NOT INCLUDE CURB.
6. VARIABLE FREQUENCY DRIVES FOR SUPPLY AND EXHAUST FANS TO BE PROVIDED WITH INTEGRAL BYPASS.
7. 0.75" STATIC PRESSURE ADDED TO EXTERNAL STATIC PRESSURE (ESP) FOR DIRTY FILTER ALLOWANCE.
8. FLOAT SWITCH TO ALARM BAS.
9. SINGLE POINT POWER CONNECTION.

ELECTRIC HEATER SCHEDULE

I.D.	MFG.	MODEL	AREA SERVED	TYPE	CFM	OUTPUT (Kw)	HEATING CAPACITY (MBH)	ELECTRICAL	AMPS	ACCS.
EWH-1	RAYWALL	AFA730D	STAIR 1	SURFACE MOUNTED	175	3	10.35	277/1/60	10.8	B, C, D
EWH-2	RAYWALL	AFA730D	FIRE PUMP	RECESSED	175	3	10.35	277/1/60	10.8	A, B, C
EWH-3	RAYWALL	AFA730D	STAIR 1	SURFACE MOUNTED	175	3	10.35	277/1/60	10.8	B, C, D

ACCESSORIES:
A: SEMI RECESSED MOUNTING ADAPTER
B: INTEGRAL THERMOSTAT
C: DISCONNECT SWITCH
D: SURFACE MOUNTING ADAPTER

REMARKS:
1. UNIT SHALL BE UL LISTED.

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PROJECT #: 16066
DESIGNER: SJA ENGINEER: GHA

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PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

GRAYSON N. ADAMS
NUMBER PE-2007009102
2-15-19
ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE SCHEDULES - HVAC

SHEET M002

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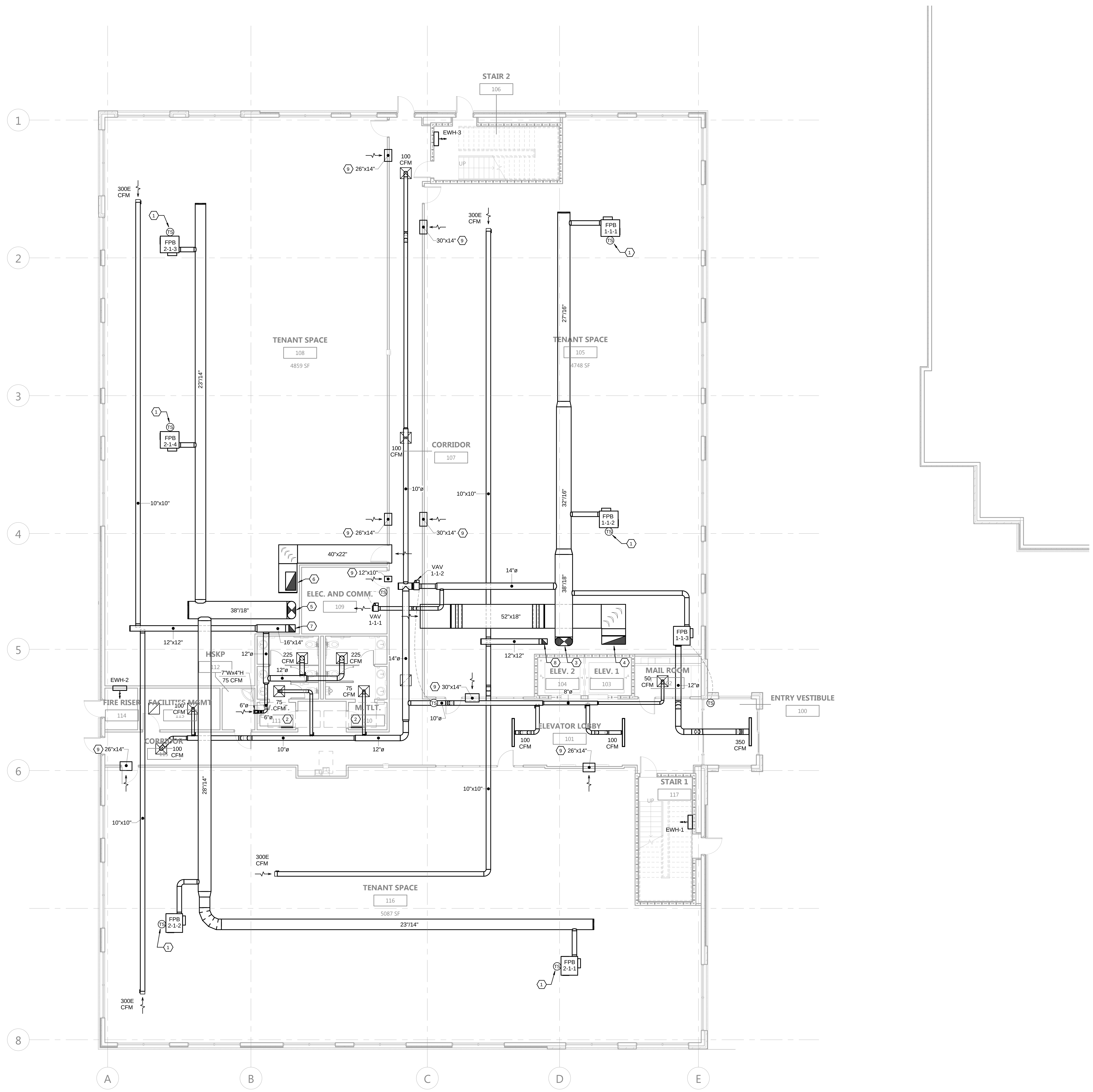

1 FIRST FLOOR PLAN - HVAC

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

GENERAL NOTES:

1. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

2. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER DISCIPLINES PRIOR TO CONSTRUCTION.

3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

4. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

5. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

6. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

PARTITION FIRE RATING LEGEND

═S═S═	SMOKE PARTITION
═◆═◆═	1-HR FIRE BARRIER
═◆S═◆S═	1-HR FIRE/SMOKE BARRIER
═◆◆═◆◆═	2-HR FIRE BARRIER
═◆◆S═◆◆S═	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES: ⟨#⟩

1. PROVIDE TEMPERATURE SENSOR WITH 20'-0" OF CONTROL WIRE. HANG SENSOR TO UNIT.
2. 24"W x 10"H DOOR GRILLE WITH TWO SIDED FLAT BORDER EQUAL TO PRICE MODEL ATG1. COORDINATE REQUIRED FINISH AND COLOR WITH ARCHITECT. INSTALL BOTTOM OF GRILLE 12" A.F.F.
3. 38"x18" SUPPLY DUCT DOWN FROM RTU-1. PROVIDE FSD AT FLOOR SLABE PENETRATION.
4. 52"x18" RETURN DUCT DOWN FROM RTU-1. PROVIDE FSD AT FLOOR SLABE PENETRATION.
5. 38"x18" SUPPLY DUCT DOWN FROM RTU-2. PROVIDE FSD AT FLOOR SLABE PENETRATION.
6. 40"x22" RETURN DUCT DOWN FROM RTU-2. PROVIDE FSD AT FLOOR SLABE PENETRATION.
7. 16"x14" EXHAUST DUCT DOWN FROM EF-1. PROVIDE FSD AT FLOOR SLABE PENETRATION.
8. 12"x12" EXHAUST DUCT DOWN FROM EF-2. PROVIDE FSD AT FLOOR SLABE PENETRATION.
9. TRANSFER DUCT OPENING INSTALLED TIGHT TO BOTTOM OF FLOOR DECK ABOVE. (TYP.)

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PROJECT #: 16066
DESIGNER: SJA ENGINEER: GHA

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

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2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER PE-2007009102
2-15-19

ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
FIRST FLOOR PLAN - HVAC

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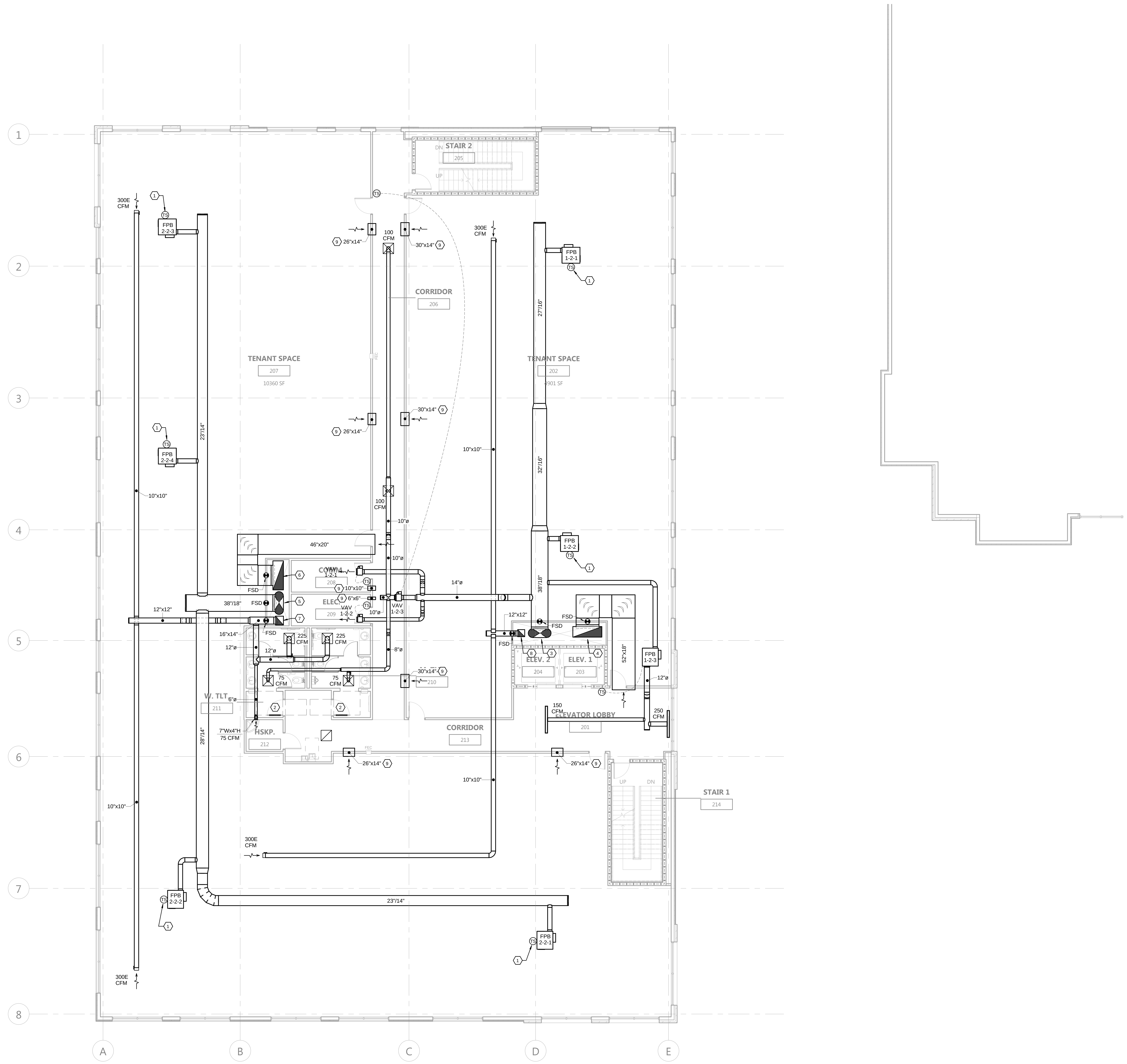

1 SECOND FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

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DESIGNER: SJA ENGINEER: GHA

GENERAL NOTES:

1. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

2. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER DISCIPLINES PRIOR TO CONSTRUCTION.

3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

4. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

5. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

6. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

PARTITION FIRE RATING LEGEND

═S═S═S═	SMOKE PARTITION
═◆═◆═◆═	1-HR FIRE BARRIER
═◆S═◆S═◆S═	1-HR FIRE/SMOKE BARRIER
═◆◆═◆◆═◆◆═	2-HR FIRE BARRIER
═◆◆S═◆◆S═◆◆S═	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES: ⬡#

1. PROVIDE TEMPERATURE SENSOR WITH 20'-0" OF CONTROL WIRE. HANG SENSOR TO UNIT.
2. 24"W x 10"H DOOR GRILLE WITH TWO SIDED FLAT BORDER EQUAL TO PRICE MODEL ATG1. COORDINATE REQUIRED FINISH AND COLOR WITH ARCHITECT. INSTALL BOTTOM OF GRILLE 12" A.F.F.
3. 52"x20" SUPPLY DUCT DOWN FROM RTU-1; TRANSITION TO 38"x18" AND CONTINUE TO FLOOR BELOW.
4. 66"x24" RETURN DUCT DOWN FROM RTU-1; TRANSITION TO 52"x18" AND CONTINUE TO FLOOR BELOW.
5. 52"x20" SUPPLY DUCT DOWN FROM RTU-2; TRANSITION TO 38"x18" AND CONTINUE TO FLOOR BELOW.
6. 66"x24" RETURN DUCT DOWN FROM RTU-2; TRANSITION TO 40"x22" AND CONTINUE TO FLOOR BELOW.
7. 22"x22" EXHAUST DUCT DOWN FROM EF-1; TRANSITION TO 16"x14" AND CONTINUE TO FLOOR BELOW.
8. 16"x16" EXHAUST DUCT DOWN FROM EF-2; TRANSITION TO 12"x12" AND CONTINUE TO FLOOR BELOW.
9. TRANSFER DUCT OPENING INSTALLED TIGHT TO BOTTOM OF FLOOR DECK ABOVE. (TYP.)

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PROJECT #
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Lee's Summit Medical Center
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STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER PE-2007009102
2-15-19
ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
SECOND FLOOR PLAN - HVAC

SHEET
M112

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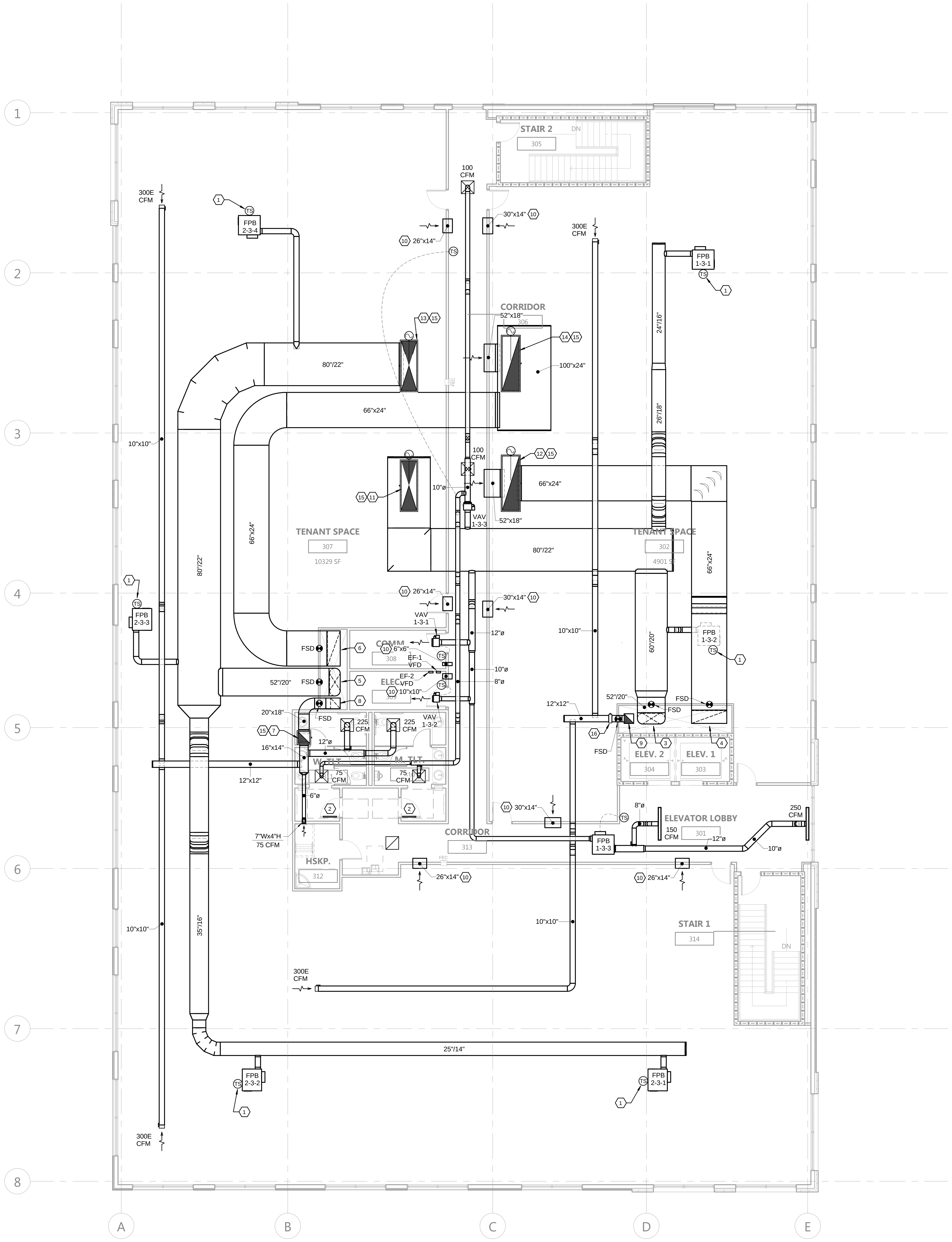

1 THIRD FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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PARTITION FIRE RATING LEGEND

-S—S—S-	SMOKE PARTITION
-♦-♦-♦-♦-	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES:

1. PROVIDE TEMPERATURE SENSOR WITH 20'-0" OF CONTROL WIRE. HANG SENSOR TO UNIT.
2. 24"W x 10"H DOOR GRILLE WITH TWO SIDED FLAT BORDER EQUAL TO PRICE MODEL ATG1. COORDINATE REQUIRED FINISH AND COLOR WITH ARCHITECT. INSTALL BOTTOM OF GRILLE 12" A.F.F.
3. 52"x20" SUPPLY DUCT FROM RTU-1 DOWN TO FLOOR BELOW.
4. 66"x24" RETURN DUCT FROM RTU-1 DOWN TO FLOOR BELOW.
5. 52"x20" SUPPLY DUCT FROM RTU-2 DOWN TO FLOOR BELOW.
6. 66"x24" RETURN DUCT FROM RTU-2 DOWN TO FLOOR BELOW.
7. 22"x22" EXHAUST DUCT DOWN FROM EF-1.
8. 20"x18" EXHAUST DUCT FROM EF-1 DOWN TO FLOOR BELOW.
9. 18"x18" EXHAUST DUCT DOWN FROM EF-2; TRANSITION TO 16"x16" AND CONTINUE TO FLOOR BELOW.
10. TRANSFER DUCT OPENING INSTALLED TIGHT TO BOTTOM OF FLOOR DECK ABOVE. (TYP.)
11. CONNECTION SIZE SUPPLY DUCT DOWN FROM RTU-1 MOUNTED ON ROOF ABOVE.
12. CONNECTION SIZE RETURN DUCT DOWN FROM RTU-1 MOUNTED ON ROOF ABOVE.
13. CONNECTION SIZE SUPPLY DUCT DOWN FROM RTU-2 MOUNTED ON ROOF ABOVE.
14. CONNECTION SIZE RETURN DUCT DOWN FROM RTU-2 MOUNTED ON ROOF ABOVE.
15. MOTORIZED DAMPER WITH 24V ACTUATOR POWERED OPENED. INSTALL IN VERTICAL DUCT.
16. MOTORIZED DAMPER WITH 24V ACTUATOR POWERED OPENED. INSTALL IN HORIZONTAL DUCT.

PMC POWER MANAGEMENT CORPORATION
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PROJECT #: 16066
DESIGNER: SJA ENGINEER: GHA

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

GRAYSON H. ADAMS
NUMBER
PE-2007009102
2-15-19
ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
THIRD FLOOR PLAN - HVAC

SHEET
M113

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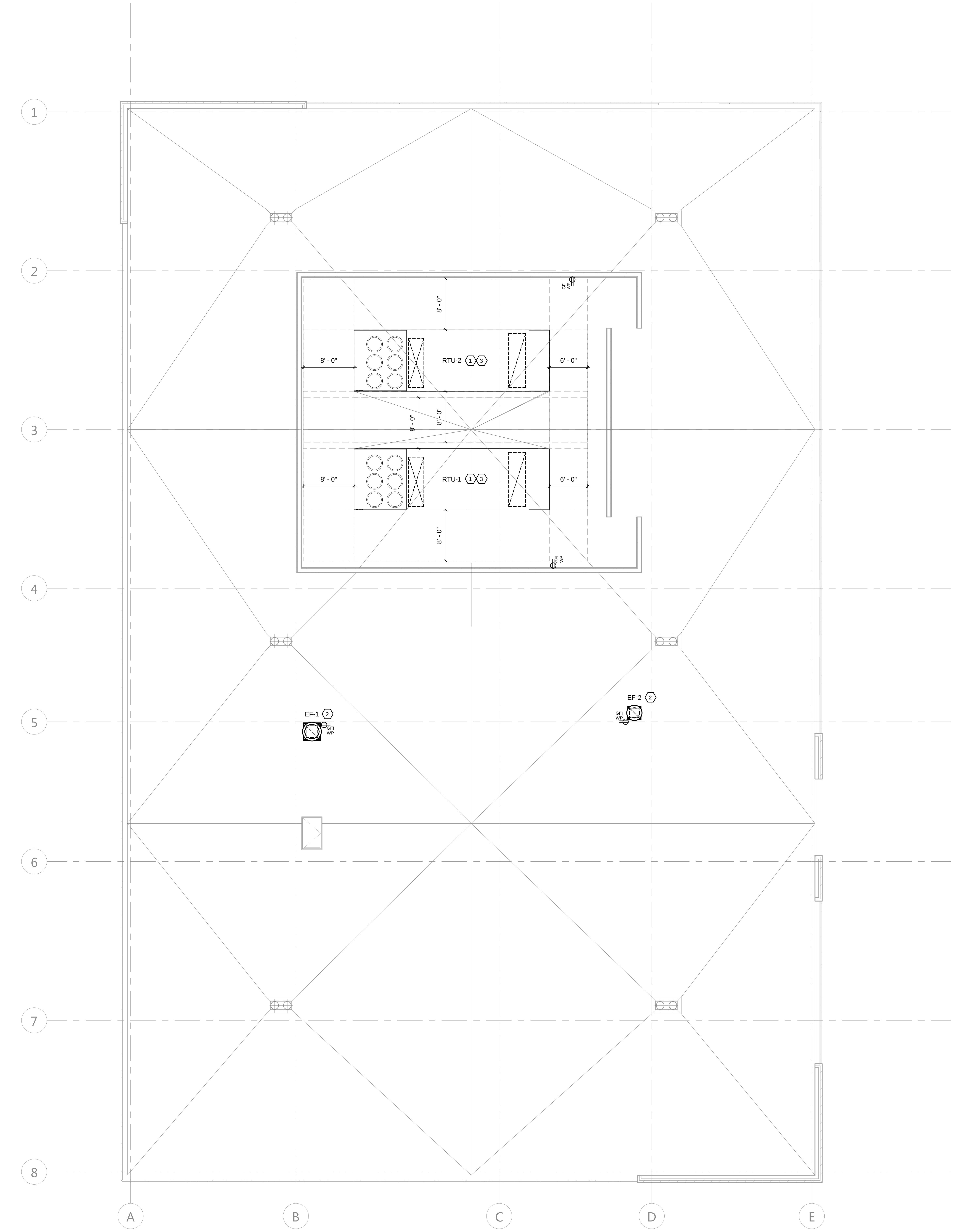

1 ROOF PLAN - HVAC
SCALE: 1/8" = 1'-0"

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GENERAL NOTES:

1. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

2. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER DISCIPLINES PRIOR TO CONSTRUCTION.

3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

4. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

5. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

6. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

PARTITION FIRE RATING LEGEND

-S—S—S-	SMOKE PARTITION
-♦-♦-♦-♦-♦-	1-HR FIRE BARRIER
♦S—♦S—♦S	1-HR FIRE/SMOKE BARRIER
♦♦—♦♦—♦♦	2-HR FIRE BARRIER
♦♦S—♦♦S—♦♦S	2-HR FIRE/SMOKE BARRIER
▭	NON-RATED INTERIOR PARTITION

KEY NOTES:

1. MOUNT ROOFTOP UNIT ON FULL PERIMETER ROOF CURB.
2. INSTALL EXHAUST FAN MIN. OF 10'-0" AWAY FROM OUTSIDE AIR INTAKE.
3. ROUTE CONDENSATE TO NEAREST ROOF DRAIN.

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DATES OF ISSUANCE

TITLE
ROOF PLAN - HVAC

SHEET
M114

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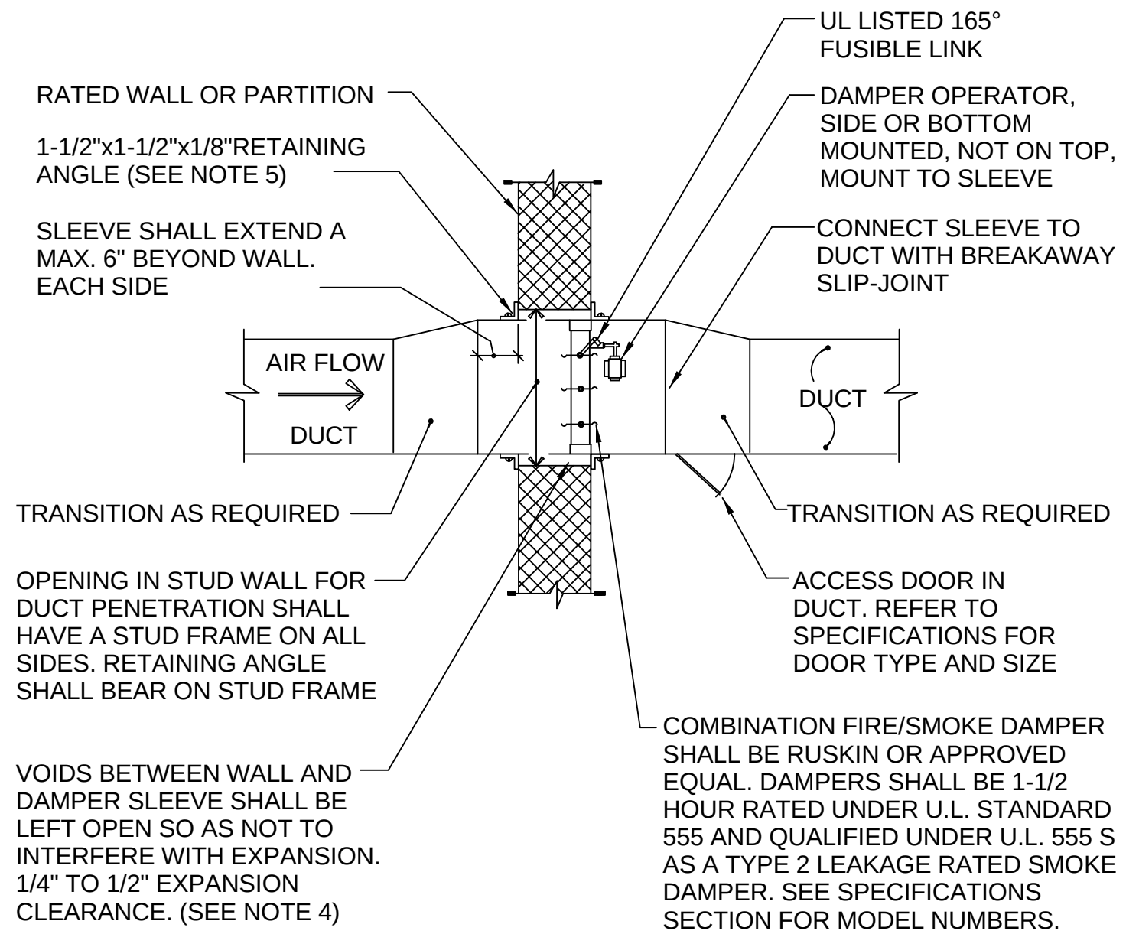
2/15/2019 5:13:26 PM

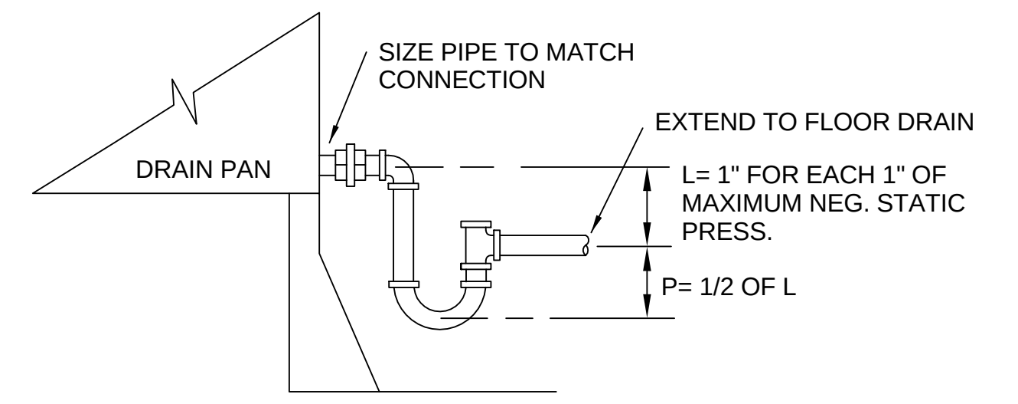

UL LISTED 165° FUSIBLE LINK
RATED WALL OR PARTITION
DAMPER OPERATOR, SIDE OR BOTTOM MOUNTED, NOT ON TOP, MOUNT TO SLEEVE
1-1/2"x1-1/2"x1/8"RETAINING ANGLE (SEE NOTE 5)
SLEEVE SHALL EXTEND A MAX. 6" BEYOND WALL. EACH SIDE
CONNECT SLEEVE TO DUCT WITH BREAKAWAY SLIP-JOINT
AIR FLOW
DUCT
DUCT
TRANSITION AS REQUIRED
TRANSITION AS REQUIRED
OPENING IN STUD WALL FOR DUCT PENETRATION SHALL HAVE A STUD FRAME ON ALL SIDES. RETAINING ANGLE SHALL BEAR ON STUD FRAME
ACCESS DOOR IN DUCT. REFER TO SPECIFICATIONS FOR DOOR TYPE AND SIZE
COMBINATION FIRE/SMOKE DAMPER SHALL BE RUSKIN OR APPROVED EQUAL. DAMPERS SHALL BE 1-1/2 HOUR RATED UNDER U.L. STANDARD 555 AND QUALIFIED UNDER U.L. 555 S AS A TYPE 2 LEAKAGE RATED SMOKE DAMPER. SEE SPECIFICATIONS SECTION FOR MODEL NUMBERS.
VOIDS BETWEEN WALL AND DAMPER SLEEVE SHALL BE LEFT OPEN SO AS NOT TO INTERFERE WITH EXPANSION. 1/4" TO 1/2" EXPANSION CLEARANCE. (SEE NOTE 4)

NOTES:

1. PROVIDE U.L. LISTED DAMPER, SLEEVE AND OPERATOR ASSEMBLY IN ACCORDANCE WITH U.L. 555.
2. INSTALL DAMPER AND SLEEVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE MIN. 14 GAUGE SLEEVE. EXTEND ABOVE WALL MAX. 6 INCHES, AND MOUNT OPERATOR ON SLEEVE.
4. PROVIDE EXPANSION SPACE PER MANUFACTURER'S INSTRUCTION. BUT NOT LESS THAN 1/8" PER LINEAR FOOT.
5. PROVIDE A MINIMUM 1-1/2" x 1-1/2" x 1/8" RETAINING ANGLE ON TOP, BOTTOM AND SIDES. ATTACH ANGLES TO SLEEVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DAMPER SHALL BE SELF SUPPORTING, INDEPENDENT OF DUCTWORK. PROVIDE ANGLES ON EACH SIDE OF WALL. ANGLES SHALL OVERLAP WALL A MINIMUM OF ONE INCH.
6. SEE PLANS FOR DAMPER SIZING LARGER THAN DUCTS REQUIRING TRANSITION PIECES.
7. VERTICAL POSITION SHOWN. HORIZONTAL INSTALLATION SIMILAR.

