

BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING / INFRASTRUCTURE DIVISION

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PLANS PROPOSED FOR
GALVEZ LANDING BOAT RAMP
IMPROVEMENTS
(PD 18-19.067)

SITE DEVELOPMENT & ROADWAY IMPROVEMENTS

100% CONSTRUCTION PLANS
MARCH 2021

ENGINEER:
MUNICIPAL ENGINEERING SERVICES, INC.
874 TURKEY BLUFF ROAD
NAVARRE, FL 32566
CONTACT: DALE E. LONG, PE, LEED AP
PHONE: (850) 939-5732
EMAIL: dlong@mes-i-fl.com

SITE INFORMATION:
STREET ADDRESS: 5809 GALVEZ ROAD
PARCEL NUMBER: 14-35-32-5000-630-002
PARCEL ZONING: REC
FUTURE LAND USE: REC
PROPOSED USE: PARK
PARCEL SIZE: 164 ACRES

PROJECT
LOCATION

VICINITY
MAP

COMMISSIONERS

DISTRICT ONE	JEFF BERGOSH, VICE CHAIRMAN
DISTRICT TWO	DOUG UNDERHILL
DISTRICT THREE	LUMON MAY
DISTRICT FOUR	ROBERT BENDER, CHAIRMAN
DISTRICT FIVE	STEVEN BARRY

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY
TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,
LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED
AND NOT APPLICABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN
THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL
SPECIFICATIONS.

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

B. Additional Documents (to be completed by the Engineer of Record)
Does this Project have additional technical specifications or construction details that supplement and/or supersede the Manual listed above? ☐ YES ☐ NO ☐ If yes, Contractor shall construct Project in accordance with said documents as listed and located below:

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

*Project Manuals used only with ECUA CIP Projects

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

Approved
ESCAMBIA COUNTY DRG PLAN REVIEW

DRG Chairman Signature: [Signature] 3-17-2021
Printed Name: Shannon Rugh Date

This document has been reviewed in accordance with the requirements of applicable Escambia County Regulations and Ordinances, and does not in any way relieve the submitting Architect, Engineer, Surveyor or other signatory from responsibility of details as drawn. A Development Order (DO) must be obtained through the Development Review Process prior to the commencement of construction. This DO approval does not constitute approval by any other agency. All additional state/federal permits shall be provided to the county prior to approval of a final plat or the issuance of state/federal permits shall be provided to the county prior to approval of a final plat or the issuance of a building permit.

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GALVEZ RD
CRUZAT WAY
INNERARITY POINT RD
LIXIA AVE
BALDERS RD
JENN AVE
WINTERED AVE
GANNON BLVD

PROJECT MANAGER:
NICOLAS CHAUVIN

SECTION / TOWNSHIP: 14-35-32 DISTRICT: 14-35-32

PROJECT ENGINEER: DALE E. LONG, PE REG FLA ENG NO: 35393

SIGNATURE: [Signature] DATE: MARCH 2021

PHASE REVIEW SIGNATURE:	ORIGINATOR (RP) PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	DATE	ORIGINATOR (QR) CORRECT (Green Highlighter) Changes (Red Pen)	DATE	VERIFICATION, CHECKER (QR) REMARK INCORPORATION (Blue Highlighter) ORIGINATOR VERIFICATION (Pink Highlighter)	DATE
	CHECKER (RP) CHANGE INCORPORATION (Yellow Highlighter)	DATE	CHECKER (RP) CORRECT (Green Highlighter) Changes (Red Pen)	DATE	CHECKER (RP) REMARK INCORPORATION (Blue Highlighter) ORIGINATOR VERIFICATION (Pink Highlighter)	DATE

GENERAL NOTES:

1. THE OWNER INTENDS THAT THE CONTRACT DOCUMENTS WILL PROVIDE A COMPLETE AND FULLY FUNCTIONAL PROJECT. WHERE LABOR AND MATERIAL MAY BE REQUIRED TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL PROJECT BUT IS NOT FULLY SPECIFIED, DETAILED, OR SHOWN AS A CONSTRUCTION ITEM, THE CONTRACTOR SHALL PROVIDE THE REQUIRED MATERIAL OR LABOR TO MEET THE INTENT OF THE CONTRACT DOCUMENTS. THIS REQUIREMENT MAY ONLY BE CONSTRUED AS A REQUIREMENT TO COMPLETE OR MAKE FUNCTIONAL CONSTRUCTION ITEMS SHOWN IN OR ON THE CONTRACT DOCUMENTS.

2. PRIOR TO COMMENCING CONSTRUCTION WITHIN THE PROJECT AREA(S), THE CONTRACTOR SHALL VIDEO THE EXISTING CONDITIONS AND AREAS ADJACENT TO THE PROJECT THAT MAY BE IMPACTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL KEEP ONE COPY AND PROVIDE ONE COPY EACH TO THE OWNER AND OWNER'S CONSTRUCTION INSPECTION/ADMINISTRATION REPRESENTATIVE.

3. ALL FINAL CONSTRUCTION AND CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL BUILDING AND/OR CONSTRUCTION CODES, RULES OR REQUIREMENTS AS APPLICABLE.

4. ABOVE GROUND FEATURES SHOWN WHICH MAY AFFECT CONSTRUCTION WERE TAKEN FROM THE BEST AVAILABLE INFORMATION AND FIELD SURVEYS. THE OWNER DOES NOT GUARANTEE THAT ALL PHYSICAL FEATURES OR ABOVE GROUND OBSTRUCTIONS AFFECTING CONSTRUCTION ARE SHOWN. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS/HER BID. THERE SHALL BE NO ADJUSTMENT OF THE CONTRACT PRICE FOR VISIBLE FEATURES AFFECTING CONSTRUCTION.

5. THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND GEOTECHNICAL INVESTIGATION REPORT FOR THIS PROJECT ARE AN INTEGRAL PART OF THE CONSTRUCTION. THE CONTRACTOR SHALL FULLY REVIEW AND FOLLOW ALL REQUIREMENTS OF THESE DOCUMENTS IN THE COMPLETION OF THE WORK. ALL CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE.

6. ALL EXISTING FENCES, STORM DRAINS, PROPERTY CORNERS, SURVEY MONUMENTS, PAVEMENT, ROADS, SIDEWALKS, SIGNS OR ANY OTHER EXISTING OBJECTS OR STRUCTURES WHICH ARE NOT DESIGNATED FOR REMOVAL, BUT ARE DAMAGED OR DESTROYED BY THE CONTRACTOR OR BY ANYONE FOR WHOM THE CONTRACTOR IS RESPONSIBLE ARE TO BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING IN KIND OR REPAIRING TO ORIGINAL CONDITION; MAILBOXES, DRIVEWAY CULVERTS, RETAINING WALLS, LANDSCAPING, ETC. THAT ARE DISTURBED, DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES.

7. THE LEGEND IS TYPICAL FOR ALL SHEETS. SOME ITEMS MAY NOT APPLY TO EACH SHEET.

8. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THE LIMITS OF CONSTRUCTION, RIGHT-OF-WAYS AND/OR EASEMENTS SHOWN. CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGE TO AND RESTORATION OF ALL AREAS OUTSIDE OF RIGHT-OF-WAYS AND EASEMENTS, AT HIS EXPENSE.

9. IN THE EVENT THAT ANY STANDARDS OR SPECIFICATIONS AS DESCRIBED HEREIN OR SHOWN ON THE PLANS, ARE IN CONFLICT WITH EACH OTHER, THE MORE STRINGENT CRITERIA WILL APPLY. IF SUCH CONFLICTS OCCUR, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY AND IN WRITING. SHOULD THE MORE STRINGENT CRITERIA BE UNCLEAR, THE ENGINEER WILL PROVIDE AN INTERPRETATION AND DETERMINE WHICH CRITERIA IS TO BE USED.

10. THESE PLANS WERE BASED ON THE GEOTECHNICAL REPORT BY LMJ, PHONE: (850) 434-0846. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE A COPY OF THE REPORT(S) FROM THE GEOTECHNICAL ENGINEER, FAMILIARIZE THEMSELVES WITH THE CONDITIONS AS DESCRIBED IN THE REPORT(S), AND COMPLY WITH ALL RECOMMENDATIONS MADE IN THE REPORT(S) SPECIFICALLY FOR SOIL PREPARATION ON THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF ALL SUPPLEMENTAL REPORTS FOR THIS PROJECT FROM THE OWNER AND TO FOLLOW THE SUPPLEMENTAL REPORTS' RECOMMENDATIONS.

11. THE OWNER, OWNER'S REPRESENTATIVES, AND INSPECTORS OF APPLICABLE GOVERNMENT AGENCIES HAVING JURISDICTION, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK SITE. THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND INSPECTIONS.

12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO ENSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURE FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.

13. THE OWNER AND ENGINEER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF ALL TESTING.

14. ALL DISCHARGE FROM ANY REQUIRED DEWATERING OPERATIONS SHALL BE RESTRICTED AND MAINTAINED ON SITE. PERCOLATION THROUGH TEMPORARY PONDS OR EVAPORATION ARE THE ONLY ALLOWABLE NON-PERMITTED MEANS OF DISPOSAL OF GROUNDWATER. THE CONTRACTOR AT HIS EXPENSE, SHALL PROVIDE TESTING OF GROUNDWATER PER F.D.E.P. GUIDELINES INCLUDING FAC CHAPTER 62-621.300(2). THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A "GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY" FROM F.D.E.P. IF REQUIRED AT HIS EXPENSE.

15. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD, ESCAMBIA COUNTY, AND THE OWNER.

ESCAMBIA COUNTY GENERAL NOTES:

1. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.

2. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.

3. COMPLIANCE OF NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.

5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.

6. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

7. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.

8. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.

9. ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.

10. ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.

11. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

12. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

13. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.

14. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

15. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.

16. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.

17. GRADED AGGREGATE BASE SHALL BE REQUIRED FOR ROADWAYS UNLESS OTHERWISE SHOWN.

18. ALL COMPACTED FILL SHALL BE PLACED IN LAYERS OR LIFTS NOT MORE THAN 12" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.

19. MAINTENANCE OF TRAFFIC AS PER FDOT.

20. ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS. ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED.

21. ALL EXISTING MAILBOXES SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK (OR DECORATIVE) MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK (OR DECORATIVE) MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.

22. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.

23. WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(1), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.

24. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.

25. IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.

26. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH F.S. 872.05.

27. CONTRACTOR SHALL OBTAIN COUNTY APPROVED CHANGE ORDER PRIOR TO PERFORMING ANY ADDITIONAL WORK.

28. ALL SIDEWALKS, SHARED PATH WALKWAYS, AND CURB RAMPS ARE TO BE BUILT TO ADA STANDARDS USING THE LATEST EDITION OF THE DESIGN STANDARDS PARK ADA REQUIREMENTS AND PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

29. THE CONTRACTOR IS CAUTIONED THAT MOISTURE SENSITIVE SOILS ARE ANTICIPATED TO BE ENCOUNTERED ON THIS PROJECT. THE CONTRACTOR IS DIRECTED TO THE REPORT OF GEOTECHNICAL EXPLORATION AND SECTION 2300 OF THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STOCKPILING MOISTURE SENSITIVE SOILS IN A MANNER THAT IS CONDUCIVE TO PROPER "WORKING" OF THE MATERIAL TO PROMOTE OPTIMUM MOISTURE CONTENT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR FAILURE TO PROPERLY STORE, SCARIFY, AND MANAGE THESE SOILS.

30. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD, ESCAMBIA COUNTY, AND THE OWNER. ANY DEVIATIONS MAY RESULT IN DELAYS IN OBTAINING A CERTIFICATE OF OCCUPANCY.

31. THE OWNER OR HIS AGENT SHALL ARRANGE/ SCHEDULE WITH THE COUNTY A FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS AT 850-595-3472 (ESCAMBIA COUNTY). "AS-BUILT" CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/APPROVAL.

32. THIS SET OF PLANS IS FOR THE CIVIL CONSTRUCTION PORTIONS OF THE PROJECT. THE CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH ARCHITECTURAL PLANS FOR BUILDING INTERFACES.

33. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY.

34. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES

OF CONSTRUCTION AND TAKE ADEQUATE STEPS TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.

35. CONTRACTOR SHALL RE-SHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND PRIOR TO THE REQUEST FOR A FINAL INSPECTION.

36. THE ENGINEER OF RECORD SHALL PROVIDE TO ESCAMBIA COUNTY "AS-BUILT" RECORD DRAWINGS FOR VERIFICATION AND APPROVAL ONE (1) WEEK PRIOR TO REQUESTING A FINAL INSPECTION AND CERTIFICATE OF OCCUPANCY, OR PROVIDE "AS-BUILT" CERTIFICATION THAT THE PROJECT CONSTRUCTION ADHERES TO THE PERMITTED PLANS AND SPECIFICATIONS. THE "AS-BUILT" CERTIFICATION OR RECORD DRAWINGS MUST BE SIGNED, SEALED AND DATED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER.

37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE BUFFERS AND STORMWATER FACILITIES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE OWNER. ALL DISTURBED AREAS SHALL BE RETURNED TO EQUAL OR BETTER CONDITION.

38. THE OWNER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORM WATER SYSTEM.

39. ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE CONTRACTOR PRIOR TO FINAL AS-BUILT SIGN-OFF FROM THE COUNTY.

40. PRIOR TO CONSTRUCTION, A SEPARATE BUILDING INSPECTION DEPARTMENT PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALLS HIGHER THAN TWO (2) FEET.

41. ALL PROPOSED SIDEWALKS, CURB-RAMPS, AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADDITION OF THE ADA STANDARDS, ESCAMBIA COUNTY DESIGN STANDARDS, AND THE PROWAG.

HAZARDOUS MATERIALS NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH LOCAL STATE AND FEDERAL REGULATIONS REGARDING TESTING FOR AND DISPOSAL OF HAZARDOUS MATERIALS DURING DEMOLITION.

2. HAZARDOUS MATERIAL MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE", "HAZARDOUS SUBSTANCE" POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 USC SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 USC SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL, OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYL (PCB'S), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.

3. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TEST TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED HEREIN) IN COMPLIANCE WITH ALL CURRENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.

4. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE, OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE, OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH A SPILL ON PERSONS OR PROPERTY.

PROJECT SAFETY NOTES:

1. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR THE SAFETY OF THE WORK AND ANY AND ALL DAMAGES ARISING FROM THE CONSTRUCTION SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ASSURING THAT THE CONSTRUCTION MATERIALS AND METHODS ARE COMPLIANT WITH ALL APPLICABLE LOCAL, STATE OR FEDERAL SAFETY CODES, RULES, OR REQUIREMENTS.

2. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER THIS ACT. THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.

3. THE CONTRACTOR SHALL PROTECT AND KEEP THE OWNER (INCLUDING THEIR AGENTS, CONSULTANTS, AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, ETC. RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED.

EXCELLENCE IN ENGINEERING SERVICE

8874 Turkey Bluff Road

Neptune Beach, Florida 32562

850-286-1111

www.eric-engineers.com

CERTIFICATE OF AUTHORIZATION OF SIGNATURE

ERIC ENGINEERS

STATE OF FLORIDA

PROFESSIONAL ENGINEER

DATE: 5/23/2023

TIME: 14:35:23

DRAWN BY: END

DATE: MARCH 2021

DESIGNED BY: DEL

PROJECT MANAGER: NICOLAS CHAUVIN

CHECKED BY: WFLH

DISTRICT: 2

DATE: 5/23/2023

TIME: 14:35:23

DRAWING NUMBER

C-001

PROJECT NUMBER

170001-004

SURVEY NUMBER

RBA ESC CNTY 2019.013/L-4903

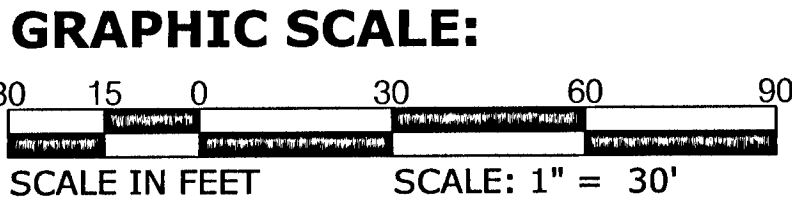
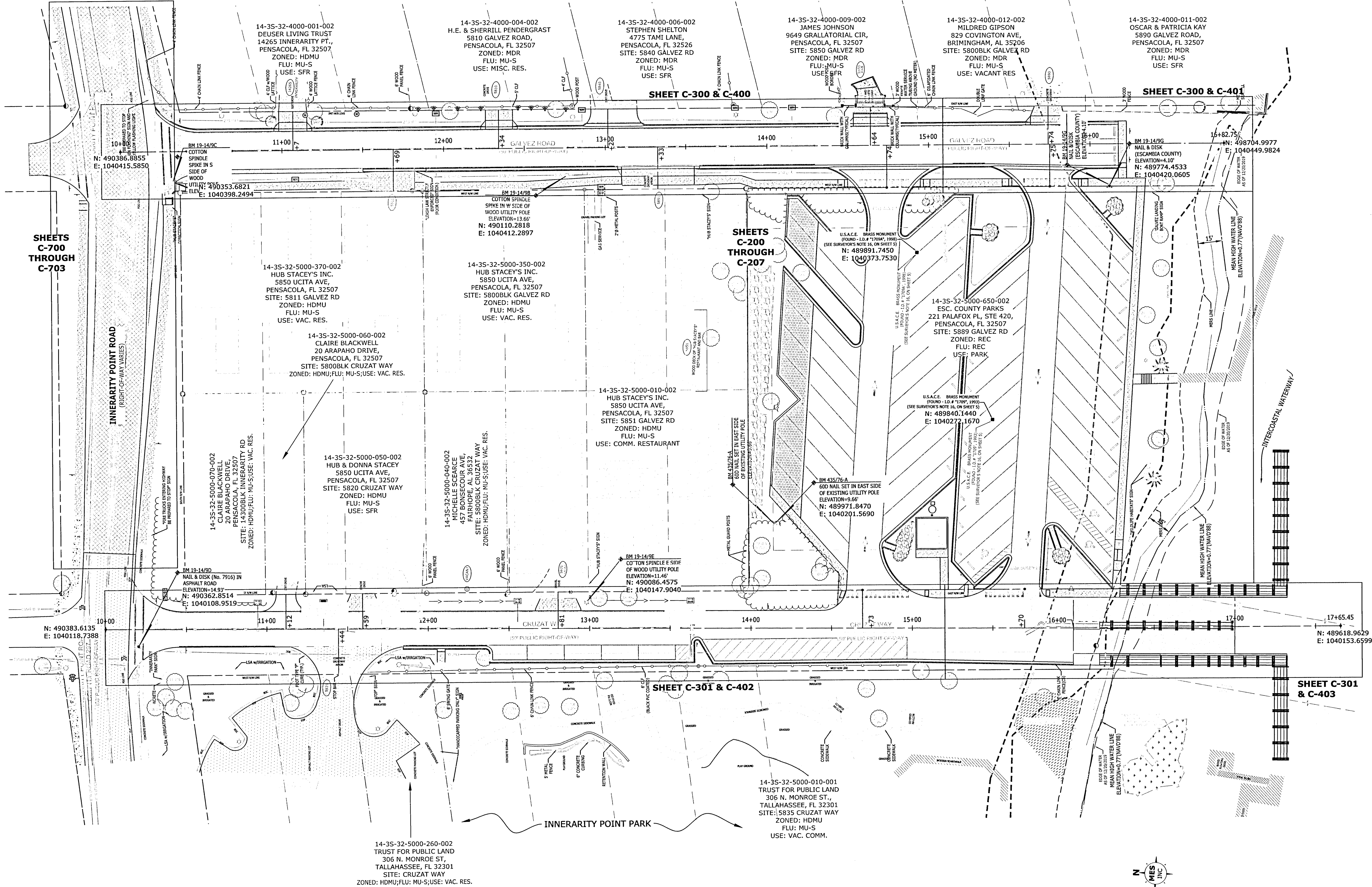
SHEET

01 OF 61

GALVEZ LANDING BOAT RAMP IMPROVEMENTS

PROJECT NOTES

PHASE	REVIEW	SIGNATURE:	ORIGINATOR (RP)		DATE		ORIGINATOR (QR)		DATE		VERIFICATION, CHECKER (QR)		DATE	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)				CHECKER (RP)				REMARK INCORPORATION (Blue Highlighter)			
							CHANGE INCORPORATION (Yellow Highlighter)				ORIGINATOR VERIFICATION (Correct (Pink Highlighter))			



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5514 Turkey Bluff Road, Suite 100, Jacksonville, FL 32217

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MUNICIPAL

ENGINEERING

DESIGNED BY: DEL

DRAWN BY: EMD

CHECKED BY: WYJ

DATE: MARCH 2021

PROJECT MANAGER: NICOLAS CHAVIN

DISTRICT: 2

SERIAL: 14-35-32V

CERTIFICATE OF AUTHORIZATION: 0000000000

STATE OF FLORIDA

DATE OF EXPIRATION: 12/31/2021

DRAWING NUMBER: C-100

PROJECT NUMBER: 170001-004

SURVEY NUMBER: 2019.013/L-4903

SHEET: 04 OF 61

Galvez Landing Boat Ramp Improvements

Overall Plan, Layout & Key Sheet

(SITE IMPROVEMENTS)

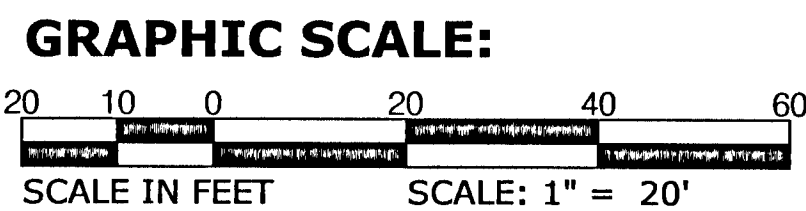
BOUL-BATTLE AND ASSOCIATES (RBA) SURVEY NOTES:

1. NORTH AND THE SURVEY DATUM SHOWN HEREON IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (FLORIDA NORTH ZONE), NORTH AMERICAN DATUM OF 1983 (NAD83) (2011): (EPOCH 2010.0000) HAVING A BEARING OF 108 DEGREES 53 MINUTES 22.00 SECONDS, LAST POINT OF THE SOUTH RIGHT-OF-WAY(RW) LINE OF INNERARY POINT ROAD (100' ROW); AND WERE DERIVED UTILIZING A GLOBAL POSITIONING SYSTEM (GPS) TOPCON HIPER II GEODETIC DUAL FREQUENCY RECEIVER. THE RECEIVER WAS UTILIZED IN A REAL-TIME KINEMATIC (RTK) MODE UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION FLORIDA PERMANENT REFERENCE NETWORK (FRN), FLORIDA'S GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) REFERENCE STATION NETWORK; COPY OF BOUNDARY AND TOPOGRAPHIC SURVEY OF THE ESCAMBIA COUNTY GALVEZ AND CRUZAT WAY BOAT RAMP PARCEL SURVEY AS PERFORMED BY ESCAMBIA COUNTY ENGINEERING DEPARTMENT, DRAWING NUMBER 1983, LAST REVISED 06/25/2018, COPY OF PLAT OF GULF BEACH HEIGHTS AS RECORDED IN DEED BOOK 94, AT PAGE 425, OF THE PUBLIC RECORDS OF ESCAMBIA COUNTY, FLORIDA; COPY OF PLAT OF GULF BEACH HEIGHTS AS RECORDED IN DEED BOOK 94, AT PAGE 623, OF SAID PUBLIC RECORDS; COPY OF PLAT OF GULF BEACH HEIGHTS AS RECORDED IN DEED BOOK 96, AT PAGE 427, OF SAID PUBLIC RECORDS; COPY OF SUBDIVISION OF INNERARITY HEIGHTS AS RECORDED IN DEED BOOK 102, AT PAGE 172 OF SAID PUBLIC RECORDS; COPY OF MAP OF SECTION 14, TOWNSHIP 3 SOUTH, RANGE 32 WEST, ESCAMBIA COUNTY, FLORIDA, AS RECORDED IN DEED BOOK 102, AT PAGE 308 OF SAID PUBLIC RECORDS; DEEDS OF RECORD AND EXISTING FIELD MONUMENTATION.
2. NO TITLE SEARCH, TITLE OPINION OR ABSTRACT WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
3. ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD88) AND ARE REFERENCED TO THE BENCHMARK 43576-A AS SHOWN ON PREVIOUS SURVEY BY ESCAMBIA COUNTY, FLORIDA ENGINEERING DEPARTMENT, DRAWING NUMBER L-9003, REVISED 06/25/2018, HAVING AN ELEVATION OF 9.66 FEET (REFERENCED TO ESCAMBIA COUNTY GNSS REFERENCE STATION E4130, HAVING A PUBLISHED ELEVATION OF 4.63(NAD88)).
4. THIS IS A TOPOGRAPHIC SURVEY ONLY. IN THE COURSE OF THIS SURVEY AN EFFORT WAS MADE TO ENSURE THE SURVEY LIMITS COINCIDED WITH THE DEED(S) OF RECORD FOR THE ADJACENT PROPERTIES. SUBSEQUENTLY, BOUNDARY MONUMENTATION APPARENTLY REPRESENTING THE RIGHT-OF-WAYS & ADJUTING PARCELS WERE RECOVERED TO ENSURE THE TOPOGRAPHIC SURVEY COVERS THE SUBJECT PROPERTY AS SHOWN HEREON.
5. IT IS THE OPINION OF THE UNDERSIGNED SURVEYOR & MAPPER THAT THE PORTION OF LAND KNOWN HEREON IS IN ZONE "A", SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD WITH A BASE FLOOD ELEVATION OF 5.0 FEET, BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR ESCAMBIA COUNTY, FLORIDA, COMMUNITY PANEL NUMBER 12033C0505G, EFFECTIVE DATE OF SEPTEMBER 29, 2006.
6. VISIBLE UTILITIES WITHIN THE SURVEY LIMITS ARE AS SHOWN HEREON. SUBSURFACE UTILITY LINES WERE LOCATED AND ARE SHOWN AS PER THE RESPECTIVE UTILITY COMPANY'S SPOTTING (PAINTED SPOTS AND FLAGGED LINES). THE FOLLOWING SUNSHINE ONE CALL TICKET WAS ISSUED FOR THIS PROJECT:

7. THE MEAN HIGH WATER LINE (MHWL) AS SHOWN HEREON WAS ESTABLISHED IN ACCORDANCE WITH F.S. CHAPTER 177.25-177.40 AS PER INSTRUCTIONS AND REFERENCE DATA PROVIDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF SURVEYING AND MAPPING.
8. GRAPHIC SYMBOLISM FOR FEATURES SUCH AS MONUMENTATION, FENCES, TREES, TREE LINES, UTILITIES ETCETERA MAY BE EXAGGERATED IN SIZE FOR CLARITY PURPOSES. DIMENSIONS TO EXAGGERATED FEATURES WILL SUPERSEDE SCALED MEASUREMENTS.
9. THE ENVIRONMENTAL JURISDICTIONAL WETLANDS LINES AND SUBMERGED AQUATIC VEGETATION AS SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY WETLAND SCIENCES, INC. (WSI) 1829 BAINBRIDGE AVE., PENSACOLA, FLORIDA, 850 453-4700.
10. MEASUREMENTS AS SHOWN HEREON WERE MADE TO UNITED STATES STANDARDS AND ARE EXPRESSED IN DECIMAL OF FEET.
11. THIS SURVEY DOES NOT REPRESENT NOR GUARANTEE OWNERSHIP.
12. VISIBLE ENCROACHMENTS ARE AS SHOWN HEREON.
13. VISIBLE IMPROVEMENTS ARE AS SHOWN HEREON.
14. VISIBLE UTILITIES ARE AS SHOWN HEREON.

DRAWING NUMBER	C-200	
PROJECT NUMBER	170001-004	
SURVEY NUMBER	RBA	ESC CNTY
	2019.013/L-4903	

SHEET 06 OF 61



LOT A, BLOCK 2, GULF BEACH HEIGHTS SUDIVISION AS RECORDED IN PLAT DEED BOOK 94 AT PAGE 623 OF THE PUBLIC RECORDS OF ESCAMBIA COUNTY, FLORIDA. ALL LYING AND BEING IN SECTION 14, TOWNSHIP 3 SOUTH, RANGE 32 WEST, ESCAMBIA COUNTY, FLORIDA AND CONTAINING 1.64 ACRES MORE OR LESS.

14-3S-32-5000-650-002
ESC. COUNTY PARK
221 PALAFOX PL, STE 420,
PENSACOLA, FL 32502
SITE: 5889 GALVEZ RD
ZONED: REC
FLU: REC
USE: FOREST PARK RECREATION
48 EXISTING PARKING SPACES

U.S.A.C.E. BRASS MONUMENT
(FOUND - I.D. # "1709A", 1998)-
(SEE SURVEYOR'S NOTE 16, ON SHEET 5)

U.S.A.C.E. BRASS MONUMENT
(FOUND - I.D.# "1709", 1993)-
SURVEYOR'S NOTE 16, ON SHEET 5)

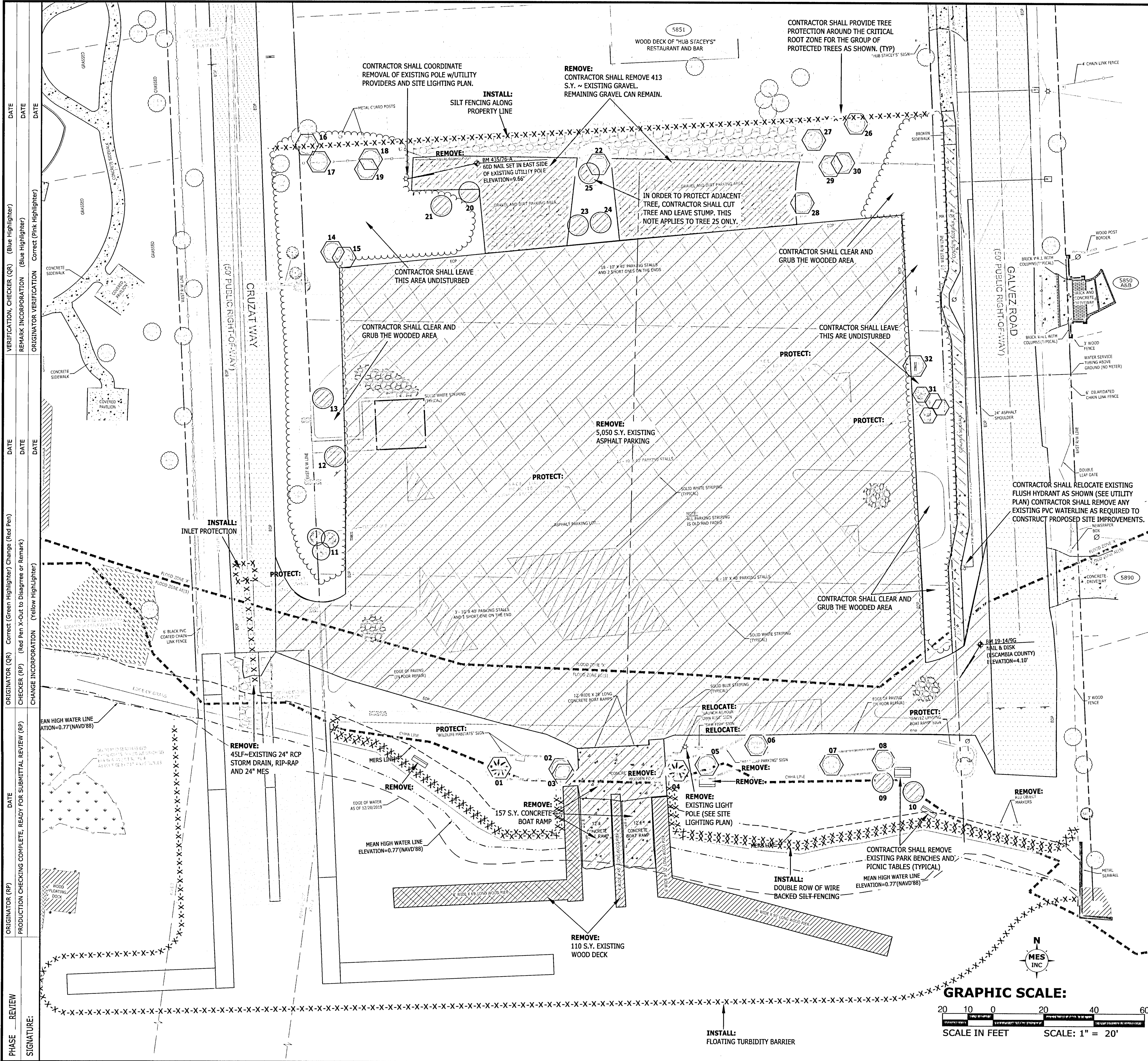
**SOLID WHITE STRIPING
(TYPICAL)**

**NOTE:
ALL PARKING STRIPS
IS OLD AND FADED**

BM 19-14/9G
NAIL & DISK
(ESCAMBIA COU
ELEVATION=4.1

PHASE		REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (QR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION, CHECKER (QR)	(Blue Highlighter)	DATE
		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL	REVIEW (RP)	CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	DATE	ORIGINATOR VERIFICATION	Correct (pink Highlighter)	DATE	
				CHANGE INCORPORATION	(Yellow Highlighter)	DATE				

M:\2017\170001-004 Galvez Boat Ramp (Plans and Specs)\Dwg\Sheets\40 Existing Conditions.dwg, 05, 3/3/2021 4:13:56 PM



- DEMOLITION AND CLEARING NOTES:**
- TREES SLATED FOR PROTECTION SHALL BE MARKED AND TREE PROTECTION BARRICADES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES. NO PROTECTED TREES SHALL BE REMOVED, DESTRUCTIVELY DAMAGED, MUTILATED, RELOCATED, DISFIGURED, DESTROYED, CUT DOWN OR EXCESSIVELY PRUNED DURING CONSTRUCTION ACTIVITIES.
 - NO GRADING OR CLEARING BY, OR STORAGE OF HEAVY EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE OF PROTECTED TREES OR WITHIN ENVIRONMENTALLY SENSITIVE AREAS.
 - TREE PROTECTION BARRICADES OR EQUIVALENT PROTECTIVE MEASURES WILL BE CONSTRUCTED ACCORDING TO THE LOCAL JURISDICTION'S CRITERIA FOR TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.
 - CONTRACTOR SHALL TAKE EXTREME CARE TO REMOVE ONLY TREES AND VEGETATION ABSOLUTELY NECESSARY FOR THE CONSTRUCTION OF THIS WORK. LANDSCAPE SHRUBS AND TREES THAT ARE REMOVED AS PART OF THIS WORK, SHALL BE REPLANTED AFTER CONSTRUCTION, IF POSSIBLE. IF LANDSCAPE SHRUBS OR TREES CANNOT BE REPLANTED, THE CONTRACTOR SHALL PROVIDE NEW LANDSCAPE SHRUBS OR TREES EQUAL TO OR BETTER THAN THOSE REMOVED IN SIZE AND NATURE.
 - ALL TREE PROTECTION MEASURES AND BARRICADES SHALL BE INSTALLED AROUND EACH PROTECTED TREE OR GROUPING OF PROTECTED TREES SHOWN TO REMAIN ON SITE AND PRIOR TO ANY SITE DISTURBANCE. TREE PROTECTION MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL PROJECT IS COMPLETE AND THE SITE IS STABILIZED.
 - THE CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES THAT ARE TO BE SAVED, WHETHER SHOWN ON THE PLANS OR DESIGNATED IN THE FIELD. NO GRUBBING SHALL OCCUR WITHIN EIGHT (8) FEET OF THE TRUNK.
 - ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL.
 - PROPOSED WORK WITHIN EIGHT (8) FEET OF SPECIMEN TREES TO REMAIN, WILL REQUIRE THE ADVANCED PRE-TREATMENT OF EACH IMPACTED TREE BY A QUALIFIED ARBORIST OR THE LANDSCAPE ARCHITECT TO MINIMIZE THE POTENTIALLY ADVERSE IMPACTS OF CONSTRUCTION. HAND DIGGING MAY BE REQUIRED WITHIN THE CRITICAL ROOT ZONE OF PROTECTED TREES.
 - IN AREAS REQUIRING FILL MATERIAL, THE CONTRACTOR SHALL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SOD, HEAVY GROWTH OF GRASS, DECAYED VEGETATION MATTER, RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS PLACED. IMMEDIATELY PRIOR TO THE PLACING OF FILL MATERIAL, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED, SHALL BE SCARIFIED IN A DIRECTION APPROXIMATELY PARALLEL TO THE AXIS OF FILL. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE AREA PRIOR TO THE PLACEMENT OF FILL.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CLEARLY DESIGNATE THE LIMITS OF CONSTRUCTION ON-SITE. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE LIMITS OF CONSTRUCTION. IN AREAS WHERE NO WORK IS PROPOSED THE CONTRACTOR SHALL PROTECT THE TOPOGRAPHY, THE SOIL, AND THE VEGETATION.
 - WHERE DEMOLITION REQUIREMENTS LEAVE OPEN TRENCHES, PITS OR OTHER VOIDS, PROVIDE CLEAN FILL AND COMPACTION PER THE SPECIFICATIONS, THE GEOTECHNICAL REPORT OR OTHER REQUIREMENTS.
 - REMOVAL OF EXISTING PAVED SURFACES INCLUDES REMOVAL OF EXISTING BASE OR SOIL MATERIALS SUFFICIENTLY TO CONSTRUCT THE NEW SURFACE IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
 - ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL ASPHALT AND CONCRETE SHALL BE SAW CUT AT EDGES TO REMAIN. REMAINING EDGES SHALL BE PROTECTED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS WHILE REMOVING OR REPAIRING ANY EXISTING STORM DRAINS OR SWALES.
 - DEMOLITION WORK SHALL BE COORDINATED WITH EACH PHASE OF THE WORK. DO NOT PROCEED WITH ANY DEMOLITION UNTIL SPECIFICALLY AUTHORIZED BY OWNER.
 - CONTRACTOR SHALL ROUGH IN STORMWATER POND(S) IMMEDIATELY FOLLOWING CLEARING AND PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
 - EXCAVATED MATERIALS (SPOILS) SHALL BE DISPOSED OF AS REQUIRED IN UPLAND AREAS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. IF SPOILS ARE TO BE STORED ON SITE EITHER TEMPORARILY OR PERMANENTLY, THE STORAGE LOCATION SHALL BE AN UPLAND AREA APPROVED BY THE OWNER AND ENGINEER. THE SPOILS SHALL BE PREVENTED FROM ERODING WITH THE USE OF SILT FENCING AND GRASSING AS APPROPRIATE.
 - THESE PLANS SHOW NEW IMPROVEMENTS TO HUB STACEY'S PROPERTY AS PROVIDED BY DAVID W. FITZPATRICK PROFESSIONAL ENGINEER, PA ON FEBRUARY 20, 2020. IT IS ASSUMED THAT THE WORK PROPOSED ON HUB STACEY'S PROPERTY WILL BE COMPLETED PRIOR TO THE WORK PROPOSED ON THIS SET OF PLANS.
 - FOR PROPOSED DEMOLITION WORK WITHIN THE RIGHT-OF-WAY OF CRUZAT WAY AND GALVEZ ROAD (SEE SHEETS C-300 & C-301).
 - IN AREAS WHERE EXISTING VEGETATION IS PROPOSED TO REMAIN UNDISTURBED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY ARBORIST AND THE LANDSCAPING PLANS FOR THINNING, PRUNING AND UNDER BRUSH REMOVAL REQUIREMENT.
 - NO PARKING OF VEHICLES, TRAILERS, BOATS, EQUIPMENT, STOCKPILING OF CONSTRUCTION MATERIALS, PLACEMENT OF MULCH, ROCKS, ETC. WILL BE ALLOWED UNDER THE DRIFLINE OF ALL PROTECTED TREES ONSITE, EXISTING PRESERVED TREES OR TO BE PLANTED ONSITE. TREE AND TREE PROTECTION AREAS SHALL REMAIN IN THEIR NATURAL STATE.

