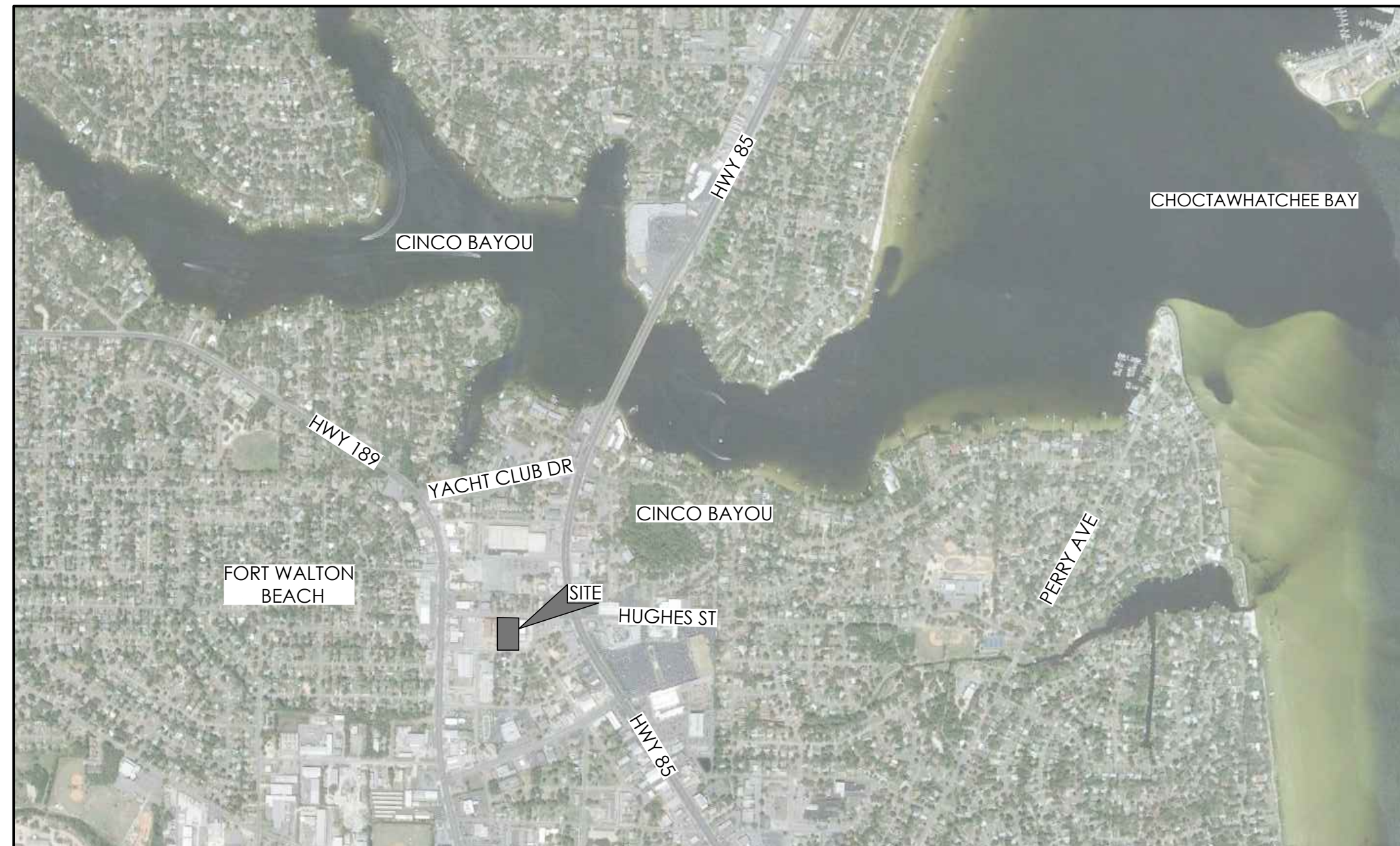


CONSTRUCTION PLANS FOR:

CITY OF FORT WALTON BEACH WELL NO. 2 MODIFICATIONS

12 HUGHES STREET NE
FORT WALTON BEACH, FLORIDA

VICINITY MAP (N.T.S.)



PREPARED FOR:



CITY OF FORT WALTON BEACH
107 MIRACLE STRIP PARKWAY SW
FORT WALTON BEACH, FL 32458

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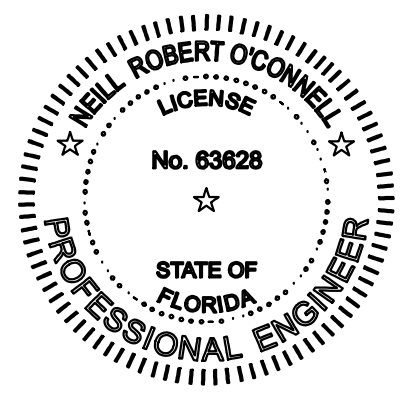
UTILITY PROVIDERS

WATER & SEWER PROVIDER:	CITY OF FORT WALTON BEACH CONTACT: MICHAEL BEEDIE PHONE: (850) 833-9613
ELECTRIC PROVIDER:	GULF POWER CONTACT: EDDIE THOMASON PHONE: (850) 833-4826
GAS PROVIDER:	OKALOOSA GAS DISTRICT 364 HIGHWAY 190 P.O. BOX 548 VALPARAISO, FL 32580
TV/CABLE PROVIDER:	COX COMMUNICATION CONTACT: JOHN ALLEN PHONE: (850) 314-8121 LINE SPOT: (850) 862-4144
TELEPHONE PROVIDER:	SPRINT SOUTHERN OPERATIONS CONTACT: BILL BELLAMY PHONE: (850) 664-3763

REFERENCE

OWNER:	CITY OF FORT WALTON BEACH 107 MIRACLE STRIP PARKWAY SW FORT WALTON BEACH, FL 32458
CIVIL ENGINEERS:	O'CONNELL & ASSOCIATES CONSULTING ENGINEERS, LLC 1394 SOUTH COUNTY ROAD 283, BUILDING 3 SANTA ROSA BEACH, FL 32459 850 403-4555

O'CONNELL & ASSOCIATES
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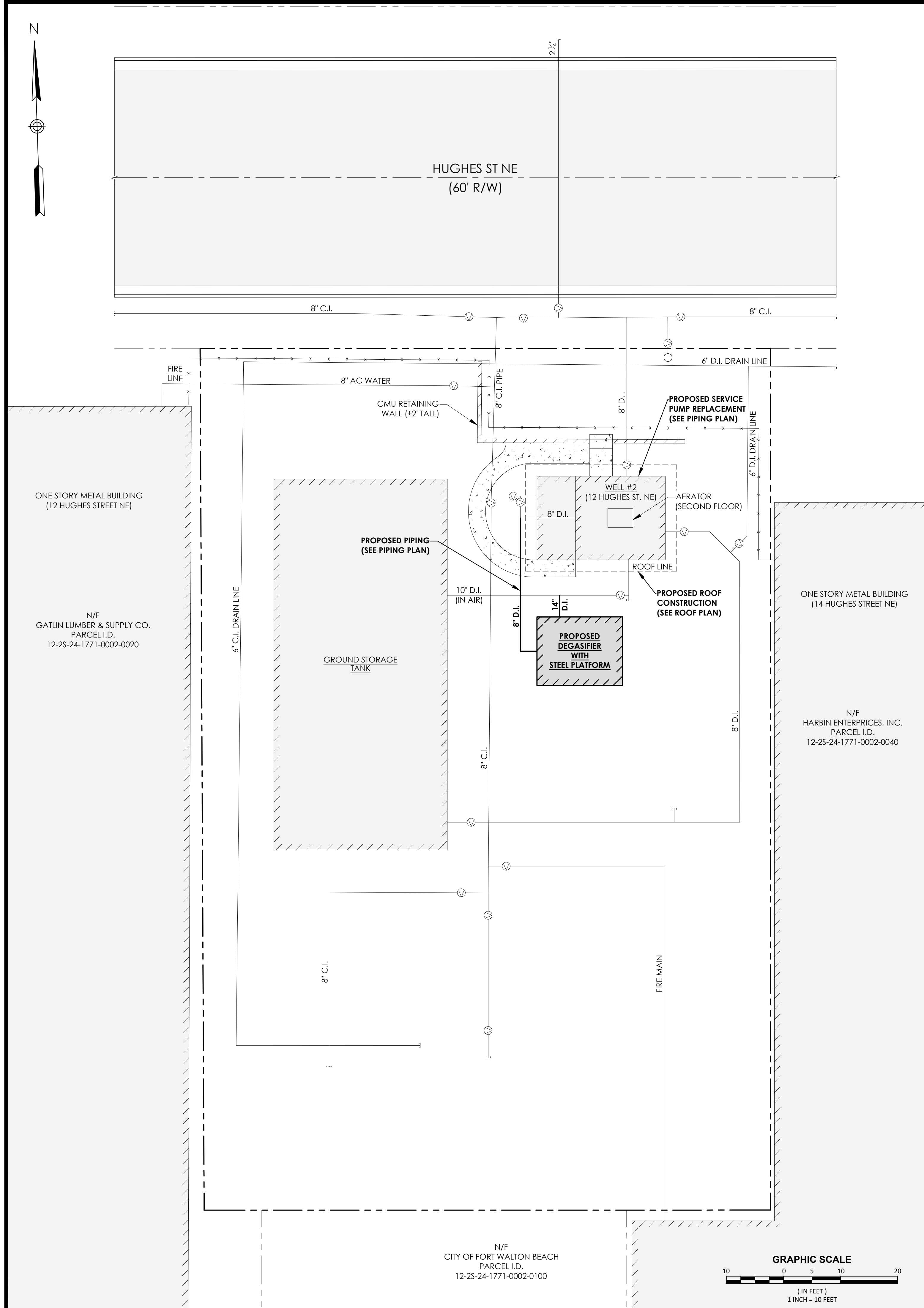
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: NEILL O'CONNELL, P.E.
ON: JANUARY 2, 2019
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CITY OF FORT WALTON BEACH
WELL NO. 2 MODIFICATIONS
12 HUGHES STREET NE
FORT WALTON BEACH, FLORIDA

REV. #	DATE	BY	DESCRIPTION	ISSUE	FOR REVIEW ONLY	DRAWN BY	CHECKED BY
16045	12/21/2018					LMD	NOC

TITLE:
COVER SHEET

SHEET No:
T101



LEGEND

	EXISTING	PROPOSED
STRUCTURE		
PAVED ROADWAY		
CONCRETE		
CURB & GUTTER		
DUCTILE IRON (D.I.) PIPE	8" D.I.	8" D.I.
CAST IRON (C.I.) PIPE	8" C.I.	
PROPERTY BOUNDARY		
PROPERTY LINE & R/W		
FENCE		
VALVE		
FIRE HYDRANT		
PLUG		

GENERAL NOTES:

- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND COMPLETELY FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO SUBMITTING A BID. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- WORK AREAS:** THE CONTRACTOR SHALL RESTRICT HIS OPERATIONS TO OWNER'S PROPERTY, EASEMENTS, AND PUBLIC RIGHT-OF-WAY UNLESS SPECIFIC AUTHORIZATION HAS BEEN OBTAINED BY THE CONTRACTOR, IN WRITING, FROM PROPERTY OWNERS FOR THE USE OF PRIVATE LAND.
- PROTECTION OF PUBLIC WATER SUPPLY:** THE WORK REQUIRES CONTRACTOR OPERATIONS UPON AN OPERATING PUBLIC WATER SYSTEM. TAKE EXTREME CARE TO AVOID UNNECESSARY INTERFERENCE WITH THESE FACILITIES OR CONTAMINATION OF THE WATER SYSTEM. COORDINATE ACTIVITIES WITH THE OWNER'S PERSONNEL TO AVOID SERVICE INTERRUPTION. SHOULD INTERFERENCE WITH THE UTILITIES OCCUR AS A RESULT OF THE CONTRACTOR'S OPERATIONS, DEVOTE FULL EFFORTS TO CORRECTING THE PROBLEM WITHOUT DELAY.
- OWNER OCCUPANCY:** THE OWNER RESERVES THE RIGHT TO OCCUPY PARTIALLY COMPLETED PARTS OF THE WORK PRIOR TO SUBSTANTIAL COMPLETION, PROVIDED THAT SUCH OCCUPANCY DOES NOT INTERFERE WITH COMPLETION OF WORK. SUCH PARTIAL OCCUPANCY SHALL NOT CONSTITUTE ACCEPTANCE OF THE WORK OR ANY PART OF THE WORK.
- COORDINATION:** THE WORK OF THIS CONTRACT INCLUDES COORDINATION OF THE WORK WITH THE WORK OF OTHER CONTRACTORS, PUBLIC UTILITIES, AND THE OWNER, FROM BEGINNING OF CONSTRUCTION ACTIVITY THROUGH PROJECT CLOSE-OUT AND WARRANTY PERIODS.
- CHANGES IN THE WORK:** THE OWNER RESERVES THE RIGHT TO CHANGE PLANNED LOCATIONS OF THE WORK DURING CONSTRUCTION TO AVOID INTERFERENCES OR OBSTRUCTIONS. FIELD CHANGES OF PLANNED LOCATIONS SHALL BE MADE ONLY WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALL UTILITY CONFLICTS AND REQUEST DIRECTION AS TO HOW THE CONFLICTS WILL BE RESOLVED.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- ALL WORK SHALL BE COMPLETED IN DRY CONDITIONS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF FORT WALTON BEACH STANDARDS FOR CONSTRUCTION.
- CONTRACTORS SHALL MAINTAIN PUBLIC ACCESS ALONG ALL PUBLIC RIGHT-OF-WAYS.
- NO PARKING OR UNLOADING OF MATERIALS SHALL OCCUR WITHIN PUBLIC RIGHT-OF-WAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES TO THE PUBLIC RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN ITS PREVIOUS CONDITION. DISTURBED AREAS ARE TO BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE. DITCH/SWALE SIDE SLOPES STEEPER THAN 1 UNIT VERTICAL TO 3 UNITS HORIZONTAL ARE TO BE SODDED AND THE SOD IS TO BE PINNED. STABILIZATION IS TO BE PERFORMED IMMEDIATELY FOLLOWING FORCE MAIN CONSTRUCTION. RIGHT-OF-WAY RESTORATION MUST NOT LAG CONSTRUCTION BY MORE THAN 14 DAYS.
- THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS AND GUARDS PER F.D.O.T. INDEX NUMBERS 611 AND 612 DURING PROGRESS OF CONSTRUCTION WORK AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.
- THE CONTRACTOR SHALL PROVIDE EROSION CONTROL PER F.D.O.T. INDEX 102 TO PREVENT EROSION RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION.
- DESIGNATION "RESTORE" ON PLANS MEANS RECONSTRUCT WITH LIKE MATERIALS EQUAL TO OR BETTER THAN EXISTING CONDITIONS, AND INCLUDES SEEDING AND MULCHING OR SODDING.
- CONTRACTOR TO RESTORE ALL DISTURBED RIGHTS-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN ITS PREVIOUS CONDITION. DISTURBED AREAS ARE TO BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE. DITCH/SWALE SIDE SLOPES STEEPER THAN 1 UNIT VERTICAL TO 3 UNITS HORIZONTAL ARE TO BE SODDED AND THE SOD IS TO BE PINNED. STABILIZATION IS TO BE PERFORMED IMMEDIATELY FOLLOWING FORCE MAIN CONSTRUCTION. RIGHT-OF-WAY RESTORATION MUST NOT LAG CONSTRUCTION BY MORE THAN 14 DAYS.
- GARBAGE AND WASTE REMOVAL TO BE PROVIDED BY PRIVATE SERVICE.
- ALL EXPOSED FERROUS METAL SHALL BE PAINTED WITH 2 COATS OF EXTERIOR ENAMEL PAINT.

WATER DISTRIBUTION SYSTEM NOTES:

- ALL MATERIALS SHALL BE FREE FROM DEFECTS IMPAIRING STRENGTH AND DURABILITY AND SHALL BE THE BEST OF COMMERCIAL QUALITY FOR THE PURPOSE SPECIFIED. MATERIALS HAVE STRUCTURAL PROPERTIES SUFFICIENT TO SAFELY SUSTAIN OR WITHSTAND STRAINS AND STRESSES TO WHICH IT IS NORMALLY SUBJECTED AND BE TRUE TO DETAIL. ALL PIPE AND FITTINGS WILL BE CLEARLY MARKED WITH THE NAME OR TRADEMARK OF THE MANUFACTURER, THE BATCH NUMBER, THE LOCATION OF THE PLANT, AND STRENGTH DESIGNATION, ETC.
- PRODUCTS:** PROVIDE ELBOWS, TEES, REDUCING TEES, WYES, COUPLINGS, AND OTHER REQUIRED PIPING ACCESSORIES OF SAME TYPE AND CLASS OF MATERIALS AS CONDUIT, OR OF MATERIAL HAVING EQUAL OR SUPERIOR PHYSICAL AND CHEMICAL PROPERTIES AS ACCEPTABLE TO ENGINEER.
 - DUCTILE IRON (D.I.) PIPE:** PIPE SHALL CONFORM TO REQUIREMENTS OF AWWA-C151. THE PIPE WILL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA-C104 STANDARD THICKNESS.
 - UNLESS OTHERWISE INDICATED, THE PIPE WILL HAVE PUSH-ON COMPRESSION TYPE JOINTS CONFORMING TO AWWA-C111.
 - UNLESS SHOWN OTHERWISE ON THE DRAWINGS, DIP WILL BE OF THE THICKNESS CLASS 50.
 - DUCTILE IRON FITTINGS:** FITTINGS SHALL CONFORM TO REQUIREMENTS OF AWWA-C153 FOR PIPE THROUGH 16 IN. AND TO AWWA-C110 FOR PIPE LONGER THAN 16 IN. ALL FITTINGS SHALL BE PRESSURE RATING 350 PSI.
 - PIPE SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA-C104.
 - JOINTS SHALL CONFORM TO AWWA-C111.
 - ALL BELOW GRADE FITTINGS SHALL BE MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. FLANGES SHALL BE FACTORY THREADED OR WELDED ONLY. FLANGE ADAPTORS ARE NOT PERMITTED.
- GATE VALVES:** STANDARD SHUT-OFF VALVES WITH MAXIMUM WORK PRESSURE CAST INTO BODY, OUTSIDE-SCREW-AND-YOKE TYPE COMPLYING WITH AWWA C-500. ALL VALVES SHALL BE COUNTERCLOCKWISE. MINIMUM WORK PRESSURE SHALL BE 160 PSI, UNLESS OTHERWISE INDICATED.
 - FOUR-INCHES AND OVER: SHALL BE CAST-IRON BODY, FULL BRONZE MOUNTED DOUBLE-DISC, PARALLEL SEAL VALVES WIDE FLANGE OR SPIGOT END DEPENDING ON INSTALLATION.
 - FLANGED GATE VALVES SHALL BE PROVIDED WITH 125 POUND AMERICAN STANDARD FLANGES.
 - ALL VALVES TO BE SET ABOVE GROUND SHALL BE FITTED WITH WHEEL-TYPE HAND OPERATORS.
 - ALL VALVES TO BE SET BELOW GROUND SHALL BE FITTED WITH HUB-TYPE OPERATORS AND SHALL HAVE A CAT-IRON VALVE BOX INSTALLED CONCENTRICALLY OVER THE VALVE.
 - UNDER FOUR INCHES: GATE VALVES UNDER FOUR INCHES SHALL BE IRON OR BRONZE BODY, SOLID WEDGE VALVES EQUIPPED WITH OPERATING HAND WHEELS.
 - ALL ECCENTRIC VALVES 10 INCHES OR LARGER SHALL BE GEAR OPERATED WITH HAND WHEELS FOR ABOVE GROUND VALVES AND HUB OPERATED FOR BELOW GROUND VALVES.
 - ALL ECCENTRIC VALVES 8 INCHES AND SMALLER SHALL BE LEVEL OPERATED FOR ABOVE GROUND VALVES AND HUB OPERATED FOR BELOW GROUND VALVES.
 - ALL HUB OPERATED UNITS SHALL BE PROVIDED A CAST-IRON VALVES BOX AND COVER.
- CHECK VALVES:** CHECK VALVES OVER THREE INCHES SHALL BE IRON BODY, BRONZE MOUNTED, HORIZONTAL SWING CHECK WITH FLANGED ENDS. ALL WORK PARTS SHALL BE SPRING LOCATED TO PREVENT SLAMMING. CHECK VALVES SHALL BE CLOW F-2955, OR APPROVED EQUAL.
- ANCHORAGE:** PROVIDE REACTION BLOCKING FOR ALL PLUGS, CAPS, TEES, BENDS, AND VALVES UNLESS OTHERWISE SPECIFIED. REACTION BLOCKING SHALL BE CONCRETE OF A MIX NOT LEANER THAN 1 PART CEMENT TO 2-1/2 PARTS SAND AND 5 PARTS STONE, AND HAVING A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 PSI AFTER 28 DAYS. BLOCKING SHALL BE PLACED BETWEEN SOLID, UNEXCAVATED EARTH AND THE FITTING TO BE ANCHORED; THE AREA OF BEARING ON THE PIPE AND ON THE GROUND SHALL BE THAT SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. THE BLOCKING SHALL, UNLESS OTHERWISE SHOWN OR DIRECTED, BE SO PLACED THAT THE PIPE AND FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR. METAL HARNESS OF THE RODS OR CLAMPS OF ADEQUATE STRENGTH TO PREVENT MOVEMENT MAY BE USED INSTEAD OF CONCRETE BLOCKING IF APPROVED BY THE ENGINEER. STEEL RODS OR CLAMPS SHALL BE GALVANIZED.
- COATINGS:**
 - ALL ABOVE GRADE DUCTILE IRON PIPE, VALVES AND FITTINGS SHALL BE COATED WITH TWO (2) PRIMER COATS OF TNEPEC SERIES N140 POXA POX PLUS, 4.0-6.0 MILS MINIMUM; AND ONE (1) FINISH COAT OF TNEPEC SERIES 73 ENDURA SHIELD, 2.0-3.0 MILS MINIMUM; OR AN APPROVED EQUAL COATING SYSTEM. COATINGS SHALL BE APPLIED IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
 - AFTER INSTALLATION, APPLY A FULL COAT OF ASPHALT OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL TO SURFACES OF RODS AND CLAMPS, CLAMPS, STRAPS AND WASHERS.
- INSPECTION AND HYDROSTATIC TESTING:** AFTER THE PIPE HAS BEEN LAID AND BACKFILLED AS SPECIFIED, EACH VALVE SECTION OF NEWLY LAID PIPE SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE OF 150 PSI. THE DURATION OF EACH PRESSURE TEST SHALL BE AT LEAST TWO HOURS OR UNTIL THE LEAK HAS BEEN COMPLETELY INSPECTED FOR VISIBLE LEAKS.
 - PERMISSIBLE LEAKAGE: NO PIPE INSTALLATION WILL BE ACCEPTABLE UNTIL OR UNLESS THIS LEAKAGE (EVALUATED ON A PRESSURE BASIS OF 150 PSI) IS LESS THAN 4 U.S. GALLONS PER 24 HOURS PER THOUSAND FEET PER INCH NOMINAL DIAMETER IN ACCORDANCE WITH AWWA C600.
 - DISINFECTION SHALL BE AFTER THE DISTRIBUTION SYSTEM HAS BEEN TESTED TO THE SATISFACTION OF THE ENGINEER AND SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATION C-601 WHICH PROVIDES FOR THE INJECTION OF A 50 PPM SOLUTION OF CHLORINE REMAINING FOR 24 HOURS, IN THE PROCESS OF CHLORINATING WATER PIPE, ALL VALVES OR OTHER APPURTENANCES SHALL BE OPERATED WHILE THE PIPE LINE IS FILLED WITH CHLORINATING AGENT.

