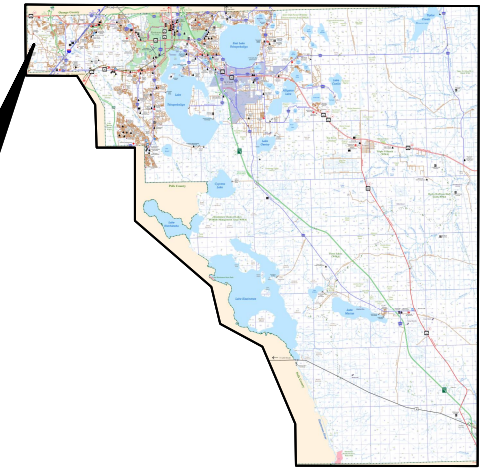




OSCEOLA COUNTY, FLORIDA TRANSPORTATION AND TRANSIT DEPARTMENT CONTRACT PLANS FOR WESTSIDE BLVD EXTENSION

PROJECT LOCATION
GOOGLE MAPS LINK



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2023-2024 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:

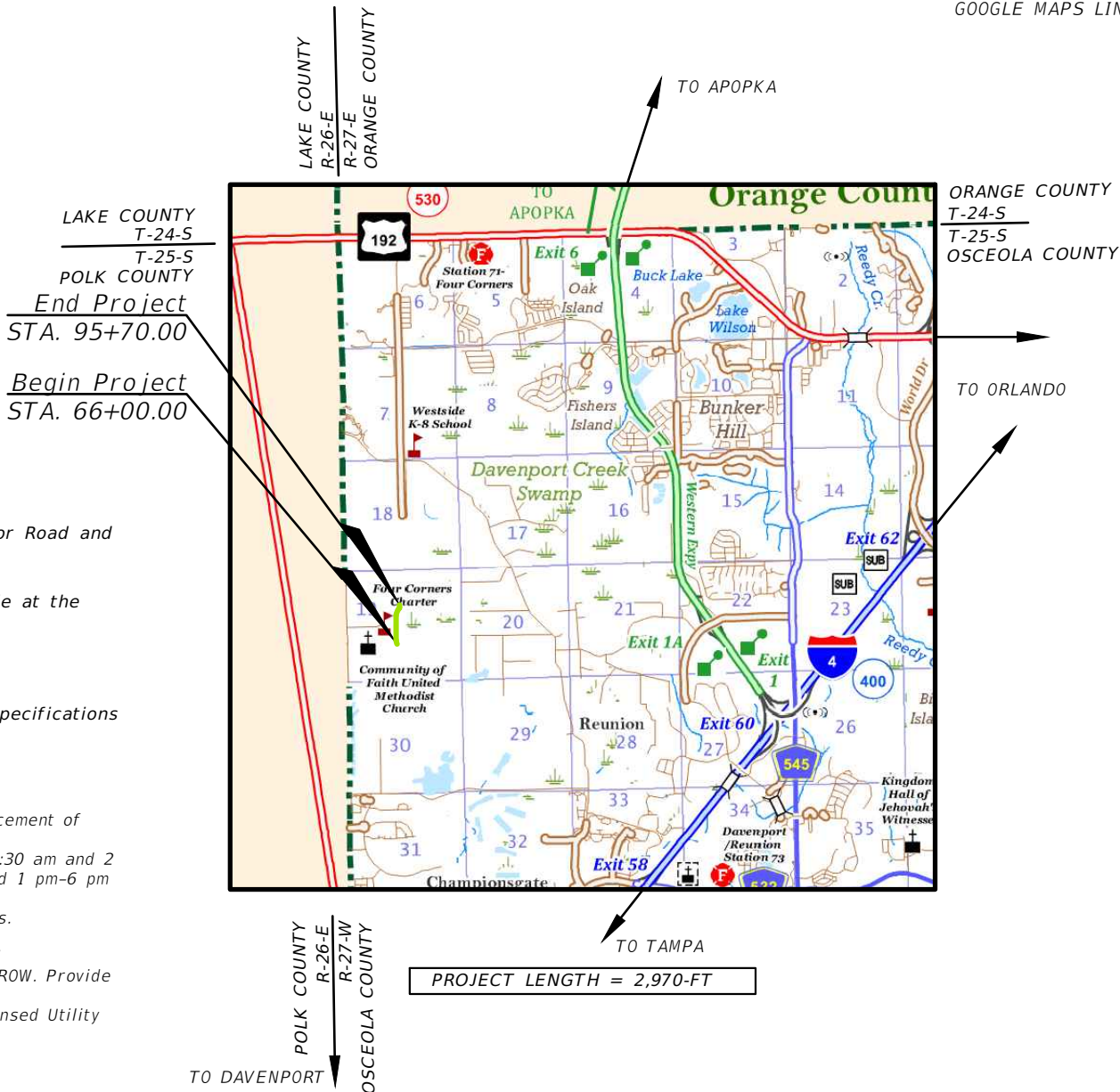
Florida Department of Transportation, January 2023-2024 Standard Specifications for Road and Bridge Construction at the following website: <https://www.fdot.gov/programmanagement/Implemented/SpecBooks>

OSCEOLA COUNTY NOTES:

- a. All applicable state and federal permits must be obtained before commencement of development on or off site.
- b. No lane closure shall occur on any roadway between the hours of 6 am-9:30 am and 2 pm-6 pm on Monday, Tuesday, Thursday, and Friday and 6 am-9:30 am and 1 pm-6 pm on Wednesdays.
- c. Must have MOT certified field personnel overseeing roadway improvements.
- d. A Bond or Letter of Credit is required.
- e. Contractor's Insurance certificate is required for work within county ROW
- f. Notification must be provided to all Right of Way users prior to work in ROW. Provide verification to Inspections prior to pre-construction conference.
- g. All underground utilities installation must be performed by a Florida Licensed Utility Contractor.

BOARD OF COUNTY COMMISSIONERS

- PEGGY CHOUDHRY DISTRICT 1 COUNTY COMMISSIONER
- VIVIANA JANER DISTRICT 2 COUNTY COMMISSIONER
- BRANDON ARRINGTON DISTRICT 3 COUNTY COMMISSIONER
- CHERYL GRIEB DISTRICT 4 COUNTY COMMISSIONER
- RICKY BOOTH DISTRICT 5 COUNTY COMMISSIONER
- STEVEN KANE PE. TRANSPORTATION DIRECTOR



PROJECT LENGTH = 2,970-FT

FINAL 90% PLANS
NOT FOR CONSTRUCTION
MARCH 2023

OSCEOLA COUNTY PROJECT MANAGER: SAMEER AMBARE, P.E., PMP

INDEX OF ROADWAY PLANS

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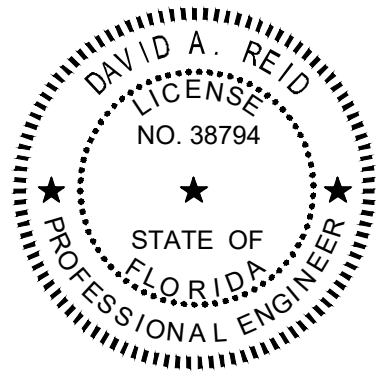
ROADWAY PLANS ENGINEER OF RECORD:



DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC.
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150
VENDOR NO: F431623092-009

SHEET NO.

1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

DAVID A. REID, P.E.

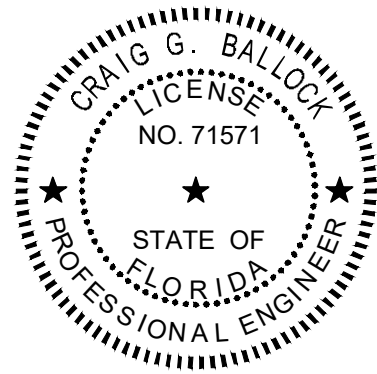
ON THE DATE ADJACENT TO THE SEAL

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HAMILTON ENGINEERING AND SURVEYING, LLC.
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
DAVID A. REID, P.E. NO. 38794

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

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

CRAIG G. BALLOCK, P.E.

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
919 LAKE BALDWIN LANE
ORLANDO, FLORIDA 32814
CRAIG G. BALLOCK, P.E. NO. 71571

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

SHEET NO.	SHEET DESCRIPTION
70 - 72	ROADWAY SOIL SURVEY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150





SIGNATURE SHEET

SHEET NO.
2

NOTES TO REVIEWER

1. PROPOSED WORK AT EITHER END OF THE PROJECT ASSUMES THAT ADJACENT SECTIONS OF WESTSIDE BLVD ARE CONSTRUCTED PRIOR TO THIS PROJECT.
2. ALL CIP WALLS ARE TO BE DESIGNED BY OTHERS AND SHOP DRAWINGS ARE TO BE SUBMITTED BY THE CONTRACTOR TO OSCEOLA COUNTY.
3. UTILITY WORK HAS BEEN REMOVED FROM THE PLAN SET AND TO BE PERMITTED SEPARATELY WITH TOHO WATER AUTHORITY/OSCEOLA COUNTY.
4. FINAL GEOTECHNICAL ROADWAY SOIL SURVEY AND AN UPDATED TITLE BLOCK THAT IS CONSISTENT WITH THE PLAN SET IS TO BE PROVIDED ON FINAL SET.
5. SUMMARY OF DRAINAGE STRUCTURES WILL BE PROVIDED ON THE FINAL SET, IN THE CORRECT FORMAT.

REVISIONS				 DAVID A. REID, P.E. P.E. LICENSE NUMBER 38794 HAMILTON ENGINEERING & SURVEYING, LLC 431 E. HORATIO AVE., SUITE 260 ORLANDO, FL 32751 (407) 629-8330 EXT 150	 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT DEPARTMENT	NOTES TO REVIEWER	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				3

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FDOT PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QTY
0101 1	MOBILIZATION	LS	1
0102 60	WORK ZONE SIGN	ED	150
0102115	TYPE 3 SIGN, ROAD TERMINAL TEMP	ED	600
0104 10 3	SILT FENCE, SEDIMENT BARRIER	LF	10,180
0104 15	SOIL TRACKING PREVENTION DEVICE	EA	2
0104 18	INLET PROTECTION SYSTEM	EA	5
0110 1 1	CLEARING & GRUBBING	AC	15.84
0120 1	REGULAR EXCAVATION	CY	7583.33
0120 6	EMBANKMENT	CY	194,506.86
0160 4	TYPE B STABILIZATION	SY	19,851.10
0285709	OPTIONAL BASE, BASE GROUP 09	SY	16,802.73
0327 70 1	MILLING EXIST ASPHALT PAVEMENT, 1" AVERAGE DEPTH	SY	1,000
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	1,750.29
0337 7 82	ASPHALT CONCRETE FRICTION COURSE TRAFFIC C, FC-9.5, PG 76-22	TN	704.73
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	CY	12.78
0400 2 11	CONCRETE CLASS II, RETAINING WALLS	CY	191.97
0425 1351	INLETS, CURB, TYPE P-5, RIGHT, ROUND BOTTOM, <10'	EA	21
0425 1351	INLETS, CURB, TYPE P-5, LEFT, ROUND BOTTOM, <10'	EA	18
0425 1352	INLETS, CURB, TYPE P-5, RIGHT, ROUND BOTTOM, >10'	EA	3
0425 1361	INLETS, CURB, TYPE P-6, RECTANGULAR BOTTOM, <10'	EA	7
0425 1362	INLETS, CURB, TYPE P-6, RECTANGULAR BOTTOM, >10'	EA	1
0425 1521	INLETS, DT BOT, TYPE C, SINGLE SLOT <10	EA	1
0425 1541	INLETS, DT BOT, TYPE D, SINGLE SLOT <10	EA	2
0425 1549	INLETS, DT BOT, TYPE D, MODIFIED	EA	1
0425 2 61	MANHOLES, P-8, CENTER, CONCENTRIC CONE, ROUND BOTTOM <10	EA	4
0425 2 62	MANHOLES, P-8, CENTER, CONCENTRIC CONE, ROUND BOTTOM >10	EA	11
0430175118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD (0-6')	LF	1,982.43
0430175118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD (10'-12')	LF	163.61
0430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD (0-6')	LF	268.34
0430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD (6'-8')	LF	557.42
0430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD (8'-10')	LF	634.30
0430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD (10'-12')	LF	79.24
0430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD (12'-14')	LF	708.08
0430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD (14'-16')	LF	104.13
0430175130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"S/CD (8'-10')	LF	758.02
0430175130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"S/CD (14'-16')	LF	417.91
0430175136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"S/CD (8'-10')	LF	450.00
0430175136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"S/CD (12'-16')	LF	177.28
0430175136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"S/CD (14'-16')	LF	103.19
0430611129	U TYPE ENDWALL WITH BAFFLES, 1:4 SLOPE 24"	EA	2
0430611133	U TYPE ENDWALL WITH BAFFLES, 1:4 SLOPE 30"	EA	1
0430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	1
0430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	2
0430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA	2
0430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	2
0515 2311	PEDESTRIAN/ BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE 1	LF	708.90
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	5,707.15
0520 2 1	CONCRETE CURB, TYPE A	LF	6,097.10
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	6,596
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	467.18
0527 2	DETECTABLE WARNINGS	SF	36
0550 10221	FENCING, TYPE B, 5.1-6.0 STANDARD	LF	2,293.92
0570 1 1	PERFORMANCE TURF	SY	16,231.23
0570 1 2	PERFORMANCE TURF, SOD	SY	18,480.69

FDOT PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QTY
0700 1 11	SINGLE POST SIGN F&I GROUND MOUNT, UP TO 12 SF	AS	6
0704 1 2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA	2
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B	EA	156
0711 11123	THERMO, STD., WHITE, SOLID, 12" FOR CROSSWALK & ROUNDABOUT	LF	85.72
0711 11125	THERMO, STD., WHITE, SOLID, 24" FOR STOP LINE & CROSSWALKS	LF	78.50
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 6-10 DOTTED EXTENSION LINE	GM	0.03
0711 11170	THERMOPLASTIC, STANDARD WHITE ARROWS	EA	3
0711 16101	THERMOPLASTIC, STANDARD WHITE, SOLID 6"	GM	1.17
0711 16131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	1.28
0711 16201	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	GM	1.12

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
MAITLAND, FL 32751
(407) 629-8330 EXT 150



SUMMARY OF PAY ITEMS

SHEET NO.
4

GENERAL NOTES

- BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88): NGVD29 = NAVD88 +0.863'
- ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

FRANK LOPEZ, PSM
P.S.M. NO.: 7001
DRMP, INC.
941 LAKE BALDWIN LANE
ORLANDO, FL 32814

ADDITIONAL ROW SURVEY PROVIDED BY HAMILTON SURVEYING. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

PAUL TRNKA, PSM
P.S.M. NO.: 5244
HAMILTON ENGINEERING & SURVEYING LLC.
431 E HORATIO AVE., SUITE 260
MAITLAND, FL 32751



- SPECIAL EVENT DAYS ARE NOT ANTICIPATED FOR THIS PROJECT.
- IF ANY NGS MONUMENT IS IN DANGER OF BEING DISTURBED, CONTACT: NATIONAL GEODETIC SURVEY 1315 EAST- WEST HIGHWAY SILVER SPRING, MD 20910-3282, PHONE: (301) 713-3242
- PROVIDE TO THE COUNTY AN UPDATED CONSTRUCTION SCHEDULE IN THE FORM OF A TWO WEEK LOOK AHEAD ON A BI-WEEKLY BASIS.
- RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER. DOCUMENT THIS BY TAKING PHOTOS OR VIDEO PRIOR TO CONSTRUCTION AND AT THE CONCLUSION OF THE PROJECT.
- INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED ON THE DRAINAGE STRUCTURES CROSS SECTION SHEET FOR SPECIFIC LOCATION OF INVERTS.
- EXCAVATION ACTIVITY SHALL BE CONDUCTED SO AS TO CONTROL THE GENERATION AND OFF-SITE MIGRATION OF DUSTS AND PARTICLES. ALL AREAS IN WHICH SUCH DUSTS OR PARTICLES MAY BE GENERATED SHALL BE KEPT WET, TREATED WITH CHEMICAL DUST DETERGENTS, OR CONTROLLED IN ANOTHER MANNER TO REDUCE THE POTENTIAL FOR THEIR OFF-SITE MIGRATION. ATMOSPHERIC DISCHARGES FROM PROCESSING AND DRYING EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL LAWS. TO MINIMIZE DUST AND TO PREVENT THE DEPOSIT OF SOIL EXCAVATION MATERIAL ON PAVED ROADS, TRUCKS SHALL BE COVERED WITH THEIR TAILGATES LATCHED. DIRT ROAD SEGMENTS OF THE DESIGNATED HAUL ROUTE SHALL REQUIRE REGULAR WATERING, AS NECESSARY, TO MINIMIZE DUST GENERATED BY HAULING ACTIVITIES.

UTILITY NOTES

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED
- PROVIDE A MINIMUM 14-DAY NOTICE TO UTILITY OWNERS FOR SCHEDULING PRIOR TO MOBILIZATION PER SUNSHINE ONE CALL LIST.

SERVICE AREA CODE	SERVICE AREA NAME	CONTACT	PHONE NUMBERS	UTILITY TYPE
CNTL01	CENTURYLINK	BILL MCCLOUD	DAY: (850) 599-1444	FIBER, TELEPHONE
FPC313	DUKE ENERGY	STEPHANIE OLMO	DAY: (407) 905-3376	ELECTRIC
LCA395	COMCAST COMMUNICATIONS/ PREV LK CNTY CBLV	ANDREW SWEENEY	DAY: (904) 738-6898	CATV
POLKNE	POLK COUNTY UTILITIES - NE REGION	TOM HOLLINGTON	DAY: (863) 298-4100	SEWER, WATER
	TOHO WATER AUTHORITY	EDWIN MATOS	DAY: (407) 944-5024	WATER

- LOCATE AND AVOID ALL EXISTING UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW THE GROUND SURFACE. ALLOW ONE WEEK FOR RELOCATION ON ANY UTILITIES AT NO ADDITIONAL COST OR TIME. ALL DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.

REVISIONS				 DAVID A. REID, P.E. P.E. LICENSE NUMBER 38794 HAMILTON ENGINEERING & SURVEYING, LLC 431 E. HORATIO AVE., SUITE 260 ORLANDO, FL 32751 (407) 629-8330 EXT 150	 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT DEPARTMENT	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				5

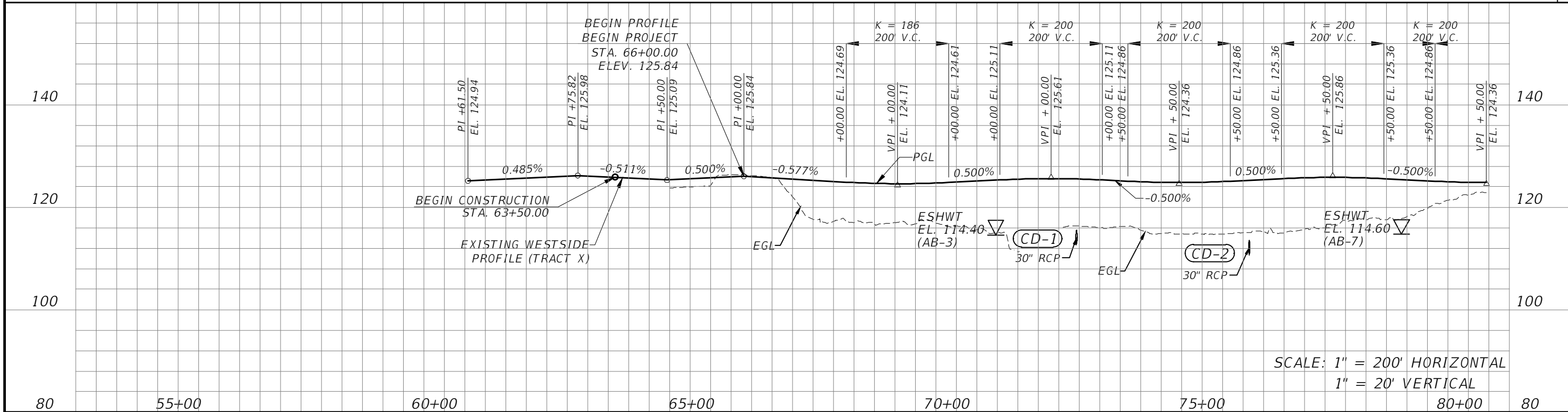
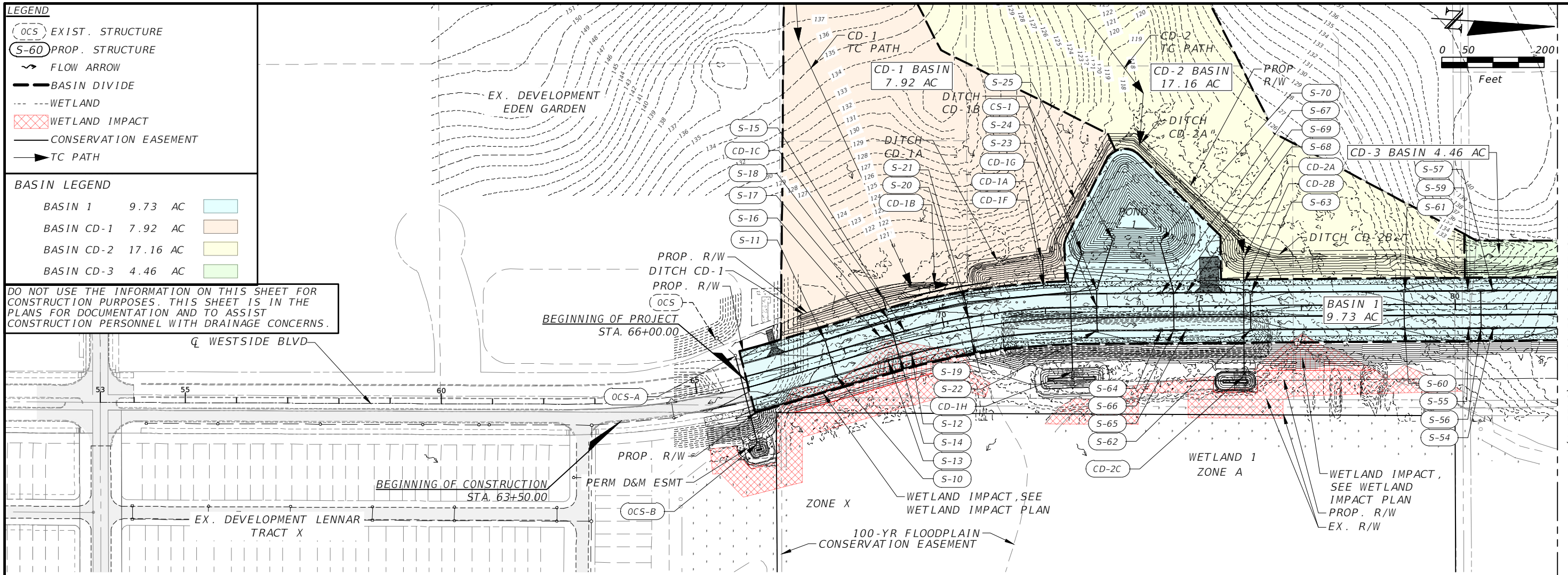
LEGEND

- (OCS) EXIST. STRUCTURE
- (S-60) PROP. STRUCTURE
- FLOW ARROW
- BASIN DIVIDE
- - - WETLAND
- ▨ WETLAND IMPACT
- CONSERVATION EASEMENT
- ▶ TC PATH

BASIN LEGEND

BASIN 1	9.73 AC	
BASIN CD-1	7.92 AC	
BASIN CD-2	17.16 AC	
BASIN CD-3	4.46 AC	

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.



SCALE: 1" = 200' HORIZONTAL
1" = 20' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

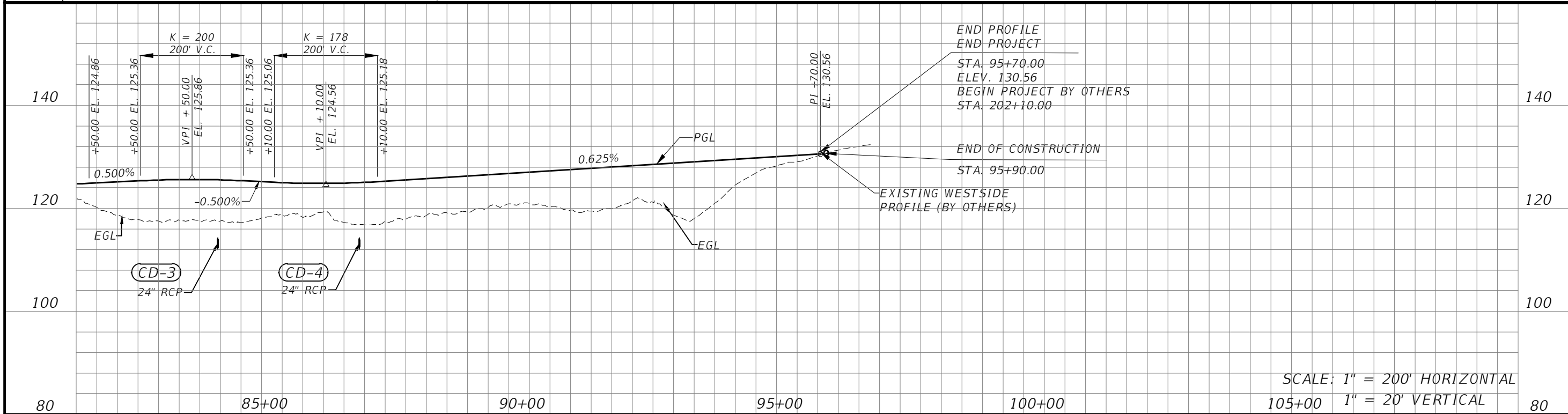
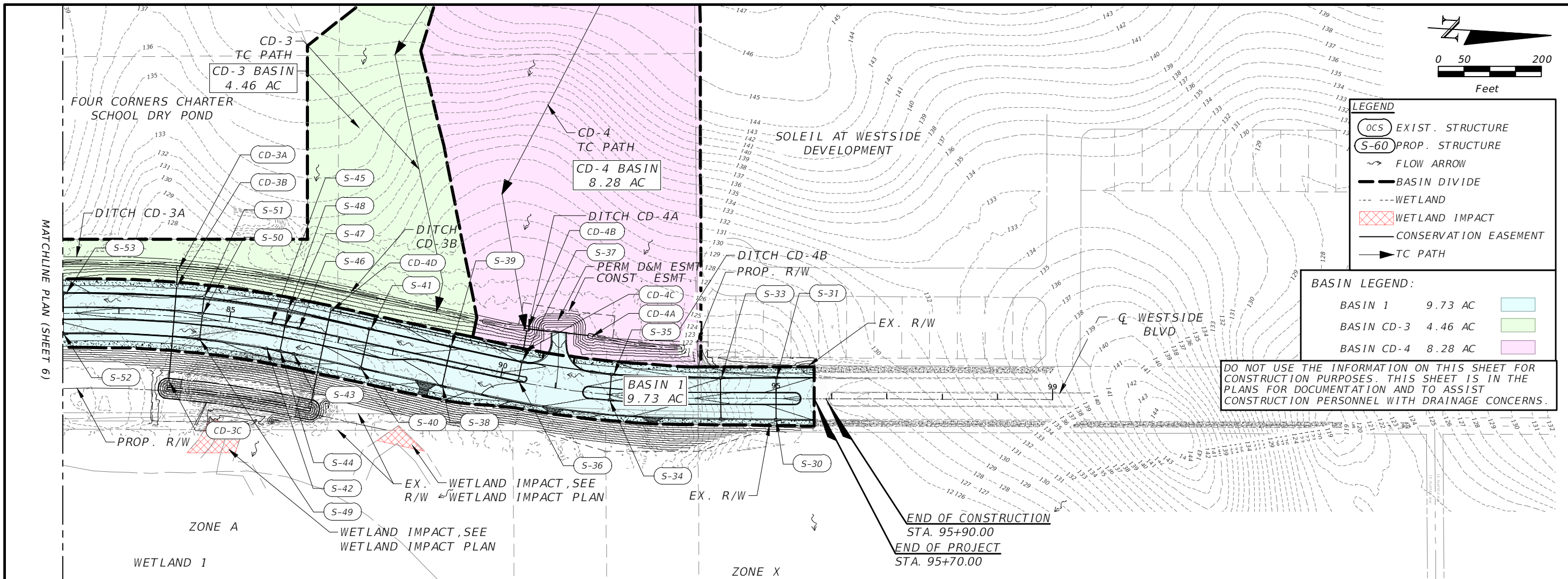
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

DRAINAGE MAP (1)

SHEET NO.
6



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

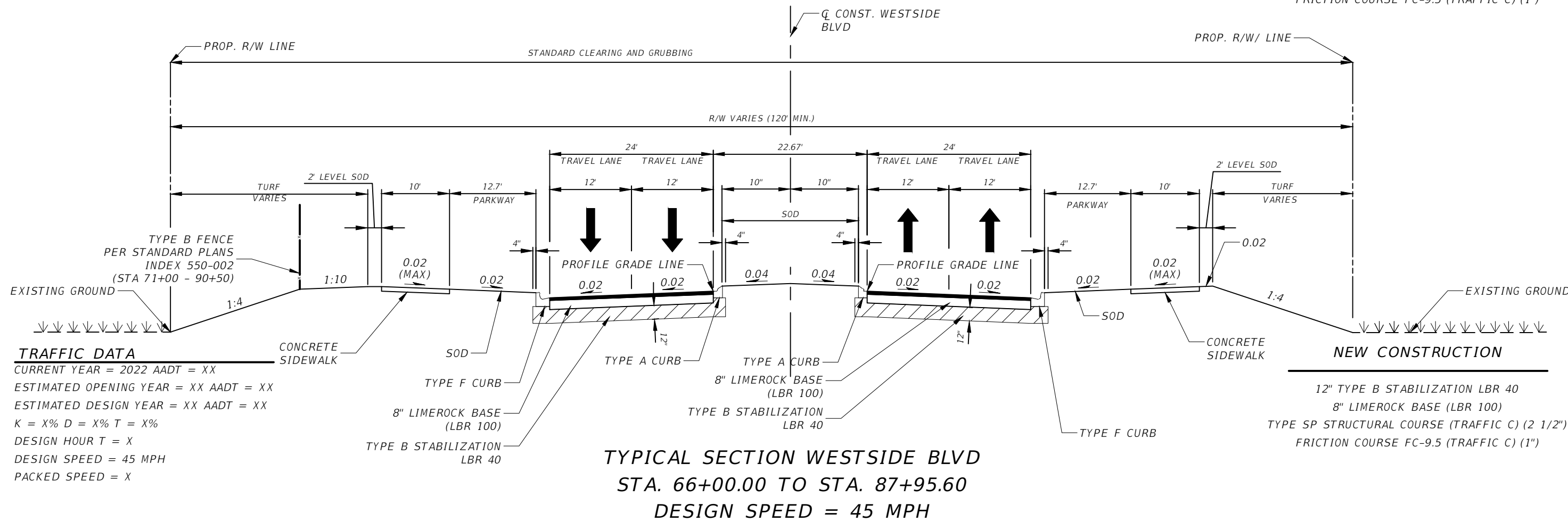
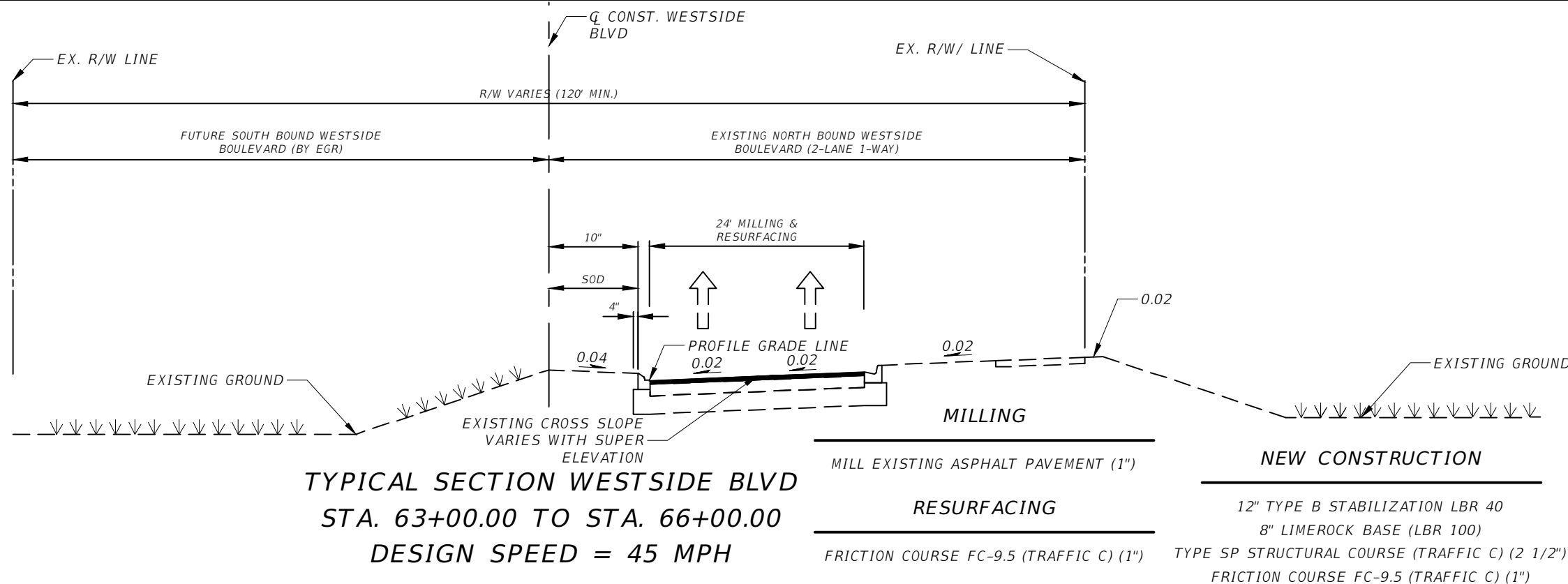
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 431 E. HORATIO AVE., SUITE 260
 MAITLAND, FL 32751
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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

DRAINAGE MAP (2)

SHEET NO.
 7



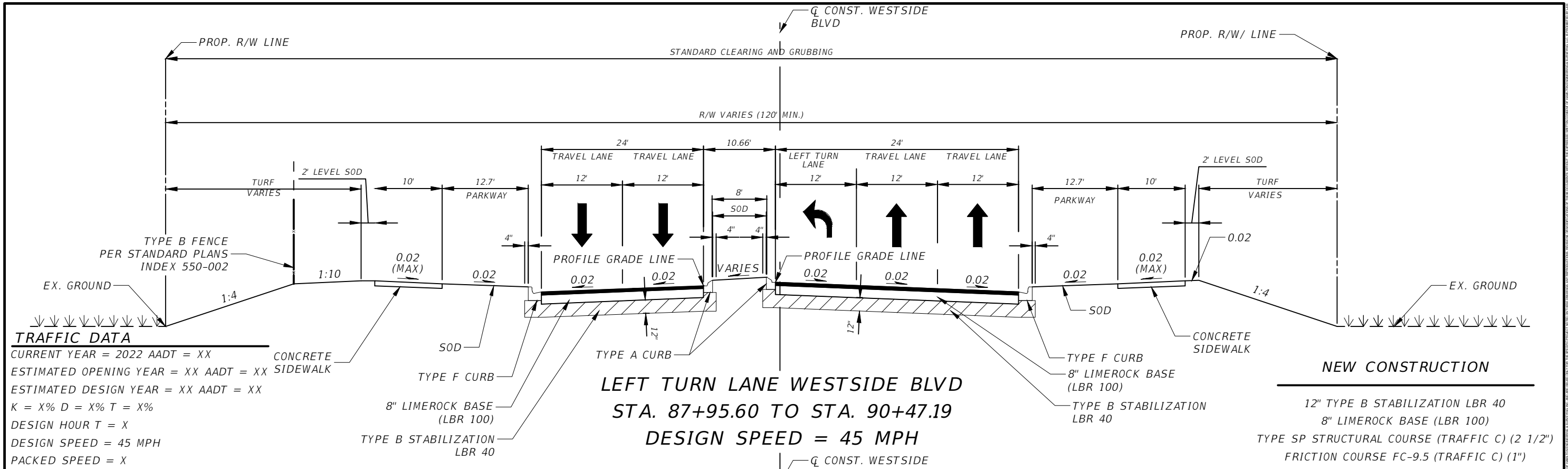
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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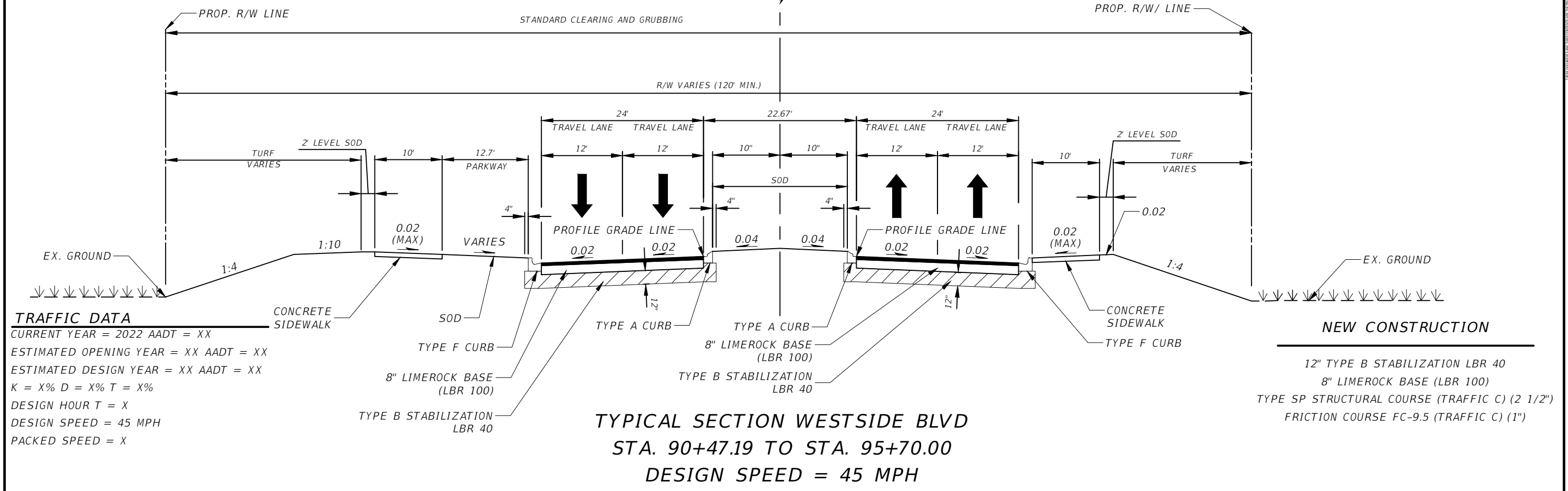
TYPICAL SECTION

SHEET NO.
8



TRAFFIC DATA
 CURRENT YEAR = 2022 AADT = XX
 ESTIMATED OPENING YEAR = XX AADT = XX
 ESTIMATED DESIGN YEAR = XX AADT = XX
 K = X% D = X% T = X%
 DESIGN HOUR T = X
 DESIGN SPEED = 45 MPH
 PACKED SPEED = X

NEW CONSTRUCTION
 12" TYPE B STABILIZATION LBR 40
 8" LIMEROCK BASE (LBR 100)
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2")
 FRICTION COURSE FC-9.5 (TRAFFIC C) (1")



TRAFFIC DATA
 CURRENT YEAR = 2022 AADT = XX
 ESTIMATED OPENING YEAR = XX AADT = XX
 ESTIMATED DESIGN YEAR = XX AADT = XX
 K = X% D = X% T = X%
 DESIGN HOUR T = X
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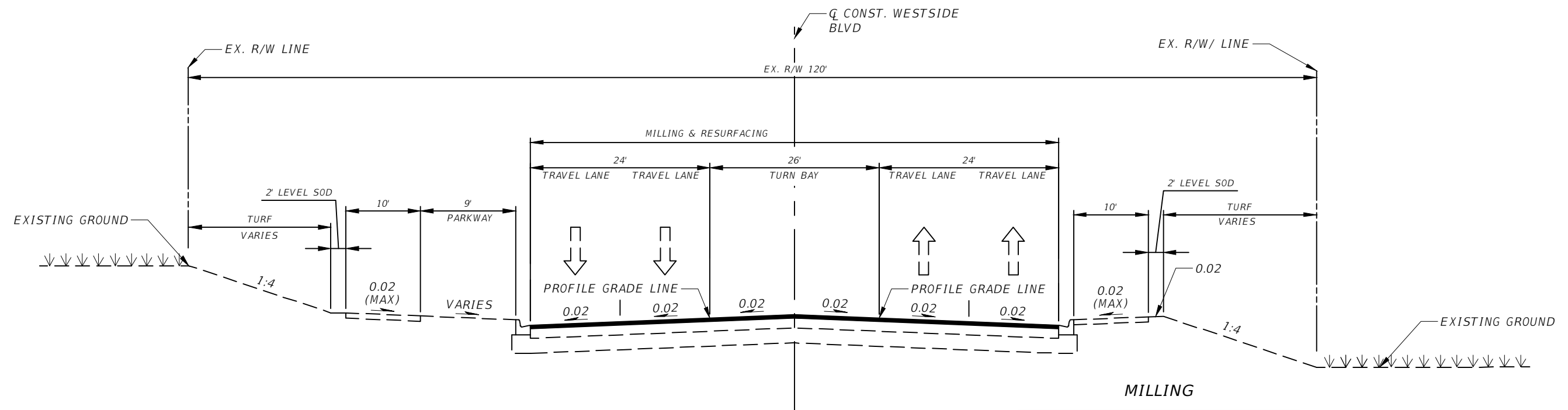
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 ORLANDO, FL 32751
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TYPICAL SECTION

SHEET NO.
 9



TYPICAL SECTION WESTSIDE BLVD
STA. 95+70.00 TO STA. 95+90.00
DESIGN SPEED = 45 MPH

MILLING
 MILL EXISTING ASPHALT PAVEMENT (1")
RESURFACING
 FRICTION COURSE FC-9.5 (TRAFFIC C) (1")

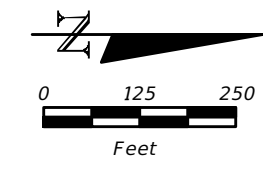
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
 P.E. LICENSE NUMBER 38794
 HAMILTON ENGINEERING & SURVEYING, LLC
 431 E. HORATIO AVE., SUITE 260
 ORLANDO, FL 32751
 (407) 629-8330 EXT 150








TYPICAL SECTION

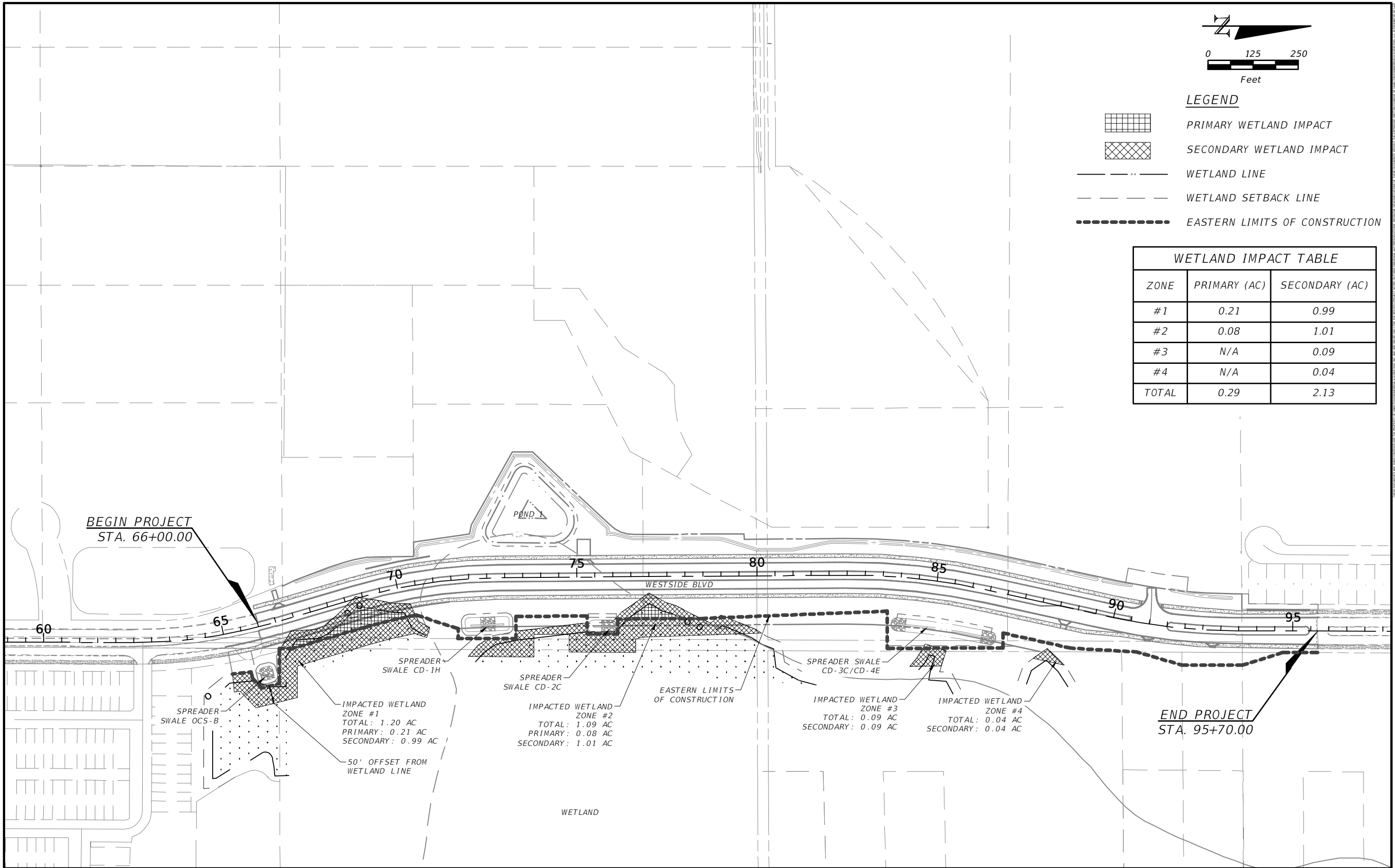
SHEET NO.
10



LEGEND

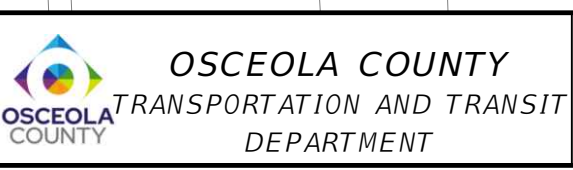
-  PRIMARY WETLAND IMPACT
-  SECONDARY WETLAND IMPACT
-  WETLAND LINE
-  WETLAND SETBACK LINE
-  EASTERN LIMITS OF CONSTRUCTION

