

# EMERALD COAST UTILITIES AUTHORITY PENSACOLA, FLORIDA

## CENTRAL WATER RECLAMATION FACILITY

JUNE 2014

# CWRF ODOR CONTROL PIPING

**CONSULTING ENGINEERS:**  
**ARCADIS, INC.**  
**PENSACOLA, FLORIDA**

### BOARD MEMBERS

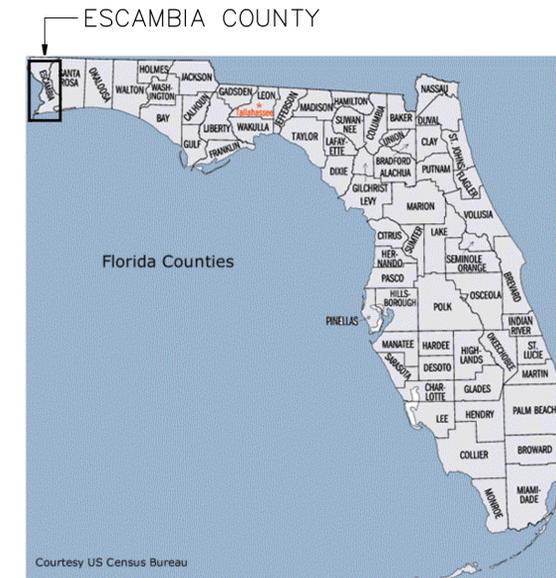
VICKI CAMPBELL, VICE CHAIRMAN	DISTRICT NO. 1
LOIS BENSON	DISTRICT NO. 2
ELVIN McCORVEY	DISTRICT NO. 3
DALE PERKINS	DISTRICT NO. 4
LARRY WALKER, CHAIRMAN	DISTRICT NO. 5

### EXECUTIVE DIRECTOR

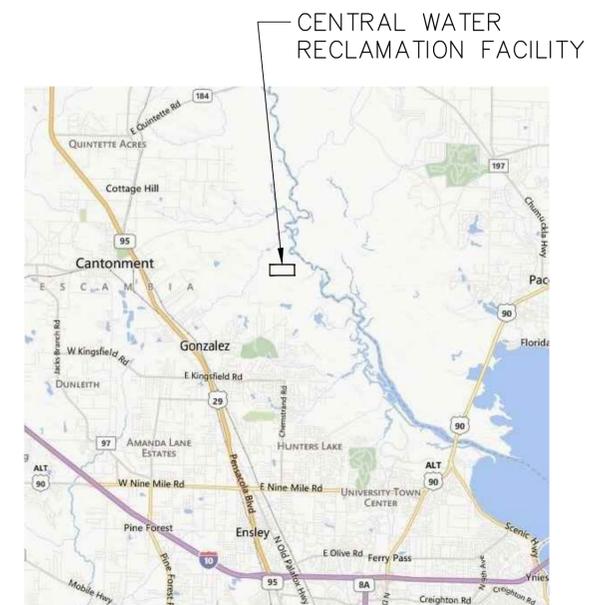
STEPHEN E. SORRELL, P.E.

### DEPUTY EXECUTIVE DIRECTOR

EDWARD (NED) McMATH, P.E.



VICINITY MAP



LOCATION MAP

### DRAWING INDEX

SHEET NO.	DESCRIPTION
	<b>GENERAL</b>
G1	COVER SHEET
G2	LEGEND, ABBREVIATIONS AND GENERAL NOTES
	<b>MECHANICAL</b>
M1	ODOR CONTROL AIR PIPING LAYOUT
M2	ENLARGED PLAN AND SECTIONS
M3	DETAILS
M4	ENLARGED PLAN AND SECTIONS



CONSULTANTS

SEALS

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

ESCAMBIA COUNTY, FL  
EMERALD COAST  
UTILITIES AUTHORITY  
  
CENTRAL WATER  
RECLAMATION FACILITY  
ODOR CONTROL PIPING

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS U.S., INC. 2012  
  
DATE: JUNE 2014  
PROJECT NO.: 01697056.0001  
FILE NAME: G1  
DESIGNED BY: J. GAULT  
DRAWN BY: M. CALZON  
CHECKED BY: P. McMASTER

SHEET TITLE

COVER SHEET

SCALE: NONE

G-1  
SHEET 1 OF 6

User: GAULT, Spec: PIRNIE, STANDARD File: \ACAD\PROJ\0000-ECUA\SHEETS\G1.DWG Scale: 1:1 SavedDate: 5/20/2014 Time: 08:07 Plot Date: Gault, Jason: 6/12/2014, 13:21 : Layout: G1





