



OSCEOLA COUNTY, FLORIDA

CONSTRUCTION PLANS FOR KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

FINANCIAL PROJECT ID 439067-1-58-01
FAN NO. D522-077-B

PLANS PREPARED FOR:
OSCEOLA COUNTY TRANSPORTATION
AND TRANSIT DEPARTMENT
1 COURTHOUSE SQ SUITE 3100
KISSIMMEE, FLORIDA 34741
PH: 407-742-0552
FAX: 407-742-0560

SHOP DRAWINGS
TO BE SUBMITTED TO:
STEPHEN P. DICIERO, P.E.
KELLY, COLLINS & GENTRY, INC.
1700 N. ORANGE AVE.
SUITE 400
ORLANDO, FLORIDA 32804

COMPONENTS OF CONTRACT PLANS SET
TRAIL PLANS

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GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION,
FY 2023-24 STANDARD PLANS FOR ROAD AND
BRIDGE CONSTRUCTION AND APPLICABLE
INTERIM REVISIONS (IRS), AND FY 2023-24
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, AS AMENDED BY
CONTRACT DOCUMENTS.

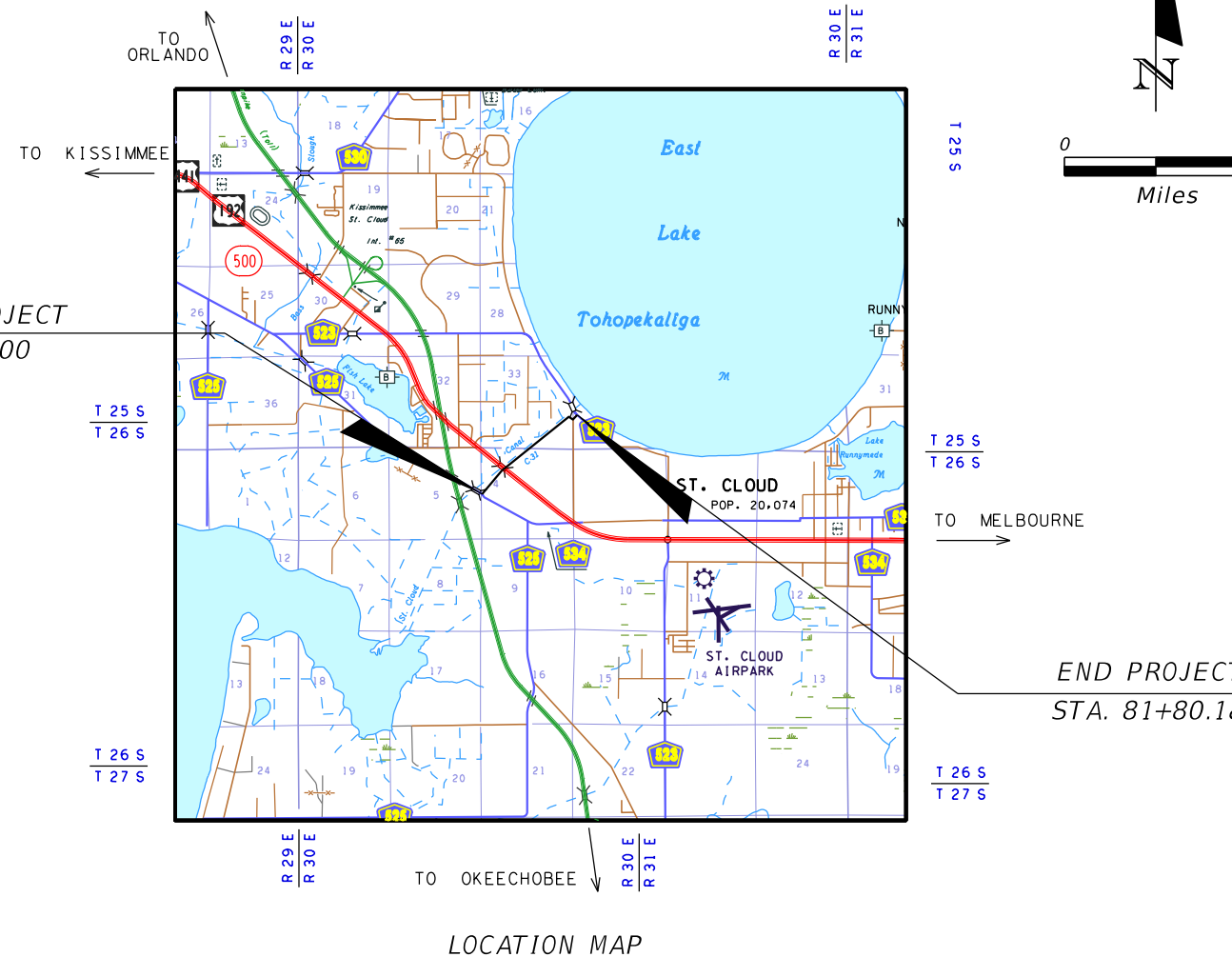
APPLICABLE DESIGN STANDARDS:

Standard Plans for Road Construction and associated
IRs are available at the following website:
<http://www.fdot.gov/design/standardplans>

Standard Specifications for Road and Bridge
Construction are available at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

OSCEOLA COUNTY

PEGGY CHOUDHRY	DISTRICT 1
VIVIANA JANER	DISTRICT 2
BRANDON ARRINGTON	DISTRICT 3
CHERYL GRIEB	DISTRICT 4
RICKY BOOTH	DISTRICT 5
TAWNY H. OLORE, P.E.	EXECUTIVE DIRECTOR, TRANSPORTATION & TRANSIT



LENGTH OF PROJECT		
	LINEAR FEET	MILES
AT GRADE SIDEWALK	7780.18	1.47
NET LENGTH OF PROJECT	7780.18	1.47
GROSS LENGTH OF PROJECT	7780.18	1.47

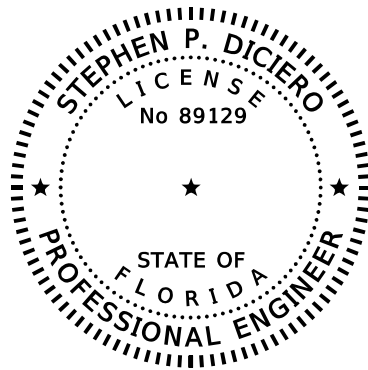
NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

OSCEOLA COUNTY PROJECT MANAGER: KYLE DORRIS, P.E.

SHEET
NO.

1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

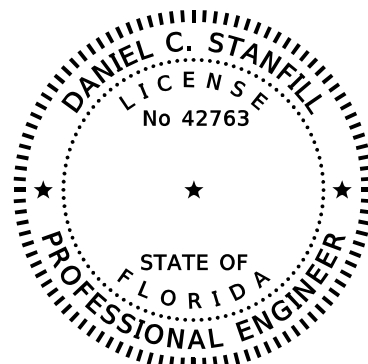
ON THE DATE ADJACENT TO THE SEAL

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KELLY, COLLINS, & GENTRY INC.
1700 NORTH ORANGE AVENUE
ORLANDO, FLORIDA 32804
CERTIFICATE OF AUTHORIZATION: 7350
STEPHEN P. DICIERO, P.E. NO. 89129

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	KEY SHEET
1A	SIGNATURE SHEET
2	SUMMARY OF PAY ITEMS
3 - 4A	TYPICAL SECTION
5 - 5A	PROJECT NOTES
6 - 8	HORIZONTAL ALIGNMENT DATA
9	PROJECT CONTROL DATA
10	PROJECT LAYOUT
11 - 24	PLAN & PROFILE
24A	INTERSECTION DETAIL
25 - 35	CROSS SECTIONS
36 - 36A	DRAINAGE DETAILS
37 - 38	STORMWATER POLLUTION PREVENTION PLAN
39	TREE PROTECTION BARRICADE DETAIL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

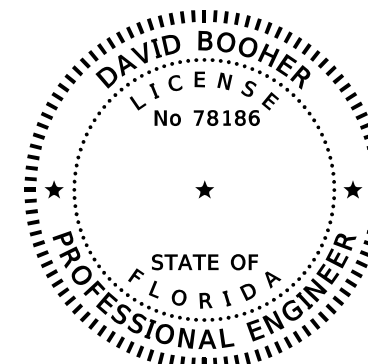
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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC
2510 MICHIGAN AVENUE, SUITE D
KISSIMMEE, FLORIDA 34744
CERTIFICATE OF AUTHORIZATION: 5882
DANIEL C. STANFILL, P.E. 42763

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1A	SIGNATURE SHEET
GR-1	TRAIL SOIL SURVEY
42	REPORT OF BORING RESULTS FOR WALLS
43	REPORT OF BORING RESULTS FOR TRAIL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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QUIGG ENGINEERING INC.
600 NORTH BROADWAY AVENUE, SUITE 301
BARTOW, FLORIDA 33830
CERTIFICATE OF AUTHORIZATION: 30924
DAVID BOOHER, P.E., S.E. 78186

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1A	SIGNATURE SHEET
40	RETAINING WALL PLAN & PROFILE
41	RETAINING WALL DETAILS
44	US 192 BRIDGE UNDERDECK LIGHTING PLAN & DETAILS

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY		SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			1A

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAY ITEMS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL	
			PLANS	FINALS
101-1	MOBILIZATION	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
104-10-3	SEDIMENT BARRIER	LS	1	
104-11	FLOATING TURBIDITY BARRIER	LS	1	
104-15	SOIL TRACKING PREVENTION DEVICE	EA	2	
110-1-1	CLEARING AND GRUBBING	LS	1	
110-22	TREE ROOT AND BRANCH PRUNING	LS	1	
120-1	REGULAR EXCAVATION	LS	1	
120-4	SUBSOIL EXCAVATION	LS	1	
120-6	EMBANKMENT	LS	1	
285-701	RECYCLED CONCRETE AGGREGATE BASE, LBR 150, 4"	SY	2268	
285-704	GRAVEL DRIVE - 6" CRUSHED CONCRETE	SY	944	
327-70-1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVG DEPTH	SY	1163	
337-7-80	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-9.5, PG 76-22	TN	64	
400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY	377.4	
425-1-351	INLETS, CURB, TYPE P-5, <10'	EA	1	
425-1-411	INLETS, CURB, TYPE J-1, <10'	EA	2	
425-1-529	INLETS, DITCH BOTTOM, TYPE C MODIFIED	EA	1	
425-1-531	INLETS, DITCH BOTTOM, TYPE C MODIFIED - BACK OF SIDEWALK, <10'	EA	1	
425-1-541	INLETS, DITCH BOTTOM, TYPE D, <10'	EA	6	
425-1-549	INLETS, DITCH BOTTOM, TYPE D, MODIFIED	EA	3	
425-2-41	MANHOLES, P-7, <10'	EA	1	
425-2-91	MANHOLES, J-8, <10'	EA	5	
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	482	
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD	LF	46	
430-175-130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30" S/CD	LF	15	
430-175-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36" S/CD	LF	1207	
430-175-136A	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36" S/CD	LF	416	
430-518-100	STRAIGHT CONCRETE ENDWALLS, 18" SINGLE, 0 DEGREES, ROUND	EA	1	
430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	5	
430-982-129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	1	
430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	4	
443-70-3	EXFILTRATION SYSTEM, 18" SLOTTED PIPE	LF	232	
515-2-311	PEDESTRIAN / BICYCLE RAILING, ALUMINUM, 42" TYPE 1	LF	1581	
519-78	BOLLARDS	EA	6	
520-1-10	CONCRETE CURB & GUTTER, TYPE F, MODIFIED	LF	674	
522-1	CONCRETE SIDEWALK, 4" THICK	SY	9441	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1932	
522-2-99	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK, REINFORCED	SY	425	
530-3-3	RIPRAP-RUBBLE, BANK & SHORE	TN	371	
530-74	BEDDING STONE	TN	67	
550-10-220	FENCING, TYPE B, 0-6', STANDARD	LF	882	
550-60-222	FENCE GATE, TYPE B, DOUBLE, 6.1-12' OPENING	EA	1	
570-1-2	PERFORMANCE TURF, SOD	SY	19500	
654-2-21	RECTANGULAR RAPID FLASHING BEACON, COMPLETE SIGN ASSEMBLY	EA	2	
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	EA	7	

SUMMARY OF PAY ITEMS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL	
			PLANS	FINALS
700-1-60	SINGLE POST SIGN, REMOVE	EA	1	
700-3-101	SIGN PANEL, F&I, UP TO 12 SF	EA	1	
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	158	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	259	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	4	
711-16-101	THERMOPLASTIC, STD.-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.123	
711-16-201	THERMOPLASTIC, STD.-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.206	
711-16-241	THERMOPLASTIC, STD.-OTHER SURFACES, YELLOW, 2'-2' DOTTED EXT., 6"	GM	0.195	
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	300	
630-2-15	CONDUIT, F&I, BRIDGE MOUNT	LF	300	
635-2-11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	3	
635-3-12	JUNCTION BOX, F&I, MOUNTED	EA	14	
639-1-121	ELECT. POWER SERVICE, F&I, UNDERGROUND, METER FURN. BY POWER COMPANY	AS	1	
639-2-1	ELECT. SERVICE WIRE, FURNISH & INSTALL	LF	250	
639-3-11	ELECT. SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II, SERVICE POLE	EA	2	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	2226	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1	
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	9	

PAY ITEM NOTES

- 102-1 INCLUDES ALL ITEMS NECESSARY FOR MAINTENANCE OF TRAFFIC INCLUDING ALL TEMPORARY ACCESS ROUTES. CONTRACTOR IS RESPONSIBLE FOR SECURING THE NEEDED DOCUMENTS INCLUDING A RIGHT OF ENTRY PERMIT AND/OR AN INGRESS/EGRESS PERMIT FROM SFWMD.
- 110-1-1 INCLUDES ALL COSTS OF EXISTING TREE PROTECTION (TREE BARRICADES), ROOT CONTROL BARRIER PANELS, SOIL TRACKING DEVICES, MOWING, LITTER REMOVAL, AND OTHER INCIDENTAL ITEMS NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENT. INCLUDES REMOVAL OF EXISTING FENCE AND REINFORCING H-TYPE BRACING.
- 120-1 & 120-6 EXCAVATION AND EMBANKMENT SHALL BE PERFORMED PER SFWMD SPECIFICATIONS SECTION 02220.
- 285-701 INCLUDES THE COST OF TYPE R-2 GEOGRID PER FDOT SPECIFICATION 985.
- 285-704 INCLUDES THE COST OF 6" CRUSHED CONCRETE AND COMPACTED SUBGRADE.
- 400-0-11 INCLUDES COST OF ALL REINFORCING (SEE STRUCTURAL PLANS/DETAILS).
- 430-175 COST OF CONCRETE JACKET TO BE INCLUDED IN THE COST OF PIPE CULVERT.
- 430-175-136A SFWMD PROJECT CULVERT REPLACEMENT TO BE CONSTRUCTED PER SFWMD SPECIFICATIONS SECTION 02260. SEE PLANS FOR SFWMD PROJECT CULVERT LOCATIONS.
- 443-70-3 INCLUDES COST OF ALL COMPONENTS OF EXFILTRATION SYSTEM, INCLUDING SLOTTED PIPE, COARSE AGGREGATE, AND FILTER FABRIC AS SHOWN ON THE DRAINAGE DETAILS SHEET.
- 522-1 & 522-2 INCLUDES COST OF COMPACTED SUBGRADE. SEE NOTE 5 ON THE TYPICAL SECTION SHEET FOR ADDITIONAL INFORMATION REGARDING COMPACTION.
- 522-2-99 INCLUDES COST OF REINFORCEMENT AND MODIFYING THE EXISTING ARTICULATED BLOCK IN THE VICINITY OF US 192 UNDERPASS (SEE STRUCTURAL PLANS/DETAILS). INCLUDES COST OF REMOVING EXISTING ARTICULATED BLOCK IN THE VICINITY OF THE US 192 BRIDGE UNDERPASS NOT COVERED BY OTHER PAY ITEMS. INCLUDES COST OF #68 COARSE AGGREGATE AND TYPE D-2 GEOTEXTILE FABRIC.
- 530-3-3 RIPRAP TO BE INSTALLED PER SFWMD SPECIFICATIONS SECTION 02370.
- 530-74 BEDDING STONE TO BE INSTALLED PER SFWMD SPECIFICATIONS SECTION 02370.
- 550-10-220 CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS TWO WEEKS PRIOR TO REMOVAL OF EXISTING FENCE AND INSTALLATION OF NEW FENCE. CONTRACTOR SHALL CONSTRUCT ALL PROPOSED FENCE FROM THE TRAIL CORRIDOR. SEE PLAN SHEETS FOR LOCATIONS OF 6' AND 4' HIGH TYPE B FENCING. 4' HIGH TYPE B FENCE SHALL INCLUDE 1-5/8" DIAMETER TOP RAIL.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



KELLY, COLLINS & GENTRY, INC.
ENGINEERING / PLANNING
1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY

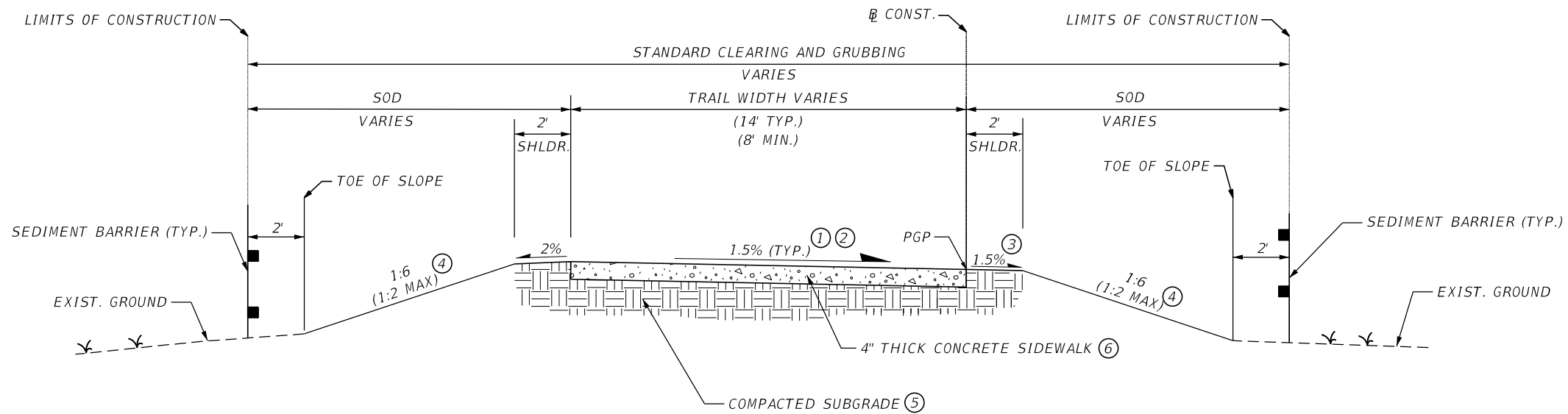
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

SUMMARY OF PAY ITEMS

SHEET NO.

2

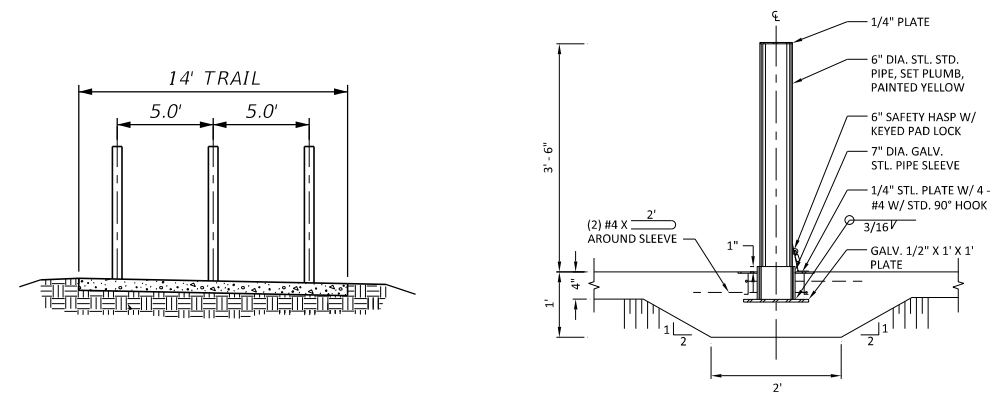
TYPICAL C-31 CANAL SIDE OF PROJECT



TYPICAL SECTION (1)
CONCRETE SECTION
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL
 STA. 4+65.07 TO STA. 46+57.00
 STA. 57+90.00 TO STA. 75+08.02

NOTES:

1. CROSS SLOPE SHALL NOT EXCEED 0.02 OR BE LESS THAN 0.01 EXCEPT AS NOTED IN PLANS.
2. CONTRACTOR MUST CUT EXPANSION JOINTS ALONG CURVES AT PC AND PT AND ALL OTHER INTERMEDIATE JOINTS PER STANDARD PLANS INDEX 350-001.
3. SEE STANDARD PLANS INDEX NUMBER 570-010.
4. REFER TO CROSS SECTIONS FOR AREAS WITH NON-TYPICAL SIDE SLOPES. (MAXIMUM 1:2)
5. COMPACT FILL TO A MINIMUM OF 98% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM STANDARD D-1557 FOR EACH LIFT OF FILL PLACED. PLACE FILL IN LEVEL LIFTS NO THICKER THAN 12 INCHES. THINNER LIFTS MAY BE NEEDED TO ACHIEVE COMPACTION IN SILTY OR CLAYEY SOILS.
6. SEE PLANS FOR AREAS WHERE 6" THICK CONCRETE IS REQUIRED



BOLLARD DETAILS
 NTS

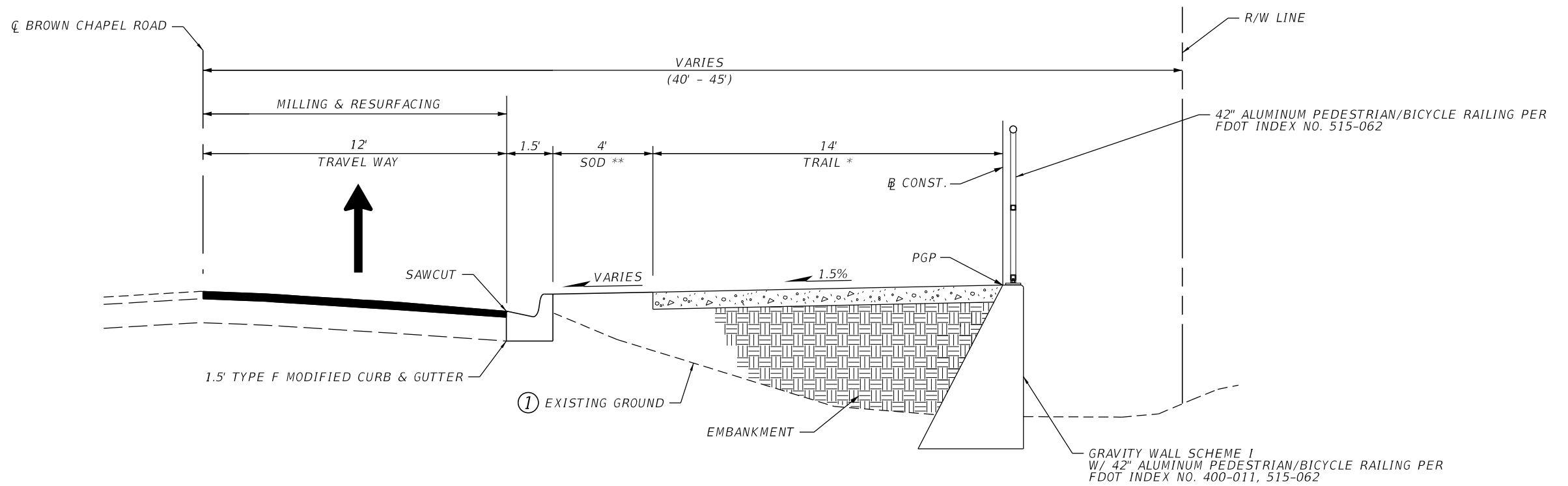
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 ENGINEERING / PLANNING
 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

TYPICAL SECTION
 SHEET NO. **3**

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TYPICAL SECTION (2)
CONCRETE SECTION
BROWN CHAPEL ROAD

STA. 75+08.02 TO STA. 81+00.00

- * TRAIL NARROWS TO 12' NEAR STA. 79+00
- ** 4' SOD PARKWAY NARROWS TO 3.5' NEAR STA. 79+40

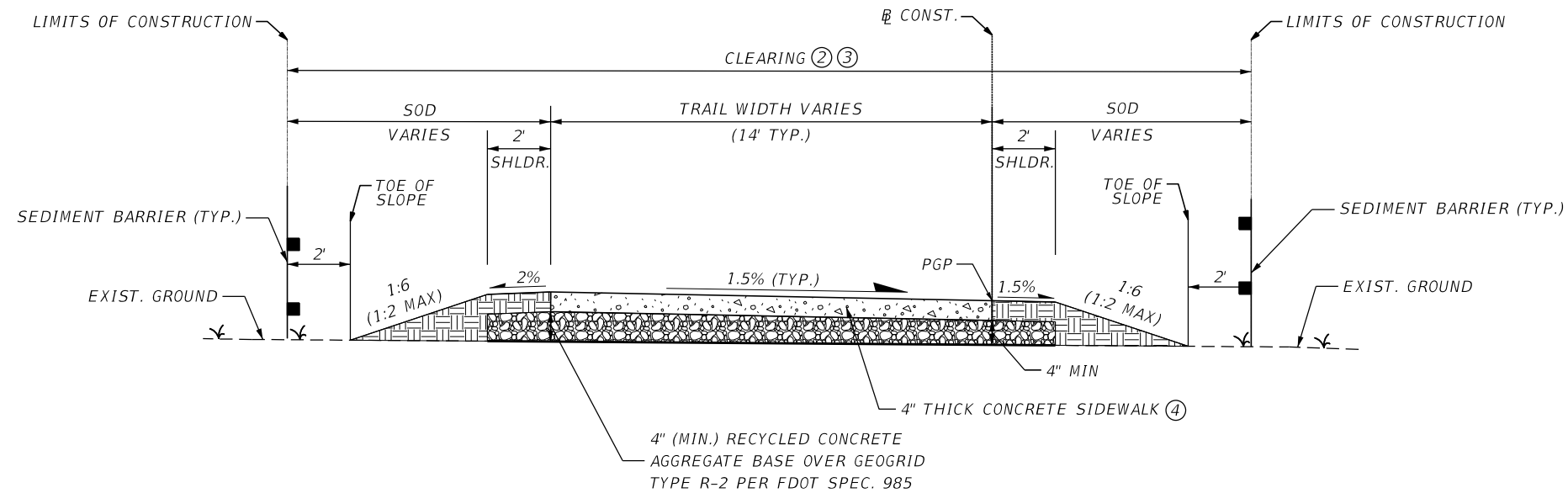
NOTES:

1. SEE PLAN & PROFILE SHEETS 23, 24 FOR SIZE, TYPE, & LOCATION OF EXFILTRATION PIPE

MAINLINE MILLING AND RESURFACING
 MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1.0" AVG)
 AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1.0") (PG-76-22)

DESIGN SPEED 18 MPH

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				4



TYPICAL SECTION (3) ⑤
CONCRETE SECTION
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL
STA. 46+57 TO STA. 57+90

NOTES:

1. THE TRAIL WITHIN THE ARCHEOLOGICAL SITE BOUNDARY WILL BE CONSTRUCTED WITH NO GRADING, NO EXCAVATION, AND/OR PLACED ON IMPORTED FILL AS NEEDED TO PREVENT GROUND DISTURBANCE.
2. NO GRUBBING WILL BE CONDUCTED BETWEEN STA. 46+57 TO STA. 57+90.
3. CLEARING WILL BE LIMITED TO AREAS WHERE SOD MUST BE REMOVED TO PUT DOWN FILL FOR THE TRAIL. SOD REMOVAL MAY BE COMPLETED BY HAND OR CHEMICAL MEANS. VEGETATION CAN BE MOWED VERY LOW, BUT NO MECHANICAL MEANS CAN BE USED TO REMOVE GRASS/FOLIAGE.
4. 6" THICK CONCRETE TRAIL PAVEMENT FROM STA. 46+57 TO STA. 47+10 (SEE PLAN & PROFILE (8)).
5. SEE TYPICAL SECTION (1) FOR ADDITIONAL NOTES AND REQUIREMENTS.

REVISIONS				KCG KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	TYPICAL SECTION	SHEET NO. 4A
DATE	DESCRIPTION	DATE	DESCRIPTION				

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PROJECT NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), NORTH AMERICAN DATUM OF 1983/1990 ADJUSTMENT, BASED ON TIES TO EXISTING OSCEOLA COUNTY CONTROL MONUMENTS. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NAVD88 ELEVATIONS CAN BE CONVERTED TO NGVD29 ELEVATIONS BY ADDING 0.945 FEET.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR DESIGN, CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM (DATED FY 2023-24) AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED FY 2023-24).
- 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.
- THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM OSCEOLA COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
- ALL DISTURBED AREAS TO BE SODDED AND SHALL MATCH EXISTING TYPE OF SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SOD SHALL BE PEGGED IF THE SLOPE EXCEEDS 1:3.
- ALL OFFSETS SHOWN ARE TO PROPOSED BASELINE OF CONSTRUCTION.
- 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 DETERMINE 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 CALL 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE CALL PHONE NUMBER IS 811.

KNOWN UTILITY OWNER	TELEPHONE NUMBER
AT&T DISTRIBUTION	(954) 249-0558
BRIGHT HOUSE NETWORKS, LLC	(407) 532-8509
CENTURYLINK	(855) 742-6062
CHARTER	(407) 532-8092
DUKE	(800) 778-9140
KISSIMMEE UTILITY AUTHORITY	(407) 933-7777
SPRINT	(800) 521-0579 x5141
ST. CLOUD UTILITIES	(407) 957-7344
OSCEOLA COUNTY TRANSPORTATION & TRANSIT	(407) 742-0552
TOHO WATER AUTHORITY	(407) 572-7472

- 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.
- ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION 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 SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS IN WRITTEN NOTIFICATION FIVE DAYS PRIOR TO STARTING CONSTRUCTION. COST INCLUDED UNDER PAY ITEM NO. 101-1, MOBILIZATION.

TRANSIT AGENCY CONTACT INFORMATION	TELEPHONE NUMBER	EMAIL
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START WORK NOTIFICATION

KEITH TILLET, ASSISTANT CHIEF SUPERVISOR	(407) 254-6207	KTILLET@GOLYNX.COM
BRUCE DETWEILER, BUS STOP COORDINATOR	(407) 254-6136	BDETWEILER@GOLYNX.COM
JENNIFER HALL, CONSTRUCTION PROJECT MANAGER	(407) 254-6046	JHALL@GOLYNX.COM

LANE CLOSURE NOTIFICATIONS

KEITH TILLET, ASSISTANT CHIEF SUPERVISOR	(407) 254-6207	KTILLET@GOLYNX.COM
REY QUINONES, CHIEF SUPERVISOR	(407) 254-6223	RQUINONES@GOLYNX.COM
BRUCE DETWEILER, BUS STOP COORDINATOR	(407) 254-6136	BDETWEILER@GOLYNX.COM

BUS SHELTER COORDINATION

JENNIFER HALL, CONSTRUCTION PROJECT MANAGER	(407) 254-6046	JHALL@GOLYNX.COM
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- 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. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
- THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE WAY FINDING FOR EMERGENCY VEHICLES. SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS TO THEIR PRE-CONST. LOCATIONS OR AS DIRECTED BY THE ENGINEER. SIGNS NOT RE-INSTALLED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY. COST OF REMOVAL AND STORAGE, RE-INSTALLATION, RELOCATION, AND/OR DISPOSAL SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- ALL PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- CONTRACTOR TO DESIGNATE AND AVOID UNDERGROUND I.T.S. INFRASTRUCTURE IN THE AREA ADJACENT TO US 192 AND NEPTUNE RD. NO IMPACTS TO I.T.S. FACILITIES ARE ANTICIPATED, HOWEVER, SHOULD I.T.S. LINES BE UNCOVERED DUE TO VARYING FIELD CONDITIONS, CONTACT OSCEOLA COUNTY TRANSPORTATION & TRANSIT AT 407-742-0552.
- ALL TREES ARE TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE INDICATED.
- ALL EXISTING DRAINAGE FEATURES TO REMAIN UNLESS OTHERWISE NOTED.

TEMPORARY TRAFFIC CONTROL NOTES:

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, STANDARD PLANS INDEX 102-600 SERIES.
- ACCESS TO ALL RESIDENCES, BUSINESSES AND THE C-31 CANAL SHALL BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- THE EXISTING SPEED LIMITS OF AFFECTED ROADS MUST BE MAINTAINED DURING ALL PHASES OF CONST.
- A LANE MAY ONLY BE CLOSED DURING ACTIVE WORK PERIODS. ONLY ONE LANE MAY BE CLOSED AT A TIME.
- PROJECT SITE INGRESS AND EGRESS WILL NOT BE ALLOWED VIA US 192.

REVISIONS				 KELLY, COLLINS & GENTRY, INC. <small>ENGINEERING / PLANNING</small> 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY	PROJECT NOTES (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL		5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER THE 61G15-23.004, F.A.C.

PLAN NOTES FOR AVOIDANCE AND MINIMIZATION METHODS

REGULATORY ORIENTATION:

PLEASE NOTE - THERE ARE TWO REGULATORY AREAS WITHIN THE PROJECT LIMITS - BOTH ASSOCIATED WITH THE EXISTING DISSTON SUGAR RUINS, BUT WITH DIFFERING LIMITS. THE ARCHAEOLOGICAL SITE BOUNDARY RUNS FROM STA. 47+50 TO STA. 57+60. THE SECOND IS A HISTORICAL DISTRICT WHICH RUNS FROM STA. 46+57 TO STA. 57+90. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE REQUIREMENTS STATED ON THIS SHEET AND WITHIN THE CONSTRUCTION DOCUMENTS.

TRAIL CONSTRUCTION NOTE

THE TRAIL WITHIN THE ARCHEOLOGICAL SITE BOUNDARY WILL BE CONSTRUCTED WITH NO GRADING, NO EXCAVATION, AND/OR PLACED ON IMPORTED FILL AS NEEDED TO PREVENT GROUND DISTURBANCE. THERE WILL BE NO GROUND-DISTURBANCE BETWEEN STA. 47+60 AND STA. 57+60.

SITE PREPARATION NOTES

BETWEEN STA. 46+57 AND STA. 57+90:

1. GRUBBING WILL NOT BE CONDUCTED.
2. CLEARING WILL BE LIMITED TO AREAS WHERE SOD MUST BE REMOVED TO PUT DOWN FILL FOR THE TRAIL. SOD REMOVAL MAY BE COMPLETED BY HAND OR CHEMICAL MEANS. VEGETATION CAN BE MOWED VERY LOW, BUT NO MECHANICAL MEANS CAN BE USED TO REMOVE GRASS/FOLIAGE.
3. TREE REMOVAL WILL BE LIMITED TO CUTTING THE TRUNK AND GRINDING THE STUMP. ROOT REMOVAL WILL NOT OCCUR.
4. THE INSTALLATION OF TREE PROTECTION BARRICADES WILL NOT RESULT IN GROUND DISTURBANCE. THE CONTRACTOR WILL USE A STAND-ALONE WOODEN BARRICADE, OR OTHER TYPE OF BARRIER OR WRAP THAT RESTS ON THE GROUND SURFACE.
5. HAY BALES, OR ANOTHER FENCING METHOD THAT AVOIDS GROUND DISTURBANCE, WILL BE USED TO SECURE THE SILT FENCE. SILT FENCING MAY BE ATTACHED TO EXISTING FENCING WHERE PRESENT TO AVOID GROUND DISTURBANCE.

STAGING AND STORING NOTE

THERE WILL BE NO STAGING OR STORING OF EQUIPMENT AND/OR MATERIALS BETWEEN STA. 46+57 AND STA. 57+90.

MACHINERY AND CONSTRUCTION CREW MOVEMENT

SITE PROTECTION IS PARAMOUNT. EXTREME CAUTION IS REQUIRED WITHIN THE HISTORIC DISTRICT BOUNDARY BETWEEN STA. 46+57 AND STA. 57+90. THE NUMBER OF VEHICLES AND AMOUNT OF MACHINERY AND EQUIPMENT WITHIN THIS AREA SHOULD BE LIMITED.

NO TRESPASSING

THERE WILL BE NO TRESPASSING ALLOWED BETWEEN STA. 46+57 AND STA. 57+90.

PERMANENT SIGNAGE

NO PERMANENT POSTS WILL BE INSTALLED WITHIN THE HISTORIC DISTRICT BOUNDARY (STA. 46+57 TO STA. 57+90) AS PART OF THIS PROJECT. THE INSTALLATION OF ANY SIGNAGE (E.G. FOR EDUCATIONAL OR TRESPASSING PREVENTION PURPOSES) PROPOSED IN THE FUTURE WOULD NEED TO BE OUTSIDE THE ARCHAEOLOGICAL SITE BOUNDARY (STA. 47+60 TO STA. 57+60) AND SHPO MUST BE CONSULTED FOR APPROVAL.

TEMPORARY POST INSTALLATION

NO SIGN POSTS WILL BE INSTALLED WITH THE ARCHAEOLOGICAL SITE BOUNDARY (STA. 47+60 AND STA. 57+60). TEMPORARY POSTS OUTSIDE THOSE LIMITS BUT WITHIN THE HISTORIC DISTRICT (STA. 46+57 AND STA. 57+90) MUST BE INSTALLED BY A DRIVING METHOD, RATHER THAN EXCAVATION.

INSTALLATION OF TYPE B CHAIN LINK FENCE

SMALL SECTIONS OF 4-FOOT FENCING REQUIRED ON EACH SIDE OF THE CROSSING OVER THE SIDE CANAL INTO THE HISTORIC DISTRICT WILL BE LIMITED TO A MAXIMUM OF 3 POSTS PER SIDE (TOTAL OF 6) BEGINNING AT THE WATER'S EDGE WITHIN THE HISTORIC DISTRICT BOUNDARY (STA. 46+57 TO STA. 57+90). THE POSTS FOR THE FENCE WILL BE INSTALLED BY DRIVING, RATHER THAN EXCAVATION, METHOD.

ARCHAEOLOGICAL MONITORING

A QUALIFIED ARCHAEOLOGICAL MONITOR MEETING THE SECRETARY OF THE INTERIOR'S STANDARDS FOR PROFESSIONAL QUALIFICATIONS (36 C.F.R. PART 61, APPENDIX A AND 48 FR 44716, SEPTEMBER 29, 1983) WILL BE PROVIDED BY FDOT, DISTRICT 5. THE FDOT, DISTRICT 5 CULTURAL RESOURCES COORDINATOR MUST BE CONTACTED BY PHONE (386-943-5383) AT LEAST TWO WEEKS PRIOR TO CLEARING BETWEEN STA. 47+60 AND STA. 57+60 AND TREE REMOVAL BETWEEN STA. 46+57 AND STA. 57+90 TO ARRANGE FOR ARCHAEOLOGICAL MONITORING. ADDITIONALLY, AN ARCHAEOLOGICAL MONITOR WILL BE NEEDED DURING INSTALLATION OF THE FILL AS PART OF TRAIL CONSTRUCTION BETWEEN STA. 47+60 AND STA. 57+60. ONCE SUFFICIENT FILL IS IN PLACE AND COMPACTED BETWEEN STA. 47+60 AND STA. 57+60, AN ARCHAEOLOGICAL MONITOR SHOULD NOT BE NEEDED DURING THE POURING OF CONCRETE AS LONG AS THERE IS NO GROUND DISTURBANCE. THE ARCHAEOLOGICAL MONITOR WILL SUBMIT A MONITORING REPORT TO THE STATE HISTORIC PRESERVATION OFFICER (SHPO) WITHIN 90 DAYS AFTER COMPLETION OF MONITORING REQUIREMENTS.

