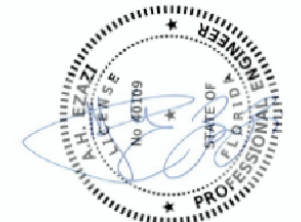
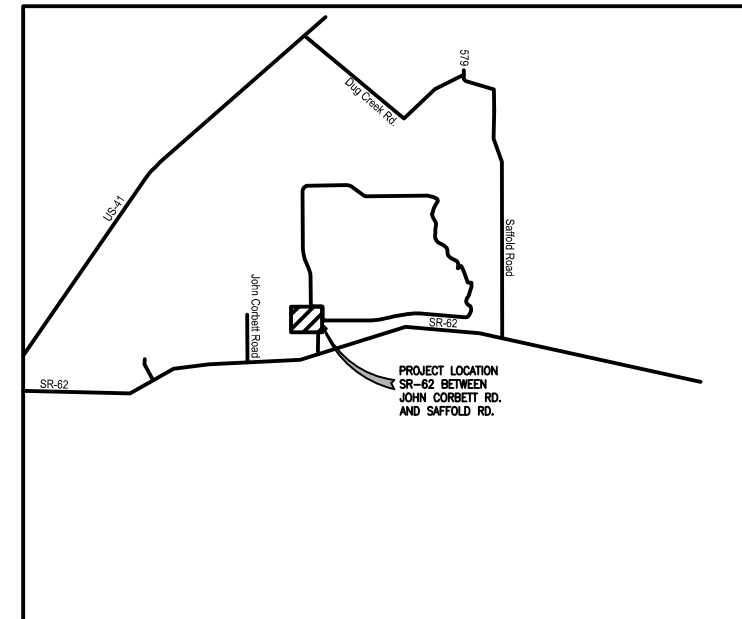
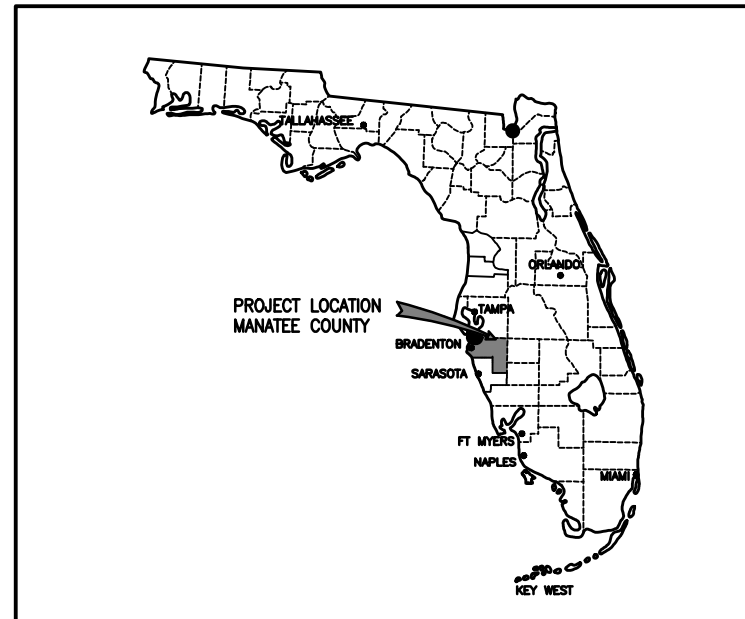


MANATEE CT YARD PRECAST CONCRETE WALL SITE PREPARATION AND GATES SITE DEVELOPMENT PLAN



MANATEE COUNTY, FLORIDA SECTION 18, TOWNSHIP 33S, RANGE 20E



PLANS PREPARED BY :

AECOM
5971 CATTLERIDGE BLVD, STE. 200
SARASOTA, FLORIDA 34232
FLORIDA ENGINEERING BUSINESS NO. EB-38
T. 941-377-8858 F. 941-371-2569



OWNER :
FLORIDA POWER AND LIGHT COMPANY
TRANSMISSION AND SUBSTATION SITING SECTION
700 UNIVERSE BLVD. (TS4-JW)
JUNO BEACH, FLORIDA 33408