WETLAND IMPACT TABLE		
ZONE	PRIMARY (AC)	SECONDARY (AC)
#1	0.21	0.99
#2	0.08	1.01
#3	N/A	0.09
#4	N/A	0.04
TOTAL	0.29	2.13



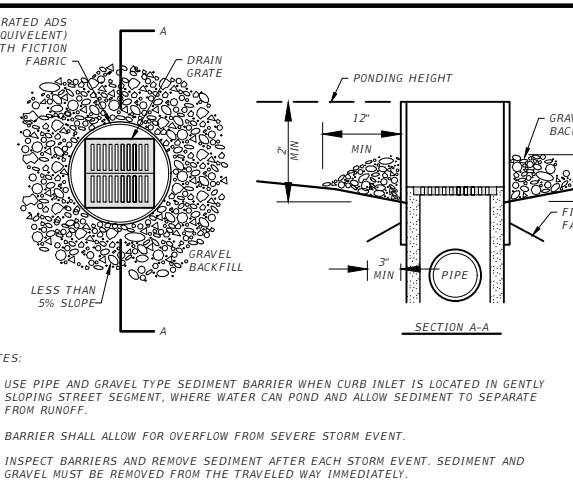
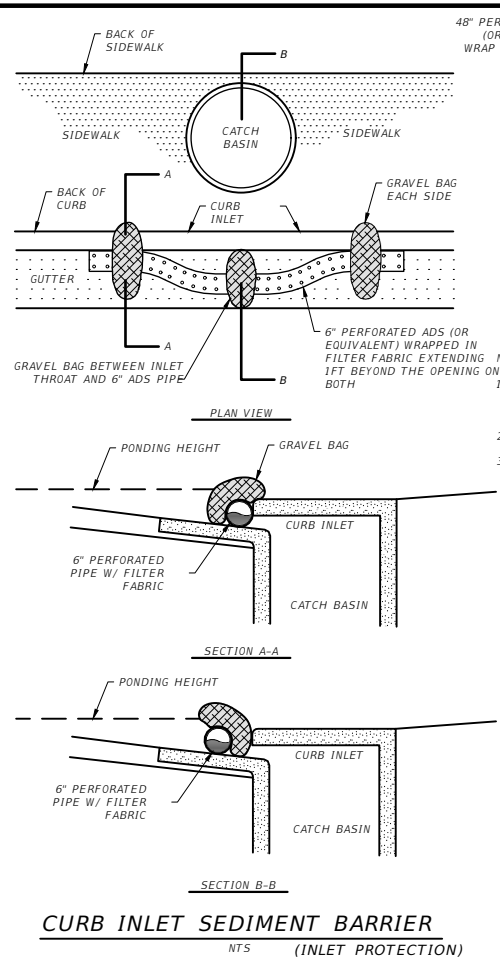
REVISIONS			
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WETLAND IMPACT PLAN

SHEET NO.
11

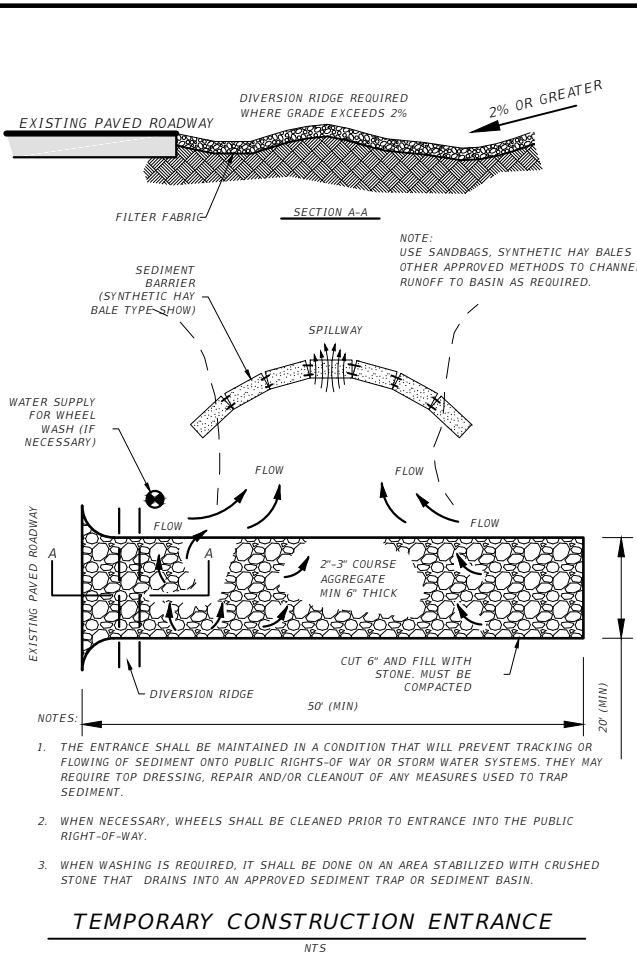
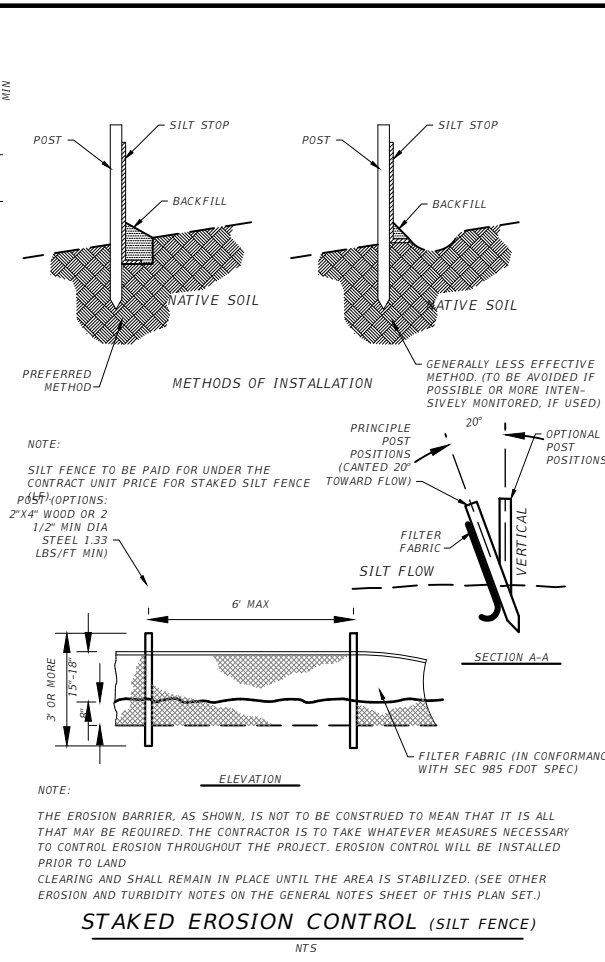


NOTES:

1. USE PIPE AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%).
2. THE TOP OF STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.
3. ALL EXISTING INLETS LOCATED ON EXISTING ROAD TO HAVE INLET PROTECTION DURING CONSTRUCTION.
4. ALL SILT FENCE INSTALLED TO BE FDOT TYPE III.
5. WATER TRUCK SHALL BE ONSITE DURING CONSTRUCTION TO KEEP DUST LEVEL AT A MINIMUM (OR USE OTHER METHODOLOGY FOR DUST ABATEMENT/CONTROL APPROVED BY CITY/COUNTY).



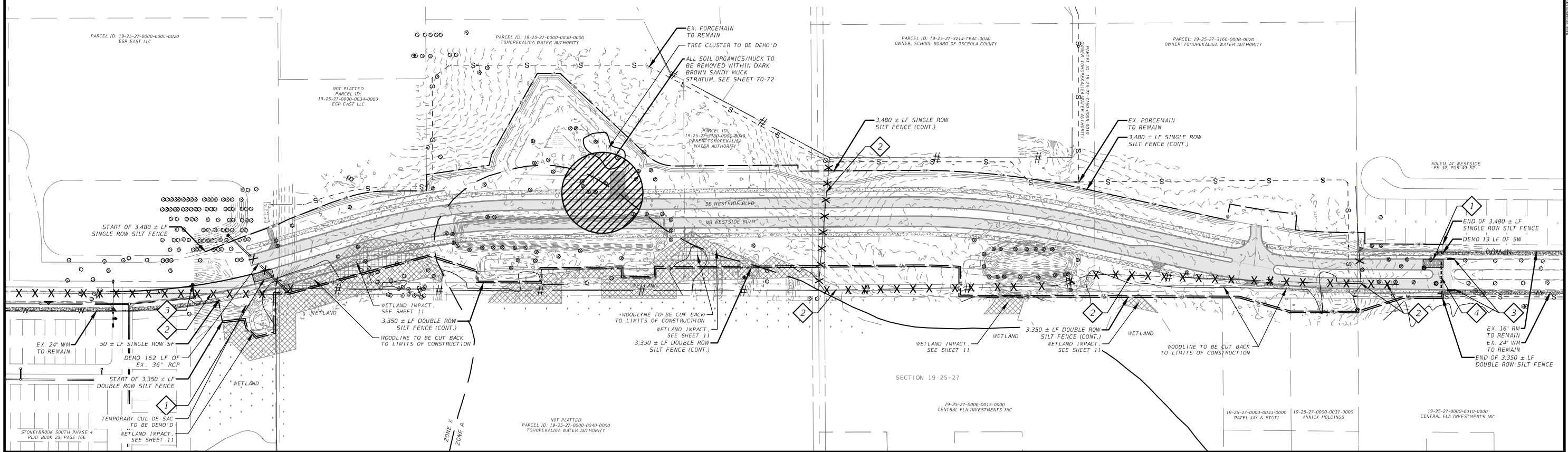
LEGEND

- SF ——— SINGLE ROW SILT FENCE
- SF ——— DOUBLE ROW SILT FENCE
- X TO BE DEMOLISHED
- SPOT ELEVATION
- - - EX. CONTOUR
- X EX. TREE TO REMAIN AT CONTRACTORS DISCRETION
- WETLAND IMPACTS
- REMOVE SOIL ORGANICS
- - - S EX. FM
- # EX. FENCE

DEMOLITION NOTES

1. TEMPORARY CONSTRUCTION ENTRANCE
2. EXISTING FENCE TO BE DEMOLISHED
3. INLET PROTECTION SYSTEM
4. EXISTING SIGNS TO BE DEMOLISHED

Scale: 0 125 250 Feet



REVISIONS	
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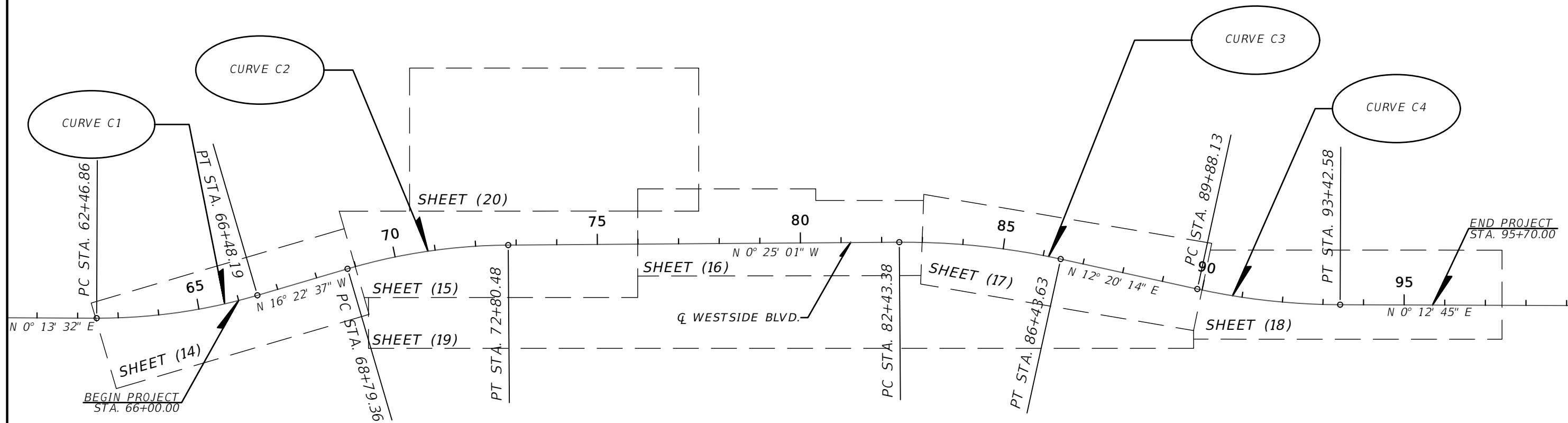
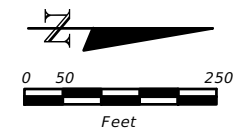
OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

DEMOLITION AND EROSION CONTROL PLAN

SHEET NO. 12

CURVE AND COORDINATE DATA TABLE

CURVE NO.	LINE	P.C. STATION	P.I. STATION	P.T. STATION	Delta (Δ)	T	L	R	e	DESIGN SPEED	PC NORTH	PC EAST	PI NORTH	PI EAST	PT NORTH	PT EAST	CENTER NORTH	CENTER EAST
C1	WESTSIDE BOULEVARD	62+46.86	64+48.95	66+48.19	016° 36' 09"	202.08	401.33	1385.00	14.66	45	1,439,038.05	447,519.67	1,439,240.12	447,520.47	1,439,434.01	447,463.49	446,134.68	446,134.68
C2	WESTSIDE BOULEVARD	68+79.36	70+81.23	72+80.48	015° 57' 36"	201.87	401.12	1440.00	14.08	45	1,439,655.79	447,398.31	1,439,849.47	447,341.39	1,440,051.33	447,339.92	448,779.88	448,779.88
C3	WESTSIDE BOULEVARD	82+43.38	84+44.33	86+43.63	012° 45' 15"	200.95	400.25	1798.02	11.19	45	1,441,014.20	447,332.91	1,441,215.15	447,331.45	1,441,411.47	447,374.39	449,130.89	449,130.89
C4	WESTSIDE BOULEVARD	89+88.13	91+66.02	93+42.58	012° 07' 29"	177.89	354.45	1675.00	9.42	45	1,441,748.01	447,448.00	1,441,921.80	447,486.01	1,442,099.69	447,486.67	445,811.68	445,811.68



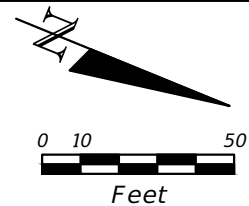
REVISIONS			
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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
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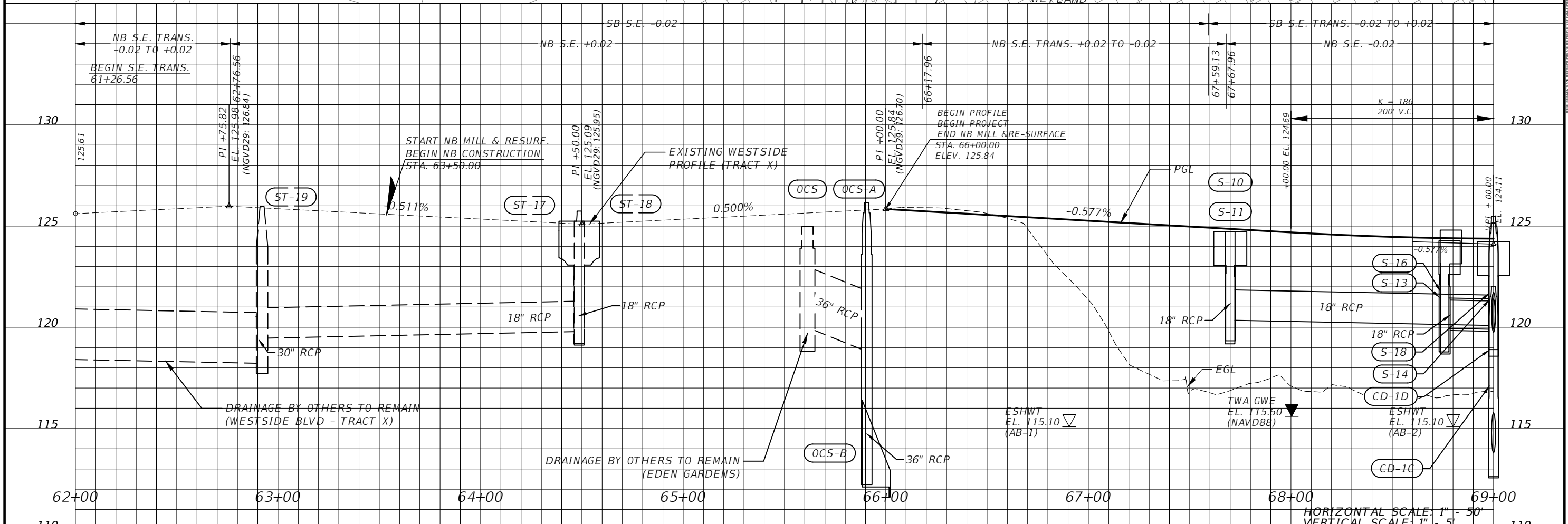
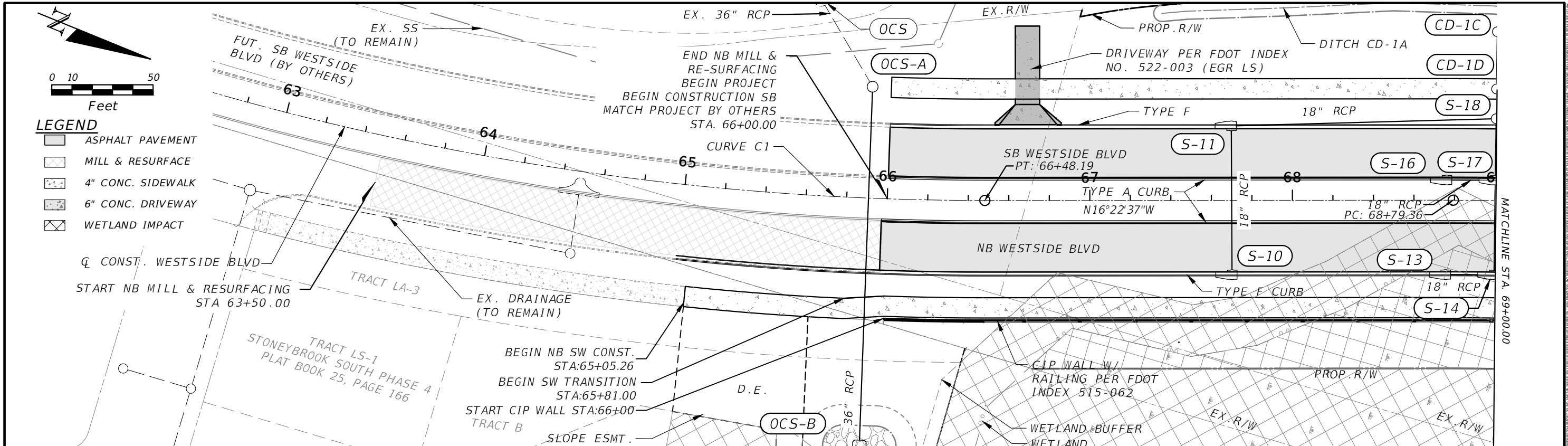
PROJECT LAYOUT

SHEET NO.
13



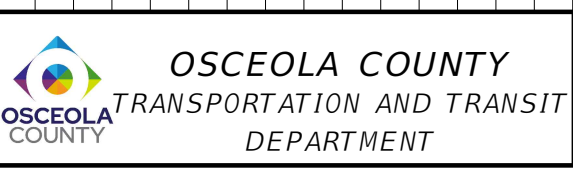
LEGEND

- ASPHALT PAVEMENT
- MILL & RESURFACE
- 4" CONC. SIDEWALK
- 6" CONC. DRIVEWAY
- WETLAND IMPACT



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

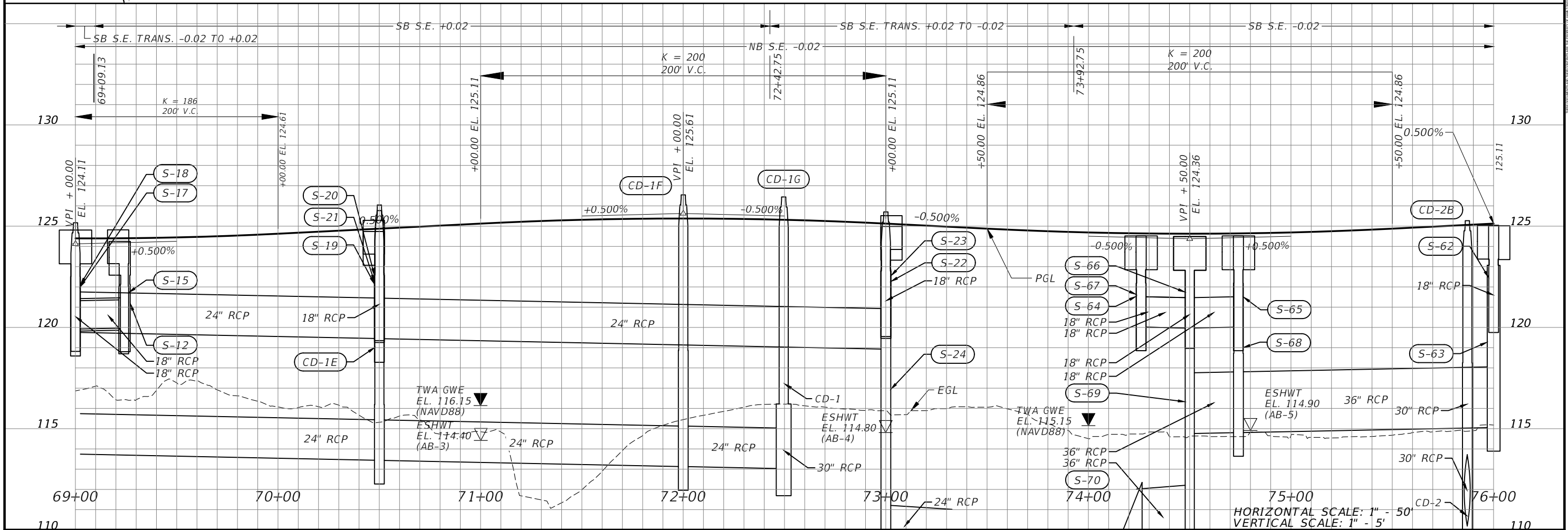
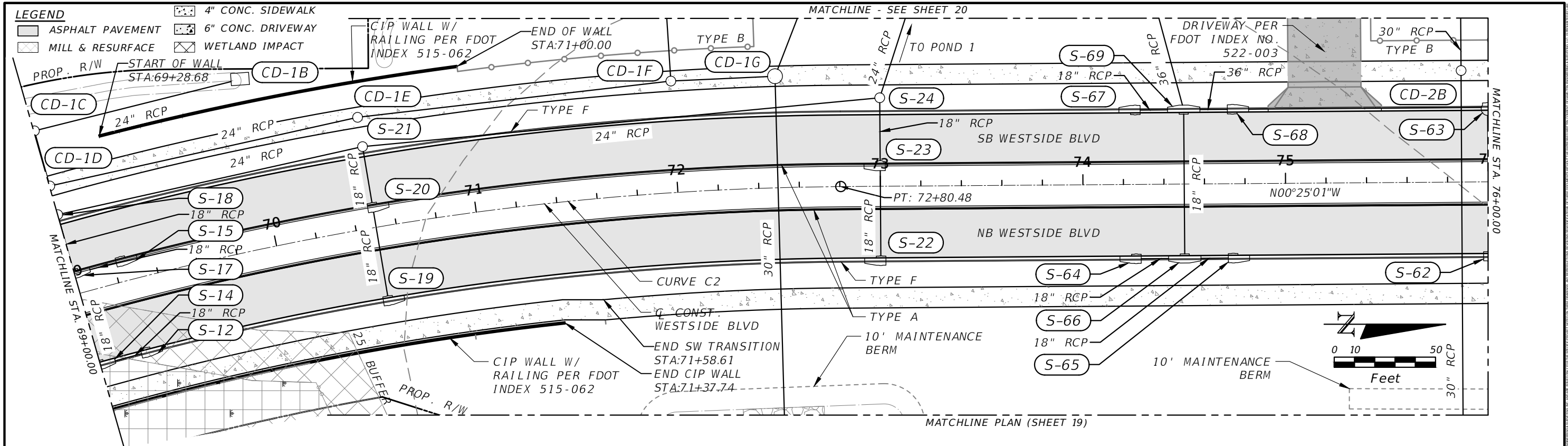
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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

ROADWAY PLAN AND PROFILES

SHEET NO. 14



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

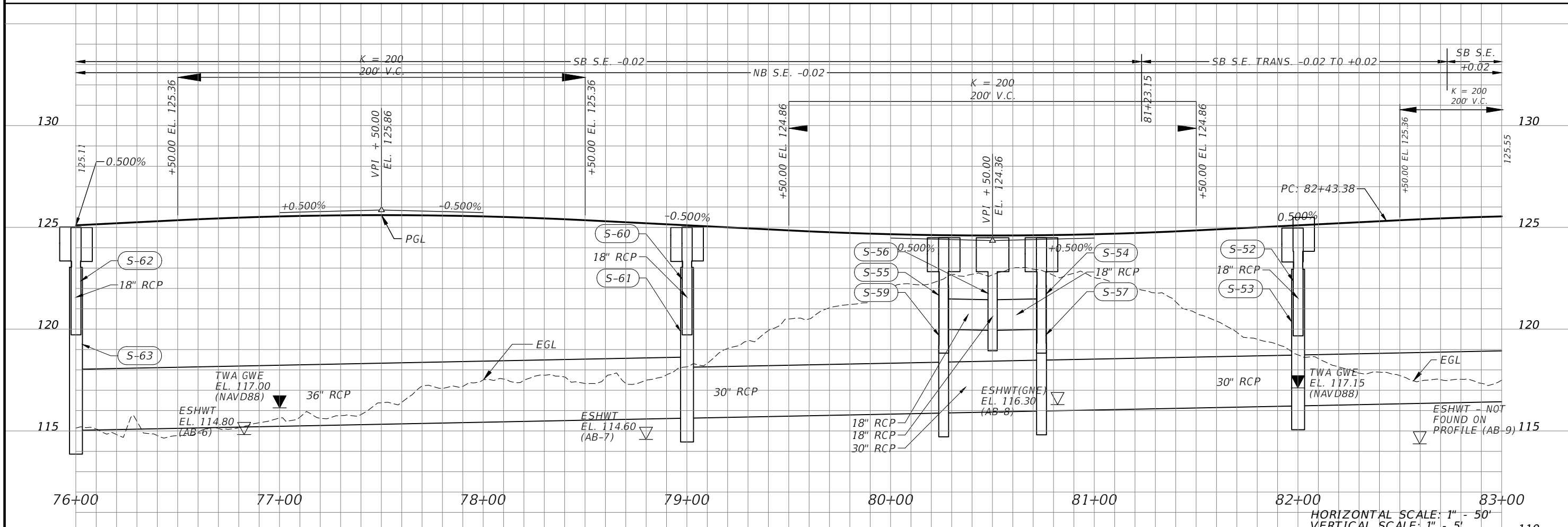
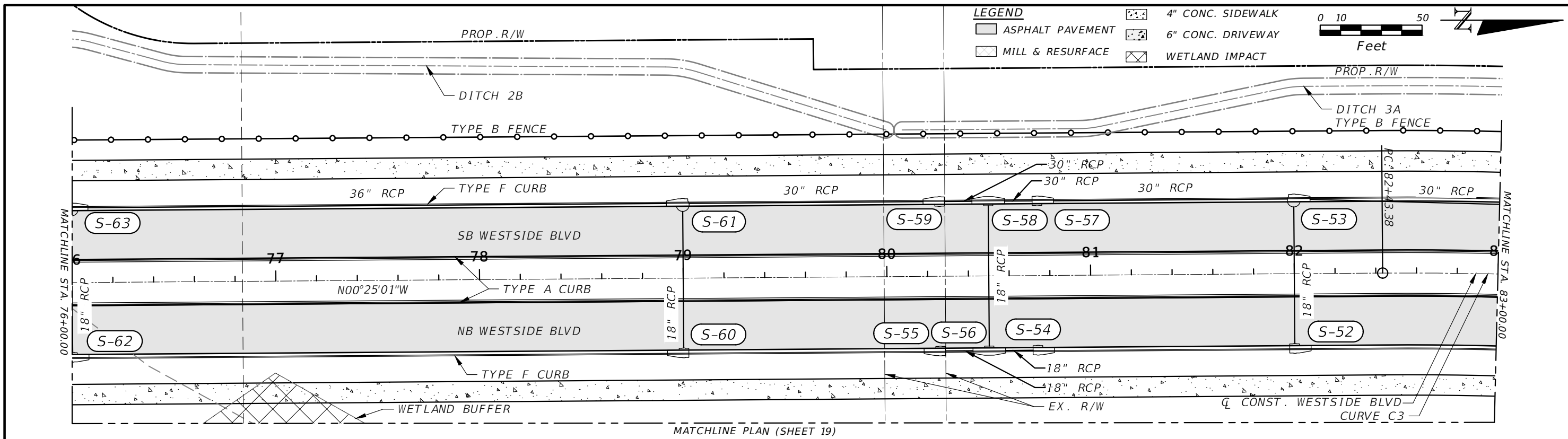
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

ROADWAY PLAN AND PROFILES

SHEET NO. 15



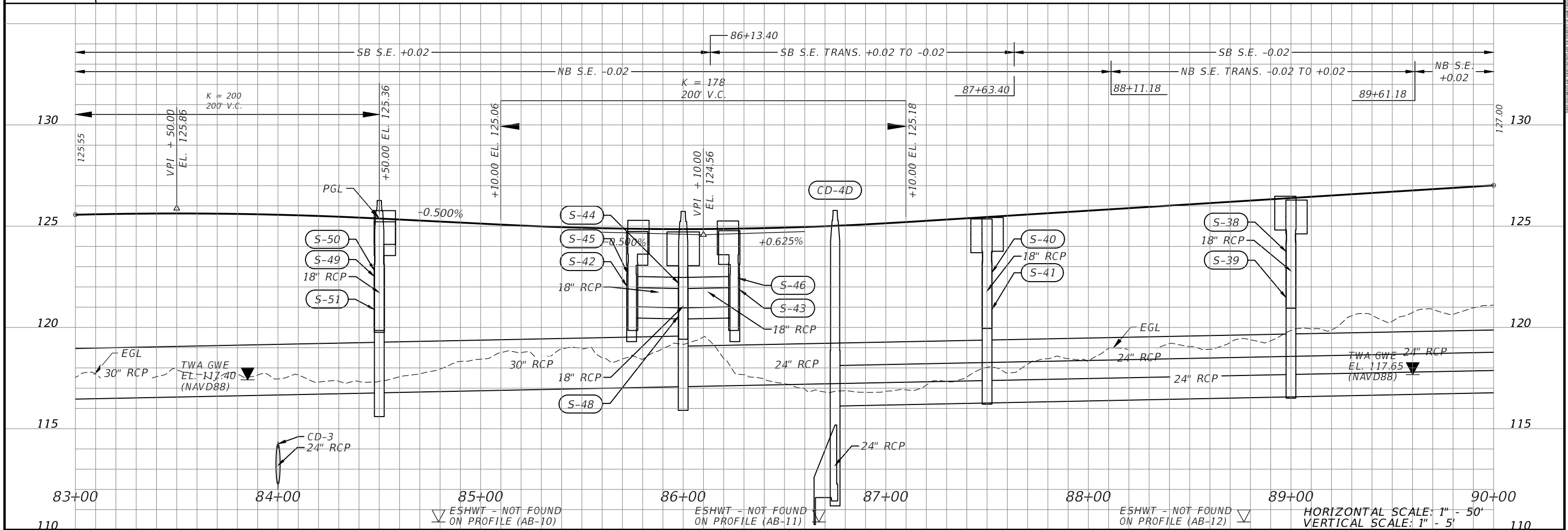
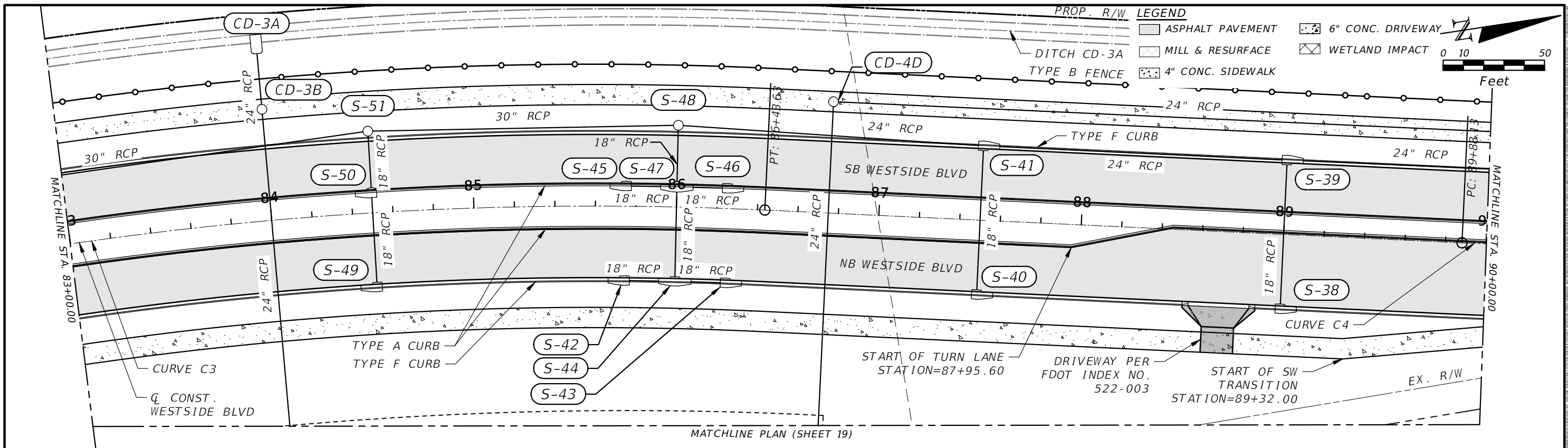
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

ROADWAY PLAN AND PROFILES

SHEET NO. 16



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

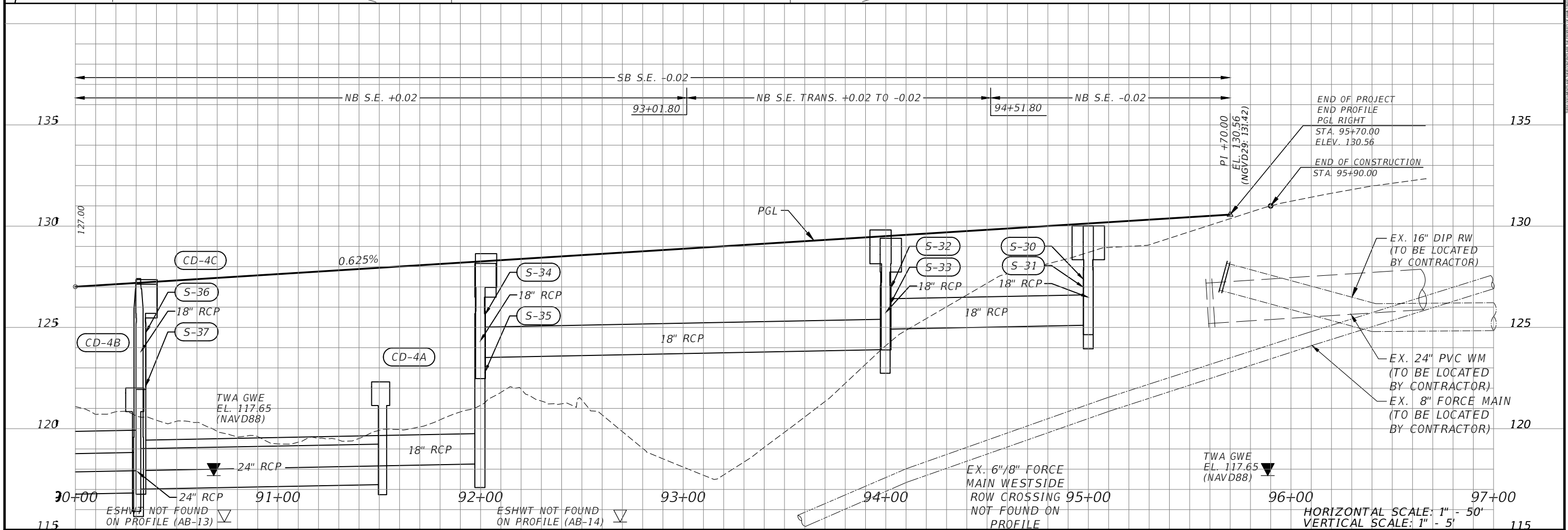
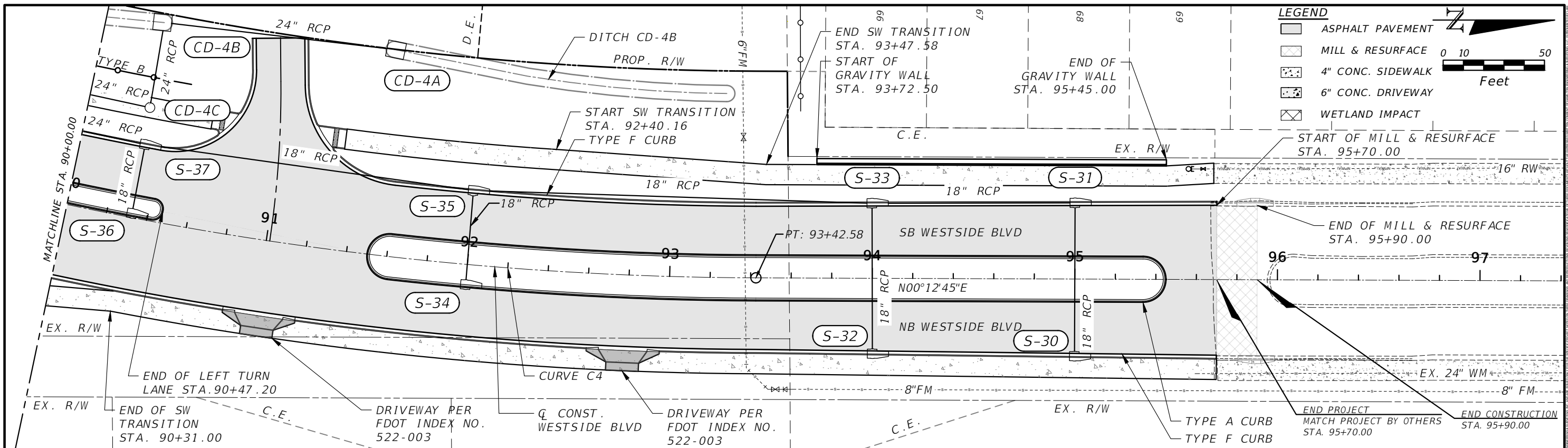
DAVID A. REID, P.E.
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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

ROADWAY PLAN AND PROFILES

HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

SHEET NO. 17



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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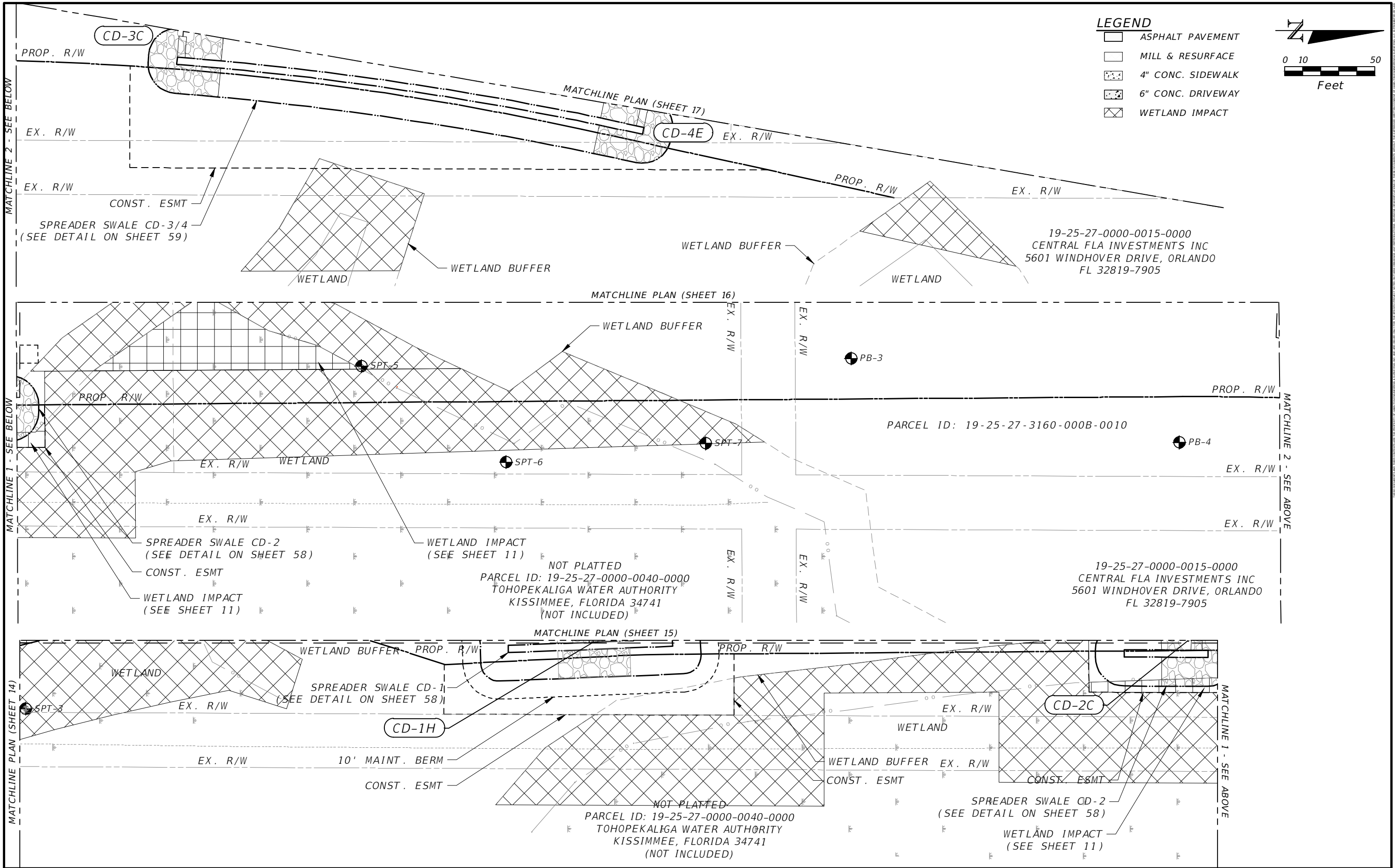
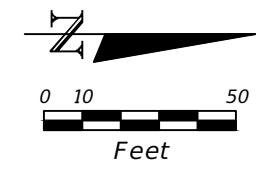


OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT DEPARTMENT

ROADWAY PLAN AND PROFILES

SHEET NO. 18

- LEGEND**
- ASPHALT PAVEMENT
 - MILL & RESURFACE
 - 4" CONC. SIDEWALK
 - 6" CONC. DRIVEWAY
 - WETLAND IMPACT



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION






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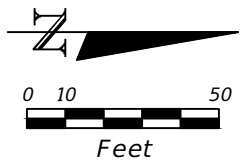


ROADWAY PLANS

SHEET NO.
19

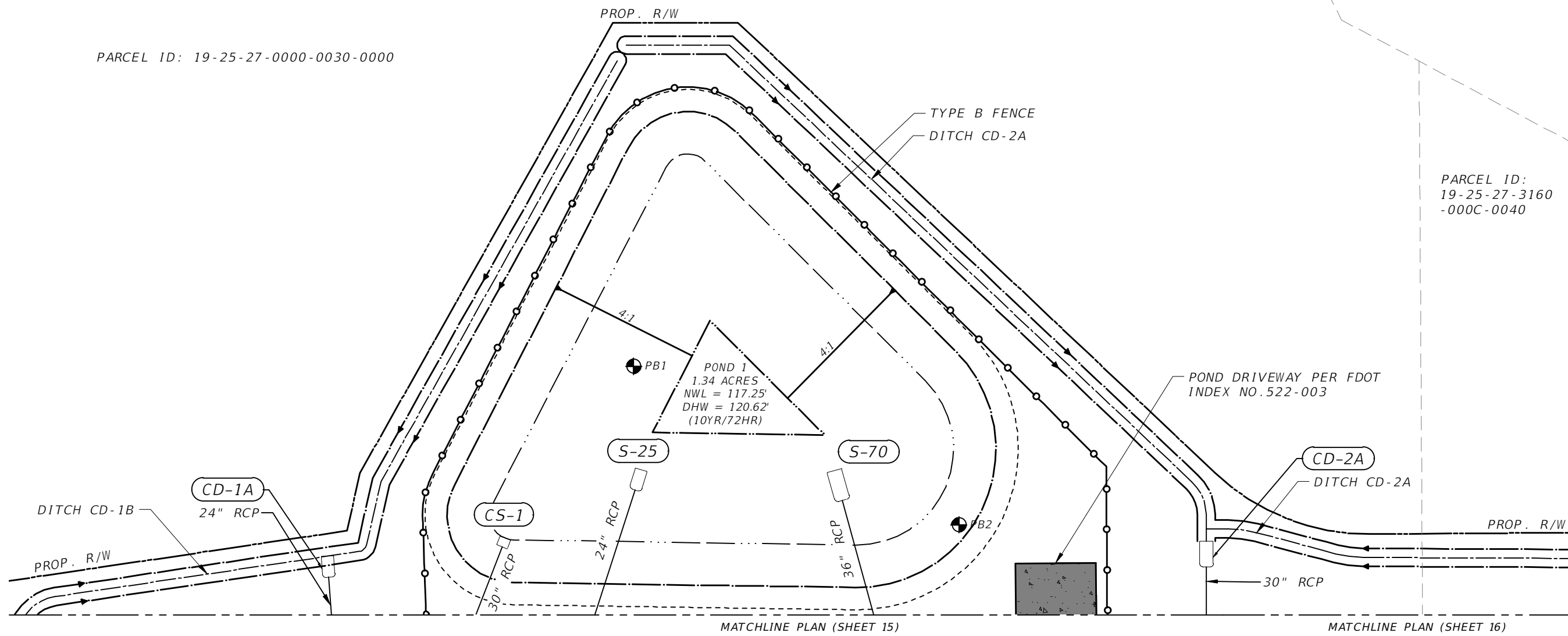
LEGEND

-  ASPHALT PAVEMENT
-  MILL & RESURFACE
-  4" CONC. SIDEWALK
-  6" CONC. DRIVEWAY
-  WETLAND IMPACT



PARCEL ID: 19-25-27-0000-0030-0000

PARCEL ID:
19-25-27-3160
-000C-0040



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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(407) 629-8330 EXT 150



