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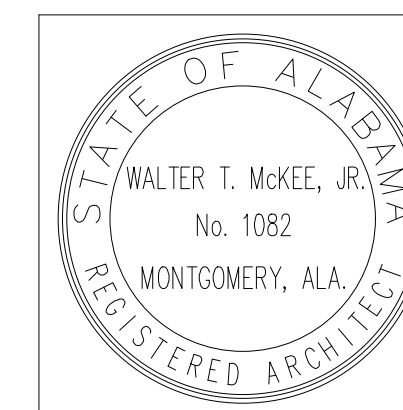
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DCM PROJECT NO. 2026509



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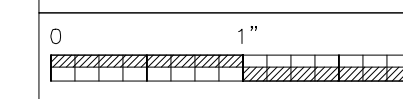
SHEET TITLE: COVER SHEET AND INDEX



PROJ. MGR.: FGH
DRAWN: FGH
DATE: 09.22.26
REVISIONS

JOB NO.
MKA-26-042-00
SHEET NO:

T1.0



PLUMBING CALCULATIONS		
PLUMBING REQUIREMENTS CLASSROOMS		
OCCUPANT LOAD TOTAL = 221 PERSONS		
TOILETS (TABLE 2902.1)		
MEN'S (1 PER 125 OCC.) (111 OCC.): 1		
WOMEN'S (1 PER 65 OCC.) (110 OCC.): 2		
LAVATORIES (TABLE 2902.1)		
MEN'S (1 PER 200 OCC.) (111 OCC.): 1		
WOMEN'S (1 PER 200 OCC.) (110 OCC.): 1		
DRINKING FOUNTAINS (TABLE 2902.1)		
(1 PER 500 OCC.) (221 OCC.): 1		
SERVICE SINK (TABLE 2902.1): 1		
PLUMBING REQUIREMENTS BUSINESS AREAS		
OCCUPANT LOAD TOTAL = 103 PERSONS		
TOILETS (TABLE 2902.1)		
1:25 FOR 1ST 50 1:50 EXCEEDING 50		
MEN'S (1 PER 25 OCC.) (52 OCC.): 3		
WOMEN'S (1 PER 25 OCC.) (51 OCC.): 3		
LAVATORIES (TABLE 2902.1)		
1:40 FOR 1ST 40 1:80 EXCEEDING 80		
MEN'S (1 PER 40 OCC.) (52 OCC.): 2		
WOMEN'S (1 PER 40 OCC.) (51 OCC.): 2		
DRINKING FOUNTAINS (TABLE 2902.1)		
(1 PER 100 OCC.) (104 OCC.): 2		
SERVICE SINK (TABLE 2902.1): 1		
TOTAL BUILDING REQUIREMENTS		
TOILETS	REQUIRED	PROVIDED
MEN'S:	4	10
WOMEN'S:	5	10
LAVATORIES		
MEN'S:	3	5
WOMEN'S:	3	3
DRINKING FOUNTAINS:	3	3
SERVICE SINKS:	2	2

LIFE SAFETY LEGEND	
SYMBOL	DESCRIPTION
1	ONE HOUR FIRE RATED PARTITION ULF - XXX - SEE SECTION X/AX.X
2	TWO HOUR FIRE RATED PARTITION ULF - XXX - SEE SECTION X/AX.X
3	THREE HOUR FIRE RATED PARTITION ULF - XXX - SEE SECTION X/AX.X
	ONE HOUR FIRE RATED CEILING ASSEMBLY WHI-495PSH
EXIT	PRIMARY BUILDING EXIT
TD 250'	TRAVEL DISTANCE NEAREST TO EXIT
	HANDICAP ACCESSIBLE
FEC	FIRE EXTINGUISHER LOCATION (SEE DETAIL A8.1)
FSD	FIRE SEPARATION DISTANCE (TABLE 705.8)
EWR-10'	EXIT WIDTH REQUIRED
EW-34'	EXIT WIDTH PROVIDED
168 340	ACTUAL OCCUPANT LOAD SERVED TOTAL EGRESS CAPACITY
3/4 HOUR	RATED DOOR ASSEMBLY (SECTION 716) (TABLE 716.1.2)
(UP, S) 25% (UP, S) NO LIMIT	UNPROTECTED, SPRINKLERED (% OF OPENINGS ALLOWED) (TABLE 705.8)

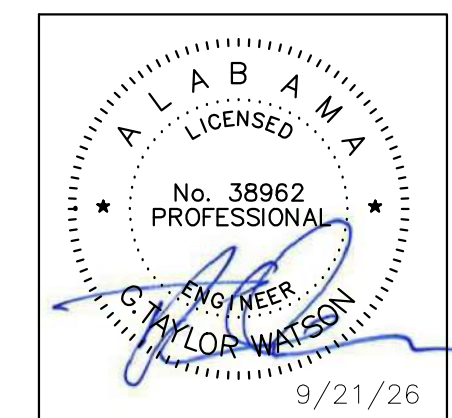
CODE REVIEW	
CODE: 2021 INTERNATIONAL BUILDING CODE	
OCCUPANCY TYPE (SECTION 302): GROUP "B" BUSINESS	
SPRINKLERED (SECTION 903 & 428.3.9): REQUIRED	
NUMBER OF STORIES (TABLE 504.4): 4	
CONSTRUCTION TYPE (SECTION 602): TYPE II - B	
TYPE II REQUIRES THE FOLLOWING FIRE RESISTANCE (TABLE 601):	
STRUCTURAL FRAME:	0 HOUR
EXTERIOR BEARING WALLS:	0 HOUR
INTERIOR BEARING WALLS:	0 HOUR
EXTERIOR NONBEARING WALLS:	0 HOUR
INTERIOR NONBEARING WALLS:	0 HOUR
FLOOR CONSTRUCTION:	0 HOUR
ROOF CONSTRUCTION:	0 HOUR
OTHER REQUIREMENTS:	
FIRE WALL RATING (TABLE 706.4 EXCEPTION a): SEE PLAN (2HR)	
OCCUPANCY SEPARATION (TABLE 508.4): ACCESSORY OCCUPANCY IS LESS THAN 10% OF ALLOWED SQ. FT.	
INCIDENTAL USE AREAS (TABLE 509.1): N/A	
FIRE-RESISTANT CORRIDORS (TABLE 1020.2): CORRIDORS SERVING MORE THAN 30 OCCUPANTS IN SPRINKLERED TYPE "B" OCCUPANCY SHALL NOT BE REQUIRED TO BE RATED.	
STAIRS & SHAFT ENCLOSURES (707 & TABLE 707.3.10 NOT LESS THAN 508.4 IF APPLICABLE): SEE PLAN	
SINGLE OCCUPANCY FIRE BARRIERS (TABLE 707.3.10): N/A	
EXIT ACCESS TRAVEL DISTANCE IS 300 FEET FOR SPRINKLERED (TABLE 1017.2)	

BUILDING AREA CALCULATIONS	
TOTAL BUILDING AREA	
OCCUPANCY TYPE (SECTION 302) - GROUP "B"	
CONSTRUCTION TYPE (SECTION 602): II	
ALLOWABLE AREA FACTOR: (1.00) 23,000 SQ FT (TABLE 506.2)	
ALLOWABLE AREA W/ FRONTAGE INCREASE: (1.00) 13,990 SQ FT	
ACTUAL SF = 6,995 SQ FT	
ALLOWABLE HEIGHT (TABLE 504.3) ALLOWABLE # OF STORIES (TABLE 504.4)	
ALLOWABLE HEIGHT: 75 FT	
ALLOWABLE NO. OF STORIES: 4	
ACTUAL BUILDING HEIGHT: ± 35 FT	
ACTUAL NO. OF STORIES: 2	
BUILDING AREA MODIFICATION (506.3)	
ALLOWABLE AREA (506.2.1)	
EQUATION 5-1: Aa = At + (NS x If)	
Aa = ALLOWABLE AREA	
At = TABULAR ALLOWANCE FACTOR	
NS = TABULAR ALLOWABLE AREA NON SPRINKLERED	
If = AREA INCREASE FACTOR DUE TO FRONTAGE TABLE 506.3.3	
PERCENTAGE OF OPEN BUILDING PERIMETER = 63%	
156 (open perimeter) / 246 (total perimeter) = 0.63	
Width = 30 feet or more	
If = 1.00	
(6,995 x 1.00) = 6,995 SF AREA INCREASE	

EXIT CALCULATIONS	
OCCUPANT LOAD	
OCCUPANT LOAD TOTAL (1004 & TABLE 1004.5) =	
BUSINESS (150 SQ FT./PERSON)	
5,627 / 150 = 38 PERSONS 1st FLOOR	
9,667 / 150 = 65 PERSONS 2nd FLOOR	
103 PERSONS BUSINESS	
CLASSROOMS (20 SQ FT./PERSON)	
4,418 / 20 = 221 PERSONS CLASSRMS	
324 PERSONS TOTAL	
EXIT REQUIREMENTS	
EXIT ACCESS (TABLE 1006.2.1 & TABLE 1006.3.3)	
NO. OF EXITS REQUIRED: 2	
NO. OF EXITS FURNISHED: SEE PLAN	
MEANS OF EGRESS WIDTH (1005.3)	
SEE PLAN FOR EXIT WIDTHS (324 * 0.2 = 65")	
MINIMUM CORRIDOR WIDTH (TABLE 1020.2) 44"	



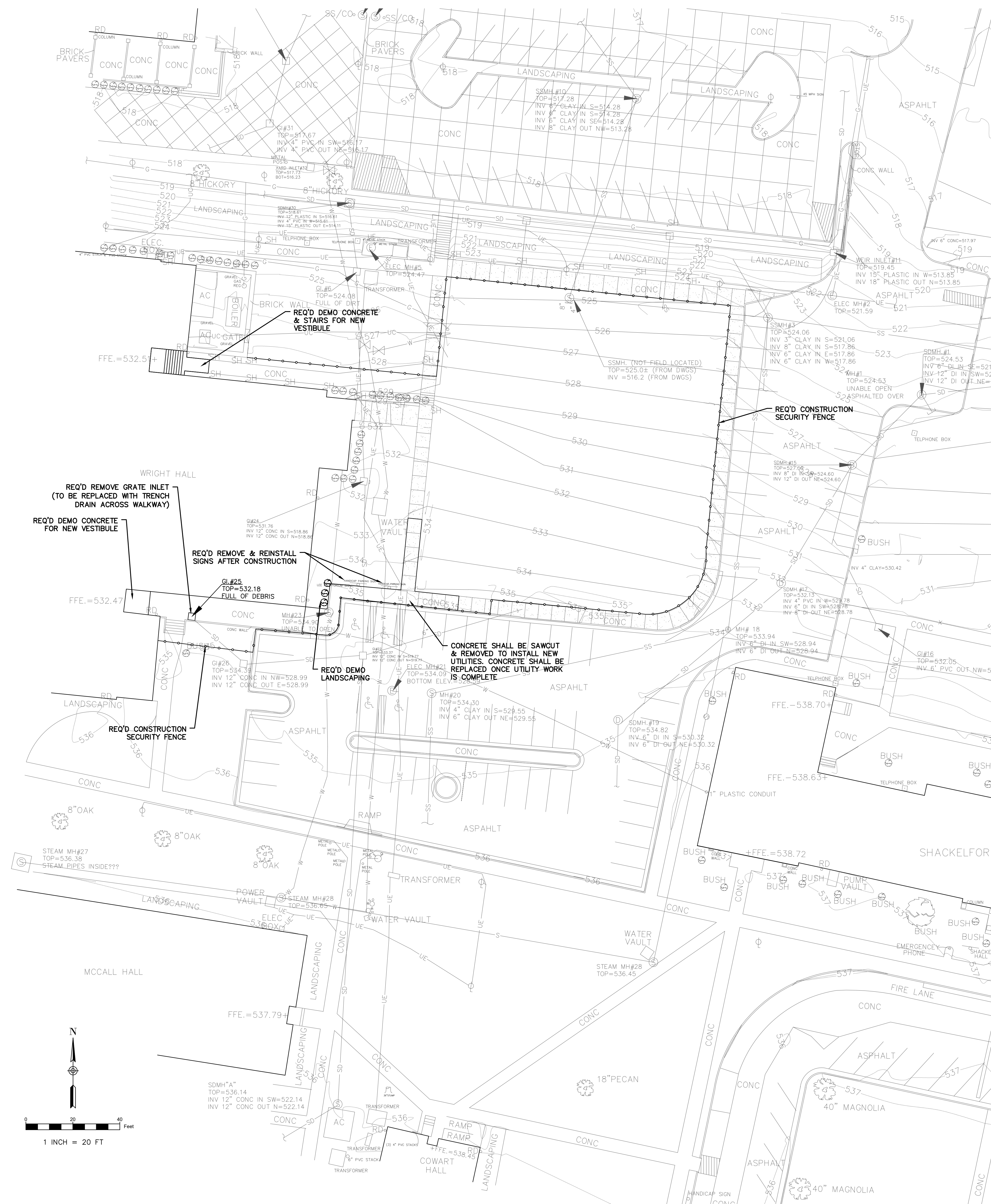
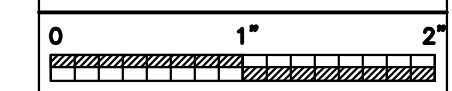
LIFE SAFETY PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"



PROJ. MGR.: GTW
DRAWN: GTW
DATE: 09.21.26
REVISIONS

JOB NO. MKA-26-042-00
SHEET NO:

C-1



DESCRIPTION	EXISTING	DEMO
BUILDING		
PROPERTY LINE		
CONCRETE SIDEWALK		
ASPHALT PAVEMENT		
CURB & GUTTER		
SANITARY SEWER MANHOLE		
SANITARY SEWER LINE		
GAS METER		
GAS LINE		
STORM MANHOLE		
GRATE INLET		
STORM DRAIN LINE		
CLEAN-OUT		
WATER LINE		
WATER METER		
FIRE HYDRANT		
POWER POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST		
METAL COLUMN		
FLOOD LIGHT		
BUSH		
HEDGE ROW		
TREE		
IRON PIN FOUND		
FENCE		
WATER VALVE		

DEMOLITION NOTES:

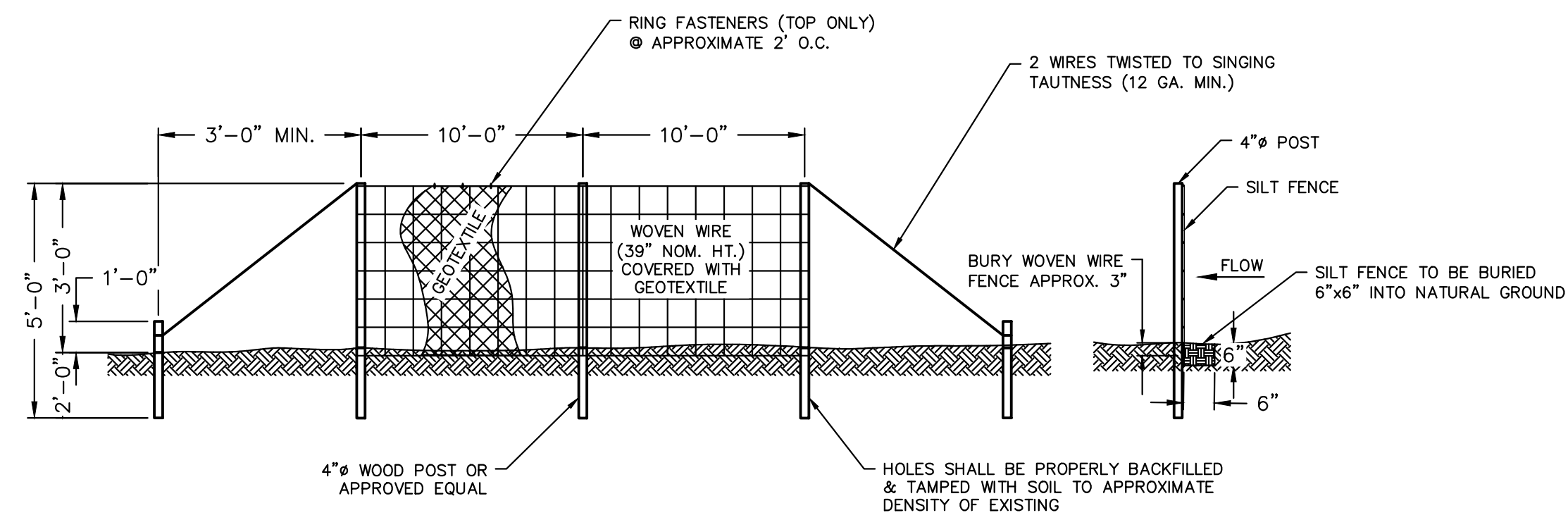
1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN CORRESPOND TO THE ACTUAL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTAINLY BELIEVE THAT THEY ARE LOCATED AS CLOSELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL OF THE UNDERGROUND UTILITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES TO BE UNCOVERED ARE VERIFIED AS TO THE SIZE, LOCATION, ELEVATION, AND CONDITION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
4. THIS PLAN IS NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED OR DEMOLISHED BY THE CONTRACTOR. THERE ARE OTHER ITEMS NOT SHOWN THAT THE CONTRACTOR MUST REMOVE TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THE PLANS.
5. THE CONTRACTOR SHALL REMOVE EXISTING CONCRETE BY SAW CUTTING THE FULL DEPTH TO PROVIDE A CLEAN EDGE.



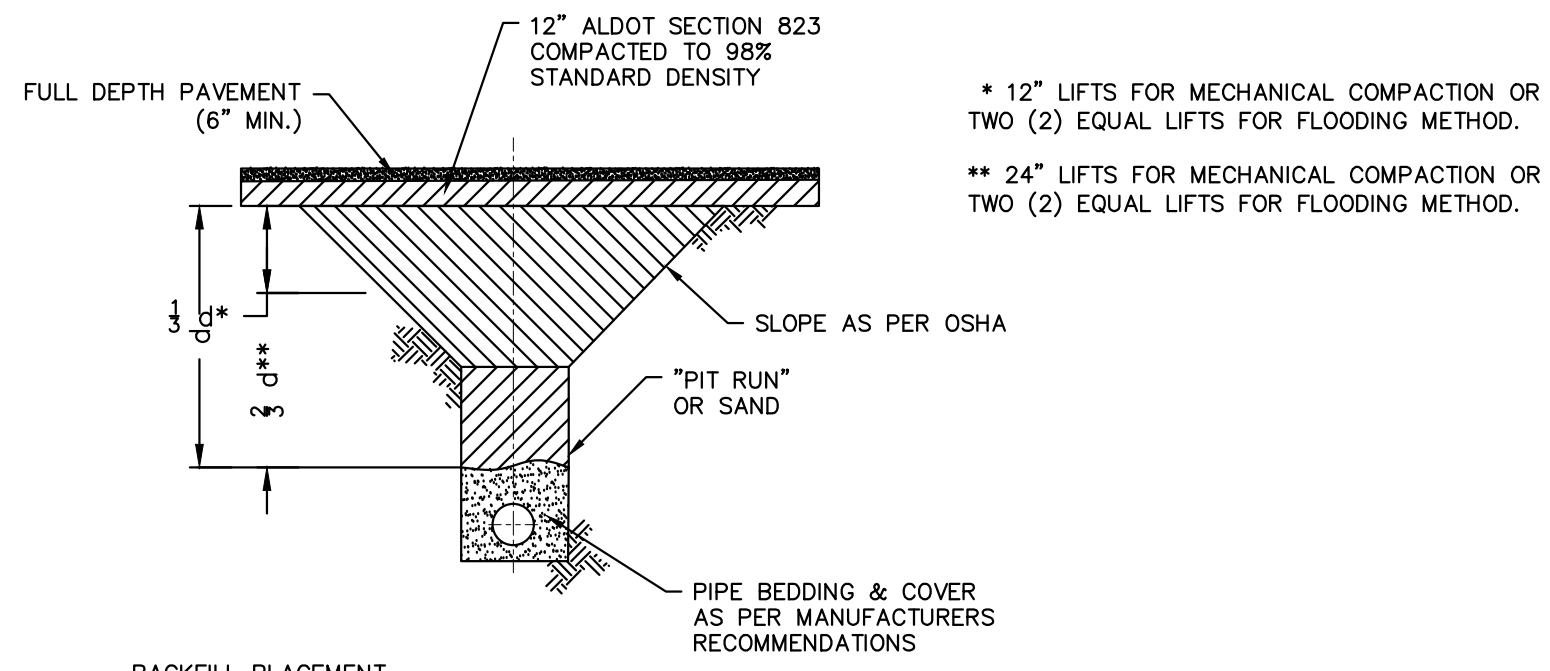
LEGEND		
DESCRIPTION	EXISTING	NEW
BUILDING		
PROPERTY LINE		
CONCRETE		
ASPHALT PAVEMENT		
CURB		
SANITARY SEWER MANHOLE		
SANITARY SEWER LINE		
GAS METER		
GAS LINE		
STORM MANHOLE		
GRATE INLET		
STORM DRAIN LINE		
CLEAN-OUT		
WATER LINE		
WATER METER		
FIRE HYDRANT		
POWER POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST		
METAL COLUMN		
FLOOD LIGHT		
BUSH		
HEDGE ROW		
TREE		
IRON PIN FOUND		
FENCE		
WATER VALVE		

- SITE NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPLICABLE GOVERNMENTAL AGENCIES AND DEPARTMENTS OF THE BEGINNING OF CONSTRUCTION.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
 3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE VARIOUS UTILITY COMPANIES ON THE PLACEMENT OF THEIR CONDUITS AND SERVICES.
 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL INVERT ELEVATIONS, PER CENT OF GRADE, PIPE SIZES, ETC. AS THE IMPROVEMENTS ARE INSTALLED. INSTALLATIONS THAT ARE GRADE DEPENDENT (SANITARY SEWER, STORM SEWER, ETC.) TO BE LAID BEGINNING AT THE LOWEST POINT THEN PROCEEDING "UPSTREAM".
 5. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND KEEPING MUD AND DEBRIS OFF PUBLIC STREETS AND RIGHTS OF WAY. CLEAN UP IS REQUIRED DAILY.
 6. SEEDING AND MULCHING OPERATIONS TO BE COORDINATED THROUGH THE OWNER AND ENGINEER. IF SAID OPERATIONS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR CARE OF SAID GRASSING UNTIL AN ACCEPTABLE STAND IS OBTAINED. RESEEDING, FERTILIZATION, ETC. TO BE DONE TO ACHIEVE ACCEPTABLE STAND OF GRASS.
 7. PRICES SHALL INCLUDE ALL WORK NECESSARY FOR THE COMPLETION OF THE PROJECT. COSTS SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO PROVIDE A FINISHED PRODUCT.

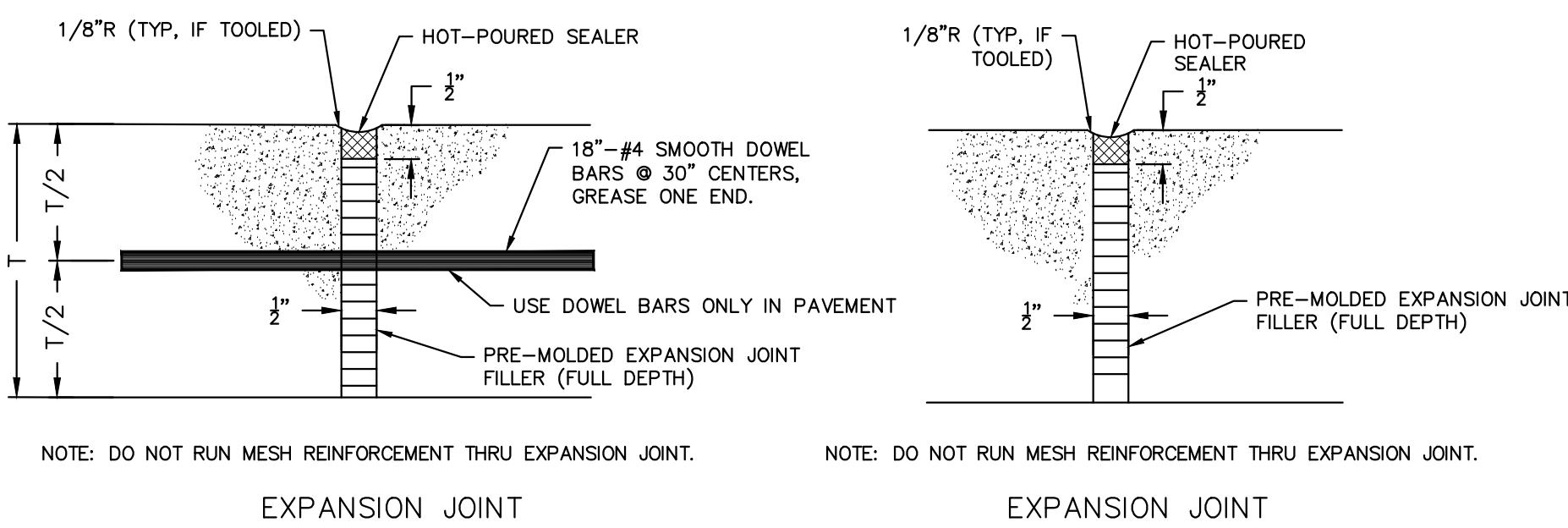
- EROSION/SEDIMENTATION CONTROL NOTES
1. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION/SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH ADEM/EPA "BEST MANAGEMENT PRACTICES". MEASURES SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUMS. MAINTENANCE OF SAID MEASURES TO CONTINUE UNTIL AN ACCEPTABLE STAND OF GRASS IS OBTAINED OR THE OWNER RELEASES THE CONTRACTOR OF SAID RESPONSIBILITY.
 2. THE CONTRACTOR SHALL INSTALL SILT FENCES, CHECK DAMS, INLET SEDIMENT TRAPS, AND ANY OTHER MEANS NECESSARY TO PREVENT EROSION.
 3. MAINTENANCE OF SAID STRUCTURES AND/OR MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL EROSION CONTROL STRUCTURES/MEASURES TO BE INSPECTED IMMEDIATELY AFTER ALL RAINFALL EVENTS. CORRECTIVE ACTION, IF REQUIRED, MUST BE TAKEN IMMEDIATELY. CONTRACTOR'S RESPONSIBILITY OF MAINTENANCE ENDS WITH FINAL ACCEPTANCE OF PROJECT.
 4. TEMPORARY SEEDING OF DISTURBED AREAS SHOULD BE IMPLEMENTED WHENEVER DISTURBED SOIL AREAS WILL NOT BE BROUGHT TO FINISH GRADE FOR A PERIOD OF 15 CALENDAR DAYS OR LONGER.



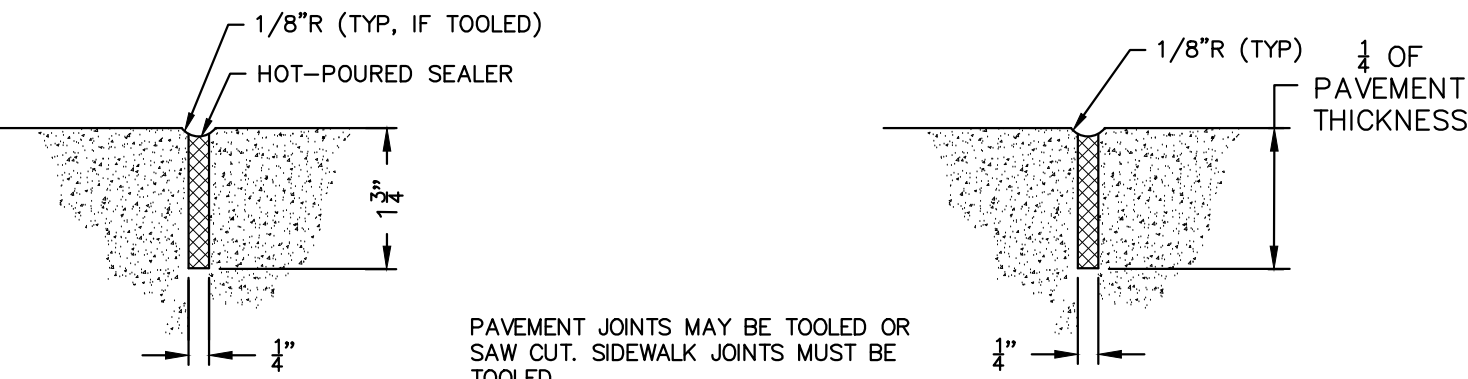
TYPE "A" SILT FENCE & INSTALLATION
N.T.S.



UTILITY TRENCH INSTALLATION
N.T.S. (03-11-03)



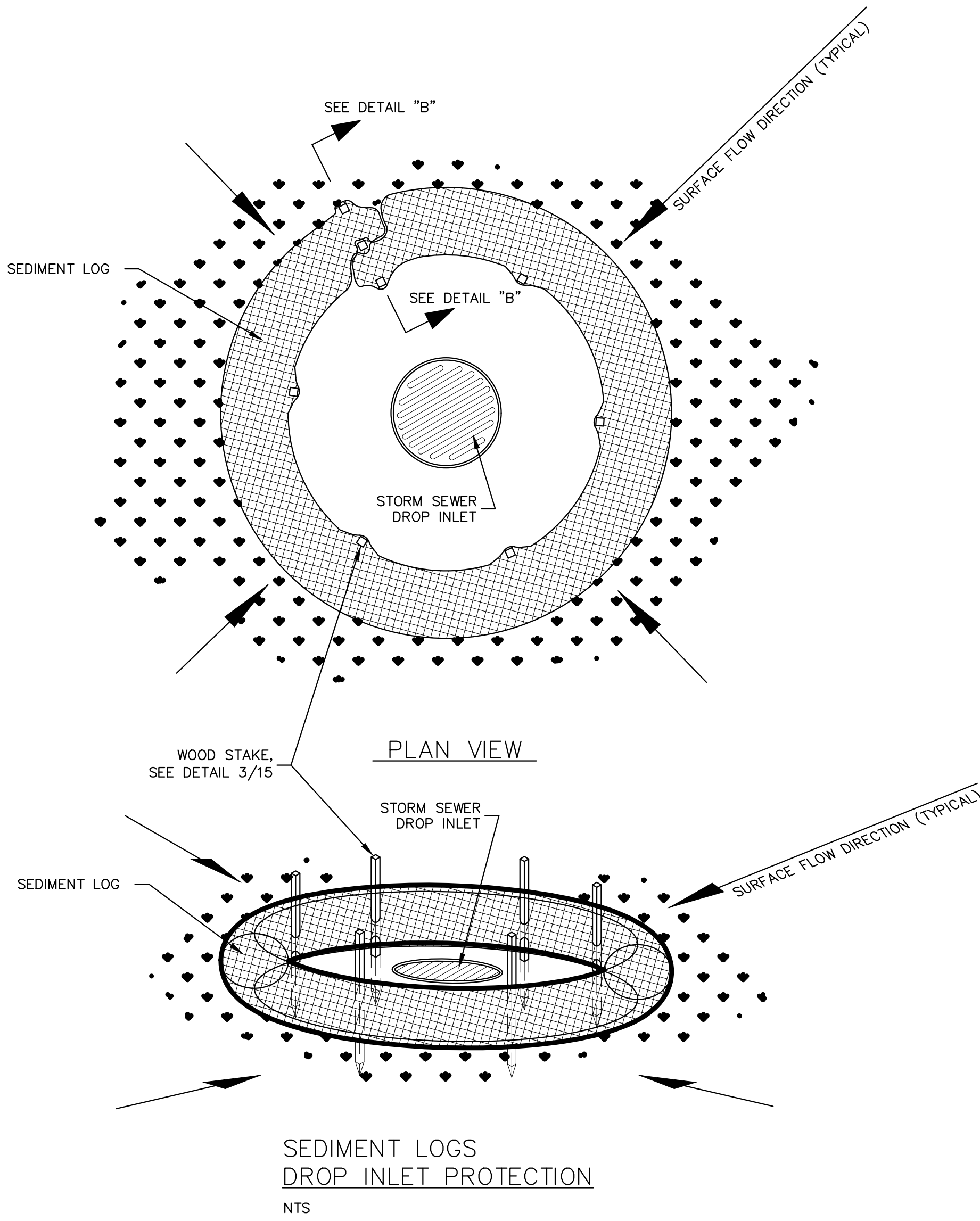
EXPANSION JOINT



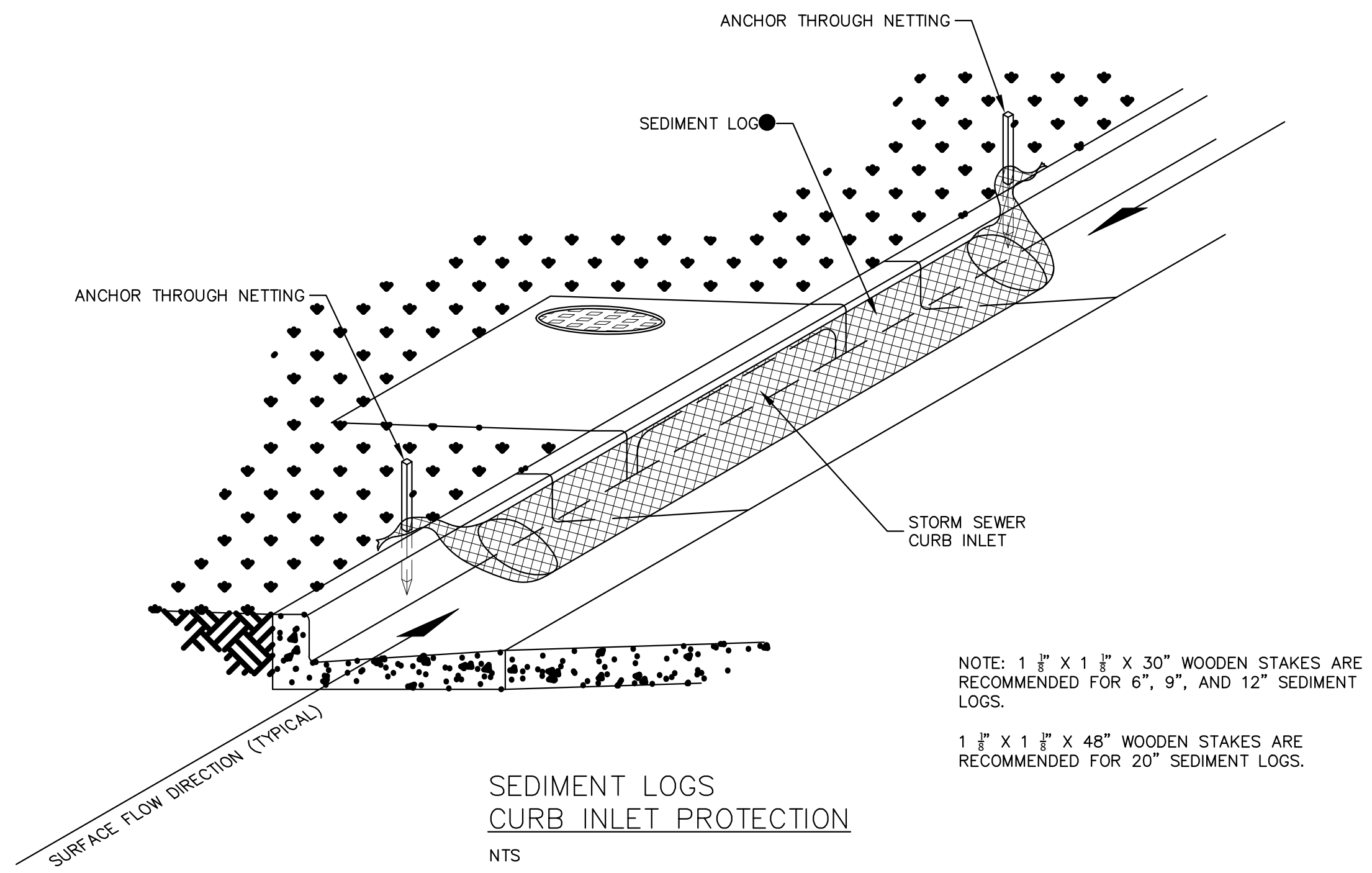
CONTRACTION JOINT
PAVEMENT

CONCRETE JOINT DETAILS
N.T.S.

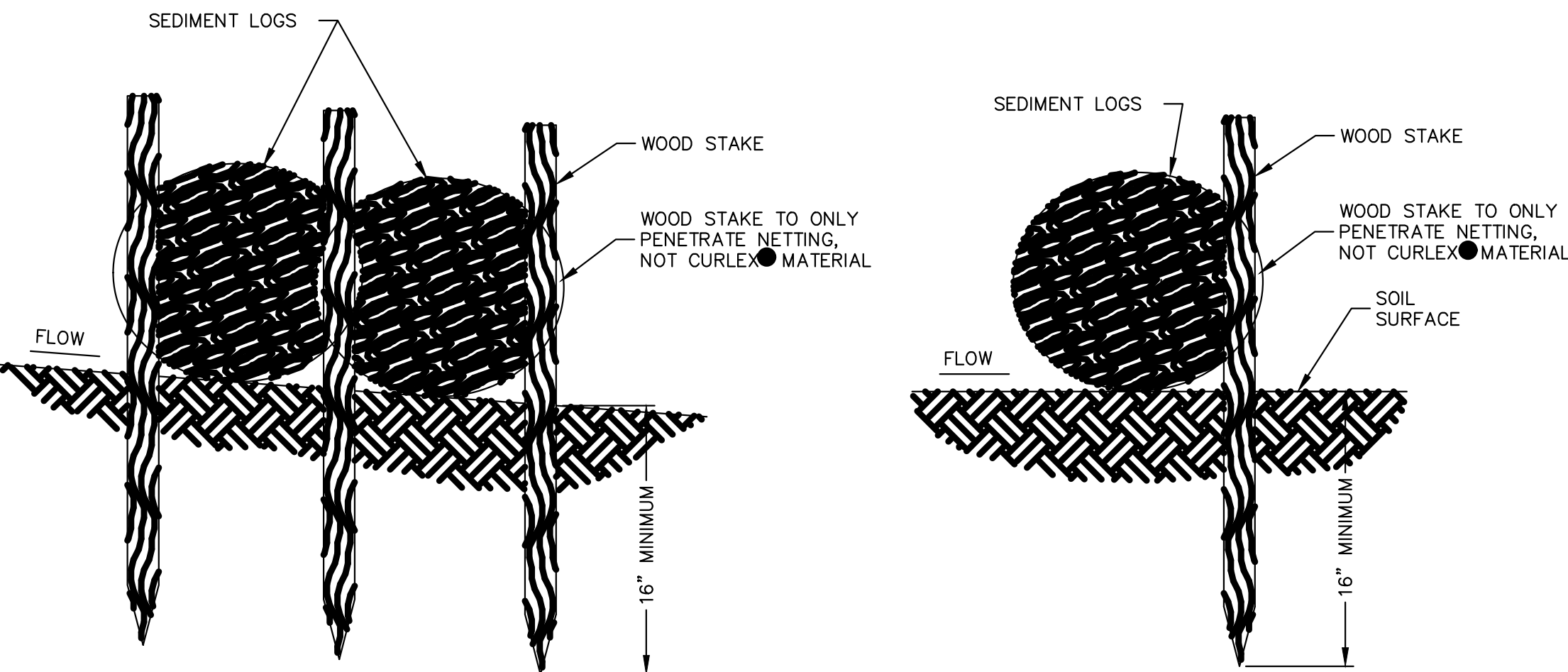
1. EXPANSION JOINTS IN THE PAVEMENT SHALL BE A MAXIMUM WIDTH OF 30 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 10 FEET.
2. EXPANSION JOINTS IN THE SIDEWALK SHALL BE A MAXIMUM WIDTH OF 20 FEET. CONTRACTION JOINTS SHALL BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, MAX 5 FEET.



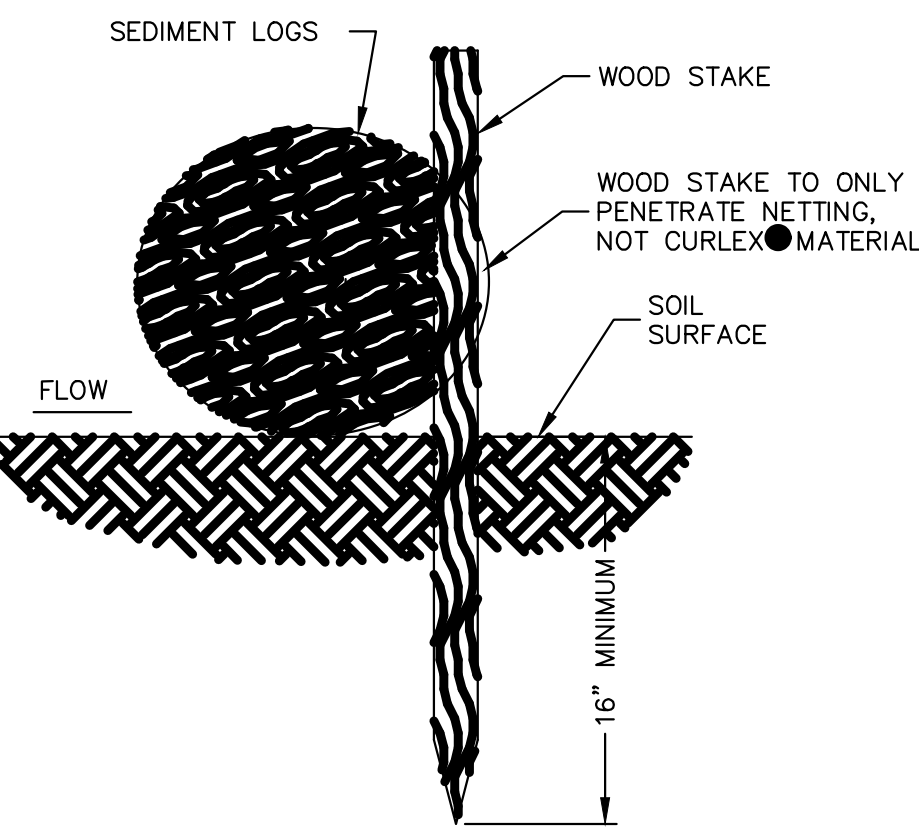
SEDIMENT LOGS
DROP INLET PROTECTION
N.T.S.



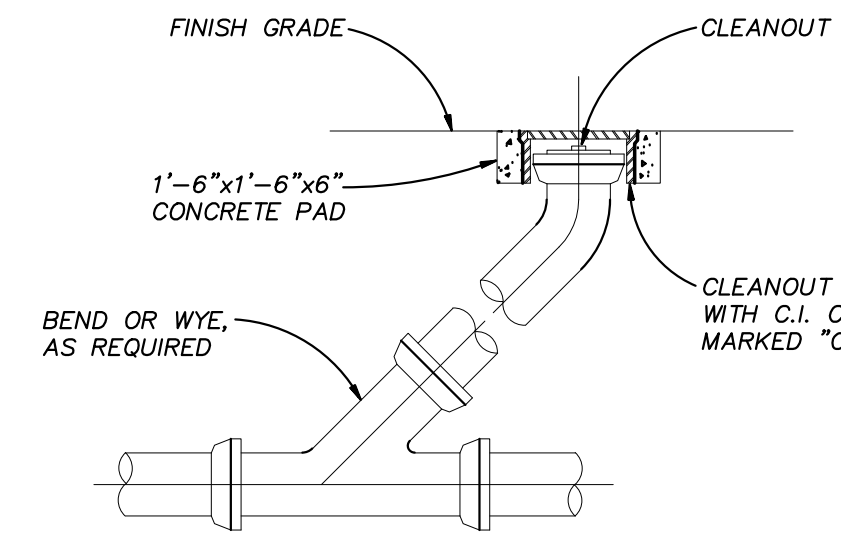
SEDIMENT LOGS
CURB INLET PROTECTION
N.T.S.



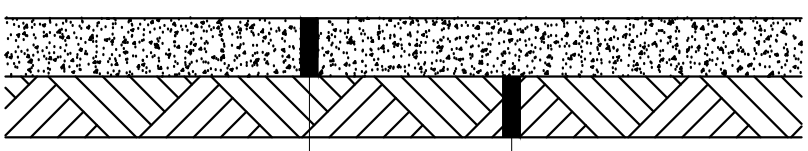
STAKE DETAIL "B"
N.T.S.



STAKE DETAIL "A"
N.T.S.

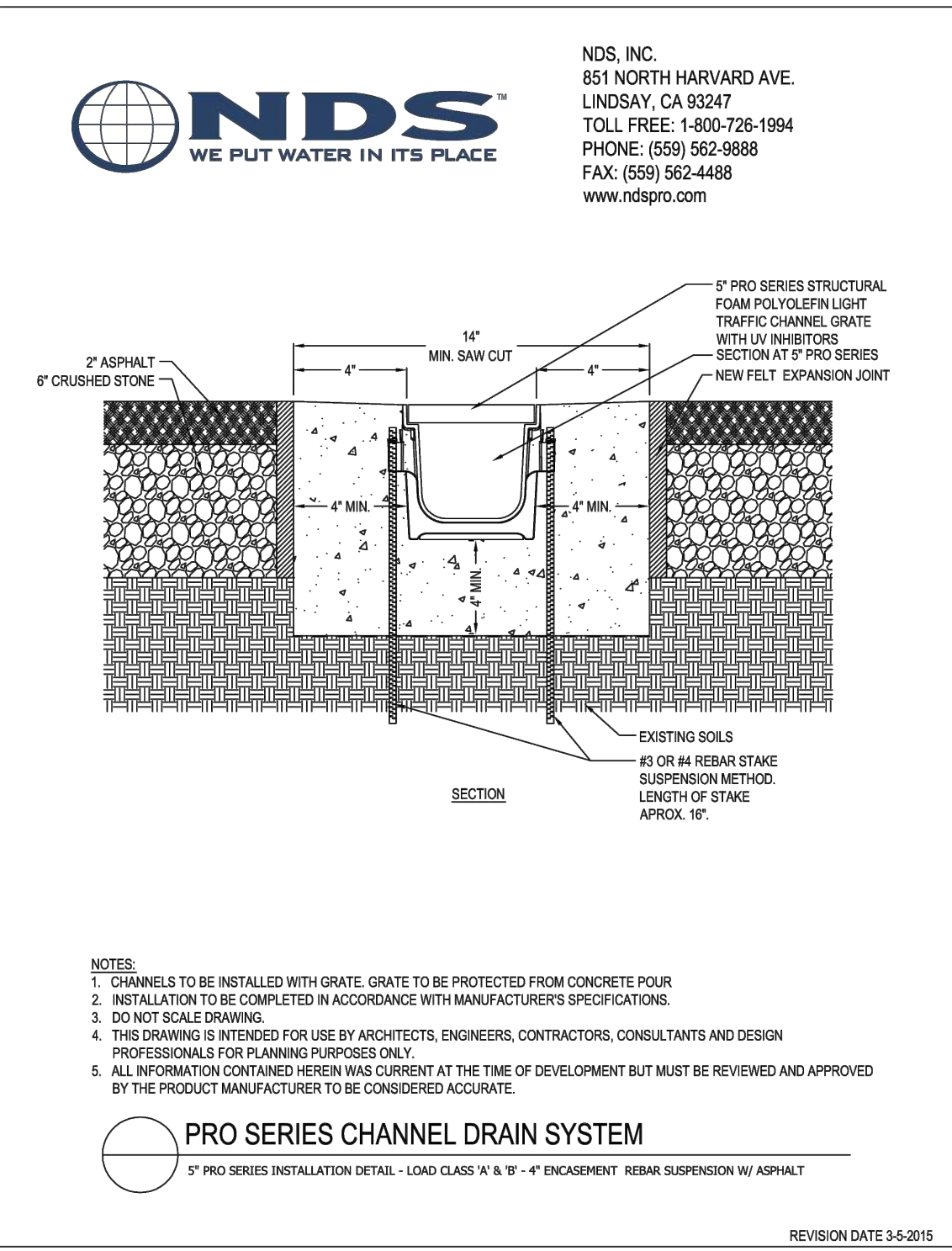


TYPICAL CLEANOUT DETAIL
N.T.S.



LIGHT DUTY CONCRETE SIDEWALK
N.T.S.

