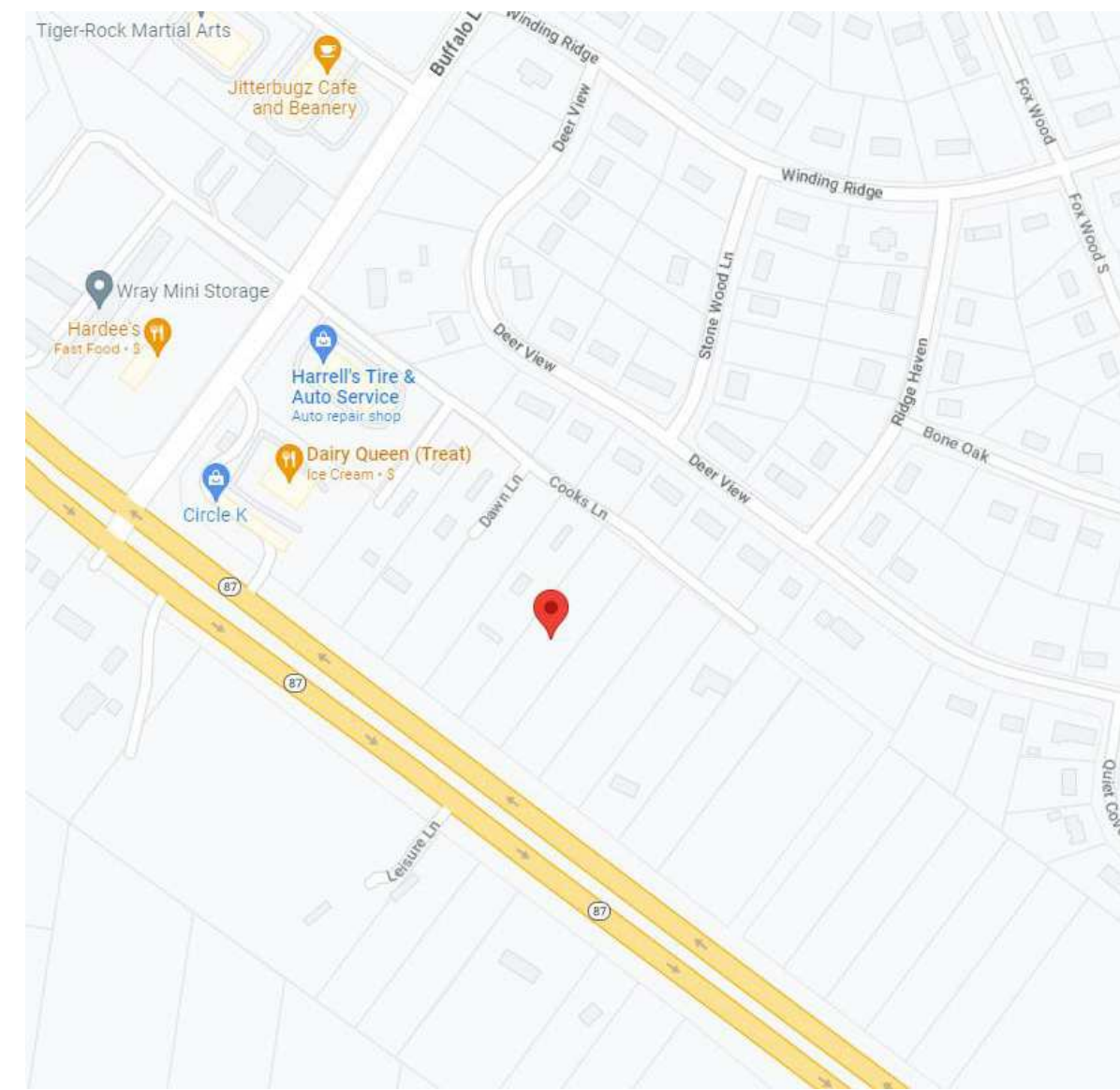


ABBREVIATIONS

& @ Ø	AND AT, AT THE RATE OF ROUND, OR DIAMETER	GL GLB	GLASS GLUED-LAMINATED BEAM	RAD REQ REV RM	RADIUS REQUIRED REVISION ROOM
ADJ AFF	ADJUSTIBLE ABOVE FINISHED FLOOR	HDR HDWD H.M. HOR	HEADER HARDWOOD HOLLOW METAL HORIZONTAL	SCHED SECT SH SHT SIM	SCHEDULE SECTION SHELF SHEET SIMILAR
BLDG BM BOT A.N.A.	BUILDING BEAM BOTTOM BOUNDARY NAILING	LAB LFRE	LABORATORY LATERAL FORCE RESISTING ELEMENT	SPECS STD STRUCT	SPECIFICATIONS STANDARD STRUCTURAL
C.L.A.A. CLG CMU COL CONC	CENTER-LINE CEILING CONCRETE MASONRY UNIT(S) COLUMN CONCRETE	MAX MECH MTL MFR MIN MISC	MAXIMUM MECHANICAL METAL MANUFACTURER MINIMUM MISCELLANEOUS	T&B THK TYP	TOP AND BOTTOM THICK TYPICAL
DET DIM DWG	DETAIL DIMENSION DRAWING	(A) N.A. N.T.S.	NEW NOT APPLICABLE NOT TO SCALE	U.B.C. U.N.O.	UNIFORM BUILDING CODE UNLESS NOTED OTHERWISE
(E) EA E.N.B. E.W. ELEV. EQUIP EXT EXG	EXISTING EACH EDGE NAIL EACH WAY ELEVATOR, ELEVATION EQUIPMENT EXTERIOR EXISTING	o/c P.A. PART PL PLYWD PSI	ON CENTER POST ABOVE PARTITION PLANE, OR PLATE PLYWOOD POUNDS-PER-SQUARE-INCH	VERT w/ WD WM W.R.	VERTICAL WITH WOOD WASHING MACHINE WATER-RESISTANT
F.L. FLR	FLOW-LINE FLOOR				

PHALANX CROSSFIT

2659 Hwy 87 S.
Cameron, NC 28326



VICINITY MAP



See notes M101

GENERAL LEGENDS

PLAN NOTATIONS	Room name	
ROOM TAG	101	
DOOR TAG	101	
WINDOW TAG	11	
EQUIPMENT TAG	1i	
WALL TYPE TAG	1i	
DRAWING REFERENCES		
ELEVATION TAG	1 Ref	DETAIL # SHEET # WHERE DTL IS LOCATED
SECTION TAG	1 SIM	DETAIL # SHEET # WHERE DTL IS LOCATED
DETAIL TAG	1 A101	DETAIL # SHEET # WHERE DTL IS LOCATED

MEASUREMENTS	
VERTICAL DISTANCE GIVE ON PLAN	NAME ELEV X' - XX"
VERTICAL DISTANCE GIVE ON ELEVATION	NAME ELEV X' - XX"
DIMENSION	4' - 2"

NOTATION AND SYMBOLS	
EDGE OF DETAIL AREA; DRAWING CONTINUES	
DELTA/DRAWING	
REVISION CLOUD	
NORTH ARROW	
CENTER LINE	

WALL LEGEND

EXTERIOR METAL WALL PANEL WITH LINER SYSTEM & FURRING W/ DRYWALL	
EXTERIOR METAL WALL PANEL WITH LINER SYSTEM	
WOOD STUD PARTITION	

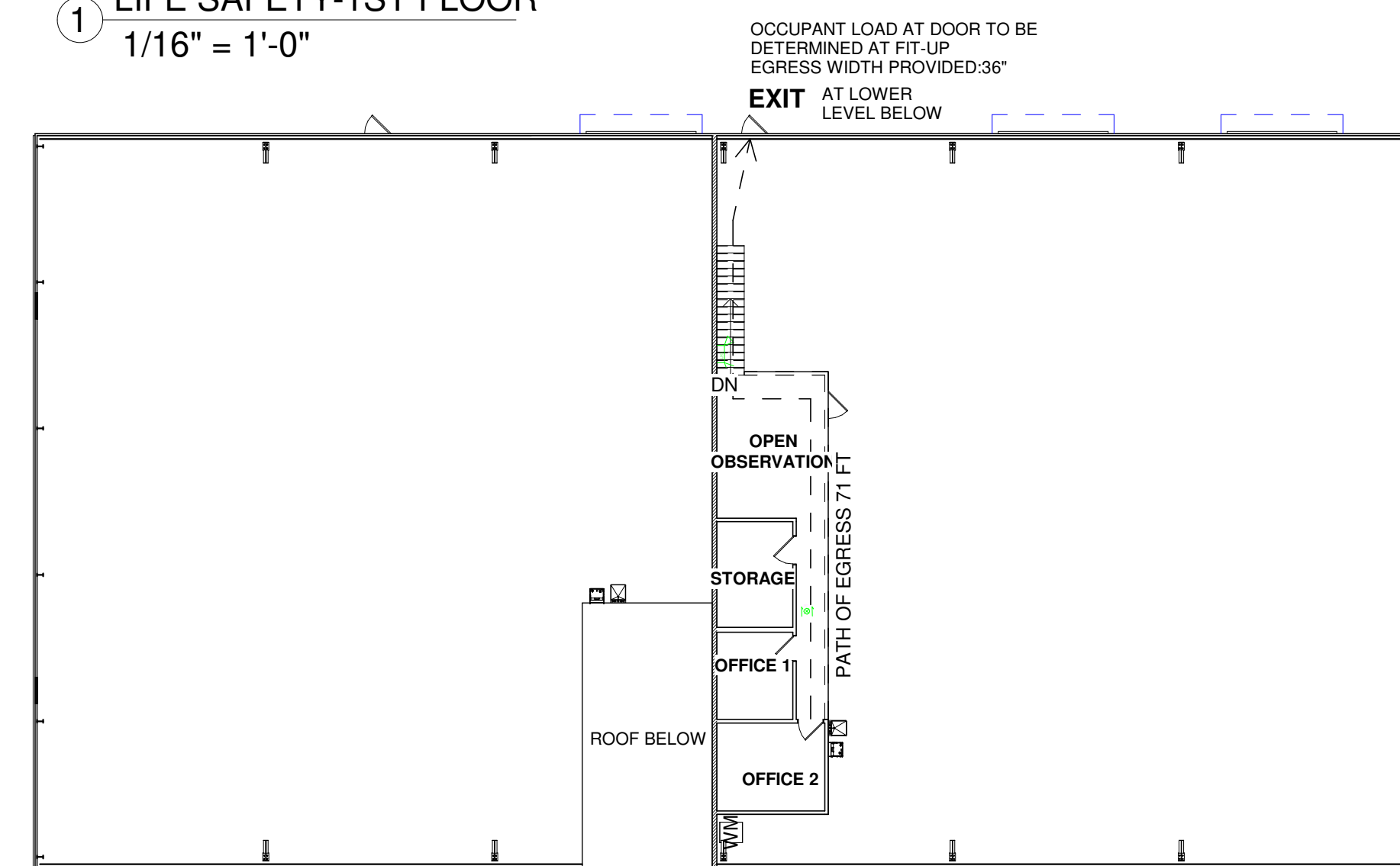
ARCHITECTURAL NOTES

- DRIP EDGE: PROVIDE 1" DRIP EDGE ON FLASHING OVER OPENINGS IN EXTERIOR WALLS.
 - WOOD PROTECTION: WOOD FRAMING MEMBERS THAT ARE NOT PRESSURE TREATED WITH A WOOD PRESERVATIVE AND WHICH ARE SUPPORTED BY CONCRETE IN CONTACT WITH THE GROUND WILL BE SEPARATED FROM THE CONCRETE BY AT LEAST 6 MIL POLY OR EQUAL.
 - STAIR DIMENSIONS (ALL INTERIOR AND EXTERIOR STAIRS REFER TO DRAWINGS FOR ACTUAL DIMENSIONS)
 - MINIMUM RISER HEIGHT = 4"
 - MAXIMUM RISER HEIGHT = 8"
 - MINIMUM TREAD DEPTH = 9"
 - MINIMUM NOSING = 43"
 - MAXIMUM NOSING = 1"
 - MINIMUM HEADROOM = 6'-8"
 - MINIMUM WIDTH = 3'-0"
 - HANDRAIL MINIMUM HEIGHT = 2'-10"
 - HANDRAIL MAXIMUM HEIGHT = 3'-2"
 - GUARD MINIMUM HEIGHT = 3'-0"
- NOTE: A CLEARANCE OF NOT LESS THAN 1 1/2" WILL BE PROVIDED BETWEEN HANDRAIL AND ANY SURFACE BEHIND IT.

DRAWING INDEX	
Sheet Number	Sheet Name
A00	LEGENDS, INDEX
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	ELEVATIONS
A104	SECTIONS AND TOILET DETAILS



1 LIFE SAFETY-1ST FLOOR
1/16" = 1'-0"



2 LIFE SAFETY-2ND FLOOR
1/16" = 1'-0"

GENERAL NOTES

- PERMIT DRAWINGS DO NOT INDICATE OR DESCRIBE THE COMPLETE WORK REQUIRED FOR PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF CONSTRUCTION.
- FACTORY AND CONTRACTOR TO VERIFY AND BECOME FAMILIAR WITH ALL SITE CONDITIONS AND DIMENSIONS. ANY DISCREPANCIES THAT CONFLICT WITH DESIGN DOCUMENTS, AND WOULD REQUIRE DESIGN MODIFICATIONS, WILL BE COORDINATED WITH THE ARCHITECT, IF NECESSARY.
- ALL CONSTRUCTION WILL COMPLY WITH ALL CURRENT APPLICABLE BUILDING CODE(S) FOR THE AGENCY HAVING JURISDICTION, INCLUDING ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
- THE CONTRACTOR AND FACTORY WILL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES REQUIRED FOR SAFE EXECUTION AND COMPLETION OF WORK, INCLUDING INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE CONTRACTOR WILL COORDINATE AND COOPERATE WITH THE WORK OF ALL TRADES INVOLVED, INCLUDING ANY REQUIRED INSPECTIONS BY AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR WILL MAINTAIN THE SITE IN A CLEAN CONDITION AT ALL TIMES, AND REMOVE CONSTRUCTION DEBRIS AS OFTEN AS NECESSARY OR AS DIRECTED BY LOCAL AUTHORITIES.
- THE CONTRACTOR WILL PROVIDE NECESSARY PROTECTION OF HIS WORK AND ADJACENT AREA. THIS INCLUDES NOISE AND DUST CONTROL.
- THE BUILDING PERMIT AND ANY APPLICABLE IMPACT FEES WILL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- TYPICAL INTERIOR WALL CONSTRUCTION TO BE 2 X 4 WOOD STUDS WITH 1/2" GYP BD ON EACH SIDE OF STUD. PROVIDE SOUND ATTENUATION BATTS IN ALL INTERIOR RESTROOM WALLS, AND OTHER LOCATIONS IF REQUIRED BY OWNER.
- PROVIDE BLOCKING IN WALLS AND CEILINGS FOR ANTICIPATED LOCATIONS OF HEAVY LIGHT FIXTURES, HOOKS, TOWEL BARS, ETC.
- CONTRACTOR WILL PROVIDE LOCATION AND TAP INTO ALL UTILITIES PER CITY REQUIREMENTS.
- CONVENTIONAL DETAILS WILL APPLY WHERE NO SPECIAL DETAIL IS PROVIDED.
- PRODUCT SUPPLIERS WILL FIELD MEASURE AREA OF WORK, AND SUBMIT SHOP DRAWINGS TO CONTRACTOR PRIOR TO CONSTRUCTION AND INSTALLATION. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT FOR REVIEW, IF NECESSARY.
- ALL PLUMBING SUPPLY LINES IN EXTERIOR WALLS TO BE FULLY INSULATED.
- PROVIDE SMOKE DETECTORS PER LOCAL CODE.
- PROVIDE CLOSED CELL INSULATION WITHIN STUDS ALONG EXTERIOR WALLS.
- PROVIDE A 1/2" GAP ON GYP BD BORDER (TOP, BOTTOM AND SIDES) AND FILL WITH ACOUSTICAL SEALANT TO PREVENT TRANSFER OF SOUND AND VIBRATION TO ADJACENT SUITES.
- ANY PENETRATIONS OF FIRE RATED ASSEMBLIES WILL BE FIRE-BLOCKED AND SEALED PER APPROVED UL ASSEMBLIES.
- THE CONTRACTOR WILL COORDINATE ALL MILLWORK WITH FURNITURE, EQUIPMENT, LIGHTING, AN, ELECTRICAL, AND OTHER SURROUNDINGS.
- ANY DAMAGE TO THE BUILDING DURING THE CONSTRUCTION IS TO BE REPORTED TO THE OWNER IMMEDIATELY.
- ALL SHIPPING CONTAINERS USED WILL MEET THE CRITERIA FOR STRUCTURAL BUILDING MATERIALS DESCRIBED IN AC462 FROM ICC-ES

LIFE SAFETY LEGEND	
EXIT TRAVEL DISTANCE & TIME	Length Time sec
EMERGENCY EXIT LED LIGHT c/w BATTERY PACK	
EMERGENCY LIGHT	
2 HR RATED WALL	
PATH OF EGRESS	

OCCUPANT LOAD CALCULATION:			
OCCUPANCY	AREA(IN SQ. FT.)	OCCUPANT LOAD FACTOR (PER TABLE 1004.1.2)	OCCUPANT LOAD
A-3	6000	50 GROSS (EXERCISE ROOMS WITH EQUIPMENT)	120
B	6000	100 GROSS (BUSINESS AREAS)	60
TOTAL DESIGN OCCUPANT LOAD:			180

NO.	DATE	DESCRIPTIONS
00	05/02/2023	FOR SUBMITTAL

LEGENDS, INDEX

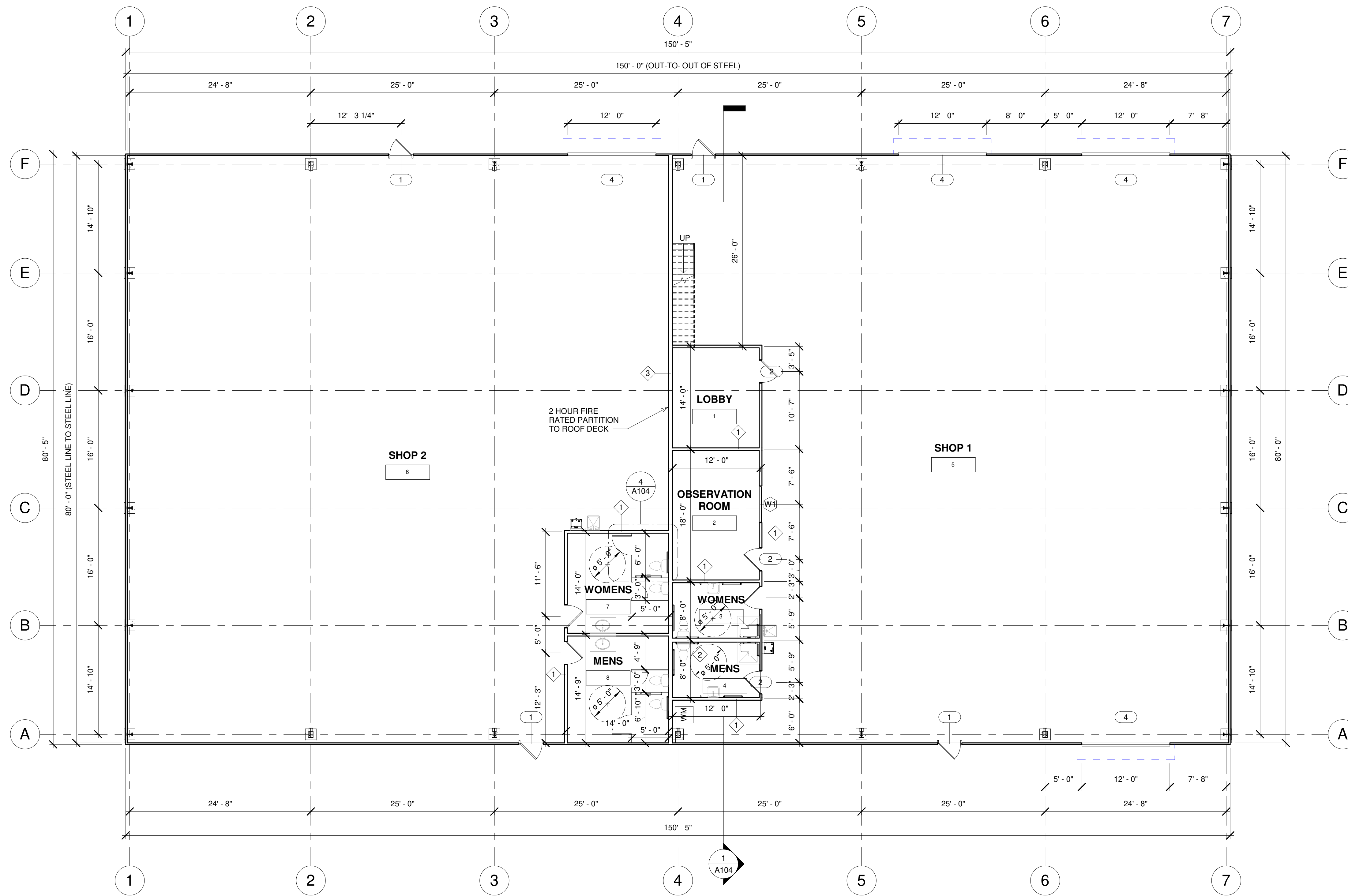
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EEI EQUAGEN
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FIRM LIC. # 1869

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EMAIL: INFO@EQUAGEN.COM

DRAWN BY:	BR
CHECKED BY:	MKC
DATE:	07/21/2023
SCALE:	AS SHOWN
A00	22-4006



1 1st FLOOR PLAN
1/8" = 1'-0"

- GENERAL PLAN NOTES:**
- DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
 - CONTRACTOR SHALL VERIFY AND COORDINATE ALL OPENINGS THROUGH FLOORS, CEILINGS, AND WALLS WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
 - DIMENSIONS TO INTERIOR WALLS ARE FROM INSIDE OF EXTERIOR WALL, INSIDE OF FIRE PARTITION AND CENTER OF OTHER INTERIOR WALLS.
 - DIMENSIONS TO DOORS AND WINDOWS ARE TO FACE OR TO CENTERLINE OF FINISHED OPENING.

NO.	DATE	DESCRIPTIONS
00	05/02/2023	FOR SUBMITTAL

REVISIONS

FIRST FLOOR PLAN

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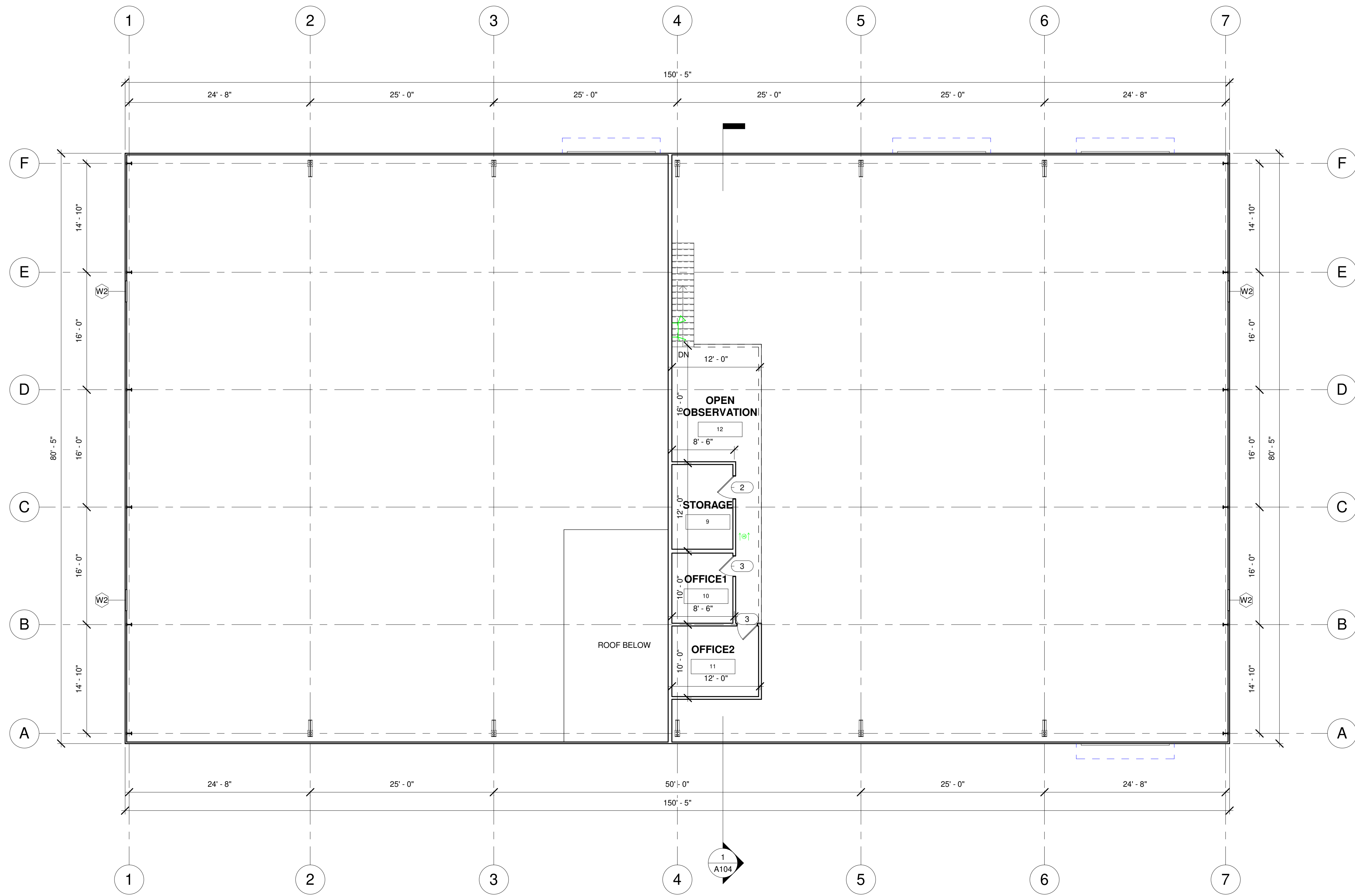


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DATE:	07/21/2023
SCALE:	AS SHOWN

A101 22-4006

*PAPER SIZE: ARCH D



1 2nd FLOOR PLAN
1/8" = 1'-0"

- GENERAL PLAN NOTES:**
- DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
 - CONTRACTOR SHALL VERIFY AND COORDINATE ALL OPENINGS THROUGH FLOORS, CEILINGS, AND WALLS WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
 - DIMENSIONS TO INTERIOR WALLS ARE FROM INSIDE OF EXTERIOR WALL, INSIDE OF FIRE PARTITION AND CENTER OF OTHER INTERIOR WALLS.
 - DIMENSIONS TO DOORS AND WINDOWS ARE TO FACE OR TO CENTERLINE OF FINISHED OPENING.

REVISIONS	
NO.	DATE
00	06/02/2023
	FOR SUBMITTAL
	DESCRIPTIONS

SECOND FLOOR PLAN

2659 Hwy 87 S.
Cameron, NC 28326

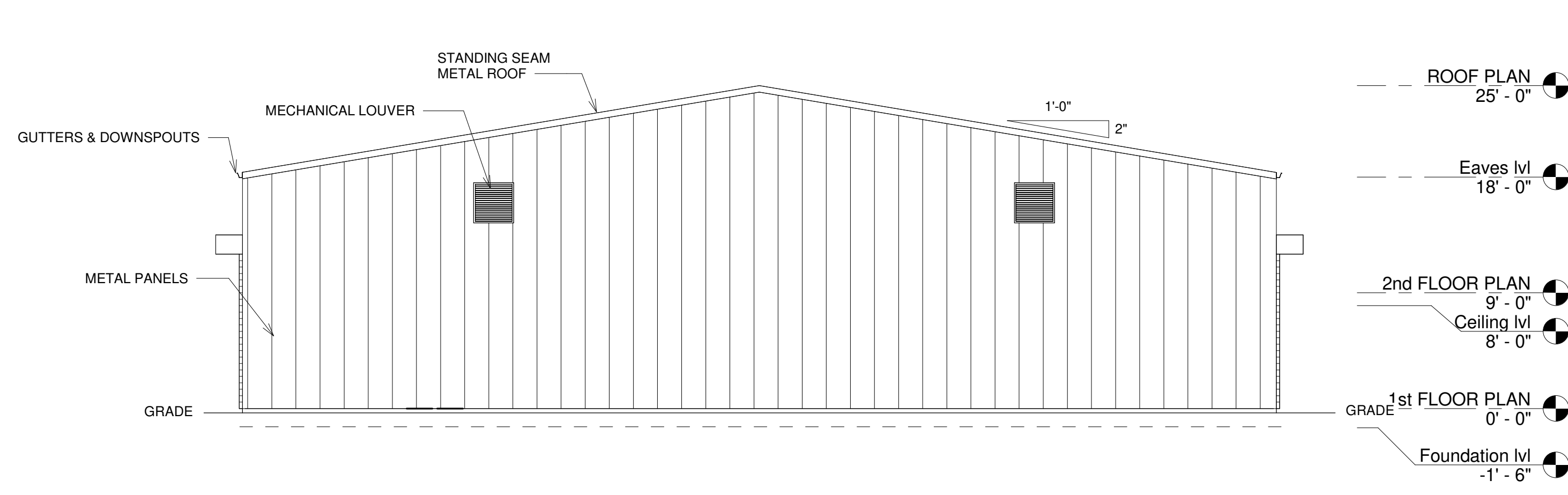


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FIRM LIC. # 1869

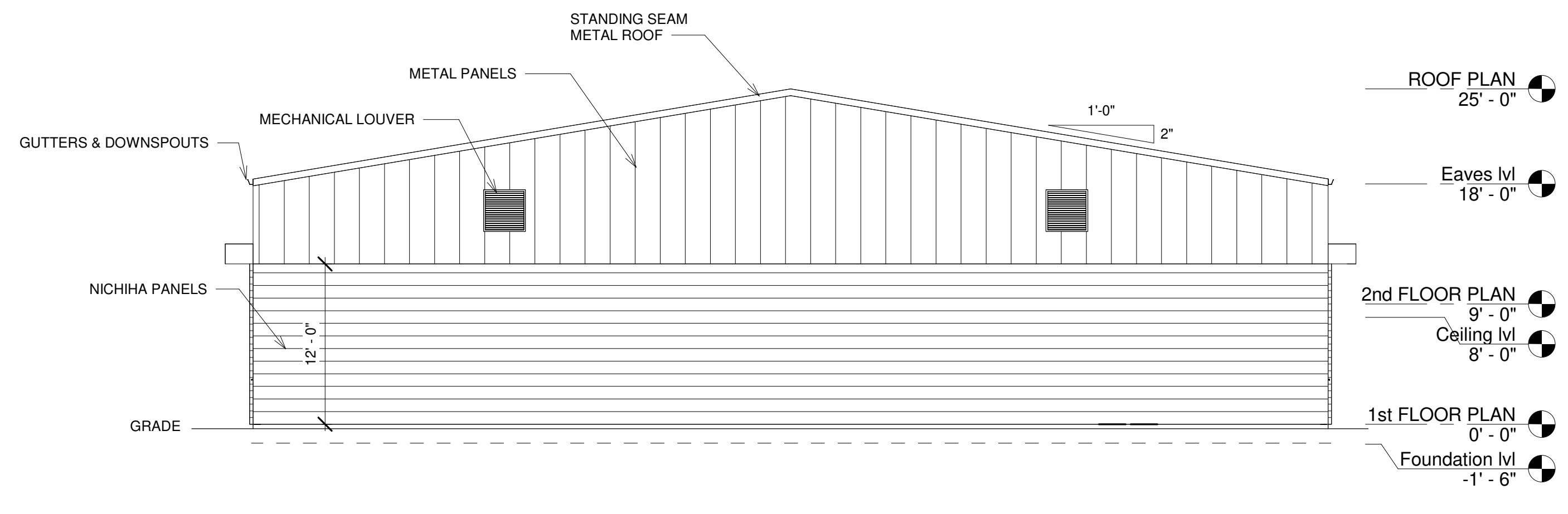
8045 ARCO CORPORATE DR, SUITE 220
RALEIGH, NC 27617
PHONE: 919.267.3004
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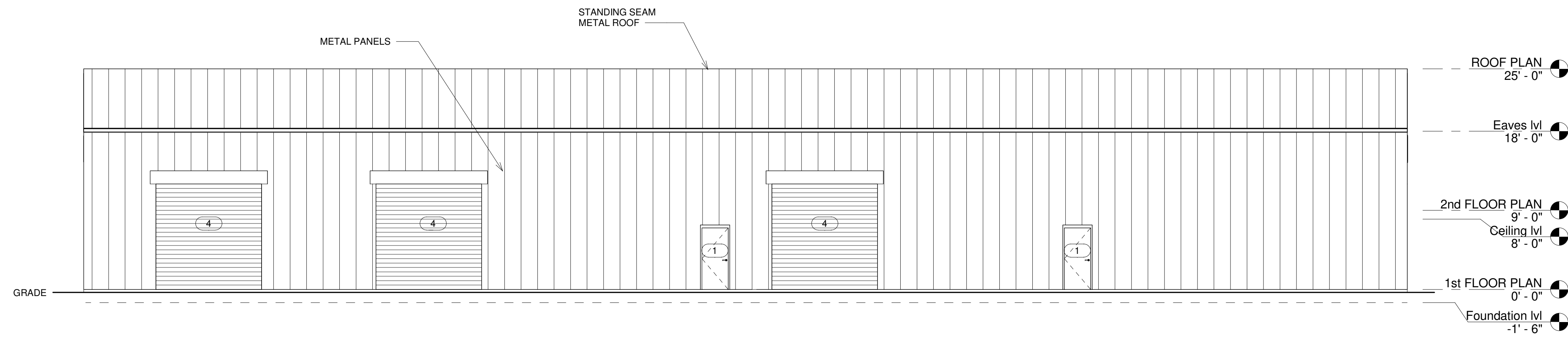
A102 22-4006



