PREPARED FOR: CITY OF CALLAWAY



ADDRESS 6601 EAST HIGHWAY 22 CALLAWAY, FLORIDA 32404 PHONE: (850) 871-6000

CITY OFFICIALS:

MAYOR PAMN HENDERSON COMMISSIONER SCOTT DAVIS COMMISSIONER DAVID GRIGGS COMMISSIONER **BOB PELLETIER** COMMISSIONER FRANK MANCINELLI

CITY MANAGER KEITH "EDDIE" COOK PUBLIC WORDS DIRECTOR BILL FRYE

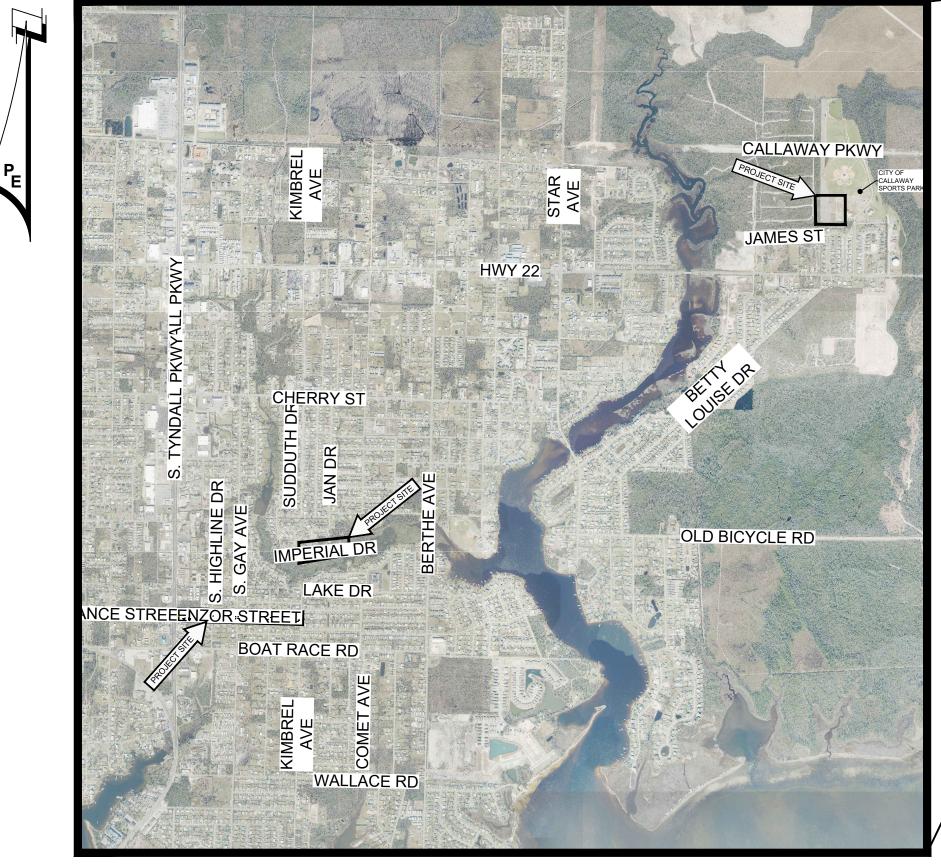
JANICE PETERS

PREPARED BY:

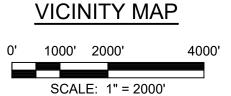


CITY CLERK

ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS 600 Ohio Avenue Lynn Haven, Florida 32444 (850)763-5200 www.panhandleengineering.com



LAT ~ N30° 07' 58" LONG ~ W85° 35' 13"



RELEASED FOR BIDDING **PURPOSES ONLY** NOT RELEASED FOR CONSTRUCTION

APRIL 2022

LENGTH OF PROJECT				
LINEAR FEET MILES				
2,597	0.49			
500	0.90			
645	0.12			
	LINEAR FEET 2,597 500			

K	EY SHEET REVISIONS
DATE	DESCRIPTION

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, "STANDARD PLANS", FY 2019-20 AND

FOR DESIGN STANDARDS MODIFICATIONS CLICK ON THE "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE: https://www.fdot.gov/roadway/DS/18/STDs.shtm

https://www.fdot.gov/programmanagement/implemented/specbooks/default.shtm

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CLICK ON THE "SPECIFICATIONS" LINK AT THE **FOLLOWING WEB SITE:**

to have underground utilities located and marked.



ENGINEER OF RECORD: CHRIS FOREHAND, P.E. (FL REG NO. 58028)



K1 - KEY SHEET (FOR ALL THREE LOCATIONS)

PROJECT No. 26038 ~ ENZOR ST

E1 - EXISTING CONDITIONS

E2 - EXISTING CONDITIONS

E3 - EXISTING CONDITIONS

E4 - PLAN VIEW

E5 - PLAN VIEW **E6 - PLAN VIEW**

E7 - EROSION CONTROL NOTES and DETAILS

E8 - FDOT MAINTENANCE OF TRAFFIC DETAILS

E9 - FDOT SIGNAGE DETAILS

E10 - UTILITY NOTES and TRAFFIC DETAILS

E11 - TYPICAL SECTIONS and DETAILS

E12 - GENERAL NOTES

PROJECT No. 26035 ~ IMPERIAL DRIVE

11 - EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN

12 - ROADWAY PLAN AND PROFILE

13 - UTILITY PLAN

14 - GRADING AND DRAINAGE PLAN

15 - GRADING AND DRAINAGE PLAN

16-19 - CROSS SECTIONS

110 - EROSION CONTROL DETAILS

111 - CONSTRUCTION DETAILS

112 - UTILITY DETAILS

113 - UTILITY DETAILS

PROJECT No. 26027 ~ LOOP ROAD

L1 - EXISTING CONDITIONS AND DEMOLITION PLAN

L2 - SITE PLAN

L3 - GRADING AND DRAINAGE PLAN

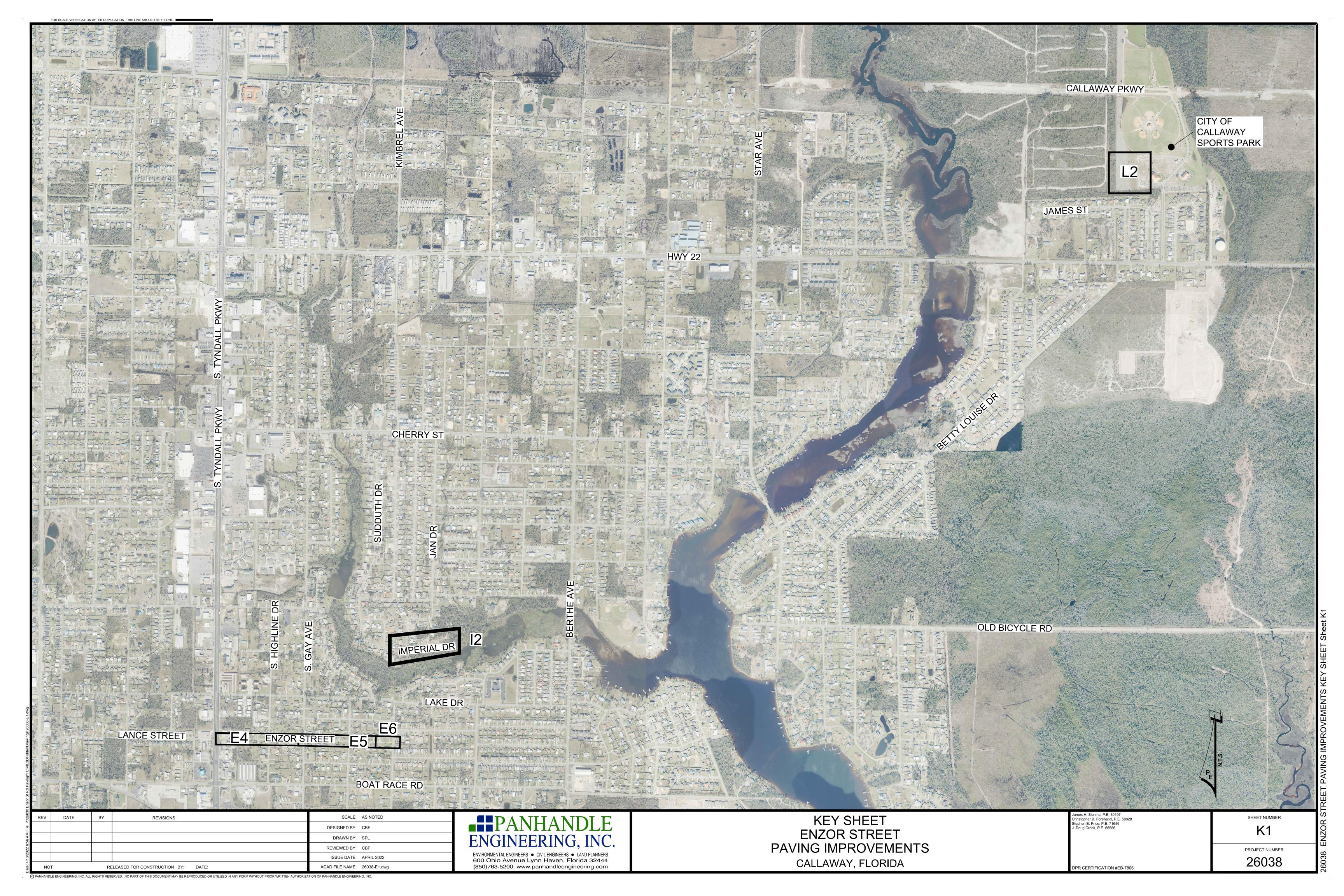
L4 - EROSION CONTROL PLAN

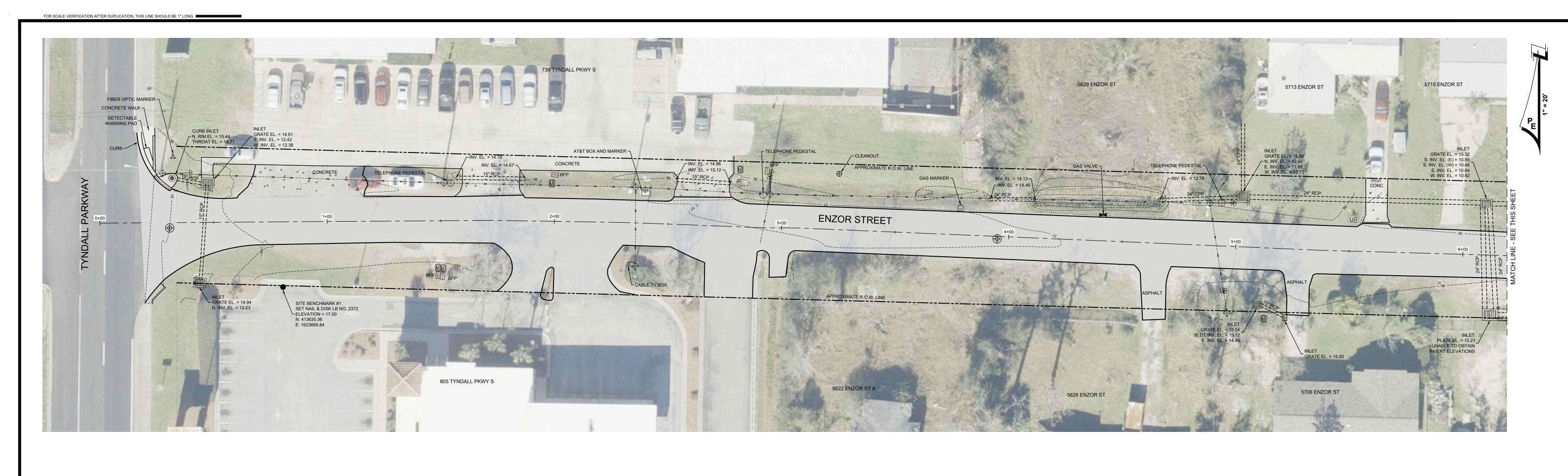
L5 - CONSTRUCTION DETAILS

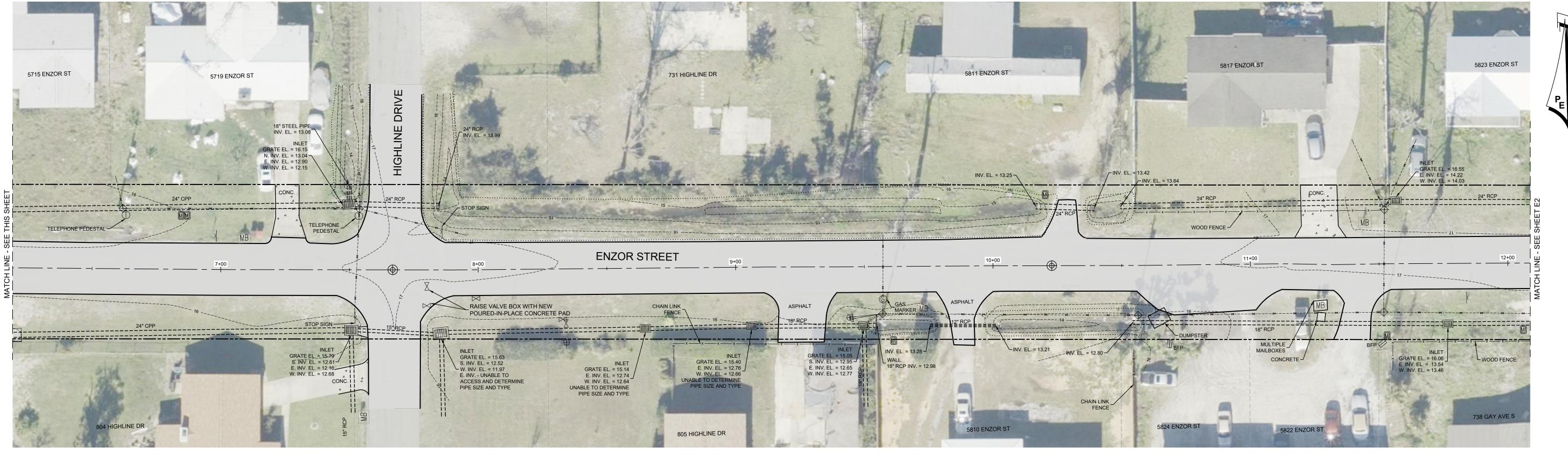
L6 - CONSTRUCTION DETAILS

L7 - STORMWATER POLLUTION PREVENTION PLAN









LEGEND

- ⋈ EX. WATER VALVE Ψ EX. FIRE HYDRANT
- EX. WATER METER EX. SEWER MANHOLE
- EX. SIGN POLE

♦ EX. POWER POLE ---15'---- EX. CONTOUR

EX. ASPHALT EX. CONCRETE PRO. ASPHALT

SHEET NUMBER

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556

OPR CERTIFICATION #EB-7806

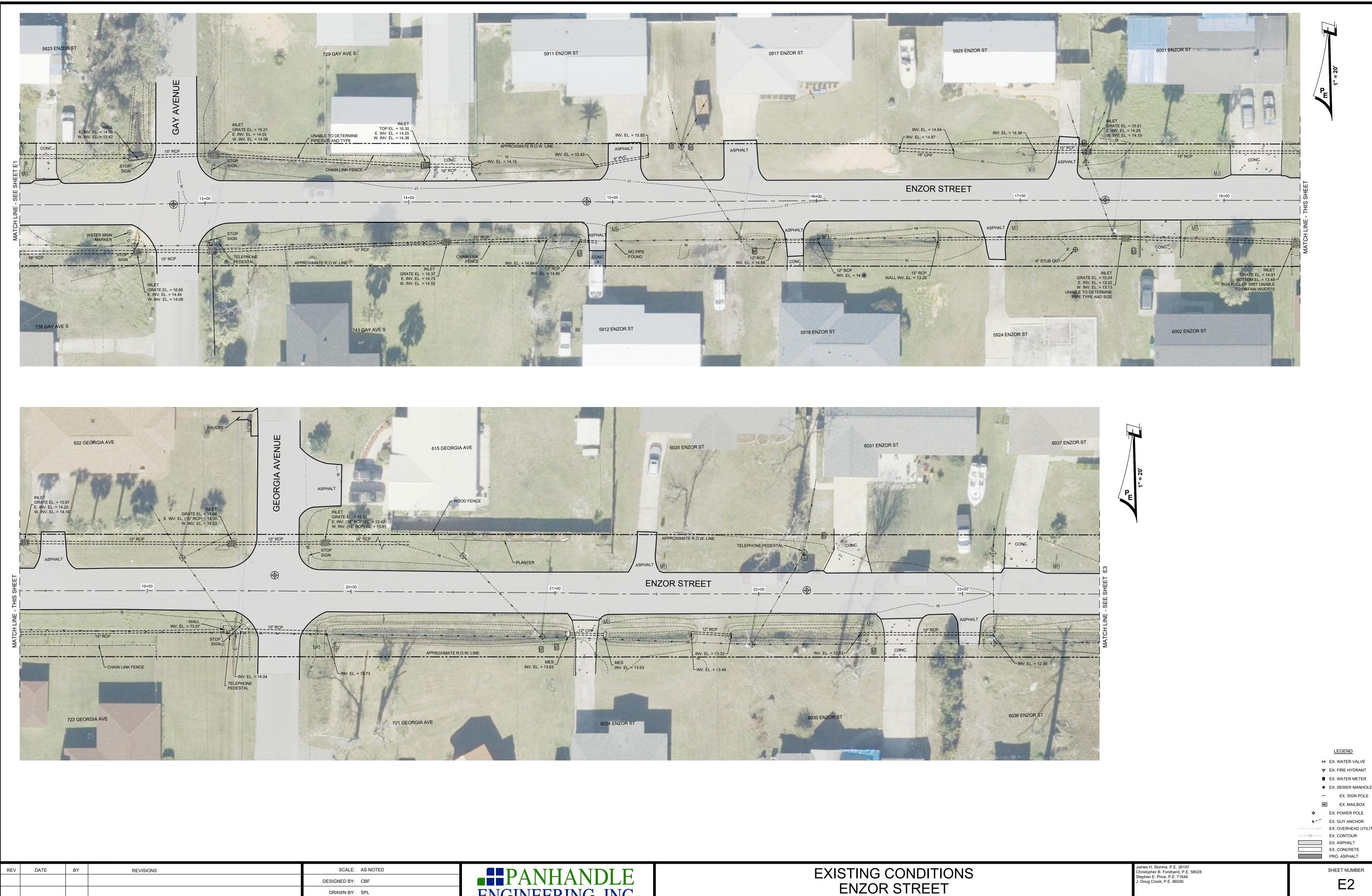
PROJECT NUMBER 26038

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					ISSUE DATE:	APRIL 2022		
Jate: 4	NC)T	RE	ELEASED FOR CONSTRUCTION BY: DATE:	ACAD FILE NAME:	26038-E1.dwg		

ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS 600 Ohio Avenue Lynn Haven, Florida 32444

(850)763-5200 www.panhandleengineering.com

EXISTING CONDITIONS ENZOR STREET PAVING IMPROVEMENTS CALLAWAY, FLORIDA



REVIEWED BY: CBF

RELEASED FOR CONSTRUCTION BY: DATE:

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ISSUE DATE: APRIL 2022

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PAVING IMPROVEMENTS

CALLAWAY, FLORIDA

FOR SCALE VERIFICATION AFTER DUPLICATION. THIS LINE SHOULD BE 1" LONG.