ROADWAY PLANS

SHEET NO.
20

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	S-10	67+70.17	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-11	67+69.85	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-12	69+24.58	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-13	68+75.52	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-14	69+00.00	R	TYPE 6 PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-15	69+23.81	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-16	68+76.16	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-17	69+00.00	L	TYPE 6 PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-18	69+00.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-19	70+50.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-20	70+50.00	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-21	70+50.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 18" Round Concrete Pipe 24" Round Concrete Pipe
P	S-22	73+00.00	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-23	73+00.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-24	73+00.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe 18" Round Concrete Pipe
P	S-25	73+32.32	L	24" MES PER FDOT INDEX NO. 430-021 (1:4)	24" Round Concrete Pipe

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	OCS	65+61.33	L	EX. CONTROL STRUCTURE (EGR) MODIFIED TYPE E	36" Round Concrete Pipe
P	OCS-A	65+90.53	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	36" Round Concrete Pipe 36" Round Concrete Pipe
P	OCS-B	65+91.17	R	CD 36" MES PER FDOT INDEX NO. 430-021 (1:4)	36" Round Concrete Pipe

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	S-30	95+00.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-31	95+00.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-32	94+00.22	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-33	93+99.78	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-34	92+00.00	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-35	91+99.72	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-36	90+32.38	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-37	90+32.38	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	24" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-38	89+00.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-39	89+00.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	24" Round Concrete Pipe 18" Round Concrete Pipe 24" Round Concrete Pipe
P	S-40	87+50.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-41	87+50.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	24" Round Concrete Pipe 18" Round Concrete Pipe 24" Round Concrete Pipe
P	S-42	85+74.53	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-43	86+25.48	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-44	86+00.01	R	TYPE 6 PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-45	85+75.15	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-46	86+24.84	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-47	86+00.00	L	TYPE 6 PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-48	86+00.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	30" Round Concrete Pipe 24" Round Concrete Pipe 18" Round Concrete Pipe
P	S-49	84+50.00	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-50	84+50.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe

QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	S-51	84+50.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	30" Round Concrete Pipe 30" Round Concrete Pipe 18" Round Concrete Pipe
P	S-52	82+00.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-53	82+00.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	30" Round Concrete Pipe 18" Round Concrete Pipe 30" Round Concrete Pipe
P	S-54	80+74.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-55	80+26.00	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-56	80+50.00	R	TYPE 6 PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-57	80+74.03	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	30" Round Concrete Pipe 30" Round Concrete Pipe
P	S-58	80+50.00	L	TYPE 6 PER FDOT INDEX NO. 425-021	30" Round Concrete Pipe 30" Round Concrete Pipe 18" Round Concrete Pipe
P	S-59	80+26.00	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	30" Round Concrete Pipe 30" Round Concrete Pipe
P	S-60	79+00.00	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-61	79+00.00	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	36" Round Concrete Pipe 30" Round Concrete Pipe 18" Round Concrete Pipe
P	S-62	76+00.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-63	76+00.00	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	36" Round Concrete Pipe 36" Round Concrete Pipe 18" Round Concrete Pipe
P	S-64	74+26.00	R	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-65	74+74.00	R	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-66	74+50.00	R	TYPE 6 PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe
P	S-67	74+26.00	L	CURB INLET TYPE 5 (LEFT) PER FDOT INDEX NO. 425-021	18" Round Concrete Pipe
P	S-68	74+74.03	L	CURB INLET TYPE 5 (RIGHT) PER FDOT INDEX NO. 425-021	36" Round Concrete Pipe 36" Round Concrete Pipe
P	S-69	74+50.00	L	TYPE 6 PER FDOT INDEX NO. 425-021	36" Round Concrete Pipe 18" Round Concrete Pipe 18" Round Concrete Pipe 36" Round Concrete Pipe
P	S-70	74+23.70	L	36" MES PER FDOT INDEX NO. 430-021 (1:4)	36" Round Concrete Pipe

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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(407) 629-8330 EXT 150



SUMMARY OF DRAINAGE STRUCTURES

SHEET NO.
21

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	CD-1A	71+99.93	L	CD 24" MES (1:4) PER FDOT INDEX NO. 430-021	24" Round Concrete Pipe
P	CD-1B	69+99.77	L	TYPE C DBI PER FDOT INDEX NO. 425-052 (SINGLE SLOT)	24" Round Concrete Pipe
P	CD-1C	69+00.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-1D	69+00.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-1E	70+50.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-1F	72+00.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-1G	72+49.57	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	30" Round Concrete Pipe 30" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-1H	72+49.38	R	30" U-TYPE ENDWALL PER FDOT INDEX NO. 430-011 (1:4)	30" Round Concrete Pipe
P	CS-1	72+73.20	L	CONTROL STRUCTURE MODIFIED TYPE D DBI PER FDOT INDEX NO. 425-052	30" Round Concrete Pipe

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	CD-3A	84+00.04	L	CD 24" MES PER FDOT INDEX NO. 430-021 (1:4)	24" Round Concrete Pipe
P	CD-3B	84+00.03	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-3C	83+99.94	R	CD 24" U-TYPE CONCRETE ENDWALL W/ BAFFLES PER FDOT INDEX NO. 430-011 (1:4)	24" Round Concrete Pipe

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	CD-4A	-101.86 L	24" RCP	24.0"	114.21'
F	CD-4B	-97.55 L	24" RCP	24.0"	42.56'
F	CD-4C	-55.00 L	24" RCP	24.0"	354.79'
F	CD-4D	-55.00 L	24" RCP	24.0"	171.77'

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	CD-2A	75+87.05	L	CD 30" MES PER FDOT INDEX NO. 430-021 (1:4)	30" Round Concrete Pipe
P	CD-2B	75+87.03	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	30" Round Concrete Pipe 30" Round Concrete Pipe
P	CD-2C	75+86.78	R	30" MES PER FDOT INDEX NO. 430-021 (1:4)	30" Round Concrete Pipe

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	S-11	-36.70 L	18" RCP	18.0"	130.77'
F	S-17	-9.96 L	18" RCP	18.0"	30.37'
F	S-10	36.71 R	18" RCP	18.0"	73.41'
F	S-14	37.58 R	18" RCP	18.0"	47.54'
F	S-18	-40.33 L	24" RCP	24.0"	154.13'
F	S-19	36.71 R	18" RCP	18.0"	46.65'
F	S-21	-40.33 L	24" RCP	24.0"	256.41'
F	S-22	36.71 R	18" RCP	18.0"	45.79'
F	S-24	-43.66 L	24" RCP	24.0"	104.13'
F	S-20	-9.94 L	18" RCP	18.0"	30.39'
F	S-23	-10.20 L	18" RCP	18.0"	33.46'
F	S-13	36.66 R	18" RCP	18.0"	23.95'
F	S-12	36.66 R	18" RCP	18.0"	23.95'
F	S-15	-9.95 L	18" RCP	18.0"	23.97'
F	S-16	-9.95 L	18" RCP	18.0"	23.98'

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	S-66	36.71 R	18" RCP	18.0"	73.41'
F	S-30	38.07 R	18" RCP	18.0"	75.67'
F	S-32	37.33 R	18" RCP	18.0"	74.34'
F	S-31	-37.60 L	18" RCP	18.0"	100.22'
F	S-34	10.00 R	18" RCP	18.0"	46.66'
F	S-33	-37.00 L	18" RCP	18.0"	196.84'
F	S-35	-36.66 L	18" RCP	18.0"	163.61'
F	S-36	-2.00 L	18" RCP	18.0"	34.66'
F	S-37	-36.66 L	24" RCP	24.0"	131.40'
F	S-38	36.71 R	18" RCP	18.0"	73.41'
F	S-40	36.71 R	18" RCP	18.0"	73.41'
F	S-39	-36.71 L	24" RCP	24.0"	150.00'
F	S-41	-36.71 L	24" RCP	24.0"	151.01'
F	S-44	36.71 R	18" RCP	18.0"	46.66'
F	S-48	-40.33 L	30" RCP	30.0"	153.32'
F	S-49	36.70 R	18" RCP	18.0"	46.66'
F	S-52	36.71 R	18" RCP	18.0"	73.41'
F	S-51	-40.33 L	30" RCP	30.0"	254.31'
F	S-53	-36.70 L	30" RCP	30.0"	125.97'
F	S-56	36.71 R	18" RCP	18.0"	73.41'

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	S-58	-36.70 L	30" RCP	30.0"	24.00'
F	S-60	36.71 R	18" RCP	18.0"	73.41'
F	S-61	-36.70 L	36" RCP	36.0"	300.00'
F	S-63	-36.70 L	36" RCP	36.0"	125.97'
F	S-62	36.71 R	18" RCP	18.0"	73.41'
F	S-69	-36.70 L	36" RCP	36.0"	103.19'
F	S-47	-9.95 L	18" RCP	18.0"	30.38'
F	S-50	-9.96 L	18" RCP	18.0"	30.37'
F	S-68	-36.71 L	36" RCP	36.0"	24.03'
F	S-67	-36.66 L	18" RCP	18.0"	24.00'
F	S-65	36.66 R	18" RCP	18.0"	24.00'
F	S-64	36.66 R	18" RCP	18.0"	24.00'
F	S-55	36.66 R	18" RCP	18.0"	24.00'
F	S-54	36.66 R	18" RCP	18.0"	24.00'
F	S-59	-36.70 L	30" RCP	30.0"	126.00'
F	S-57	-36.67 L	30" RCP	30.0"	24.03'
F	S-46	-9.95 L	18" RCP	18.0"	24.98'
F	S-45	-9.95 L	18" RCP	18.0"	24.98'
F	S-43	36.71 R	18" RCP	18.0"	24.95'
F	S-42	36.69 R	18" RCP	18.0"	24.95'

STRUCTURE TABLE					
QTY	STR. #	STATION	SIDE	DESCRIPTION	CONNECTED PIPE
P	CD-4A	91+51.63	L	TYPE D DBI PER FDOT INDEX NO. 425-052 (SINGLE SLOT)	24" Round Concrete Pipe
P	CD-4B	90+30.25	L	TYPE D DBI PER FDOT INDEX NO. 425-052 (SINGLE SLOT)	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-4C	90+31.21	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-4D	86+75.00	L	TYPE 8 MH PER FDOT INDEX NO. 425-001	24" Round Concrete Pipe 24" Round Concrete Pipe
P	CD-4E	86+74.92	R	CD 24" U-TYPE CONCRETE ENDWALL W/ BAFFLES PER FDOT INDEX NO. 430-011 (1:4)	24" Round Concrete Pipe

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	CS-1	-115.92 L	30" RCP	30.0"	65.83'
F	CD-1A	-105.99 L	24" RCP	24.0"	50.99'
F	CD-1G	-55.00 L	30" RCP	30.0"	170.79'
F	CD-1F	-55.00 L	24" RCP	24.0"	51.46'
F	CD-1B	-84.15 L	24" RCP	24.0"	105.55'
F	CD-1E	-55.00 L	24" RCP	24.0"	155.66'
F	CD-1C	-83.25 L	24" RCP	24.0"	28.25'
F	CD-1D	-55.00 L	24" RCP	24.0"	155.66'

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	OCS-A	-54.98 L	36" RCP	36.0"	177.28'
F	OCS	-97.00 L	36" RCP	36.0"	50.28'

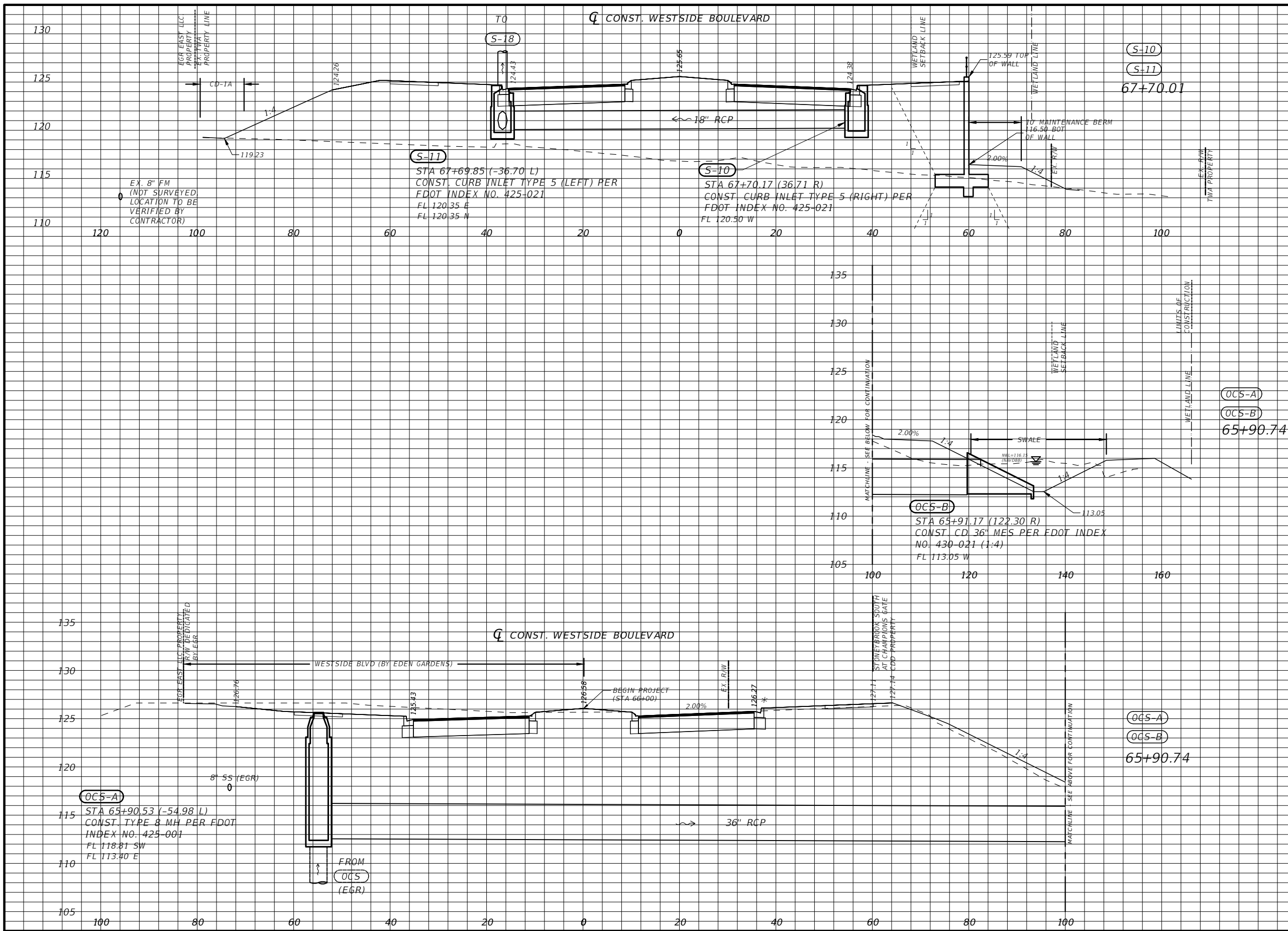
PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	CD-3A	-85.01 L	24" RCP	24.0"	30.01'
F	CD-3B	-55.00 L	24" RCP	24.0"	173.53'

PIPE TABLE					
QTY	STRT #	SIDE	DESCRIPTION	SIZE INCHES	LENGTH
F	CD-2A	-105.39 L	30" RCP	30.0"	50.39'
F	CD-2B	-55.00 L	30" RCP	30.0"	181.29'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150





Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.35	201.57	1089.58	2720.45		
96.11	0.00	67.38	0.00		

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz.
1"=10' Vert.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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431 E. HORATIO AVE., SUITE 260
MAITLAND, FL 32751
(407) 629-8330 EXT 150



DRAINAGE STRUCTURES

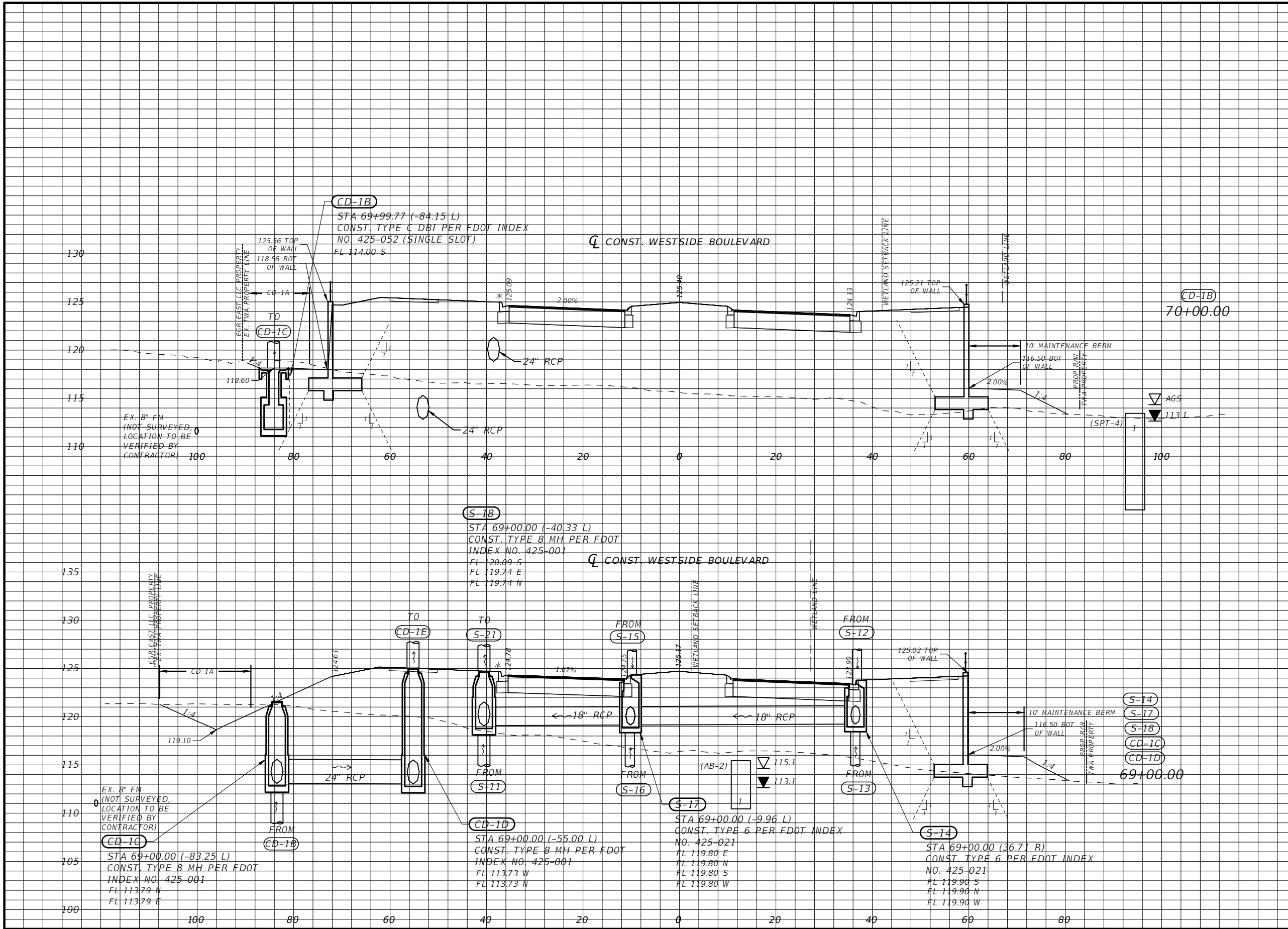
SHEET NO. 23

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

10.23	38.41	1202.53	2059.76		
30.38	73.95	988.94	5003.53		

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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1"=10' Vert.



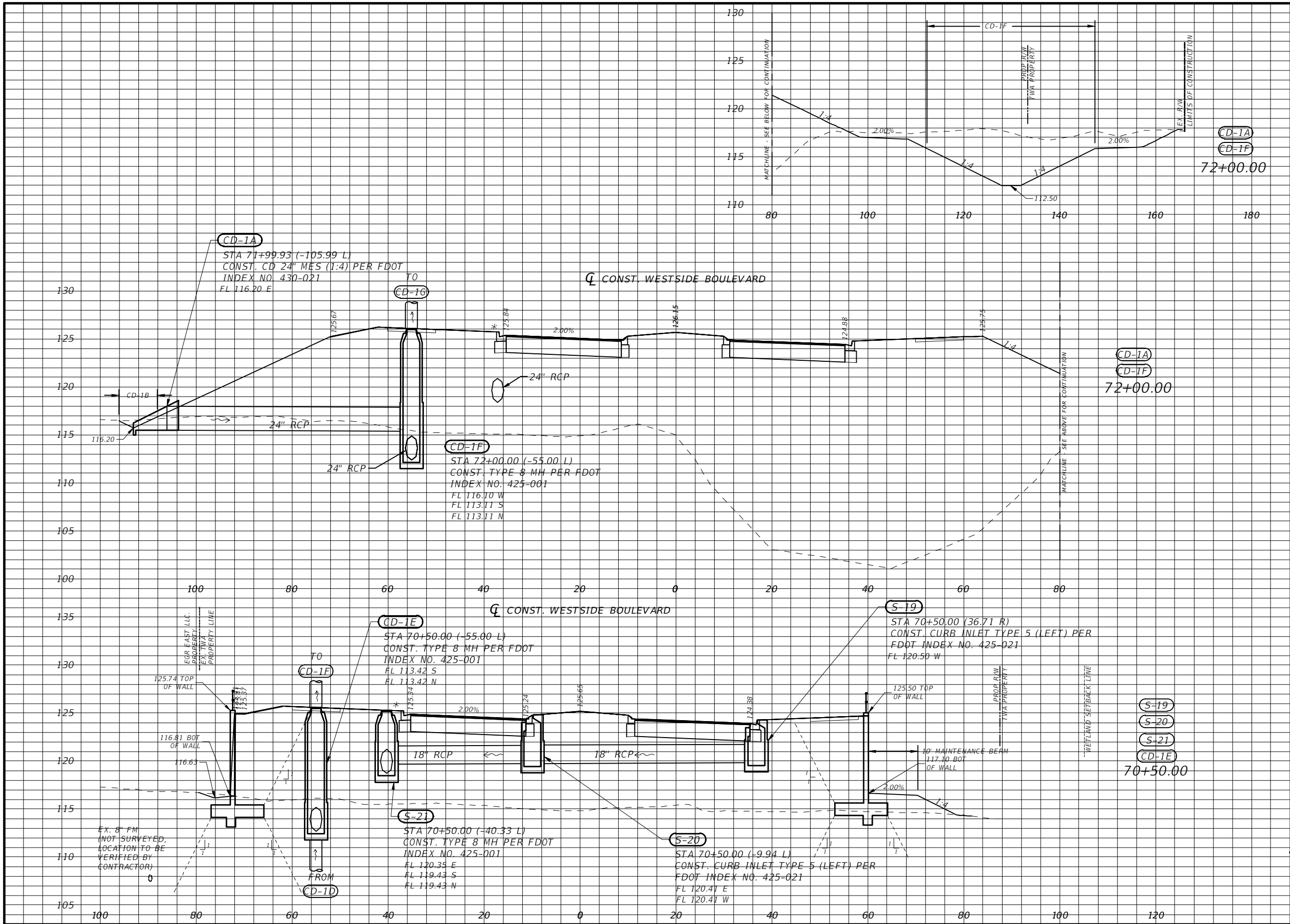
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DRAINAGE STRUCTURES

SHEET NO.
24



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
164.19	141.24	2474.49	4586.48		
		1.65	94.81	1282.37	6315.62

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz
1"=10' Vert.

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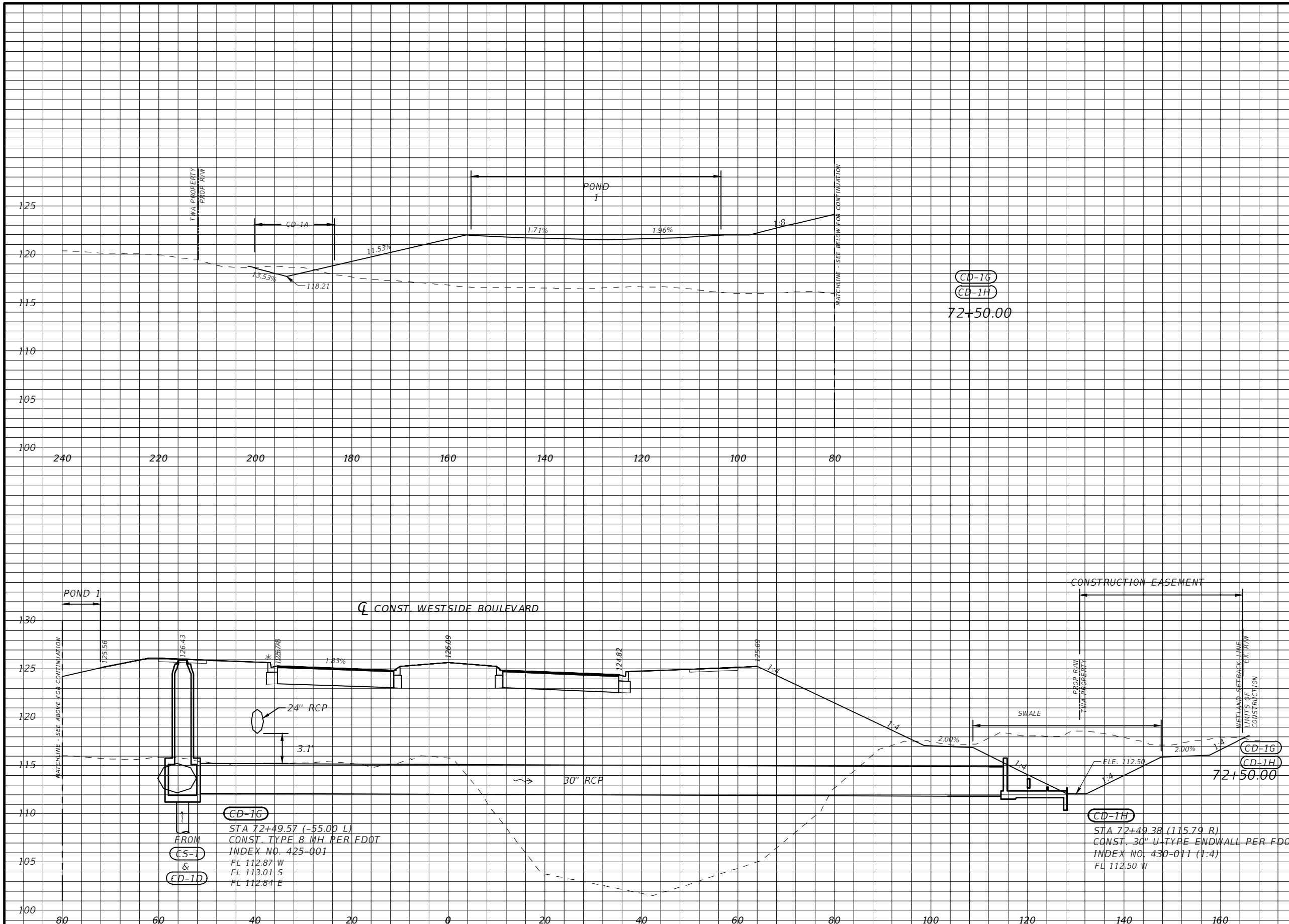


DRAINAGE STRUCTURES

SHEET NO. 25

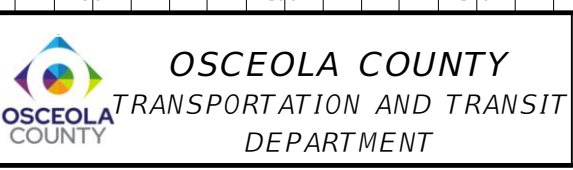
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

186.20	296.74	2887.15	4967.46		
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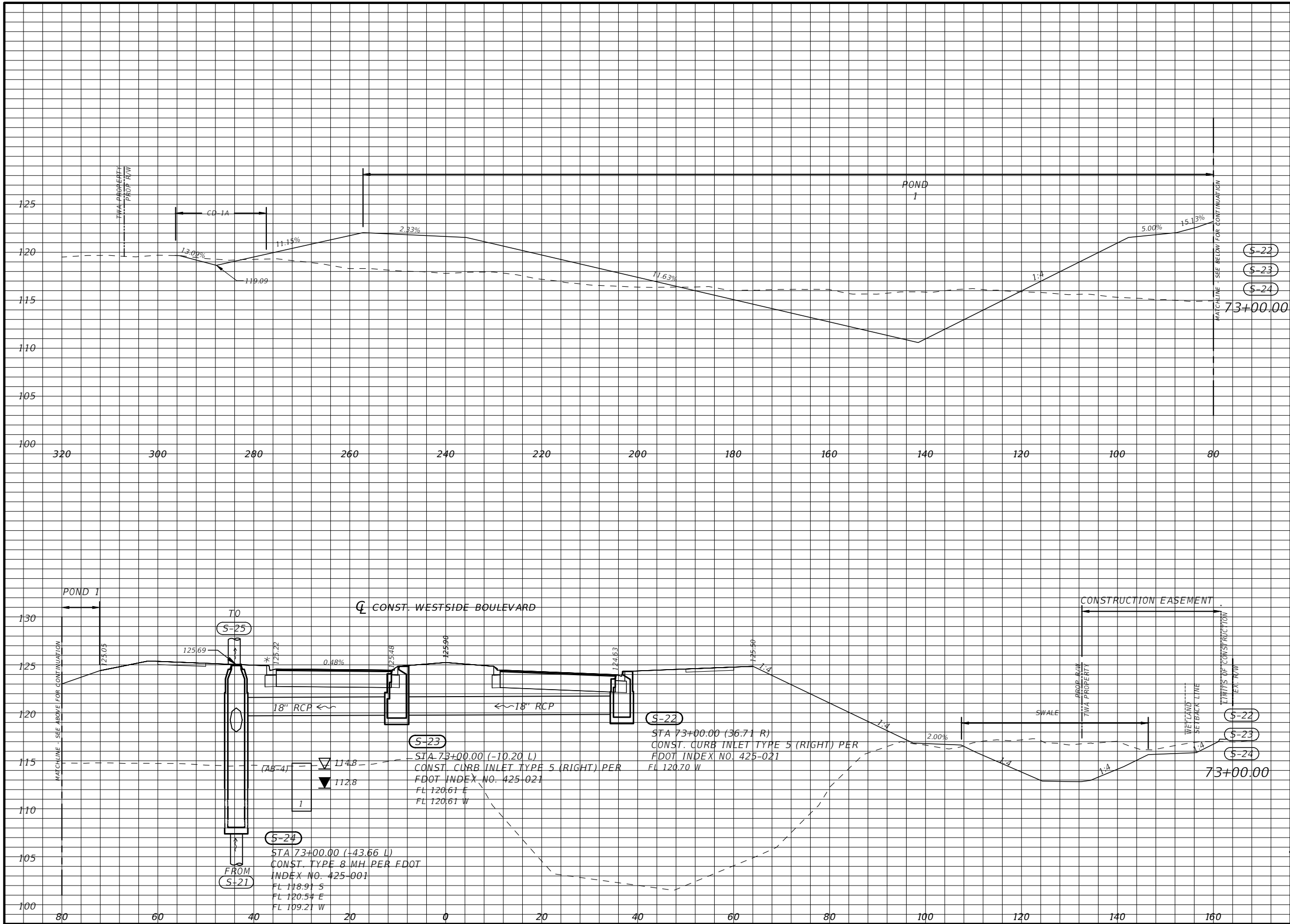
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DRAINAGE STRUCTURES

SHEET NO.
26



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
307.80	453.96	2757.06	5251.68		

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz.
1"=10' Vert.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

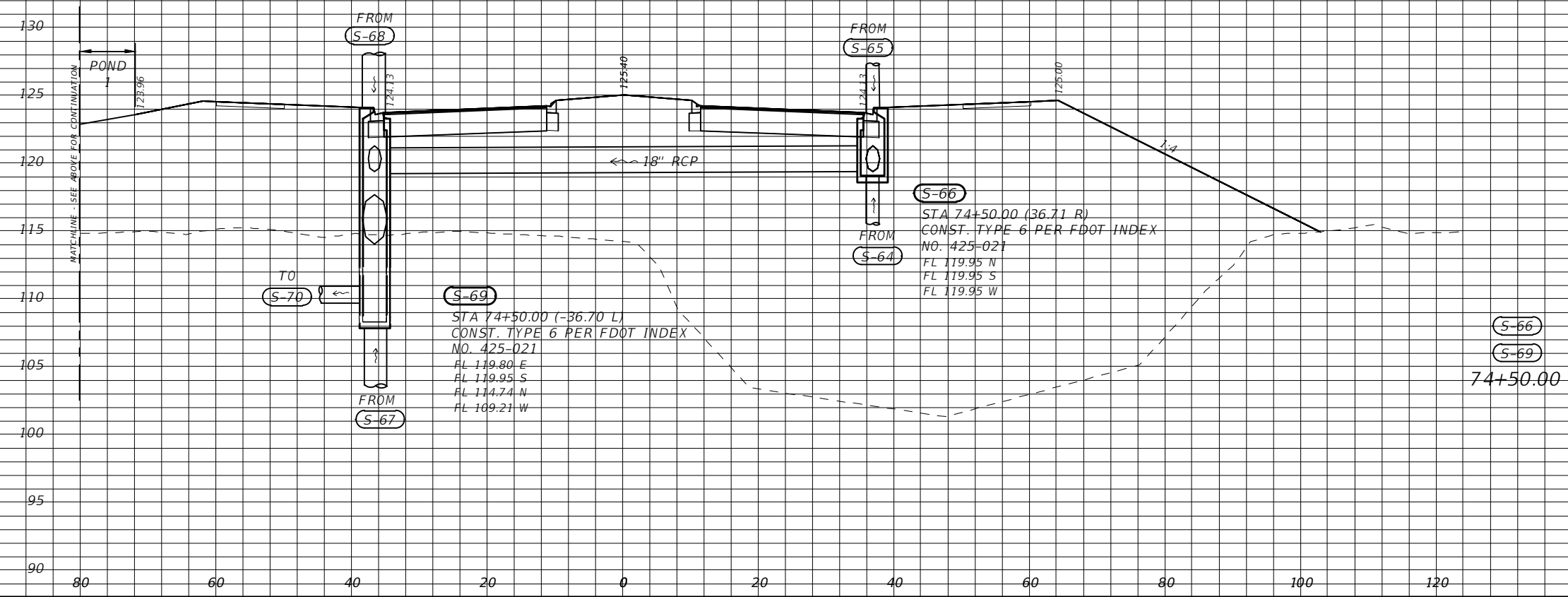
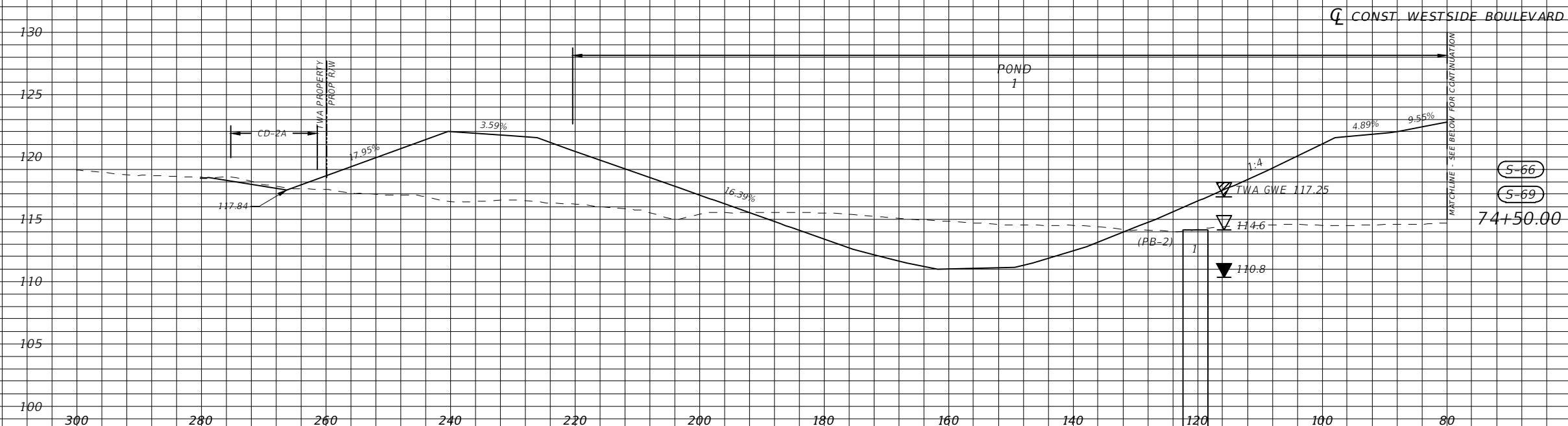
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DRAINAGE STRUCTURES

SHEET NO.
27

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



150.11	1271.97	2900.05	15714.22
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* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz
1"=10' Vert.

REVISIONS			
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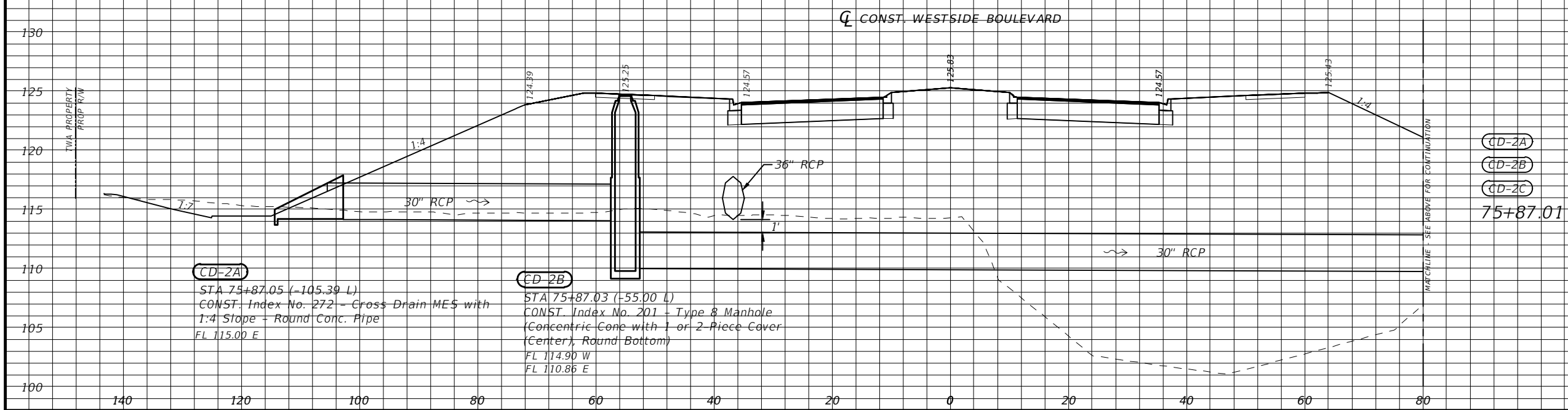
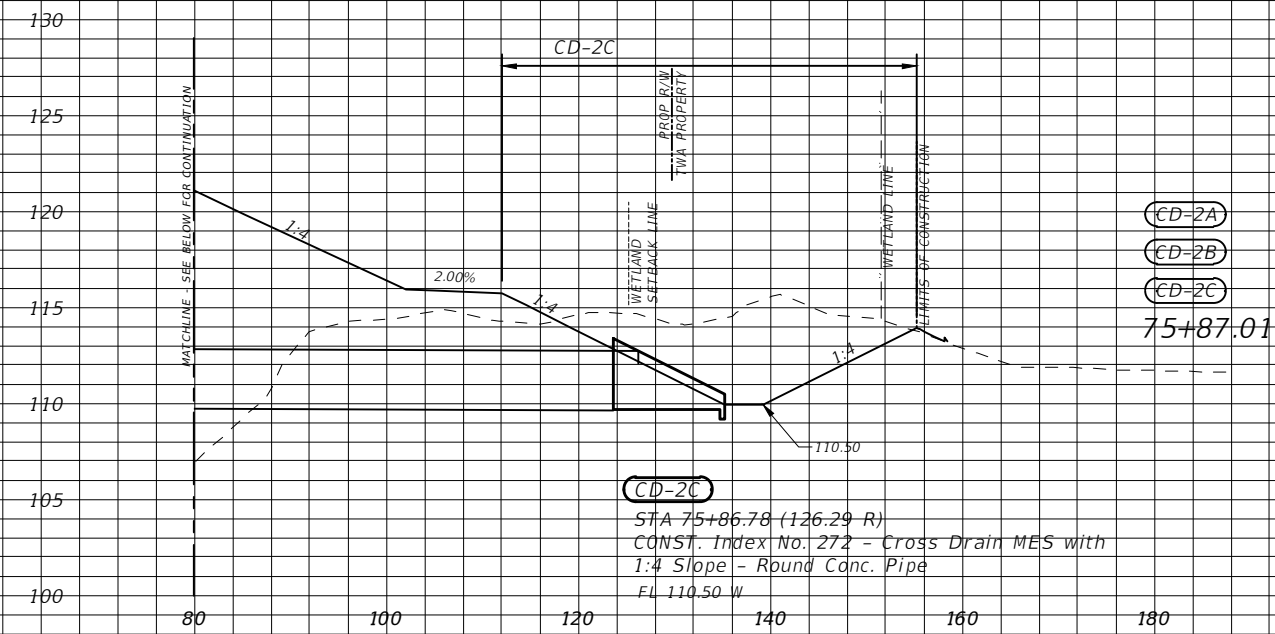


DRAINAGE STRUCTURES

SHEET NO.
28

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

126.03 700.61 2653.28 14089.63



* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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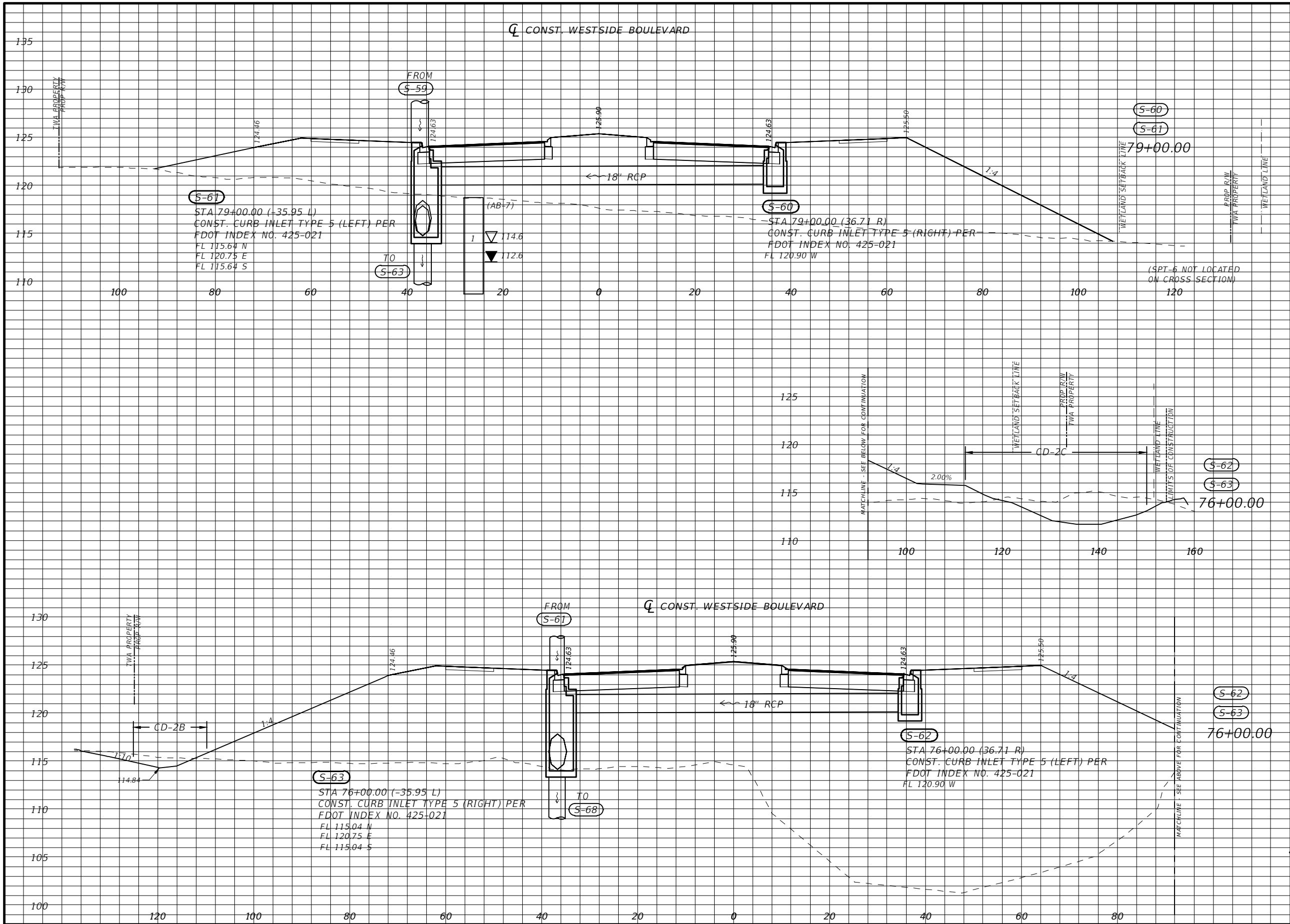
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DRAINAGE STRUCTURES

SHEET NO.
29



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	447.03	0.00	14800.01		
80.46	49.69	2664.00	1279.48		

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Scale: 1"=20' Horiz
1"=10' Vert.