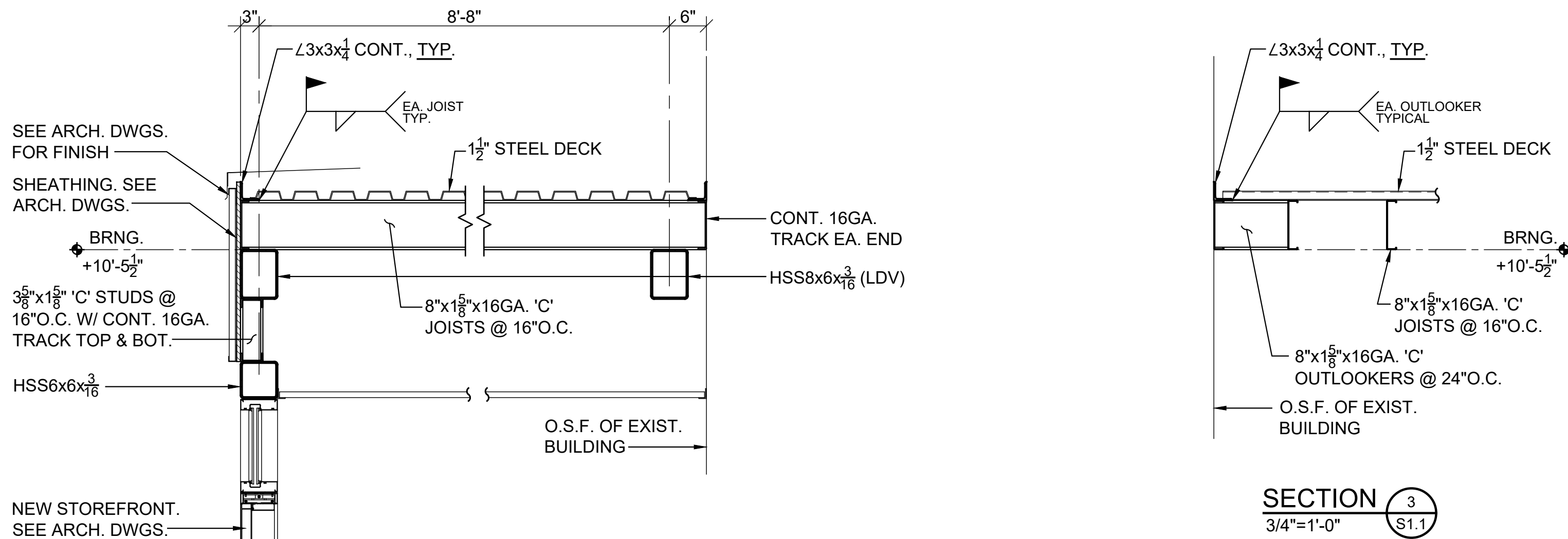
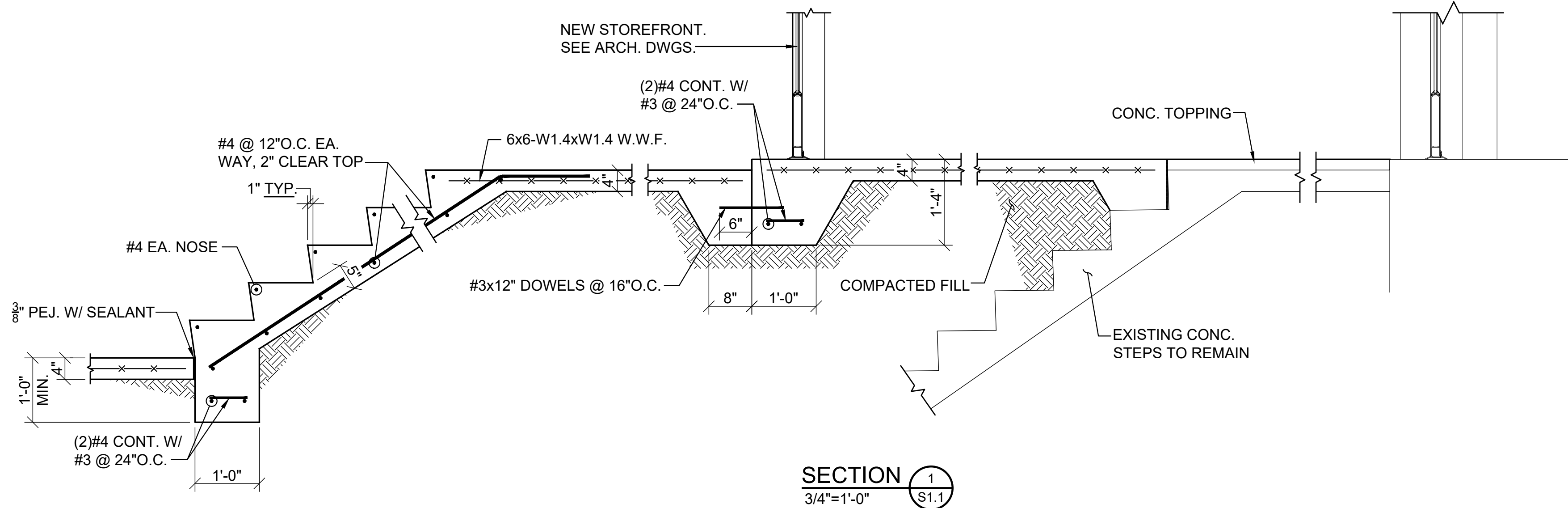
- ① 4.0\"/>
- ② NON-ORGANIC NATIVE MATERIAL COMPACTED TO 98% STANDARD PROCTOR.



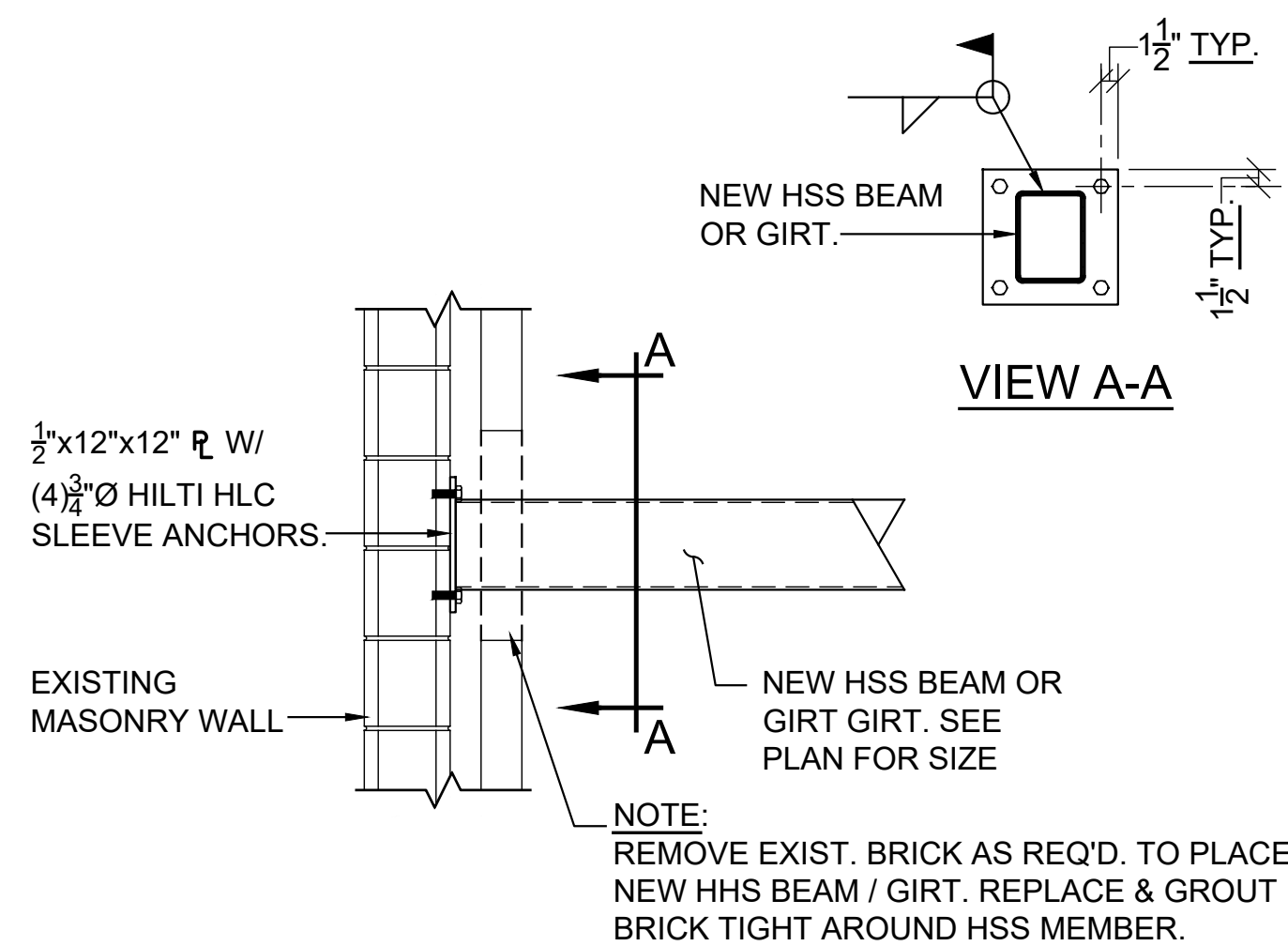
- NOTES:
1. CHANNELS TO BE INSTALLED WITH GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. DO NOT SCALE DRAWING.
 4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
 5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

PRO SERIES CHANNEL DRAIN SYSTEM
12\"/>

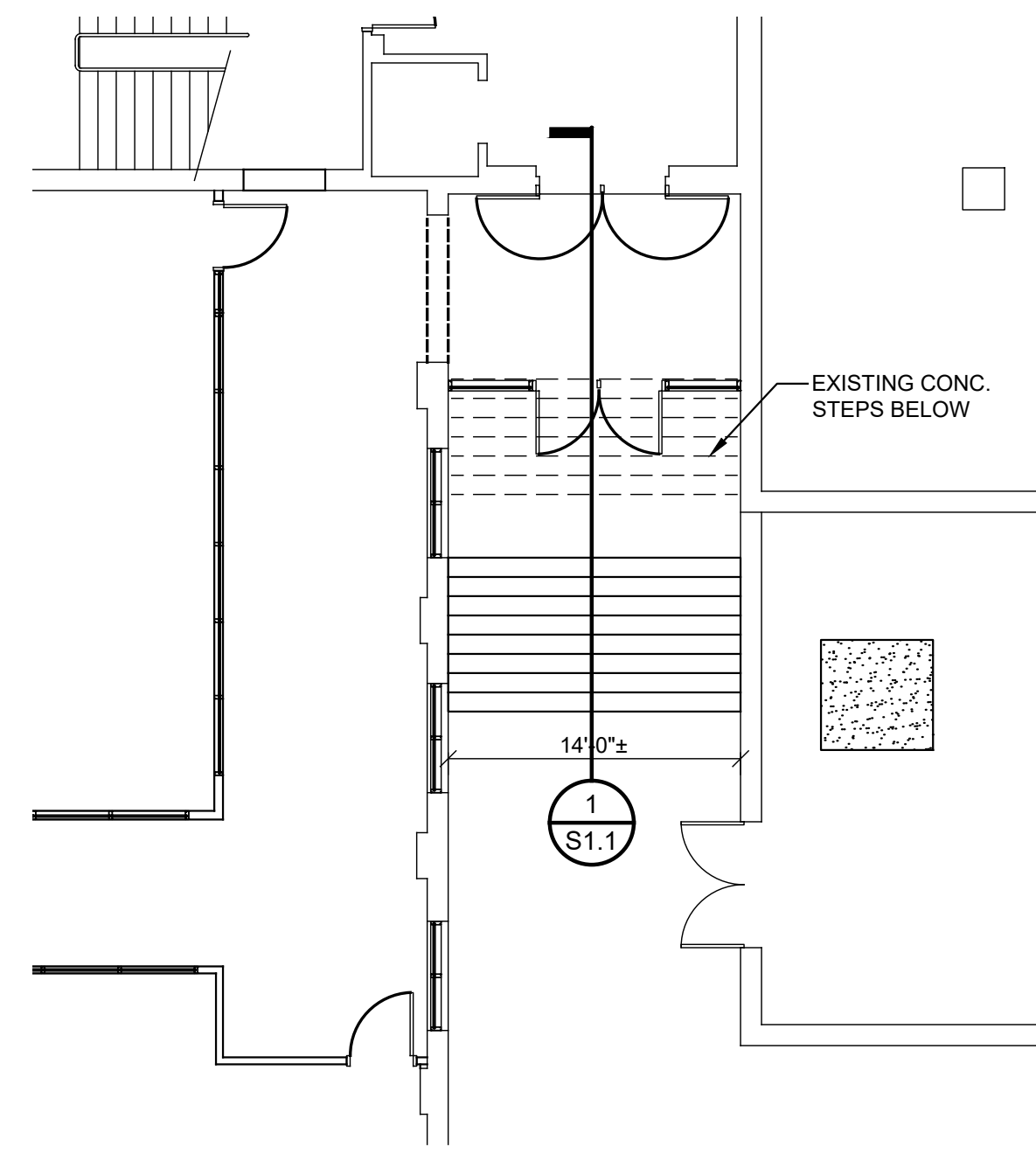
REVISION DATE 3-6-2015



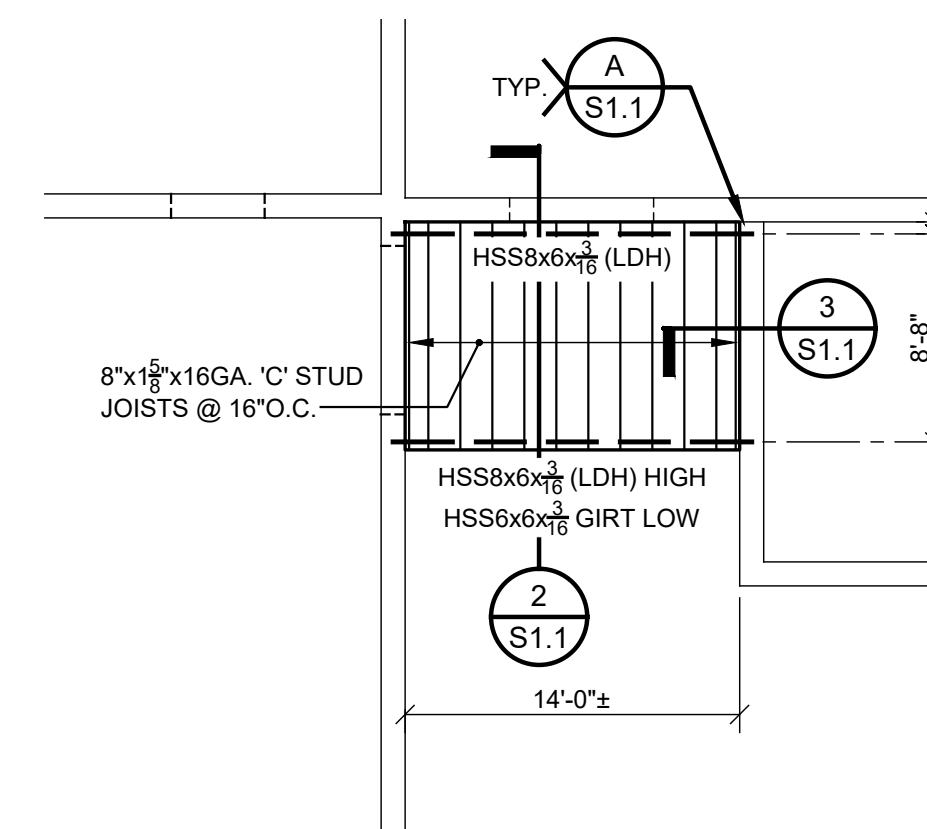
SECTION 2
3/4"=1'-0" S1.1



DETAIL A
3/4"=1'-0" S1.1

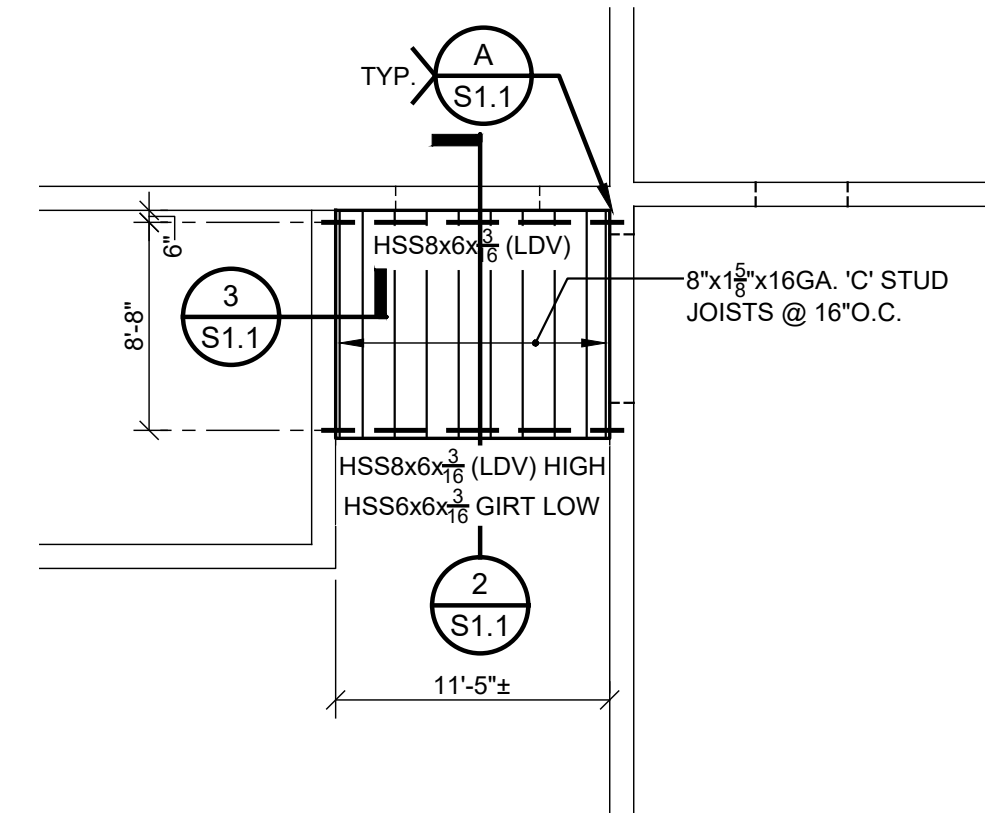


FOUNDATION PLAN -
NEW VESTIBULE 100J
SCALE: 1/8" = 1'-0"



ROOF FRAMING PLAN -
NEW VESTIBULE 100J
SCALE: 1/8" = 1'-0"

ROOF CONSTRUCTION
1 1/2" DEEP, 22 GAGE, WIDE RIB STEEL
DECK W/ THE FOLLOWING MINIMUM
SECTION PROPERTIES PER FOOT
OF WIDTH:
S=0.19 IN.³ I=0.16 IN.⁴ I=0.18 IN.⁴



ROOF FRAMING PLAN -
NEW VESTIBULE 100H
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- FOUNDATION:**
- THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
 - ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
 - FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING OF P = 1500 PSF. THE TESTING AGENCY SHALL VERIFY THAT THE SOILS ARE CAPABLE OF SUSTAINING 1500 PSF PRIOR TO CONCRETE PLACEMENT.
 - ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
 - ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
 - DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
 - PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
 - IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.
 - DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
 - BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
 - BACK FILL BEHIND ALL RETAINING WALLS AND BASEMENT WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.
- CONCRETE:**
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F_c = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 OR ASTM A1064.
 - UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS): FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR WALLS 1 1/2" CLEAR SIDES, BEAMS 1 1/2" CLEAR TO STIRRUPS. FORMED CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
 - LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE. PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
 - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
 - DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.
- MASONRY:**
- PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
 - WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #6 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE.
 - CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8" INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".
 - CONCRETE OR GROUT FILL FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF F_c = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OF LINTEL AT SAME TIME.
 - ANCHOR ALL MASONRY WALLS TO STEEL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
 - UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
 - PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL REINFORCING IN MASONRY WALLS.
 - PROVIDE 48 DIAMETER LAP SPLICE IN VERTICAL MASONRY REINFORCING.
 - PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
 - ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
 - VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED - DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.
- DESIGN LIVE LOADS:**
- ROOF:..... 20 PSF
RISK CATEGORY (PER IBC 2021/ASCE 7-16)..... II
WIND..... INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
ULTIMATE DESIGN WIND SPEED (V_{ult})..... 120 MPH
NOMINAL DESIGN WIND SPEED (V_{ref})..... 90 MPH
WIND EXPOSURE..... C
INTERNAL PRESSURE COEFFICIENTS..... ±0.18
SEISMIC..... INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
SEISMIC IMPORTANCE FACTOR..... I=1.25
MAPPED SPECTRAL ACCELERATION (SHORT-TERM) s_s=0.15
MAPPED SPECTRAL ACCELERATION (1-SECOND)..... S₁=0.076
SITE CLASS.....
SHORT-PERIOD SPECTRAL RESPONSE ACCEL..... S_s=0.13g
1-SECOND SPECTRAL RESPONSE ACCEL..... S₁=0.11g
SEISMIC DESIGN CATEGORY..... B
SEISMIC FORCE-RESISTING SYSTEM..... CMU SHEAR WALLS
DESIGN BASE SHEAR (ULTIMATE)..... 135k
SEISMIC RESPONSE COEFFICIENT..... C_s=0.032
RESPONSE MODIFICATION FACTOR..... R=2
ANALYSIS PROCEDURE..... ASCE 7 (SECT 12.8)
- SNOW..... INTERNATIONAL BUILDING CODE
GROUND SNOW LOAD..... P_g=5 PSF
- COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES:
NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES.
SEE FIGURE 30.4-1 OF ASCE 7-16 FOR INDICATED ZONES.
- FLAT ROOF AREA, A = 10 SF
ZONE 1: 65.5 PSF/17.0 PSF
ZONE 1: 38.2 PSF/17.0 PSF
ZONE 2: 87.7 PSF/17.0 PSF
ZONE 3: 119.5 PSF/17.0 PSF
WALL TRIBUTARY AREA A = 10 SF
ZONE 4: 45.3 PSF/41.7 PSF
CORNER ZONE = 3 FT
- SPECIAL INSPECTIONS:**
ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF IBC SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.



THESE DRAWINGS WERE COMPILED BY THE ARCHITECT FROM THE OWNER'S RECORD DRAWINGS AND FROM ON-SITE OBSERVATIONS TO INDICATE THE BUILDING ARRANGEMENT.

THESE DRAWINGS WERE COMPILED BY THE ARCHITECT FROM THE OWNER'S RECORD DRAWINGS AND FROM ON-SITE OBSERVATIONS TO INDICATE THE BUILDING ARRANGEMENT.

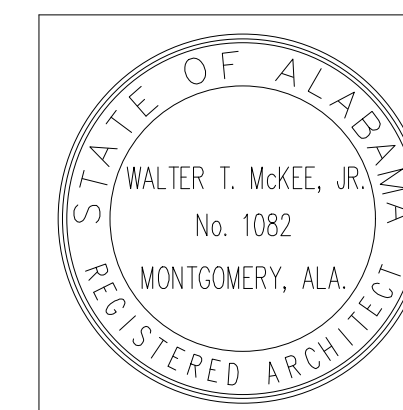
ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE PREMISES AND ALL CONDITIONS THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

DRAWINGS ARE DIMENSIONED FOR BIDDING PURPOSES ONLY. CONTRACTORS SHALL MEASURE ALL EXISTING WORK AT THE PREMISES AND VERIFY ALL DIMENSIONS NEEDED TO PROPERLY INTERFACE IMPROVEMENTS WITH ALL EXISTING ELEMENTS WHICH ARE TO REMAIN.

<u>SYMBOL</u>	<u>DESCRIPTION</u>
NOTE: REFER TO CONSULTANT DRAWINGS FOR ADDITION DEMOLITION NOTES	
----	EXISTING TO REMAIN
----	EXISTING TO BE REMOVED
D1	EXISTING DOOR AND FRAME TO BE REMOVED IN ITS ENTIRETY.
D2	EXTENTS OF EXISTING WALL TO BE REMOVED IN ITS ENTIRETY.
D3	EXISTING FLOOR FINISH AND BASE TO REMOVED IN ITS ENTIRETY. PREP AS REQUIRED FOR INSTALLATION OF NEW FLOOR FINISH.
D4	EXTENTS OF EXISTING WALL TO BE REMOVED TO ACCOMMODATE NEW EXTERIOR DOOR AND FRAME.
D5	EXTENTS OF EXISTING WALL TO BE REMOVED TO THE EXTENTS REQUIRED TO PROVIDE POSITIVE DRAINAGE TO NEW TRENCH DRAIN.
D6	EXISTING BASKETBALL GOLF AND STRUCTURE TO BE REMOVED IN ITS ENTIRETY. PATCH WALL TO MATCH EXISTING.
D7	EXISTING SCOREBOARD AND STRUCTURE TO BE REMOVED IN ITS ENTIRETY. PATCH WALL TO MATCH EXISTING.
D8	EXISTING UNIT HEATERS TO ASSOCIATED PIPING TO BE REMOVED IN ITS ENTIRETY.



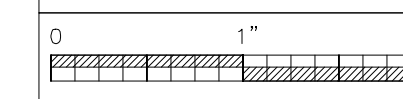
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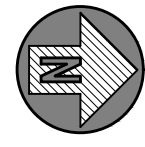


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DRAWN:
DATE: 09.22.26
REVISIONS

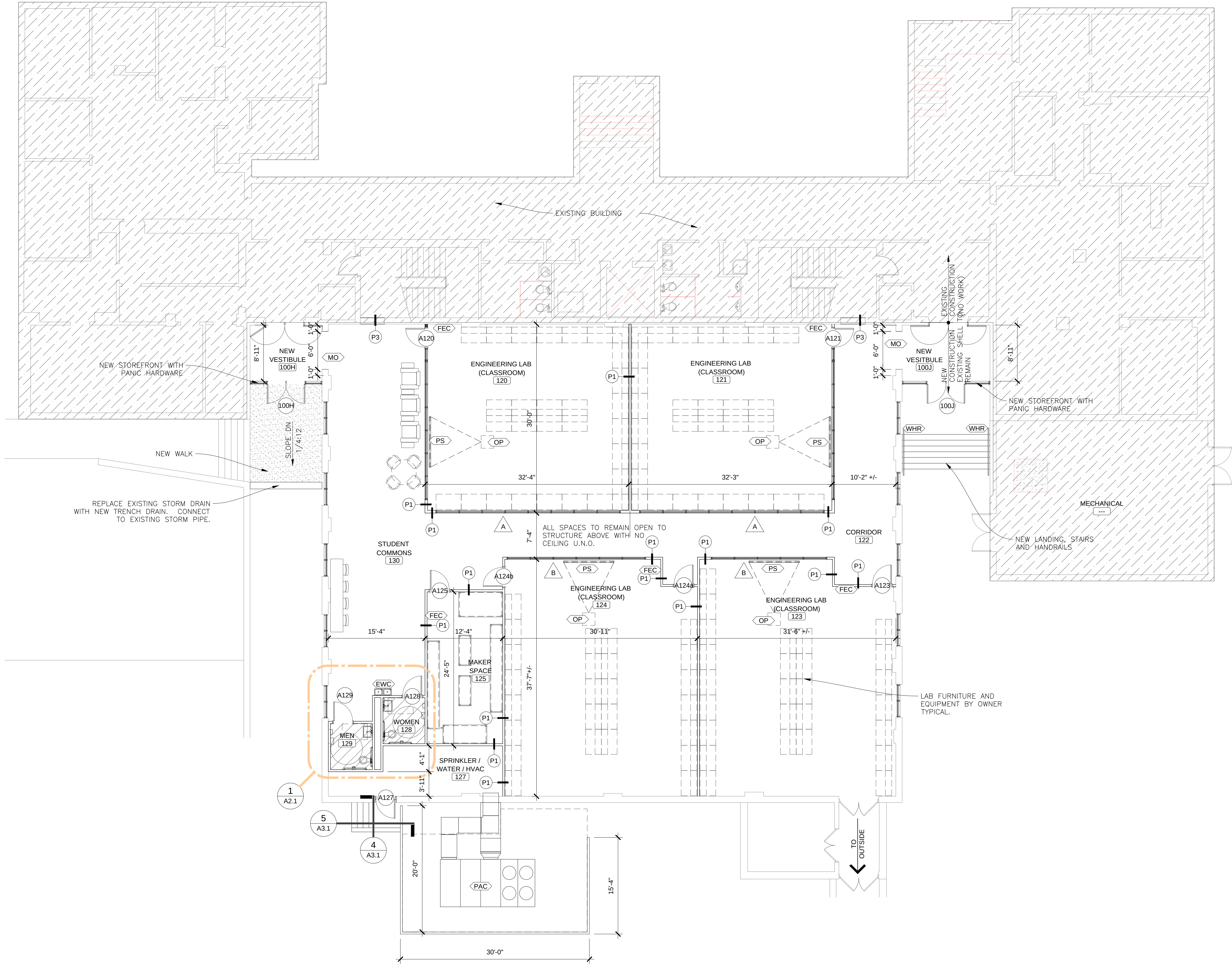
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MKA-26-042-00
SHEET NO:

A0.1





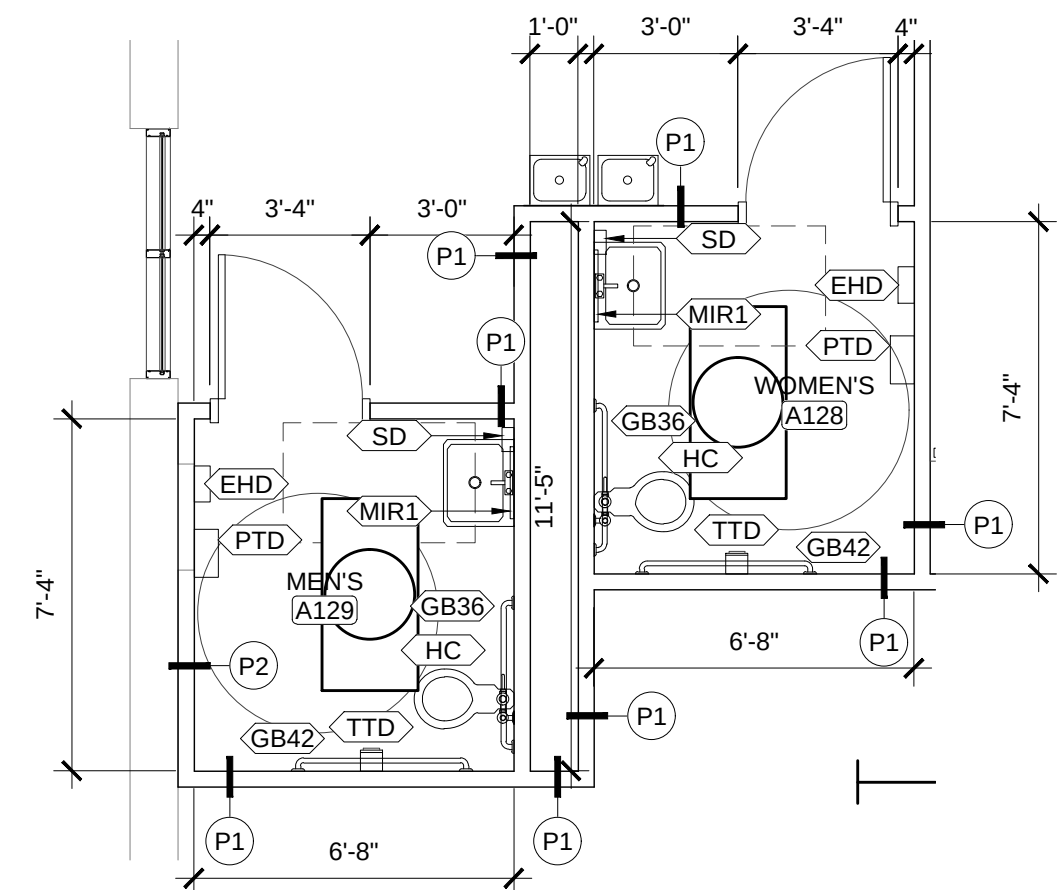
SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



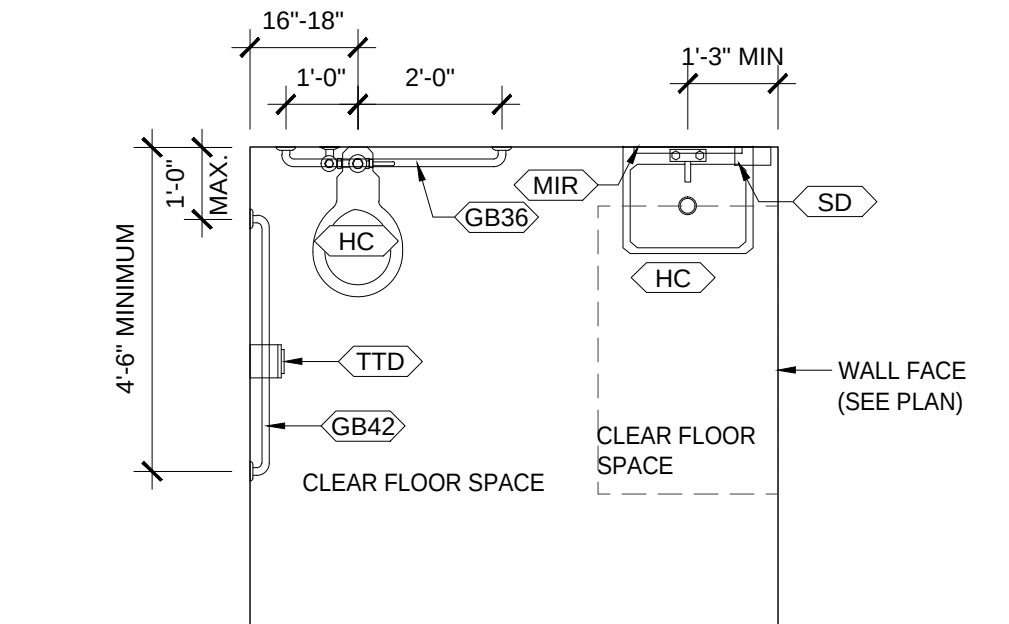
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
	EXISTING BUILDING - NO WORK IN THIS AREA
	SCHEDULED DOOR AND FRAME
	SCHEDULED WINDOW UNIT
	SCHEDULED ROOM NAME AND NUMBER
	SECTION / DETAIL SYMBOL
	BUILDING SECTION SYMBOL
	WALL PARTITION TYPES
	ELECTRIC WATER COOLER (SEE DETAIL A8.1)
	FIRE EXTINGUISHER CABINET (SEE DETAIL A8.1)
	PACKAGE UNIT (SEE MECHANICAL)
	CONCRETE EQUIPMENT PAD
	WALL MOUNTED PREFINISHED ALUMINUM HANDRAIL
	CEILING MOUNTED PROJECTOR (SEE ELECTRICAL)
	WALL MOUNTED MOTORIZED PROJECTOR SCREEN
	MASONRY OPENING

TOILET ACCESSORIES LEGEND	
KEYNOTE	DESCRIPTION
	TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (SEE SPECS) (BY OWNER)
	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS) (BY OWNER)
	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS) (BY OWNER)
	36" GRAB BAR MOUNTED 33"-36" AFF TO THE TOP OF THE BAR (SEE SPECS)
	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL & TOILET PARTITION, MOUNTED 33"-36" AFF TO THE TOP OF BAR (SEE SPECS)
	18" X 36" MIRROR TO BE MOUNTED WITH THE BOTTOM EDGE (41" MAX) AFF (ABOVE LAVATORY) (SEE SPECS)
	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE SPECS)



1 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



TYPICAL TOILET ROOM
SCALE: 3/8" = 1'-0"

RENOVATION
OF
WRIGHT HALL
WRIGHT HALL 601 TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36061
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36061

FLOOR PLANS

SHEET TITLE:

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

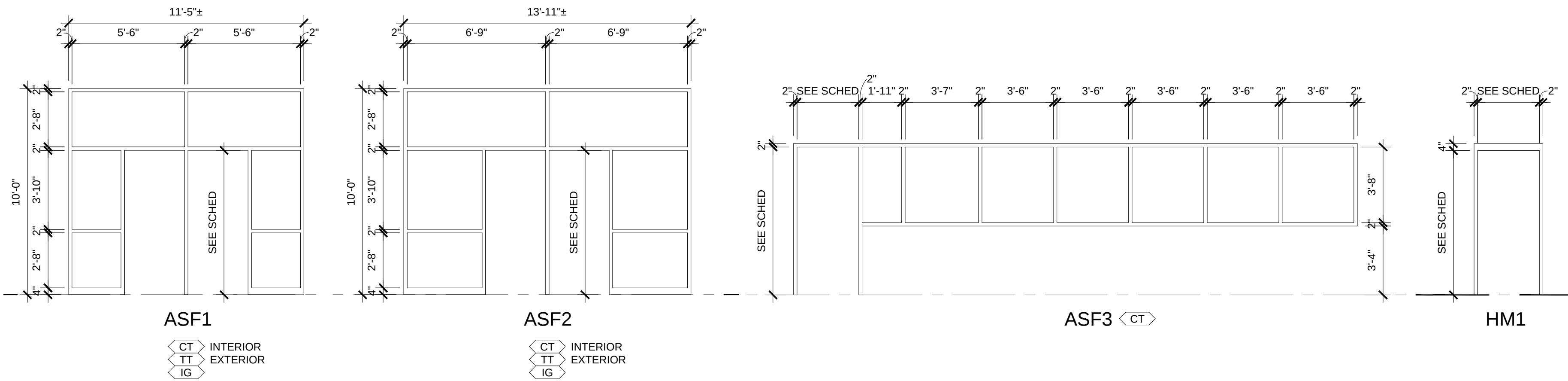
PROJ. MGR.: FGH
DRAWN: --
DATE: 09.22.26
REVISIONS
1 09.18.26

JOB NO.
MKA-26-042-00
SHEET NO.
A2.1

0 1' 2'

- Z:\2026\MKA-26-042-00 Renovations Wright Hall Troy University\CAD Drawings\Architectural\A2.X Series (CP Roof Canopy Schedules.Details).dwg
- Tuesday, September 22, 2026 3:42:46 PM

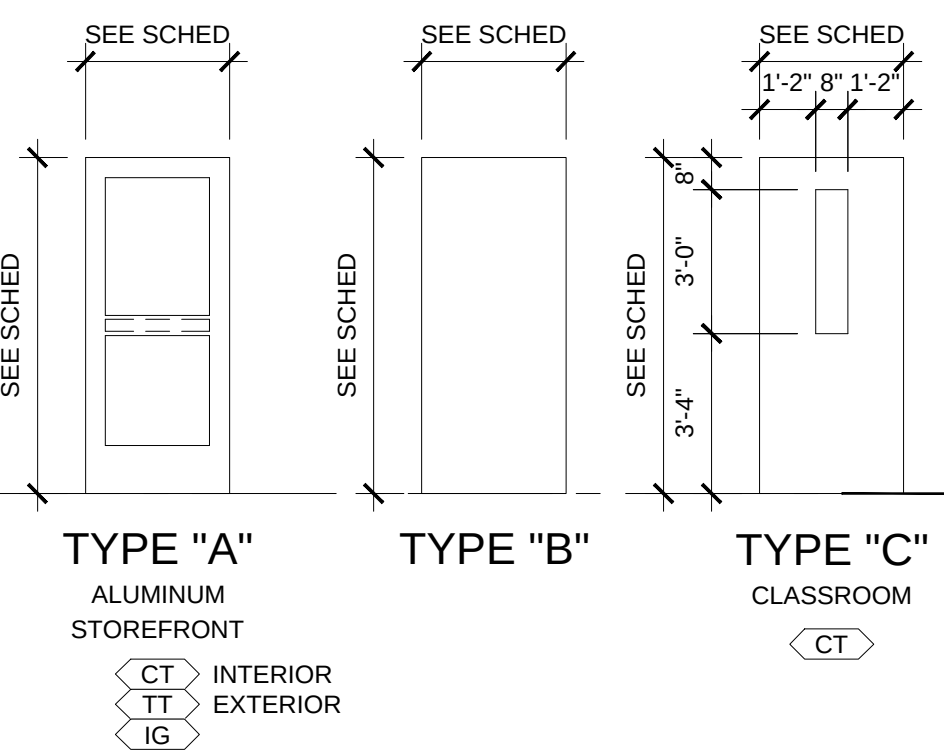
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DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS		SIGNAGE	REMARKS
										HEAD	JAMB		
100H	3'-0" PAIR	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF1	FACTORY	---	3/A2.2	4/A2.2	---	---
100J	3'-0" PAIR	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF2	FACTORY	---	3/A2.2	4/A2.2	---	---
A120	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	9/A2.2	10/A2.2	CLASSROOM	---
A121	3'-0"	7'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	ASF3	FACTORY	---	9/A2.2	10/A2.2	CLASSROOM	---
A123	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	FACTORY	HM1	PAINT	---	5/A2.2	6/A2.2	CLASSROOM	---
A124a	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	FACTORY	HM1	PAINT	---	5/A2.2	6/A2.2	CLASSROOM	---
A124b	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	FACTORY	HM1	PAINT	---	5/A2.2	6/A2.2	CLASSROOM	---
A125	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	FACTORY	HM1	PAINT	---	5/A2.2	6/A2.2	MAKER SPACE	---
A127	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	B	PAINT	HM1	PAINT	---	7/A2.2	8/A2.2	---	SEE SPECS FOR SPECIAL SIGNAGE
A128	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	FACTORY	HM1	PAINT	---	5/A2.2	6/A2.2	WOMEN'S	---
A129	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	FACTORY	HM1	PAINT	---	5/A2.2	6/A2.2	MEN'S	---

TYPICAL DOOR FRAME TYPES

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

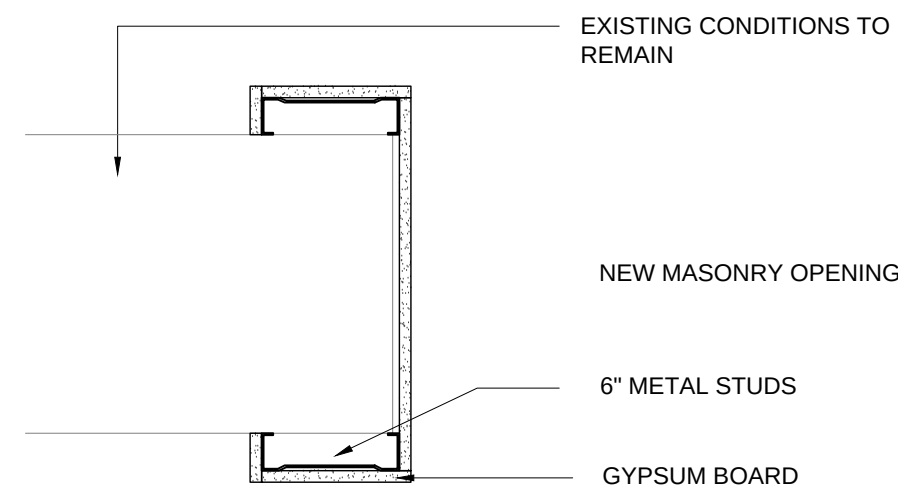
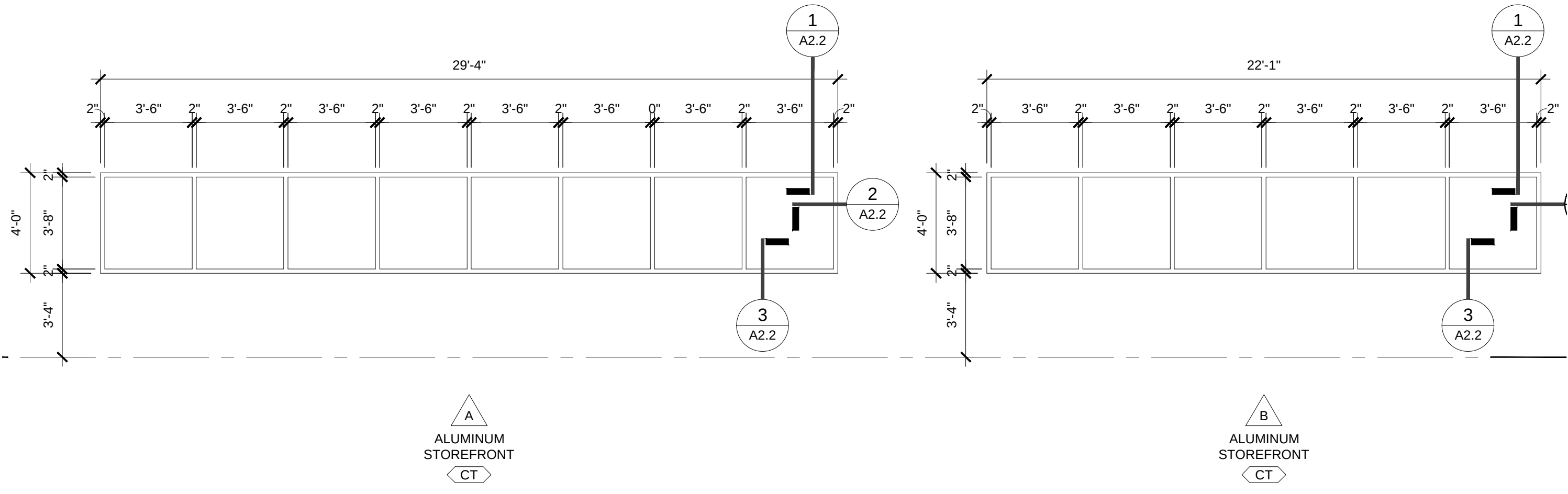


TYPICAL DOOR TYPES

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

TYPICAL WINDOW TYPES

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



11 MASONRY OPENING DETAIL

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

JAMB

GLAZING SCHEDULE	
SYMBOL	DESCRIPTION
CT	CLEAR TEMPERED
IG	INSULATING GLASS
TT	TINTED TEMPERED
FG	FIRE GLASS
IMP	IMPACT RESISTANT
SPG	SPANDREL GLASS

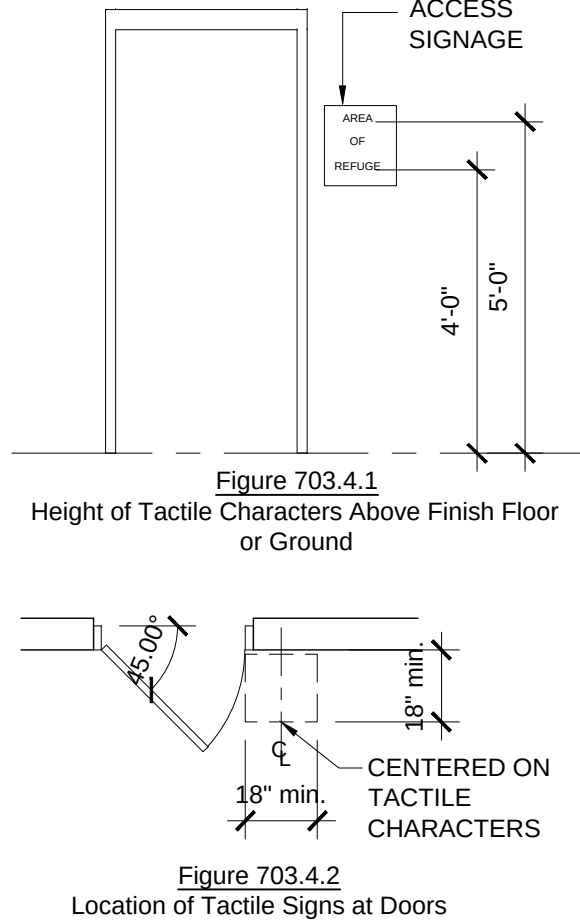


Figure 703.4.2
Location of Tactile Signs at Doors

SIGNAGE NOTES:

FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER. FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED. FURNISH INDIVIDUAL PLASTIC LAMINATE RESTROOM SIGNS FOR DOOR(S) AND HANDICAPPED ACCESS SIGN TO BE PLACED ON WALL BESIDE RESTROOM DOOR(S) - SEE DIAGRAM.

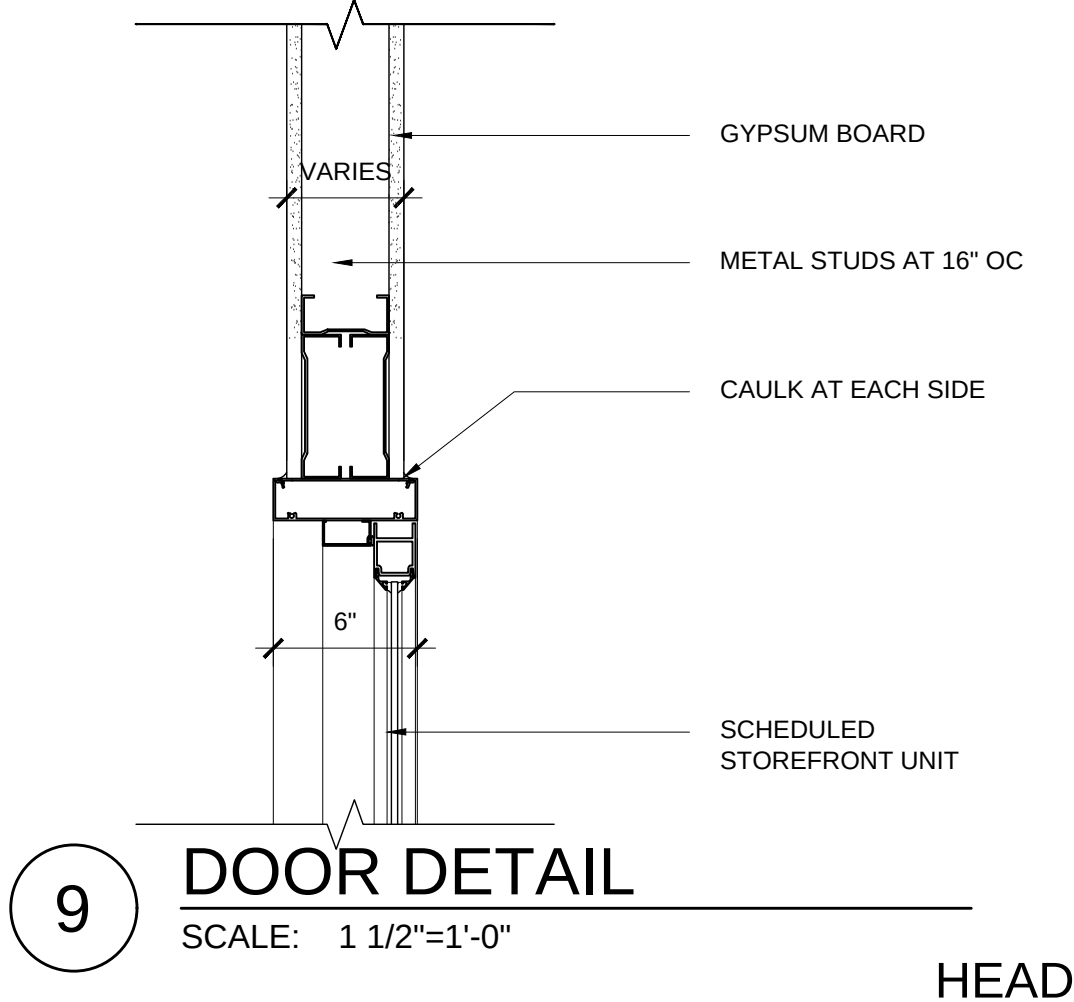
LABELED DOOR AND FRAME NOTE:

HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITER'S LABORATORIES OR WARNOCKHERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS, LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE"

SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16 INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

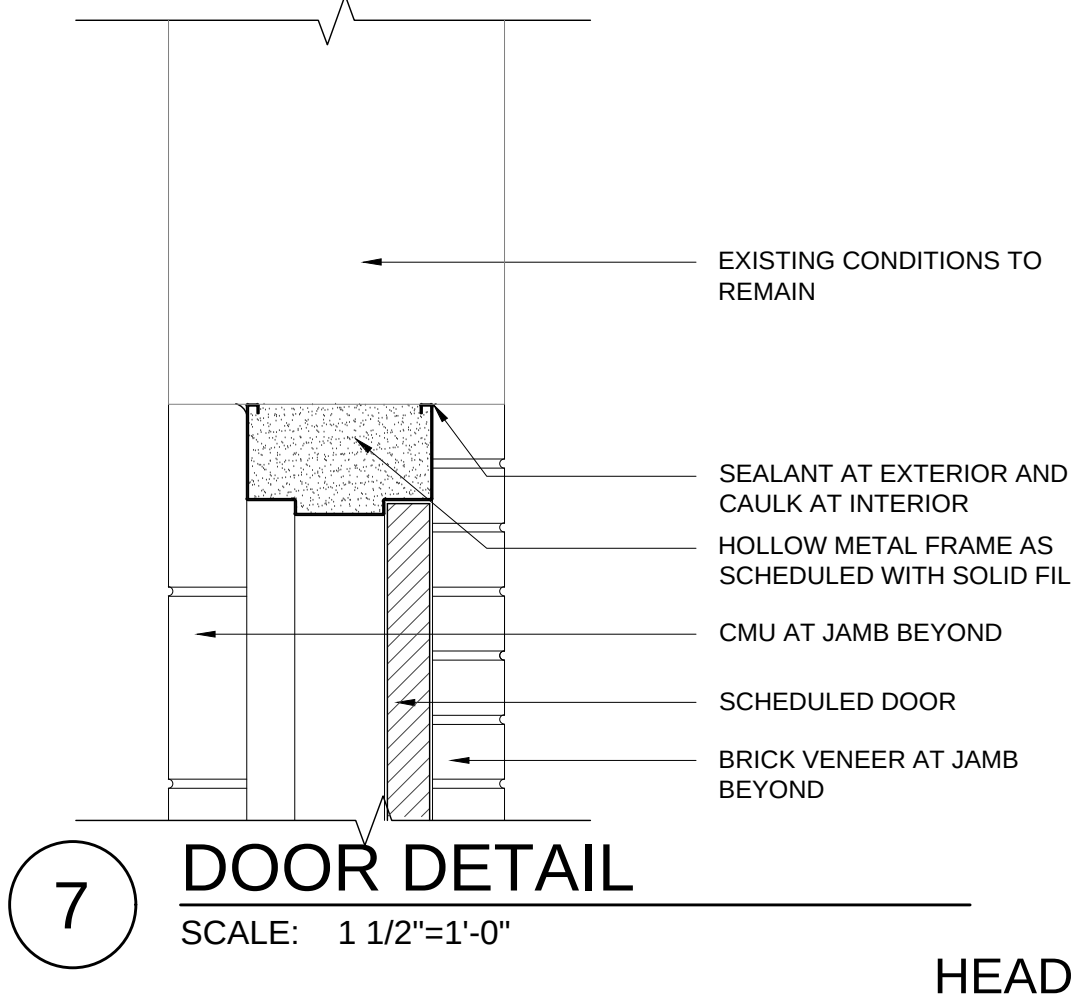
703.4.2 LOCATION
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT THE CLEAR FLOOR SPACE OF 18 INCHES (455 mm) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSEST POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.



