

CONTRACT DOCUMENTS

For the construction of the

GREEN MEADOWS WATER TREATMENT PLANT PIPING IMPROVEMENTS



INDEX OF DRAWINGS

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Prepared for the
LEE COUNTY UTILITIES
FORT MYERS, FLORIDA

VOLUME 2 OF 2
DRAWINGS

For information regarding
this project, contact:

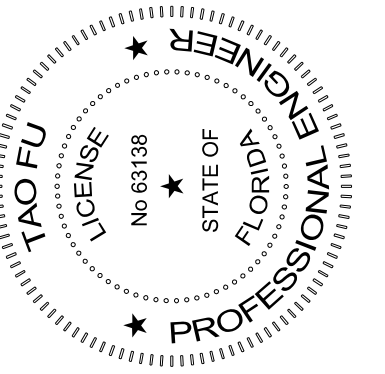
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JACOBS®

Project No. D3335202

SEPTEMBER 2021

BID DOCUMENTS



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DESIGN CRITERIA

1.

APPLICABLE CODE: FLORIDA BUILDING CODE, 7TH EDITION (2020), AS AMENDED BY APPLICABLE LOCAL AGENCIES.

2.

REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.

3.

ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE.

4.

DEAD LOADS:
SELF WEIGHT

5.

LIVE LOADS:
WALKWAYS AND PLATFORMS
SLABS ON GRADE

= 100 PSF

= 300 PSF

6.

SNOW LOADS:
GROUND SNOW LOAD, Pg

= 0 PSF

7.

WIND LOADS:
BASIC WIND SPEED, Vult
NOMINAL WIND SPEED, Vasd
RISK CATEGORY
EXPOSURE CATEGORY
ENCLOSURE CLASSIFICATION
INTERNAL PRESSURE COEFFICIENT, GCpI

= 175 MPH

= 136 MPH

= IV

= C

= NOT APPLICABLE

= NOT APPLICABLE

GENERAL INFORMATION

1.

FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).

2.

DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.

3.

VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.

4.

FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.

5.

DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.

6.

VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

FORMWORK, SHORING, AND BRACING

1.

STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.

C

C

1.

CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH ACI 301-10:

A.

CONCRETE:

a.

MINIMUM COMPRESSIVE STRENGTH fc 4,000 PSI AT 28 DAYS.

b.

W/CM RATIO SHALL NOT EXCEED 0.45.

c.

SLUMP SHALL BE 4± 1 INCH.

d.

EXPOSURE CLASS AND CATEGORY F1S0W0C0.

B.

PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE I OR II.

C.

AGGREGATE SHALL COMPLY WITH ASTM C33, CLASS DESIGNATION 4M AND NON-REACTIVE AS DETERMINED USING ONE OF THE FOLLOWING:

-

ASTM C1260

-

ASTM C1293

-

ASTM 1567

D.

SUBMIT DOCUMENTATION OF AVERAGE STRENGTH FOR EACH PROPOSED MIX DESIGN IN ACCORDANCE WITH ACI 301.

E.

STRENGTH TESTS:

a.

ONE SPECIMEN AT 7 DAYS FOR INFORMATION.

b.

TWO 6 INCH DIAMETER OR THREE 4 INCH DIAMETER TEST SPECIMENS AT 28 DAYS FOR ACCEPTANCE.

c.

PROVIDE MINIMUM OF ONE SPARE TEST SPECIMEN PER SAMPLE.

F.

PROVIDE TROWEL FINISH UNLESS OTHERWISE NOTED. DO NOT SPRINKLE WATER OR CEMENT ON SURFACE WHEN FINISHING.

G.

APPLY ASTM C309 TYPE 1 OR 1-D CURING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. SUPER DIAMOND CLEAR VOX BY EUCLID CHEMICAL COMPANY.

H.

CHAMFER EXPOSED EDGES OF CONCRETE 3/4 INCH UNLESS OTHERWISE NOTED.

