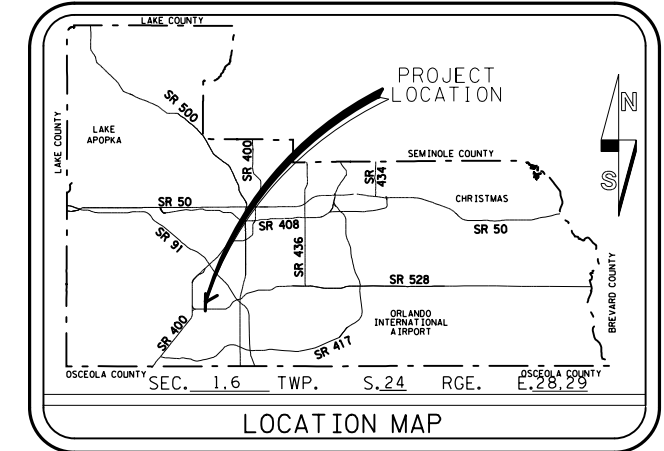


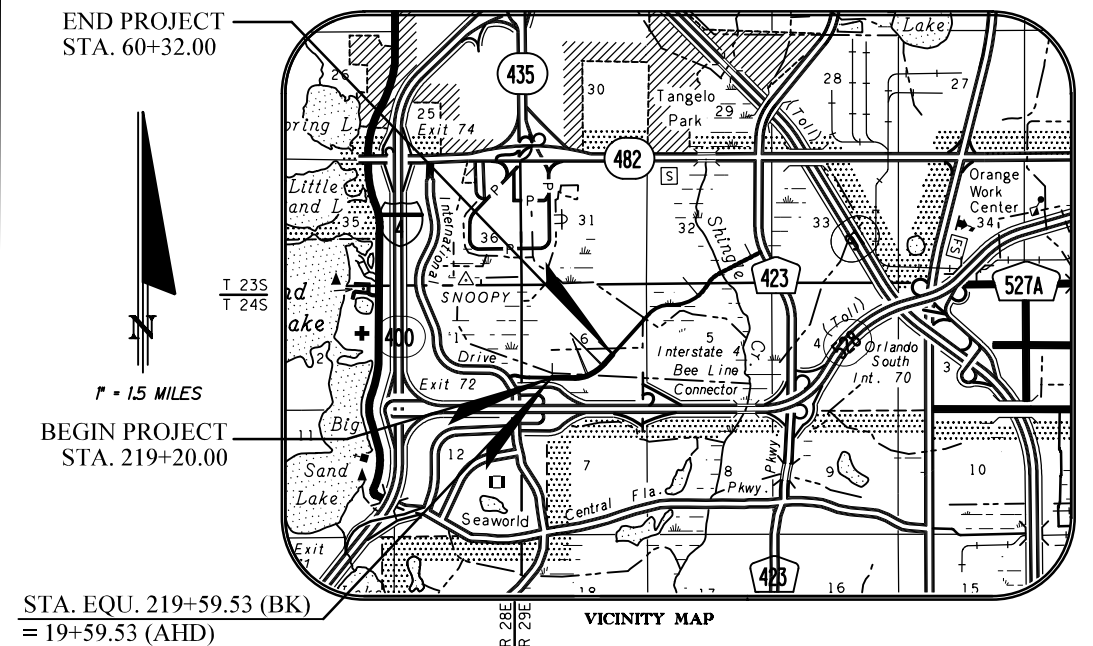


CONSTRUCTION PLANS FOR CANADIAN COURT /JOHN YOUNG PARKWAY CONNECTOR ROADWAY FROM STA. 219+20.00 TO STA. 60+32.00 ORANGE COUNTY PROJECT NO. 5089 - SECTION 1B/2A

DISTRICT NO: 6
ORANGE COUNTY, FLORIDA



UTILITIES ENCOUNTERED	
AT&T Corp. P.E.A. Engineering (407) 351-8180	
AT&T Southeast, f/k/a BellSouth (407) 351-8180	
Bright House Networks (407) 532-8520	
Duke Energy Distribution f/k/a Progress Energy Distribution (407) 905-3321	
Verizon Business (407) 841-4226	
Orange County Utilities (407) 254-9747	
LEVEL-3 Communications (407) 462-0609	
Orlando Utilities Commission Water (407) 434-2568	
Orlando Utilities Commission Electric (407) 434-4173	
Teco Peoples Gas (407) 420-6607	
ORANGE COUNTY TRAFFIC (407) 836-7803	
Duke Energy Transmission (863) 678-4573	