TREE CHART				
TREE NO.	COMMON NAME	DIAMETER AT DBH (Inches)	TO BE REMOVED	DIAMETER REMOVED
1	PALM	12	NO	0
2	LIVE OAK	12	NO	0
3	LIVE OAK	12	NO	0
4	PALM	12	NO	0
5	LIVE OAK	24	NO	0
6	LIVE OAK	24	NO	0
7	LIVE OAK	24	NO	0
8	LIVE OAK	24	NO	0
9	LIVE OAK	24	NO	0
10	POPCORN	6	YES	N/A
11	POPCORN	6	YES	N/A
12	6" OAK CLUSTER	13	YES	13
13	POPCORN	6	YES	N/A
14	LAUREL OAK	12	YES	12
15	LIVE OAK	12	NO	0
16	LAUREL OAK	12	NO	0
17	LAUREL OAK	12	NO	0
18	MAGNOLIA	18	NO	0
19	OAK	18	NO	0
20	LAUREL OAK	12	YES	12
21	LAUREL OAK	12	YES	12
22	LIVE OAK	24	NO	0
23	LIVE OAK	24	YES	DEAD
24	LIVE OAK	24	YES	POOR COND.
25	LIVE OAK	24	YES	24
26	LAUREL OAK	12	NO	0
27	LAUREL OAK	12	NO	0
28	SAND LIVE OAK	24	NO	0
29	MAGNOLIA	18	NO	0
30	MAGNOLIA	18	NO	0
31	8" LIVE OAK CLUSTER	21	NO	0
32	LIVE OAK	6	NO	0

NOTE: THAT TREES LOCATED WITHIN THE GALVEZ OR CRUZAT RIGHT-OF-WAY NORTH OF THE GALVEZ LANDING NORTH PROPERTY LINE ARE NOT INCLUDED IN THIS CHART.

TOTAL INCHES OF DIAMETER REMOVED =	73	CALIPER INCHES
MINIMUM REQUIRED REPLACEMENT DIAMETER =	36.5	CALIPER INCHES
LIMITS OF CONSTRUCTION AREA =	1.63	CALIPER INCHES
REPLACEMENT LIMIT DIAMETER =	41	CALIPER INCHES
(25 CALIPER INCHES PER DEVELOPMENT SITE ACRE DSM 2-5.2(C))		
TOTAL REQUIRED REPLACEMENT DIAMETER =	37	CALIPER INCHES

EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Bluff Road
Neville, Florida 33446
P: (888) 939-5723
F: (888) 939-5723
WWW.EESERVICE.COM

FLORIDA
REGISTERED PROFESSIONAL ENGINEER
No. 12345
Exp. 12/31/2024

FLORIDA
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DESIGNED BY: DEL
CHECKED BY: WYP II
DATE: MARCH 2021
DRAWN BY: EMD
PROJECT MANAGER: NICOLAS CHALVIN
DISTRICT: 2
SECTION / TOWNSHIP / RANGE: 14-35-32W

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TIME: 14:35:32W

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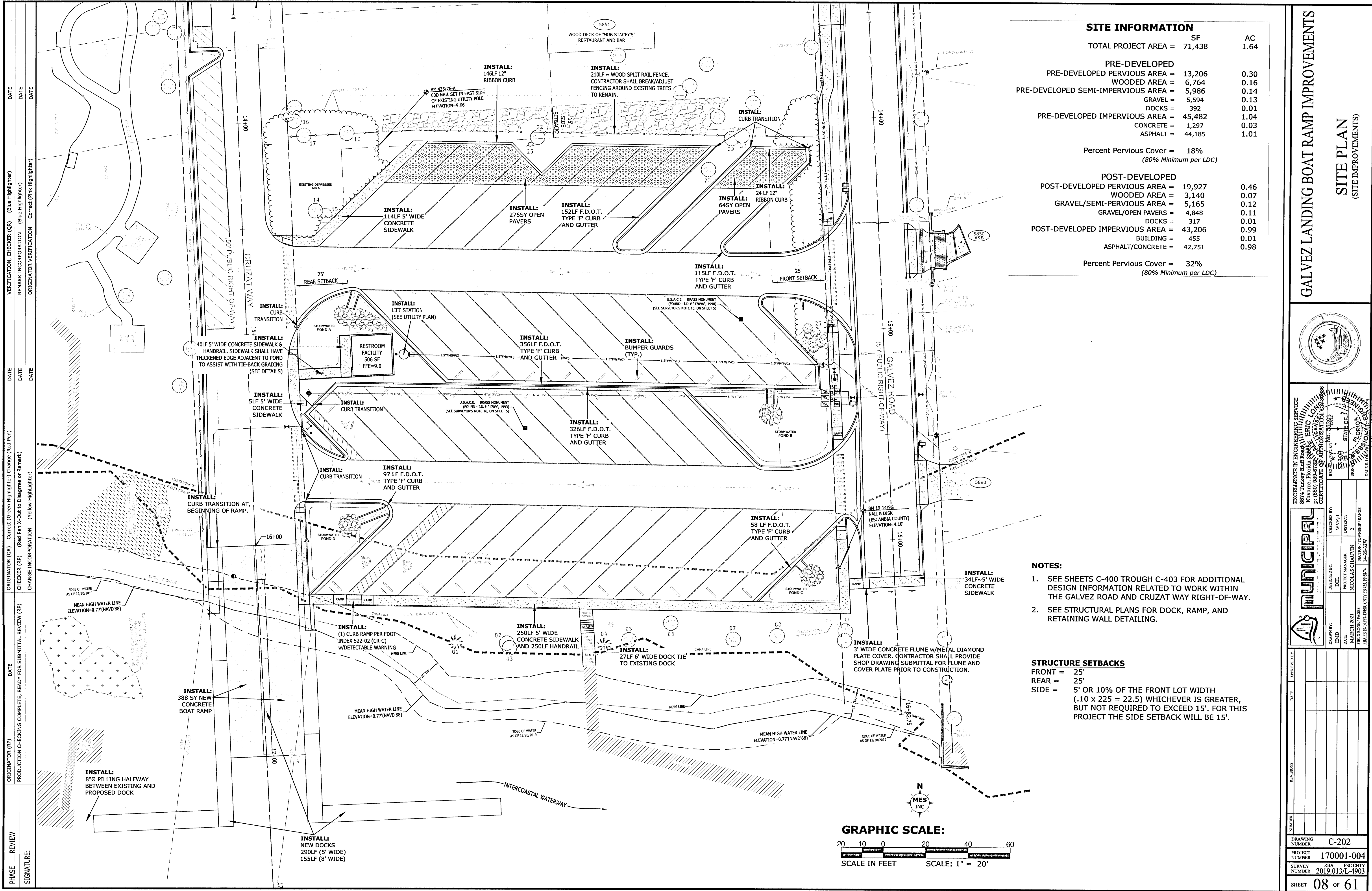
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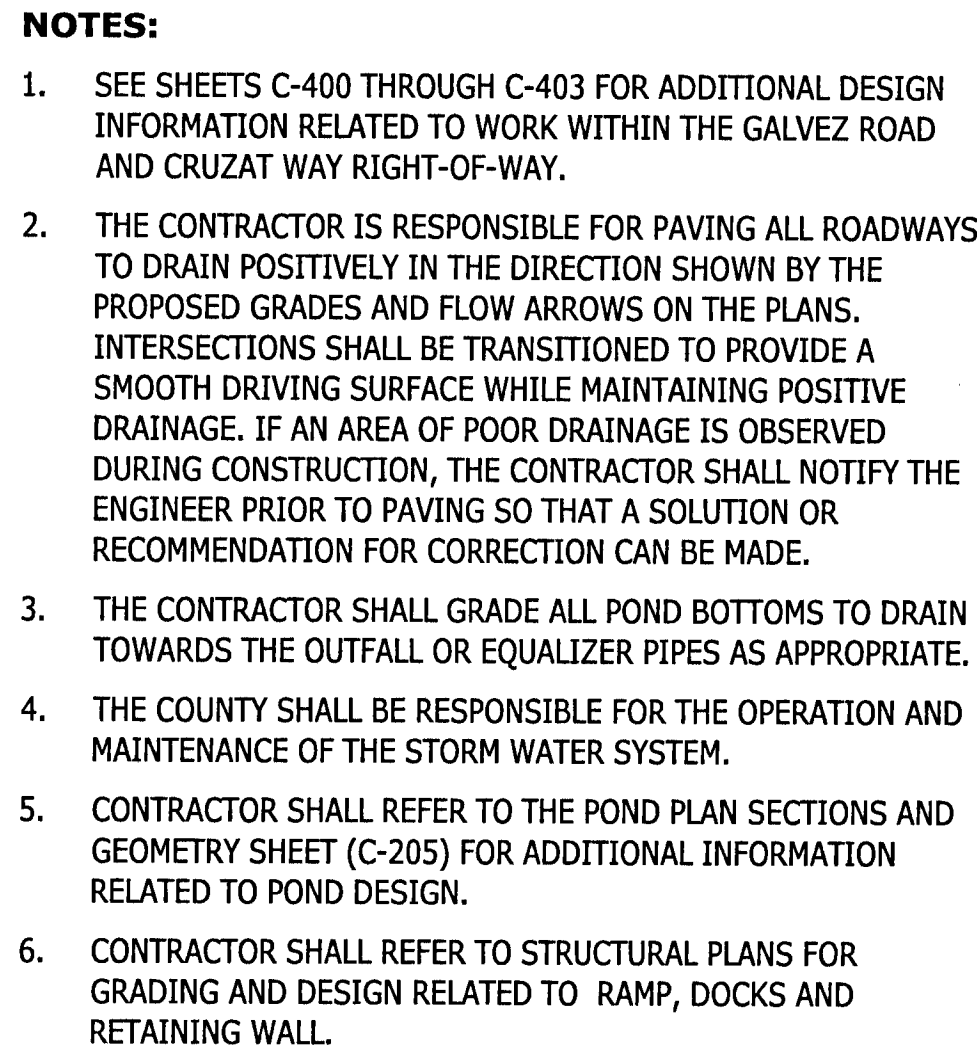
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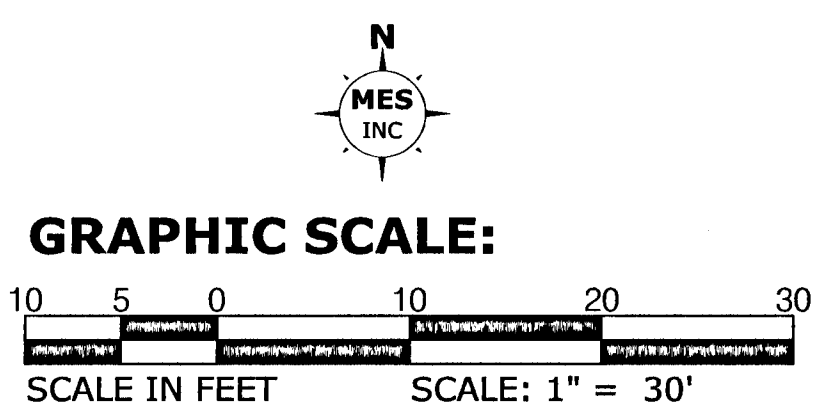
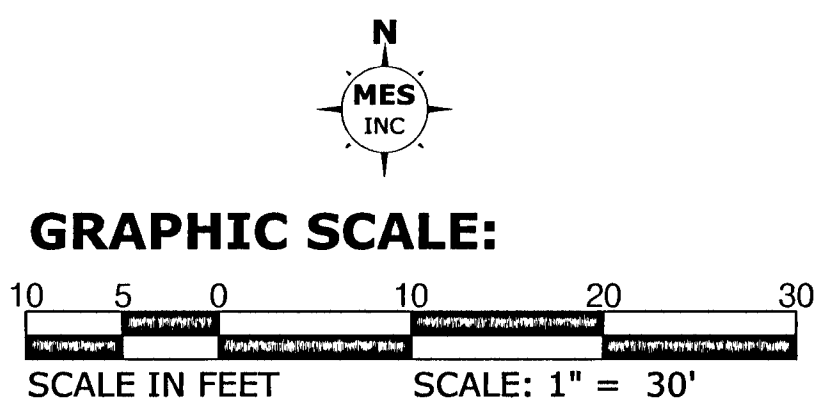
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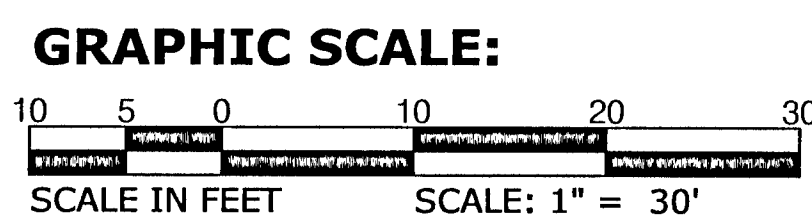
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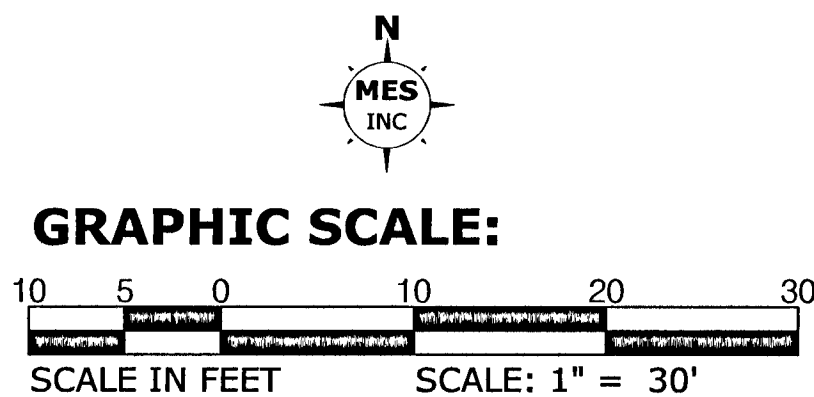
**STORMWATER POND NOTES:**

1. POND BOTTOM AND SIDE SLOPES SHALL BE STABILIZED WITH SOD. SOD SHALL EXTEND BEYOND TOP OF POND A MINIMUM OF FIVE (5) FEET. SOD INSTALLED ON SLOPES STEEPER THAN 3:1 SHALL BE PINNED.





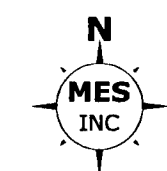
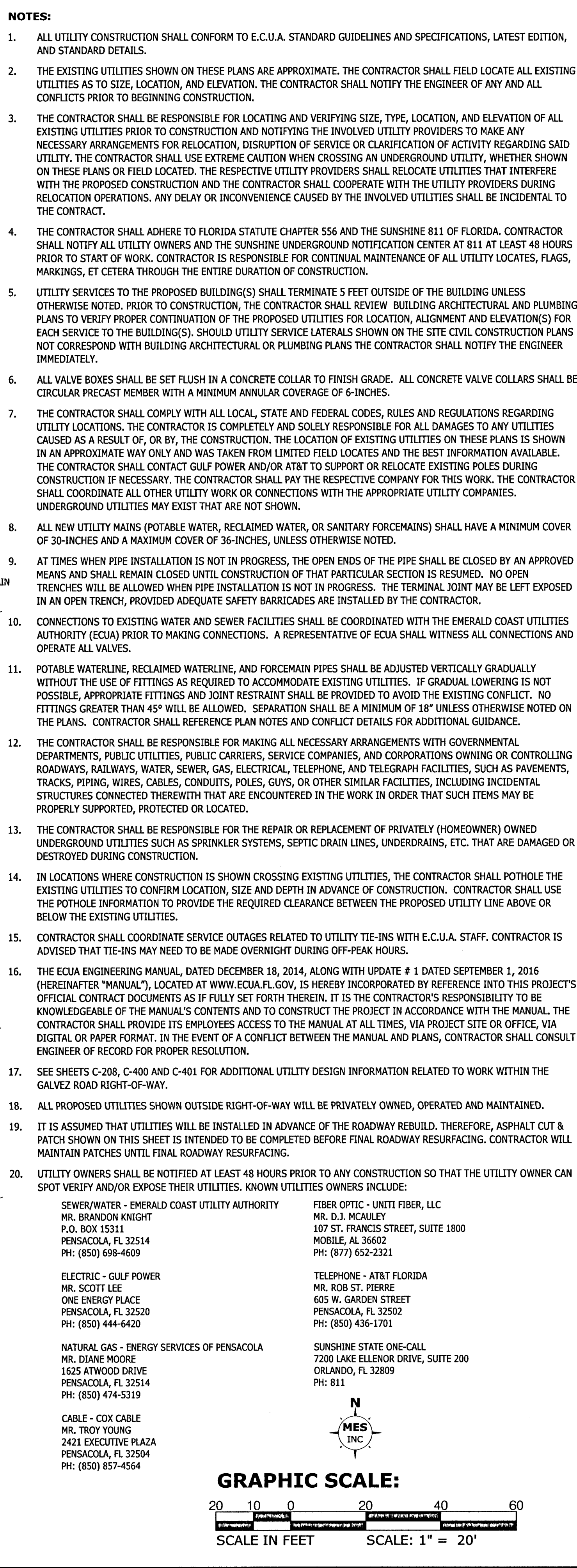
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B2	N489848.4098	E1040406.4098
B3	N489835.2684	E1040407.0560
B4	N489832.3603	E1040387.4934
B5	N489855.1412	E1040357.0077

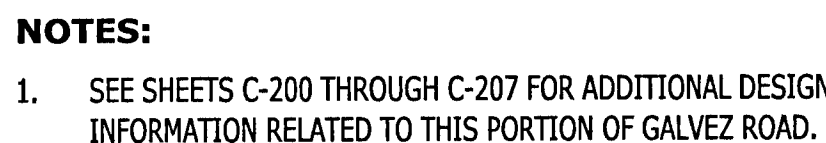


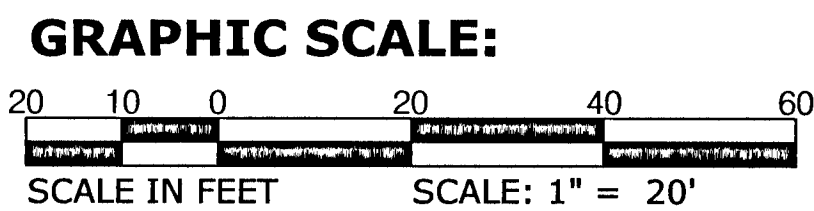
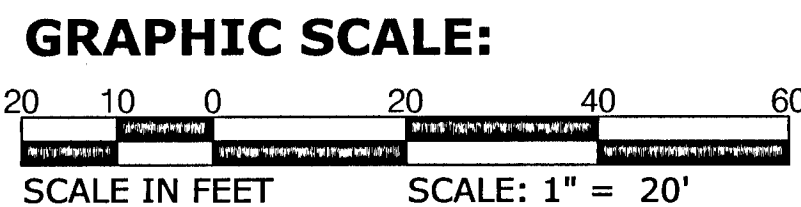


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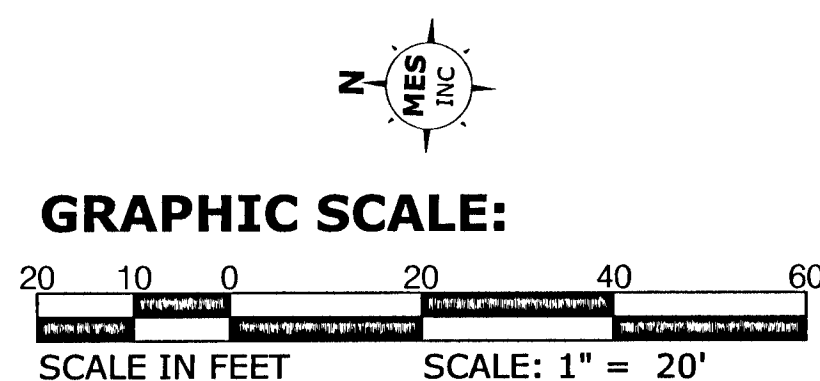
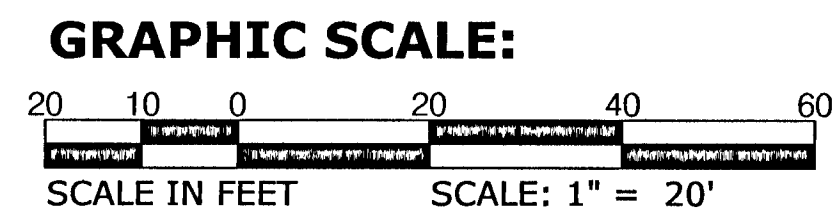
		EXCELLENCE IN ENGINEERING SERVICE 8574 Turkey Bluff Road Navarre, Florida 32568 P: (904) 938-5732 CERTIFICATE OF AUTHORIZATION: CA-35888				GALVEZ LANDING BOAT RAMP IMPROVEMENTS POND GEOMETRY AND SECTIONS (SITE IMPROVEMENTS)	
MUNICIPAL ENGINEERING		CHECKED BY: _____ DESIGNED BY: _____ END: _____ DATE: _____		REG. NO. _____ STATE OF _____ 3933 FLORIDA SIGNATURE: _____ DATE: _____		PROJECT NUMBER: _____ PROJECT MANAGER: _____ DISTRICT: _____ SECTION/TOWNSHIP/RANGE: _____ 2 14-55-21W	
DRAWN BY: _____ END: _____ DATE: _____		DESIGNED BY: _____ DEL: _____ END: _____ DATE: _____		PROJECT MANAGER: _____ DISTRICT: _____ SECTION/TOWNSHIP/RANGE: _____ 2 14-55-21W		PROJECT NUMBER: _____ PROJECT MANAGER: _____ DISTRICT: _____ SECTION/TOWNSHIP/RANGE: _____ 2 14-55-21W	
DRA WING NUMBER: _____ PROJECT NUMBER: _____ SURVEY NUMBER: _____ SHEET _____ OF _____		C-206 170001-004 RRA ESC CNTY 2019.013/L-4903		PROJECT NUMBER: _____ PROJECT MANAGER: _____ DISTRICT: _____ SECTION/TOWNSHIP/RANGE: _____ 2 14-55-21W		PROJECT NUMBER: _____ PROJECT MANAGER: _____ DISTRICT: _____ SECTION/TOWNSHIP/RANGE: _____ 2 14-55-21W	
REVISIONS: _____ DATE: _____ APPROVED BY: _____		REVISIONS: _____ DATE: _____ APPROVED BY: _____		REVISIONS: _____ DATE: _____ APPROVED BY: _____		REVISIONS: _____ DATE: _____ APPROVED BY: _____	





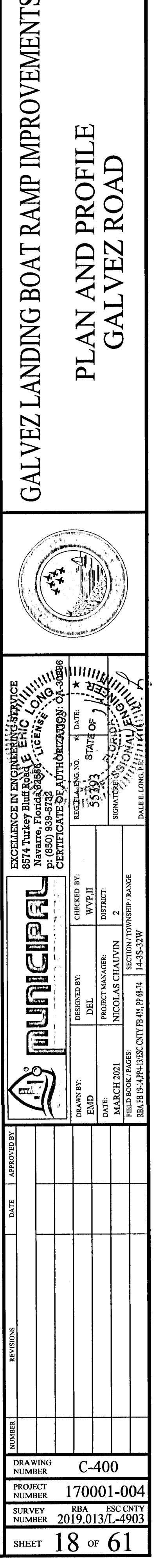


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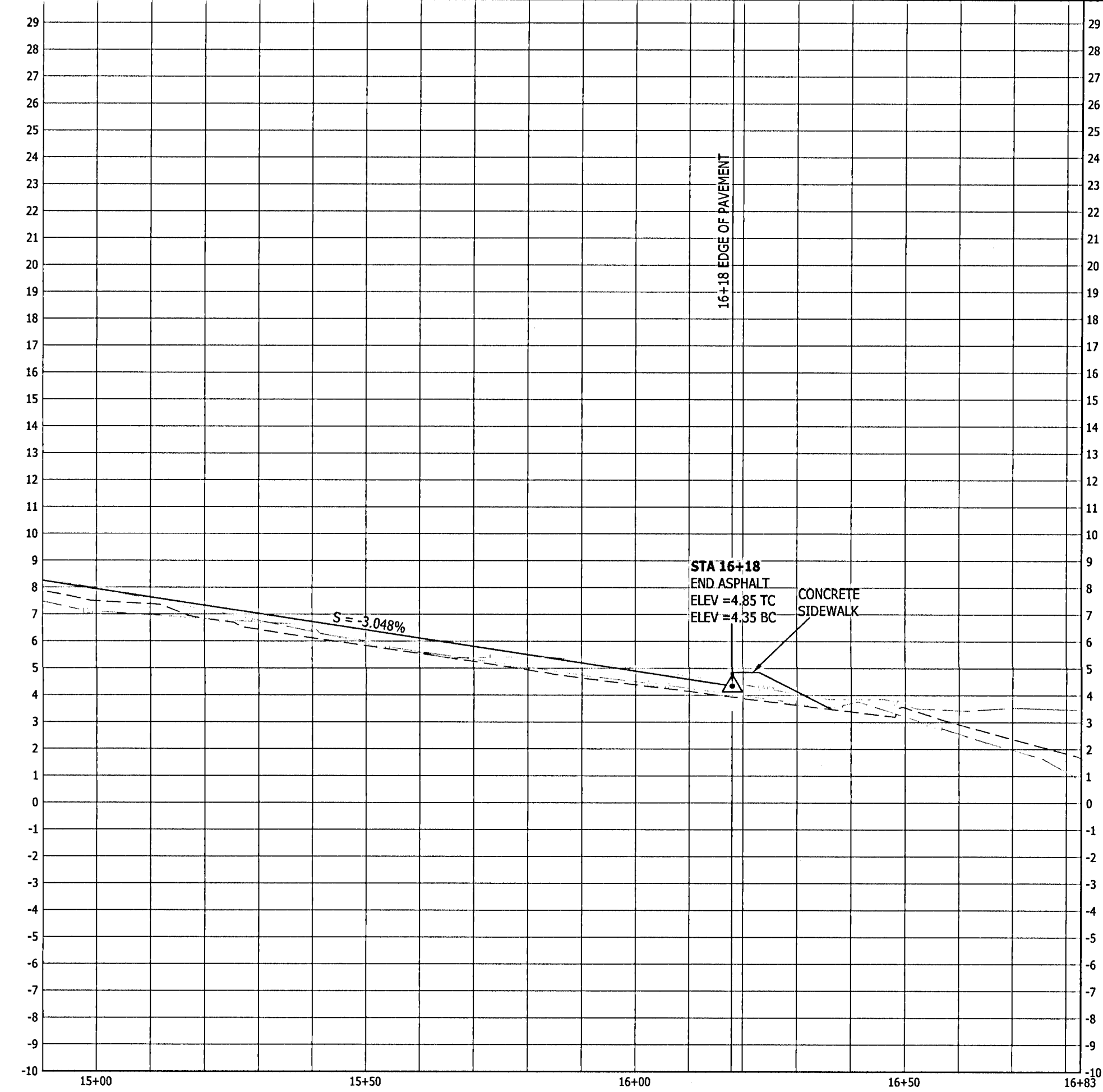


- NOTES:**
1. WHILE NOT SHOWN ON THE PLANS FOR CLARITY, THE CONTRACTOR SHALL INSTALL SILT FENCE WITHIN THE PROJECT LIMITS AS REQUIRED TO CONTROL SEDIMENTATION.
 2. ALL EXISTING MAIL BOXES SHALL BE REPLACED AND RELOCATED (IF REQUIRED) TO THE NEW EDGE OF PAVEMENT PER THE GENERAL NOTES. THE NEW MAILBOX LOCATION SHALL BE COORDINATED WITH THE RESIDENT AND SHALL MEET USPS REQUIREMENTS.
 3. EXISTING WATER METERS THAT ARE DETERMINED TO INTERFERE WITH THE WORK SHALL BE RELOCATED TO THE RIGHT OF WAY LINE. RELOCATION SHALL BE COORDINATED WITH ECUA AND RESIDENT.
 4. THESE PLANS SHOW NEW IMPROVEMENTS TO HUB STACEY'S PROPERTY AS PROVIDED BY DAVID W. FITZPATRICK PROFESSIONAL ENGINEER, PA ON FEBRUARY 20, 2020. IT IS ASSUMED THAT THE WORK PROPOSED ON HUB STACEY'S PROPERTY WILL BE COMPLETED PRIOR TO THE WORK PROPOSED ON THIS SET OF PLANS.
 5. SEE ADDITIONAL DEMOLITION AND EROSION CONTROL NOTES FROM SHEET C-201.

DRAWING NUMBER		C-301	
PROJECT NUMBER		170001-004	
SURVEY NUMBER	R19A	ESC CNTY	2009.013/L-4903
SHEET	17	OF	61



PHASE _____ REVIEW					
ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION, CHECKER (QR) (Blue Highlighter)
PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)					
		CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	DATE	REMARK INCORPORATION (Blue Highlighter)
SIGNATURE:					
		CHANGE INCORPORATION	(Yellow Highlighter)	DATE	ORIGINATOR VERIFICATION Correct (Pink Highlighter)



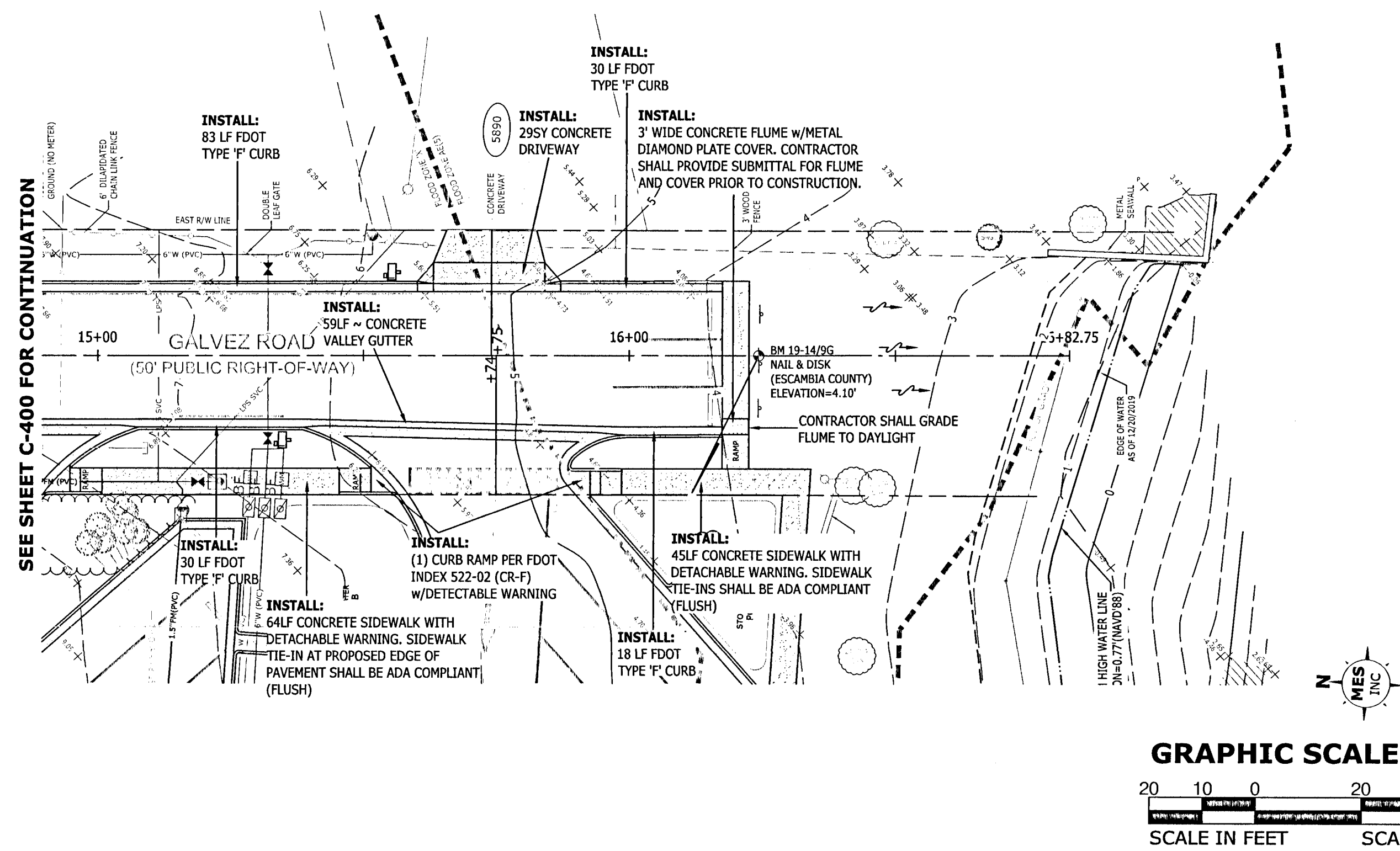
LEGEND:

EXISTING CENTERLINE GRADE -----

EXISTING 25' O/S LEFT GRADE ----- LEFT -----

EXISTING 25' O/S RIGHT GRADE ----- RIGHT -----

PROPOSED CENTERLINE GRADE =====

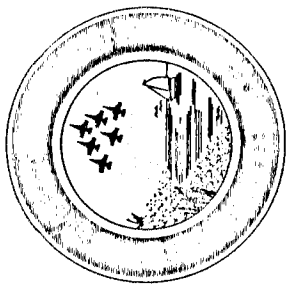
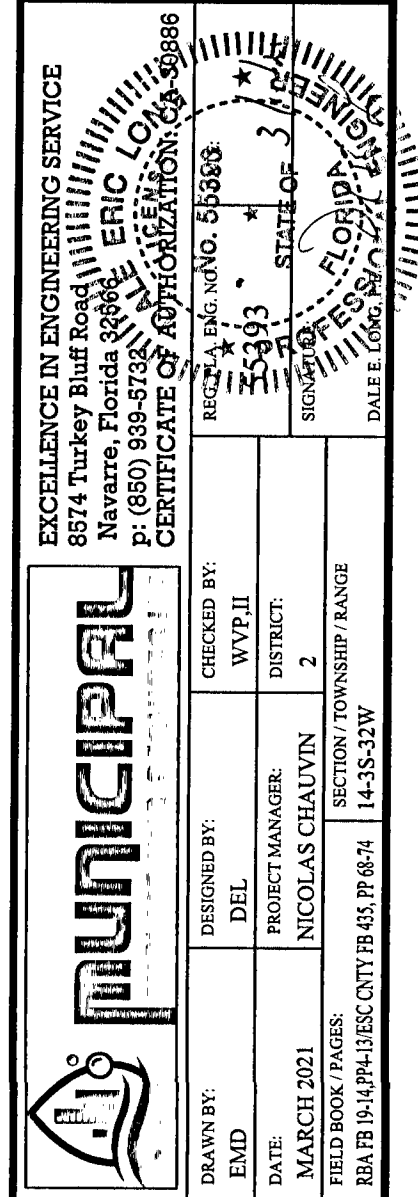


- NOTES:**
1. SEE SHEETS C-200 THROUGH C-207 FOR ADDITIONAL DESIGN INFORMATION RELATED TO THIS PORTION OF GALVEZ ROAD.
 2. CONTRACTOR SHALL REFER TO SIDEWALK GRADING SHOWN ON SHEET C-203.

PROFILE

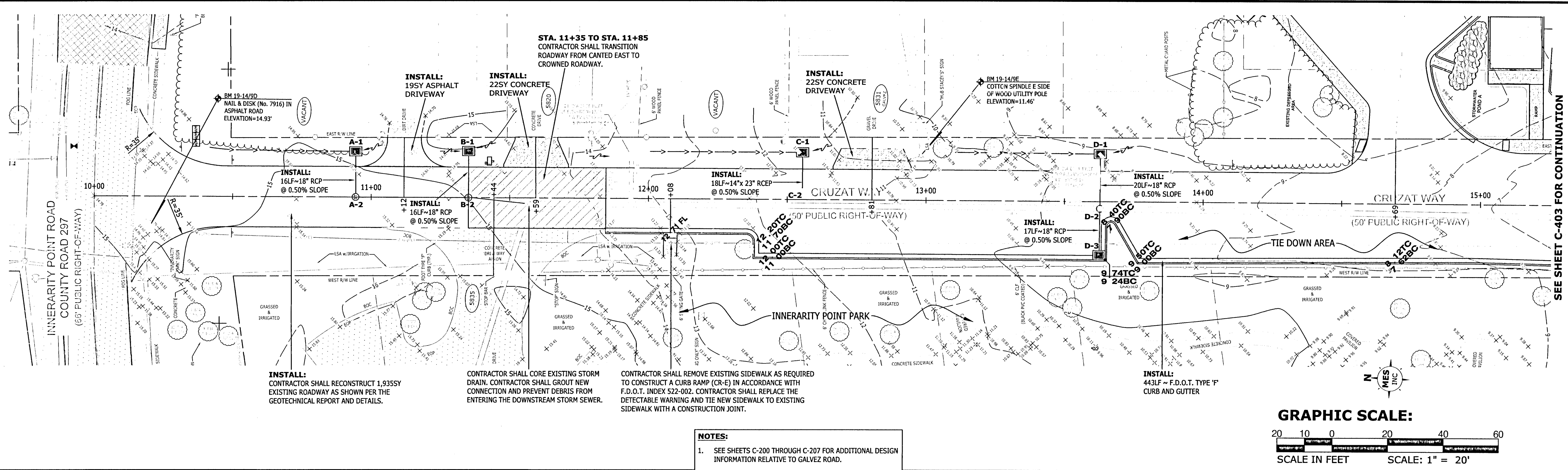
SCALE: HOR.: 1" = 20'
VER.: 1" = 4'

DRAWING NUMBER	C-401
PROJECT NUMBER	170001-004
SURVEY NUMBER	RBA ESC CNTY 2019.013/L-4903
SHEET	19 OF 61

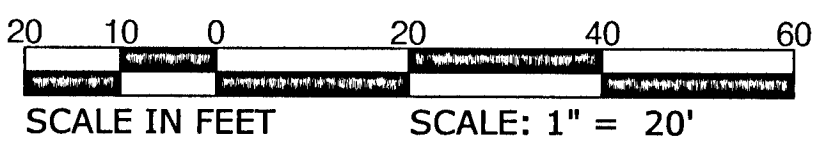


PLAN AND PROFILE GALVEZ ROAD

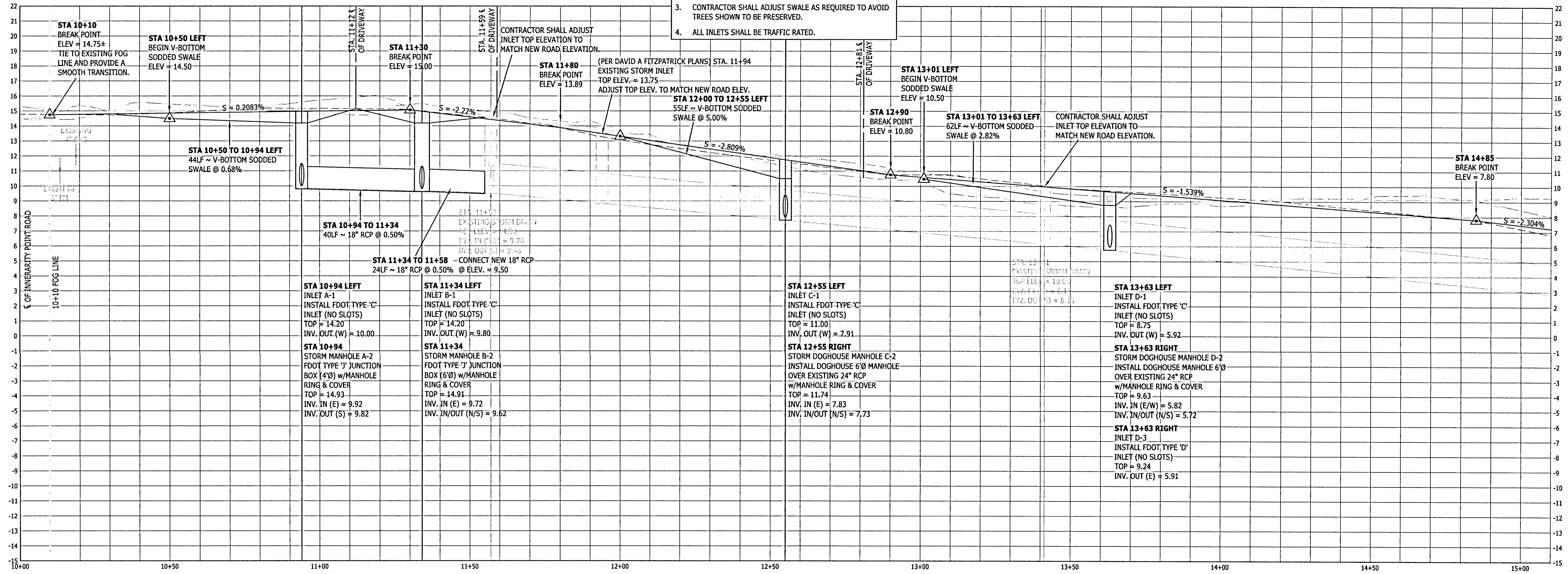
PHASE	REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	CHECKER (RP)	DATE	ORIGINATOR (QR)	CHECKER (QR)	DATE	VERIFICATION, CHECKER (QR)	DATE	REMARK INCORPORATION	DATE	ORIGINATOR VERIFICATION	DATE	SIGNATURE:



GRAPHIC SCALE:



- NOTES:
- SEE SHEETS C-200 THROUGH C-207 FOR ADDITIONAL DESIGN INFORMATION RELATIVE TO GALVEZ ROAD.
 - CONTRACTOR SHALL REFER TO SIDEWALK GRADING SHOWN ON SHEET C-203.
 - CONTRACTOR SHALL ADJUST SWALE AS REQUIRED TO AVOID TREES SHOWN TO BE PRESERVED.
 - ALL INLETS SHALL BE TRAFFIC RATED.