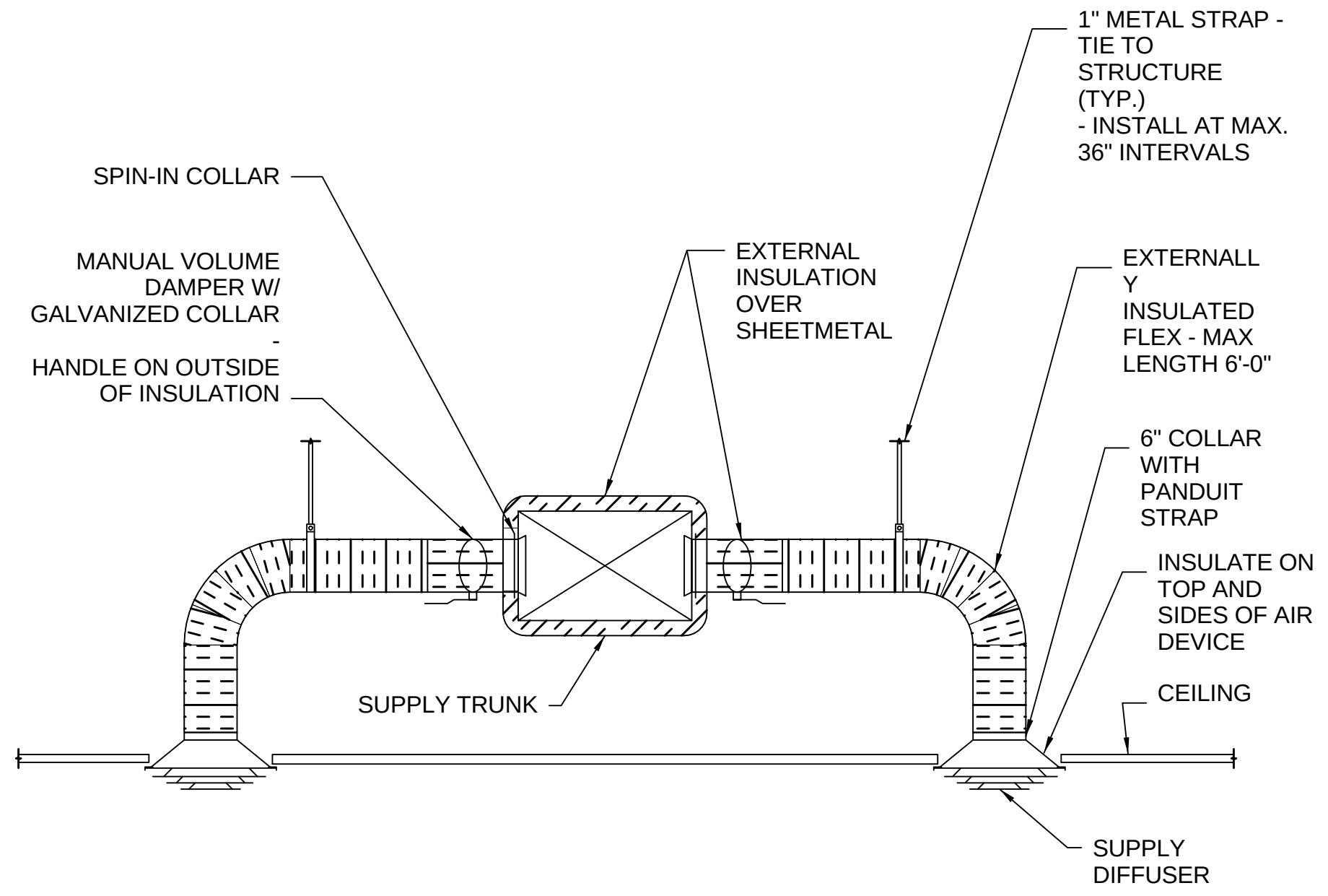
COMBINATION FIRE/SMOKE DAMPER DETAIL

SCALE: NO SCALE


DRAIN PAN
SIZE PIPE TO MATCH CONNECTION
EXTEND TO FLOOR DRAIN
L= 1" FOR EACH 1" OF MAXIMUM NEG. STATIC PRESS.
P= 1/2 OF L

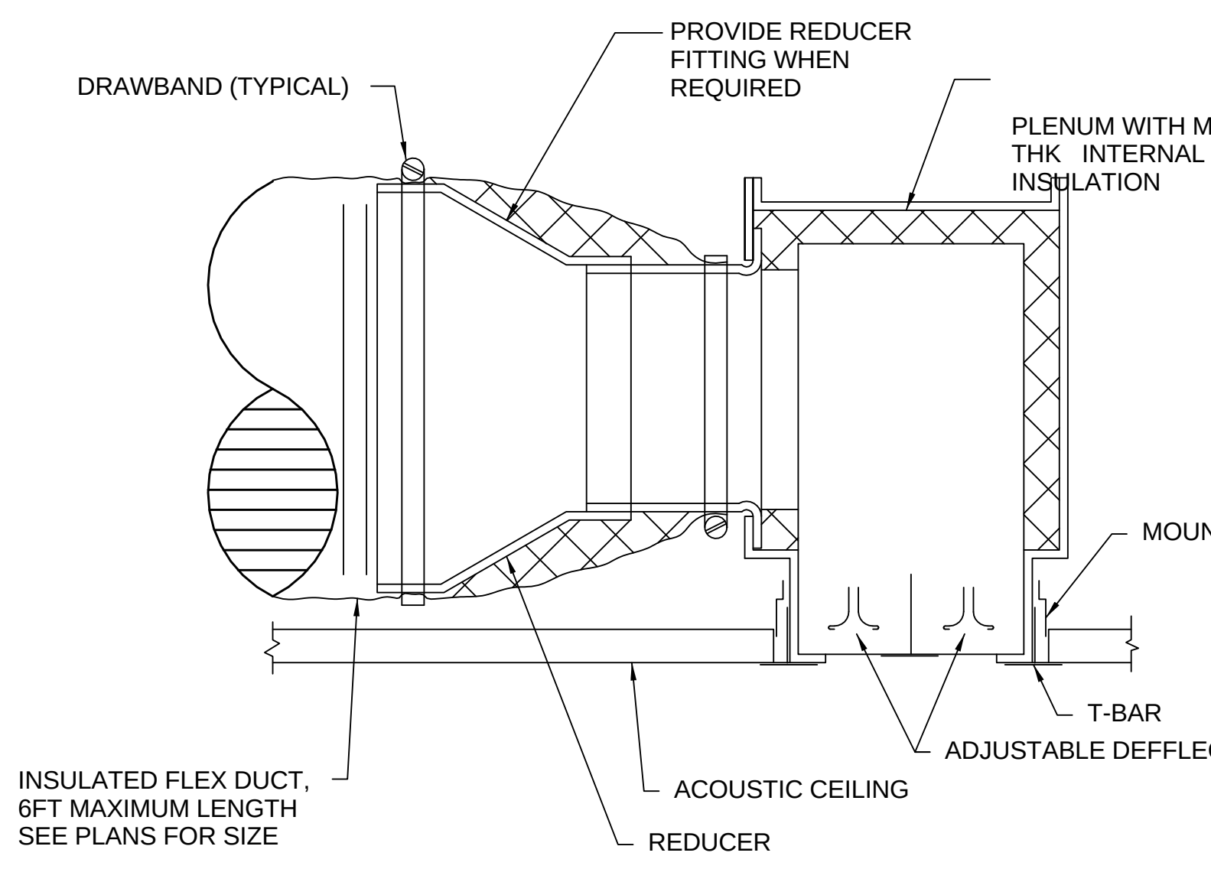
DRAW THRU CONDENSATE DETAIL

SCALE: NO SCALE


1" METAL STRAP - TIE TO STRUCTURE (TYP.) - INSTALL AT MAX. 36" INTERVALS
SPIN-IN COLLAR
MANUAL VOLUME DAMPER W/ GALVANIZED COLLAR - HANDLE ON OUTSIDE OF INSULATION
EXTERNAL INSULATION OVER SHEETMETAL
EXTERNALL Y INSULATED FLEX - MAX LENGTH 6'-0"
6" COLLAR WITH PANDUIT STRAP
INSULATE ON TOP AND SIDES OF AIR DEVICE
CEILING
SUPPLY TRUNK
SUPPLY DIFFUSER

FLEX DUCT TO DIFFUSER DETAIL

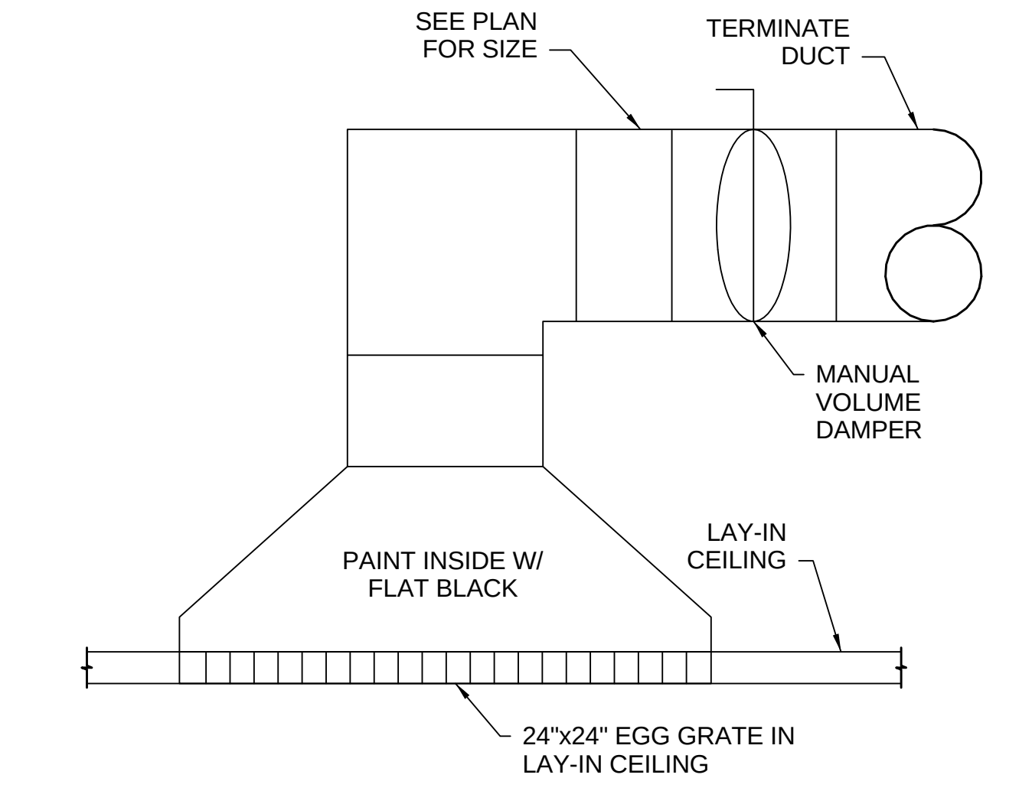
SCALE: NO SCALE


PROVIDE REDUCER FITTING WHEN REQUIRED
DRAWBAND (TYPICAL)
PLENUM WITH MINIMUM 1/2" THK INTERNAL INSULATION
MOUNTING CLIP
T-BAR
ADJUSTABLE DEFFLECTORS
INSULATED FLEX DUCT, 6FT MAXIMUM LENGTH SEE PLANS FOR SIZE
ACOUSTIC CEILING
REDUCER

NOTE:
1. EXTEND INSULATION ONTO NECK OF PLENUM. UNINSULATED SHEET METAL SHALL NOT BE ACCEPTABLE.
2. PROVIDE AIR BALANCE DEVICE AT GRILLE FACE FOR SLOTS LOCATED IN GYP. CEILING.

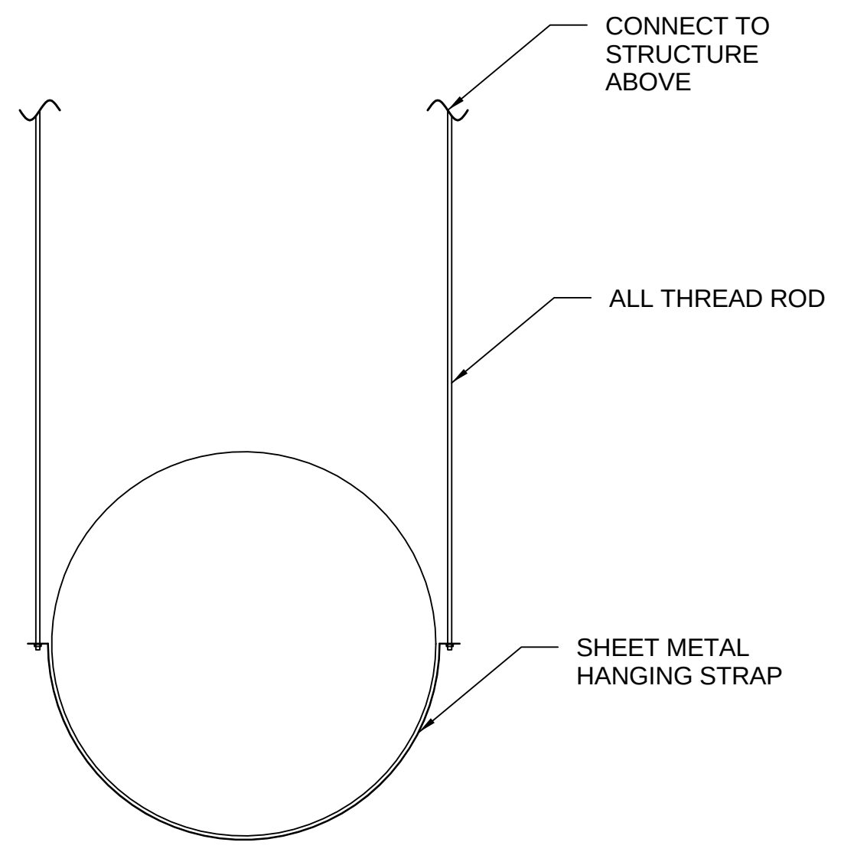
LINEAR SLOT DIFFUSER DETAIL

SCALE: NO SCALE



EXHAUST GRILLE DETAIL

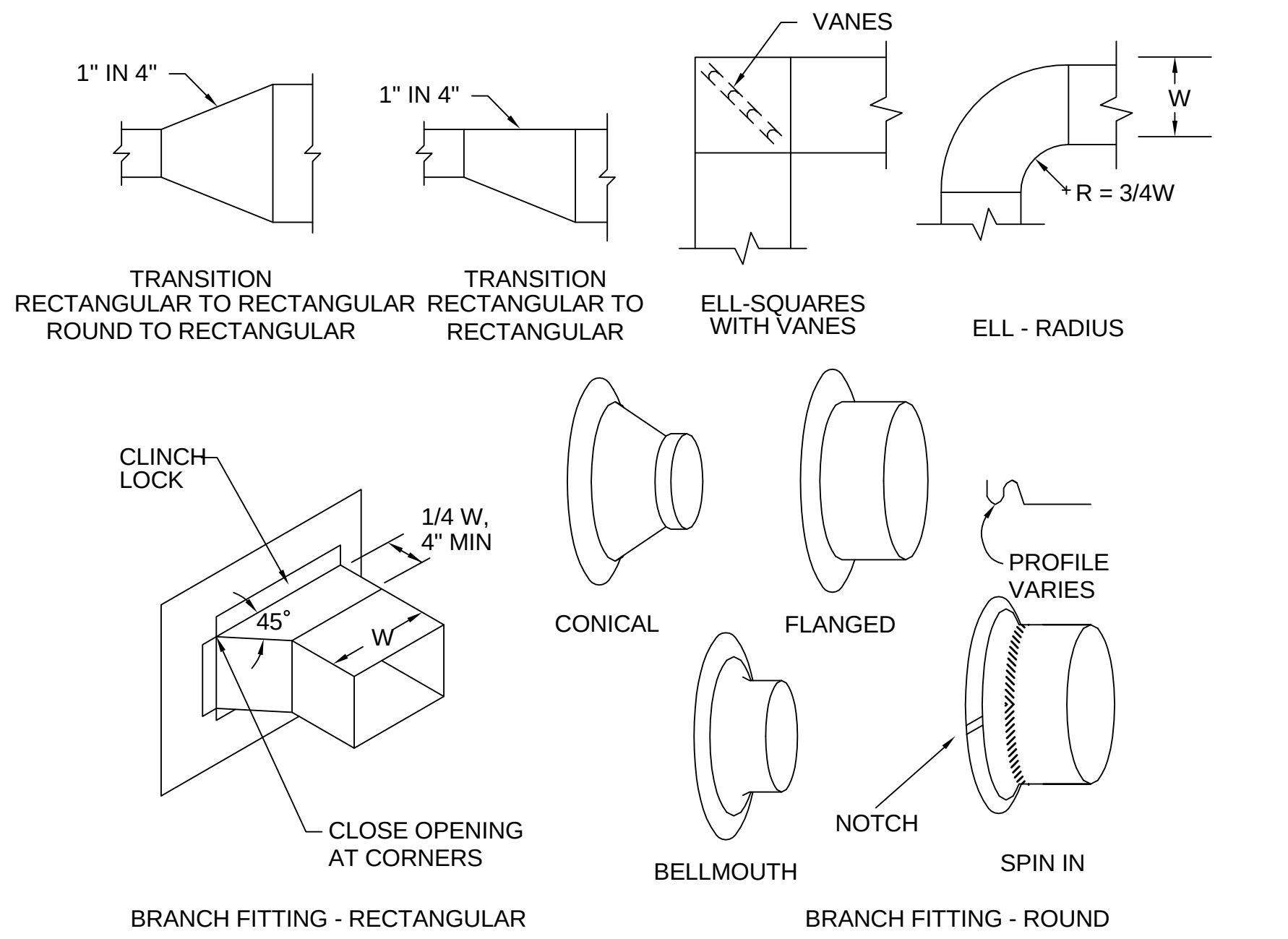
SCALE: NO SCALE



NOTE:
FOR DUCTS OVER 24" WIDE

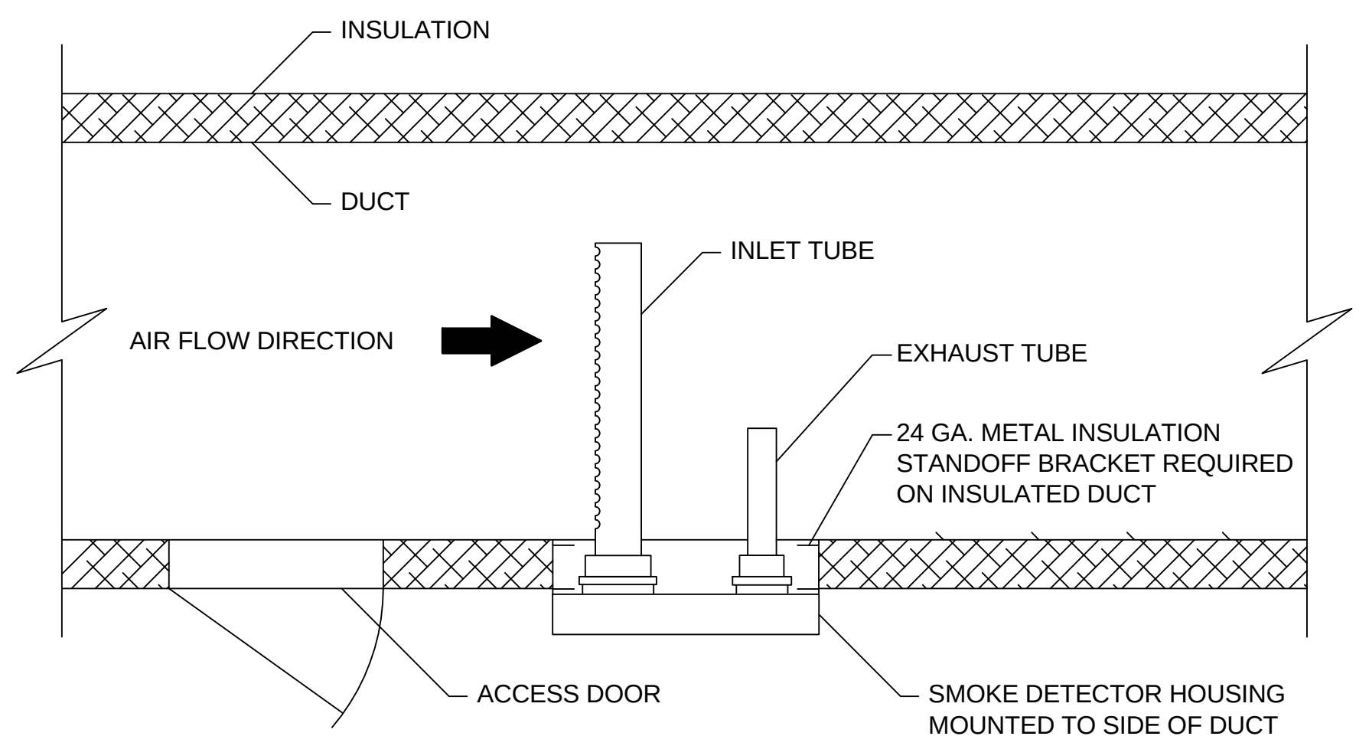
ROUND DUCT HANGER DETAIL

SCALE: NO SCALE



DUCTWORK FITTINGS

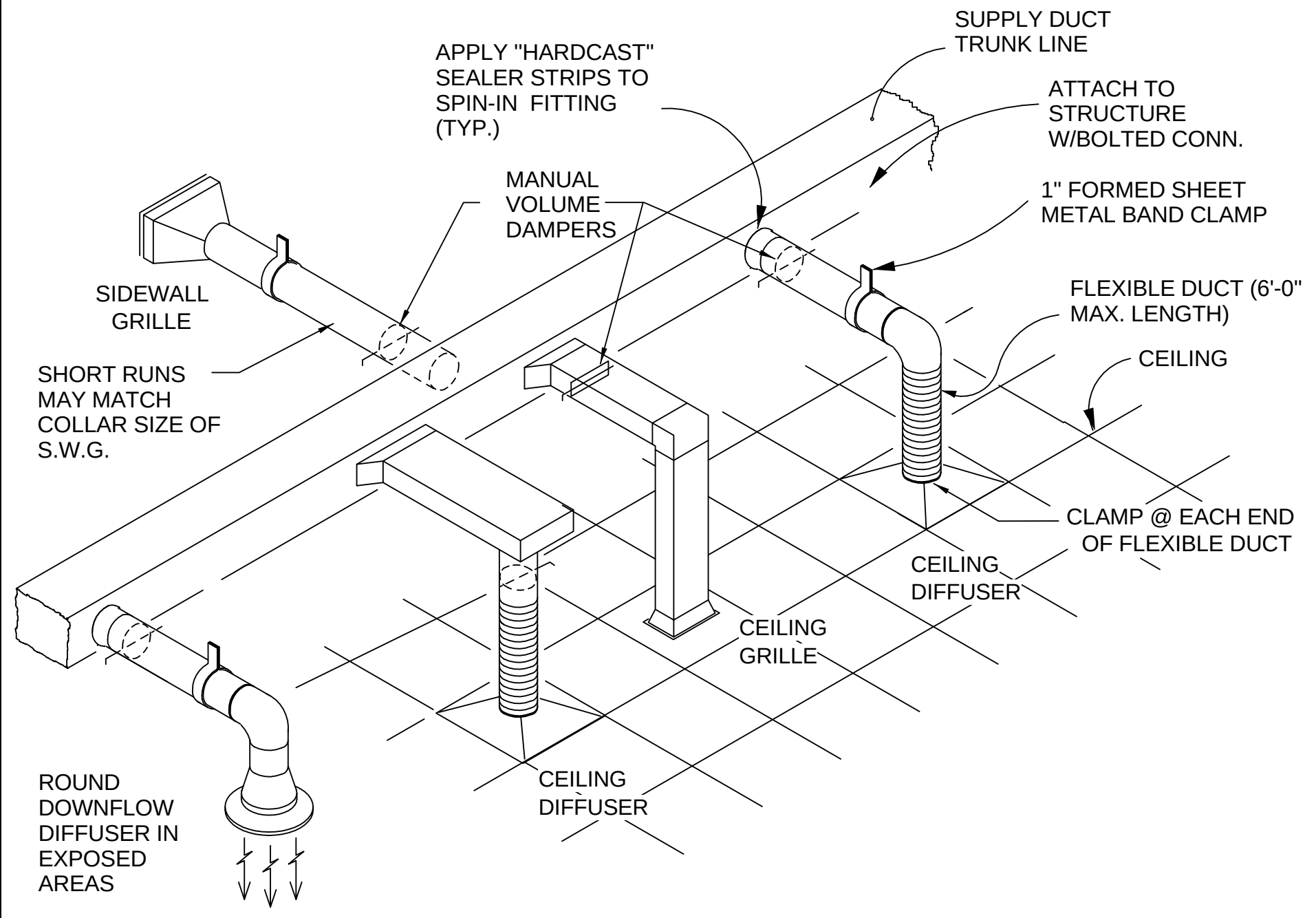
SCALE: NO SCALE


INSULATION
DUCT
INLET TUBE
AIR FLOW DIRECTION
EXHAUST TUBE
24 GA. METAL INSULATION STANDOFF BRACKET REQUIRED ON INSULATED DUCT
ACCESS DOOR
SMOKE DETECTOR HOUSING MOUNTED TO SIDE OF DUCT

NOTE:
CUT INLET AND EXHAUST TUBES TO LENGTH SPECIFIED BY MANUFACTURER.

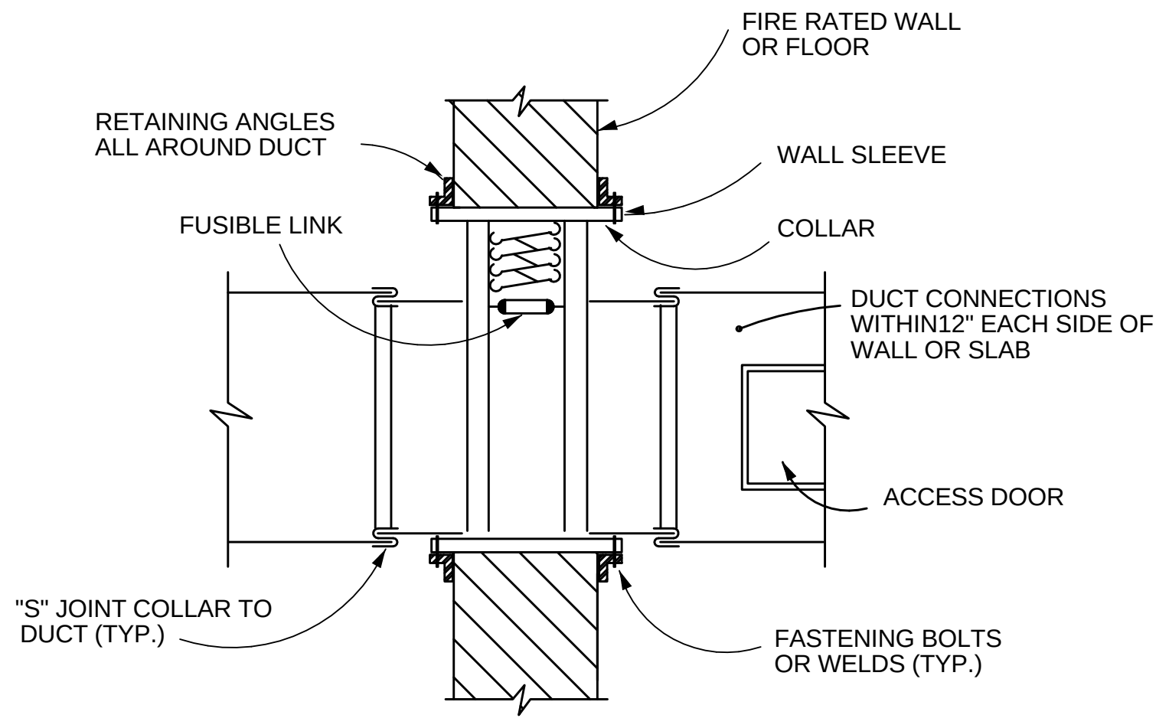
DUCT MOUNTED SMOKE DETECTOR DETAIL

SCALE: NO SCALE


SUPPLY DUCT TRUNK LINE
APPLY "HARDCAST" SEALER STRIPS TO SPIN-IN FITTING (TYP.)
ATTACH TO STRUCTURE W/BOLTED CONN.
MANUAL VOLUME DAMPERS
1" FORMED SHEET METAL BAND CLAMP
SIDEWALL GRILLE
FLEXIBLE DUCT (6'-0" MAX. LENGTH)
SHORT RUNS MAY MATCH COLLAR SIZE OF S.W.G.
CEILING
CLAMP @ EACH END OF FLEXIBLE DUCT
CEILING DIFFUSER
CEILING GRILLE
ROUND DOWNFLOW DIFFUSER IN EXPOSED AREAS
CEILING DIFFUSER

TYPICAL RECT. / ROUND RUN-OUT DETAILS

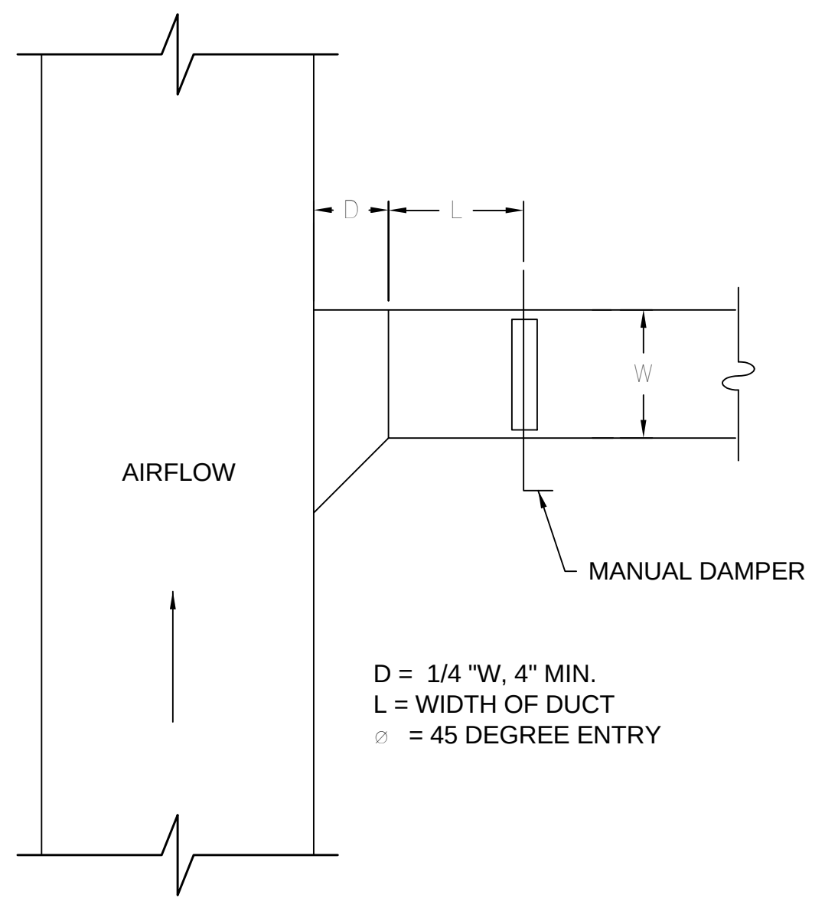
SCALE: NO SCALE


FIRE RATED WALL OR FLOOR
RETAINING ANGLES ALL AROUND DUCT
WALL SLEEVE
FUSIBLE LINK
COLLAR
DUCT CONNECTIONS WITHIN12" EACH SIDE OF WALL OR SLAB
ACCESS DOOR
"S" JOINT COLLAR TO DUCT (TYP.)
FASTENING BOLTS OR WELDS (TYP.)

NOTES:
1. COMBINATION OF FIRE DAMPER AND METAL DUCT TO HAVE A U.L. 555 CLASSIFIED FIRE RATING THAT MATCHES OR EXCEEDS THE RATING OF THE WALL
2. ANY DUCT PASSING THRU A RATED WALL / FLOOR IS TO BE PROVIDED WITH A FIRE DAMPER AT THE WALL / FLOOR PENETRATION

FIRE DAMPER DETAIL

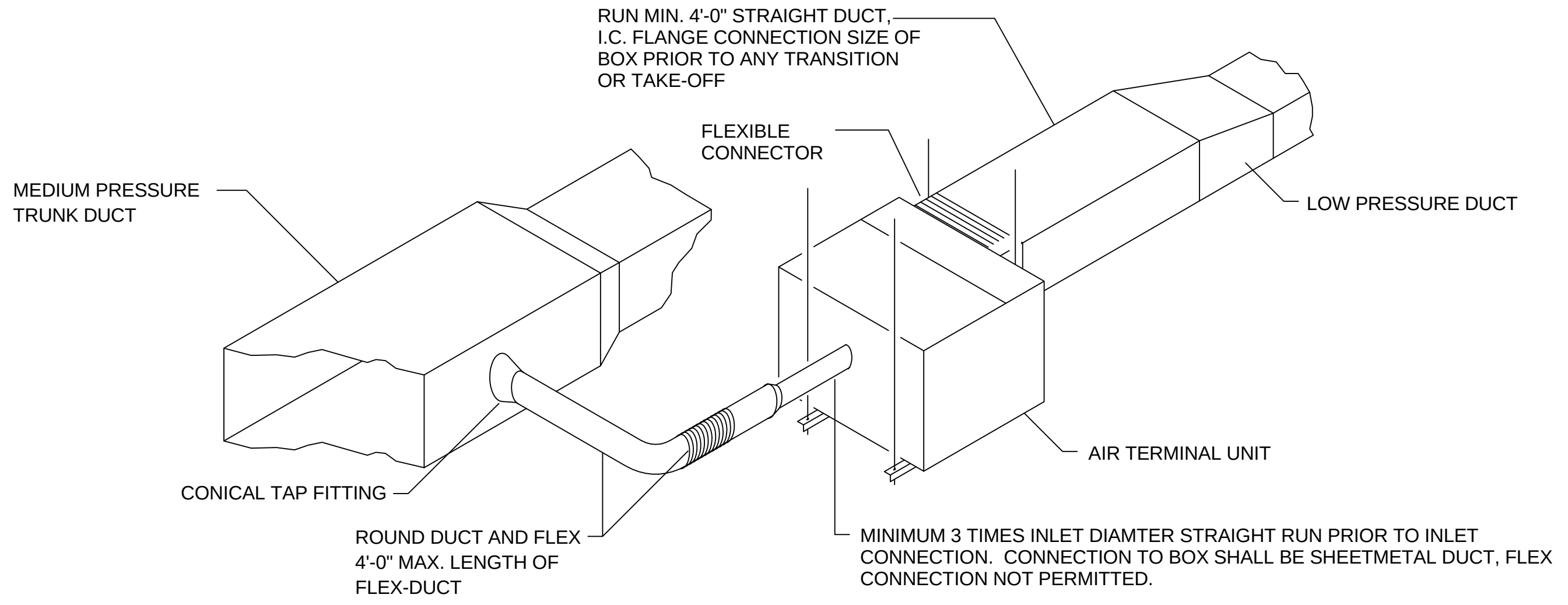
SCALE: NO SCALE



D = 1/4 "W, 4" MIN.
L = WIDTH OF DUCT
⌀ = 45 DEGREE ENTRY

LOW PRESSURE BRANCH DETAIL

SCALE: NO SCALE


RUN MIN. 4'-0" STRAIGHT DUCT, I.C. FLANGE CONNECTION SIZE OF BOX PRIOR TO ANY TRANSITION OR TAKE-OFF
FLEXIBLE CONNECTOR
MEDIUM PRESSURE TRUNK DUCT
LOW PRESSURE DUCT
AIR TERMINAL UNIT
CONICAL TAP FITTING
ROUND DUCT AND FLEX 4'-0" MAX. LENGTH OF FLEX-DUCT
MINIMUM 3 TIMES INLET DIAMTER STRAIGHT RUN PRIOR TO INLET CONNECTION. CONNECTION TO BOX SHALL BE SHEETMETAL DUCT, FLEX CONNECTION NOT PERMITTED.

NOTES:

1) FLEX DUCT IS ONLY ALLOWED ONE BEND WITH CENTERLINE RADIUS NOT LESS THAN 1 1/2 TIMES DUCT DIAMETER.

2) TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE RECTANGULAR 45° ENTRY SIZED PER SMACNA RECOMMENDATIONS, AND THEN TRANSITIONING TO ROUND.

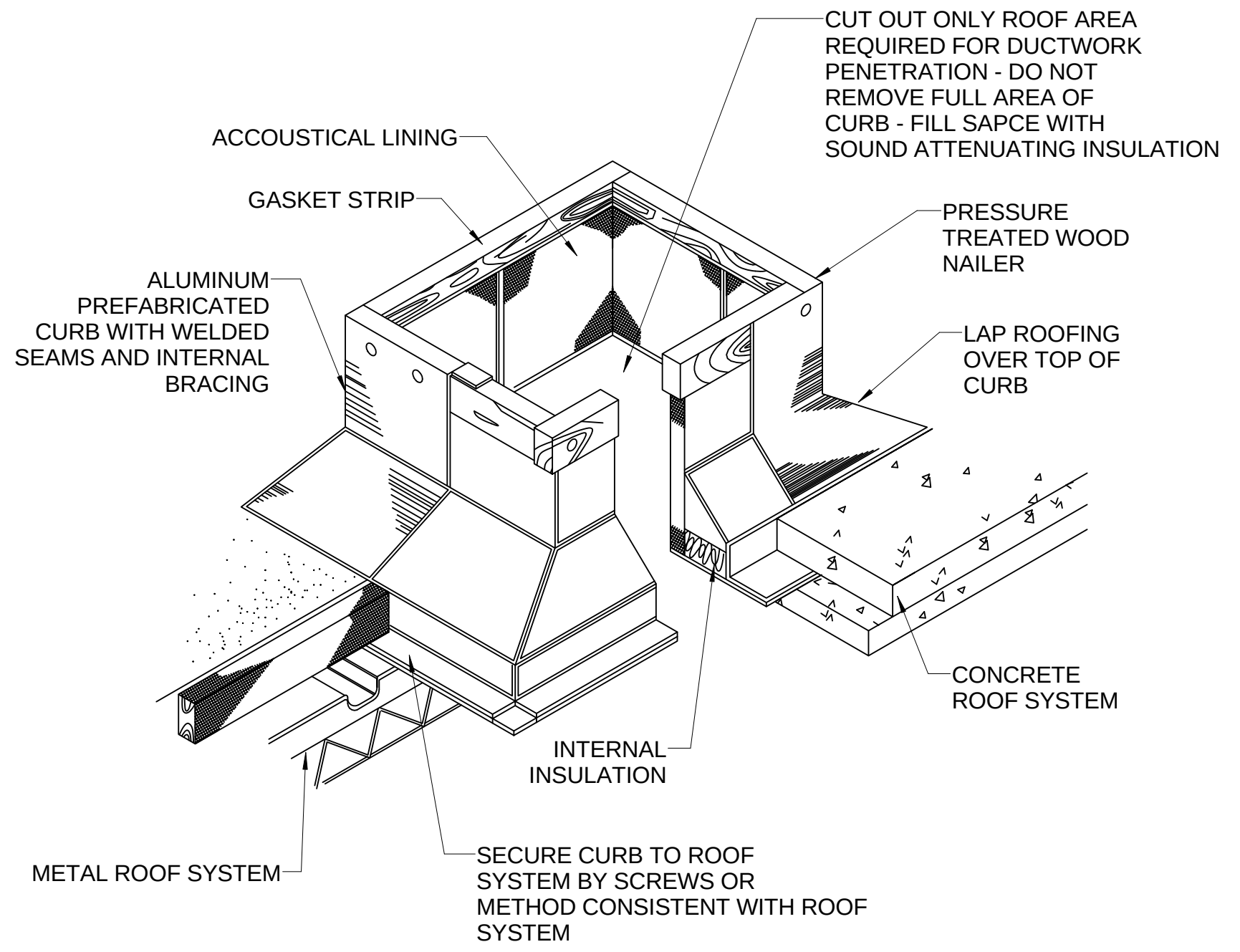
3) MEDIUM PRESSURE ROUND TRUNK DUCT TO HAVE CONICAL TEE FITTING OR SADDLE TAP, WITH OTHER REQUIREMENTS AS SHOWN.