REVISIONS			
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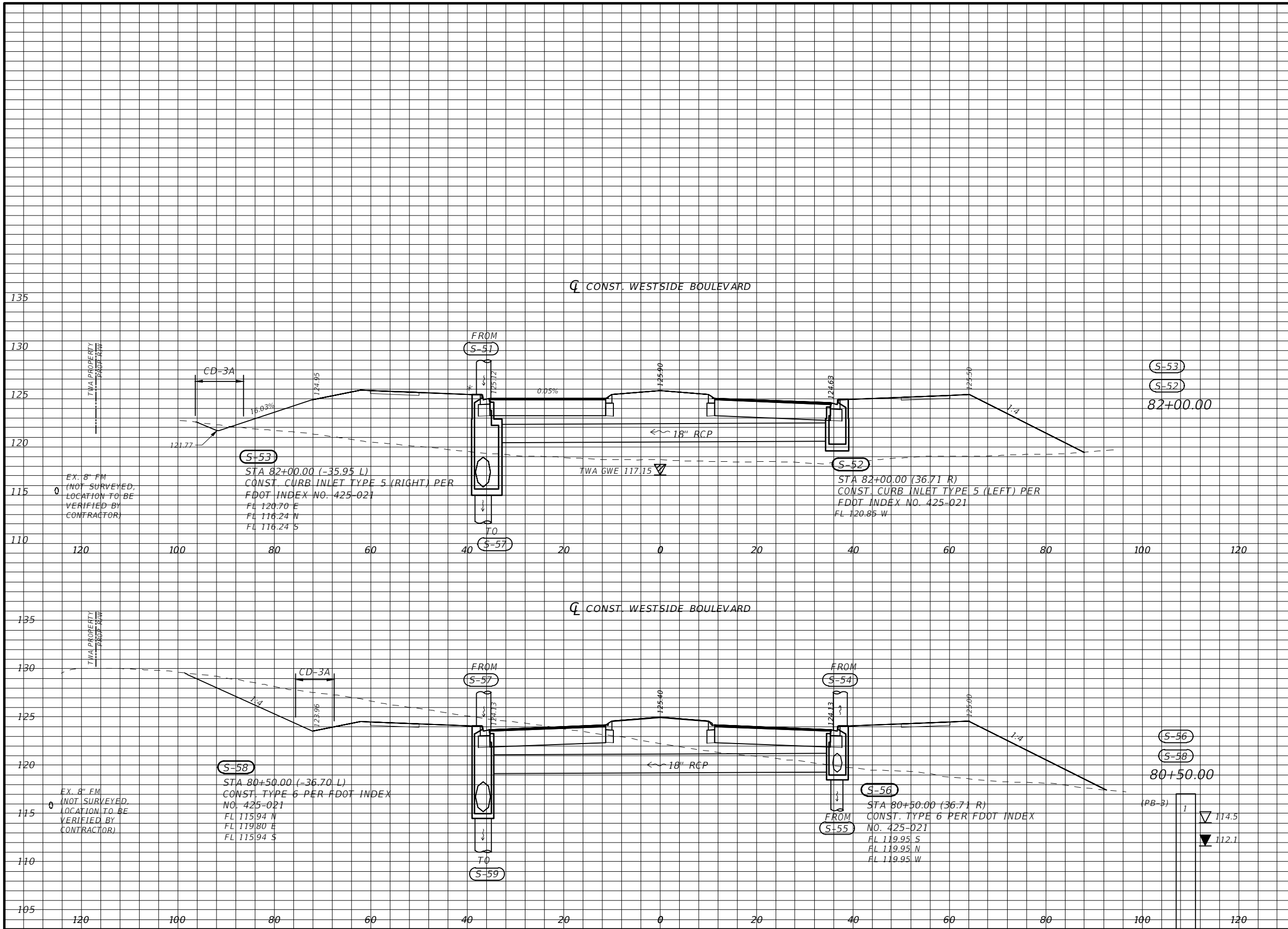
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DRAINAGE STRUCTURES

SHEET NO. 30

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



2.22	382.60	937.67	3610.31
135.52	376.44	362.04	1005.68

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz
1"=10' Vert.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
XX-XX-XX	REVISD PER FDOT COMMENTS 07-15-22		

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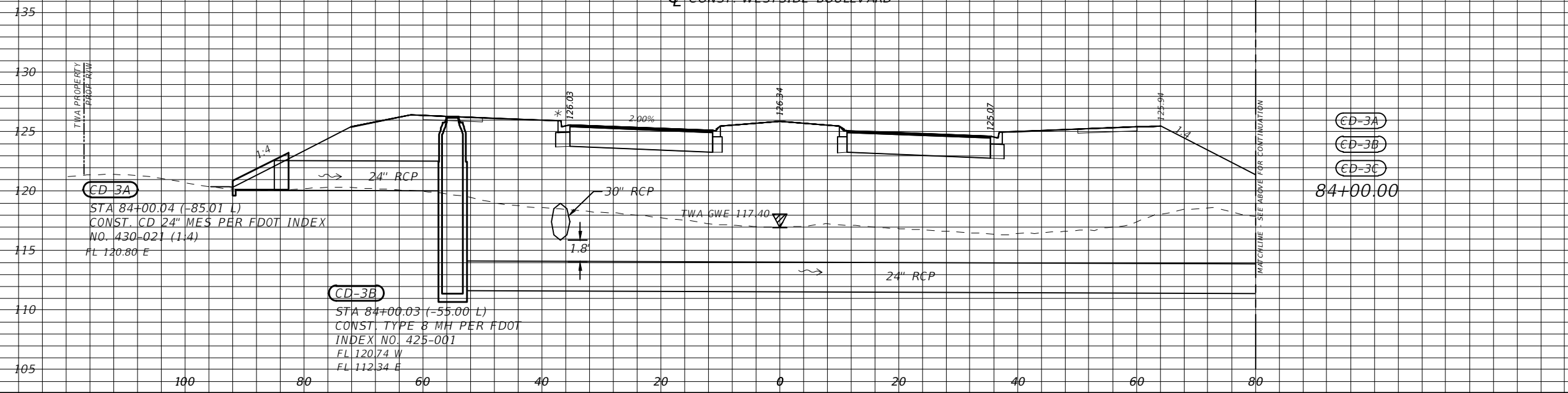
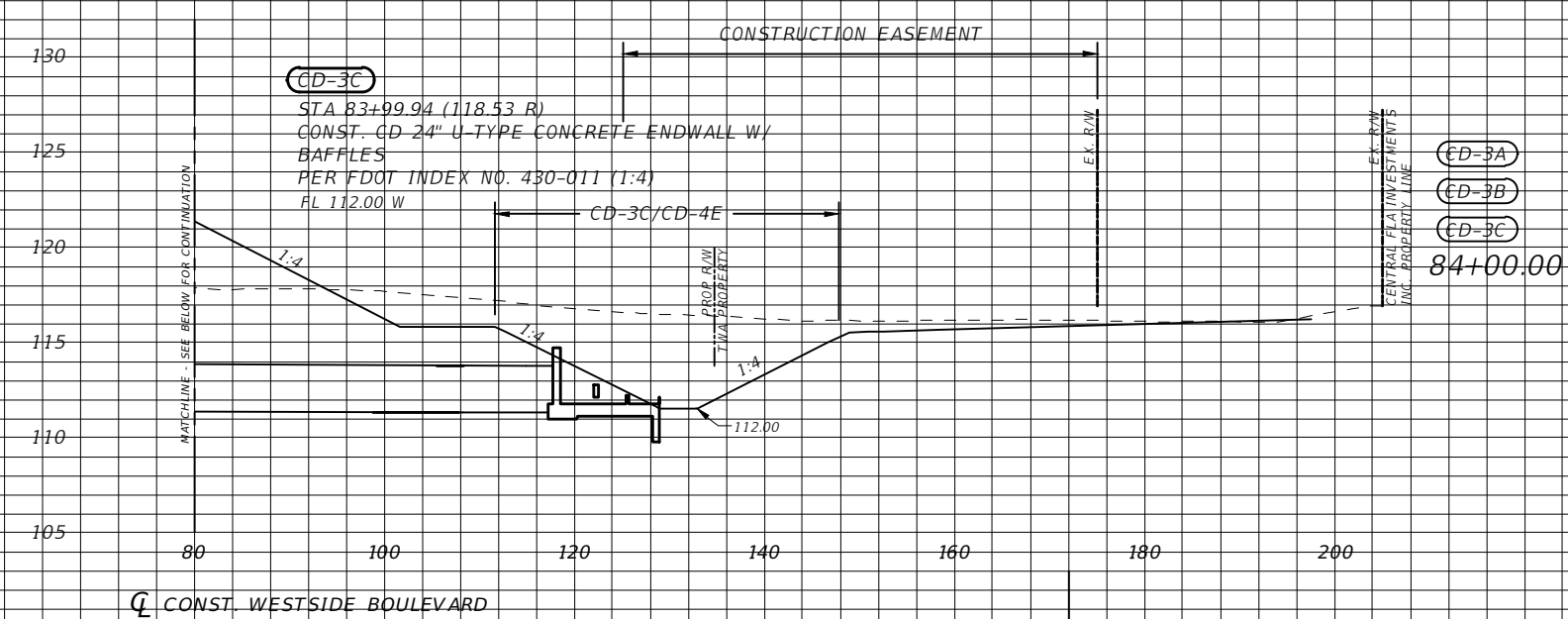


DRAINAGE STRUCTURES

SHEET NO.
31

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

152.27 540.83 1207.89 7937.70



* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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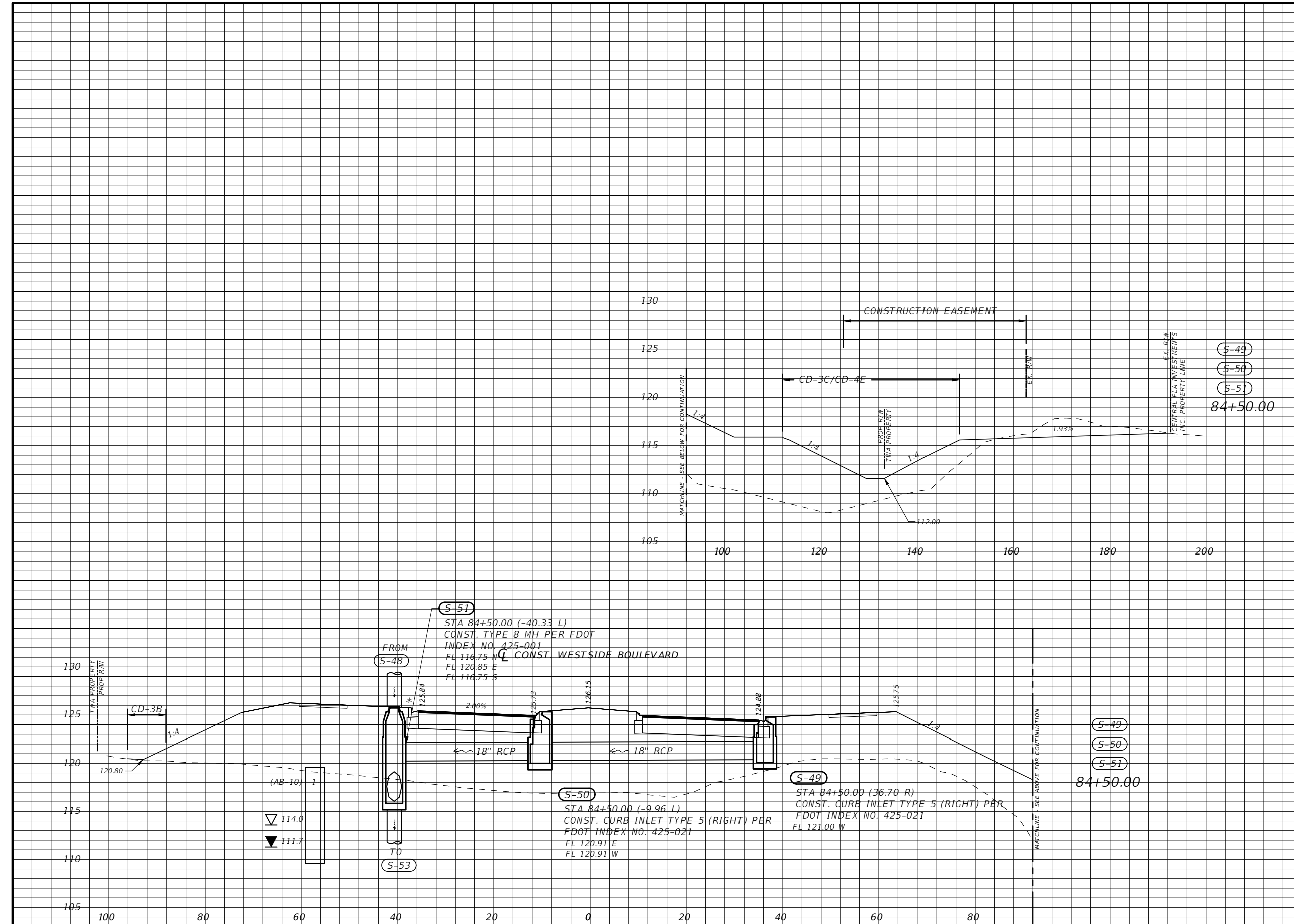


DRAINAGE STRUCTURES

SHEET NO.
32

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

31.88	157.54	1396.60	2394.32		



* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN.

Scale: 1"=20' Horiz.
1"=10' Vert.

REVISIONS	
DATE	DESCRIPTION

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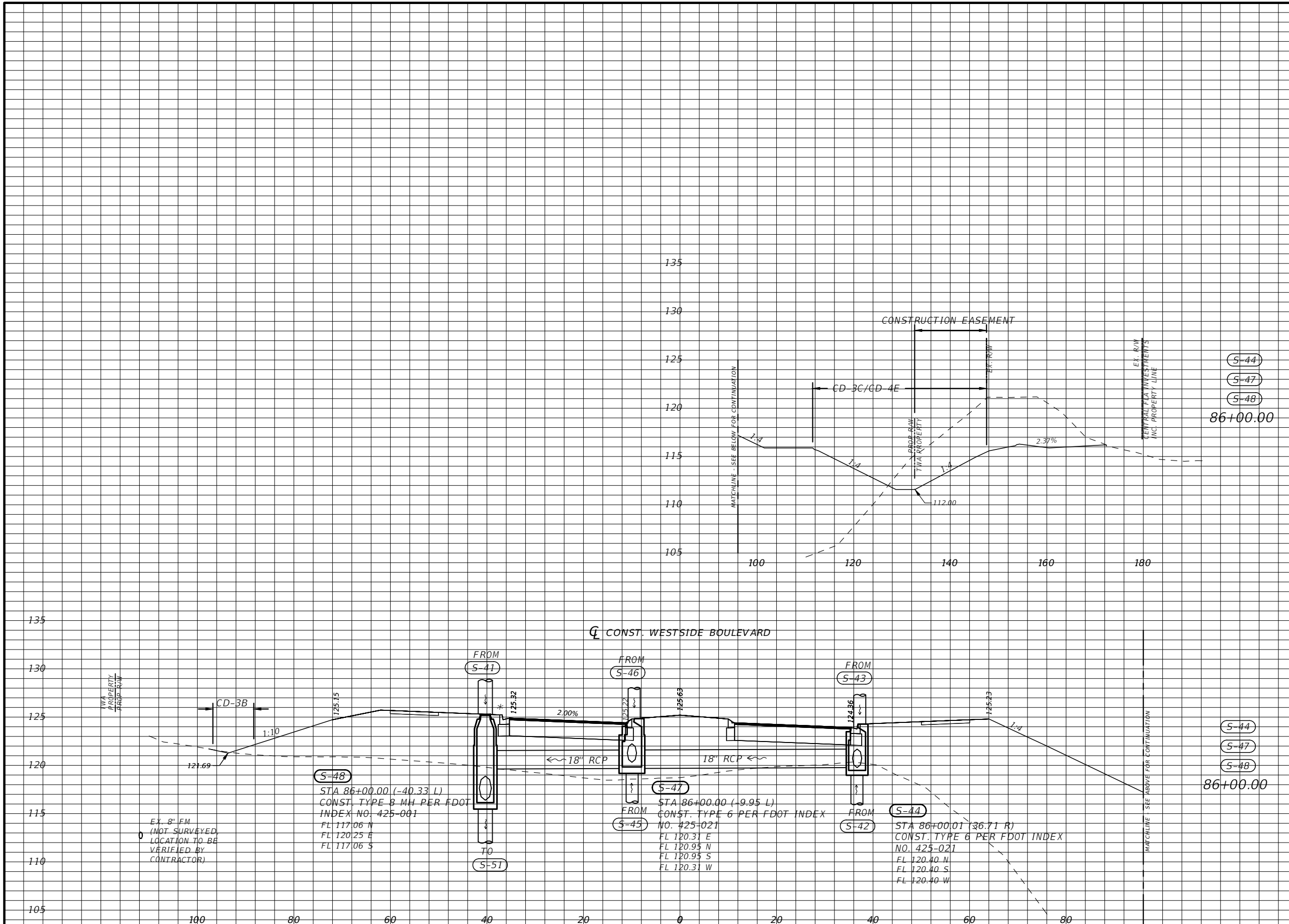
OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

**DRAINAGE
STRUCTURES**

SHEET
NO.
33

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

167.19	506.09	1630.77	8253.15		
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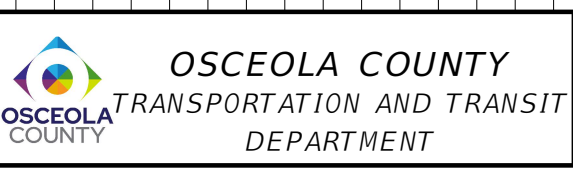


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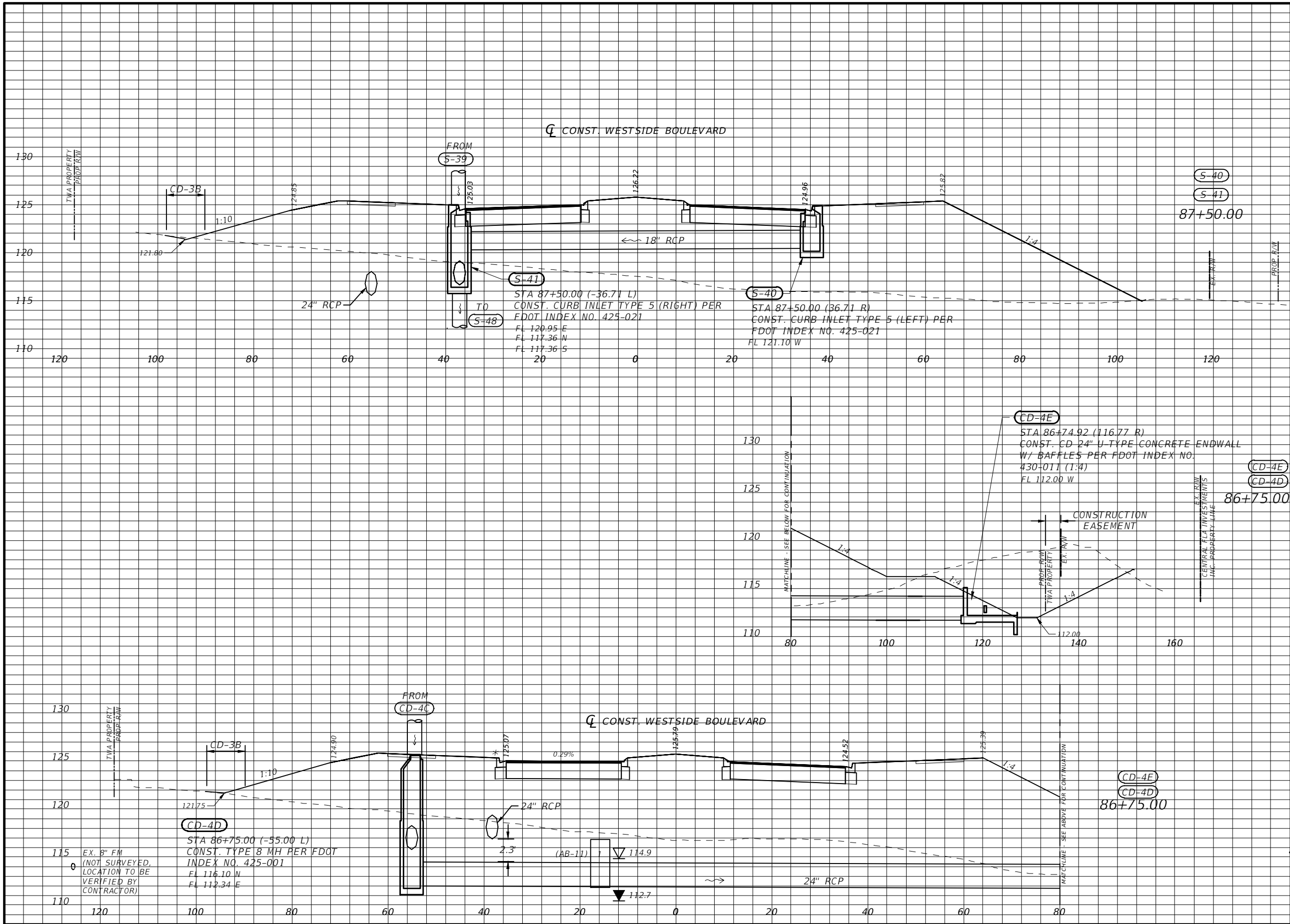
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
MAITLAND, FL 32751
(407) 629-8330 EXT 150



DRAINAGE STRUCTURES

SHEET NO.
34



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.46	246.16	1254.94	3624.94	176.78	4106.54

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz
1"=10' Vert.

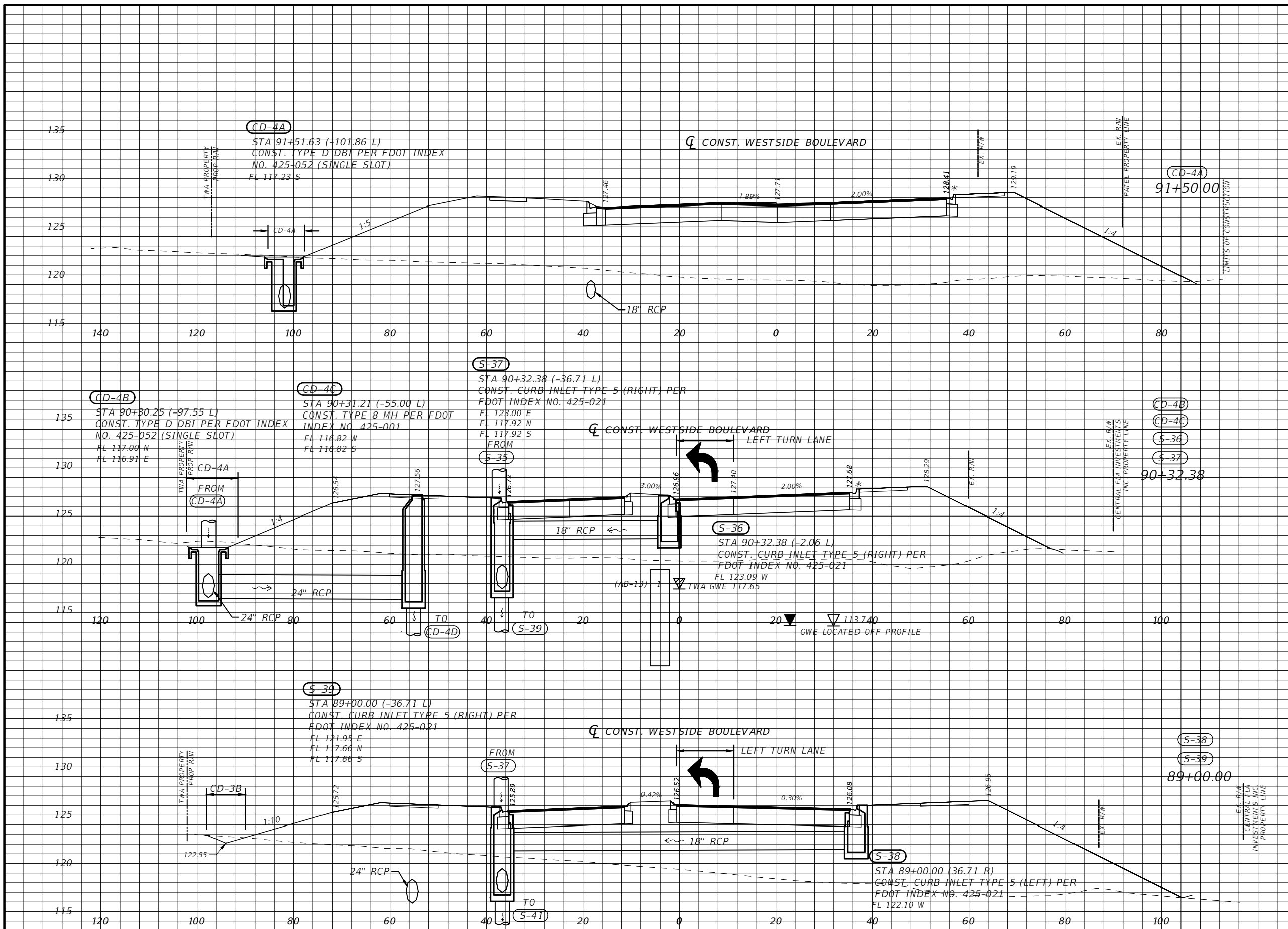
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DRAINAGE STRUCTURES

SHEET NO.
35



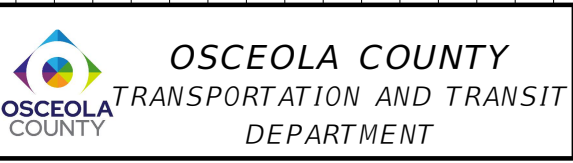
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
1.50	1.48	1170.33	2369.55		
5.83	20.51	952.68	5054.57		
2.68	8.74	1106.45	6559.41		

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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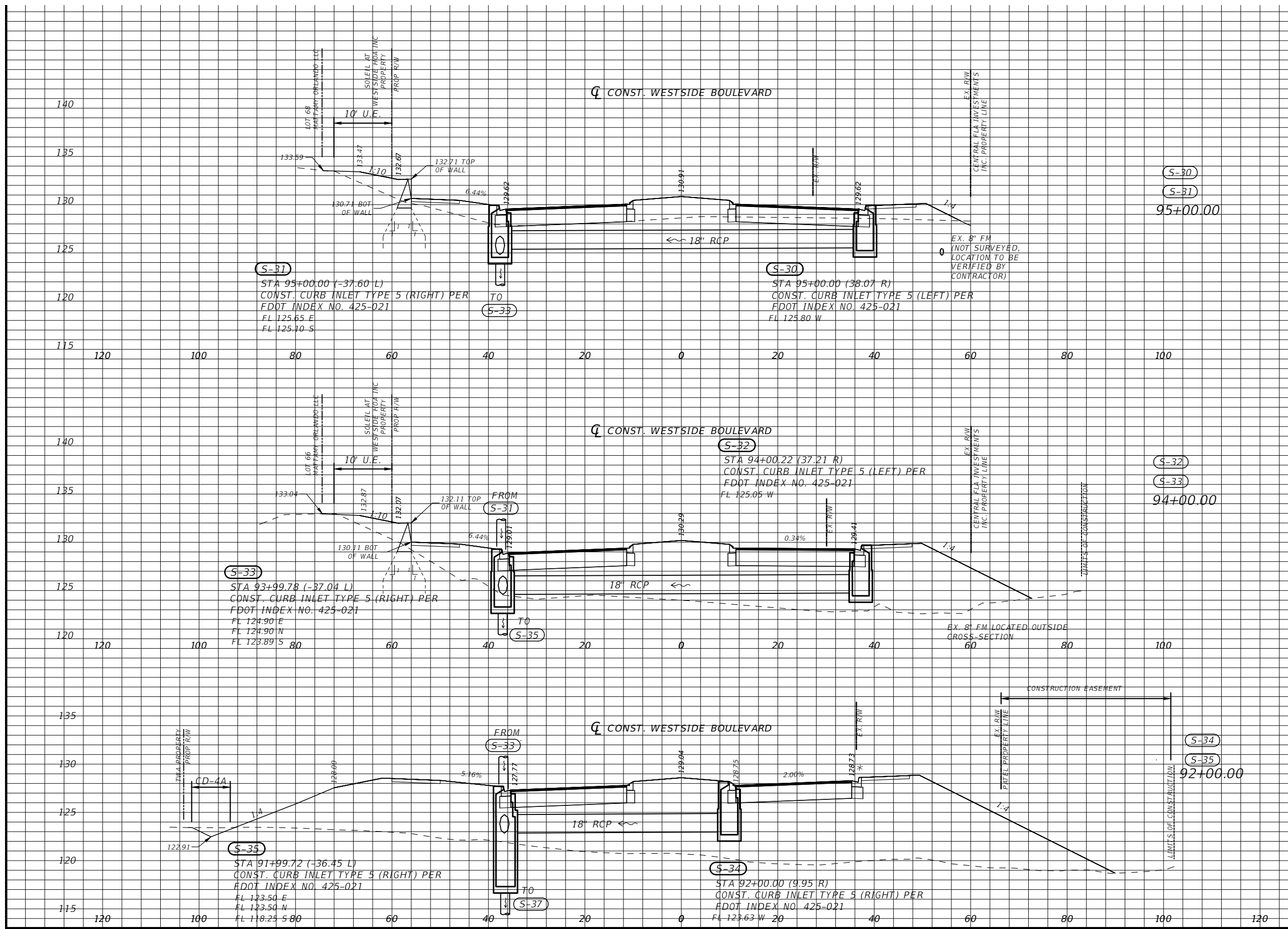
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DRAINAGE STRUCTURES

SHEET NO. 36



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.50	1.19	194.19	1596.79		
0.14	15.15	668.10	6484.46		
4.13	11.15	1078.54	6043.83		

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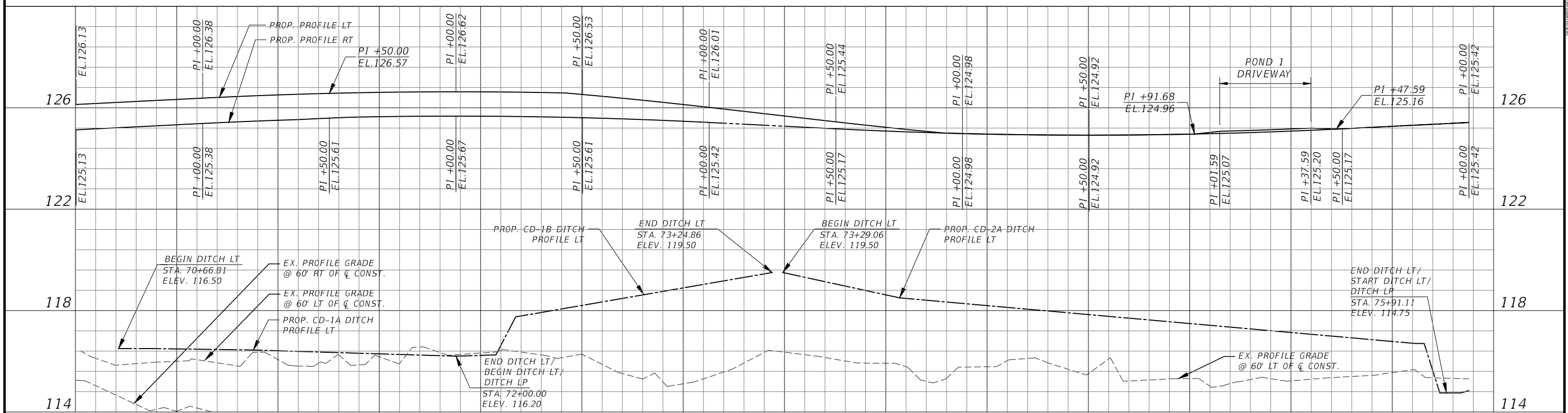
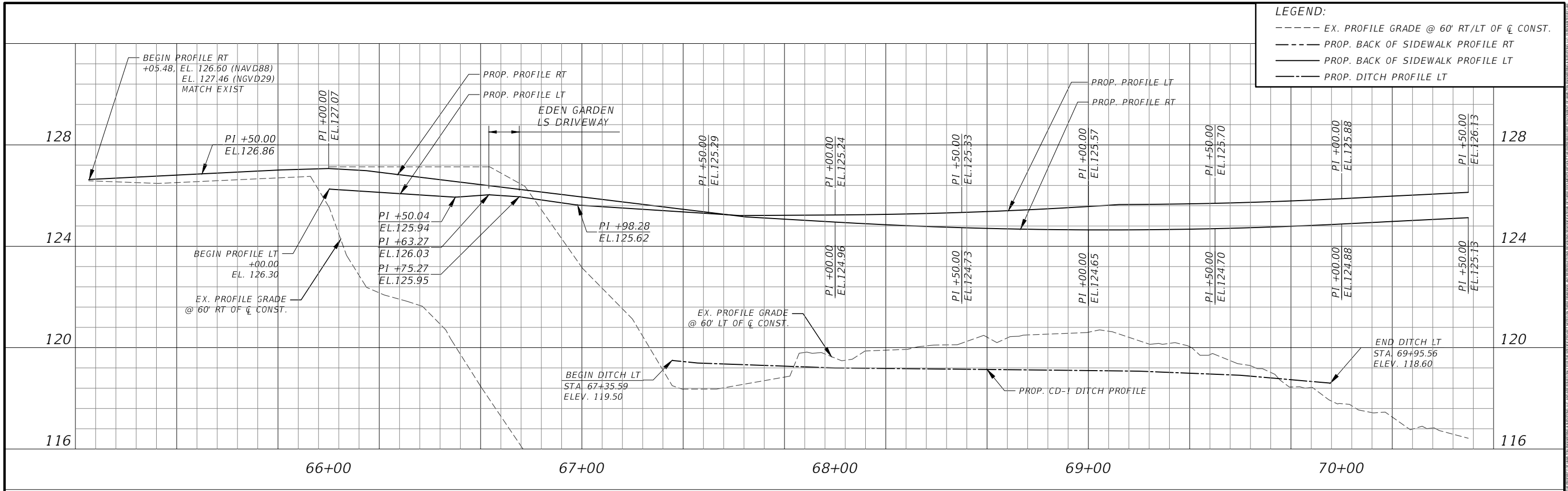
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

**DRAINAGE
STRUCTURES**

SHEET
NO.
37

LEGEND:
 - - - - EX. PROFILE GRADE @ 60' RT/LT OF C CONST.
 - - - - PROP. BACK OF SIDEWALK PROFILE RT
 - - - - PROP. BACK OF SIDEWALK PROFILE LT
 - - - - PROP. DITCH PROFILE LT



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

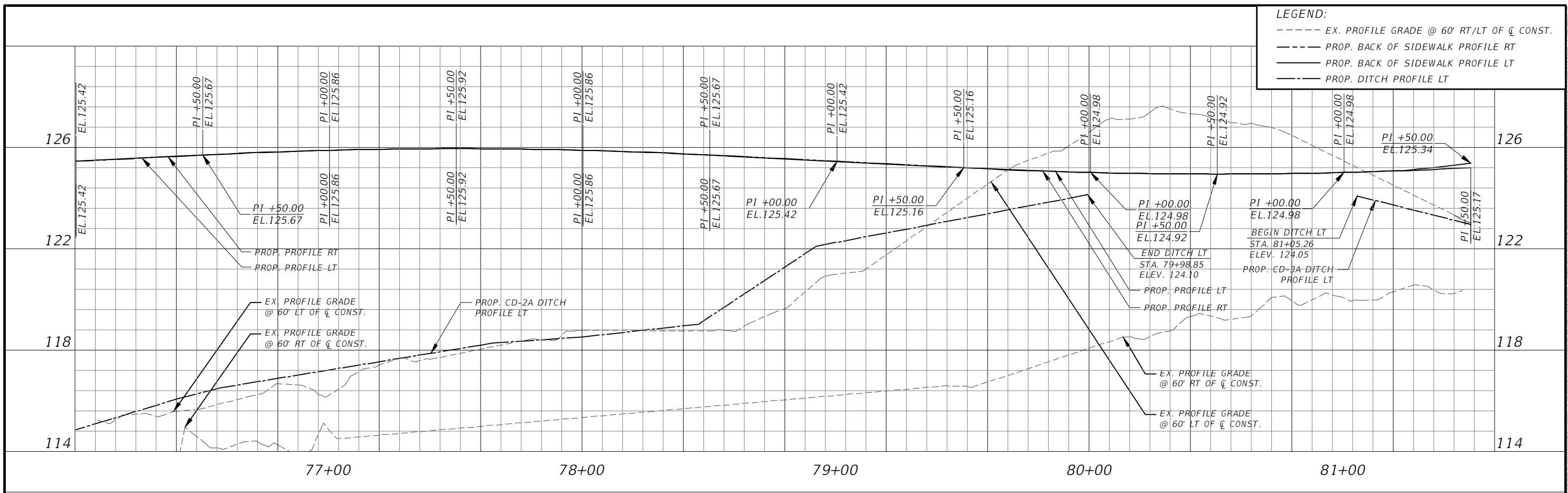
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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

**BACK-OF-SIDEWALK
 PROFILES**

SHEET NO.
38



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

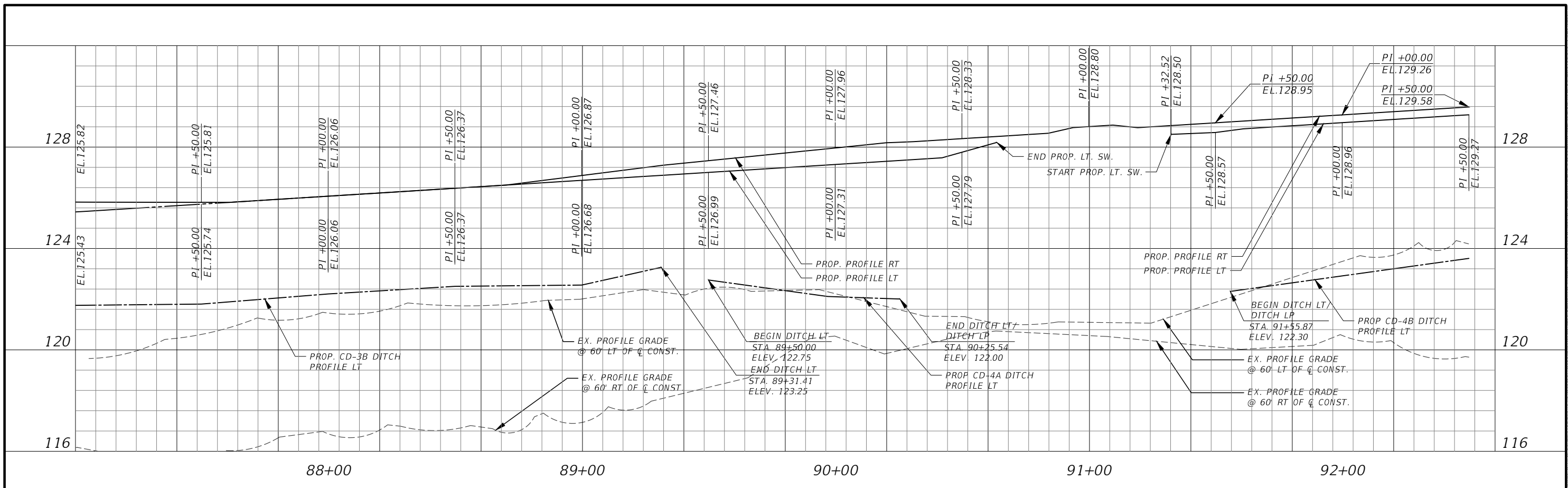
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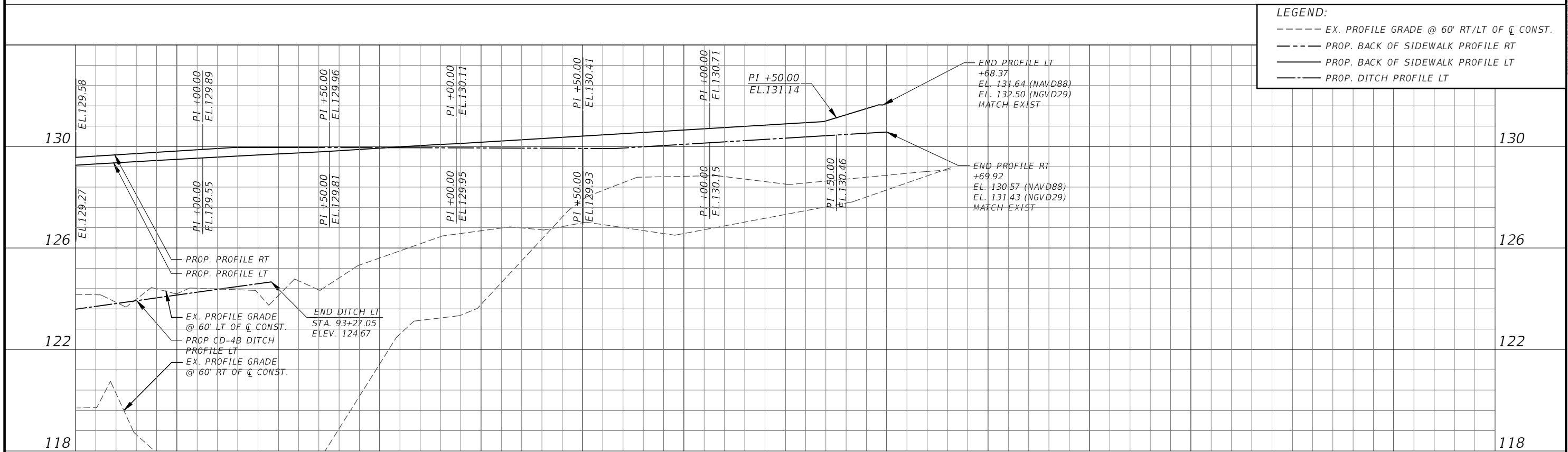
BACK-OF-SIDEWALK PROFILES

SHEET NO.
39



LEGEND:

- EX. PROFILE GRADE @ 60' RT/LT OF C CONST.
- PROP. BACK OF SIDEWALK PROFILE RT
- PROP. BACK OF SIDEWALK PROFILE LT
- PROP. DITCH PROFILE LT



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

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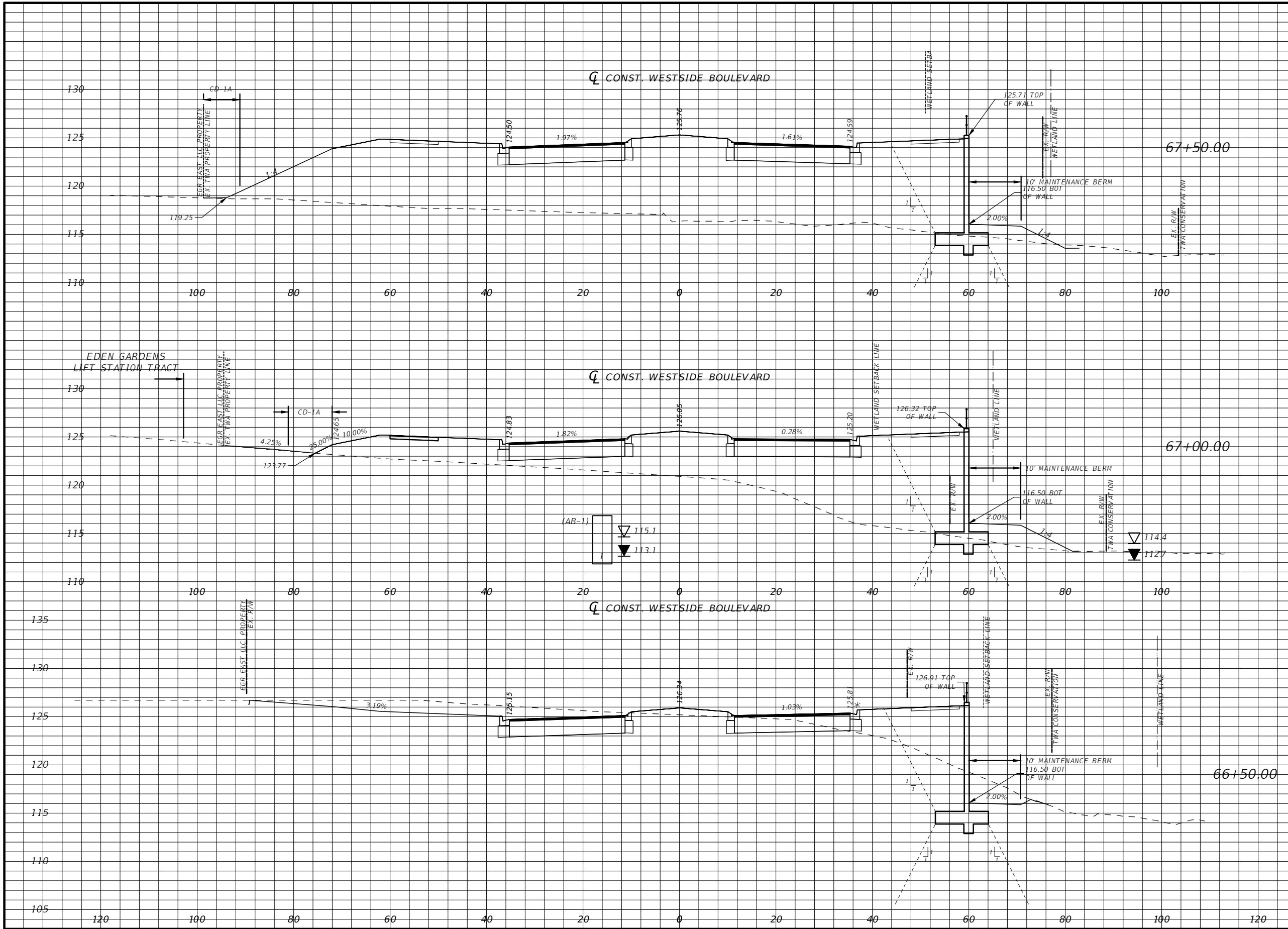
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BACK-OF-SIDEWALK PROFILES

SHEET NO.
40

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



1.23	1.14	1107.75	1660.36
0.00	196.99	685.44	1537.24
90.36	0.00	134.55	0.00

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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1"=10' Vert.

