



August 26, 2022

Ms. Cindy Mulkey
Office of Siting Coordination
Department of Environmental Protection
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399

Re: **West County Energy Center – PPSA No. PA05-47**
Post-Certification Amendment
Five Concrete Slabs/Foundations

Dear Ms. Mulkey:

Florida Power & Light Company (FPL) is requesting a post-certification amendment to the Site Certification for FPL's West County Energy Center (WCEC), pursuant to rule 62-17.205(1)(A) F.A.C. The purpose of this amendment is to obtain approval to construct the following concrete slabs/foundations within the certified boundary of WCEC:

- Trailer slab for Demineralization (Demin) Plant (4,975 square feet);
- Service station transformer (193 square feet);
- Service station transformer (193 square feet);
- Reverse Osmosis trailer slab plan (14,980 square feet);
- Demin tank PDC foundation (574 square feet)

Attachment A shows the project location map. The project will include the construction of five minor slabs/foundations with a combined area of 20,915 square feet. The paving improvement areas are proposed to support the relocation of existing Demineralization (Reverse Osmosis) Plant equipment. Attachment B provides the construction plans for the proposed paving improvements.

The proposed concrete slab/foundation areas include a total of 20,915 square feet or 0.48 acres of paved surfaces. The existing locations where the proposed improvements will be constructed were initially assumed to be impervious. Due to there being no increase in impervious area, there will be no impact to the water quality requirement. (see Drainage Statement in Attachment C).

Thank you for your attention to and consideration of FPL's request to amend the Site Certification for the West County Energy Center. If you have any questions regarding this submittal, please do not hesitate to contact me at 561-691-7041.

Sincerely,
Florida Power & Light Company

A handwritten signature in black ink, appearing to read 'Beth Flah', is written over a horizontal line.

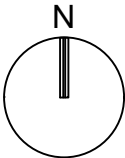
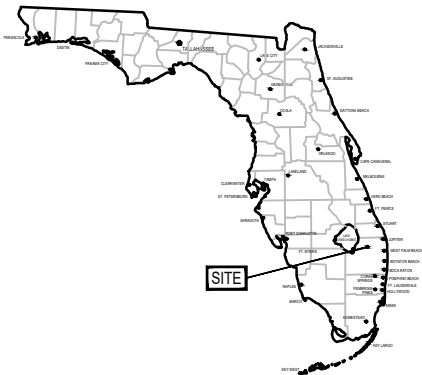
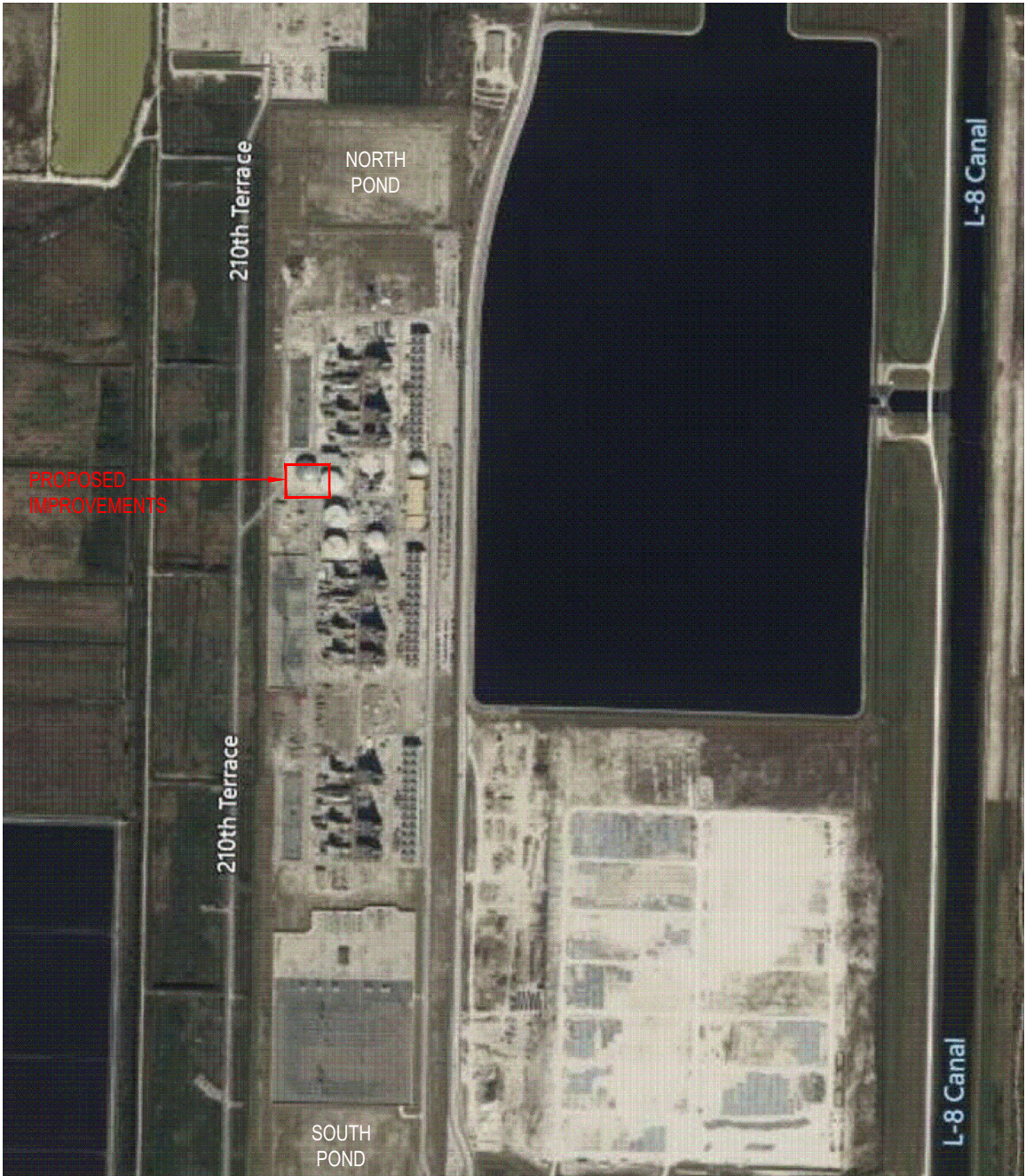
Beth Flah, P.E.
Environmental Specialist II

Florida Power & Light Company
700 Universe Boulevard, Juno Beach, FL 33408

Attachment A

Project Location Map

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE		
AS-BUILT INFORMATION	ORG	BY	ENGINEERING ORGANIZATION	ORG	BY
	DATE			DATE	