I.

CONCRETE REPAIR: PATCH SURFACE DEFECTS THAT INCLUDE HONEYCOMBING, ROCK POCKETS, INDENTATIONS AND SURFACE VOIDS WITH SIKATOP 123 PLUS BY SIKA CORP.

2.

FINISH SLAB: BULL FLOAT WITH WOOD FLOAT, WOOD TROWEL, AND LIGHTLY TROWEL WITH STEEL TROWEL. FINISH WITH BROOM TO OBTAIN NONSKID SURFACE.

D

WELDING

1.

WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS):

D1.1, STRUCTURAL WELDING CODE

STEEL

D1.2, STRUCTURAL WELDING CODE

ALUMINUM

D1.3, STRUCTURAL WELDING CODE

SHEET STEEL

D1.4, STRUCTURAL WELDING CODE

REINFORCING STEEL

D1.6, STRUCTURAL WELDING CODE

STAINLESS STEEL

2.

REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION 5.26.

3.

USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.

4.

BUTT JOINT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

STRUCTURAL STEEL AND METAL FABRICATIONS

1.

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

W-SHAPES

A992

MISCELLANEOUS SHAPES INCLUDING

ANGLES, CHANNELS, PLATES, ETC.

A36

A500, GRADE B

A53, GRADE B

A276

HOLLOW STRUCTURAL SECTIONS (HSS)

STEEL PIPE

STAINLESS STEEL SHAPES

2.

ALUMINUM SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

STRUCTURAL SHAPES

B308

PLATES

B209

3.

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.

4.

FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ASTM STANDARDS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:

UNLESS SHOWN OTHERWISE

A325-N

ANCHOR BOLTS (AB)

STAINLESS STEEL

F593, AISI TYPE 316, CONDITION CW

STEEL OR GALVANIZED STEEL

F1554, GR 36 / A153

MACHINE BOLTS (MB)

STEEL

A307

STAINLESS STEEL

F593, AISI TYPE 316, CONDITION CW

GALVANIZED STEEL

A307 / A153

ALUMINUM

F468, ALLOY 2024-T4

5.

ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.

6.

NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

CONCRETE REINFORCING

1.

REINFORCING STEEL:

ASTM A615, GRADE 60

2.

FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

3.

CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE:

WHEN CAST AGAINST EARTH:

3"

UNLESS OTHERWISE NOTED:

2"

4.

90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.

5.

REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE DESIGN STRENGTH = 4,000 PSI MIN AT 28 DAYS

GRADE 60 REINFORCING STEEL

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LENGTH									
SPACING = 3"	TOP BAR ¹	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"
	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"
SPACING = 4"	TOP BAR ¹	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"
SPACING ≥ 6"	TOP BAR ¹	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"
EMBEDMENT LENGTH									
SPACING = 3"	TOP BAR ¹	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"
SPACING = 4"	TOP BAR ¹	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"
SPACING ≥ 6"	TOP BAR ¹	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"

1.

TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

DEFERRED SUBMITTALS

1.

DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK OR ARE REQUIRED TO BE SUBMITTED FOR REVIEW ONLY BY THE ENGINEER.

2.

WHERE DEFERRED SUBMITTALS INCLUDE ADDITIONAL MATERIALS, INSTALLATION, ANCHORAGE, OR CERTIFICATION OF COMPONENTS THAT REQUIRE SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATION TO MEET CODE REQUIREMENTS, THE DEFERRED SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE ADDED TO THE APPROPRIATE TABLES IN THE PROJECT'S STATEMENT OF SPECIAL INSPECTIONS PLAN IF THEY ARE NOT ALREADY IDENTIFIED.

3.

THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS PER FBC SECTION 107.3.4.1 OF 2020 FBC THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, THE CONTRACTOR SHALL SUBMIT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S COMMENT FORM, ALONG WITH THE COMPLETED, FINAL SUBMITTAL SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE PERMITTING AGENCY AND APPROVED PRIOR TO INSTALLATION OF THESE ITEMS.