LEGEND:
EXISTING CENTERLINE GRADE
EXISTING 25' O/S LEFT GRADE
EXISTING 25' O/S RIGHT GRADE
PROPOSED CENTERLINE GRADE

PROFILE
HOR.: 1" = 20'
SCALE: VER.: 1" = 4'

GALVEZ LANDING BOAT RAMP IMPROVEMENTS

PLAN AND PROFILE

CRUZAT WAY

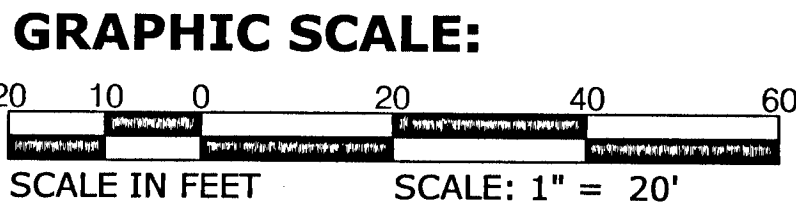
EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Trail Road
Navarre, Florida 32566
P: (850) 938-9735
F: (850) 938-9735
E: info@ericsmithinc.com
www.ericsmithinc.com

PROJECT INFORMATION

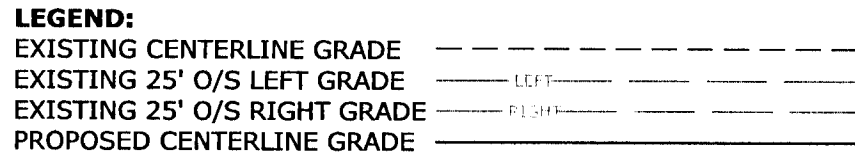
PROJECT NO.: 170001-004
SHEET NO.: 20 OF 61
DATE: 03/03/2021
PROJECT MANAGER: NICHOLAS CHAUVIN
SECTION: TOWNSHIP RANGE
R14 S15 E14 R15 S15 E14

DRAWING INFORMATION

DRAWING NUMBER: C-402
PROJECT NUMBER: 170001-004
SURVEY NUMBER: 2019.013/L-4903
SHEET: 20 OF 61



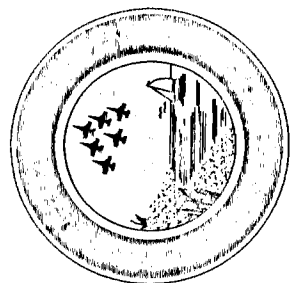
- NOTES:**
1. SEE SHEETS C-200 THROUGH C-207 FOR ADDITIONAL DESIGN INFORMATION RELATED TO THIS PORTION OF GALVEZ ROAD.
 2. CONTRACTOR SHALL REFER TO SIDEWALK GRADING SHOWN ON SHEET C-203.




PROFILE

SCALE : HOR. : 1" = 20'
VER. : 1" = 4'

PLAN AND PROFILE
CRUZAT WAY



		EXCELLENCE IN ENGINEERING SERVICE 8574 Turkey Bluff Road Naples, Florida 34108 P: (813) 849-5700 F: (813) 849-5700 WWW.NAPLESFLORIDA.GOV	
CERTIFICATE OF ADOPTION Resolution No. _____		RECEIVED BY: _____ DATE: _____ 5:33 PM STATE OF FLORIDA SIGNED: _____ DATE & LOCATION: _____	
PREPARED BY: EXAM: _____ DATE: _____	DESIGNED BY: DFL _____ PROJECT MANAGER: _____	CHECKED BY: WITH _____ INTERVIEW: _____ 2 _____	SECTION: TOWNSHIP / RANGE 14-25E-23W REA BY: 14-47PM-13100 FOR 45, 14-614, 14-624

BY	DATE	APPROVED BY
REVISIONS		
NUMBER		
DRAWING NUMBER	C-403	
PROJECT NUMBER	170001-004	
SURVEY NUMBER	RBA	ESC CNTY
	2019.013/L	4903
SHEET	21	OF 61

VERTICAL SCALE: 1"=5'

HORIZONTAL SCALE: 1"=20'

NEW SIDEWALK

GALVEZ ROAD - Sta 10+50

VERTICAL SCALE: 1"=5'

14265 DRIVEWAY

EXISTING SIDEWALK

HORIZONTAL SCALE: 1"=20'

GALVEZ ROAD - Sta 11+07

GALVEZ ROAD - Sta 11+50

Diagram illustrating the cross-section of Galvez Road at Sta 12+00, showing the proposed sidewalk and existing road profile.

Vertical Scale: 1"=5'

Horizontal Scale: 1"=20'

Key Features:

- NEW SIDEWALK:** Indicated by a dashed line and an arrow.
- Existing Road Profile:** Shown as a solid line.
- Proposed Road Profile:** Shown as a dashed line.
- Vertical Elevation:** Ranges from 2 to 26 feet.
- Horizontal Distance:** Ranges from -40 to 40 feet.

VERTICAL SCALE: 1"=5'

5810 DRIVEWAY

NEW SIDEWALK

HORIZONTAL SCALE: 1"=20'

GALVEZ ROAD - Sta 12+34

VERTICAL SCALE: 1"=5'

HORIZONTAL SCALE: 1"=20'

NEW SIDEWALK

GALVEZ ROAD - Sta 12+50

VERTICAL SCALE: 1"=5'

5840 DRIVEWAY

HORIZONTAL SCALE: 1"=20'

GALVEZ ROAD - Sta 13+02

VERTICAL SCALE: 1"=5'

NEW SIDEWALK

5851 DRIVEWAY

HORIZONTAL SCALE: 1"=20'

GALVEZ ROAD - Sta 13+33

Diagram illustrating the cross-section of Galvez Road at Station 13+50. The vertical scale is 1"=5' and the horizontal scale is 1"=20'.

The diagram shows a road with a 12-foot wide existing sidewalk on the right side. The road width is 12 feet, and the sidewalk width is 12 feet. The road is labeled "GALVEZ ROAD - Sta 13+50".

VERTICAL SCALE: 1"=5'

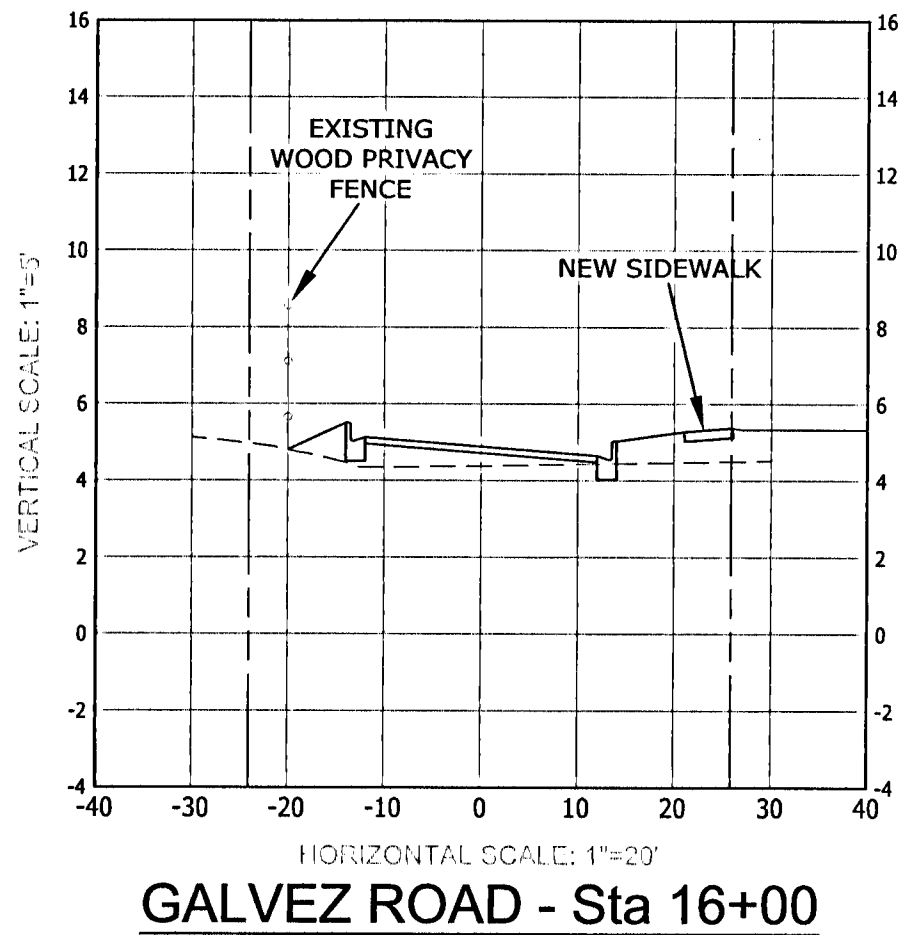
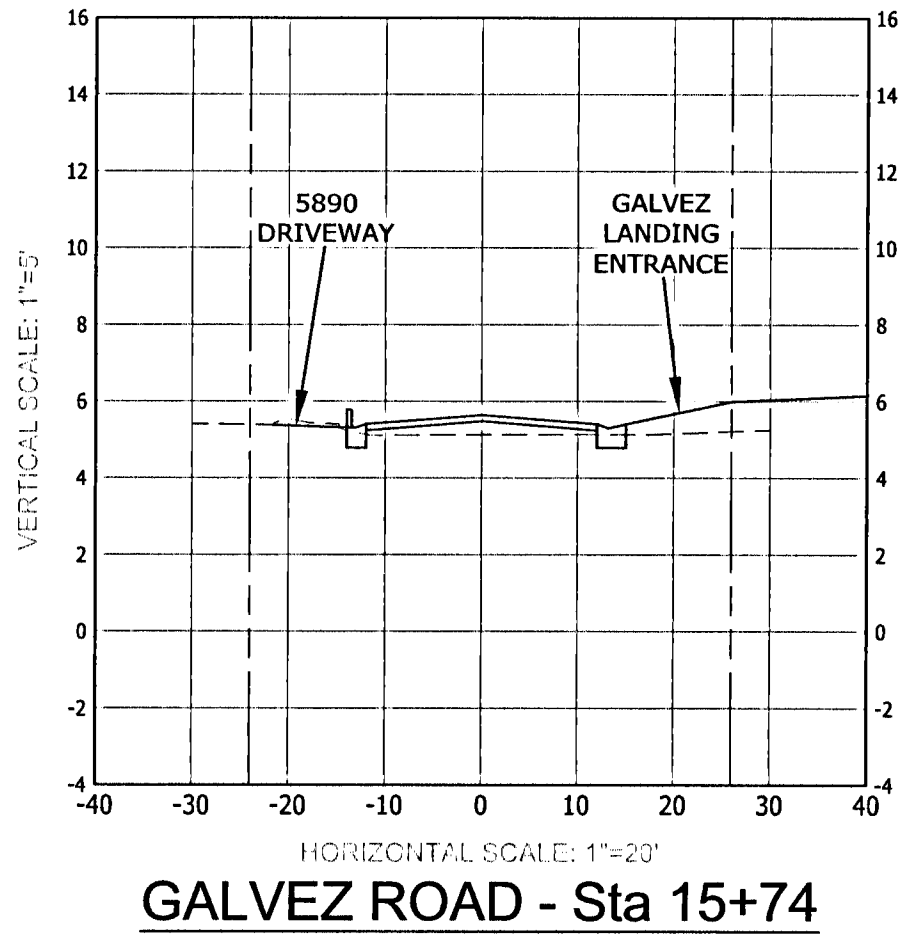
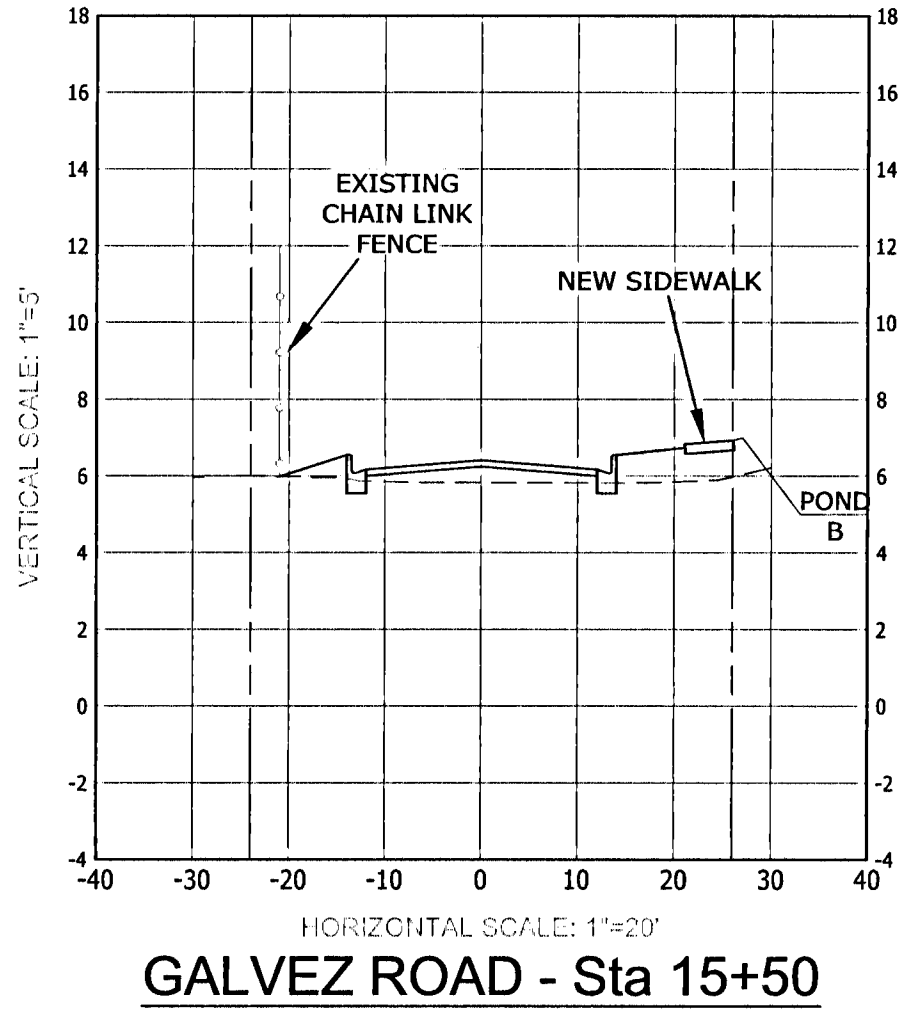
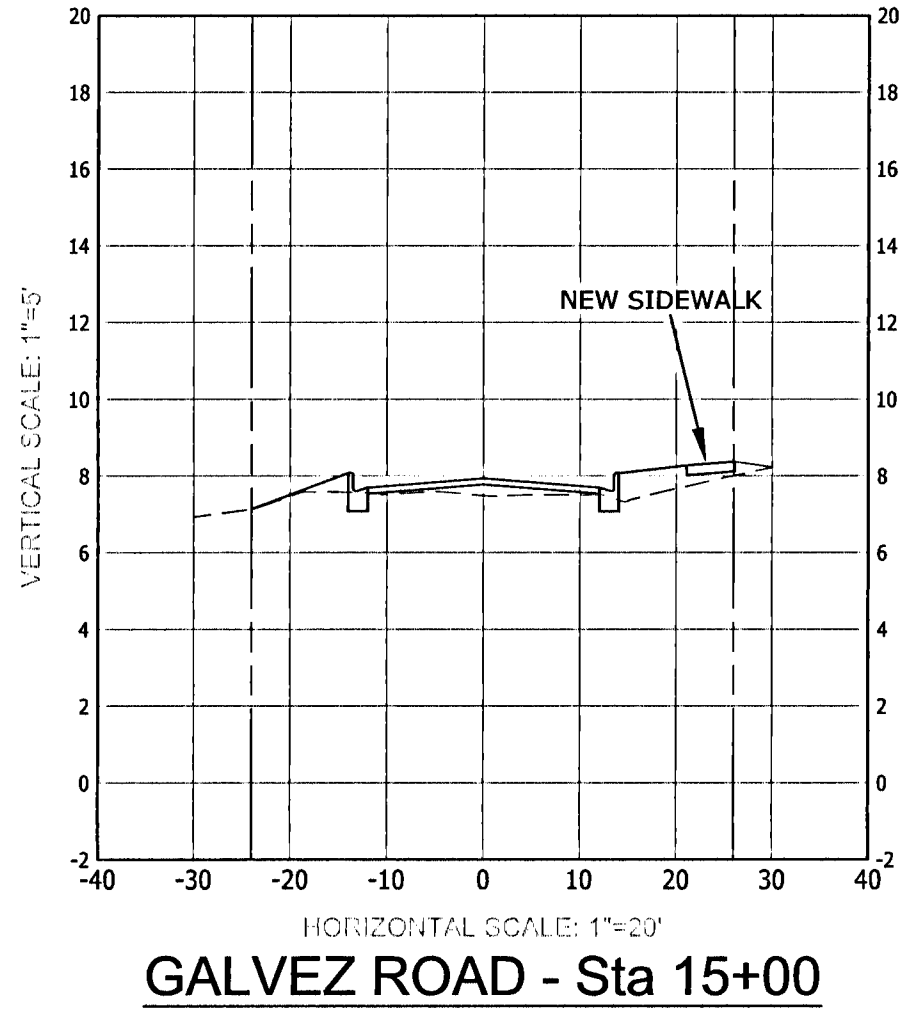
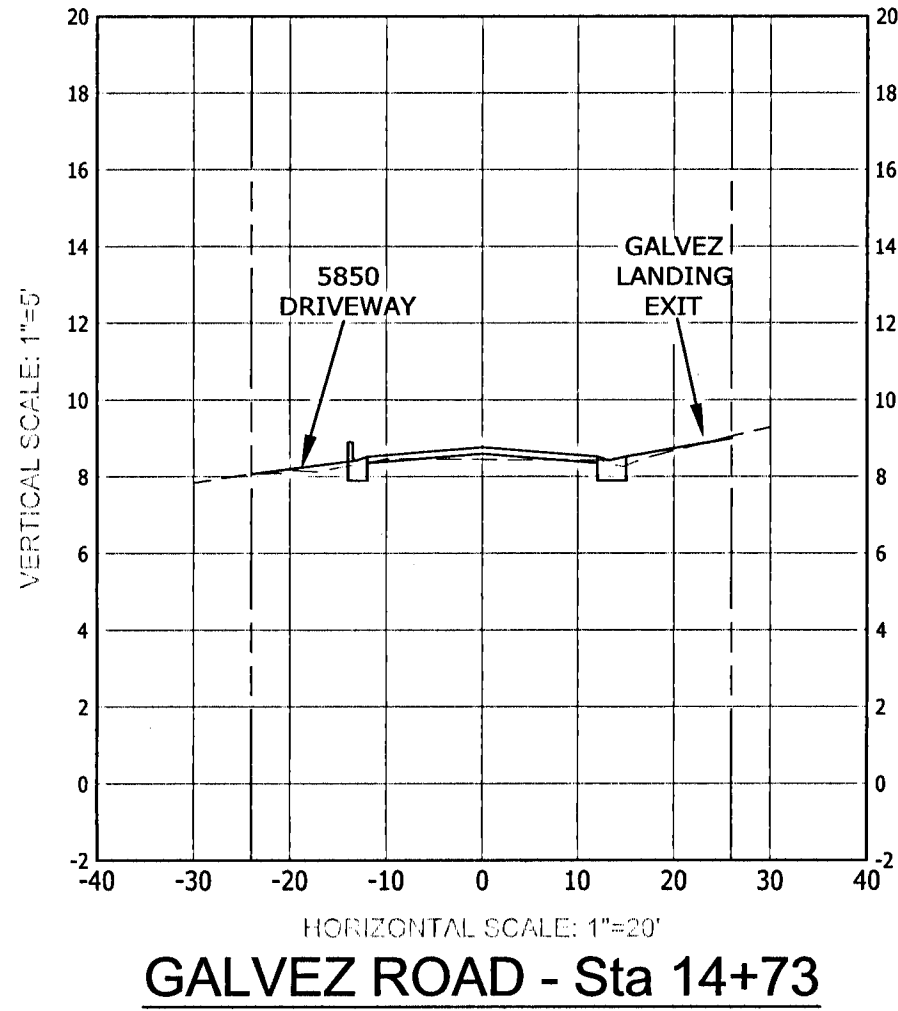
HORIZONTAL SCALE: 1"=20'

NEW SIDEWALK

GALVEZ ROAD - Sta 14+00

Profile view of Galvez Road showing existing and proposed elevations. The vertical scale is 1"=5' (0 to 22 feet) and the horizontal scale is 1"=20' (-40 to 40 feet). The profile shows a road with a proposed sidewalk on the right side. A label "NEW SIDEWALK" points to the proposed sidewalk line.

PHASE	REVIEW	ORIGINATOR (RP)		DATE		ORIGINATOR (QR)		CHECKER (RP)		DATE		ORIGINATOR (QR)		CHECKER (QR)		DATE	
		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)				CHANGE INCORPORATION		(Red Pen X-Out to Disagree or Remark)				REMARK INCORPORATION		(Blue Highlighter)			
		SIGNATURE:															



EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Bull Road
Navarre, Florida 32568
p: (850) 889-5732
CERTIFICATE OF AUTHORIZATION 08-0096

DESIGNED BY:
DEL

PROJECT MANAGER:
NICOLAS CHAUVIN

DATE:
MARCH 2021

CHECKED BY:
WVP II

DISTRICT:
2

SECTION/TOWNSHIP/RANGE:
14-38-32W

DATE:
5/15/21

SIGNATURE:

DRAWING NUMBER
C-501

PROJECT NUMBER
170001-004

SURVEY NUMBER
2019.013/L-4903

SHEET
23 OF 61

REVISIONS

NUMBER

DATE

APPROVED BY

ORIGINATOR (RP)

DATE

ORIGINATOR (QR)

DATE

CHECKER (RP)

DATE

CHECKER (QR)

DATE

ORIGINATOR (RP)

DATE

CHECKER (RP)

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ORIGINATOR (QR)

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ORIGINATOR (RP)

DATE

CHECKER (RP)

DATE

ORIGINATOR (QR)

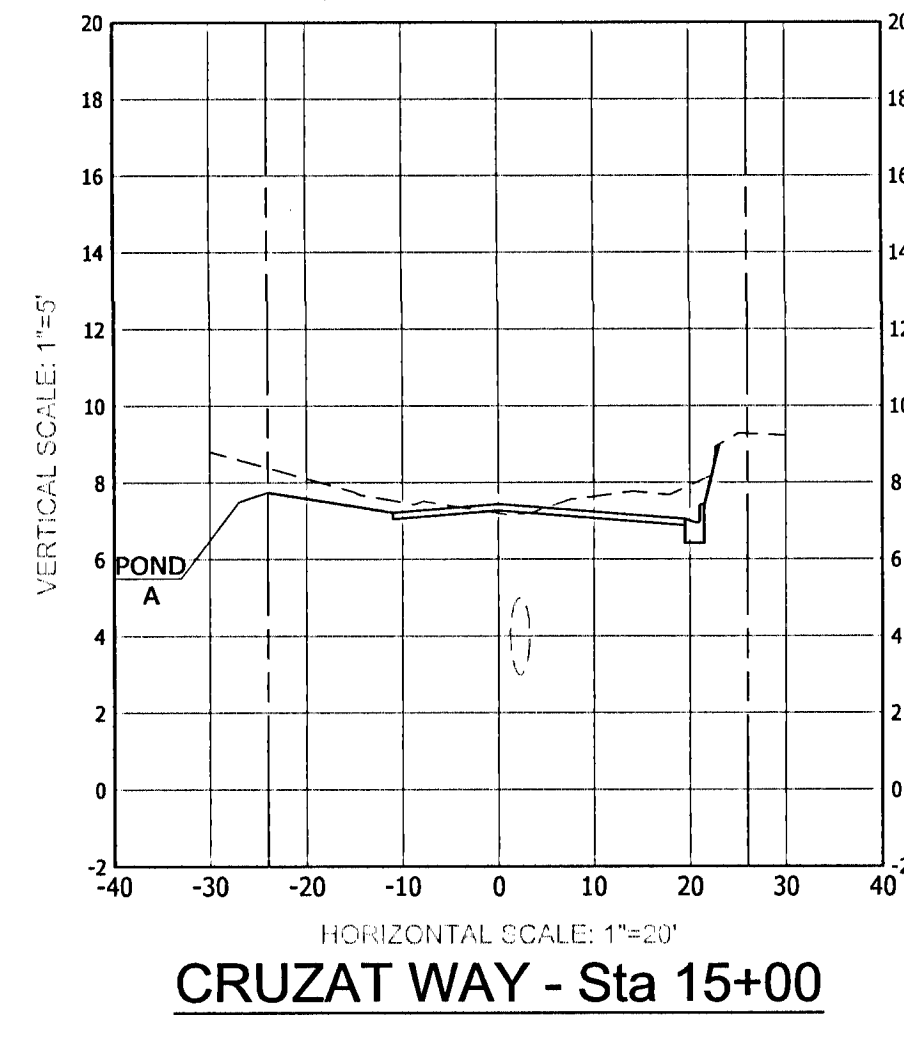
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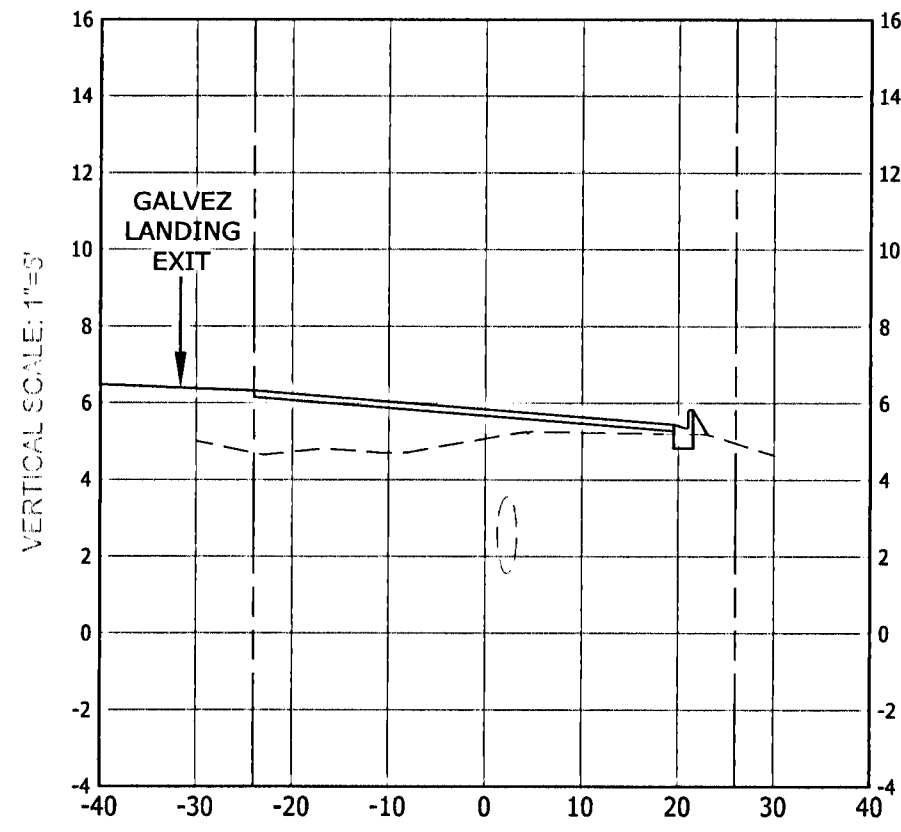
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GALVEZ LANDING BOAT RAMP IMPROVEMENTS

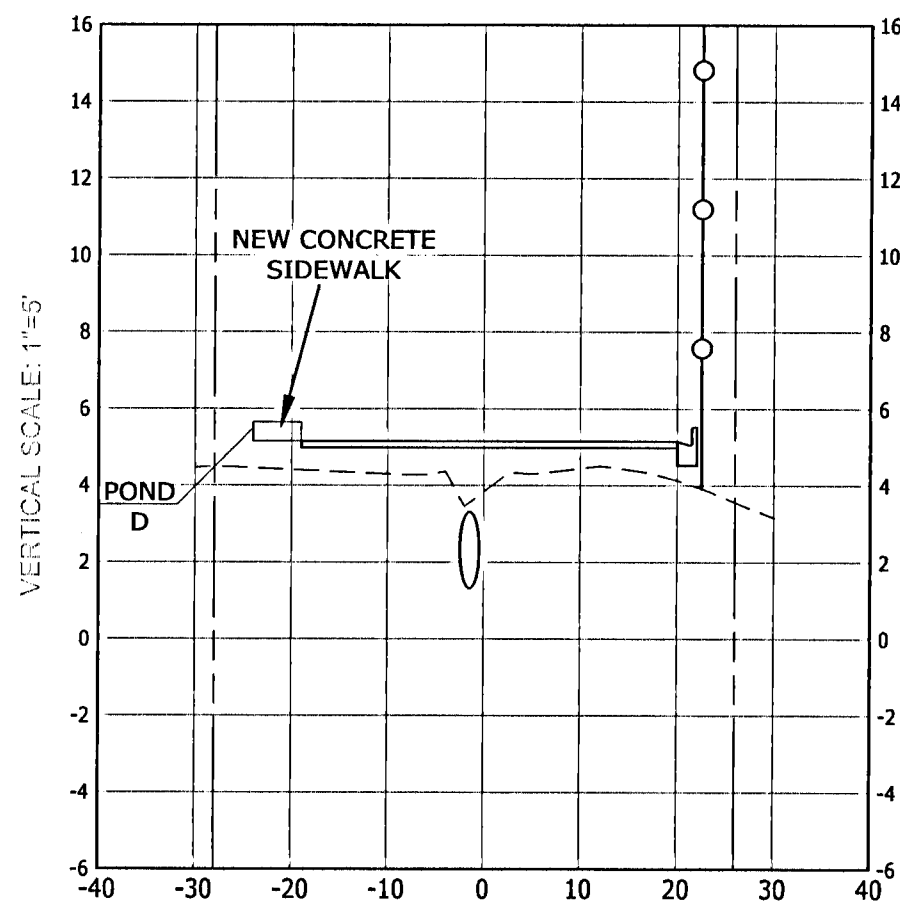
CROSS SECTIONS
GALVEZ ROAD



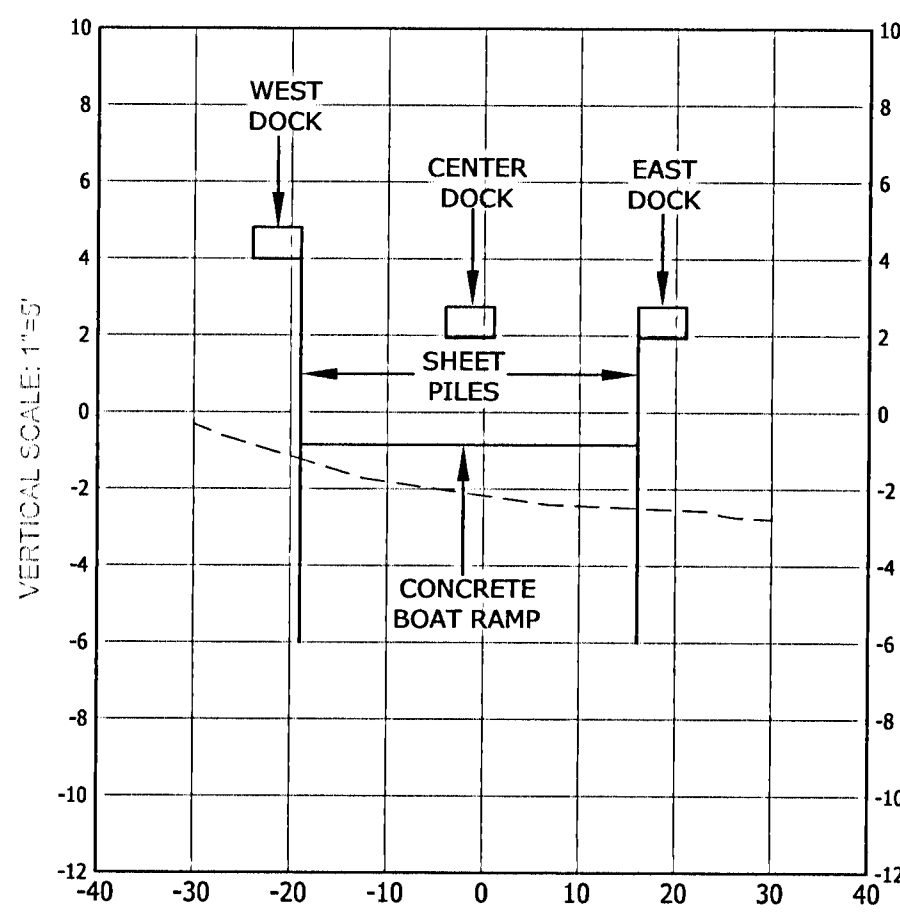
CRUZAT WAY - Sta 15+50



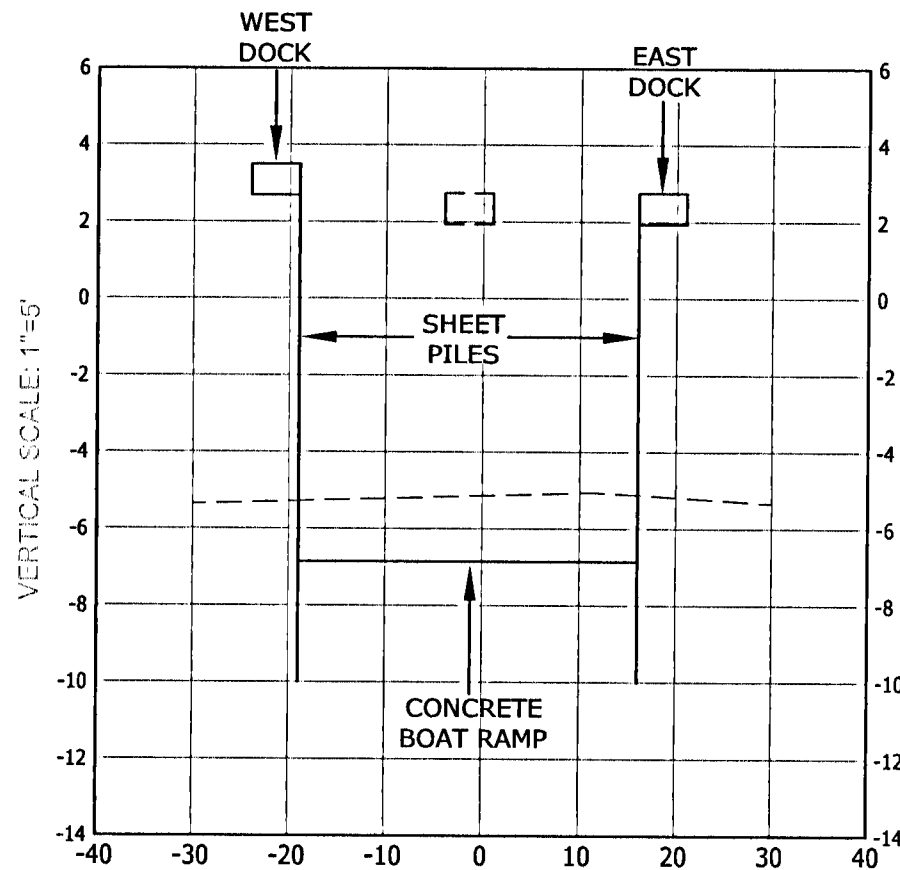
CRUZAT WAY - Sta 15+70



CRUZAT WAY - Sta 16+00



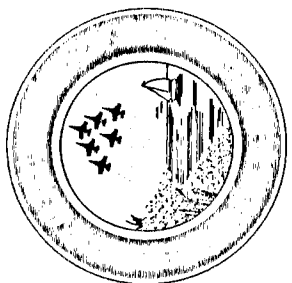
CRUZAT WAY - Sta 16+50



CRUZAT WAY - Sta 17+00

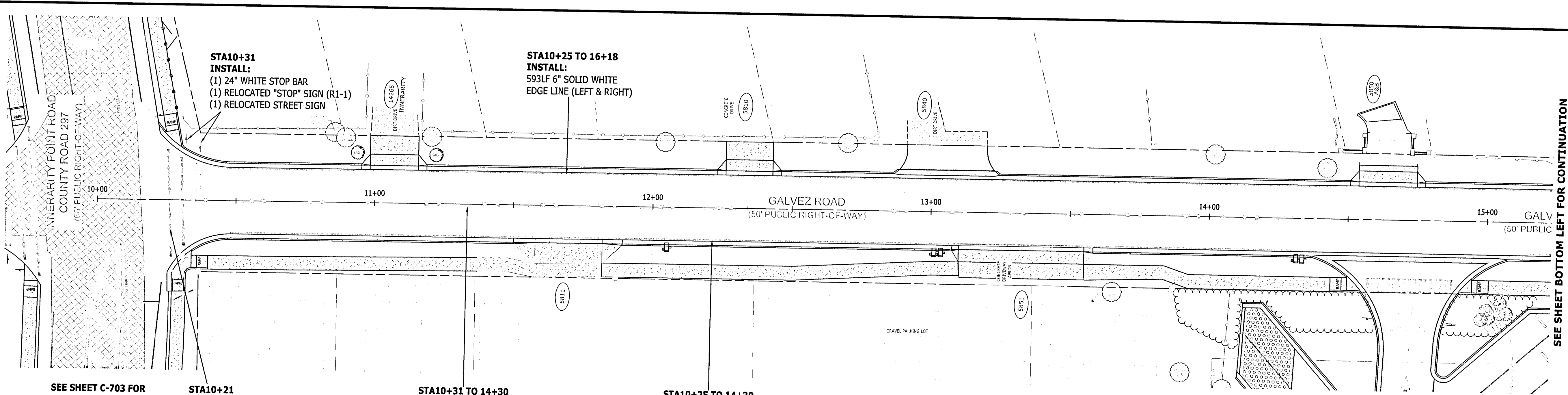
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CROSS SECTIONS CRUZAT WAY