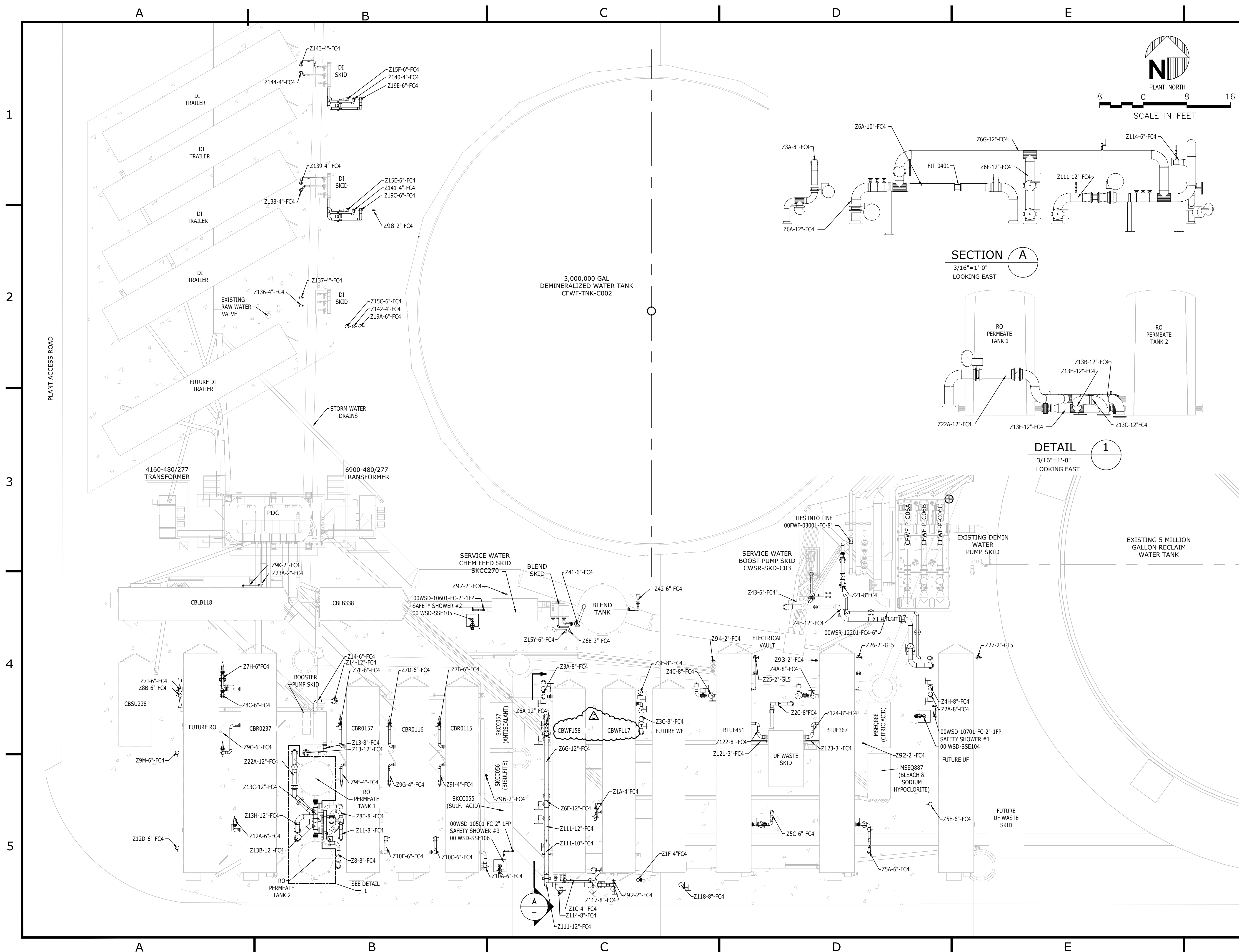


REV	DATE	ISSUED FOR USE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	DISCIPLINE	PLANT/UNIT	
	TYPE	UNIT	WEST COUNTY ENERGY CENTER	
	DRAWING SIZE A (8.5X11)	SCALE N/A	TITLE EXHIBIT	
DRAWING NUMBER			SHEET E-1	REV 0

Attachment B

Construction Plans





GENERAL NOTES:

- FOR STRUCTURAL DESIGN NOTES SEE DRAWING 657660 F001-S001.
- FOR EXISTING STORMWATER CATCH BASIN SCHEDULE AND DETAILS, SEE DRAWING 657660 C001-S002.
- FOR DEMIN TANK FOUNDATION, SEE DRAWING 657660 F002-S001.
- EDGE OF NEW SLAB TO MATCH THE EDGE OF ROADWAY ELEVATION SHOWN IS APPROXIMATE EDGE OF ROADWAY ELEVATION.
- FOR ELECTRICAL MANHOLE, SEE DRAWINGS 657660 F005-S001 AND 02-E300-S002.
- FOR WEST COUNTY RELOCATION EQUIPMENT LAYOUT AND TAG ID NUMBER, REFER TO MPW ENGINEERING DRAWING NUMBER FPL WEST COUNTY - 01000.
- FOR DI TRAILER FOUNDATION, SEE DRAWING 657660 02-F007-S002.
- FOR TRANSFORMER FOUNDATIONS SEE DRAWING 657660 02-F010-S001.
- FOR PDC FOUNDATIONS SEE DRAWING 657660 02-F008-S001.
- THE 9'-9" DIMENSION, IS MEASURED FROM THE FACE OF THE TRAILER TO THE FACE OF THE PDC BUILDING.
- BOTTOM OF CONTAINER ELEVATION DROPPED TO EL 99'-9".
- LOCATIONS NOTED ON DRAWING ARE LOCATED PER SITE AS-BUILT SURVEY INFORMATION RECEIVED ON 06/02/22.

LEGEND:

□ DENOTES CONCRETE FOUNDATION

ORIGINAL

REVISED PER FPL MEASUREMENTS AND ASSOCIATED UG/AG REWORK

06/20/22 DC CTL CTL RWB CTL

ISSUED FOR CONSTRUCTION

03/11/22 DC CTL CTL RWB CTL

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.



SNC • LAVALIN
CONSTRUCTORS INC.
11335 NE 122ND WAY
SUITE 200
KIRKLAND, WA 98034-6937

CA Lic. No. 27843

SCALE: AS NOTED

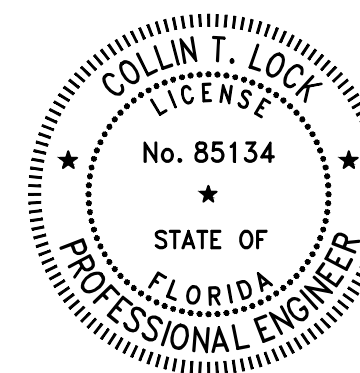
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FLORIDA POWER AND LIGHT