9 DOOR DETAIL

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

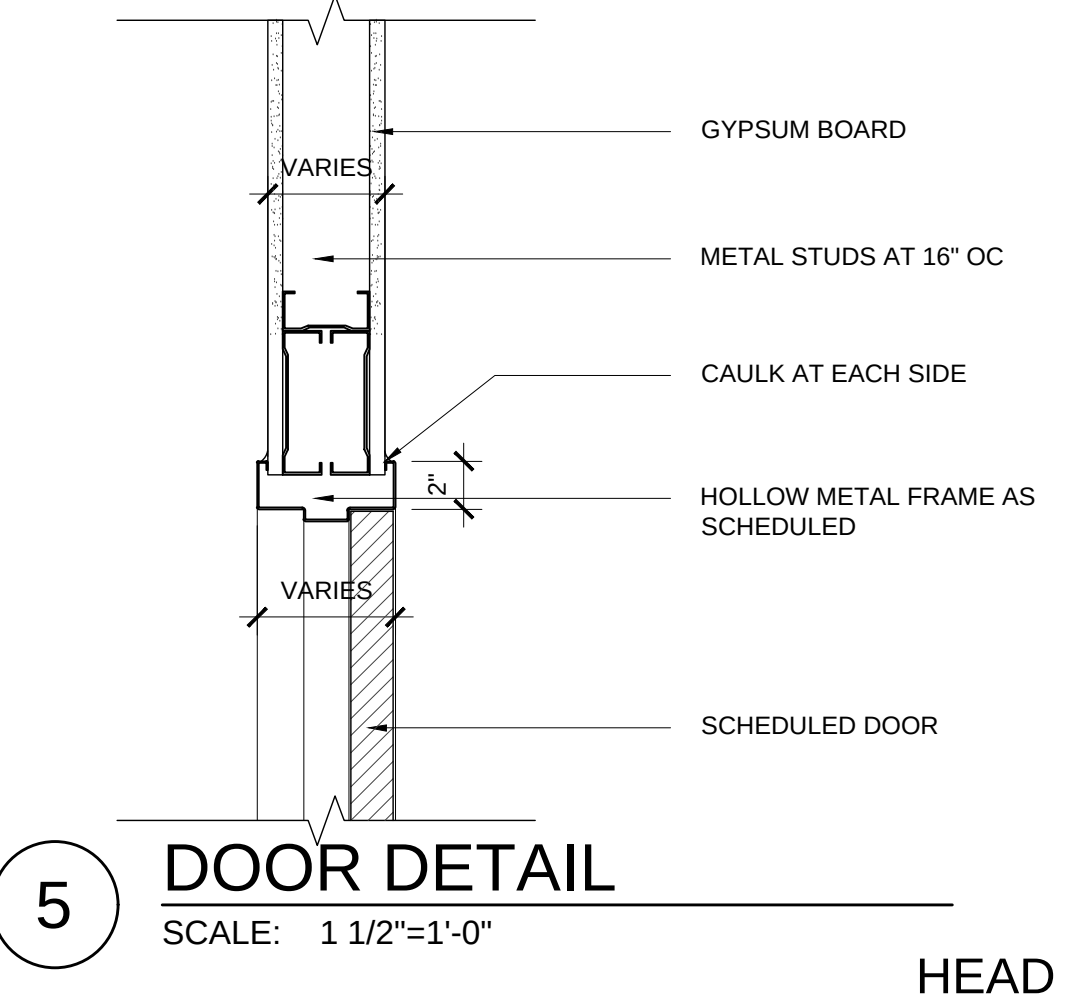
HEAD



7 DOOR DETAIL

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

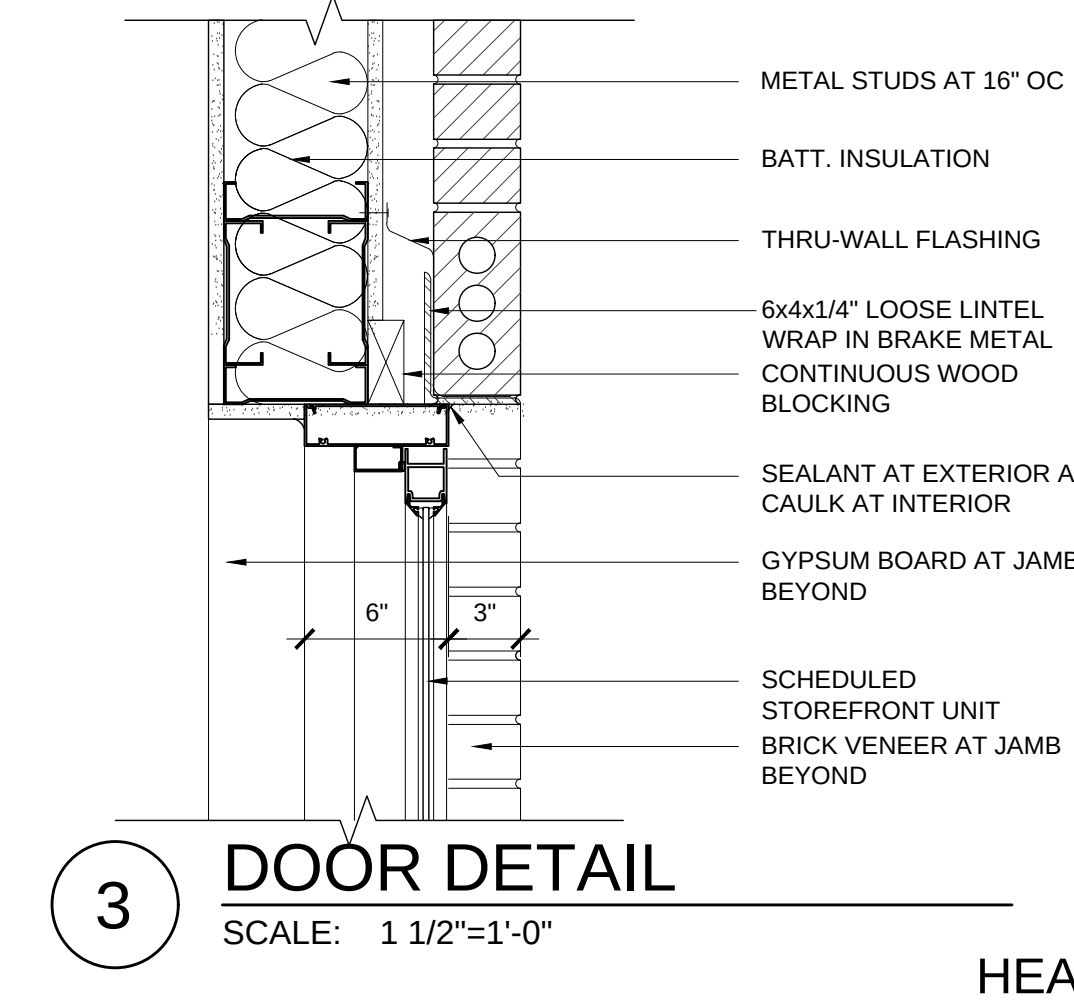
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5 DOOR DETAIL

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

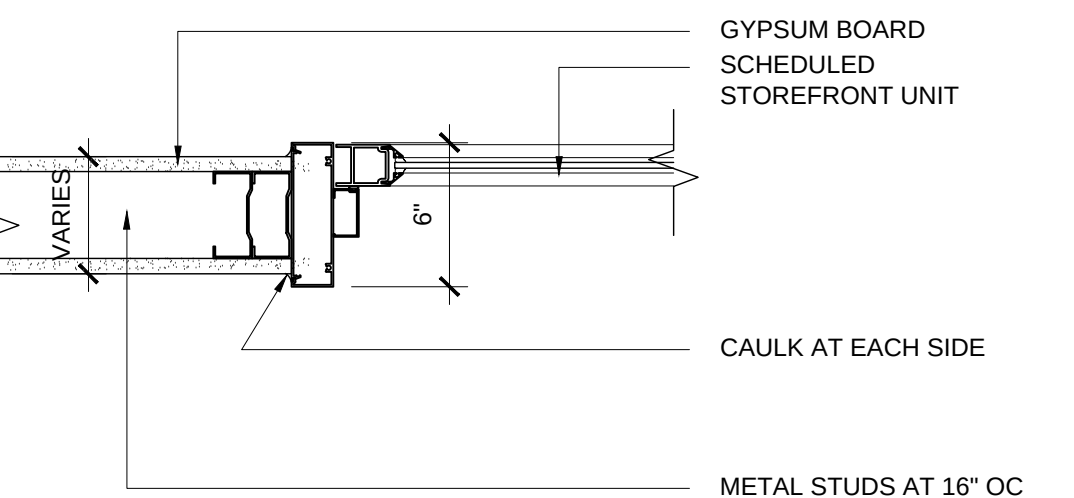
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3 DOOR DETAIL

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

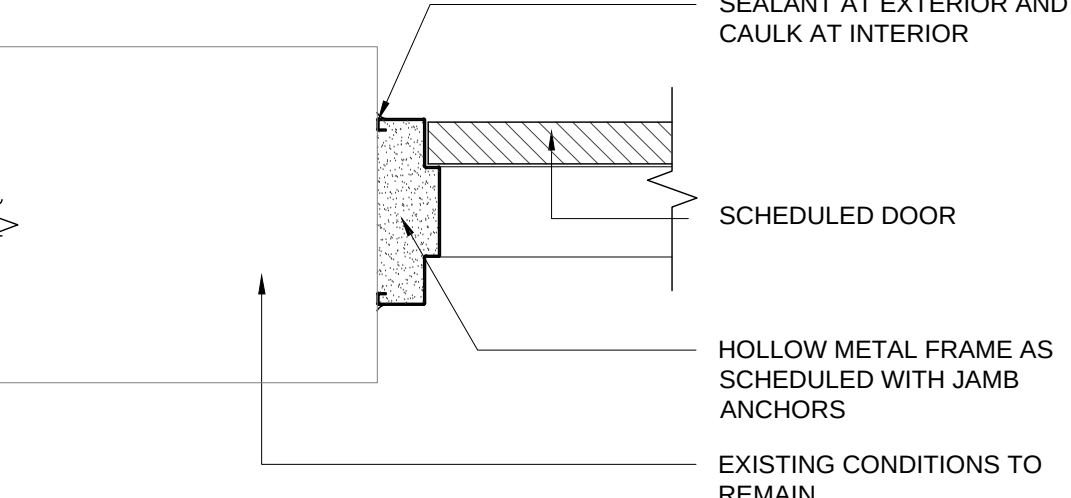
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10 DOOR DETAIL

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

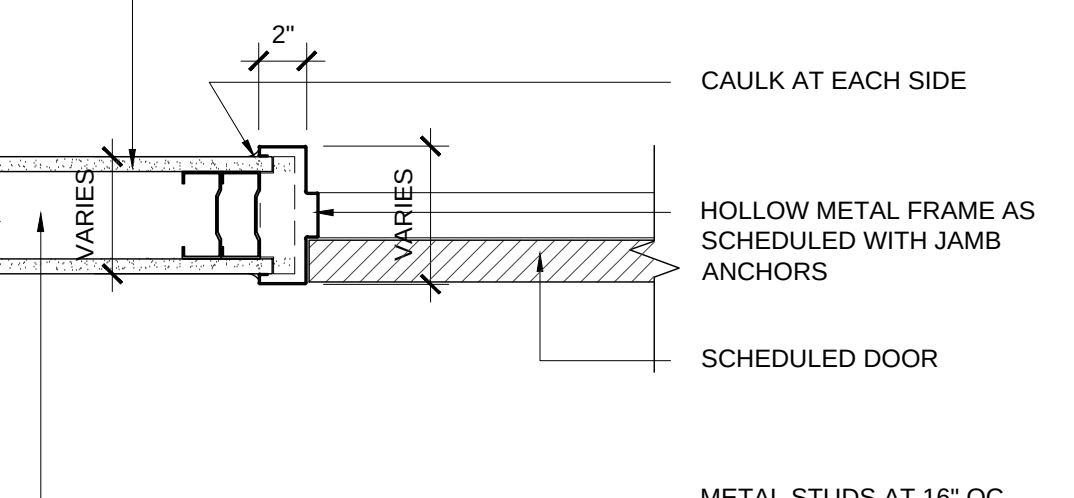
JAMB



8 DOOR DETAIL

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

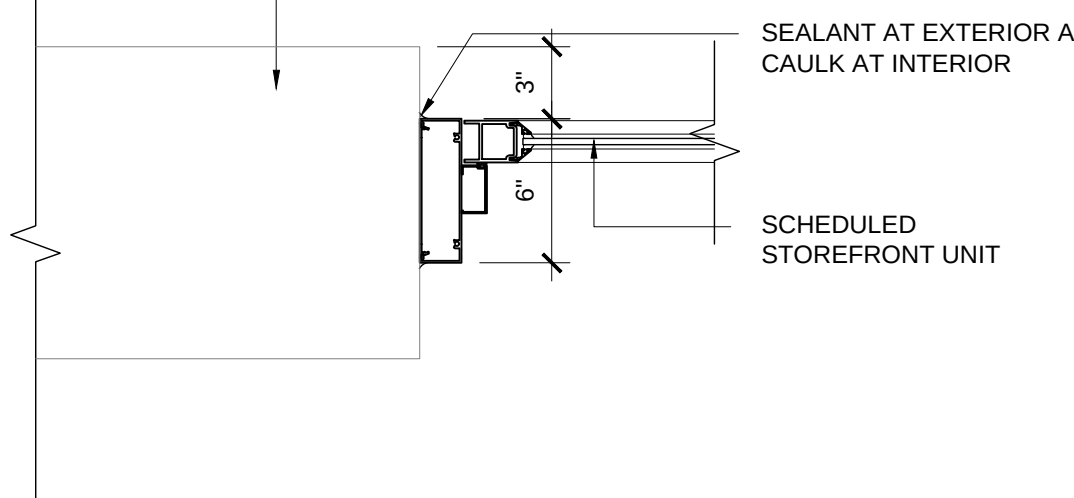
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6 DOOR DETAIL

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

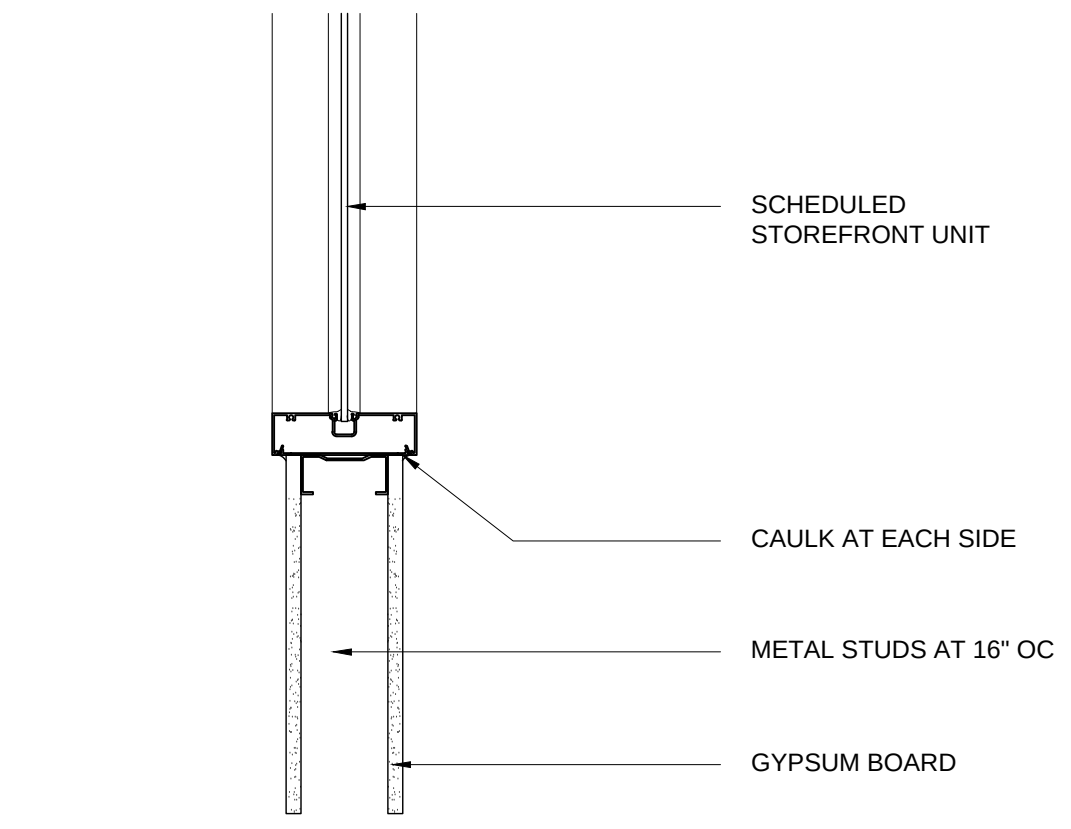
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4 DOOR DETAIL

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

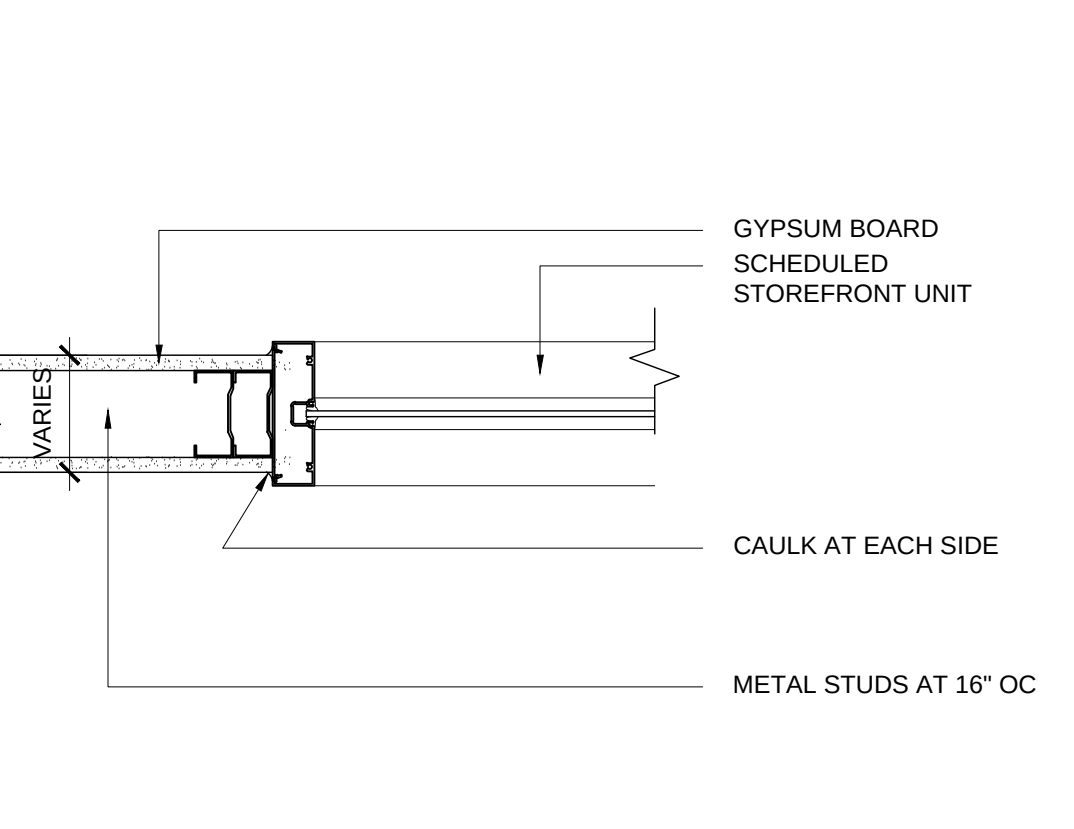
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3 WINDOW DETAIL

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

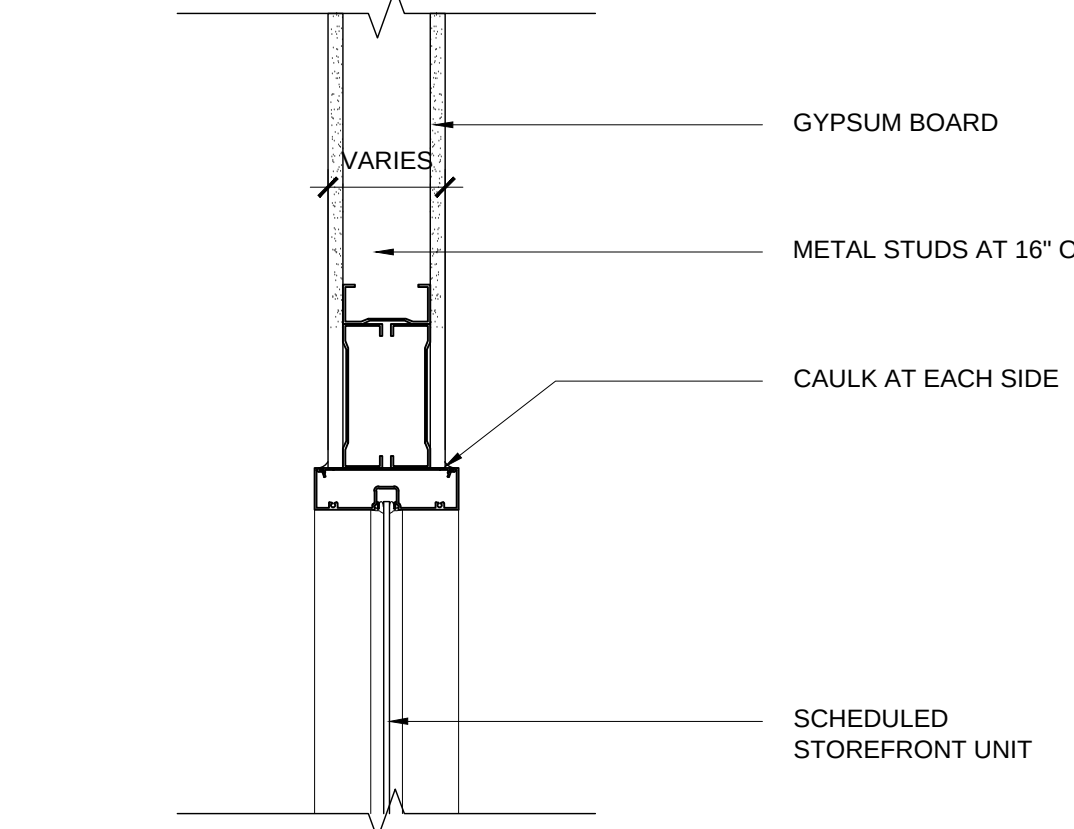
SILL



2 WINDOW DETAIL

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

JAMB



1 WINDOW DETAIL

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

HEAD

LATHAN
McKEE
ARCHITECTS

RENOVATION
OF
WRIGHT HALL
WRIGHT HALL 00 TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36081
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36081

SHEET TITLE: DOOR SCHEDULE / DETAILS / TYPES

PROJ. MGR.: FGH

DRAWN:

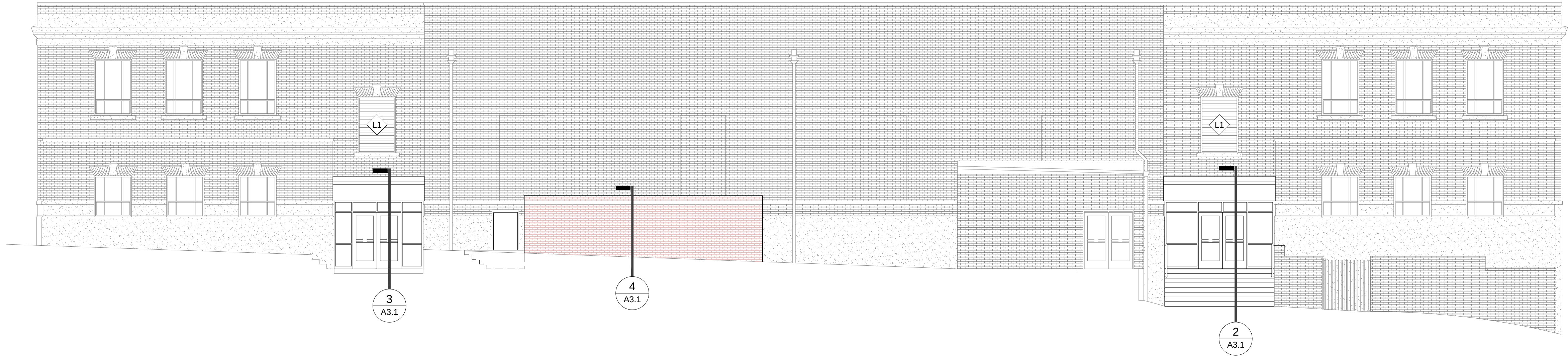
DATE: 09.22.26

REVISIONS

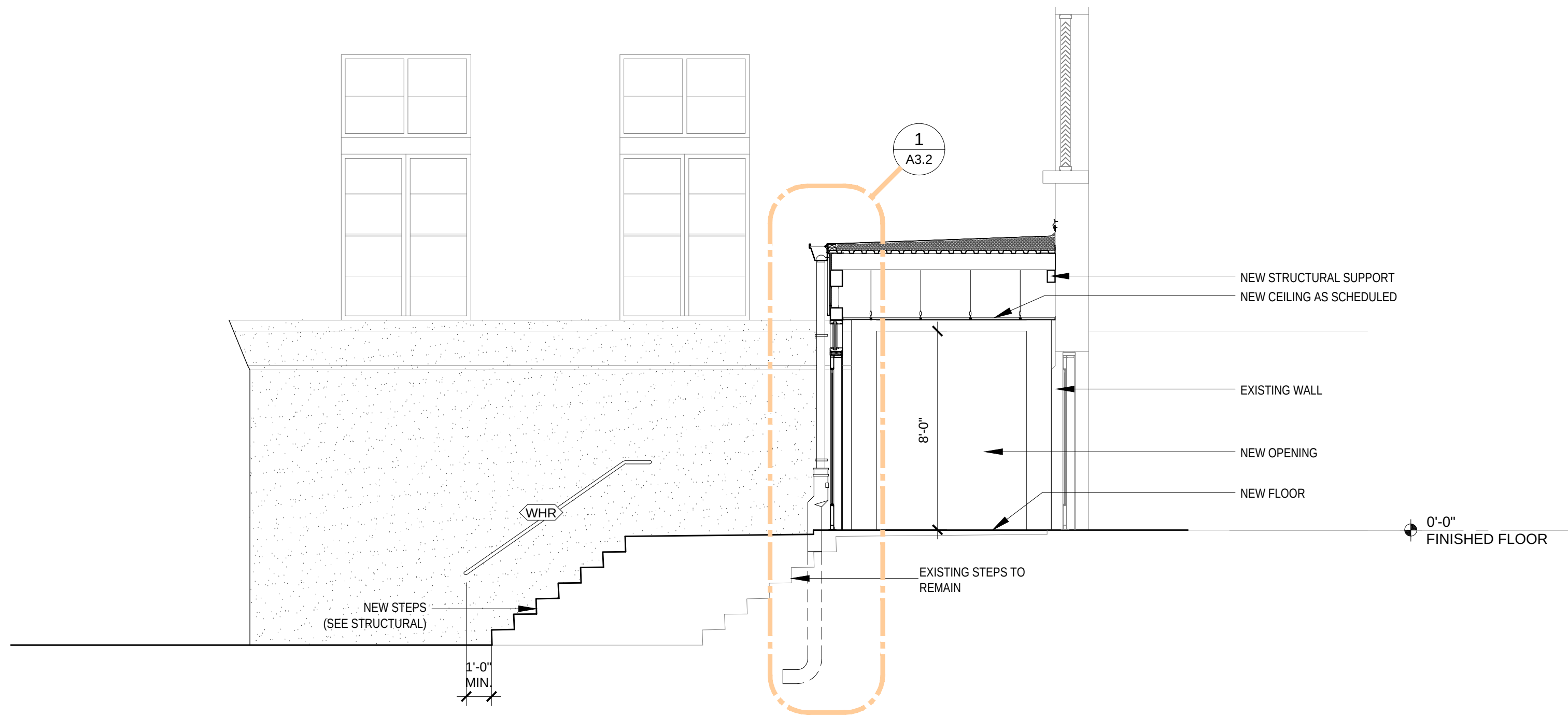
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MKA-26-042-00

SHEET NO:
A2.2

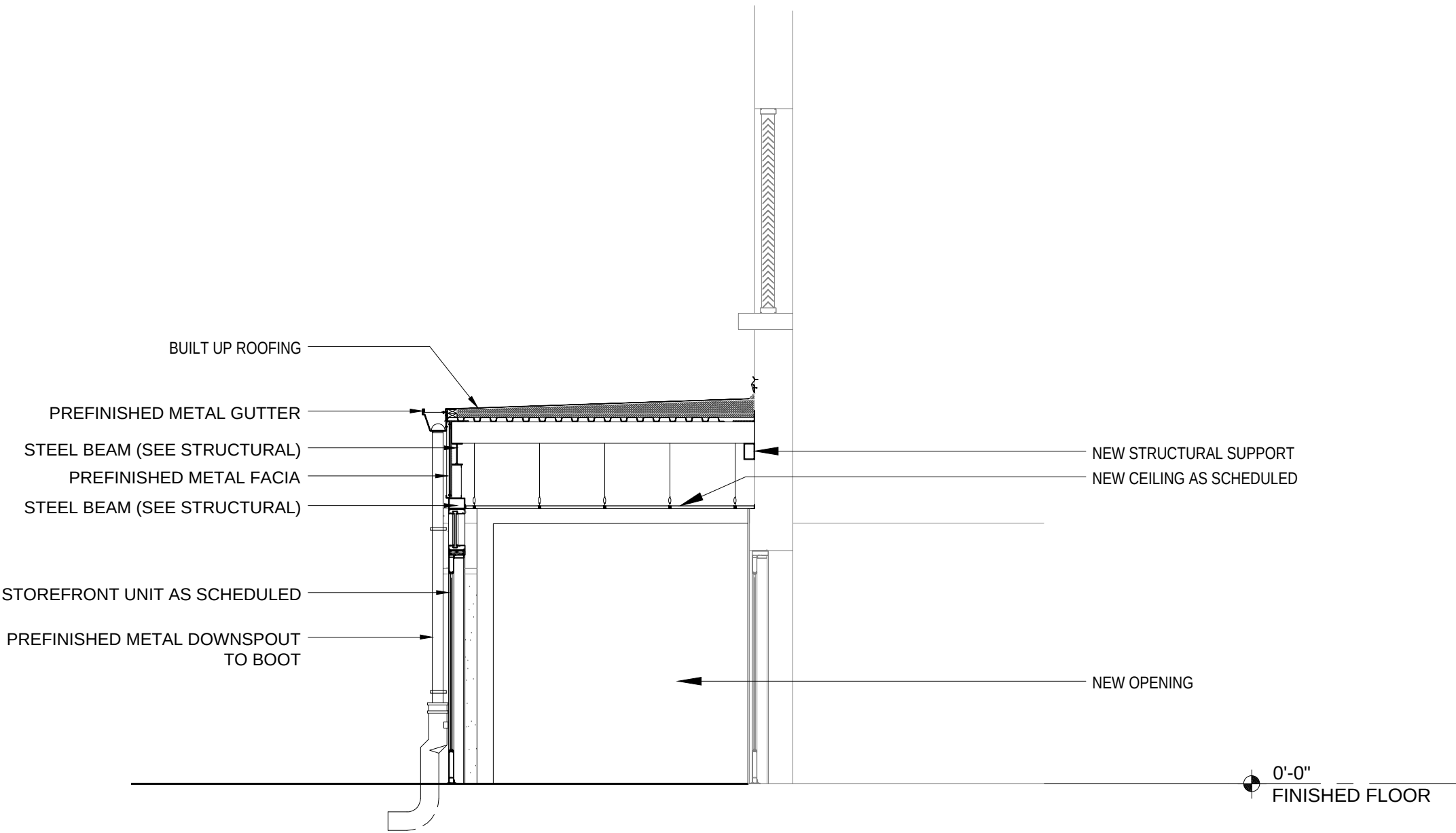
EXTERIOR ELEVATION LEGEND	
SYMBOL	DESCRIPTION
	BUILDING SECTION SYMBOL
	SECTION / DETAIL SYMBOL
	EXISTING LOUVERS
	MASONRY CONTROL JOINT LOCATIONS
	WALL MOUNTED PREFINISHED ALUMINUM HANDRAIL
	BRICK VENEER



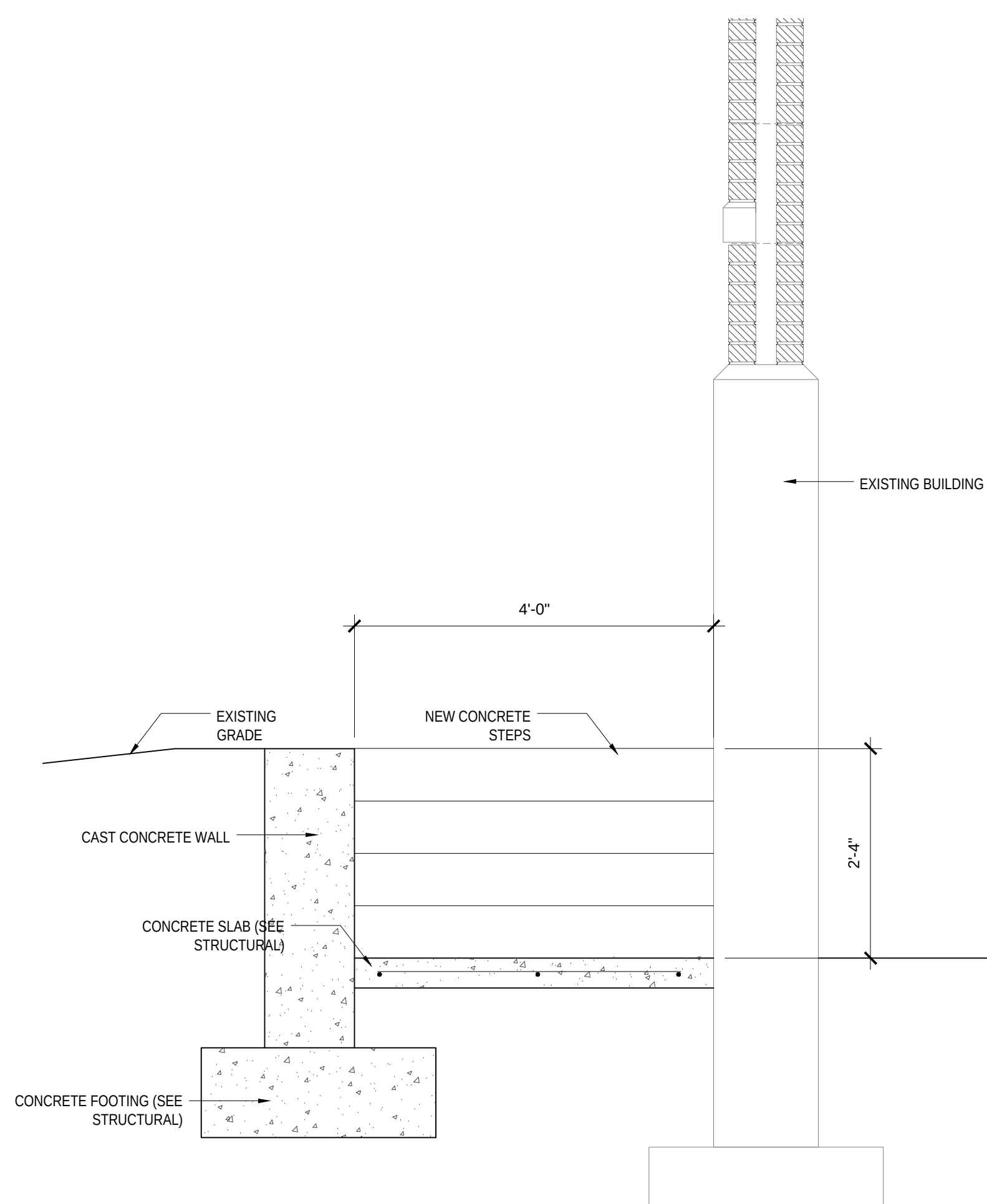
1 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"



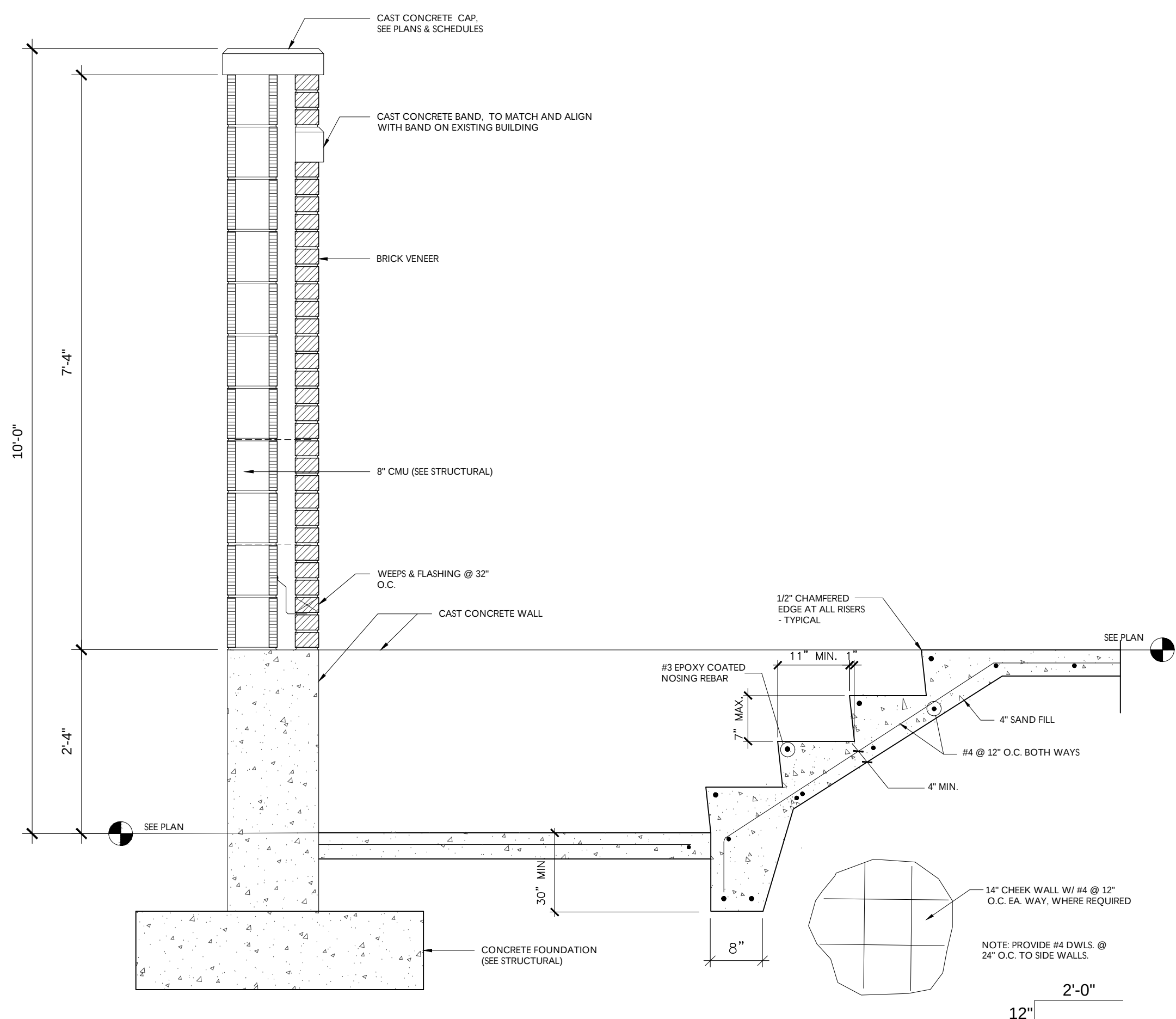
2 SECTION AT ENTRANCE
SCALE: 1/4" = 1'-0"



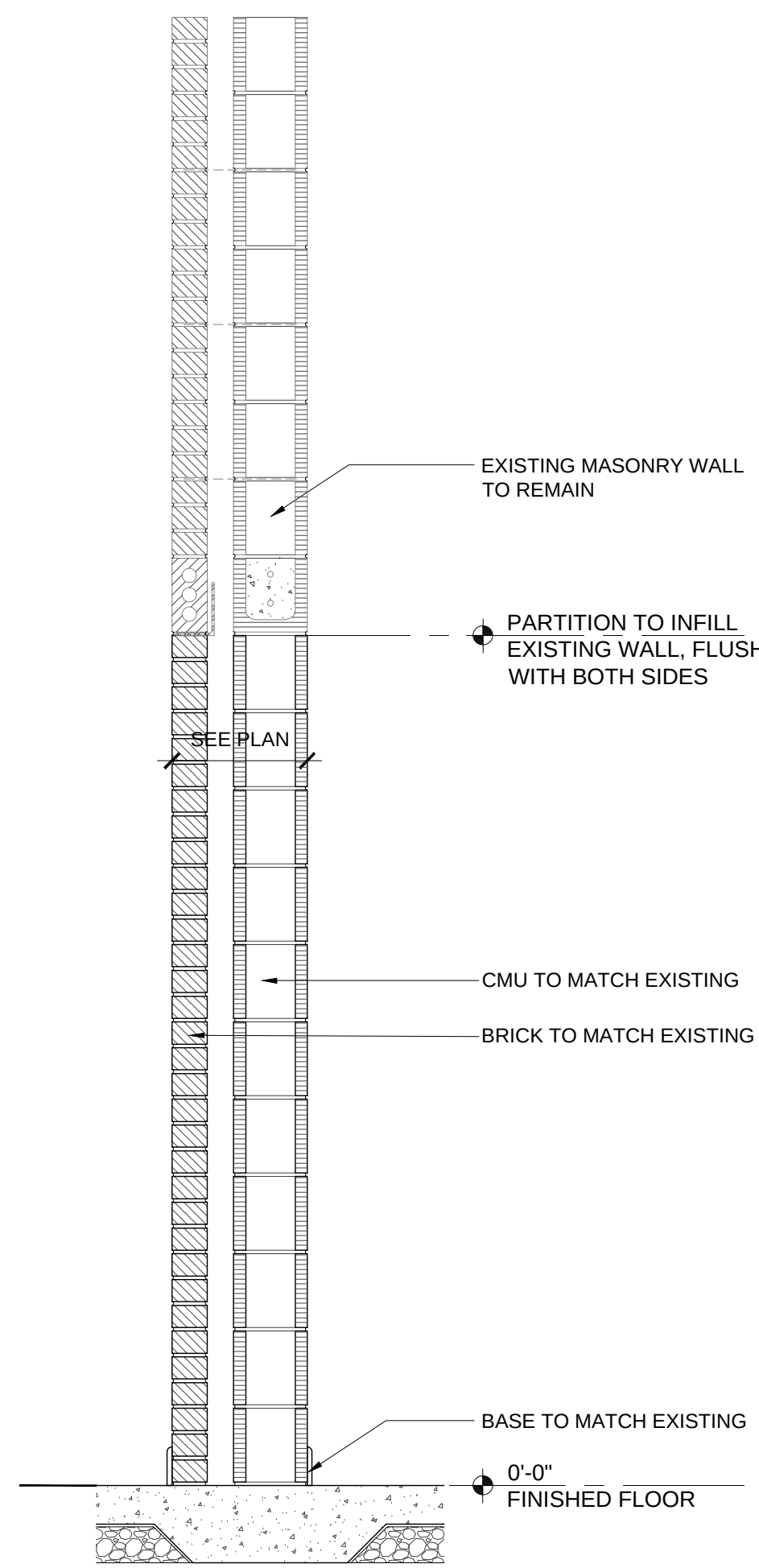
3 SECTION AT ENTRANCE
SCALE: 1/4" = 1'-0"



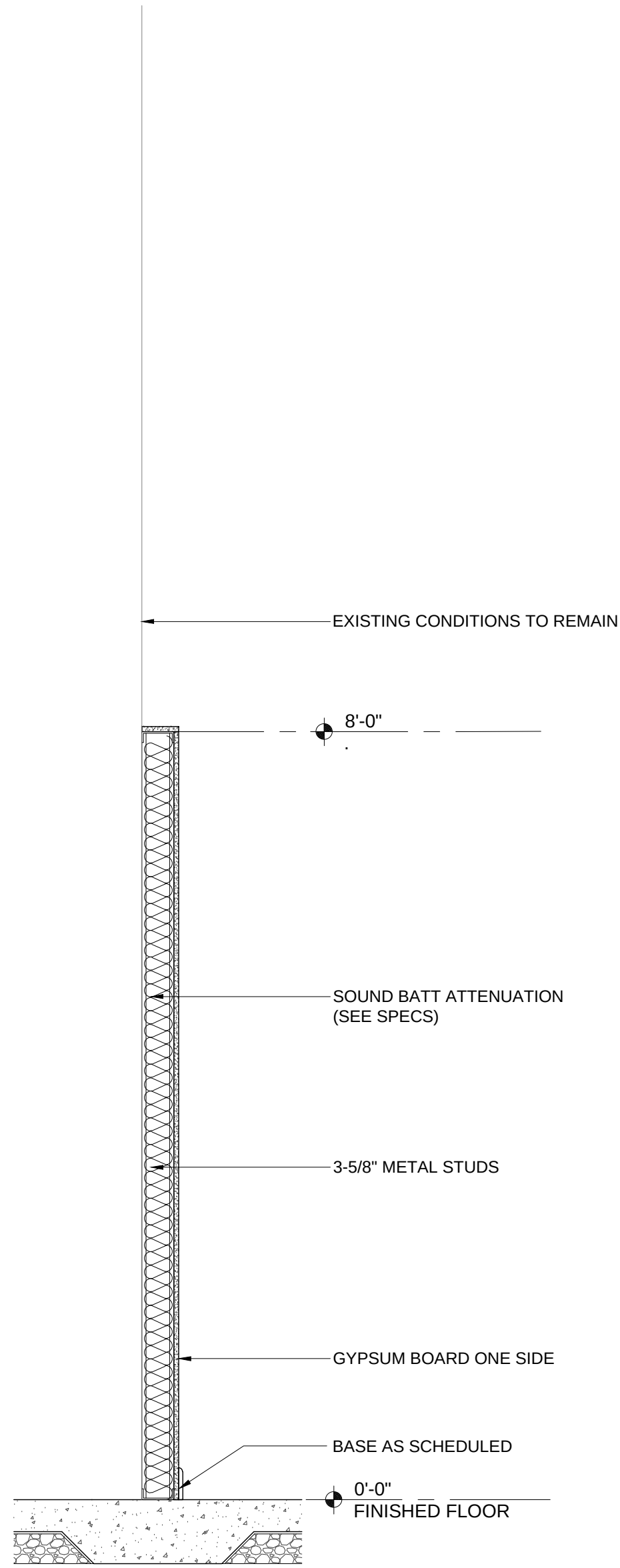
4 BRICK SCREEN WALL
SCALE: 1/4" = 1'-0"



