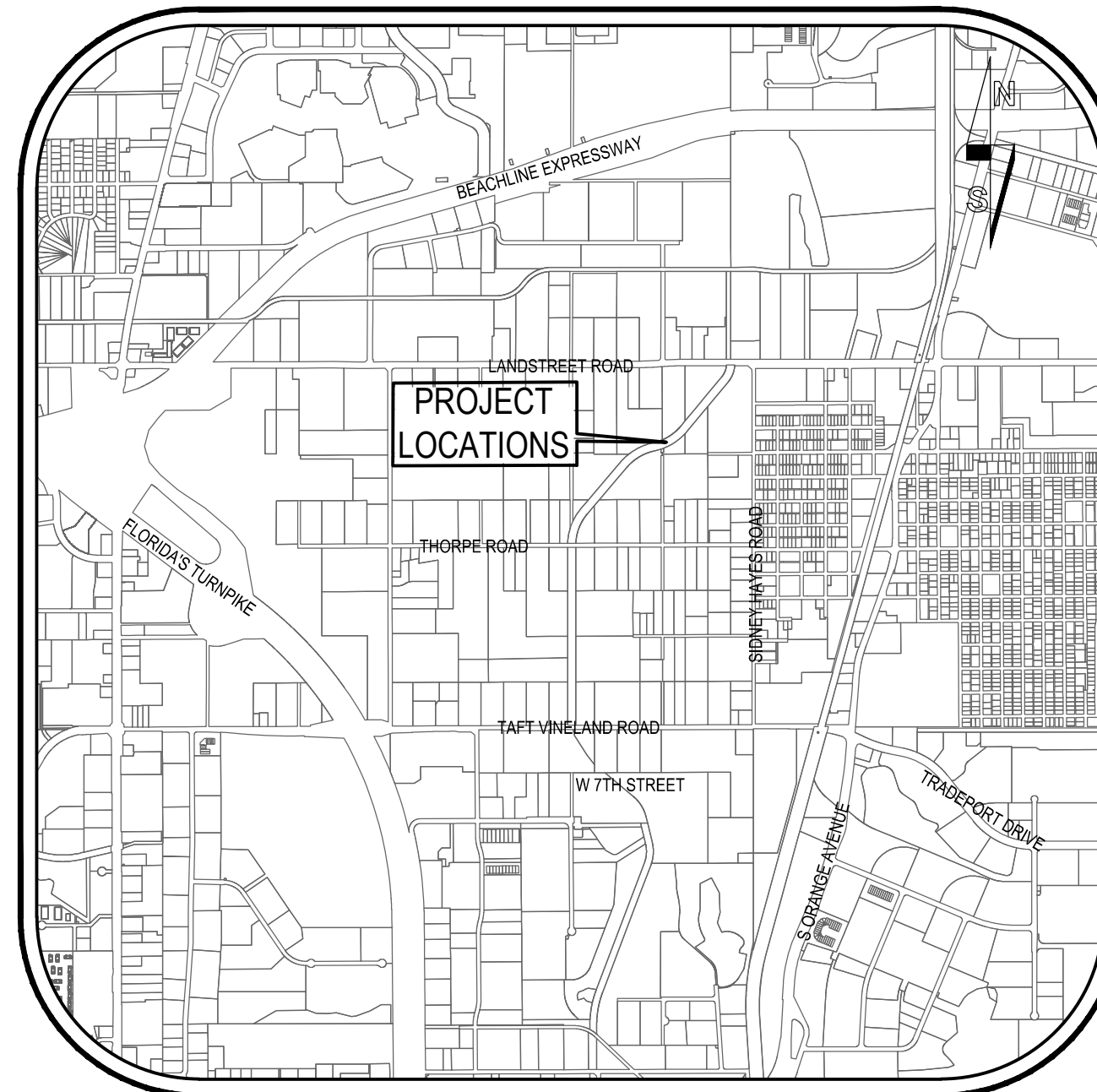




CONSTRUCTION PLANS FOR SKYLAKE CANAL B-01-L IMPROVEMENTS BETWEEN LANDSTREET ROAD AND THORPE ROAD JUNE 2018

DISTRICT NO. 4 ORANGE COUNTY, FLORIDA



ORANGE COUNTY PROPERTY APPRAISER PARCELS
VICINITY MAP
N.T.S.

SOURCE OF BENCHMARK DATUM

REFER TO SURVEY PREPARED BY SOUTHEASTERN SURVEYING & MAPPING CORPORATION (VERTICAL CONTROL BASED ON NAVD 88 DATUM)

SITE BENCHMARKS

ORANGE COUNTY BENCHMARK R510022
ELEVATION = 86.533'

NOTES

1. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

- 11" X 17" DRAWINGS - HALF SIZE
- 22" X 34" DRAWINGS - TO SCALE

OWNER
ORANGE COUNTY PUBLIC WORKS
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839

CIVIL ENGINEER (PRIME CONSULTANT)
CDM SMITH
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FLORIDA 32751

CIVIL ENGINEER (SUB-CONSULTANT)
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708

GEOTECHNICAL (SUB-CONSULTANT)
ANTILLIAN ENGINEERING ASSOCIATES, INC.
3331 BARTLETT BOULEVARD
ORLANDO, FLORIDA 32811

SURVEYOR (SUB-CONSULTANT)
SOUTHEASTERN SURVEYING & MAPPING CORPORATION
6500 ALL AMERICAN BOULEVARD
ORLANDO, FLORIDA 32810

NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

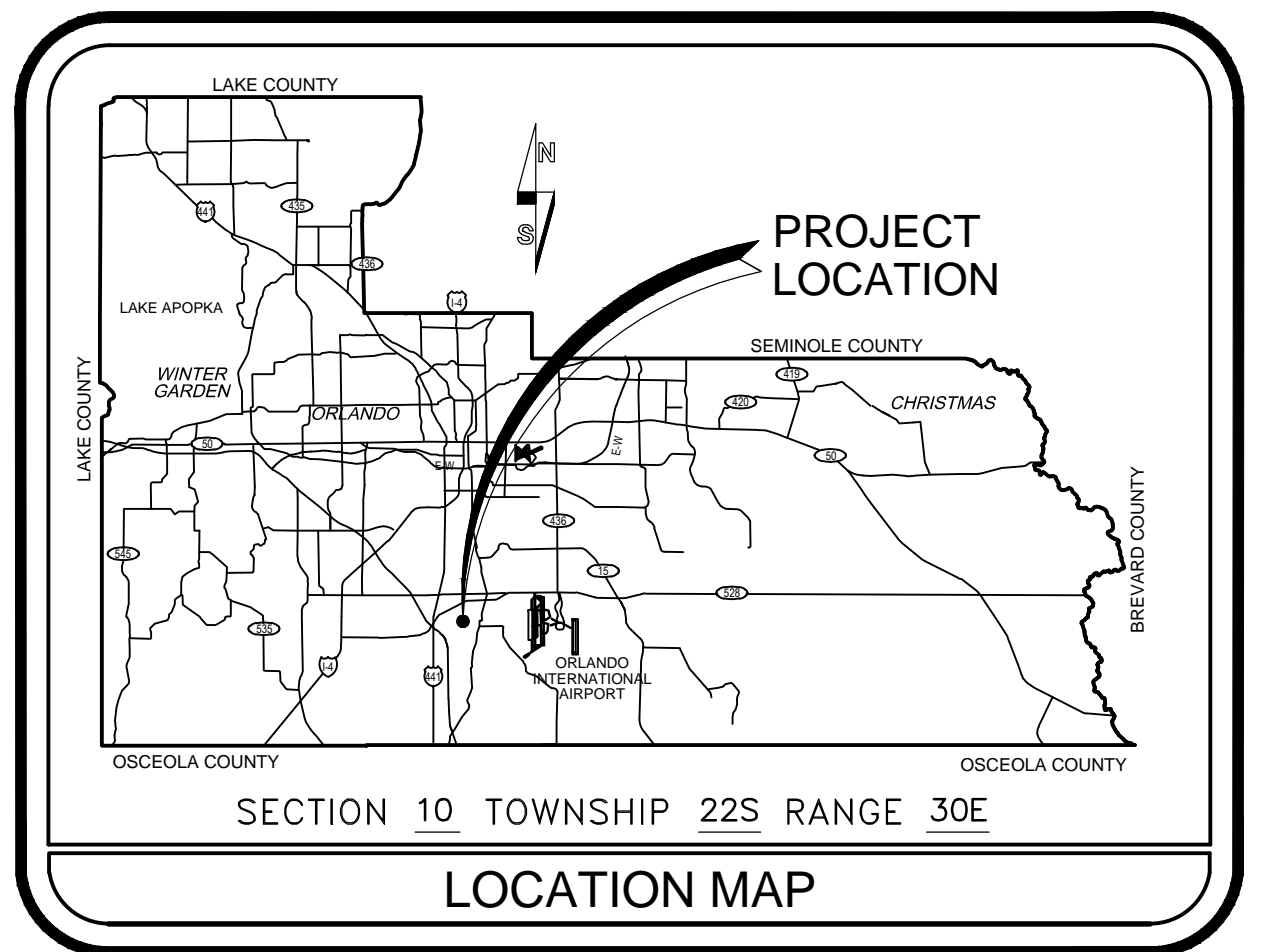
CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

ENGINEER: JANE M. WILLIAMS, P.E. REG. NO. 64088

BOARD OF COUNTY COMMISSIONERS

<u>TERESA JACOBS</u>	<u>COUNTY MAYOR</u>
BETSY VANDERLEY _____	DISTRICT 1
BRYAN NELSON _____	DISTRICT 2
PETE CLARKE _____	DISTRICT 3
JENNIFER THOMPSON _____	DISTRICT 4
EMILY BONILLA _____	DISTRICT 5
VICTORIA P. SIPLIN _____	DISTRICT 6



LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
G-1	COVER SHEET
G-2	LOCATION AND VICINITY MAP
G-3	GENERAL NOTES, LEGEND AND SUMMARY OF PAY ITEMS
C-1	B-01-L SURVEY (PER SOUTHEASTERN SURVEY)
C-2	B-01-L PLAN AND PROFILE
C-3	B-01-L CROSS SECTIONS
C-4	STORMWATER POLLUTION PREVENTION PLAN
CD-1	CIVIL DETAILS
CD-2	CIVIL DETAILS

UTILITIES ENCOUNTERED

N/A NO UTILITIES ENCOUNTERED
REFER TO SHEET G-2 FOR
UTILITY OWNERS AND CONTACTS

PREPARED BY:



101 SOUTHHALL LANE, SUITE 200
MAITLAND, FLORIDA 32751
TEL: 407-660-2552
CERT. OF AUTHORIZATION NO. 20

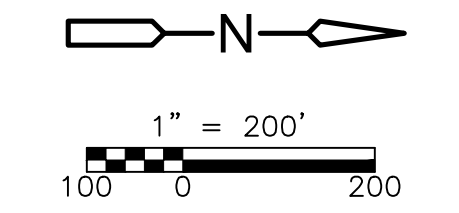
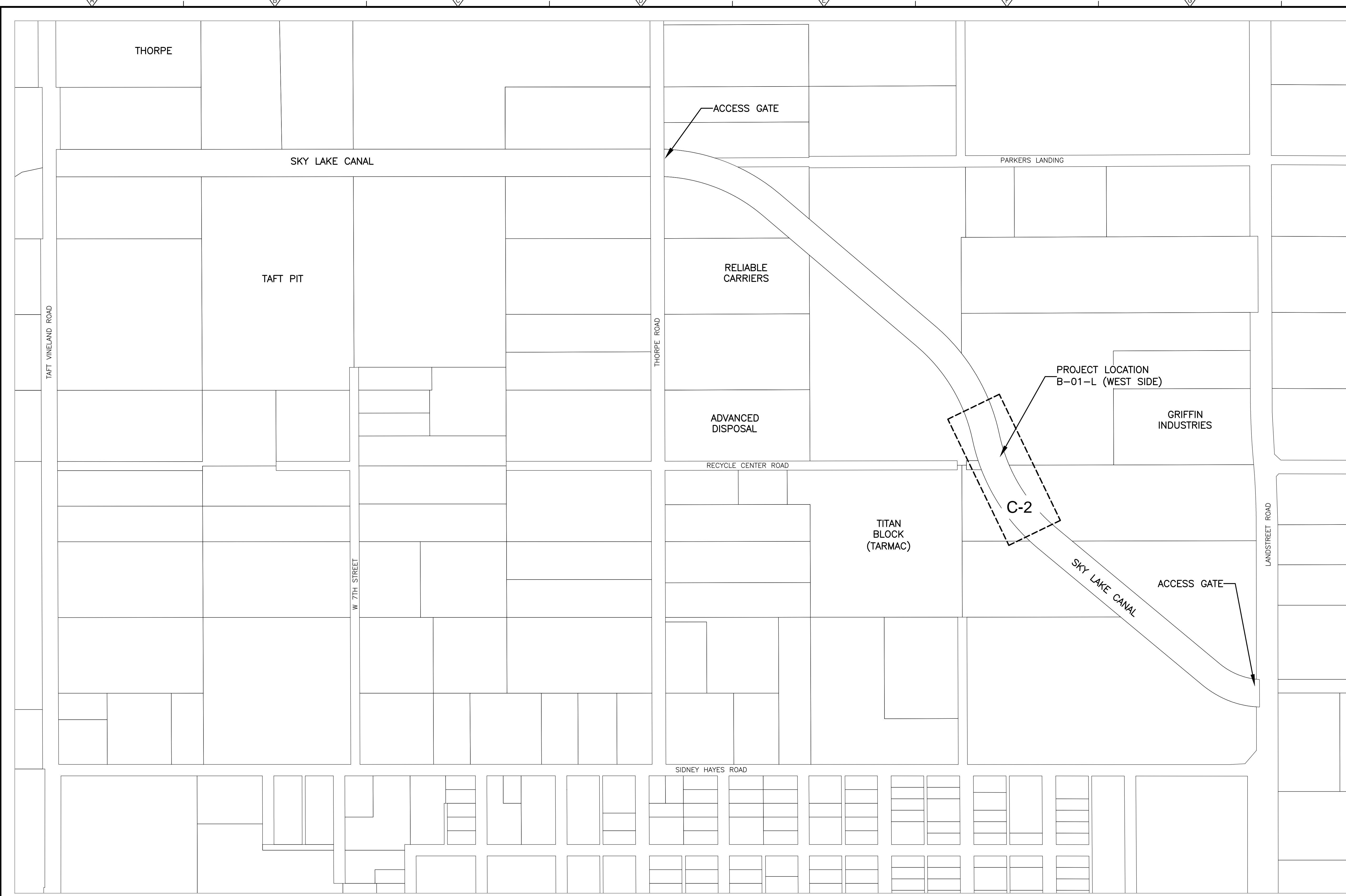
REVISIONS AND SUBMITTAL HISTORY	DATE	BY