WEST COUNTY FLORIDA
DEMINERALIZED PLANT RELOCATION
PO NUMBER 2000371611

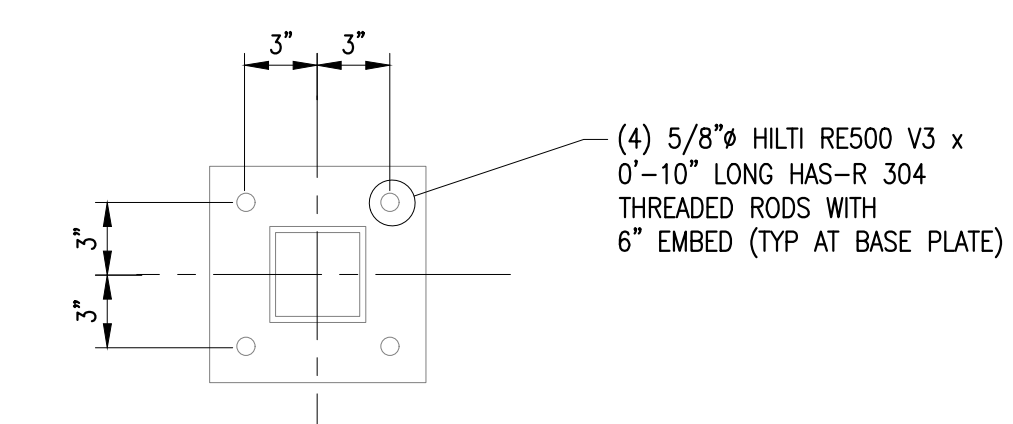
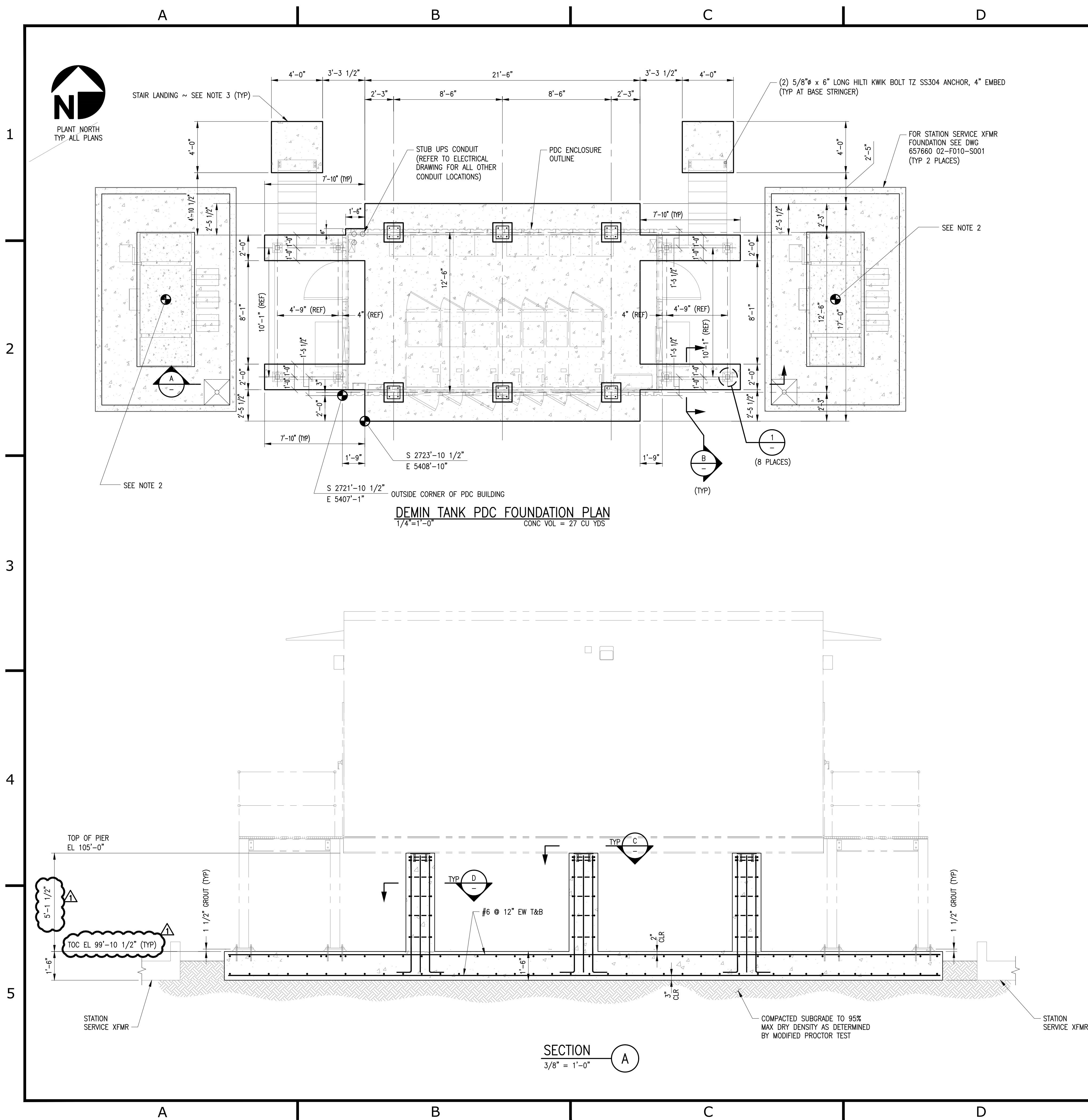
RO TRAILER SLAB PLAN
SECTIONS AND DETAILS