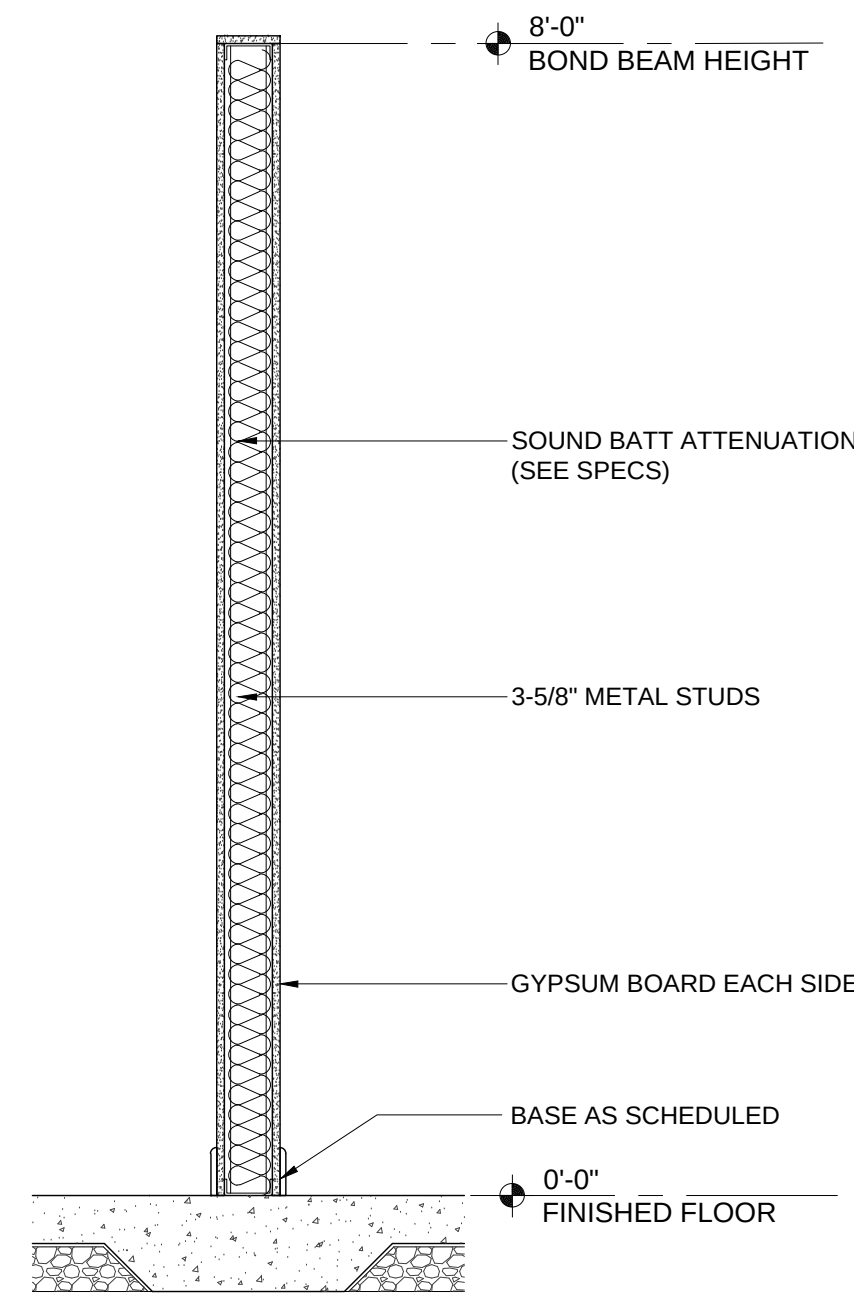
5 STAIR / SCREENWALL SECTION
SCALE: 3/4" = 1'-0"



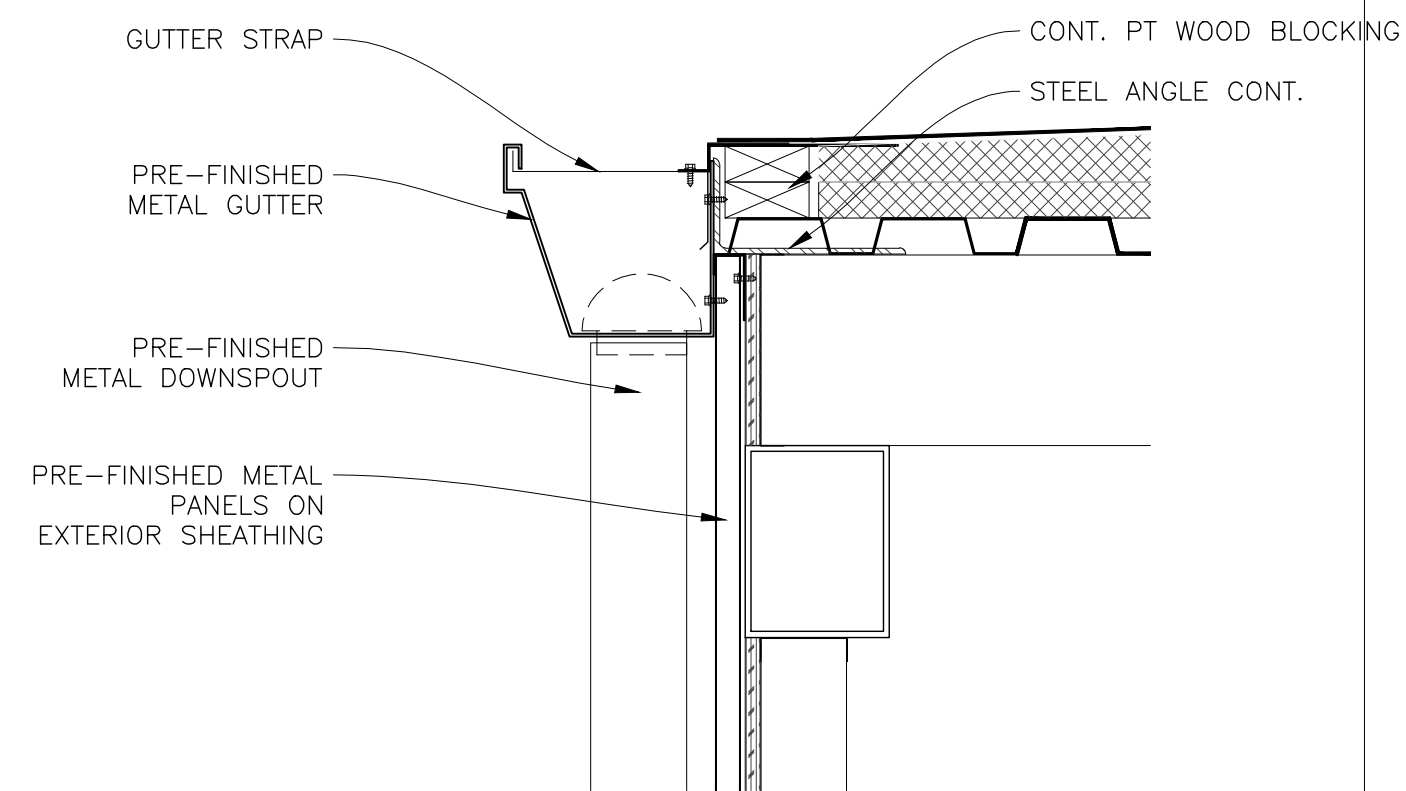
P3 PARTITION TYPES
SCALE: 3/4"=1'-0"



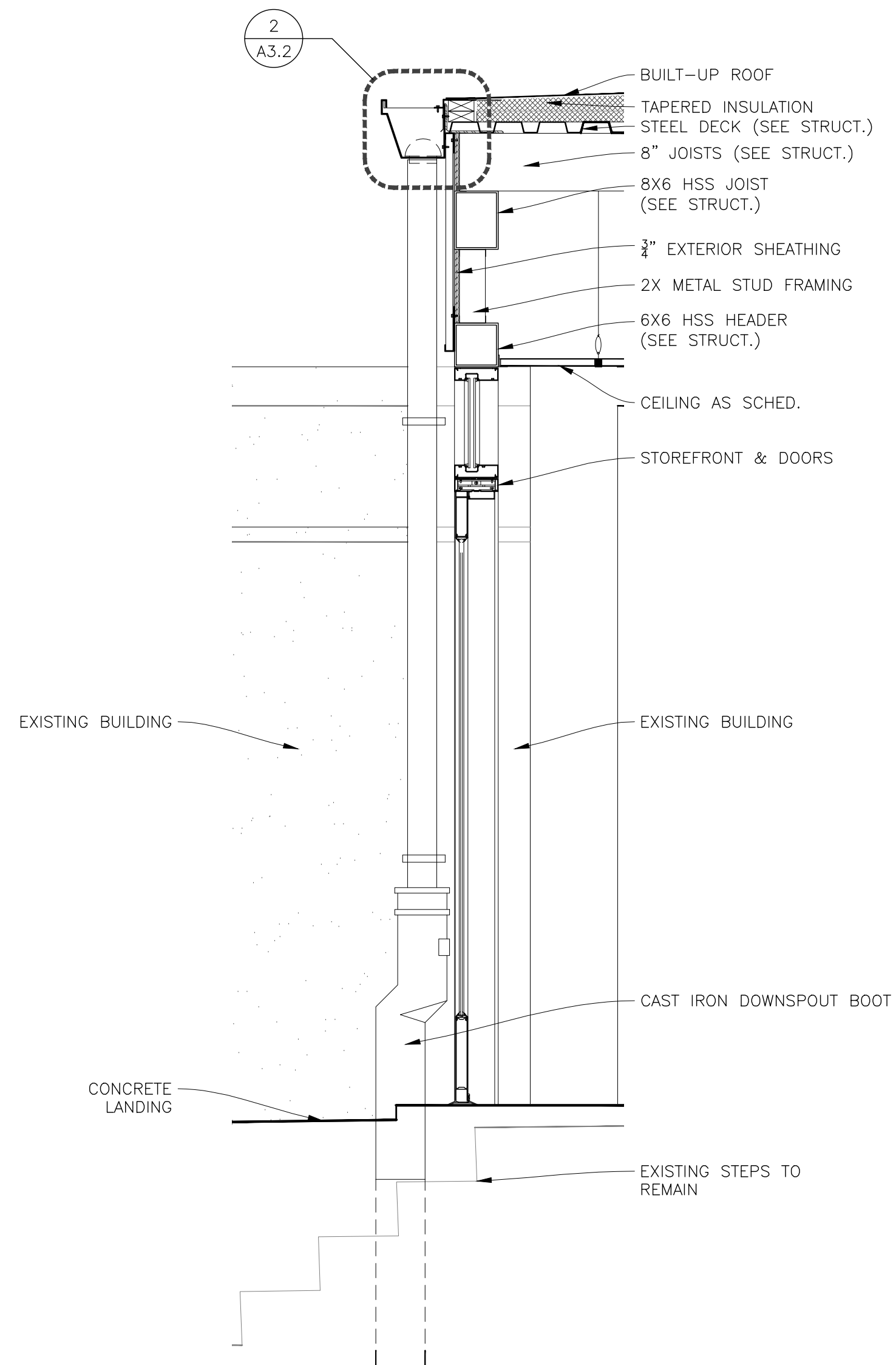
P2 PARTITION TYPES
SCALE: 3/4"=1'-0"



P1 PARTITION TYPES
SCALE: 3/4"=1'-0"

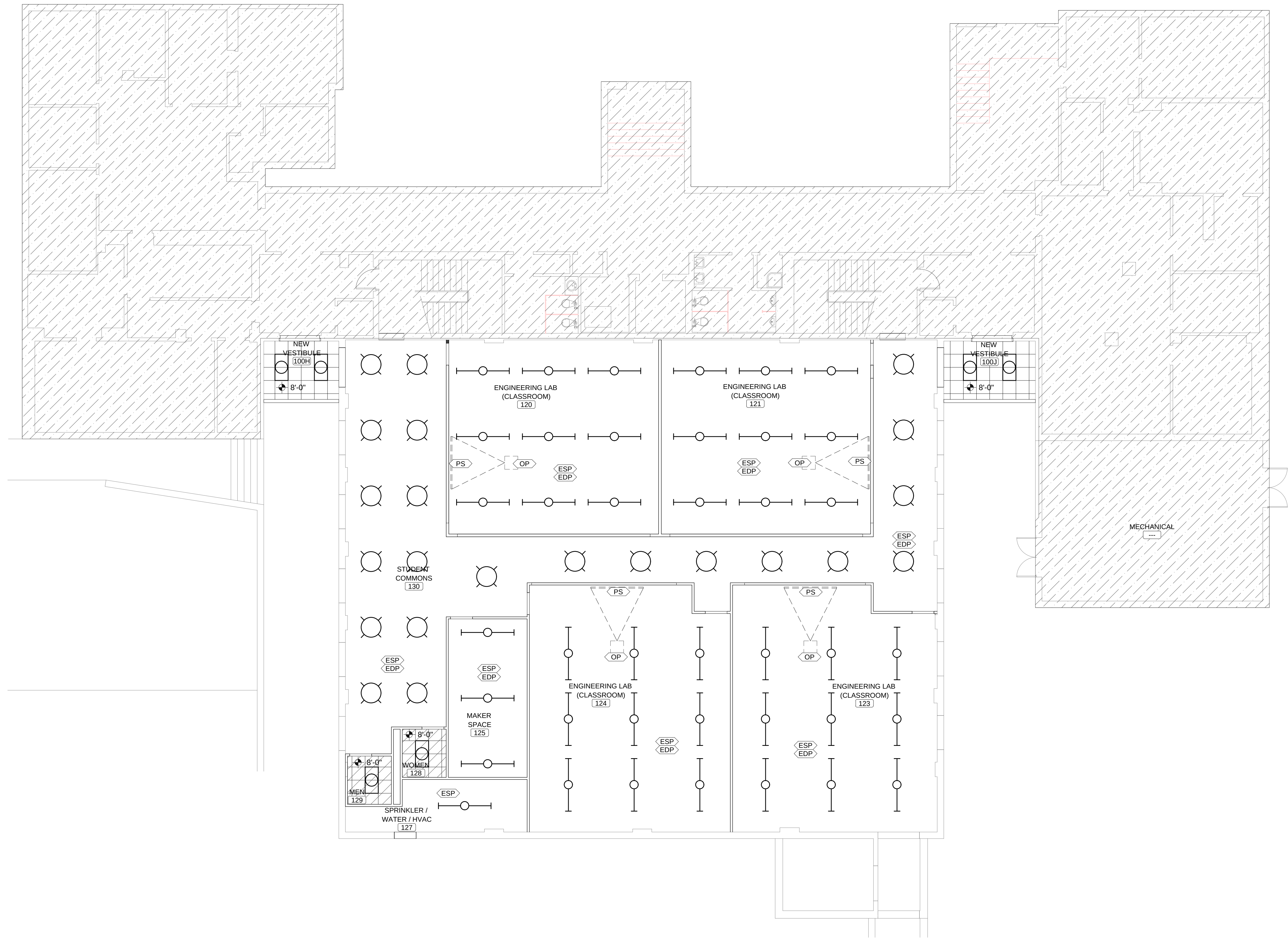


2 DETAIL
SCALE: 1 1/2"=1'-0"



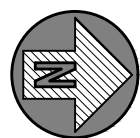
1 WALL SECTION
SCALE: 3/4"=1'-0"

- Z:\2026\MKA-26-042-00 Renovations Wright Hall Troy University\CAD Drawings\Architectural\A7.X Series (Ceiling Plans and Details).dwg
- Tuesday, September 22, 2026 3:51:28 PM

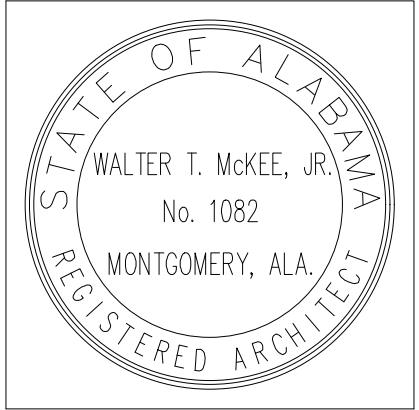


REFLECTED CEILING PLAN LEGEND	
SYMBOL	DESCRIPTION
	0'-0"
	2x2 LAY-IN ACOUSTICAL CEILING
	2x2 VINYL CLAD LAY-IN CEILING WITH ALUMINUM GRIDS
	2x4 RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	PENDANT LIGHT FIXTURE (SEE ELECTRICAL)
	1x4 SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)
	EXPOSED STRUCTURE - PAINT
	EXPOSED DUCTWORK - PAINT
	GYPSUM BOARD FURRING
	CEILING MOUNTED PROJECTOR
	WALL MOUNTED MOTORIZED PROJECTOR SCREEN

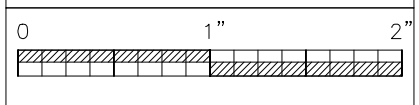
NOTE: ALL EXPOSED STRUCTURE, DUCTWORK, ETC. TO BE PAINTED BLACK (SEE SPECS FOR COLOR)



REFLECTED CEILING PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"



PROJ. MGR.: FGH
DRAWN: TB
DATE: 09.22.26
REVISIONS





CODE NOTES

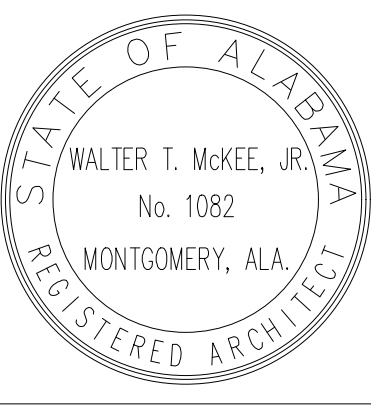
- ### GENERAL NOTES

- 1) ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE (IBC).
- 2) ALL WELDS ON METAL STAIRS AND RAILINGS ARE TO BE GROUND SMOOTH.
- 3) PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.
- 4) FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR GRAFTED APPEARANCE.
- 5) ALL RAILING COMPOSITIONS ARE TO BE EQUALLY SPACED ALONG A CONTINUOUS RUN. THE COMPOSITIONS ARE TO BE CENTERED WITHIN EACH PANEL-TYP. SEE PLANS FOR ADDITIONAL INFO.



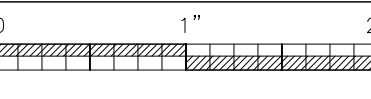
RENOVATION
at
WRIGHT HALL
WRIGHT HALL c/o TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36081
for
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36081

SHEET TITLE: FINISH SCHEDULES & DETAILS



1	09.18.26
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A8.1



LEGEND	
F	- NEW FIRE SPRINKLER PIPING
W	- UG FIRE WATER SERVICE
△	- WET PIPE SYSTEM CONTROL RISER
⊗	- SHUT OFF VALVE
—	- CHECK VALVE
---	- SPRINKLER SYSTEM ZONE BOUNDARY
⑥	- NOTE LEGEND NUMBER
FDC	- FIRE DEPARTMENT CONNECTION
AHJ	- AUTHORITY HAVING JURISDICTION
IBC	- INTERNATIONAL BUILDING CODE
IFC	- INTERNATIONAL FIRE CODE
NFPA	- NATIONAL FIRE PROTECTION ASSOC.
DIP	- DUCTILE IRON PIPE
MJ	- MECHANICAL JOINT
UG	- UNDERGROUND
GPM	- GALLONS PER MINUTE
PSI	- POUNDS PER SQUARE INCH
SF	- SQUARE FEET
U.L.	- UNDERWRITERS LABORATORY
FS	- FLOW SWITCH
T	- TAMPER SWITCH

- GENERAL NOTES:
- FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE OFFICE OF THE STATE OF ALABAMA FIRE MARSHAL.
 - THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
 - FIRE PROTECTION SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 25. A COPY OF THE LATEST EDITION OF NFPA 25 SHALL BE INCLUDED AS PART OF THE OPERATION AND MAINTENANCE DOCUMENTS PROVIDED TO THE OWNER.
 - MAINTAIN ACCURATE AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND DELIVER REQUIRED COPIES TO THE OWNER AS PART OF CLOSE OUT DOCUMENTS.
 - THESE DRAWINGS ARE FOR ENGINEERING INTENT ONLY. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE FINAL DESIGN / INSTALLATION DOCUMENTS, AND HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS, AND THE FIRE SPRINKLER SHOP DRAWINGS, MUST BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER LICENSED IN THE STATE OF ALABAMA, AND MUST BEAR HIS/HER LICENSE SEAL, WITH SIGNATURE AND DATE, WHEN SUBMITTED FOR REVIEW.
 - THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A "STATEMENT OF COMPLIANCE" TO THE AUTHORITY HAVING JURISDICTION (AHJ) BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, AS PER SECTION 901.2.1 IN THE INTERNATIONAL FIRE CODE, 2021 EDITION.
 - AREAS ABOVE CEILINGS THAT ARE CONSIDERED COMBUSTIBLE SHALL BE SPRINKLED AS REQUIRED.
 - AREAS ABOVE CEILINGS THAT ARE CONSIDERED NON-COMBUSTIBLE SHALL NOT BE USED FOR STORAGE. FIRE SPRINKLER PROTECTION IS NOT REQUIRED.

- NOTE LEGEND: (THIS SHEET ONLY)
- SPRINKLER CONTRACTOR SHALL MAKE CONNECTION TO THE NEW UNDERGROUND FIRE SERVICE AT APPROXIMATELY 5'-0" OUTSIDE THE BUILDING FOOTPRINT. COORDINATE WITH SITE UTILITIES CONTRACTOR, VERIFY THAT REQUIRED FLUSHING AND TESTING OF FIRE SERVICE HAS BEEN COMPLETED PRIOR TO CONNECTION.
 - TEMPERATURE IN THIS AREA MUST BE MAINTAINED AT A MINIMUM OF 40°F. SUPPLEMENTAL HEAT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
 - COORDINATE WITH OTHER DISCIPLINES WITHIN FIRE PUMP ROOM TO AVOID OBSTRUCTIONS.
 - SEE SHEET FP1.02 FOR ENLARGED PUMP ROOM PLANS.
 - BATHROOMS TO HAVE CEILINGS. ROUTE PIPING AND PROVIDE SPRINKLER HEADS TO BATHROOM CEILINGS.
 - EXPOSED WET SYSTEM MAIN ROUTED BELOW STRUCTURE TO PROVIDE COVERAGE TO ROOMS BELOW WITH OPEN CEILINGS.
 - BACKFLOW PREVENTION TO BE PROVIDED BY A DUAL CHECK BACKFLOW PREVENTER IN BELOW GRADE VAULT WITH AT-GRADE ACCESS. COORDINATE WITH CIVIL AND THE FIRE DEPARTMENT HAVING JURISDICTION FOR THE EXACT LOCATION OF THE FDC AND CONNECTION REQUIREMENTS.

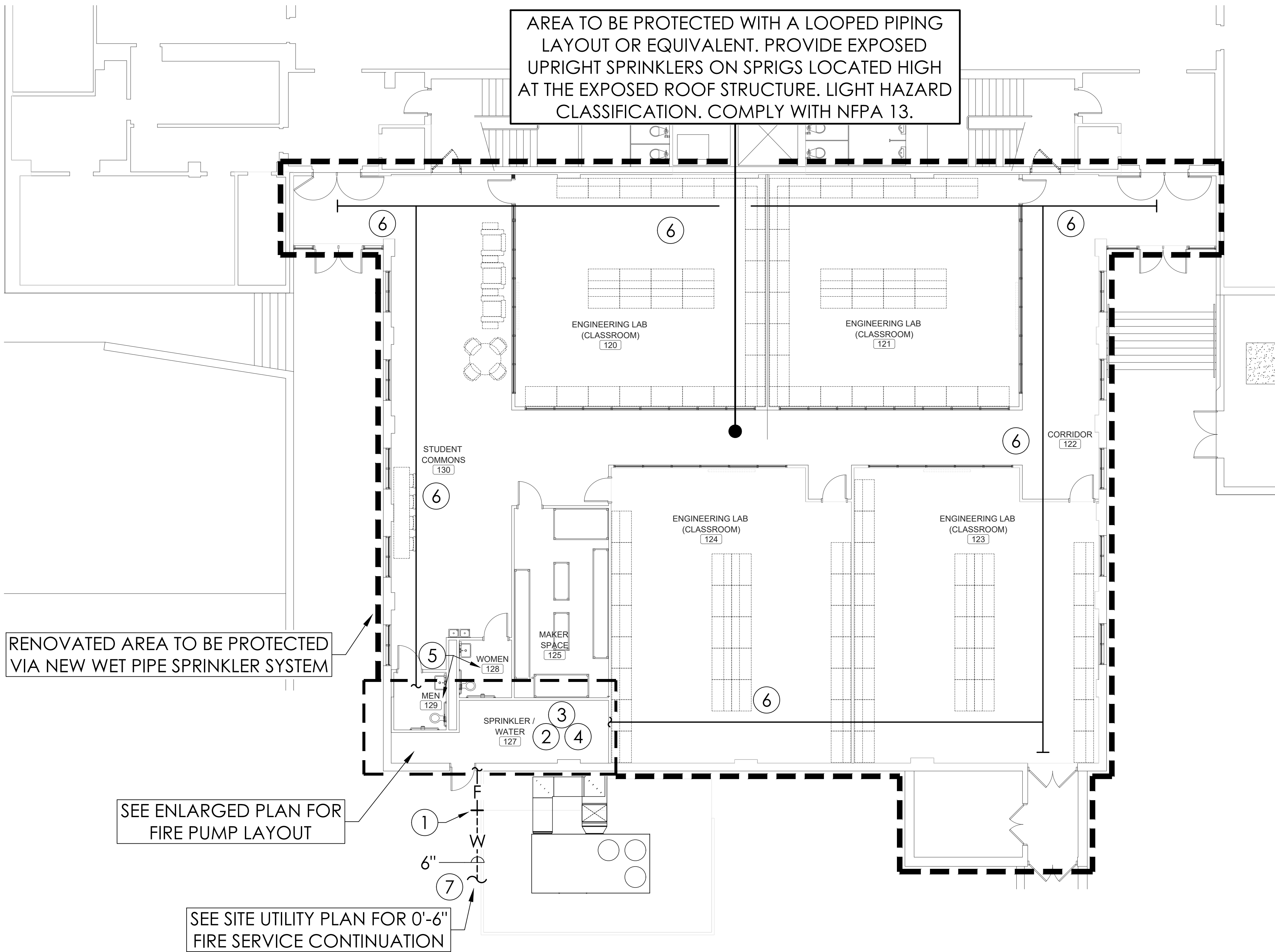
CIVIL COORDINATION
SEE SITE UTILITIES DRAWING FOR THE LOCATION OF THE FIRE WATER SERVICE, BACKFLOW PREVENTER, AND FIRE HYDRANTS. PROVIDE WATERPROOF SUPERVISORY SWITCHES (TAMPER SWITCHES) ON THE TWO ISOLATION VALVES AT THE BACKFLOW PREVENTER. TAMPER SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. COORDINATE WITH THE SITE UTILITIES CONTRACTOR, ELECTRICAL CONTRACTOR, WATER AUTHORITY HAVING JURISDICTION, AND THE FIRE DEPARTMENT HAVING JURISDICTION.

SPRINKLER SYSTEMS SCHEDULE					
ROOM / AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM / SF	CALCULATED AREA / SF	GPM HOSE ALLOWANCE
CLASSROOMS, COMMONS, MAKER SPACE, RESTROOMS, CORRIDORS, SPRINKLER	WET PIPE	LIGHT HAZARD	.10	1500	100

NOTES:

- SPRINKLER COVERAGE SHALL BE PROVIDED THROUGHOUT ALL AREAS OF THE BUILDING.
- ALL SPRINKLERS AND DISTRIBUTION PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES AS APPROPRIATE.
- SIZES, NOT SHOWN, SHALL BE PER SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
- ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS, IN WALLS, AND/OR IN PIPE CHASES UNLESS NOTED OTHERWISE. EXPOSED PIPING SHALL BE PERMITTED ONLY IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND AREAS WITHOUT SUSPENDED CEILINGS.
- PROVIDE CONCEALED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH HARD CEILINGS.
- PROVIDE RECESSED, QUICK RESPONSE, PENDENT SPRINKLERS AT ALL AREAS WITH SUSPENDED CEILINGS.
- PROVIDE EXPOSED, QUICK RESPONSE, UPRIGHT SPRINKLERS AT ALL AREAS WITHOUT FINISHED CEILINGS.
- SPRINKLERS SHALL BE FACTORY COLORED OFF-WHITE. ESCUTCHEONS SHALL MATCH SPRINKLERS. SUBMIT COLOR CHARTS TO ARCHITECT FOR APPROVAL PRIOR TO PLACING ORDER.
- FIRE SPRINKLERS SHALL BE LOCATED IN A SYMMETRICAL PATTERN RELATIVE TO THE CEILINGS AND TO ALL OTHER ITEMS LOCATED IN THE CEILINGS. SPRINKLERS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILES. THE SPRINKLER CONTRACTOR SHALL PROVIDE ANY AND ALL EXTRA SPRINKLERS TO MEET THIS REQUIREMENT. COORDINATE WITH ALL DISCIPLINES.
- SPRINKLERS SUBJECT TO MECHANICAL DAMAGE SHALL BE PROTECTED USING LISTED GUARDS.

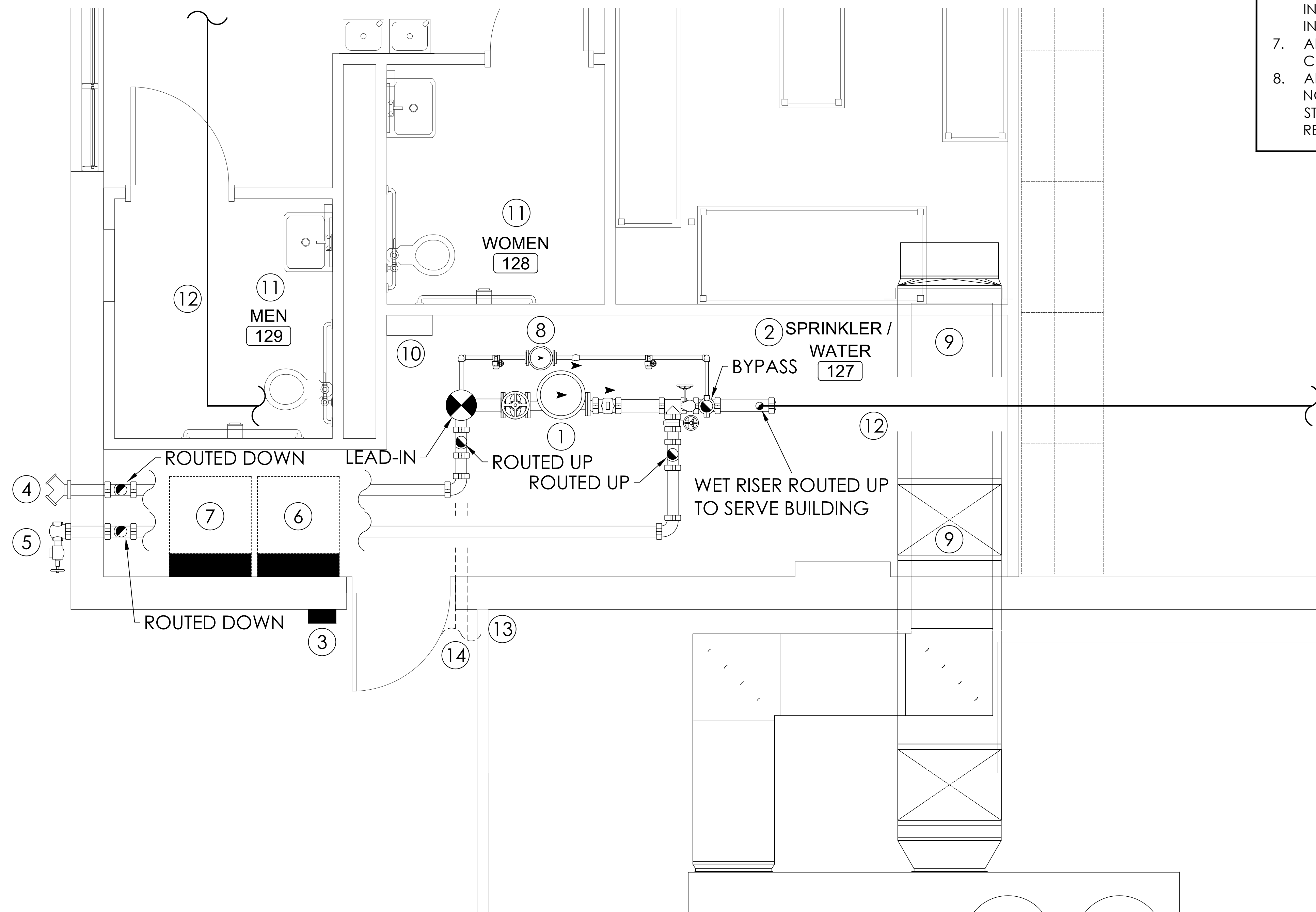
- INSPECTION AND TEST REQUIREMENTS BY LOCAL FIRE DEPARTMENT:
- AN INSPECTION OF ALL PIPES SHALL BE COMPLETED BY THE LOCAL FIRE DEPARTMENT BEFORE ANY PIPE IS INSTALLED.
 - INSTALLATION INSPECTION: THE INSTALLATION OF ALL SPRINKLER PIPING, HANGARS, HEADS, AND RISERS, SHALL BE INSPECTED BY THE LOCAL FIRE DEPARTMENT BEFORE BEING COVERED.
 - A FUNCTIONAL TEST SHALL BE ACCOMPLISHED BY THE LOCAL FIRE DEPARTMENT, BY HAVING AN ENGINE COMPANY PUMP TO THE SYSTEM, AT 150 PSI, WITH WATER FLOWING OUT OF A TEST DRAIN OR OTHER ACCEPTABLE POINT. THIS CAN BE DONE AS PART OF THE "ACCEPTANCE TEST", WITH PROPER NOTICE.
 - A FINAL ACCEPTANCE TEST, OF ALL NEWLY INSTALLED FIRE SPRINKLER SYSTEMS, AND/OR WHERE PLANS WERE REQUIRED TO BE SUBMITTED, SHALL BE ACCOMPLISHED.
 - A COMPLETED COPY OF THE "CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING" SHALL BE PROVIDED TO OWNER.
 - A COMPLETED COPY OF THE "LOCAL FIRE DEPARTMENT FUNCTIONAL TEST" SHALL BE PROVIDED AT THE SYSTEM ACCEPTANCE.

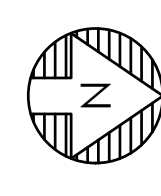


FIRE SPRINKLER PLAN - FIRST FLOOR
SCALE: 1/8"=1'-0"

SPRINKLER SYSTEM NOTES

- FIRE PROTECTION SYSTEM SHALL BE WET PIPE AS INDICATED ON THE DRAWING. BUILDING AND OVERHANGS SHALL BE SPRINKLED PER (MOST STRINGENT) 2022 NFPA-13, 2021 INTERNATIONAL BUILDING CODE (IBC), AND 2021 INTERNATIONAL FIRE CODE (IFC).
- DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH (MOST STRINGENT) 2022 NFPA-13, 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL FIRE CODE, STATE AND LOCAL CODES, THE LOCAL FIRE DEPARTMENT, AND THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER.
- OCCUPANCY CLASSIFICATION SHALL BE PER 2022 NFPA-13.
- SYSTEMS SHALL BE INTERFACED WITH BUILDING ALARM SYSTEM.
- BUILDING SHALL BE SUPERVISED PER 2021 INTERNATIONAL BUILDING CODE, AND 15. NFPA 71, 72, 73.
- THE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL AN APPROVED, COMPLETE AND OPERATIONAL SPRINKLER SYSTEM. SYSTEM SHALL MEET ALL APPLICABLE CODES AND ORDINANCES. COORDINATE HEADS WITH LIGHTS, MECHANICAL EQUIPMENT, CEILING SYSTEMS, ETC.
- LOCATION AND SPACING OF SPRINKLERS SHALL COMPLY WITH 2022 NFPA 13.
- CUTTING OF STRUCTURAL AND / OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
- ALL WET SYSTEM FIRE SPRINKLER PIPING SHALL BE INSTALLED WITHIN THE BUILDING INSULATION ENVELOPE. SPRINKLER CONTRACTOR SHALL PROVIDE OFFSETS IN PIPE ROUTING AS REQUIRED TO COMPLY WITH THIS REQUIREMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND DETAILS AND COORDINATE WITH GENERAL CONTRACTOR.
- FIRE STOP ALL PENETRATIONS OF SMOKE / FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED STRUCTURES.
- PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND IN CHASES.
- PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH 2022 NFPA-13.
- METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE COMPLY WITH 2022 NFPA-13.
- TEMPERATURE RATINGS, OF FUSIBLE ELEMENTS, IN AUTOMATIC SPRINKLERS SHALL BE IN ACCORDANCE WITH 2022 NFPA-13.
- ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "F.M.". (175 WORKING PRESSURE.)
- ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED, UNLESS NOTED OTHERWISE. TYPE AND EXACT LOCATION OF FLOW, AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES.
- ALL REQUIRED TAMPER SWITCHES, AND FLOW SWITCHES, SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO A CONSTANTLY MONITORED LOCATION. ALL POWER WIRING, CONTROL WIRING, AND INTERLOCK WIRING, SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR.
- PROVIDE A PERMANENTLY ATTACHED NAME TAG, STATING THE REQUIRED DESIGN CRITERIA. FOR EACH HYDRAULICALLY DESIGNED SYSTEM, SPRINKLERS SHALL COVER THE ENTIRE AREA OF EACH PROTECTED ROOM, INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS. PROVIDE EXTRA SPRINKLERS AS REQUIRED TO AVOID ANY OBSTRUCTION OF SPRINKLER COVERAGE.
- ALL SPRINKLER HEADS MOUNTED IN CEILINGS SHALL BE LOCATED A MINIMUM OF 30. 4" AWAY FROM ANY WALL, CEILING HEIGHT CHANGE, OR ANY OTHER VERTICAL INTERSECTING SURFACE.
- PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
- MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE / FILE STORAGE.
- PROVIDE FLUSHING CONNECTIONS, TEST CONNECTIONS, AND AUXILIARY DRAINS AS NEEDED FOR COMPLETE DRAINAGE AND TESTING.
- PROVIDE SPRINKLERS ABOVE AND BELOW ANY OBSTRUCTION THAT IS 48" OR WIDER.
- NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL AND/OR DATA EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES.
- ALL HYDROSTATIC TESTING AND / OR FLUSHING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH 2022 NFPA STANDARDS 13 AND THE LATEST EDITION OF NFPA 24, AND SHALL BE WITNESSED BY A REPRESENTATIVE OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE ALL SIGNAGE AS REQUIRED BY (MOST STRINGENT) 2022 NFPA 13, 2021 IBC, 2021 IFC, THE OWNER'S REPRESENTATIVES, INSURANCE UNDERWRITERS, AND LOCAL FIRE DEPARTMENT HAVING JURISDICTION.
- PROVIDE MAIN DRAINS AND AUXILIARY DRAINS AS REQUIRED FOR COMPLETE DRAINAGE OF THE ENTIRE SPRINKLER SYSTEM. ROUTE ALL DRAIN PIPING TO EXTERIOR AND SPILL ON GRADE AT OWNER APPROVED LOCATIONS.
- ALL LIGHT HAZARD AREAS SHALL BE PROTECTED WITH A DENSITY OF .10 / 1500 SF PLUS A MINIMUM HOSE ALLOWANCE OF 100 GPM AS PER NFPA-13.
- ALL ORDINARY-1 HAZARD AREAS SHALL BE PROTECTED WITH A DENSITY OF .15 / 1500 SF PLUS A MINIMUM HOSE ALLOWANCE OF 250 GPM AS PER NFPA-13.
- PAINTING OF FIRE SPRINKLER PIPING IS NOT THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. IF EXPOSED SPRINKLER PIPING IS TO BE PAINTED BY GENERAL CONTRACTOR, ALL SPRINKLERS MUST BE COVERED AND PROTECTED FROM PAINT. ANY SPRINKLER SHOWING PAINT, OTHER THAN FACTORY FINISHES, SHALL BE REMOVED, DISCARDED, AND REPLACED WITH NEW SPRINKLER.
- THE SPRINKLER CONTRACTOR SHALL MAKE OFFSETS AS REQUIRED TO ROUTE SPRINKLER PIPING THROUGH THE STRUCTURE AND TO AVOID CONFLICTS WITH OTHER DISCIPLINES.
- PROVIDE DRIP PANS BELOW SPRINKLER PIPING IN ALL ELECTRICAL ROOMS. PROVIDE SHIELDS TO PREVENT WATER FROM SPRAYING ON ELECTRICAL EQUIPMENT. DRIP PANS AND SHIELDS SHALL BE NON-COMBUSTIBLE.



 **FIRE SPRINKLER PLAN - ENLARGED PUMP ROOM**
SCALE: 1/2"=1'-0"

GENERAL NOTES:

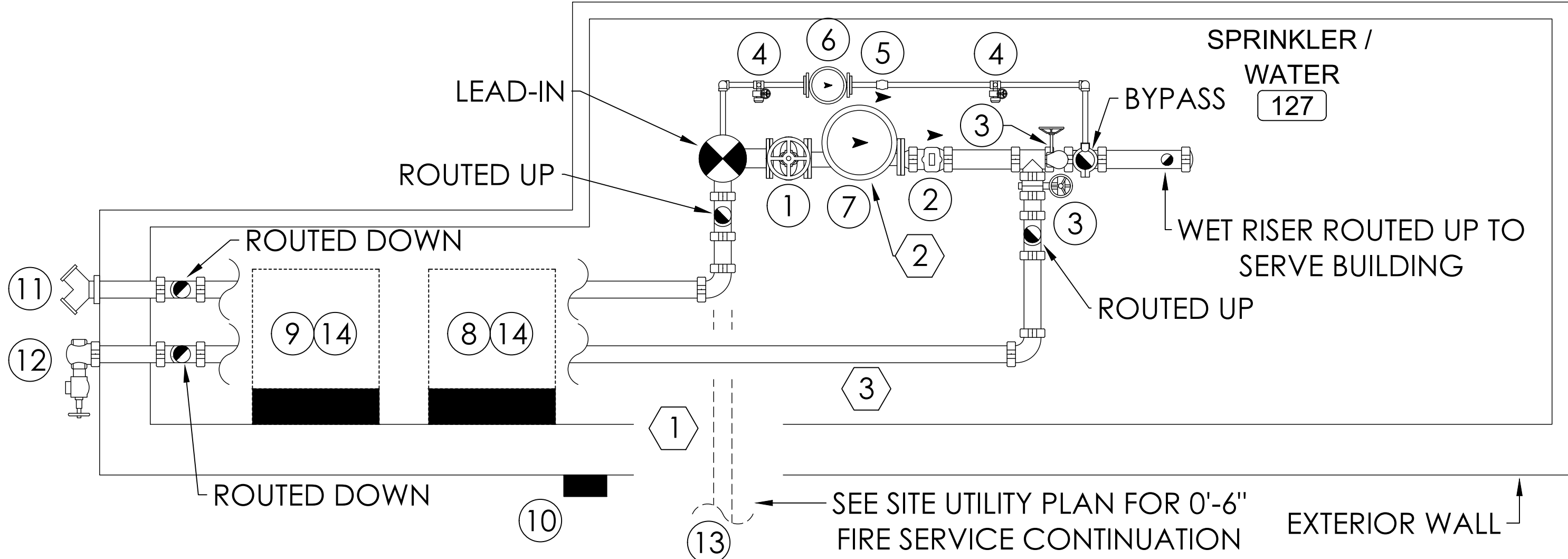
1. FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE OFFICE OF THE STATE OF ALABAMA FIRE MARSHAL.
2. THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
3. FIRE PROTECTION SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 25. A COPY OF THE LATEST EDITION OF NFPA 25 SHALL BE INCLUDED AS PART OF THE OPERATION AND MAINTENANCE DOCUMENTS PROVIDED TO THE OWNER.
4. MAINTAIN ACCURATE AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND DELIVER REQUIRED COPIES TO THE OWNER AS PART OF CLOSE OUT DOCUMENTS.
5. THESE DRAWINGS ARE FOR ENGINEERING INTENT ONLY. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE FINAL DESIGN / INSTALLATION DOCUMENTS, AND HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS, AND THE FIRE SPRINKLER SHOP DRAWINGS, MUST BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER LICENSED IN THE STATE OF ALABAMA, AND MUST BEAR HIS/HER LICENSURE SEAL, WITH SIGNATURE AND DATE, WHEN SUBMITTED FOR REVIEW.
6. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A "STATEMENT OF COMPLIANCE" TO THE AUTHORITY HAVING JURISDICTION (AHJ) BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, AS PER SECTION 901.2.1 IN THE INTERNATIONAL FIRE CODE, 2021 EDITION.
7. AREAS ABOVE CEILINGS THAT ARE CONSIDERED COMBUSTIBLE SHALL BE SPRINKLED AS REQUIRED.
8. AREAS ABOVE CEILINGS THAT ARE CONSIDERED NON-COMBUSTIBLE SHALL NOT BE USED FOR STORAGE. FIRE SPRINKLER PROTECTION IS NOT REQUIRED.

NOTE LEGEND: (THIS SHEET ONLY)

1. FIRE PUMP ASSEMBLY SERVING BUILDING FROM 0'-6" UNDERGROUND SERVICE. SEE DETAIL.
2. TEMPERATURE IN THIS AREA MUST BE MAINTAINED AT A MINIMUM OF 40° F. SUPPLEMENTAL HEAT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
3. LOCAL ELECTRIC HORN AND STROBE ALARM OR EQUIVALENT MOUNTED ON EXTERIOR WALL, OUTSIDE THE FIRE PUMP ROOM DOOR. ALARM SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR. POWER AND FIRE ALARM CONNECTIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR EXACT LOCATION.
4. PROVIDE A FIRE DEPARTMENT CONNECTION, MOUNTED ON THE EXTERIOR WALL. THE INSTALLATION SHALL INCLUDE AN AUTOMATIC BALL DRIP WITH DRAIN PIPED TO EXTERIOR AND SPILLED ON GRADE. PROVIDE FACTORY FURNISHED CAP AND CHAIN ON EACH CONNECTION. COORDINATE WITH THE LOCAL FIRE DEPARTMENT FOR THE EXACT LOCATION OF FDC AND CONNECTION REQUIREMENTS.
5. PROVIDE CHROME PLATED TEST HEADER, MOUNTED ON EXTERIOR WALL AND EASILY ACCESSIBLE. ("POTTER ROMER" OR EQUIVALENT.)
6. FIRE PUMP (FP-1) CONTROL PANEL. MAINTAIN REQUIRED CLEARANCE FOR CONTROL PANEL.
7. JOCKEY PUMP (JP-1) CONTROL PANEL. MAINTAIN REQUIRED CLEARANCE FOR CONTROL PANEL.
8. JOCKEY PUMP (TYP.) EXACT JOCKEY PUMP LOCATION AND MODEL SHALL BE DECIDED BY CONTRACTOR. COORDINATE WITH ELECTRICAL AND ALL REQUIRED CONTRACTORS. ROUTE AS REQUIRED.
9. MECHANICAL DUCTWORK. COORDINATE WITH MECHANICAL TO AVOID OBSTRUCTIONS.
10. PLUMBING WATER HEATER. COORDINATE WITH PLUMBING TO AVOID OBSTRUCTIONS.
11. BATHROOMS TO HAVE CEILINGS. ROUTE SPRINKLER PIPING AND HEADS FROM FIRE PUMP RISER FOR ROOM COVERAGE.
12. WET SYSTEM MAIN ROUTED BELOW EXPOSED STRUCTURE IN ORDER TO PROVIDE COVERAGE TO THE ROOMS BELOW WITH OPEN CEILINGS.
13. NEW 0'-6" UNDERGROUND FIRE SERVICE TO CONNECT TO NEW FIRE PUMP SYSTEM.
14. SPRINKLER CONTRACTOR SHALL MAKE CONNECTION TO THE NEW UNDERGROUND FIRE SERVICE AT APPROXIMATELY 5'-0" OUTSIDE THE BUILDING FOOTPRINT. COORDINATE WITH SITE UTILITIES CONTRACTOR. VERIFY THAT REQUIRED FLUSHING AND TESTING OF FIRE SERVICE HAS BEEN COMPLETED PRIOR TO CONNECTION.

FIRE SPRINKLER WATER DEMAND CALCULATION CLASSROOM NFPA-13 (2022 EDITION) (LIGHT HAZARD / WET)			
ESTIMATED PSI REQUIREMENT		ESTIMATED WATER FLOW DEMAND (GPM)	
END HEAD HYDRAULIC DEMAND:	225 SF X .10 = 22.5 GAL.	DEMAND: .10 (DENSITY) X 1,500 SF (REMOTE AREA) =	150 GPM
END HEAD PRESSURE:	$(\frac{22.5}{5.6})^2 = 16.1$ PSI	DEMAND PLUS 15% SAFETY:	150 GPM X 1.15 = 172.5 GPM
IN BLDG ELEV. PRESSURE LOSS:	28' X .434 = 12.1 PS	TOTAL HOSE ALLOWANCE:	= 100 GPM
ON SITE ELEV. PRESSURE LOSS:	= 0.0 PSI		=
PIPING LOSS:	= 10.0 PSI		=
BACKFLOW LOSS:	= 6.0 PSI		=
SAFETY FACTOR:	= 5.0 PSI		=
MINIMUM PSI REQUIREMENT:	= 49.2 PSI	TOTAL ESTIMATED DEMAND:	= 272.5 GPM

WATER FLOW TEST #1	
WATER FLOW TEST DATA	
WATER FLOW TEST LOCATION: FIRE MAIN TAP ON THE EXISTING 10" WATER MAIN RUNNING ALONG WRIGHT HALL.	
ESTIMATED STATIC: 45 PSI	
ESTIMATED FLOW: 993 GPM	
ESTIMATED RESIDUAL: 35 PSI	
CONDUCTED BY: BRENDLE SPRINKLER CO.	
DATE AND TIME TESTED: 03/23/2023	
NOTE: FIRE SPRINKLER CONTRACTOR SHALL CONDUCT THEIR OWN HYDRANT FLOW TEST IN ORDER TO HAVE UP TO DATE DATA FOR US IN HYDRAULIC CALCULATIONS.	



