

## GENERAL NOTES:

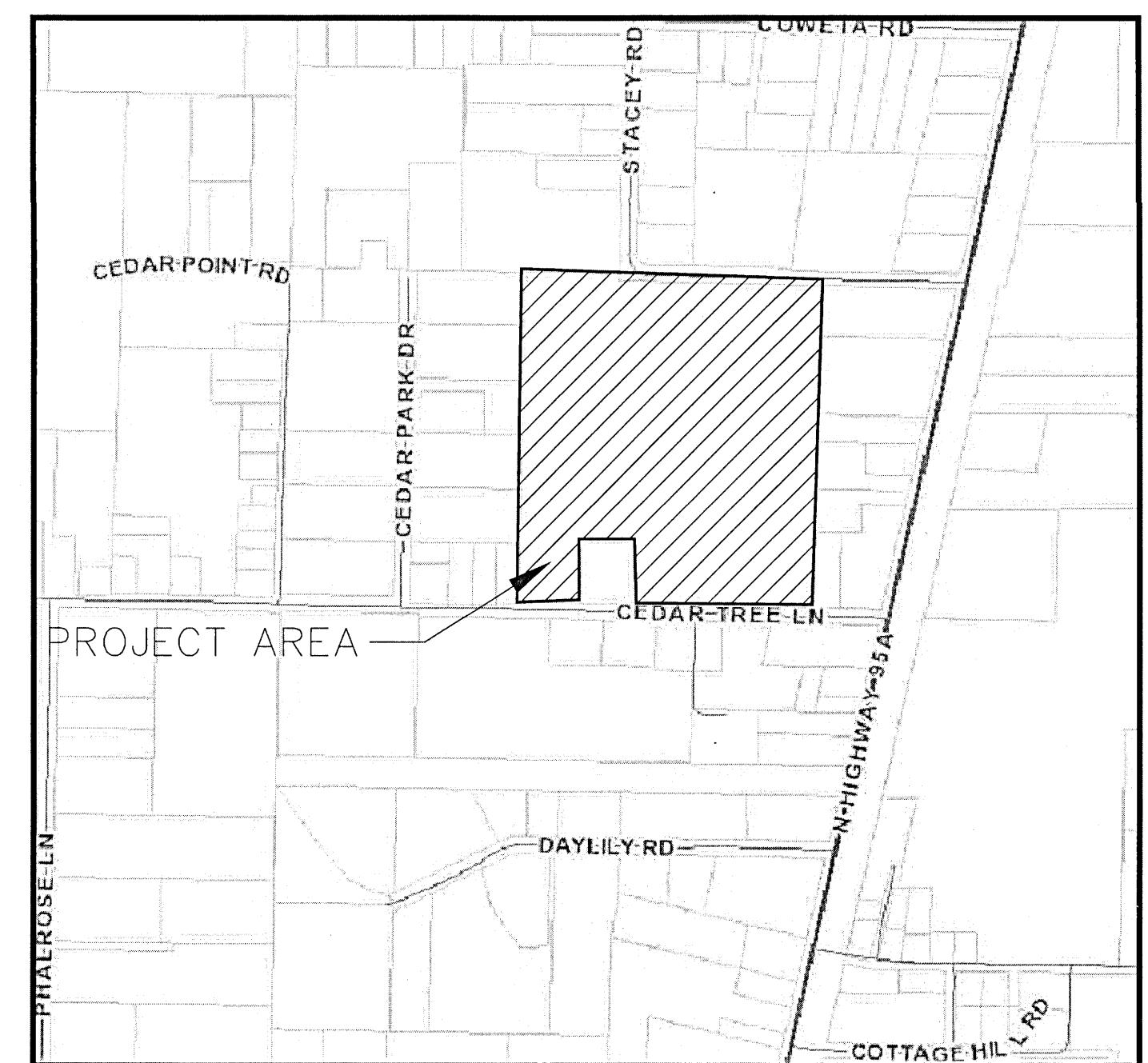
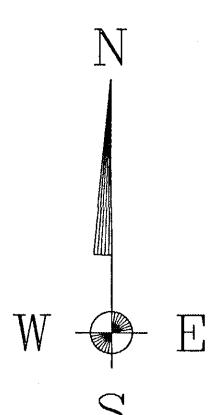
1. CONTRACTOR SHALL NOTIFY ESCAMBIA COUNTY ENGINEER 48 HOURS PRIOR TO COMMENCEMENT OF THIS PROJECT.
  2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WIPE OUT OR ADJUST THE CROWN WHERE SO NOTED BY THE ENGINEER AND/OR REQUIRED FOR POSITIVE DRAINAGE.
  3. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS, DRAINS, WATER, OR GAS PIPES, CONDUITS, RAILROAD TRACK, PCLES, WALLS, POSTS, BRIDGES, ETC., ARE TO BE CAREFULLY PROTECTED AND ARE NOT TO BE DISPLACED, UNLESS NOTED.
  4. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, AND POWER COMPANIES 10 DAYS IN ADVANCE, THAT HE INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, OR RIGHT-OF-WAY.
  5. LOCATION OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION BEFORE CONSTRUCTION. FAILURE OF THE PLANS TO SHOW THE EXISTENCE OF ANY UNDERGROUND UTILITIES, STRUCTURES, ETC., SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PRESERVING AND PROTECTING SAID UTILITY OR STRUCTURES.
  6. CONTRACTOR SHALL DISPOSE OF BY HAULING AWAY ALL EXCESS MATERIAL.
  7. THE DEVELOPER/CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUERED BY THE STATE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATIONS. CONTROL OF SEDIMENTATION AND EROSION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MEASURES OF CONTROL AND TYPICAL SECTION OF BARRIER ARE SUGGESTIONS ONLY AND DOES NOT RELIEVE THE CONTRACTOR OF ANY OF HIS RESPONSIBILITY.
  8. WHERE UNSUITABLE MATERIALS ARE ENCOUNTERED IN THE PAVED AREAS, THE UNSUITABLE MATERIAL SHALL BE EXCAVATED AND THE AREA BACK FILLED WITH GOOD SAND AND SAND/CLAY MATERIALS. THE SAME SHALL APPLY WHERE THE SUB-BASE IS SUBJECT TO RISING WATER TABLE.
  9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILIZATION OF STREET AND ROAD SHOULDERS IN ACCORDANCE WITH REQUIREMENTS OF ESCAMBIA COUNTY L.D.C. AND F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
  10. WATER SUPPLY FACILITIES, INCLUDING MAINS, SHALL BE INSTALLED, CLEANED, DISINFECTED, AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS AND COORDINATED WITH LOCAL UTILITY ENGINEER/INSPECTOR IN ACCORDANCE WITH ECUA'S STANDARDS.
  11. CONTRACTOR SHALL BE RESPONSIBLE FOR AND COMPLY WITH ANY TESTING REQUIRED BY THE LOCAL GOVERNING AGENCY IN ADDITION TO THE TESTING REQUIREMENTS OUTLINED IN THE SPECIFICATION.
  12. PROTECTED TREES CAN BE REMOVED WITHIN THE INFRASTRUCTURE AREAS ONLY UPON APPROVED CONSTRUCTION PLANS FOR THE SUBDIVISION AND POSSIBLY OTHER PERMIT (PRE-SITE THROUGH BID, ETC.). HOWEVER, THE RESIDENTIAL LOTS AND THE LAND IN GENERAL WILL NEED TO RETAIN LEGATED TREES (INCLUDED) AND UNDISTURBED (NOT "LAND DISTURBANCE ACTIVITIES" INCLUDING FILL MATERIALS PLACED ON SITE, ETC.) UNLESS SUBMITTED AS PART OF THE SUBDIVISION PLANS. THE "TOD" (TOD) CONSTRUCTION AREA (THE AREA WHICH ARE TO REMAIN SHALL BE AWAY FROM THE TREE IN A MANNER TO CAUSE NO DAMAGE TO THE TREE, THE CRITICAL ROOT ZONE (CRZ) SHALL NOT BE DISTURBED. THE CRZ IS REPRESENTED BY A CIRCLE, CENTERED ON THE TREE TRUNK AND HAVING A RADIUS OF ONE FOOT FOR EVERY ONE INCH OF TRUNK DIAMETER. NO HERITAGE TREES WERE FOUND ON SITE.
  13. SOD SHALL BE PLACE IN ACCORDANCE WITH SEC. 570 F.D.O.T. SPECIFICATIONS.
  14. PIPELINE CONTRACTOR SHALL BE RESPONSIBLE FOR INLET TOPS AND THROATS.
  15. NOTIFY COUNTY ENGINEER 24 HOURS BEFORE BEGINNING EVERY PHASE OF CONSTRUCTION.
  16. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW ACTUAL CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.
  17. ALL PROPOSED UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED PRIOR TO PAVING. NO STREETS UNDER THE TWO YEAR WARRANTY WILL BE ALLOWED TO BE OPEN-CUT OR JACK AND BORED. TO ACCOMPLISH THIS REQUIREMENT, COMMON TRENCHING IS REQUIRED. IF COMMON TRENCHING IS NOT A FEASIBLE OPTION, THE DEVELOPER SHALL INSTALL CONDUIT FOR THE UTILITY NOT PARTICIPATING IN THE COMMON TRENCHING FOR ALL ROAD CROSSINGS AND THE UTILITY COMPANY WILL BE REQUIRED TO USE THE CONDUIT. THIS SHALL REQUIRE PLANNING BETWEEN THE DEVELOPER AND THE UTILITY.
  18. ROUGH GRADING OF RIGHT OF WAY MUST BE ESTABLISHED PRIOR TO COMMON TRENCH UTILITY INSTALLATION TO ENSURE UTILITIES ARE INSTALLED AT PROPER DEPTHS. A MINIMUM OF 30" OF COVER IS REQUIRED OVER ALL UTILITIES. THIS DIMENSION SHALL BE MEASURED FROM PROPOSED GRADE IF ROAD IS IN FILL AND MEASURED FROM TOP OF CURB IF ROAD IS IN CUT.
  19. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AT LEAST 2 WEEKS PRIOR TO PLACEMENT OF BASE MATERIAL TO ASSIST IN COORDINATION OF ALL OTHER UNDERGROUND UTILITIES.
  20. ON SITES >1 ACRE, IF >1 CONTIGUOUS ACRE IS CLEARED, A GROUND COVER SUFFICIENT TO PREVENT EROSION SHOULD BE PLANTED OR OTHERWISE STABILIZED WITHIN 10 WORKING DAYS ON THAT PORTION OF THE SITE UPON WHICH FURTHER ACTIVE CONSTRUCTION WILL NOT BE UNDERTAKEN WITHIN 90 DAYS.
  21. THE PROJECT ENGINEER (ENGINEER OF RECORD) SHALL PROVIDE TO ESCAMBIA COUNTY "ASBUILT" RECORD DRAWINGS FOR VERIFICATION AND APPROVAL BY ESCAMBIA COUNTY ONE WEEK PRIOR TO REQUEST A FINAL INSPECTION, OR PROVIDE ASBUILT CERTIFICATION THAT THE PROJECT CONSTRUCTION ADHERES TO THE PERMITTED PLANS AND SPECIFICATIONS. THE ASBUILT CERTIFICATION OR THE ASBUILT RECORD DRAWINGS MUST BE SIGNED AND SEALED AND DATED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER.
  22. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH SEEDING, FERTILIZER AND MULCH, HYDROSEED AND/ OR SOD. SEDED AREAS SHALL INCLUDE A BAHIA MIX TO ENSURE CONTINUED GROWTH AFTER WINTER MONTHS IN ACCORDANCE WITH FDOT SECTION 570 AND STANDARD INDEX 105.
  23. THE OWNER OR HIS AGENT SHALL ARRANGE/ SCHEDULE WITH HE COUNTY A FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS AT (850) 595-3472. ASBUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/ APPROVAL.
  24. ALL ASPECTS OF THE STORMWATER/ DRAINAGE COMPONENTS AND OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO REQUESTING A FINAL INSPECTION.
  25. NO DEVIATION OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER, ESCAMBIA COUNTY, AND ECUA. ANY DEVIATIONS MAY RESULT IN DELAYS IN COUNTY ACCEPTANCE OF IMPROVEMENTS.
  26. DENSITY TESTS AND CORE SAMPLES WILL BE REQUIRED TO DEMONSTRATE COMPLIANCE WITH COUNTY STANDARDS PRIOR TO FINAL ACCEPTANCE OF ROADWAY IMPROVEMENTS.
  27. TO COMPLY WITH NFDES REQUIREMENTS, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH 1/2" RAINFALL EVENT OR AT LEAST WEEKLY. THE CONTRACTOR SHALL DOCUMENT SUCH INSPECTIONS AND EROSION CONTROL MAINTENANCE EFFORTS; INSPECTION RECORDS SHALL BE PROVIDED TO THE NFDES PERMIT APPLICANT FOR PROPER REPORTING TO FDEP.
  28. NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W. 1-800-432-4770
  29. ECUA INSPECTOR OR AUTHORIZED REPRESENTATIVE MUST OBSERVE ALL CONNECTIONS TO ECUA'S EXISTING WATER AND SANITARY SEWER SYSTEMS.
  30. TYPE 1 CURB CUT DRIVEWAYS ARE TO BE USED FOR ALL UTILITY ACCESS POINTS.
  31. ELECTRIC/PHONE/CABLE/GAS STRUCTURES INSTALLED WITHIN DRAINAGE ACCESS EASEMENTS SHALL BE LOCATED ALONG THE BOUNDARY OF THE EASEMENT TO MAXIMIZE CLEAR ACCESS FOR MAINTENANCE EQUIPMENT.
  32. THE SUBGRADE IS TO BE TESTED FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 300 LINEAR FEET IN THE PROPOSED ROADWAY AREAS. COMPACTION TESTS WITHIN THE FILL/BACKFILL AREAS ARE TO BE PERFORMED AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 300 LINEAR FEET.
  33. ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED WITH FABRIC/FLOOR.
  34. A HEALTHY GROWTH OF GRASS WITHIN DISTURBED RIGHT-OF-WAY AREAS IS REQUIRED PRIOR TO COUNTY APPROVAL /ACCEPTANCE. IF TIME CONTRACTS EXIST DURING THE FINAL PLAT APPROVAL AND ACCEPTANCE PROCESS, A MINIMUM OF TWO STRIPS OF SOD (MINIMUM 2' WIDE) BEHIND THE BACK OF CURB WITH ALL OTHER DISTURBED AREAS SEADED /MULCHED/BLND WILL BE ACCEPTABLE.
  35. SAC FILTERS IN CURB THROATS ARE NOT AN ALLOWABLE SEDIMENT CONTROL METHOD.
  36. A MINIMUM ONE (1) FOOT GROUND COVER IS REQUIRED FOR ALL UNDERGROUND PIPES.
  37. THE CONTRACTOR SHALL NOTIFY FDOT 48 HOURS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHTS-OF-WAY.
  38. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
  39. DEVELOPER/CONTRACTOR/HOME OWNERS ASSOCIATION SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND AT THE END OF THE 2 YEAR WARRANTY PERIOD.
  40. WORK PROPOSED NEXT TO THE R/W WITH EXISTING SWALE SYSTEMS MAY REQUIRE ADDITIONAL PROVISIONS TO REPAIR/RESTORE EXISTING DRAINAGE SWALES AS NEEDED TO ENSURE ADEQUATE DRAINAGE. R/W SHOULDER STABILIZATION SHOULD BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
  41. FORCEMAN LOCATED IN THE COUNTY R/W SHALL BE MAINTAINED BY ECUA
- LEGAL DESCRIPTION:**  
A PARCEL OF LAND LYING IN SECTION 35, TOWNSHIP 2 NORTH, RANGE 31 WEST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
COMMENCE AT A FOUND 1 1/4 INCH IRON PIPE MARKING THE SOUTHWEST CORNER OF SECTION 35, TOWNSHIP 2 NORTH, RANGE 31 WEST, LYING NORTH 87 DEGREES 10 MINUTES 27 SECONDS WEST, A DISTANCE OF 5306.39 FEET TO A FOUND 4 INCH SQUARE CONCRETE MONUMENT MARKING THE SOUTHEAST CORNER OF SECTION 35, FROM SAID POINT OF COMMENCEMENT, A DISTANCE OF 35 FEET 30 INCHES SOUTH, A DISTANCE OF 52 FEET 5 INCHES WEST, A DISTANCE OF 57 SECONDS EAST, A DISTANCE OF 92.84 FEET; THENCE LEAVING SAID SOUTH LINE, RUN NORTH 02 DEGREES 42 MINUTES 42 SECONDS EAST, A DISTANCE OF 33.34 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908 ON THE NORTH RIGHT OF WAY LINE OF CEDAR TREE LANE (RIGHT OF WAY LINES); THENCE LEAVING SAID NORTH LINE, ALONG SAID WEST RIGHT OF WAY LINE, RUN SOUTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 32.95 FEET TO A FOUND 1/2 INCH IRON ROD AND CAP STAMPED LS 4082 WALTERS ON THE SOUTH RIGHT OF WAY LINE; THENCE ALONG SAID SOUTH RIGHT OF WAY LINE, RUN SOUTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 170.00 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; THENCE NORTH 02 DEGREES 57 MINUTES 43 SECONDS EAST, A DISTANCE OF 19.45 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; THENCE NORTH 02 DEGREES 57 MINUTES 43 SECONDS EAST, A DISTANCE OF 138.72 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; MARKING THE SOUTHEAST CORNER OF THE PARCEL OF LAND DESCRIBED IN OFFICIAL RECORDS BOOK 7557, PAGE 1935; THENCE LEAVING SAID SOUTH RIGHT OF WAY LINE, RUN SOUTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 399.15 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; THENCE NORTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 14.5 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; THENCE NORTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 170.00 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; THENCE NORTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 19.45 FEET TO A SET 5/8 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908; THENCE NORTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 226.38 FEET TO A FOUND 1/2 INCH IRON ROD AND CAP STAMPED SAM LLC LB 7908 ON THE NORTH RIGHT OF WAY LINE OF CEDAR TREE LANE; THENCE ALONG SAID NORTH RIGHT OF WAY LINE, RUN NORTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 207.17 FEET TO A FOUND 1 INCH IRON PIPE MARKING THE SOUTHEAST CORNER OF SAID PARCEL; THENCE LEAVING SAID NORTH RIGHT OF WAY LINE, RUN NORTH 02 DEGREES 42 MINUTES 42 SECONDS WEST, A DISTANCE OF 237.78 FEET TO THE POINT OF BEGINNING, CONTAINING 32.44 ACRES, MORE OR LESS.

## CONSTRUCTION PLANS FOR

# Pecan Valley

A 103 LOT SINGLE FAMILY RESIDENTIAL SUBDIVISION IN A PORTION OF SECTION 35, TOWNSHIP 2 NORTH, RANGE 31, ESCAMBIA COUNTY, FLORIDA

July 2021  
ZONED: LDR FLU: MU-S



VICINITY MAP

N.T.S.

OWNER AND DEVELOPER  
GARDEN STREET COMMUNITIES SOUTHEAST, LLC

3000 GULF BREEZE PARKWAY  
GULF BREEZE, FL 32563  
PHONE: (850) 934-0470

### ENGINEER-OF-RECORD

DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, PA  
10250 N. PALAFOX HWY.  
PENSACOLA, FL 32534  
PHONE: (850) 476-8677  
FAX: (850) 476-7708  
FITZPATRICK@FITZENG.COM

### SURVEYOR

SAM SURVEYING & MAPPING, LLC

600 UNIVERSITY OFFICE BLVD., SUITE #17-B

PENSACOLA, FL 32504

LB#7908

P: (850)857-7725  
F: (850)857-7726

CONTRACTOR SHALL NOTIFY SUNSHINE 811 48 HOURS PRIOR TO COMMENCING CONSTRUCTION 1-800-432-4770

GULF POWER CO. ~ 429-2603

AT&T ~ 436-1489

ECUA ~ 969-5823

PENSACOLA ENERGY ~ 474-5309

COTTAGE HILL WATER WORKS ~ 968-5485

### PERMIT SET

NOT RELEASED FOR CONSTRUCTION

PLOT DATE: 07/19/2021

### ECUA Engineering Manual Reference Note\*

\*note shall be inserted in the upper right corner of title sheet

\* applicable only to ECUA infrastructure to be constructed in public ROW or in utility easement; not to be applied to private water/sewer facilities on private property (see Building Code)

### ECUA Engineering Manual Incorporated by Reference

The ECUA Engineering Manual, dated December 18, 2014, along with Update # 1 dated September 1, 2016 (hereinafter "Manual"), located at [www.ecua.fl.gov](http://www.ecua.fl.gov), is hereby incorporated by reference into this Project's official contract documents as if fully set forth therein. It is the Contractor's responsibility to be knowledgeable of the Manual's contents and to construct the Project in accordance with the Manual. The Contractor shall provide its employees access to the Manual at all times, via Project site or office, via digital or paper format. In the event of a conflict between the Manual and Plans, Contractor shall consult Engineer of Record for proper resolution.

### B. Additional Documents (to be completed by the Engineer of Record)

Does this Project have additional technical specifications or construction details that supplement and/or supersede the Manual listed above?  YES  NO. If yes, Contractor shall construct Project in accordance with said documents as listed and located below:

Document Name	Document Type		Location	
	Specifi- cation	Detail		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*Project Manuals used only with ECUA CIP Projects

### C. Engineer of Record Responsibilities

The Engineers of Record (EORs) that have affixed their seals and signatures on these plans warrant their portions of the plans have been designed in accordance with the Manual (unless otherwise directed by the ECUA Project Engineer). The EORs shall be knowledgeable of the Manual's contents and shall assume responsibility for its use on this Project.

INDEX OF DRAWINGS				
SHEET				DESCRIPTION
1	COVER SHEET			
2	EXISTING CONDITIONS			
3	DIMENSION PLAN			
4	MASTER SITE/UTILITY PLAN			
5	SITE/UTILITY PLAN (NORTH)			
6	SITE/UTILITY PLAN (SOUTH)			
7	MASTER DRAINAGE PLAN			
8	DRAINAGE PLAN (NORTH)			
9	DRAINAGE PLAN (SOUTH)			
10	SUMMER PECAN DRIVE PLAN/PROFILE			

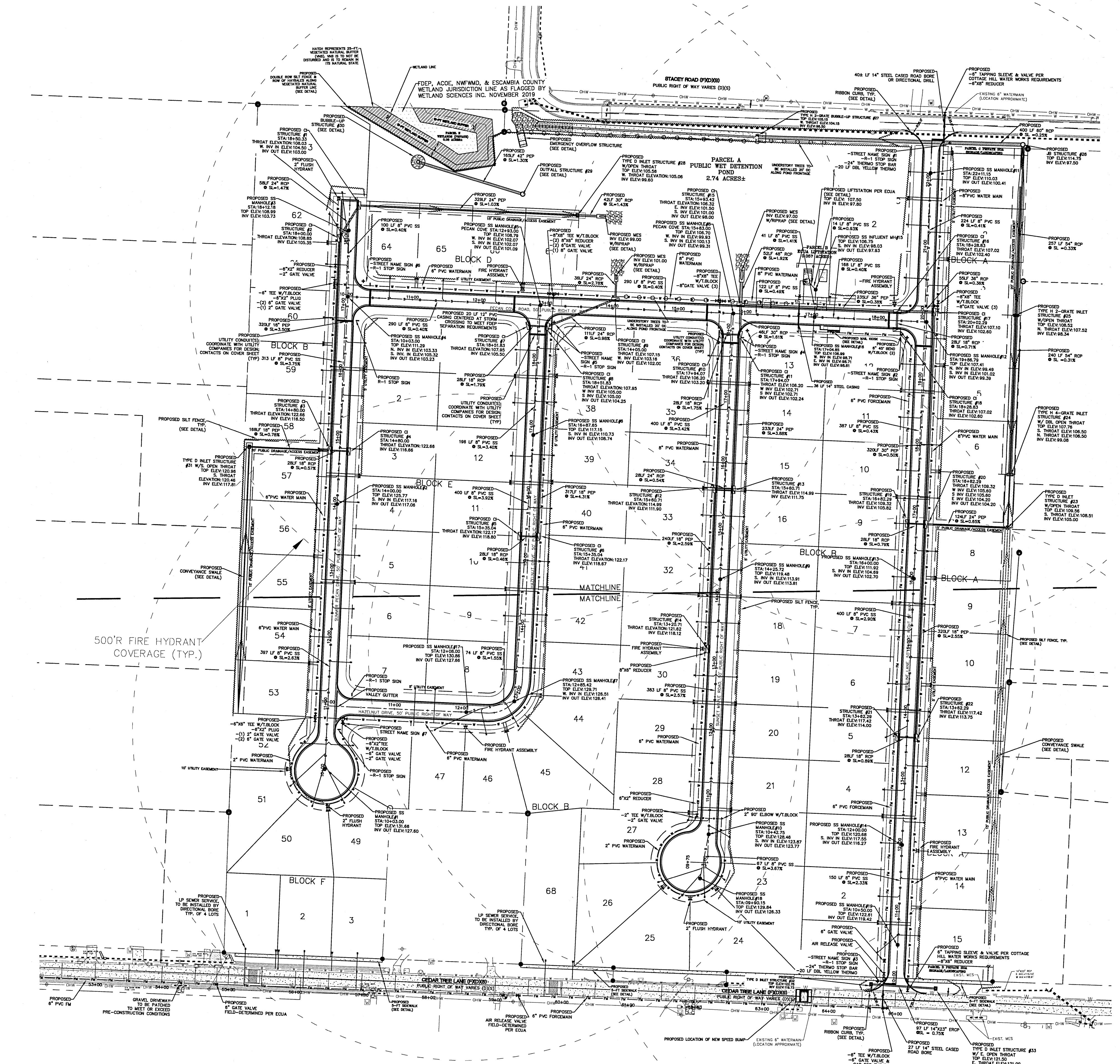
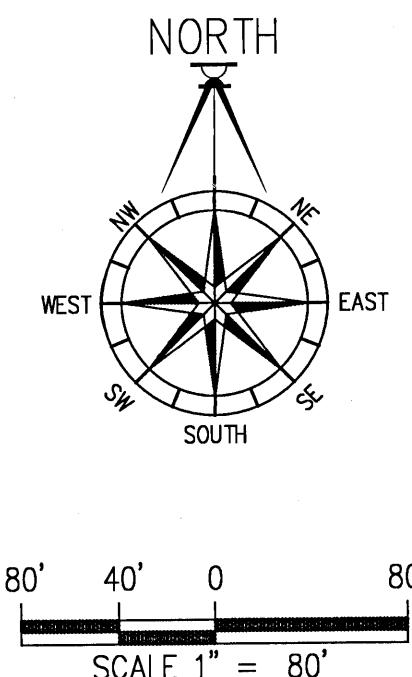
# PECAN VALLEY

## EXISTING CONDITIONS





ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL; ALL POTABLE WATER WORK SHALL BE CONSTRUCTURED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



# PECAN VALLEY

# PECAN VALLEY

**DAVID W. FLIZZARI**  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #000008423  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

DRAWN BY:  
B. PEMENT

DESIGNED BY:  
D. FITZPAT

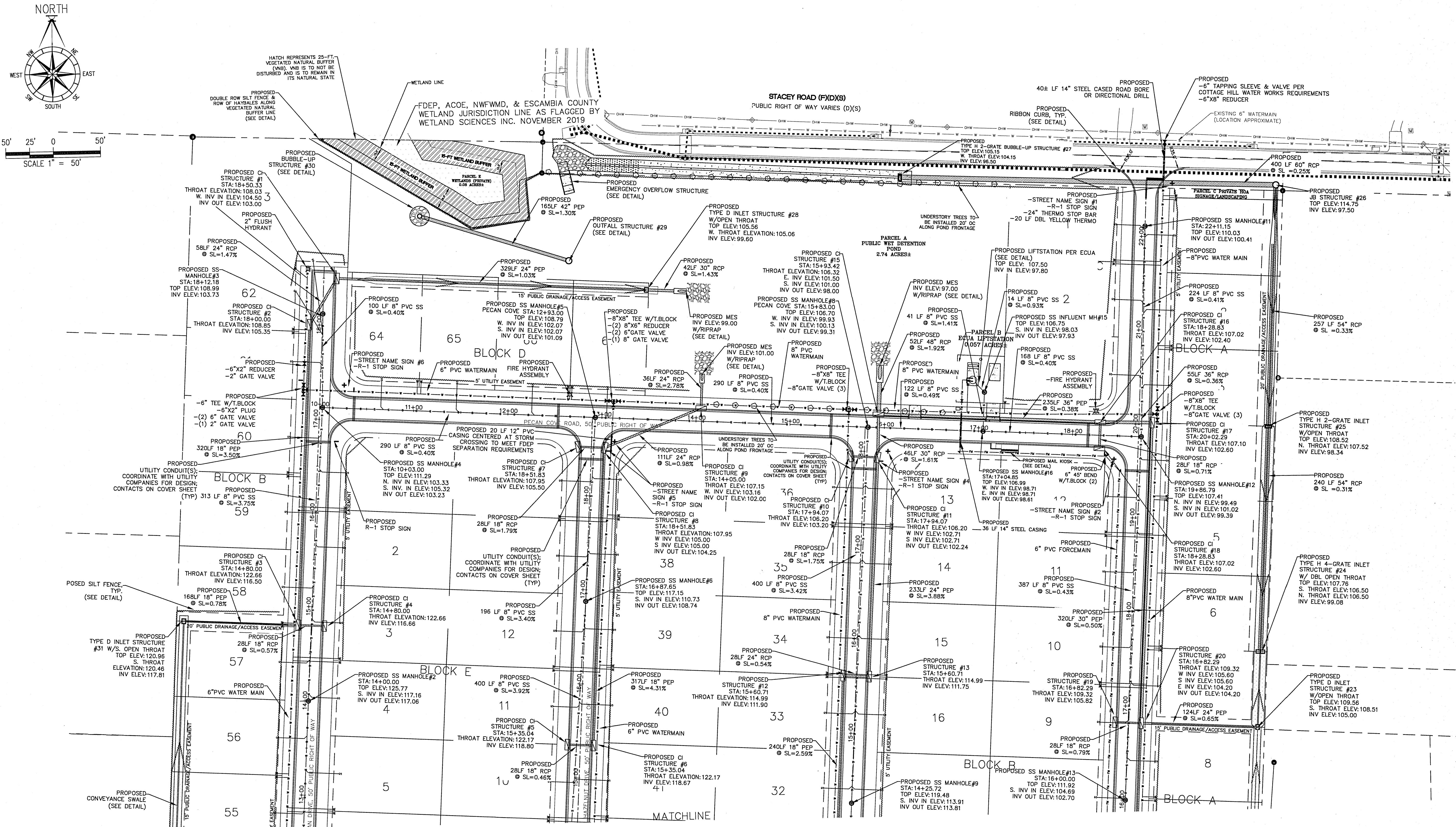
A circular dotted-line seal for a Florida Professional Engineer license. The outer ring contains the words "PROFESSIONAL ENGINEER" at the top and "FLORIDA" at the bottom. The inner circle contains "NO. A7818" at the top, "MICHAELE J. FITZPATRICK" in the center, "LICENSING BOARD" at the bottom, and "STATE OF FLORIDA" in the middle. There are two stars, one above the date and one below it.

PROJECT  
NUMBER 1  
PLOT 8

DATE \_\_\_\_\_  
SHEET C4

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ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL; ALL POTABLE WATER WORK SHALL BE CONSTRUCTURED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



# PECAN VALLEY

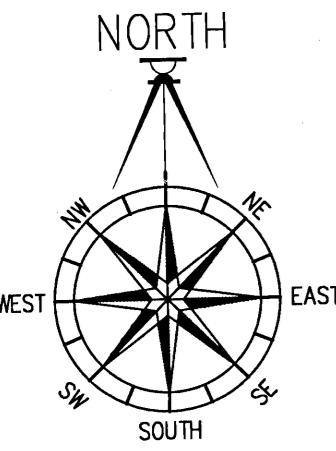
## SITE-UTILITY NORTH

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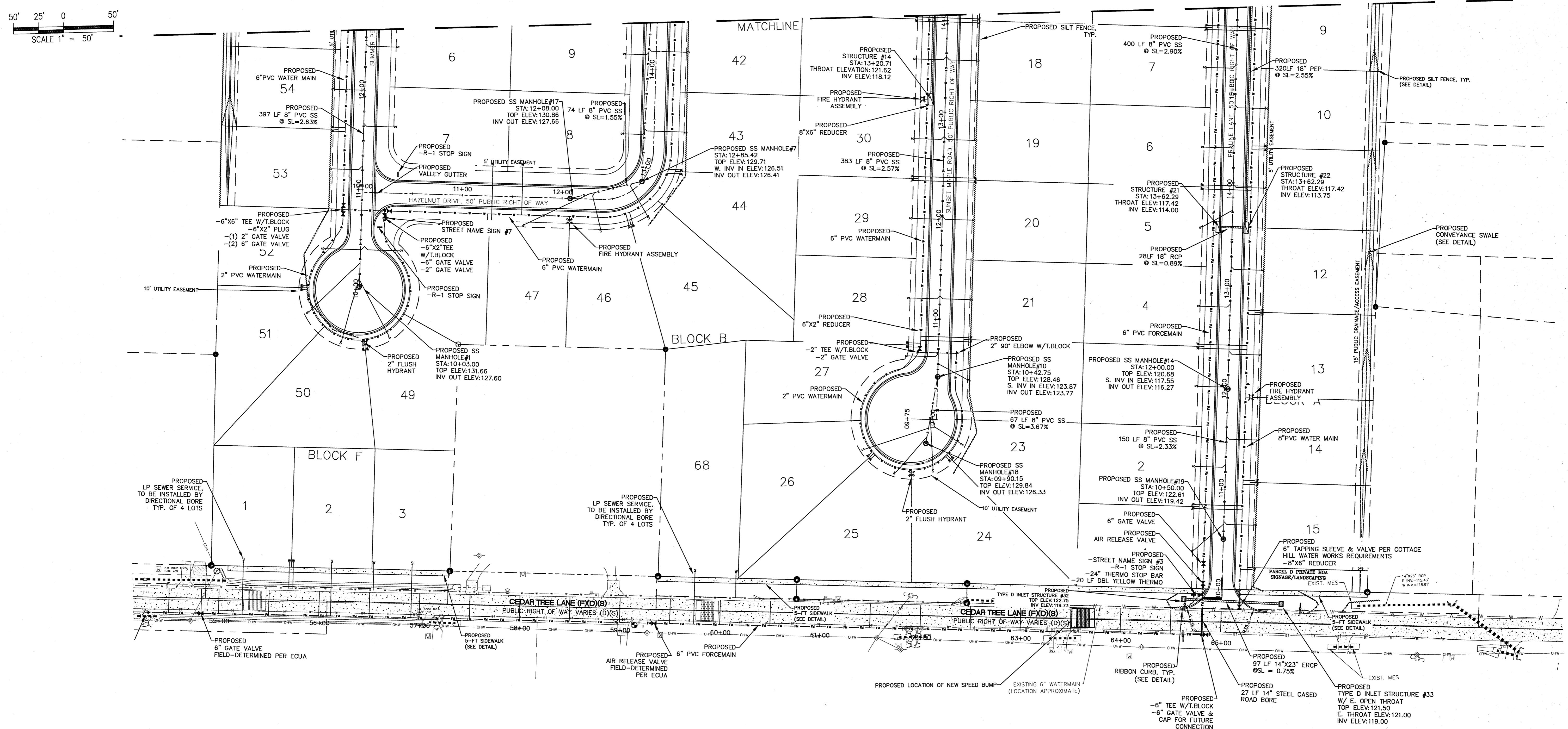
**PROFESSIONAL ENGINEER, P.A.**  
**BOARD OF PROFESSIONAL REGULATION #00000842:**  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
Ph: (850)476-8677 FAX: (850)476-7708

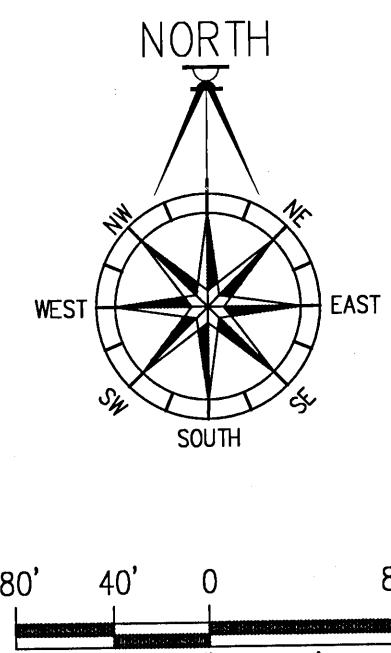
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DRAWN BY: B. PEMENT						
DESIGNED BY: D. FITZPATRICK						
PROJECT NUMBER 19-049						
LOT DATE 07/19/21						
SHEET C5 OF C42						



50' 25' 0 50'  
SCALE 1" = 50'





EXCAVATED MATERIAL NOTE:  
ANY SUITABLE EXCAVATED MATERIAL WILL BE STOCKPILED ON LOTS 12 & 13 OF  
BLOCK 'B'. STORAGE AREAS ARE TO BE PROTECTED BY A SILT FENCE BARRIER.  
ANY UNSUITABLE MATERIAL WILL BE HAULED OFFSITE TO AN APPROVED LAND FILL.

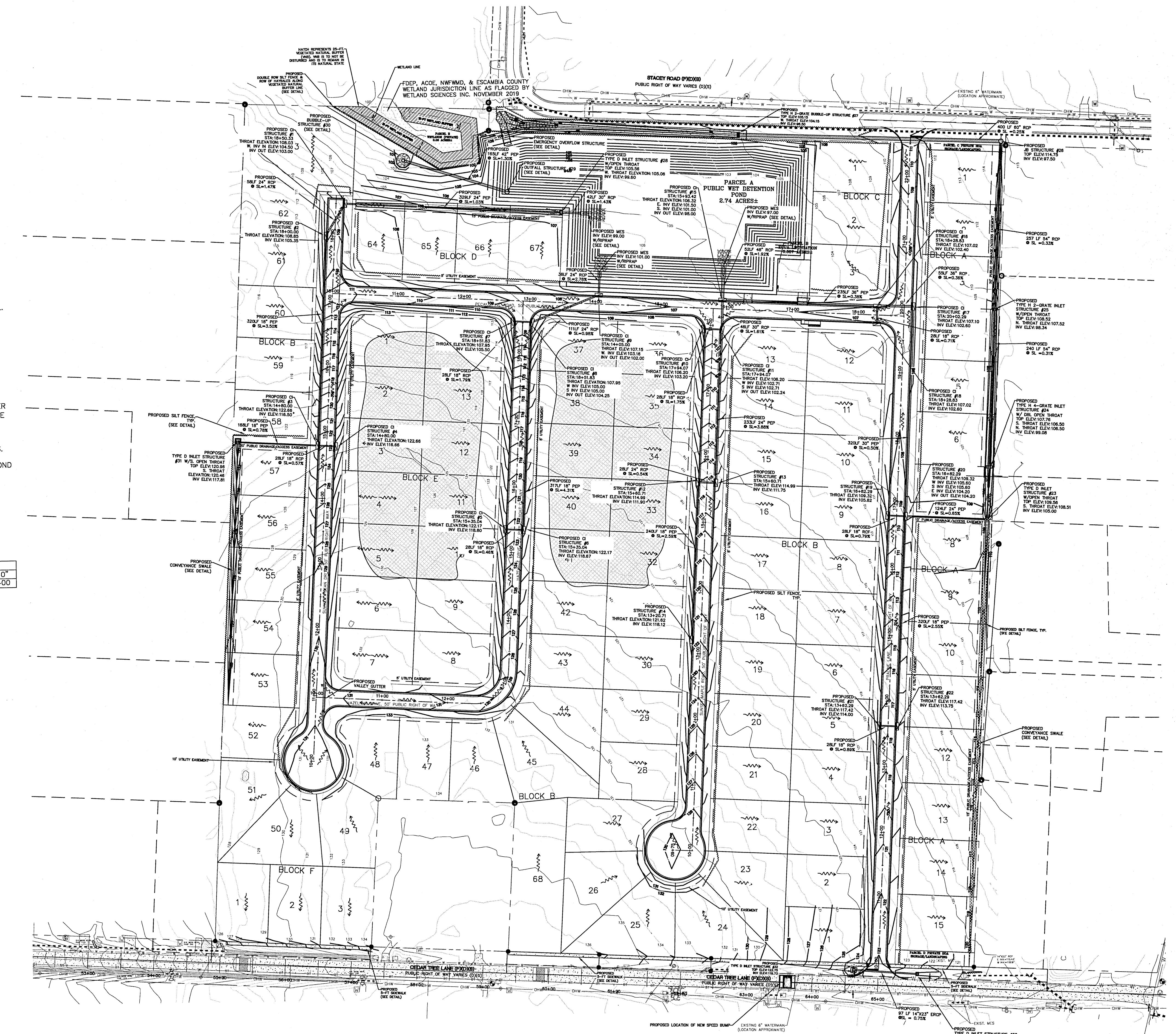
PRIVATE DRAINAGE EASEMENT NOTE:  
THERE IS A MINIMUM 5' PRIVATE DRAINAGE EASEMENT ALONG ALL COMMON LOT LINES (10' CUMULATIVE). HOME BUILDER IS TO CONSTRUCT DRAINAGE SWALES AS REQUIRED ALONG THESE EASEMENTS TO DIRECT WATER TO A STORM WATER CONVEYANCE SYSTEM AND NOT ACROSS NEIGHBORING LOTS.

EROSION CONTROL NOTES:

1. THE OWNER, VIA A CERTIFIED EROSION CONTROL SPECIALIST, WILL SUBMIT A CONSTRUCTION COMMENCEMENT NOTICE AT LEAST 48 HOURS PRIOR TO INITIATING CONSTRUCTION ACTIVITIES. UPON INITIATING CONSTRUCTION ACTIVITIES THE OWNER WILL IMMEDIATELY INSTALL ALL BMP'S AS SHOWN ON THE DRAINAGE PLAN BEFORE INITIATING ANY OTHER ACTIVITIES. THE OWNER, VIA THE ENGINEER OF RECORD, WILL SUBMIT AS-BUILT CERTIFICATION FOR THE PROJECT.
2. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
3. DEVELOPER/CONTRACTOR/HOME OWNERS ASSOCIATION SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND AT THE END OF THE 2 YEAR WARRANTY PERIOD.