EX. POWER POLE

EX. GUY ANCHOR

EX. OVERHEAD UTILITY

EX. CONTOUR

EX. ASPHALT

EX. CONCRETE

PRO. ASPHALT

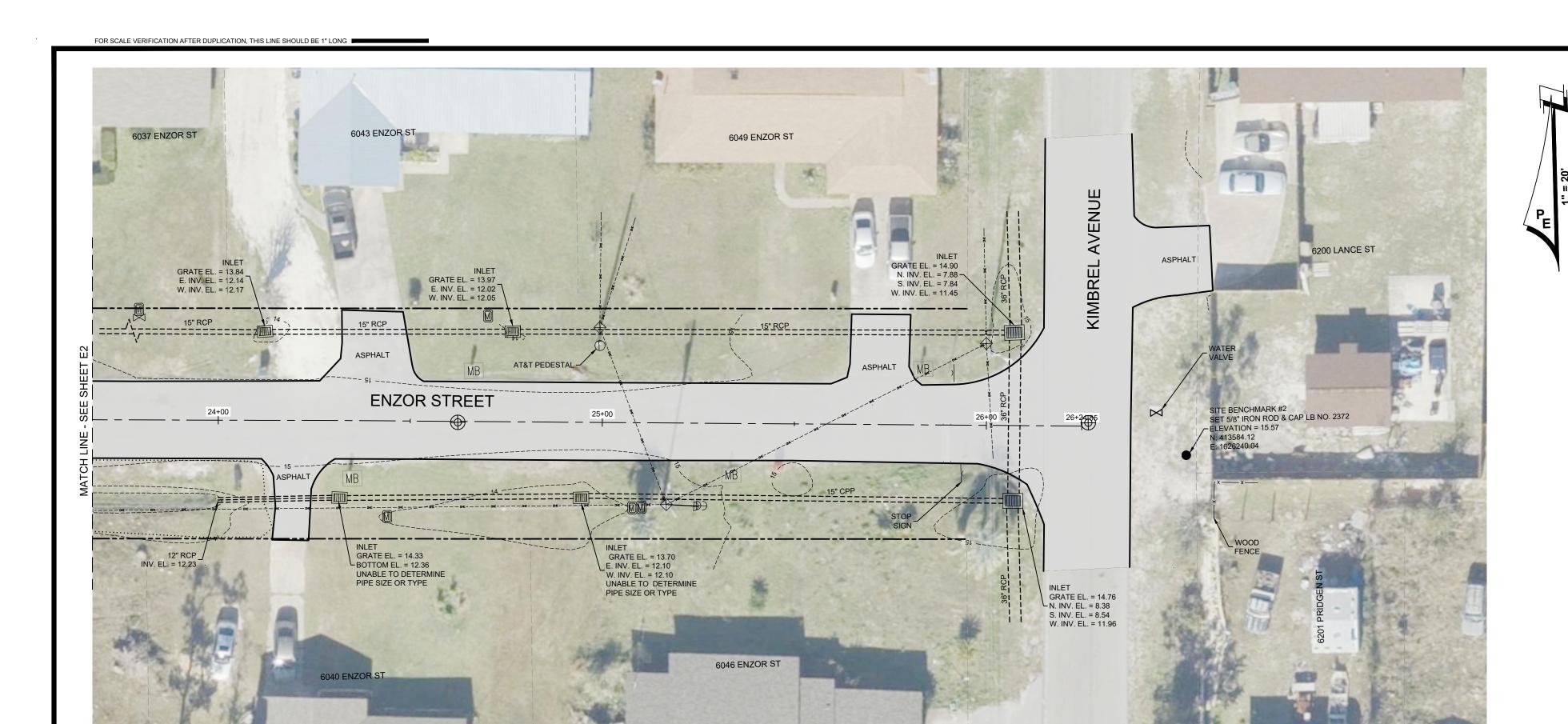
SHEET NUMBER

E2

PROJECT NUMBER

26038

OPR CERTIFICATION #EB-7806



SCALE: AS NOTED

DESIGNED BY: CBF

REVIEWED BY: CBF

DRAWN BY: SPL

ISSUE DATE: APRIL 2022

ACAD FILE NAME: 26038-E1.dwg

<u>LEGEND</u>

⋈ EX. WATER VALVE ❤ EX. FIRE HYDRANT

EX. WATER METER EX. SEWER MANHOLE

EX. SIGN POLE

♦ EX. POWER POLE

----15'---- EX. CONTOUR EX. ASPHALT EX. CONCRETE

PRO. ASPHALT

SHEET NUMBER

26038

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556

DPR CERTIFICATION #EB-7806

E3 PROJECT NUMBER

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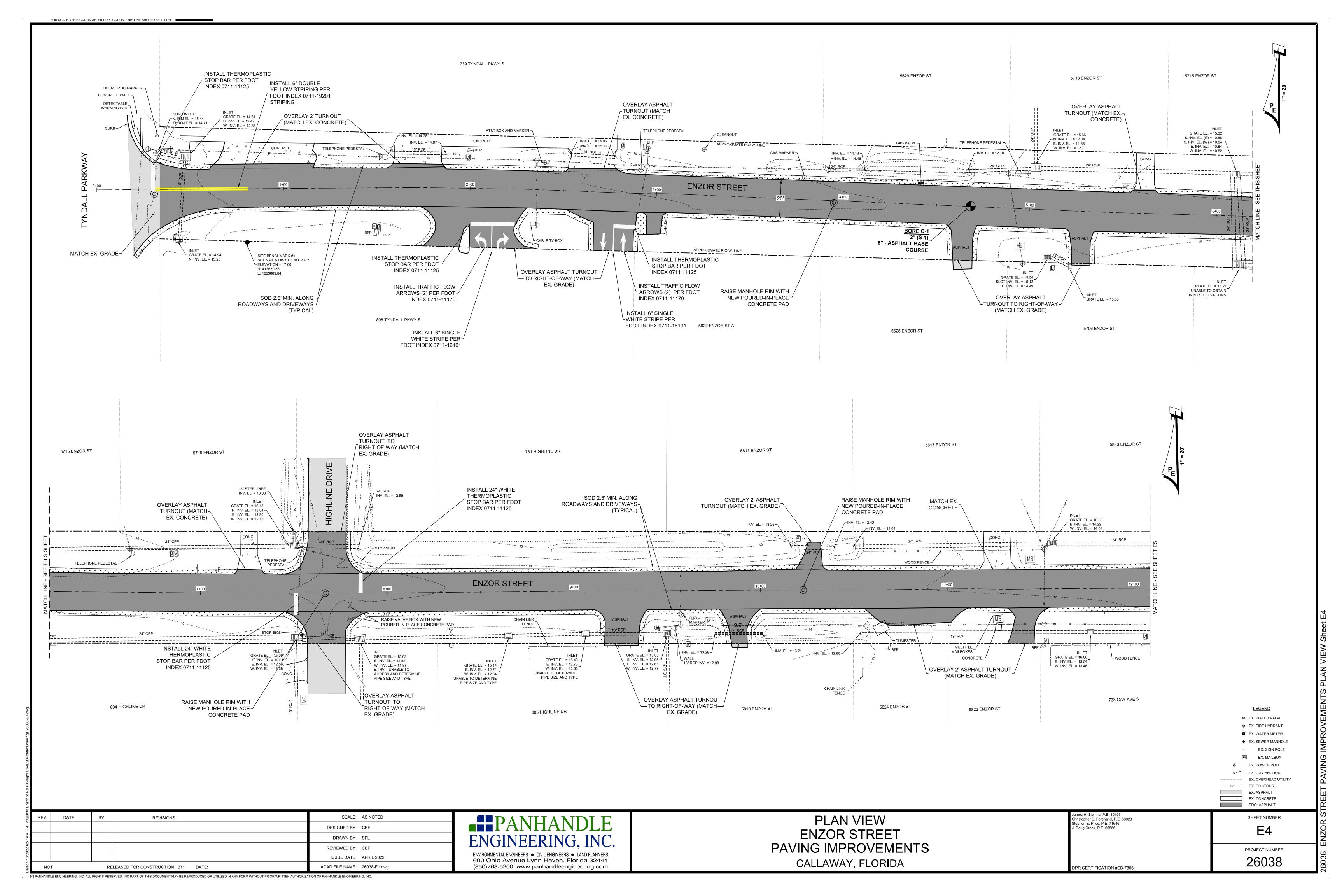
EXISTING CONDITIONS ENZOR STREET PAVING IMPROVEMENTS CALLAWAY, FLORIDA

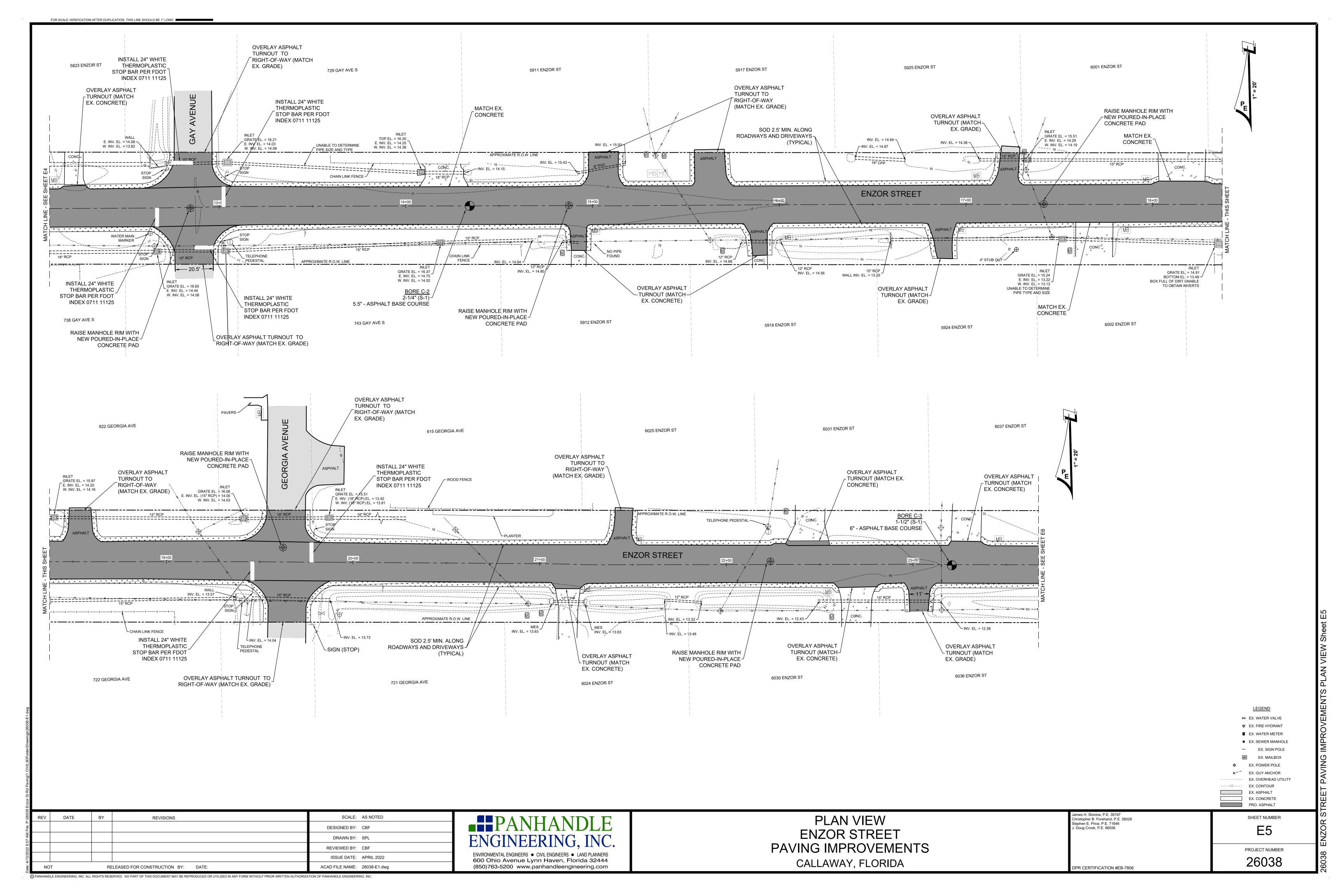
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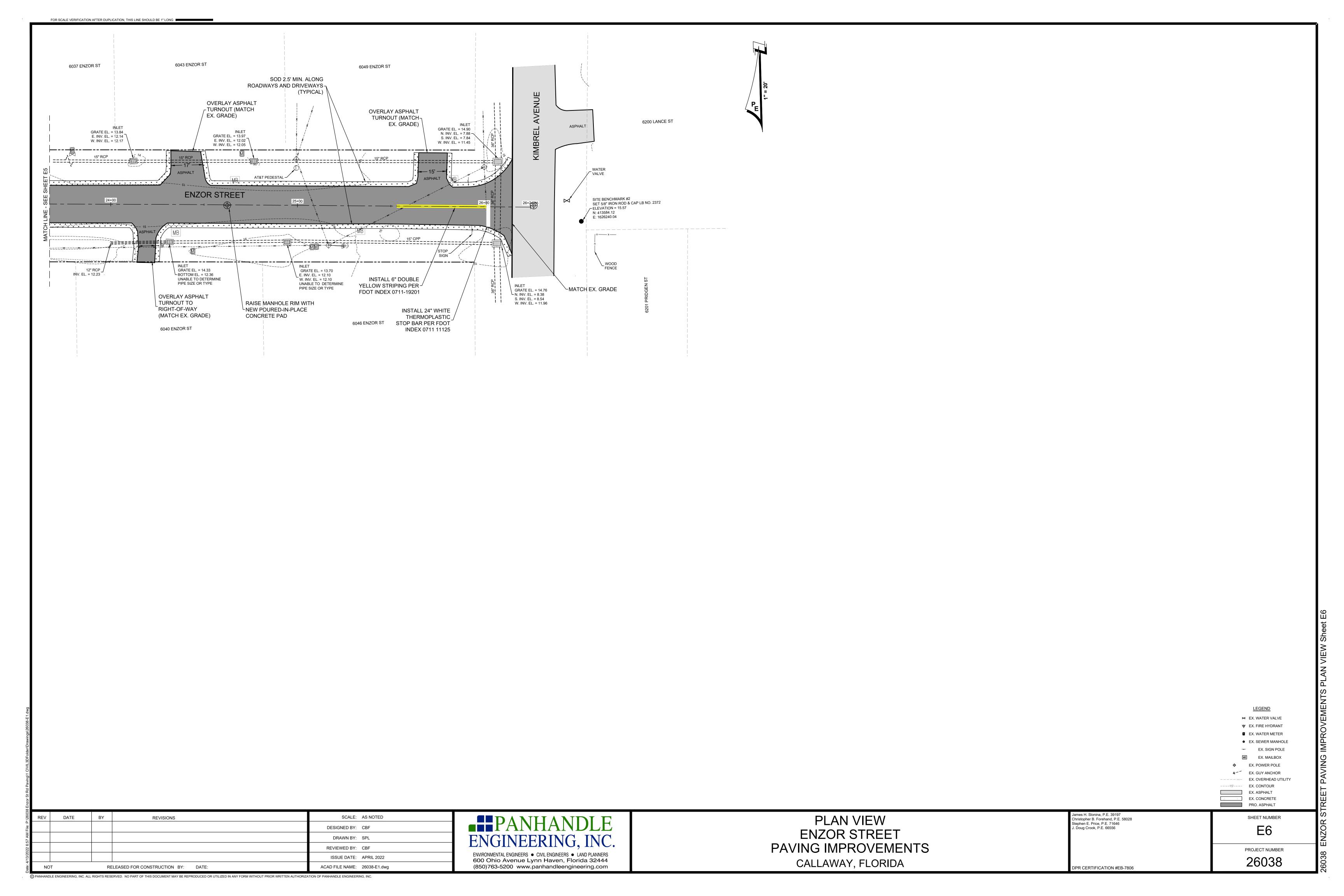
BY

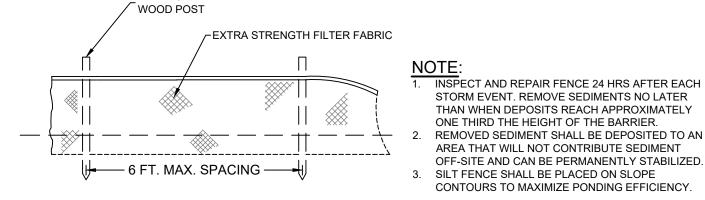
REVISIONS

RELEASED FOR CONSTRUCTION BY: DATE:









3' MIN. —► STEEL OR WOOD POST 36" HIGH MAX. STAKED AND TRENCHED -FILTER FABRIC ATTACH STAKED AND TRENCHED SILT FENCE ~ SECURELY TO UPSTREAM SILT FENCE SIDE OF POST. **→** RUNOFF → RUNOFF **→** RUNOFF 4"X6" TRENCH WITH 4"X6" TRENCH WITH COMPACTED BACKFILL COMPACTED BACKFILL **DOUBLE ROW STAKED SILT FENCE DETAIL** SINGLE ROW STAKED SILT FENCE DETAIL

STANDARD SILT FENCE DETAIL

ENVIRONMENTAL SEQUENCE

WETLAND, AND WETLAND BUFFER AREAS)

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS 8. STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE. FOLLOWS:

INSTALL STABILIZED CONSTRUCTION 9. INSTALL UTILITIES, STORM SEWER, CURBS ENTRANCE. AND GUTTER.

INSTALL SILT FENCES AND HAY BALES, AS 10. APPLY BASE TO PROJECT. REQUIRED.

11. COMPLETE GRADING AND INSTALL 3. CONSTRUCT SEDIMENTATION BASIN. PERMANENT SEEDING/SOD AND PLANTING. . CLEAR AND GRUB FOR DIVERSION

12. COMPLETE FINAL PAVING. SWALES/DIKES AND SEDIMENT BASIN AT 13 REMOVE ACCUMULATED SEDIMENT FROM PERMANENT POND LOCATION.

CONTINUE CLEARING AND GRUBBING. 14. WHEN ALL CONSTRUCTION ACTIVITY IS 6. STOCKPILE TOP SOIL IF REQUIRED. COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS

TIMING OF CONTROLS/MEASURES

AS REQUIRED.

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY

REQUIRED.

- SEE NOTE ----

SOD SIDE SLOPES ~

SLOPE STABILIZATION DETAIL

FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD.

AREAS NOT SODDED TO BE STABILIZED WITH HYDROSEEDING.

1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD. 1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

SLOPE STABILIZATION NOTES

1:3 TO 1:2 - SOD LAPPED AND PINNED.

DEWATERING NOTES:

CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: KEVIN HARGETT, FDEP NW DIST. WASTEWATER SECTION. EMAIL: kevin.hargett@dep.state.us PHONE: 850.595.0687)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

"DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY. GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS. AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT APPLICANT'S HANDBOOK VOLUME I." IN ADDITION, DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (INDUSTRIAL WASTEWATER) AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

PRIOR TO COMMENCEMENT OF CONSTRUCTION DEWATERING ACTIVITIES ANALYTICAL TEST OF UNTREATED GROUNDWATER FOR THE PARAMETERS LISTED IN TABLE 4-1 MUST BE PERFORMED FOR EACH LOCATION.

IF THE ANALYTICAL TESTS ARE WITHIN THE SCREENING VALUES LISTED IN TABLE 4-1 DEWATERING OF THE SITE MAY BEGIN IMMEDIATELY. A SUMMARY REPORT DESCRIBING THE PROPOSED ACTIVITY AND A COPY OF THE TEST REPORT SHOULD BE SENT TO THE LOCAL FDEP OFFICE WITHIN ONE WEEK AFTER DISCHARGE BEGINS.

ADDITIVE SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN ONCE EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDEP, IF REQUESTED

DURING DEWATERING, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO

THE CONTRACTOR SHALL SELECT, IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:

A) A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED

- NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS. THE WELL POINTS SHALL BE INSTALLED IN VARIABLE SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.
- B) VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED

C) VACUUM WELL(S) CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS.

- THE VACUUM WELL(S) SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE
- D) DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE

TABLE 4-1					
GROUNDWATER DISCHARGE - SCREENING VALUES					
PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER				
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L				
PH, STANDARD UNITS	6.0 - 8.5				
TOTAL RECOVERABLE MERCURY	0.012 ug/L				
TOTAL RECOVERABLE CADMIUM	9.3 ug/L				
TOTAL RECOVERABLE COPPER	2.9 ug/L				
TOTAL RECOVERABLE LEAD	0.03 ug/L				
TOTAL RECOVERABLE ZINC	86.0 ug/L				
TOTAL RECOVERABLE CHROMIUM (HEX.)	11.0 ug/L				
BENZENE	1.0 ug/L				
NAPHTHALENE	100.0 ug/L				

mg/L = milligrams per liter

2x2 STAKED AT 3'±~

ANCHOR BALES WITH 2 - 2"x2"x4" STAKES PER BALE DITCH BOTTOM INLET

STRAW BALE BARRIER INSTALLATION DETAIL

STAKED AND ENTRENCHED

EROSION CONTROL NOTES:

DATE

BY

- 1. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- 2. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE
- 3. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO
- 4. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).

REVISIONS

SWALE NOTE: THE SYSTEM OF SWALES SHALL BE CONSTRUCTED BY THE PERMITTEE PRIOR TO RESALE OF INDIVIDUAL LOTS TO THIRD PARTIES.

EROSION CONTROL NOTES: ALL INLETS SHALL HAVE HAY BALES OR SILT FENCE AROUND THEIR PERIMETER. SILT FENCE AND HAY BALES ARE REQUIRED IN ALL AREAS AS DIRECTED BY THE

PROTECTED TREES NOTE:
NO PROTECTED TREES WILL BE IMPACTED UNLESS PERMITTED INDEPENDENTLY.

SCALE: AS NOTED

DESIGNED BY: CBF

DRAWN BY: SPL

ISSUE DATE: APRIL 2022

REVIEWED BY: CBF

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EROSION CONTROL NOTES and DETAILS ENZOR STREET PAVING IMPROVEMENTS CALLAWAY, FLORIDA

EROSION CONTROL BLANKET

UNDER SOD ANCHORED WITH

NOTE: PROVIDE EROSION CONTROL

BLANKET FROM PROPERTY LINE OR

WETLAND LINE WHERE APPLICABLE TO

BACK OF CURB, BUILDING OR TO TOP

6" SOD STAPLES.

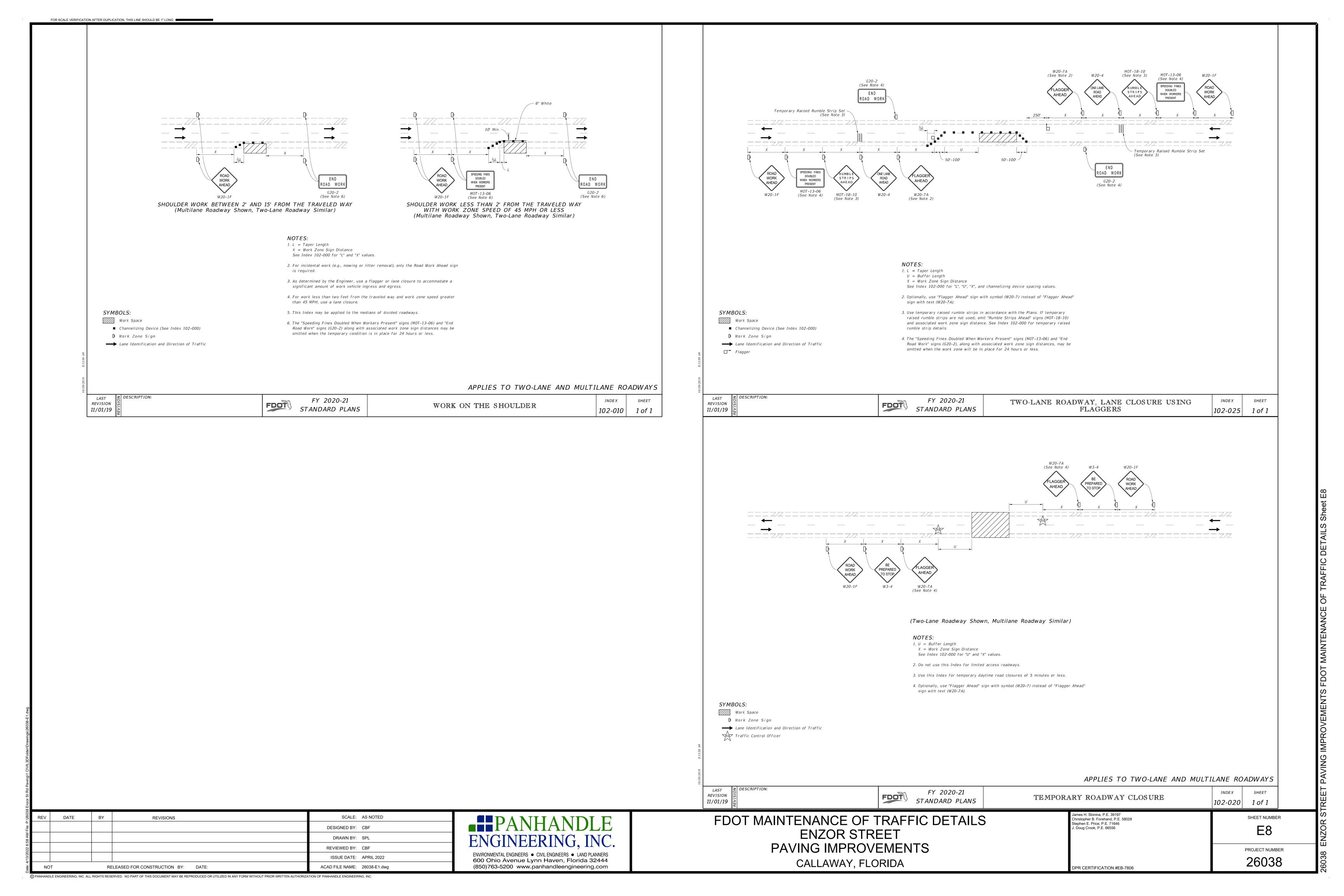
#2010-01 BY EROSION CONTROL SYSTEMS. (1-800-641-3277)

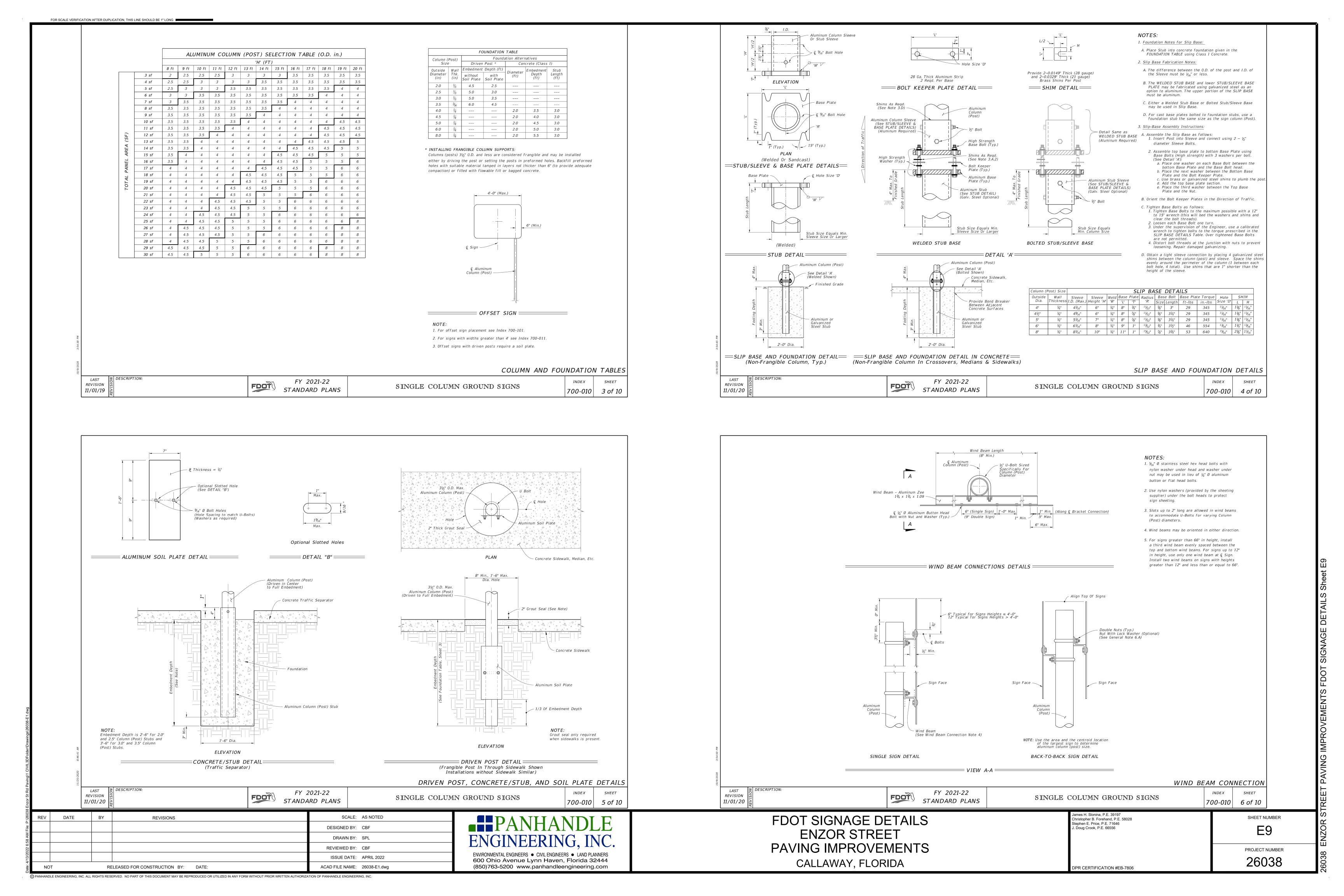
OF BASIN AS REQUIRED.