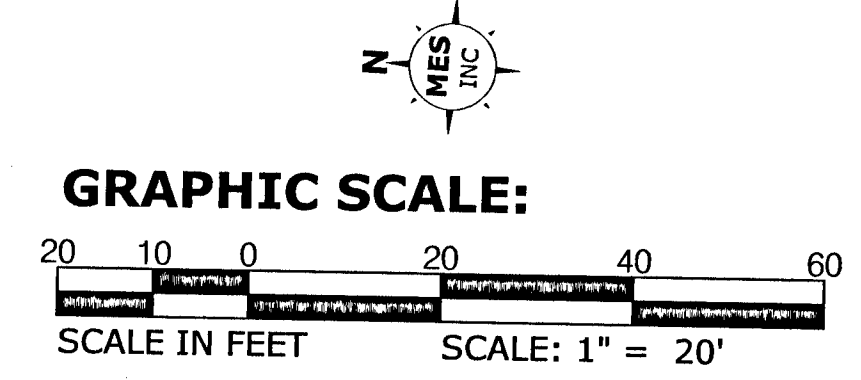
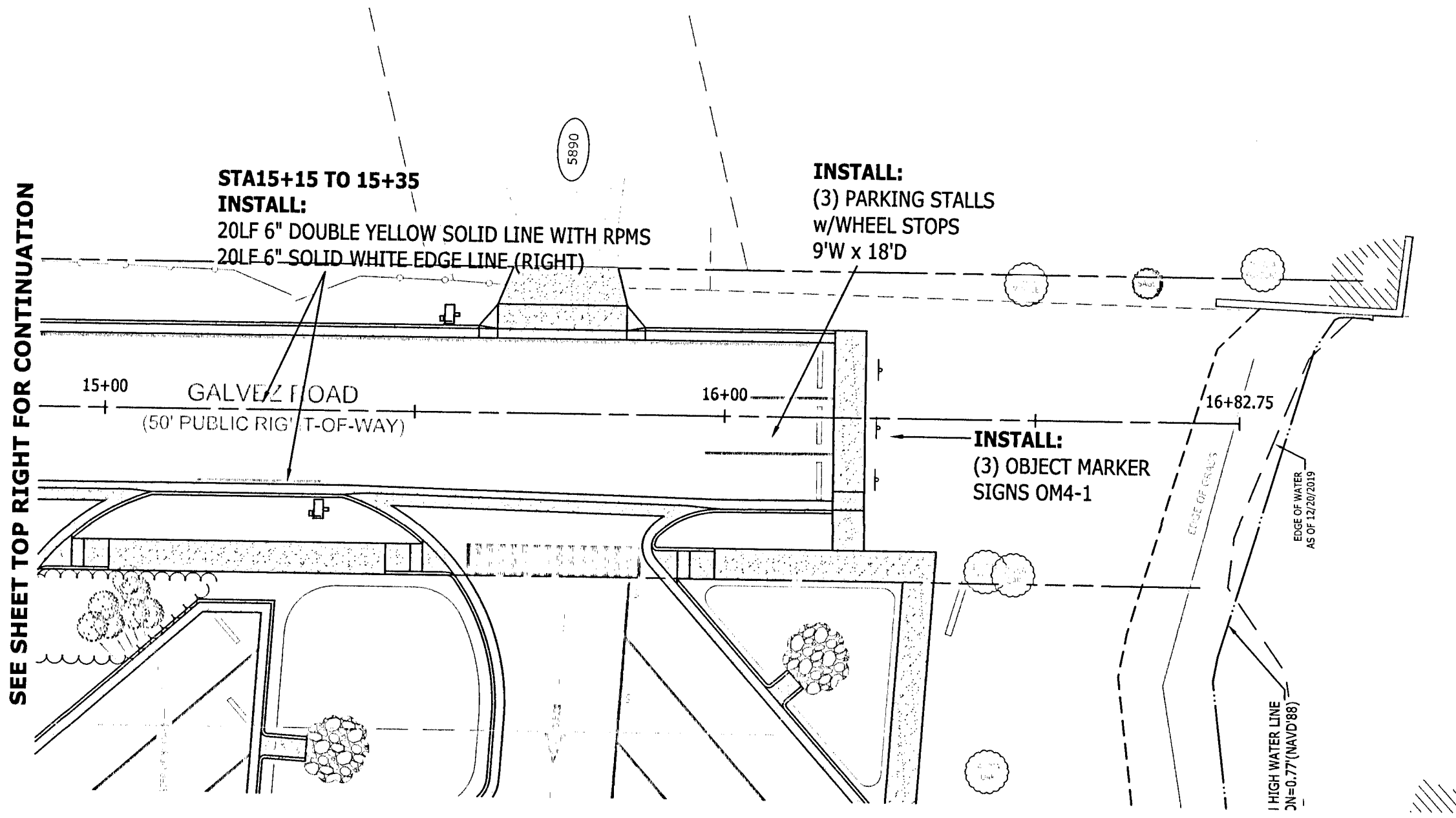
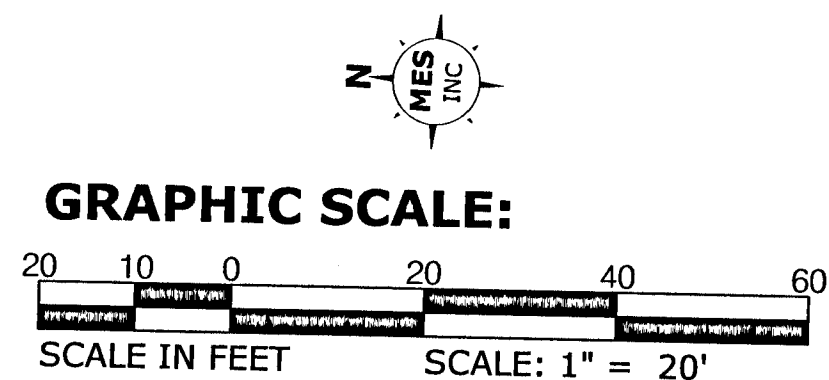


M:\2017\170001-004 Galvez Boat Ramp (Plans and Specs)\Dwg Sheets\05 Wayfinding.dwg, 26, 3/3/2021 4:35:21 PM

PHASE	REVIEW	SIGNATURE:	ORIGINATOR (RP)		DATE		ORIGINATOR (QR)		DATE		CHECKER (RP)		DATE		VERIFICATION, CHECKER (QR)		DATE	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)				CHANGE INCORPORATION		(Yellow Highlighter)		REMARK INCORPORATION		(Blue Highlighter)		REMARK INCORPORATION		(Blue Highlighter)	



SEE SHEET BOTTOM LEFT FOR CONTINUATION



- NOTES:**
1. ALL STRIPING SHALL BE THERMOPLASTIC AND INSTALLED PER F.D.O.T. INDEX #711-001.
 2. ALL STRIPING AND SIGNAGE SHALL MEET THE REQUIREMENTS OF THE F.D.O.T./COUNTY SPECIFICATIONS AND CURRENT M.U.T.C.D.
 3. RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.D.O.T. INDEX #706-001.
 4. ALL SIGNS SHALL BE INSTALLED PER F.D.O.T. INDEX #700-010 AND #700-101.
 5. SEE SHEET C-204 AND C-703 FOR ADDITIONAL STRIPING DESIGN.
 6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING SIGNAGE NOTED TO BE RELOCATED, OR REPLACING AT HIS COST.

REVISIONS

DATE

APPROVED BY

DRAWING NUMBER

C-600

PROJECT NUMBER

170001-004

SURVEY NUMBER

RBA ESC CNTY 2019.013/L-4903

EXCELLENCE IN ENGINEERING SERVICE

ESTHER BURRILL, P.E., C.E.C. LONG

PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

CERTIFICATE # 58833

EXPIRATION DATE 03/31/2024

DESIGNED BY

WVP II

CHECKED BY

WVP II

PROJECT MANAGER

NICOLAS CHAUTIN

DATE

MARCH 2021

FIELD BOOK PAGES

RBA ESC CNTY 451 P.6-7

SECTION/TOWNSHIP/RANGE

14-35-32W

GALVEZ LANDING BOAT RAMP IMPROVEMENTS

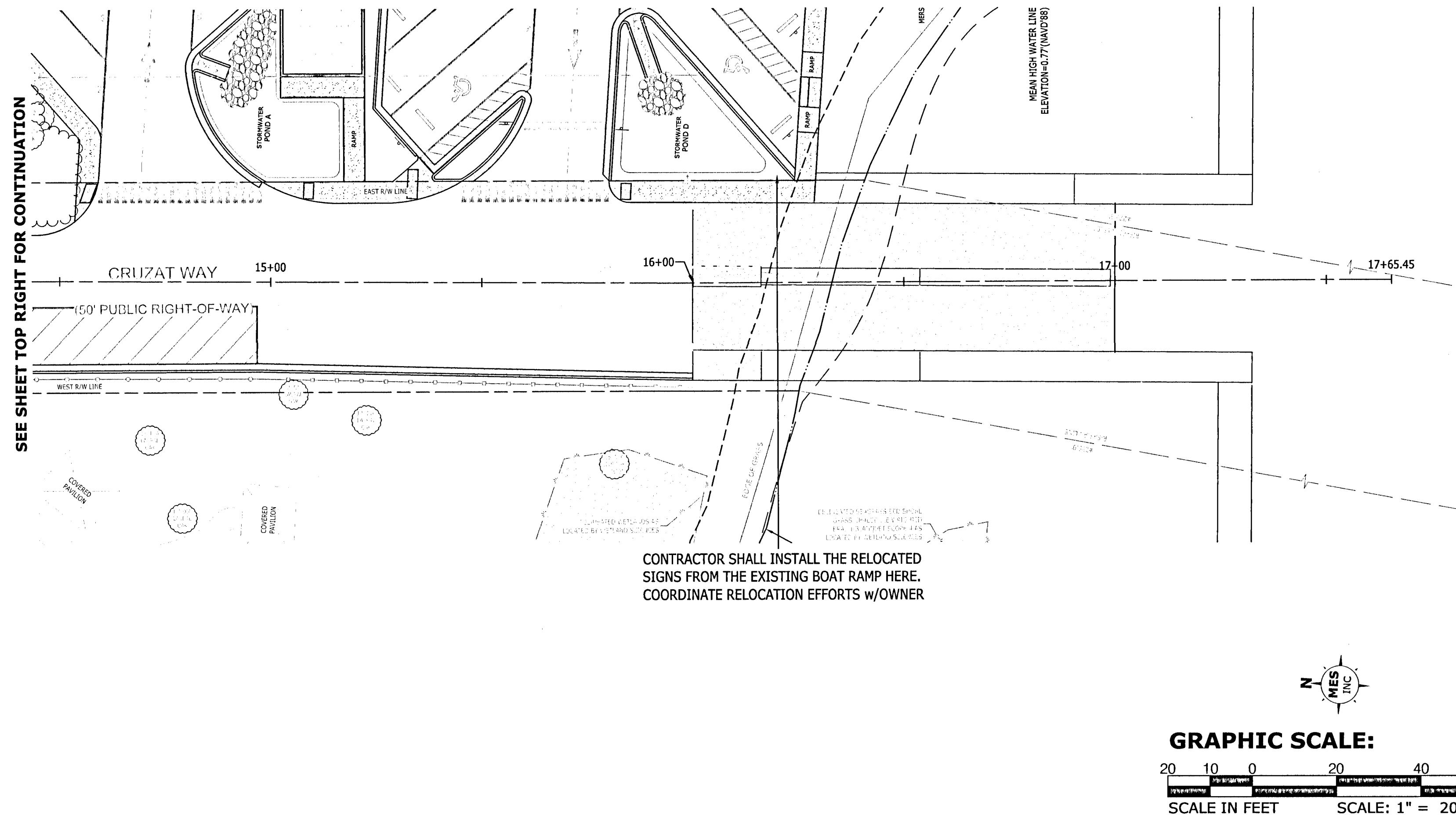
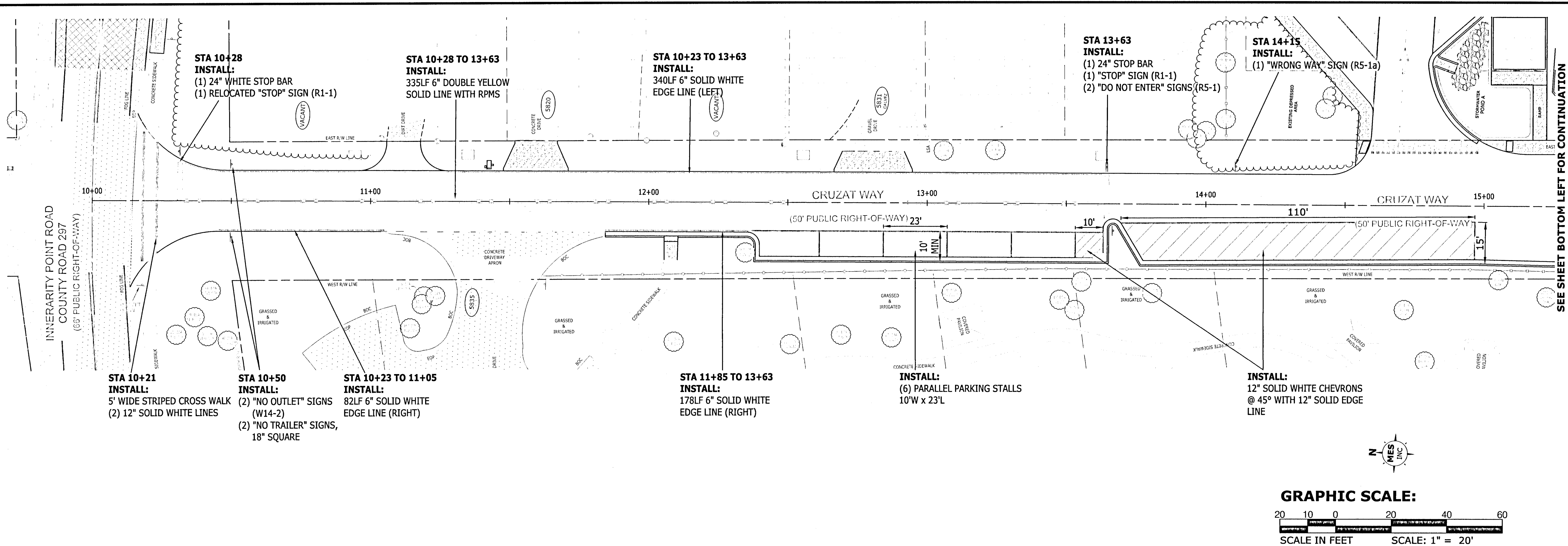
STRIPING AND SIGNAGE PLAN

GALVEZ ROAD

170001-004

26 OF 61

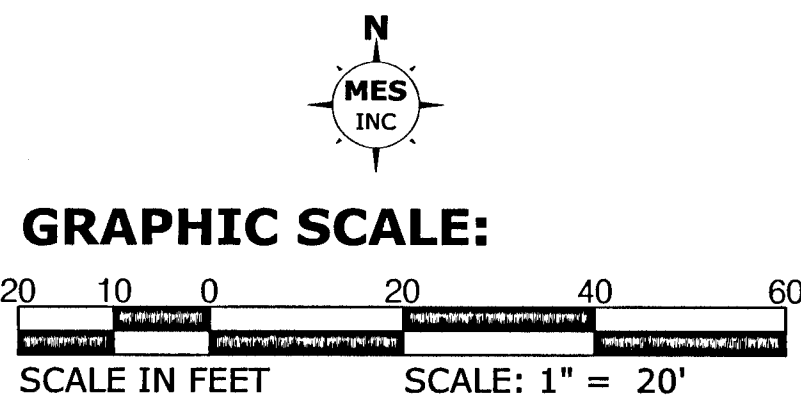
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	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CHECKER (RP) (Red Pen X-Out to Disagree or Remark)	DATE	DATE	REMARK INCORPORATION (Blue Highlighter)
SIGNATURE:	CHANGE INCORPORATION (Yellow Highlighter)	DATE	DATE	DATE	ORIGINATOR VERIFICATION Correct (Pink Highlighter)

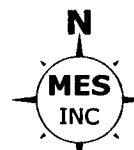
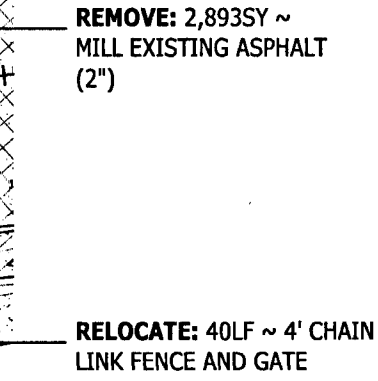


- NOTES:**
1. ALL STRIPING SHALL BE THERMOPLASTIC AND INSTALLED PER F.D.O.T. INDEX #711-001.
 2. ALL STRIPING AND SIGNAGE SHALL MEET THE REQUIREMENTS OF THE F.D.O.T./COUNTY SPECIFICATIONS AND CURRENT M.U.T.C.D.
 3. RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.D.O.T. INDEX #706-001.
 4. ALL SIGNS SHALL BE INSTALLED PER F.D.O.T. INDEX #700-010 AND #700-101.
 5. SEE SHEET C-204 FOR ADDITIONAL STRIPING DESIGN.
 6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING SIGNAGE NOTED TO BE RELOCATED, OR REPLACING AT THE CONTRACTOR'S COST.

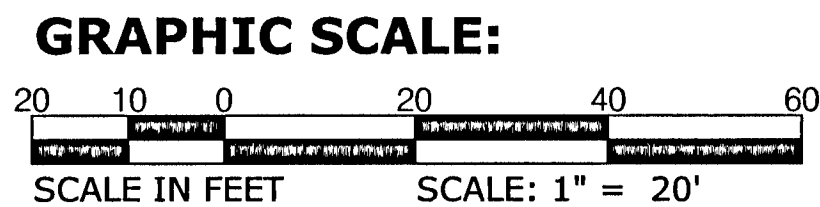


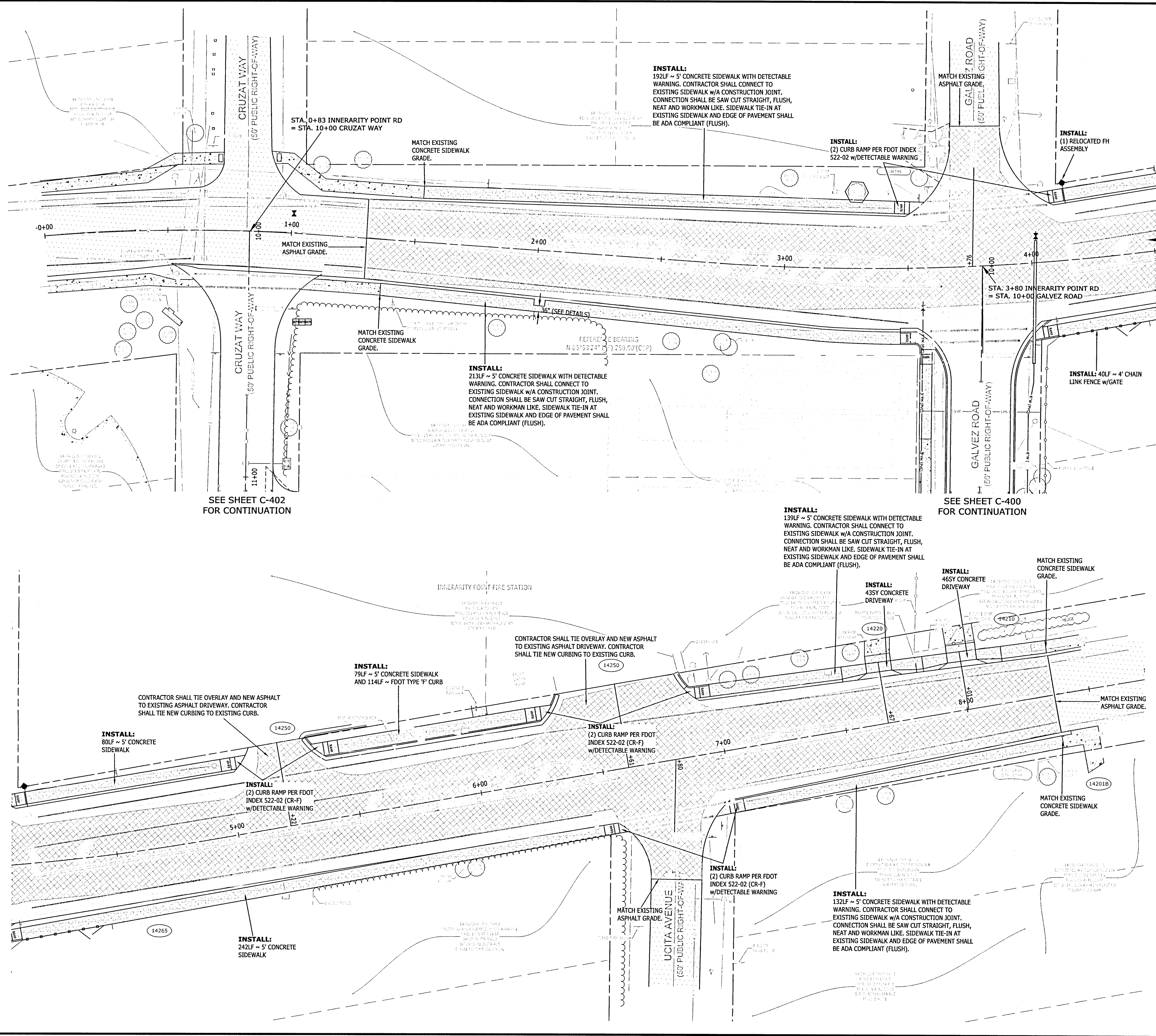
1. NORTH AND THE SURVEY DATUM SHOWN HEREON IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (FLORIDA NORTH ZONE), NORTH AMERICAN DATUM OF 1983 (NAD83) (2011)-(EPOCH 2010.000) HAVING A BEARING OF NORTH 86 DEGREES 53 MINUTES 24 SECONDS EAST ALONG THE SOUTH RIGHT-OF-WAY(R/W) LINE OF INNERARITY POINT ROAD (100' R/W); AND WERE DERIVED UTILIZING A GLOBAL POSITIONING SYSTEM (GPS) TOPCON HIPER II GEODETIC DUAL FREQUENCY RECEIVER. THE RECEIVER WAS UTILIZED IN A REAL-TIME KINEMATIC (RTK) MODE UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION FLORIDA PERMANENT REFERENCE NETWORK (FPRN), FLORIDA'S GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) REFERENCE STATION NETWORK; COPY OF BOUNDARY AND TOPOGRAPHIC SURVEY OF THE ESCAMBIA COUNTY GALVEZ AND CRUZATA WAY BOAT RAMP PARCEL SURVEY AS PERFORMED BY ESCAMBIA COUNTY ENGINEERING DEPARTMENT, DRAWING NUMBER L-4903, LAST REVISED 06/25/2018 ALONG WITH THE POINT DATA FILE AND CAD DRAWING (.DWG); COPY OF PLAT OF GULF BEACH HEIGHTS AS RECORDED IN DEED BOOK 94, AT PAGE 505, OF THE PUBLIC RECORDS OF ESCAMBIA, COUNTY, FLORIDA; COPY OF PLAT OF GULF BEACH HEIGHTS AS RECORDED IN DEED BOOK 94, AT PAGE 623, OF SAID PUBLIC RECORDS; COPY OF PLAT OF GULF BEACH HEIGHTS AS RECORDED IN DEED BOOK 96, AT PAGE 427, OF SAID PUBLIC RECORDS; COPY OF SUBDIVISION OF INNERARITY HEIGHTS AS RECORDED IN DEED BOOK 102, AND DEED 172 OF SAID PUBLIC RECORDS; COPY OF MAP OF SECTION 14, TOWNSHIP 3 SOUTH, RANGE 32 WEST, ESCAMBIA COUNTY, FLORIDA, AS RECORDED IN DEED BOOK 102, AT PAGE 308 OF SAID PUBLIC RECORDS; COPY OF PLAT OF FIRST ADDITION TO SUNSET BOYD AS RECORDED IN PLAT BOOK 3, AT PAGE 36, OF SAID PUBLIC RECORDS; COPY OF PREVIOUS TOPOGRAPHIC SURVEY BY THIS FIRM OF GALVEZ ROAD, CRUZATA WAY AND GALVEZ BOAT RAMP, PROJECT NUMBER 2019-177, SIGNED FEBRUARY 10, 2020; DEEDS OF RECORD AND EXISTING FIELD MONUMENTATION.
2. NO TITLE SEARCH, TITLE OPINION OR ABSTRACT WAS PERFORMED BY NOR PROVIDED TO THIS FIRM FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, BUILDING SETBACKS, RESTRICTIVE COVENANTS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE BOUNDARIES OR USE OF THE SUBJECT PROPERTY.
3. ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AND ARE REFERENCED TO THE BENCHMARK 43576-A AS SHOWN ON PREVIOUS SURVEY BY ESCAMBIA COUNTY, FLORIDA ENGINEERING DEPARTMENT, DRAWING NUMBER L-4903, REVISED 06/25/2018, HAVING AN ELEVATION OF 9.66 FEET (REFERENCED TO ESCAMBIA COUNTY GPS MONUMENT ESC 4130, HAVING A PUBLISHED ELEVATION OF 4.63(NAV88)).
4. THIS IS A TOPOGRAPHIC SURVEY ONLY. IN THE COURSE OF THIS SURVEY AN EFFORT WAS MADE TO ENSURE THE SURVEY LIMITS COINCIDED WITH THE DEED(S) OF RECORD FOR THE ADJACENT PROPERTIES. SUBSEQUENTLY, BOUNDARY MONUMENTATION APPARENTLY REPRESENTING THE RIGHT-OF-WAYS & ABUTTING PARCELS WERE RECOVERED TO ENSURE THE TOPOGRAPHIC SURVEY COVERS THE SUBJECT PROPERTY AS SHOWN HEREON.
5. IT IS THE OPINION OF THE UNDERSIGNED SURVEYOR & MAPPER THAT THE PARCEL OF LAND SHOWN HEREON IS IN ZONE "AE", SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, WITH A BASE FLOOD ELEVATION OF 5.0 FEET, BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR ESCAMBIA COUNTY, FLORIDA, COMMUNITY PLAN NUMBER 12033C0506, EFFECTIVE DATE OF SEPTEMBER 29, 2006.
6. VISIBLE UTILITIES WITHIN THE SURVEY LIMITS ARE AS SHOWN HEREON. SUBSURFACE UTILITY LINES WERE LOCATED AND ARE SHOWN AS PER THE RESPECTIVE UTILITY COMPANY'S SPOTTING (PAINTED SPOTS AND FLAGGED LINES). THE FOLLOWING SUNSHINE ONE CALL TICKET WAS ISSUED FOR THIS PROJECT:
 - GALVEZ ROAD - 312904781
 - CRUZATA WAY - 312904821
 - INNERARITY POINT ROAD -175000962
7. GRAPHIC SYMBOLISM FOR FEATURES SUCH AS MONUMENTATION, FENCES, TREES, TREE LINES, UTILITIES (EXCEPT WAY) WAS EXAGGERATED IN SIZE FOR CLARITY PURPOSES. DIMENSIONS TO EXAGGERATED FEATURES WILL SUPERSEDE SCALE MEASUREMENTS.
8. MEASUREMENTS AS SHOWN HEREON WERE MADE TO UNITED STATES STANDARDS AND ARE EXPRESSED IN DECIMAL OF FEET.
9. THIS SURVEY DOES NOT REPRESENT NOR GUARANTEE OWNERSHIP.
10. VISIBLE ENCROACHMENTS ARE AS SHOWN HEREON.
11. VISIBLE IMPROVEMENTS ARE AS SHOWN HEREON.







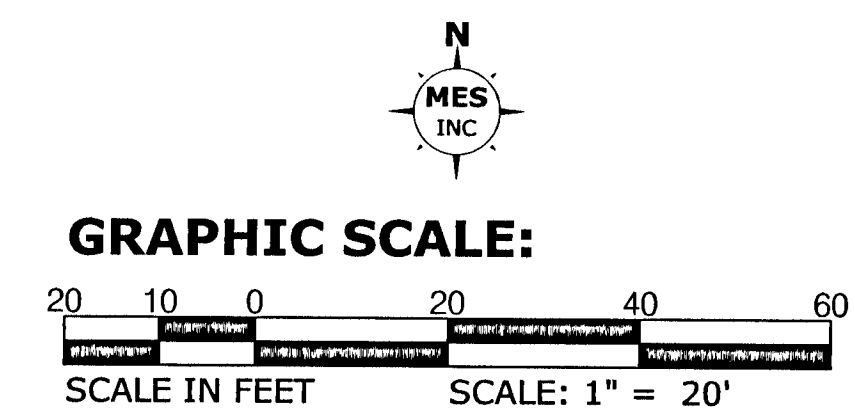
1. WHILE NOT SHOWN ON THE PLANS FOR CLARITY, THE CONTRACTOR SHALL INSTALL SILT FENCE WITHIN THE PROJECT LIMITS AS REQUIRED TO CONTROL SEDIMENTATION.
2. ALL EXISTING MAIL BOXES SHALL BE REPLACED AND RELOCATED (IF REQUIRED) TO THE NEW EDGE OF PAVEMENT PER THE GENERAL NOTES. THE NEW MAILBOX LOCATION SHALL BE COORDINATED WITH THE RESIDENT AND SHALL MEET USPS REQUIREMENTS.
3. EXISTING WATER METERS THAT ARE DETERMINED TO INTERFERE WITH THE WORK SHALL BE RELOCATED TO THE RIGHT OF WAY LINE. RELOCATION SHALL BE COORDINATED WITH ECUA AND RESIDENT.
4. THESE PLANS SHOW NEW IMPROVEMENTS TO HUB STACEY'S PROPERTY AS PROVIDED BY DAVID W. FITZPATRICK PROFESSIONAL ENGINEER, PA ON FEBRUARY 20, 2020. IT IS ASSUMED THAT THE WORK PROPOSED ON HUB STACEY'S PROPERTY WILL BE COMPLETED PRIOR TO THE WORK PROPOSED ON THIS SET OF PLANS.
5. CONTRACTOR SHALL PROTECT ALL EXISTING VALVE BOXES AND LIDS DURING MILLING OPERATION. CONTRACTOR SHALL RAISE ALL EXISTING VALVE BOXES TO GRADE AFTER FINAL ASPHALT COURSE IS PLACED.



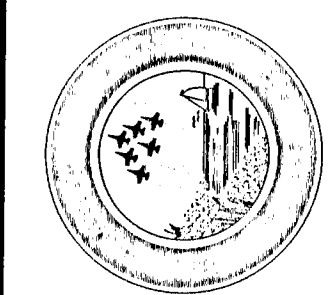


LEGEND:

	- EXISTING ASPHALT TO BE OVERLAID
	- PROPOSED ASPHALT



**GALVEZ LANDING BOAT RAMP IMPROVEMENTS
ROADWAY & SIDEWALK
CONSTRUCTION PLAN**
(INNERARTY TURN LANE)



C-702		DRAWING NUMBER		APPROVED BY	
170001-004		PROJECT NUMBER		DATE	
2019.01/31/L-4903		SURVEY NUMBER		REVISIONS	
30 OF 61		SHEET		NUMBER	

EXCELLENCE IN ENGINEERING SERVICE
 8574 Turkey Bluff Road
 Navarre, Florida 32566
 P: (850) 439-0000
 CENTRAL FLORIDA AUTHORITY: 04-30786

MUNICIPAL

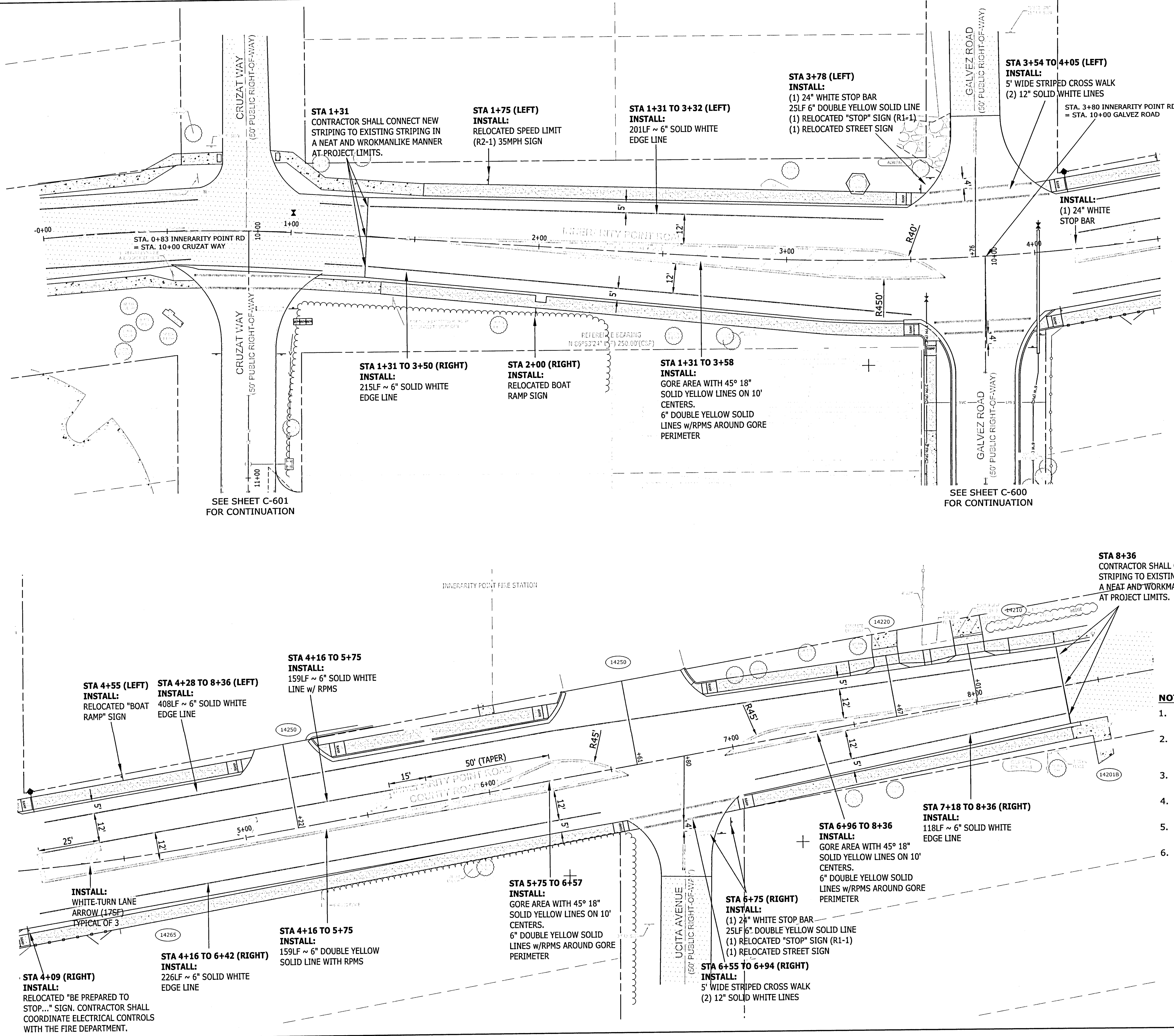
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 RBA 10-104PH-ESC ONLY (B-10-17-06-7)

EXCELLENCE IN ENGINEERING SERVICE
 8574 Turkey Bluff Road
 Navarre, Florida 32566
 P: (850) 439-0000
 CENTRAL FLORIDA AUTHORITY: 04-30786

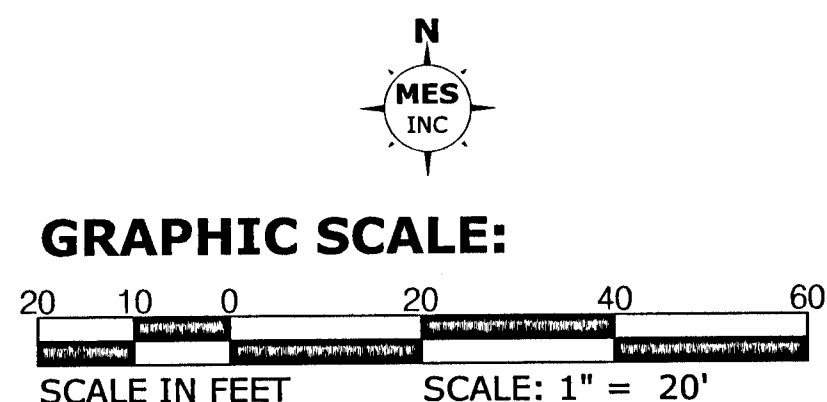
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DATE: 03/01/2021
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 RBA 10-104PH-ESC ONLY (B-10-17-06-7)

PHASE	REVIEW	SIGNATURE:	ORIGINATOR (RP)		DATE		ORIGINATOR (QR)		DATE		VERIFICATION, CHECKER (QR)		DATE	
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)				CHECKER (RP)				REMARK INCORPORATION (Blue Highlighter)			
			CHANGE INCORPORATION (Yellow Highlighter)								ORIGINATOR VERIFICATION (Pink Highlighter)			



- NOTES:**
1. ALL STRIPING SHALL BE THERMOPLASTIC AND INSTALLED PER F.D.O.T. INDEX #711-001.
 2. ALL STRIPING AND SIGNAGE SHALL MEET THE REQUIREMENTS OF THE F.D.O.T./COUNTY SPECIFICATIONS AND CURRENT M.U.T.C.D.
 3. RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.D.O.T. INDEX #706-001.
 4. ALL SIGNS SHALL BE INSTALLED PER F.D.O.T. INDEX #700-010 AND #700-101.
 5. SEE SHEETS C-600 AND C-601 FOR ADDITIONAL STRIPING DESIGN.
 6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING SIGNAGE NOTED TO BE RELOCATED, OR REPLACED AT HIS/HER COST.