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NO.	DATE	ISSUED FOR	BY
1	09/25/14	REVISED BLOWER	PWM
		LOCATION	

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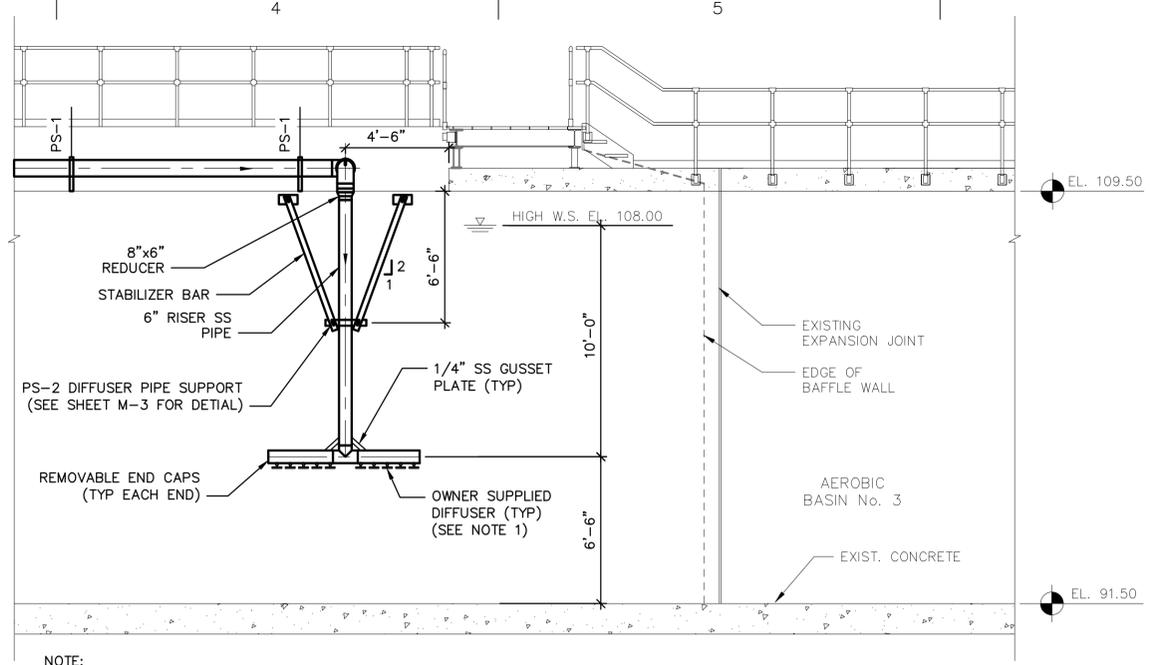
DATE: JUNE 2014  
 PROJECT NO.: 01697056.0001  
 FILE NAME: M-2 (REV 06-17-2014)  
 DESIGNED BY: J. GAULT  
 DRAWN BY: M. CALZON  
 CHECKED BY: P. McMASTER

SHEET TITLE

ENLARGED PLAN  
 AND SECTIONS

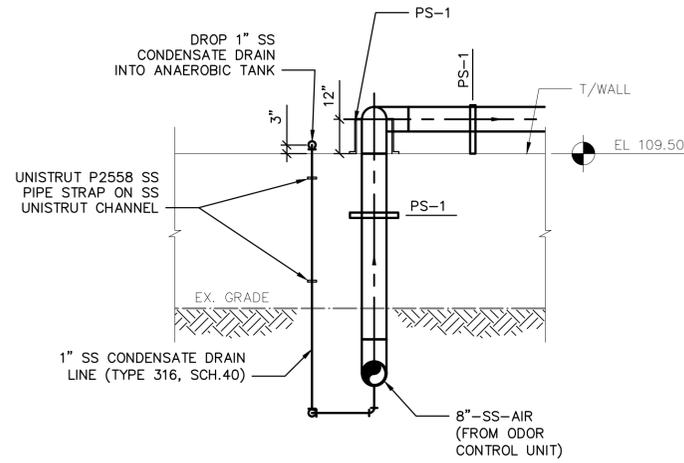
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M-2  
 SHEET 4 OF 6

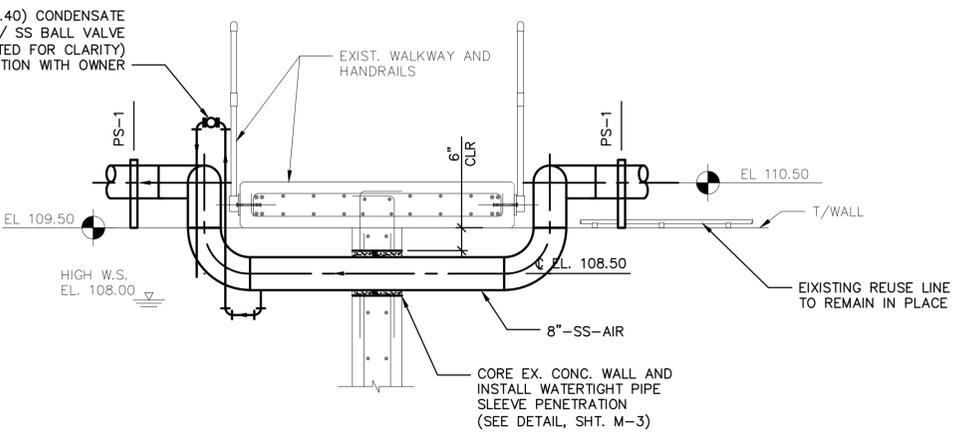


NOTE:  
 1. CONTRACTOR SHALL PROVIDE DIFFUSER ASSEMBLY AND INSTALL OWNER FURNISHED DIFFUSERS (PERMACAP 5 - 40 EA. PER DIFFUSER ASSEMBLY)