SUBMITTAL REQUIREMENTS:

- THESE NOTES COVER ADDITIONAL REQUIREMENTS FOR SUBMITTALS, IS SUPPLEMENTARY TO THE GENERAL CONDITIONS, AND FORMS A PART OF ALL ITEMS IN WHICH SUBMITTALS ARE SPECIFIED OR REQUIRED. SUBMITTAL REQUIREMENTS INCLUDED ARE:
 - SHOP DRAWINGS;
 - MATERIAL LISTS AND EQUIPMENT DATA;
 - INSTRUCTION MANUALS;
 - FACTORY TEST REPORTS;
 - CERTIFICATES; AND
 - SAMPLES.
- SUBMITTALS REQUIREMENTS:**
 - INITIAL SUBMITTALS: UNLESS OTHERWISE SPECIFIED, SUBMIT AT LEAST 4 COPIES (INCLUDES ONLY 1 FOR RETURN TO CONTRACTOR) OF INITIAL SUBMITTALS WITHIN 45 DAYS AFTER ISSUANCE OF THE NOTICE TO PROCEED.
 - RESUBMITTALS: THE CONTRACTOR WILL BE NOTIFIED IN WRITING OF REQUIRED CORRECTIONS OR OF REJECTED SUBMITTALS, AND SHALL SUBMIT NEW OR CORRECTED SUBMITTALS WITHIN 15 DAYS AFTER THE NOTICE DATE UNTIL SATISFACTORY REVIEW. FOR MATERIALS LISTS, EQUIPMENT DATA, AND INSTRUCTION MANUALS, THE NOTICE MAY STATE ONLY THE DISAPPROVED ITEMS, IN WHICH CASE THE CONTRACTOR SHALL SUBMIT PROPOSED REPLACEMENTS WITHIN THE SAME TIME LIMITS. PROPOSED REPLACEMENTS NEED NOT BE BOUND, BUT THE CONTRACTOR'S TRANSMITTAL SHALL IDENTIFY EACH DISAPPROVED ITEM AND THE PROPOSED REPLACEMENT ITEM, WHEN NOTIFIED IN WRITING OF SATISFACTORY REPLACEMENTS, THE CONTRACTOR SHALL SUBMIT SUFFICIENT COPIES OF EACH TO COMPLETE THE INITIAL SUBMITTALS.
- SHOP DRAWINGS:**
 - TITLE BLOCK AND IDENTIFICATION: ON EACH SHOP DRAWING, PROVIDE A SPACE FOR THE ENGINEER'S APPROVAL OR CORRECTION STAMP AND A COMPLETE TITLE BLOCK IDENTIFYING THE WORK; CONTRACTOR; SUBCONTRACTOR; MANUFACTURER OR SUPPLIER; DATE, SCALE OF DRAWINGS, AND IDENTIFICATION NUMBER; AND CONTRACTOR'S REVIEW AND APPROVAL STAMP.
 - PREPARATION AND SIZE: DETAILS AND INFORMATION SHALL BE CLEARLY DRAWN, DIMENSIONED, NOTED, AND CROSS REFERENCED, UNLESS OTHERWISE APPROVED. PREPARE SHOP DRAWINGS OF THE SAME SIZE AS THE CONTRACT DRAWINGS, ON 11" X 17" SHEETS, OR 9-1/2" X 11" SHEETS, AS APPLICABLE.
 - DATA: SUBMIT WITH THE SHOP DRAWINGS COMPLETE CATALOG AND TECHNICAL DATA FOR THE MANUFACTURED PRODUCTS, MATERIALS, MACHINERY, AND EQUIPMENT COVERED BY THE SHOP DRAWING SUBMITTAL. INCLUDE DATA SHOWING FOR EACH ITEM, AS APPLICABLE, THE FOLLOWING INFORMATION:
 - MANUFACTURER'S SPECIFICATIONS AND DETAILS.
 - APPLICABLE TECHNICAL DATA AND PERFORMANCE CURVES.
 - PREPARATION, ASSEMBLY, AND INSTALLATION INSTRUCTIONS WITH ALLOWABLE TOLERANCES.
 - PRE-START-UP SERVICING AND OPERATING METHODS.
 - OTHER DATA AND INFORMATION NECESSARY TO DEMONSTRATE THAT THE PROPOSED ITEMS CONFORM TO THE CONTRACT DOCUMENTS.
 - INFORMATION REQUIRED: SHOP DRAWINGS SHALL CONTAIN DETAILS AND INFORMATION FULLY DEVELOPING THE PERTAINING CONTRACT DOCUMENT REQUIREMENTS AND SUCH OTHER INFORMATION AS MAY BE SPECIFIED OR REQUIRED FOR REVIEW, INCLUDING BUT NOT LIMITED TO:
 - DIMENSIONS INCLUDING VARIATIONS BETWEEN INDICATED DIMENSIONS AND ACTUAL CONDITIONS.
 - PHYSICAL CONFIGURATIONS WITH CRITICAL DIMENSIONS FOR CLEARANCE, ACCESS, AND SERVICING.
 - GROUTING WORK, INCLUDING GROUTING SPACE AND MATERIAL.
 - CONCRETE FOUNDATIONS AND BASES FOR MACHINERY AND EQUIPMENT INCLUDING JOINTS, JOINT FILLER AND SEALER, AND REINFORCING.
 - ANCHOR BOLT DETAILS SHOWING TYPE AND CLASS, SIZES, EMBEDMENTS, PROJECTIONS, AND LOCATIONS MEASURED WITH RESPECT TO PERMANENT STRUCTURAL FEATURES.
 - SURFACE PREPARATION PROTECTIVE COATINGS, AND FACTORY FINISHES FULLY DESCRIBED. THE TERM "AS SPECIFIED" IS NOT ACCEPTABLE FOR THIS PURPOSE.
 - MACHINERY AND EQUIPMENT DETAILS. INDICATE AND DETAIL SIZES, SUPPORTS, AND CONNECTIONS.
 - AUXILIARY ITEMS THAT ARE PARTS OF MACHINERY AND EQUIPMENT.
 - PIPING SYSTEMS AND PIPING INCLUDING LAYOUT, FITTINGS, VALVES, APPURTENANCES, HANGERS AND SUPPORTS, AND SLEEVES.
 - ELECTRICAL EQUIPMENT DETAILS.
 - FULL-SIZE LETTERING LAYOUTS FOR DATA PLATE AND NAMEPLATE INSCRIPTIONS.
 - CLEARANCES: DO NOT PROCEED WITH ANY RELATED WORK THAT MAY BE AFFECTED BY PIPING, MACHINERY, EQUIPMENT, OR OTHER WORK THEREIN UNTIL SHOP DRAWINGS AND DATA SHOWING ALL COMPONENTS WITH ACCEPTABLE CLEARANCES HAVE BEEN REVIEWED WITH NO EXCEPTIONS TAKEN.
- SAMPLES:** IF SAMPLES ARE REQUIRED, SUBMIT AT LEAST 60 DAYS PRIOR TO START OF OPERATIONS INVOLVING MATERIAL SAMPLED. LABEL OR TAG EACH SAMPLE OR SET OF SAMPLES IDENTIFYING THE MANUFACTURER'S NAME AND ADDRESS, BRAND NAME, CATALOG NUMBER, PROJECT TITLE, AND INTENDED USE. FOR ITEMS REQUIRED TO BE OF SELECTED AND APPROVED COLORS, PATTERNS, TEXTURES, OR OTHER FINISH, SUBMIT SUFFICIENT SAMPLES TO SHOW THE RANGE OF SHADES, TONES, VALUES, PATTERNS, TEXTURES, OR OTHER FEATURES CORRESPONDING TO THE INSTRUCTIONS AND REQUIREMENTS SPECIFIED.
- LIMITATIONS OF ENGINEER'S RESPONSIBILITY:** REVIEW OF CONTRACTOR'S SUBMITTALS WILL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; AND FOR COORDINATING HIS WORK WITH THAT OF ALL TRADES.

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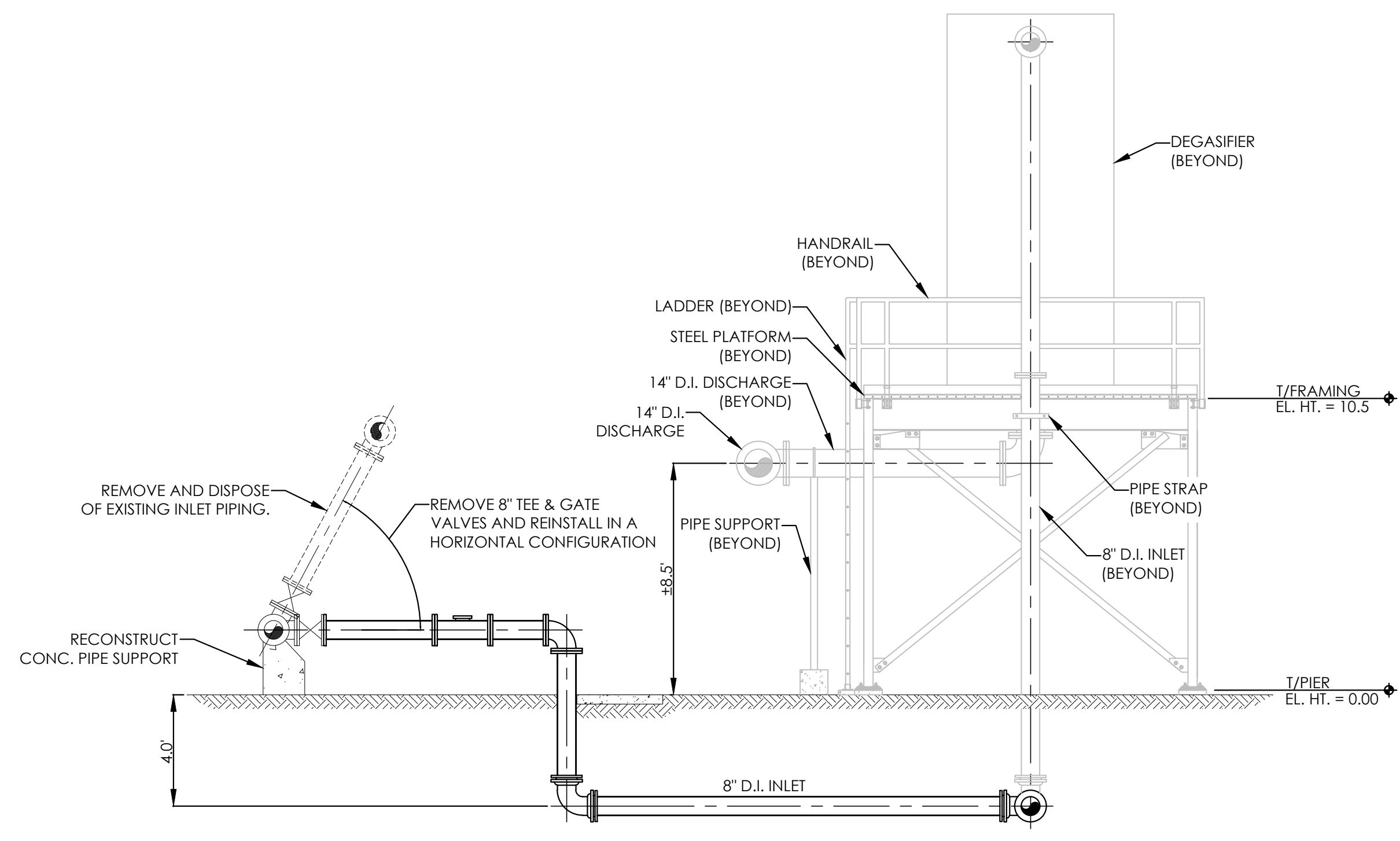
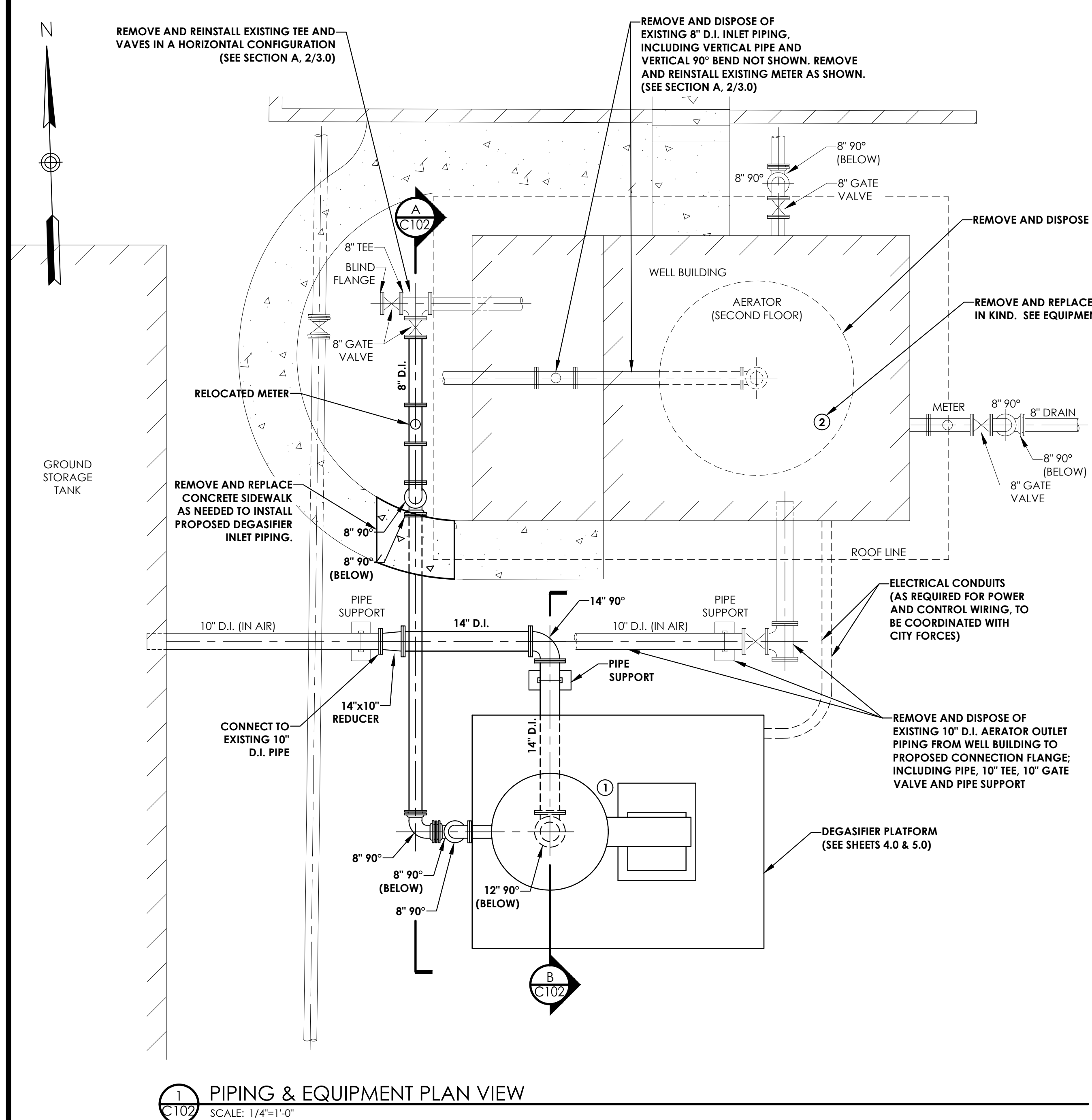
PROFESSIONAL ENGINEER
No. 63628
STATE OF FLORIDA

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ON: JANUARY 2, 2019
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CITY OF FORT WALTON BEACH
WELL NO. 2 MODIFICATIONS
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REV. #	DATE	BY:	DESCRIPTION:	ISSUE:	FOR REVIEW ONLY	DRAWN BY:	CHECKED BY:
16045	12/21/2018			LMD	NOCC		

TITLE: **SITE PLAN**
SHEET NO: **C101**



1 PIPING & EQUIPMENT PLAN VIEW
SCALE: 1/4"=1'-0"

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

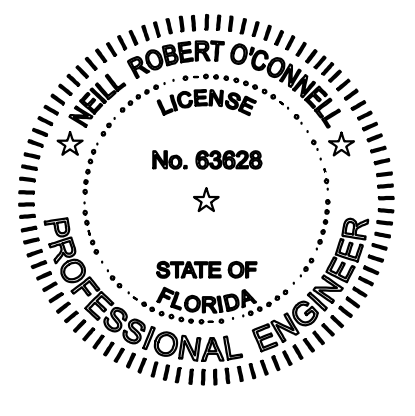
3 SECTION B
SCALE: 1/4"=1'-0"

EQUIPMENT LEGEND AND NOTES:

1. **DEGASIFICATION EQUIPMENT:** SHALL INCLUDE ONE (1) FORCED DRAFT DEGASIFICATION UNIT INCLUDING FIBERGLASS VESSEL, CENTRIFUGAL TYPE BLOWER, WATER SEPARATION DEMISTER, EXHAUST STACK AND ALL RELATED APPURTENANCES FOR A COMPLETE AND PROPERLY OPERATING DEGASIFICATION SYSTEM. THE SYSTEM SHALL BE EQUAL TO THOSE MANUFACTURED BY DELOACH INDUSTRIES, INC. OF SARASOTA, FLORIDA.
- A. THE SYSTEM SHALL PROVIDE A MINIMUM 97% REMOVAL OF HYDROGEN SULFIDE (H₂S) WITH THE FOLLOWING INFLUENT WATER CHARACTERISTICS:
1. HYDROGEN SULFIDE (H₂S) CONCENTRATION RANGE: 0.3 - 2.0 mg/L
 2. MAXIMUM RAW PUMPING RATE: 750 gpm
 3. pH RANGE: 8.0 - 8.5
- B. FIBERGLASS VESSEL: EXTERIOR SHALL BE CONTACT MOLDED TO REFLECT A SMOOTH SURFACE AND INCLUDE A GELCOAT FINISH. THE VESSEL SHALL INCLUDE FRP REINFORCING RIBS FOR STRUCTURAL SUPPORT. THE INTERIOR SHALL BE SEALED WITH A NSF APPROVED LINER. THE VESSEL SHALL INCLUDE AN ACCESS DOOR WITH 316 STAINLESS STEEL HARDWARE, TWO (2) LIFTING LUGS, AND A CLEAN-OUT DRAIN WITH PLUG.
- C. EXHAUST SYSTEM: SHALL INCLUDE ONE (1) EXHAUST STACK WITH 316 STAINLESS STEEL SCREEN AND EQUIPED WITH ONE (1) WATER SEPARATION DEMISTER. THE WATER SEPARATION DEMISTER SHALL BE MUNTERS MODEL T-271 OR APPROVED EQUAL.
- D. BLOWER: SHALL BE 5 HP (MIN), CENTRIFUGAL TYPE BLOWER EQUAL TO THOSE MANUFACTURED BY LOREN COOK CO. OR THE NEW YORK BLOWER CO.
- E. QUALITY ASSURANCE: SUBMIT EVIDENCE THAT SIMILAR EQUIPMENT FROM THE MANUFACTURER HAS BEEN IN OPERATION FOR NOT LESS THAN THREE YEARS OR PROVIDE A BOND COVERING THE COST OF REMOVAL AND REPLACEMENT SHOULD THE EQUIPMENT FAIL TO PERFORM IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION.
- F. SUBMITTALS: PRIOR TO SHIPMENT, SUBMIT MANUFACTURER'S DATA FOR ALL EQUIPMENT AND MATERIALS FOR APPROVAL, INCLUDING THE FOLLOWING:
1. GENERAL ARRANGEMENTS, DIMENSIONS, AND MOUNTING DETAILS.
 2. INSTALLATION, START-UP AND OPERATING INSTRUCTIONS.
 3. ROUTINE MAINTENANCE INSTRUCTIONS AND SPECIFICATIONS.
 4. LIST OF RECOMMENDED SPARE PARTS.
 5. MANUFACTURER'S PROTECTIVE COATING SYSTEM.
 6. ELECTRICAL REQUIREMENTS.
- H. DELIVERY, STORAGE, AND HANDLING: UNLOAD ALL EQUIPMENT CAREFULLY AND STORE IN A SAFE ENVIRONMENT UNTIL READY TO INSTALL. PROTECT PARTS AND EQUIPMENT FROM WEATHER OR PHYSICAL DAMAGE.
- I. WARRANTY: THE EQUIPMENT SHALL BE FULLY WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. WARRANTY SHALL COVER ALL COSTS OF REPAIRS, INCLUDING PARTS, LABOR, TRANSPORTATION, AND FIELD SERVICES.
- J. FIELD SERVICES AND TESTING:
1. PROVIDE SERVICES OF TRAINED FACTORY REPRESENTATIVE FOR A MINIMUM OF ONE DAY TO APPROVE INSTALLATION AND SUPERVISE INITIAL OPERATION.
 2. PROVIDE AT LEAST 7 DAYS NOTICE TO OWNER PRIOR TO START-UP.

2. **HORIZONTAL, SPLIT CASE CENTRIFUGAL PUMP:** SHALL INCLUDE PROVIDING ALL EQUIPMENT, LABOR, MATERIALS, SERVICES, TOOLS AND INCIDENTALS NECESSARY TO FURNISH, INSTALL, TEST AND PLACE INTO OPERATION ONE (1) HORIZONTAL, SPLIT CASE, CENTRIFUGAL PUMP FOR POTABLE WATER SERVICE AS SHOWN AND SPECIFIED HEREIN.
- A. PRODUCTS:
1. GENERAL: PUMP SHALL BE A HORIZONTAL, SPLIT CASE, CENTRIFUGAL PUMP, MODEL 5062, SIZE 4 X 3 X 14 AS MANUFACTURED BY CRANE DEMING PUMPS, OR APPROVED EQUAL.
 2. OPERATING CHARACTERISTICS: THE PUMP SHALL MATCH THE FOLLOWING OPERATING CONDITIONS:
 - 2.1. CAPACITY: 680 U.S. GALLONS PER MINUTE
 - 2.2. TOTAL HEAD: 160 FEET OF WATER
 - 2.3. NOMINAL SPEED: 1750 RPM
 - 2.4. MINIMUM PUMP EFFICIENCY AT DESIGN POINT: 65%
 - 2.5. MINIMUM SHUT-OFF HEAD: 200 FEET OF WATER
 - 2.6. MINIMUM MOTOR SIZE: 40 HP
 3. MOTOR: OPEN DRIP-PROOF TYPE, NEMA FRAME, 230/460 VOLT, 3 PHASE, 60 HZ, 1770 RPM, MANUFACTURED IN THE UNITED STATES BY A COMPANY REGULARLY ENGAGED IN THE MANUFACTURING OF MOTORS FOR PUMPS.
 - 3.1. HORSEPOWER: MINIMUM HP AS SPECIFIED UNDER OPERATING CHARACTERISTICS, NON-OVERLOADING OVER THE FULL OPERATING CURVE OF THE PUMP, WITH 1.15 SERVICE FACTOR.
 - 3.2. TEMPERATURE RISE: 80° OVER 40° AMBIENT, MEASURED BY RESISTANCE.
 4. SUBMITTALS: PRIOR TO SHIPMENT, SUBMIT FOR APPROVAL THE FOLLOWING INFORMATION:
 - 4.1. SHOP AND INSTALLATION DRAWINGS, COMPLETE WITH PARTS AND MATERIALS LIST, ANCHOR BOLT AND MOUNTING DETAILS, ELECTRICAL REQUIREMENTS, MOTOR DATA AND CONNECTIONS TO ACCESSORY EQUIPMENT.
 - 4.2. CERTIFIED PERFORMANCE CURVES AS DERIVED FROM TESTS OF SIMILAR PUMPS CONDUCTED UNDER COMMERCIAL LABORATORY PROCEDURES. PERFORMANCE CURVES SHALL SHOW CAPACITY, TOTAL HEAD, EFFICIENCY AND BREAK HORSEPOWER OVER THE ENTIRE PERFORMANCE RANGE, AND AT A ACTUAL OPERATING RPM.
 - 4.3. DESCRIPTIVE LITERATURE OF ALL EQUIPMENT AND ACCESSORIES, INCLUDING A COMPLETE LIST OF ALL MATERIAL AND EQUIPMENT TO BE FURNISHED BY THE PUMP SUPPLIER.
 - 4.4. ANY VARIANCES FROM THE MODELS REFERENCED OR THE OPTIONS LISTED HEREIN.