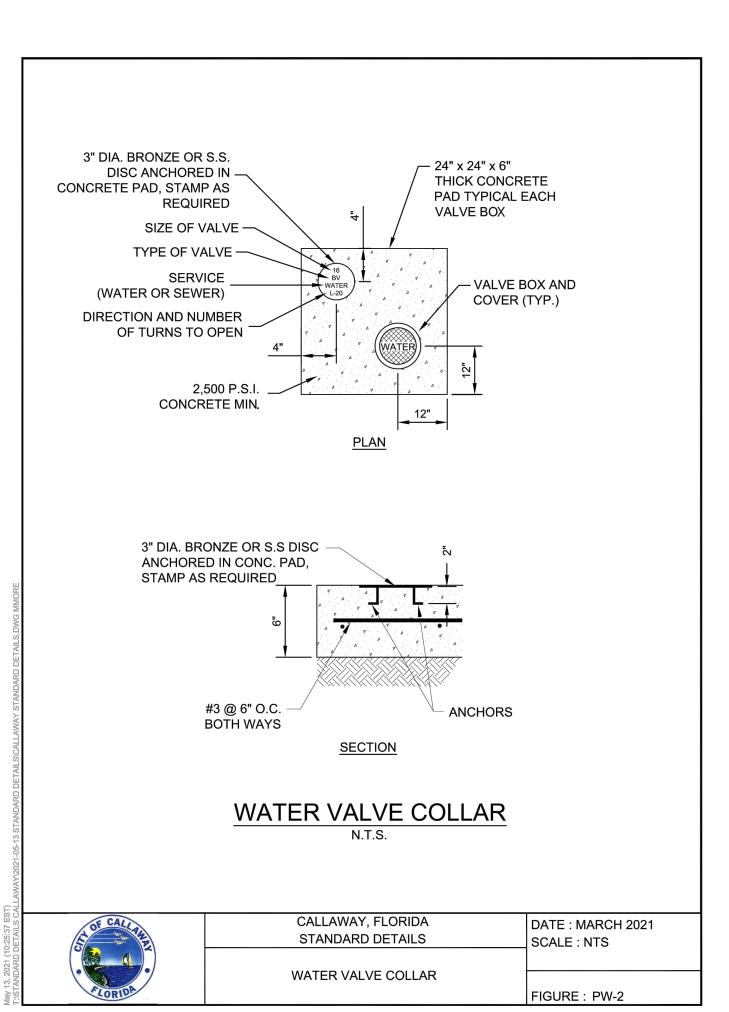
James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028	SHEET NUMBER
Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556	E7
	PROJECT NUMBER
DPR CERTIFICATION #EB-7806	26038

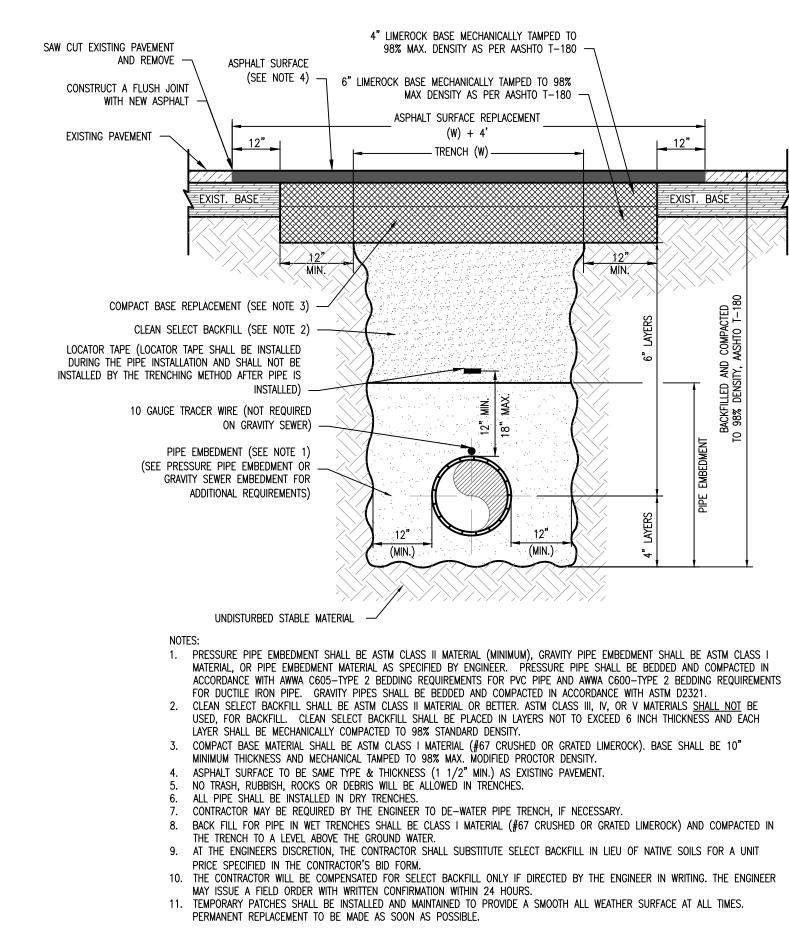
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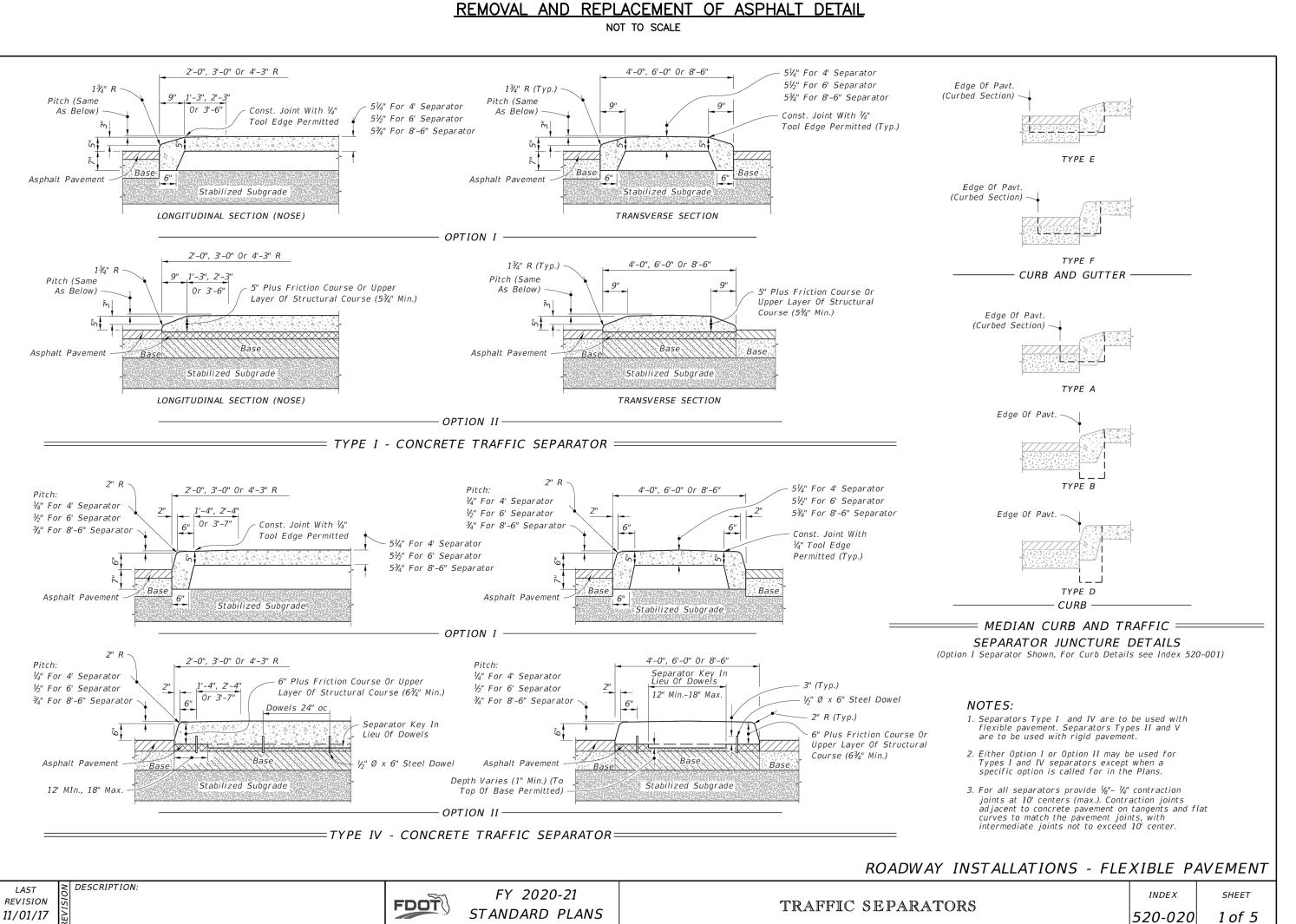
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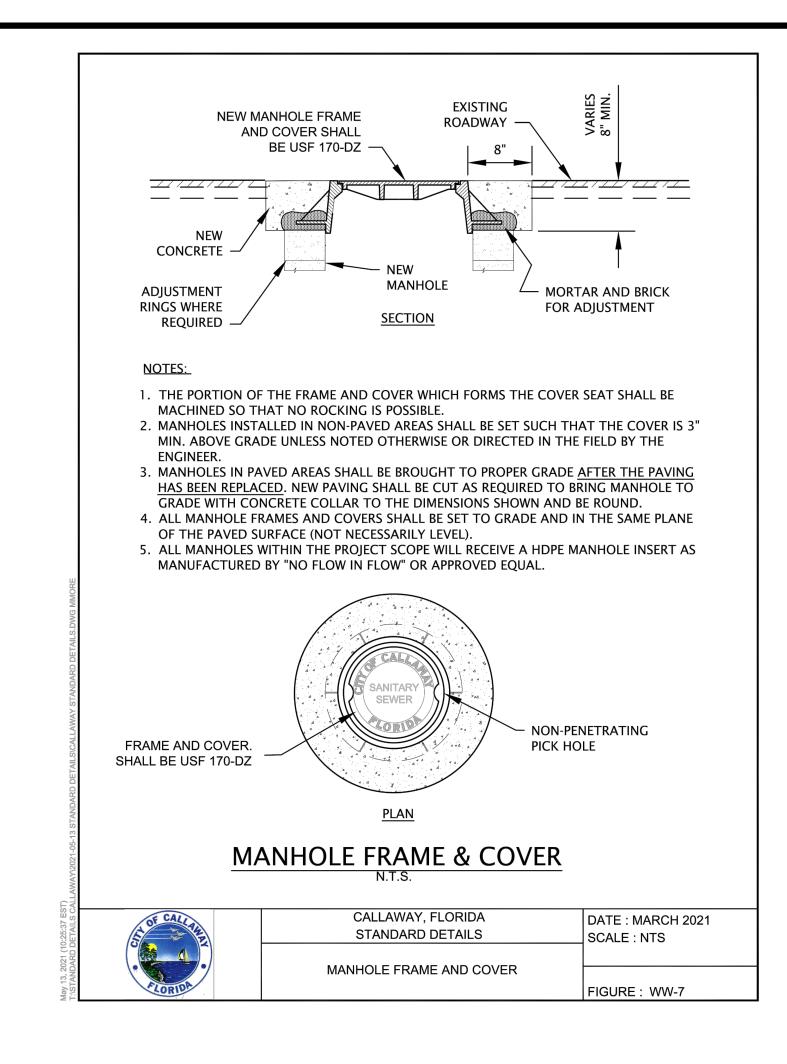


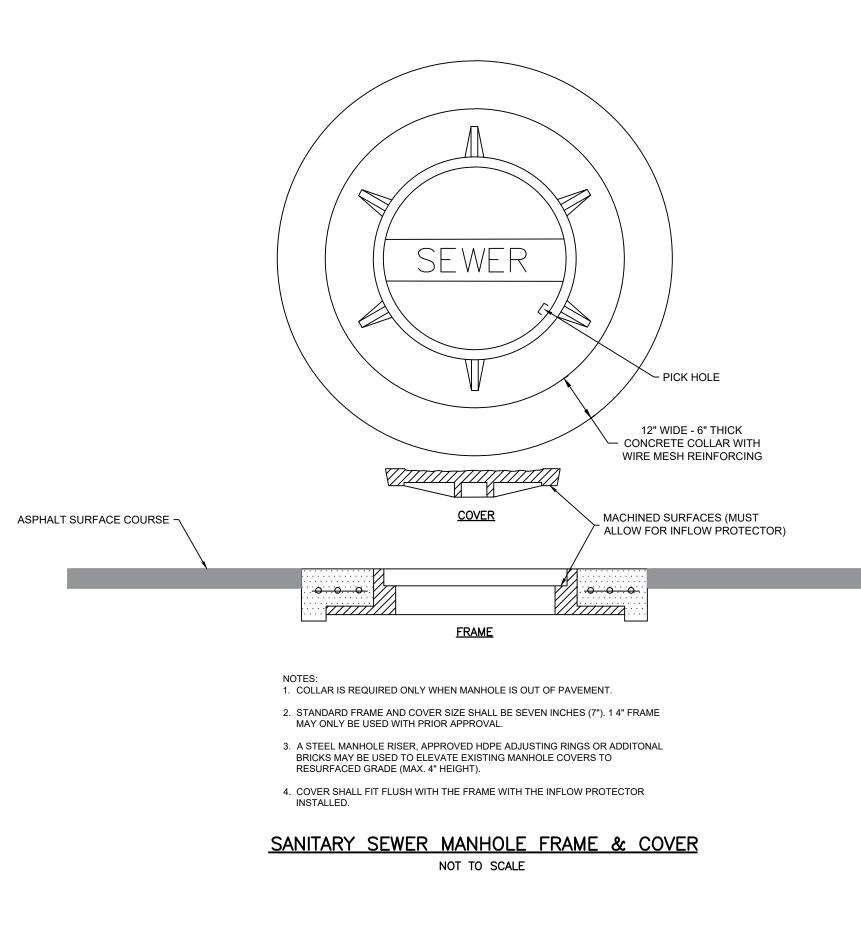


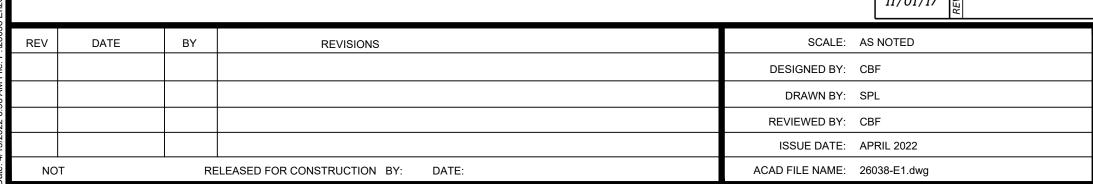












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UTILITY NOTES and TRAFFIC DETAILS
ENZOR STREET
PAVING IMPROVEMENTS
CALLAWAY, FLORIDA

Dames H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
Stephen E. Price, P.E. 71646
J. Doug Crook, P.E. 66556

E10

PROJECT NUMBER

26038

DPR CERTIFICATION #EB-7806

MAINLINE: TYPE SP 12.5 SURFACE COURSE (TRAFFIC LEVEL B) (2") NOTES: ALL ROADS TO RECEIVE FULL DEPTH RECLAMATION UNLESS NOTED OTHERWISE IN PLANS.

> PAVEMENT SIDEWALK AT PAVEMENT 1/2" EXPANSION TYP. SCORE OR SAWCUT _EXPANSION 1/8"x1" DEEP (TYP.) → 3000 PSI CONCRETE W/ 6/6 x 10/10 W.W.F. CONCRETE SIDEWALK DETAIL NOT TO SCALE

SIDEWALK SIDEWALK (REFER TO FDOT INDEX 17346 FOR SPACING OF STRIPES) (DWS)-ADA __/ RAMP SIDEWALK SIDEWALK STANDARD CROSSWALK SPECIAL EMPHASIS CROSSWALK

NOTES:

- 1. SOD 2.5' MINIMUM ALONG ALL ROADWAYS AND DRIVEWAYS AS SHOWN ON PLANS
- 2. ALL DISTURBED AREAS SHALL ALSO BE SODDED
- 3. ALL SOD SHALL BE ZOYSIA UNLESS RESIDENT REQUESTS ST. AUGUSTINE

1.) INSTALL DETECTABLE WARNING STRIPS (DWS), AT ALL PEDESTRIAN CROSSWALKS, ON ROADWAYS, NOT SINGLE FAMILY RESIDENTIAL

- DRIVES. (PER FDOT INDEXS 304) 2.) USE STANDARD CROSSWALK AT STOP LOCATION
- AND SPECIAL EMPHASIS CROSSWALK AT ALL OTHER LOCATIONS (PER FDOT INDEX 17346).
- 3.) (DWS) COLOR TO BE YELLOW EXCEPT PORTIONS ÒF CRA TO BE RED BRICK. 4.) (DWS) TO BE CAST-IN-PLACE REPLACEABLE STYLE AS MANUFACTURED BE ADA SOLUTION, INC.
- (www.adatile.com) UNLESS OTHERWISE APPROVED
- 5.) CROSSWALK MINIMUM WIDTHS: INTERSECTION CROSSWALK

6'. MIDBLOCK CROSSWALK 10'.
6.) ALL STRIPING SHALL BE THERMOPLASTIC

DATE BY SCALE: AS NOTED REVISIONS DESIGNED BY: CBF DRAWN BY: SPL REVIEWED BY: CBF ISSUE DATE: APRIL 2022 RELEASED FOR CONSTRUCTION BY: DATE:

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TYPICAL SECTIONS and DETAILS **ENZOR STREET** PAVING IMPROVEMENTS CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556

OPR CERTIFICATION #EB-7806

_1.5" FDOT SP 12.5 (TRAFFIC LEVEL B) ASPHALTIC CONCRETE SURFACE COURSE

EXISTING ASPHALT (THICKNESS VARIES)

PRIOR TO OVERLAYING EXISTING ASPHALT, CONTRACTOR SHALL CRACK SEAL, FULL DEPTH PATCH AND LEVEL ANY DISTRESSED AREAS WITH A SEVERITY LEVEL IDENTIFIED AS MEDIUM OR HIGH USING THE PAVEMENT CONDITION INDEX METHOD.

ASPHALT OVERLAY DETAIL FOR DRIVEWAYS

LEXISTING SUBGRADE

PRIME/TACK COAT BOTTOM AND SIDES

COMPACTED IN LIFTS NOT TO EXCEED 2 INCHES. 6. REMOVE ALL EXCAVATED MATERIAL FROM SITE.

2. EXCAVATE EXISTING PAVEMENT AND BASE TO DEPTH OF 3" MIN. FROM EXISTING SURFACE, BUT TO BOTTOM OF EXISTING ASPHALTIC CONCRETE BASE. 3. COMPACT BOTTOM OF EXCAVATED AREA AS DIRECTED BY THE ENGINEER. 4. SPRAY PRIME/TACK COAT ON BOTTOM AND SIDES OF EXCAVATED AREA AT THE MINIMUM RATE OF 0.15 GAL/SY. THE AMOUNT APPLIED SHALL BE SUFFICIENT TO COAT THE SURFACE THOROUGHLY AND UNIFORMLY, WITH NO EXCESS. 5. REPLACE EXCAVATED AREA WITH TYPE B-9.5 SUPERPAVE ASPHALT BASE,

> 1.5" FDOT SP 12.5 (TRAFFIC LEVEL B) ASPHALTIC CONCRETE SURFACE COURSE

6" LIMEROCK BASE EXISTING SUBGRADE

NEW PAVEMENT DETAIL FOR DRIVEWAYS NOT CURRENTLY PAVED

NOT TO SCALE

TYPE B-9.5

SAW CUT PAVEMENT.

TACK COAT OVER CRACK

SEAL AND IN BETWEEN

LIFTS OF ASPHALT

PROPOSED RESURFACING

—EXISTING PAVEMENT

EXISTING BASE

PROJECT NUMBER

SHEET NUMBER

26038

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GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
- 2. CONTRACTOR SHALL REVIEW ALL PERMITS PRIOR TO CONSTRUCTION FOR ANY CHANGES TO THE DESIGN INCLUDED THEREIN. NOTIFY ENGINEER/OWNER OF ANY REQUIRED CHANGES PRIOR TO CONSTRUCTION.
- 3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:
 - -FDEP NPDES NOTICE OF INTENT (STORMWATER POLLUTION PREVENTION PLAN)
 - -NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT
 -BAY COUNTY DEVELOPMENT ORDER
- 4. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND GAS PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
- 5. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES.
- 6. PRIOR TO COMMENCEMENT, CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH CONSTRUCTION SCHEDULE FOR VARIOUS SITE WORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO ENSURE TIMELY CERTIFICATION OF COMPLETION TO AGENCIES AND AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCY/COMPLETION.
- 7. CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE AS-BUILT DRAWINGS CERTIFIED BY A FLORIDA LICENSED SURVEYOR SHOWING AS-CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF THE WORK. THE SUBMITTAL COPY OF THE AS-BUILT DRAWINGS WILL NOT BE RETURNED. THE RECORD DRAWING OR A REPRODUCIBLE COPY PREPARED BY ENGINEER SHALL BE CERTIFIED BY THE CONTRACTOR AS CORRECT. ALL INFORMATION WHICH IS UNCHANGED AND CURRENT SHALL BE NOTED BY CHECKING OFF OR CLOUDING. ALL REVISED INFORMATION SHALL BE CROSSED THROUGH AND NEW DATA ADDED. ADDITIONAL REQUIREMENTS ARE NOTED IN PAVING, GRADING AND DRAINAGE, AND WATER AND SEWER NOTES.
- 8. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 9. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREIN, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING PRIOR TO CONSTRUCTION IN THE AREA IMPACTED BY THE CONFLICT. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE
- 10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND THE FIELD CONDITIONS PRIOR TO CONSTRUCTION IN THE AREA IMPACTED BY THE CONFLICT.
- 11. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE INSPECTION PERSONNEL OTHER THAN OWNER'S SHALL BE REPORTED TO ENGINEER/OWNER PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY ENGINEER/OWNER.
- 12. CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION
- RELATED CAUSES.