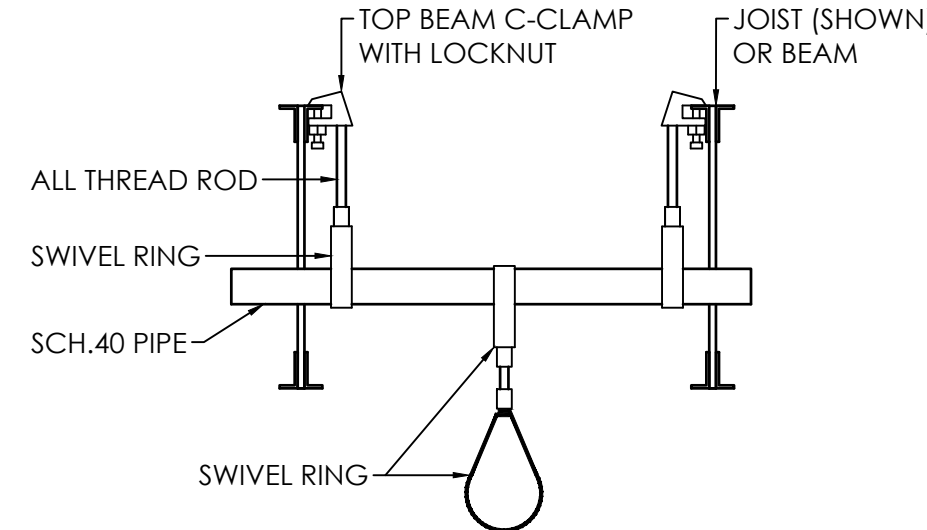
- NOTE LEGEND: (THIS DETAIL ONLY)
- OS&Y VALVE W/ FLOW SWITCH
 - CHECK VALVE
 - CONTROL VALVE W/ FLOW SWITCH
 - THREADED CONTROL VALVE W/ FLOW SWITCH
 - THREADED CHECK VALVE
 - JOCKEY PUMP
 - FIRE PUMP 300 GPM, 50 PSI
 - FIRE PUMP CONTROLS (FP-1)
 - JOCKEY PUMP CONTROLS (JP-1)
 - HORN & STROBE FIRE ALARM OR EQUIVALENT
 - WALL-MOUNTED FDC
 - TEST HEADER
 - SEE SITE UTILITY PLAN FOR 0'-6" FIRE SERVICE CONTINUATION
 - JOCKEY PUMP & FIRE PUMP CONTROLS ARE REQUIRED TO HAVE A MINIMUM CLEARANCE OF 36" IN FRONT, 30" WIDTH, AND 78" OVERHEAD

FIRE PUMP ASSEMBLY RISER DETAIL

NO SCALE

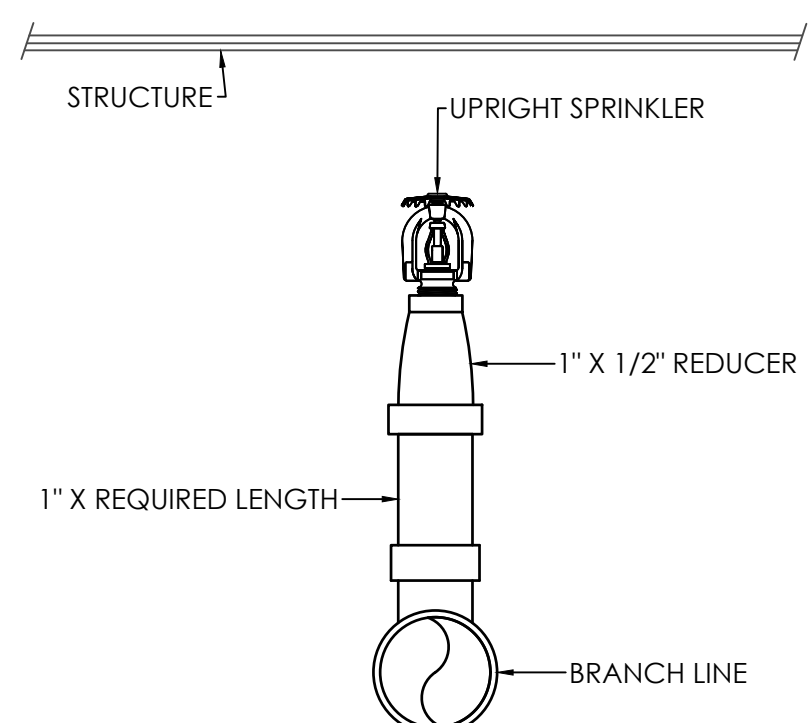
NOTE LEGEND: (THIS DETAIL ONLY)

- CONTRACTOR HAS THE OPTION TO PROVIDE STAINLESS STEEL EXTENDED 90° FITTING, EQUAL TO "AMES SERIES 1BR" IN BUILDING RISER, IN ORDER TO AVOID PIPE JOINTS UNDER THE FOUNDATION. FITTING SHALL BE "FM" AND "UL" LISTED.
- PUMP INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF "NFPA-20".
- PIPING FOR CONNECTION TO WALL MOUNTED TEST HEADER TO BE USED DURING PUMP PERFORMANCE TESTING.



MID SPAN HANGER DETAIL

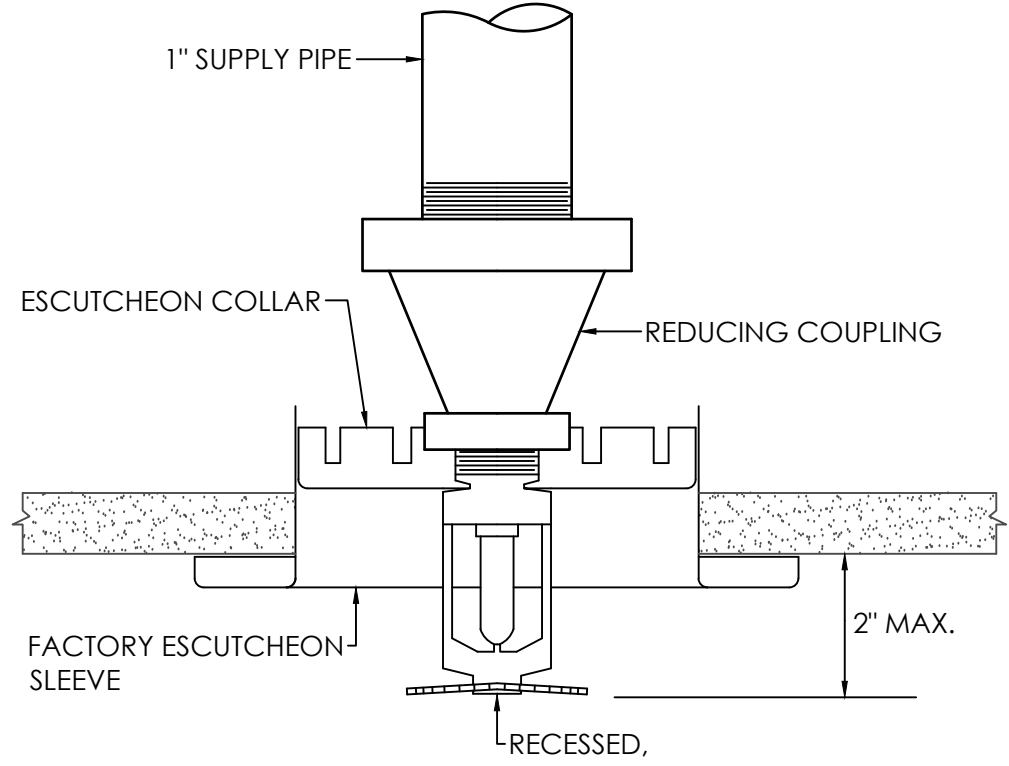
NO SCALE



UPRIGHT SPRINKLER DETAIL

NO SCALE

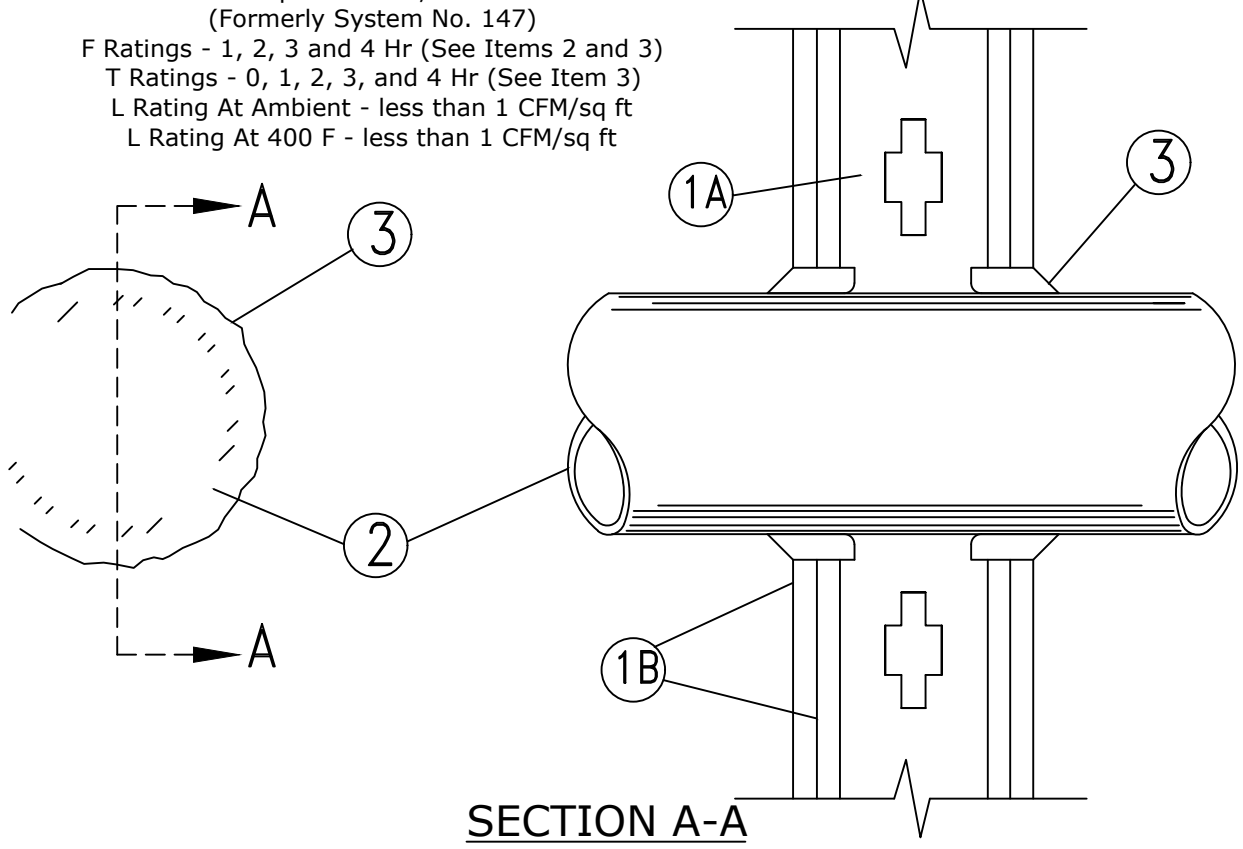
(SEE SPRINKLER SYSTEM SCHEDULE)



RECESSED SPRINKLER DETAIL

NO SCALE

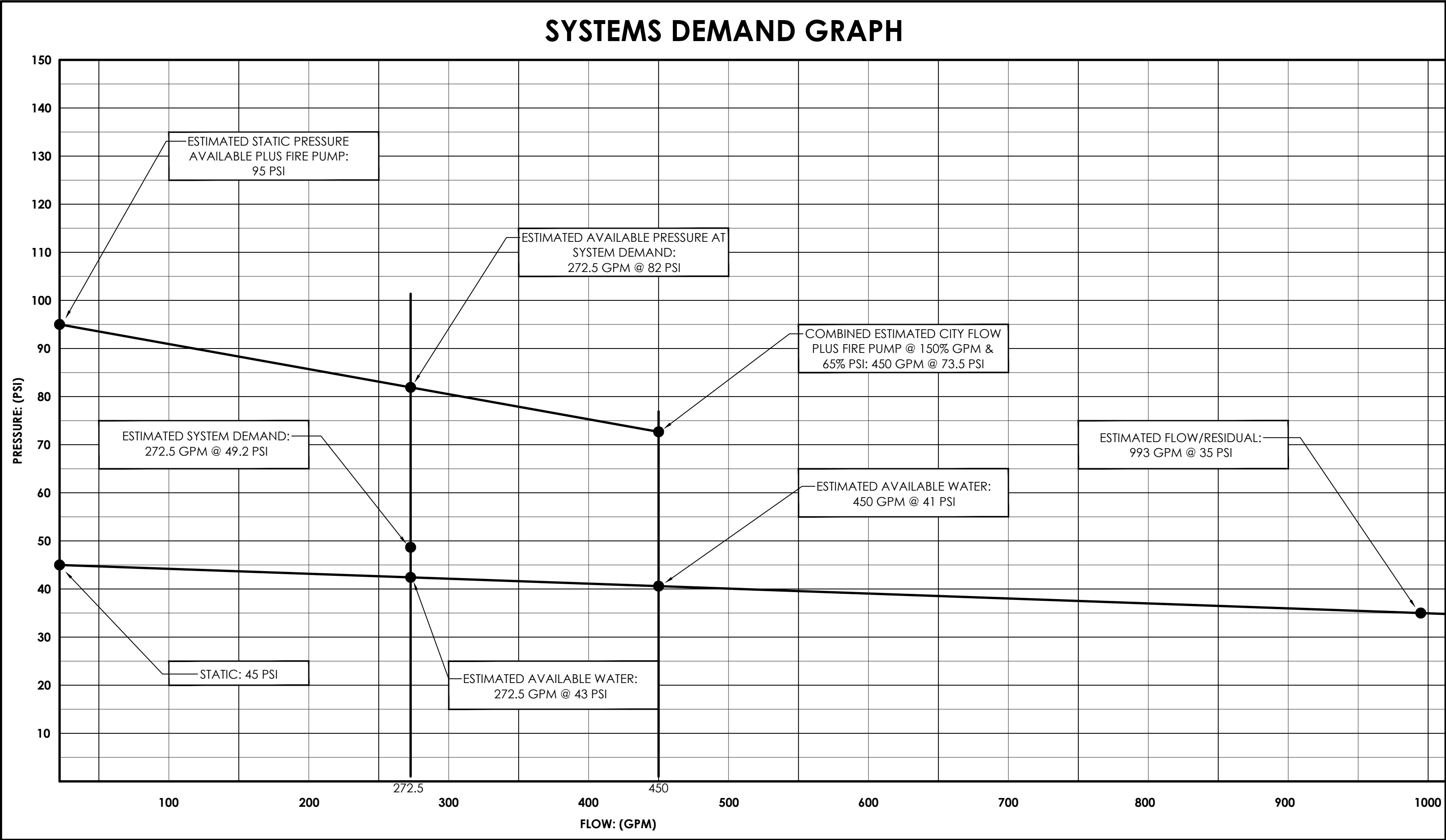
(SEE SPRINKLER SYSTEM SCHEDULE)



1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/steel 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. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-5/8 in. deep channels spaced max 24 in. OC.
 - B. Gypsum Board* - Nom 5/8 in. thick, 4 ft. 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.
 - 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 5 in. (point contact) to max 2 in. 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. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe - Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
 - C. Conduit - Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing.
 - D. Copper Tubing - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
 - E. Copper Pipe - Nom 6 in. 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. 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. 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. TITETEX CORP. A BURNER CO.
 - 3. Nom 1 in. 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. WABCO 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. thickness of caulk or sealant for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annular, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk or sealant applied to gypsum board/permeant 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 F 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:
- *When copper pipe is used, F Rating is 0 hr.
- 3M COMPANY - CF 25WB* caulk or FB-3500 WT sealant.
- **Bearing the UL Classification Marking

PIPE PENETRATION THRU RATED GYP. BOARD WALL DETAIL

NO SCALE



FIRE PUMP PERFORMANCE:

PUMP FACTORY RATING:
GPM: 300
PSI: 50

TESTED PERFORMANCE REQUIRED:
GPM: 300 X 1.50 (150%) = 450
PSI: 50 X .65 (65%) = 32.5

VERTICAL INLINE FIRE PUMP SCHEDULE

SYMBOL	GPM	PSI	TDH	RPM	SIZE	MOTOR		MIN. EFF.	PUMP SERVICE	REMARKS
						HP	ELEC			
FP-1	300	50	116	3520	4 X 3	15	208/3/60	63 %	FIRE PROTECTION	1,2

NOTES:

- BASED ON PATTERSON PUMP COMPANY 4 X 3 VERTICAL INLINE FIRE PUMP, UL / FM APPROVED, EQUAL BY PEERLESS, AURORA, OR ARMSTRONG. PROVIDE FIRE PUMP STARTER AND ALL REQUIRED ACCESSORIES FOR A COMPLETE SYSTEM. FIRE PUMP STARTING METHOD SHALL BE "SOFT START".
- FIRE PUMP FP-1, CONTROLLER, AND ACCESSORIES, SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR, AND SHALL COMPLY WITH NFPA-20.
- FIRE PUMP CONTROLLER SHALL INCLUDE A SERVICE ENTRANCE RATED, FACTORY MOUNTED, DISCONNECT, (200 AMP MINIMUM; 150 AMP FUSE MINIMUM; 5 X FLA MINIMUM).
- BASED ON FIRE PUMP CONTROLLER "FIREITROL MODEL-FIT1 930-AM1.5H" W/ TRANSFER SWITCH

SEQUENCE OF OPERATION:

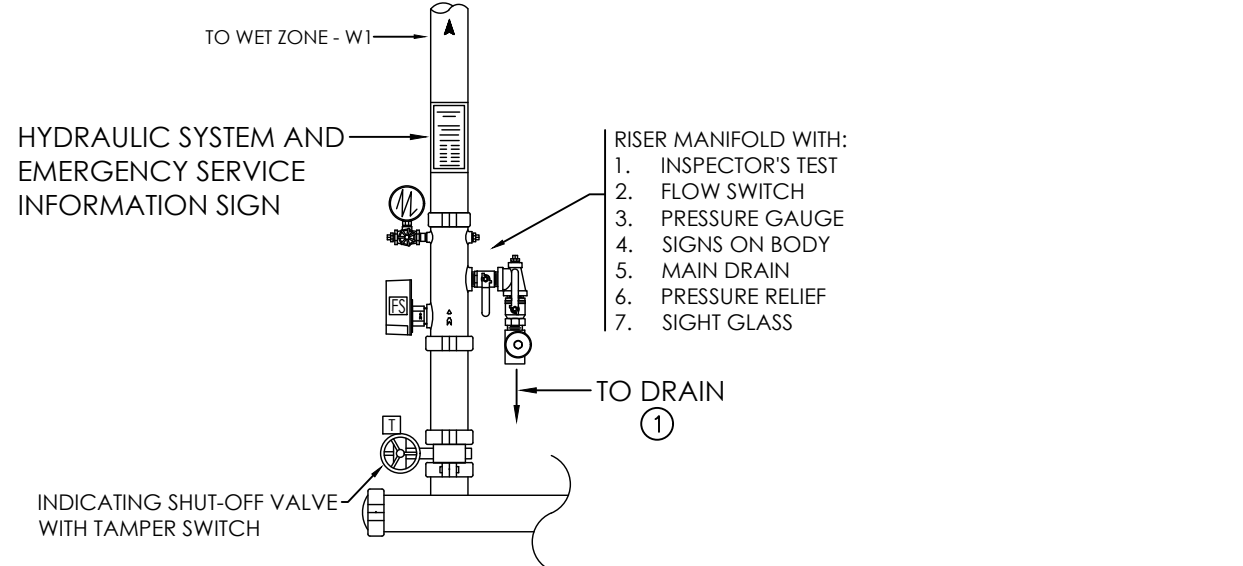
- PRESSURE SWITCHES SHALL MEET NFPA-20 REQUIREMENTS.
- JOCKEY PUMP SHALL MAINTAIN SYSTEM PRESSURE.
- FIRE PUMP PRESSURE SWITCH SHALL BE AS REQUIRED BY NFPA-20, START POINT SHALL BE 10 PSI BELOW THE START POINT OF THE JOCKEY PUMP.
- UPON AUTOMATIC STARTING, FIRE PUMP SHALL RUN UNTIL THE OFF-POINT HAS BEEN SATISFIED, AT WHICH TIME THE MINIMUM RUN TIMER HAS EXPIRED, AFTER THE CODE REQUIRED 10 MINUTES, AT THIS TIME, THE JOCKEY PUMP AND FIRE PUMP SHALL REMAIN IN AUTO MODE AND AWAIT THE NEXT CALL FOR RUN.

JOCKEY PUMP SCHEDULE

SYMBOL	GPM	PSI	RPM	MOTOR		PUMP SERVICE	REMARKS
				HP	ELEC		
JP-1	5	60	3450	.50	208/3/60	FIRE PROTECTION	1,2

NOTES:

- BASED ON GRUNDFOS, MODEL "CR1-5123620-T", MULTISTAGE PUMP, EQUAL BY PEERLESS, AURORA, OR ARMSTRONG. PROVIDE JOCKEY PUMP CONTROLLER AND ALL REQUIRED ACCESSORIES FOR A COMPLETE SYSTEM.
- JOCKEY PUMP JP-1, CONTROLLER, AND ACCESSORIES, SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR, AND SHALL COMPLY WITH NFPA 20.
- BASED ON JOCKEY PUMP CONTROLLER "FIREITROL MODEL-FTA507F-AG012H"



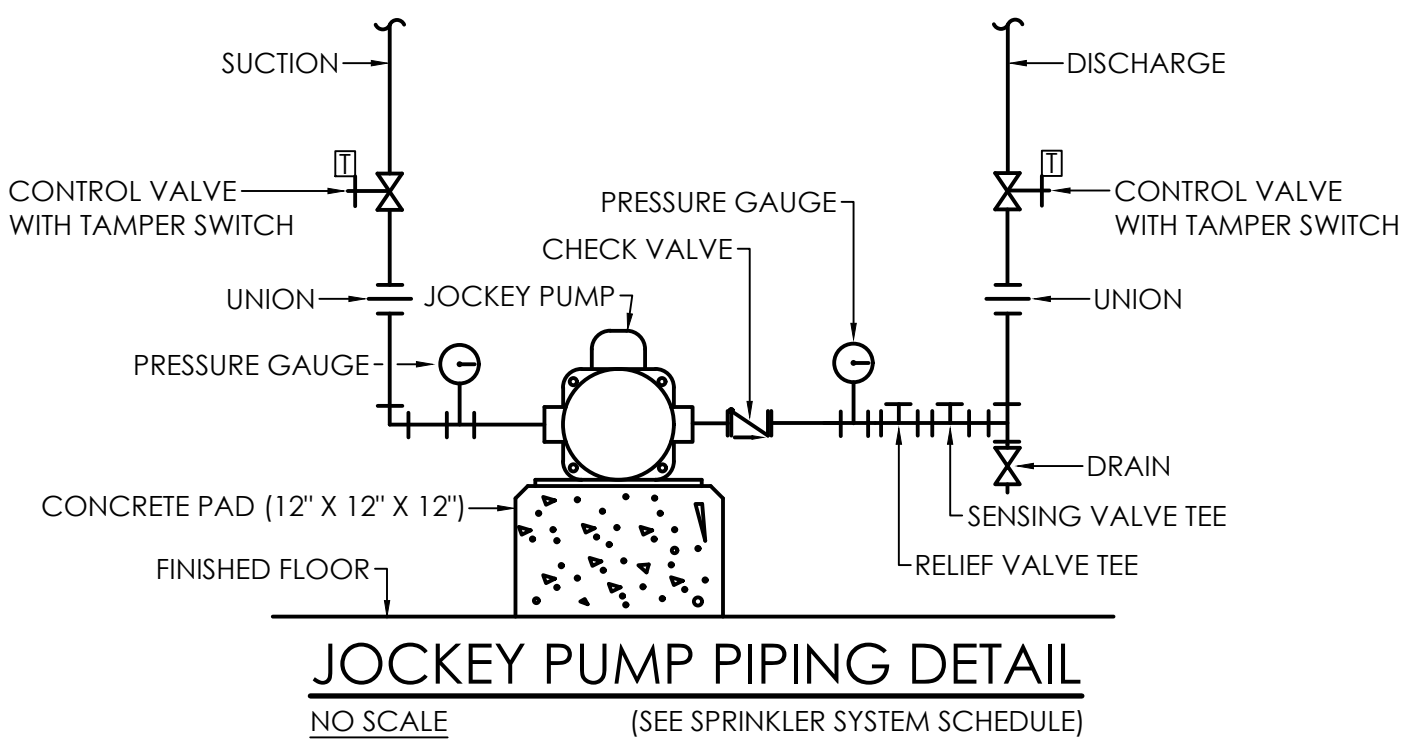
FIRE SERVICE CONTROL RISER DETAIL

NO SCALE

(CONTROL VALVE RISER)

NOTE LEGEND: (THIS DETAIL ONLY)

- ALL MAIN AND AUXILIARY DRAINS SHALL BE PIPED TO THE BUILDING EXTERIOR AND SPILLED ON GRADE AT OWNER APPROVED LOCATIONS.



JOCKEY PUMP PIPING DETAIL

NO SCALE (SEE SPRINKLER SYSTEM SCHEDULE)

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LATHAN
McKEE
ARCHITECTS

RENOVATION
WRIGHT HALL
WRIGHT HALL @ TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36081
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36081

FIRE SPRINKLER
DETAILS & SCHEDULES

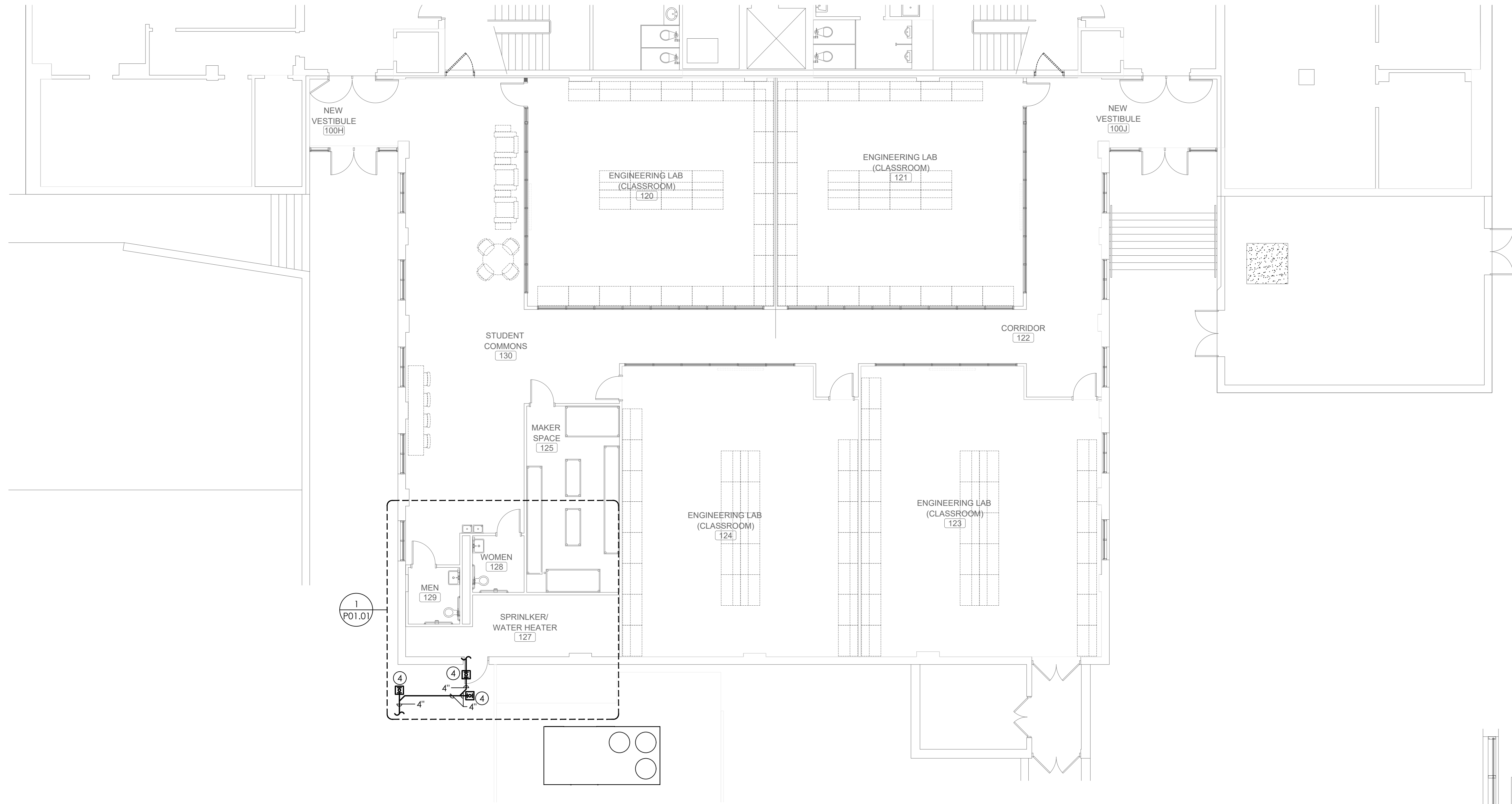
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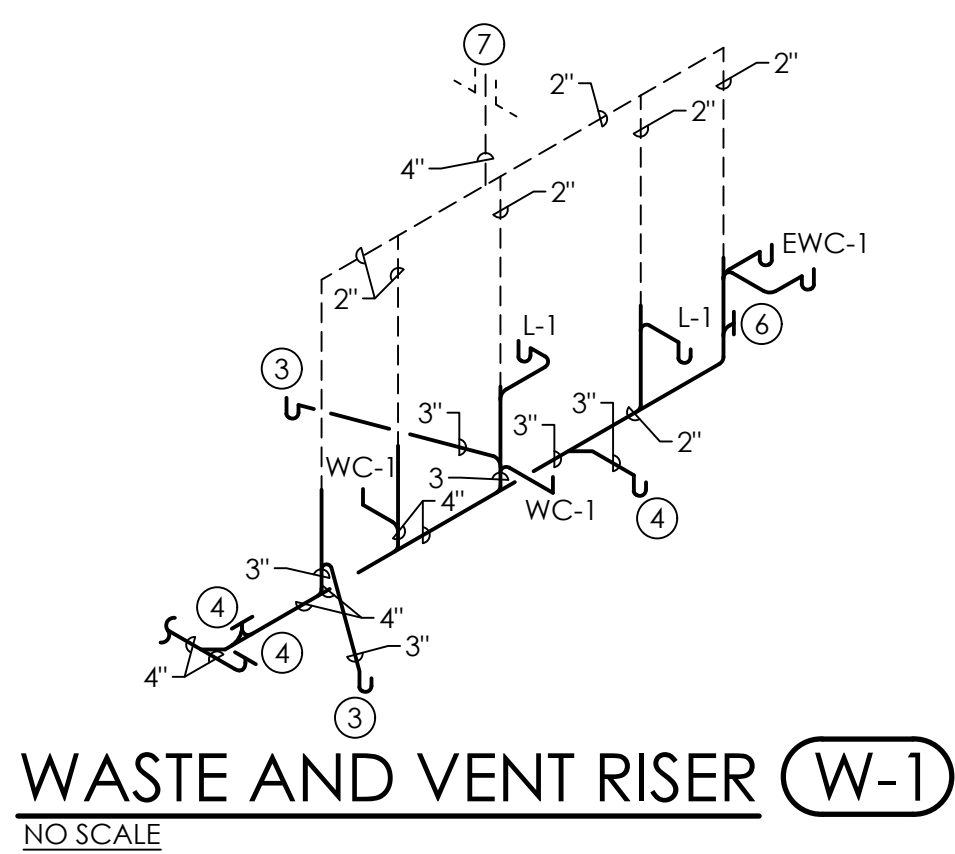
PROJ. MGR.: JM
DRAWN: JPM
DATE: 08.25.26
REVISIONS

JOB NO.
MKA-26-042-00
SHEET NO:

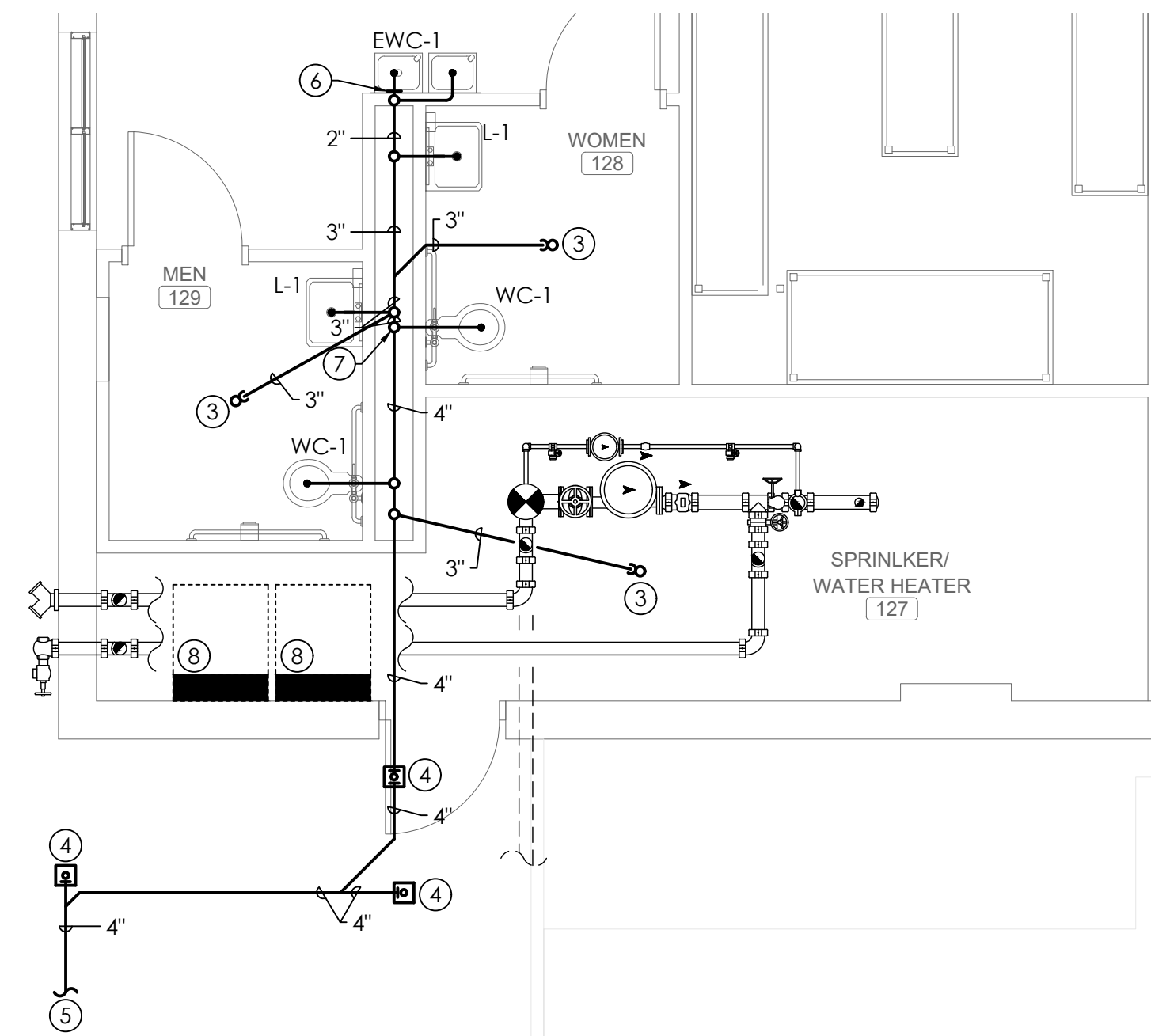
FP3.1



PLUMBING WASTE AND VENT PIPING FLOOR PLAN
SCALE: 1/8"=1'-0"



WASTE AND VENT RISER (W-1)
NO SCALE



ENLARGED WASTE AND VENT PLAN
SCALE: 1/4"=1'-0"

VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR. 3'-0" MINIMUM CAST IRON. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO ROOF.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

CONDENSATE PIPING TO BE TYPE "L" HARD COPPER PIPE WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL CONDENSATE PIPING.

NOTE LEGEND: (THIS SHEET ONLY)

1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. 3" FLOOR DRAIN. (PROVIDE TRAP GUARD.)
4. C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) PROVIDE COVER AND FRAME. EXTEND TO EXISTING 8" SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND ELEVATION.
5. W.C.O.
6. 4" V.T.R. (3'-0" MIN. CAST IRON)
8. PUMP CONTROL PANELS (SEE FIRE PROTECTION)



**LATHAN
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**RENOVATION
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**PLUMBING WASTE AND VENT
PIPING FLOOR PLAN**

SHEET TITLE:



PROJ. MGR.: RLB
DRAWN: BMP
DATE: 08.25.26
REVISIONS

JOB NO.
MKA-26-042-00
SHEET NO:

P1.1
0 1" 2"
24-060

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GAS PIPING IS SIZED USING TABLE 402.4(5) (7"WC) FROM THE 2021 INTERNATIONAL FUEL GAS CODE (SCH. 40 STEEL PIPING AT 2PSI INLET PRESSURE). THE LENGTH OF PIPING FROM THE BUILDING METER TO THE FURTHEST EQUIPMENT CONNECTION IS APPROXIMATELY 300'-0". ANY CHANGE IN MATERIALS OR ROUTING WILL REQUIRE RECALCULATION OF REQUIRED PIPE SIZES. FOR AN ADDITIONAL LOAD = 350 MBH LOAD

GAS SYSTEM SHALL BE INSTALLED BY A LICENSED GAS TECHNICIAN.

ALL GAS PIPING BELOW GRADE AND SLAB SHALL BE SLEEVED AND VENTED. TRACPIPE P-4L, BLACK STEEL OR EQUAL. ALL GAS PIPING ABOVE GRADE SHALL BE TRAC PIPE COUNTER STRIKE, BLACK STEEL OR EQUAL.

GAS PIPING EXPOSED (AREAS WITHOUT CEILINGS) SHALL BE PAINTED FLAT BLACK WITH ONE COAT OF PRIMER AND ONE COAT OF ENAMEL PAINT.

EXTEND RELIEF VENT CONNECTIONS FOR SERVICE REGULATORS, LINE REGULATORS, AND OVERPRESSURE PROTECTION DEVICES TO OUTDOORS AND TERMINATE WITH WEATHER PROOF VENT CAP.

FIRE STOP ALL PENETRATIONS OF FIRE RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS AND FLOORS.

ANY EXPOSED (AREAS WITHOUT CEILINGS) WATER PIPING TO BE INSULATED AND LABELED PER SPECIFICATION. PROVIDE ALUMINUM JACKET AND LABELS ON ALL EXPOSED LINES.

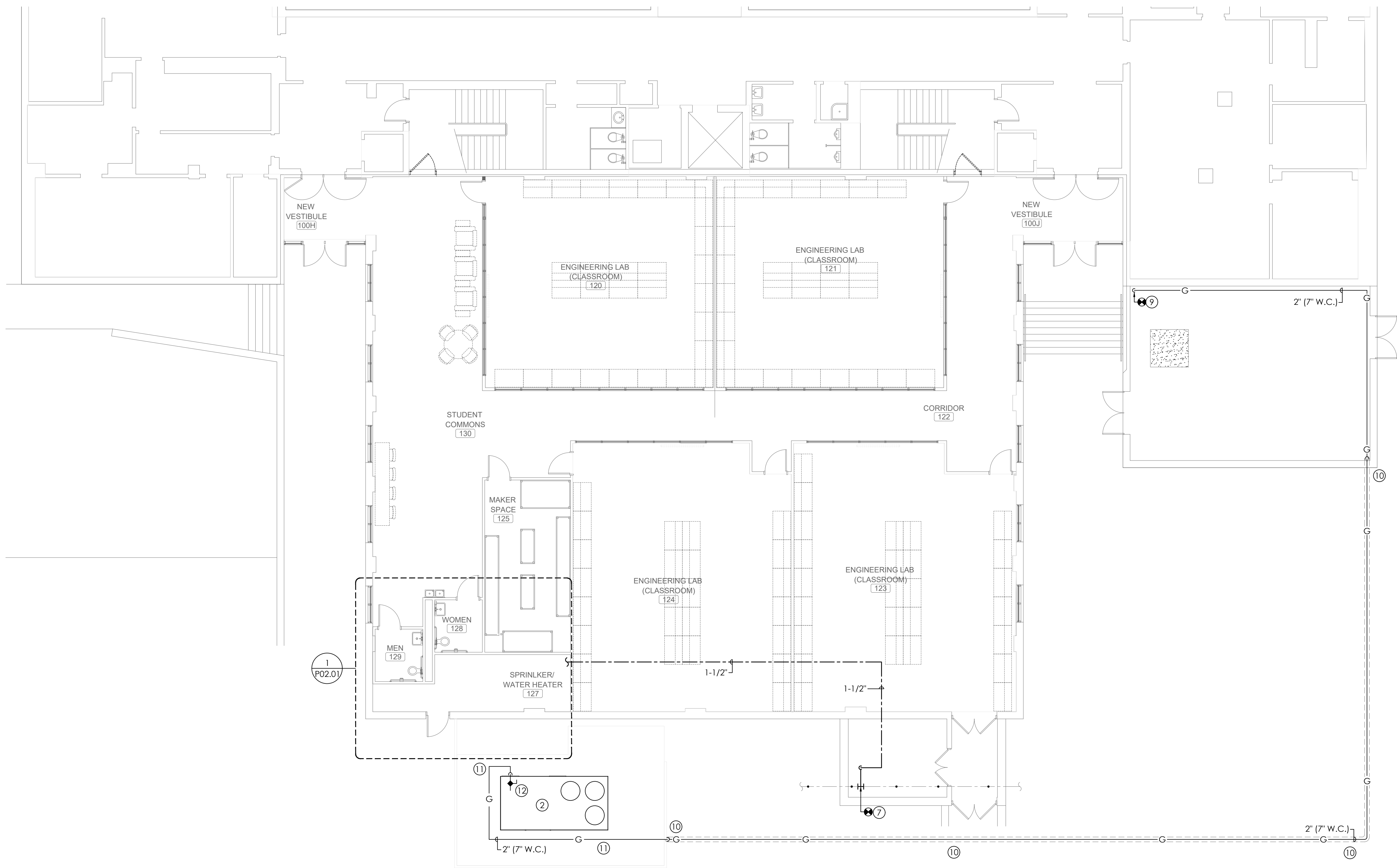
VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. LOCATE 24" MAX ABOVE CEILING. PLUMBER SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS MARK LOCATION OF VALVES ABOVE LAY-IN CEILINGS USING PLASTIC ENGRAVED LABEL WITH ADHESIVE BACKING LOCATED ON THE CEILING GRID COORDINATE WITH GENERAL CONTRACTOR.

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

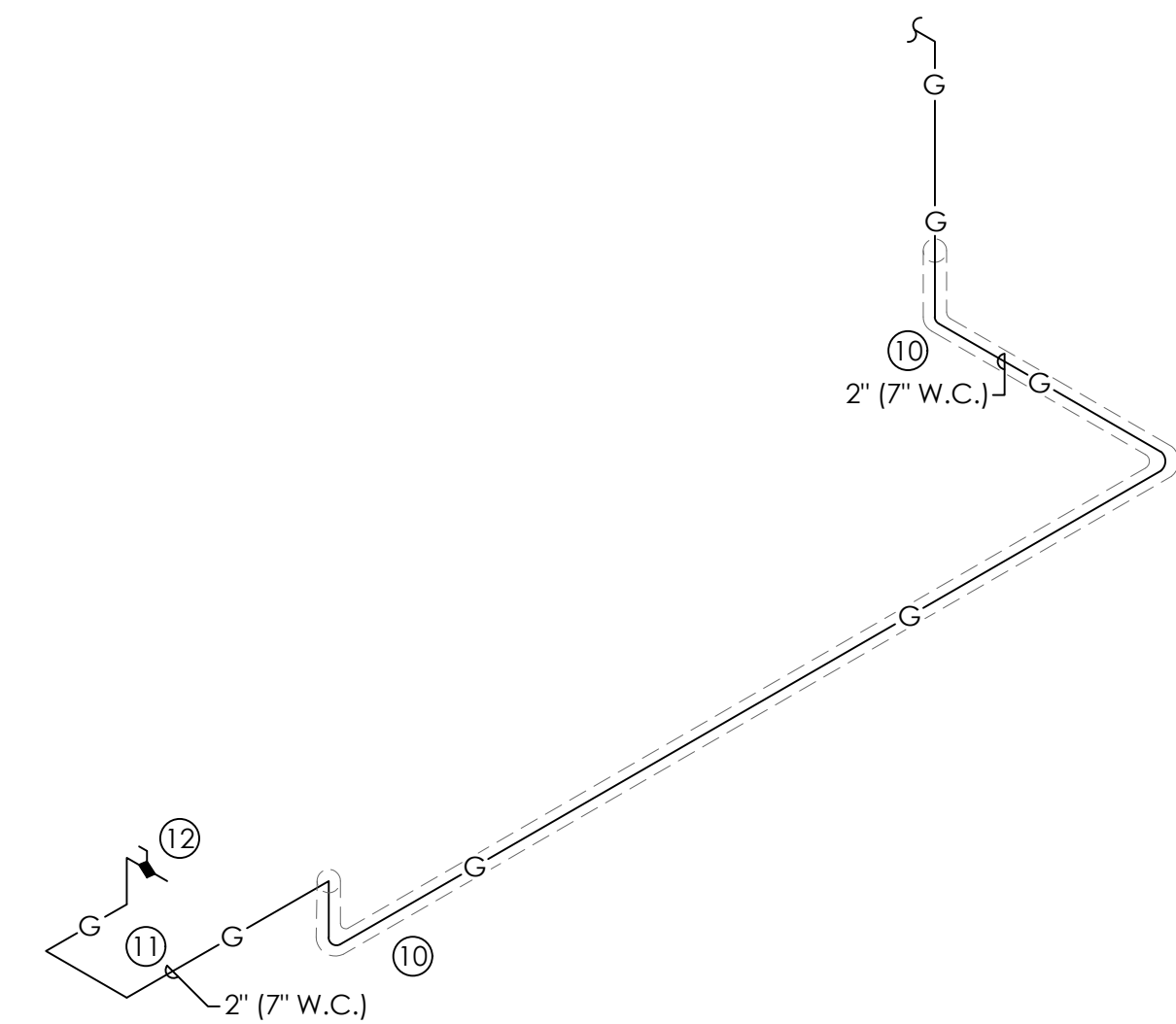
ALL WATER PIPING SHALL BE INSTALLED WITH 1" THICK FIBERGLASS INSULATION. LABEL ALL LINES AT EACH CHANGE OF DIRECTION. TAG ALL VALVES AND PROVIDE VALVE TAG CHART.

NOTE LEGEND: (THIS SHEET ONLY)

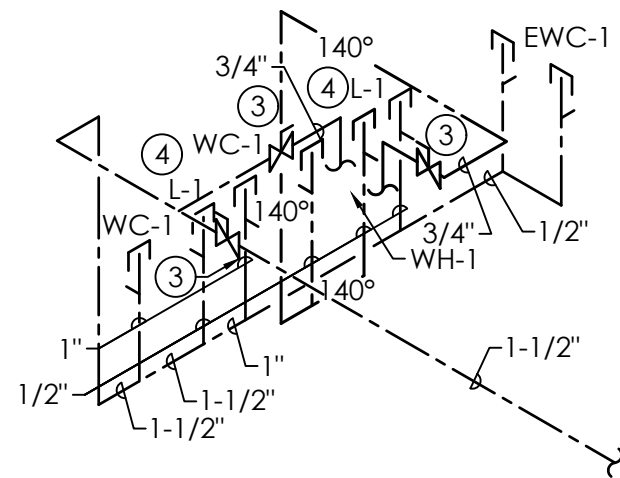
1. ELECTRICAL PANEL. MAINTAIN MINIMUM 42" CLEARANCE IN FRONT OF PANELS. PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
2. MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. BALL VALVE. LOCATE 24" MAX ABOVE CEILING. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
4. PROVIDE TEMPERATURE LIMITING VALVE BELOW FIXTURE. PROVIDE IN RECESSED ACCESS BOX WITH FINISHED FRAME. (SEE DETAIL) VALVE SHALL BE EQUAL TO ZURN ZW3870XL1, LEONARD 1700-L1-BKRT OR SIOUX CHIEF MODEL 696 UNDER SINK. (SHALL COMPLY WITH A.S.S.E. 1070)
5. EXTEND AND CONNECT TO EXISTING 6" C.W. LINE. FIELD VERIFY EXACT SIZE AND LOCATION.
6. BALL VALVE IN 24"X24"X6" CONCRETE VALVE BOX AND PRV. (PRV SET AT 60 PSI MAX. PRV SHALL BE WATTS SERIES 2300 OR APPROVED EQUAL)
7. CONNECT TO EXISTING WATER BELOW SLAB. (FIELD VERIFY EXACT LOCATION) (SAWCUT AND PATCH SLAB AS REQUIRED)
8. PUMP CONTROL PANELS (SEE FIRE PROTECTION)
9. CONNECT TO EXISTING GAS METER (350 MBH ADDITIONAL GAS LOAD)
10. GAS PIPE SLEEVED AND VENTED
11. GAS LINE ROUTED ON CONCRETE PAD. STRAP TO UNISTRUT SUPPORTS
12. GAS VALVE.