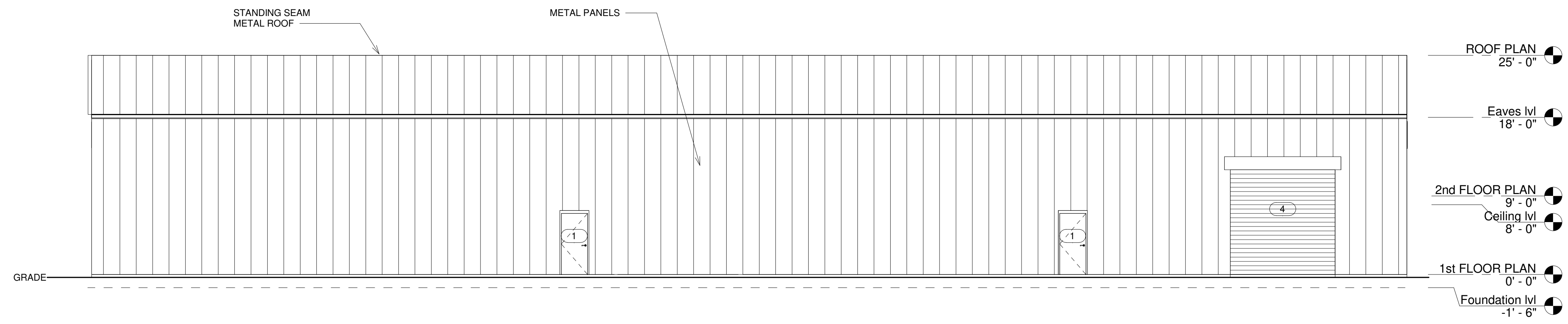
① EAST ELEVATION
1/8" = 1'-0"



② WEST ELEVATION
1/8" = 1'-0"



③ NORTH ELEVATION
1/8" = 1'-0"



④ SOUTH ELEVATION
1/8" = 1'-0"

Door Schedule				
Type Mark	Width	Height	Count	Remarks
1	3'-0"	7'-0"	4	
2	3'-0"	7'-0"	7	
3	2'-8"	7'-0"	2	
4	12'-0"	12'-0"	4	
Total count			17	

Window Schedule					
Type Mark	Assembly Code	Width	Height	Count	Description
W1	B2020100	5'-0"	4'-0"	1	
W2	B20	3'-0"	3'-0"	4	Mechanical
Total count				5	

REVISIONS	
NO.	DATE
00	05/02/2023
	FOR SUBMITTAL
	DESCRIPTIONS

ELEVATIONS

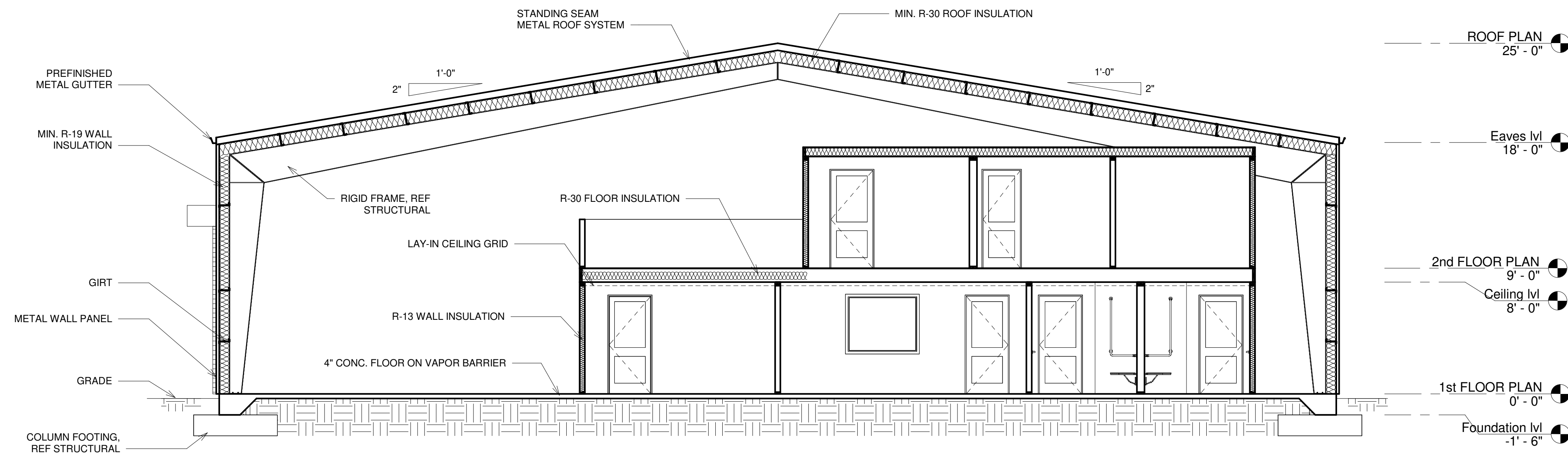
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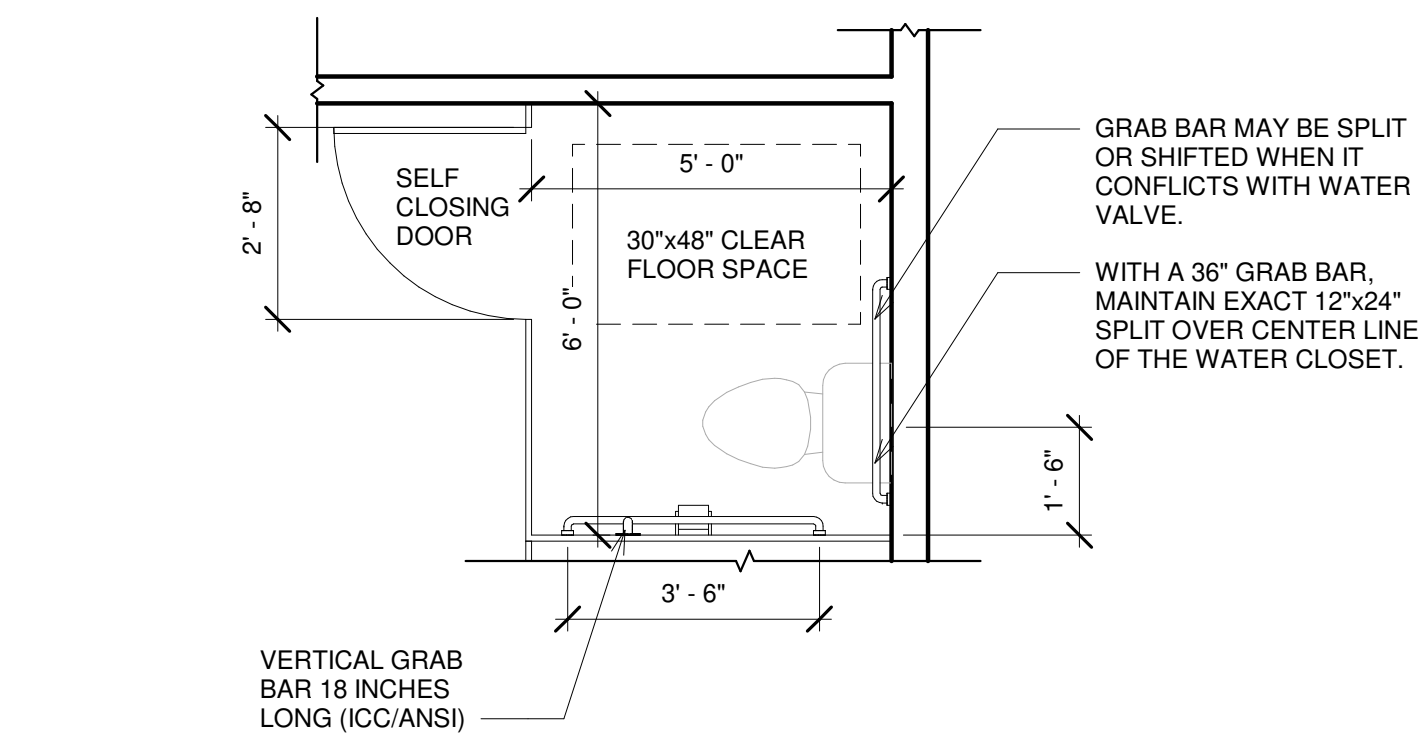
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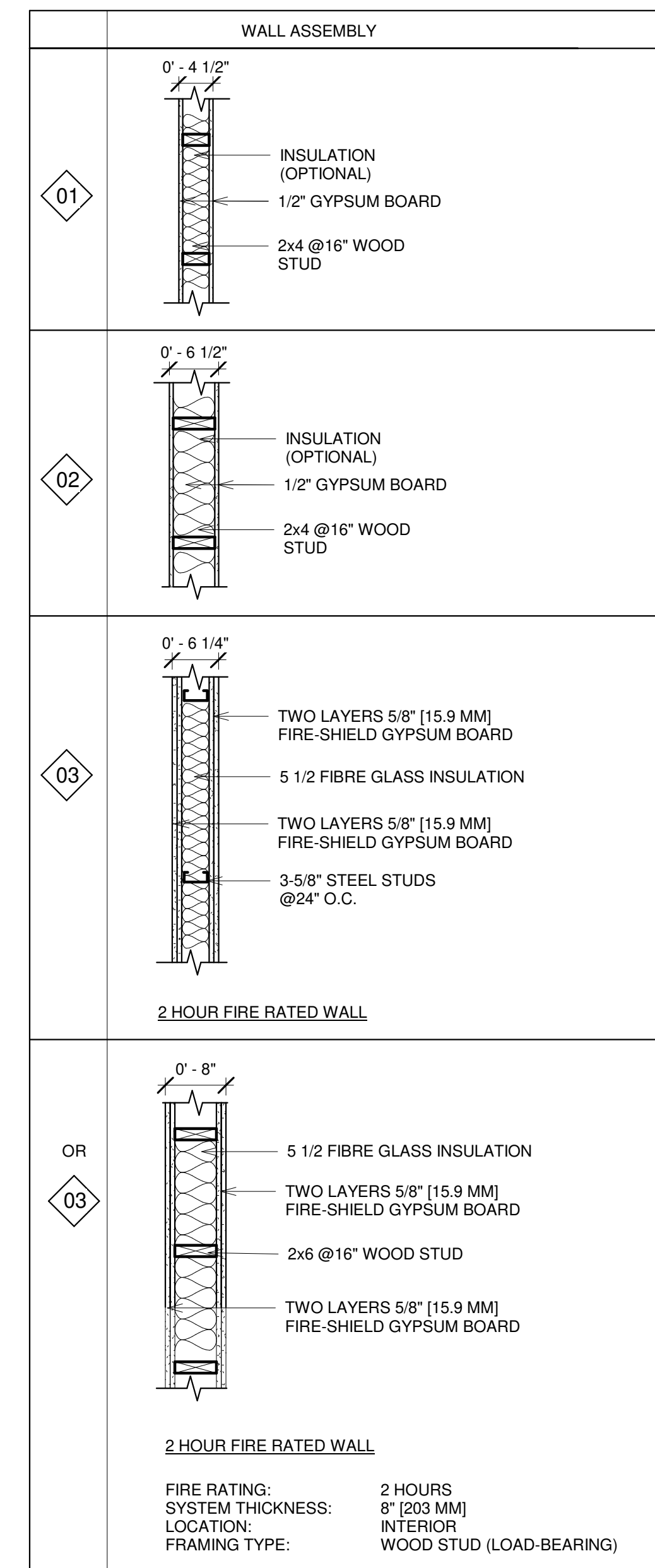
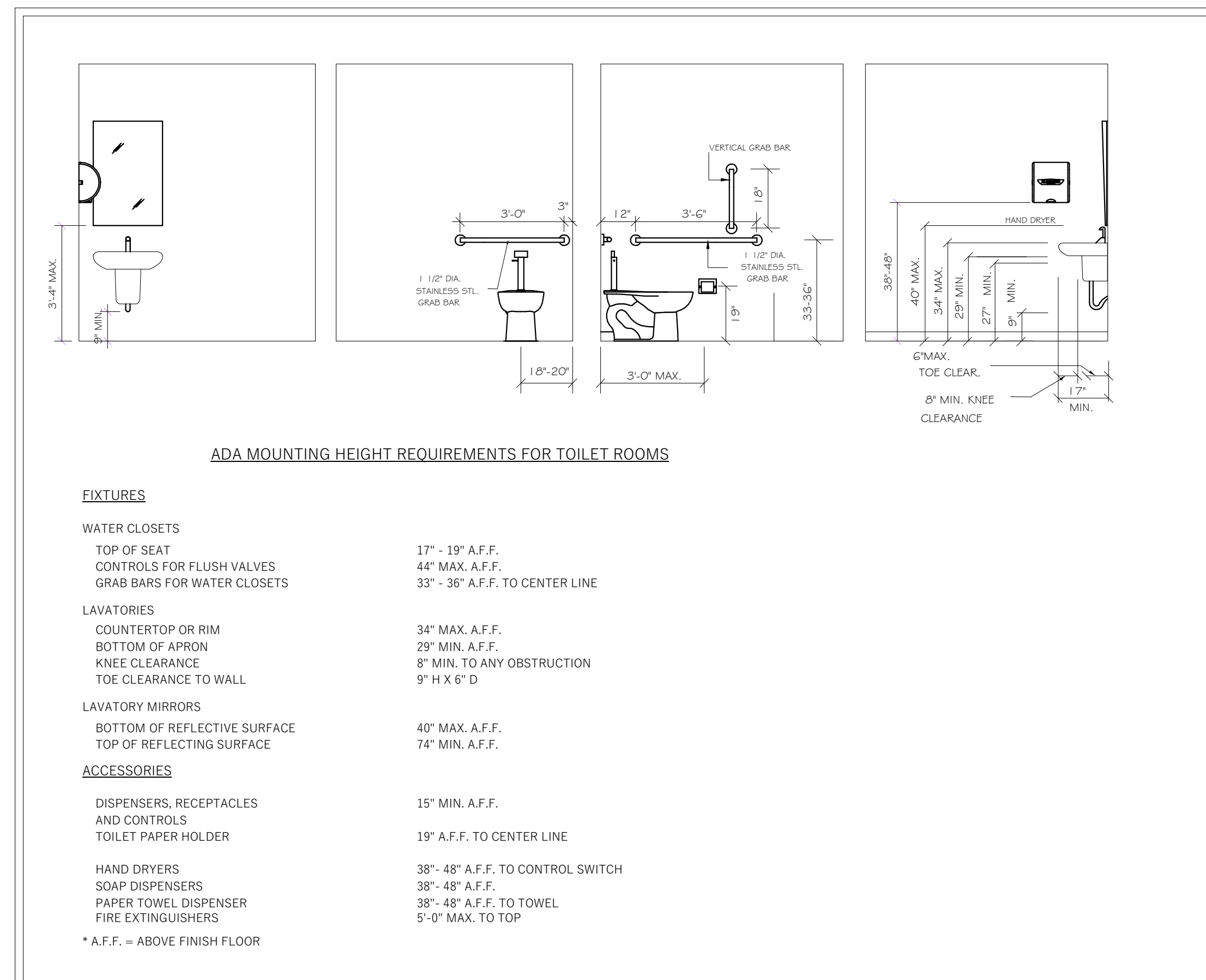
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A103	22-4006



1 SECTION AT 1-1
3/16" = 1'-0"



4 ADA TOILET COMPARTMENT
3/8" = 1'-0"



2 WALL TYPES
3/4" = 1'-0"

REVISIONS	
NO.	DATE
00	05/02/2023

SECTIONS AND TOILET DETAILS

2659 Hwy 87 S.
Cameron, NC 28326



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SCALE:	AS SHOWN

A104 22-4006

*PAPER SIZE: ARCH D

GENERAL NOTES

DESIGN DATA:
 APPLICABLE CODE: NCBC 2018, ACI 318-19
 DESIGN LOADS: PER BUILDING SUPPLIER

SCOPE OF WORK STATEMENT: DESIGN OF CONCRETE FOUNDATIONS ONLY. STEEL DESIGN INCLUDING STEEL ANCHORS BY OTHERS.

GENERAL NOTES:

- CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ABIDING TO ALL APPLICABLE BUILDING CODES, LOCAL CITY ORDINANCES, ZONING REQUIREMENTS, AND LICENSING/PERMIT REQUIREMENTS. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES INCLUDING WITHOUT LIMITATION TO DEMOLITION, EXCAVATION AND ERECTION PROCEDURES.
- THE CONTRACTOR SHALL EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE PROJECT ENGINEER & ARCHITECT OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS SHE/H HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
- NOTIFY THE PROJECT ENGINEER OF ANY DESIGN CHANGES PROPOSED BY OWNER OR THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION. SUCH CHANGES AFFECTING ROOM ADDITION DESIGN MAY ALSO AFFECT STRUCTURAL DESIGN.
- ANY SUBCONTRACTOR WHICH AGREES TO CONSTRUCT THE PROJECT PURSUANT TO THESE PLANS FULLY ASSUMES THE RISK OF ALL ERRORS AND OMISSIONS WHICH SHOULD HAVE BEEN DETECTED BY A CAREFUL REVIEW BY A KNOWLEDGEABLE LICENSED CONTRACTOR, THAT WHICH FOR ANY REASON WERE NOT RESOLVED DURING THE BIDDING OR NEGOTIATION PROCESS. FURTHER, THE CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AS THE WORK PROGRESSES IN ORDER TO IDENTIFY ANY SIGNIFICANT ERRORS AND OMISSIONS AND TO ASCERTAIN ALL NECESSARY INFORMATION BEFORE PROCEEDING WITH THE AFFECTED WORK, AND ASSUMES THE RISK OF ANY AND ALL LOSS, INCLUDING DELAY, WHICH MAY BE CAUSED OR CONTRIBUTED TO BY THE FAILURE TO ASCERTAIN CORRECT OR NECESSARY INFORMATION IN A TIMELY MANNER.
- ALL TRADES SHALL, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR WORK, AND AT THE COMPLETION OF THE WORK SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE JOBSITE AND ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS, AND SHALL LEAVE THE JOB ROOM CLEAN, INCLUDING REMOVING ALL LABELS, STICKERS, PAINT SMEARS, ETC., FROM LIGHTING FIXTURES, PLUMBING FIXTURES, GLASS SURFACES, FINISH HARDWARE, CABINETS, COUNTER TOPS, ETC.
- EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE NOTED OR SHOWN ON THE PLANS, WORKMANSHIP & MATERIALS SHALL CONFORM, TO THE LATEST EDITION OF THE IBC OR LOCAL CODE.
- THE PLANS SHALL BE REVIEWED FOR DIMENSIONAL & EXISTING SITE CONFORMANCE WITH THE PLANS BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE ARCHITECT & ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD IN CONFORMANCE WITH METAL BUILDING FRAMING DIMENSIONS, AND ALL QUESTIONS AS TO DIMENSIONS AND FIELD CONDITIONS SHALL BE RESOLVED BEFORE THE AFFECTED WORK PROCEEDS. NO DIMENSIONS SHALL BE OBTAINED BY SCALING THESE PLANS.
- CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS OF THE JOB.
- THE PRECISE DIMENSIONS AND LOCATIONS OF ALL DOOR, WINDOW AND ROOF OPENINGS SHALL BE DETERMINED FROM DRAWINGS AND OTHER FLOOR, WALL OPENING REQUIRED BY MECHANICAL OR ELECTRICAL SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA SHEETS, ETC. AS REQUIRED.
- ITEMS IDENTIFIED BY TRADE NAMES MAY BE SUBSTITUTED BY APPROVED EQUALS.
- NOTES & DETAILS ON DRAWINGS SHALL PRECEDE THESE GENERAL NOTES.

FOUNDATION NOTES

GENERAL

- SOIL BENEATH FOOTINGS AND SLABS SHALL BE COMPACTED TO RELATIVE COMPACTION MINIMUM.
- CONTINUOUS FOOTINGS AND GRADE BEAMS SHALL BE EXCAVATED TO THE DEPTH SHOWN ON THE DRAWINGS BELOW UNDISTURBED SOIL OR COMPACTED EARTH.
- SLAB ON GRADE: "THE SLABS SHOULD BE STRUCTURALLY DESIGNED OR THE WEAK AND EXPANSIVE SOILS SHOULD BE REMOVED AND REPLACED WITH AT LEAST 24 INCHES OF NON- EXPANSIVE ENGINEERED FILL".
- NO TRENCHES OR EXCAVATIONS FIVE FEET IN DEPTH OR GREATER INTO WHICH A PERSON SHALL BE REQUIRED TO DESCEND SHALL BE MADE WITHOUT PROPER PERMIT.
- THE ANCHOR BOLT DESIGN IS BY THE BUILDING SUPPLIER.
- PROVIDE 3/4" CAMBERS AT ALL EXPOSED CORNERS.

CONCRETE

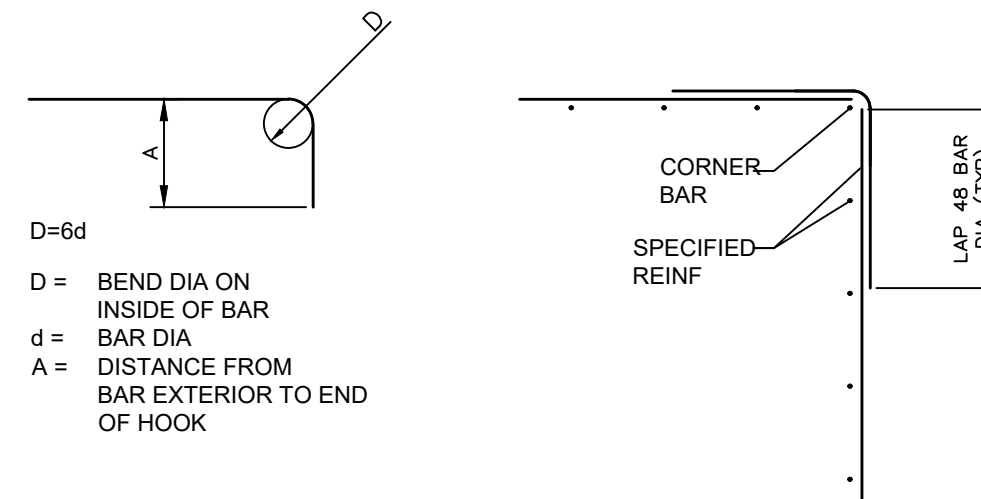
- UNLESS OTHERWISE NOTED ON PLANS, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
- FINE & COURSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33, USE 3000 P.S.I. CONC. @ GRADE BEAMS. CEMENT SHALL CONFORM TO A.S.T.M. C-150 (STANDARD BRAND PORTLAND CEMENT) TYPE II (USE TYPE V CEMENT IF NOTED IN SOILS REPORT)
- THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN TO STRUCTURAL ENGINEER FOR REVIEW.
- ADDING CALCIUM CHLORIDE TO CONCRETE OR GROUT IS NOT PERMITTED.
- CONC. SHALL BE KEPT MOIST FOR 10 DAYS FOR PROPER CURING.
- FLOOR FINISHES SHALL BE AS DEFINED IN ACI 302.1R.
- FOR END TO END UNIT DIMENSIONS, REFER TO BUILDING SUPPLIER'S DRAWINGS.

REINFORCING STEEL

- REINFORCING STEEL, #3 AND #4 GRADE 40, #5 AND LARGER GRADE 60 PER A.S.T.M. A615.
- LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
- BARS NOTED AS "CONT" TYPICAL WALL REINFORCING AND VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE OF 50 BAR DIAMETERS LAP IN MASONRY OR 40 BAR DIAMETERS MINIMUM IN CONCRETE.
- REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. OTHER SPLICES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4 FEET UNLESS OTHERWISE NOTED.
- PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPLICE UNLESS OTHERWISE NOTED.
- ALL REINFORCING, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACEMENT OF CONCRETE OR GROUTING OF MASONRY.
- THE CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWING TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PLACEMENT.
- PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE, PER ACI 318:

BELOW GRADE (UNFORMED)	3" CLEAR
BELOW GRADE (FORMED)	2" CLEAR
WALLS	1" CLEAR
COLUMNS	1.5" CLEAR
BEAMS AND GIRDERS	1.5" CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	1" CLEAR
- #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

BAR SIZE	A (IN)
#3	6
#4	8
#5	10
#6	12
#7	14
#8	16



SPECIAL INSPECTION (PER IBC SECTION 1704.1706 & 1707)

1. SPECIAL INSPECTION SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK. SEE PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

ITEMS REQUIRE SPECIAL INSPECTION AS MARKED:

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. WELDING:		
1a. STRUCTURAL STEEL OR REINFORCING		
2. CONCRETE WHERE CONCRETE STRENGTH OF 3000 PSI OR GREATER IS SPECIFIED.		<input checked="" type="checkbox"/>
3. COMPACTED FILL		<input checked="" type="checkbox"/>
4. FOUNDATION ANCHOR BOLT		<input checked="" type="checkbox"/>

*CONTRACTOR RESPONSIBILITY:

EACH CONTRACTOR OR SUB-CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE WIND AND/OR SEISMIC RESISTING SYSTEM THAT IS LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK REQUIRING SPECIAL INSPECTION.

- THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
- ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS;
 - ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL;
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, AND THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS;
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.*

STRUCTURAL OBSERVATION NOTES:

- ALL OBSERVATIONS SHALL BE PERFORMED BY THE ENGINEER OF RECORD (EOR) OR A DESIGNATED REGISTERED DESIGN PROFESSIONAL BY THE EOR.
- OWNER/CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE EOR'S DESIGNEE IN ADVANCE.
- STRUCTURAL OBSERVATIONS ARE FOR THE GENERAL CONFORMANCE OF THE DRAWINGS. SPECIAL INSPECTION IS STILL REQUIRED.

STRUCTURAL OBSERVATIONS

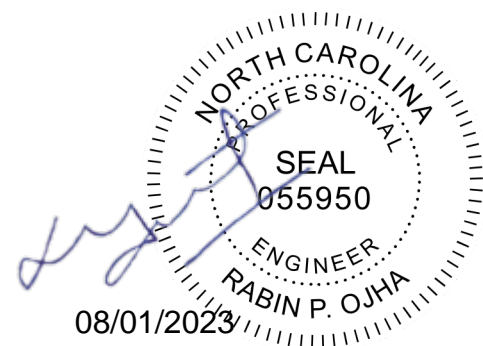
THE ENGINEER OF RECORD, OR ANOTHER ENGINEER DESIGNATED BY THE ENGINEER OF RECORD SHALL PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, AND CONTRACTOR. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE OWNER A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED. STRUCTURAL OBSERVATIONS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THE SPECIAL INSPECTIONS INDICATED ON THE STRUCTURAL DRAWINGS AND THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY THE CONTRACTOR. STRUCTURAL OBSERVATIONS WILL BE CONDUCTED AFTER THE ERECTION OF THE STEEL. THE 2015 IBC SECTION 1704.2.1 ALLOWS THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS SPECIAL INSPECTORS FOR THE WORK DESIGNED BY THEM, PROVIDED THEY QUALIFY AS SPECIAL INSPECTORS.

NO.	DATE	DESCRIPTIONS	REVISIONS
0	07/31/2023		

GENERAL NOTES

SITE ADDRESS:
 2659 Highway 87 S. Cameron,
 North Carolina 28326

PROFESSIONAL SEAL



121 EDINBURGH SOUTH DRIVE, SUITE 103
 CARY, NC 27511
 PHONE: 919.444.5442
 EMAIL: MOTI.KC@EQUAGEN.COM

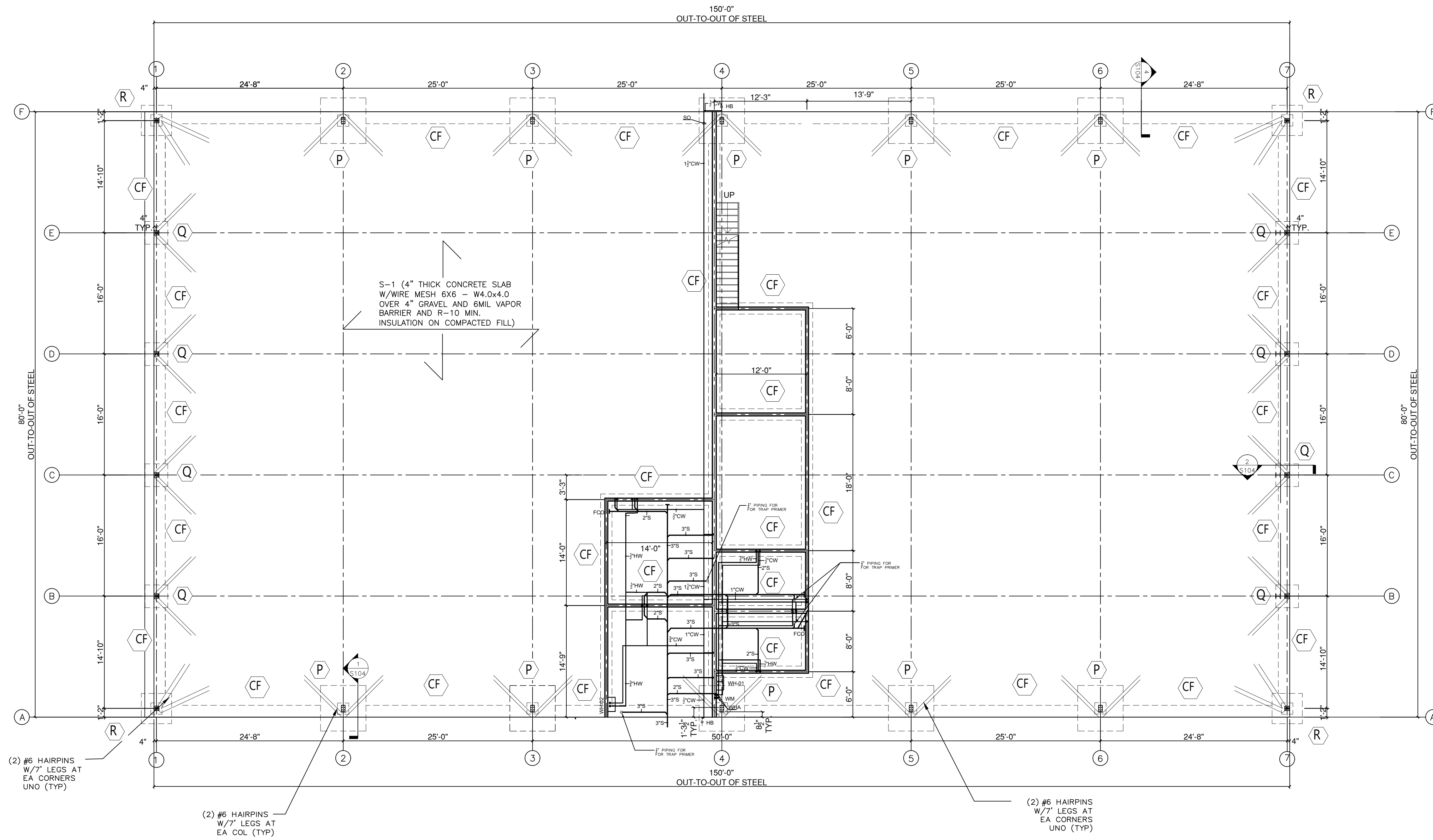
THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENT OF SERVICE ARE PROVIDED FOR THE OWNER OR THE BUILDER WHEN COMBINED WITH OTHER PLANS AND SPECIFICATIONS TO OBTAIN BUILDING PERMIT ONLY FOR THIS PROJECT. THEY ARE NOT INTENDED TO, NOR DO THEY, DETAIL ALL CONDITIONS. IDENTIFY ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT. THE BUILDER ASSUMES RESPONSIBILITY TO SELECT ALL MATERIAL AND ALL SUB-CONTRACTORS AND INSTALLERS AND TO PROVIDE ENOUGH INFORMATION ABOVE AND BEYOND THESE DRAWINGS, TO COMPLETE THE PROJECT IN CONFORMANCE WITH ALL GOVERNING AGENCIES.