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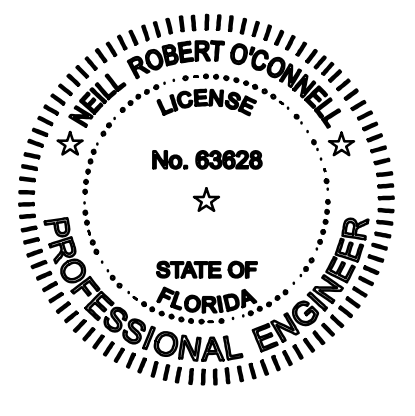
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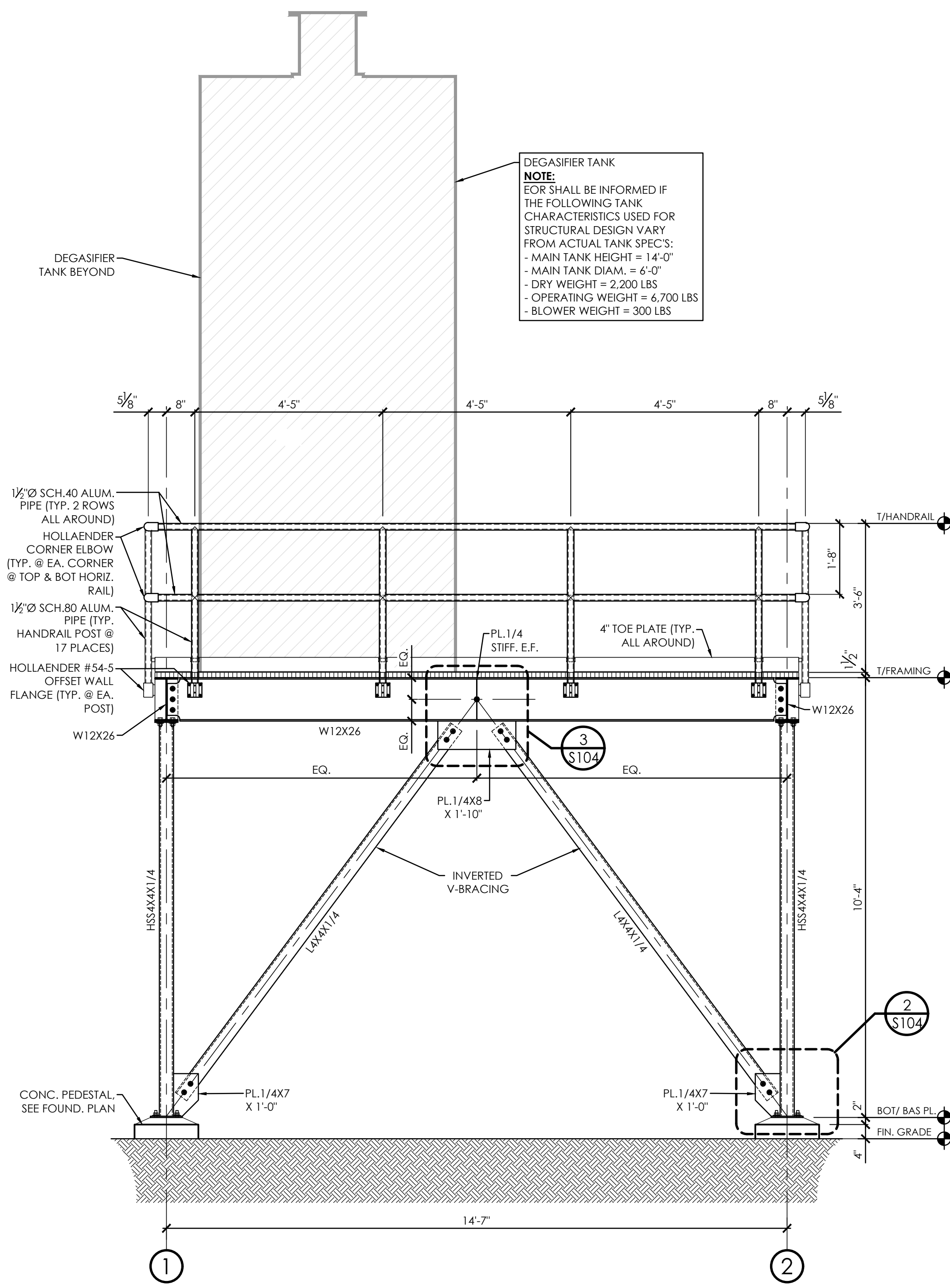
TITLE: **EQUIPMENT AND PIPING PLAN**

SHEET NO: **C102**

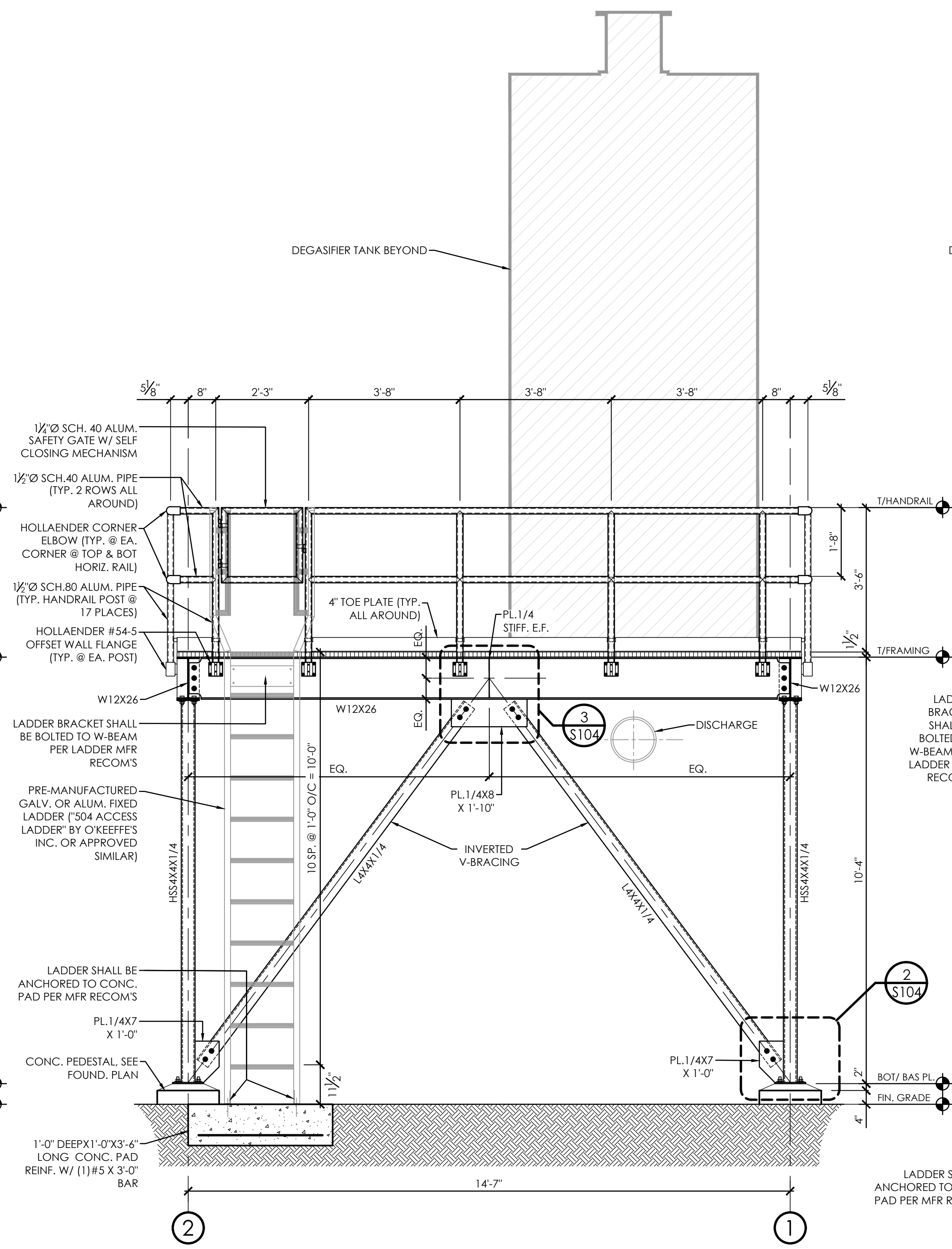


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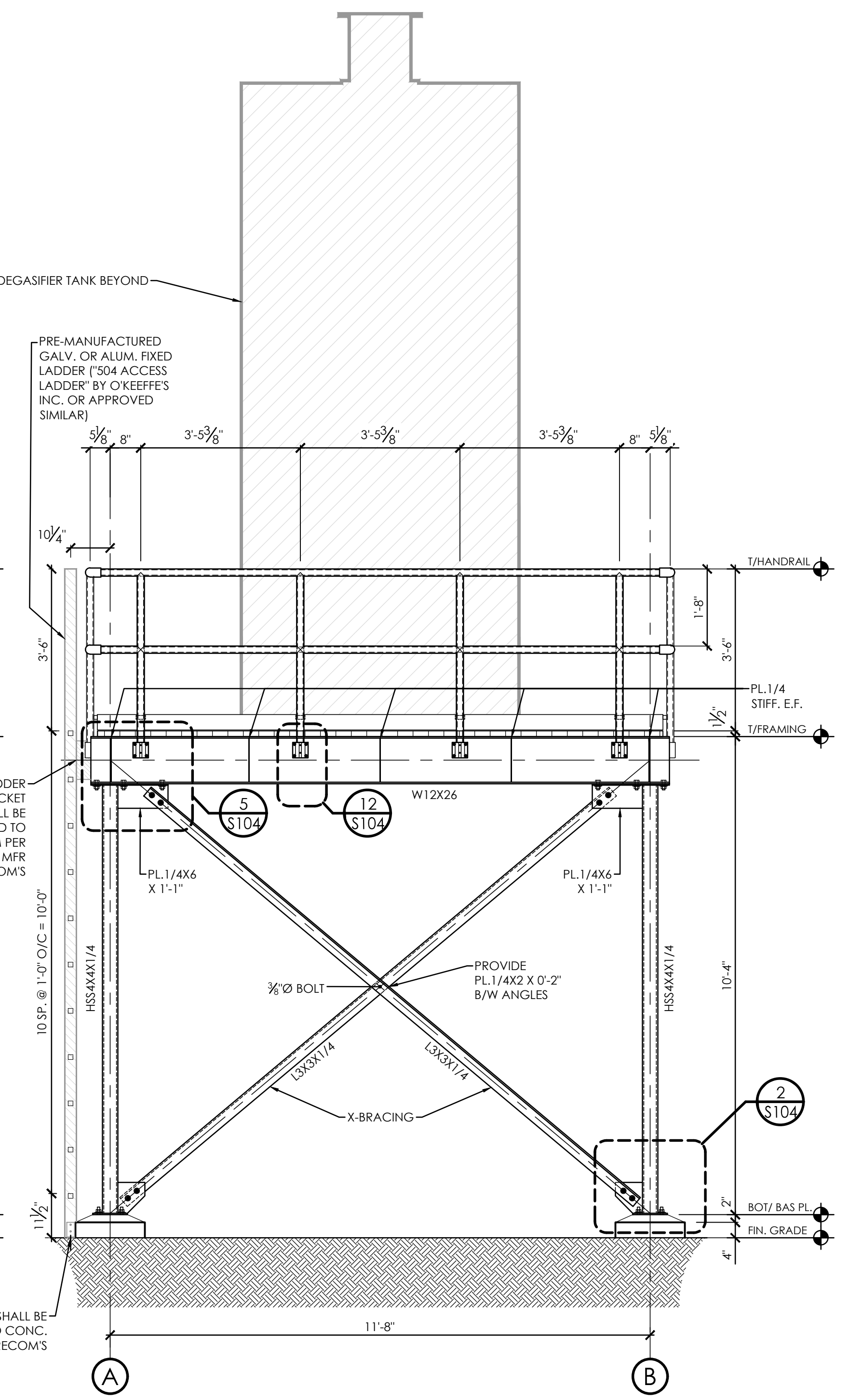
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1 SOUTH ELEVATION
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2 NORTH ELEVATION
SCALE: 1/2"=1'-0"

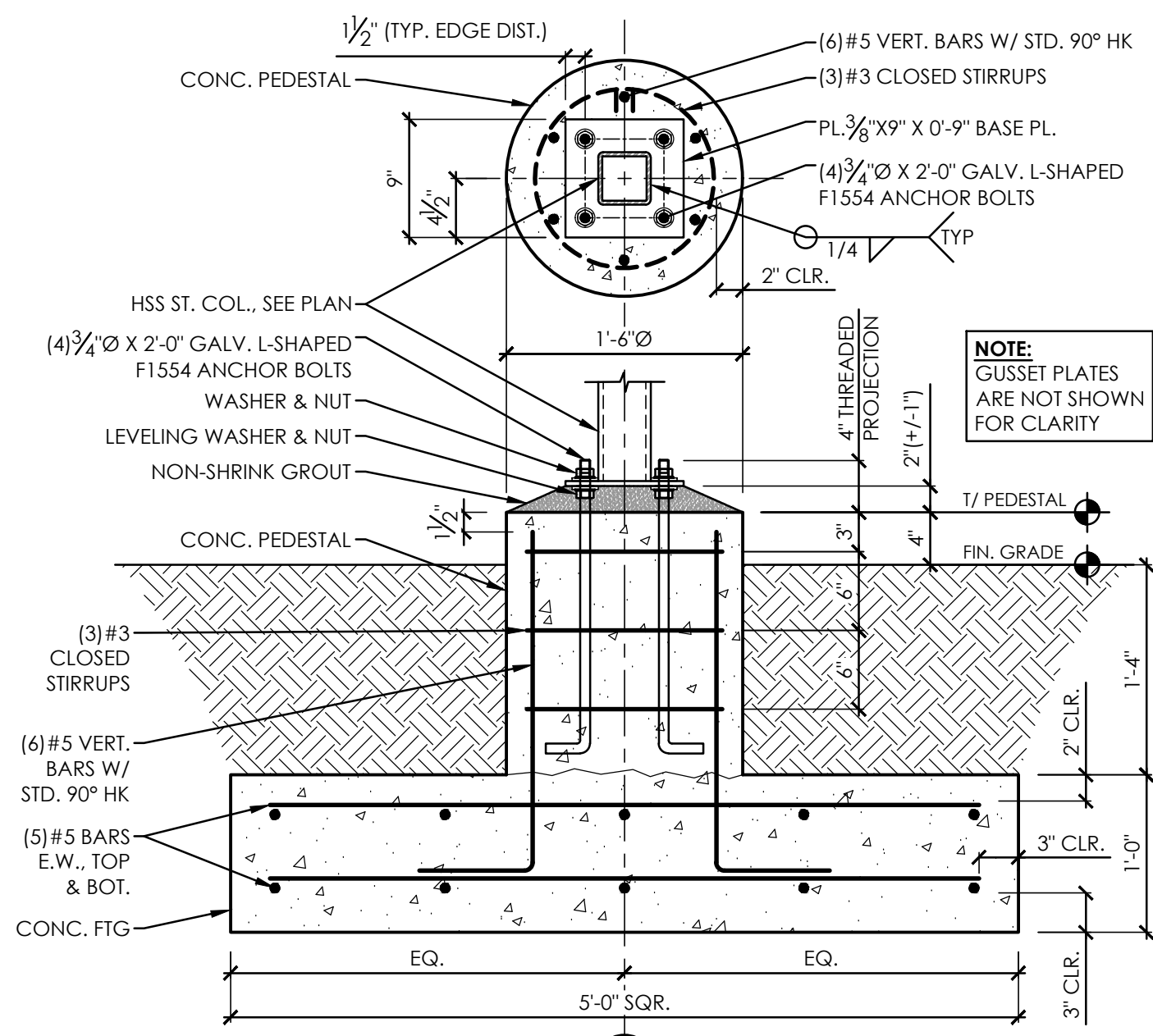


3 WEST ELEVATION
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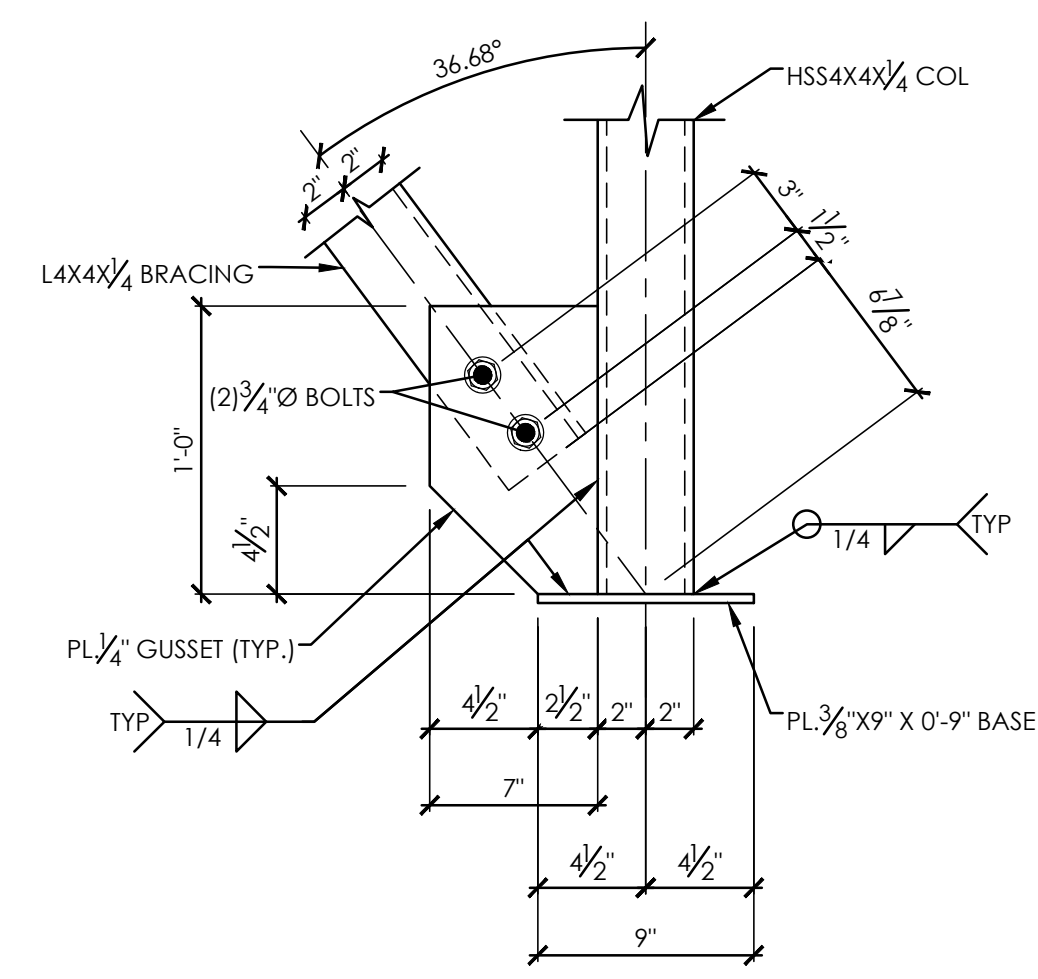
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TITLE:
DEGASIFIER PLATFORM ELEVATIONS

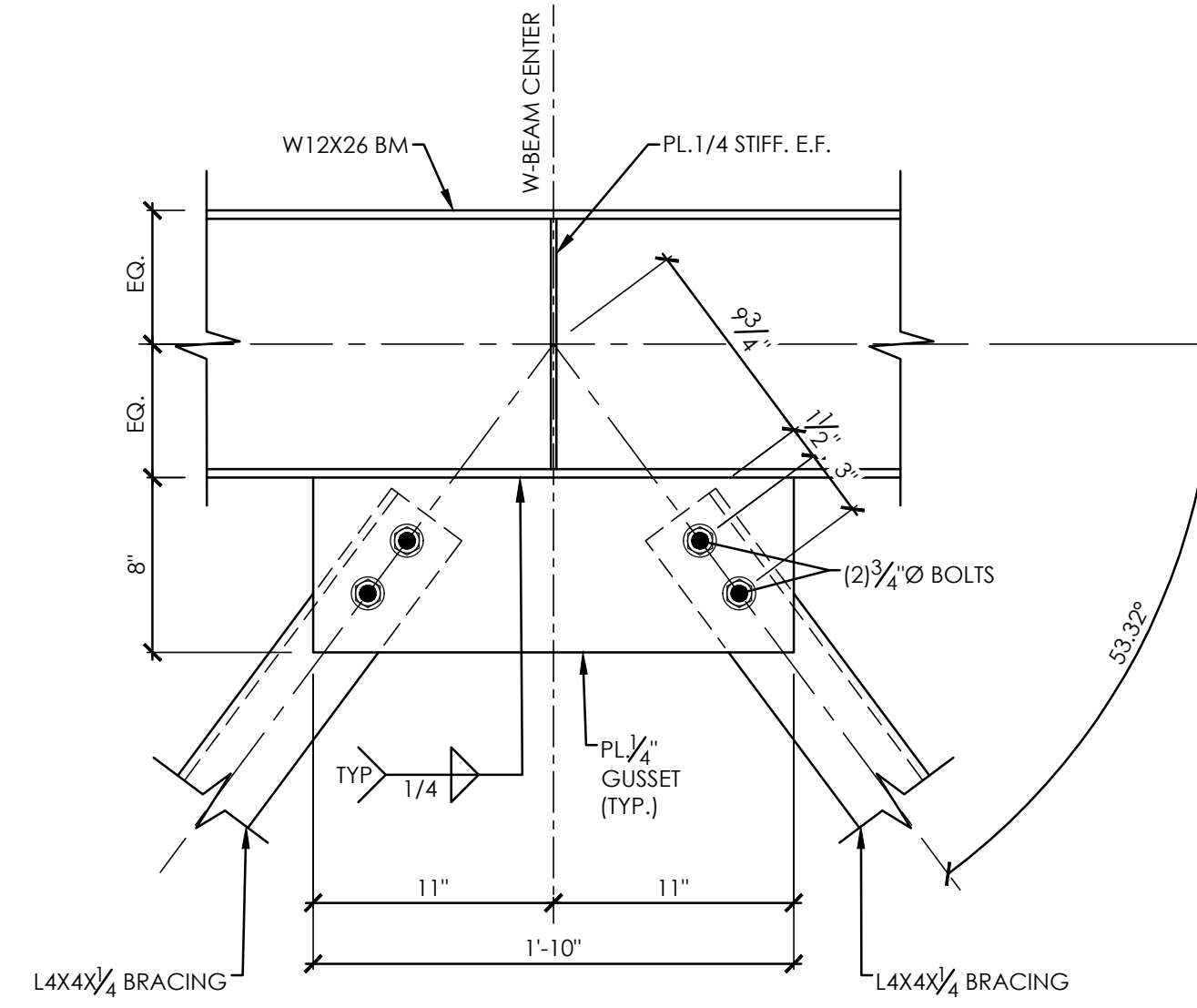
SHEET No:
S103



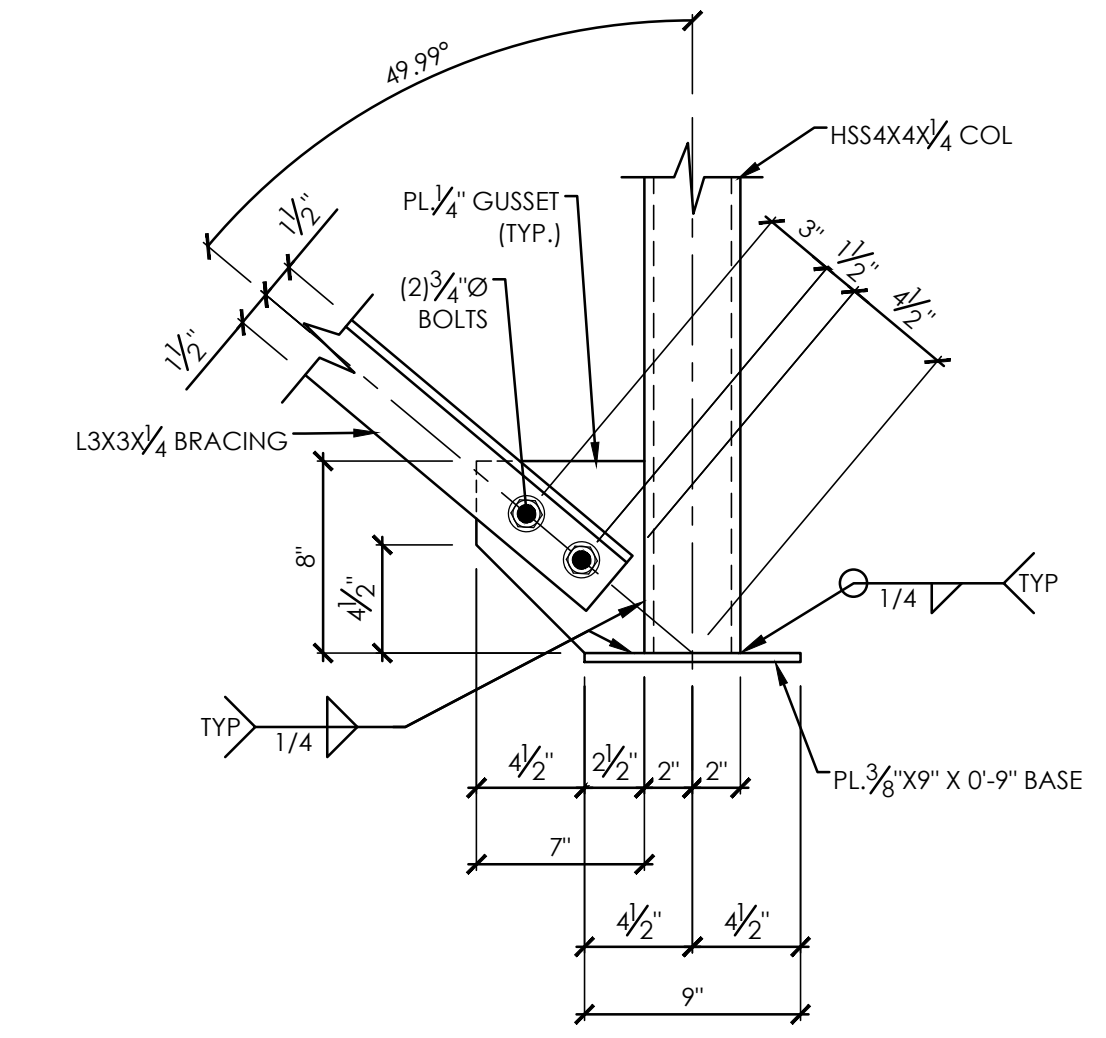
1 TYP. FOUNDATION & COL. BASE PLATE DETAIL
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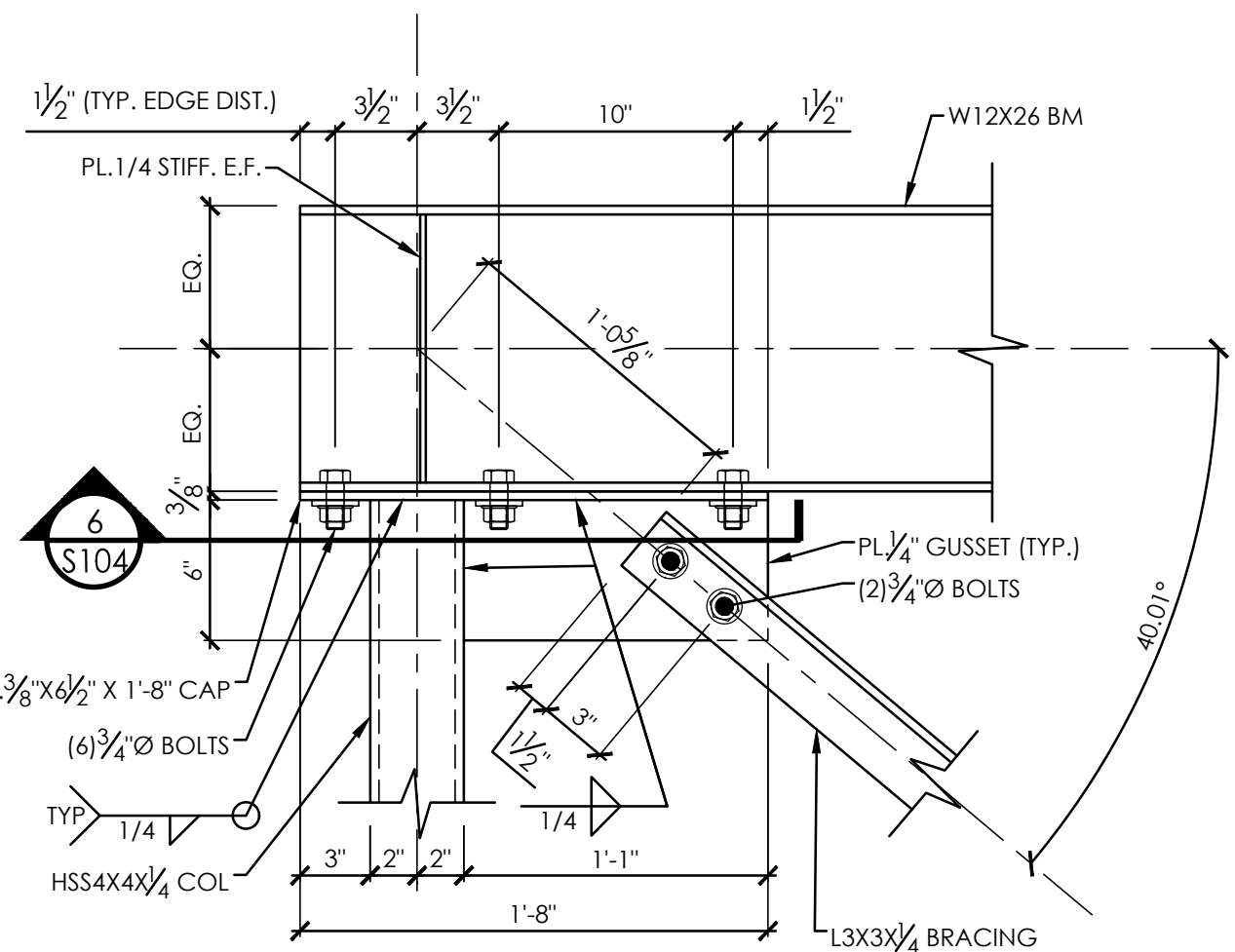
2 V-BRACING CONNECTION DETAIL @ BOTTOM END
SCALE: 1-1/2"=1'-0"