DWG. 657660 02-F007-S003

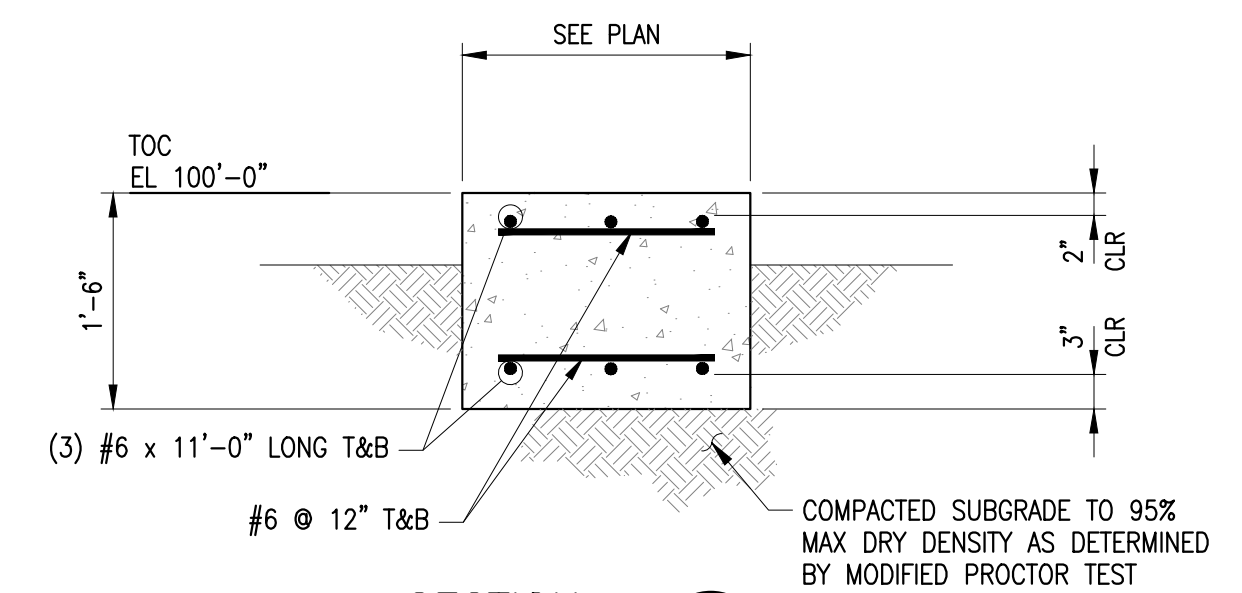


ENLARGED SOUTH RO TRAILER SLAB FOUNDATION PLAN

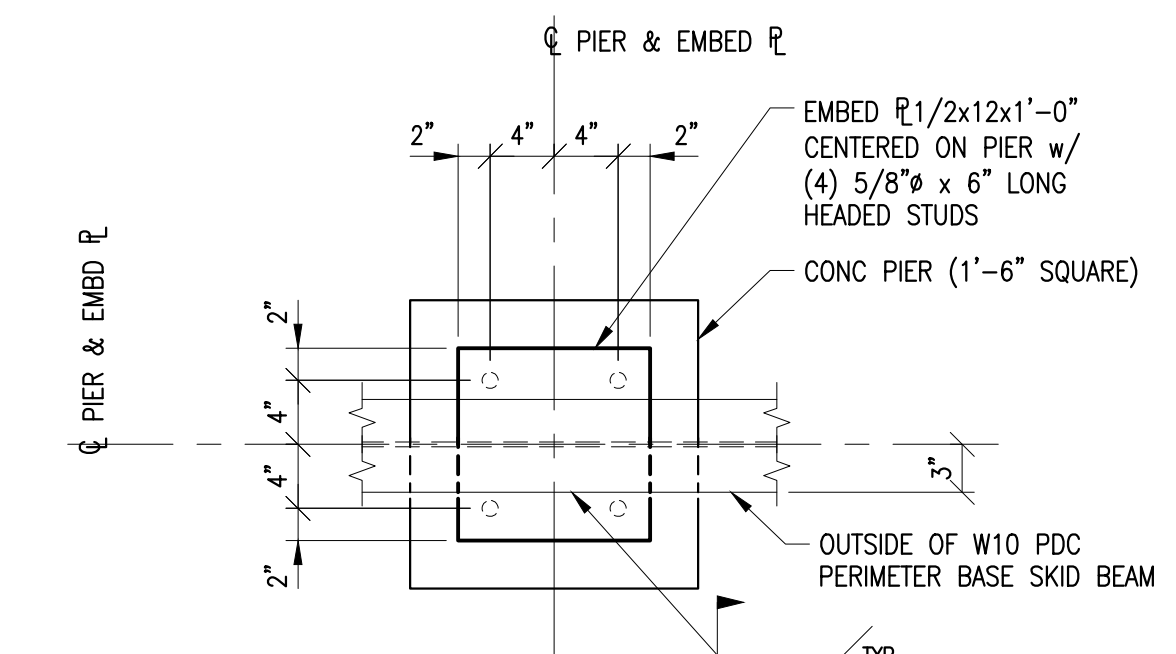
1 DETAIL
3/32" = 1'-0"



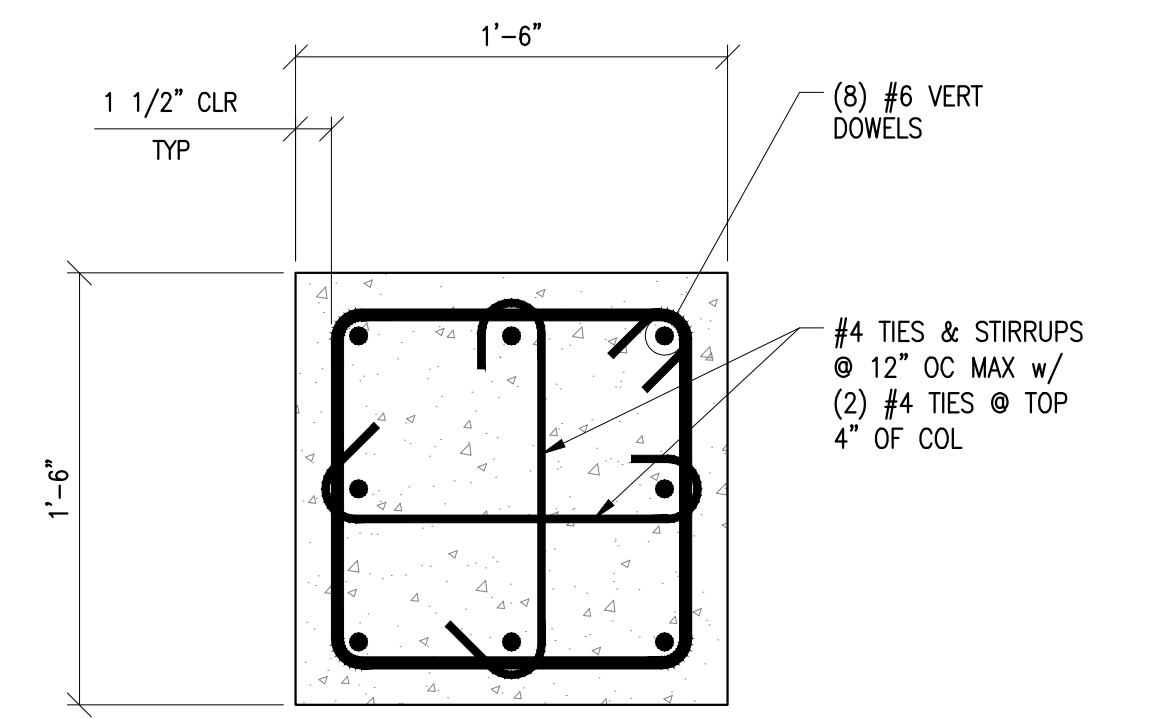
TYPICAL PLATFORM COLUMN BASE PLATE DETAIL
DETAIL
1 1/2" = 1'-0"



SECTION
3/4" = 1'-0"



TYPICAL HORIZONTAL EMBED PLATE DETAIL
SECTION
1" = 1'-0"



TYPICAL PIER REINF ARRANGEMENT
SECTION
1 1/2" = 1'-0"

GENERAL NOTES:

- FOR STRUCTURAL DESIGN NOTES SEE DRAWING 657660 F001-S001.
- FOR TRANSFORMER FOUNDATIONS LOCATION, SEE DRAWING 657660 02-F010-S001.
- STAIR PAD FOUNDATION TO BE MIN. 6" THICK WITH TOC EL 100'-0" AND PLACED OVER COMPACTED SUBGRADE. REINFORCING TO BE (4) #4 EACH WAY CENTERED.

LEGEND:

REFERENCE DWGS:

E055 (WUNDERLICH-MALEC) DRAWING 3521068-S102 PDC FOUNDATION LAYOUT

REFERENCE SPECS:

ORIGINAL

REVISED TOC EL						
03/11/22	DC	FPL	CTL	RWB	CTL	

ISSUED FOR CONSTRUCTION						
02/17/22	DC	FPL	CTL	RWB	CTL	

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.

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SUITE 200
KIRKLAND, WA 98034-6937
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FLORIDA POWER AND LIGHT	
WEST COUNTY FLORIDA DEMINERALIZED PLANT RELOCATION PO NUMBER 2000371611	
DEMIN TANK PDC FOUNDATION	
DWG.	657660 02-F008-S001