4) BOXES 1,400 CFM OR LARGER TO BE SUPPORTED WITH 1 1/2" x 1/8" GALVANIZED BAND IRON ON FOUR CORNERS. BOXES GREATER THAN 1,400 CFM SHALL HAVE TRAPEZE SUPPORT OF REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS

5) COORDINATE REQUIREMENTS FOR CEILING ACCESS PANELS WITH DIVISION 8.

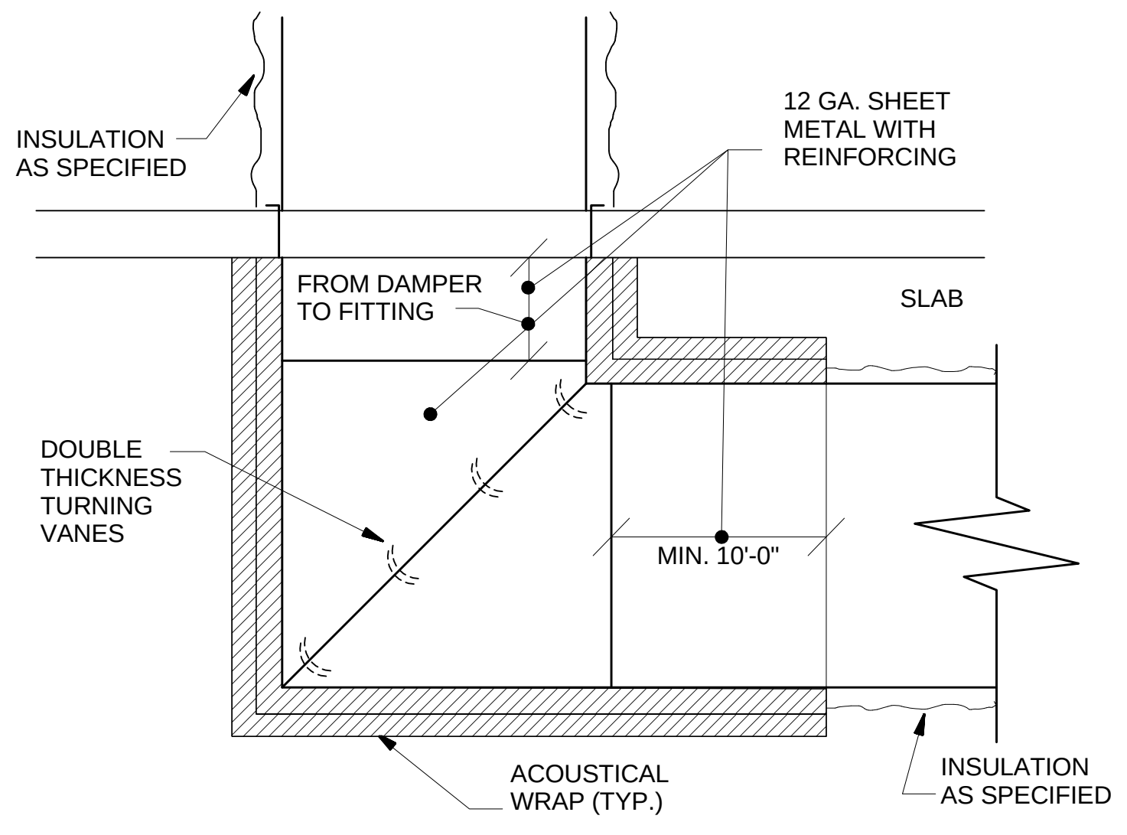
DUCT CONNECTION TO AIR TERMINAL UNIT DETAIL

SCALE: NO SCALE

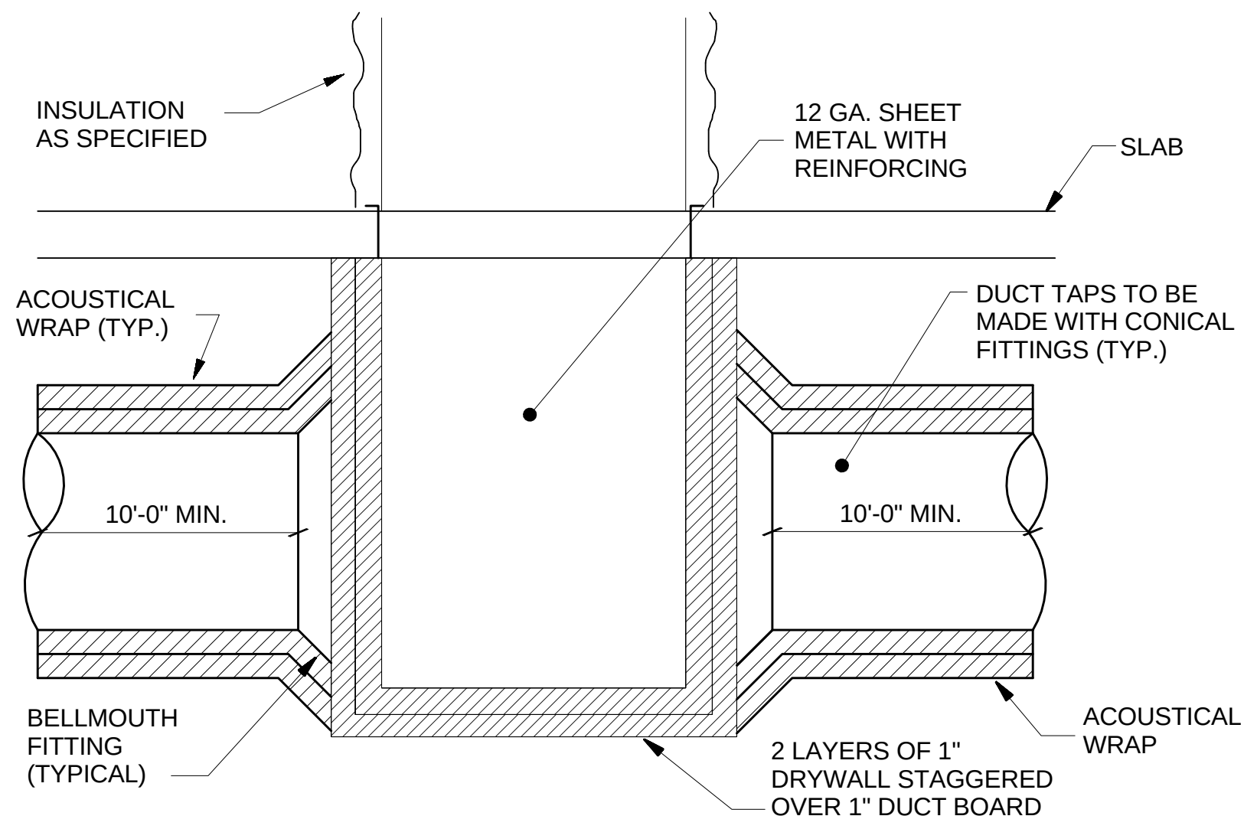

CUT OUT ONLY ROOF AREA REQUIRED FOR DUCTWORK PENETRATION - DO NOT REMOVE FULL AREA OF CURB - FILL SAPCE WITH SOUND ATTENUATING INSULATION
ACCOUSTICAL LINING
GASKET STRIP
PRESSURE TREATED WOOD NAILER
ALUMINUM PREFABRICATED CURB WITH WELDED SEAMS AND INTERNAL BRACING
LAP ROOFING OVER TOP OF CURB
CONCRETE ROOF SYSTEM
INTERNAL INSULATION
METAL ROOF SYSTEM
SECURE CURB TO ROOF SYSTEM BY SCREWS OR METHOD CONSISTENT WITH ROOF SYSTEM

ROOF CURB DETAIL

SCALE: NO SCALE

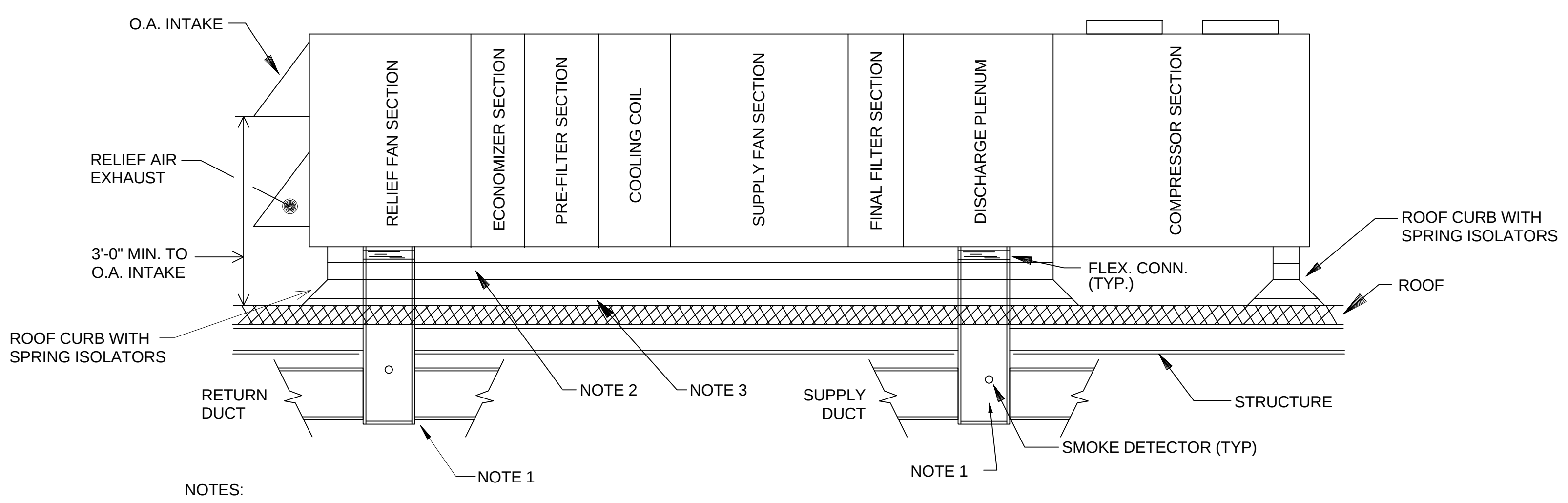


DUCT DROP WITH 90° ELBOW


INSULATION AS SPECIFIED
12 GA. SHEET METAL WITH REINFORCING
SLAB
ACOUSTICAL WRAP (TYP.)
DUCT TAPS TO BE MADE WITH CONICAL FITTINGS (TYP.)
10'-0" MIN.
10'-0" MIN.
BELLMOUTH FITTING (TYPICAL)
2 LAYERS OF 1" DRYWALL STAGGERED OVER 1" DUCT BOARD
ACOUSTICAL WRAP

DUCT DROP WITH TAPS ON BOTH SIDES

NOTES:
1. CONTRACTOR TO PROVIDE FULL RADIUS ELBOW WHERE CLEARANCE WILL ALLOW. REPLACE DRYWALL WITH 2 LAYERS OF 1" THICK KINETICS TYPE "KNM" SOUND BARRIER WRAP.
2. DUCT SOUND ATTENUATION SHALL BE APPLIED TO SUPPLY AND RETURN DUCT DROP TO/FROM MEDIUM PRESSURE AIR HANDLER.

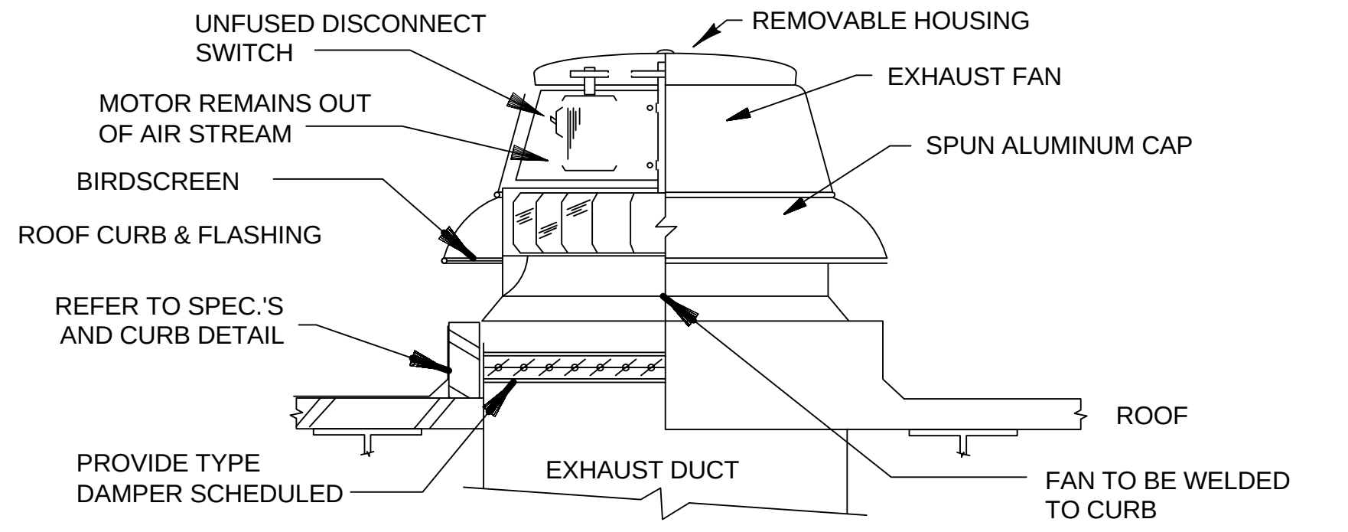


NOTES:

1. PROVIDE 1" ACOUSTICAL BARRIER WRAP FOR VERTICAL DUCT DROP AND THE FIRST 10 FEET OF EACH TAP.
2. UNIT TO BE MOUNTED ON 12" HIGH SPRING ISOLATION RAIL AND 18" HIGH ROOF CURB. UNIT TO BE PERMANENTLY ATTACHED TO CURB BY BOLTING OR WELDING. ROOF CURB IS TO BE ATTACHED TO BUILDING STRUCTURAL STEEL BY BOLTING OR WELDING.
3. PROVIDE LIGHTWEIGHT CONCRETE FILL (MIN. 2" DEPTH) INSIDE CURB.
4. DETAIL IS TO SHOW GENERAL ARRANGEMENT OF COMPONENTS. ROOF CURB AND SPRING ISOLATION RAIL SHALL BE CAPABLE OF WITHSTANDING WIND LOADS OF 120 MPH. ROOFTOP UNIT TO BE PERMANENTLY ATTACHED TO CURB AND CURB TO STRUCTURE. AS A DELEGATED ENGINEERING DESIGN, SUBMIT ANCHORAGE DETAILS AND CALCULATIONS STAMPED BY A STRUCTURAL ENGINEER.

ROOFTOP UNIT DETAIL

SCALE: NO SCALE


UNFUSED DISCONNECT SWITCH
REMOVABLE HOUSING
EXHAUST FAN
MOTOR REMAINS OUT OF AIR STREAM
SPUN ALUMINUM CAP
BIRDSCREEN
ROOF CURB & FLASHING
REFER TO SPEC.'S AND CURB DETAIL
ROOF
PROVIDE TYPE DAMPER SCHEDULED
EXHAUST DUCT
FAN TO BE WELDED TO CURB

NOTES:

1. PROVIDE RUBBER VIBRATION ISOLATORS TO PREVENT MOTOR AND BEARING NOISE FROM TRANSMITTING TO THE FAN HOUSING.
2. ROUTE POWER LEADS TO FAN INSIDE CORNER OF CURB.
3. BELT DRIVEN CENTRIFUGAL EXHAUST FAN SHOWN. DETAIL IS SIMILAR FOR DIRECT DRIVE CENTRIFUGAL EXHAUST FAN.
4. SECURE FAN COWLING TO ROOF STRUCTURE WITH 3/16" DIA. STAINLESS STEEL CABLES CONNECTED TO PIPE COLUMN SUPPORT (SEE SHEET M301 FOR PIPE COLUMN SUPPORT DETAIL) AND WITH 1/4" EYE BOLTS ON FAN COWLING. SUPPORT FAN COWLING TO ROOF ON 2 SIDES OF FAN.
5. EXHAUST FAN IS TO BE PERMANENTLY ATTACHED TO ROOF CURB 5. UPPER SUPPORT RAIL BY BOLTING OR WELDING. ROOF CURB IS TO BE ATTACHED TO BUILDING STRUCTURE BY BOLTING OR FIELD WELD. PROVIDE SUPPLEMENTAL STEEL FOR ATTACHMENT AS REQUIRED.
6. ALL CURBS ARE TO BE RATED FOR INTERNATIONAL BUILDING CODE SEISMIC CRITERIA.
7. PROVIDE SLOPED CURB FOR LEVEL ROOF INSTALLATION.

CENTRIFUGAL EXHAUST FAN DETAIL

SCALE: NO SCALE

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DATES OF ISSUANCE

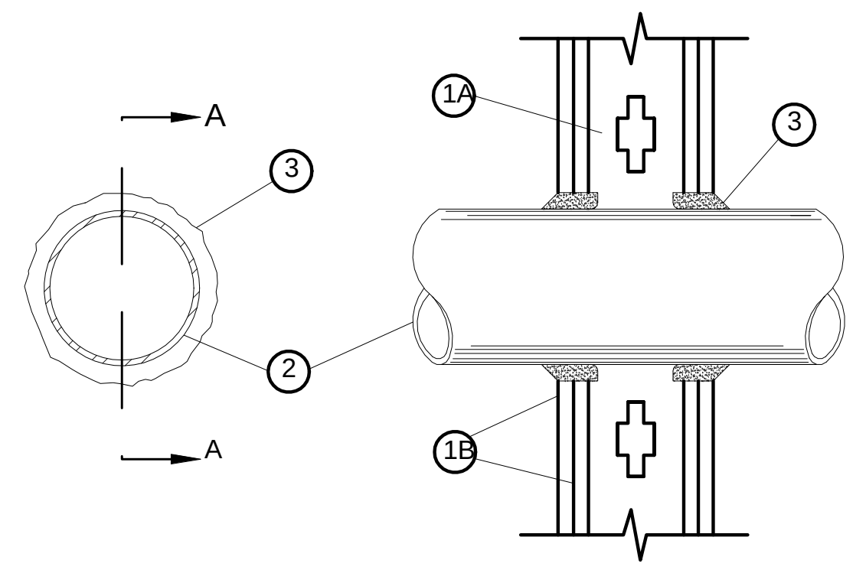
TITLE
DETAILS - HVAC

SHEET
M201

C:\Revit Local\16066 Lee's Summit MOB_PMC CENTRAL_R16_jakhorn.rvt
2/15/2019 5:13:42 PM

System No.W-L-1001

June 15, 2005
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly** - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. **Gypsum Board*** - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through Penetrant** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITEFLEX CORP
A BUNDY CO

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. **Fill,Void or Cavity Material*** - Caulk or Sealant - Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall.
The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table.
The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

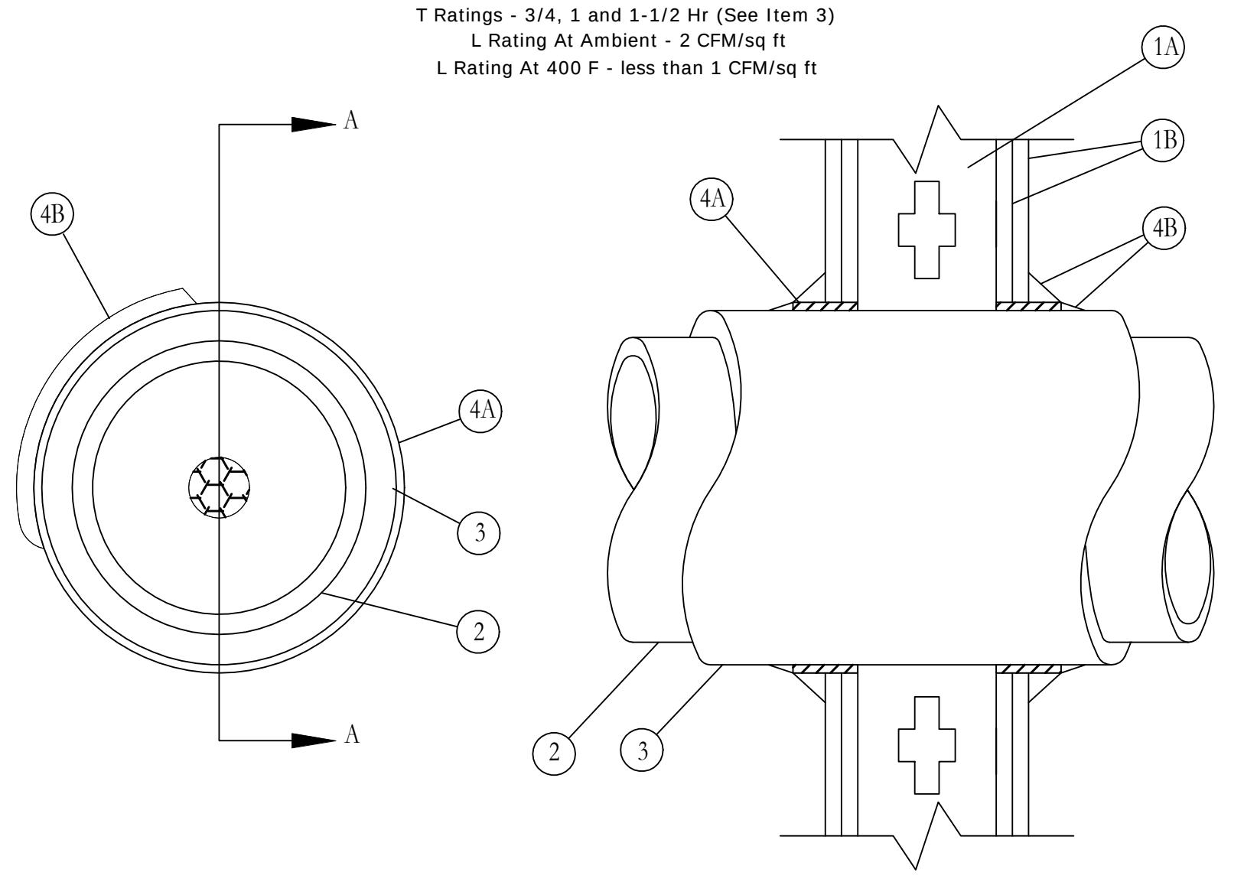
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

1

System No.W-L-5001

September 07, 2004
(Formerly System No. 147)
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 3/4, 1 and 1-1/2 Hr (See Item 3)
L Rating At Ambient - 2 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (25 mm by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. **Gypsum Board*** - Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/ (368 mm) for wood stud walls and 18 in. (457 mm) for steel stud walls.

The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.

2. Through Penetrants - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. **Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* - Nom 1 in. or 2 in. (25 mm or 51 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. to max 3/8 in. (6 mm to max 10 mm). When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/2 in. to max 3/4 in. (13 mm to max 19 mm).

See **Pipe and Equipment Covering - Materials** (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is used.
The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (51 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.

4. Firestop System - Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:

A. **Fill,Void or Cavity Materials* - Wrap Strip** - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.

3M COMPANY - FS-195+

B. **Fill,Void or Cavity Materials* - Caulk or Sealant** - Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

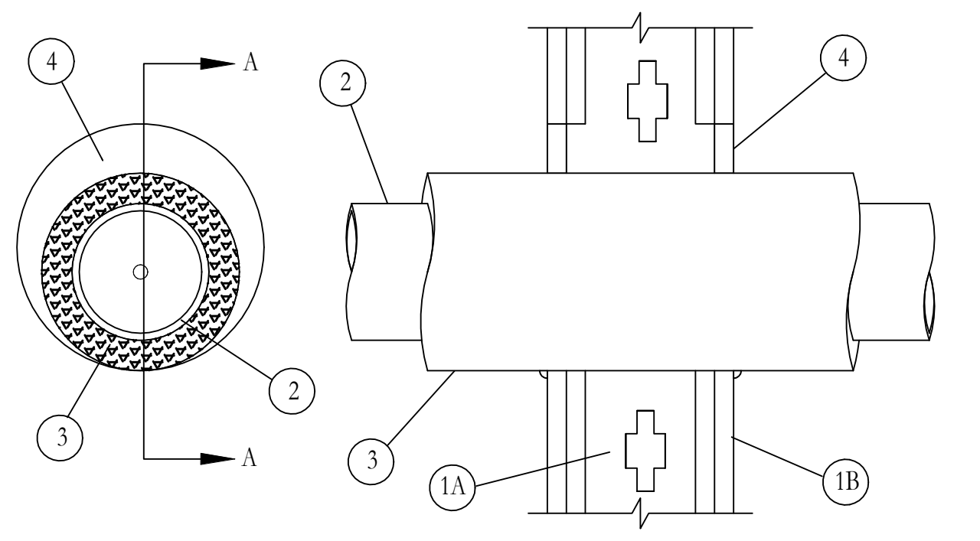
3M COMPANY - CP-25 WB+, IC 15WB, FireDam-150+ caulk or FB-3000 WT sealant

*Bearing the UL Classification Marking

2

System No. W-L-5169

May 19, 2005
F Ratings - 1 & 2 Hr (See Item 1)
T Ratings - 0 & 1 Hr (See Item 3)



SECTION A-A

1. Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.
B. Gypsum Board* - The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 7-1/2 in. (191 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants - One metallic pipe or tubing installed concentrically or eccentrically within opening. Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Tubing - Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Pipe - Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Tube Insulation-Plastics+ - Nom 3/4 in. (19 mm) thick (or less) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Annular space between tube insulation and periphery of opening to be min 0 in. (point contact) to max 1-1/2 in. (0 mm to 38 mm).

See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5A may be used.

T Rating is 1 Hr for nom 3/4 in. (19 mm) thick tube insulation in 2 Hr rated assemblies.
T Rating is 0 Hr for 3/4 in. (19 mm) thick tube insulation in 1 Hr rated assemblies.
T Rating is 0 Hr for tube insulations less than nom 3/4 in. (19 mm) thick in 1 and 2 Hr rated assemblies.

4. Fill,Void or Cavity Material* - Caulk or Sealant - Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/tube insulation interface at point contact location on both sides of wall.

3M COMPANY - CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant

*Bearing the UL Classification Marking
+Bearing the UL Recognized Component Marking

3

PMC POWER MANAGEMENT CORPORATION
Consulting Engineers
60 MUSIC SQUARE EAST, STE 300
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615.383.6949
PROJECT #: 16066
DESIGNER: SJA ENGINEER: GHA

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE
FIRESTOP DETAILS - HVAC

SHEET
M202

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2/15/2019 5:13:50 PM

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2/15/2019 5:13:58 PM
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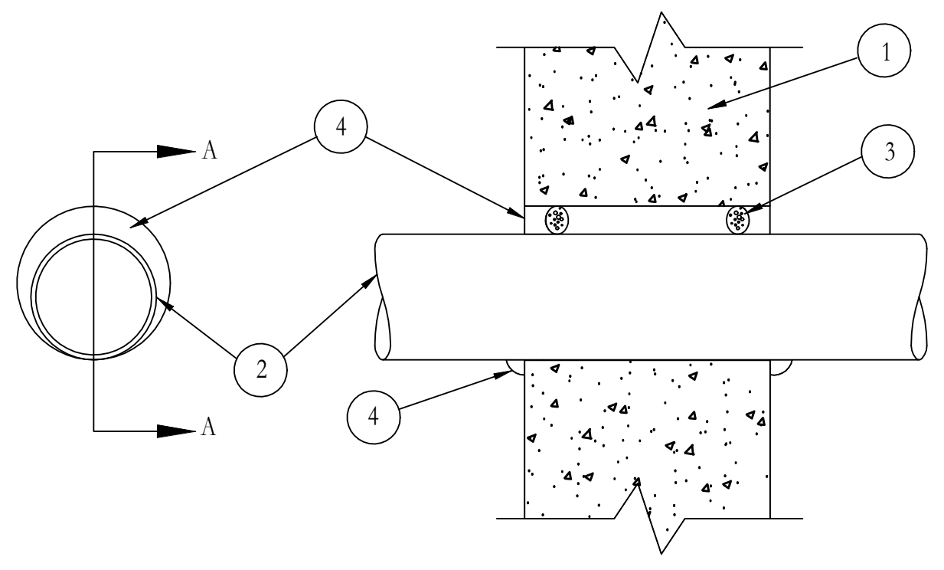
System No.W-J-2029

May 19, 2005
F Ratings - 1 and 2 Hr (See Item 2)
T Ratings - 0, 1, and 2 Hr (See Item 2)



SECTION A-A

1. Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*** . Diam of opening shall be 7/8 in. to 1 in. (22 mm to 25 mm) larger than the outside diam of nonmetallic pipe or conduit (Item 2).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants - One nonmetallic pipe or conduit to be centered within the firestop system. The annular space for nom 1-1/4 in. (32 mm) diam and smaller between the pipe or conduit and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (0 mm to max 22 mm). The annular space for pipe or conduit greater than nom 1-1/4 in. (32 mm) diam between the pipe or conduit and periphery of opening shall be min 1/2 in. to max 1 in. (13 mm to 25 mm). Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. Polyvinyl Chloride (PVC) Pipe - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Polyvinyl Chloride (PVC) Pipe - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping system.
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 3 in. (76 mm) diam (or smaller) SDR11 CPVC pipe for use in closed (process or supply) piping systems.
D. Rigid Nonmetallic Conduit++ - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
E. Electrical Nonmetallic Tubing (ENT)++ - Nom 1 in. (25 mm) diam (or smaller) ENT formed of PVC, installed in accordance with the National Electrical Code (NFPA No. 70).
F. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

See **Rigid Nonmetallic Conduit** (DZKT), **Electrical Nonmetallic Tubing** (FKHU) in UL Construction Materials Directory for names of manufacturers.

The hourly T Rating is dependent on the hourly rating of the wall assembly, the pipe or conduit size and whether the pipe is intended for use as a closed or vented system, as shown in the following table:

Nom Pipe Diam in. (mm)	Wall Assembly Rating Hr	Closed (c) or Vented (v)	T Rating Hr
1/2 to 3 (13 to 76)	1	c	1
1/2 to 1-1/4 (13 to 32)	1	v	1
1/2 to 1-1/4 (13 to 32)	2	c	2
1/2 to 1-1/4 (13 to 32)	2	v	1
2 (51)	1	v	0
2 (51)	2	v	0

3. Packing Material (Optional) - Mineral wool or fiberglass insulation or polyethylene backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of caulk fill material.

4. Fill,Void or Cavity Materials* - Caulk, Sealant or Putty - Min thickness of 5/8 in. and 1-1/4 in. (16 mm to max 32 mm) of caulk or putty for 1 and 2 hr rated wall assemblies, respectively, applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly. At the point contact location between pipe or conduit and wall, a min 1/2 in. (13 mm) diam bead of caulk or putty shall be applied at the pipe or conduit/wall interface on both surfaces of wall assembly.

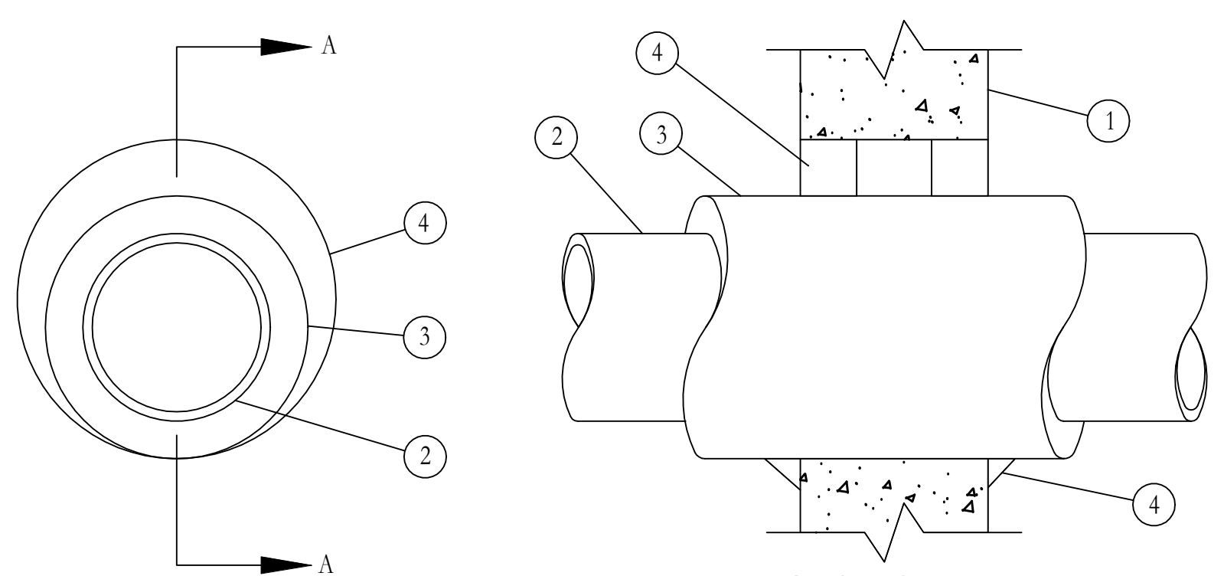
3M COMPANY - CP 25WB+, IC 15WB+ caulk, FB-3000 WT sealant or MP+ Stix putty (Note: CP 25WB+ not suitable for use with CPVC pipes.)

++Bearing the UL Listing Mark.
*Bearing the UL Classification Marking

1

System No.W-J-5014

MAY 19, 2005
F Ratings - 1 and 2 Hr (See Item 4)
T Ratings - 3/4 Hr



SECTION A-A

1. Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 7 in. (178 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants - One metallic pipe or tubing installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Insulation - Plastics# - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated pipe and the edge of the through opening shall be min 0 in. (point contact) to max 1-1/4 in. (0 mm to 32 mm).

See Plastics# (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.

4. Fill,Void or Cavity Materials* - Caulk or Sealant - Min thickness of 5/8 in. and 1-1/4 in. (16 mm and 32 mm) of caulk or putty for 1 and 2 hr rated wall assemblies, respectively, applied within annulus between pipe covering and periphery of the opening, flush with both surfaces of wall assembly. A min 1/2 in. (13 mm) diam bead of caulk shall be applied to the pipe covering/wall interface at the point contact location on both sides of wall.

3M COMPANY - IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

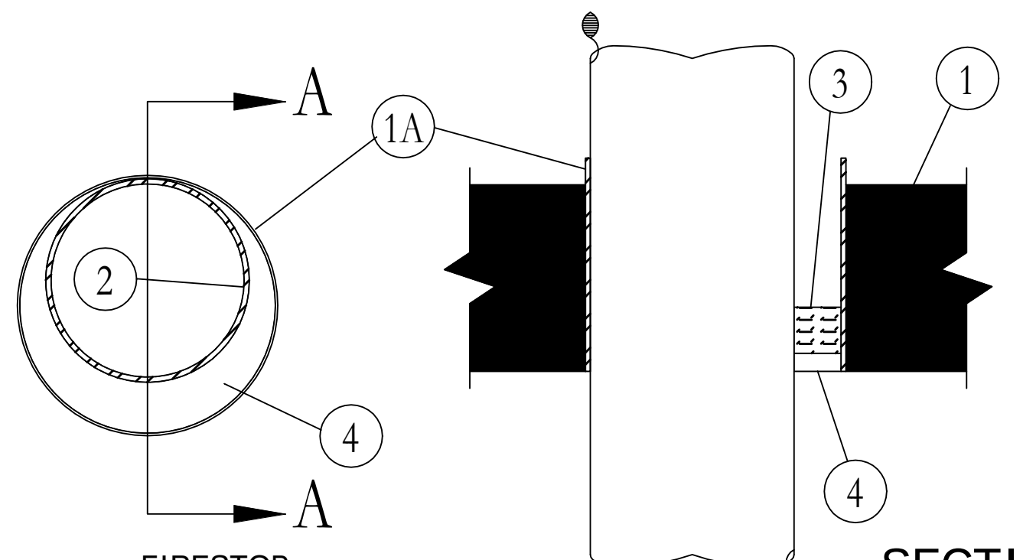
5. Packing Material (Optional, not shown) - Mineral wool or fiberglass insulation or polyethylene backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of caulk fill material.

