

ENGLEWOOD WATER DISTRICT V-1 IMPROVEMENTS CONSTRUCTION PLAN

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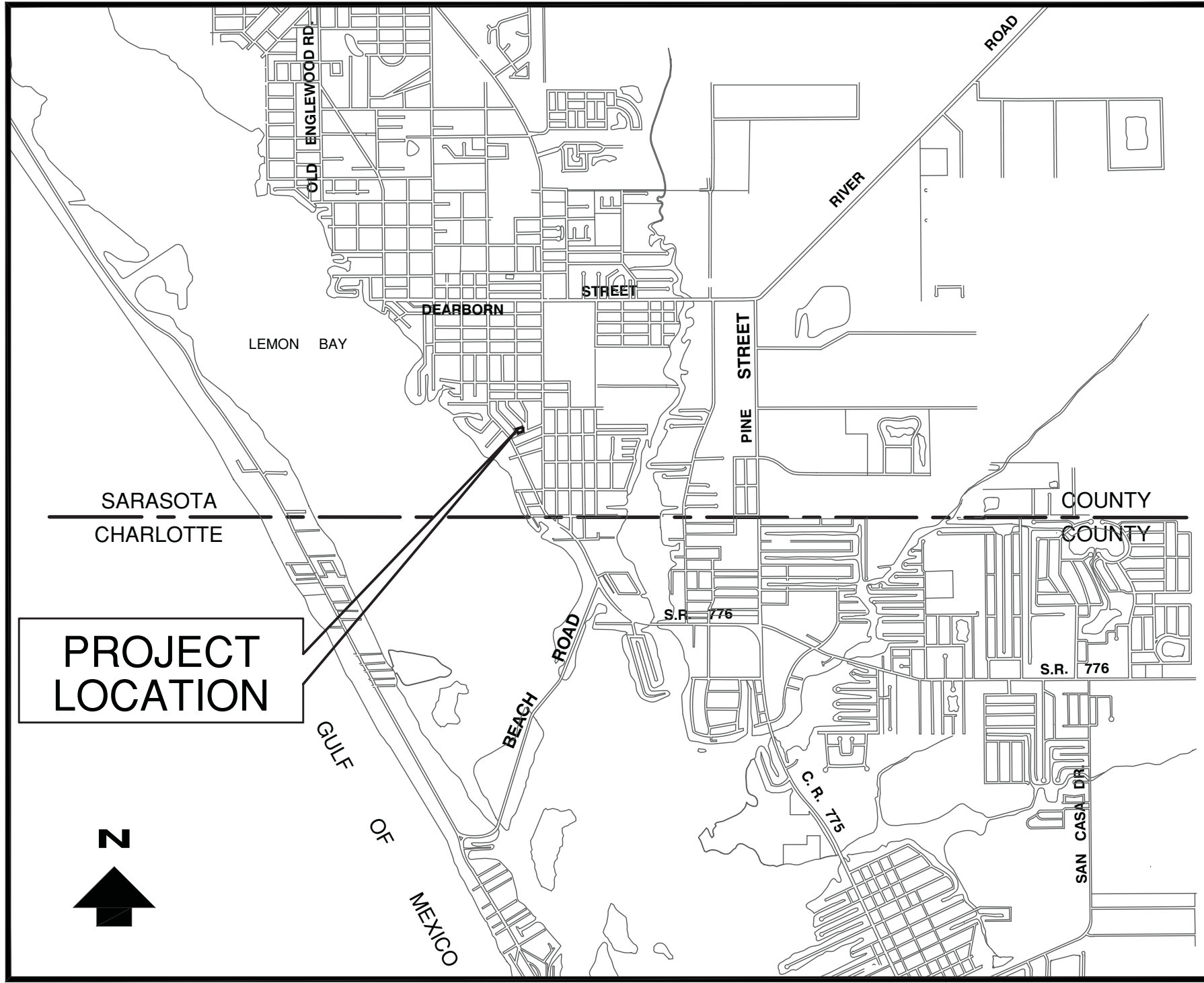
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All elevations are based on North American Vertical Datum (NAVD) 1988, unless otherwise noted. Coordinates are in the Florida West Zone / NAD 83-90 State Plane FEET Coordinate System.

The Contractor is responsible for compliance with the applicable technical requirements of the Englewood Water District (EWD) Details and Standards which are not included with the engineering drawings but are available for download on the EWD website at <http://www.Englewoodwater.com/Engineering>. Any exception(s) to the Details and Standards are included in the Special Provisions of the Bid documents.

48 HOURS BEFORE DIGGING
" CALL SUNSHINE "
1-800-432-4770

ATTENTION IS DIRECTED TO THE FACT THAT
THESE DRAWINGS MAY HAVE BEEN REDUCED
IN SIZE BY REPRODUCTION. REFER TO SCALE
BAR INCLUDED ON EACH SHEET WHEN
OBTAINING SCALED DATA.



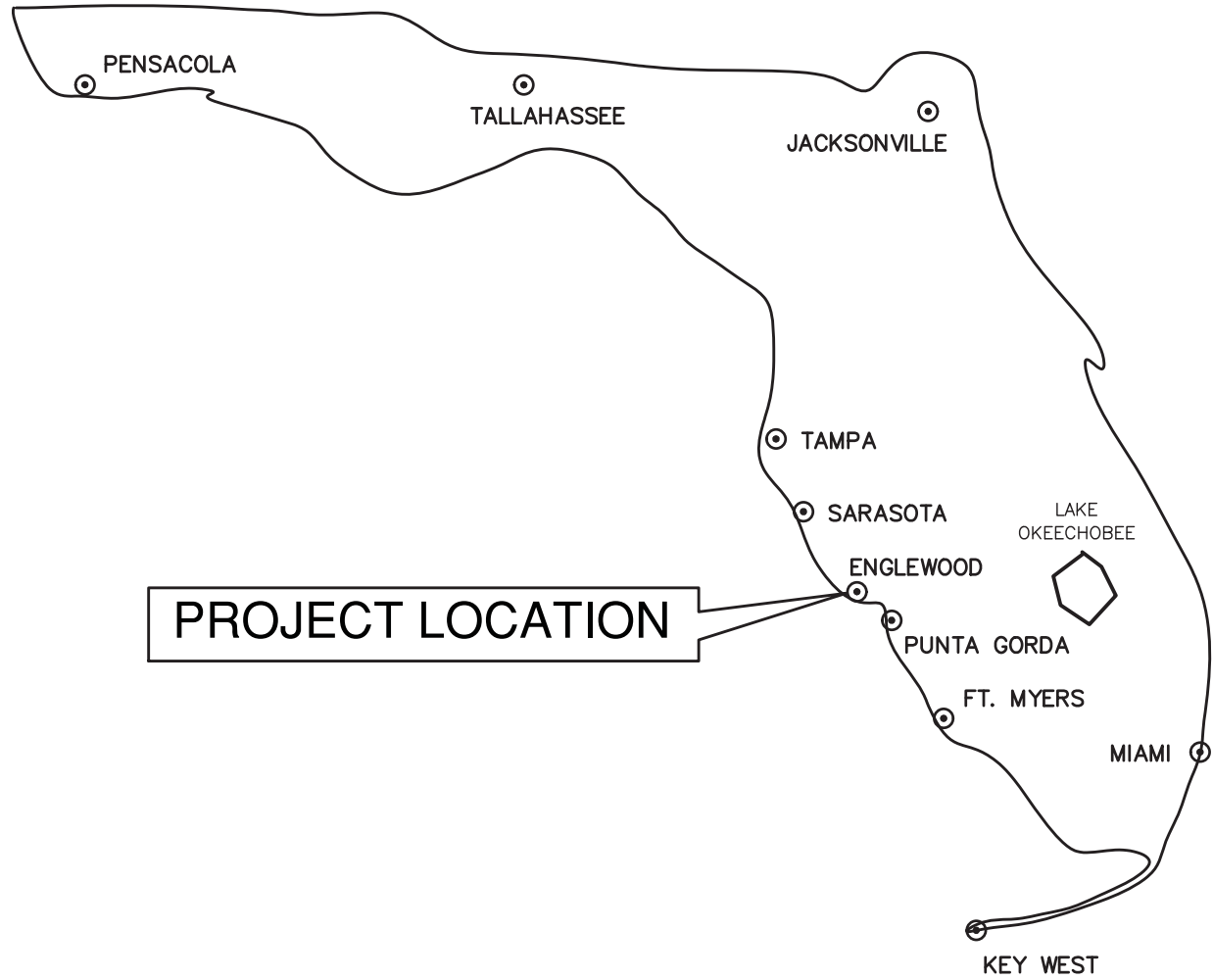
LOCATION MAP

These plans prepared by:

Giffels-Webster Engineers, Inc.

900 Pine Street, Suite 225
Englewood, FL 34223
941-475-7981

Certificate of Authorization No. 3067



UTILITY
ENGLEWOOD WATER DISTRICT
201 SELMA AVENUE
ENGLEWOOD, FLORIDA 34223

BOARD OF SUPERVISORS

ROBERT C. STERN JR., CHAIR
TAYLOR MEALS, VICE CHAIR
SYDNEY B. CRAMPTON
STEVE SAMUELS
PHYLLIS WRIGHT

RAY BURROUGHS, ADMINISTRATOR

KEITH LEDFORD, P.E.,
TECHNICAL SUPPORT MANAGER

CONSTRUCTION AND MATERIALS SHALL BE IN
ACCORDANCE WITH ENGLEWOOD WATER DISTRICT (EWD)
STANDARDS AND SPECIFICATIONS.

DATE

DENNIS J. CROYLE, P.E.

FLORIDA P.E. No. 82287

SHEET NO. 1
MARCH 2023

PROJECT NO. 6524.00

\\M:\6500\s\6524 EWD V-1 Station Rehab\6524 V-1 REHAB.DWG, 3/20/2023 1:23:02 PM

GENERAL CONSTRUCTION NOTES:

1.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ENGLEWOOD WATER DISTRICT REGULATIONS AND COUNTY STANDARDS.
2.

THERE SHALL BE NO CHANGE OR DEVIATION OF THESE PLANS OR SPECIFICATIONS UNLESS PRIOR WRITTEN APPROVAL FROM THE ENGINEER IS OBTAINED.
3.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF AND WHEN A POSSIBLE ERROR IS FOUND IN THE PLANS OR STAKED ALIGNMENT AND/OR GRADES. THE ENGINEER MAY ACCEPT, REVISE TO ACCOMMODATE CONDITIONS, OR REJECT THE FACILITY BEING CONSTRUCTED. IT IS IMPERATIVE THAT THE CONTRACTOR NOTIFY THE ENGINEER OF THESE SITUATIONS AS SOON AS POSSIBLE, PRIOR TO EXPENDITURE OF FUNDS.
4.

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY ON-SITE OR OFF-SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND REPORT THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS, WHETHER THEY ARE IDENTIFIED ON THE DRAWINGS OR NOT.
5.

CONTRACTOR SHALL INCLUDE IN HIS BID PRICE THE COST OF EROSION CONTROL. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT SHALL BE OBSERVED DURING CONSTRUCTION BY THE CONTRACTOR. THE METHODS WHICH SHOULD BE USED INCLUDE BUT ARE NOT LIMITED TO:

A.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION ENTERING THE STORM DRAINAGE SYSTEM BOTH ON-SITE AND OFF-SITE. THE CONTRACTOR SHALL UTILIZE SILT FENCE AND HAY BALES OR OTHER EROSION CONTROL METHODS TO CONTROL EROSION.

B.

CONTRACTOR SHALL PLACE SOD AROUND ALL INLETS A MINIMUM OF 3 FEET TO MINIMIZE ROAD AND STORM DRAINAGE SILTATION.

C.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING CONSTRUCTION BY UTILIZING WATER TRUCKS, ANTI-DRAFT FENCING AND BY COVERING OPEN BODIED TRUCKS TRANSPORTING DEBRIS.

D.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MONITORING OF TURBIDITY LEVELS OF ANY WATER DISCHARGE OFF-SITE. TURBIDITY SAMPLE LOCATIONS WILL BE VERIFIED BY THE ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION.
6.

THE CONTRACTOR SHALL SOD ALL DRAINAGE RETENTION, SWALE AREAS, BACK OF CURBS, AND PAVEMENT EDGES. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL THE COMPLETION AND ACCEPTANCE OF THE TOTAL PROJECT OR UNTIL, IN THE OPINION OF THE ENGINEER, GROWTH IS FIRMLY ESTABLISHED.
7.

THE CONTRACTOR SHALL USE EXTREME CARE NOT TO DAMAGE THE ROOT SYSTEMS OF TREES AND OTHER LANDSCAPE FEATURES WHICH ARE TO BE SAVED AND/OR SALVAGED FOR RESTORATION PURPOSES. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED.
8.

AS PART OF CLEARING AND GRUBBING, ALL DEBRIS IS TO BE REMOVED FROM THE PROJECT SITE AND SALVAGED BY THE CONTRACTOR OR TRANSPORTED TO A LEGAL DISPOSAL AREA.
9.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE JOB SITE, REVIEW THE UTILITY CONSTRUCTION AND DESIGN REQUIREMENTS, PROJECT PERMITS, CONDITIONS, STIPULATIONS, AND RESTRICTIONS AS NECESSARY TO FAMILIARIZE HIMSELF WITH THE ENTIRE PROJECT PRIOR TO BIDDING.
10.

THE CONTRACTOR SHALL SECURE AN INDEPENDENT TESTING LABORATORY DURING CONSTRUCTION TO PERFORM SUCH TESTING AS NEEDED TO CERTIFY THAT THE MATERIAL AND STRUCTURAL COMPONENT SPECIFICATIONS NOTED HAVE BEEN MET. THE CONTRACTOR SHALL ALSO SUBMIT, FOR REVIEW AND TO THE COUNTY FOR APPROVAL, TO THE ENGINEER OF RECORD A MINIMUM OF FOUR COPIES OF SHOP DRAWINGS AND/OR MATERIAL CERTIFICATIONS FOR ALL MATERIALS PRIOR TO ORDERING SAME FOR THE PROJECT.
11.

THE CONTRACTOR SHALL CLEAR THE SITE ONLY TO THE EXTENT NECESSARY TO CONSTRUCT THE REQUIRED IMPROVEMENTS. DEBRIS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR, AT HIS EXPENSE.
12.

ALL DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE AND STABILIZED BY SODDING AND ALL SODDING SHALL BE OF LIKE KNID.
13.

ALL CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE AT CURBS, GUTTERS, SIDEWALKS, INTERSECTIONS, ETC. HANDICAP RAMPS ARE TO BE EMBOSSED PER F.D.O.T. INDEX 304, PAGE 1. SAWCUTTING GROOVES IN RAMPS IS NON-CONFORMING AND SHALL POSE A LIABILITY.
14.

SOD SHALL BE PLACED AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES, AND DETENTION AREAS.
15.

ALL SITE PAVING AND GRADING SHALL BE DONE SO AS TO PRECLUDE ANY PONDED WATER ON FINISHED SITE AND ALL SURFACES SHALL HAVE POSITIVE DRAINAGE.
16.

FILL MATERIAL, PLACED IN THE RIGHT OF WAY, SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY IN SIX (6) INCH LIFTS MAXIMUM - UNLESS SPECIFICATIONS ALLOW OTHERWISE.
17.

FILL MATERIAL UTILIZED SHALL BE TYPE A-3.
18.

CONTRACTOR TO ADHERE TO THE GUIDELINES OF THE FLORIDA "TRENCH AND SAFETY ACT".
19.

ADDITIONAL PROVISIONS CAN BE ADDED AT THE TIME OF ACQUIRING ROW PERMIT APPLICATION AND SHALL BE FOLLOWED AT NO ADDITIONAL COST TO THE COUNTY.
20.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT FPL/VERIZON FOR RESTRAINING OF POLES DURING CONSTRUCTION. ALL ASSOCIATED COSTS WILL BE AT CONTRACTORS EXPENSE.

DATE	REVISION	BY	DATE	REVISION	BY

GWE

Certificate of Authorization No. 3607

GIFFELS-WEBSTER

ENGINEERS, INC.

900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

DATE: 10/22	CKD. BY	DATE
DRAWN: KEF	DJC	10/22
DESIGN: DJC	DJC	10/22
APPROVED:		

STATE OF FLORIDA

ENGINEER

ENGLEWOOD WATER DISTRICT

201 SELMA AVENUE

ENGLEWOOD, FLORIDA 34223

(941) 474-3217

EWD
V-1 IMPROVEMENTS
GENERAL NOTES

SCALE: N/A
SHEET 2
GWE NO. 6524.00

ENGINEER OF RECORD
DENNIS J. CROYLE, P.E.
STATE OF FLORIDA NO. 62287

SITE DATA:

- 1) SITE AREA: 11,007 S.F.
- 2) FEMA: ZONE X - PANEL NO. 12115 C 0453 F (EFFECTIVE DATE: APRIL 4, 2016)
- 3) ELEV: ELEVATIONS BASED ON NAVD 1988 DATUM

- LEGEND
- = WOOD POWER POLE
- = GUY ANCHOR
- = WATER METER
- = WATER BLOW-OFF VALVE
- = WATER GATE VALVE
- = BACKFLOW PREVENTER
- = AIR RELEASE VALVE
- = SEWER VALVE
- = BOLLARD WITH CONCRETE COLLAR
- = ANTENNA ON CONCRETE PAD
- = ELECTRIC SERVICE BOX
- = PALM TREE
- = PLASTIC FENCE
- = CHAIN LINK FENCE
- = CONCRETE
- = SPOT ELEVATIONS
(N.A.V.D. 1988)

REFERENCE PLANS

BOUNDARY SURVEY WITH IMPROVEMENTS
PROVIDED BY: MERIDIAN GROUP OF SOUTH FLORIDA, INC.
JOB NO: 220625, DATED 6-21-2022

GWE

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Certificate of Authorization No. 3607

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DESIGN: DJC	DJC	10/22
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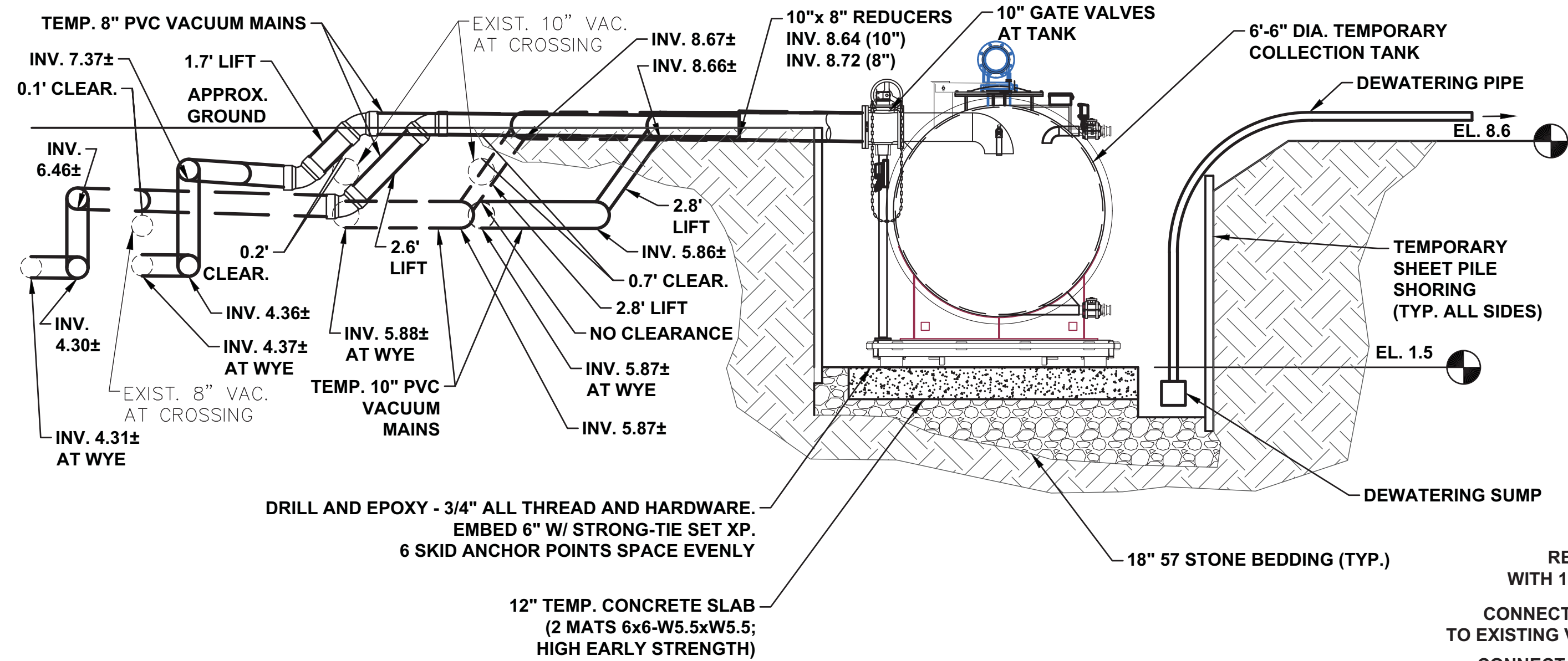
ENGLEWOOD WATER DISTRICT
201 SELMA AVENUE
ENGLEWOOD, FLORIDA 34223
(941) 474-3217

EWD
V-1 IMPROVEMENTS
EXISTING CONDITIONS

SCALE: 1" = 10'
SHEET 3
GWE NO. 6524.00

ENGINEER OF RECORD
DENNIS J. CROYLE, P.E.
STATE OF FLORIDA NO. 62287

MA6500/s6524 EWD V-1 Station Rehab/6524 V-1 REHAB.DWG. 3/20/2023 1:22:27 PM



SECTION A-A
NOT TO SCALE

LEGEND

- WOOD POWER POLE
- GUY ANCHOR
- WATER METER
- WATER BLOW-OFF VALVE
- WATER GATE VALVE
- BACKFLOW PREVENTER
- AIR RELEASE VALVE
- SEWER VALVE
- BOLLARD WITH CONCRETE COLLAR
- ANTENNA ON CONCRETE PAD
- ELECTRIC SERVICE BOX
- PALM TREE
- PLASTIC FENCE
- CHAIN LINK FENCE
- CONCRETE
- SPOT ELEVATIONS (N.A.V.D. 1988)

REFERENCE PLANS

BOUNDARY SURVEY WITH IMPROVEMENTS
PROVIDED BY: MERIDIAN GROUP OF SOUTH FLORIDA, INC.
JOB NO: 220625, DATED 6-21-2022

NOTE:
ADDITIONAL FITTINGS MIGHT
BE NECESSARY TO
CONNECT TO EXIST. 6" F.M.

CONNECT 6"x 6" WYE
TO EXIST. 6" F.M.
AS REQUIRED

TEMPORARY
6" F.M.

MANIFOLD EXIST.
3" HEADER PIPES (4 EA.)
INTO 6" SCH. 80 HEADER
CONNECT TO
TEMP. FLEXIBLE HOSE
FLOOD ZONE "X"
BASE FLOOD ELEVATION= N/A

INSTALL HEADER PIPE
(SEE MULCH BED DESIGN &
SECTIONS)
APPROXIMATE
FLOOD ZONE LIMIT

RELOCATE
EXIST. 8" F.M.
AS REQUIRED
REMOVE & REPLACE
WITH 16"x 34" MULCH BED
CONNECT 8" SOLID SLEEVE
TO EXISTING V.M. AS REQUIRED
CONNECT 8" SOLID SLEEVE
TO EXISTING F.M. AS REQUIRED
VE "AE"
ELEVATION= 11'

INSTALL VALVE PIT (VP3042H)
WITH 6" AIR TERMINAL
INV. 7.36±
INSTALL 3" VALVE
PIT CONNECTION
INSTALL GATE VALVE
& CONNECT SOLID SLEEVE
TO EXISTING V.M.
AS REQUIRED (TYP.)
(5' MIN. FROM WYE)

REMOVE
EXIST.
VALVE PIT

REMOVE
EXIST.
8" F.M.

CONNECT 8"-45° BEND
TO EXIST. 8" F.M.
AS REQUIRED

EXIST. ELECTRIC
SERVICE TO
REMAIN

REMOVE EXIST.
ROOF AND
VACUUM
COLLECTION
TANK, PIPINGS
AND CONTROL
PUMPS

EXIST. DFS
ANTENNA
TO REMAIN

EXIST.
12"x 18" RCP
TO REMAIN

REMOVE EXIST.
CONC. DRIVEWAY
& WALKWAY

INSTALL
TEMP. 6" FLEXIBLE
EXHAUST HOSE

RELOCATE
EXIST. WATER
SERVICE

INSTALL TEMPORARY
VACUUM PUMPS /
CONTROLS SKID

EXIST. FENCE
TO REMAIN

10" G.V. AT
TANK (TYP.)

INV. 8.63
AT TANK (TYP.)

INSTALL TEMPORARY
COLLECTION TANK AND
SEWAGE PUMP SKID

INSTALL DEWATERING
PUMP
(AS REQUIRED)

INSTALL DEWATERING PIPE
TO DRAIN TO SWALE

SECOND AVENUE
(50' RIGHT-OF-WAY)

ALTA VISTA AVENUE
ALTA VISTA ROAD (D)

GWE GIFFELS-WEBSTER
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Fax (941)474-4285

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APPROVED:

CKD BY: DJC
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ENGLEWOOD WATER DISTRICT
201 SELMA AVENUE
ENGLEWOOD, FLORIDA 34223
(941) 474-3217

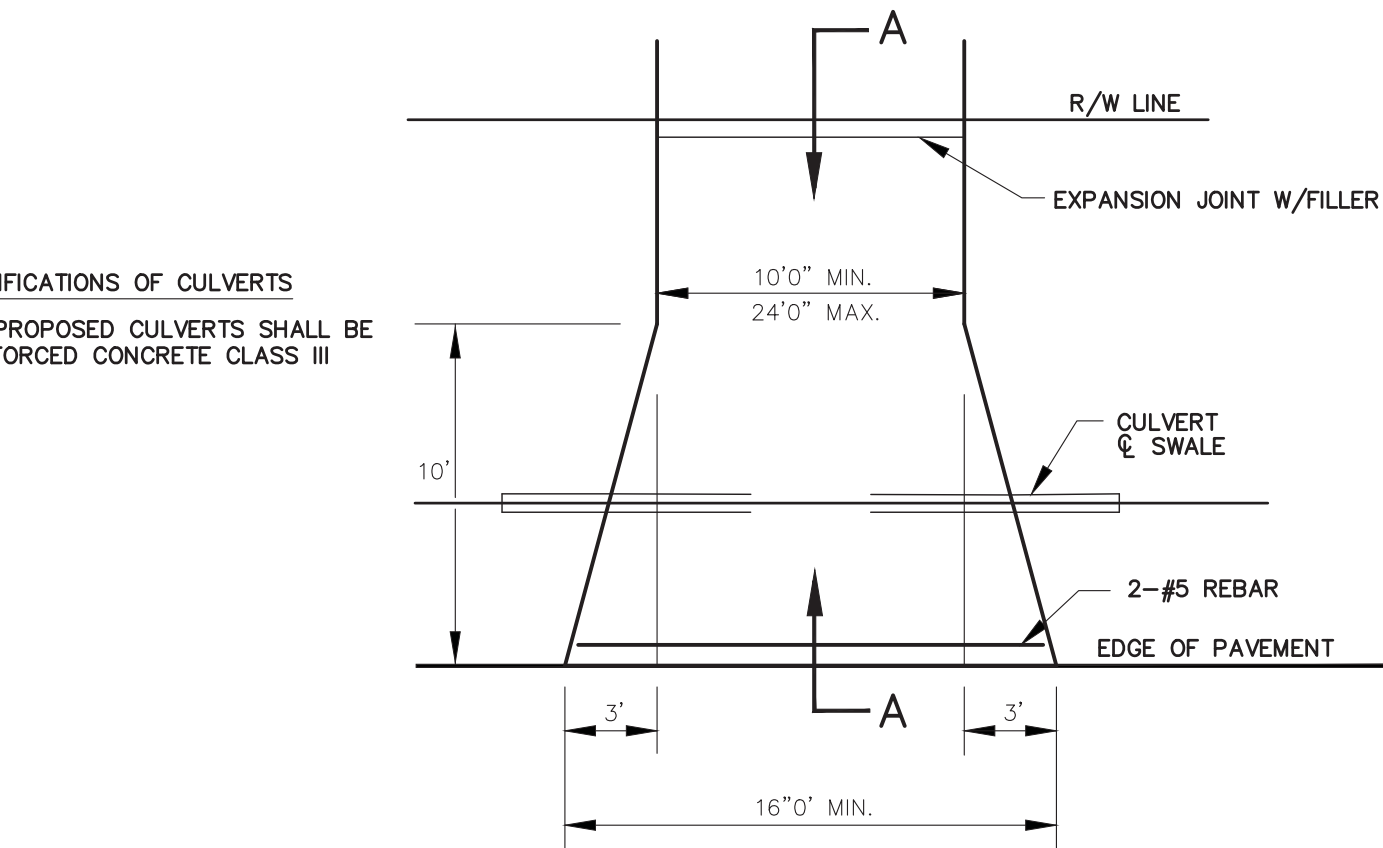
EWD
V-1 IMPROVEMENTS
DEMO & TEMP. YARD PIPING PLANS

SCALE: 1" = 10'
SHEET 4
GWE NO. 6524.00

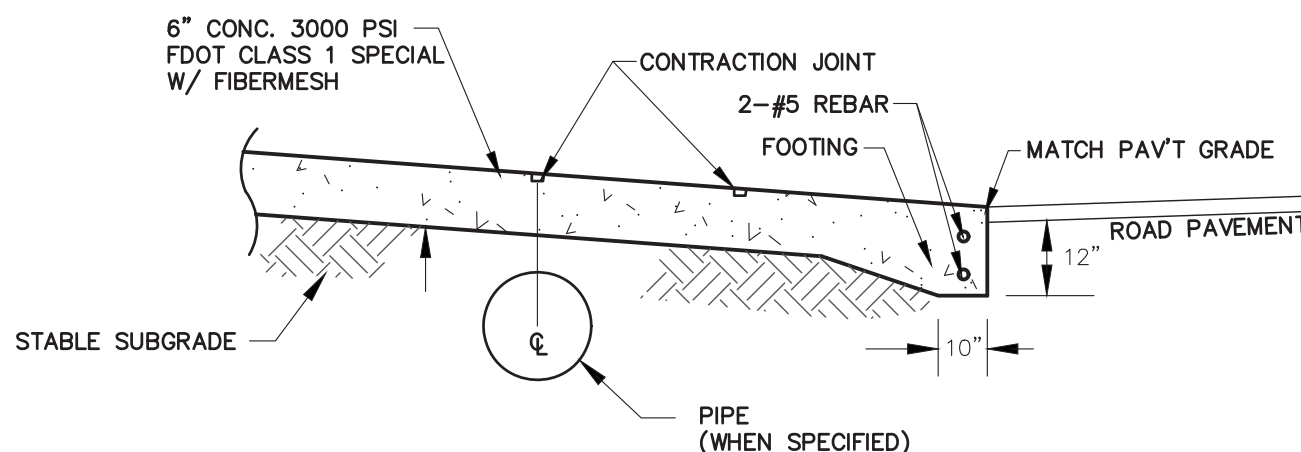
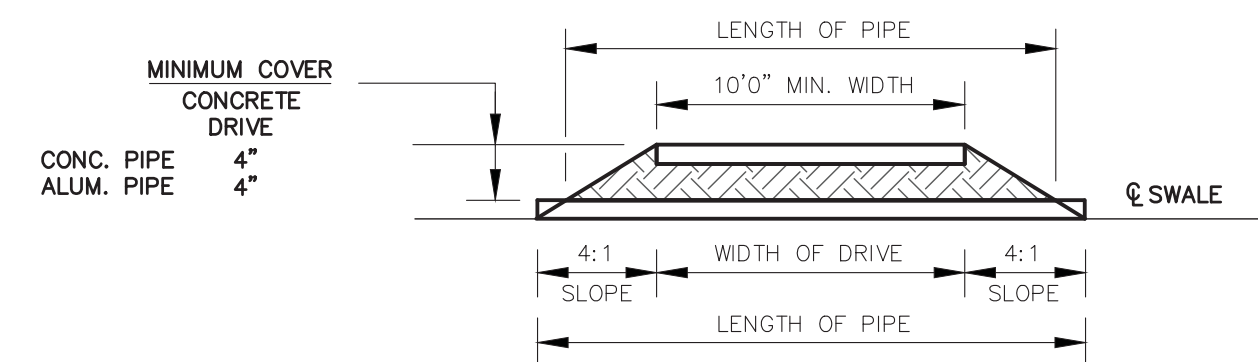
ENGINEER OF RECORD
DENNIS J. CROYLE, P.E.
STATE OF FLORIDA NO. 62287

M:\6500\s\6524 EWD V-1 Station Rehab\6524 V-1 REHAB.DWG. 3/20/2023 1:22:04 PM

SPECIFICATIONS OF CULVERTS
ALL PROPOSED CULVERTS SHALL BE
REINFORCED CONCRETE CLASS III



PLAN
NOT TO SCALE



SECTION "A-A"

- NOTE:
- SWALES LESS THAN 0.70 OF A FOOT BELOW THE EDGE OF PAVEMENT MAY NOT REQUIRE A CULVERT, BUT SWALES EXCEEDING 0.70 OF A FOOT WILL REQUIRE A CULVERT. THE CULVERT SIZE TO BE SPECIFIED BY THE COUNTY INSPECTOR.
 - DRIVEWAY CONSTRUCTION TO CONFORM TO SARASOTA COUNTY ORDINANCE.
 - PROPOSED DRIVEWAYS TO BE CONSTRUCTED WITH CONCRETE UNLESS OTHERWISE

CONCRETE DRIVEWAY DETAIL
NOT TO SCALE

LEGEND

- WOOD POWER POLE
- GUY ANCHOR
- WATER METER
- WATER BLOW-OFF VALVE
- WATER GATE VALVE
- BACKFLOW PREVENTER
- AIR RELEASE VALVE
- SEWER VALVE
- BOLLARD WITH CONCRETE COLLAR
- ANTENNA ON CONCRETE PAD
- ELECTRIC SERVICE BOX
- PALM TREE
- PLASTIC FENCE
- CHAIN LINK FENCE
- CONCRETE
- SPOT ELEVATIONS (N.A.V.D. 1988)

REFERENCE PLANS

BOUNDARY SURVEY WITH IMPROVEMENTS
PROVIDED BY: MERIDIAN GROUP OF SOUTH FLORIDA, INC.
JOB NO: 220625, DATED 6-21-2022

NOTE:
THE DRIVEWAY CULVERT SIZE,
SUMP AND MATERIAL ARE SUBJECT TO
CHANGE AS A FUNCTION OF DESIGN
REQUIREMENTS, FUTURE DRAINAGE
PROJECTS OR FIELD CONDITIONS AS
DETERMINED BY COUNTY
RIGHT-OF-WAY DEPARTMENT
AT THE TIME OF LINE AND GRADE
INSPECTIONS.