END PROJECT STA. 60+32.00
BEGIN PROJECT STA. 219+20.00
STA. EQU. 219+59.53 (BK)
= 19+59.53 (AHD)

TYPE OF CONSTRUCTION: NEW CONSTRUCTION / URBAN SECTION
PROJECT LENGTH: 4112.00 LF / 0.779 MILES
DESIGN SPEED: 45 MPH

SOURCE OF BENCH MARK DATUM
ORANGE COUNTY BENCHMARKS HELD FOR BENCH RUN TO SET CONTROL ALONG JYP CONNECTOR ROAD FROM INTERNATIONAL DRIVE TO JOHN YOUNG PARKWAY ELEVATIONS SHOWN ARE FROM NGVD29 DATUM DESCRIPTIONS ARE PER ORANGE COUNTY FIELD NOTES

L-665-006, NGVD29: 100.023'
SET 2" ORANGE COUNTY CONTROL BRASS DISK STAMPED "BM L-665-006" IN THE CENTERLINE OF 0.9 FT. X 14.6 FT. CONCRETE HEADWALL WITH 28" R.C.P. CROSS OVER PIPE; 29 FT. +- SOUTH OF THE WEST BOUND EDGE OF PAVEMENT OF STATE ROAD 528. 66 FT. +- NORTH OF THE EAST BOUND EDGE OF PAVEMENT OF STATE ROAD 538.

L-665-008, NGVD29: 86.329'
SET 2" ORANGE COUNTY CONTROL BRASS DISK STAMPED "BM L-665-008" 26 FT. +- SOUTH OF THE SOUTH EDGE OF PAVEMENT OF THE EAST BOUND LANE OF STATE ROAD 528; 7 FT. +- SOUTH OF THE SPEED LIMIT SIGN; 177 FT. +- WEST SOUTHWEST OF A CALL BOX NUMBER 75505; ON THE EAST END OF 0.9 FT. X 6.0 FT. HEADWALL WITH 12" CROSS OVER PIPE.

L-807-011, NGVD29: 89.249'
2 1/2" CONTROL DISK (STAMPED L-807-011) IN NORTH END OF DROP INLET ON THE NORTHWEST CORNER OF COMMODITY CIRCLE AND JOHN YOUNG PARKWAY, PK NAIL AND ORANGE COUNTY DISC IN NORTH EDGE OF COMMODITY CIRCLE, NAIL AND ORANGE COUNTY DISC IN NORTH FACE 6" OAK TREE, PK NAIL AND ORANGE COUNTY DISC IN WEST EDGE JOHN YOUNG PARKWAY. (PREVIOUSLY PUBLISHED ORANGE COUNTY ELEVATION WAS 27.203)

L-807-012, NGVD29: 92.510'
2 1/2" CONTROL DISK (STAMPED L-807-012) IN CONCRETE ISLAND AT ENTRANCE TO AT&T (9333 JOHN YOUNG PARKWAY), "X" CUT IN WEST END OF CONCRETE ISLAND, "X" CUT IN FOOT PAD FOR LIGHT POST, PK NAIL AND ORANGE COUNTY DISC IN SOUTH EDGE OF ENTRANCE TO AT&T ACROSS FROM GUARD HOME. (PREVIOUSLY PUBLISHED ORANGE COUNTY ELEVATION WAS 28.197)
0.2 MILES SOUTH OF ENTRANCE TO "ATT" 9701 S. JOHN YOUNG PARKWAY OR 0.40 MILES NORTH OF OVERPASS OF 528 (BEE LINE) OVER JOHN YOUNG PARKWAY.