 13. ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE COUNTY, OWNER, INVOLVED UTILITY COMPANIES. ENGINEER AND REGULATORY AGENCIES.
- 14. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE INFORMATION PROVIDED IN THESE DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETE STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL PRIOR TO THE INSTALLATION OF ANY IMPROVEMENT.
- 15. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES.
- 16. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.

 17. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER AND AGENCY APPROVAL PRIOR TO PROCUREMENTS OF MATERIALS.
- 18. CONTRACTOR TO SUBMIT COPIES OF ALL TESTING REPORTS TO THE OWNER AND ENGINEER FOR ACCEPTANCE AND CERTIFICATIONS.19. CONTRACTOR TO REFERENCE CONSTRUCTION AND MATERIALS TECHNICAL SPECIFICATIONS CONTAINED WITHIN THE PROJECT MANUAL
- DISTRIBUTED BY THE OWNER.

 20. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPER TRAFFIC MAINTENANCE AND CONTROLS IN ACCORDANCE WITH REGULATORY STANDARDS. WHERE A TRAFFIC MAINTENANCE PLAN IS REQUIRED, IT SHALL BE PREPARED AND SUBMITTED BY THE
- CONTRACTOR FOR APPROVAL BY OWNER, ENGINEER AND COUNTY.

 21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION, TO PREVENT TRESPASSING OF UNAUTHORIZED PEDESTRIANS AND/OR VEHICLES IN ALL WORK AREAS. THE CONTRACTOR SHALL POST SIGNS, CONSTRUCT BARRIERS OR IMPLEMENT OTHER METHODS NECESSARY TO CONTROL ACCESS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR TRESPASSING ON THE CONSTRUCTION SITE OR DAMAGES TO ANY WORK RELATED THERETO.
- 22. DENSITIES IN ALL UTILITY AND STORM TRENCHES SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY. CONTRACTOR SHALL PROVIDE TESTING RESULTS UPON REQUEST.
- 23. ALL SANITARY SEWER AND STORM SEWER PIPING SHALL BE VIDEO INSPECTED BEFORE PAVING AND AGAIN PRIOR TO THE END OF THE ONE-YEAR WARRANTY PERIOD. ALL SANITARY SEWER AND STORM SEWER WITH LESS THAN FIVE FEET OF COVER SHALL BE VIDEO
- INSPECTED AFTER PAVEMENT BASE INSTALLATION.

 24. AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH BAY COUNTY REQUIREMENTS AVAILABLE ONLINE.
- 25. SHOULD THERE BE ANY CONFLICT BETWEEN THE NOTES ON THIS SHEET AND THE BAY COUNTY STANDARD SPECIFICATIONS OR DETAILS THEN THE COUNTY INFORMATION SHALL OVERRIDE.

GRADING AND DRAINAGE NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL THE WORK IN THIS SET OF DRAWINGS.
- 2. ALL INDICATED ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 3. EXISTING ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PRODUCED BY DRAGON LAND SURVEYING, INC. DATED 9/9/19. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT THE TIME OF CONSTRUCTION.
- 4. SITE GRADING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
- 6. DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL RESPONSIBLE MEASURES TO INSURE AGAINST POLLUTING, SILTING, OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING ONSITE AND OFFSITE DRAINAGE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES, METHODS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, OR SILT SCREENS. ANY MEASURES SHOWN OR DETAILED IN THESE DRAWINGS SHALL BE CONSIDERED MINIMUMS AND SHALL NOT ALLEVIATE CONTRACTOR FROM THE RESPONSIBILITY TO IMPLEMENT ANY MEASURES NECESSARY TO PROVIDE PROTECTION
- 7. CONTRACTOR IS ADVISED THAT THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE WHETHER SAID PERMIT IS REQUIRED AND TO OBTAIN SAME. A COPY SHALL BE SENT TO THE ENGINEER AND OWNER.
- 8. GEOTECHNICAL SERVICES HAVE BEEN PROVIDED AS REFERENCED BELOW. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER HAS RELIED ON THE BELOW REFERENCED GEOTECHNICAL REPORT IN PREPARATION OF THESE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO COMPLETENESS OR ACCURACY OF GEOTECHNICAL INFORMATION.

 GEOTECHNICAL ENGINEER: MAGNUM ENGINEERING, INC.
 PROJECT NO.: M119-107-181
- DATE: JULY 29, 2019
 9. ELEVATIONS OF GRASSED AREAS ARE GIVEN AT FINISHED GRADE (TOP OF SOD OR SEEDED SURFACE).
- 10. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR
- MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.

 11. ALL OFF-SITE DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION, OR BETTER.
- 12. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING OF ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL.
- 13. CONTRACTOR SHALL ENSURE THAT SIDEWALK SLOPES DO NOT EXCEED MAXIMUMS SET FORTH BY THE ADA (2.0% MAXIMUM CROSS SLOPE AND 5.0% MAXIMUM LONGITUDINAL SLOPE).
- 14. CONTRACTOR SHALL CLEAN/FLUSH THE ENTIRE STORM PIPING SYSTEM AND VIDEO INSPECT. CONTRACTOR SHALL PROVIDE VIDEO INSPECTION FOOTAGE TO ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE PRIOR TO THE START OF PAVING.

GRADING AND DRAINAGE MATERIAL SPECIFICATIONS:

- 1. STORM PIPE SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED. JOINTS SHALL BE BELL AND SPIGOT WITH COMPRESSION GASKETS CONFORMING TO ASTM C443-85 AND WRAPPED PER FDOT INDEX 280.
- 2. ALL STORM STRUCTURES SHALL CONFORM WITH FDOT STANDARD INDEX DRAWINGS AND SPECIFICATIONS (LATEST EDITION) EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS OTHERWISE SPECIFIED OR APPROVED.
- 3. ALL CONCRETE WORK SHALL BE 3,000 PSI MINIMUM, UNLESS OTHERWISE SPECIFIED.

HORIZONTAL GEOMETRY NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
- 2. ALL SIGNAGE, PAVEMENT MARKING, AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

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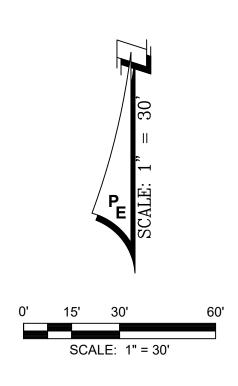
GENERAL NOTES
ENZOR STREET
PAVING IMPROVEMENTS
CALLAWAY, FLORIDA

ames H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 . Doug Crook, P.E. 66556

SHEET NUMBER
E12

PROJECT NUMBER

OPR CERTIFICATION #EB-7806



WARNING: GAS MAIN IN AREA OF CONSTRUCTION

ELEVATIONS SHOWN HEREON ARE BASED ON RTK 6PS OBSERVATIONS UTILIZING L-NET GLOBAL NAVIGATION SATELLITE SYSTEM REFERENCED TO NAVD 88 ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE BASED ON THE NOTED ELEVATION REFERENCE. USE OF THE BENCHMARKS FOR VERTICAL CONTROL SHOULD BE PERFORMED IN ACCORDANCE WITH STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS OUTLINED IN RULE 51-17, FLORIDA ADMINISTRATIVE CODE. PRIOR TO UTILIZING THE BENCHMARKS FOR VERTICAL CONTROL, USER SHALL CHECK PROVIDED BENCHMARKS TO ENSURE THAT THEY HAVE NOT BEEN DISTURBED AND THAT THEY ARE RELATIVE TO EACH OTHER.

COORDINATES SHOWN HEREON ARE BASED ON RTK GPS OBSERVATIONS UTILIZING L-NET GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) NETWORK REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD 83), 2007 ADJUSTMENT

APPARENT UTILITIES, UNDERGROUND UTILITIES AND BURIED PIPES SHOWN HEREON HAVE BEEN LOCATED AND ARE INDICATED IN THEIR RELATIVE POSITIONS. HOWEVER, THERE MAY EXIST UNDERGROUND UTILITIES AND BURIED PIPES WHICH WERE NOT LOCATED OR OF WHICH WE HAVE NO KNOWLEDGE.

EXISTING TELEPHONE PEDESTAL EXISTING STORM INLET EXISTING WATER METER

EXISTING FIRE HYDRANT

x 36.00 EXISTING SPOT GRADE _ / -35 \ EXISTING CONTOURS EXISTING CONCRETE

EXISTING GRAVEL EXISTING ASPHALT

LIMITS OF DEMOLITION

SURVEY PROVIDED BY: BUCHANAN & HARPER, INC. 735 WEST 11TH STREET PANAMA CITY, FL 32401

PHONE: (850) 763-7427

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EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN Christopher B. Forehand, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556

CALLAWAY, FLORIDA

DPR CERTIFICATION #EB-7806

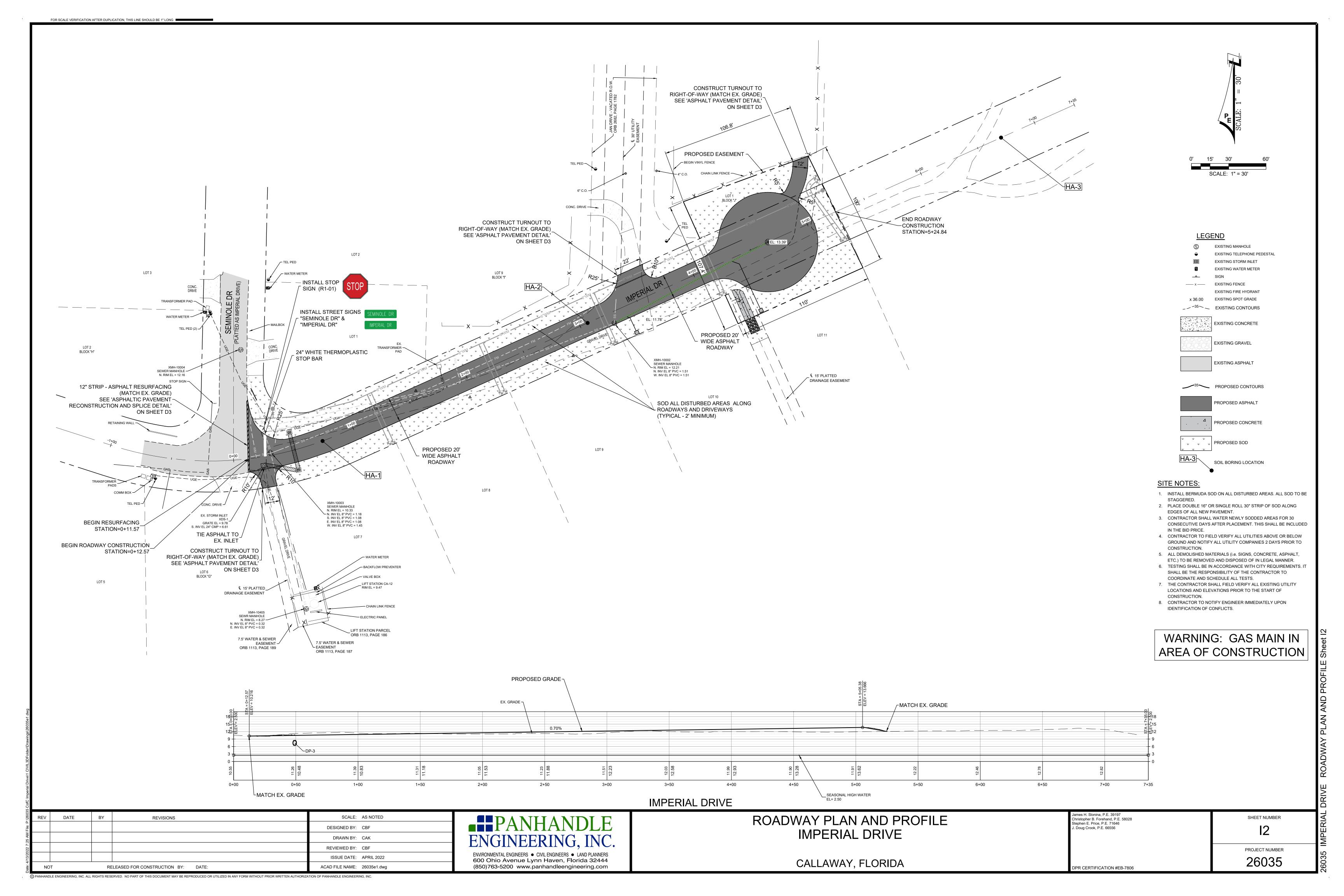
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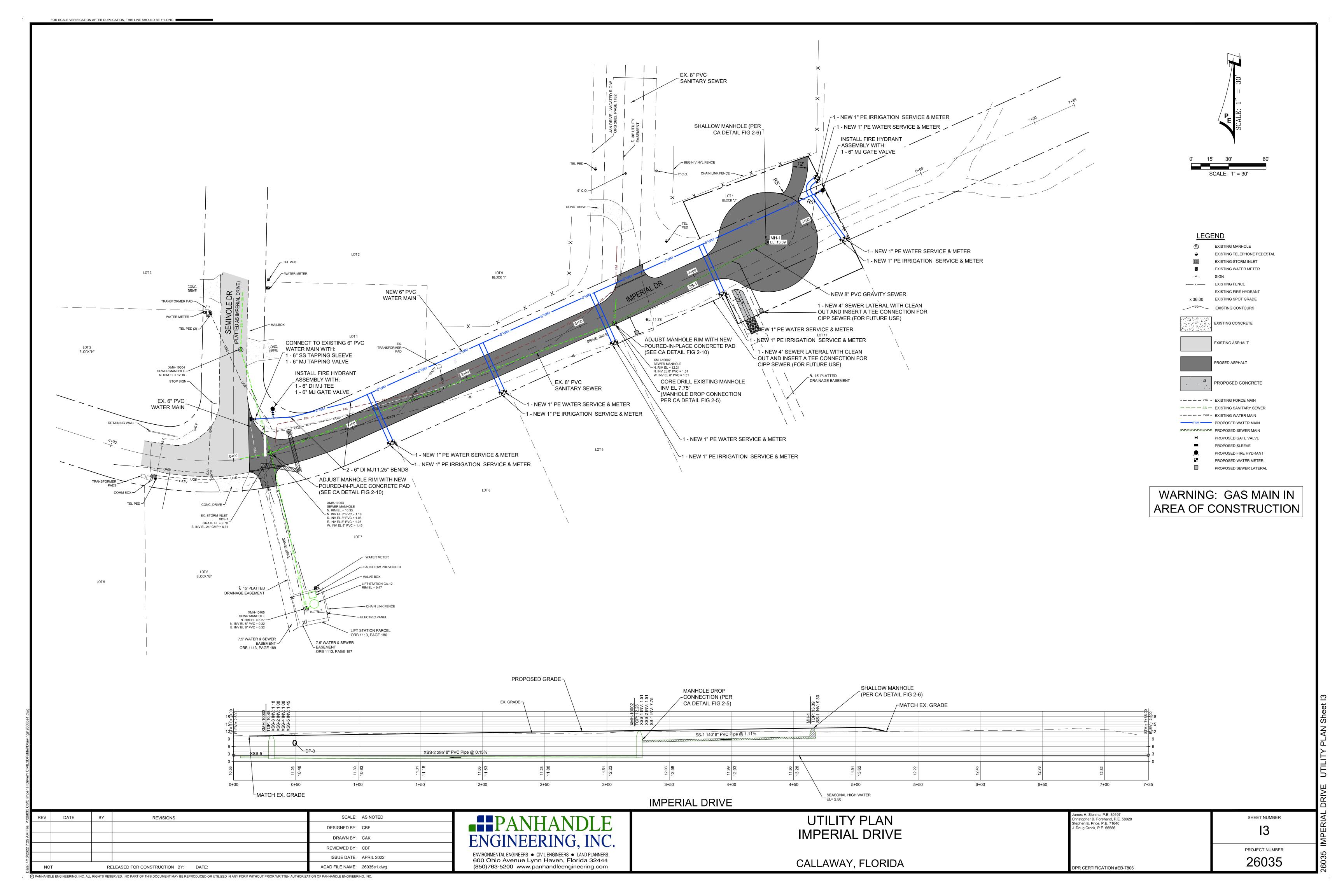
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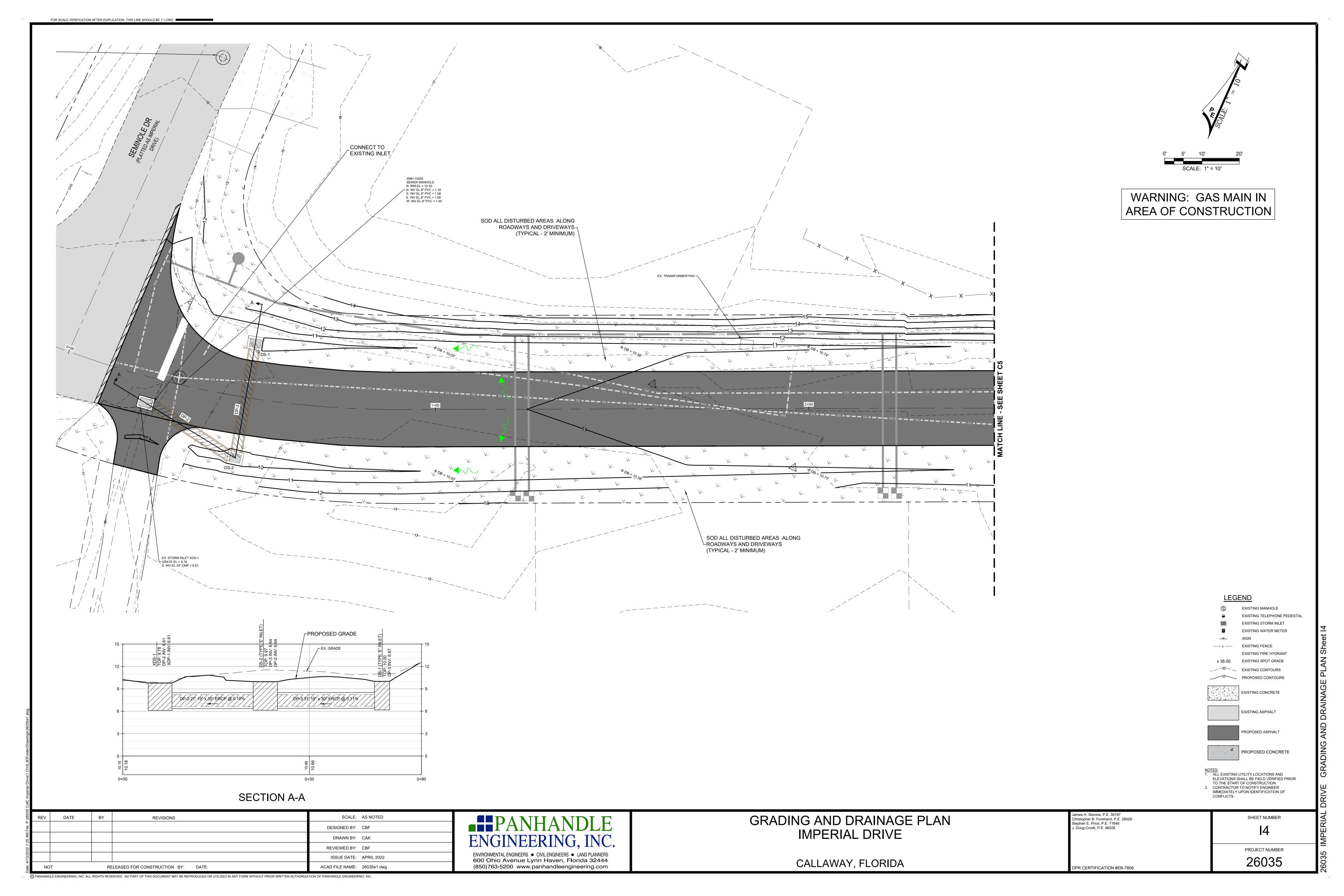
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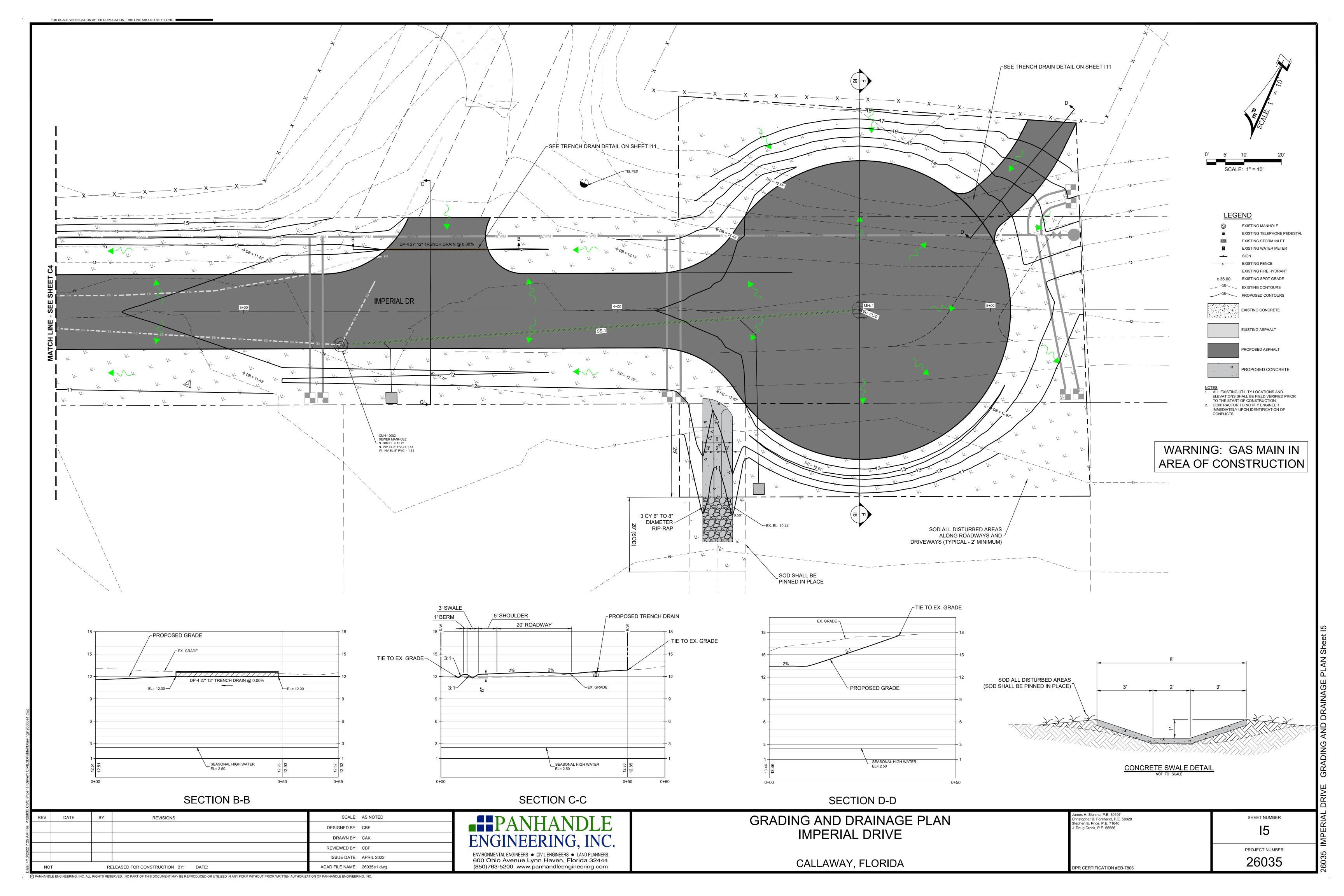
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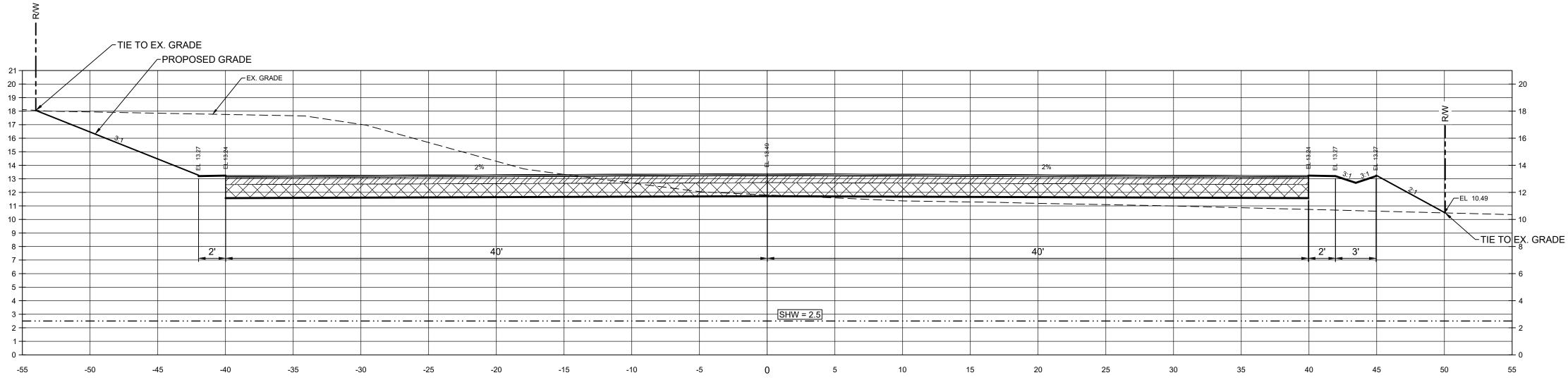