STRUCTURAL DRAWING INDEX

S101	GENERAL NOTES
S102	FOUNDATION AND SLAB PLAN AND SCHEDULE
S103	SECOND FLOOR PLAN
S104	FOUNDATION SECTIONS & DETAILS

DRAWN BY:	SK
CHECKED BY:	MKC
DATE:	07/31/2023
SCALE:	AS SHOWN

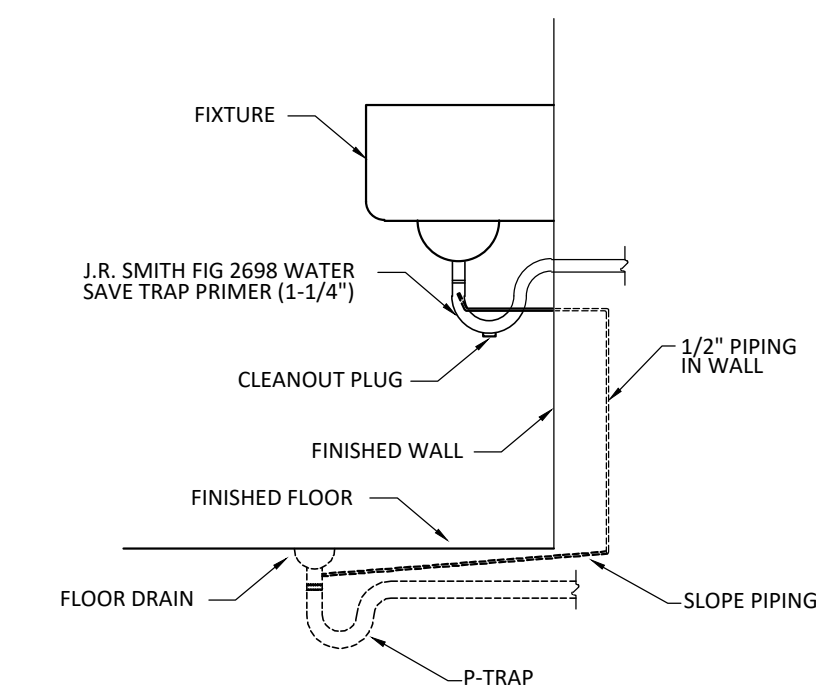
S101 22-4006



1 FOUNDATION & SLAB PLAN
SCALE: 1/8"=1'-0"

FOOTING SCHEDULE				
TYPE	LENGTH	WIDTH	DEPTH	REBAR
P	6'-0"	6'-0"	1'-6"	(8) #5 EW T&B (SEE S103 FOR PIER DET)
Q	3'-0"	3'-0"	2'-0"	(4) #5 EW T&B
R	4'-0"	4'-0"	1'-6"	(5) #5 EW T&B (SEE S103 FOR PIER DET)
CF	CONT.	1'-6"	1'-6"	(2) #5 BOT LONGITUDINAL, #5 @ 24" O.C. BOT TRANSV.

MAT SCHEDULE			
TYPE	THK.	REINFORCEMENT	OTHER
S-1	0'-4"	WIRE MESH 6X6 - W4.0x4.0	



2 TRAP PRIMER DETAIL
NOT TO SCALE

SUBMITTAL		REVISIONS	
NO.	DATE	NO.	DESCRIPTIONS
0	07/31/2023		

FOUNDATION AND SLAB PLAN AND SCHEDULE

SITE ADDRESS:
2659 Highway 87 S. Cameron,
North Carolina 28326

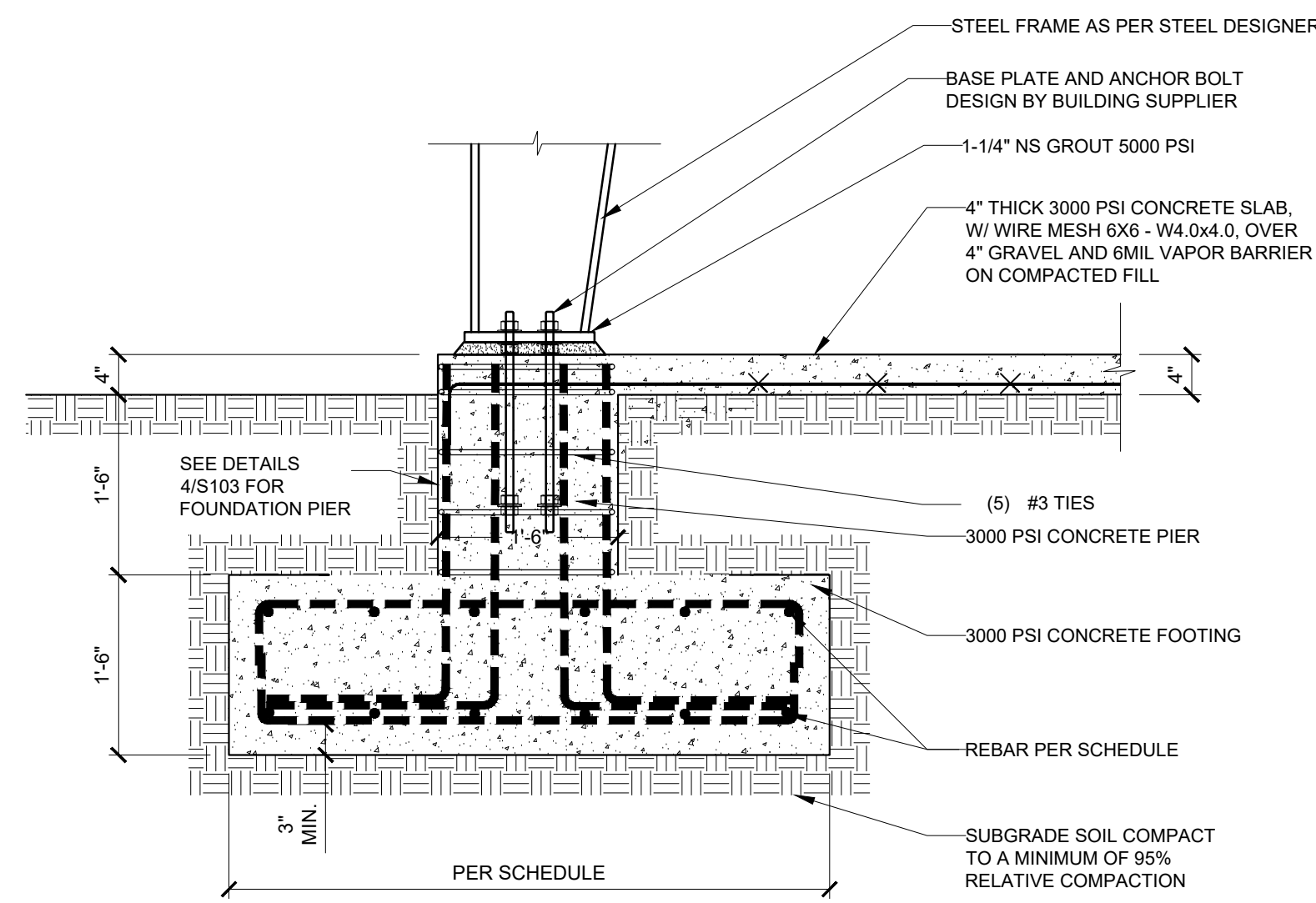


E.E.I. EQUAGEN
ENGINEERING & INSPECTIONS
FIRM LIC. # 1869

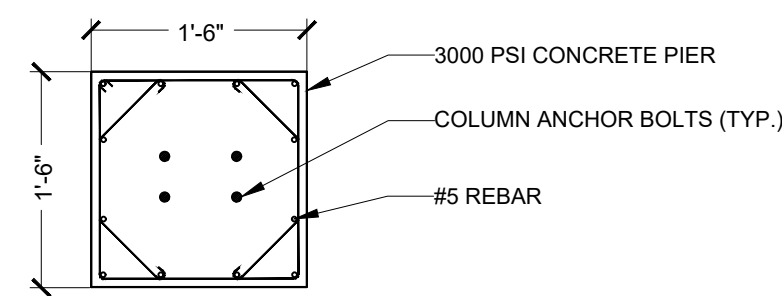
121 EDINBURGH SOUTH DRIVE, SUITE 103
CARY, NC 27511
PHONE: 919.444.5442
EMAIL: MOTI.KC@EQUAGEN.COM

DRAWN BY:	SK
CHECKED BY:	MKC
DATE:	07/31/2023
SCALE:	AS SHOWN

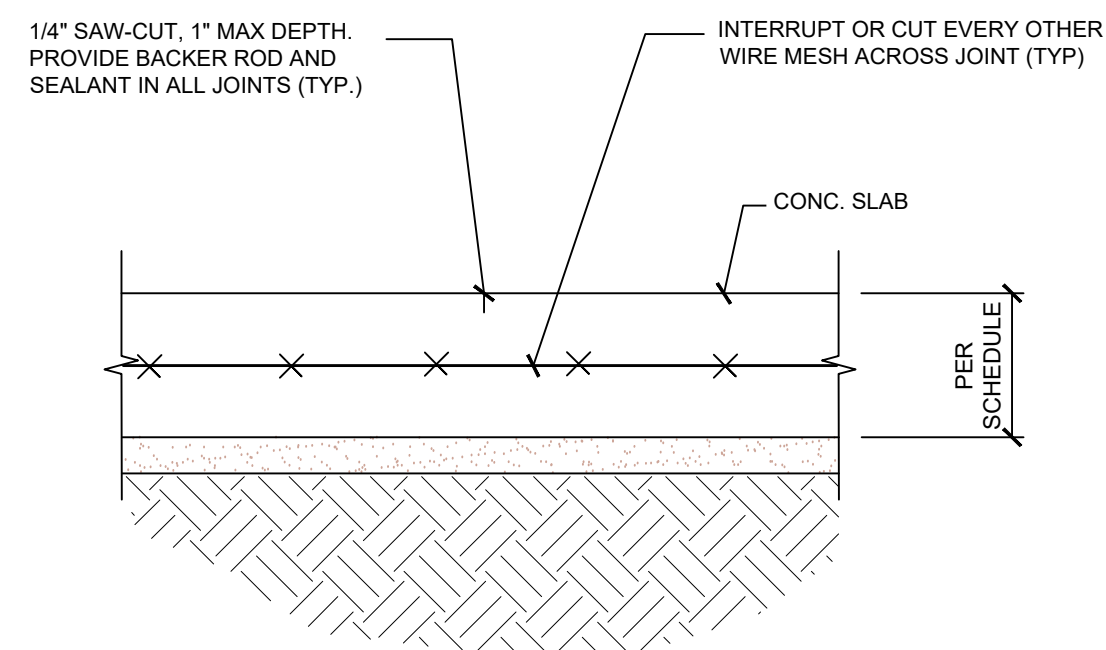
S102 **22-4006**



1 SPREAD FOUNDATION TYPE "P" & "R"
SCALE: 3/4"=1'-0"

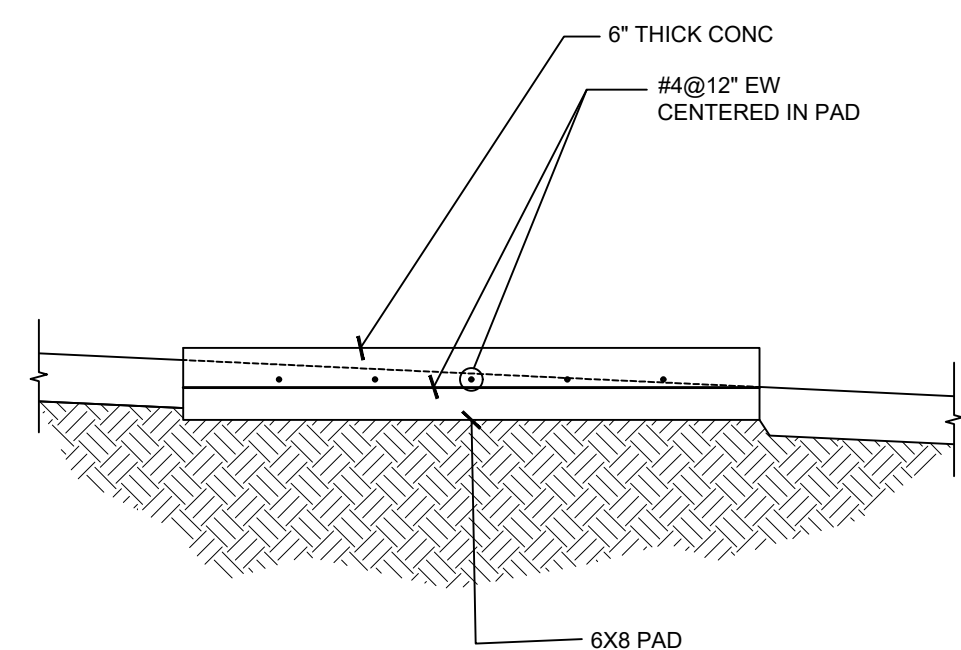


3 FOUNDATION TYPE "P" PIER DETAILS
SCALE: 3/4"=1'-0"

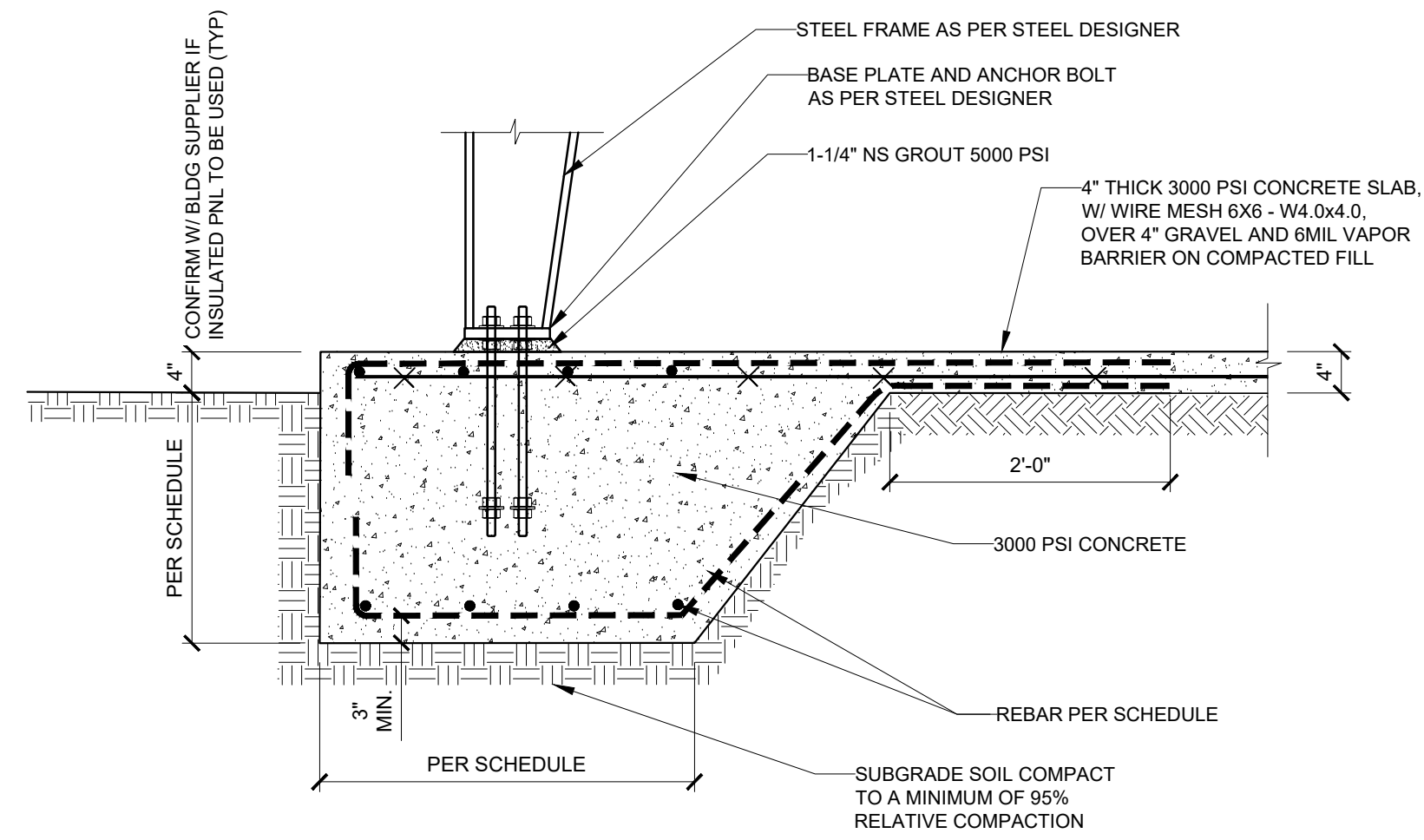


5 CJ DETAILS
SCALE: 3/4"=1'-0"

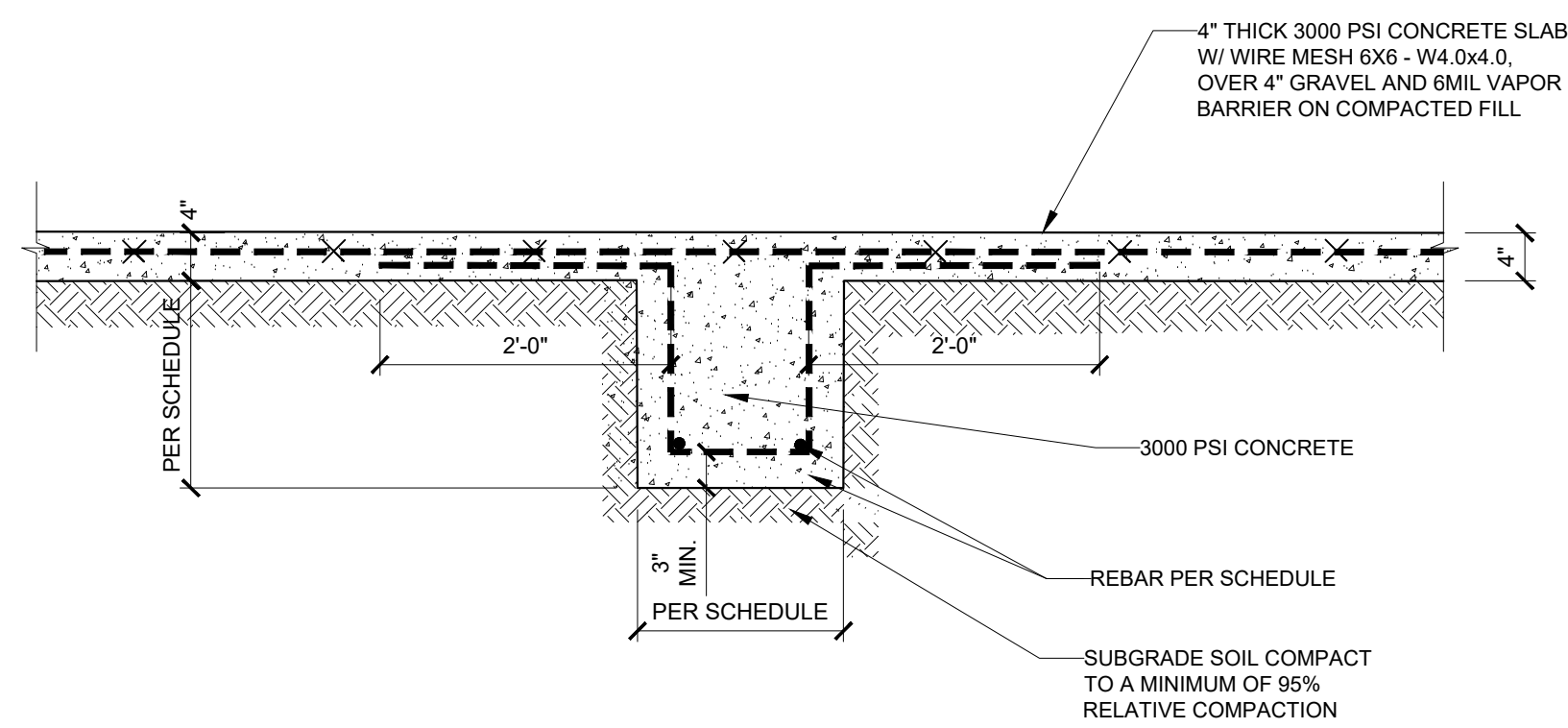
- NOTES:
- CONTRACTOR SHALL DEVELOP A CONTROL JOINT PLAN FOR REVIEW AND APPROVAL OF THE ENGINEER. CONTROL JOINTS SHALL BE SPACED APPROX 10' O.C. EA DIRECTION.
 - JOINTS SHALL BE CUT BETWEEN 6 TO 12 HRS OF CONCRETE PLACEMENT.
 - PROVIDE CLOSED CELL BACKER ROD AND MASTER SEAL NFI SEALANT TO ALL CONTROL JOINTS. FOLLOW MANUFACTURERS INSTRUCTIONS. ASPECT RATIO OF SEALANT SHALL BE 1:1.
 - JOINTS SHALL NOT BE PROVIDED IN MAT FOUNDATION.



6 HVAC PAD DETAILS
SCALE: 3/4"=1'-0"



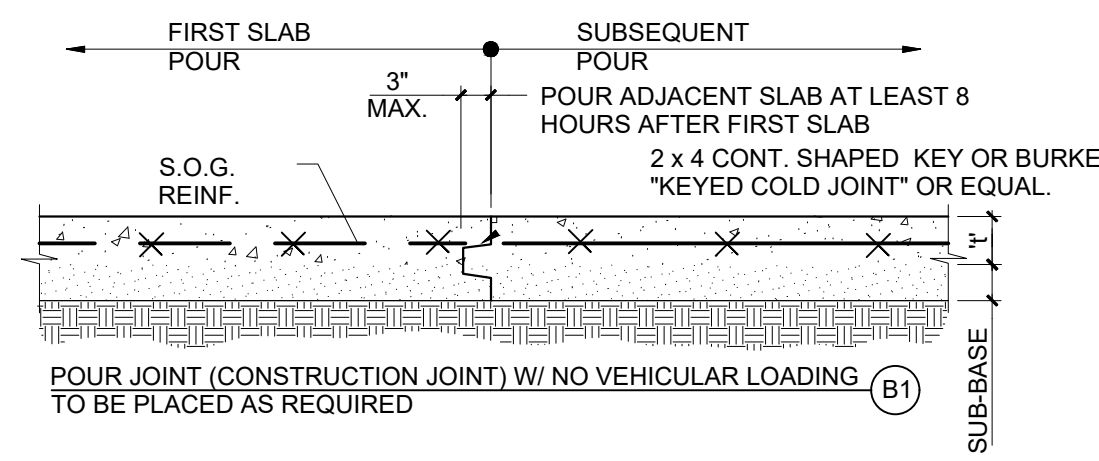
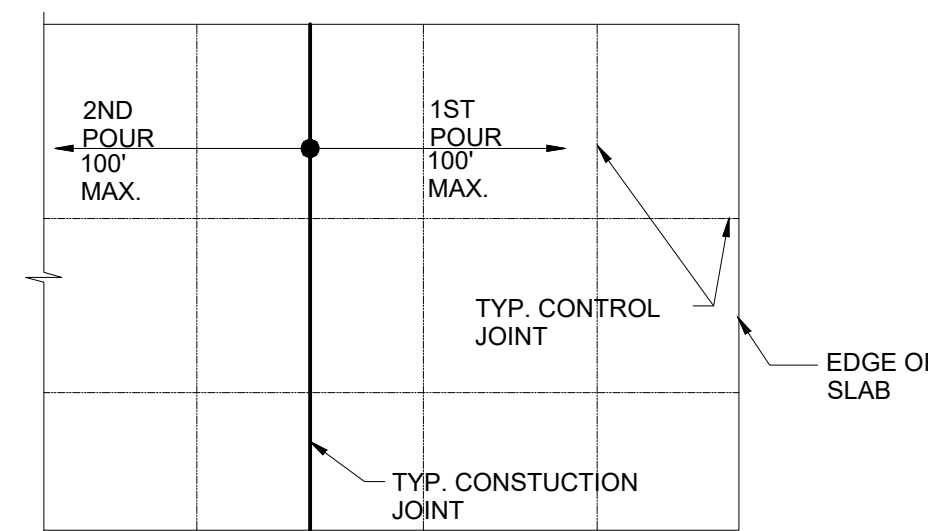
2 THICKENED EDGE FOUNDATION TYPE "Q"
SCALE: 3/4"=1'-0"



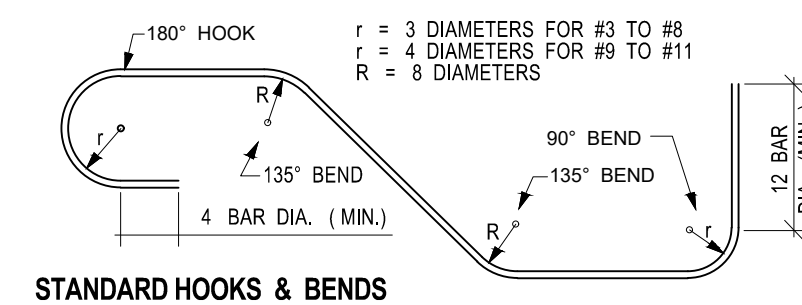
4 CONTINUOUS FOOTING "CF"
SCALE: 3/4"=1'-0"

NOTES:

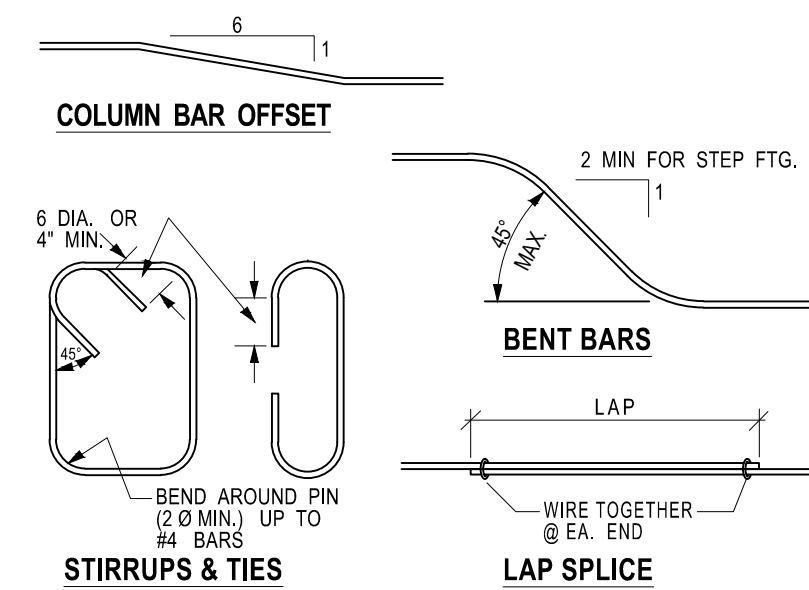
- SLAB JOINTS SHALL BE IN SQUARE OR RECTANGULAR (MAX. 1.5:1 RATIO) PATTERN WITH JOINT SPACING OF 10'-0" MAX. IN EITHER DIRECTION WITH EACH SQUARE OR RECTANGULAR AREA NOT TO EXCEED 100 SQ. FT.
- WAIT (7) DAYS PRIOR TO OPERATING VEHICLES AND EQUIPMENT ON SLABS. CRANE OUTRIGGERS LOAD SHALL BE WELL-PLANNED TO DISTRIBUTED EVENLY TO AVOID LOCALIZED CRACKING.
- DO NOT PLACE CONCRETE WHEN THE TEMPERATURE EXCEEDS 90° F OR FALLS BELOW 30° F OR WHEN THE WIND EXCEEDS 18 mph.
- WHERE CURING COMPOUND IS REQUIRED, APPLY IN TWO COATS IN OPPOSITE DIRECTIONS WITH AN EXTRA APPLICATION ON ALL SAW CUT JOINTS. CURING COMPOUND MUST BE PLACED WITHIN (2) HOURS OF CONCRETE PLACEMENT.
- WHEN WIND, TEMPERATURE AND HUMIDITY CONDITIONS CAUSE EARLY DISAPPEARANCE OF BLEED WATER, USE A FOG SPRAY. CURING SHALL COMMENCE IMMEDIATELY AFTER FINISHING.



TYP. SLAB ON GRADE JOINTS
NOT TO SCALE



TYPICAL REINFORCING DETAILS
SCALE: 3/4"=1'-0"



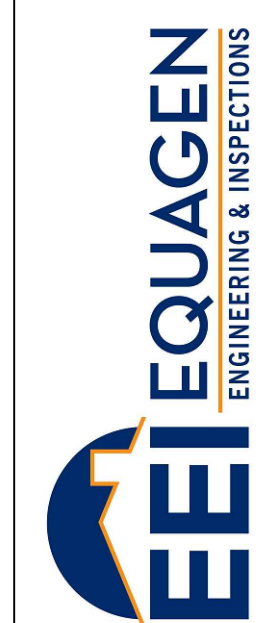
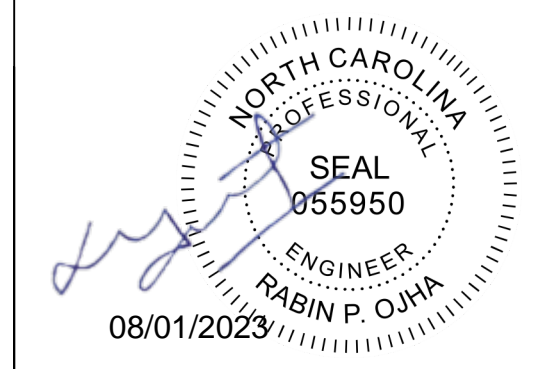
NO.	DATE	DESCRIPTIONS
0	07/31/2023	SUBMITTAL

REVISIONS

FOUNDATION SECTIONS AND DETAILS

SITE ADDRESS:
2659 Highway 87 S. Cameron,
North Carolina 28326

PROFESSIONAL SEAL



FIRM LIC. # 1869
121 EDINBURGH SOUTH DRIVE, SUITE 103
CARY, NC 27511
PHONE: 919.444.5442
EMAIL: MOTI.KC@EQUAGEN.COM

DRAWN BY:	SK
CHECKED BY:	MKC
DATE:	07/31/2023
SCALE:	AS SHOWN

S104 22-4006

WIRING DEVICE NOTES

WIRING DEVICES SHALL BE SPECIFICATION GRADE, IVORY WITH NYLON FACE AS FOLLOWS:

Table with columns for device types (20 AMP DUPLEX, GROUND FAULT RECEPTACLE, SINGLE RECEPTACLE, etc.) and manufacturer specifications (HUBBELL, P&S, ARROW HART).