FLOOD ZONE "X"
BASE FLOOD ELEVATION= N/A

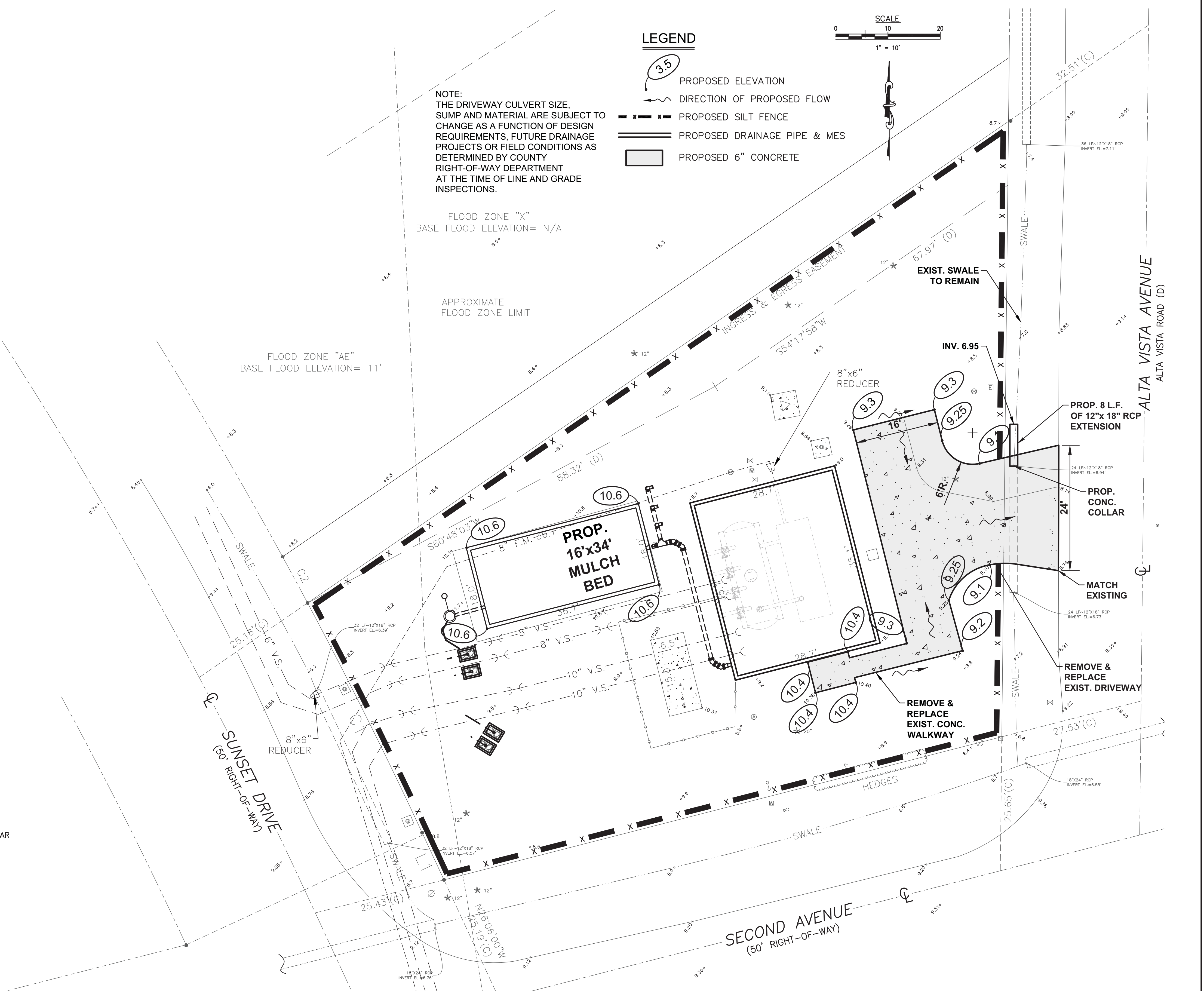
APPROXIMATE
FLOOD ZONE LIMIT

FLOOD ZONE "AE"
BASE FLOOD ELEVATION= 11'

LEGEND

- PROPOSED ELEVATION
- DIRECTION OF PROPOSED FLOW
- PROPOSED SILT FENCE
- PROPOSED DRAINAGE PIPE & MES
- PROPOSED 6" CONCRETE

SCALE
0 10 20
1" = 10'



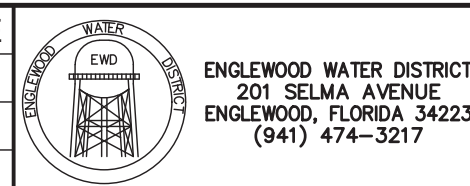
DATE	REVISION	BY	DATE	REVISION	BY

GWE GIFFELS-WEBSTER
ENGINEERS, INC.
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900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475-7981
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APPROVED:

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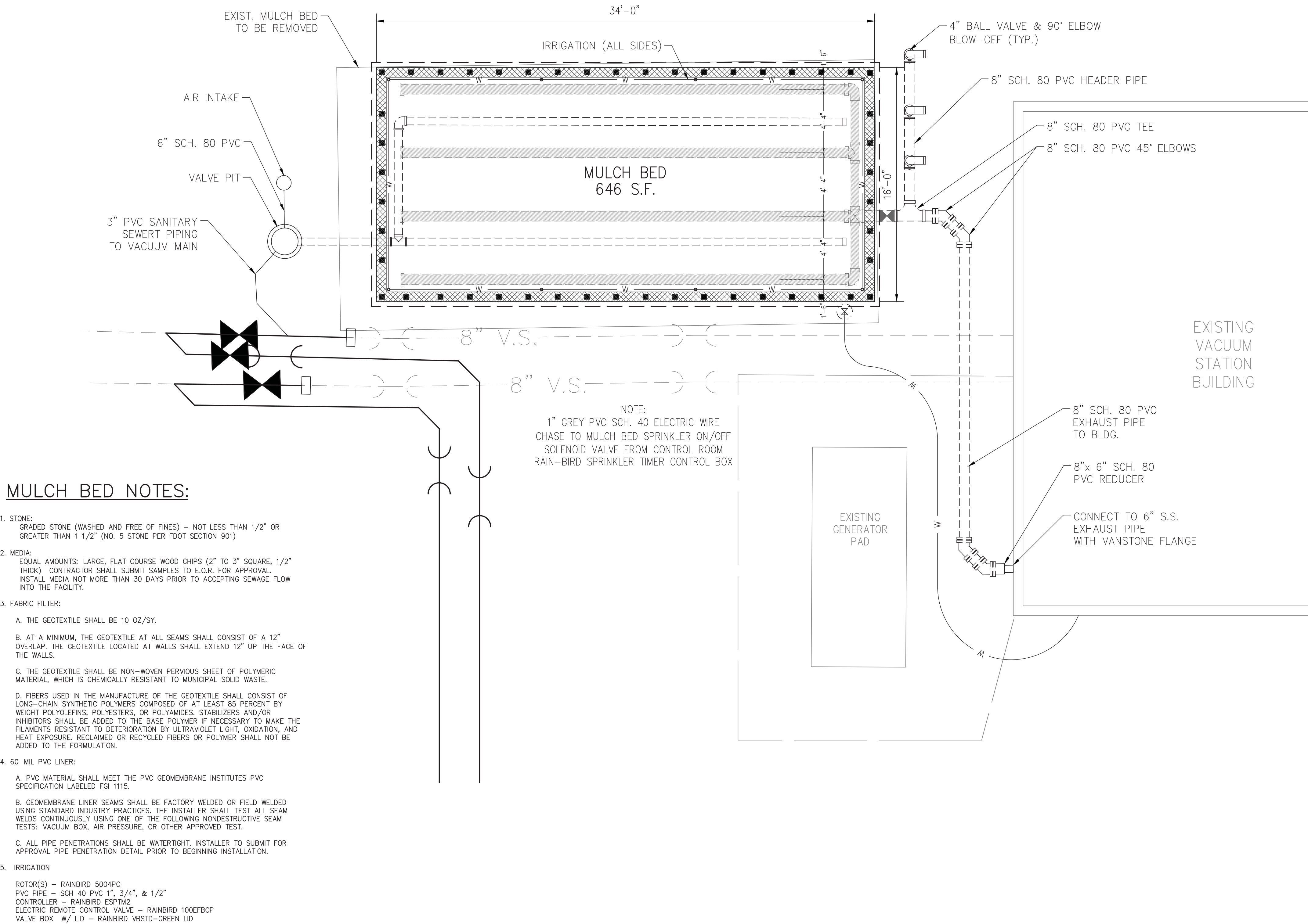


EWD
V-1 IMPROVEMENTS
SITE GRADING & DRAINAGE PLANS

SCALE: 1" = 10'
SHEET 6
GWE NO. 6524.00

ENGINEER OF RECORD
DENNIS J. CROYLE, P.E.
STATE OF FLORIDA NO. 62287

MA:6500's6524 EWD V-1 Station Rehab6524 V-1 MULCH BED.dwg, 4/4/2023 2:52:22 PM



TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES
WITH CHAPTER 16 OF THE 2020 7TH EDITION FLORIDA
BUILDING CODE
THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

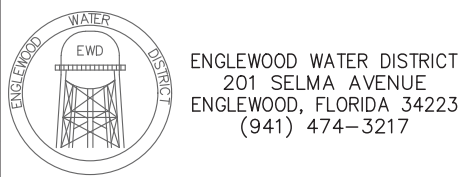
PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY	DATE	REVISION	BY

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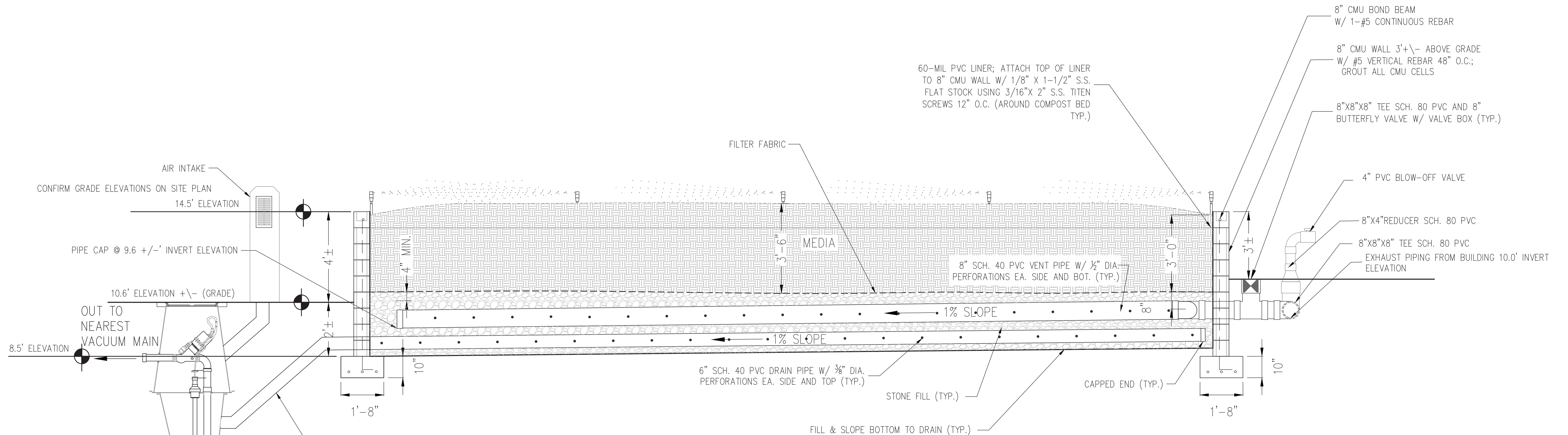
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DRAWN: KEF	DJC	10/22
DESIGN: DJC	DJC	10/22
APPROVED:		



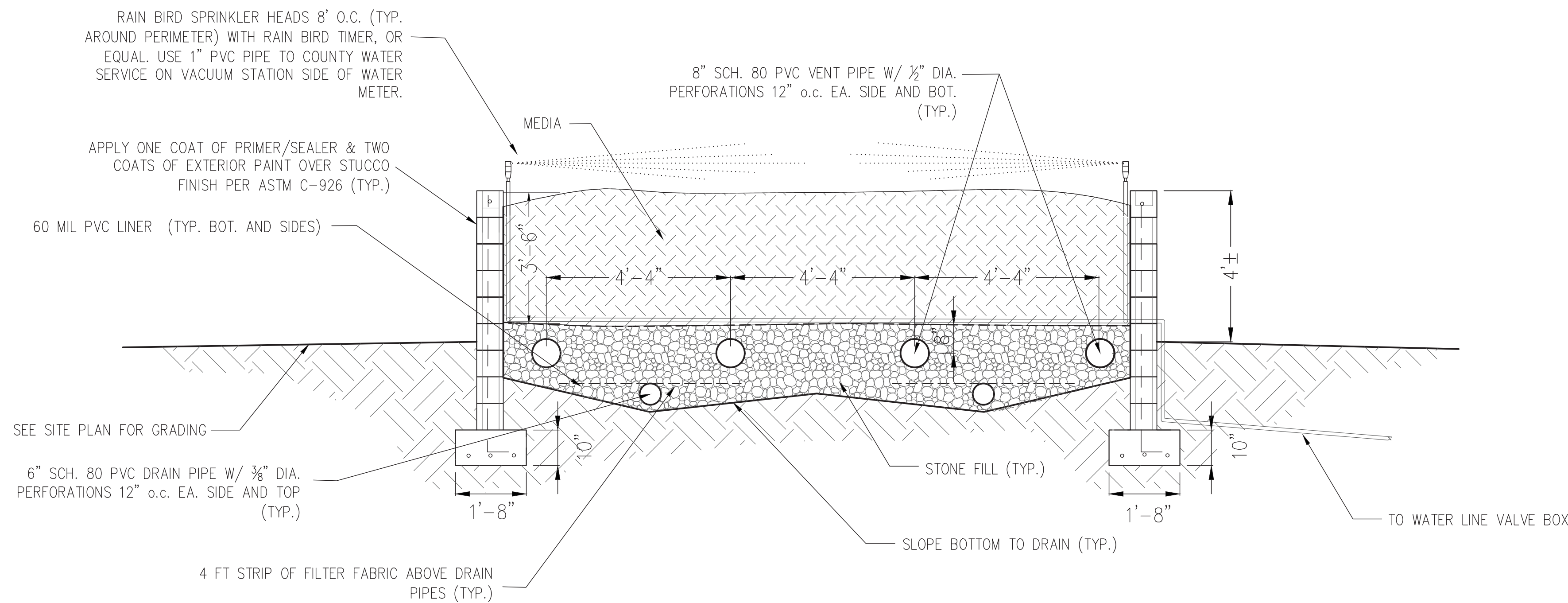
EWD V-1
ALTERATION & REHABILITATION
MULCH BED PLAN

SCALE: 3/8"=1'-0"
SHEET 7
GWE NO. 6524.00

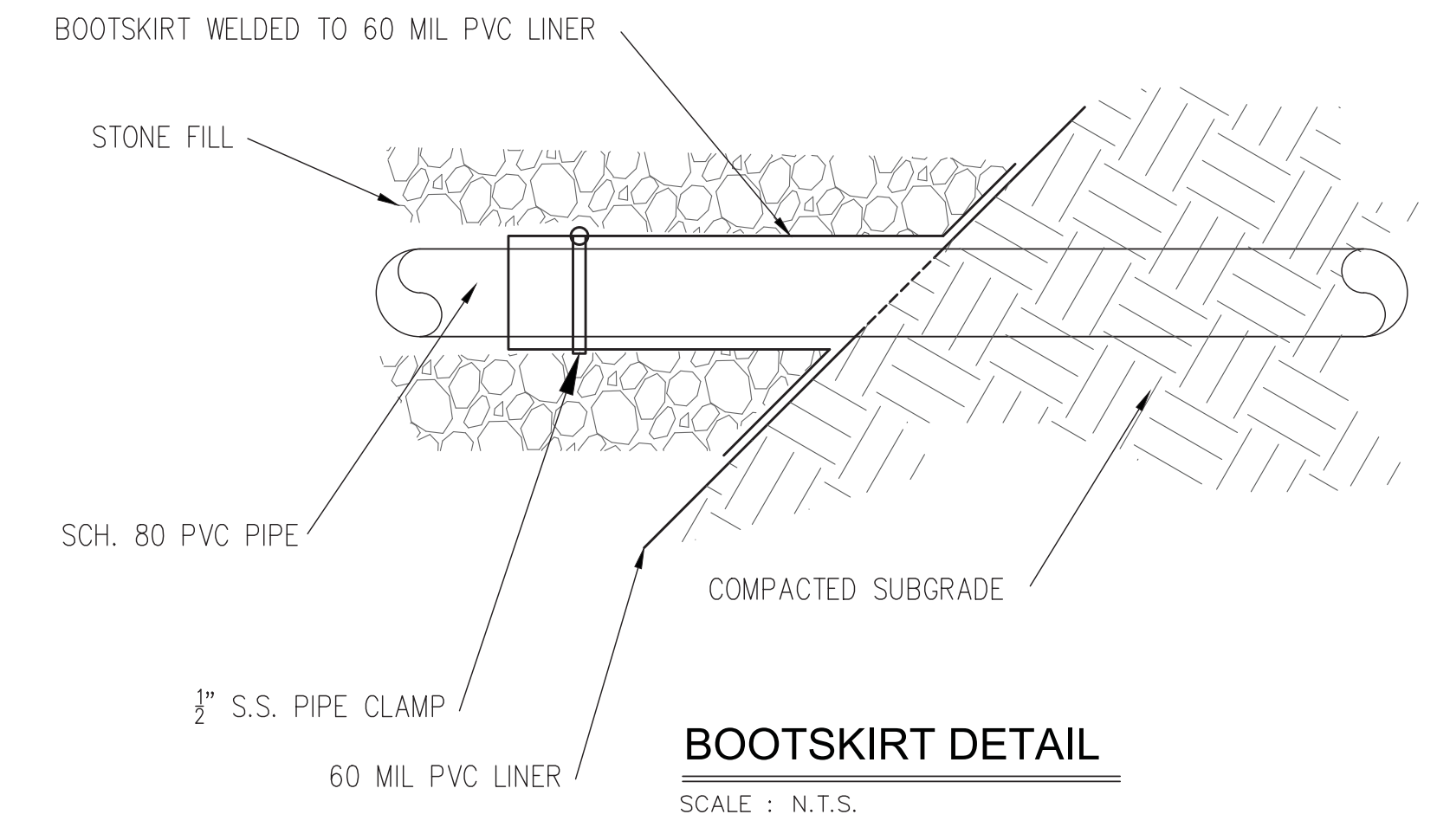
MA6500/s6524 EWD V-1 Station Rehab6524 V-1 MULCH BED.dwg, 3/20/2023 1:27:50 PM



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



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



BOOTSKIRT DETAIL
SCALE : N.T.S.

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2020 7TH EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY	DATE	REVISION	BY

GWE
Certificate of Authorization No. 3607

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Englewood, Florida 34223
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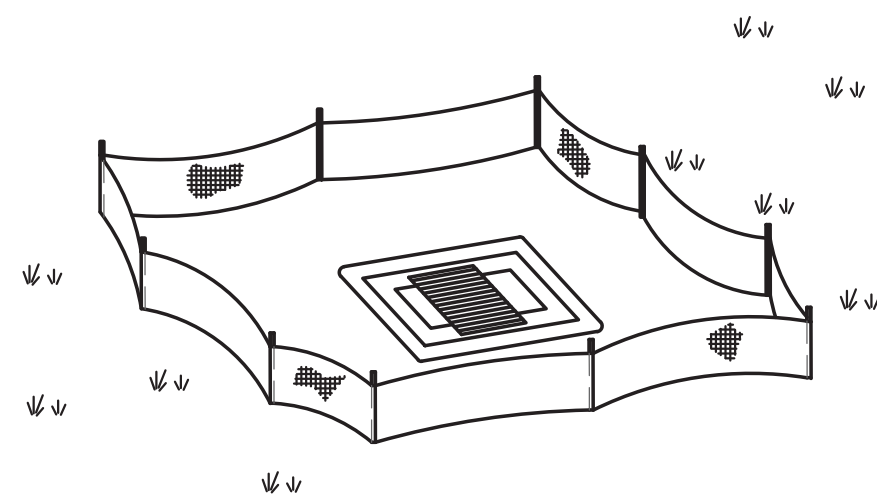
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DRAWN: KEF	DJC	10/22
DESIGN: DJC	DJC	10/22
APPROVED:		



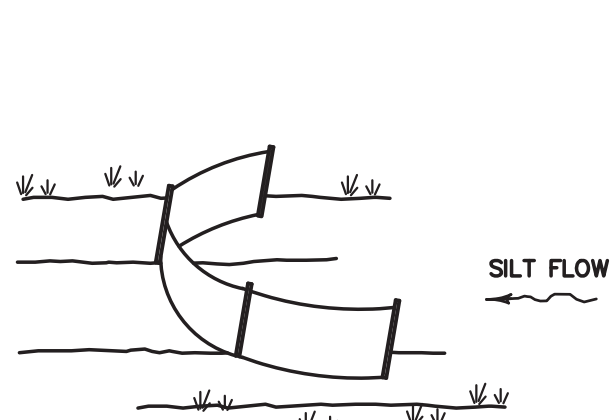
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EWD V-1
ALTERATION & REHABILITATION
MULCH BED SECTIONS

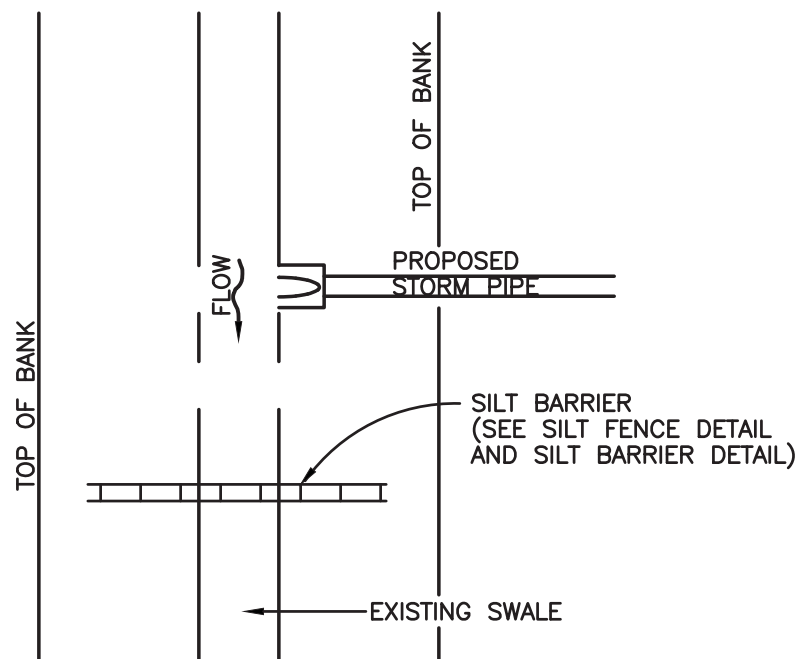
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GWE NO. 6524.00



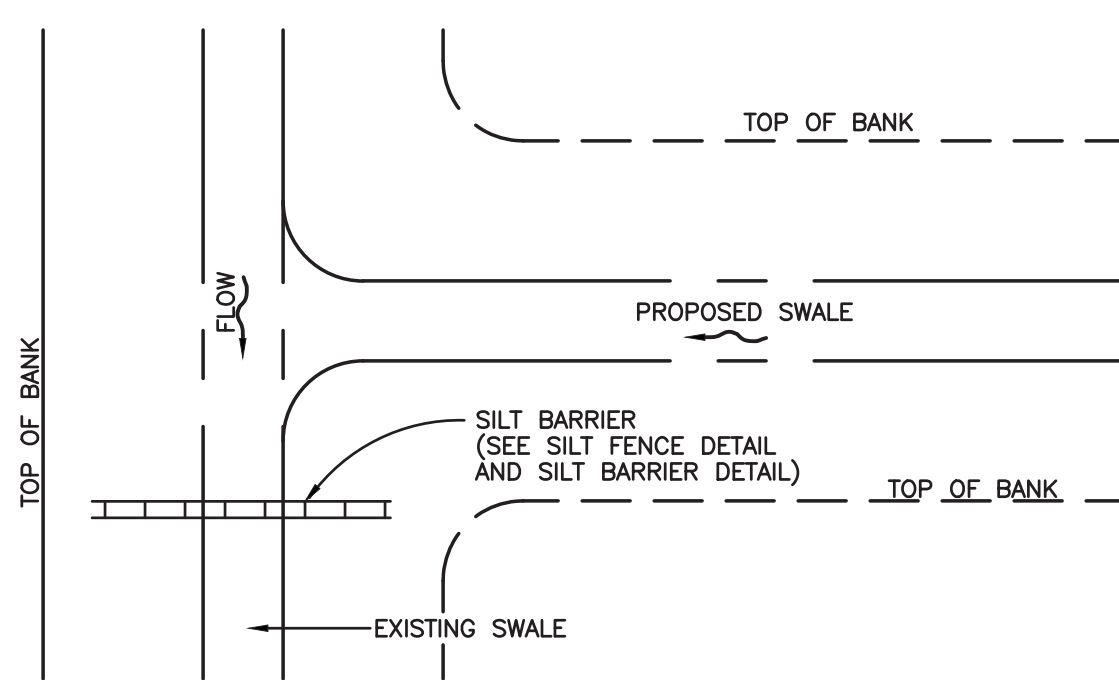
TYPE III SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS



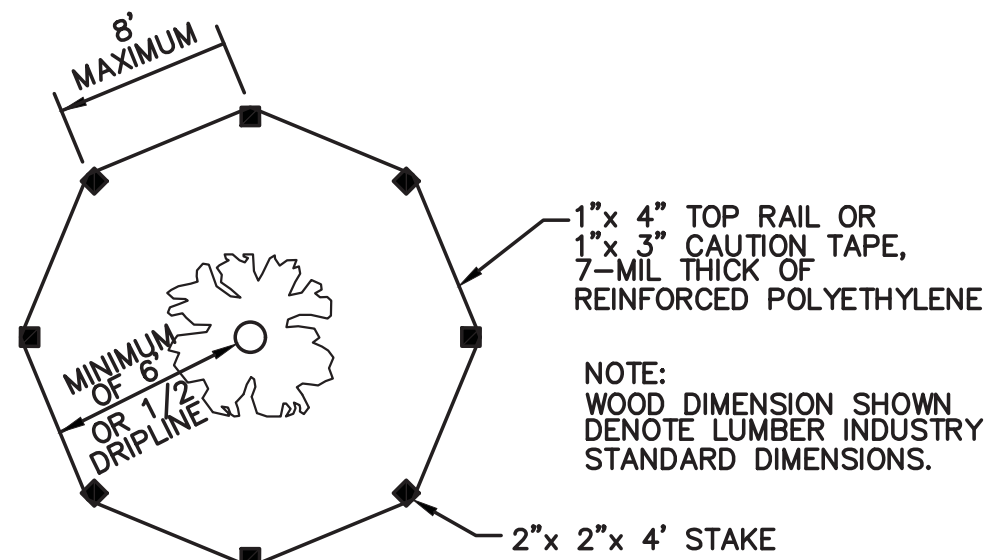
TYPE III SILT FENCE



SILT BARRIER @ CONNECTION
OF STORM PIPE TO EXISTING SWALE



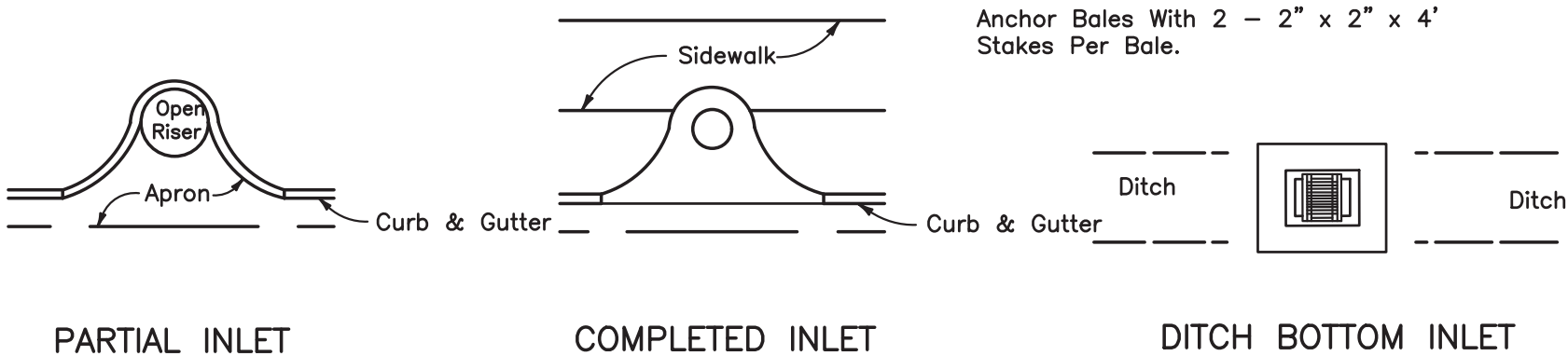
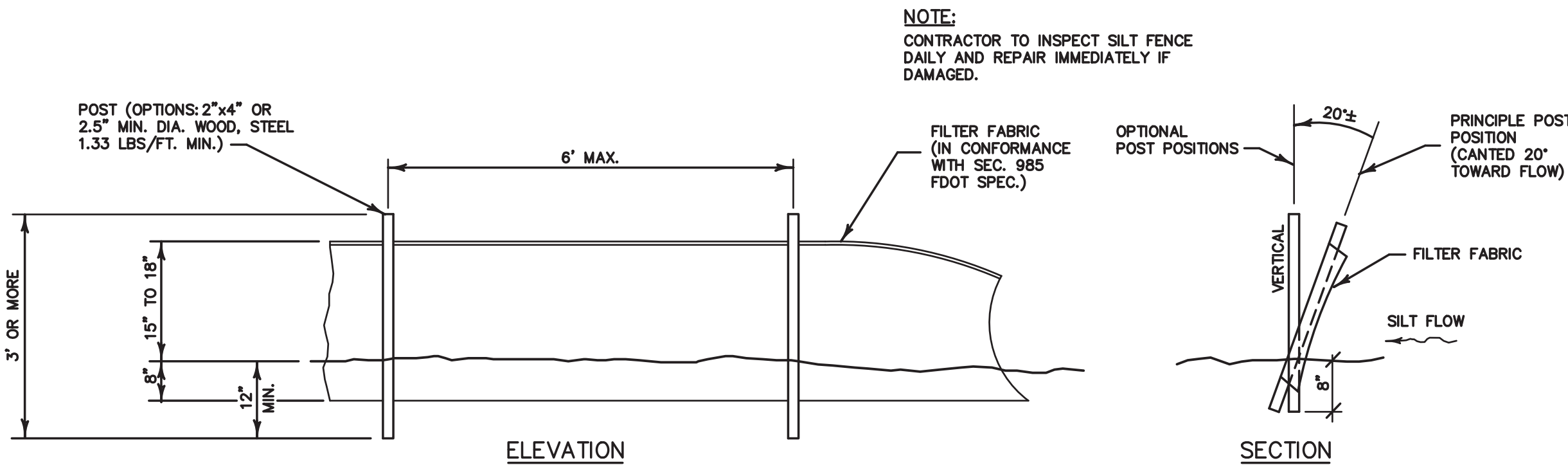
SILT BARRIER @ CONNECTION
OF SWALE TO EXISTING SWALE



TREE PROTECTION DETAIL
NOT TO SCALE

SILT FENCE APPLICATIONS

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



PROTECTION AROUND INLETS AND SIMILAR STRUCTURES

DEWATERING NOTES:

CONTRACTOR TO ENSURE THAT DEWATERING ACTIVITIES DO NOT CAUSE EROSION AND THAT SUMP IS UTILIZED TO ALLOW FOR PARTICLE SEDIMENTATION.

SEDIMENT SUMPS AND DISCHARGE EROSION CONTROL ARE TO BE IMPLEMENTED BEFORE ANY DEWATERING ACTIVITIES OR EARTHWORK CONSTRUCTION.

SUMP SIZE BASED UPON AN ASSUMED DEWATERING DISCHARGE OF 900 GPM (2 CFS). CONTRACTOR IS TO NOTIFY ENGINEER IF GREATER DISCHARGE IS PROPOSED SO SUMP SIZE CAN BE RECALCULATED.

DEWATERING WITHDRAWALS ARE TO BE FROM THE TOP OF THE WATER AREAS TO ALLOW FOR THE ADEQUATE SETTLING OF PARTICLES AND INSURE WATER QUALITY.

CONTRACTOR TO NOTIFY S.W.F.W.M.D. OF ANY MODIFICATION PROPOSED BY THE CONTRACTOR TO THE DEWATERING PLAN. CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF ANY REQUIRED PLANS AND PROCESSING OF THE SAME.

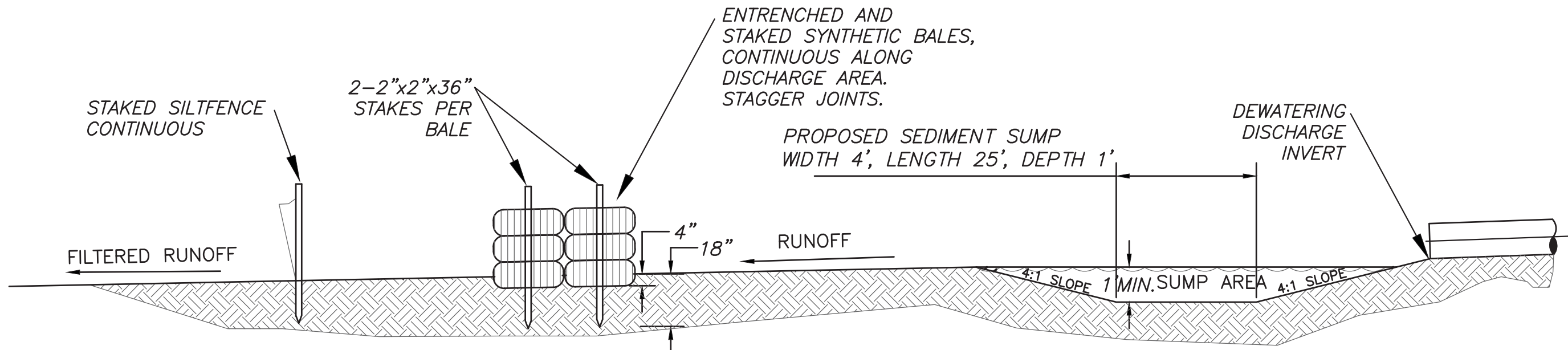
DISCHARGE FROM SUMPS SHOULD MAXIMIZE OVERLAND FLOW PRIOR TO ENTERING OUTFALL. STAKED SYNTHETIC BALES WILL BE USED TO MINIMIZE SILTATION RUNOFF. CONTRACTOR IS RESPONSIBLE FOR UTILIZING ADEQUATE SYNTHETIC BALES AT DISCHARGE LOCATIONS TO PREVENT SCOURING.

DEWATERING PERIOD MUST BE LESS THAN 120 DAYS.

LOCATION OF DEWATERING SUMPS AND DISCHARGE POINTS AS SHOWN ON PLAN.