SPECIFICATION SECTION	CODE REQUIRED DEFERRED SUBMITTALS FOR REVIEW BY PERMITTING AGENCY
01 88 15	ANCHORAGE AND BRACING
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

643 SW 4TH AVE, SUITE 400
GAINESVILLE, FLORIDA 32601
EB2822

DAVID R. EVERSON PE 80180

GREEN MEADOWS WTP
PIPING IMPROVEMENTS
LEE COUNTY
FOR MYERS, FL 33907

JACOBS

GENERAL
STRUCTURAL NOTES

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE SEPTEMBER 2021

PROJ D3335202

DWG G-01

SHEET 2 of 8

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BID DOCUMENT

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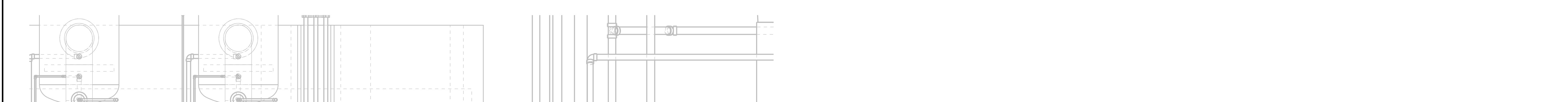
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PLOT DATE: 9/3/2021

PLOT TIME: 8:57:21 AM



16-FT LONG 20" DR 13.5 DIPS HDPE PIPE

PTFE EXPANSION JOINT

20" V-518

20" ROP (HDPE)

20" V-518

20" DIA FLANGE ADAPTER (12" LENGTH)

ELECTROFUSION FLEX RESTRAINTS, LOCATED IN THE CENTER OF THE WALL

4

Technical drawing of a trench layout. The drawing shows a horizontal trench with various components and callouts. On the left, there is a callout '9' pointing to a component. In the center, there is a callout '20-D-301' pointing to a component. On the right, there is a callout '4' pointing to a component, and a callout '6 TYP' pointing to a component. Above the trench, there is a callout 'BACK UP RING CONNECT TO EXISTING' pointing to a component. Below the trench, there is a callout 'ELECTROFUSION FLEX RESTRAINT' pointing to a component, and a callout '20" ROP (HDPE)' pointing to a component. The drawing also includes a north arrow pointing upwards.

24" STATIC MIXER WITH
SULFURIC ACID
INJECTION QUILL

24" FCA
(RESTRAINED)

4027-977

N
PLAN
3/8"=1'-0"

1 **DETAIL**
1/2"=1'-0"