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4-5	DRAINAGE MAPS
6	EXISTING DRAINAGE STRUCTURES
7-8, 8A	TYPICAL SECTIONS
9	SUMMARY OF QUANTITIES
10-11	SUMMARY OF DRAINAGE STRUCTURES
12-14	SURVEY CONTROL SHEETS
15-21	PLAN AND PROFILE SHEETS
22	SUPERELEVATION TRANSITION DETAILS
23	DRAINAGE STRUCTURE TABLES
24-25	DRAINAGE STRUCTURE CROSS SECTIONS
26	SOIL SURVEY SHEET
27-46	CROSS SECTIONS
47-48	STORMWATER POLLUTION PREVENTION PLAN
49-50	EROSION CONTROL PLAN
51-57	UTILITY ADJUSTMENT SHEETS
L-1 - L-9	LIGHTING PLANS
S-1 - S-12	SIGNING AND PAVEMENT MARKING PLANS
T-1 - T-8	SIGNAL INTERCONNECT PLANS
STC-1 - STC-18	CULVERT DETAILS
OU-1 - OU-9	UTILITY PLANS

FDOT DESIGN STANDARDS, JANUARY 2010

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

BID SET
APRIL 2016

DESIGN STANDARDS

- FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, DATED JAN, 2010, UNLESS OTHERWISE NOTED.
- FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS," DATED MAY, 2007.
- FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2010 AS AMENDED BY CONTRACT DOCUMENTS.

CERTIFICATION TO PLANS

I HEREBY CERTIFY that the design for this project and the attached construction plans comply with the requirements of Section 336.045 of the Florida Statutes and are in substantial conformance with the standards contained in the 2007 edition of the "Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways" in effect on this date as adopted by the Florida Department of Transportation pursuant to Subsection 336.045(1) of the Florida Statutes.

TERESA JACOBS	ORANGE COUNTY MAYOR
BOARD OF COUNTY COMMISSIONERS	
S. SCOTT BOYD	DISTRICT 1
BRYAN NELSON	DISTRICT 2
PETE CLARKE	DISTRICT 3
JENNIFER THOMPSON	DISTRICT 4
TED EDWARDS	DISTRICT 5
VICTORIA SIPLIN	DISTRICT 6

MARK V. MASSARO, P.E., PUBLIC WORKS DIRECTOR

DATE _____ ENGINEER: SUSAN A. GRATCH REG. NO. 40134

PLANS PREPARED BY:
ATKINS
482 SOUTH KELLER ROAD
ORLANDO, FLORIDA 32810-6101
(407)-647-7275
FAX (407)-647-7009
LICENSE NO. 24

REVISIONS	DATE	BY

DESIGNED BY:	SAG	DATE:	09/01/10
DRAWN BY:	JDP	DATE:	09/01/10
CHECKED BY:	CAS	DATE:	09/09/10
APPROVED BY:	SAG	DATE:	09/13/10
PROJECT NO: 5089 - SEC 1B/2A			