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE
NOT TO SCALE



DEWATERING BASIN
NOT TO SCALE

BEST MANAGEMENT PRACTICES (BMP)

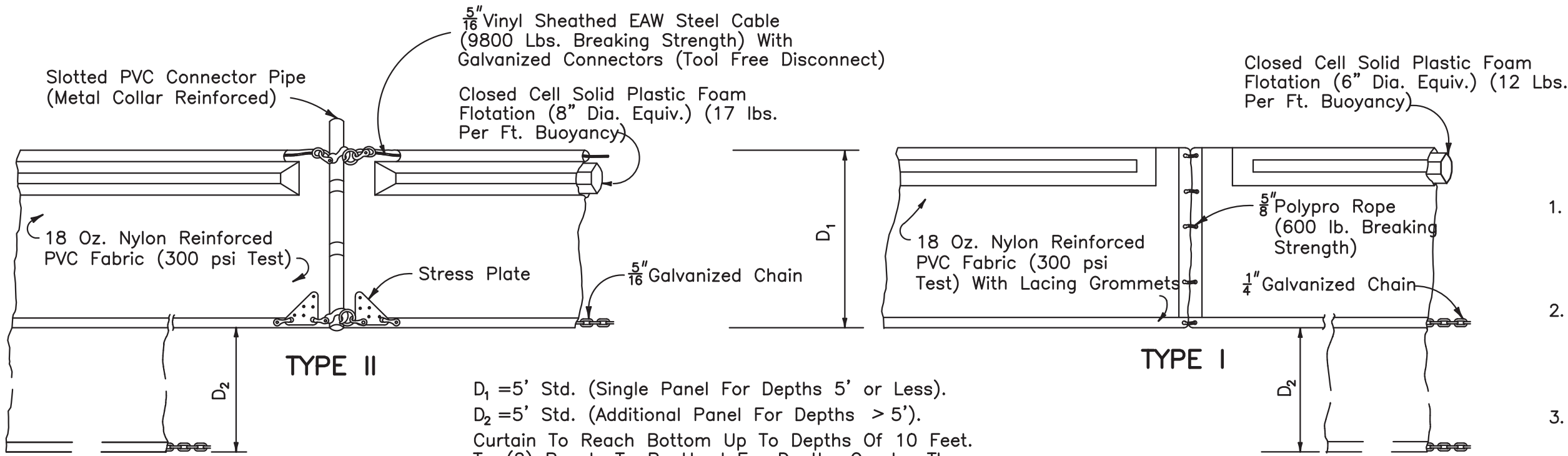
- CONTRACTOR SHALL PROVIDE ENGINEER OF RECORD WITH ONE SET OF DRAINAGE AS-BUILT DRAWINGS WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION. THE DRAINAGE-RELATED AS-BUILTS SHALL SHOW LOCATION, TYPE AND SIZE OF ALL STORM WATER OUTFALL STRUCTURES DISCHARGING TO CHARLOTTE COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) OR OTHER STATE SURFACE WATER DRAINAGES AND/OR WATERBODIES.
- THE CONTRACTOR OR ENGINEER SHALL REPORT ALL OFFSITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NTUs (NEPHELOMETRIC TURBIDITY UNITS) ABOVE BACKGROUND LEVEL TO THE COUNTY ENGINEER (941) 575-3600 WITHIN 24 HOURS AFTER OCCURRENCE. NOTIFICATION SHALL INCLUDE THE CAUSE OF THE PROBLEM, CORRECTIVE ACTIONS, TAKEN, AND THE INSTALLATION OF ADDITIONAL EROSION/SEDIMENT CONTROLS NOT SHOWN ON APPROVED CONSTRUCTION PLAN DRAWINGS.
- FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORM WATER DRAINAGE OR WATER BODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS AND GENERATED FROM CONSTRUCTION OPERATION SHALL BE CONTAINED, CLEANED UP AND REPORTED IMMEDIATELY TO THE COUNTY ENGINEER (941) 575-3600. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
- ALL SURFACE WATER DISCHARGES FROM THE PROPERTY SHALL COMPLY WITH STATE WATER QUALITY STANDARDS CONTAINED IN DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES, CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE (F.A.C.)
- THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSIONS OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296-.320(4)(c)1., FLORIDA ADMINISTRATIVE CODE, FROM THE CONSTRUCTION SITE BY TAKING ADEQUATE MEASURES TO STABILIZE AFFECTED AREAS.
- EROSION/SEDIMENT CONTROL SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTY OR ROADWAYS. CONTROL SHALL BE DESIGNED, INSTALLED, AND MAINTAINED AS REQUIRED BY THE ENGINEER AND/OR CONTRACTOR TO ENSURE SURFACE WATER QUALITY CONDITIONS ARE IN COMPLIANCE WITH THE WATER QUALITY STANDARDS ESTABLISHED IN CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE, AND WITH APPLICABLE CHARLOTTE COUNTY CODES.

SCHEDULE OF IMPLEMENTATION:

- INSTALL ALL TEMPORARY BMP MEASURES PRIOR TO START OF CONSTRUCTION.
- INSTALL ALL PERMANENT BMP MEASURES AFTER FINAL GRADING.
- REMOVE TEMPORARY BMP FEATURES AS APPLICABLE.

NOTE:

PROVIDE PROTECTION AROUND ALL INLETS OR SIMILAR STRUCTURES PER DETAILS.



NOTICE: COMPONENTS OF TYPES ~ AND ~ MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~ SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
NOT TO SCALE

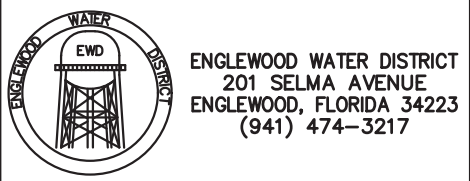
MA:6500/s6524 EWD V-1 Station Rehab6524 BMP-DTL.dwg, 3/20/2023 1:28:33 PM

DATE	REVISION	BY	DATE	REVISION	BY

GWE **GIFFELS-WEBSTER**
ENGINEERS, INC.
Certificate of Authorization No. 3607

900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

DATE: 10/22	CKD. BY	DATE
DRAWN: KEF	DJC	10/22
DESIGN: DJC	DJC	10/22
APPROVED:		



EWD
V-1 IMPROVEMENTS
BMP DETAILS

SCALE: N.T.S.
SHEET 9
GWE NO. 6524.00

ENGINEER OF RECORD
DENNIS J. CROYLE, P.E.
STATE OF FLORIDA NO. 62287

GENERAL:
CONSTRUCTION:

1. All construction shall meet requirements of all Local and State Building Codes.
2. Engineer of Record shall be notified of any deviation to this plan during construction.
3. Contractor shall retain the services of a certified material testing laboratory to conduct all required concrete & soils compaction testing. Results of all tests shall be submitted to the Engineer of Record for review.
4. Pre-manufactured straps, hangers, and clips shall be installed according to manufacturer's recommendations as required to supply desired performance.
5. Due to the nature of this construction the Engineer of Record shall be given the opportunity to re-evaluate these plans and specifications as additional information becomes available or unforeseen circumstances arise.
6. This structure has been designed to be self supporting and stable after the building is complete. It is the responsibility of the contractor to determine suitable sequencing, means and methods of construction, including, but not limited to the addition of necessary shoring, tie downs, temporary bracing, etc.

DESIGN CRITERIA:

- Florida Building Code, 2020 7th Edition
ASCE 7-16
1. Wind Velocity = 170 M.P.H.
Internal Pressure Coefficient = ±0.18 (Enclosed Building)
Category III Building (Table 1-1; ASCE 7-16)
Exposure C
 - Component & Cladding ASD Loads based on a loaded area of 10 sf or less and a wind directionality factor of 0.85 are as follows:
Zone 1: -46.8/+24.8
Zone 2: -105.2/+24.8
Zone 3: -145.4/+24.8
Zone 4: -46.8/+43.1
Zone 5: -57.7/+43.1
If a specific component has a tributary area larger than 10 sf and requires a reduced component & cladding load, this specifications & dimensions of the product shall be submitted to the Engineer of Record for wind analysis.
 2. Live Loads — in accordance with FBC 2020, Table 1607.1 unless noted.
Floors, Decks, & Stairs: 125 psf
Roofs: 20 psf

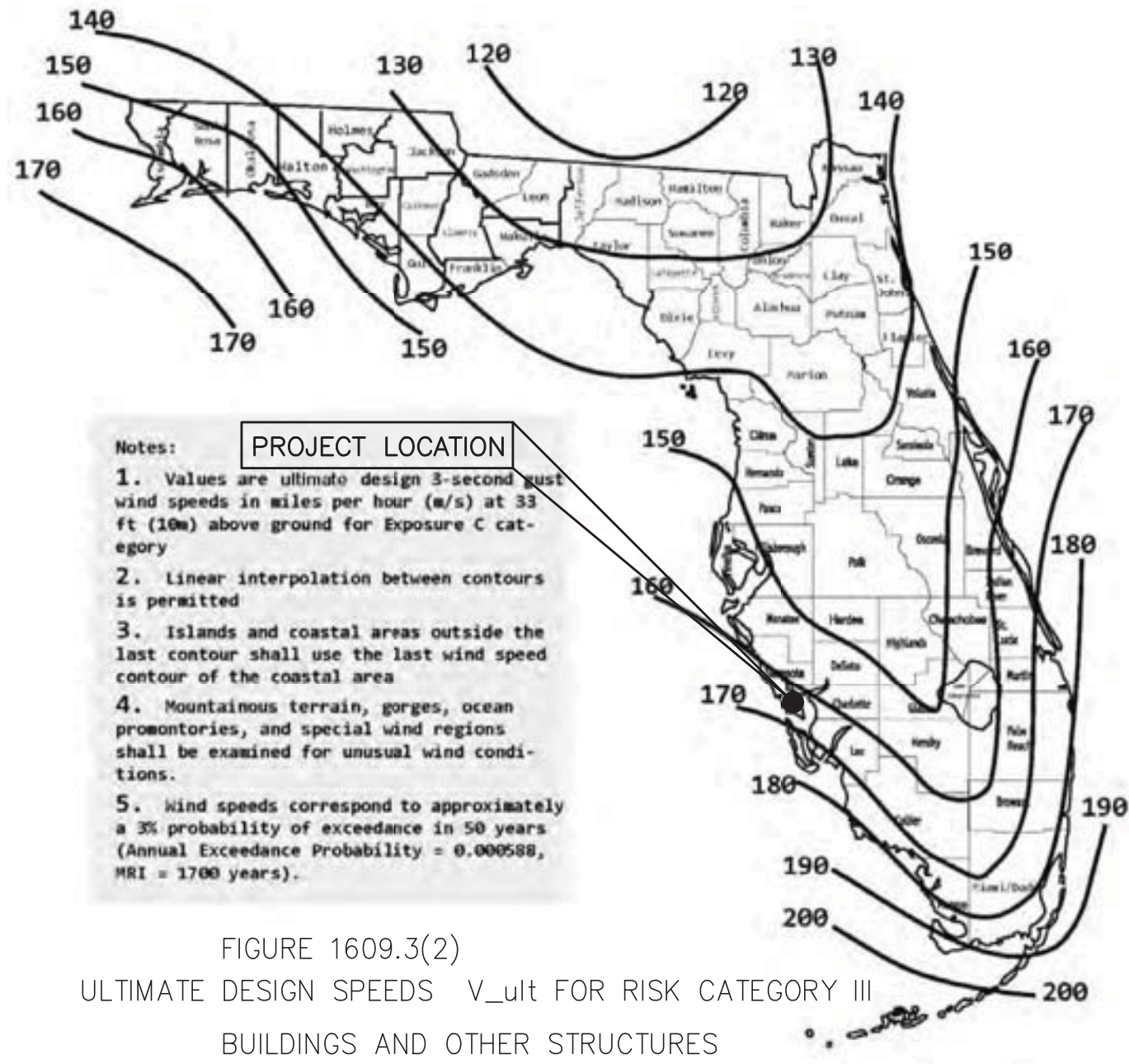


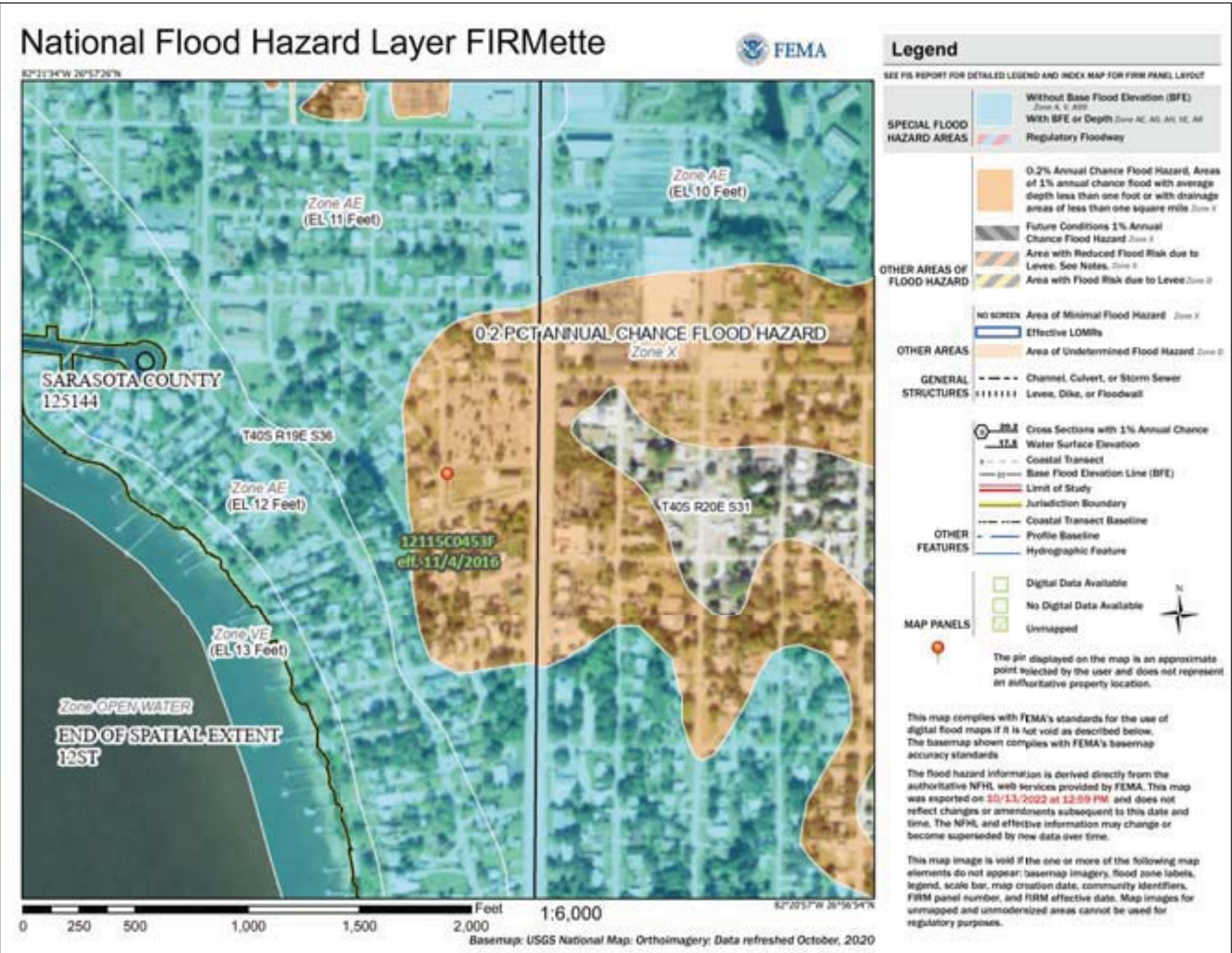
FIGURE 1609.3(2)
ULTIMATE DESIGN SPEEDS V_{ult} FOR RISK CATEGORY III
BUILDINGS AND OTHER STRUCTURES

OCCUPANCY; CODE COMPLIANCE CRITERIA

GROUP U, UTILITY
CONSTRUCTION TYPE: III, B
UNSPRINKLERED FBC 903.2.11
FIRE ALARM DETECTION SYSTEM NO REQUIREMENTS FBC 907
OCCUPANT LOAD 1,700 SF/300 MECH. EQUIP. AREA (TABLE1004.1.2) 6 PERSONS
EXIT ACCESS TRAVEL DISTANCE <300'

FEMA NOTES:

SPECIAL FLOOD HAZARD AREA (ZONE "X").
Structure is located in a special flood hazard area. An elevation certificate must be submitted to the construction services department before requesting the framing inspection.



MATERIALS:

- CONCRETE:
Provide mix designed by a recognized testing laboratory to achieve a strength at 28 days as listed below with a plastic and workable mix:
- 5000 psi for all below-grade concrete pit walls and pit slabs
3000 psi or stronger is acceptable for all other structural components (slabs, monolithic footings, tie-beams, etc.)
- Materials used to produce concrete and admixtures for concrete shall comply with ACI 318. Concrete shall comply with all requirements of ASTM C 150, ASTM C 595, or ASTM C 845. Concrete shall comply with all the requirements of ASTM Standard C94-74A for measuring, mixing, transporting, etc. Concrete tickets shall be time stamped when concrete is batched, the maximum time allowed from the time the water is added until it is deposited in its final position shall not exceed one and one half (1½) hours. If for any reason there is a longer delay than that stated above, the concrete shall be discarded. It shall be the responsibility of the testing lab to notify the owner's representative and the contractor of any non-compliance with the above. Concrete testing to be paid for by the contractor. Admixtures may be used only with the approval of the engineer. During hot weather, proper attention shall be given to the ingredients, production methods, handling, placing, protection and curing to prevent excessive concrete temperatures or water evaporation that may impair required strength or serviceability of the member or structure as per 1906.5 and 1906.7 of the Florida Building Code.

REINFORCING STEEL:
Reinforcing shall be ASTM A615 Grade 60, free from oil, scale and rust, and placed in accordance with the typical bending diagram and placing details and ACI 318 Standards and Specifications. Reinforcement shall be deformed reinforcement, except that plain reinforcement shall be permitted for spirals or tendons.

MASONRY:
All Masonry work shall be done in accordance with "Building Code Requirements for Masonry Structures (ACI 530)" & "Specifications for Masonry Structures (ACI 530.1)"

1. Concrete masonry units shall be Grade "N" Hollow Load bearing Units, conforming to ASTM C-90 with a minimum compressive strength (f'm) of 1500 psi.
2. Mortar: Type M or S and shall conform to ASTM C-270.
3. Grout or pea-gravel concrete with an ultimate compressive strength of 3000 psi at 28 days, except for those locations as marked or noted on the structural drawings. Corefill mix shall conform to ASTM C-476.
4. Air-Entraining mixtures or hydrated lime containing air-entraining mixtures are prohibited because such admixtures will reduce the shear, tensile and compressive strength of the masonry. Calcium chloride is not permitted in mortar or grout in which reinforcement, metal ties, or anchors are embedded because of excessive corrosion.

MATERIALS:

- WOOD:
1. Unless noted otherwise, all wood construction shall meet or exceed requirements of Chapter 23, FBC 2020 Table 2304.10.1 shall be used as a minimum for all nailing schedules. Roof, wall, & floor diaphragms shall be as follows unless noted otherwise:
 2. Dimensional lumber shall be rated in accordance with the standards of the current edition of the American Wood Council's National Design Specifications.
 3. Cupola wall studs shall be #2 Spruce Pine Fir (SPF); sill & top plates shall be #2 SYP (U.N.O.).
 4. Multi-member wood beams shall be glued and nailed together with a minimum of 16d nails @ 12" o.c., top and bottom edge, staggered (U.N.O.). Splices shall be made at span third points or center of supports. No more than one member shall be spliced at any one point. Splices shall be spaced a minimum of 4 feet apart.
 5. Manufactured wood products, such as Microlams shall be installed according to manufacturer's recommendations and erection drawings. Installation shall include bridging, bracing, blocking, and web stiffeners as required.
 6. All wood exposed to weather or in direct contact with concrete shall be either Pressure Treated or a naturally durable species.
 7. Unless otherwise noted, built-up stud columns shall be limited to 3 plies and nailed together w/ 2 rows of 16d nails @ 3" o.c. starting at 3½" from each end. Adjacent nails shall be driven from opposite sides of the column.

GLUE:
Glue used in the field for assembling wood products shall be waterproof exterior grade equal to or better than Liquid Nails.

EXTERIOR DOORS:
All exterior doors are required to be tested in accordance with ANSI/AMMA/NWDA 101/52 standard and bear an AMMA or WDMA label identifying the manufacturer, performance characteristics, and approved product testing entity.

PREFABRICATED WOOD TRUSSES:
Truss components shall be designed by others to withstand the wind loads for Components & Cladding as determined by ASCE 7-10, Chapter 6. Complete designs of each truss (profiles) and the truss layout plan shall be submitted to the Engineer of Record for review. Shop drawings shall bear the signature & seal of the Florida Registered Professional Engineer responsible for the design of the trusses.

Truss reactions & uplift on the host structure shall be determined based on appropriate live & dead loads and the Main Wind Force Resistance System criteria of ASCE 7-10. Net uplift forces shall be determined using the actual available dead load. ASCE 7-10 method of wind analysis shall be noted on the truss designs and the layout.

ASPHALT SHINGLES:
Shingles classified as ASTM D3161 Class F, ASTM D7158 Class H or TAS 107 are acceptable for use for all wind speeds. Asphalt shingle wrappers shall be labeled to indicate compliance with one of the required classifications, as shown in table 1507.2.7.1.

METAL:
1. All steel plates, bolts, washers, nuts, fasteners, hangers, straps and clips shall be "Z-MAX" (Salt air exposure) galvanized or stainless steel — (Simpson Products or equal).

2. Steel plates and rolled steel members shall conform to ASTM A36 unless noted otherwise. Bolts, nuts and washers shall conform to ASTM A307 unless noted otherwise.
3. Lag bolts, nails, screws, hangers, straps, and clips shall be fabricated from appropriate materials and H.D.G. (Hot-dipped Galvanized) to meet conditions shown.

FERROUS METAL PAINT & PRIMER:

Rust-Oleum TRMCLD 2x3.78lt red oxide primer is not intended for use with non-ferrous metals, such as copper, brass or aluminum. It is required for protecting steel framing metals from rust and corrosion. Before applying red oxide primer, the surface of the material must be clean, dry and free of debris and grease. All surfaces to be sandblasted, wired brushed, scraped, ground smooth.

Red oxide primer shall be applied using a brush, roller or spray. Two coats shall be applied before the metal is painted with Rust-Oleum enamel top coats. Each red oxide primer coat needs 6 hours to fully dry before 2nd coat is applied. Apply two coats of Rust-Oleum professional high performance enamel # 7781402 Light Machine Gray topcoat per manufacturers technical data sheet revised 03/29/17

SUBMITTALS:

1. Contractor shall submit cut sheets and erection drawings for all manufactured structural components (including concrete piles) to Engineer of Record for review.
2. Contractor shall verify all dimensions and conditions in the field as work progresses. All discrepancies and deviations from the plans shall be reported to the Engineer of Record.
3. All structural changes shall be signed & sealed by the Engineer of Record & re-submitted to the Building Department prior to installation.

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES
WITH CHAPTER 16 OF THE 2020 7th EDITION FLORIDA
BUILDING CODE.
THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY	DATE

GWE **GIFFELS-WEBSTER**
ENGINEERS, INC.
CERTIFICATE OF AUTHORIZATION #3607

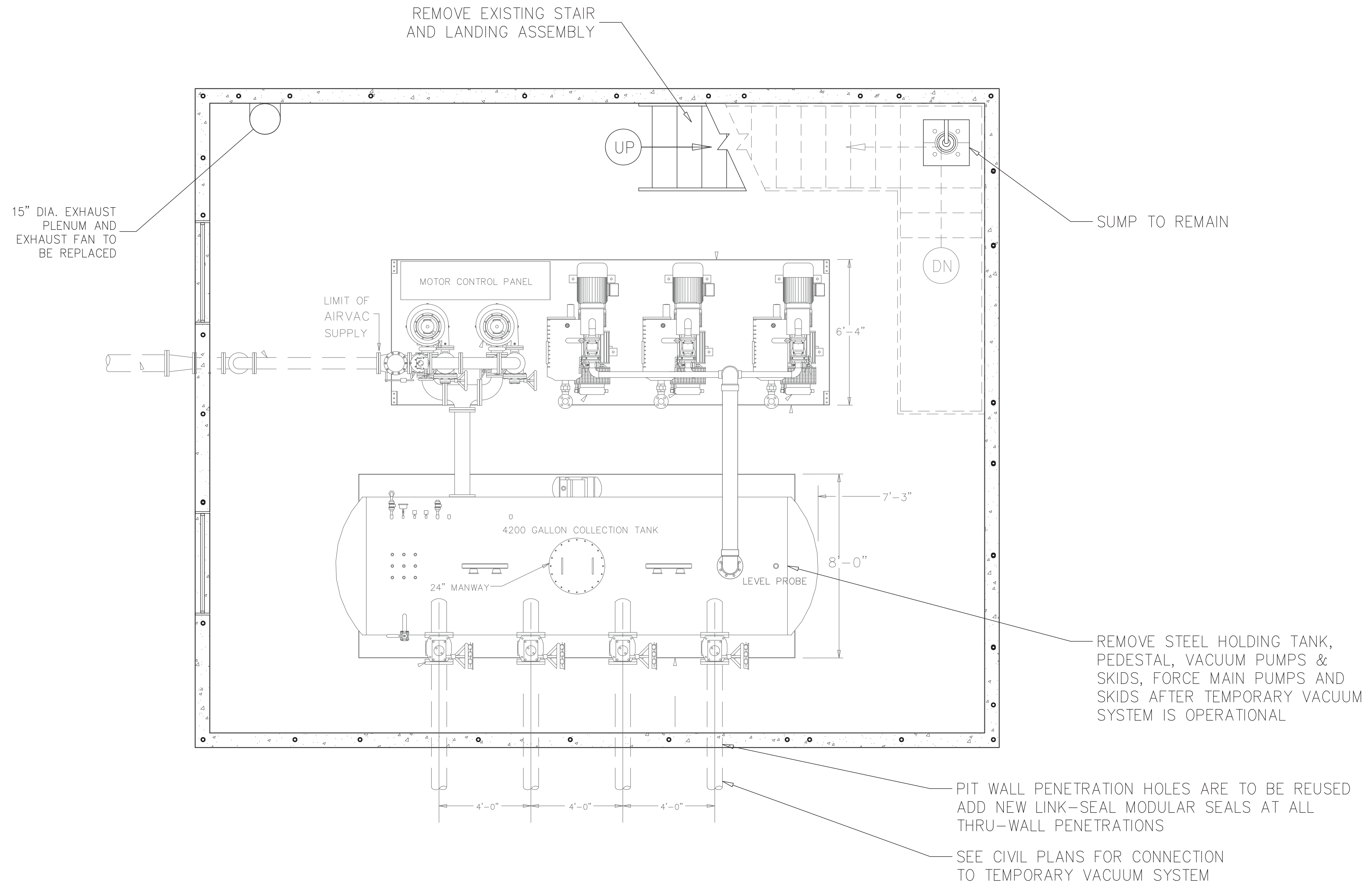
900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

DATE:	03/24/23
DRAWN:	TS
CHK'D BY:	DC

ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

NOTE: ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ASSURE THE ACCURACY OF THESE DRAWINGS, IT REMAINS THE RESPONSIBILITY OF THE OWNER AND / OR BUILDER TO VERIFY ALL CONDITIONS, SPECIFICATIONS AND DIMENSIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, PROCUREMENT OF MATERIALS OR SITE DEVELOPMENT FOR THIS STRUCTURE.

PERMIT SET
SHEET: S1 OF S20
GWE NO. 6524.10



TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES
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PROFESSIONAL ENGINEER OF RECORD
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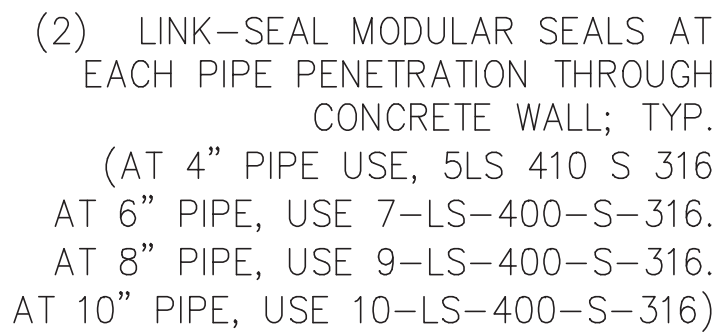
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CHK'D BY: DC

**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

EXISTING PIT FLOOR PLAN
SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S2 OF S20
GWE NO. 6524.10



AIR-VAC SUPPLIED 316SS EXHAUST MANIFOLD AND VACUUM LINE TO BE ATTACHED TO UNDERSIDE OF 2ND FLOOR BEAMS. CONTRACTOR TO PROVIDE AND INSTALL: THREADED 2"Ø 316SS PIPE BETWEEN BUNG AND PUMP EXHAUST FITTING CONNECTION; ALL EXHAUST PIPES TO BE JACKETED WITH MINERAL-WOOL HEAT INSULATION. EXHAUST PIPES LOCATION PER AIR-VAC SKID PLAN. VERIFY FINAL DIMENSIONS OF PUMP SKID.

MATERIALS LIST			
#	DESCRIPTION	QTY	MFG/SUPPLIER
1.	VERTICAL COUPLED SEWAGE PUMP – MODEL 4514T-VC18DB W/ 6" X 5" BASE ELBOW	2	CORNELL
2.	6"-6" DIA. 4500 GALLON FIBERGLASS COLLECTION TANK (SEE SEPARATE DRAWING)	1	DURA-TECH
3.	VACUUM PUMP- BUSCH MINK MM 1502 AV; 353 CFM	5	BUSCH, INC.
4.	VACUUM PUMP INLET MOISTURE SEPARATOR WITH 3" NPT	5	SOLBERG
5.	MECHANICAL FLOAT BALL WITH CORD GRIP – HIGH LEVEL LOCKOUT	1	CONERY
6.	ELECTRICAL CONTROL PANEL (SEE SEPARATE DRAWING)	1	AIRVAC
7.	(3) 4 1/2" VACUUM GAUGE ASSEMBLIES ON WALL PANEL (INSTALLATION BY OTHERS)	4	ASHCROFT
8.	FORCE MAIN PRESSURE TRANSMITTER WITH 1" BALL VALVE	1	ROSEMOUNT
9.	0-30" HG. VACUUM GAUGE (TANK MOUNTED)	1	ASHCROFT
10.	STRUCTURAL STEEL SKID DECK (SEE SEPARATE DRAWINGS)	2	AIRVAC
11.	PIPE SUPPORTS AS REQUIRED (NOT ALL SHOWN FOR CLARITY)	-	AIRVAC
12.	1" FLEXIBLE EQUALIZING LINE ASSEMBLY	2	AIRVAC
13.	4-20MA RADAR LEVEL TRANSMITTER	1	VEGA
14.	1" CLEAR PVC SITE TUBE ASSEMBLY	1	AIRVAC
15.	1" PVC TRUE UNION BALL VALVE	13	SPEARS
16.	2" FULL POLYPROPYLENE 6 BOLT PORT PLUG VALVE	1	BANJO
17.	3" 304 STAINLESS STEEL VACUUM PUMP INLET PIPING	5	AIRVAC
18.	3" BUTTERFLY VALVE, LEVER OPERATED	5	BRAY
19.	3" FLANGED RESILIENT COATED SWING CHECK VALVE	5	PRATT
20.	8" X 6" ECCENTRIC REDUCER	2	AIRVAC
21.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
22.	6" RUBBER VIBRATION ISOLATORS	2	MERCER
23.	8" X 6" CEMENT LINED D.I. PUMP SUCTION PIPING	2	AIRVAC
24.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	2	PRATT
25.	6" FLANGED FULL PORT PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
26.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
27.	8" ELECTRICALLY OPERATED SPRING RETURN BUTTERFLY VALVE	1	DRESSER
28.	8" X 6" X 3" SCH 80 PVC VACUUM HEADER ASSEMBLY	1	AIRVAC
29.	10" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
30.	6" FLOWED FLOWMETER	1	SIEMENS
31.	2" AIRVAC VACUUM & CHECK VALVES (STATION SUMP)	1	AIRVAC
32.	1/4" CHROME PLATED BRASS BALL VALVE (INLET & OUTLET ON SOLBERG FILTERS)	10	PRECISION
33.	ELECTRICAL JUNCTION BOX (see electrical drawings)	3	AIRVAC
34.	1/2" S.S. BALL VALVE FOR GAUGE COCKS	10	NIBCO
35.	6" CEMENT LINED D.I. FORCE MAIN ASSEMBLY	1	AIRVAC
36.	6" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
37.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ 2" NUT & LEVER	1	PRATT
38.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	1	PRATT
39.	2" 304 STAINLESS STEEL VACUUM PUMP EXHAUST PIPING	5	AIRVAC
40.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
41.	ANTI-CAVITATION ASSEMBLY	1	AIRVAC
42.	2" 316 STAINLESS STEEL WAFER STYLE CHECK VALVE	5	US VALVE
43.	CONDENSATION HEADER	1	AIRVAC
44.	CONDENSATION RETURN LINE	1	AIRVAC
45.	4-20MA PRESSURE TRANSMITTER	1	ROSEMOUNT
46.	6" S.S. VACUUM PUMP EXHAUST HEADER	1	AIRVAC

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES
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PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY

GWE
CERTIFICATE OF AUTHORIZATION #3607

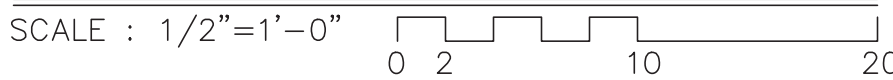
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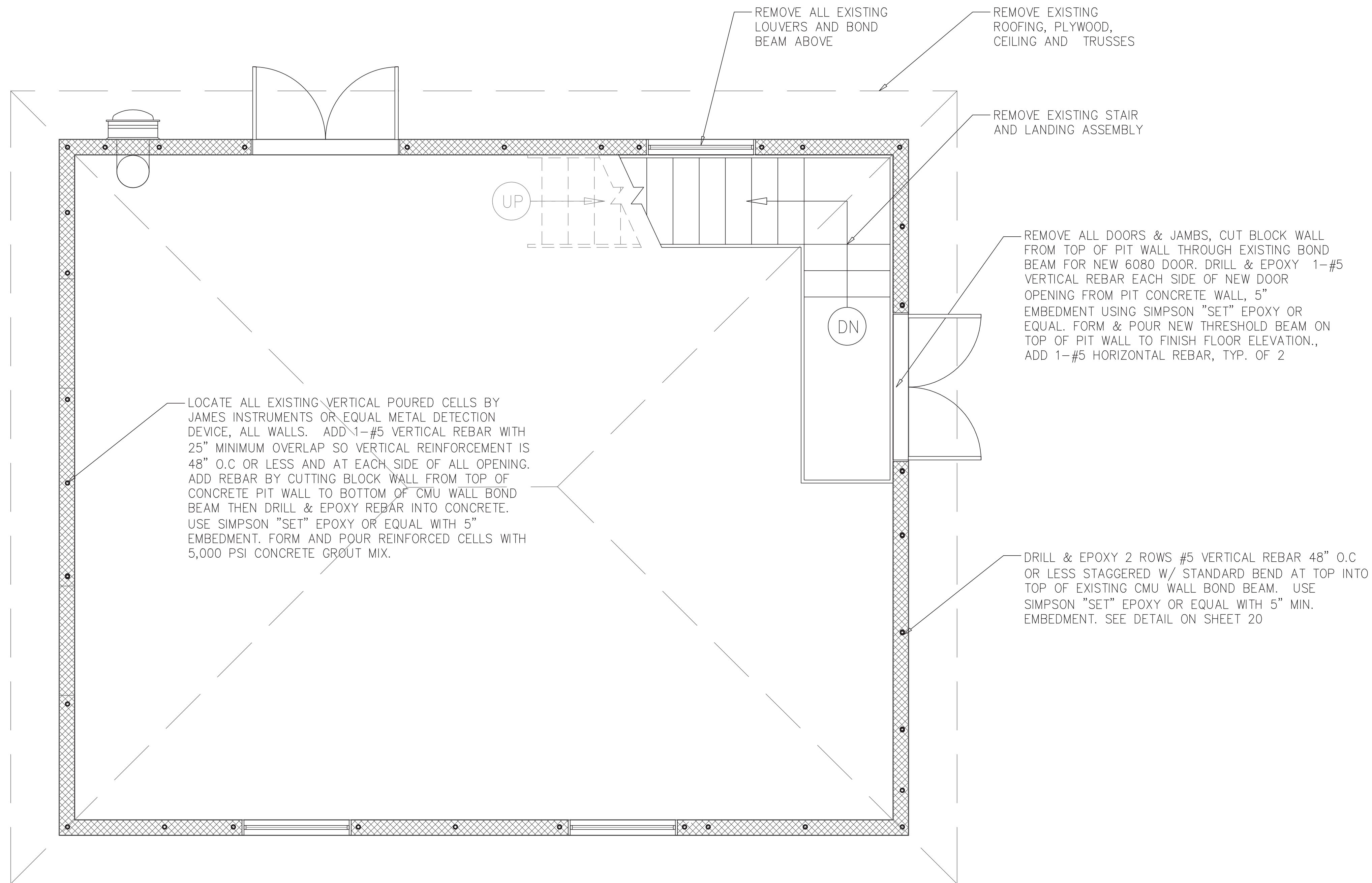
ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