"PERMIT SUBMITTAL SET"
XX-XX-XXXX

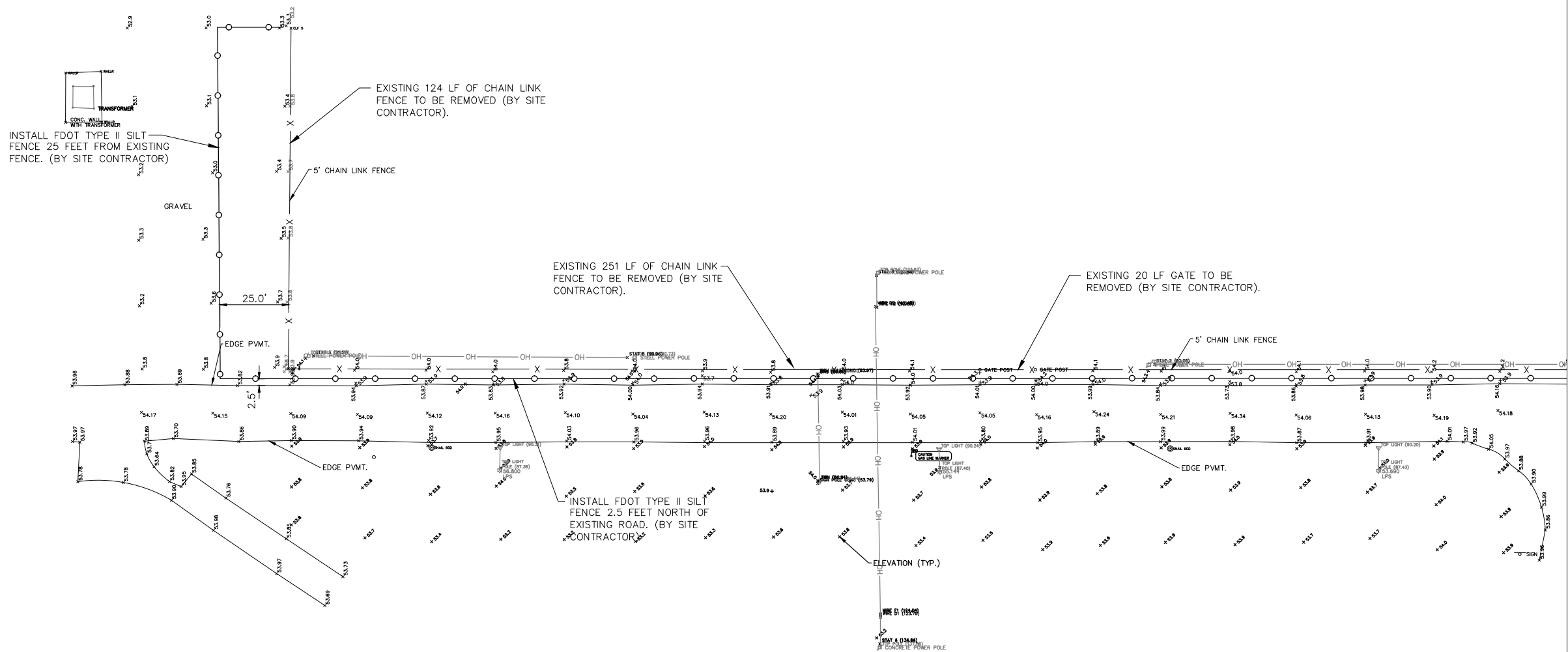
MANATEE PLANT
FPL PROJECT NO.

062624S16 R0 MAN00
SHEET NO. 1 OF 10

CADE

AECOM

A.H. EZAZI, P.E.
FLA. REG. #40109
ENGINEER'S SEAL



MATCH LINE

MATCH LINE

- LEGEND:
- PROPOSED ROCK COVER
 - PROPOSED ACCESS DRIVE
 - PROPOSED CHAIN LINK FENCE
 - BENCHMARK
 - GUY WIRE
 - SQUARE CONCRETE POWER POLE
 - LARGE DIAMETER WOOD POWER POLE
 - SMALL DIAMETER WOOD POWER POLE
 - CONCRETE POWER POLE
 - SUBSTATION BENCHMARKS (4' FROM FENCE)
 - 4' BARB WIRE FENCE



AECOM

SEE MAN CT FR SHEET 3 OF 13 FOR CONTINUATION OF PLANS.

SURVEY INFO PROVIDED BY:
JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET, FORT MYERS, FL 33902-1550
PHONE: (239) 334-0046 SURVEY DATE: 03-05-15