REVISIONS				 KELLY, COLLINS & GENTRY, INC. <small>ENGINEERING / PLANNING</small> 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129 <th colspan="2" style="text-align: center;">OSCEOLA COUNTY</th> <th rowspan="2" style="text-align: center; vertical-align: middle;"> PROJECT NOTES (2) </th> <th style="text-align: center;">SHEET NO.</th>	OSCEOLA COUNTY		PROJECT NOTES (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			5A

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER THE 61G15-23.004, F.A.C.

CONST. KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

Beginning chain BLCONST description

Point BLCONST01 N 1,425,074.4028 E 550,981.0009 Sta 4+16.00
 Course from BLCONST01 to BLCONST1 N 30° 58' 40.50" E Dist 70.3009

Point BLCONST1 N 1,425,134.6764 E 551,017.1854 Sta 4+86.30
 Course from BLCONST1 to PC BLCONST1 N 30° 51' 49.68" E Dist 116.1298

Curve Data

Curve BLCONST1
 P.I. Station 6+59.11 N 1,425,283.0119 E 551,105.8351
 Delta = 27° 11' 49.32" (RT)
 Degree = 24° 27' 14.11"
 Tangent = 56.6770
 Length = 111.2175
 Radius = 234.3010
 External = 6.7576
 Long Chord = 110.1763
 Mid. Ord. = 6.5681
 P.C. Station 6+02.43 N 1,425,234.3610 E 551,076.7598
 P.T. Station 7+13.65 N 1,425,312.9951 E 551,153.9317
 C.C. N 1,425,114.1648 E 551,277.8813
 Back = N 30° 51' 49.68" E
 Ahead = N 58° 03' 39.00" E
 Chord Bear = N 44° 27' 44.34" E

Curve Data

Curve BLCONST2
 P.I. Station 7+73.34 N 1,425,344.5728 E 551,204.5846
 Delta = 18° 49' 42.76" (RT)
 Degree = 15° 54' 55.78"
 Tangent = 59.6898
 Length = 118.3032
 Radius = 360.0000
 External = 4.9149
 Long Chord = 117.7716
 Mid. Ord. = 4.8487
 P.C. Station 7+13.65 N 1,425,312.9951 E 551,153.9317
 P.T. Station 8+31.95 N 1,425,358.1132 E 551,262.7183
 C.C. N 1,425,007.4981 E 551,344.3828
 Back = N 58° 03' 36.01" E
 Ahead = N 76° 53' 18.78" E
 Chord Bear = N 67° 28' 27.40" E

Curve Data

Curve BLCONST3
 P.I. Station 9+22.10 N 1,425,378.5641 E 551,350.5215
 Delta = 27° 35' 40.60" (LT)
 Degree = 15° 36' 25.55"
 Tangent = 90.1535
 Length = 176.8081
 Radius = 367.1136
 External = 10.9076
 Long Chord = 175.1042
 Mid. Ord. = 10.5929
 P.C. Station 8+31.95 N 1,425,358.1132 E 551,262.7183
 P.T. Station 10+08.76 N 1,425,437.3603 E 551,418.8637
 C.C. N 1,425,715.6564 E 551,179.4400
 Back = N 76° 53' 18.78" E
 Ahead = N 49° 17' 38.17" E
 Chord Bear = N 63° 05' 28.48" E

Curve Data

Curve BLCONST4
 P.I. Station 13+96.99 N 1,425,690.5534 E 551,713.1649
 Delta = 7° 08' 28.51" (RT)
 Degree = 1° 41' 06.61"
 Tangent = 212.1600
 Length = 423.7705
 Radius = 3,400.0000
 External = 6.6130
 Long Chord = 423.4962
 Mid. Ord. = 6.6001
 P.C. Station 11+84.83 N 1,425,552.1872 E 551,552.3337
 P.T. Station 16+08.60 N 1,425,807.8524 E 551,889.9495
 C.C. N 1,422,974.7651 E 553,769.7411
 Back = N 49° 17' 38.17" E
 Ahead = N 56° 26' 06.68" E
 Chord Bear = N 52° 51' 52.43" E

Curve Data

Curve BLCONST5
 P.I. Station 17+66.24 N 1,425,895.0126 E 552,021.3111
 Delta = 5° 09' 28.68" (LT)
 Degree = 1° 38' 13.28"
 Tangent = 157.6476
 Length = 315.0823
 Radius = 3,500.0000
 External = 3.5486
 Long Chord = 314.9759
 Mid. Ord. = 3.5450
 P.C. Station 16+08.60 N 1,425,807.8524 E 551,889.9495
 P.T. Station 19+23.68 N 1,425,993.6295 E 552,144.3049
 C.C. N 1,428,724.2658 E 549,954.8699
 Back = N 56° 26' 06.68" E
 Ahead = N 51° 16' 38.00" E
 Chord Bear = N 53° 51' 22.34" E

Course from PT BLCONST5 to PC BLCONST6 N 51° 16' 38.00" E Dist 195.2909

Curve Data

Curve BLCONST6
 P.I. Station 22+04.33 N 1,426,169.1896 E 552,363.2612
 Delta = 62° 44' 26.35" (LT)
 Degree = 40° 55' 32.00"
 Tangent = 85.3569
 Length = 153.3043
 Radius = 140.0000
 External = 23.9689
 Long Chord = 145.7589
 Mid. Ord. = 20.4651
 P.C. Station 21+18.97 N 1,426,115.7943 E 552,296.6673
 P.T. Station 22+72.27 N 1,426,252.8437 E 552,346.2972
 C.C. N 1,426,225.0198 E 552,209.0899
 Back = N 51° 16' 38.00" E
 Ahead = N 11° 27' 48.35" W
 Chord Bear = N 19° 54' 24.82" E

Curve Data

Curve BLCONST7
 P.I. Station 23+25.01 N 1,426,304.5285 E 552,335.8161
 Delta = 63° 02' 05.23" (RT)
 Degree = 66° 37' 22.80"
 Tangent = 52.7368
 Length = 94.6142
 Radius = 86.0000
 External = 14.8820
 Long Chord = 89.9143
 Mid. Ord. = 12.6866
 P.C. Station 22+72.27 N 1,426,252.8437 E 552,346.2972
 P.T. Station 23+66.89 N 1,426,337.3065 E 552,377.1292
 C.C. N 1,426,269.9356 E 552,430.5816
 Back = N 11° 27' 48.35" W
 Ahead = N 51° 34' 16.88" E
 Chord Bear = N 20° 03' 14.26" E

Course from PT BLCONST7 to PC BLCONST8 N 51° 34' 16.88" E Dist 139.8571

Curve Data

Curve BLCONST8
 P.I. Station 25+60.99 N 1,426,457.9479 E 552,529.1846
 Delta = 64° 28' 57.90" (RT)
 Degree = 66° 37' 22.80"
 Tangent = 54.2439
 Length = 96.7875
 Radius = 86.0000
 External = 15.6779
 Long Chord = 91.7598
 Mid. Ord. = 13.2605
 P.C. Station 25+06.75 N 1,426,424.2332 E 552,486.6909
 P.T. Station 26+03.53 N 1,426,434.1230 E 552,577.9162
 C.C. N 1,426,356.8623 E 552,540.1433
 Back = N 51° 34' 16.88" E
 Ahead = S 63° 56' 45.23" E
 Chord Bear = N 83° 48' 45.83" E

Equation: Sta 26+03.53 (BK) = Sta 25+84.43 (AH)

End Region 1

 Begin Region 2

Curve Data

Curve BLCONST9
 P.I. Station 27+18.87 N 1,426,375.0736 E 552,698.6957
 Delta = 112° 24' 01.50" (LT)
 Degree = 63° 39' 43.12"
 Tangent = 134.4415
 Length = 176.5582
 Radius = 90.0000
 External = 71.7854
 Long Chord = 149.5776
 Mid. Ord. = 39.9337
 P.C. Station 25+84.43 N 1,426,434.1230 E 552,577.9162
 P.T. Station 27+60.99 N 1,426,509.2418 E 552,707.2630
 C.C. N 1,426,514.9771 E 552,617.4460
 Back = S 63° 56' 45.23" E
 Ahead = N 3° 39' 13.27" E
 Chord Bear = N 59° 51' 14.02" E

Curve Data

Curve BLCONST10
 P.I. Station 28+05.30 N 1,426,553.4632 E 552,710.0868
 Delta = 47° 47' 51.66" (RT)
 Degree = 57° 17' 44.81"
 Tangent = 44.3115
 Length = 83.4227
 Radius = 100.0000
 External = 9.3778
 Long Chord = 81.0246
 Mid. Ord. = 8.5738
 P.C. Station 27+60.99 N 1,426,509.2418 E 552,707.2630
 P.T. Station 28+44.41 N 1,426,581.0772 E 552,744.7419
 C.C. N 1,426,502.8692 E 552,807.0598
 Back = N 3° 39' 13.27" E
 Ahead = N 51° 27' 04.93" E
 Chord Bear = N 27° 33' 09.10" E

Course from PT BLCONST10 to PC BLCONST11 N 51° 27' 04.93" E Dist 252.5477

Curve Data

Curve BLCONST11
 P.I. Station 31+40.93 N 1,426,765.8638 E 552,976.6462
 Delta = 24° 48' 04.07" (RT)
 Degree = 28° 38' 52.40"
 Tangent = 43.9749
 Length = 86.5723
 Radius = 200.0000
 External = 4.7774
 Long Chord = 85.8980
 Mid. Ord. = 4.6660
 P.C. Station 30+96.96 N 1,426,738.4595 E 552,942.2543
 P.T. Station 31+83.53 N 1,426,776.3141 E 553,019.3613
 C.C. N 1,426,582.0436 E 553,066.8900
 Back = N 51° 27' 04.93" E
 Ahead = N 76° 15' 09.00" E
 Chord Bear = N 63° 51' 06.96" E

Course from PT BLCONST11 to PC BLCONST12 N 76° 15' 09.00" E Dist 42.1588

Curve Data

Curve BLCONST12
 P.I. Station 32+72.28 N 1,426,797.4056 E 553,105.5715
 Delta = 29° 01' 31.69" (LT)
 Degree = 31° 49' 51.56"
 Tangent = 46.5938
 Length = 91.1862
 Radius = 180.0000
 External = 5.9327
 Long Chord = 90.2143
 Mid. Ord. = 5.7434
 P.C. Station 32+25.69 N 1,426,786.3329 E 553,060.3124
 P.T. Station 33+16.88 N 1,426,829.0473 E 553,139.7737
 C.C. N 1,426,961.1763 E 553,017.5366
 Back = N 76° 15' 09.00" E
 Ahead = N 47° 13' 37.31" E
 Chord Bear = N 61° 44' 23.15" E

Course from PT BLCONST12 to PC BLCONST13 N 47° 13' 37.31" E Dist 240.5707

REVISIONS				KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING <small>1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129</small>	OSCEOLA COUNTY KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	HORIZONTAL ALIGNMENT DATA	SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION				

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Curve Data

Curve BLCONST13
P.I. Station 36+27.79 N 1,427,040.1837 E 553,367.9962
Delta = 23° 22' 35.30" (RT)
Degree = 16° 51' 06.12"
Tangent = 70.3378
Length = 138.7188
Radius = 340.0000
External = 7.1994
Long Chord = 137.7586
Mid. Ord. = 7.0501
P.C. Station 35+57.45 N 1,426,992.4176 E 553,316.3647
P.T. Station 36+96.17 N 1,427,063.5431 E 553,434.3418
C.C. = N 1,426,742.8405 E 553,547.2570
Back = N 47° 13' 37.31" E
Ahead = N 70° 36' 12.61" E
Chord Bear = N 58° 54' 54.96" E

Curve Data

Curve BLCONST17
P.I. Station 43+35.11 N 1,427,486.5111 E 553,898.4322
Delta = 28° 21' 38.99" (RT)
Degree = 38° 12' 16.52"
Tangent = 37.8939
Length = 74.2341
Radius = 149.9709
External = 4.7134
Long Chord = 73.4786
Mid. Ord. = 4.5697
P.C. Station 42+97.22 N 1,427,457.5209 E 553,874.0290
P.T. Station 43+71.45 N 1,427,500.4296 E 553,933.6774
C.C. = N 1,427,360.9414 E 553,988.7620
Back = N 40° 05' 23.49" E
Ahead = N 68° 27' 02.48" E
Chord Bear = N 54° 16' 12.98" E

Curve Data

Curve BLCONST21
P.I. Station 47+61.27 N 1,427,684.1220 E 554,252.9315
Delta = 53° 16' 27.95" (LT)
Degree = 77° 40' 37.60"
Tangent = 36.9969
Length = 68.5845
Radius = 73.7615
External = 8.7584
Long Chord = 66.1404
Mid. Ord. = 7.8288
P.C. Station 47+24.28 N 1,427,692.5664 E 554,216.9112
P.T. Station 47+92.86 N 1,427,707.9429 E 554,281.2393
C.C. = N 1,427,764.3808 E 554,233.7470
Back = S 76° 48' 21.94" E
Ahead = N 49° 55' 10.11" E
Chord Bear = N 76° 33' 24.08" E

Curve Data

Curve BLCONST14
P.I. Station 37+62.12 N 1,427,085.4450 E 553,496.5476
Delta = 42° 24' 21.50" (LT)
Degree = 33° 42' 12.24"
Tangent = 65.9488
Length = 125.8210
Radius = 170.0000
External = 12.3438
Long Chord = 122.9689
Mid. Ord. = 11.5082
P.C. Station 36+96.17 N 1,427,063.5431 E 553,434.3418
P.T. Station 38+21.99 N 1,427,143.5673 E 553,527.7093
C.C. = N 1,427,223.8944 E 553,377.8842
Back = N 70° 36' 12.61" E
Ahead = N 28° 11' 51.11" E
Chord Bear = N 49° 24' 01.86" E

Curve Data

Curve BLCONST18
P.I. Station 44+69.52 N 1,427,536.4492 E 554,024.8883
Delta = 30° 28' 24.85" (LT)
Degree = 15° 54' 51.49"
Tangent = 98.0654
Length = 191.4854
Radius = 360.0270
External = 13.1168
Long Chord = 189.2364
Mid. Ord. = 12.6557
P.C. Station 43+71.45 N 1,427,500.4296 E 553,933.6774
P.T. Station 45+62.94 N 1,427,613.7499 E 554,085.2325
C.C. = N 1,427,835.2913 E 553,801.4389
Back = N 68° 27' 02.48" E
Ahead = N 37° 58' 37.63" E
Chord Bear = N 53° 12' 50.05" E

Course from PT BLCONST21 to PC BLCONST22 N 49° 55' 10.11" E Dist 227.1413

Curve Data

Curve BLCONST22
P.I. Station 50+81.55 N 1,427,893.8226 E 554,502.1309
Delta = 42° 05' 02.55" (LT)
Degree = 35° 48' 35.50"
Tangent = 61.5529
Length = 117.5208
Radius = 160.0000
External = 11.4315
Long Chord = 114.8968
Mid. Ord. = 10.6692
P.C. Station 50+20.00 N 1,427,854.1909 E 554,455.0343
P.T. Station 51+37.52 N 1,427,954.8009 E 554,510.5223
C.C. = N 1,427,976.6134 E 554,352.0161
Back = N 49° 55' 10.11" E
Ahead = N 7° 50' 07.56" E
Chord Bear = N 28° 52' 38.83" E

Curve Data

Curve BLCONST15
P.I. Station 40+22.80 N 1,427,320.5444 E 553,622.5938
Delta = 37° 00' 31.61" (RT)
Degree = 9° 32' 57.47"
Tangent = 200.8083
Length = 387.5550
Radius = 600.0000
External = 32.7116
Long Chord = 380.8528
Mid. Ord. = 31.0204
P.C. Station 38+21.99 N 1,427,143.5673 E 553,527.7093
P.T. Station 42+09.54 N 1,427,404.7538 E 553,804.8923
C.C. = N 1,426,860.0596 E 554,056.5036
Back = N 28° 11' 51.11" E
Ahead = N 65° 12' 22.72" E
Chord Bear = N 46° 42' 06.91" E

Curve Data

Curve BLCONST19
P.I. Station 45+89.81 N 1,427,634.9358 E 554,101.7710
Delta = 12° 16' 32.21" (RT)
Degree = 22° 55' 28.47"
Tangent = 26.8768
Length = 53.5478
Radius = 249.9317
External = 1.4410
Long Chord = 53.4455
Mid. Ord. = 1.4327
P.C. Station 45+62.94 N 1,427,613.7499 E 554,085.2325
P.T. Station 46+16.48 N 1,427,652.1208 E 554,122.4359
C.C. = N 1,427,459.9553 E 554,282.2428
Back = N 37° 58' 37.63" E
Ahead = N 50° 15' 09.84" E
Chord Bear = N 44° 06' 53.74" E

Curve Data

Curve BLCONST23
P.I. Station 52+06.10 N 1,428,022.7390 E 554,519.8715
Delta = 41° 42' 46.08" (RT)
Degree = 31° 49' 51.56"
Tangent = 68.5784
Length = 131.0446
Radius = 180.0000
External = 12.6214
Long Chord = 128.1697
Mid. Ord. = 11.7944
P.C. Station 51+37.52 N 1,427,954.8009 E 554,510.5223
P.T. Station 52+68.57 N 1,428,067.2332 E 554,572.0564
C.C. = N 1,427,930.2618 E 554,688.8418
Back = N 7° 50' 07.56" E
Ahead = N 49° 32' 53.64" E
Chord Bear = N 28° 41' 30.60" E

Curve Data

Curve BLCONST16
P.I. Station 42+54.09 N 1,427,423.4369 E 553,845.3379
Delta = 25° 06' 59.23" (LT)
Degree = 28° 38' 52.40"
Tangent = 44.5522
Length = 87.6730
Radius = 200.0000
External = 4.9022
Long Chord = 86.9727
Mid. Ord. = 4.7849
P.C. Station 42+09.54 N 1,427,404.7538 E 553,804.8923
P.T. Station 42+97.22 N 1,427,457.5209 E 553,874.0290
C.C. = N 1,427,586.3185 E 553,721.0219
Back = N 65° 12' 22.72" E
Ahead = N 40° 05' 23.49" E
Chord Bear = N 52° 38' 53.10" E

Course from PT BLCONST19 to PC BLCONST20 N 50° 15' 09.84" E Dist 39.6375

Curve Data

Curve BLCONST20
P.I. Station 46+92.85 N 1,427,700.9497 E 554,181.1518
Delta = 52° 56' 28.21" (RT)
Degree = 77° 40' 37.60"
Tangent = 36.7288
Length = 68.1554
Radius = 73.7615
External = 8.6385
Long Chord = 65.7566
Mid. Ord. = 7.7329
P.C. Station 46+56.12 N 1,427,677.4652 E 554,152.9121
P.T. Station 47+24.28 N 1,427,692.5664 E 554,216.9112
C.C. = N 1,427,620.7520 E 554,200.0753
Back = N 50° 15' 09.84" E
Ahead = S 76° 48' 21.94" E
Chord Bear = N 76° 43' 23.95" E

Course from PT BLCONST23 to PC BLCONST24 N 49° 32' 53.64" E Dist 340.4608

Curve Data

Curve BLCONST24
P.I. Station 56+98.92 N 1,428,346.4499 E 554,899.5349
Delta = 17° 02' 29.35" (RT)
Degree = 9° 32' 57.47"
Tangent = 89.8927
Length = 178.4580
Radius = 600.0000
External = 6.6965
Long Chord = 177.8009
Mid. Ord. = 6.6226
P.C. Station 56+09.03 N 1,428,288.1268 E 554,831.1309
P.T. Station 57+87.49 N 1,428,382.1654 E 554,982.0280
C.C. = N 1,427,831.5554 E 555,220.4155
Back = N 49° 32' 53.64" E
Ahead = N 66° 35' 22.98" E
Chord Bear = N 58° 04' 08.31" E

Course from PT BLCONST24 to PC BLCONST25 N 66° 35' 22.98" E Dist 98.3326

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	HORIZONTAL ALIGNMENT DATA	SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION				

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Curve Data

Curve BLCONST25
P.I. Station = 59+72.36 N 1,428,455.6190 E 555,151.6857
Delta = 34° 21' 03.97" (LT)
Degree = 20° 27' 46.00"
Tangent = 86.5436
Length = 167.8712
Radius = 280.0000
External = 13.0696
Long Chord = 165.3682
Mid. Ord. = 12.4868
P.C. Station = 58+85.82 N 1,428,421.2342 E 555,072.2662
P.T. Station = 60+53.69 N 1,428,528.8205 E 555,197.8521
C.C. = N 1,428,678.1855 E 554,961.0186
Back = N 66° 35' 22.98" E
Ahead = N 32° 14' 19.02" E
Chord Bear = N 49° 24' 51.00" E

Course from PT BLCONST25 to PC BLCONST26 N 32° 14' 19.02" E Dist 75.7697

Curve Data

Curve BLCONST26
P.I. Station = 61+91.26 N 1,428,645.1808 E 555,271.2377
Delta = 34° 20' 30.49" (RT)
Degree = 28° 38' 52.40"
Tangent = 61.7991
Length = 119.8755
Radius = 200.0000
External = 9.3302
Long Chord = 118.0891
Mid. Ord. = 8.9143
P.C. Station = 61+29.46 N 1,428,592.9090 E 555,238.2712
P.T. Station = 62+49.33 N 1,428,669.7435 E 555,327.9456
C.C. = N 1,428,486.2197 E 555,407.4379
Back = N 32° 14' 19.02" E
Ahead = N 66° 34' 49.51" E
Chord Bear = N 49° 24' 34.27" E

Curve Data

Curve BLCONST27
P.I. Station = 62+83.27 N 1,428,683.2302 E 555,359.0822
Delta = 15° 27' 31.64" (LT)
Degree = 22° 55' 05.92"
Tangent = 33.9319
Length = 67.4517
Radius = 250.0000
External = 2.2922
Long Chord = 67.2473
Mid. Ord. = 2.2714
P.C. Station = 62+49.33 N 1,428,669.7435 E 555,327.9456
P.T. Station = 63+16.79 N 1,428,704.5282 E 555,385.4976
C.C. = N 1,428,899.1482 E 555,228.5803
Back = N 66° 34' 49.51" E
Ahead = N 51° 07' 17.87" E
Chord Bear = N 58° 51' 03.69" E

Course from PT BLCONST27 to PC BLCONST28 N 51° 07' 17.87" E Dist 243.1913

Curve Data

Curve BLCONST28
P.I. Station = 66+13.69 N 1,428,890.8834 E 555,616.6286
Delta = 39° 24' 03.06" (RT)
Degree = 38° 11' 49.87"
Tangent = 53.7090
Length = 103.1512
Radius = 150.0000
External = 9.3256
Long Chord = 101.1307
Mid. Ord. = 8.7798
P.C. Station = 65+59.98 N 1,428,857.1719 E 555,574.8172
P.T. Station = 66+63.13 N 1,428,890.3936 E 555,670.3354
C.C. = N 1,428,740.3998 E 555,668.9675
Back = N 51° 07' 17.87" E
Ahead = S 89° 28' 39.07" E
Chord Bear = N 70° 49' 19.40" E

Course from PT BLCONST28 to BLCONST2 S 89° 28' 39.07" E Dist 863.6812

Point BLCONST2 N 1,428,882.5178 E 556,533.9806 Sta 75+26.81

Course from BLCONST2 to PC BLCONST29 N 0° 31' 20.93" E Dist 143.9884

Curve Data

Curve BLCONST29
P.I. Station = 77+83.11 N 1,429,138.8053 E 556,536.3178
Delta = 28° 08' 49.94" (RT)
Degree = 12° 47' 21.55"
Tangent = 112.3097
Length = 220.0837
Radius = 447.9971
External = 13.8631
Long Chord = 217.8772
Mid. Ord. = 13.4470
P.C. Station = 76+70.80 N 1,429,026.5002 E 556,535.2937
P.T. Station = 78+90.88 N 1,429,237.3458 E 556,590.1994
C.C. = N 1,429,022.4150 E 556,983.2721
Back = N 0° 31' 20.93" E
Ahead = N 28° 40' 10.88" E
Chord Bear = N 14° 35' 45.90" E

Course from PT BLCONST29 to PC BLCONST30 N 40° 47' 37.88" E Dist 42.7789

Curve Data

Curve BLCONST30
P.I. Station = 79+89.37 N 1,429,315.8572 E 556,649.3915
Delta = 14° 23' 59.07" (RT)
Degree = 12° 59' 32.06"
Tangent = 55.7102
Length = 110.8334
Radius = 441.0000
External = 3.5049
Long Chord = 110.5419
Mid. Ord. = 3.4773
P.C. Station = 79+33.66 N 1,429,269.7322 E 556,618.1486
P.T. Station = 80+44.49 N 1,429,352.7635 E 556,691.1234
C.C. = N 1,429,022.4150 E 556,983.2721
Back = N 34° 06' 42.62" E
Ahead = N 48° 30' 41.69" E
Chord Bear = N 41° 18' 42.16" E

Course from PT BLCONST30 to BLCONST3 N 48° 30' 41.69" E Dist 135.6818

Point BLCONST3 N 1,429,442.6485 E 556,792.7613 Sta 81+80.18

=====
Ending chain BLCONST description

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	HORIZONTAL ALIGNMENT DATA	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION				

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HORIZONTAL CONTROL MONUMENTS

POINT NO.	DESCRIPTION	STA.	OFFSET	NORTHING	EASTING	ELEV.
120	FDOT BRASS DISK	4+82.22	116.27' (LT)	1425155.348	550898.865	62.75'
117	1/2" I.R. & CAP	7+74.69	63.74' (RT)	1425283.962	551243.246	62.08'
115	1/2" I.R. & CAP	15+25.99	101.41' (LT)	1425855.692	551779.731	61.33'
114	1/2" I.R. & CAP	19+23.70	125.08' (LT)	1426095.098	552072.658	61.18'
113	1/2" I.R. & CAP	22+75.68	40.46' (LT)	1426277.72	552304.364	61.12'
112	1/2" I.R. & CAP	25+51.56	21.29' (LT)	1426463.867	552547.916	59.73'
111	1/2" I.R. & CAP	30+79.01	38.41' (LT)	1426745.673	552889.888	60.22'
110	1/2" I.R. & CAP	35+41.20	74.40' (LT)	1427035.995	553253.912	59.52'
109	1/2" I.R. & CAP	40+10.95	34.60' (LT)	1427318.411	553617.61	58.72'
108	1/2" I.R. & CAP	45+66.12	79.75' (LT)	1427666.124	554024.973	61.83'
107	1/2" I.R. & CAP	51+52.55	94.31' (LT)	1427990.185	554421.158	63.41'
106	1/2" I.R. & CAP	56+02.23	20.59' (LT)	1428299.381	554812.599	61.59'
105	1/2" I.R. & CAP	60+90.14	55.22' (LT)	1428589.104	555170.592	59.97'
104	1/2" I.R. & CAP	65+74.36	29.87' (LT)	1428890.593	555569.992	61.47'
103	1/2" I.R. & CAP	69+85.86	5.41' (RT)	1428882.043	555993.007	60.68'
102	1/2" I.R. & CAP	74+83.41	17.94' (RT)	1428865.583	556486.581	60.76'
100	NAIL AND DISK	78+93.16	115.43' (LT)	1429314.482	556504.303	61.91'
91	NAIL IN WPP	81+48.13	303.18' (LT)	1429657.99	556578.6	65.10'
92	FOUND BRASS DISK			1429726.11	556589.1	67.10' (ACTUAL), FLORIDA SRD 67.08' (STAMPED)
90	NAIL IN WPP			1429327.92	556908.56	63.62'
N/A	FOUND BRASS DISK			1429829.1	556514.31	67.14' (ACTUAL), FLORIDA SRD 67.12' (STAMPED)

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

**KELLY,
COLLINS &
GENTRY, INC.**
ENGINEERING / PLANNING

1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

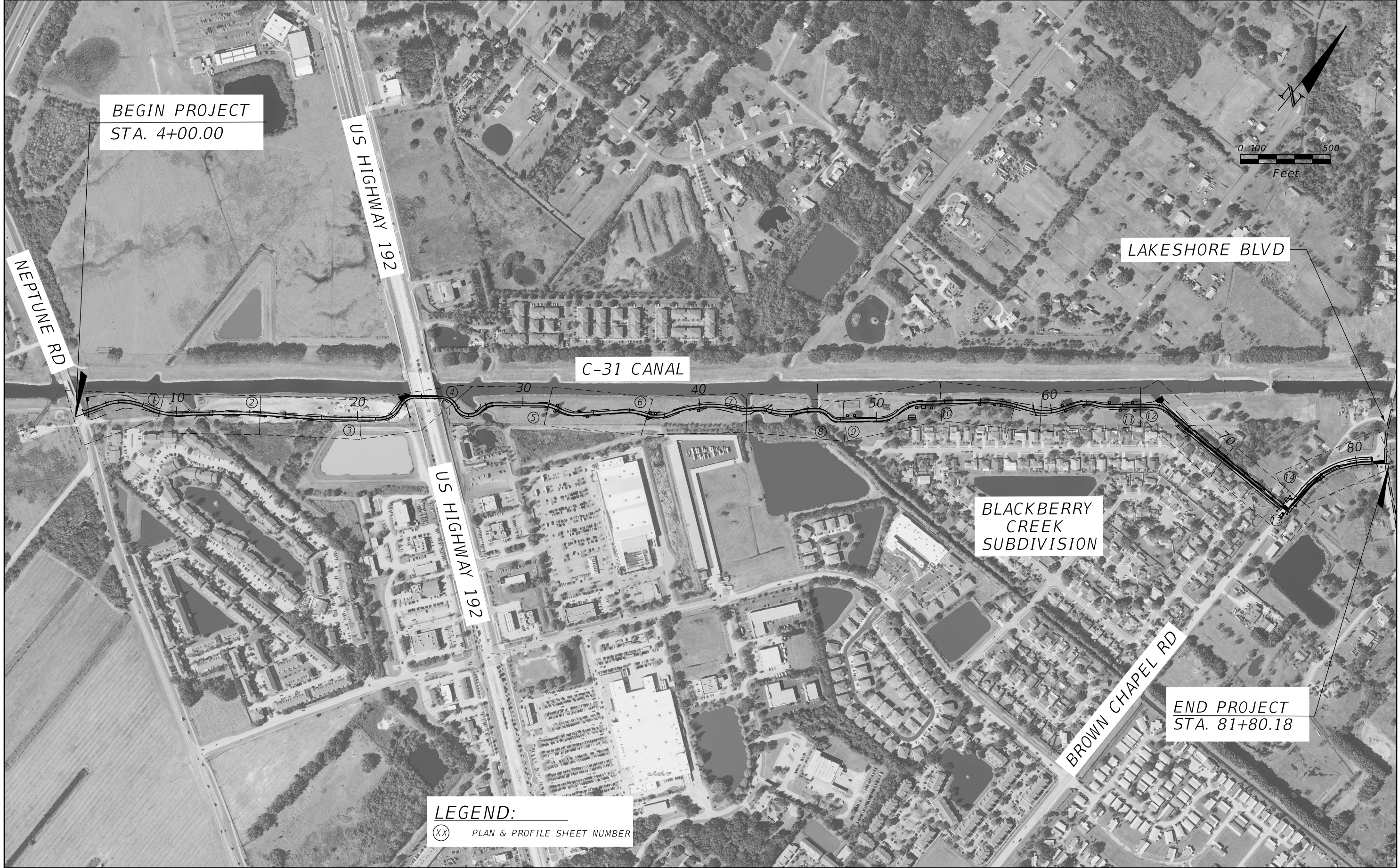
OSCEOLA COUNTY

KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PROJECT CONTROL DATA

SHEET NO.
9

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BEGIN PROJECT
STA. 4+00.00



NEPTUNE RD

US HIGHWAY 192

LAKESHORE BLVD

C-31 CANAL

US HIGHWAY 192

BLACKBERRY
CREEK
SUBDIVISION

BROWN CHAPEL RD

END PROJECT
STA. 81+80.18

LEGEND:
ⓧ PLAN & PROFILE SHEET NUMBER

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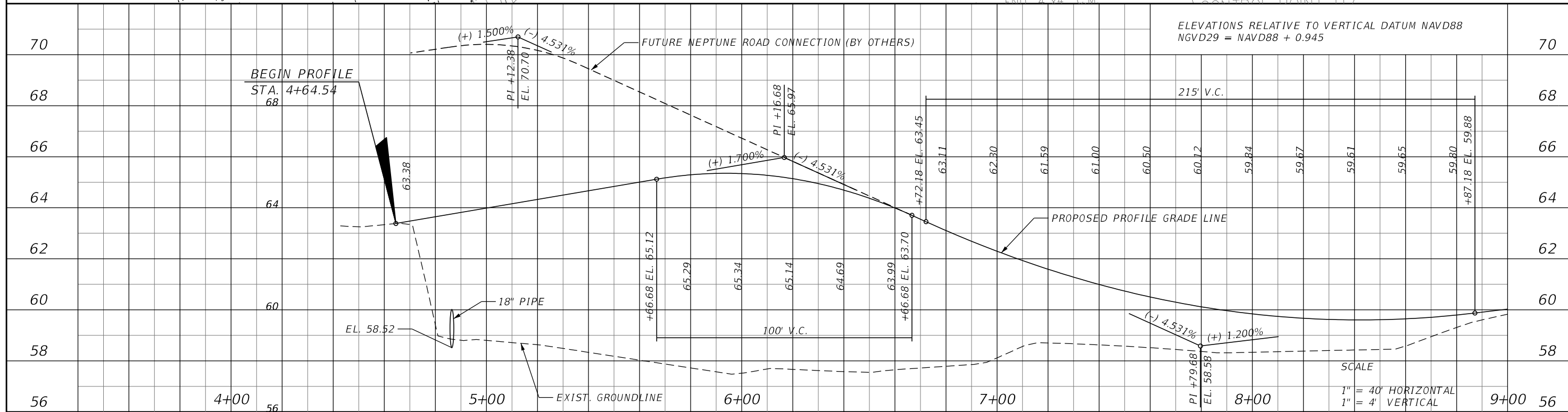
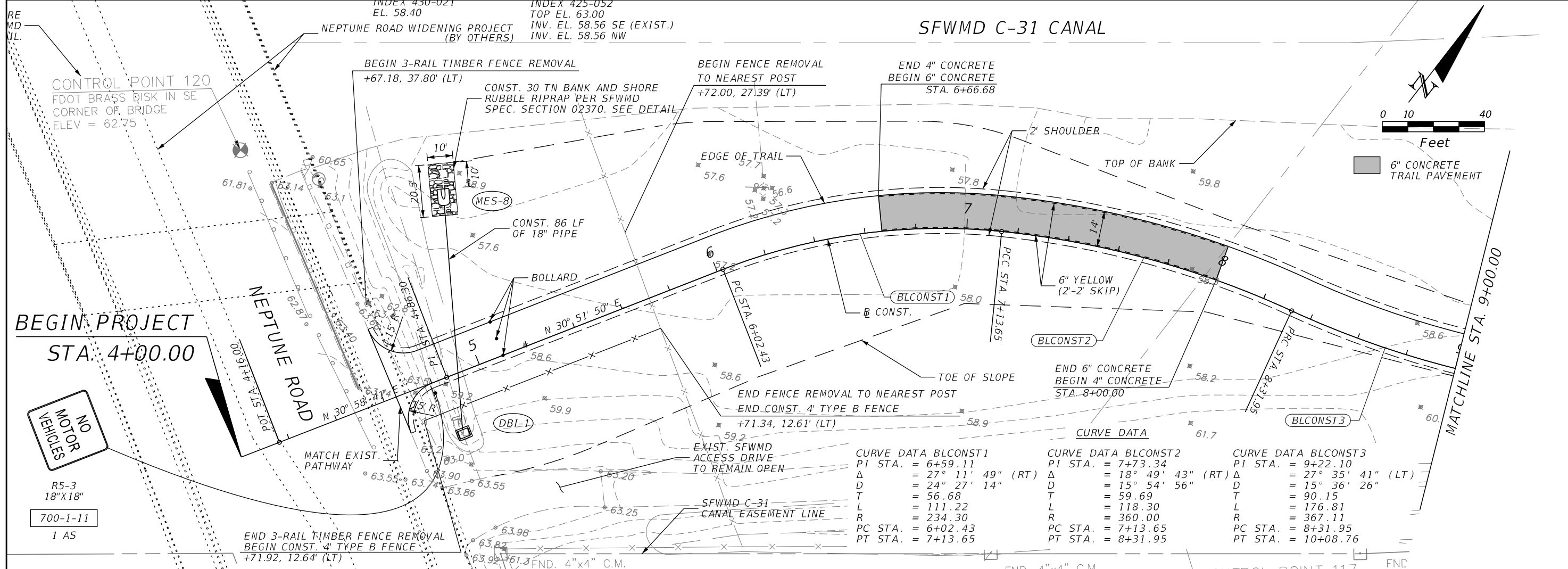
REVISIONS	
DATE	DESCRIPTION

KCG KELLY, COLLINS & GENTRY, INC.
ENGINEERING / PLANNING
1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PROJECT LAYOUT

SHEET NO.
10



REVISIONS		DESCRIPTION		DATE	DESCRIPTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			

KCG

KELLY, COLLINS & GENTRY, INC.

ENGINEERING / PLANNING

1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804

407-898-7858 CERT. OF AUTHORIZATION NO. 7350

STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY

KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

PLAN & PROFILE (1)

SHEET NO.