EXCELLENCE IN ENGINEERING SERVICE

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MUNICIPAL

DESIGNED BY: DEL
PROJECT MANAGER: NICOLAS CHAUVIN
DATE: MARCH 2021
FIELD BOOK PAGES: 14-53-54

CHECKED BY: W.P.J.II
DISTRICT: 2
SECTION: TOWNSHIP / RANGE
14-53-54

APPROVED BY: [Signature]

DRAWING NUMBER: C-703

PROJECT NUMBER: 170001-004

SURVEY NUMBER: 2019.013/L-4903

SHEET 31 OF 61

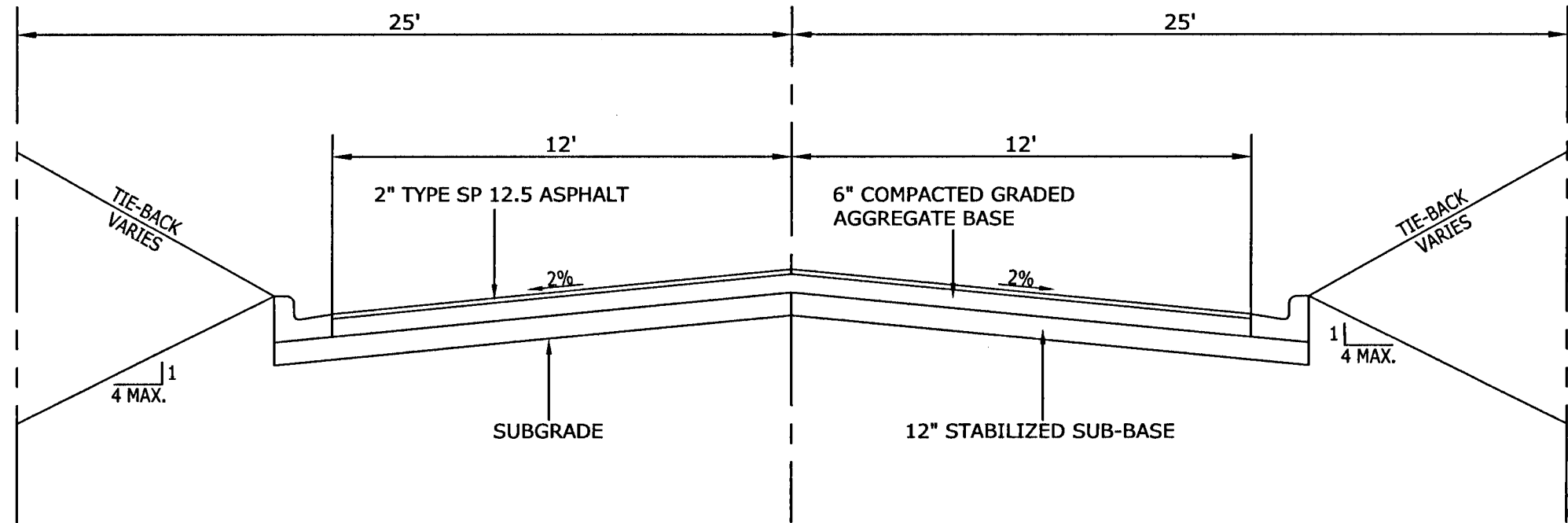
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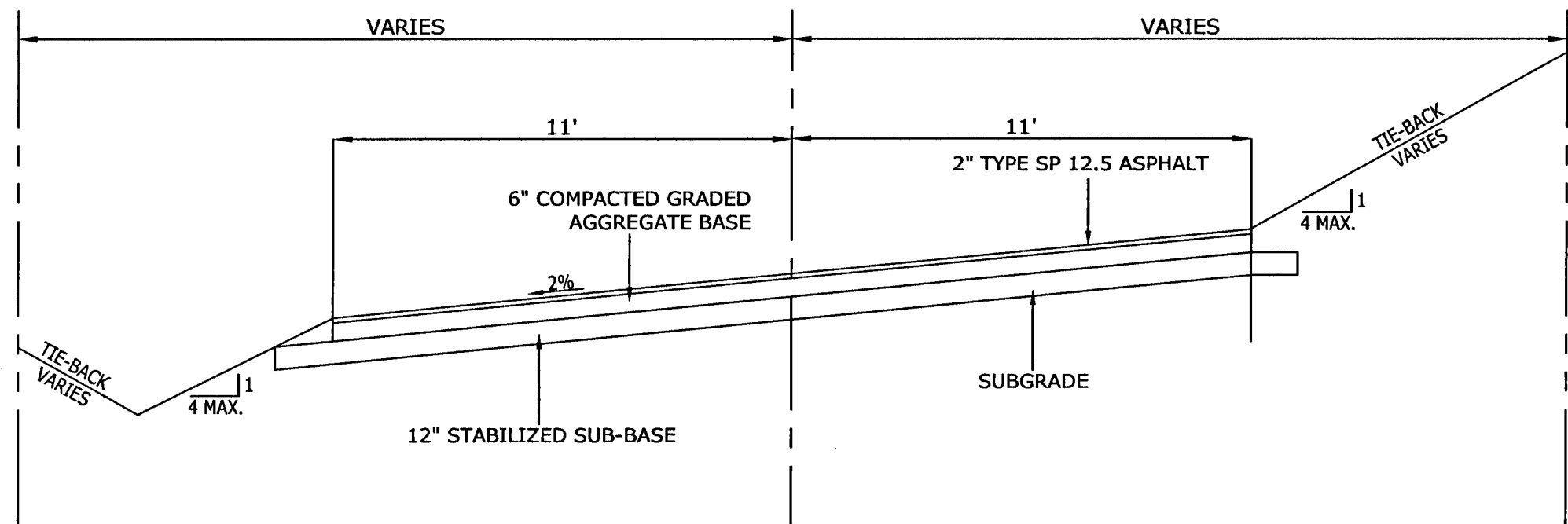
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PROJECT NUMBER	170001-004	
SURVEY NUMBER	RBA 2019.013/L-4903	ESC CNTY
SHEET	32	OF 61

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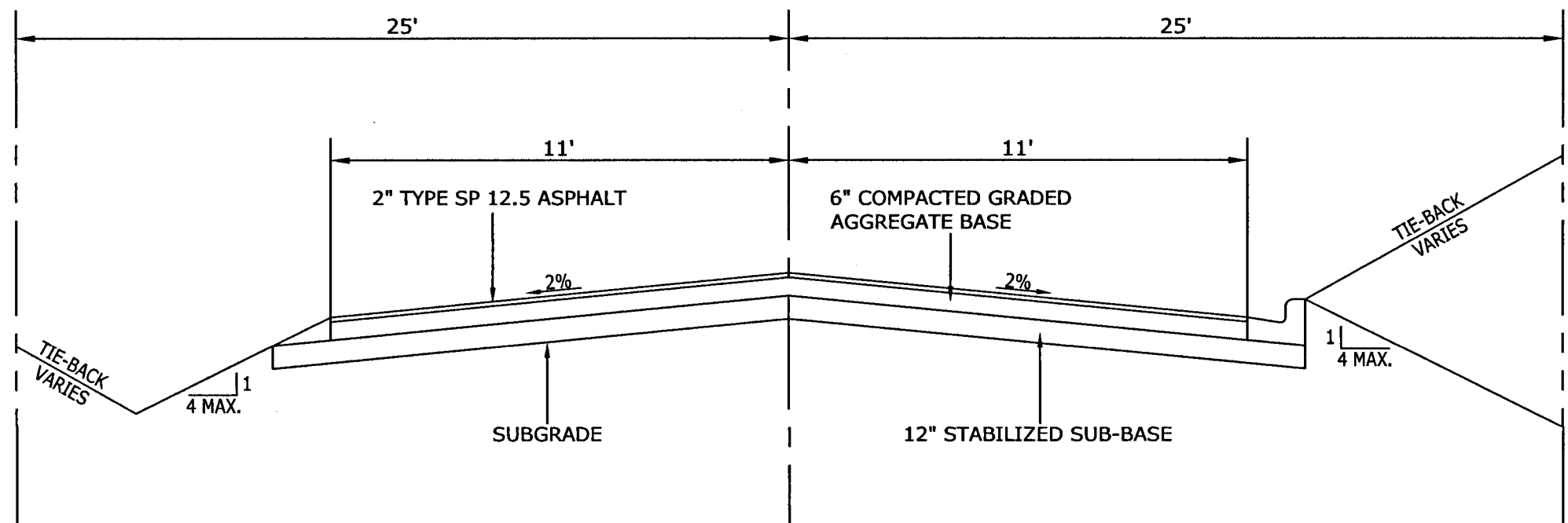
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								Correct (Pink Highlighter)				



CROWNED ROAD SECTION
(GALVEZ ROAD)



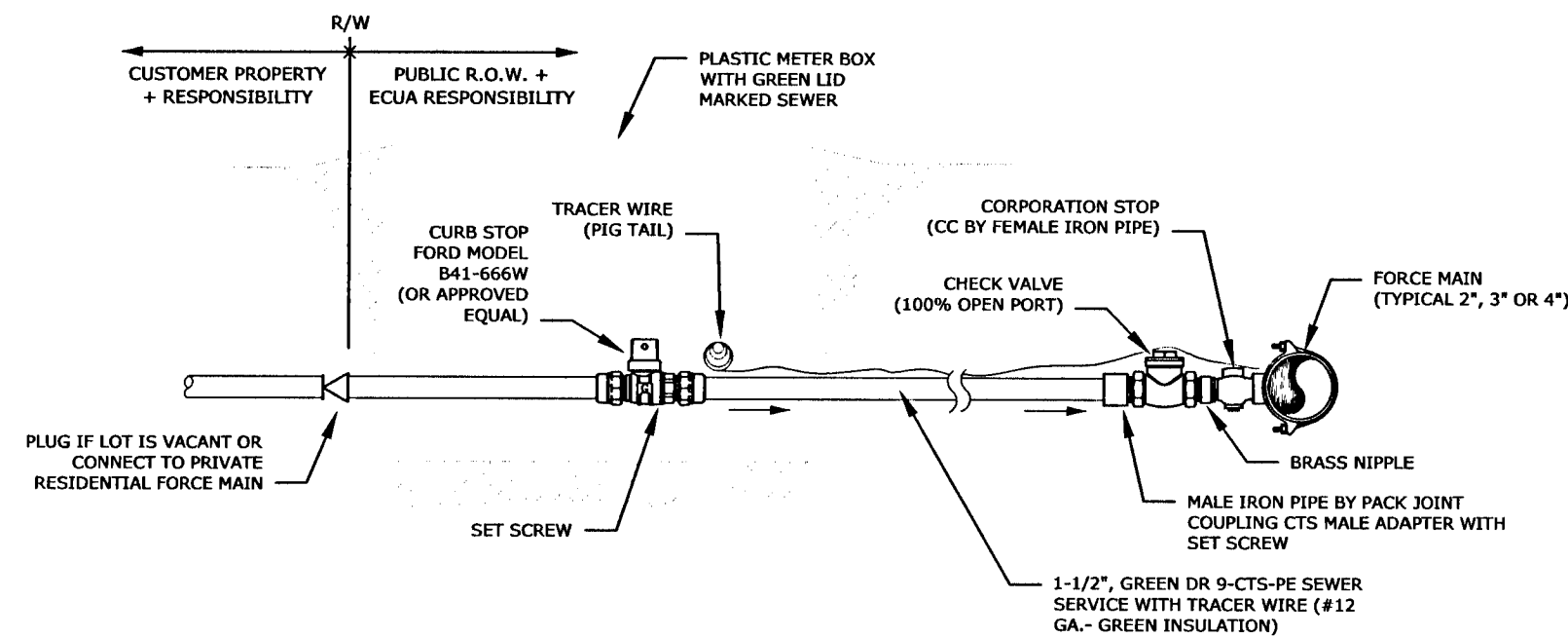
CANTED EAST ROAD SECTION
STA. 10+00 TO STA. 11+85
(CRUZAT WAY)



CROWNED ROAD SECTION
STA. 11+85 TO STA. 15+50
(CRUZAT WAY)

NOTES:

- DITCH DEPTH VARIES.
- CONTRACTOR SHALL SOD DITCHES.
- CONTRACTOR IS RESPONSIBLE FOR WATERING SOD ONCE PLACED UNTIL IT TAKES ROOT AND IS ESTABLISHED.
- CONTRACTOR SHALL CONSTRUCT SIDE SLOPES @ 4:1 PER DETAIL IN ALL LOCATIONS EXCEPT THOSE WHERE STEEPER TIE-BACKS ARE REQUIRED TO KEEP DITCH BANKS WITHIN R/W OR EASEMENT LIMITS OR TO THE EDGE OF PAVEMENT. IN NO CASE SHALL THE SWALE SLOPES BE STEEPER THAN 2:1.
- ALL BASE SHALL BE 6" THICK COMPACTED GRADED AGGREGATE COMPACTED TO 98% OF THE MODIFIED PROCTOR WITH MIN. LBR OF 100.
- ALL STABILIZED SUBBASE SHALL BE 12" THICK COMPACTED TO 98% OF MODIFIED PROCTOR WITH MIN. LBR OF 40. EXISTING SAND/CLAY ROADWAY MATERIAL MAY BE UTILIZED AS SUBGRADE. CONTRACTOR SHALL REVIEW AND ADHERE TO THE REQUIREMENTS OF THE REPORT OF GEOTECHNICAL INVESTIGATION.
- NEW ROADWAY PAVING SHALL BE 2" F.D.O.T. TYPE SP 12.5 ASPHALTIC CONCRETE SURFACE.
- SEE PLANS FOR SWALE LOCATIONS.



NOTES:

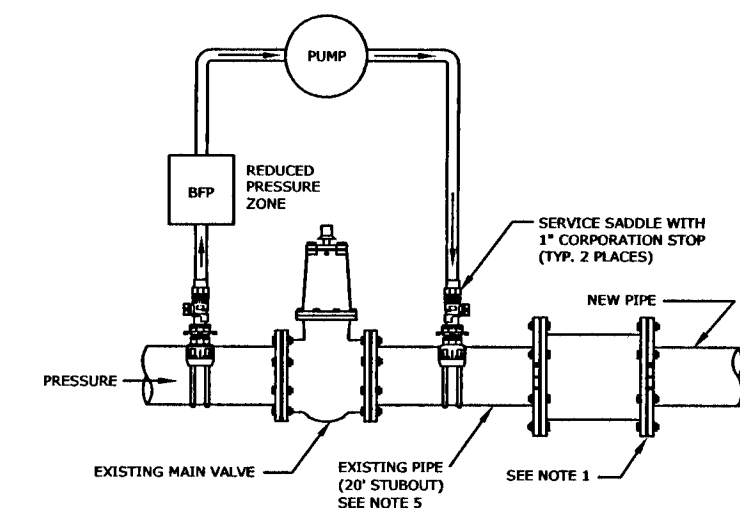
- RESIDENTIAL GRINDER PUMP STATION SHALL BE MAINTAINED BY THE CUSTOMER. IT IS RECOMMENDED THAT ALL PUMP STATIONS BE A SEMI-POSITIVE DISPLACEMENT TYPE. A CHECK VALVE AND BALL VALVE SHALL BE PROVIDED AT THE PUMP STATION AND MAINTAINED BY THE CUSTOMER.
- EACH CUSTOMER SHALL HAVE A SEPARATE "LOW PRESSURE RESIDENTIAL SEWER SERVICE" (SEE ABOVE DETAIL). ALL COMPONENTS ON CUSTOMER SIDE OF VALVE BOX ARE RESPONSIBILITY OF CUSTOMER.
- THE "LOW PRESSURE RESIDENTIAL SEWER SERVICE" SHALL BE LOCATED IN THE CENTER OF THE LOT UNLESS OTHERWISE INDICATED ON CONSTRUCTION PLANS.
- IF LONG SERVICE (UNDER ROAD), PROVIDE 3" GREEN PE CASING, MIN. 24" COVER UNDER ROADWAY AND/OR DITCH.

LOW PRESSURE RESIDENTIAL
SEWER SERVICE

D-20

NOTES:

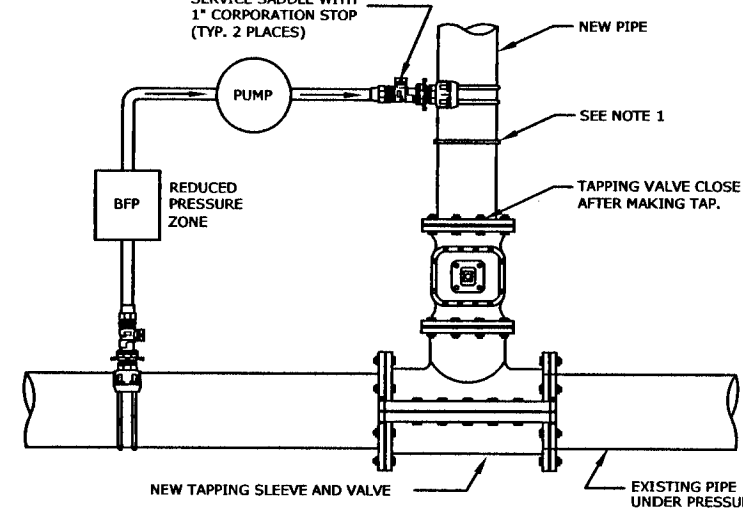
- NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO E.C.U.A.
- THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. E.C.U.A. INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
- ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACK FLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
- CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE E.C.U.A. INSPECTOR. E.C.U.A. SHALL COLLECT TEST SAMPLES. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF CHLORINATED WATER.
- IF 20" STUB OUT IS NOT PRESENT, SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING,
FLUSHING AND CHLORINATION (EXISTING STUBOUT)

NOTES:

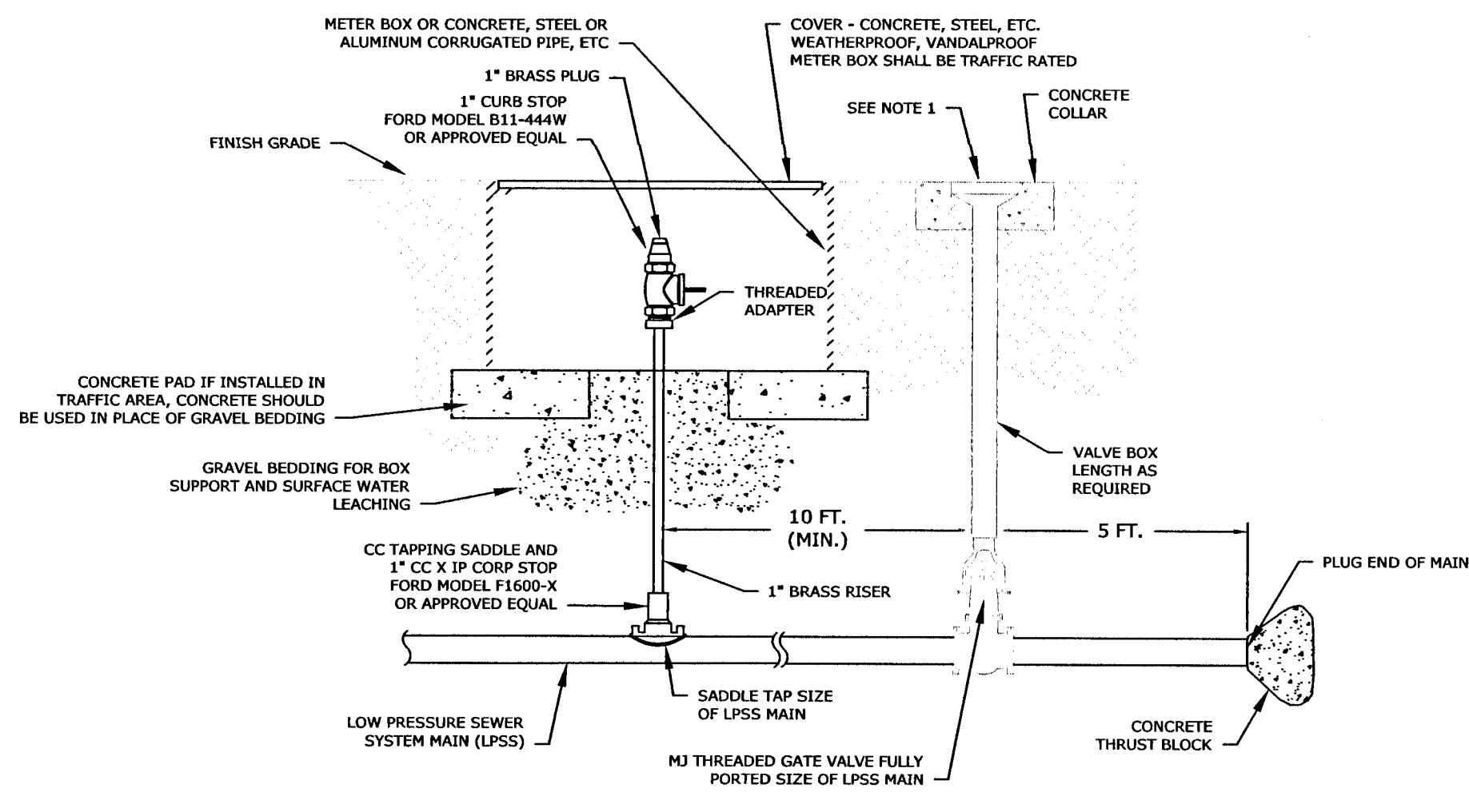
- NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.
- THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. E.C.U.A. INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
- ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACK FLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
- CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE E.C.U.A. INSPECTOR. E.C.U.A. SHALL COLLECT TEST SAMPLES. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF CHLORINATED WATER.



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING,
FLUSHING AND CHLORINATION (TAPPING SLEEVE AND VALVE)

TYPICAL
CHLORINE DISINFECTION

D-41

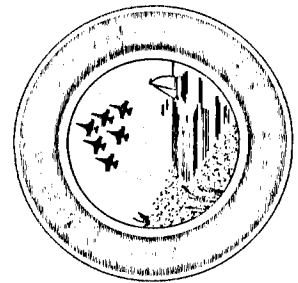


NOTES:

- TERMINAL FLUSHING CONNECTIONS OF 2" WILL NOT REQUIRE THE VALVE AND PIPING FOR FUTURE EXPANSION.

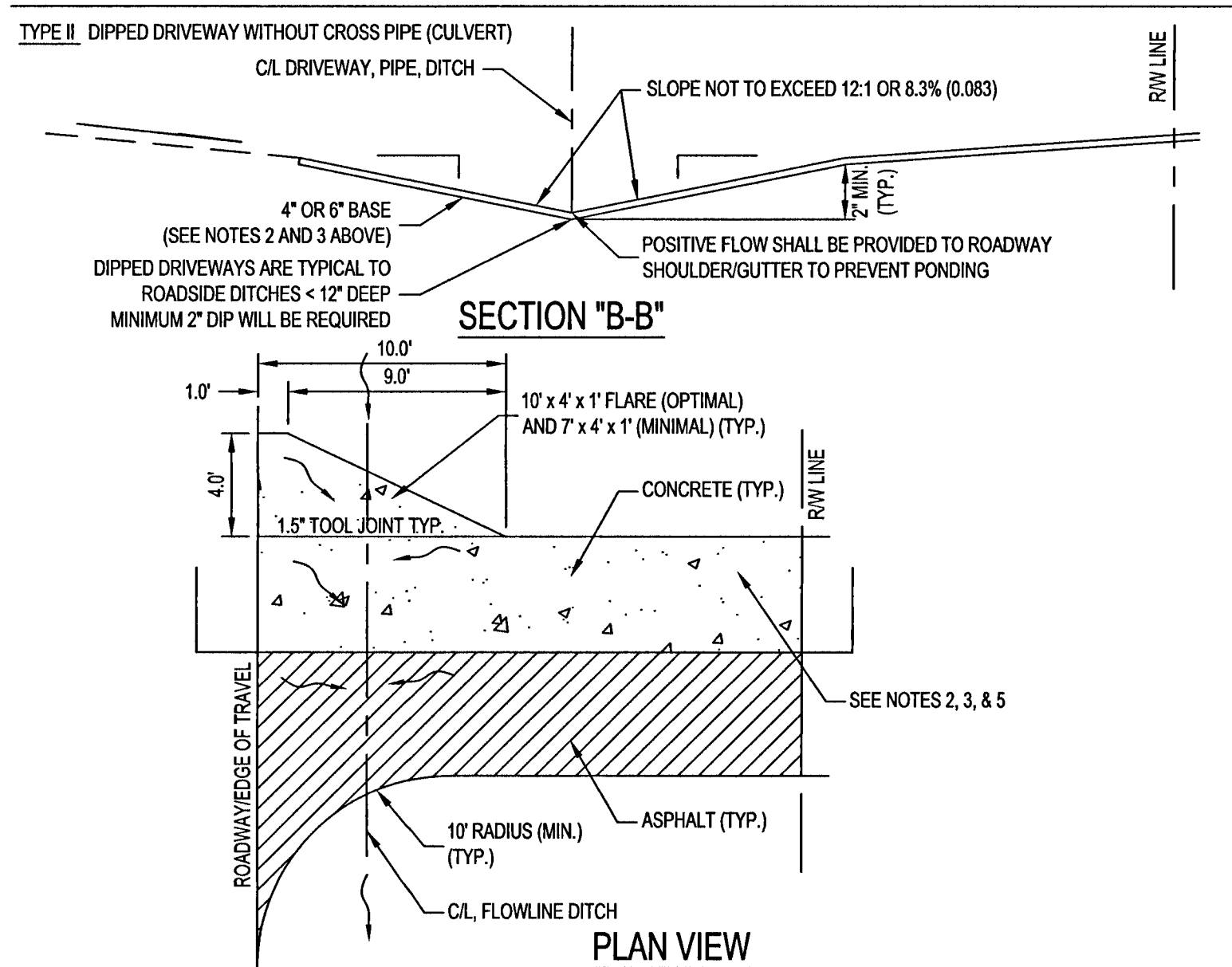
TERMINAL FLUSHING CONNECTION

D-22



EXCELLENCE IN ENGINEERING SERVICE 8874 Turkey Burn Road Neville, Florida 33556 p: (888) 889-5735 e: eric@longeng.com		CERTIFICATE OF AUTHORIZATION STATE OF FLORIDA ENGINEER ERIC LONG LICENSE NO. 12509 SIGNATURE: [Signature] DATE: 3/3/2021	
CHECKED BY: WVP II	DESIGNED BY: DEL	PROJECT MANAGER: NICOLAS CHAUVIN	DISTRICT: 2
DRAWN BY: END	DATE: MARCH 2021	SECTION / TOWNSHIP / RANGE 14-38-32W	

APPROVED BY:	DATE:	REVISIONS:	NUMBER:
DRAWING NUMBER		C-800	
PROJECT NUMBER		170001-004	
SURVEY NUMBER		2019.013/L-4903	
SHEET		33 OF 61	

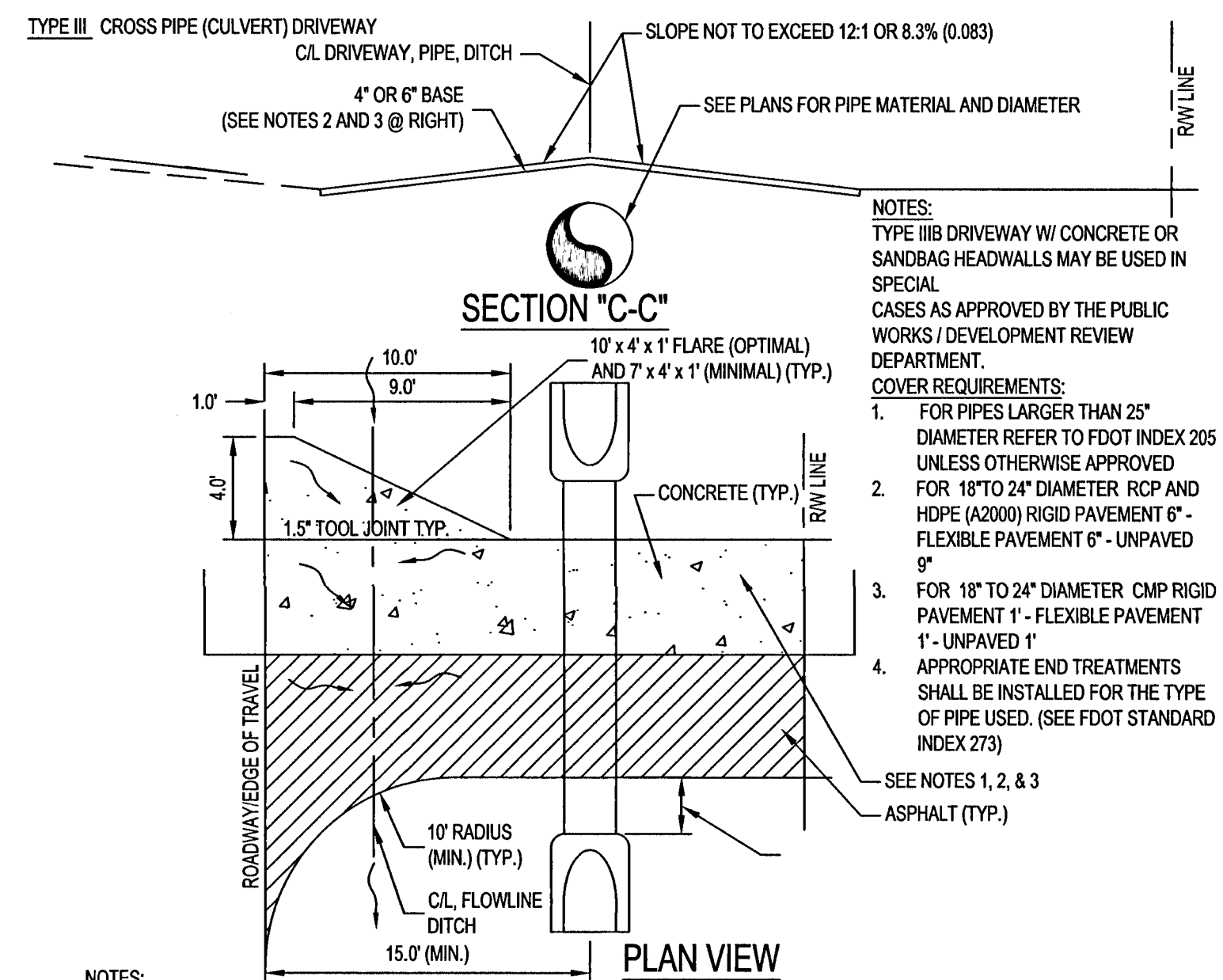


- NOTES:**
1. ALL MATERIALS AND LABOR FOR INSTALLATION WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER/CONTRACTOR.
 2. RESIDENTIAL DRIVEWAYS ADJUTING ROADWAYS SHALL BE 12" SPACED WITH A STABILIZED SUBGRADE OR A CONCRETE WITH A STABILIZED SUBGRADE - 8% COMPACTION IMMEDIATELY WITHIN 48 HOURS OF FINISHING. SIDEWALKS AND DRIVEWAYS, COMPACTED AND FINISHED, SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.
 3. DRIVEWAYS ADJUTING A DRIVE ROAD SHALL BE MILLED ASPHALT, GRADE ADJUSTMENT BASE, OR CRUSHED CONCRETE (IF DEPTH ON THE COUNTY MAINTAINED PORTLAND OF APPROVED).
 4. IF NECESSARY, REFER TO FOOTING NOTICES AS REFERENCED BELOW.
 5. RADIIUS OF CURVE IS REQUIRED FOR TYPE I OR TYPE II CONNECTIONS. SEE DETAIL.
 6. PARKING SPACES WITHIN RIGHT-OF-WAY SHALL PROVIDE A MINIMUM OF 2 PARKING SPACES.
 7. TYPICAL DRIVEWAY SECTIONS ARE TO BE 12 FEET MINIMUM. (SEE NOTE FOR PAVEMENT TYPES AND DEPTHS).
 8. WHENEVER SLOPES SHALL NOT BE EXCEEDED. WHENEVER A CORRECTION IS REQUIRED, AN ATTEMPT SHALL BE MADE TO CORRECT THIS TYPE OF PROBLEM.
 9. FOR COUNTY IMPROVEMENT PROJECTS, REPLACEMENT DRIVEWAYS SHALL MATCH EXISTING WIDTHS AT ROADWAY EDGE OF TRAVEL, WITHOUT COMPROMISING SAFETY.

TYPE IV SPECIAL INNOVATIVE DRIVEWAY CONNECTION AS DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.) OR LICENSED CONTRACTOR APPROVED BY THE APPROPRIATE PUBLIC WORKS / DEVELOPMENT REVIEW STAFF AND REQUIRES A DETAILED PLAN SUBMITTAL FOR REVIEW PRIOR TO ISSUANCE OF PERMIT.

TYPE IV-A REQUIRES A F.D.O.T. CONNECTION PERMIT (PROVIDE APPROVED F.D.O.T. PERMIT TO OBTAIN COUNTY APPROVAL). REFER TO INDEX NO. 515 AND CONTACT F.D.O.T. AT (850) 981-3000. MAINTAINANCE PLAN PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.).

TYPE II DRIVEWAY CONNECTION STANDARDS
NOT TO SCALE



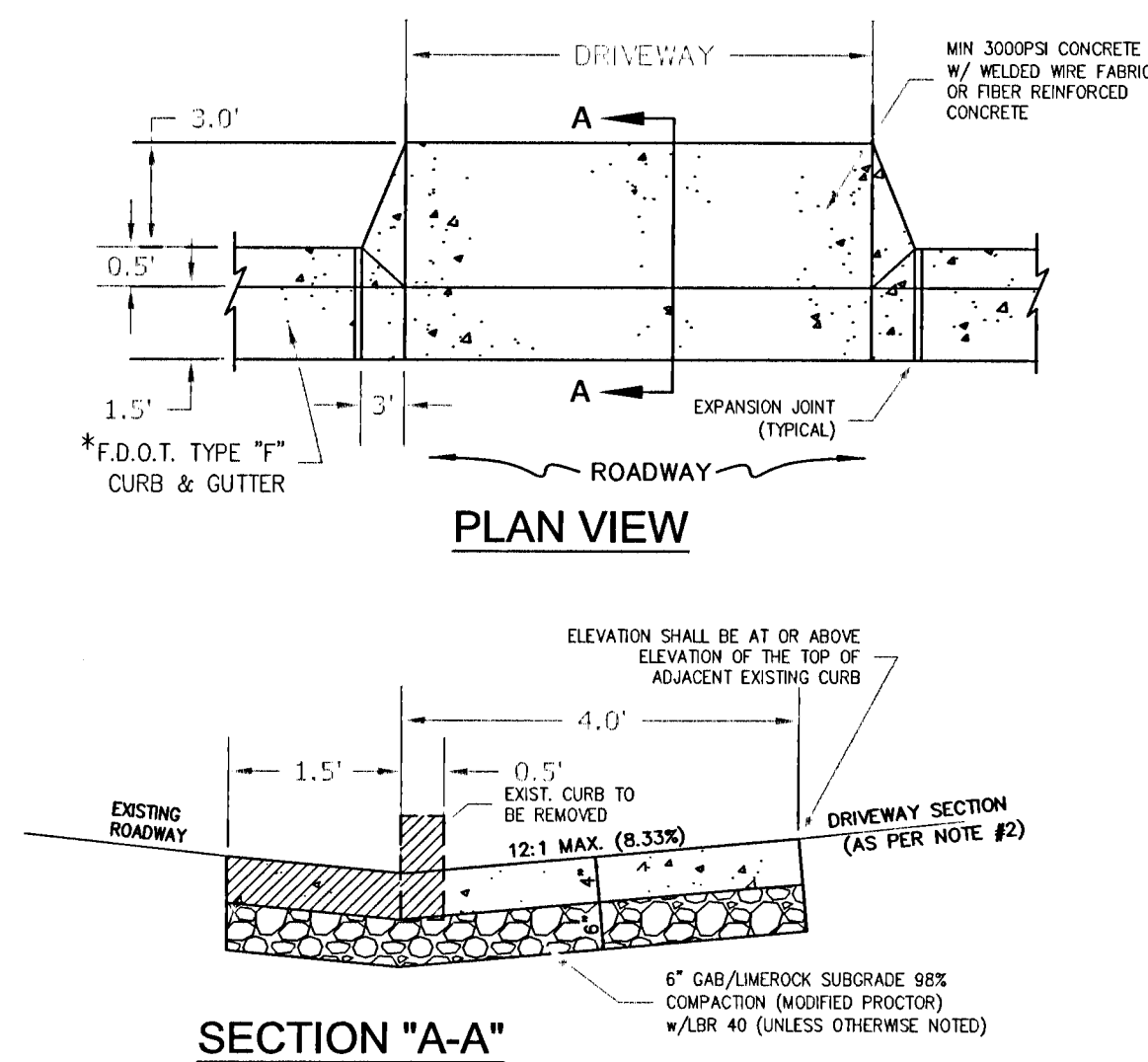
- NOTES:**

 - ALL MATERIALS AND LABOR FOR INSTALLATION WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER/CONTRACTOR.
 - RESIDENTIAL DRIVEWAYS INSTALLING PAVED PAVING SHALL BE 1" - 4" ASPHALT WITH 8" STABILIZED SUB GRADE OR 4" CONCRETE WITH 8" STABILIZED SUB GRADE - 10% COMPACTION UNIFORMITY.
 - PROTECTRY WITH 4" OR 4.5" DIA. RIGID POLYESTER CONCRETE. COMPACTION AND TESTING OF MATERIAL SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.
 - DRIVEWAYS ABUTTING A DIRT ROAD SHALL BE MILLED ASPHALT, GRADE AGGREGATE BASE, OR WASHER CONCRETE (IF DEP'TY) ON THE COUNTY MAINTAINED PORTION OF HIGHWAY.
 - IF NECESSARY, REFER TO ROAD NOTES DATES AS REFERENCED BELOW.
 - GRADING OR PAVING IS REQUIRED FOR TYPE B FOR TYPE B CONNECTIONS. (SEE DETAIL).
 - PARKING SPACES WITHIN COUNTY RIGHT-OF-WAY SHALL PROVIDE A MINIMUM OF 4 PARKING SPACES.
 - TYPICAL DRIVEWAY SECTIONS ARE TO BE 12' WIDE MINIMUM. (SEE NOTE #2 FOR EXISTING TYPES AND WIDTHS)
 - DRIVEWAYS SHALL BE 12' WIDE MINIMUM. (SEE NOTE #2 FOR EXISTING TYPES AND WIDTHS)
 - FOR COUNTY IMPROVEMENT PROJECTS, DRIVEWAY SPACES SHALL MATCH EXISTING WIDTHS AT ROADWAY EDGE OF TRAVEL WITHOUT COMPROMISING SAFETY.

TYPE IV-A SPECIAL INNOVATIVE DRIVEWAY CONNECTION AS DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.) OR LICENSED CONTRACTOR APPROVED BY THE APPROPRIATE PUBLIC WORKS / DEVELOPMENT REVIEW STAFF AND REQUIRES A DETAILED PLAN SUBMITTAL FOR REVIEW PRIOR TO ISSUANCE OF PERMIT.

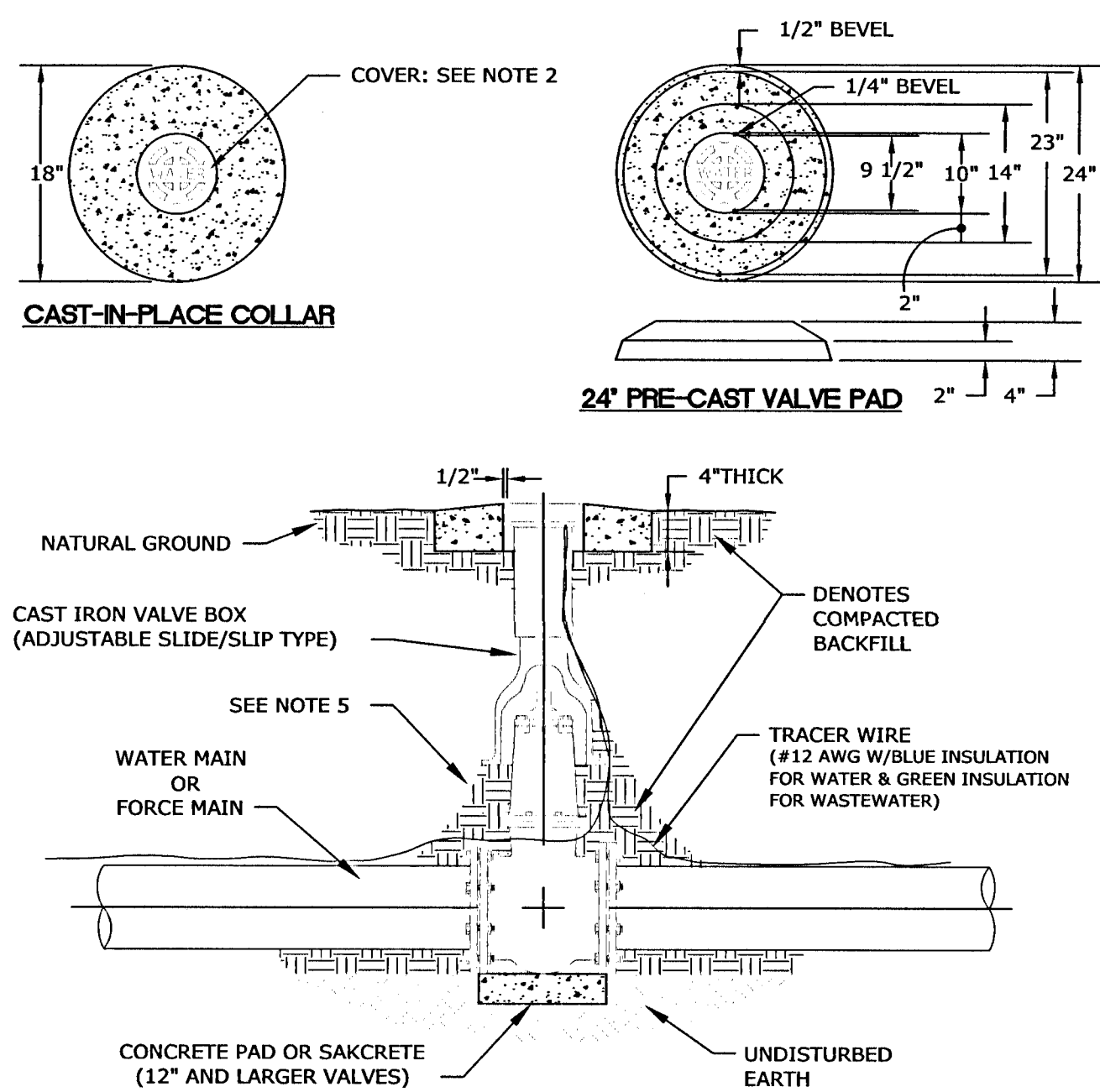
TYPE IV-A REQUIRES A F.D.O.T. CONNECTION PERMIT (PROVIDE APPROVED F.D.O.T. PERMIT TO OBTAIN COUNTY APPROVAL). REFER TO INDEX NO. 515 AND CONTACT F.D.O.T. AT (850) 981-3000. MAY REQUIRE PLANS PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.).