DESIGNED BY: JMW	DATE: 05/18
CHECKED BY: JTW	DATE: 05/18
DRAWN BY: VCS	DATE: 05/18
APPROVED BY: JMW	DATE: 05/18
PROJECT NO: 110784	

SHEET G-1

SKYLAKE CANAL B-01-L IMPROVEMENTS

XREFs: [Orange Parcels 04, CDMS_2234] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS
 DRAWN BY: C. SCOTT
 SHEET CHK'D BY: J. HEALY
 CROSS CHK'D BY: J. WITTIG
 APPROVED BY: J. WILLIAMS
 DATE: JUNE 2018

CDM Smith
 101 Southhall Lane, Suite 200
 Maitland, FL 32751
 Tel: (407) 660-2552
 FL COA No. EB-0000020

ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
SKY LAKE CANAL
B-01-L IMPROVEMENTS
FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

LOCATION AND VICINITY MAP

DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110783
 FILE NAME: G002LVMP.DWG
 SHEET NO.
G-2

GENERAL NOTES

- ALL ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
- SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
- ALL COMPENSATION FOR THE COST OF REMOVAL, REPLACEMENT, RELOCATION AND/OR INSTALLATION OF MONUMENTS, FENCES, SIGNS, IRRIGATION SYSTEMS, LANDSCAPING FEATURES, TREES, MAILBOXES AND ASSOCIATED RESTORATION SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.
- THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVAL OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
- EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO BE PROTECTED UNLESS MARKED AS TO BE REMOVED.
- SOD ALL DISTURBED AREAS, PEG ALL SLOPES 3:1 OR STEEPER. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
- THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104; "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
- PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.
- UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
- ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY:
STATE GEODETIC ADVISOR, RONNIE TAYLOR
3900 COMMONWEALTH BOULEVARD, SUITE 309,
TALLAHASSEE, FL
850-245-2606
- PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE (407-836-7940). THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
- PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
- ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISIONS OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.
- CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTING CONSTRUCTION.
- ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAT THE CONDITION EXISTING. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- CONTRACTOR SHALL MAINTAIN FLOW CAPACITY OF EXISTING STORMWATER SYSTEM THROUGHOUT DURATION OF CONSTRUCTION. NO FLOODING OF ONSITE OR OFFSITE AREAS DUE TO CONSTRUCTION WILL BE ALLOWED.
- CONTRACTOR SHALL DEVELOP A PHASED DEWATERING AND FLOW DIVERSION PLAN AND SUBMIT TO THE COUNTY AND ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

CAUTION:
Chapter 77-153 of the Florida Statutes requires that an excavator notify all gas utilities a minimum of two working days prior to excavating. Maps show only the approximate location of gas mains or service lines. The only safe and proper way to locate gas facilities is by an on-site inspection by T.E.C.D. GAS SYSTEMS. Therefore, excavators are instructed to telephone us at 407-425-4661 two working days before digging in a construction area.

UTILITY OWNERS & CONTACTS

THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

BRIGHT HOUSE NETWORKS, LLC
3767 ALL AMERICAN BOULEVARD
ORLANDO, FL 32810
MARVIN USRY 407-532-8509

ORANGE COUNTY UTILITIES
201 S ROSALIND AVENUE
ORLANDO, FL 32801
DAVID SHORETTE 407-254-9764

ORLANDO UTILITIES COMMISSION
6003 E PERSHING AVENUE
ORLANDO, FL 32822
STEVEN LOCKINGTON 407-434-2568

AT&T/DISTRIBUTION
1120 S ROGERS CIRCLE
BOCA RATON, FL 33487 561-997-0240

LEGEND

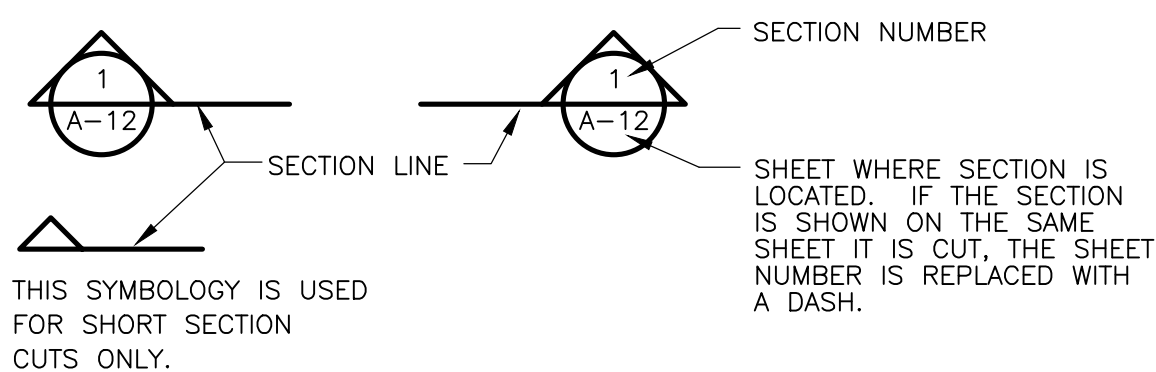
	STORM SEWER		EXISTING CHAIN LINK FENCE
	EXISTING SANITARY SEWER W/ MANHOLE		STORMSEWER TO BE CONST. UNDER EXISTING UTILITY
	EXISTING FIBER OPTIC		STORMSEWER TO BE CONST. OVER EXISTING UTILITY
	EXISTING WATER MAIN		BENCH MARK/ SOIL BORING
	EXISTING BURIED TELEPHONE		EXISTING CHAIN LINK FENCE
	EXISTING POWER DUCTS OR CABLES		PROPOSED SILT FENCE
	EXISTING OVERHEAD WIRE		EXISTING CONTOUR
	EXISTING CABLE TELEVISION		PROPOSED CONTOUR
	EXISTING STORM SEWER W/CATCH BASIN		EXISTING SPOT ELEVATION
	EXISTING FIRE HYDRANT		PROPOSED SPOT ELEVATION
	EXISTING POWER POLE		DRAINAGE STRUCTURE ID
	EXISTING LIGHT POLE		DITCH BOTTOM INLET
	R/W - RIGHT OF WAY		STORMWATER MANHOLE
	P.L. - PROPERTY LINE		EXISTING GAS LINE
	JURISDICTIONAL BOUNDARY		EXISTING SPRINKLER HEAD
	LIMITS OF CONSTRUCTION		EXISTING ELECTRICAL BOX
	EASEMENTS		
	WATER ELEVATION		
	BASE LINE		
	FLOATING TURBIDITY BARRIER		
	CHAIN LINK FENCE		

SUMMARY OF PAY ITEMS

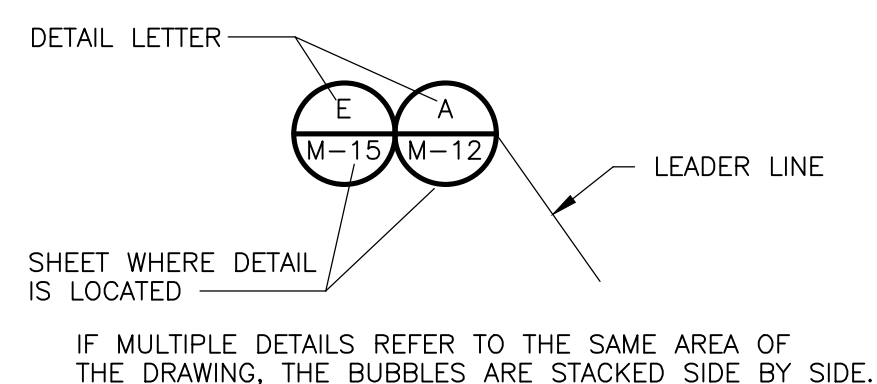
REF. NUMBER	FDOT PAY ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY TOTAL	
				PLAN	FINAL
1	101-1	Mobilization(10% of Items 2 through 12)	LS	1	
2	102-1	Maintenance of Traffic	LS	1	
3	104-1	Prevention, Control and Abatement of Erosion and Water Pollution	LS	1	
4	104a-1	Dewatering / Flow Diversion	LS	1	
5	110-1-1	Clearing & Grubbing	LS	1	
6	120-9	Excavation Embankment and Grading	LS	1	
7	430-981-129	Mitered End Section	EA	2	
8	455-1	Sheet Piling	SF	2376	
9	530-3-4	Riprap-Rubble (Ditch Lining)	TN	8	
10	570-1	Performance Turf, Sod	SY	2500	
11	571-1-13	Plastic Erosion Mat, TRM, Type 3	SY	1400	
12	900-1	As-Built Plans	LS	1	
13	900-2	Indemnification	LS	1	

NOTE:
PAY ITEM 120-9 INCLUDES REMOVAL OF UNSUITABLE MATERIAL REFER TO TECHNICAL PROVISION 120 FOR REQUIREMENTS.

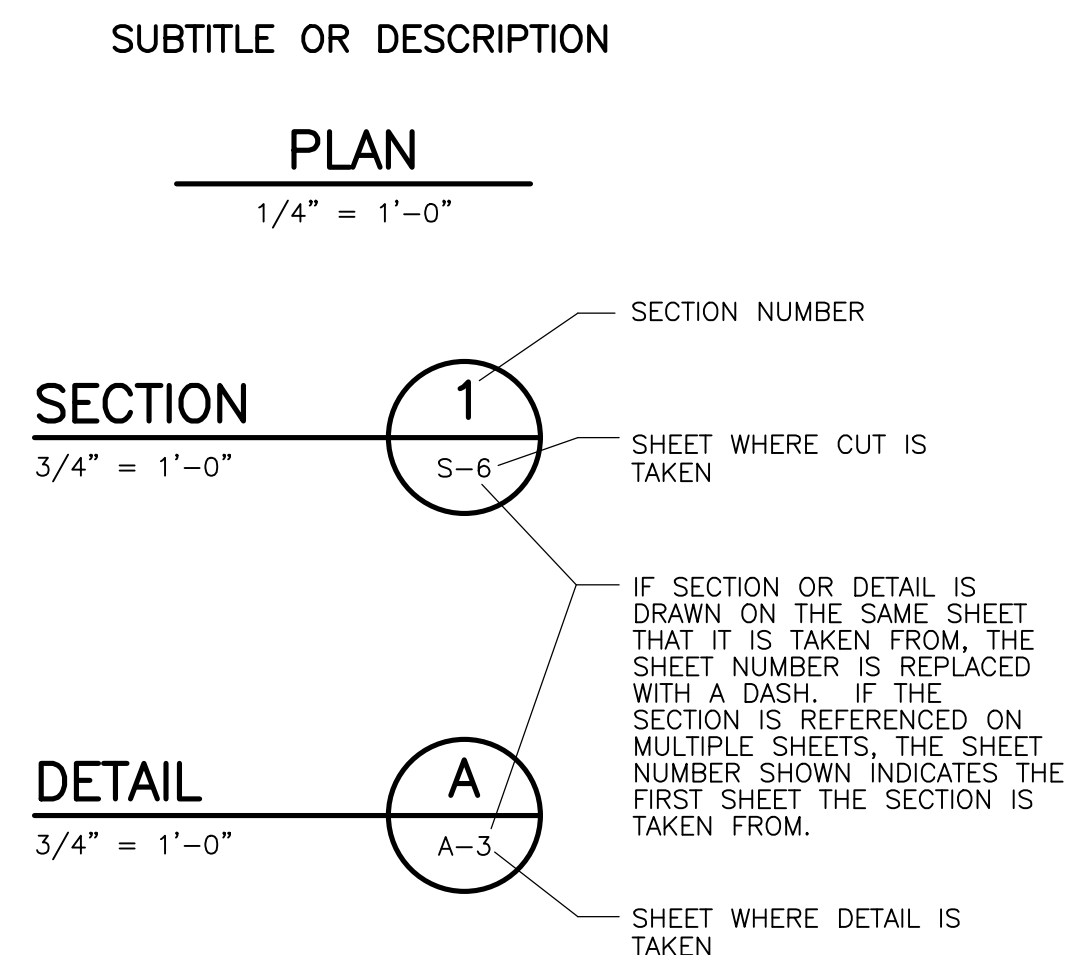
SECTION CUT SYMBOLS



DETAIL CALL OUT SYMBOLS



DRAWING, SECTION AND DETAIL TITLES



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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	J. WILLIAMS
DRAWN BY:	C. SCOTT
SHEET CHK'D BY:	J. HEALY
CROSS CHK'D BY:	J. WITTIG
APPROVED BY:	J. WILLIAMS
DATE:	JUNE 2018

CDM Smith
101 Southhill Lane, Suite 200
Maitland, FL 32751
Tel: (407) 660-2552
FL COA NO. EB-0000020

ORANGE COUNTY, FLORIDA
STORMWATER MANAGEMENT DIVISION
SKY LAKE CANAL
B-01-L IMPROVEMENTS
FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