PROPOSED PIT FLOOR PLAN



PERMIT SET

SHEET: S3 OF S20
GWE NO. 6524.10



TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2020 7th EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY

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Englewood, Florida 34223
Phone (941)475-7981
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CHK'D BY:	DC

ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

EXISTING 2ND FLOOR PLAN
SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S4 OF S20
GWE NO. 6524.10

DOOR & LOUVER SCHEDULE			
MARK	MANUFACTURE	DESCRIPTION	FL. PRODUCT APPROVAL NO.
A	<i>Megion-Schlage Lock Company</i> REPUBLIC DOOR	6080 INSUL. STL DOOR W/ AIRLOUVER 1500AHR 24"x64" HURRICANE RATED LOUVER W/ 12 GAUGE SECURITY GRILL	FL# 12400.4
B	GREENHECK	4'-0" X 4'-0" LOUVER EVH-501D	FL# 19277.1
C	<i>Megion-Schlage Lock Company</i> REPUBLIC DOOR	3080 STL DOOR 1-1/2 HOUR RATING	FL# 12400.4
D	GREENHECK	18"H X 36"W CUPOLA LOUVERS EVH-501D	FL# 19277.1

NOTE: PROVIDE 6" HIGH BUILDING ADDRESS NUMBERS ON STREET FACING WALL

NOTE: PROVIDE 2 EA.- 10 LB FIRE EXTINGUISHERS TYPE UL 4A20BC

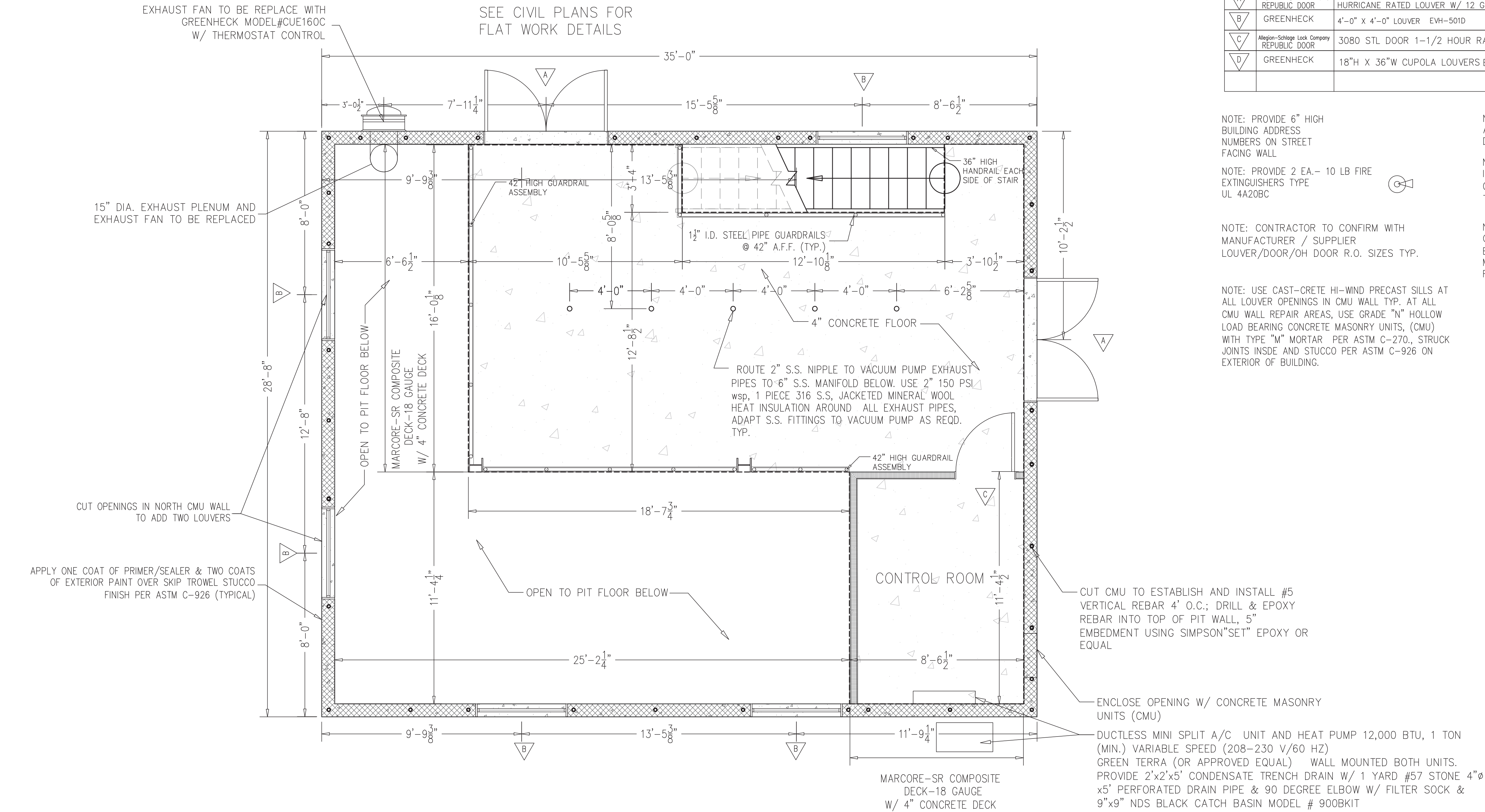
NOTE: CONTRACTOR TO CONFIRM WITH MANUFACTURER / SUPPLIER LOUVER/DOOR/OH DOOR R.O. SIZES TYP.

NOTE: USE CAST-CRETE HI-WIND PRECAST SILLS AT ALL LOUVER OPENINGS IN CMU WALL TYP. AT ALL CMU WALL REPAIR AREAS, USE GRADE "N" HOLLOW LOAD BEARING CONCRETE MASONRY UNITS, (CMU) WITH TYPE "M" MORTAR PER ASTM C-270., STRUCK JOINTS INSIDE AND STUCCO PER ASTM C-926 ON EXTERIOR OF BUILDING.

NOTE: CONTRACTOR SHALL VERIFY AND ALL DIMENSIONS WITH AIR-VAC SHOP DRAWINGS

NOTE: R-30 BATT INSULATION TO BE INSTALLED IN CEILING, AT BOTTOM CHORD OF TRUSSES (TYP. THROUGHOUT)

NOTE: ALIGN TOPS OF DOOR AND LOUVER OPENINGS. CUT AND REMOVED EXISTING BOND BEAM TO ACCOMMODATE 8' HIGH DOORS. SEE MANUFACTURERS INSTALLATION SPECIFICATION FOR ROUGH OPENING SIZES FOR EACH.



TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2020 7th EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY

GWE
CERTIFICATE OF AUTHORIZATION #3607

**GIFFELS-WEBSTER
ENGINEERS, INC.**

900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

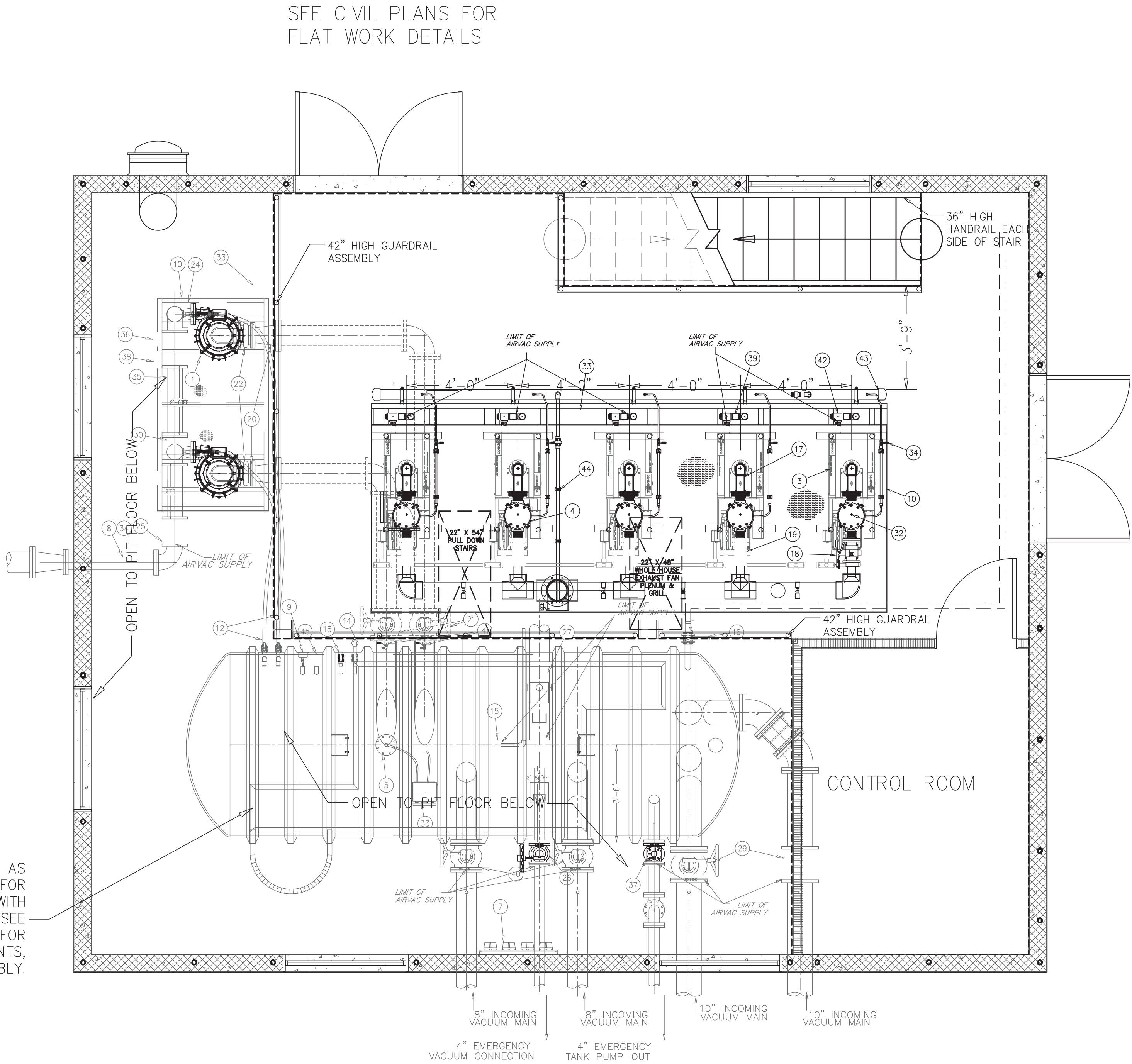
DATE:	03/24/23
DRAWN:	TS
CHK'D BY:	DC

**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

PROPOSED 2ND FLOOR PLAN

SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S5 OF S20
GWE NO. 6524.10



AIR-VAC VACUUM COLLECTION SYSTEM AS PROPOSED IN THESE PLANS ARE FOR ILLUSTRATION PURPOSE ONLY WITH PROPOSED BUILDING ALTERATION. SEE AIR-VAC SHOP DRAWINGS FOR VERIFICATION OF DETAILS OF COMPONENTS, ELEVATIONS, AND ASSEMBLY.

MATERIALS LIST			
#	DESCRIPTION	QTY	MFG/SUPPLIER
1.	VERTICAL COUPLED SEWAGE PUMP – MODEL 4514T–VC18DB W/ 6" X 5" BASE ELBOW	2	CORNELL
2.	6'–6" DIA. 4500 GALLON FIBERGLASS COLLECTION TANK (SEE SEPARATE DRAWING)	1	DURA-TECH
3.	VACUUM PUMP– BUSCH MINK MM 1502 AV; 353 CFM	5	BUSCH, INC.
4.	VACUUM PUMP INLET MOISTURE SEPARATOR WITH 3" NPT	5	SOLBERG
5.	MECHANICAL FLOAT BALL WITH CORD GRIP – HIGH LEVEL LOCKOUT	1	CONERY
6.	ELECTRICAL CONTROL PANEL (SEE SEPARATE DRAWING)	1	AIRVAC
7.	(3) 4 1/2" VACUUM GAUGE ASSEMBLIES ON WALL PANEL (INSTALLATION BY OTHERS)	4	ASHCROFT
8.	FORCE MAIN PRESSURE TRANSMITTER WITH 1" BALL VALVE	1	ROSEMOUNT
9.	0–30" HG. VACUUM GAUGE (TANK MOUNTED)	1	ASHCROFT
10.	STRUCTURAL STEEL SKID DECK (SEE SEPARATE DRAWINGS)	2	AIRVAC
11.	PIPE SUPPORTS AS REQUIRED (NOT ALL SHOWN FOR CLARITY)	–	AIRVAC
12.	1" FLEXABLE EQUALIZING LINE ASSEMBLY	2	AIRVAC
13.	4–20MA RADAR LEVEL TRANSMITTER	1	VEGA
14.	1" CLEAR PVC SITE TUBE ASSEMBLY	1	AIRVAC
15.	1" PVC TRUE UNION BALL VALVE	13	SPEARS
16.	2" FULL POLYPROPYLENE 6 BOLT PORT PLUG VALVE	1	BANJO
17.	3" 304 STAINLESS STEEL VACUUM PUMP INLET PIPING	5	AIRVAC
18.	3" BUTTERFLY VALVE, LEVER OPERATED	5	BRAY
19.	3" FLANGED RESILIENT COATED SWING CHECK VALVE	5	PRATT
20.	8" X 6" ECCENTRIC REDUCER	2	AIRVAC
21.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
22.	6" RUBBER VIBRATION ISOLATORS	2	MERCER
23.	8" X 6" CEMENT LINED D.I. PUMP SUCTION PIPING	2	AIRVAC
24.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	2	PRATT
25.	6" FLANGED FULL PORT PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
26.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
27.	8" ELECTRICALLY OPERATED SPRING RETURN BUTTERFLY VALVE	1	DRESSER
28.	8" X 6" X 3" SCH 80 PVC VACUUM HEADER ASSEMBLY	1	AIRVAC
29.	10" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
30.	6" FLANGED FLOWMETER	1	SIEMENS
31.	2" AIRVAC VACUUM & CHECK VALVES (STATION SUMP)	1	AIRVAC
32.	1/4" CHROME PLATED BRASS BALL VALVE (INLET & OUTLET ON SOLBERG FILTERS)	10	PRECISION
33.	ELECTRICAL JUNCTION BOX (see electrical drawings)	3	AIRVAC
34.	1/2" S.S. BALL VALVE FOR GAUGE COCKS	10	NIBCO
35.	6" CEMENT LINED D.I. FORCE MAIN ASSEMBLY	1	AIRVAC
36.	6" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
37.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ 2" NUT & LEVER	1	PRATT
38.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	1	PRATT
39.	2" 304 STAINLESS STEEL VACUUM PUMP EXHAUST PIPING	5	AIRVAC
40.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
41.	ANTI-CAVITATION ASSEMBLY	1	AIRVAC
42.	2" 316 STAINLESS STEEL WAFER STYLE CHECK VALVE	5	US VALVE
43.	CONDENSATION HEADER	1	AIRVAC
44.	CONDENSATION RETURN LINE	1	AIRVAC
45.	4–20MA PRESSURE TRANSMITTER	1	ROSEMOUNT
46.	6" S.S. VACUUM PUMP EXHAUST HEADER	1	AIRVAC

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2020 7th EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY

GWE
CERTIFICATE OF AUTHORIZATION #3607

**GIFFELS-WEBSTER
ENGINEERS, INC.**

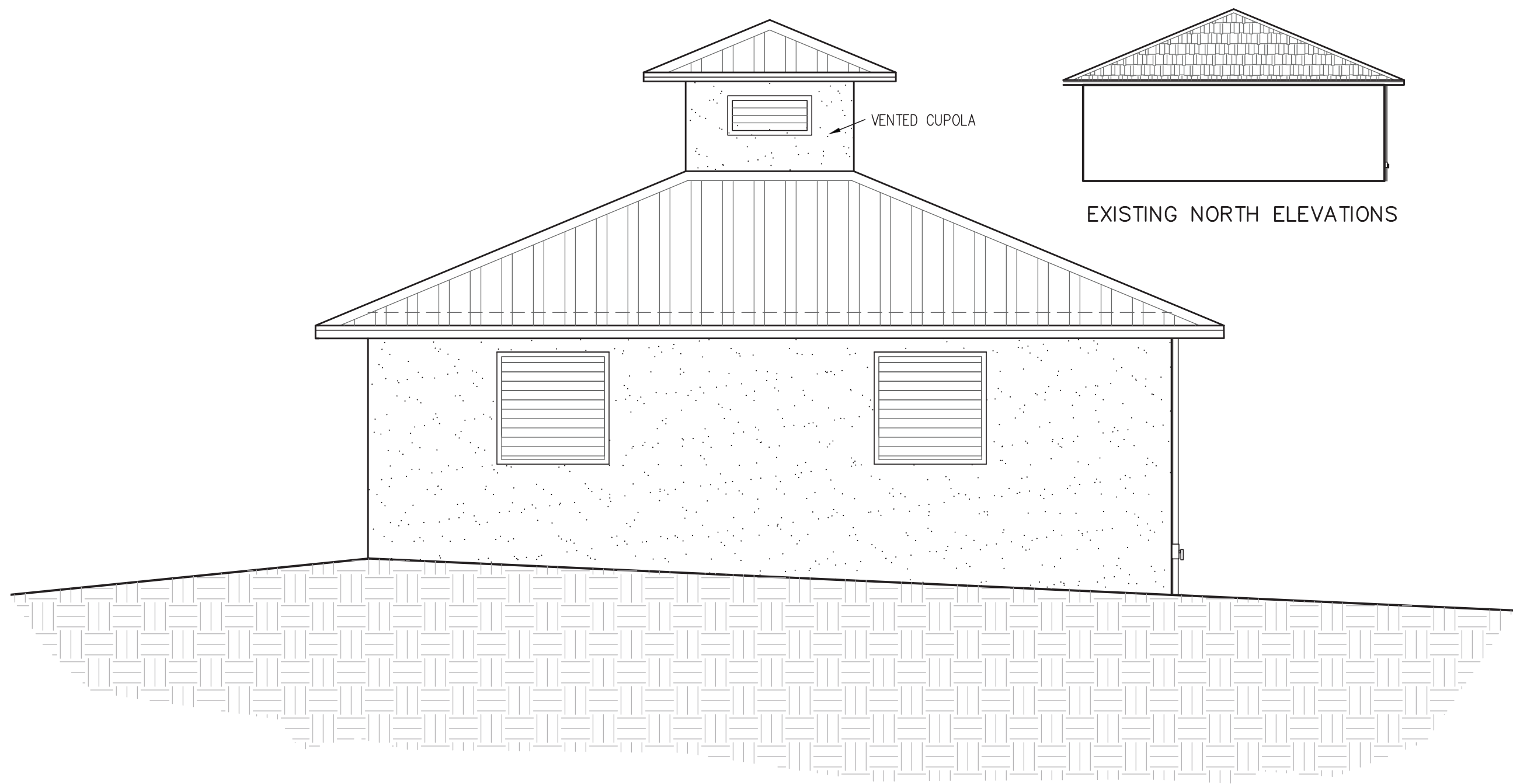
900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475–7981
Fax (941)474–4285

DATE: 03/24/23
DRAWN: TS
CHK'D BY: DC

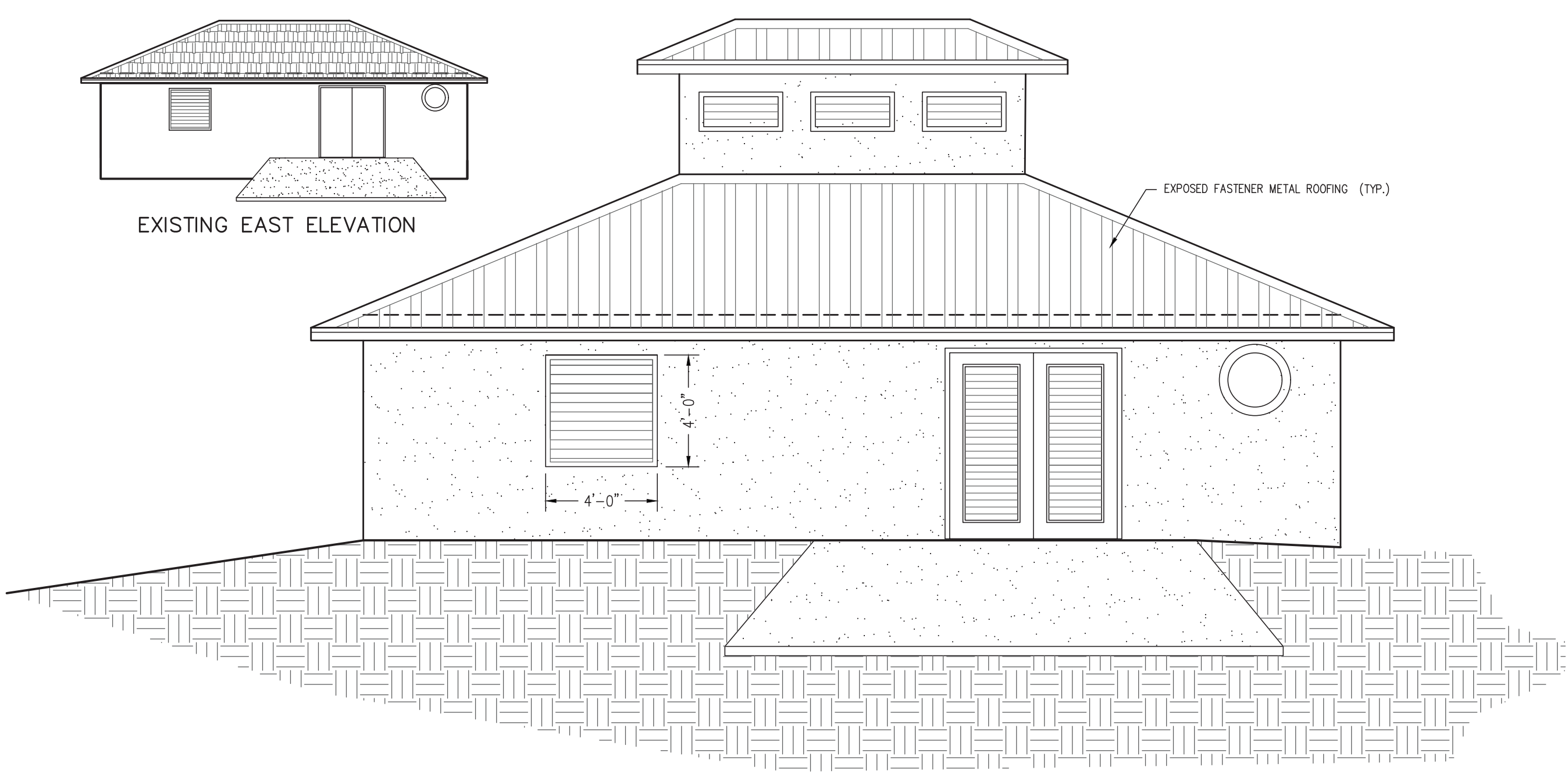
ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

AIRVAC 2ND FLOOR PLAN
SCALE : 1/2"=1'-0"
0 2 10 20

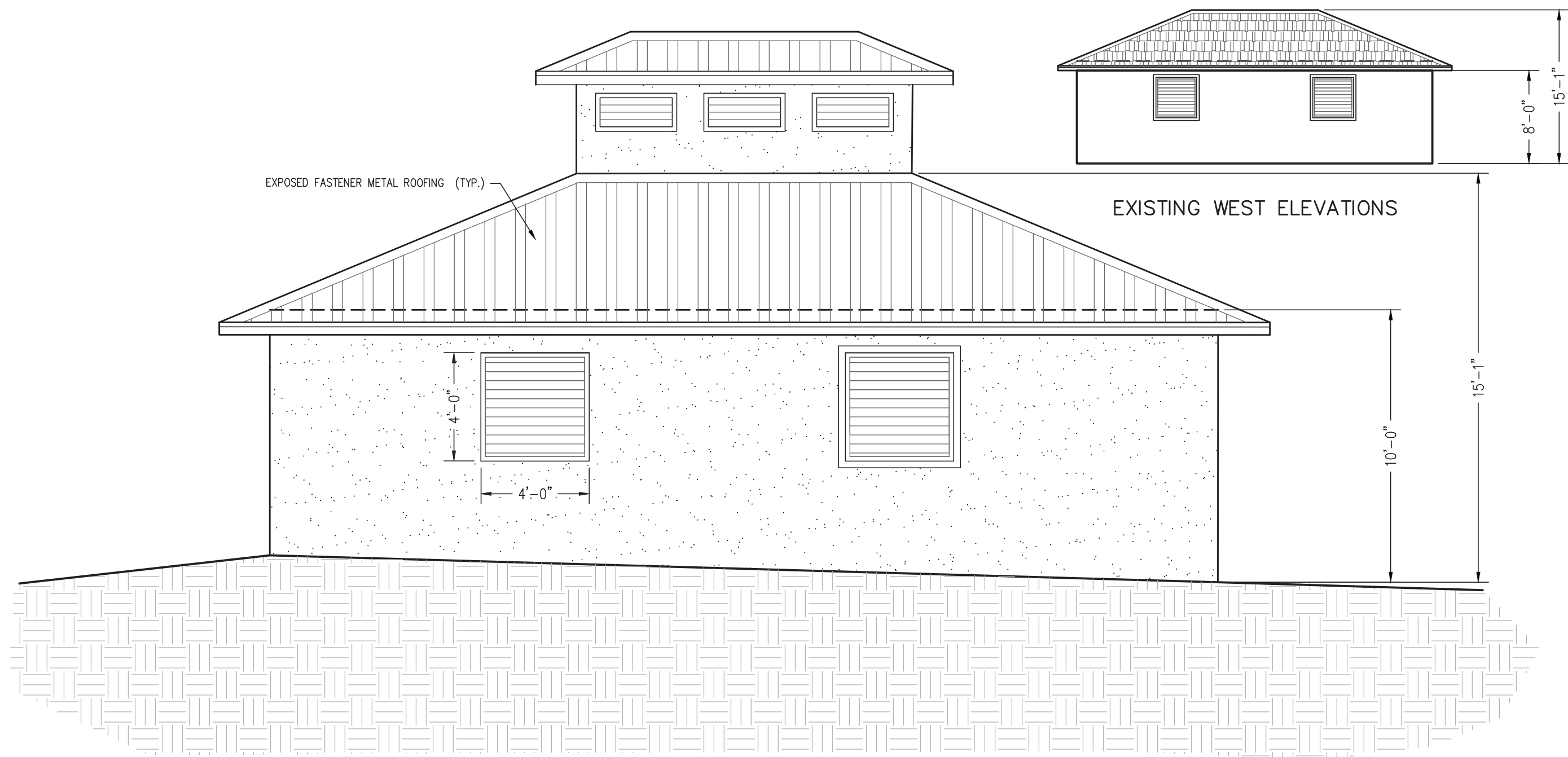
PERMIT SET
SHEET: S6 OF S20
GWE NO. 6524.10



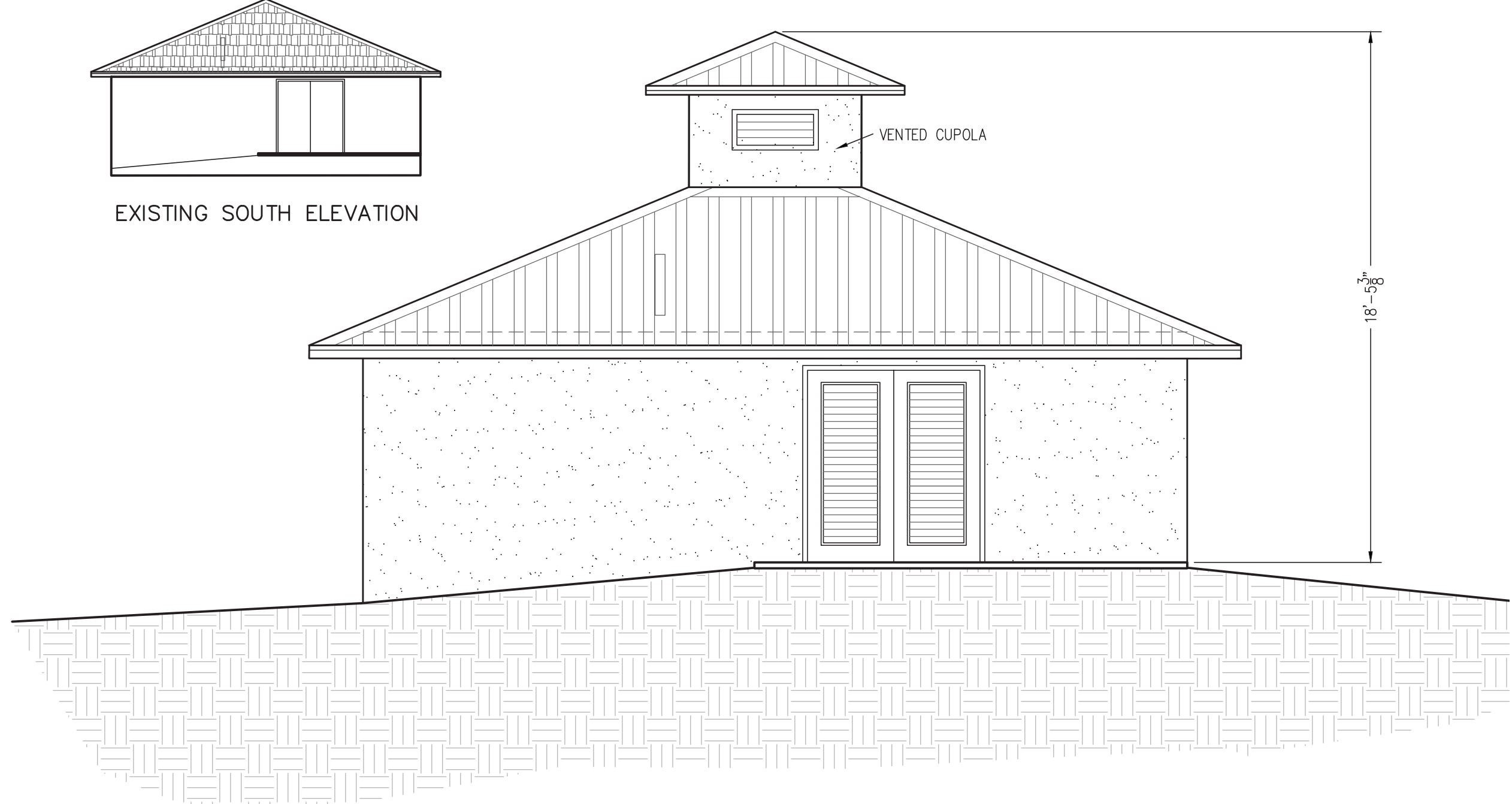
PROPOSED NORTH ELEVATION



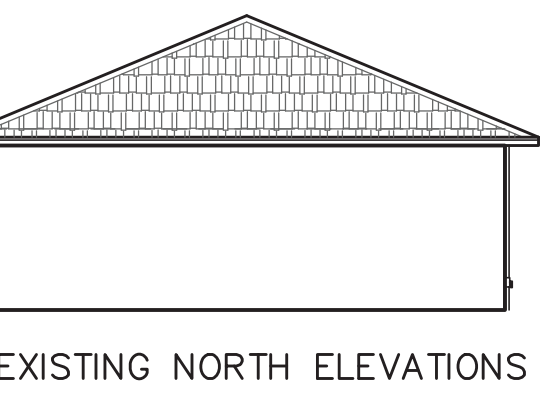
PROPOSED EAST ELEVATION



PROPOSED WEST ELEVATION



PROPOSED SOUTH ELEVATION



EXISTING NORTH ELEVATIONS



EXISTING EAST ELEVATION



EXISTING WEST ELEVATIONS



EXISTING SOUTH ELEVATION

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DATE:	03/24/23
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CHK'D BY:	DC

**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

ELEVATIONS

SCALE : 1/4"=1'-0"
0 1 5 10

PERMIT SET
SHEET: S7 OF S20
GWE NO. 6524.10

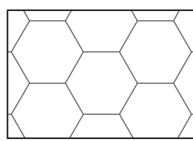
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ROOF NAILING ZONES

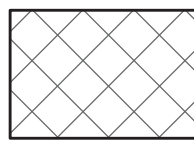
ROOF SHEATHING TO BE 19/32" 4-PLY CDX PLYWOOD



ZONE 1
10d (3"x 0.148" RINGSHANK)
316 STAINLESS STEEL NAILS
@ 4" o.c. AT ALL EDGES;
6" o.c. IN FIELD



ZONE 2
10d (3"x 0.148" RINGSHANK)
316 STAINLESS STEEL NAILS
@ 3" o.c. AT ALL EDGES;
6" o.c. IN FIELD



ZONE 3
10d (3"x 0.148" RINGSHANK)
316 STAINLESS STEEL NAILS
@ 3" o.c. THROUGHOUT

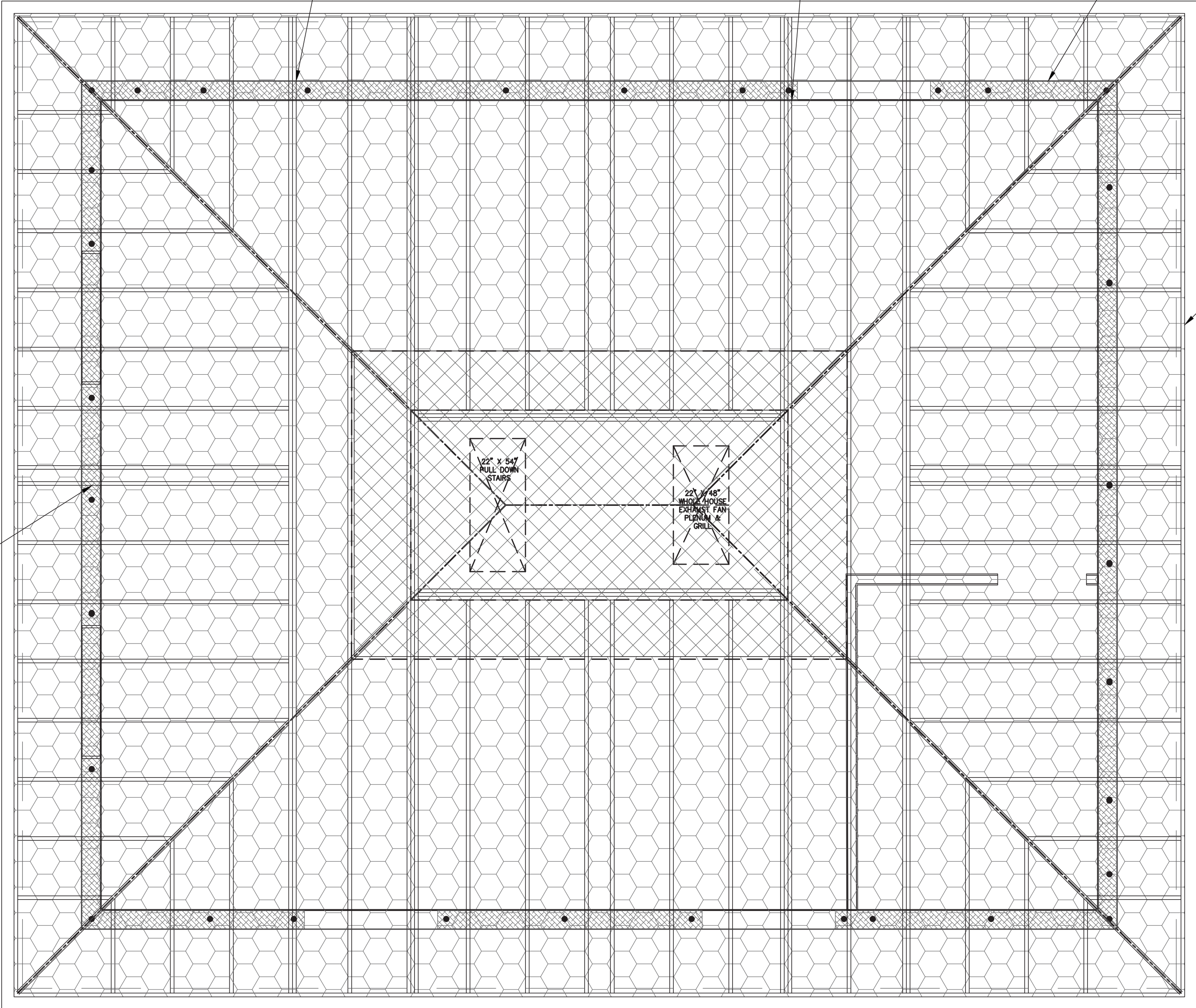
(2) SIMPSON HETA20 EMBEDMENT STRAPS W/
8-16D NAILS .148 SHANK HDG NAILS@ EACH
GIRDER TRUSS

IN ADDITION TO (2) SIMPSON HETA20
ADD: LGT3-SDS2.5 W/(12) 1/4"x2 1/2"SDS
IN GIRDER & (4)-3/8" X 5" TITEN
HD IN CONCRETE BOND BEAM TYP.