ER	NO	DATE	REVISION	BY	CH	COR	APP

DATE 03-20-12

SCALE 0 20 30 40 60

POWER SYSTEMS

DR MJB

CH AHE

ER

COR

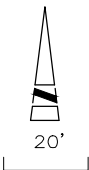
APPROVED

MANATEE CT YARD
FENCE REMOVAL PLAN

SHEET 2 OF 13
E-MAN CT FR
CADD

REV NO

A.H. EAZI, P.E.
FLA. REG. #40109
ENGINEER'S SEAL

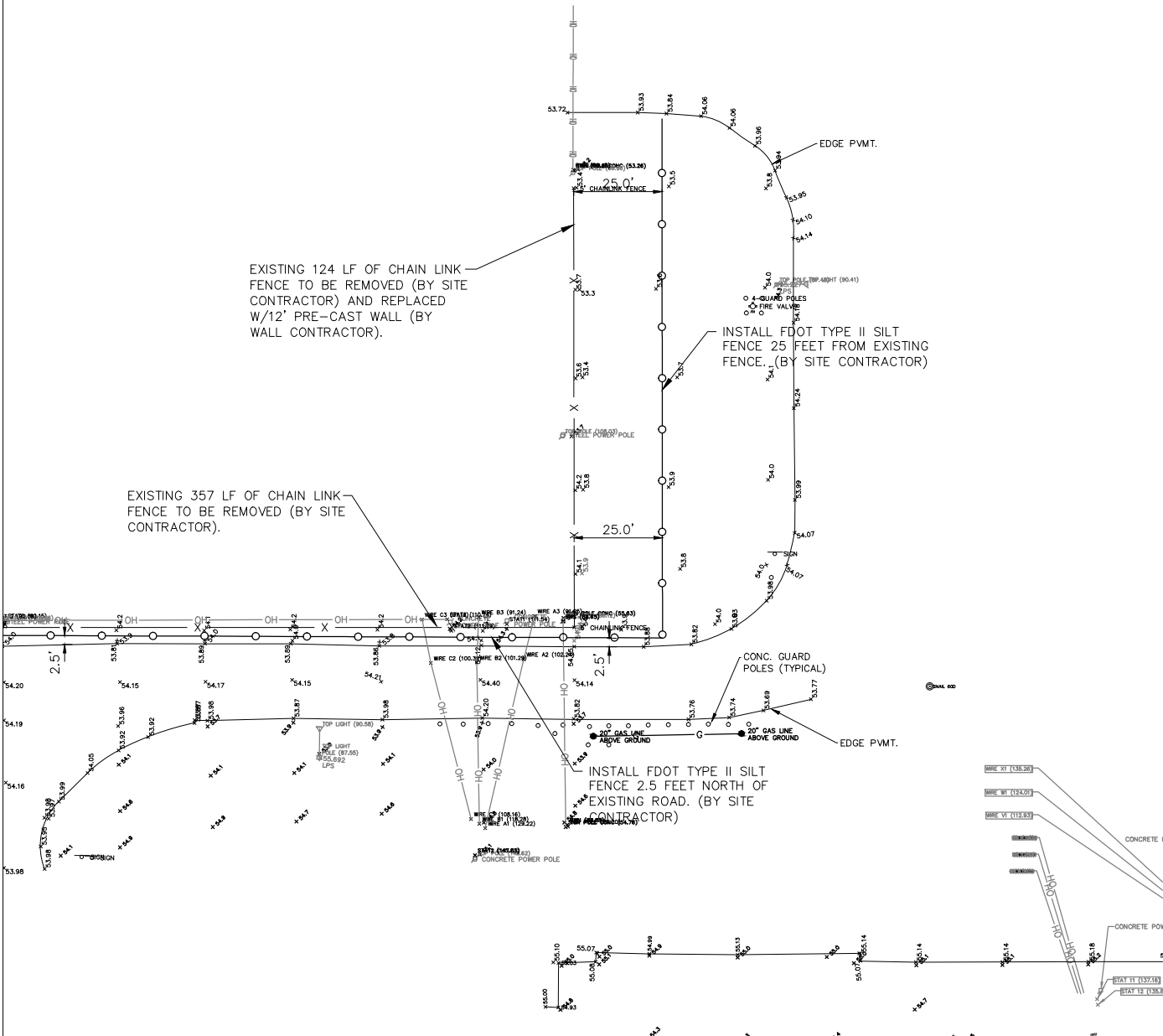


- LEGEND:
- PROPOSED ROCK COVER
 - PROPOSED ACCESS DRIVE
 - PROPOSED CHAIN LINK FENCE
 - BENCHMARK
 - GUY WIRE
 - SQUARE CONCRETE POWER POLE
 - LARGE DIAMETER WOOD POWER POLE
 - SMALL DIAMETER WOOD POWER POLE
 - CONCRETE POWER POLE
 - SUBSTATION BENCHMARKS (4' FROM FENCE)
 - 4' BARB WIRE FENCE

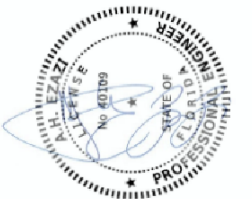


MATCH LINE

MATCH LINE



SEE MAN CT FR SHEET 2 OF 13 FOR CONTINUATION OF PLANS.



SURVEY INFO PROVIDED BY:
JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET, FORT MYERS, FL 33902-1550
PHONE: (239) 334-0046 SURVEY DATE: 03-05-15

ER	NO	DATE	REVISION	BY	CH	COR	APP

DATE 03-20-12 SCALE 0 20 30 40 60

POWER SYSTEMS

DR MJB ER
CH AHE COR
APPROVED

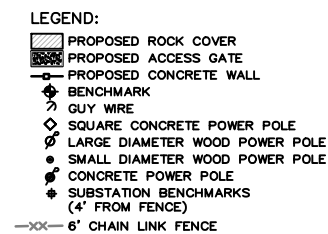
MANATEE CT YARD
FENCE REMOVAL PLAN

SHEET 3 OF 13
E-MAN CT FR
CADD

REV NO

A.H. EAZI, P.E.
FLA. REG. #40109
ENGINEER'S SEAL

AECOM



sunshine state
ONE CALL
911

800-999-9111 • 407-291-1111 • 305-391-1111

Know what's below.
Call before you dig.

811

Call before you dig. 811. It's the way to keep your family safe.