GENERAL NOTES, LEGEND AND SUMMARY OF PAY ITEMS

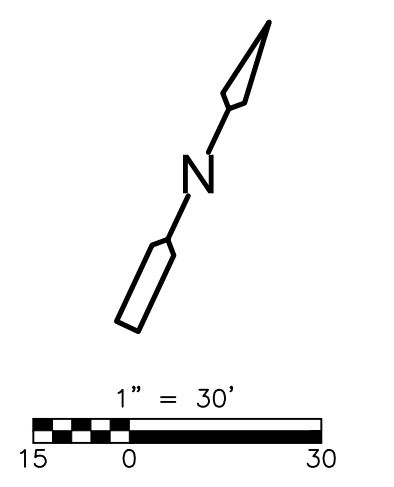
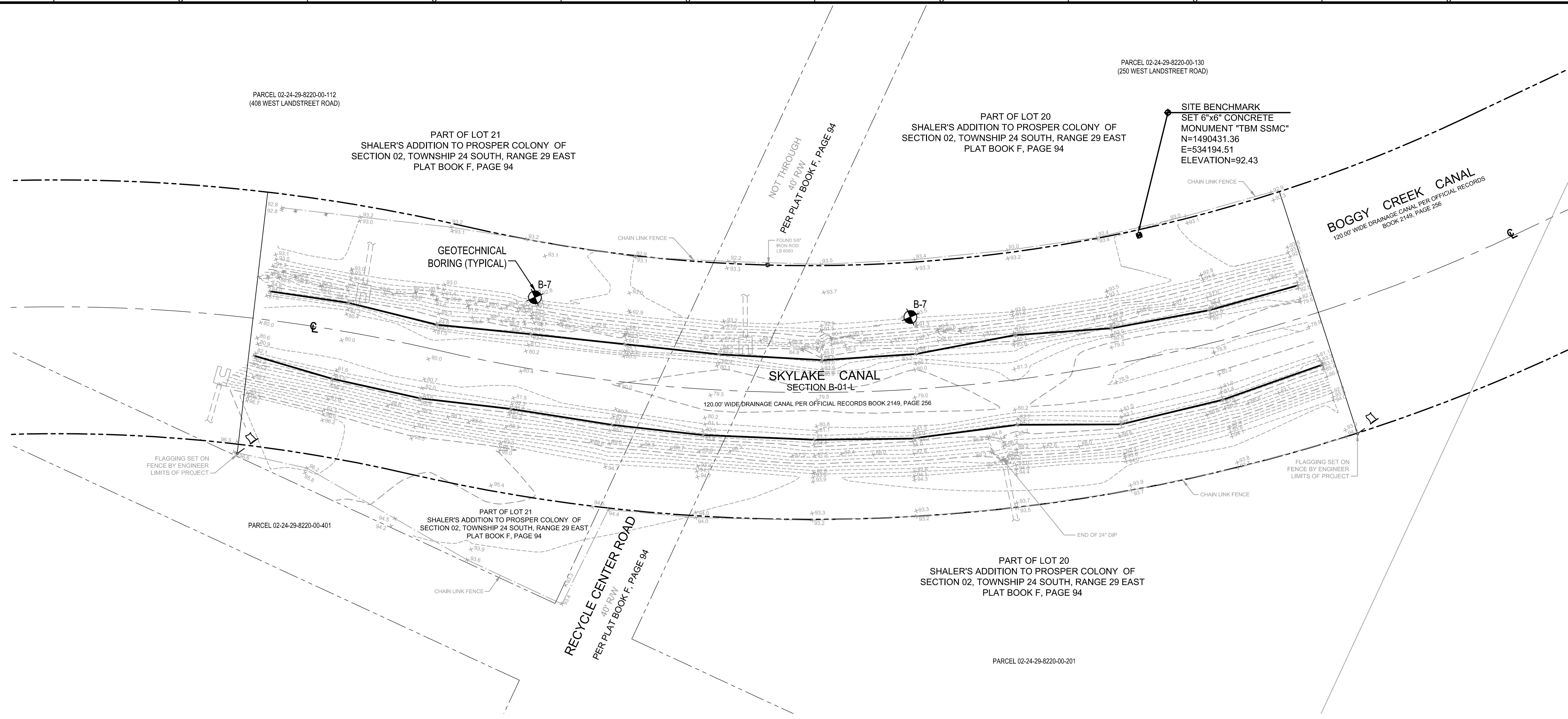
DATE:
JANE M WILLIAMS
PE NO. 64088

PROJECT NO. 6059-110783
FILE NAME: G003STPL.DWG

SHEET NO.

G-3

ISSUED FOR BID



DESCRIPTION:

Portions of Parcel Identification Number (PID) 02-24-29-7268-00-000, Lots 56, 57, 9 and 10 of Prosper Colony Subdivision, Plat Book D, Page 102 and Parcel Identification Number (PID) 02-24-29-8220-00-000, Lots 20, 21, 41 & 42 of Shaler's Addition to Prosper Colony of the Public Records of Orange County, Florida,

SURVEYOR'S REPORT:

- Utility locations if shown hereon are based on field location of markings by Utility Company representatives, surface features and construction plans furnished to the surveyor. Additional sub-surface utilities may exist that have not been field located.
- Easements or rights of way that appear on recorded plans or that have been furnished to the surveyor by others have been incorporated into this drawing with appropriate notation. Other easements may be discovered by a search of the Public Records.
- Measurement methods used for this survey meet STANDARDS OF PRACTICE FOR LAND SURVEYING Chapter 5J-17 requirements.
- Underground foundations have not been located.
- The survey map and report or the copies thereof are not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.
- Features shown by symbol as indicated in the legend are not to scale.
- Vertical information shown hereon refers to a National Geodetic Survey point with designation "GIS 0131 KAREN MCKEE" and PID number AK7129 and has a published elevation of 79.26 feet NAVD 88 (North American Vertical Datum, 1988).
- Based on the Federal Emergency Management Agency Flood Insurance Rate Map (FIRM) number 12095C0420F, dated 09/25/2009, the above described property is within Zone "AE".
- The horizontal features shown on the map refer to a National Geodetic Survey point with designation "GIS 0131 KAREN MCKEE" and PID number AK7129 and is relative to North American Datum, NAD 1983, 2011 adjustment, State Plane Coordinate System, Florida East Zone. Distances shown are GRID distances.
- This Survey was performed without benefit of an abstract, title search, title opinion or title commitment. A title search may reveal additional information affecting the parcel as shown.
- Positional accuracy meets National Geodetic Survey, NGS Third Order, Class One, specifically 1:10,000, verified by redundant measurements.
- Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
- Right of Way information shown hereon was determined by found monumentation, recorded plats, recorded Right of Way Maps, and information obtained on the Orange County Property Appraisers web site. No Right of Way documentation was provided by client.
- Improvements & Topographic features shown hereon are limited to areas per specific instructions of the client.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.

LEGEND & ABBREVIATIONS

- ◆ = BENCHMARK
- = CONCRETE MONUMENT
- = IRON ROD
- ◻ = MITERED END SECTION
- = POST/BOLLARD
- ⊙ = CENTERLINE
- X- = CHAINLINK FENCE
- DIP = DUCTILE IRON PIPE
- PB = PLAT BOOK
- MB = MAP BOOK
- ORB = OFFICIAL RECORDS BOOK
- ⚠ = SOIL BORING
- ⚠ = LIMITS FLAGGING
- PG(S) = PAGE(S)
- LB = LICENSED BUSINESS
- LS = LICENSED SURVEYOR
- RLS = REGISTERED LAND SURVEYOR
- PSM = PROFESSIONAL SURVEYOR AND MAPPER
- ID = IDENTIFICATION
- R/W = RIGHT OF WAY
- NAD = NORTH AMERICAN DATUM
- NAVD = NORTH AMERICAN VERTICAL DATUM
- TRAV.PT. = TRAVERSE POINT
- SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION

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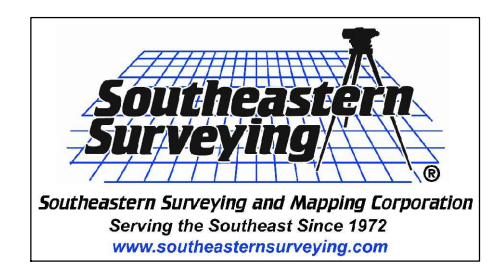
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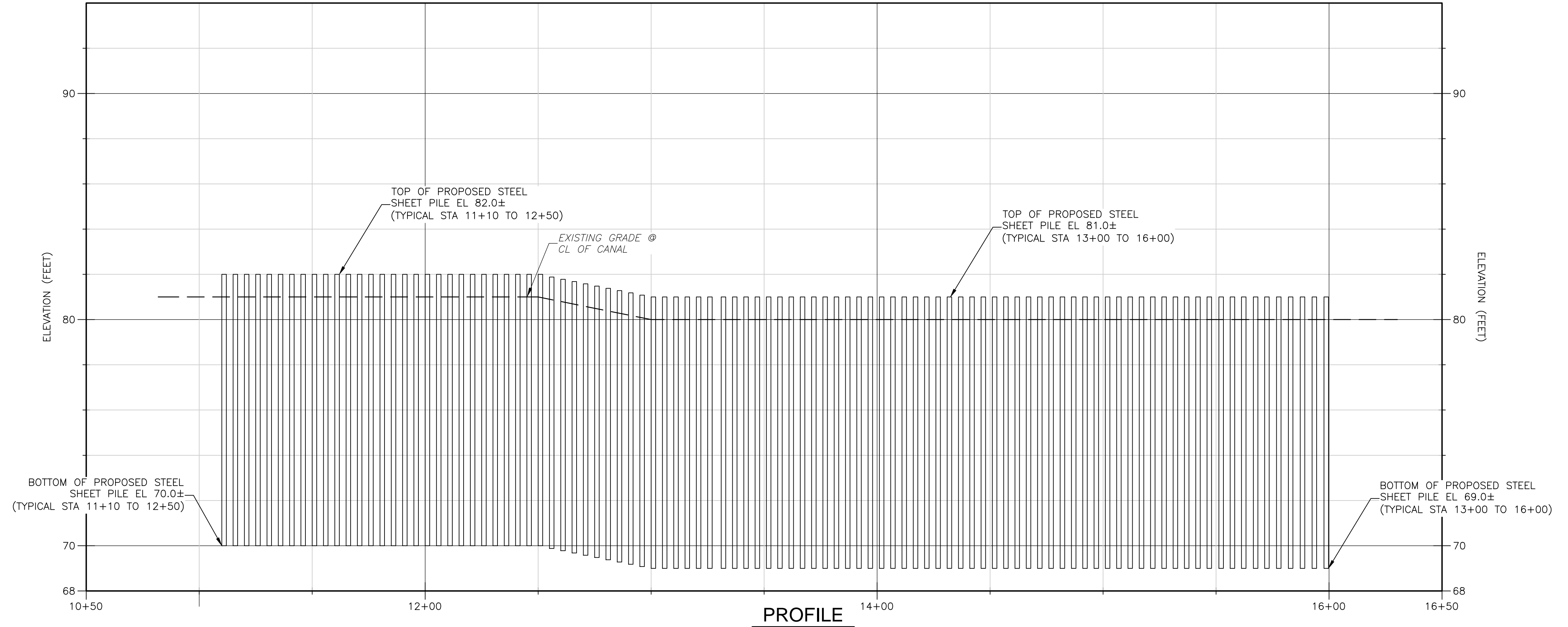
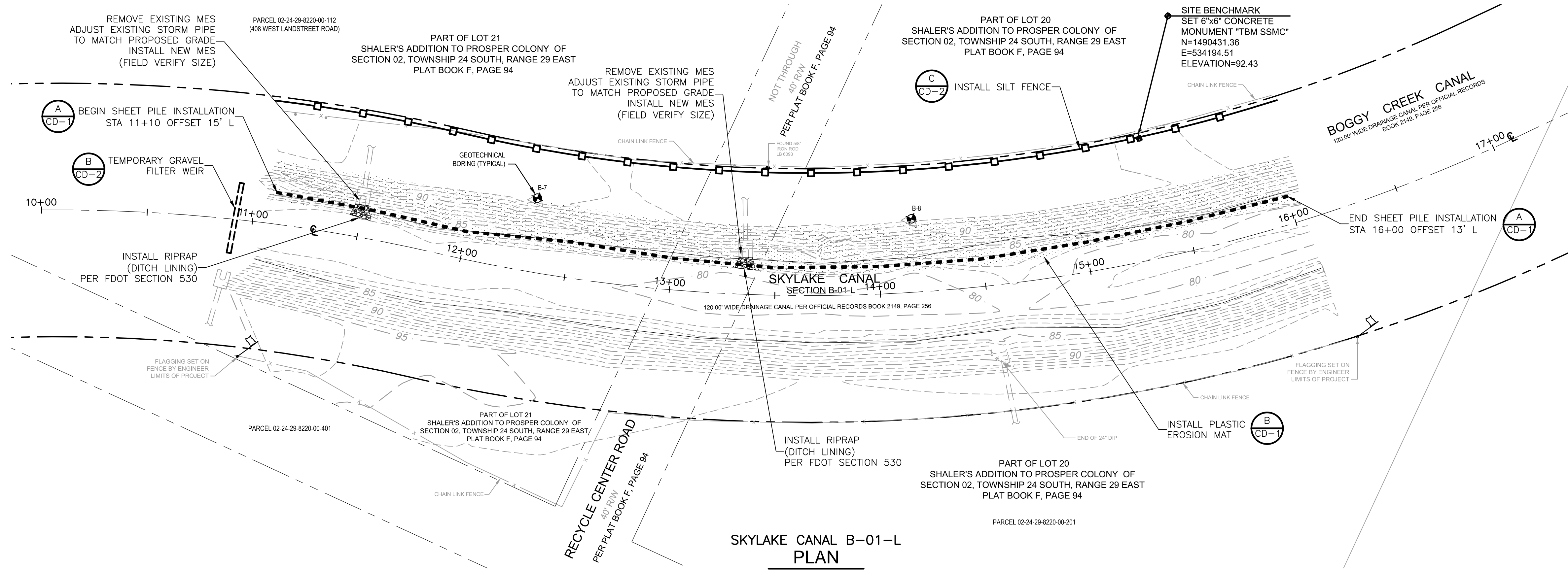
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PROJECT NO. 6059-110783
 FILE NAME: CO01EXSP.DWG
 SHEET NO. C-1