*Bearing the UL Classification Marking

2

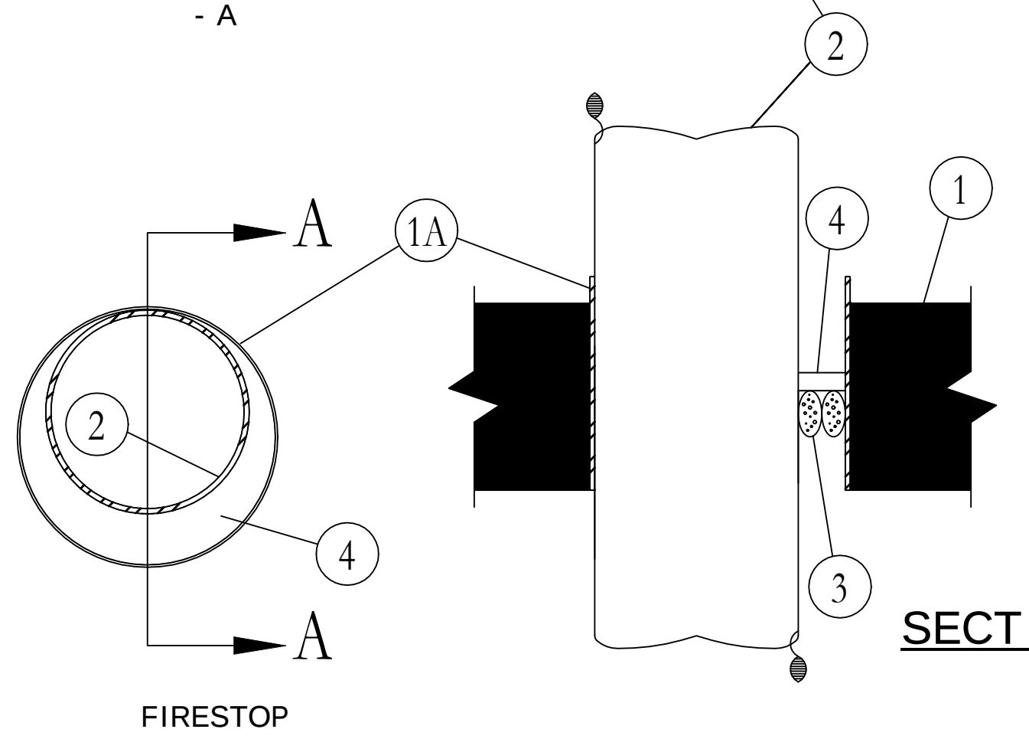
System No. C-AJ-1175

March 05, 2007
F Rating - 2 Hr
T Rating - 0 Hr
W Rating - Class I (See Item 4)



FIRESTOP CONFIGURATION - A

SECTION A-A



FIRESTOP CONFIGURATION - B

SECTION A-A

1. Floor or Wall Assembly - Min 2-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. When configuration A is used or when configuration B is used in conjunction with the steel sleeve (Item 1A), floor may be constructed of any min 6 in. thick UL Classified hollow core **Precast Concrete Units*** . Wall may also be constructed of any UL Classified **Concrete Blocks*** . Max diam of circular through opening is 10 in. (254 mm).

See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve — (Optional) — Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. from top surface of floor or from both surfaces of wall. As an alternate, nom 10 in. (254 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening not to exceed 1-3/8 in. (35 mm). Min annular space between pipe or conduit and edge of through opening is 0 in. (point contact). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. **Steel Pipe** — Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
C. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
D. **Iron Pipe** — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
E. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
F. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

FIRESTOP CONFIGURATION A

3. **Packing Material** — Min 1 in. (25 mm) thickness of tightly-packed mineral wool batt material used as a permanent form. Packing material to be recessed from top or bottom surface of floor or from either surface of solid concrete wall as required to accommodate the required thickness of caulk fill material (Item 4). When wall is constructed of concrete block, packing material is to be installed on both sides of wall assembly. When precast hollow core floor is used, packing material must be installed on bottom surface of floor.

4. **Fill, Void or Cavity Materials*** — **Caulk or Sealant** — Applied to fill the annular space to a min depth of 1/2 in. (13 mm) flush with the top or bottom surface of the floor or either surface of the solid concrete wall. A min 1/4 in. (6 mm) diam bead of caulk shall be applied to the floor or wall surface where the pipe, conduit or EMT is installed in point contact with the edge of the through opening. When wall is constructed of concrete block, caulk to be installed symmetrically on both sides of wall assembly. When precast hollow core floor is used, caulk fill material must be installed on bottom surface of floor.

3M COMPANY — CP 25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used flush with the top surface of floor.)

FIRESTOP CONFIGURATION B

3. **Packing Material** — Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed min 1/2 in. (13 mm) from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

4. **Fill, Void or Cavity Materials*** — **Caulk or Sealant** — Applied to fill the annular space to a min depth of 1/2 in. (13 mm) flush with the top surface of the floor or both surfaces of the wall. A min 1/4 in. (6 mm) diam bead of caulk shall be applied to the floor or wall surface where the pipe, conduit or EMT is installed in point contact with the edge of the through opening.

3M COMPANY — CP 25WB+ or FB-3000 WT.

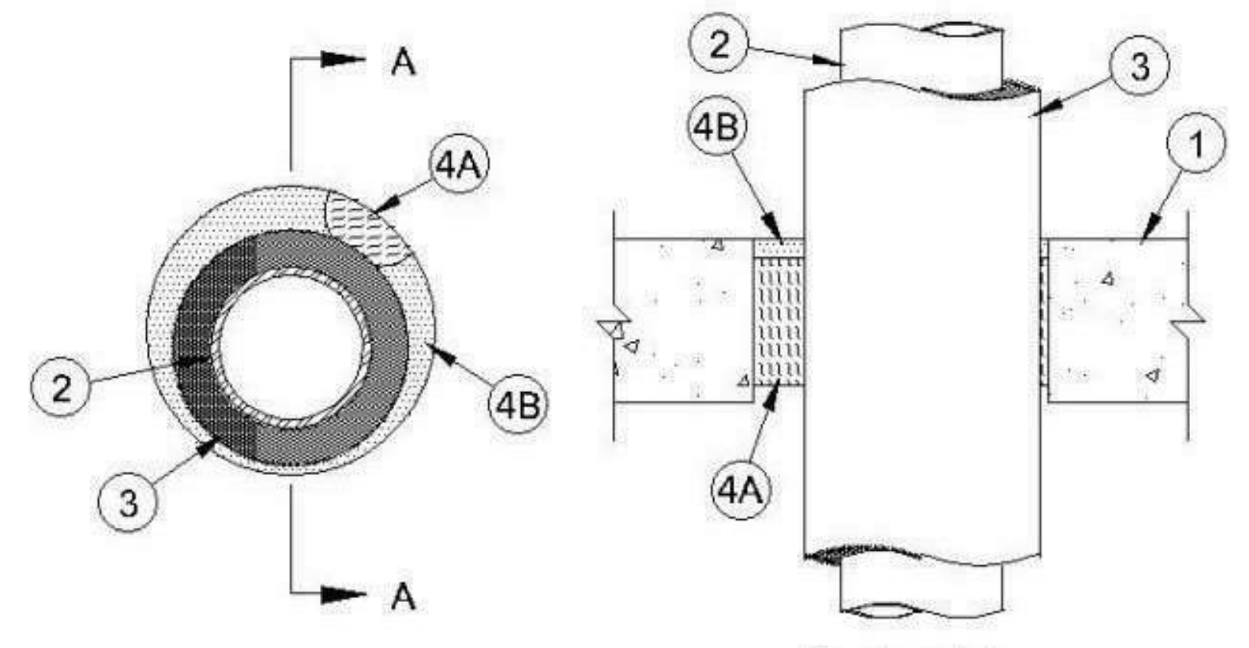
(Note - W Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Mark

3

System No. C-AJ-5156

March 05, 2007
F Rating - 2 Hr
T Rating - 1 Hr
W Rating - Class I (See Item 4)



Section A-A

1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7 in. (178 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve** — (Optional, Not Shown) - Nom 7 in. (178 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants** — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes or tubing may be used:

A. **Steel Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing** — Nom 3 in. (76 mm) diam (or smaller) Type M (or heavier) copper tube.

D. **Copper Pipe** — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Tube Insulation - Plastics+** — Nom 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated penetrating item and the periphery of the opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm).

See **Plastics** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of UL94-5VA may be used.

4. **Firestop System** — The details of the firestop system shall be as follows:

A. **Packing Material** — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* Putty, Sealant or Caulk** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Min 1/2 in. (13 mm) diam bead of fill material applied to the concrete/tube insulation interface at the point contact location on the top surface of floor.

3M COMPANY — MPS-2+, CP 25WB+ or FB-3000 WT.

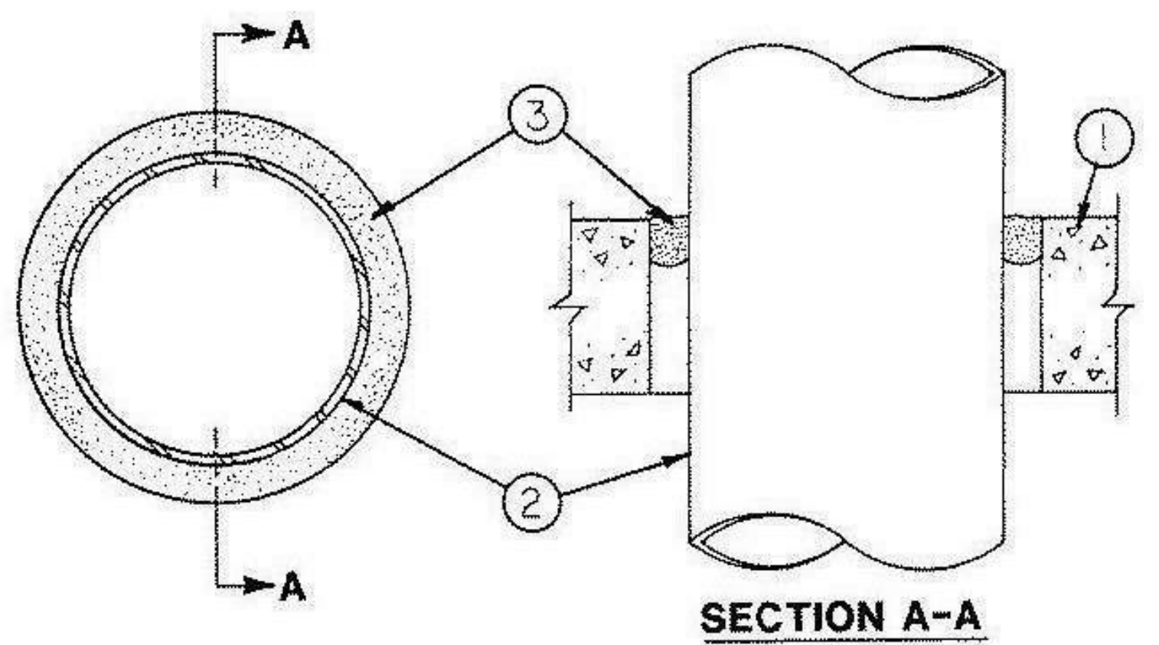
(Note - W Rating applies only when FB-3000 WT is used.)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

4

System No.C-AJ-1027

January 22, 2008
F Ratings - 3 Hr
T Ratings - 0 Hr



SECTION A-A

1. **Floor or Wall Assembly** — Min 4-1/2 in. thick lightw eight or normal w eight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max diam of through opening is 12-1/4 in.

See Concrete Blocks (CAZT) category in Fire Resistance Directory for names of manufacturers.

1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7 in. (178 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve** — (Optional, Not Shown) - Nom 7 in. (178 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants** — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes or tubing may be used:

A. **Steel Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing** — Nom 3 in. (76 mm) diam (or smaller) Type M (or heavier) copper tube.

D. **Copper Pipe** — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Tube Insulation - Plastics+** — Nom 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated penetrating item and the periphery of the opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm).

See **Plastics** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of UL94-5VA may be used.

4. **Firestop System** — The details of the firestop system shall be as follows:

A. **Packing Material** — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* Putty, Sealant or Caulk** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Min 1/2 in. (13 mm) diam bead of fill material applied to the concrete/tube insulation interface at the point contact location on the top surface of floor.

3M COMPANY — MPS-2+, CP 25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)

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CLIENT PROJECT NUMBER: N/A

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STATUS
CONSTRUCTION DOCUMENTS

PE-2007009102
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02/15/19

DATES OF ISSUANCE

TITLE
FIRESTOP DETAILS - HVAC

SHEET
M203

VARIABLE AIR VOLUME ROOFTOP UNIT
SEQUENCE OF OPERATION
RTU – 1 & RTU – 2

BUILDING AUTOMATION SYSTEM (BAS) INTERFACE

1. THE VARIABLE AIR VOLUME ROOFTOP UNIT (RTU) SHALL BE CONTROLLED BY A FACTORY MOUNTED MICRO-PROCESSOR BASED DDC CONTROLLER. THE ROOFTOP UNIT LOCAL CONTROLLER (RLC) SHALL COMMUNICATE WITH THE BAS VIA A BACNET MS/TP PROTOCOL INTERFACE.

2. THE BAS SHALL SEND THE RTU LOCAL CONTROLLER OCCUPIED, UNOCCUPIED, OPTIMAL START, NIGHT WARM-UP AND TIMED OVERRIDE COMMANDS THROUGH THE COMMUNICATIONS INTERFACE

3. CURRENT ROOFTOP UNIT STATUS AND OPERATING CONDITIONS SHALL BE MONITORED THROUGH THE COMMUNICATIONS INTERFACE. THE BAS SHALL MONITOR AND TREND THE POINTS SHOWN ON THE VAV ROOFTOP UNIT INTERFACE MONITOR POINTS LIST.

4. SUPPLY AIR TEMPERATURE SETPOINTS, DUCT & BUILDING STATIC PRESSURE SETPOINTS, MINIMUM OUTSIDE AIRFLOW SETPOINT, AND ECONOMIZER ENABLE SETPOINT SHALL BE ADJUSTABLE BY THE BAS THROUGH THE COMMUNICATIONS INTERFACE.

UNIT RUN CONDITIONS

1. THE BAS SHALL INDEX THE RTU TO OPERATE IN THE FOLLOWING MODES:

   A. OCCUPIED MODE:
   THE BAS SHALL INDEX THE RTU TO OCCUPIED MODE ACCORDING TO A USER DEFINABLE TIME SCHEDULE. WHEN THE RTU IS IN THE OCCUPIED MODE, THE OUTSIDE AIR DAMPER WILL OPEN TO ITS MINIMUM POSITION, THE SUPPLY FAN WILL RUN CONTINUOUSLY, THE SUPPLY FAN VFD WILL MODULATE TO MAINTAIN THE DUCT STATIC PRESSURE AND THE HEATING, COOLING AND ECONOMIZER WILL MODULATE IN SEQUENCE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT.

   B. UNOCCUPIED MODE:
   WHEN THE RTU IS IN THE UNOCCUPIED MODE, AND THERE IS NO CALL FOR HEATING OR COOLING, THE SUPPLY FAN WILL BE OFF, THE OUTDOOR AIR DAMPER WILL BE CLOSED AND THE RETURN AIR DAMPER WILL BE FULLY OPEN THE BAS SHALL CYCLE THE RTU AS REQUIRED TO MAINTAIN UNOCCUPIED HEATING AND COOLING SETPOINTS. WHEN THE RTU IS CYCLED ON DURING THE UNOCCUPIED MODE, THE RETURN AIR DAMPER WILL BE OPEN AND THE OUTSIDE AIR DAMPER WILL BE CLOSED UNLESS CONDITIONS ALLOW THE ECONOMIZER TO BE ENABLED FOR COOLING.

   C. MORNING WARM-UP MODE:
   THE BAS WILL USE AN OPTIMAL START ALGORITHM FOR MORNING WARM-UP. THE OPTIMAL START ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF THE SCHEDULED OCCUPIED PERIOD. ON A TRANSITION FROM UNOCCUPIED MODE TO OCCUPIED MODE, THE RTU LOCAL CONTROLLER COMPARES THE RETURN AIR TEMPERATURE TO THE MORNING WARM-UP TARGET TEMPERATURE. IF THE RETURN AIR TEMPERATURE IS BELOW THE SETPOINT, THE WARM-UP MODE IS INITIATED. THE WARM-UP MODE REMAINS IN EFFECT UNTIL THE RETURN AIR TEMPERATURE RISES ABOVE THE TARGET TEMPERATURE. THE OUTSIDE AIR DAMPER REMAINS CLOSED DURING WARM-UP MODE.

SUPPLY FAN CONTROL

1. THE SUPPLY FAN WILL RUN CONTINUOUSLY IN THE OCCUPIED MODE AND WILL CYCLE ON DURING THE UNOCCUPIED MODE.
2. THE BAS SHALL MONITOR THE SUPPLY AIRFLOW AND SHALL RESET SELECT VAV BOX MINIMUM AIRFLOWS TO MAINTAIN A RTU MINIMUM EVAPORATOR COOLING AIRFLOW. INITIALLY THESE VAV BOXES WILL BE THE VAV BOXES SERVING THE SHELL SPACES.

ECONOMIZER CHANGE OVER

1. THE ECONOMIZER ENABLE SETPOINT WILL BE THE RETURN AIR TEMPERATURE MINUS 5 DEG F.

2. THE ECONOMIZER WILL BE ENABLED DURING COOLING MODE WHEN THE OA TEMPERATURE IS 1 DEG F BELOW THE ECONOMIZER ENABLE SETPOINT.

3. WHEN THE OA TEMPERATURE RISERS 1 DEG F ABOVE THE ECONOMIZER ENABLE SETPOINT, THE ECONOMIZER WILL BE DISABLED AND RETURN TO THE MINIMUM POSITION.

INTEGRATED ECONOMIZER OPERATION

1. WHEN THE ECONOMIZER IS ENABLED, THE RTU LOCAL CONTROLLER SHALL MODULATE THE RA DAMPER, OA DAMPER, AND COOLING IN SEQUENCE TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT THE COOLING SAT SETPOINT.

2. THE OUTSIDE AIR DAMPER WILL BE MODULATED TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW DURING THE OCCUPIED MODE WHEN THE ECONOMIZER IS DISABLED.

MODULATING COOLING

1. THE DIGITAL SCROLL COMPRESSORS WILL BE STAGED AND MODULATED IN SEQUENCE TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT THE COOLING SAT SETPOINT.

2. WHEN ENABLED, THE ECONOMIZER IS USED AS THE FIRST STAGE OF COOLING.

SUPPLY DUCT STATIC PRESSURE CONTROL

1. THE SUPPLY FAN VFD WILL BE MODULATED TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE SETPOINT. THE SUPPLY FAN VFD WILL START AT MINIMUM FAN SPEED.

STATIC PRESSURE OPTIMIZATION

1. THE BAS SHALL MONITOR THE DAMPER POSITION OF ALL VAV TERMINALS AND DETERMINE THE VAV BOX THAT SERVES THE CRITICAL ZONE (CZ). THE CRITICAL ZONE IS THE ZONE WITH THE MOST WIDE-OPEN VAV DAMPER.

2. THE BAS SHALL HAVE THE ABILITY TO IDENTIFY AND DISPLAY THE VAV BOX THAT SERVES THE CZ. THIS INFORMATION SHALL UPDATE DYNAMICALLY AS THE LOCATION OF THE CZ CHANGES BASED ON BUILDING LOAD AND STATIC PRESSURE OPTIMIZATION CONTROL.

3. THE BAS SHALL HAVE THE ABILITY TO LOCK-OUT ANY TROUBLE VAV BOXES OR VAV BOXES WHICH HAVE BEEN OVERRIDDEN TO MAINTAIN A RTU MINIMUM EVAPORATOR COOLING AIRFLOW.

4. WHEN THE CZ IS LESS THAN 90 PERCENT OPEN AND THE SPACE TEMPERATURE IS SATISFIED, THE BAS SHALL RESET THE DUCT STATIC PRESSURE SETPOINT DOWN BY 0.10 IN WG AT A FREQUENCY OF 10 MINUTES UNTIL THE CZ IS MORE THAN 90 PERCENT OPEN OR THE DUCT STATIC PRESSURE HAS RESET DOWN TO THE SYSTEM MINIMUM DUCT STATIC PRESSURE SETPOINT OR THE SUPPLY FAN VFD IS AT MINIMUM SPEED.

5. WHEN THE CZ IS GREATER THAN 95 PERCENT OPEN AND SPACE TEMPERATURE IS NOT SATISFIED, THE BAS SHALL RESET THE DUCT STATIC PRESSURE UP BY 0.10 IN WG AT A FREQUENCY OF 10 MINUTES UNTIL THE CZ IS LESS THAN 95 PERCENT OPEN OR THE DUCT STATIC PRESSURE HAS RESET UP TO THE MAXIMUM DUCT STATIC PRESSURE SETPOINT OR THE SUPPLY FAN IS AT MAXIMUM SPEED.

SUPPLY AIR TEMPERATURE SETPOINT RESET

1. THE BAS SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL RESET THE SAT SETPOINT BASED ON OA CONDITIONS AND SATISFYING ZONE COOLING REQUIREMENTS.

2. WHEN OA TEMPERATURE IS BELOW 55 DEG F, THE MAXIMUM COOLING SAT SETPOINT SHALL BE 65 DEG F.

3. WHEN THE CZ IS LESS THAN 90 PERCENT OPEN AND THE SPACE TEMPERATURE IS SATISFIED AND THE DUCT STATIC PRESSURE SETPOINT IS AT MINIMUM SETTING OR THE SUPPLY FAN IS AT MINIMUM SPEED, THE BAS SHALL HOLD THE DUCT STATIC PRESSURE SETPOINT CONSTANT AND RESET THE COOLING SAT SETPOINT UP BY 1.0 DEG F AT A FREQUENCY OF 5 MINUTES UNTIL THE CZ IS MORE THAN 90 PERCENT OPEN OR THE SUPPLY AIR TEMPERATURE HAS BEEN RESET TO THE MAXIMUM COOLING SAT SETPOINT.

4. WITH THE DUCT STATIC PRESSURE SETPOINT HELD CONSTANT, WHEN THE CZ IS GREATER THAN 95 PERCENT OPEN AND THE SPACE TEMPERATURE IS NOT SATISFIED, THE BAS SHALL RESET THE COOLING SAT SETPOINT DOWN BY 1.0 DEG F AT A FREQUENCY OF 5 MINUTES UNTIL THE CZ IS LESS THAN 95 PERCENT OPEN OR THE COOLING SUPPLY AIR TEMPERATURE HAS BEEN RESET TO THE MINIMUM COOLING SAT SETPOINT.

BUILDING PRESSURE AND EXHAUST FAN CONTROL

1. THE EXHAUST FAN SHALL BE ENABLED BASED ON BUILDING DIFFERENTIAL PRESSURE WHEN IN ECONOMIZING MODE ONLY.

2. WHEN THE SUPPLY FAN IS OPERATING AND THE BUILDING STATIC PRESSURE RISES ABOVE THE BUILDING STATIC PRESSURE SETPOINT PLUS THE DEADBAND, THE EXHAUST FAN WILL BE ENABLED AND THE EXHAUST FAN VFD WILL BE MODULATED TO MAINTAIN BUILDING STATIC PRESSURE SETPOINT.

SAFETY SHUTDOWNS

1. HIGH AND LOW STATIC SHUTDOWN: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING EITHER A HARD-WIRED HIGH OR LOW STATIC PRESSURE SHUTDOWN SIGNAL

2. GENERAL FIRE ALARM: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A GENERAL ALARM FROM THE FIRE ALARM SYSTEM.

3. SUPPLY AND RETURN AIR SMOKE DETECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING EITHER A RETURN AIR SMOKE DETECTOR STATUS OR A SUPPLY AIR SMOKE DETECTOR STATUS.

MINIMUM OUTSIDE AIR CONTROL

1. THE RTU LOCAL CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER TO ITS MINIMUM OA POSITION WHEN THE SUPPLY FAN STATUS IS ON.

2. WHEN THE ECONOMIZER IS DISABLED, THE OA CFM MINIMUM SETPOINT SHALL BE THE OA MINIMUM CFM SCHEDULED.

3. MINIMUM OUTSIDE AIR DAMPER POSITION WILL BE SET DURING TAB TO PROVIDE SCHEDULED MINIMUM OUTSIDE AIRFLOW WHEN VAV BOXES ARE AT MAXIMUM AIRFLOW.

ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD)

1. THE FDD WILL PROVIDE A SYSTEM STATUS SHOWING:

   A. FREE COOLING IS AVAILABLE
   B. ECONOMIZER ENABLED
   C. COMPRESSOR ENABLED
   D. MIXED AIR LOW LIMIT CYCLE ACTIVE

2. THE FDD WILL DETECT THE FAULT AND NOTIFY THE OPERATOR USING LOCAL ANNUNCIATION AND PROVIDE A FAULT SIGNAL VIA A BUILDING COMMUNICATION SYSTEM (BACNET):

   A. AIR TEMPERATURE SENSOR FAULT/FAILURE
   B. NOT ECONOMIZING WHEN REQUIRED
   C. ECONOMIZING WHEN NOT REQUIRED
   D. DAMPER NOT MODULATING
   E. EXCESS

OUTDOOR AIR DX COOLING CONTROL

1. DX COOLING SHALL STAGE LAST IN SEQUENCE TO MAINTAIN SAT SETPOINT AND SHALL BE ENABLED WHENEVER:

   A. THE SAT EXCEEDS THE SAT SETPOINT,
   B. AND THE ECONOMIZER IS EITHER DISABLED OR FULLY OPEN,
   C. AND THE SUPPLY FAN STATUS IS ON.

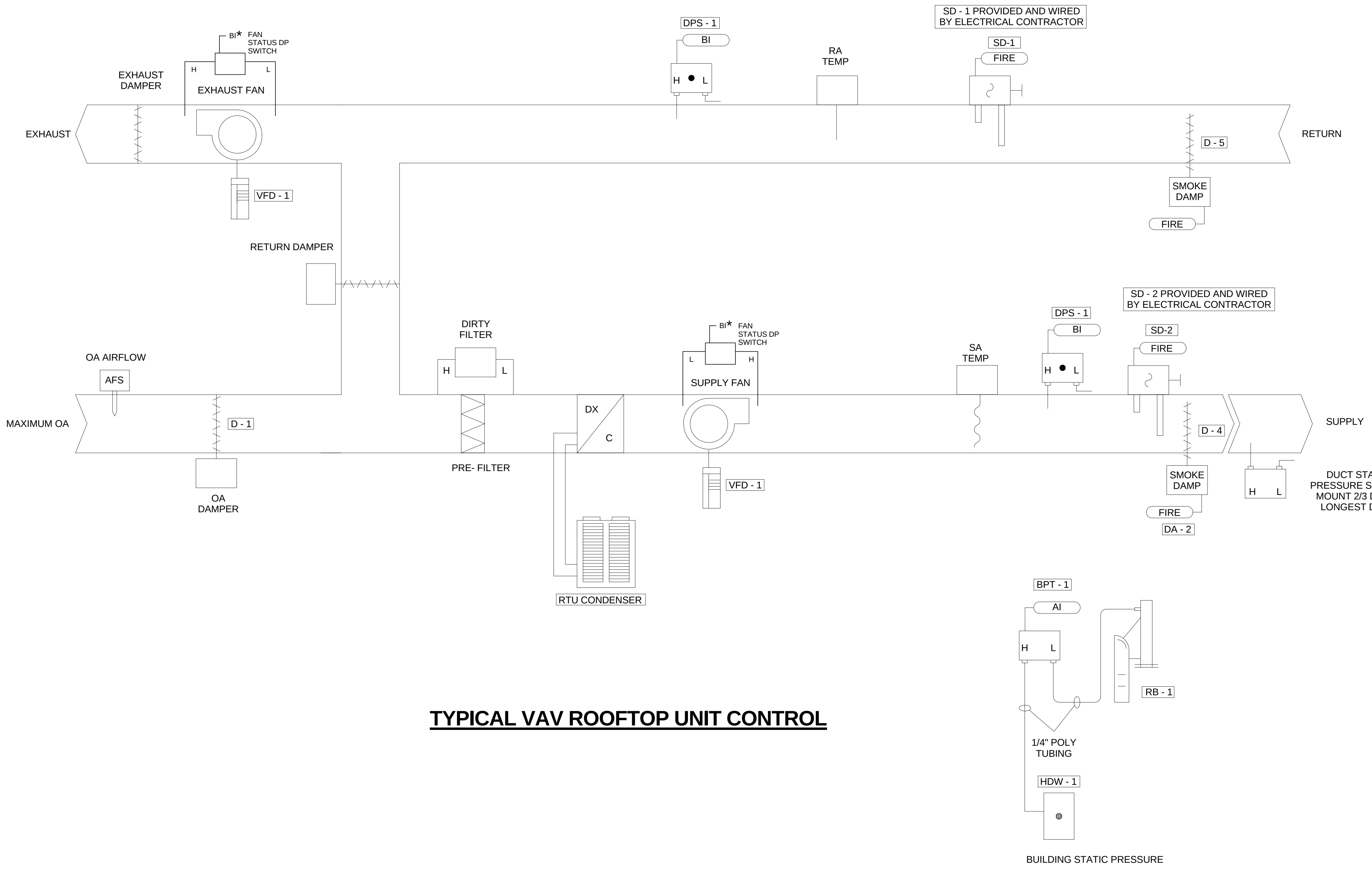
2. THE RTU LOCAL CONTROLLER SHALL STAGE THE COOLING CAPACITY TO MAINTAIN THE SAT AT SETPOINT.

FILTER DIFFERENTIAL PRESSURE MONITOR

1. THE BAS SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER AND FINAL FILTER.

2. ALARMS SHALL BE PROVIDED AS FOLLOWS:

   A. PRE-FILTER CHANGE REQUIRED: PRE-FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT.
   B. FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT.



TYPICAL VAV ROOFTOP UNIT CONTROL

VAV ROOFTOP UNIT INTERFACE MONITOR (RTU-1&RTU-2)

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
DUCT STATIC PRESSURE					X			X		X
BUILDING STATIC PRESSURE					X			X		X
RETURN AIR TEMP					X			X		X
SUPPLY AIR TEMP					X			X		X
OUTSIDE AIR TEMP					X			X		X
SUPPLY AIR CFM					X			X		X
OUTSIDE AIR CFM					X			X		X
OUTSIDE AIR DAMPER POSITION					X					X
RETURN AIR DAMPER POSITION					X					X
SUPPLY FAN VFD SPEED					X					X
EXHAUST FAN VFD SPEED					X					X
MINIMUM OA DAMPER POSITION SETPOINT					X					X
OUTSIDE AIR CFM SETPOINT					X					X
UNIT CONTROL STATUS					X					X
MODULATING HEATING POSITION					X					X
MODULATING COOLING POSITION					X					X
DUCT STATIC PRESSURE SETPOINT					X					X
BUILDING STATIC PRESSURE SETPOINT					X					X
SAT COOLING SETPOINT					X					X
SAT HEATING SETPOINT					X					X
WARM-UP SETPOINT					X					X
FILTER STATUS						X				X
SUPPLY FAN START/STOP						X				X
ECONOMIZER ENABLED						X				X
HEATING ENABLED						X				X
COOLING ENABLED						X				X

VAV ROOFTOP UNIT RTU-1&RTU-2

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
CRITICAL ZONE					X			X		X
TIMED OVERRIDE					X			X		X
HIGH SUPPLY AIR STATIC PRESSURE									X	
LOW RETURN AIR STATIC PRESSURE									X	
HIGH BUILDING STATIC PRESSURE									X	
SUPPLY FAN FAILURE									X	
EXHAUST FAN FAILURE									X	
HIGH SUPPLY AIR TEMPERATURE									X	
LOW SUPPLY AIR TEMPERATURE									X	

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GRAYSON H. ADAMS
NUMBER PE-2007009102
2-15-19
ENGINEER OF RECORD

DATES OF ISSUANCE
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TITLE
CONTROLS - HVAC

SHEET
M301

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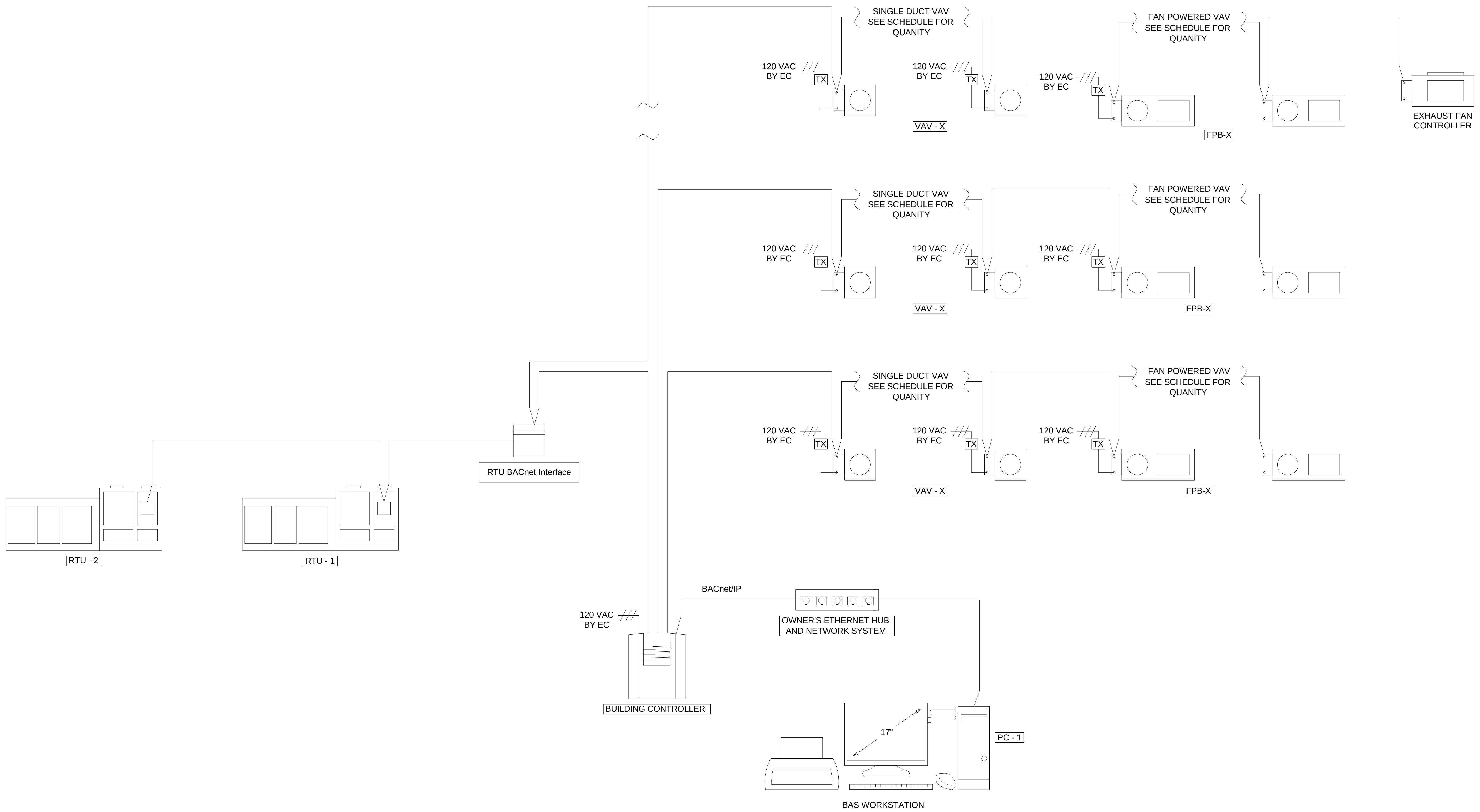
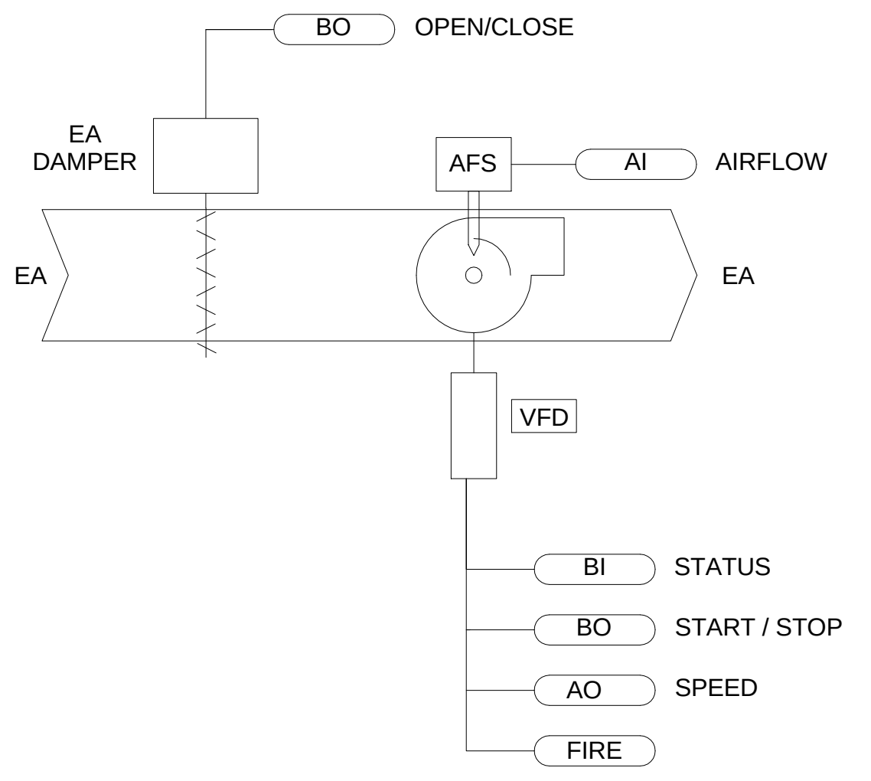


AUTOMATION SYSTEM LAYOUT AND COMMUNICATION RISER



TYPICAL EXHAUST FAN CONTROL

EXHAUST FAN
SEQUENCE OF OPERATION
EF-1 & EF-2

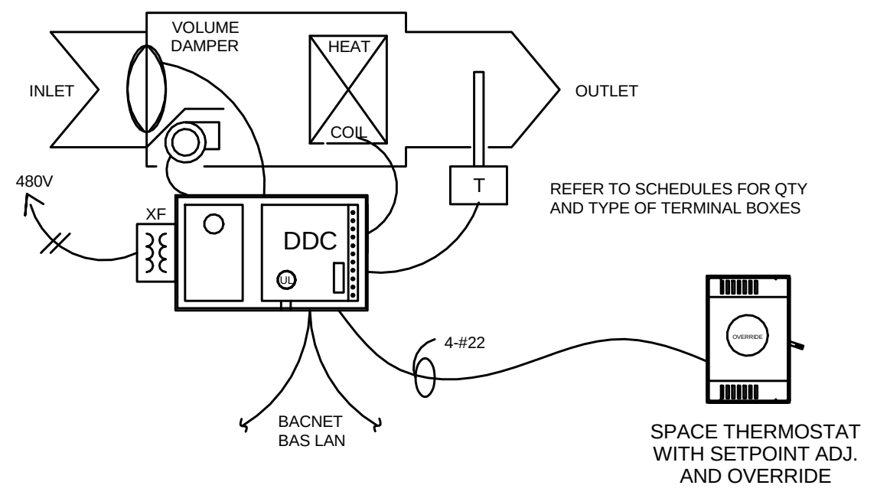
1. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL START/STOP THE EXHAUST FAN ACCORDING TO A USER DEFINABLE TIME SCHEDULE.
2. THE BAS SHALL OPEN THE EA DAMPER WHENEVER THE EXHAUST FAN IS SCHEDULED TO RUN.
3. THE FIRE ALARM SYSTEM SHALL STOP THE EXHAUST FAN WHEN AN ALARM CONDITION EXISTS.
4. THE EXHAUST FAN SPEED CONTROL IS USED FOR BALANCING PURPOSES.
5. THE BAS SHALL MONITOR THE EXHAUST FAN AIRFLOW. THE AIRFLOW WILL BE USED FOR BALANCING PURPOSES ONLY.