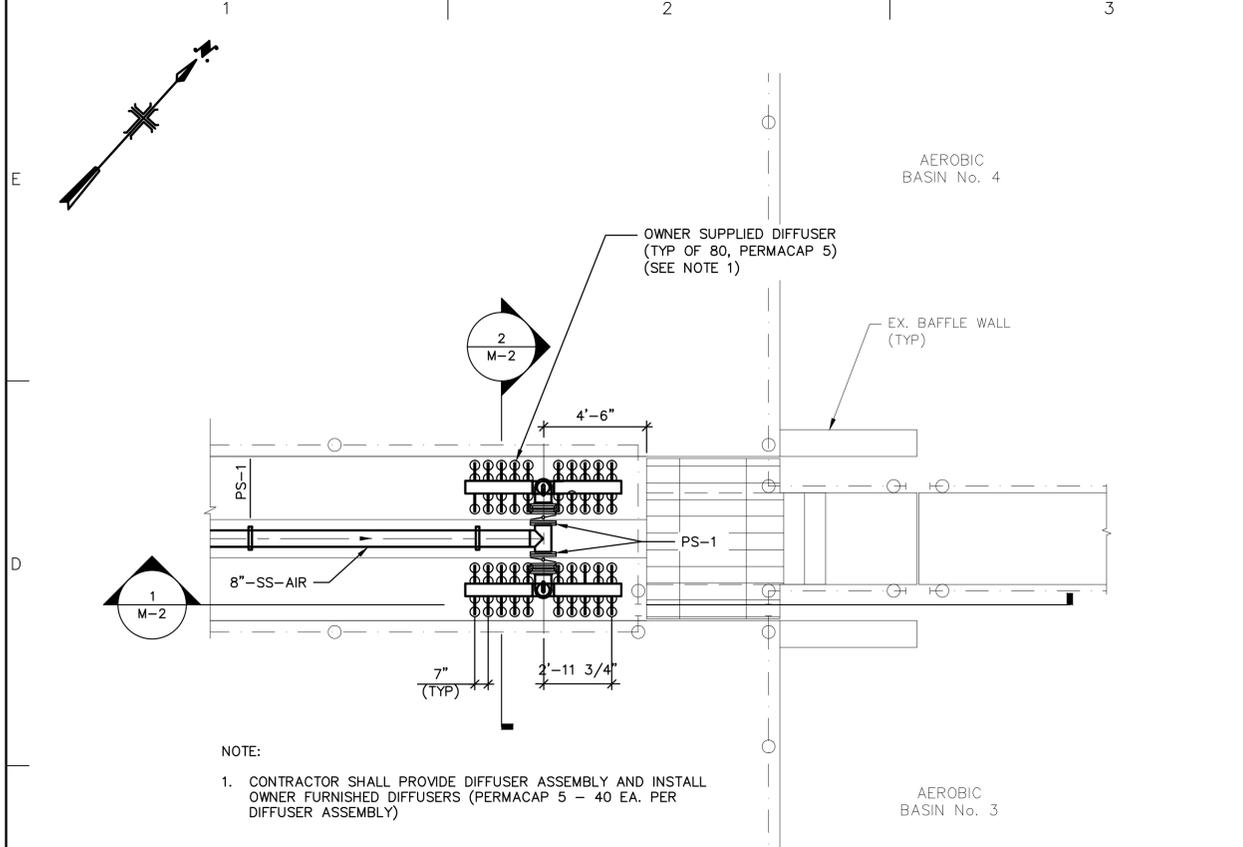
**1 SECTION**  
 SCALE: 1/4" = 1'-0"