DRAINAGE STRUCTURE CHART										
MANHOLES	INLETS	OUTFALL STRUC.	PIPE (FEET)							
			18"	24"	30"	36"	42"	48"	54"	60"
1	30	2	1,561	919	408	290	165	52	497	400

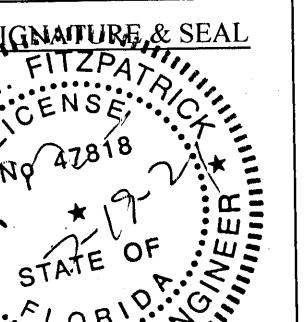
POND SYSTEM CHART			
OND REA	ACRES	LOTS IN POND SYSTEM	TOTAL LOTS
1,853	2.11	1-15, 'BLOCK A' 1-49, 53-61, & 62-67 'BLOCK B' 1-3 'BLOCK C'	
			97



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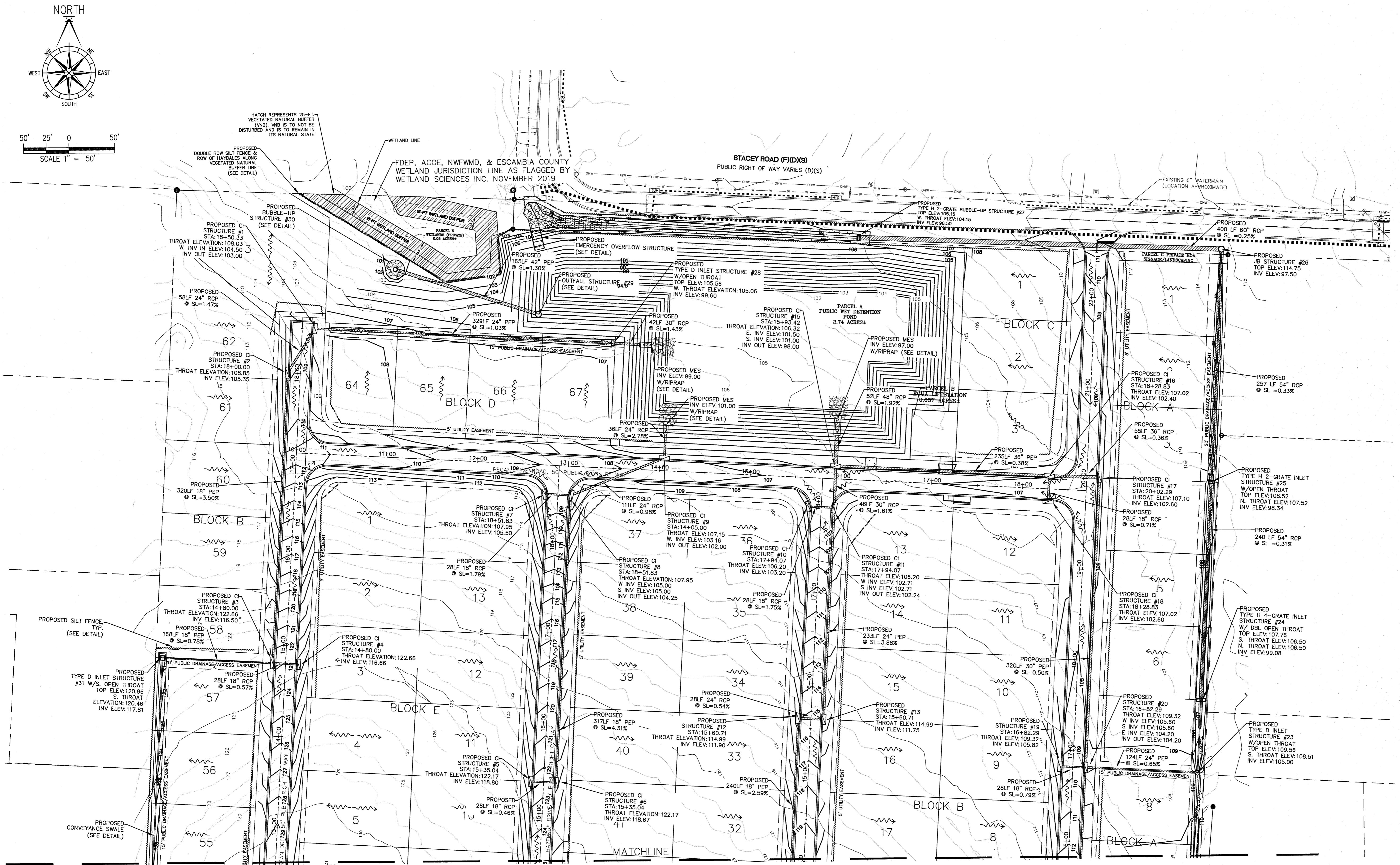
DRAWN BY: B. PEMENT
DESIGNED BY: D. FITZPATRICK



PROJECT NUMBER	19-049
DATE	07/19/21
SEET	C7 OF C42

# PECAN VALLEY

SITE-DRAINAGE NORTH

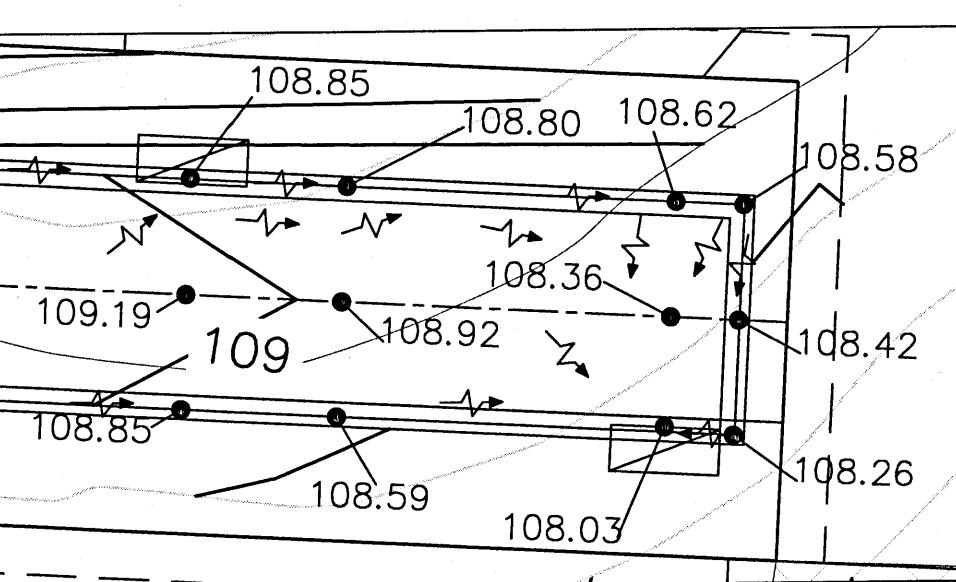
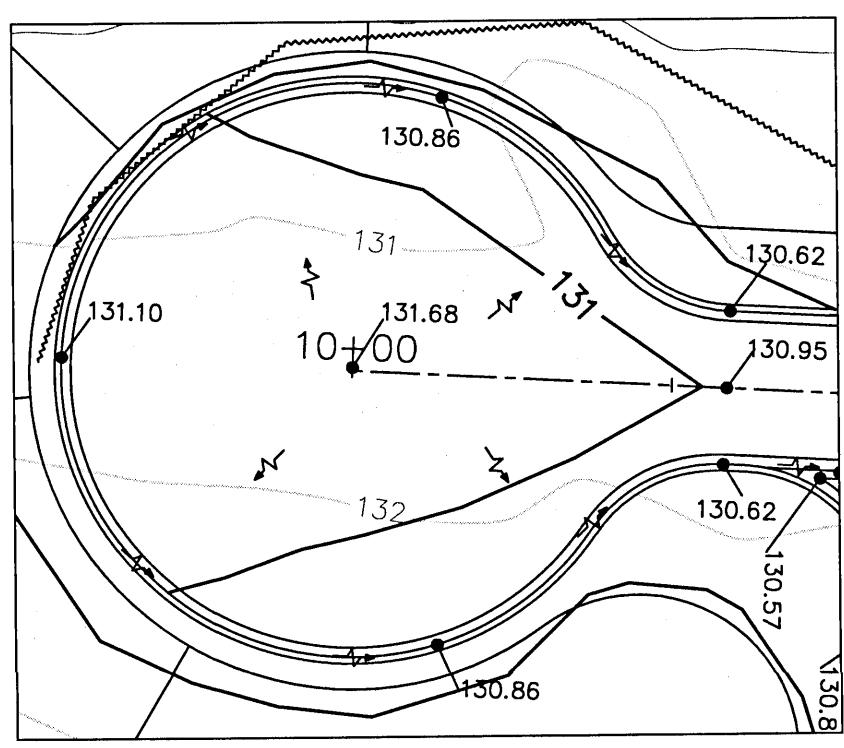
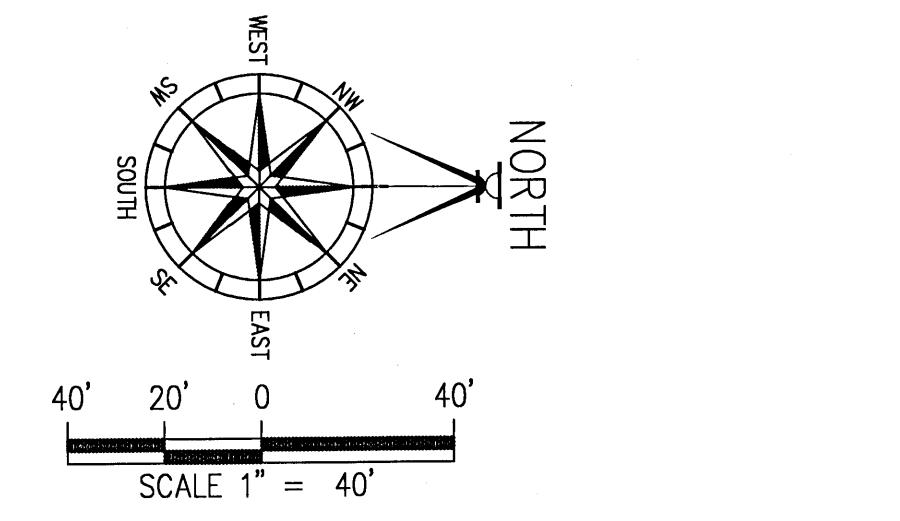


NUMBER	REVISON	DATE
DRAWN BY:		
B. PEMENT		
DESIGNED BY:		
D. FITZPATRICK		
SIGNATURE & SEAL		
DRAWN BY: D. FITZPATRICK DESIGNED BY: B. PEMENT DATE: 07/19/21 PROJECT NUMBER: 19-049 PLOT DATE: 07/19/21 SHEET C8 OF C42		

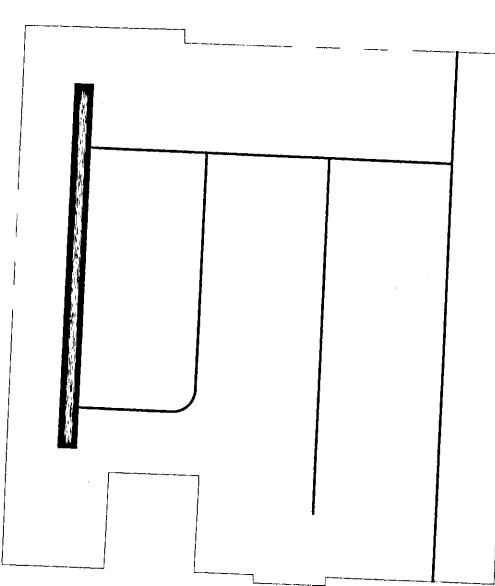


## PECAN VALLEY

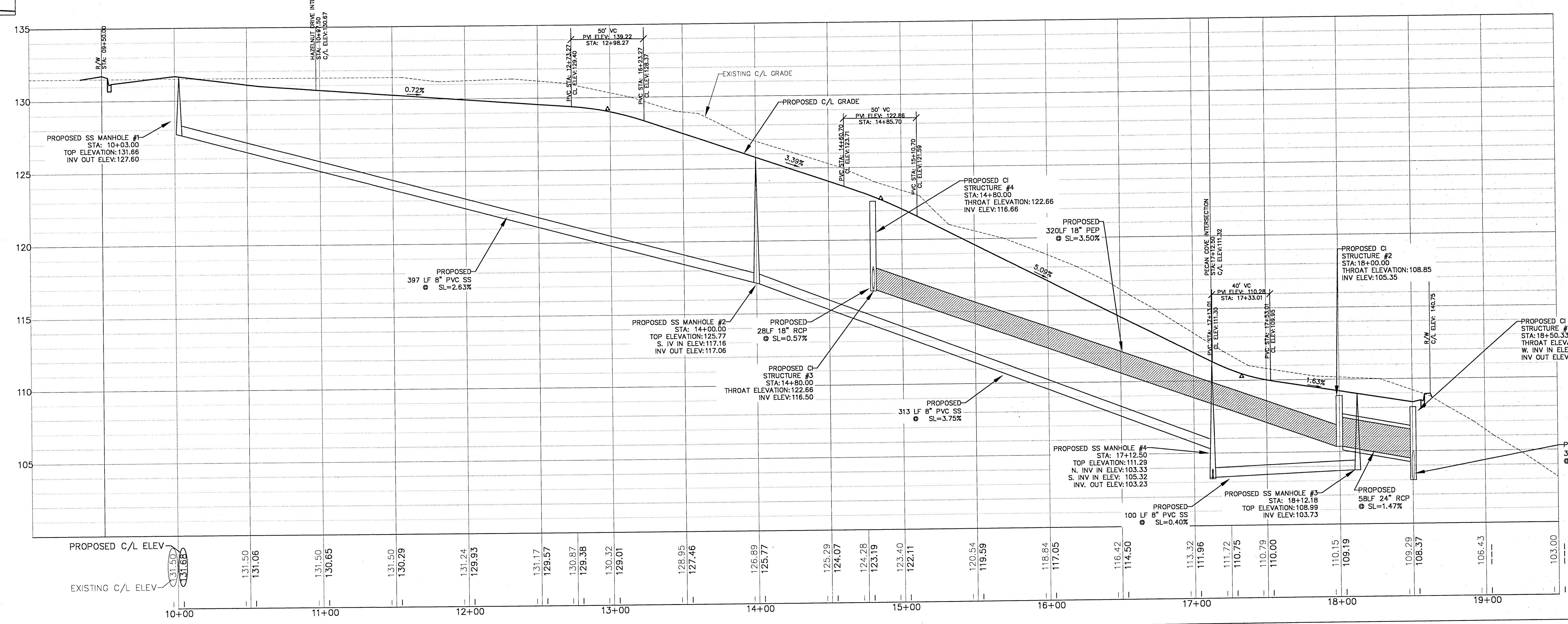
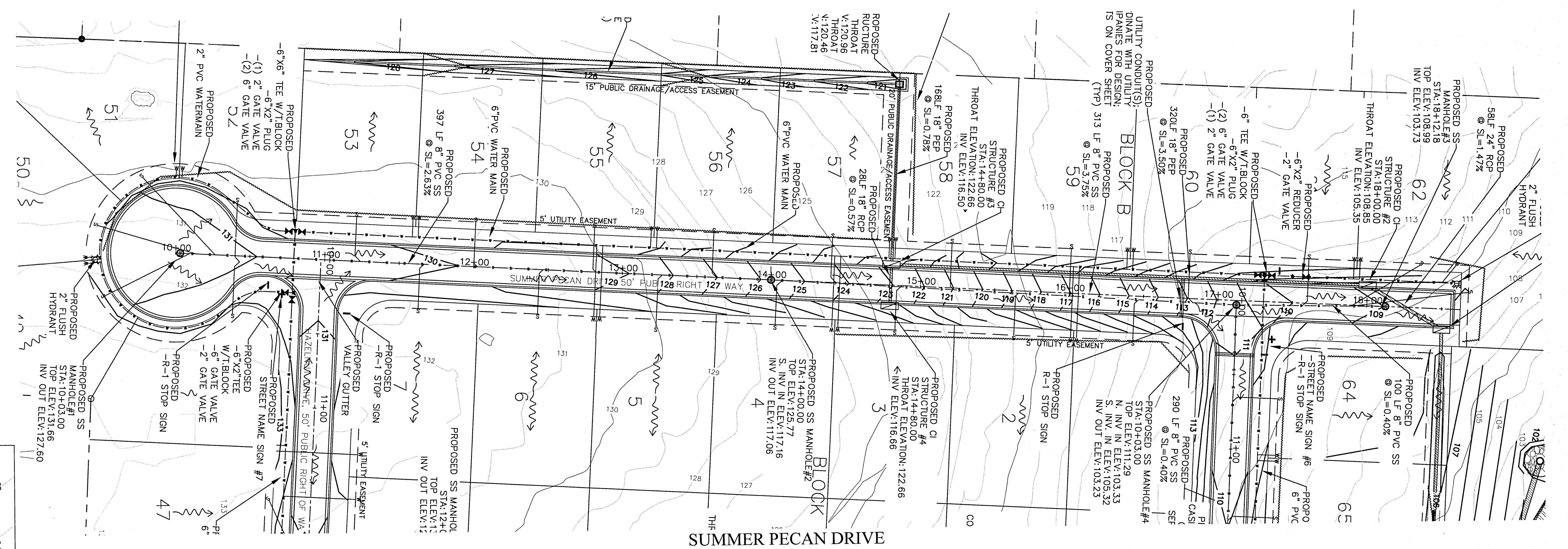
SUMMER PECAN DRIVE PLAN/PROFILE



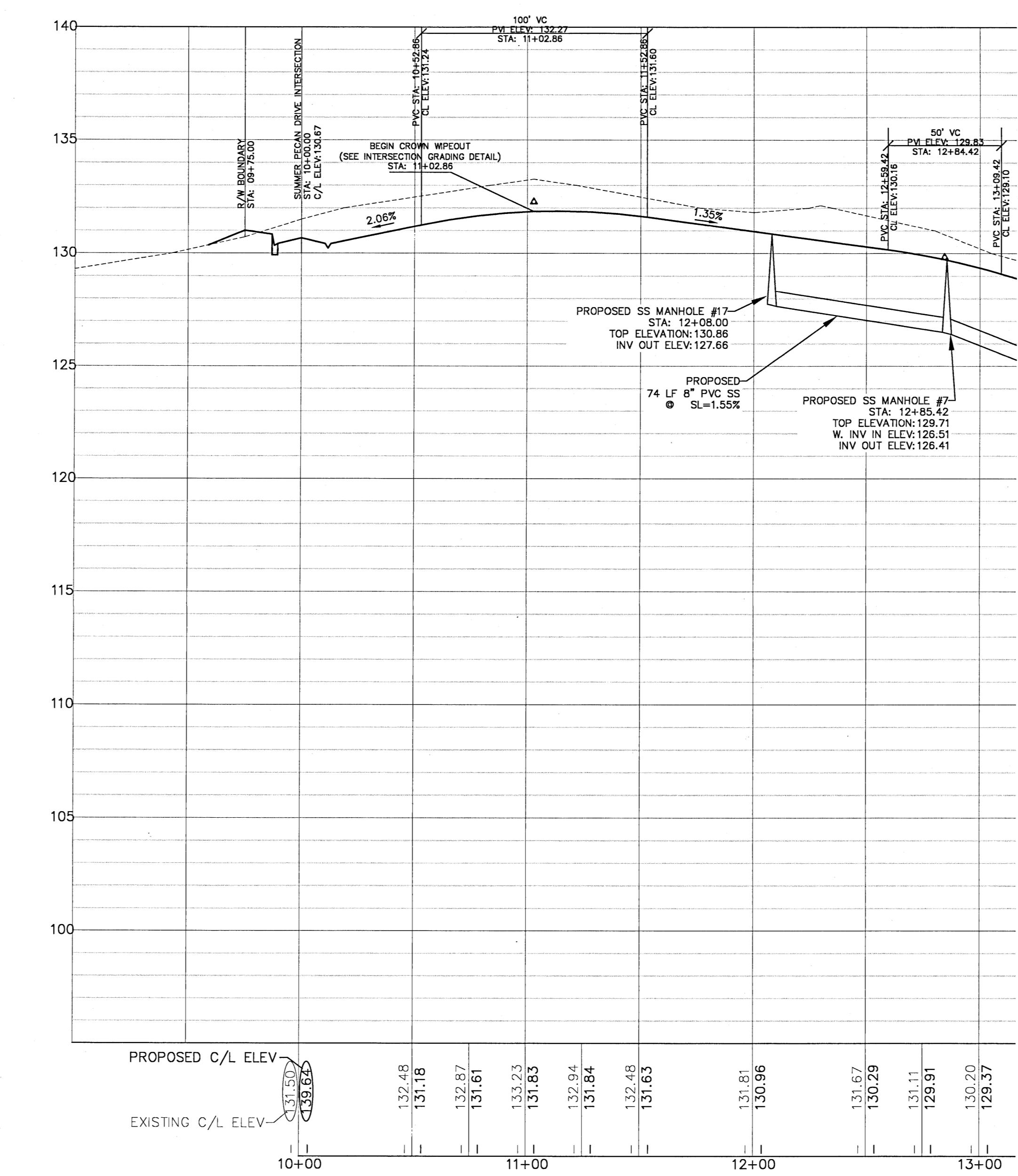
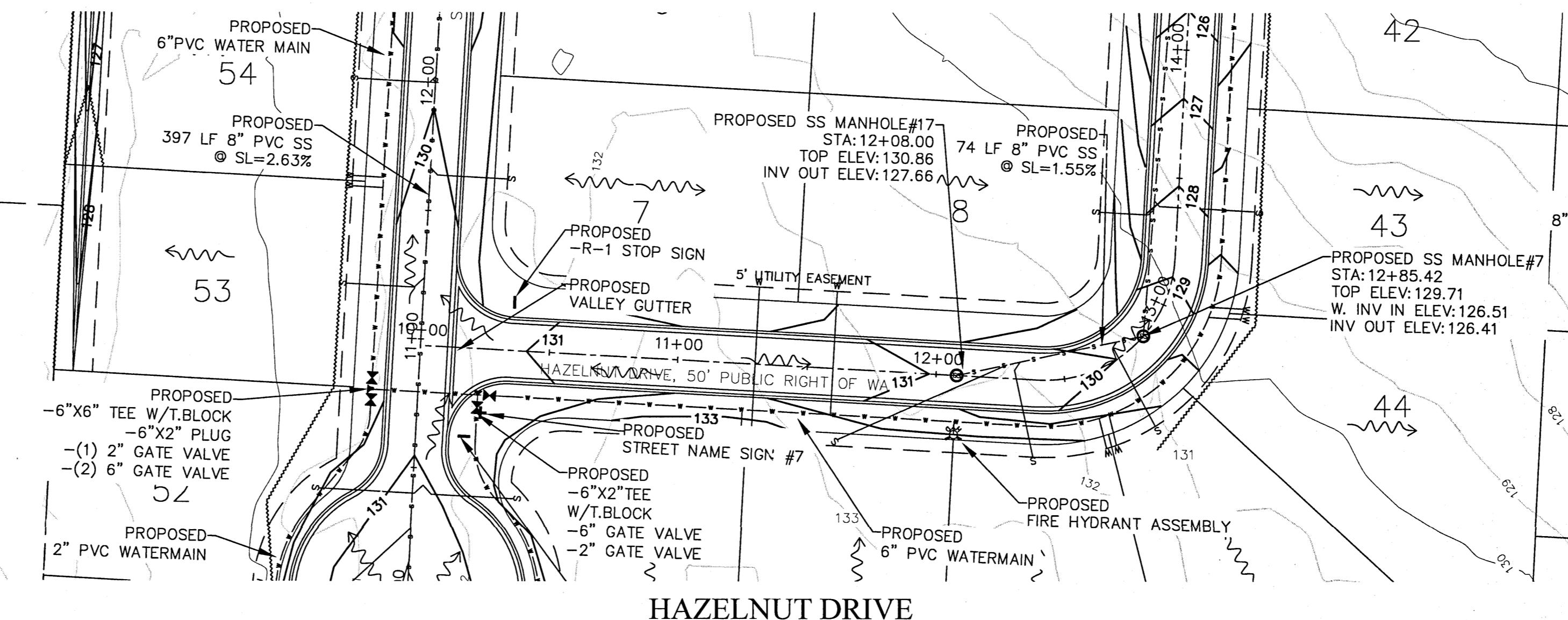
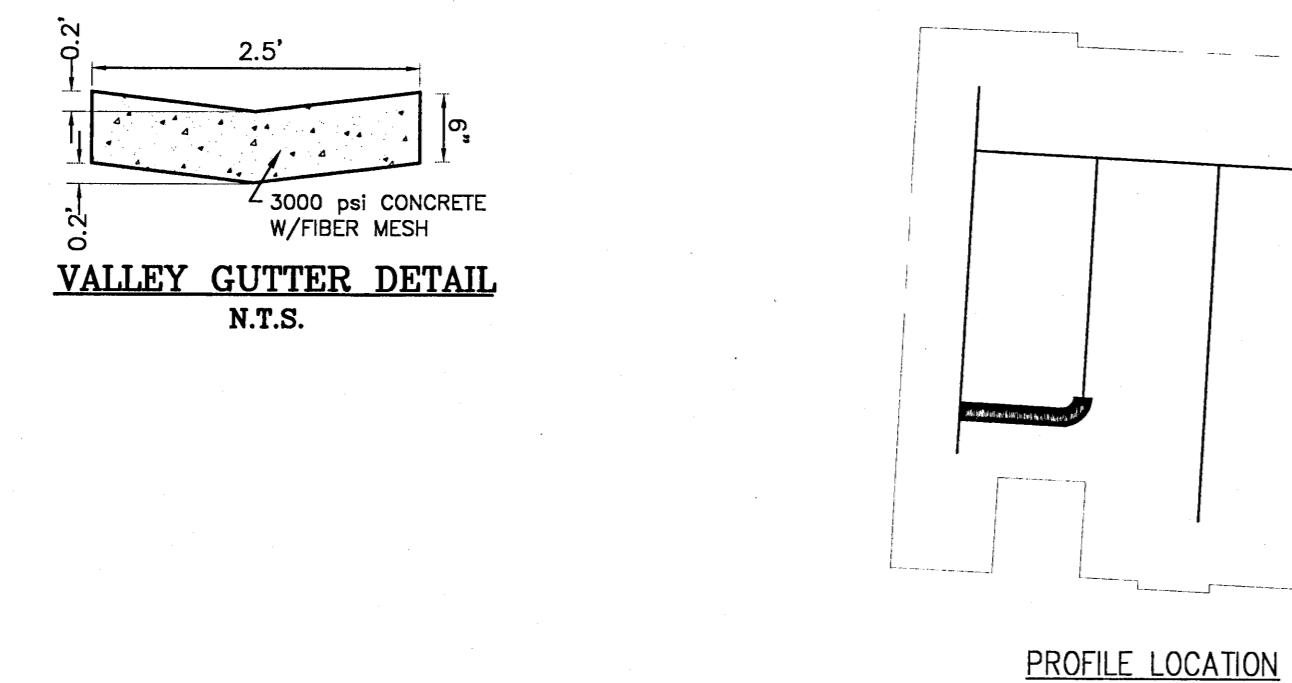
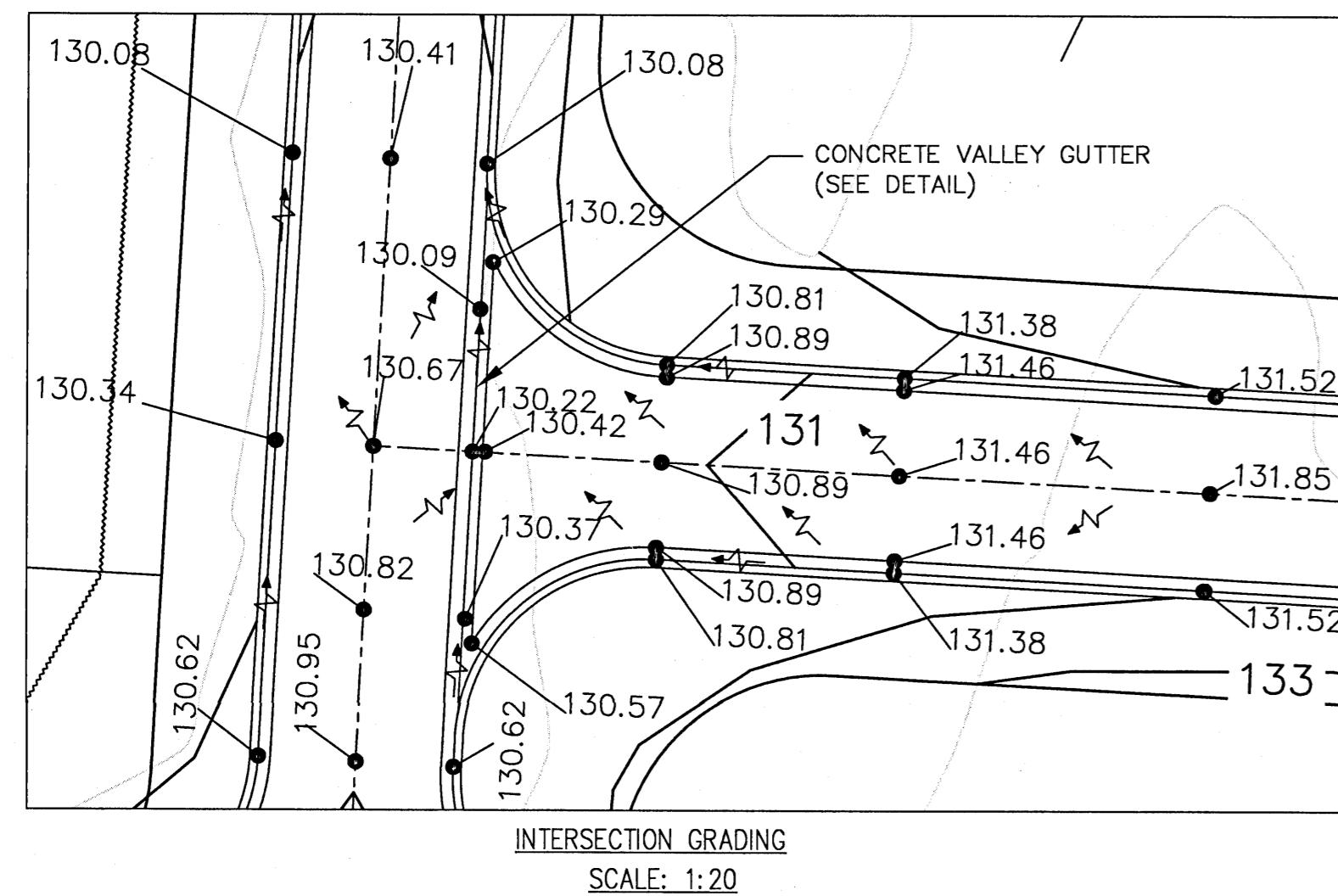
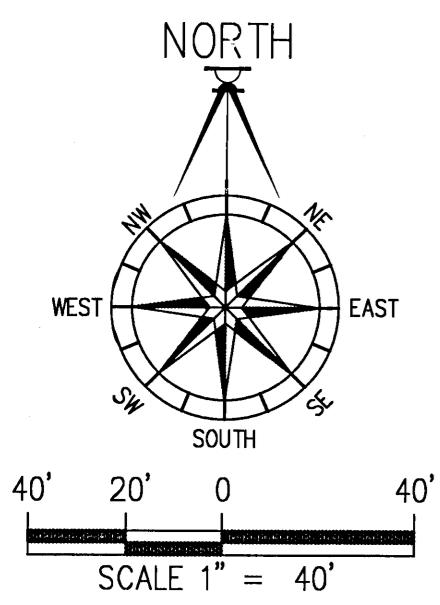
NOTE: ALL SPOT ELEVATIONS ARE GUTTER



PROFILE LOCATION



NUMBER	REVISION
DRAWN BY: B. PEMENT	
DESIGNED BY: D. FITZPATRICK	
SIGNATURE & SEAL	
PROJECT NUMBER	19-049
PLOT DATE	07/19/21
HEET	C10 OF C42



# PECAN VALLEY

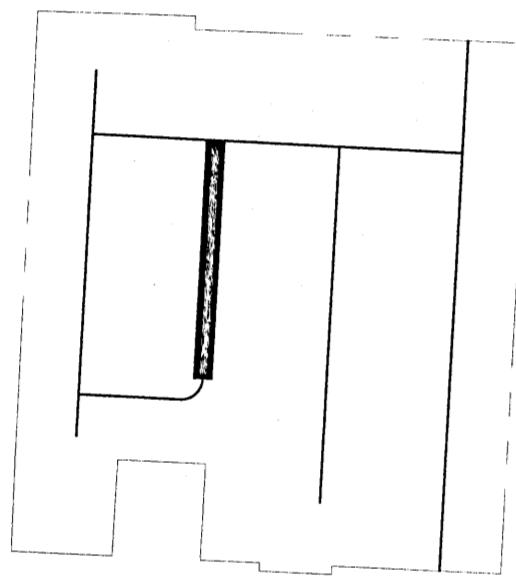
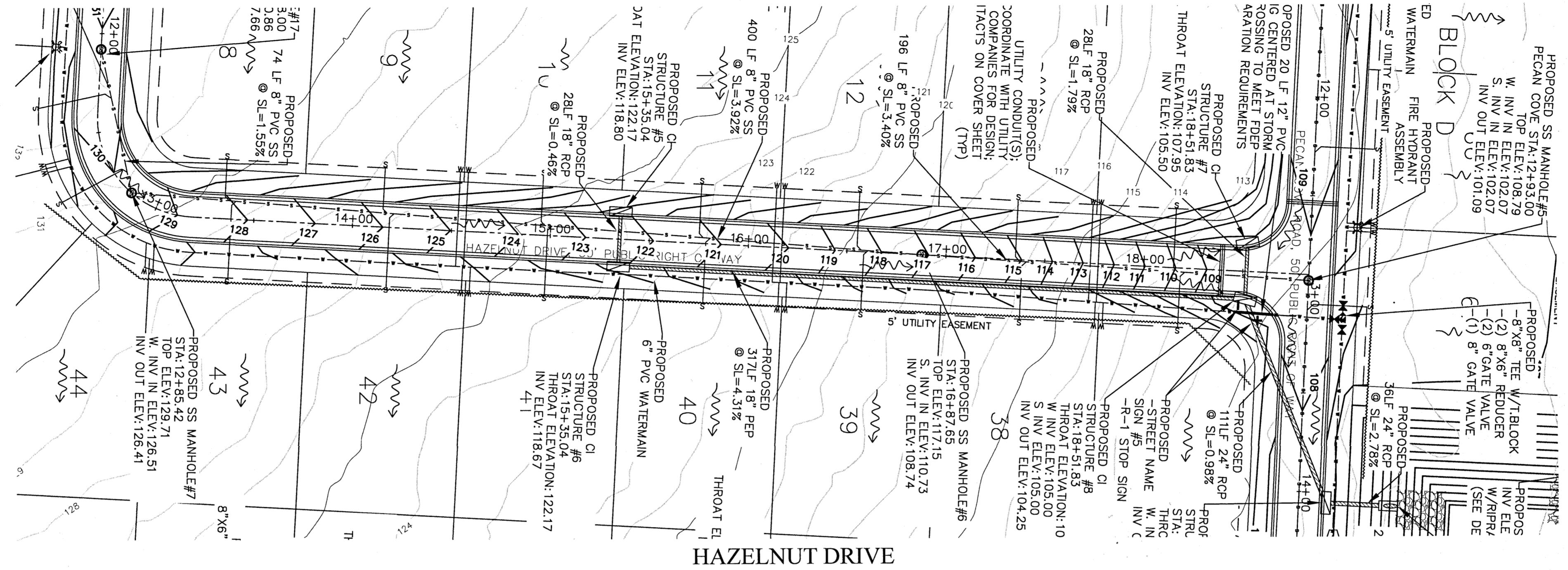
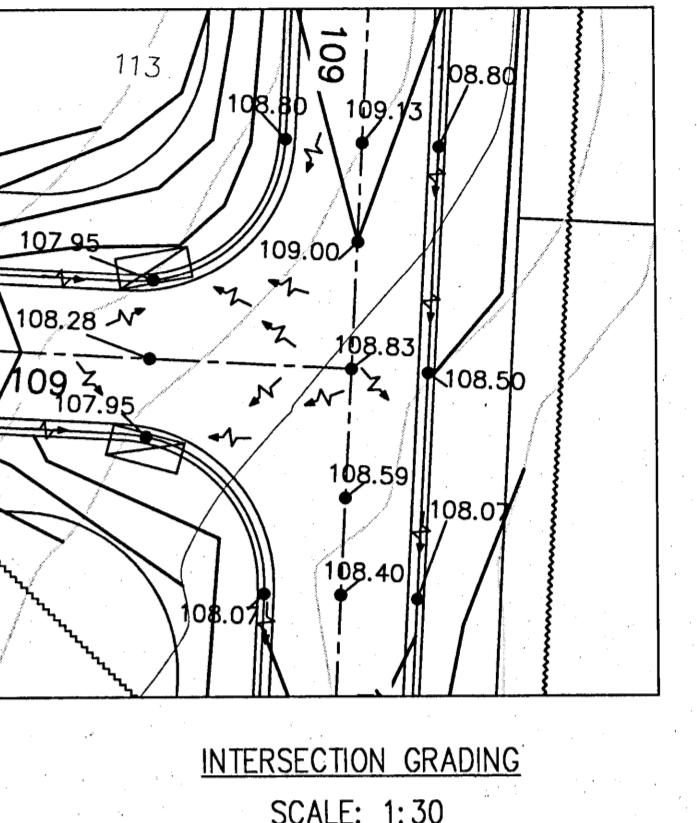
**DAVID W. FITZPATRICK**  

---

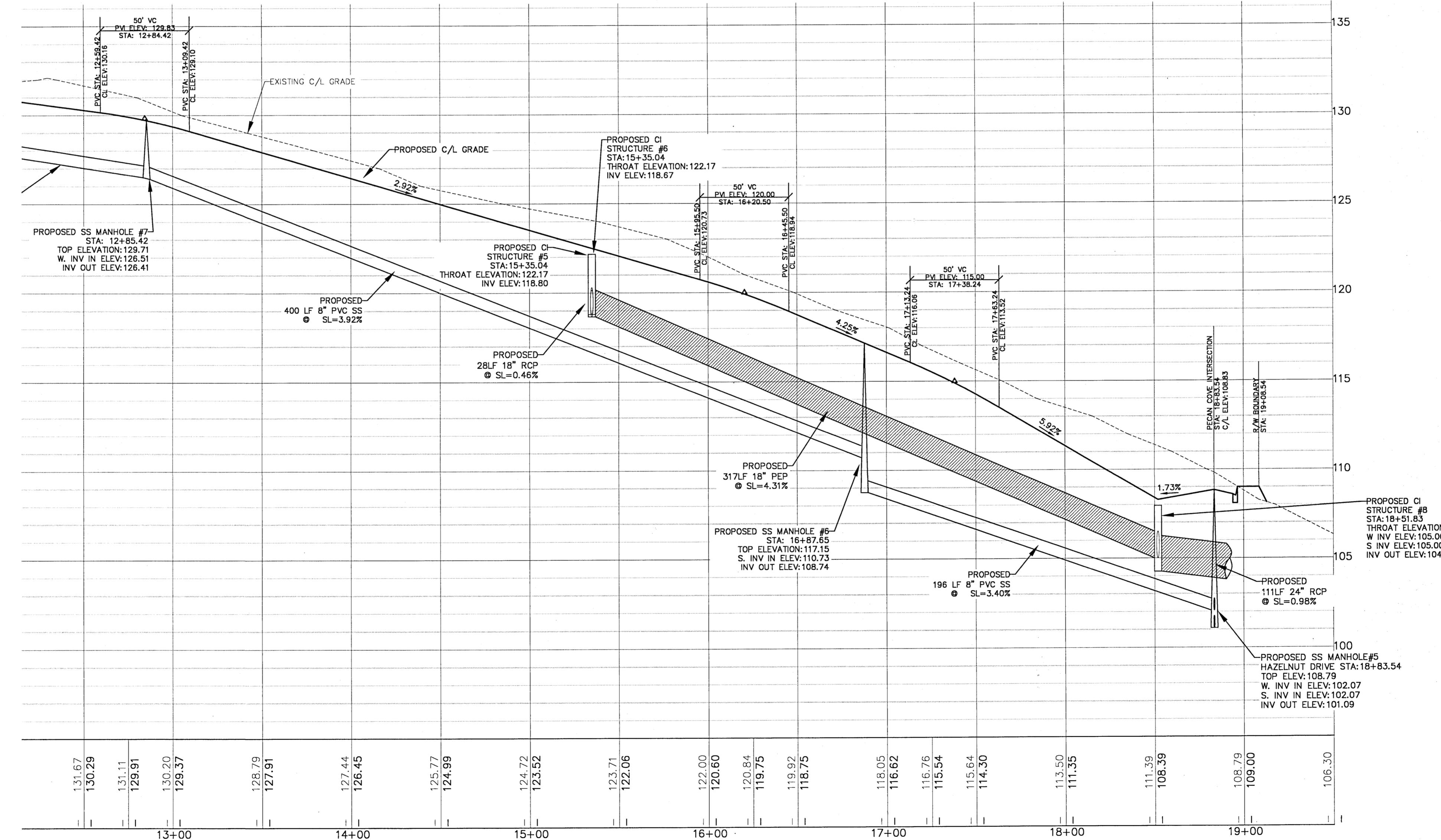
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #000008423  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

NUMBER	REVISION	DATE					
<p>DRAWN BY: B. PEMENT</p> <p>DESIGNED BY: D. FITZPATRICK</p>  <p>DATE:</p> <p>PROJECT NUMBER 19-049</p> <p>PLOT DATE 07/19/21</p> <p>SHEET C11 OF C42</p>							

**PECAN VALLEY**  
**HAZELNUT DRIVE PLAN/PROFILE 2**



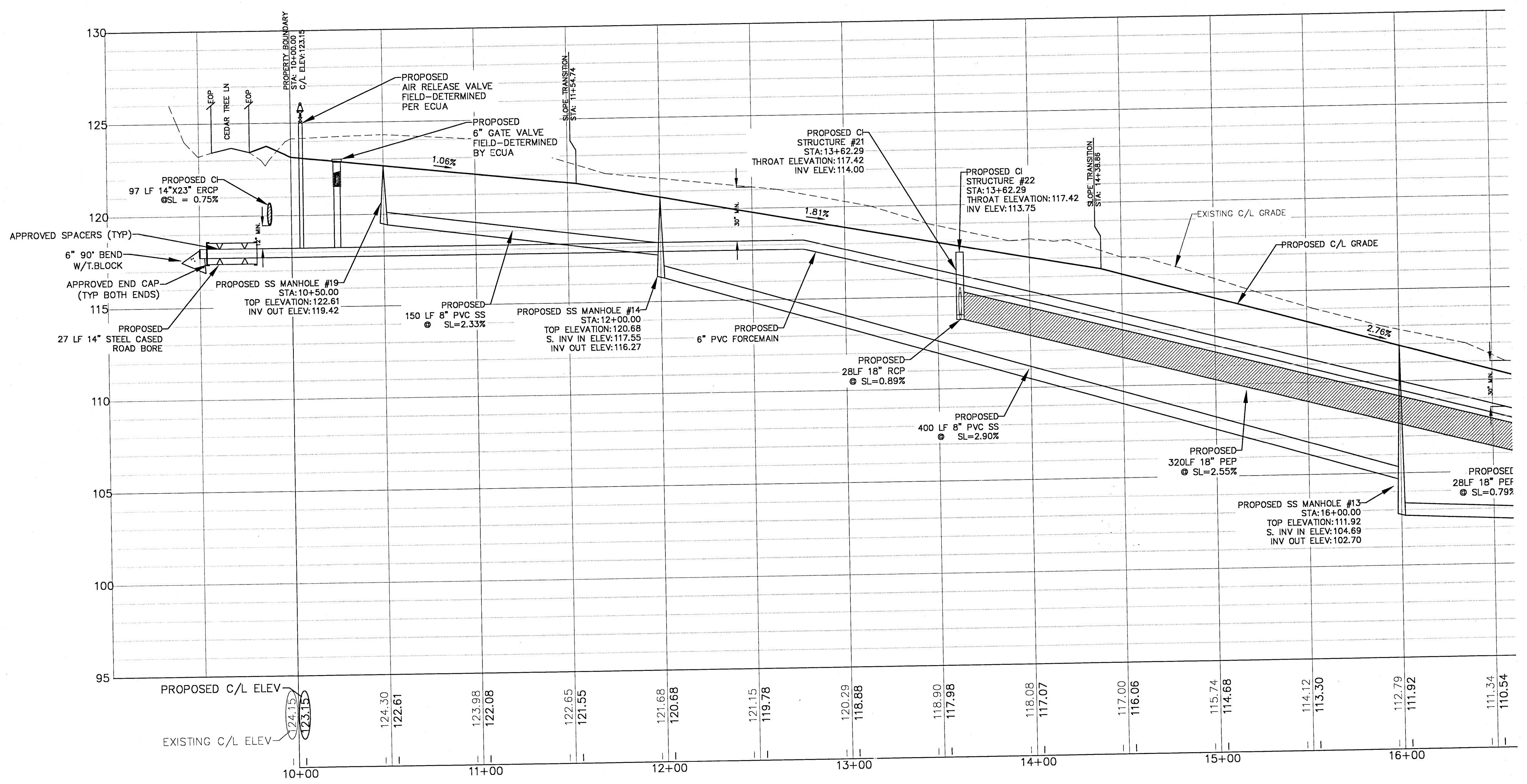
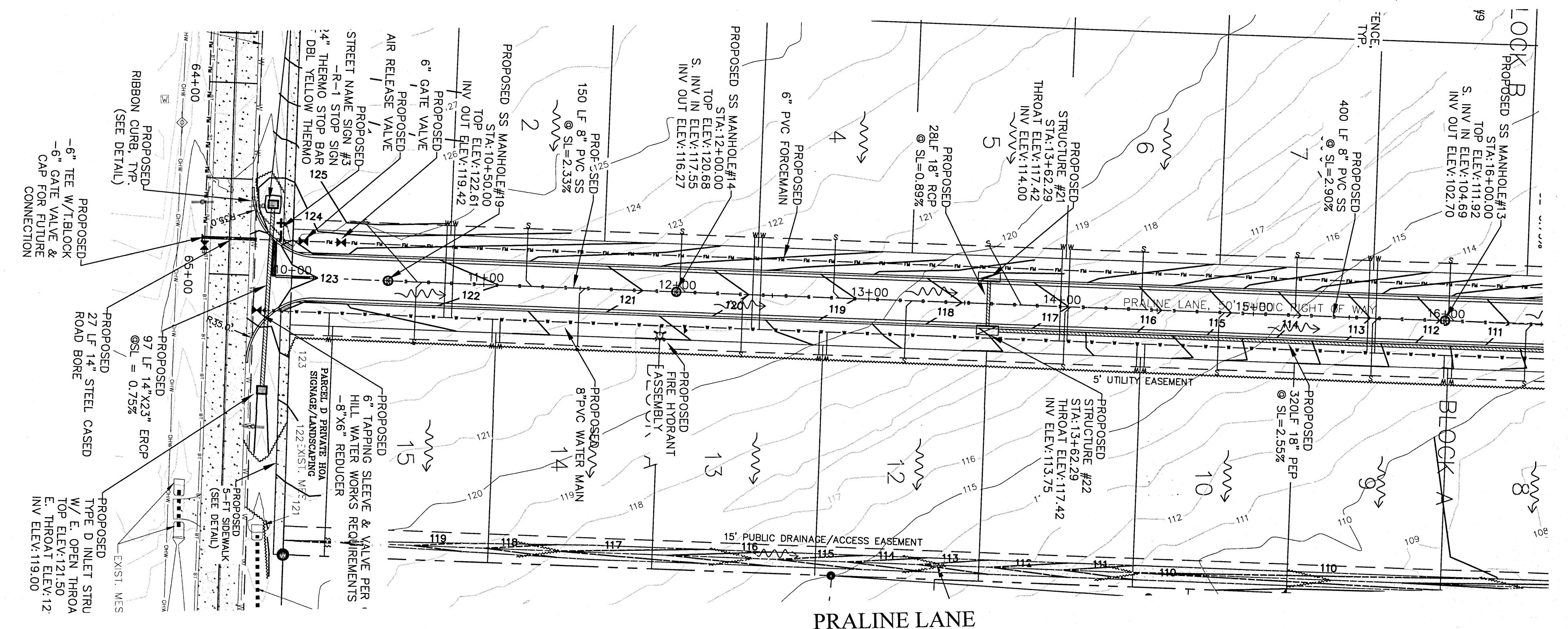
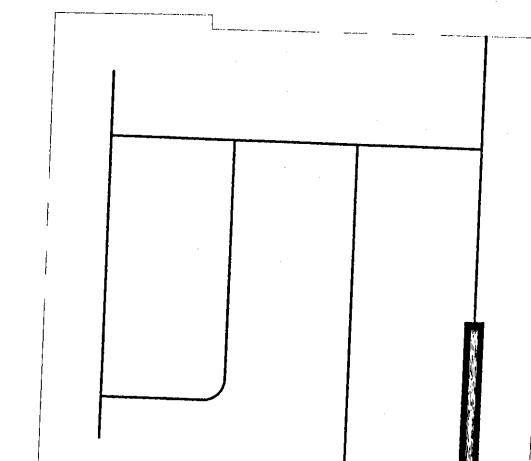
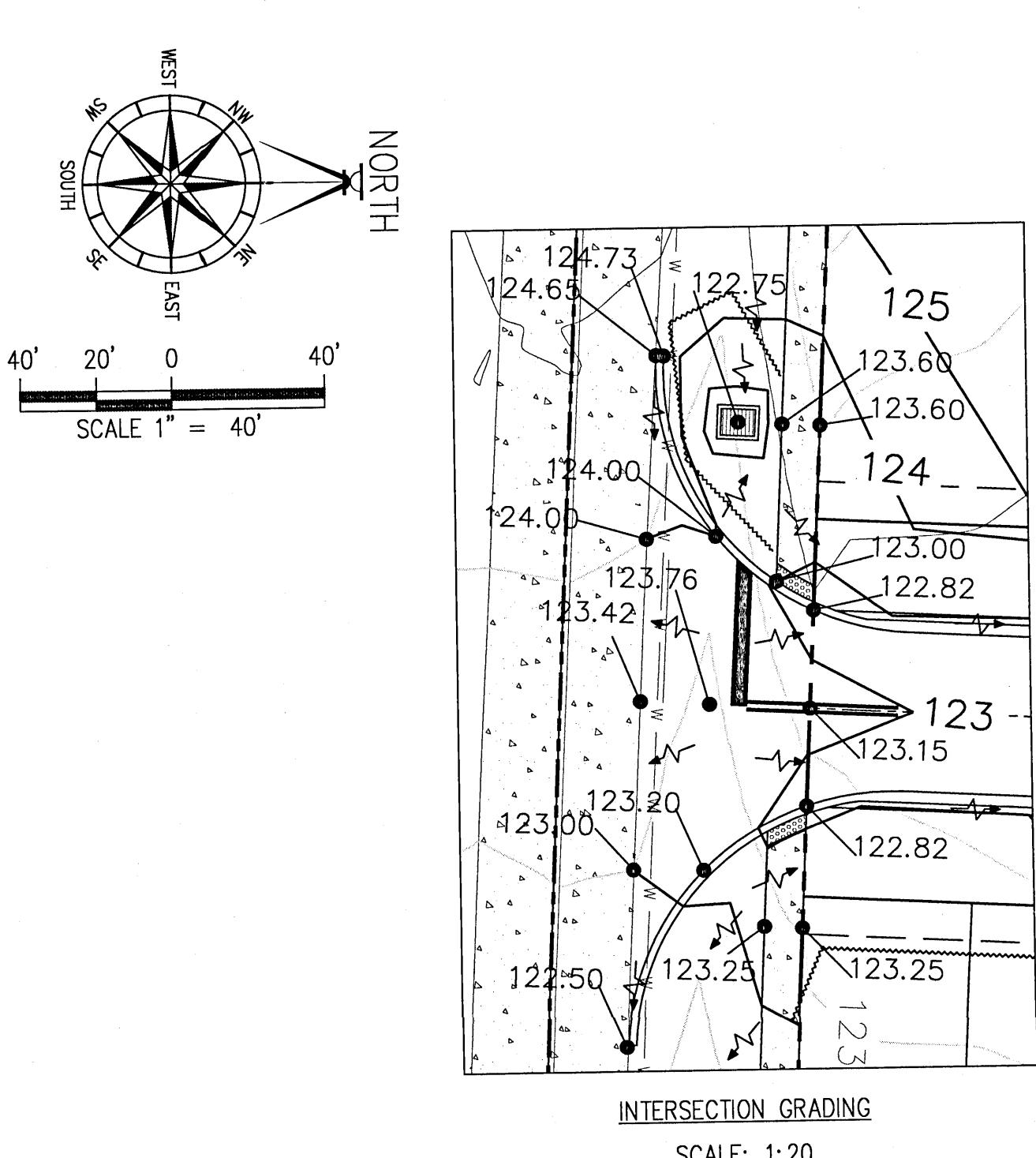
PROFILE LOCATION