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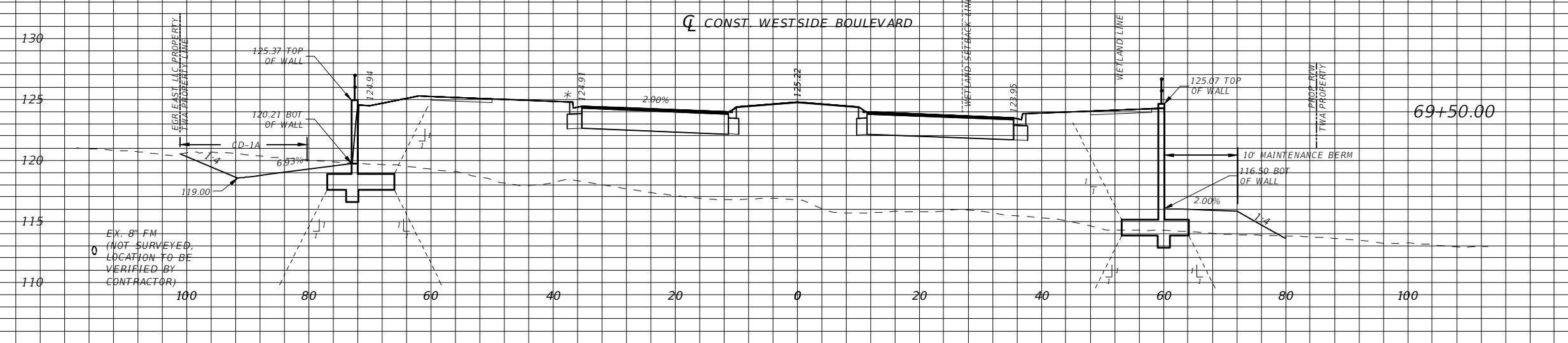
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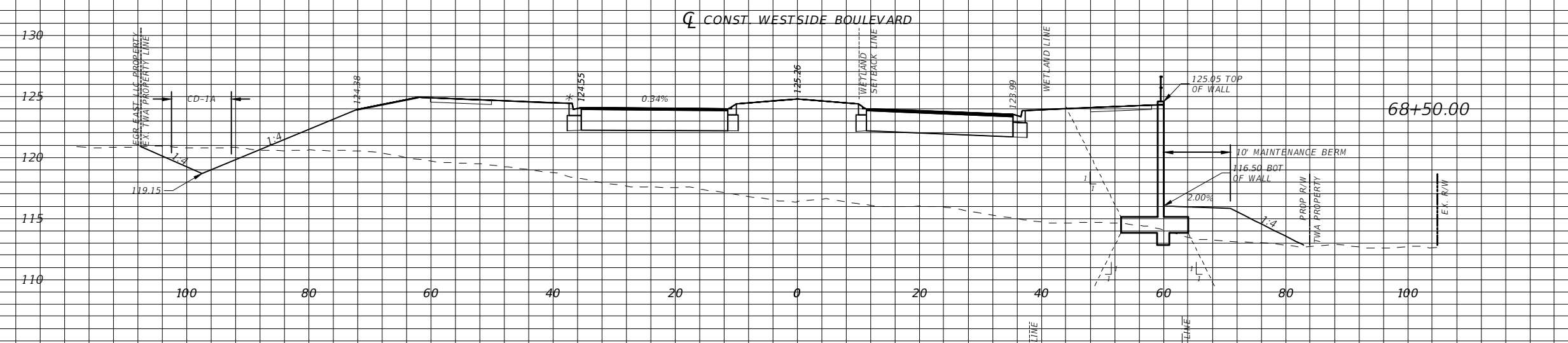
CROSS SECTIONS

SHEET NO.
41

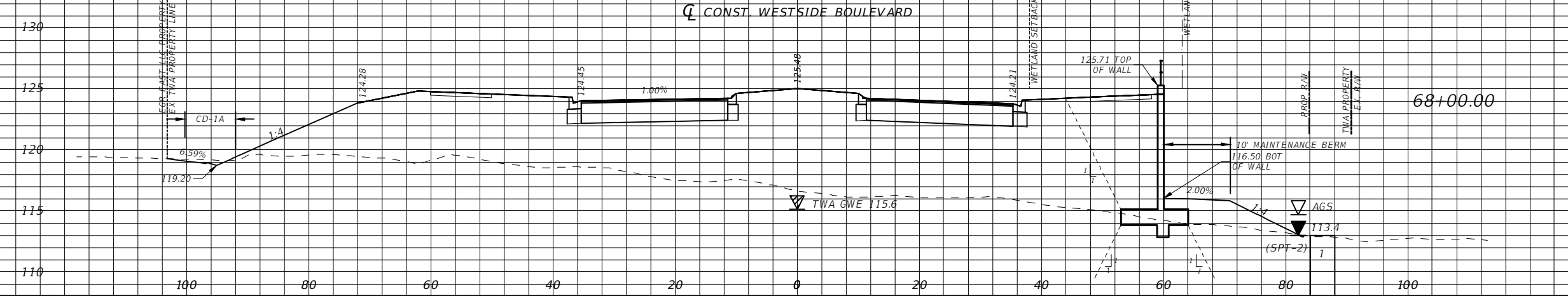
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



28.90	96.65	1022.69	3773.61
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21.03	21.33	1017.63	1888.60
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2.01	3.00	1022.07	1972.05
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* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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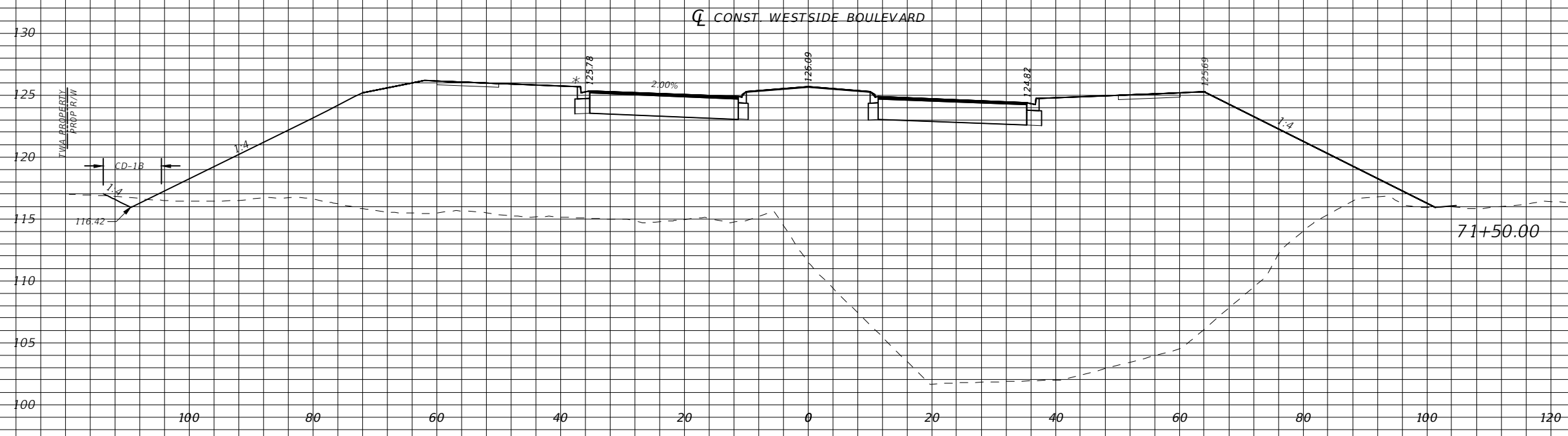
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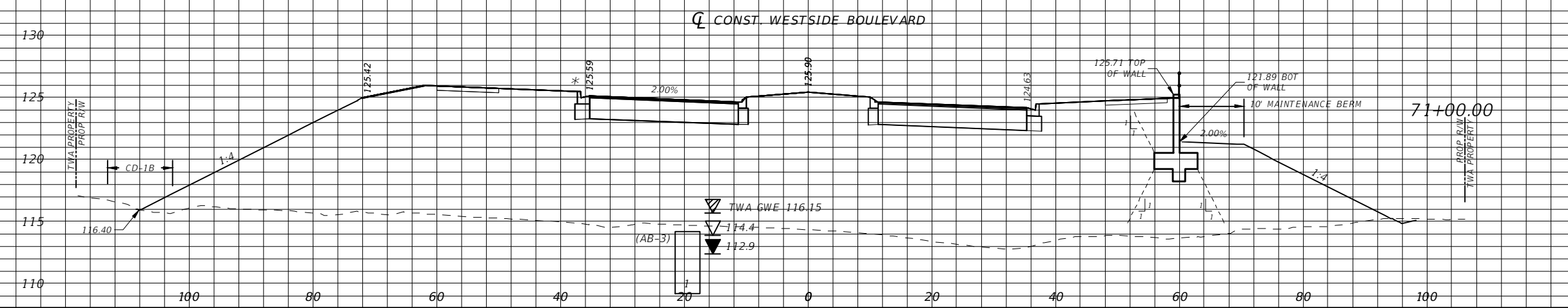
CROSS SECTIONS

SHEET NO.
42

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



2.63	3.46	2514.27	3919.15
0.97	21.70	1729.51	5442.01



* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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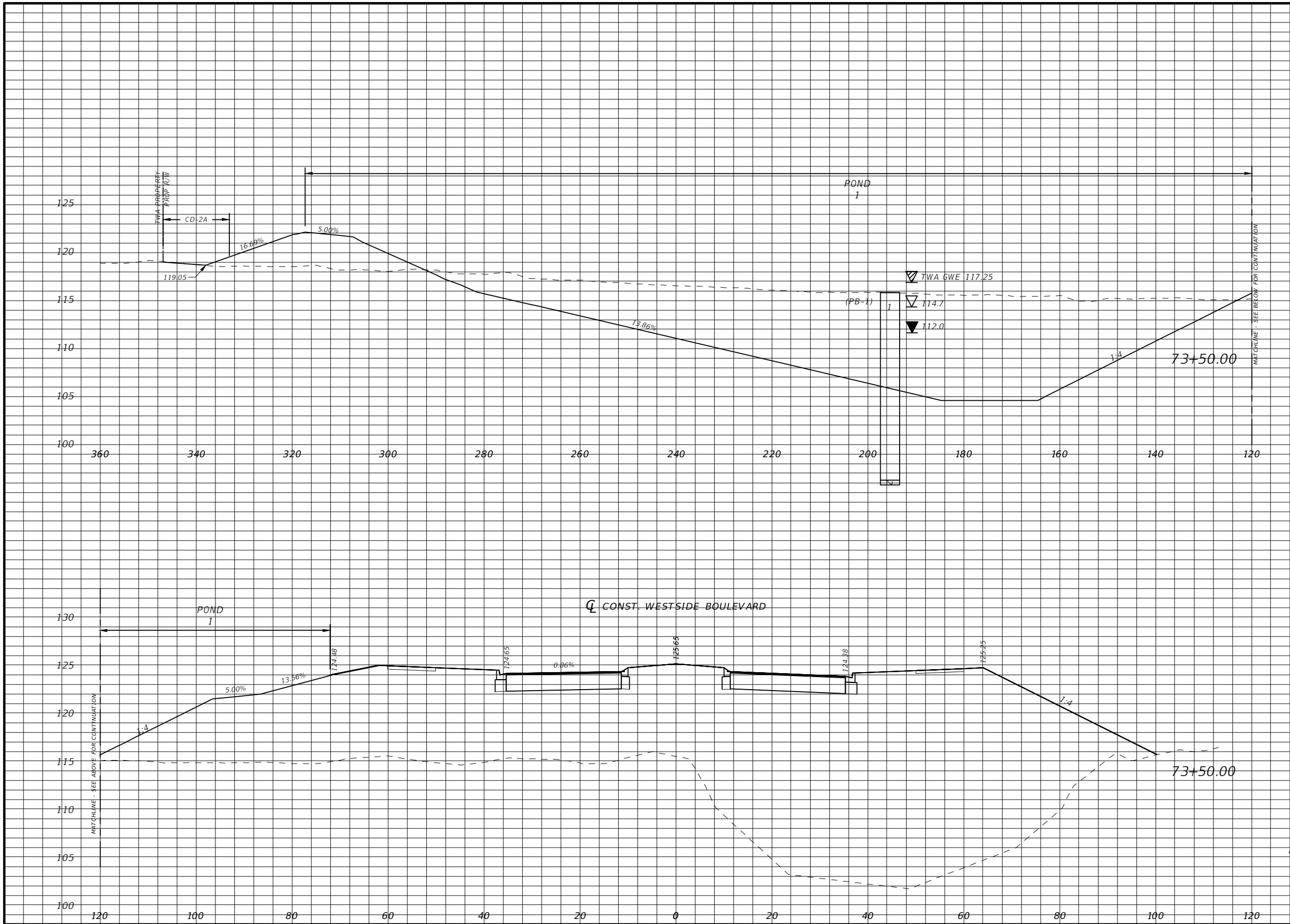
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CROSS SECTIONS

SHEET NO.
43



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
1055.81	1262.60	2615.33	4974.44		

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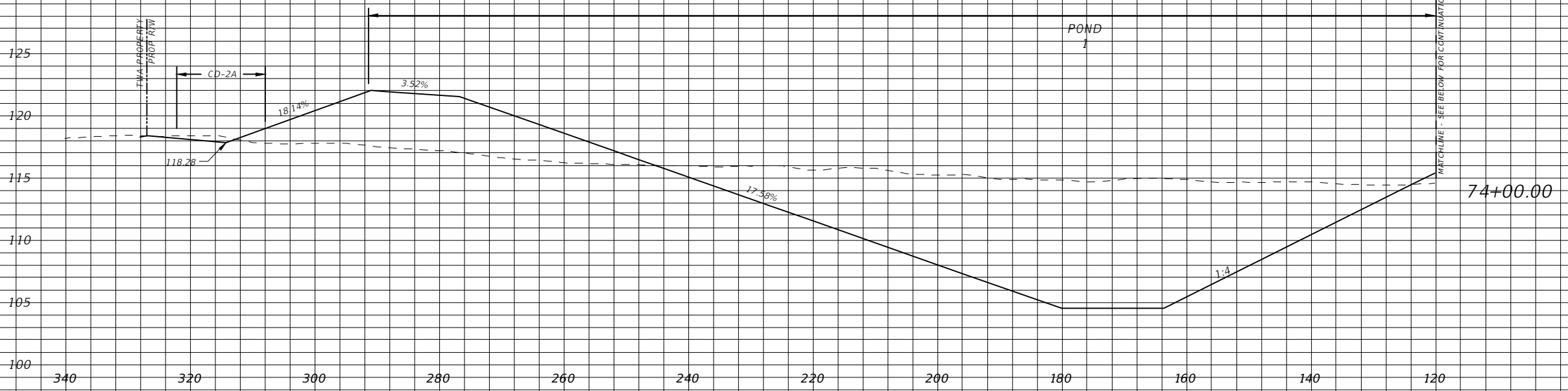
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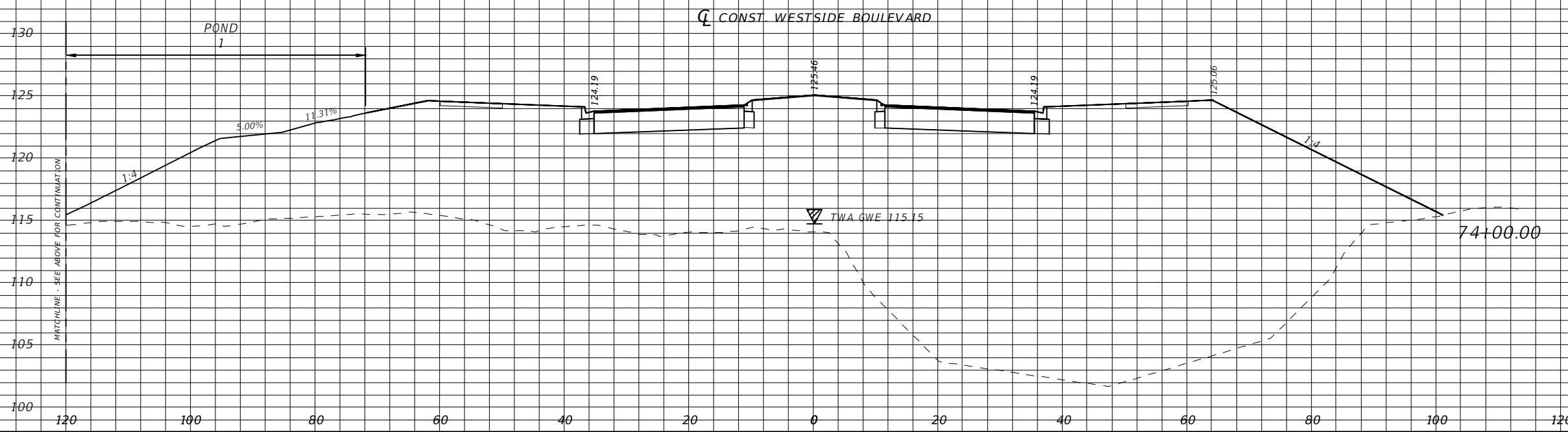
CROSS SECTIONS

SHEET NO.
44

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



722.00	1646.12	2765.35	4982.11
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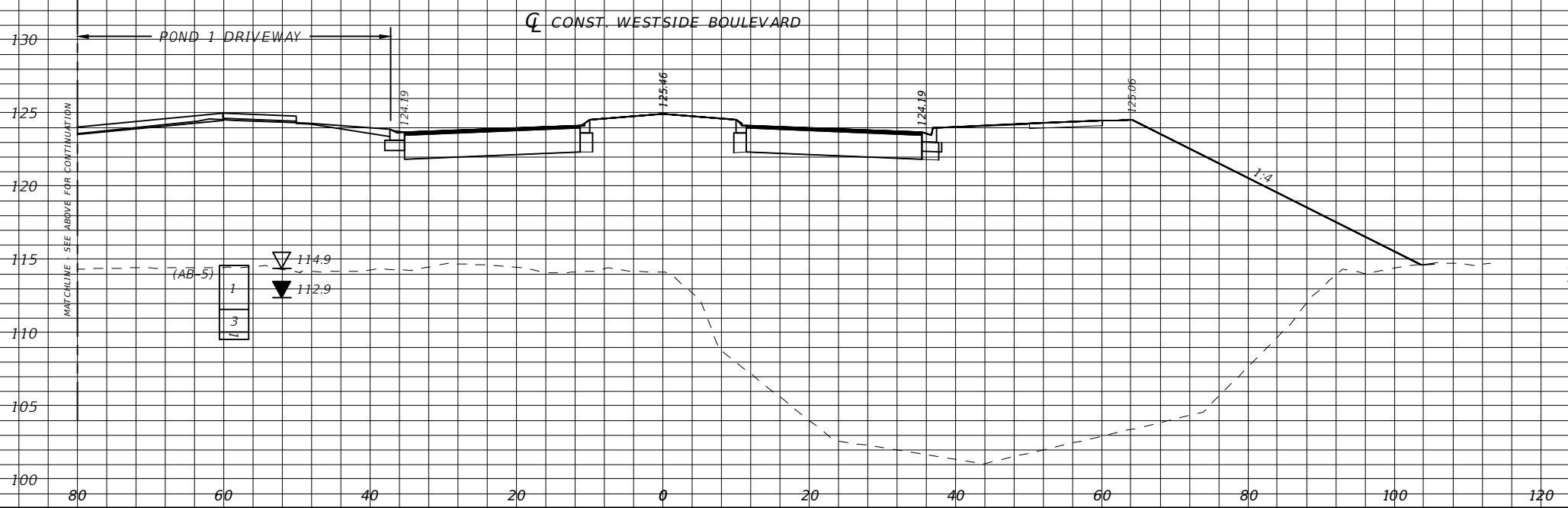
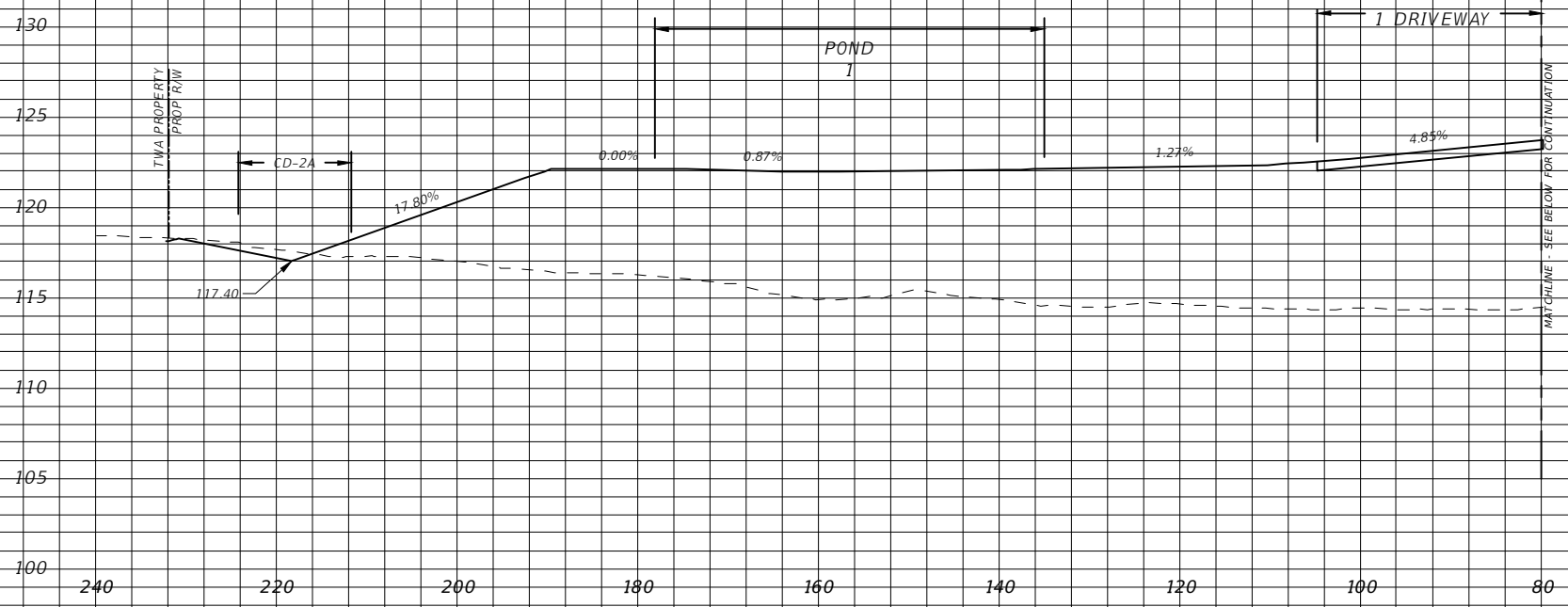


CROSS SECTIONS

SHEET NO.
45

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

4.91	145.85	3344.33	5791.37		
------	--------	---------	---------	--	--



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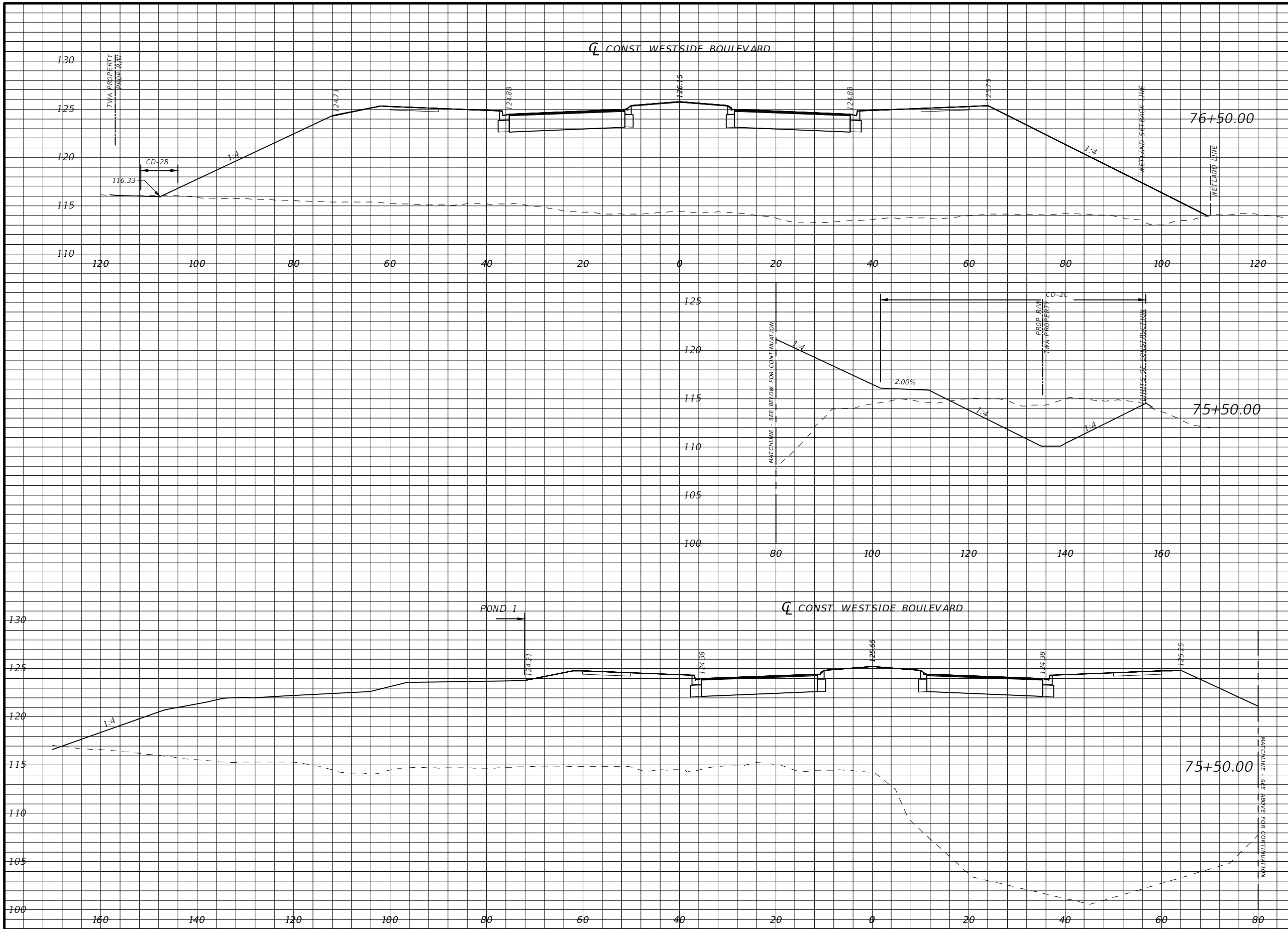
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CROSS SECTIONS

SHEET NO.
46



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.39	169.61	1866.37	9135.40		
110.89	102.74	3067.02	5417.40		

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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1"=10' Vert.

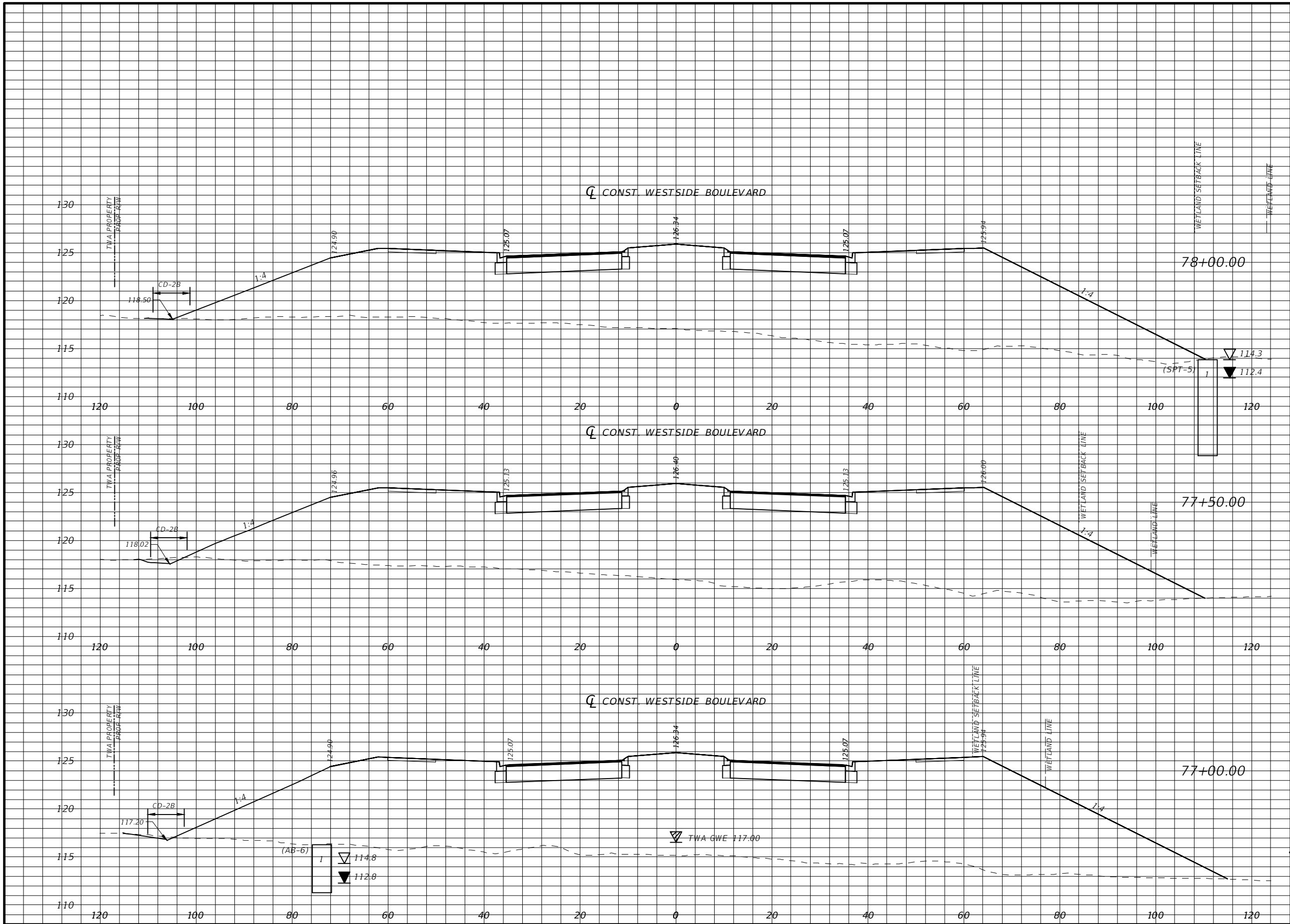
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CROSS SECTIONS

SHEET NO.
47



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.14	3.21	1467.29	2833.20		
3.32	4.71	1592.56	3126.75		
1.76	1.99	1784.33	3380.28		

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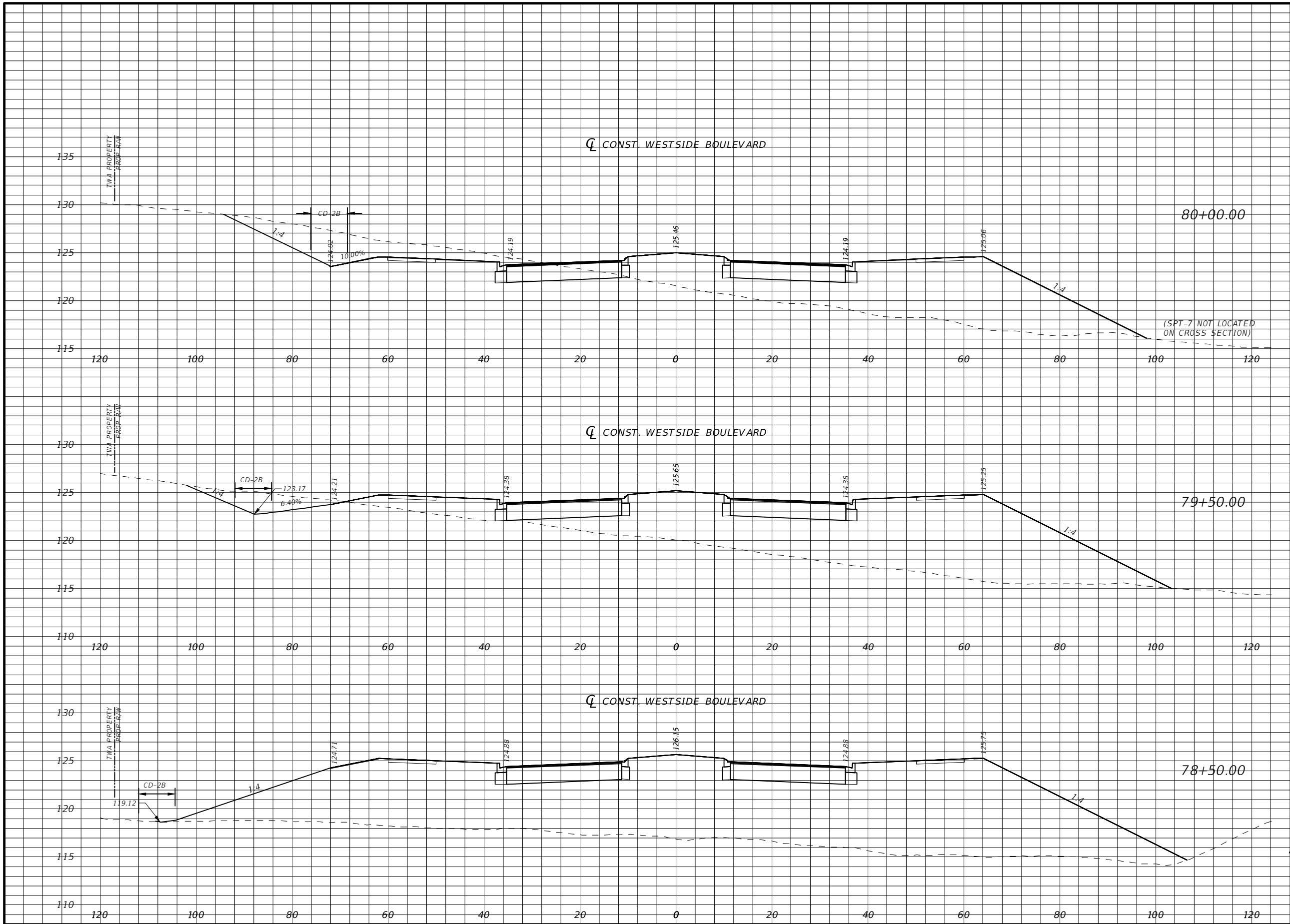
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CROSS SECTIONS

SHEET NO. 48



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
105.82	133.46	487.98	1164.10		
38.32	70.96	769.25	4002.36		
0.00	0.13	1392.02	2647.51		

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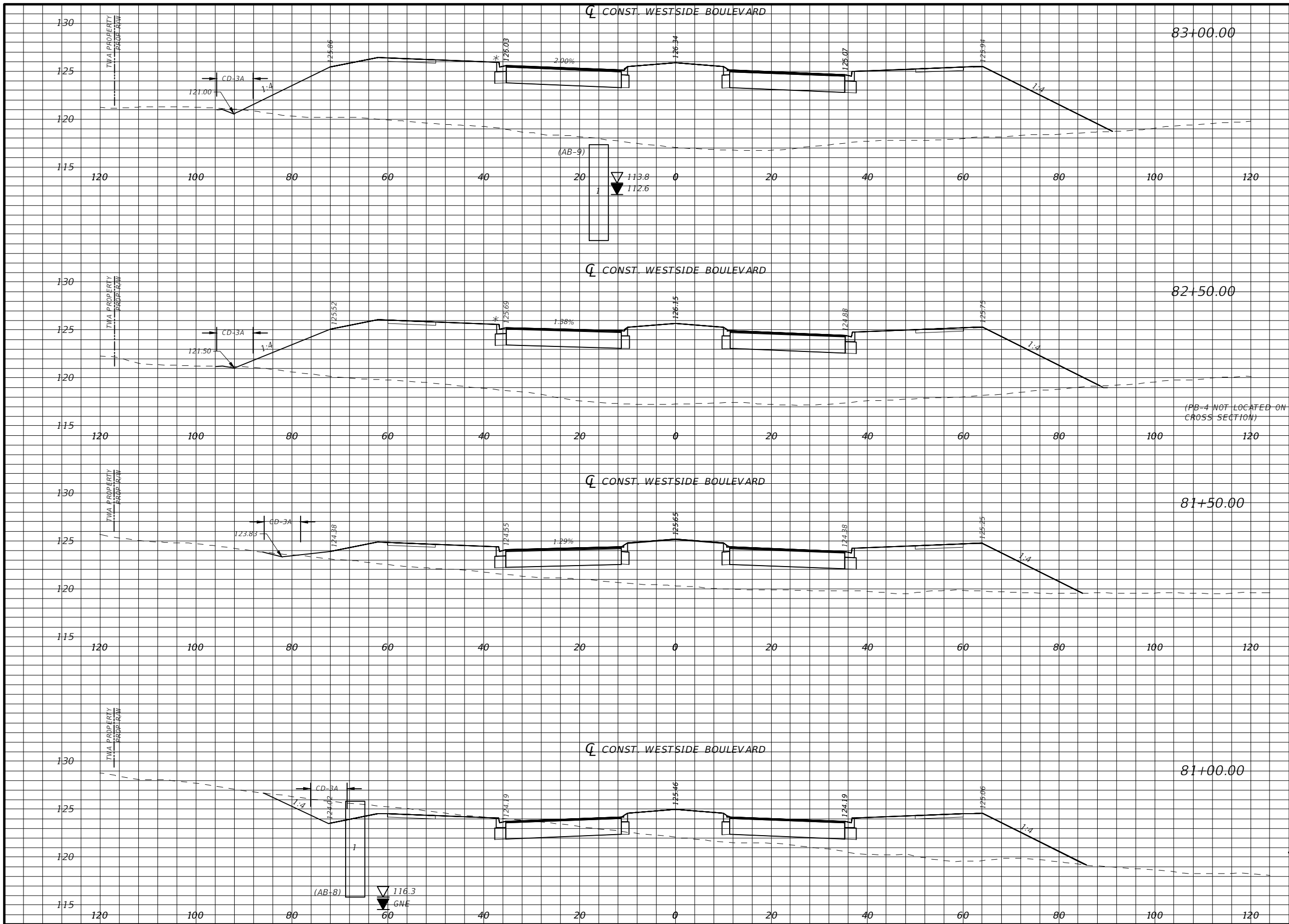
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CROSS SECTIONS

SHEET NO.
49



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
1.31	1.80	1146.96	2078.63		
0.56	2.92	1099.55	3068.75		
1.02	40.68	557.58	804.82		
42.91	275.43	311.62	1480.75		

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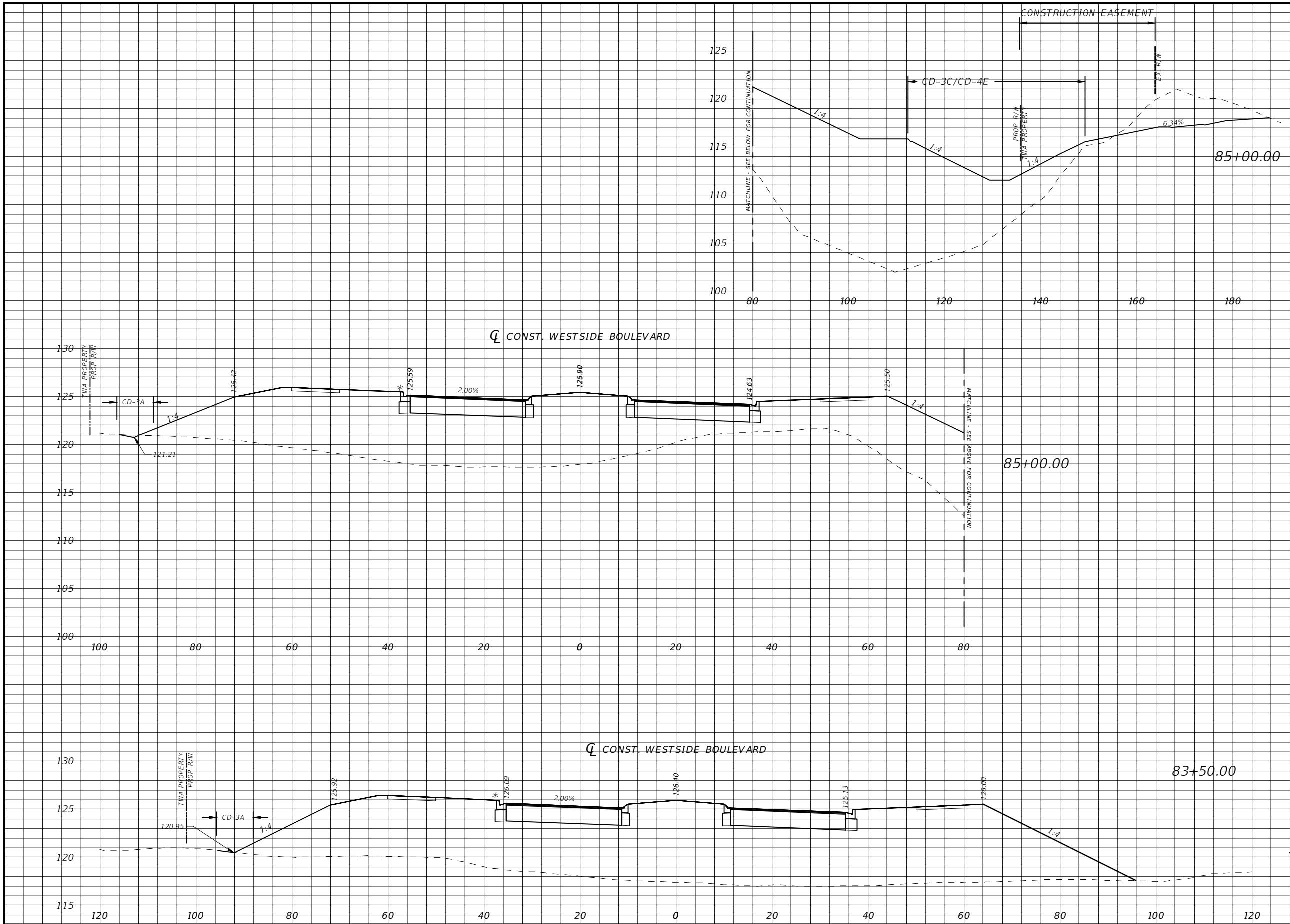
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CROSS SECTIONS

SHEET NO.
50



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
66.87	168.69	1564.92	7544.66	0.11	1.39
		1189.55	2160.19		

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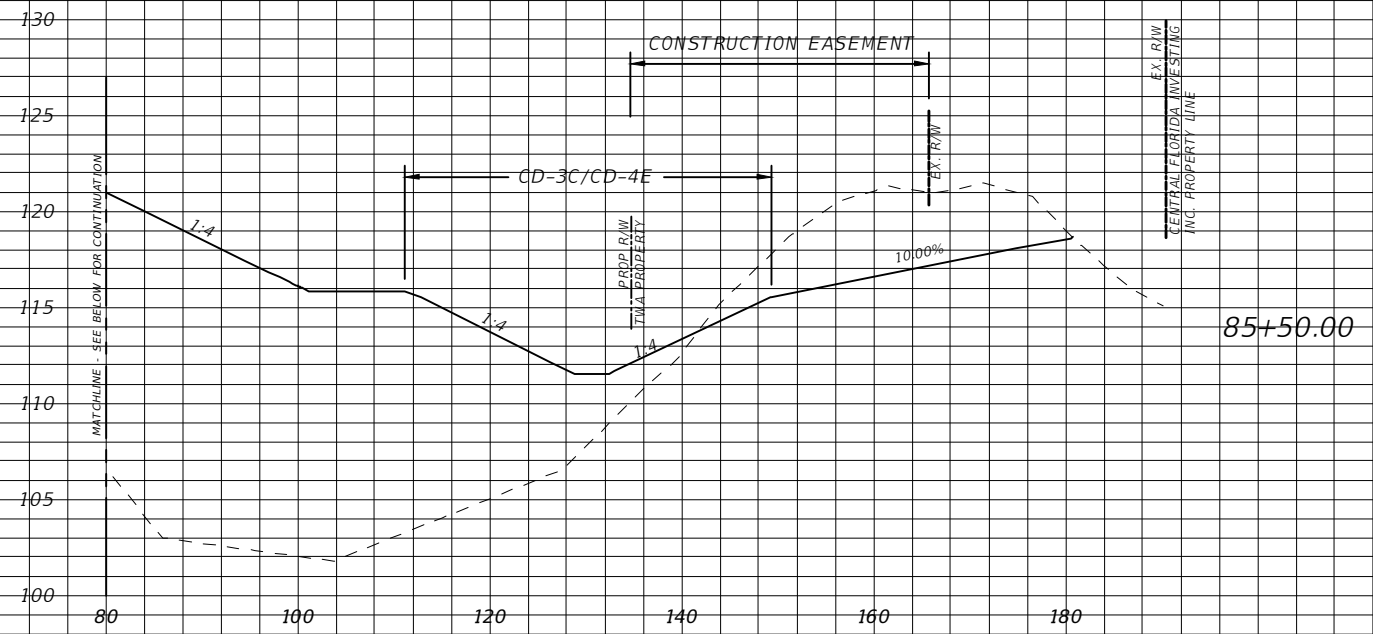
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CROSS SECTIONS

SHEET NO.
51

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



120.16	157.92	1548.95	2814.42
--------	--------	---------	---------

85+50.00

CONST. WESTSIDE BOULEVARD



* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

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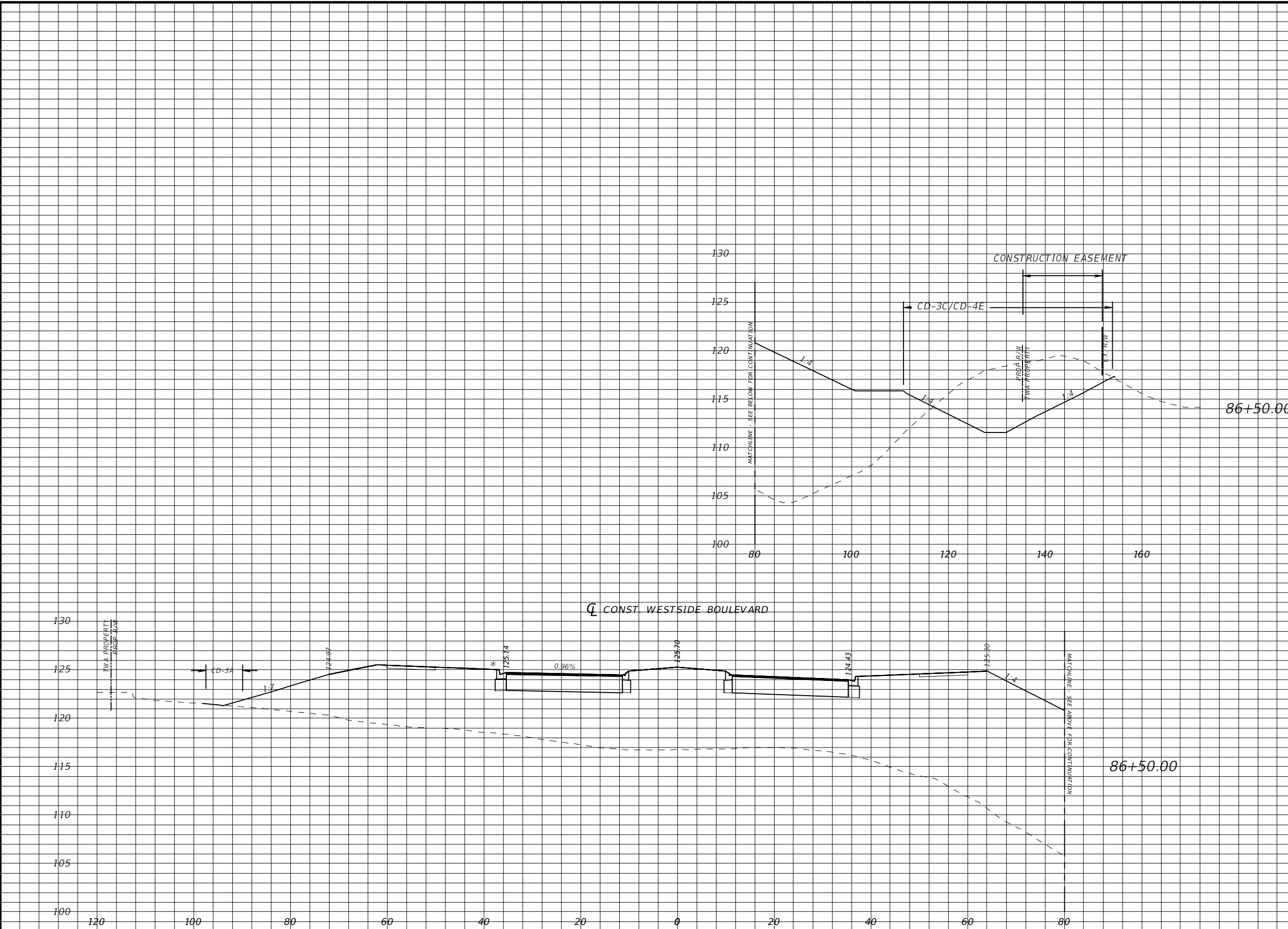
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CROSS SECTIONS