2X4 SYP PT CONTINUOUS NAILER W/ 1/4" TAPCON
2 ROWS 32" O.C STAGGARD W/ 2X4 SPF
BLOCKING 24" O.C. & 3-CONTINUOUS 1x4 SPF
NAILERS FOR VINYL VENTED SOFFITS TO BE
ATTACHED 12" O.C. EACH WAY. 5" GUTTER
& DOWNSPOUTS NOT SHOWN FOR CLARITY.

2X6 #2 SPF SUBFASCIA
5" GUTTER & (4) 3"x4"
DOWNSPOUTS

(1) SIMPSON HETA20 EMBEDMENT
STRAPS W/ 4-16d NAILS .148 SHANK
HDG NAILS @ EACH JACK TRUSS



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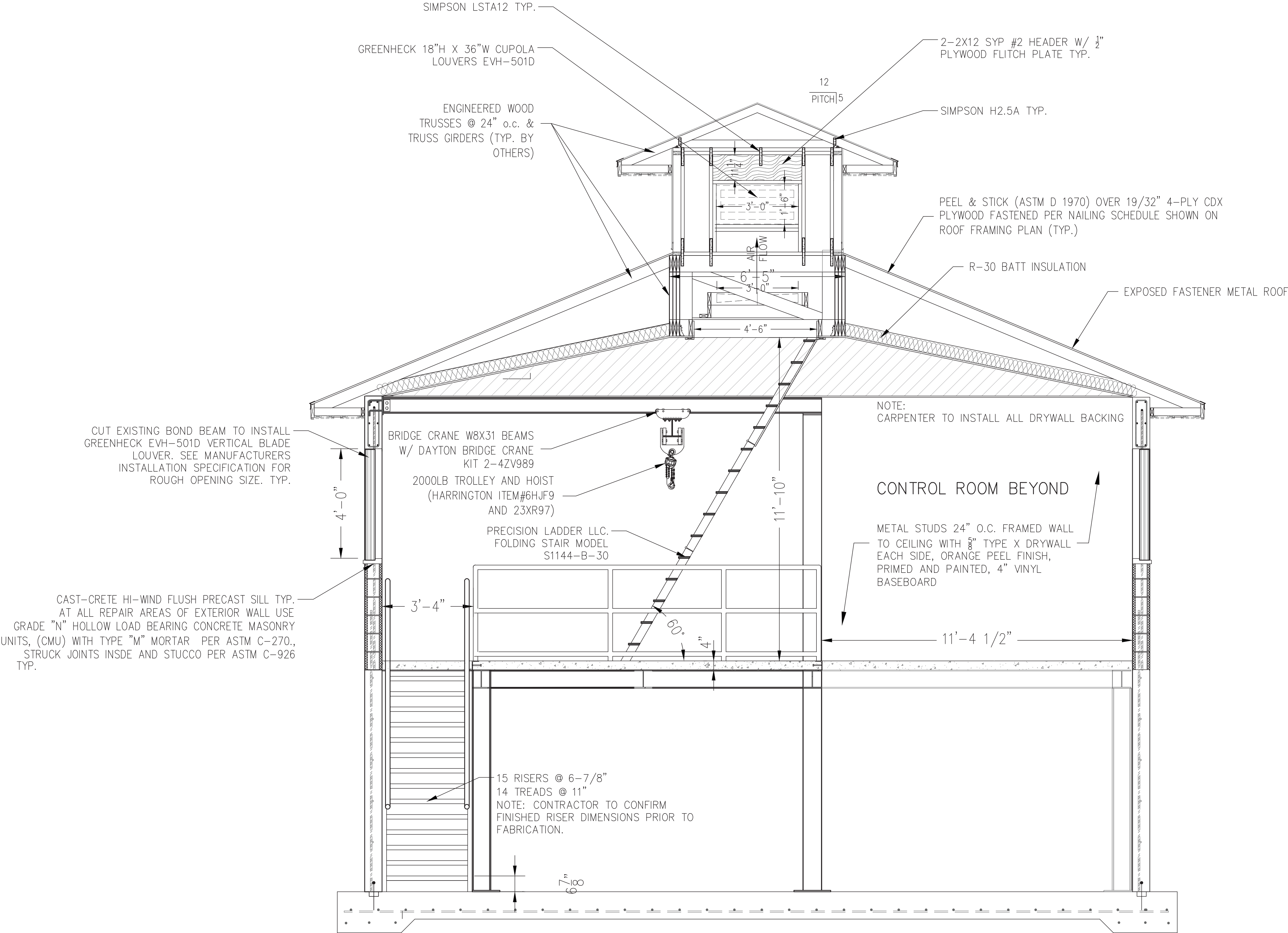
900 Pine Street, Suite 225
Englewood, Florida 34223
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Fax (941)474-4285

DATE: 03/24/23
DRAWN: TS
CHK'D BY: DC

**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

ROOF FRAMING PLAN
SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S8 OF S20
GWE NO. 6524.10



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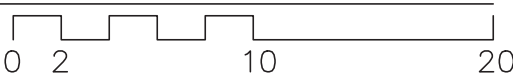
900 Pine Street, Suite 225
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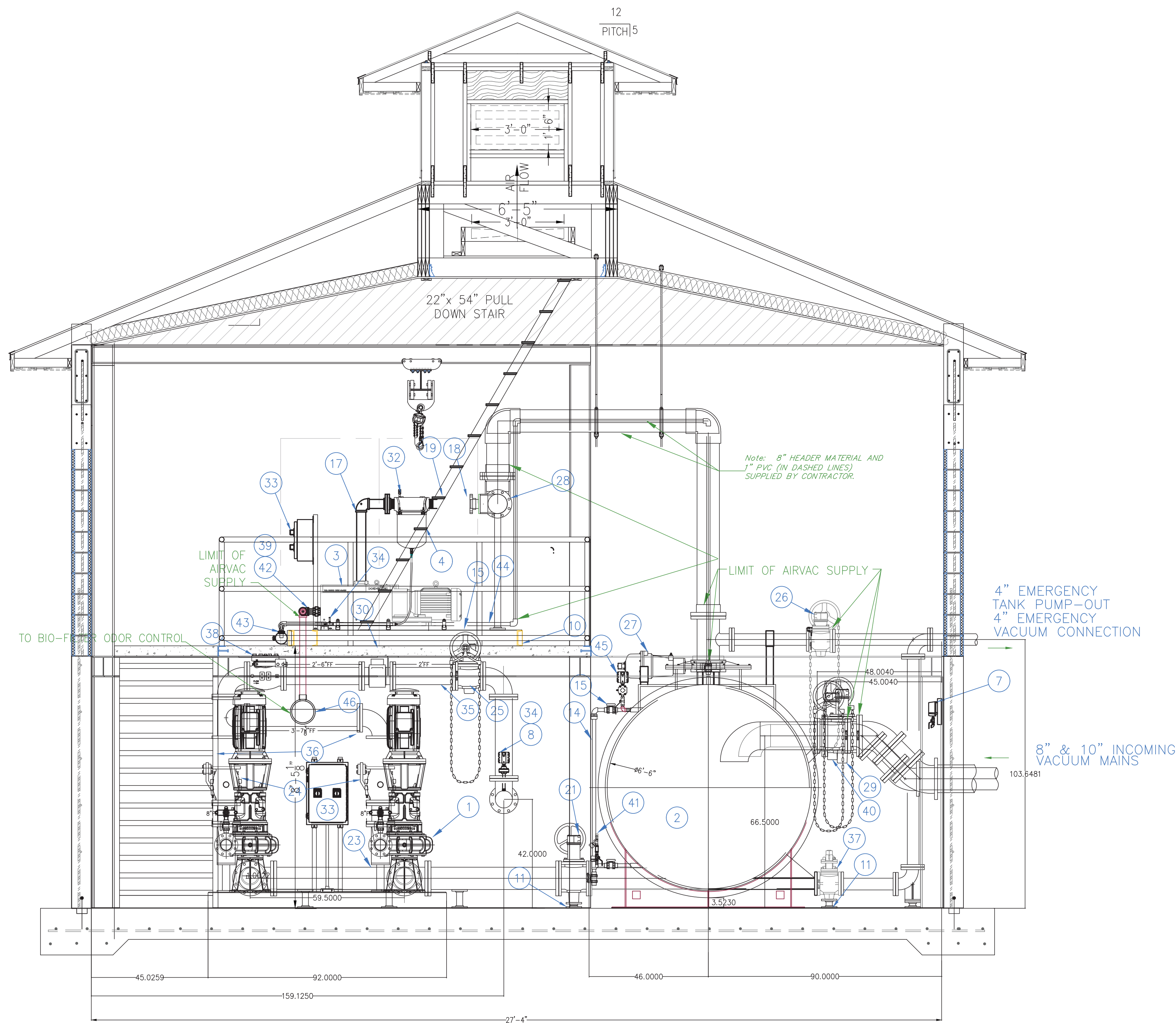
ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

SECTION A

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



PERMIT SET
SHEET: S9 OF S20
GWE NO. 6524.10



SECTION A-A

MATERIALS LIST			
#	DESCRIPTION	QTY	MFG/SUPPLIER
1.	VERTICAL COUPLED SEWAGE PUMP – MODEL 4514T–VC18DB W/ 6" X 5" BASE ELBOW	2	CORNELL
2.	6"–6" DIA. 4500 GALLON FIBERGLASS COLLECTION TANK (SEE SEPARATE DRAWING)	1	DURA–TECH
3.	VACUUM PUMP– BUSCH MINK MM 1502 AV; 353 CFM	5	BUSCH, INC.
4.	VACUUM PUMP INLET MOISTURE SEPARATOR WITH 3" NPT	5	SOLBERG
5.	MECHANICAL FLOAT BALL WITH CORD GRIP – HIGH LEVEL LOCKOUT	1	CONERY
6.	ELECTRICAL CONTROL PANEL (SEE SEPARATE DRAWING)	1	AIRVAC
7.	(3) 4 1/2" VACUUM GAUGE ASSEMBLIES ON WALL PANEL (INSTALLATION BY OTHERS)	4	ASHCROFT
8.	FORCE MAIN PRESSURE TRANSMITTER WITH 1" BALL VALVE	1	ROSEMOUNT
9.	0–30" HG. VACUUM GAUGE (TANK MOUNTED)	1	ASHCROFT
10.	STRUCTURAL STEEL SKID DECK (SEE SEPARATE DRAWINGS)	2	AIRVAC
11.	PIPE SUPPORTS AS REQUIRED (NOT ALL SHOWN FOR CLARITY)	–	AIRVAC
12.	1" FLEXIBLE EQUALIZING LINE ASSEMBLY	2	AIRVAC
13.	4–20MA RADAR LEVEL TRANSMITTER	1	VEGA
14.	1" CLEAR PVC SITE TUBE ASSEMBLY	1	AIRVAC
15.	1" PVC TRUE UNION BALL VALVE	13	SPEARS
16.	2" FULL POLYPROPYLENE 6 BOLT PORT PLUG VALVE	1	BANJO
17.	3" 304 STAINLESS STEEL VACUUM PUMP INLET PIPING	5	AIRVAC
18.	3" BUTTERFLY VALVE, LEVER OPERATED	5	BRAY
19.	3" FLANGED RESILIENT COATED SWING CHECK VALVE	5	PRATT
20.	8" X 6" ECCENTRIC REDUCER	2	AIRVAC
21.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
22.	6" RUBBER VIBRATION ISOLATORS	2	MERCER
23.	8" X 6" CEMENT LINED D.I. PUMP SUCTION PIPING	2	AIRVAC
24.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	2	PRATT
25.	6" FLANGED FULL PORT PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
26.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
27.	8" ELECTRICALLY OPERATED SPRING RETURN BUTTERFLY VALVE	1	DRESSER
28.	8" X 6" X 3" SCH 80 PVC VACUUM HEADER ASSEMBLY	1	AIRVAC
29.	10" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
30.	6" FLANGED FLOWMETER	1	SIEMENS
31.	2" AIRVAC VACUUM & CHECK VALVES (STATION SUMP)	1	AIRVAC
32.	1/4" CHROME PLATED BRASS BALL VALVE (INLET & OUTLET ON SOLBERG FILTERS)	10	PRECISON
33.	ELECTRICAL JUNCTION BOX (see electrical drawings)	3	AIRVAC
34.	1/2" S.S. BALL VALVE FOR GAUGE COCKS	10	NIBCO
35.	6" CEMENT LINED D.I. FORCE MAIN ASSEMBLY	1	AIRVAC
36.	6" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
37.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ 2" NUT & LEVER	1	PRATT
38.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	1	PRATT
39.	2" 304 STAINLESS STEEL VACUUM PUMP EXHAUST PIPING	5	AIRVAC
40.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
41.	ANTI–CAVITATION ASSEMBLY	1	AIRVAC
42.	2" 316 STAINLESS STEEL WAFER STYLE CHECK VALVE	5	US VALVE
43.	CONDENSATION HEADER	1	AIRVAC
44.	CONDENSATION RETURN LINE	1	AIRVAC
45.	4–20MA PRESSURE TRANSMITTER	1	ROSEMOUNT
46.	6" S.S. VACUUM PUMP EXHAUST HEADER	1	AIRVAC

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PROFESSIONAL ENGINEER OF RECORD
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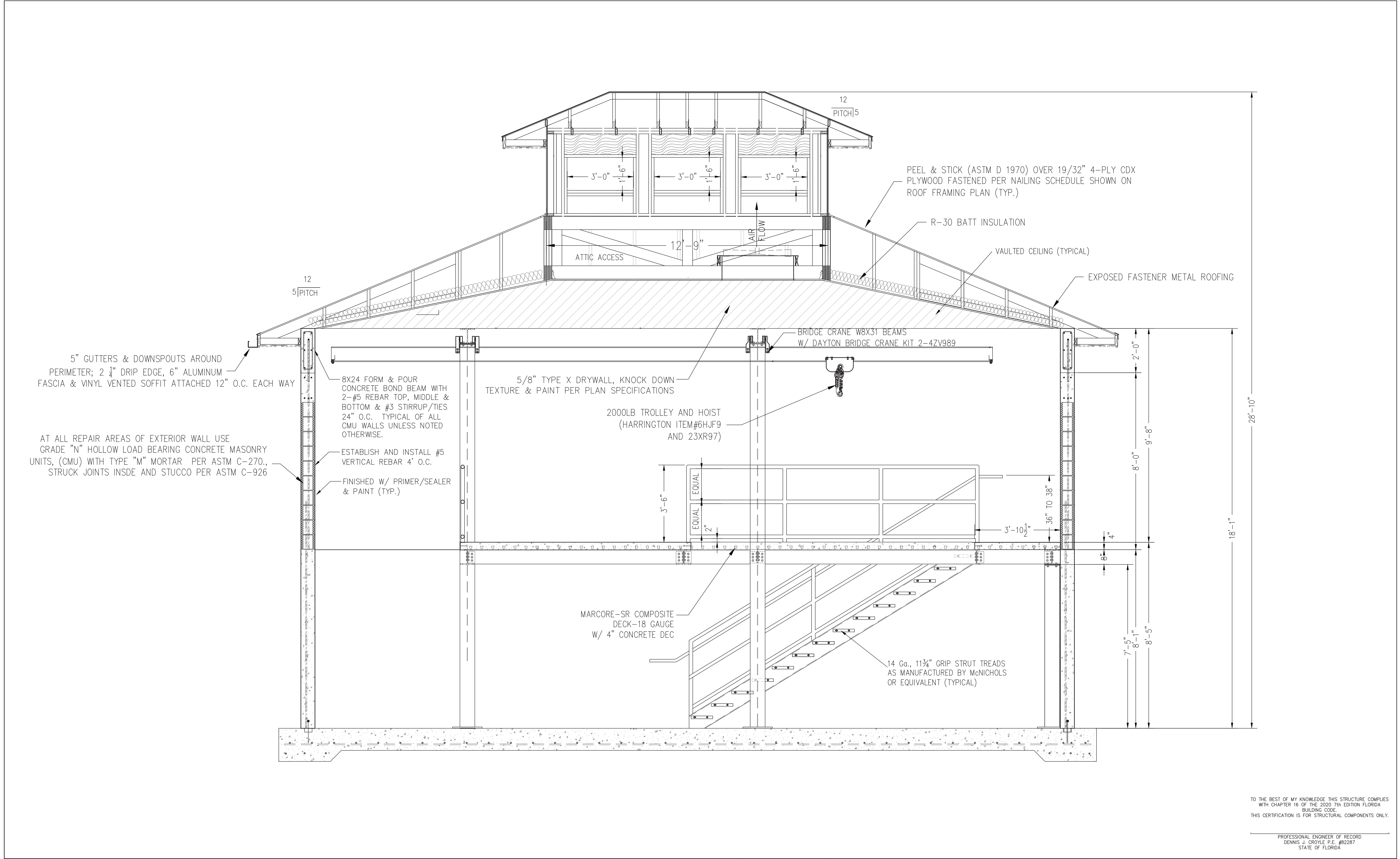
DATE: 03/24/23
DRAWN: TS
CHK'D BY: DC

ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

AIRVAC SECTION A

SCALE : 1/2"=1'-0" 0 2 10 20

PERMIT SET
SHEET: S100FS20
GWE NO. 6524.10



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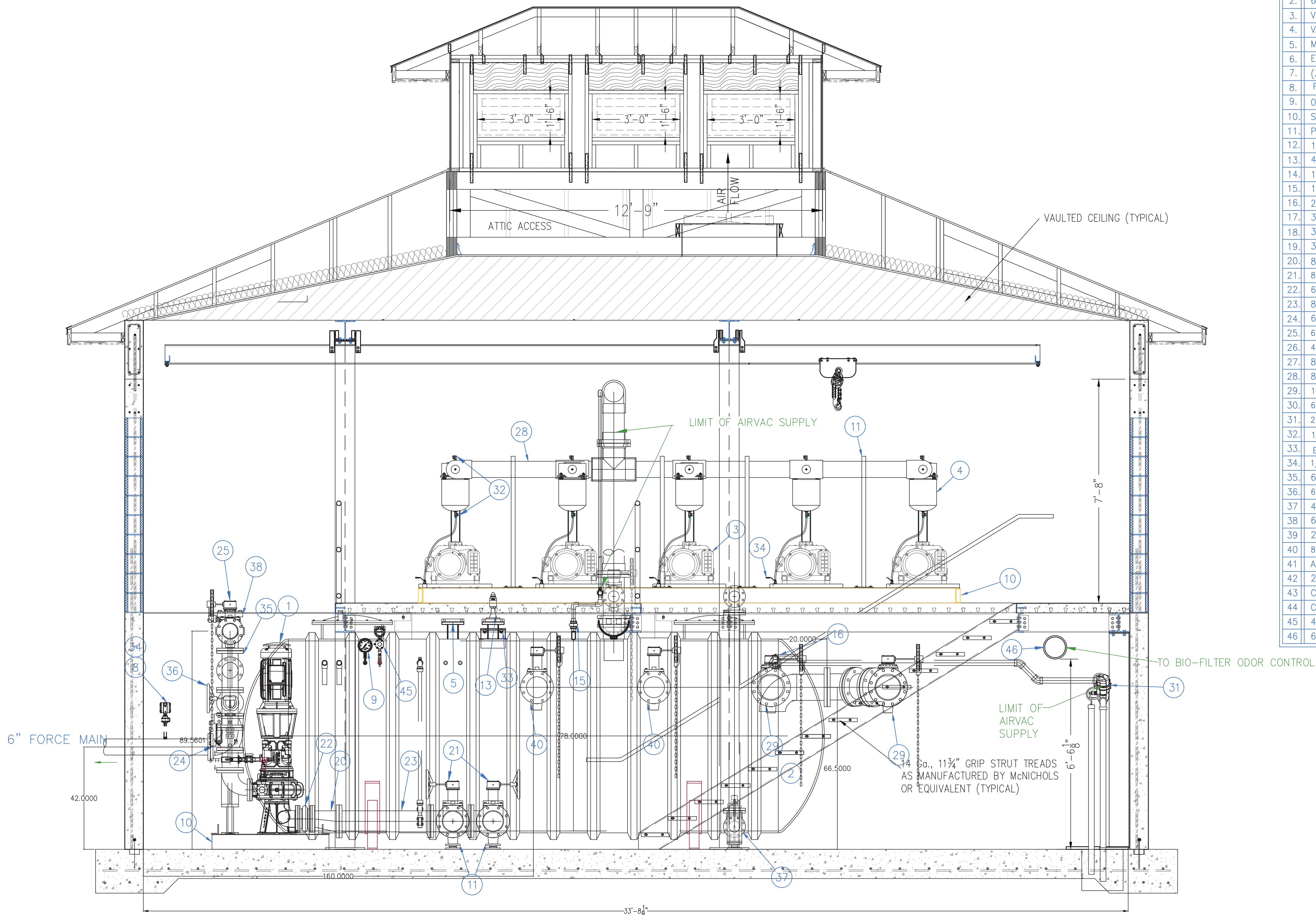
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DRAWN:	TS
CHK'D BY:	DC

ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

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

PERMIT SET
SHEET: S110F S20
GWE NO. 6524.10



SECTION B--B

MATERIALS LIST

#	DESCRIPTION	QTY	MFG/SUPPLIER
1.	VERTICAL COUPLED SEWAGE PUMP – MODEL 4514T–VC18DB W/ 6" X 5" BASE ELBOW	2	CORNELL
2.	6"–6" DIA. 4500 GALLON FIBERGLASS COLLECTION TANK (SEE SEPARATE DRAWING)	1	DURA–TECH
3.	VACUUM PUMP– BUSCH MINK MM 1502 AV; 353 CFM	5	BUSCH, INC.
4.	VACUUM PUMP INLET MOISTURE SEPARATOR WITH 3" NPT	5	SOLBERG
5.	MECHANICAL FLOAT BALL WITH CORD GRIP – HIGH LEVEL LOCKOUT	1	CONERY
6.	ELECTRICAL CONTROL PANEL (SEE SEPARATE DRAWING)	1	AIRVAC
7.	(3) 4 1/2" VACUUM GAUGE ASSEMBLIES ON WALL PANEL (INSTALLATION BY OTHERS)	4	ASHCROFT
8.	FORCE MAIN PRESSURE TRANSMITTER WITH 1" BALL VALVE	1	ROSEMOUNT
9.	0–30" HG. VACUUM GAUGE (TANK MOUNTED)	1	ASHCROFT
10.	STRUCTURAL STEEL SKID DECK (SEE SEPARATE DRAWINGS)	2	AIRVAC
11.	PIPE SUPPORTS AS REQUIRED (NOT ALL SHOWN FOR CLARITY)	–	AIRVAC
12.	1" FLEXABLE EQUALIZING LINE ASSEMBLY	2	AIRVAC
13.	4–20MA RADAR LEVEL TRANSMITTER	1	VEGA
14.	1" CLEAR PVC SITE TUBE ASSEMBLY	1	AIRVAC
15.	1" PVC TRUE UNION BALL VALVE	13	SPEARS
16.	2" FULL POLYPROPYLENE 6 BOLT PORT PLUG VALVE	1	BANJO
17.	3" 304 STAINLESS STEEL VACUUM PUMP INLET PIPING	5	AIRVAC
18.	3" BUTTERFLY VALVE, LEVER OPERATED	5	BRAY
19.	3" FLANGED RESILIENT COATED SWING CHECK VALVE	5	PRATT
20.	8" X 6" ECCENTRIC REDUCER	2	AIRVAC
21.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
22.	6" RUBBER VIBRATION ISOLATORS	2	MERCER
23.	8" X 6" CEMENT LINED D.I. PUMP SUCTION PIPING	2	AIRVAC
24.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	2	PRATT
25.	6" FLANGED FULL PORT PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
26.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	1	PRATT
27.	8" ELECTRICALLY OPERATED SPRING RETURN BUTTERFLY VALVE	1	DRESSER
28.	8" X 6" X 3" SCH 80 PVC VACUUM HEADER ASSEMBLY	1	AIRVAC
29.	10" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
30.	6" FLANGED FLOWMETER	1	SIEMENS
31.	2" AIRVAC VACUUM & CHECK VALVES (STATION SUMP)	1	AIRVAC
32.	1/4" CHROME PLATED BRASS BALL VALVE (INLET & OUTLET ON SOLBERG FILTERS)	10	PRECISON
33.	ELECTRICAL JUNCTION BOX (see electrical drawings)	3	AIRVAC
34.	1/2" S.S. BALL VALVE FOR GAUGE COCKS	10	NIBCO
35.	6" CEMENT LINED D.I. FORCE MAIN ASSEMBLY	1	AIRVAC
36.	6" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND HAND WHEEL	2	PRATT
37.	4" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ 2" NUT & LEVER	1	PRATT
38.	6" FLANGED CHECK VALVE WITH OUTSIDE WEIGHT AND LEVER	1	PRATT
39.	2" 304 STAINLESS STEEL VACUUM PUMP EXHAUST PIPING	5	AIRVAC
40.	8" FLANGED FULL PORT RESILIENT COATED PLUG VALVE W/ GEAR OPERATOR AND CHAIN WHEEL	2	PRATT
41.	ANTI–CAVITATION ASSEMBLY	1	AIRVAC
42.	2" 316 STAINLESS STEEL WAFER STYLE CHECK VALVE	5	US VALVE
43.	CONDENSATION HEADER	1	AIRVAC
44.	CONDENSATION RETURN LINE	1	AIRVAC
45.	4–20MA PRESSURE TRANSMITTER	1	ROSEMOUNT
46.	6" S.S. VACUUM PUMP EXHAUST HEADER	1	AIRVAC

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2020 7th EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD
DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

DATE	REVISION	BY

GWE GIFFELS-WEBSTER
ENGINEERS, INC.
CERTIFICATE OF AUTHORIZATION #3607

900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475–7981
Fax (941)474–4285

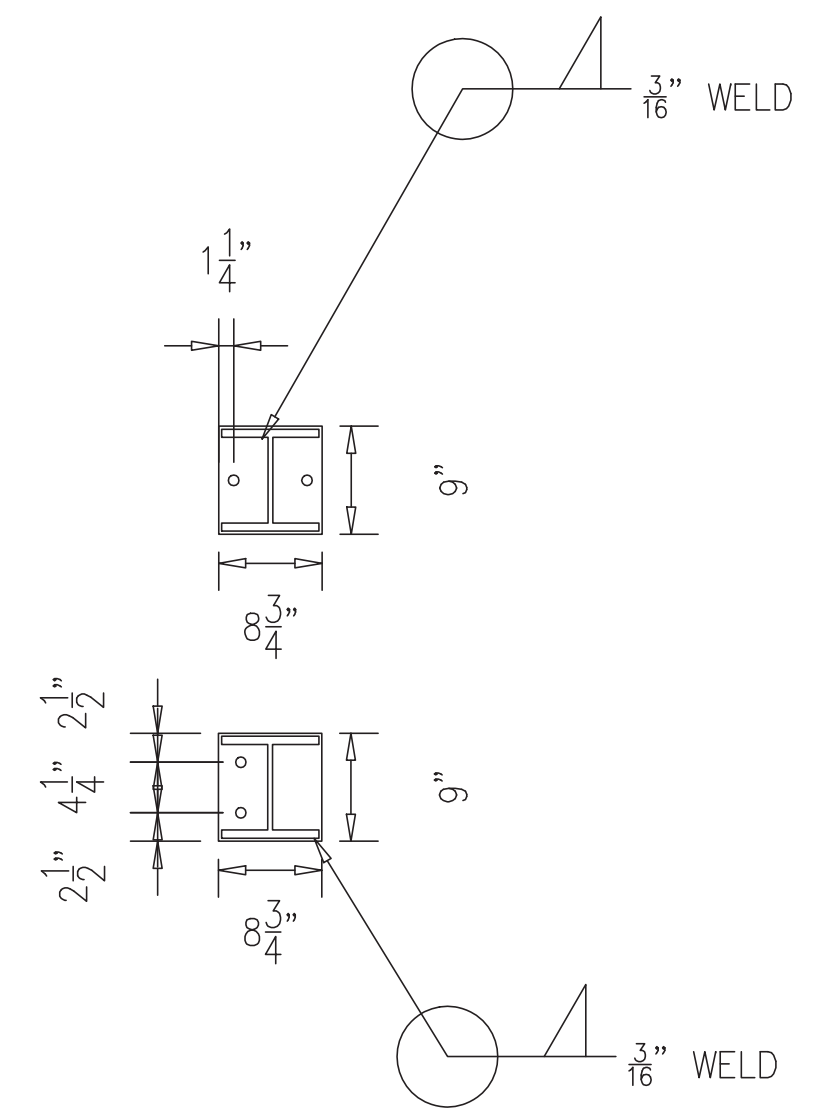
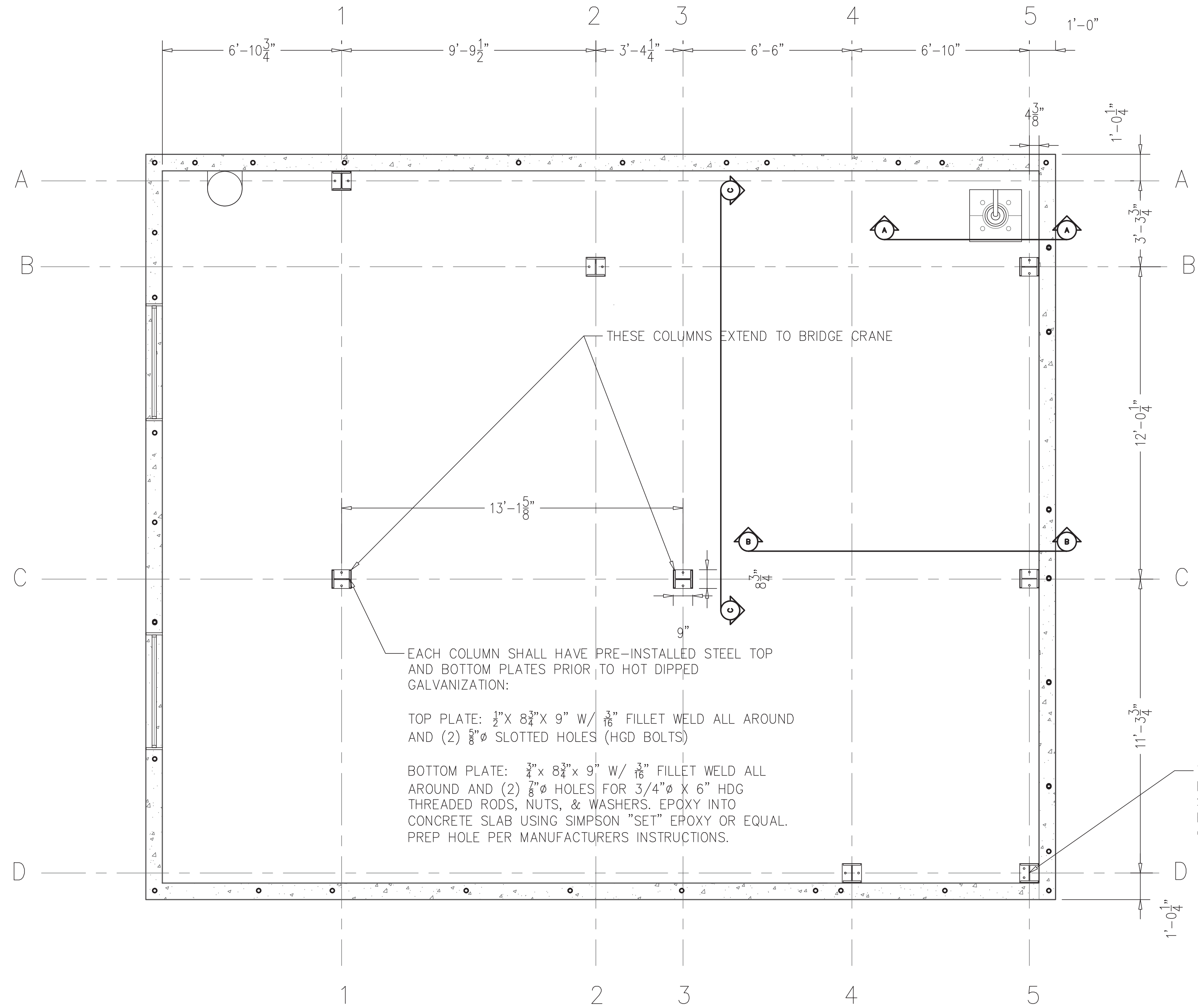
DATE: 03/24/23
DRAWN: TS
CHK'D BY: DC

ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

AIRVAC SECTION B

SCALE : 1/2"=1'-0" 0 2 10 20

PERMIT SET
SHEET: S120F S20
GWE NO. 6524.10



THIS COLUMN TOP AND BOTTOM PLATES SHALL HAVE BOTH HOLES ON ONE SIDE OF COLUMN

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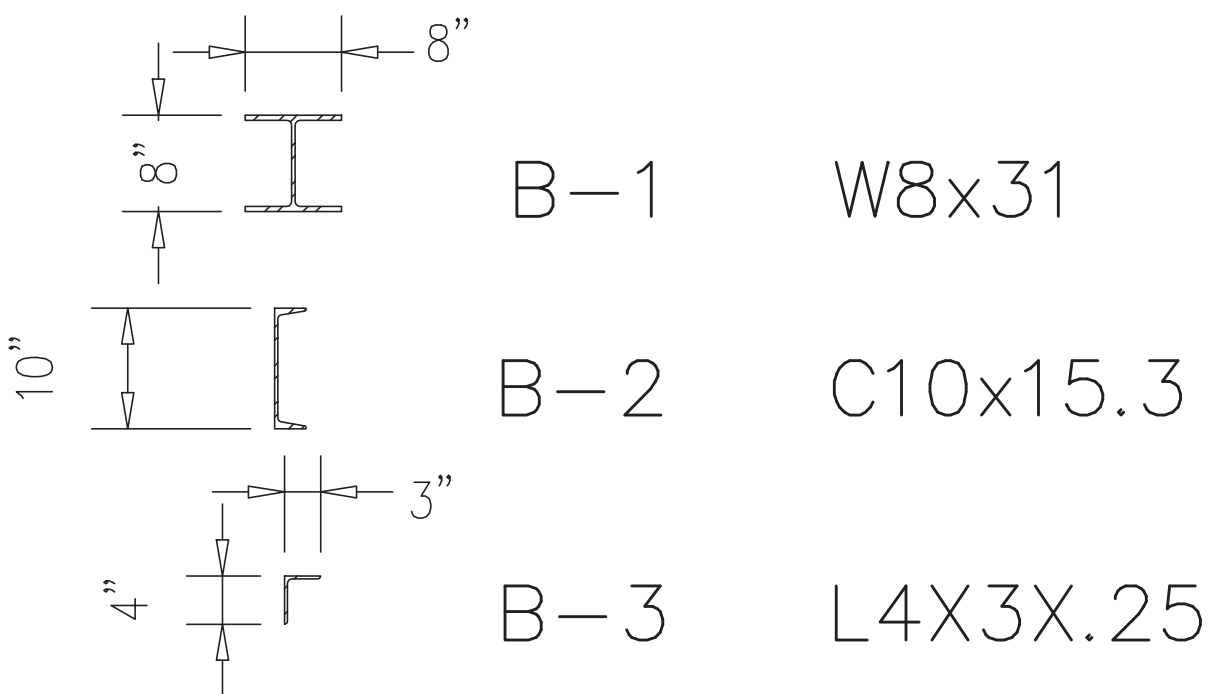
DATE: 03/24/23
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**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

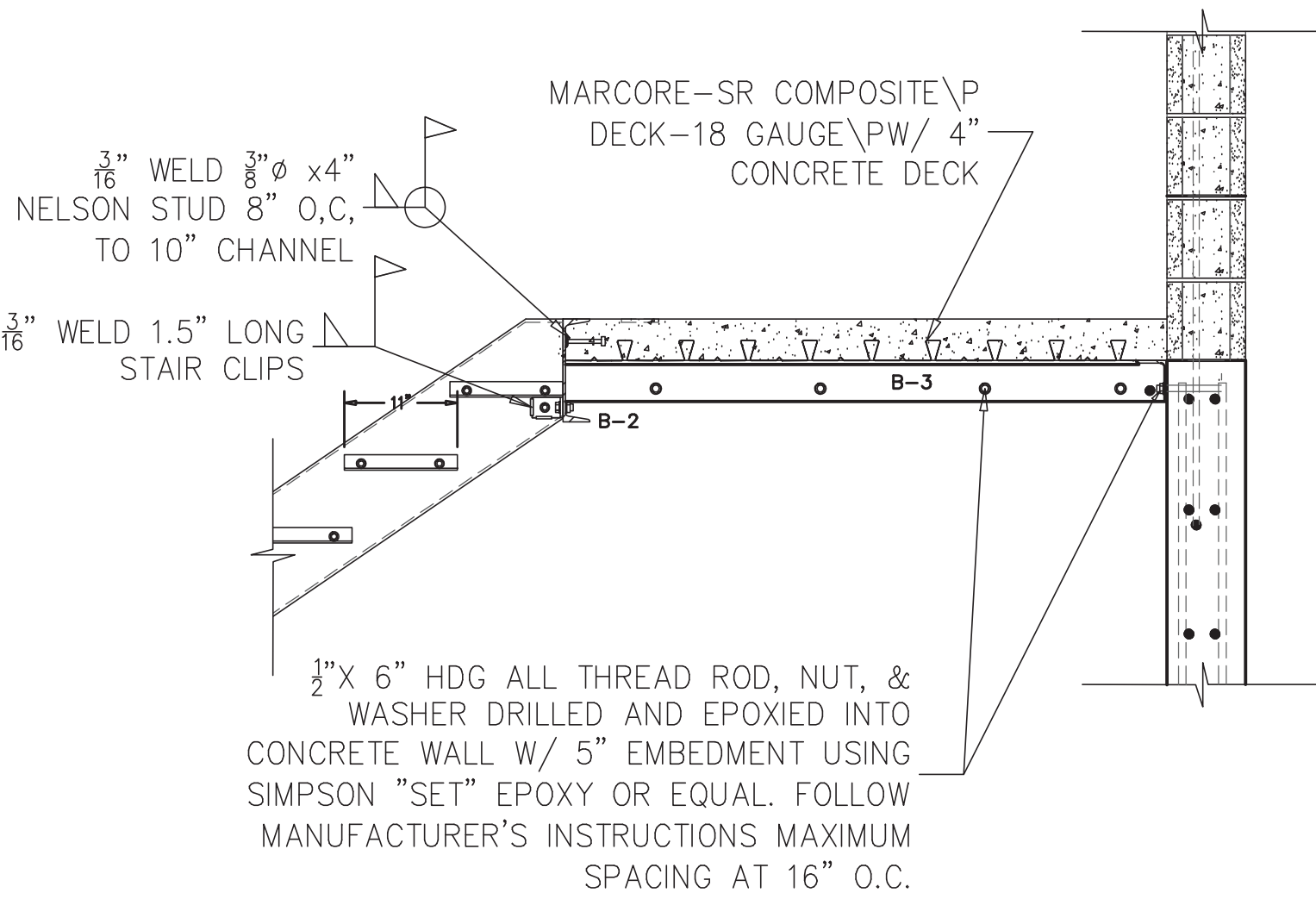
COLUMN LAYOUT
SCALE : 1/2"=1'-0" 0 2 10 20

PERMIT SET
SHEET: S13 OF S20
GWE NO. 6524.10

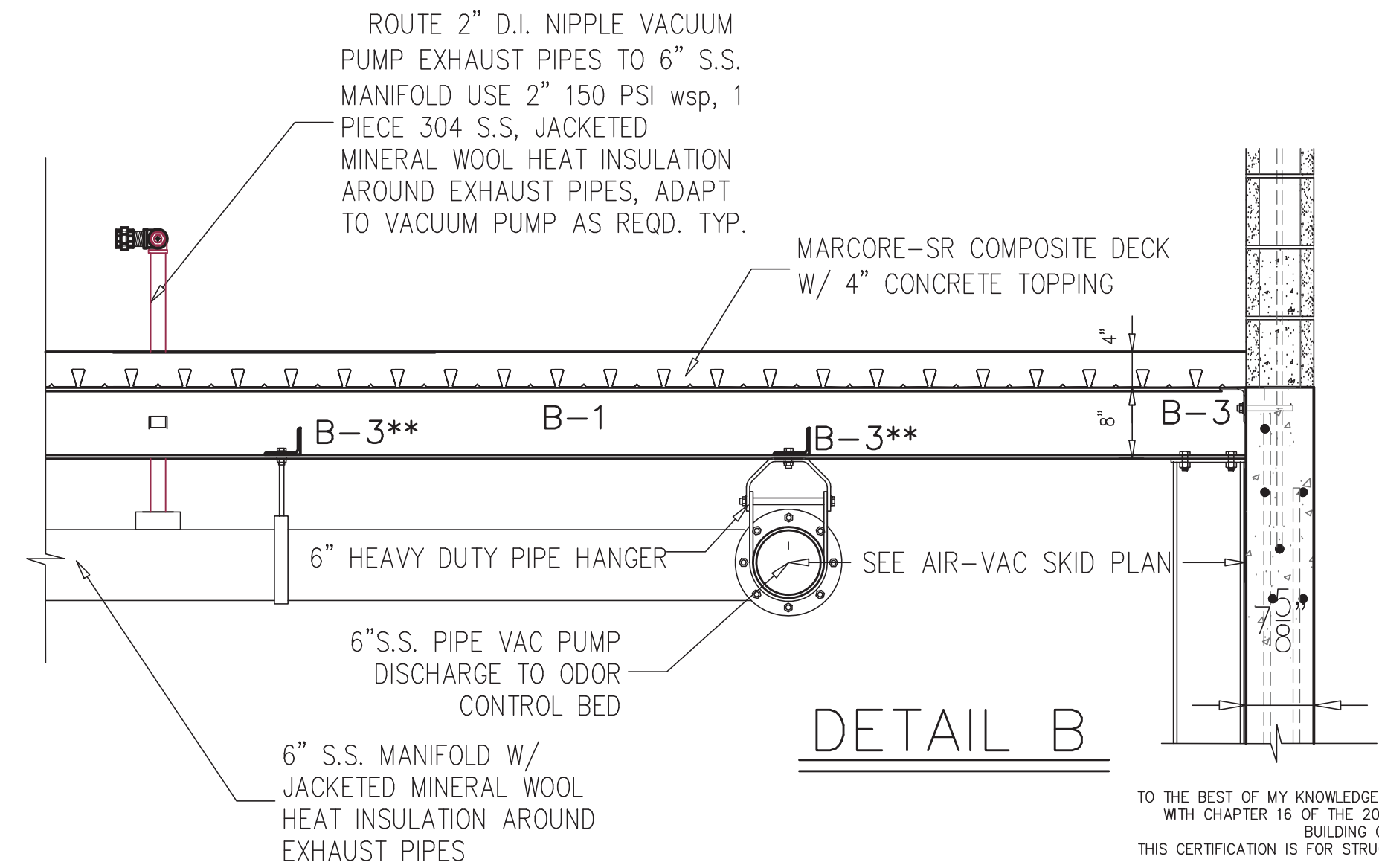
FLOOR FRAMING LEGEND
A36 STRUCTURAL CARBON GRADE STEEL



* = WEB TO WEB TOP OF BOTTOM FLANGE W/ 1/2" BOLTS, NUTS, & WASHERS, STIFFENERS
** = WEB TO WEB TOP OF BOTTOM FLANGE W/ 1/2" BOLTS, NUTS, & WASHERS, EXHAUST PIPE SUPPORTS



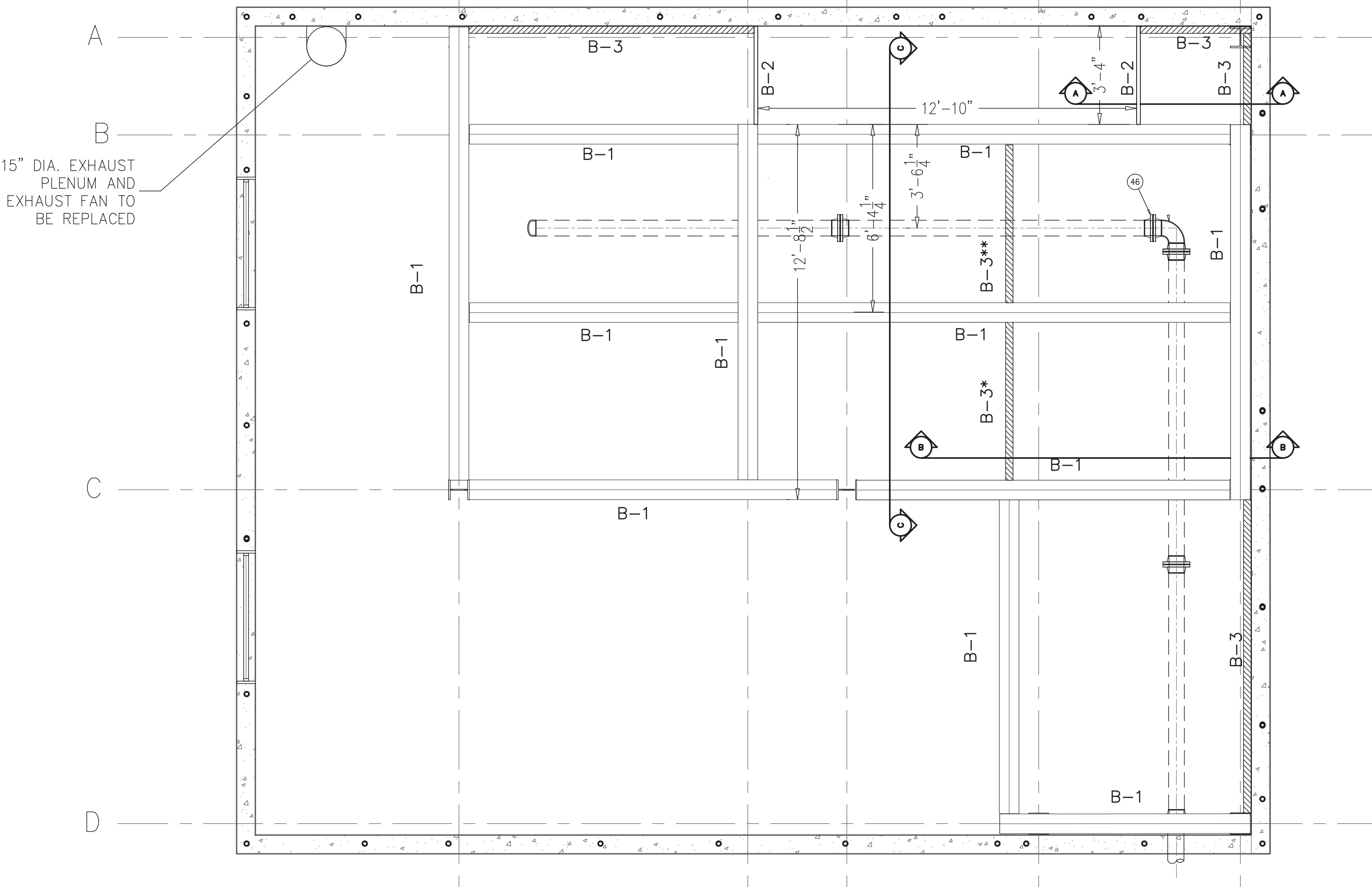
DETAIL A



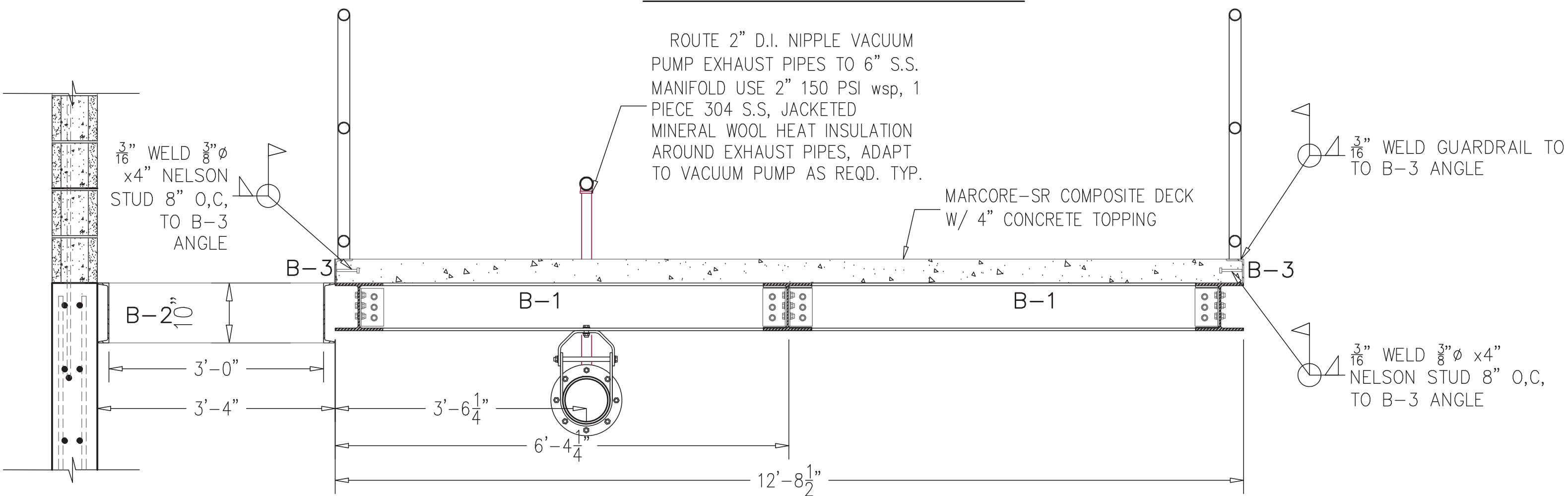
DETAIL B

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DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA



2ND FLOOR BEAMS



DETAIL C

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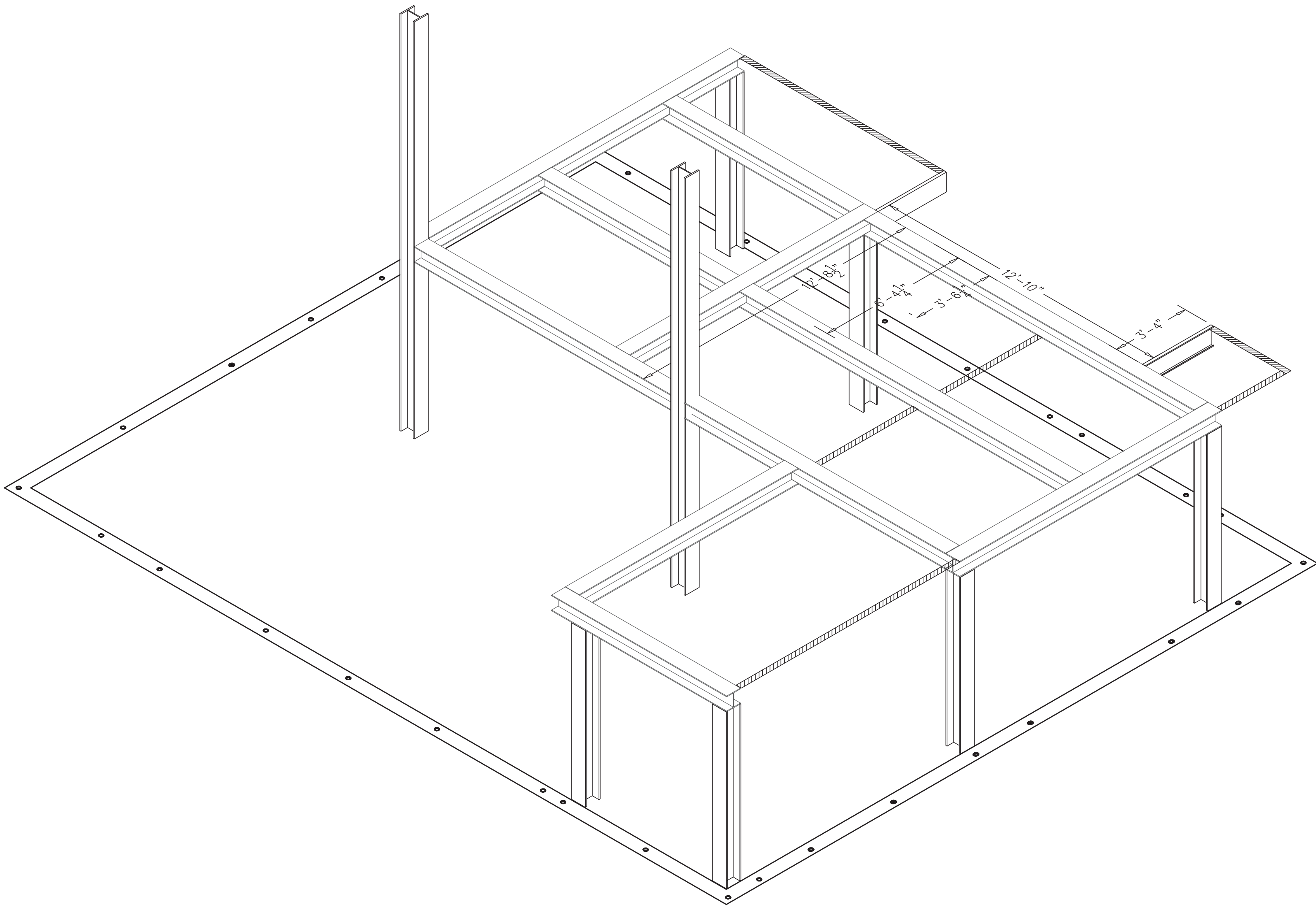
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Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

DATE: 03/24/23
DRAWN: TS
CHK'D BY: DC

ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

2ND FLOOR BEAMS
SCALE : 1/2"=1'-0"

PERMIT SET
SHEET: S14 OF S20
GWE NO. 6524.10



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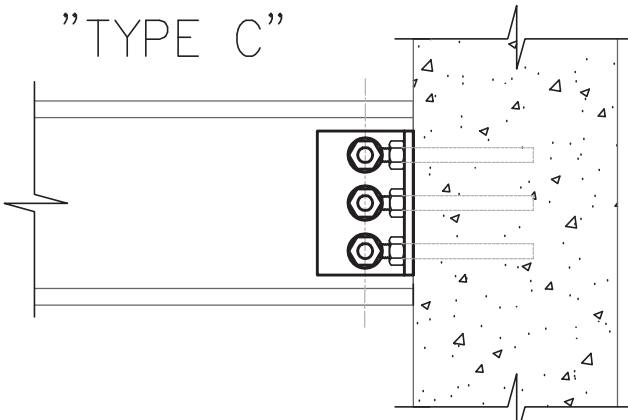
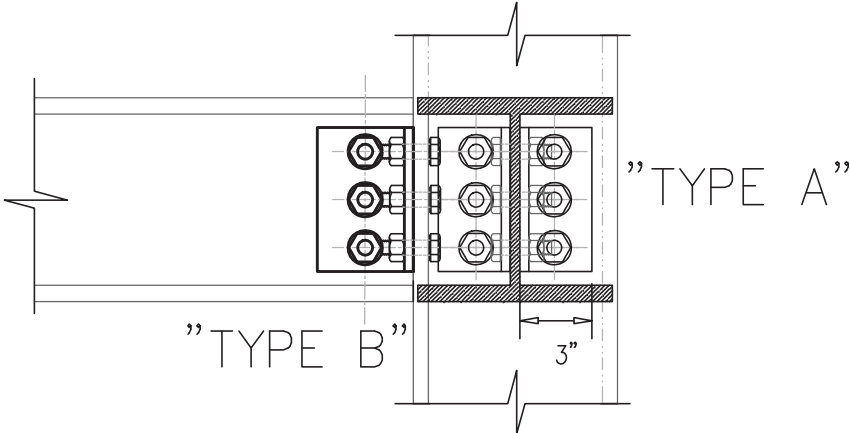
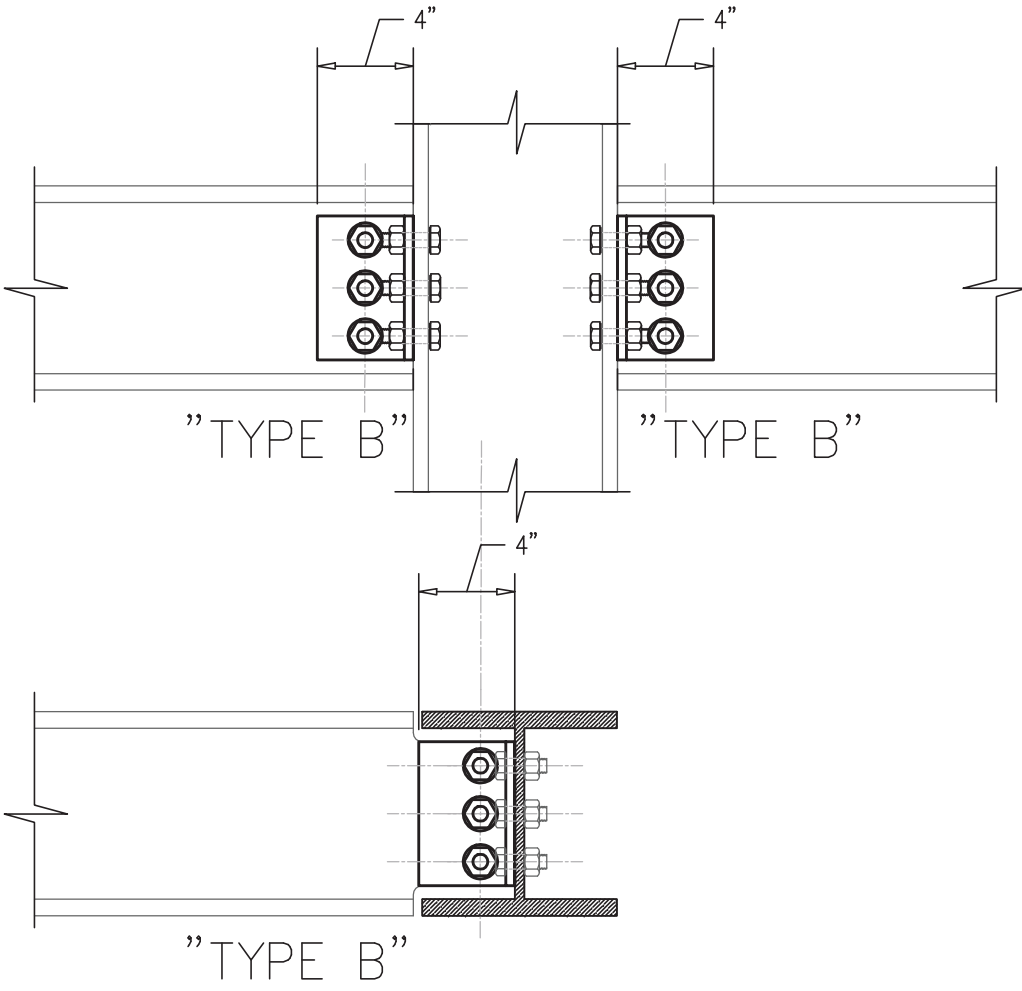
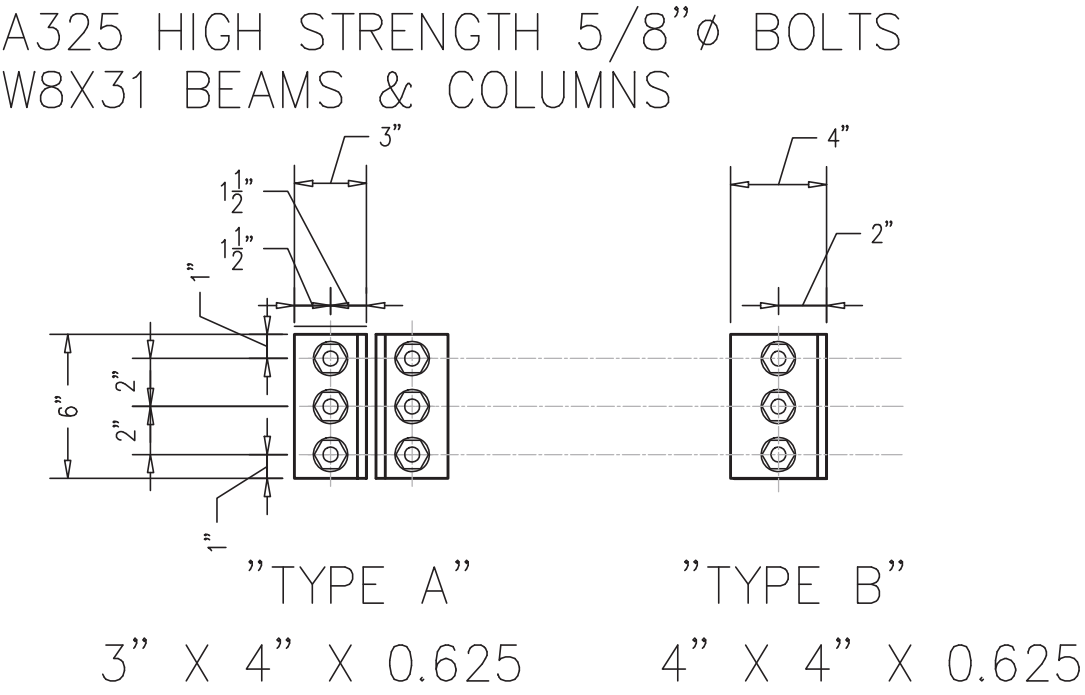
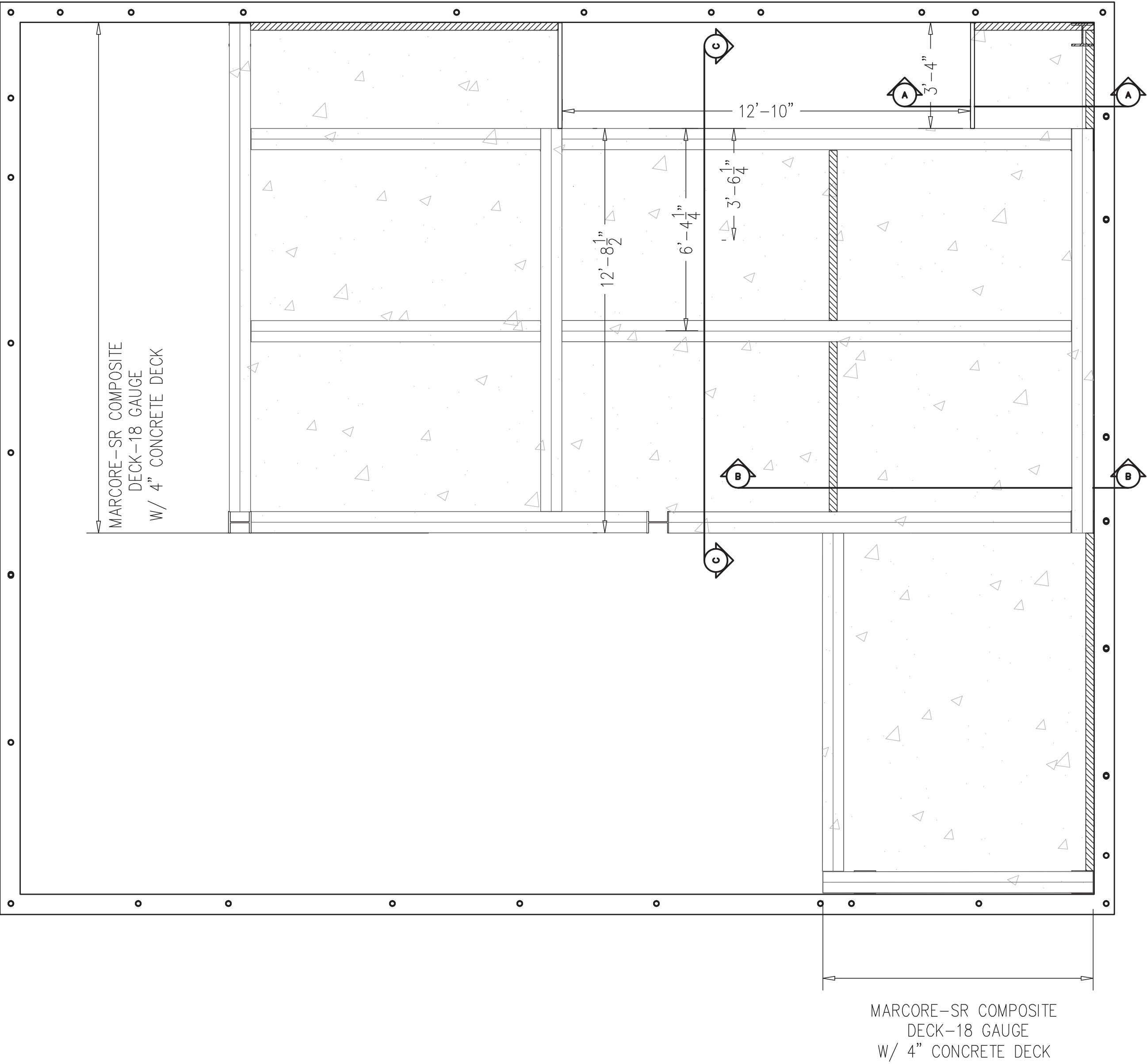
DATE:	03/24/23
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**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

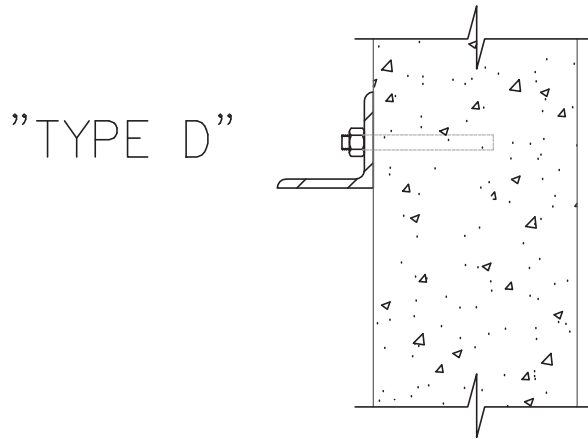
2ND FLOOR BEAM ISOMETRIC

SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S15 OF S20
GWE NO. 6524.10



5/8"Ø BOLTS; 5" EMBEDMENT; SIMPSON "SET" EPOXY



COLUMN TO BEAM &
BEAM TO BEAM CONNECTIONS

SCALE: 1 1/2" = 1'

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DENNIS J. GROYLE P.E. #62287
STATE OF FLORIDA

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**GIFFELS-WEBSTER
ENGINEERS, INC.**