1

INSTR

ELECT

MCH

STRUCT

PIPE

PROCESS

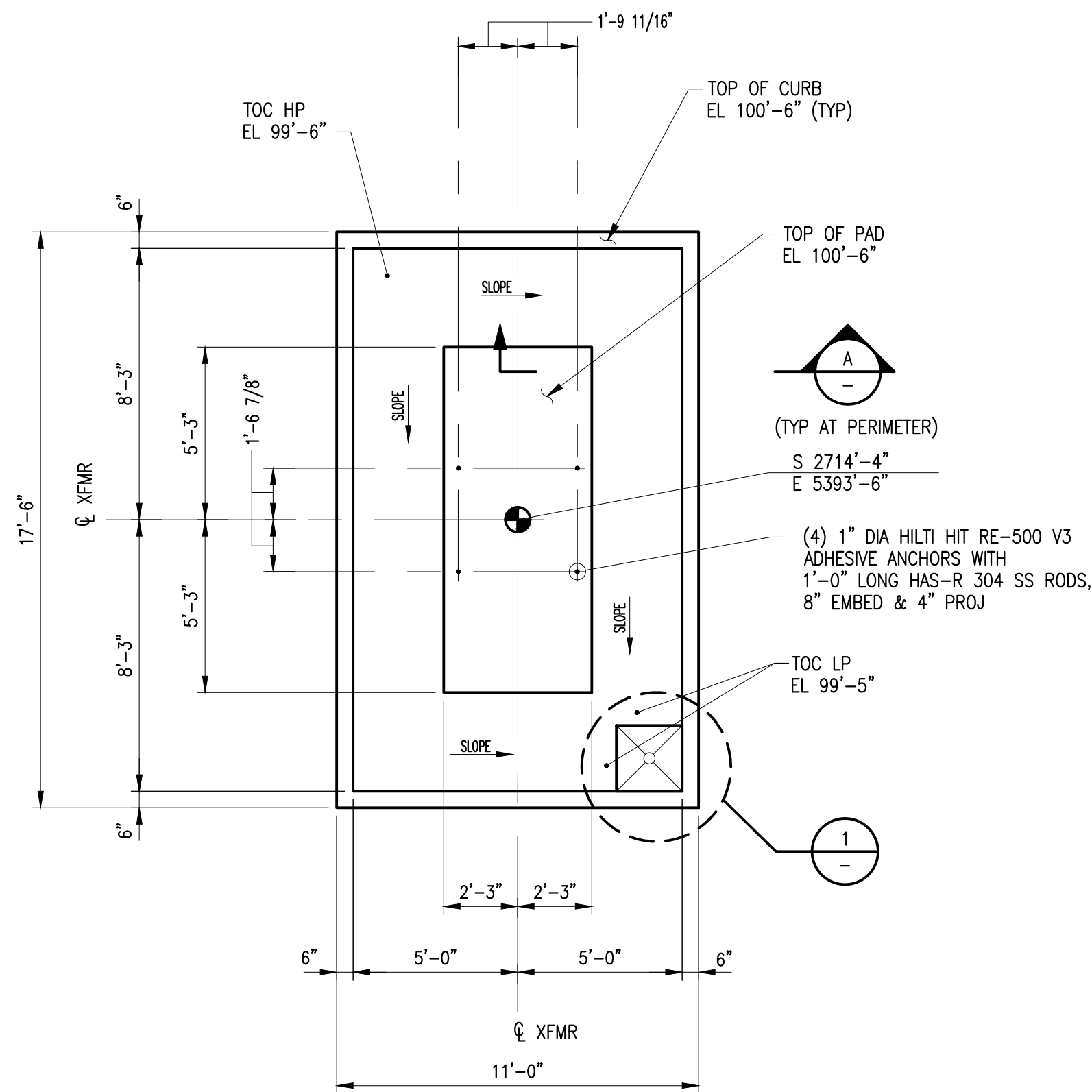
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SEEN BY

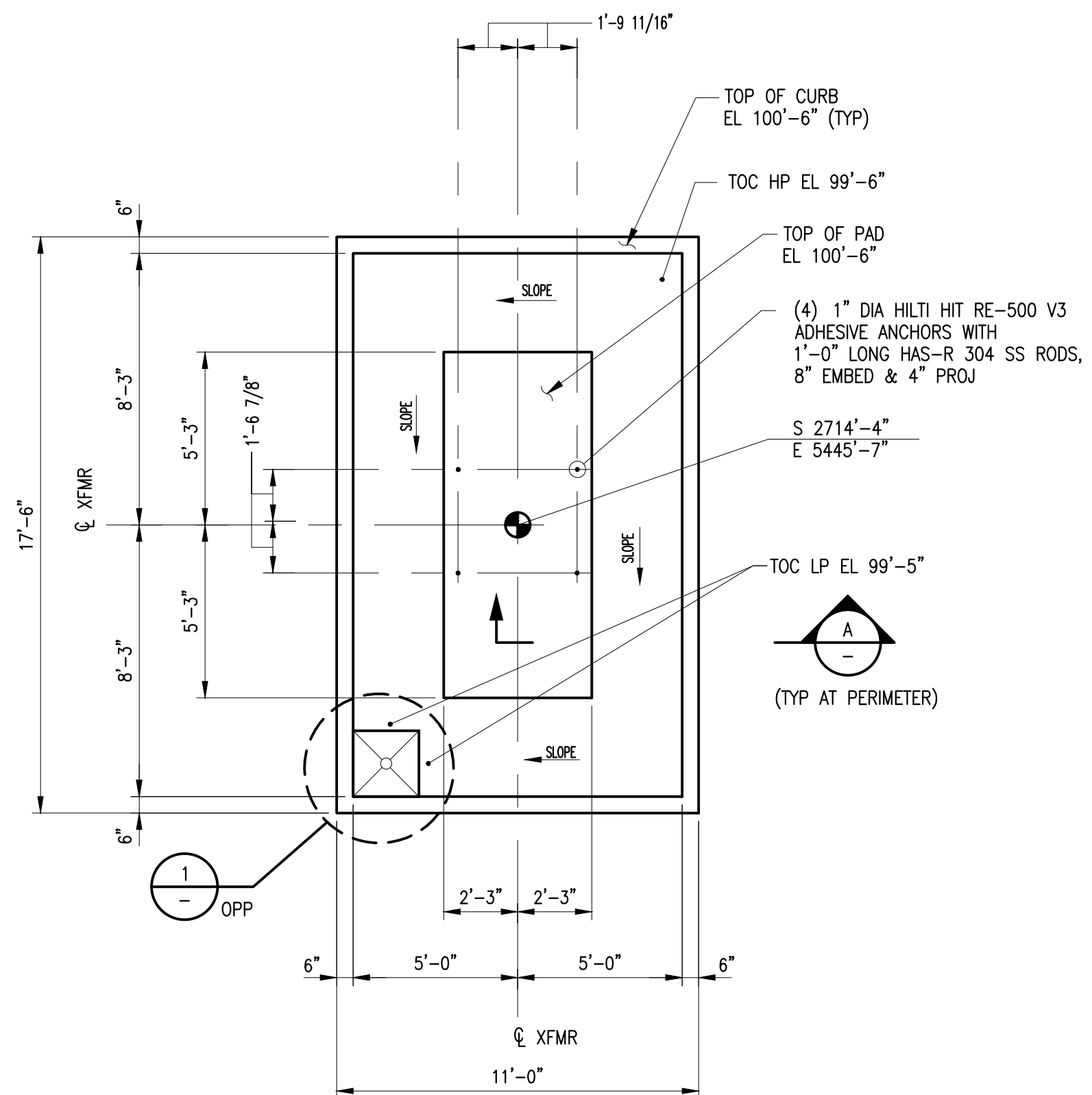
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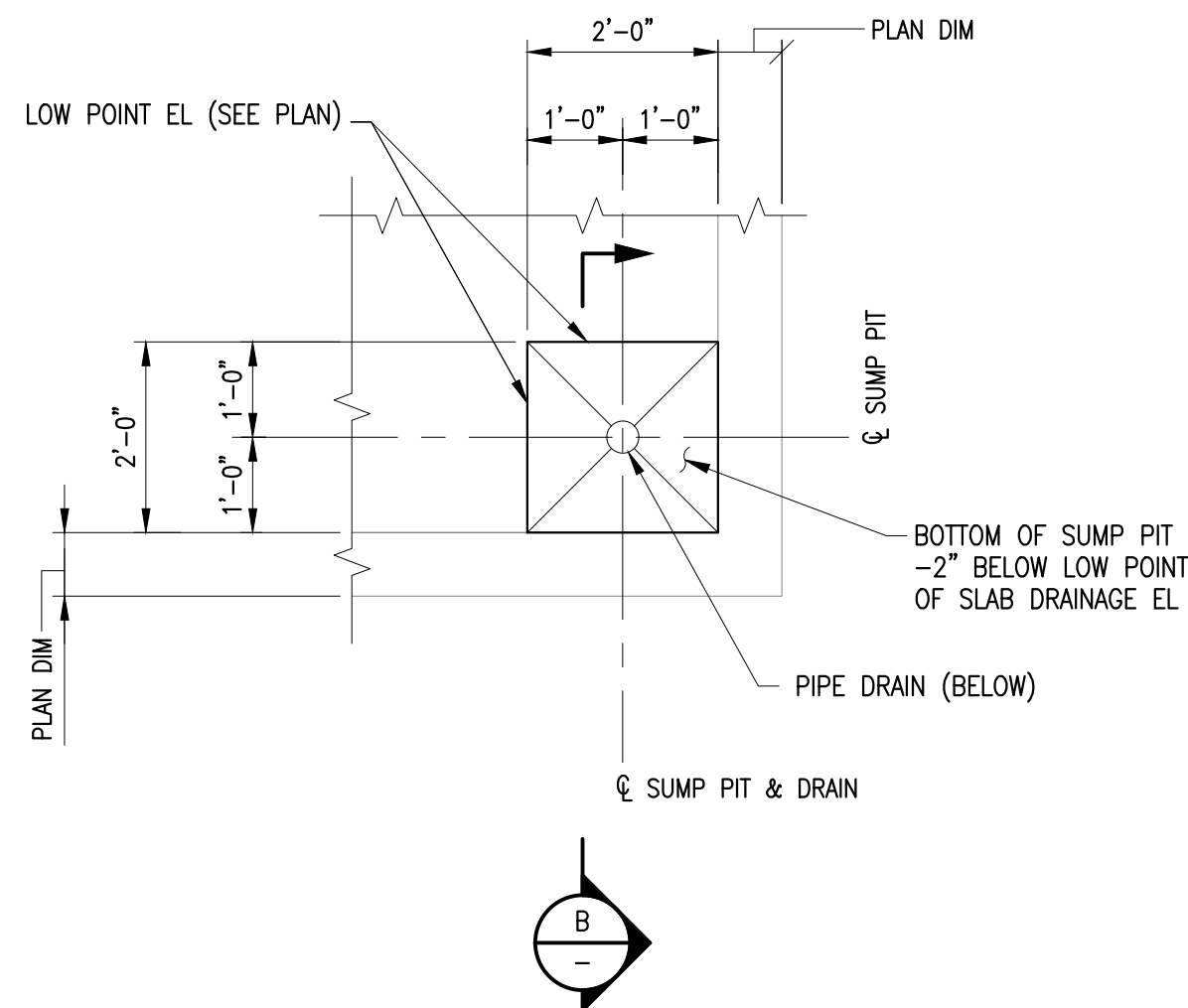
KDE