SHEET NO.
52

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



160.71	481.59	1689.63	5882.58
--------	--------	---------	---------

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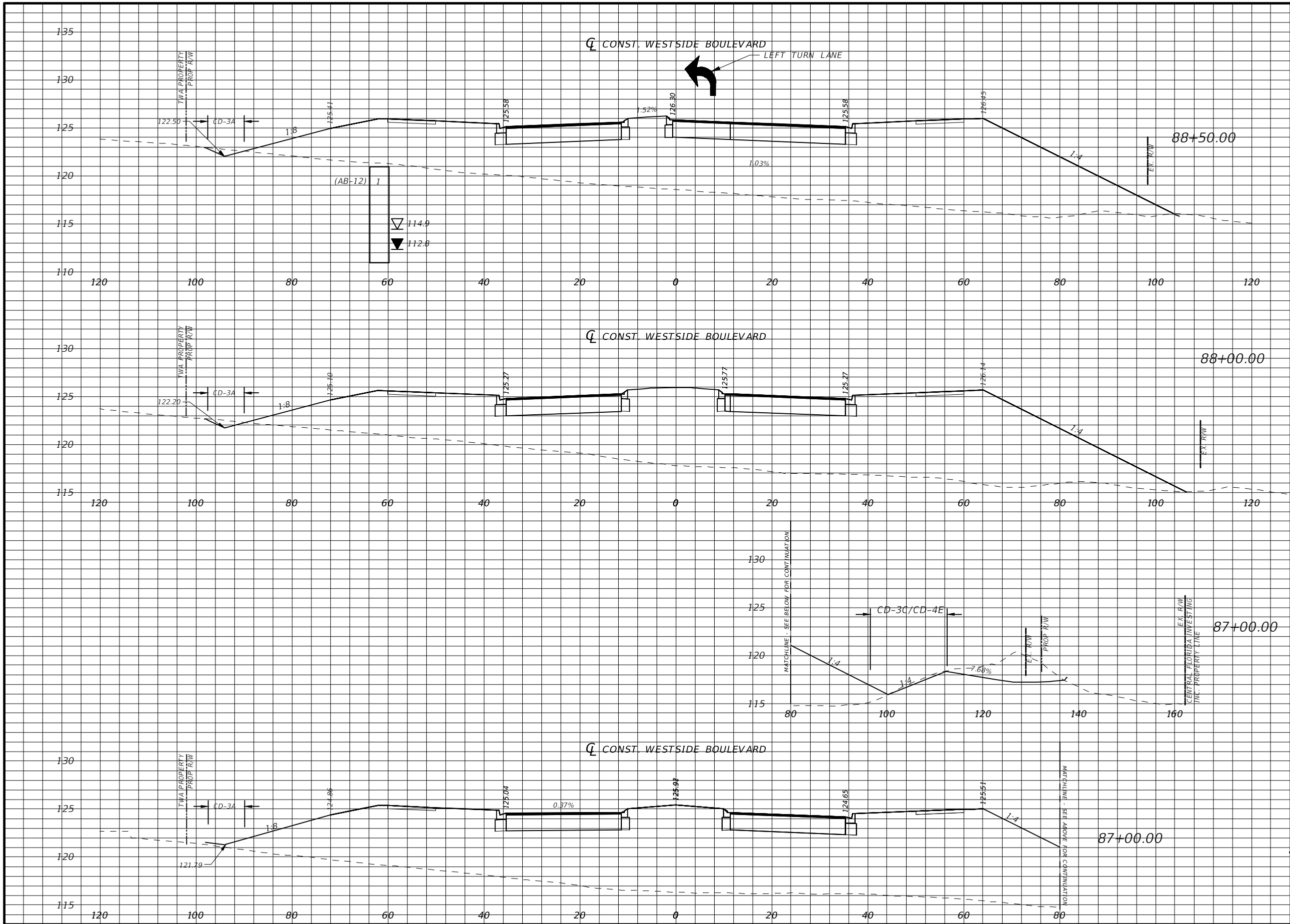
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

CROSS SECTIONS

SHEET NO.	53
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
3.28	77.84	1153.29	4560.93		
38.76	184.70	1309.61	2777.07		

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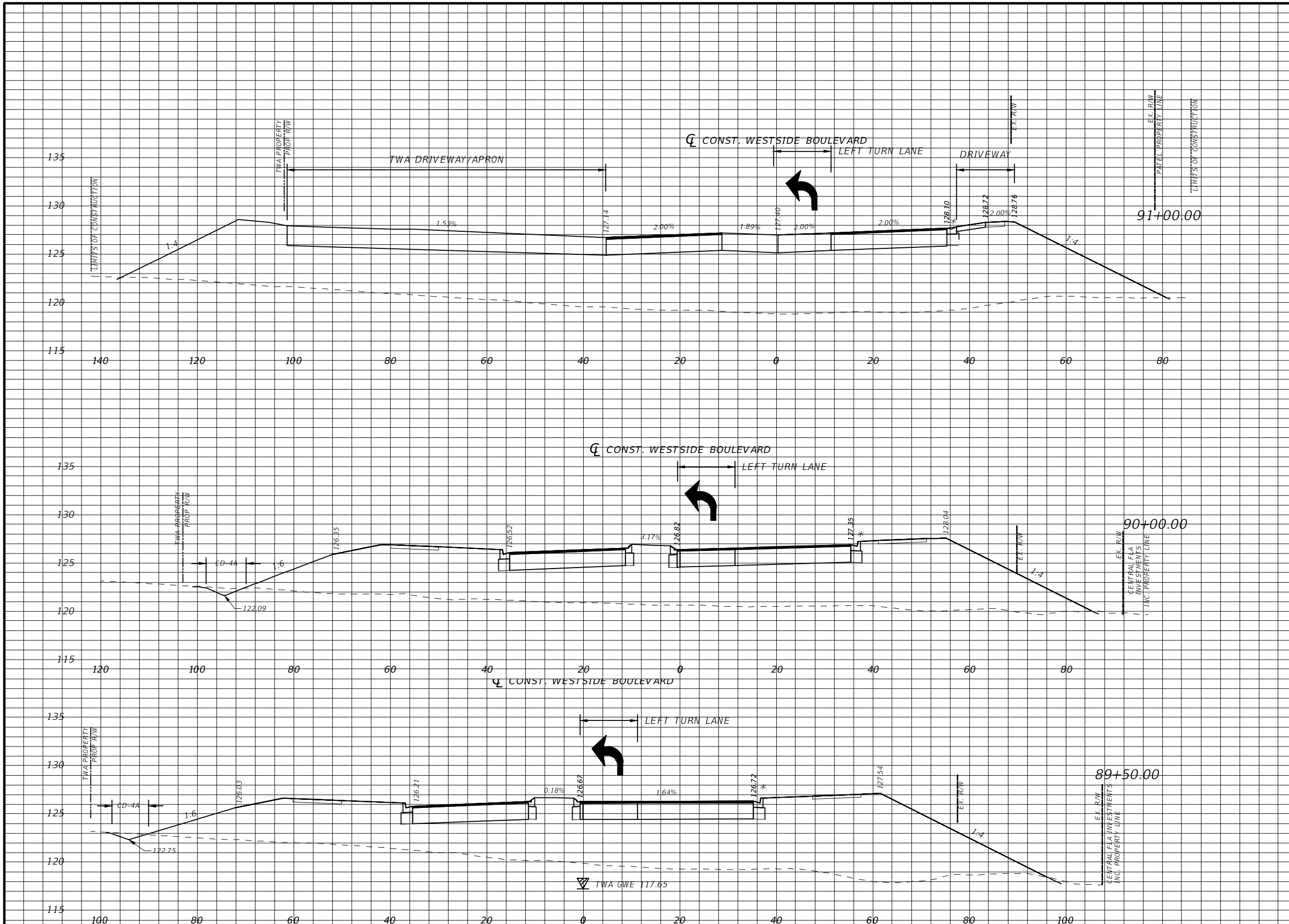
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CROSS SECTIONS

SHEET NO.
54

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



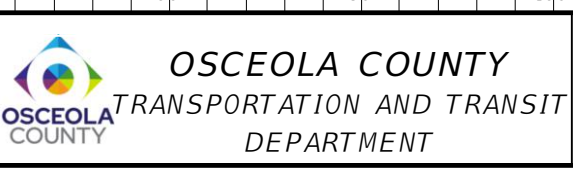
0.18	6.60	1411.30	4226.72
3.57	6.22	890.54	1746.10
3.15	11.54	995.26	3967.10

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz
1"=10' Vert.

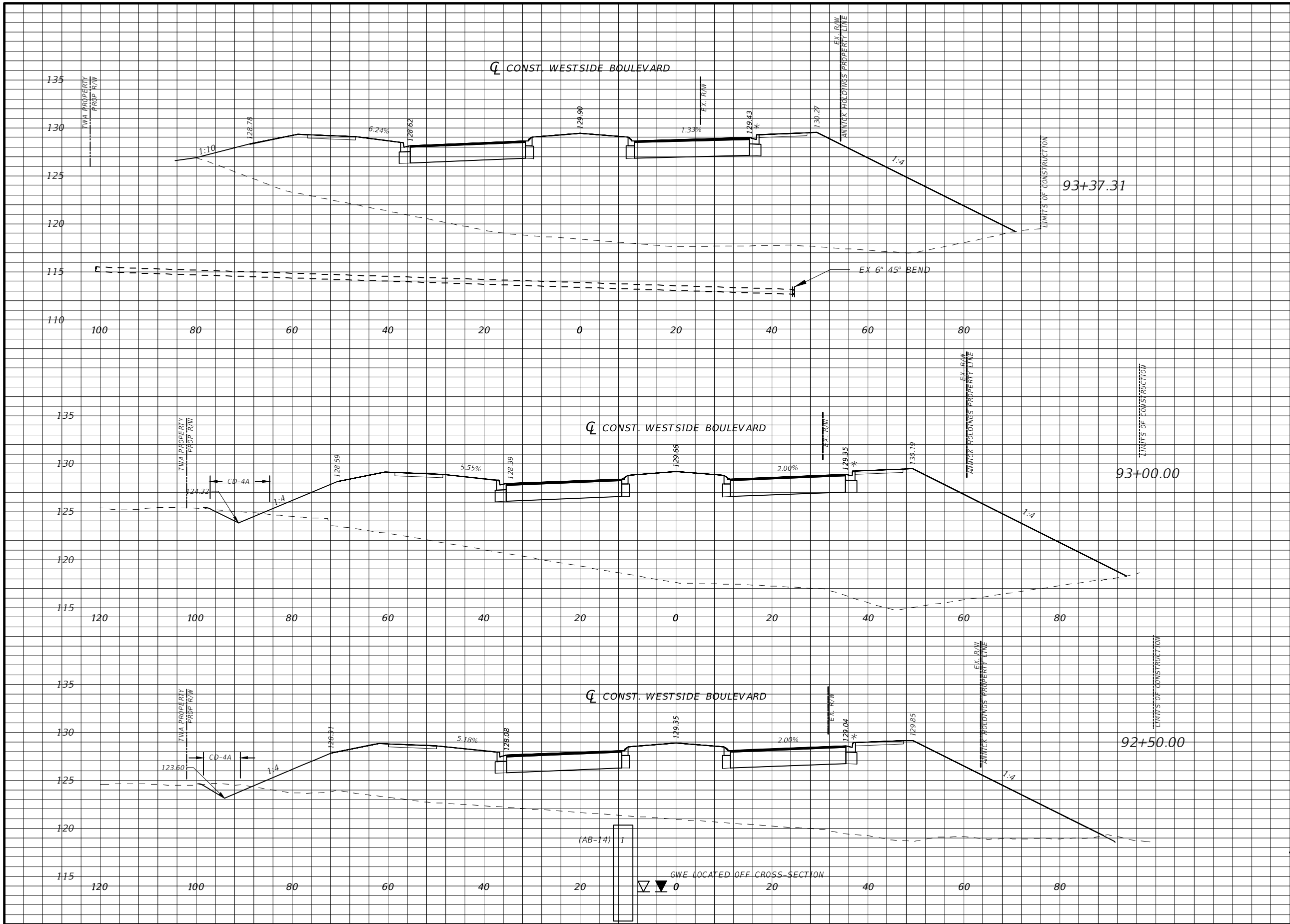
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

SHEET NO.
55



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
0.00	4.02	1387.87	2018.25
8.99	18.52	1100.74	4209.33

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN

Scale: 1"=20' Horiz
1"=10' Vert.

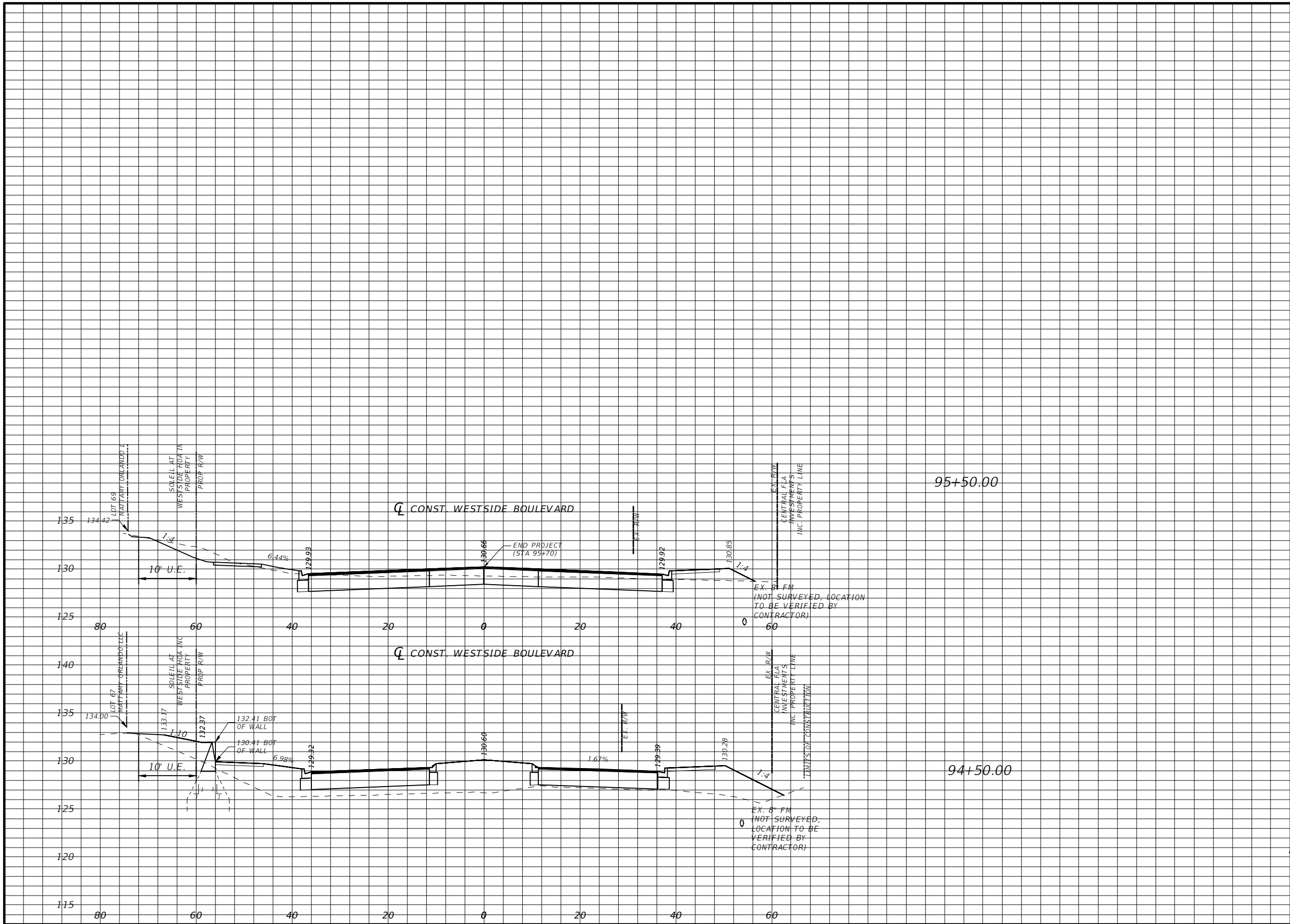
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

CROSS SECTIONS

SHEET NO.
56



Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
12.33	22.92	68.68	704.72		
0.04	0.09	311.87	3547.21		

* TYPE F CURB WHEN USED ON HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLAN.

Scale: 1"=20' Horiz
1"=10' Vert.

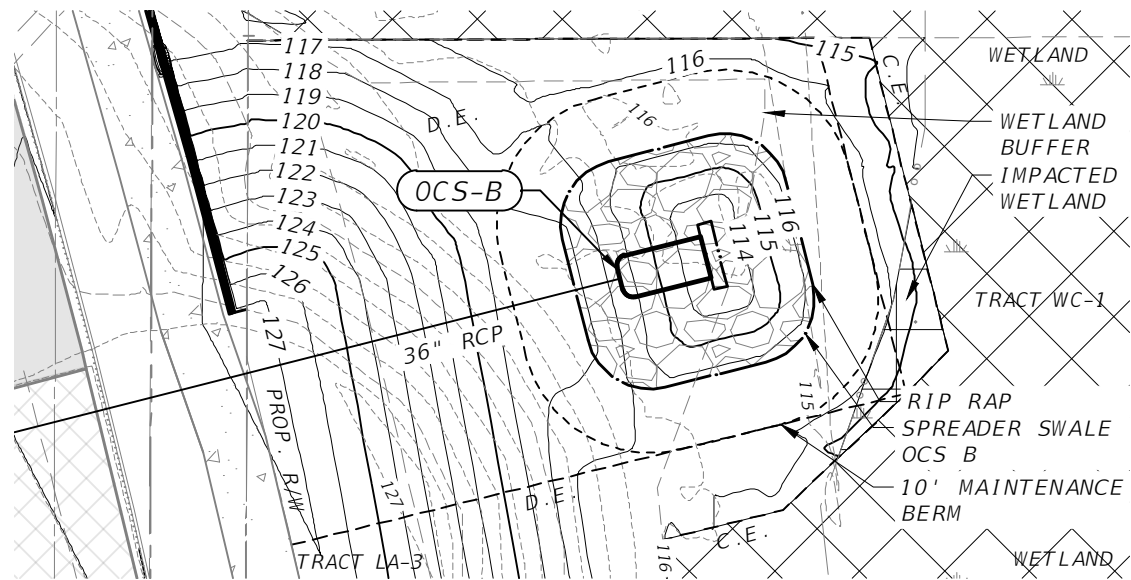
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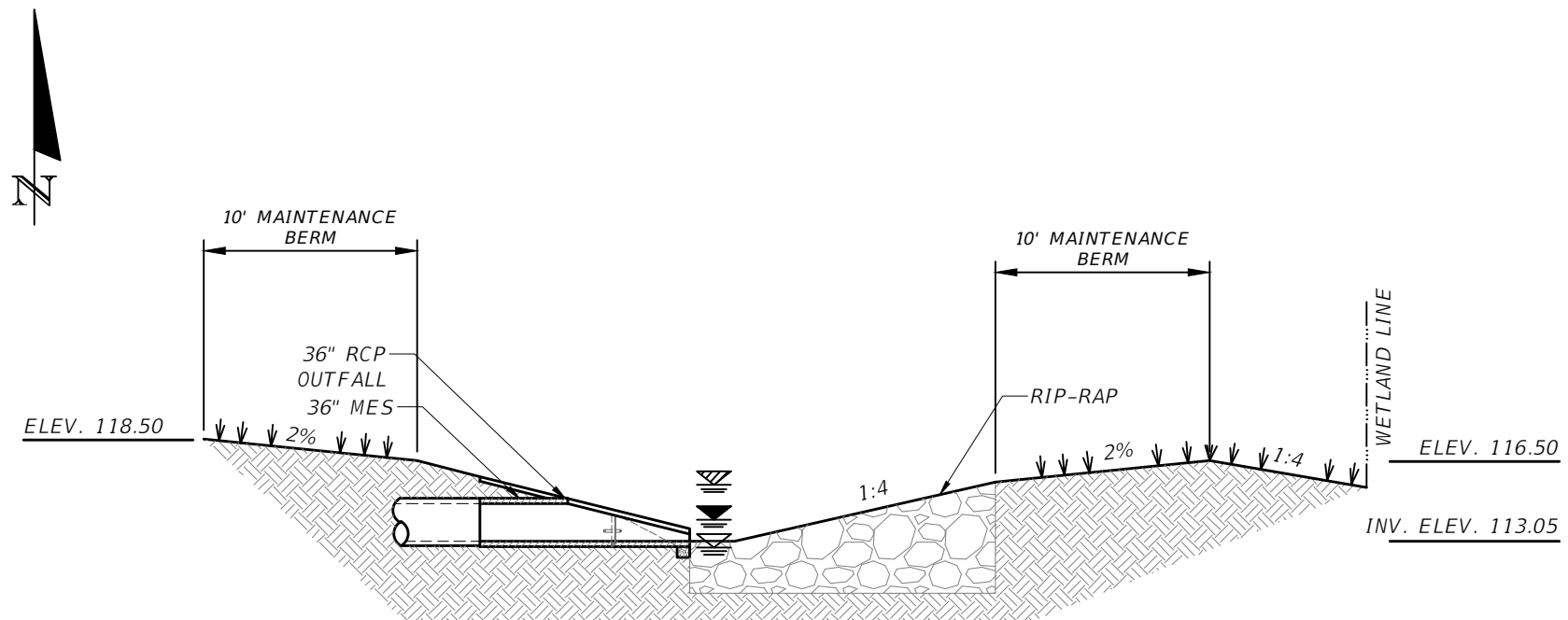
CROSS SECTIONS

SHEET NO.
57



OCS-B SPREADER SWALE - PLAN VIEW

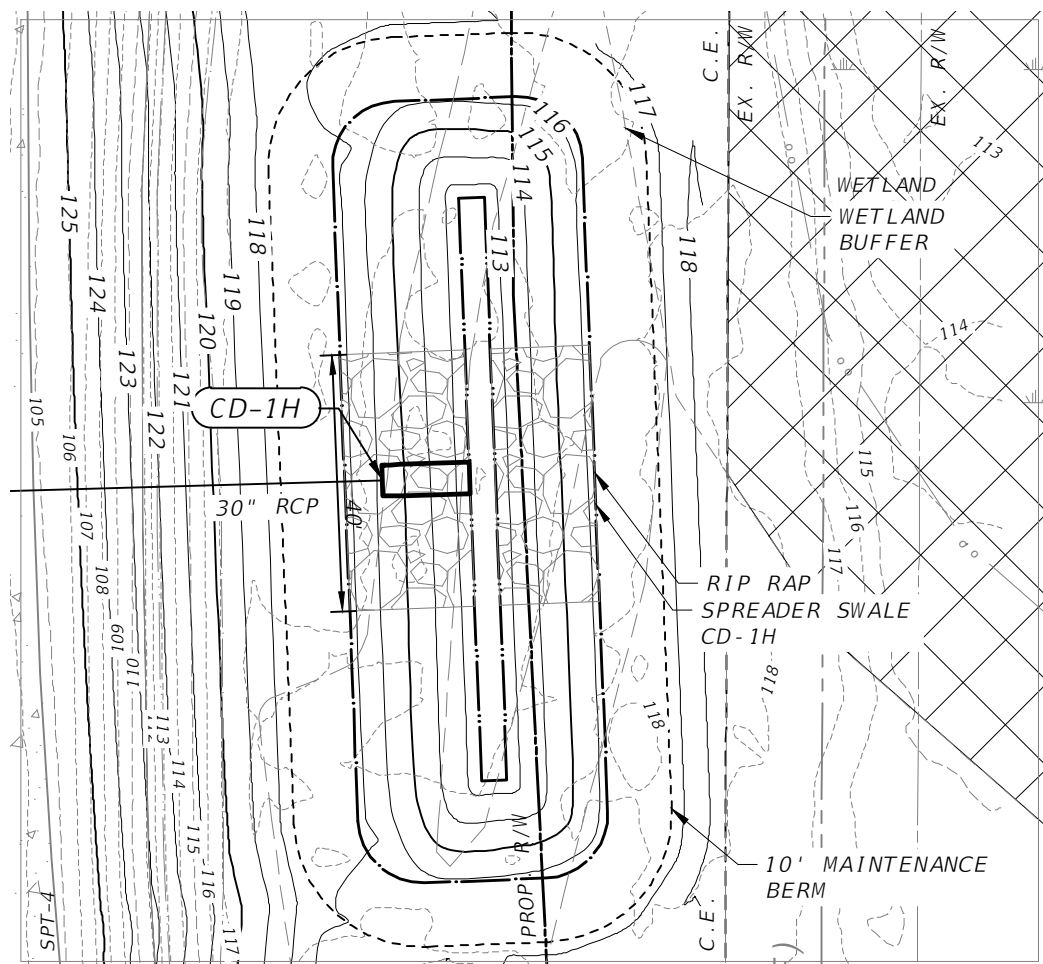
SCALE 1" = 30'



OCS-B SPREADER SWALE - DETAIL

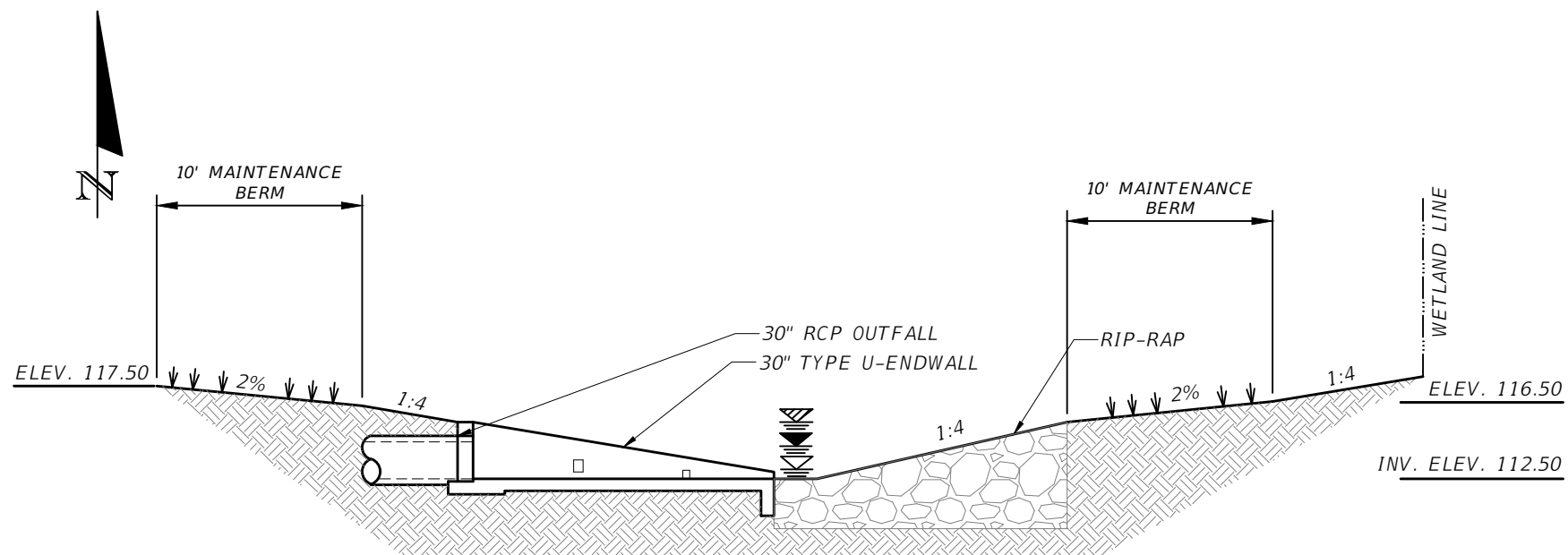
NTS

- TWA RIBS GWT= 116.15
- SHGWT = 114.4 (SPT-1)
- NWL = 112.7 (SPT-1)



CD-1H SPREADER SWALE - PLAN VIEW

SCALE 1" = 30'



CD-1H SPREADER SWALE - DETAIL

NTS

- TWA RIBS GWT= 116.15
- SHGWT = AGS (SPT-4)
- NWL = 113.1 (SPT-4)

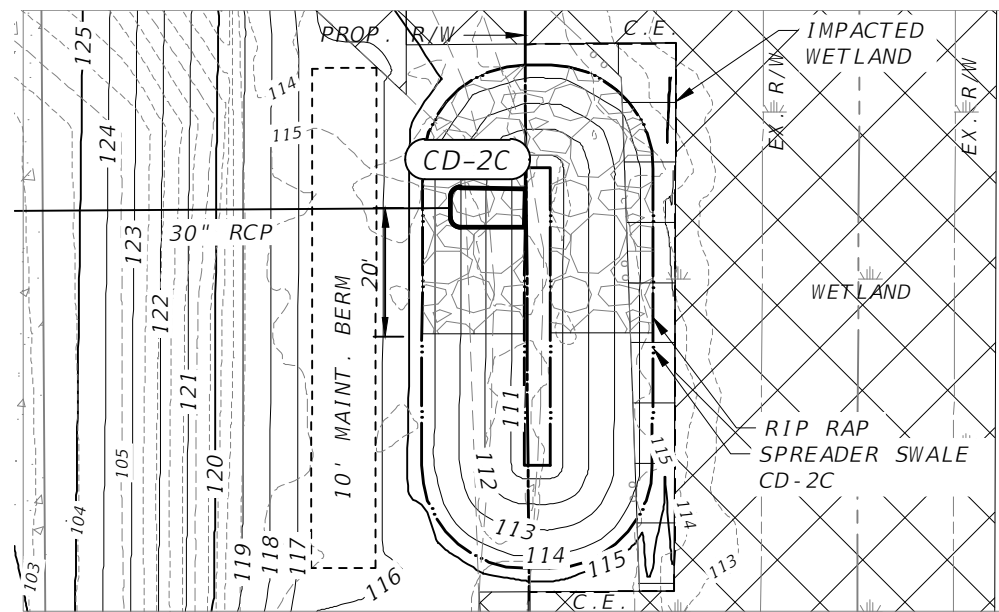
REVISIONS			
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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

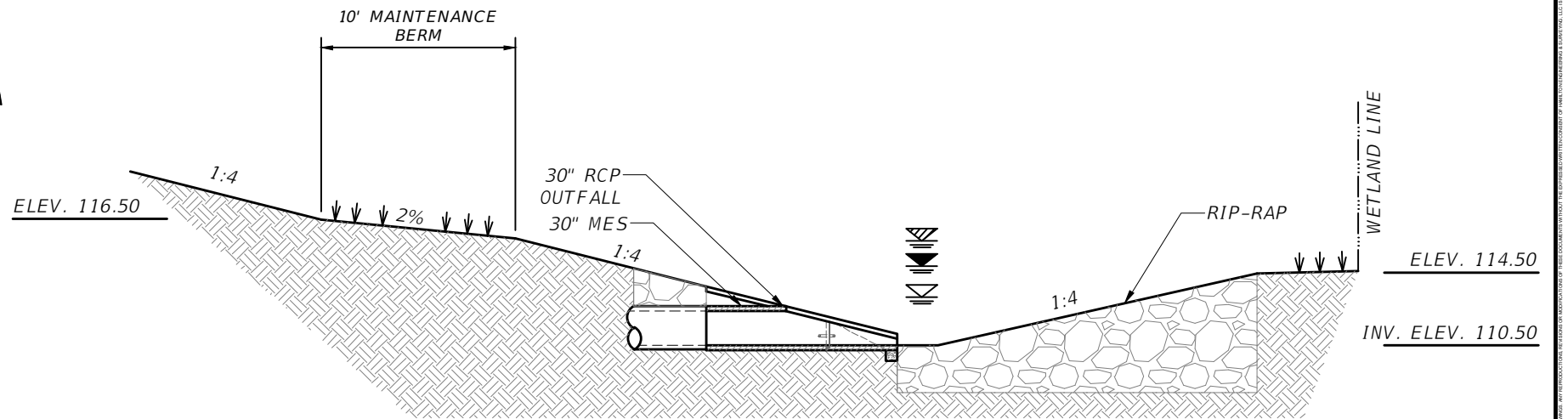
DRAINAGE DETAILS

SHEET NO.
58



CD-2C SPREADER SWALE - PLAN VIEW

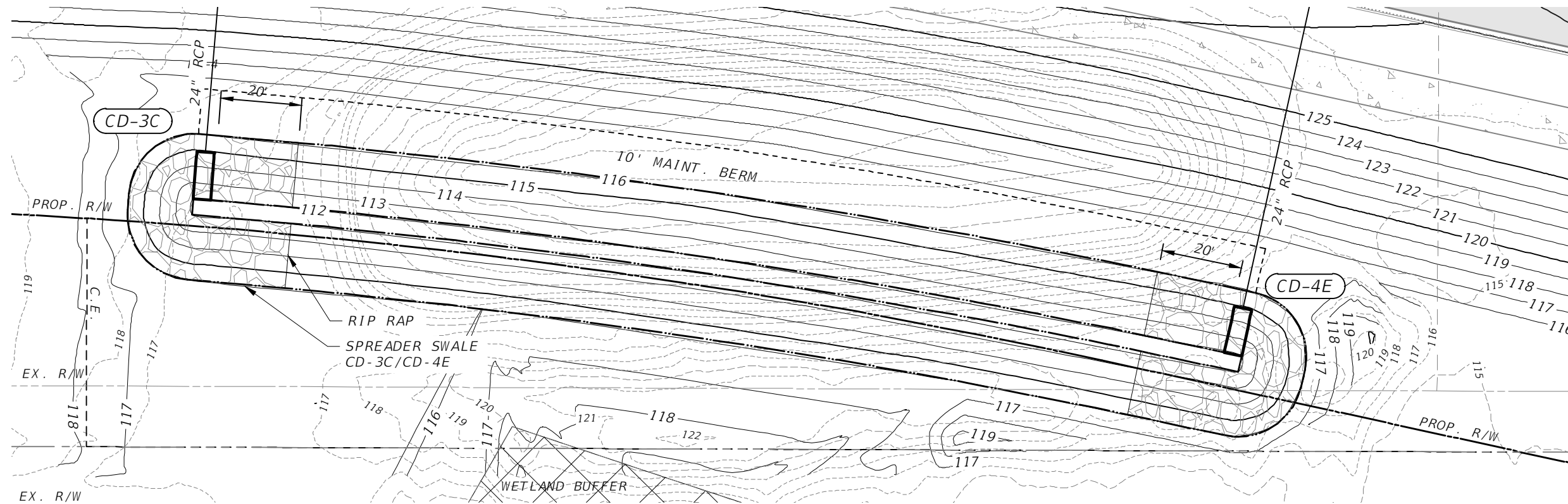
SCALE 1" = 30'



CD-2C SPREADER SWALE - DETAIL

NTS

- TWA RIBS GWT = 116.15
- SHGWT = 114.9 (AB-5)
- NWL = 112.9 (AB-5)



CD-3C/CD-4E SPREADER SWALE - PLAN VIEW*

SCALE 1" = 30'

*CD-3C/CD-4E SPREADER SWALE DETAILS LOCATED ON THE FOLLOWING SHEET

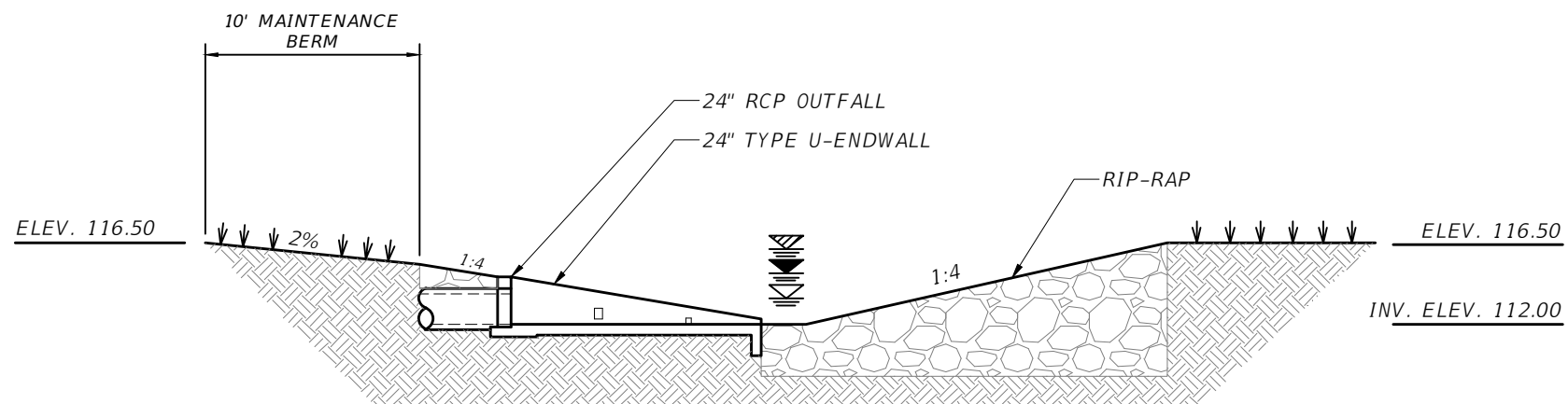
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TRANSPORTATION AND TRANSIT
DEPARTMENT




DRAINAGE DETAILS

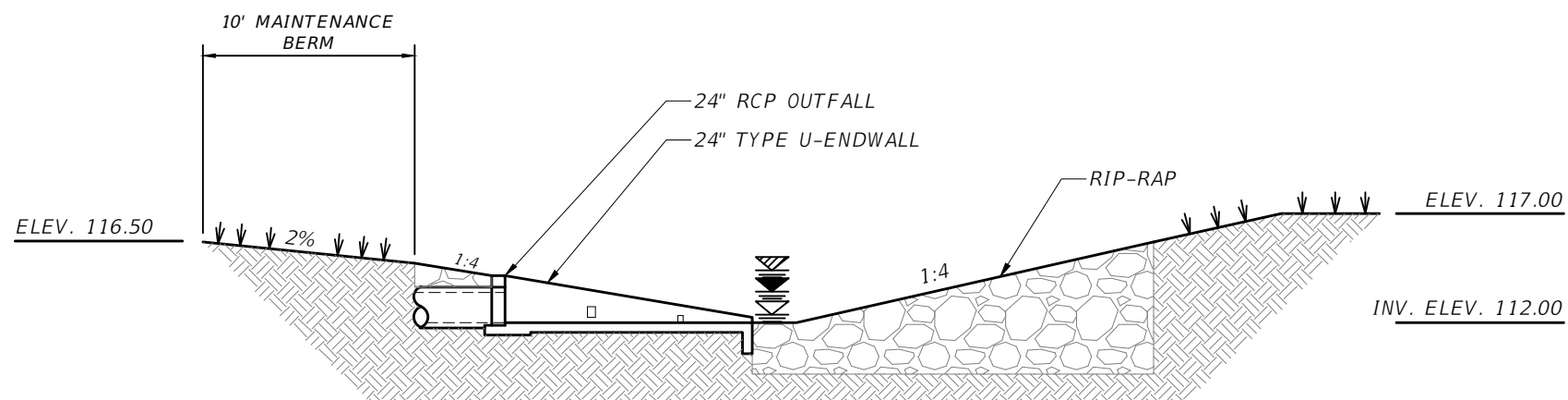
SHEET
NO.
59



CD-3C SPREADER SWALE - DETAIL




NTS

 TWA RIBS GWT= 116.15
 SHGWT = 115.2 (PB-4)
 NWL = 113.3 (PB-4)



CD-4E SPREADER SWALE - DETAIL

NTS

 TWA RIBS GWT= 116.15
 SHGWT = 114.9 (AB-11)
 NWL = 112.7 (AB-11)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

DRAINAGE DETAILS

SHEET
 NO.
60

WESTSIDE BOULEVARD TRAFFIC CONTROL PHASE NOTES

1. THE INTENT OF THESE PHASES ARE TO CONSTRUCT A ROAD ON AN ORPHANED SECTION BETWEEN WESTSIDE BOULEVARD THAT IS COMPLETED BY MATTAMY HOMES TO THE NORTH AND THE COMPLETED NORTH BOUND SECTION BY LENNAR TO THE SOUTH.
2. THE CONSTRUCTION OF THE SOUTH BOUND PORTION OF WESTSIDE BOULEVARD TO THE SOUTH BY EDEN GARDENS RESORTS IS ANTICIPATED TO BE UNDER CONSTRUCTION AT THE SAME TIME AS WESTSIDE BOULEVARD EXTENSION CONSTRUCTION, THEREFORE NO ADDITIONAL TRAFFIC CONTROL IS PROPOSED FOR SOUTH BOUND LANES.
3. TEMPORARY TYPE III BARRIERS AND ROAD CLOSURE SIGNS WILL BE PLACED ALONG THE EXISTING NORTH AND SOUTH TIE-INS TO KEEP TRAFFIC OUT OF WESTSIDE BOULEVARD EXTENSION DURING CONSTRUCTION.