A.H. EZAZI, P.E.
FLA. REG. #40109
ENGINEER'S SEAL

[illegible]

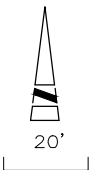
DATE 03-20-12	SCALE 0 20 30 40 60
 POWER SYSTEMS	DR MJB
	ER
CH AHE	COR
APPROVED	

MANATEE CT YARD
CONCRETE WALL PLAN

SHEET 4 OF 13
E-MANCT CWP
CADD

REV	
NO	

SEE MAN CT CWP SHEET 5 OF 13 FOR CONTINUATION OF PLANS.

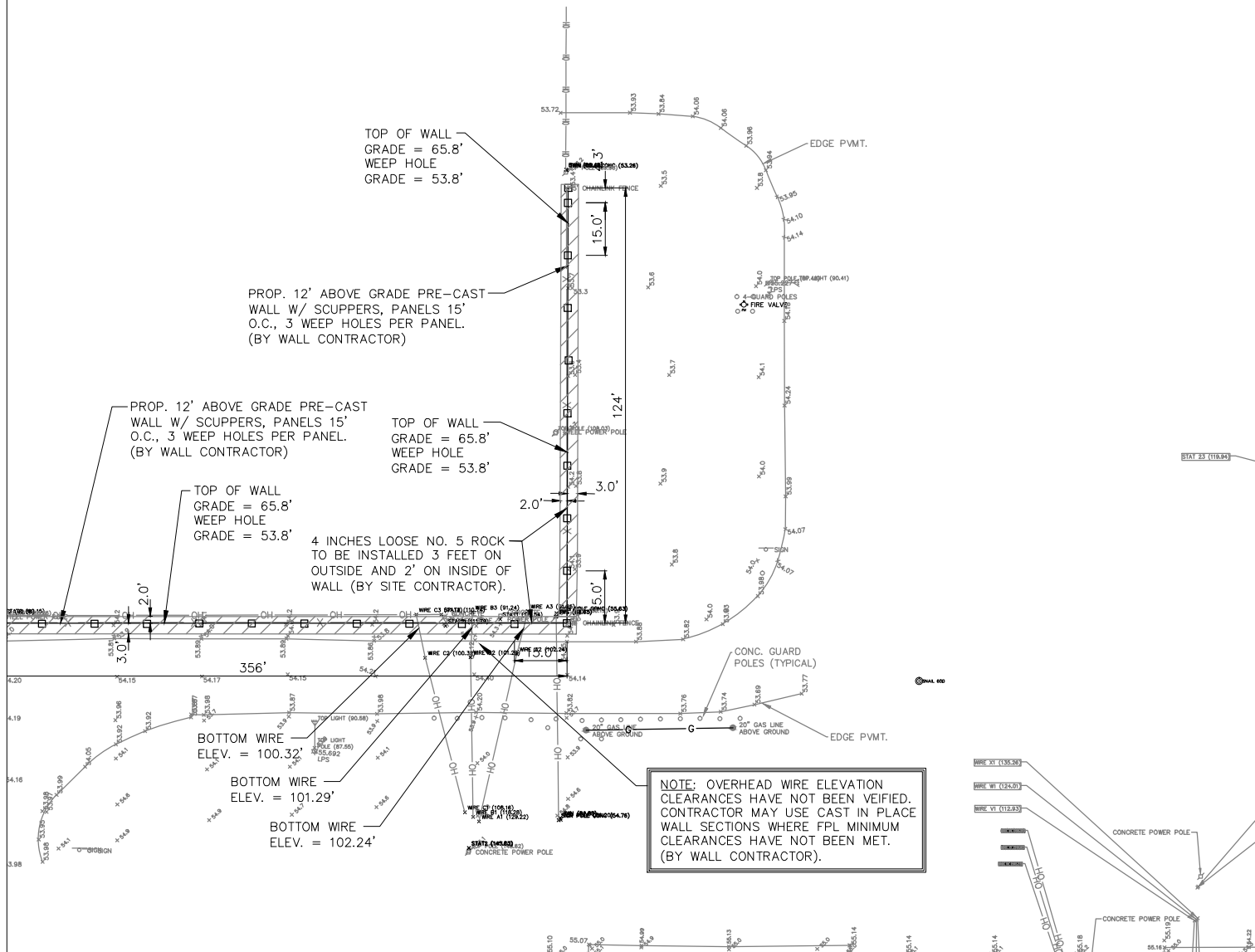


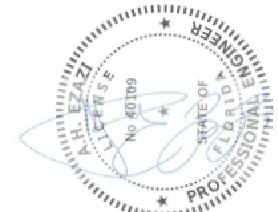
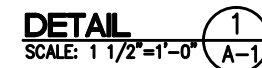
- LEGEND:
- PROPOSED ROCK COVER
 - PROPOSED ACCESS GATE
 - PROPOSED CONCRETE WALL
 - BENCHMARK
 - GUY WIRE
 - SQUARE CONCRETE POWER POLE
 - LARGE DIAMETER WOOD POWER POLE
 - SMALL DIAMETER WOOD POWER POLE
 - CONCRETE POWER POLE
 - SUBSTATION BENCHMARKS (4' FROM FENCE)
 - 6' CHAIN LINK FENCE