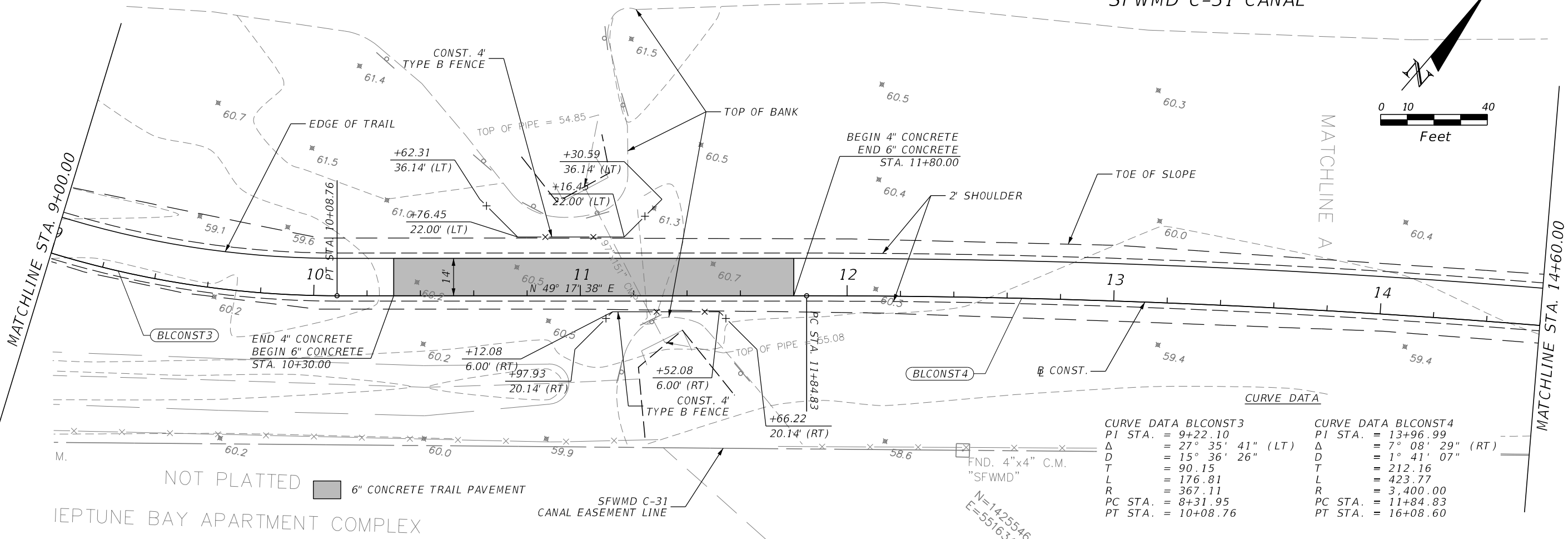
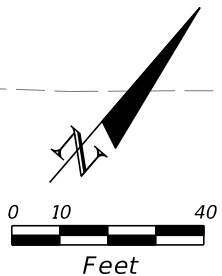
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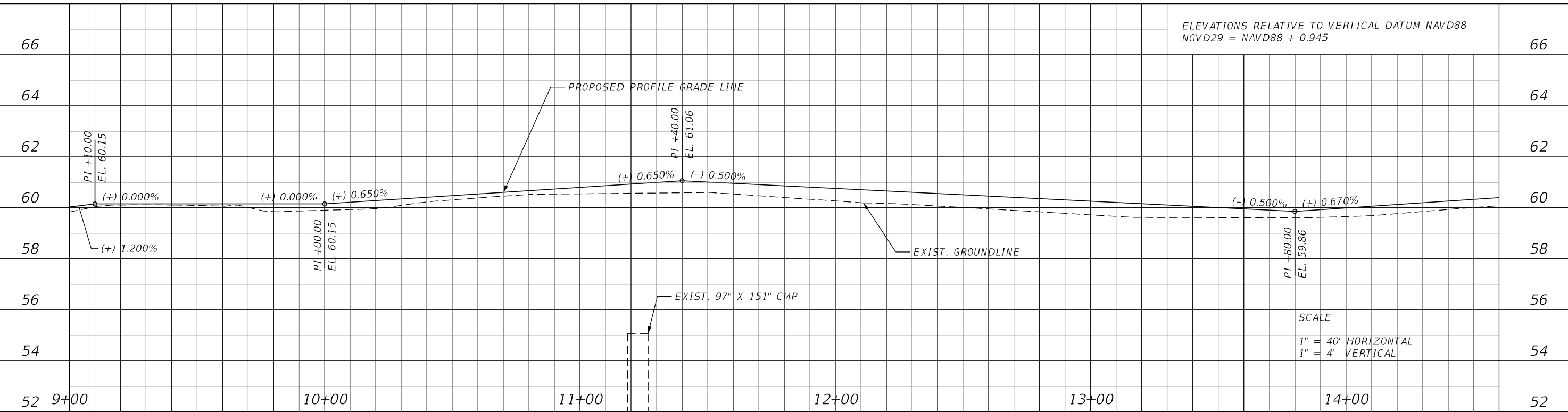
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SFWMD C-31 CANAL



CURVE DATA BLCONST3		CURVE DATA BLCONST4	
PI STA.	= 9+22.10	PI STA.	= 13+96.99
Δ	= 27° 35' 41" (LT)	Δ	= 7° 08' 29" (RT)
D	= 15° 36' 26"	D	= 1° 41' 07"
T	= 90.15	T	= 212.16
L	= 176.81	L	= 423.77
R	= 367.11	R	= 3,400.00
PC STA.	= 8+31.95	PC STA.	= 11+84.83
PT STA.	= 10+08.76	PT STA.	= 16+08.60



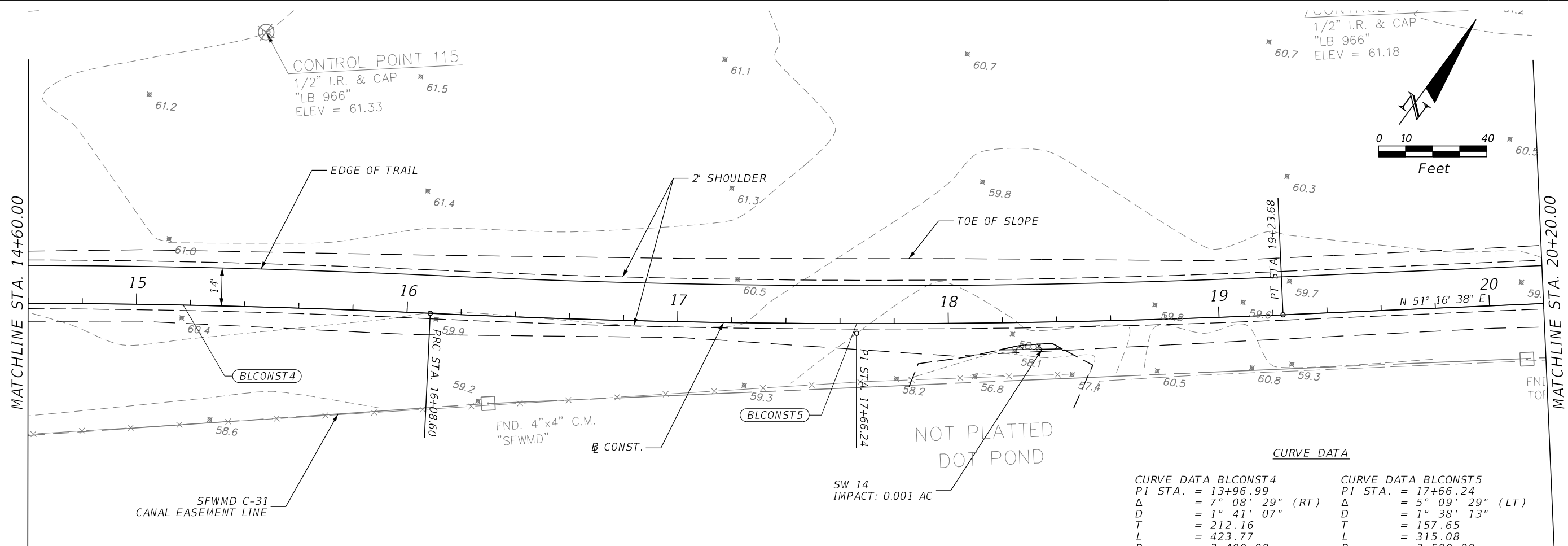
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCG KELLY, COLLINS & GENTRY, INC.
ENGINEERING / PLANNING
1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

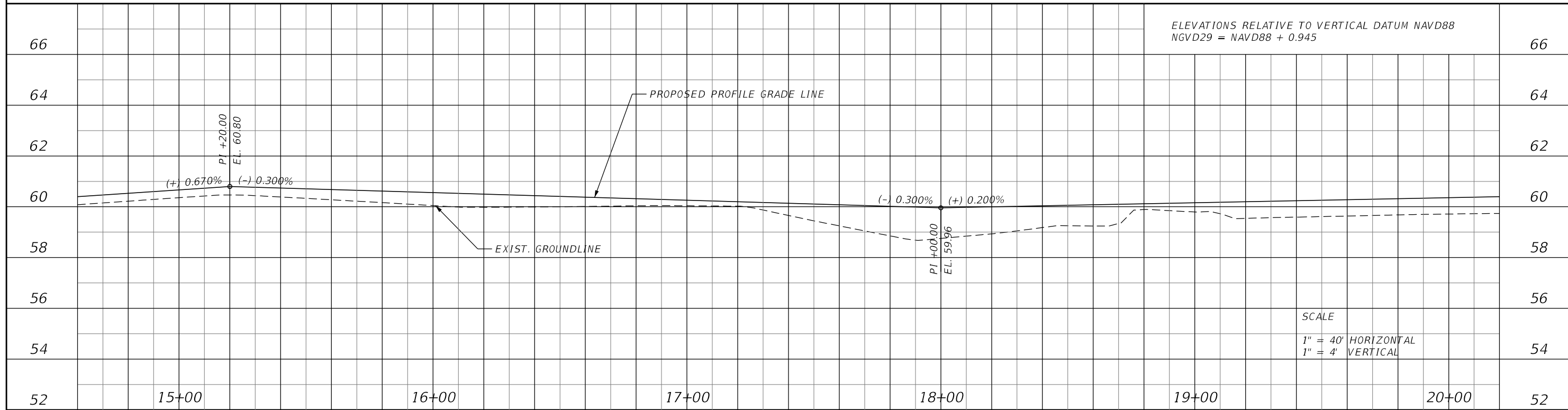
SHEET NO. 12
PLAN & PROFILE (2)

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CURVE DATA

CURVE DATA BLCONST4		CURVE DATA BLCONST5	
PI STA.	= 13+96.99	PI STA.	= 17+66.24
Δ	= 7° 08' 29" (RT)	Δ	= 5° 09' 29" (LT)
D	= 1° 41' 07"	D	= 1° 38' 13"
T	= 212.16	T	= 157.65
L	= 423.77	L	= 315.08
R	= 3,400.00	R	= 3,500.00
PC STA.	= 11+84.83	PC STA.	= 16+08.60
PT STA.	= 16+08.60	PT STA.	= 19+23.68



ELEVATIONS RELATIVE TO VERTICAL DATUM NAVD88
 NGVD29 = NAVD88 + 0.945

SCALE
 1" = 40' HORIZONTAL
 1" = 4' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCG KELLY, COLLINS & GENTRY, INC.
 ENGINEERING / PLANNING
 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE (3)
 SHEET NO. 13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SFWMD C-31 CANAL

MES-1A
STA. 23+13.86 (25.71' LT)
CROSS DRAIN MES (36") 1:4
INDEX 430-021
ELEV. 49.50

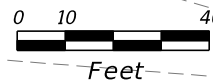
SW 13
IMPACT: 0.047 AC
CONST. 194 TN BANK AND SHORE
RUBBLE RIPRAP PER SFWMD
SPEC. SECTION 02370. SEE DETAIL

105 LF OF 36" PIPE
PER SFWMD SPEC. SECTION 02260

END TRAIL WIDTH TRANSITION
BEGIN 8' TRAIL
STA. 23+66.89

END UPPER GRAVITY WALL
FDOT INDEX 400-011
STA. 25+25.00 (RT)
BEGIN REMOVE FENCE
+12.31', 14.67' (LT)

SFWMD C-31 CANAL
BEGIN 4" CONCRETE
END 6" REINFORCED CONC.
END LOWER GRAVITY WALL
W/ ALUMINUM PEDESTRIAN RAILING
FDOT INDEX 400-011
FDOT INDEX 515-062
STA. 25+50.00 (LT)



6" CONCRETE TRAIL PAVEMENT

FLOATING TURBIDITY BARRIER
END 6" CONCRETE
BEGIN 6" REINFORCED CONC.
BEGIN LOWER GRAVITY WALL
W/ ALUMINUM PEDESTRIAN RAILING
FDOT INDEX 400-011
FDOT INDEX 515-062
STA. 22+80.00 (LT)

BEGIN UPPER GRAVITY WALL
FDOT INDEX 400-011
STA. 24+60.00 (RT)
EXIST. 2" GAS MAIN
TO REMAIN

END TRAIL WIDTH TRANSITION
BEGIN 14' TRAIL
STA. 25+06.75

END REMOVE FENCE
TO NEAREST POST
+22.39', 11.15' (RT)±

SEE RETAINING WALL PLANS
SHEETS 40-41

SFWMD PROJECT CULVERT PC-8
REMOVE EXIST. 36" CMP
AND END TREATMENT
CONST. 36" RCP

US HIGHWAY 192

CURVE DATA

CURVE DATA BLCONST6
PI STA. = 22+04.33
Δ = 62° 44' 26" (LT)
D = 40° 55' 32"
T = 85.36
L = 153.30
R = 140.00
PC STA. = 21+18.97
PT STA. = 22+72.27

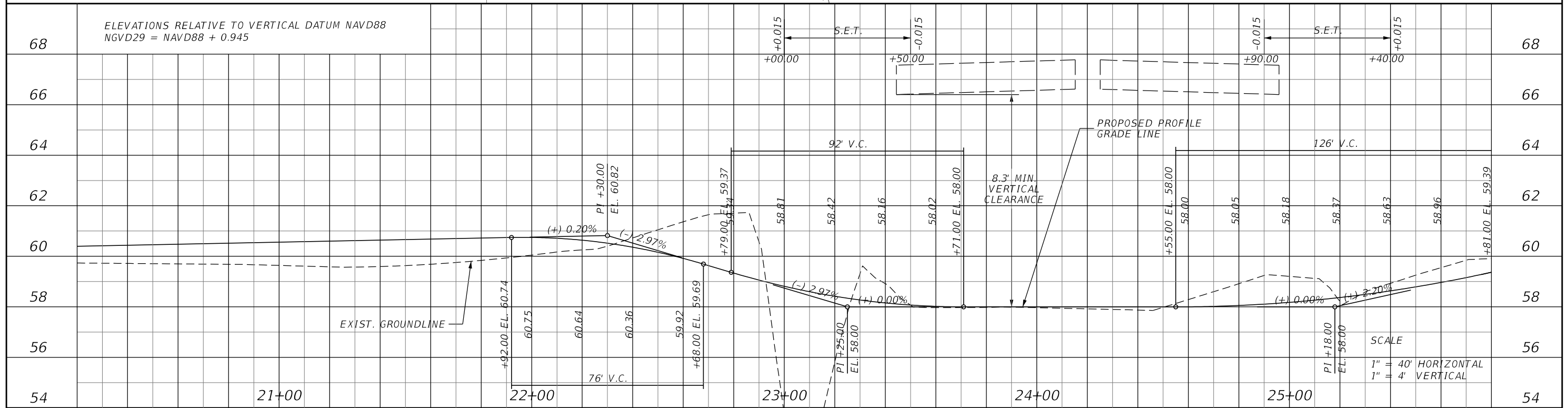
CURVE DATA BLCONST7
PI STA. = 23+25.01
Δ = 63° 02' 05" (RT)
D = 66° 37' 23"
T = 52.74
L = 94.61
R = 86.00
PC STA. = 22+72.27
PT STA. = 23+66.89

CURVE DATA BLCONST8
PI STA. = 25+60.99
Δ = 64° 28' 58" (RT)
D = 66° 37' 23"
T = 54.24
L = 96.79
R = 86.00
PC STA. = 25+06.75
PT STA. = 26+03.53

MATCHLINE STA. 20+20.00

MATCHLINE STA. 25+80.00

SFWMD C-31
CANAL EASEMENT LINE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCG KELLY, COLLINS & GENTRY, INC.
ENGINEERING / PLANNING
1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

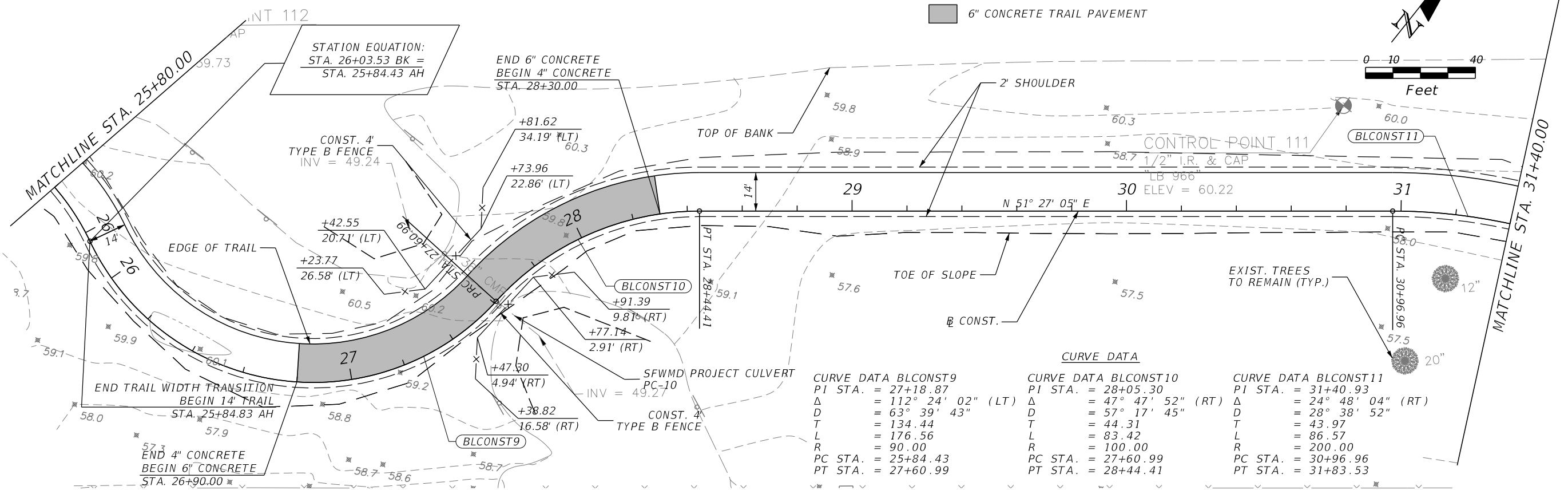
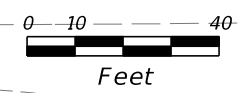
PLAN & PROFILE (4)
SHEET NO. 14

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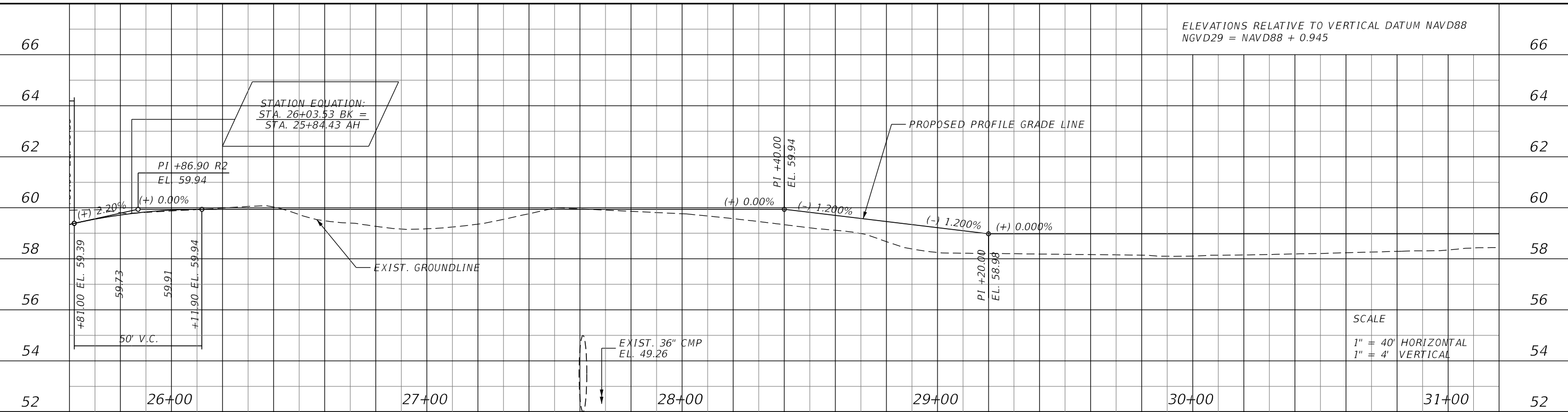
C-31 CANAL, ST. CLOUD CANAL
 400' R/W PER SOUTH FLORIDA WATER MANAGEMENT
 DISTRICT MAP BOOK 1, PAGES 7-18

SFWMD C-31 CANAL

6" CONCRETE TRAIL PAVEMENT



CURVE DATA		
CURVE DATA BLCONST9	CURVE DATA BLCONST10	CURVE DATA BLCONST11
PI STA. = 27+18.87	PI STA. = 28+05.30	PI STA. = 31+40.93
Δ = 112° 24' 02" (LT)	Δ = 47° 47' 52" (RT)	Δ = 24° 48' 04" (RT)
D = 63° 39' 43"	D = 57° 17' 45"	D = 28° 38' 52"
T = 134.44	T = 44.31	T = 43.97
L = 176.56	L = 83.42	L = 86.57
R = 90.00	R = 100.00	R = 200.00
PC STA. = 25+84.43	PC STA. = 27+60.99	PC STA. = 30+96.96
PT STA. = 27+60.99	PT STA. = 28+44.41	PT STA. = 31+83.53



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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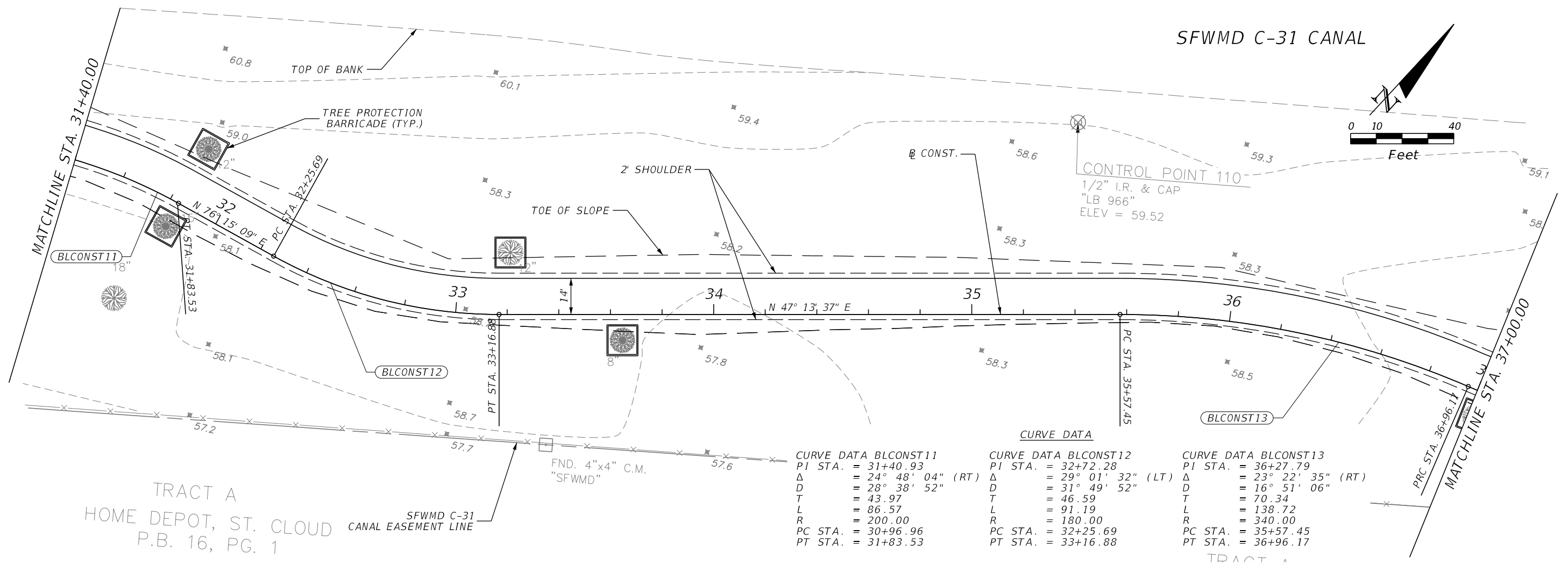
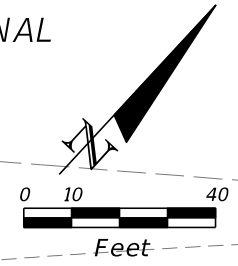
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

PLAN & PROFILE (5)

SHEET NO.
15

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SFWMD C-31 CANAL

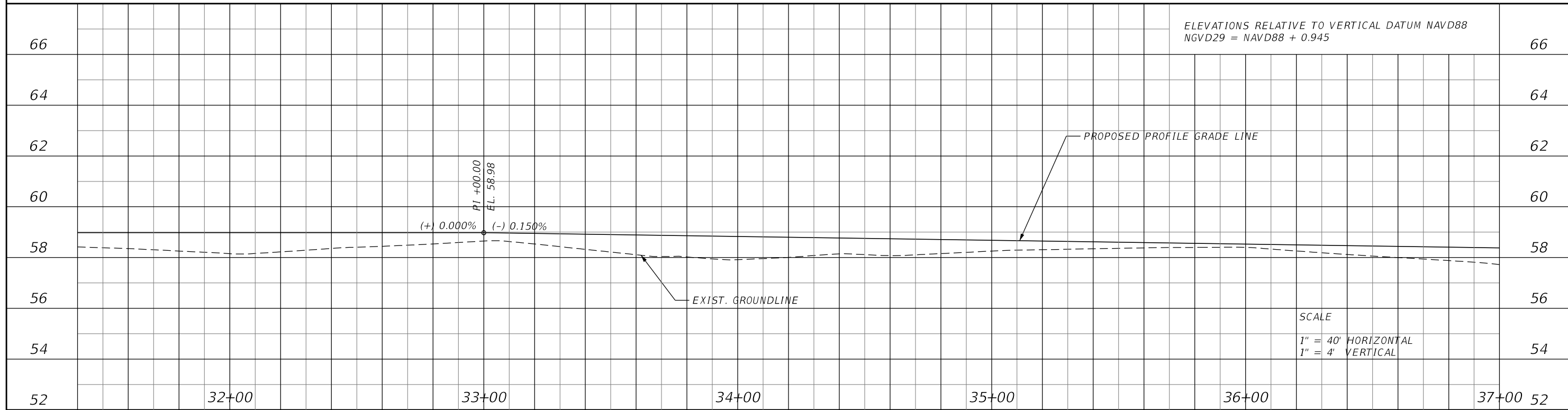


TRACT A
 HOME DEPOT, ST. CLOUD
 P.B. 16, PG. 1

SFWMD C-31
 CANAL EASEMENT LINE

FND. 4"x4" C.M.
 "SFWMD"

ELEVATIONS RELATIVE TO VERTICAL DATUM NAVD88
 NGVD29 = NAVD88 + 0.945



SCALE
 1" = 40' HORIZONTAL
 1" = 4' VERTICAL

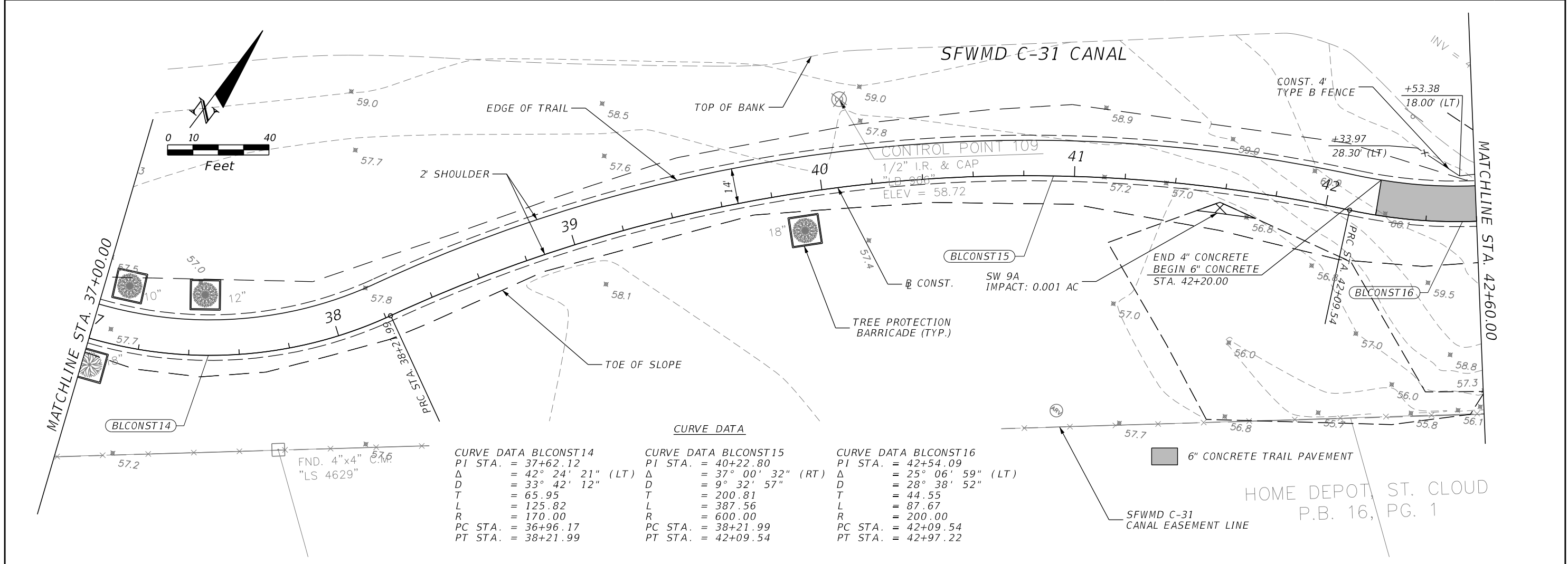
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

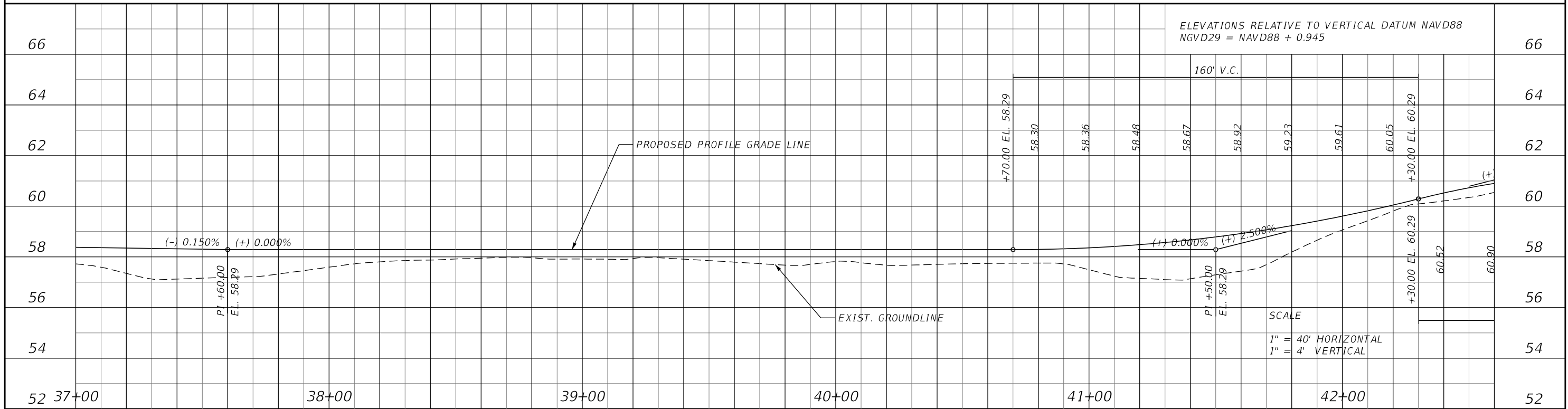
PLAN & PROFILE (6)
 SHEET NO. 16

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CURVE DATA

Curve ID	PI STA.	Δ	D	T	L	R	PC STA.	PT STA.
CURVE DATA BLCONST14	37+62.12	42° 24' 21" (LT)	33° 42' 12"	65.95	125.82	170.00	36+96.17	38+21.99
CURVE DATA BLCONST15	40+22.80	37° 00' 32" (RT)	9° 32' 57"	200.81	387.56	600.00	38+21.99	42+09.54
CURVE DATA BLCONST16	42+54.09	25° 06' 59" (LT)	28° 38' 52"	44.55	87.67	200.00	42+09.54	42+97.22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

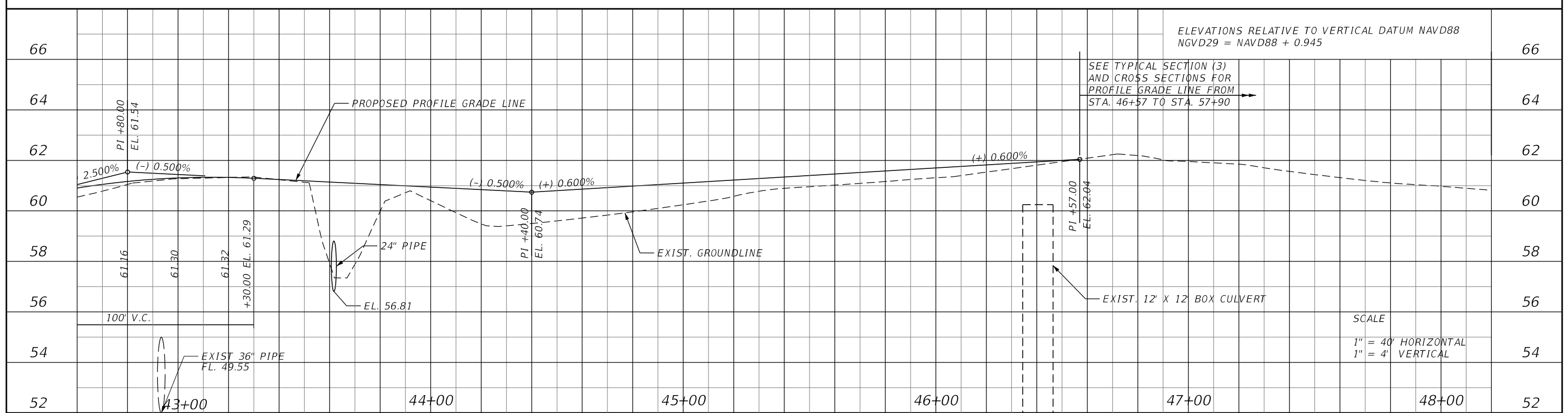
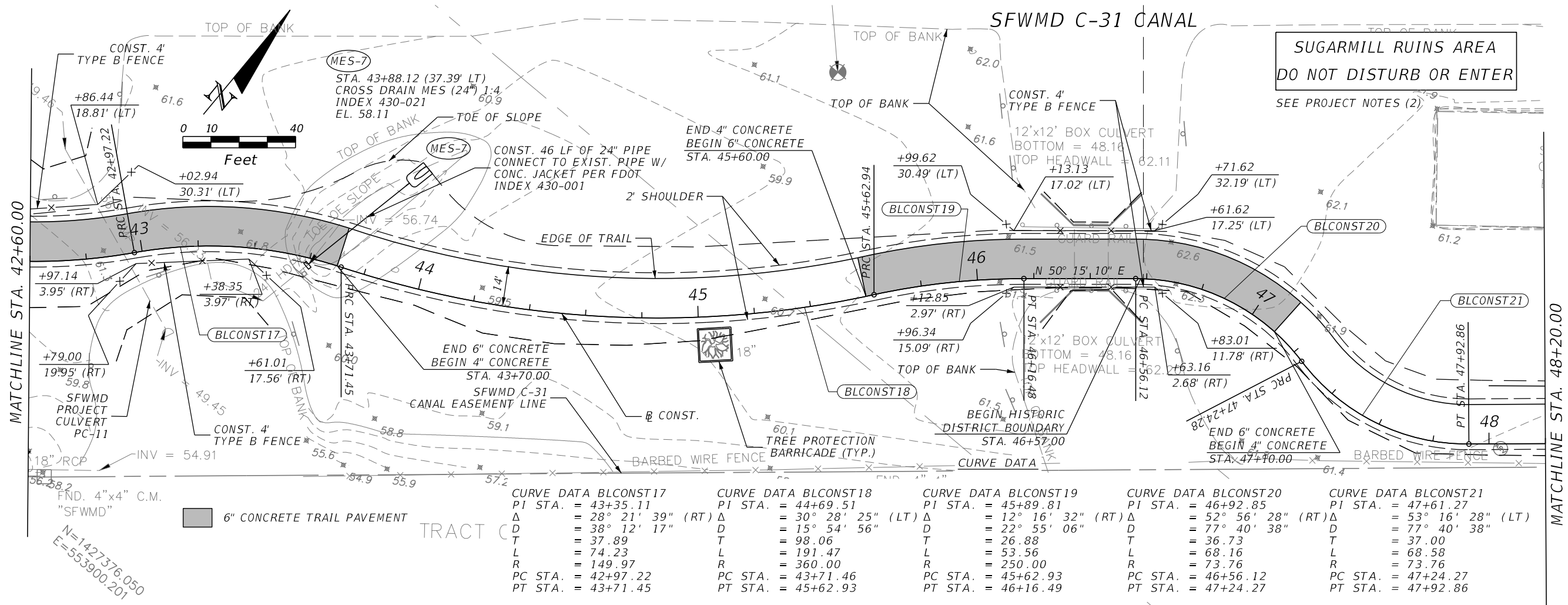
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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PLAN & PROFILE (7)

SHEET NO.
17

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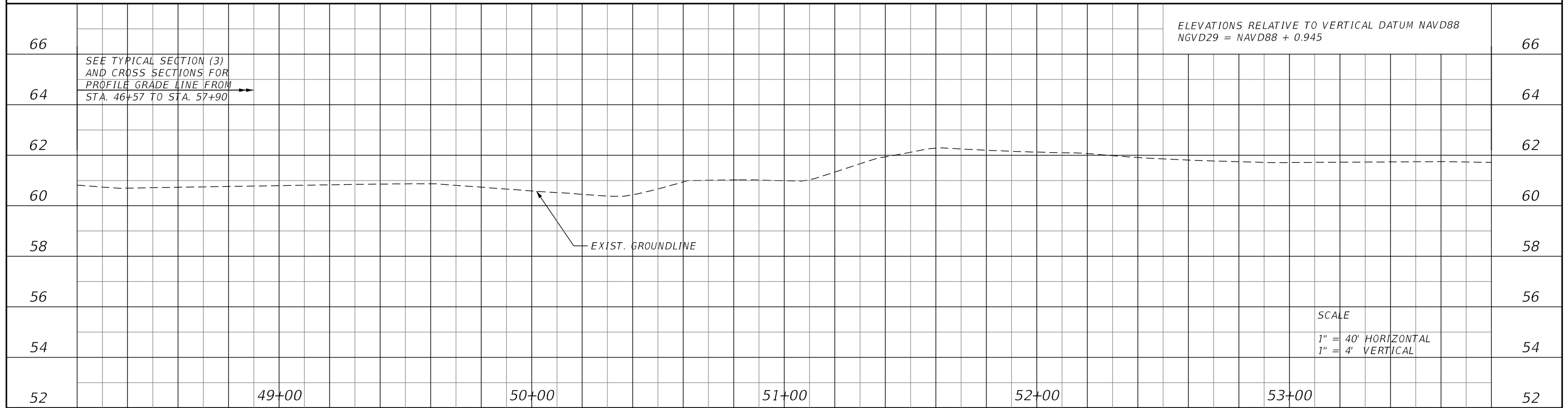
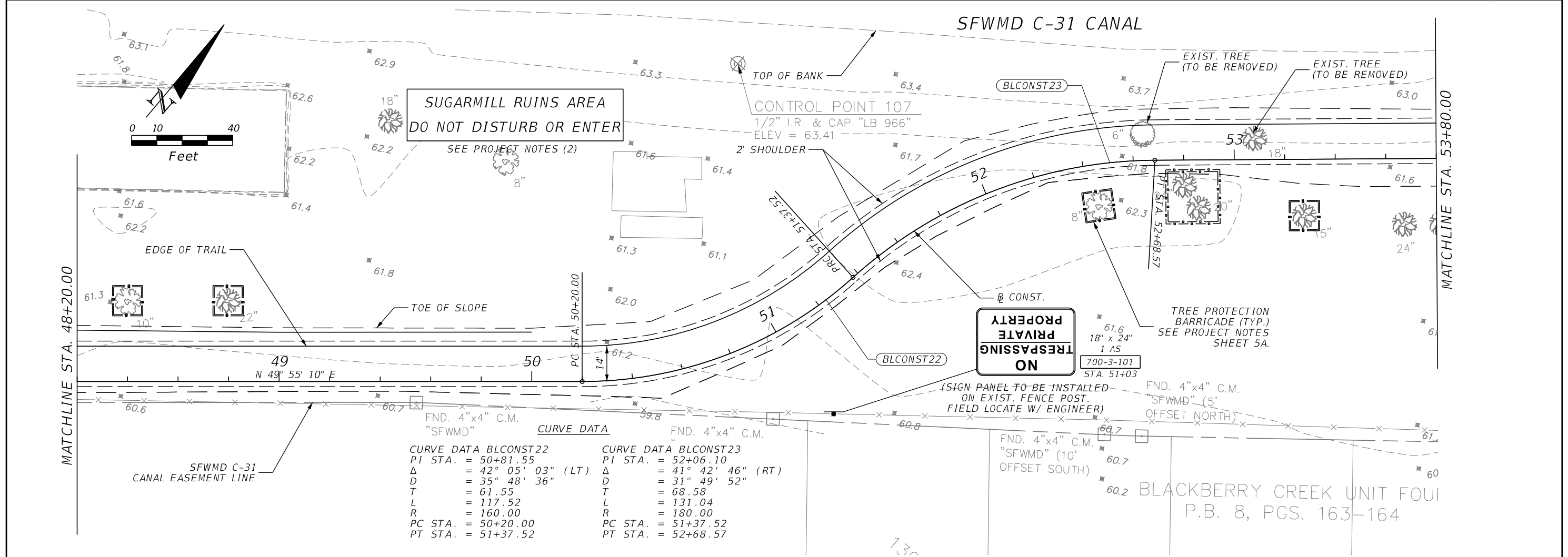
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