COVER PLATES ON WALLS SHALL BE RIGID NON-METALLIC, SMOOTH FINISH, IVORY IN COLOR, AND SHALL BE STANDARD SIZE OVERSIZE PLATES ARE NOT ACCEPTABLE

ENGRAVED PLATES SHALL HAVE 3/16" LETTERS. PHOTOELECTRIC CONTROL: TORK #2101, FACING NORTH

FLOOR BOXES: HUBBELL B-2436,B-4233, B-4333;STEEL CITY 640 SERIES

GENERAL ELECTRICAL NOTES

- 1. INSTALL LIGHT CONTROL ON STRIKE SIDE OF DOOR (UNLESS OTHERWISE NOTED).
2. COMBINE NO MORE THAN 6 CURRENT CARRYING CONDUCTORS IN ANY SINGLE HOME RUN FROM A PANEL.
...
37. ALL OUTLETS PLATES ARE TO BE STAINLESS STEEL OR AS DETERMINED

- BY THE ARCHITECT.
38. ALL SWITCHES DIMMERS ARE TO BE TOGGLE TYPE. ALL OUTLETS ARE TO BE RECESSED.
...
45. FLUORESCENT LUMINARIES EQUIPPED WITH ONE, THREE OR ODD-NUMBERED LAMP CONFIGURATIONS...

GENERAL LIGHTING COORDINATION NOTES:

- 1. REFER TO SCHEDULES, LEGENDS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
2. REFER TO LIGHTING PLANS FOR LIGHT FIXTURE AND LIGHT SWITCH LOCATIONS.
...
37. IC-RATED RECESSED LIGHTING FIXTURES SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATE EQUAL OR LESS THAN 2.0 CFM LEAKAGE AT 75 PA.

37. ALL LIGHTING SHALL BE AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE, EXCEPT FOR RESTROOMS, WHICH SHALL BE SET TO A MAXIMUM OF 30 MINUTES FOR COMMERCIAL AREA.

GENERAL POWER COORDINATION NOTES

- 1. SEE ARCHITECTURAL DRAWING FOR LOCATION OF POWER AND COMMUNICATION OUTLETS.
2. REFER TO POWER AND COMMUNICATION LEGEND FOR ADDITIONAL INFORMATION.
...
12. PROVIDE TAMPER RESISTANCE RECEPTACLE AS PER NEC 2017 ART. 406.12(A) AND ART. 210.52.

ABBREVIATIONS table with columns for abbreviation and full name (D/W DISHWASHER, WM WASHING MACHINE, WP WEATHER PROTECTED, etc.).

Lighting equipment table with columns: SYMBOL, VOLTAGE, LAMP, MOUNTING, REMARKS. Includes entries for VACANCY SENSOR SWITCH, 1 WAY SWITCH, 2 WAY SWITCH, MOTION SENSOR WALL SWITCH, 3 WAY SWITCH, DUPLEX WALL OUTLET, SINGLE RECEPTACLE OUTLET, etc.

LIGHTING LEGENDS

SCALE: NTS

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS. ELECTRICAL DESIGN ELECTRICAL SUMMARY. Includes sections for ELECTRICAL SYSTEM AND EQUIPMENT, Lighting schedule, and Additional Efficiency Package Options.

EQUIPMENT LEGENDS

SCALE: NTS

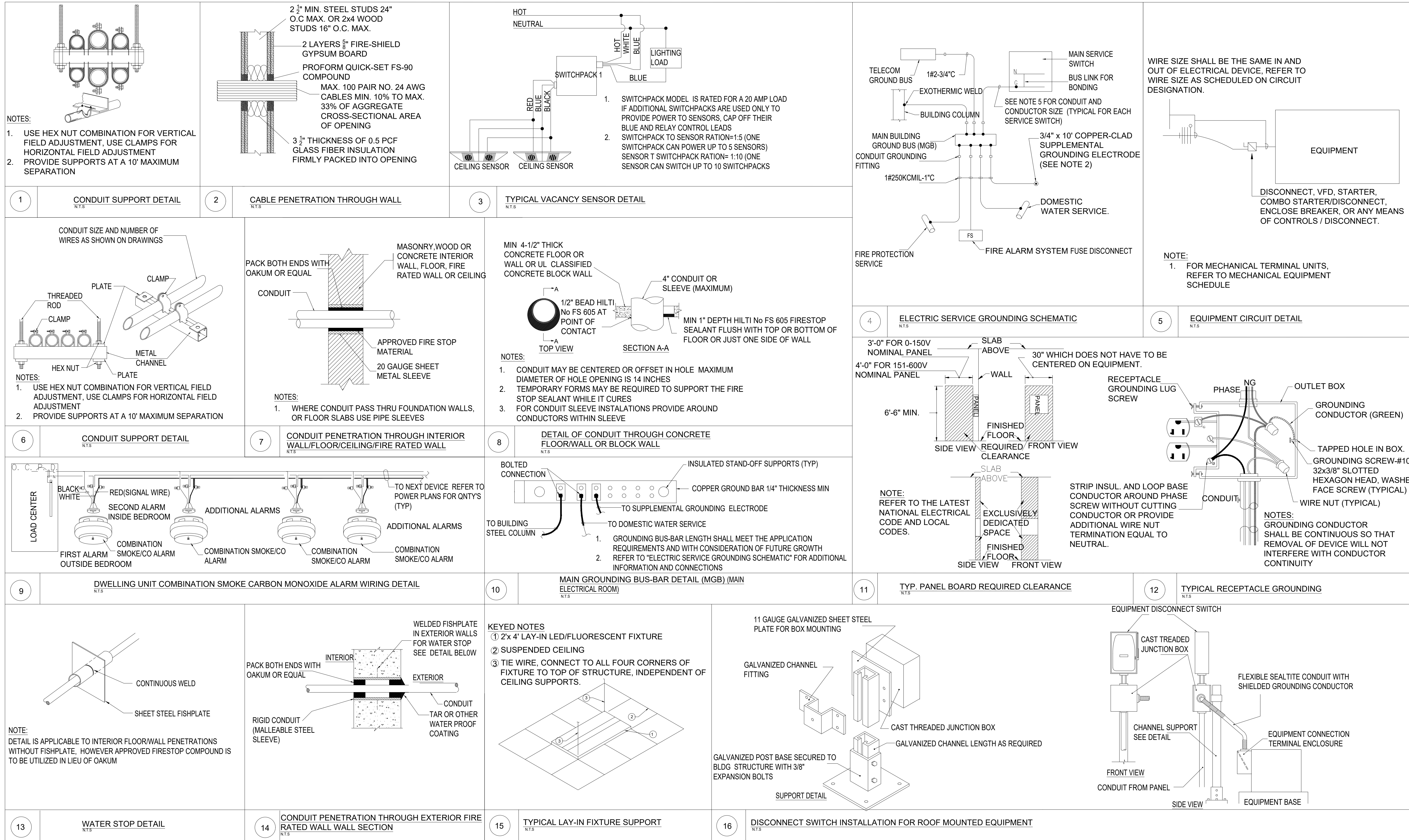
Vertical table with columns for NO. and DATE. Includes 'REVISIONS' header.

ELECTRICAL NOTES AND LEGENDS. SITE ADDRESS: 2659 HWY 87 S, CAMERON, NC 28326.



EEI EQUAGEN ENGINEERING & INSPECTIONS. FIRM LIC. # 1869. 8045 ARCO CORPORATE DR., RALEIGH, NC 27617. PHONE: 919.267.3004. EMAIL: INFO@EQUAGEN.COM.

Table with columns for DRAWN BY: SMB, CHECKED BY: MKC, DATE: 07/27/2023, SCALE: AS SHOWN, and E002 22-4006.



NOTE: ABOVE DETAILS ARE PROVIDED FOR REFERENCE AND USE AS APPLICABLE.

NO.	DATE	DESCRIPTIONS
0	05/02/2023	FOR REVIEW

REVISIONS

TYPICAL DETAILS

SITE ADDRESS:
 2659 HWY 87 S.
 CAMERON, NC 28326

PROFESSIONAL SEAL

RABIN P. OJHA
 ENGINEER
 SEAL 055950
 08/11/2023

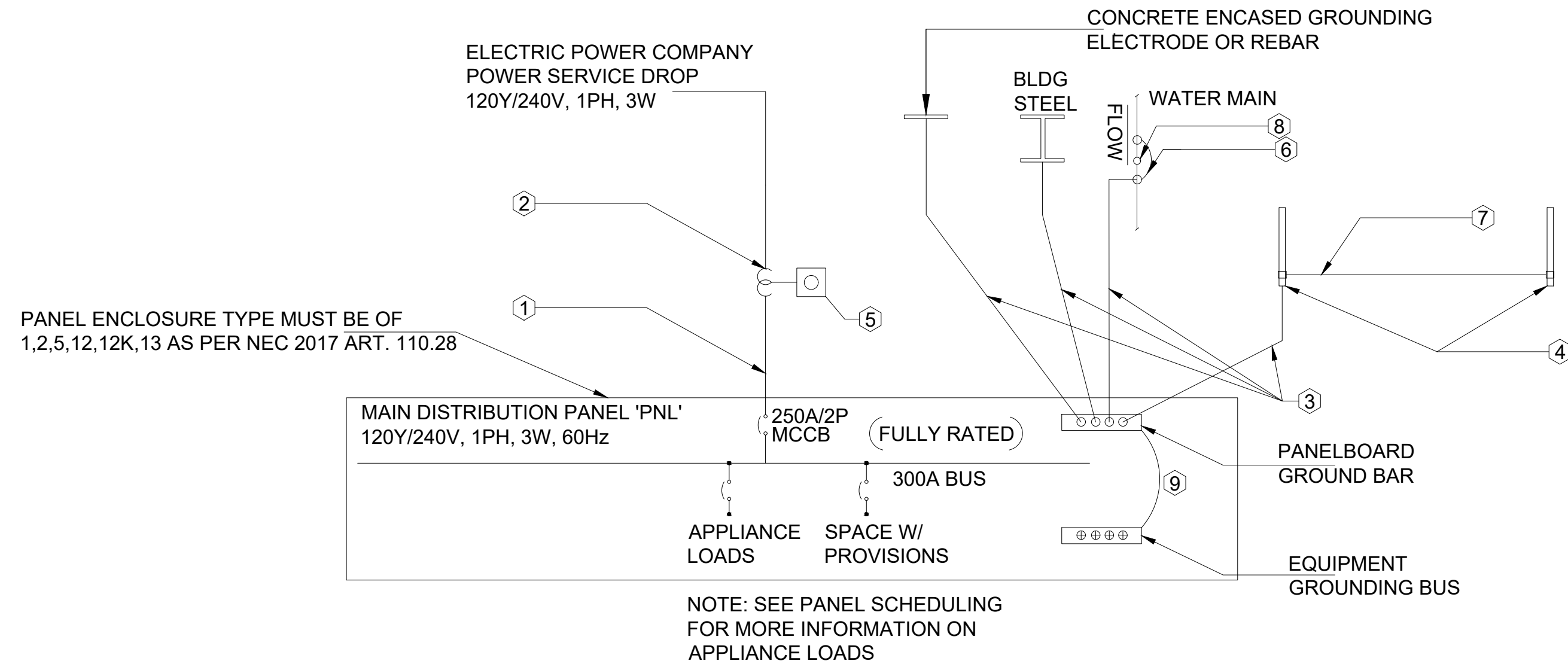
EQUAGEN
 ENGINEERING & INSPECTIONS

FIRM LIC. # 1869

8045 ARCO CORPORATE DR.,
 RALEIGH, NC 27617
 PHONE: 919.267.3004
 EMAIL: INFO@EQUAGEN.COM

DRAWN BY:	SMB
CHECKED BY:	MKC
DATE:	07/27/2023
SCALE:	AS SHOWN

E003 22-4006

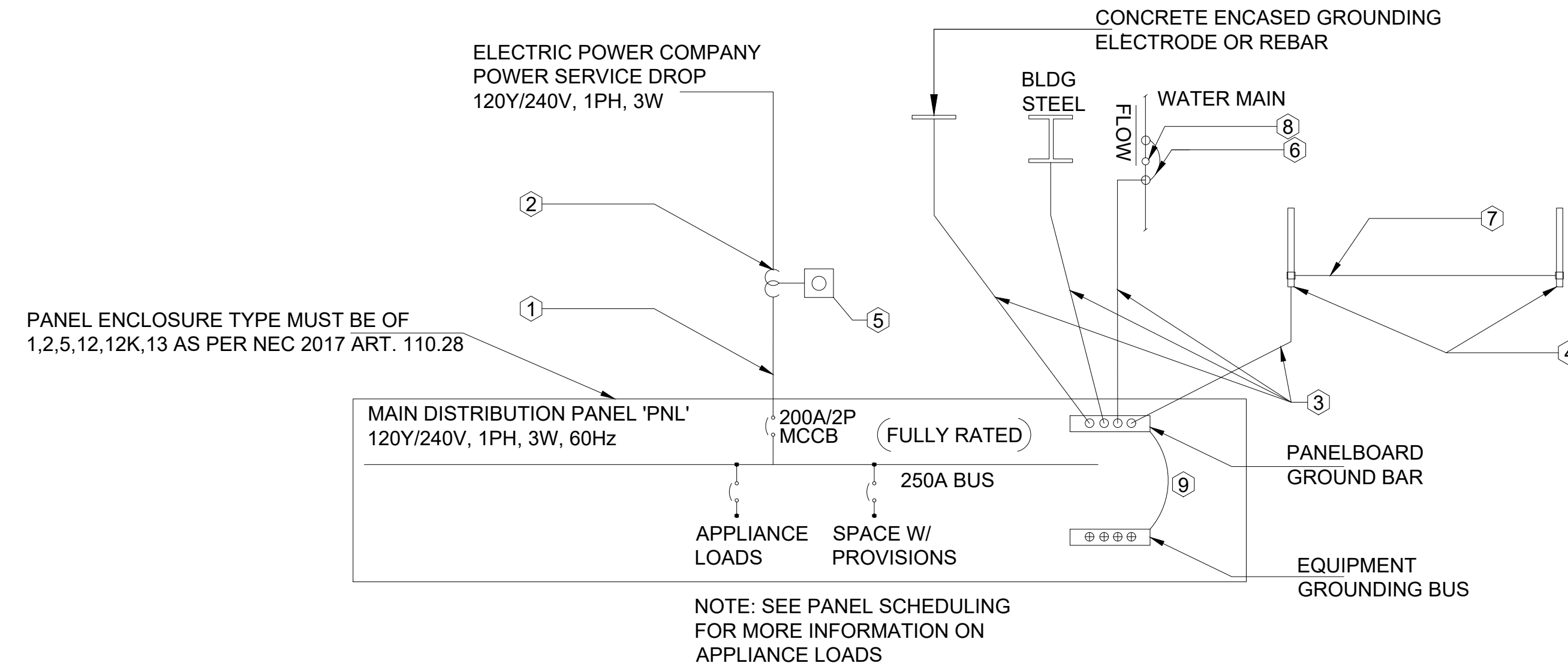


ELECTRICAL SLD - PANEL A

SCALE: NTS

KEY NOTES:

- ① (1) RUN 2#4/0, 1#4/0 (N) & 1#4 CU GROUND IN (1) 2 1/2" PVC-40 CONDUIT UNDERGROUND, AND (1) 2 1/2" RGS CONDUIT (WHERE EXPOSED). ALL CONDUCTORS TO HAVE TYPE (THHN/THWN-2) 90° C INSULATION
- ② ELECTRIC POWER COMPANY CURRENT TRANSFORMER(S)
- ③ #4 AWG (CU) GROUNDING ELECTRODE CONDUCTOR
- ④ GROUND RODS: 3/4" Ø x 10'-0" L COPPER CLAD STEEL w/ HIGH-STRENGTH STEEL CORE & ELECTROLYTIC-FRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE
- ⑤ ELECTRIC POWER COMPANY METER
- ⑥ #4 AWG JUMPER
- ⑦ #4 AWG GROUNDING ELECTRODE CONDUCTOR NO SPLICES FROM PANEL TO LAST ROD
- ⑧ WATER METER



ELECTRICAL SLD - PANEL B

SCALE: NTS

KEY NOTES:

- ① (1) RUN 2#3/0, 1#3/0 (N) & 1#6 CU GROUND IN (1) 2" PVC-40 CONDUIT UNDERGROUND, AND (1) 2" RGS CONDUIT (WHERE EXPOSED). ALL CONDUCTORS TO HAVE TYPE (THHN/THWN-2) 90° C INSULATION
- ② ELECTRIC POWER COMPANY CURRENT TRANSFORMER(S)
- ③ #6 AWG (CU) GROUNDING ELECTRODE CONDUCTOR
- ④ GROUND RODS: 3/4" Ø x 10'-0" L COPPER CLAD STEEL w/ HIGH-STRENGTH STEEL CORE & ELECTROLYTIC-FRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE
- ⑤ ELECTRIC POWER COMPANY METER
- ⑥ #6 AWG JUMPER
- ⑦ #6 AWG GROUNDING ELECTRODE CONDUCTOR NO SPLICES FROM PANEL TO LAST ROD
- ⑧ WATER METER

PANEL SCHEDULE "PANEL A"

LOAD DESCRIPTION	POLES /AMPS	Wire	LOAD, VA	250A PANEL				Wire	POLES /AMPS	LOAD DESCRIPTION
				1 PHASE 3 WIRE						
				CIRCUIT #	PHASE		CIRCUIT #			
LIGHTS	1/20	#12	2070	1	A	B	2	#12	1/20	OBSERVATION RECEPTACLE
GENERAL RECEPTACLE	1/20	#12	1440	3	2160		4	#12	1/20	STORAGE RECEPTACLE
EMERGENCY/EXIT LIGHTS	1/20	#12	400	5	1840		6	#12	1/20	OFFICE RECEPTACLE
GENERAL RECEPTACLE	1/20	#12	1260	7	2700		8	#12	1/20	OFFICE RECEPTACLE
WALL MOUNT AC-TYPE 1	1/20	#12	1000	9	6000		10	#8	1/35	WH-01
GENERAL RECEPTACLE	1/20	#12	1080	11	6080		12	#8	1/35	WH-01
WALL MOUNT AC-TYPE 2	1/20	#12	1500	13	3500		14	#10	1/25	ODU-1
OUTSIDE RECEPTACLE	1/20	#12	180	15	2180		16	#10	1/25	ODU-1
SMOKE DETECTOR	1/20	#12	800	17	1100		18	#12	1/20	AHU-1
LOBBY RECEPTACLE	1/20	#12	900	19	1200		20	#12	1/20	AHU-1
LIGHTS	1/20	#12	500	21	1100		22	#12	1/20	SHUTTER RECEPTACLE
LIGHTS	1/20	#12	300	23	900		24	#12	1/20	SHUTTER RECEPTACLE
SPACE				25	600		26	#12	1/20	SHUTTER RECEPTACLE
OUTSIDE RECEPTACLE	1/20	#12	180	27	1680		28	#10	1/25	ODU-3
OPEN OBSERVATION RECEPTACLE	1/20	#12	900	29	2400		30	#10	1/25	ODU-3
WALL MOUNT AC-TYPE 3	1/20	#12	750	31	3250		32	#12	1/25	DRYER
SPACE				33	2500		34	#12	1/25	DRYER
WALL MOUNT AC-TYPE 3	1/20	#12	750	35	1750		36	#12	1/20	WALL MOUNT AC-TYPE 1
SPACE				37	1000		38	#12	1/20	WALL MOUNT AC-TYPE 1
BATHROOM RECEPTACLE	1/20	#12	360	39	1360		40	#12	1/20	WALL MOUNT AC-TYPE 1
SPACE				41	0		42			SPACE
TOTALS					23010	23260				
PHASE	VA	46270		TOTAL LOAD(VA)		MOUNTED:		SURFACE		
A	23010	240	SUPPLY VOLTAGE		120/240		VOLTS:		120/240	
B	23260	1	SUPPLY PHASE		192.79		PHASEWIRE:		1/3	
TOTAL:	46270.00						MAIN SIZE:		250	
							MAIN TYPE:		MAIN BREAKER	

NOTES & REMARKS: 1. ALL HEATING, AIR CONDITIONING, AND REFRIGERATION UNITS SHALL HAVE 'HACR' RATED CIRCUIT BREAKER. PNL SHORT CIRCUIT RATING SHALL MATCH OR EXCEED AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY CO. 2.

PANEL SCHEDULE "PANEL B"

LOAD DESCRIPTION	POLES /AMPS	Wire	LOAD, VA	200A PANEL				Wire	POLES /AMPS	LOAD DESCRIPTION
				1 PHASE 3 WIRE						
				CIRCUIT #	PHASE		CIRCUIT #			
LIGHTS	1/20	#12	2320	1	A	B	2	#12	1/20	SPACE
SPACE				3	5000		4	#8	1/35	WH-02
SPACE				5	5000		6	#8	1/35	WH-02
GENERAL RECEPTACLE	1/20	#12	900	7	1900		8	#10	1/25	ODU-2
SPACE				9	1000		10	#10	1/25	ODU-2
GENERAL RECEPTACLE	1/20	#12	1080	11	1830		12	#12	1/20	WALL MOUNT AC-TYPE 1
GENERAL RECEPTACLE	1/20	#12	720	13	1470		14	#12	1/20	WALL MOUNT AC-TYPE 2
OUTSIDE RECEPTACLE	1/20	#12	180	15	180		16			SPACE
SMOKE DETECTOR	1/20	#12	500	17	500		18			"
GENERAL RECEPTACLE	1/20	#12	1260	19	1260		20			"
SPACE				21	0		22			"
EMERGENCY/EXIT LIGHTS	1/20	#12	150	23	0		24			"
SPACE				25	150		26			"
OUTSIDE RECEPTACLE	1/20	#12	180	27	0		28			"
SPACE				29	0		30			"
BATHROOM RECEPTACLE	1/20	#12	720	31	0		32			"
LIGHTS	1/20	#12	800	33	800		34			"
SPACE				35	0		36			"
"				37	0		38			"
SHUTTER RECEPTACLE	1/20	#12	600	39	0		40			"
SPACE				41	0		42			"
TOTALS					11090	11820				
PHASE	VA	22910		TOTAL LOAD(VA)		MOUNTED:		SURFACE		
A	11090	240	SUPPLY VOLTAGE		120/240		VOLTS:		120/240	
B	11820	1	SUPPLY PHASE		95.46		PHASEWIRE:		1/3	
TOTAL:	22910.00						MAIN SIZE:		200	
							MAIN TYPE:		MAIN BREAKER	

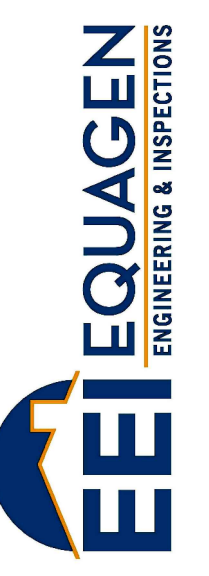
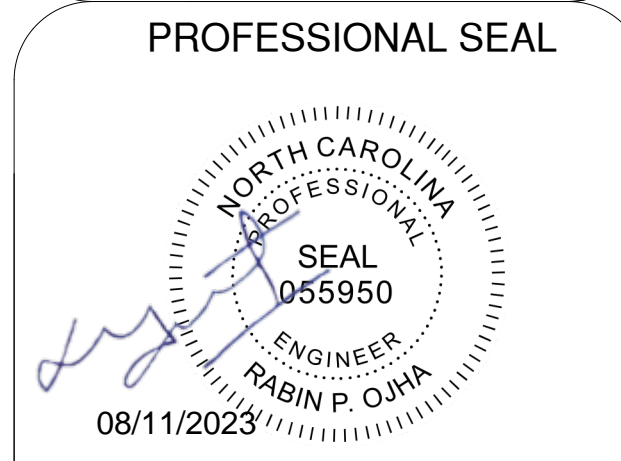
NOTES & REMARKS: 1. ALL HEATING, AIR CONDITIONING, AND REFRIGERATION UNITS SHALL HAVE 'HACR' RATED CIRCUIT BREAKER. 2. PNL SHORT CIRCUIT RATING SHALL MATCH OR EXCEED AVAILABLE SHORT CIRCUIT CURRENT FROM UTILITY CO.

NO.	DATE	DESCRIPTIONS
1	07/27/2023	COUNTY COMMENTS RESPONSE FOR REVIEW
0	05/02/2023	

REVISIONS

PANEL SCHEDULING, SLD AND LOAD CALCULATIONS

SITE ADDRESS:
2659 HWY 87 S.
CAMERON, NC 28326



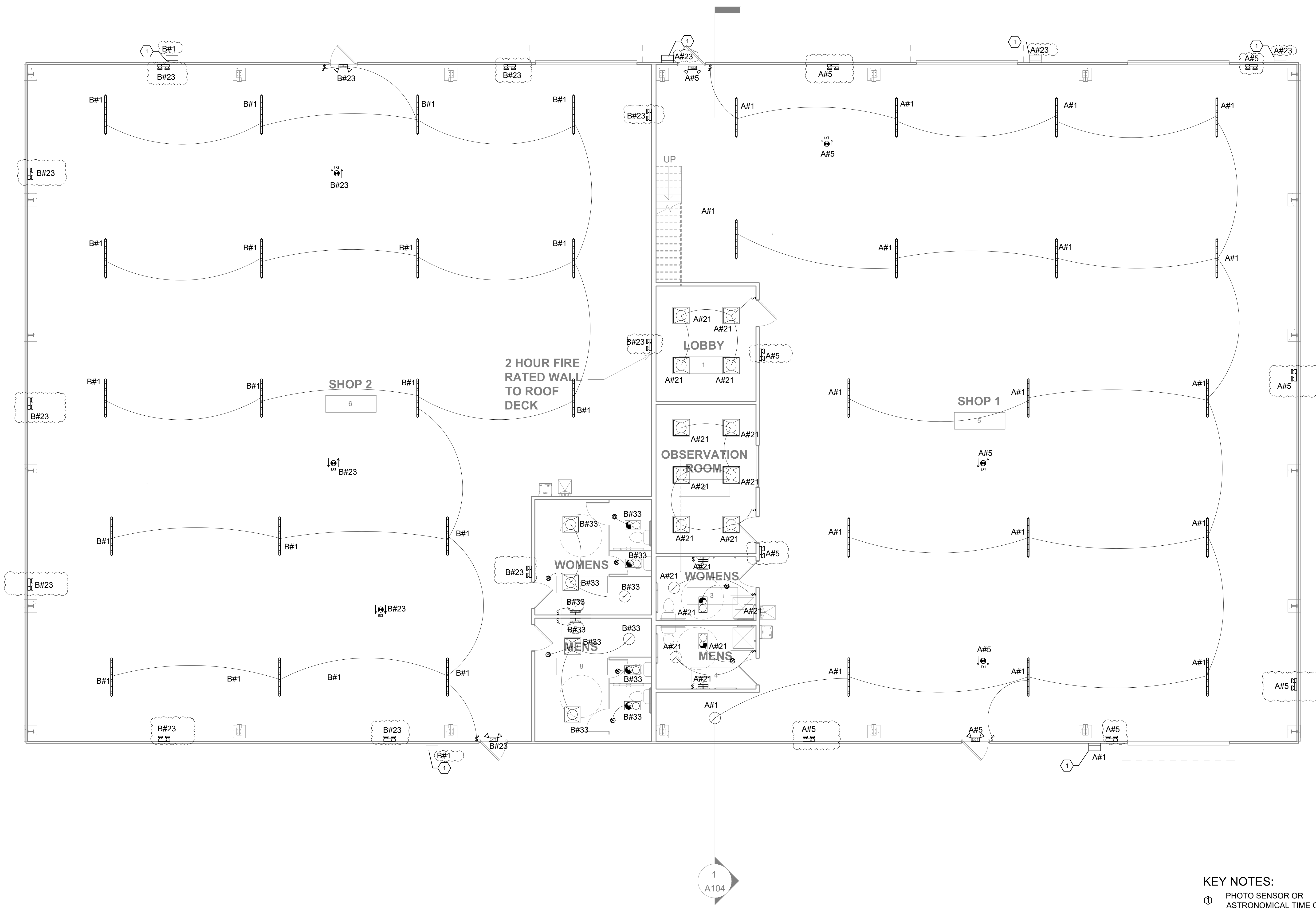
FIRM LIC. # 1869
8045 ARCO CORPORATE DR.,
RALEIGH, NC 27617
PHONE: 919.267.3004
EMAIL: INFO@EQUAGEN.COM

NOTES:

1. ALL PANELBOARDS SUPPLIED BY A FEEDER CONDUCTOR SHALL BE MARKED (LABELED) TO INDICATE WHERE THE POWER SUPPLY FOR THE PANELBOARD ORIGINATES FROM IN ACCORDANCE WITH THE NEC 2017 ART. 408.4(B).
2. POST AVAILABLE FAULT CURRENT RATINGS SHALL BE FIELD MARKED ON THE ELECTRICAL SERVICE EQUIPMENT IN THE FIELD PER NEC 2017 ART 110.24(A).