MATCH LINE

MATCH LINE





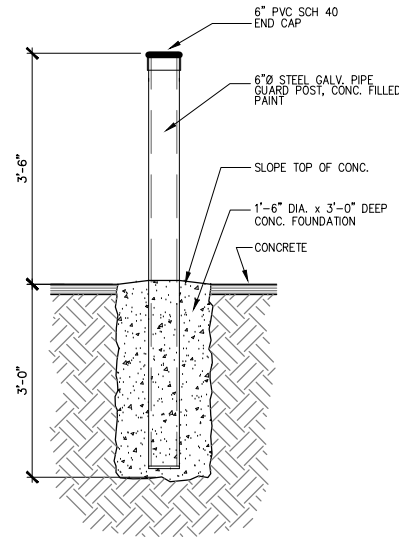
SECTION • GATE
SCALE: 3/4"=1'-0"

A - 1

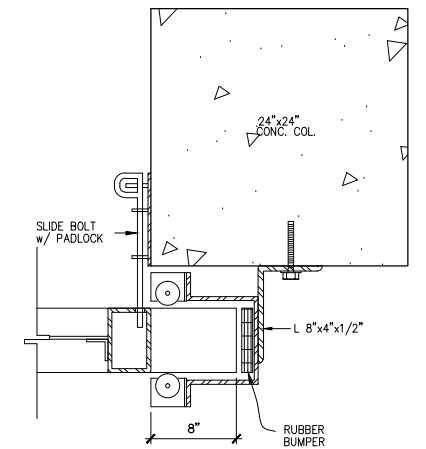
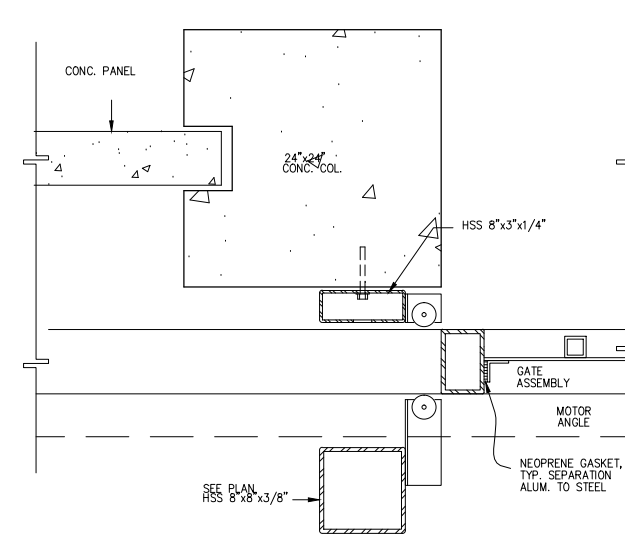
NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH FPL SPECIFICATIONS.
D-4 AS APPLICABLE.
2. ALL WORK SHALL COMPLY TO FLORIDA BUILDING CODE 2010 EDITION.
3. DESIGN LOADS :
WIND LOAD-PER ASCE 7-10
BASIC WIND LOAD VELOCITY.....Vults=194 mph
Vasd=150 mph