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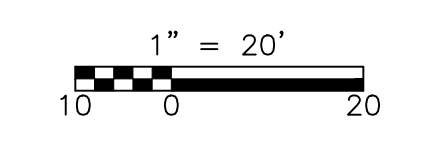
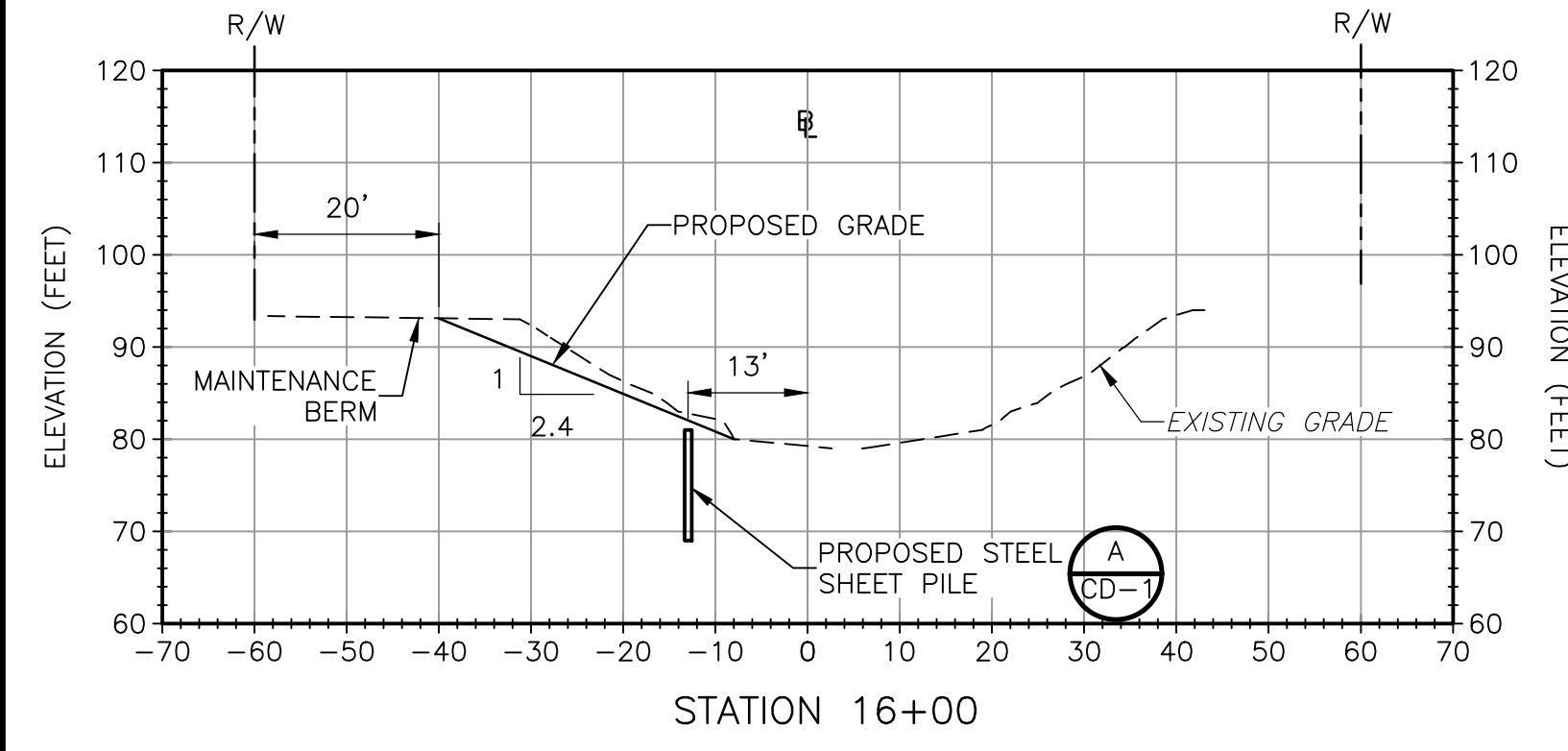
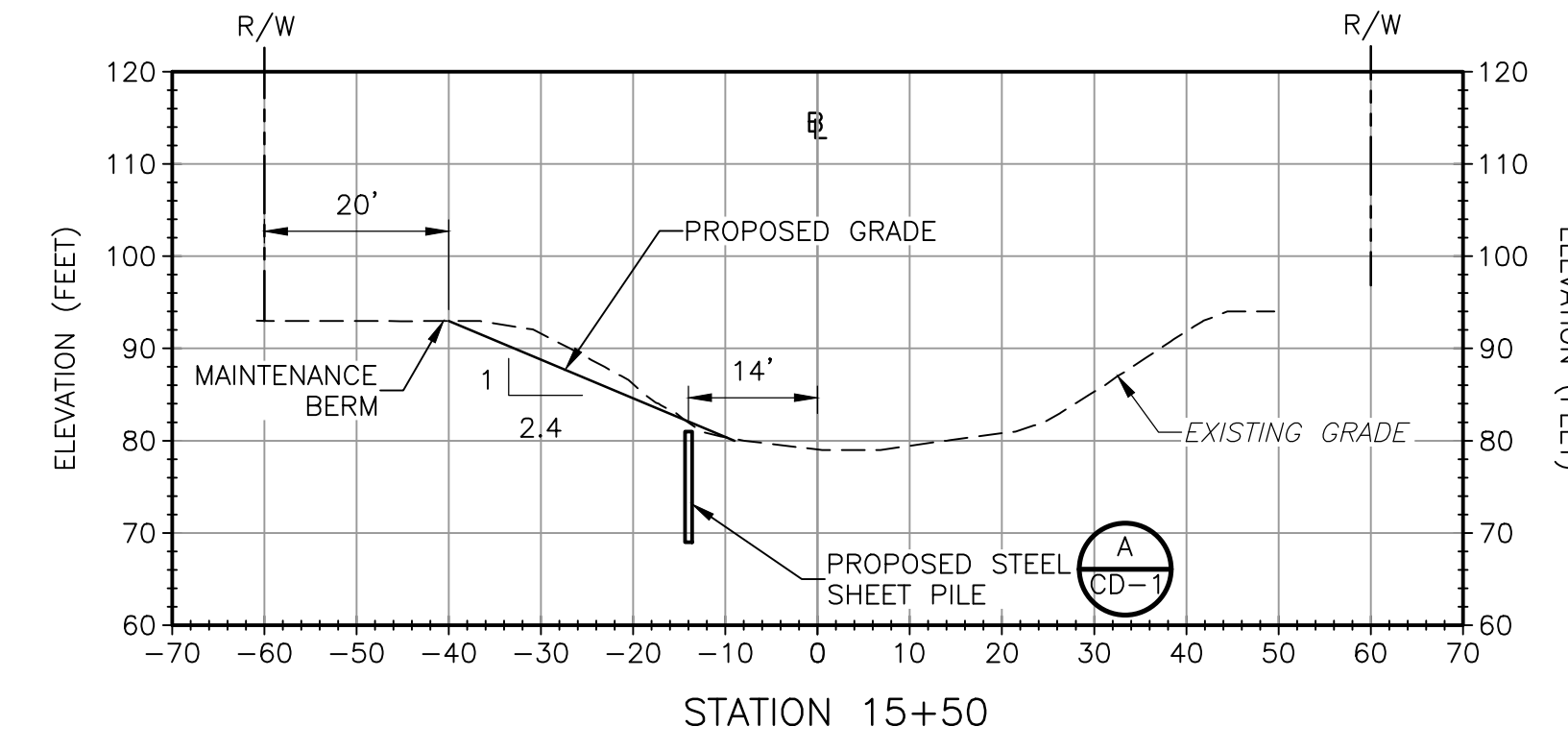
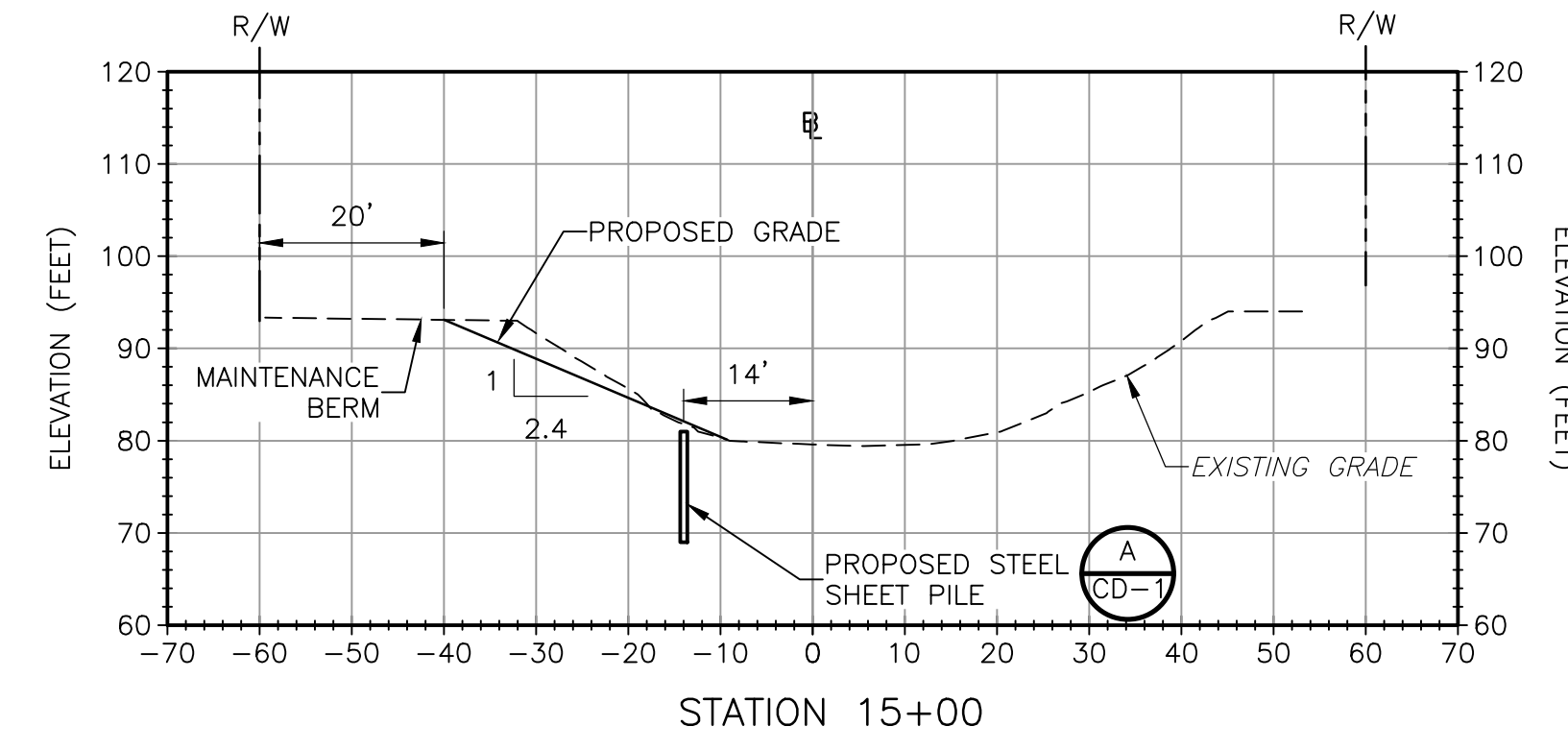
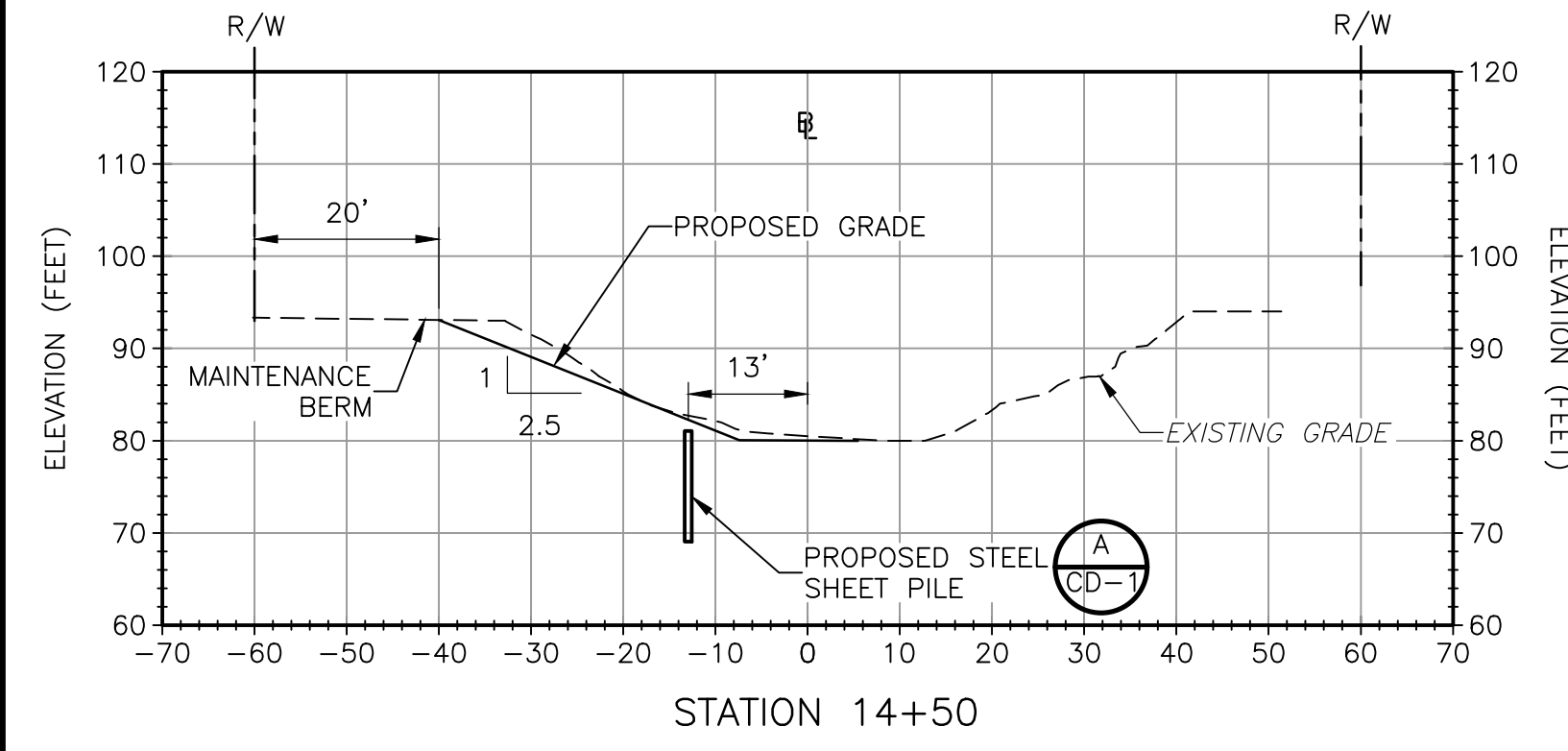