DRAWN BY:	SMB
CHECKED BY:	MKC
DATE:	07/27/2023
SCALE:	AS SHOWN

E004 22-4006



01 | FIRST FLOOR LIGHTING PLAN
SCALE 3/16" = 1'-0"

KEY NOTES:
① PHOTO SENSOR OR ASTRONOMICAL TIME CLOCK

REVISIONS	
NO.	DATE
1	07/27/2023
0	05/02/2023

LIGHTING PLAN

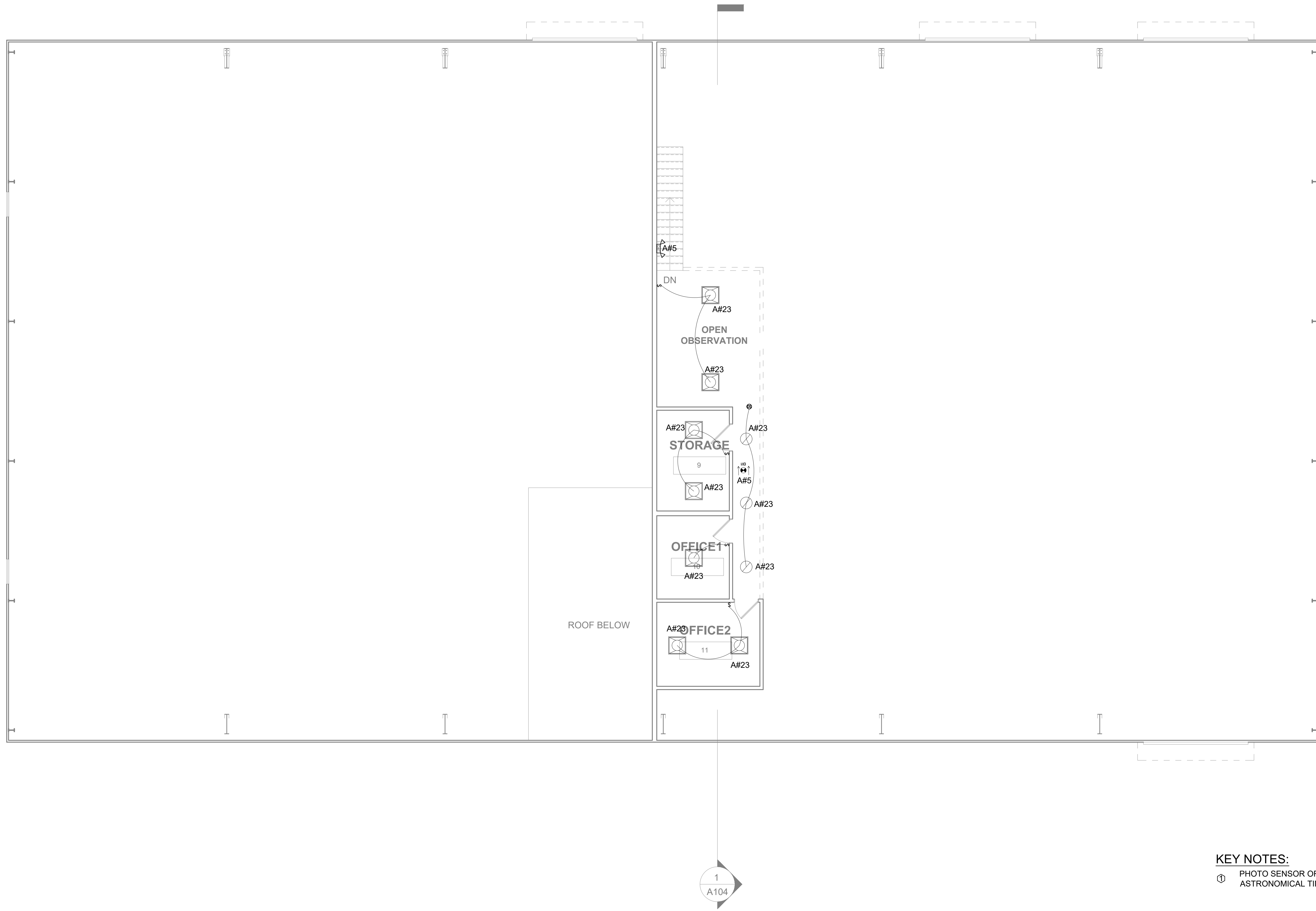
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SCALE:	AS SHOWN
E101	22-4006



02 SECOND FLOOR LIGHTING PLAN
SCALE 3/16" = 1'-0"

KEY NOTES:
① PHOTO SENSOR OR ASTRONOMICAL TIME CLOCK

NO.	DATE	DESCRIPTIONS
0	05/02/2023	FOR REVIEW

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LIGHTING PLAN

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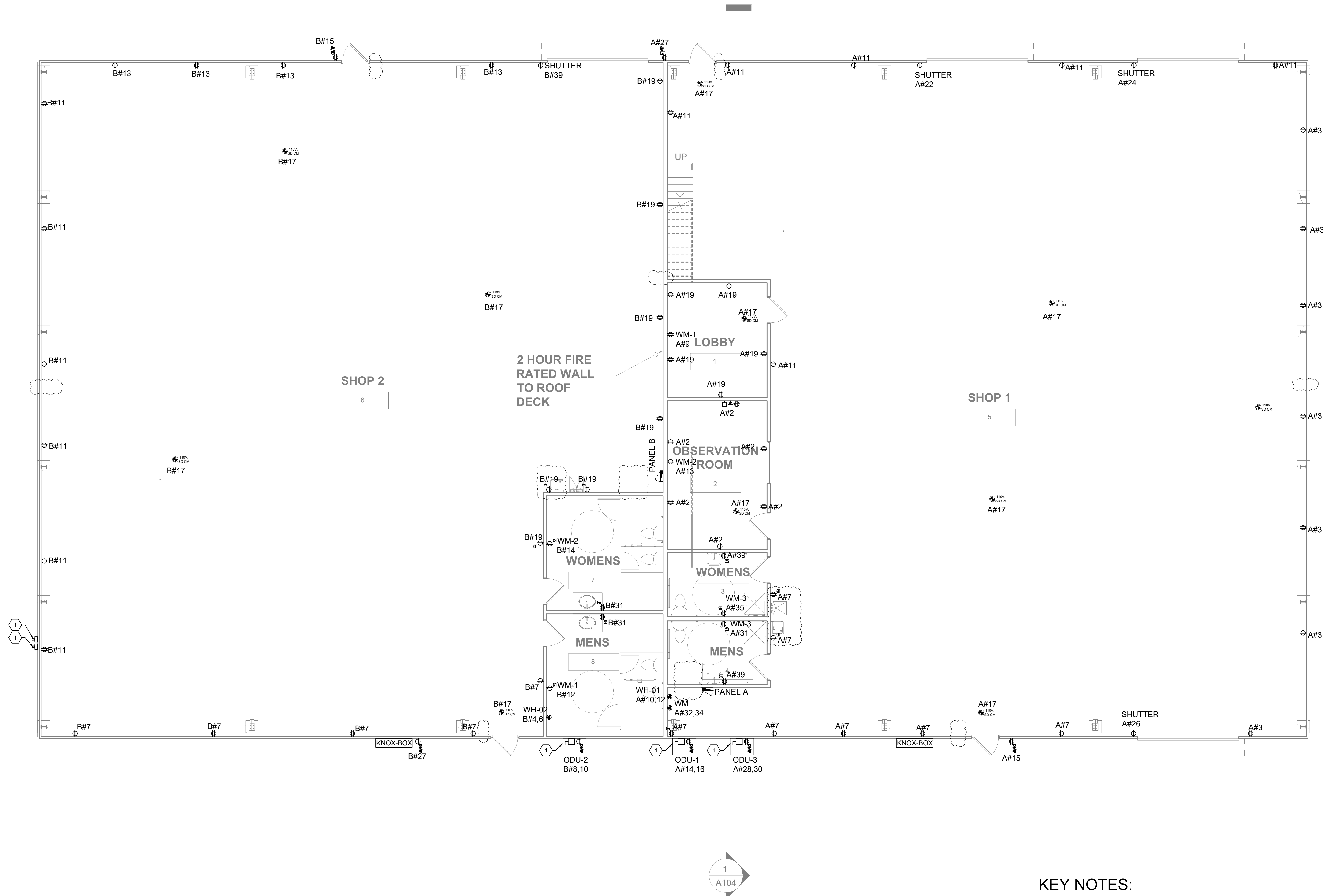
PROFESSIONAL SEAL

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E102 22-4006



01 FIRST FLOOR POWER PLAN
SCALE 3/16" = 1'-0"

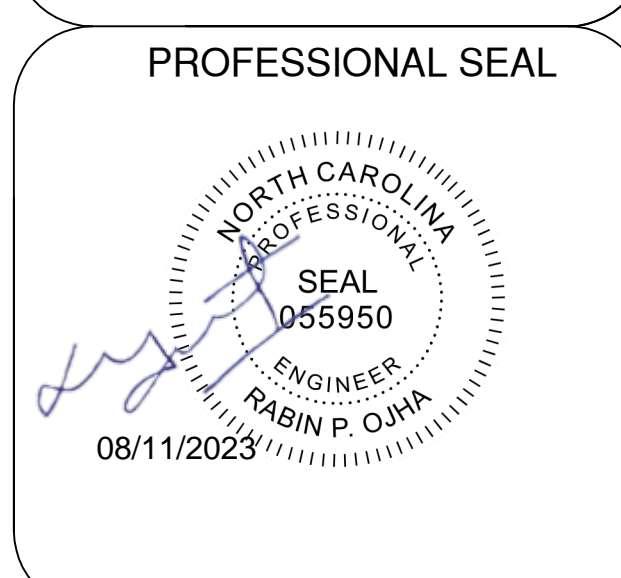
KEY NOTES:

- ① WEATHER PROTECTED APPLIANCES
- ② WEATHER PROTECTED COMBO DISCONNECTING SWITCH WITH RECEPTACLE

REVISIONS	
NO.	DATE
1	07/27/2023
0	05/02/2023
	DESCRIPTIONS
	COUNTY COMMENTS RESPONSE FOR REVIEW

POWER PLAN

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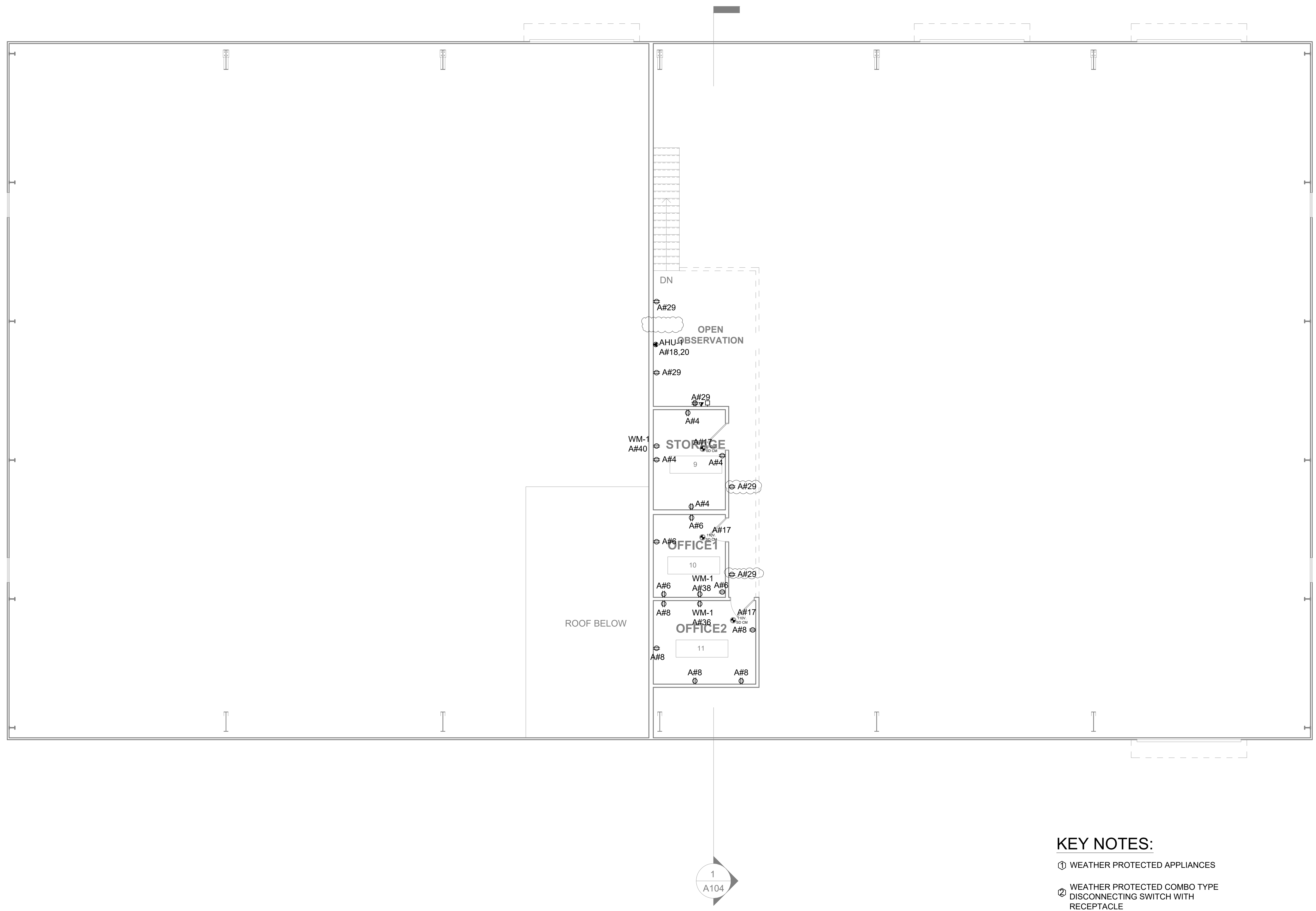


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02 SECOND FLOOR POWER PLAN
 SCALE 3/16" = 1'-0"

KEY NOTES:

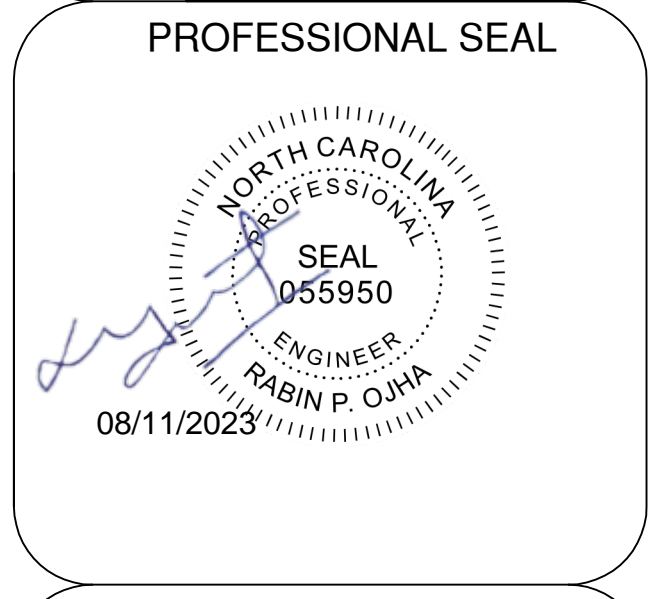
- ① WEATHER PROTECTED APPLIANCES
- ② WEATHER PROTECTED COMBO TYPE DISCONNECTING SWITCH WITH RECEPTACLE

NO.	DATE	DESCRIPTIONS
1	07/27/2023	COUNTY COMMENTS RESPONSE
0	05/02/2023	FOR REVIEW

REVISIONS

POWER PLAN

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GENERAL NOTES :

- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING BUILDING SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS.
- ALL MECHANICAL AND PLUMBING WORK SHALL COMPLY WITH IMC 2015 , IPC 2015 AND IRC 2015 PER 2017 DC BUILDING CODE.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO SHOW EQUIPMENT AND SYSTEMS AS ACCURATELY AS THE SCALE WILL PERMIT. ALL CRITICAL LOCATIONS AND DIMENSIONS SHALL BE DETERMINED IN THE FIELD.
- THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, STANDARDS, ORDINANCES, RULES AND REGULATIONS OF ALL LOCAL AND STATE GOVERNMENTAL AUTHORITIES, THE RULES OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE NATIONAL ELECTRICAL CODE (NEC), THE AMERICANS WITH DISABILITIES ACT, ASHRAE AS INTERPRETED BY THE GOVERNMENTAL AUTHORITY AND PUBLIC UTILITIES HAVING JURISDICTION OVER ANY OF THE SYSTEMS HEREIN SPECIFIED. DEFINITIONS: "PROVIDE" - FURNISH AND INSTALL "FURNISH" - SUPPLY AND DELIVER TO PROJECT SITE "INSTALL" -ERECT IN PLACE "CONCEALED" - HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS "EXPOSED" - VISIBLE TO VIEW "INDICATED" - SHOWN IN CONTRACT DRAWINGS
- WHERE SITE CONDITIONS REQUIRE MINOR DEVIATIONS FROM THE CONTRACT DOCUMENTS, MAKE SUCH DEVIATIONS WITHOUT COST TO THE CONTRACT. MAJOR DEVIATIONS SHALL NOT BE MADE WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM THE OWNER.
- COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, PLUMBING, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS IN PIPING, DUCTWORK, CIRCUITRY AND OTHER ITEMS REQUIRED TO INSTALL THE WORK WITHOUT INTERFERENCES.
- THE CONTRACTOR SHALL COORDINATE SPRINKLER PIPING AS REQUIRED FOR THE INSTALLATION OF THE MECHANICAL AND ELECTRICAL SYSTEMS, WHILE MAINTAINING THE ARCHITECTURAL INTENT. ALL FIRE PROTECTION WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INTERNATIONAL FIRE CODE (IFC), THE INTERNATIONAL BUILDING CODE (IBC).
- THE CONTRACTOR SHALL KEEP A RECORD OF ALL CHANGES TO THE DRAWINGS AND SHALL SUBMIT AS BUILT DRAWINGS TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THE QUIET OPERATION OF ANY NEW SYSTEM UPON COMPLETION OF INSTALLATION. THE TRANSMISSION OF VIBRATION OR SOUND TO THE STRUCTURE OR OCCUPIED SPACES SHALL NOT BE PERMITTED.
- ALL EQUIPMENT SHALL BE NEW (UNLESS INDICATED OTHERWISE) AND THE CURRENT MODEL FOR WHICH REPLACEMENT PARTS ARE AVAILABLE. SUBSTITUTIONS SHALL ONLY BE ALLOWED AT THE DISCRETION OF THE OWNER.
- ALL EQUIPMENT SHALL BE SUITABLE FOR THE PURPOSE INTENDED. ALL MANUFACTURERS SHALL HAVE SIMILAR PRODUCTS IN SERVICE FOR A MINIMUM OF 5 YEARS. ALL NEW EQUIPMENT SHALL BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. THIS SHALL INCLUDE PROVIDING CLEARANCES AS DEFINED IN THE INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH NEC REQUIREMENTS. NEW EQUIPMENT SHALL ALSO BE COORDINATED AROUND SPRINKLER AND FIRE ALARM SYSTEMS. MODIFY SYSTEMS AS NECESSARY. PROVIDE ALL REQUIRED AUXILIARY ITEMS REQUIRED TO PERFORM FUNCTION INTENDED.
- THE CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL EXISTING ITEMS AND EQUIPMENT INDICATED TO BE REUSED. THE CONTRACTOR SHALL REPORT ANY DEFICIENCIES TO THE OWNER DURING THE CONSTRUCTION PHASE OF THE PROJECT. THOROUGHLY CLEAN ALL ITEMS AND EQUIPMENT INDICATED TO BE REUSED. REPLACE ALL FILTERS WITH SIZE AND TYPE TO MATCH EXISTING.
- PROVIDE ALL SUPPORT STEEL, HANGERS, VIBRATION ISOLATIONS AND ACCESSORIES NECESSARY FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. DO NOT SUPPORT ANY CEILING OR OTHER BUILDING STRUCTURE FROM PIPING OR CONDUITS. DO NOT ALLOW PIPING OR CONDUITS TO COME INTO DIRECT CONTACT WITH BUILDING WALLS OR FLOORS. COORDINATE INSTALLATION AMONG ALL TRADES. PROVIDE ALL NECESSARY TRANSITIONS AND OFFSETS TO INSURE COMPLETE COORDINATED INSTALLATION.
- PROVIDE APPROVED AIR FILTERS AS PER SECTION 605 DC MECHANICAL CODE. MEDIA-TYPE AND ELECTROSTATIC-TYPE AIR FILTERS SHALL BE LISTED AND LABELED. MEDIA-TYPE AIR FILTERS SHALL COMPLY WITH UL 900. HIGH EFFICIENCY PARTICULATE AIR FILTERS SHALL COMPLY WITH UL 586. ELECTROSTATIC-TYPE AIR FILTERS SHALL COMPLY WITH UL 867. AIR FILTERS UTILIZED WITHIN DWELLING UNITS SHALL BE DESIGNED FOR THE INTENDED APPLICATION AND SHALL NOT BE REQUIRED TO BE LISTED AND LABELED.

GENERAL NOTES CONTINUED:

- PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND CONDUIT. REPAIR ALL WALLS, CEILINGS AND FLOORS, PENETRATED. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES THAT MATCH EXISTING CONSTRUCTION. ALL PENETRATIONS IN FIRE WALLS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIREWALL INTEGRITY. CORE DRILLING AND OTHER SLAB PENETRATIONS ARE NOT PERMITTED UNLESS SPECIFICALLY NOTED ON PLANS. RESTORE, PATCH AND PAINT ALL DAMAGED BUILDING COMPONENTS TO RESTORE TO SIMILAR OR BETTER CONDITION.
- THE CONTRACTOR SHALL TEST ALL EQUIPMENT PROVIDED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATION. SPRINKLER SYSTEM PLAN IS SHOWN AS SCHEMATIC. IT IS CONTRACTOR'S RESPONSIBILITY TO COORDINATE IT WITH FIRE MARSHALL AND DESIGN PROPER SPRINKLER SYSTEM.
- ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.
- PRODUCTS CONTAINING ASBESTOS OR PCB'S ARE NOT PERMITTED FOR USE ON THIS PROJECT.
- ALL NEW DUCTWORK SHALL BE GALVANIZED STEEL G90, 2 IN. W.G. UNLESS NOTED OTHERWISE
- EVALUATING EXISTING ROOF SYSTEM STRUCTURALLY DUE TO HVAC EQUIPMENT ADDITION IS OUT OF ENGINEER'S RESPONSIBILITY.
- ADD A NOTE IN MECHANICAL GENERAL NOTES SHEET " ALL APPLIANCES IN THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2012 MECHANICAL CODE, SECTION 306.5"

COMMISSIONING OF GENERAL NOTES

- ALL DUCTWORK AND CEILING PENETRATIONS SHALL BE COORDINATED WITH EXISTING STRUCTURAL JOISTS AND BEAMS. PROVIDE OFFSETS IN PIPES AND DUCTS TO AVOID CUTTING OF BEAMS AND JOISTS.
- CONTRACTOR SHALL SUBMIT DUCTWORK SHOP DRAWING TO ENGINEER FOR APPROVAL INCLUDING DUCTWORK SIZE.
- ALL DUCTWORK AND FITTINGS SHALL BE CONSTRUCTED TO THE LATEST "SMACNA" STANDARDS. THE DUCT SIZES INDICATED ON THE DRAWINGS ARE IN INCHES AND REPRESENT THE FREE, NET INSIDE DIMENSIONS OF THE DUCT.
- ALL FLEXIBLE DUCT BRANCH LINES AND BRANCH TAKEOFFS SHALL BE THE SAME SIZE AS THE INLET OF THE DIFFUSER TO WHICH THEY CONNECT. THE MAXIMUM LENGTH OF FLEXIBLE DUCT BETWEEN BRANCH DUCTS AND DIFFUSERS IS FIVE FEET. FLEXIBLE DUCTWORK SHALL BE RUN WITH SMOOTH BENDS SO AS TO NOT RESTRICT AIR FLOW.
- PROVIDE INSULATION FOR SUPPLY, AND RETURN, EXHAUST, DUCTS LOCATED IN CEILING PLENUMS AND OTHER CONCEALED, NON-CONDITIONED SPACES. THE INSULATION SHALL BE 1 1/2" THICK GLASS FIBER WITH FOIL VAPOR BARRIER.
- PROVIDE 3M FIRE BARRIER CP 25WB CAULK AROUND ALL PIPE, ENVIRONMENTAL AIR AND DUCT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR SLABS.
- INTAKE AND EXHAUST CONNECTIONS SHALL BE A MINIMUM 10 FEET APART.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL HAVE ALL AIR SYSTEMS BALANCED TO INDICATED FLOW RATES BY A CERTIFIED "AABC" BALANCING CONTRACTOR.

DUCT LEAKAGE TEST

- CONTRACTOR SHALL PERFORM THE PRESSURE TEST FOR DUCT TO DETERMINE AIR LEAKAGE BY THE METHODS INDICATED IN R403.3.3 IECC 2015 AND A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL.
- THE TOTAL DUCT LEAKAGE SHALL BE < 4 CFM/100FT² WITH AIR HALDLER INSTALLED, PER 2015 IECC R403.3.4. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL.

DURING TESTING

- EXTERIOR WINDOWS AND DOORS, FIREPLACE AND STDVE DOORS SHALL BE CLOSED, BUT NOT SEALED, BEYOND THE INTENDED WEATHER STRIPPING OR OTHER INFILTRATION CONTROL MEASURES.
- DAMPERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE DAMPERS SHALL BE CLOSED, BUT NOT SEALED BEYOND INTENDED INFILTRATION CONTROL MEASURES;
- INTERIOR DOORS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE OPEN;
- EXTERIOR DOORS FOR CONTINUOUS VENTILATION SYSTEMS AND HEAT RECOVERY VENTILATORS SHALL BE CLOSED AND SEALED;
- HEATING AND COOLING SYSTEMS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE TURNED OFF; AND
- SUPPLY AND RETURN REGISTERS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE FULLY OPEN.

DUCTWORK	
DESCRIPTION	DOUBLE LINE DUCT
SUPPLY DUCT UP	
SUPPLY DUCT DOWN	
ROUND DUCT UP SUPPLY/ RETURN/ EXHAUST	
ROUND DUCT DOWN SUPPLY/ RETURN/ EXHAUST	
STANDARD RADIUS ELBOW (R = W)	
SUPPLY/ RETURN/ EXHAUST	
MITERED ELBOWS W/ VANES	
SPLIT TAKE-OFF (TOP AND BOTTOM)	
BULLHEAD SPLIT SUPPLY	
CEILING DUCT MTD. DIFF/GRILLE	
TAKEOFF TO DIFF/GRILLE	
RECTANGULAR TO ROUND OVAL (φ) TO ROUND	
HORIZONTAL OFFSET SUPPLY/RETURN /EXHAUST	
45° TAP TAKE-OFF	
RECTANGULAR / ROUND (Ø) - OVAL (φ)	
90° TAP TAKE-OFF	
RECTANGULAR / ROUND (Ø) - OVAL (φ)	
BULLHEAD CONVERGE RETURN/EXHAUST	
RECTANGULAR / ROUND (Ø) - OVAL (φ)	
SIDEWALL DUCT MTD. REG./GRILLE	
OPEN END DUCT W/ 1/4" x 1/4" WMS	

EQUIPMENT SYMBOLS AND CALL OUTS	
	VOLUME DAMPER
	AIR HANDLING UNIT (AHU)
	SIDE WALL GRILL
	SUPPLY AIR DIFFUSER
	FLOOR SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	RETURN AIR GRILLE
	RETURN SIDE WALL GRILLE
	SUPPLY SIDE WALL GRILLE
	EXHAUST FAN
	SUPPLY DUCT
	EXHAUST DUCT
	RETURN AIR DUCT
	OUTDOOR UNIT (ODU)

GENERAL ABBREVIATIONS			
ARCH	ARCHITECT	N/A	NOT APPLICABLE
AHU	AIR HANDLING UNIT	NO.	NUMBER
BD	BACKDRAFT DAMPER	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CR	CEILING REGISTER	ODU	OUT DOOR UNIT
DP	DRAIN PIPE	RA	RETURN AIR
DIA	DIAMETER	RD	RETURN DUCT
EF	EXHAUST FAN	RG	REFRIGERANT GAS
ELEV	ELEVATION	RL	REFRIGERANT LIQUID
EX	EXHAUST	RPM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER	SD	SUPPLY DIFFUSER
FPM	FEET PER MINUTE	SQFT	SQUARE FEET
FR	FLOOR REGISTER	T	TEMPERATURE
FT	FEET		
GAL	GALLONS		
HP	HORSEPOWER	VD	VOLUME DAMPER
HZ	HERTZ		
IN	INCHES	W	WIDTH
KW	KILOWATT	WB	WET BULB TEMPERATURE
MECH	MECHANICAL	WR	WALL REGISTER
MIN	MINIMUM		

DRAWING LIST	
SHEET NO.	SHEET NAME
M001	GENERAL NOTES, LEGENDS & ABBREVIATIONS
M002	EQUIPMENT SCHEDULES & DETAILS
M101	HVAC FLOOR PLANS
M102	HVAC FLOOR PLANS

REVISIONS	
NO.	DATE
0	07/19/2023
	FOR SUBMITTAL
	DESCRIPTIONS

GENERAL NOTES, LEGENDS & ABBREVIATIONS

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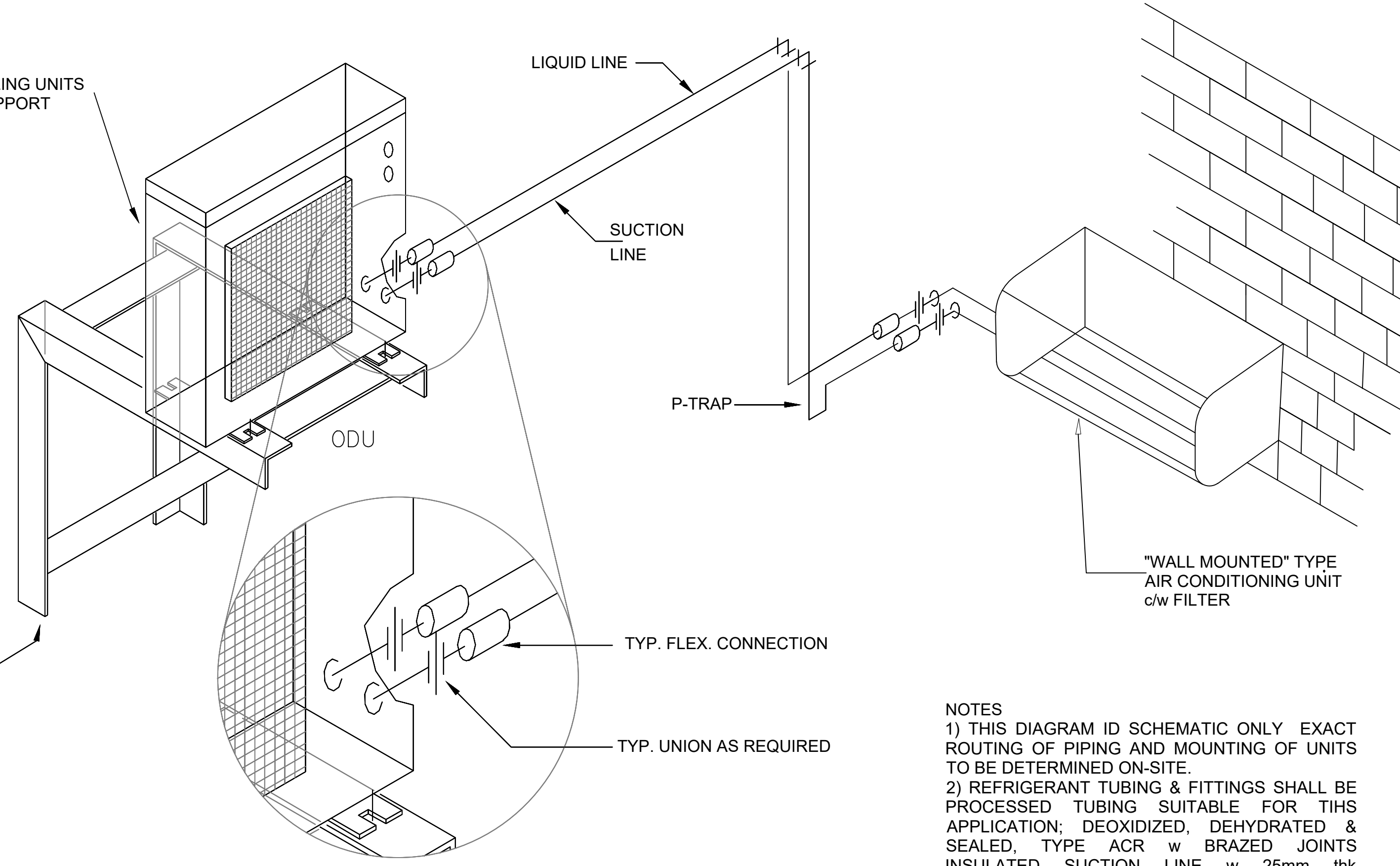
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M001 22-4006

THREADED STEEL HANGER RODS & VIBRATION HANGER SUPPORT

TYP. CONDENSER UNIT FOR AIR HANDLING UNITS AHU-1 & 2, MTD IN ATTIC SPACE ON SUPPORT FRAME SEE PLAN DWGS



TYP. 75X75X3 mm STEEL ANGLE MTG. FRAME; ALL WELDED CONST. BOLT SECURITY TO WALL w LAG BOLTS SIZED TO SUIT COORD. INSTALLATION ON-SITE.