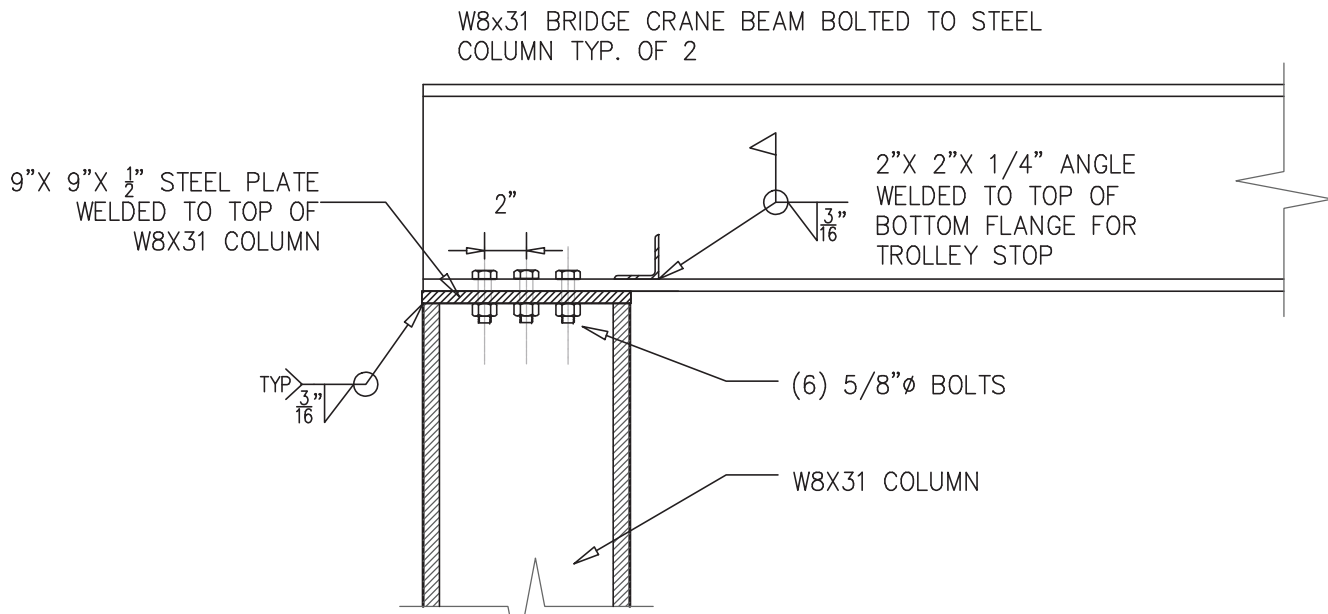
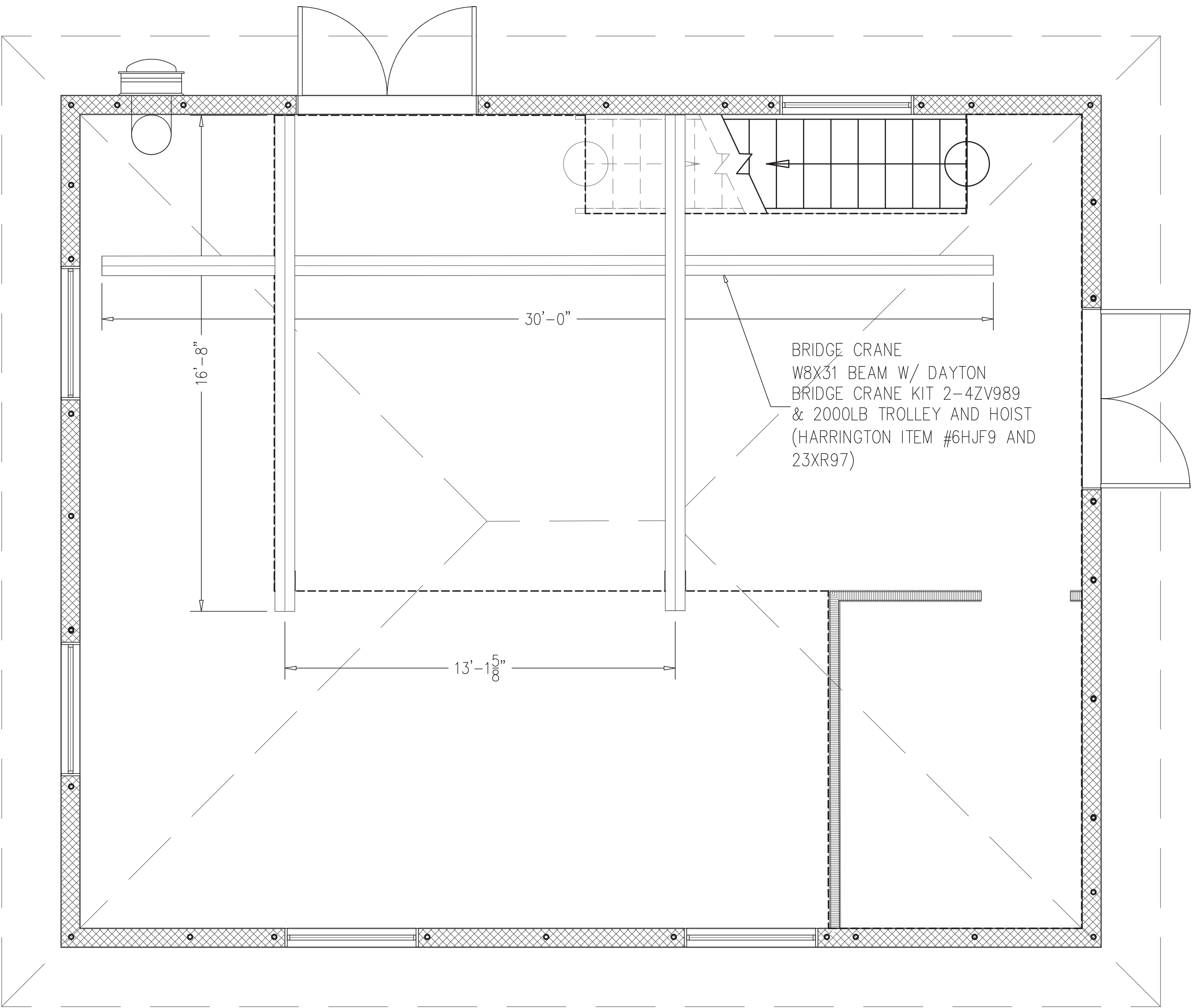
900 Pine Street, Suite 225
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Fax (941)474-4285

DATE:	03/24/23
DRAWN:	TS
CHK'D BY:	DC

**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

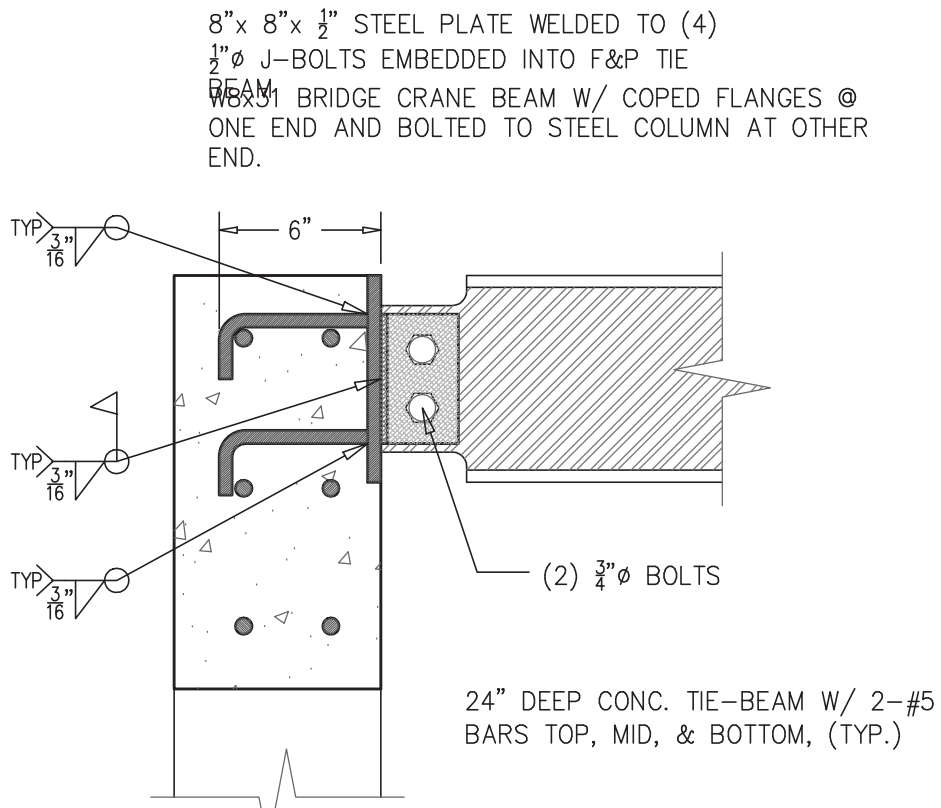
2ND FLOOR SLAB
SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S16 OF S20
GWE NO. 6524.10



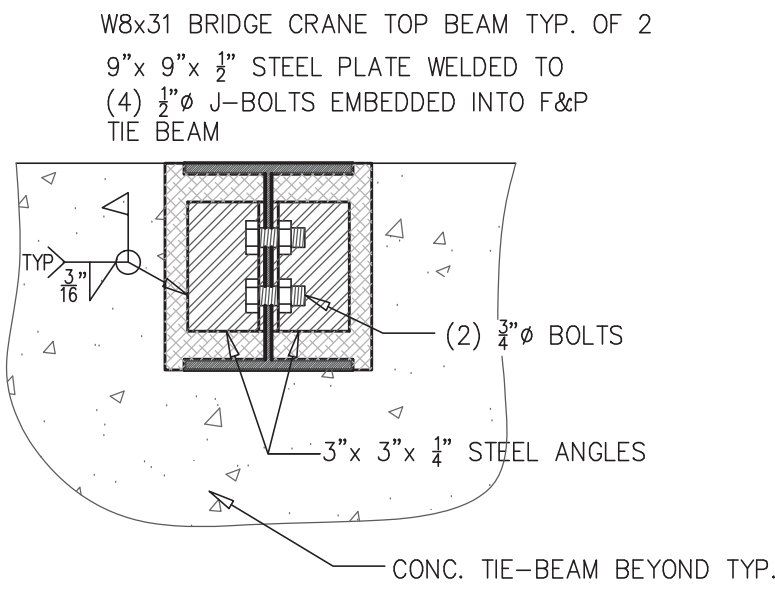
BRIDGE CRANE SUPPORT DETAIL
— BEAM TO COLUMN

SCALE: N.T.S.



BRIDGE CRANE SUPPORT DETAIL
SECTION THROUGH TIE-BEAM

SCALE: N.T.S.



BRIDGE CRANE SUPPORT DETAIL
— SECTION THROUGH TOP BEAMS

SCALE: N.T.S.

BRIDGE CRANE BEAM CONNECTIONS

SCALE: N.T.S.

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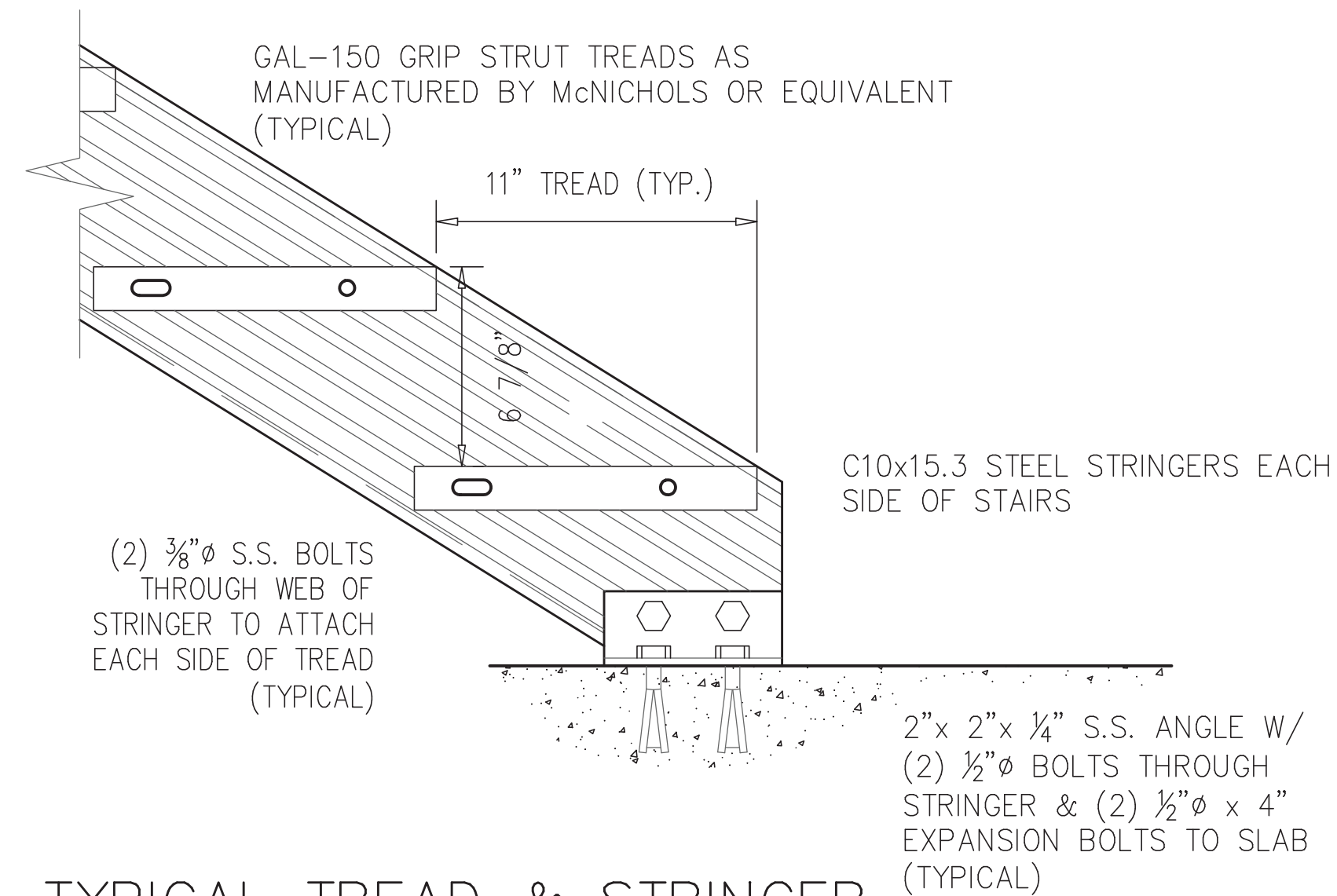
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ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

BRIDGE CRANE

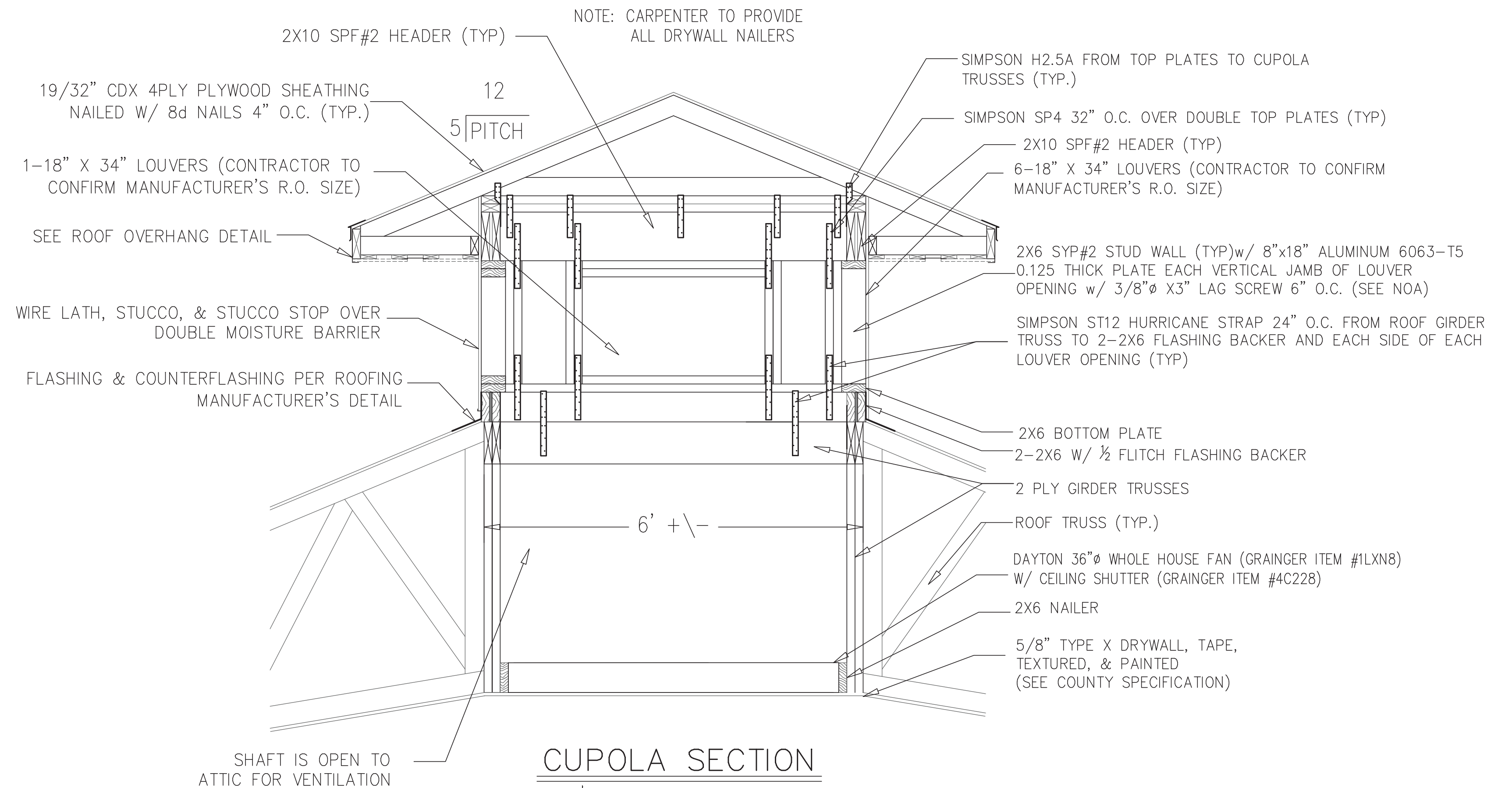
SCALE : 1/2"=1'-0" 0 2 10 20

PERMIT SET
SHEET: S17 OF S20
GWE NO. 6524.10



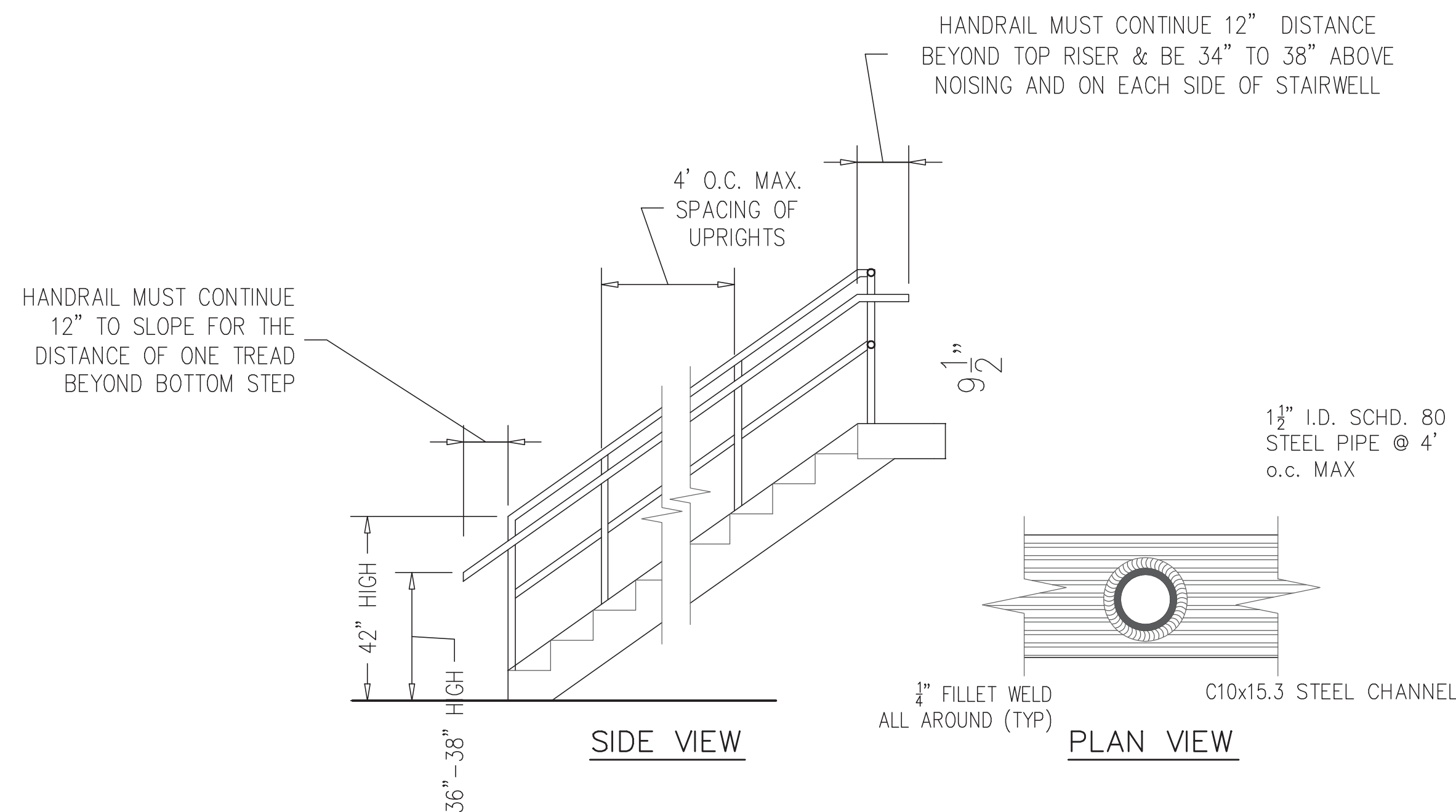
TYPICAL TREAD & STRINGER

SCALE: N.T.S.



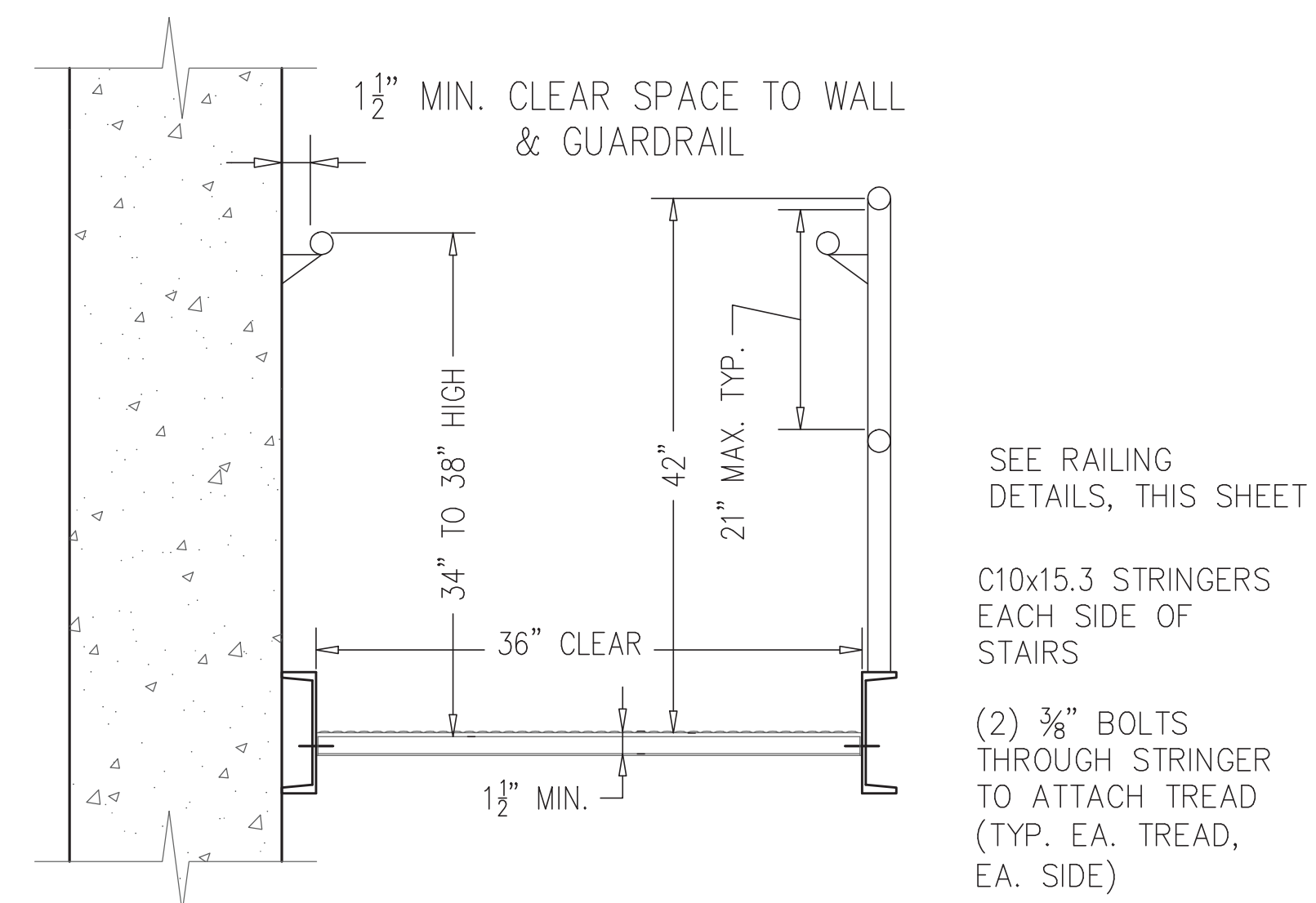
CUPOLA SECTION

SCALE: N.T.S.



TYPICAL STAIR RAILING

SCALE: N.T.S.



TYPICAL STAIR SECTION

SCALE: N.T.S.

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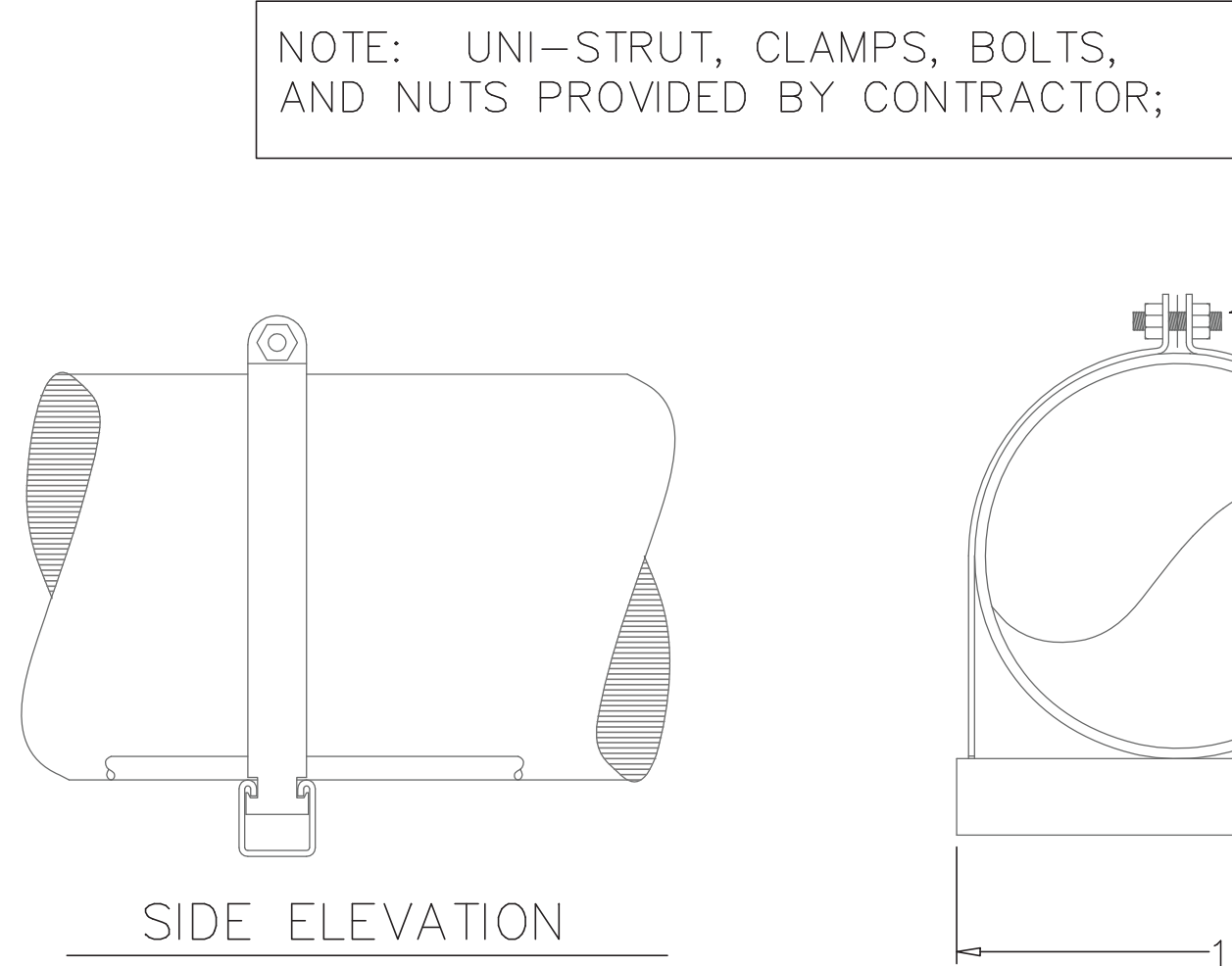
**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

DETAILS

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

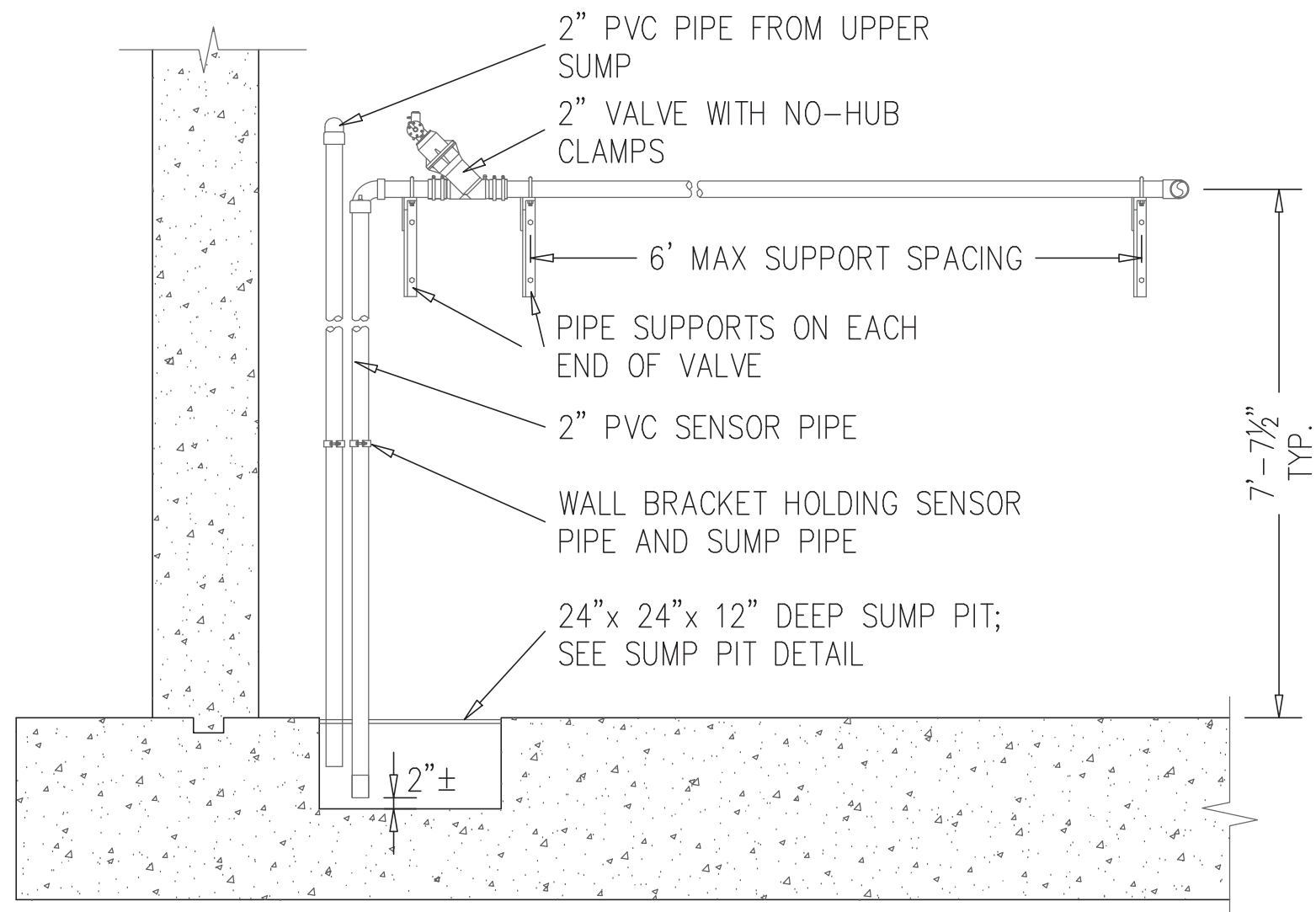
PERMIT SET
SHEET: S18 OF S20
GWE NO. 6524.10

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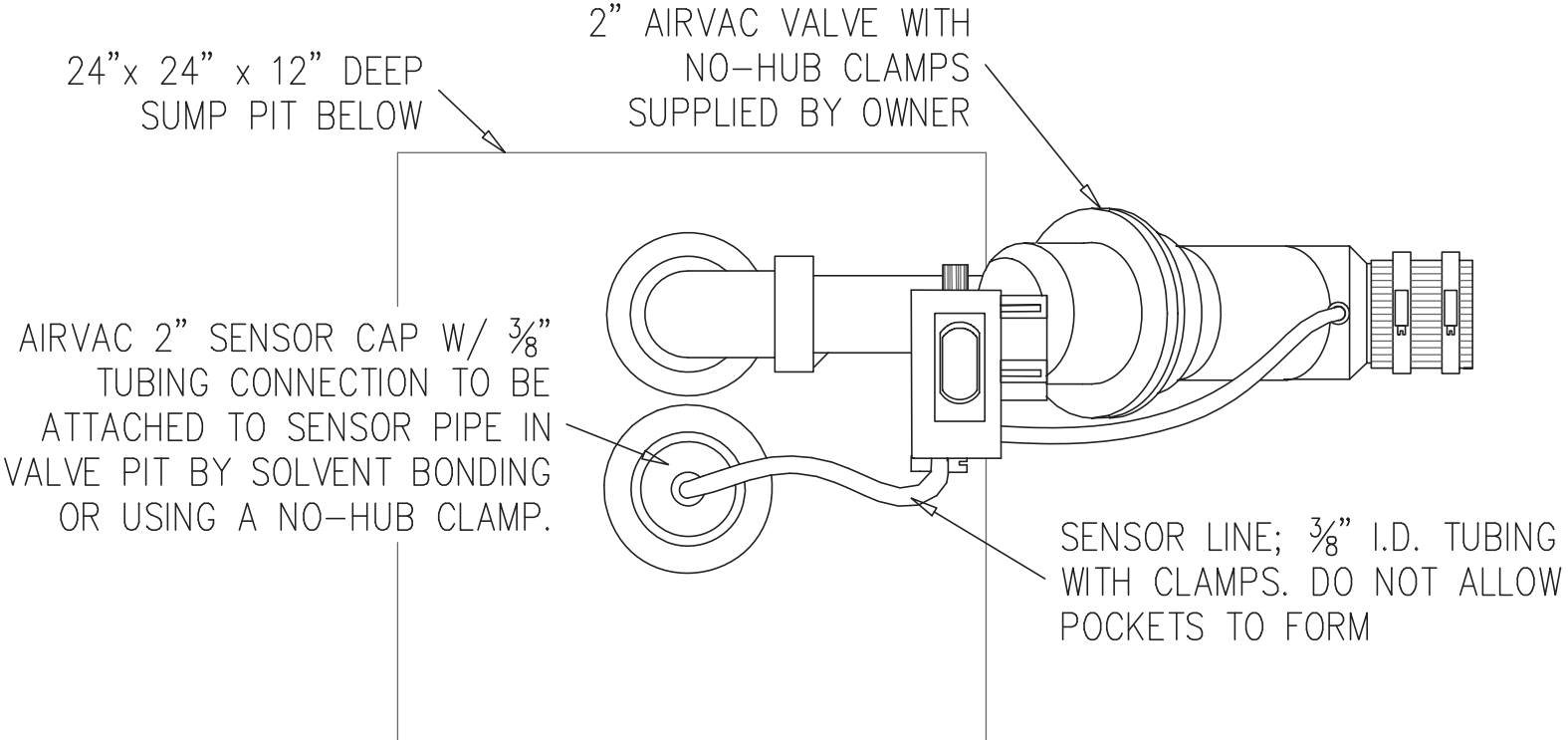
UNI-STRUT CLAMP DETAIL

VACUUM HEADER
UNI-STRUT DETAIL
SCALE: N.T.S.