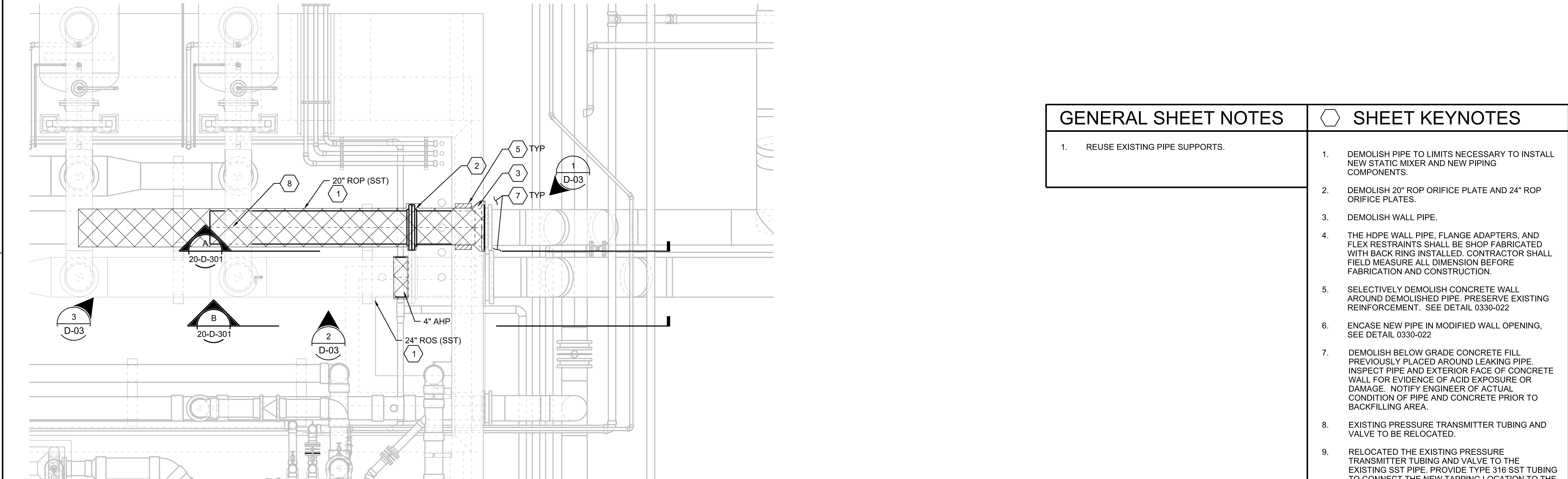
24" STATIC MIXER WITH SULFURIC ACID INJECTION QUILL

24" FCA (RESTRAINED)

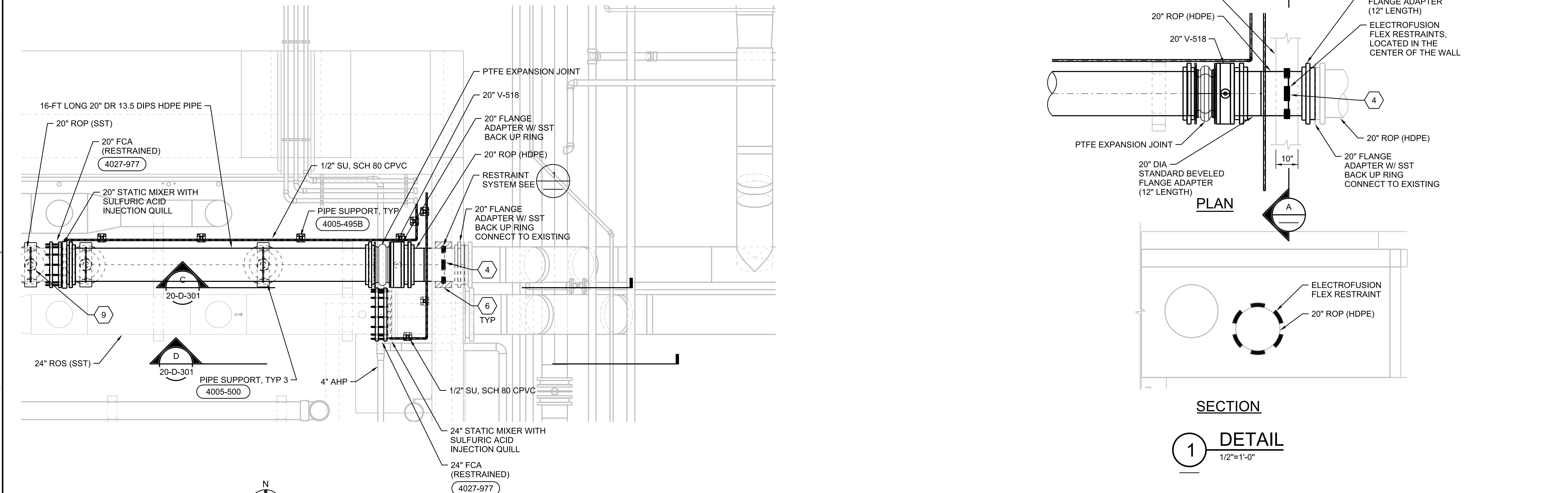
4027-977

N
PLAN
3/8"=1'-0"