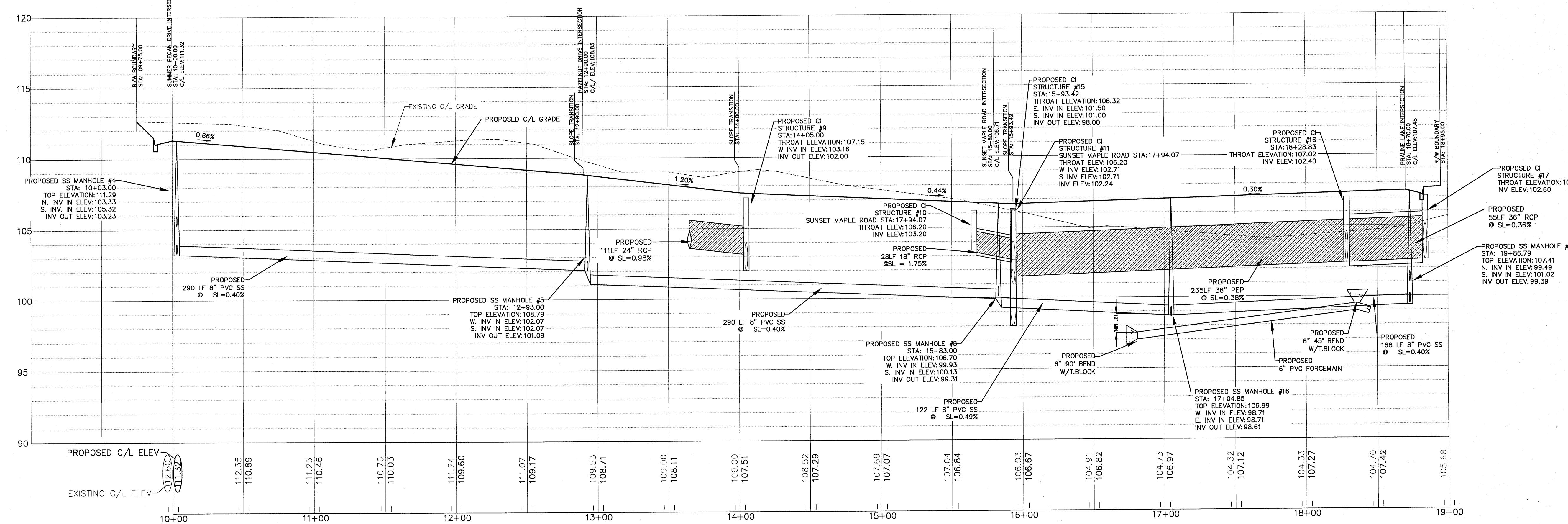
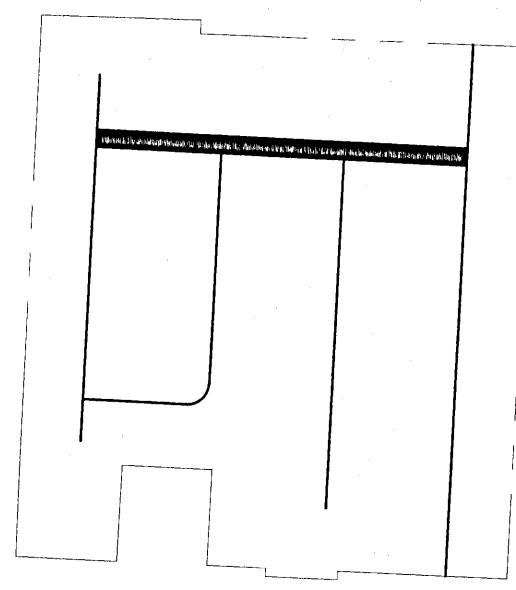
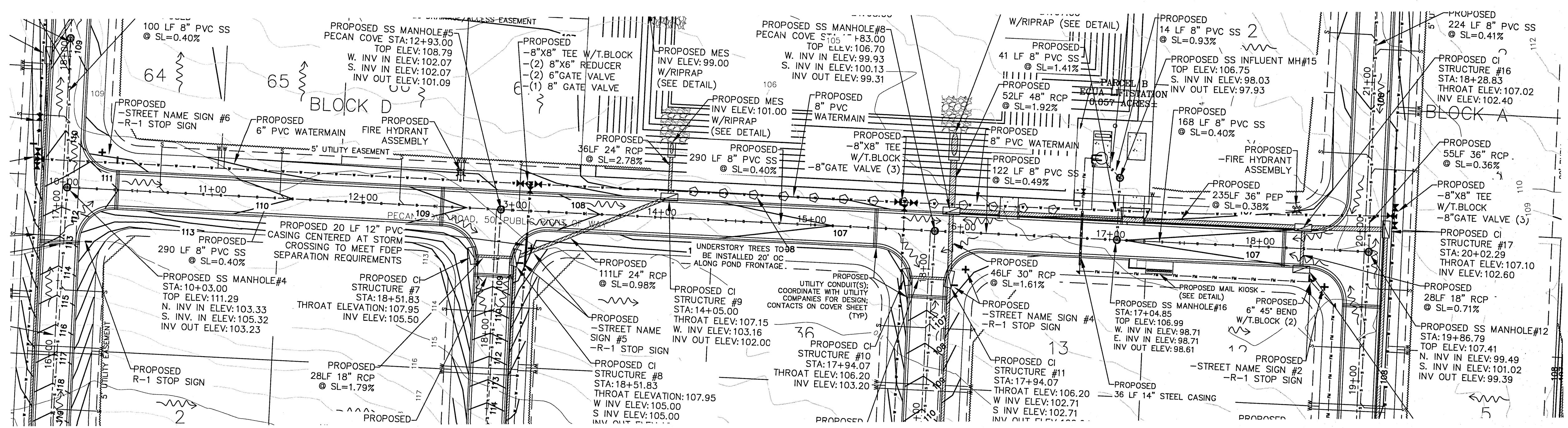
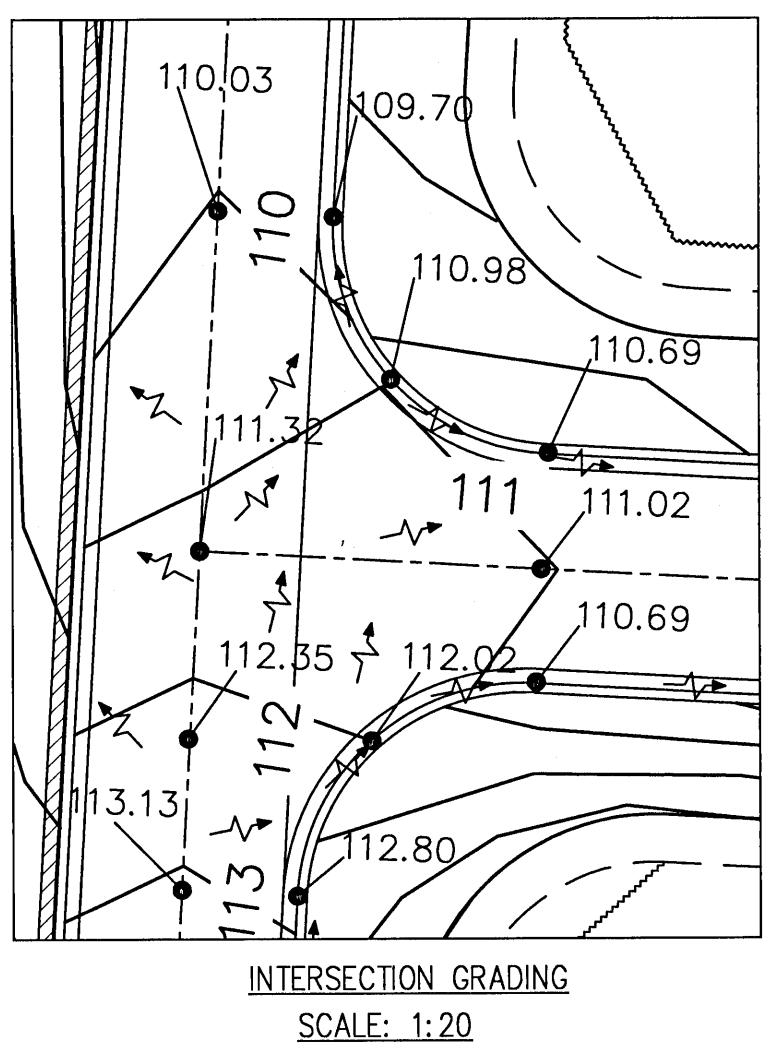


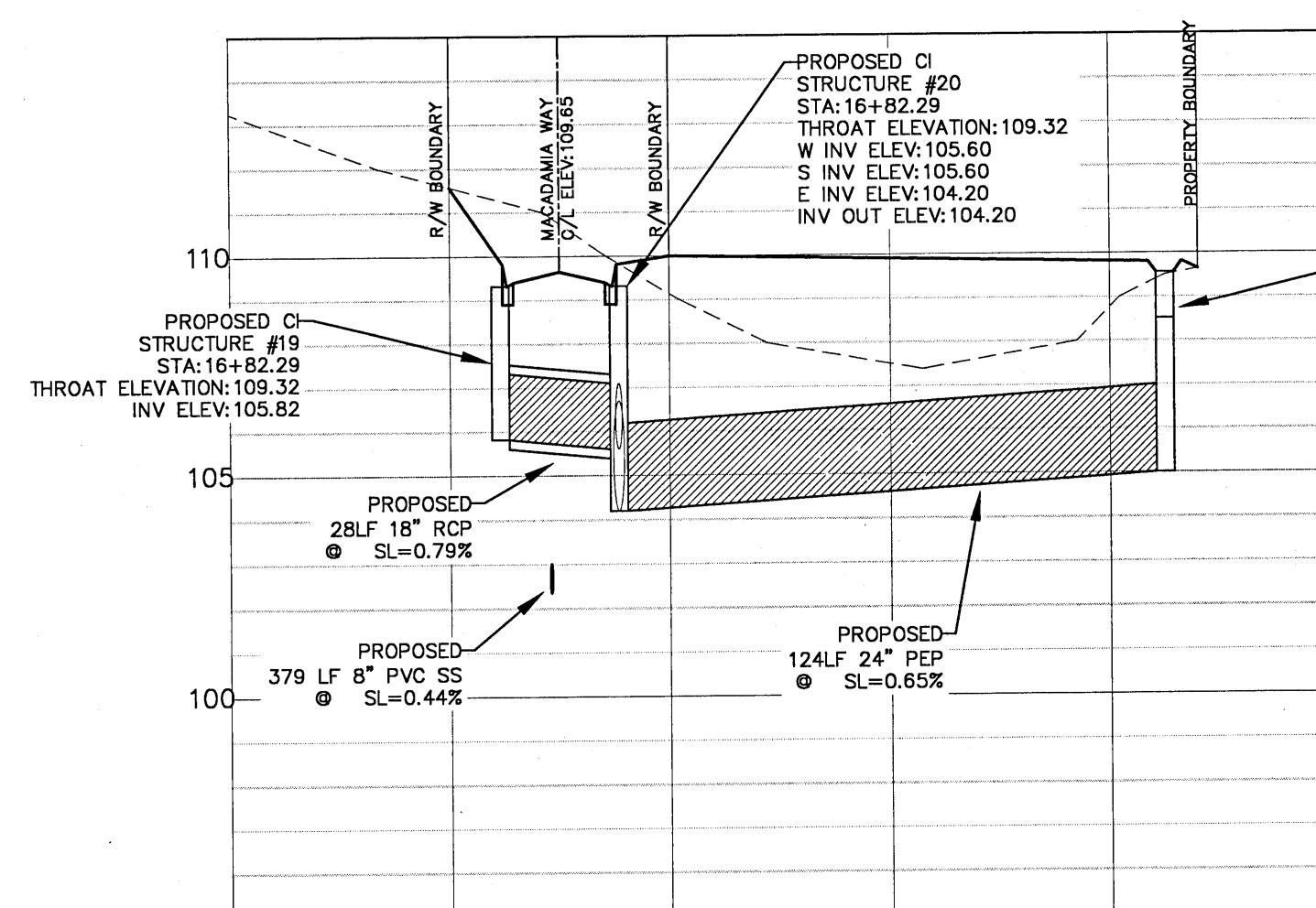
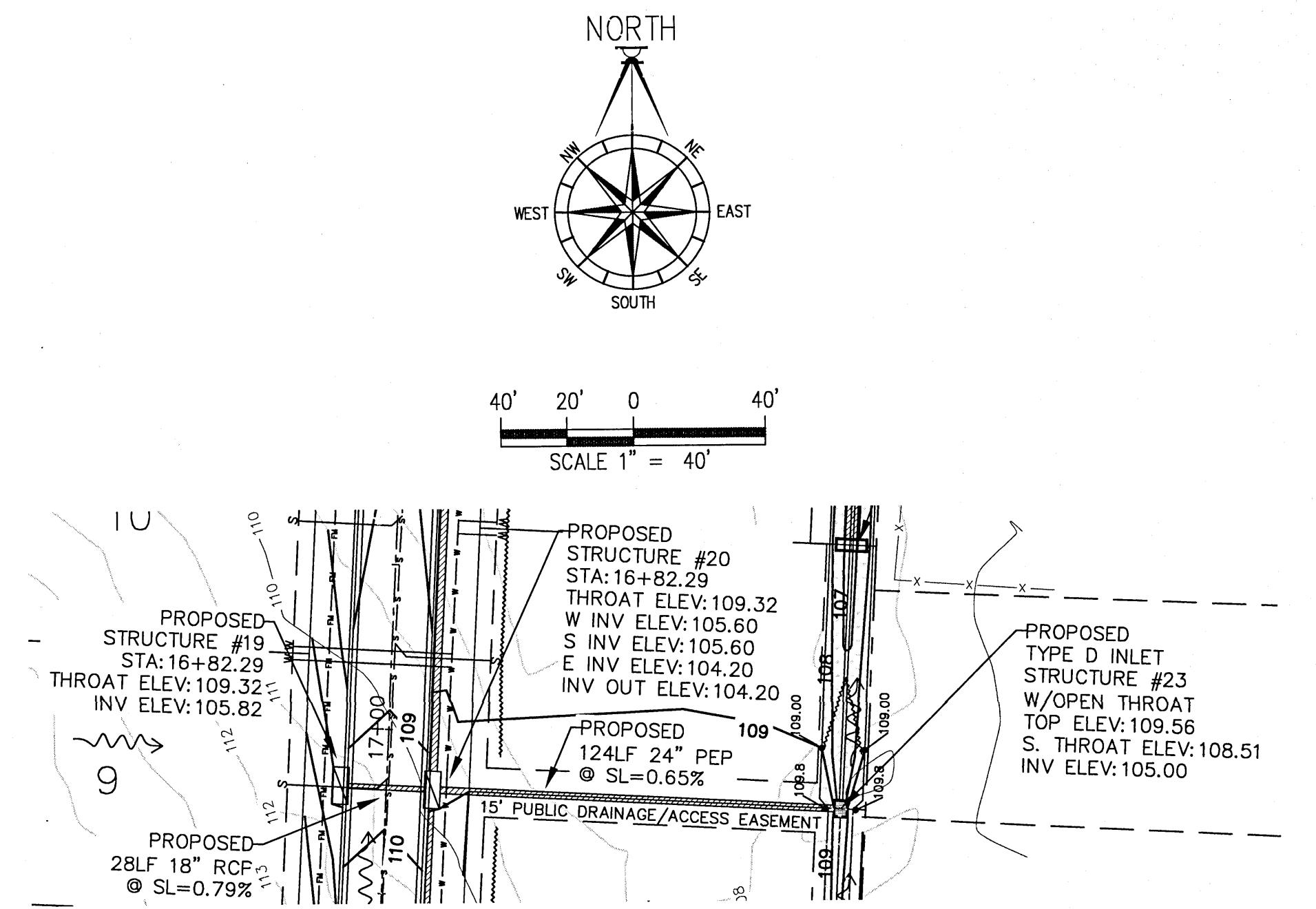
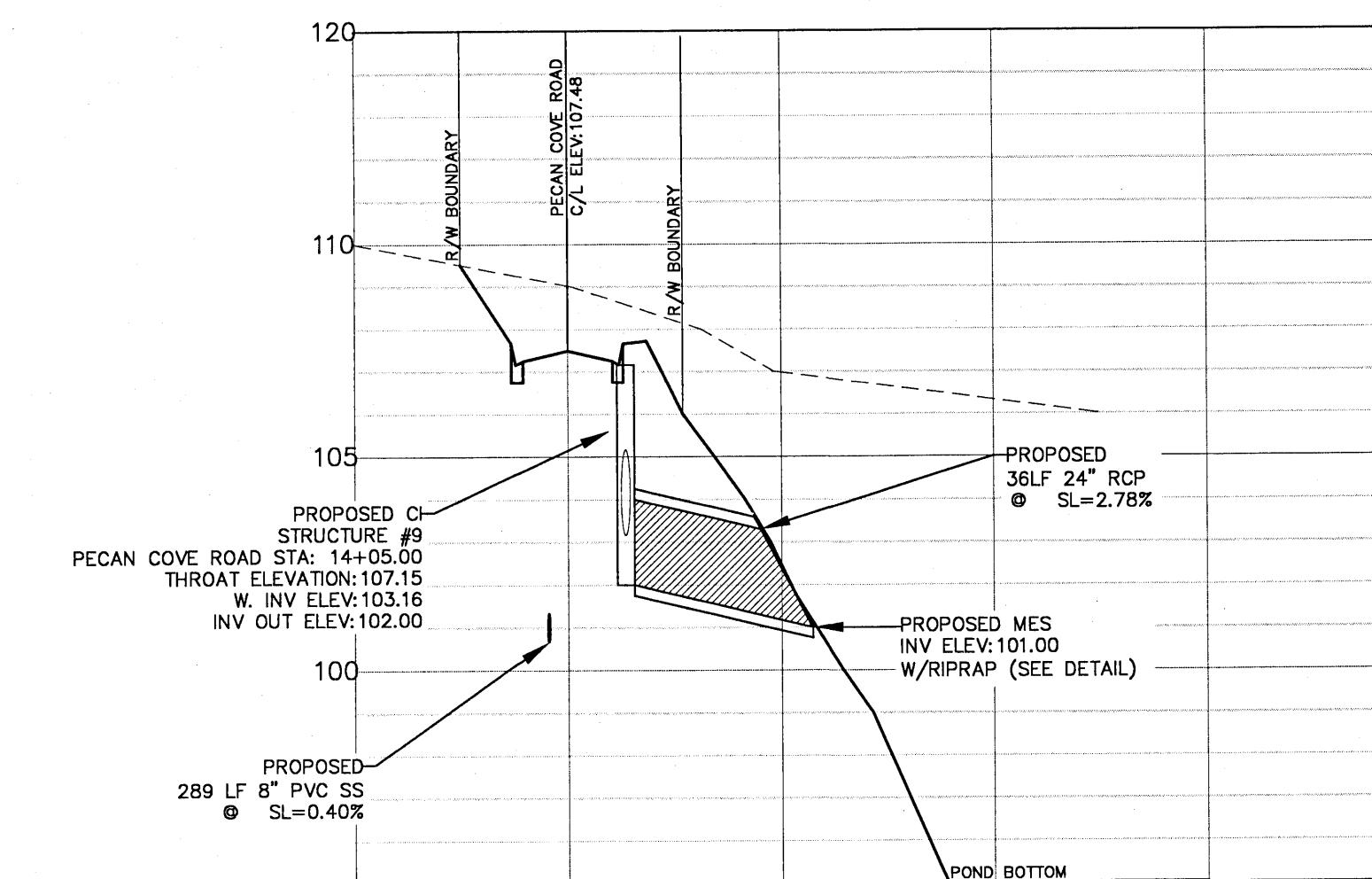
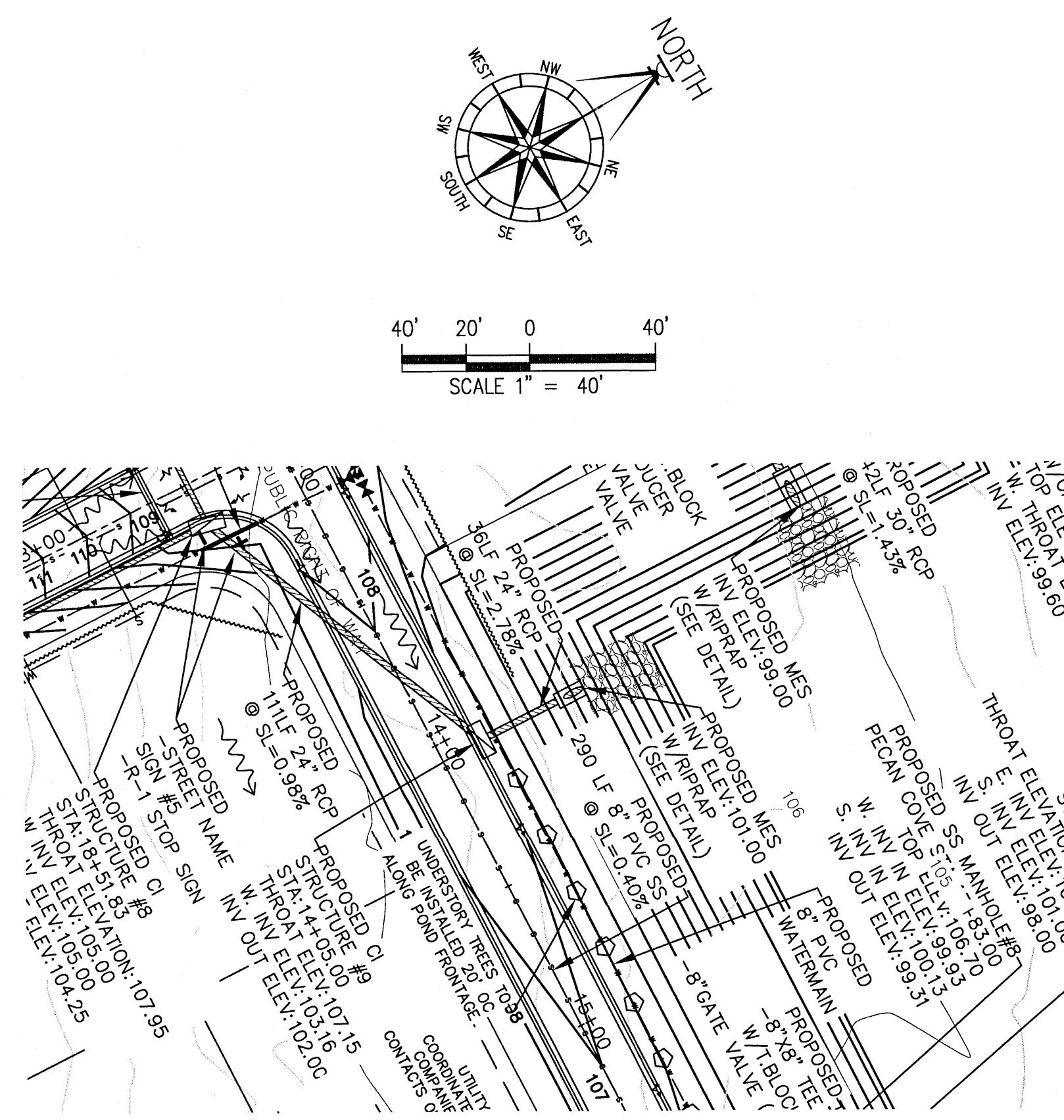
# PECAN VALLEY

PRALINE LANE PLAN/PROFILE 1





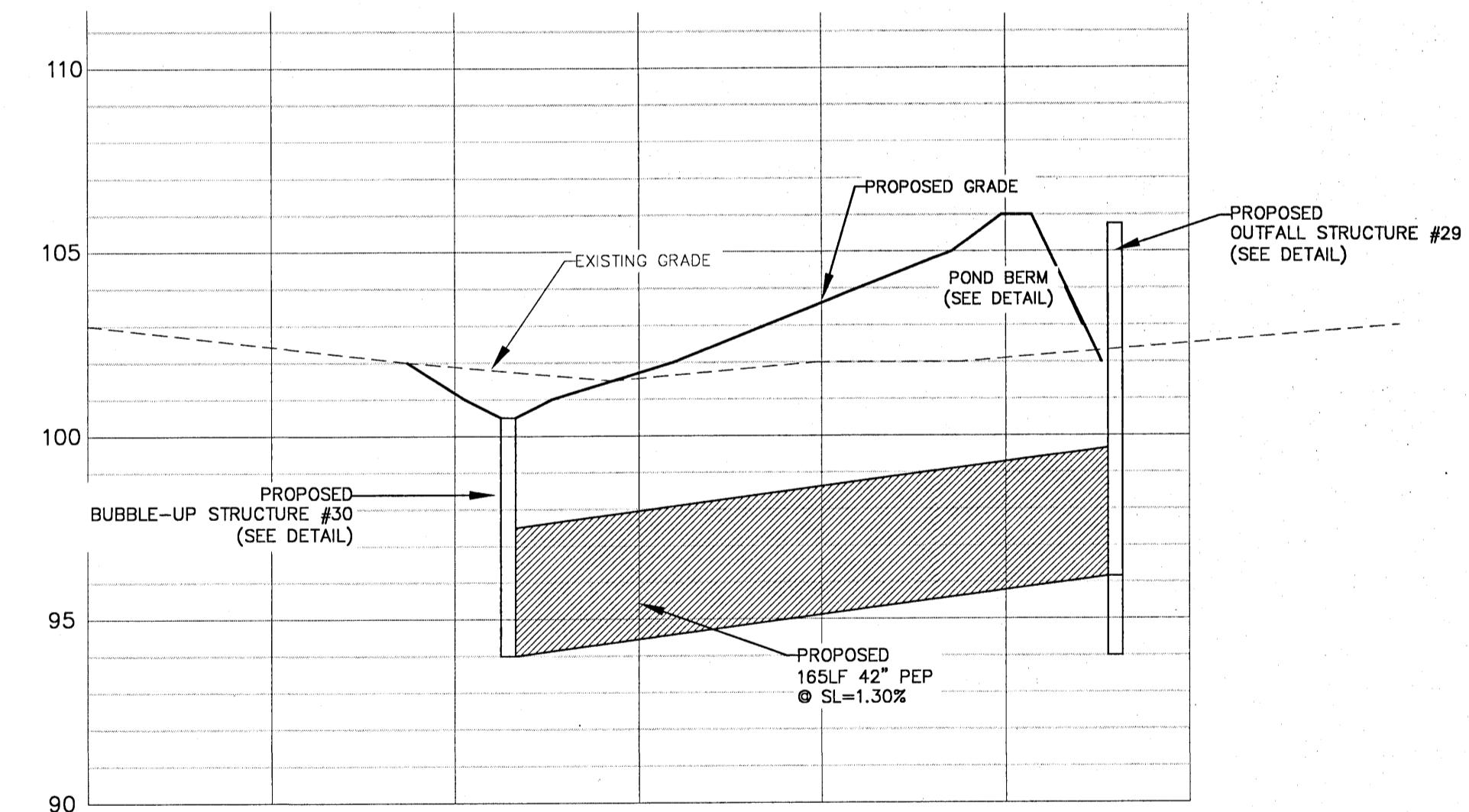
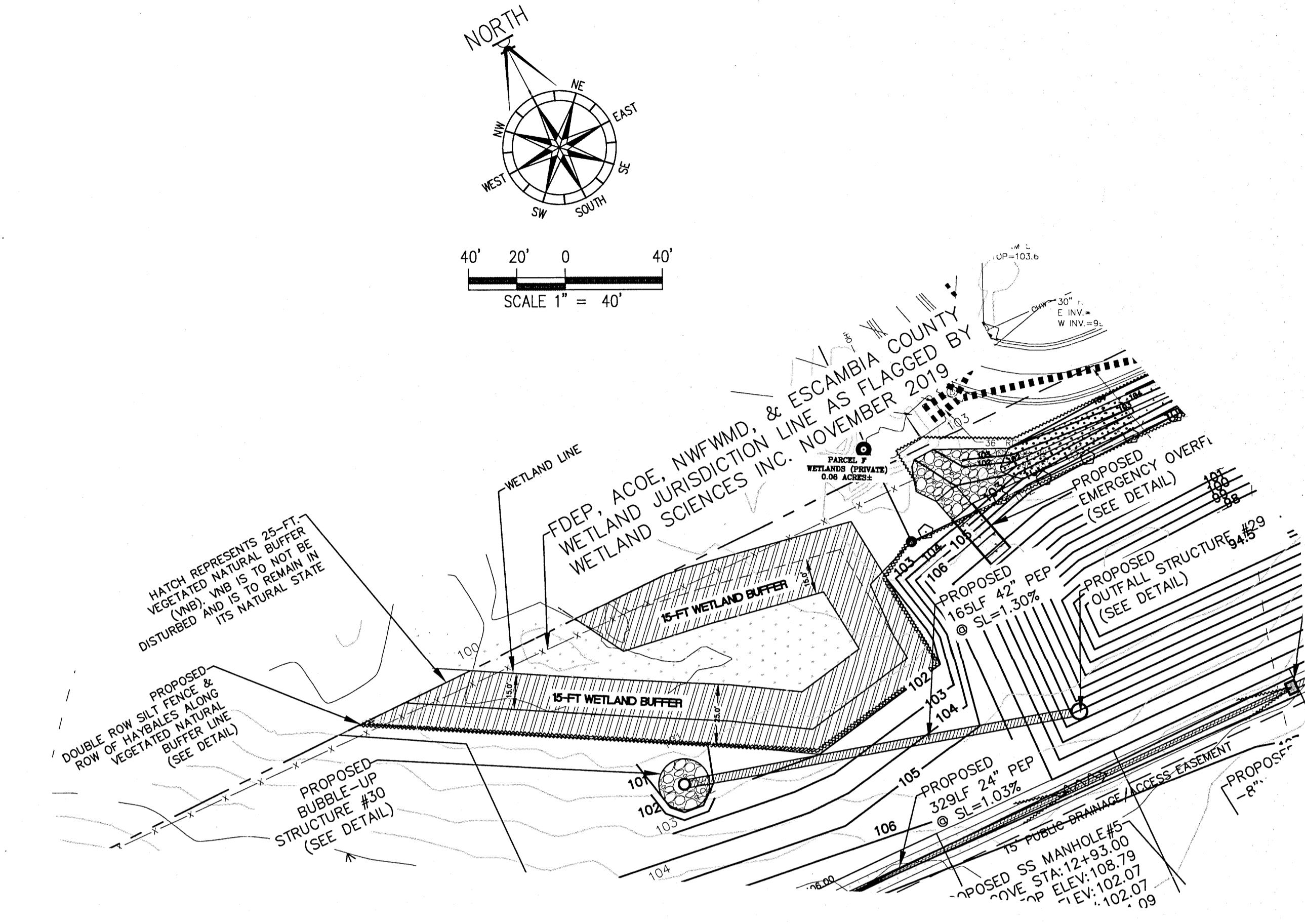
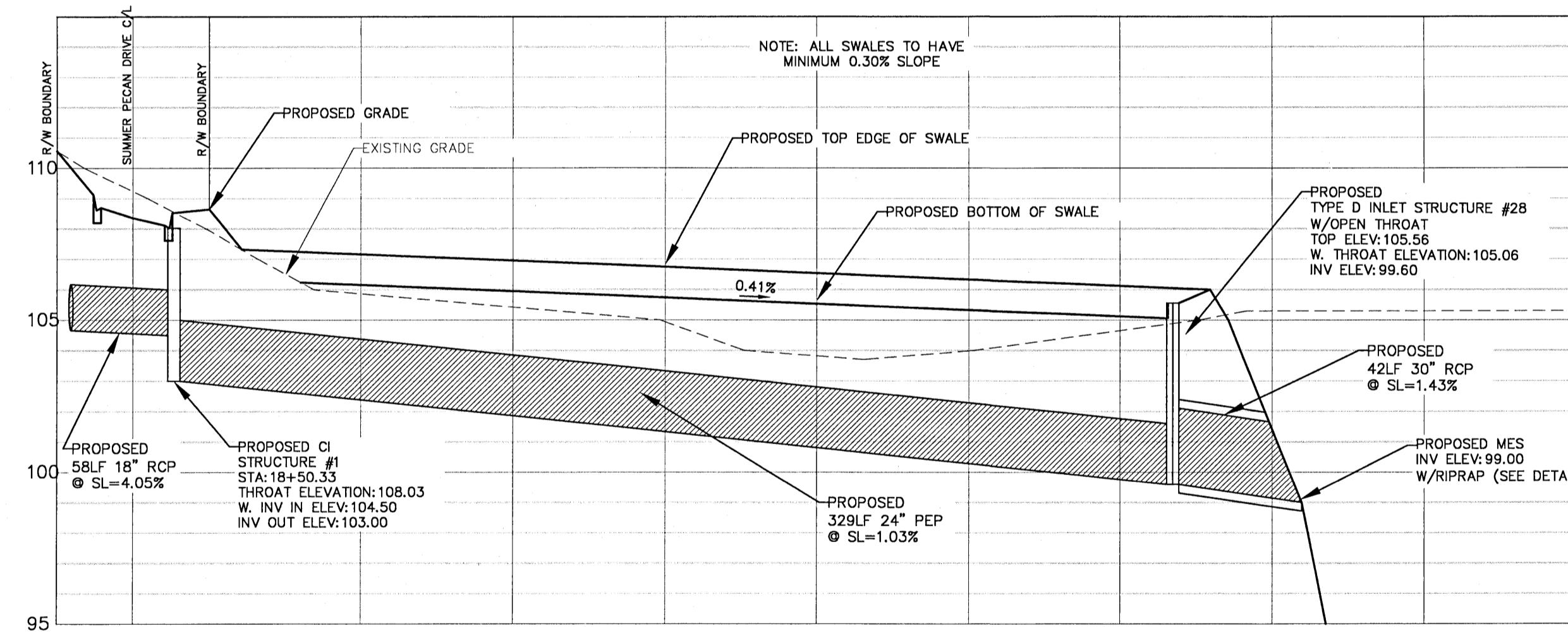
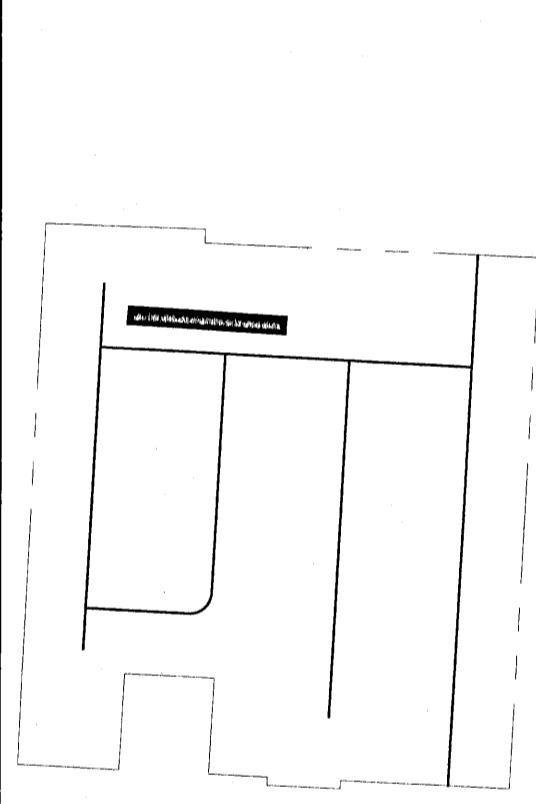
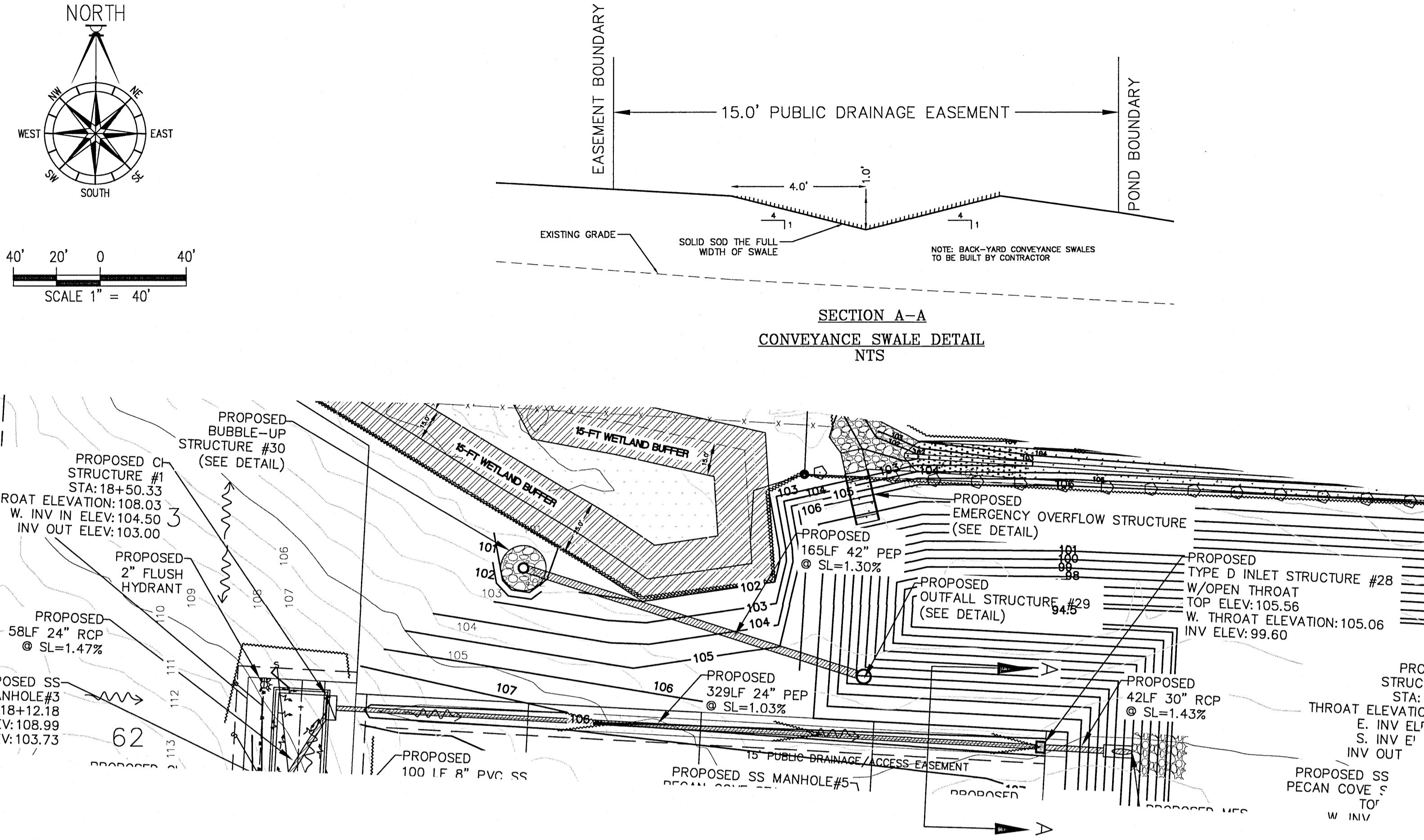




# PECAN VALLEY

**PROFESSIONAL ENGINEER, P.A.**  
**BOARD OF PROFESSIONAL REGULATION #00008423**  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

DRAWN BY:									
B. PEMENT									
DESIGNED BY:									
D. FITZPATRICK									
<u>SIGNATURE &amp; SEAL</u>									
<p>D.W. FITZPATRICK LICENSE NO. 47818 STATE OF FLORIDA PROFESSIONAL ENGINEER</p>									
PROJECT NUMBER		19-049							
PLOT DATE		07/19/21							
SHEET C17 OF C42									

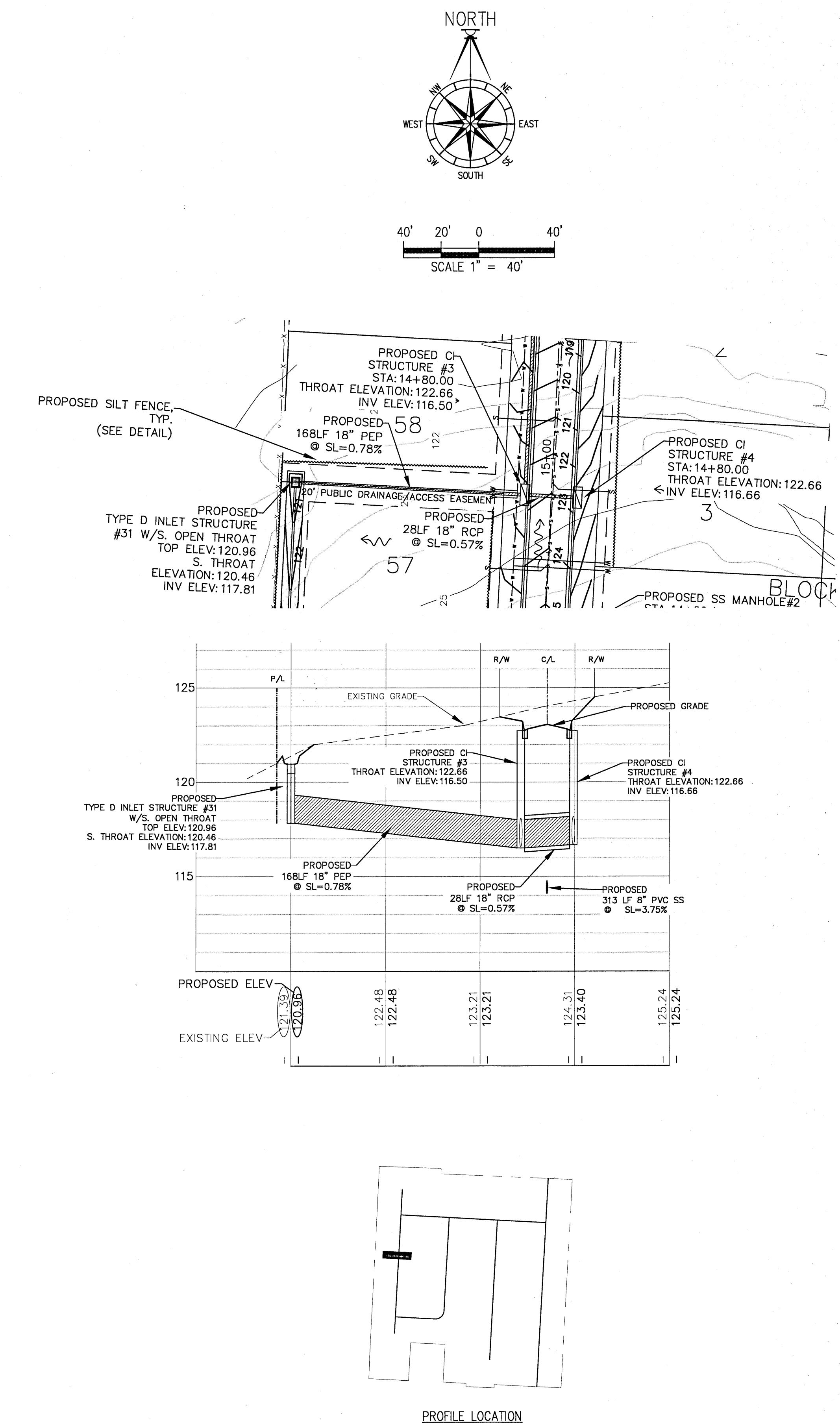
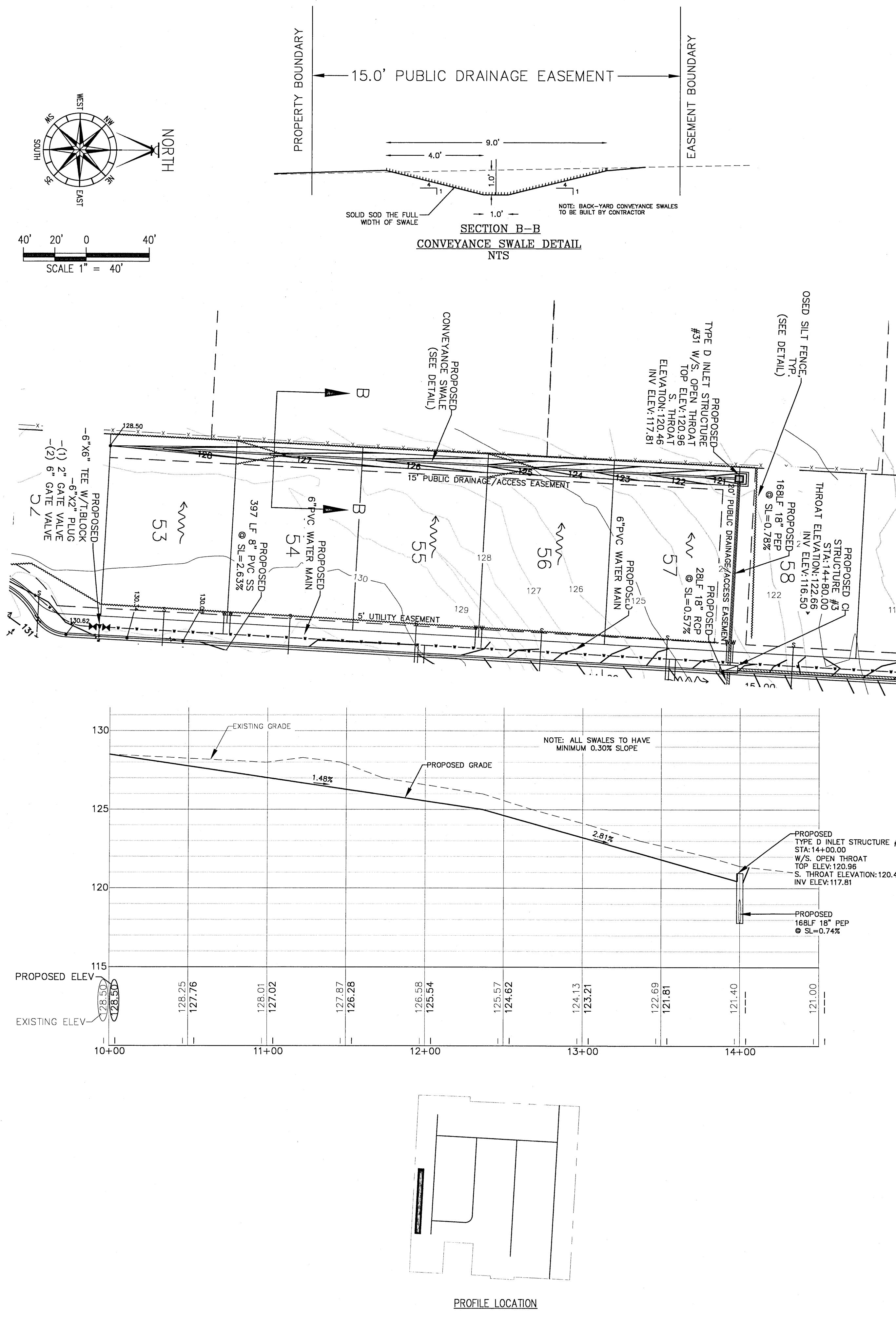


# PECAN VALLEY

**DAVID W. FIZZAI RICK**  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #000008423  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

# PECAN VALLEY

DRAWN BY: B. PEMENT	
DESIGNED BY: D. FITZPATRICK	
<b>SIGNATURE &amp; SEAL</b>	
<p>W. FITZPATRICK LICENSE No 47818 STATE OF FLORIDA PROFESSIONAL ENGINEER</p>	
JECT MBER	19-049
DATE	07/19/21
SET C18 OF C42	



**DAVID W. FITZPATRICK**

---

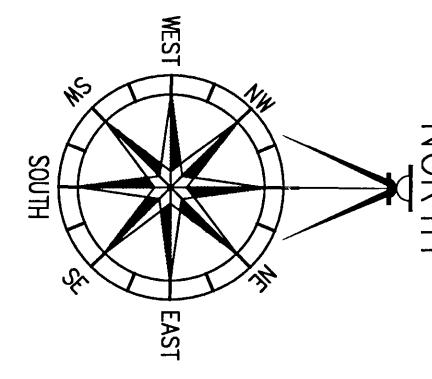
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

**BOARD OF PROFESSIONAL REGULATION #00008423**  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

# PECAN VALLEY

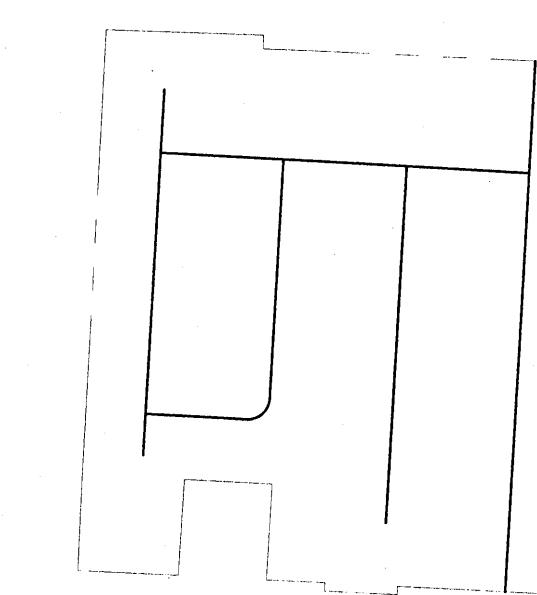
## MISC. PLAN/PROFILE

DATE					
REVISION					
NUMBER					
<p>DRAWN BY: B. PEMENT</p> <p>DESIGNED BY: D. FITZPATRICK</p> <p><u>SIGNATURE &amp; SEAL</u></p> <p>PROJECT NUMBER 19-049</p> <p>PLOT DATE 07/19/21</p> <p>SHEET C19 OF C42</p>					