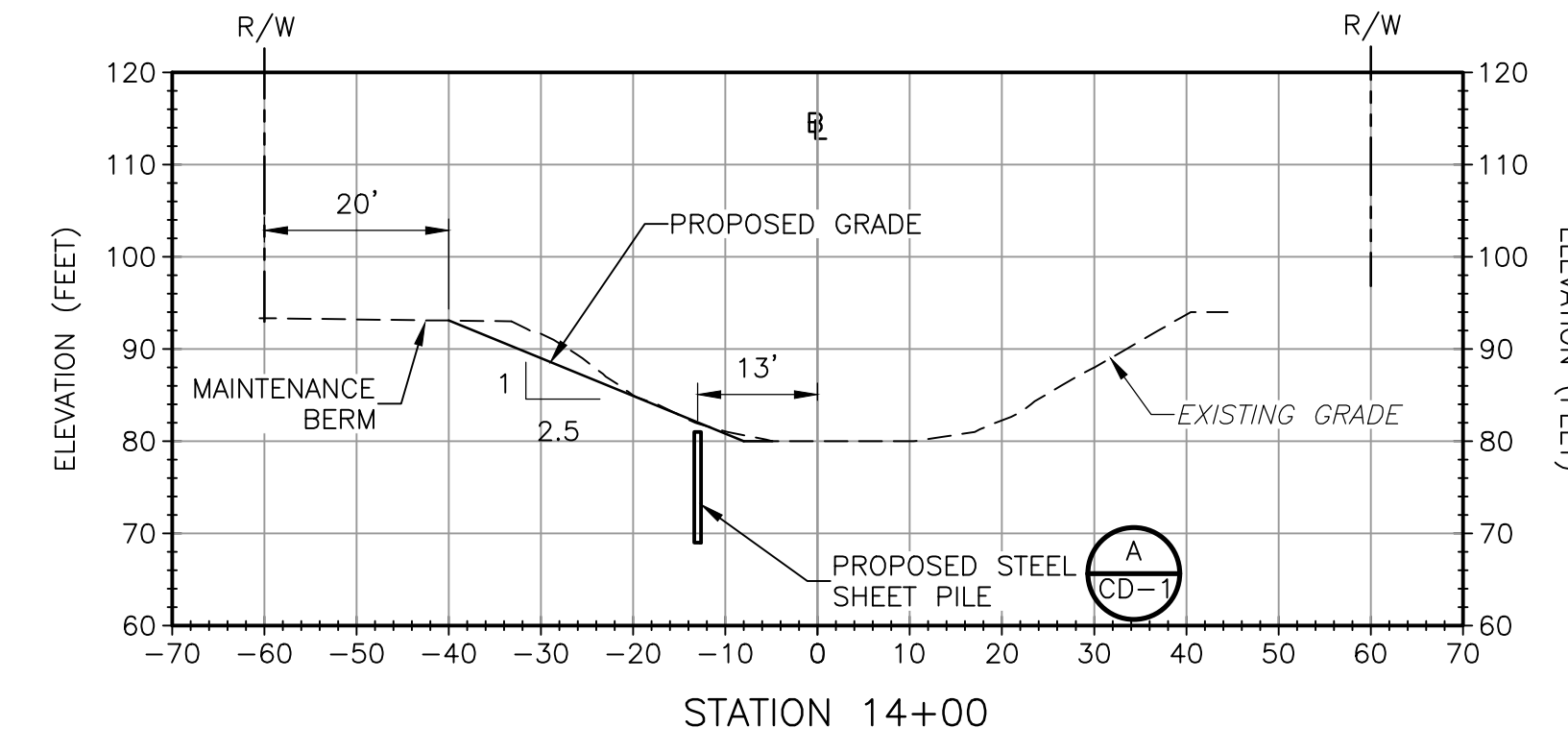
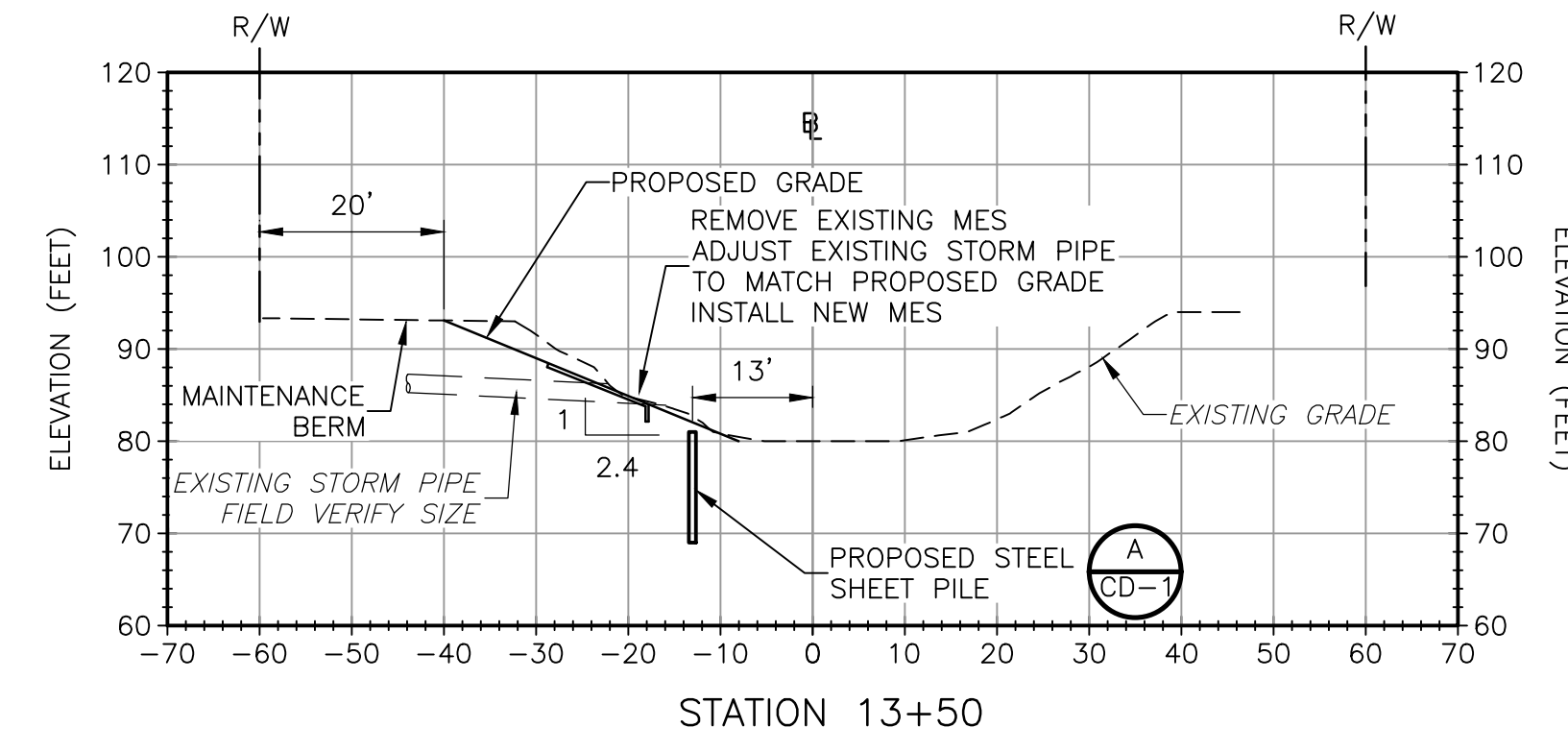
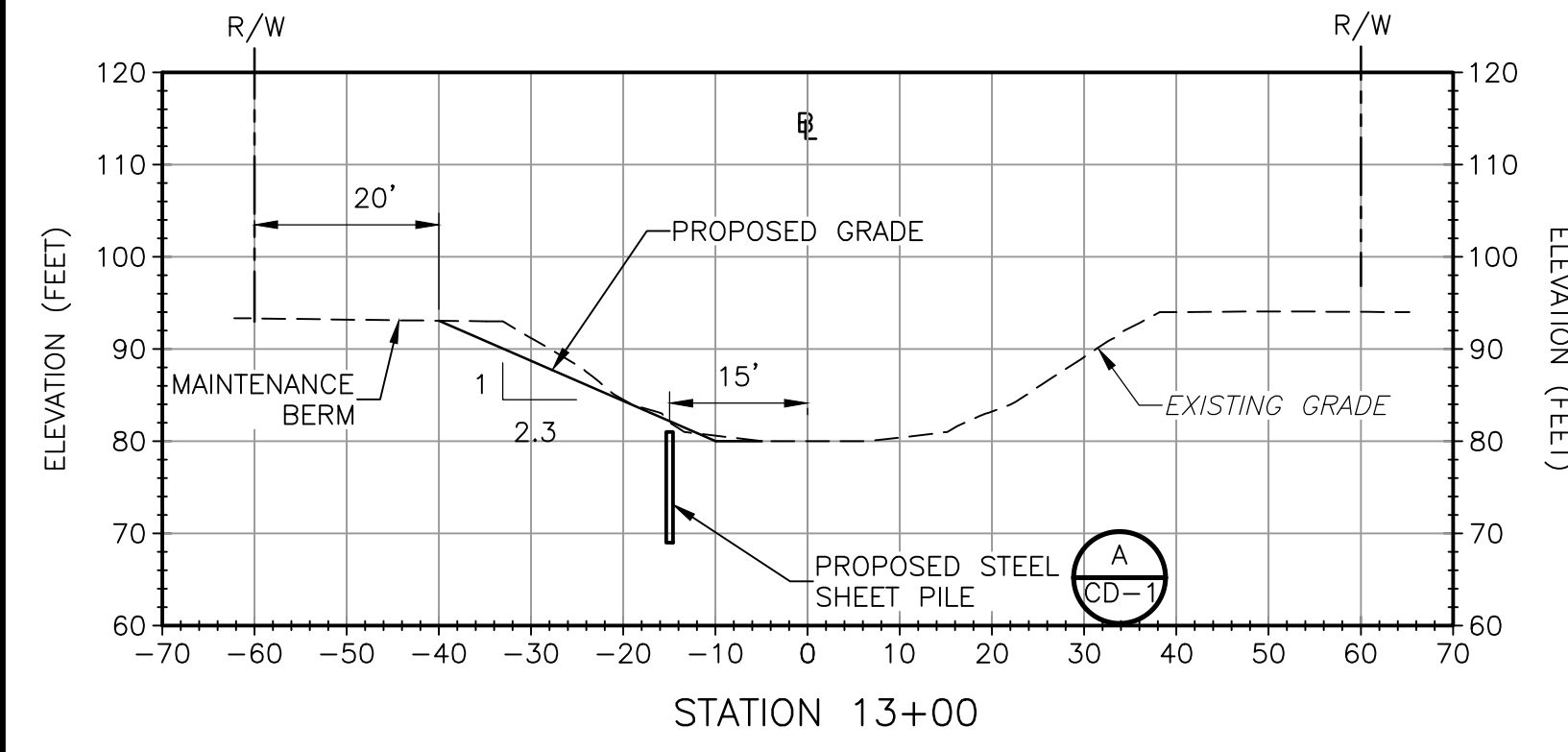
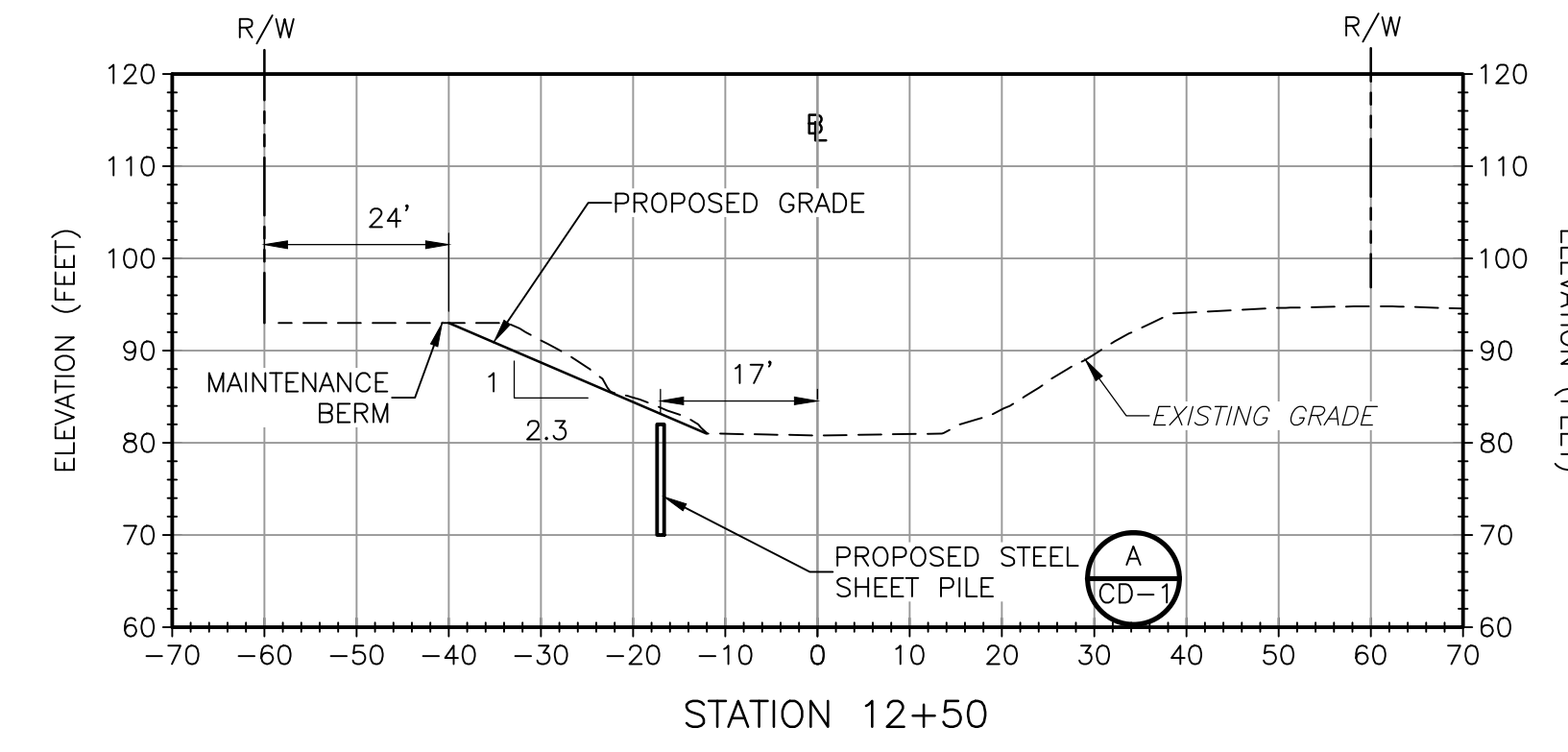
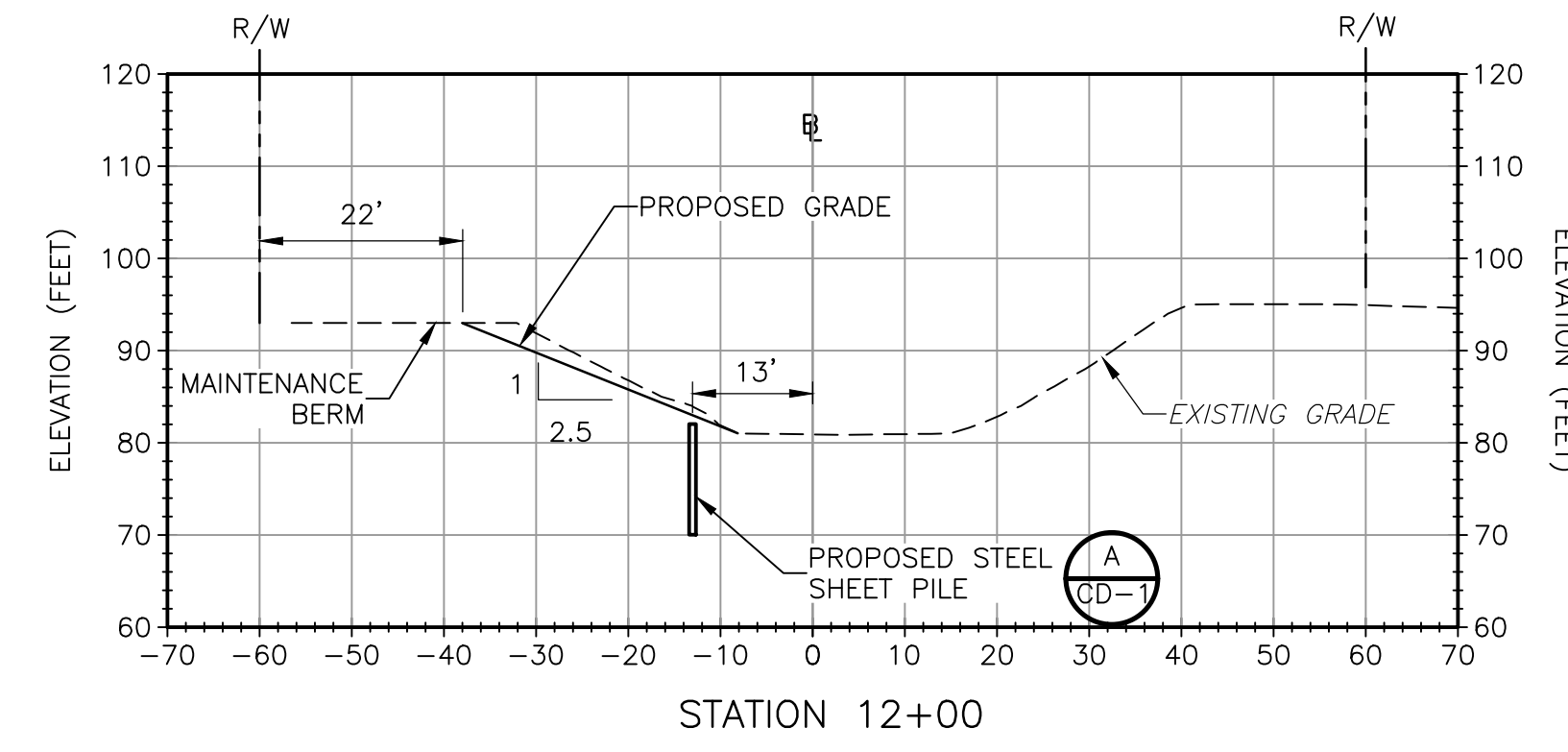
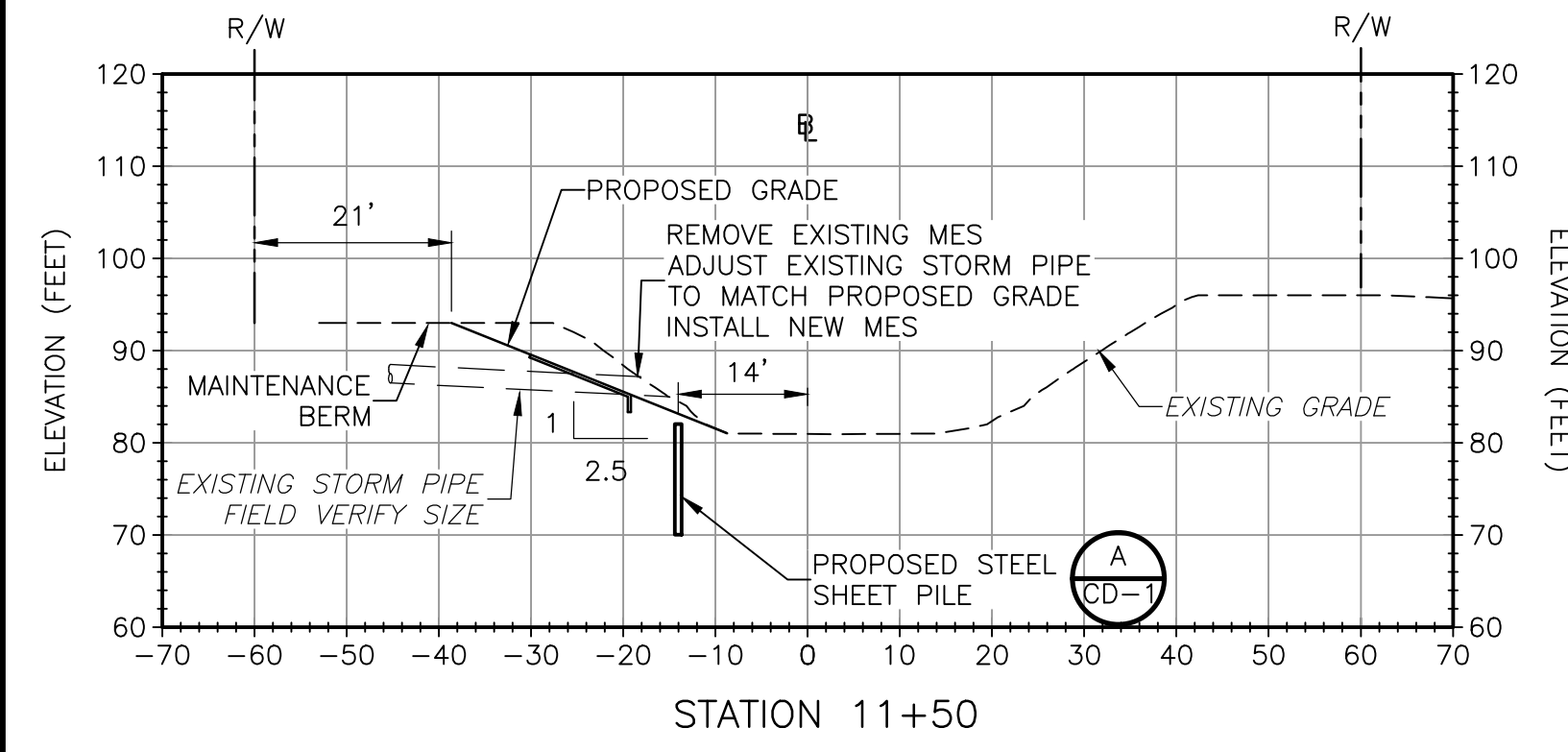


ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 SKY LAKE CANAL
 B-01-L IMPROVEMENTS
 FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

B-01-L
 PLAN AND PROFILE
 C-2

DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110783
 FILE NAME: C002PLPR.DWG
 SHEET NO. C-2

XREFS: [CEZ00055, CDMS_2234] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS
 DRAWN BY: C. SCOTT
 SHEET CHK'D BY: J. HEALY
 CROSS CHK'D BY: J. WITTIG
 APPROVED BY: J. WILLIAMS
 DATE: JUNE 2018



ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 SKY LAKE CANAL
 B-01-L IMPROVEMENTS
 FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

B-01-L CROSS SECTIONS
 DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110783
 FILE NAME: CO03LSEC.DWG
 SHEET NO. C-3

ISSUED FOR BID

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THE CONTRACTOR IS RESPONSIBLE FOR APPROVING AND IMPLEMENTING THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE COMPLETE AND FINAL SWPPP SHALL INCLUDE THE SITE PLAN, EROSION CONTROL PLAN, A NARRATIVE DESCRIPTION, PROJECT NOTES, CONTACT INFORMATION AND SWPPP COMPLIANCE AGREEMENTS FOR ALL CONTRACTORS AND SUBCONTRACTORS. THE CONTRACTOR SHOULD MODIFY THIS SWPPP THROUGHOUT CONSTRUCTION AS SITE CONDITIONS CHANGE.

THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE RESPONSIBLE PARTY OR SUBCONTRACTOR ACCOUNTABLE FOR IMPLEMENTING EACH MEASURE DESCRIBED IN THE SWPPP AND DELEGATING SWPPP RESPONSIBILITIES. THE CONTRACTOR MUST PREPARE AND SIGN THE FOLLOWING CERTIFICATION: "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER." ALL SUBCONTRACTORS ARE REQUIRED TO SIGN A COPY OF THE CERTIFICATION AND ALL CERTIFICATIONS ARE TO BE HELD BY THE CONTRACTOR AS PART OF THE COMPLETE SWPPP.

THE CONTRACTOR SHALL APPROVE THIS STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE GENERAL REQUIREMENTS AND/OR ANY SPECIAL CONDITIONS OF ALL PERMITS WHICH AUTHORIZE THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MODIFYING THE SWPPP FOR CONSTRUCTION ACTIVITIES TO MEET CHANGING PROJECT SITE CONDITIONS.

1.0 SITE DESCRIPTION:

1.A NATURE OF CONSTRUCTION ACTIVITY:

INSTALLING SHEET PILE AND RE-GRADING OF APPROXIMATELY 500 LINEAL FEET OF THE EXISTING CHANNEL.

1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES AS REQUIRED BY CONDITION OF PERMIT. THE CONTRACTOR SHALL IDENTIFY THE SEQUENCE OF MAJOR ACTIVITIES FOR CONTROLLING EROSION AND TRAPPING SEDIMENT.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS PRIOR TO OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED AND APPROVAL TO REMOVE CONTROLS IS PROVIDED BY ENGINEER.

1.C AREA ESTIMATES:

TOTAL SITE AREA: 1.6 ACRES.
 TOTAL AREA TO BE DISTURBED: 0.80 ACRES.

1.D RUNOFF DATA:

APPROXIMATE RUNOFF COEFFICIENTS:
 BEFORE: - 0.20
 AFTER: - 0.20

SOILS DATA: - BASINGER FINE SAND, DEPRESSIONAL
 ST. JOHN'S FINE SAND

OUTFALL INFORMATION:

RECEIVING WATER BODIES: BOGGY CREEK

1.E SITE MAP:

DRAINAGE PATTERNS:

* APPROXIMATE SLOPES: THE SITE GRADES AND SLOPES ARE PRESENTED IN THE PLAN SHEETS.

AREAS OF SOIL DISTURBANCE: CULVERT REPLACEMENT AREAS INCLUDING APPROXIMATELY 20 FEET UPSTREAM AND DOWNSTREAM WITHIN THE CHANNEL, SEE PLANS AND CROSS SECTIONS.

* AREAS NOT TO BE DISTURBED: AREAS OUTSIDE LIMITS OF CONSTRUCTION.

AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE REQUIRED FOR AREAS OF TEMPORARY SOIL DISTURBANCE. PERMANENT STABILIZATION IS SHOWN ON PLANS.

2.0 CONTROLS

2.A EROSION AND SEDIMENT CONTROLS:

THE CONTRACTOR SHALL REVIEW AND APPROVE THIS PLAN TO MANAGE THE STORMWATER RUNOFF TO MINIMIZE EROSION AND TRANSPORT OF SEDIMENTS. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA, UNLESS OTHERWISE SPECIFICALLY DESCRIBED BY THE CONSTRUCTION PLANS AND GRANTED BY PERMIT FROM GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE PROJECT.

PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY MARKED TO PROTECT NATURAL AREAS FROM ENCROACHMENT OF CONSTRUCTION ACTIVITIES.

ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.

2.A.1 STABILIZATION PRACTICES:

THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * ARTIFICIAL COVERINGS AS REQUIRED.
- * SEED AND MULCH, AND SOD IN ACCORDANCE WITH PLANS.

PERMANENT:

- * SOD IN ACCORDANCE WITH PLANS.
- * EROSION CONTROL MATTING
- * RIPRAP

2.A.2 STRUCTURAL PRACTICES:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * SILT FENCE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS, SECTION 104.
- * SANDBAGS TO CONTROL EROSION AND TRAP SILT.
- * SEDIMENT BASIN: TEMPORARY STAGING AREAS TO INCLUDE TEMPORARY SEDIMENTATION BASINS.
- * STORMWATER CONVEYANCE: STABILIZED CHANNEL TO CONVEY RUNOFF AND CONTROL VELOCITIES
- * FLOATING TURBIDITY BARRIER IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS, SECTION 104
- * SLOPE CONTROLS SUCH AS EROSION CONTROL BLANKETS OR TACKIFIERS ON STEEP SLOPES.

PERMANENT:

- * SOD
- * RIPRAP

2.B STORMWATER MANAGEMENT:

THE PROJECT IS WITHIN THE SFWMD AND IS CLASSIFIED AS MAINTENANCE ACTIVITIES

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFFSITE VEHICLE TRACKING & DUST CONTROL:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS, IF APPLICABLE.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

2.C.6 STATE AND LOCAL PLANS AND PERMITS TO BE OBTAINED:

* THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, PERMITTING AND OPERATION OF AN ADEQUATE DEWATERING SYSTEM TO DEWATER EXCAVATIONS FOR CONSTRUCTION IF REQUIRED.

3.0 MAINTENANCE

THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL, AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SILT FENCE: THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 6 MONTH INTERVALS. ANY REPAIRS SHOULD BE MADE IMMEDIATELY AND SEDIMENT REMOVED WHEN IT REACHES A MAXIMUM HEIGHT 1/2 THE BARRIER HEIGHT.
- * SYNTHETIC BALES OR BALE TYPE BARRIERS: REMOVE SEDIMENT WHEN IT REACHES 1/2 HEIGHT OF BALES OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING BALES ON 3-MONTH INTERVALS. NATURAL AND STRAW BALES WILL NOT BE ALLOWED.

* SEEDED OR SODDED AREAS THAT WERE WASHED OUT DUE TO STORMWATER SHALL BE REPLACED IMMEDIATELY OR OTHERWISE STABILIZED.

* CONSTRUCTION ENTRANCE: MAINTENANCE SHALL BE PERFORMED ON THE ROCK CONSTRUCTION DRIVEWAYS WHEN ANY VOID SPACES ARE FULL OF SEDIMENT.

* ALL OTHER BMPS: REPAIR IMMEDIATELY FOLLOWING DAMAGE OR DISPLACEMENT.

4.0 INSPECTIONS:

THE PERMITTEE SHALL BE RESPONSIBLE FOR THE FUNCTIONALITY OF ALL CONTROL MEASURES IN ACCORDANCE WITH THE INSPECTION SCHEDULE OUTLINED BELOW. THE PURPOSE OF SUCH INSPECTIONS WILL BE TO DETERMINE THE OVERALL EFFECTIVENESS OF THE CONTROL PLAN AND THE POSSIBLE NEED FOR ADDITIONAL CONTROL MEASURES.

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

INSPECTIONS SHALL BE RECORDED ON THE FDEP SWPPP INSPECTION FORM AND KEPT ON FILE WITH THE CONTRACTOR AS PART OF THE COMPLETE SWPPP.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER. FOLLOWING FINAL GRADING AND SODDING ACTIVITIES, CONTRACTOR SHALL INSPECT AND REMOVE ANY ACCUMULATED SEDIMENTS FROM EXISTING AND NEW STORMWATER STRUCTURES AND PIPES.

5.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER NOT INDICATED ON THE CONSTRUCTION DRAWINGS, ALL CONSTRUCTION ACTIVITIES SHALL STOP, AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR FURTHER INSTRUCTIONS.

NON-STORMWATER DISCHARGES FOR THIS PROJECT ARE EXPECTED TO INCLUDE UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION), PAVEMENT WASH WATER (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS SUBSTANCES HAVE OCCURRED) AND ANY WATER USED FOR DUST CONTROL. TURBID AND OTHER NON-STORMWATER DISCHARGES SHALL BE TREATED SO AS TO NOT ALLOW A DISCHARGE OF POLLUTED STORMWATER. APPROPRIATE TREATMENT MAY INCLUDE TURBIDITY CONTROLS, SETTLING PONDS, THE PROPER USE OF FLOCCULATING AGENTS, OR OTHER APPROPRIATE MEANS.