SHEET 1

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SUMMARY OF PAY ITEMS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
ROADWAY PAY ITEMS			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-14	PREVENTION CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	1
110-1-1	CLEARING AND GRUBBING	LS	1
120-4	REMOVAL & REPLACEMENT OF UNSUITABLE SOIL	CY	1500
120-9	EXCAVATION, EMBANKMENT, & GRADING	LS	1
160-4	STABILIZATION TYPE B (12" DEPTH) (MIN LBR 40)	SY	21562
270-12	SOIL CEMENT BASE (12" DEPTH) (PRIMED) (300 PSI)	SY	17447
327-70-6	MILLING EXISTING ASPHALT PAVEMENT (1 1/2" AVG)	SY	1481
334-2-20	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C) (SP 12.5) (2" DEPTH)	SY	17447
337-7-6	SUPERPAVE ASPH. CONC. FRICTION COURSE (FC-12.5) (1.5" DEPTH)	SY	28867
339-1	MISCELLANEOUS ASPHALT PAVEMENT (2" THICK MINIMUM)	SY	239.16
400-1-15	CONCRETE CLASS 1 (MISC.)	CY	50
400-1	CONCRETE BOX CULVERT CD-1 (8'x5')	LS	1
400-2	CONCRETE BOX CULVERT CD-2 (TRIPLE 10'x6')	LS	1
400-3	CONCRETE BOX CULVERT CD-3 (TRIPLE 6'x6')	LS	1
425-1-311	INLETS (CURB) (TYPE P-1) (<10')	EA	36
425-1-312	INLETS (CURB) (TYPE P-1) (>10')	EA	1
425-1-321	INLETS (CURB) (TYPE P-2) (<10')	EA	8
425-2-101	MANHOLES SPECIAL (P-8) (<10')	EA	1
430-175-125	CONC. PIPE CULVERT RCP (CLASS III) (ROUND) (18")	LF	2467
430-175-129	CONC. PIPE CULVERT RCP (CLASS III) (ROUND) (24")	LF	737
430-982-125	MITERED END SECTION (CD) (18")	EA	1
430-982-129	MITERED END SECTION (CD) (24")	EA	1
520-1-7	CONCRETE CURB & GUTTER (TYPE E)	LF	5748
520-1-10	CONCRETE CURB & GUTTER (TYPE F)	LF	5493
520-2-2	CONCRETE CURB (TYPE B)	LF	40
522-1	SIDEWALK CONC. (4" THICK)	SY	3800
522-2	SIDEWALK CONC. (6" THICK)	SY	134
530-3-4	RIPRAP-RUBBLE (F&I) (DITCH LINING)	CY	1
536-1-1	GUARDRAIL (ROADWAY, W-BEAM)	LF	668
536-6	PIPE RAIL FOR GUARDRAIL	LF	429
536-85-24	GUARDRAIL END ANCHORAGE ASSEMBLY (PARALLEL)	EA	5
536-85-25	GUARDRAIL END ASSEMBLY (TYPE II)	EA	5
570-1	PREFORMANCE TURF	SY	13,990
SIGNALIZATION PAY ITEMS			
630-1-12	CONDUIT (UNDERGROUND) (F&I)	LF	6255
635-1-15	PULL & JUNCTION BOXES (FIBER OPTICS) (F&I)	EA	7
SIGNING AND PAVEMENT MARKING PAY ITEMS			
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I, SINGLE DIRECTION	AS	4
700-20-11	SINGLE POST SIGN (LESS THAN 12 SF) (F&I)	AS	7
700-20-12	SINGLE POST SIGN (12-25 SF) (F&I)	AS	2
700-20-60	SINGLE POST SIGN, REMOVE	AS	12
700-48-38	SIGN PANELS (OVERLAY) (15 SF OR LESS)	EA	1
700-48-58	SIGN PANELS (REPLACE) (15 SF OR LESS)	EA	4
705-11-3	DELINEATOR, FLEXIBLE HIGH VISIBILITY, MEDIAN	EA	2
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	400
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW ISLAND NOSE	SF	72
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	12832
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	539
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	1136
711-11-131	THERMOPLASTIC, STANDARD, WHITE, 10'-30' SKIP, 6"	GM	1,580
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2'-4' SKIP AND 6'-10' SKIP, 6"	LF	140
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	36
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	9073
711-11-222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 8"	LF	46
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	18
711-17	REMOVE EXISTING RPM'S AND THERMOPLASTIC PAVEMENT MARKINGS	LS	1
STREET LIGHTING PAY ITEMS			
715-2-115	CONDUIT (F&I - UNDERGROUND) (PVC SCHEDULE 40) (2")	LF	5640
715-14-11	STREET LIGHT JUNCTION BOX (F&I)	EA	32
715-14-16	SECONDARY JUNCTION BOX (F&I)	EA	4
800-7-77	INTERLOCKING CONCRETE BLOCK	SY	157
900-1	AS BUILT PLANS	LS	1
900-2	INDEMNIFICATION	LS	1
900-3	GROUND WATER TREATMENT & DISPOSAL	DAY	180

PAY ITEM NOTES:

- 102-1 INCLUDES THE COST FOR ALL ITEMS REQUIRED FOR MAINTENANCE OF TRAFFIC. ALSO INCLUDES REMOVAL OF EXISTING THERMOPLASTIC PAVEMENT MARKINGS BY HIGH PRESSURE WATER BLASTING IF NECESSARY.
- 104-14 INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION CONTROL INCLUDING, BUT NOT LIMITED TO, HAY BALES, TURBIDITY BARRIERS, SILT FENCES, ROCKBAGS, AND TEMPORARY GRASSING (OR SOD) SHOWN IN THE PLANS OR AS DIRECTED BY THE OWNERS PROJECT REPRESENTATIVE.
- 110-1-1 INCLUDES, BUT IS NOT LIMITED TO, THE COST OF REMOVAL AND DISPOSAL OF CONCRETE CURBS, DRIVEWAYS, STRUCTURES, BRICK WALLS, VARIOUS TYPES OF FENCES, CAPPING WELLS, REMOVAL AND DISPOSAL OF SEPTIC TANKS AND DRAIN FIELDS, UNDERGROUND STORAGE TANKS, PAVEMENT, BASE, EXISTING IRRIGATION ADJUSTMENTS, COST TO RELOCATE MAILBOXES, AND THE TRIMMING OF TREES AND SHRUBS AS REQUIRED TO CONSTRUCT THE PROJECT. ALSO INCLUDES THE COST OF REMOVAL OF TYPE 111 BARRICADES WITH MOUNTED ROAD CLOSED SIGNS.
- 120-4 THE CONTRACTOR SHALL PROVIDE ORANGE COUNTY HIGHWAY CONSTRUCTION WITH A SIGNED AND SEALED SURVEY, PREPARED BY A REGISTERED FLORIDA SURVEYOR, INCLUDING ELEVATIONS AND CROSS SECTIONS OF THE AREA WHERE UNSUITABLE SOILS ARE FOUND. THE ELEVATIONS SHALL BE PROVIDED EVERY 25 FEET AND SHALL BE REPRESENTATIVE OF THE CONDITIONS. THE PURPOSE OF THE SURVEY, WITH CROSS SECTIONS, IS TO VERIFY THE QUANTITY OF THE UNSUITABLE SOILS REMOVED.
- 120-9 INCLUDES THE COST OF ALL EARTHWORK OPERATIONS REQUIRED TO CONSTRUCT THE PROJECT.
- 334-24-20 & 337-7-6 INCLUDES THE COST OF BITUMINOUS PRIME COAT AND BITUMINOUS TACK COAT AND PREPARING/CLEARING EXISTING PAVEMENT, INCLUDING REMOVAL OF EXISTING PAVEMENT MARKINGS AND RPM'S THROUGH OVERLAY AREAS.
- 400-1 & 400-2 & 400-3 ALL BOX CULVERT JOINTS (TOP & SIDES) AND WINGWALL/BOX CULVERT JOINTS SHALL BE COVERED WITH FILTER FABRIC A MINIMUM OF 2 FEET IN WIDTH AND MEETING THE REQUIREMENTS OF INDEX 199, TYPE D-3 WITH AN A.O.S. (SIEVE NUMBER) OF 60 TO 100. ALL ITEMS INCLUDING, BUT NOT LIMITED TO, THE COST OF DEWATERING, SHORING, STEEL REINFORCING, HANDRAIL, OVEREXCAVATION OF CLAYEY SOIL, BACKFILL, COMPACTION AND FILTER FABRIC SHALL BE CONSIDERED INCIDENTAL TO SUBJECT PAY ITEMS. SEE SHEET STC-3 AND TPS FOR ADDITIONAL INFORMATION.
- 430-175-XXX ALL PIPE CULVERT SHALL BE STEEL REINFORCED CONCRETE PIPE.
- 522-1 INCLUDES REMOVAL OF EXISTING CURBS, CURBS AND GUTTER, SIDEWALK AND ALSO SAWCUTS TO CONSTRUCT NEW SIDEWALKS/CURBS FROM STA. 50+95 THROUGH STA. 51+14.
- 536-1-1 INCLUDES PAYMENT FOR SPECIAL POSTS AT INLET LOCATIONS. ALL GUARDRAIL SHALL CONFORM TO THE 2015 FDOT DESIGN STANDARDS.
- 711-17 INCLUDES REMOVAL OF THERMOPLASTIC PAVEMENT MARKINGS AND RPM'S PRIOR TO PLACEMENT OF NEW FRICTION COURSE. (SEE SHEET 21 FOR LIMITS).
- 120-4 & 400-1-15 & 900-3 ALL ARE CONTINGENCY ITEMS AND REQUIRE APPROVAL OF ORANGE COUNTY PRIOR TO USE.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:

SUSAN GRATCH
P.E. #40134

ATKINS

License
No. 24

482 South Keller Road
Orlando, FL 32810
(407) 647-7275
www.pbsj.com



CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY

PROJ. NO. 5089 - SEC. 1B/2A

SUMMARY OF PAY ITEMS

SHEET
NO.