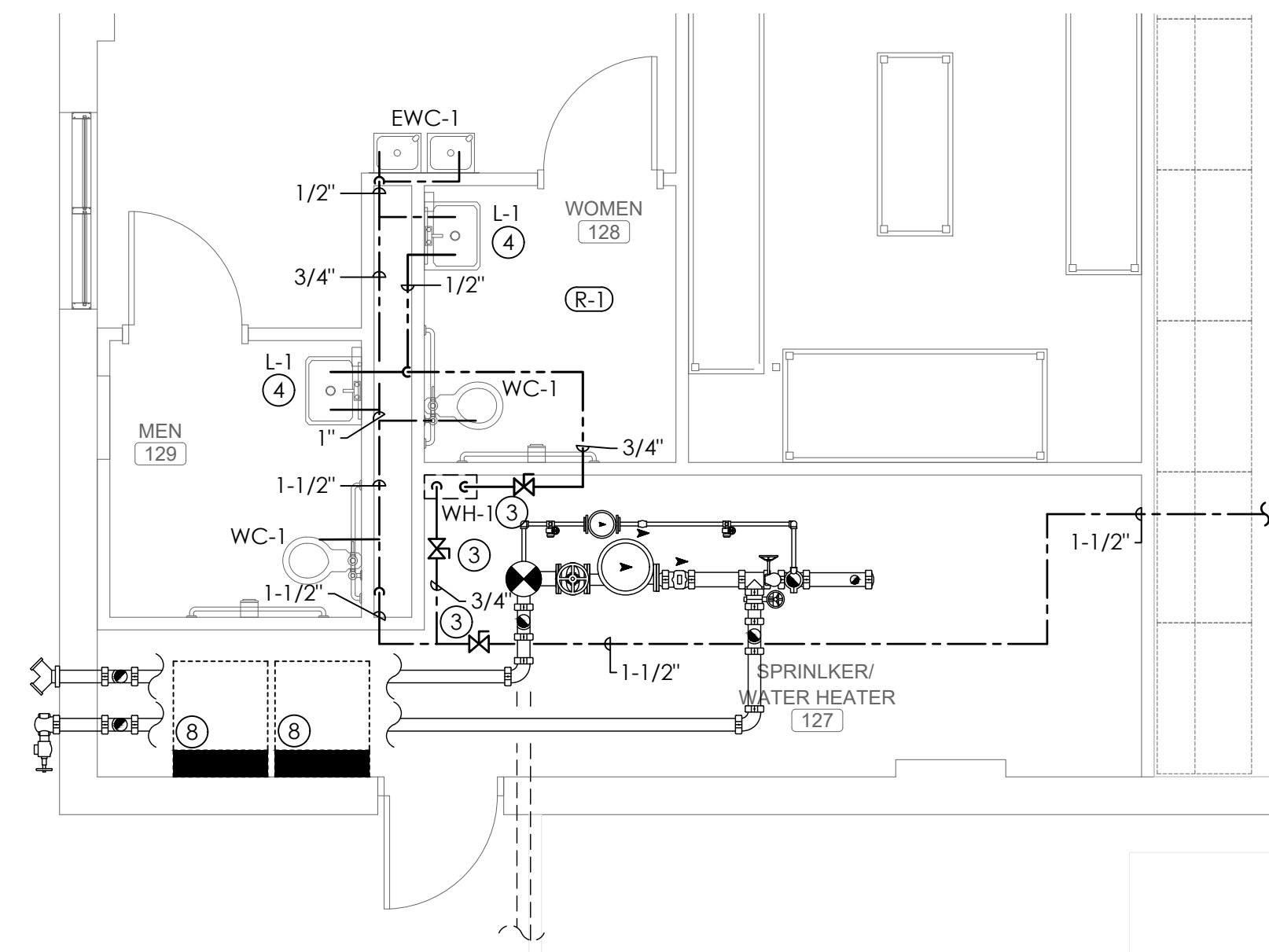
PLUMBING GAS/WATER PIPING FLOOR PLAN
SCALE: 1/8"=1'-0"



GAS PIPING RISER (GR-1)
NO SCALE



WASTE RISER (R-1)
NO SCALE

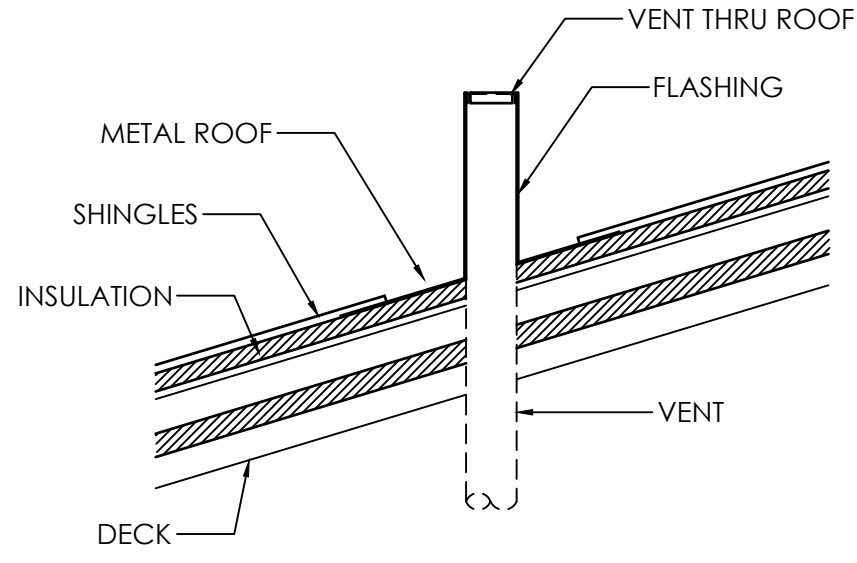


ENLARGED WATER PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

1. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
2. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
3. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH THE 2021 INTERNATIONAL PLUMBING CODE.
4. ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
5. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
6. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
7. ALL FLOOR DRAINS TO HAVE DEEP SEAL P-TRAPS.
8. INSTALL WATER HAMMER ARRESTORS AS FOLLOWS:
A. LAY IN CEILING; MOUNT WATER HAMMER ARRESTOR ABOVE CEILING FOR ACCESS.
B. SHEETROCK CEILING; MOUNT WATER HAMMER ARRESTOR IN CHASE WALL. PROVIDE 12" X 12" STAINLESS STEEL ACCESS PANEL IN WALL.
9. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS. COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES. STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
10. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
11. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS.
12. MAINTAIN A MAXIMUM OF 55 PSIG WATER PRESSURE AT PLUMBING FIXTURES, CONSISTENT WITH ADEQUATE FLOW RATES.
13. ALL WASTE AND VENT IN CORRIDOR WALLS, RATED WALLS OR RETURN AIR PLENUMS TO BE CAST IRON PIPE.
14. ALL VTR'S TO BE CAST IRON [3'-0" MIN. LENGTH] AT ROOF PENETRATION. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.
15. SUPPORT PIPE AS REQUIRED BY THE 2021 INTERNATIONAL PLUMBING CODE.
16. FIRESTOP ALL RATED WALLS AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
17. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
18. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE OR ON FLAT ROOF (AS SHOWN).
19. ALL CEILING ACCESS PANELS SHALL BE PAINTED TO MATCH CEILING.
20. PROVIDE FIRESTOPPING ASSEMBLIES AT ANY AND ALL FIRE-RATED PENETRATIONS. EQUAL TO ROXTEC. REDUCTION OF LEAD IN DRINKING WATER ACT WENT INTO EFFECT JANUARY 4, 2014.
21. DO NOT BEGIN WORK UNTIL THE FINAL CONNECTION POINTS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).
22. PROVIDE 12"X12" CEILING ACCESS PANEL (MI FAB OR EQUAL) TO MATCH CEILING FOR ALL VALVES IF LOCATED IN TILE CEILING AREA. (TYPICAL)
23. ALL PLUMBING PRODUCTS THAT COME INTO CONTACT WITH POTABLE (DRINKABLE) WATER SHALL COMPLY WITH SAFE DRINKING WATER ACT (SDWA) AND THE REDUCTION OF LEAD IN DRINKING WATER. REDUCTION OF LEAD IN DRINKING WATER ACT WENT INTO EFFECT JANUARY 4, 2014.
24. THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
25. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
26. THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
27. COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
28. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER

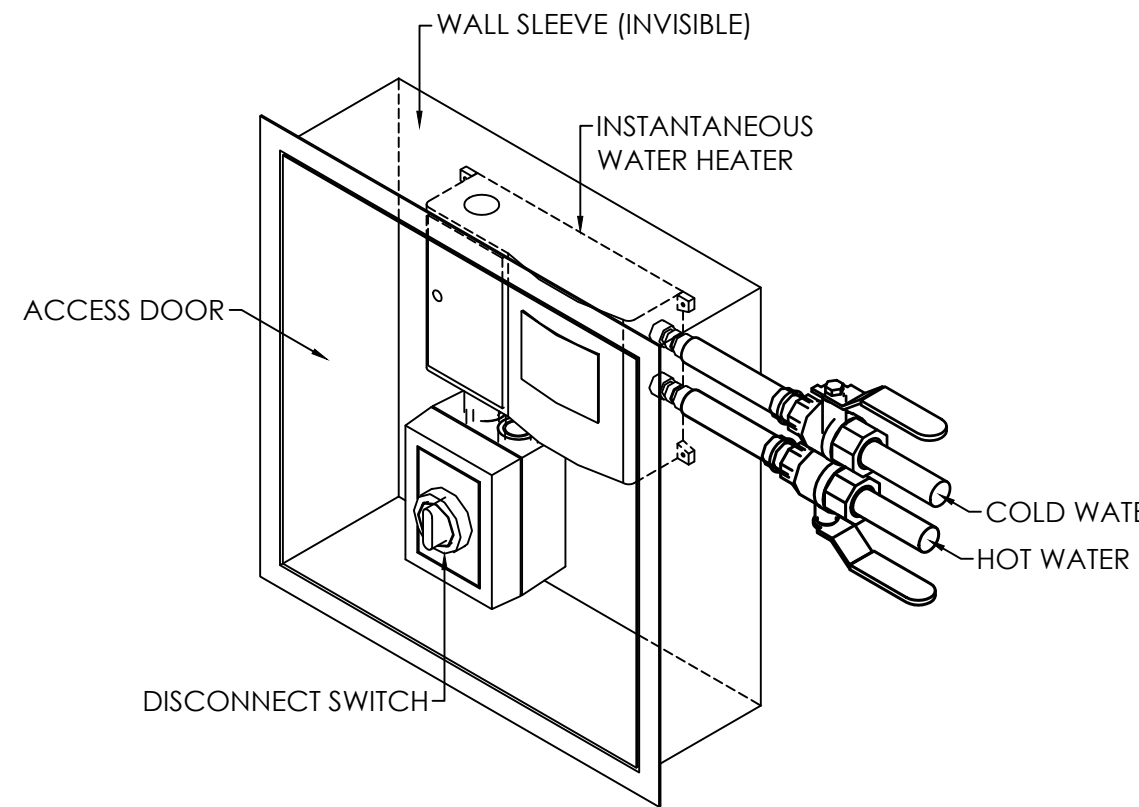
- TRADES. ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
29. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE DEVICE.
 30. PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES.
 31. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
 32. WHERE DISSIMILAR PIPING MATERIALS (STEEL AND COPPER) ARE CONNECTED, INSTALL A THREADED BRASS NIPPLE FOR PIPE SIZES 2" AND LESS. FOR PIPE SIZES 2-1/2" AND ABOVE, INSTALL ISOLATING FLANGES. DIELECTRIC UNIONS ARE NOT TO BE USED EXCEPT AT THE WATER HEATERS.
 33. ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING PIPING AND FITTINGS.
 34. ALL PLUMBING FIXTURES SHALL BE WHITE. (UNLESS STATED OTHERWISE)
 35. INSTALL "TRAPGUARD" FOR FLOOR DRAINS IN BATHROOMS, RESTROOMS, AND JANITOR ROOMS. ALL FLOOR DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS AND "TRAPGUARD". (NO EXCEPTIONS). PROVIDE TRAP PRIMERS FOR ALL MECHANICAL DRAINS.
 36. PROVIDE APPROVED BACKFLOW PREVENTION AT ALL EQUIPMENT DIRECTLY CONNECTED TO WATER SYSTEM.
 37. PROVIDE CLEANOUTS EVERY 75'-0" OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE. COORDINATE LOCATIONS WITH ARCHITECT.
 38. PROVIDE PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHALL BE SET TO 60 PSI. PROVIDE PRV AT EVERY BUILDING SUPPLY.
 39. THESE PLANS (ALL PLUMBING SHEETS) ARE SCHEMATIC IN NATURE AND ARE INTENDED TO ESTABLISH SIZE, GENERAL ROUTING, LOCATION, PERFORMANCE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. ALL WORK SHALL BE FULLY COORDINATED WITH OTHER TRADES TO INSURE THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM THAT FITS IN THE SPACE ALLOTTED. PROVIDE ALL LABOR, EQUIPMENT, APPURTENANCES AND MATERIALS NECESSARY, AND PERFORM ALL OPERATIONS REQUIRED FOR THE INSTALLATION OF COMPLETE, FUNCTIONAL PLUMBING SYSTEMS AS OUTLINED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
 40. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES. (2021 IBC AND 2021 IPC)
 41. VERIFY ALL POINTS OF CONNECTION WITH OTHER DISCIPLINES (LOCATION AND INVERT) PRIOR TO INSTALLATION. THIS SHALL INCLUDE EXISTING SITE UTILITIES AS WELL AS NEW SITE UTILITIES INSTALLED UNDER THE SCOPE OF WORK FOR THIS PROJECT.
 42. COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, ELECTRICAL LIGHTING AND STRUCTURE IN THE CEILING PLENUMS.
 43. WHEN / IF A CONFLICT EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE HIGHER STANDARD / DIRECTION SHALL APPLY. THE FINAL DECISION SHALL BE MADE BY THE ARCHITECT AND / OR ENGINEER. THE HIGHER PRICE SHALL BE INCLUDED IN THE BID PRICE.
 44. COORDINATE ALL DWV PIPING WITH THE JOIST LAYOUT BELOW. COORDINATE THROUGH THE ARCHITECT, GENERAL CONTRACTOR, THIS SET OF CONSTRUCTION DOCUMENTS (STRUCTURAL / ARCHITECTURAL) ETC. THERE WILL NOT BE ANY CHANGE ORDERS ISSUED OR PAID FOR GENERAL / REQUIRED OFFSETS DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE STRUCTURE PRIOR TO BID. THE SUBMITTED BID PRICE SHALL HAVE A ALLOWANCE FOR ALL REQUIRED OFFSETS, ETC.
 45. COORDINATE MIN. SLOPE FOR SANITARY SEWER WITH THE IN ELEVATIONS. PROVIDE 1/8" PER FOOT MIN. SLOPE IF ELEVATION WILL ALLOW.
 46. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL PLANS.
 47. ALL VENT PIPING SHALL BE ATTACHED TO WALL NO FURTHER THAN 3'-0" AWAY.



NOTE: ALL VENTS THRU ROOF (V.T.R.) SHALL BE INSTALLED SO THAT THE TOP 3'-0" MINIMUM IS CAST IRON AT ROOF PENETRATION.
* PAINT V.T.R. TO MATCH ROOF. PROVIDE SUPPORT AT ELBOW BELOW V.T.R.

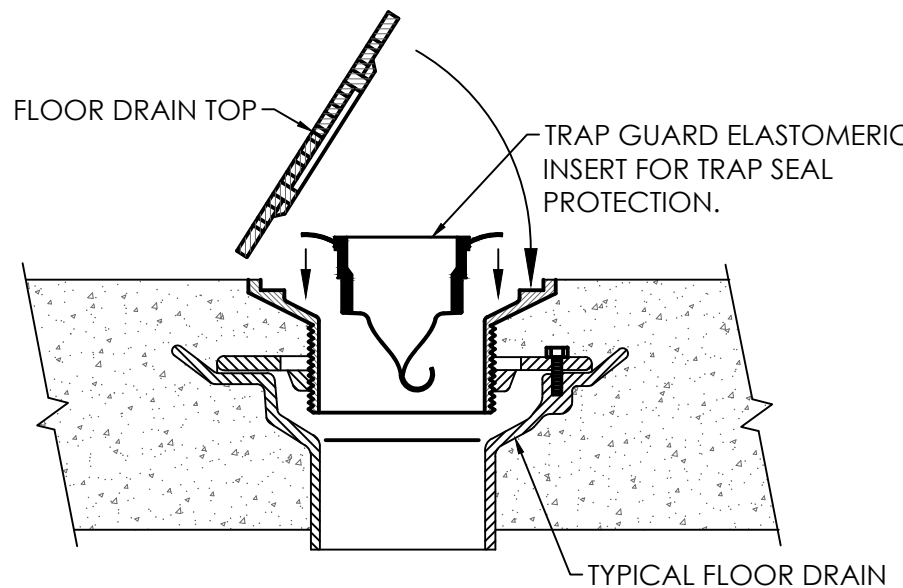
VENT THRU ROOF DETAIL

NO SCALE



INSTANTANEOUS WATER HEATER CONNECTION DETAIL

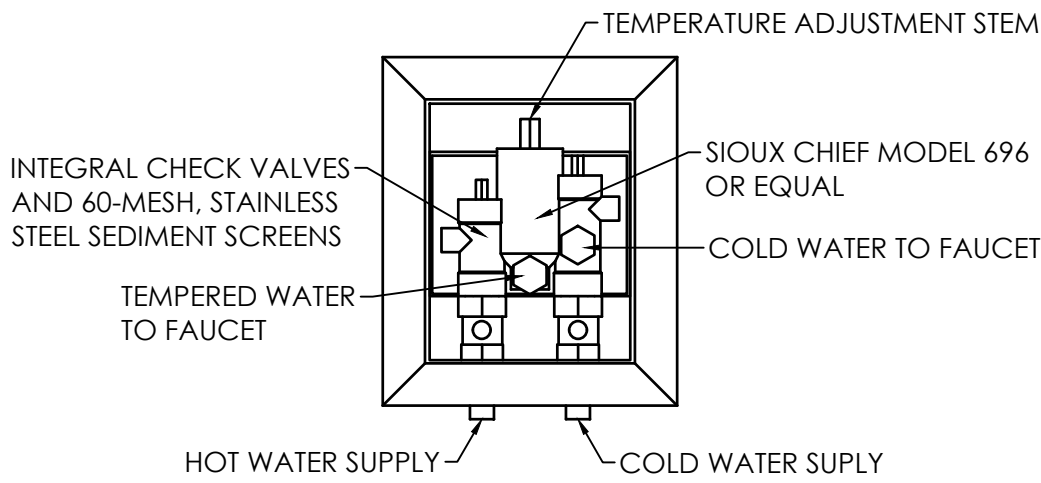
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NOTE: PROVIDE TRAP SEAL PROTECTION FOR ALL FLOOR DRAINS, HUB DRAINS, FLOOR SINKS AND INDIRECT DRAINS. INSTALL AND SEAL TRAP GUARD ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

TRAP GUARD DETAIL - FLOOR DRAIN

NO SCALE

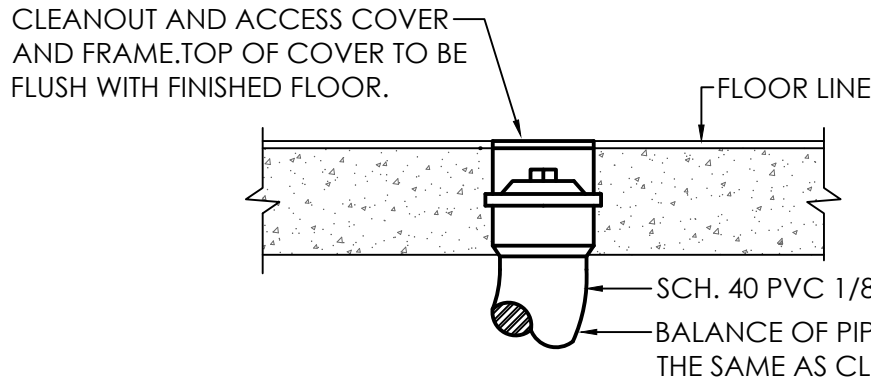


HOT INLET TEMPERATURE: 140°F
COLD INLET TEMPERATURE: 39°F - 80°F
TEMPERATURE OUT: 110°F

NOTE: MOUNT UNDER LAVATORY OR SINK. PROVIDE SUPPORT BRACKET. MOUNT IN WALL. PROVIDE IN RECESSED ACCESS BOX (WITH STAINLESS STEEL ACCESS PANEL) WITH FINISHED FRAME (NO EXCEPTIONS)

TEMPERATURE LIMITING VALVE IN WALL BOX DETAIL

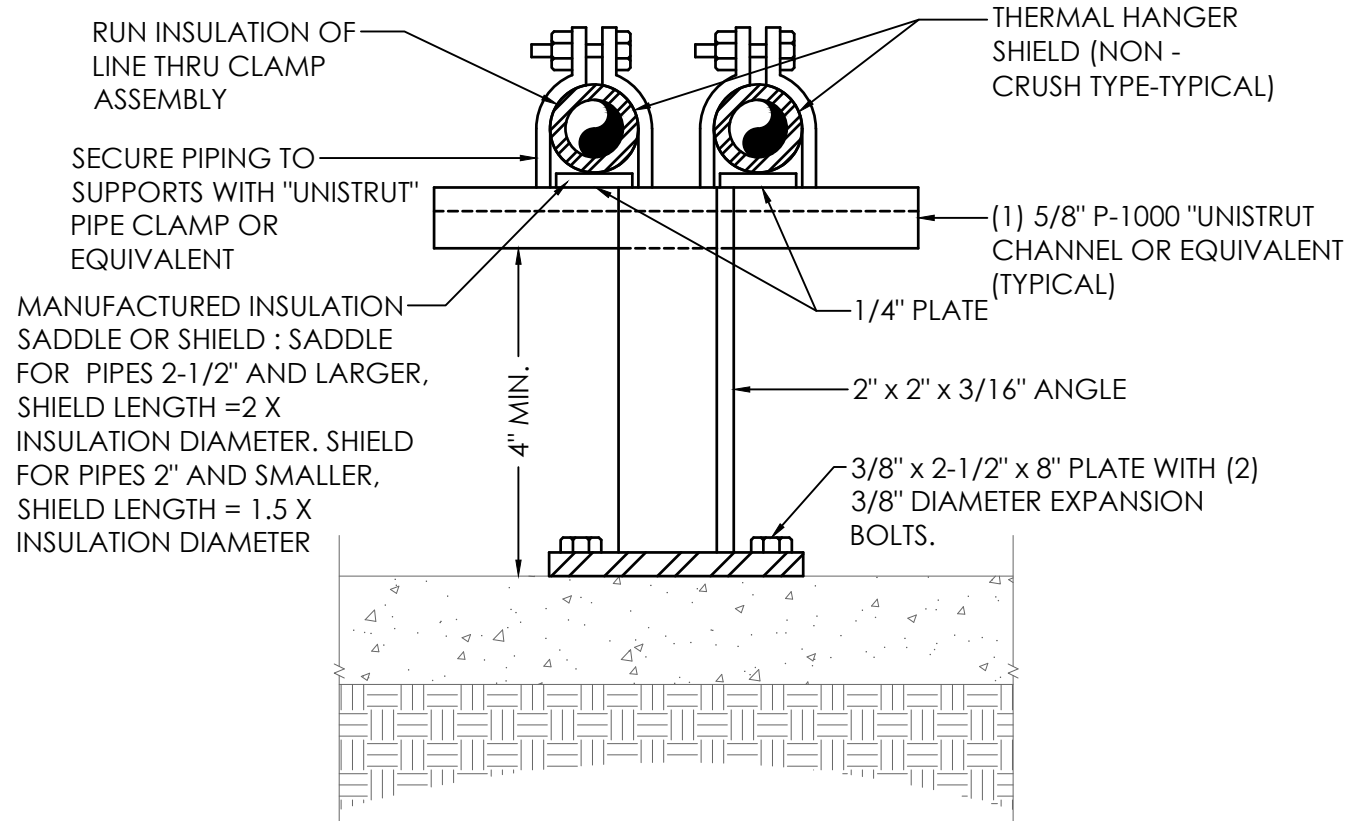
NO SCALE



FLOOR CLEANOUT DETAIL (FCO)

NO SCALE

CLEANOUT SHALL NOT BE LOCATED IN ANY CARPETED AREAS.

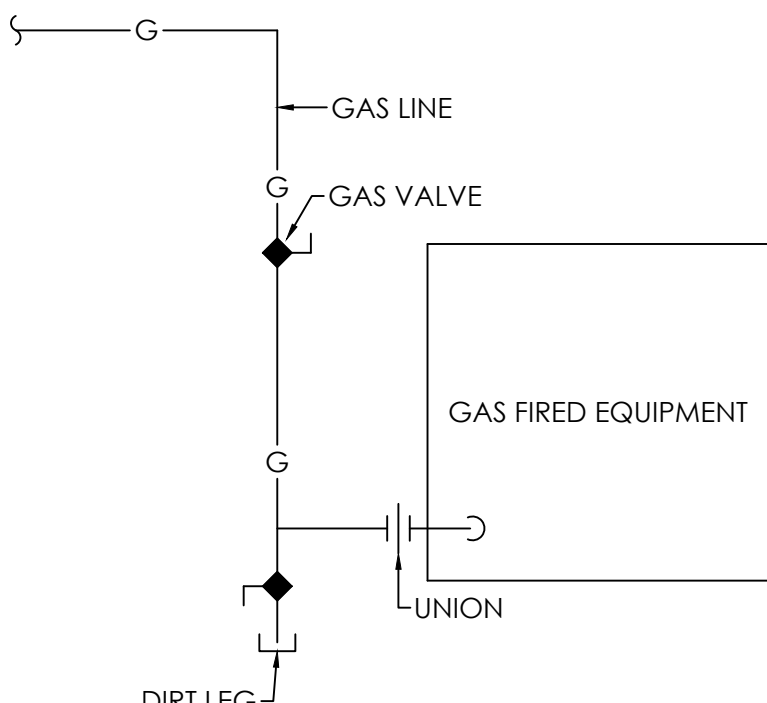


NOTE: PAINT ANGLE SUPPORTS TO MATCH BUILDING FACE BRICK COLOR (TYPICAL)

EXTERIOR PIPE SUPPORT DETAIL

NO SCALE

(NOTE: PROVIDE PREFAB 90° ELBOW ALUMINUM COVER)



TYPICAL GAS CONNECTION DETAIL

NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	COLD	HOT	WASTE	REMARKS
WC-1	WATER CLOSET (H/C) *	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE (H/C)
L-1	LAVATORY (H/C) **	1/2"	1/2"	1-1/4"	WALL HUNG, HANG 34" RIM TO FINISHED FLOOR
EW-C-1	ELECTRIC WATER COOLER (H/C) (B-LEVEL) ***	1/2"	---	1/2"	WALL HUNG, HANG 36" SPOUT TO FINISH FLOOR ON H/C SIDE

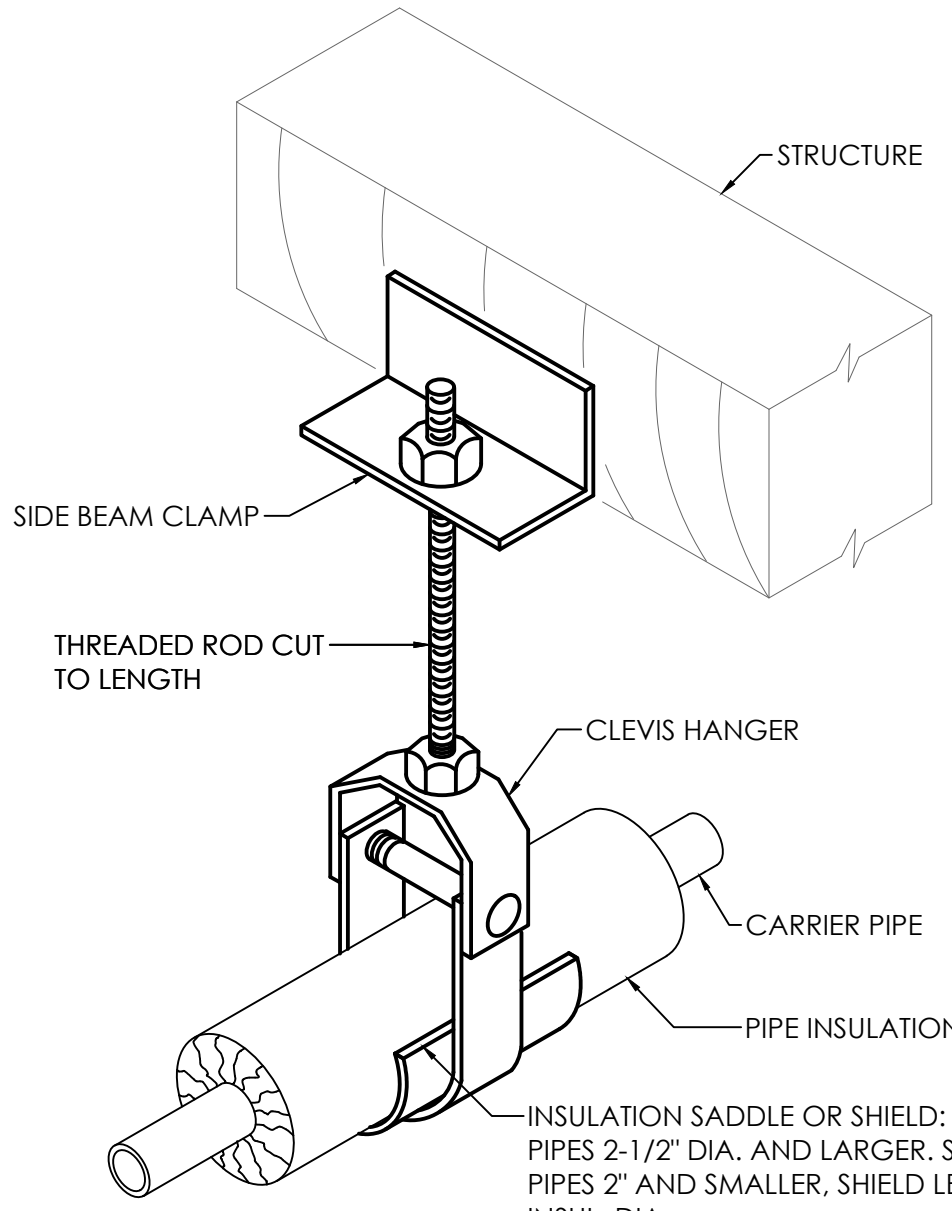
FIXTURE SCHEDULE NOTES:

- * HANDLE TO WIDE SIDE OF STALL.
- ** INSULATE P-TRAP, DRAIN AND SUPPLIES WITH HANDI LAY GUARD INSULATION KIT # 102W OR EQUAL BY TRAP WRAP AND MCGUIRE PRO WRAP.
- *** PROVIDE WITH STAINLESS STEEL FINISH AND SAFETY BUBBLER LEAD FREE.

WATER HAMMER ARRESTOR SCHEDULE

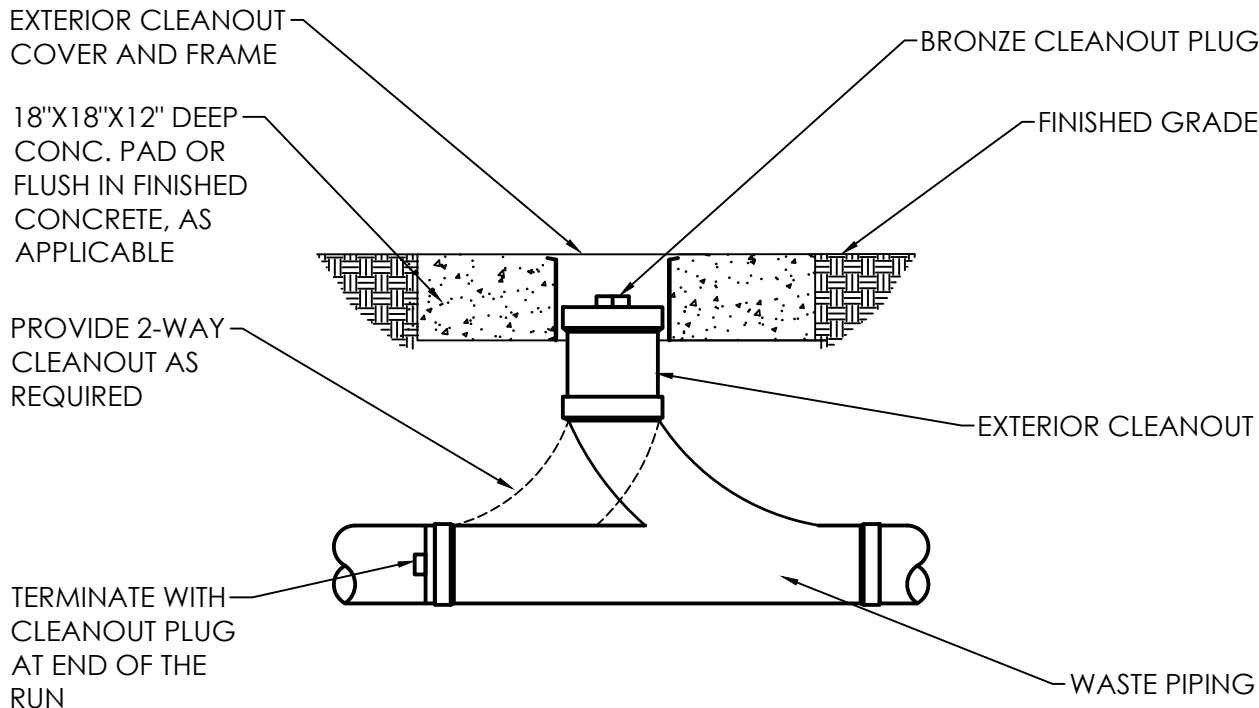
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

PROVIDE ACCESS FOR SERVICE.



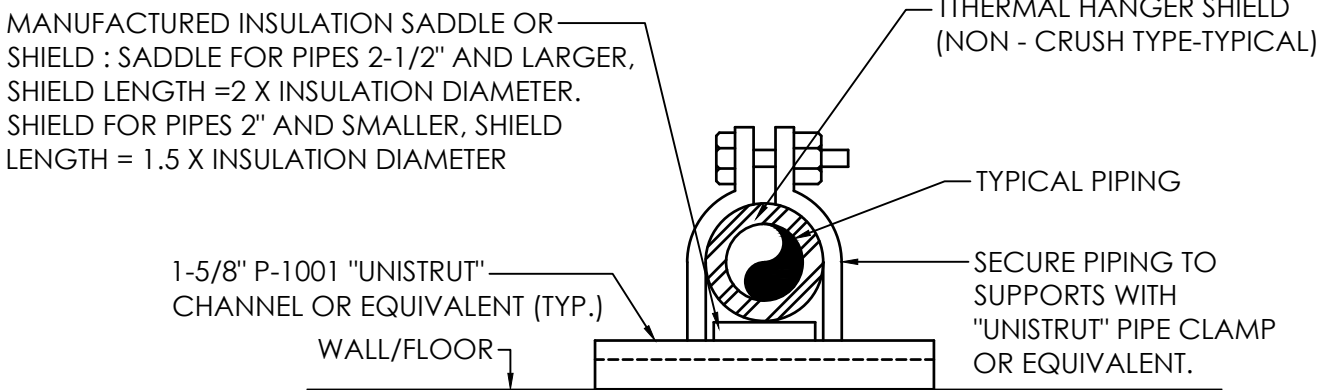
PIPE HANGER DETAIL

NO SCALE



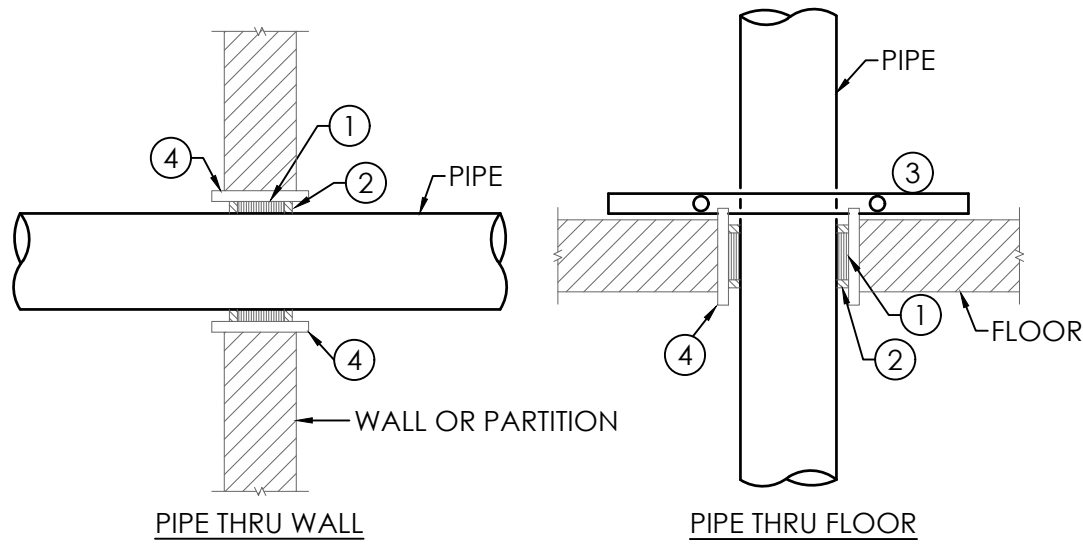
TYP. EXTERIOR CLEANOUT DETAIL

NO SCALE



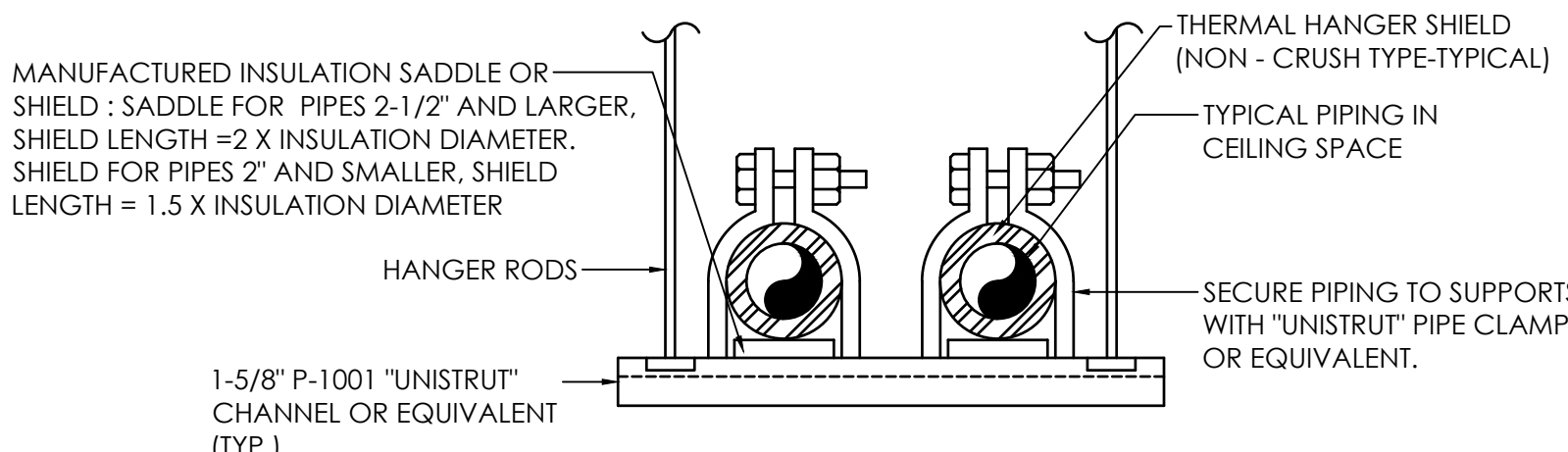
PIPING SUPPORT AT WALL/FLOOR DETAIL

NO SCALE



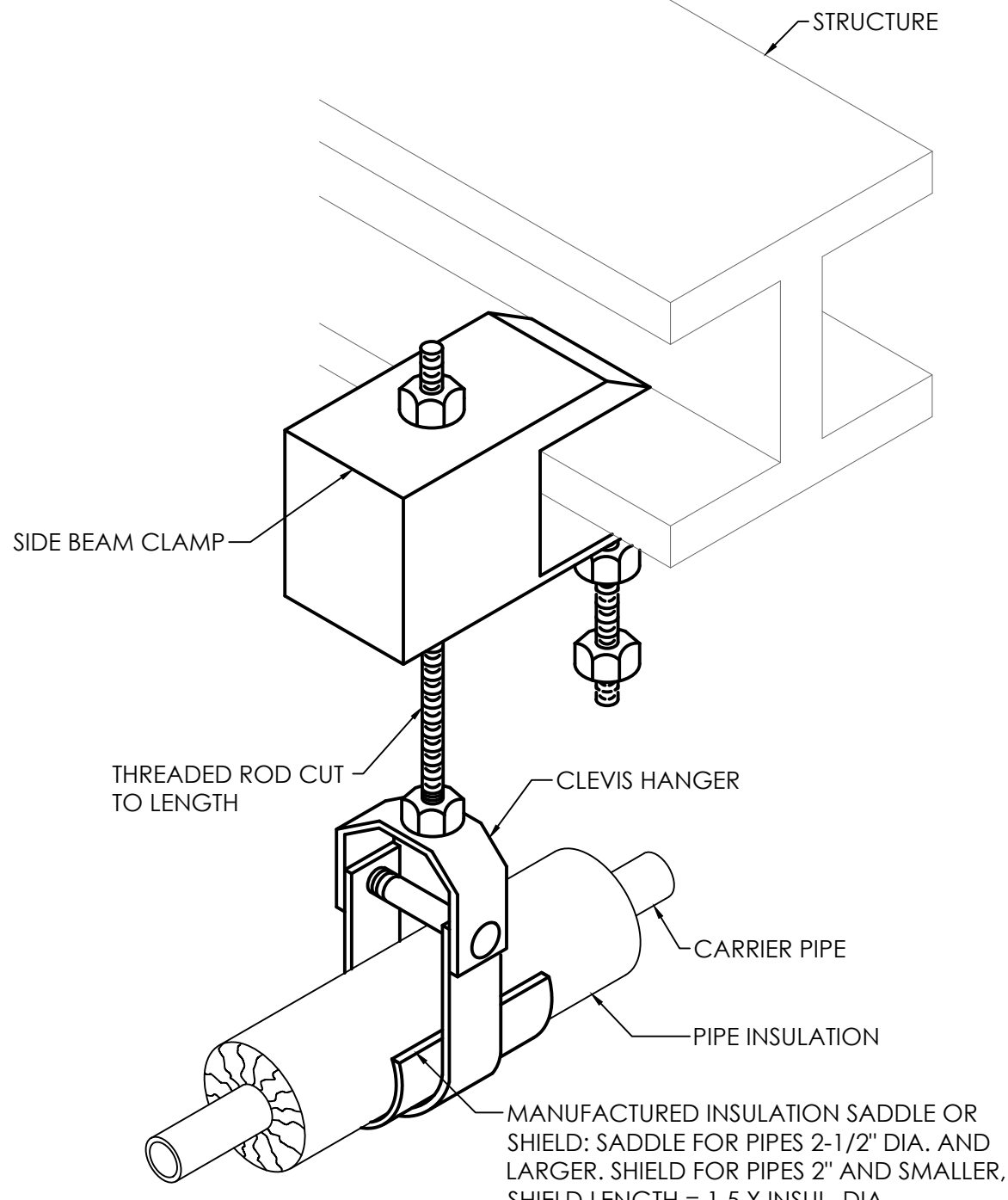
PIPE THRU STRUCTURE DETAIL

NO SCALE



SUSPENDED PIPING SUPPORT AT CEILING DETAIL

NO SCALE



PIPE HANGER DETAIL

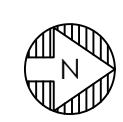
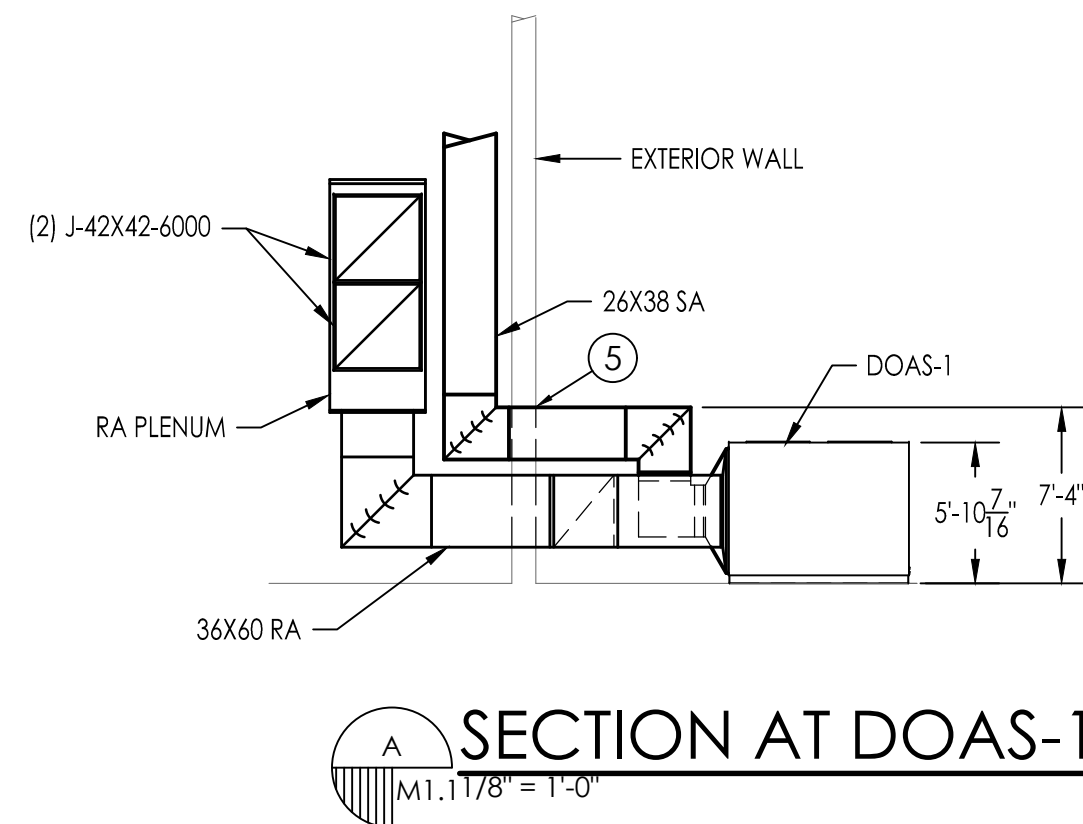
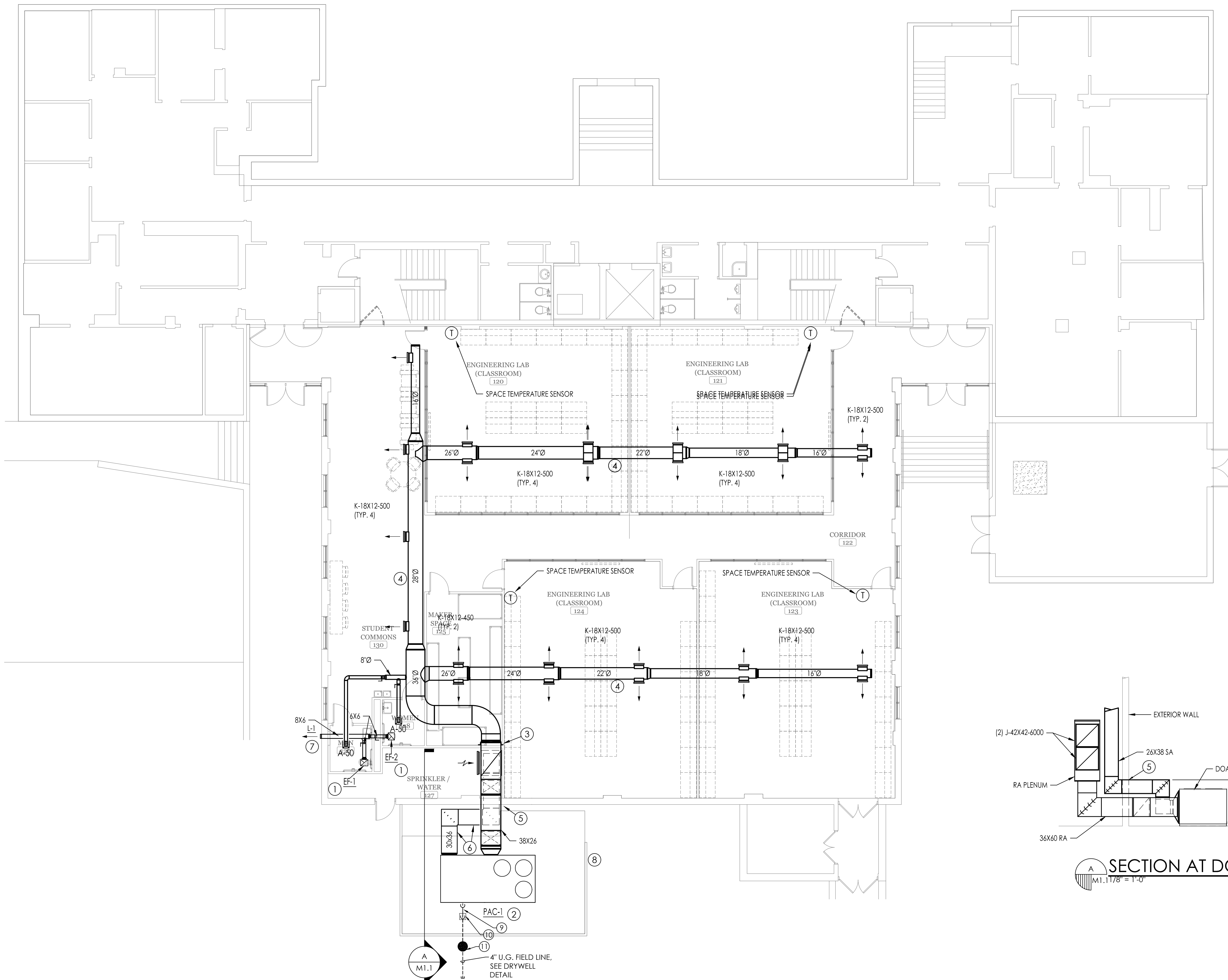
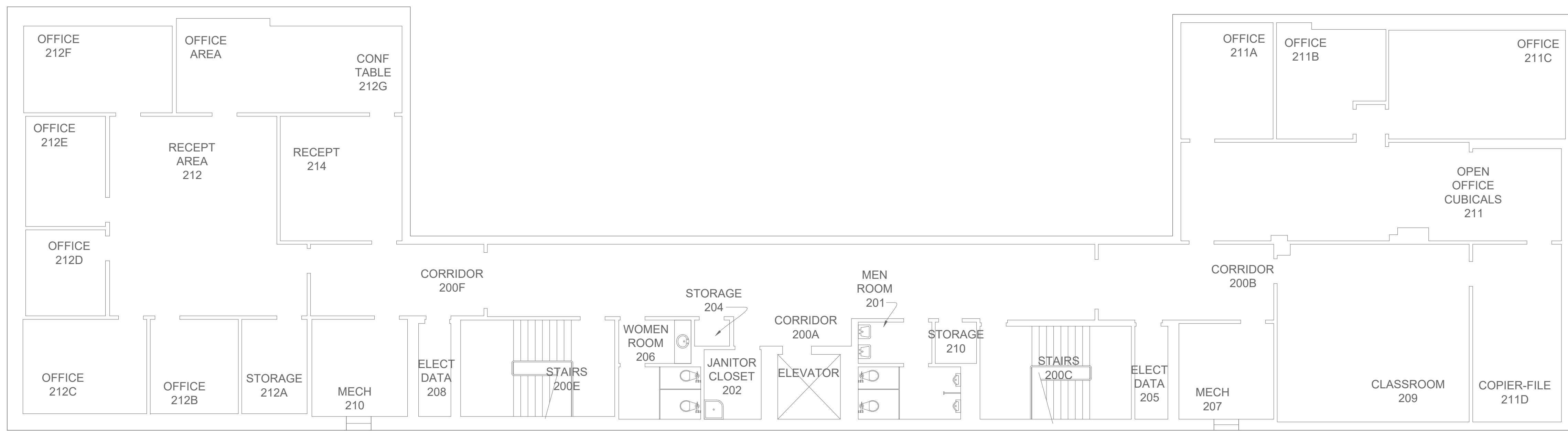
NO SCALE

MECHANICAL GENERAL NOTES

- CONTRACTOR SHALL PROVIDE ACCESS DOORS TO ALL FIRE RATED ASSEMBLIES (I.E. FIRE DAMPERS, CEILING RADIATION DAMPERS, ETC.) COORDINATE LOCATION OF ALL DOORS WITH LIGHTING, STRUCTURAL, PLUMBING, ETC. PRIOR TO ORDERING OR INSTALLING.
- VERIFY LOCATION OF ALL THERMOSTATS AND WALL CONTROLS WITH ARCHITECT BEFORE INSTALLATION.