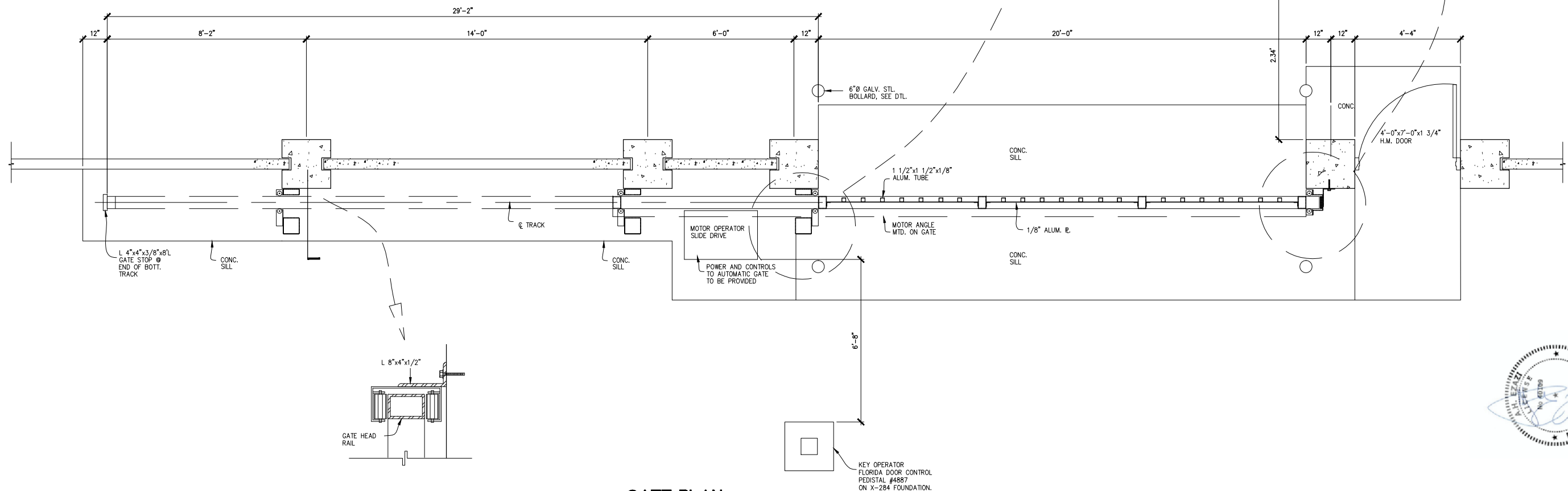
(RISK CATEGORY IV; EXPOSURE "D")
4. CONCRETE:
 - A. CONCRETE CONFORMING TO ASTM C94 TO ACHIEVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. PLANT CONTROL IS REQUIRED.
NO WATER SHALL BE ADDED AFTER MIXING TRUCK LEAVES PLANT WITHOUT THE APPROVAL OF PLANT ENGINEER. MAXIMUM MIX TIME AT POINT OF DEPOSIT IS 90 MINUTES.
 - B. REINFORCING STEEL: CONFORMING TO ASTM A-615- GRADE 60, FREE FROM OIL, LOOSE SCALE & RUST. C. WELDED WIRE FABRIC: CONFORMING TO ASTM A-185, FREE FROM OIL, LOOSE SCALE & RUST.
5. MISCELLANEOUS METAL, A. ROLLED SHAPES – ASTM A992 (FY.50.0 KSI) ROUND COLUMNS – ASTM A500 GRADE B (FY.42 KSI) MISC. ANGLES & PLATES – ASTM A-36 (FY.36.0 KSI).
 - B. ALL THESE SHAPES, MEMBERS AND CONNECTIONS DENOTED TO BE HOT DIPPED GALVANIZED SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - C. ALL STEEL SHALL BE HOT DIPPED GALVANIZED.
 - D. WELDING SHALL CONFORM WITH AWS SPECIFICATIONS. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS WHO MUST HOLD CURRENT WELDING CERTIFICATES.
 - E. FASTENINGS: MAKE ALL EXPOSED FASTENINGS OF STAINLESS STEEL SAME AS THE METAL TO WHICH FASTENING IS APPLIED, UNLESS OTHERWISE SHOWN.
 - F. ALUMINUM: ALLOY 6063-T6 MILL FINISH.
 - G. SEPARATE ALL ALUMINUM FROM GALVANIZED STEEL WITH NEOPRENE SEPARATORS.
 - H. GATES SHALL RECEIVE AN ESP (ELECTROSTATIC PAINT) FINISH, COLOR WHITE. SUBMIT SAMPLE FOR APPROVAL.
6. CONTRACTOR SHALL MINIMIZE FIELD WELDING: ALL FIELD WELDS SHALL BE CLEANED/PING AND COATED WITH COLD GALVANIZING MATERIAL.
7. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR FPL APPROVAL PRIOR TO FABRICATION.
8. GATE MOTOR: HYSECURITY, SLIDE DRIVE 30F WITH DRIVE RAIL, 1 PHASE 208/230V 60HZ.
9. FENCE AND GATE SHALL BE GROUNDED PER FPL STANDARD DRAWING E-16131 LATEST REVISION.
10. ACTIVE SUBSTATIONS SHALL BE SECURED AT ALL TIME. TEMPORARY FENCING SHALL BE INSTALLED AS NECESSARY TO SECURE THE SITE.
11. SUBSTATIONS SHALL BE ACCESSIBLE FOR EMERGENCY OPERATIONS AT ALL TIMES DURING CONSTRUCTION.
12. CONTRACTOR SHALL OBTAIN FENCE PERMIT AS REQUIRED BY LOCAL BUILDING CODES.
13. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS OF THE GATES TO FPL FOR REVIEW AND APPROVAL. GATES SHALL BE CONSTRUCTED IN GENERAL CONFORMANCE WITH THE CONTRACT DRAWINGS.



BOLLARD DETAIL
SCALE: 3/4"=1'-0"



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



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

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

[illegible]