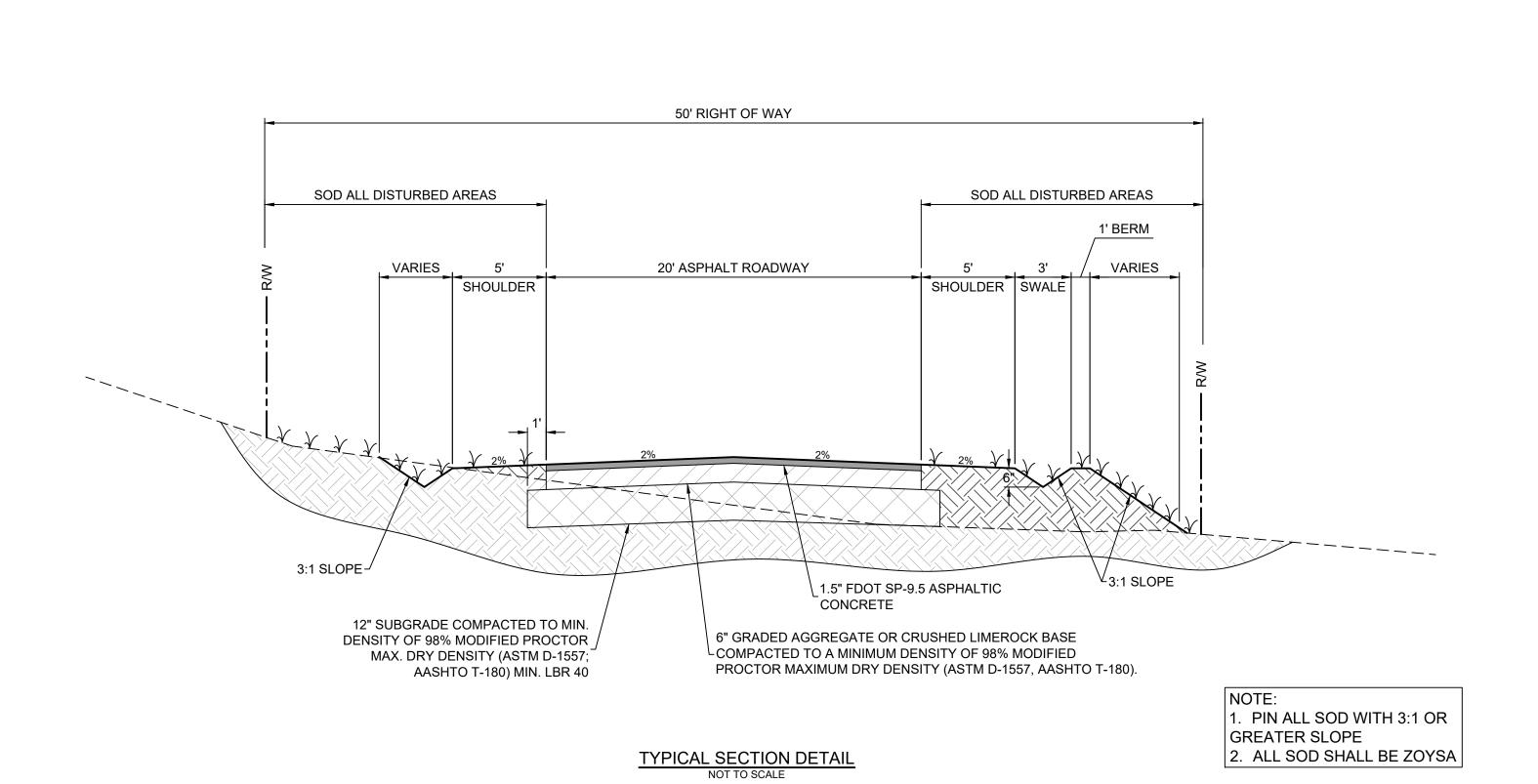












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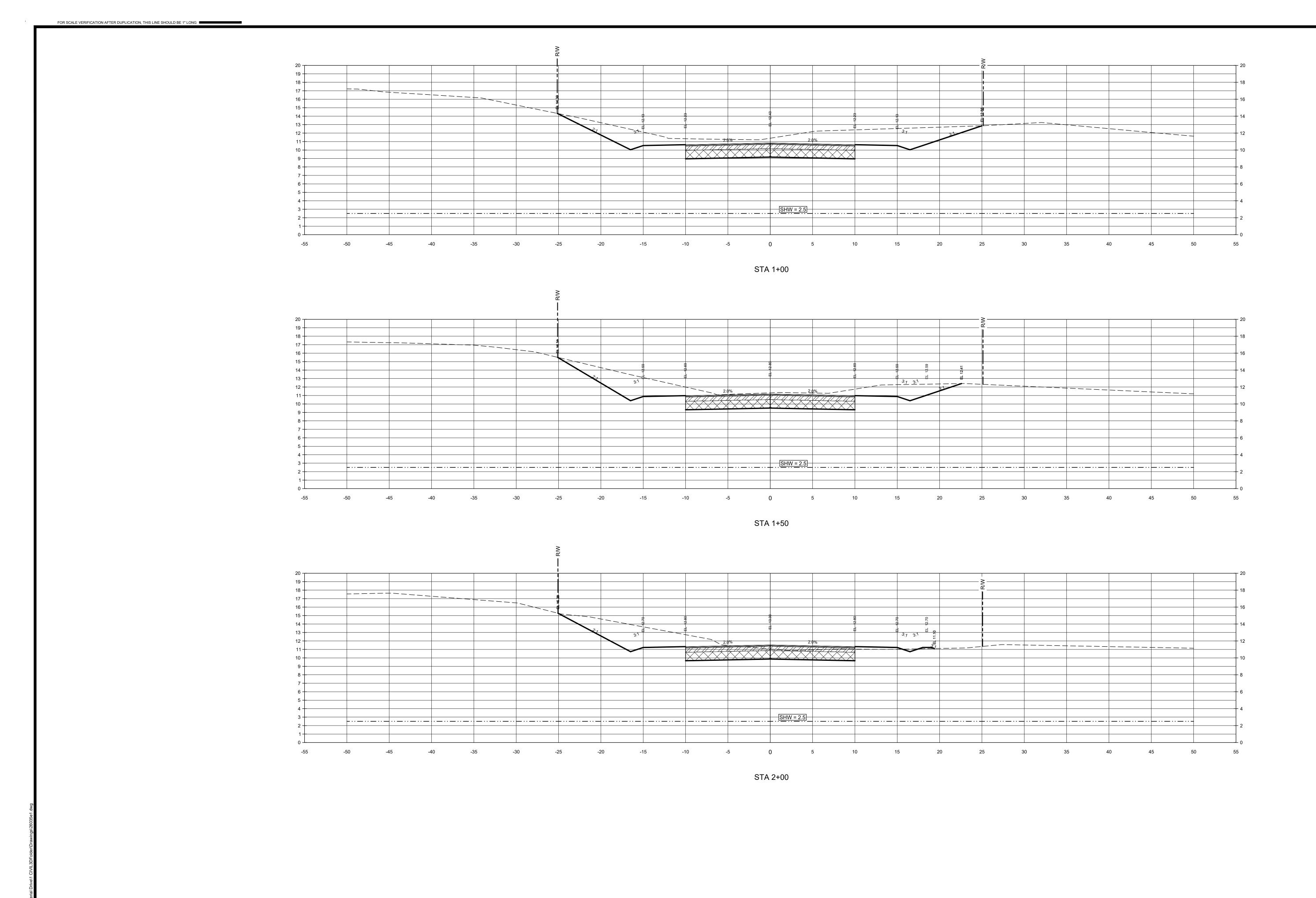
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CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556 DPR CERTIFICATION #EB-7806

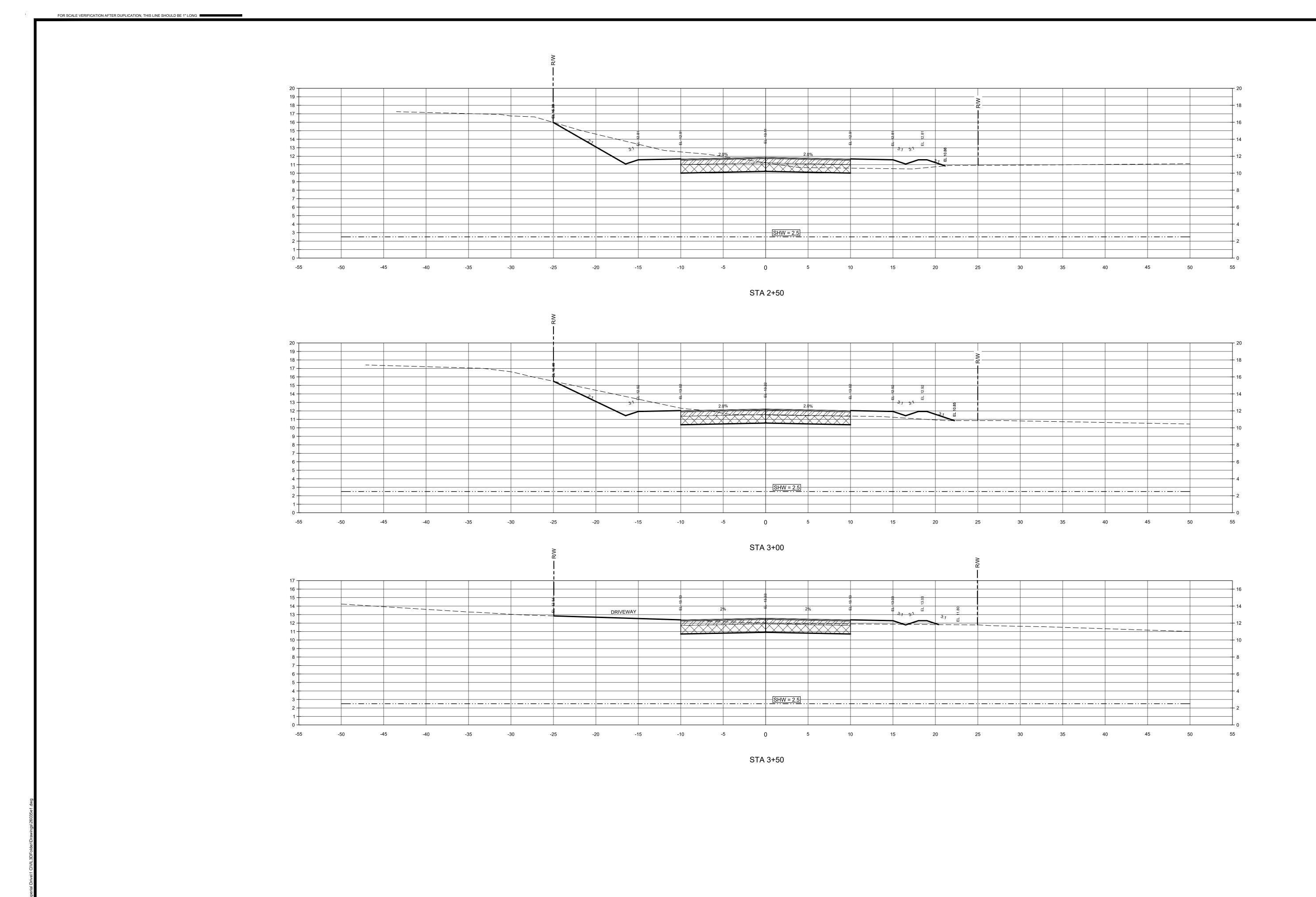
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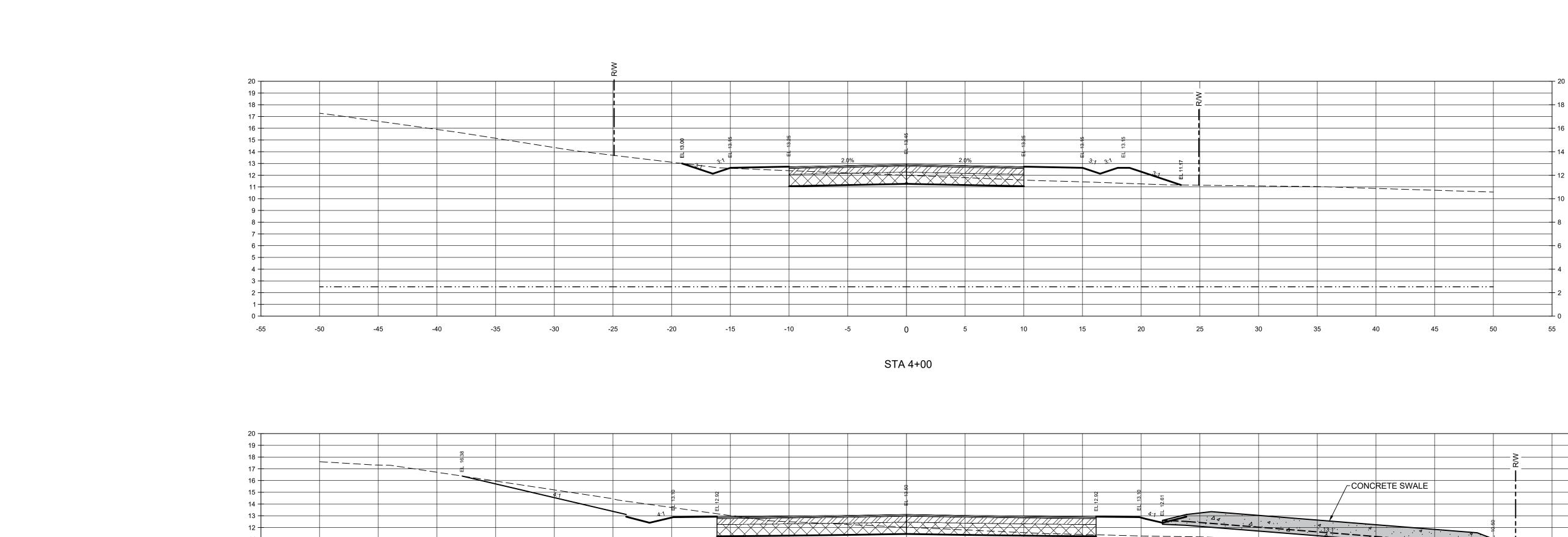
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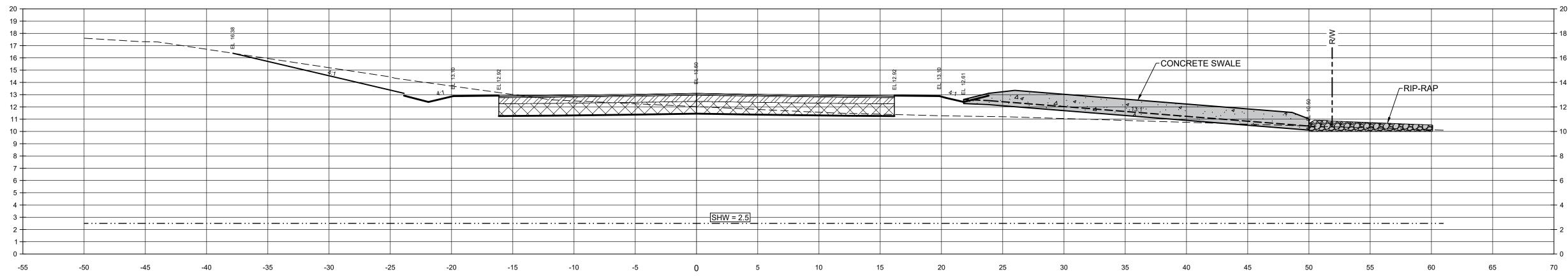
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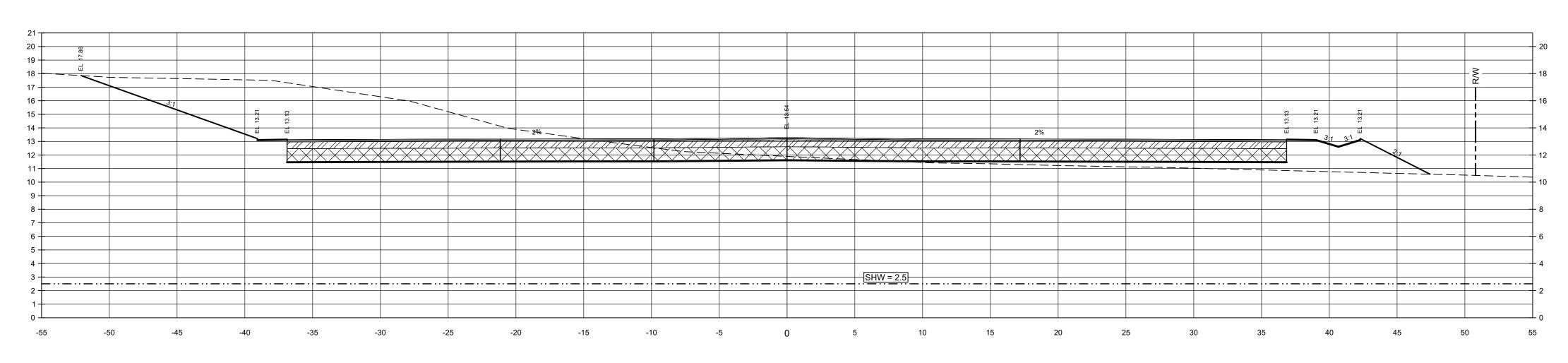


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RIAL DRIVE CROSS SECT

- 1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINAL STABILIZATION.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-12, AND/OR 17/25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121-403.161 FLORIDA
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
- TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, SILT FENCES, AND TURBIDITY BARRIERS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH FDOT SPECIFICATIONS. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.
- PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTIONS 12 AND 13. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED THEN PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 570 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
- SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES GREATER THAN OR EQUAL TO 2:1, SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 4:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
- TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- 9. THE CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- 10. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
- 11. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
- 14. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).
- 16. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- 17. ALL INLETS SHALL HAVE SEDIMENT BARRIERS INSTALLED DURING CONSTRUCTION.
- 18. SILT FENCE IS REQUIRED IN ALL AREAS AS DIRECTED BY THE ENGINEER.

- THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES. UNTIL THE PROJECT IS COMPLETED AND ACCEPTED. TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN MAINTENANCE SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.
- 2. SILT FENCES AND TURBIDITY BARRIERS SHALL BE CHECKED DAILY FOR EFFECTIVENESS, BREACHES, AND ROUTINE MAINTENANCE.

DEWATERING NOTES

IF DEWATERING IS NECESSARY, THE CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: DOUG WARNET, FDEP NW DIST. WASTEWATER SECTION. EMAIL: douglas.warnat@dep.state.fl.us PHONE: 850.595.0583)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

"DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS, AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT APPLICANT'S HANDBOOK VOLUME I." IN ADDITION, DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (INDUSTRIAL WASTEWATER) AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

ADDITIVE SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN ONCE EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDEP, IF REQUESTED.

DURING DEWATERING, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO DISCHARGE.

THE CONTRACTOR SHALL SELECT, IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:

- A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS. THE WELL POINTS SHALL BE INSTALLED IN VARIABLE SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.
- VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED FROM THE PUMP.
- VACUUM WELL(S) CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS. THE VACUUM WELL(S) SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE PUMPS.
- DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE CONTROL STRUCTURE

ENVIRONMENTAL SEQUENCE

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS

2. INSTALL SILT FENCES AS REQUIRED.

SWALES/DIKES AND SEDIMENT BASIN

9. INSTALL UTILITIES, STORM SEWER,

INSTALL STABILIZED CONSTRUCTION

10. APPLY BASE TO PROJECT. 11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND

3. CONSTRUCT SEDIMENTATION BASIN. 4. CLEAR AND GRUB FOR DIVERSION

12. COMPLETE FINAL PAVING.

AT PERMANENT POND LOCATION. 5. CONTINUE CLEARING AND GRUBBING. 13 REMOVE ACCUMULATED SEDIMENT FROM 14. WHEN ALL CONSTRUCTION ACTIVITY IS

6. STOCKPILE TOP SOIL IF REQUIRED. PERFORM PRELIMINARY GRADING ONSITE, AS REQUIRED.

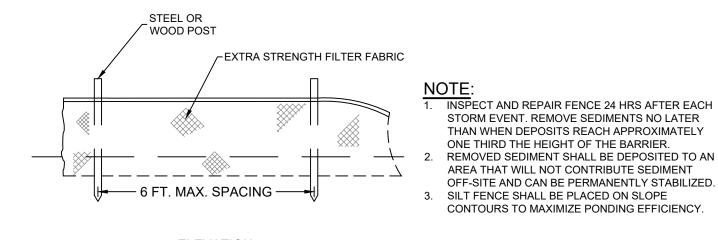
STABILIZED. REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED.