PLAN & PROFILE (8)
SHEET NO. 18

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REVISIONS			
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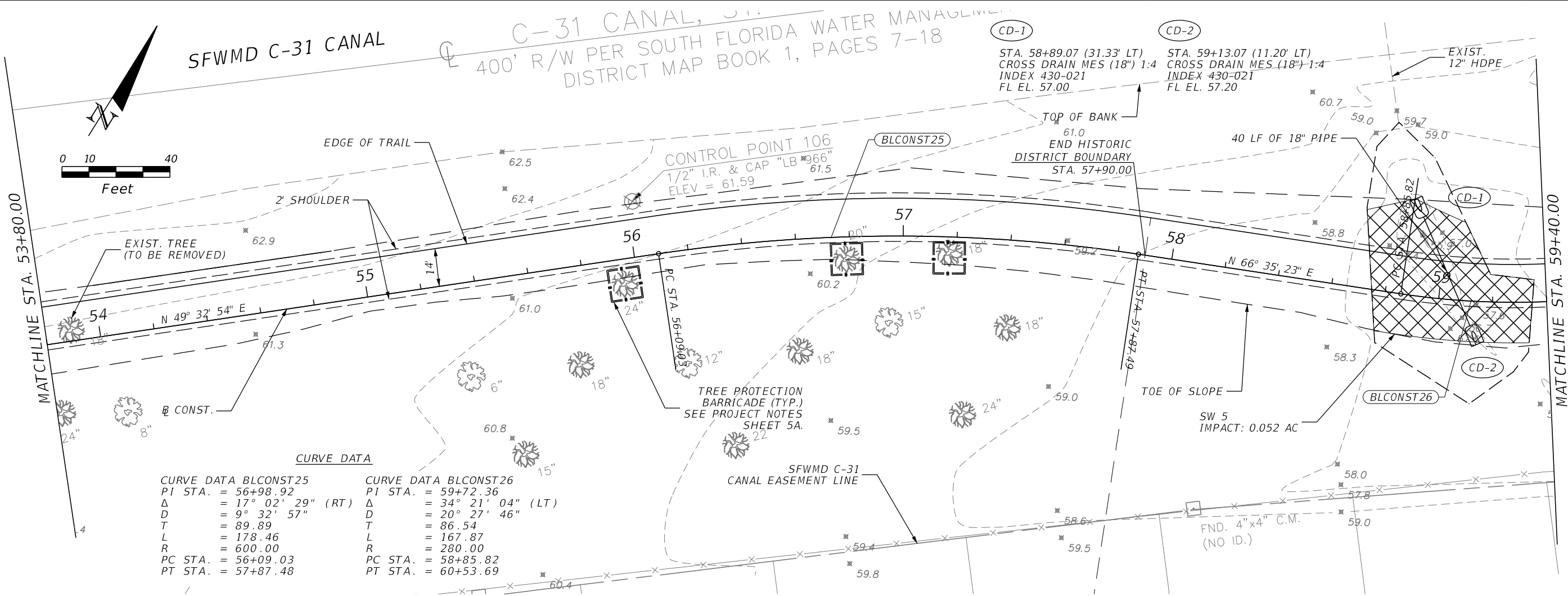
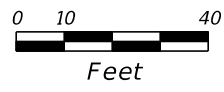
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

PLAN & PROFILE (9)
SHEET NO. 19

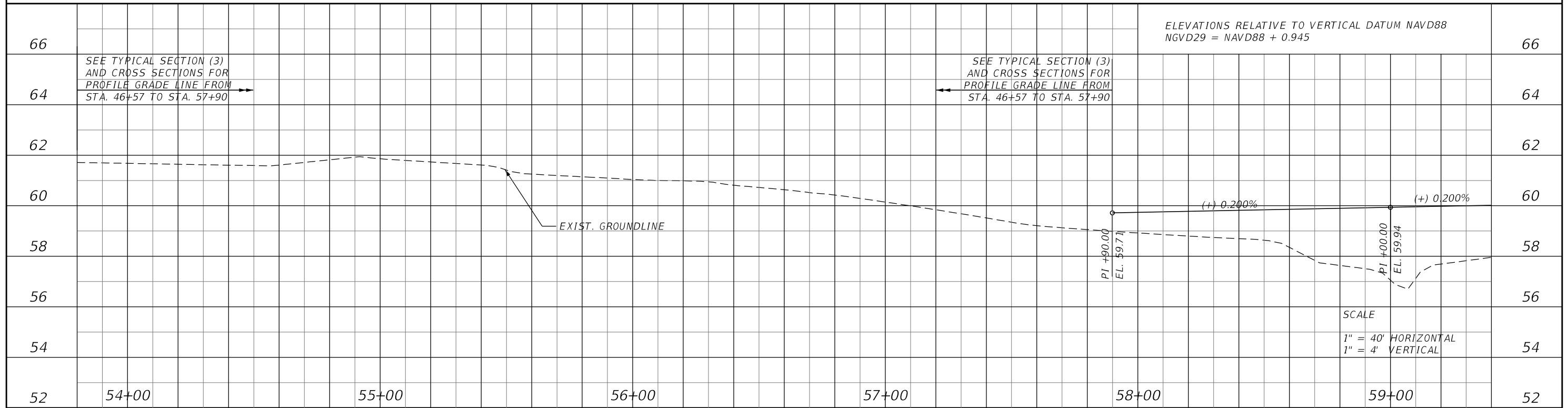
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SFWMD C-31 CANAL

C-31 CANAL, ST. CLOUD
 400' R/W PER SOUTH FLORIDA WATER MANAGEMENT DISTRICT MAP BOOK 1, PAGES 7-18



CURVE DATA	
CURVE DATA BLCONST25	CURVE DATA BLCONST26
PI STA. = 56+98.92	PI STA. = 59+72.36
Δ = 17° 02' 29" (RT)	Δ = 34° 21' 04" (LT)
D = 9° 32' 57"	D = 20° 27' 46"
T = 89.89	T = 86.54
L = 178.46	L = 167.87
R = 600.00	R = 280.00
PC STA. = 56+09.03	PC STA. = 58+85.82
PT STA. = 57+87.48	PT STA. = 60+53.69



ELEVATIONS RELATIVE TO VERTICAL DATUM NAVD88
 NGVD29 = NAVD88 + 0.945

SEE TYPICAL SECTION (3)
 AND CROSS SECTIONS FOR
 PROFILE GRADE LINE FROM
 STA. 46+57 TO STA. 57+90

SEE TYPICAL SECTION (3)
 AND CROSS SECTIONS FOR
 PROFILE GRADE LINE FROM
 STA. 46+57 TO STA. 57+90

SCALE
 1" = 40' HORIZONTAL
 1" = 4' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

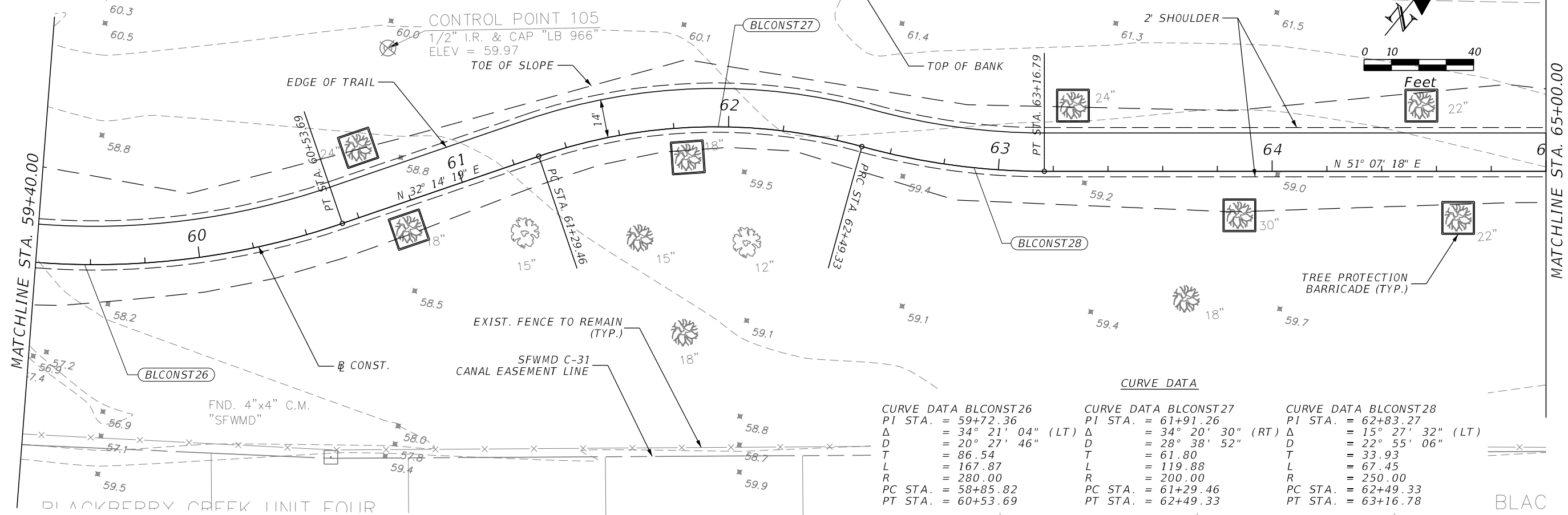
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE (10)
 SHEET NO. 20

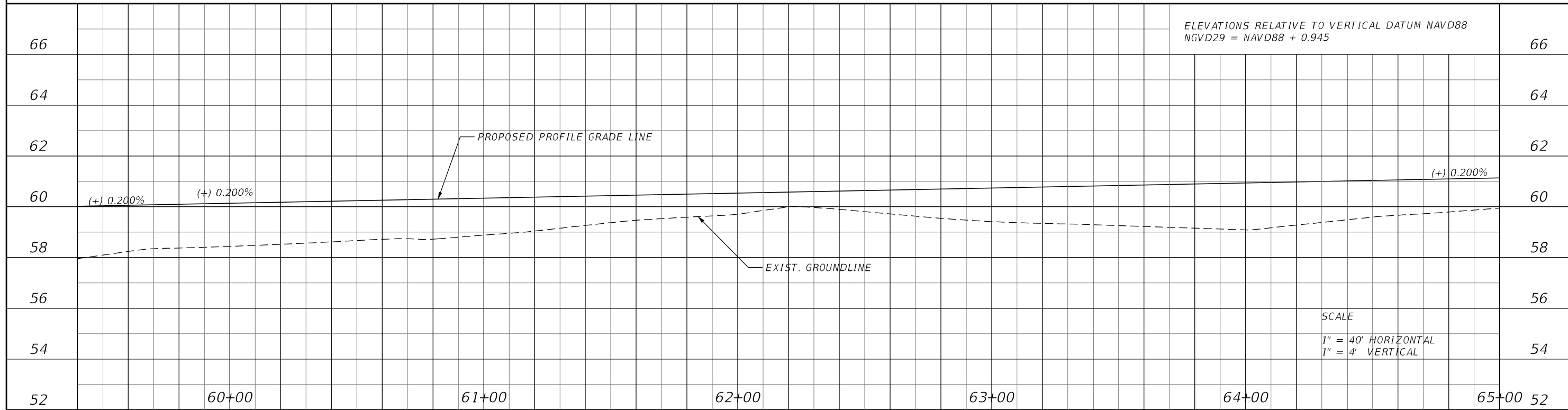
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SFWMD C-31 CANAL



CURVE DATA BLCONST26	CURVE DATA BLCONST27	CURVE DATA BLCONST28
PI STA. = 59+72.36	PI STA. = 61+91.26	PI STA. = 62+83.27
Δ = 34° 21' 04" (LT)	Δ = 34° 20' 30" (RT)	Δ = 15° 27' 32" (LT)
D = 20° 27' 46"	D = 28° 38' 52"	D = 22° 55' 06"
T = 86.54	T = 61.80	T = 33.93
L = 167.87	L = 119.88	L = 67.45
R = 280.00	R = 200.00	R = 250.00
PC STA. = 58+85.82	PC STA. = 61+29.46	PC STA. = 62+49.33
PT STA. = 60+53.69	PT STA. = 62+49.33	PT STA. = 63+16.78

ELEVATIONS RELATIVE TO VERTICAL DATUM NAVD88
NGVD29 = NAVD88 + 0.945



SCALE
1" = 40' HORIZONTAL
1" = 4' VERTICAL

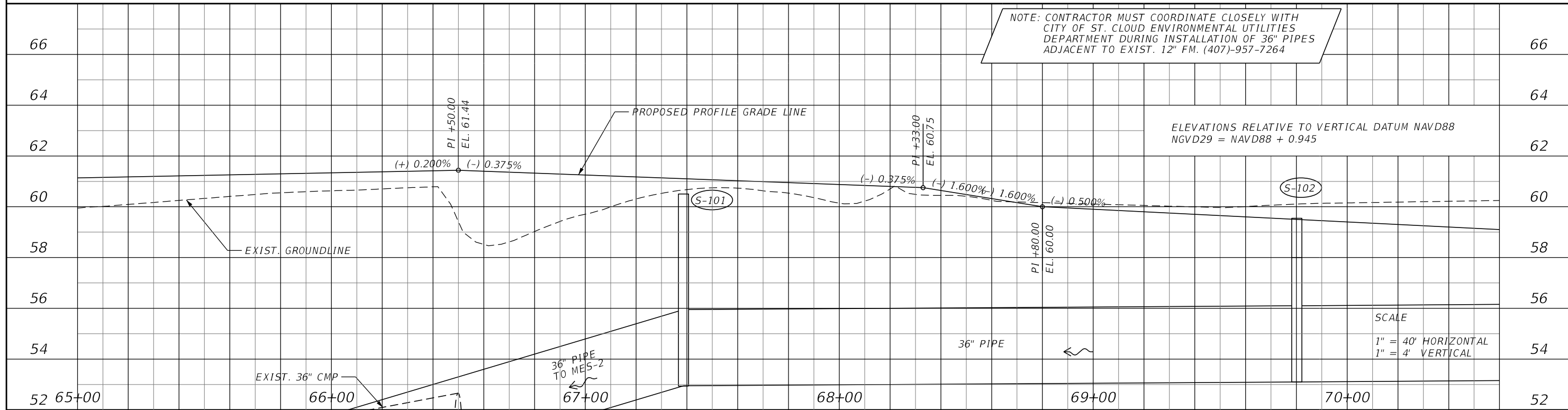
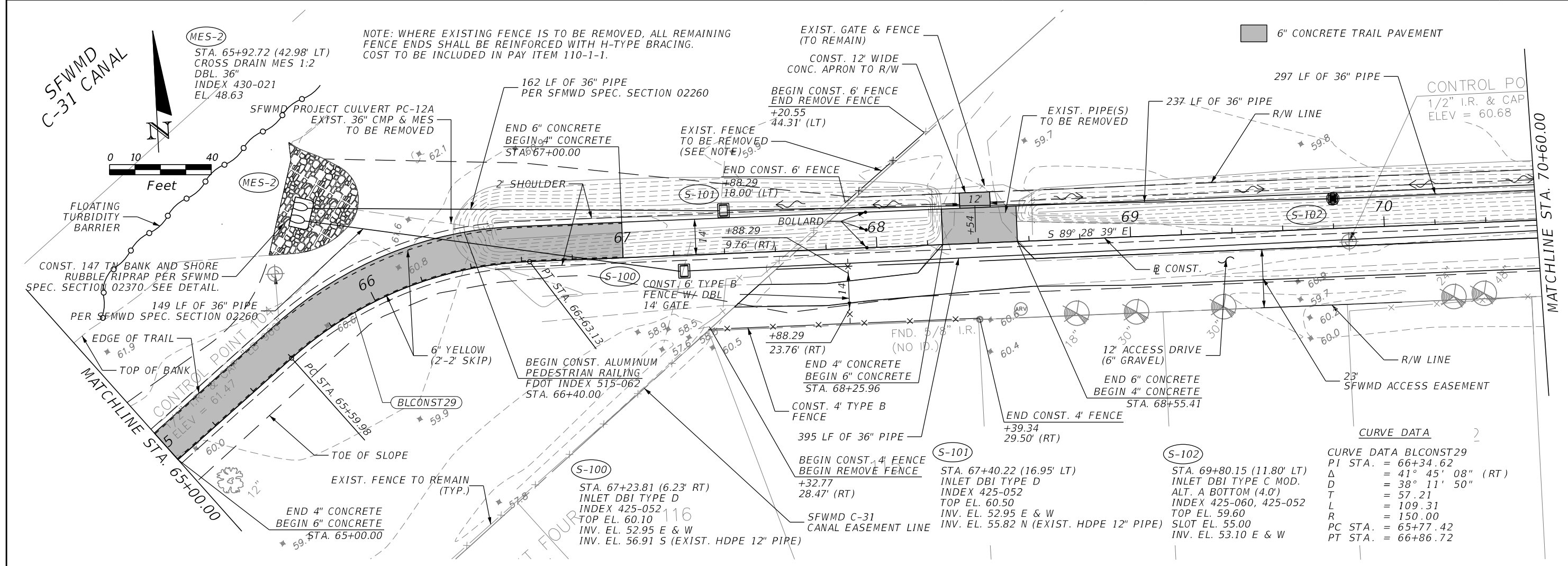
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE (11)
 SHEET NO. 21

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DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

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407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY

KISSIMEE - ST. CLOUD CONNECTOR TRAIL

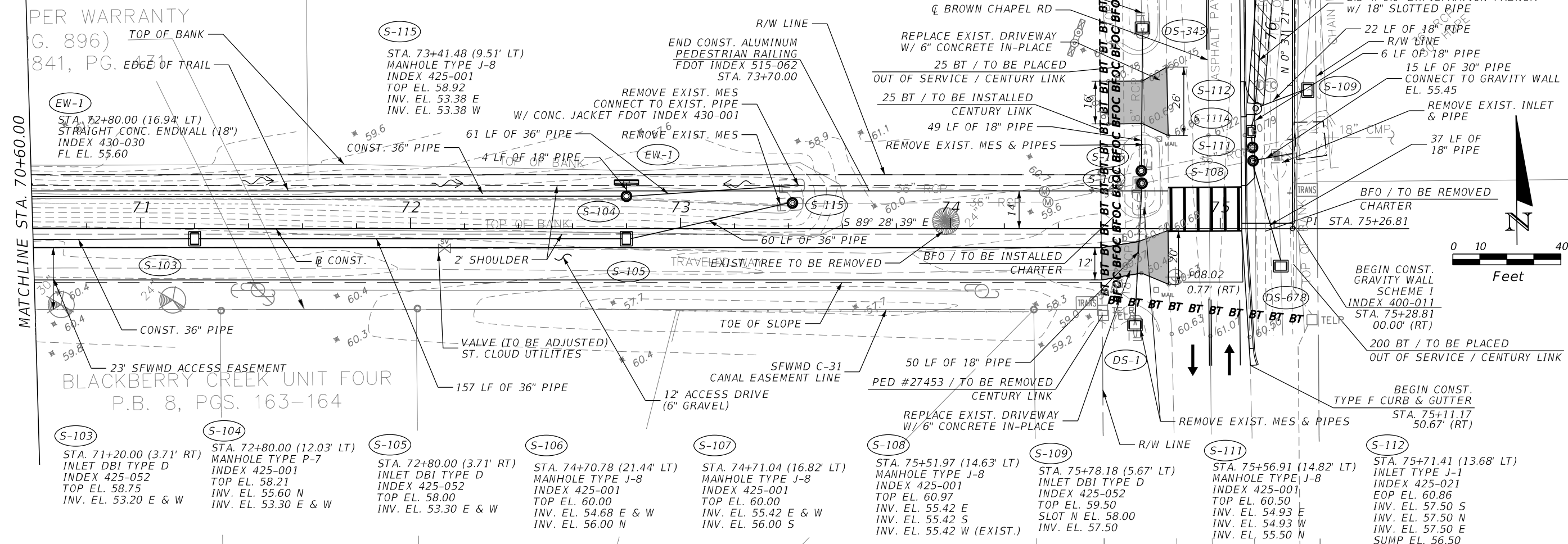
SHEET NO.

22

PLAN & PROFILE (12)

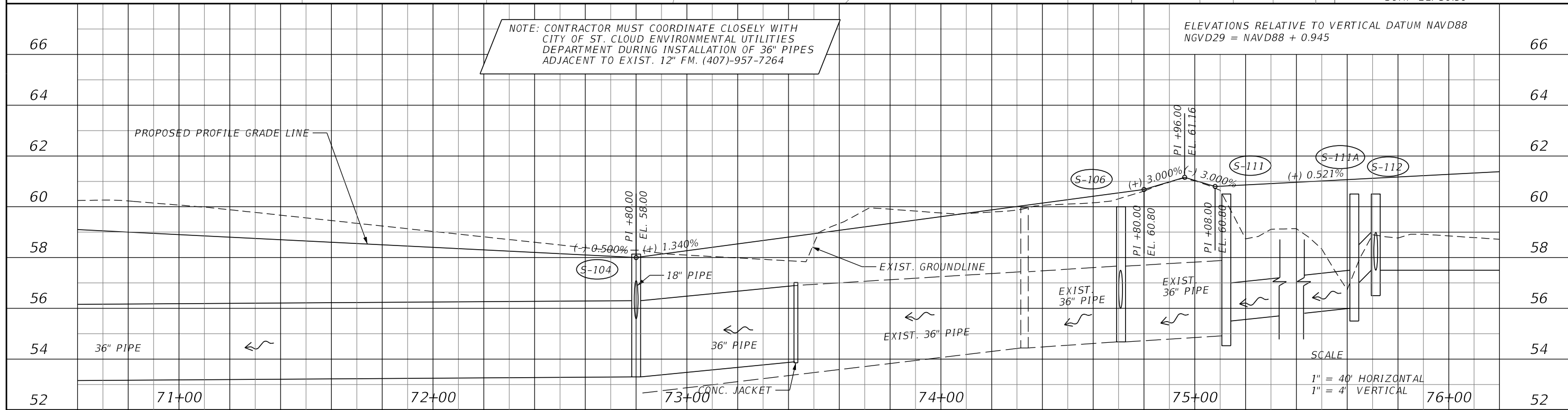
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NOTE: CONTRACTOR MUST COORDINATE CLOSELY WITH CITY OF ST. CLOUD ENVIRONMENTAL UTILITIES DEPARTMENT DURING INSTALLATION OF 36" PIPES ADJACENT TO EXIST. 12" FM. (407)-957-7264

ELEVATIONS RELATIVE TO VERTICAL DATUM NAVD88
NGVD29 = NAVD88 + 0.945



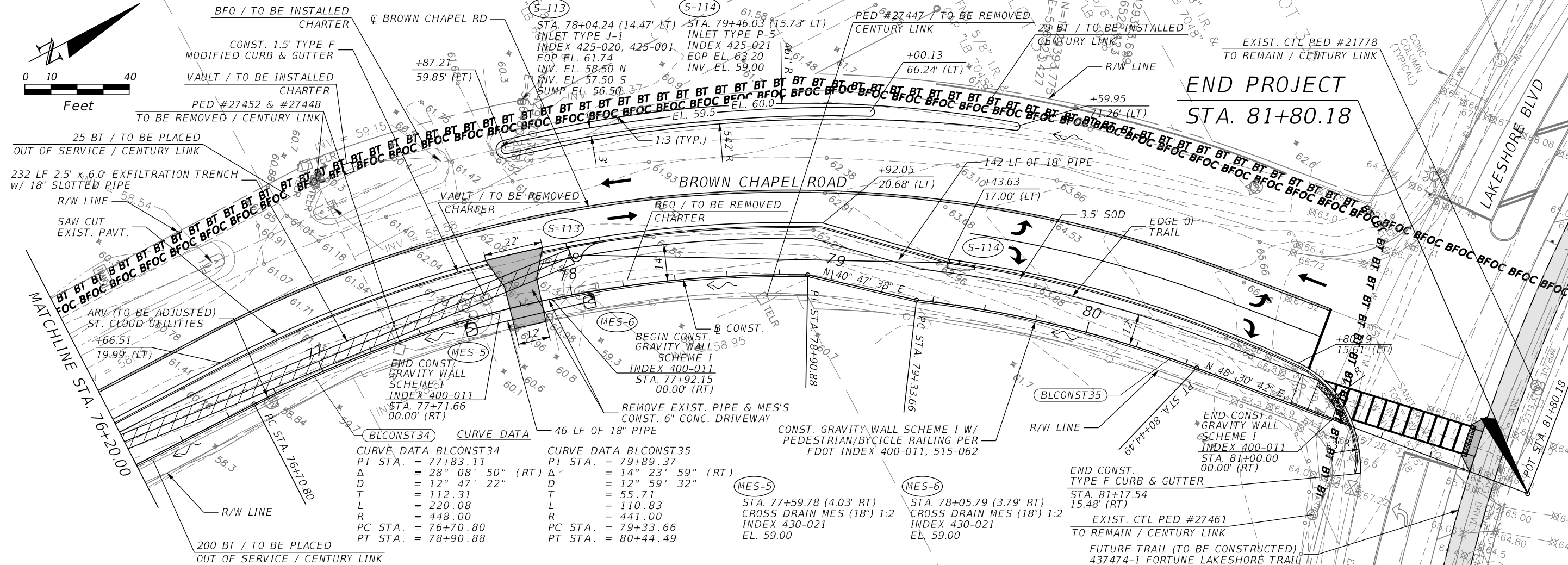
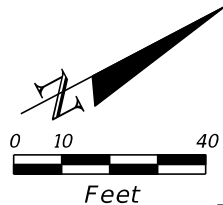
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCG KELLY, COLLINS & GENTRY, INC.
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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PLAN & PROFILE (13)
SHEET NO. 23

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**END PROJECT
STA. 81+80.18**

CURVE DATA BLCONST34

PI STA.	= 77+83.11
Δ	= 28° 08' 50" (RT)
D	= 12° 47' 22"
T	= 112.31
L	= 220.08
R	= 448.00
PC STA.	= 76+70.80
PT STA.	= 78+90.88

CURVE DATA BLCONST35

PI STA.	= 79+89.37
Δ	= 14° 23' 59" (RT)
D	= 12° 59' 32"
T	= 55.71
L	= 110.83
R	= 441.00
PC STA.	= 79+33.66
PT STA.	= 80+44.49

MES-5

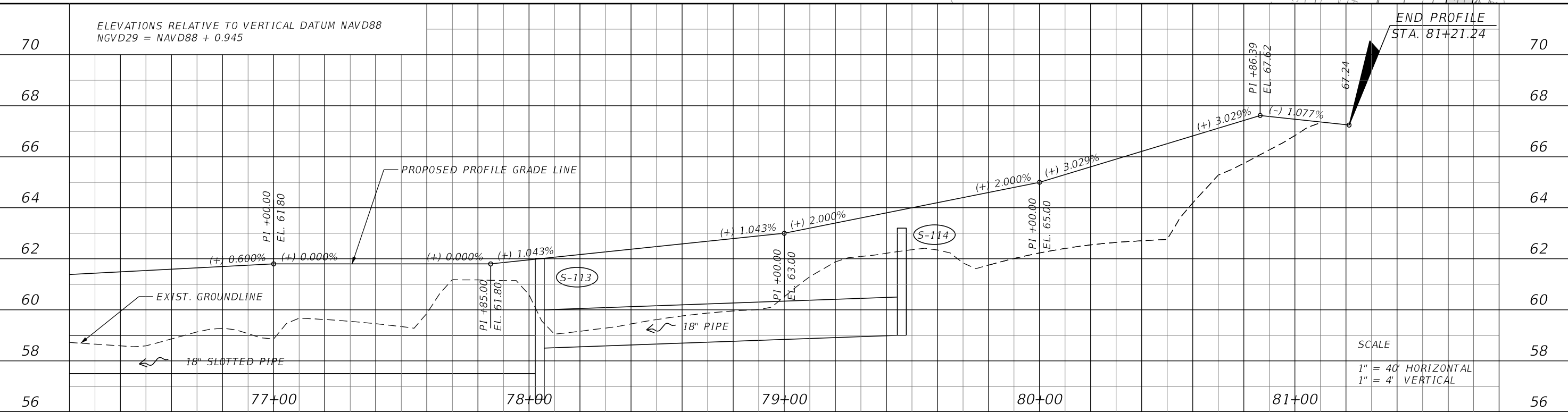
STA.	77+59.78 (4.03' RT)
CROSS DRAIN	MES (18") 1:2
INDEX	430-021
EL.	59.00

MES-6

STA.	78+05.79 (3.79' RT)
CROSS DRAIN	MES (18") 1:2
INDEX	430-021
EL.	59.00

END CONST. TYPE F CURB & GUTTER

STA.	81+17.54
LENGTH	15.48' (RT)



SCALE
1" = 40' HORIZONTAL
1" = 4' VERTICAL

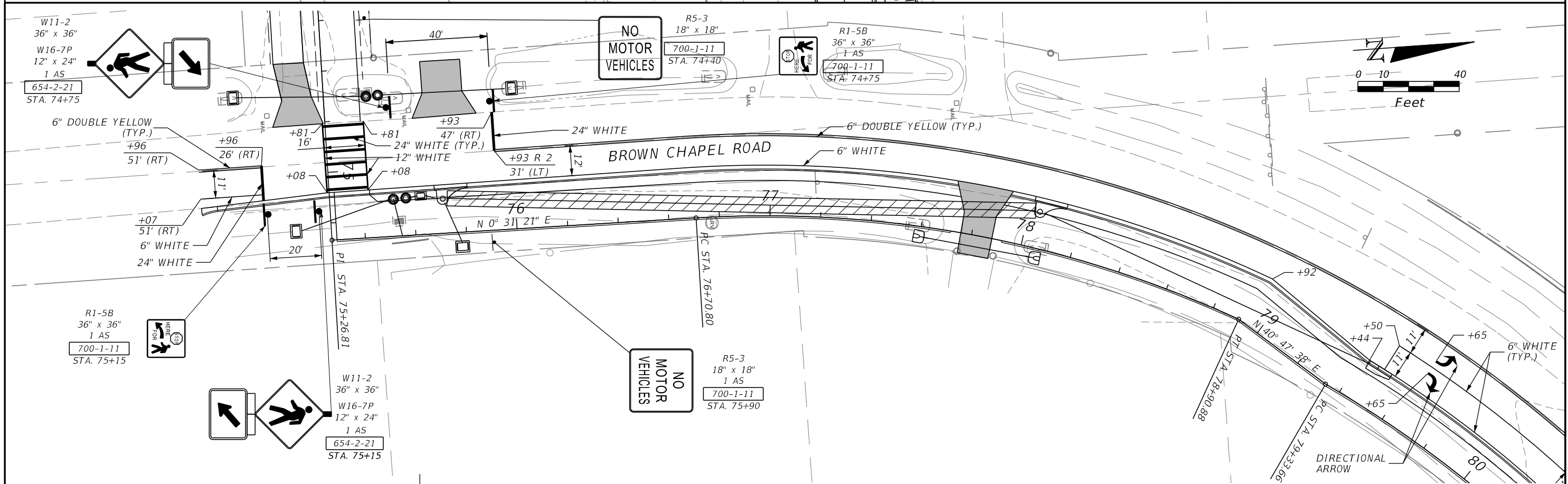
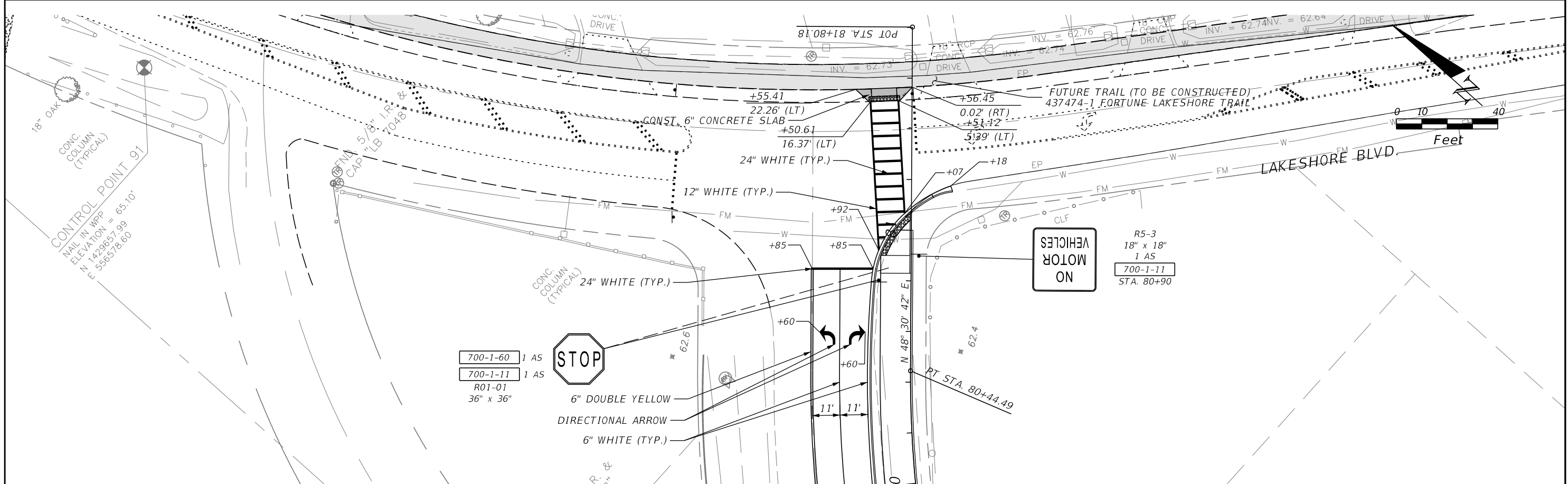
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

PLAN & PROFILE (14)
 SHEET NO. 24

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

INTERSECTION DETAIL
 SHEET NO.
 24A

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Regular Exc. Embankment

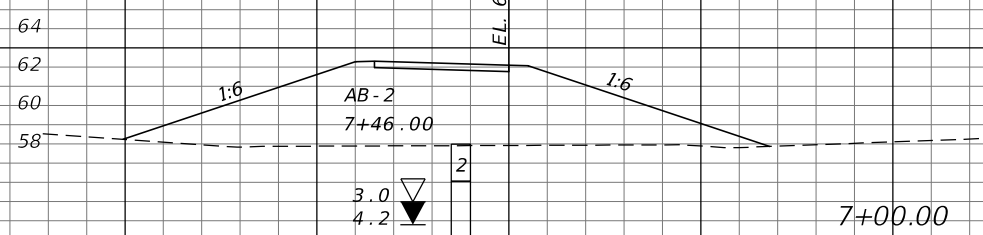
A V A V

Regular Exc. Embankment

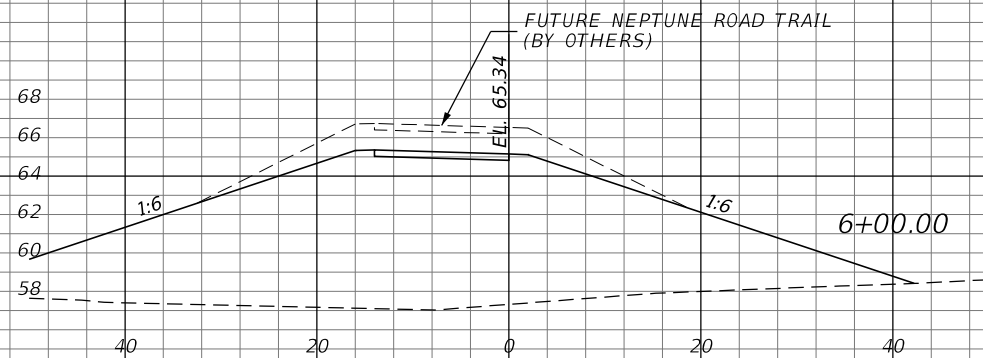
A V A V



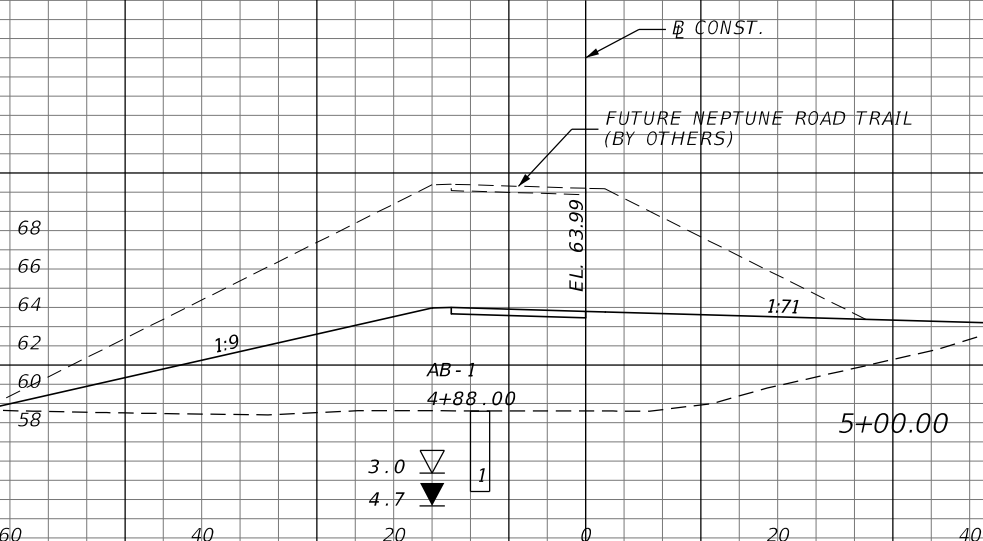
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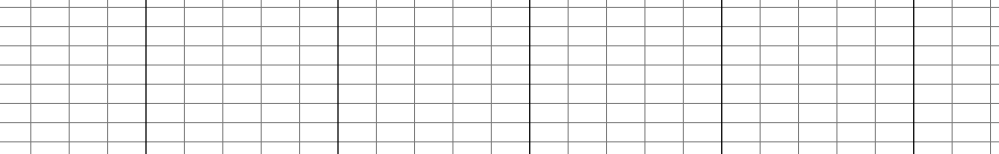
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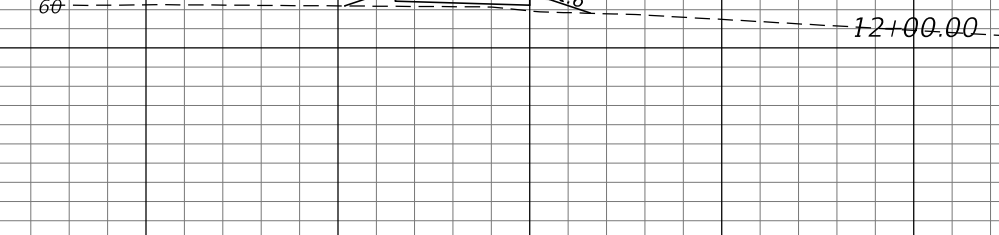
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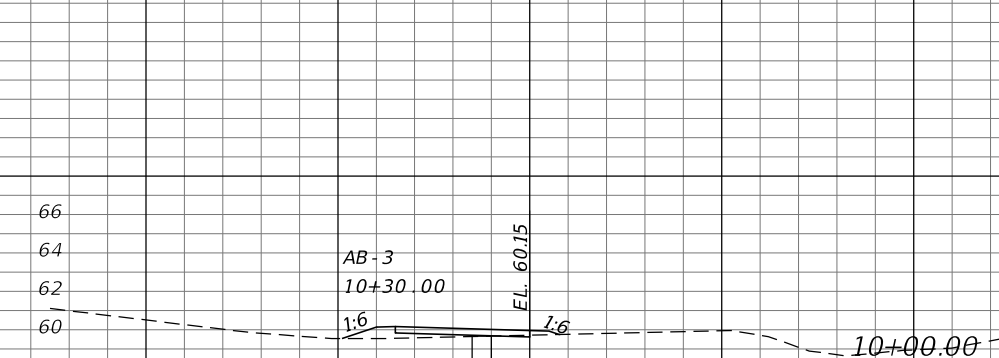
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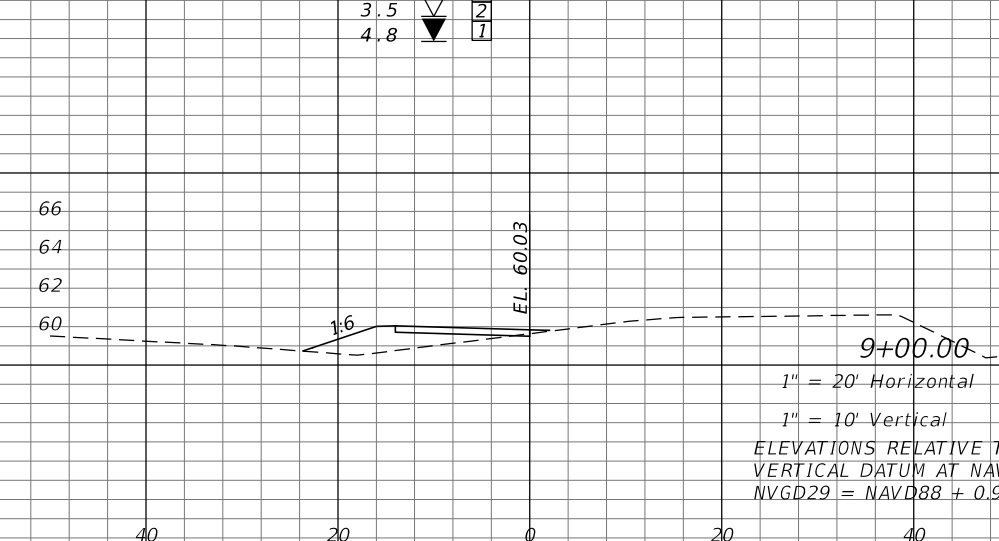
0 0 8 22