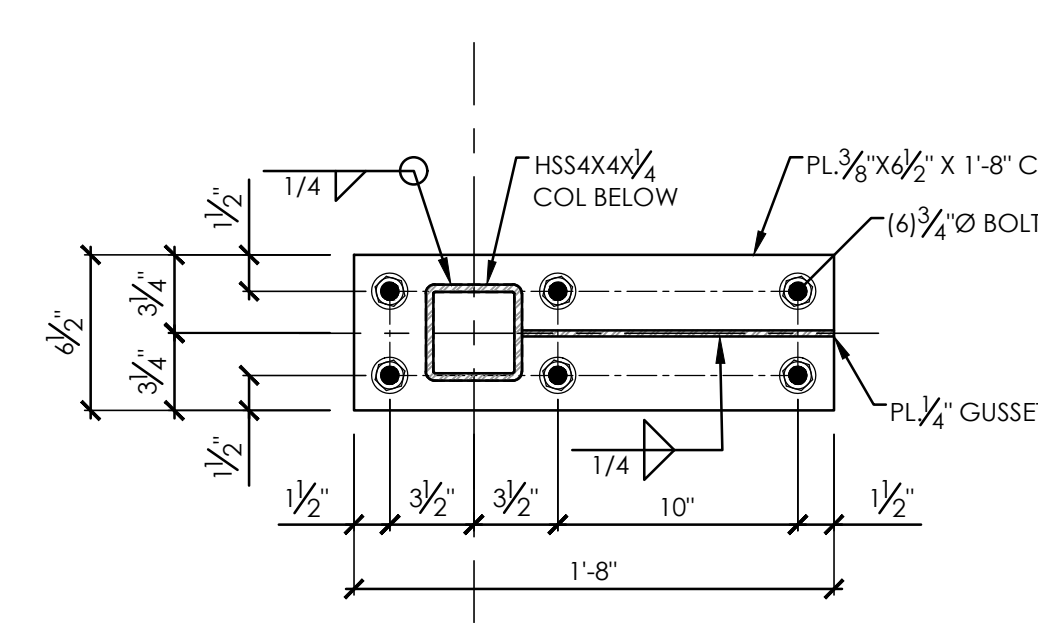
3 V-BRACING CONNECTION DETAIL @ TOP END
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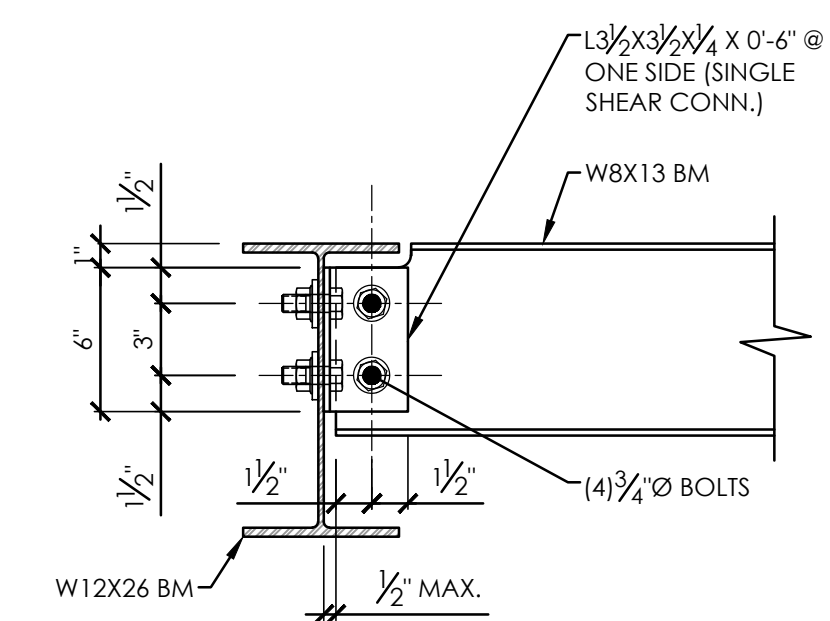
4 X-BRACING CONNECTION DETAIL @ BOTTOM END
SCALE: 1-1/2"=1'-0"



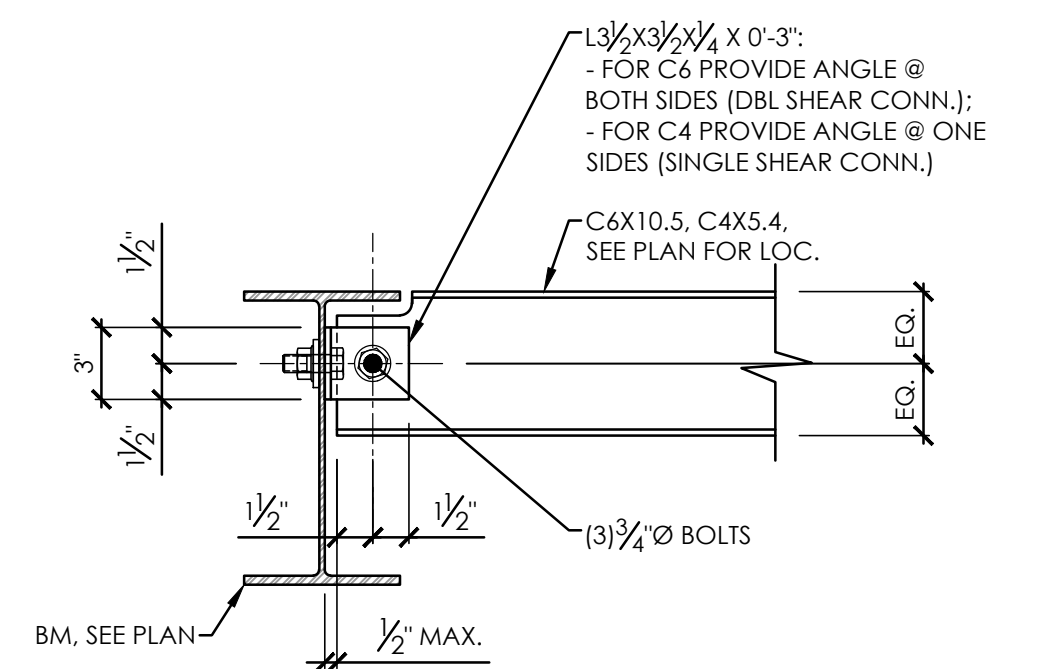
5 X-BRACING CONNECTION DETAIL @ TOP END
SCALE: 1-1/2"=1'-0"



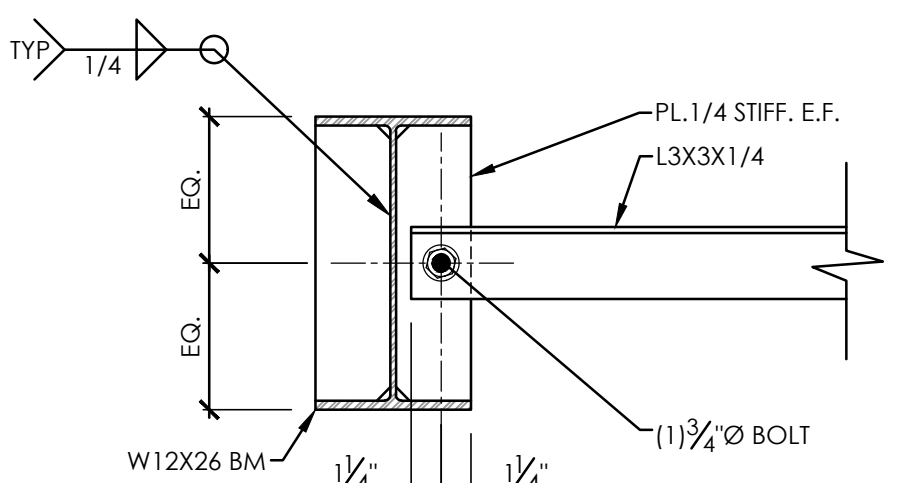
6 TYP. HSS COLUMN CAP PLATE DETAIL (BOTTOM VIEW)
SCALE: 1-1/2"=1'-0"



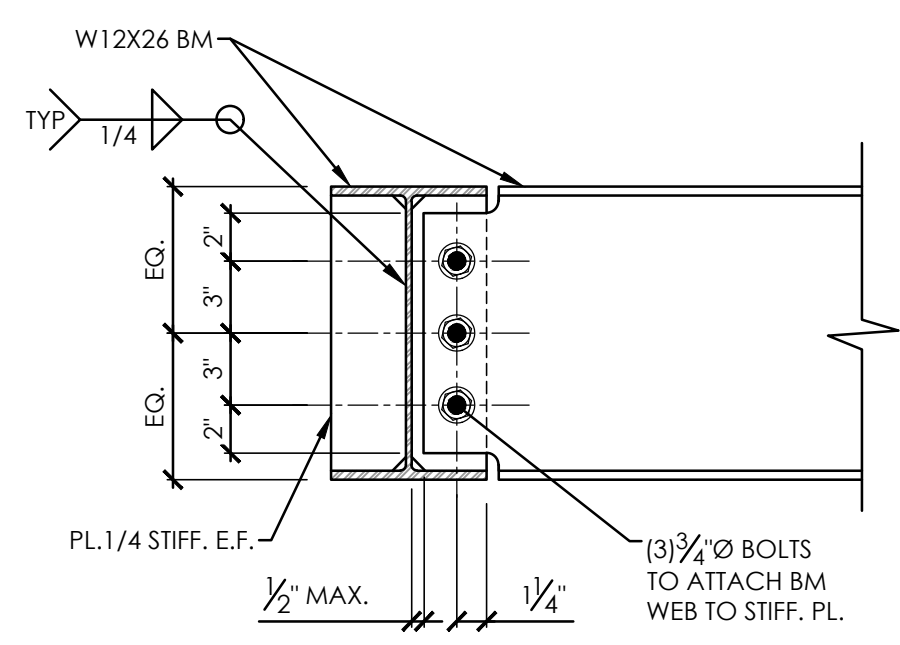
7 W8X13 TO W12X26 CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



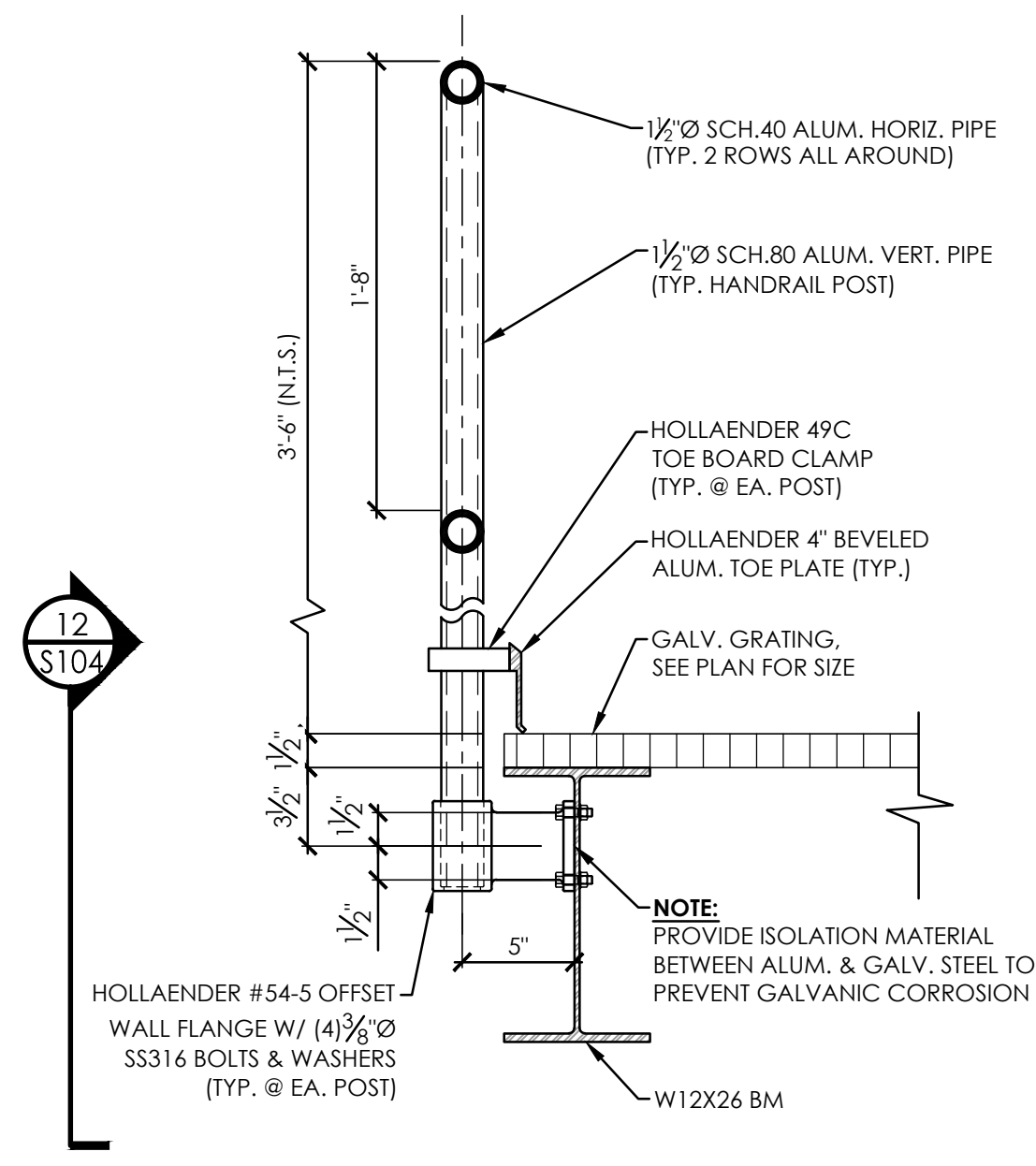
8 C6X10.5 & C4X5.4 CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



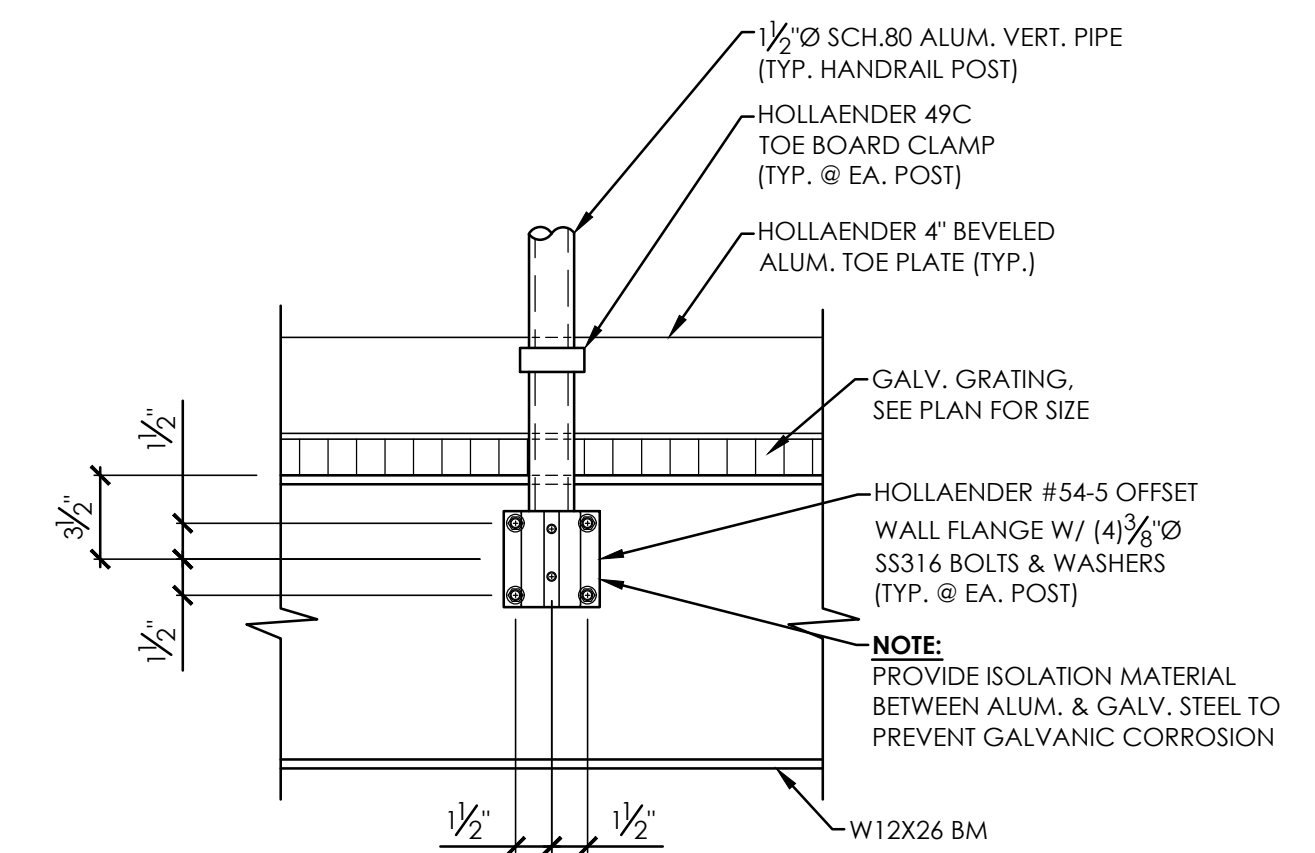
9 L3X3X1/4 TO W12X26 CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