PHASE I (1 MONTH)

- ROAD CLOSURE
- INSTALL EROSION AND SEDIMENT CONTROL FEATURES

PHASE II (1 YEAR)

- MILL AND RESURFACE STATION 63+50 - 65+00
- CONSTRUCT ROADWAY
- REMOVE EROSION AND SEDIMENT CONTROL FEATURES






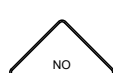

PHASE III (1 WEEK)

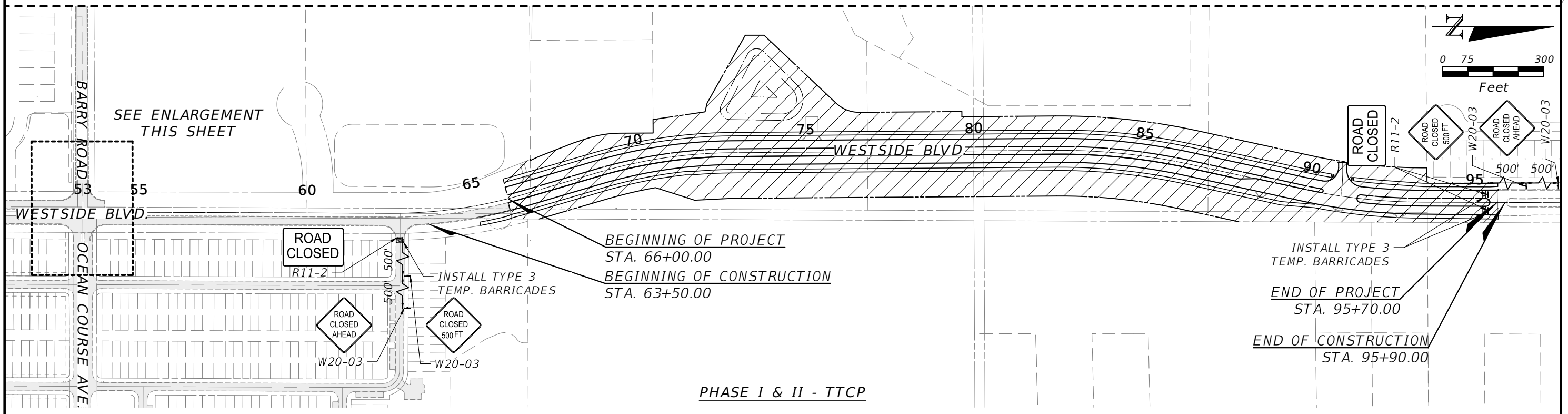
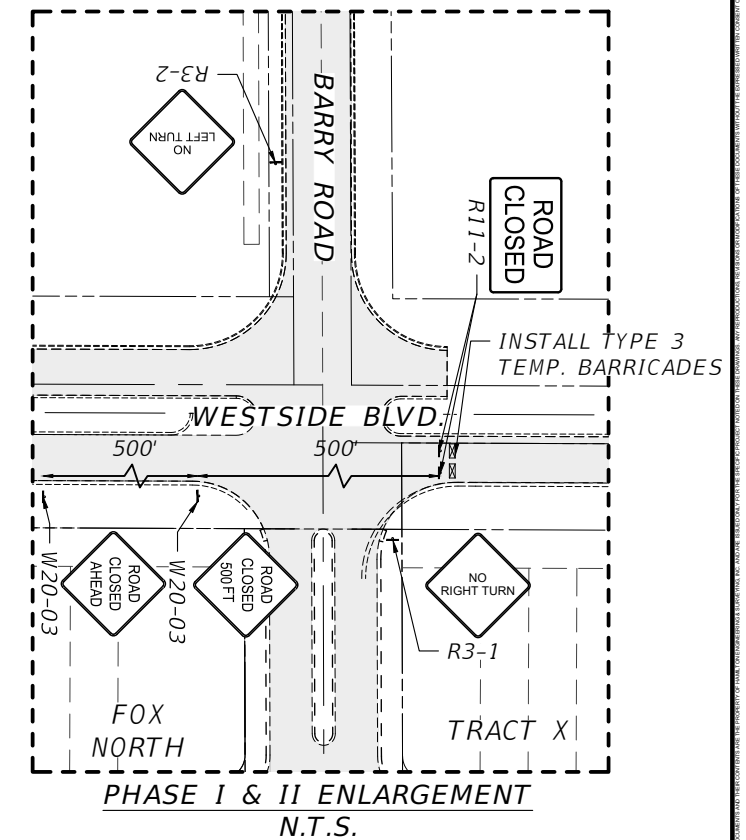
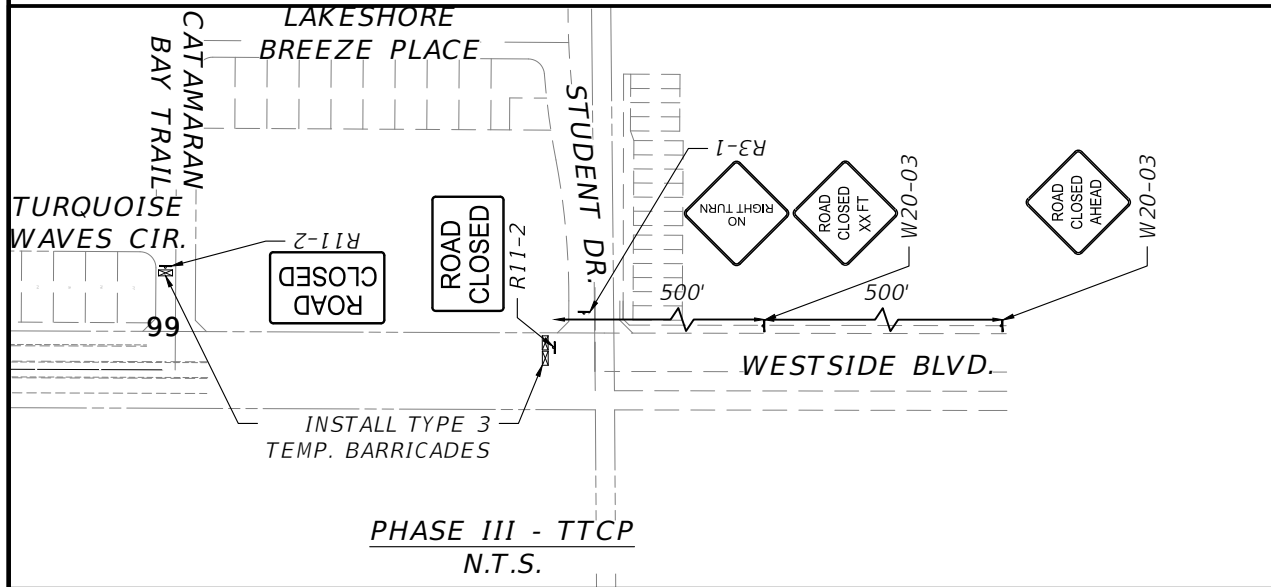
- MILL AND RESURFACE STATION 63+50 - 65+00 & 95+70 - 95+90
- BARRICADES/ROAD CLOSURE TO REMAIN AT SOUTH TIE-IN

PHASE IV

- REMOVE EROSION AND SEDIMENT CONTROL FEATURES
- ROAD OPEN

LEGEND

-  WORK ZONE
-  TYPE 3 TEMP. BARRICADES
-  ROAD CLOSED 500 FT
-  ROAD CLOSED AHEAD
-  NO RIGHT TURN
-  NO LEFT TURN
-  ROAD CLOSED



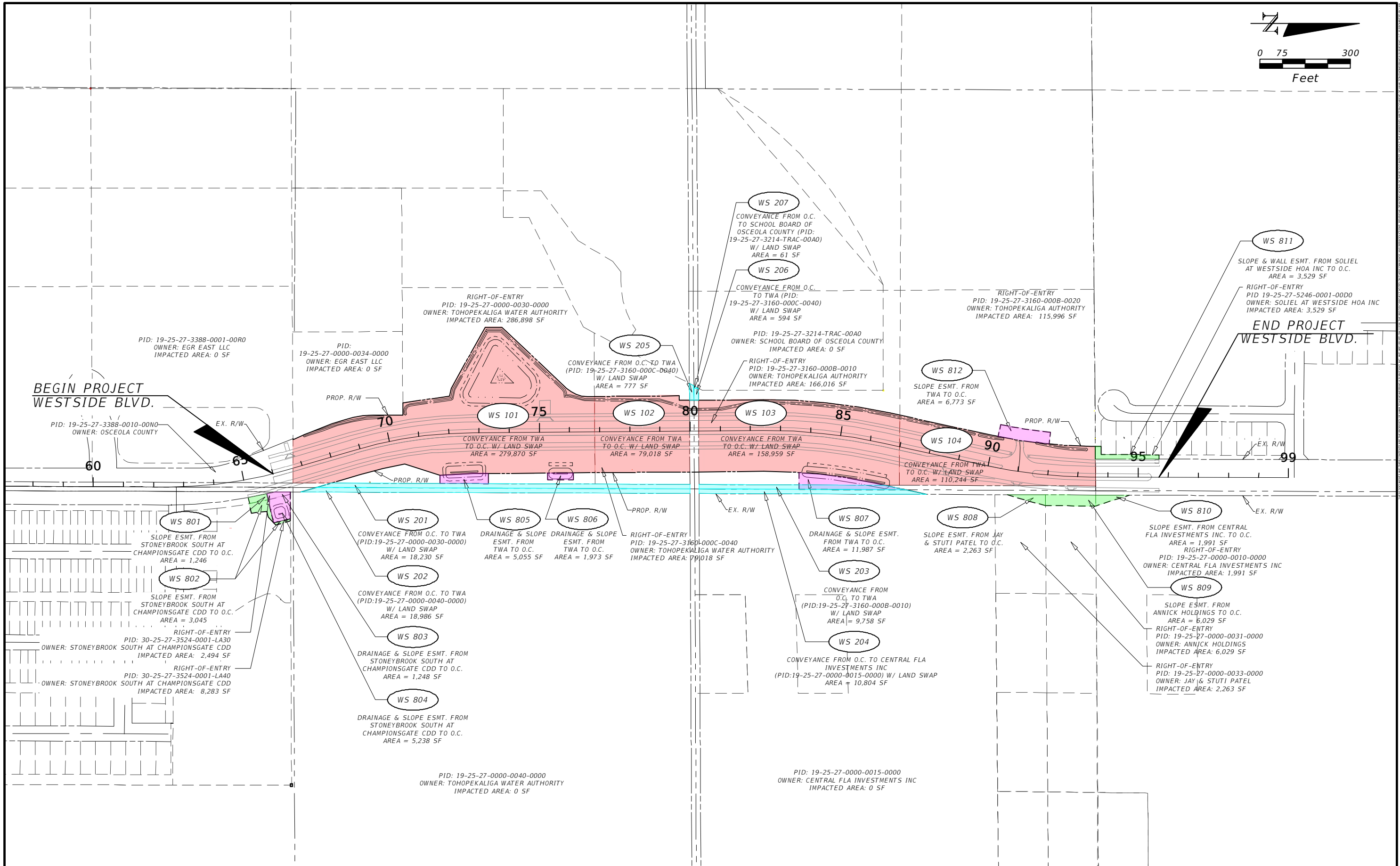
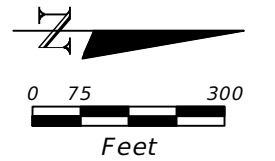
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TRANSPORTATION AND TRANSIT
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TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO.
61



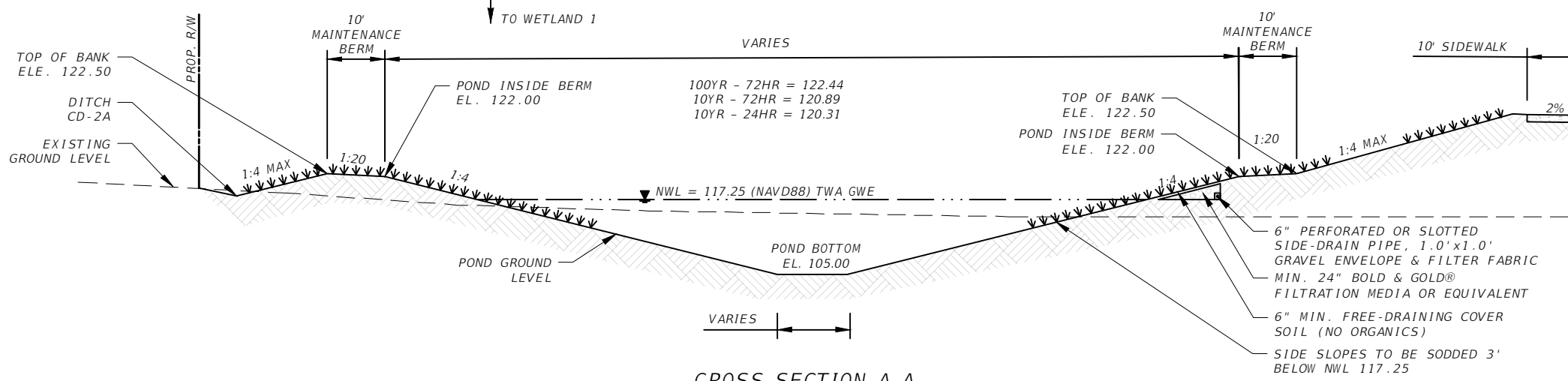
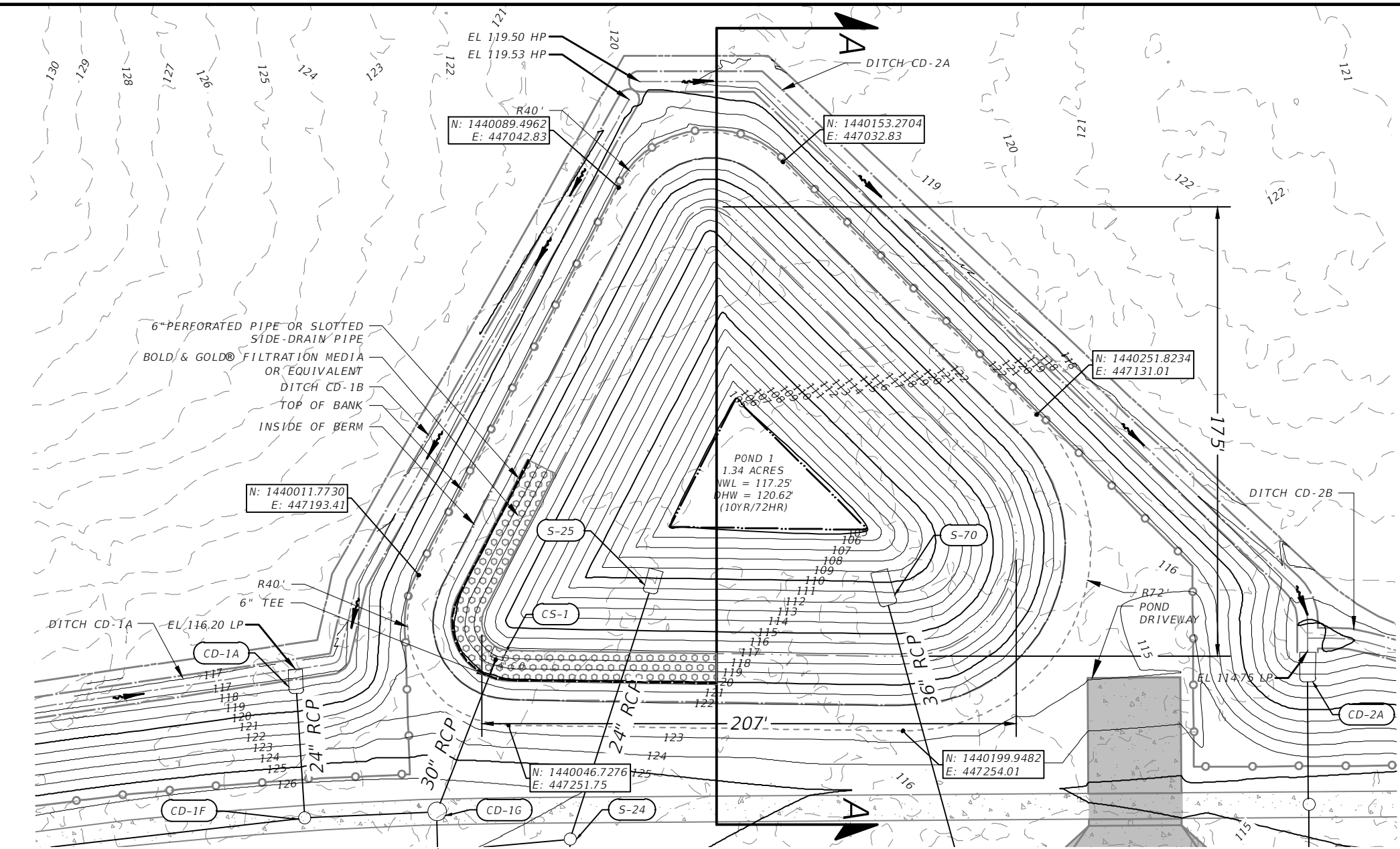
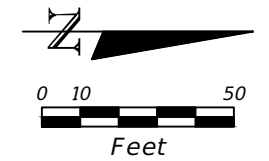
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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WESTSIDE BLVD. RIGHT OF WAY EXHIBIT

SHEET NO.
62



CROSS SECTION A-A
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

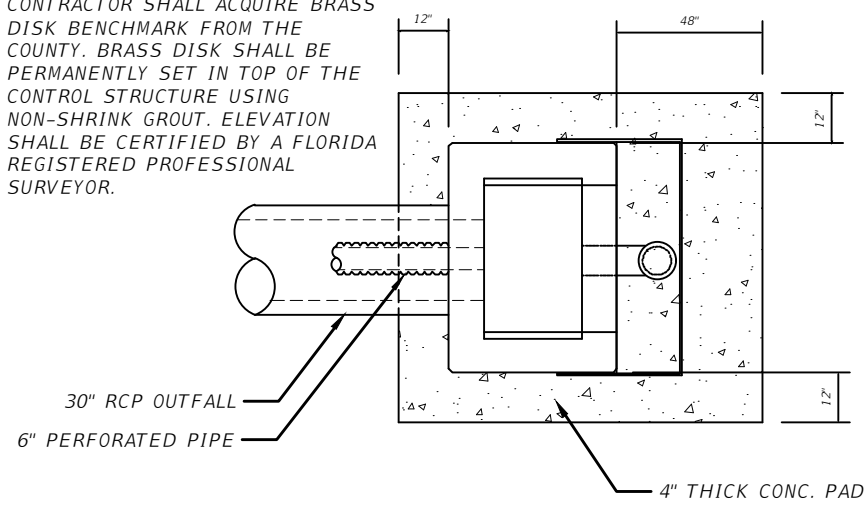
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

SHEET NO.
63

CONTRACTOR SHALL ACQUIRE BRASS DISK BENCHMARK FROM THE COUNTY. BRASS DISK SHALL BE PERMANENTLY SET IN TOP OF THE CONTROL STRUCTURE USING NON-SHRINK GROUT. ELEVATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR.



PLAN VIEW
N.T.S.

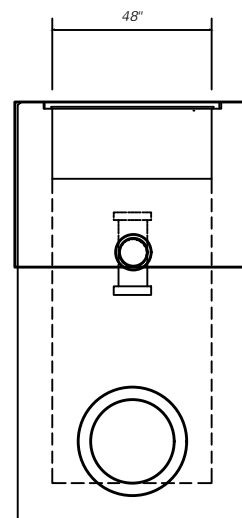
GRATE ELE. 122.00
TOP OF STRUCTURE

WEIR INV. 120.00

BOT. SKIMMER 117.25

BLEEDER INV. 117.25

RCP INV. 113.00 (OUTFALL)



FRONT VIEW
N.T.S.

6" PERF. PIPE INV. 117.25

4" CLEAN OUT
6" PERFORATED PIPE
6" TEE

TYPE D MODIFIED DBI
CAST IRON GRATE

30" RCP OUTFALL

SIDE VIEW
N.T.S.

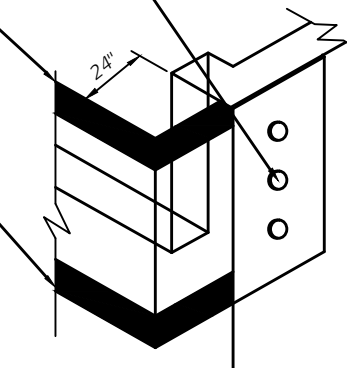
1
4

6" PVC TEE
6" TOP CAP
6" BOTTOM CAP W/ 3" DIA. DRILL
GROUT

CONTROL STRUCTURE CS-1 FDOT TYPE D MODIFIED DBI
N.T.S.

FASTEN SKIMMER TO STRUCTURE WITH 3/8" X 4" GALV. EXPANSION ANCHOR BOLTS & FASTENERS (TYP)
1/4" FIBERGLASS SKIMMER

1/2" X 1/2" FIBERGLASS ANGLE REINFORCING BRACKET (TYP) (TOP AND BOTTOM FULL LENGTH OF SKIMMER)



SKIMMER DETAIL
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

POND DETAILS (2)

SHEET NO.

64

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT INVOLVES THE CONSTRUCTION OF THE CONNECTION OF WESTSIDE BOULEVARD. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SIDEWALKS AND THE STORMWATER MANAGEMENT SYSTEM. THE PROJECT LIMITS ALONG WESTSIDE BOULEVARD ARE FROM STATION 66+00 OF WESTSIDE BOULEVARD TO STATION 95+70 OF WESTSIDE BOULEVARD A DISTANCE OF APPROXIMATELY 0.57 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS A SEQUENCE IS PROPOSED THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
3. STORM DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, GRAVITY WALL, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.

1.A. AREA ESTIMATES:

TOTAL SITE AREA: 9.73 ACRES
TOTAL AREA TO BE DISTURBED: 15.85 ACRES

1.B. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.34
DURING: VARIES FROM 0.34 TO 0.63
AFTER: 0.63

1.A. SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE PROJECT ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S) . IN GENERAL, THE SOILS WELL-DRAINED FINE SAND.

1.B. OUTFALL INFORMATION:

THERE ARE 5 OUTFALLS.

#1 DESCRIPTION: POND 1 OUTFALL

LOCATION: LATITUDE 28° 17' 37.1" N, LONGITUDE -82° 38' 54.8" W
EST. DRAINAGE AREA SIZE: 9.73 ACRES
RECEIVING WATER NAME: WETLAND 1 POND DITCH BASIN ULTIMATELY TO REEDY CREEK DRAINAGE BASIN.

#2 DESCRIPTION: OFFSITE CROSS-DRAIN #1 - (SHARES OUTFALL WITH POND 1)

LOCATION: LATITUDE 28° 17' 37.1" N, LONGITUDE -82° 38' 54.8" W
EST. DRAINAGE AREA SIZE: 7.92 ACRES
RECEIVING WATER NAME: WETLAND 1 POND DITCH BASIN ULTIMATELY TO REEDY CREEK DRAINAGE BASIN.

#3 DESCRIPTION: OFFSITE CROSS-DRAIN #2

LOCATION: LATITUDE 28° 17' 40.4" N, LONGITUDE -82° 38' 54.8" W
EST. DRAINAGE AREA SIZE: 17.16 ACRES
RECEIVING WATER NAME: WETLAND 1 POND DITCH BASIN ULTIMATELY TO REEDY CREEK DRAINAGE BASIN.

#4 DESCRIPTION: OFFSITE CROSS-DRAIN #3

LOCATION: LATITUDE 28° 17' 48.4" N, LONGITUDE -82° 38' 54.9" W
EST. DRAINAGE AREA SIZE: 4.46 ACRES
RECEIVING WATER NAME: WETLAND 1 POND DITCH BASIN ULTIMATELY TO REEDY CREEK DRAINAGE BASIN.

#5 DESCRIPTION: OFFSITE CROSS-DRAIN #4

LOCATION: LATITUDE 28° 17' 50.9" N, LONGITUDE -82° 38' 54.4" W
EST. DRAINAGE AREA SIZE: 8.28 ACRES
RECEIVING WATER NAME: WETLAND 1 POND DITCH BASIN ULTIMATELY TO REEDY CREEK DRAINAGE BASIN.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE ALSO POND CROSS SECTIONS PROVIDED.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

* AREAS NOT TO BE DISTURBED: THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE PLAN-PROFILE SHEETS.

* LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER POND IS THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROL. IT IS SHOWN ON THE POND DETAIL SHEET AND POND CROSS SECTIONS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS.

** SURFACE WATERS: THERE ARE A TOTAL OF 2.42 ACRES OF SURFACE WATER IMPACTS (0.29 PRIMARY WETLAND IMPACTS, 2.13 SECONDARY WETLAND IMPACTS) WITHIN THE PROJECT LIMITS.

* DISCHARGE POINTS TO SURFACE WATERS: THE SURFACE WATER IMPACTS ARE LOCATED IN THE FOLLOWING LOCATIONS: WESTSIDE BOULEVARD RT SIDES STA. 66+00 - 70+00 AND STA. 76+00 - 78+00. PLEASE REFER TO THE PLAN SHEETS.

1.A. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATION AND RECEIVING WATER NAMES. THERE ARE A TOTAL OF 2.42 ACRES OF WETLAND IMPACTS WITHIN THE THE PROJECT LIMITS. THE WETLAND IMPACTS ARE LOCATED IN THE FOLLOWING LOCATIONS: WESTSIDE BOULEVARD RT SIDES STA. 66+00 - 70+00 AND STA. 76+00 - 78+00. PLEASE REFER TO THE PLAN SHEETS.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION EST. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

2.A.1 STABILIZATION PRACTICES:

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

TEMPORARY:

- * ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
- * TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE.
- * SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:



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

TEMPORARY:

- * SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- * INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.
- * SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER POND WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:

- * STORMWATER PONDS.
- * SOD.

REVISIONS				 DAVID A. REID, P.E. P.E. LICENSE NUMBER 38794 HAMILTON ENGINEERING & SURVEYING, LLC 431 E. HORATIO AVE., SUITE 260 MAITLAND, FL 32751 (407) 629-8330 EXT 150	 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT DEPARTMENT	STORM WATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				65

2.B STORMWATER MANAGEMENT:

STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO ONE (1) STORMWATER WET DETENTION POND. THE FACILITIES HAVE BEEN PERMITTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) AND THE COUNTY OF OSCEOLA AND COMPLY WITH APPLICABLE STANDARD PLANS.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

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

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. INCLUDE IN THE PROPOSED METHODS AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

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

IN THE SECTION 104 EROSION CONTROL PLAN, DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

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

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

- * FDEP RULE CHAPTER 62-25 F.A.C.

3.0 MAINTENANCE:

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

- * SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING SILT FENCE ON 12-MONTH INTERVALS.
- * SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.



4.0 INSPECTIONS:

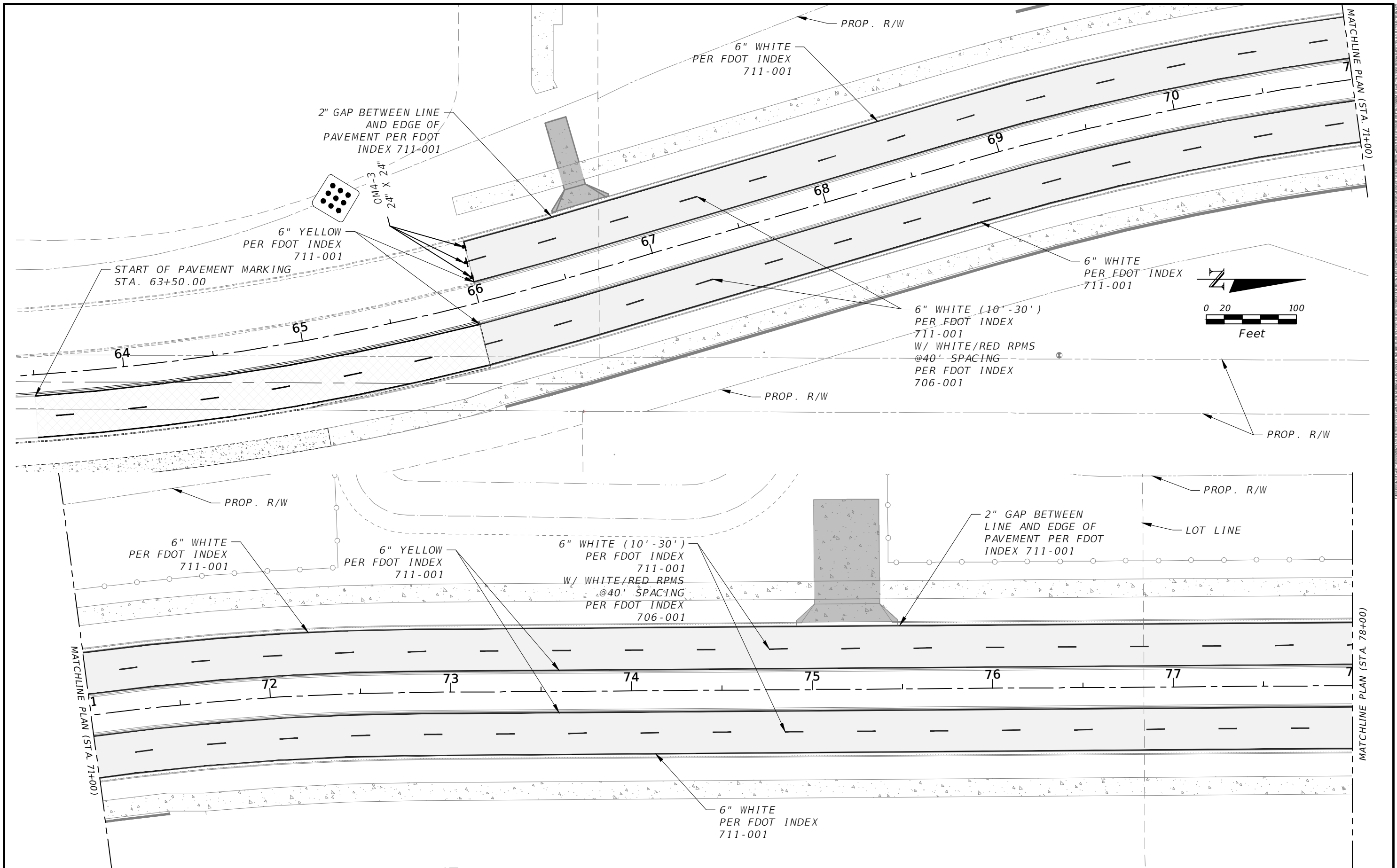
QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, CONDUCT INSPECTION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

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
 - * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
 - * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - * STRUCTURAL CONTROLS.
 - * STORMWATER MANAGEMENT SYSTEMS.
 - * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE COUNTY ENGINEER.

REVISIONS				 DAVID A. REID, P.E. P.E. LICENSE NUMBER 38794 HAMILTON ENGINEERING & SURVEYING, LLC 431 E. HORATIO AVE., SUITE 260 MAITLAND, FL 32751 (407) 629-8330 EXT 150	 OSCEOLA COUNTY TRANSPORTATION AND TRANSIT DEPARTMENT	STORM WATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				66



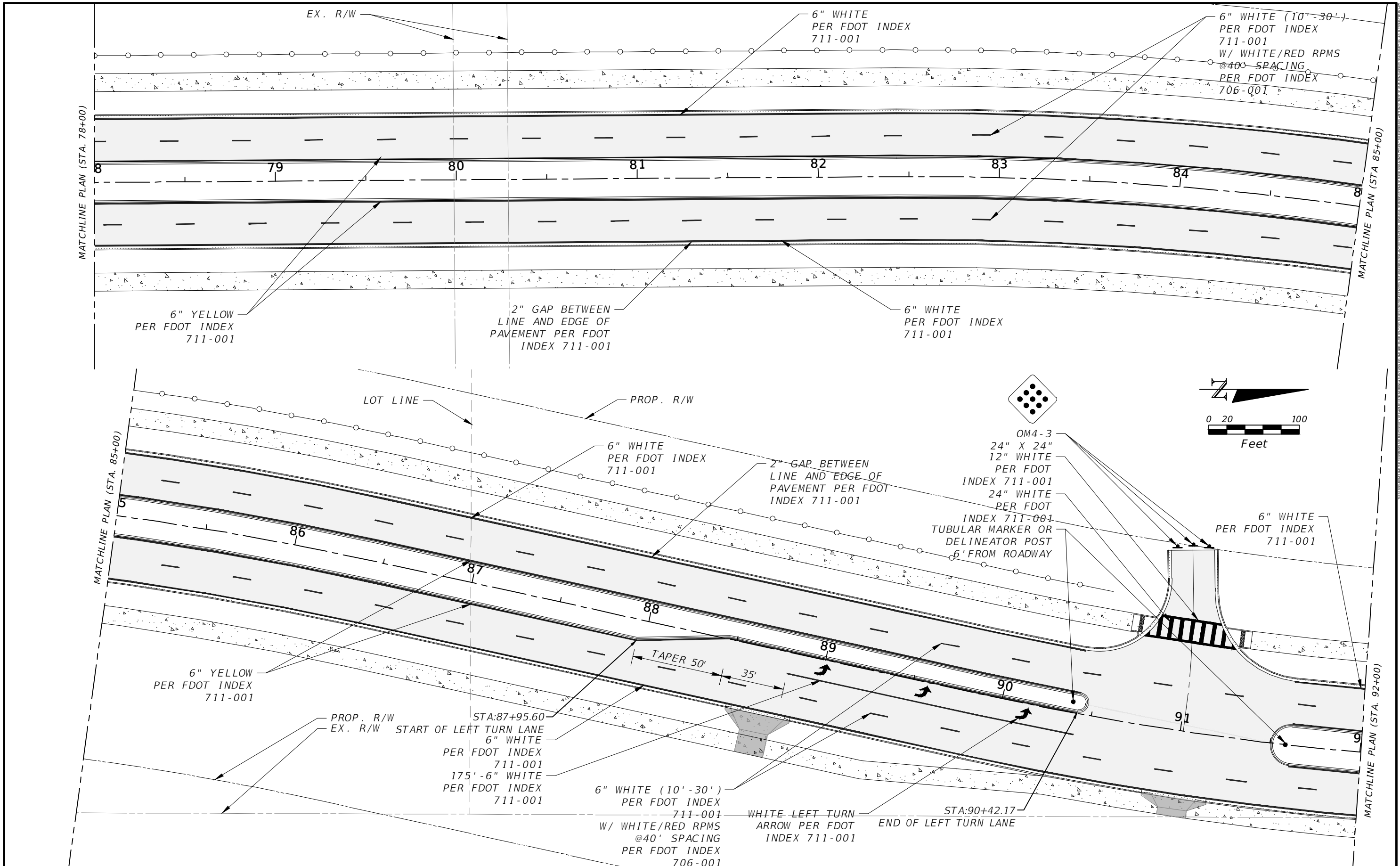
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
 P.E. LICENSE NUMBER 38794
 HAMILTON ENGINEERING & SURVEYING, LLC
 431 E. HORATIO AVE., SUITE 260
 ORLANDO, FL 32751
 (407) 629-8330 EXT 150


OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

**SIGNING AND
 PAVEMENT MARKING**
 (1)

SHEET
 NO.
67



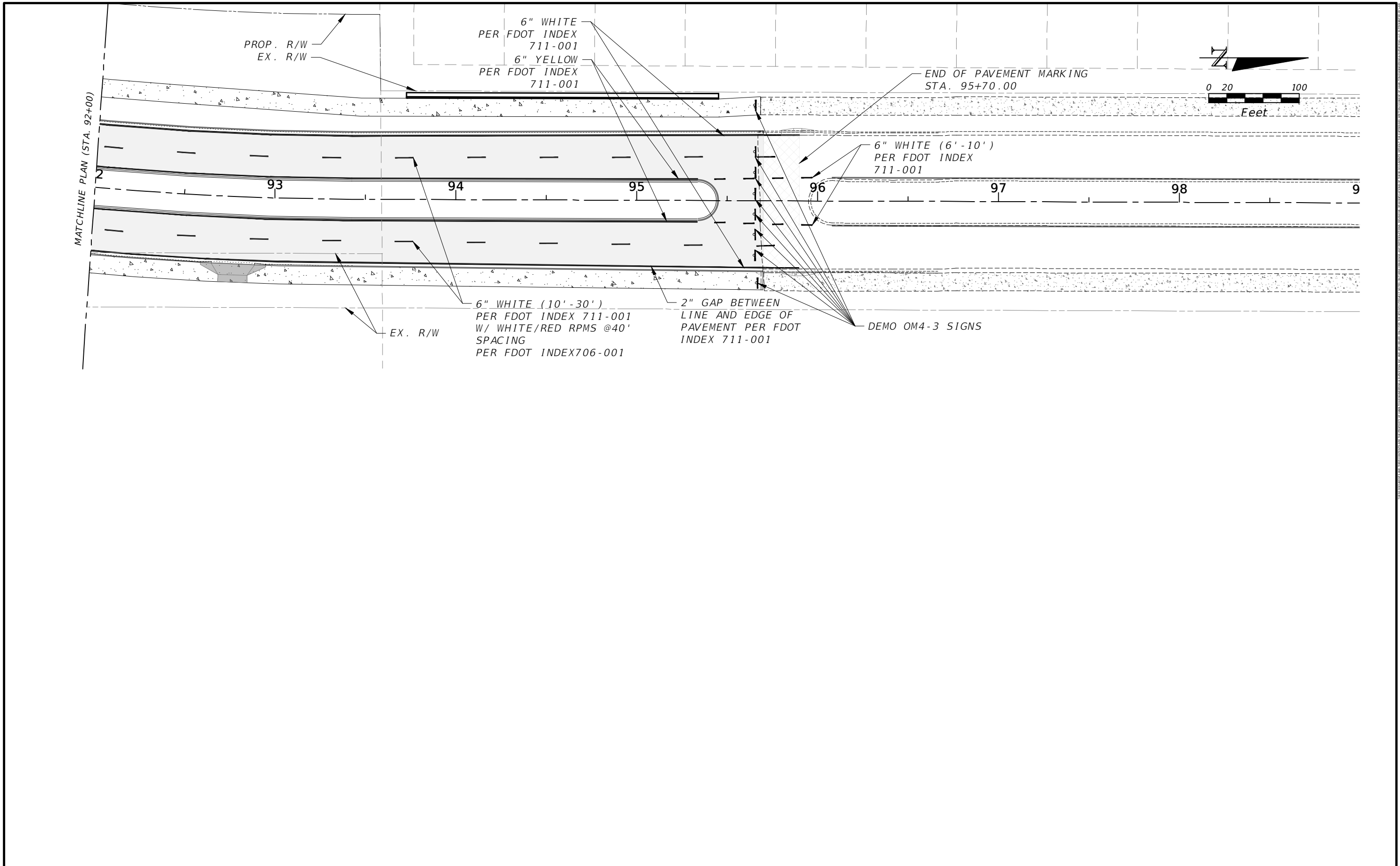
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

SIGNING AND PAVEMENT MARKING
(2)

SHEET NO.
68



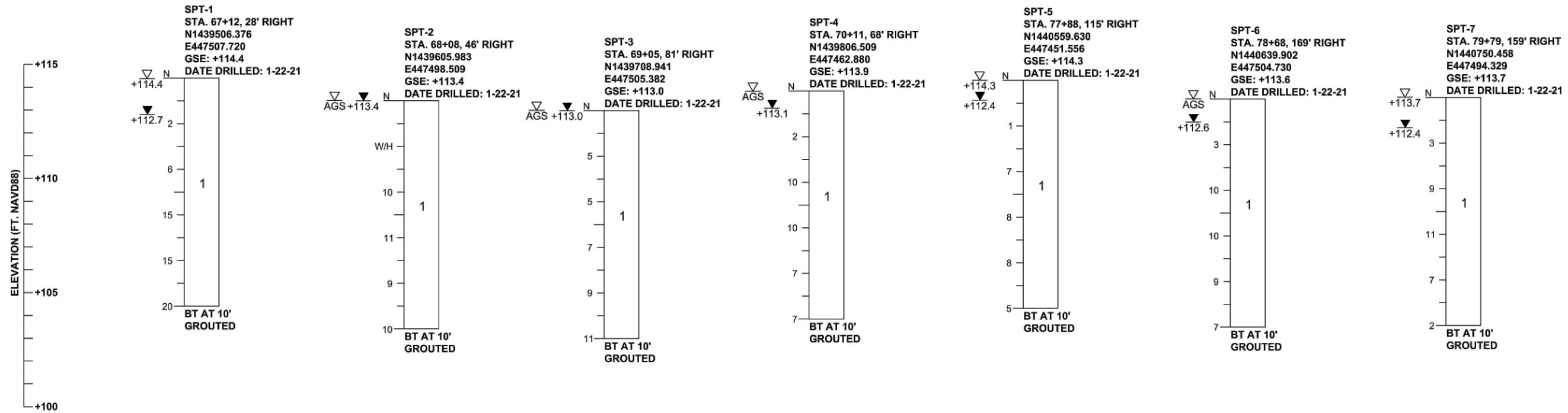
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150



SIGNING AND
PAVEMENT MARKING
(3)

SHEET
NO.
69



LEGEND

- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- W/H WEIGHT OF HAMMER
- 1 STRATUM NUMBER
- AGS ESTIMATED SEASONAL HIGH WATER LEVEL ABOVE GROUND SURFACE
- +113.7 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)
- +112.4 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88)
- BT BORING TERMINATED AT DEPTH INDICATED

GENERAL NOTES

- SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING AND SOUNDING 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.
- BORING LOCATIONS WERE SURVEYED BY DRMP, INC. FOR HORIZONTAL AND VERTICAL CONTROL. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING PROJECT PLANS AND A SUB-METER ACCURACY GPS UNIT (TRIMBLE 7X).
- SPLIT SPOON SAMPLER:
INSIDE DIAMETER: 1.375 IN.
OUTSIDE DIAMETER: 2.0 IN.
AVERAGE HAMMER DROP: 30 IN.
HAMMER WEIGHT: 140 LBS.

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

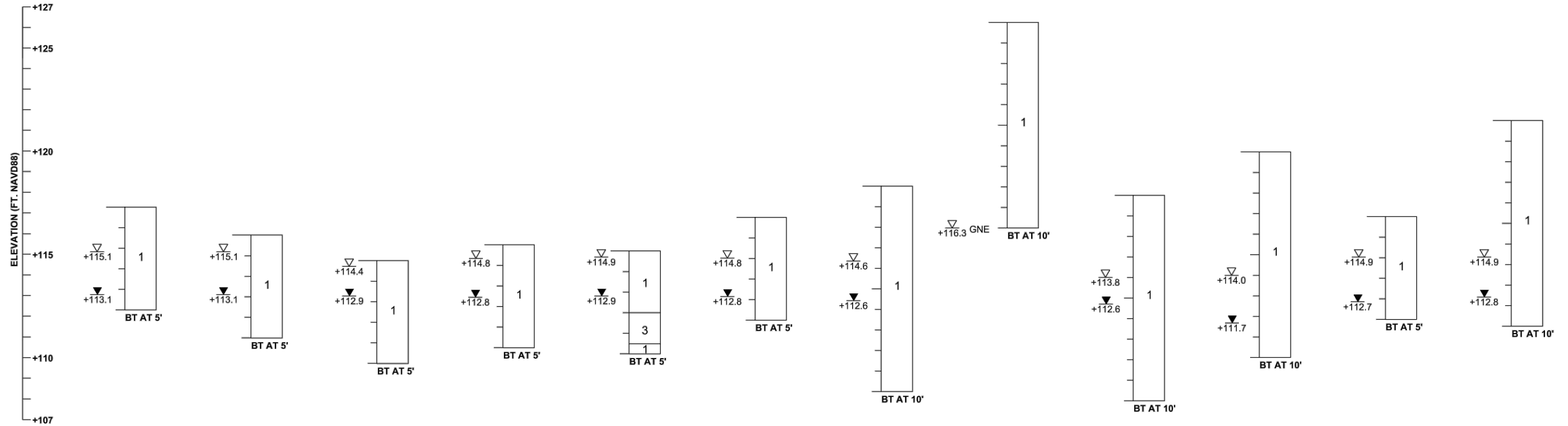
CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

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

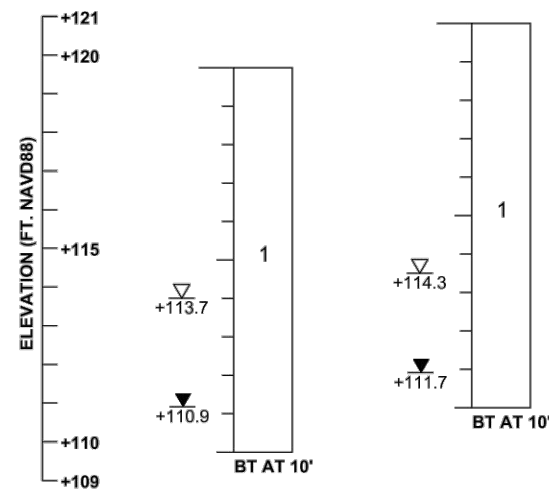
FIGURE 4

REVISIONS				GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 Michigan Avenue, Suite D Kissimmee, FL 34744-1933 T 407-483-1212 F 407-932-2912 CRAIG G. BALLOCK, P.E. NO. 71571		OSCEOLA COUNTY ENGINEERING DEPARTMENT 1 Courthouse Square, Suite 1100 Kissimmee, Florida 34741-5488 Voice: (407) 343-2600 Fax (407) 343-2623	ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					70

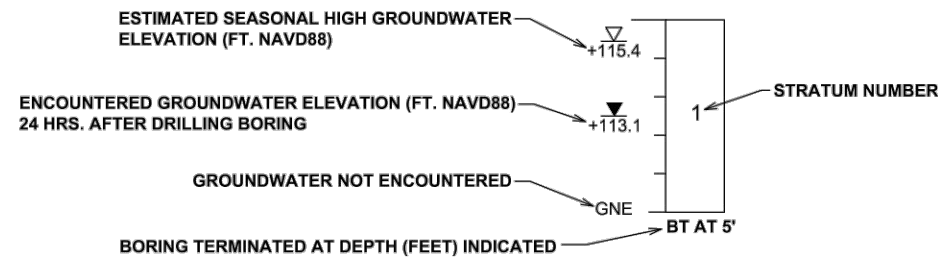
BORING NO.	AB-1	AB-2	AB-3	AB-4	AB-5	AB-6	AB-7	AB-8	AB-9	AB-10	AB-11	AB-12
STATION	66+91	68+86	70+92	72+90	74+82	76+83	78+84	80+79	82+78	84+75	86+67	88+71
OFFSET	45' LEFT	19' LEFT	39' LEFT	30' LEFT	52' LEFT	69' LEFT	22' LEFT	61' LEFT	12' LEFT	66' LEFT	14' LEFT	64' LEFT
NORTHING	1439469.202	1439662.141	1439856.721	1440058.333	1440251.896	1440452.793	1440654.194	1440849.546	1441048.596	1441253.796	1441437.043	1441647.042
EASTING	447441.193	447414.678	447338.926	447314.623	447286.413	447267.887	447313.100	447273.169	447320.651	447280.646	447367.939	447366.570
GSE	+117.3	+115.9	+114.7	+115.4	+115.1	+116.7	+118.2	+126.3	+117.8	+120.0	+116.9	+121.4
DATE DRILLED	1-22-21	1-16-21	1-22-21	1-16-21	1-22-21	1-22-21	1-22-21	1-16-21	1-16-21	1-16-21	1-16-21	1-16-21



BORING NO.	AB-13	AB-14
STATION	90+73	92+69
OFFSET	7' LEFT	13' LEFT
NORTHING	1441830.763	1442025.353
EASTING	447463.289	447475.561
GSE	+119.7	+120.8
DATE DRILLED	1-16-21	1-16-21



BORING LEGEND



GENERAL NOTES

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

BORING LOCATIONS WERE SURVEYED BY DRMP, INC. FOR VERTICAL AND HORIZONTAL CONTROL. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS UNIT (TRIMBLE 7X).

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

FIGURE 5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
 2510 Michigan Avenue, Suite D
 Kissimmee, FL 34744-1933
 T 407-483-1212 F 407-932-2912
 CRAIG G. BALLOCK, P.E. NO. 71571

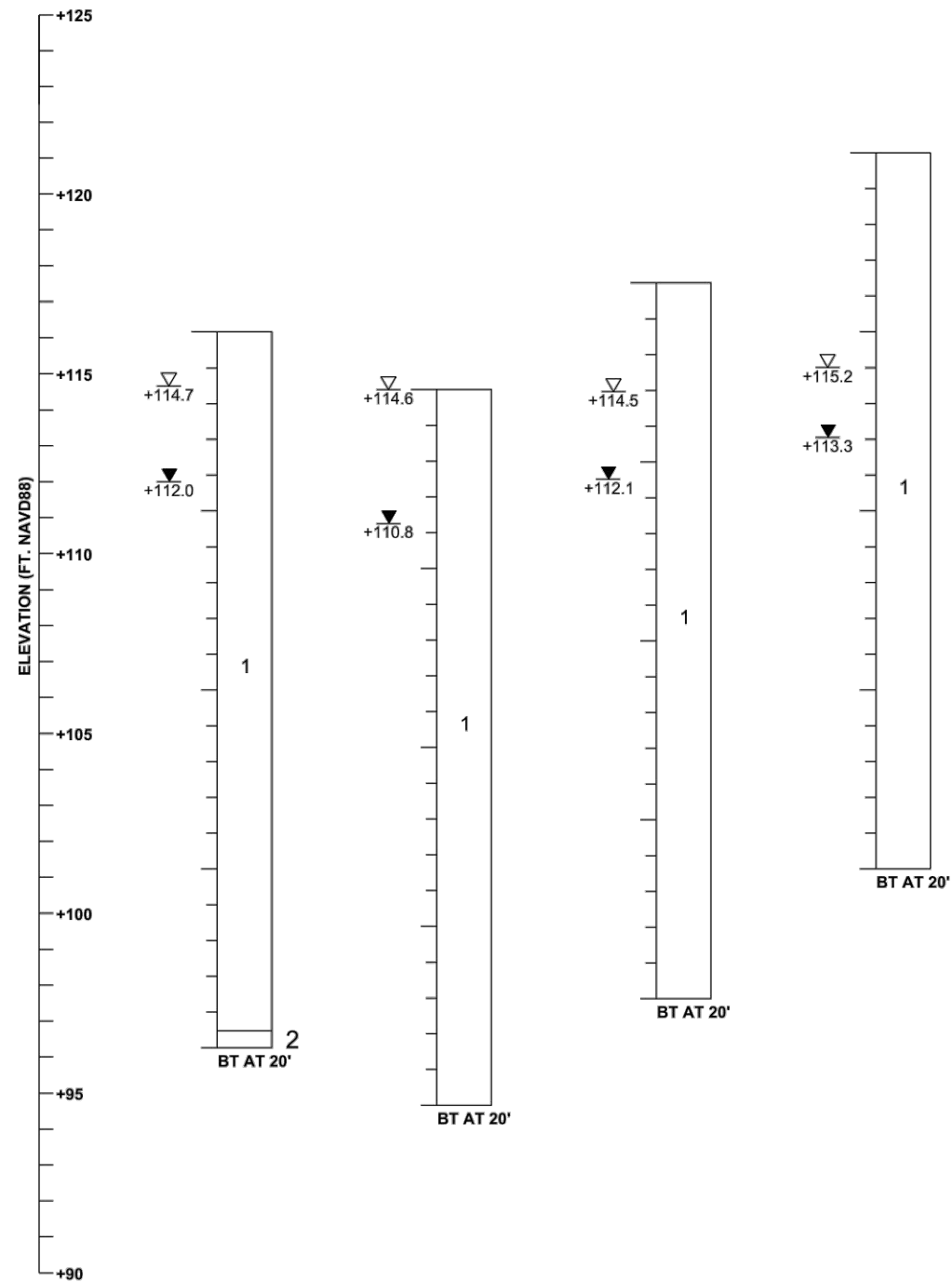


OSCEOLA COUNTY ENGINEERING DEPARTMENT
 1 Courthouse Square, Suite 1100
 Kissimmee, Florida 34741-5488
 Voice: (407) 343-2600 Fax (407) 343-2623

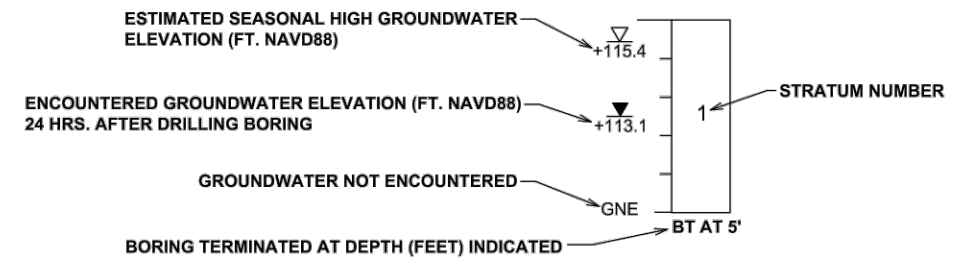
ROADWAY SOIL SURVEY

SHEET NO.
71

POND NAME:		POND 1		FLOOD PLAIN COMPENSATION AREA	
BORING NO.	PB-1	PB-2	PB-3	PB-4	
STATION	73+41	74+77	80+60	82+41	
OFFSET	196' LEFT	123' LEFT	113.1' RIGHT	161' RIGHT	
NORTHING	1440100.847	1440246.380	1440831.175	1441013.309	
EASTING	447145.131	447216.000	447447.294	447493.823	
GSE	+116.2	+114.6	+117.5	+121.2	
DATE DRILLED	2-18-21	2-18-21	2-18-21	2-18-21	



BORING LEGEND



GENERAL NOTES

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

BORING LOCATIONS WERE SURVEYED BY DRMP, INC. FOR VERTICAL AND HORIZONTAL CONTROL. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS UNIT (TRIMBLE 7X).