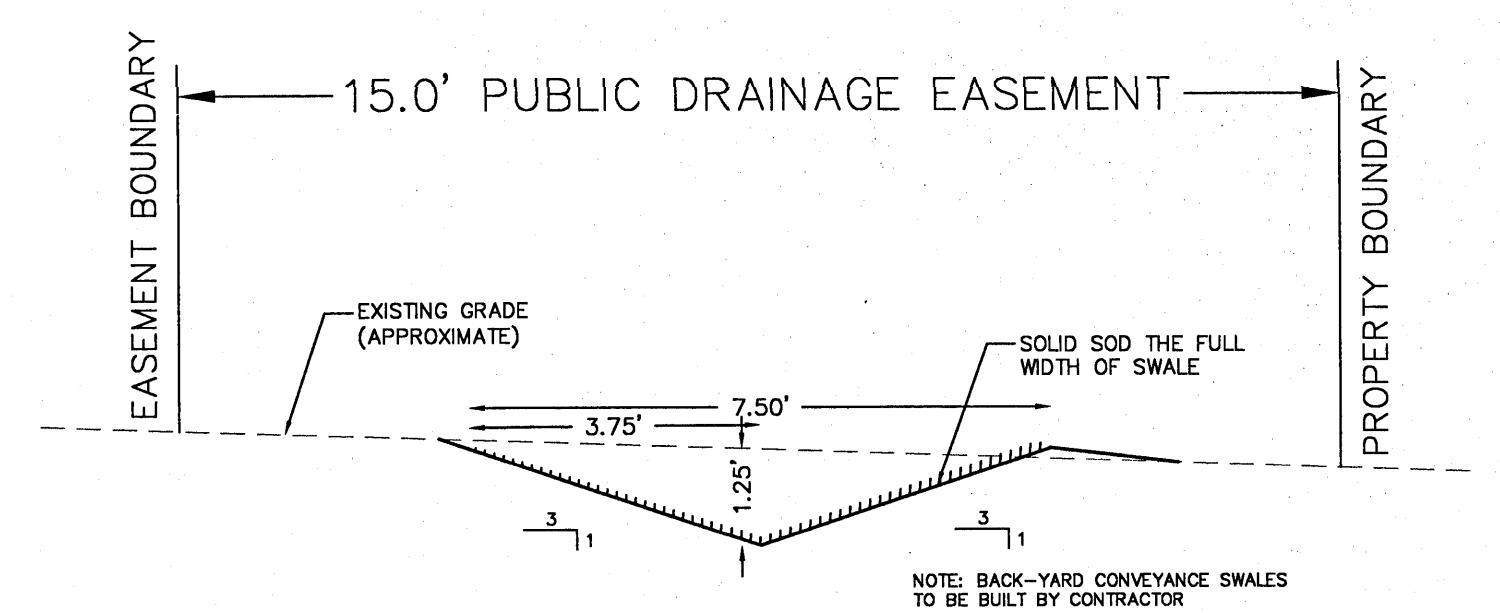
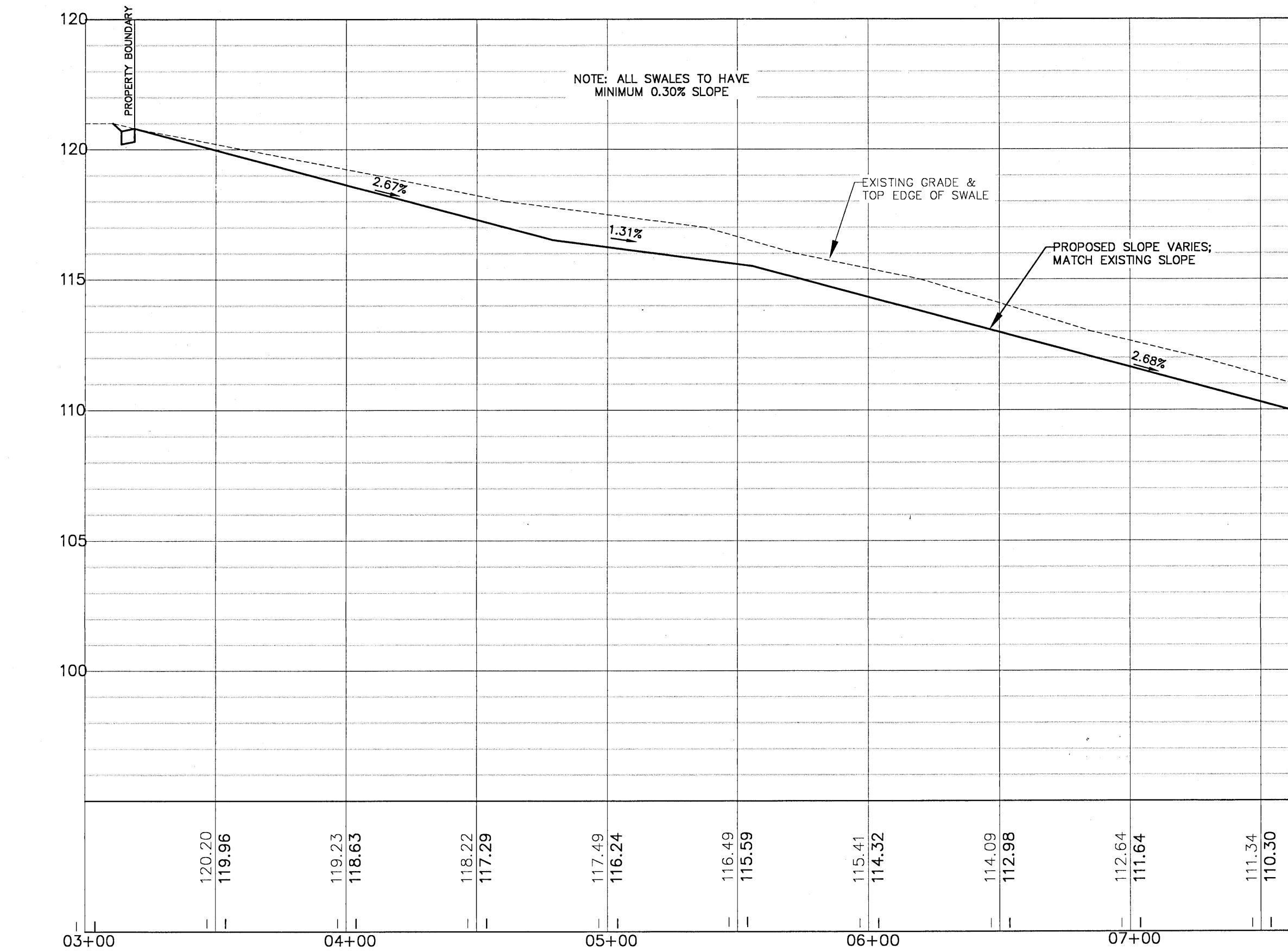
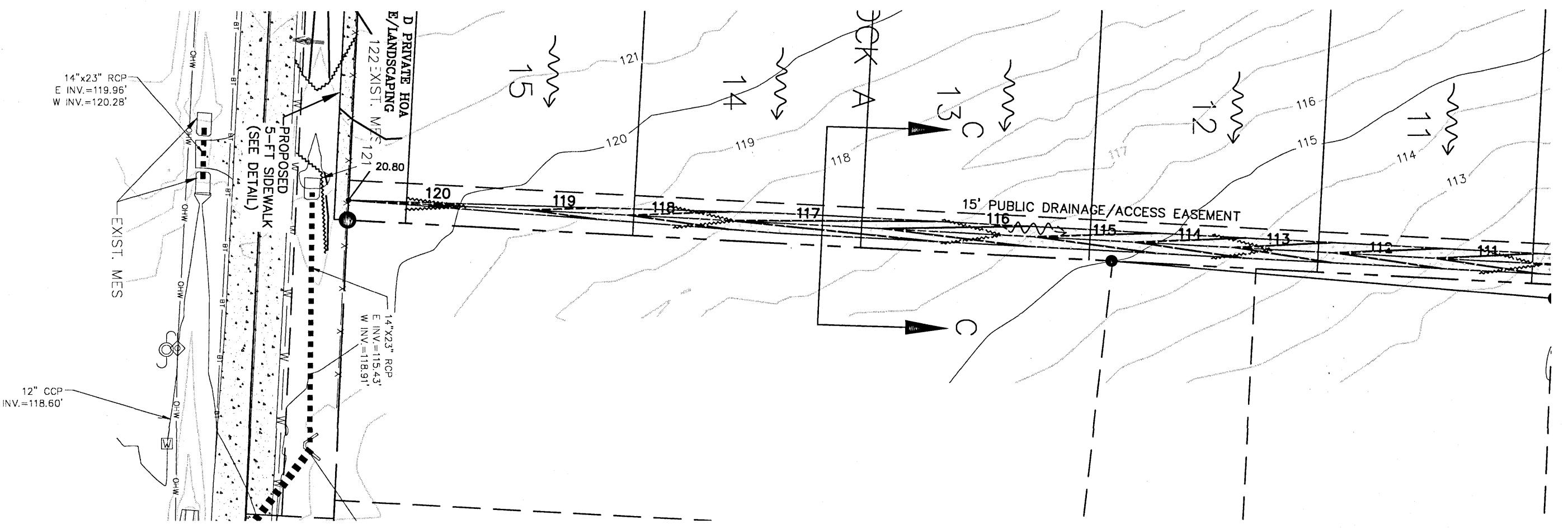


40' 20' 0 40'

SCALE 1" = 40'



PROFILE LOCATION



SECTION C-C  
CONVEYANCE SWALE DETAIL  
NTS

## PECAN VALLEY

DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423

10250 NORTH PALM FOX STREET  
PENSACOLA, FL 32534  
Ph: (850)475-8677 FAX: (850)475-7708

MISC. PLAN/PROFILE

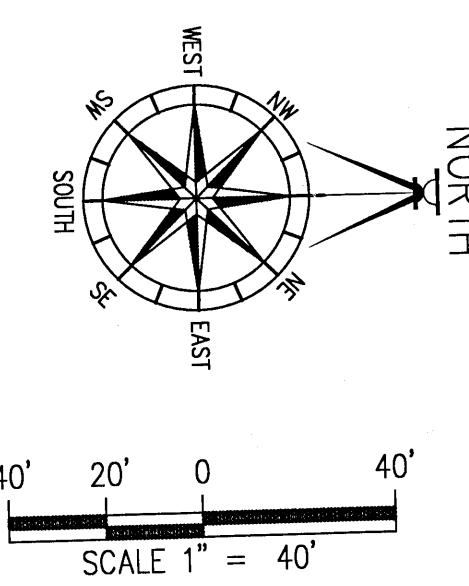
NUMBER	REVISION	DATE

DRAWN BY:  
B. PEMENT

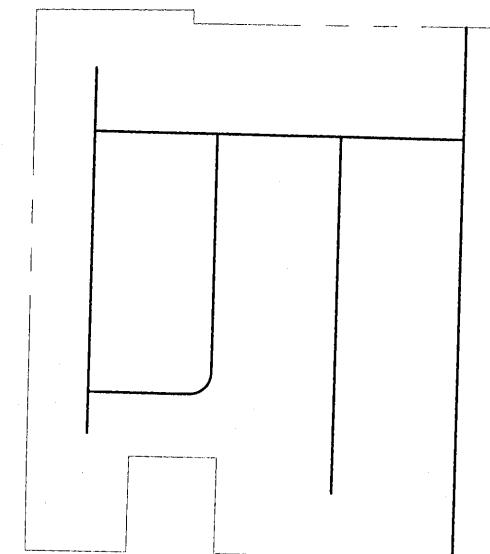
DESIGNED BY:  
D. FITZPATRICK

SIGNATURE & SEAL

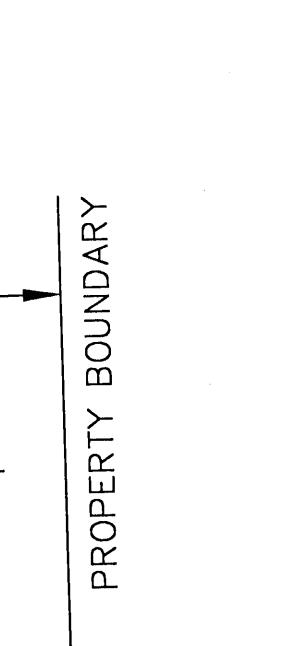
DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER  
No. 47818  
STATE OF FLORIDA  
PROJECT NUMBER 19949  
PLOT DATE 07/19/21  
SHEET C20 OF C42



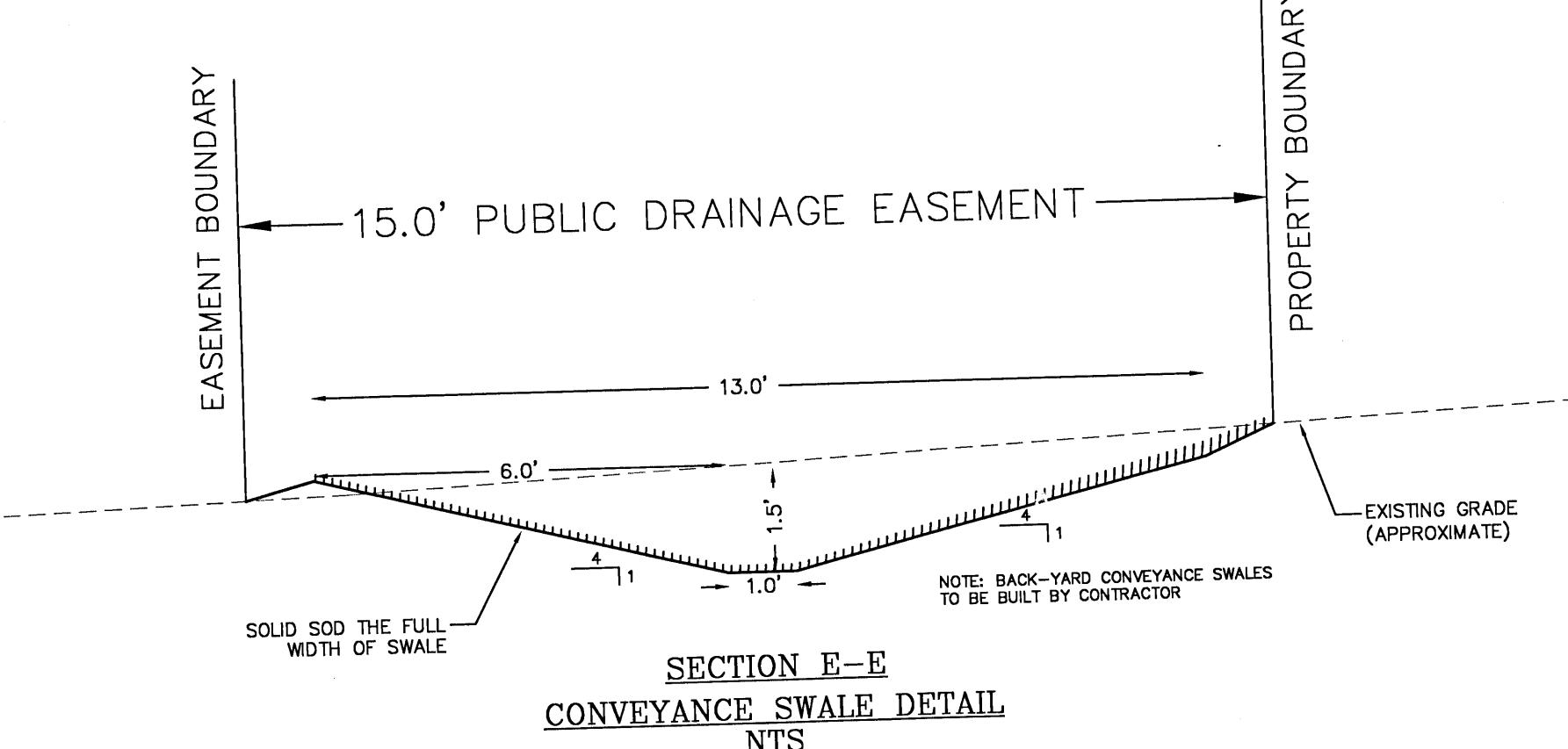
NORTH



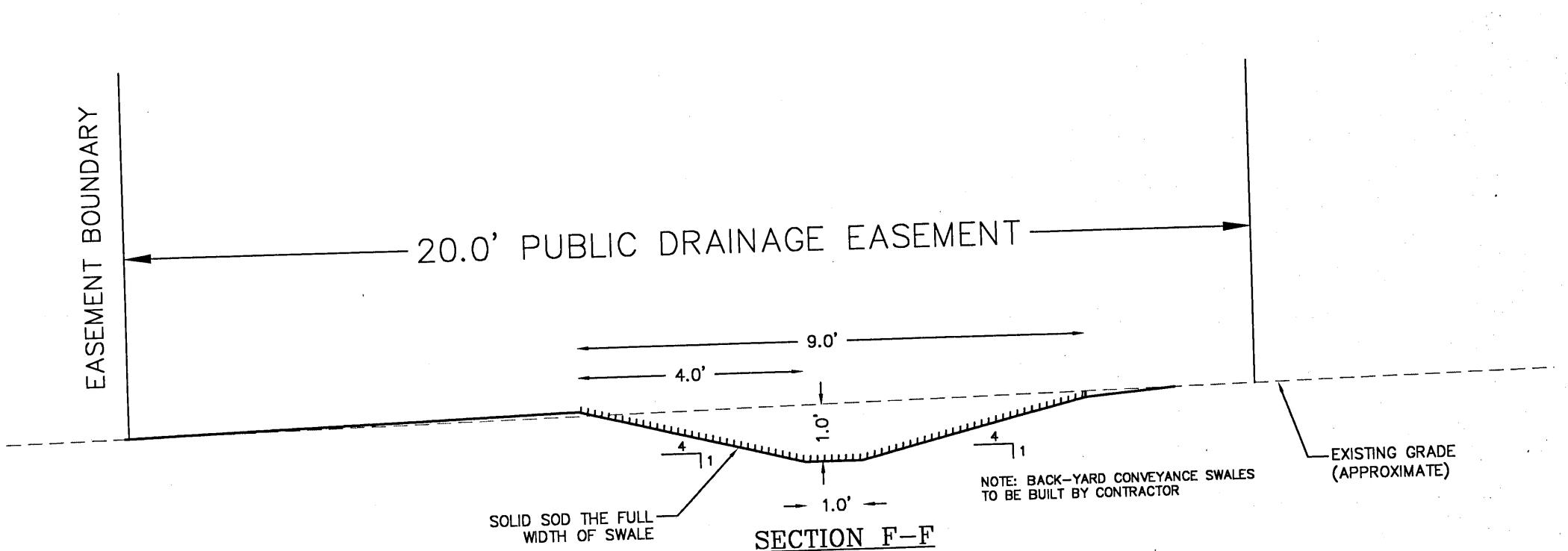
### PROFILE LOCATION



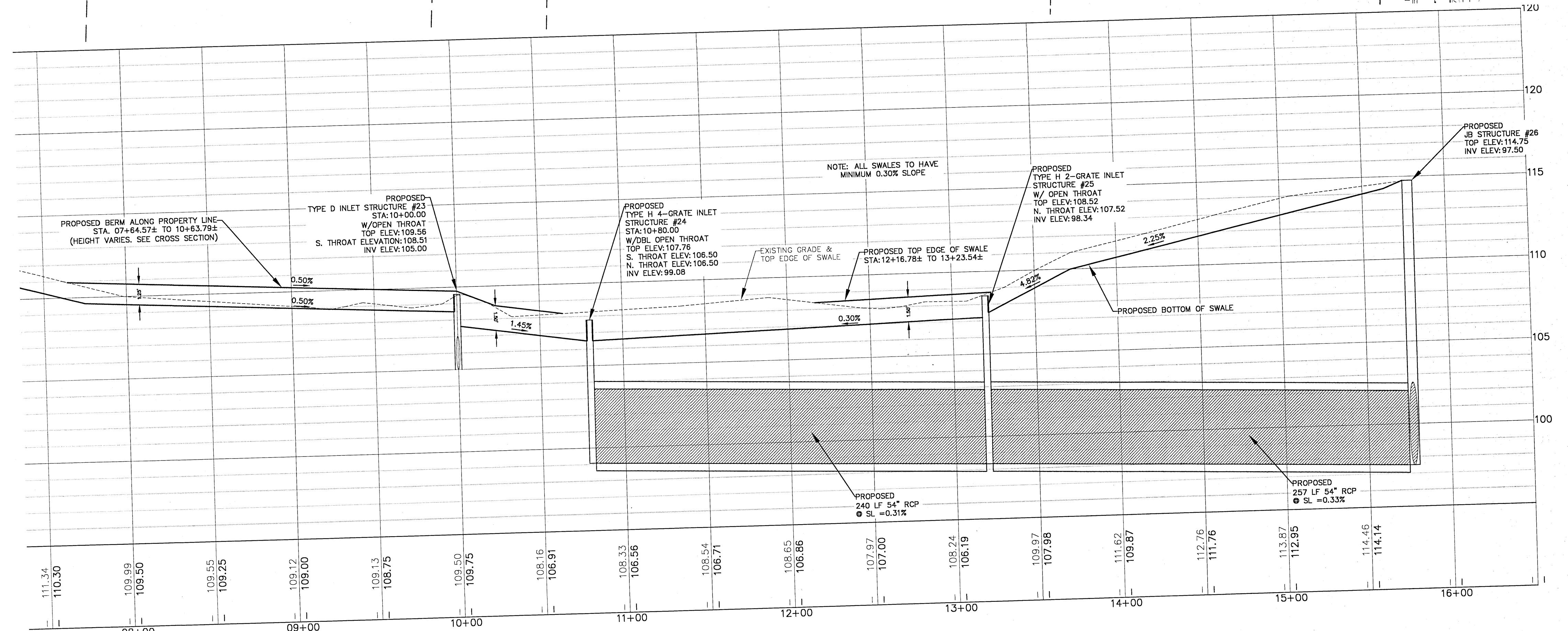
SECTION D-D  
CONVEYANCE SWALE DETAIL  
NTS



SECTION E-E  
CONVEYANCE SWALE DETAIL



SECTION F-F  
CONVEYANCE SWALE DETAIL  
NTS

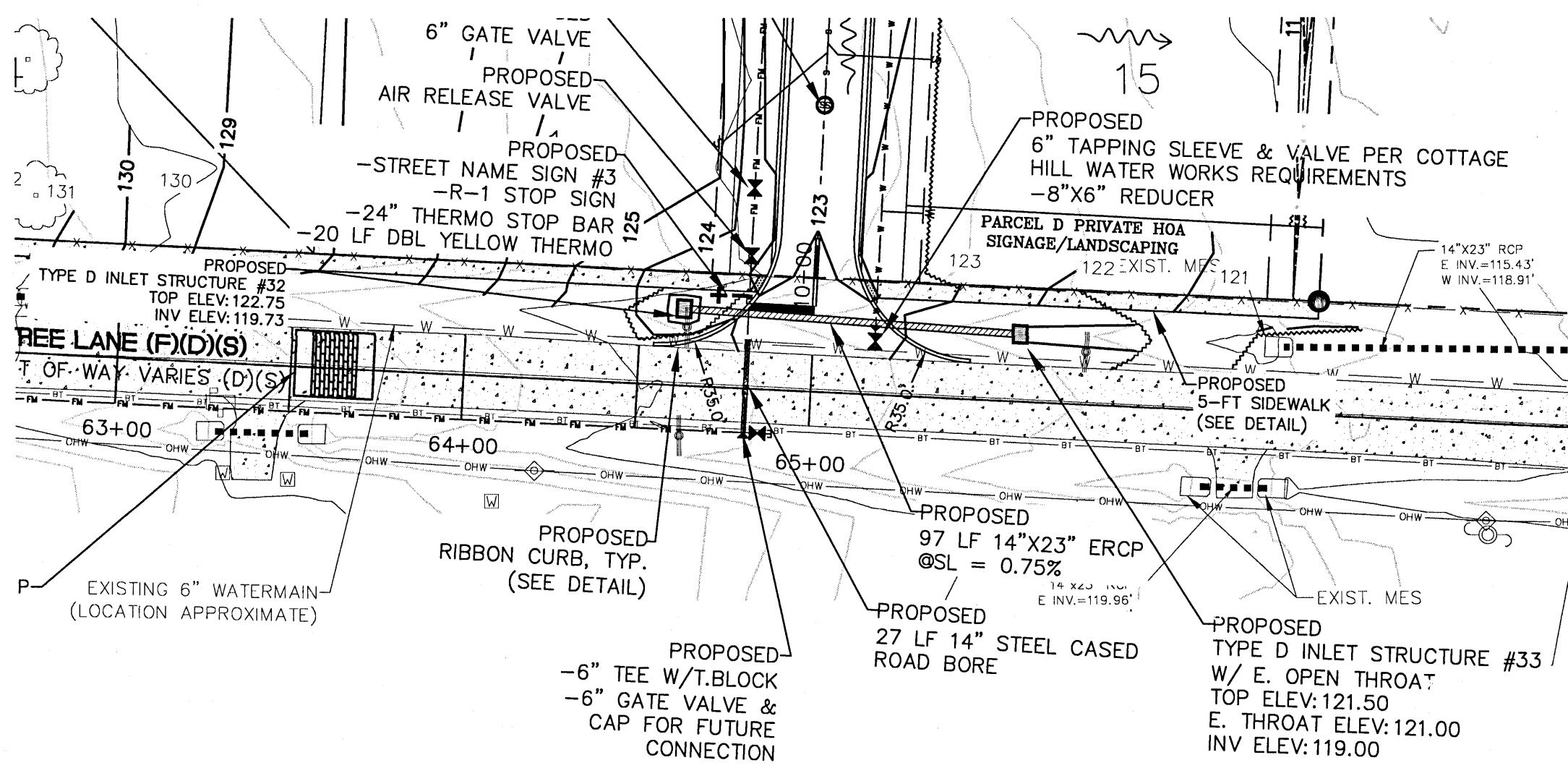
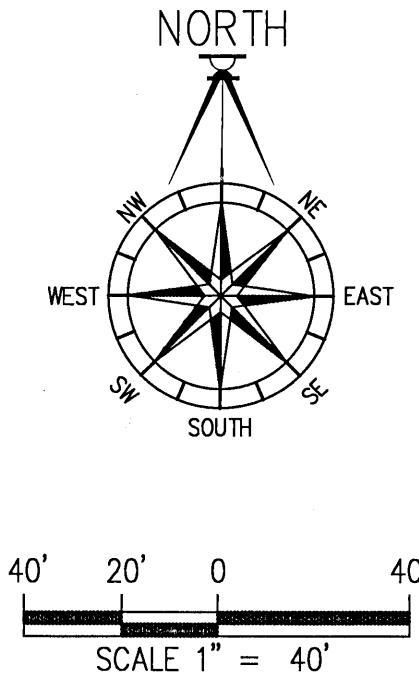


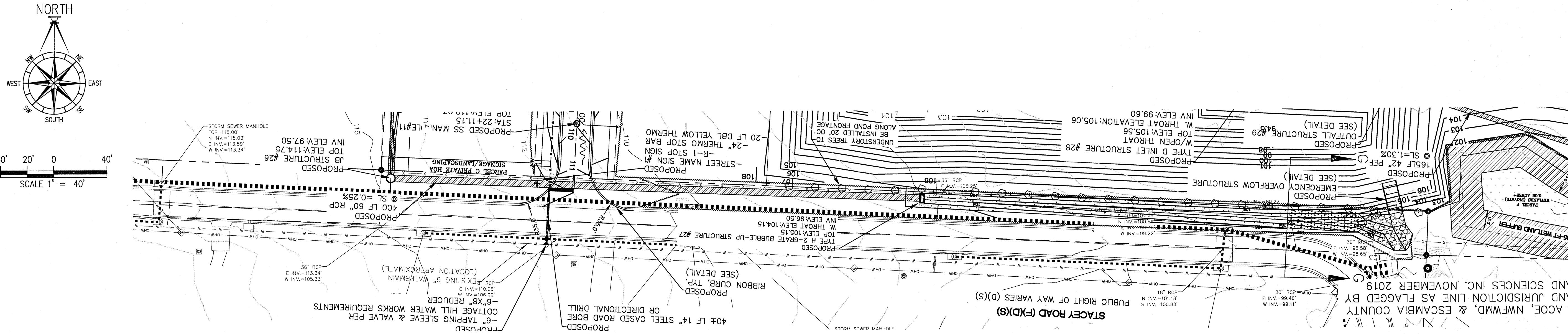
# PECAN VALLEY

**PROFESSIONAL ENGINEER, P.A.**  
**BOARD OF PROFESSIONAL REGULATION #0000842**  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534

: (850)476-8677 FAX: (850)476-7708

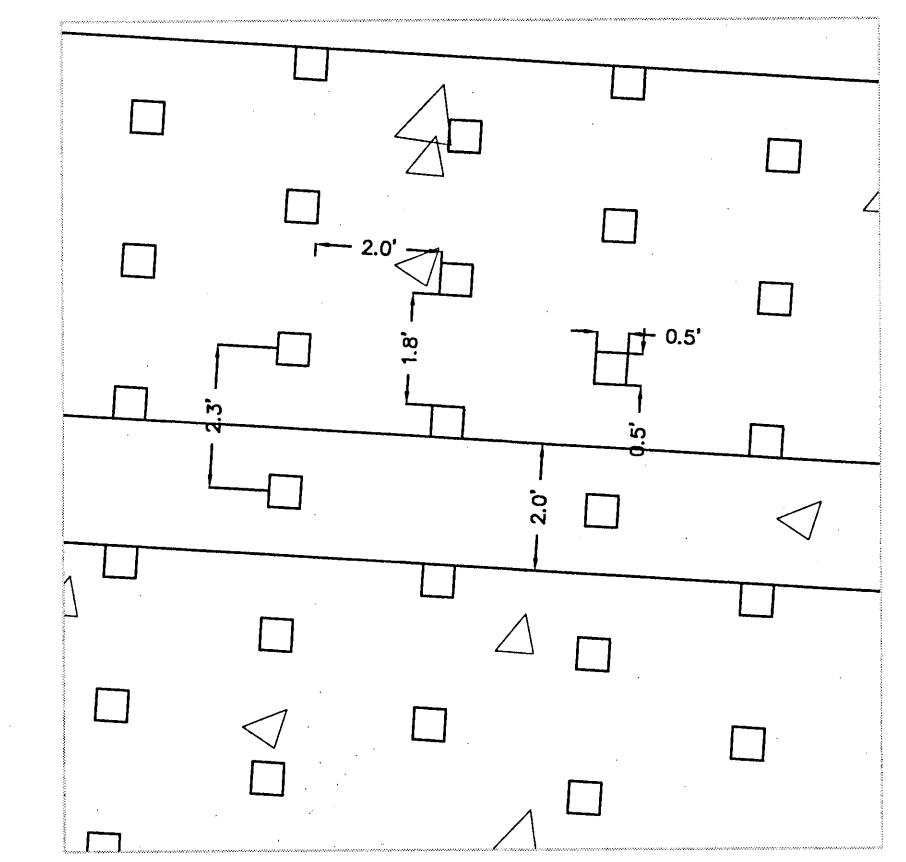
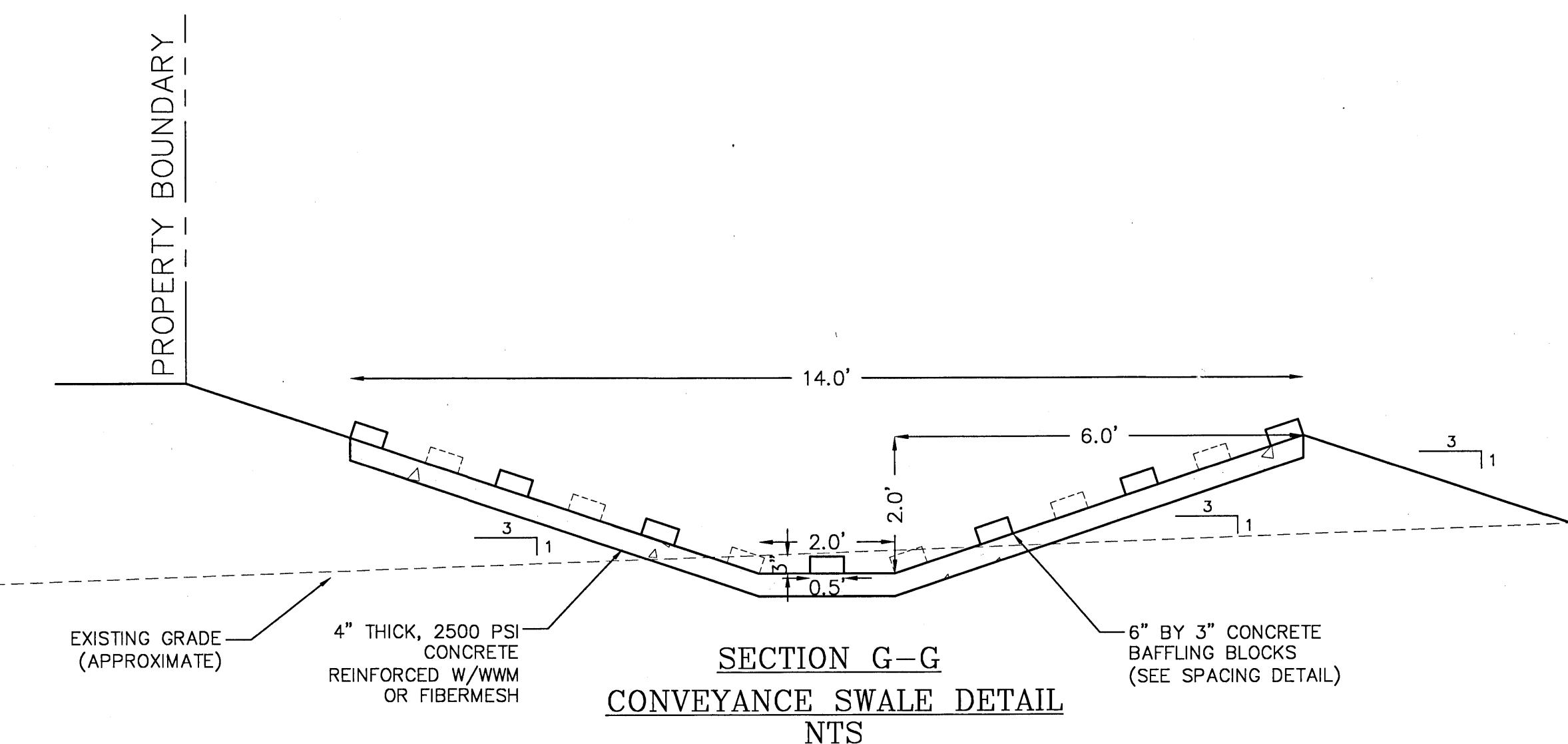
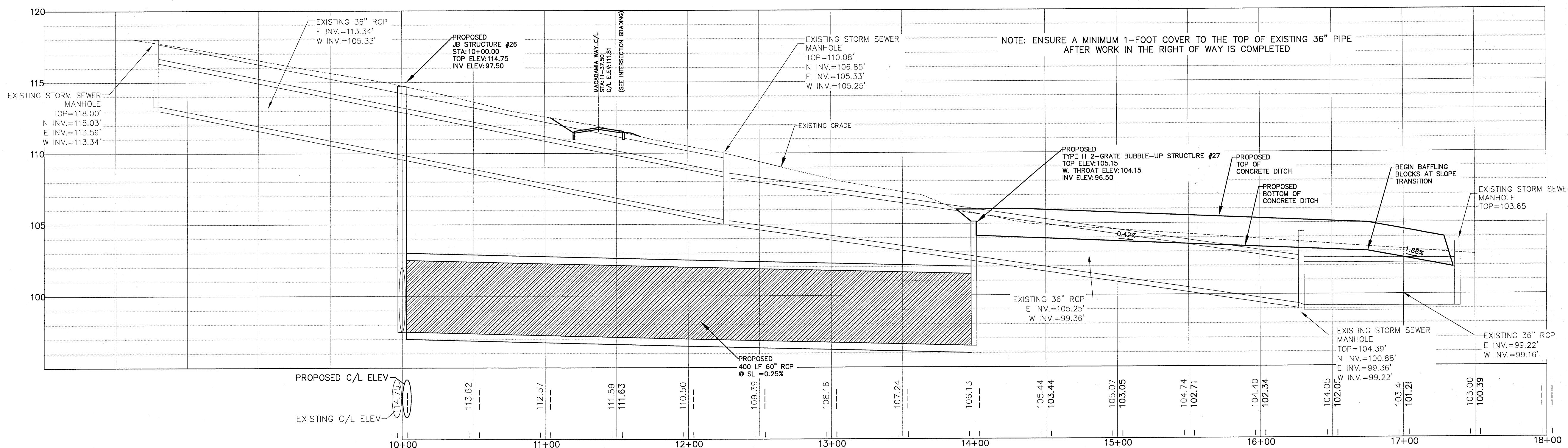
DRAWN BY: B. PEMENT						
DESIGNED BY: D. FITZPATRICK						
<u>SIGNATURE &amp; SEAL</u>						
<p>DAVID W. FITZPATRICK LICENSE NO. 47818 JULY 19, 2021 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 07/19/21 PROJECT NUMBER: 19-049 PLOT DATE: 07/19/21 SHEET C21 OF C42</p>						





# PECAN VALLEY

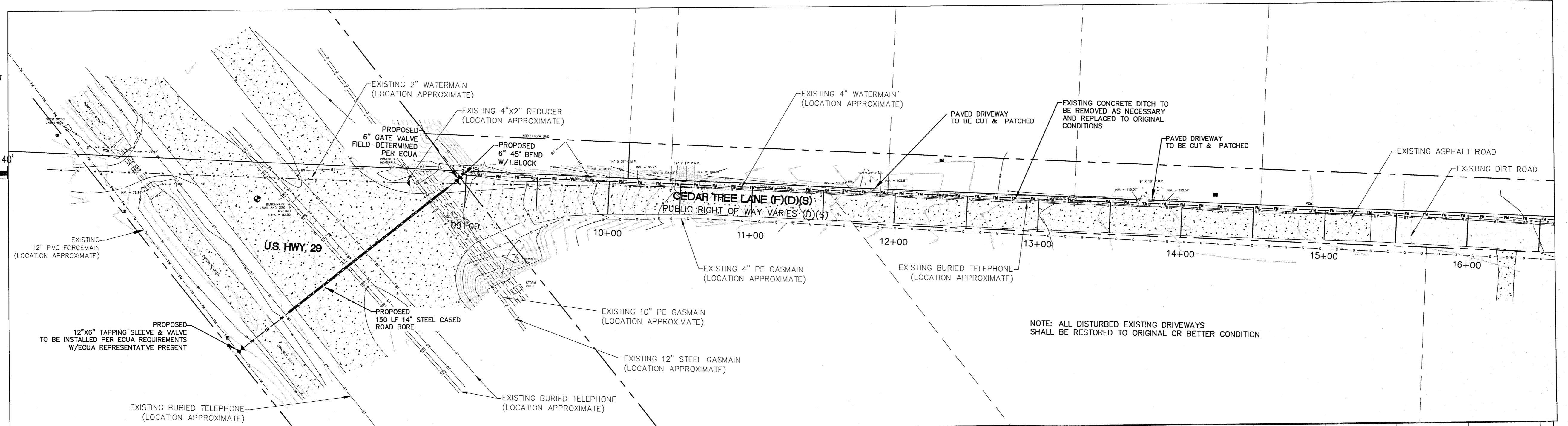
## OFFSITE STORM PLAN/PROFILE



# BAFFLING BLOCK SPACING DETAIL

## NTS

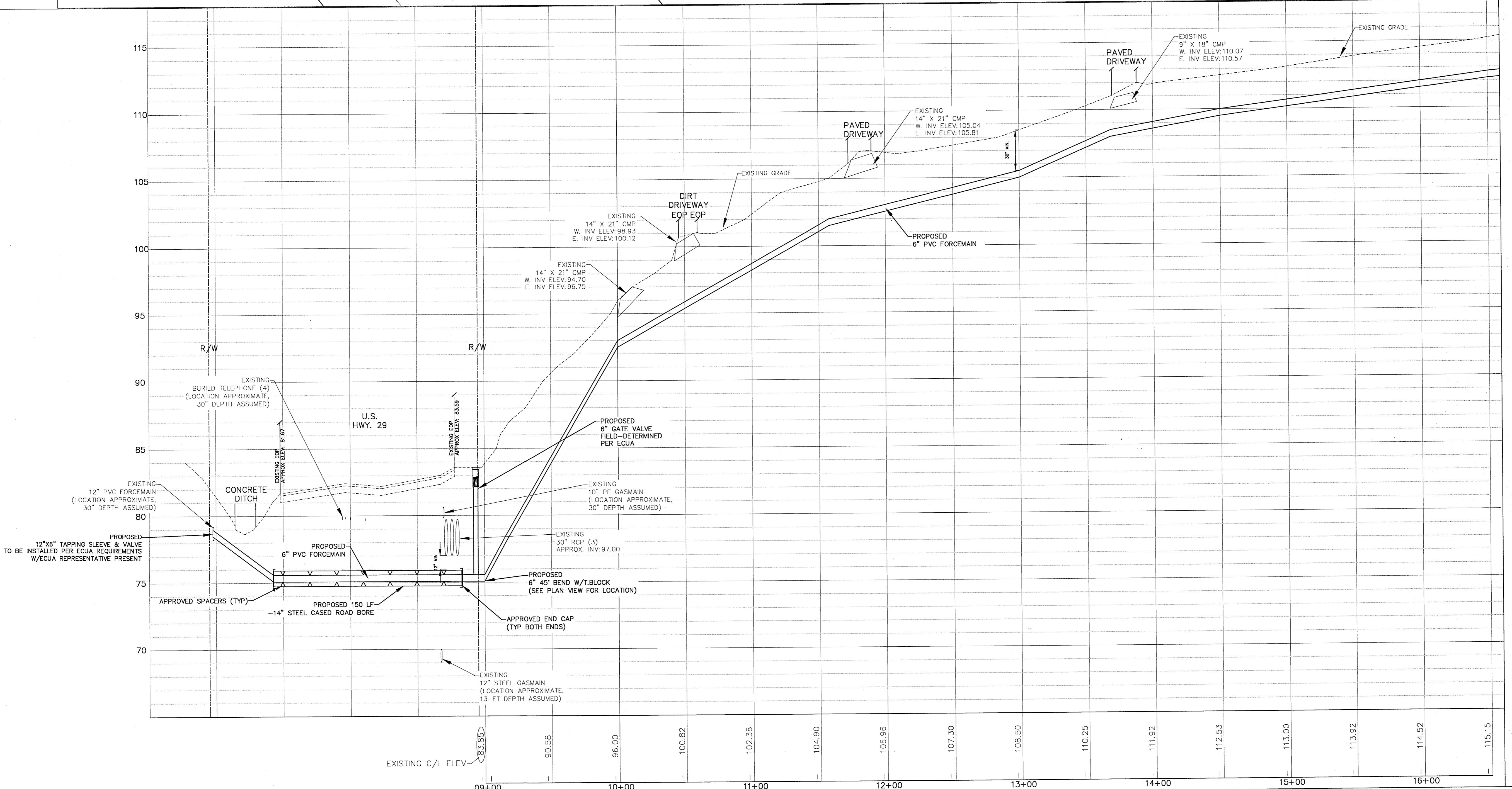
NORTH  
WEST 40' 20' 0 40'  
EAST  
SCALE 1" = 40'



DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #0000084423  
10250 N.W. 77TH STREET  
MIAMI, FL 33174  
PH: (305) 775-8177 FAX: (305) 776-7708

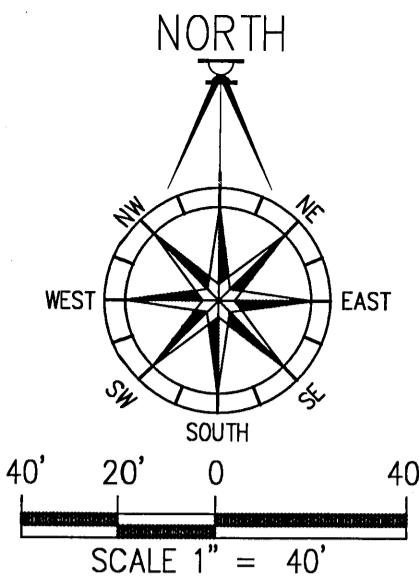
## PECAN VALLEY

OFFSITE SEWER

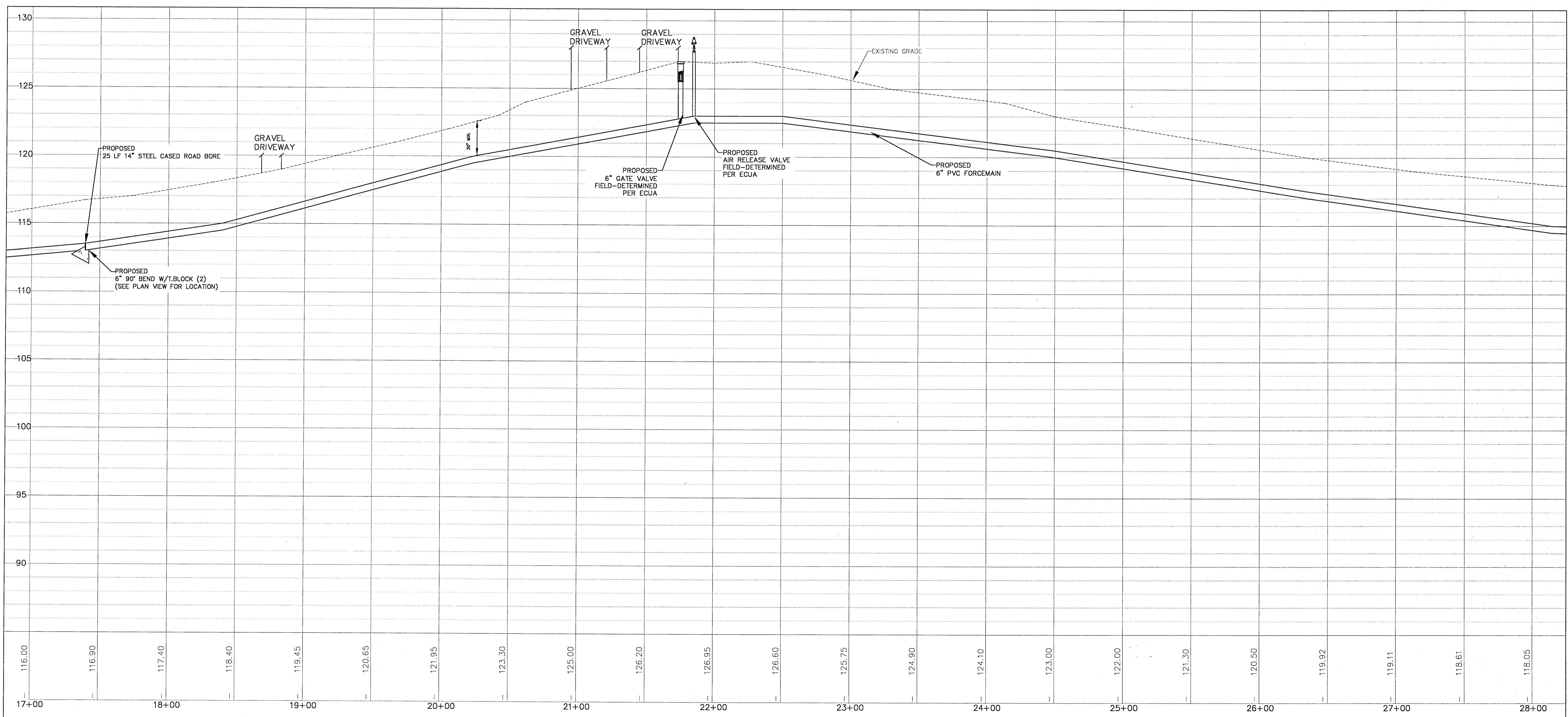
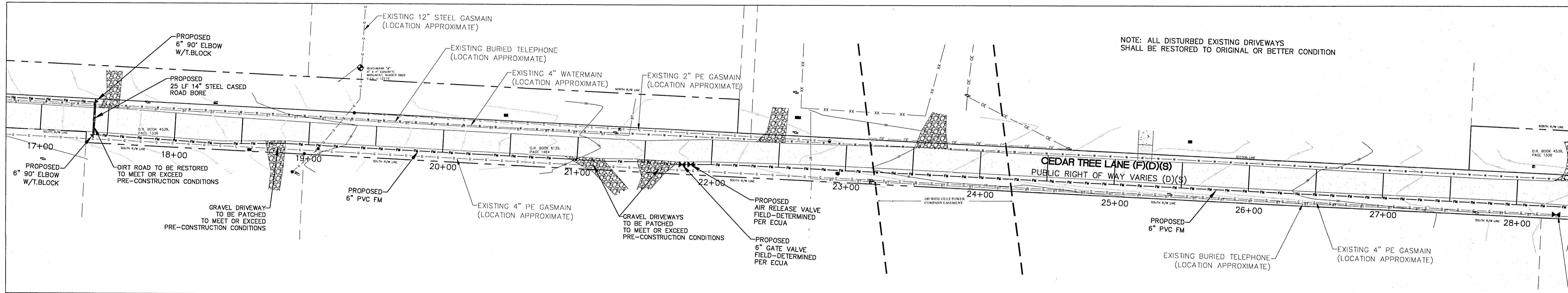


NUMBER	REVISION	DATE
DRAWN BY: B. PEMENT		
DESIGNED BY: D. FITZPATRICK		
SIGNATURE & SEAL		

07/19/21  
C24 of C42



SCALE 1" = 40'



## PECAN VALLEY

OFFSITE SEWER

NUMBER	REVISION	DATE

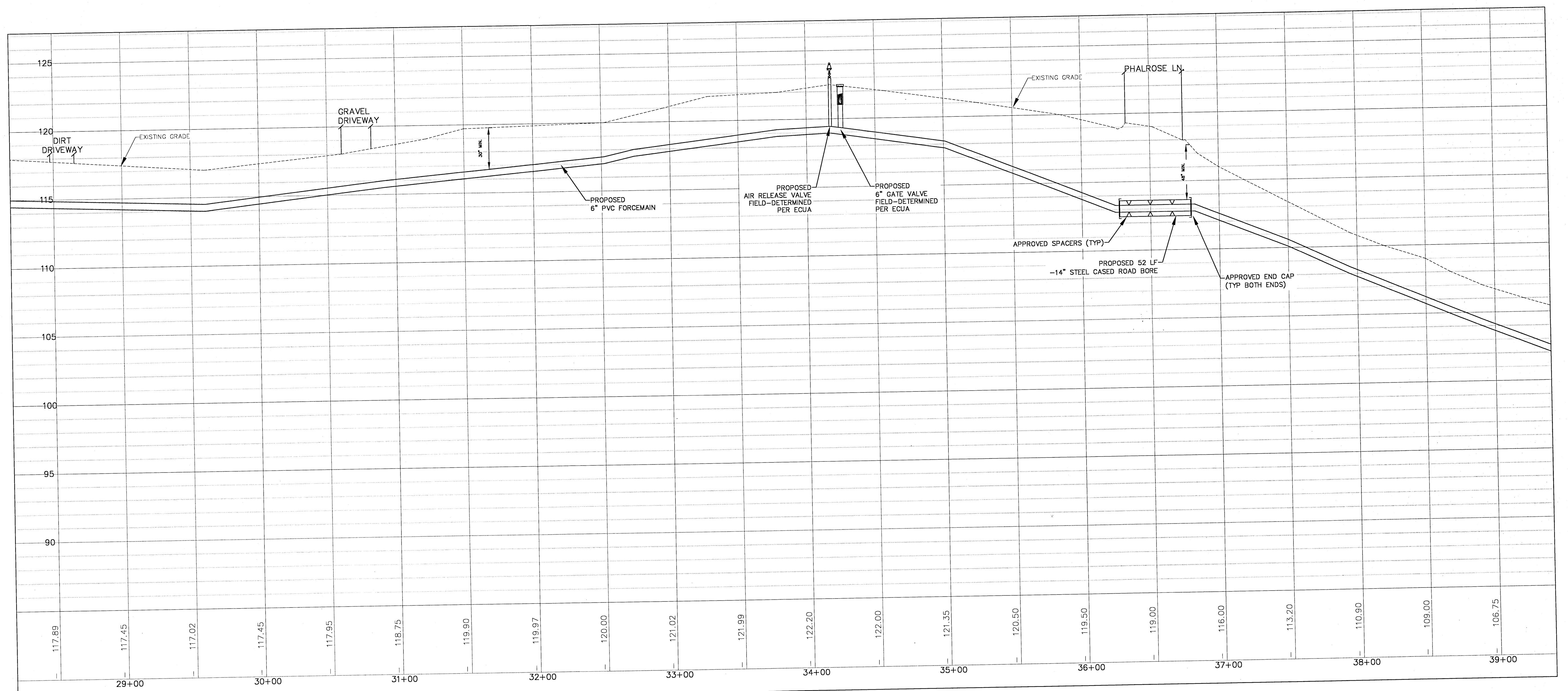
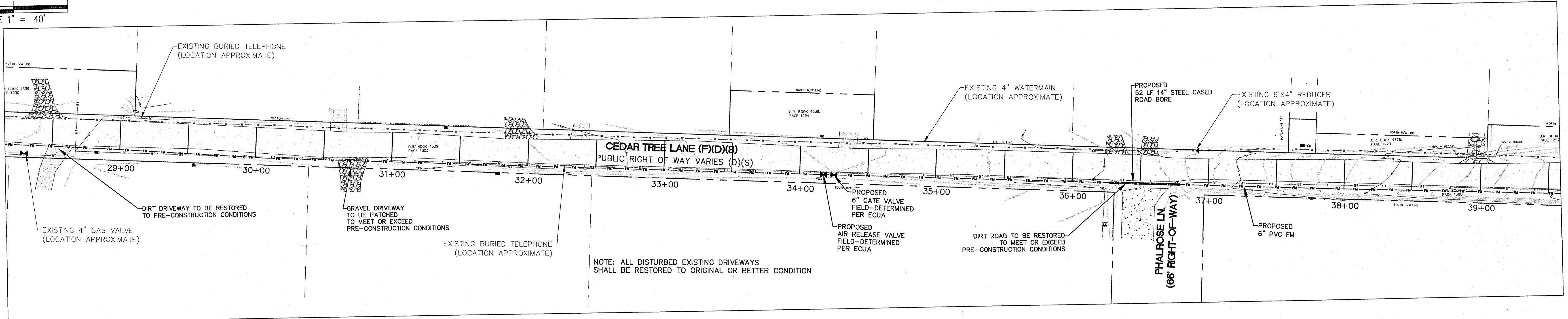
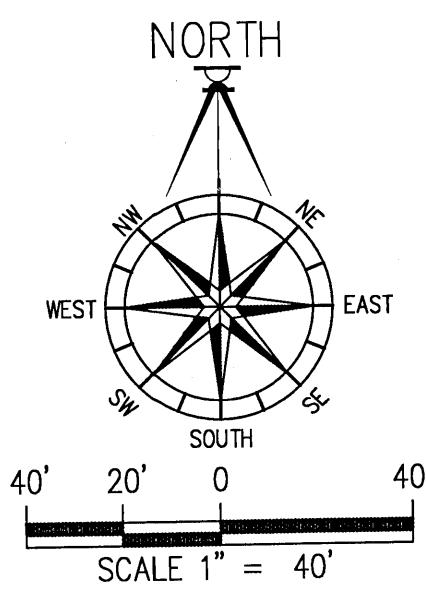
DRAWN BY:  
B. PEMENT  
DESIGNED BY:  
D. FITZPATRICK