EXHAUST FAN EF-1 & EF-2

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
EF AIRFLOW	X									X
EF SPEED (VFD)		X								X
EXHAUST FAN EF STATUS			X							X
EF START/STOP				X			X	X		X
EF FAILURE									X	
EF DAMPER OPEN/CLOSE				X						

TYPICAL SPACE VAV TERMINAL BOX CONTROL

TYPICAL FAN POWERED VAV BOX CONTROL



REFER TO SCHEDULES FOR QTY AND TYPE OF TERMINAL BOXES

ALL VAV BOX THERMOSTATS SHALL INCLUDE AN AFTERHOURS OVERRIDE AND LOCAL SETPOINT ADJUSTMENT. ALL SETUP PARAMETERS FOR THE VAV BOXES WILL BE ADJUSTABLE FROM THE SPACE THERMOSTAT.

SPACE CO2
SENSOR

FAN POWERED VAV CONTROL

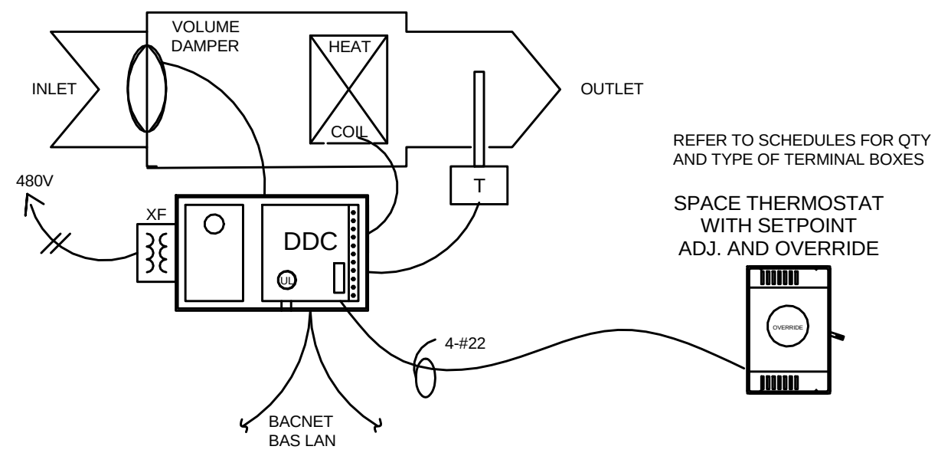
THE CENTRAL BAS SYSTEM SHALL INDEX THE VAV BOX TO THE OCCUPIED OR UNOCCUPIED MODE IN ACCORDANCE WITH AN OWNER DEFINED TIME SCHEDULE.

OCCUPIED MODE - DURING THIS MODE THE DDC CONTROLLER WILL CONTROL THE VAV BOX TO MAINTAIN THE SPACE TEMPERATURE AT THE SETPOINT SELECTED AT THE LOCAL THERMOSTAT. UPON A FALL IN SPACE TEMPERATURE THE AIRFLOW FROM THE VAV BOX WILL BE MODULATED FROM MAXIMUM TO MINIMUM FLOW LIMITS. UPON A CONTINUED FALL IN SPACE TEMPERATURE FAN SHALL BE STARTED AND THE STAGES OF ELECTRIC HEAT WILL BE ENERGIZED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT.

UNOCCUPIED MODE - DURING THIS MODE THE DDC CONTROLLER WILL CONTROL THE VAV BOX TO MAINTAIN THE SPACE TEMPERATURE AT THE OWNER SELECTED UNOCCUPIED HTG/CLG SETPOINTS. UPON A FALL IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT THE FAN SHALL BE STARTED AND STAGES OF ELECTRIC HEAT WILL BE ENERGIZED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE. UPON A RISE IN SPACE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SETPOINT THE VAV BOX SHALL REQUEST A RUN COMMAND TO THE AHU SERVING THE AREA. THE VAV BOX DAMPER WILL OPEN TO MAXIMUM FLOW. ONCE THE SPACE TEMPERATURE HAS DROPPED 5 DEGREES THE RUN REQUEST TO THE AHU WILL BE TERMINATED.

AFTER HOURS OVERRIDE - THE SPACE THERMOSTAT SHALL ALLOW THE OCCUPANT TO OVERRIDE THE SYSTEM INTO THE OCCUPIED MODE OF OPERATION FOR AN OWNER SELECTED TIME DURATION.

TYPICAL VAV ELECTRIC REHEAT BOX CONTROL



REFER TO SCHEDULES FOR QTY AND TYPE OF TERMINAL BOXES

VAV REHEAT CONTROL

THE CENTRAL BAS SYSTEM SHALL INDEX THE VAV BOX TO THE OCCUPIED OR UNOCCUPIED MODE IN ACCORDANCE WITH AN OWNER DEFINED TIME SCHEDULE.

OCCUPIED MODE - ANYTIME THE ASSOCIATED AHU IS OPERATING THE DDC CONTROLS WILL BE ENABLED. ONCE ENABLED THE INLET DAMPER WILL BE MODULATED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. THE AIRFLOW FROM THE VAV BOX WILL BE LIMITED TO THE MINIMUM AND MAXIMUM FLOW SETPOINTS. UPON A CONTINUED DROP IN SPACE TEMPERATURE THE VAV BOX SHALL DELIVER IT'S SCHEDULED HEATING AIRFLOW AND STAGES OF ELECTRIC HEAT ACTIVATED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT.

UNOCCUPIED COOLING MODE - IF THE VAV'S ASSOCIATED AIR HANDLER IS STARTED IN THE NIGHT SETBACK MODE, THE DDC CONTROLLER WILL MODULATE THE INLET DAMPER TO MAINTAIN THE OWNER-SELECTED UNOCCUPIED COOLING SETPOINTS.

UNOCCUPIED HEATING MODE - IF THE VAV'S ASSOCIATED AIR HANDLER IS STARTED IN THE NIGHT SETBACK MODE, THE DDC CONTROLLER WILL MODULATE THE INLET DAMPER AND ELECTRIC HEAT TO MAINTAIN THE OWNER-SELECTED UNOCCUPIED HEATING SETPOINTS.

AFTER HOURS OVERRIDE - THE SPACE THERMOSTAT SHALL ALLOW THE OCCUPANT TO OVERRIDE THE SYSTEM INTO THE OCCUPIED MODE OF OPERATION FOR AN OWNER SELECTED TIME DURATION.

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GRAYSON H. ADAMS
NUMBER
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PROFESSIONAL ENGINEER

ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE
CONTROLS - HVAC

SHEET
M302

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
GENERAL	
⌒	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
⌒	CONDUIT CONCEALED BELOW FLOOR OR GRADE
- - - - -	CONDUIT EXPOSED
····· - —	LOW VOLTAGE CABLE
↙⌒	HOMERUN CONDUIT, SEE PANEL SCHEDULE FOR CIRCUIT SIZE
↙⌒	HOMERUN CONDUIT, 2 CIRCUITS, 3 #12 AND 1 #12 GROUND, 1/2"C.
—⬡XX⬡—	FEEDER LABEL. SEE CIRCUIT SCHEDULE FOR SIZE
LIGHTING	
▭	RECESSED FLUORESCENT FIXTURE
⧅ ⊘	RECESSED INCANDESCENT OR H.I.D. FIXTURE
⊡ ○	SURFACE MTD. INCANDESCENT OR H.I.D. FIXTURE
⌖	SUSPENDED PENDANT FIXTURE - REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS
⊢○ ▭	WALL MOUNTED FIXTURE
◪	PARTIAL HATCH INDICATES EMERGENCY EGRESS FIXTURE. SWITCHED
■	FULL HATCH INDICATES EMERGENCY EGRESS FIXTURE. UNSWITCHED
⊗ ⊗	EXIT FIXTURE, CEILING MTD. & WALL MOUNTED. SHADED SECTION INDICATES EXIT "SIGNAGE". CHEVRONS INDICATED BY ARROWS.
⊗ ⊗	COMBO EXIT FIXTURE, CEILING MTD. & WALL MOUNTED. SHADED SECTION INDICATES EXIT "SIGNAGE". CHEVRONS INDICATED BY ARROWS.
▨	EMERGENCY EGRESS WALL MNTD FIXTURE
$	SWITCH, SINGLE POLE, 20A., 120/277V.
$\$_2$	SWITCH, 2-POLE, 20A., 120/277V.
$\$_3$	SWITCH, 3-WAY, 20A., 120/277V.
$\$_D$	LINE VOLTAGE: SLIDE CONTROL DIMMER SWITCH - HUBBELL S11I (1000W) LOW VOLTAGE: SLIDE CONTROL DIMMER SWITCH - LUTRON NTLV (1500W)
1	PIR WALL MNTD SENSOR SWITCH W/ 1 BUTTON, WATTSTOPPER PW100 - 20A, 120/277V, 30SEC TO 30 MIN DELAY
2	DUAL TECH WALL MNTD SENSOR SWITCH W/ 1 BUTTON, WATTSTOPPER DW100 -20A, 120/277V, 30 SEC TO 30 MIN DELAY
3	DUAL TECH WALL MNTD SENSOR SWITCH W/ 2 BUTTONS, WATTSTOPPER DW200 DUAL RELAY, 20A, 120/277V, 30 SEC TO 30 MIN DELAY
ZS	LIGHTING CONTROL PANEL ZONE SWITCH (* DENOTES SWITCH ID - BUTTON #)
PP	POWER PACK - WATTSTOPPER BZ-100
SP	SLAVE PACK - WATTSTOPPER S120/277/347E-P
◀→	24V: WALL MNTD DUAL TECH OCC SENSOR W/ LIGHT LEVEL- WATTSTOPPER DT-200
◁→	24V: WALL MNTD PIR SENSOR - WATTSTOPPER CX-105
◁→	120/277V: WALL MNTD WEATHERPROOF PIR SENSOR - WATTSTOPPER EN-100-*-W
←◇→	24V: CEILING MNTD ULTRASONIC OCC SENSOR - WATTSTOPPER WT-2255
⬡	120/277V: CEILING MNTD ULTRASONIC OCC SENSER - WATTSTOPPER UT-355
⬢	120/277V: CEILING MNTD DUAL TECH OCC SENSER - WATTSTOPPER DT-355
⬡	120/277V: CEILING MNTD PIR OCC SENSER - WATTSTOPPER CI-355
◇	24V: CEILING MNTD ULTRASONIC OCC SENSER- WATTSTOPPER UT-305-2
◆	24V: CEILING MNTD DUAL TECH OCC SENSER W/ LIGHT LEVEL- WATTSTOPPER DT-300
◈	24V: CEILING MNTD PIR OCC SENSER W/ LIGHT LEVEL- WATTSTOPPER CI-305
LCP	LIGHTING CONTROL PANEL 20A RATED RELAYS - REFER TO LCP SCHEDULE
TC	TIME CLOCK, TORK DIGITAL E101
PC	PHOTOELECTRIC CELL, TORK 2101
DS	DOOR CONTACT LIGHT SWITCH, 125V - THOMAS & BETTIS DN415
POWER	
⦶	RECEPTACLE, DUPLEX, 125V.
ϕ_{30}	RECEPTACLE, SINGLE, 125V., AMPERAGE INDICATED
⦶	RECEPTACLE, DUPLEX, 125V., SPECIAL MNTG HEIGHT - SEE DETAIL IF HEIGHT NOT NOTED.
ϕ_{50}	RECEPTACLE, SINGLE, 250V., AMPERAGE INDICATED
ϕ_{GFI}	RECEPTACLE, DUPLEX, 125V., GFIC
⦶	RECEPTACLE, QUAD, 125V.
ϕ_{TR}	RECEPTACLE, DUPLEX, TAMPER RESISTANT, HBLSG62HW
ϕ_{S}	SURGE SUPPRESSION RECEPTACLE, DUPLEX, 20A, 125 VOLT
ϕ_{H}	RECEPTACLE, DUPLEX, 125V, 20A, HOSPITAL GRADE.
▨	DISTRIBUTION PANEL
◢	ELECTRICAL PANEL - 120/208 OR 120/240 VOLT
■	ELECTRICAL PANEL - 277/480 VOLT
▭	FUSED DISCONNECT SWITCH. VOLTAGE RATING/AMPS/POLES/FUSE SIZE/ENCLOSURE TYPE
⍁	NON-FUSED DISCONNECT SWITCH. VOLTAGE RATING/AMPS/POLES/ENCLOSURE TYPE
⊠	COMBINATION TYPE MOTOR STARTER
T	TRANSFORMER
S_M	MOTOR RATED DISC. SWITCH; NO THERMAL OVERLOAD
⑤	MOTOR WITH APPROXIMATE HORSEPOWER, F.B.O.
Ⓙ	JUNCTION BOX, 4" SINGLE BOX, UON
Ⓙ~	JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT
SYSTEMS - DATA/COMM ROUGH-IN	
◀	4" BACK BOX WITH 3/4" CONDUIT TO ABOVE CEILING
◁	4" BACK BOX WITH 1-1/4" CONDUIT TO ABOVE CEILING
◀	SAME AS FLOOR MOUNTED FLUSH DUPLEX RECEPTACLE W/ 1" PVC TO WALL, 1" EMT TO ABOVE FINISHED CEILING
◀	4" BACK BOX WITH 1"C TO ABOVE CEILING, SPECIAL MOUNTING HEIGHT

ELECTRICAL LEGEND (CONT.)

SYMBOL	DESCRIPTION
SYSTEMS - FIRE ALARM	
FACP	FIRE ALARM CONTROL PANEL
▣	FIRE ALARM SYSTEM, MANUAL PULL STATION
▷⊠30	FIRE ALARM SYSTEM HORN/STROBE COMBINATION; 15 CD RATING UNLESS NOTED
⊠	FIRE ALARM SYSTEM STROBE; 15 CD RATING
Ⓢ⊠30	FIRE ALARM SYSTEM SPEAKER/STROBE COMBINATION; 15 CD RATING UNLESS NOTED
▷⊠ Ⓢ⊠	CEILING MOUNTED FIRE ALARM SYSTEM HORN/STROBE - SPEAKER/STROBE
HD	190 DEGREE RISE HEAT DETECTOR
SD	CEILING MNTD. SMOKE DETECTOR
DSD	DUCT MNTD. SMOKE DETECTOR
FS	SPRINKLER SYSTEM FLOW SWITCH, FBO
TS	SPRINKLER SYSTEM TAMPER SWITCH, FBO
⊢●	MAGNETIC DOOR HOLDER, FLOOR OR WALL MNTD.
⊗	FIRE SMOKE DAMPER. 120V. MONITORED BY BUILDING FIRE ALARM SYSTEM
⊗	FIRE DAMPER. 24VDC. MONITORED BY BUILDING FIRE ALARM SYSTEM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
SYSTEMS - OTHER	
CR1	ELECTRIC STRIKE SECURITY SYSTEM CARD READER - REFER TO DETAIL SHEET FOR REQUIREMENTS
CR2	MAG LOCK SECURITY SYSTEM CARD READER - REFER TO DETAIL SHEET FOR REQUIREMENTS
TV	TV ROUGH-IN 4" JBOX WITH 3/4"C TO AFC, SEE ARCHITECTURAL ELEVATIONS FOR MNTG HTS.
ABBREVIATIONS	
*A	AMPERAGE
*V	VOLTAGE
ABG	ABOVE GRADE
ADJ INST	ADJUSTABLE INSTANTANEOUS SETTINGS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AWG	AMERICAN WIRE GAUGE
CB	CIRCUIT BREAKER
CD	CANDELA
CF	COMPACT FLOURESCENT
CLG	CEILING
*C	CONDUIT
CU	CONDENSING UNIT
dB	DECIBEL
DISC	SAFETY DISCONNECT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FSD	FIRE/SMOKE DAMPER
FWE	FURNISHED WITH EQUIPMENT
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
KVA	KILOVOLT-AMP
KW	KILOWATT
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
MCM	WIRE SIZE - THOUSAND CIRCULAR MILS (ALSO KNOWN AS KCMIL)
MH	METAL-HALIDE LAMP
MNTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
OCC	OCCUPANCY
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PNL	PANEL
PF	POWER FACTOR
PH	PHASE
PS	PROVISIONAL SPACE
RTU	ROOF TOP UNIT
SPD	SURGE PROTECTIVE DEVICES
TBB	TELEPHONE BACK BOARD
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHERPROOF
XFMR	TRANSFORMER

NOTE: ALL ITEMS MAY NOT APPEAR ON PLANS

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

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STATUS
CONSTRUCTION DOCUMENTS

JUDSON H. ADAMS
NUMBER PE-2007009103
2-15-19
ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE
LEGEND - ELECTRICAL

SHEET
E001

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CAT NUMBER	VOLTAGE	LAMPS	INPUT WATTS	MOUNTING	REMARKS
A	LITHONIA	SPM9L-4T-800CRI-35K-1D100LMF-0/100-DARK-ZT-120-SCT-F2/36A-CO32	UNV	LED	41	SUSPENDED	1x4 CABLE HUNG
B	LITHONIA	BLT4-30L-ADP-EZ1-LP835	UNV	LED	34	RECESSED	1x4 LED RECESS VOLUMETRIC RECESSED
C	LITHONIA	LDN6-35/15-L06AR-LSSLMVOLT-EZ10	UNV	LED	20.5	RECESSED	6" OPEN DOWNLIGHT
CE	LITHONIA	LDN6-35/15-L06AR-LSSLMVOLT-EZ10-ELSD	UNV	LED	20.5	RECESSED	6" OPEN DOWNLIGHT, W/ BATTERY BACKUP
DE	LITHONIA	WL4-30L-EZB-LP835-N100-NESPCT7	UNV	LED	29	WALL	WALL BRACKET AND SURFACE MOUNTED LED
F1	LITHONIA	2VTL2-40L-ADP-EZ1-LP835	UNV	LED	47	RECESSED	2x2 LED RECESS VOLUMETRIC RECESSED
F1E	LITHONIA	2VTL2-40L-ADP-EZ1-LP835-EL14L	UNV	LED	47	RECESSED	2x2 LED RECESS VOLUMETRIC RECESSED WITH BATTERY PACK
G	LITHONIA	LDN4-40-15-WR-LS-MVOLT-EZ10	UNV	LED	20.4	RECESSED	4" DOWNLIGHT REST ROOMS
L	FINELITE	HP2-1D-X-X-V-S-835-WSO-F-96LG-UNV-SC-FA-FE-CX	UNV	LED	7.1 W/FT	PENDANT	DIRECT/INDIRECT LINEAR PENDANT, LENGTHS PER PLAN
LE	FINELITE		UNV	LED	7.1 W/FT	PENDANT	DIRECT/INDIRECT LINEAR PENDANT, W/ EMERGENCY BATTERY PACK
S	HYDREL	3140C-H42-8COB-50K-MVOLT-FT-BL	UNV	LED	72	CONC BASE	BOLLARD LED SQUARE FLAT TOP
S1	NEPTUN	LED-31260-M3-UNV	UNV	LED	260	POLE	SINGLE HEAD LED SITE FIXTURE TO MATCH EXISTING. TYPE 3 DIST. POLE TO MATCH EXISTING
S2	NEPTUN	LED-31260-M3-UNV	UNV	LED	520	POLE	DOUBLE HEAD LED SITE FIXTURE TO MATCH EXISTING. TYPE 3 DIST. POLE TO MATCH EXISTING
S3	LITHONIA	WST LED P2 40K VW MVOLT E20CW	UNV	LED	47	SURFACE	EXTERIOR WALL PACK, COLOR TO BE SELECTED BY ARCHITECT, W/EMERGENCY BALLAST
VT	LITHONIA	OVT-150I-120	120	INCAN	150	SURFACE	VAPOR TIGHT ELEVATOR PIT LIGHT
X1	LITHONIA	LQM-SW-3-R-120/277-EL-N	UNV	LED	N/A	SURFACE	EXIT LED THERMOPLASTIC

NOTE: 1. PROVIDE A FACTORY INSTALLED WATTAGE RESTRICTION LABEL WHERE FIXTURE RATING MAY EXCEED INDICATED LAMPING.

CIRCUIT SCHEDULE - COPPER

CIRCUIT #	PHASE & NEUTRAL CONDUCTORS	GND CONDUCTOR (PER CONDUIT)	2-WIRE CONDUIT SIZE	3-WIRE CONDUIT SIZE	4-WIRE CONDUIT SIZE
20	12	12	1/2"	1/2"	1/2"
30	10	10	1/2"	3/4"	3/4"
40	8	10	3/4"	3/4"	1"
50	8	10	3/4"	3/4"	1"
60	6	10	3/4"	1"	1-1/4"
70	6	8	3/4"	1"	1-1/4"
80 OR 90	4	8	1"	1-1/4"	1-1/4"
100	3	8	1"	1-1/4"	1-1/4"
125	1	6	1-1/4"	1-1/2"	2"
150	1/0	6	1-1/4"	1-1/2"	2"
175	2/0	6	1-1/4"	2"	2"

CIRCUIT SCHEDULE - ALUMINUM

CIRCUIT #	PHASE & NEUTRAL CONDUCTORS	GND CONDUCTOR (PER CONDUIT)	2-WIRE CONDUIT SIZE	3-WIRE CONDUIT SIZE	4-WIRE CONDUIT SIZE
200	250	4		2-1/2"	3"
225	300	2	—	3"	3"
250	350	2	—	3"	3"
300	500	2	—	3"	3-1/2"
400	750	1	—	4"	4"
500	2-350	1/0	—	(2)3"	(2)3"
600	2-500	2/0	—	(2)3"	(2)3-1/2"
800	3-400	2/0	—	(3)3"	(3)3-1/2"
1000	3-750	4/0	—	(3)4"	(3)4"
1200	4-500	250	—	(4)3"	(4)3-1/2"
1600	5-600	350	—	(5)3-1/2"	(5)3-1/2"
2000	6-600	400	—	(6)4"	(6)4"
2500	7-750	500	—	(7)4"	(7)4"
4000	12-600	350	—	(12)4"	(12)4"

NOTES:

1. 3 PHASE, 3 WIRE CIRCUITS (WITHOUT A NEUTRAL) ARE DESIGNATED THUS:	XX
2. 3 PHASE, 4 WIRE CIRCUITS (WITH A NEUTRAL) ARE DESIGNATED THUS:	XX N
3. SINGLE PHASE, 2 WIRE CIRCUITS (WITHOUT A NEUTRAL) ARE DESIGNATED THUS:	XX SP
4. SINGLE PHASE, 3 WIRE CIRCUITS (WITH A NEUTRAL) ARE DESIGNATED THUS:	XX SPN

TRANSFORMER SCHEDULE

LABEL	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	SECONDARY FEEDER	CU GND ELECTRODE	COMMENTS
T1L	112.5	480 D	120/208 Y	(2) 250N	#1/0	GENERAL PURPOSE
T2L	112.5	480 D	120/208 Y	(2) 250N	#1/0	GENERAL PURPOSE
T3L	112.5	480 D	120/208 Y	(2) 250N	#1/0	GENERAL PURPOSE

REMARKS:

1. GENERAL PURPOSE TRANSFORMERS SHALL BE ALUMINUM WINDING WITH 150C TEMP RISE, UON
2. K-RATED TRANSFORMERS SHALL BE COPPER WINDINGS, DOUBLE SIZED NEUTRAL TERMINAL, 115 C TEMP RISE
3. TRANSFORMERS SHALL BE BY SAME MANUFACTURER AS PANELBOARDS
4. PROVIDE FLEXIBLE CONDUIT TO AND FROM TRANSFORMER
5. SEE SPECIFICATION SECTION 16465.

D = DELTA CONNECTION, 3 WIRE
Y = WYE CONNECTION, 4 WIRE
SP = SINGLE PHASE CONNECTION, 2 WIRE
SPN = SINGLE PHASE CONNECTION, 3 WIRE

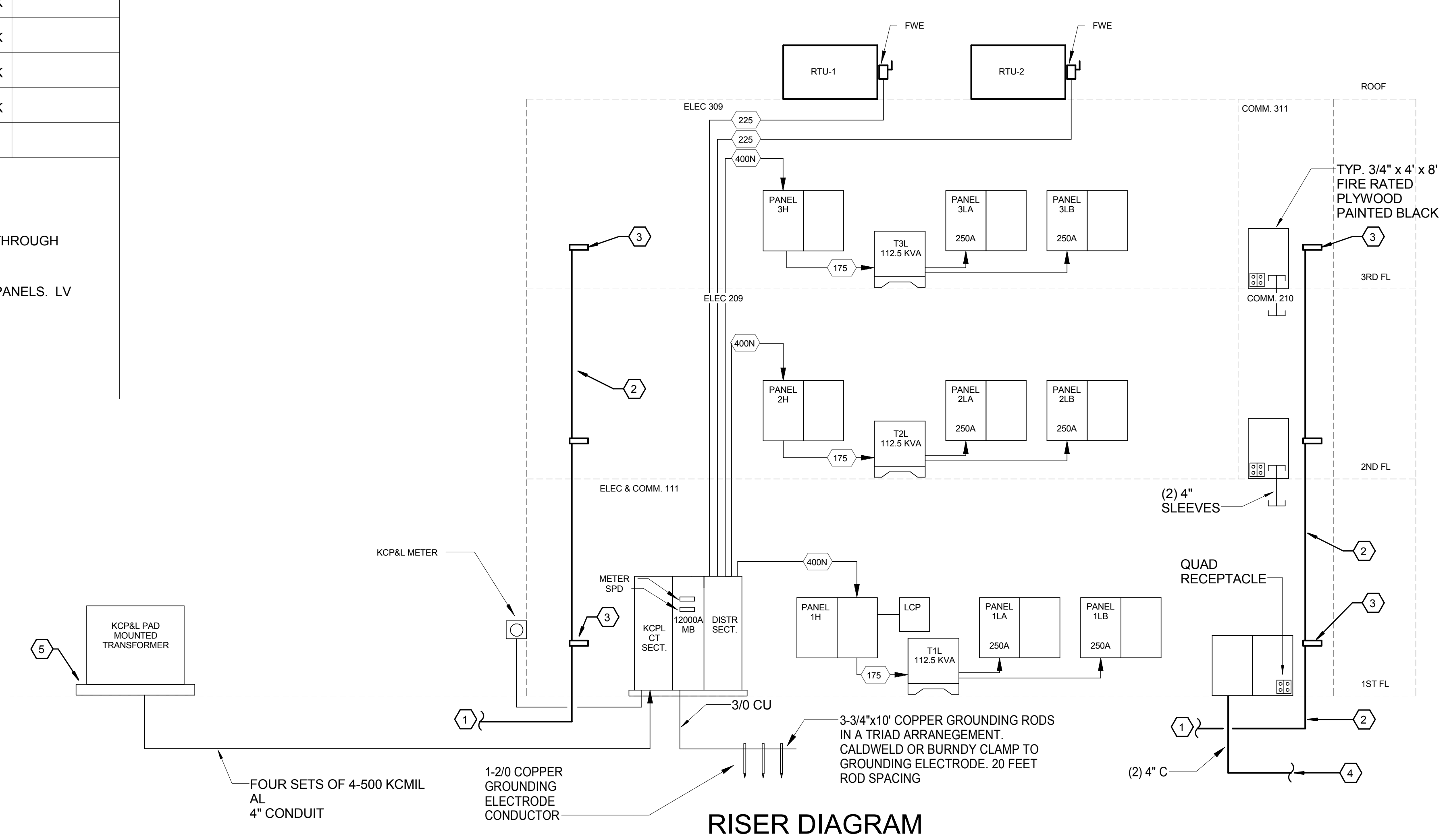
LIGHTING CONTROL PANEL SCHEDULE : LCP

RELAY #	CIRCUIT #	DESCRIPTION	SCHEDULE(2)		
			ON	OFF	OVER-RIDE
1	1H-38	SITE POLE LIGHTS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
2	1H-40	SITE POLE LIGHTS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
3	1H-41	SITE POLE LIGHTS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
4	1H-42	SITE POLE LIGHTS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
5	1H-43	BOLLARDS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
6	1H-44	SITE POLE LIGHTS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
7	1H-20	EXTERIOR WALL PACKS	PHOTOCELL	PHOTOCELL/TIMECLOCK	
8		SPARE RELAY			

REMARKS:

1) MAXIMUM OVER-RIDE PERIOD IS 2-HOURS
2) COORDINATE SCHEDULE HOURS WITH OWNER PRIOR TO FACTORY TRAINING.
3) PROVIDE LIGHTING CONTROL RELAY PANEL. SEE SPECIFICATIONS. ROUTE ABOVE CIRCUITS THROUGH RELAY PANEL.
4) SEE LIGHTING PLAN FOR QTY AND LOCATION OF ZONE-OVERRIDE SWITCHES.
5) ZONE-OVERRIDE SWITCHES SHALL GENERALLY BE MOMENTARY DATA-LINE TYPE FOR RELAY PANELS. LV TYPE MAY BE USED FOR THE SMALLER 'PEANUT' STYLE PANELS.
6) REFER TO LEGEND FOR ZONE SWITCH DESCRIPTION DETAILS: ZS *-* (* DENOTES SWITCH ID - SWITCH BUTTON #)

MOUNT THE PHOTOCELL ON THR CANOPY



RISER DIAGRAM

SCALE: NONE

GENERAL NOTES

1. ALL SERVICE RELATED WORK TO BE DONE IN ACCORDANCE WITH KCP&L COMPANY ELECTRIC REQUIREMENTS.

KEY NOTES

1. CONNECT TO SERVICE GROUND.
2. #3/0 AWG COPPER GROUND WIRE IN CONDUIT.
3. 12"x6"x1/4" COPPER GROUND BAR ON INSULATED STANDOFFS. 24" AFF.
4. 2-4" TELEPHONE CONDUIT TO PROPERTY LINE.
5. NEW TRANSFORMER PAD.

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DESIGNER: JMG ENGINEER: JHA

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PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

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SHEET
E002

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SWITCHBOARD SCHEDULE — MSB

VOLTAGE	480/277 Wye	**AMPS**	1200	**MOUNTING**	FLOOR	**NOTES:**
PHASE	3	**MAIN**	MB	**ENCLOSURE**	NEMA 1	
WIRE	4	**MIN AIC**	65K	**FED FROM**	KCP&L	

CONNECTED LOADS

CIR#	DESCRIPTION	TRIP	POLES	CKT*	Load
1	1H	400	3	400	124.8
2	2H	400	3	400	63.9
3	3H	400	3	400	99.0
4	RTU-1	225	3		178.6
5	RTU-2	225	3		178.6
6	PROVISIONAL SPACE (225AF)	--	--	--	0.0
7	PROVISIONAL SPACE (225AF)	--	--	--	0.0
8	PROVISIONAL SPACE (225AF)	--	--	--	0.0

NOTES: PROVIDE ELECTRONIC METER AND INTEGRAL SPD. PROVIDE ELECTRONIC TRIP LSIG...