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

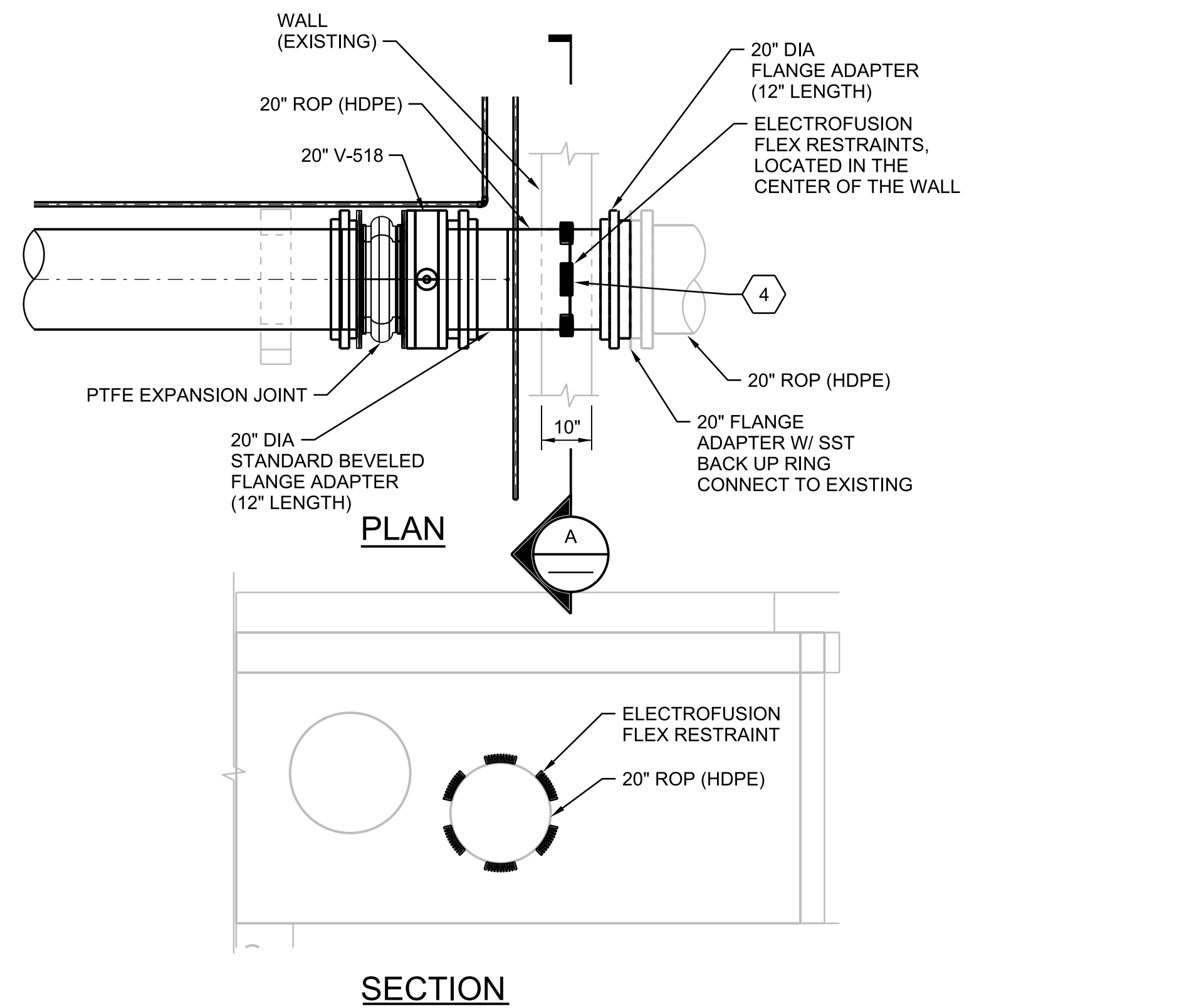


N
DEMOLITION PLAN
3/8"=1'-0"







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



GENERAL SHEET NOTES

- 
1. REUSE EXISTING PIPE SUPPORTS.