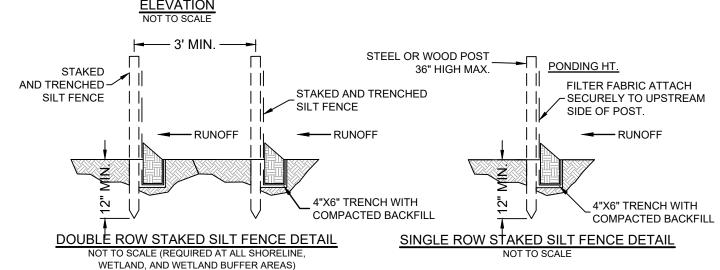
8. STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

	TABLE 4-1 GROUNDWATER DISCHARGE - SCREENING VALUES					
PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER					
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L					
PH, STANDARD UNITS	6.0 - 8.5					
TOTAL RECOVERABLE MERCURY	0.012 ug/L					
TOTAL RECOVERABLE CADMIUM	9.3 ug/L					
TOTAL RECOVERABLE COPPER	2.9 ug/L					
TOTAL RECOVERABLE LEAD	0.03 ug/L					
TOTAL RECOVERABLE ZINC	86.0 ug/L					
TOTAL RECOVERABLE CHROMIUM (HEX.)	11.0 ug/L					
BENZENE	1.0 ug/L					
NAPHTHALENE	100.0 ug/L					





EROSION CONTROL BLANKET #2010-01 BY EROSION CONTROL SYSTEMS. (1-800-641-3277) UNDER SOD ANCHORED WITH 6" SOD STAPLES. NOTE: PROVIDE EROSION CONTROL BLANKET FROM PROPERTY LINE OR WETLAND LINE WHERE APPLICABLE TO BACK OF CURB, BUILDING OR TO TOP OF BASIN AS REQUIRED.	SEE NOTE SOD SIDE SLOPES 1 MAX
SLOPE STA	BILIZATION DETAIL OT TO SCALE
SLOPE STABILIZATION NOT	<u>res</u>
FLAT TO 1:3 - SEED AND MI	JLCH, HYDRO-SEED OR SOD.

1:3 TO 1:2 - SOD LAPPED AND PINNED.

1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD. 1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

AREAS NOT SODDED TO BE STABILIZED WITH HYDROSEEDING. SEE SLOPE STABILIZATION DETAIL THIS SHEET

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				ISSUE DATE:	APRIL 2022	
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EROSION CONTROL DETAILS IMPERIAL DRIVE

Doug Crook, P.E. 66556 CALLAWAY, FLORIDA PR CERTIFICATION #FB-7806

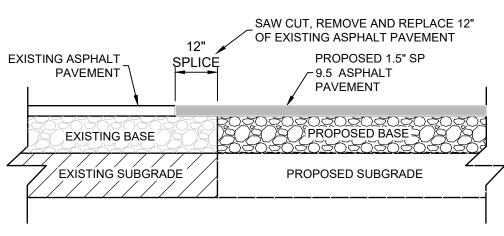
SHEET NUMBER hristopher B. Forehand, P.E. 58028 stephen E. Price, P.E. 71646 PROJECT NUMBER 26035

PAVEMENT NOTES:

- 1. CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER AND 1
- FT. MIN. BEYOND THE EDGE OF PAVEMENT.

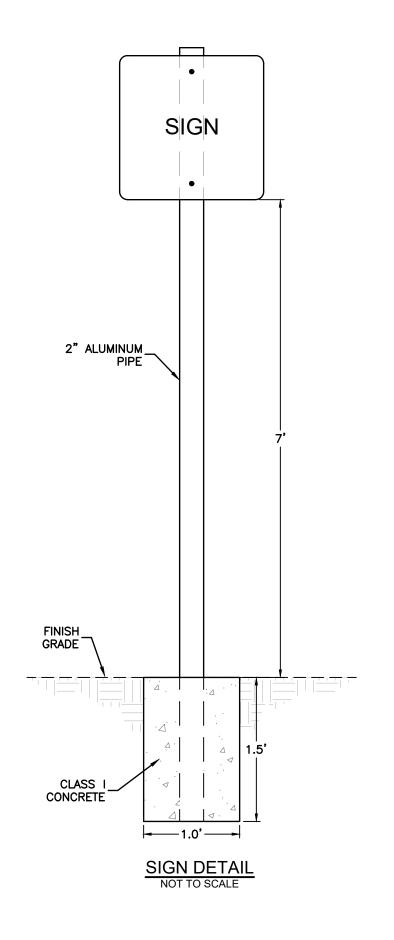
 2. FILL MATERIAL SHALL BE CLEAN SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THE 12% FINER THAN THE U.S. No. 200 MESH SIEVE
- AND FREE OF ORGANICS OR CLAY. 3. FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (AASHTO T-180)

ASPHALT PAVEMENT DETAIL NOT TO SCALE



1. PROVIDE ASPHALT SPLICE AT ALL TRANSITIONS BETWEEN NEW AND EXISTING PAVEMENT SECTIONS. 2. RESTORE EXISTING BASE TO ORIGINAL CONDITION OR BETTER.

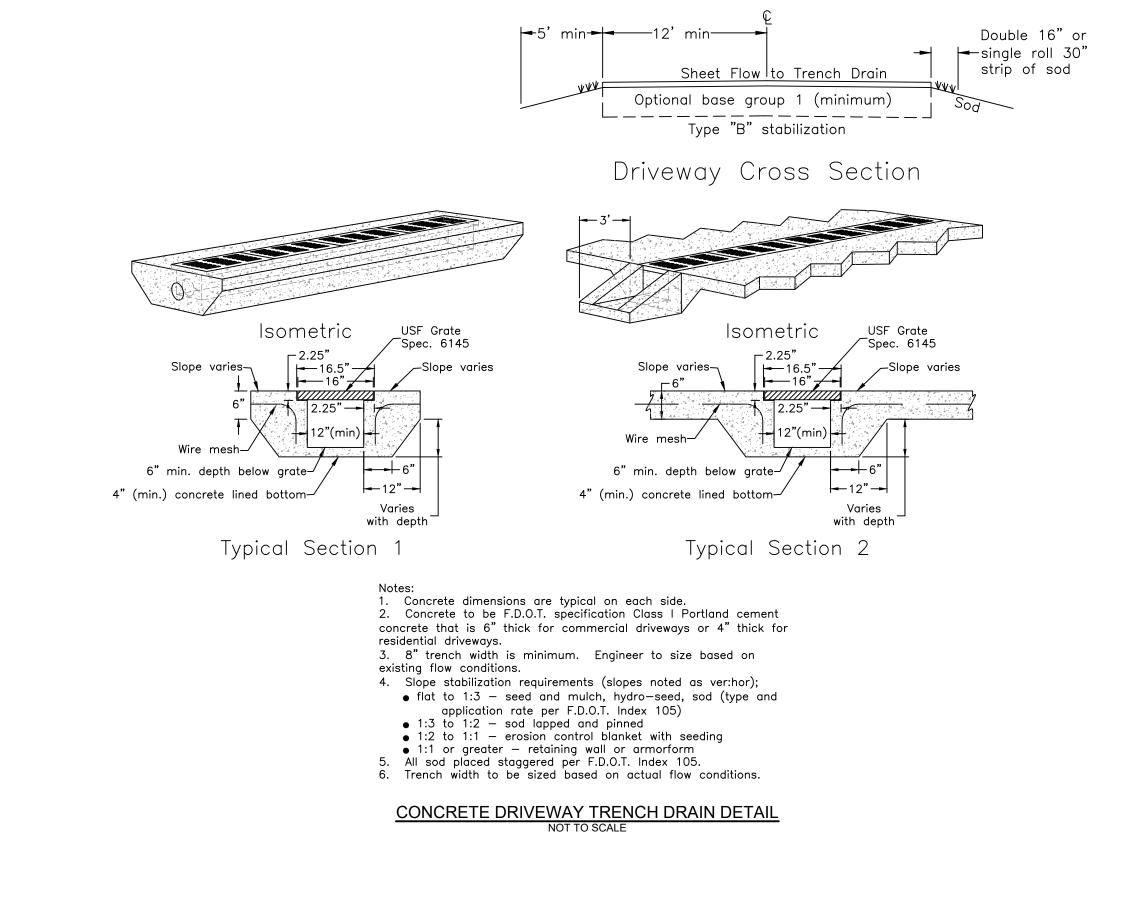
ASPHALTIC PAVEMENT RECONSTRUCTION AND SPLICE DETAIL NOT TO SCALE



REVISIONS

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BY



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CONSTRUCTION DETAILS IMPERIAL DRIVE

CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556 SHEET NUMBER PROJECT NUMBER 26035 OPR CERTIFICATION #EB-7806

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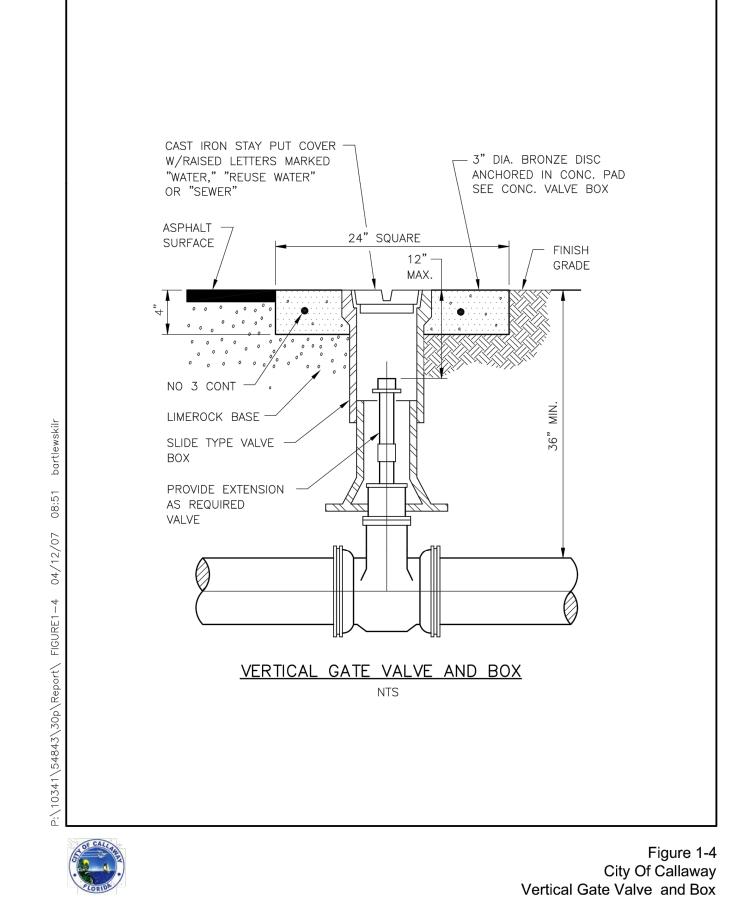
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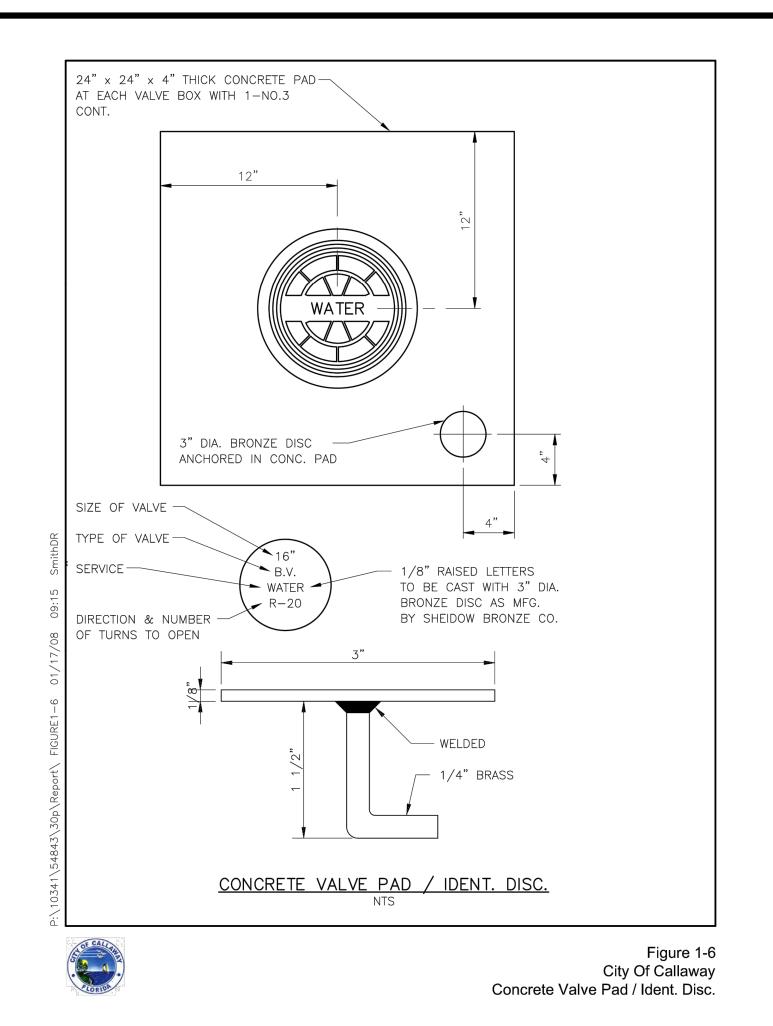
ISSUE DATE: APRIL 2022

DESIGNED BY: CBF

DRAWN BY: CAK REVIEWED BY: CBF

RELEASED FOR CONSTRUCTION BY: DATE: ACAD FILE NAME: 26035e1.dwg





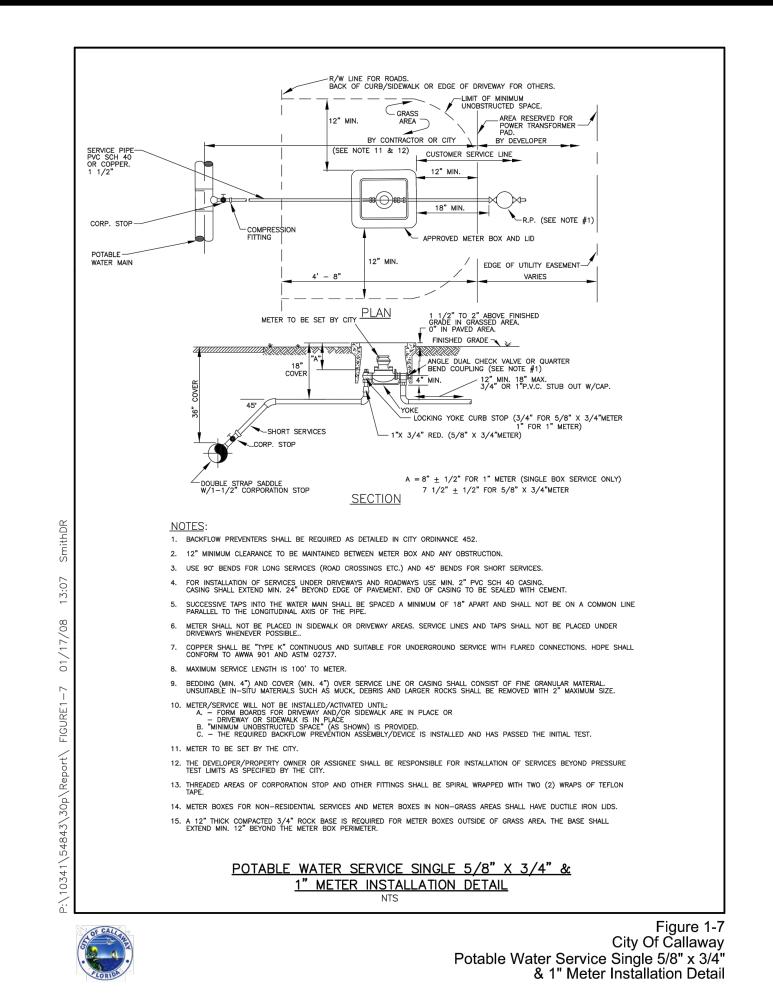


Figure 1-1 City of Callaway Fire Hydrant Installation

APPROVED INFLOW PROTECTOR

EPOXY LINED DIP REQUIRED

NOTE: ALL STANDARD MANHOLE NOTES AND DETAILS ARE APPLICABLE SHALLOW MANHOLE

SEWER PICK HOLE 5'x 5'x 5" THICK CONCRETE COLLAR WITH WIRE MESH - MACHINED SURFACES - FINISHED GRADE (MUST ALLOW FOR INFLOW PROTECTOR) -0-0-0-VVV <u>FRAME</u> 1. COLLAR IS REQUIRED ONLY WHEN MANHOLE IS OUT OF PAVEMENT. 2. STANDARD FRAME AND COVER SIZE SHALL BE SEVEN INCHES (7"). A 4" FRAME MAY ONLY BE USED WITH PRIOR APPROVAL. A STEEL MANHOLE RISER, APPROVED HDPE ADJUSTING RINGS OR ADDITIONAL BRICKS MAY BE USED TO ELEVATE EXISTING MANHOLE COVERS TO RESURFACED GRADE (MAX. 4" HEIGHT). 4. COVER SHALL FIT FLUSH WITH THE FRAME WITH THE INFLOW PROTECTOR INSTALLED. SANITARY SEWER MANHOLE FRAME & COVER Figure 2-10 City Of Callaway Shallow Manhole With Prolypropylene

PAVEMENT IN ACCORDANCE WITH THE SPECIFICATIONS TRENCH WIDTH 'W' + 4' MIN SURFACE RESTORATION EXISTING REPLACEMENT PRIME COAT PER THE SPECIFICATIONS SAW EXIST. PAV'T. MIN - REPLACEMENT FLOWABLE FILL " MAX. LAYERS OR OR SOIL CEMENT OTHER APPROVED METHOD TO ACHIEVE 95% COMPACTION - MAX. WATER LEVEL ALLOWABLE DURING CONSTRUCTION STONE BEDDING WHERE EXCAVATION CONDITIONS REQUIRE PER SPECIFICATIONS 12" PIPE 12" 0.D. SEE NOTE 8 UNDISTURBED SOIL 1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE ALTERNATE METHOD OF CONSTRUCTION TO COMPLY WITH THE FLORIDA TRENCH SAFETY ACT. 2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD. 3. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED AND KEYED JOINTS (1 1/2" MIN. THK.) 4. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180. 5. FOR PVC AND HDPE PIPE - INSTALL MINIMUM 12-GAUGE COPPER TRACE WIRE OVER FULL LENGTH OF PIPE. SEE SPECIFICATIONS. 6. THE BACK FILL MATERIAL SHALL HAVE NO MORE THAN 15 PERCENT PASSING THE NUMBER 200 SIEVE. WHEREVER POSSIBLE, USE IN-SITU MATERIAL FOR 7. ALL PIPE SHALL BE BURIED WITH IDENTIFICATION TAPE ABOVE THE TOP OF 8. NO. 89 STONE BEDDING 6 INCHES BELOW INVERT TO SPRINGLINE WHERE EXCAVATION CONDITIONS REQUIRE PER SPECIFICATIONS. (PAVED AREAS)

STANDARD "T" BRANCH __STANDARD ELBOW (SEE NOTE 7) 1. ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY. 2. THE PRECAST BASE SHALL EXTEND FULLY UNDER THE DROP ASSEMBLY. 3. MASONRY CONSTRUCTION ABOVE THE EXTENDED PRECAST BASE, IF FILLED WITH CONCRETE, IS PERMISSIBLE. 4. BRICK AND CONCRETE RUBBLE ARE PERMITTED AS FILLER IN DROP ENCASEMENT. 5. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2.0 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL. DROP CONNECTIONS SHOULD NOT BE DESIGNED FOR LESS THAN A 2.4 FOOT DROP. 6. SOLVENT TYPE JOINT PVC FITTINGS MAY BE UTILIZED IN THE DROP ASSEMBLY ONLY. 7. RISER STEEL TO BE CAST IN PLACE WITH BASE (4 RODS) OR USE 4 - 1/2" DIA. COIL LOOP INSERTS CAST IN PLACE WITH BASE (TO BE USED WITH 1/2" COIL RODS). COIL LOOP INSERTS TO BE "DAYTON SUPERIOR" B16, 1/2"X 4" OR APPROVED EQUAL.

DROP CONNECTION PRECAST MANHOLE

Figure 2-5 City Of Callaway **Drop Connection Precast Manhole**

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UTILITY DETAILS IMPERIAL DRIVE

Liner System Cast-In

Christopher B. Forehand, P.E. 58028 stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556 OPR CERTIFICATION #EB-7806

Figure 8-1 City Of Callaway Trench Detail SHEET NUMBER

SCALE: AS NOTED DATE BY REVISIONS DESIGNED BY: CBF DRAWN BY: CAK REVIEWED BY: CBF ISSUE DATE: APRIL 2022

CALLAWAY, FLORIDA

Figure 2-6

City Of Callaway

Shallow Manhole

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PROJECT NUMBER

26035

Figure 8-2 City Of Callaway Trench Detail

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum		

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.

(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.

(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.

(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Disclaimer – This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

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UTILITY DETAILS IMPERIAL DRIVE

CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556 SHEET NUMBER **I13** DPR CERTIFICATION #EB-7806

PROJECT NUMBER 26035

ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE BASED ON THE NOTED ELEVATION REFERENCE. USE OF THE BENCHMARKS FOR VERTICAL CONTROL SHOULD BE PERFORMED IN ACCORDANCE WITH STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS OUTLINED IN RULE 5J-17, FLORIDA ADMINISTRATIVE CODE. PRIOR TO UTILIZING THE BENCHMARKS FOR VERTICAL CONTROL, USER SHALL CHECK PROVIDED BENCHMARKS TO ENSURE THAT THEY HAVE NOT BEEN DISTURBED AND THAT THEY ARE RELATIVE TO EACH OTHER.

A REVIEW OF FLOOD INSURANCE RATE MAP NUMBER 12005C0366H FOR BAY COUNTY, FLORIDA, AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER 120005 0366 H, EFFECTIVE DATE: JUNE 2, 2009, INDICATES THAT THE PROPERTY SHOWN HEREON IS WITHIN ZONE X.