- NOTES
- 1) THIS DIAGRAM IS SCHEMATIC ONLY EXACT ROUTING OF PIPING AND MOUNTING OF UNITS TO BE DETERMINED ON-SITE.
 - 2) REFRIGERANT TUBING & FITTINGS SHALL BE PROCESSED TUBING SUITABLE FOR THIS APPLICATION; DEOXIDIZED, DEHYDRATED & SEALED, TYPE ACR w BRAZED JOINTS INSULATED SUCTION LINE w 25mm thk ELASTOMER PIPE INSULATION

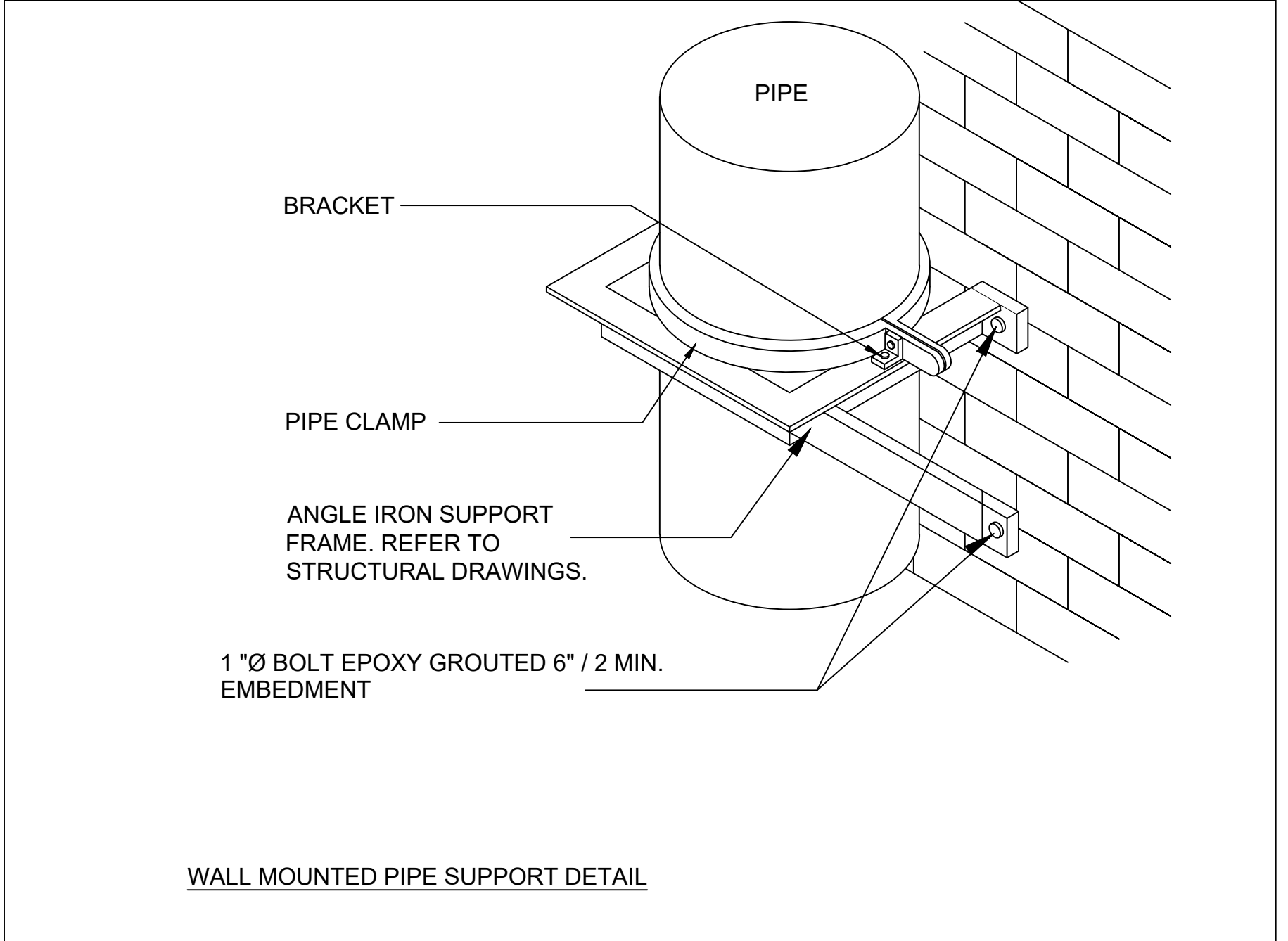
TAG NAME	QUANTITY	INDOOR UNIT								
		CFM	DIMENSION H*W*D(INCH)	WEIGHT (Lbs.)	MOTOR PH	VOLT	FLA (AMPS)	TOTAL (MBH)	SENSIBLE (MBH)	BASIS OF DESIGN
WM-1	6	400	11 5/8" * 31 7/16" * 9 1/2"	22	1	208-230	5.8	12	9.24	DAIKIN MODEL#MSY-GL12NA
WM-2	1	600	12 * 36 5/16" * 9 13/16"	28	1	208-230	5.8	18	11.52	DAIKIN MODEL#MSY-GL18NA
WM-3	2	300	11 5/8" * 31 7/16" * 9 1/2"	22	1	208-230	5.8	9	7.38	DAIKIN MODEL#MSY-GL09NA

OUTDOOR CONDENSING UNIT											
TAG NAME	VOLT	DIMENSION H*W*D (INCH)	WEIGHT (LB)	SEER	EER	HSPF	BASIS OF DESIGN				
ODU-1	240	52 11/16" * 41 11/32" * 17 3/8"	271	20	12.2	11.5	DAIKIN MODEL#MXZ-8C48NA2				ODU-1 CONNECTED TO TWO WM-3(0.75 TON), WM-2(1.5 TON) AND WM-1(1-TON)
ODU-2	240	34 5/8" * 33 1/16" * 13	119	20.5	12.5	11.5	DAIKIN MODEL#MUJ-GL24NA				ODU-2 CONNECTED TO TWO WM-1(1-TON)
ODU-3	240	33 7/16" * 33 1/16" * 13	126	15.1	8.2	11.5	DAIKIN MODEL#MUJ-GL18NA				ODU-2 CONNECTED TO THREE WM-1(1-TON)

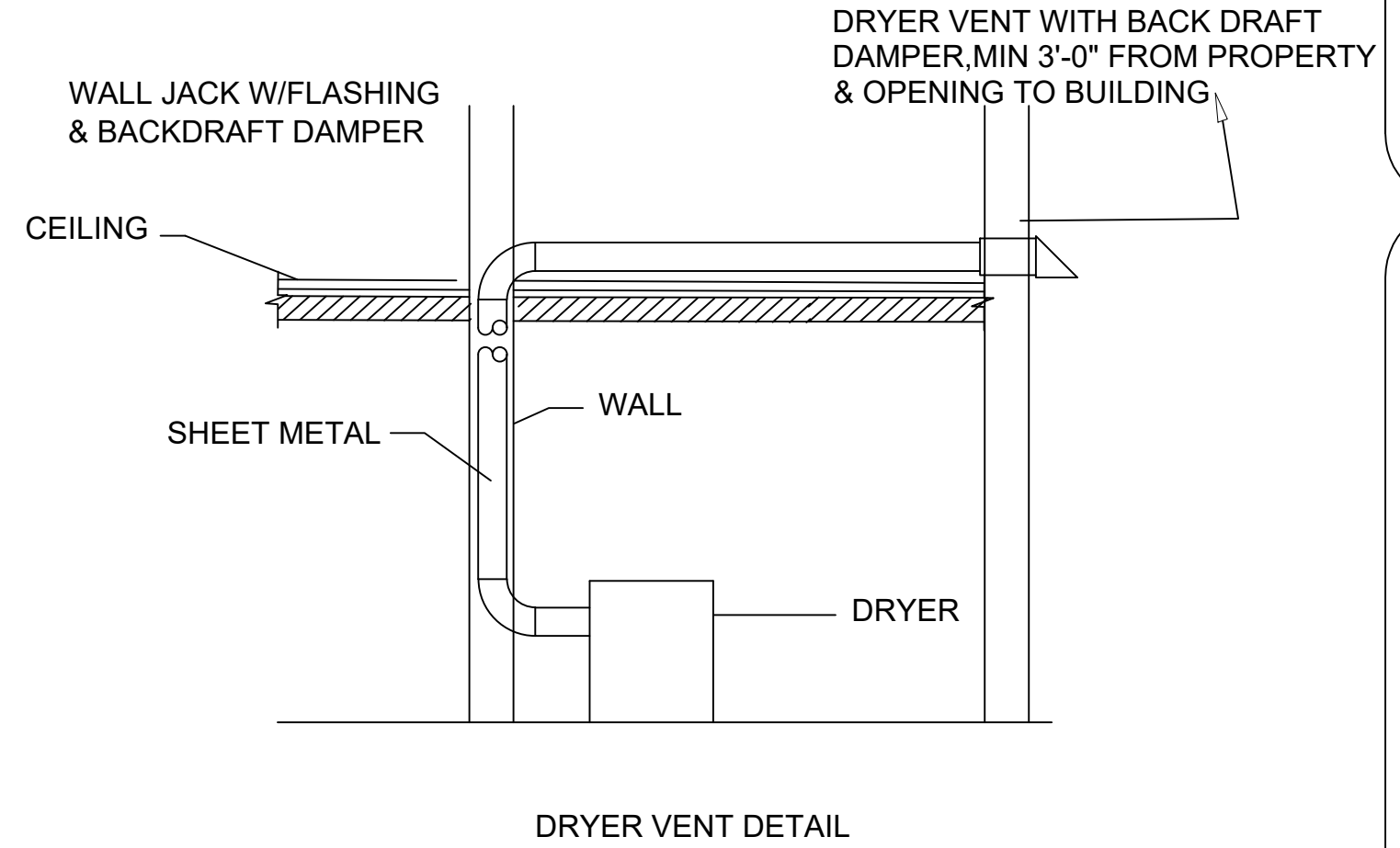
OUTSIDE AIR VENTILATION SCHEDULE												
S.N	DESCRIPTION	AREA (FT2)	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/PERSON)		AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/FT2)		OCCUPANTS	OCCUPANT OUTDOOR AIR (CFM)	AREA OUTDOOR AIR (CFM)	BREATHING ZONE OUTDOOR AIR (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ZONE OUTDOOR AIRFLOW (CFM)
			Rp	Ra	Pz	RpPz						
1	LOBBY	161	7.5	0.06	-	-	10	10	0.8	13		
2	OBSERVATION ROOM	208	10	0.18	3	30	38	68	0.8	85		
3	STORAGE	96	7.5	0.12	2	15	12	27	0.8	34		
4	OFFICE	79	5	0.06	2	10	5	15	0.8	19		
5	OFFICE	114	5	0.06	2	10	7	17	0.8	21		

EXHAUST FAN SCHEDULE											
TAG NAME	CFM	ESP (IN)	MOTOR POWER (WATT)	QUANTITY	TYPE	MOUNTING	VOLTS	PHASE	BASIS OF DESIGN	REMARKS	WATTAGE
EF-01	90	0.25	15	06	DIRECT DRIVE, ECM MOTOR	CEILING MOUNTED	120	1	PANASONIC WHISPER GREEN SELECT FV-05-11VK1	CAPABLE OF CONNECTIVITY TO VENTILATION DAMPER, ENERGY STAR RATED	5.5 Watts

- NOTES:
1. EACH E.A. FAN SHALL BE EQUIPPED WITH MOTORIZED BACK DRAFT DAMPER AT FAN DISCHARGE.
 2. EACH E.A. FAN SHALL HAVE RADIATION CEILING DAMPER AS MODEL SPECIFIED IN ABOVE E.A. FAN SCHEDULE.
 3. THE KITCHEN EXHAUST FAN TO HAVE TWO SPEED MOTOR CONTROLLED BY SPEED SWITCH.
 4. PROVIDE RADIATION DAMPERS ON FANS INSTALLED IN RATED CEILINGS



- NOTES:
1. DOMESTIC CLOTHES DRYER MOISTURE EXHAUST DUCT SHALL BE OF METAL AND SHELL HAVE SMOOTH INTERIOR SURFACES.
 2. LISTED CLOTHES DRYER TRANSITION DUCT COULD NOT BE MORE THAN 6 FT IN LENGTH.
 3. FLEXIBLE CLOTHES DRYER TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
 4. SECONDARY LINT TRAP IS REQUIRED ONLY WHEN DRYER BOOSTER FAN IS INSTALLED LESS THAN 15 FT A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH.
 5. WHERE DUCTS JOIN, THE MALE END SHALL BE IN THE DIRECTION OF AIRFLOW.
 6. DUCTS SHALL NOT BE ASSEMBLED WITH SCREWS OR OTHER FASTENING MEANS THAT EXTEND INTO DUCTS AND ARE CAPABLE OF CATCHING LINT.



INTAKE FAN SCHEDULE										
TAG NAME	CFM (MAX)	RPM (MAX)	MOTOR POWER (MAX WATT)	QUANTITY	WEIGHT (LBS)	MOUNTING	VOLTS	PHASE	DIMENSION H*W*D (INCH)	BASIS OF DESIGN
TT 150	244	2072	55	01	7	WALL MOUNTED	120	1	9 13/16" * 8 3/4" * 11 5/8"	VENTS-US TT150

GAUGE	THK.	1" STRAP CAPABILITY	MAXIMUM LOAD
24	.028	840	168
22	.034	1070	216
20	.040	1298	259

- NOTES:
1. FLEX DUCT WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING TYPICAL TO "FABRIFLEX"
 2. INSPECTOR SERIES" SPIN DOORS
 3. PROVIDE HANGER SPACING IAW FBCM AND SMASNA

* ELASTIC LIMIT ASSUMED 30ksi; RECOMMEND MAX LOAD (20% OF YIELD STRENGTH).

SUPPORT REQUIREMENT FOR DUCT

REVISIONS	
NO.	DATE
0	07/19/2023

EQUIPMENT SCHEDULES & DETAILS

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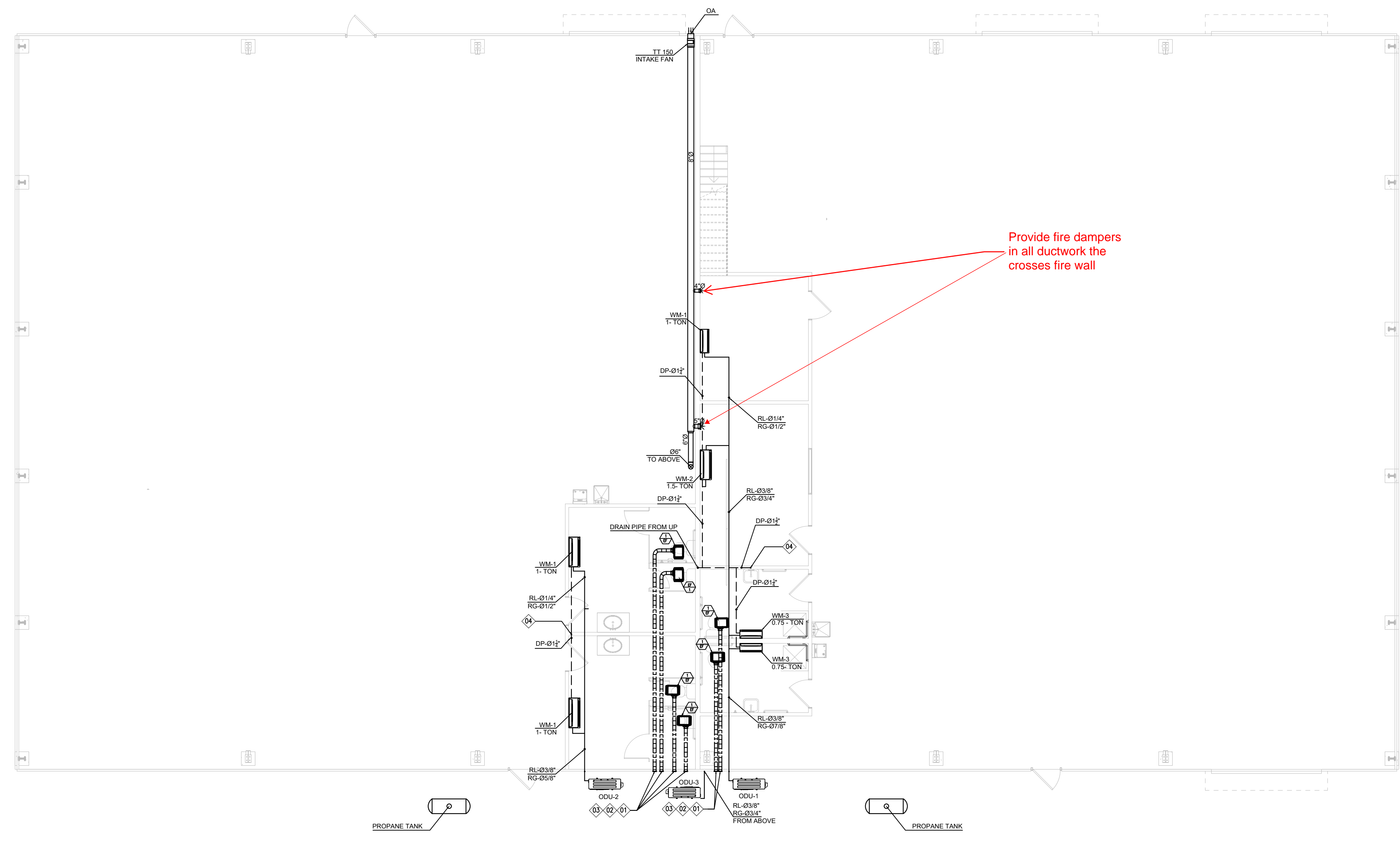


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M002 22-4006



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

NOTE: FOR SHOP-1 & SHOP-2 HEATER, CONTRACTOR TO PROVIDE CALCULATION FOR PROPANE TUBE HEATER AND PROPANE TANK

DRAWING NOTES

1. TOILET/DRYER EXHAUST TERMINATION POINT SHOULD BE AT LEAST 3 FT AWAY FROM PROPERTY LINE.
2. PROVIDE WALL CAP TO MATCH DUCT SIZE W/ A CORROSION RESISTANT BIRDS SCREEN (FOR ALL EXHAUST DUCT SEIHO #SFZ OR #SFZC MODEL ALUMINUM VENT ARE USED AS APPLICABLE).
3. PROVIDE MOTORIZED DAMPER FOR OUTDOOR AIR INTAKES AND BACKDRAFT DAMPER FOR BATHROOM EXHAUST FANS.
4. CONDENSATE DRAIN PIPE CONNECTED TO LAVATORY.

NO.	DATE	FOR SUBMITTAL	DESCRIPTIONS
0	07/19/2023		

HVAC FLOOR PLAN

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Cameron, NC 28326

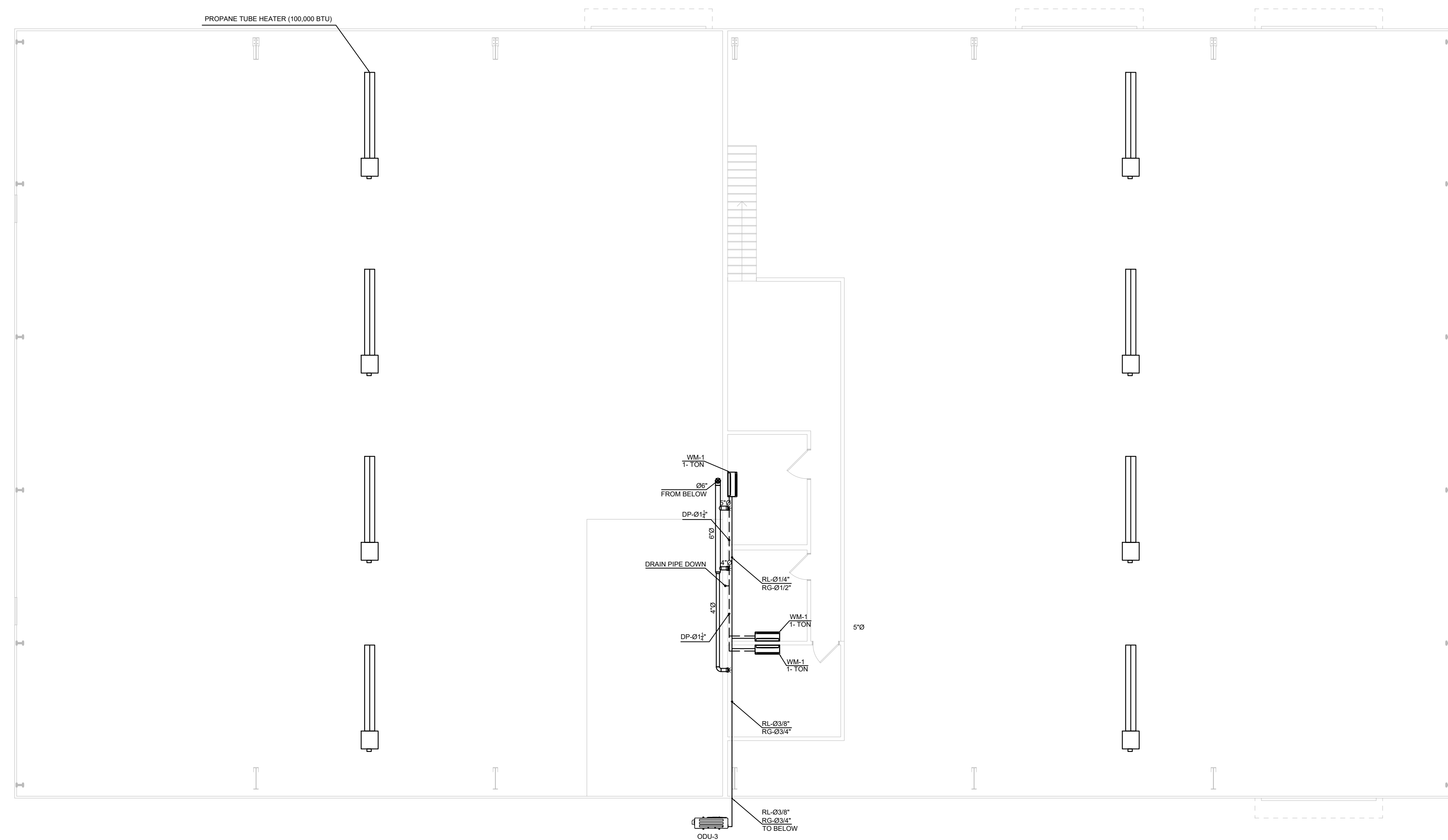


EQUAGEN
ENGINEERING & INSPECTIONS
FIRM LIC. # 1869

8045 ARCO CORPORATE DR.,
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DRAWN BY:	ST
CHECKED BY:	MKC
DATE:	07/19/2023
SCALE:	AS SHOWN

M101 22-4006



02 | 2ND FLOOR HVAC PLAN
SCALE 1/8" = 1'-0"

NOTE: FOR SHOP-1 & SHOP-2 HEATER, CONTRACTOR TO PROVIDE CALCULATION FOR PROPANE TUBE HEATER AND PROPANE TANK

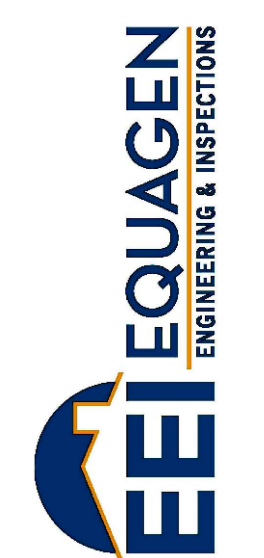
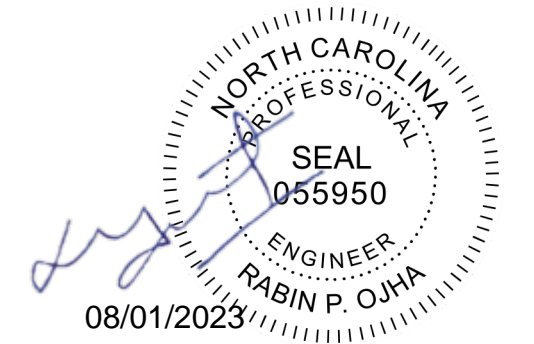
◇ DRAWING NOTES

1. TOILET/DRYER EXHAUST TERMINATION POINT SHOULD BE AT LEAST 3 FT AWAY FROM PROPERTY LINE.
2. PROVIDE WALL CAP TO MATCH DUCT SIZE W/ A CORROSION RESISTANT BIRDS SCREEN.(FOR ALL EXHAUST DUCT SEIHO #SFZ OR #SFZC MODEL ALUMINUM VENT ARE USED AS APPLICABLE).
3. PROVIDE MOTORIZED DAMPER FOR OUTDOOR AIR INTAKES AND BACKDRAFT DAMPER FOR BATHROOM EXHAUST FANS.
4. CONDENSATE DRAIN PIPE CONNECTED TO LAVATORY.

HVAC FLOOR PLAN

SITE ADDRESS:
2659 Hwy 87 S.
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PROFESSIONAL SEAL



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M102 22-4006

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REVISIONS

PLUMBING GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE GOVERNING CODES AND REGULATIONS. WHERE ANY PORTION OF THE SYSTEM SHOWN IS NOT IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, REGULATIONS OR CODES, THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
- THIS CONTRACTOR SHALL ORDER AND OBTAIN ALL NECESSARY TESTS, PERMITS AND CERTIFICATES OF APPROVAL AND PAY ANY REQUIRED FEES FOR IT.
- ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL EQUIPMENT, FIXTURES AND MATERIALS SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- EQUIPMENT CAPACITIES AND MANUFACTURER'S MODEL NUMBERS ARE INDICATED ON THE DRAWINGS.
- ALL EQUIPMENT REQUIRING ELECTRIC POWER SHALL BE SUITED FOR USE WITH THE POWER TO BE SUPPLIED, SEE ELECTRICAL DRAWINGS. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
- THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF CHASES, FURRING SPACES, DROPPED CEILINGS, STRUCTURE PENETRATIONS, PAINTING, ETC.
- THIS CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE INSTALLATION. A ONE YEAR SERVICE CONTRACT SHALL BE INCLUDED AS PART OF THIS WORK.
- CORE DRILLING SHALL NOT BE DONE UNTIL THE AREA TO BE DRILLED IS X-RAYED AND WRITTEN APPROVAL IS OBTAINED FROM THE PROJECT STRUCTURAL ENGINEER AND OWNER.
- THE CONTRACTOR SHALL PROVIDE THE EVIDENCE THAT SHOWS DISINFECTION OF POTABLE WATER AS REQUIRE PER SECTION 610 OF 2017 VA PLUMBING CODE
- NO HOT WATER OR COLD WATER IS PERMITTED THROUGH EXTERIOR WALL(S)
- WHERE THE PUMP DISCHARGE LINE CONNECTS INTO HORIZONTAL DRAINAGE PIPING, THE CONNECTION SHALL BE MADE THROUGH A WYE FITTING INTO THE TOP OF THE DRAINAGE PIPING, AND SUCH WYE FITTING SHALL BE LOCATED NOT LESS THAN 10 PIPE DIAMETERS FROM THE BASE OF ANY SOIL STACK, WASTE STACK OR FIXTURE DRAIN. [2017 VA PLUMBING CODE, SECTION 712.3.5]

BASIC MATERIALS AND METHODS:

- ALL PIPING CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH GROUND JOINT UNIONS.
- PIPE HANGER AND SUPPORTS: CLEVIS OR SPILT RING TYPE SPACING AND ROD SIZE AS RECOMMENDED IN MSSSP-69, MECHANICAL CODE AND IN ACCORDANCE WITH INDUSTRY PRACTICE. SELECT TO FIT AROUND BARE PIPE OR AROUND INSULATION WITH INSULATION SADDLE/SHIELD FOR INSULATED PIPING, HANGERS FOR COPPER PIPE SHALL BE COPPER OR COPPER PLATED. BAND IRON HANGERS SHALL NOT BE USED. HANGERS AND ACCESSORIES SHALL BE F&M CORPORATION OR APPROVED EQUAL.
- PIPE SUPPORTS: SUPPORTS TO BE PROVIDED IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH INDUSTRY PRACTICE. STEEL RISER CLAMPS WITH PLASTIC COATING OR COPPER PLATED OR COOPER PIPES. F & M CORPORATION OR EQUAL.

PIPING

- INSTALL PIPE TUBE AND FITTINGS IN ACCORDANCE WITH INDUSTRY PRACTICE WHICH WILL ACHIEVE PERMANENTLY LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. TEST PIPING FOR LEAKAGE. REPAIR PIPING SYSTEMS SECTIONS WHICH FAIL TEST BY DISASSEMBLY AND RE-INSTALLATION, USING NEW MATERIALS TO THE EXTENT REQUIRED TO OVERCOME LEAKAGE, UNDER NO CIRCUMSTANCES USE CHEMICALS, STOP-LEAK COMPOUNDS, MASTICS, TAPES OR OTHER TEMPORARY REPAIR METHODS.
- ALL SANITARY PIPING SHALL BE SLOPED AS NOTED ON PLANS. WHERE NOT NOTED, SLOPE PIPING AT MINIMUM REQUIRED BY CODE.
- ALL PIPING SHOWN ON THE FLOOR PLANS SHALL BE LOCATED ABOVE THE CEILING OR INSIDE CHASES UNLESS OTHERWISE NOTED.
- STORM, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON PIPE AND FITTINGS CISPI 301, HUB & SPIGOT SOIL PIPE AND FITTINGS ASTM A-74, GALVANIZED CAST IRON FITTINGS ANSI/ASTM A-74 OR DWV COPPER WITH WROUGHT COPPER FITTINGS, ASTM B306. OR SCHEDULE 40 PVC
- DOMESTIC WATER PIPING SHALL BE CROSS-LINKED POLYETHYLENE (PEX) OR TYPE "L" HARD-DRAWN TEMPER, WROUGHT COPPER FITTINGS, NON-LEAD SOLDERED JOINTS WITH NON-CORROSIVE FLUX, ANSI B-88.

INSULATION

- PROVIDE INSULATION FOR PIPING, AND EQUIPMENT OF TYPES AND THICKNESS SPECIFIED HEREIN, INSULATION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSTALL INSULATION IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A CONTINUOUS VAPOR BARRIER SHALL BE PROVIDED ON ALL COLD WATER PIPING AND COLD AIR DUCTWORK. INSULATION SHALL BE ARMSTRONG, CERTANTEED, OWENS-CORNING OR JOHNS-MANVILLE. PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR INSULATION FOR HOT WATER PIPE WITH A MINIMUM THERMAL RESISTANCE (R-VALUE) OF R-3 SHALL BE APPLIED TO THE FOLLOWINGS:
 - PIPING LARGER THAN 3/4 INCH NOMINAL DIAMETER.
 - PIPING SERVING MORE THAN ONE DWELLING UNIT.
 - PIPING FROM WATER HEATER TO KITCHEN OUTLETS.
 - PIPING LOCATED OUTSIDE THE CONDITIONED SPACE.
 - PIPING FROM THE WATER TO A DISTRIBUTION MANIFOLD.
 - PIPING LOCATED UNDER A FLOOR SLAB.
 - BURIED PIPING.
 - SUPPLY AND RETURN PIPING IN RECALCULATION SYSTEMS OTHER THAN DEMAND RECALCULATION SYSTEMS.
 - PIPING WITH RUN LENGTHS GREATER THAN THE MAXIMUM RUN LENGTHS FOR THE NOMINAL PIPE DIAMETER GIVEN IN TABLE R403.4.2. ALL REMAINING PIPING SHALL BE INSULATED TO AT LEAST R-3 OR MEET THE RUN LENGTH REQUIREMENTS OF TABLE R403.4.2.

VALVES

GATE VALVES, 2-INCH AND SMALLER: MSS SP-80; CLASS 125.

- BODY AND BONNET OF ASTM B 62 CAST BRONZE; WITH THREADED OR SOLDER ENDS, SOLID DISC, COPPER-SILICON ALLOY STEM, BRASS PACKING GLAND, "TEFLON" IMPREGNATED PACKING, AND MALLEABLE IRON HANDWHEEL. PROVIDE CLASS 150 VALVES MEETING THE ABOVE WHERE SYSTEM PRESSURE REQUIRES. DO NOT USE SOLDER END VALVES FOR HOT WATER HEATING OR STEAM PIPING APPLICATIONS.
- BALL VALVES: 2-PIECE, BRONZE BODY, BLOW-OUT PROOF STEM, METAL BALL, TEFLON SEAL RING, SCREWED OR SOLDERED ENDS, 400 LB. WOG. NIBCO OR STOCKHAM.
- PROVIDE "ANTI-SCALD" VALVES FOR SHOWERS AND SHOWERS/BATH.
- PROVIDE VALVES FOR THE FOLLOWING SERVICES:
 - DOMESTIC WATER 1" AND LARGER - GATE VALVE
 - DOMESTIC WATER SMALLER THAN 1" - BALL VALVE LOCATE VALVES IN ACCESSIBLE LOCATIONS WHEREVER POSSIBLE ABOVE SUSPENDED CEILINGS OR WALLS, PROVIDE STEEL ACCESS PANELS DIRECTLY IN FRONT OF VALVES. LOCATION MUST BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF PIPING SYSTEM.