SHEET KEYNOTES

- A** **DEMOLITION SECTION**
3/8"=1'-0"
D-01
-
1. DEMOLISH PIPE TO LIMITS NECESSARY TO INSTALL NEW STATIC MIXER AND NEW PIPING COMPONENTS.
 2. DEMOLISH 20" ROP ORIFICE PLATE.
 3. DEMOLISH WALL PIPE.
 4. THE HDPE WALL PIPE, FLANGE ADAPTERS, AND FLEX RESTRAINTS SHALL BE SHOP FABRICATED WITH BACK RING INSTALLED. CONTRACTOR SHALL FIELD MEASURE ALL DIMENSION BEFORE FABRICATION AND CONSTRUCTION.
 5. DEMOLISH CONCRETE FILL, SEE KEYNOTE ON DEMOLITION PLAN.
 6. SELECTIVELY DEMOLISH WALL AROUND PIPE, SEE DEMOLITION PLAN.
 7. DEMOLISH BELOW GRADE CONCRETE FILL PREVIOUSLY PLACED AROUND LEAKING PIPE. INSPECT PIPE AND EXTERIOR FACE OF CONCRETE WALL FOR EVIDENCE OF ACID EXPOSURE OR DAMAGE. NOTIFY ENGINEER OF ACTUAL CONDITION OF PIPE AND CONCRETE PRIOR TO BACK FILLING AREA.
 8. CHIP THE EXISTING CONCRETE PIPE SADDLES AS NEEDED TO ACCOMMODATE THE LARGER OD OF THE NEW 20" HDPE PIPE.

643 SW 4TH AVE, SUITE 400
GAINESVILLE, FLORIDA 32601
EB2822

TAO FU, PE #63138

GREEN MEADOWS WTP

PIPING IMPROVEMENTS

LEE COUNTY

Jacobs.