0 0 4 15



0 0 4 35



0 0 15 85

1" = 20' Horizontal
1" = 10' Vertical
ELEVATIONS RELATIVE TO
VERTICAL DATUM AT NAVD88
NVGD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

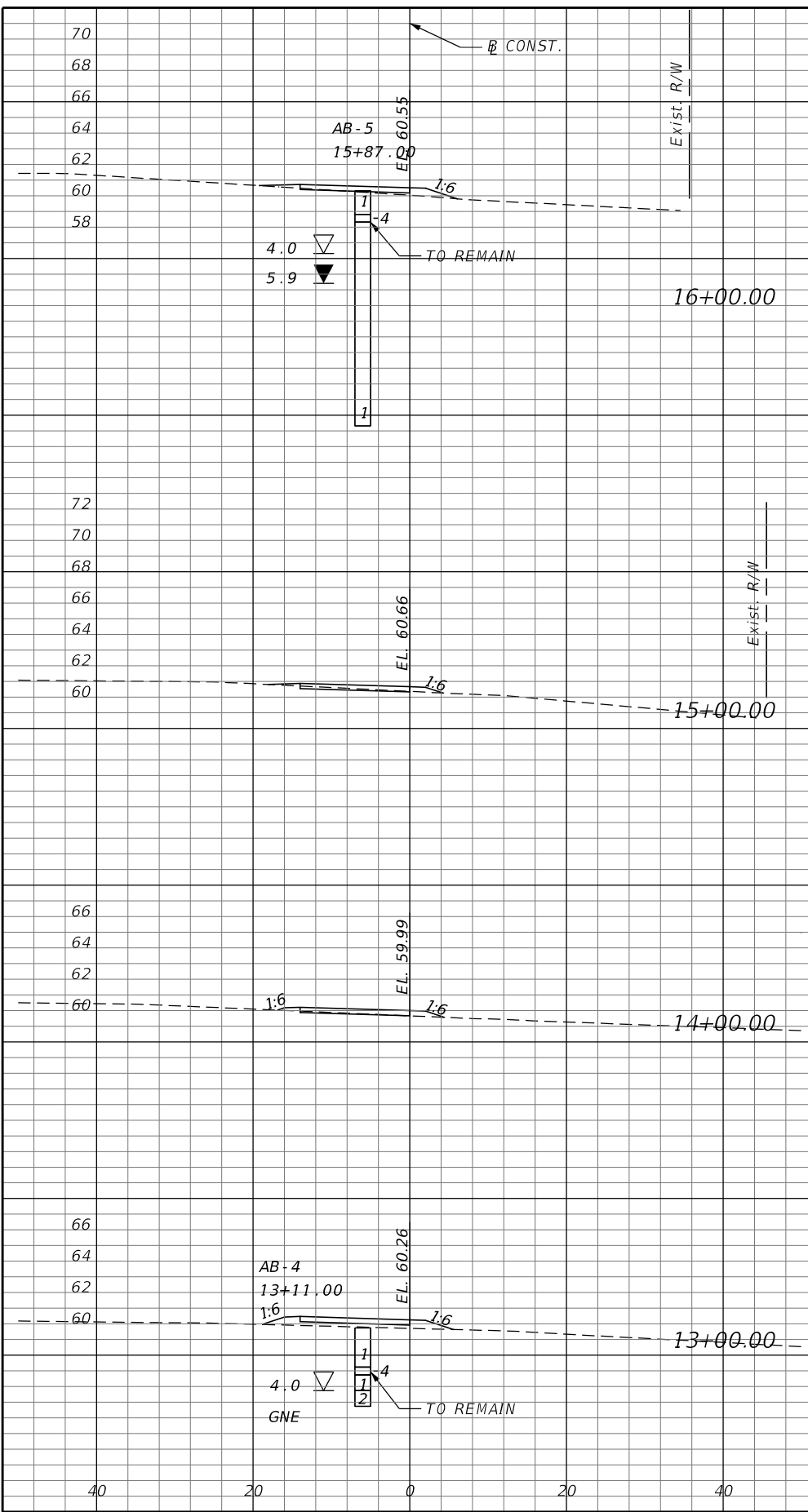
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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

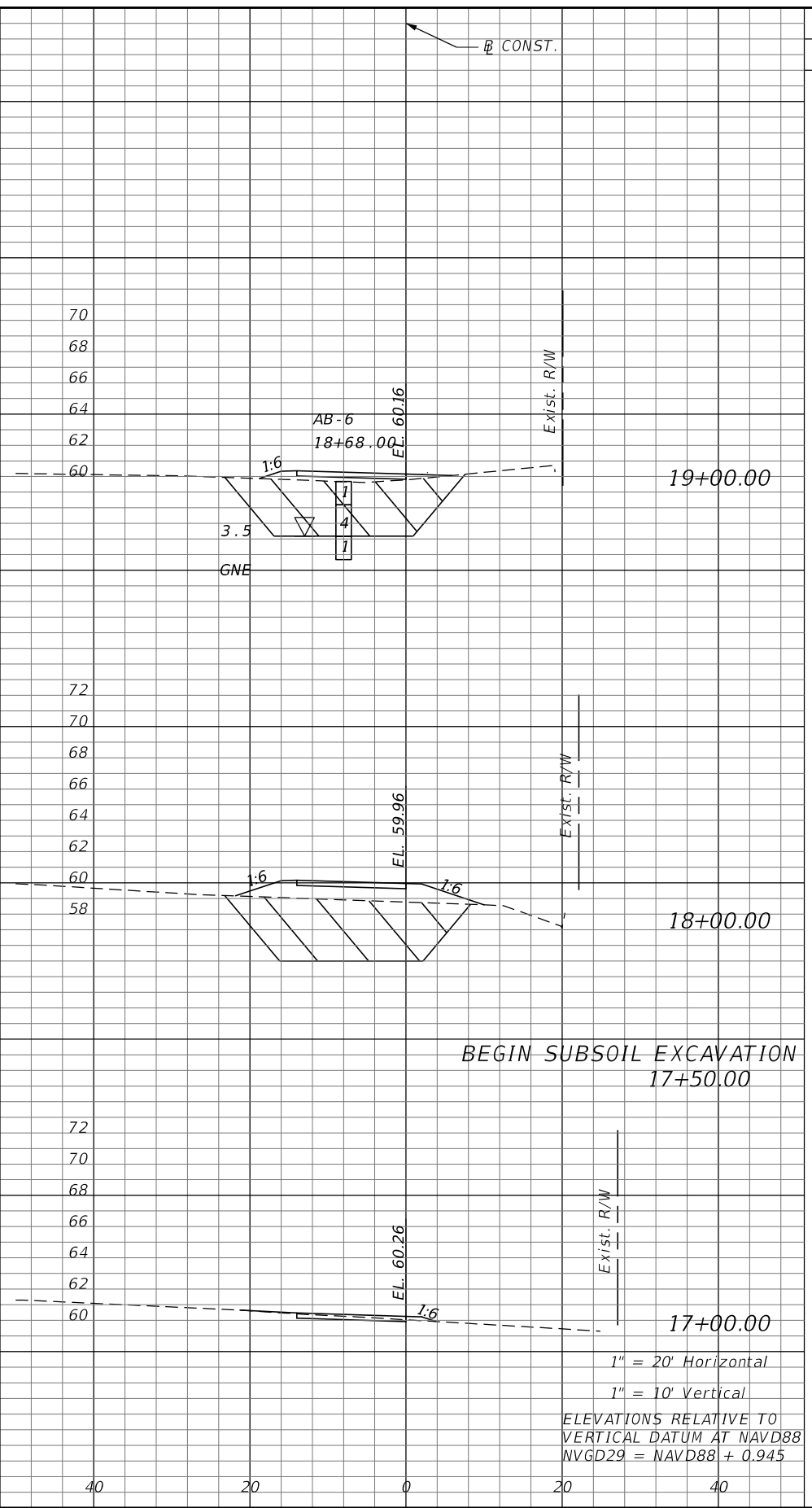
CROSS SECTIONS

SHEET NO.
25

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	2	3	7
0	0	1	4	1	6
0	0	1	2	2	17
0	0	0	0	7	28



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
87	341	0	0	93	396
97	180	0	6	121	226
0	0	3	6	1	7

BEGIN SUBSOIL EXCAVATION
17+50.00

1" = 20' Horizontal
1" = 10' Vertical
ELEVATIONS RELATIVE TO
VERTICAL DATUM AT NAVD88
NVGD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

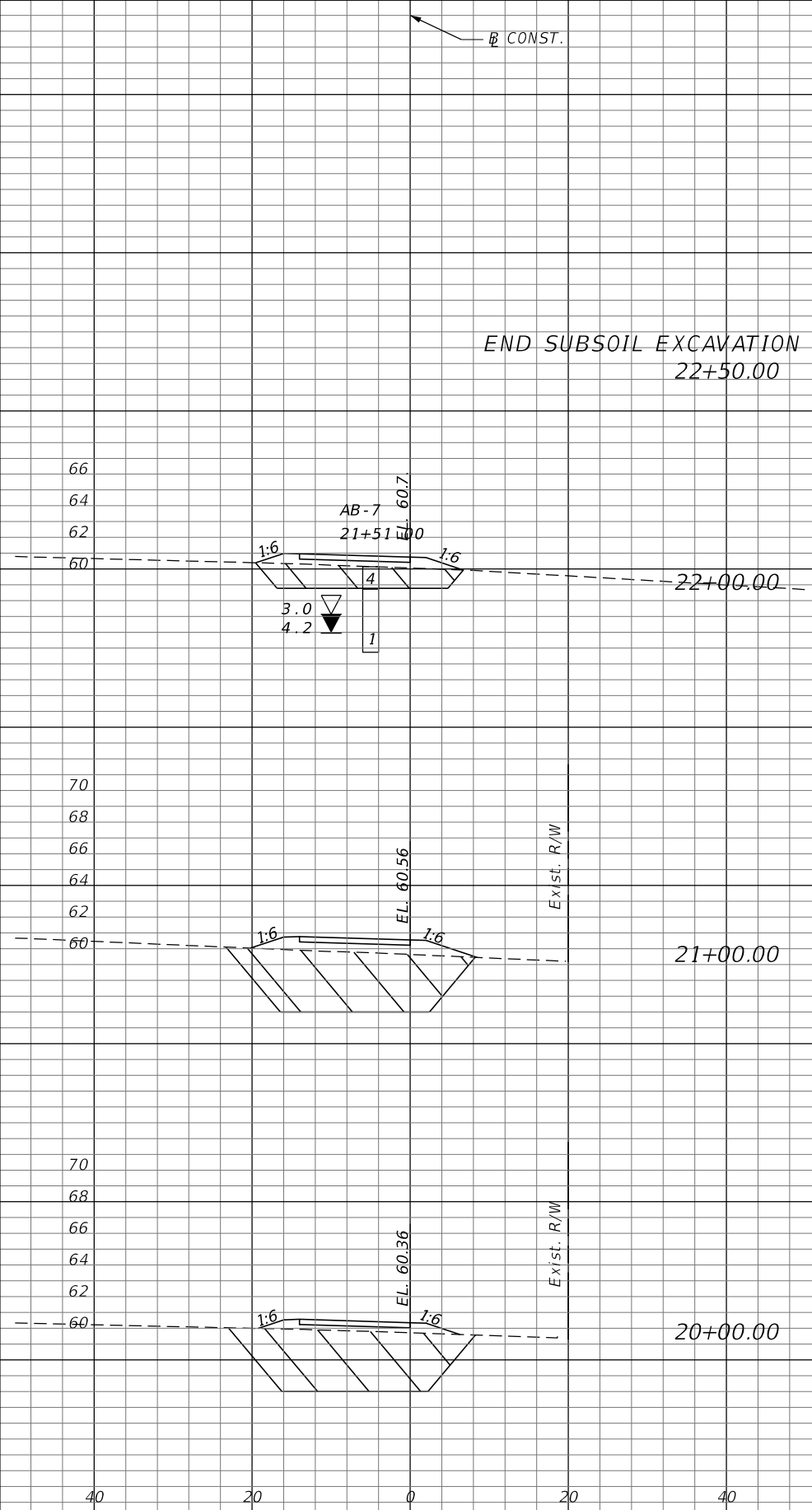
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

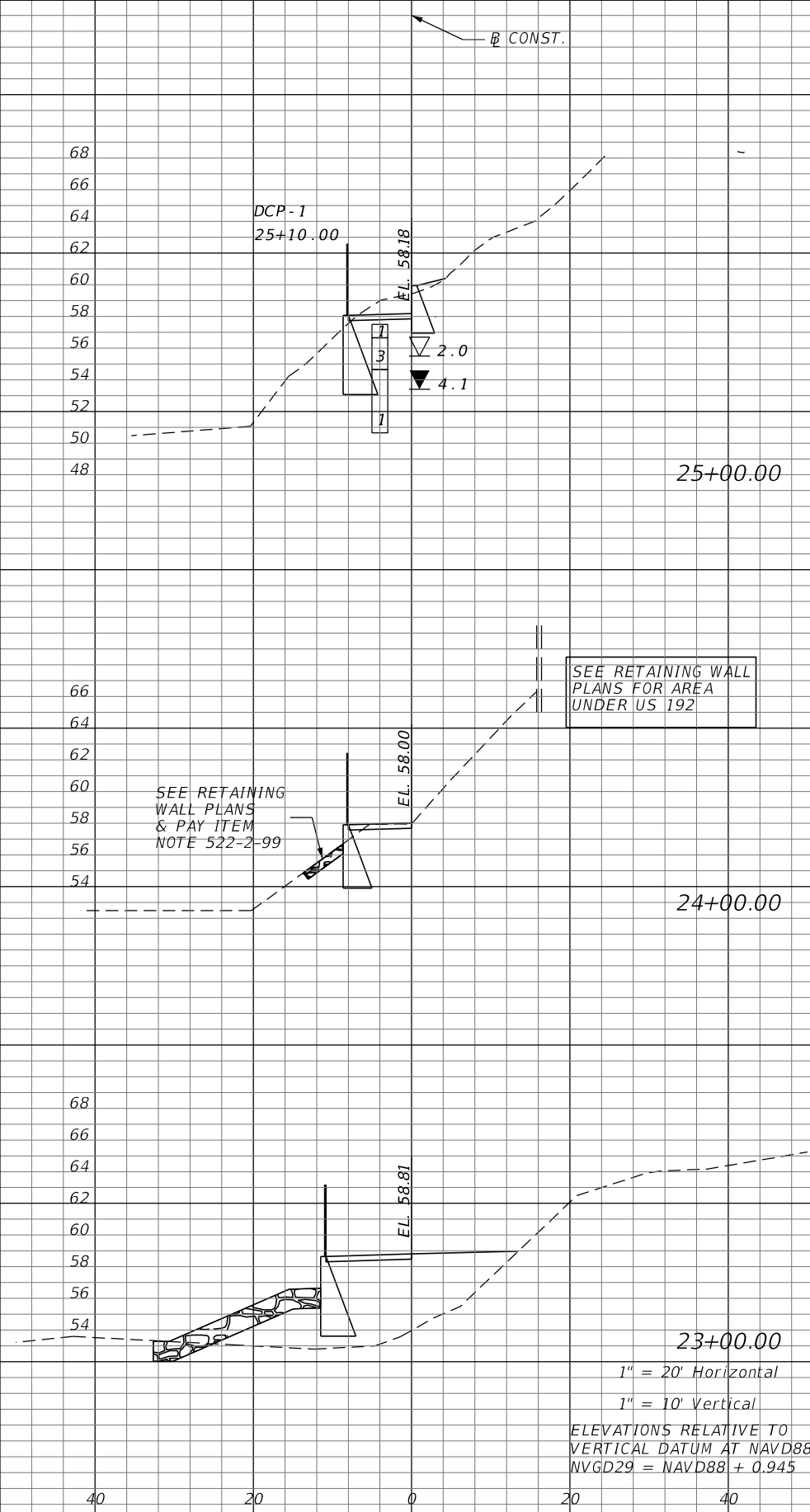
CROSS SECTIONS

SHEET NO.
26

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
33	237	0	0	44	287
95	352	0	0	111	398
95	337	0	0	104	365



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	15	44	7	13
0	0	9	17	0	333
0	61	0	0	180	415

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

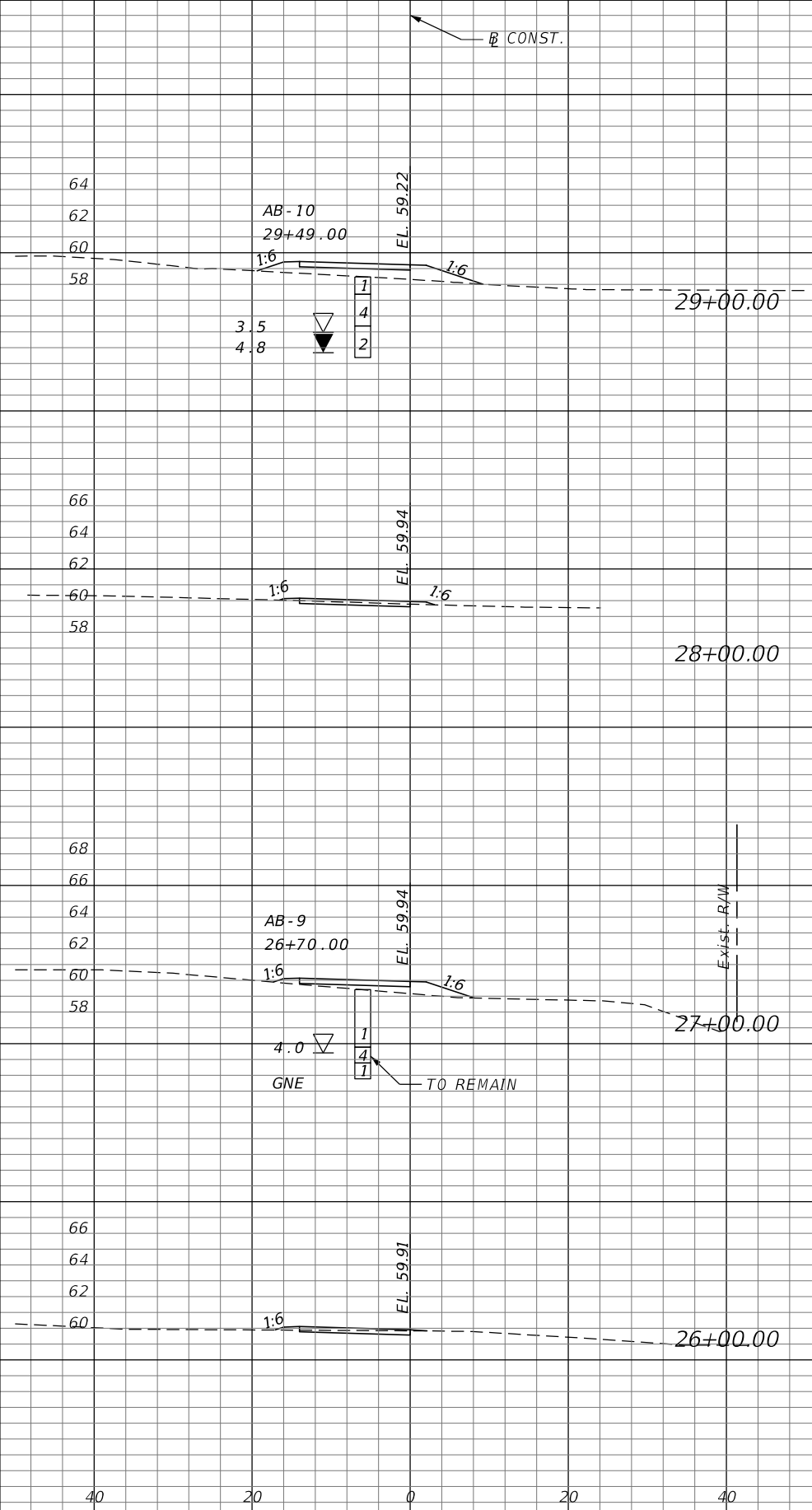
KCG
KELLY, COLLINS & GENTRY, INC.
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 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

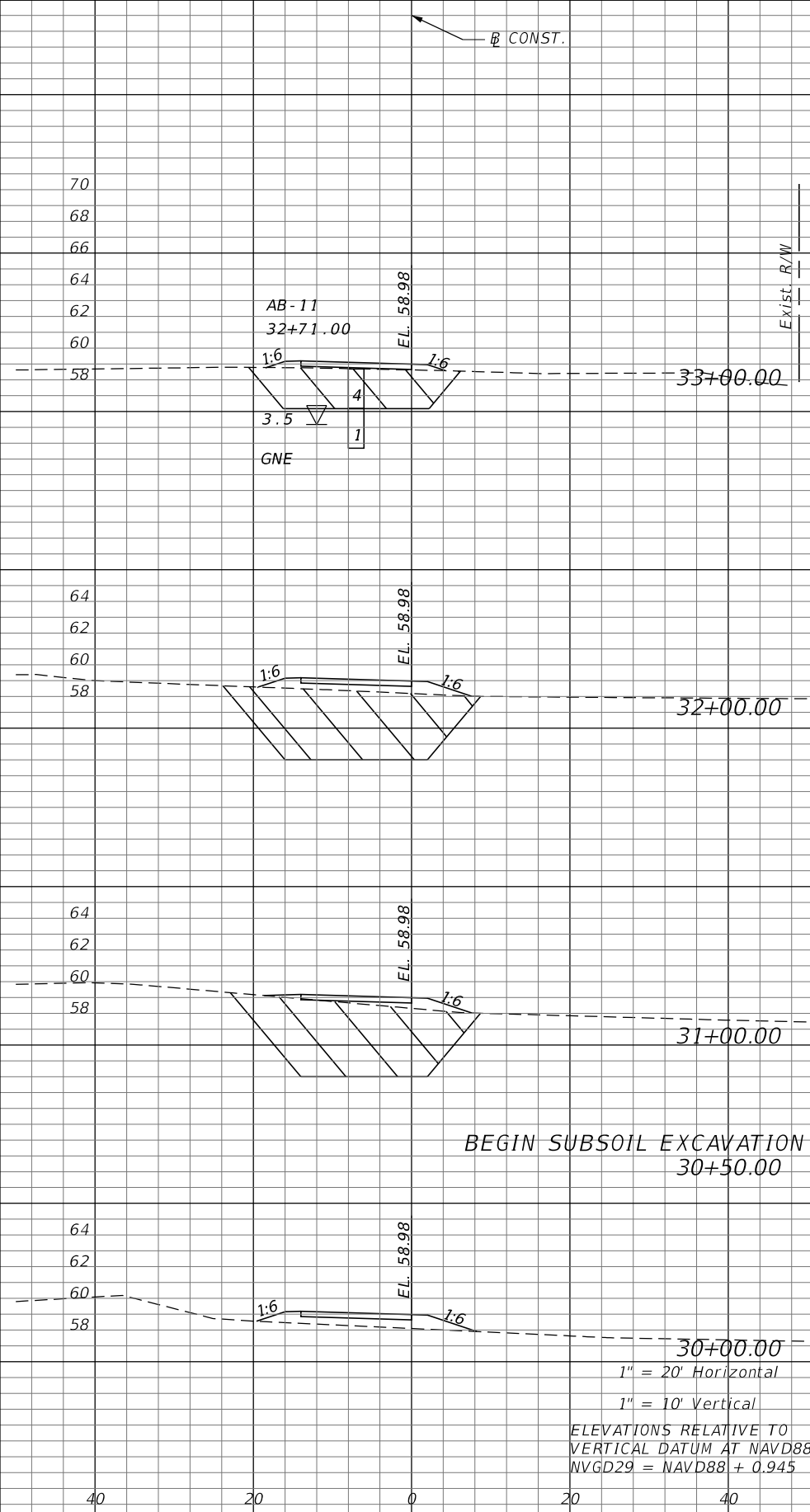
CROSS SECTIONS

SHEET NO.
 27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	4	15	30
0	0	2	4	1	19
0	0	0	6	9	19
0	0	3	40	1	18



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
57	309	0	0	60	337
110	406	0	0	122	439
109	0	0	0	115	439
0	0	0	0	14	54

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

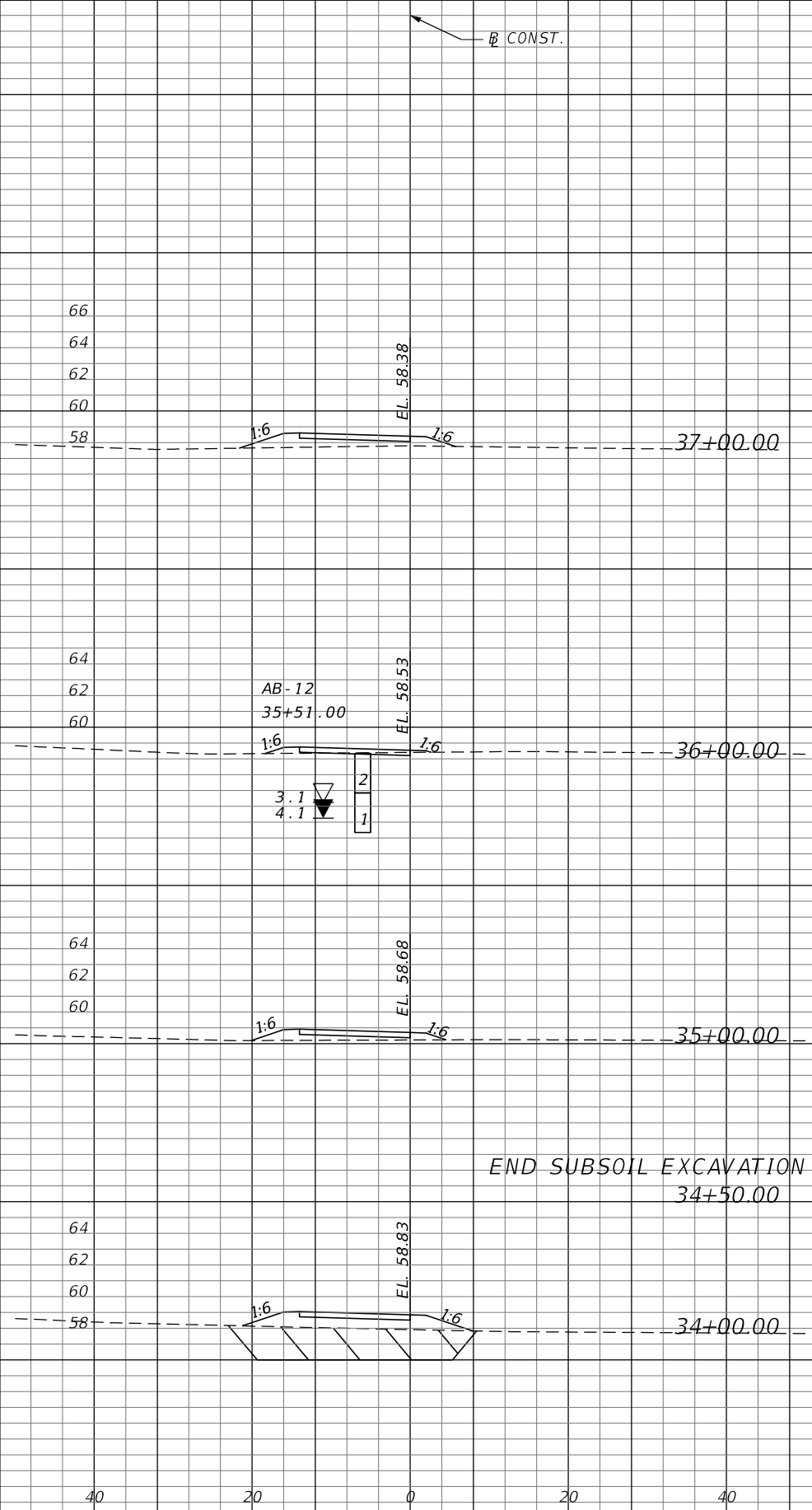
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

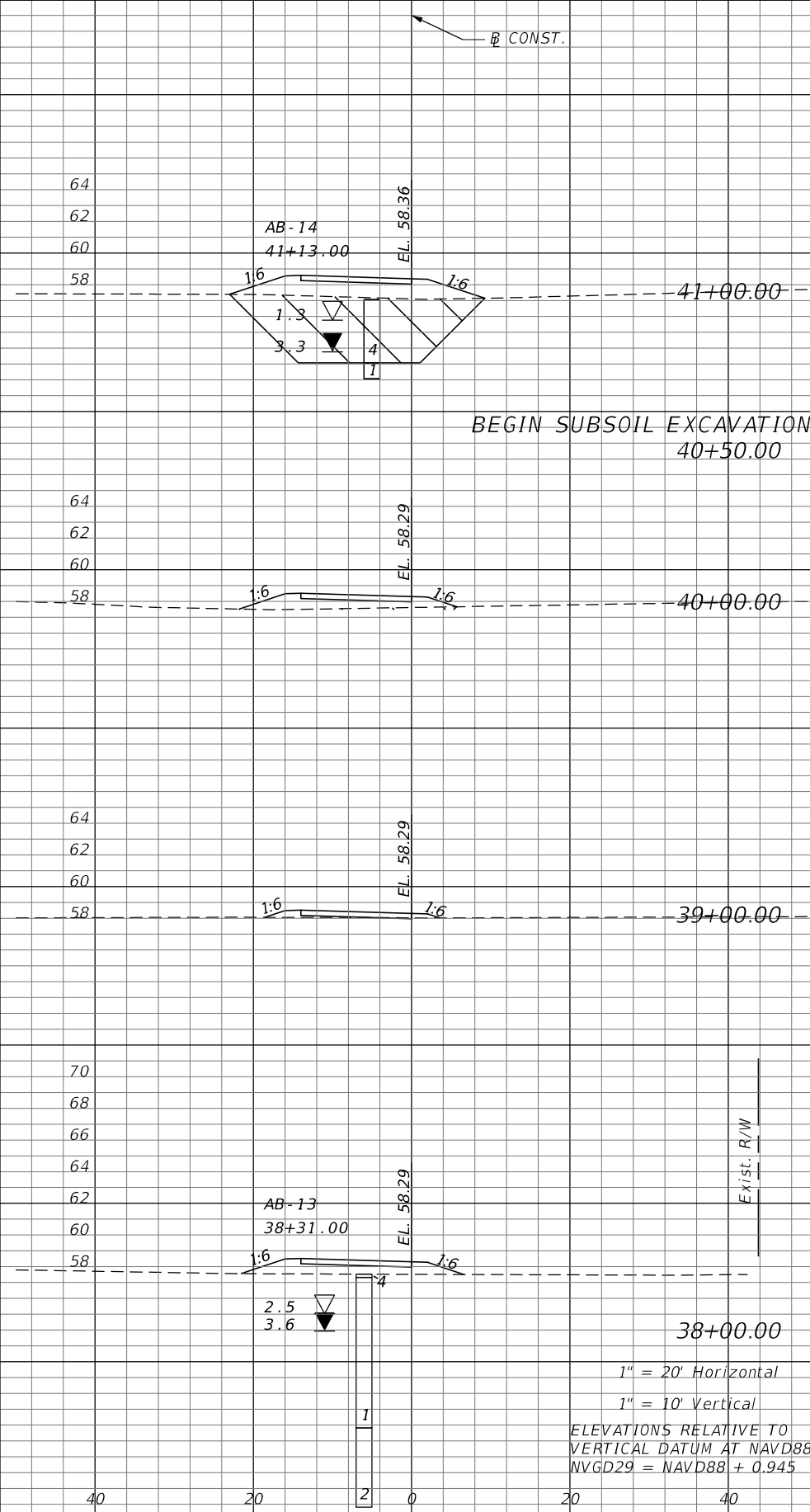
CROSS SECTIONS

SHEET NO.
 28

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	2	13	28
0	0	1	2	2	19
0	0	0	0	8	152
56	209	0	0	74	248



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
99	254	0	0	126	330
38	70	0	0	52	102
0	0	0	0	3	35
0	0	0	0	16	54

1" = 20' Horizontal
 1" = 10' Vertical
 ELEVATIONS RELATIVE TO
 VERTICAL DATUM AT NAVD88
 NAVD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

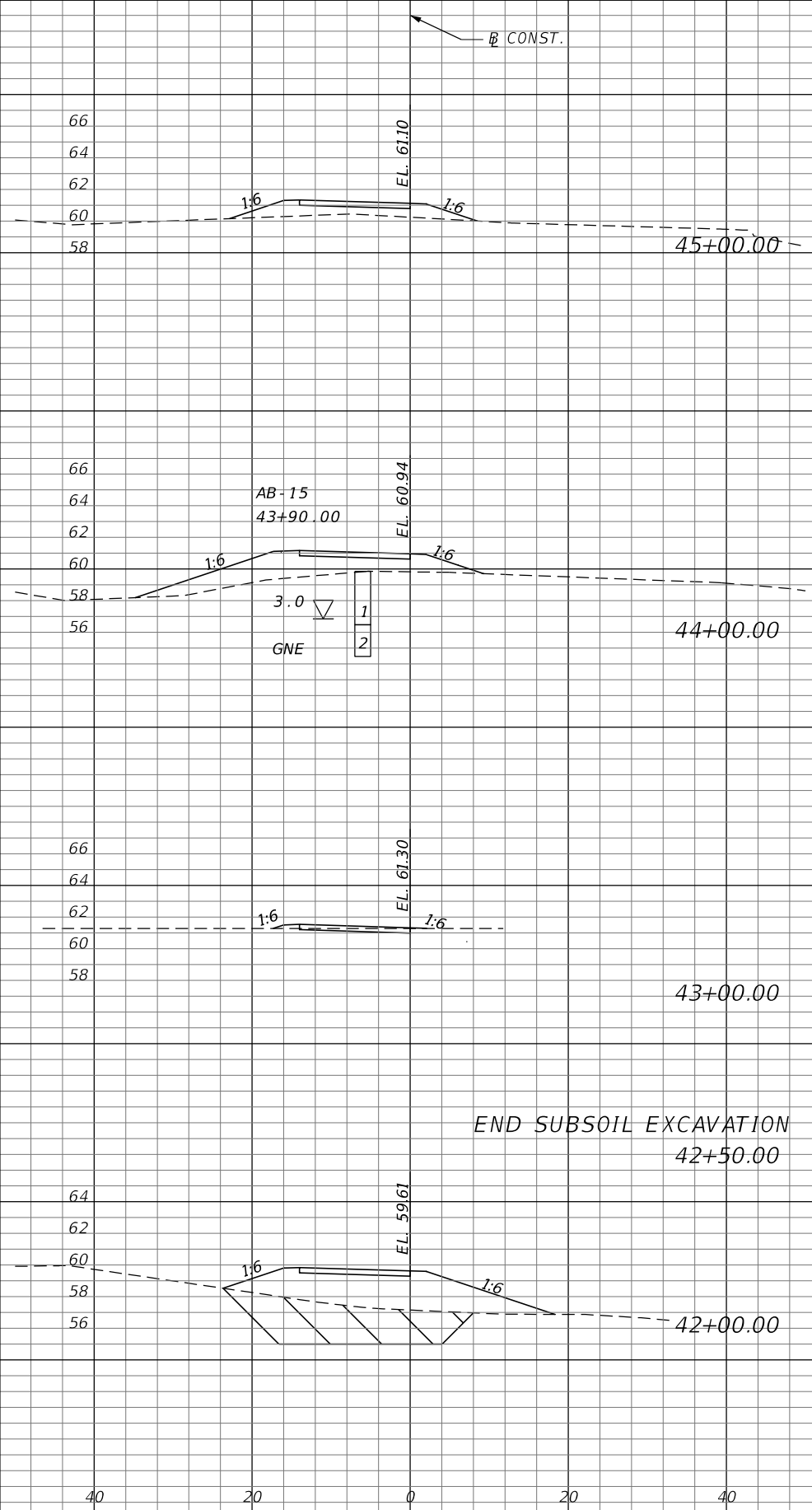
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