LOAD SUMMARY

CONNECTED KVA 643.9
CONNECTED AMPS 774.5

PANELBOARD SCHEDULE — SECTION ONE AND TWO OF THREE — 1H

VOLTAGE	480/277 Wye	**AMPS**	600	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MLO	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	65K	**FED FROM**	MSB	

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	T1L	175	3		5.6	0.2						1	20	VAV 1-1-1	2
3							3.0	0.0				1	20	SPARE	4
5									4.1	0.0		1	20	SPARE	6
7	FPB 2-1-1	15	3	15N	2.9	2.9					15N	3	15	FPB 2-1-2	8
9							2.9	2.9							10
11									2.9	2.9					12
13	FPB 2-1-4	15	3	15N	2.9	2.9					15N	3	15	FPB 2-1-3	14
15							2.9	2.9							16
17									2.9	2.9					18
19	FPB 1-1-3	20	3		1.5	0.3						1	20	LTG: EXTERIOR WALL...	20
21							1.5	0.0				1	20	SPARE	22
23									1.5	0.0		1	20	SPARE	24
25	EF-1	20	3		0.3	0.0						1	20	SPARE	26
27							0.3	0.0				1	20	SPARE	28
29									0.3	0.3		1	20	LTG: EMERGENCY	30
31	EWH-3	20	1		3.0	0.0						1	20	LTG: STAIRWAY #2	32
33	SPARE	20	1				0.0	1.2				1	15	VAV 1-1-2	34
35	LTG: CORRIDOR	20	1						1.0	0.0		1	20	SPARE	36
37	LTG: STAIRWAY #1	20	1		0.0										38
39								2.5				1	20	LTG: SITE LIGHT	40
41	LTG: SITE LIGHT	20	1						2.0	1.6		1	20	LTG: SITE LIGHT	42
43	LTG: BOLLARDS	20	1		0.4	2.3						1	20	LTG: SITE LIGHT	44
45	EWH-1	20	1				3.0	3.0				1	20	EWH-2	46
47	LTG: STAIRWAY #1	20	1						0.0	0.0		1	20	LTG: STAIRWAY #2	48
49						0.0						1	20	SPARE	50
51								0.0				1	20	SPARE	52
53	SHUNT TRIP	20	1						0.0	0.0		1	20	SHUNT TRIP	54
55	ELEVATOR -1	25	3	30	5.5	5.5					30	3	25	ELEVATOR -2	56
57							5.5	5.5							58
59									5.5	5.5					60
61	SHUNT TRIP	20	1		0.0	0.0					--	--	--	SPACE	62
63	FPB 1-1-1	15	3	15N			2.9	0.0			--	--	--	SPACE	64
65									2.9	0.0	--	--	--	SPACE	66
67					2.9	0.0					--	--	--	SPACE	68
69	FPB 1-1-2	15	3	15N			2.9	0.0			--	--	--	SPACE	70
71									2.9	0.0	--	--	--	SPACE	72
73					2.9	0.0					--	--	--	SPACE	74
75	SPARE	20	1				0.0	0.0			--	--	--	SPACE	76
77	SPARE	20	1						0.0	0.0	--	--	--	SPACE	78
79	SPARE	20	1		0.0	0.0					--	--	--	SPACE	80
81	SPARE	20	1				0.0	0.0			--	--	--	SPACE	82
83	SPARE	20	1						0.0	0.0	--	--	--	SPACE	84

PROVIDE FEED-THROUGH LUGS

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA
Elevator	33.20	95.00%	31.54
HVAC	69.00	100.00%	69.00
Heating	4.50	100.00%	4.50
LTG	11.17	125.00%	13.96
NON-CONT MOTORS	2.00	125.00%	2.50
RCPT	3.92	100.00%	3.92

CONNECTED KVA 123.8
DEMAND KVA 125.4
DEMAND AMPS **150.9**

PHASE A CONNECTED AMPS 154.2
PHASE B CONNECTED AMPS 157.5
PHASE C CONNECTED AMPS 142.1

PANELBOARD SCHEDULE — 1LB

VOLTAGE	120/208 Wye	**AMPS**	250	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MCB	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	10K	**FED FROM**		

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	2
3	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	4
5	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	6
7	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	8
9	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	10
11	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	12
13	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	14
15	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	16
17	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	18
19	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	20
21	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	22
23	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	24
25	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	26
27	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	28
29	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	30
31	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	32
33	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	34
35	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	36
37	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	38
39	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	40
41	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	42
43	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	44
45	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	46
47	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	48
49	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	50
51	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83										0.0	--	--	--	SPACE	84

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA

CONNECTED KVA 0.0
DEMAND KVA 0.0
DEMAND AMPS **0.0**

PHASE A CONNECTED AMPS 0.0
PHASE B CONNECTED AMPS 0.0
PHASE C CONNECTED AMPS 0.0

PANELBOARD SCHEDULE — 2LA

VOLTAGE	120/208 Wye	**AMPS**	250	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MCB	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	10K	**FED FROM**	T2L	

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	RCPT: CORRIDOR	20	1		1.1	0.5						1	20	RCPT: EWC	2
3	RCPT: COMM 166	20	1				0.4	0.4				1	20	RCPT: COMM 166	4
5	RCPT: REST RMS	20	1						0.9	0.5		1	20	LTG: TENANT SPACE	6
7	LTG: TENANT SPACE	20	1		0.3	0.6						1	20	FIRE SMOKE DAMPER	8
9	EF-2	20	2				0.7	0.0				1	20	SPARE	10
11									0.7	0.0		1	20	SPARE	12
13	SPARE	20	1		0.0	0.0						1	20	SPARE	14
15	SPARE	20	1				0.0	0.0				1	20	SPARE	16
17	SPARE	20	1						0.0	0.0		1	20	SPARE	18
19	SPARE	20	1		0.0	0.0						1	20	SPARE	20
21	SPARE	20	1				0.0	0.0			--	--	--	SPACE	22
23	SPARE	20	1						0.0	0.0	--	--	--	SPACE	24
25	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	26
27	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	28
29	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	30
31	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	32
33	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	34
35	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	36
37	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	38
39	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	40
41	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	42
43	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	44
45	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	46
47	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	48
49	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	50
51	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

100/3 BREAKERS FOR FUTURE TENANTS TO INCLUDE THE SUBMETERING SYSTEMS CT'S AND OTHER NECESSARY COMPONENTS. SEE SPEC SECTION 260913

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA
HVAC	2.00	100.00%	2.00
LTG	0.82	125.00%	1.03
RCPT	3.20	100.00%	3.20

CONNECTED KVA 6.0
DEMAND KVA 6.2
DEMAND AMPS **17.3**

PHASE A CONNECTED AMPS 21.6
PHASE B CONNECTED AMPS 11.8
PHASE C CONNECTED AMPS 18.6

PANELBOARD SCHEDULE — 1LA

VOLTAGE	120/208 Wye	**AMPS**	250	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MCB	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	1OK	**FED FROM**	T1L	

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	RCPT: CORRIDOR	20	1		0.9	0.5						1	20	RCPT:EWC	2
3	RCPT: REST RMS	20	1				0.7	1.0				1	20	SUMP PUMP ELEVATOR	4
5	LCP	20	1						0.2	2.3		2	20	Heating	6
7	RECIR PUMP	20	1		1.0	2.3									8
9	RCPT: TBB	20	1				0.4	0.5				1	20	RCPT: ELEC/FIRE PUM...	10
11	FACP	20	1						1.0	0.3		1	20	LTG: TENANT SPACE	12
13	RCPT: BAS...	20	1		0.2	0.2						1	20	RCPT: ELEVATOR PIT	14
15	RCPT: ELEVATOR PIT	20	1				0.2	0.2				1	20	LTG: TENANT SPACE	16
17	LTG: TENANT SPACE	20	1						0.3	0.0		1	20	SPARE	18
19	FIRE SMOKE DAMPER	20	1		0.6	0.0						1	20	SPARE	20
21	SPARE	20	1				0.0	0.0				1	20	SPARE	22
23	SPARE	20	1						0.0	0.0		1	20	SPARE	24
25	SPARE	20	1		0.0	0.0						1	20	SPARE	26
27	SPARE	20	1				0.0	0.0				1	20	SPARE	28
29	SPARE	20	1						0.0	0.0		1	20	SPARE	30
31	SPARE	20	1		0.0	0.0						1	20	SPARE	32
33	SPARE	20	1				0.0	0.0				1	20	SPARE	34
35	SPARE	20	1						0.0	0.0		1	20	SPARE	36
37	SPARE	20	1		0.0	0.0						1	20	SPARE	38
39	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	40
41	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	42
43	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	44
45	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	46
47	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	48
49	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	50
51	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

100/3 BREAKERS FOR FUTURE TENANTS TO INCLUDE THE SUBMETERING SYSTEM CT'S AND OTHER NECESSARY COMPONENTS. SEE SPEC SECTION 260913

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA
HVAC	0.60	100.00%	0.60
Heating	4.50	100.00%	4.50
LTG	0.85	125.00%	1.06
NON-CONT MOTORS	2.00	125.00%	2.50
RCPT	3.74	100.00%	3.74

CONNECTED KVA 11.7
DEMAND KVA 12.4
DEMAND AMPS **34.4**

PHASE A CONNECTED AMPS 48.1
PHASE B CONNECTED AMPS 25.1
PHASE C CONNECTED AMPS 35.3

PANELBOARD SCHEDULE — 2H

VOLTAGE	480/277 Wye	**AMPS**	600	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MLO	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	65K	**FED FROM**	MSB	

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	T2L	175	3		2.5	0.0						3	20	1H	2
3							1.4	0.0							4
5									2.1	0.0					6
7	FPB 2-2-1	15	3	15N	2.9	2.9					15N	3	15	FPB 2-2-2	8
9							2.9	2.9							10
11									2.9	2.9					12
13	FPB 2-2-4	15	3	15N	2.9	2.9					15N	3	15	FPB 2-2-3	14
15							2.9	2.9							16
17									2.9	2.9					18
19	VAV1-2-1, VAV1-2-2	20	1		0.4										20
21	VAV 1-2-3	15	1				1.2	0.9				1	20	LTG: EMERGENCY	22
23															24
25						2.6					15N	1	15	FPB 1-2-3	26
27								2.9			15N	3	15	FPB 1-2-2	28
29										2.9					30
31	SPARE	20	1		0.0	2.9									32
33	SPARE	20	1				0.0	2.9			15N	3	15	FPB 1-2-2	34
35	SPARE	20	1						0.0	2.9					36
37	SPARE	20	1		0.0	2.9									38
39	SPARE	20	1				0.0	0.0			--	--	--	SPACE	40
41	SPARE	20	1						0.0	0.0	--	--	--	SPACE	42
43	SPARE	20	1		0.0	0.0					--	--	--	SPACE	44
45	SPARE	20	1				0.0	0.0			--	--	--	SPACE	46
47	SPARE	20	1						0.0	0.0	--	--	--	SPACE	48
49	SPARE	20	1		0.0	0.0					--	--	--	SPACE	50
51	SPARE	20	1				0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

PROVIDE FEED-THROUGH LUGS

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA
HVAC	58.60	100.00%	58.60
LTG	1.74	125.00%	2.18
RCPT	3.56	100.00%	3.56

CONNECTED KVA 63.9
DEMAND KVA 64.3
DEMAND AMPS **77.4**

PHASE A CONNECTED AMPS 84.0
PHASE B CONNECTED AMPS 77.1
PHASE C CONNECTED AMPS 71.2

PANELBOARD SCHEDULE — 2LB

VOLTAGE	120/208 Wye	**AMPS**	250	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MCB	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	10K	**FED FROM**		

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	2
3	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	4
5	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	6
7	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	8
9	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	10
11	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	12
13	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	14
15	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	16
17	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	18
19	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	20
21	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	22
23	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	24
25	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	26
27	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	28
29	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	30
31	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	32
33	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	34
35	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	36
37	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	38
39	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	40
41	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	42
43	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	44
45	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	46
47	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	48
49	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	50
51	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA

CONNECTED KVA 0.0
DEMAND KVA 0.0
DEMAND AMPS **0.0**

PHASE A CONNECTED AMPS 0.0
PHASE B CONNECTED AMPS 0.0
PHASE C CONNECTED AMPS 0.0

PMC POWER MANAGEMENT CORPORATION
Consulting Engineers
60 MUSIC SQUARE EAST, STE 300
NASHVILLE, TN 37203
www.powermgmt.com
615.383.6949

PROJECT #: 16066
DESIGNER: JMG ENGINEER: JHA

HEREFORD · DOOLEY
ARCHITECTS
1720 WEST END AVE · SUITE 300
NASHVILLE · TENNESSEE · 37203
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WWW.HDARCHITECTS.COM

PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS: CONSTRUCTION DOCUMENTS

STATE OF MISSOURI
JUDSON H. ADAMS
NUMBER PE-2007009103
2-15-19
PROFESSIONAL ENGINEER

ENGINEER OF RECORD

DATES OF ISSUANCE: 02/15/19

TITLE: PANELBOARD - SCHEDULES

SHEET: E003

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PANELBOARD SCHEDULE 3H

VOLTAGE	480/277 Wye	**AMPS**	600	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MLO	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	65K	**FED FROM**	MSB	

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	TL3	175	3		3.1	0.4						1	20	VAV 1-3-1, 1-3-2	2
3							3.8								4
5									2.3						6
7	FPB 2-3-1	15	3	15N	2.9	2.9					15N	3	15	FPB 2-3-2	8
9							2.9	2.9							10
11									2.9	2.9					12
13	FPB 2-3-3	15	3	15N	2.9	2.9					15N	3	15	FPB 2-3-4	14
15							2.9	2.9							16
17									2.9	2.9					18
19						0.7						1	20	LTG: CORRIDOR/REST...	20
21								0.3				1	20	LTG: EMERGENCY	22
23															24
25	FPB 1-3-3	15	1	15N	2.6	1.0						1	20	LTG: ELEV CAB	26
27	FPB 1-3-2	15	3	15N			2.9	1.2				1	15	VAV 1-3-3	28
29									2.9	1.0		1	20	LTG: ELEV CAB	30
31					2.9	2.9					15N	3	15	FPB 1-3-1	32
33								2.9							34
35										2.9					36
37						5.0					30	3	30	ELEVATOR	38
39	SHUNT TRIP SPACE	20	1				0.0	5.0							40
41	ELEVATOR	30	3	30					5.0	5.0					42
43					5.0	0.0						1	20	SHUNT TRIP SPACE	44
45							5.0	0.0			--	--	--	SPACE	46
47	SHUNT TRIP SPACE	20	1						0.0	0.0	--	--	--	SPACE	48
49	SPARE	20	1		0.0	0.0					--	--	--	SPACE	50
51	SPARE	20	1				0.0	0.0			--	--	--	SPACE	52
53	SPARE	20	1						0.0	0.0	--	--	--	SPACE	54
55	SPARE	20	1		0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

PROVIDE FEED-THROUGH LUGS

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA
Elevator	32.00	85.00%	27.20
HVAC	61.90	100.00%	61.90
LTG	1.75	125.00%	2.19
RCPT	3.38	100.00%	3.38

CONNECTED KVA	99.0
DEMAND KVA	94.7
DEMAND AMPS	**113.9**
PHASE A CONNECTED AMPS	128.4
PHASE B CONNECTED AMPS	119.7
PHASE C CONNECTED AMPS	111.6

PANELBOARD SCHEDULE 3LB

VOLTAGE	120/208 Wye	**AMPS**	250	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MCB	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	10K	**FED FROM**		

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	2
3	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	4
5	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	6
7	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	8
9	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	10
11	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	12
13	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	14
15	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	16
17	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	18
19	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	20
21	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	22
23	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	24
25	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	26
27	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	28
29	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	30
31	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	32
33	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	34
35	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	36
37	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	38
39	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	40
41	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	42
43	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	44
45	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	46
47	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	48
49	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	50
51	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

100/3 BREAKERS FOR FUTURE TENANTS TO INCLUDE THE SUBMETERING SYSTEM CT'S AND OTHER NECESSARY COMPONENTS.
SEE SPEC SECTION 260913

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA

CONNECTED KVA	0.0
DEMAND KVA	0.0
DEMAND AMPS	**0.0**
PHASE A CONNECTED AMPS	0.0
PHASE B CONNECTED AMPS	0.0
PHASE C CONNECTED AMPS	0.0

PANELBOARD SCHEDULE 3LA

VOLTAGE	120/208 Wye	**AMPS**	250	**MOUNTING**	SURFACE	NOTES:
PHASE	3	**MAIN**	MCB	**ENCLOSURE**	TYPE 1	*CIRCUITS ARE (2)#12, (1)#12 GND IN 1/2" COND, UON. SEE CIRCUIT SCHEDULE
WIRE	4	**MIN AIC**	10K	**FED FROM**	T3L	

CIR#	DESCRIPTION	TRIP	POLES	CKT*	A		B		C		CKT*	POLES	TRIP	DESCRIPTION	CIR#
1	RCPT: CORRIDOR	20	1		1.1	0.5						1	20	RCPT: EWC	2
3	RCPT:...	20	1				0.9	0.4				1	20	RCPT: TBB	4
5	LTG: TENANT SPACE	20	1						0.5	0.3		1	20	LTG: TENANT SPACE	6
7	RCPT: TOP OF...	20	1		0.2	0.9						3	20	EF-1	8
9	EF-2	20	1				1.6	0.9							10
11	FIRE SMOKE DAMPERS	20	1						0.6	0.9					12
13	CONTROL DAMPERS	20	1		0.3	0.0						1	20	SPARE	14
15	SPARE	20	1				0.0	0.0				1	20	SPARE	16
17	SPARE	20	1						0.0	0.0		1	20	SPARE	18
19	SPARE	20	1		0.0	0.0						1	20	SPARE	20
21	SPARE	20	1				0.0	0.0			--	--	--	SPACE	22
23	SPARE	20	1						0.0	0.0	--	--	--	SPACE	24
25	SPARE	20	1		0.0	0.0					--	--	--	SPACE	26
27	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	28
29	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	30
31	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	32
33	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	34
35	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	36
37	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	38
39	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	40
41	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	42
43	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	44
45	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	46
47	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	48
49	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	50
51	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	52
53	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	54
55	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	56
57	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	58
59	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	60
61	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	62
63	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	64
65	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	66
67	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	68
69	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	70
71	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	72
73	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	74
75	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	76
77	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	78
79	SPACE	--	--	--	0.0	0.0					--	--	--	SPACE	80
81	SPACE	--	--	--			0.0	0.0			--	--	--	SPACE	82
83	SPACE	--	--	--					0.0	0.0	--	--	--	SPACE	84

100/3 BREAKERS FOR FUTURE TENANTS TO INCLUDE THE SUBMETERING SYSTEM CT'S AND OTHER NECESSARY COMPONENTS.
SEE SPEC SECTION 260913

LOAD TYPE	CNNT KVA	ADJ FACTOR	DMD KVA
HVAC	5.30	100.00%	5.30
LTG	0.83	125.00%	1.04
RCPT	3.02	100.00%	3.02

CONNECTED KVA	9.2
DEMAND KVA	9.4
DEMAND AMPS	**26.0**
PHASE A CONNECTED AMPS	26.4
PHASE B CONNECTED AMPS	32.6
PHASE C CONNECTED AMPS	19.2

PMC POWER MANAGEMENT CORPORATION
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DESIGNER: JMG ENGINEER: JHA

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
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STATUS
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DATES OF ISSUANCE
02/15/19

TITLE
PANELBOARD - SCHEDULES

SHEET
E004

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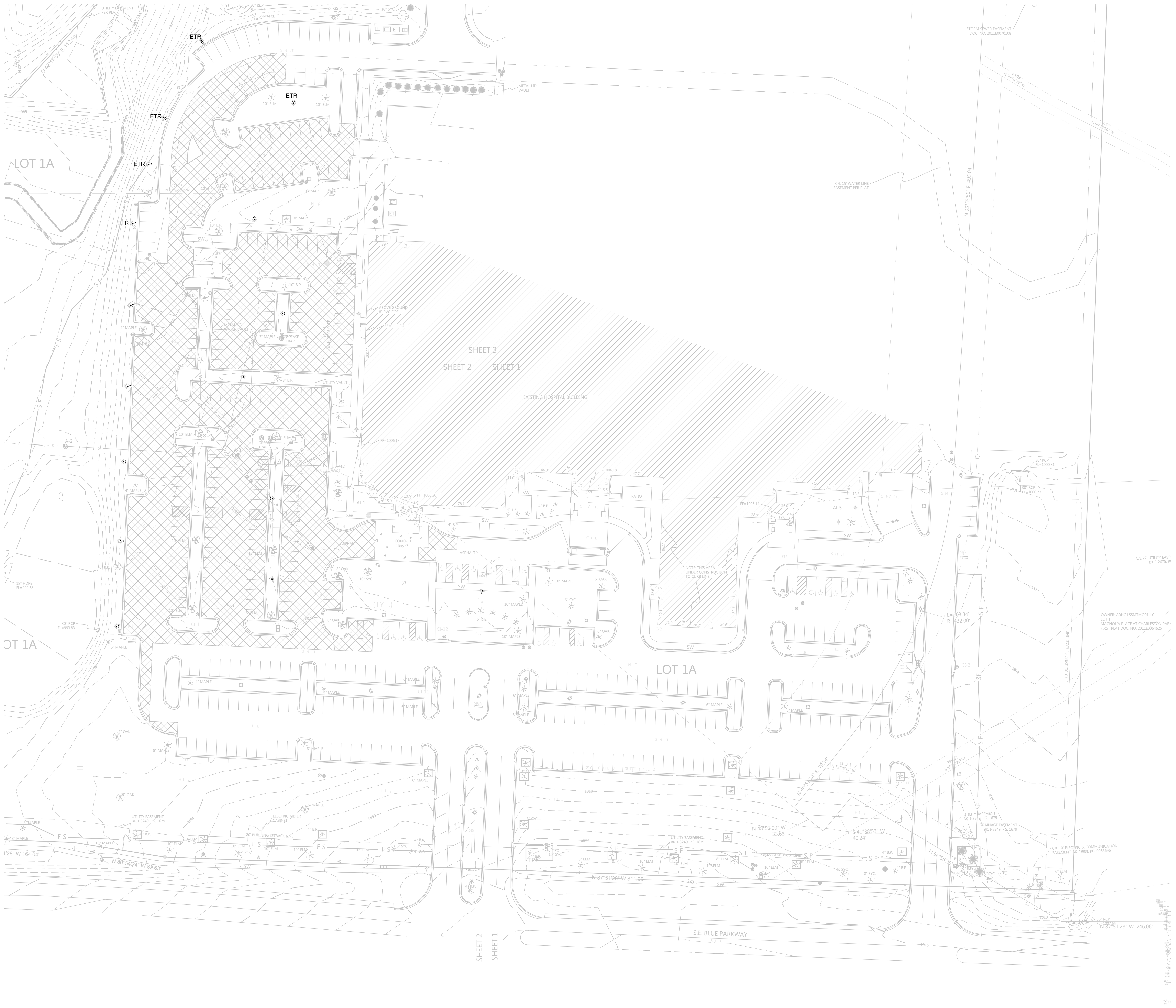
615.383.6949

PROJECT #: 16066
DESIGNER: JMG ENGINEER: JHA

GENERAL NOTES

1. FIXTURES SHOWN TO BE REMOVED SHALL BE RELOCATED AND REUSED IN ACCORDANCE WITH NEW WORK SITE PLAN.



1 SITE PLAN DEMO - ELECTRICAL
SCALE: 1" = 40'-0"

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PROJECT #
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LEE'S SUMMIT M.O.B.
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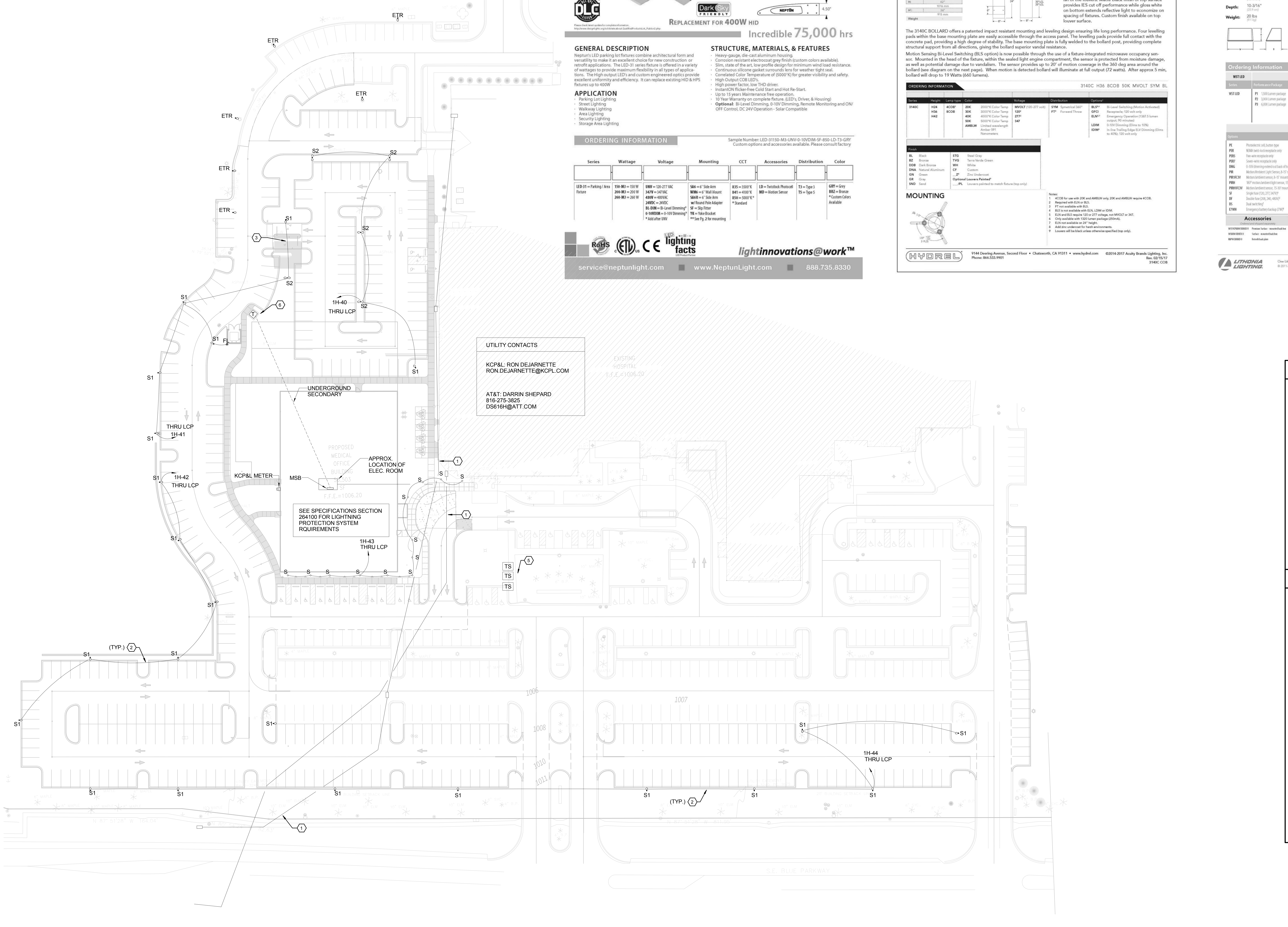
02/15/19

DATES OF ISSUANCE

TITLE
SITE PLAN DEMO - ELECTRICAL

SHEET
E005



UTILITY CONTACTS

KCP&L: RON DEJARNETTE
RON.DEJARNETTE@KCPL.COM

AT&T: DARRIN SHEPARD
816-275-3825
DS616H@ATT.COM

SEE SPECIFICATIONS SECTION 264100 FOR LIGHTNING PROTECTION SYSTEM RQUIREMENTS

1 SITE PLAN NEW - ELECTRICAL
SCALE: 1" = 40'-0"

NEPTUN LIGHT

LED
MODULAR PARKING LOT FIXTURES
M3

18.00"
18.00"
4.50"

DLC QPL LISTED

Please check latest update for complete information.
http://www.designlights.org/solidstate.about.QualifiedProductsList_Publicv2.php

Dark Sky FRIENDLY

REPLACEMENT FOR 400W HID

Incredible 75,000 hrs

GENERAL DESCRIPTION

Neptun's LED parking lot fixtures combine architectural form and versatility to make it an excellent choice for new construction or retrofit applications. The LED-31 series fixture is offered in a variety of wattages to provide maximum flexibility in all types of applications. The High output LED's and custom engineered optics provide excellent uniformity and efficiency. It can replace existing HID & HPS fixtures up to 400W

APPLICATION

- Parking Lot Lighting
- Street Lighting
- Walkway Lighting
- Area Lighting
- Security Lighting
- Storage Area Lighting

STRUCTURE, MATERIALS, & FEATURES

- Heavy-gauge, die-cast aluminum housing.
- Corrosion resistant electrocoat grey finish (custom colors available).
- Slim, state of the art, low profile design for minimum wind load resistance.
- Continuous silicone gasket surrounds lens for weather tight seal.
- Correlated Color Temperature of (5000°K) for greater visibility and safety.
- High Output COB LED's.
- High power factor, low THD driver.
- InstantON flicker-free Cold Start and Hot Re-Start.
- Up to 15 years Maintenance free operation.
- 10 Year Warranty on complete fixture. (LED's, Driver, & Housing)
- **Optional**: Bi-Level Dimming, 0-10V Dimming, Remote Monitoring and ON/OFF Control, DC 24V Operation - Solar Compatible

ORDERING INFORMATION

Sample Number: LED-31150-M3-UNV-0-10VDIM-SF-850-LD-T3-GRY
Custom options and accessories available. Please consult factory

Series	Wattage	Voltage	Mounting	CCT	Accessories	Distribution	Color
LED-31 = Parking / Area Fixture	**150-M3** = 150 W **200-M3** = 200 W **260-M3** = 260 W	**UNV** = 120-277 VAC **347V** = 347VAC **480V** = 480VAC **24VDC** = 24VDC **BL-DIM** = Bi-Level Dimming* **0-10VDIM** = 0-10V Dimming* * Add after UNV	**SA6** = 6" Side Arm **WM6** = 6" Wall Mount **SA6R** = 6" Side Arm w/ Round Pole Adapter **SF** = Slip Fitter **YK** = Yoke Bracket ** See Pg. 2 for mounting	**835** = 3500°K **841** = 4100°K **850** = 5000°K * * Standard	**LD** = Twistlock Photocell **MD** = Motion Sensor	**T3** = Type 3 **T5** = Type 5	**GRY** = Grey **BRZ** = Bronze * Custom Colors Available

RoHS COMPLIANT ETL LISTED CE LED lighting facts LED Product Partner

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service@neptunlight.com ■ www.NeptunLight.com ■ 888.735.8330

3140C LED
IMPACT RESISTANT
SQUARE BOLLARD
FLAT TOP

LED *IP65*

CATALOG NUMBER	
NOTES	
TYPE	

Specifications

EPA:	-
Dia:	9" 229 mm
Dia²:	8" 204 mm
H:	42" 1016 mm
H²:	36" 915 mm
Weight	-

Front
Side
40"
34"
24"
36" LCL
30" LCL
20" LCL
6"
8"
8"

DESCRIPTION

The 3140C BOLLARD is a low level area lighting luminaire that combines visual appeal with superior performance and unequalled quality. It is designed to work in building perimeter areas and public spaces completing a wide variety of architectural styles.

Superior performance extends to the detailed finish of the louvers. Matte black finish of top surface provides IES cut off performance while gloss white on bottom extends reflective light to economize on spacing of fixtures. Custom finish available on top louver surface.

The 3140C BOLLARD offers a patented impact resistant mounting and leveling design ensuring life long performance. Four levelling pads within the base mounting plate are easily accessible through the access panel. The levelling pads provide full contact with the concrete pad, providing a high degree of stability. The base mounting plate is fully welded to the bollard post, providing complete structural support from all directions, giving the bollard superior vandal resistance.

Motion Sensing Bi-Level Switching (BLS option) is now possible through the use of a fixture-integrated microwave occupancy sensor. Mounted in the head of the fixture, within the sealed light engine compartment, the sensor is protected from moisture damage, as well as potential damage due to vandalism. The sensor provides up to 20' of motion coverage in the 360 deg area around the bollard (see diagram on the next page). When motion is detected bollard will illuminate at full output (72 watts). After approx 5 min, bollard will drop to 19 Watts (660 lumens).

ORDERING INFORMATION

3140C H36 8COB 50K MVOLT SYM BL

Series	Height	Lamp type	Color	Voltage	Distribution	Options[4]
3140C	H24 H36 H42	4COB[1] 8COB	20K 2000°K Color Temp 30K 3000°K Color Temp 40K 4000°K Color Temp 50K 5000°K Color Temp AMBLW Limited wavelength Amber 591 Nanometers	MVOLT (120-277 volt) 120[2] 277[2] 347	SYM Symetrical 360° FT[3] Forward Throw	BLS[5,6] Bi-Level Switching (Motion Activated) GFCI Receptacle; 120 volt only ELN[5,7] Emergency Operation (1387.5 lumen output; 90 minutes) LDIM 0-10V Dimming (Dims to 10%) IDIM[6] In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only

Finish			
BL	Black	STG	Steel Gray
BZ	Bronze	TVG	Terra Verde Green
DDB	Dark Bronze	WH	White
DNA	Natural Aluminum	CF	Custom
GN	Green	__Z[8]	Zinc Undercoat
GR	Gray	**Optional Louvers Painted**[9]	
SND	Sand	___/PL	Louvers painted to match fixture (top only)

MOUNTING

Ø4 1/2"
120° +10° -10°
3 PLCS

Notes:
1 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
2 Required with ELN or BLS.
3 FT not available with BLS.
4 BLS is not available with ELN, LDIM or IDIM.
5 ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
6 Only available with 1320 lumen package (250mA).
7 ELN not available on 24" height.
8 Add zinc undercoat for harsh environments.
9 Louvers will be black unless otherwise specified (top only).

HYDREL

9144 Deering Avenue, Second Floor • Chatsworth, CA 91311 • www.hydrel.com
Phone: 866.533.9901

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Rev. 02/15/17
3140C COB

WST LED
Architectural Wall Sconce

DLC PREMIUM NIGHTTIME FRIENDLY

Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements

Specifications
Luminaire

Height:	8-1/2" (21.59 cm)
Width:	17" (43.18 cm)
Depth:	10-3/16" (25.9 cm)
Weight:	20 lbs (9.1 kg)

Optional Back Box (BBW)

Height:	4" (10.2 cm)
Width:	5-1/2" (14.0 cm)
Depth:	1-1/2" (3.8 cm)

FOR 3/4" NPT SIDE-ENTRY
FOR 1/4" MOUNTING BOLTS
3.0
4.45
H
W
D

Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixilated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED						
Series	Performance Package	Color temperature	Distribution	Voltage		Mounting
WST LED	P1 1,500 Lumen package P2 3,000 Lumen package P3 6,000 Lumen package	27K 2700 K 30K 3000 K 40K 4000 K 50K 5000 K	VF Visual comfort forward throw VW Visual comfort wide	MVOLT[1] 120[1] 208[1] 240[1]	277[1] 347 480	**Shipped included** (blank) Surface mounting bracket **Shipped separately** BBW Surface-mounted back box[2] PBBW Premium surface-mounted back box[2,3]

Options				Finish *(required)*	
PE	Photoelectric cell, button type	E7WC	Emergency battery backup (cold, 7W)[8,9]	DDBXD	Dark bronze
PER	NEMA twist-lock receptacle only	E7WHR	Remote emergency battery backup (remote 7W)[8,10]	DBLXD	Black
PER5	Five-wire receptacle only	E20WH	Emergency battery backup (20W)[8,11]	DNAXD	Natural aluminum
PER7	Seven-wire receptacle only	E20WC	Emergency battery backup (cold, 20W)[8,9,11]	DWHXD	White
DMG	0-10V dimming extend out back of honsing for external control (no control)[4]	E23WHR	Remote emergency battery backup (remote 20W)[8,10]	DSSXD	Sandstone
PIR	Motion/Ambient Light Sensor, 8-15' mounting height[5]	LCE	Left side conduit entry[12]	DDBTXD	Textured dark bronze
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[5]	RCE	Right side conduit entry[12]	DBLBXD	Textured black
PIRH	180° motion/ambient light sensor, 15-30' mounting height[5]			DNATXD	Textured natural aluminum
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[5]	**Shipped separately**		DWHGXD	Textured white
SF	Single fuse (120, 277, 347V)[6]	RBPW	Retrofit back plate[2]	DSSTXD	Textured sandstone
DF	Double fuse (208, 240, 480V)[6]	VG	Vandal guard[13]		
DS	Dual switching[7]	WG	Wire guard[13]		
E7WH	Emergency battery backup (7W)[8]				

Accessories
Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTX U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate

NOTES
1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only. when ordering with button type photocell (PE), fusing (SF, DF), or dual switching (DS).
2 Also available as a separate accessory; see accessories information.
3 Top conduit entry standard.
4 Not available with E7WH, E7WC, E7WHR, E20WC, E20WH, or E23WHR. Not available with PER5 & PER7.
5 Not available with PE, PER, PER5, PER7, VG or WG.
6 Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
7 Not available with E7WH, E7WC, E7WHR, E20WC, E20WH, or E23WHR. Used with inverter system. Not available with 347/480V. Not available with PE, PER, PER5 & PER7.
8 Not available with 347/480V.
9 Battery pack rated for -20° to 40°C.
10 Comes with PBBW.
11 Warranty period is 3-years.
12 Not available with BBW.
13 Must order with fixture; not an accessory.