STATION SERVICE XFMR (4160-480/277) FOUNDATION
1/4"=1'-0" (CONC VOL = 9.9 CU YDS)

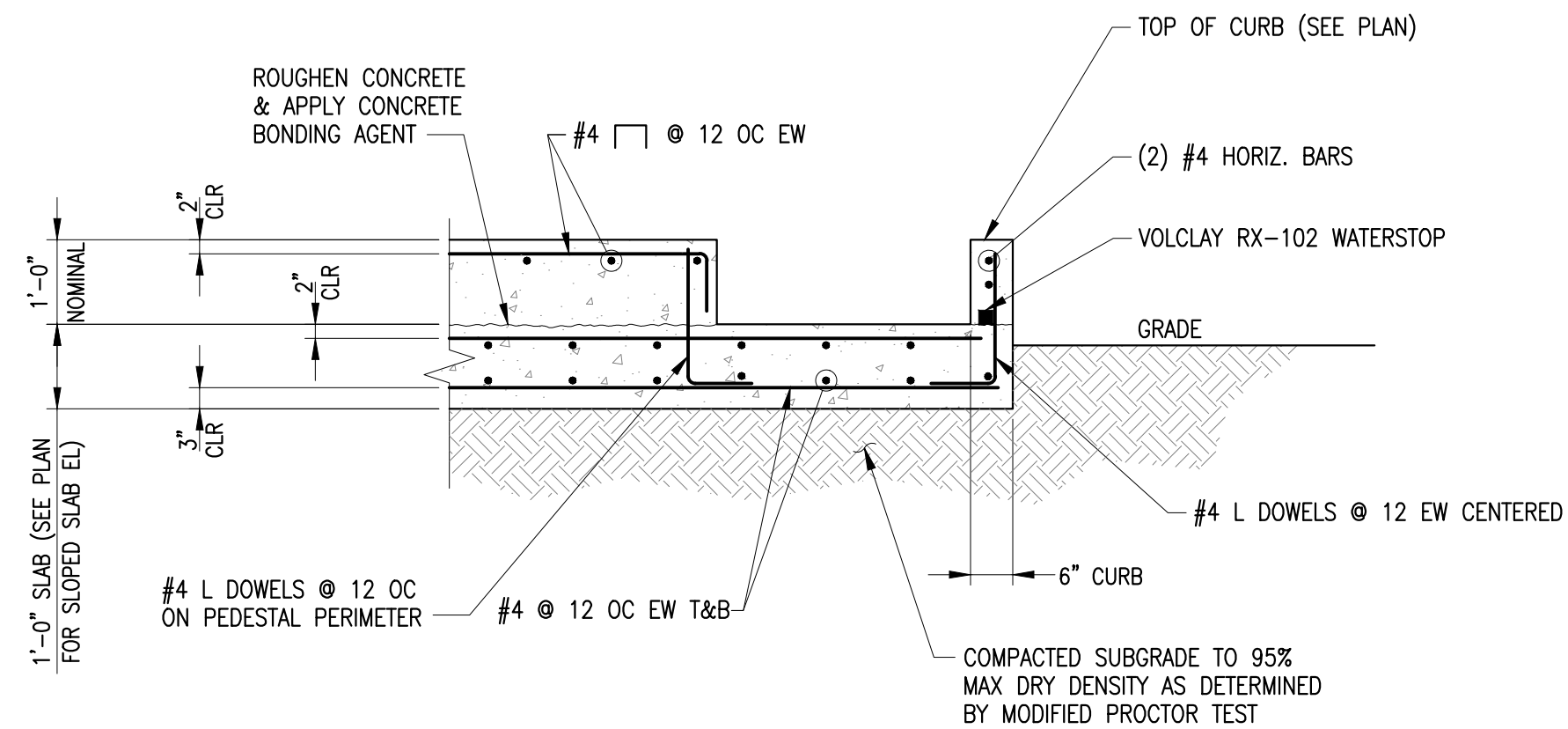


STATION SERVICE XFMR (6900-480/277) FOUNDATION
1/4"=1'-0" (CONC VOL = 9.9 CU YDS)