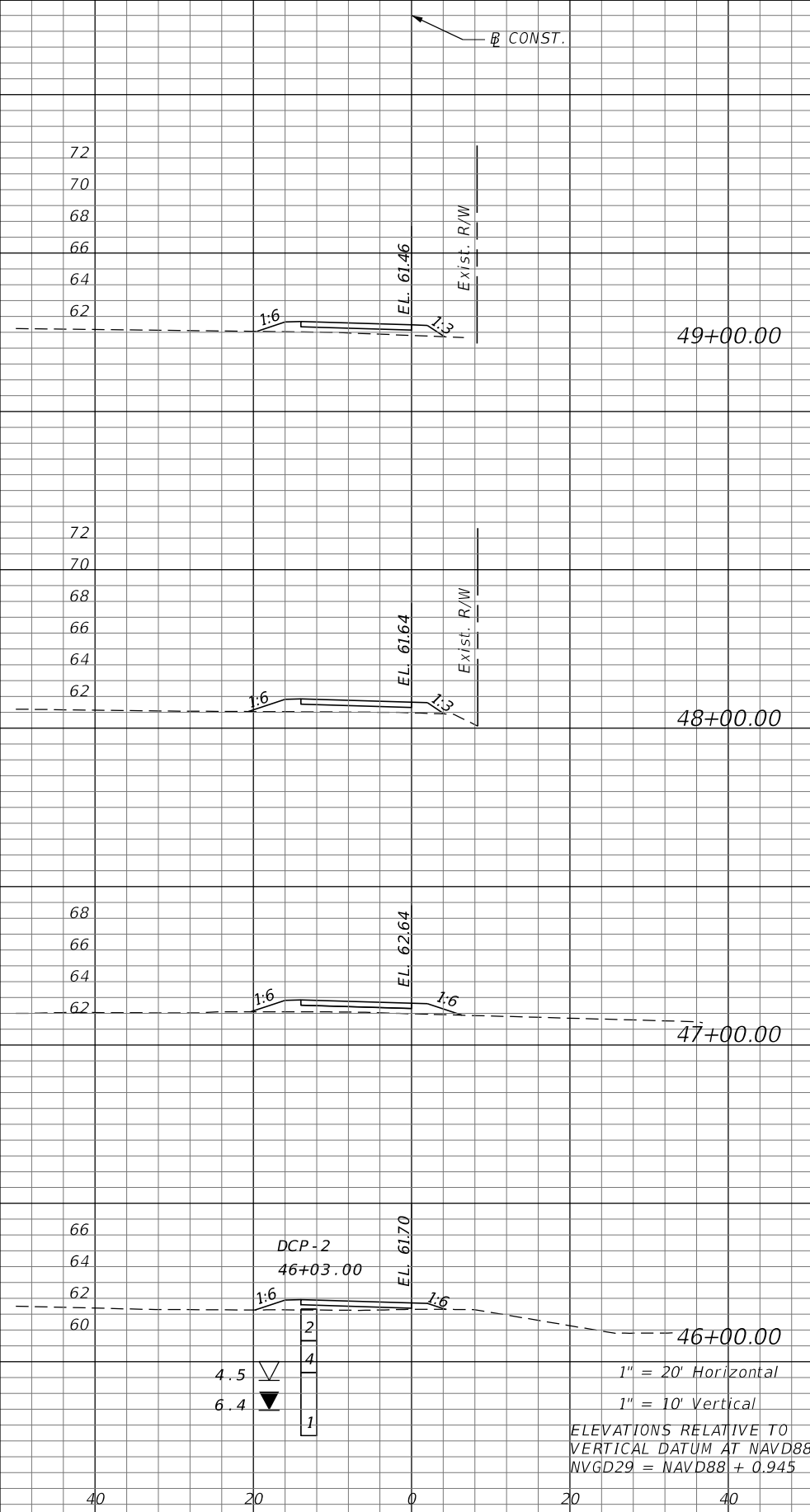
CROSS SECTIONS

SHEET NO.
 29

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	18	113
0	0	0	4	43	81
0	120	2	4	1	241
65	304	0	0	129	472



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	9	37
0	0	0	0	11	43
0	0	0	0	12	35
0	0	0	0	7	46

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

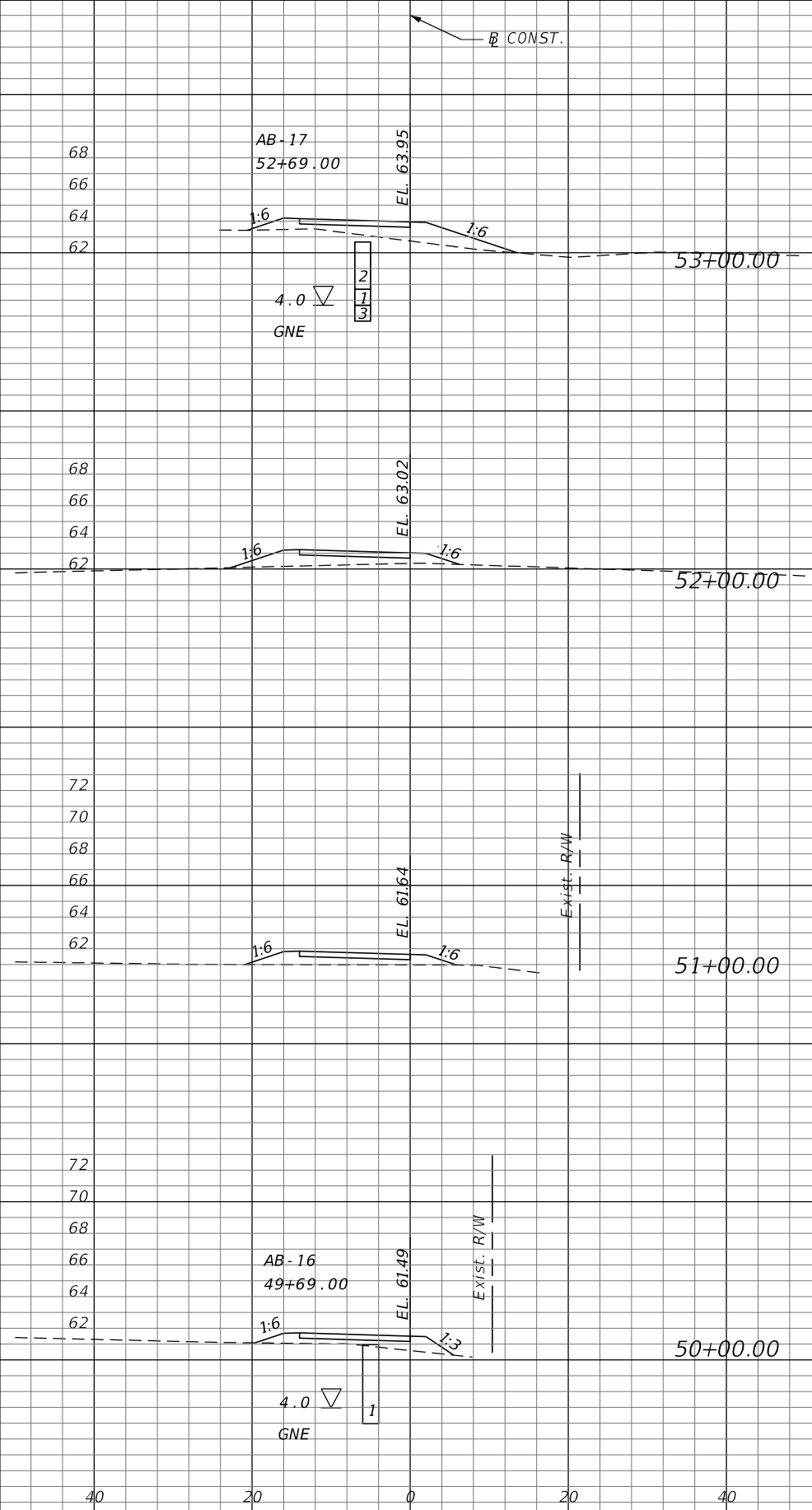
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

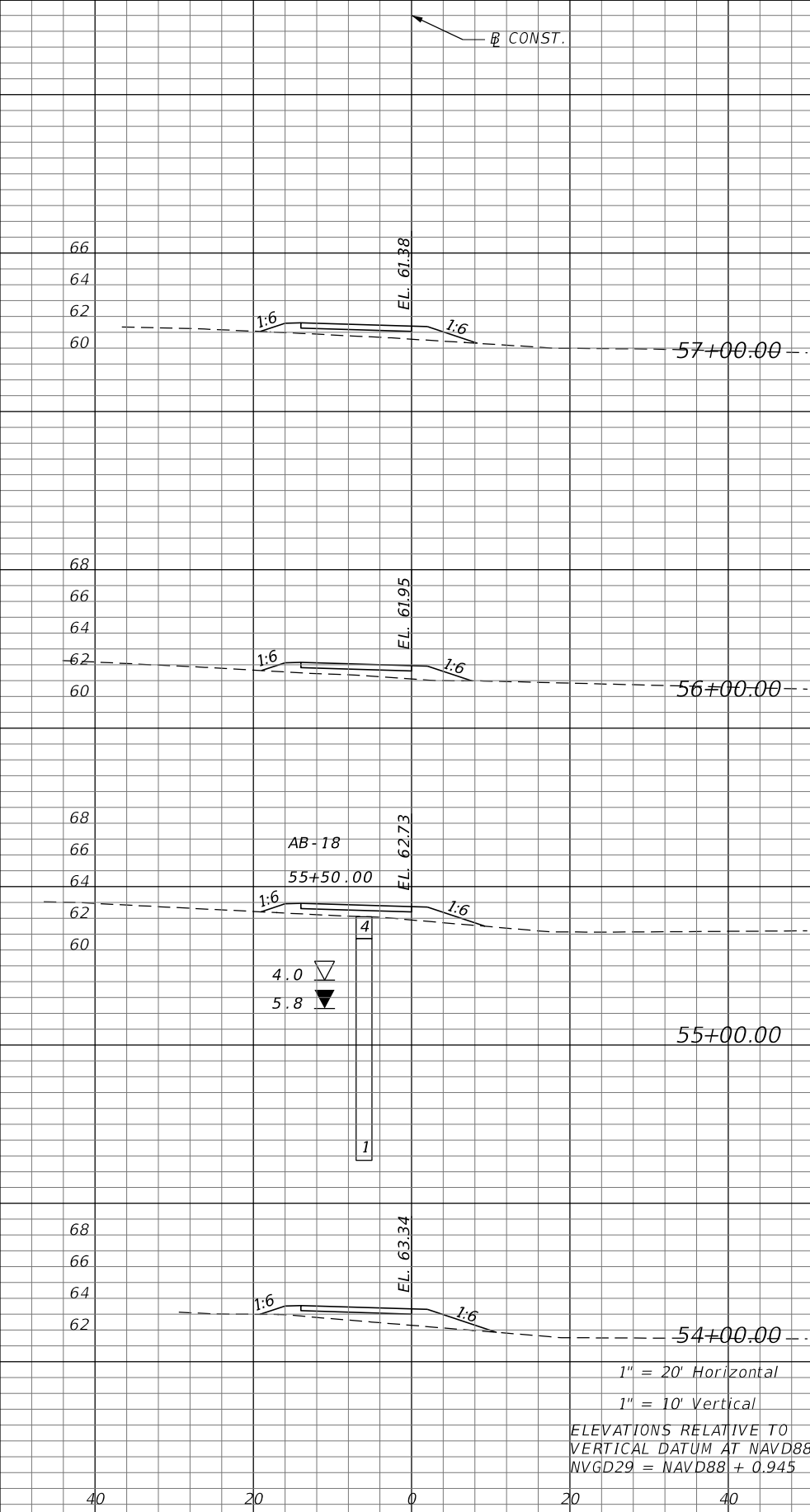
CROSS SECTIONS

SHEET NO.
 30

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	27	80
0	0	0	0	16	54
0	0	0	0	13	46
0	0	0	0	12	39



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	13	48
0	0	0	0	13	50
0	0	0	0	14	59
0	0	0	0	18	83

1" = 20' Horizontal
 1" = 10' Vertical
 ELEVATIONS RELATIVE TO
 VERTICAL DATUM AT NAVD88
 NAVD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

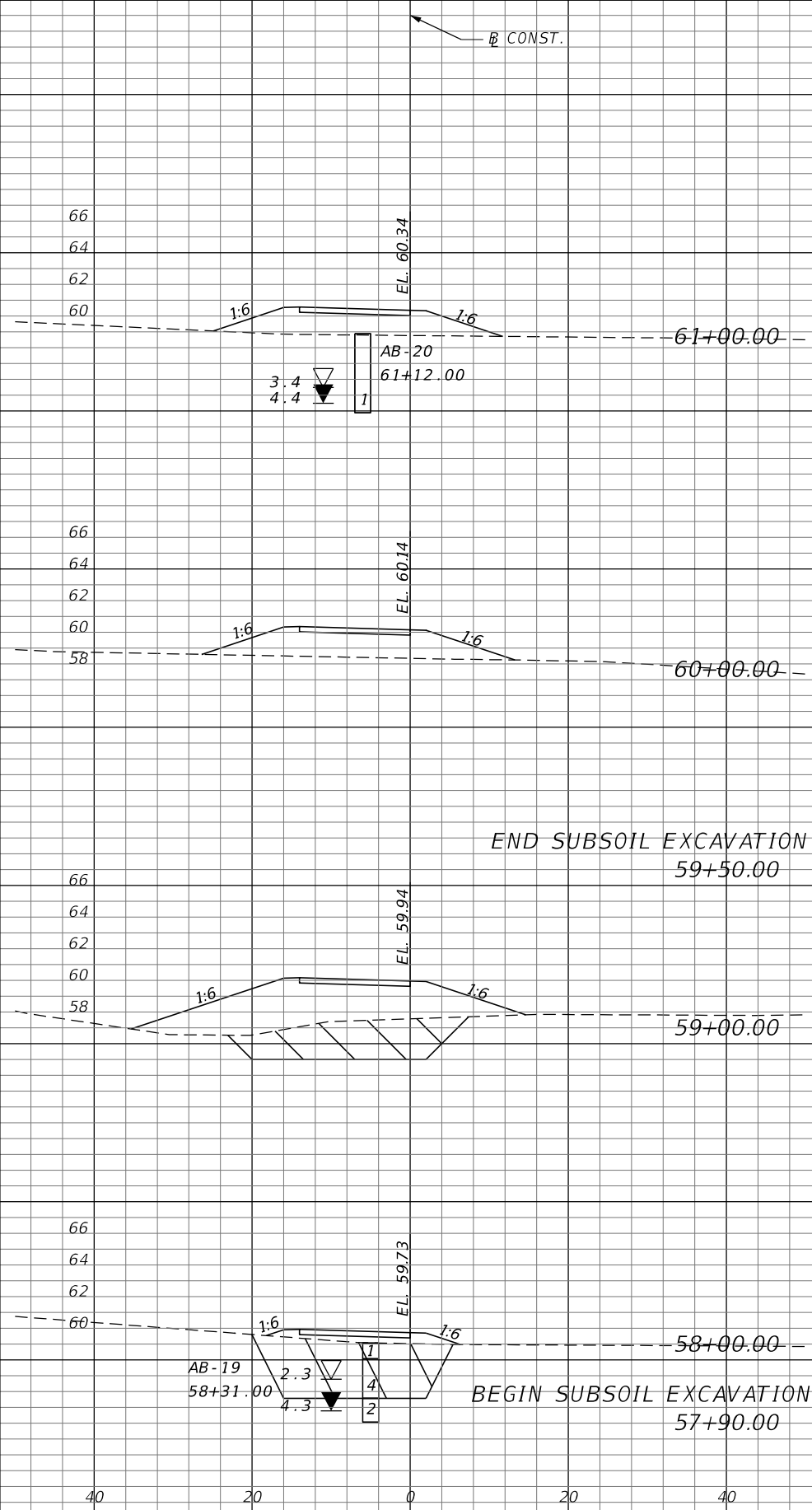
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 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

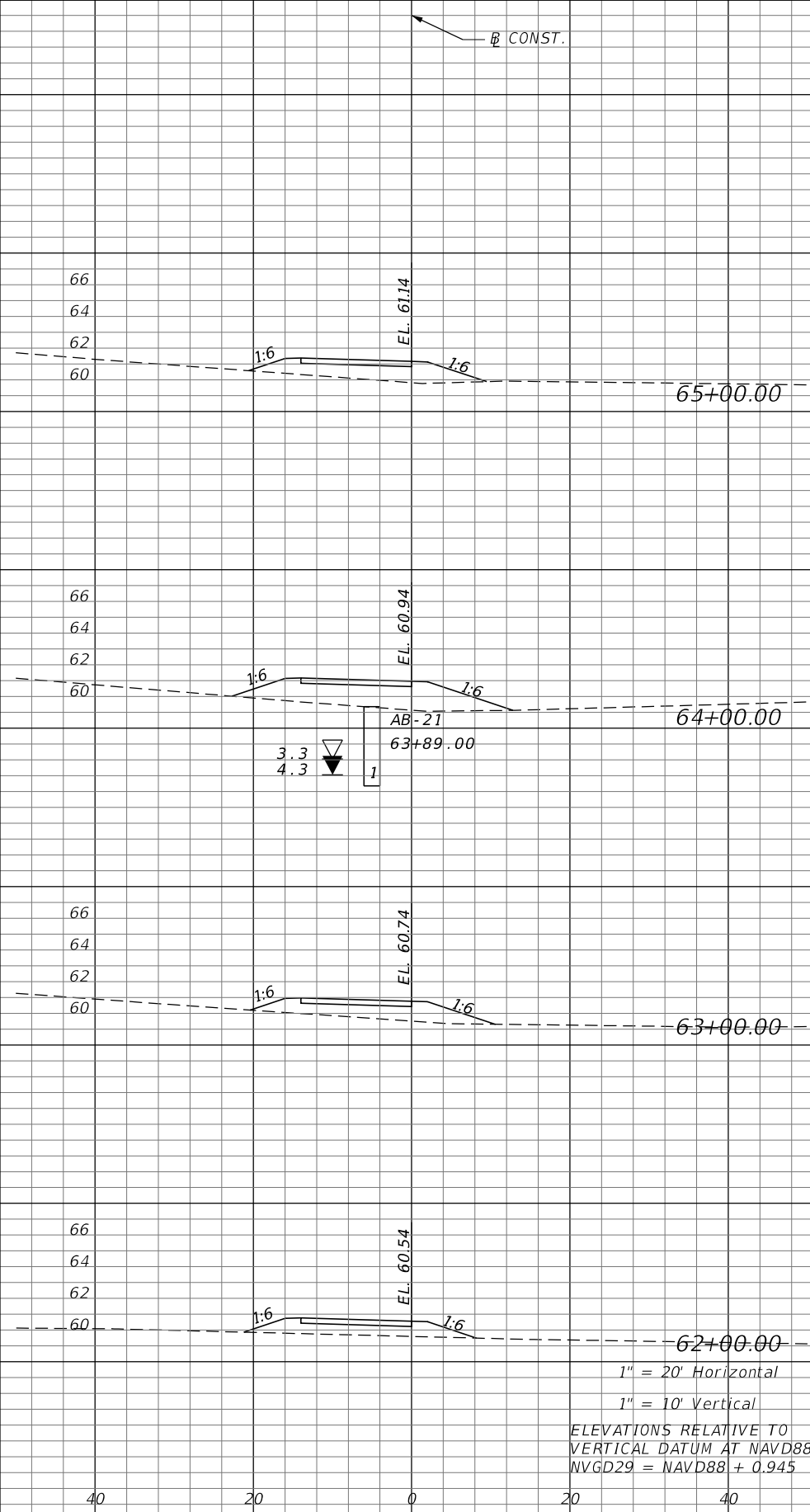
CROSS SECTIONS

SHEET NO.
 31

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	40	163
0	109	0	0	48	374
59	254	0	0	154	493
78	250	0	0	112	231



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	24	119
0	0	0	0	40	117
0	0	0	0	23	76
0	0	0	0	18	107

1" = 20' Horizontal
 1" = 10' Vertical
 ELEVATIONS RELATIVE TO
 VERTICAL DATUM AT NAVD88
 NVGD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

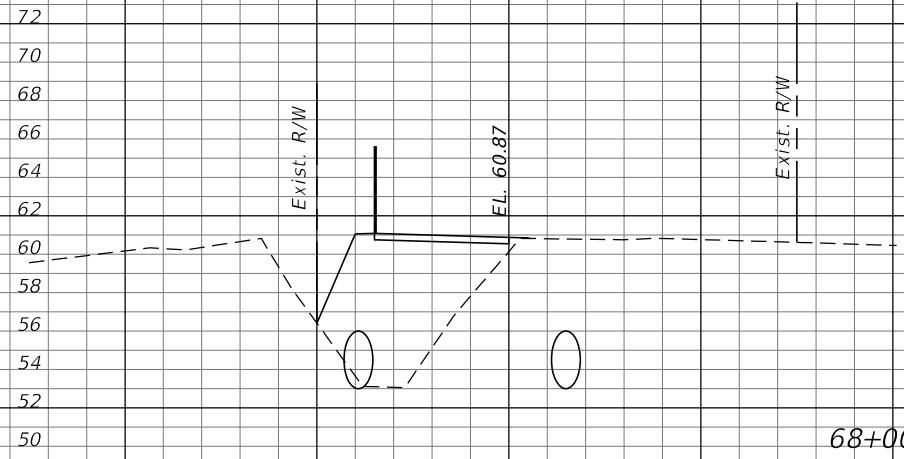
CROSS SECTIONS

SHEET NO.
 32

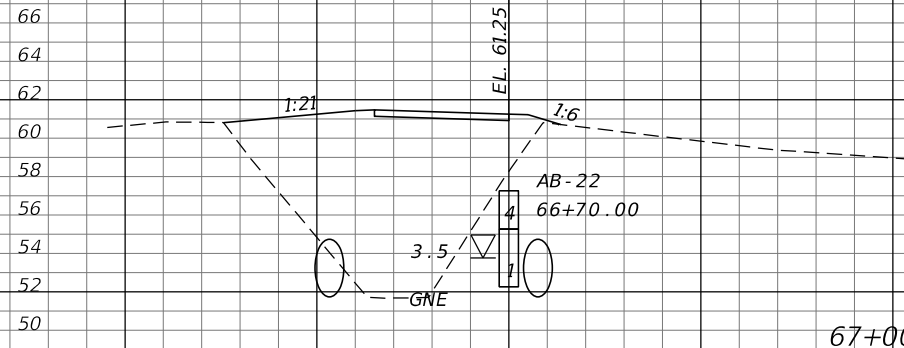
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Regular Exc. Embankment
A V A V

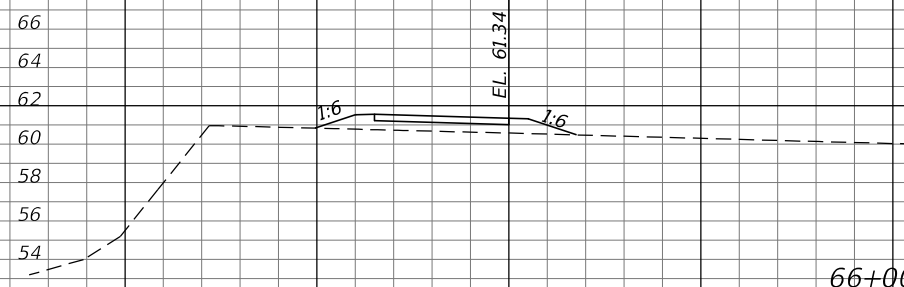
Regular Exc. Embankment
A V A V



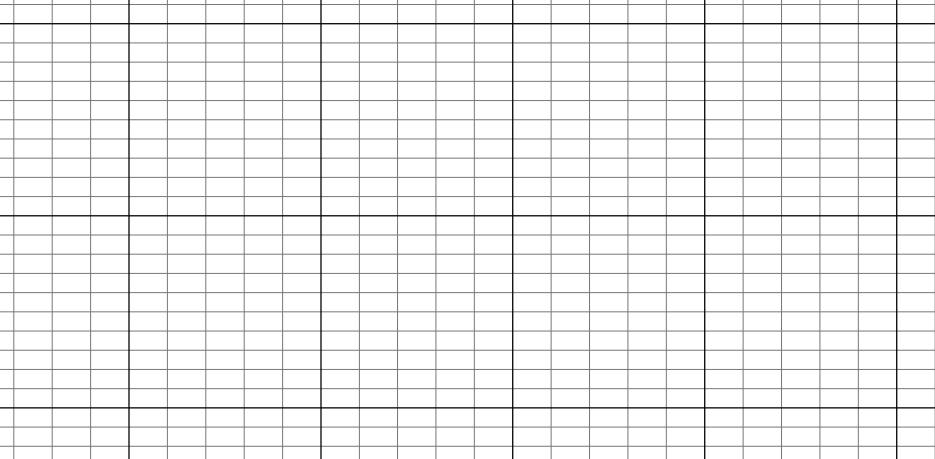
0 0 97 533



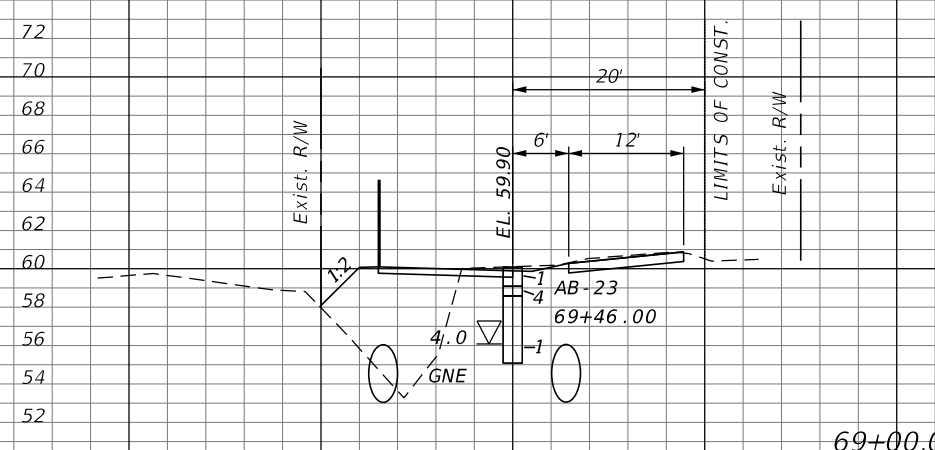
0 0 191 698



0 0 186 388



20 52 53 204



8 15 57 285

69+00.00
1" = 20' Horizontal
1" = 10' Vertical
ELEVATIONS RELATIVE TO
VERTICAL DATUM AT NAVD88
NVD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CONNECTOR TRAIL

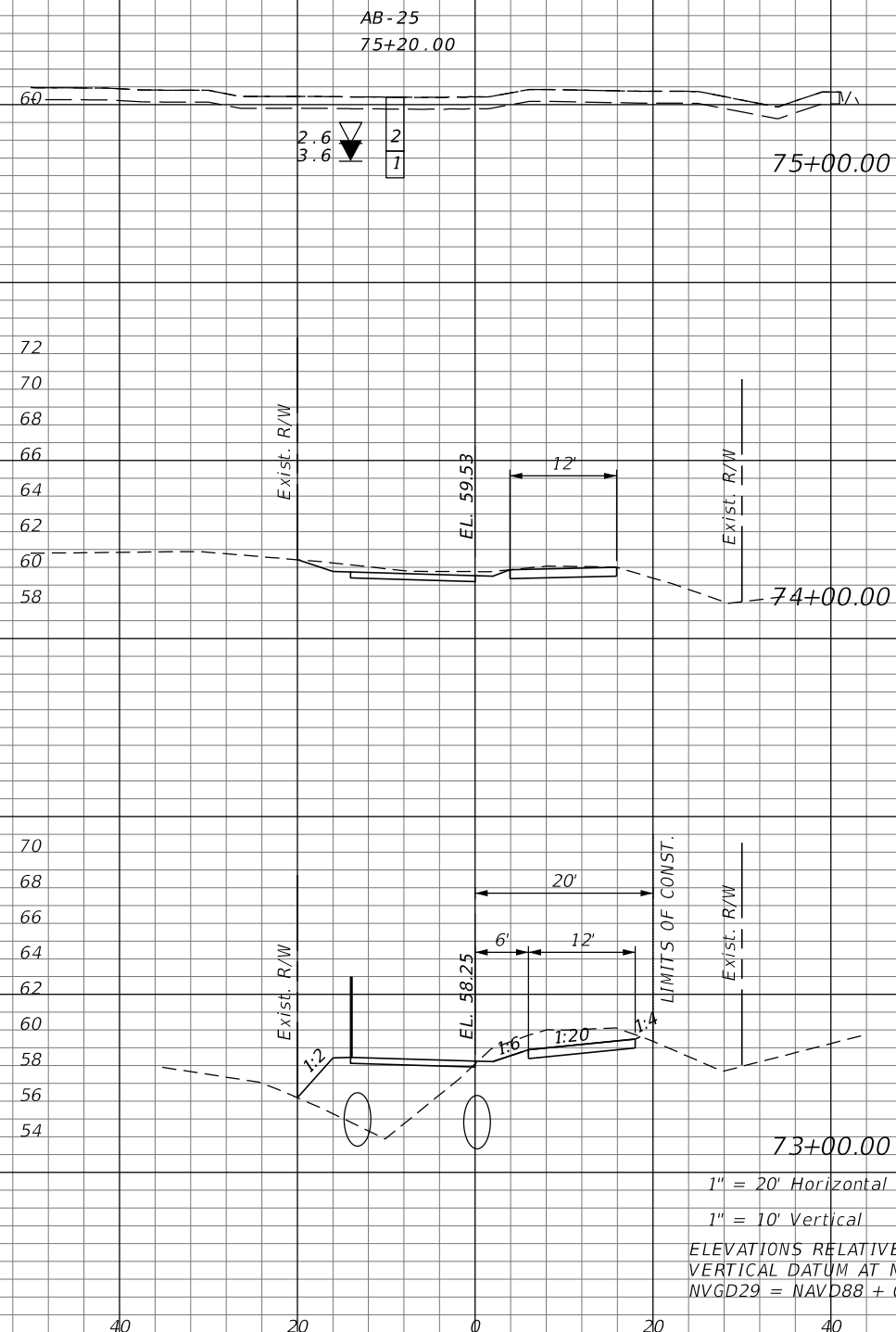
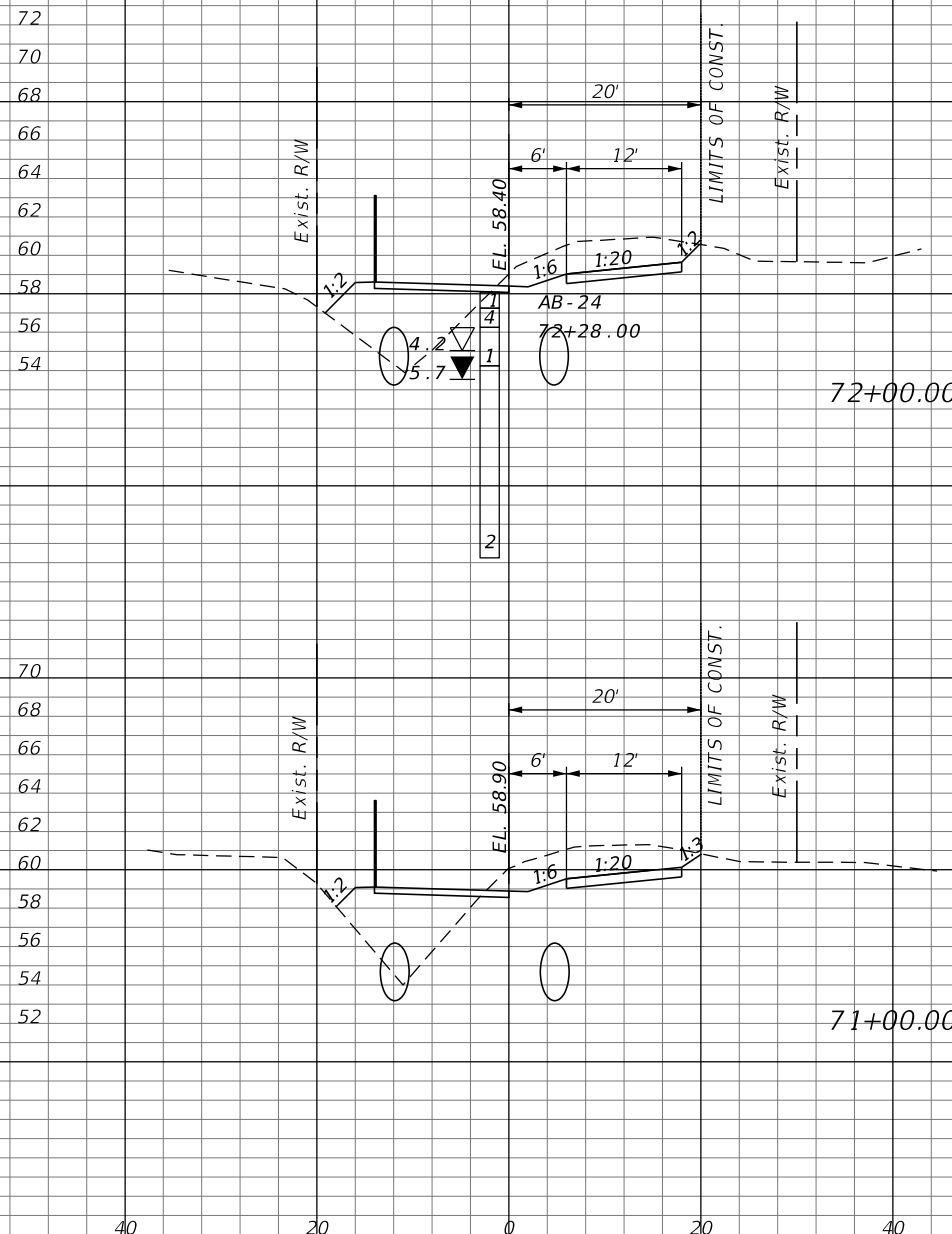
CROSS SECTIONS

SHEET NO.
33

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Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



30	115	43	150
32	96	38	169

0	19	0	0
10	50	0	89
17	87	48	169

1" = 20' Horizontal
1" = 10' Vertical
ELEVATIONS RELATIVE TO
VERTICAL DATUM AT NAVD88
NVD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
34

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Regular Exc. Embankment
 A V A V

Regular Exc. Embankment
 A V A V

EARTHWORK SUMMARY
 TOTALS:
 EXCAVATION = 782 CY
 EMBANKMENT = 14397 CY
 SUBSOIL EXC. = 3897 CY



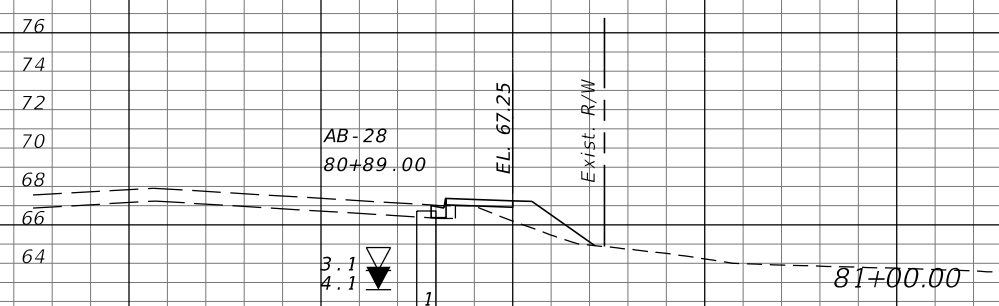
0 6 0 70



4 33 47 172



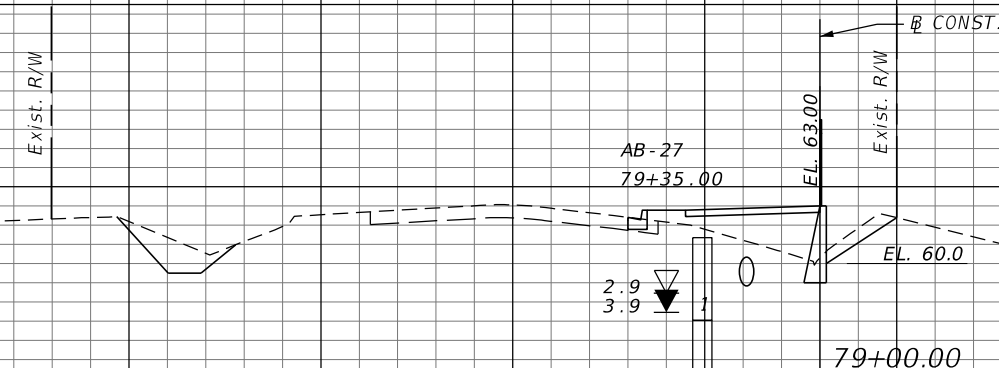
14 89 46 85



0 2 51 191



1 33 52 174



17 38 42 113

1" = 20' Horizontal
 1" = 10' Vertical
 ELEVATIONS RELATIVE TO
 VERTICAL DATUM AT NAVD88
 NAVD29 = NAVD88 + 0.945

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

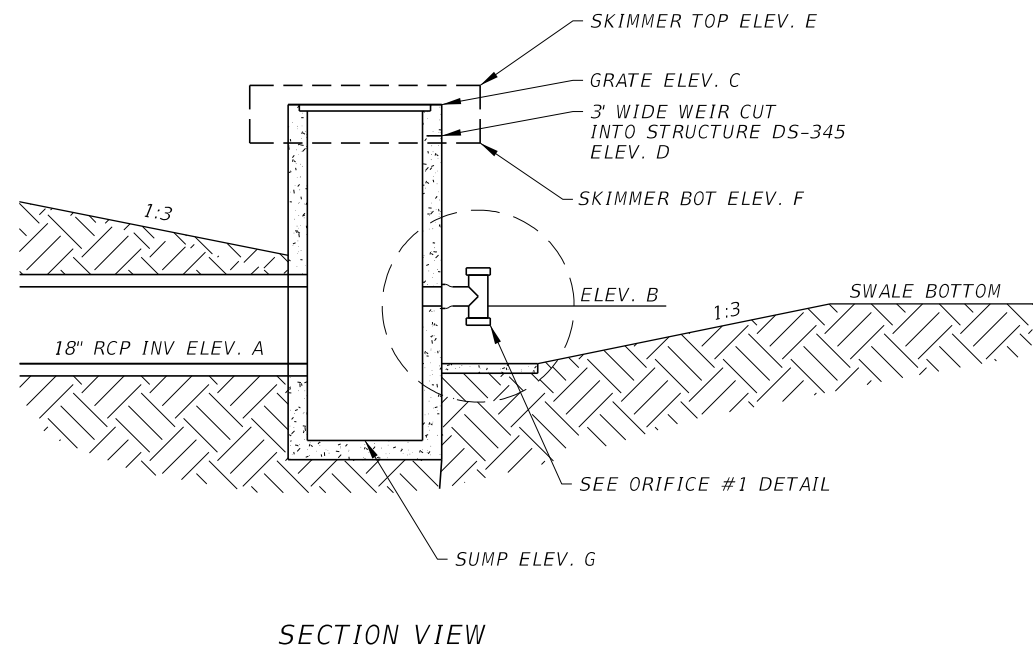
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

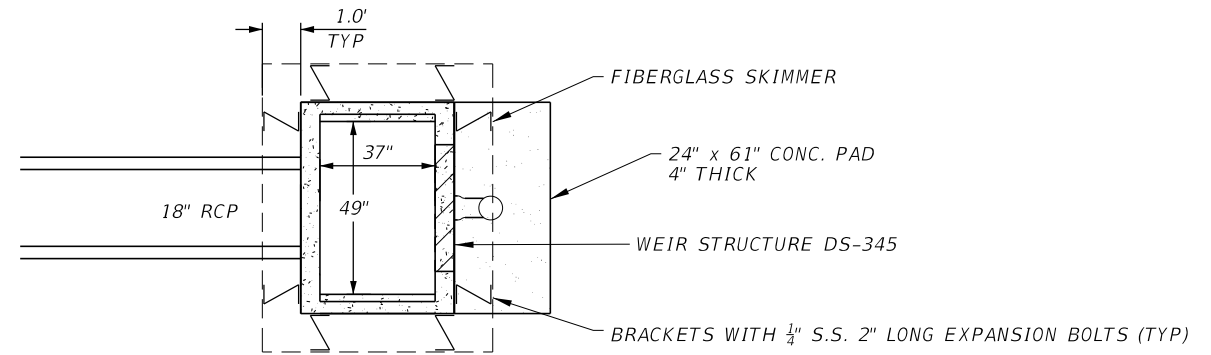
SHEET NO.
 35

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SECTION VIEW

Control Structure Detail Table							
Structure	Point						
	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F	Elev. G
DS-1	56.90	57.50	59.40	-	59.90	58.40	54.90
DS-345	58.00	58.00	60.75	60.00	61.25	59.50	56.00
DS-678	56.00	57.50	59.15	-	59.65	58.15	54.00

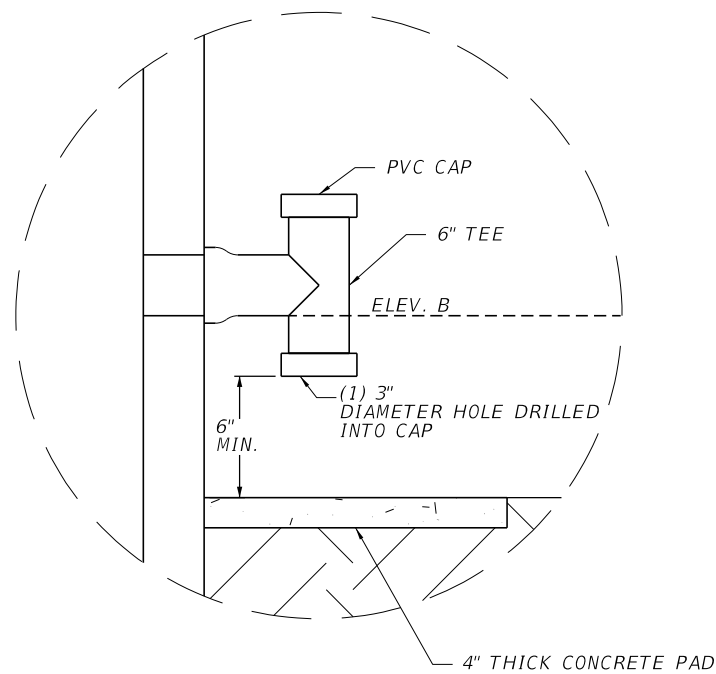


PLAN VIEW

MODIFIED FDOT TYPE 'D' INLET

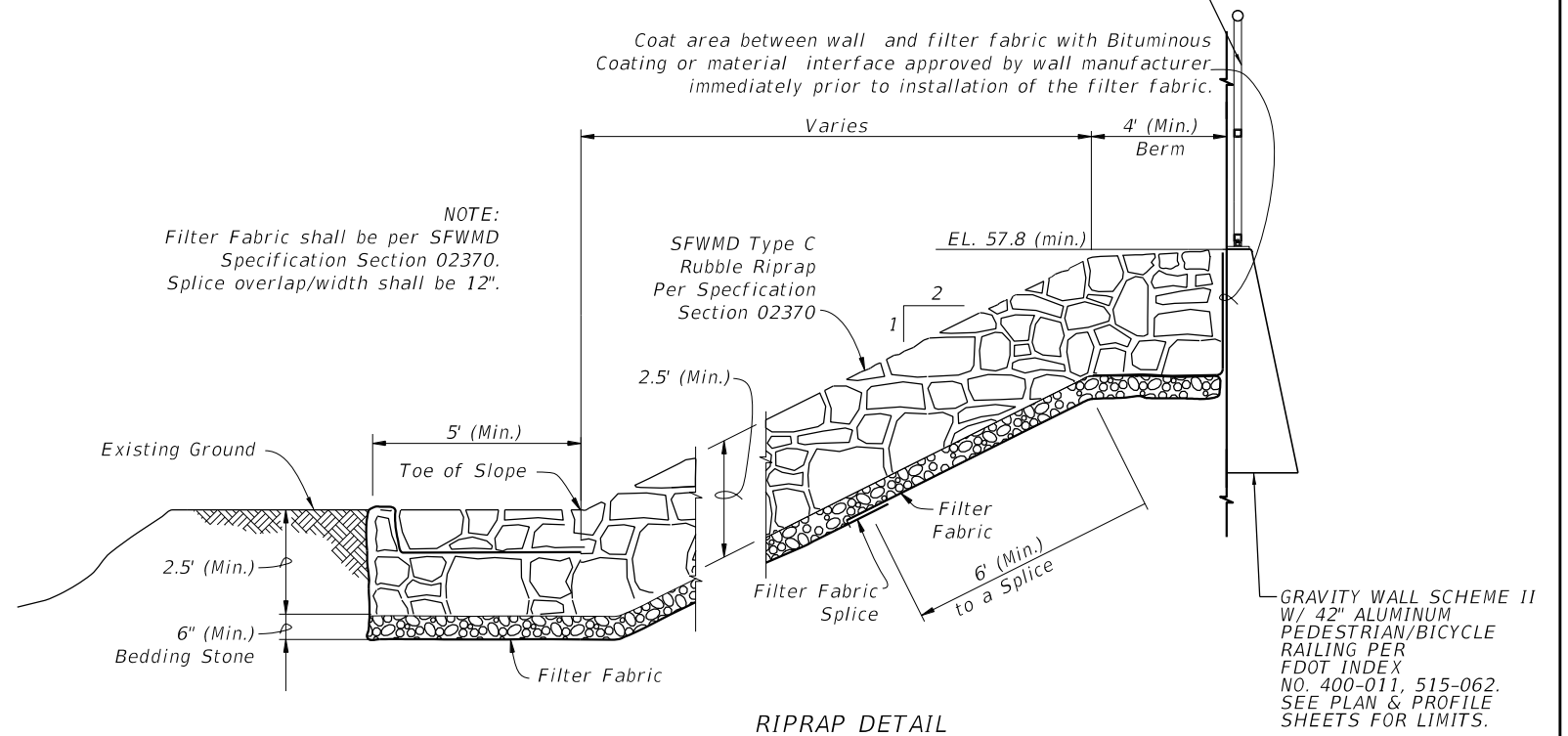
DS-1
 DS-345
 DS-678

SCALE: 1" = 5'



ORIFICE #1 DETAIL - 6" TEE

42" ALUMINUM PEDESTRIAN/BICYCLE RAILING PER FDOT INDEX NO. 515-062. SEE PLAN & PROFILE SHEETS FOR LOCATION.