LITHONIA LIGHTING.

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com
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WST-LED
Rev. 05/16/17

GENERAL NOTES

1. CONTRACT DOCUMENT DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
2. COORDINATE CONSTRUCTION OF ALL ELECTRICAL WORK WITH MECHANICAL, ARCHITECTURAL, STRUCTURAL, AND OTHER DISCIPLINES PRIOR TO CONSTRUCTION.
3. PROVIDE ALL MATERIALS AND EQUIPMENT, UNLESS OTHERWISE NOTED, AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE ELECTRICAL AND LIGHTING SYSTEMS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, SPECIFICATIONS, AND APPLICABLE CODES AND REGULATIONS.

KEY NOTES

1. APPROIMATE LOCATION OF UNDERGROUND FIBER OPTIC CABLE LINE. REFER TO SITE SURVEY. RELOCATE THE FIBER LINE WHERE IT CONFLICTS WITH NEW CONSTRUCTION. COORDINATE THE RELOCATION WITH THE OWNER.
2. ALL SITE LIGHTING CONDUCTORS ARE TO BE #10 AWG.
3. THE PARKING GATES ARE TO BE RELOCATED AND REUSED. MODIFY AND EXTEND THE EXISTING POWER AND CONTROL CIRCUITS.
4. SECONDARY CONDUIT TO THE MSB. SEE RISER.
5. PROVIDE (3) TAMPER SWITCHES. COORDINATE WITH CIVIL PLANS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
6. KCP&L TRANSFORMER LOCATION

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PROJECT #: 16066
DESIGNER: JMG ENGINEER: JHA

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PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063

Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

JUDSON H. ADAMS
NUMBER PE-2007009103
2-15-19
ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE SITE PLAN NEW - ELECTRICAL

SHEET E006

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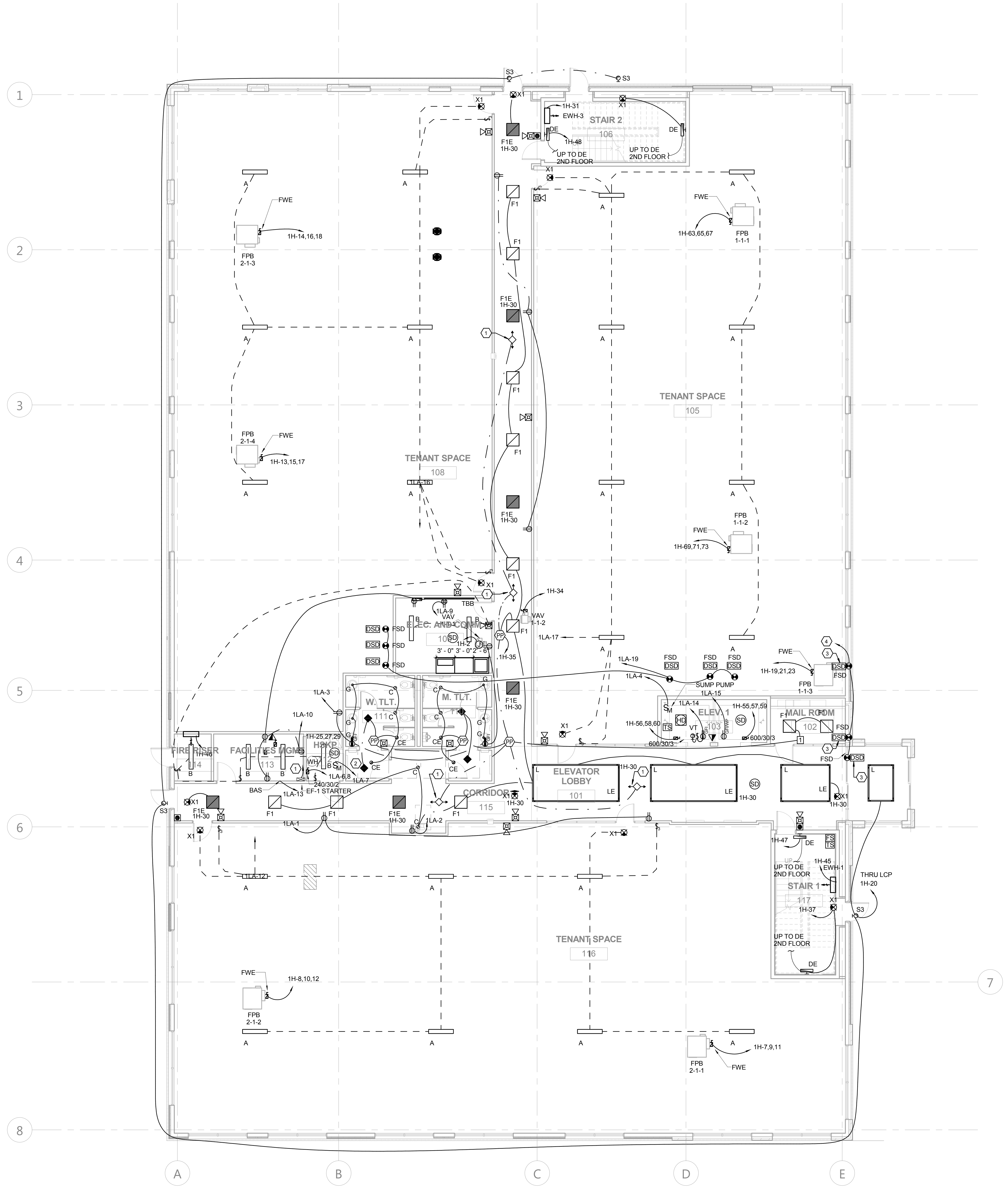
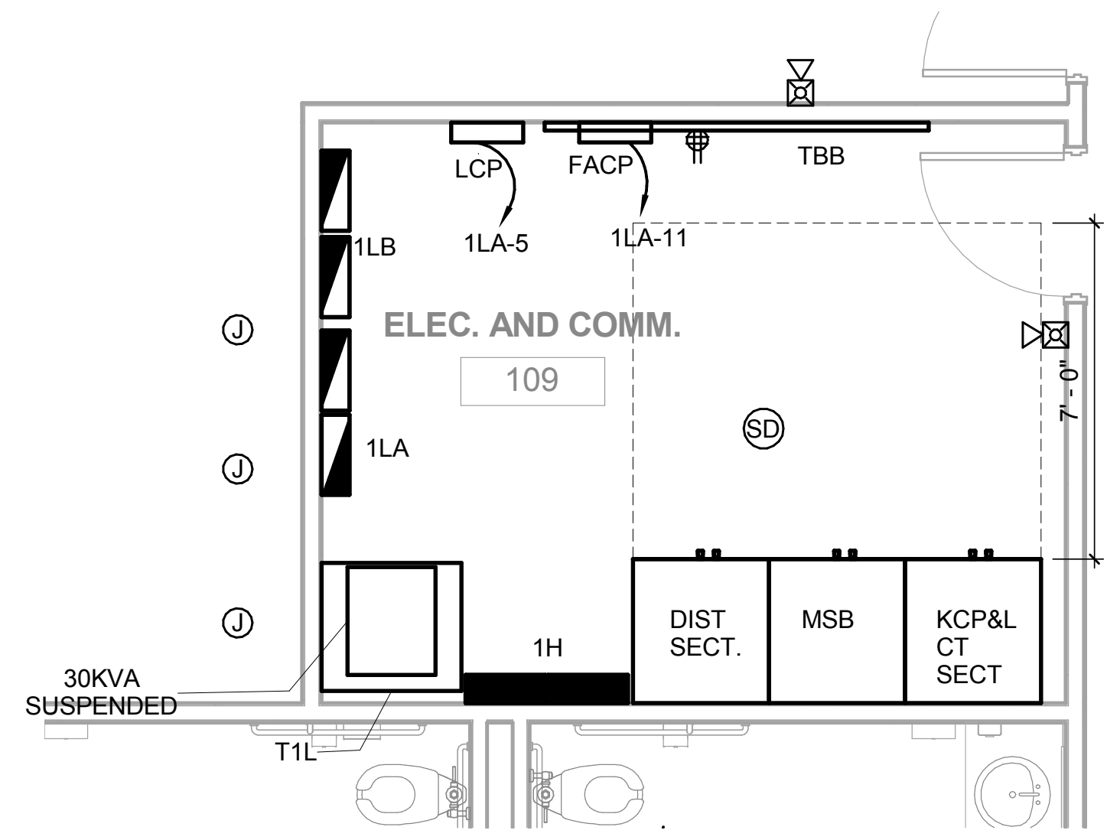


1 FIRST FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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4. CONNECT ALL EXIT SIGNS, EMERGENCY EGRESS FIXTURES, AND FULLY HATCHED (NIGHT LIGHT) FIXTURES TO THE EMERGENCY LIGHTING CIRCUIT INDICATED. PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER. THIS CIRCUIT SHALL NOT BE ROUTED THROUGH THE LIGHTING CONTROL PANEL.

⟨#⟩ KEY NOTES

1. INTERCONNECT ALL OCC SENSORS IN THE LOBBY OR CORRIDORS AND SET TIME DELAY AT 20 MINUTES.
2. FURNISH AND INSTALL A CIRCUIT BREAKER COMBINATION STARTER FOR EACH OF THREE EXHAUST FANS. STARTER TO HAVE A 120V CONTROL TRANSFORMER AND RUN PILOT LIGHT.
3. PROVIDE A PHOTOELECTRIC TYPE DUCT SMOKE DETECTOR, CONNECTED TO THE EXISTING BUILDING FIRE ALARM SYSTEM. THE DUCT DETECTOR SHALL BE INSTALLED IN THE DUCT USING THE HOUSING THAT WILL SENSE SMOKE WITH ZERO AIR FLOW. WHEN SMOKE IS SENSED AT DUCT SMOKE DETECTOR, THE RELAY SHALL OPEN AND CAUSE THE ASSOICATED SMOKE DAMPERS TO CLOSE.
4. PROVIDE 120-VOLT POWER FROM NEAREST LIFE SAFETY BRANCH CIRCUIT.
5. CONNECT EMERGENCY LIGHTING EQUIPMENT TO LINE SIDE OF CIRCUIT SWITCHES SUCH THAT EMERGENCY OPERATION BEGINS AUTOMATICALLY UPON LOSS OF POWER, BUT NOT WHEN THE SWITCH IS TURNED OFF

PARTITION FIRE RATING LEGEND

- SMOKE PARTITION
- 1-HR FIRE BARRIER
- 1-HR FIRE/SMOKE BARRIER
- 2-HR FIRE BARRIER
- 2-HR FIRE/SMOKE BARRIER
- NON-RATED INTERIOR PARTITION

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2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS CONSTRUCTION DOCUMENTS

JUDSON H ADAMS
NUMBER PE-2007009103
2-15-19
ENGINEER OF RECORD

02/15/19

DATES OF ISSUANCE

TITLE FIRST FLOOR PLAN - ELECTRICAL ROOM

SHEET E101

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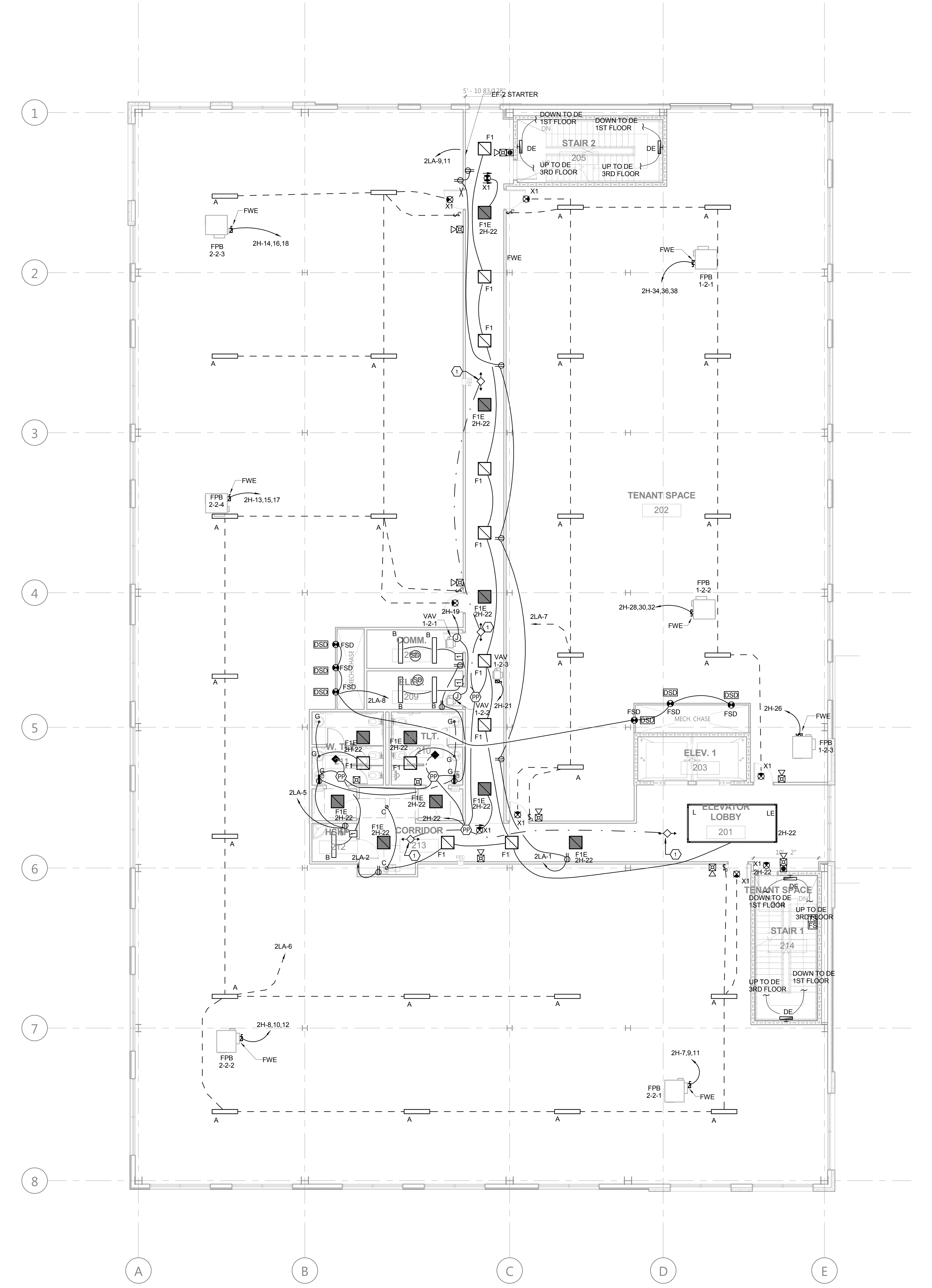

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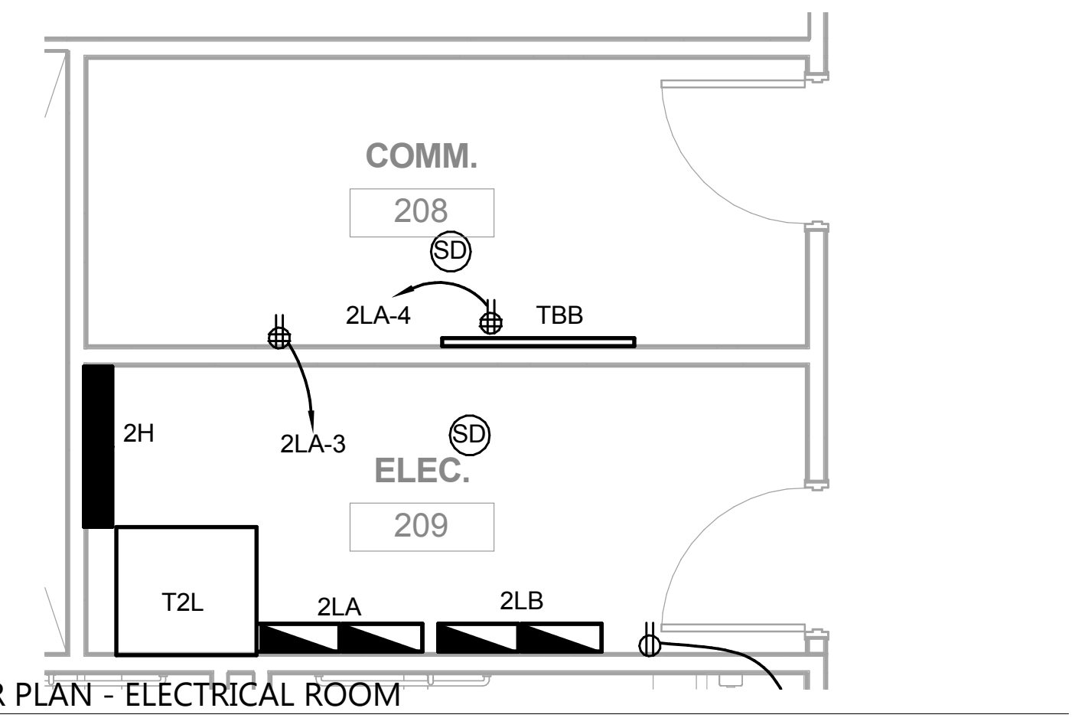
SCALE: 1/8" = 1'-0"



2 SECOND FLOOR PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

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4. CONNECT ALL EXIT SIGNS, EMERGENCY EGRESS FIXTURES, AND FULLY HATCHED (NIGHT LIGHT) FIXTURES TO THE EMERGENCY LIGHTING CIRCUIT INDICATED. PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER. THIS CIRCUIT SHALL NOT BE ROUTED THROUGH THE LIGHTING CONTROL PANEL.

## ⟨#⟩ KEY NOTES

1. INTERCONNECT ALL OCC SENSORS IN THE LOBBY OR CORRIDORS AND SET TIME DELAY AT 20 MINUTES.

PARTITION FIRE RATING LEGEND

- SMOKE PARTITION
- 1-HR FIRE BARRIER
- 1-HR FIRE/SMOKE BARRIER
- 2-HR FIRE BARRIER
- 2-HR FIRE/SMOKE BARRIER
- NON-RATED INTERIOR PARTITION

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STATUS
CONSTRUCTION DOCUMENTS

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NUMBER PE-2007009103
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DATES OF ISSUANCE
02/15/19

TITLE
SECOND FLOOR PLAN - LIGHTING

SHEET
E102

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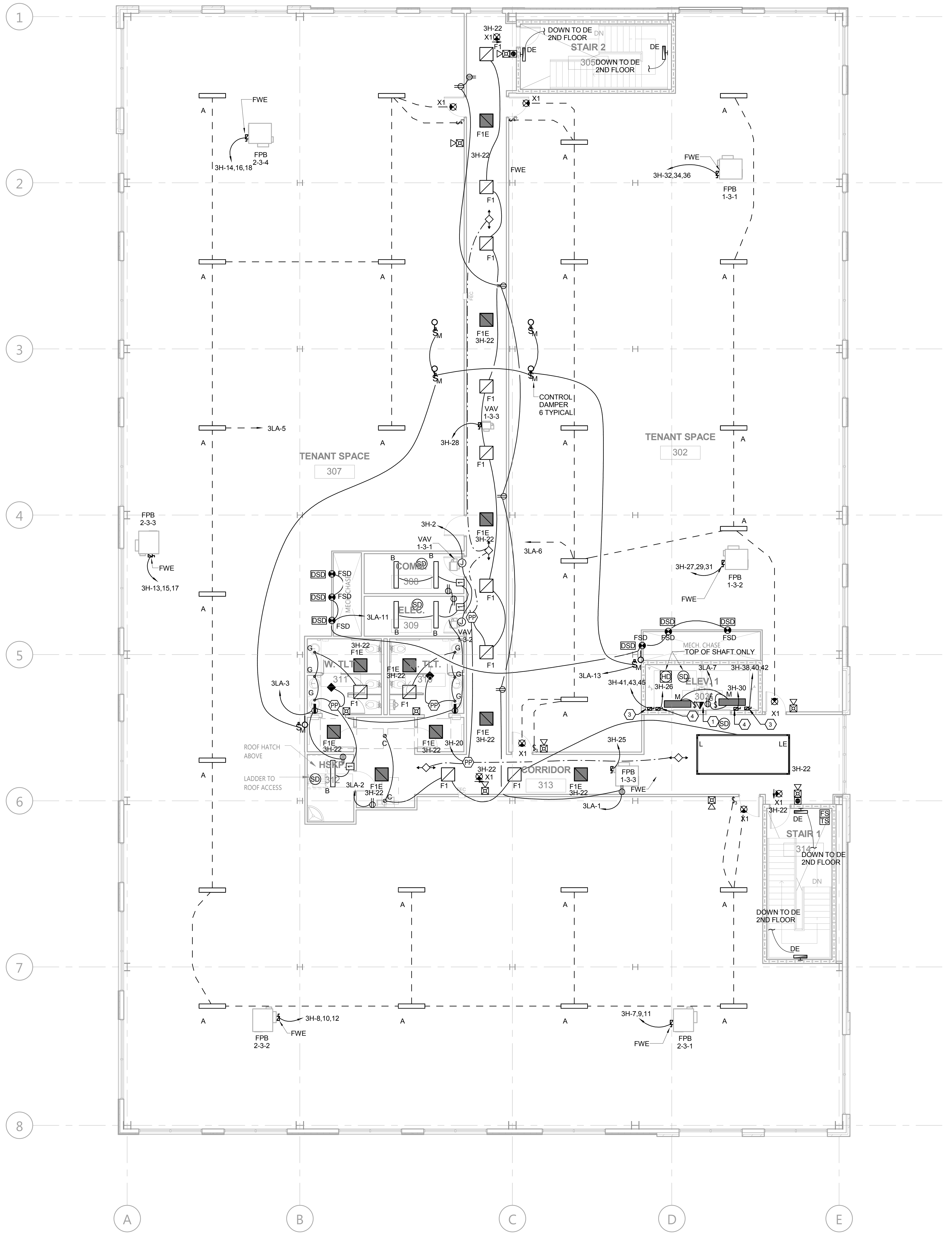
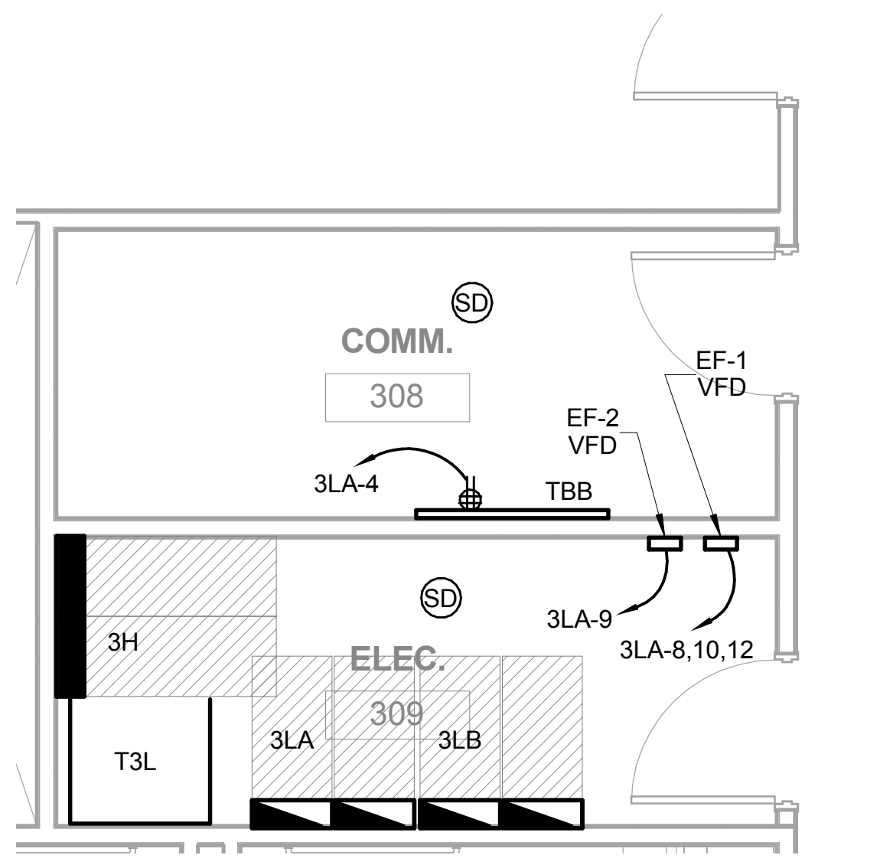


1 THIRD FLOOR ELECTRICAL
SCALE: 1/8" = 1'-0"



2 THIRD FLOOR ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

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4. CONNECT ALL EXIT SIGNS, EMERGENCY EGRESS FIXTURES, AND FULLY HATCHED (NIGHT LIGHT) FIXTURES TO THE EMERGENCY LIGHTING CIRCUIT INDICATED. PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER. THIS CIRCUIT SHALL NOT BE ROUTED THROUGH THE LIGHTING CONTROL PANEL.

## ⟨#⟩ KEY NOTES

1. INTERCONNECT ALL OCC SENSORS IN THE LOBBY OR CORRIDORS AND SET TIME DELAY AT 20 MINUTES.
2. PROVIDE A DEDICATED TELEPHONE ROUGH-IN TO IN BUILDING TBB.
3. PROVIDE A LOCKABLE SAFETY DISCONNECT FOR ELEVATOR. COORDINATE ACCEPTABLE DEVICE WITH LOCAL AHJ. DEVICE'S LOCKING MECHANISM SHALL NOT BE DEFEATABLE IN 'LOCKED POSITION'.
4. LOCKABLE FUSED DISCONNECT FOR ELEVATOR CAB LIGHTING.

PARTITION FIRE RATING LEGEND

- SMOKE PARTITION
- 1-HR FIRE BARRIER
- 1-HR FIRE/SMOKE BARRIER
- 2-HR FIRE BARRIER
- 2-HR FIRE/SMOKE BARRIER
- NON-RATED INTERIOR PARTITION

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STATUS
CONSTRUCTION DOCUMENTS

JUDSON H
PE-2007009103
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02/15/19

DATES OF ISSUANCE

TITLE
THIRD FLOOR PLAN - ELECTRICAL

SHEET
E103

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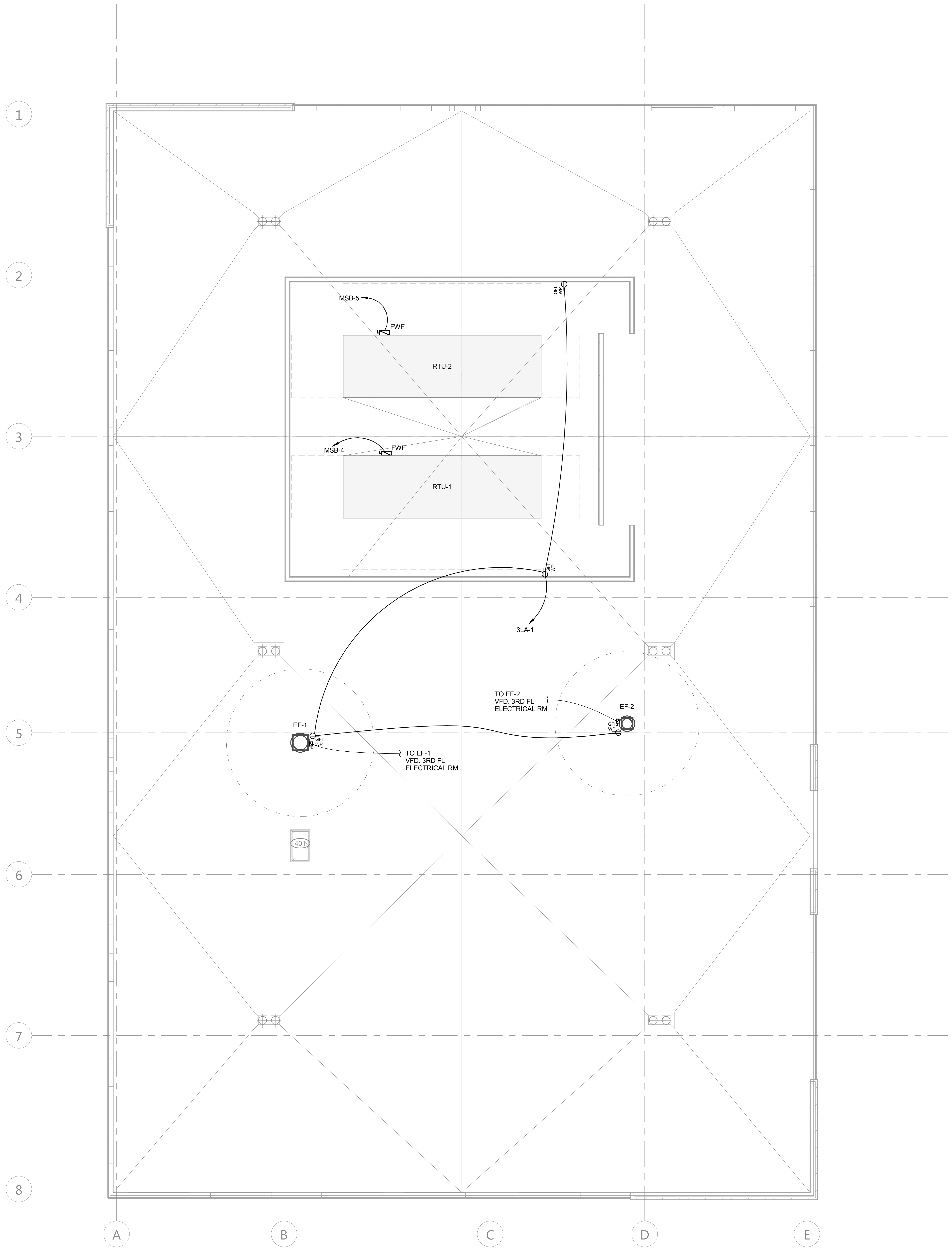

1 ROOF PLAN - HVAC
SCALE: 1/8" = 1'-0"

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JUDSON H. ADAMS
NUMBER
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02/15/19

DATES OF ISSUANCE

TITLE
ROOF PLAN - HVAC POWER

SHEET
E104

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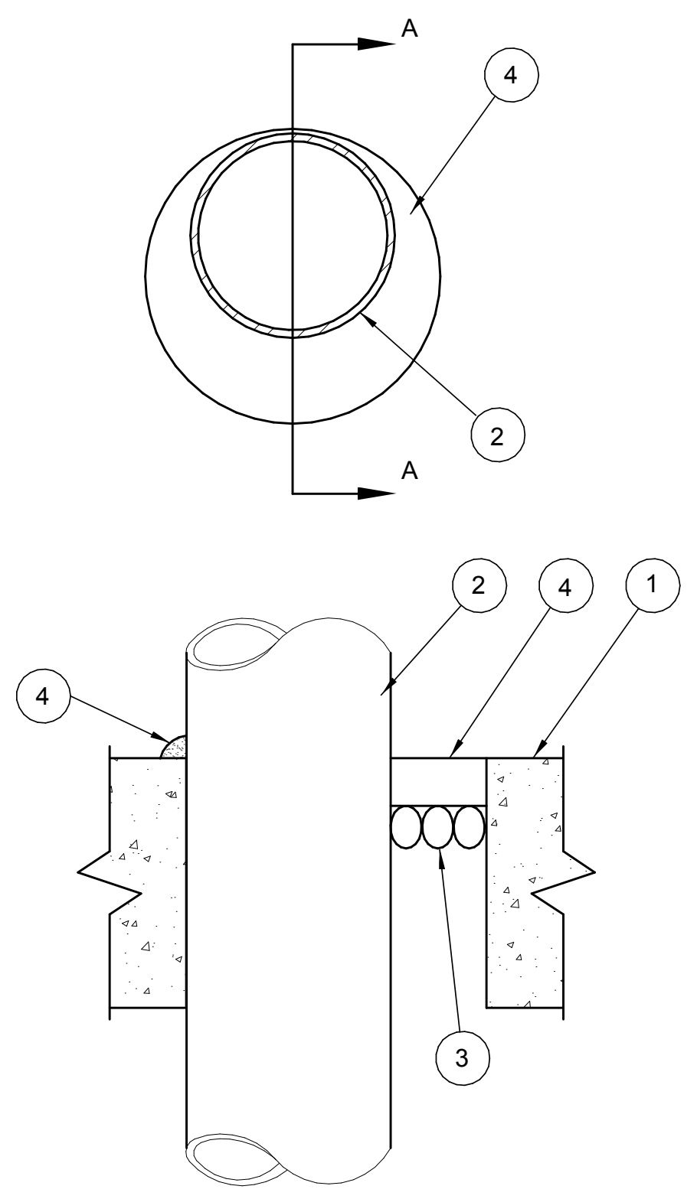
U.L. SYSTEM No. C-AJ-1044
MARCH 15, 2007
F RATINGS - 2, 3 AND 4 HR (SEE ITEMS 2A AND 4)
T RATING - 0 HR
L RATING AT AMBIENT - 2 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT
W RATING - CLASS 1 (SEE ITEM 4)



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M³) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN. THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 41/2". FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN. 6" THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS (BEARING THE UL CLASSIFICATION MARKING). WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCK (BEARING THE UL CLASSIFICATION MARKING). MAX DIAMETER OF OPENING IS IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR IS 32". MAX DIAMETER OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS IS 7". SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURES.

1A. STEEL SLEEVE (OPTIONAL, NOT SHOWN) - NOMINAL 16" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2" ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. AS AN ALTERNATE, NOMINAL 16" DIAMETER (OR SMALLER) MIN 0.028 THICK GALVANIZED SHEET STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY FLUSH WITH FLOOR OR WALL SURFACES.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAX ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0" (POINT CONTACT). MAX ANNULAR SPACE TO BE AS SHOWN IN THE TABLE IN ITEM 4. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
C. CONDUIT - NOM 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.
D. CONDUIT - NOM 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
E. COPPER TUBING- NOM 6" DIAMETER (OR SMALLER) TYPE 'L' (OR HEAVIER) COPPER TUBE.
F. COPPER PIPE - NOM 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1" THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

3A. FORMING MATERIAL - AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 3, NOM 4" WIDE STRIPS OF MIN 1/2" THICK COMPRESSIBLE MAT TO BE STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR TO A MIN 4" DEPTH. AS AN OPTION, THE STRIPS OF MIN 1/2" COMPRESSIBLE MAT MAY BE FOLDED IN HALF, LENGTHWISE, AND STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE FIRST, TO FILL THE ANNULAR SPACE TO A MIN 2" DEPTH. TOP OF FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.