NOTE LEGEND: (THIS SHEET ONLY)

- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL EXHAUST FAN SYSTEM SUSPENDED FROM STRUCTURE WITH ALUMINUM GRILLE IN CEILING.
- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL PACKAGED UNIT WITH GAS HEAT, PROVIDE FACTORY DEHUMIDIFICATION, MOUNT EQUIPMENT ON 4" THICK CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLING EQUIPMENT. ROUTE CONDENSATE TO DRYWELL. SEE DETAILS. PROVIDE SPACE TEMPERATURE SENSORS AND DUCT MOUNTED HUMIDITY AND CO2 SENSORS.
- PROVIDE WALL SLEEVE AND FINISHED ESCUTCHEON WALL PLATE WHERE EXPOSED DUCTWORK PENETRATES WALL (TYPICAL AT ALL AREAS).
- EXPOSED DUCTWORK IN THIS AREA, ROUND DOUBLE WALL (1" INSULATION) SPIRAL DUCTWORK, PERFORATED INTERNAL LINER. COORDINATE DUCTWORK WITH LIGHTS TO AVOID CONFLICT AND DIRECT AIR DISCHARGE SO THAT AIR WILL NOT BLOW DIRECTLY ON LIGHTS OR HANGERS. ROUTE DUCTWORK TIGHT TO STRUCTURE. DUCTWORK TO BE FIELD PAINTED WITH PAINT GRIP FINISH. DUCTWORK TO BE PAINTED PRIOR TO INSTALL. COORDINATE EXACT COLOR WITH ARCHITECT. SEE DETAIL.
- PROVIDE FLASHING AND COUNTER FLASHING AROUND DUCTWORK WHERE IT PENETRATES THRU WALL. SEAL WATER TIGHT. (TYPICAL FOR ALL AREAS).
- ALL EXTERIOR DUCTWORK SHALL BE STANDARD GALVANIZED WITH 2" FIBER-BOARD ON EXTERIOR OF DUCTWORK. PROVIDE 1" ELASTOMERIC LINER IN THE SUPPLY DUCTWORK AND 1" FIBERGLASS LINER IN THE RETURN DUCTWORK. COVER EXTERIOR OF FIBER-BOARD WITH ALUMINUM GUARD.
- PROVIDE AND INSTALL A UNED SHEET METAL PLENUM BEHIND LOUVER FULL SIZE OF LOUVER. PROVIDE AND INSTALL AN 1/2" PAINTED SHEET METAL RAIN CAP MOUNTED ON WALL OVER LOUVER. PROVIDE DARK BRONZE BAKED ENAMEL FINISH - VERIFY FINISH WITH ARCH./OWNER PRIOR TO PAINTING AND INSTALLATION.
- SCREENED WALL. SEE ARCHITECTURAL DWGS.
- PROVIDE 1" HARD COPPER CONDENSATE PIPING AT EXPOSED AREAS. PROVIDE MAPA SINGLE POST PIPE SUPPORTS WITH VERTICAL ADJUSTMENT TO ALLOW GRAVITY DRAIN FOR CONDENSATE PIPING (OR APPROVED EQUAL) PROVIDE SUPPORTS EVERY 3'-0" OR ANY CHANGE IN DIRECTION. SECURE PIPE SUPPORTS TO CONCRETE. PROVIDE DROP DOWN UNDERGROUND TO DRYWELL. PROVIDE BORDER AROUND CONDENSATE DROP DOWN TO PROTECT PIPING FROM LANDSCAPING EQUIPMENT.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR "TYPICAL MECH. PAD CONDENSATE EQUIPMENT PAD" LOCATION. PROVIDE 12"X12" CONCRETE BORDER AROUND CONDENSATE LINE DROP DOWN TO PROTECT PIPING FROM LANDSCAPING EQUIPMENT. FILL INSIDE CONCRETE BARRIER WITH #57 STONE GRAVEL. RUN CONDENSATE IN 6" DIA. PLASTIC SERVICE PIPE. CONDENSATE TO DROP DOWN THRU EQUIPMENT PAD.
- PROVIDE DRYWELL FOR CONDENSATE. SEE DETAILS.



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

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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MECHANICAL GENERAL NOTES

- THESE DRAWINGS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE AND OPERATIONAL HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF THE OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- REFER TO CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHT FIXTURES. IF A PARTICULAR ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ENGINEER FOR THEIR REVIEW AND/OR APPROVAL.
- ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- ALL FAN MOTORS 1/8 HP AND ABOVE SHALL HAVE A DISCONNECT SWITCH MOUNTED AT THE FAN.
- ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH 1-1/2" X 1-1/2" X 1/8" GALVANIZED STEEL ANGLES BOLTED OR RIVETED 6" ON THE CENTER (MAX.) ALL AROUND THE EXTERIOR PERIMETER OF THE DUCT.
- MOUNT THERMOSTATS 48" A.F.F. UNLESS NOTED OTHERWISE. SEE MECHANICAL DRAWINGS FOR LOCATIONS, WHERE THERE IS A CONFLICT OF LOCATIONS BETWEEN THE DRAWINGS, NOTIFY THE ARCHITECT IMMEDIATELY. VERIFY EXACT LOCATION BEFORE INSTALLATION.
- ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE DIFFUSER SERVED UNLESS NOTED OTHERWISE.
- PROVIDE INTERNAL INSULATION (1" THICK FIBERGLASS) FOR SUPPLY, RETURN, AND OUTDOOR AIR DUCTS WITHIN 20' OF EACH INDOOR AIR HANDLING UNIT (UNLESS NOTED OTHERWISE), FAN, ETC. ALL OTHER DUCTWORK SHALL BE INSULATED WITH 2" THICK, FOIL BACKED 3/4 LB. DENSITY BLANKET INSULATION UNLESS NOTED OTHERWISE.
- CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. ALL CONDENSATE LINES SHALL BE INSULATED.
- WHERE MECHANICAL EQUIPMENT OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL IDENTIFY THE PANEL WITH A 3/8" #8 ROUND HEAD SELF-THREADING SCREW, SCREWED INTO THE PANEL WITH ONLY THE HEAD SHOWING. BEFORE INSERTING, PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR, ADJUST FOR LINER. IN ADDITION TO OFFSETS IN DUCTWORK SHOWN, PROVIDE OFFSETS REQUIRED TO MAINTAIN TOP OF DUCTWORK AND PIPING TIGHT TO STRUCTURE.
- DUCTS AND EQUIPMENT WITH STANDING BRACES SHALL BE ARRANGED SO THAT THE BRACES WILL NOT BE OVER LIGHTS OR UNDER BEAMS IN AREAS WHERE THE CLEARANCE BETWEEN LIGHTS AND BEAMS IS LIMITED.
- EACH CEILING OR WALL DIFFUSER INDICATED SHALL HAVE RECTANGULAR TO ROUND TAKE-OFF WITH STANDING BRACKET AND MANUAL VOLUME CONTROL DAMPER AT THE SHEET METAL TRUNK DUCT SUCH THAT AIR CAN BE BALANCED.
- DUCTWORK SHALL BE IN ACCORDANCE WITH THE LATEST SMACNA STANDARD. SEAL ALL JOINTS WITH HARDCAST PRIOR TO INSULATING.
- VERIFY EXACT LOCATION OF CONTROLS AND THERMOSTATS WITH ARCHITECT BEFORE WIRING AND INSTALLATION.
- ALL WALL SUPPLY AND RETURN AIR GRILLES SHALL BE CENTERED SYMMETRICALLY.
- COORDINATE THE LOCATION OF ALL FLOOR DRAINS REQUIRED FOR MECHANICAL EQUIPMENT WITH PLUMBING CONTRACTOR TO INSURE PROPER LOCATION FOR SERVICE TO UNIT.
- THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ALL WALL, FLOOR, AND ROOF OPENINGS (DIMENSIONS AND LOCATIONS). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OPENINGS IN THE STRUCTURE. COORDINATE THE LOCATION OF FLOOR DRAINS WITH MECHANICAL EQUIPMENT PRIOR TO ROUGHING IN OR PLACEMENT OF MECHANICAL EQUIPMENT.

AIR DISTRIBUTION SCHEDULE

SYMBOL	MAX. N.C. SONES	MAX. VEL. FPM	MODEL	DESCRIPTION	REMARKS
A	25	500	TITUS TDCA-AA	6'X6' LOUVERED FACE DIFFUSER (6" R NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,6
B	25	500	TITUS TDCA-AA	8'X8' LOUVERED FACE DIFFUSER (8" R NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,7
C	25	500	TITUS TDCA-AA	10'X10' LOUVERED FACE DIFFUSER (10" R NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,8
D	25	500	TITUS TDCA-AA	12'X12' LOUVERED FACE DIFFUSER (12" R NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,9
E	25	500	TITUS TDCA-AA	14'X14' LOUVERED FACE DIFFUSER (12" R NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,9
F	25	500	TITUS TDCA-AA	24'X24' LOUVERED FACE DIFFUSER (12" R NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,10
G	25	500	TITUS 50F	1/2" X 1/2" X 1/2" EGGRATE GRILLE (24'X24" UNLESS NOTED OTHERWISE)	1,2,3,4,5
H	25	500	TITUS 50F	1/2" X 1/2" X 1/2" EGGRATE GRILLE (12'X12" UNLESS NOTED OTHERWISE)	1,2,3,4,5
I	25	500	TITUS 300FS	SIDEWALL SUPPLY REGISTER	1,2,4,5,11
J	25	500	TITUS 25R	SIDEWALL RETURN REGISTER	2,5,12
K	25	500	TITUS S300FS	SPIRAL DUCT MOUNTED SUPPLY GRILLE	1,11,13

- REMARKS NOTES:
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
 - PROVIDE OFF-WHITE FINISH. VERIFY WITH ARCHITECT PRIOR TO ORDERING.
 - EXTEND 24" X 24" PANEL IN LAY-IN CEILING. SURFACE MOUNT IN GYP. BOARD CEILING.
 - PROVIDE OPPOSED BLADE DAMPER WITH EXTERNAL ADJUSTMENT.
 - PROVIDE TRANSITION ADAPTER AS REQUIRED. ROUND TO REC. OR REC. TO REC. OR ROUND TO ROUND.
 - PROVIDE 6" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 8" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 10" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 12" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 14" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - INSTALL WITH FRONT BLADES PERPENDICULAR TO FLOOR.
 - INSTALL WITH FRONT BLADES PARALLEL TO FLOOR.
 - MOUNT DIRECTLY TO DUCT. ARCH. TO SELECT FINISH PRIOR TO ORDERING.

PACKAGED GAS FIRED UNIT SCHEDULE

SYMBOL	SUPPLY FAN							COOLING MIN. (1)			HOT GAS REHEAT				REFRIGERANT CHARGE lbs of R-454B	HEATING MIN. (2)			ELECTRICAL		ACOUSTICS dB	REMARKS
	TOTAL CFM	OUTSIDE AIR		EXT. S.P. INCHES H ₂ O	DRIVE TYPE	FAN TYPE	MOTOR HP	TOTAL MBH	SEN. MBH	EER/ SEER [2]	ENT. DB/WB	LVG. DB	LVG. DEW POINT	MOISTURE REMOVAL GPM		INPUT MBH	OUTPUT MBH	DELTA T	VOLTAGE/ PHASE/ FREQUENCY	MCA/MOP (AMPS)		
		MIN.	MAX.																			
PAC-1	12,000	675	2900	1.0	DIRECT	FC	10.0	379.17	294.72	10.60/	73/64	70	52.48	0.25	33.4	350.00	284.00	21.97	208/3/60	172/200	87	1,2,3,4,5

PACKAGED GAS/ELECTRIC UNIT SCHEDULE NOTES:

- CAPACITY BASED ON EDB 80 DEGREES F., EWB 67 DEGREES F. & AMBIENT 95 DEGREES F.
- RATED IN ACCORDANCE W/ARI STANDARD 210-81.
- BASED ON TRANE MODEL YCH360DEL. REFRIGERANT R-454B.
- PROVIDE SINGLE POINT POWER CONNECTION, MODULATING HOT GAS REHEAT, HINGED ACCESS PANELS, AND FACTORY INSTALLED DISCONNECT SWITCH, MOTORIZED OUTDOOR AIR AND POWERED EXHAUST, POWERED (15A) CONVENIENCE OUTLET AND FACTORY HAIL GUARD. PROVIDE CONDENSATE DRAIN PAN AND 2" PLEATED MERV 8 FILTERS.
- UNIT SHALL HAVE REFRIGERANT DETECTION SYSTEM.

EXHAUST FAN SCHEDULE

SYMBOL	CFM	EXT. S.P. INCHES H ₂ O	MOTOR RPM	SONES	FAN MODEL	POWER	ELECTRICAL	REMARKS
EF-1	70	.25	---	3.0	GC-168	32 W	120/1/60	1,2
EF-2	70	.25	---	3.0	GC-168	32 W	120/1/60	1,2

EXHAUST FAN SCHEDULE NOTES:

- COOK MODEL GC OR APPROVED EQUIVALENT. FAN TO BE MOUNTED IN CEILING. PROVIDE BACKDRAFT DAMPER, SPEED CONTROLLER, WHITE ALUMINUM GRILLE, ISOLATORS, & DISCONNECT. SEE DETAIL.
- INTERLOCK CONTROL WITH LIGHT SWITCH/ OCCUPANCY SENSOR.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK, DOUBLE LINE AND SINGLE LINE. DIMENSIONS ARE NET FREE AREA.
	SUPPLY DUCTWORK. DIMENSIONS ARE NET FREE AREA
	RETURN OR EXHAUST DUCTWORK. DIMENSIONS ARE NET FREE AREA
	TRANSITION. 4:1 RATIO FOR LOW PRESSURE, 7:1 RATIO FOR HIGH PRESSURE.
	ELBOW TURNED UP WITH TURNING VANES
	ELBOW TURNED DOWN WITH TURNING VANES
	ROUND DUCT TURNED DOWN
	ROUND DUCT TURNED UP
	RADIUS TYPE ELBOW WITH TURNING VANES. INSIDE RADIUS = WIDTH.
	SQUARE TYPE ELBOW WITH DOUBLE THICKNESS VANES. VANES REQUIRED IN ALL DUCTWORK ELBOWS UNLESS NOTED OTHERWISE.
	FIRE DAMPER (FD) OR SMOKE DAMPER (SD) ALL FD OR SD SHALL HAVE A 12X12 AP UNLESS NOTED OTHERWISE
	MANUAL VOLUME DAMPER (MVD)
	MOTOR OPERATED DAMPER (MOD) ALL MOD SHALL HAVE 12X12 AP UNLESS NOTED OTHERWISE
	DIFFUSER WITH HARD SUPPLY DUCTWORK AND FLEXIBLE DUCTWORK TO DIFFUSER
	WALL SUPPLY REGISTER
	WALL RETURN OR EXHAUST REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
	RECTANGULAR TO ROUND OR TAKEOFF AND DAMPER W/STANDOFF BRACKET
	PIPE TURNED DOWN
	PIPE TURNED UP
	DUCT SMOKE DETECTOR
	THERMOSTAT
	HUMIDISTAT
	CARBON DIOXIDE SENSOR

LOUVER SCHEDULE

SYMBOL	TYPE	SIZE	CFM	MIN. SQ. FEET FREE AREA	PRESS. DROP (W.G.)	RUSKIN MODEL	REMARKS
L-1	R	12"X12"	140	.3	.03	ELF637SDX	1

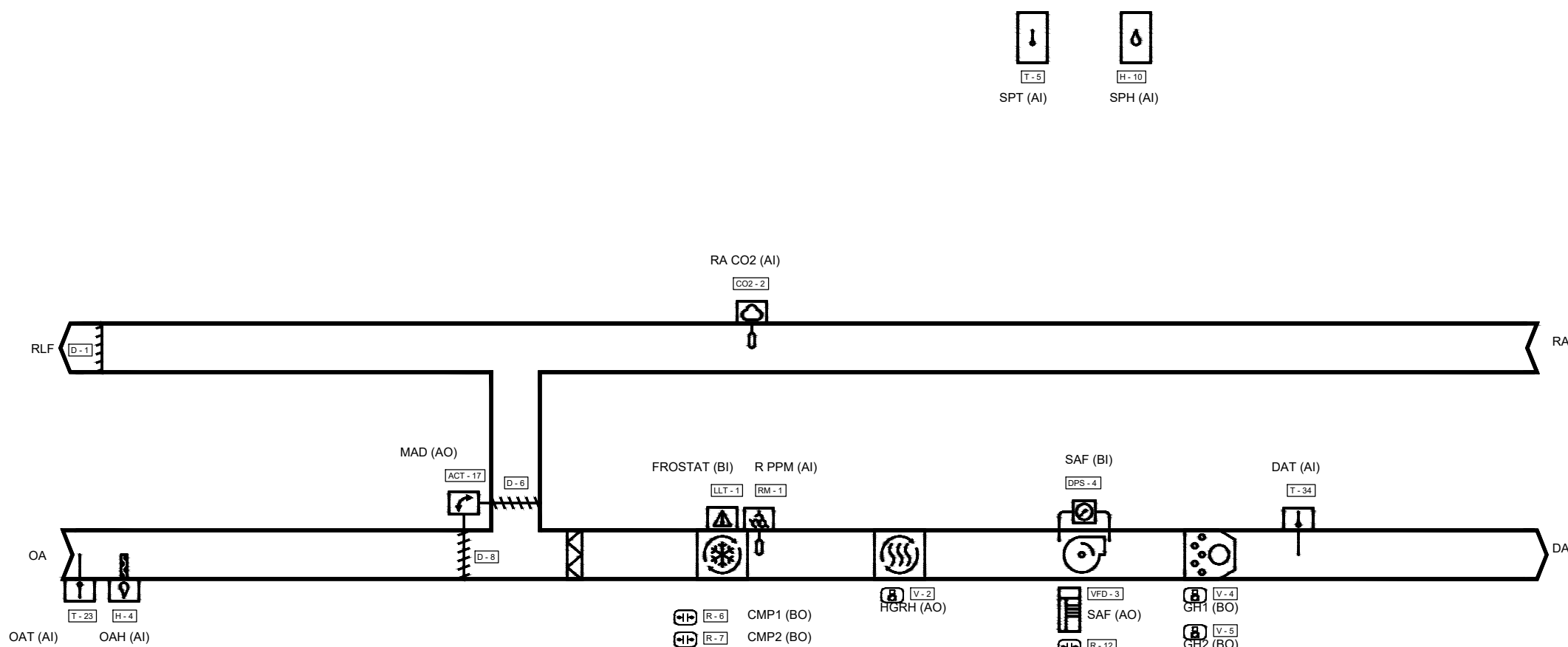
SCHEDULE NOTES:

- I= INTAKE, R = RELIEF
- RUSKIN MODEL ELF637SDX OR APPROVED EQUIVALENT. PROVIDE SCREEN WITH 5/8" MESH OPENING AND BAKED ENAMEL FINISH TO MATCH BUILDING. ARCHITECT/OWNER TO SELECT COLOR.

UNIT TAG	ROOM	ROOM CLASSIFICATION PER TABLE 403.3	AREA FT² (Az)	EST. OCC. LOAD (Pz)	OCC. O.A RATE PER PERSON (Rp)	AREA O.A. RATE PER FT² (Ra)	TOTAL OCC. O.A. RATE (CFM) (RpPz)	TOTAL AREA O.A. RATE (CFM) (RaAz)	TOTAL O.A. (CFM) (RpPz)+(RaAz)=(Vbz)	ZONE O.A. (CFM) (Voz)	O.A. INTAKE FLOW (CFM) (Vol)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	Exhaust Rate S.F.	Exhaust Rate Plumbing Fixture
PAC-1	ENGINEERING LAB 120	Classrooms (age 9 plus)	941	28	10	0.12	280	112.92	392.92	491.15	491.15	0.8	0	0
	ENGINEERING LAB 121	Classrooms (age 9 plus)	940	28	10	0.12	280	112.8	392.8	491	491	0.8	0	0
	CORRIDOR 122	Corridors	1064	0	0	0.06	0	63.84	63.84	77.8	77.8	0.8	0	0
	ENGINEERING LAB 123	Classrooms (age 9 plus)	1195	28	10	0.12	280	142.2	422.2	527.75	527.75	0.8	0	0
	ENGINEERING LAB 124	Classrooms (age 9 plus)	1138	28	10	0.12	280	136.56	416.56	520.7	520.7	0.8	0	0
	MAKER SPACE 125	Classrooms (age 9 plus)	289	10	10	0.12	100	34.68	134.68	168.35	168.35	0.8	0	0
	SPRINKLER / WATER 128	Storage Rooms	88	0	0	0.12	0	10.66	10.66	13.2	13.2	0.8	0	0
	WOMEN 128	Toilet Rooms - Public	49	0	0	0	0	0	0	0	0	0.8	0	70
	MEN 129	Toilet Rooms - Public	49	0	0	0	0	0	0	0	0	0.8	0	70
	STUDENT COMMONS 130	Corridors	1037	0	0	0.06	0	62.22	62.22	77.775	77.775	0.8	0	0
							675.78			2369.725				

TAG	REFRIGERANT	RELEASABLE REFRIGERANT CHARGE	SPACE(S) SERVED	AREA (SQ FT)	HEIGHT (FT)	V _{eff}	LFL	CF	F _{acc}	EDVC	COMPLIES WITH ASHRAE STD 15	REMEDY FOR NONCOMPLIANCE
RTU-1			ENGINEERING LAB 120	941	20	18820						
			ENGINEERING LAB 121	940	20	18800						
			CORRIDOR 122	1064	20	21280						
			ENGINEERING LAB 123	1185	20	23700						
			ENGINEERING LAB 124	1138	20	22760						
			MAKER SPACE 125	289	20	5780						
			SPRINKLER / WATER 127	88	20	1760						
			WOMEN 128	49	8	392						
			MEN 129	49	8	392						
			STUDENT COMMONS 130	1037	20	20740						
RTU-1 TOTAL	R-454b	33.4		111140	18.3	0.5	1	1016.93		Yes		





Sequence of Operation: PAC-1

Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied:

During occupied periods, the supply fan shall run continuously and the mixed air dampers shall open to maintain minimum ventilation requirements. Upon a call for DX cooling, the unit controller shall enable the first fixed speed compressor. If the fixed speed compressor cannot satisfy the load conditions, the unit controller shall start the next fixed speed compressor in sequence to add to the total unit cooling load percentage. This process shall repeat until all of the fixed speed compressors have been started or until the active space temperature setpoint is satisfied. The gas heat shall be enabled and controlled to maintain the active space temperature setpoint. If the discharge air temperature sensor fails, the DX cooling and the gas heat shall control to maintain the active space temperature setpoint and an alarm shall annunciate at the BAS. If the space temperature sensor fails, the mechanical cooling shall be disabled, the mechanical heating shall be disabled, and an alarm shall annunciate at the BAS.

Unoccupied:

During the unoccupied periods, the supply fan shall be disabled, the outside air damper shall close, the mechanical cooling shall be disabled, the mechanical heating shall be disabled, to conserve energy.

When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled, and the mechanical cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan the outside air damper shall close, and the mechanical cooling shall be disabled.

When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan and the mechanical heating shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan the mechanical heating shall be disabled.

Optimal Start:

The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Optimal Stop:

The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint. Outside air damper shall remain enabled to provide minimum ventilation.

Morning Warm-Up Mode:

During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and fan(s). The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:

During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Occupied Bypass:

The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Heat/Cool Mode:

When the space temperature rises above the occupied cooling setpoint the mode shall transition to cooling. When the space temperature falls below the occupied heating setpoint the mode shall transition to heating. When the space temperature is above the occupied cooling setpoint or below the occupied heating setpoint the mode shall remain in its last state. If the space temperature sensor fails the mode shall remain in its last state and an alarm shall annunciate at the BAS. If the local and communicated setpoints fail the controller shall disable the supply fan and an alarm shall annunciate at the BAS.

Dehumidification:

The unit shall be in dehumidification mode if the space humidity is above the dehumidification setpoint. In the dehumidification mode, the supply air fan shall be enabled, the outside air damper shall be commanded to minimum position, and the unit controller shall energize mechanical cooling and the hot gas reheat coil shall modulate.

MULTI-CIRCUIT UNITS: During dehumidification mode the outside air temperature shall be monitored. If this temperature rises above the reheat capacity limit setpoint or falls below the reheat capacity limit setpoint, the unit shall stage down or stage up the compressors respectively to meet full or part load capacity requirements based on ambient temperature. Factory installed hot gas reheat shall allow application of dehumidification. Dehumidification shall be allowed only when the outside air temperature is above 40.0 deg. F and below 100.0 deg. F. The economizer outside air damper shall drive to minimum position during dehumidification.

MULTI-CIRCUIT UNITS: On a call for dehumidification, the hot gas reheat valve in circuit 1 shall energize and the compressor(s) shall enable. When the humidity control setpoint is satisfies, the valve shall be de-energized and the compressor(s) in circuit 1 shall be disabled. If there is a call for 1st stage cooling while in the dehumidification mode, no action shall take place. If there is a call for 2nd stage cooling, the hot gas reheat valve shall be de-energized, and the unit shall revert to the cooling mode. If 2nd stage cooling is satisfied and there is still a call for dehumidification, the hot gas reheat valve shall once again be energized.

Demand Control Ventilation (DCV):

If the return air CO2 level is greater than or equal to the Design Minimum CO2 Setpoint, the outdoor air damper shall open to the Design Minimum Outdoor Air Damper Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

If the return air CO2 level is less than or equal to the DCV Minimum CO2 Setpoint, the outdoor air damper shall close to the DCV Minimum Outdoor Air Damper Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

If the return air CO2 level is greater than the DCV Minimum CO2 Setpoint and less than the Design Minimum CO2 Setpoint, the outdoor air damper position shall be modulated proportionally to the return CO2 level relative to a target position between the DCV Minimum CO2 Setpoint and the Design Minimum CO2 Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

Supply Fan:

The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. The unit controller shall vary the supply fan speed to optimize minimum fan speed in all cooling and heating modes. A differential pressure switch shall monitor the differential pressure across the fan. If the switch does not open within 40 seconds after a request for fan operation a fan failure alarm shall annunciate at the BAS, the unit shall stop, requiring a manual reset.

Relief Air and Building Pressure Control:

The barometric relief dampers shall open with increased building pressure. As the building pressure increases, the pressure in the unit return section also increases, opening the dampers and relieving air.

Refrigerant Mitigation Mode:

The unit controller shall monitor the leak detection system, when a leak is detected, an alarm shall promptly alert the BAS via BACnet Change-of-Value (COV) and mitigation shall be activated.

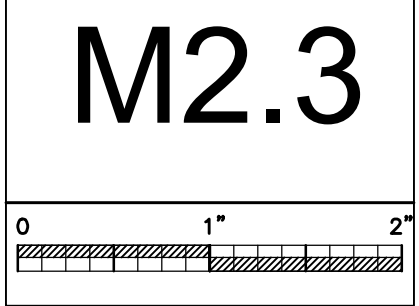
In occupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASHRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

In unoccupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASHRAE standard). for the duration of the mitigation process plus an additional 5 minutes.



PROJ. MGR.: HD
DRAWN: KN
DATE: 08.25.26
REVISIONS

JOB NO. MKA-26-042-00
SHEET NO:



ELECTRICAL LEGEND

CEILING OUTLETS

- Ⓜ RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- Ⓜ RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- Ⓜ RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- Ⓜ RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- Ⓜ RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- Ⓜ RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- FS 2 SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS 2 SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY BATTERY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE "EMERGENCY BATTERY POWER"
- Ⓜ JUNCTION BOX
- ⊗ EXIT LIGHT
- EF EXHAUST FAN

LIGHTING CONTROLS

- Ⓞ CEILING MOUNTED OCCUPANCY SENSOR
- PP POWER PACK FOR OCCUPANCY SENSOR
- L1 ROOM CONTROLLER – 1 ZONE DIMMING
- L2 ROOM CONTROLLER – 2 ZONE DIMMING
- RC ROOM CONTROLLER – ON/OFF NO DIMMING
- D1 WALL DIMMER – ON/OFF & 0-10V 1-ZONE DIMMING
- D2 WALL DIMMER – ON/OFF & 0-10V 2-ZONE DIMMING
- SL LOW VOLTAGE SWITCH, 2-BUTTON
- SLX LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
- Ⓞ1 OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2
- *COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE.

- ⊗ WALL MOUNTED EXIT LIGHT
- ⊗ WALL MOUNTED COMBO EXIT LIGHT/EMERGENCY
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- Ⓜ BATTERY OPERATED EMERGENCY WALL PACK
- Ⓜ DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- Ⓜ G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- Ⓜ W DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE; OUTLET BOX HOODS SHALL BE IDENTIFIED AS "EXTRA-DUTY"
- TV Ⓜ DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 90" A.F.F. ADJACENT TO TELEVISION OUTLET; COORDINATE LOCATION WITH TELEVISION OUTLET PRIOR TO ROUGH-IN
- Ⓜ DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- Ⓜ G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- Ⓜ U DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R WITH DUAL USB 2.0/3.0 COMPATIBLE RECEPTACLES. MOUNT 6" ABOVE COUNTER
- Ⓜ G QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- Ⓜ QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- Ⓜ QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER UNLESS NOTED OTHERWISE
- Ⓜ DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
- SINGLE RECEPTACLE – 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA LG-30R. MOUNT AS DIRECTED FOR RACK UPS SYSTEM
- 250V RECEPTACLE; 4 WIRE; MT 14" AFF TO C/L; NEMA 10-30R; HUBBELL SERIES 9350

- Ⓜ JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- Ⓜ PHOTOCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GROUND
- RUN CONCEALED IN CEILING OR WALLS
- LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND – 3/4" C; 3 #12, 1 #12 GROUND – 3/4" C; 4 #12, 1 #12 GROUND – 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND – 3/4" C; 3 #10, 1 #10 GROUND – 3/4" C; 4 #10, 1 #10 GROUND – 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND – 1" C; 3 #8, 1 #10 GROUND – 1" C; 4 #8, 1 #10 GROUND – 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 – NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- EMPTY CONDUIT WITH PULLWIRE, RUN CONCEALED IN CEILING OR WALLS

TELEPHONE & TELEVISION SYSTEMS

- ▷ WALL OUTLET FOR TV – 4-1/2" SQ X 3-1/2" DEEP BOX; MOUNT AT HEIGHT DIRECTED BY OWNER; 1" CONDUIT BACK TO IDF.
- TV WALL OUTLET FOR TV – 4-1/2" SQ X 3-1/2" DEEP BOX; MOUNT AT HEIGHT DIRECTED BY OWNER; 1" CONDUIT BACK TO IDF.

PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CON CONTROL PANEL
- NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- Ⓜ FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
- Ⓜ MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; 'S' INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- T TRANSFORMER
- GROUNDING ELECTRODE CONNECTION

MISCELLANEOUS EQUIPMENT

- WH WATER HEATER

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S3 A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- SM MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- 30/1 SM MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- SM2 MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS DOUBLE POLE SINGLE THROW, A.C. TYPE, 30 AMP, 208 VOLT
- ST PRESET INTERVAL TIMER SWITCH, HUBBELL TD-300 SERIES OR EQUIALS
- Ⓜ PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

FIRE ALARM SYSTEM

- FACP FIRE ALARM SYSTEM CONTROL PANEL
- ANN FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
- FPC FIRE ALARM SYSTEM FIRE PUMP CONTROLLER
- Ⓜ FIRE ALARM SYSTEM MANUAL PULL STATION
- Ⓜ FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE
- Ⓜ WP WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN/STROBE
- Ⓜ FIRE ALARM SYSTEM STROBE
- Ⓜ FIRE ALARM SYSTEM SUPERVISORY SWITCH
- Ⓜ FIRE ALARM SYSTEM TAMPER SWITCH
- Ⓜ FIRE ALARM SYSTEM FLOW SWITCH
- Ⓜ FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- Ⓜ FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- Ⓜ E FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED, ELEVATOR RECALL
- Ⓜ FIRE ALARM SYSTEM AUTOMATIC CARBON MONOXIDE DETECTOR W/ AUDIBLE SOUNDER; CEILING MOUNTED. PROVIDE WITHIN 5'-0" OF FURNACE DISCHARGE REGISTER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- Ⓜ FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
- RT FIRE ALARM SYSTEM REMOTE TEST STATION
- ZC FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE
- ZM FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS
- F — FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED
- CLG INDICATES CEILING MOUNTED DEVICE

DEMOLITION DEVICES

- Ⓜ TYPICAL DOWNLIGHT TO BE REMOVED
- Ⓜ TYPICAL RECESSED LIGHT TO BE REMOVED
- Ⓜ TYPICAL SURFACE/PENDANT LIGHT TO BE REMOVED
- Ⓜ TYPICAL EMERGENCY EGRESS FIXTURE TO BE REMOVED
- Ⓜ TYPICAL WALL MOUNTED DEVICE TO BE REMOVED
- Ⓜ TYPICAL COMMUNICATION OUTLET TO BE REMOVED
- Ⓜ TYPICAL ELECTRICAL EQUIPMENT TO BE REMOVED
- Ⓜ TYPICAL SWITCH TO BE REMOVED
- EX:RL EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
- EX:RD EXISTING EQUIPMENT THAT HAS BEEN RELOCATED
- EX:RR EXISTING EQUIPMENT TO BE REMOVED AND REPLACED
- EX:RW EXISTING EQUIPMENT TO BE REMOVED

EXISTING DEVICES

- Ⓜ TYPICAL LIGHTS TO REMAIN
-
- Ⓜ TYPICAL WALL MOUNTED DEVICE TO BE REMAIN
- Ⓜ TYPICAL ELECTRICAL EQUIPMENT TO BE REMAIN, SEE POWER RISER.

MISCELLANEOUS

- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CL CENTER LINE
- CWP COLD WATER PIPE
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITER'S LABORATORY
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLTAGE
- W WIRE
- WP WEATHERPROOF
- # NUMBER
- 3R NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE NEW FACILITY IS EXISTING.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY BALLAST CONNECTED AHEAD OF LOCAL SWITCHING, UNLESS EMERGENCY LIGHTING IS ON EMERGENCY CIRCUIT FROM A GENERATOR.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC. WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
26. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID AND BIDDING ACCORDINGLY.
2. ELECTRICAL DEVICES SHOWN IN BOLD INDICATES NEW WORK. ELECTRICAL DEVICES THAT ARE SHOWN IN LIGHT PEN AND DASHED INDICATE EXISTING DEVICES TO REMAIN.
3. ALL DEMOLITION WORK SHALL BE PERFORMED WITH CARE NOT TO DISTURB THE OTHER EXISTING UTILITIES. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, THE EXISTING UTILITIES ARE TO BE FIXED TO IT'S ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR.
4. LEGEND SYMBOLS ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION WORK. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.
5. EXISTING BRANCH WIRING AND DEVICES SHOWN IS DIAGRAMMATICAL ONLY BASED ON EXISTING DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR EXACT LOCATIONS.
6. TRENCH, CUT AND REMOVE EXISTING SURFACES AS REQUIRED FOR THE INSTALLATION OF ALL NEW ELECTRICAL PROVISIONS.
7. CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE.
8. OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL SURFACE.
9. EXISTING JUNCTION BOXES MAY BE USED AS NOTED IF OF THE PROPER SIZE. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
10. EXISTING PANELBOARDS SHALL BE UTILIZED TO FACILITATE THE WORK AS SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER (WHENEVER POSSIBLE), FRAME SIZE, AIC RATING AND TYPE AS EXISTING. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL MATERIALS FOR PANELBOARDS TO PROPERLY MEET THE INTENT OF THE DRAWINGS.
11. WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT ETC., ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.
12. CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE DEMOLISHED.

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RENOVATION
of
WRIGHT HALL
WRIGHT HALL 600 TROY UNIVERSITY, 600 UNIVERSITY AVENUE, TROY, AL 36081
TROY UNIVERSITY
600 UNIVERSITY AVENUE, TROY, AL 36081

SHEET TITLE:
ELECTRICAL LEGEND & NOTES



PROJ. MGR.: J. TILLEY
DRAWN: J. TILLEY
DATE: 08.21.26
REVISIONS

JOB NO.
MKA-26-042-00
SHEET NO:

E0.1

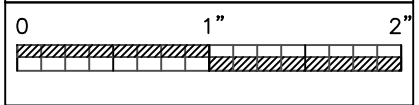


Diagram illustrating the construction details for a concrete repair patch, showing dimensions and materials:

- SAW-CUT 25mm (1") DEEP AND DRILL AT 152mm (6") O.C.** (SEE NOTE 1 & 3)
- EXISTING CONCRETE PAVEMENT**
- NEW CONCRETE PAVEMENT** (SEE NOTE 4, 5 AND 8)
 - #4 (AWG) BARS AT 305mm (1") O.C.
 - #5 (AWG) BARS AT 152mm (6") O.C.
- BEARING ON UNDISTURBED AND TAMPED MATERIAL**
- COMPACT BACKFILL**
- PLASTIC MARKING TAPE** (SEE NOTE 9)
- TRENCH BOTTOM SHALL BE UNDISTURBED, TAMPED OR RELATIVELY SMOOTH EARTH**
- TRENCH - SEE NOTE 1**
- SEE NOTE 2**
- LIMIT OF PAVEMENT REMOVAL/REPLACEMENT-SEE NOTE 2**
- SAW-CUT 25mm (1") DEEP AND DRILL AT 152mm (6") O.C.** (SEE NOTE 1 & 3)
- EXISTING CONCRETE PAVEMENT**

EQ.2 NO SCALE

SAW-CUT
SEE NOTE 1 AND 3

EXISTING BITUMINOUS
SURFACE COURSE

EXISTING BASE COURSE

LIMIT OF PAVEMENT REMOVAL/REPLACEMENT - SEE NOTE 2

#4 (AWG) BARS AT 305mm (1') O.C.

#5 (AWG) BARS AT 152mm (6") O.C.

NEW BITUMINOUS SURFACE
SEE NOTE 5

SAW-CUT
SEE NOTE 1 AND 3

EXISTING BITUMINOUS
SURFACE COURSE

EXISTING BASE COURSE

CONCRETE SLAB
SEE NOTE 4 & 6

BEARING ON UNDISTURBED AND TAMPED MATERIAL

COMPACT BACKFILL

PLASTIC MARKING TAPE (SEE NOTE 7)

TRENCH BOTTOM SHALL BE UNDISTURBED,
TAMPED OR RELATIVELY SMOOTH EARTH

TRENCH - SEE NOTE 1

SEE NOTE 2

Labels A, B, C, D, E are used to indicate specific dimensions and locations within the cross-section.

E0.2 NO SCALE

TRENCH - SEE NOTE 1

E0.2 NO SCALE

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SHEET NOTES:

- ① CONTRACTOR SHALL VERIFY ROUTING AND CONNECTION WITH TROY UTILITIES TO THE EXISTING TRANSFORMER. PROVIDE NEW CONCRETE TRANSFORMER PADS IF REQUIRED TO GET CONDUIT INTO SECONDARY COMPARTMENT. SEE SHEET E0.2 FOR REPAIRING SURFACES.

GENERAL NOTES:

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
4. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS HAND HOLES AND BACKBOARDS.
6. SEE SHEET E0.2 FOR TYPICAL TRENCH/PATCH/REPAIR DUCT DETAILS FOR ALL SURFACES. WORK SHALL COMPLY WITH DETAILS.

SITE LEGEND

- UP----- UNDERGROUND PRIMARY
-----US----- UNDERGROUND SECONDARY
-----UC----- UNDERGROUND COMMUNICATIONS
[T] PAD MOUNTED TRANSFORMER

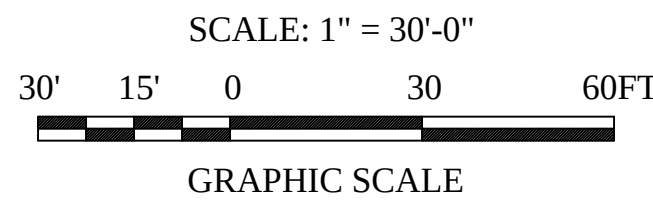
UNDERGROUND UTILITY NOTES:

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
 - a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
 - b. DUCTBANK INSTALLATIONS
 - c. LOW VOLTAGE CONDUCTOR INSTALLATION
 - d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NESC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
 - a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
 - b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
 - c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
 - d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.
 - e. CALL 811 TO LOCATE UTILITIES BEFORE YOU DIG. COORDINATE WITH OWNER FOR THEIR KNOWLEDGE OF THE SITE ALSO.



1
E1.1

SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"



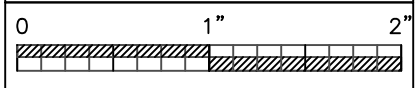
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PROJ. MGR.:	J. TILLERY
DRAWN:	J. TILLERY
DATE:	08.21.26
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MKA-26-042-00
SHEET NO:

E1.0





PROJ. MGR.:	J. TILLERY
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JOB NO.
MKA-26-042-00
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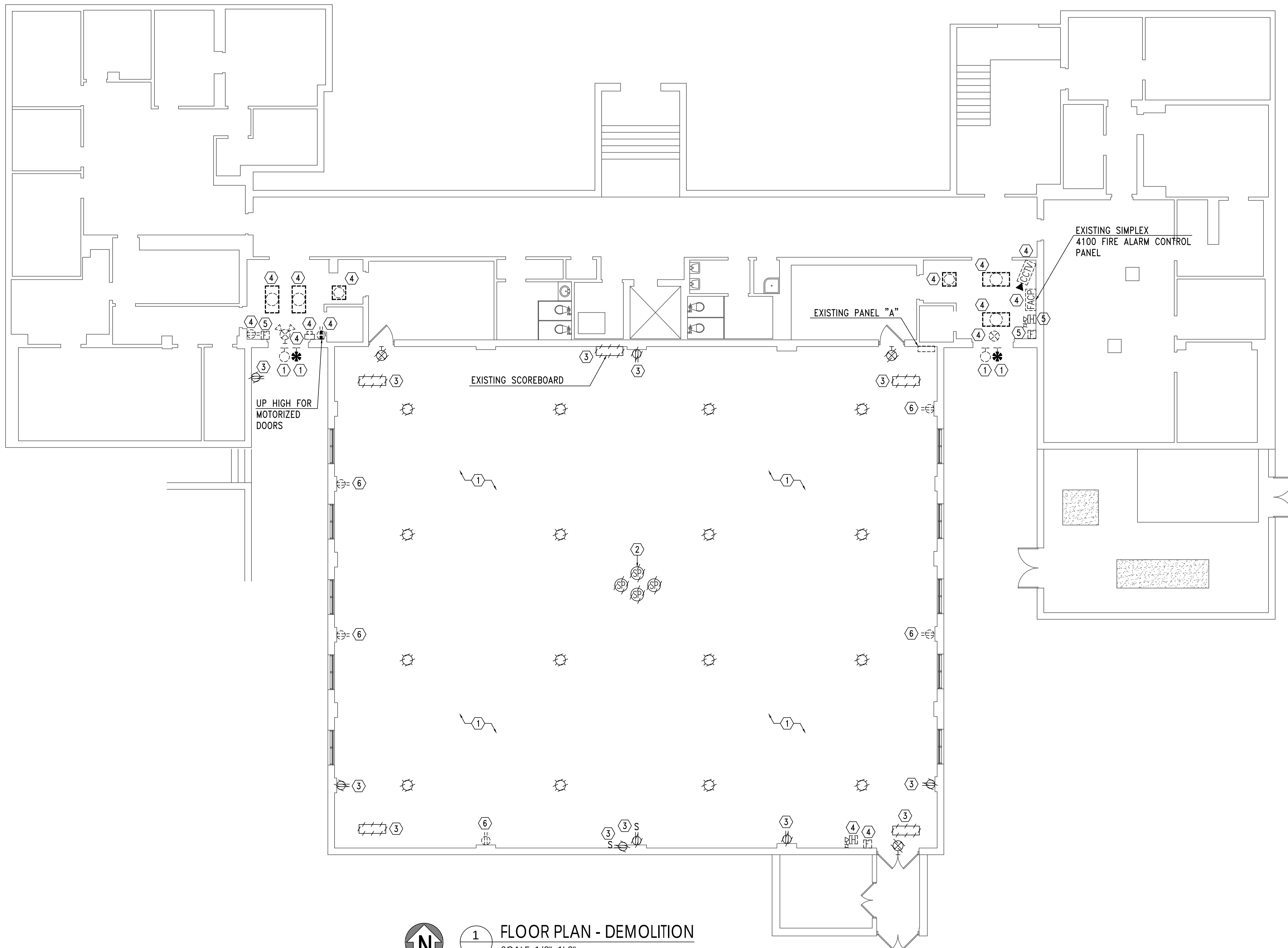
GENERAL NOTES:

1. CONTRACTOR RESPONSIBLE FOR REMOVING AND REINSTALLING ALL CEILING MOUNTED DEVICES IN ALL AREAS THAT NEW CEILINGS WILL BE INSTALLED. LOWER DEVICES TO NEW CEILINGS AS REQUIRED. INTERCEPT AND EXTEND CIRCUITRY AS NEEDED. VISIT SITE PRIOR TO BIDS TO QUANTIFY THE AMOUNT OF WORK AND BID ACCORDINGLY.
2. REMOVE ALL SWITCHING AS REQUIRED TO ACCOMPLISH NEW SWITCHING REQUIREMENTS. SEE LIGHTING PLANS FOR NEW SWITCH REQUIREMENTS FOR EACH SPACE.
3. CONTRACTOR RESPONSIBLE FOR REMOVING AND PROPERLY DISPOSING OF ALL EXISTING LIGHTS AND LIGHT BULBS.
4. CONTRACTOR SHALL LOWER ALL MOUNTED DEVICES AS REQUIRED TO ACCOMMODATE NEW LAY IN CEILING. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT/CABLING AS REQUIRED.
5. CONTRACTOR SHALL EDIT EXISTING PANELBOARD DIRECTORIES AS REQUIRED TO REFLECT DEMO WORK.

SHEET NOTES:

- ① CONTRACTOR SHALL REMOVE & RELOCATE ALL EXISTING LIGHTING IN THIS AREA. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT FOR EXISTING DEVICES TO REMAIN.
- ② EXISTING SPEAKER CLUSTER AND CIRCUITRY SHALL BE REMOVED BACK TO POINT OF ORIGIN.
- ③ EXISTING DEVICE TO BE REMOVED. INTERCEPT & EXTEND EXISTING CIRCUIT FOR ANY EXISTING DEVICE TO REMAIN. IF NO DEVICES TO REMAIN REMOVE ALL CIRCUITRY.
- ④ EXISTING DEVICE TO REMAIN.
- ⑤ EXISTING DEVICE TO BE REMOVED AND RELOCATED. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT/CABLING AS REQUIRED.
- ⑥ EXISTING DEVICE TO BE REPLACED ONE FOR ONE WITH NEW PLATE. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT AS REQUIRED.

EXISTING RACEWAYS:
ELECTRICAL CONTRACTOR SHALL SUPPORT ALL EXISTING RACEWAYS TO REMAIN PER THE NATIONAL ELECTRICAL CODE. PROVIDE ALL EXISTING OPEN JUNCTION BOXES WITH COVERS AND PROVIDE PUSH PENNIES TO ANY EXISTING OPEN KNOCKOUTS. THE EXISTING OVERHEAD CONDUIT SYSTEM IS CURRENTLY NOT SUPPORTED CORRECTLY AND THERE IS OPEN JUNCTION BOXES AND KNOCKOUTS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE TO CORRECT ALL THESE ITEMS IN THEIR BASE BID.



1
E1.1
FLOOR PLAN - DEMOLITION
SCALE: 1/8"=1'-0"

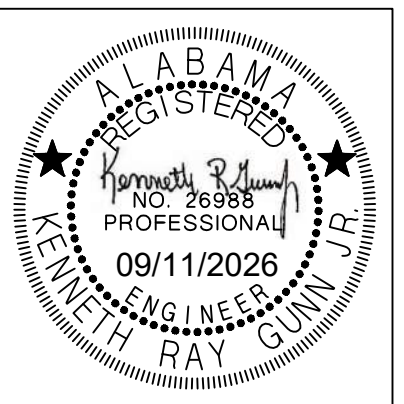
1/8" = 1'-0"
8' 0 8 16 FT
GRAPHIC SCALE

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RENOVATION
at
WRIGHT HALL
WRIGHT HALL @ TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36081
for
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36081

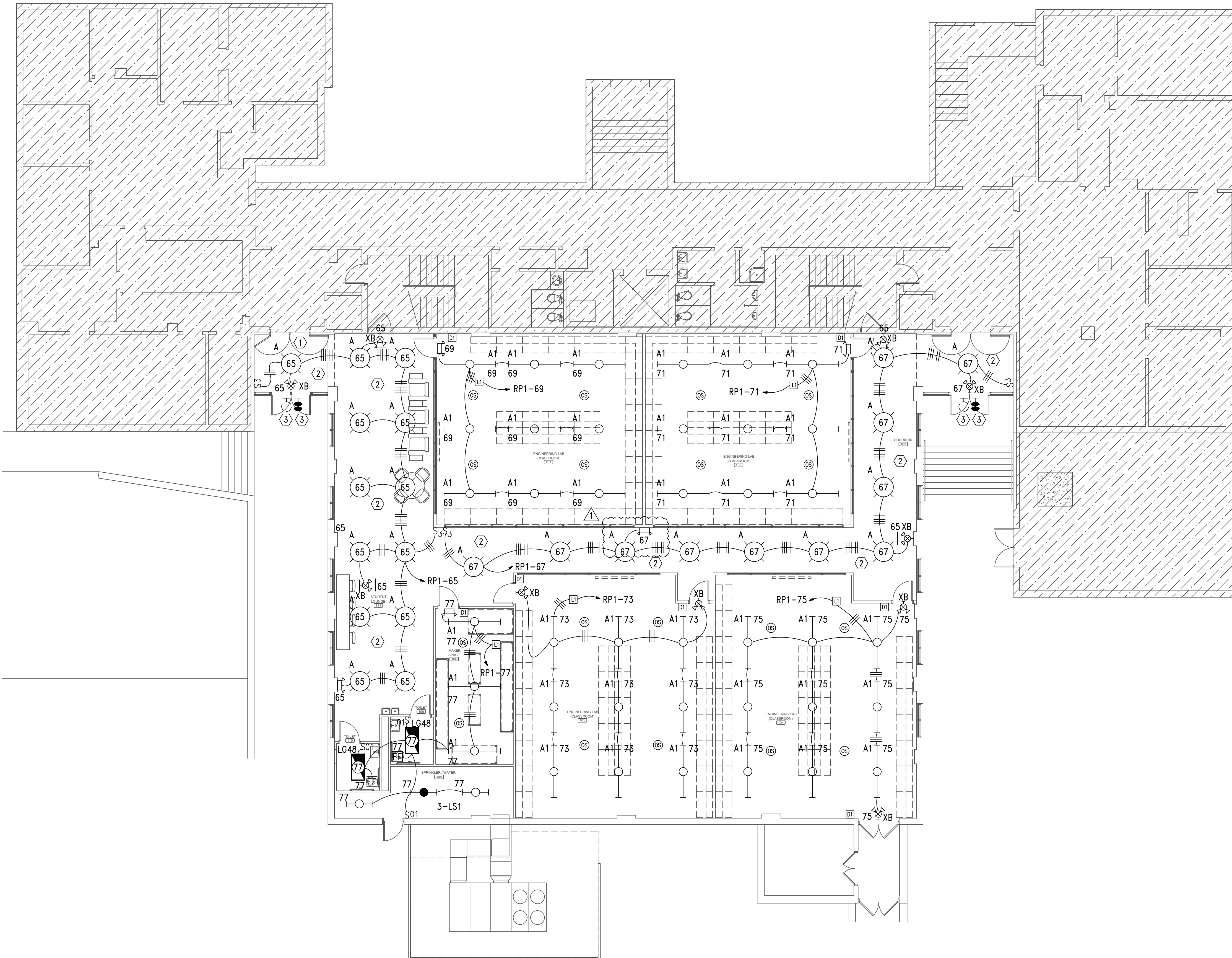
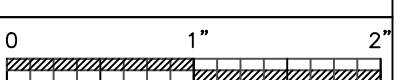
SHEET TITLE:
FLOOR PLAN - LIGHTING



PROJ. MGR.: J. TILLERY
DRAWN: J. TILLERY
 09-11-2026
DATE: 08.21.26
REVISIONS

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SHEET NO:

E2.1



1. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PAK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
3. SEE LIGHTING CONTROL DETAILS ON SHEET E2.3 FOR ADDITIONAL REQUIREMENTS.