RIPRAP DETAIL

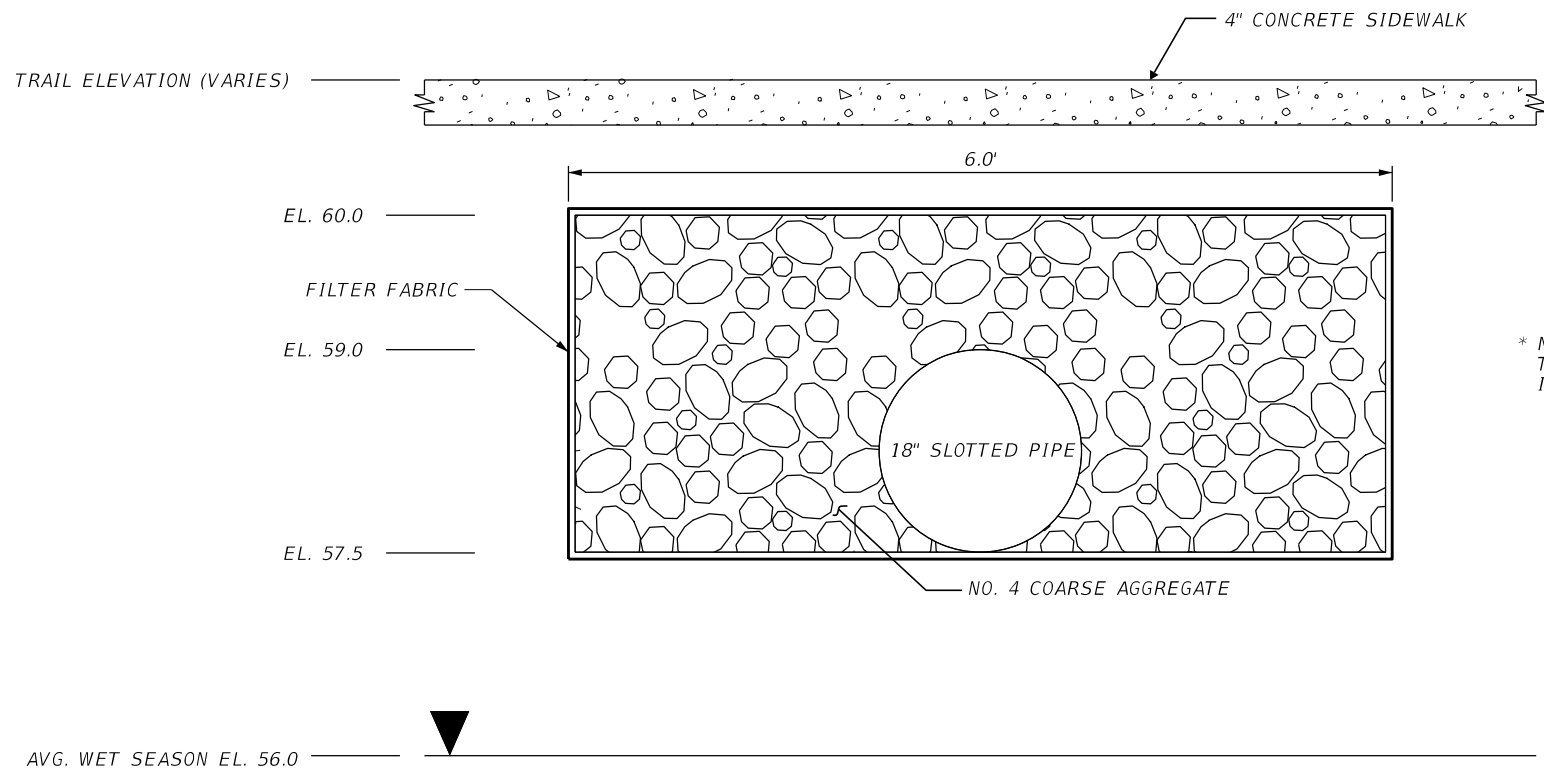
NOTE:
 Filter Fabric shall be per SFWMD Specification Section 02370. Splice overlap/width shall be 12".

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

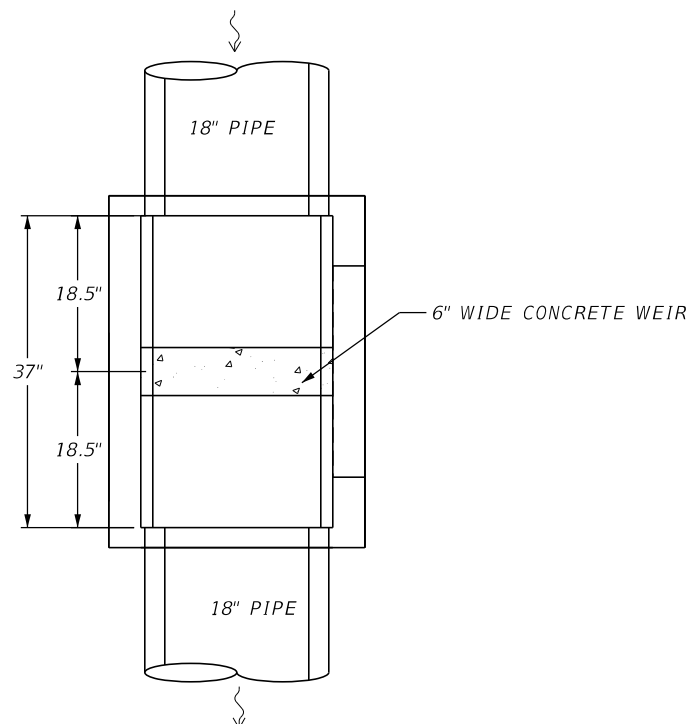
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

DRAINAGE DETAILS
 SHEET NO. 36



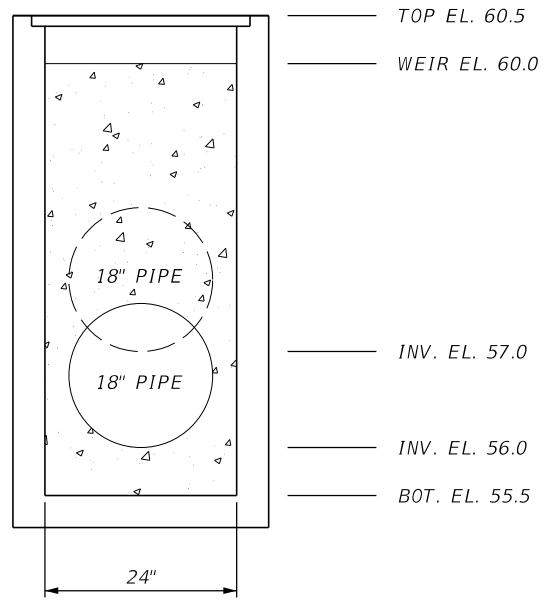
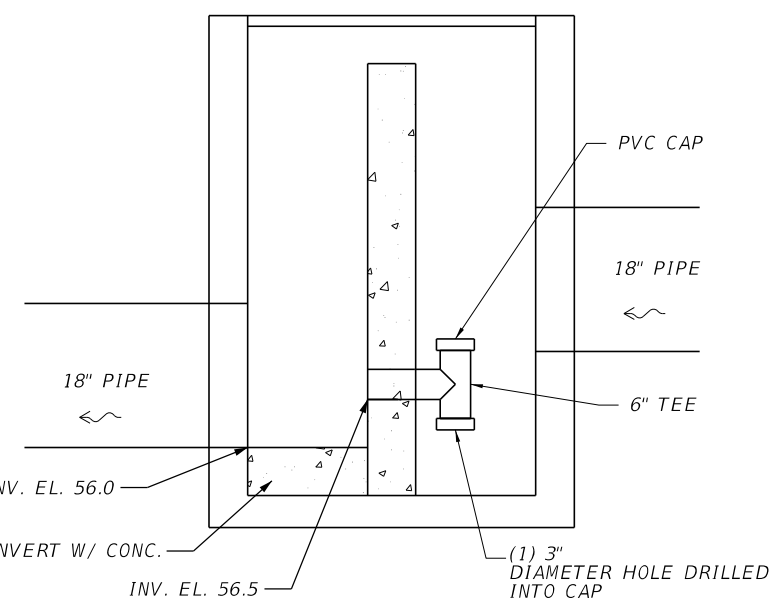
* NOTE: 6' WIDE EXFILTRATION TRENCH TO BE FIELD ADJUSTED HORIZONTALLY IN VICINITY OF GRAVITY WALL NEAR STA. 77+00



AVG. WET SEASON EL. 56.0

MIN. VOLUME = 1656 CF

EXFILTRATION TRENCH DETAIL SECTION VIEW



MODIFIED FDOT TYPE 'C' INLET S-111A

NOTES:

- EXFILTRATION TRENCH AND MEDIA TO EXCEED MOST STRINGENT REQUIREMENTS OF FDOT SPECIFICATION SECTIONS 443 AND 901-4.
- FILTER FABRIC SHALL BE TYPE D-2, SEE FDOT SPECIFICATIONS, SECTION 985. SPLICE OVERLAP/WIDTH SHALL BE 6".
- IF APPROVED ALTERNATE MANUFACTURER PRODUCT IS USED, THE FOLLOWING SHALL APPLY:
 - MANUFACTURER TO DESIGN SYSTEM WITHIN LIMITS OF THE PROVIDED FOOTPRINT AND CROSS SECTION TO MEET VOLUME REQUIRED.
 - MANUFACTURER TO DESIGN/SPECIFY SYSTEM TO HAVE A MIN. SERVICE LIFE OF 75 YEARS.
 - MANUFACTURER TO DESIGN/SPECIFY SYSTEM TO HAVE A CONTAINMENT SYSTEM FOR THE "FIRST FLUSH" SEDIMENT. CONTAINMENT SYSTEM TO BE SIZED TO REQUIRE CLEANOUT MIN. 15 YEARS AT 3 INCHES OF SEDIMENT ACCUMULATION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

DRAINAGE DETAILS
SHEET NO. 36A

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DATE OF SURVEY: DECEMBER 2020
 SURVEY MADE BY: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
 SUBMITTED BY: DANIEL C. STANFILL, P.E.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
CROSS SECTION OF TRAIL SOIL SURVEY
KISSIMMEE-ST. CLOUD CONNECTOR TRAIL

TOWNSHIP: 25, 26 SOUTH
 RANGE: 30 EAST
 SECTIONS: 4, 33
 COUNTY: OSCEOLA

TRAIL SEGMENT APPROXIMATE BEGIN STATION: 4+00 APPROXIMATE END STATION: 81+16

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	0	-	0	-	1(FULL)	100	100	98	69	3	0	-	-	A-3	LIGHT BROWN TO BROWN TO GRAY FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL	0	-	-	-	-
2	0	-	0	-	4(FULL)	98-100	97-100	95-98	54-77	10-19	0	-	-	A-2-4	LIGHT BROWN TO DARK BROWN TO LIGHT GRAY FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE TO LITTLE LIMEROCK	1	9,900	30	<6	6.2
3	0	-	2	20-26	1(FULL) 1(-200)	100	99	97	82	21-31	2	30-36	13-23	A-2-6	BROWN CLAYEY FINE SAND	0	-	-	-	-
4	6	7.1-33	6	43-64	5(FULL) 1(-200)	100	98-100	93-99	66-82	28-75	0	-	-	A-8	DARK BROWN MUCKY FINE SAND TO SANDY MUCK TO MUCK	0	-	-	-	-

NOTES

- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FOR FURTHER DETAILS SEE SECTION 120-3 OF THE FDOT DESIGN SPECIFICATIONS.
- GROUNDWATER LEVEL SHOWN AS ▼ WHERE ENCOUNTERED AT TIME OF SURVEY. ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS ▽. "GNE" DENOTES GROUNDWATER NOT ENCOUNTERED.
- REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN TRAIL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE FDOT STANDARD PLANS, INDEX 120-002 UNLESS OTHERWISE SHOWN ON THE PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, INDEX 120-001.
- SOIL ANALYSIS INCLUDES DATA FROM TRAIL AUGER BORINGS ONLY.
- SOIL PARAMETERS NOT TESTED DENOTED AS "-" ABOVE.
- STRATA 1 AND 2 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH THE FDOT STANDARD PLANS, INDEX 120-001.
- STRATUM NO. 3 SHALL BE TREATED AS PLASTIC (P) MATERIAL IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
- STRATUM NO. 4 SHALL BE TREATED AS MUCK (M) MATERIAL IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
- STRATUM NO. 2 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.

REVISIONS				GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 Michigan Avenue, Suite D Kissimmee, FL 34744-1933 T 407-483-1212 F 407-932-2912 DANIEL C. STANFILL, P.E. 42763	OSCEOLA COUNTY KISSIMMEE-ST. CLOUD CONNECTOR TRAIL	TRAIL SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				GR-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1.0 SITE DESCRIPTION

1.1 CONSTRUCTION ACTIVITIES

Activities include:
 Construction of paved recreational trail.
 Construction of drainage structures.
 Earthwork
 Sodding

1.2 PROJECT LIMITS

The project located along the St. Cloud side of the C-31 Canal, between Neptune Road and Lakeshore Boulevard. The project begins near Partin Triangle Park and extends north along the south side of the C-31 Canal. The trail will cross under US 192 and proceed to the north end of the Blackberry Creek Community. The trail will then turn east toward Brown Chapel Road. At Brown Chapel Road, the trail will turn north toward East Lake Tohopekaliga, ending at Lakeshore Boulevard.

1.3 PROJECT DESCRIPTION

This project includes the construction of a new 14' wide paved recreational trail. The work will include earthwork, sodding, and drainage improvements.

1.4 MAJOR SOIL DISTURBING ACTIVITIES

Clearing and grubbing of proposed construction limits.
 Earthwork to install new pavement.
 Earthwork to install drainage.

1.5 TOTAL PROJECT AREA

4.54 Acres

1.6 TOTAL AREA TO BE DISTURBED

4.54 Acres

1.7 RUNOFF DATA

PRE CONSTRUCTION C-VALUE = 0.35
 POST CONSTRUCTION C-VALUE = 0.42
 DURING CONSTRUCTION C-VALUE = 0.30-0.42

1.8 SITE MAP

For site map: See Key Sheet located in the construction plans.

1.9 RECEIVING WATERS / WETLAND AREAS

Receiving waters are Lake Tohopekaliga.

Project outfalls via existing stormwater ponds and cross drainage flow ways:
 C-31 Canal: 28°15' 39.6" N, 81°19' 01.7" W

2.1 NARRATIVE

During the construction operations. The control measures identified in section 2.2 will be used to prevent erosion and sedimentation.

Clearing and grubbing operations shall be controlled so as to minimize unprotected erodible areas exposed to weather. Areas outside the limits of construction shall not be disturbed.

Concrete truck washout areas shall be provided as identified in the contract documents.

New and existing structures will be protected from siltation during construction. The Contractor shall develop a detailed Erosion and Sediment Control Plan and submit for review. The plan will include:

- The construction project schedule with erosion and sediment control installation and maintenance tied to specific dates or construction activities.
- Modifications to the SWPPP and Erosion Control Plans due to the Contractor's proposed construction means, methods and phasing. The Contractor's Erosion Control Plan will be utilized as the first formal update to the SWPPP.
- Contractor's representative should be a SWPPP certified Inspector and certificate should also be submitted. This person could also be responsible for coordination of maintenance, not the actual work itself. Person should be available for contact on a 24-hour basis.

The Contractor is advised that the contract drawings only indicate erosion, sediment, and turbidity controls at locations determined in the design process. However, the Contractor is required to update the SWPPP to reflect any additional controls necessary to prevent the possibility of silting any adjacent lowland parcel, receiving water, or otherwise violating State and Federal permit requirements. The Contractor is also required to modify the plan or materials to adapt to seasonal variations and supply contract time schedules for the implementation of each submittal.

The Contractor shall be responsible for:

- Submittal of notice of intent (NOI) and associated application fee to the FDEP at least 2 days before performing soil disturbing activities in accordance with the generic permit for stormwater discharge from large and small construction activities (CGP).
- Erosion and sediment control measures are to be placed prior to, or as the first step in construction. Sediment control devices will be employed as a perimeter defense against any transportation of silt beyond the construction limits.
- Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable, but in no case after more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. All surfaces that will be exposed for fourteen (14) days or more shall be vegetated with temporary or permanent cover.
- Permanent soil erosion control measures for all slopes, channels, ditches or any disturbed land areas shall be completed immediately after final grading. When it is not possible to permanently protect a disturbed area immediately after grading operation, temporary erosion control measures shall be installed. All temporary protection shall be maintained until permanent measures are in place and established.
- Submittal of notice of termination (NOT) to the FDEP within 14 days of final stabilization of the site in accordance with the CGP.

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY		SHEET NO. 37
DATE	DESCRIPTION	DATE	DESCRIPTION		STORMWATER POLLUTION PREVENTION PLAN		
				KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			

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2.2 EROSION AND SEDIMENT CONTROLS

2.2.1 STABILIZATION PRACTICES

- Temporary sodding
- Temporary grassing
- Temporary mulching
- Artificial covering
- Permanent planting, sodding or seeding
- Buffer zones
- Preservation of natural resources

2.2.2 STRUCTURAL PRACTICES

- Sand bagging
- Silt fences
- Synthetic Bales
- Berms
- Diversion, interceptor or perimeter ditches
- Pipe slope drains
- Flumes
- Rock bedding at construction exit
- Timber bedding at construction exit
- Ditch liner
- Sediment traps
- Sediment basins
- Storm inlet sediment traps
- Stone outlet structures
- Curb and gutters
- Storm sewers
- Velocity control devices
- Turbidity barriers
- Rip rap

2.3 DESCRIPTION OF STORMWATER MANAGEMENT

The trail will have runoff directed into the existing stormwater system. The existing ditch on the north side of Blackberry Cir. will be replaced with pipe culverts and ditch bottom inlets. Curb inlets will be placed along Brown Chapel Road.

2.4 OTHER CONTROLS

2.4.1 WASTE DISPOSAL

Solid waste must be disposed of at an approved landfill. All fertilizer, hydrocarbon or other chemical containers shall be disposed of by the Contractor according to EPA's standard practice as detailed by the manufacturer. This section is to be developed as part of the Contractor's Erosion Control Plan.

2.4.2 OFFSITE VEHICLE TRACKING

- Haul roads dampened for dust control
- Loaded haul trucks to be covered with tarpaulin
- Excess dirt removed from road daily
- Stabilized construction entrance
- Concrete truck washdown areas

This section is to be developed as part of the Contractor's erosion control plan.

2.4.3 SANITARY WASTE

Self-contained temporary restroom facilities are to be provided and maintained by a licensed Contractor in accordance with local, state and federal regulations. This section to be developed as part of the Contractor's Erosion Control Plans.

2.4.4 PESTICIDES AND FERTILIZERS

Pesticides and fertilizers shall be controlled according to Section 982 of the Standard Specifications for Road and Bridge Construction and in accordance with the manufacturer's recommendations. Fertilizer is to be placed on all permanent sodding. No fertilizer is to be spread when wind speed exceeds 10 mph. This section to be developed as part of the Contractor's Erosion Control Plans.

2.4.5 NON-STORMWATER DISCHARGE AND SPILL REPORTING

Hazardous waste: when a Contractor encounters a spill, construction will stop and work will not resume until directed by the Engineer. All spills must be reported to the Owner and potentially to the FDEP. Disposition of the hazardous waste will be made in accordance with requirements and regulations of any local, state or federal agency having jurisdiction. If contaminated groundwater is encountered, the Engineer is to be contacted immediately.

2.5 APPROVED STATE & LOCAL PLANS OR PERMITS

SFWMD Permit:

FDEP Generic permit for storm water discharge from large and small construction activities: Contractor to submit NOI

3.0 MAINTENANCE

The Contractor shall be responsible for maintaining all pollution prevention controls. Daily inspections shall be made by the Contractor to determine the effectiveness of erosion, sedimentation, turbidity, and pollution control measures. Remedial action shall be performed immediately.

The Contractor shall be responsible for the installation and maintenance of rain gauges. Daily rainfall data will be recorded and submitted to the Engineer along with the weekly inspecting reports.

4.1 INSPECTION

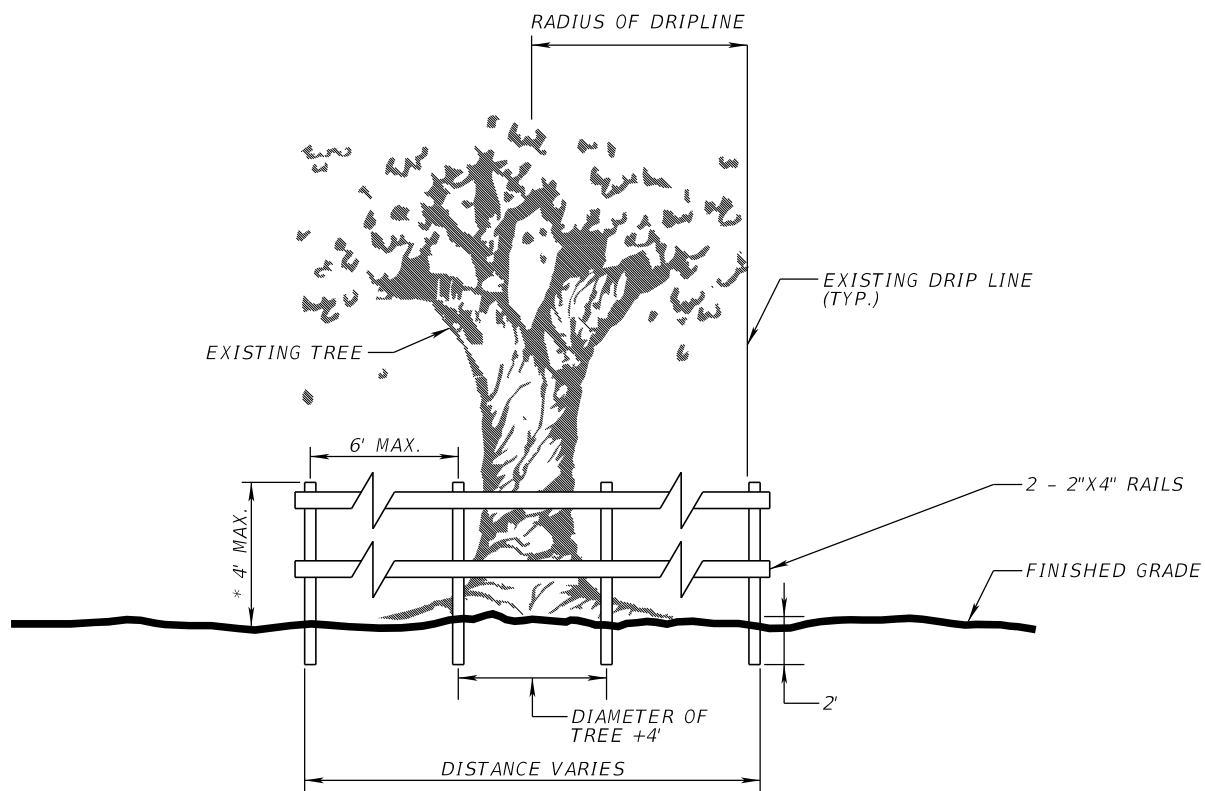
The Contractor is required to inspect all erosion control features at least once every seven calendar days and within 24 hours of the end of a rain event of 0.5 inches or greater. In addition, the Contractor shall maintain all erosion control features as required herein and as specified in State and/or Federal environmental regulatory permits. This includes, but is not limited to, the daily review of the location of silt fences in areas where construction activities have changed the natural contour and drainage runoff to ensure the silt fences are properly located for effectiveness. The Contractor will use FDOT Form 650-040-03 or approved equivalent form to report all inspection findings and corrective actions taken as a result of the inspection. The Contractor will sign each inspection report and submit it weekly to the Engineer.

4.2 PROJECT COMPLETION

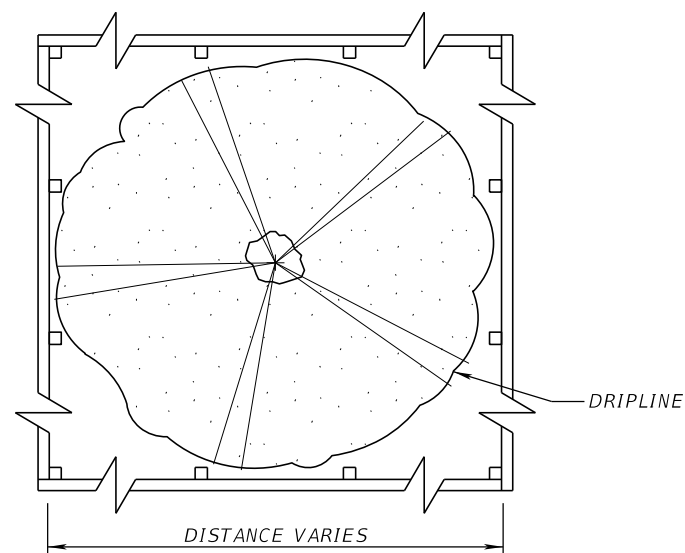
Temporary perimeter controls (silt fences, turbidity barriers, etc.) shall be removed after final construction site stabilization, or after final stabilization of those portions of the site upstream of the perimeter controls. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease and when stabilization measures are initiated shall be included in the Contractor's Erosion Control Plan. Upon completion of construction, the Contractor shall submit a copy of the Contractor's Erosion Control Plan with all inspection reports to the Engineer who will forward to the Owner in accordance with records retention requirements of the NPDES Permit.

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129	OSCEOLA COUNTY		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO. 38
DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			

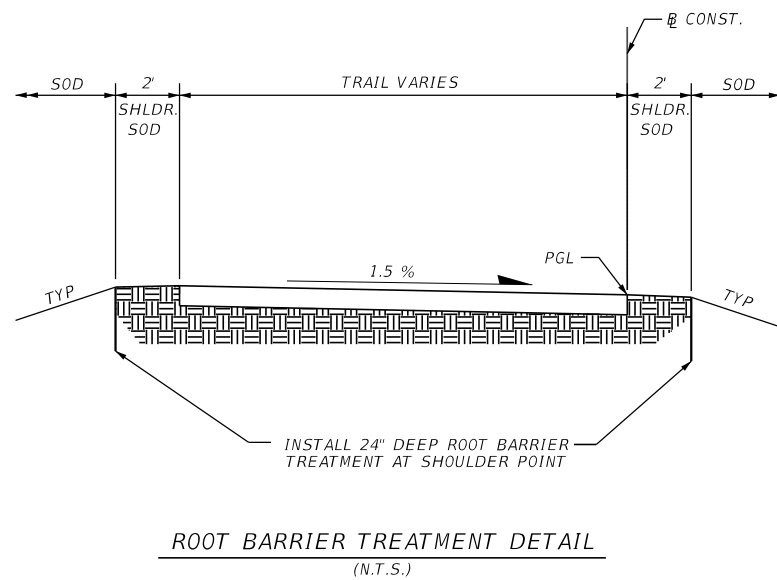
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TYPICAL TREE PROTECTION BARRICADE DETAIL
NOT TO SCALE

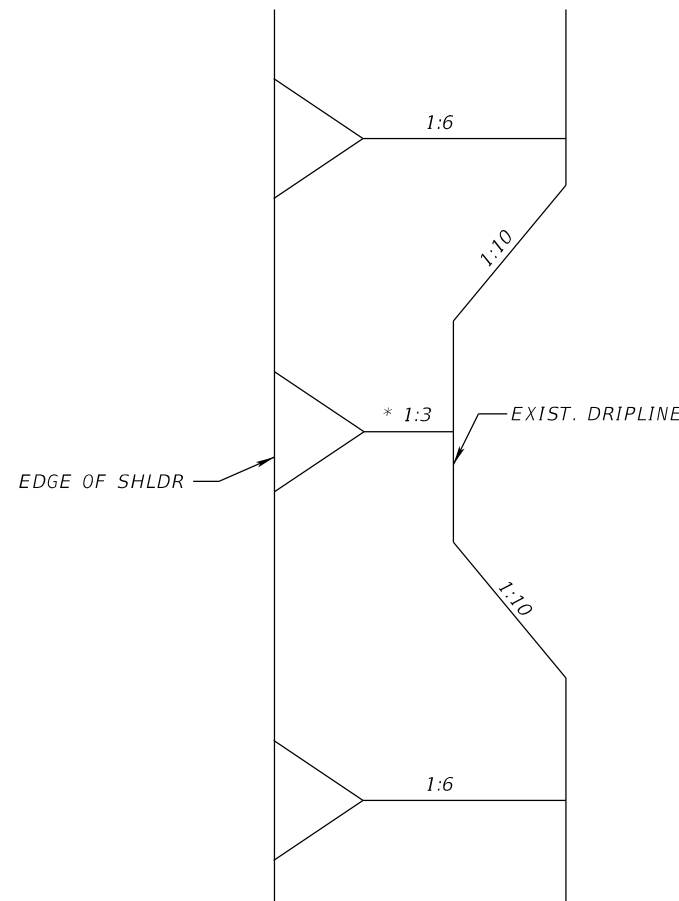


TYPICAL TREE PROTECTION BARRICADE PLAN
NOT TO SCALE



ROOT BARRIER TREATMENT DETAIL
(N.T.S.)