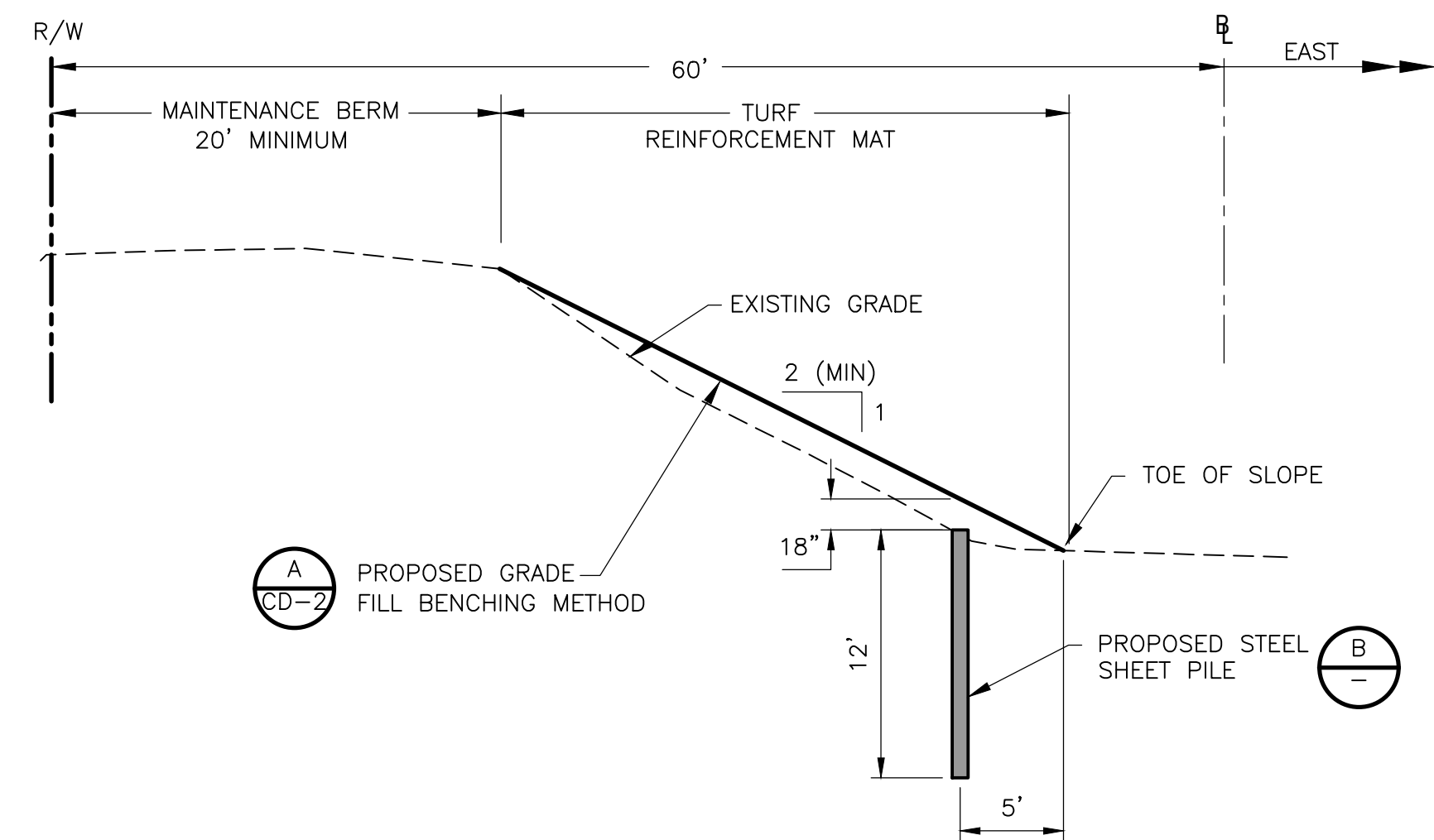
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS	 101 Southhill Lane, Suite 200 Maitland, FL 32751 Tel: (407) 660-2552 FL COA No. EB-0000020
DRAWN BY: C. SCOTT	
SHEET CHK'D BY: J. HEALY	
CROSS CHK'D BY: J. WITTIG	
APPROVED BY: J. WILLIAMS	
DATE: JUNE 2018	

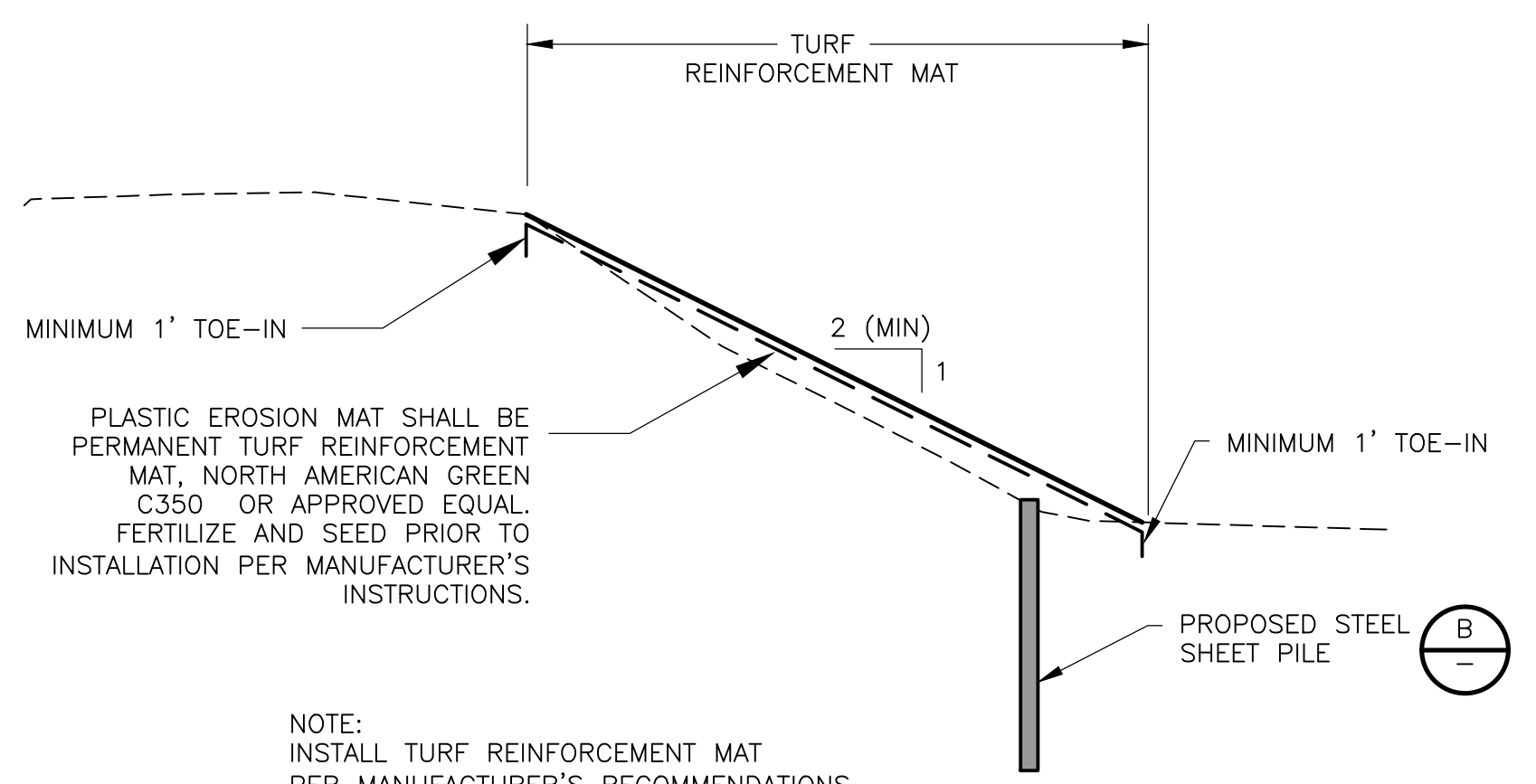
ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 SKY LAKE CANAL
 B-01-L IMPROVEMENTS
 FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

STORMWATER POLLUTION PREVENTION PLAN

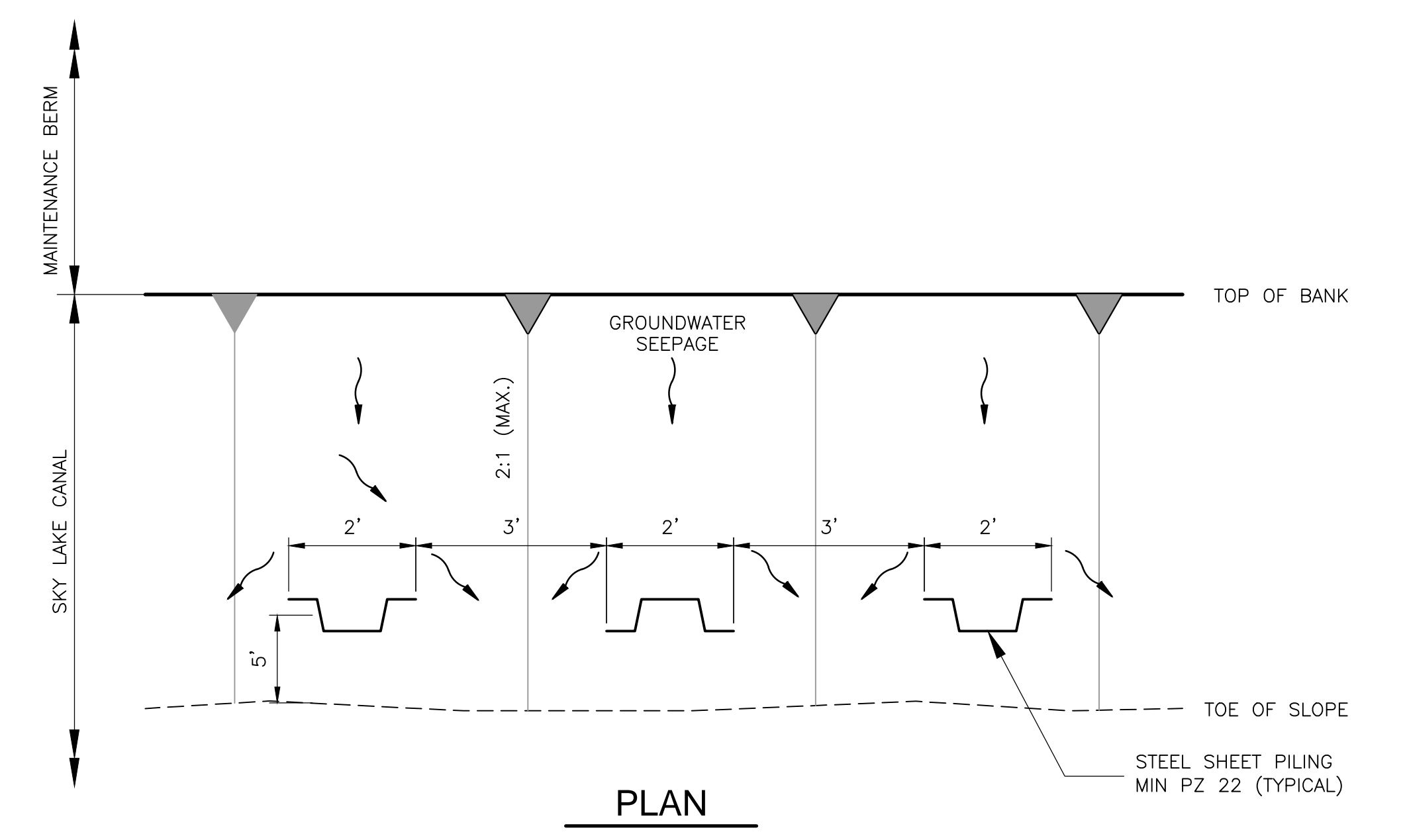
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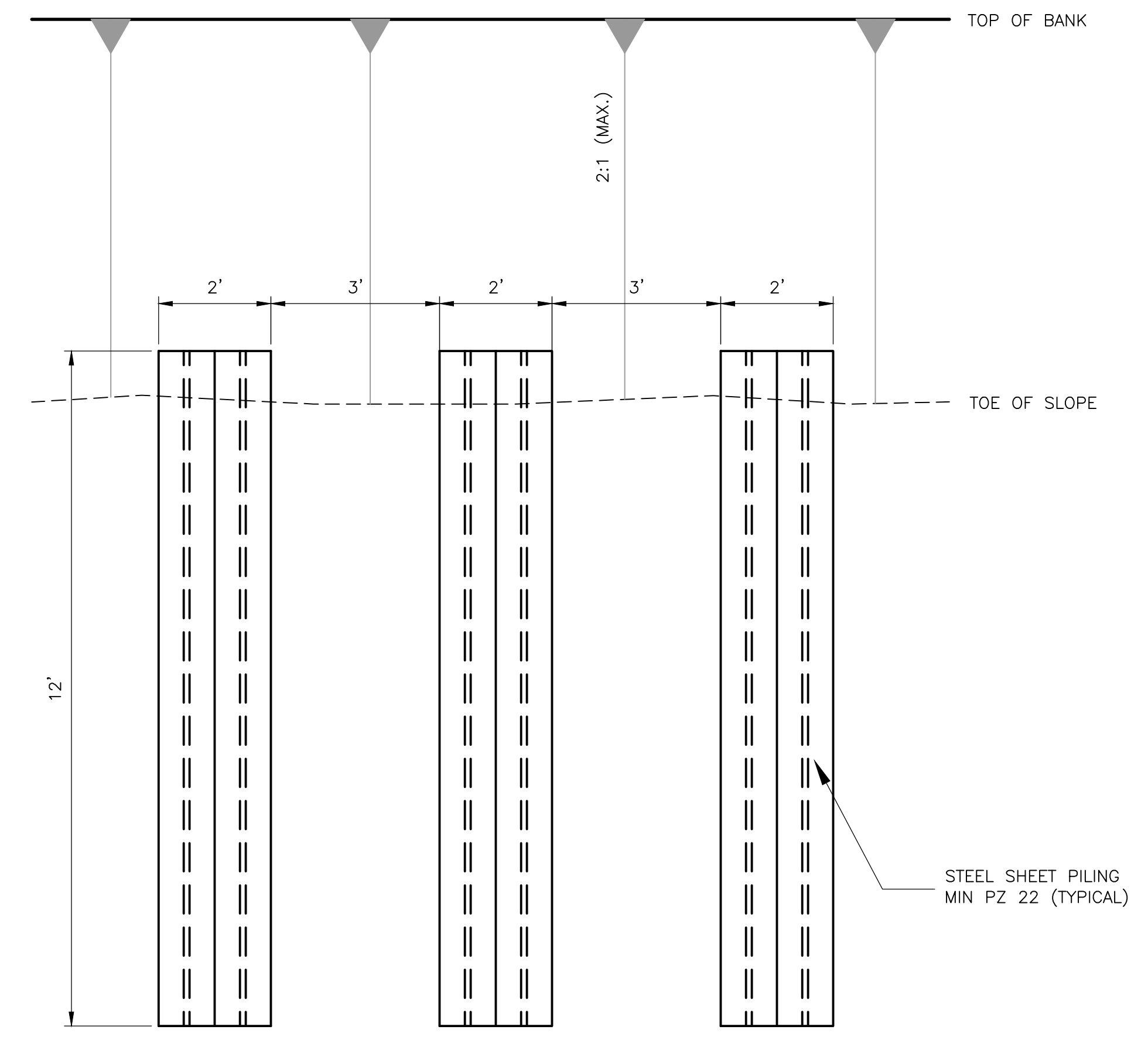
TYPICAL B-01-L SLOPE IMPROVEMENT
DETAIL A
 NTS