SIGNATURE & SEAL  
D. W. FITZPATRICK  
LICENSURE NO. 47818  
STATE OF FLORIDA  
SIGNAL ENGINEER

PROJECT NUMBER 19-049  
PLOT DATE 07/19/21

Sheet C25 of C42

DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423  
10250 NORTH PALM COAST STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708



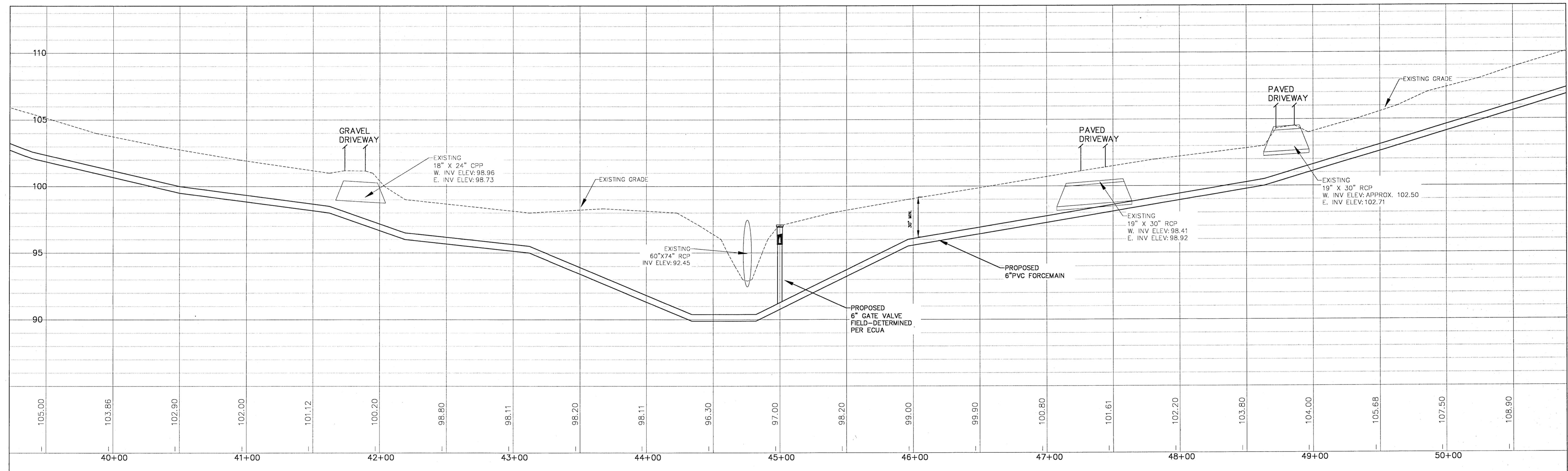
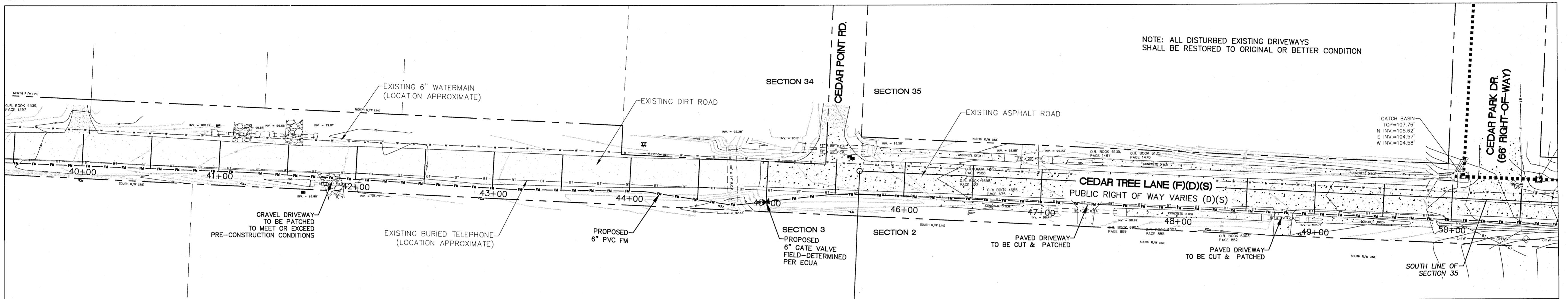
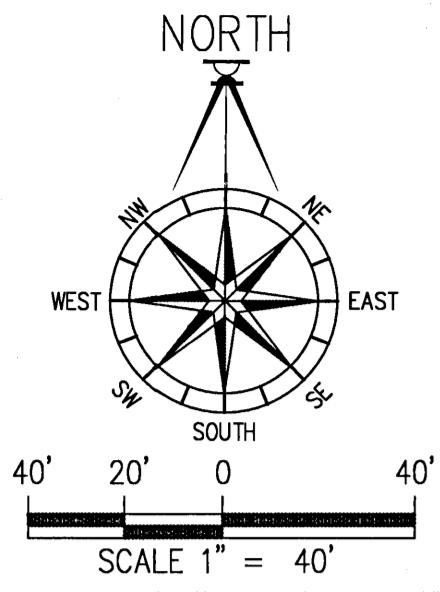
DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423

10250 NORTH PALMEX STREET  
PENSACOLA, FL 32554  
PH: (850)476-8677 FAX: (850)476-7708

## PECAN VALLEY

OFFSITE SEWER

NUMBER	REVISION	DATE
DRAWN BY:		
B. PEMENT		
DESIGNED BY:		
D. FITZPATRICK		
SIGNATURE & SEAL		
STATE OF FLORIDA PROFESSIONAL ENGINEER		
No. 47818		
DATE: 07/19/21		
PROJECT NUMBER: 19-049		
PLOT DATE: 07/19/21		
SHEET C26 OF C42		



DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423  
10250 NORTH PALMOS STREET  
PEPSICO, FL 33547  
Ph: (850)476-8677 Fax: (850)476-7708

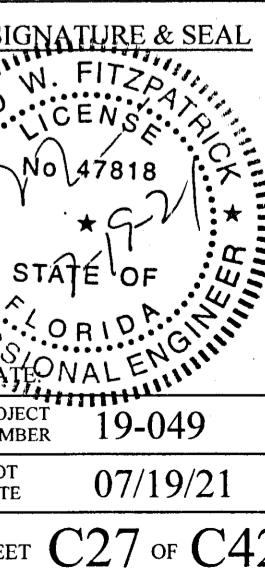
## PECAN VALLEY

OFFSITE SEWER

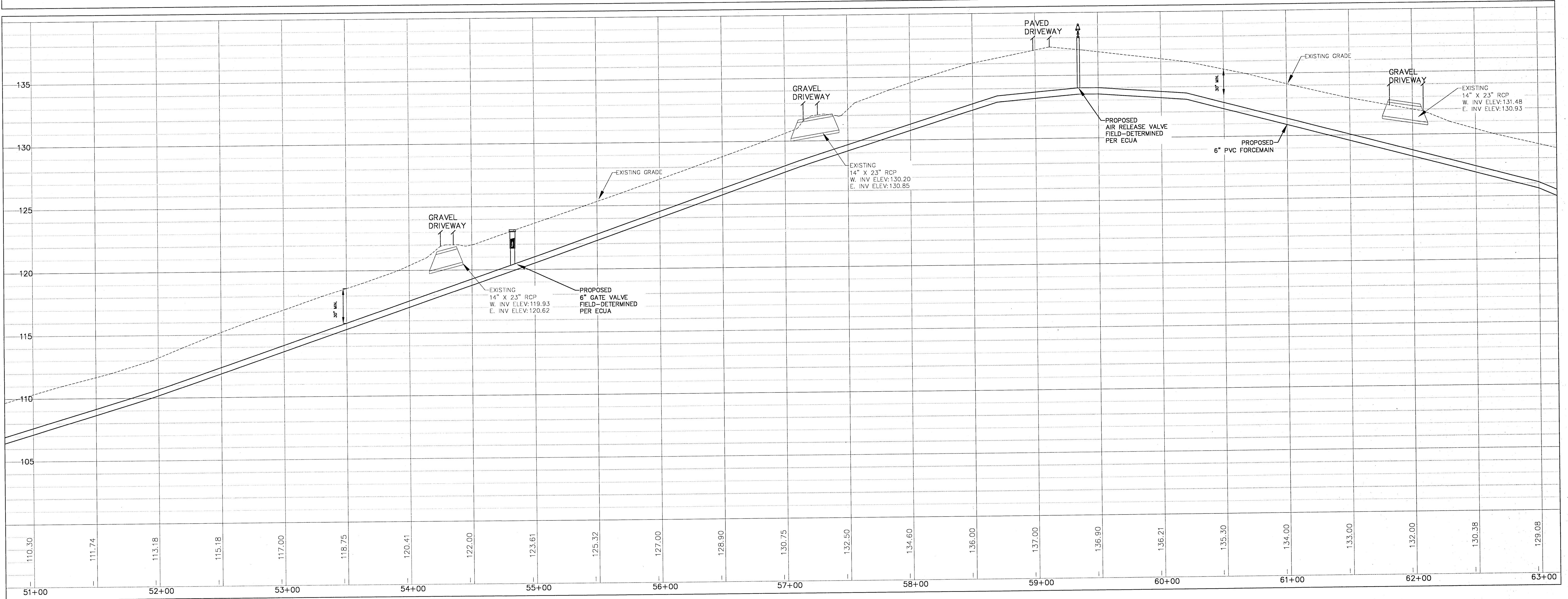
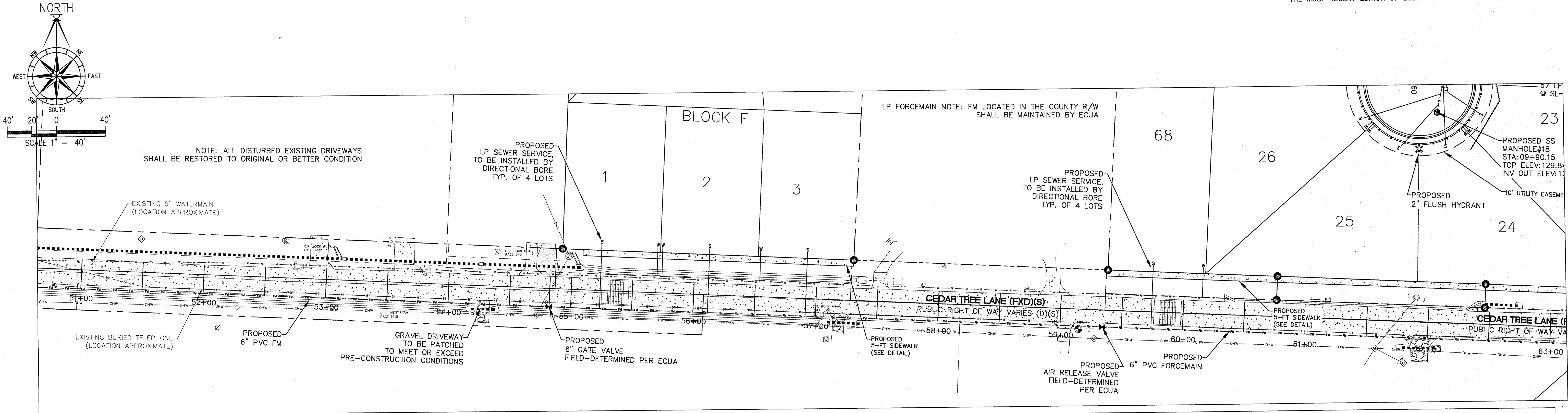
NUMBER	REVISION	DATE

DRAWN BY:  
B. PIMENT

DESIGNED BY:  
D. FITZPATRICK



PROJECT NUMBER 19-049  
LOT DATE 07/19/21  
SHEET C27 OF C42

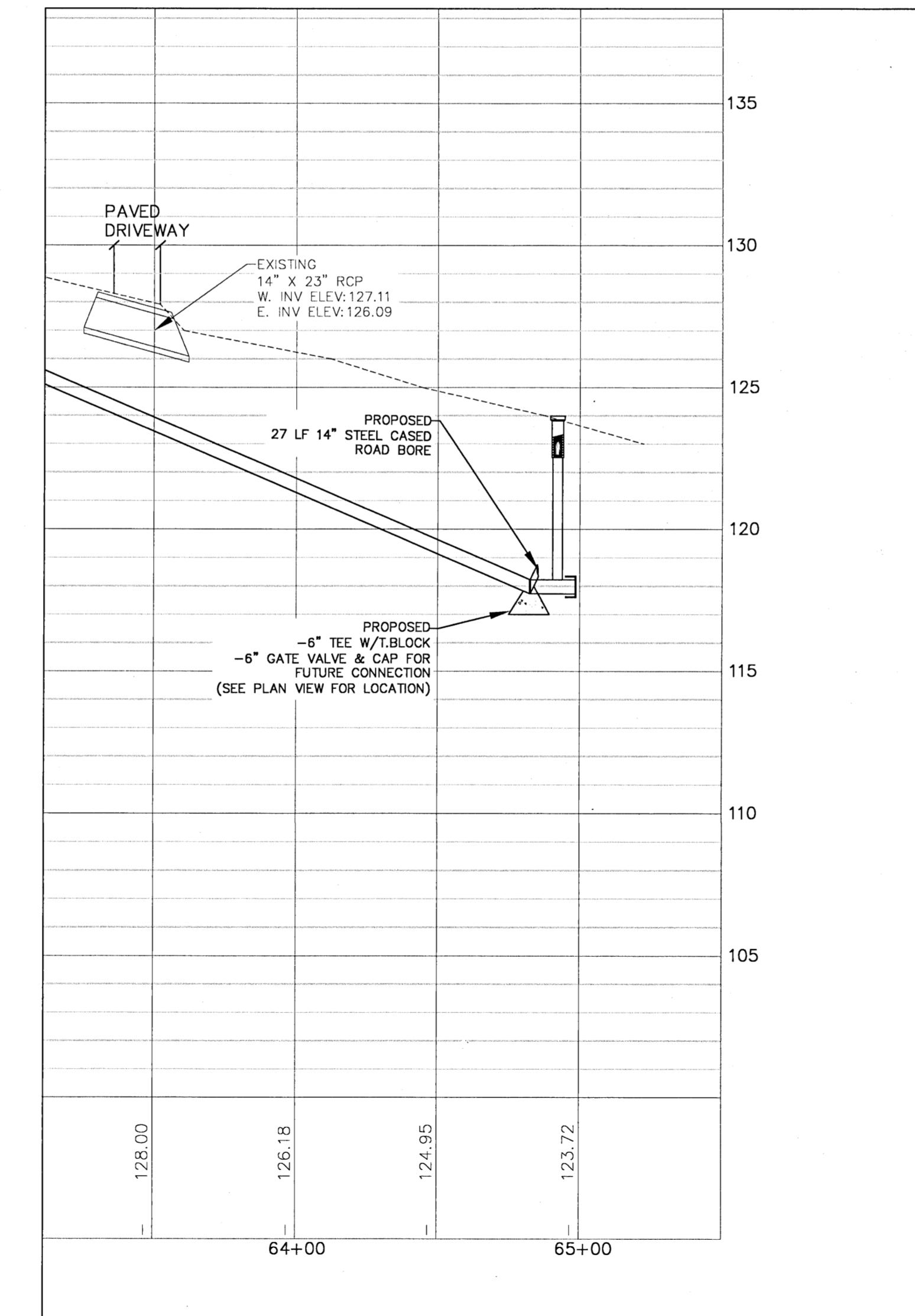
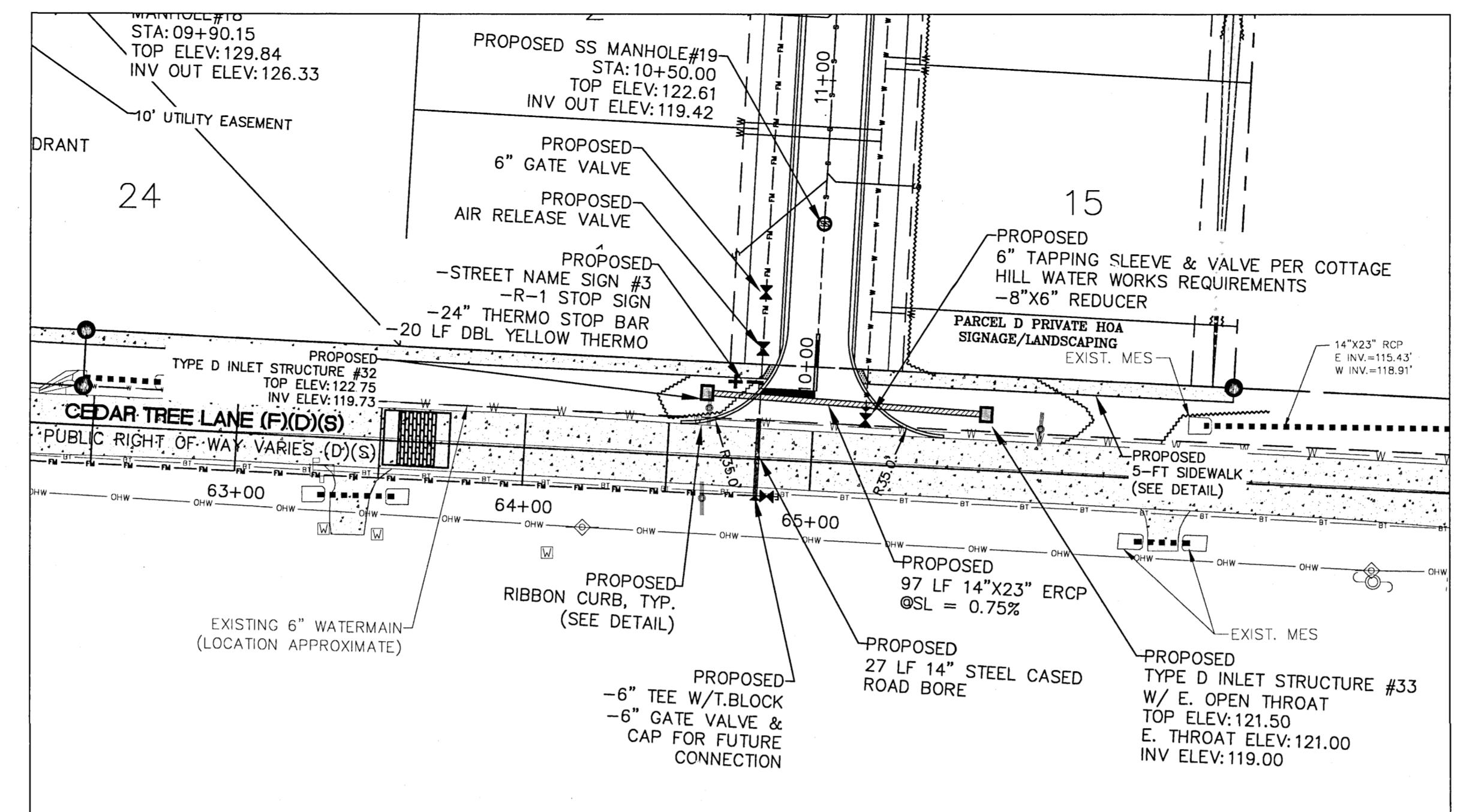
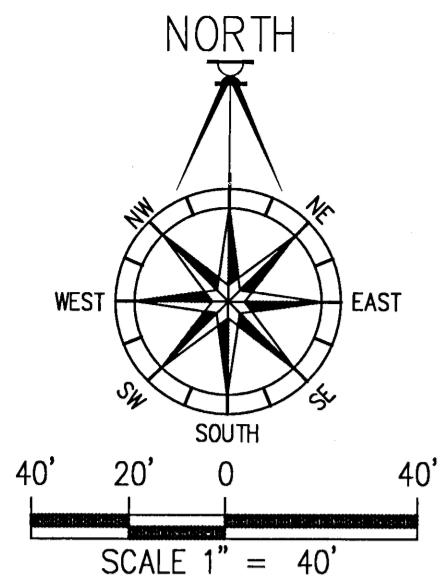


DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423  
10250 NORTH PALM FOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

## PECAN VALLEY

OFFSITE SEWER

NUMBER	REVISION
DRAWN BY: B. PEMENT	
DESIGNED BY: D. FITZPATRICK	
SIGNATURE & SEAL	
PROJECT NUMBER	19-049
PLOT DATE	07/19/21
SHEET	C28 OF C42



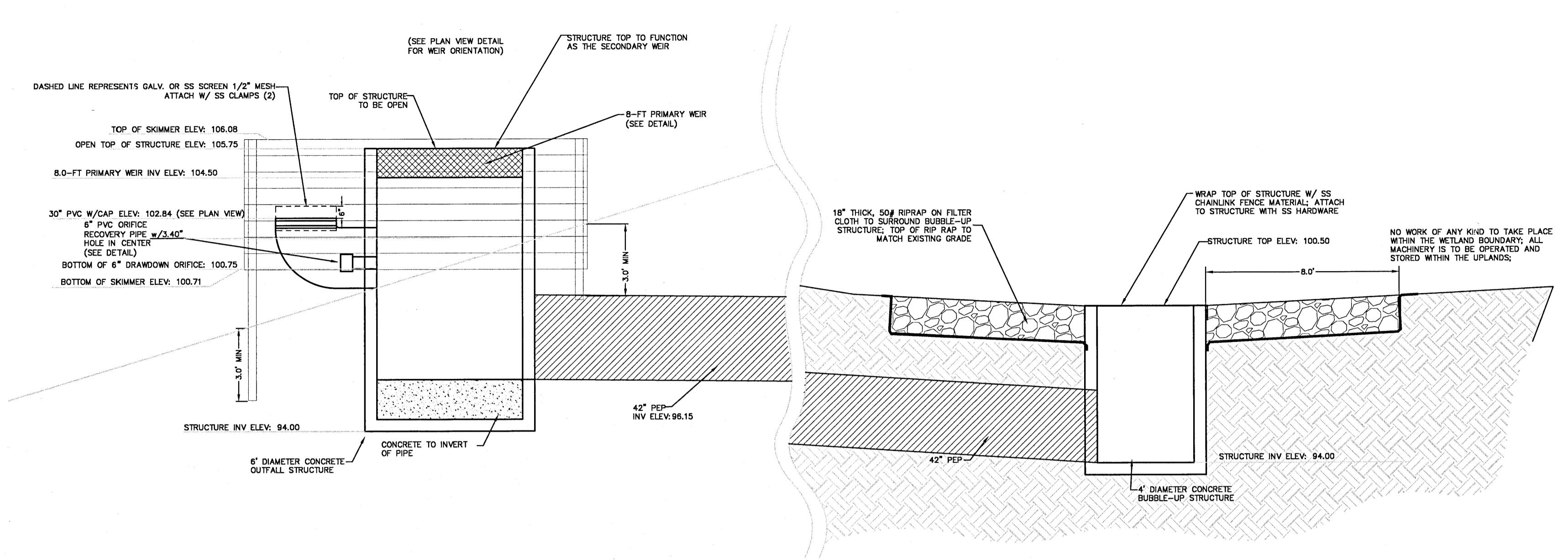
DAVID W. FITZPATRICK  
PROFESSIONAL ENGINEER, P.A.

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PECAN VALLEY

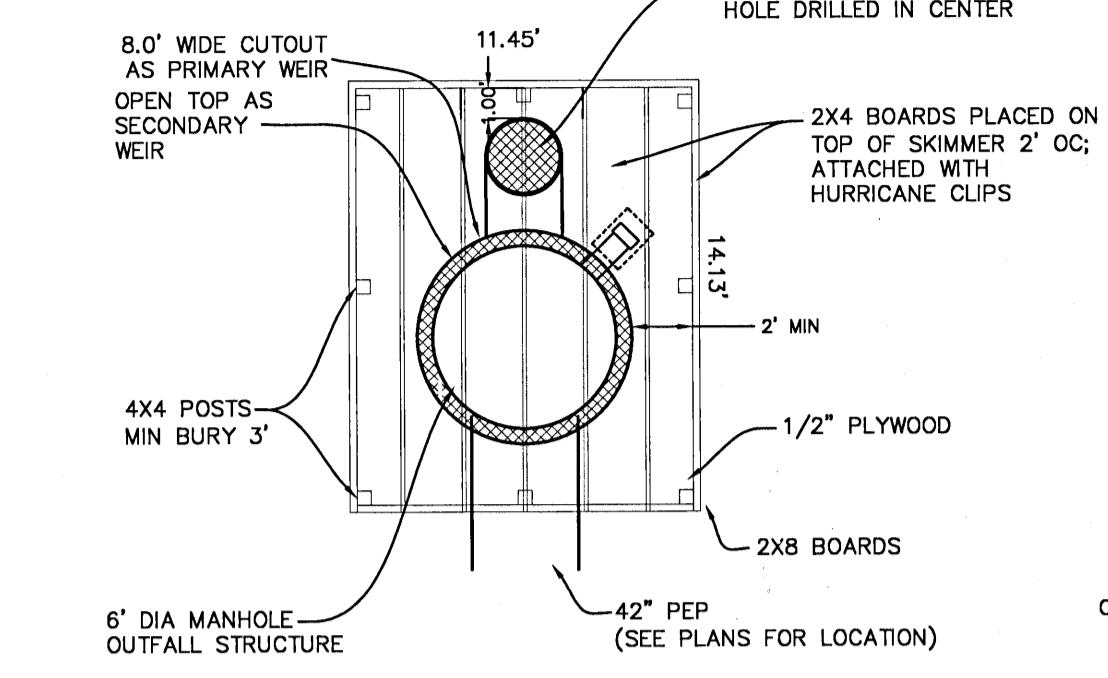
OFFSITE SEWER

NUMBER	REVISION	DATE
DRAWN BY: B. PEMENT		
DESIGNED BY: D. FITZPATRICK		
SIGNATURE & SEAL DAVID W. FITZPATRICK No 47818 * 92 * STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 07/19/21		
PLOT NUMBER 19-049		
PLOT DATE 07/19/21		
SHEET C29 OF C42		



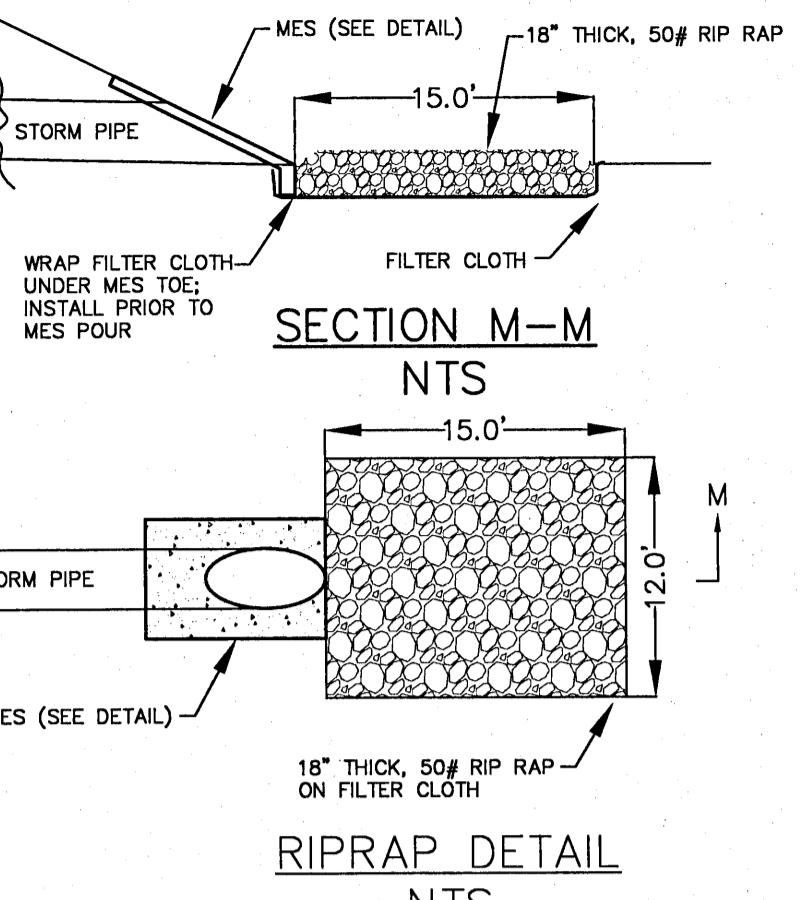
NOTE:  
USE TREATED 4x4 POSTS FOR CORNERS, MIN. BURY  
3'. USE 2x8 TREATED MATERIAL FOR SKIMMER  
BOARDS. USE 16d GALV. NAILS MIN. 2 PER  
CONNECTION.

ENTIRE INTERIOR SURFACE OF ALL SKIMMERS ARE TO  
BE LINED WITH SOLID 1/2" TREATED PLYWOOD  
ATTACHED TO 2X8'S WITH 1-1/2" SS WOOD SCREWS  
@ 18" OC.

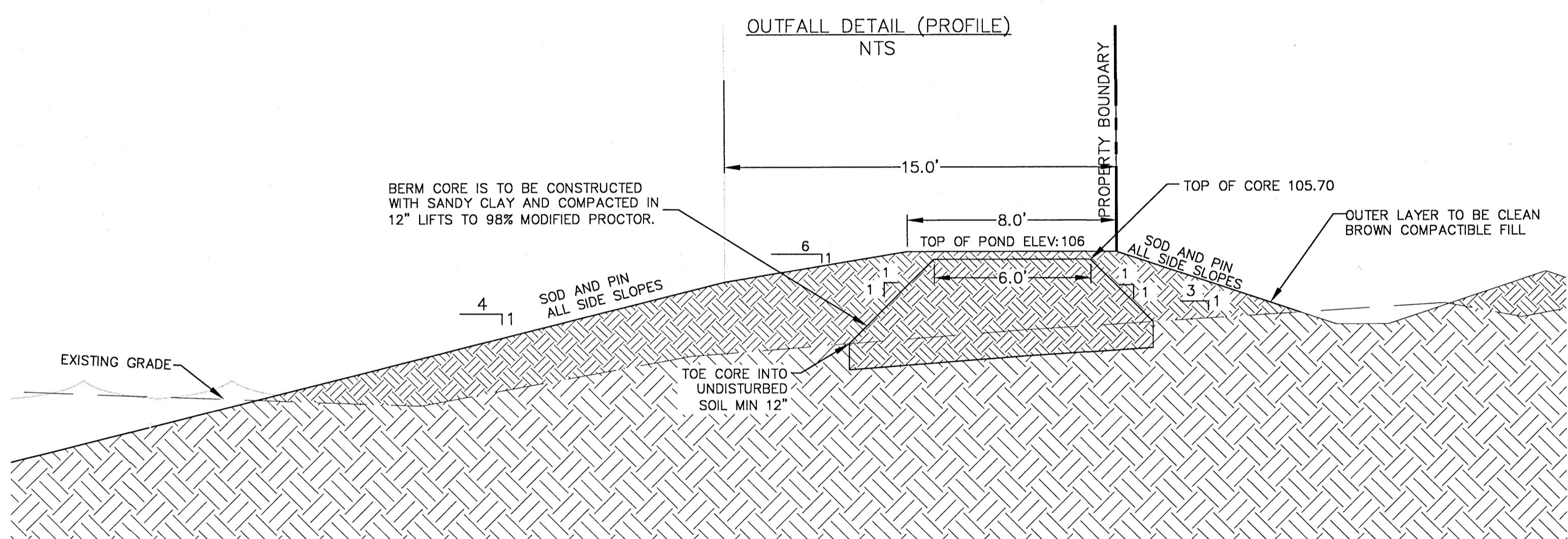


## OUTFALL DETAIL (PLAN)

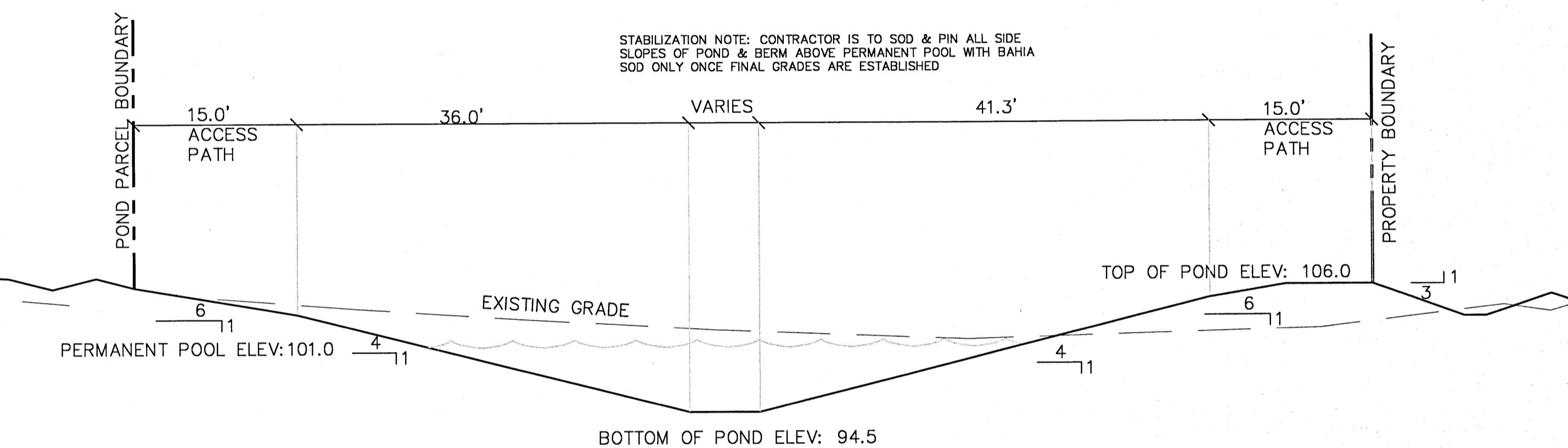
SECTION M-M



## RIPRAP DETAIL

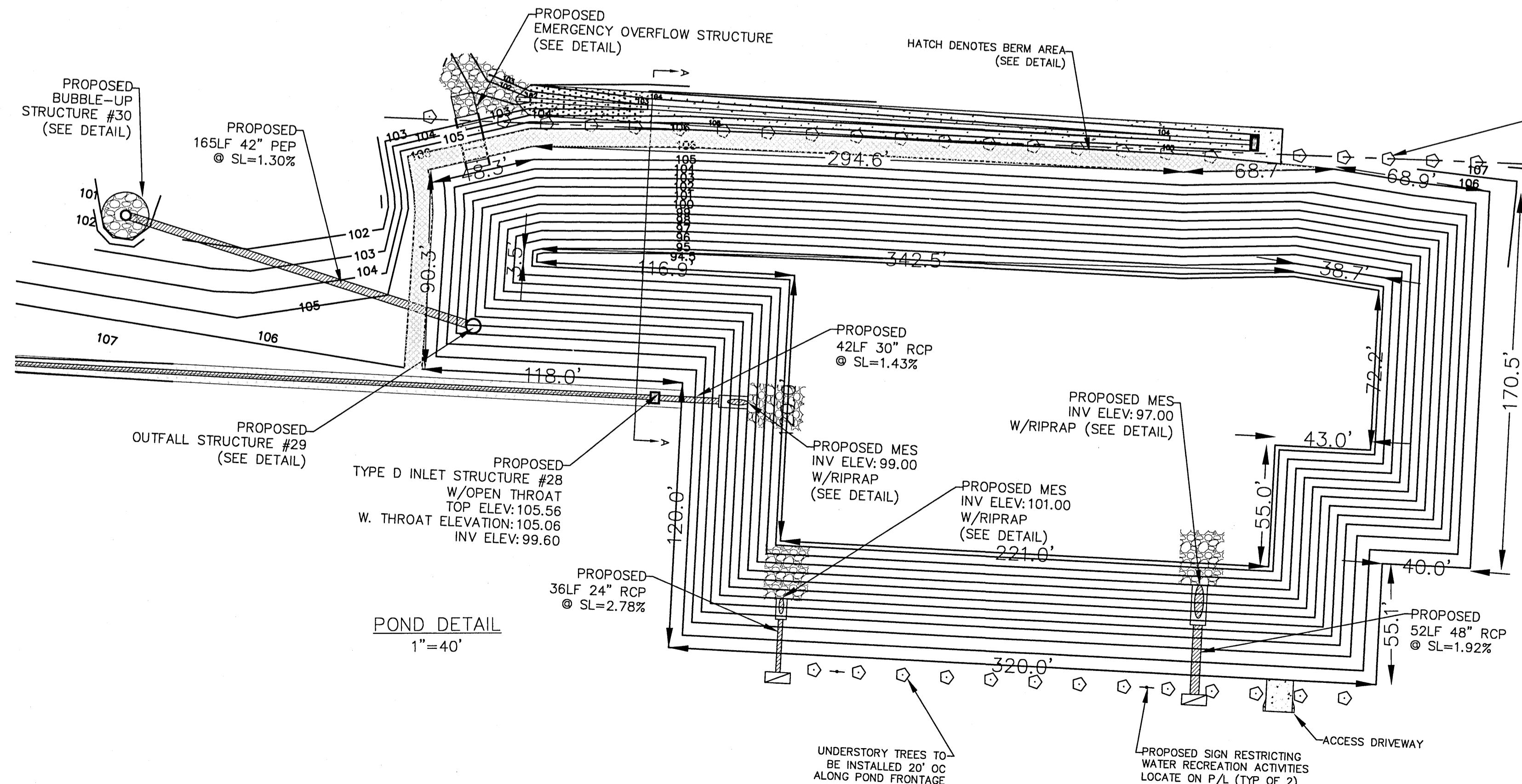


BERM DETAIL

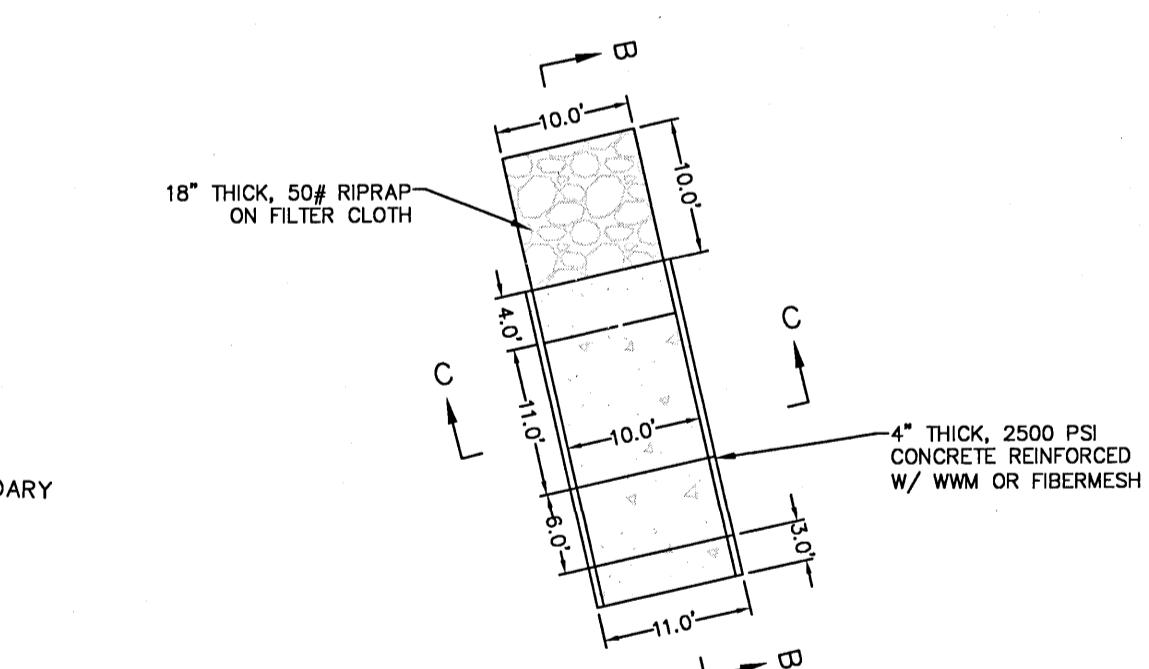


## POND SECTION A-A

NTS



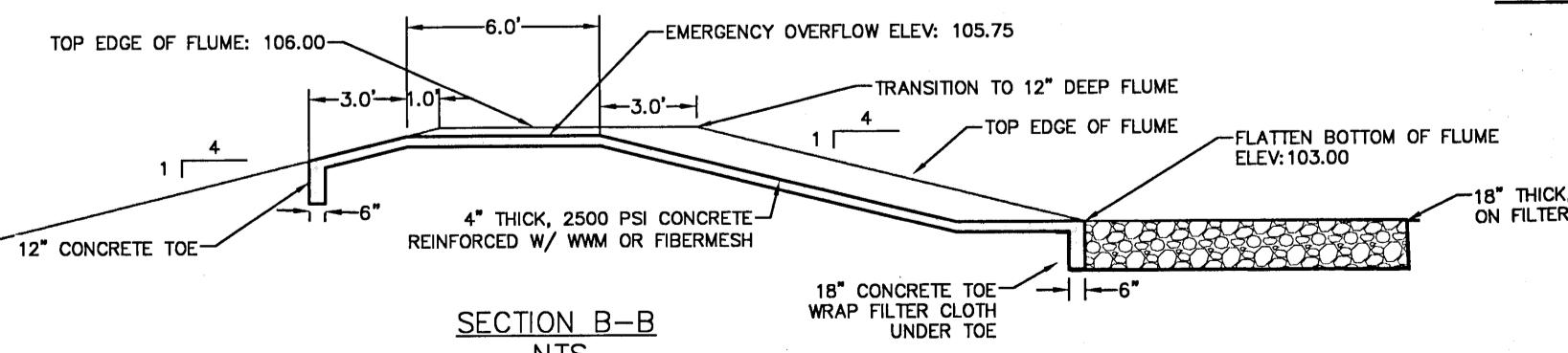
POND DETAIL



# EMERGENCY OVERFLOW STRUCTURE DETAIL

## NTS

SECTION C-C



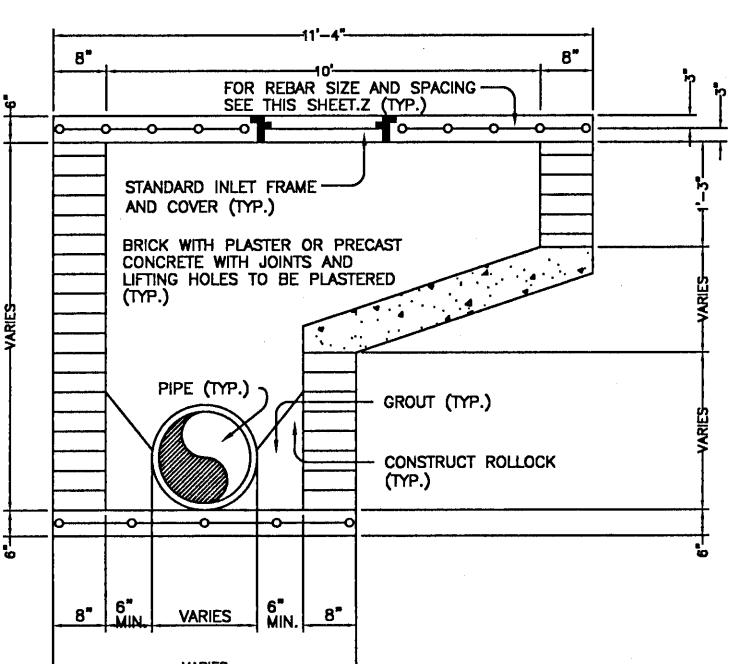
**POND ACCESS DRIVEWAY CONNECTION**

DATE							
REVISION							
NUMBER							
<p>DRAWN BY: B. PEMENT</p> <p>DESIGNED BY: D. FITZPATRICK</p> <p><b>SIGNATURE &amp; SEAL</b></p> <p>The circular seal contains the following text: "DAVID W. FITZPATRICK" at the top, "LICENSING &amp; SEAL" at the top right, "No. 47818" in the center, "PROFESSIONAL ENGINEER" along the bottom, "STATE OF FLORIDA" in the middle bottom, and "DATE 9/21" at the bottom right.</p> <p>PROJECT NUMBER 19-049</p> <p>PLOT DATE 07/19/21</p> <p>SHEET C30 OF C42</p>							