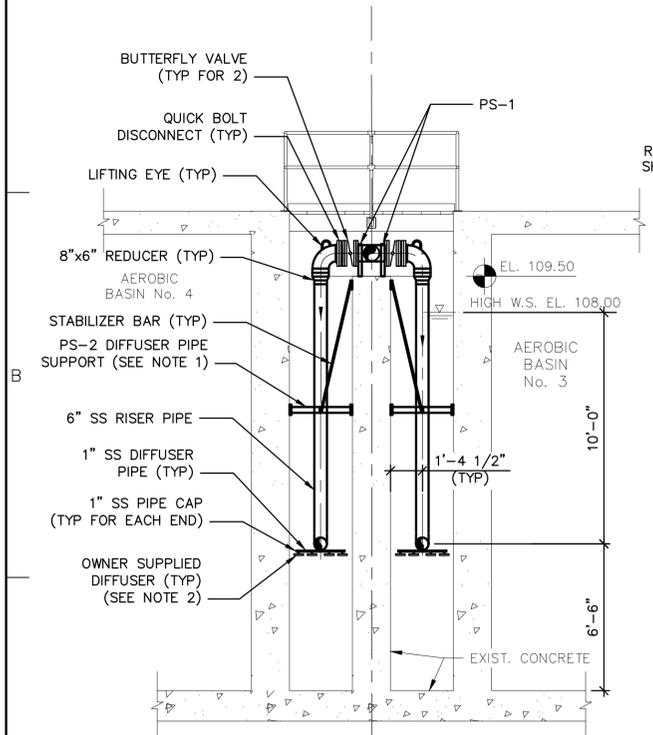
**4 SECTION**  
 SCALE: 3/8" = 1'-0"



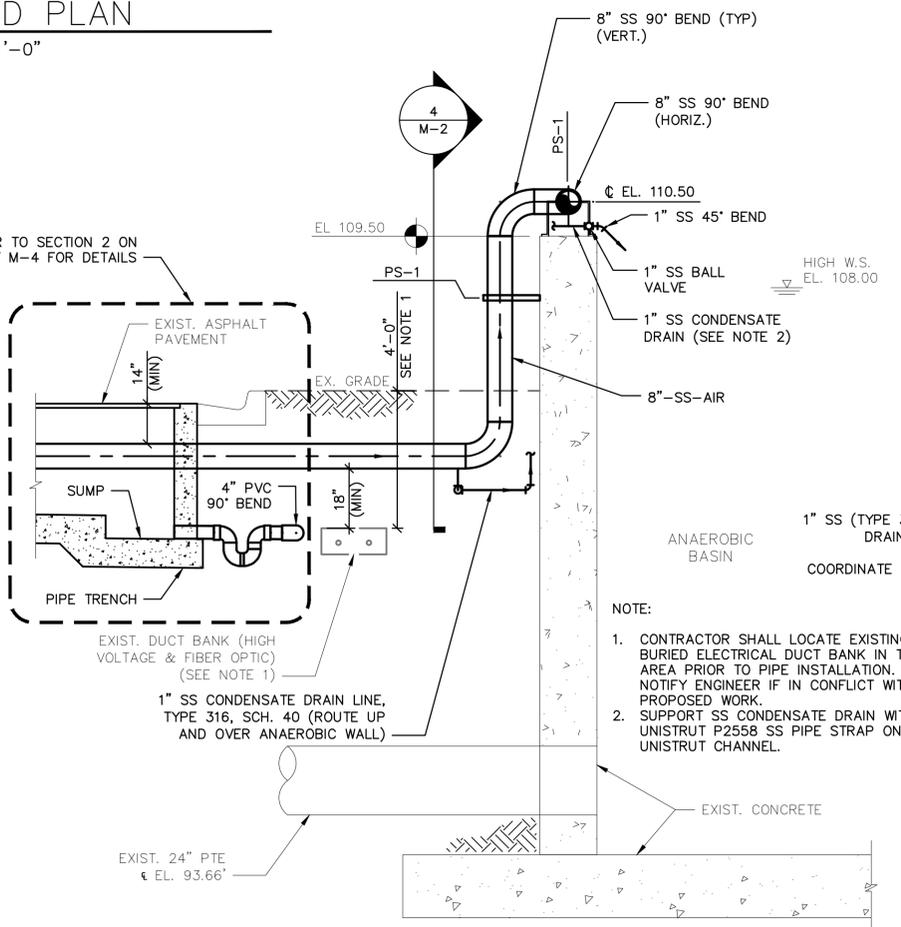
**5 SECTION**  
 SCALE: 1/2" = 1'-0"



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



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



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

NOTE:  
 1. CONTRACTOR SHALL LOCATE EXISTING BURIED ELECTRICAL DUCT BANK IN THIS AREA PRIOR TO PIPE INSTALLATION. NOTIFY ENGINEER IF IN CONFLICT WITH PROPOSED WORK.  
 2. SUPPORT SS CONDENSATE DRAIN WITH UNISTRUT P2558 SS PIPE STRAP ON SS UNISTRUT CHANNEL.