LEGEND

EXISTING MANHOLE
EXISTING LIGHT POLE
EXISTING POWER POLE
EXISTING GUY ANCHOR

SIGN
EXISTING FENCE
EXISTING FIRE HYDRAN
OO EXISTING SPOT GRADE

EXISTING CONCRETE TO REMAIN

EXISTING ASPHALT TO REMAIN

EXISTING ASPHALT TO BE REMOVED

EXISTING FENCE TO BE REMOVED

SURVEY PROVIDED BY:
BUCHANAN & HARPER, INC.
735 WEST 11TH STREET
PANAMA CITY, FL 32401
PHONE: (850) 763-7427

REV	DATE	BY	REVISIONS	SCALE: AS NOTED	
				DESIGNED BY: JDC	
				DRAWN BY: JAH	
				REVIEWED BY: CBF	
				ISSUE DATE: APRIL 2021	
NOT		RELEA	ASED FOR CONSTRUCTION BY: DATE:	ACAD FILE NAME: 26027e1.dwg	



REMOVE EXISTING FENCE
AND PROVIDED TO THE CITY

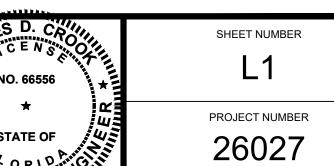
EXISTING FENCE ______
TO REMAIN

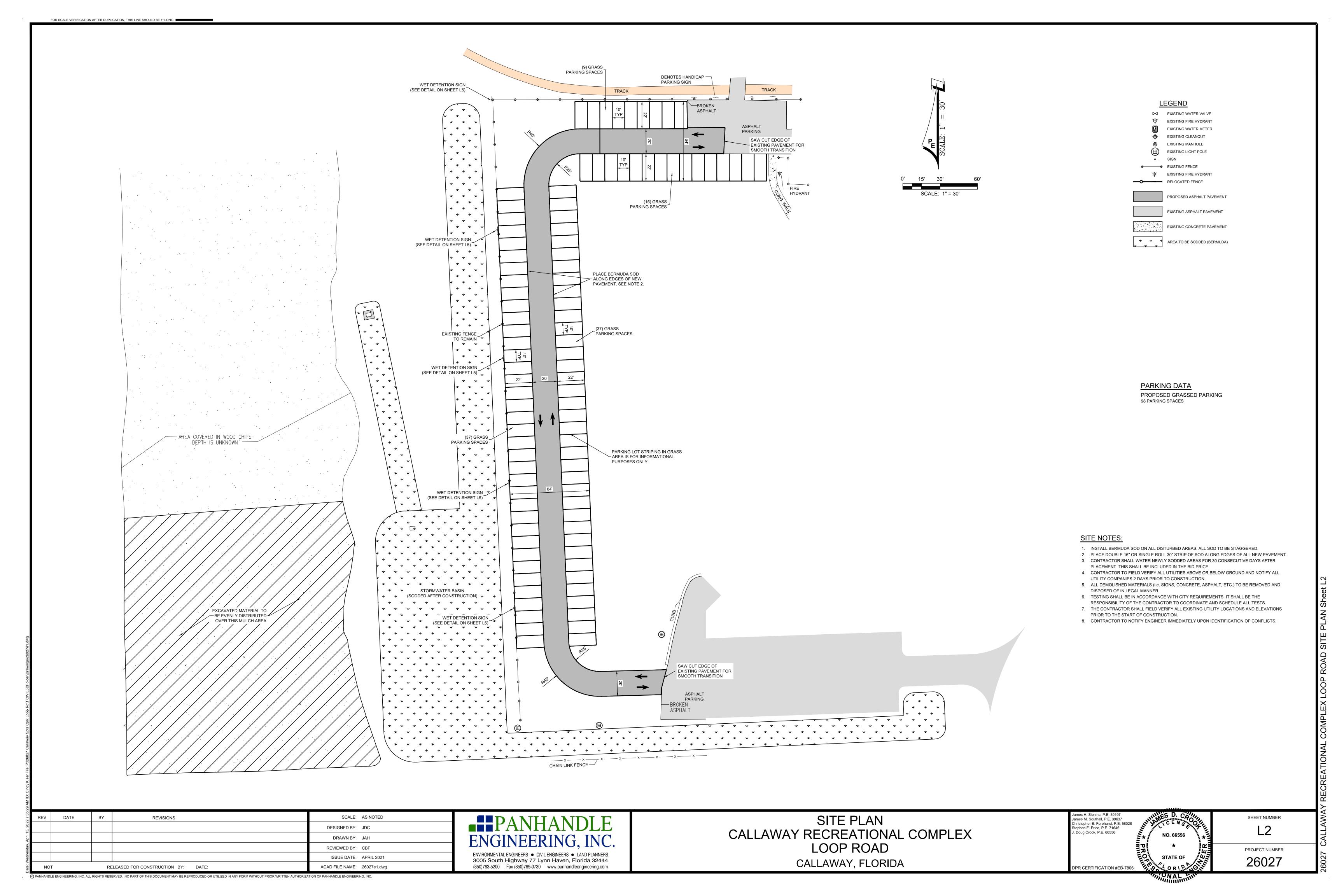
× 36.10
CONCRETE FLUME
TO BE DEMOLISHED

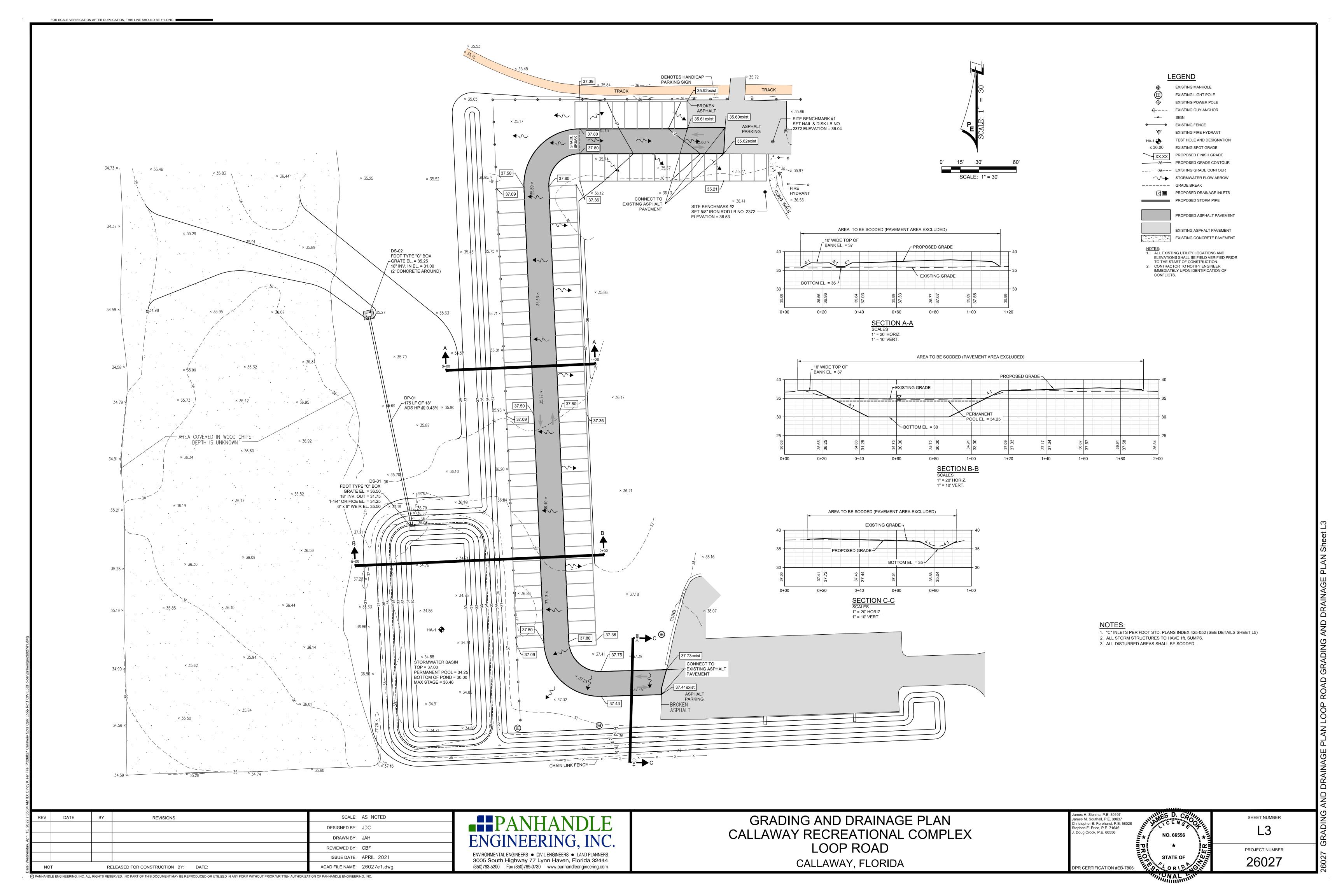
SITE BENCHMARK #1 SET NAIL & DISK LB NO.

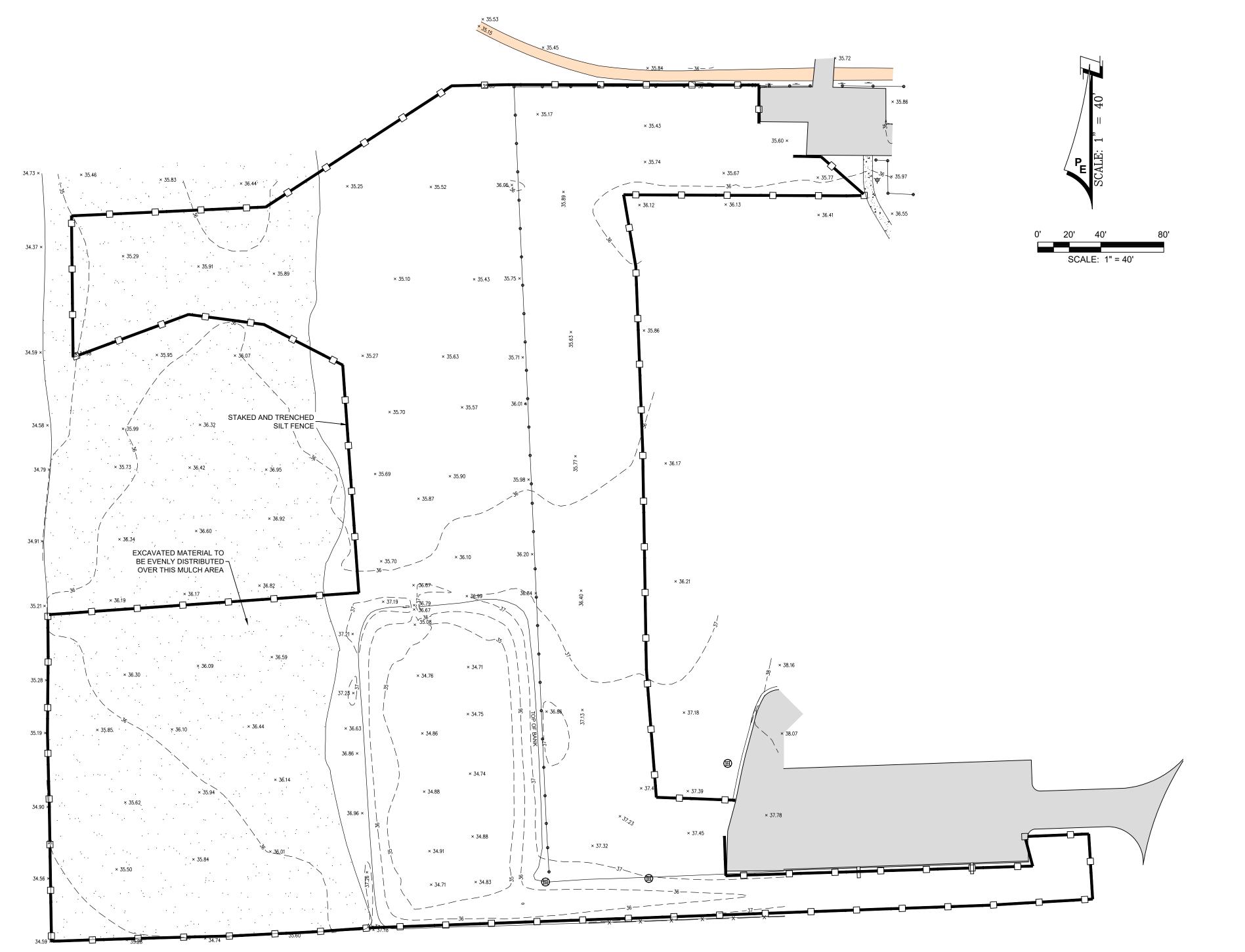
SITE BENCHMARK #2
SET 5/8" IRON ROD LB NO. 2372
ELEVATION = 36.53

SAW CUT AND REMOVE
AREAS OF BROKEN
ASPHALT PAVEMENT









WOOD POST EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT INSPECT AND REPAIR FENCE 24 HRS AFTER EACH STORM EVENT. REMOVE SEDIMENTS NO LATER THAN WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE BARRIER. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED. 10 FT. MAX. SPACING WITH 3. SILT FENCE SHALL BE PLACED ON SLOPE WIRE SUPPORT FENCE 6 FT. CONTOURS TO MAXIMIZE PONDING EFFICIENCY. MAX. SPACING WITHOUT WIRE SUPPORT FENCE

STEEL OR WOOD POST 36" HIGH MAX. STAKED AND TRENCHED ~ FILTER FABRIC ATTACH STAKED AND TRENCHED SILT FENCE ✓ SECURELY TO UPSTREAM SILT FENCE SIDE OF POST. → RUNOFF → RUNOFF RUNOFF 4"X6" TRENCH WITH 4"X6" TRENCH WITH COMPACTED BACKFILL COMPACTED BACKFILL SINGLE ROW STAKED SILT FENCE DETAIL NOT TO SCALE (REQUIRED AT ALL SHORELINE,

STANDARD SILT FENCE DETAIL

ENVIRONMENTAL SEQUENCE

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM

SEQUENCE OF MAJOR ACTIVITIES

- THE ORDER OF ACTIVITIES WILL BE AS
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- REQUIRED.
- CONSTRUCT SEDIMENTATION BASIN. CLEAR AND GRUB FOR DIVERSION
- SWALES/DIKES AND SEDIMENT BASIN AT PERMANENT POND LOCATION.
- CONTINUE CLEARING AND GRUBBING

AS REQUIRED.

- STOCKPILE TOP SOIL IF REQUIRED.
- PERFORM PRELIMINARY GRADING ONSITE,

8. STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE. 9. INSTALL UTILITIES, STORM SEWER, CURBS

WETLAND, AND WETLAND BUFFER AREAS)

INSTALL SILT FENCES AND HAY BALES, AS 10. APPLY BASE TO PROJECT.

AND GUTTER.

- 11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
- 12. COMPLETE FINAL PAVING.
- 13 REMOVE ACCUMULATED SEDIMENT FROM
- WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED. REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS

SEE NOTE

SOD SIDE SLOPES-

SLOPE STABILIZATION DETAIL

FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD.

1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD.

SEE SLOPE STABILIZATION DETAIL THIS SHEET

1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

AREAS NOT SODDED TO BE STABILIZED WITH HYDROSEEDING.

SLOPE STABILIZATION NOTES

1:3 TO 1:2 - SOD LAPPED AND PINNED.

TIMING OF CONTROLS/MEASURES

6" SOD STAPLES.

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY

DEWATERING NOTES:

CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: KEVIN HARGETT, FDEP NW DIST. WASTEWATER SECTION. EMAIL: kevin.hargett@dep.state.us PHONE: 850.595.0687)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

"DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS. THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS, AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT APPLICANT'S HANDBOOK VOLUME I." IN ADDITION. DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (INDUSTRIAL WASTEWATER) AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

PRIOR TO COMMENCEMENT OF CONSTRUCTION DEWATERING ACTIVITIES ANALYTICAL TEST OF UNTREATED GROUNDWATER FOR THE PARAMETERS LISTED IN TABLE 4-1 MUST BE PERFORMED FOR EACH LOCATION.

IF THE ANALYTICAL TESTS ARE WITHIN THE SCREENING VALUES LISTED IN TABLE 4-1 DEWATERING OF THE SITE MAY BEGIN IMMEDIATELY. A SUMMARY REPORT DESCRIBING THE PROPOSED ACTIVITY AND A COPY OF THE TEST REPORT SHOULD BE SENT TO THE LOCAL FDEP OFFICE WITHIN ONE WEEK AFTER DISCHARGE BEGINS

ADDITIVE SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN ONCE EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDEP, IF REQUESTED.

DURING DEWATERING, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO

THE CONTRACTOR SHALL SELECT. IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:

SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.

- A) A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS. THE WELL POINTS SHALL BE INSTALLED IN VARIABLE
- B) VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED
- C) VACUUM WELL(S) CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS. THE VACUUM WELL(S) SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN
- AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE
- D) DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE CONTROL STRUCTURE.

TABLE 4-1 GROUNDWATER DISCHARGE - SCREENING VALUES				
PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER			
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L			
PH, STANDARD UNITS	6.0 - 8.5			
TOTAL RECOVERABLE MERCURY	0.012 ug/L			
TOTAL RECOVERABLE CADMIUM	9.3 ug/L			
TOTAL RECOVERABLE COPPER	2.9 ug/L			
TOTAL RECOVERABLE LEAD	0.03 ug/L			
TOTAL RECOVERABLE ZINC	86.0 ug/L			
TOTAL RECOVERABLE CHROMIUM (HEX.)	11.0 ug/L			
BENZENE	1.0 ug/L			
NAPHTHALENE	100.0 ug/L			

mg/L = milligrams per liter ug/L = micrograms per liter

EROSION CONTROL BLANKET #2010-01 BY EROSION CONTROL SYSTEMS. (1-800-641-3277) -2x2 STAKED AT 3'±~ STAKED AND ENTRENCHED UNDER SOD ANCHORED WITH ANCHOR BALES WITH 2 - 2"x2"x4" NOTE: PROVIDE EROSION CONTROL BLANKET FROM PROPERTY LINE OR WETLAND LINE WHERE APPLICABLE TO WIRE OR -BACK OF CURB, BUILDING OR TO TOP TWINE OF BASIN AS REQUIRED.

ALL INLETS & STORM STRUCTURES TO HAVE HAY BALES ALL AROUND (SEE DETAILS THIS SHEET).

THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER 6. ALL INLETS SHALL HAVE HAY BALES OR SILT FENCE AROUND THEIR PERIMETER.

SCALE: AS NOTED

EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF

SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE

THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR

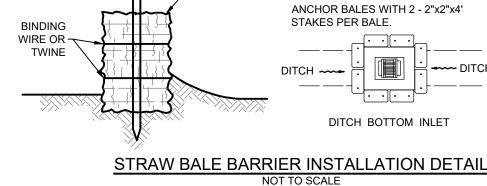
CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE

GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND

3. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO

4. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL

BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.



ENGINEERING, INC

EROSION CONTROL PLAN	
CALLAWAY RECREATIONAL COMPLEX	
LOOP ROAD	
CALLAWAY, FLORIDA	

SHEET NUMBER ames M. Southall, P.E. 39637 Christopher B Forehand P F 58028 stephen E. Price, P.E. 71646 . Doug Crook, P.E. 66556 PROJECT NUMBER OPR CERTIFICATION #EB-7806

DESIGNED BY: JDC DRAWN BY: JAH REVIEWED BY: CBF ISSUE DATE: APRIL 2021 RELEASED FOR CONSTRUCTION BY: DATE ACAD FILE NAME: 26027e1.dwg

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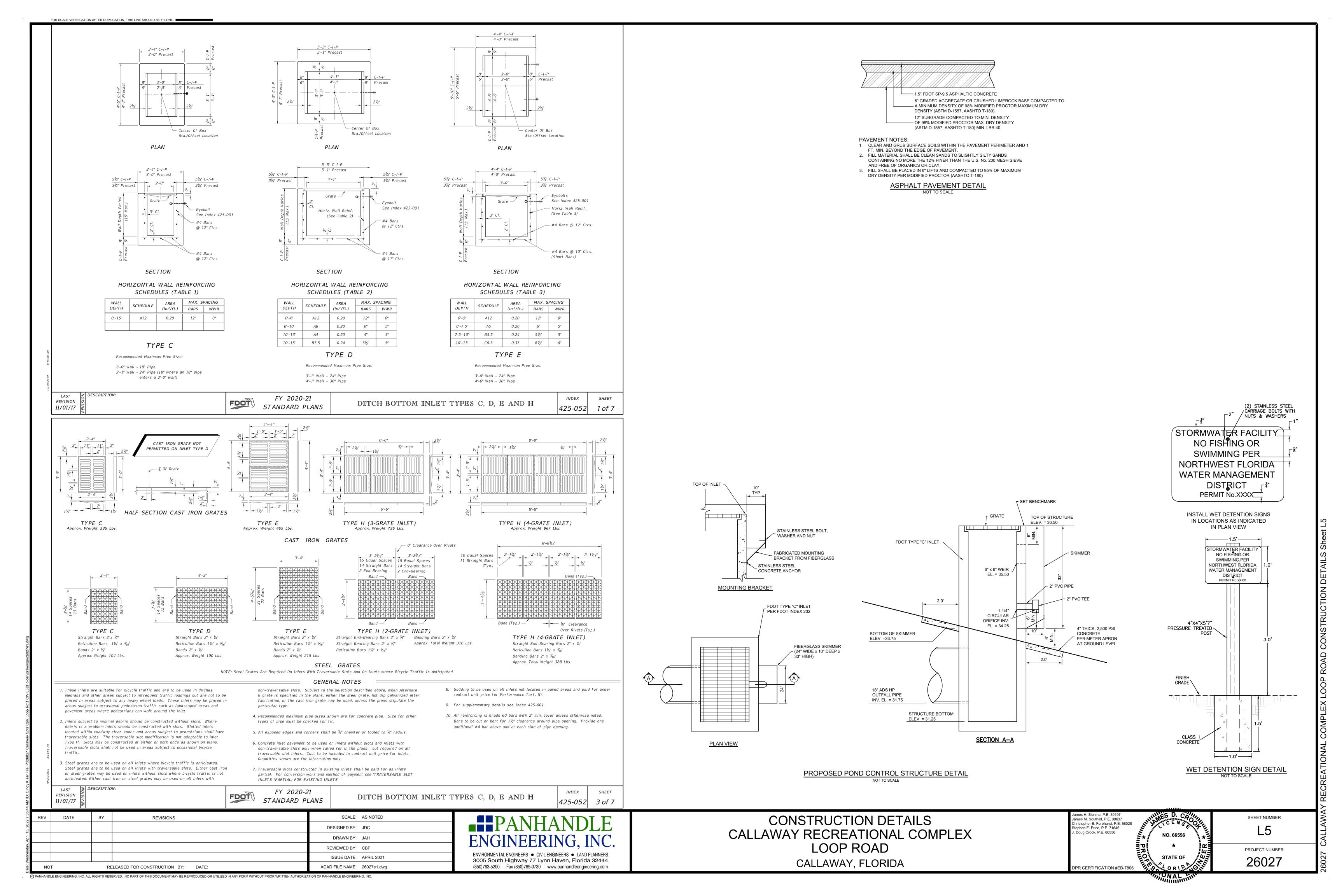
DATE

BY

REVISIONS

EROSION CONTROL NOTES:

3005 South Highway 77 Lynn Haven, Florida 32444 (850)763-5200 Fax (850)769-0730 www.panhandleengineering.com



EXISTING SITE RELATED ITEMS:

- 1. THE LOCATION OF UTILITIES SHOWN ON THE PLANS MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN. THE LOCATIONS OF UNDERGROUND UTILITIES HAVE NOT BEEN PHYSICALLY LOCATED BY THEIR OWNER OR PANHANDLE ENGINEERING,
- 2. THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE PHYSICALLY VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT INTEND TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING, WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF LINES TO AVOID CONFLICT WITH
- EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVEN DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE SURVEY.
- 4. STATIONING ON THE PLANS RELATES TO THE "2D PLAN VIEW" CENTERLINE OF ALL ROADWAYS/ RIGHT-OF-WAYS AND SHALL BE USED FOR LOCATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE STATIONING WHEN CALCULATING PIPE OR ROADWAY LENGTHS. ACTUAL LENGTH MAY DIFFER DUE TO VERTICAL ELEVATION CHANGES AND HORIZONTAL OFFSETS.
- 5. THE CONTRACTOR SHALL PHYSICALLY EXAMINE THE ENTIRE PROJECT SITE AND INFORM HIMSELF FULLY IN REGARD TO ALL CONDITIONS PERTAINING TO THE PLACE WHERE THE WORK IS TO BE PERFORMED FOR PURPOSE OF DETERMINING THE COST TO PERFORM THE WORK. THE CONTRACTOR SHOULD PAY SPECIAL ATTENTION TO AREAS INVOLVING CLEARING AND GRUBBING. EXISTING FACILITIES REMOVAL AND REPLACEMENT, SUPPORT ON RELOCATION, AND WORK INVOLVED IN WETLAND AREAS.
- 6. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- 7. THE CONTRACTOR SHALL VIDEO THE ENTIRE ROUTE PRIOR TO CONSTRUCTION AND PROVIDE A COPY TO THE ENGINEER PRIOR TO CONSTRUCTION. 8. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS
- NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF WORK CALLED FOR IN THESE CONTRACT DOCUMENTS.
- 10. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES

CONSTRUCTION REGULATIONS AND PERMITS RELATED ITEMS:

- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LEARN, KNOW, AND COMPLY WITH THE REGULATIONS, ORDINANCES, PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND COMPLY WITH THE CONDITIONS OF THE VARIOUS PERMITS OF THE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL SCHEDULE THE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
- 12. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST ISSUE AND SHALL BE CONSIDERED A PART OF THESE DOCUMENTS AS THOUGH INCLUDED.
- 13. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS IN POSSESSION AT ALL TIMES DURING CONSTRUCTION. ANY INDIVIDUAL CREW OR INDIVIDUAL PERSON WORKING ON THE INSTALLATION OF ANY PART OF THIS PROJECT SHALL HAVE A SET OF PLANS AND SPECIFICATIONS WITH THEM AT ALL TIMES.
- 14. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF
- 15. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR CONSTRUCTION. 16. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.