10 W12X26 TO W12X26 CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"

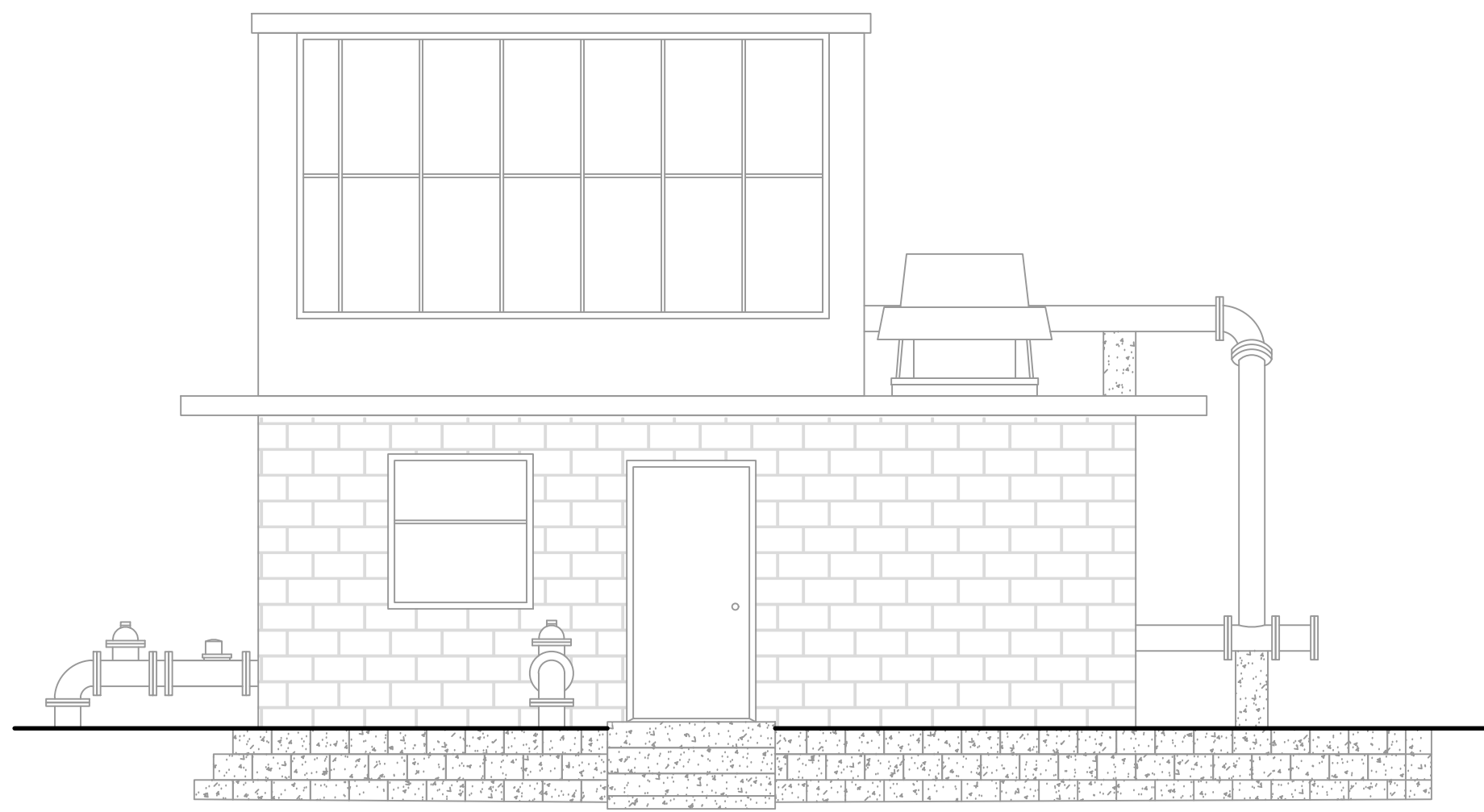


11 HANDRAIL POST CONNECTION DETAIL (SECTION VIEW)
SCALE: 1-1/2"=1'-0"



12 HANDRAIL POST CONNECTION DETAIL (ELEVATION VIEW)
SCALE: 1-1/2"=1'-0"

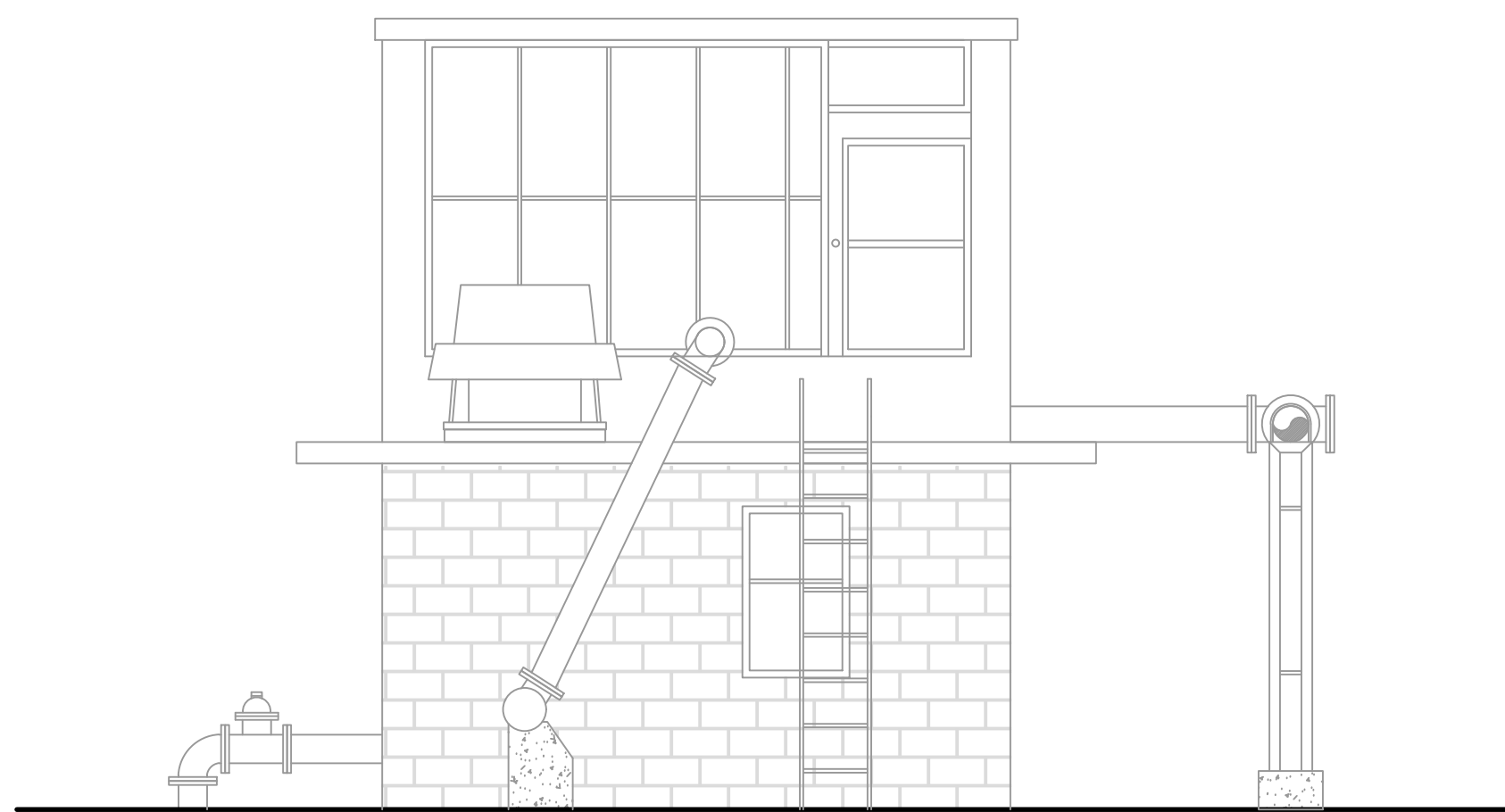
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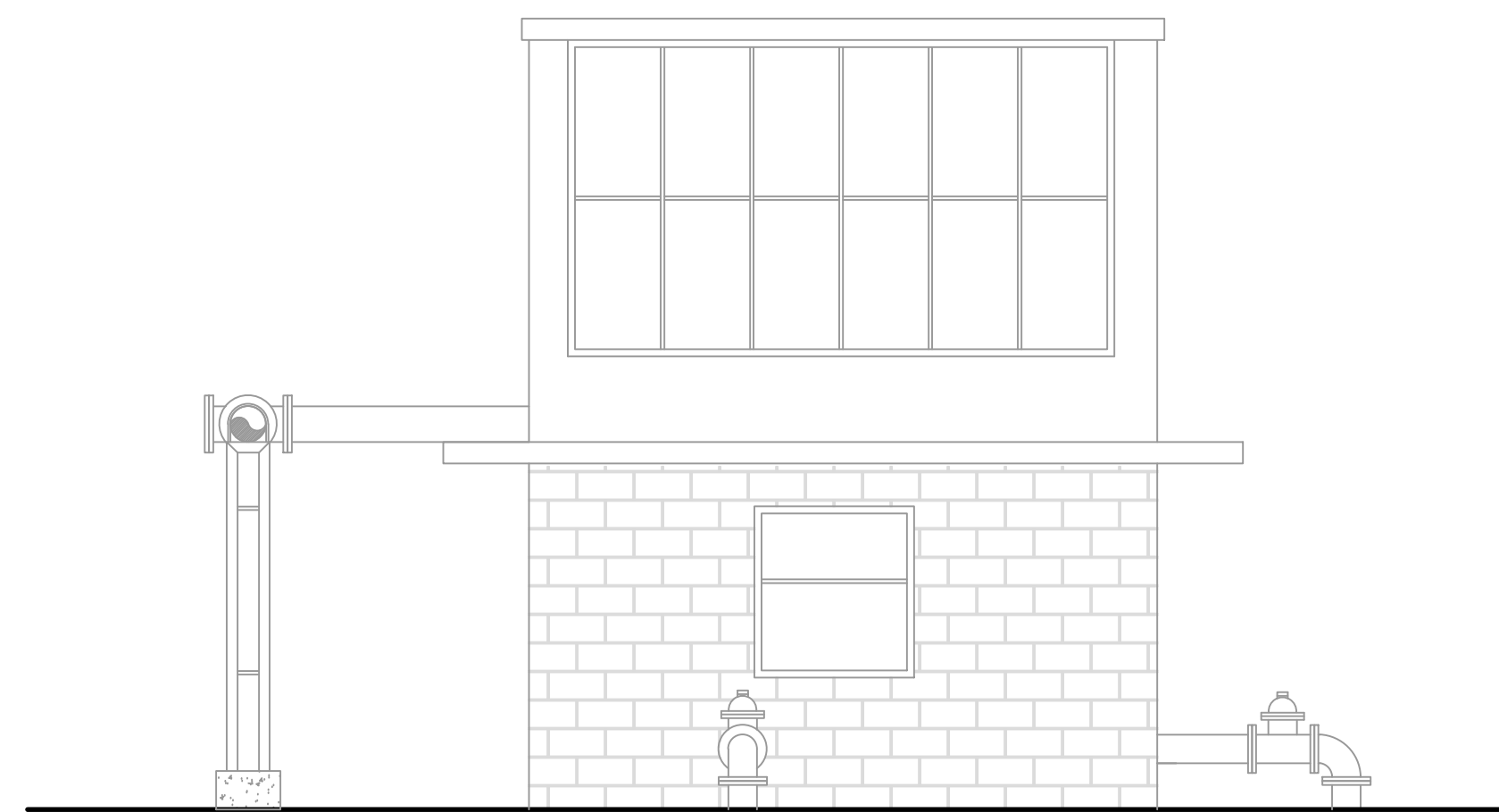
1 NORTH ELEVATION
S201 SCALE: 1/4"=1'-0"



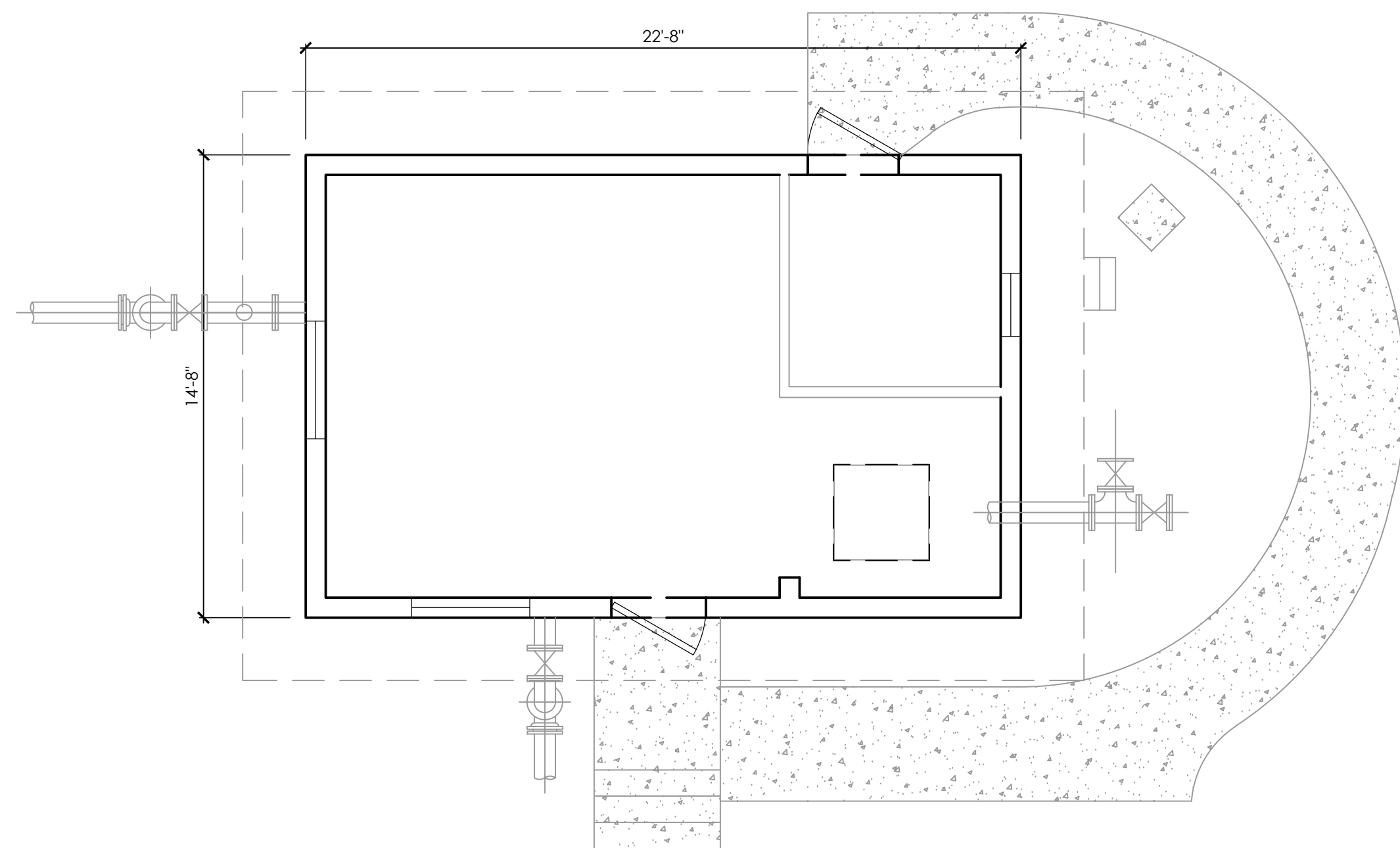
2 SOUTH ELEVATION
S201 SCALE: 1/4"=1'-0"



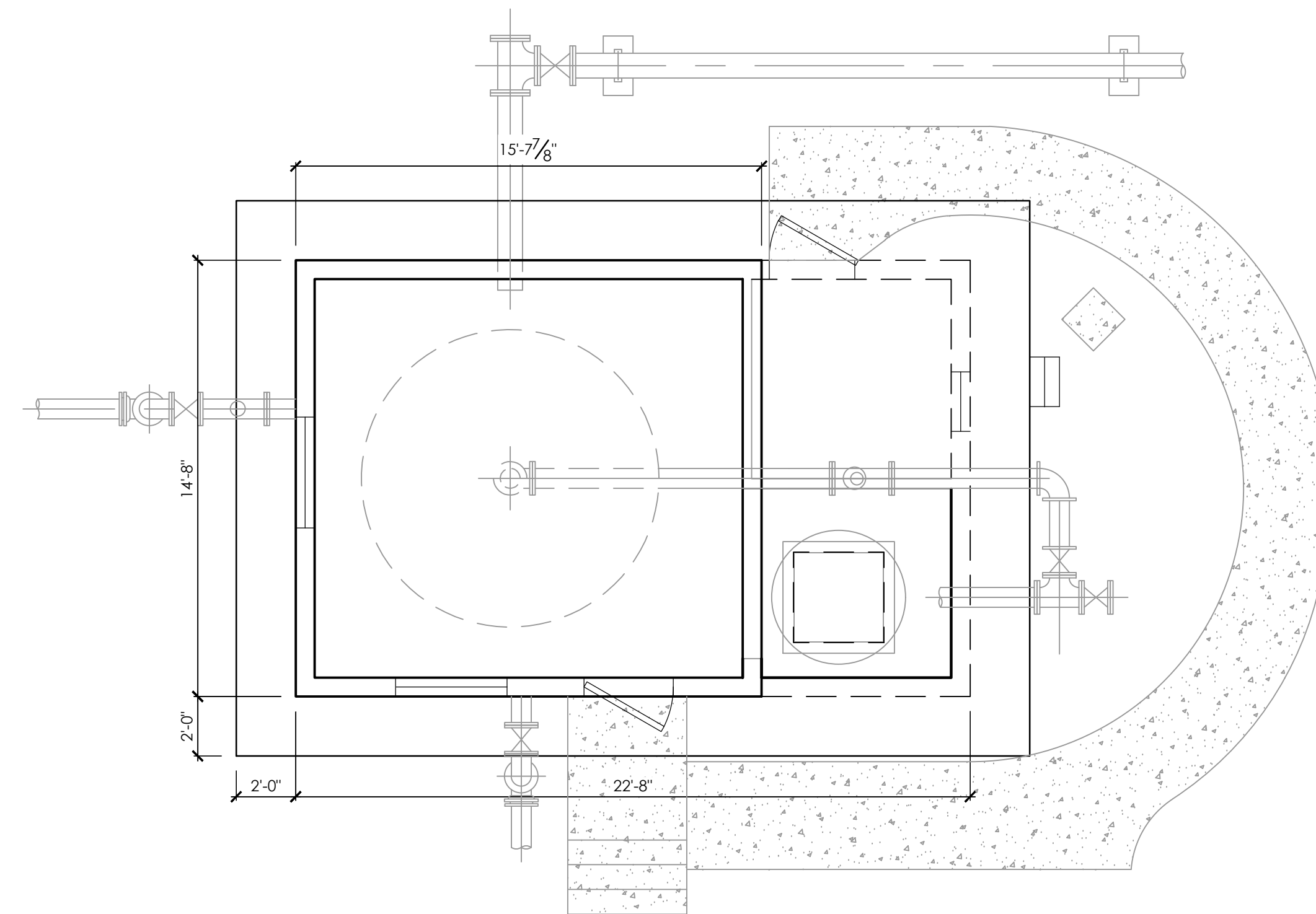
3 WEST ELEVATION
S201 SCALE: 1/4"=1'-0"



4 EAST ELEVATION
S201 SCALE: 1/4"=1'-0"

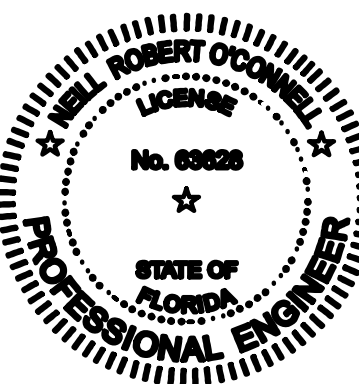


5 EXISTING 1ST FLOOR PLAN
S201 SCALE: 1/4"=1'-0"



6 EXISTING 2ND FLOOR / LOW ROOF PLAN
S201 SCALE: 1/4"=1'-0"

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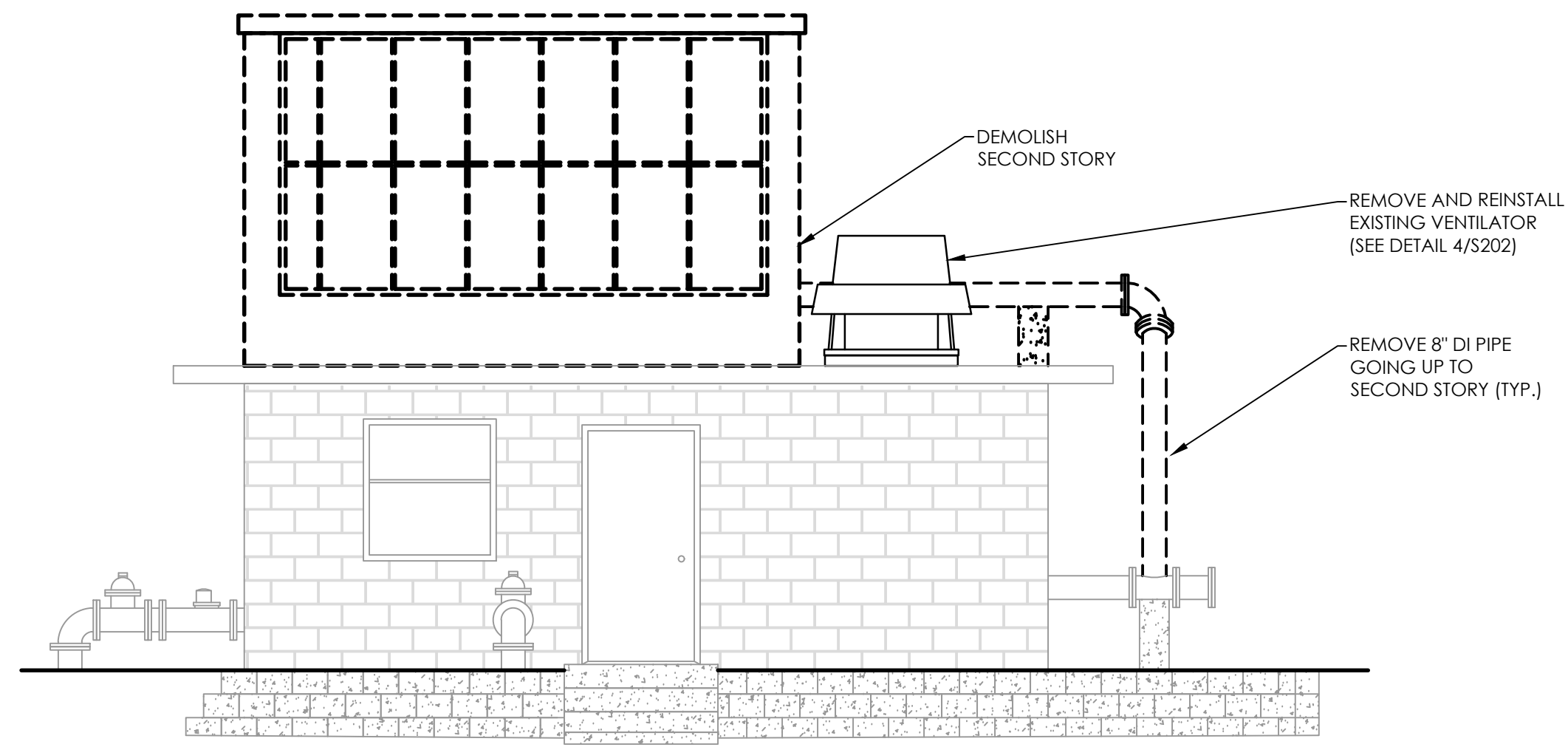
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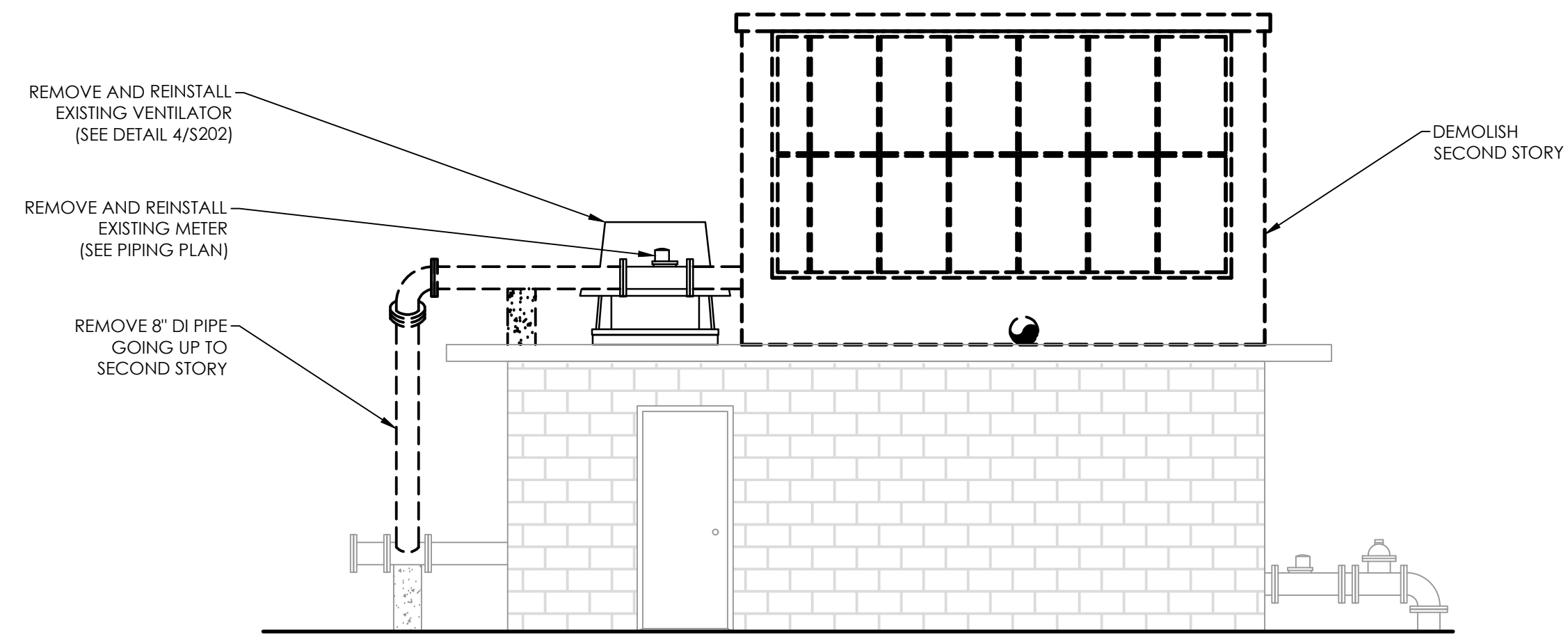
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TITLE: WELL HOUSE ROOF EXISTING PLANS & ELEVATIONS