CLEANOUTS

- CLEANOUTS SHALL BE INSTALLED NOT MORE THAN 50 FT. APART IN HORIZONTAL DRAINAGE LINES, A CLEAN OUT SHALL BE PROVIDED AT THE BASE OF EACH VERTICAL WASTE, SOIL STACK, OF THE SANITARY BUILDING DRAINS AND BUILDING SEWERS, AND THE STORM AND BUILDING SEWERS.
- CLEANOUTS ON CONCEALED PIPING SHALL BE EXTENDED THROUGH AND TERMINATE FLUSH WITH THE FINISHED WALL OR FLOOR WITH ACCESS COVER OF SUFFICIENT SIZE TO PERMIT REMOVAL OF THE CLEANOUT PLUG. CLEANOUTS SHALL NOT BE INSTALLED IN AREAS OF FLOORS TO RECEIVE TERRAZZO, CERAMIC TILE OR STONE FINISH.
- CLEANOUTS SHALL BE INSTALLED SO THAT THE CLEANOUT OPENS IN THE DIRECTION OF THE DRAINAGE LINE OR AT RIGHT ANGLES THERETO
- CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPES THEY SERVE UP TO 4" AND NOT LESS THAN ONE NOMINAL PIPE SIZE SMALLER FOR LARGER PIPE.
- A FIXTURE TRAP OR A FIXTURE WITH INTEGRAL TRAP, READILY REMOVABLE WITHOUT DISTURBING CONCEALED PIPING, MAY BE ACCEPTED AS A CLEANOUT EQUIVALENT.
- LOCATE CLEANOUTS IN ACCESSIBLE LOCATIONS WHEREVER POSSIBLE, ABOVE SUSPENDED CEILINGS ETC. IF LOCATED ABOVE OR BEHIND DRYWALL CEILINGS, PROVIDE STEEL ACCESS PANELS DIRECTLY IN FRONT OF VALVES. PROVIDE CHROME PLATED BRASS COVER PLATES FOR CLEANOUTS LOCATED WITHIN DRYWALL PARTITIONS. LOCATIONS MUST BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF PIPING SYSTEM

FIXTURES

FIXTURES, FITTINGS, TRIM AND ACCESSORIES SHALL BE SAME

- MANUFACTURERS TO THE EXTENT POSSIBLE.
- BARRIER FREE STANDARDS: COMPLY WITH APPLICABLE ANSI STANDARDS PERTAINING TO PLUMBING FIXTURES AND SYSTEMS INCLUDING ANSI A 117.1 STANDARD PERTAINING TO PLUMBING FIXTURES FOR THE HANDICAPPED. COMPLY WITH THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT". FIXTURES DESIGNATED BARRIER FREE ARE INTENDED TO BE "USABLE BY PHYSICALLY HANDICAPPED PEOPLE". FIXTURES FOR USE BY HANDICAPPED PEOPLE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A 117.1.
- ENERGY CONSERVATION CODE COMPLIANCE: COMPLY WITH LOCAL AUTHORITY STANDARDS FOR PLUMBING FIXTURE FLOW CONTROLS. WHERE NO CODE OR STANDARD IS IN USE, USE THE CURRENT 2017 IECC. WHEN A SPECIFIED DEVICE IS MORE RESTRICTIVE THAN THE LOCAL STANDARDS, THE SPECIFIED DEVICE SHALL BE INSTALLED EXCEPT WHERE PROHIBITED.
- ALL THE PLUMBING FIXTURES MUST BE ENERGY STAR CERTIFIED/LABELED.
- SUBMIT MANUFACTURER'S SPECIFICATIONS FOR PLUMBING FIXTURES AND TRIM, INCLUDING CATALOG LITERATURE AND MANUFACTURER'S NAME OF EACH FIXTURE TYPE AND TRIM ITEM CARRIERS, AND INSTALLATION INSTRUCTIONS. PROPOSED SUBSTITUTIONS SHALL BE INDICATED AND DRAWINGS, CATALOG LITERATURE, OR OTHER DATA SHALL BE FURNISHED FOR COMPARISON.
- FIXTURES SHALL BE WHITE EXCEPT WHERE INDICATED OTHERWISE OR WHERE FIXTURE IS PROVIDED IN A MANUFACTURED FINISH.
- EXPOSED METAL FITTINGS, TRIM, AND ACCESSORIES SHALL HAVE POLISHED CHROME PLATED FINISH.
- SUPPLIES: PROVIDE A STOP ON EACH WATER SUPPLY TO EACH FIXTURE, PROVIDE ACCESS PANELS FOR CONCEALED STOPS.
- TRAPS: PROVIDE A TRAP ON EACH FIXTURE, EXCEPT WHERE FIXTURE SPILLS OVER A PROPERLY TRAPPED DRAIN OR OTHER RECEPTOR, ALL SINK AND LAVATORY TRAPS SHALL BE CHROME PLATED CAST BRASS SWIVEL PATTERN WITH CLEANOUT. ALL TUBING DRAINS SHALL BE MINIMUM 17 GAUGE THICKNESS CHROME PLATED METAL.
- ESCUTCHEONS: PROVIDE DEEP PATTERN ESCUTCHEONS FOR SUPPLIES AND TRAPS WHERE ROUGH-IN PIPING WOULD BE VISIBLE USING STANDARD ESCUTCHEONS.

PLUMBING AND SPRINKLER SYSTEM GENERAL NOTES

- PLUMBING SYSTEM
 - ALL PLUMBING WORK SHALL BE PERFORMED PER REQUIREMENTS OF LOCAL CODES AND REGULATIONS.
 - REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LIMITS OF WORK AND BUILDING STANDARDS.
 - COORDINATE WORK WITH ALL OTHER TRADES AND INSPECT EXISTING CONDITIONS PRIOR TO BEGINNING INSTALLATION.
 - SCHEDULE WITH THE OWNER TEMPORARY SHUT-OFF SERVICES TO PUBLIC/OTHER AREAS.
 - INSTALL AND CONCEAL ALL WASTE, VENT AND WATER PIPING BETWEEN FLOOR AND CEILING OR WITHIN PARTITIONS AND/OR WALLS.
 - CONTRACTOR SHALL IDENTIFY THE EXACT LOCATION, AND SIZE OF EXISTING PLUMBING PIPING AND STACKS, BEFORE THE START OF WORK.

PIPING SPECIALTIES

- PROVIDE FACTORY FABRICATED PIPING SPECIAL TIES OF TYPES RECOMMENDED BY MANUFACTURERS FOR SERVICES INDICATED.
- PROVIDE ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH WALLS, FLOORS OR CEILINGS, OUTSIDE DIAMETER TO COVER COMPLETELY PIPE PENETRATION HOLE OR PIPING SLEEVE, NICKEL OR CHROME FINISH FOR EXPOSED AREAS, PRIME PAINT FINISH FOR CONCEALED AREAS.
- UNIONS: PROVIDE DIELECTRIC UNIONS AT CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING. EPCO, STOCKHAM OR EQUAL.

GENERAL ABBREVIATIONS	
ASV	- AUTOMATIC SHUT-OFF VALVE
BFP	- BACK FLOW PREVENTER
CW	- COLD WATER
CWR	- COLD WATER RISER
CSB	- CURB STOP BOX
DFU	- DRAIN FIXTURE UNITS
FCO	- FLOOR CLEAN OUT
FN	- DRINKING FOUNTAIN
FD	- FLOOR DRAIN
GPM	- GALLON PER MINUTE
HW	- HOT WATER
HWFU	- HOT WATER FIXTURE UNITS
LV	- LAVATORY
PRV	- PRESSURE RELIEF VALVE
SO	- SHUT-OFF
SR	- SANITARY RISER
S	- SANITARY PIPE
SH	- SHOWER HEAD
WC	- WATER CLOSET
WM	- WASHING MACHINE
WHA	- WATER HAMMER ARRESTOR
WH	- WATER HEATER
WSFU	- WATER SUPPLY FIXTURE UNITS
US	- UTILITY SINK
VTR	- VENT THROUGH ROOF
V	- VENT PIPE

PLUMBING LEGENDS	
SYMBOL	DESCRIPTION
—	COLD WATER (CW)
----	HOT WATER (HW)
- - - -	SANITARY (S)
- · - · -	VENT (VTR)
	WATER METER (WM)
	SHUT-OFF (SO)
	PRESSURE REGULATING VALVE (PRV)
	CURB STOP BOX (CSB)
	AUTOMATIC SHUT-OFF VALVE (ASV)
	BACK FLOW PREVENTER (BFP)
	FLOOR DRAIN
	BACK WATER VALVE (BWV)

PLUMBING FIXTURE SCHEDULE							
FIXTURE NAME	WSFU	CWFU	HWFU	DFU	MIN PIPE SIZE OF CW/HW	MAX FLOW	REMARKS
WATER CLOSET	2.2	2.2	-	3	1/2"	≤1.28 GALLONS PER FLUSHING CYCLE	WaterSense Certified
LAVORATORY	0.7	0.5	0.5	1	1/2"	≤1 GPM AT ≤60 PSI	WaterSense Certified
SHOWER HEAD	1.4	1.0	1.0	-	1/2"	≤1.5 GPM AT ≤60 PSI	WaterSense Certified
ATTACHED CLOTHES WASHER	4	4.0	-	-	1/2"	4239 gallons per year	Energy Star Rated

ELECTRIC WATER HEATER WITH TANK SPECIFICATION									
TAG NAME	LOCATION	QUANTITY	NOMINAL (gallon)	VOLTAGE	UEF	DIAMETER	WEIGHT	WATER CONNECTION SIZE (INCH)	BASIS OF DESIGN
WH-(01-02)	AS SHOWN	2	50	240	0.92	20.5"	120 lbs	3/4	AO SMITH #ENT50
NOTES	1. DRAIN PAN WITH DRAIN LINE TO FLOOR DRAIN WITH EACH WATER HEATER. 2. TEMP AND PRESSURE RELIEF VALVE WITH DRAIN LINE TO FLOOR DRAIN WITH EACH WATER HEATER.								

DRAWING LIST	
SHEET NO.	SHEET NAME
PLUMBING	
P001	GENERAL NOTES, LEGEND & ABBREVIATIONS
P002	PLUMBING DETAILS & EQUIPMENT SCHEDULES
P101	PLUMBING FLOOR PLAN
P102	PLUMBING FLOOR PLAN
P201	WATER SUPPLY SCHEMATIC - PLUMBING
P202	SANITARY SCHEMATIC - PLUMBING

NO.	DATE	DESCRIPTIONS
0	07/26/2023	FOR SUBMITTALS

REVISIONS

GENERAL NOTES, LEGENDS & ABBREVIATIONS

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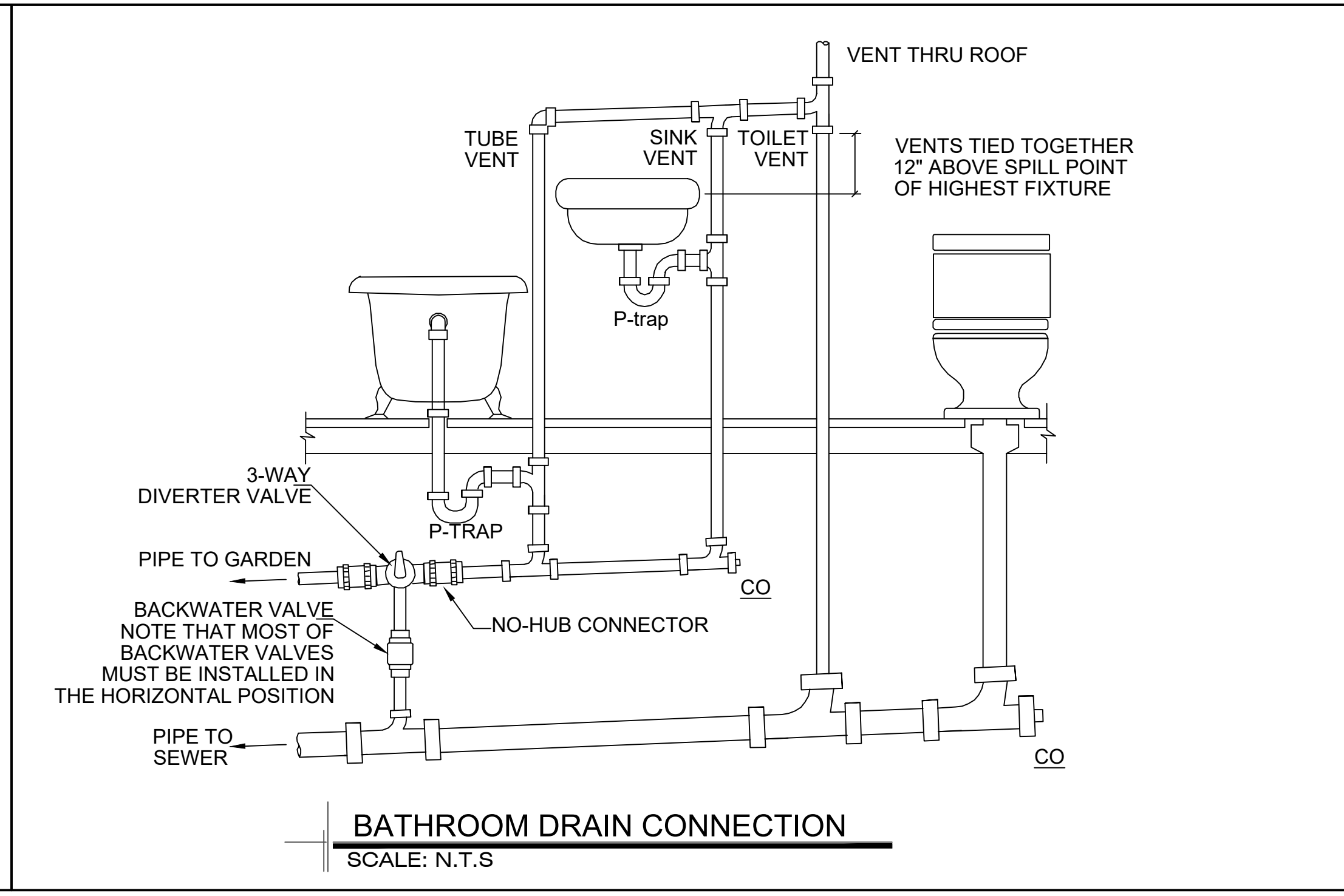
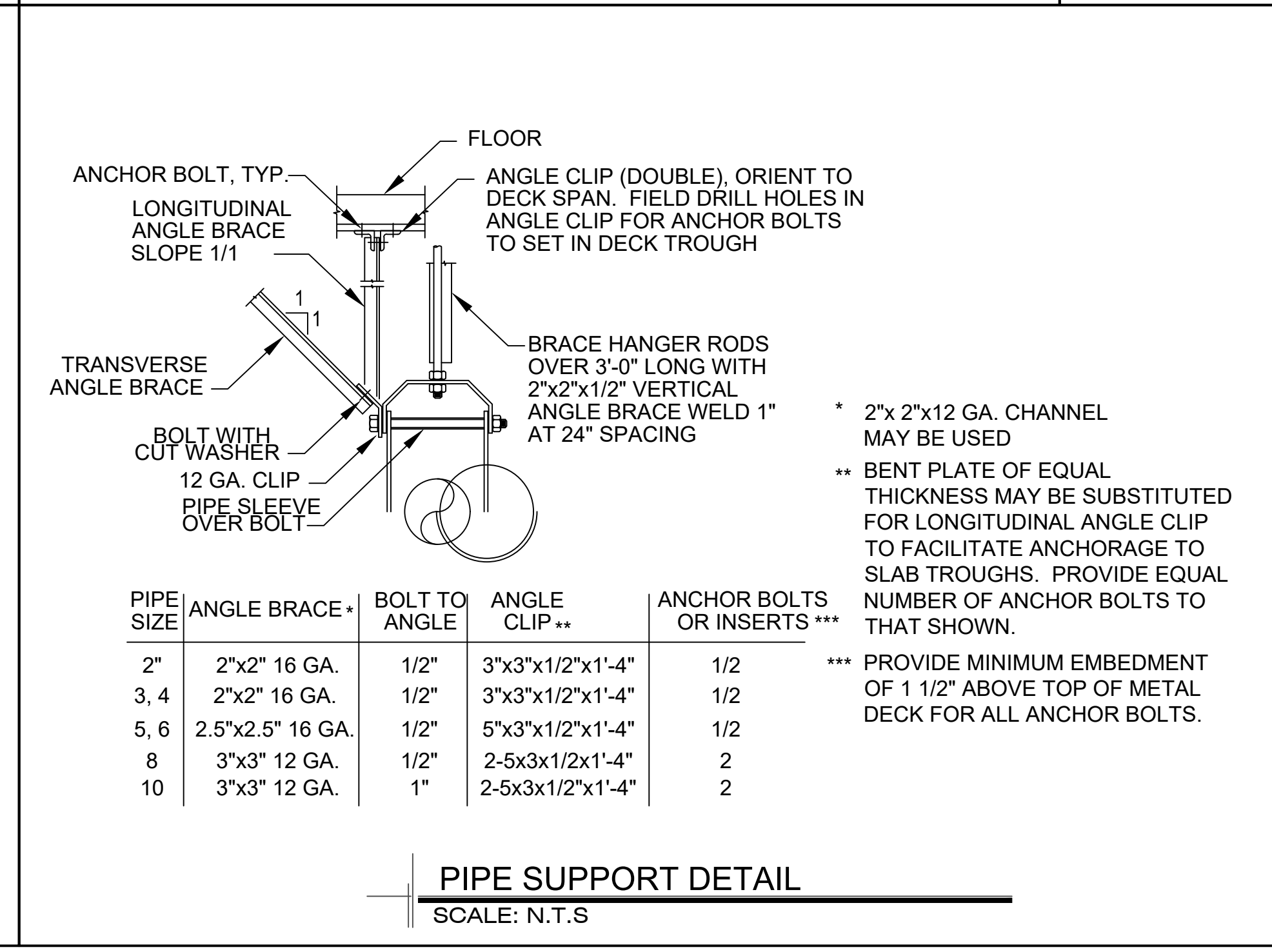
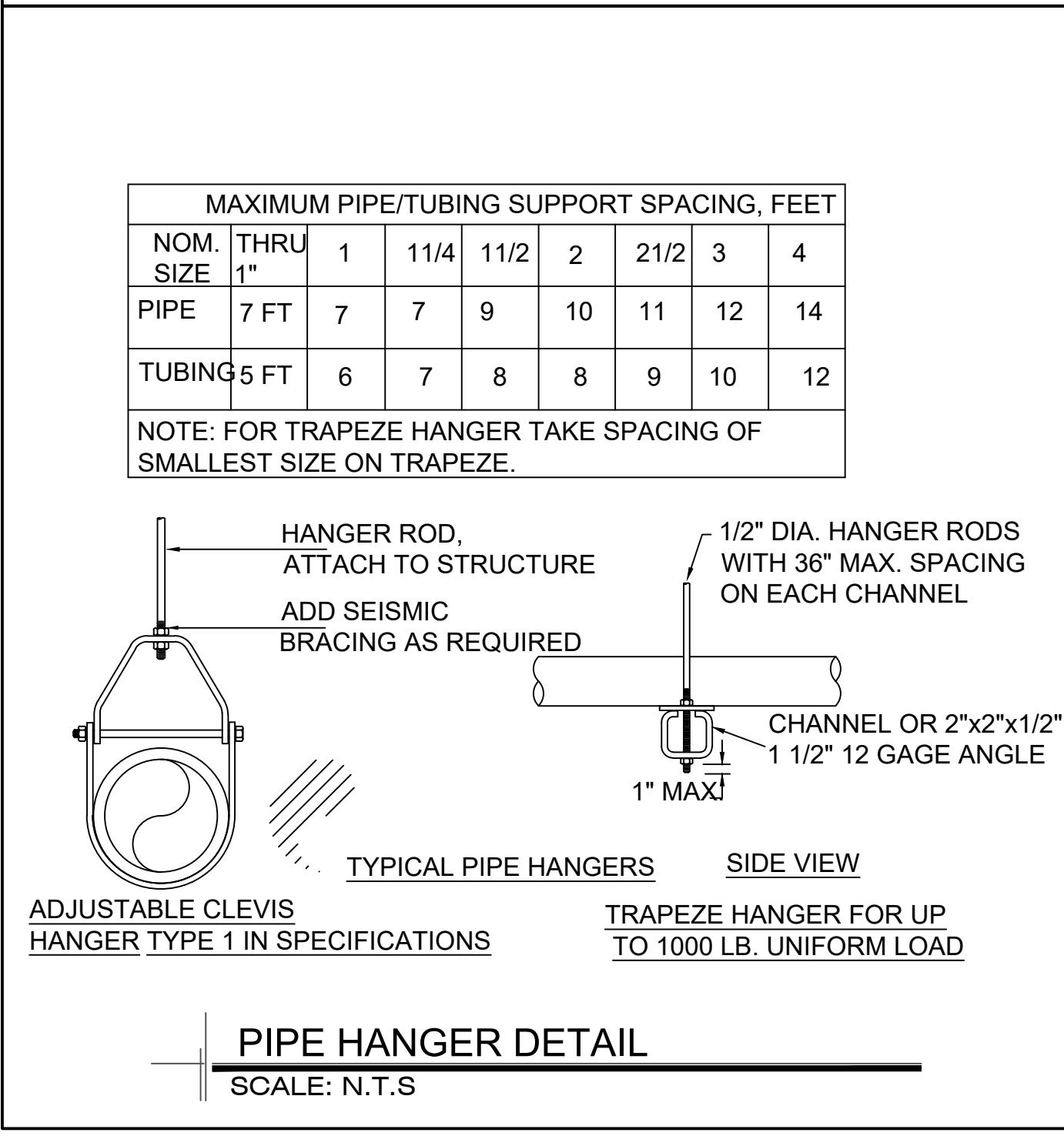
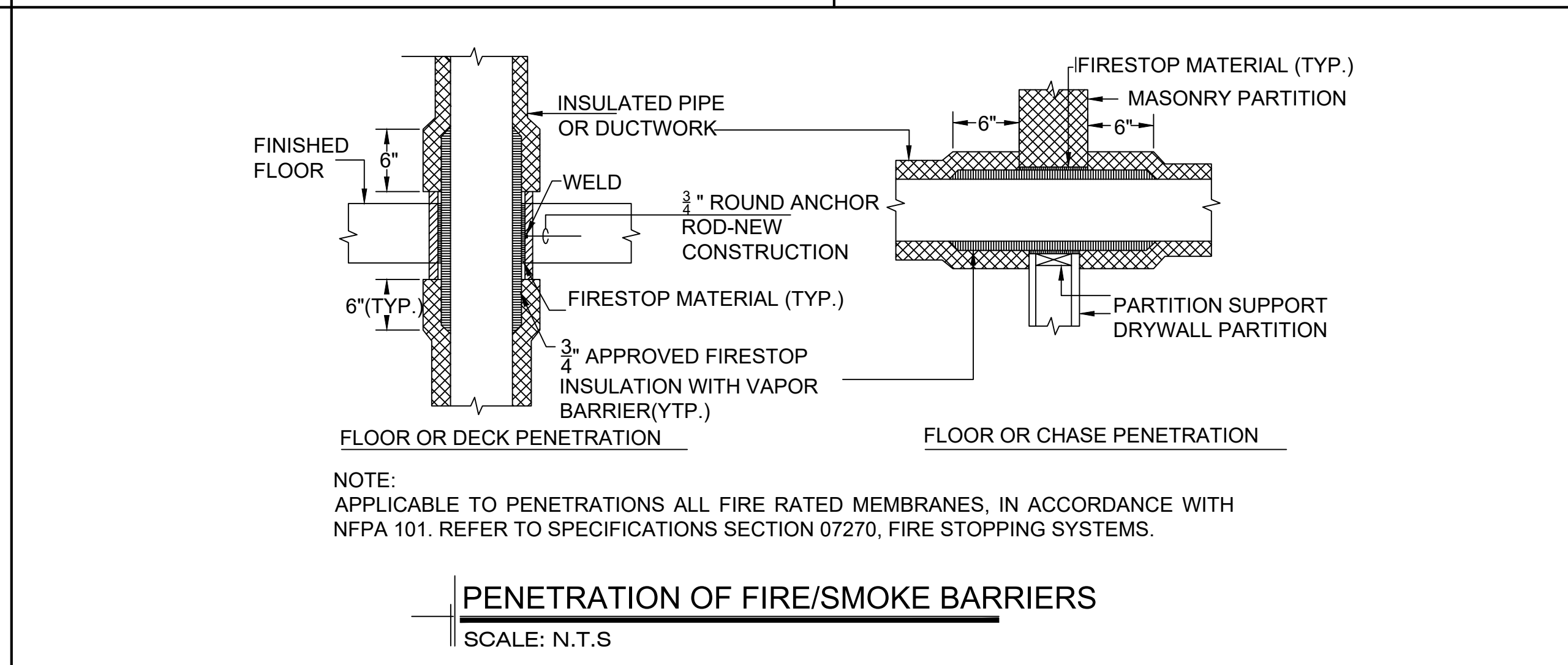
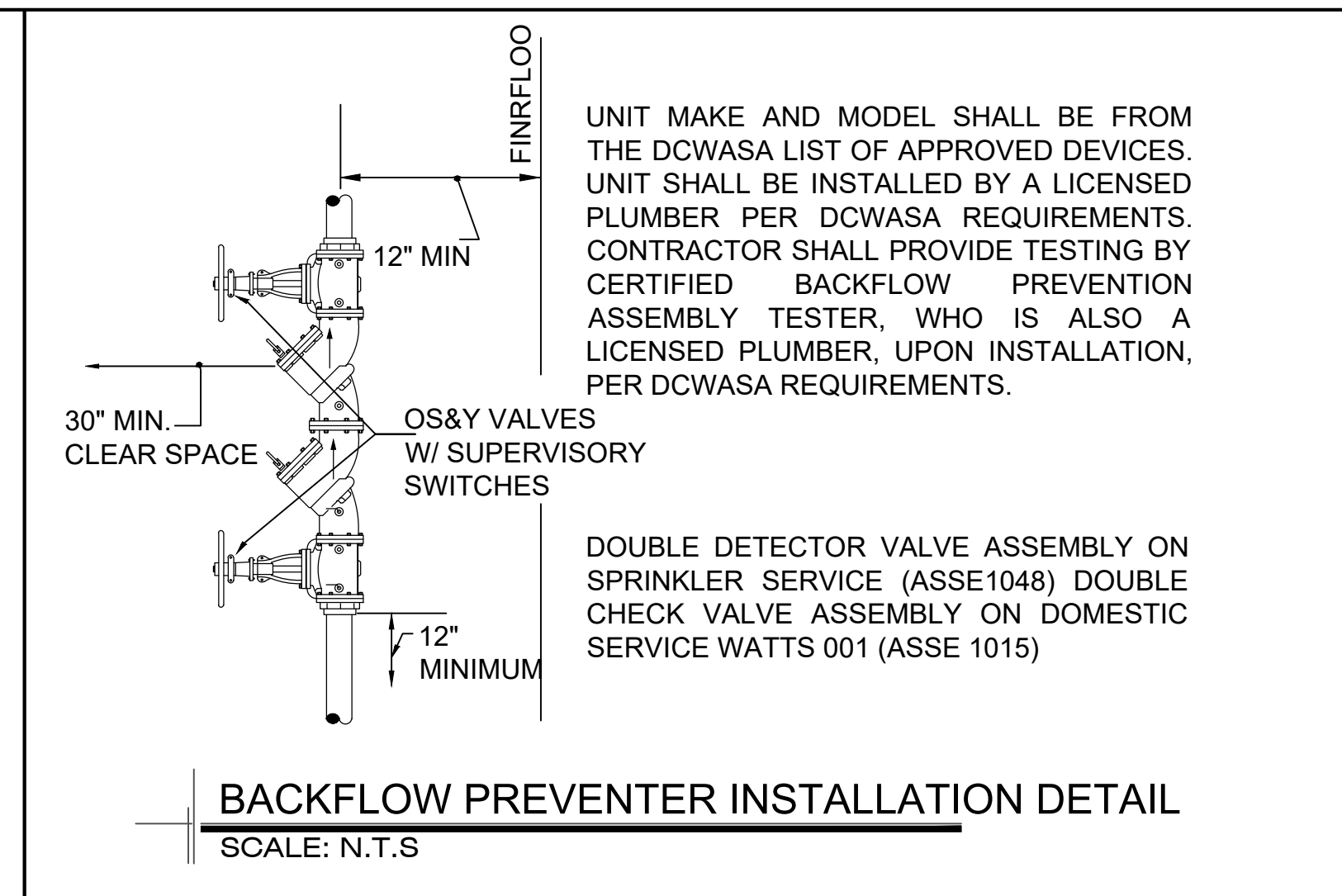
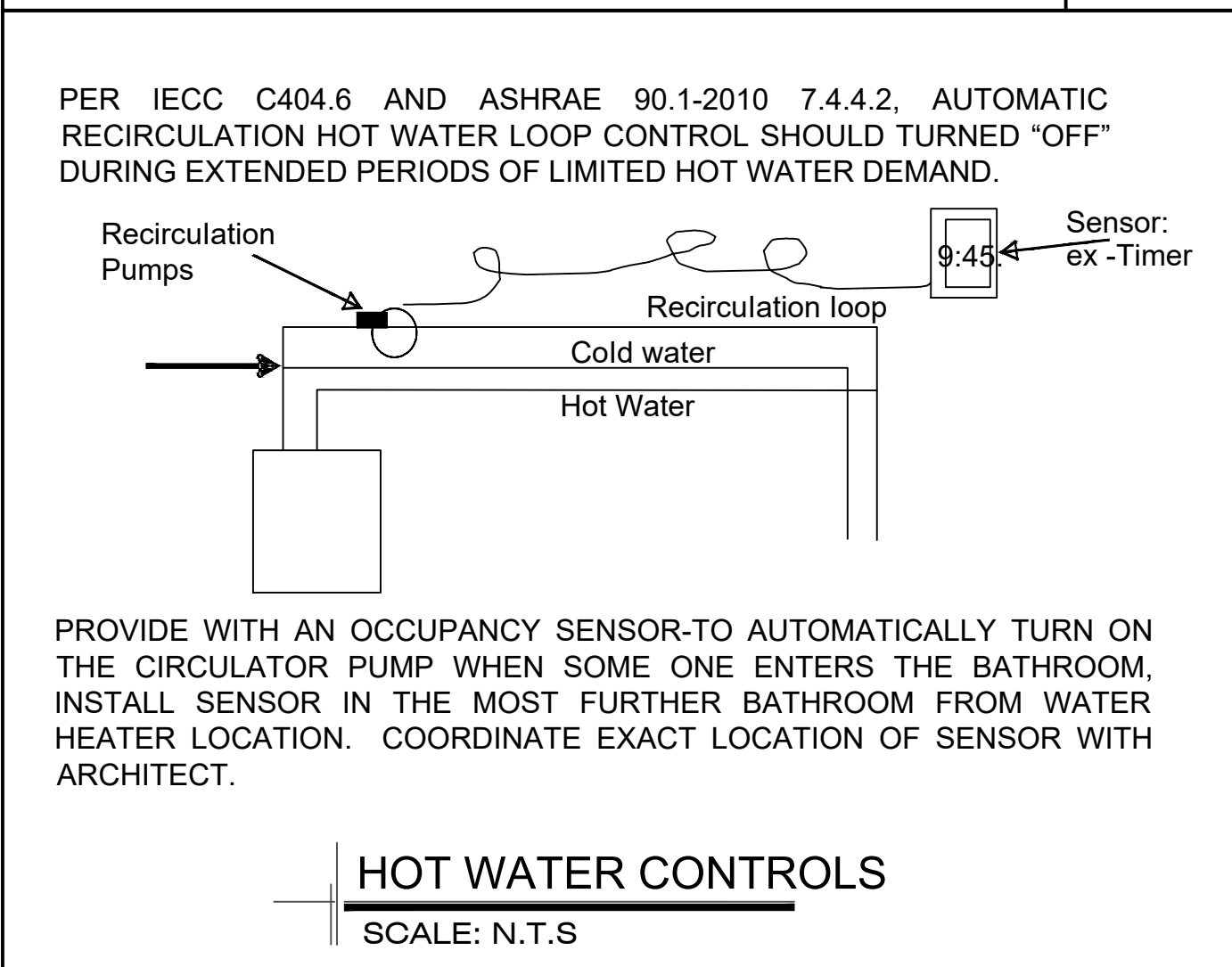
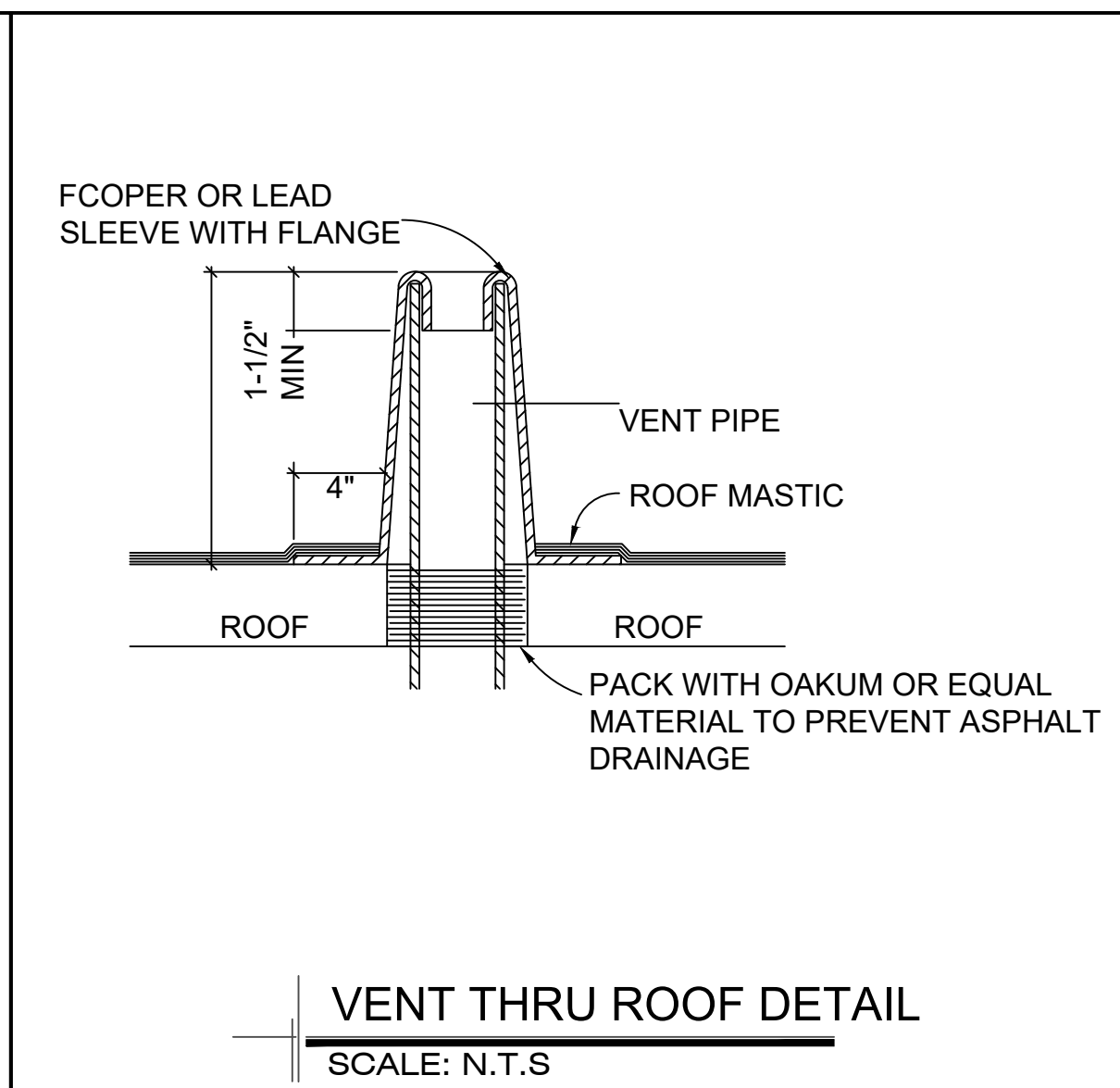
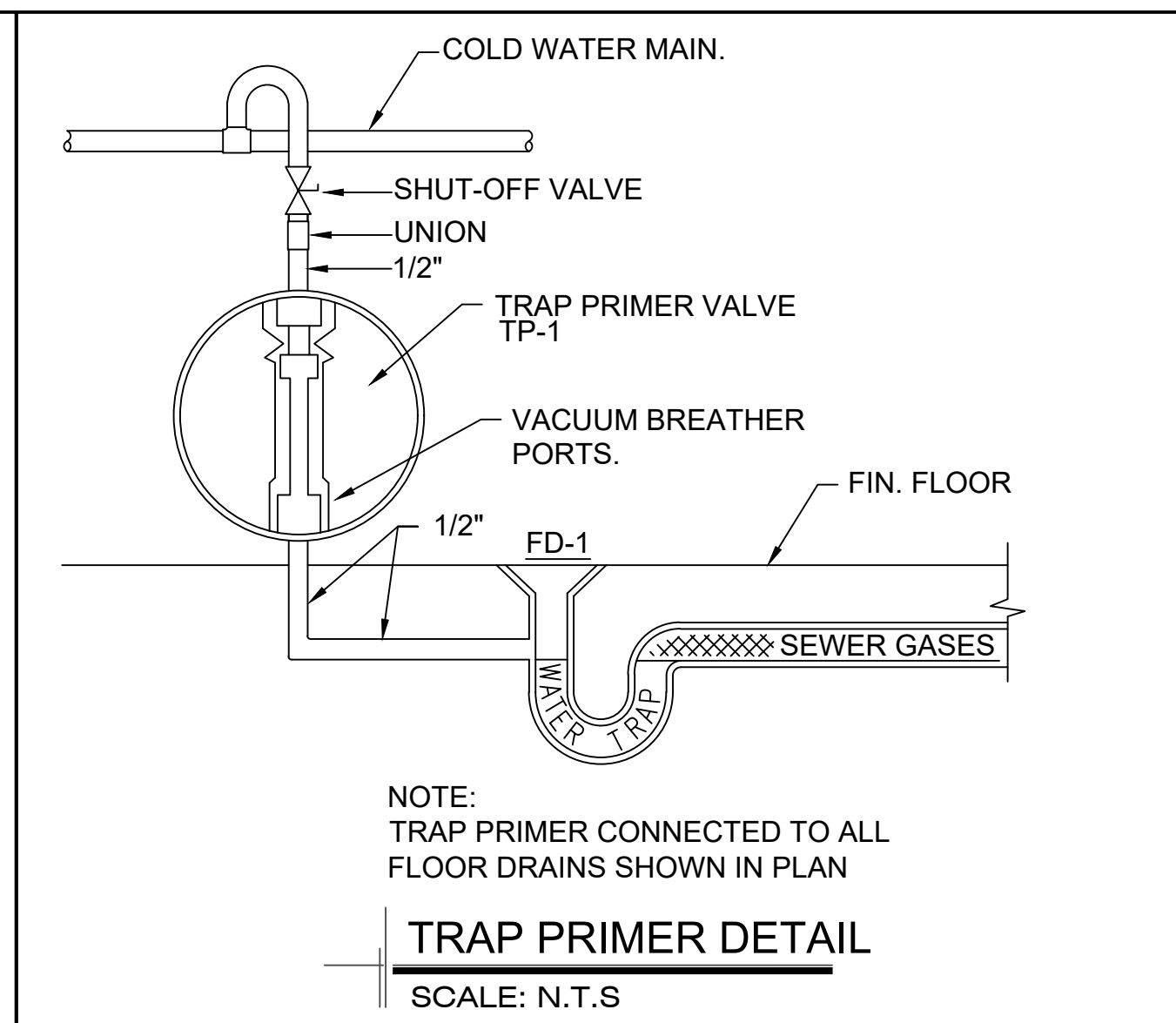
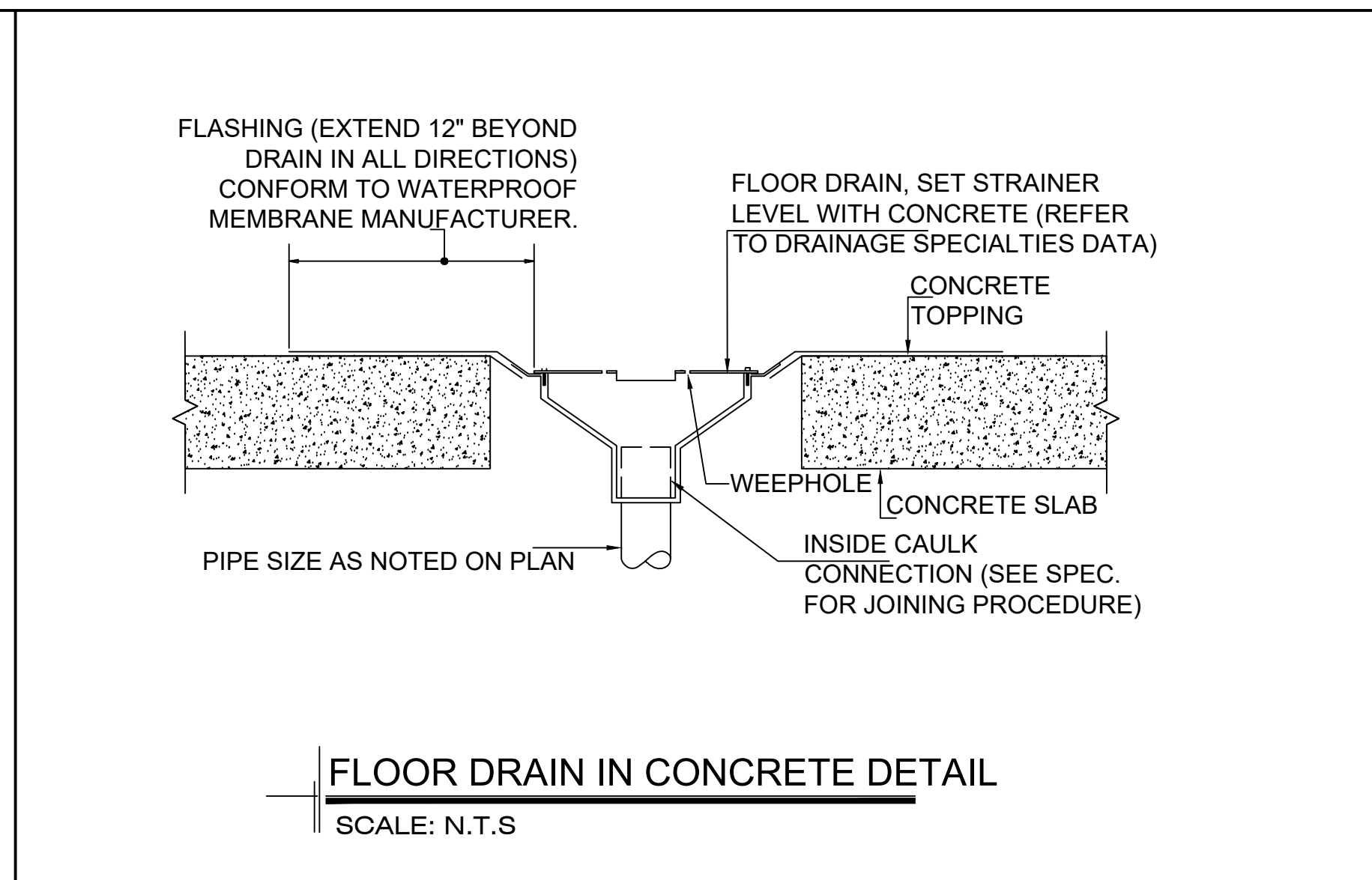
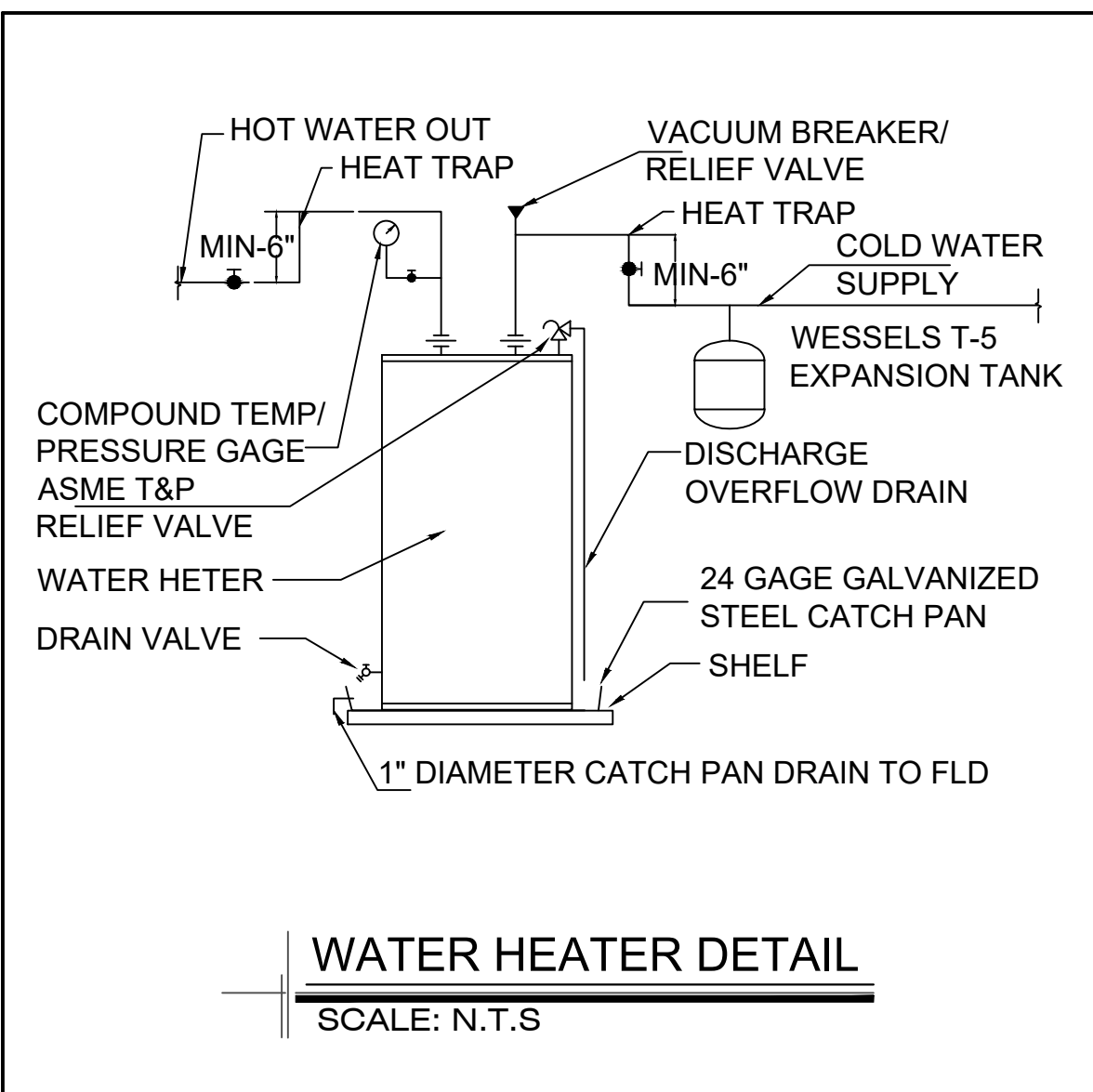