SUMMARY OF ROOT BARRIER TREATMENT		
LOCATION	LENGTH (LF)	SIDE
STA 31+60.00 - STA 32+20.00	60	LT & RT
STA 32+80.00 - STA 33+50.00	70	LT
STA 33+20.00 - STA 34+00.00	80	RT
STA 36+80.00 - STA 37+80.00	100	LT
STA 36+80.00 - STA 37+30.00	50	RT
STA 52+20.00 - STA 53+40.00	120	RT
STA 55+70.00 - STA 57+50.00	180	RT
TOTAL:	660	



SIDE SLOPE DETAIL ALONG TREES
NOT TO SCALE

* CONTRACTOR CAN CONSTRUCT FLATTER SLOPES WITH APPROVAL OF ENGINNER

NOTES:

- PRIOR TO ANY LAND CLEARING OR CONSTRUCTION ACTIVITY, TREE PROTECTION BARRICADES SHALL BE ERECTED AROUND ALL TREES TO BE PROTECTED IN THE PROJECT AREA.
- TREE PROTECTION BARRICADES MUST MEET OR EXCEED THE STANDARDS OF THE OSCEOLA COUNTY LAND DEVELOPMENT CODE.
- THE PROTECTIVE BARRICADE SHALL BE CONSTRUCTED OF 2"x4" WOOD POSTS STANDING A MINIMUM OF 4' ABOVE GROUND, PLACED A MAXIMUM OF 6 FEET APART, WITH 2-2"x4" WOOD RAILS CONNECTING THE POSTS.
- PROTECTIVE ZONES, WHICH SHOULD EXTEND FROM THE TREE TRUNK IN ALL DIRECTIONS TO THE EDGE OF THE DRIPLINE, SHALL BE MAINTAINED UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN OR CONSTRUCTION IS COMPLETE, WHICHEVER OCCURS FIRST.
- TREE PROTECTION BARRICADES MAY BE MODIFIED TO ACCOMMODATE CONSTRUCTION OF TRAIL AND / OR AMENITIES AS DIRECTED AND APPROVED BY THE COUNTY OR ENGINEER.
- PERMITTED ACTIVITIES WITHIN PROTECTED AREA IS LIMITED TO TUNNELING OF UTILITY LINES UNDER ROOTS, AND PREPARATION OF GROUND SURFACE FOR PLACEMENT OR SOD OR OTHER GROUND COVER.
- PRUNING OF THE PROTECTED TREE(S) TO COMPENSATE FOR THE ADDITIONAL STRESS PLACED ON THE PRESERVED TREE(S) SHALL BE CONDUCTED IN THE FOLLOWING MANNER:
 - PRUNING SHALL BE PROPORTIONAL TO THE AMOUNT OF REDUCTION ALLOWED IN THE UNDISTURBED AREA, AND THE CROWN MUST BE PRUNED BY REMOVING BRANCHES AND THINNING RATHER THAN TOPPING. ROOTS GREATER THAN 1 INCH IN DIAMETER SHALL BE CUT CLEANLY BY A SHARP PRUNING TOOL.
 - EXPOSED ROOTS, IF CUT OR BROKEN SHALL BE PRUNED BACK TO HEALTHY TISSUE AND COVERED TO PREVENT DRYING.
 - BROKEN LIMBS AND BROKEN OR STRIPPED TREE BARK SHALL BE PROMPTLY PRUNED AND TREATED. LOW HANGING BRANCHES THAT COULD BE INJURED BY VEHICLES SHALL BE CAREFULLY PRUNED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

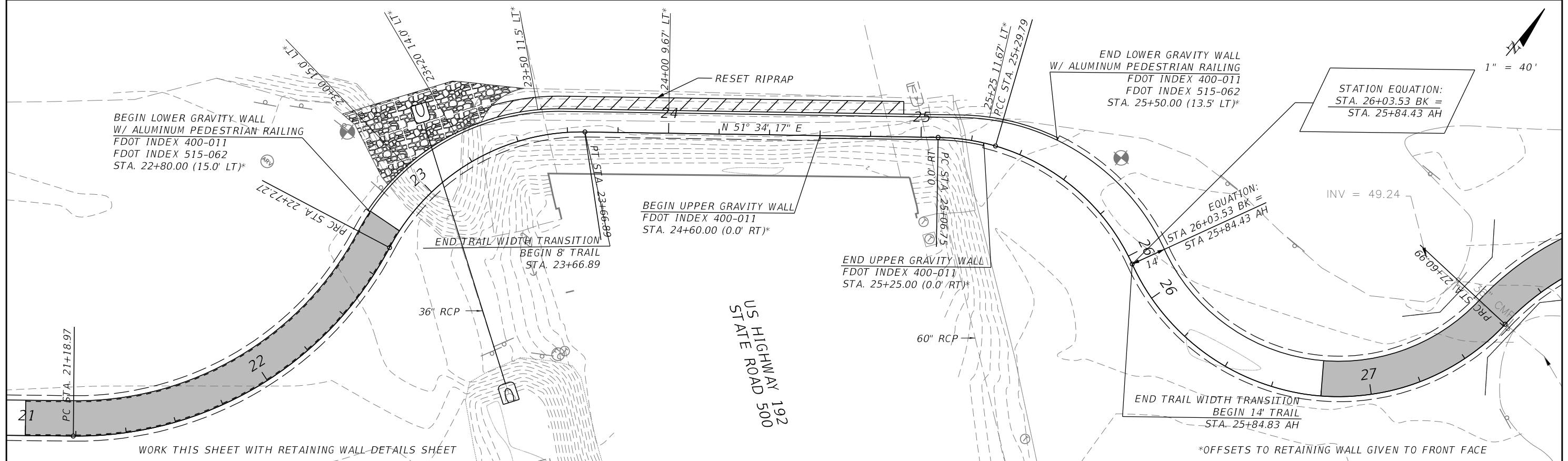
KCG
KELLY, COLLINS & GENTRY, INC.
 ENGINEERING / PLANNING
 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEPHEN P. DICIERO, P.E. LICENSE NO. 89129

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

TREE PROTECTION BARRICADE DETAIL

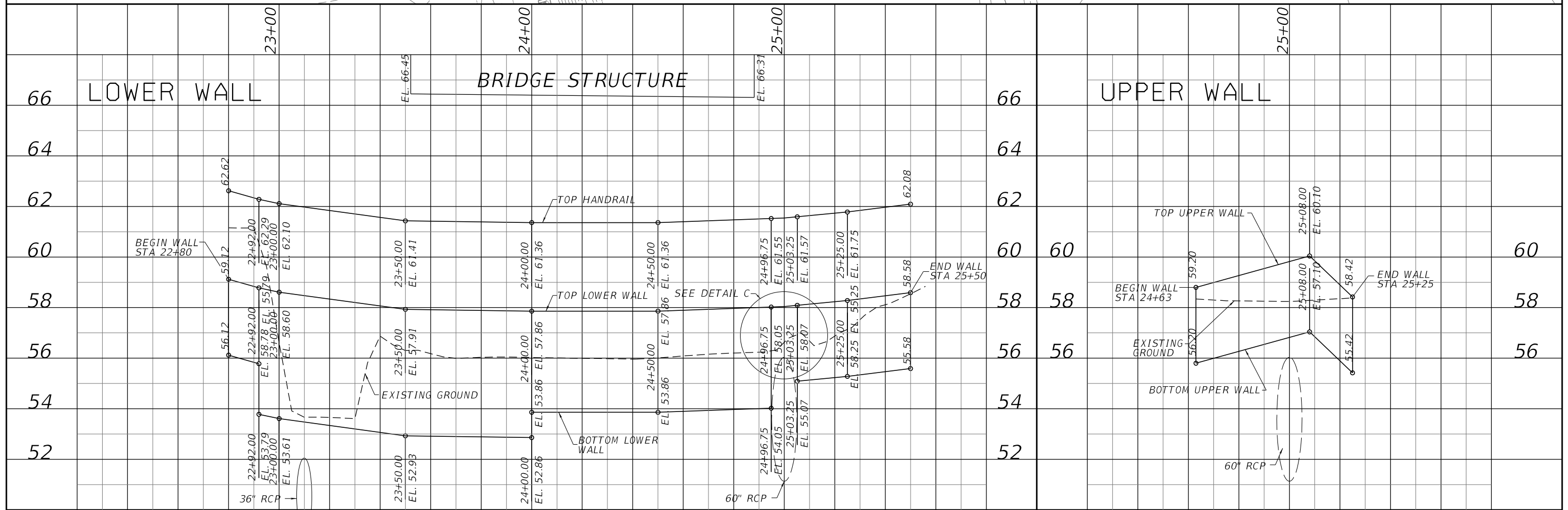
SHEET NO.
 39

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WORK THIS SHEET WITH RETAINING WALL DETAILS SHEET

*OFFSETS TO RETAINING WALL GIVEN TO FRONT FACE



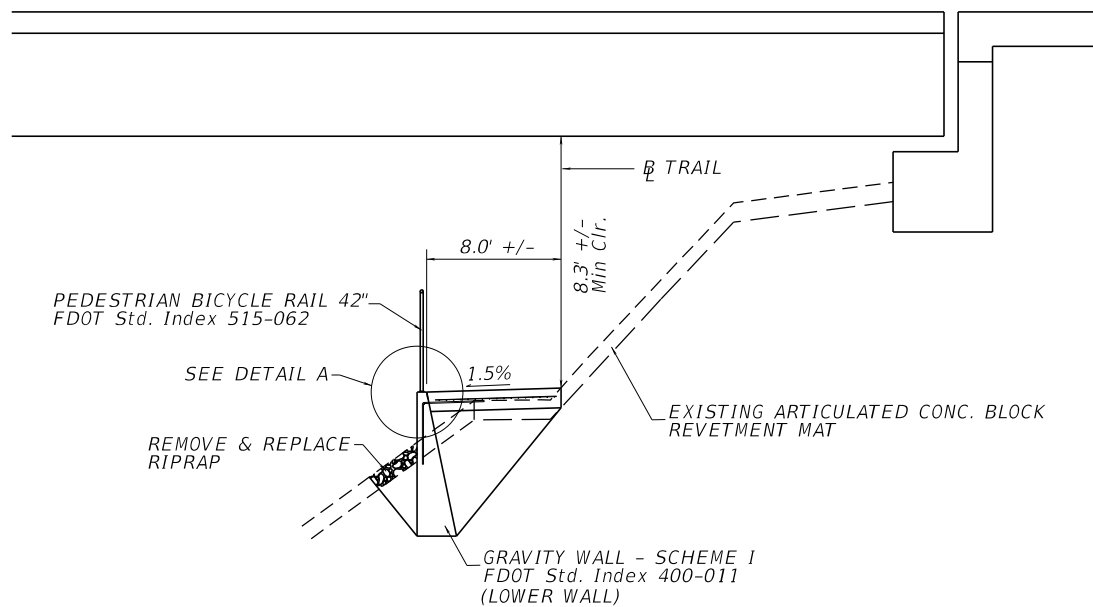
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

QEI
 QUIGG ENGINEERING INC.
 6150 S. FLORIDA AVENUE
 LAKELAND, FL 33813
 (863) 422-5517 (P)
 (217) 622-3290 (M)
 PROJECT MANAGER:
 DAVID BOOHER, P.E., S.E.
 www.quiggeengineering.com

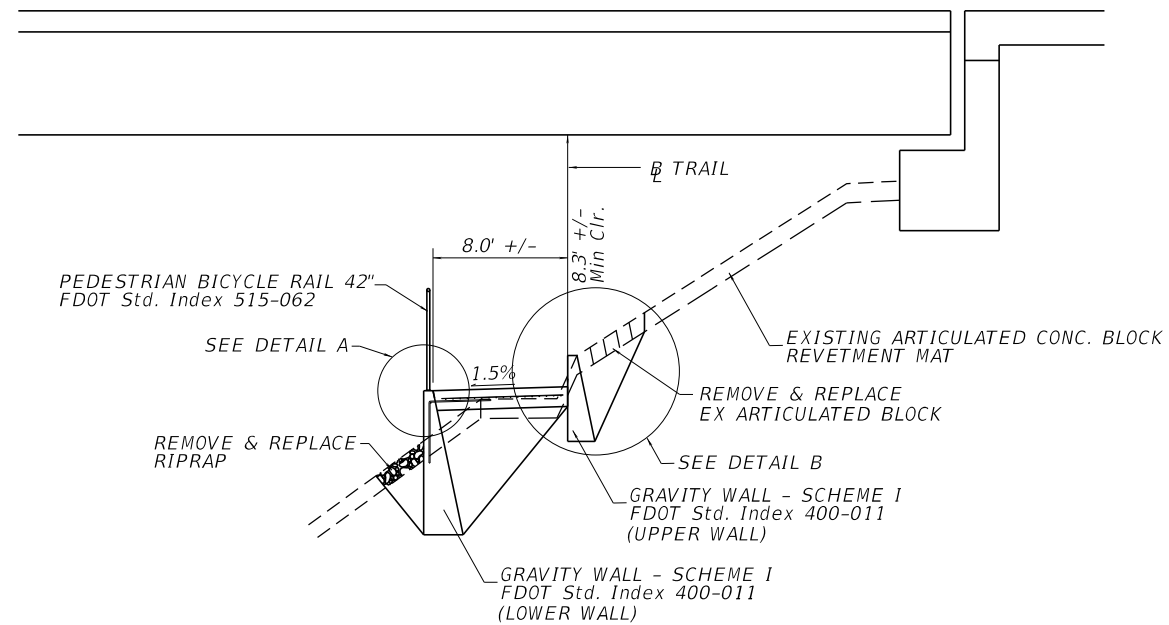
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

RETAINING WALL
PLAN & PROFILE
 SHEET NO. 40

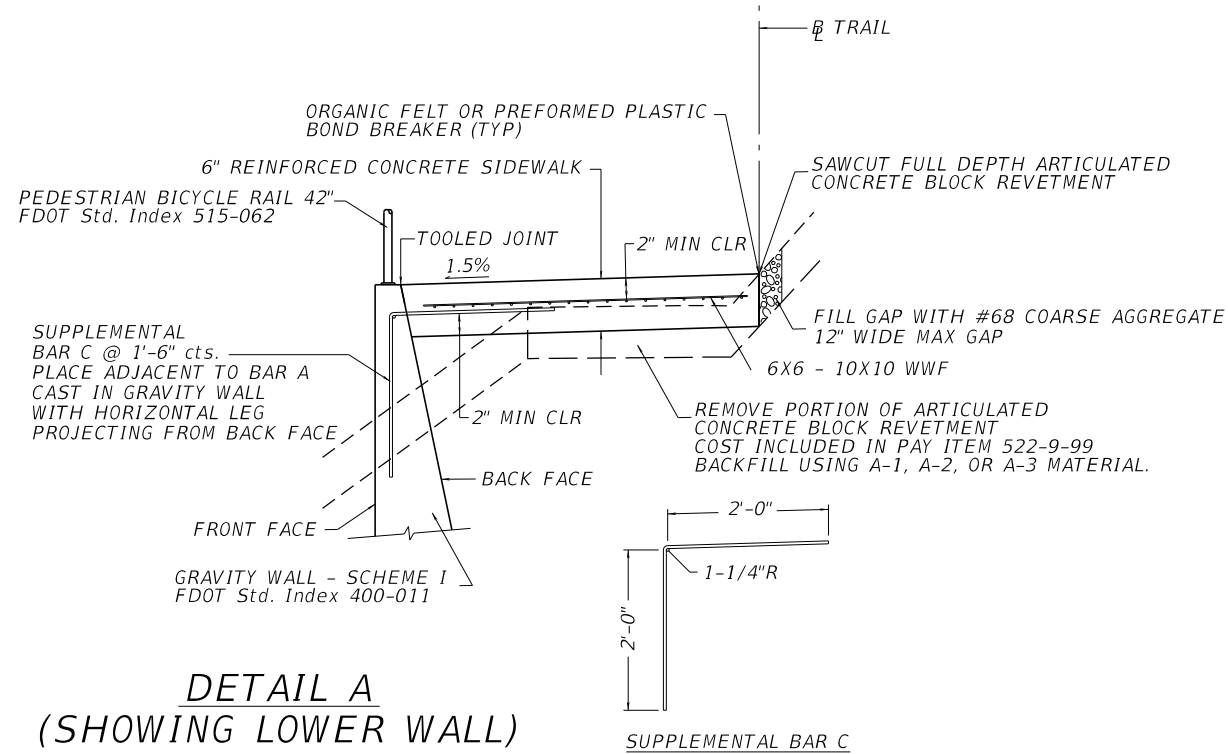
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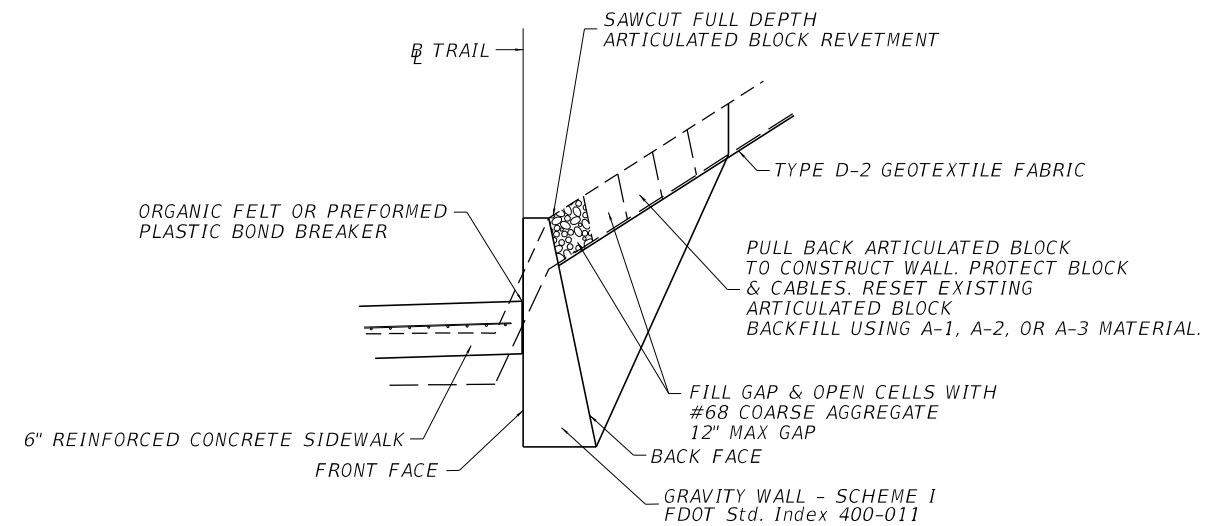
WALL ELEVATION - LOWER WALL



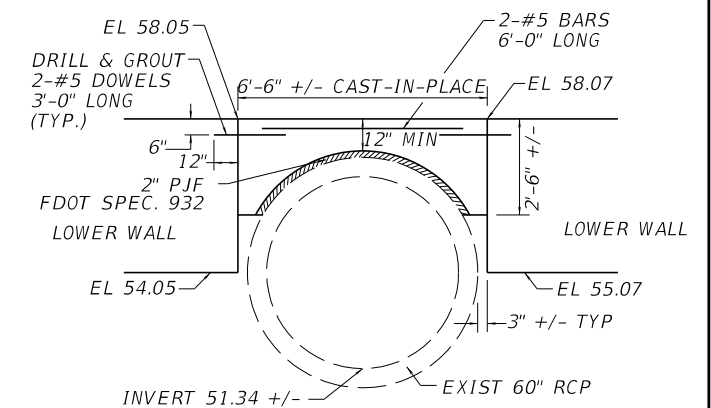
WALL ELEVATION - UPPER & LOWER WALL



DETAIL A (SHOWING LOWER WALL)



DETAIL B (SHOWING UPPER WALL)



DETAIL C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

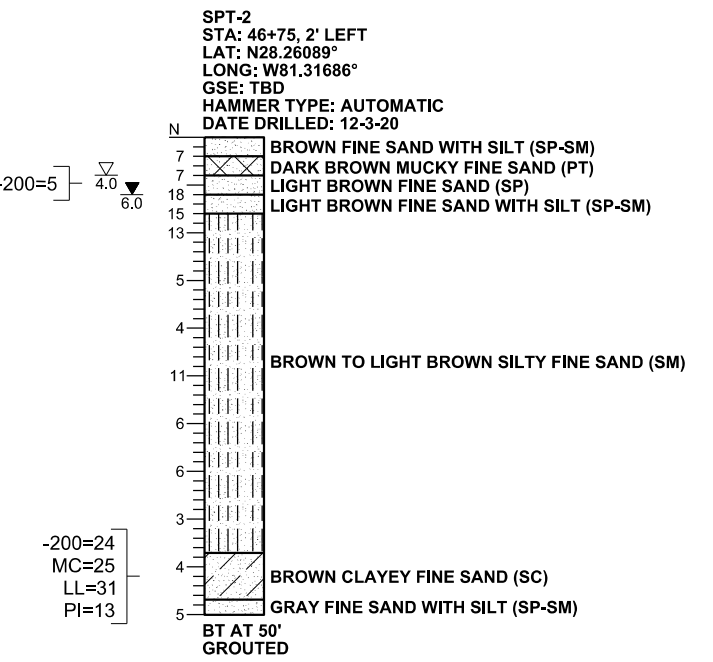
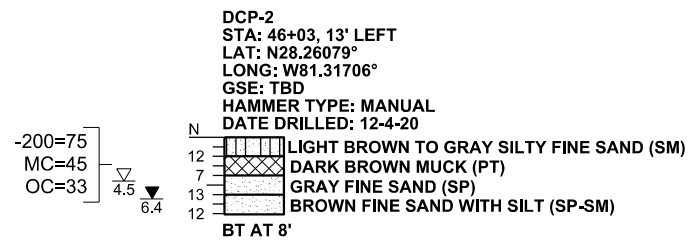
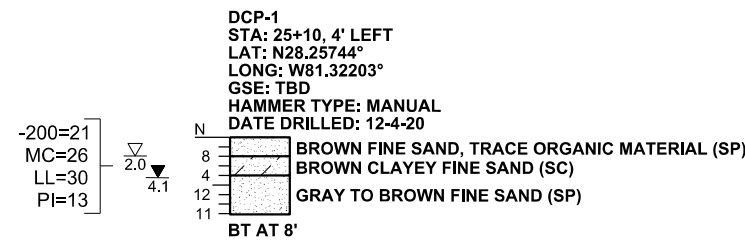
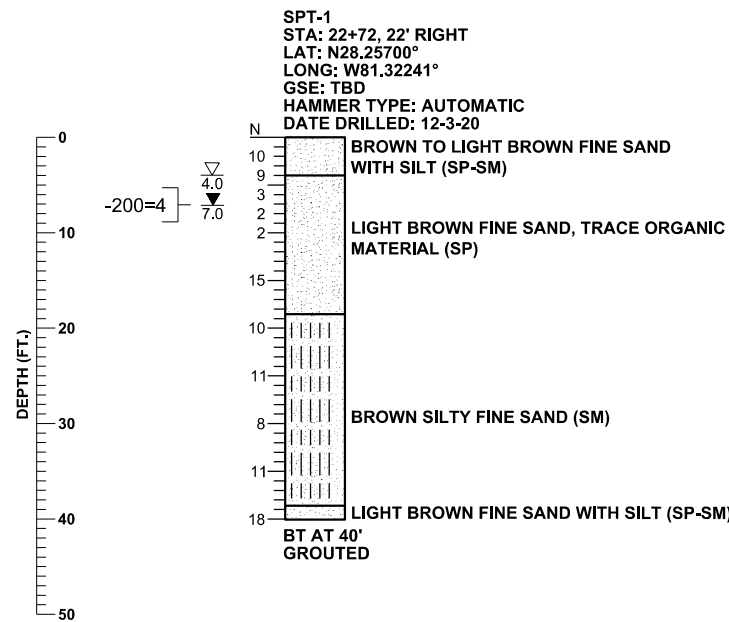
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DAVID BOOHER, P.E., S.E.
www.quiggeengineering.com

OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

RETAINING WALL DETAILS

SHEET NO.
41

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LEGEND

- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
 - N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
 - ▽ 4.0 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
 - ▼ 7.0 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
 - BT BORING TERMINATED AT DEPTH INDICATED
 - 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
 - MC= PERCENT NATURAL MOISTURE CONTENT
 - LL= LIQUID LIMIT
 - PI= PLASTICITY INDEX
 - OC= PERCENT ORGANIC CONTENT
- | | | | | | |
|--|---------------|--|---------------|--|------|
| | SAND | | SAND AND CLAY | | MUCK |
| | SAND AND SILT | | SAND AND MUCK | | |

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

THE DYNAMIC CONE PENETROMETER (DCP) TEST BORINGS DCP-1 AND DCP-2 WERE PERFORMED IN GENERAL ACCORDANCE WITH "DYNAMIC CONE FOR SHALLOW IN-SITU PENETRATION TESTING, VANE SHEAR AND CONE PENETRATION TESTING OF IN-SITU SOILS", ASTM STP 377, 1966.

THE "N" VALUES SHOWN FOR THE DCP TEST BORINGS REPRESENT APPROXIMATE STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT CORRELATED FROM MEASURED DCP RESISTANCE, BLOWS PER 1.75 INCHES OF 1.75 INCHES OF PENETRATION. THE CORRELATION OF DCP TO SPT "N" VALUES IS BASED ON THE CALIBRATION CURVE FOR COASTAL PLAINS SOILS, ASTM SPT 399, 1966.

THE BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING THE PLANS PROVIDED AND USING A SUBMETER ACCURACY TRIMBLE GPS UNIT. BORING LOCATIONS WERE NOT SURVEYED.

ACCORDING TO THE FDEP SEPTEMBER 2017 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDAN AQUIFER IN THE PROJECT VICINITY IS APPROXIMATELY +47 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +47 FEET NGVD.

SPLIT SPOON SAMPLER:
 INSIDE DIAMETER: 1.375 IN.
 OUTSIDE DIAMETER: 2.0 IN.
 AVERAGE HAMMER DROP: 30 IN.
 HAMMER WEIGHT: 140 LBS.
 HAMMER TYPE: SEE BORING

ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE:
 STEEL: MODERATELY AGGRESSIVE (pH=6.1)
 CONCRETE: SLIGHTLY AGGRESSIVE (pH=6.1)

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

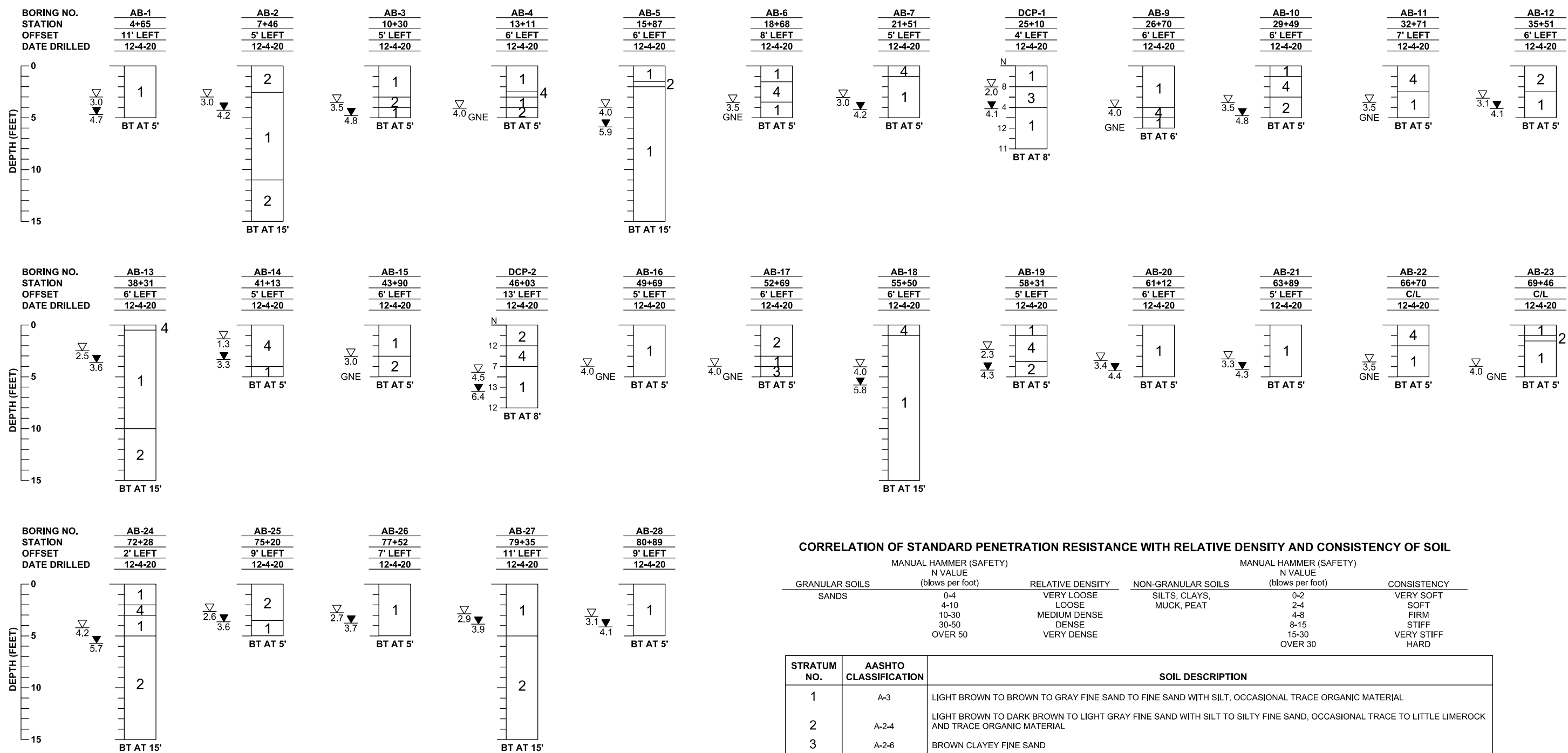
GRANULAR SOILS	MANUAL HAMMER (SAFETY)	AUTOMATIC HAMMER	RELATIVE DENSITY	NON-GRANULAR SOILS	MANUAL HAMMER (SAFETY)	AUTOMATIC HAMMER	CONSISTENCY
	N VALUE (blows per foot)	N VALUE (blows per foot)			N VALUE (blows per foot)	N VALUE (blows per foot)	
SANDS	0-4	0-3	VERY LOOSE	SILTS, CLAYS, MUCK, PEAT	0-2	0-1	VERY SOFT
	4-10	3-8	LOOSE		2-4	1-3	SOFT
	10-30	8-24	MEDIUM DENSE		4-8	3-6	FIRM
	30-50	24-40	DENSE		8-15	6-12	STIFF
	OVER 50	OVER 40	VERY DENSE		15-30	12-24	VERY STIFF
				OVER 30	OVER 24	HARD	

SPT-1, DCP-1
 SECTION: 4
 TOWNSHIP: 26 SOUTH
 RANGE: 30 EAST

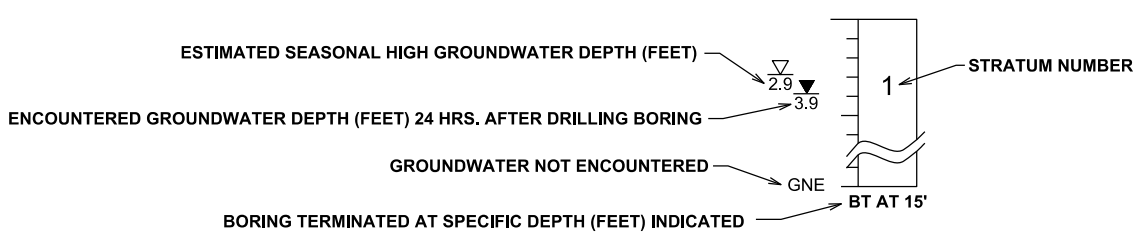
SPT-2, DCP-2
 SECTION: 33
 TOWNSHIP: 25 SOUTH
 RANGE: 30 EAST

REVISIONS				GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 Michigan Avenue, Suite D Kissimmee, FL 34744-1933 T 407-483-1212 F 407-932-2912 DANIEL C. STANFILL, P.E. 42763	OSCEOLA COUNTY KISSIMMEE-ST. CLOUD CONNECTOR TRAIL	REPORT OF BORING RESULTS FOR WALLS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				42

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BORING LEGEND



CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

	MANUAL HAMMER (SAFETY)		MANUAL HAMMER (SAFETY)		CONSISTENCY
	GRANULAR SOILS	N VALUE (blows per foot)	NON-GRANULAR SOILS	N VALUE (blows per foot)	
SANDS	0-4	VERY LOOSE	SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	4-10	LOOSE		2-4	SOFT
	10-30	MEDIUM DENSE		4-8	FIRM
	30-50	DENSE		8-15	STIFF
	OVER 50	VERY DENSE		15-30	VERY STIFF
				OVER 30	HARD

STRATUM NO.	AASHTO CLASSIFICATION	SOIL DESCRIPTION
1	A-3	LIGHT BROWN TO BROWN TO GRAY FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL
2	A-2-4	LIGHT BROWN TO DARK BROWN TO LIGHT GRAY FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE TO LITTLE LIMEROCK AND TRACE ORGANIC MATERIAL
3	A-2-6	BROWN CLAYEY FINE SAND
4	A-8	DARK BROWN MUCKY FINE SAND TO SANDY MUCK TO MUCK

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. AASHTO SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

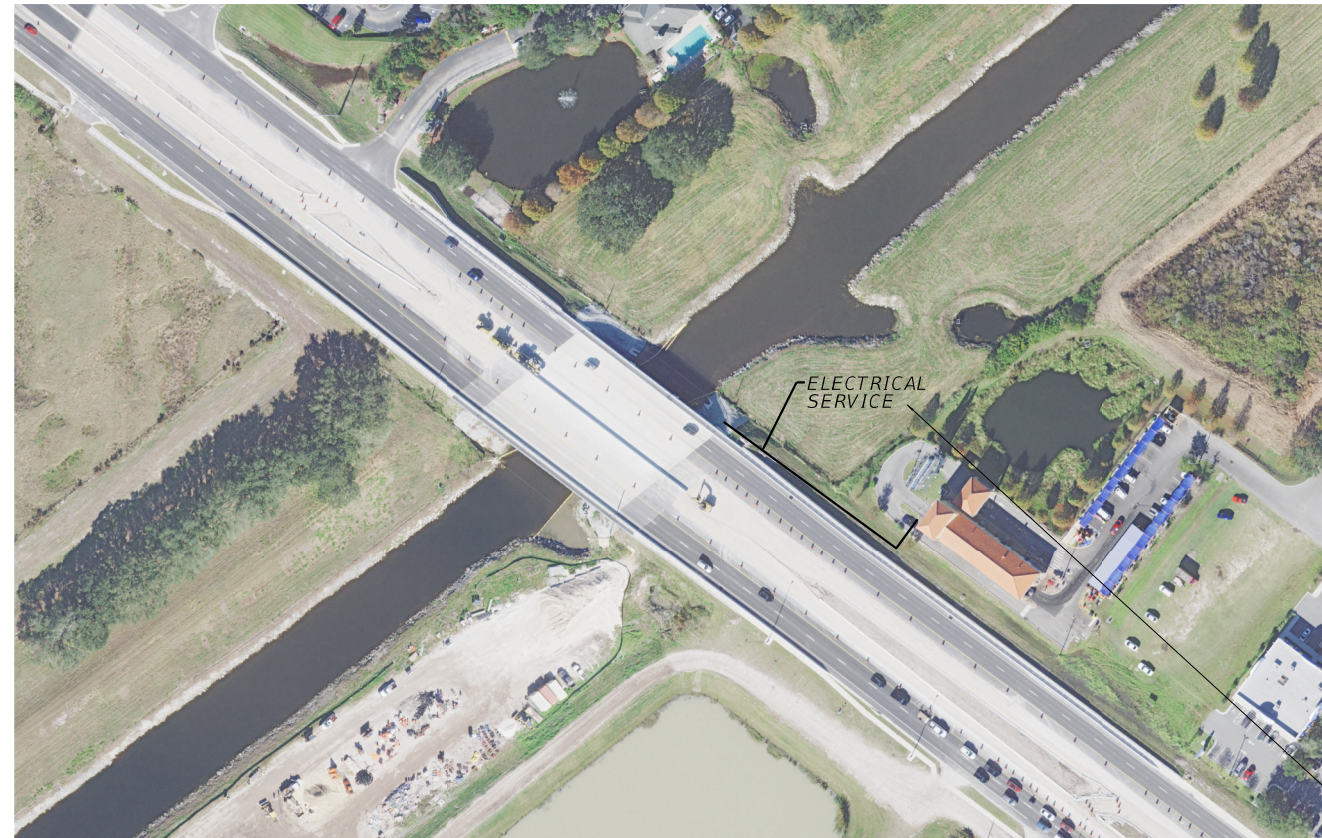
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THE BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY TRIMBLE GPS UNIT.

REVISIONS				GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 Michigan Avenue, Suite D Kissimmee, FL 34744-1933 T 407-483-1212 F 407-932-2912 DANIEL C. STANFILL, P.E. 42763	OSCEOLA COUNTY KISSIMMEE-ST. CLOUD CONNECTOR TRAIL	REPORT OF BORING RESULTS FOR TRAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				43

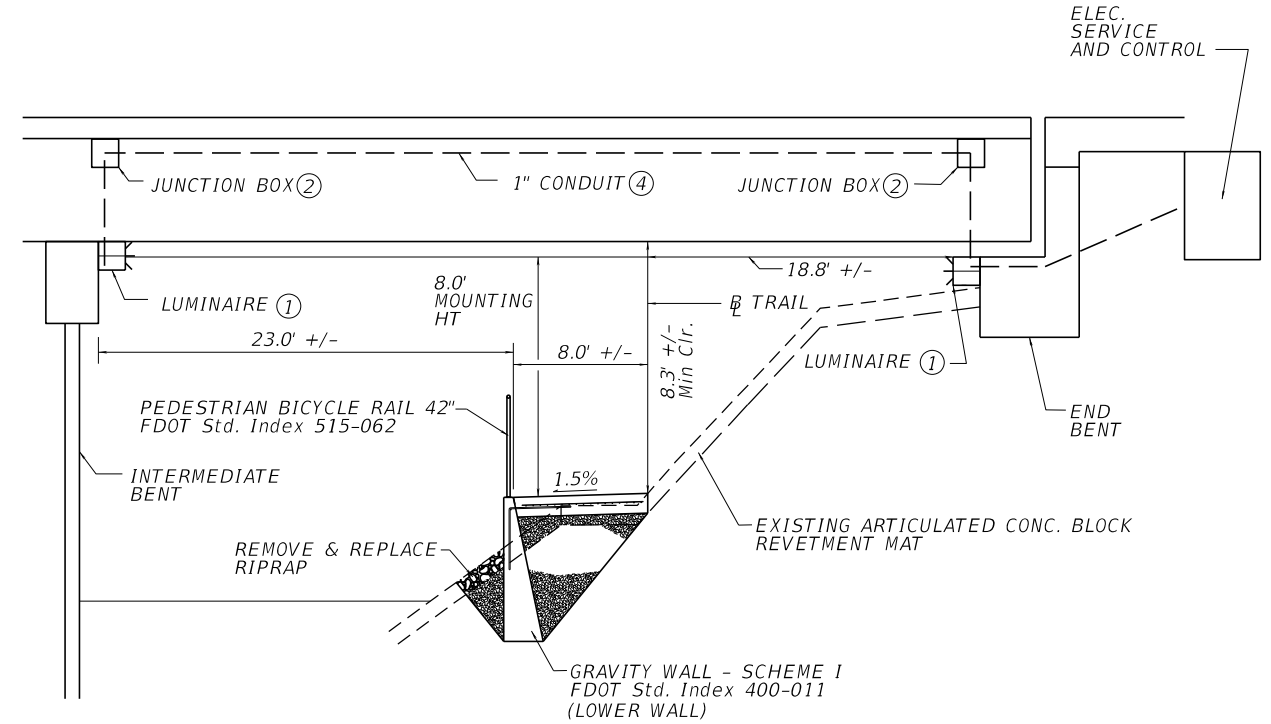
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PLAN

LOAD CENTER WITH DISCONNECT

STA 25+30 OFF 15.00 RT
 60 AMP MAIN BRAKER
 40 AMP CIRCUIT BREAKER
 SINGLE CIRCUIT
 NEMA 3R RAIN PROOF ENCLOSURES
 ON P-11 CONCRETE SERVICE POLE



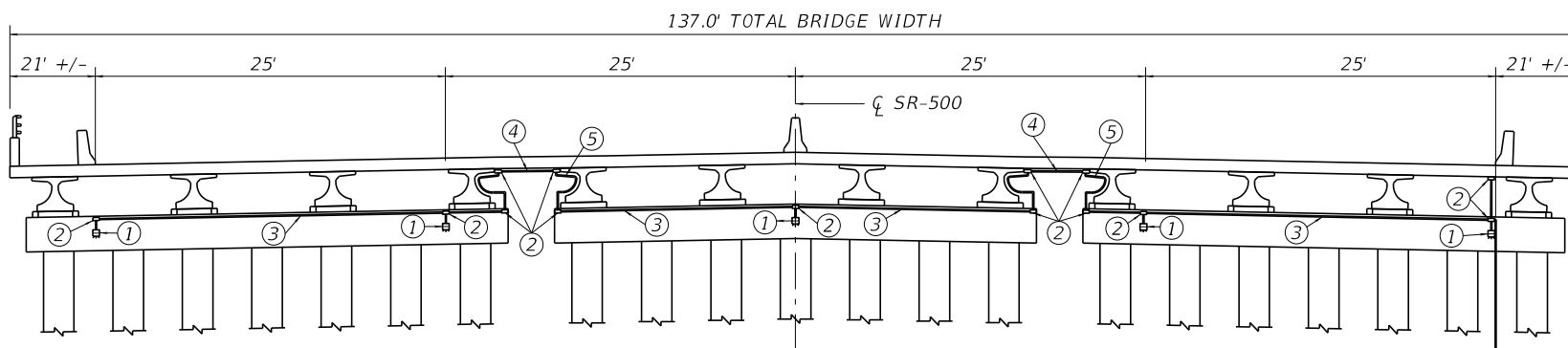
ELEVATION

LIGHTING DESIGN CRITERIA

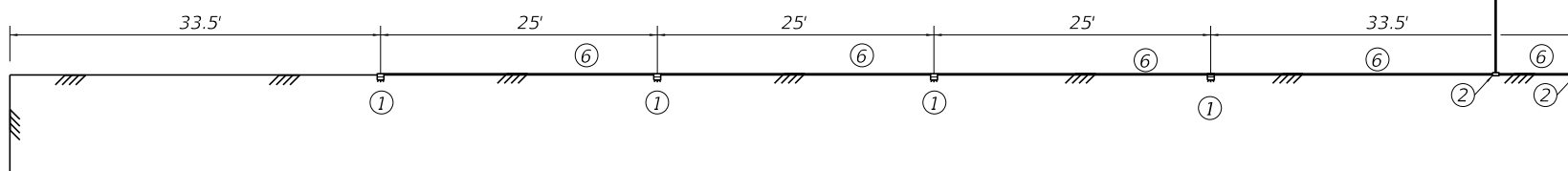
AVERAGE HORIZONTAL INITIAL ILLUMINANCE = 2.5 FOOT CANDLES
 UNIFORMITY RATIO AVG/MIN = 4:1 OR LESS
 UNIFORMITY RATIO MAX/MIN = 10:1 OR LESS

UNDERDECK LUMINAIRE

LED WALL MOUNTED LUMINAIRE WITH 4000K COLOR TEMPERATURE, TYPE 3, SHORT DISTRIBUTION LUMINAIRE WIRED FOR 120 VOLT OPERATION
 LUMINAIRE MUST COME FROM THE FDOT APPROVED PRODUCT LIST



SECTION AT INTERMEDIATE BENT



TOP VIEW AT END BENT

- ① UNDERDECK LUMINAIRE - MOUNT TO EAST FACE OF INT. BENT 3 IN CENTER OF CAP.
- ② NEW SURFACE MOUNT JUNCTION BOX 4" x 4" x 3".
- ③ 1" SURFACE MOUNTED CONDUIT - MOUNT TO TOP OF PIER WITH 2 #6 AWG, 1 #6 GND.
- ④ 1" SURFACE MOUNTED CONDUIT - MOUNT TO BOTTOM OF DECK WITH 2 #6 AWG, 1 #6 GND.
- ⑤ 1" FLEX CONDUIT - NO DRILLING INTO BEAMS. NO CONNECTION OF ANY TYPE TO BEAMS.
- ⑥ 1" SURFACE MOUNTED CONDUIT - MOUNT TO END WALL WITH 2 #6 AWG, 1 #6 GND

2" UNDERGROUND CONDUIT FROM LOAD CENTER WITH 2 #6 AWG, AND 1 #6 GND

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

US 192 BRIDGE UNDERDECK LIGHTING PLAN & DETAILS

SHEET NO.
44

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