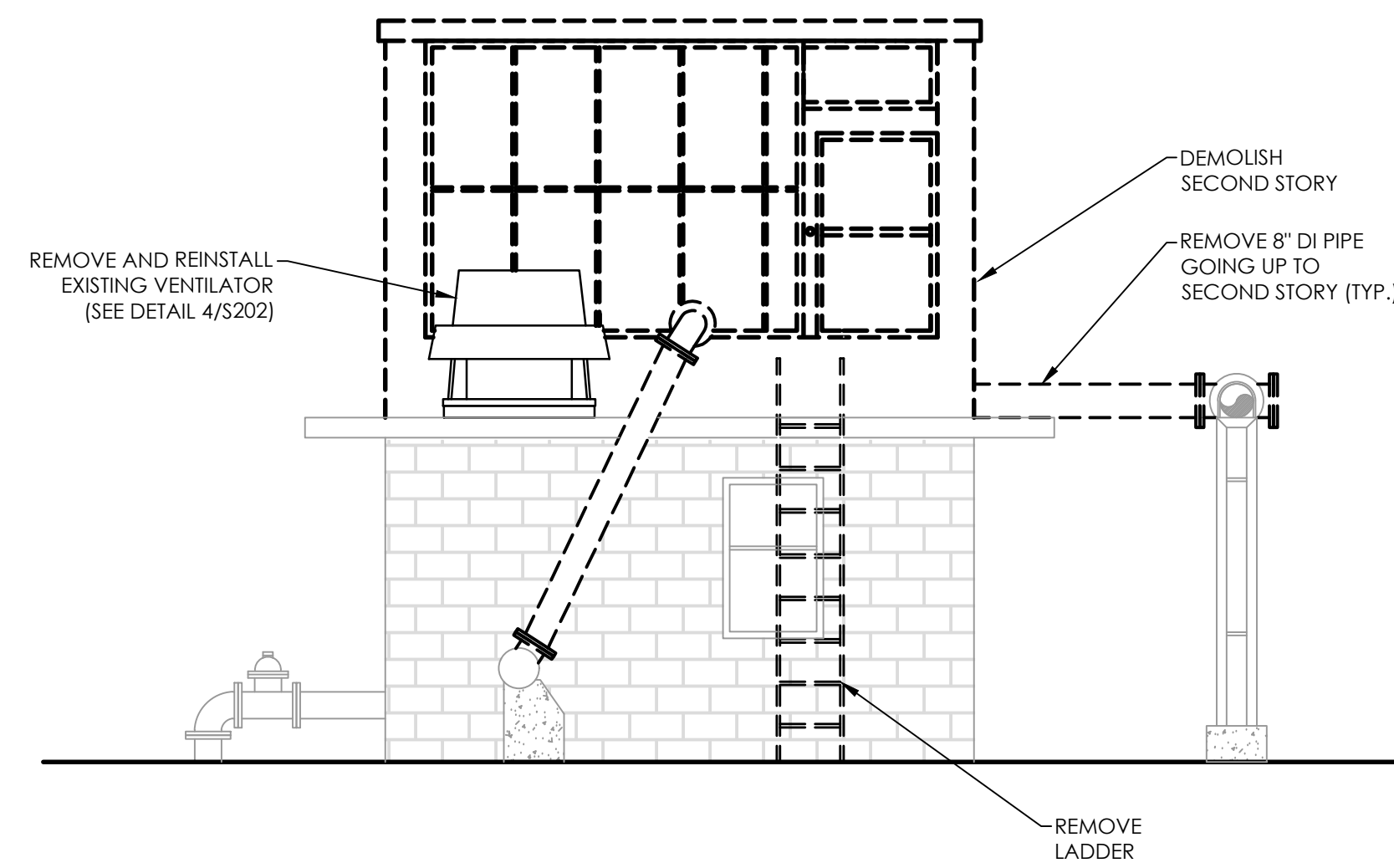
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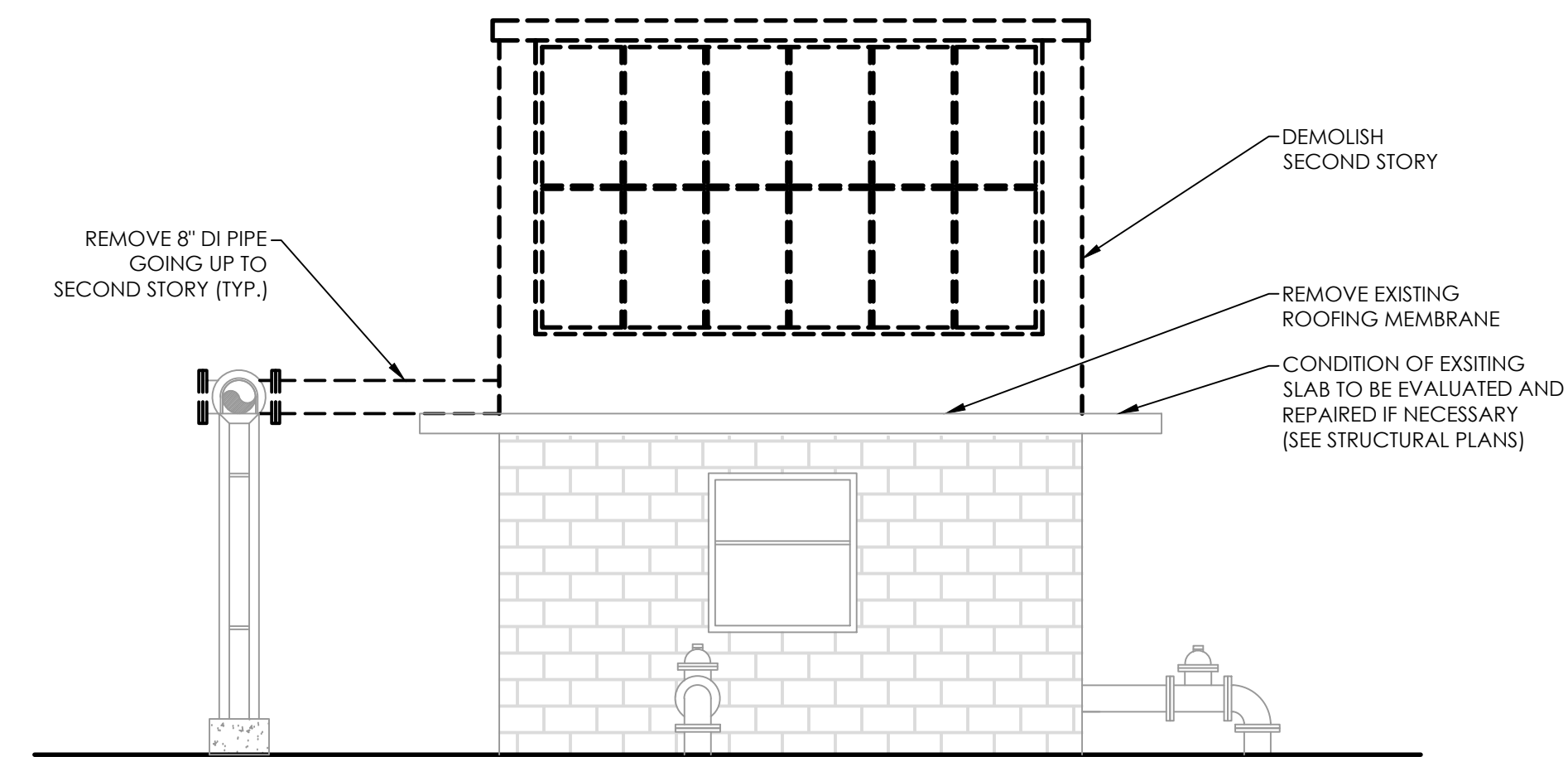
1 NORTH ELEVATION
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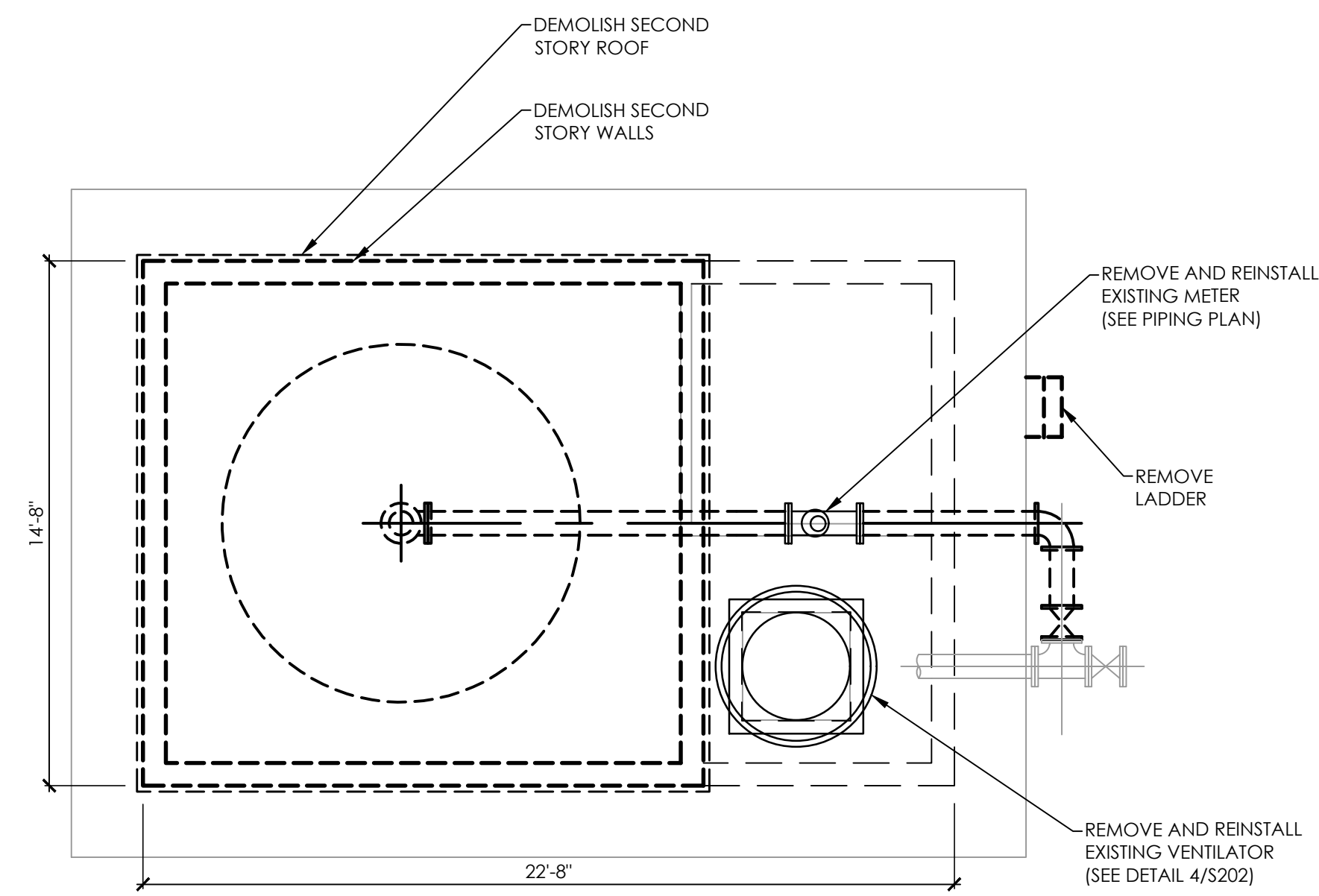
2 SOUTH ELEVATION
SCALE: 1/4"=1'-0"



3 WEST ELEVATION
SCALE: 1/4"=1'-0"

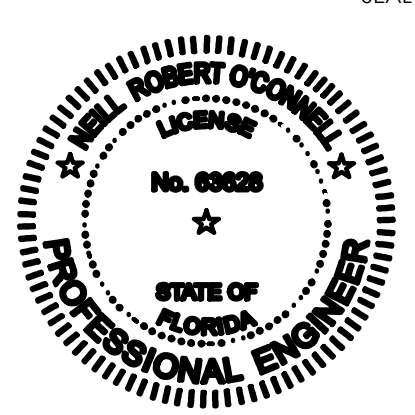


4 EAST ELEVATION
SCALE: 1/4"=1'-0"



5 DEMO PLAN
SCALE: 1/4"=1'-0"

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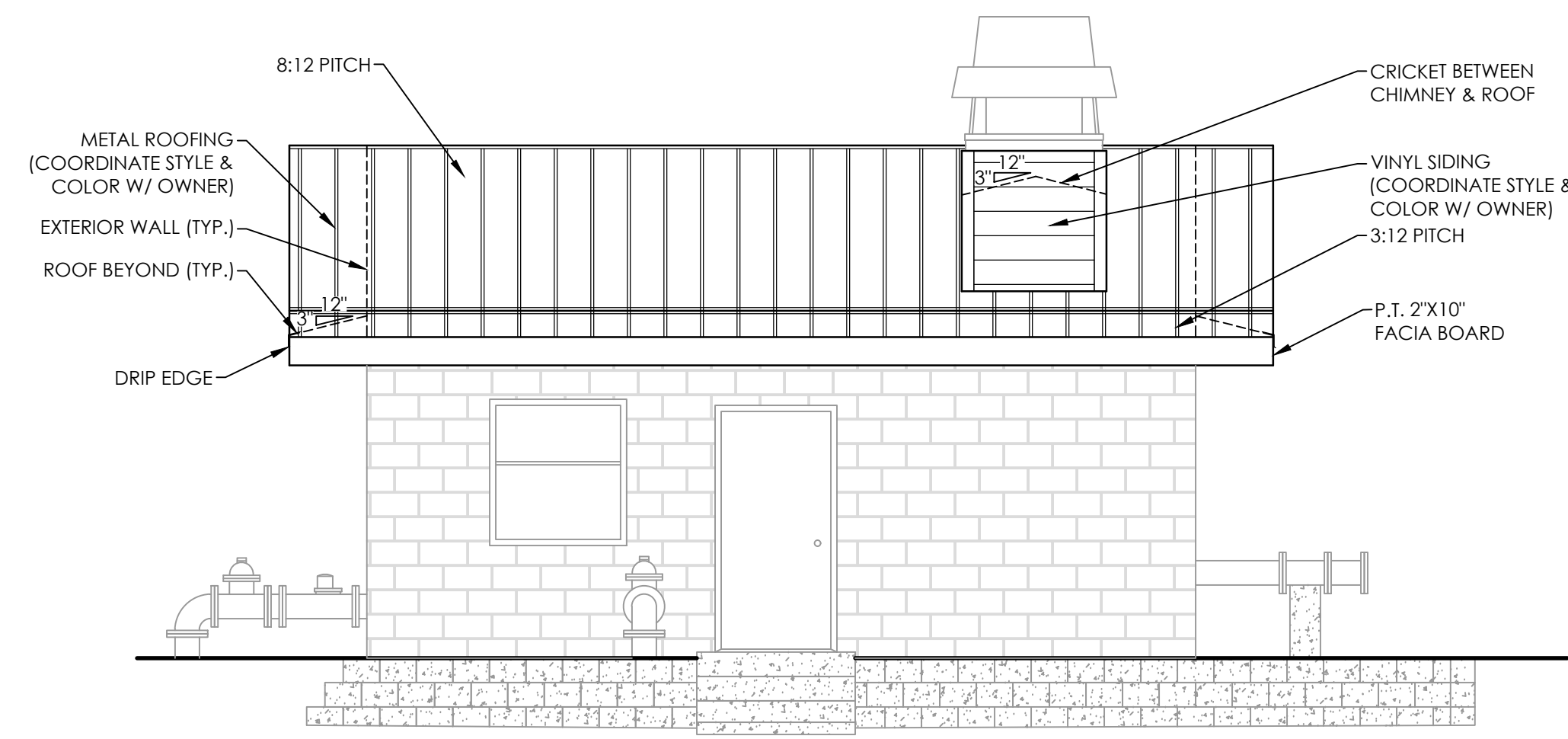
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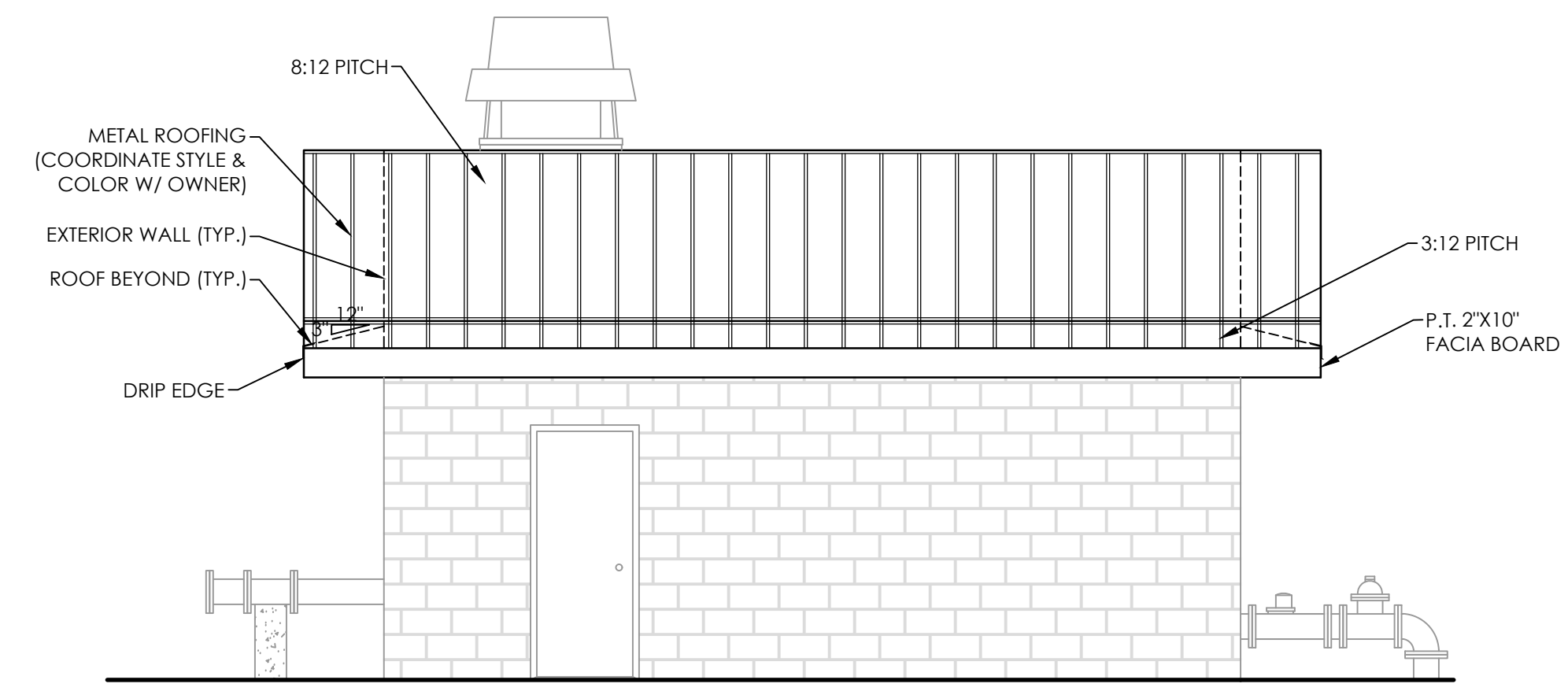
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TITLE:
WELL HOUSE ROOF DEMOLITION PLANS & ELEVATIONS

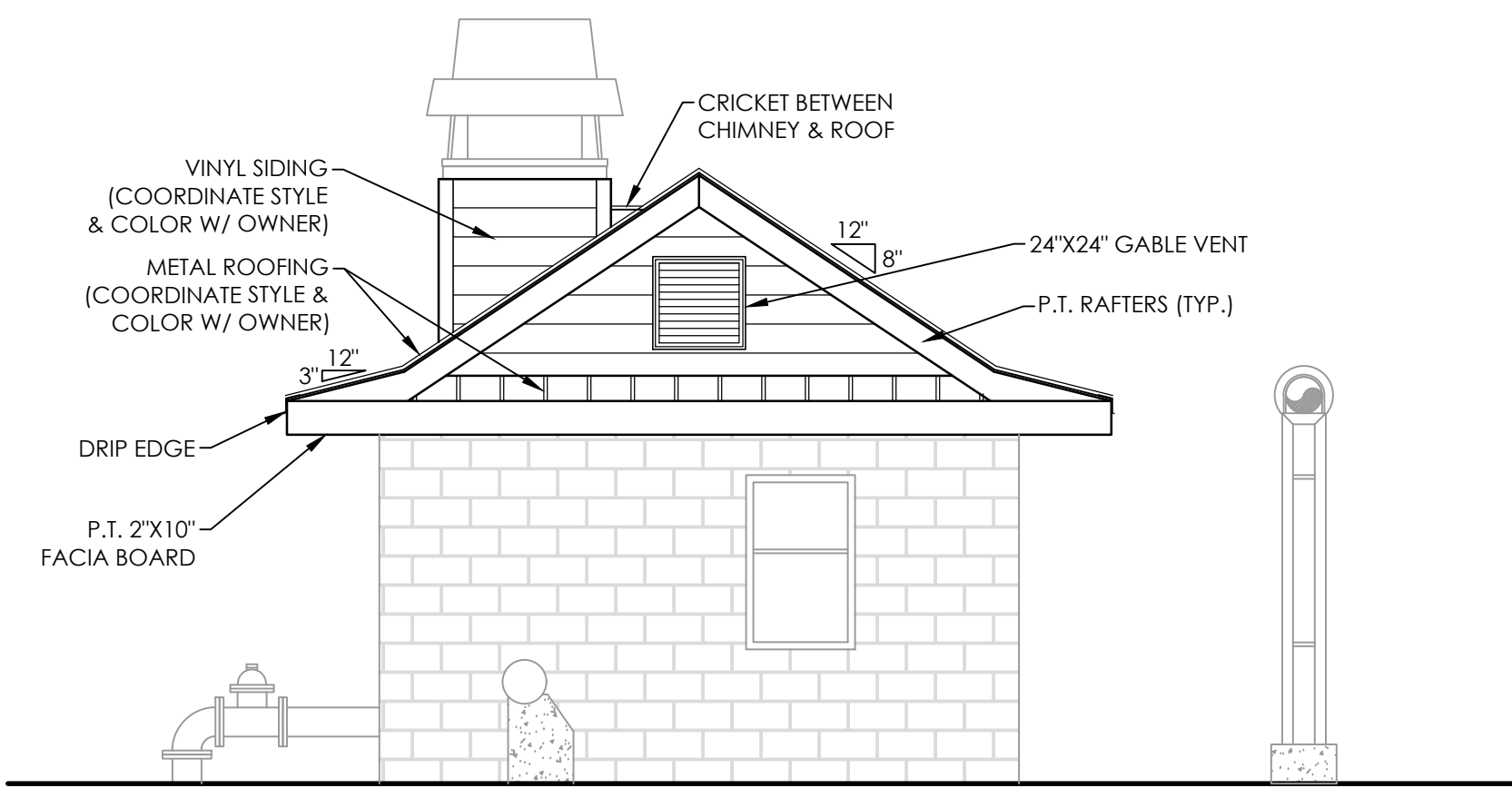
SHEET No:
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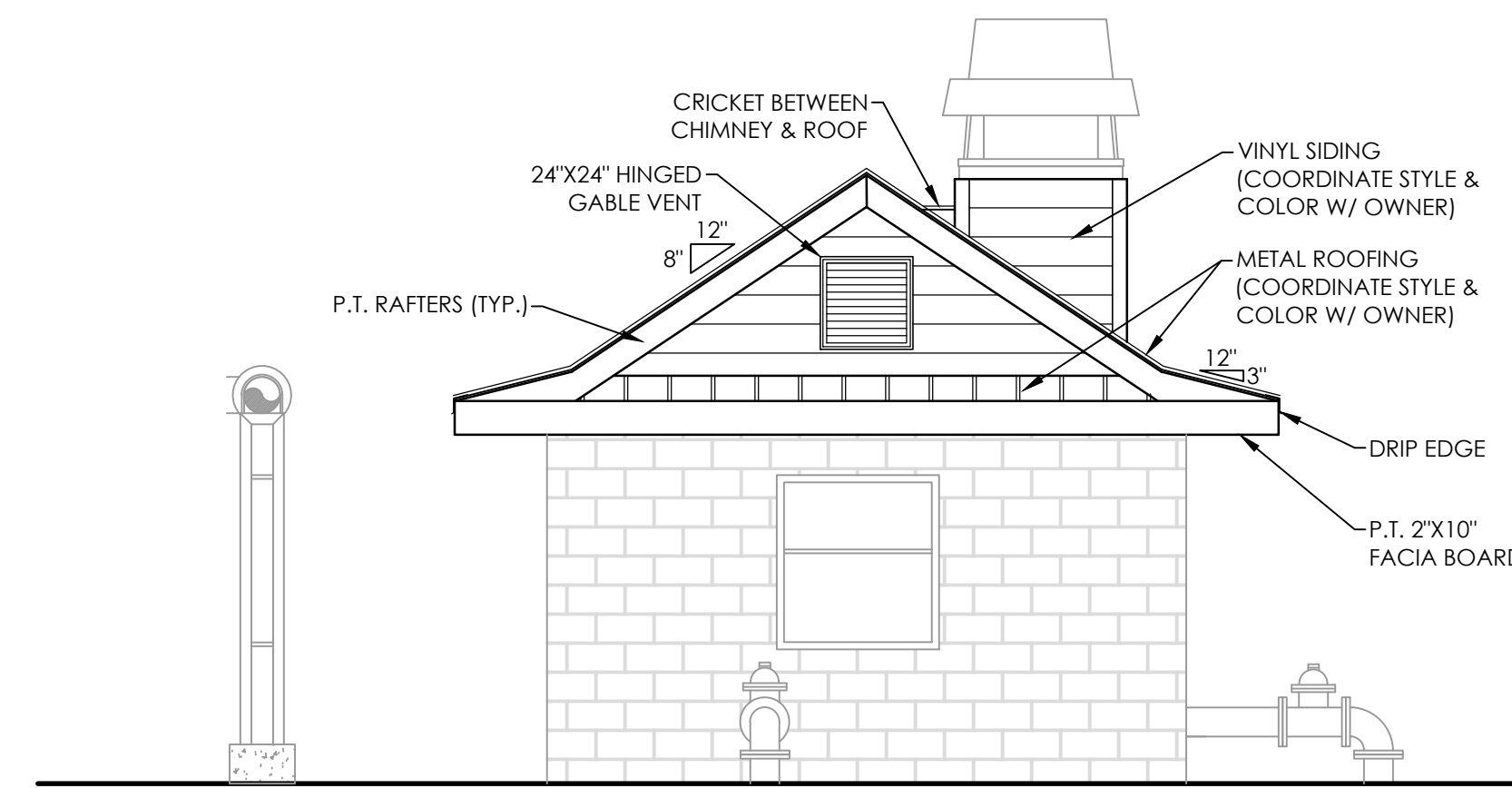
1 NORTH ELEVATION
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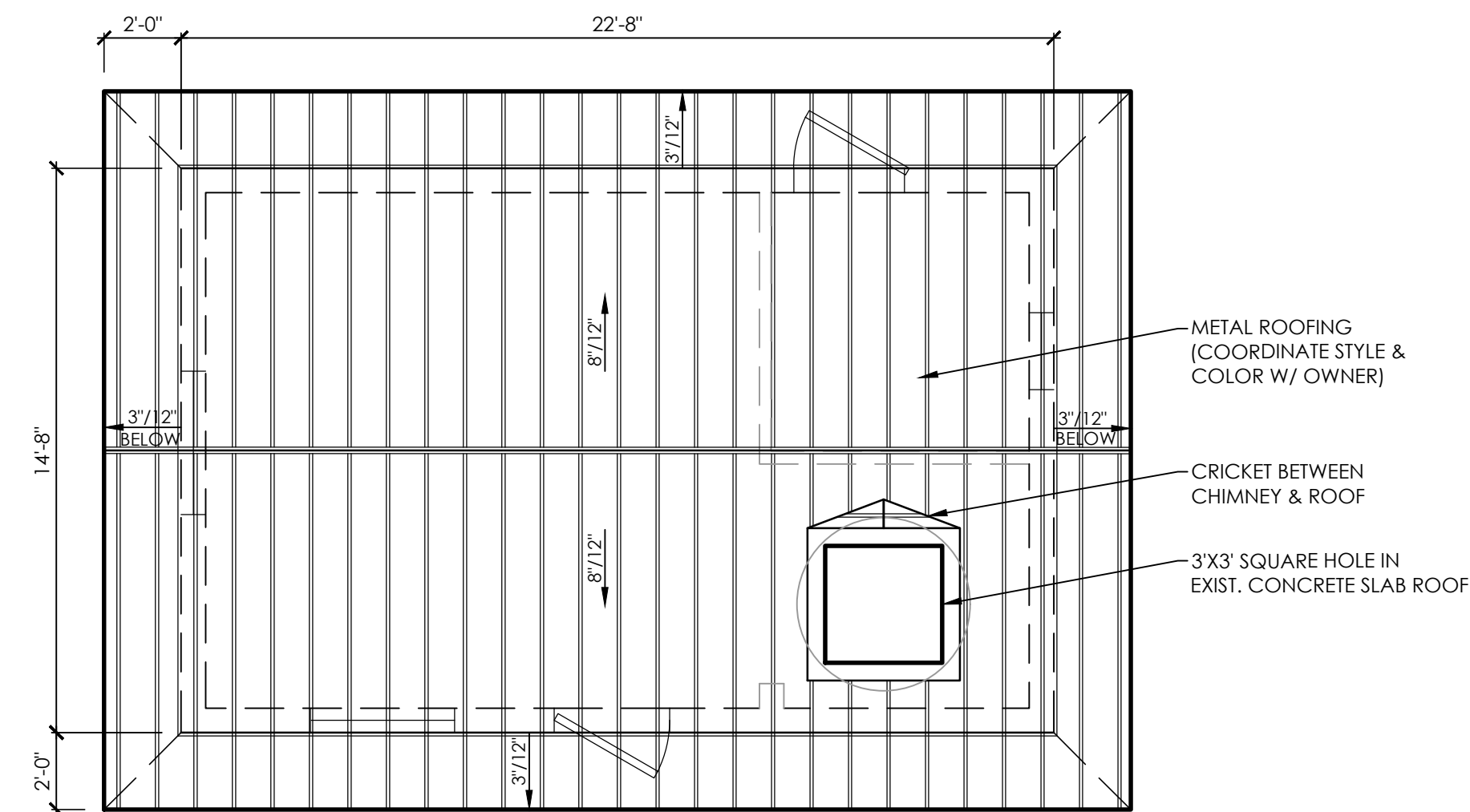
2 SOUTH ELEVATION
SCALE: 1/4"=1'-0"