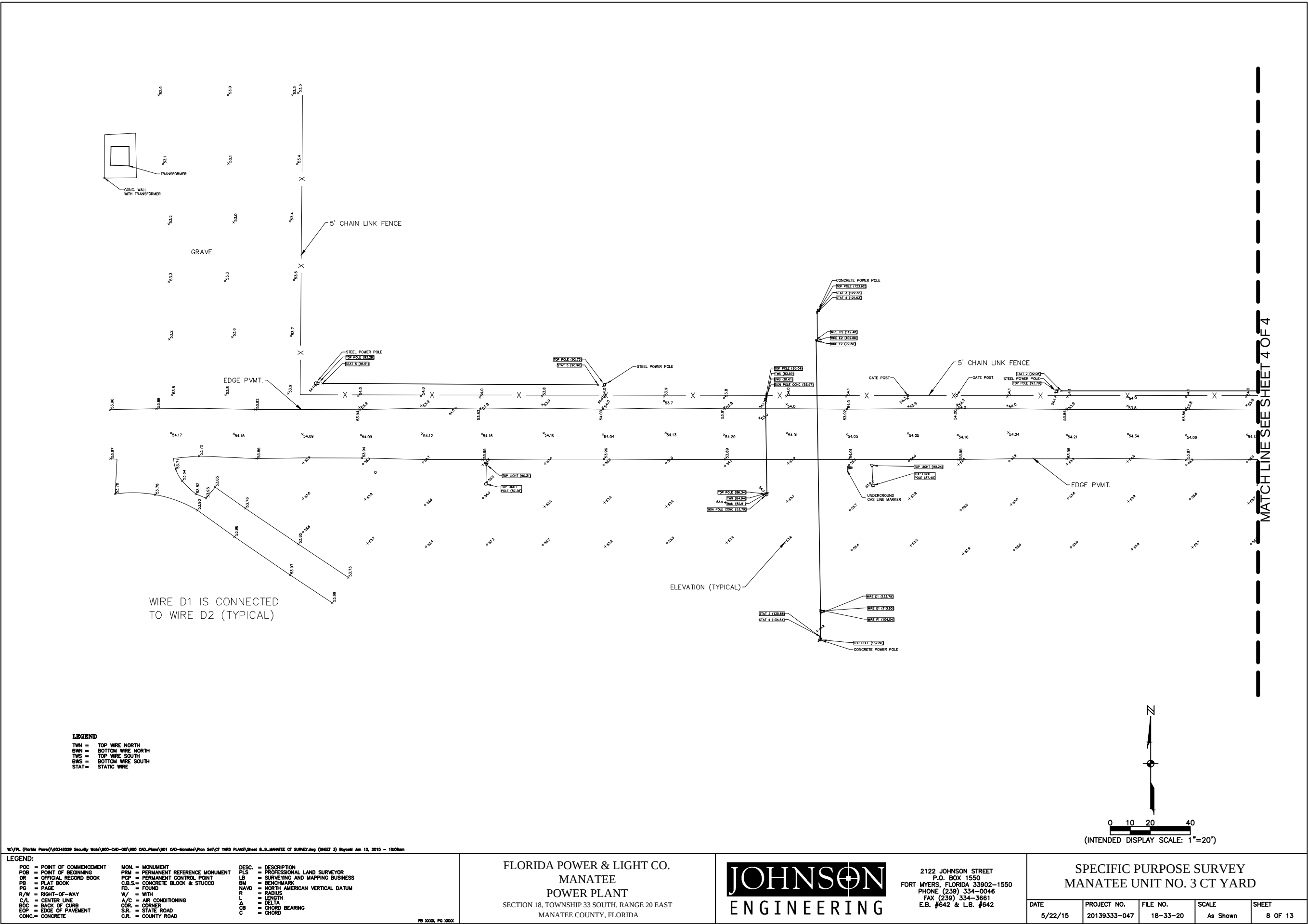
MANATEE SWITCH YARD
20' ROLLING GATE
GATE PLAN & DETAILS

132996S8_R0

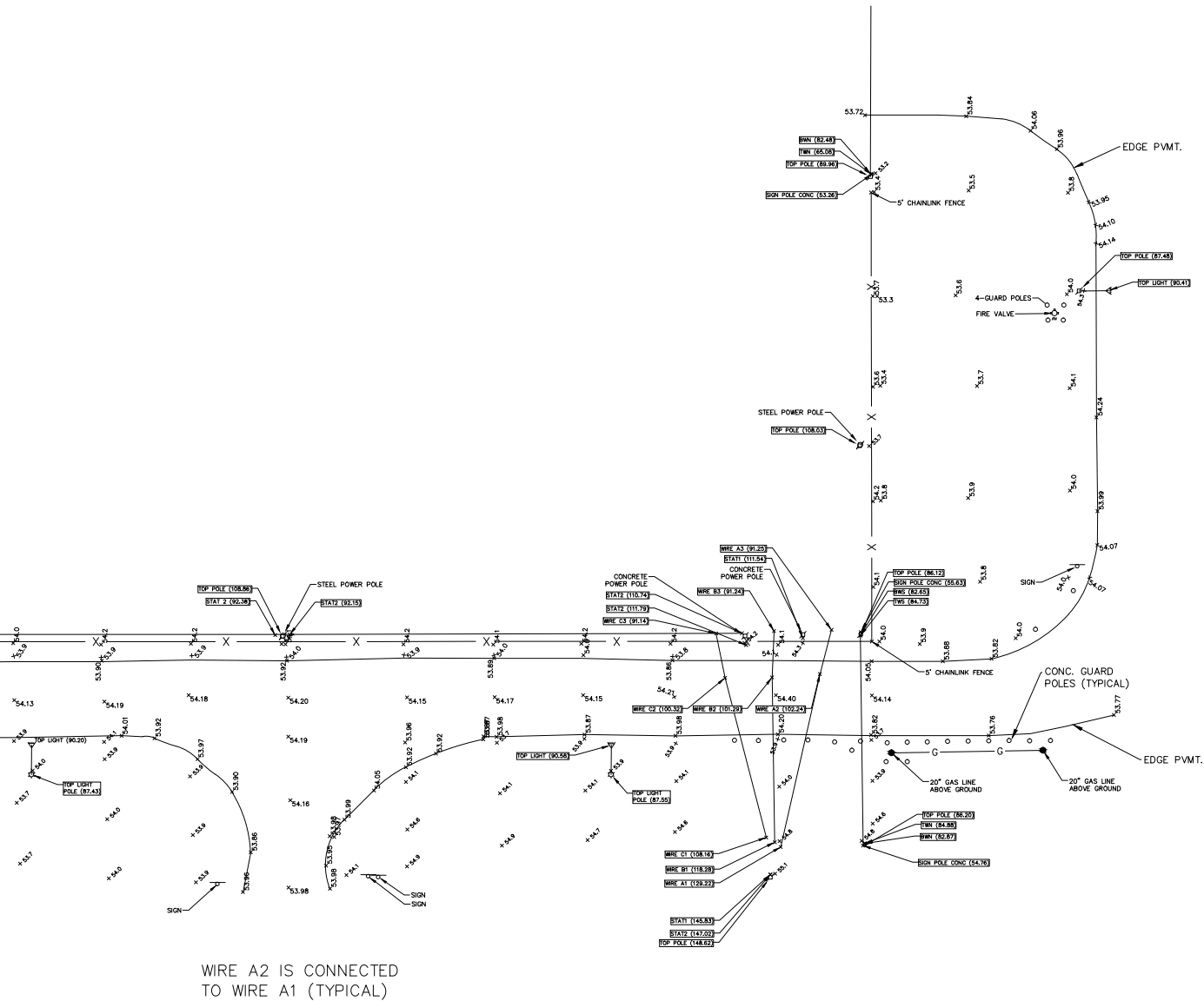
SHEET 7 OF 13
E-SLU27

REV	
NO	

A.H. EZAZI, P.E.
FLA. REG. #40109
ENGINEER'S SEAL

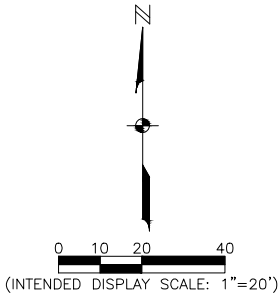


MATCH LINE SEE SHEET 3 OF 4



WIRE A2 IS CONNECTED
TO WIRE A1 (TYPICAL)

LEGEND
TWN = TOP WIRE NORTH
BWN = BOTTOM WIRE NORTH
TWS = TOP WIRE SOUTH
BWS = BOTTOM WIRE SOUTH
STAT = STATIC WIRE



W:\VPL (Florida Power)\60342029 Security Walls\800-CAD-GIS\800 CAD_Plan\801 CAD-Manatee\Plan Set\CT YARD PLANS\Sheet 8_9-MANATEE CT SURVEY.dwg (SHEET 4) BayceM Jun 12, 2015 - 10:07am

LEGEND:		
POC = POINT OF COMMENCEMENT	MON = MONUMENT	DESC = DESCRIPTION
POB = POINT OF BEGINNING	PRM = PERMANENT REFERENCE MONUMENT	PLS = PROFESSIONAL LAND SURVEYOR
OR = OFFICIAL RECORD BOOK	PCP = PERMANENT CONTROL POINT	LB = SURVEYING AND MAPPING BUSINESS
PB = PLAT BOOK	C.B.S. = CONCRETE BLOCK & STUCCO	BM = BENCHMARK
PC = PAGE	FD = FOUND	NGVD = NATIONAL GEODETIC VERTICAL DATUM
R/W = RIGHT-OF-WAY	W/ = WITH	R = RADIUS
C/L = CENTER LINE	A/C = AIR CONDITIONING	L = LENGTH