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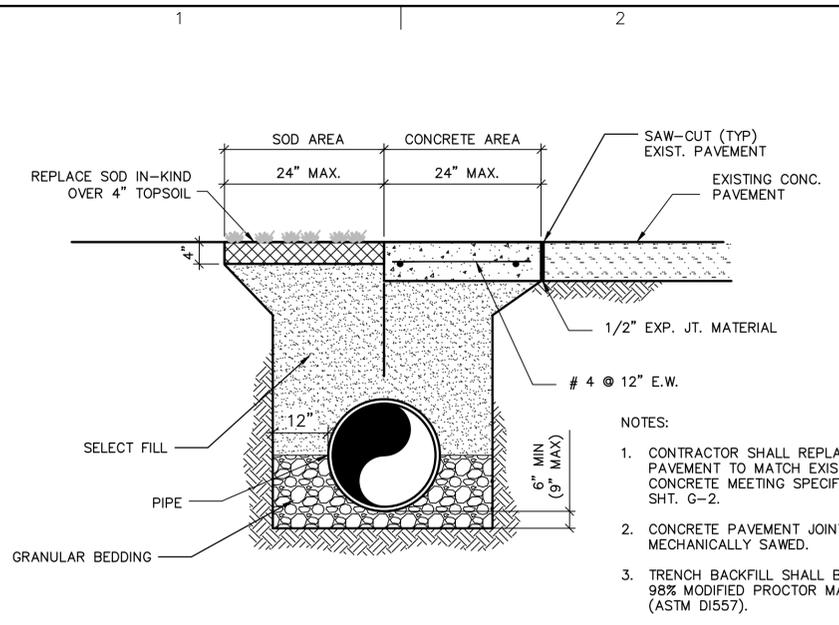
DATE: JUNE 2014  
 PROJECT NO.: 01697056.0001  
 FILE NAME: M-3  
 DESIGNED BY: J. GAULT  
 DRAWN BY: M. CALZON  
 CHECKED BY: P. McMASTER