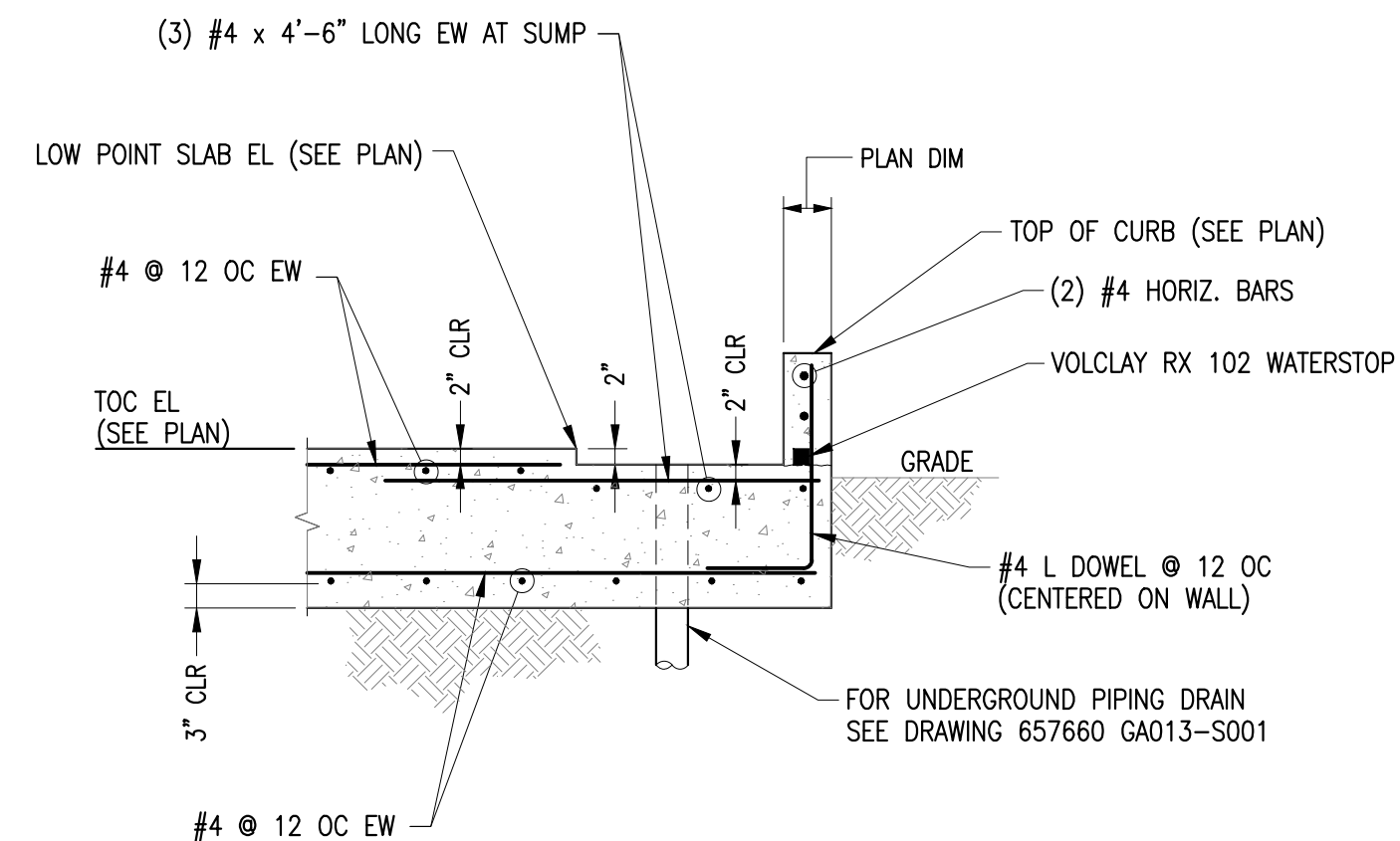


TYPICAL SUMP PIT PLAN DETAIL (2'-0" x 2'-0" x 2" DEEP SUMP PIT)

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



A SECTION
1/2" = 1'-0"



SECTION THRU SUMP PIT AND DRAIN PIPE

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

GENERAL NOTES:

- FOR STRUCTURAL DESIGN NOTES SEE DRAWING 657660 F001-S001.
- FOR PIPING SEE DRAWING 657660 02-GA013-S001.

REFERENCE DWGS:

E410 GE PROLEC
4160-480/277 XFMR OUTLINE
DRAWING SUA008101B801

6900-480/277 XFMR OUTLINE
DRAWING SUA008001B801

ORIGINAL

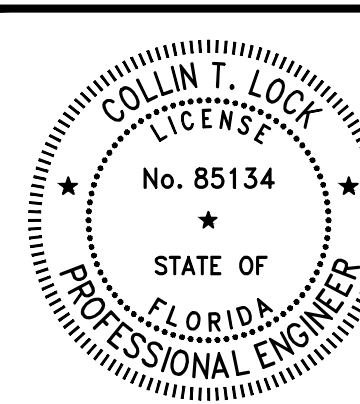
ISSUED FOR CONSTRUCTION

REVISION	DATE	BY	CHECKED	APPROVED	PROJ. TECH.	DIR. TECH.	PROJ. MGR.
02/17/22		DC	FPL	CTL	RWB	CTL	



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FLORIDA POWER AND LIGHT	
WEST COUNTY FLORIDA DEMINGALIZED PLANT RELOCATION PO NUMBER 2000371611	
TRANSFORMERS FOUNDATION PLANS SECTIONS AND DETAILS	
DWG.	657660 02-F010-S001



Attachment C

Drainage Statement



Drainage Statement: West County Energy Center Demin Plant Concrete Slabs/Foundation

Florida Power & Light Company is requesting an amendment to the previously issued Site Certifications for the West County Energy Center (WCEC) permitted under the following:

- SCA No PA05-47: West County Energy Center (Units 1 & 2)
- SCA No PA05-47SA1: West County Energy Center (Unit 3)

to support the installation of a Demin (RO) plant.

Demin Plant Improvements

The following improvements are necessary for the continued operation and maintenance operations at the WCEC:

- Construct trailer slab for Demin Plant (4,975 square feet);
- Construct service station transformer (193 square feet);
- Construct service station transformer (193 square feet);
- Construct RO trailer slab plan (14,980 square feet);
- Construct Demin tank PDC foundation (574 square feet);
- **Total = 20,915 square feet of concrete slabs/foundations**

The proposed improvements will be constructed on previously developed, upland area of the WCEC Plant.