PLASTIC EROSION MAT
DETAIL B
 NTS



PLAN



ELEVATION

TYPICAL STEEL SHEET PILE INSTALLATION
DETAIL B
 NTS

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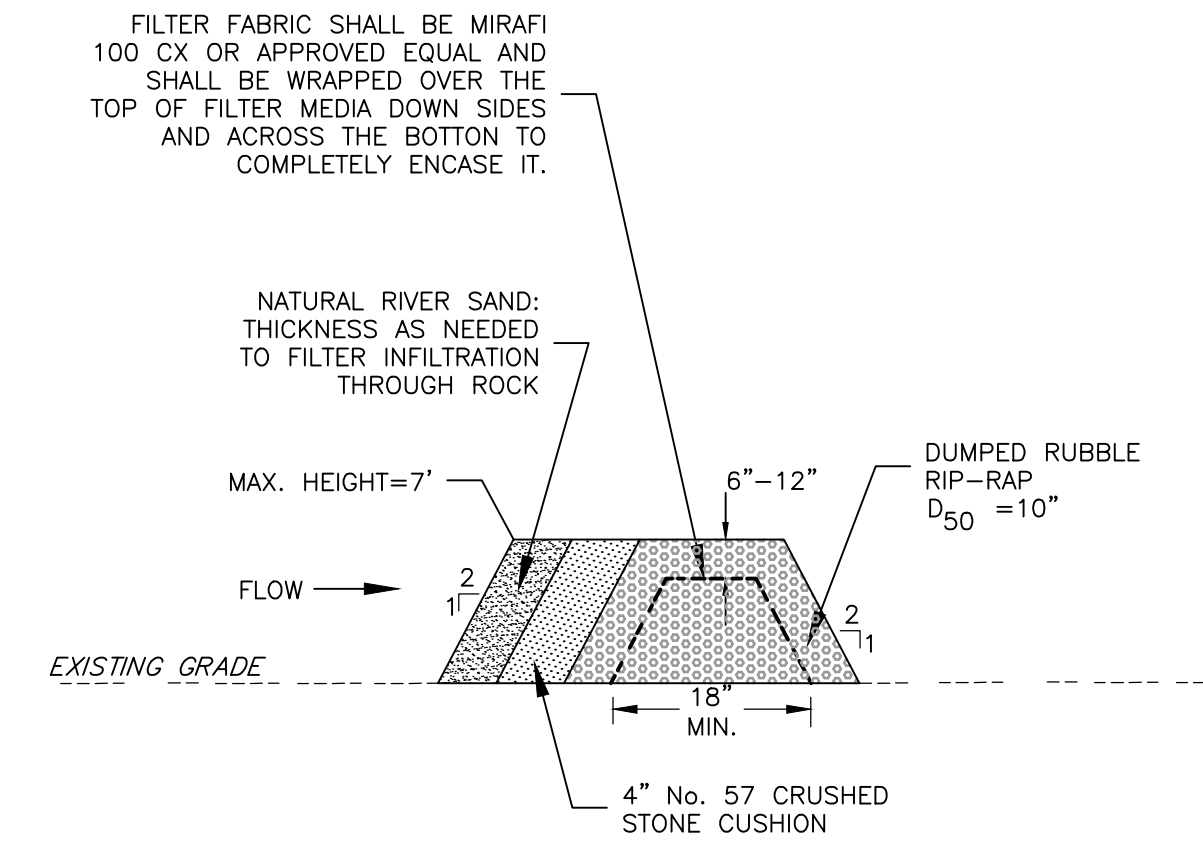
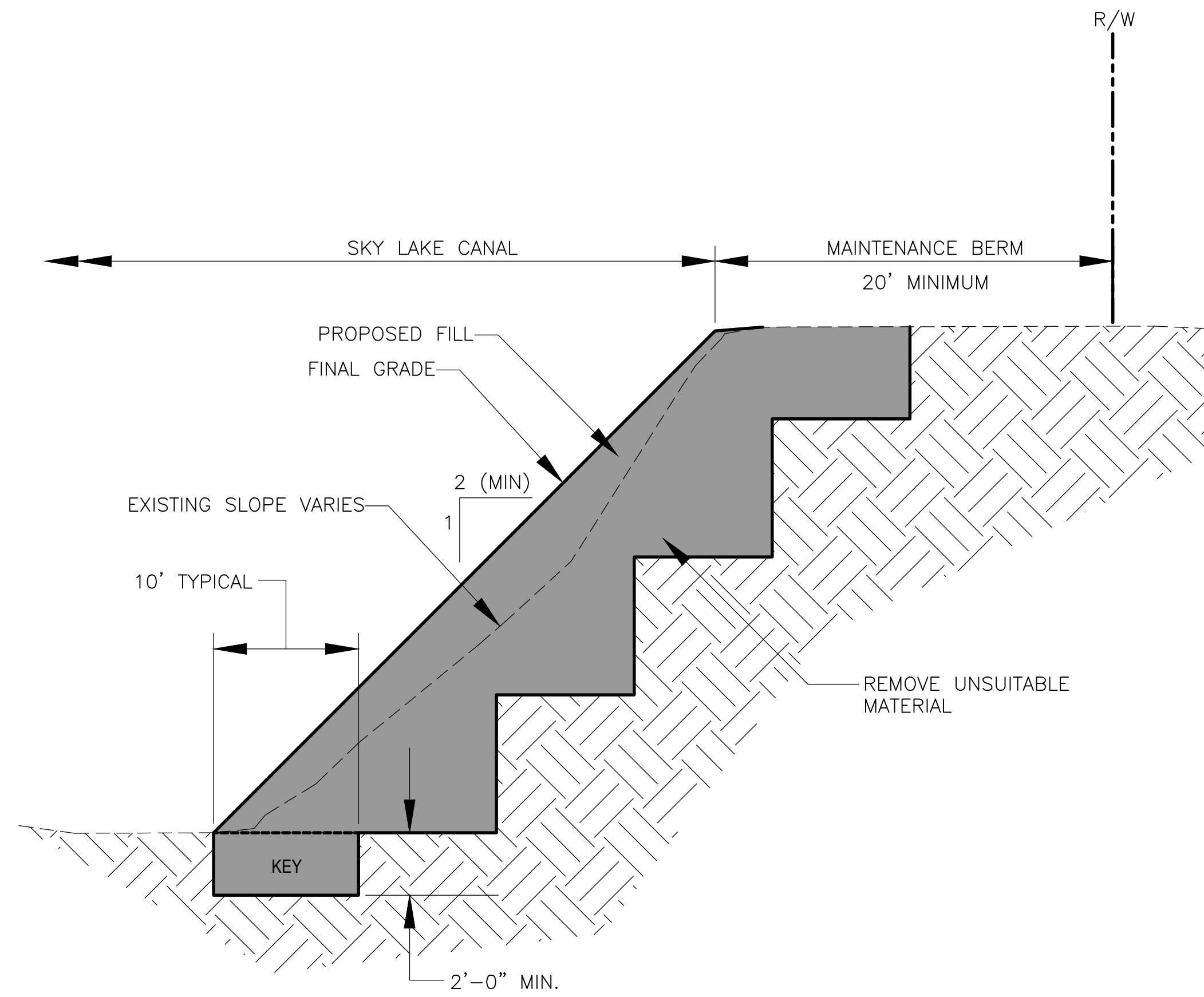
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ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 SKY LAKE CANAL
 B-01-L IMPROVEMENTS
 FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

CIVIL DETAILS
 CD-1

DATE:	JANE M WILLIAMS
PE NO.:	64088
PROJECT NO.:	6059-110783
FILE NAME:	CD01DTLS.DWG
SHEET NO.:	CD-1



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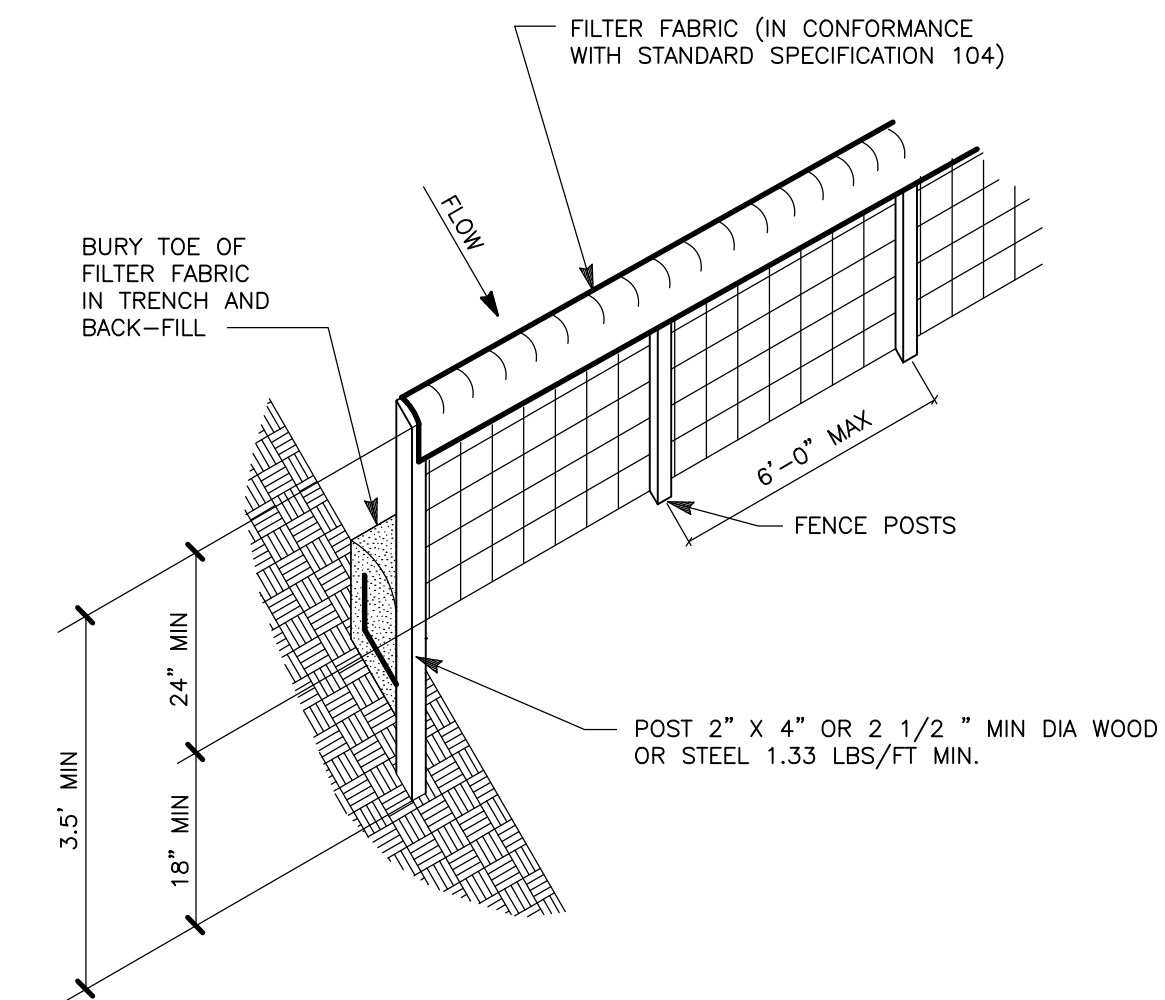
DETAIL B
NTS

NOTES:

- AREAS TO BE FILLED SHOULD BE CLEARED, STRIPPED AND GRUBBED TO REMOVE ALL SURFACE VEGETATION, ROOTS, TOPSOIL AND OTHER DELETERIOUS MATERIALS AND THEN PROOF ROLLED. SOFT AREAS OR EXCESSIVELY WET SOILS SHOULD BE EXCAVATED, REMOVED, DRIED AND/OR REPLACED WITH SUITABLE COMPACTED FILL, AS DESCRIBED BELOW.
- TOPSOIL SHOULD BE STRIPPED TO A MINIMUM DEPTH OF ONE (1) FOOT AND COMPACTED AS DESCRIBED BELOW.
- MATERIALS TO BE USED FOR FILLING SHALL BE LIMITED TO HARDPAN TYPE FINE SAND WITH FINES IN THE RANGE OF 5 TO 12 PERCENT PASSING THE NO. 200 SIEVE. BACKFILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 12-INCHES LOOSE THICKNESS AND COMPACTED TO A MINIMUM DENSITY EQUIVALENT TO 95 PERCENT OF THE SOILS MAXIMUM MODIFIED PROCTOR DENSITY VALUE (AASHTO T-180). OVERBUILD BY A MINIMUM OF ONE (1) FOOT BEYOND THE FINAL SLOPE IS REQUIRED. AFTER COMPACTION AND REBUILDING OF THE EMBANKMENT SLOPE IN 12-INCH LIFTS, THE OVERBUILD SECTIONS SHALL BE EXCAVATED AND TRIMMED TO ACHIEVE THE DESIRED PROFILES AND GRADES.
- THE SIDE SLOPES SHALL THEN BE SODDED AND PINNED IN PLACE UNTIL THE SOD IS PROPERLY ESTABLISHED.
- COMPACTION SHOULD BE ACCOMPLISHED BY A LARGE SELF-PROPELLED VIBRATORY ROLLER WITH A MINIMUM STATIC WEIGHT OF 12,000 POUNDS AND CAPABLE OF EXERTING A MINIMUM IMPACT ENERGY OF 20,000 POUNDS.
- QUALITY CONTROL TESTS SHALL BE PERFORMED TO CONFIRM COMPLIANCE WITH THE ABOVE SPECIFICATIONS. AT LEAST ONE (1) COMPACTION TEST SHOULD BE COMPLETED FOR EVERY 15,000 SQUARE FEET OF FILL FOR EACH 1-FOOT LIFT THICKNESS.
- THE FILL BENCHING DETAIL SHOULD BE CONSIDERED TO BE A GENERALIZED SCHEMATIC. THE CONTRACTOR SHOULD SUBMIT A PLAN OF ACTION FOR REVIEW AND APPROVAL BEFORE COMMENCING THE WORK.

FILL BENCHING

DETAIL A
NTS



SILT FENCE

DETAIL C
NTS

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ORANGE COUNTY, FLORIDA
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 SKY LAKE CANAL
 B-01-L IMPROVEMENTS
 FROM LANDSTREET ROAD TO TAFT VINELAND ROAD

CIVIL DETAILS
 SHEET NO.
CD-2

DATE:
 JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110783
 FILE NAME: CD02DTLS.DWG
 SHEET NO.
CD-2