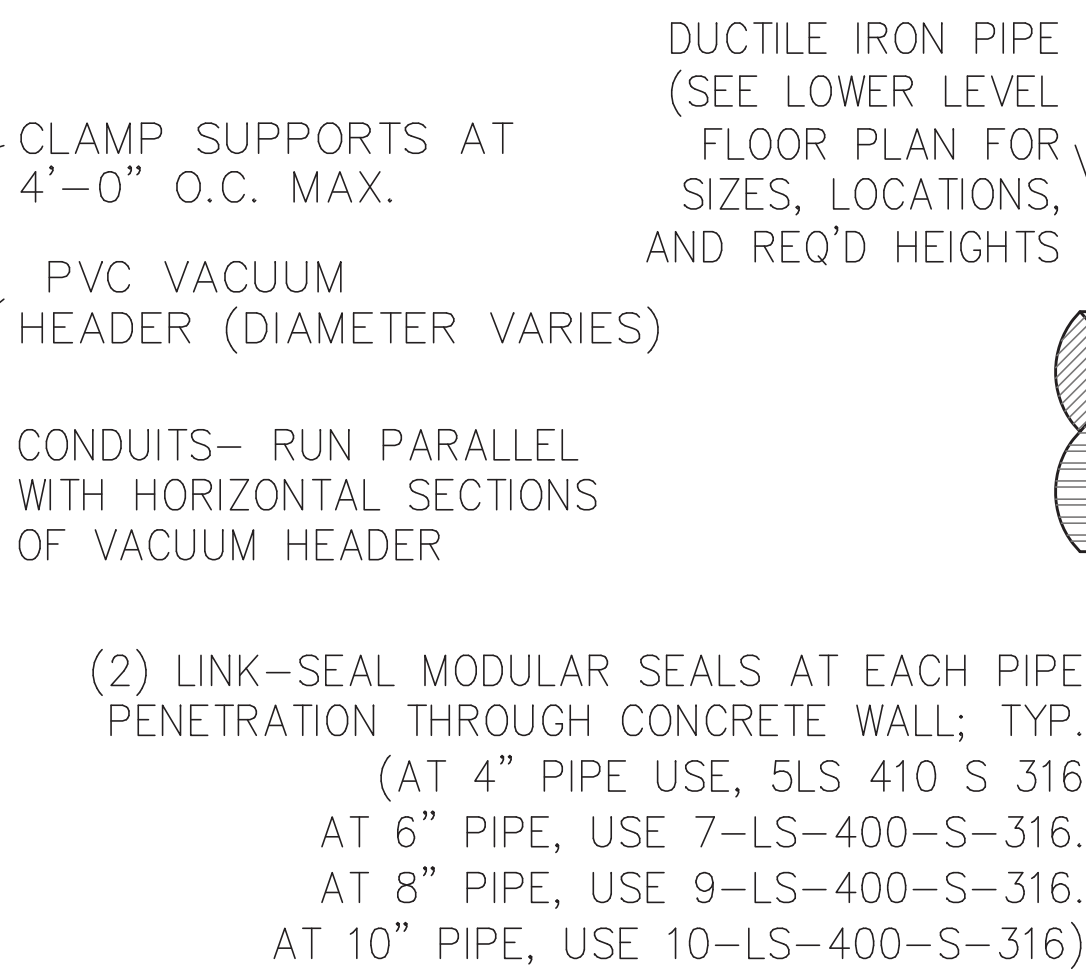
SUMP PIPING DETAIL

SCALE: N.T.S.



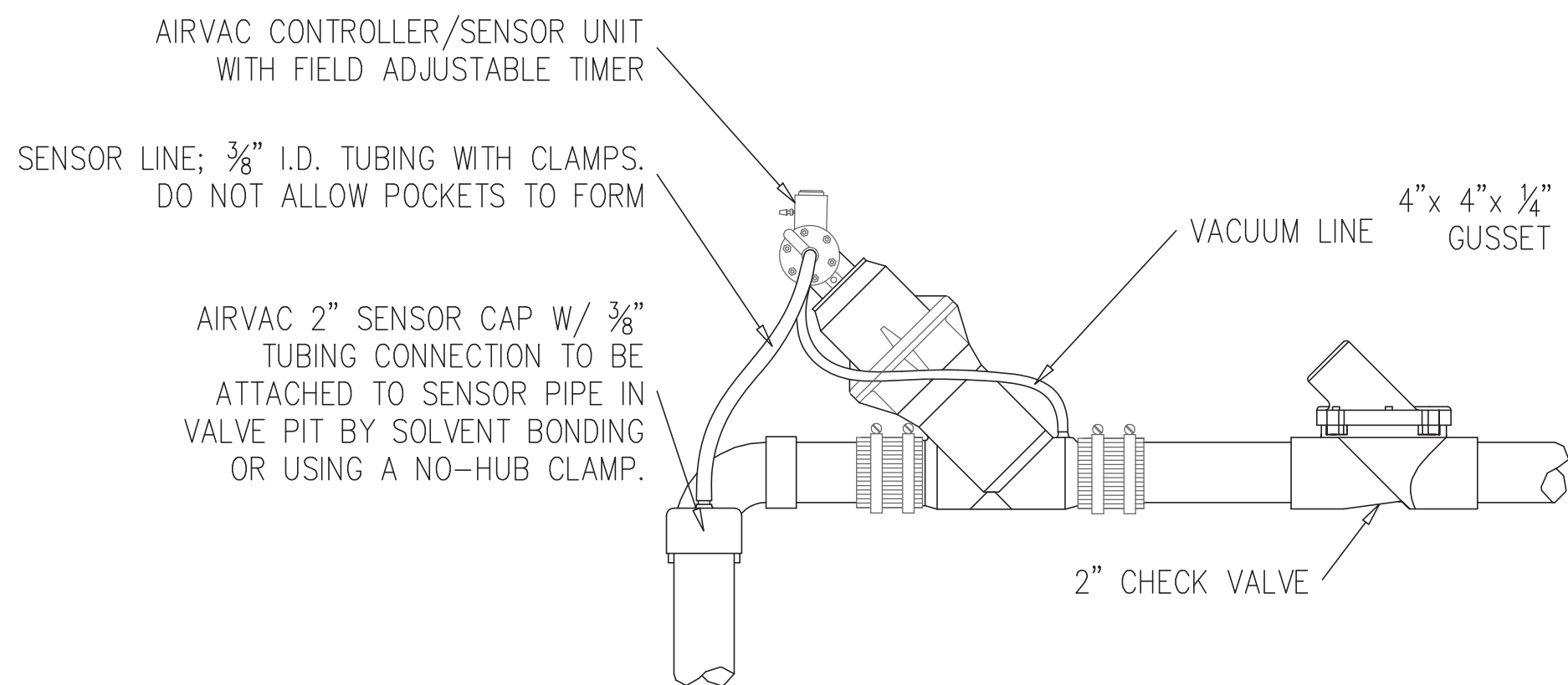
SUMP VALVE DETAIL - PLAN VIEW

SCALE: N.T.S.



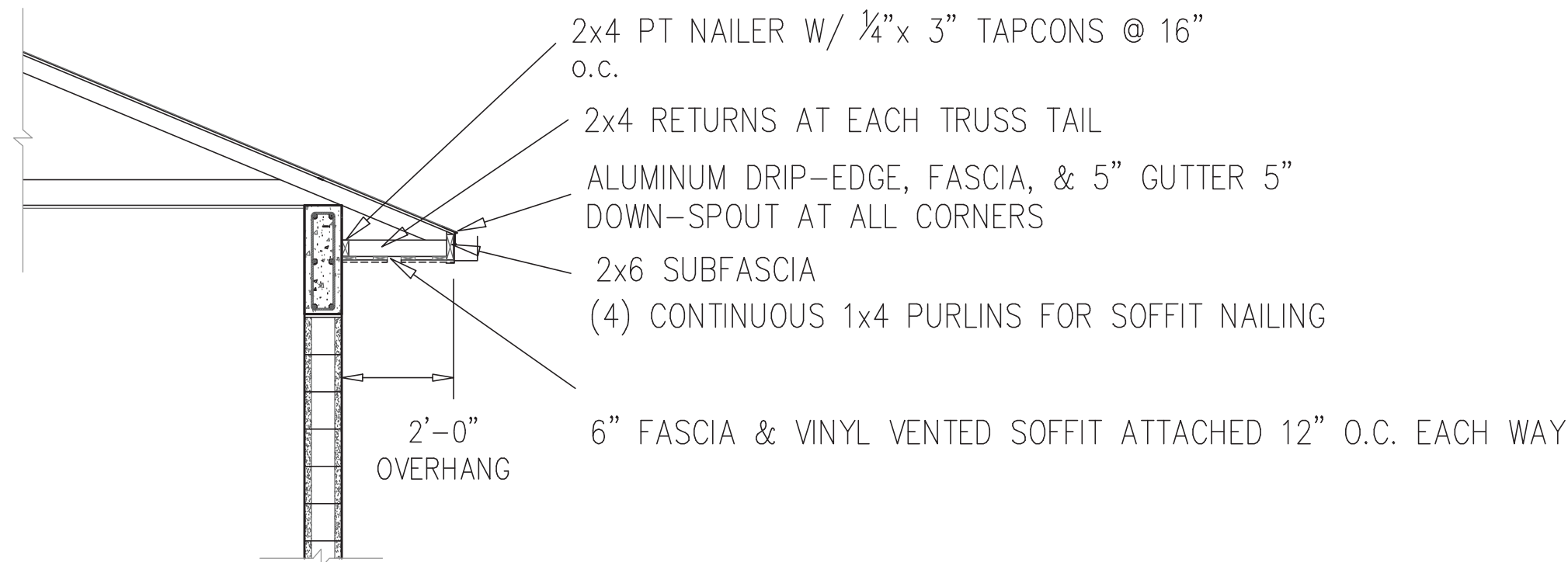
LINK-SEAL DETAIL (D.I.P.S)

SCALE: N.T.S.



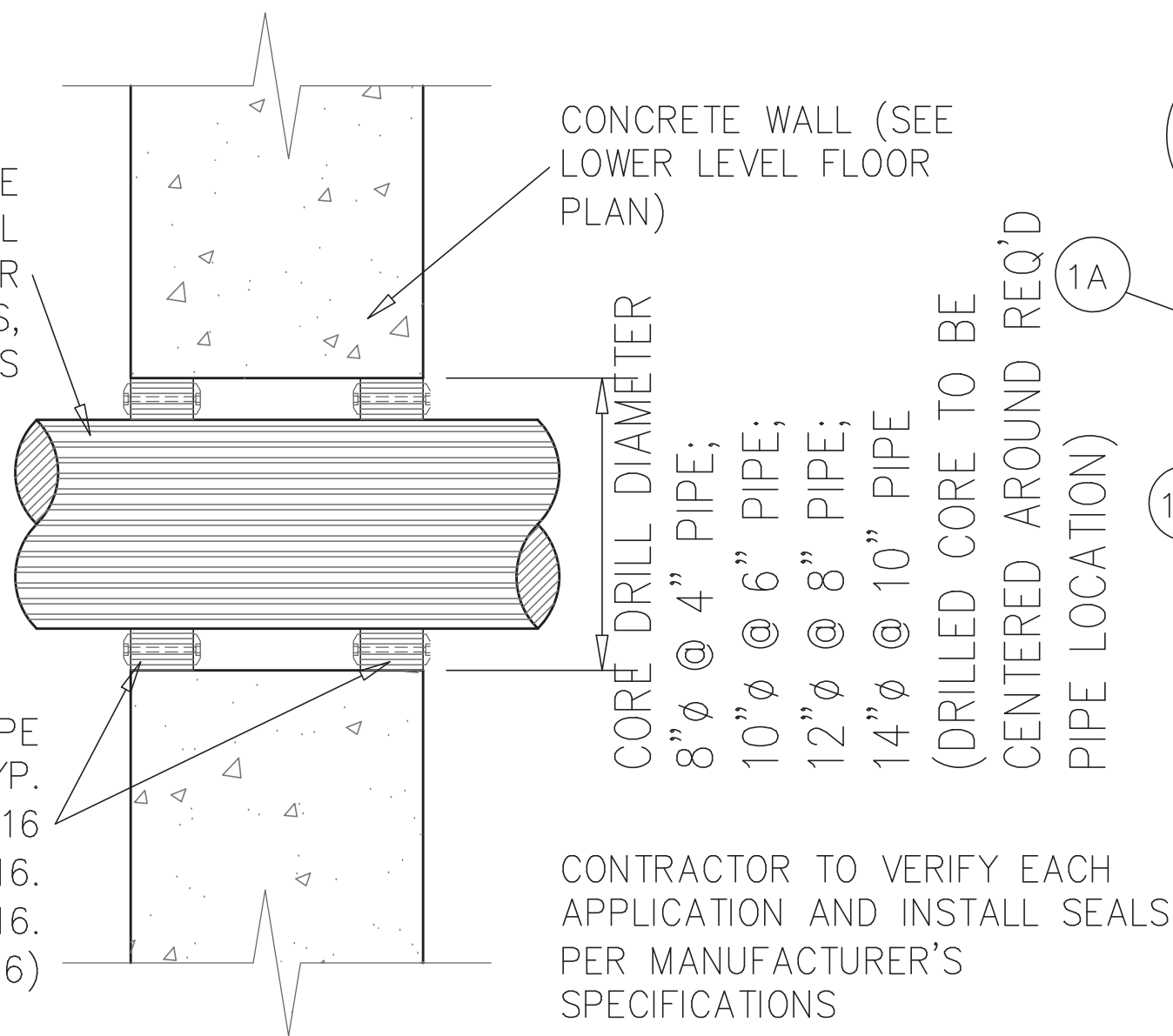
SUMP VALVE DETAIL - SIDE VIEW

SCALE: N.T.S.



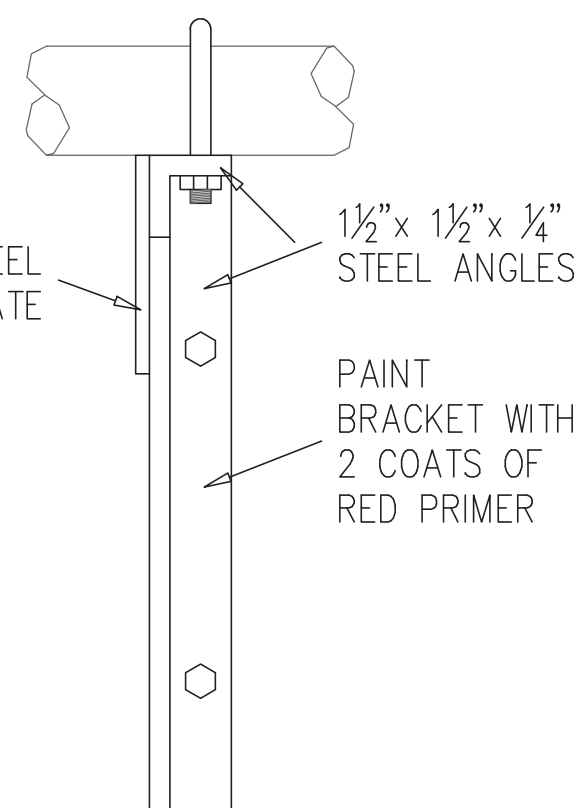
ROOF OVER HANG DETAIL

SCALE : 3/8"=1'-0"



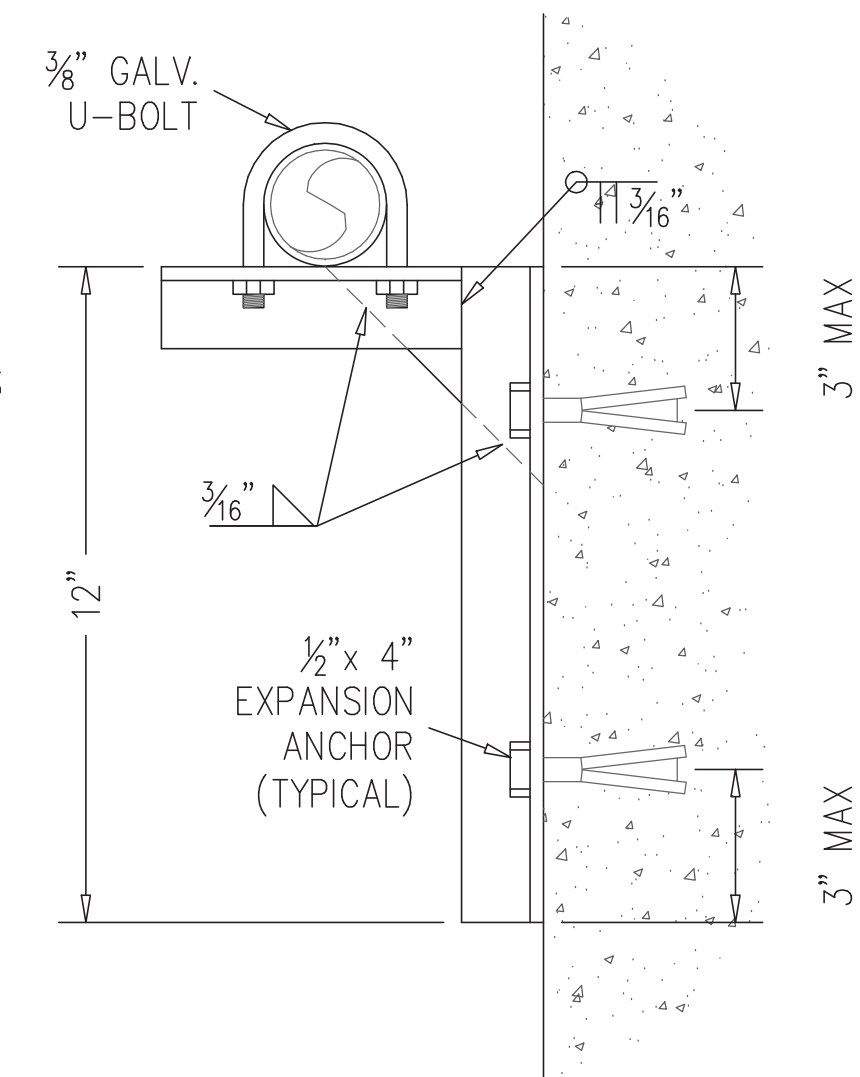
TYPICAL VACUUM LINE
GAUGE PIPING DETAIL

SCALE: N.T.S.



SUMP PIPE SUPPORT DETAIL

SCALE: N.T.S.



NOTE: UNI-STRUT, CLAMPS, BOLTS,
AND NUTS PROVIDED BY CONTRACTOR;

CLAMP SUPPORTS AT
4'-0" O.C. MAX.
PVC VACUUM
HEADER (DIAMETER VARIES)

CONDUITS- RUN PARALLEL
WITH HORIZONTAL SECTIONS
OF VACUUM HEADER

(2) LINK-SEAL MODULAR SEALS AT EACH PIPE
PENETRATION THROUGH CONCRETE WALL; TYP.
(AT 4" PIPE USE, 5LS 410 S 316
AT 6" PIPE, USE 7-LS-400-S-316.
AT 8" PIPE, USE 9-LS-400-S-316.
AT 10" PIPE, USE 10-LS-400-S-316)

DUCTILE IRON PIPE
(SEE LOWER LEVEL
FLOOR PLAN FOR
SIZES, LOCATIONS,
AND REQ'D HEIGHTS

CONCRETE WALL (SEE
LOWER LEVEL FLOOR
PLAN)

CORE DRILL DIAMETER
8" @ 4" PIPE;
10" @ 6" PIPE;
12" @ 8" PIPE;
14" @ 10" PIPE
(DRILLED CORE TO BE
CENTERED AROUND REQ'D
PIPE LOCATION)

CONTRACTOR TO VERIFY EACH
APPLICATION AND INSTALL SEALS
PER MANUFACTURER'S
SPECIFICATIONS

NOTE: GAUGES TO BE INSTALLED 60" FROM FROM PIT FLOOR

NOTE:
CONTRACTOR TO DRILL/TAP INCOMING
VACUUM LINES FOR 1/4" PIPE THREADS.

- 1 0-30" HG VACUUM GAUGE MOUNTED
TO TANK (TYP. OF 4)
- 1A MERIT 1/2" S.S. BALL VALVE
- 1B 1/2" MPT X 3/8" BARB ADAPTER
- 1C 3/8" DIA. FLEX TUBING X 20'
- 1D 1/2" X 1" S.S. NIPPLE
- 1E 1/2" 90° S.S. ELBOW
- 1F 1/4" MPT X 3/8" BARB ADAPTER

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DENNIS J. CROYLE P.E. #82287
STATE OF FLORIDA

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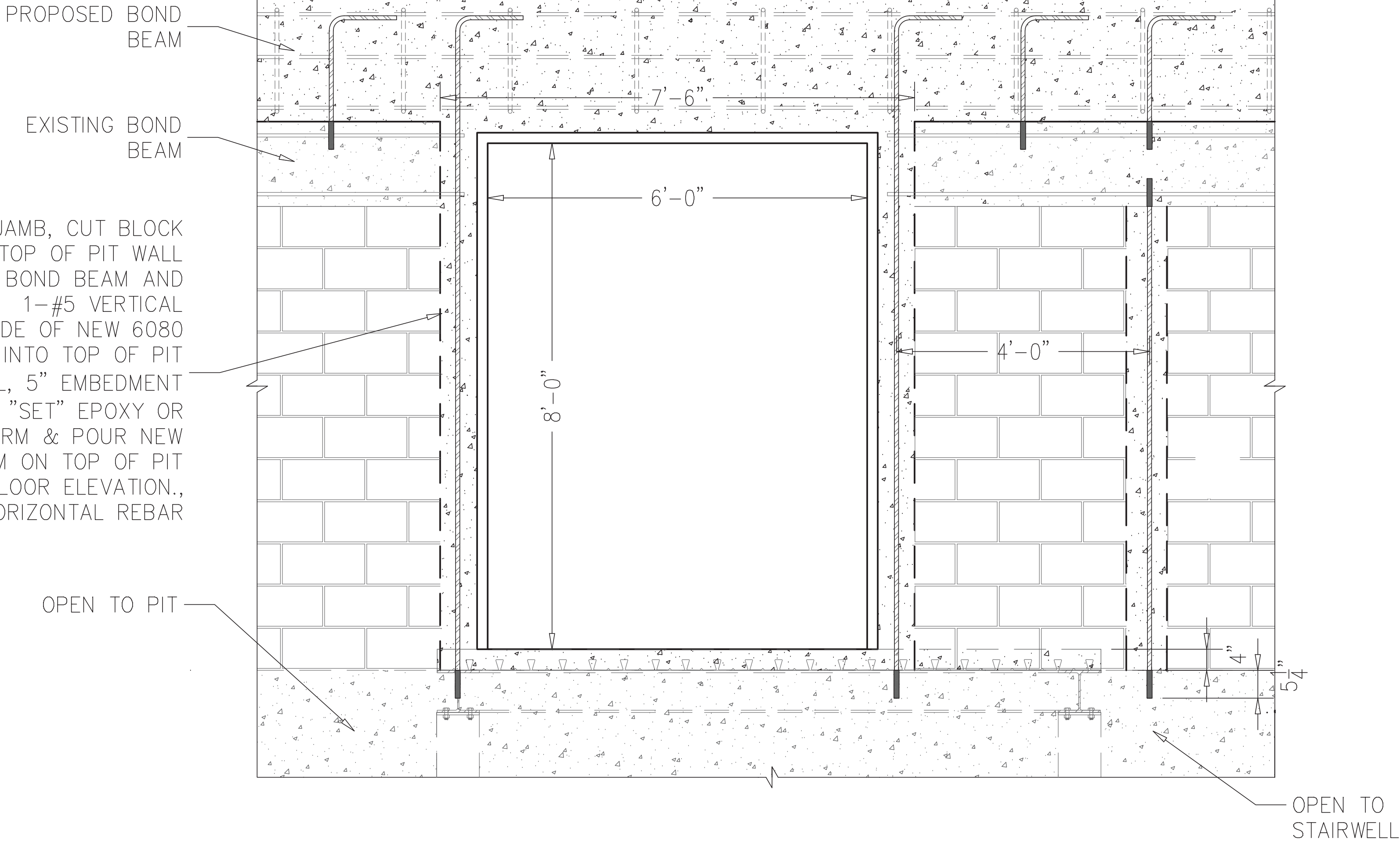
**ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.**

DETAILS

SCALE : 1/2"=1'-0"
0 2 10 20

PERMIT SET
SHEET: S19 OF S20
GWE NO. 6524.10

REMOVE DOOR & JAMB, CUT BLOCK WALL FROM TOP OF PIT WALL THROUGH EXISTING BOND BEAM AND DRILL & EPOXY 1-#5 VERTICAL REBAR EACH SIDE OF NEW 6080 DOOR OPENING INTO TOP OF PIT CONCRETE WALL, 5" EMBEDMENT USING SIMPSON "SET" EPOXY OR EQUAL. FORM & POUR NEW THRESHOLD BEAM ON TOP OF PIT WALL TO FINISH FLOOR ELEVATION., ADD 1-#5 HORIZONTAL REBAR

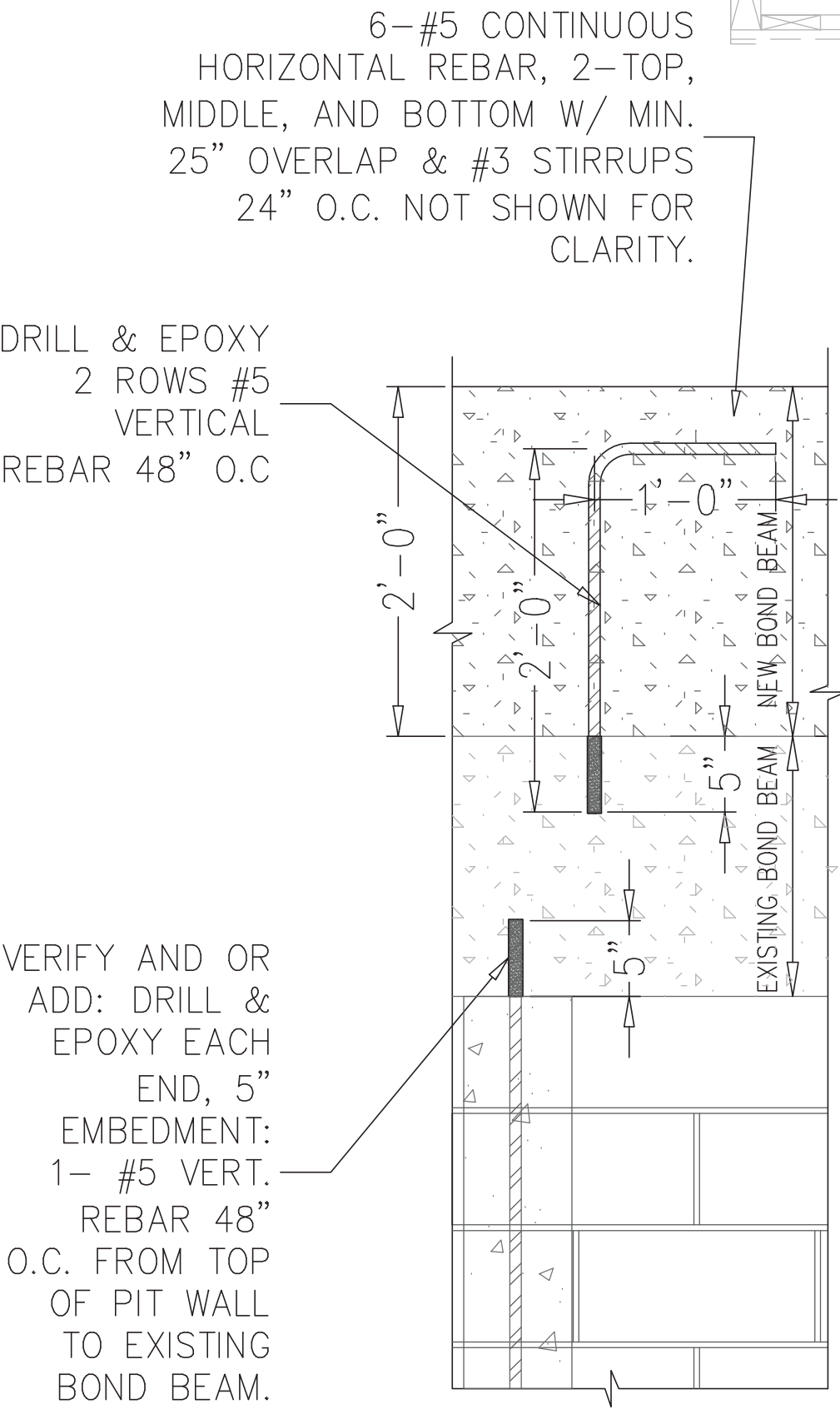


CMU WALL REINFORCEMENT DETAILS
SCALE : 3/4"=1'-0"

DRILL & EPOXY 2 ROWS #5 VERTICAL REBAR 48" O.C OR LESS STAGGERED W/ STANDARD BEND AT TOP INTO TOP OF EXISTING CMU WALL BOND BEAM. USE SIMPSON "SET" EPOXY OR EQUAL WITH 5" MIN. EMBEDMENT. WITH 6-#5 CONTINUOUS HORIZONTAL REBAR, 2-TOP, MIDDLE, AND BOTTOM W/ MIN. 25" OVERLAP & #3 STIRRUPS 24" O.C.

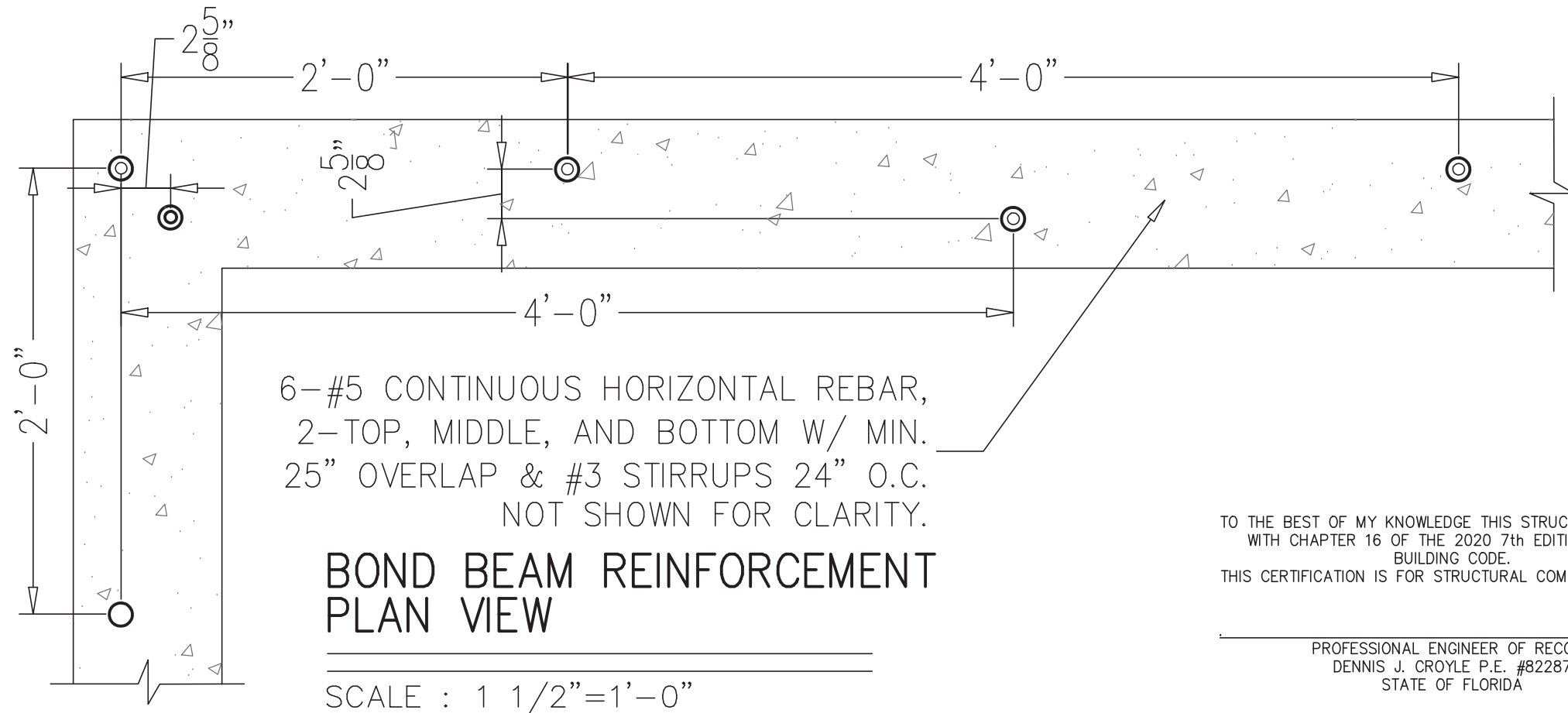
BOND BEAM REINFORCEMENT
DETAIL & SECTION

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



DETAIL
SCALE: N.T.S.

SECTION
SCALE: N.T.S.



BOND BEAM REINFORCEMENT
PLAN VIEW

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

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ENGLEWOOD WATER DISTRICT V-1
ALTERATION & REHABILITATION
559 ALTA VISTA AVE, ENGLEWOOD, FL.

DETAILS

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

PERMIT SET
SHEET: S20 OF S20
GWE NO. 6524.10