SHEET TITLE

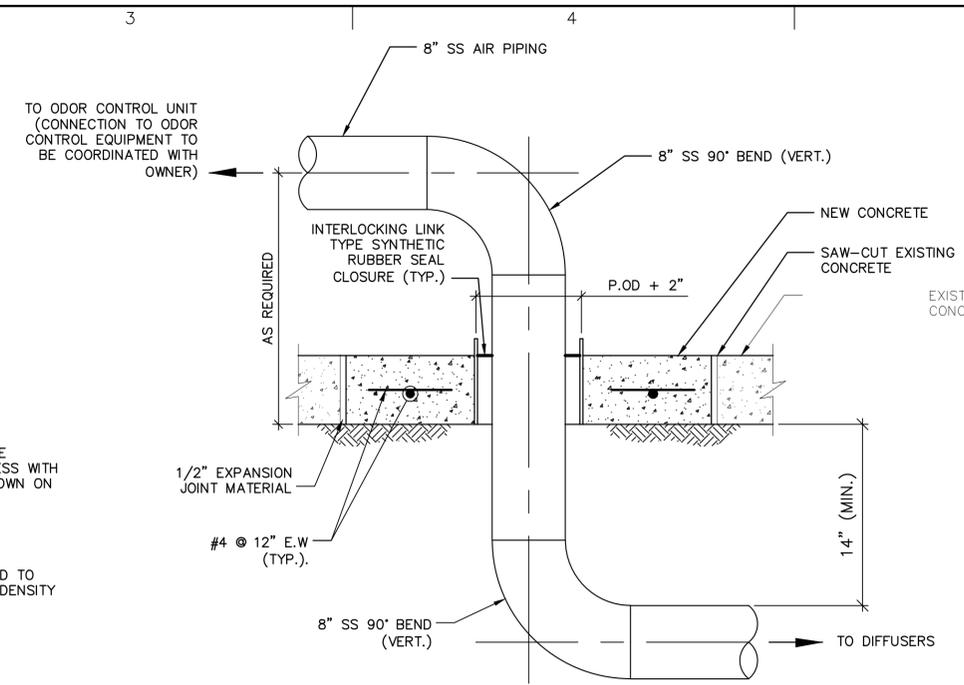
DETAILS

SCALE: AS SHOWN

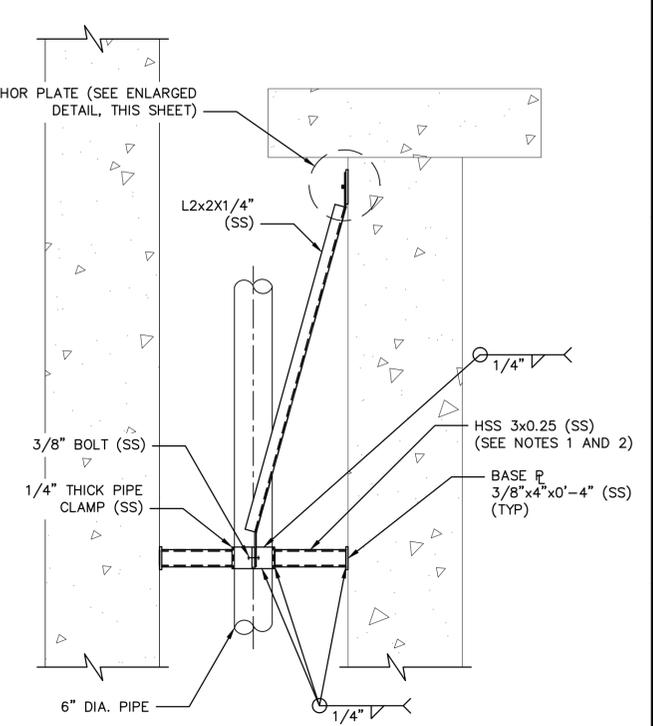
M-3  
 SHEET 5 OF 6



**TRENCH BACKFILL/RESTORATION CONCRETE PAVEMENT AND GRASSED AREAS**  
 SCALE: N.T.S.

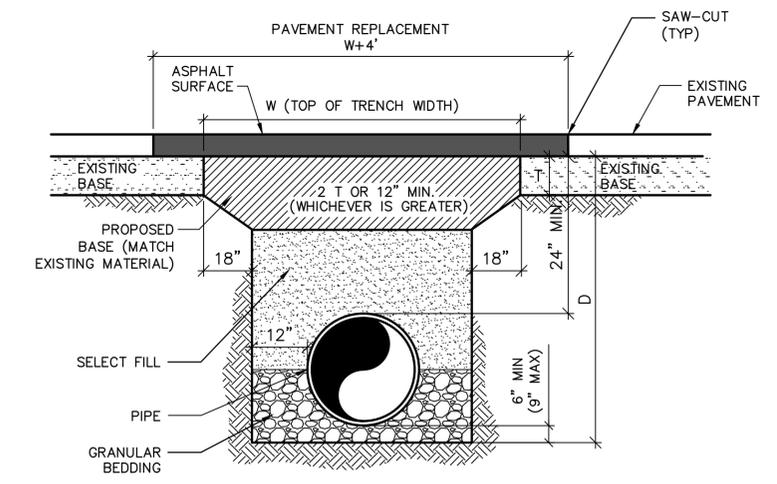


**AIR PIPING CONCRETE SLAB-ON-GRADE PENETRATION DETAIL**  
 SCALE: N.T.S.



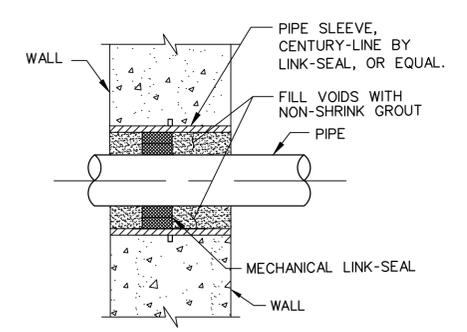
**PS-2 DIFFUSER PIPE SUPPORT**  
 SCALE: 3/4" = 1'-0"

- NOTES:
- CONTRACTOR SHALL FIELD MEASURE TO DETERMINE REQUIRED LENGTH OF LATERAL SUPPORTS.
  - ALLOW FOR 1/2" GAP TO FACILITATE INSTALLATION AND REMOVAL OF DIFFUSER ASSEMBLY.

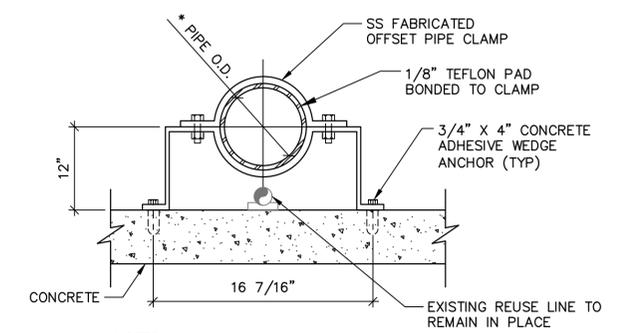


**TRENCH BACKFILL, PAVEMENT REPLACEMENT AND PAVEMENT OVERLAY DETAIL FOR ROADWAY RESTORATION**  
 SCALE: N.T.S.

- PAVEMENT NOTES:
- CONTRACTOR SHALL REPLACE PAVEMENT TO MATCH EXISTING THICKNESS WITH FDOT TYPE SP9.5. MATCH EXISTING PAVEMENT GRADES.
  - "T" EQUALS EXISTING BASE THICKNESS.
  - ASPHALT PAVEMENT JOINT SHALL BE MECHANICALLY SAWED WHERE JOINING EXISTING PAVEMENT.
  - TRENCH BACKFILL AND BASE SHALL BE COMPACTED TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557).
  - CURB RESTORATION SHALL BE FDOT TYPE F TO MATCH EXISTING.