TYPE III DRIVEWAY CONNECTION STANDARDS
NOT TO SCALE



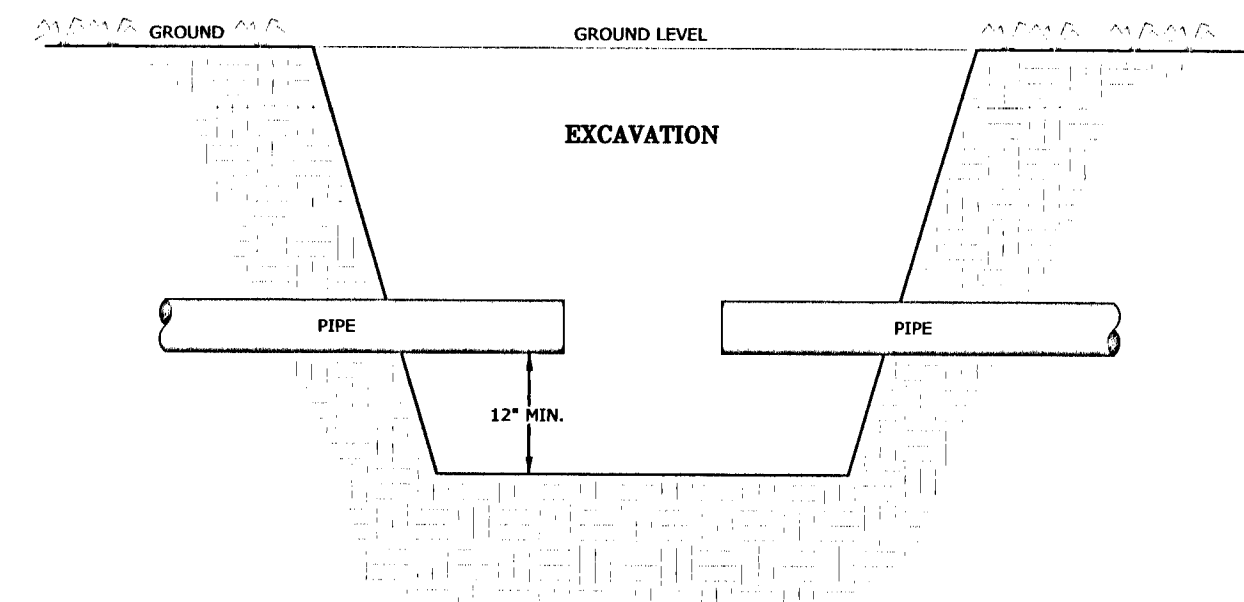
- NOTES:**
- 1.) SEE F.D.O.T. INDEX 300 CURB DETAILS FOR REFERENCE.
2.) SEE F.D.O.T. INDEX NO. 515 FOR OTHER CONNECTIONS.
* FOR OTHER TYPE CURBS, DIMENSIONS MUST BE ADJUSTED, WHEN NECESSARY TO FIT.

TYPE I CURB CUT DRIVEWAY FOR F.D.O.T. TYPE 'F' CURBS.



- NOTES:**
1. VALVE BOX AND BOOT SHALL BE CAST IRON.
 2. VALVE COVER SHALL BE MARKED "WATER" OR "SEWER" AS APPLICABLE
 3. VALVE BOX TOP & COLLAR SHALL BE FLUSH WITH FINISHED GRADE OR ½" ABOVE NATURAL GROUND LEVEL.
 4. GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS.
 5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.

TYPICAL VALVE & BOX INSTALLATION

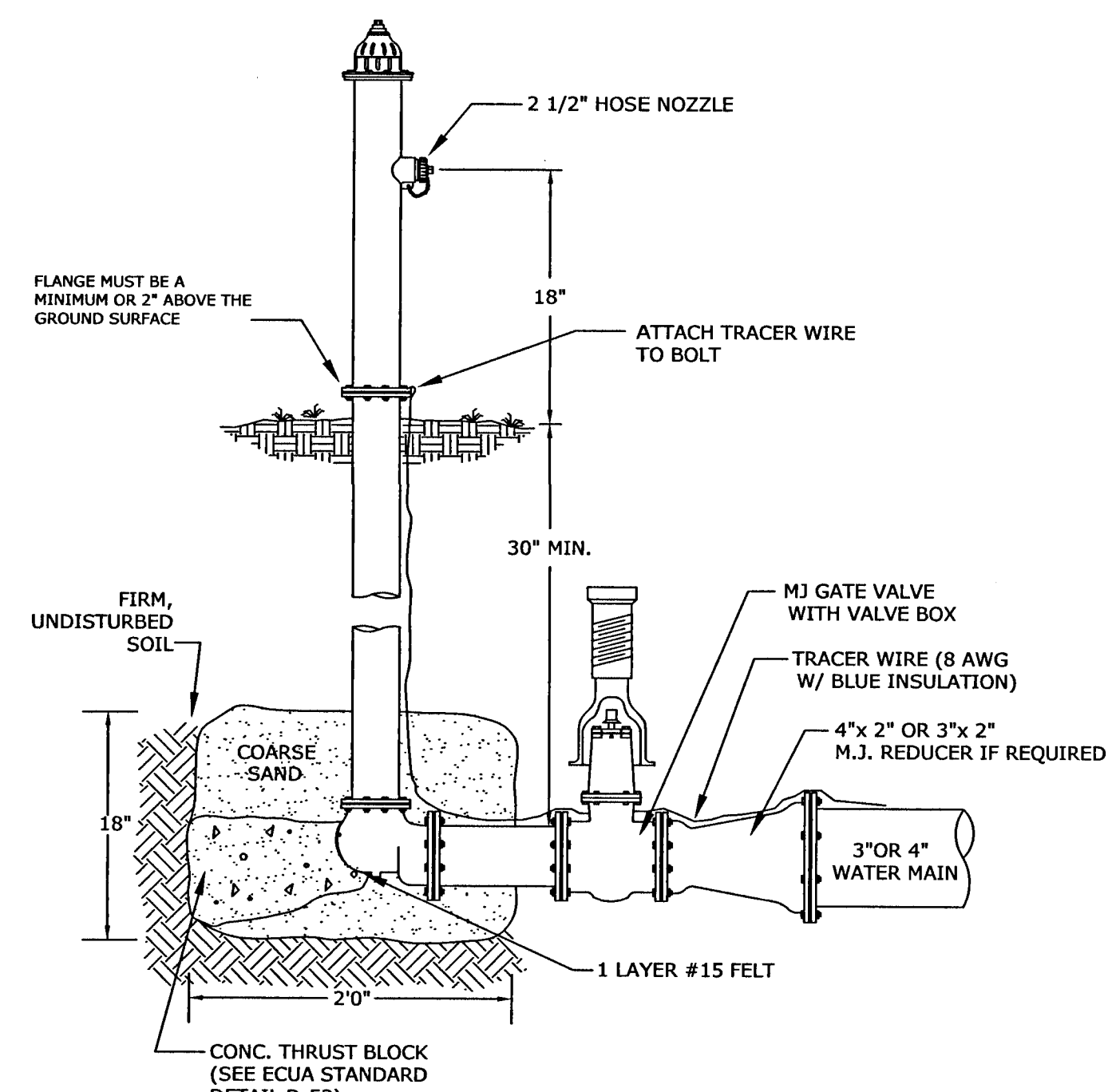


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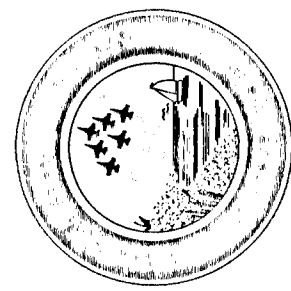
1. A CONTINUOUS OUTFLOW OF WATER FROM THE PIPE ON EACH SIDE OF THE REPAIR MUST BE MAINTAINED.
2. STANDING SURFACE, GROUND OR POTABLE WATER IN THE PIT (EXCAVATION) IS NOT ALLOWED TO REMAIN DURING PERIODS OF UNPRESSURIZED PIPE CONDITIONS, LESS THAN FULL PIPE FLOW OR WHENEVER FLOW IS NOT BEING MAINTAINED. ADDITIONALLY, SOIL SHOULD BE EXCAVATED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE PIPE INVERTS.
3. PRECAUTIONARY BOIL WATER NOTICES SHALL BE ISSUED WHEN THE CONDITIONS OUTLINED IN NOTES 1 AND 2 ABOVE ARE NOT MAINTAINED.
4. ALL REPAIR OR CONNECTION ITEMS, PIPING AND APPURTENANCES SHALL BE PROPERLY DISINFECTED OR SWABBED IN ACCORDANCE WITH RULE 62-555.340, F.A.C., AND AWWA STANDARD C651. AS A RECORD OF PROCEDURAL BMP EFFECTIVENESS, A MINIMUM OF ONE BACTERIOLOGICAL SAMPLE SHALL BE COLLECTED ON EITHER SIDE OF THE REPAIR ARE FOR TWO CONSECUTIVE DAYS. IF THE ANALYTICAL RESULTS ARE POSITIVE, A PBWM SHALL BE ISSUED AND TWO DAYS OF SATISFACTORY WATER QUALITY ANALYSIS ARE REQUIRED TO RESCIND THE BOIL WATER NOTICE.

EXISTING WATER MAIN
SHUTDOWN BEST
MANAGEMENT PRACTICES

D-46




TYPICAL 2" FLUSH HYDRANT D-51



EXCELLENCE IN ENGINEERING SERVICE
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 Navarre, Florida 33288
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 CERTIFICATE OF AUTHORIZATION: CH-00896

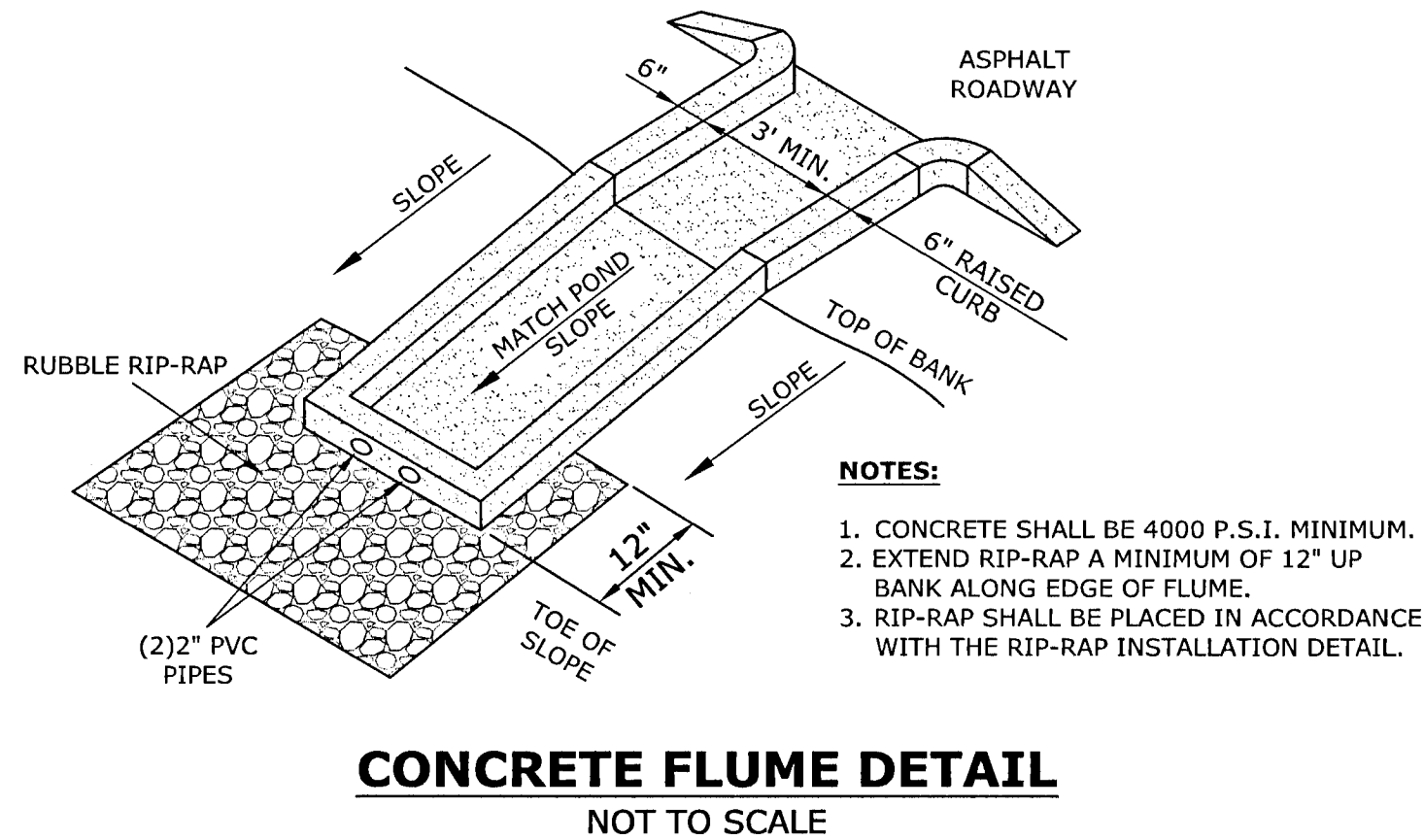
REG. A. ENG. NO. ★ DATE: ★
 5393 STATE OF FLORIDA
 SIGNATURE:

	DESIGNED BY:	CHECKED BY:	DISTRICT:
	DRAWN BY:	DEL	
DATE:	PROJECT MANAGER:	SECTION / TOWNSHIP / RANGE	
MARCH 2021	NICOLAS CHAUVIN	14-35-23W	
FIELD BOOK / PAGES:		CITY PR 451 PP 4/4	

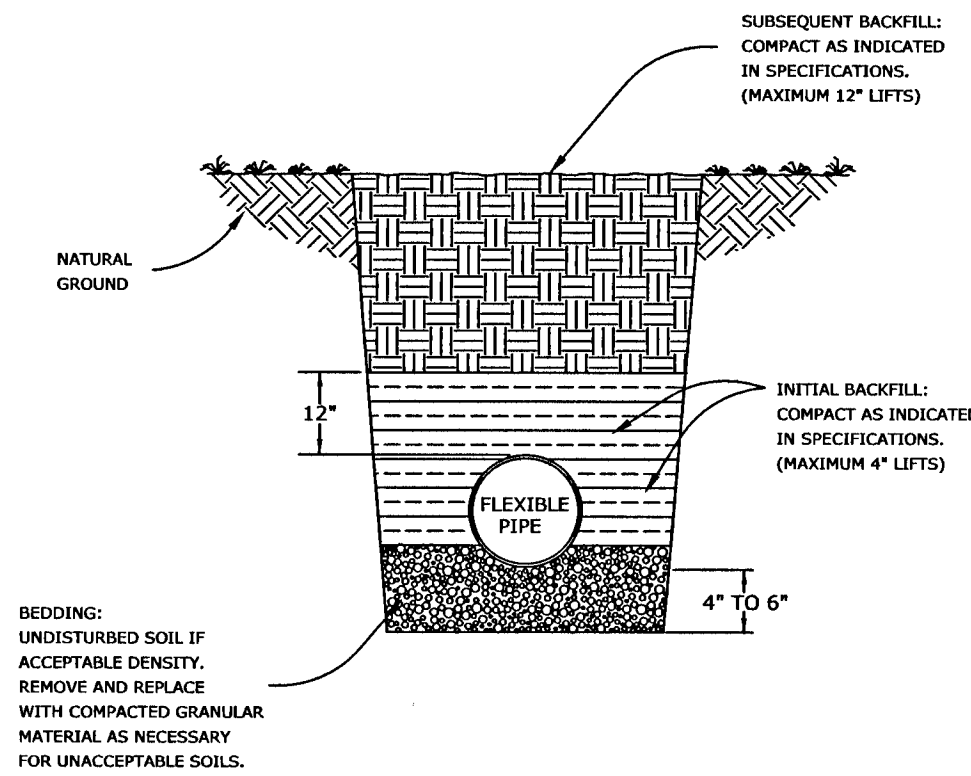
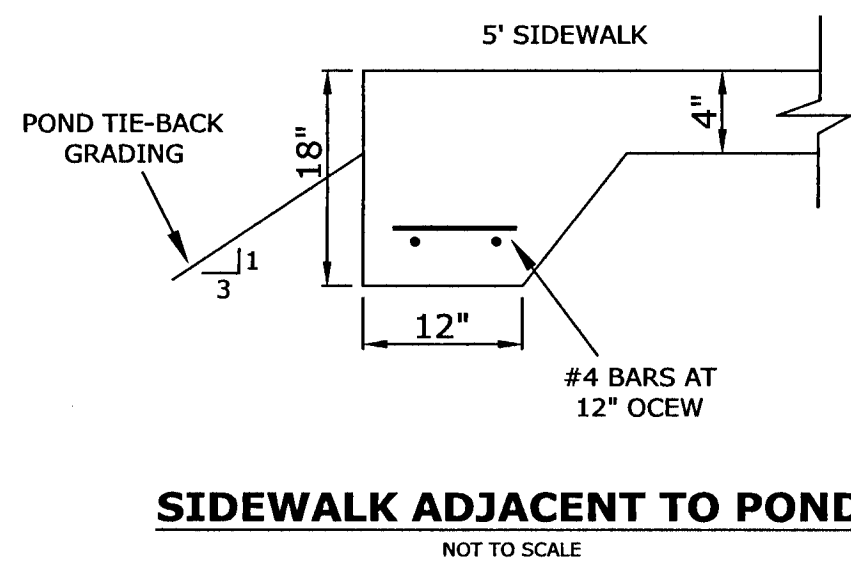
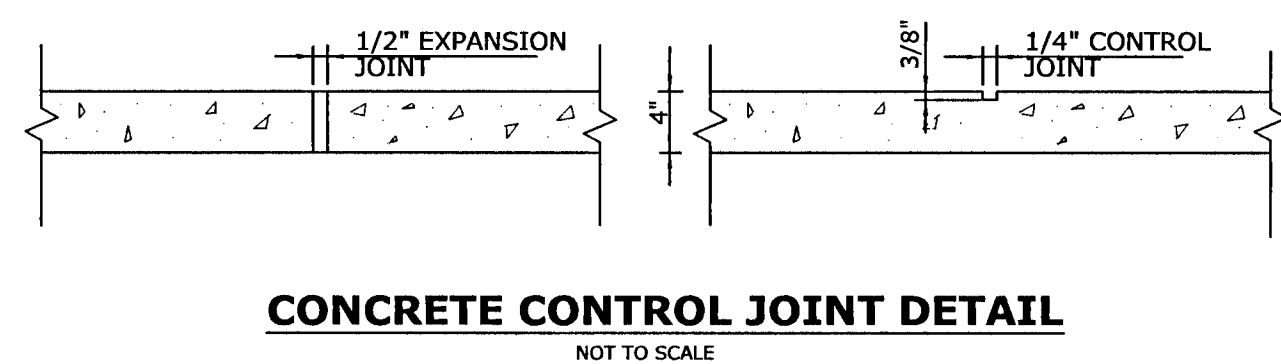
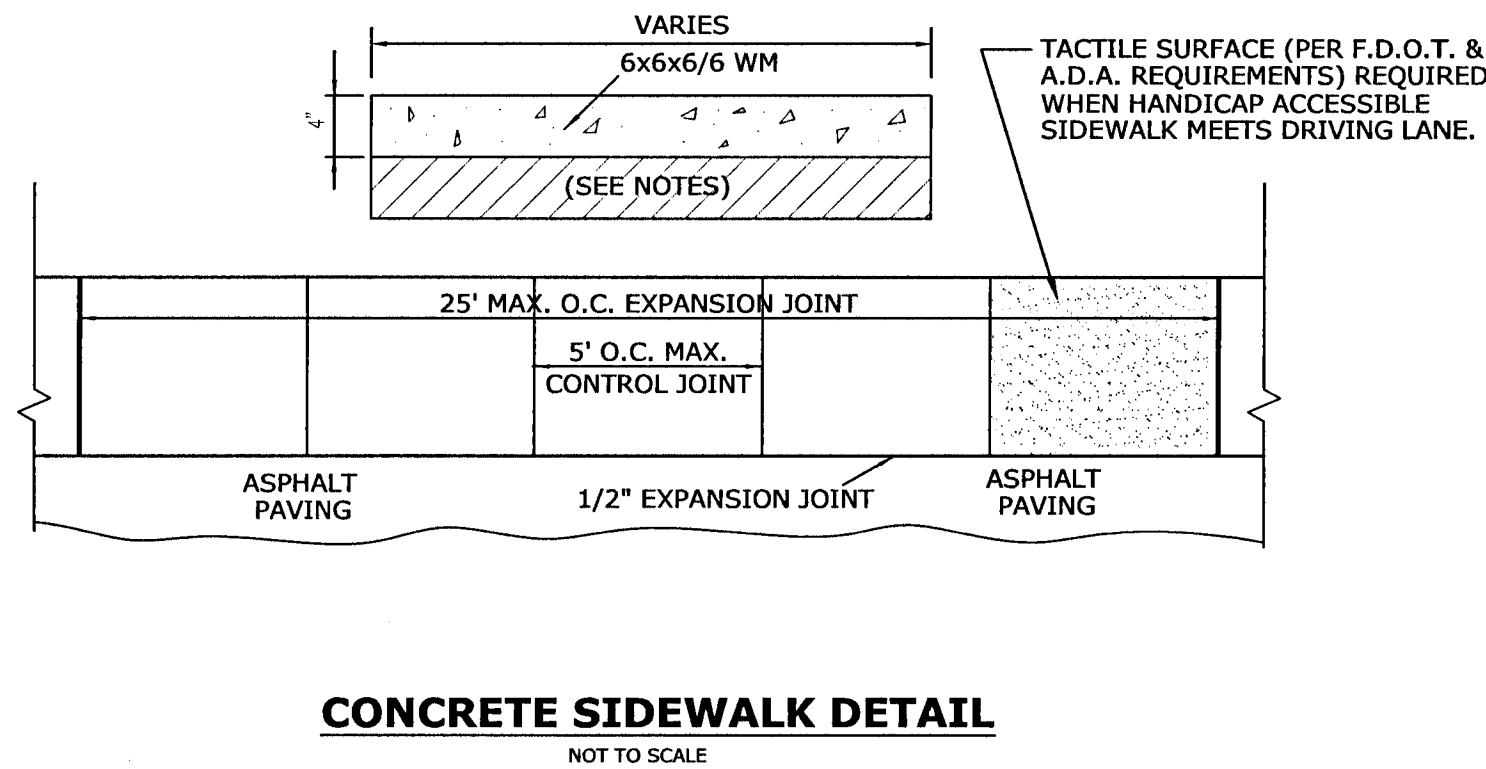
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DRAWING NUMBER	C-801
PROJECT NUMBER	170001-004
SURVEY NUMBER	RBA ESC CNTY 2019.013/L-4903

SHEET 34 OF 61



- NOTES:**
1. CONCRETE SHALL BE 4000 P.S.I. MINIMUM.
 2. FOR PEDESTRIAN TRAFFIC AREAS PROVIDE 8" STABILIZED SUB-BASE COMPACTED TO 95% MODIFIED PROCTOR.
 3. DECORATIVE CONCRETE SHALL BE REPAIRED OR REPLACED IN KIND AS APPLICABLE.



FLEXIBLE PIPE BEDDING

* ECUA STANDARD DETAIL D-61

SANITARY SEWER LINES (GRAVITY OR PRESSURE) SHALL HAVE 18" OR GREATER VERTICAL CLEARANCE BELOW ANY POTABLE WATER LINE WHEN CROSSING. A MINIMUM OF 6" VERTICAL CLEARANCE IS REQUIRED FOR OTHER UTILITIES. HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER LINE THAT IS PARALLEL TO AND LESS THAN 18" BELOW A POTABLE WATER LINE SHALL BE 10' OR GREATER. A MINIMUM OF 30" IS REQUIRED FOR OTHER UTILITIES.

IF THIS IS NOT POSSIBLE OR PRACTICAL, SEE NOTES BELOW:

PIPE JOINT RESTRAINT TABULATION

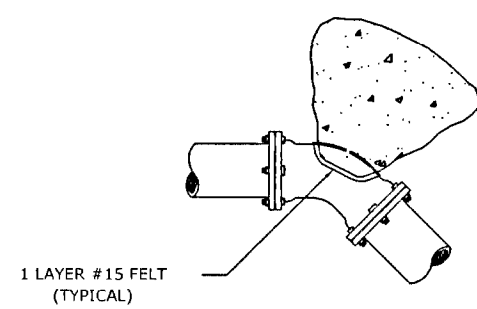
SHOWING DISTANCES IN FEET FROM THE FITTING TO BE RESTRAINED TO THE LAST RESTRAINING GLAND REQUIRED

PIPE SIZE AND TYPE	HORIZONTAL BENDS				DEAD ENDS	EQUAL TEES See note 3
	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.		
3" DI	18	8	4	2	33	1
4" DI	22	9	4	2	39	1
6" DI	31	13	6	3	55	1
8" DI	40	17	8	4	72	1
10" DI	48	20	9	5	86	1
12" DI	56	23	11	5	101	1
14" DI	70	29	14	7	129	1
20" DI	84	35	17	8	156	18
24" DI	96	40	19	9	181	41
4" PVC	28	12	6	3	62	1
6" PVC	39	16	8	4	87	1
8" PVC	50	21	10	5	114	1
10" PVC	60	25	12	6	136	1
12" PVC	70	29	14	7	160	1
16" PVC	88	36	17	9	205	1
20" PVC	105	43	21	10	247	29
24" PVC	120	50	24	12	287	64


NOTES : 1. Test pressure = 150 psi, soil group = SM, trench type = 3, depth = 2.5', safety factor = 2
2. Restrained lengths for vertical offsets, reducers & unequal size tees must be individually calculated.
3. With equal tees, the distances shown are with a run length of 40' as an example only. For other lengths and for unequal tees, individual calculations must be made.

PIPE JOINT RESTRAINT TABULATION

* ECUA STANDARD DETAIL D-62

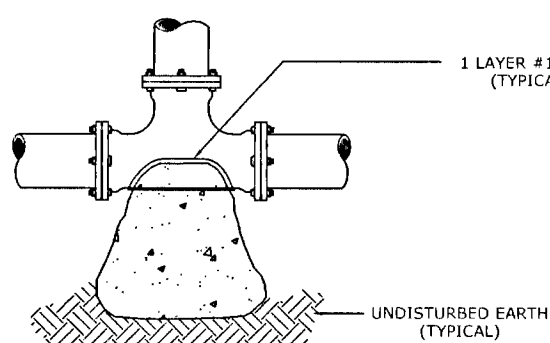


45° BEND - M.J.

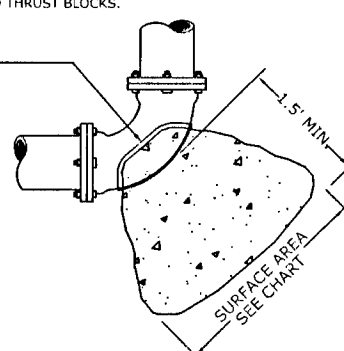
 FITTING PDF SIZE	DEAD END ON FILE	90° BEND	45° BEND	22.5° BEND
4"	1' x 2'	1.5' x 1.5'	1' x 1.5'	1' x 1'
6"	2' x 2'	2.5' x 2.5'	2' x 1.5'	1' x 1.5'
8"	2.25' x 3'	3' x 3'	2' x 2.5'	1.5' x 1.5'
10"	3.5' x 3'	4' x 3.75'	2.75' x 3'	2' x 2'
12"	4' x 4'	4' x 5'	3' x 4'	2' x 3'
16"	5' x 5.5'	6' x 6.5'	4' x 5'	3' x 3.5'

NOTES:

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



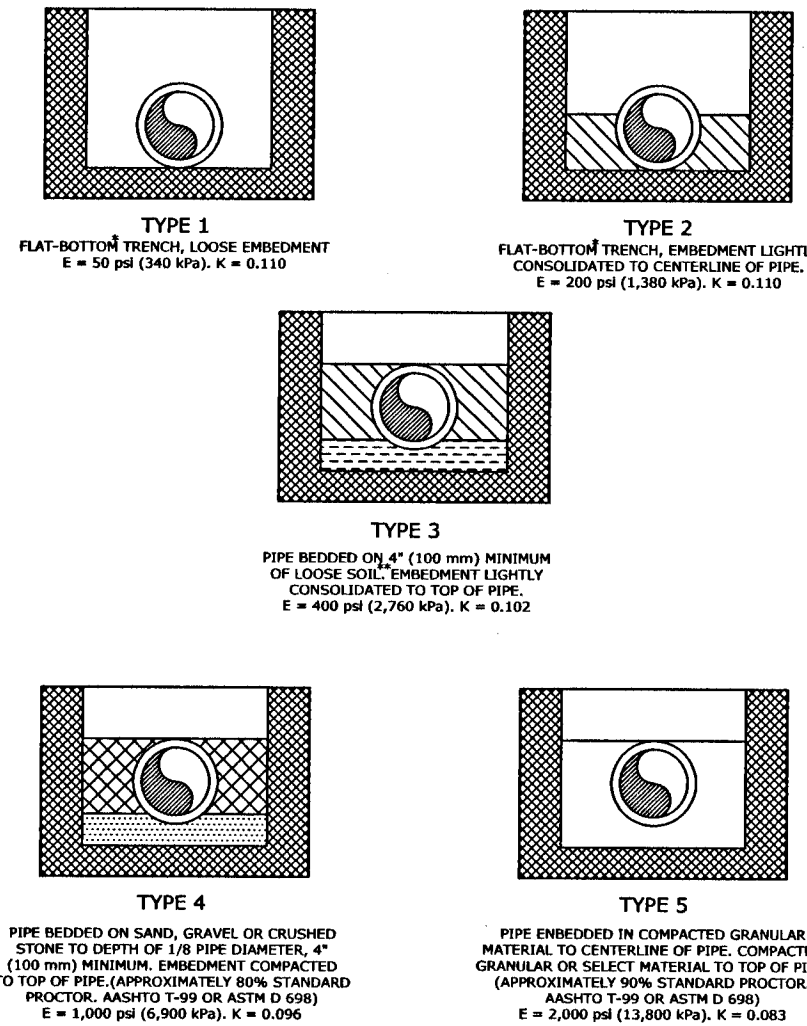
TEE - M.J.



90° BEND - M.J.

TYPICAL THRUST BLOCK INSTALLATIONS

N.T.S.
STANDARD DETAIL D-52



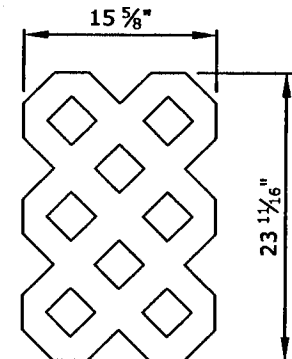
NOTE: REQUIRED EMBEDMENT TYPE WILL DEPEND ON THE PIPE'S DIMENSION RATIO, INTERNAL OPERATING PRESSURE, AND EXTERNAL LOAD, AND SHALL BE SPECIFIED BY THE PURCHASER.(SEE SEC. 5.3)

*** "LOOSE SOIL" OR "SELECT MATERIAL" IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. A SOFT "LOOSE SOIL" BEDDING WILL CONTOUR TO THE PIPE BOTTOM. CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE.

From AWWA C.605
UNDERGROUND INSTALLATION OF PVC PIPE

PIPE ENVELOPE REQUIREMENTS

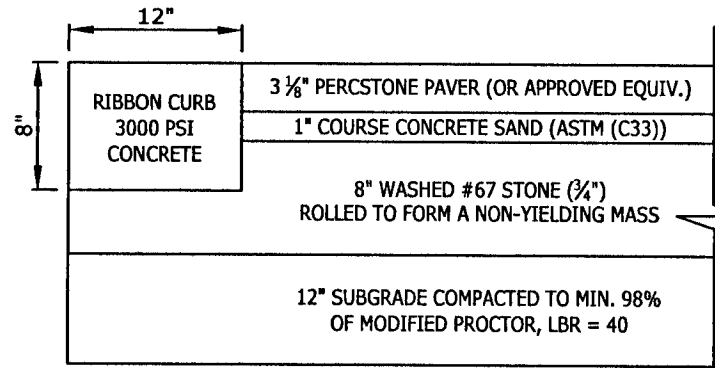
* ECUA STANDARD DETAIL D-60



NOTE:

1. PAVERS (OR ENGINEER APPROVED EQUIVALENT) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
2. CONTRACTOR SHALL BACKFILL OPENINGS WITH TOPSOIL AND GRASS SEEDS. COORDINATE WITH LANDSCAPING PLAN.
3. PAVING STONES MAY BE CUT WITH AN APPROVED CUTTER, TO MEET DIMENSIONS ON PLANS.

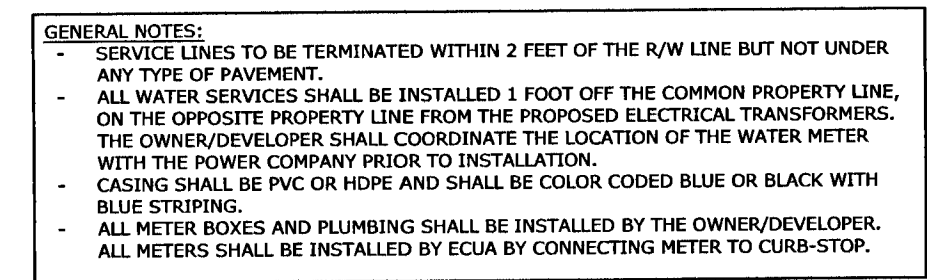
NOTE:
CONTRACTOR SHALL CAREFULLY FOLLOW MANUFACTURERS
RECOMMENDED INSTALLATION PROCEDURES FOR PLACEMENT
AND COMPACTION OF PAVERS.



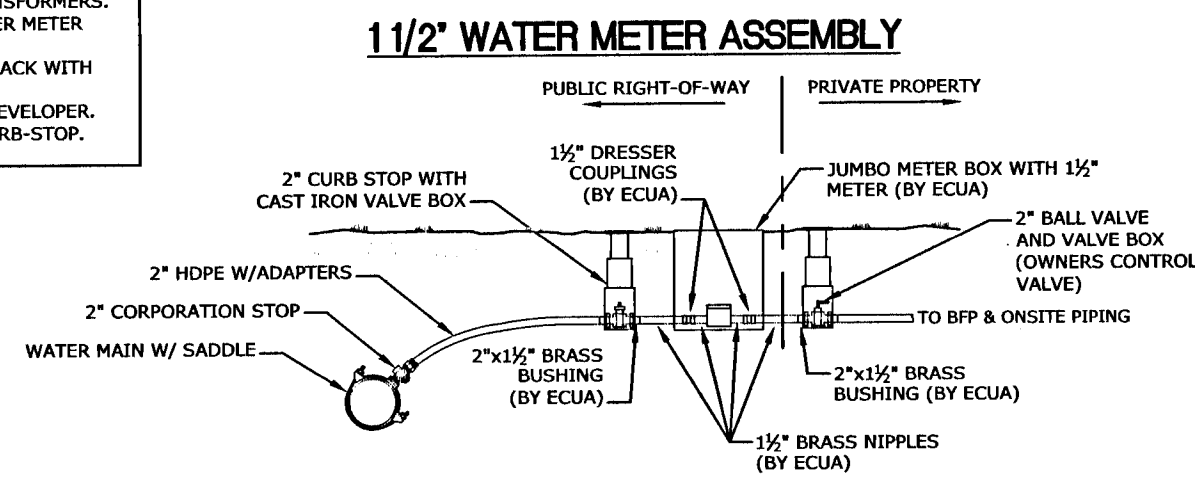
PAVER DETAIL

NOT TO SCALE

[illegible]

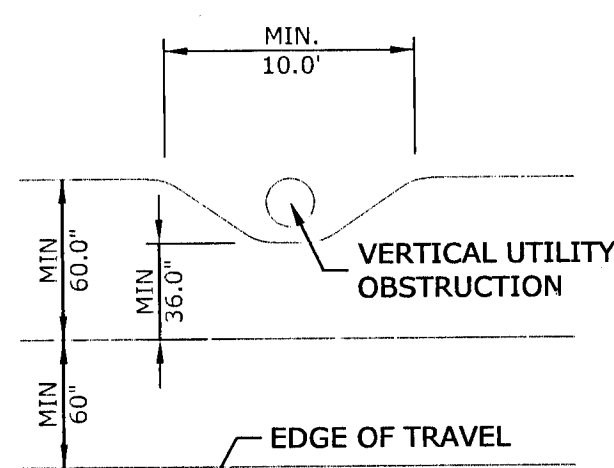


RECOMMENDED TUBING SIZES FOR WATER SERVICES			
SIZE OF METER	DESIGN FLOW (GPM)	MAX. LENGTH OF TUBING FOR SIZE INDICATED	
		1"	2"
¾"	20	92	2679
1"	50	17	492
1½"	100		136
SIZE OF CASING (LONG SERVICE ONLY)		2"	4"



WATER SERVICE FOR 5/8", 1", & 1 1/2" METERS

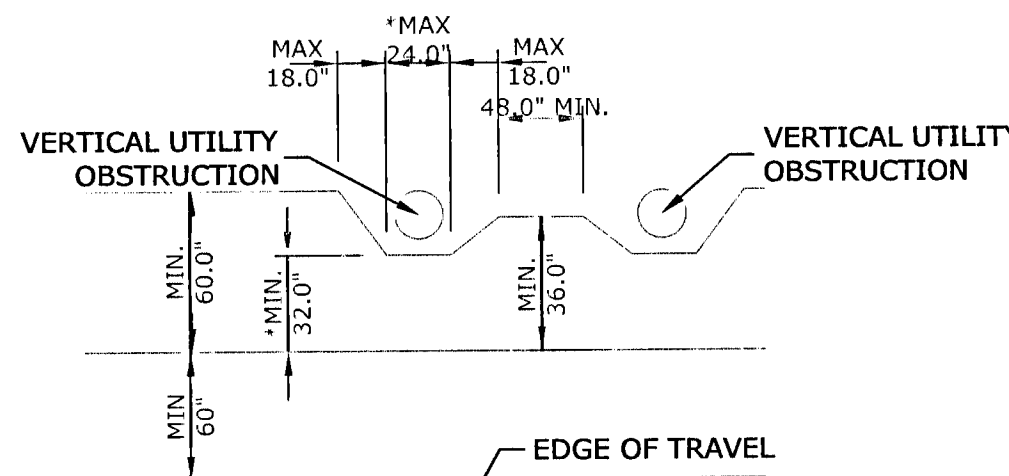
D-40



MINIMUM CLEAR WIDTH FOR
5.0' SIDEWALK DETAIL
WITH VERTICAL OBSTRUCTION

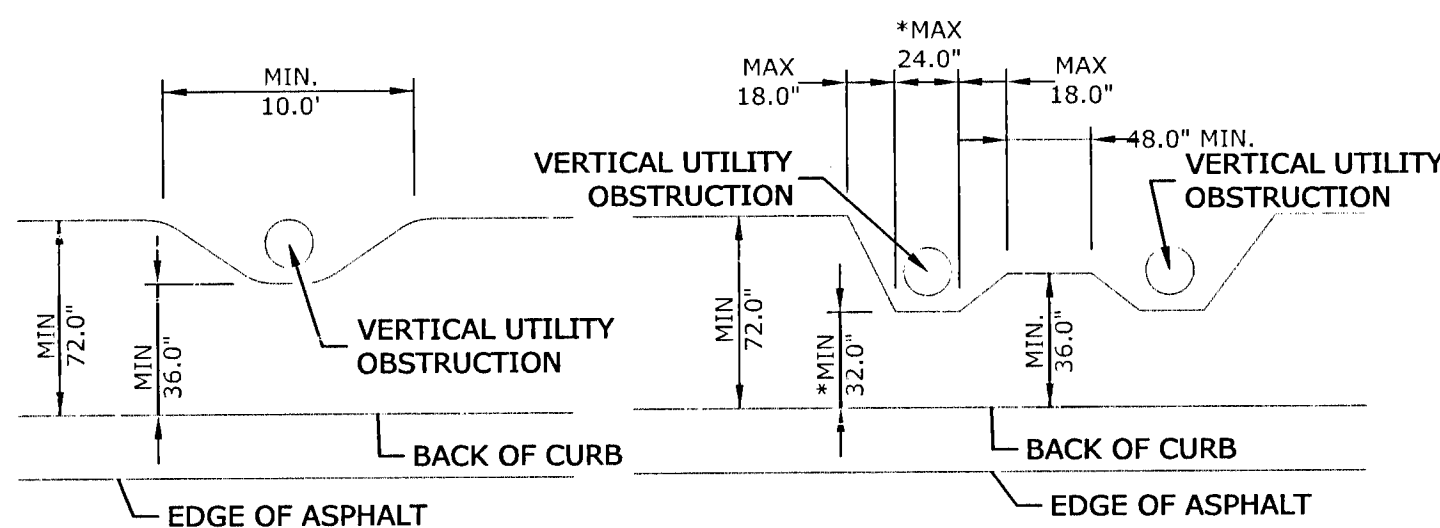
NOTE:

1. CONTRACTOR SHALL COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN, SECTION 403.5.1. AND FDOT DESIGN STANDARDS FOR MAILBOXES AS PER INDEX 532.
2. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 48" WIDE SIDEWALK PER PROWAC REQUIREMENTS. IF SIDEWALK CANNOT MEET THIS MINIMUM WIDTH, WRITTEN DOCUMENTATION TO UTILIZE PEDESTRIAN CLEAR WIDTH EXCEPTIONS AS STATED IN NOTE 3 MUST BE DOCUMENTED.
3. THE PEDESTRIAN CLEAR WIDTH OF WALKING SURFACES SHALL BE 36" MINIMUM. EXCEPTION: THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32" FOR A LENGTH OF 24" MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48" LONG MINIMUM AND 36" WIDE MINIMUM.
4. IF THE VERTICAL UTILITY OBSTRUCTION DOES NOT ALLOW FOR THE MINIMUM CLEAR PEDESTRIAN PATHWAY WIDTH, THE UTILITY OBSTRUCTION REQUIRES RELOCATION BY THE APPROPRIATE UTILITY PROVIDER.
5. MAILBOXES ON CURBED HIGHWAYS, ROADS AND STREETS SHALL BE SET WITH THE FACE OF THE BOX BETWEEN 6" AND 12" BACK OF THE FACE OF CURB AS PER FDOT INDEX 532



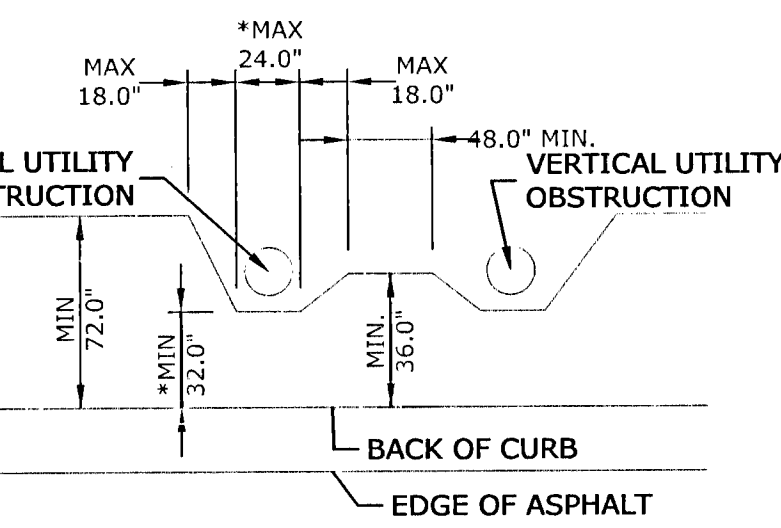
*SIDEWALK WIDTH MAY BE REDUCED
TO 32" FOR MAXIMUM SPAN OF 24"

NTS



MINIMUM CLEAR WIDTH FOR
6.0' SIDEWALK DETAIL
WITH VERTICAL OBSTRUCTION

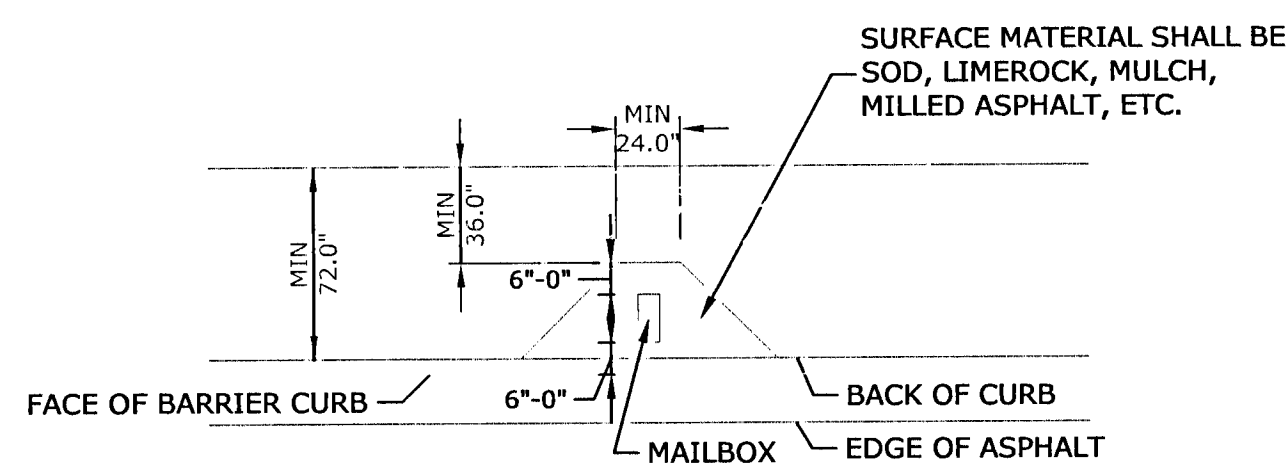
NIJ



**SIDEWALK WIDTH MAY BE REDUCED
TO 32" FOR MAXIMUM SPAN OF 24"**

**6.0' SIDEWALK EXCEPTION DETAIL
WITH VERTICAL OBSTRUCTION**

NIJ



6.0' SIDEWALK DETAIL
WITH MAILBOX LOCATION

NTS

SIDEWALK OBSTRUCTION DETAIL

NOT TO SCALE

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING • CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORMWATER FORCE MAIN	<p>WATER MAIN</p> <p>3 FT. MINIMUM</p> <p>OTHER PIPE</p>	<p>WATER MAIN</p> <p>12 INCHES IS THE MINIMUM, EXCEPT FOR STORM SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED</p> <p>OTHER PIPE</p>	<p>ALTERNATE 3 FT. MINIMUM</p> <p>WATER MAIN</p>
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN	<p>WATER MAIN</p> <p>10 FT. PREFERRED 6 FT. MINIMUM (2)</p> <p>OTHER PIPE</p>	<p>WATER MAIN</p> <p>12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED</p> <p>OTHER PIPE</p>	<p>ALTERNATE 6 FT MINIMUM</p> <p>WATER MAIN</p>

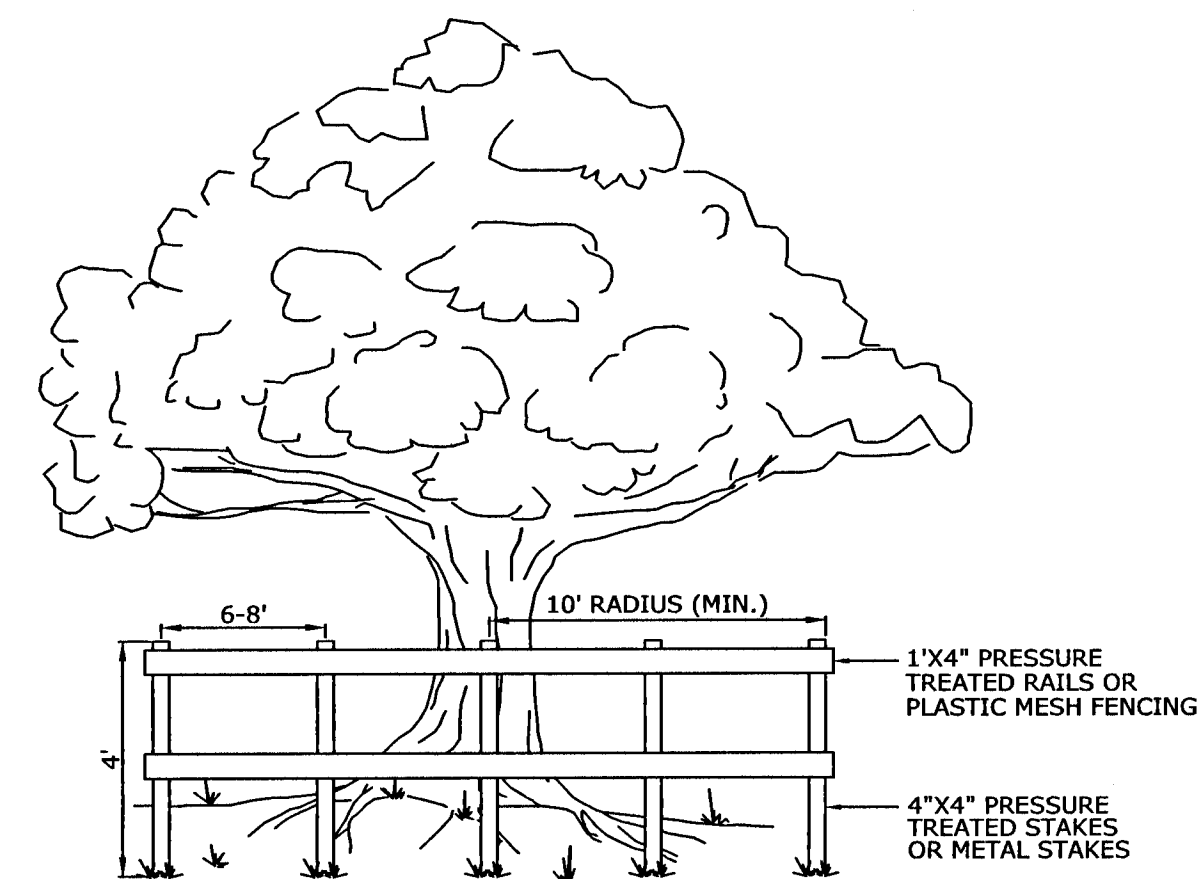
- (1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
- (2) 3 FT. GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.

NOTES:

- A. INFORMATION PROVIDED FROM FDEP RULE 62-555. IF OTHER FDEP RULES CONFLICT, THEN USE THE MOST STRINGENT RULE.
- B. IF THERE ARE CONFLICTS IN THE SEPARATION REQUIREMENTS BETWEEN COLLECTION SYSTEMS AND DRINKING WATER FACILITIES ESTABLISHED IN FOOTNOTES (1) AND (2) ABOVE AND THOSE ESTABLISHED IN CHAPTER 62-532 OR 62-555, F.A.C., THEN THE REQUIREMENTS IN CHAPTER 62-532 OR 62-555, F.A.C., SHALL APPLY.

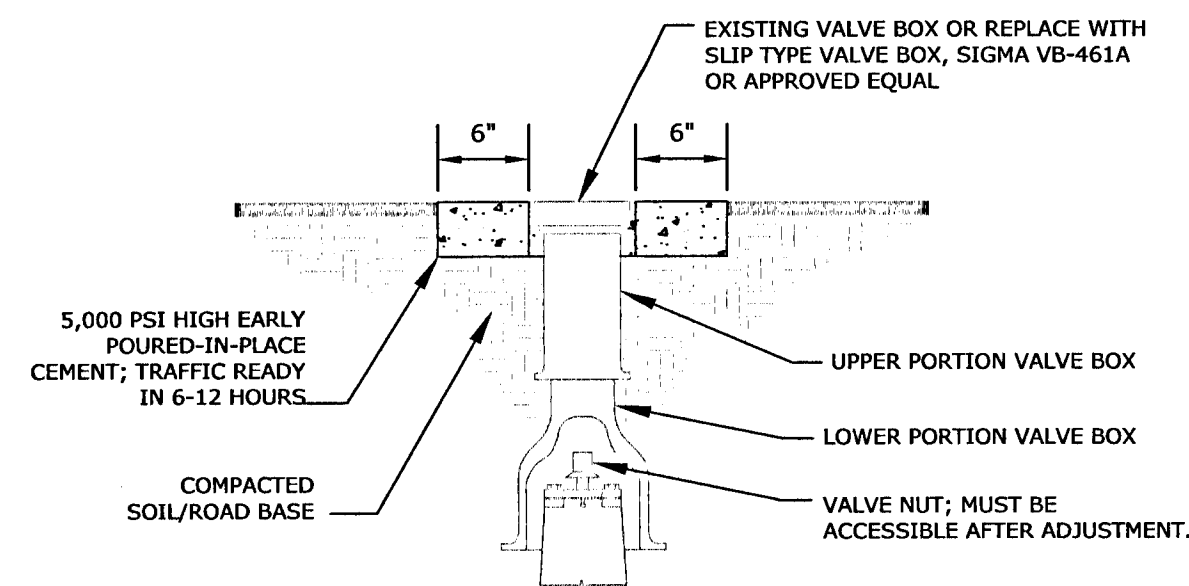
WATER / SEWER SEPARATION

D-64



TREE BARRICADE DETAIL

NOT TO SCALE



VALVE BOX (VB) ADJUSTMENT PROCEDURES:

Pre-milling coordination: Contractor shall contact ECUA's Manhole Coordinator, Mr. Eddie Carter (see D-83 ECUA Regional Services Map) at least 2 weeks prior to milling operations to coordinate location of VBs requiring adjustment (visible VBs and those under asphalt). ECUA will then make decision to either allow adjustment of existing VBs or to supply new VBs to contractor (at ECUA expense).

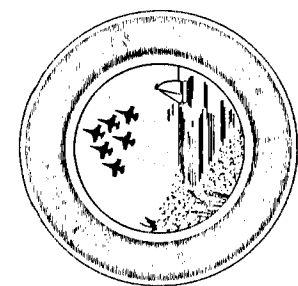
Pre-milling procedures: Contractor shall make a list of all VB locations (station and offset or GPS coordinates to sub-meter accuracy), and submit list to ECUA's Manhole Coordinator. If upper portion of VB is removable, then Contractor can remove upper portion of VB and install minimum ½" thick steel plate (or thicker if needed) over lower portion of VB at a depth to avoid milling operations. If upper portion of VB is not removable, then entire VB shall be removed, and new lower portion of VB shall be installed prior to paving. Contractor shall coordinate with ECUA's Manhole Coordinator on the supply of new valve boxes as needed. Contractor shall paint solid blue circle, one foot in diameter, directly over plate valve onto milled asphalt surfaces and leveling course surfaces and shall maintain painted mark for the duration of the project. Due to ECUA emergency access needs, VBs shall not be plated more than 1 month, with 2 weeks or less being preferred.

Post-resturfing procedure: Contractor shall determine location of VBs using light created in pre-milling stage and shall remove circular area of asphalt approximately 18" in diameter (equal to typical 6" lid and 12" wide concrete collar), centered over VB. Remove plate. Align lower portion of VB to be centered over valve nut and remove all material from VB to make nut free and clear from obstructions. For minor changes in grade, adjust upper portion of VB to match finished grade. Request from ECUA's Manhole Coordinator either extra-long lower sections or extra lower sections for deeper than normal installations (PVC pipe will not be allowed). VB and lid shall be set so that elevation and slope of lid matches finished road surface. Pour 5,000 psi concrete around VB to form 6" wide concrete collar that matches elevation and slope of finished road surface.

Post-resurfacing coordination: Roadway Inspector shall confirm all VBs have been adjusted and done so according to this detail. Contractor shall then contact ECUA's Manhole Coordinator for final ECUA inspection. VBs not meeting this detail, with valve nuts not accessible due to poor alignment of valve box or construction debris/dirt in bottom of VB, or not matching roadway elevation and slope, will be corrected as required prior to payment. Contractor shall provide 2 years warranty (1 year if performed on FDOT project) beginning on ECUA's date of acceptance.

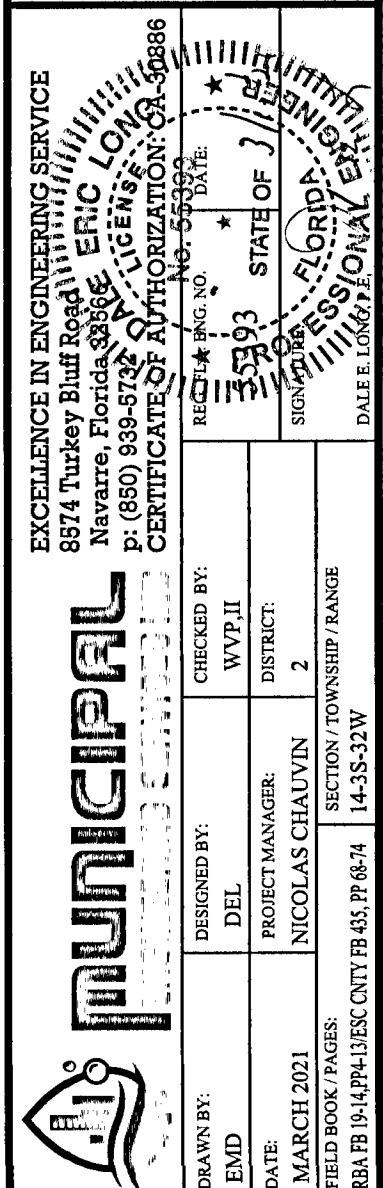
VALVE BOX ADJUSTMENT

D-59

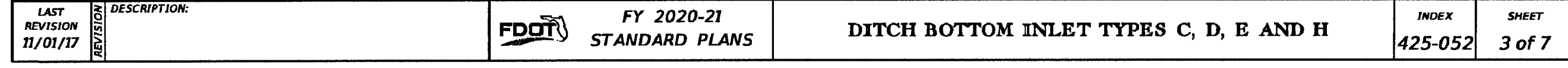


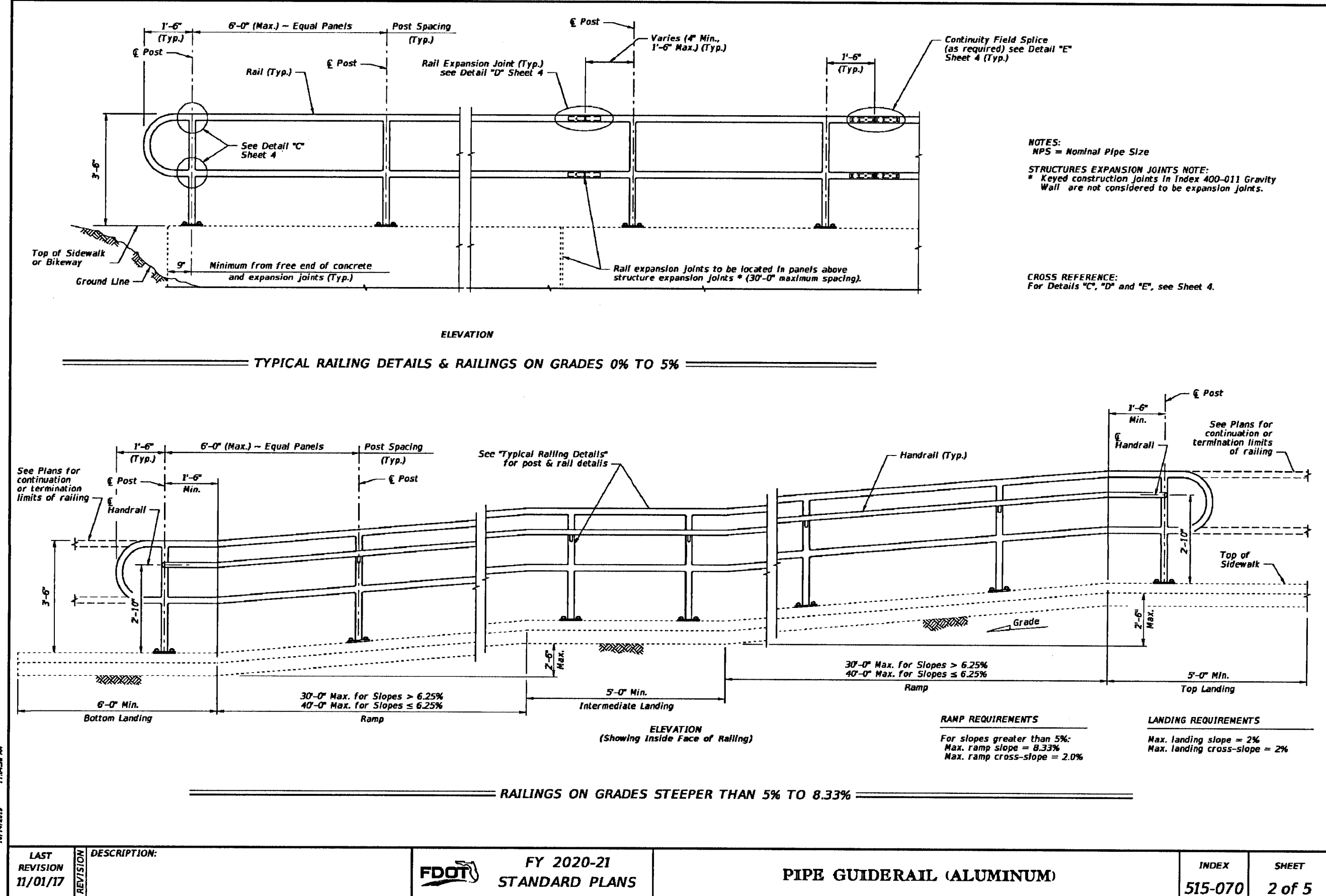
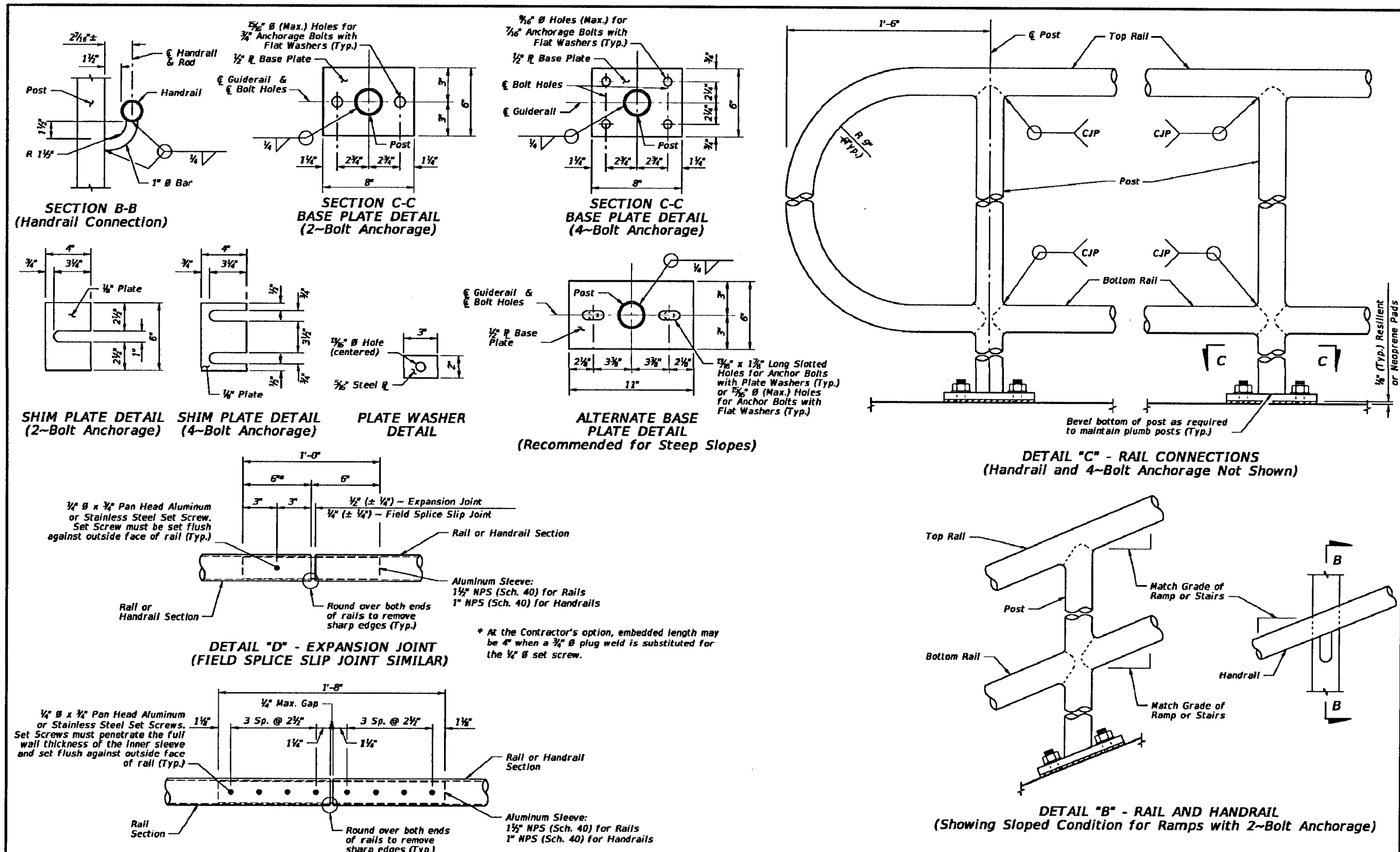
GALVEZ LANDING BOAT RAMP IMPROVEMENTS

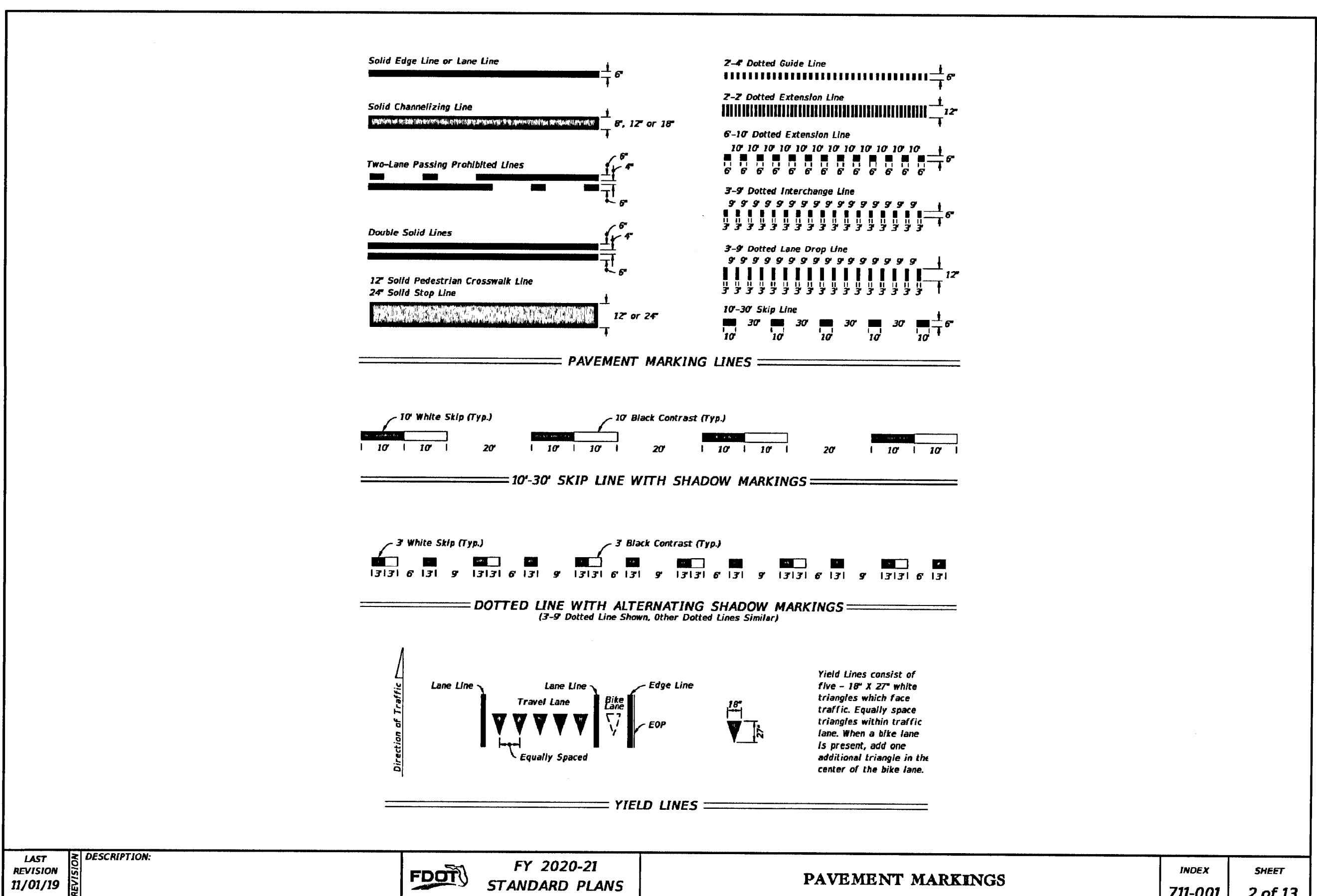
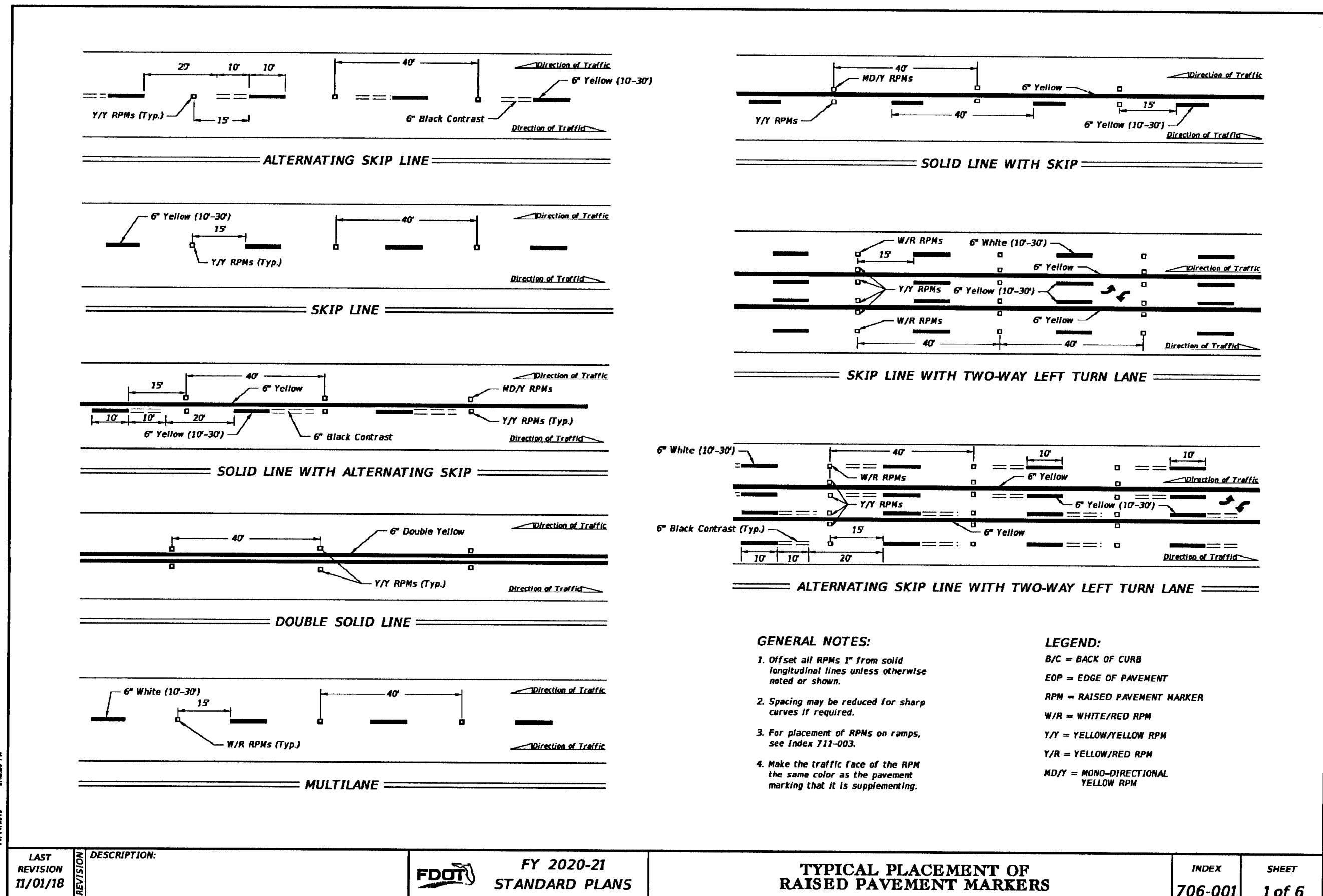
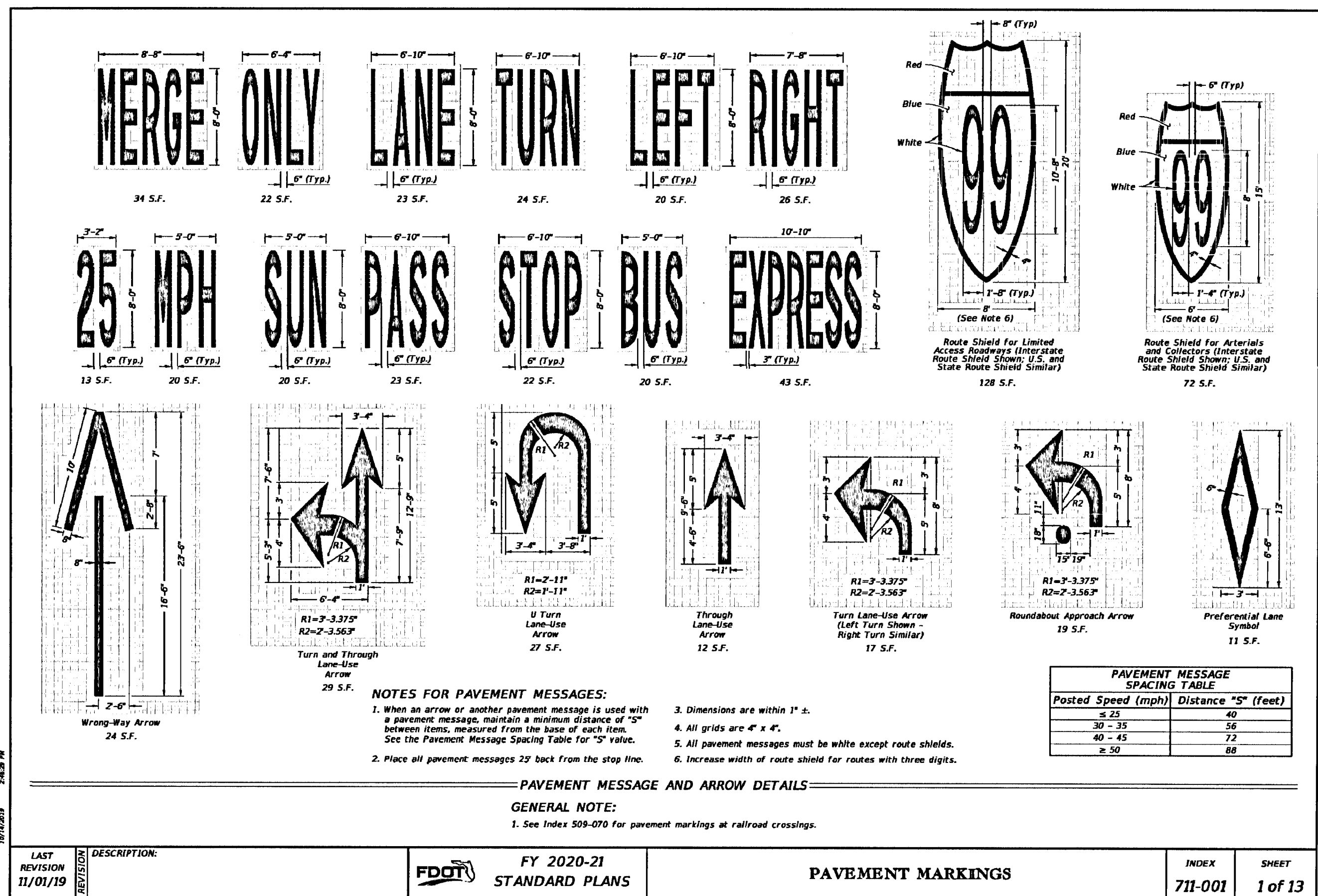
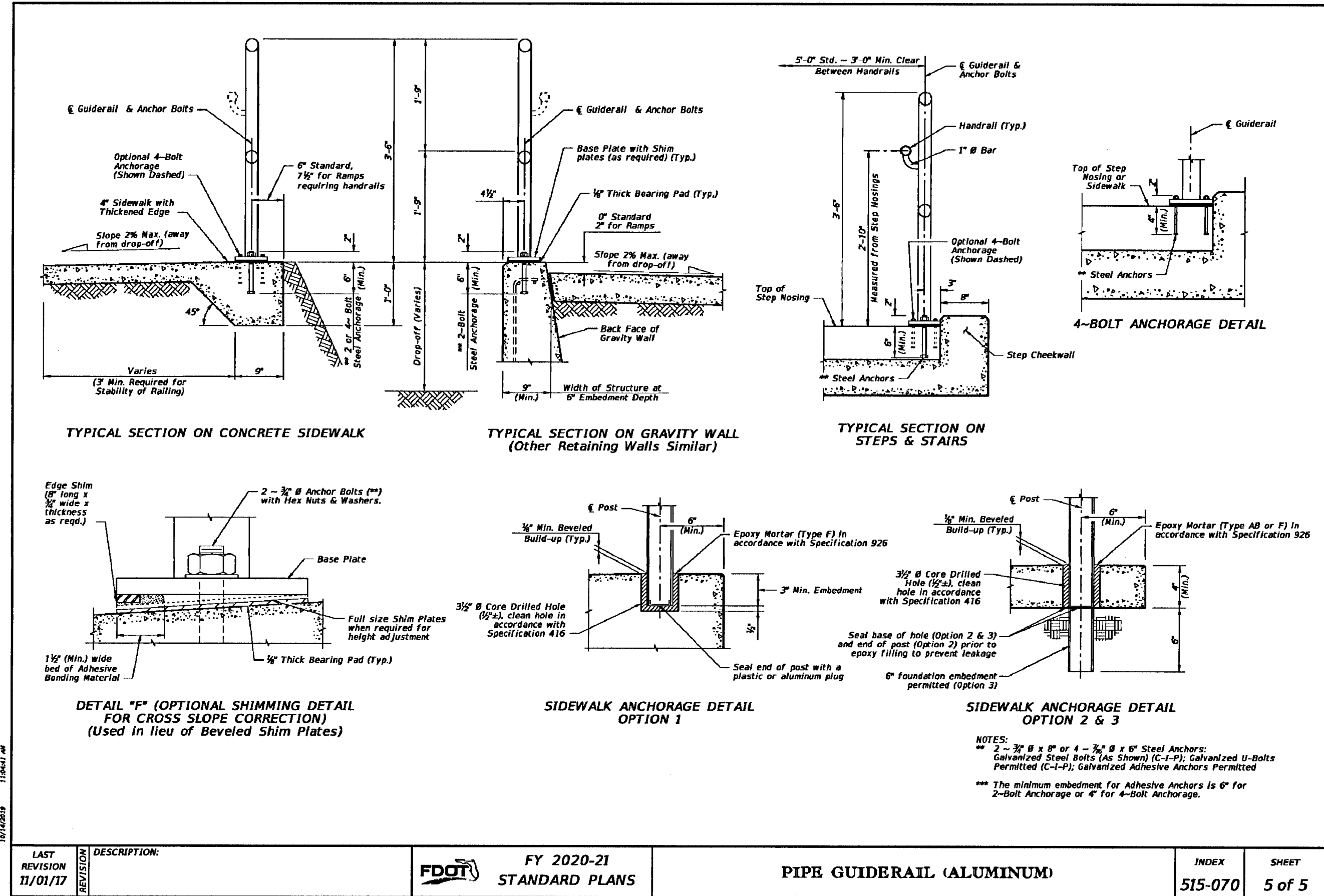
PROJECT DETAILS