4. FILL, VOID OR CAVITY MATERIAL (BEARING THE UL CLASSIFICATION MARKING) - CAULK SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4" DIAMETER BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MIN REQUIRED CAULK THICKNESS ARE DEPENDANT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

Min. Floor or Wall Thickness Inches	Nom Pipe Tube or Conduit Diam In.	Max Annular Space In.	Min Caulk Thickness Inches.	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a) MIN 2" THICKNESS OF MINERAL WOOL BATT INSULATION OR FORMING MATERIAL (ITEM 3A) REQUIRED IN ANNULAR SPACE.
(b) MIN 1" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN. 1" THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

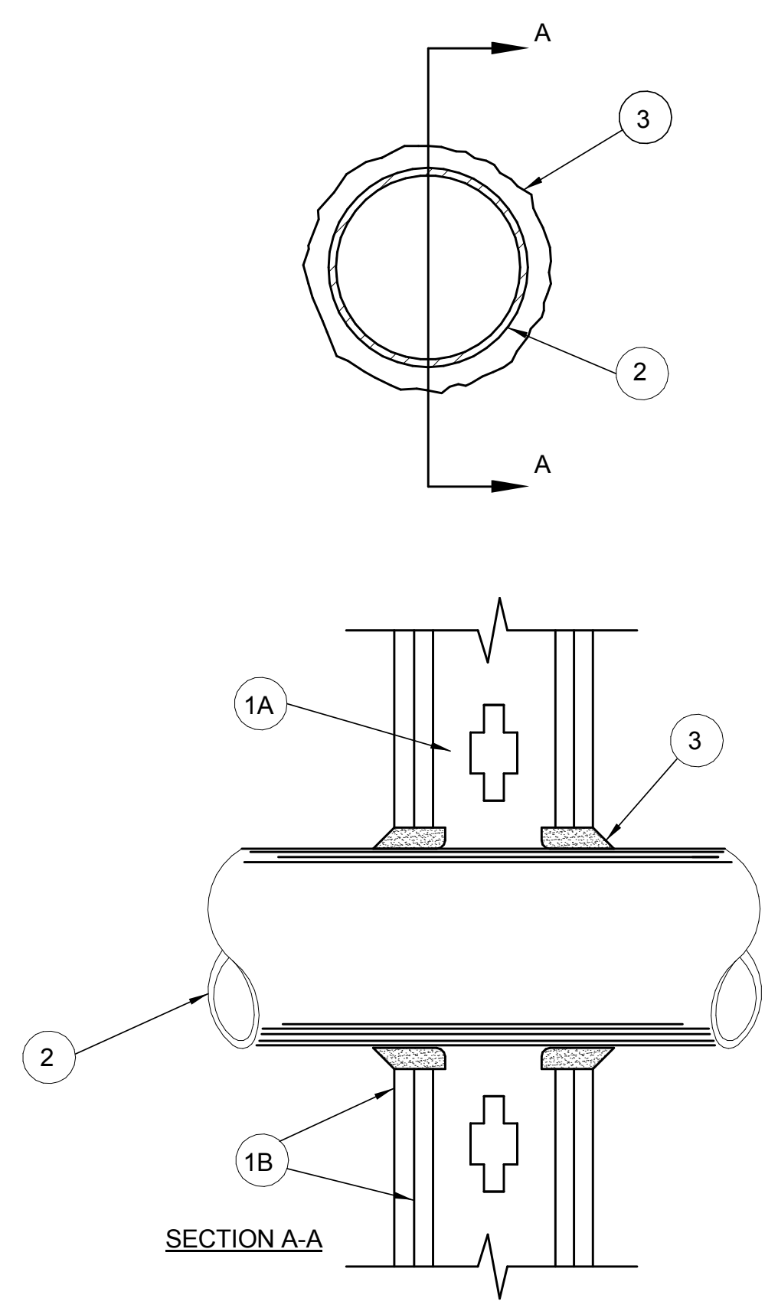
3M COMPANY- CP 25WB+ CAULK OR FB-3000 WT SEALANT. (NOTE: 'W' RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED.)

5

CONCRETE FLOOR/WALL ASSEMBLY PENETRATION FIRESTOP DETAIL

SCALE: NONE

U.L. SYSTEM No.W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3 AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2" BY 4". LUMBER SPACED 16" ON CENTER WITH NOM. 2" BY 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 35/8" WIDE BY 13/8" DEEP CHANNELS SPACED MAX. 24" ON CENTER.

B. GYPSUM BOARD (BEARING THE UL CLASSIFICATION MARKING) - NOM. 1/2" OR 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALL BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAMETER OF OPENING IS 26".

2. THROUGH PENETRATE - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN. OF 0" (POINT CONTACT) TO MAX. 2" PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM. 24" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM. 24" DIAMETER (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM. 12" DIAMETER (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
C. CONDUIT - NOM. 6" DIAMETER (OR SMALLER) STEEL CONDUIT OR NOM. 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
D. COPPER TUBING - NOM. 6" DIAMETER (OR SMALLER) TYPE 'L' (OR HEAVIER) COPPER TUBING.
E. COPPER PIPE - NOM. 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
F. THROUGH PENETRATING PRODUCT (BEARING THE UL CLASSIFICATION MARKING) - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

☐ NOM. 2" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC.
☐ NOM. 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. TITEFLEX CORP. A BUNDY CO.
☐ NOM. 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC.

3. FILL, VOID OR CAVITY MATERIAL (BEARING THE UL CLASSIFICATION MARKING) - CAULK OR SEALANT - MIN. $\frac{5}{8}$", $1\frac{1}{4}$", $1\frac{7}{8}$" AND $2\frac{1}{2}$" THICKNESS OF CAULK OR SEALANT FOR 1, 2, 3 AND 4 HOUR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN. $\frac{1}{4}$" DIAMETER BEAD OF CAULK OR SEALANT APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. PRODUCTS: 3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT. THE HOURLY 'F' RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY 'T' RATING OF THE FIRESTOPN SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE4 OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

Max Pipe or Conduit Diam in. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 OR 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+ WHEN COPPER PIPE IS USED, 'T' RATING IS 0 HR.

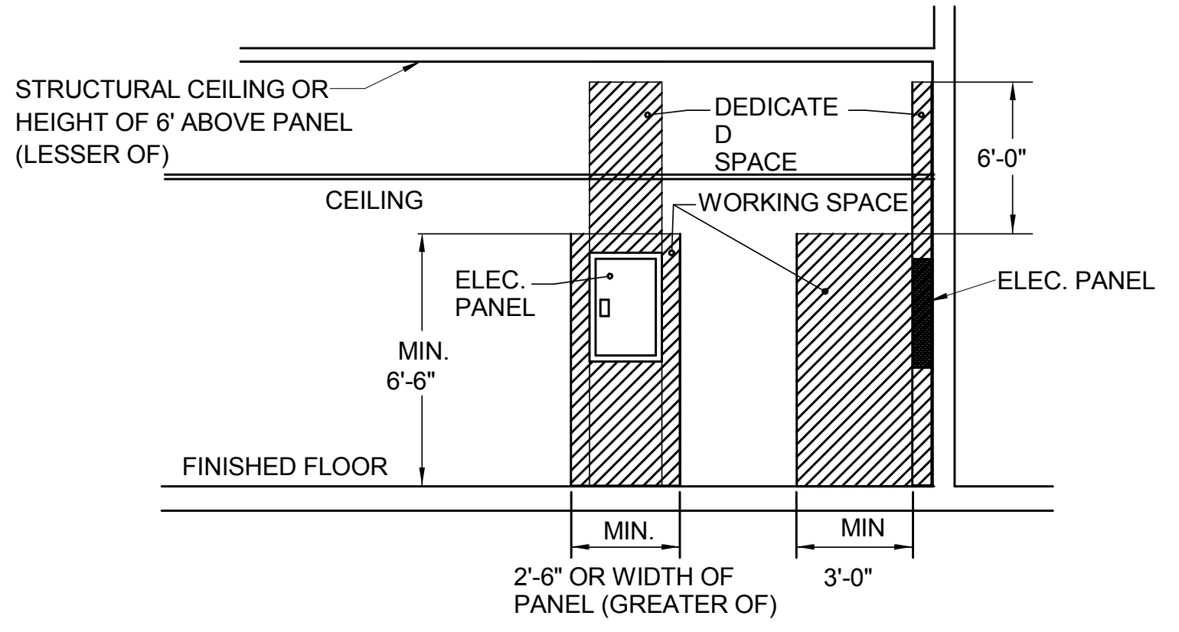
3M COMPANY-CP25WB+CAULK OR FB-3000 WT SEALANT, BEARING THE UL CLASSIFICATION MARKING.

7

GYPSUM WALLBOARD/STUD WALL PENETRATION FIRESTOP DETAIL

SCALE: NONE

NOTE:
NO EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE PERMITTED IN THE DEDICATED SPACE OF THE PANEL. NOTHING SHALL BE PERMITTED IN THE WORKING SPACE.

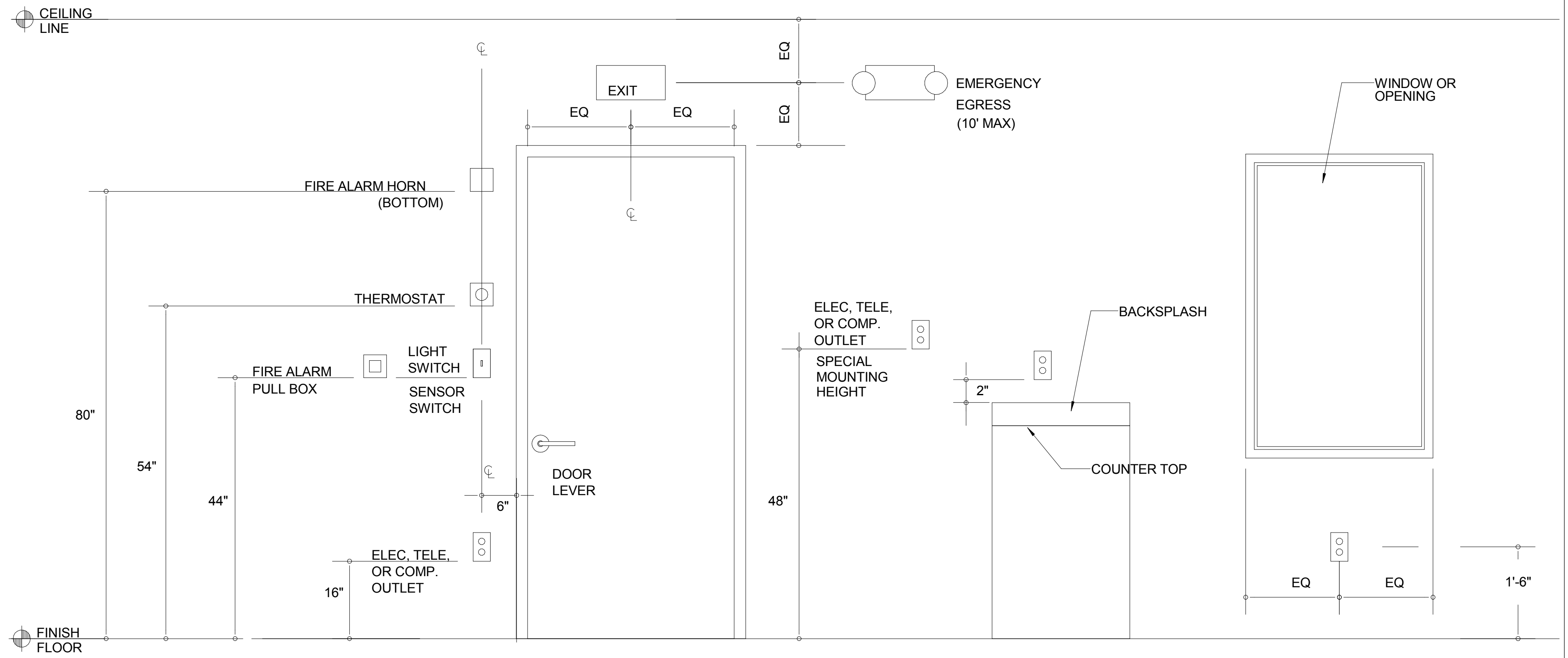


FRONT VIEW
SIDE VIEW

9

PANELBOARD CLEARANCE DETAIL

SCALE: NONE

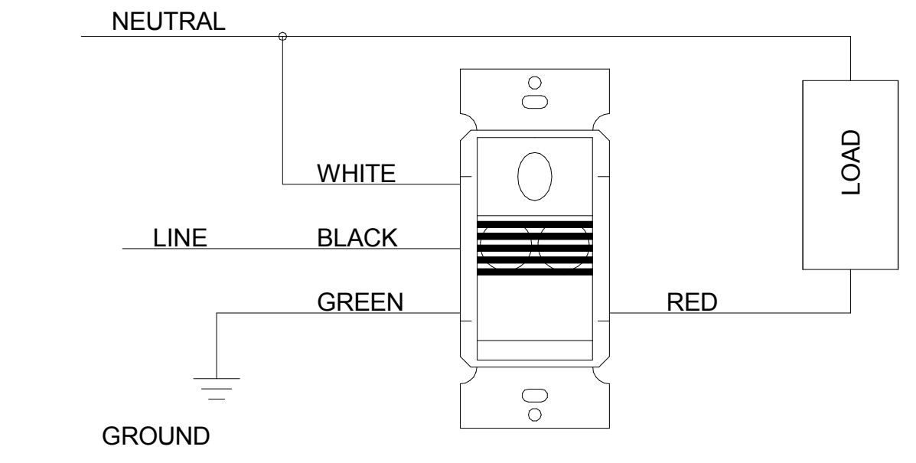


10

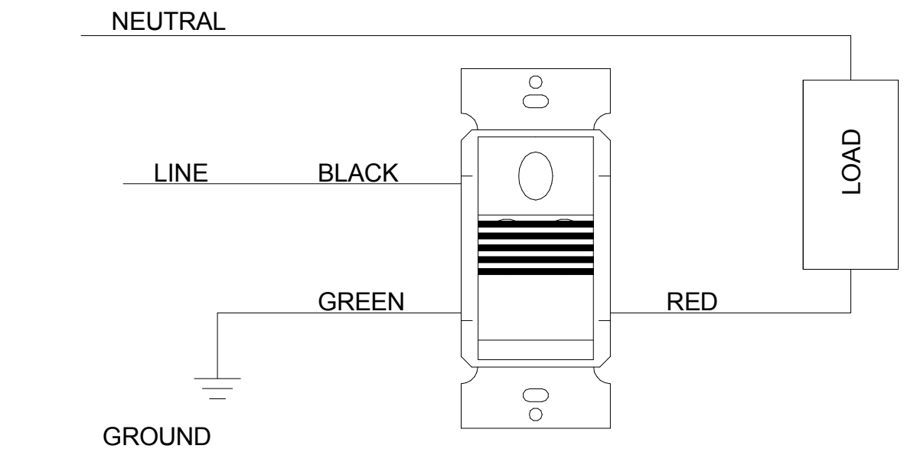
TYPICAL MOUNTING HEIGHTS

SCALE: NONE

DUAL TECHNOLOGY:



PIR TECHNOLOGY:



12

WALL MOUNTED SINGLE BUTTON OCCUPANCY SENSOR SWITCHES

SCALE: NONE

PMC POWER MANAGEMENT CORPORATION
Consulting Engineers
60 MUSIC SQUARE EAST, STE 300
NASHVILLE, TN 37203
www.powermgmt.com
615.383.6949
PROJECT #: 16066
DESIGNER: JMG ENGINEER: JHA

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PROJECT #
217026.05
CLIENT PROJECT NUMBER: N/A

LEE'S SUMMIT M.O.B.
2100 SE Blue Parkway, Lee's Summit, MO 64063
Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

JUDSON H. ADAMS
NUMBER PE-2007009103
2-15-19
ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
DETAILS - ELECTRICAL

SHEET
E301

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PROJECT #: 16066
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PROJECT # 217026.05
CLIENT PROJECT NUMBER: N/A

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Lee's Summit Medical Center
2100 SE Blue Parkway, Lee's Summit, MO 64063

STATUS
CONSTRUCTION DOCUMENTS

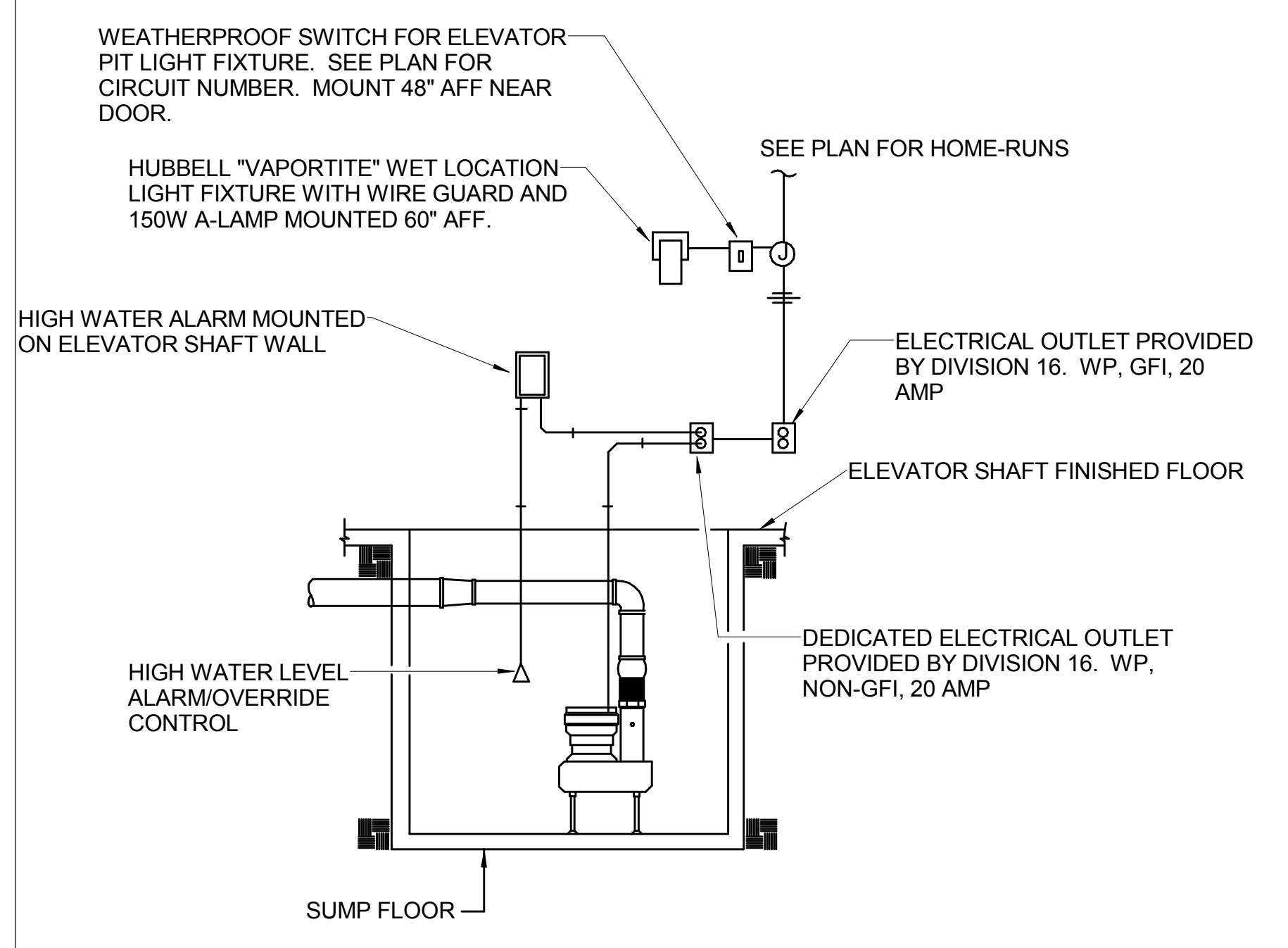
JUDSON H. ADAMS
NUMBER PE-2007009103
2-15-19

ENGINEER OF RECORD

DATES OF ISSUANCE
02/15/19

TITLE
DETAILS - ELECTRICAL

SHEET
E302


WEATHERPROOF SWITCH FOR ELEVATOR PIT LIGHT FIXTURE. SEE PLAN FOR CIRCUIT NUMBER. MOUNT 48" AFF NEAR DOOR.
SEE PLAN FOR HOME-RUNS
HUBBELL "VAPORTITE" WET LOCATION LIGHT FIXTURE WITH WIRE GUARD AND 150W A-LAMP MOUNTED 60" AFF.
J
HIGH WATER ALARM MOUNTED ON ELEVATOR SHAFT WALL
ELECTRICAL OUTLET PROVIDED BY DIVISION 16. WP, GFI, 20 AMP
ELEVATOR SHAFT FINISHED FLOOR
DEDICATED ELECTRICAL OUTLET PROVIDED BY DIVISION 16. WP, NON-GFI, 20 AMP
HIGH WATER LEVEL ALARM/OVERRIDE CONTROL
SUMP FLOOR

1

ELEVATOR SUMP PIT DETAIL

SCALE: NONE

KEY NOTES:

1. PROVIDE 1'x4' WRAPS (W/WIREGUARD) FIXTURE TYPE 'M' WITH INTEGRAL EMERGENCY BATTERY PACKS. REFER TO LIGHTING PLAN FOR SPECIFIC FIXTURES.

2. MAIN ELEVATOR CONTROLLER FUSED DISCONENCT SHALL BE LOCKABLE IN THE OPEN POSITION. REFER TO PLANS FOR RATINGS. SHUNT TRIP PROVIDED BY UPSTREAM BREAKER. REFER TO TO PANEL SCHEDULES FOR DETAILS.

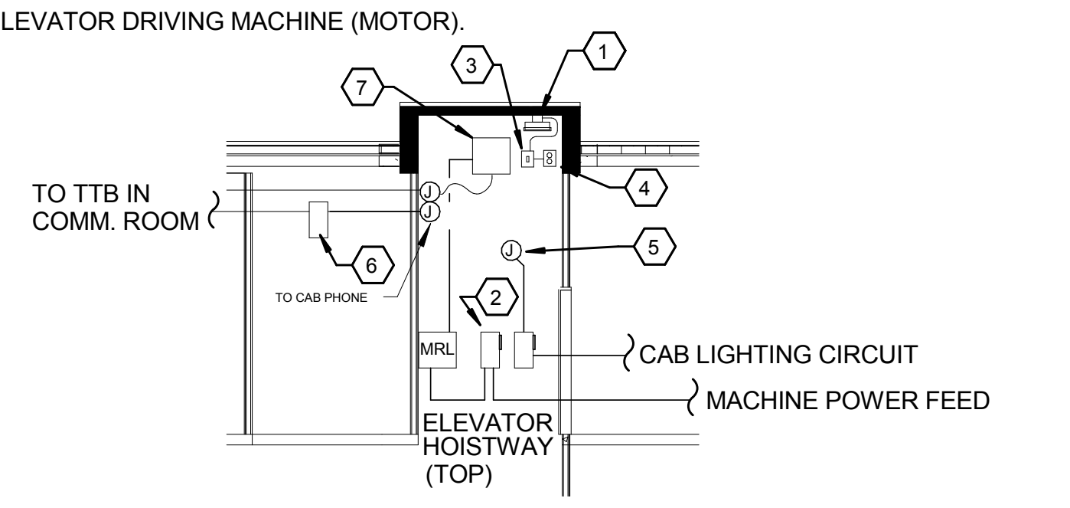
3. LIGHT SWITCH SHALL BE LOCATED ON DOOR JAM SIDE WALL. CONDUIT SHALL BE CONCEALED IN WALL

4. ELECTRICAL DUPLEX OUTLET (120V, GFI, 20AMP).

5. 120V CAB LIGHTING TO BE PROVIDED WITH LOCAKABLE, FUSED DISCONNECT ON DEDICATED BRANCH CIRCUIT. FEEDER CIRCUIT FROM LIFE SAFETY PANEL MAY BE SHARED BETWEEN DIFFERENT ELEVATOR CAB IN SAME BANK.

6. 4" BACK BOX IN ROOM WITH DEDICATED PHONE LINE (24 HOUR CAPABLE COMMUNICATIONS) ROUTED TO TOP OF CONTROLLER.

7. ELEVATOR DRIVING MACHINE (MOTOR).



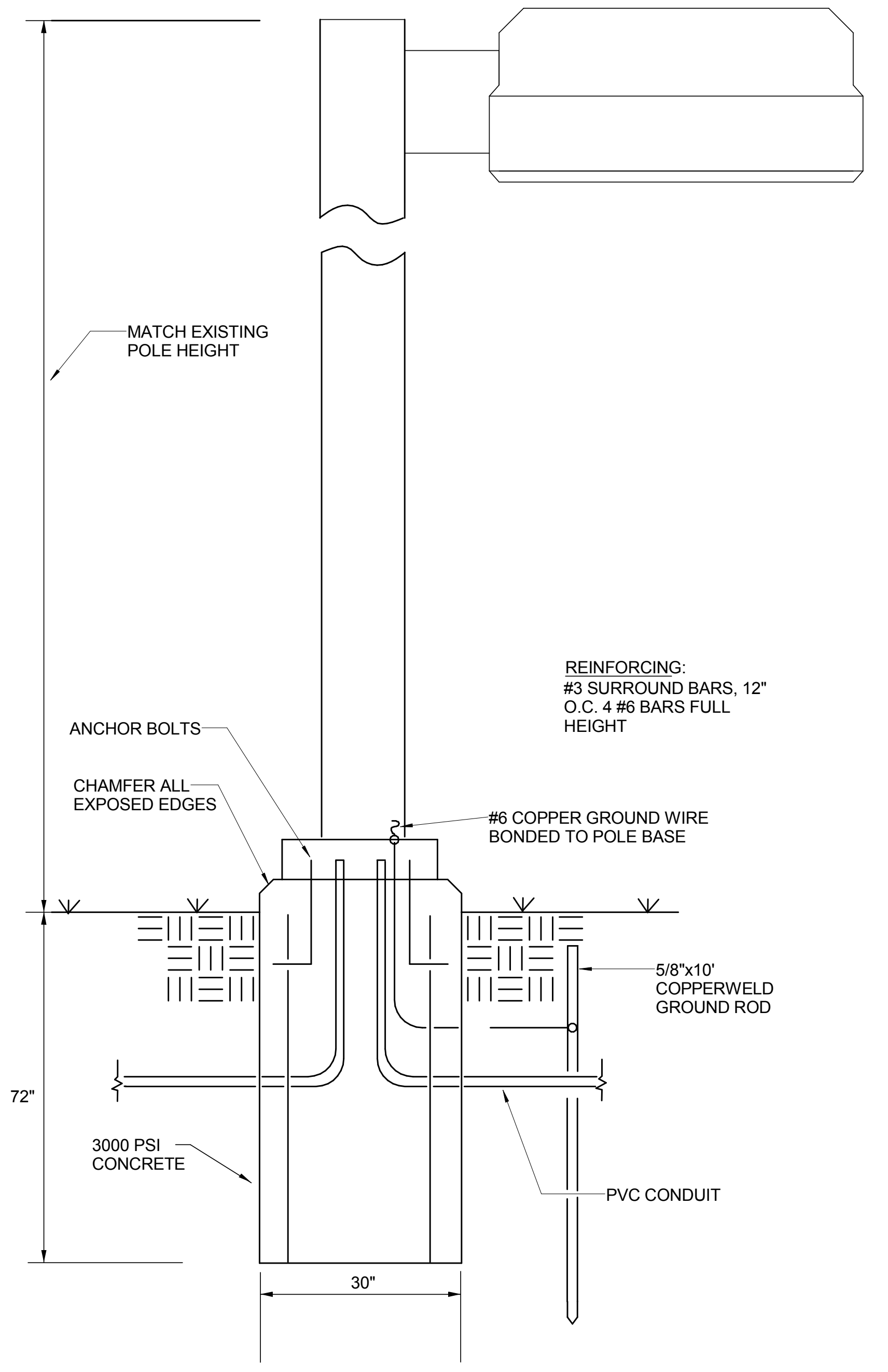
MRL (MACHINE ROOMLESS) ELEVATOR EQUIP LAYOUT

SCALE: NONE

4

NOT USED

5


MATCH EXISTING POLE HEIGHT
REINFORCING:
#3 SURROUND BARS, 12" O.C. 4 #6 BARS FULL HEIGHT
ANCHOR BOLTS
CHAMFER ALL EXPOSED EDGES
#6 COPPER GROUND WIRE BONDED TO POLE BASE
5/8"x10' COPPERWELD GROUND ROD
72"
3000 PSI CONCRETE
PVC CONDUIT
30"

6

LIGHT POLE BASE DETAIL

SCALE: NONE

NOTES:

1. HEAT DETECTOR IN SHAFT OF MACHINE ROOM EITHER DIRECTLY OR THRU THE F.A.C.P. UPON DETECTION OF HEAT (190°F).
A) KILLS POWER TO ELEVATOR WITH A SHUNT TRIP BREAKER.
B) IS ADDRESSED SPECIFICALLY AT THE F.A.C.P.

2. NOT USED.

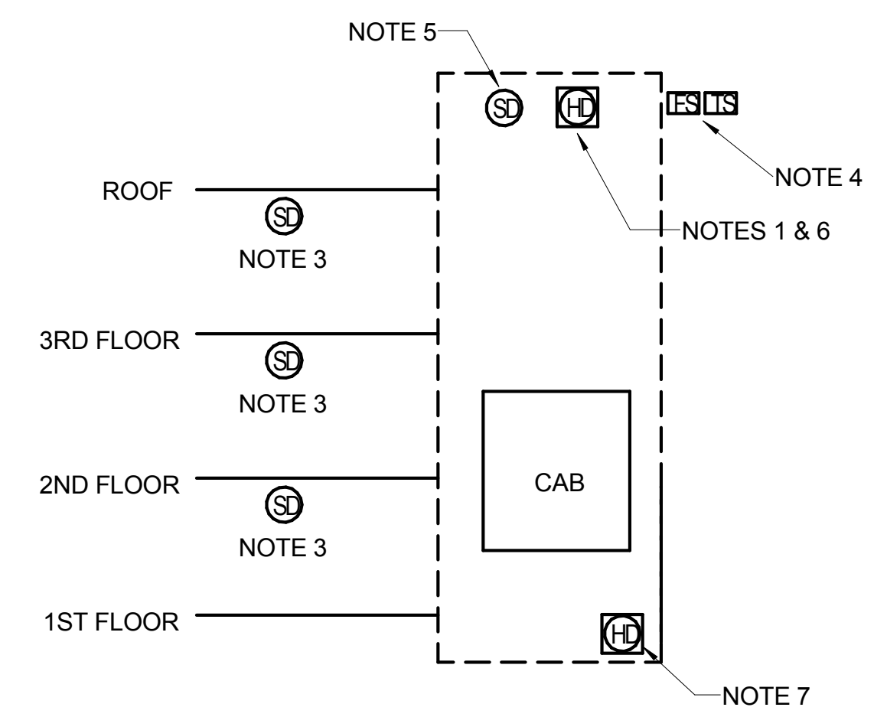
3. BY ZONE AND INITIATES ELEVATOR RECALL DIRECTLY (NOT THRU F.A.C.P.).

4. FLOW SWITCH IS A SPECIFIC ADDRESS AND INDICATES AN OPEN SPRINKLER HEAD IN SHAFT OR MACHINE ROOM.

5. THIS SMOKE DETECTOR IS AN ADDRESSED ZONE AND LIGHTS AN L.E.D. MOUNTED AT THE FIRE FIGHTERS OPERATION KEY SWITCH TO ALERT FIRE DEPT. PERSONEL OF SMOKE IN ELEVATOR SHAFT.

6. INSTALL HEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD.

7. HEAT DETECTOR IS NOT REQUIRED IF SPRINKLER HEAD IS INNSTALLED WITHIN 24" OF PIT FLOOR.



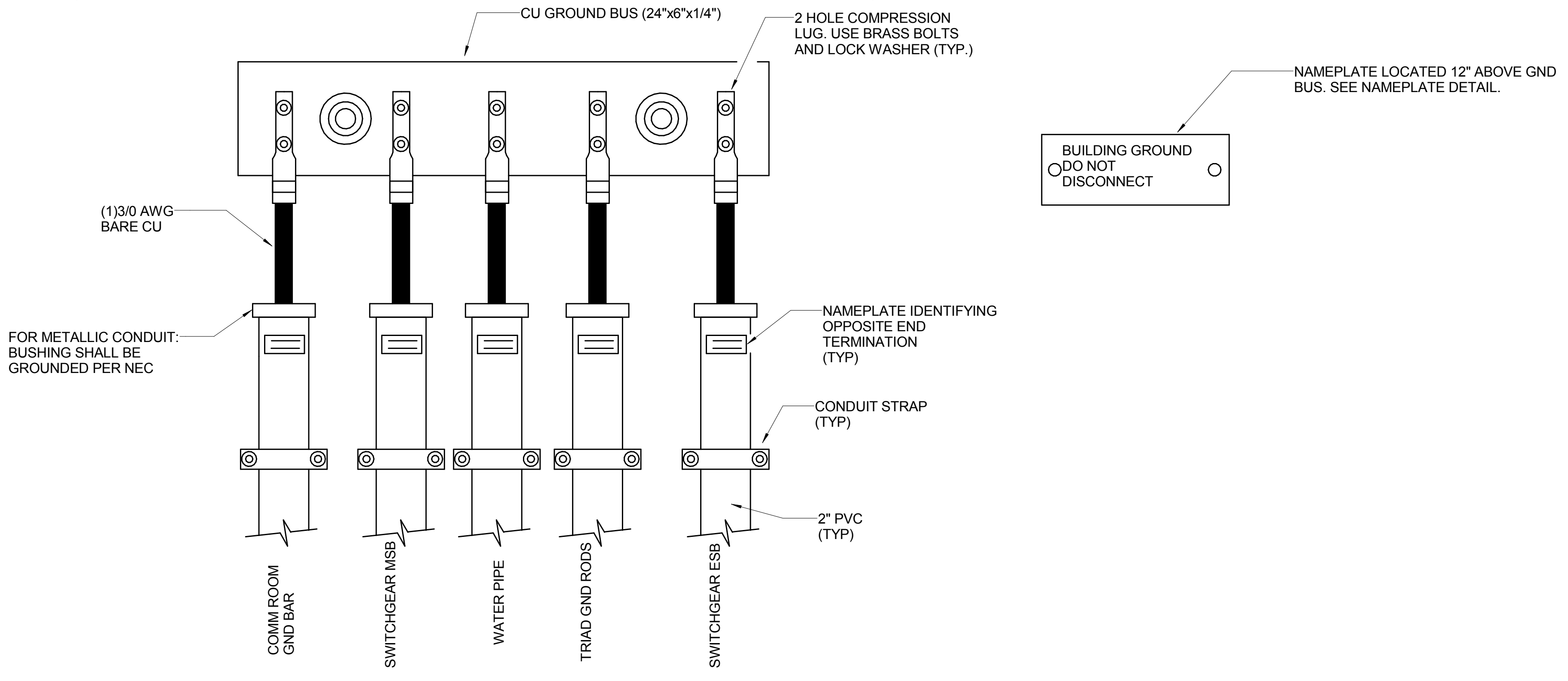
7

ELEVATOR FIRE ALARM SYSTEM DETAIL

SCALE: NONE

NOT USED

8


CU GROUND BUS (24"x6"x1/4")
2 HOLE COMPRESSION LUG. USE BRASS BOLTS AND LOCK WASHER (TYP.)
NAMEPLATE LOCATED 12" ABOVE GND BUS. SEE NAMEPLATE DETAIL.
BUILDING GROUND DO NOT DISCONNECT
(1)3/0 AWG BARE CU
FOR METALLIC CONDUIT: BUSHING SHALL BE GROUNDED PER NEC
NAMEPLATE IDENTIFYING OPPOSITE END TERMINATION (TYP)
CONDUIT STRAP (TYP)
2" PVC (TYP)
COMM ROOM GND BAR
SWITCHGEAR MSB
WATER PIPE
TRIAD GND RODS
SWITCHGEAR ESB

ELECTRICAL ROOM GROUND BUS DETAIL

SCALE: NONE

9

NOT USED

11

NOT USED

12

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