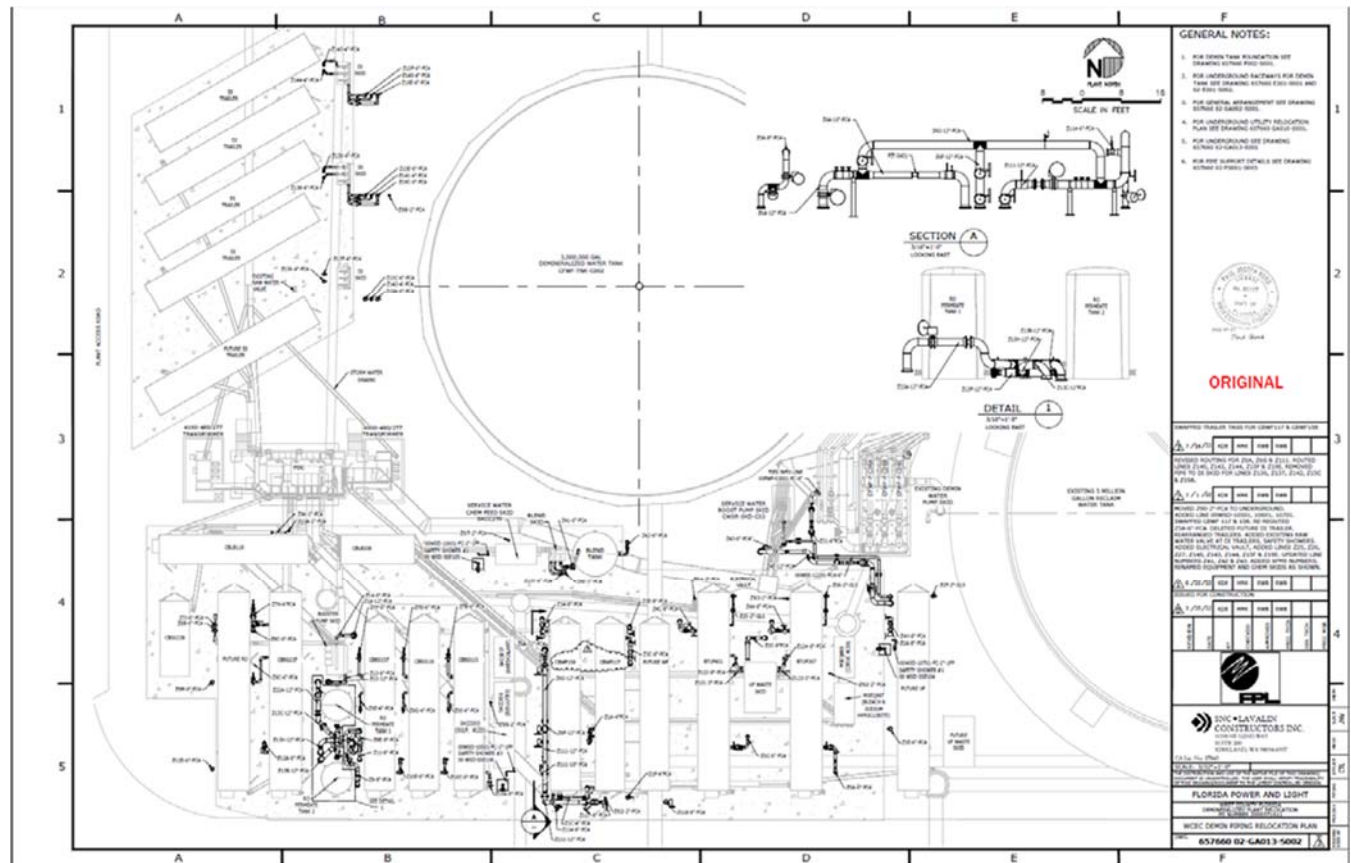


Figure 1: General Arrangement for Demin Plant improvements

Florida Power & Light Company

Stormwater Management

Per the Surface Water Management Calculations for FPL WCEC Unit 3 Expansion (*Serra Engineering dated 11/15/2007*), the improvements will be constructed within the North Basin of the WCEC stormwater management system. Refer to Figure 2 below.

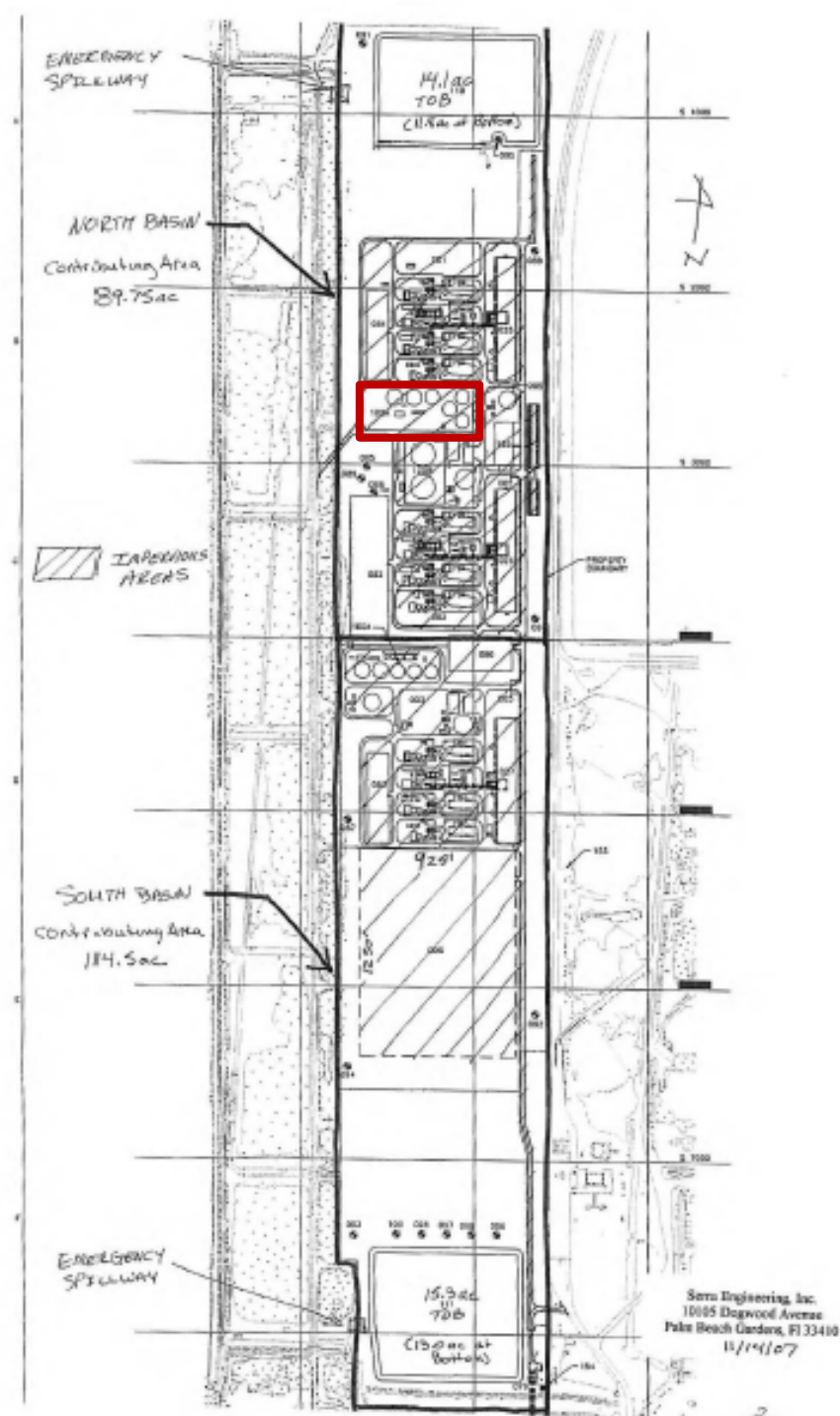


Figure 2: WCEC Basin Boundaries (Serra Engineering 11/15/2007)

The **20,915 square feet of impervious area** improvements have been accounted for in the **previously permitted** 55.85 acres of impervious area in the North Basin. There will be **no increase in impervious area** from the previously issued permits for the North Basin.

The runoff from the proposed improvements will drain via overland flow to existing drainage infrastructure within the North Basin. Piping and drainage structures will not be installed as part of the planned improvements. All slabs and foundations will be constructed at the existing finished grades (i.e. **no filling** of the site is planned). The runoff from all proposed improvements will ultimately drain to the North Pond.

Volumetric requirements and water quality treatment volumes for the impervious areas within the North Basin of the WCEC stormwater management system are **currently** provided by the North Pond. The existing ponds will **not be modified**.

No changes to the WCEC stormwater management system are necessary as a result of these improvements.

There will be **no increases** to the previously permitted discharge rates from the WCEC.

Claudine Alexander, Professional Engineer
State of Florida, License No. 53822

This item has been digitally signed and sealed by Claudine Alexander, P.E.
on August 25, 2022.

Printed copied of this document are not considered signed and sealed and
the signature must be verified.

Digitally signed
by Claudine R Alexander
Date: 2022.08.25
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