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2	A-2-4	DARK BROWN SILTY FINE SAND
3	A-8	DARK BROWN SANDY MUCK

FIGURE 6

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
 2510 Michigan Avenue, Suite D
 Kissimmee, FL 34744-1933
 T 407-483-1212 F 407-932-2912
CRAIG G. BALLOCK, P.E. NO. 71571






OSCEOLA COUNTY ENGINEERING DEPARTMENT
 1 Courthouse Square, Suite 1100
 Kissimmee, Florida 34741-5488
 Voice: (407) 343-2600 Fax (407) 343-2623

ROADWAY SOIL SURVEY

SHEET NO.
72

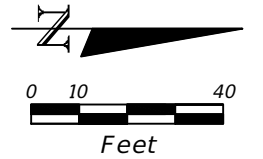
PLANT SCHEDULE WESTSIDE BLVD

TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING
	50	ACER RUBRUM	RED MAPLE	3" CAL., 1'-12'HT. X 60" SPD.	YES	HIGH	AS
	55	QUERCUS SHUMARDII	SHUMARD OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS
	50	QUERCUS VIRGINIANA	LIVE OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS

LEGEND

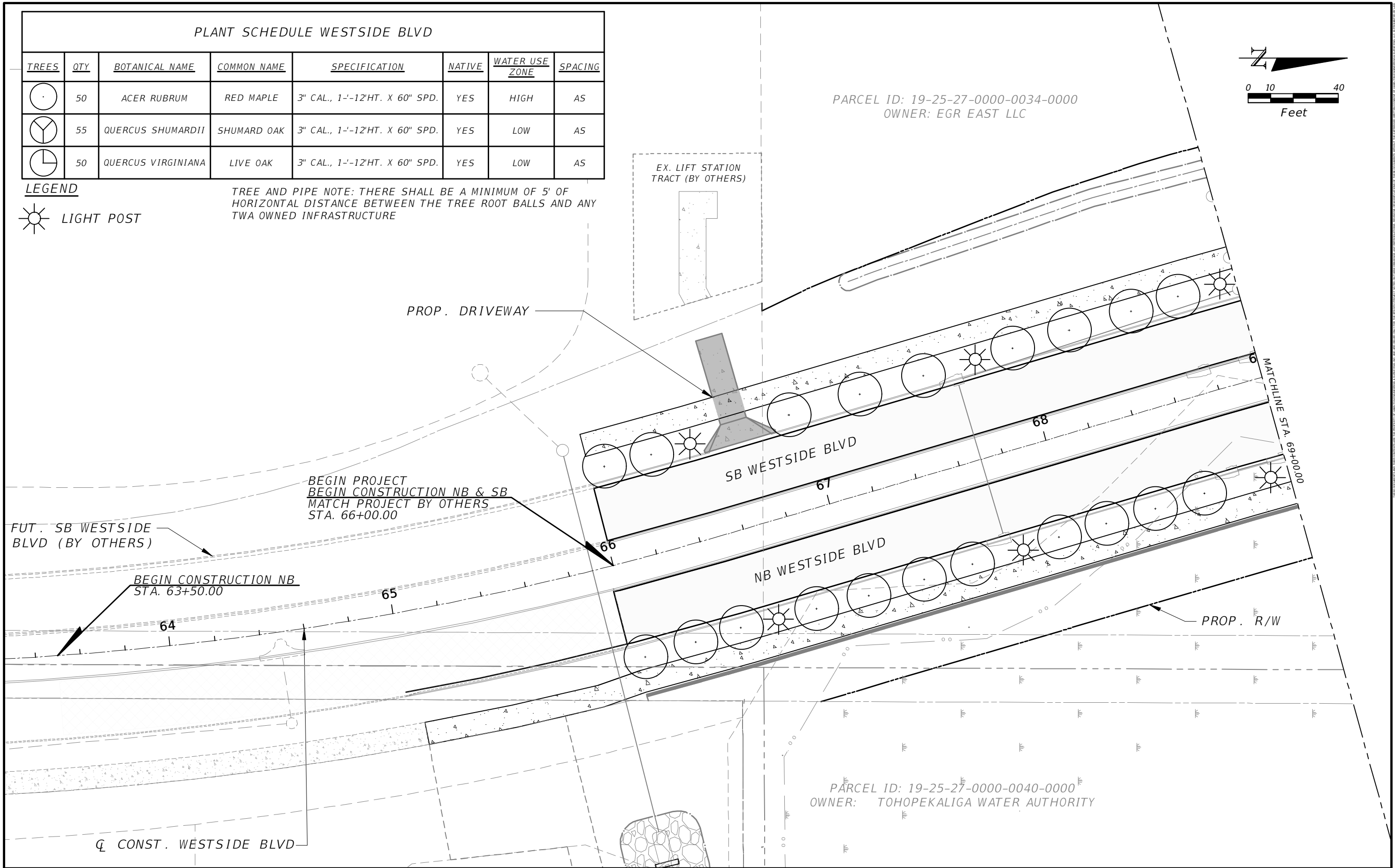


TREE AND PIPE NOTE: THERE SHALL BE A MINIMUM OF 5' OF HORIZONTAL DISTANCE BETWEEN THE TREE ROOT BALLS AND ANY TWA OWNED INFRASTRUCTURE



PARCEL ID: 19-25-27-0000-0034-0000
OWNER: EGR EAST LLC

EX. LIFT STATION TRACT (BY OTHERS)



PARCEL ID: 19-25-27-0000-0040-0000
OWNER: TOHOPEKALIGA WATER AUTHORITY

REVISIONS	
DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150






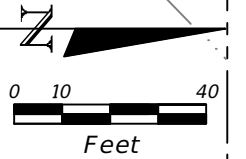
OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

LANDSCAPE PLAN

SHEET NO.
73

PLANT SCHEDULE WESTSIDE BLVD

TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING
	50	ACER RUBRUM	RED MAPLE	3" CAL., 1'-12'HT. X 60" SPD.	YES	HIGH	AS
	55	QUERCUS SHUMARDII	SHUMARD OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS
	50	QUERCUS VIRGINIANA	LIVE OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS



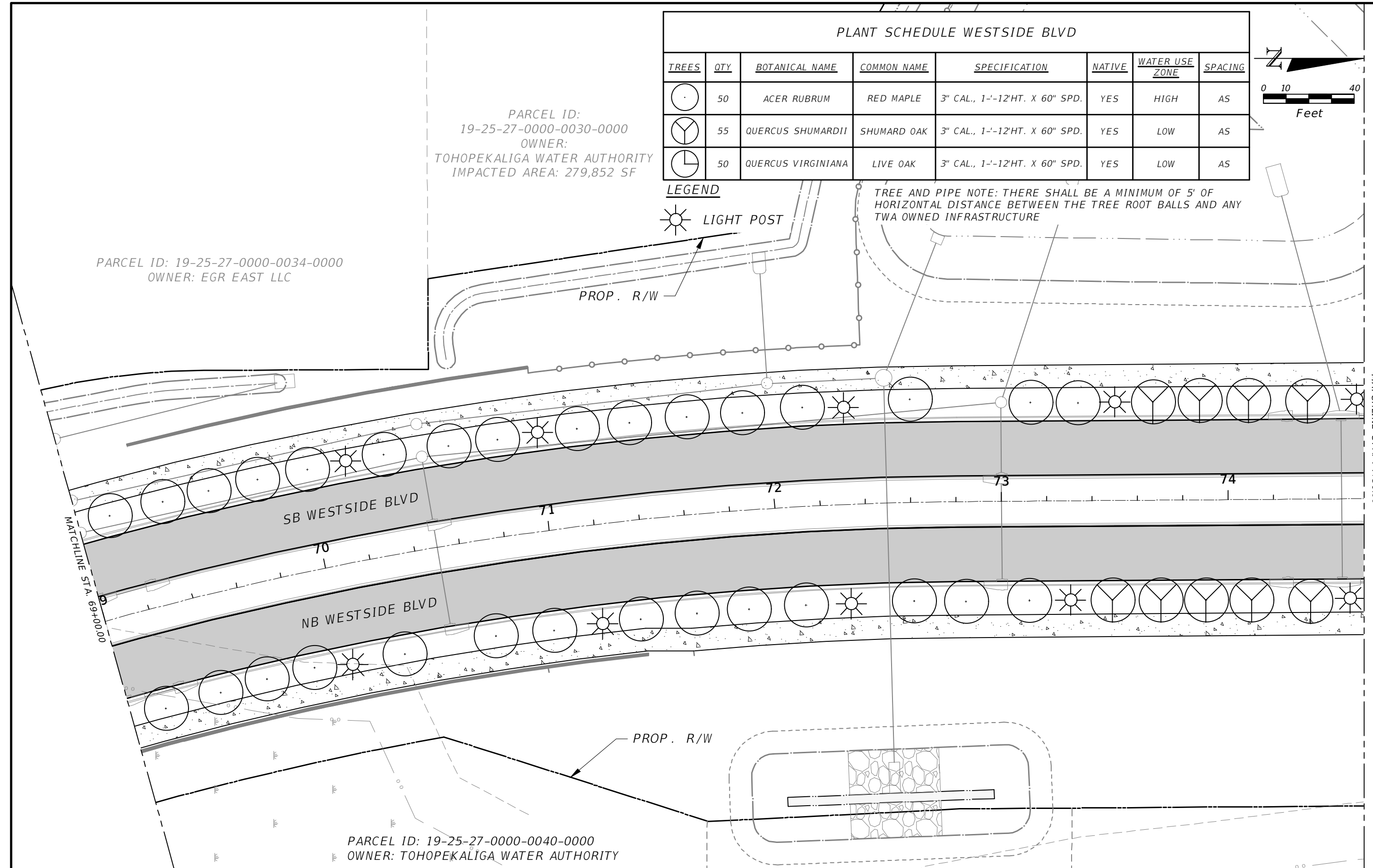
PARCEL ID:
19-25-27-0000-0030-0000
OWNER:
TOHOPEKALIGA WATER AUTHORITY
IMPACTED AREA: 279,852 SF

PARCEL ID: 19-25-27-0000-0034-0000
OWNER: EGR EAST LLC

LEGEND



TREE AND PIPE NOTE: THERE SHALL BE A MINIMUM OF 5' OF HORIZONTAL DISTANCE BETWEEN THE TREE ROOT BALLS AND ANY TWA OWNED INFRASTRUCTURE



PARCEL ID: 19-25-27-0000-0040-0000
OWNER: TOHOPEKALIGA WATER AUTHORITY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150






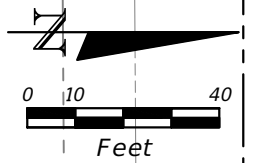
LANDSCAPE PLAN

SHEET NO.
74

PARCEL ID: 19-25-27-0000-0030-0000
 OWNER: TOHOPEKALIGA WATER AUTHORITY

PLANT SCHEDULE WESTSIDE BLVD

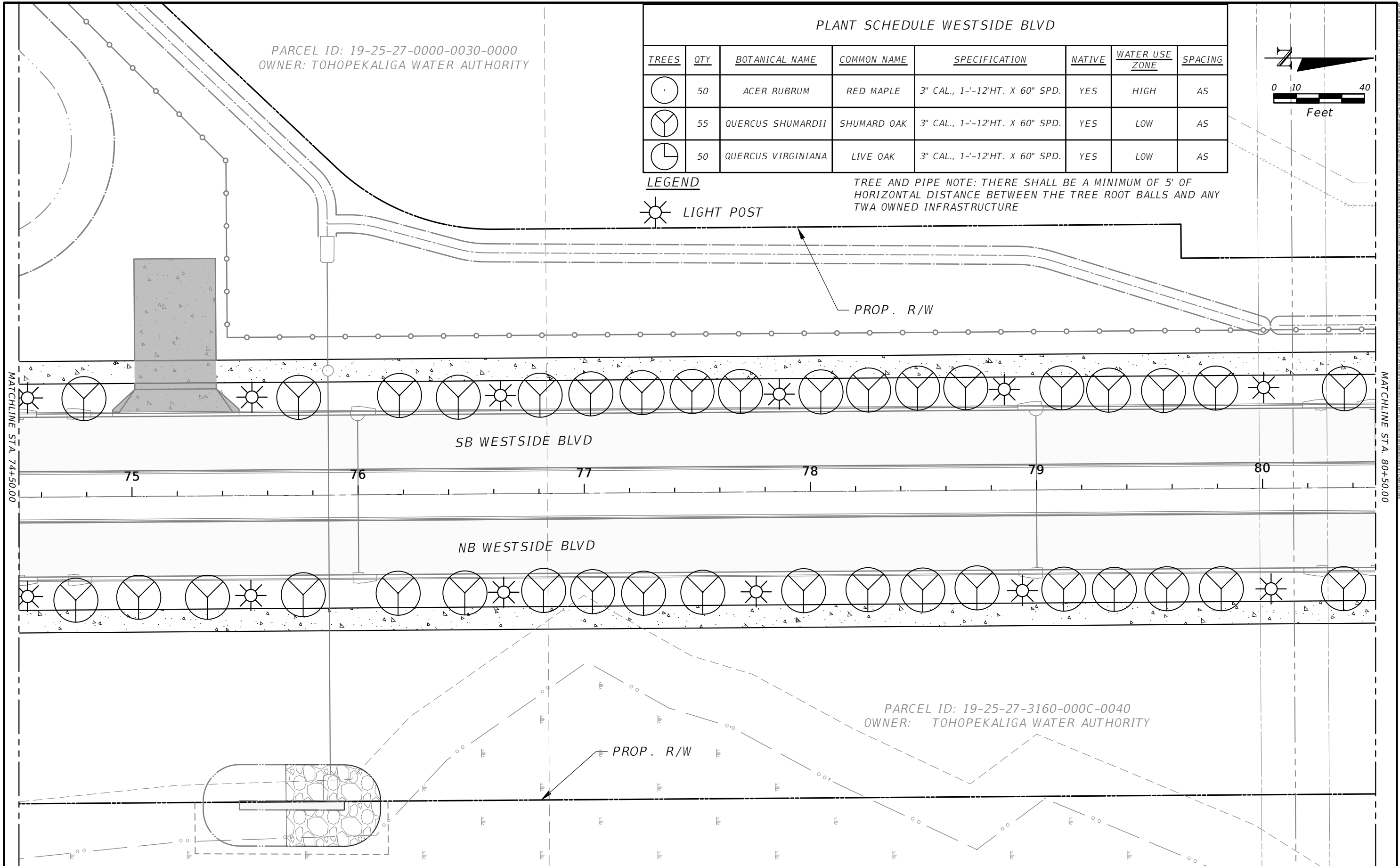
TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING
	50	ACER RUBRUM	RED MAPLE	3" CAL., 1'-12'HT. X 60" SPD.	YES	HIGH	AS
	55	QUERCUS SHUMARDII	SHUMARD OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS
	50	QUERCUS VIRGINIANA	LIVE OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS



LEGEND



TREE AND PIPE NOTE: THERE SHALL BE A MINIMUM OF 5' OF HORIZONTAL DISTANCE BETWEEN THE TREE ROOT BALLS AND ANY TWA OWNED INFRASTRUCTURE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION




DAVID A. REID, P.E.
 P.E. LICENSE NUMBER 38794
 HAMILTON ENGINEERING & SURVEYING, LLC
 431 E. HORATIO AVE., SUITE 260
 ORLANDO, FL 32751
 (407) 629-8330 EXT 150

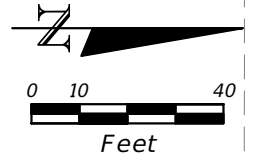



LANDSCAPE PLAN

SHEET NO.
75

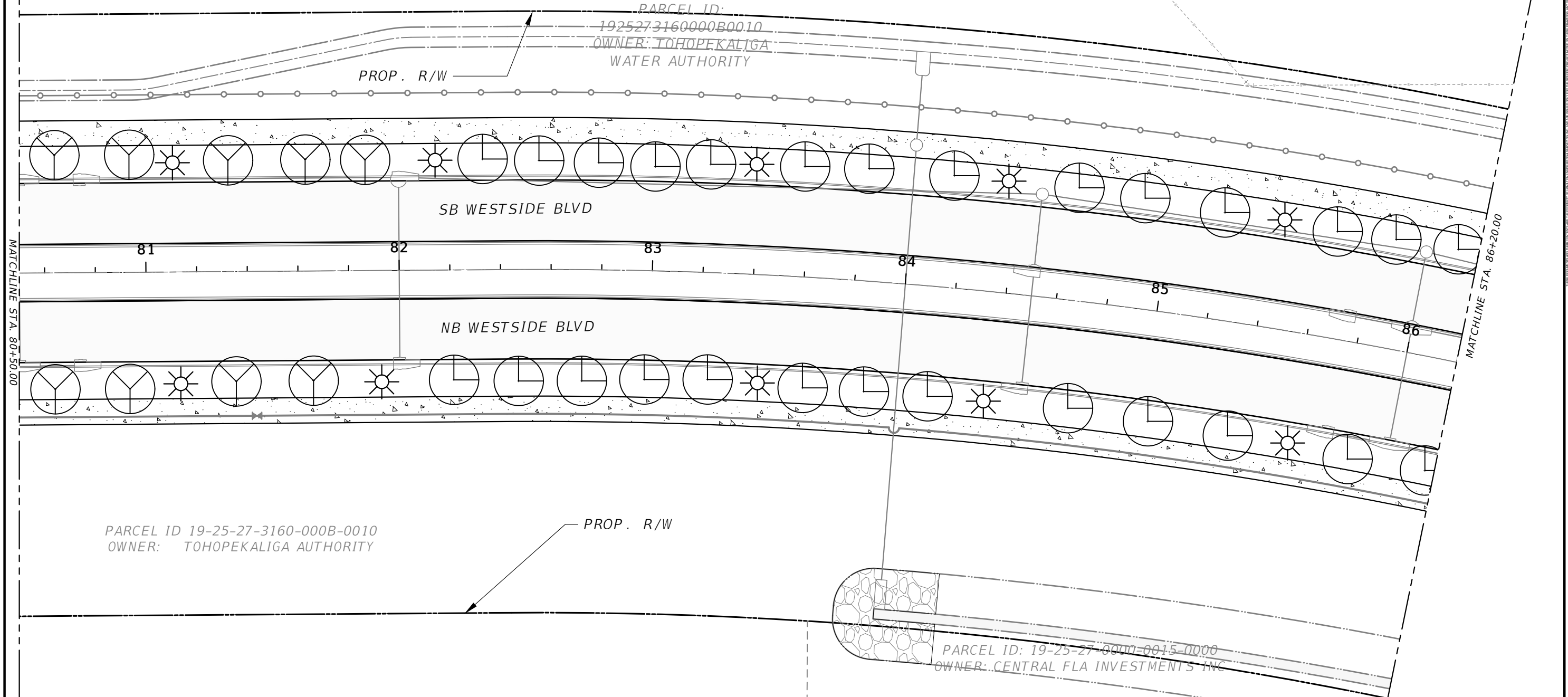
PARCEL ID:
19-25-27-3214-TRAC-00A0
OWNER:
SCHOOL BOARD OF OSCEOLA COUNTY

PLANT SCHEDULE WESTSIDE BLVD							
TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING
	50	ACER RUBRUM	RED MAPLE	3" CAL., 1'-12'HT. X 60" SPD.	YES	HIGH	AS
	55	QUERCUS SHUMARDII	SHUMARD OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS
	50	QUERCUS VIRGINIANA	LIVE OAK	3" CAL., 1'-12'HT. X 60" SPD.	YES	LOW	AS




LEGEND
 LIGHT POST

TREE AND PIPE NOTE: THERE SHALL BE A MINIMUM OF 5' OF HORIZONTAL DISTANCE BETWEEN THE TREE ROOT BALLS AND ANY TWA OWNED INFRASTRUCTURE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID A. REID, P.E.
P.E. LICENSE NUMBER 38794
HAMILTON ENGINEERING & SURVEYING, LLC
431 E. HORATIO AVE., SUITE 260
ORLANDO, FL 32751
(407) 629-8330 EXT 150






OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

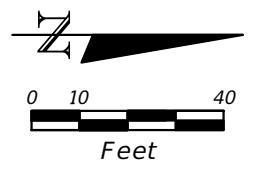
LANDSCAPE PLAN

SHEET NO.
76

PARCEL ID 19-25-27-3160-000B-0020
 OWNER: TOHOPEKALIGA AUTHORITY

PLANT SCHEDULE WESTSIDE BLVD

TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING
	50	ACER RUBRUM	RED MAPLE	3" CAL., 1'-12" HT. X 60" SPD.	YES	HIGH	AS
	55	QUERCUS SHUMARDII	SHUMARD OAK	3" CAL., 1'-12" HT. X 60" SPD.	YES	LOW	AS
	50	QUERCUS VIRGINIANA	LIVE OAK	3" CAL., 1'-12" HT. X 60" SPD.	YES	LOW	AS

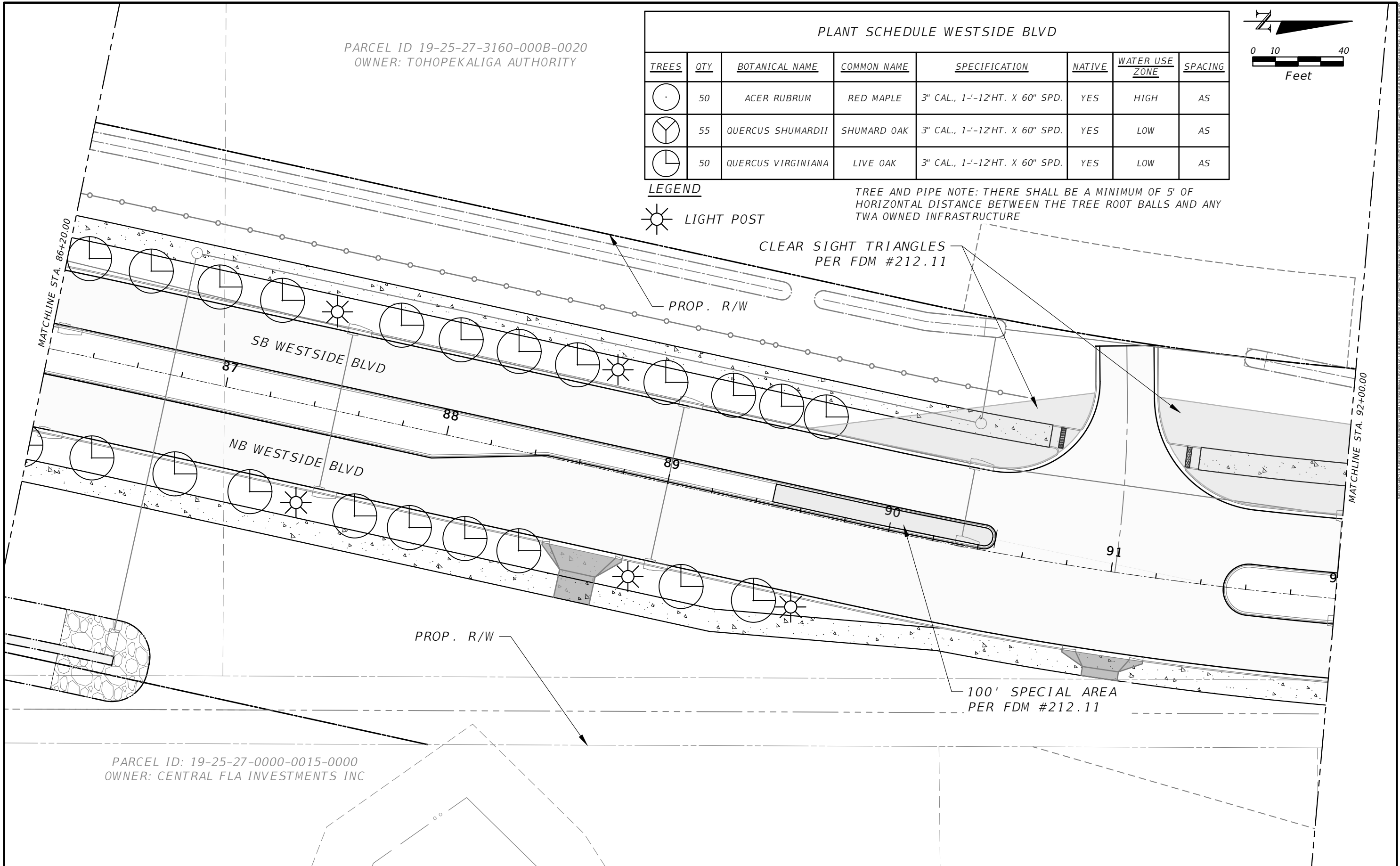


LEGEND



TREE AND PIPE NOTE: THERE SHALL BE A MINIMUM OF 5' OF HORIZONTAL DISTANCE BETWEEN THE TREE ROOT BALLS AND ANY TWA OWNED INFRASTRUCTURE

CLEAR SIGHT TRIANGLES PER FDM #212.11



PARCEL ID: 19-25-27-0000-0015-0000
 OWNER: CENTRAL FLA INVESTMENTS INC

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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
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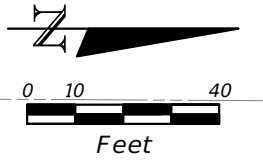
SHEET NO.
 77

PARCEL ID 19-25-27-3160-000B-0020
OWNER: TOHOPEKALIGA AUTHORITY

PARCEL ID 19-25-27-3160-000B-0030
OWNER: MATTAMY ORLANDO LLC

PLANT SCHEDULE WESTSIDE BLVD

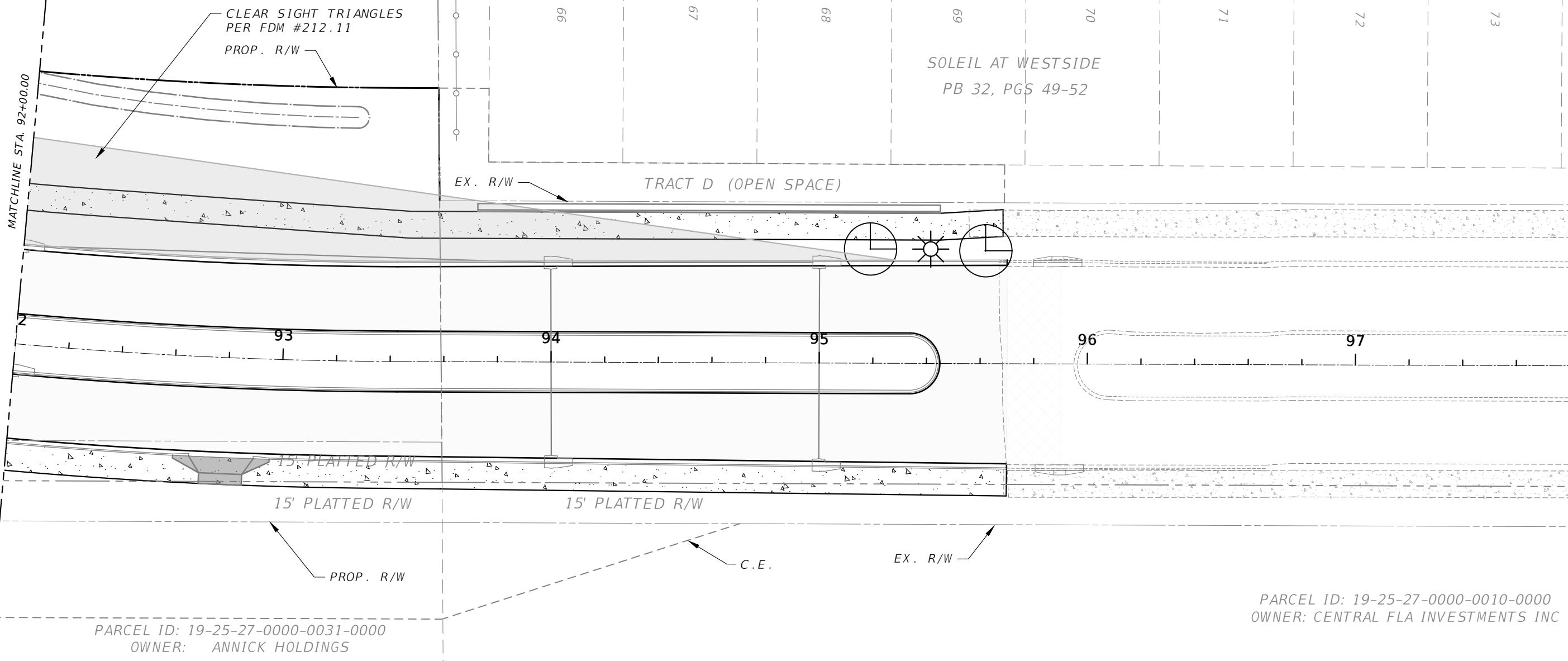
TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING
	50	ACER RUBRUM	RED MAPLE	3" CAL., 1'-12" HT. X 60" SPD.	YES	HIGH	AS
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LEGEND



TREE AND PIPE NOTE: THERE SHALL BE A MINIMUM OF 5' OF HORIZONTAL DISTANCE BETWEEN THE TREE ROOT BALLS AND ANY TWA OWNED INFRASTRUCTURE



PARCEL ID: 19-25-27-0000-0031-0000
OWNER: ANNICK HOLDINGS

PARCEL ID: 19-25-27-0000-0010-0000
OWNER: CENTRAL FLA INVESTMENTS INC

REVISIONS			
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LANDSCAPE PLAN

SHEET NO.
78

GENERAL REQUIREMENTS

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND ALL WORK AS CALLED FOR ON THE LANDSCAPE PLANS. THE LIST OF PLANT QUANTITIES ACCOMPANYING THE PLANS SHALL BE USED AS GUIDE ONLY. IF A DISCREPANCY OCCURS BETWEEN THE PLANS AND THE PLANT LIST, THE PLANS SHALL CONTROL.

THE LANDSCAPE CONTRACTOR SHALL WARRANTY ALL TREES FOR A PERIOD OF ONE (1) YEAR AND SHRUBS AND GROUND COVERS FOR A PERIOD OF SIX (6) MONTHS FROM THE TIME OF FINAL ACCEPTANCE BY OWNER AND LANDSCAPE ARCHITECT.

THE LANDSCAPE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE STABILITY AND PLUMB CONDITION OF ALL TREES AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTABILITY OF ANY PLANT MATERIAL. STAKING OF TREES AND PALMS, IF REQUIRED, SHALL BE DONE UTILIZING A METHOD AGREED UPON BY THE LANDSCAPE ARCHITECT.

THE LANDSCAPE CONTRACTOR SHALL RESEARCH PLANS AND CONTACT APPROPRIATE AGENCIES TO DETERMINE THE LOCATION OF ANY UTILITIES AND OBSTRUCTIONS PRIOR TO COMMENCING WORK. ANY UTILITIES OR UNANTICIPATED OBSTRUCTIONS SHALL BE REPORTED TO LANDSCAPE ARCHITECT OR OWNER IMMEDIATELY.

ALL PLANT MATERIAL AND SODDED AREAS SHALL HAVE AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE.

POSITIVE DRAINAGE SHALL BE MAINTAINED AWAY FROM ALL STRUCTURES ON THE SITE.

PLANT SPECIFICATIONS

ALL NURSERY STOCK PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS PARTS I & II, LATEST EDITION AS PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES- DIVISION OF PLANT INDUSTRY. ALL PLANT MATERIAL SHALL BE PLANTED, FERTILIZED AND MULCHED AS PER THE PLANT DETAILS AND PLANTING SPECIFICATIONS NOTED ON THE PLANS.

ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL ROOTED PLANTS, AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE DELIVERED TO THE SITE. THE PLANTS SHALL HAVE TOPS WHICH ARE GOOD QUALITY AND IN A HEALTHY GROWING CONDITION. ESTABLISHED CONTAINER GROWN PLANT MATERIAL SHALL BE GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED ENABLING THE ROOT MASS TO RETAIN ITS SHAPE WHEN REMOVED THE CONTAINER. PLANTS WHICH HAVE BECOME ROOT BOUND IN THE CONTAINER ARE UNACCEPTABLE.

ALL PLANT MATERIAL THAT IS NOT CONTAINER GROWN SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, AND FREE OF DISEASE AND INSECT EGGS AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS MAY BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

FERTILIZER

TWO FERTILIZERS SHALL BE USED ON ALL TYPES OF PLANTINGS, EXCEPT PALMS. GRANULAR FERTILIZER SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED BAGS BEARING THE MANUFACTURER'S STATEMENT OF ANALYSIS. GRANULAR FERTILIZER SHALL BE A CONTROLLED RELEASE VARIETY MEETING THE FOLLOWING REQUIREMENTS: SIXTEEN PERCENT (16%) NITROGEN, FOUR PERCENT (4%) PHOSPHORUS, EIGHT PERCENT (8%) POTASSIUM, PLUS IRON. TABLET FERTILIZER ("AGRIFORM" OR APPROVED EQUAL) IN 21 GRAM SIZE SHALL MEET THE FOLLOWING REQUIREMENTS: TWENTY PERCENT (20%) NITROGEN, TEN PERCENT (10%) PHOSPHORUS, FIVE PERCENT (5%) POTASSIUM.

APPLICATION RATES:

PLANT SIZE	16-4-8	"AGRIFORM" TABLET (21 GRAMS)
1 GALLON	1/4 LB.	1 TABLET
3 GALLON	1/3 LB.	2 TABLETS
7-15 GALLON	1/2 LB.	4 TABLETS
1" - 6" CALIPER	2 LBS. PER 1" CALIPER	2 TABLETS PER 1" CALIPER
6" + CALIPER	3 LBS. PER 1" CALIPER	2 TABLETS PER 1" CALIPER

SODDED AREAS SHALL RECEIVE AN APPLICATION OF THE GRANULAR FERTILIZER (16-4-8) AT A RATE OF 1/2 LB. OF NITROGEN PER 1,000 SQUARE FEET OF SOD AREA.

"PALM SPECIAL" FERTILIZER SHALL BE APPLIED TO ALL PALMS AT INSTALLATION AT A RATE OF 1 1/2 LBS. PER 100 SQUARE FEET OF CANOPY AREA. PALM FERTILIZER SHALL BE A CONTROLLED RELEASE VARIETY CONTAINING CHELATED MICRO NUTRIENTS AND A RATIO OF N-P-K-MG OF 2:1:3:1.

SOIL

PLANTING SOIL FOR USE IN PREPARING THE BACKFILL MATERIAL FOR PLANTING PITS SHALL BE ADDED A RATE OF FIFTY PERCENT (50%) PLANTING SOIL TO FIFTY PERCENT (50%) EXISTING SOIL. THIS SOIL MIX SHALL BE USED IN ALL PLANT PITS EXCEPT SABAL PALMS WHICH SHALL BE BACKFILLED WITH CLEAN SAND. PLANTING SOIL SHALL BE A FERTILE, FRIABLE NATURAL TOPSOIL OF LOAMY CHARACTER. IT SHALL CONTAIN FORTY TO FIFTY (50) PERCENT DECOMPOSED ORGANIC MATTER AND BE FREE OF HEAVY CLAY, STONES LARGER THAN 1" IN DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTEGRATED DEBRIS, INSECTS OR ANY OTHER UNDESIRABLE MATERIAL, PLANTS OR SEEDS THAT WOULD BE TOXIC OR HARMFUL TO PLANT GROWTH.

MULCH

ALL PLANT BEDS AND TREE WATERING BASINS SHALL BE TOP DRESSED WITH THREE INCHES (3") OF PINE BARK MINI-NUGGETS MULCH.

SOD

REFER TO LANDSCAPE PLAN FOR LIMITS OF SOD.

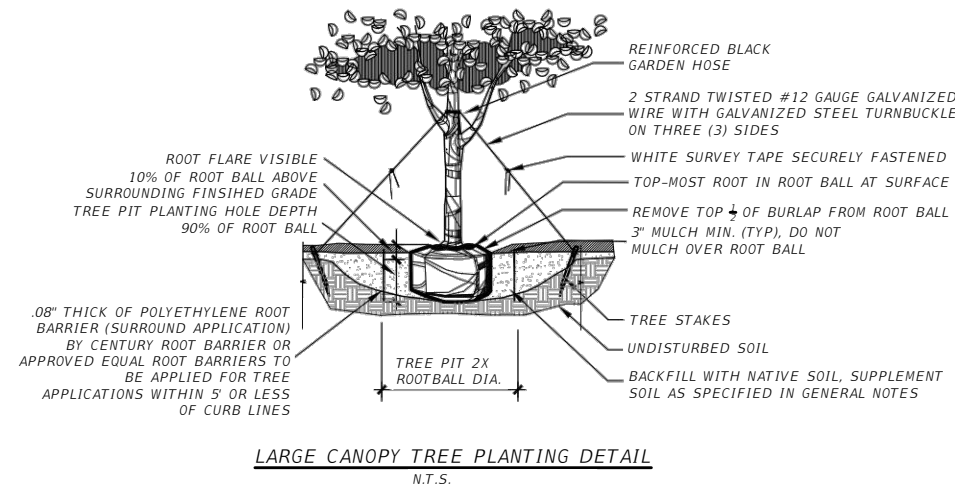
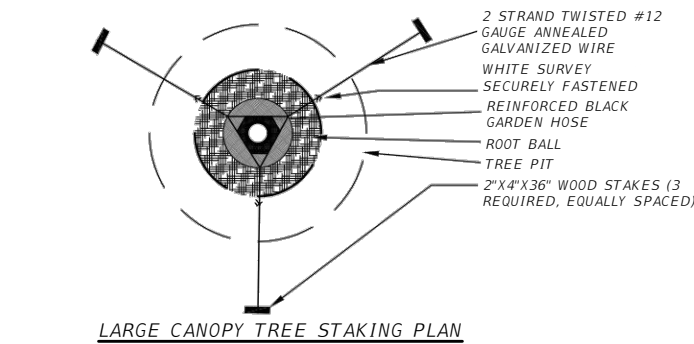
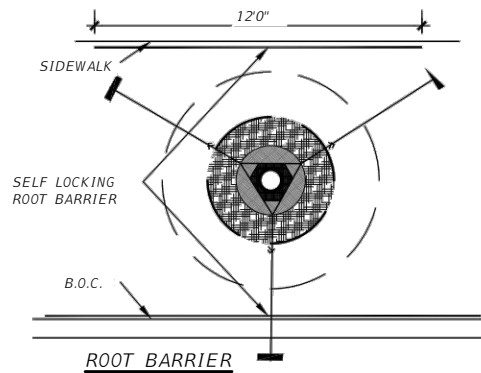
ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING MATERIAL STAGING, EQUIPMENT STORAGE, TEMPORARY FACILITIES, SITE ACCESS, CONSTRUCTION STAFF PARKING, ETC.) BEYOND THE MINIMUM LIMITS OF SOD AS SHOWN ON THE LANDSCAPE PLAN SHALL BE SODDED AS NEEDED.

ALL LAWN AREAS TO RECEIVE SOD SHALL BE DISKED FOUR (4) TO SIX (6) INCHES AND GRADED TO ESTABLISH A LEVEL FINISHED GRADE ENSURING POSITIVE DRAINAGE FROM ALL STRUCTURES. ALL DEBRIS SHALL BE REMOVED FROM THE SITE.

SOD SHALL BE FREE OF WEEDS AND PESTS. IT SHALL BE LAID EVENLY WITH TIGHT FITTING JOINTS AND ROLLED. THE SOD SHALL CONTAIN MOIST SOIL WHICH DOES NOT FALL APART OR TEAR WHEN LIFTED.

SEE PLANT LIST FOR SPECIFIC SOD SPECIES AND LOCATIONS.

SEE 'FERTILIZER' FOR REQUIREMENTS OF ALL SODDED AREAS.



DUKE ENERGY

Outdoor Lighting
Roadway LED

Light source: LED (white)
Wattage: 40 | 50 | 70 | 108 | 150 | 216 | 284 watts
Light pattern: IESNA Type III (oval)
IESNA cutoff classification: Full cutoff
Color temperature: 4,000K
Warm-up and restrike time: Instant on (no warm-up or restrike time)

light distribution pattern

Poles available:

Name	Mounting height	Color
Static cast concrete	18'	Gray
Wood	18'	Standard

Features	Benefits
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
Backed by over 40 years of experience	A name you can trust today ... and tomorrow

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DUKE ENERGY

Outdoor Lighting
Roadway LED

The energy-efficient Roadway LED is a green solution and great fit for streets, roads, long narrow areas and parking lots. The Roadway LED delivers light where it is needed, while increasing visibility and reducing spill light to adjoining properties. Selected to be an alternative to the 100- to 250-watt high pressure sodium light fixture, this fixture provides a white light source that will enhance colors, adding to visual acuity and improving area uniformity.

LED (light-emitting diode)	40 50 70 108 150 216 284 watts
Mounting height	18'
Colors	Black Gray
Poles	Static cast concrete Wood
Applications	Neighborhoods Roadways Shopping centers

For additional information, visit us at duke-energy.com/OutdoorLighting or call us toll-free at 866.769.6417.

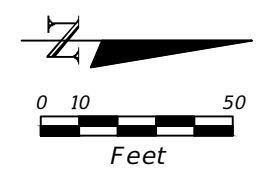
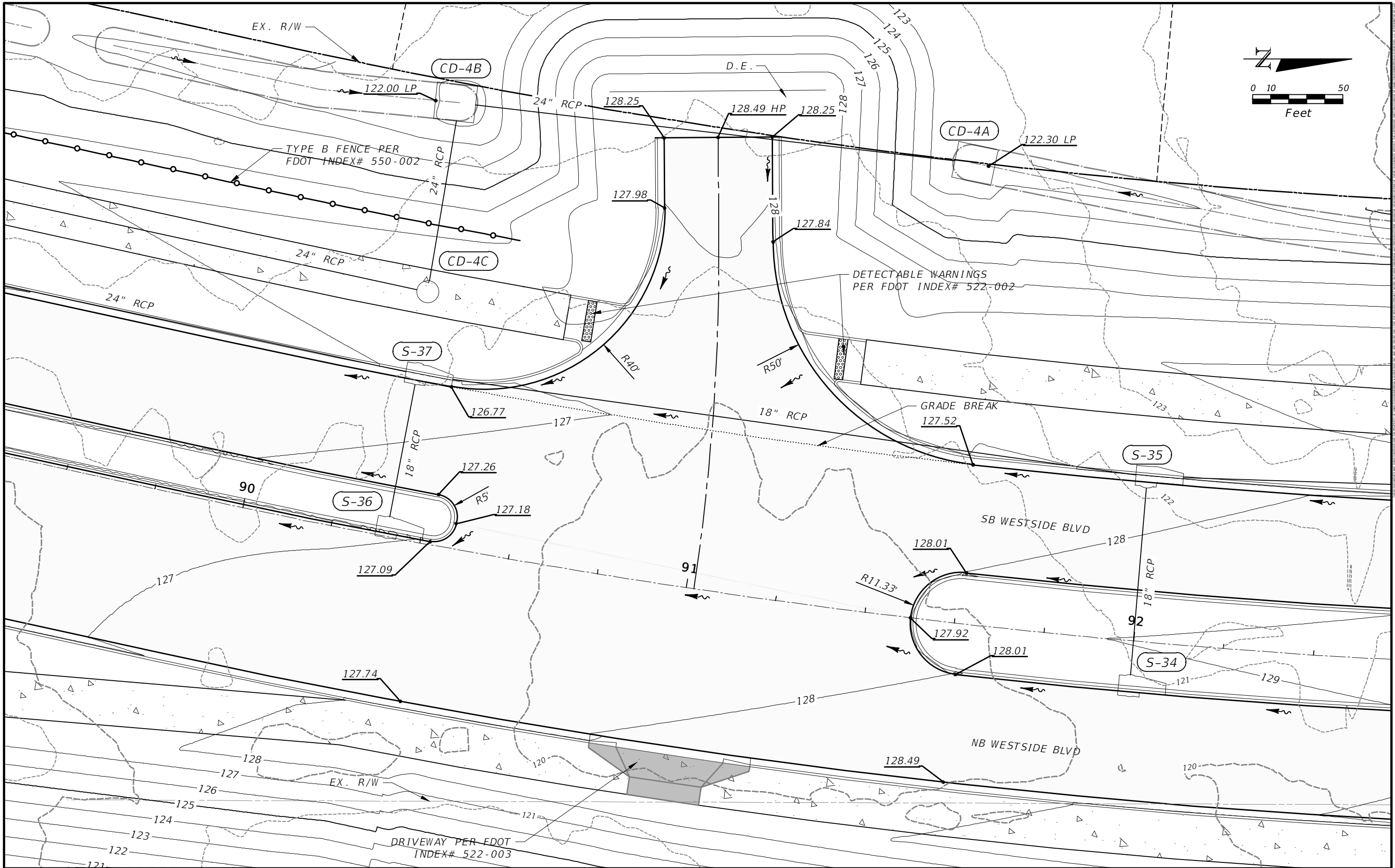
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OSCEOLA COUNTY
TRANSPORTATION AND TRANSIT
DEPARTMENT

**LANDSCAPE AND LIGHTING
DETAILS**

SHEET
NO.
79



REVISIONS	
DATE	DESCRIPTION

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OSCEOLA COUNTY
 TRANSPORTATION AND TRANSIT
 DEPARTMENT

INTERSECTION LAYOUT

SHEET NO.
80