CONSTRUCTION & SITE RESTORATION RELATED ITEMS:

- 17. WHERE IT BECOMES NECESSARY TO TEMPORARILY REMOVE, REPOSITION, OR SUPPORT EXISTING FACILITIES, UTILITY POLES, ETC. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER OF THE EXISTING FACILITY, UTILITY POLE, ETC. THE CONTRACTOR SHALL GIVE PROPER NOTICE TO THE UTILITIES.
- 18. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW UTILITIES AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW UTILITIES.
- SHALL BE REINSTALLED TO EXISTING OR ACCEPTABLE CONDITION BY THE OWNER AT THE CONTRACTOR'S EXPENSE. 20. ALL PAVEMENT SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS. FOR THE REPLACEMENT OF ASPHALT ROADS AND PAVEMENT DRIVES, THE CONTRACTOR SHALL REMOVE THE EXISTING ASPHALT AND

19. ALL DISTURBED OBJECTS SUCH AS DRIVEWAYS, CULVERTS, RETAINING WALLS, FENCING, SIGNS, MAILBOXES, LANDSCAPING, ETC.

- REPLACE AS SHOWN IN DETAILS. 21. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE PROPOSED PAVEMENT ABUTS.
- 22. ALL CONCRETE DRIVEWAYS SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS. FOR REPLACEMENT OF CONCRETE CROSSINGS, THE CONTRACTOR SHALL SAW CUT BACK TO THE CLOSEST JOINT AND REPLACE AS SHOWN IN DETAILS.
- 23. ALL DISTURBED DRIVES SHALL BE CONNECTED TO THE EXISTING PAVEMENT IN A CONDITION EQUAL TO OR BETTER THAN ITS PREVIOUS CONDITION USING THE SAME MATERIALS THAT WERE REMOVED.
- 24. THE CONTRACTOR SHALL MAINTAIN A REASONABLE ACCESS TO ALL FACILITIES DURING CONSTRUCTION.
- 25. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS NECESSARY TO AVOID TRESPASSING AND PROPERTY DAMAGE. 23. ALL SPOIL MATERIAL FROM EXCAVATION SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA. 24. ALL EXISTING CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE
- AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS. 26. A ONE FOOT STRIP OF SOD SHALL BE INSTALLED ON THE FDGE OF ALL ASPHALT OVERLAY AREAS AND AROUND ALL ABOVE GROUND CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS.
- ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE CONTRACTOR IS TO FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL MANHOLES, FITTINGS, VALVES, AND DEAD END

RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.). THIS IS MANDATORY, NO EXCEPTIONS.

MAINTENANCE OF TRAFFIC AND ROADWAY RELATED ITEMS:

- 28. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ADEQUATE TRAFFIC CONTROL AND TO PROVIDE DETOURS AROUND CONSTRUCTION ACTIVITIES. NO STREET SHALL REMAIN CLOSED TO TRAFFIC OVERNIGHT
- 29. THE CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE PROJECT IN ACCORDANCE WITH THE LATEST EDITION OF THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM
- 30. CONTRACTOR SHALL MAINTAIN A REASONABLE ACCESS TO ALL FACILITIES DURING CONSTRUCTION. ALL DRIVEWAYS SHALL BE COMPACTED AND MAINTAINED DURING CONSTRUCTION TO ALLOW ACCESS TO FACILITIES AT ALL TIMES. ALL TEMPORARY STABILIZATION SHALL BE SMOOTH AND LEVEL.

EROSION CONTROL AND DEWATERING ITEMS:

- 31. PRIOR TO STARTING ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED, STATE, AND LOCAL APPROVAL DOCUMENTS
- 32. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL PER THE GUIDELINES OF THE FLORIDA DEVELOPMENT MANUAL. ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SHALL BE INCLUDED IN COST OF OTHER ITEMS
- 33. CONTRACTOR SHALL INSTALL ANY REQUIRED SLOPE STABILIZATION, SILT FENCING, OR TURBIDITY CURTAINS PER CURRENT FDOT DESIGN STANDARDS (FDOT INDEX 100, 101, 102, 103, & 104). LOCATION SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED IN
- 34. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL CONSTRUCTION AND PREVENT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES, WETLANDS, STORM DRAINAGE SYSTEMS, AND/OR OFF-SITE AREAS, WHETHER SUCH EROSION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. AT NO ADDITIONAL COST TO OWNER, ADDITIONAL EROSION CONTROLS SHALL BE UTILIZED AS NECESSARY AND AS DIRECTED BY THE ENGINEER TO LIMIT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES, WETLAND OR STORM DRAINAGE SYSTEMS. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK.
- 35. ALL CONSTRUCTION AREAS SHALL BE STABILIZED AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS SHALL BE CHECKED AT THIS TIME AND MAINTAINED OR REINFORCED IF NECESSARY.
- 36. EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED FOR THE DURATION OF THE PROJECT TO LIMIT THE MOVEMENT OF SILTATION AND SEDIMENTS FROM ENTERING EXISTING DRAINAGE SYSTEMS OR FROM LEAVING THE CONSTRUCTION SITE. ANY ACCUMULATED SEDIMENTS ARE TO BE REMOVED FROM THE EROSION CONTROLS AND DISPOSED TO PROPERLY, ADDITIONALLY, ALL EROSION CONTROLS ARE TO BE INSPECTED AFTER A STORM EVENT AND THE CONTROLS REPLACED OR ARMORED AS NECESSARY AND ACCUMULATED SEDIMENTS REMOVED.
- 37. TEMPORARY STOCKPILING OF MATERIALS RELATED TO THE CONSTRUCTION ACTIVITIES ARE TO BE PROPERLY STABILIZED. PROTECTED AND DEMARCATED TO LIMIT MATERIAL MOVEMENT AND EROSION FROM DEPOSITING INTO ADJACENT PROPERTIES, WETLAND OR STORM DRAINAGE SYSTEMS.
- 38. THE INSTALLATION OF ALL CONCRETE STRUCTURES, GRAVITY SEWER, FORCE MAINS, WATER MAINS, ETC. SHALL BE INSTALLED IN DRY CONDITIONS. DEWATERING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR TO ENGINEER PRIOR TO INSTALLATION.
- 39. THE CONTRACTOR SHALL UTILIZE APPROPRIATE DEWATERING SYSTEMS AND TECHNIQUES TO MAINTAIN THE EXCAVATED AREA SUFFICIENTLY DRY FROM GROUNDWATER AND/OR SURFACE RUNOFF SO AS NOT TO ADVERSELY AFFECT CONSTRUCTION PROCEDURES OR CAUSE EXCESSIVE DISTURBANCE OF UNDERLYING NATURAL GROUND.
- 40. WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED INTO ANY SANITARY SEWER SYSTEM.
- 41. WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED DIRECTLY TO STORM DRAIN SYSTEMS. PROPER TREATMENT TO A SEDIMENTATION AREA IS TO TAKE PLACE PRIOR TO DISCHARGE TO ANY DRAINAGE SYSTEMS. 42. WATER FROM THE TRENCHES AND EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO AVOID PUBLIC NUISANCE,
- PRIVATE PROPERTY, OR DAMAGE TO THE WORK COMPLETED OR IN PROGRESS. SILTATION BARRIERS SHALL BE UTILIZED AS 43. THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM

INJURY TO PUBLIC HEALTH OR THE ENVIRONMENT. DAMAGE OR PUBLIC OR PRIVATE PROPERTY. OR DAMAGE TO PUBLIC OR

FAILURE TO MAINTAIN ALL THE AREAS OF WORK IN SUITABLE DRY CONDITION. 44. PRECAUTIONS SHALL BE TAKEN TO PROTECT NEW WORK FROM FLOODING DURING STORMS OR FROM OTHER CAUSES. GRADING IN THE AREAS SURROUNDING ALL EXCAVATIONS SHALL BE PROPERLY SLOPED TO PREVENT WATER FROM RUNNING INTO THE EXCAVATED AREA OR TO ADJACENT PROPERTIES. WHERE REQUIRED, TEMPORARY DITCHES SHALL BE PROVIDED FOR DRAINAGE

UPON COMPLETION OF THE WORK AND WHEN DIRECTED, ALL AREAS SHALL BE RESTORED IN A SATISFACTORY MANNER AND AS

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SPECIAL NOTES:

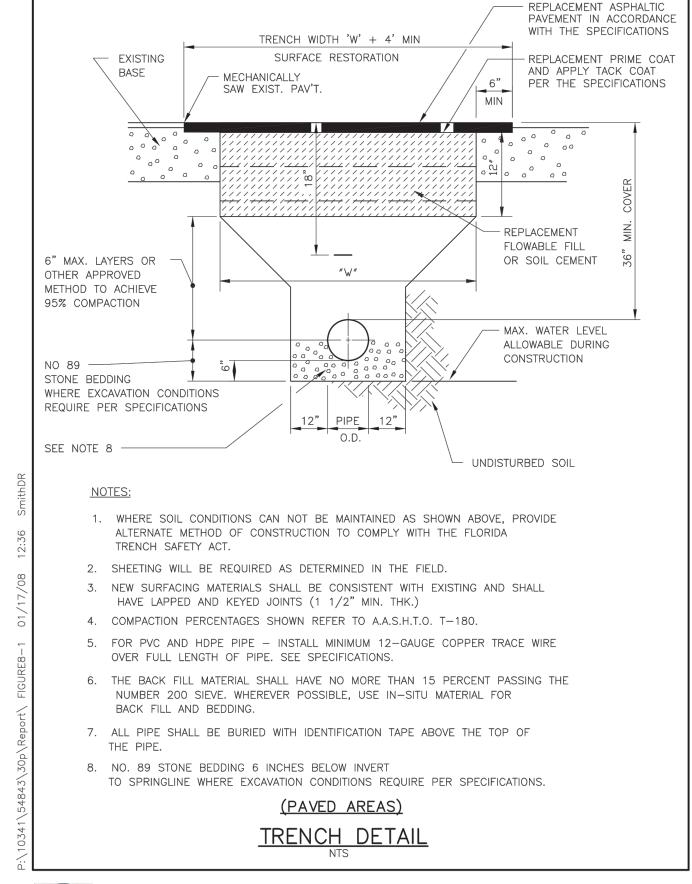
- CONTRACTOR SHALL EXCAVATE AND VERIFY THE EXISTING WATER MAIN LOCATIONS AND SIZE PRIOR TO SCHEDULING WATER OUTAGE FOR CONNECTION.
- 2. CONTRACTOR SHALL CUT AND REMOVE ASPHALT ROADWAYS AS NECESSARY TO INSTALL NEW WATER MAINS,
- WATER SERVICE LINES AND OTHER REQUIRED UTILITY IMPROVEMENTS.
- 3. ALL ROADWAYS AND DRIVEWAYS SHALL BE COMPACTED AND MAINTAINED DURING CONSTRUCTION SO RESIDENCE CAN HAVE ACCESS AT ALL TIMES. ALL TEMPORARY STABILIZATION SHALL BE SMOOTH AND LEVEL. 4. PIPE TESTING SHALL BE PERFORMED WITHIN IN ONE WEEK OF COMPLETING UTILITY IMPROVEMENTS IN ANY
- SECTION. SEE TEST SCHEDULE FOR MORE REQUIREMENTS.
- 5. ALL ROADWAY, DRIVEWAY AND SIDEWALK RESTORATION SHALL BE COMPLETED WITHIN ONE WEEK OF SUCCESSFUL PIPE TESTING IN ANY SECTION.
- 6. ALL DISTURBED YARD AND GRASSED AREAS SHALL BE SODDED WITH CENTIPEDE.
- 7. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING DAMAGED SECTIONS OF CONCRETE CURB. 8. COST FOR ALL NECESSARY REMOVAL AND REPLACEMENT OF DRIVEWAYS, SIDEWALKS, AND CURBS SPECIFIED
- ON CONSTRUCTION DRAWINGS SHALL BE INCLUDED IN LUMP SUM BID PRICE FOR EACH SECTION. 9. CONTRACTOR SHALL REMOVE AND REPLACE ALL TREES. SHRUBS AND IRRIGATION DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT A WORK CHANGE DIRECTIVE PRIOR TO CONSTRUCTION FOR ANY
- ADDITIONAL COST FOR WORK REQUIRED IN LANDSCAPED AREAS. 10. CONTRACTOR SHALL PROVIDE FITTINGS AS NECESSARY TO MAINTAIN WATER MAIN SEPARATION REQUIREMENTS. CONTRACTOR SHALL RESTRAIN ALL WATER MAINS JOINTS WHERE 6' HORIZONTAL SEPARATIONS CANNOT BE MAINTAINED BETWEEN EXITING SEWER AND STORMWATER UTILITIES.
- 11. CONTRACTOR SHALL COMPLETE WATER SERVICE CONNECTIONS TO EXISTING METERS AFTER NEW WATER MAINS HAVE BEEN CERTIFIED AND PLACED INTO SERVICE.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY OWNER TO STABILIZE POWER POLES
- AS THEY ARE ENCOUNTERED THROUGHOUT THE ENTIRE PROJECT. 13. REMOVAL AND REPLACEMENT OF EXISTING DRIVEWAYS AND DRIVEWAY CULVERTS SHALL BE INCLUDED IN THE
- BID PRICE. NEW DRIVEWAYS SHALL MATCH EXISTING MATERIALS. 14. REMOVAL AND REPLACEMENT OF EXISTING SIGNS, MAILBOXES, SODDING, IRRIGATION, LANDSCAPING,
- STRUCTURES, ETC. SHALL BE INCLUDED IN THE BID PRICE. 15. COMPACTION TESTING SHALL BE PERFORMED AT EACH ROADWAY CUT FOR SERVICE LATERALS AND PER FDOT
- SPECIFICATIONS FOR ROAD RECONSTRUCTION AND SHALL BE INCLUDED IN THE BID PRICE. 13. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS
- SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES INCLUDING RECONNECTING ALL WATER AND SEWER SERVICES DAMAGED/BROKEN DURING THE INSTALLATION ON ALL PROPOSED UTILITIES AND OTHER IMPROVEMENTS. WITH NO ADDITIONAL COST TO THE OWNER.
- 15. THE CONTRACTOR SHALL AVOID OR MINIMIZE THE DISTURBANCE OF EXISTING TREES DURING THE INSTALLATION OF ALL WATER MAINS AND OTHER PROPOSED IMPROVEMENTS WITHIN THE RIGHT OF WAYS AND EASEMENTS. IF TREES ARE DAMAGED OR REQUIRED TO BE MOVED, THEY SHALL BE REPLACED WITH TREES OF SIMILAR SIZE AND SPECIES WITH NO ADDITIONAL COST TO THE OWNER. IF APPLICABLE, THE CONTRACTOR MAY USE THE DIRECTIONAL BORE (FOR PRESSURE PIPE) OR JACK AND BORE (FOR GRAVITY PIPE) METHODS IN LIEU OF OPEN
- CUTTING TO AVOID IMPACTS AT CONTRACTORS EXPENSE. 16. THE CONTRACTOR SHALL DIRECTIONAL BORE AND INSTALL HDPE PIPE UNDER ROADWAYS, DRIVEWAYS, DITCH CROSSINGS, ETC. AS SHOWN ON THE PLANS. CONTRACTOR SHALL DETERMINE NECESSARY HDPE PIPE LENGTHS BORE ENTRY/EXIT POINTS AND BORE PITS TO COMPLETE DIRECTIONAL BORE INSTALLATIONS
- 17. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING WATER MAINS AND SERVICE LINES EXCAVATED DURING THE INSTALLATION OF THE PROPOSED WATER SYSTEM IMPROVEMENTS. ALL ABANDONED SECTIONS OF NON-EXCAVATED EXISTING WATER MAIN SHALL BE FLOWABLE FILLED. ALL DEMOLITION AND FLOWABLE FILL WORK SHALL BE INCLUDED IN THE BID PRICE.
- 18. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MAINTENANCE OF TRAFFIC PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. SIGNAGE SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE INCLUDED IN
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BY-PASS PUMPING AND SHALL BE INCLUDED IN THE BID PRICE.
- 20 CONTRACTOR SHALL PROVIDE DE-WATERING AS NECESSARY FOR THE INSTALLATION OF ALL PROPOSED. IMPROVEMENTS. ALL DE-WATERING SHALL BE INCLUDED IN THE BID PRICE.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT AND MAINTAINING THE SILT FENCE, INLET PROTECTION, AND ANY OTHER EROSION CONTROL NECESSARY IN THE NPDES PERMIT GUIDELINES.
- 16. THE CONTRACTOR SHALL VIDEO THE ENTIRE ROUTE PRIOR TO CONSTRUCTION AND PROVIDE A COPY TO THE ENGINEER PRIOR TO CONSTRUCTION.

UTILITY TRENCHES - TESTING NOTES AND SCHEDULE:

- 1. COPIES OF TEST REPORTS FOR ASPHALT, SUBGRADE, FILL, AND BACKFILL UNDER ROADWAYS AND STRUCTURES, AND UTILITY TRENCHES SHALL BE PROVIDED DIRECTLY TO THE ENGINEER FOR APPROVAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE TESTING AND INSURE THAT ALL APPLICABLE TESTS HAVE BEEN PERFORMED. FAILURE TO OBTAIN TEST RESULTS AT ANY POINT OF CONSTRUCTION WILL REQUIRE THE REMOVAL OF THE IMPROVEMENT AND REPLACEMENT BY THE CONTRACTOR. IT SHOULD BE NOTED THAT THE ENGINEER WILL REQUIRE COMPACTION TESTING IN ACCORDANCE WITH THE TESTING SCHEDULE FOR UTILITY TRENCH FILL AND BACKFILL.
- 2. TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TESTING SCHEDULE CONTAINED WITHIN THESE PLANS. SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL

DENSITY TESTING SCHEDULE:

	ITEM	DENSITY REQUIREMENT	DENSITY TEST FREQUENCY
	UTILITY TRENCH FILL & BACKFILL	90% STANDARD DENSITY	PER SOIL TYPE ONE PER 500 LF HORIZONTAL OR ONE PER 750 SY WITH A MAXIMUM OF 3 TESTS, ALTERNATING LIFTS (12") ONE PER SOIL TYPE
	FILL & BACKFILL UNDER ROADWAYS AND STRUCTURES	98% OF STANDARD DENSITY	PER SOIL TYPE ONE PER 200 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TESTS (PER SECTION OF WORK), ALTERNATING LIFTS (12") ONE PER SOIL TYPE
	SUBGRADE UNDER ROADWAYS AND STRUCTURES	98% OF MAXIMUM DENSITY, MODIFIED PROCTOR	ONE PER SITE OR AT MATERIAL CHANGES PER SOIL TYPE ONER PER 200 LF HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TESTS (PER SECTION OF WORK)
	LIMEROCK BASE UNDER ROADWAYS AND STRUCTURES	98% OF MAXIMUM DENSITY, MODIFIED PROCTOR	ONE PER SITE OR AT MATERIAL CHANGES ONE PER 200 LF HORIZONTAL OR ONE PER 1200 SY WITH A MINIMUM OF 3 TESTS (PER SECTION OF WORK)



- 6" MAX. LAYERS OR OTHER APPROVED METHOD TO ACHIEVE 95% COMPACTION MAINTAIN TRENCH WIDTH 1-0" ABOVE TOP OF PIPE MAX. WATER LEVEL STONE BEDDING WHERE ALLOWABLE DURING **EXCAVATION CONDITIONS** CONSTRUCTION REQUIRE PER SPECIFICATIONS SEE NOTE 7 NATIVE MATERIAL OR TRENCH WIDTH FINE CRUSHED CONCRETE UNDISTURBED SOIL WHERE EXCAVATION CONDITIONS REQUIRE PER SPECIFICATIONS 1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE ALTERNATE METHOD OF CONSTRUCTION TO COMPLY WITH THE FLORIDA TRENCH SAFETY ACT. 2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD. 3. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180. 4. FOR PVC AND HDPE PIPE - INSTALL MINIMUM 12-GAUGE TRACE WIRE OVER FULL LENGTH OF PIPE. SEE SPECIFICATIONS. 5. WHEREVER POSSIBLE, USE IN - SITU MATERIAL FOR BACK FILL AND BEDDING. THE BACK FILL MATERIAL SHALL HAVE NO MORE THAN 15 PERCENT PASSING THE NUMBER 200 SIEVE. 6. ALL PIPE SHALL BE BURIED WITH IDENTIFICATION TAPE ABOVE THE TOP OF THE PIPE. 7. NO. 89 STONE BEDDING 6 INCHES BELOW INVERT TO SPRINGLINE WHERE EXCAVATION CONDITIONS REQUIRE PER SPECIFICATIONS.

Figure 9-1

City Of Callaway

Trench Detail

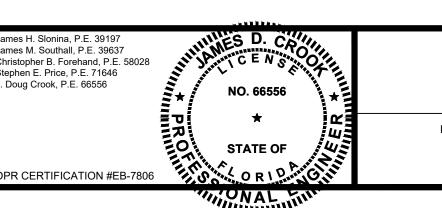
Figure 9-2 City Of Callaway Trench Detail

DATE BY SCALE: AS NOTED **REVISIONS** DESIGNED BY: JDC DRAWN BY: JAH REVIEWED BY: CBF ISSUE DATE: APRIL 2021 RELEASED FOR CONSTRUCTION BY: DATE ACAD FILE NAME: 26027e1.dwa

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CONSTRUCTION DETAILS CALLAWAY RECREATIONAL COMPLEX LOOP ROAD CALLAWAY, FLORIDA



SHEET NUMBER PROJECT NUMBER 26027

PR CERTIFICATION #EB-7806

SHEET NUMBER PROJECT NUMBER

IS THERE EVIDENCE OF

DOES SILT NEED TO BE

REMOVED FROM AROUND

CONTROL

WASHOUT OR OVERTOPPING

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