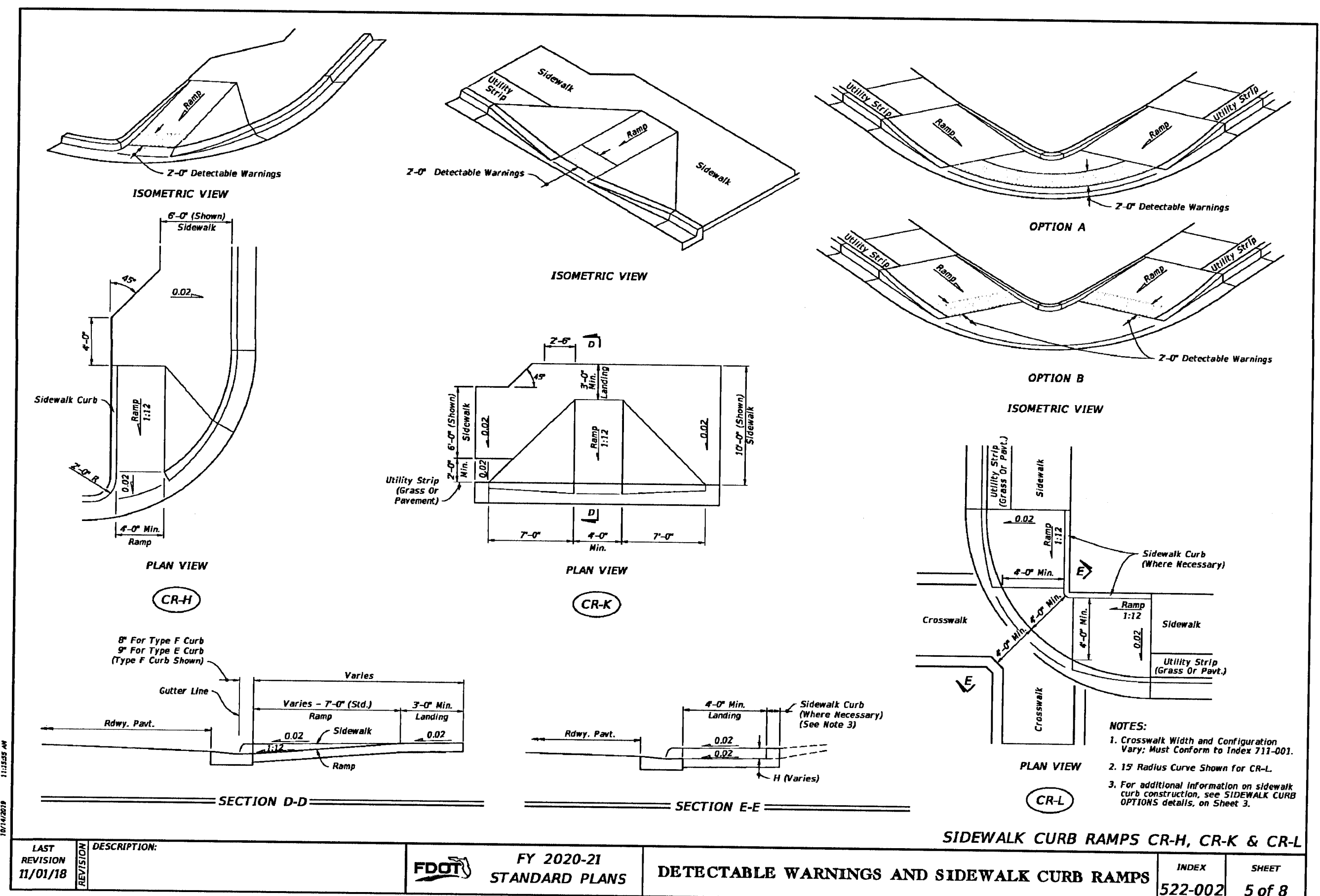
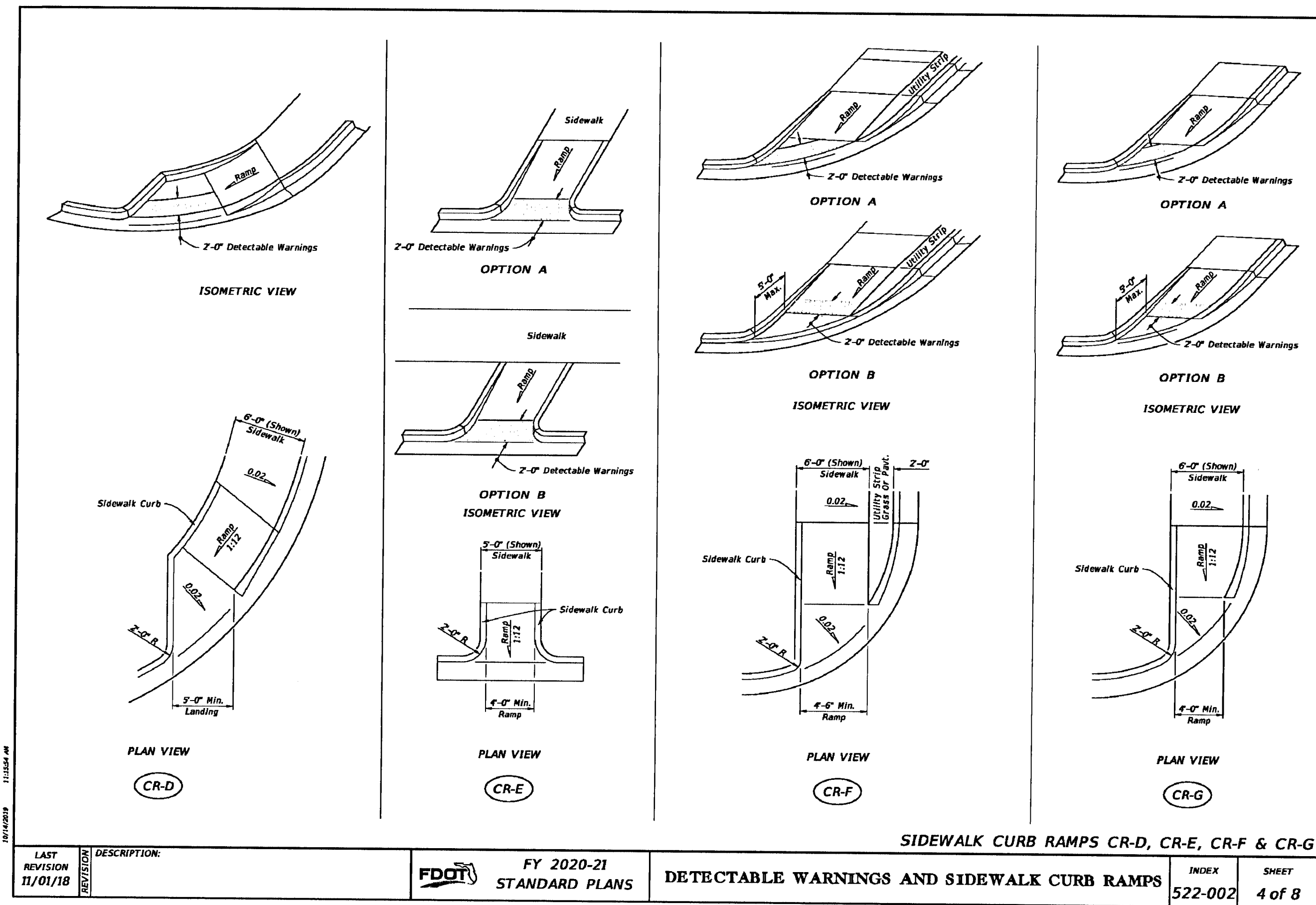


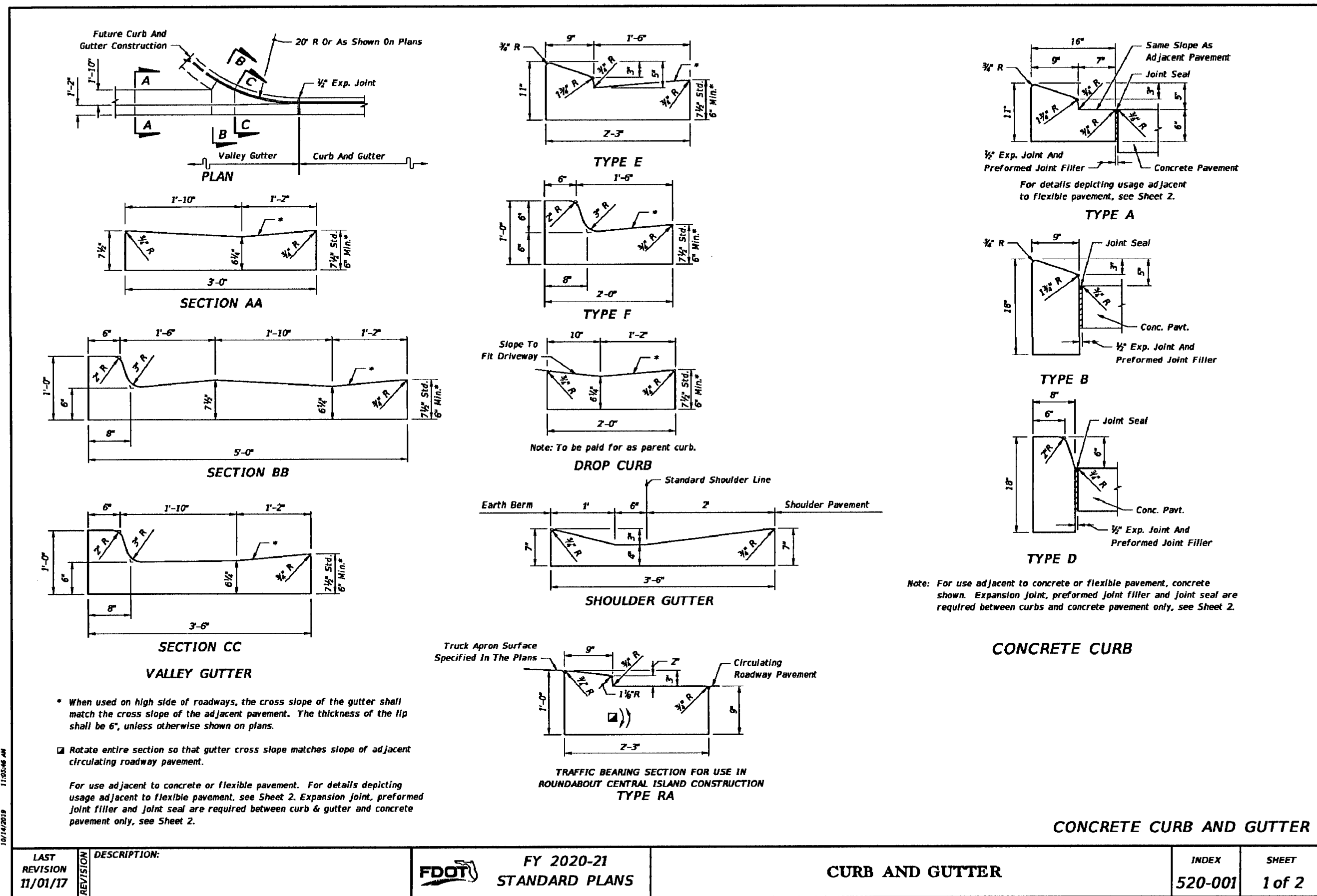
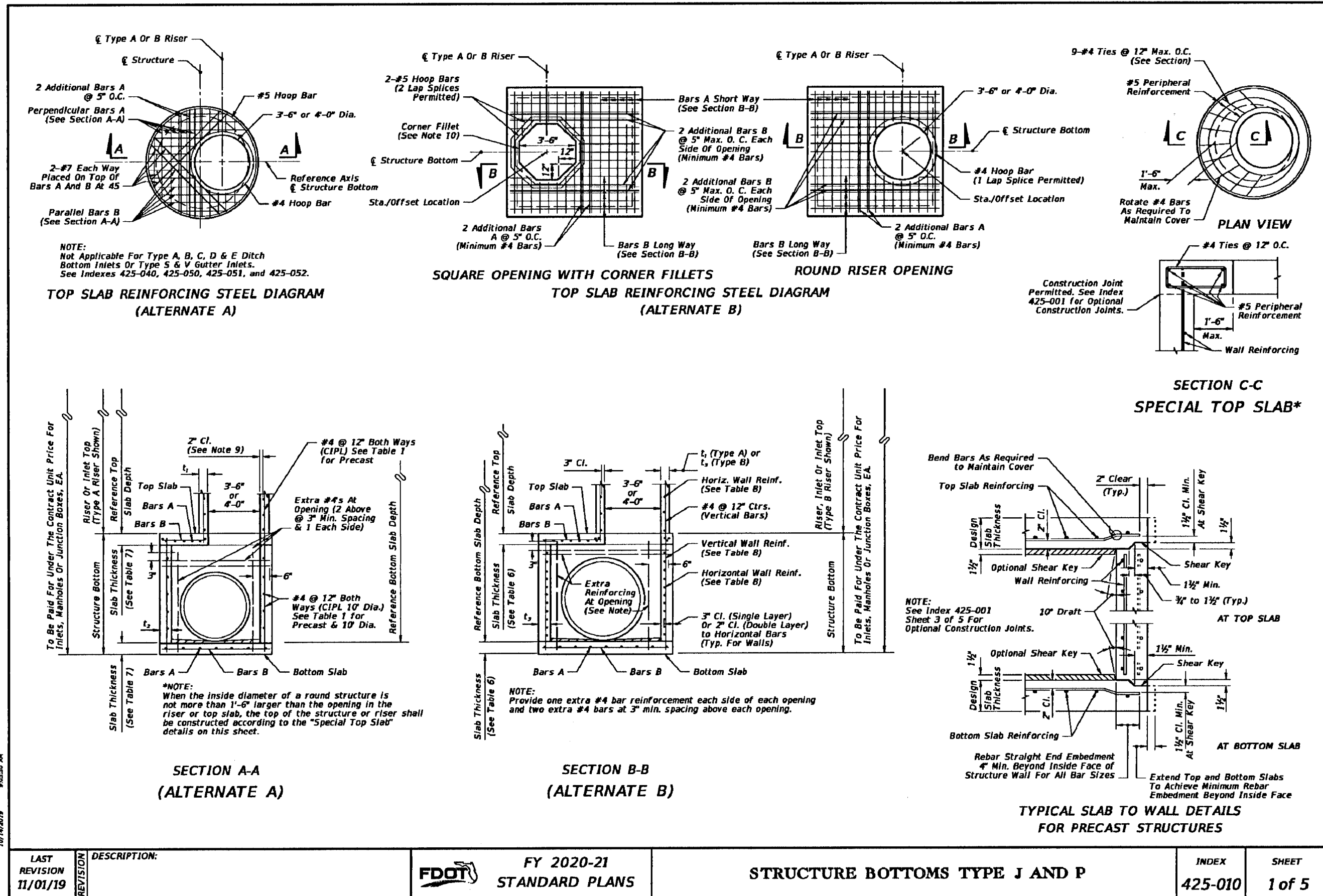
DRAWING NUMBER	C-803	PROJECT NUMBER	170001-004	SURVEY NUMBER	RMA 2019.013/L-4903	ESC/CNRY	APPROVED BY	DATE	REVISIONS	NUMBER
SHEET	36	OF	61							



[illegible]







PIPE SIZE	RECTANGULAR		ROUND	
	Single Pipe Size Dimension (L)	Note Number	Single Pipe Diameter (D)	2 to 4 Pipes Backlog
18"	3'-6"		3'-6"	4'-0"
24"	3'-6"		3'-6"	3'-0"
30"	3'-7 1/8"	3	4'-0"	4'-0"
36"	6'-0 1/5"	2	5'-0"	7'-0"
42"	5'-0"		6'-0"	7'-0"
48"	6'-0"		7'-0"	8'-0"
54"	6'-0"		7'-0"	10'-0"
60"	7'-0"		7'-0"	10'-0"
66"	7'-0 1/8"	4	8'-0"	12'-0"
72"	8'-0"		8'-0"	12'-0"
78"	9'-0"		10'-0"	12'-0"
84"	9'-0"		12'-0"	N/A

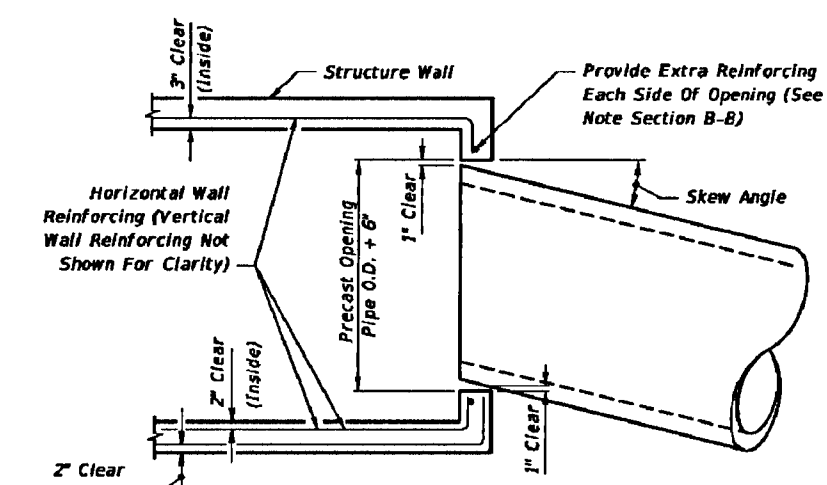
TABLE 3 NOTES:

1. For Round Structures sizes with variable angles in all planes and variable pipe sizes, refer to the FDOT Storm Drain Handbook.
2. For 3'-0" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 4'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
3. For 4'-0" Precast Square Structure Bottoms, 36" Pipes with similar invert elevations are not permitted in adjacent walls. Use 5'-0" Side Dimensions when 36" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
4. For 7'-0" Precast Square Structure Bottoms, 66" Pipes with similar invert elevations are not permitted in adjacent walls. Use 6'-0" Side Dimensions when 66" pipe openings are required on adjacent walls and the difference in flow lines is less than 4'-0".

PIPE SIZE	PIPE SPACING (S)	MINIMUM WALL THICKNESS (t) FOR NUMBER OF PARALLEL PIPES			
		2	3	4	5
18"	2'-10"	0"	8'-6"	11'-0"	-
24"	3'-5"	0'-6"	10'-0"	13'-6"	-
30"	4'-3"	8'-0"	12'-6"	16'-0"	-
36"	5'-1"	9'-6"	14'-6"	19'-6"	-
42"	6'-0"	11'-0"	17'-0"	-	-
48"	6'-9"	12'-6"	19'-0"	-	-
54"	7'-8"	14'-0"	-	-	-
60"	8'-6"	15'-0"	-	-	-
66"	9'-0"	16'-6"	-	-	-
72"	10'-0"	18'-0"	-	-	-
78"	10'-9"	19'-0"	-	-	-
84"	11'-6"	20'-6"	-	-	-

TABLE 4 NOTES:

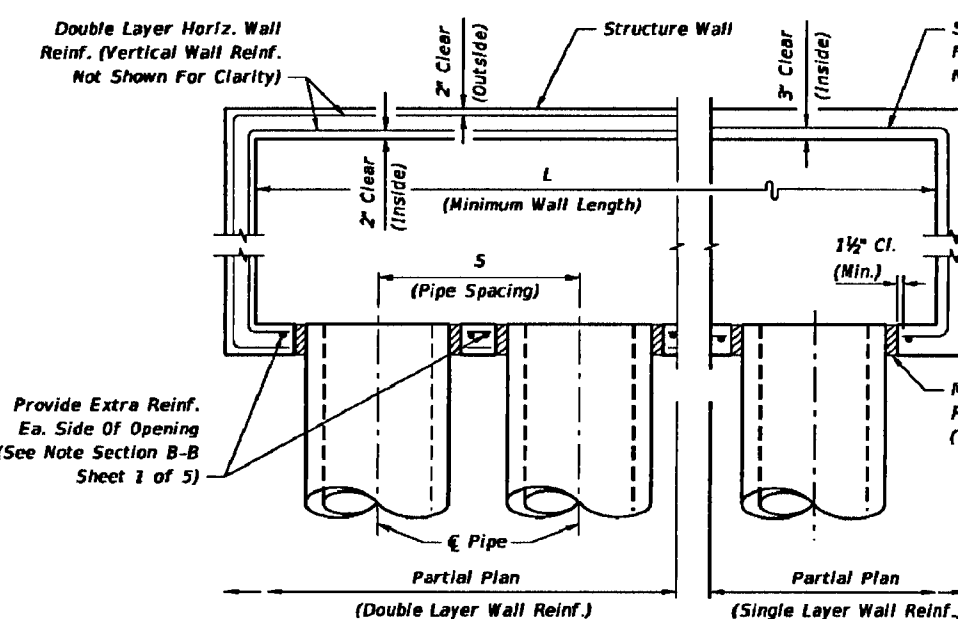
1. Minimum wall lengths based on precast structures, using concrete pipe with maximum skew angles per Table 5.
2. Wall lengths exceeding 20'-0" require special designs.



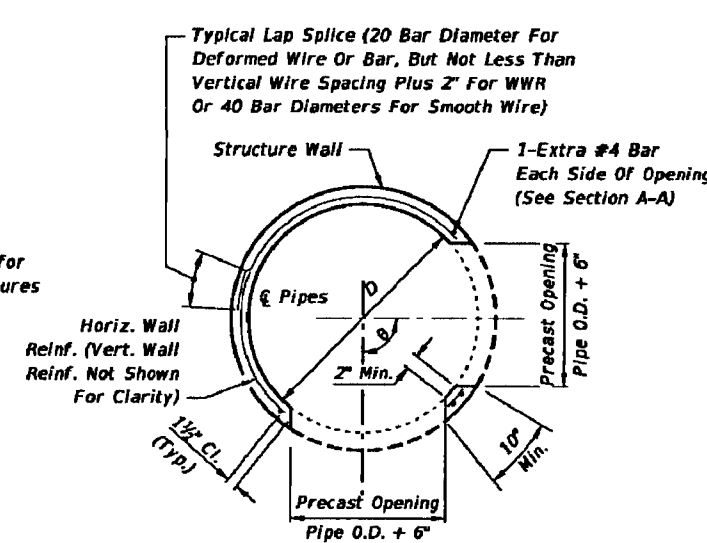
**MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS
PLAN VIEW**

	WALL THICKNESS	PIPE SIZE											
		18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
MAXIMUM	8"	19°	17°	16°	16°	15°	14°	14°	13°	13°	12°	12°	12°
SKEW ANGLE	6"	21°	20°	18°	17°	17°	16°	15°	15°	14°	14°	13°	13°


TABLE 5 NOTES:
These values are based on 2" clearance for precast structures.
Larger skews are possible for Cast-In-Place Structures or
elliptical pipe openings when approved by the Engineer.

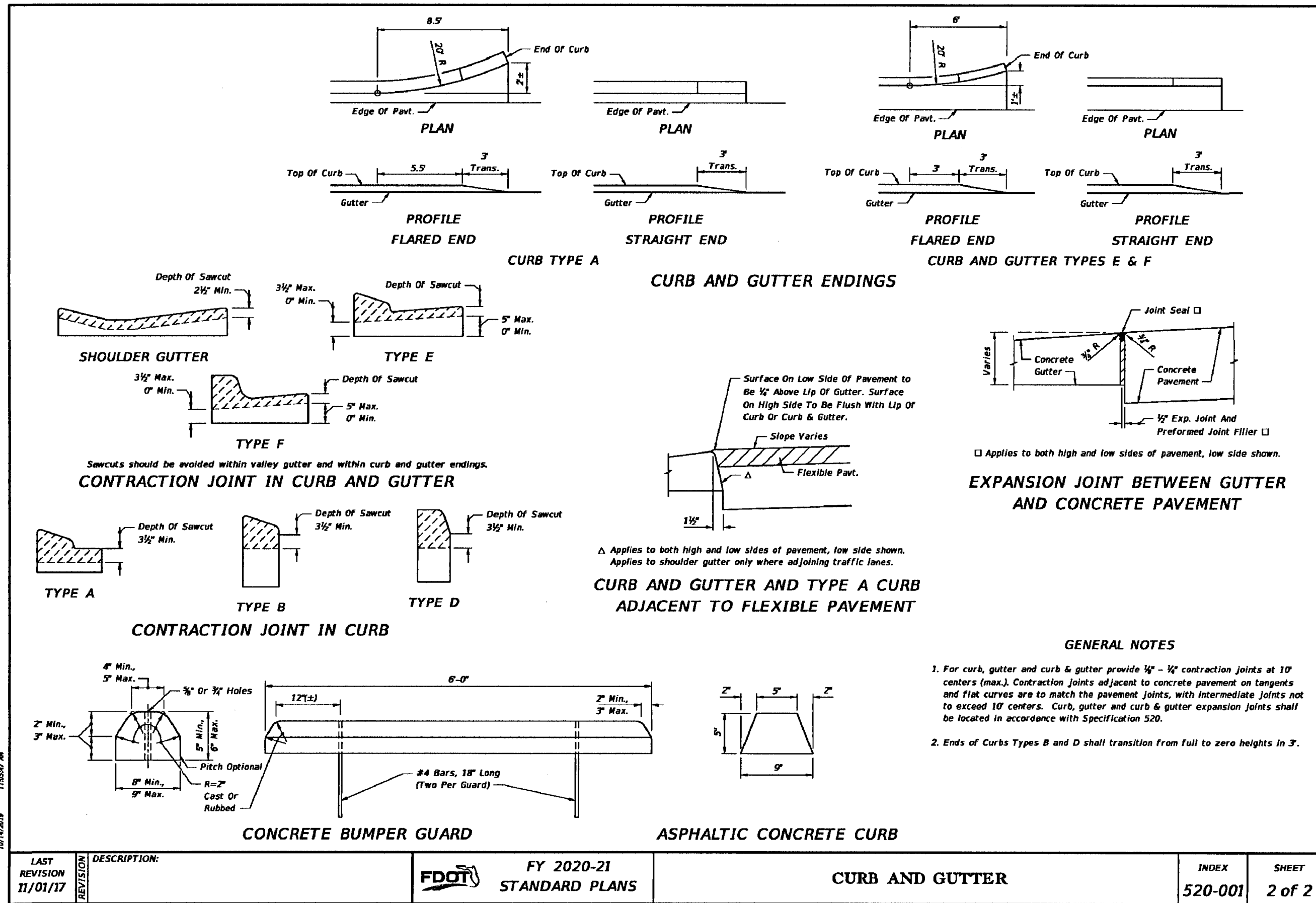


**MULTIPLE PARALLEL PIPE CONNECTIONS DETAIL
PLAN VIEW**

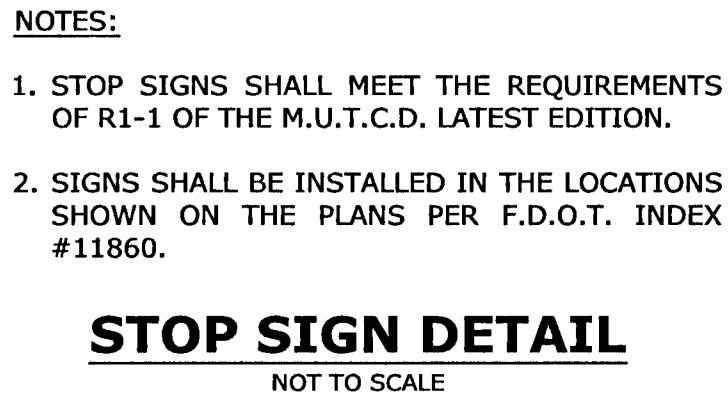
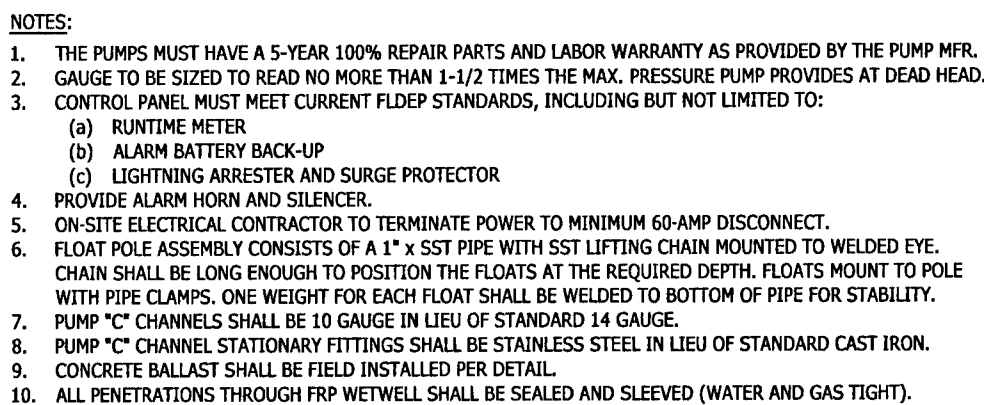
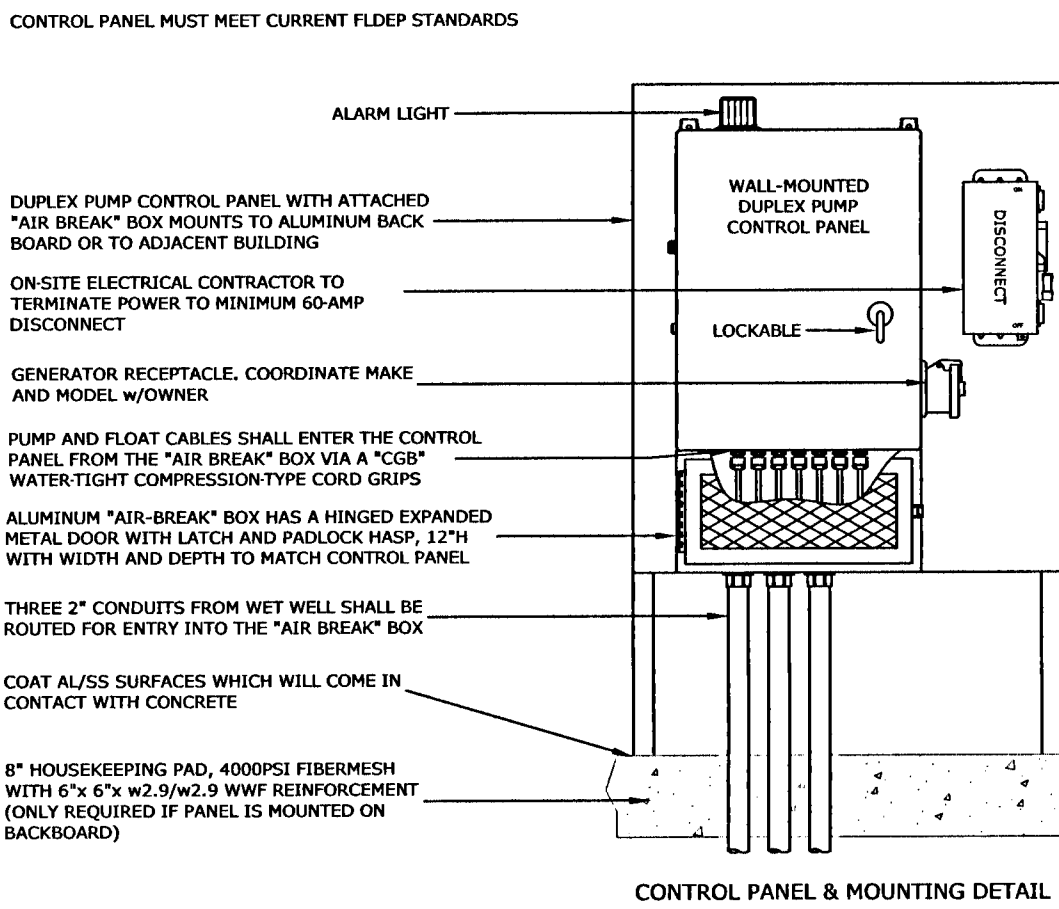


PRECAST ROUND STRUCTURES WITH MULTIPLE PIPE CONNECTIONS

LAST REVISION 11/01/17	DESCRIPTION:	 FY 2020-21 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX 425-010	SHEET 3 of 5
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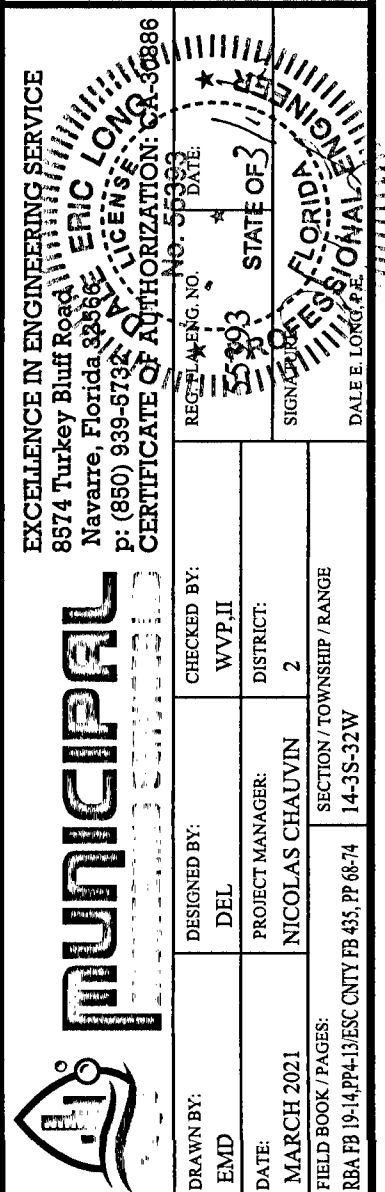
LAST REVISION 11/01/17	DESCRIPTION:  FY 2020-21 STANDARD PLANS	CURB AND GUTTER	INDEX 520-001	SHEET 2 of 2
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NOTES:
1. SEE WET WELL DETAILS FOR FLOAT ELEVATIONS.

PUMP DATA TABLE	
-	-
-	-
VOLTAGE	240
PHASE	1
MAX HP	2
-	-
RPM	3450
GPM	15
TDH	118, 23

PROJECT DETAILS



DRAWING NUMBER	C-809	
	PROJECT NUMBER 170001-004	
SURVEY NUMBER	RBA 2019.013/L-4903	ESC CNTY
SHEET	42	OF 61

1. VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK UNDER THIS CONTRACT.
2. ALL IRRIGATION INSTALLATION SHALL CONFORM TO LOCAL BUILDING AND PLUMBING CODES.
3. ADJUST SPRINKLER'S ARC AND RADIUS TO ENSURE 100% COVERAGE.
4. BURY ALL MAINS AT A MINIMUM DEPTH OF 24 INCHES BELOW GRADE.
5. BURY ALL LATERALS AT A MINIMUM DEPTH OF 18 INCHES BELOW GRADE.
6. VALVES, CONTROLLER AND OTHER ELECTRICAL COMPONENTS SHALL BE GROUNDED AS PER MANUFACTURER SPECIFICATIONS
7. COORDINATE THE LOCATION OF THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. ELECTRICAL SERVICE (110 VOLT AC) SHALL BE PROVIDED BY THE GENERAL CONTRACTOR
8. IRRIGATION WELL AND PUMP SHALL BE INSTALLED AS PER NFWMD STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITTING
9. PROVIDE COMPLETE TYPEWRITTEN INSTRUCTIONS FOR IRRIGATION OPERATION AND MAINTENANCE.
10. ALL POP UP SPRINKLER HEADS ALONG ROADS OR DRIVES WITHOUT CURBS SHALL BE POSITIONED 1' FROM THE BACK OF CURB.
11. EXPOSURE TO FREEZING CONDITIONS WILL RESULT IN THE IMPROPER FUNCTIONING OF THE BACKFLOW PREVENTION DEVICE. THE IRRIGATION RPA BACKFLOW PREVENTION DEVICE SHALL BE PROTECTED WITH A INSULATED "BLOCK BOX" EXEMPT OR APPROVED EQUIV. INSTALL AS PER MANUFACTURER'S RECOMMENDATION. COLOR SHALL BE DARK GREEN.

GENERAL NOTES CONTINUED

ON AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL SUBMIT ALL DRAWINGS, SPECIFICATIONS, DEPICTING EXISTING AND PROPOSED CHANGES TO REPAIR AND PROPOSED IRRIGATION NEEDED TO ACHIEVE 100% COVERAGE OF PLANTED AREAS WITHIN THE PROJECT LIMITS. ZONES SHALL BE RESPECTIVE TO THE PROPOSED PLANT MATERIALS TO BE INSTALLED.

ALL PROPOSED TREES SHALL BE ZONED ON BUBBLERS AS PER DETAIL SHOWN ON THIS SHEET.

ALL IRRIGATION PIPE TO BE PVC CLASS 200 SDR 21 OR BETTER - THE CONTRACTOR SHALL ZONE TURF, SHRUBS, GROUND COVER AND TREES INDIVIDUALLY.

VALVES SHOWN ON PLANS MAY BE RELOCATED TO ACCOMMODATE FIELD CONDITIONS

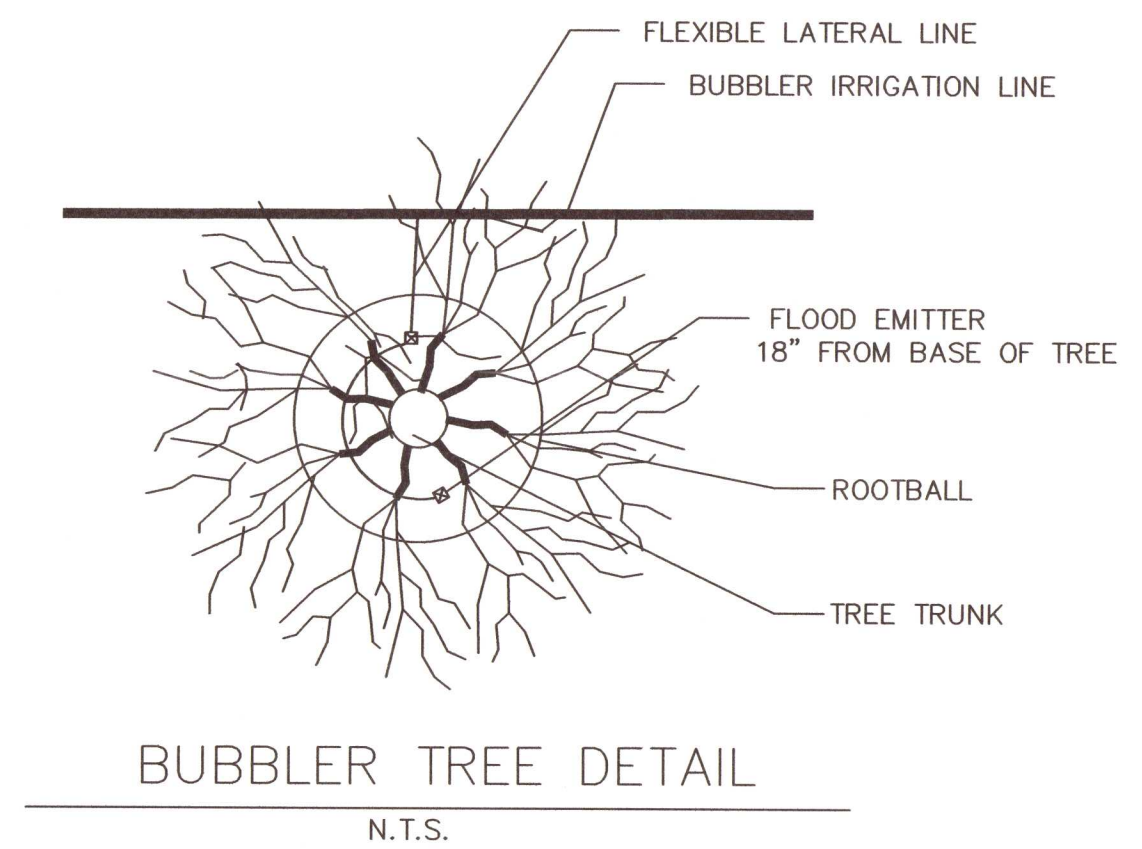
IRRIIGATION SCHEDULE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF MATERIALS REPRESENTED. CONTRACTOR SHALL PERFORM THEIR OWN TAKE OFF BASED ON PLAN DOCUMENTS.

THE LOCATION ON DRAWINGS ARE SCHEMATIC SHOWING DESIGN INTENT.

ENSURE 100% IRRIGATION COVERAGE AND LOCATE ALL PIPE IN BEDS.

IF ANY DOCUMENT DOES NOT SHOW PIPE JUMPS WHERE MAINLINE AND LATERAL PIPING CROSS, IT SHALL BE UNDERSTOOD THAT THIS PIPING SHALL BE SEPARATE.

IF EACH PIPE SHALL BE IN A SEPARATE VALVE BOX. VALVES SHOWN GRAPHICALLY IN A SIMILAR LOCATION SHALL BE GROUPED TOGETHER NO CLOSER THAN 2' AND NO FARTHER THAN 4'.



NOTE— APPROVED EQUALS TO ABOVE SPECIFIED MATERIALS WILL BE CONSIDERED.

- ADJUST NOZZLES AS NEEDED TO PREVENT OVERSPRAY
- INSTALL Hunter ICD 100 Decoder AT EACH ZONE VALVE AT DESCRETION OF OWNER AND LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY ALL QUANTITIES LISTED