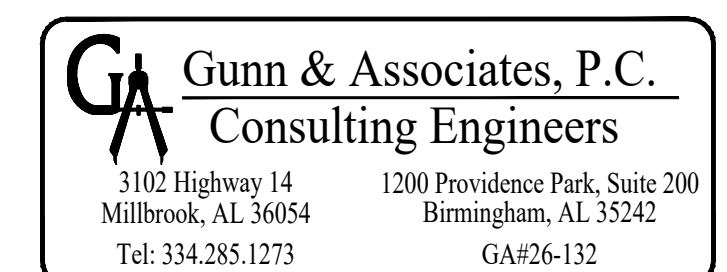
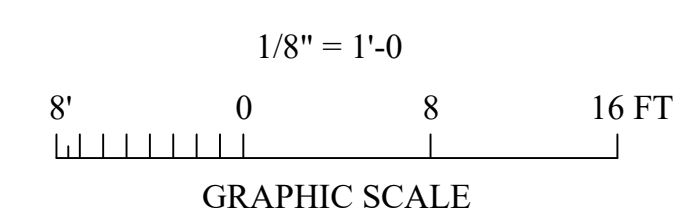
2 DUE TO SECURITY CONCERNS THE OWNER DOES NOT WANT CORRIDOR LIGHTS TO TURN OFF DURING CLASS BY OCCUPANCY SENSORS.

3 CONTRACTOR SHALL REMOVE & RELOCATE ALL EXISTING LIGHTING IN THIS AREA. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT FOR EXISTING DEVICES TO REMAIN. THESE FIXTURES ARE TO BE RELOCATED FROM THE EXISTING LOCATION SHOWN ON DEMOLITION PLAN TO THIS NEW LOCATION.

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- Friday, September 11, 2026 9:25:42 AM



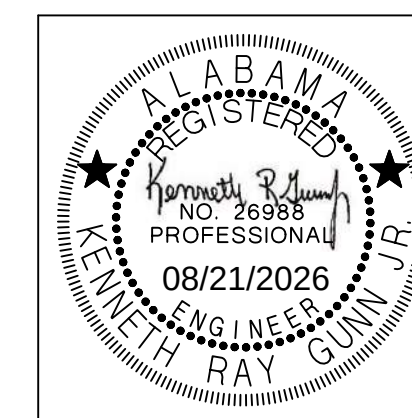
1 FLOOR PLAN - LIGHTING OPTION #2
E2.1 SCALE: 1/8"=1'-0"





RENOVATION
at
WRIGHT HALL
WRIGHT HALL c/o TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36061
for
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36061

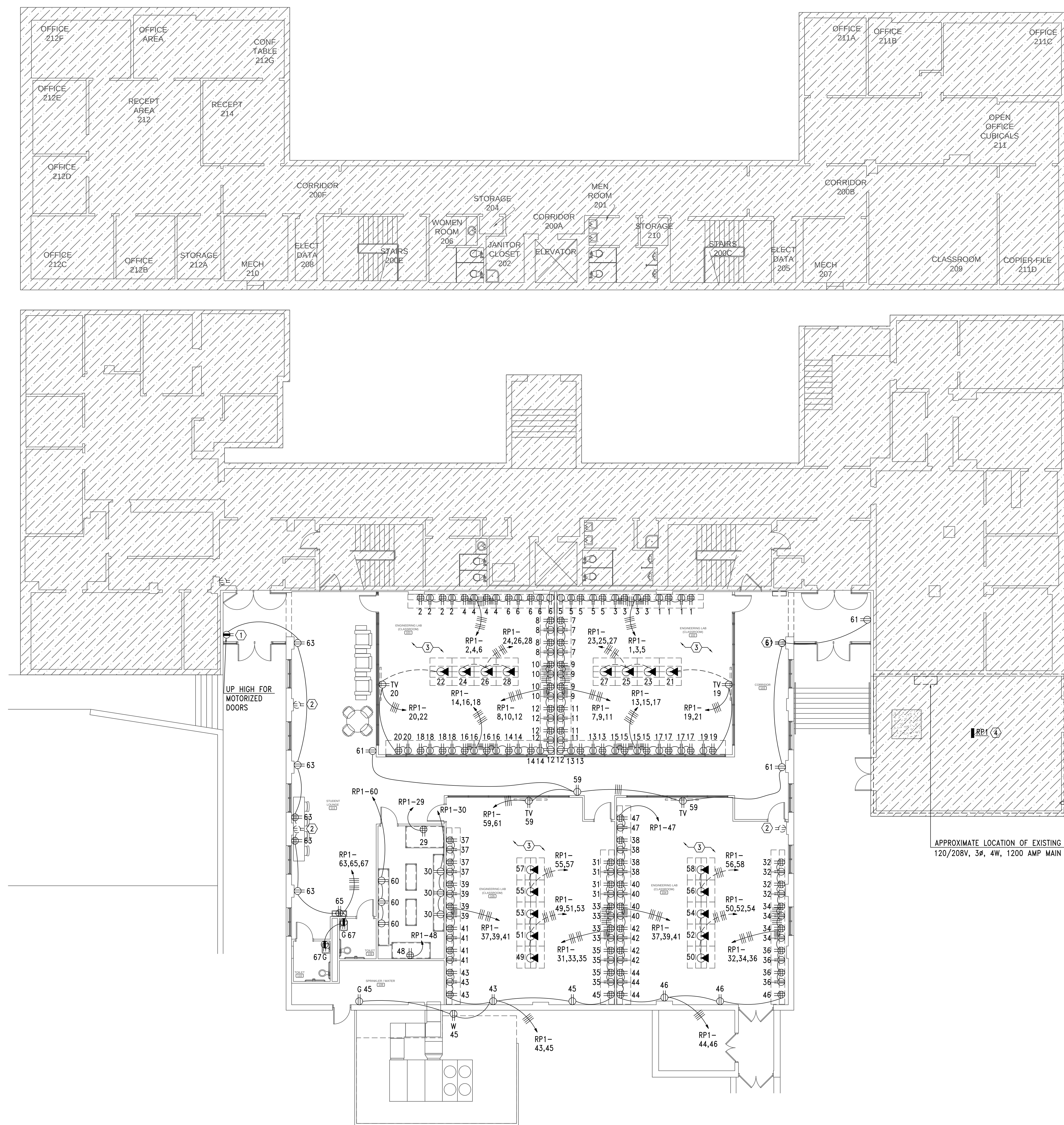
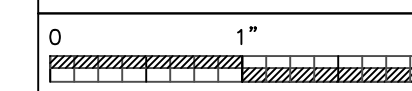
SHEET TITLE:
FLOOR PLAN - POWER



PROJ. MGR.: J. TILLERY
DRAWN: J. TILLERY
DATE: 08.21.26
REVISIONS

JOB NO.	MKA-26-042-00
SHEET NO:	

E3.1



GENERAL NOTES:

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER REQUESTS EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2.1 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

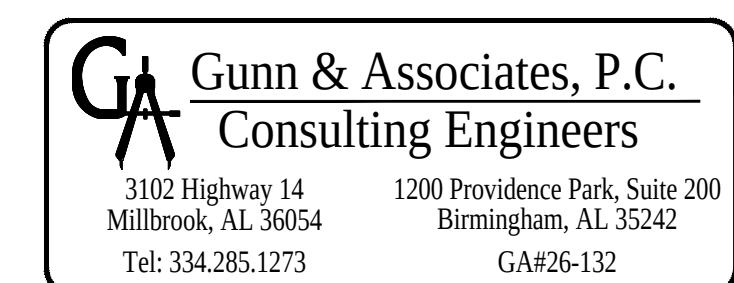
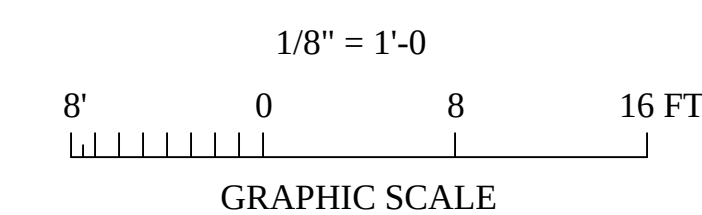
SHEET NOTES:

- ① PROVIDE POWER FOR NEW DOOR. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- ② EXISTING DEVICE TO BE REPLACED ONE FOR ONE WITH NEW PLATE. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT AS REQUIRED.
- ③ CONTRACTOR SHALL CUT/PATCH/REPAIR FLOOR AS NEEDED TO INSTALL FLOOR BOXES AND CONDUIT TO FLOOR BOXES.
- ④ MOUNT PANEL IN UTILITY SPACE BELOW.

APPROXIMATE LOCATION OF EXISTING SERVICE PANEL "MP"
120/208V, 3Ø, 4W, 1200 AMP MAIN CIRCUIT BREAKER



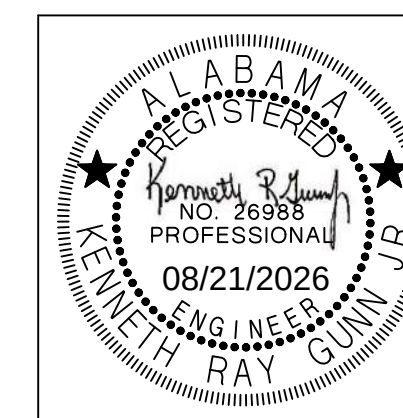
1 FLOOR PLAN - POWER
E3.1 SCALE: 1/8"=1'-0"





RENOVATION
at
WRIGHT HALL
WRIGHT HALL c/o TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36081
for
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36081

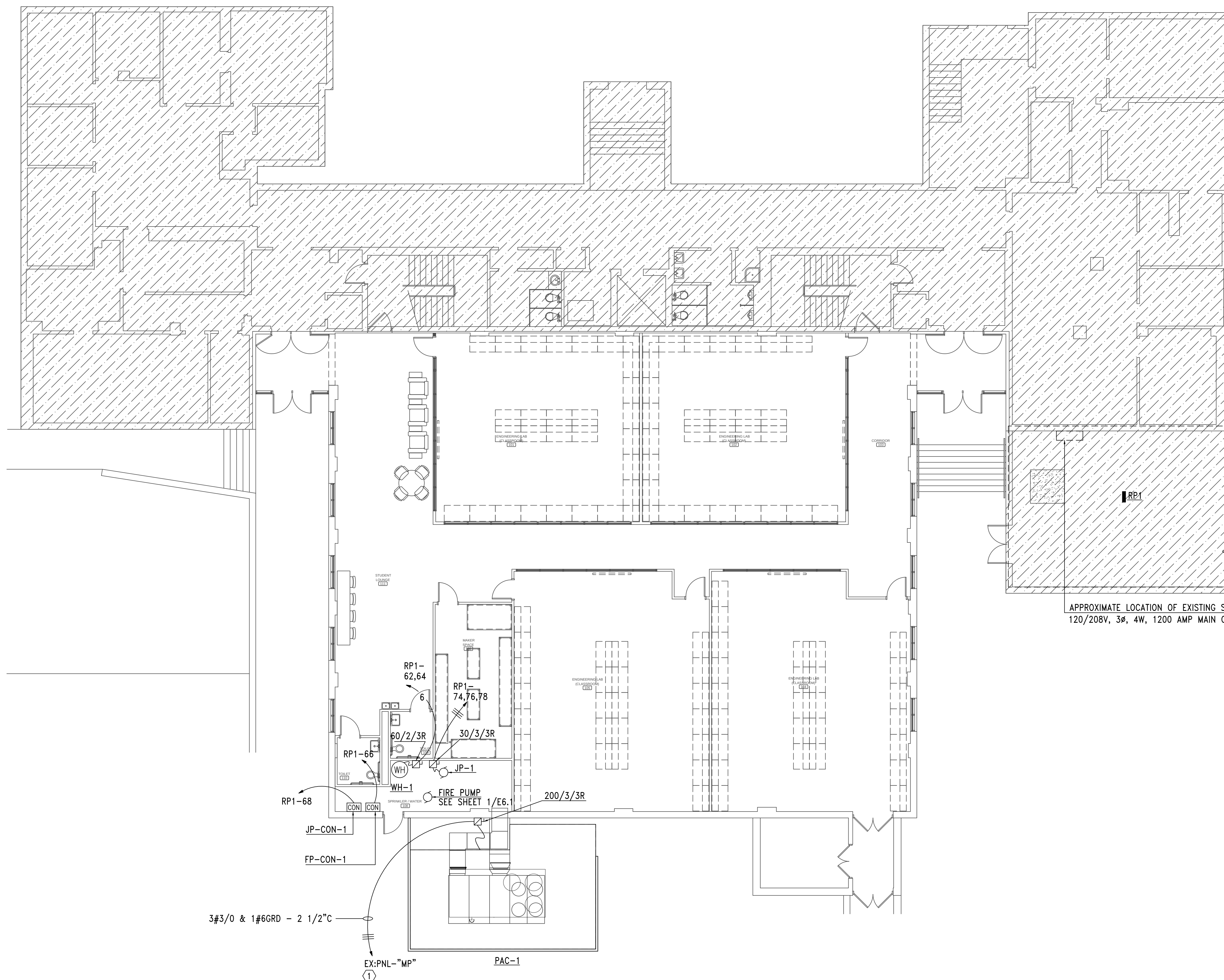
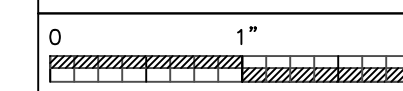
SHEET TITLE:
FLOOR PLAN - POWER



PROJ. MGR.:	J. TILLERY
DRAWN:	J. TILLERY
DATE:	08.21.26
REVISIONS	

JOB NO.	MKA-26-042-00
SHEET NO:	

E3.2



1. COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 6 FEET.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. SEE DETAIL (3) THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.

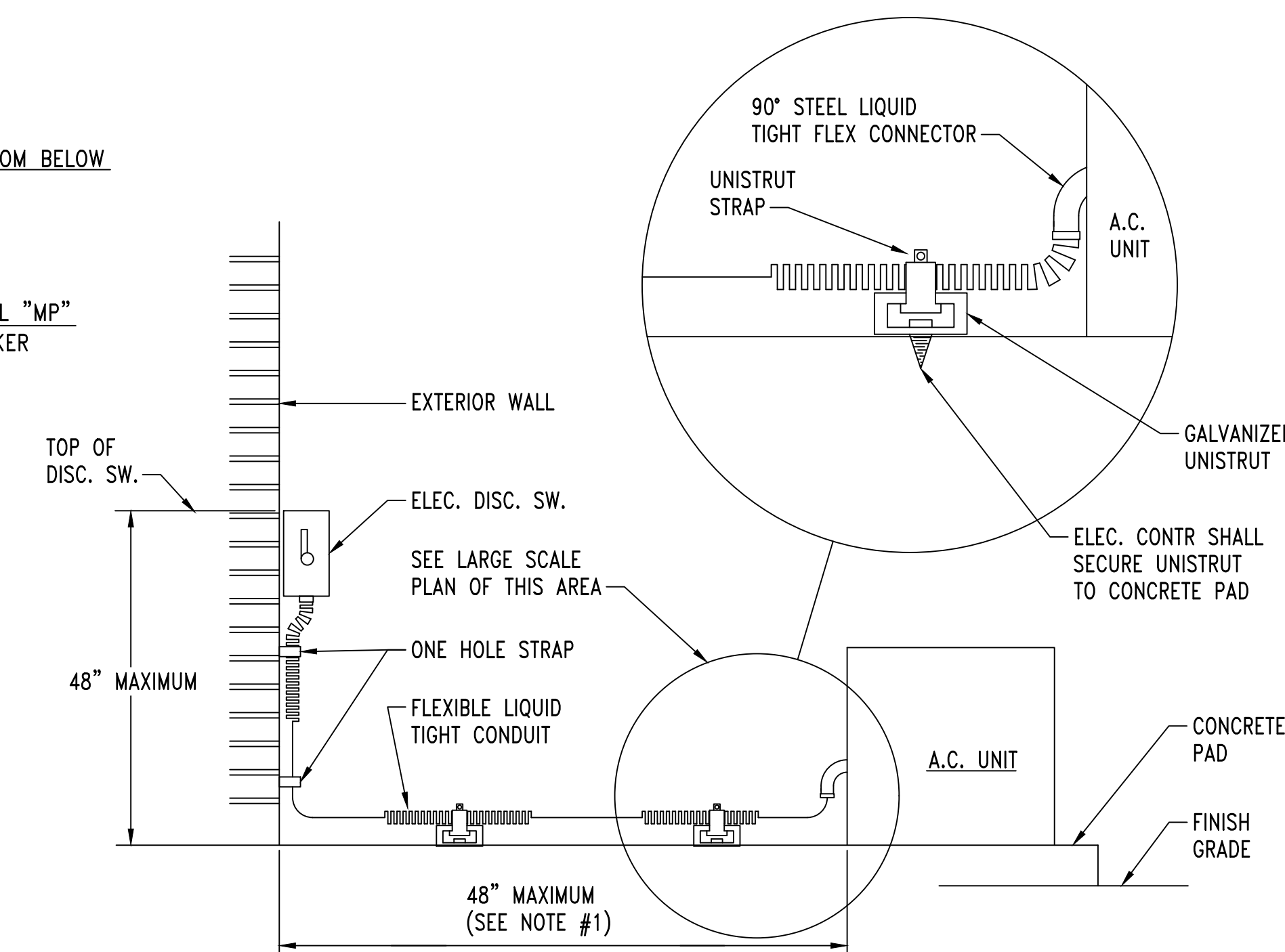
① CONTRACTOR SHALL PROVIDE (1) ONE NEW 200A/3P (65K AIC) CIRCUIT BREAKER IN EXISTING PANEL "MP".



2
E3.2

NOTE:

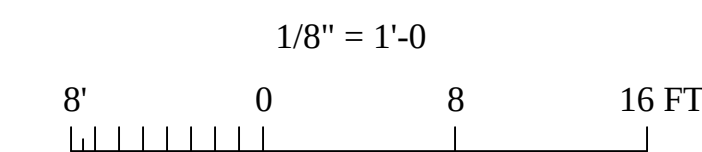
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



E3.2 NO SCALE

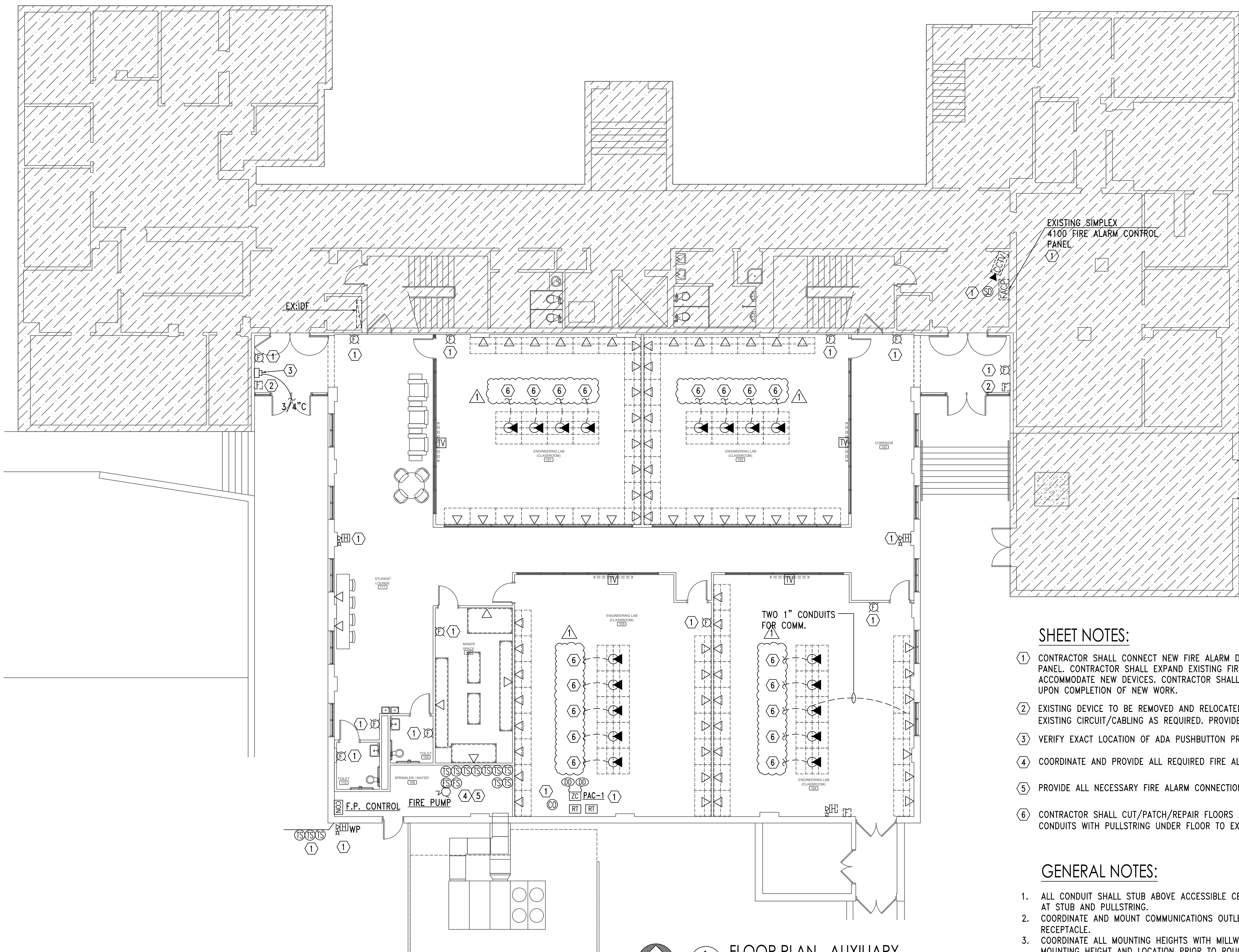
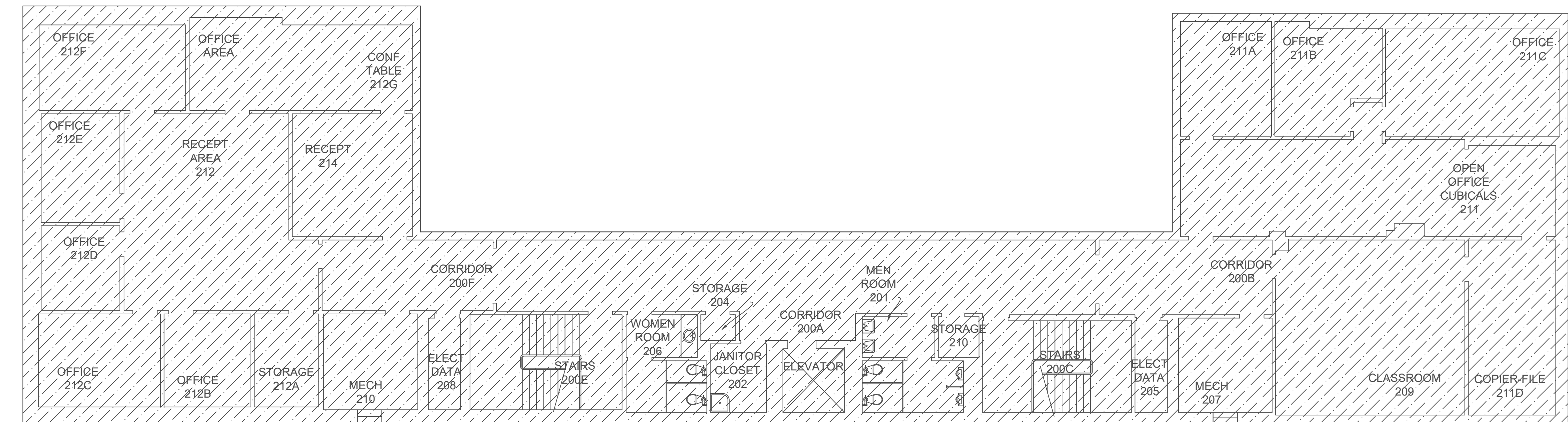


SCALE: 1/8"=1'-0"



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1200 Providence Park, Suite 20
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GA#26-132

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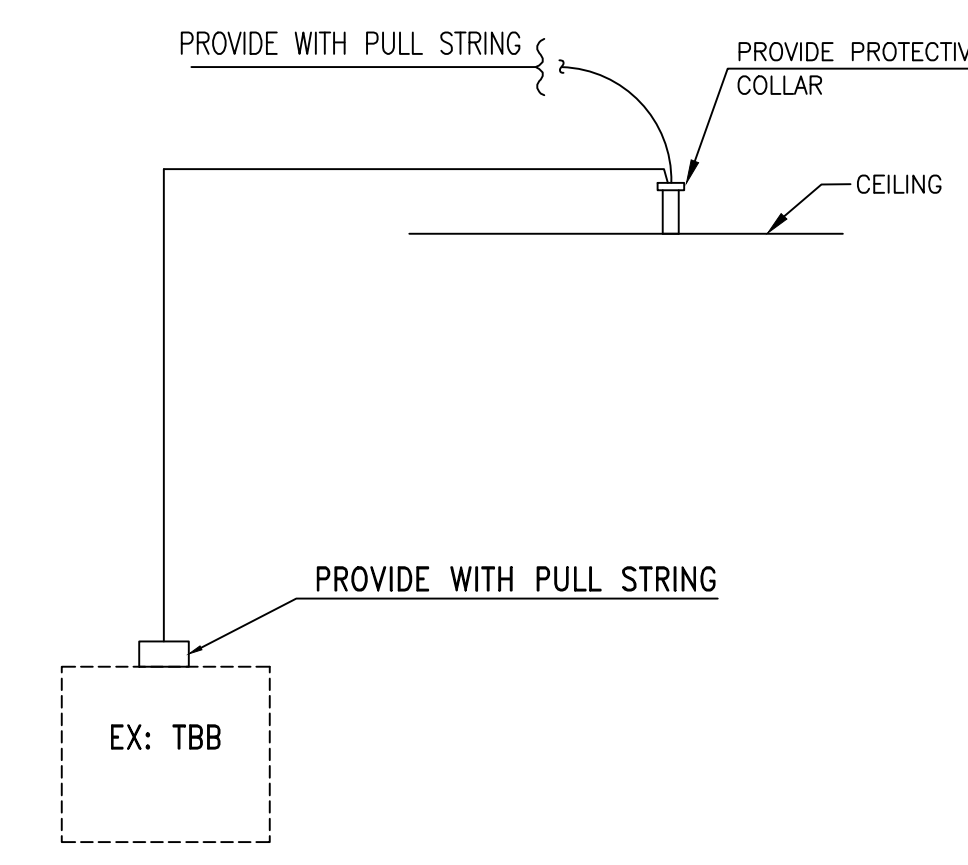


SHEET NOTES:

- 1 CONTRACTOR SHALL CONNECT NEW FIRE ALARM DEVICE TO EXISTING SIMPLEX FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL EXPAND EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED TO ACCOMMODATE NEW DEVICES. CONTRACTOR SHALL TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM UPON COMPLETION OF NEW WORK.
- 2 EXISTING DEVICE TO BE REMOVED AND RELOCATED. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT/CABLING AS REQUIRED. PROVIDE NEW CABLING IF REQUIRED.
- 3 VERIFY EXACT LOCATION OF ADA PUSHBUTTON PRIOR TO ROUGH-IN.
- 4 COORDINATE AND PROVIDE ALL REQUIRED FIRE ALARM MONITORING REQUIRED FOR FIRE PUMP.
- 5 PROVIDE ALL NECESSARY FIRE ALARM CONNECTION NEEDED FOR MONITORING OF FIRE PUMP.
- 6 CONTRACTOR SHALL CUT/PATCH/REPAIR FLOORS AS NEEDED TO INSTALL FLOOR BOXES AND TWO 1" CONDUITS WITH PULLSTRING UNDER FLOOR TO EXISTING TBB.

GENERAL NOTES:

1. ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. COORDINATE ALL MOUNTING HEIGHTS WITH MILLWORK SHOP DRAWINGS TO INSURE CORRECT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
4. ALL COMMUNICATION CONDUITS SHALL BE RUN CONTINUOUS BACK TO TBB.

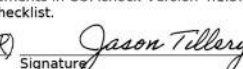


2 COMMUNICATIONS RISER DIAGRAM
NO SCALE

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

1

1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, FITTINGS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION
4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., AND BELOW OBSTRUCTION WHEN CONFLICT OCCURS.
7. ALL LED LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
8. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
9. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
10. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
11. CONTRACTOR SHALL PROVIDE ALL ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NECESSARY TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
12. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

COMCHECK Software Version 4.1.5.5					
 Exterior Lighting Compliance Certificate					
Project Information					
Energy Code:	06.1 (2013) Standard				
Project Title:	RENOVATION TO BRIGHT HALL TROY UNIVERSITY				
Project Type:	New Construction				
Exterior Lighting Zone:	(Unlabeled rural area (L7))				
Consultant Site:			Designer/Consultor:		
Owensboro			JACOZ LITTELL OWEN ASSOCIATES MILLICAP, INC.		
Allowed Exterior Lighting Power					
Area/Surface Category		B Quantity	C Allowed Watts / Unit	D Tabulate Watts	E Allowed Watts (C x D)
Walkway > 12' wide		403 of 3	5.7 Yes	2300	2300
			Total Tabulate Watts	2300	
			Total Allowed Watts	2300	
			Total Allowed-Supervisory Watts	2300	
(a) All ratings listed are only for ambient outdoor installation.					
(b) A supplemental allowance up to 500 watts may be applied toward compliance of both non-landscape and landscape installations.					
Proposed Exterior Lighting Power					
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast		B Lamp Count	C # of Fixtures Watts	D E (C x D)	
Walkway < 10' wide, 4500 R, 40' roadway length, Tabletop, Walkway		1	45	180	
LED Track					180
General Lighting PASSES (Design 77) better than code					
Exterior Lighting Compliance Statement					
Compliance Statement: The proposed exterior lighting design presented in this document is consistent with the building plans, requirements, and other applicable regulations with this general application. The proposed exterior lighting design has been designed to meet 06.1 (2013) Standard requirements in COMPLIANCE Version 4.1.5.5 and to comply with any applicable local requirements. I, the undersigned, certify that the design complies with the applicable requirements.					
 Jason Telley Signature				DATE: 08-19-2020	
Project Title: RENOVATION TO BRIGHT HALL TROY UNIVERSITY					
Project Name: UNIFORM ADDRESS LIST TROY UNIVERSITY/RIGHT HALL/Correspondence/RIGHT HALL TROY Phs - 2 of 6					
UNIVERSITY.EDU					

1. ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW, NO WIRING THRU FIXTURES, NO MORE THAN ONE LUMINAIRE SHALL BE CIRCUITED TO ONE JUNCTION BOX.
2. LUMINAIRE SPLIT WIRE TO BE A MINIMUM OF #14 GAGE PRE-STRAINED GALVANIZED WIRE ATTACHED AT OPPOSITE CORNERS, LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
3. CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS PROVIDED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
4. JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAT-IN CEILING INSTALLATION. PROVIDE REMOVAL ALL-THREE PHASE AND/OR PHASE ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-0" FROM STRUCTURE.
5. CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID, IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.

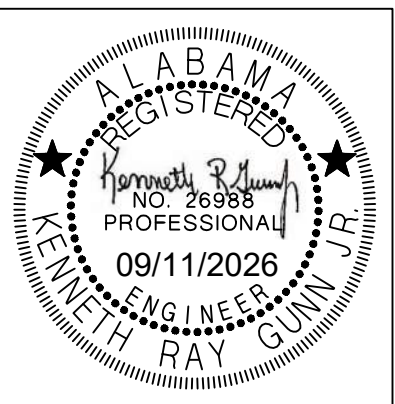


1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



RENOVATION
at
WRIGHT HALL
WRIGHT HALL on TROY UNIVERSITY, 601 UNIVERSITY AVENUE, TROY, AL 36081
for
TROY UNIVERSITY
601 UNIVERSITY AVENUE, TROY, AL 36081

SHEET TITLE:
LIGHTING SCHEDULE,
DETAILS, & NOTES



JOB NO.
MKA-26-042-00
SHEET NO:

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GA#26-132

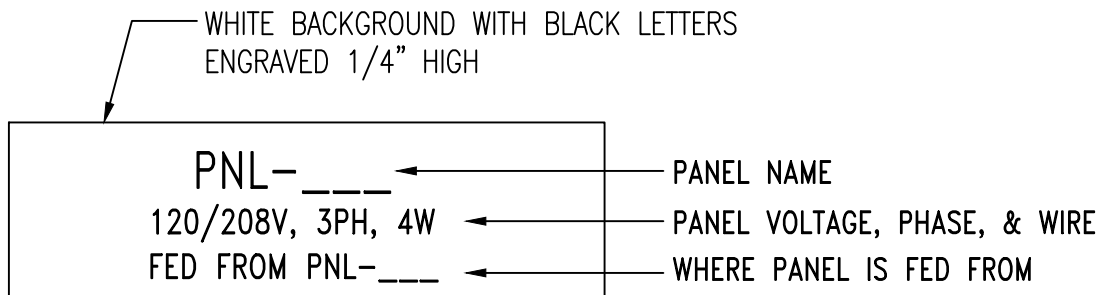
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POWER EQUIPMENT MANUFACTURES BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE AN AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO THE JOB SITE S REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

PANEL - RP1														
TYPE: 225 MAIN LUG ONLY			AIC: 22,000 AMPERES			MOUNTED: SURFACE				VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER			AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C								PHASE A	PHASE B	PHASE C	
RECEPTACLE	1,200			20	1	1	2	20	1		1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	3	4	20	1			1,200		RECEPTACLE
RECEPTACLE			1,200	20	1	5	6	20	1				1,200	RECEPTACLE
RECEPTACLE	1,200			20	1	7	8	20	1	1,200				RECEPTACLE
RECEPTACLE		1,200		20	1	9	10	20	1		1,200			RECEPTACLE
RECEPTACLE			1,200	20	1	11	12	20	1			1,200		RECEPTACLE
RECEPTACLE	1,200			20	1	13	14	20	1	1,200				RECEPTACLE
RECEPTACLE		1,200		20	1	15	16	20	1		1,200			RECEPTACLE
RECEPTACLE			1,200	20	1	17	18	20	1			1,200		RECEPTACLE
RECEPTACLE	1,200			20	1	19	20	20	1	1,200				RECEPTACLE
FLOOR BOX		1,200		20	1	21	22	20	1		1,200			FLOOR BOX
FLOOR BOX			1,200	20	1	23	24	20	1			1,200		FLOOR BOX
FLOOR BOX	1,200			20	1	25	26	20	1	1,200				FLOOR BOX
FLOOR BOX		1,200		20	1	27	28	20	1		1,200			FLOOR BOX
RECEPTACLE			1,200	20	1	29	30	20	1			1,200		RECEPTACLE
RECEPTACLE	1,200			20	1	31	32	20	1	1,200				RECEPTACLE
RECEPTACLE		1,200		20	1	33	34	20	1		1,200			RECEPTACLE
RECEPTACLE			1,200	20	1	35	36	20	1			1,200		RECEPTACLE
RECEPTACLE	1,200			20	1	37	38	20	1	1,200				RECEPTACLE
RECEPTACLE		1,200		20	1	39	40	20	1		1,200			RECEPTACLE
RECEPTACLE			1,200	20	1	41	42	20	1			1,200		RECEPTACLE
RECEPTACLE	1,200			20	1	43	44	20	1	1,200				RECEPTACLE
RECEPTACLE		1,200		20	1	45	46	20	1		1,200			RECEPTACLE
RECEPTACLE			600	20	1	47	48	20	1			1,200		RECEPTACLE
FLOOR BOX	1,200			20	1	49	50	20	1	1,200				FLOOR BOX
FLOOR BOX		1,200		20	1	51	52	20	1		1,200			FLOOR BOX
FLOOR BOX			1,200	20	1	53	54	20	1			1,200		FLOOR BOX
FLOOR BOX	1,200			20	1	55	56	20	1	1,200				FLOOR BOX
FLOOR BOX		1,200		20	1	57	58	20	1		1,200			FLOOR BOX
RECEPTACLE			1,200	20	1	59	60	20	1			1,200		RECEPTACLE
RECEPTACLE	1,200			20	1	61	62	50		4,150				WH-1
RECEPTACLE		1,200		20	1	63	64		2		4,150			
LIGHTS			1,350	20	1	65	66	20	1			600		JP-CON-1
LIGHTS	1,300			20	1	67	68	20	1	600				FP-CON-1
LIGHTS		1,375		20	1	69	70	20	1					SPARE
LIGHTS			1,375	20	1	71	72	20	1					SPARE
LIGHTS	1,375			20	1	73	74	20		300				JP-1 (JOCKY PUMP)
LIGHTS		1,425		20	1	75	76				300			
LIGHTS			1,005	20	1	77	78		3			300		
SPARE				20	1	79	80							BUSSED SPACE
SPARE				20	1	81	82							BUSSED SPACE
SPARE				20	1	83	84							BUSSED SPACE
SUB TOTAL (VA)	15,875	16,000	15,130								17,050	16,450	12,900	
NOTES:														
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.														
2. PROVIDE ARC FAULT LABEL PER DETAIL.														
TOTAL LOAD PHASE A: 32,925 (VA)														
TOTAL LOAD PHASE B: 32,450 (VA)														
TOTAL LOAD PHASE C: 28,030 (VA)														
TOTAL LOAD: 93,405 (VA) = 259 AMP														

PANELBOARD NOTES:

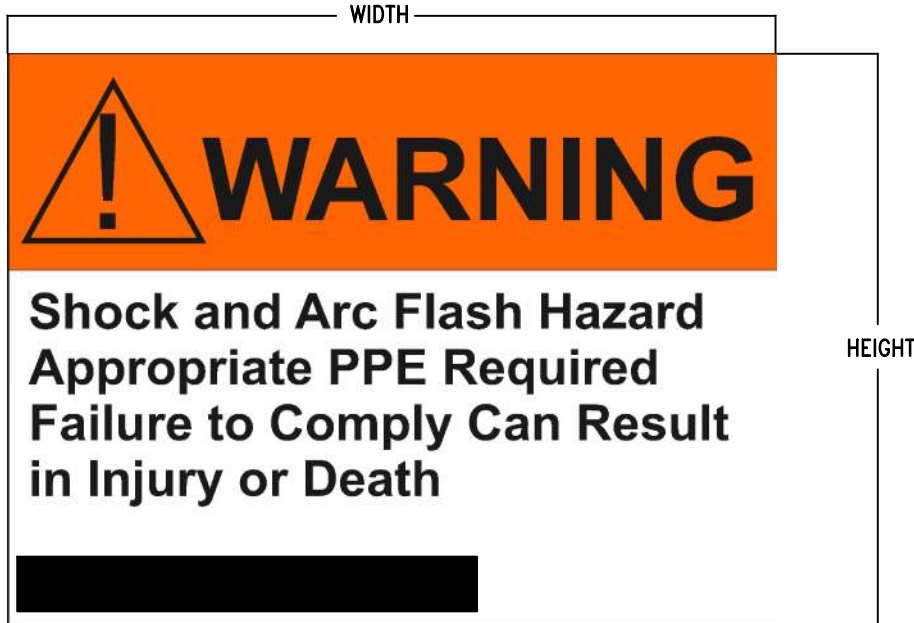
1. PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
6. PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
7. ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
8. PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
9. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
10. ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
11. COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
12. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.



TYPICAL NORMAL POWER NAMEPLATE

1
ES.2
DETAIL - TYPICAL PANELBOARD NAMEPLATE

NO SCALE



NOTES:

1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE:
EQUIPMENT TYPE HEIGHT WIDTH
INDOOR 4" 6"
OUTDOOR 4" 6"

ARC FLASH WARNING LABELS

NO SCALE



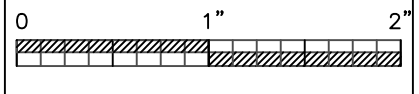
PROJ. MGR.:	J. TILLERY
DRAWN:	J. TILLERY
DATE:	08.21.26
REVISIONS	



PROJ. MGR.:	J. TILLERY
DRAWN:	J. TILLERY
DATE:	09-17-2026
REVISIONS	08-21-26

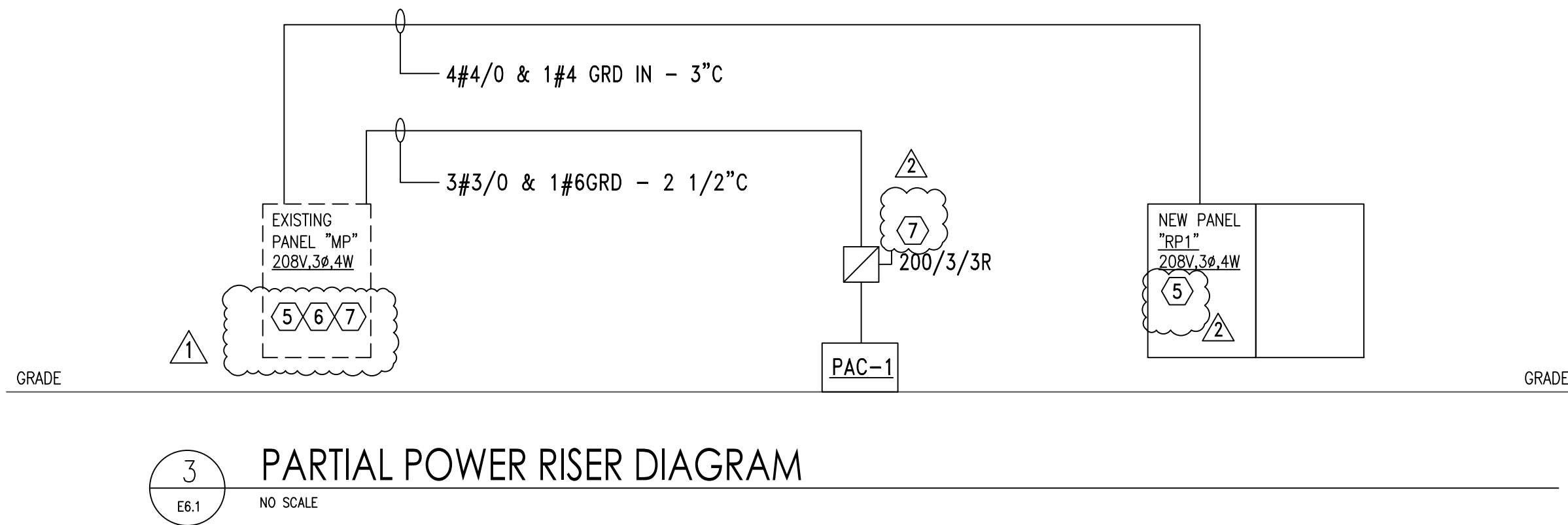
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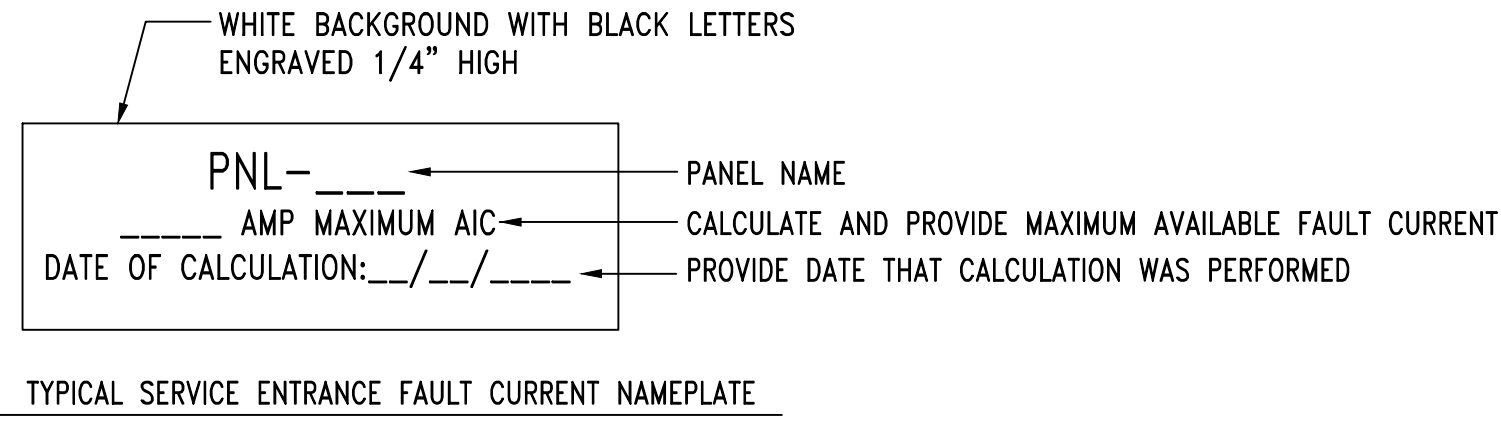
POWER RISER DIAGRAM NOTES:

1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING . CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.



NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCUALTION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



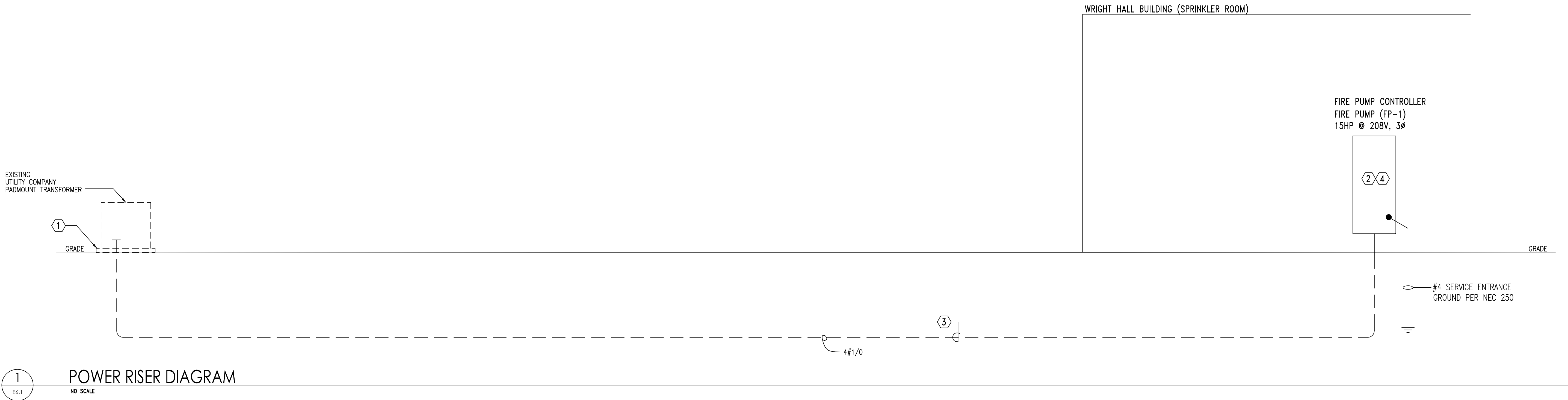
DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

SHEET NOTES:

- 1 EXISTING UTILITY COMPANY PAD MOUNT TRANSFORMER.
- 2 PROVIDE PHENOLIC LABEL THAT INDICATES THE FOLLOWING: "ELECTRICAL SERVICE 2 OF 2 "FIRE PUMP", OTHER ELECTRICAL SERVICES LOCATED AT PANEL "MP."
- 3 CONCRETE ENCASE FEEDER FOR FIRE PUMP FROM TRANSFORMER TO FIRE PUMP CONTROLLER.
- 4 FIRE PUMP SHALL BE RATED FOR SERVICE ENTRANCE, COORDINATE MAX LUG SIZE WITH FIRE PUMP CONTROLLER PROVIDER AND IF THERE ARE ANY CONFLICTS ALERT ENGINEER PRIOR TO INSTALLING SERVICE ENTRANCE FEEDER.
- 5 CONTRACTOR SHALL PROVIDE (1) ONE NEW 225A/3P (65K) AIC CIRCUIT BREAKER IN EXISTING PANEL "MP". ADJUST EXISTING CIRCUIT BREAKERS AND FEEDERS AS REQUIRED TO MOUNT NEW CIRCUIT BREAKERS.
- 6 PROVIDE PHENOLIC LABEL THAT INDICATES THE FOLLOWING: "ELECTRICAL SERVICE 1 OF 2 "MP", OTHER ELECTRICAL SERVICES LOCATED IN FIRE PUMP ROOM"
- 7 CONTRACTOR SHALL PROVIDE (1) ONE NEW 200A/3P (65K) AIC CIRCUIT BREAKER IN EXISTING PANEL "MP". ADJUST EXISTING CIRCUIT BREAKERS AND FEEDERS AS REQUIRED TO MOUNT NEW CIRCUIT BREAKERS.

POWER RISER DIAGRAM NOTES:

1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
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3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. COORDINATE WITH GROUNDING DETAILS ON SHEET E7.2 FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
6. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
7. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
8. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.



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