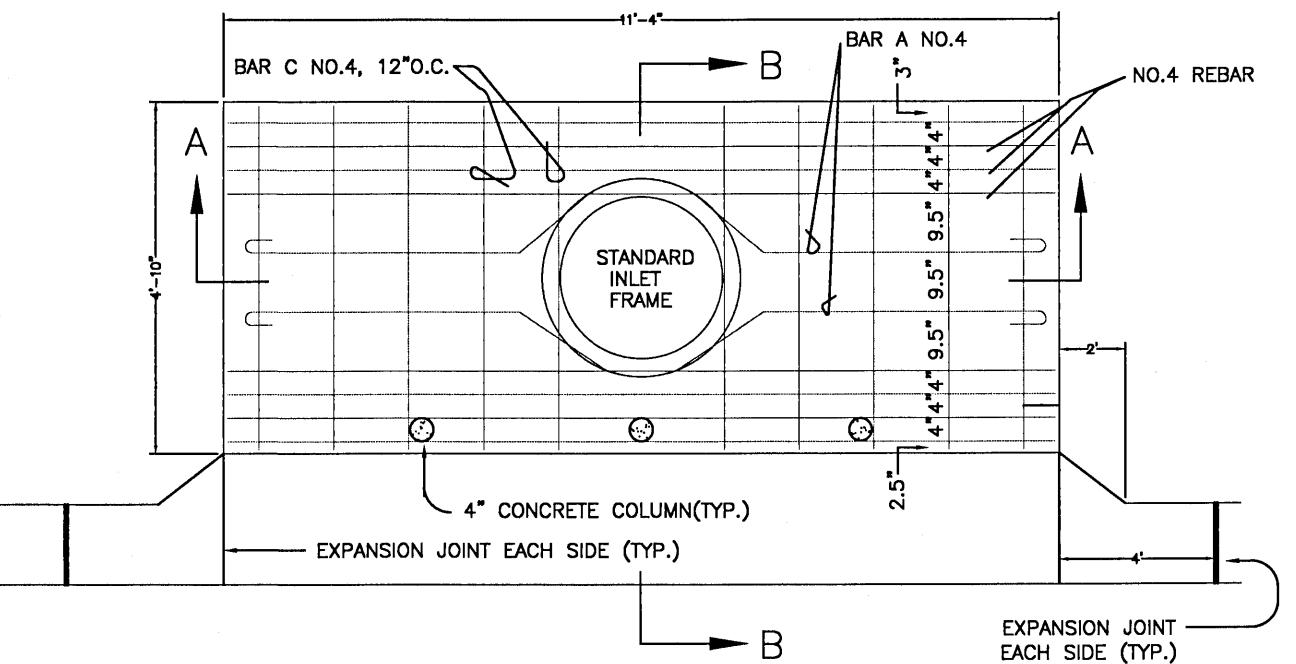


## PECAN VALLEY

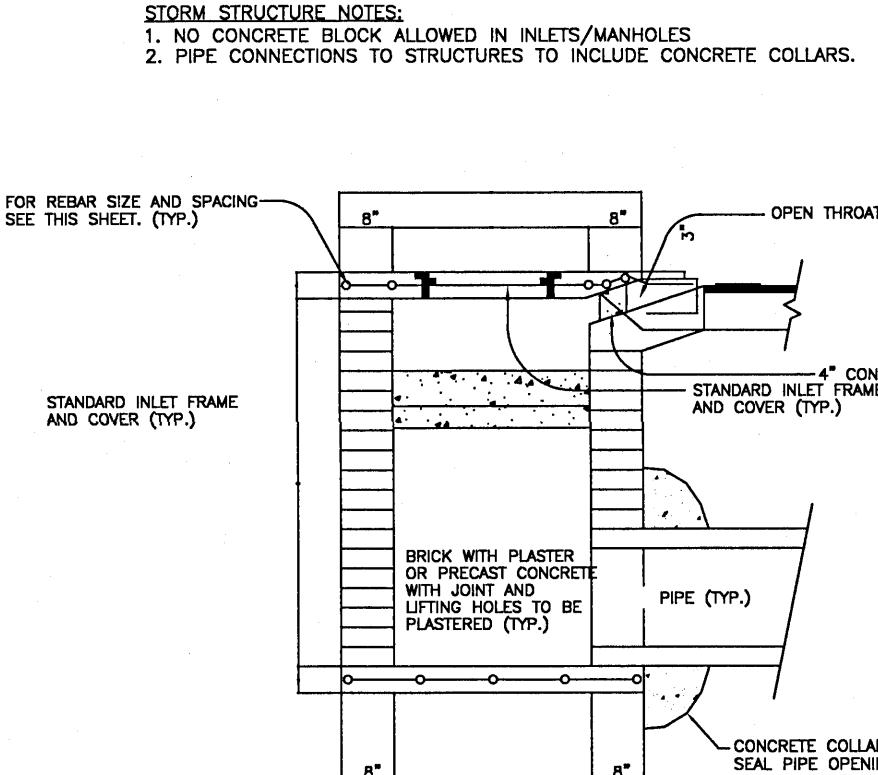
### DRAINAGE DETAILS



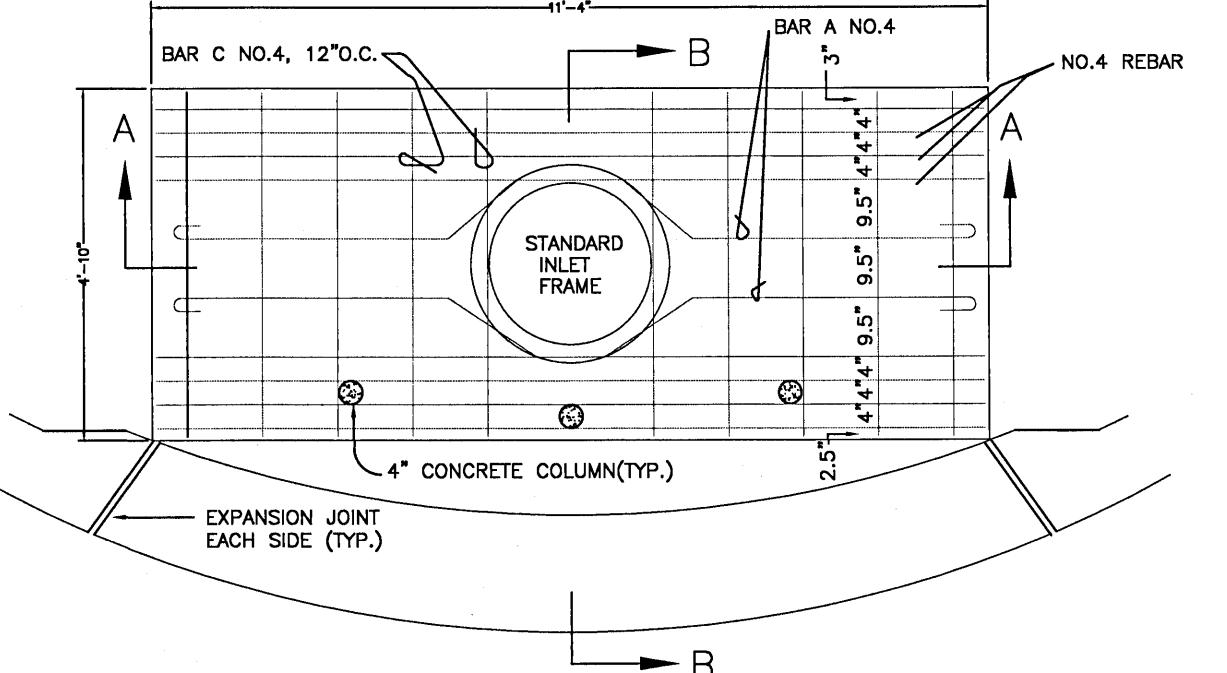
**SECTION "A-A"**



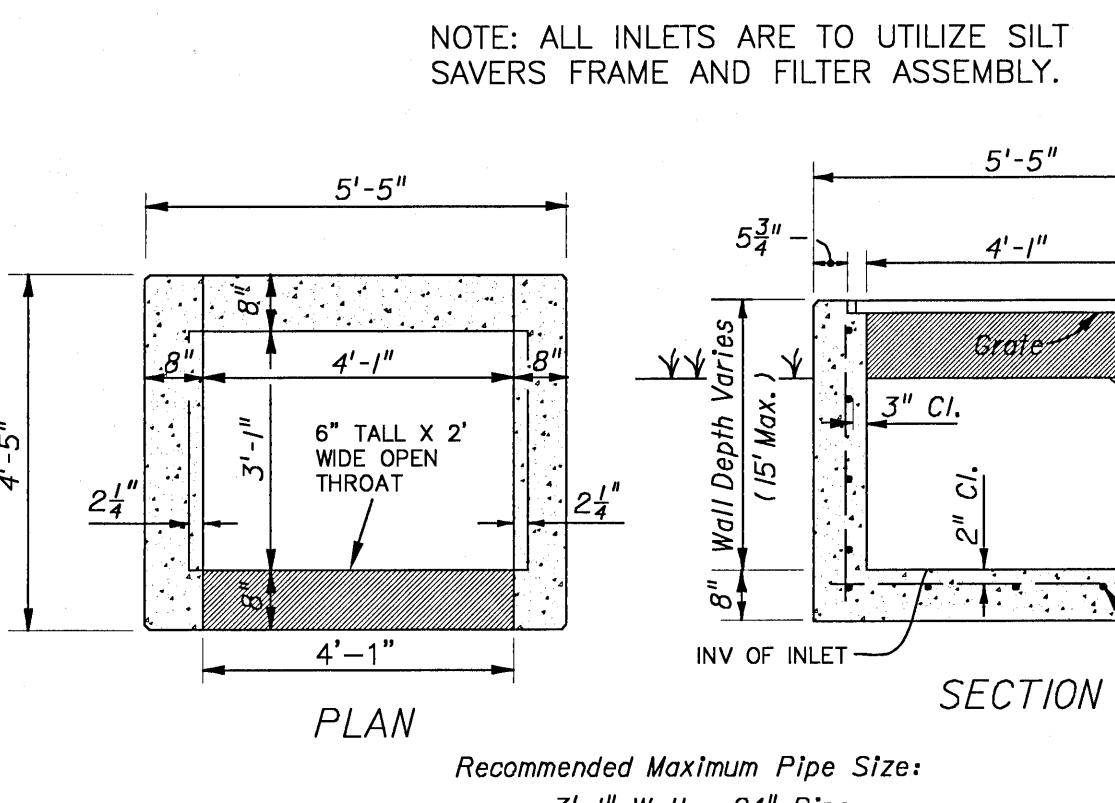
**TYPE 'A' DROP INLET DETAIL**



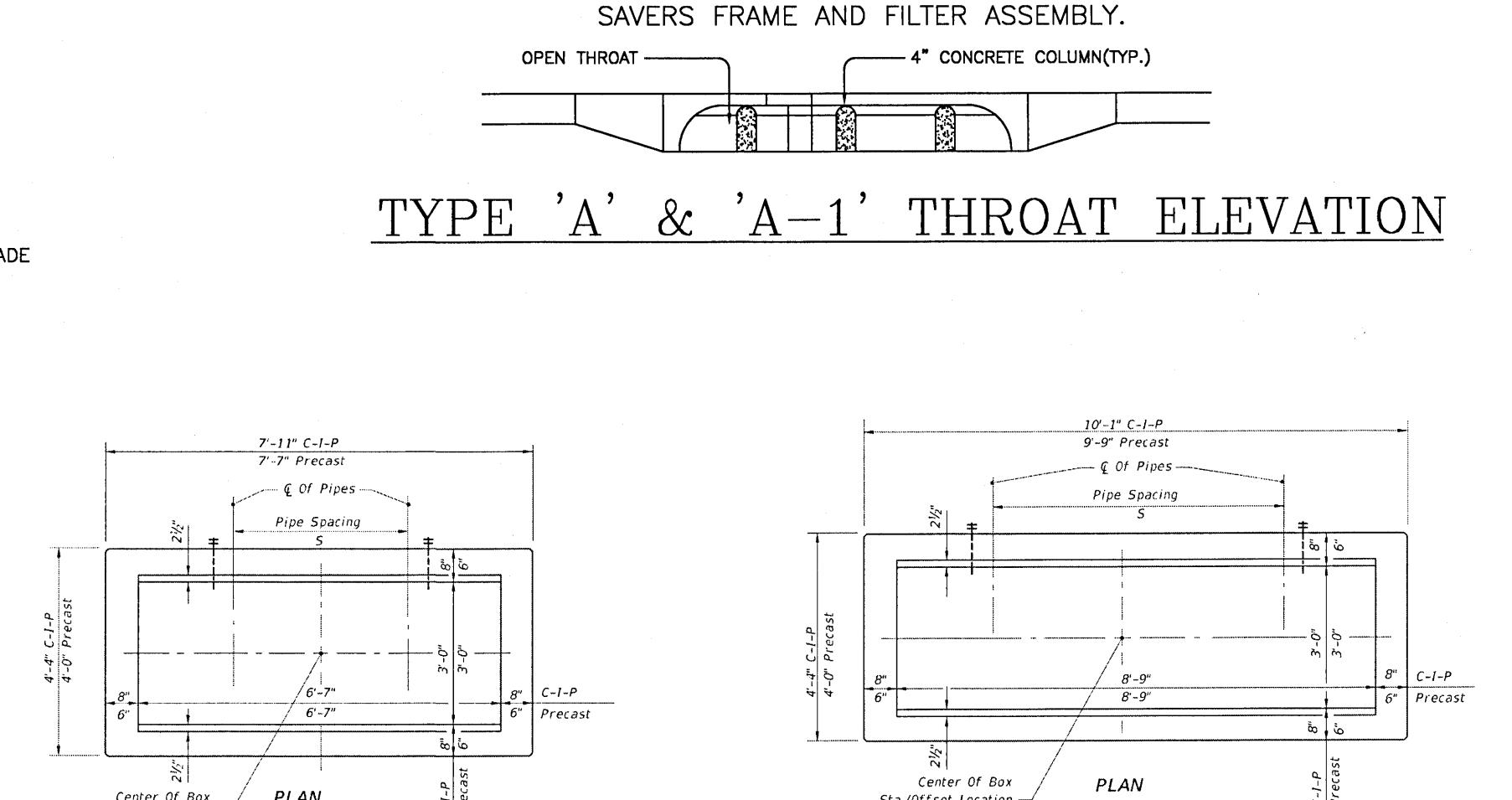
**SECTION "B-B"**



**TYPE 'A-1' DROP INLET DETAIL**



**SECTION**



**TYPE 'A' & 'A-1' THROAT ELEVATION**

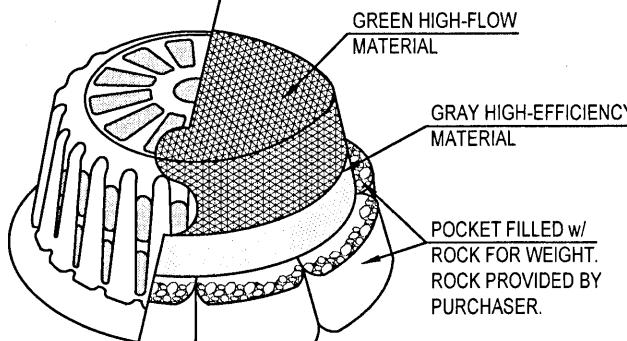
**FDOT TYPE-D INLET DETAIL**  
NTS

Recommended Maximum Pipe Size:  
3'-1" Wall - 24" Pipe  
4'-1" Wall - 36" Pipe

NOTE: ALL INLETS ARE TO UTILIZE SILT SAVERS FRAME AND FILTER ASSEMBLY.

FILTER INSTALLATION  
FILTER SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER  
FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE  
SEWN DIRECTLY INTO FILTER. EVERY FILTER COMES IN ONE PIECE  
FOR EASY INSTALLATION.

Maintenance  
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL  
PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL  
REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT  
FRAME AND FILTER DAILY FOR CUTS, ABRASIONS, AND PROPER  
INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.



**SILT SAVER DETAIL**

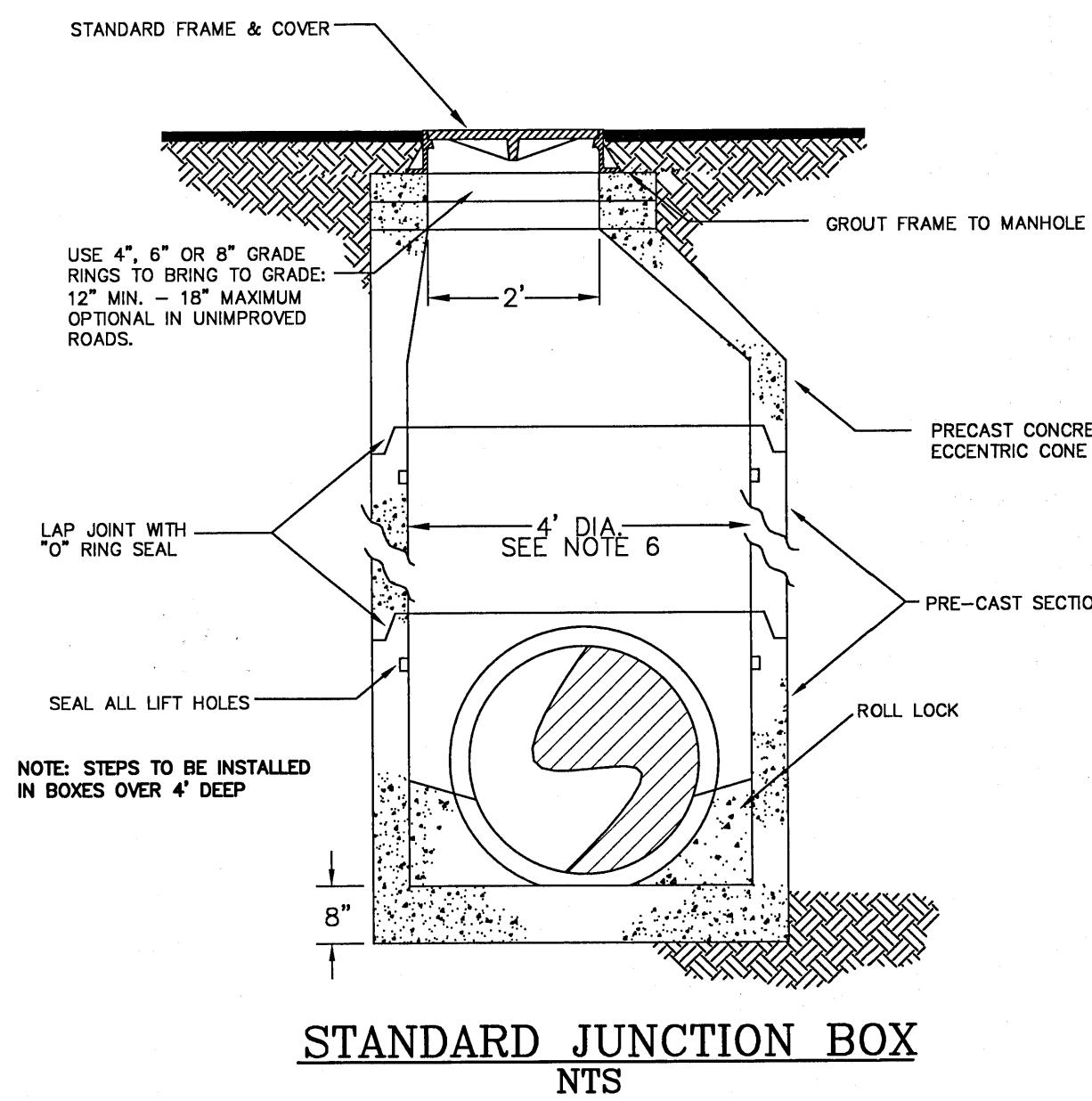
SHOWN WITH DOT FILTER

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)				
WALL DEPTH	SCHEDULE	AREA (in²/ft)	MAX. SPACING BARS	WWR
0'-5"	H.5	0.24	5½"	5"
5'-T	C.5	0.37	4½"	6"
7'-15"	D.45	0.53	4½"	6"

**FDOT TYPE-H INLET DETAIL**  
(2&3-GRADE INLET)

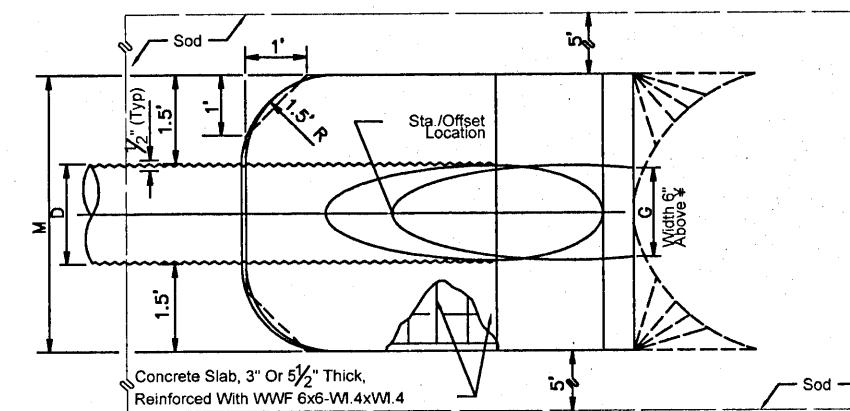
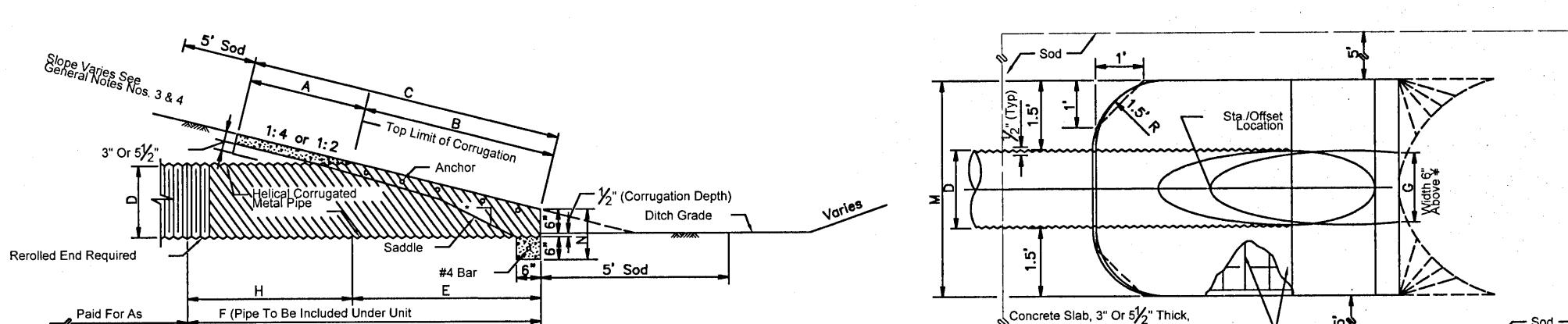
WALL DEPTH	SCHEDULE	AREA (in²/ft)	MAX. SPACING BARS	WWR
0'-5"	C.5	0.37	3½"	3"
5'-10"	D.45	0.53	4½"	4"
7'-15"	E.45	0.67	5½"	5"

**FDOT TYPE-H INLET DETAIL**  
(4-GRADE INLET)



**STANDARD JUNCTION BOX NTS**

JUNCTION BOX NOTES:  
1. MANHOLE SHALL CONFORM TO A.S.T.M. C 478 SPECIFICATIONS.  
2. DIAMETER OF OPENING FOR PIPE SHALL BE 1" LARGER DIAMETER THAN BELL OF THE PIPE BEING USED.  
3. JOINTING RING AND SHALL BE RAM NECK, TYPE 1, ROPE FORM PLASTIC GASKET OR EQUAL.  
4. ALL PATCHING TO BE DONE WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED.  
5. CONCRETE TO BE 2500 P.S.I., REINFORCING STEEL TO BE A.S.T.M. A 615 GRADE 60.  
6. FRAME AND COVER SHALL BE VULCAN 1337-2 (ASTM SPEC. A-48, CLASS 30) OR IRON OR APPROVED EQUAL REFER TO SPECIFICATIONS.  
7. CONTRACTOR IS CAUTIONED TO DETERMINE IF A 4" DIAMETER MANHOLE IS LARGE ENOUGH TO CONTAIN SOME OF THE LARGER PIPES OR CONFIGURATIONS. IT MAY BE NECESSARY TO PROVIDE A LARGER DIAMETER JUNCTION BOX. RECTANGULAR JUNCTION BOXES ARE ACCEPTABLE PROVIDED THEY MEET ESCambia COUNTY REQUIREMENTS AND FOOT SPEC.  
8. NO CONCRETE REPAIRS TO BE MADE ON MANHOLES.  
9. PIPE CONNECTIONS TO STRUCTURES TO INCLUDE CONCRETE COLLARS.



D	X	A	B	C	E	F	G	H	MES DIMENSIONS AND QUANTITIES												
									M	N	1/2" CONCRETE SLAB (CY)										
									Single Pipe	Double Pipe	Triple Pipe	Quad Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad Pipe					
15'	2"-7"	2.5"	1.68	4.18	1.5'	5.0"	1.23"	3.5"	4.33	6.92	9.50	12.08	1.04	0.35	0.54	0.74	0.94	21	24	27	29
18'	2"-10"	2.5"	2.24	4.74	2.0"	6.0"	1.41"	4"	4.58	7.42	10.25	13.08	1.04	0.38	0.62	0.87	1.12	22	25	28	31
24'	3"-5"	2.5"	3.35	5.85	3.0"	7.0"	2.13"	4"	5.58	8.03	11.07	14.01	1.04	0.42	0.78	1.03	1.33	23	27	30	33
30'	3"-5"	2.5"	4.05	6.55	3.0"	8.0"	2.43"	4"	5.59	8.83	11.65	14.33	1.04	0.57	0.98	1.37	1.77	23	30	33	39
36'	5"-1"	2.5"	5.59	8.05	5.0"	9.0"	2.24"	4"	6.08	11.17	16.25	21.33	1.04	0.67	1.19	1.72	2.26	27	33	38	44
42'	5"-0"	2.5"	6.71	9.05	6.0"	10.0"	2.45"	4"	6.58	12.58	16.58	24.58	1.04	0.78	1.48	2.14	2.87	29	36	42	53
48'	6"-0"	2.5"	7.56	10.07	7.0"	11.0"	2.65"	4"	7.08	13.35	17.35	25.35	1.04	0.88	1.64	2.31	3.13	33	40	46	53
54'	7"-8"	2.5"	8.64	11.44	8.0"	12.0"	2.83"	4"	7.58	15.25	22.92	30.58	1.04	1.02	2.06	3.10	4.14	33	41	50	58
60'	7"-7"	2.5"	9.75	12.37	9.0"	13.0"	3.00"	4"	8.08	16.58	25.08	33.58	1.04	1.14	2.38	3.63	4.89	34	44	53	63
15'	2"-7"	2.5"	3.09	5.58	3.0"	4.23"	4"	4.13	6.08	9.02	12.02	1.04	0.49	0.77	1.03	1.31	24	27	30	33	
18'	2"-10"	2.5"	4.05	7.05	4.0"	5.44"	4.43"	4"	4.55	7.42	10.25	13.08	1.04	0.57	0.98	1.37	1.77	27	30	33	39
24'	3"-5"	2.5"	6.18	8.68	6.0"	10.0"	1.73"	4"	5.08	8.50	11.82	14.80	1.04	0.65	1.09	1.38	1.77	27	30	33	39
30'	4"-3"	2.5"	8.25	10.75	8.0"	12.0"	2.00"	4"	5.58	9.83	14.08	18.33	1.04	0.88	1.34	1.60	2.14	24	30	34	40
36'	5"-1"	2.5"	10.37	12.37	10.0"	12.0"	2.24"	4"	6.08	11.17	16.25	21.33	1.04	0.97	1.44	2.14	2.81	32	38	44	49
42'	6"-0"	2.5"	12.37	14.87	12.0"	16.0"	2.45"	4"	6.58	12.58	18.58	24.58	1.04	1.13	2.08	3.06	4.02	35	42	48	55
48'	6"-9"	2.5"	14.43	16.63	14.0"	18.0"	2.65"	4"	7.08	13.83	20.58	27.33	1.04	1.29	2.49	3.69	4.88	38	46	53	60
54'	7"-8"	2.5"	16.49	18.89	16.0"	20.0"	2.83"	4"	7.58	15.25	23.09	30.58	1.04	1.41	2.61	3.91	5.09	44	52	59	67
60'	8"-0"	2.5"	18.55	21.05	18.0"	22.0"	3.00"	4"	8.08	16.95	25.09	33.58	1.04	1.66	3.49						

## PECAN VALLEY

### POTABLE WATER DETAILS

DATE	
REVISION	
NUMBER	
DRAWN BY:	B. PIMENT
DESIGNED BY:	D. FITZPATRICK
SIGNATURE & SEAL	
NO. 47818 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 07/19/21	
PLOT DATE	07/19/21
SHEET	C33 OF C42

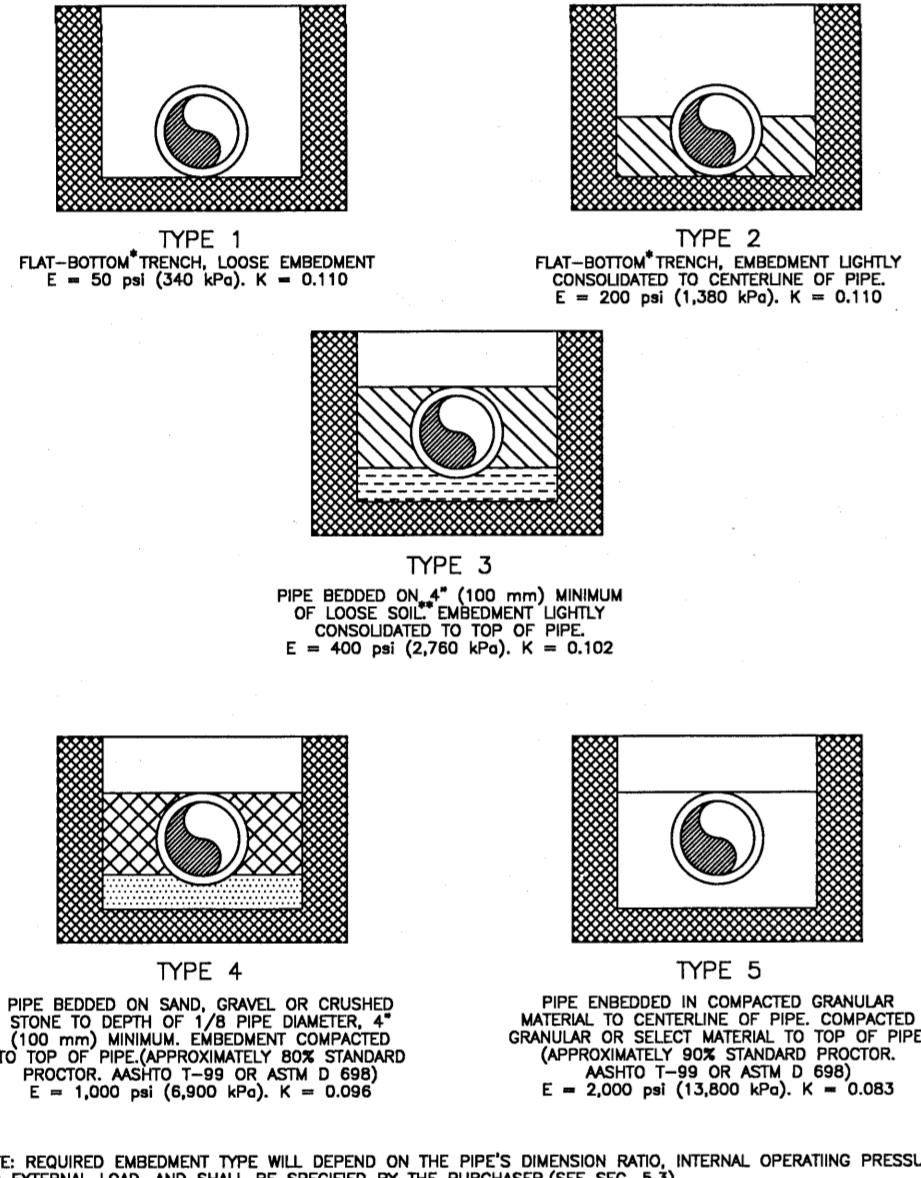
### CHLORINE REQUIRED FOR STERILIZATION

PIPE SIZE	SPECIFICATION	I.D. INCHES	GALLS/100'	CHLORINE REQUIRED PER 100' FOR 25ppm	CHLORINE REQUIRED PER 100' FOR 50ppm
2"	D2241 DR26	2.193	20	0.10 oz.	0.20 oz.
3"	D2241 DR26	3.230	43	0.22 oz.	0.44 oz.
4"	C-900 DR18	4.230	73	0.37 oz.	0.75 oz.
6"	C-900 DR18	4.390	79	0.40 oz.	0.81 oz.
8"	C-900 DR18	6.090	151	0.78 oz.	1.55 oz.
8"	C-900 DR25	6.300	162	0.83 oz.	1.66 oz.
10"	C-900 DR18	7.980	260	1.33 oz.	2.67 oz.
10"	C-900 DR25	8.280	280	1.44 oz.	2.87 oz.
12"	C-900 DR18	11.650	554	2.84 oz.	5.69 oz.
12"	C-900 DR25	12.080	595	3.06 oz.	6.12 oz.
16"	C-905 DR18	15.470	977	5.01 oz.	10.03 oz.
16"	C-905 DR25	16.010	1,046	5.37 oz.	10.74 oz.
20"	C-905 DR18	19.200	1,504	7.72 oz.	15.45 oz.
20"	C-905 DR25	19.870	1,611	8.27 oz.	16.55 oz.
24"	C-905 DR18	N/A	N/A	N/A	N/A
24"	C-905 DR25	23.742	2,300	11.81 oz.	23.62 oz.

NOTE :  
 - 16", 20" AND 24" PIPE SIZES ARE C.I.O.D.  
 - FOR HTH WITH 65% AVAILABLE CHLORINE  
 - 1 US GALLON WEIGHS 8.345 #  
 - APPROX. 1 oz./100 gal FOR 50 ppm  
 - APPROX. 0.5 oz./100 gal FOR 25 ppm

### CHLORINE REQUIRED FOR STERILIZATION

N.T.S.



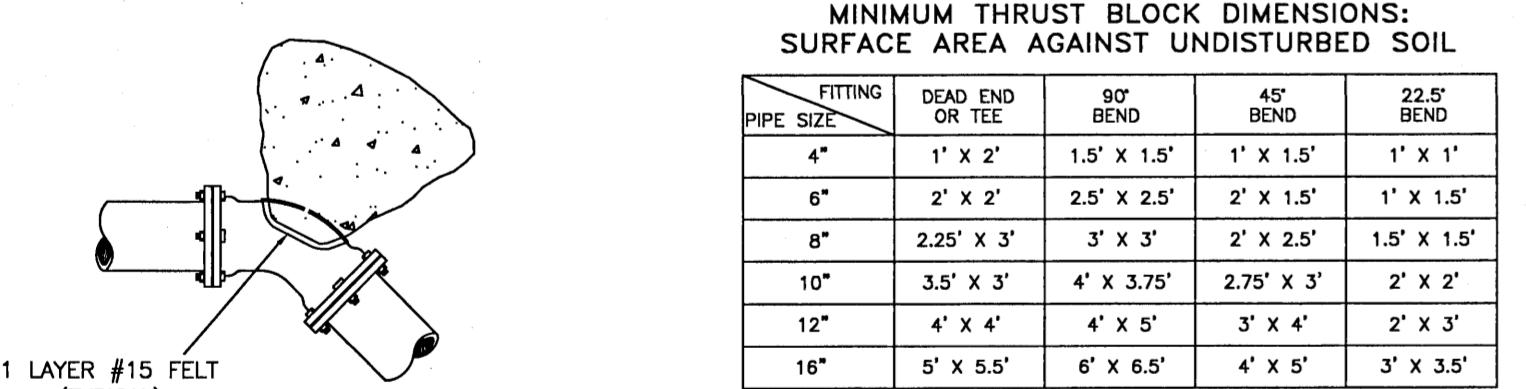
NOTE: REQUIRING EMBEIDMENT TYPE WILL DEPEND ON THE PIPE'S DIMENSION RATIO, INTERNAL OPERATING PRESSURE, AND EXTERNAL LOAD, AND SHALL BE SPECIFIED BY THE PURCHASER.(SEE SEC. 5.3)

\*FLAT-BOTTOM\* IS DEFINED AS UNDISTURBED EARTH.  
 PIPE BEDDED ON SAND, GRAVEL OR CRUSHED STONE, TRENCH DUG TO A DEPTH OF 4'-0" AND FILLED WITH SOIL OR SELECT MATERIAL. E = 50 psi (340 kPa). K = 0.110.  
 PIPE BEDDED ON SAND, GRAVEL OR CRUSHED STONE, TRENCH DUG TO A DEPTH OF 4'-0" AND FILLED WITH SOIL OR SELECT MATERIAL. E = 200 psi (1,380 kPa). K = 0.110.  
 PIPE BEDDED ON SAND, GRAVEL OR CRUSHED STONE, TRENCH DUG TO A DEPTH OF 4'-0" AND FILLED WITH SOIL OR SELECT MATERIAL. E = 400 psi (2,760 kPa). K = 0.102.  
 PIPE BEDDED ON SAND, GRAVEL OR CRUSHED STONE, TRENCH DUG TO A DEPTH OF 4'-0" AND FILLED WITH SOIL OR SELECT MATERIAL. E = 1,000 psi (6,900 kPa). K = 0.098.

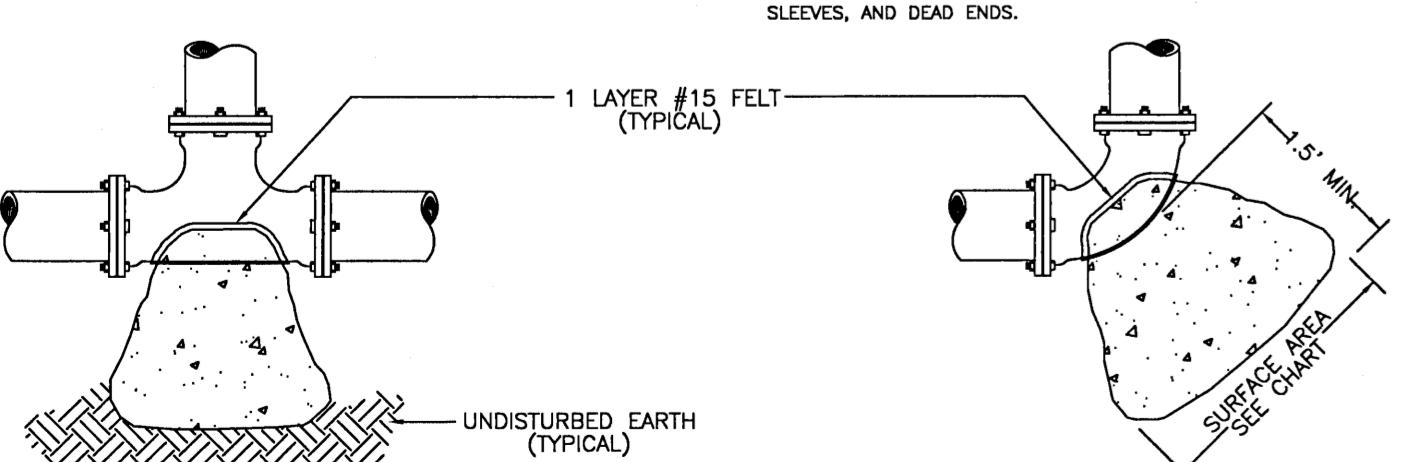
From AWWA C.605  
UNDERGROUND INSTALLATION OF PVC PIPE

### PIPE ENVELOPE REQUIREMENTS

N.T.S.



NOTES:  
 1. ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.  
 2. ALL THRUST BLOCKS TO BE BACKED BY UNDISTURBED SOIL.  
 3. THESE DIMENSIONS BASED ON SM SOIL CLASSIFICATION.  
 4. CONCRETE MIN. 2,500 PSI.  
 5. JOINT RESTRAINTS ARE TO BE USED ON ALL FITTINGS, THRUST BLOCKS REQUIRED ON 90° BENDS, 45° BENDS, TEES, TAPPING SLEEVES, AND DEAD ENDS.



### TYPICAL THRUST BLOCK INSTALLATIONS

N.T.S.

NOTES:  
 1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO THE EXISTING SERVICE LINE.  
 2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. SSRU INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.  
 3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBE, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOP WITH BRASS CAPS.  
 4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE SSRU INSPECTOR. SSRU SHALL COLLECT TEST SAMPLES.

5. IF 20" STUBOUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURIZE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.

SERVICE SADDLE WITH CORP. STOP (TYP. 2 PLACES)

SEE NOTE 1

REDUCED PRESSURE ZONE

BFP

PUMP

EXISTING PIPE

SEE NOTE 5

NEW PIPE

SEE NOTE 1

REDUCED PRESSURE ZONE

BFP

PUMP

EXISTING PIPE

SEE NOTE 5

NEW TAPPING SLEEVE AND VALVE

SEE NOTE 1

REDUCED PRESSURE ZONE

BFP

PUMP

EXISTING PIPE

SEE NOTE 5

NEW PIPE

SEE NOTE 1

REDUCED PRESSURE ZONE

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SEE NOTE 5

NEW PIPE

SEE NOTE 1

REDUCED PRESSURE ZONE

BFP

PUMP

EXISTING PIPE

SEE NOTE 5

NEW PIPE

SEE NOTE 1

REDUCED PRESSURE ZONE

BFP

PUMP

EXISTING PIPE

SEE NOTE 5

NEW PIPE

SEE NOTE 1

REDUCED PRESSURE ZONE

BFP

PUMP

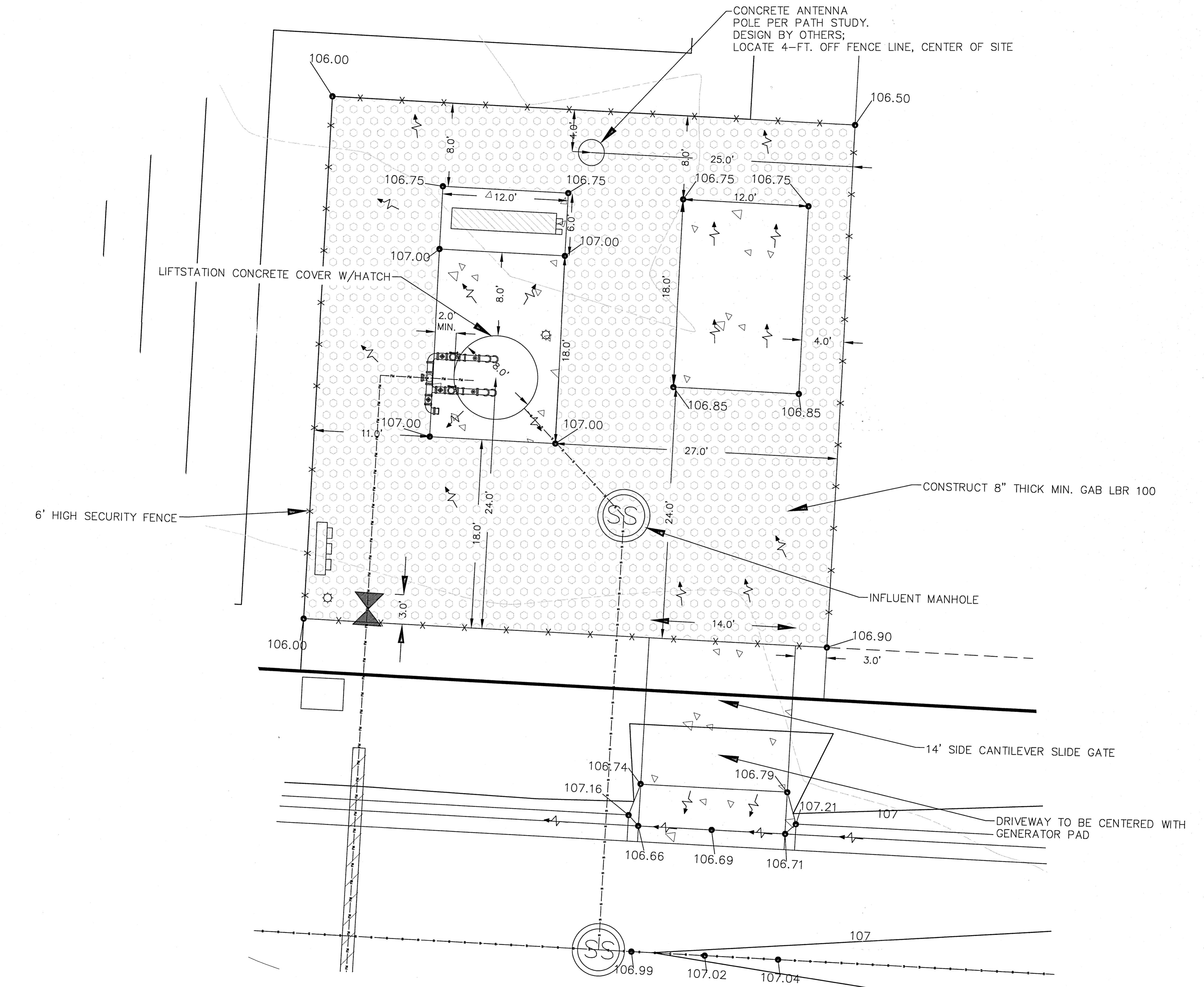
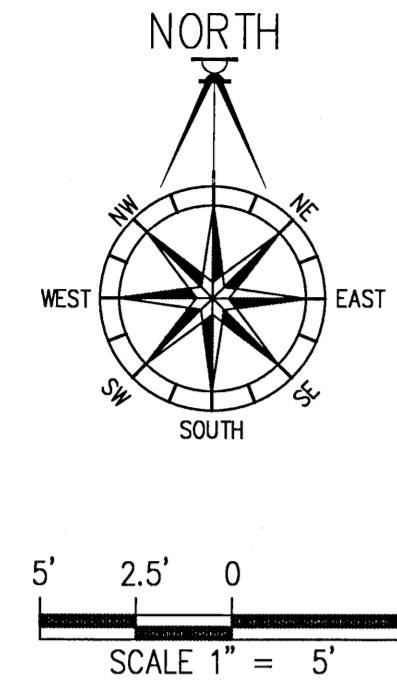
EXISTING PIPE

SEE NOTE 5

NEW PIPE

SEE NOTE 1

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;  
ALL POTABLE WATER WORK SHALL BE CONSTRUCTURED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



# PECAN VALLEY

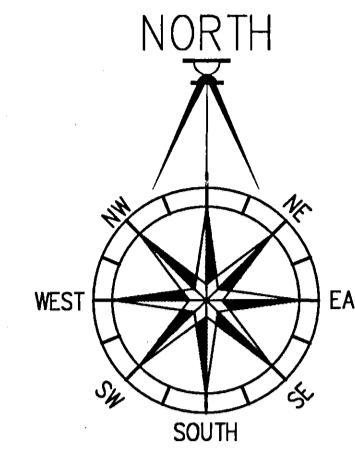
TEST ATION DETAIL SITE

**DAVID W. FITZPATRICK**

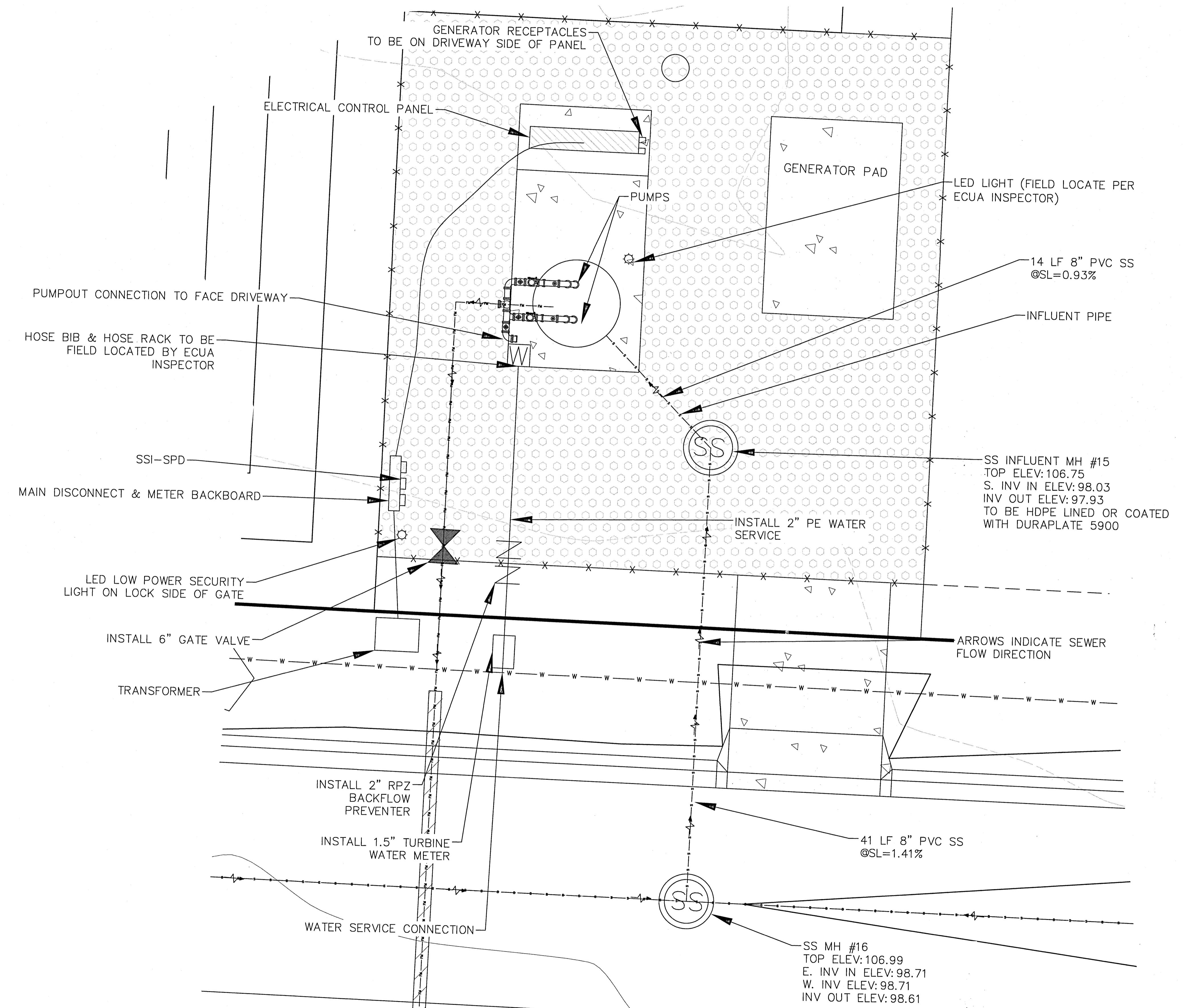
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PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00000842  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

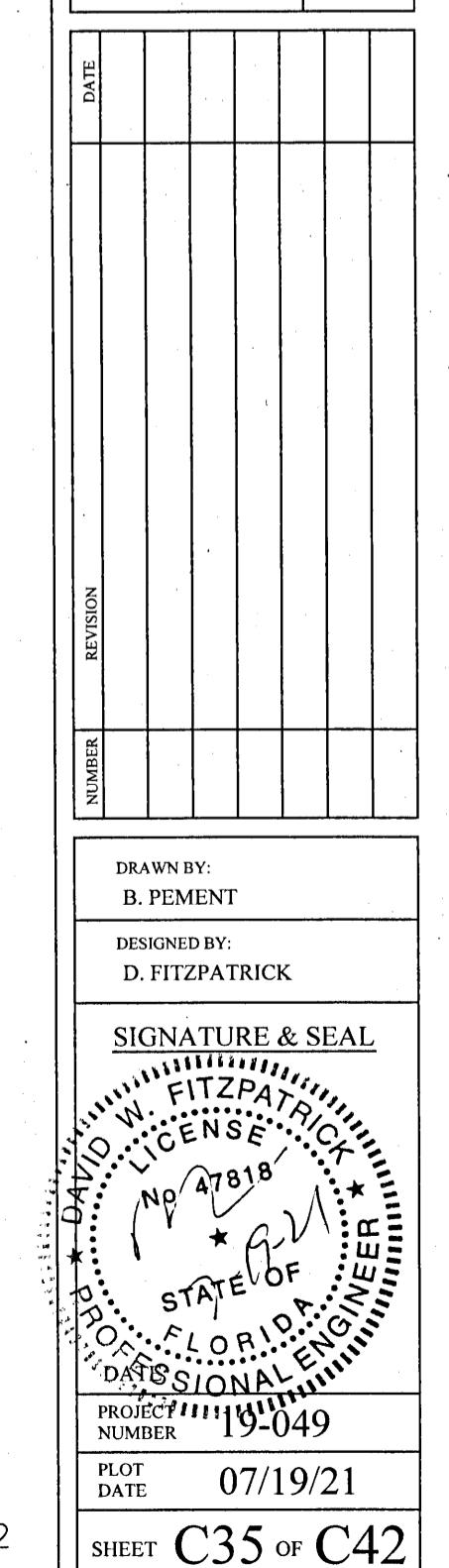
DRAWN BY: B. PEMENT	
DESIGNED BY: D. FITZPATRICK	
<u>SIGNATURE &amp; SEAL</u>	
DATE:	
OBJECT NUMBER	19-049
DET ATE	07/19/21
SHEET C34 OF C42	