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P001 22-4006



REVISIONS	
NO.	DESCRIPTION
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PLUMBING EQUIPMENT SCHEDULES & DETAILS

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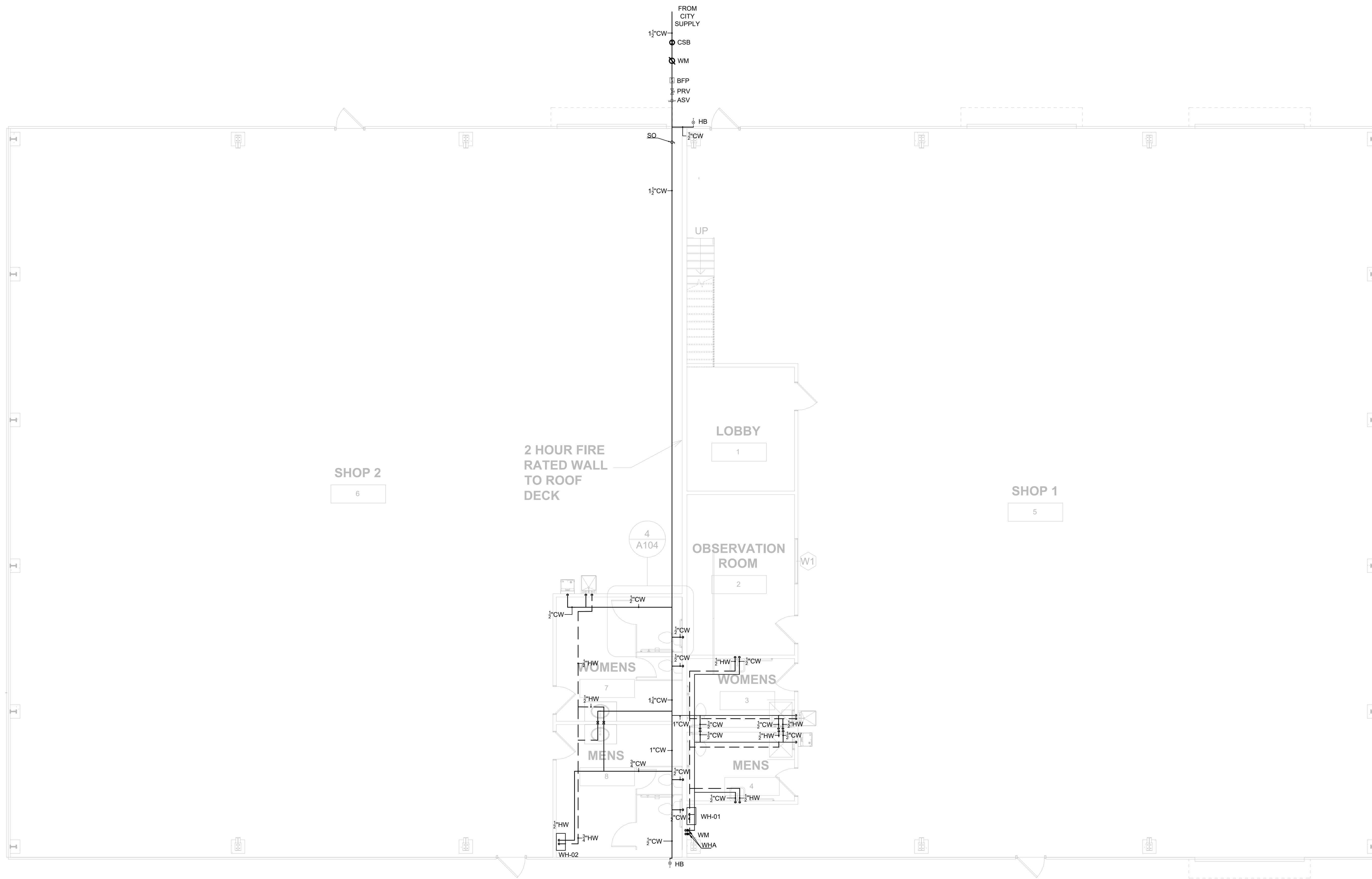


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P002	22-4006



1ST FLOOR WATER SUPPLY PLAN
SCALE 3/16" = 1'-0"

NOTE:
1. ALL WATER SUPPLY PIPES ARE TO BE RUN UNDERGROUND.

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PLUMBING FLOOR PLAN

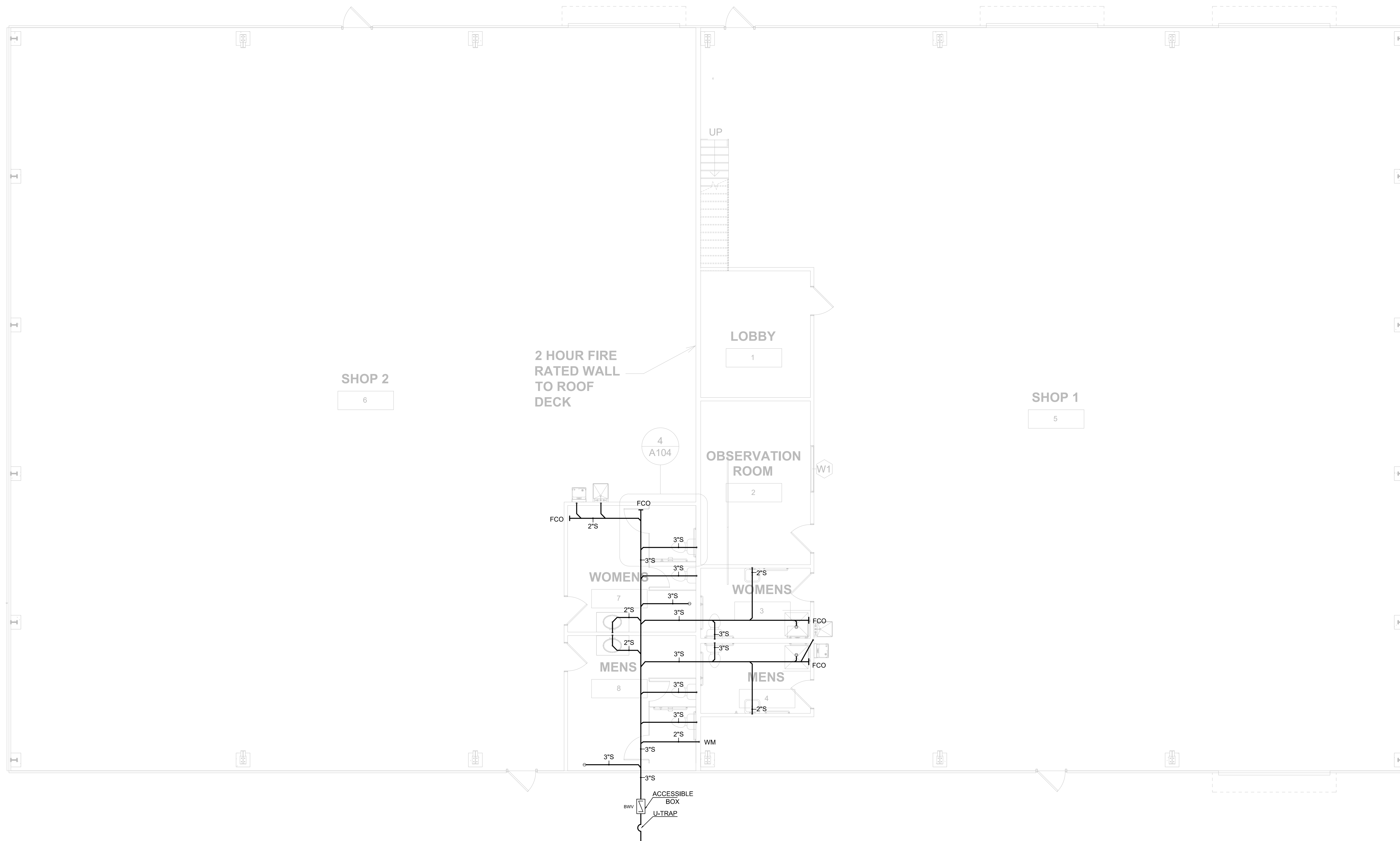
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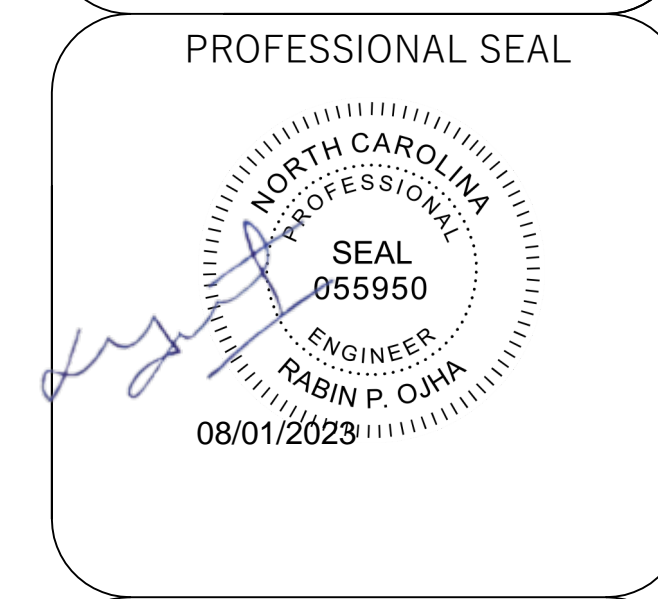
CONNECT THROUGH THE
NEAREST PATH TO
SEPTIC TANK

1ST FLOOR SANITARY PLAN
SCALE 3/16" = 1'-0"

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PLUMBING FLOOR PLAN

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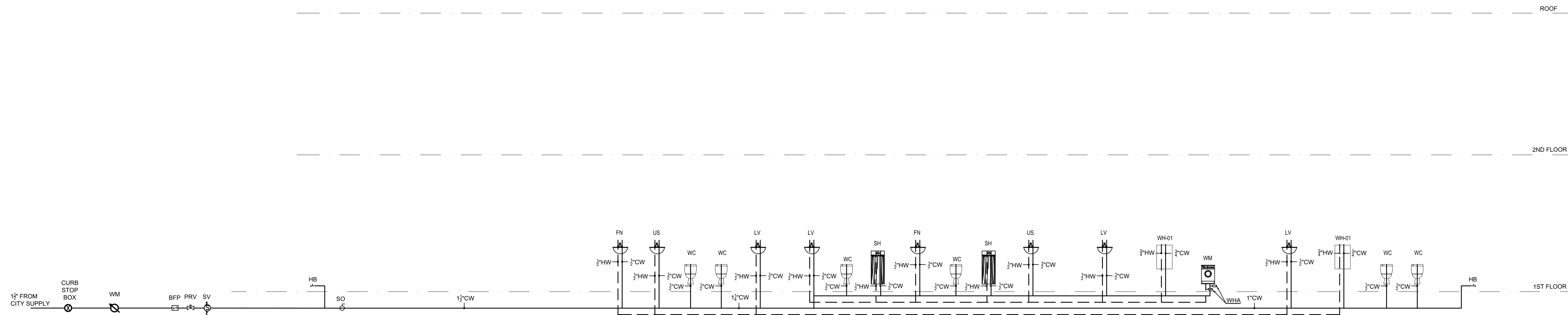


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P102	22-4006



- NOTE:
- 1 1/2" - 2" METER SETTER REQUIRED A METER VALVE ON EACH SIDE (NOT SHOWN IN DETAIL).
 - IF THE BUILDING OR APPROVED PROJECTION IS AT OR EXTENDS BEYOND THE PROPERTY LINE, THE CURD STOP SHALL BE PLACED 18 INCHES FROM FACE OF BUILDING OR APPROVED PROJECTION.
 - FOR NEW BUILDING CONSTRUCTION ONLY: THE FIRE SERVICE LINE SHALL INCLUDE A SHUT-OFF VALVE INSTALLED INSIDE THE BUILDING.
 - FOR NEW BUILDING CONSTRUCTION ONLY: THE DOMESTIC SERVICE LINE SHALL INCLUDE A PRESSURE REDUCING VALVE AND SHUT-OFF VALVE INSTALLED THE BUILDING.
 - SEE PLUMBING FLOOR PLANS FOR THE PIPE SIZE DETAILS.

WATER SUPPLY SCHEMATIC
SCALE: NTS

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0	07/26/2023	FOR SUBMITTALS
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WATER SUPPLY SCHEMATIC

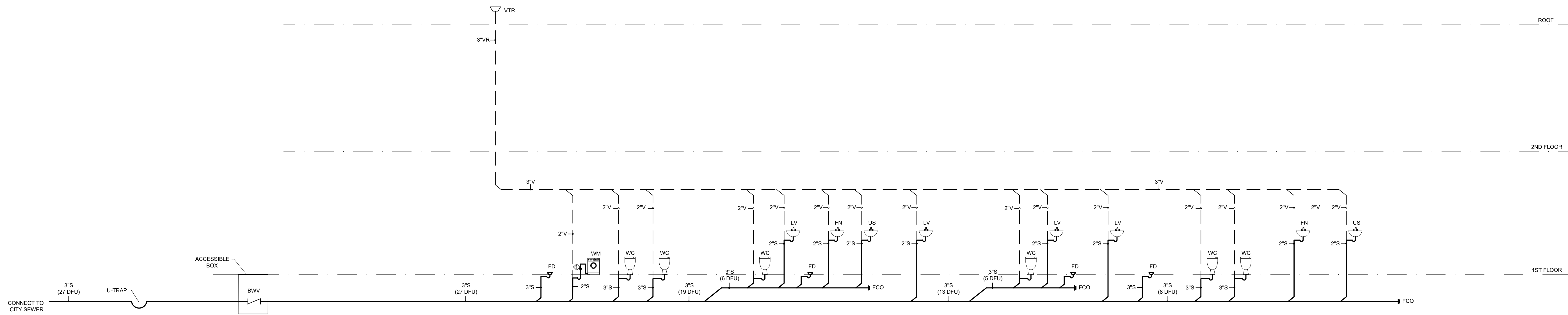
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EMAIL: INFO@EQUAGEN.COM

DRAWN BY:	ST
CHECKED BY:	MKC
DATE:	07/26/2023
SCALE:	AS SHOWN
P201	22-4006



- ◇ DRAWING NOTES:
 ◇ WASHING MACHINES DISCHARGING THROUGH AN AIR BREAK.

NOTES
 1. CLEAN OUTS SHALL BE ACCESSIBLE COORDINATE AT THE FIELD AND COORDINATE WITH ARCHITECTURAL PLANS PROVIDE REQUIRED ACCESS PANELS WHERE APPLICABLE.

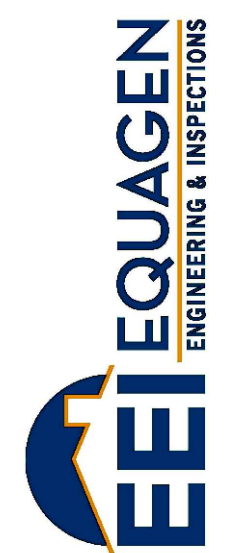
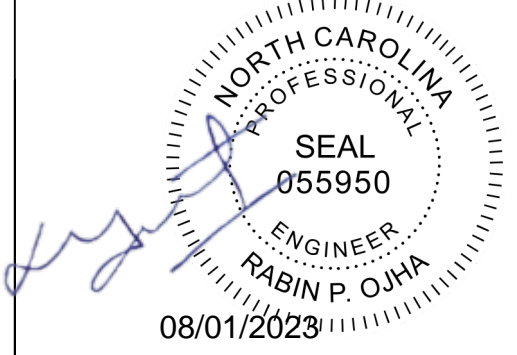
SANITARY SCHEMATIC
 SCALE: NTS

NO.	DATE	DESCRIPTIONS
0	07/26/2023	FOR SUBMITTALS
		REVISIONS

SANITARY SCHEMATIC

SITE ADDRESS:
2659 Hwy 87 S.
 Cameron, NC 28326

PROFESSIONAL SEAL



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P202 22-4006