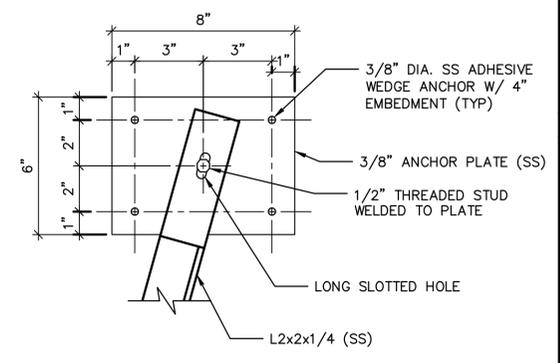


**WATERTIGHT PIPE SLEEVE PENETRATION**  
 SCALE: N.T.S.



**PS-1 OFF-SET PIPE SUPPORT**  
 SCALE: N.T.S.

- NOTES:
- \* DIAMETER SHALL BE SIZED TO ALLOW PIPE TO SLIDE FREELY.
  - TYPE 316 SS REQUIRED FOR ALL PARTS.



**ENLARGED DETAIL**  
 SCALE: 3" = 1'-0"

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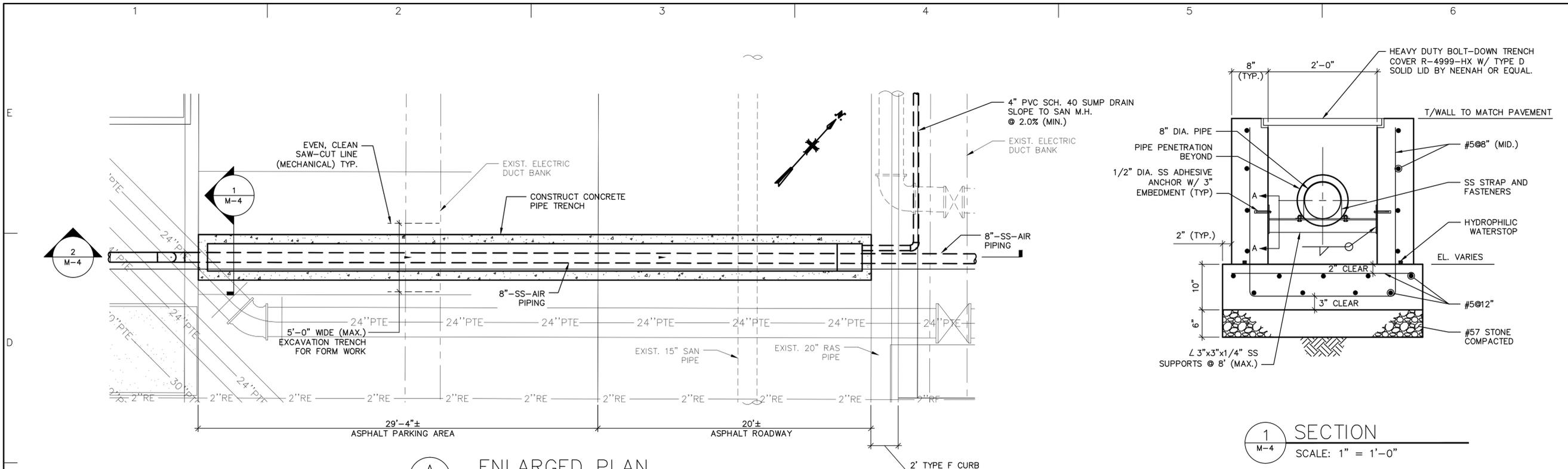
DATE: JUNE 2014  
 PROJECT NO.: 01697056.0001  
 FILE NAME: M-4  
 DESIGNED BY: J. GAULT  
 DRAWN BY: M. CALZON  
 CHECKED BY: P. McMASTER