5' 2.5' 0 5'  
SCALE 1" = 5'



PROJECT SUMMARY	
Site Address:	160 CEDAR TREE LN
Design Flow (GPM)	220
Design Head (Feet)	160
Approx. Motor Size (HP)	30
Pump Type	Vortex, Non-Clog
Starter Type	RVSS
Electrical Service Required	480V
Control Panel Layout	Linear
Wet Well Diameter (Feet)	8'
Wet Well Depth (Feet)	17.5'



## PECAN VALLEY

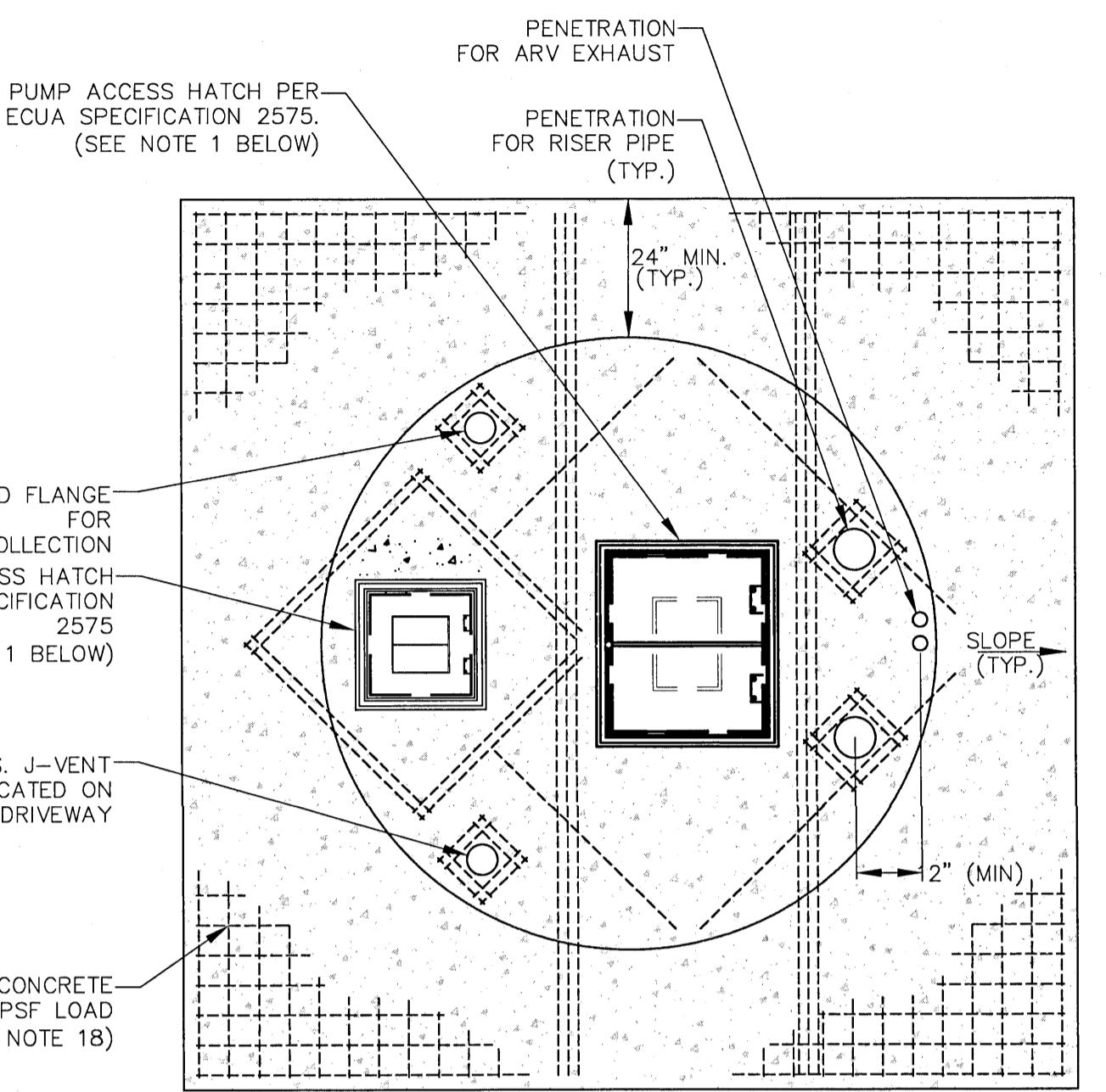
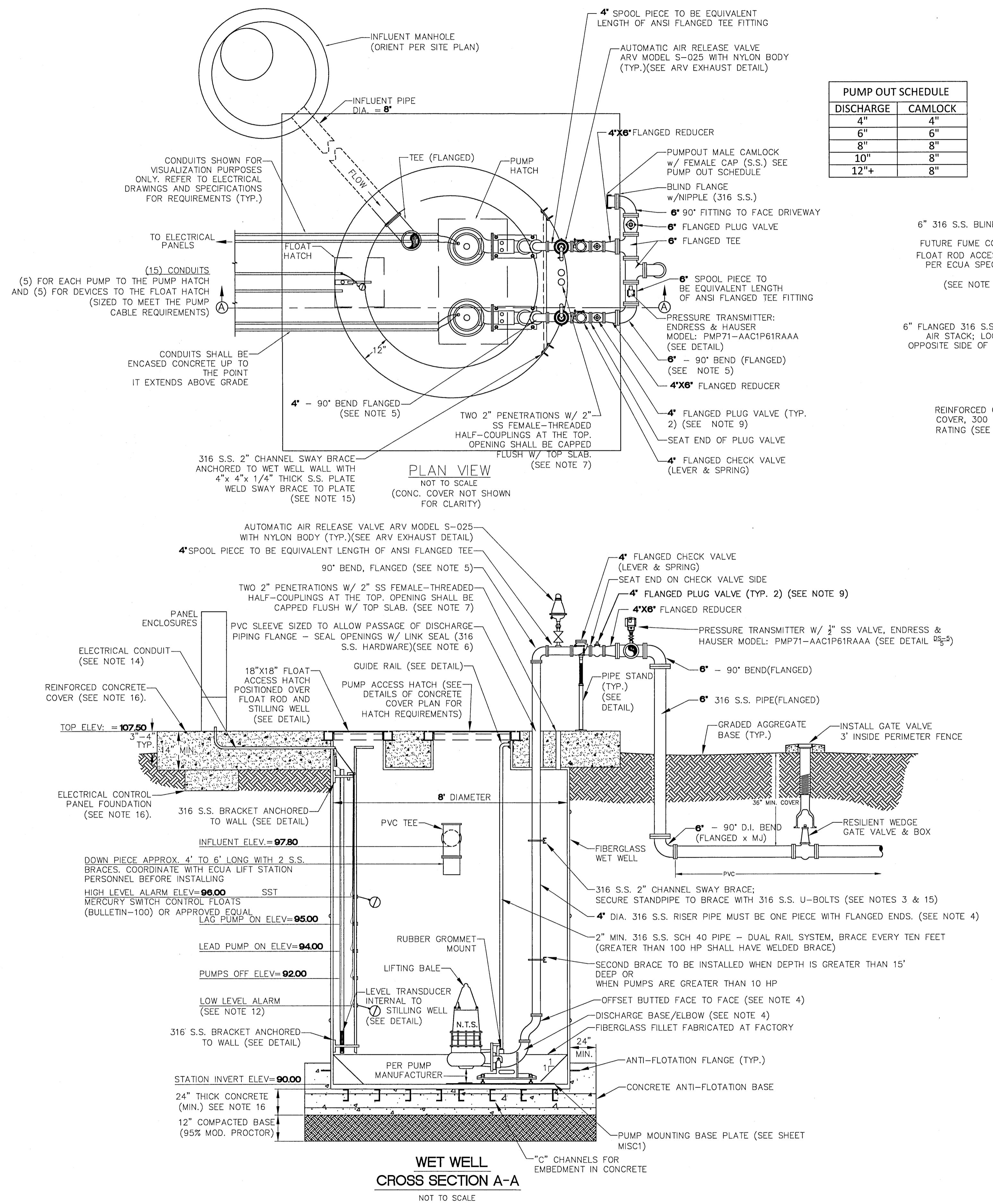
### LIFTSTATION DETAILS-UTILITIES

DAVID W. FITZPATRICK

PROFESSIONAL ENGINEER, P.A.  
BOARD OF PROFESSIONAL REGULATION #00008423  
10250 NORTH PALFOX STREET  
PENSACOLA, FL 32534  
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# PECAN VALLEY

## LIFTSTATION DETAILS

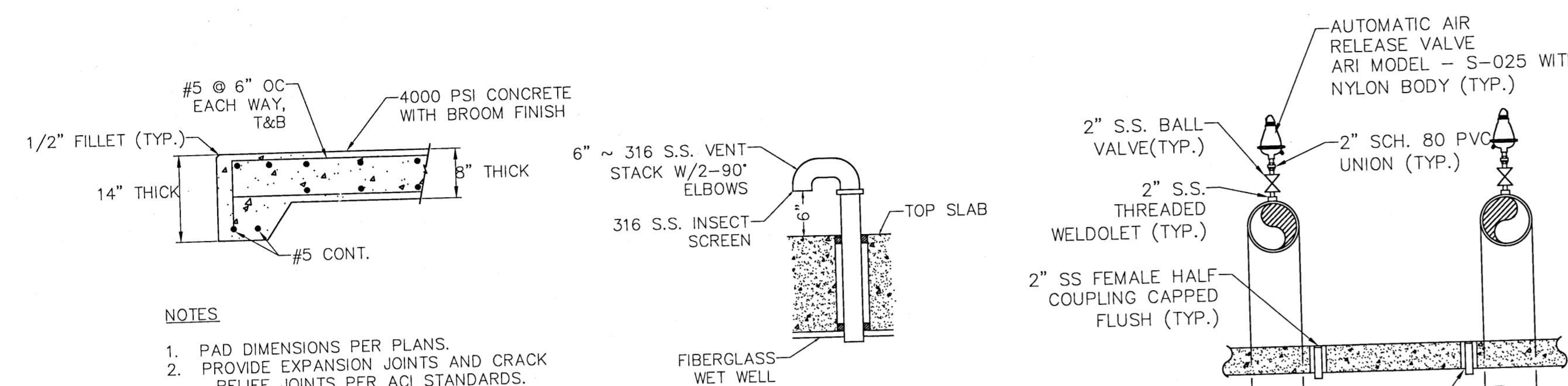


- NOTES:**
1. FAILURE TO PROVIDE HATCHES AS SPECIFIED IN SECTION 2575 WILL RESULT IN ECUA'S REJECTION OF ACCESS HATCH AND/OR WET WELL.
  2. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH A BITUMATIC PAINT.

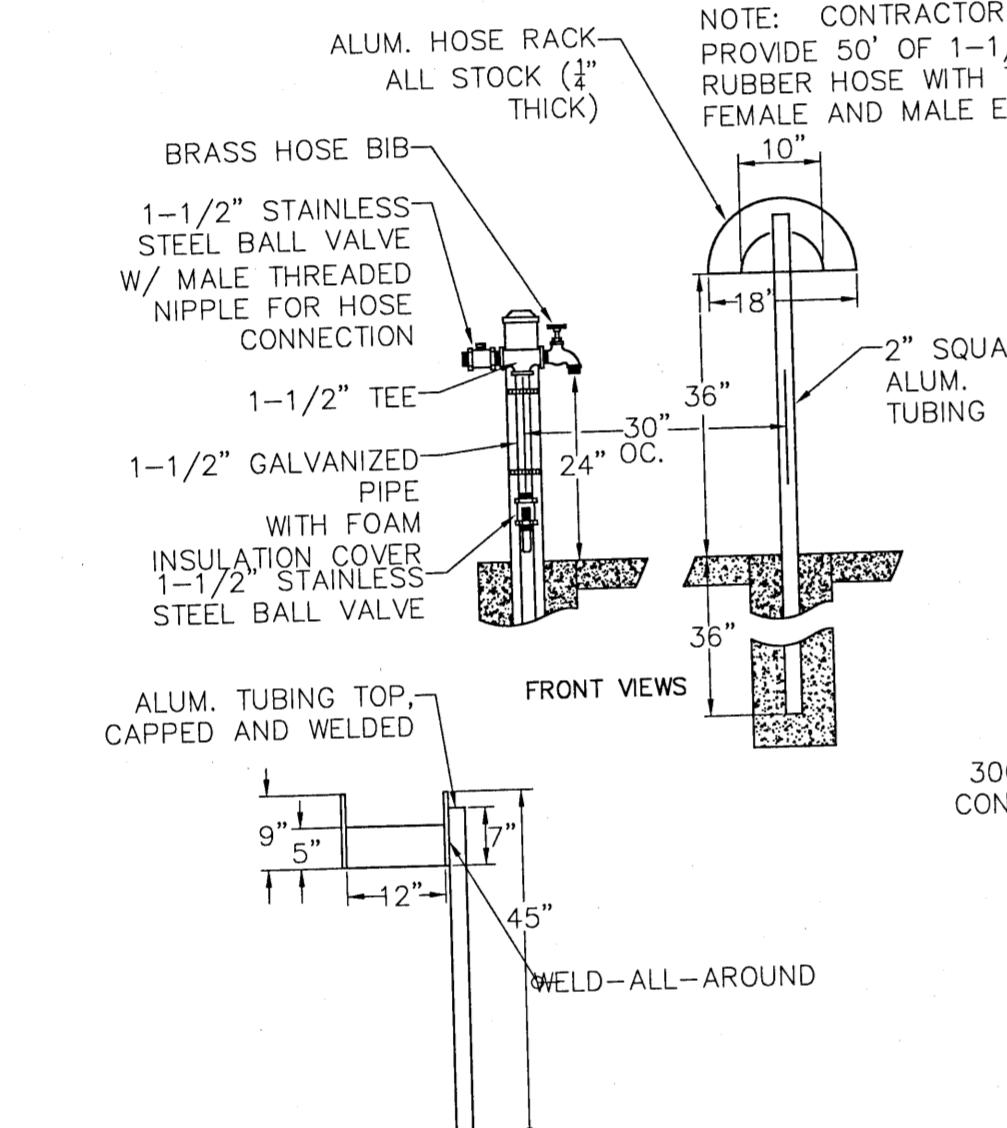
DATE	
REVISION	
NUMBER	
DRAWN BY: B. PEMENT	
DESIGNED BY: D. FITZPATRICK	
SIGNATURE & SEAL	
PROJECT NUMBER	19-049
PLOT DATE	07/19/21
HEET	C36 of C42

# PECAN VALLEY

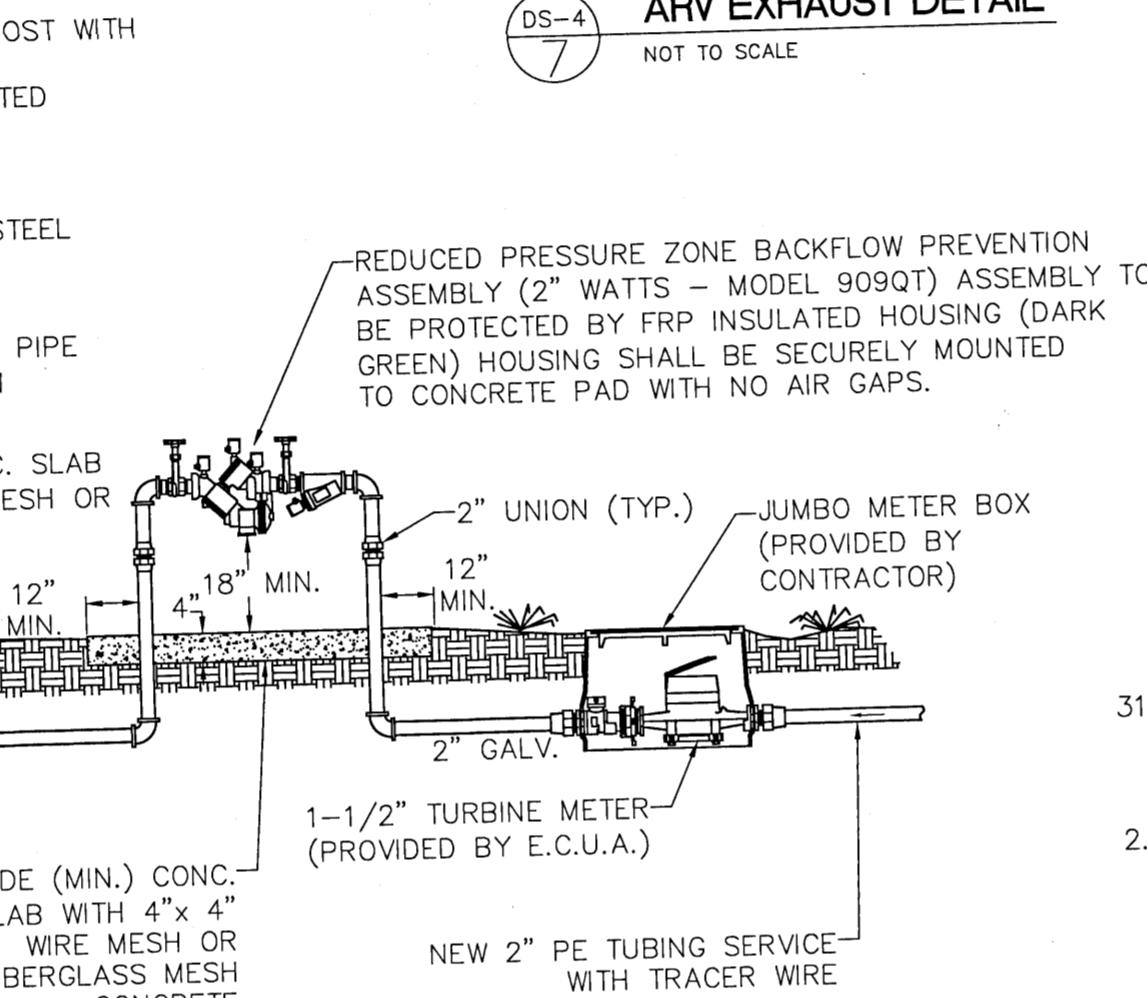
## LIFTSTATION DETAILS



DS-4  
**GENERATOR PAD DETAIL**  
NOT TO SCALE

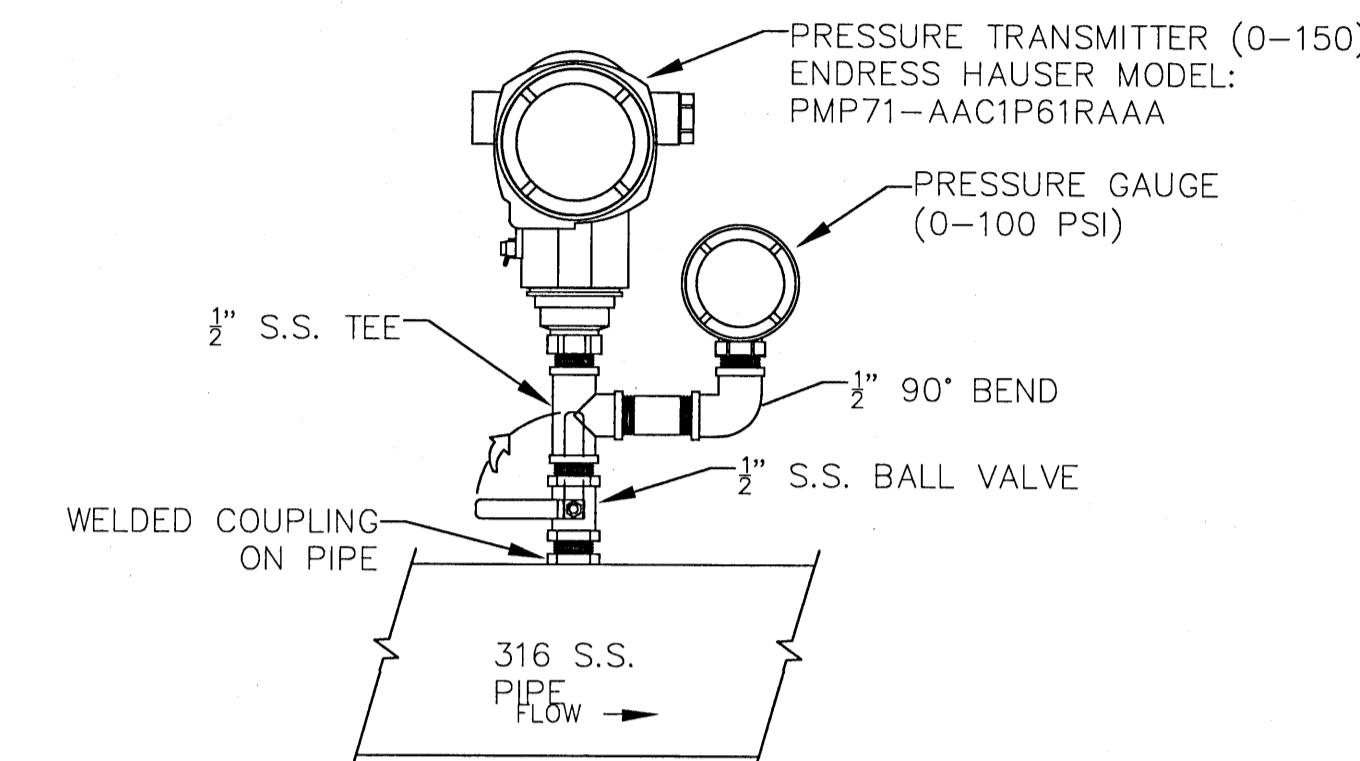


DS-4  
**J-VENT DETAIL**  
NOT TO SCALE

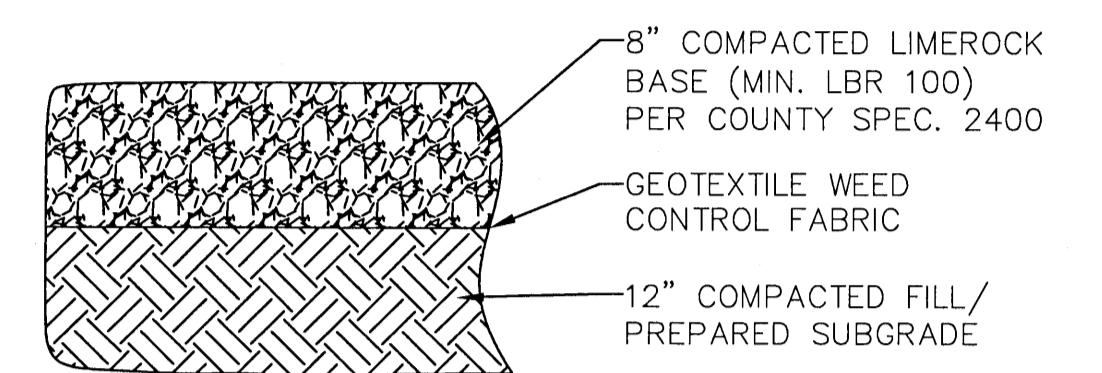


# PECAN VALLEY

## LIFTSTATION DETAILS



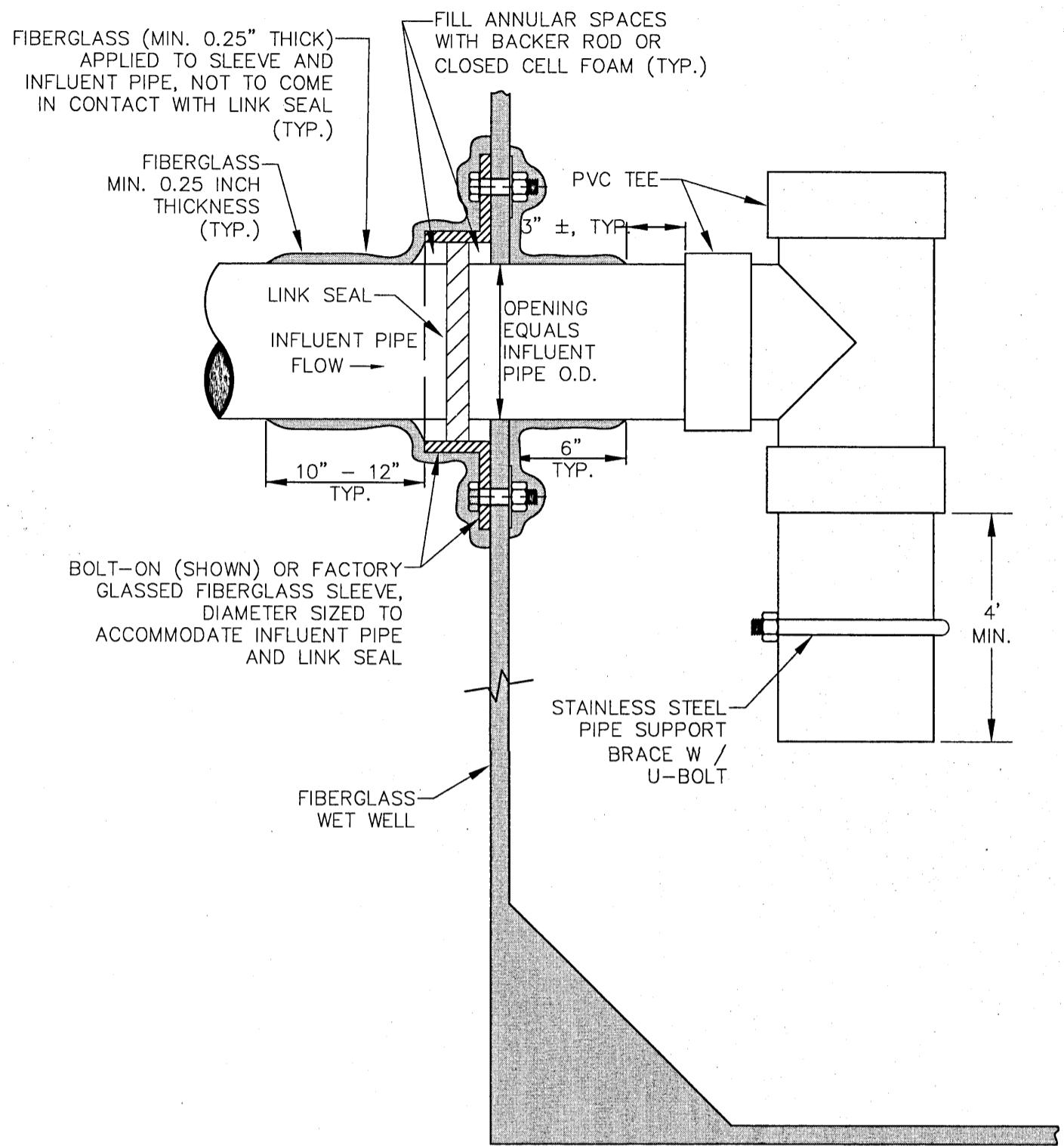
**PRESSURE TRANSMITTER DETAIL**  
NOT TO SCALE



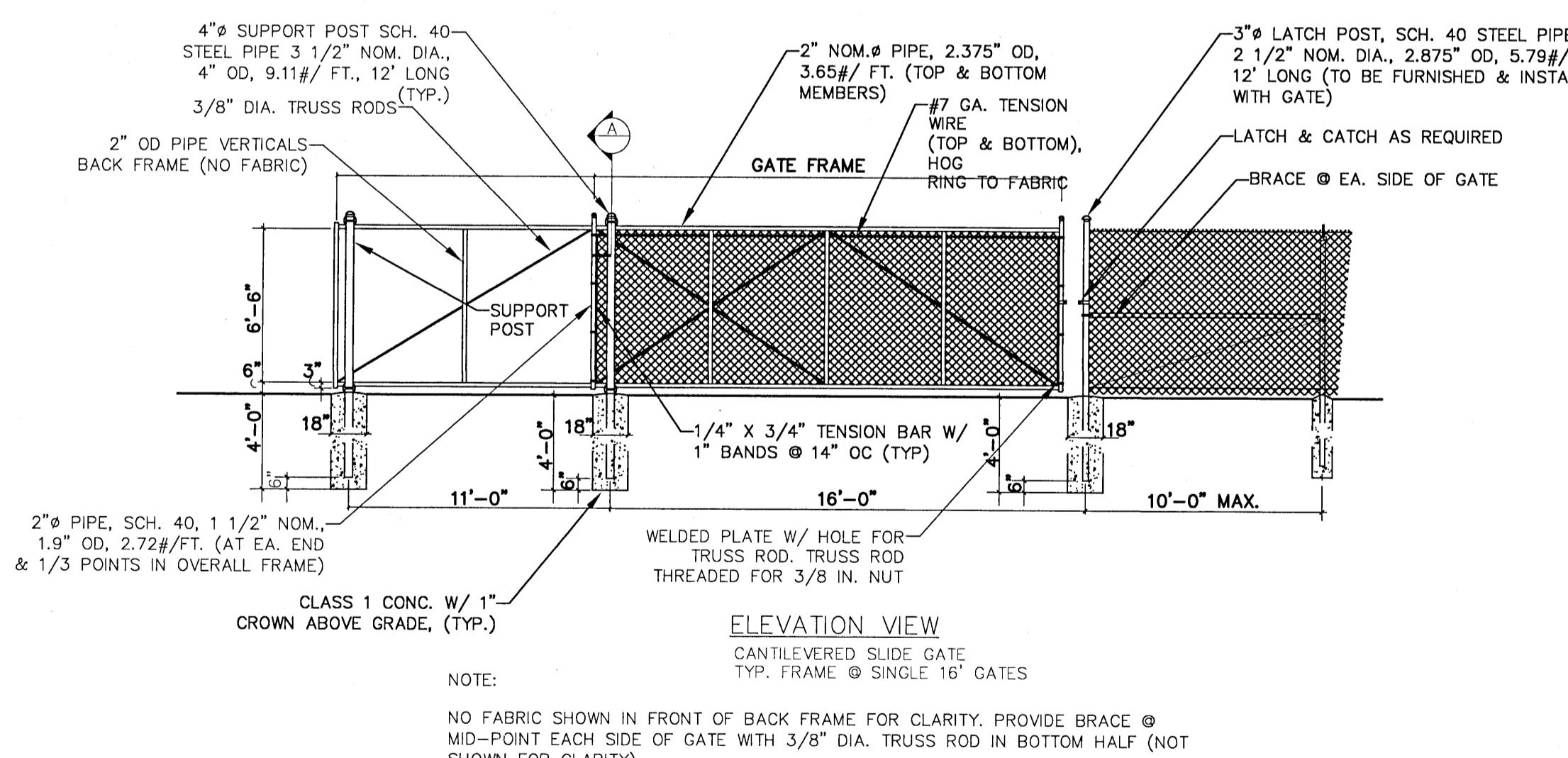
NOTES:

1. ALL DEPTHS ARE COMPACTED DEPTHS.
2. PREPARE SUBGRADE BY CLEARING AND GRUBBING, STRIPPING TOPSOIL AND PLACING GEOTEXTILE FABRIC.
3. FILL FOR LIFT STATION SITE SHALL BE SAND MECHANICALLY COMPACTED TO 95% MODIFIED PROCTOR DENSITY IN MAXIMUM 12-INCH LIFTS LOOSE MEASUREMENT TO ACHIEVE CORRECT GRADE.

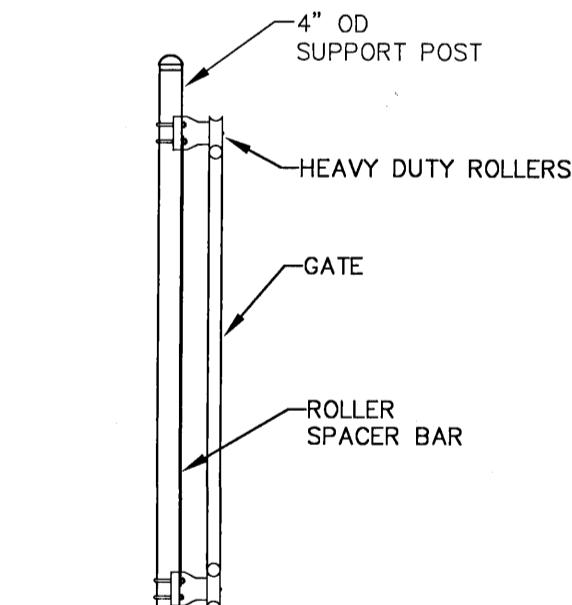
**GRADED AGGREGATE BASE DETAIL**  
NOT TO SCALE



**INFLUENT PIPE CONNECTION DETAIL**  
NOT TO SCALE



NOTE:  
NO FABRIC SHOWN IN FRONT OF BACK FRAME FOR CLARITY. PROVIDE BRACE @ MID-POINT EACH SIDE OF GATE WITH 3/8" DIA. TRUSS ROD IN BOTTOM HALF (NOT SHOWN FOR CLARITY)



FENCE POST SCHEDULE	
TYPE	SIZE
LINE POST	2-1/2"
BRACE POST*	3"
CORNER POST	3"
GATE POST	4"

\*\* EVERY 100'

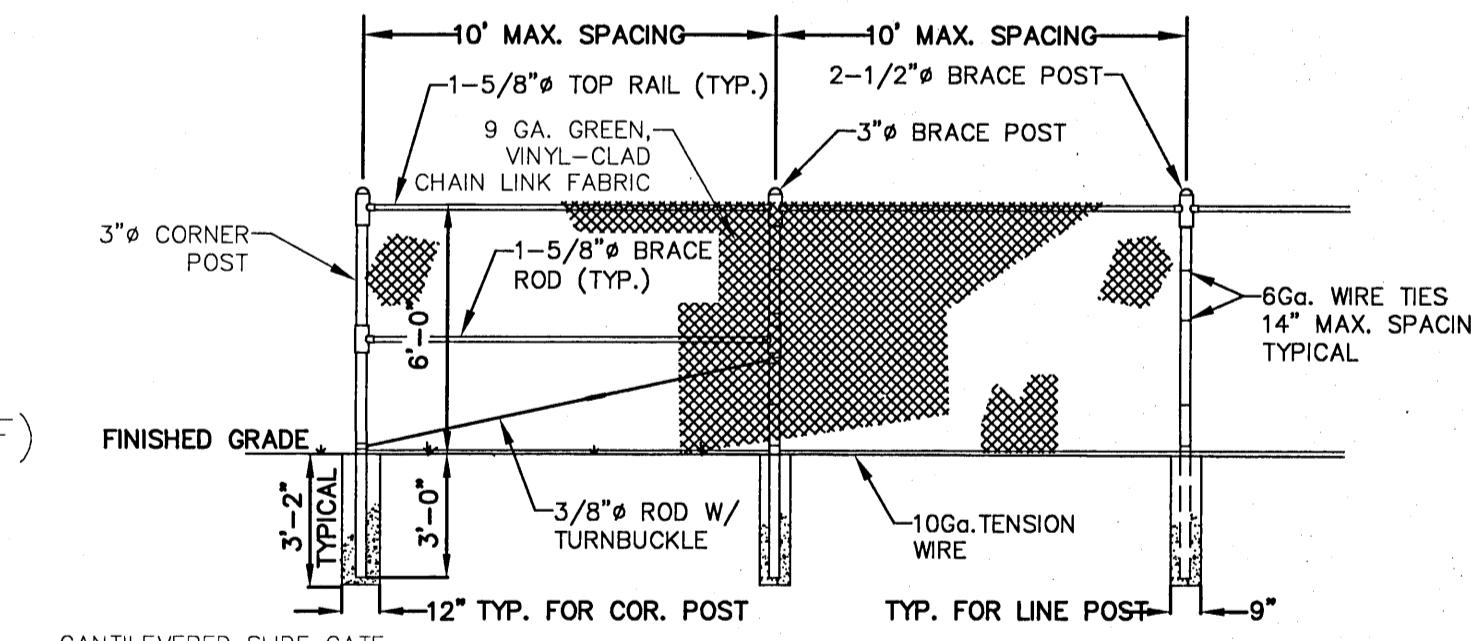
**SIDEVIEW OF GATE POST**  
NTS

**GATE FRAME DIAGRAM (PER GATE LEAF)**  
16'-0" GATE

SEE ELEVATION THIS SHEET  
FOR ADDITIONAL NOTES.  
SEE PLANS FOR LOCATION.

GATE OPENING	GATE FRAME	BACK FRAME
16'-0"	16'-3"	11'-0"

**CANTILEVERED SLIDE GATE DIMENSIONS  
PER GATE LEAF**



**6' CHAINLINK FENCE DETAIL**  
NTS

NOTE:  
ALL FENCING ELEMENTS TO BE MANUFACTURER'S  
FACTORY-APPLIED DARK GREEN COLOR.

**CANTILEVERED GATE + FENCING DETAIL.**  
NOT TO SCALE

NUMBER	REVISION
DATE	
DRAWN BY: B. PEMENT	
DESIGNED BY: D. FITZPATRICK	

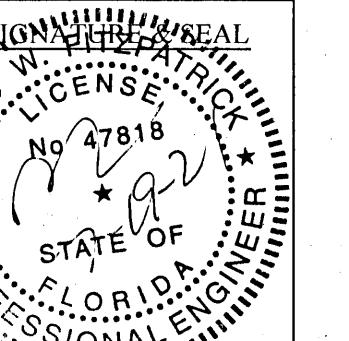
SIGNATURE & SEAL	

# PECAN VALLEY

## LIFTSTATION DETAILS

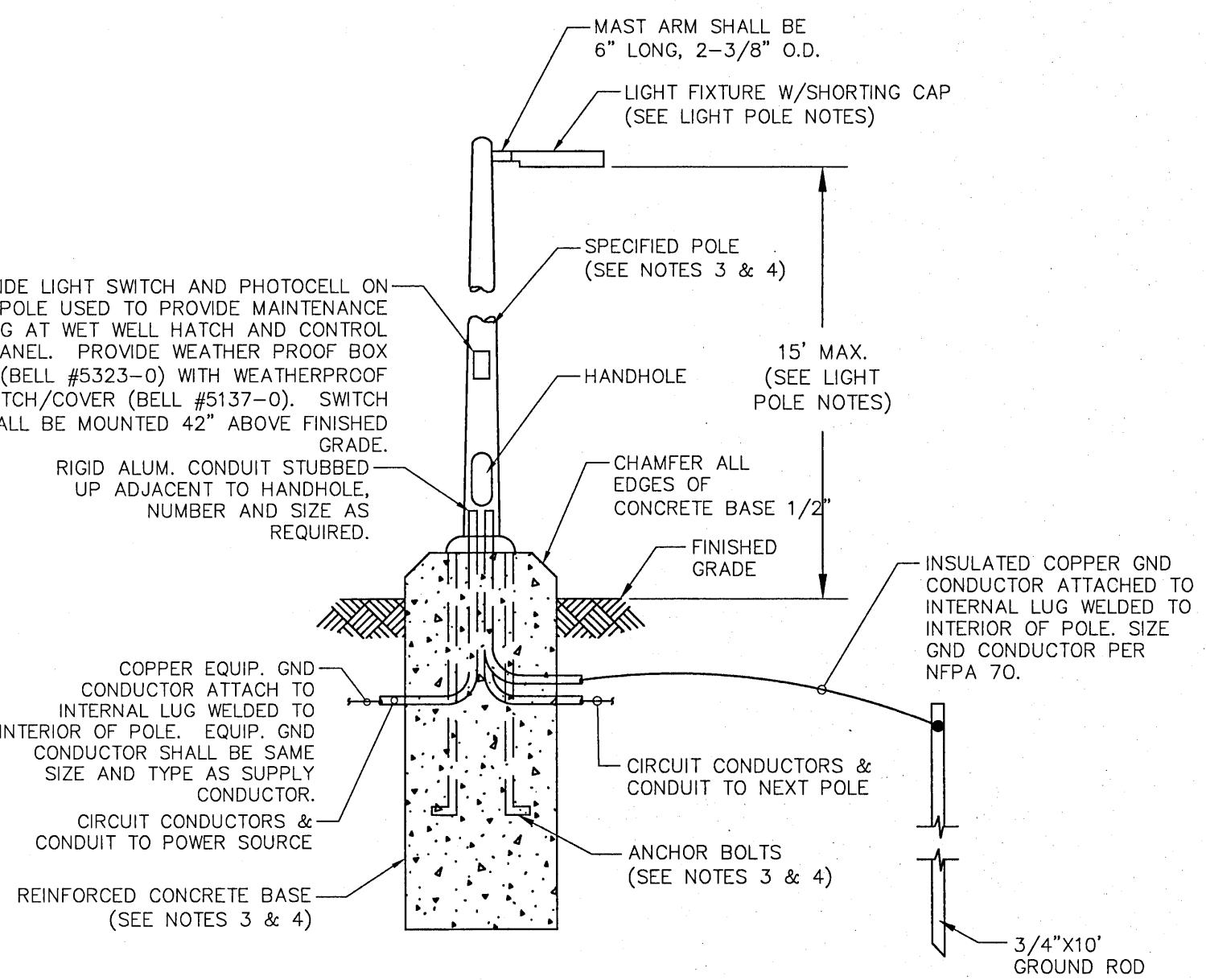
NUMBER	REVISION	DATE

DRAWN BY:  
B. PEMENT  
DESIGNED BY:  
D. FITZPATRICK



PROJECT NUMBER 19-049  
PLOT DATE 07/19/21  
SHEET C39 OF C42

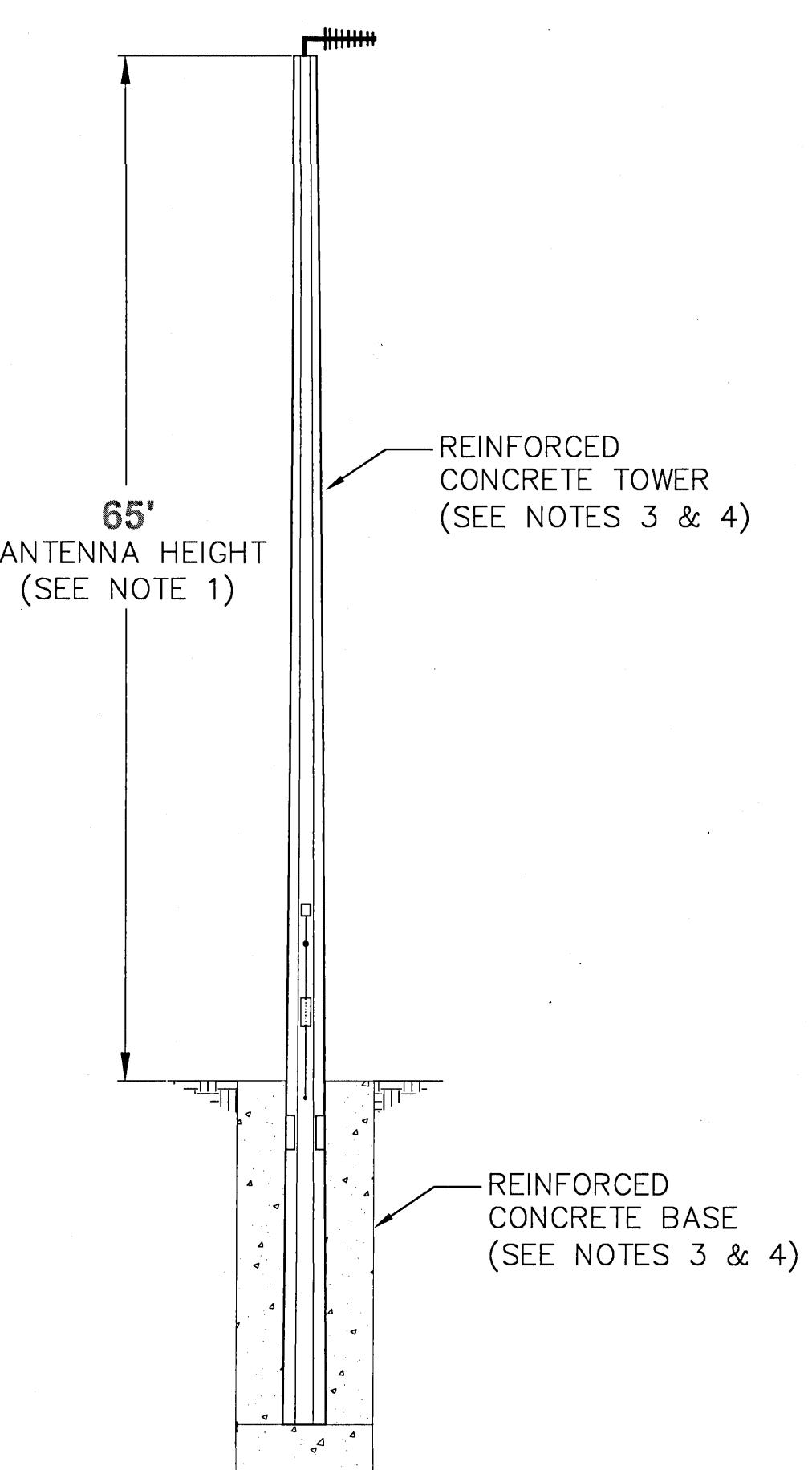
ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL.  
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



DS-6 SECURITY LIGHT AND WORK LIGHT DETAIL  
3 NOT TO SCALE

### LIGHT POLE NOTES:

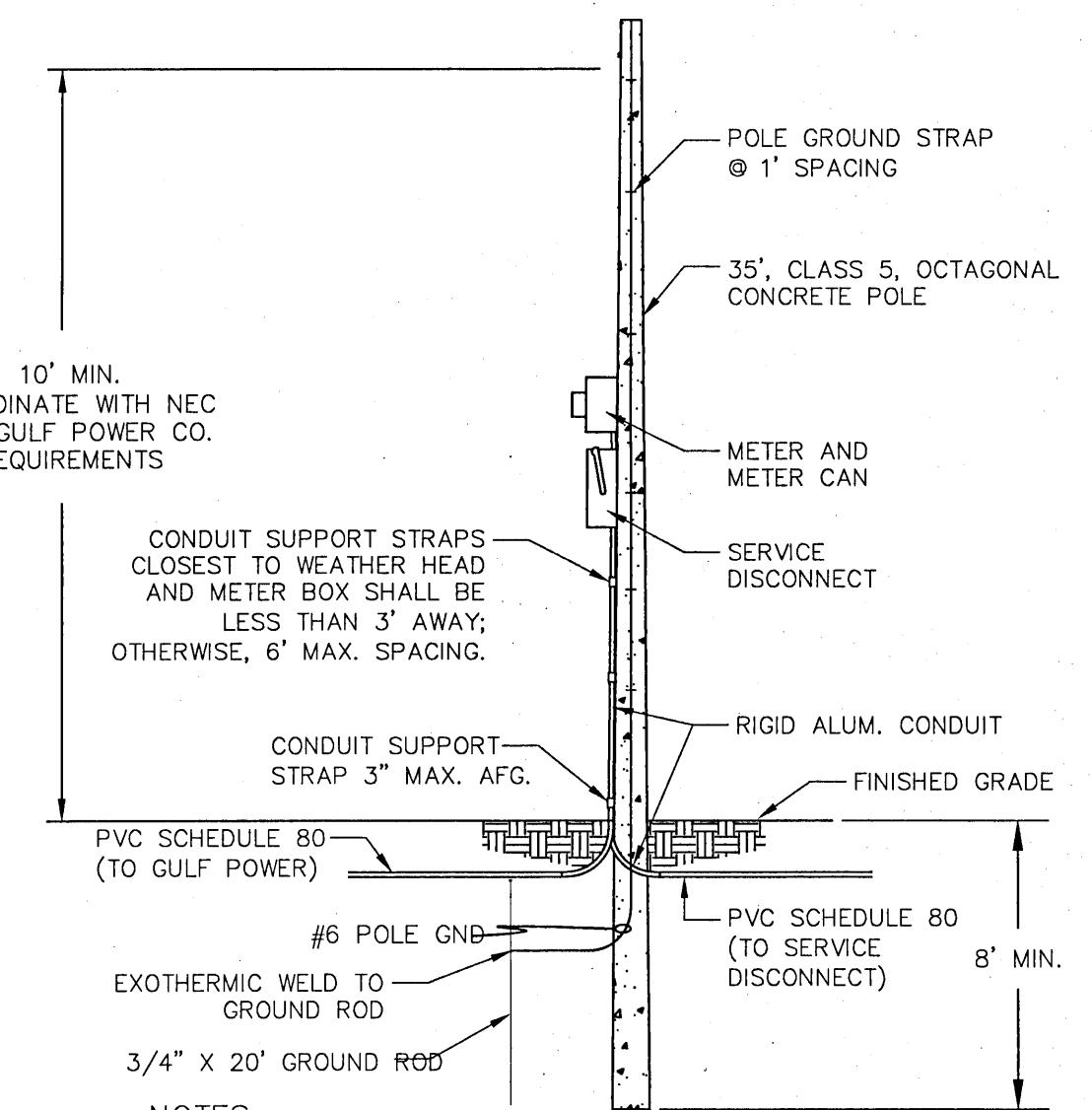
- A. FIXTURE SHALL BE LED, (RAB ALED 13 Y FOR THE GATE AND RAB ALED 18Y FOR THE WETWELL) 120V, WITH PHOTOCONTROL & SWITCH, POLE MOUNTED @ 42" (OR ENGINEER APPROVED EQUAL)
- B. REFER TO SPECIFICATIONS SECTION 16521 "EXTERIOR LIGHTING" FOR ADDITIONAL REQUIREMENTS.
- C. LIGHT FIXTURES SHALL BE MOUNTED AT 15'-0" (MAXIMUM) ABOVE FINISHED GRADE.
- D. LIGHTING FIXTURE LAYOUT SHALL BE BASED UPON ACHIEVING 20 FOOT CANDLES (+/- 20%) AT THE FRONT OF THE CONTROL PANEL (WORK-PLANE OF 24" AFG) AND AT THE WET WELL ACCESS HATCH (WORKPLANE OF 0" AFG).
- E. GENERAL SECURITY LIGHTING SHALL ENCOMPASS ACCESS GATE AND ALL PIPING/EQUIPMENT AT A MIN: AVERAGE 1 FOOT-CANDLE (+/- 20%, AT WORKPLANE OF 0" AFG).
- F. REFER TO LIGHTING CONTROL DIAGRAM ON SHEET DS-7 FOR ADDITIONAL REQUIREMENTS.