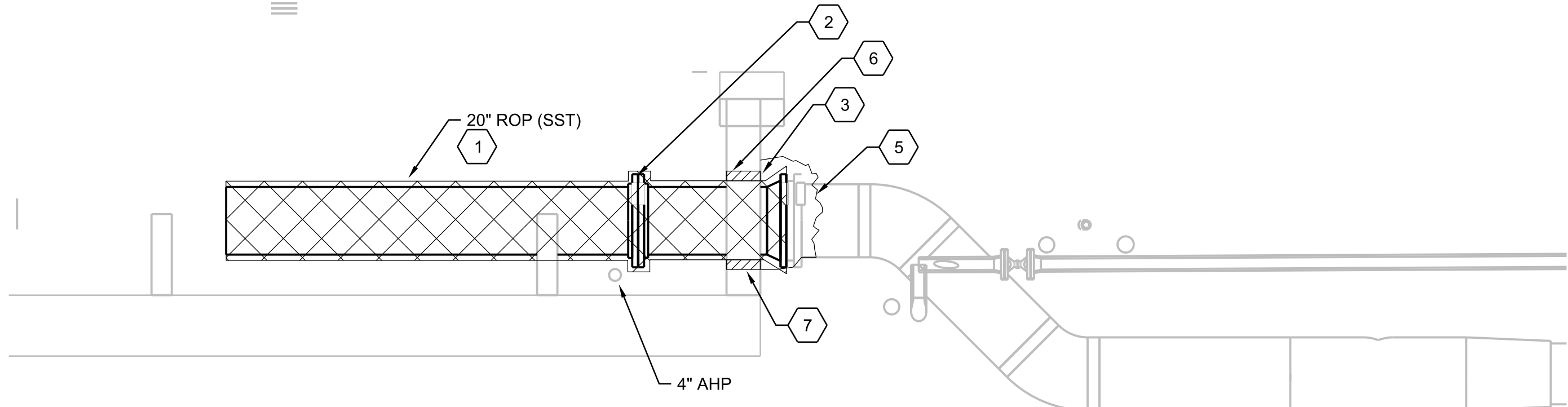
PROCESS MECHANICAL

PIPING SECTIONS

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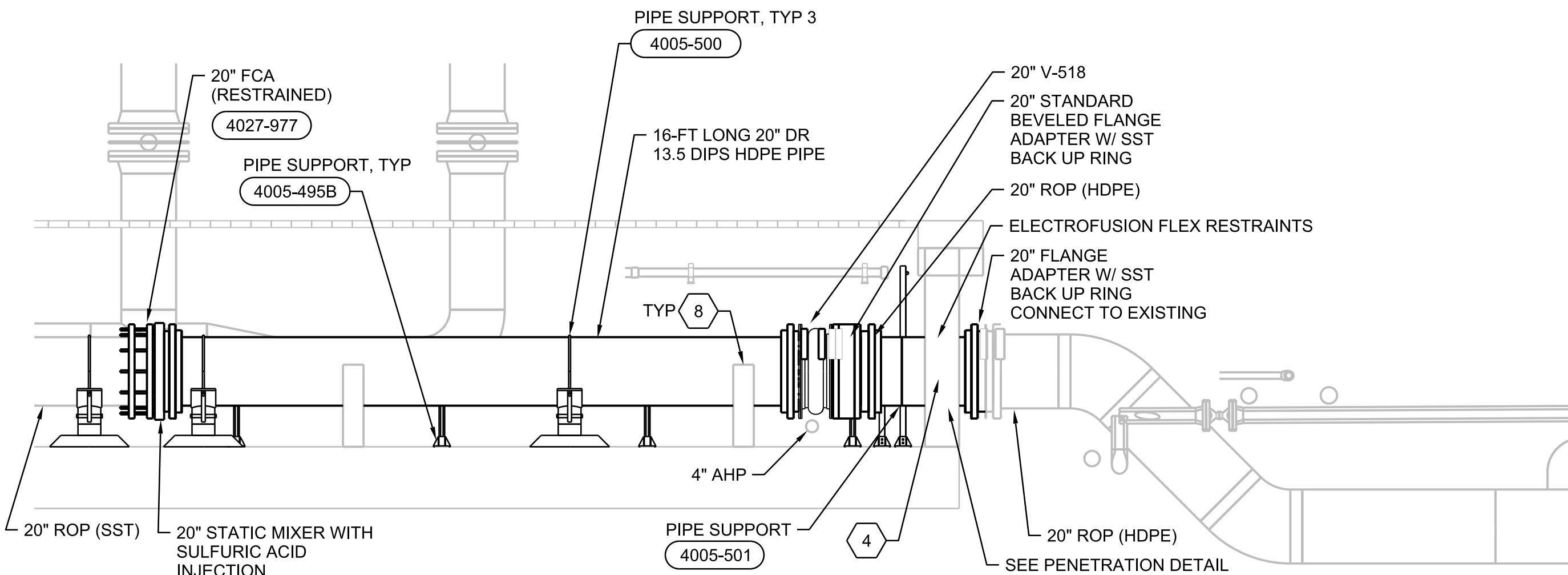
AS NOTED	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	SEPTEMBER
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SHEET	of