BOC = BACK OF CURB	COR = CORNER	Δ = DELTA
EOP = EDGE OF PAVEMENT	S.R. = STATE ROAD	CB = CHORD BEARING
CONC. = CONCRETE	C.R. = COUNTY ROAD	C = CHORD

FB XXXX, PG XXXX

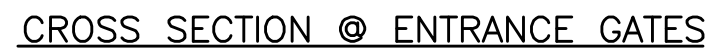
FLORIDA POWER & LIGHT CO.
MANATEE
POWER PLANT
SECTION 18, TOWNSHIP 33 SOUTH, RANGE 20 EAST
MANATEE COUNTY, FLORIDA

JOHNSON
ENGINEERING

2122 JOHNSON STREET
P.O. BOX 1550
FORT MYERS, FLORIDA 33902-1550
PHONE: (239) 334-0046
FAX: (239) 334-3661
E.B. #642 & L.B. #642

SPECIFIC PURPOSE SURVEY
MANATEE UNIT NO. 3 CT YARD

DATE	PROJECT NO.	FILE NO.	SCALE	SHEET
5/22/15	20139333-047	18-33-20	As Shown	9 OF 13



1. *Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt Fence shall be in accordance with Chart I, Sheet I.*
2. *Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.*
3. *Do not construct silt fences across permanent flowing water courses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.*
4. *Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.*
5. *Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).*

[illegible]

MANATEE CT YARD
CIVIL DETAILS

SHEET 10 OF 13
E-MAN CD
CADD

A.H. EZAZI, P.E.
FLA. REG. #40109
ENGINEER'S SEAL