3 WEST ELEVATION
SCALE: 1/4"=1'-0"

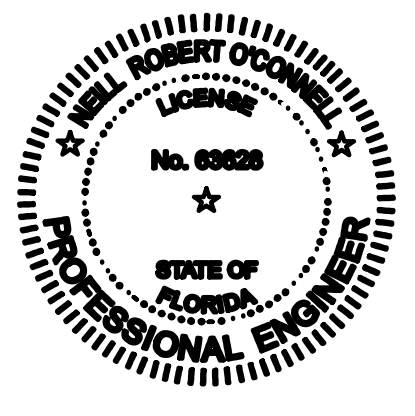


4 EAST ELEVATION
SCALE: 1/4"=1'-0"



5 ROOF PLAN
SCALE: 1/4"=1'-0"

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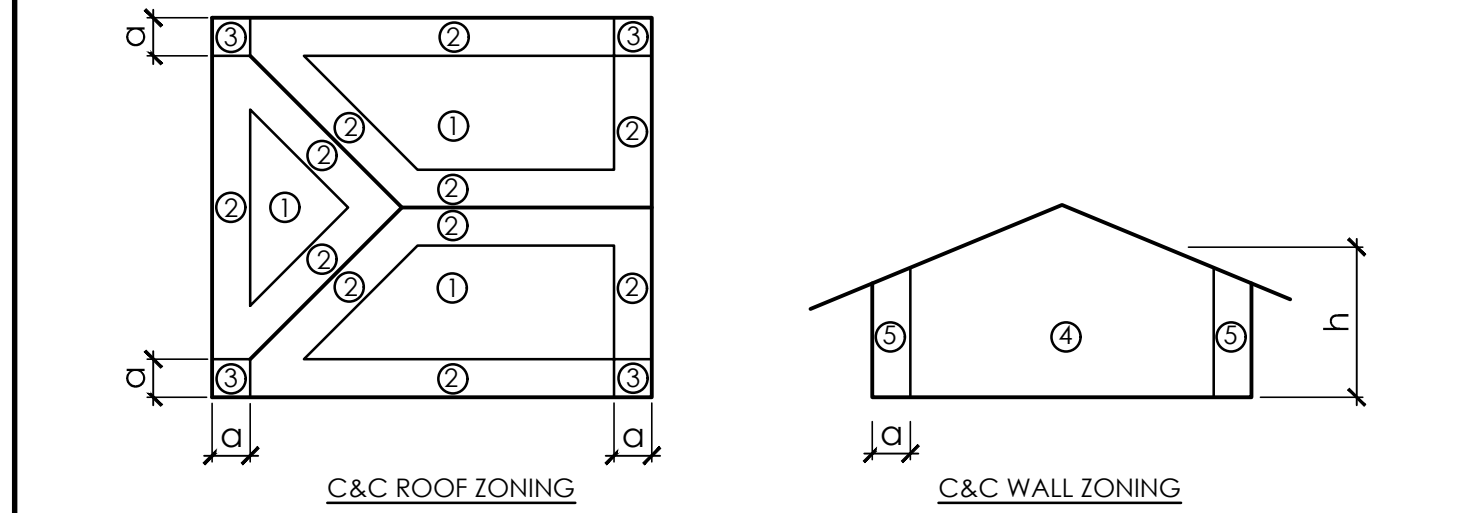
TITLE:
WELL HOUSE ROOF PROPOSED PLANS & ELEVATIONS

SHEET No:
S203

WIND LOADING NOTES	
II	BUILDING RISK (OCCUPANCY) CATEGORY
150	ASCE 7-16 ULTIMATE WIND SPEED, V _{ult} (MPH)
B	EXPOSURE CATEGORY
ENCLOSED	WIND CLOSURE CATEGORY
±0.18	INTERNAL PRESSURE COEFFICIENT, C _{pi}
3.0	END ZONE WIDTH, g (FT)
LESS THAN 30	MEAN ROOF HEIGHT, h (FT)
1.00	ADJUSTMENT FACTOR FOR BUILDING HEIGHT AND EXPOSURE (FROM FIGURE 30.5-1 ASCE 7-16)

ULTIMATE WIND PRESSURES FOR COMPONENTS AND CLADDING, PSF											
AREA, FT ²	ROOF 0° TO 7°					ROOF >7° TO 27°					
	NEGATIVE PRESSURE				OVERHANG NET PRESSURE	NEGATIVE PRESSURE				OVERHANG NET PRESSURE	
	POSITIVE PRESSURE IN ZONES 1,2,3	ZONE 1 (ROOF INTER.)	ZONE 2 (ROOF EDGE)	ZONE 3 (ROOF CORNER)	ZONE 2 (ROOF CORNER)	POSITIVE PRESSURE IN ZONES 1,2,3	ZONE 1 (ROOF INTER.)	ZONE 2 (ROOF EDGE)	ZONE 3 (ROOF CORNER)	ZONE 2 (ROOF CORNER)	
≤10	16.4	-40.5	-68.0	-102.2	-58.3	-9.1	23.3	-37.1	-64.5	-95.4	-127.0
20	15.4	-39.5	-67.0	-101.7	-57.3	-7.5	21.2	-36.0	-63.0	-94.2	-126.0
50	14.1	-38.1	-65.1	-101.4	-55.9	-6.1	18.5	-34.7	-61.5	-92.8	-124.6
100	13.1	-37.1	-63.9	-101.4	-54.9	-5.4	16.4	-33.6	-60.3	-91.7	-123.6

AREA, FT ²	ROOF >27° TO 45°					PARAPET NET PRESSURE						
	NEGATIVE PRESSURE				OVERHANG NET PRESSURE IN ZONES 2,3	WINDWARD PARAPET				LEEWARD PARAPET		
	POSITIVE PRESSURE IN ZONES 1,2,3	ZONE 1 (ROOF INTER.)	ZONE 2 (ROOF EDGE)	ZONE 3 (ROOF CORNER)	OVERHANG NET PRESSURE IN ZONES 4,5	NEGATIVE PRESSURE IN ZONE 4	NEGATIVE PRESSURE IN ZONES 1,2,3	ZONE 4	ZONE 5	ZONE 4	ZONE 5	
≤10	16.4	-40.5	-68.0	-102.2	-68.6	40.5	-43.9	-54.2	108.5	142.7	-84.4	-94.7
20	15.4	-39.5	-67.0	-101.7	-66.6	38.7	-42.1	-50.5	99.4	123.4	-80.8	-89.2
50	14.1	-38.1	-65.1	-101.4	-63.8	36.3	-39.7	-45.7	87.4	97.7	-76.0	-82.0
100	13.1	-37.1	-63.9	-101.4	-61.8	34.4	-37.9	-42.1	78.3	78.3	-72.3	-76.6



- NOTE:**
- OVERHANG SURFACE PRESSURE ON TOP OF ROOF IS EQUAL TO:
 - FOR ZONE 1 & 2, P_{OH} = 1.0 x ROOF PRESSURE FROM TABLES FOR ZONE 1, 2.
 - FOR ZONE 3, P_{OH} = 1.15 x ROOF PRESSURE FROM TABLES FOR ZONE 3.
 - FOR WINDWARD PARAPET:
 - POSITIVE SURFACE PRESSURE ON WINDWARD SIDE IS EQUAL TO POSITIVE WALL PRESSURE IN ZONE 4 OR 5.
 - NEGATIVE SURFACE PRESSURE ON LEeward SIDE IS EQUAL TO NEGATIVE ROOF PRESSURE IN ZONE 2 OR 3.
 - FOR LEEWARD PARAPET:
 - POSITIVE SURFACE PRESSURE ON WINDWARD SIDE IS EQUAL TO POSITIVE WALL PRESSURE IN ZONE 4 OR 5.
 - NEGATIVE SURFACE PRESSURE ON LEEWARD SIDE IS EQUAL TO NEGATIVE WALL PRESSURE IN ZONE 4 OR 5.
 - PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE PROJECTED SURFACES, RESPECTIVELY.
 - FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
 - WHERE TESTING OF COMPONENTS AND CLADDING FOR WIND LOAD RESISTANCE IS BASED ON ALLOWABLE (NOMINAL) WIND LOADS, THE DESIGN WIND PRESSURES LISTED ABOVE ARE PERMITTED TO BE MULTIPLIED BY 0.6.
 - DESIGN WIND PRESSURE SHALL NOT BE LESS THAN 1.6 PSF IN ANY ZONE FOR ANY DIRECTION.

STRUCTURAL INSPECTION

- STRUCTURAL ENGINEER TO BE NOTIFIED IN WRITING ONE WEEK (IF POSSIBLE, THREE DAYS MINIMUM PRIOR TO ALL STRUCTURAL INSPECTION DATES (SEE STRUCTURAL INSPECTION SCHEDULE BELOW). COPY ARCHITECT ON ALL CORRESPONDENCE WITH STRUCTURAL ENGINEER, INCLUDING THE SCHEDULING OF SITE INSPECTIONS. FINAL CERTIFICATE OF OCCUPANCY LETTERS ARE EXPECTED TO COME FROM THE STRUCTURAL ENGINEER, AND IT IS THEREFORE CRITICAL THAT HE/SHE DO ALL OF THE STRUCTURAL INSPECTIONS. THIS INCLUDES FOOTING INSPECTIONS PRIOR TO POURING CONCRETE.
- TYPICAL REQUIRED INSPECTIONS (WHERE APPLICABLE)
 - CONCRETE REPAIRS PRIOR TO ROOF FRAMING.
 - ROOF FRAMING / STRAPPING PRIOR TO SHEATHING INSTALLATION.
 - ROOF SHEATHING NAILING PRIOR TO ROOFING INSTALLATION.

ABBREVIATIONS

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ARCH	ARCHITECTURAL
B	BUILDING
BLDG	BUILDING
BM	BEAM
BOT	BOT
BRG	BEARING
C	CANTILEVERED
CANT	CANTILEVERED
CIP	CAST IN PLACE
CONTROL	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE
D	DIMENSION
DL	DEAD LOAD
DN	DOWN
DWGS	DRAWINGS
E	EACH
EA	EACH
ECS	ELEVATED CONCRETE SLAB
EE	EACH END
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
F	FINISH FLOOR ELEVATION
FFE	FINISH FLOOR ELEVATION
FLR	FLOOR
FRT	FIRE RETARDANT TREATED
FTG	FOOTING
G	GAUGE
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLU	GLUED LAMINATED LUMBER
GT	GIRDER TRUSS
H	HOOK
HK	HOOK
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HT	HEIGHT
I	INTERIOR
INT	INTERIOR
J	JOIST BEARING ELEVATION
JBE	JOIST BEARING ELEVATION
JOINT	JOINT
L	LOAD
LBS	POUNDS
LG	LIGHT GAGE STEEL
LL	LIGHT LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LVL	LAMINATED VENEER LUMBER
LW	LIGHT WEIGHT
M	MASONRY
MAS	MASONRY
MAX	MAXIMUM
MECH	MECH
MFR	MANUFACTURER
MISC	MISCELLANEOUS
MIN	MINIMUM
ML	MASONRY LINTEL
MS	MAT SLAB
N	NUMBER
NO	NUMBER
NIC	NOT IN CONTRACT
NIS	NOT TO SCALE
NW	NORMAL WEIGHT
O	ON CENTER
OC	ON CENTER
OPP	OPPOSITE
OH	OPPOSITE HAND
OWSJ	OPEN WEB STEEL JOIST
P	POWDER DRIVEN FASTENER
PDF	POWDER DRIVEN FASTENER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	FOR WOOD, PRESSURE TREATED FOR CONC. SLAB, POST-TENSIONED
R	REINFORCED CONCRETE
RC	REINFORCED CONCRETE
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
S	SIMILAR
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SP	SOUTHERN PINE
SPA	SPACE
STD	STANDARD
STIFF	STIFFENER
T	TO BE DETERMINED
TBD	TO BE DETERMINED
TBE	TRUSS BEARING ELEVATION
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
TOS	TOP OF SLAB/STEEL / SUBFLOOR
TS	THICKENED SLAB ON GRADE
TYP	TYPICAL
U	UNLESS NOTED OTHERWISE
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
VERT	VERTICAL
W	WOOD BEAM
WB	WOOD BEAM
WC	WOOD COLUMN
WCJ	WALL CONTROL JOINT
WHC	WOOD HOLLOW (BOX) COLUMN
WSP	WOOD STUD PACK/ BUILT-UP COLUMN
WT	WEIGHT
MISC	MISC
(H)	HIGH
(L)	LOW

STRUCTURAL GENERAL NOTES

- GENERAL**
- NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
 - CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
 - REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TENDING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
 - CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
 - MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
 - CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION, FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
 - CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATIONS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
 - CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
 - CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
 - THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONTRACTIBILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC.
 - CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
 - REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR.
 - SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE SEALED BY ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE SEALED BY ENGINEER LICENSED IN PROJECT STATE.
 - WHERE A SECTION OR DETAIL IS SHOWN OR DETAILED FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR. THE CONTRACTOR SHALL CONSIDER ALL OF THE CONTRACT DOCUMENTS IN DETERMINING SIMILAR AND LIKE CONDITIONS.
- CODE DESIGN**
- STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA RESIDENTIAL BUILDING CODE.
 - GRAVITY LOADS
 - UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

RESIDENTIAL	40 PSF
DECKS AND PORCHES	40 PSF
CANTILEVERED BALCONIES	60 PSF
STAIRS	60 PSF
HANDRAIL/GUARDRAIL	50 PLF (200 LBS POINT LOAD)
GUARD INFILL	50 LBS
PASSENGER VEHICLE GARAGES	50 PSF (2000-LBS POINT LOAD)
UNCOND. ATTIC W/ STORAGE	20 PSF
HABITABLE ATTIC	40 PSF
 - UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ROOF	20 PSF
PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN DESIGN.	
 - WIND LOADS: SEE TABLE
 - ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS: L/360 OR 1 IN.	L/360	L/360
FLOOR MEMBERS: L/480	L/480	L/360

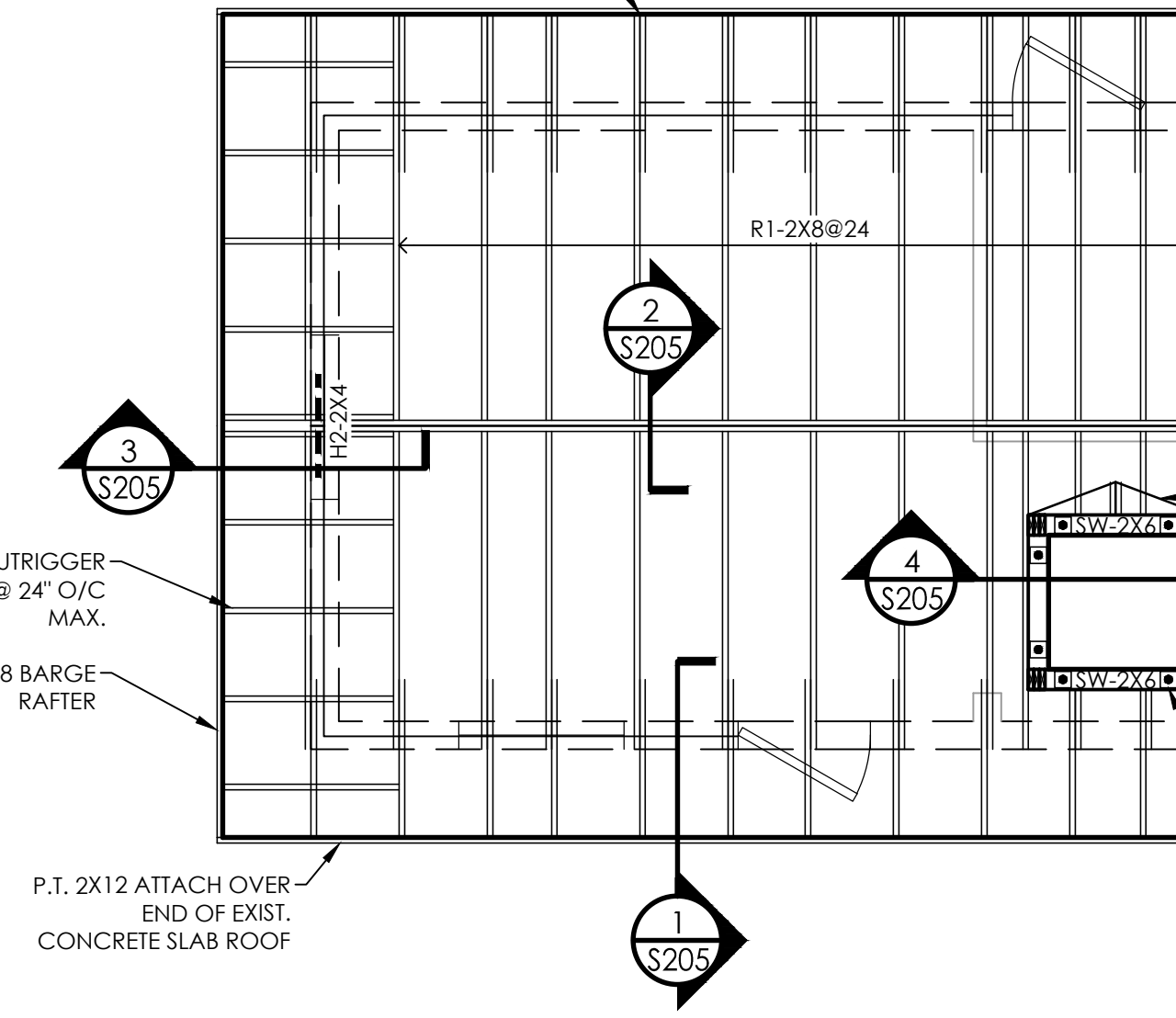
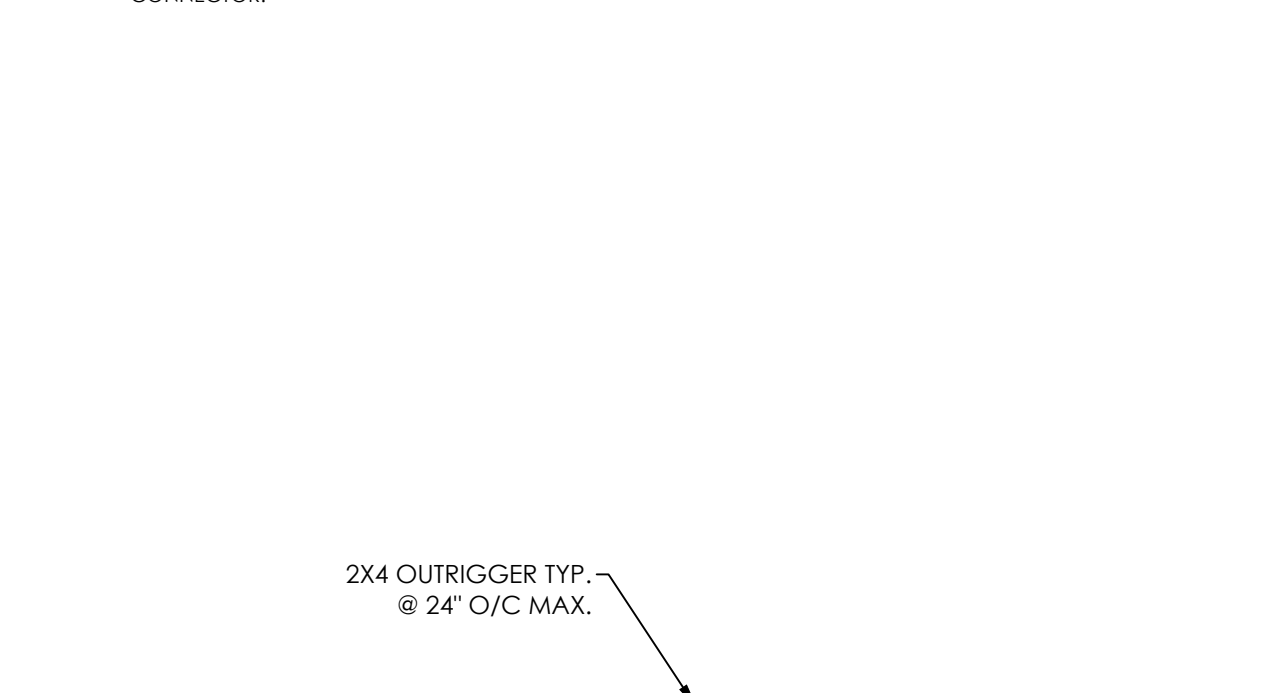
 WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN CENTERLINES OF SUPPORTS. (FOR CANTILEVERS, IT IS TWICE THE LENGTH OF THE CANTILEVER.)

POST INSTALLED ANCHORS

- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQD BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT. CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
 - CONCRETE ANCHORS
 - MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC 193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2173)
 - SIMPSON STRONG-TIE "STRONG-BOLT Z" (ICC-ES ESR-3037)
 - ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC 308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
 - HILTI HIT HY200 INJECTION ADHESIVE
 - MASONRY ANCHORS
 - ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:
 - MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC104. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
 - SIMPSON STRONG-TIE "STRONG-BOLT Z" (SIMPSON-ES ESR-0240)
 - SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)
 - ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - SIMPSON STRONG-TIE "SET-XP" (SIMPSON-ES ESR-0245)
 - HILTI HIT HY200 INJECTION ADHESIVE

WOOD

- ALL WOOD FRAMING INCLUDING TRUSSES SHALL CONFORM TO THE LATEST EDITIONS OF AMERICAN INSTITUTE OF TIMBER CONSTRUCTION PUBLICATIONS AND STANDARDS.
- PROVIDE DRESSED SEASONED LUMBER SOUTHERN PINE NO.2 OR BETTER, S4S, WITH A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DRESSING.
- WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-TREATED. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD. THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESSURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS.
- STRUCTURAL PANELS
 - SEE SCHEDULE FOR PANEL AND FASTENING SCHEDULE.
 - FLOOR PANELS SHALL BE CONSTRUCTED WITH TONGUE AND GROOVE APA RATED PLYWOOD.
 - WALL & ROOF PANELS SHALL BE CONSTRUCTED WITH APA RATED SHEATHING.
 - NAIL HEADS SHALL NOT PENETRATE THE OUTER SURFACE OF SHEATHING.
- CONNECTIONS
 - CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED (U.N.O.) STRUCTURAL CONNECTORS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR EQUIVALENT USP STRUCTURAL CONNECTORS.
 - IF STRUCTURAL HARDWARE CALL OUTS REFER TO SIMPSON STRONG-TIE BRAND PRODUCTS, USP STRUCTURAL CONNECTORS ARE ACCEPTABLE FOR USE BASED ON THE REFERENCE NUMBER IDENTIFIED ON THEIR PRODUCTS IF THE SAME LEVEL OF CORROSION PROTECTION IS PROVIDED.
 - SUBSTITUTIONS SHALL BE SUBMITTED TO EOR FOR REVIEW.
 - THE NUMBER OF FASTENERS PER CONNECTION SHALL BE THE MAX. RECOMMENDED BY MFR. FOR THAT PARTICULAR CONNECTOR.
 - THE CORROSION PROTECTION OF FASTENERS SHALL MATCH THE LEVEL OF CORROSION PROTECTION OF STRUCTURAL TIMBER.



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

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITION OF EXISTING CONCRETE ROOF SLAB.
- REPAIR CONCRETE SLAB SPALLS & RUSTED REINFORCING BARS PER S/5205 DETAIL PRIOR TO ROOF FRAMING.

WOOD FRAMING SCHEDULE

MARK	TYPE	SIZE	NOTES
WALL FRAMING			
SW2X4	LOAD BEARING WALL	2X4 STUDS @ 16" O/C W/ CONT. SILL & DBL. TOP PL.	TYP. WALL, U.N.O.
SW2X6	LOAD BEARING WALL	2X6 STUDS @ 16" O/C W/ CONT. SILL & DBL. TOP PL.	TYP. WALL @ CHIMNEY
H2-2X4	HEADER	2-2X4	TYP. @ ATTIC VENT
ROOF FRAMING			
R1-2X8@24	RAFTER	1-2X8 @ 24" O/C	TIE TO BEARING PL. W/ H10AZ. ATTACH TO BLOCKING @ RIDGE W/ L30z ANGLE

- FRAMING SCHEDULE NOTES:**
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONC. SHALL BE PRESSURE TREATED.
 - ALL CONNECTORS EXPOSED TO WEATHER SHALL BE GALVANIZED (ZMAX).

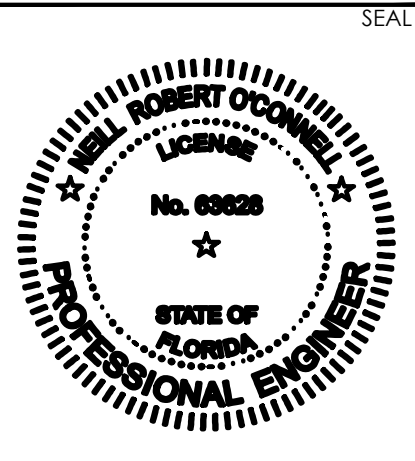
CONTRACTOR NOTE:

THESE CONSTRUCTION DOCUMENTS ARE BASED ON ASSUMED EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTIONS. ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.

PLAN NOTES:

- FOR GENERAL NOTES AND DESIGN LIVE LOADS SEE SHEET S204. FOR DETAILS SEE SHEET S205.
- SEE ARCH. PLANS FOR DEMO PLANS. COORDINATE WITH OWNER THE SCOPE OF DEMO WORK.
- SEE ARCH. DRAWINGS FOR SLOPES, OPENINGS, AND DIMENSIONS NOT SHOWN. ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING OF ALL CONFLICTS.