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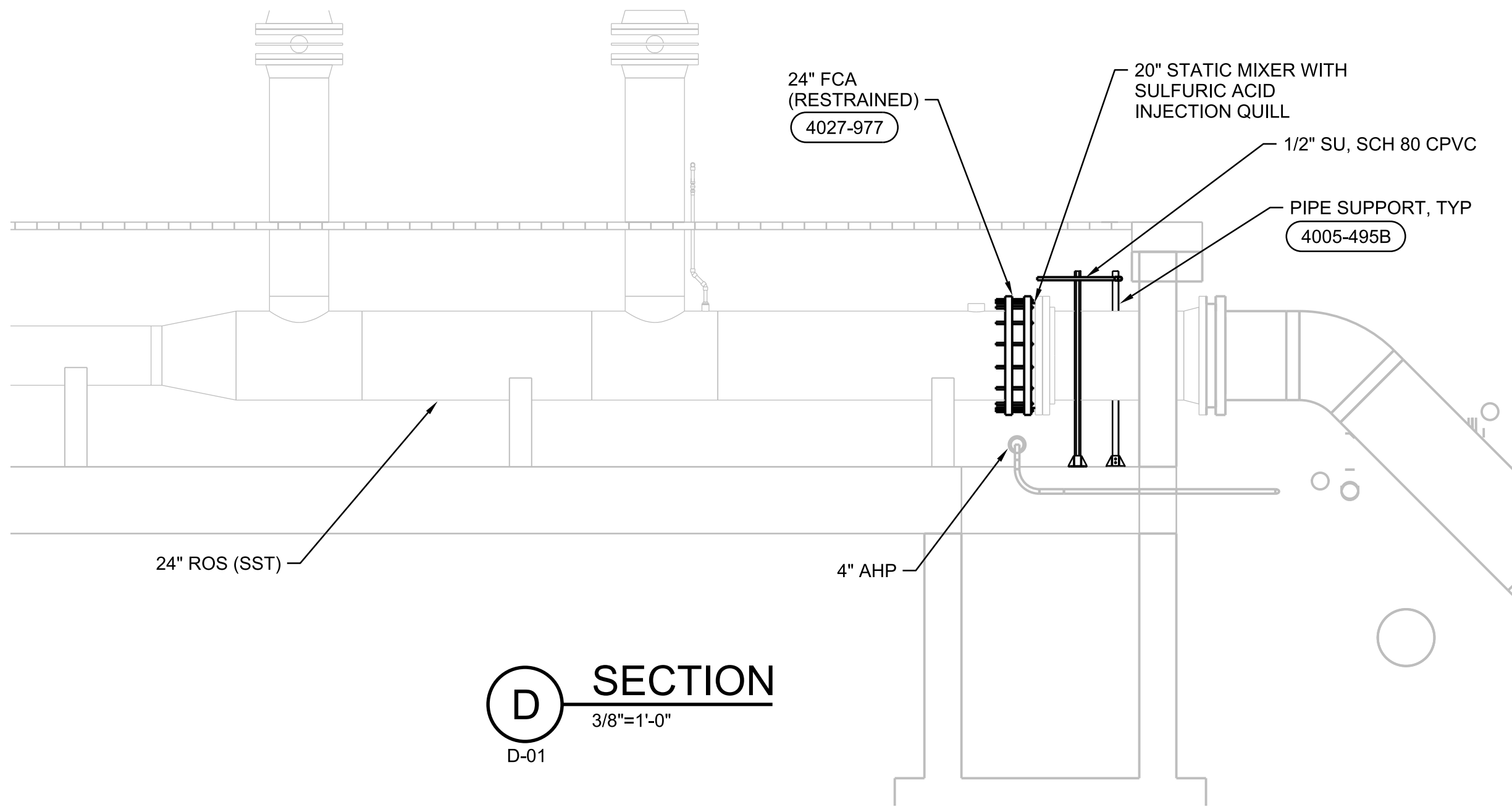


A DEMOLITION SECTION
3/8"=1'-0"
D-01

B DEMOLITION SECTION
3/8"=1'-0"
D-01



C SECTION
3/8"=1'-0"
D-01



D SECTION
3/8"=1'-0"
D-01