SHEET TITLE

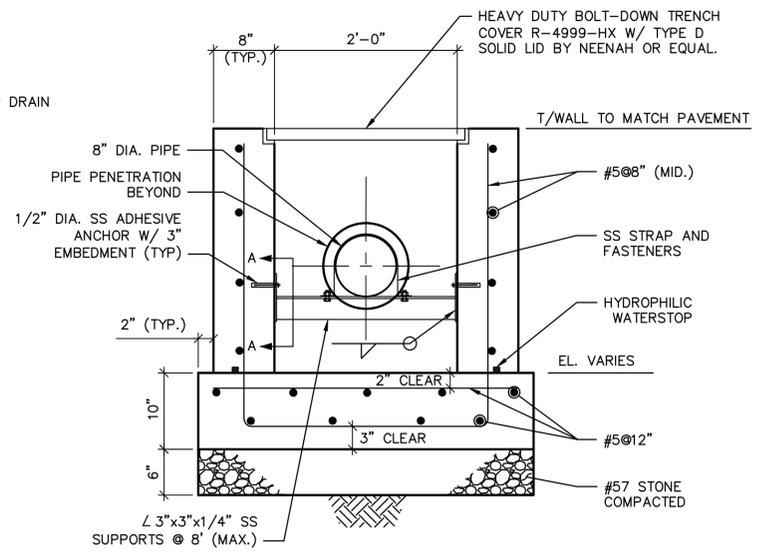
ENLARGED PLAN  
 AND SECTIONS

SCALE: AS NOTED

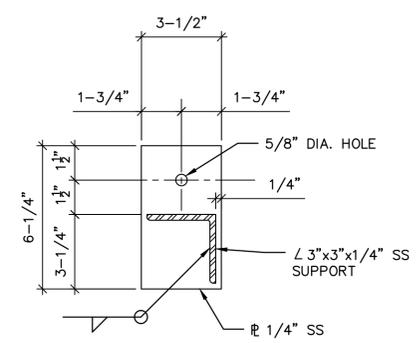
M-4  
 SHEET 6 OF 6



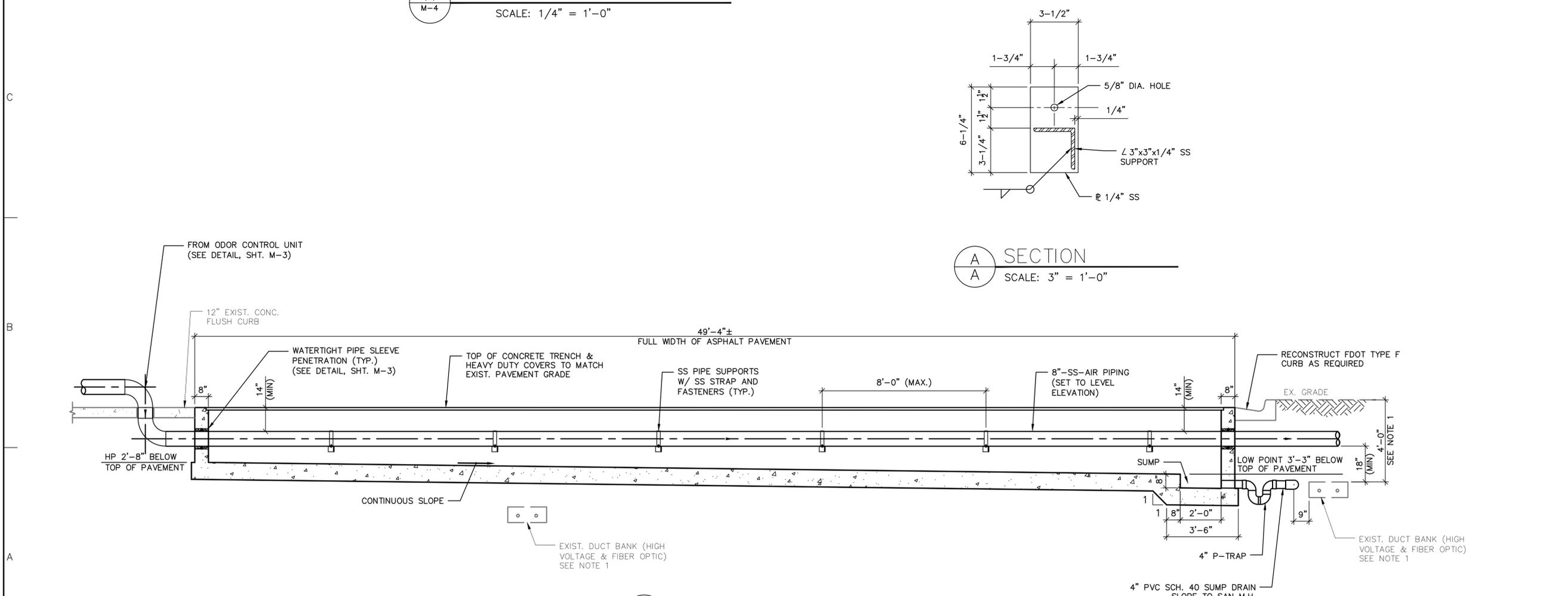
**A** ENLARGED PLAN  
 SCALE: 1/4" = 1'-0"



**1** SECTION  
 M-4 SCALE: 1" = 1'-0"



**A** SECTION  
 SCALE: 3" = 1'-0"



**2** SECTION  
 M-4 SCALE: 3/8" = 1'-0"

NOTE:  
 1. CONTRACTOR SHALL LOCATE EXISTING BURIED ELECTRICAL DUCT BANK IN THIS AREA PRIOR TO PIPE INSTALLATION. NOTIFY ENGINEER IF IN CONFLICT WITH PROPOSED WORK.

XREFS: IMAGES:None  
 User:Gault Spec:PIRNE STANDARD File: \\ACAD\PROJ\0000-ECUA\0000-ECUA\Xref\ECUA-34X22\_TLB\K.DWG Scale:1:1 Date:06/12/2014 Time:13:19 Layout:Model  
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