O'CONNELL & ASSOCIATES
CONSULTING ENGINEERS, LLC.
CERT. OF AUTH. #00549 Beach FL 20459
1994 Co. No. 28254-0000
(850) 403-4555 www.oconnelleng.com



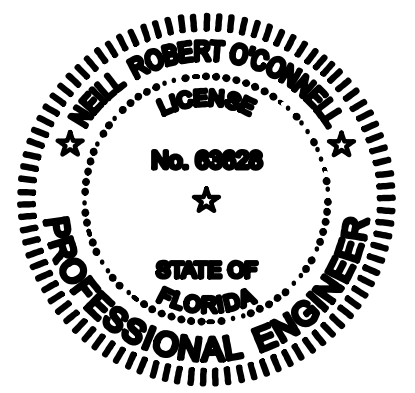
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: **NEIL O'CONNELL, P.E.**
ON: **JANUARY 2, 2019**
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CITY OF FORT WALTON BEACH
WELL NO. 2 MODIFICATIONS
12 HUGHES STREET NE
FORT WALTON BEACH, FLORIDA

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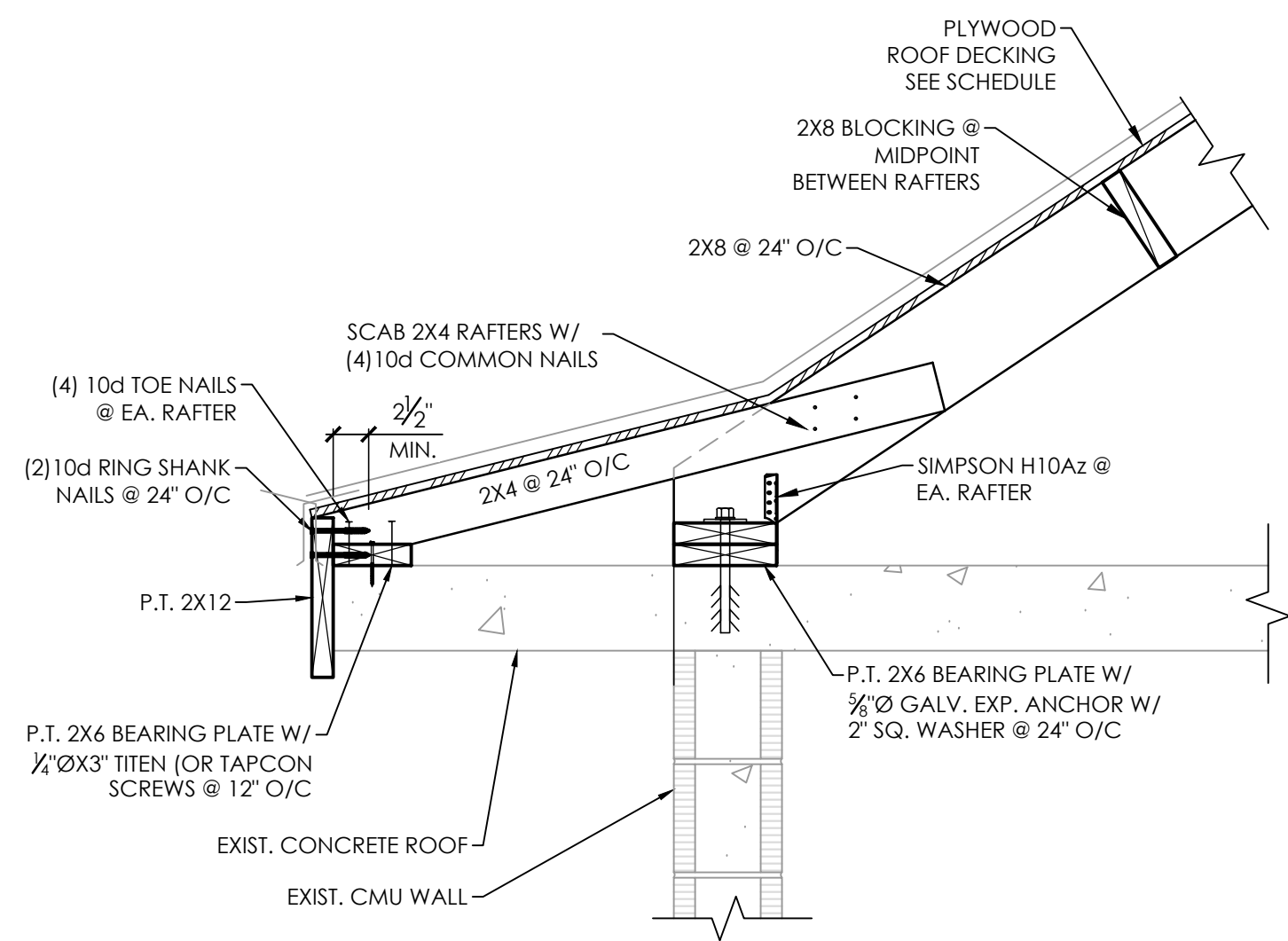
TITLE: **WELL HOUSE ROOF GENERAL NOTES & ROOF PLAN**

SHEET NO: **S204**

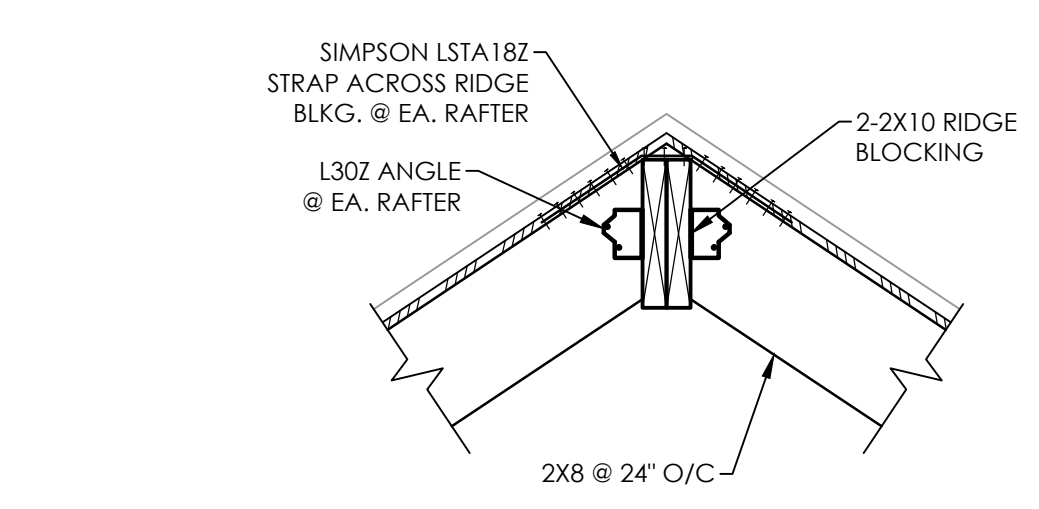


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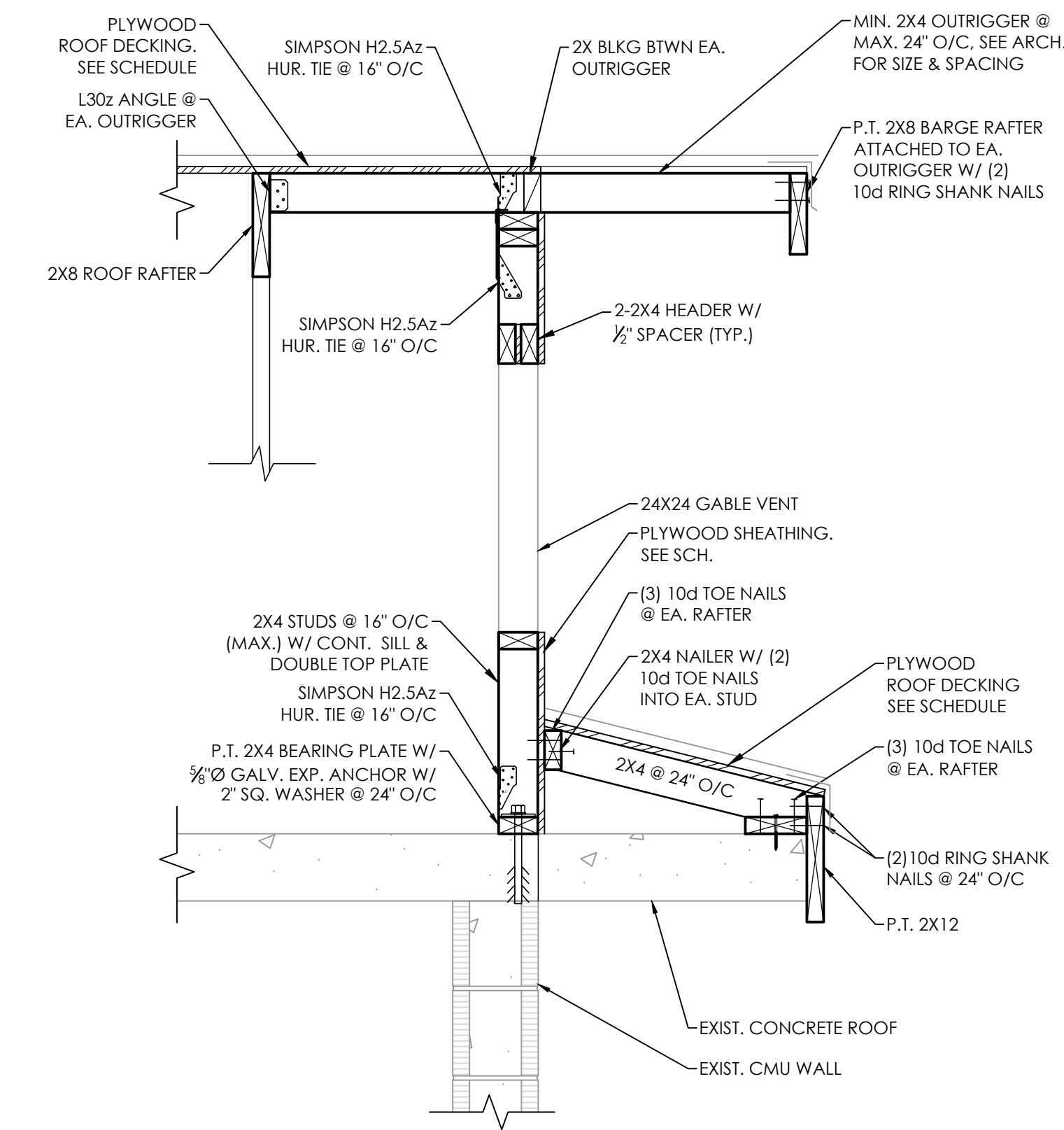
CITY OF FORT WALTON BEACH
WELL NO. 2 MODIFICATIONS
12 HUGHES STREET NE
FORT WALTON BEACH, FLORIDA



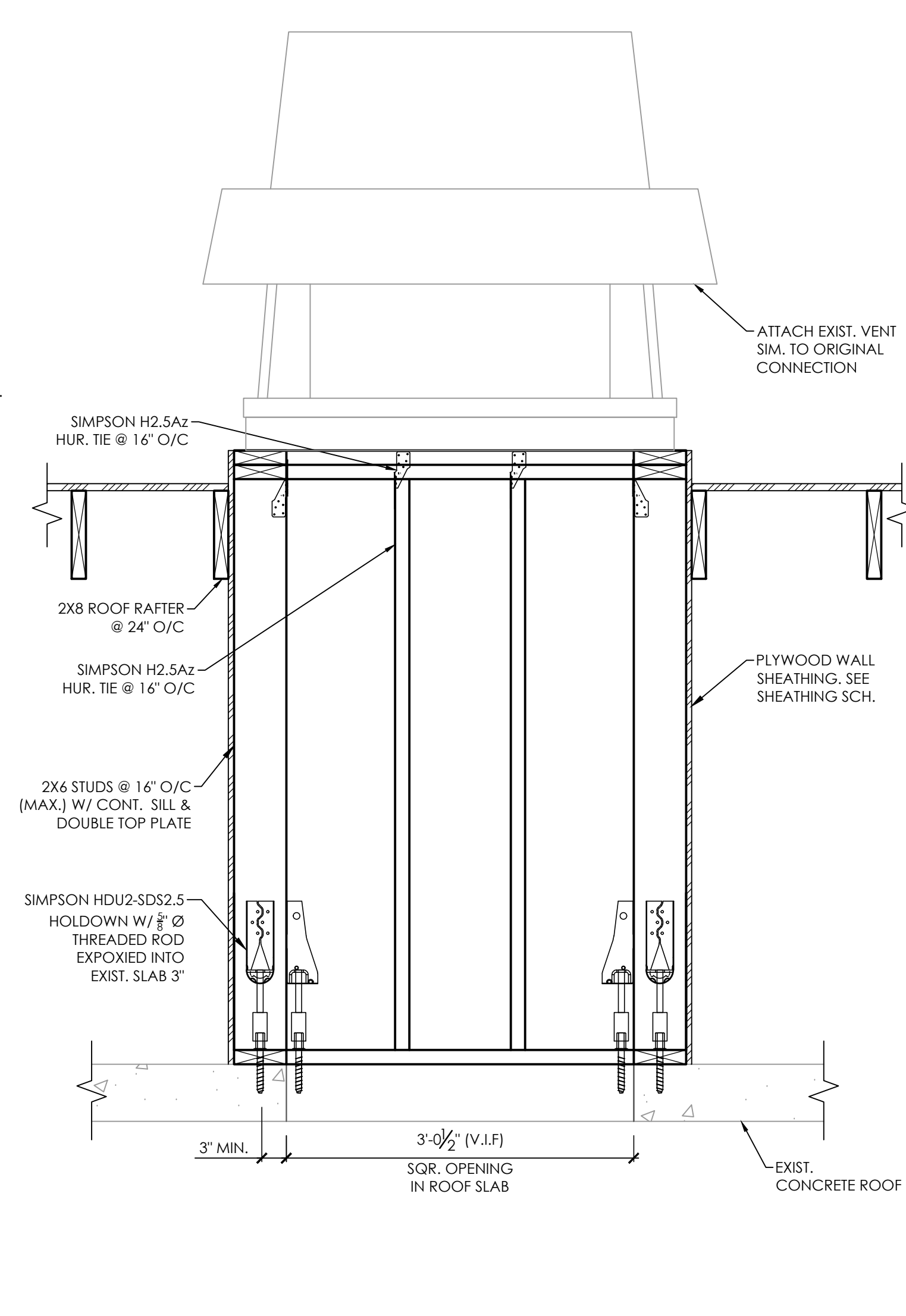
1 TYP. ROOF RAFTER BEARING DETAIL
SCALE: 1"=1'-0"



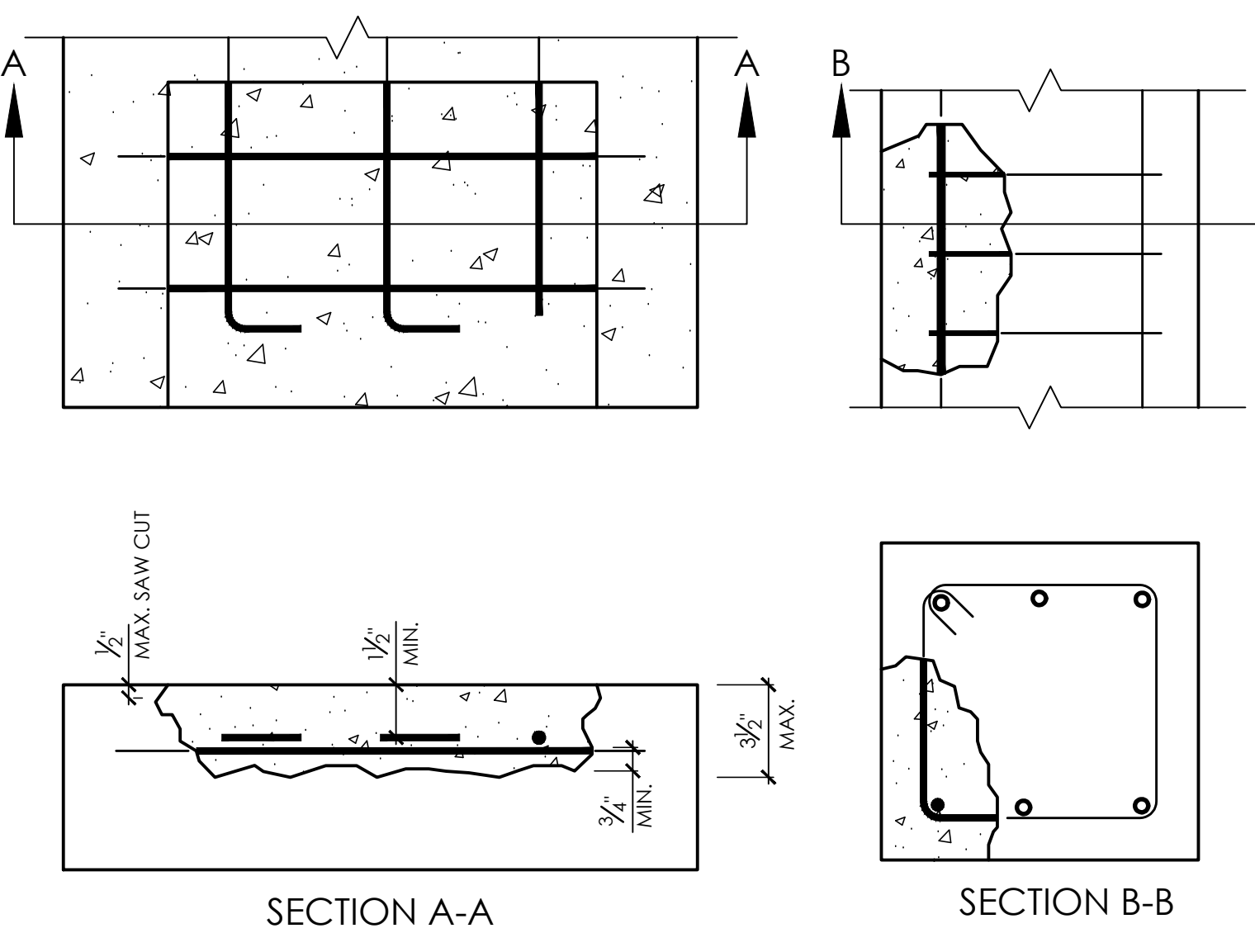
2 TYP. ROOF FRAMING DETAIL @ RIDGE
SCALE: 1"=1'-0"



3 ROOF FRAMING DETAIL @ GABLE END
SCALE: 1"=1'-0"



4 ROOF FRAMING DETAIL @ CHIMNEY
SCALE: 1"=1'-0"



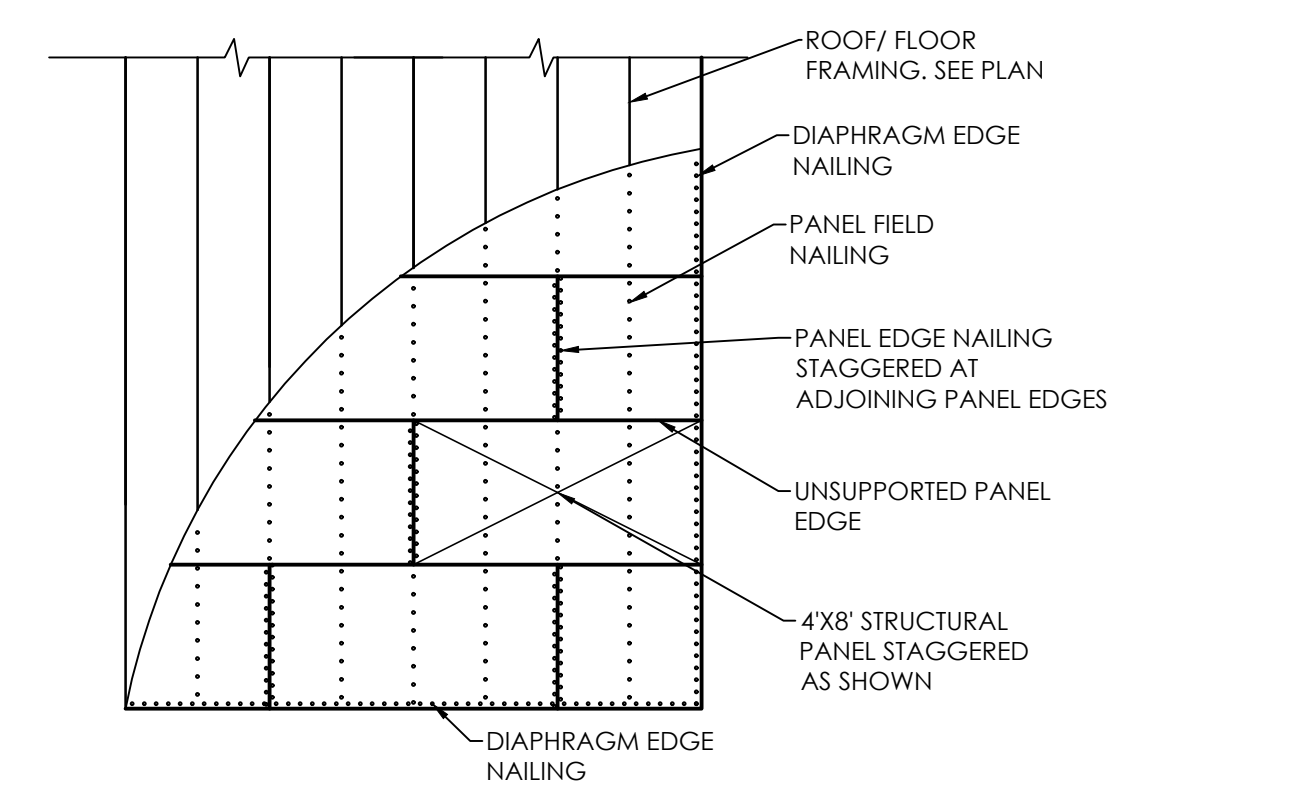
5 CONCRETE REPAIR (TYPICAL LAYOUT)
SCALE: N.T.S.

EXPOSING & UNDERCUTTING OF REINFORCING STEEL

- REMOVE LOOSE OR DELAMINATED CONCRETE ABOVE CORRODED REINFORCING STEEL BASED ON AREA MARKED BY O&ASSOC.
- ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED CORRODED BARS. UNDERCUTTING WILL PROVIDE CLEARANCE FOR UNDER BAR CLEANING & FULL BAR CIRCUMFERENCE BONDING TO SURROUNDING CONCRETE, & WILL SECURE THE REPAIR STRUCTURALLY. PROVIDE MINIMUM 3/4" CLEARANCE BETWEEN EXPOSED REBARS & SURROUNDING CONCRETE OR 1/4" LARGER THAN LARGEST AGGREGATE IN REPAIR MATERIAL, WHICHEVER IS GREATER.
- CONCRETE REMOVALS SHALL EXTEND ALONG THE BARS TO LOCATIONS ALONG THE BAR FREE OF BOND INHIBITING CORROSION, & WHERE THE BAR IS WELL BONDED TO SURROUNDING CONCRETE.
- IF NON-CORRODED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS, CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF BOND BETWEEN BAR & CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
- ALL HEAVY CORROSION & SCALE SHOULD BE REMOVED FROM THE BAR AS NECESSARY TO PROMOTE MAXIMUM BOND OF REPLACEMENT MATERIAL. OIL FREE ABRASIVE BLAST IS THE PREFERRED METHOD. A TIGHTLY BONDED LIGHT RUST BUILD-UP ON THE SURFACE IS USUALLY NOT DETRIMENTAL TO BOND, UNLESS A PROTECTIVE COATING IS BEING APPLIED TO THE BAR SURFACE. IN WHICH CASE THE COATING MANUFACTURER'S RECOMMENDATIONS FOR SURFACE PREPARATION SHOULD BE FOLLOWED.
- REMOVE DELAMINATED CONCRETE, UNDERCUT REINFORCING STEEL, REMOVE ADDITIONAL CONCRETE AS REQUIRED TO PROVIDE MINIMUM REQUIRED THICKNESS OF REPAIR MATERIAL.
- AT EDGE LOCATIONS, PROVIDE RIGHT ANGLE CUTS TO THE CONCRETE SURFACE WITH EITHER OF THE FOLLOWING METHODS:
 - SAW CUT 1/2" OR LESS AS REQUIRED TO AVOID CUTTING REINFORCING STEEL.
 - USE POWER EQUIPMENT SUCH AS HYDRODEMOLITION OR IMPACT BREAKERS. AVOID FEATHER EDGES.
- REPAIR CONFIGURATIONS SHOULD BE KEPT AS SIMPLE AS POSSIBLE, PREFERABLY WITH SQUARED CORNERS.
- AFTER REMOVALS & EDGE CONDITIONING ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT, CONCRETE SLURRY, LOOSELY BONDED AGGREGATES) BY ABRASIVE BLASTING OR HIGH PRESSURE WATERBLASTING WITH OR WITHOUT ABRASIVE. CHECK THE CONCRETE SURFACES AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.
- IF HYDRODEMOLITION IS USED, CEMENT & PARTICULATE SLURRY MUST BE REMOVED FROM THE PREPARED SURFACES BEFORE SLURRY HARDENS.
- ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS OR BY OTHER APPROVED METHODS.

WALL, FLOOR & ROOF PANELS SCHEDULE

LOC.	SHEATHING	UNSUPPORTED EDGE	FIELD NAILING	EDGE NAILING
EXT. WALL	1/2" APA RATED PLYWOOD SHEATHING	10d COMMON NAILS @ 4" O/C INTO BLKG	10d COMMON NAILS @ 6" O/C	10d COMMON NAILS @ 4" O/C
ROOF	1/2" APA RATED PLYWOOD SHEATHING	SIMPSON PSC1 1/2 CLIP	10d RING SHANK NAILS @ 6" O/C (MAX.)	10d RING SHANK NAILS @ 4" O/C (MAX.)



6 WOOD PANELS SCHEDULE & DETAIL
SCALE: N.T.S.

DESCRIPTION:

REV. #	DATE	BY	DATE	ISSUE	FOR REVIEW ONLY	LMD	CHECKED BY	NOC

TITLE: **WELL HOUSE ROOF STRUCTURAL DETAILS**

SHEET NO: **S205**