DS-6 CONCRETE TOWER/BASE FOR SCADA ANTENNA  
2 NOT TO SCALE

### NOTES:

1. ANTENNA HEIGHT PER ECUA SUPPLIED RADIO PATH STUDY.
2. CONTRACTOR CAN SELECT FROM EITHER ANTENNA TOWER OPTION. ROHN TOWER/BASE SHALL BE CONSTRUCTED PER DETAIL THIS SHEET, CONCRETE TOWER/BASE SHALL BE CONSTRUCTED PER DELEGATED ENGINEERING DOCUMENTS.
3. CONTRACTOR SHALL PROVIDE DESIGN PERFORMED BY FLORIDA LICENSED P.E. AND SHALL INCLUDE DESIGN IN DELEGATED ENGINEERING DOCUMENT.
4. FOR WIND LOAD CALCULATIONS, ASSUME WIND SPEED OF 164 MPH, EXPOSURE "D" PER ASCE 7-10/FBC 2010 WIND DATA, AS WELL AS LOOSE, SANDY SOILS.



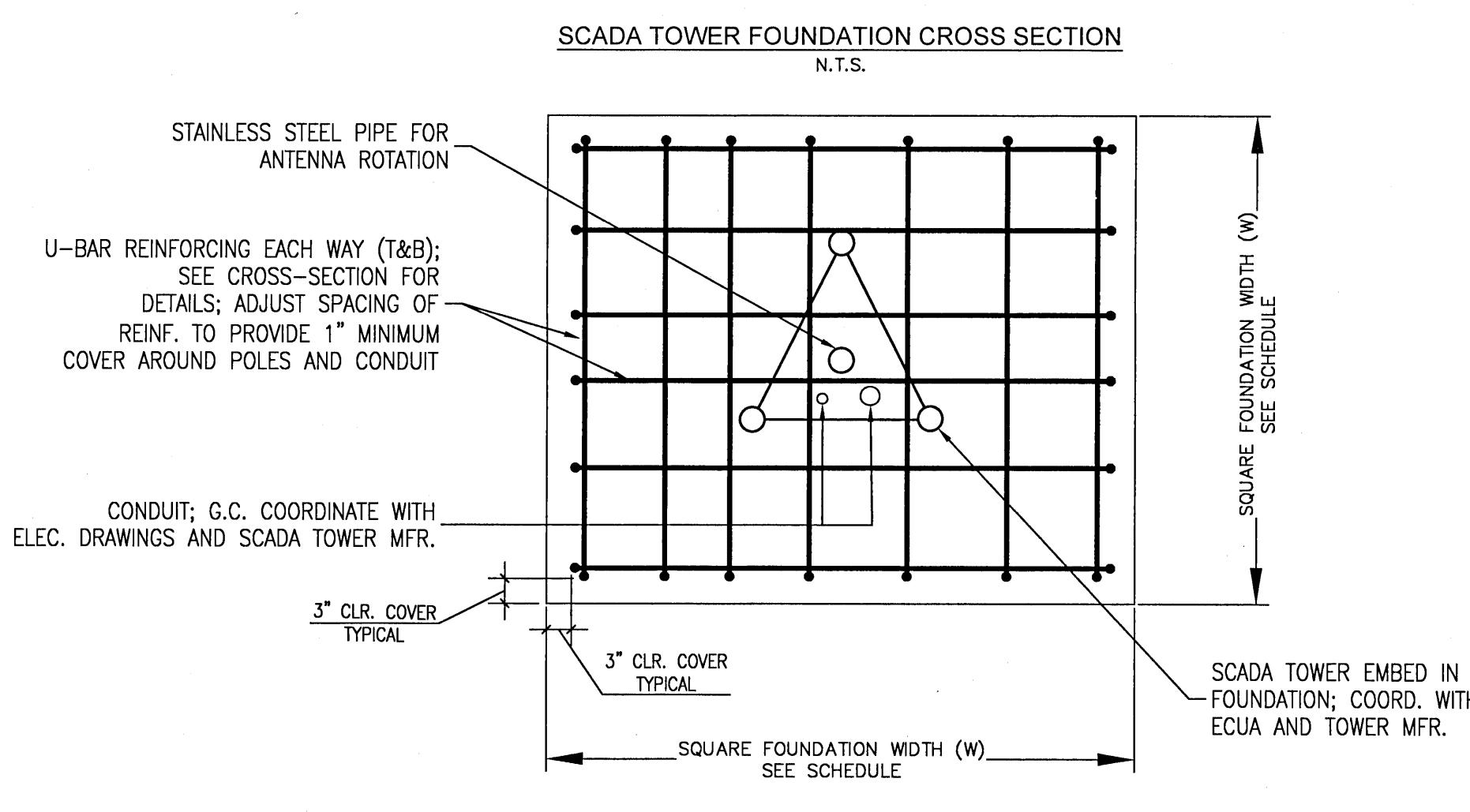
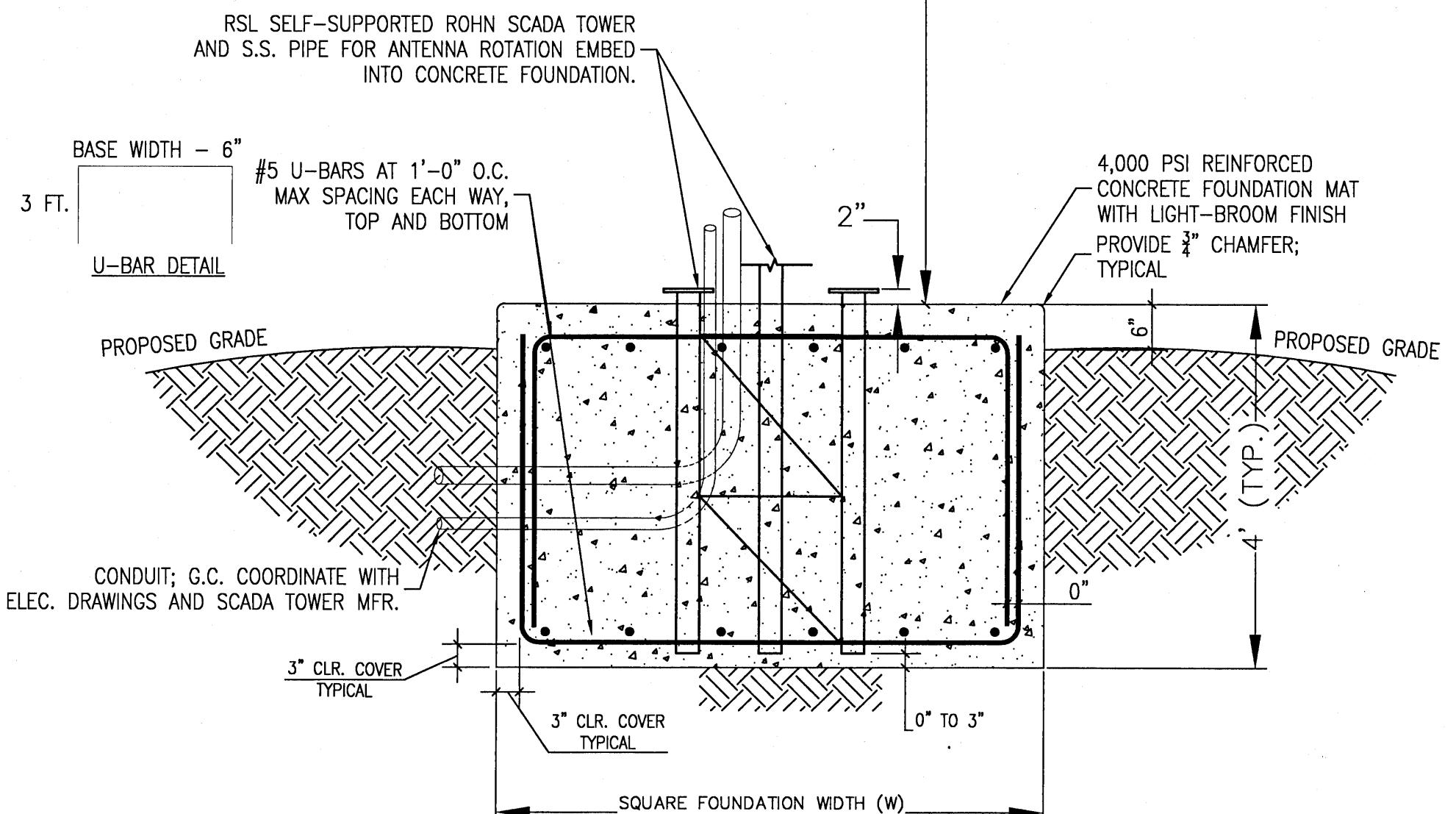
\* SERVICE LATERAL CONDUIT SHALL BE 3" (MIN) SCHEDULE 80 PVC BELOW GRADE AND 3" (MIN) RIGID AL CONDUIT ABOVE GRADE. ANY REQUIREMENTS BY THE UTILITY COMPANY SHALL PREVAIL OVER THE REQUIREMENTS OUTLINED HERE AND SHALL BE COORDINATED BY THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

DS-6 UTILITY POLE DETAIL  
4 NOT TO SCALE

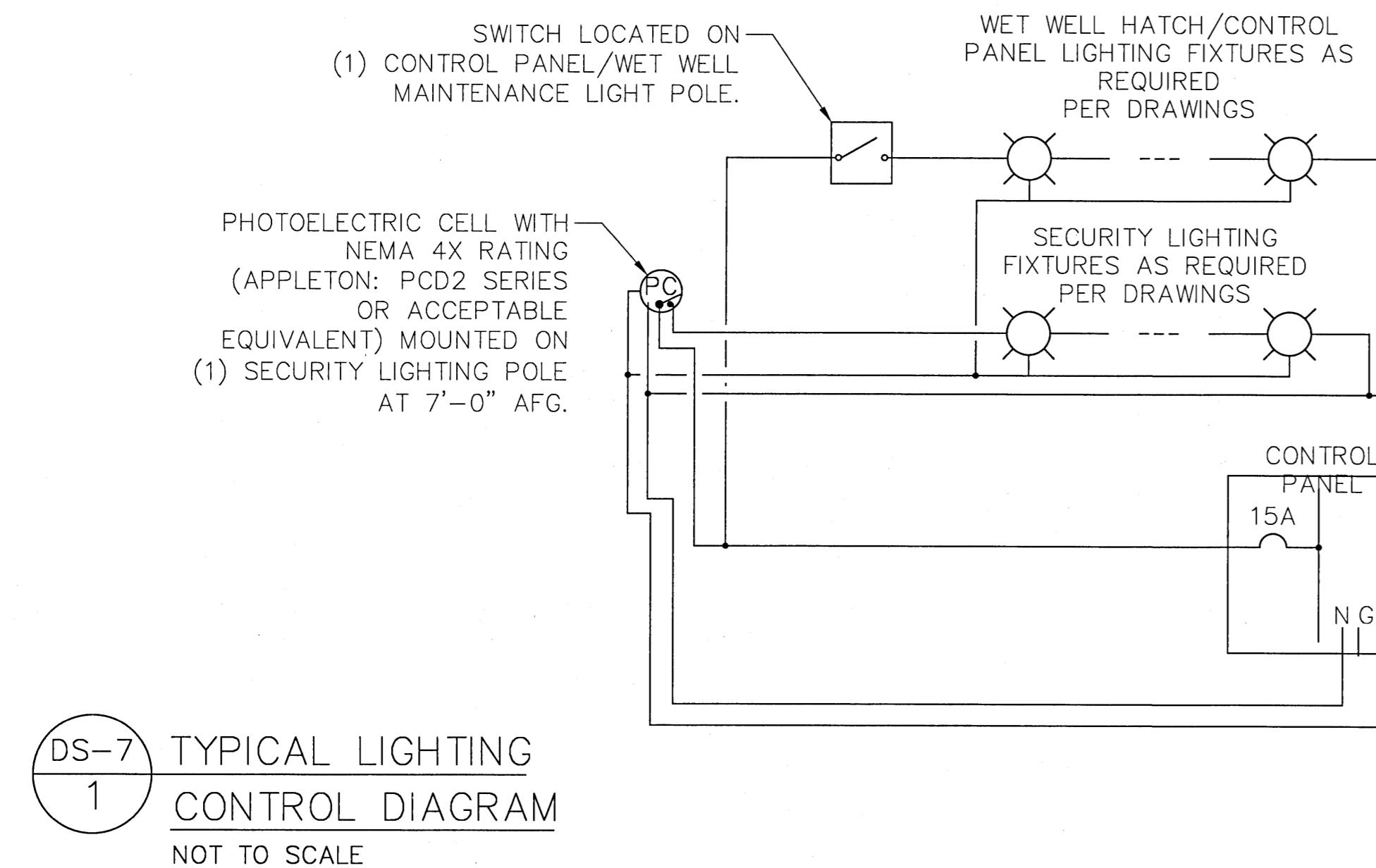
SCADA TOWER FOUNDATION SCHEDULE	
MAX ANTENNA HEIGHT ABOVE GRADE	SQUARE FOUNDATION PLAN DIMENSION (W) x (W)
22'	5'-3" x 5'-3"
32'	6'-6" x 6'-6"
42'	8'-6" x 8'-6"
52'	11'-6" x 11'-6"

APPLICABLE OVER ENTIRE ESCAMBIA COUNTY

- TOWER: RSL ROHN TOWER WITH TESSCO: #37634 ANTENNA
- FOUNDATION DESIGN IS BASED ON LOOSE SANDY SOILS TYPICAL OF ESCAMBIA COUNTY
- ASCE 7-10/FBC 2010 WIND DATA: 164 MPH, EXPOSURE D



DS-6 ROHN TOWER/BASE FOR SCADA ANTENNA  
1 NOT TO SCALE



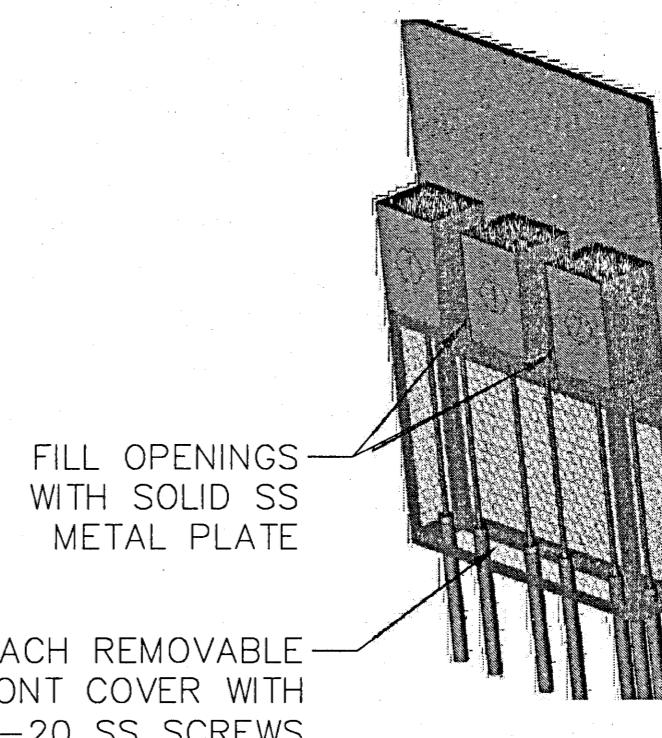
DS-7 1 TYPICAL LIGHTING CONTROL DIAGRAM  
NOT TO SCALE

DETAIL NOTES:

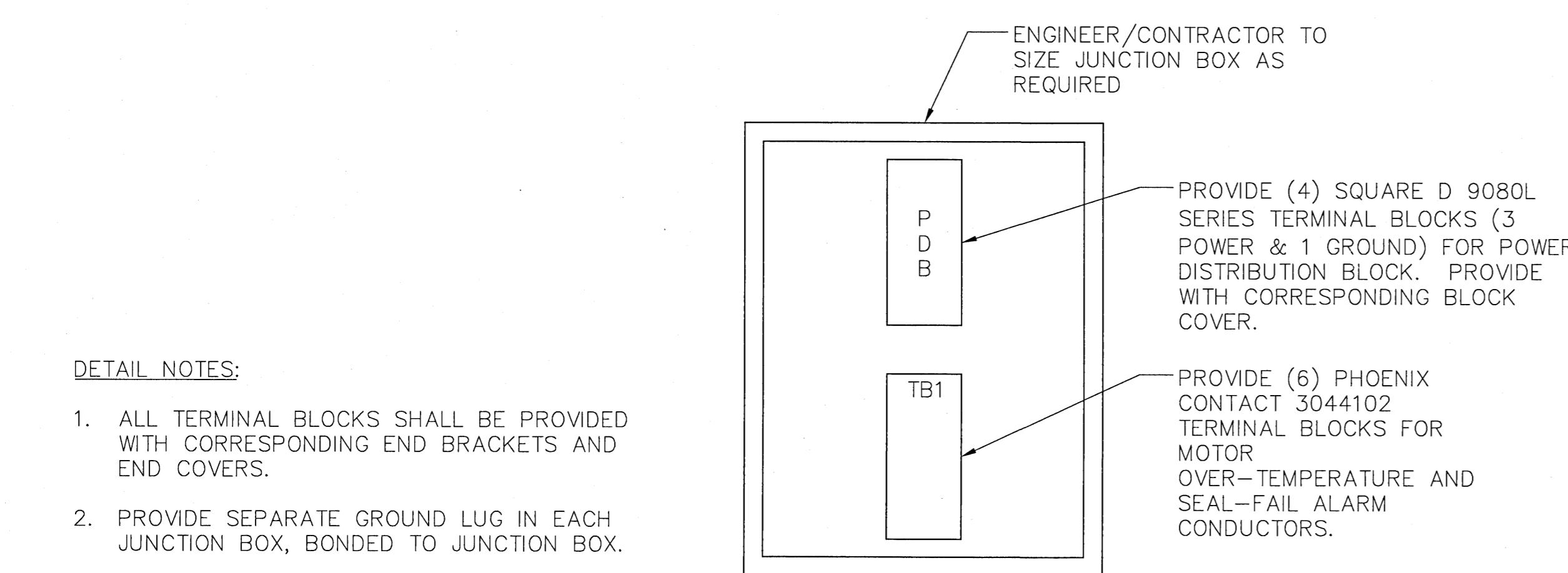
1. THIS DETAIL SHALL ONLY APPLY WHEN THE CONTROL PANEL CANNOT BE PLACED WITHIN 10'-0" OF THE WET WELL TO ALLOW FOR CONNECTION OF STANDARD 50 FOOT PUMP CABLE CONNECTIONS.
2. BACKBOARD SHALL BE PLACED AT THE EDGE OF THE WET WELL SLAB BETWEEN THE WET WELL AND CONTROL PANEL.
3. JUNCTION BOXES SHALL BE MOUNTED SUCH THAT THEY ARE FACING THE WET WELL.
4. ENGINEER/CONTRACTOR SHALL SIZE JUNCTION BOXES AND BACKBOARDS BASED UPON INSTALLATION REQUIREMENTS PROVIDED AT TIME OF DESIGN.

KEY NOTES:

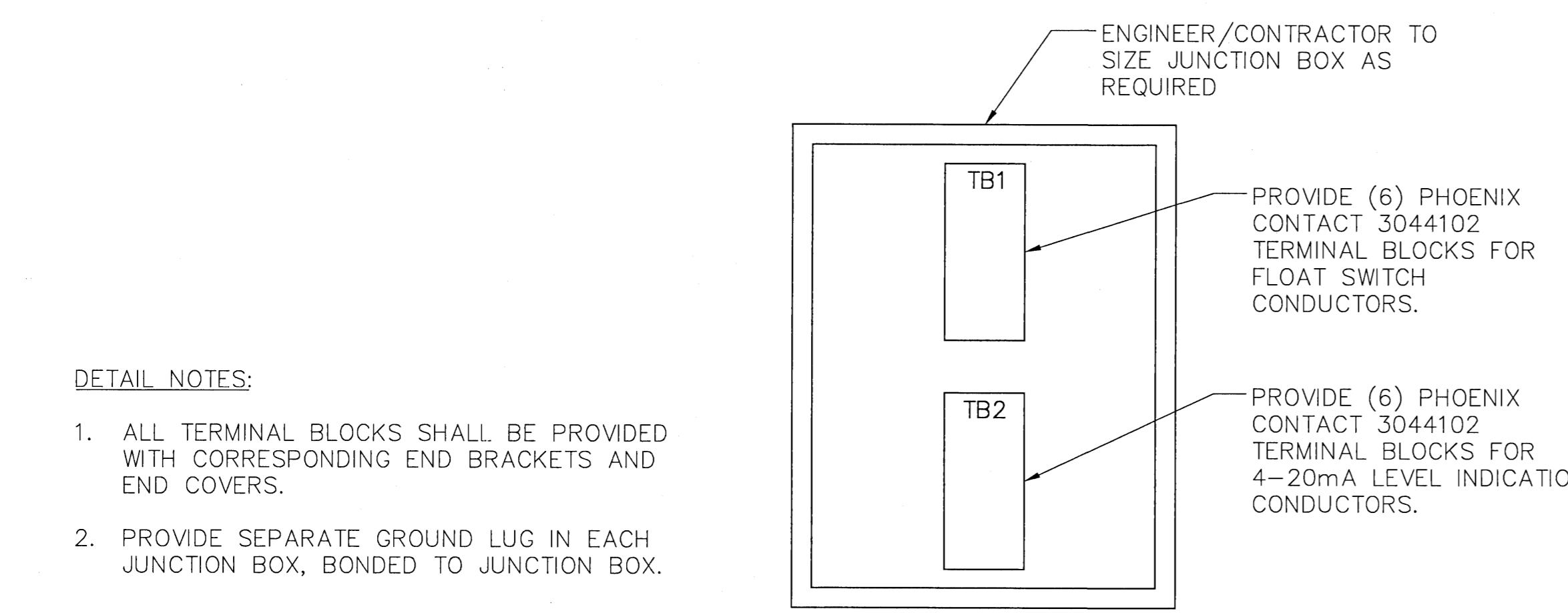
- ① REFER TO "TYPICAL PUMP JUNCTION BOX ELEVATION" (THIS SHEET) FOR ADDITIONAL REQUIREMENTS.  
② REFER TO "TYPICAL LEVEL INDICATION JUNCTION BOX ELEVATION" (THIS SHEET) FOR ADDITIONAL REQUIREMENTS.



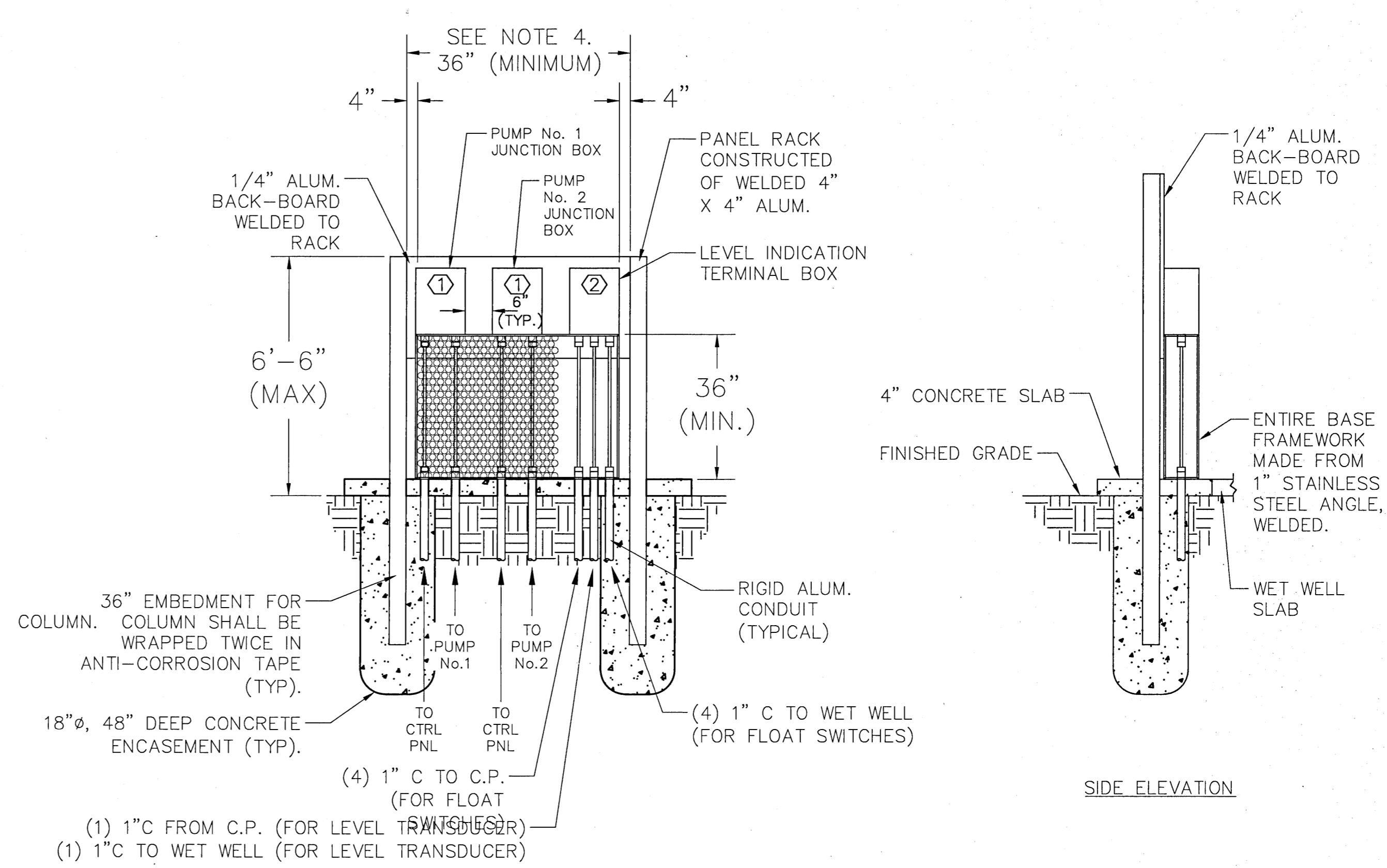
FILL OPENINGS  
WITH SOLID SS  
METAL PLATE  
ATTACH REMOVABLE  
FRONT COVER WITH  
1/4-20 SS SCREWS



DS-7 2 TYPICAL PUMP JUNCTION BOX ELEVATION  
NOT TO SCALE



DS-7 3 TYPICAL LEVEL INDICATION JUNCTION BOX ELEVATION  
NOT TO SCALE



FRONT ELEVATION

SIDE ELEVATION

DS-7 4 TYPICAL PUMP JUNCTION BOXES  
NOT TO SCALE

PECAN VALLEY

LIFTSTATION DETAILS

NUMBER	REVISION	
DATE		
DRAWN BY: B. PEMENT		
DESIGNED BY: D. FITZPATRICK		
SIGNATURE & SEAL		
<p>DAVID W. FITZPATRICK LICENSURE NO. 47818 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE 07/19/21</p>		
PROJECT NUMBER	19-049	
PLOT DATE	07/19/21	
SHEET C40 OF C42		



# EOR's Summary of Performance and Design Criteria for Contractor's Delegated Engineering Documents

This sheet acts as a summary only. Contractor is required to thoroughly examine the remainder of these plans as well as ECUA's Engineering Manual for all performance and design criteria, which as a whole, is considered sufficient for Contractor's use in bidding and coordinating professional design services for the development of Contractor's Delegated Engineering Documents.

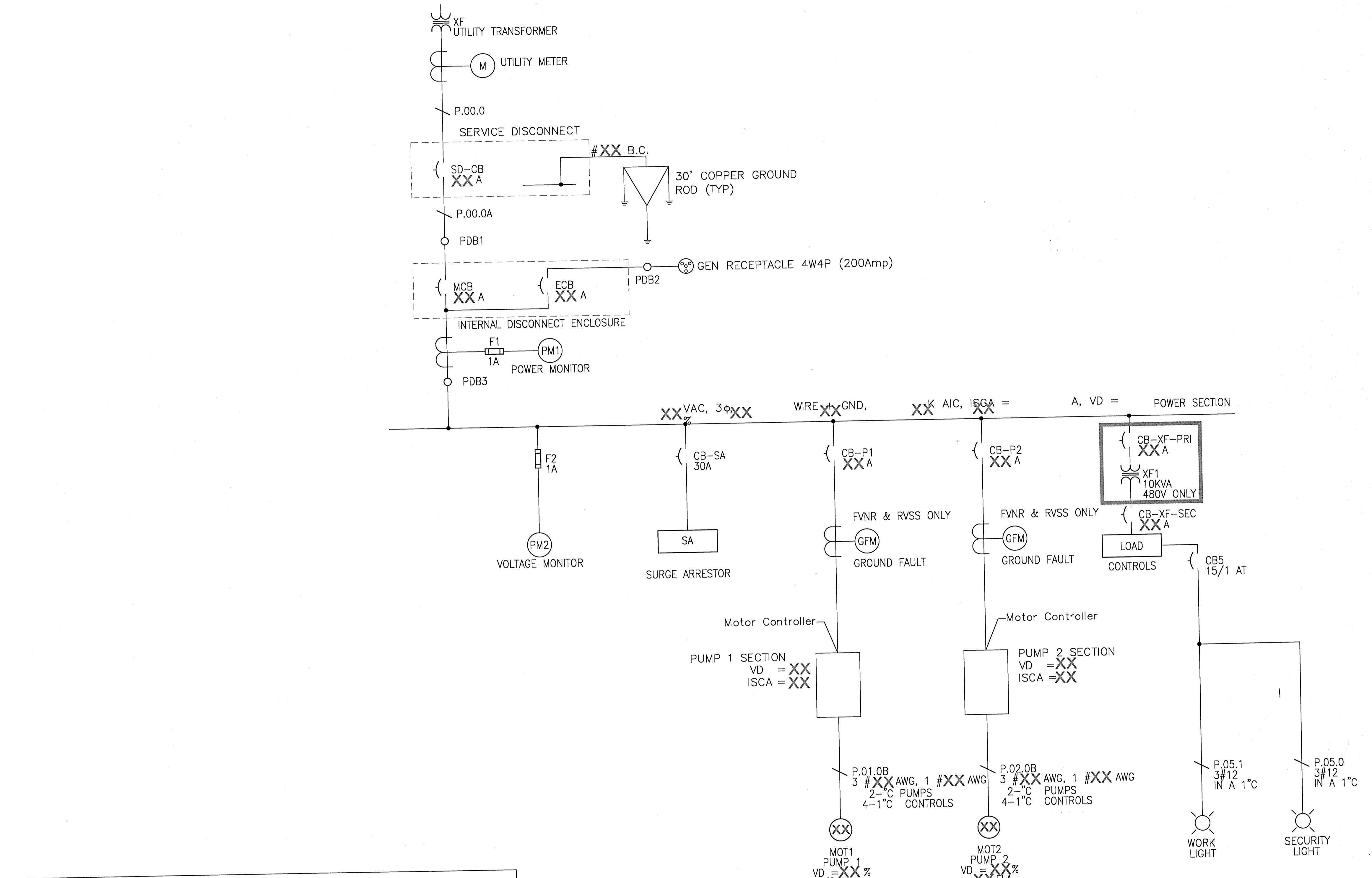
<u>Delegated Engineering Design</u>	<u>EOR Supplied Design Criteria</u>	<u>Applicable Design Standards</u>
Fiberglass Wet Well	Diameter (feet): 8 Depth (feet): 17.5	Plans, ECUA Engineering Manual, ASTM D3753, Fiberglass Manufacturer's Recomendations
Pump Mounting Baseplate	See Wet Well dimensions above and List of Allowable Pumps on Pump Selection Worksheet	Plans and ECUA Engineering Manual
Anti-flotation Concrete Base	See Wet Well dimensions above	Plans and ECUA Engineering Manual
Concrete Cover	See Site Plan for cover dimensions	Plans and ECUA Engineering Manual
Control Panel Base	See Control Panel information above and Site Plan for location	Plans and ECUA Engineering Manual
Electrical Control Panels	Panel Layout: <input type="checkbox"/> Abutting <input checked="" type="checkbox"/> Linear Service Voltage: <input checked="" type="checkbox"/> 480V <input type="checkbox"/> 240V Starter Type: <input type="checkbox"/> FVNR <input checked="" type="checkbox"/> RVSS <input type="checkbox"/> VFD	Plans, ECUA Engineering Manual, and ECUA Design Standard Drawings DS-xx through DS-xx
Work/Security Light Poles and Bases	See Plans	Plans and ECUA Engineering Manual
Concrete Pole and Base for SCADA Antenna (if applicable)	Antenna Height (feet): 65'	Plans and ECUA Engineering Manual

THIS SHEET CREATED BASED ON ECUA DESIGN STANDARDS DRAWING DS-8

PECAN VALLEY		LIFTSTATION DETAILS
<p><b>DAVID W. FITZPATRICK</b></p> <p>PROFESSIONAL ENGINEER, P.A.</p> <p>BOARD OF PROFESSIONAL REGULATION #000008423</p> <p>10250 NORTH PALAFOX STREET PENSACOLA, FL 32534</p> <p>PH: (850)476-8677 FAX: (850)476-7708</p>		
<p>DRAWN BY: B. PEMENT</p> <p>DESIGNED BY: D. FITZPATRICK</p> <p>SIGNATURE &amp; SEAL</p> <p>DAVID W. FITZPATRICK LICENSE NO. 47818 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 9/21</p>		
<p>PROJECT NUMBER 19-049</p> <p>PLOT DATE 07/19/21</p> <p>SHEET C41 OF C42</p>		

# PECAN VALLEY

LIFTSTATION DETAILS



FEEDER MARK	# OF SETS	CONDUIT SIZE	PHASE CONDUCTOR	GROUND NEUTRAL	CONTROL CONDUCTOR	SOURCE	DESTINATION
P.00.0	1	2"	XX	N/A	XX	N/A	UTILITY METER
P.00.0A	1	2"	XX	N/A	XX	N/A	SERVICE DISCONNECT
P.01.0B	1	1"	XX	N/A	XX	N/A	CONTROL PANEL PUMP1 SECTION
P.02.0B	1	1"	XX	N/A	XX	N/A	CONTROL PANEL PUMP2 SECTION
P.05.0	1	1"	1#12 AWG	1#12 AWG	1#12 AWG	N/A	CONTROL PANEL POWER SECTION

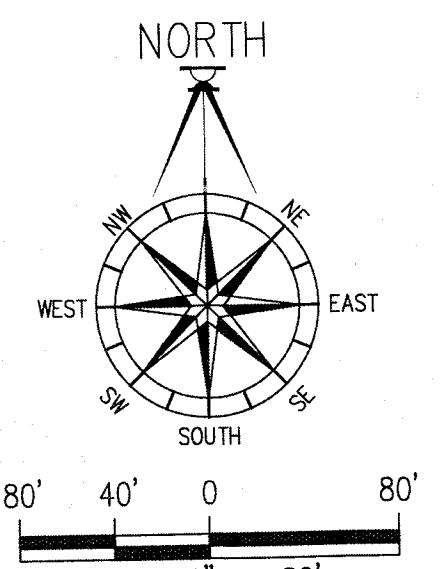
ALL OTHER CABLES ARE REFERENCED IN THE CONTROL PANEL DESIGN DRAWINGS

## CABLE SCHEDULE

THIS SHEET CREATED BASED ON ECUA DESIGN STANDARDS DRAWING DS-11

NUMBER	REVISON	DATE
DRAWN BY: B. PEMENT		
DESIGNED BY: D. FITZPATRICK		
SIGNATURE & SEAL		
PROJECT NUMBER	19-049	
PLOT DATE	07/19/21	
SHEET C42 OF C42		

**WETLAND/BUFFER PROTECTION NOTE:**  
UNLESS OTHERWISE SHOWN, ALL WETLANDS, STREAMS, ESLs, AND BUFFERS ARE TO  
REMAIN IN THEIR NATURAL STATE AND PROTECTED THROUGHOUT CONSTRUCTION.



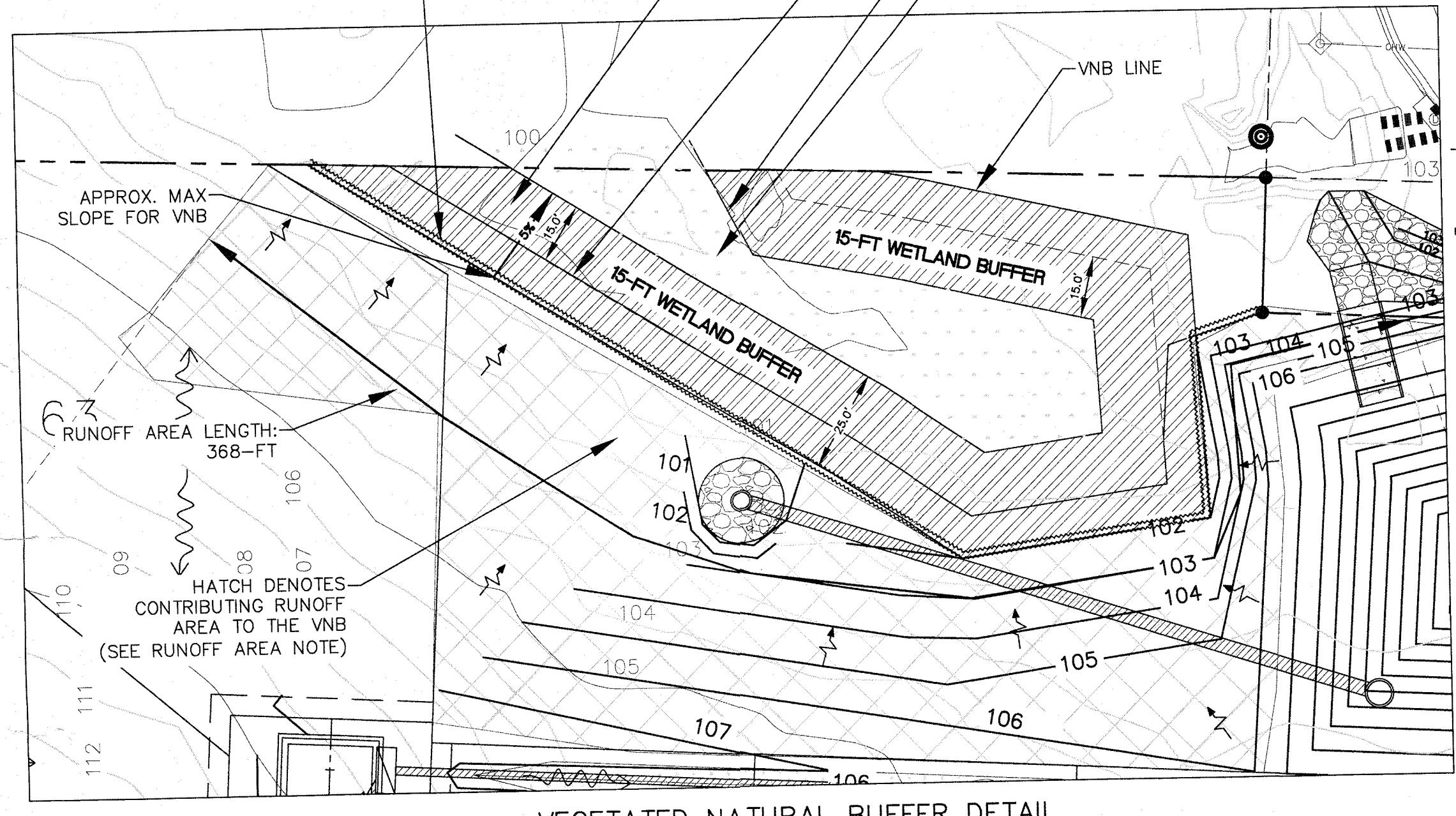
PROPOSED DOUBLE ROW SILT FENCE & ROW OF HAYBALES ALONG VEGETATED NATURAL BUFFER LINE (SEE DETAIL)

HATCH DENOTES 25-FT VEGETATED NATURAL BUFFER (VNB)

15-FT WETLAND BUFFER LINE

WETLAND LINE

FDEP, ACOE, NFWMD, & ESCAMBIA COUNTY WETLAND JURISDICTION LINE AS FLAGGED BY WETLAND SCIENCES INC. NOVEMBER 2019



GENERAL NOTES:

1. PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NFWFMD) REQUIREMENTS, THE LENGTH OF THE RUNOFF AREA MUST NOT EXCEED THE LENGTH OF THE VNB:

RUNOFF AREA LENGTH: 368-FT.  
VNB LENGTH: 400-FT.

THEREFORE VNB IS ADEQUATE PER NFWFMD ERP  
APPLICANTS HANDBOOK VOL. II SECTION 11.6

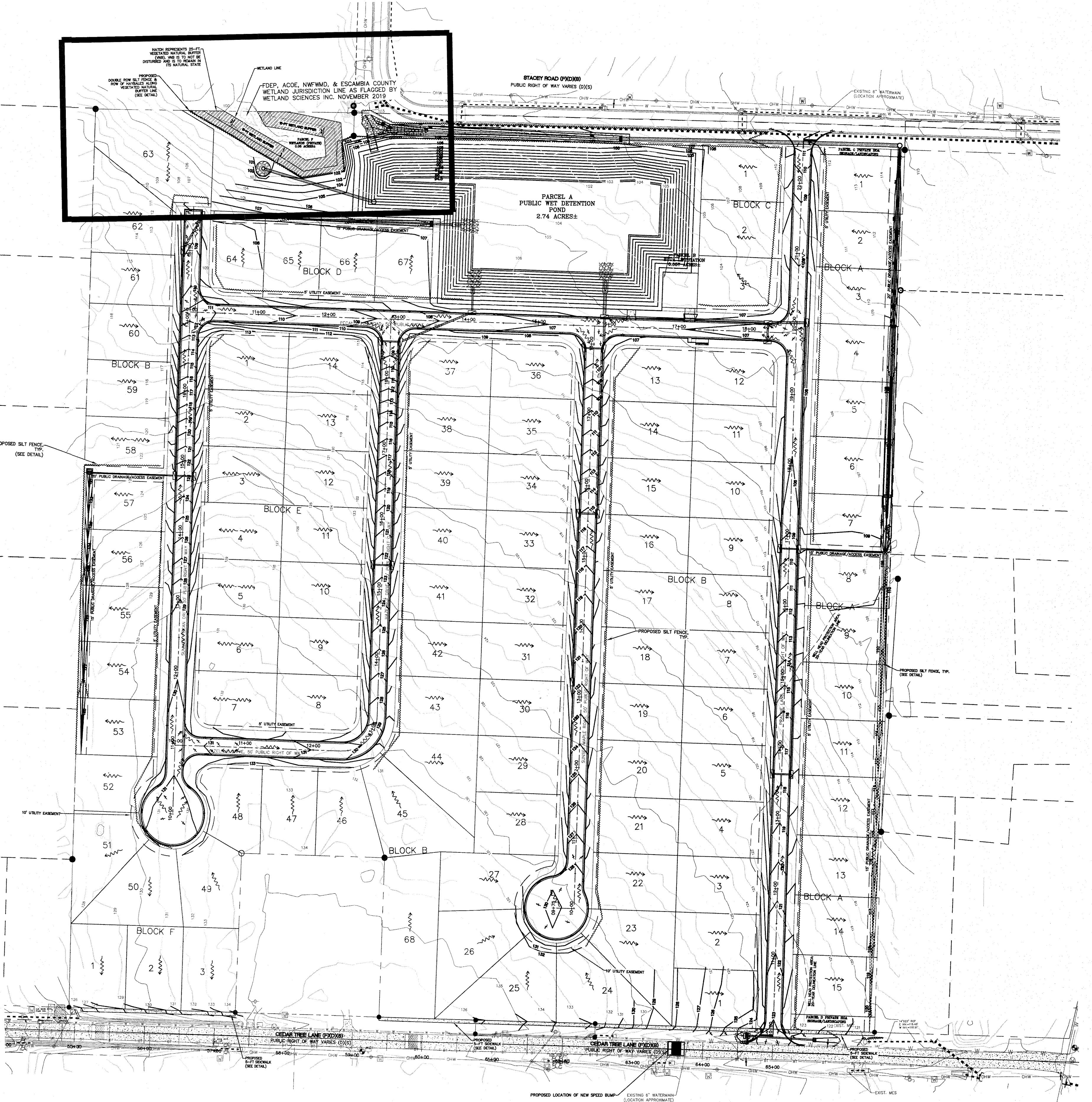
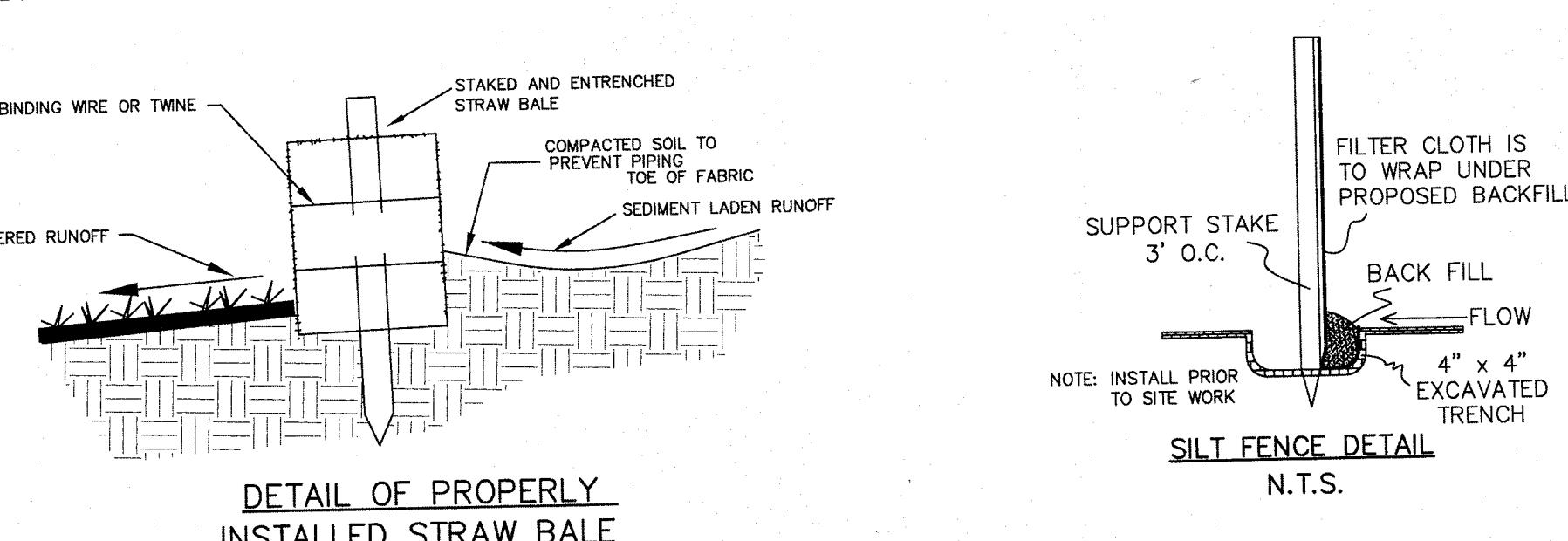
2. PER NFWFMD REQUIREMENTS, THE MAX SLOPE IN THE VNB CANNOT EXCEED 15%. THE MAX SLOPE IN THE PROPOSED VNB IS 5%, WHICH MEETS THE

REQUIREMENTS PER ERI APPENDIX HANDBOOK  
SECTION 11.5.

3. THE VNB SHALL NOT BE DISTURBED DURING THE  
DEVELOPMENT OF THE PROJECT, AND SHALL CONTAIN  
INFORMATION

## NATURALLY OCCURRING NATIVE VEGETATION

RUNOFF AREA NOTE: THE CONTRIBUTING AREA TO THE VEGETATED NATURAL BUFFER SHALL BE STABILIZED WITH PERMANENT VEGETATIVE COVER THAT IS CONSISTENT WITH THE FLORIDA YARDS AND NEIGHBORHOOD PROGRAM, PER ERP APPLICANTS HANDBOOK VOLUME II SECTION 11.2.



# PECAN VALLEY

ENVIRONMENTAL PLAN

**PROFESSIONAL ENGINEER, P.A.**  
**BOARD OF PROFESSIONAL REGULATION #000008423**  
10250 NORTH PALAFOX STREET  
PENSACOLA, FL 32534  
PH: (850)476-8677 FAX: (850)476-7708

DRAWN BY:  
B. PEMENT  
DESIGNED BY:  
D. FITZPATRICK

RICK

A circular official stamp with a decorative border containing the text "PROFESSIONAL LICENSE" around the top and "STATE OF ILLINOIS" at the bottom. In the center, it features a large signature of "DAVID W. FITZPATRICK" and the number "No 47818". There are two small five-pointed stars on either side of the signature.

ESS  
DATE:

9-049

PLOT DATE	07/19/21
SHEET	E1 OF E1

10 of 10