3

FLOOD DATA

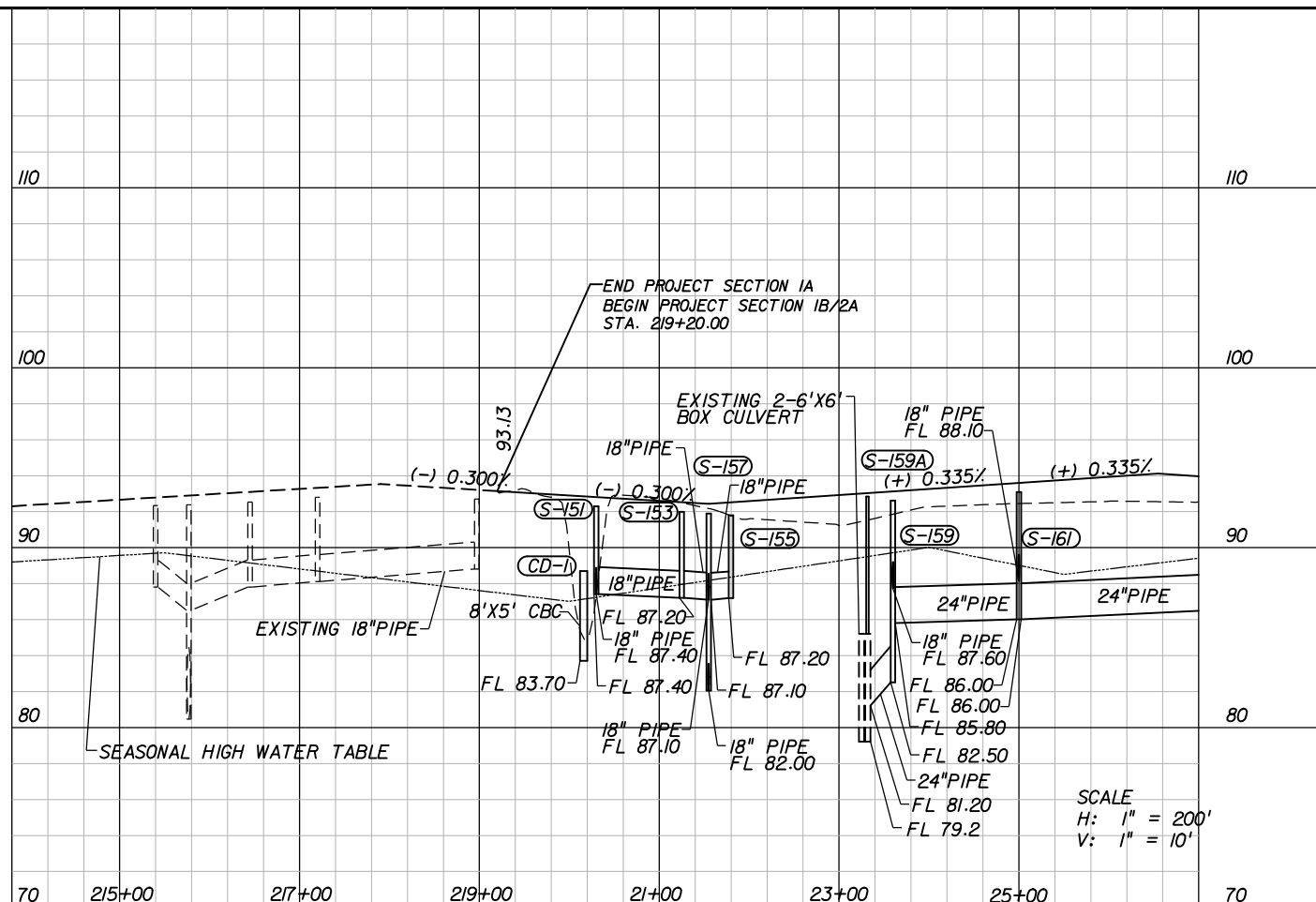
STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB. DISCHARGE	50 YR.FREQ. STAGE	1% PROB. DISCHARGE	100 YR.FREQ. STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE	PROB. %	FREQ. YR.
CD-1	20+17.85	112	88.09	144	88.37					218	89.65	0.2	500
CD-2	34+72.80	224	87.47	280	88.50					406	90.99	0.2	500
*CD-3	42+75.00	88.05	93.99	123	94.21					205	94.45	0.2	500

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NGVD, 1929.

DEFINITIONS:

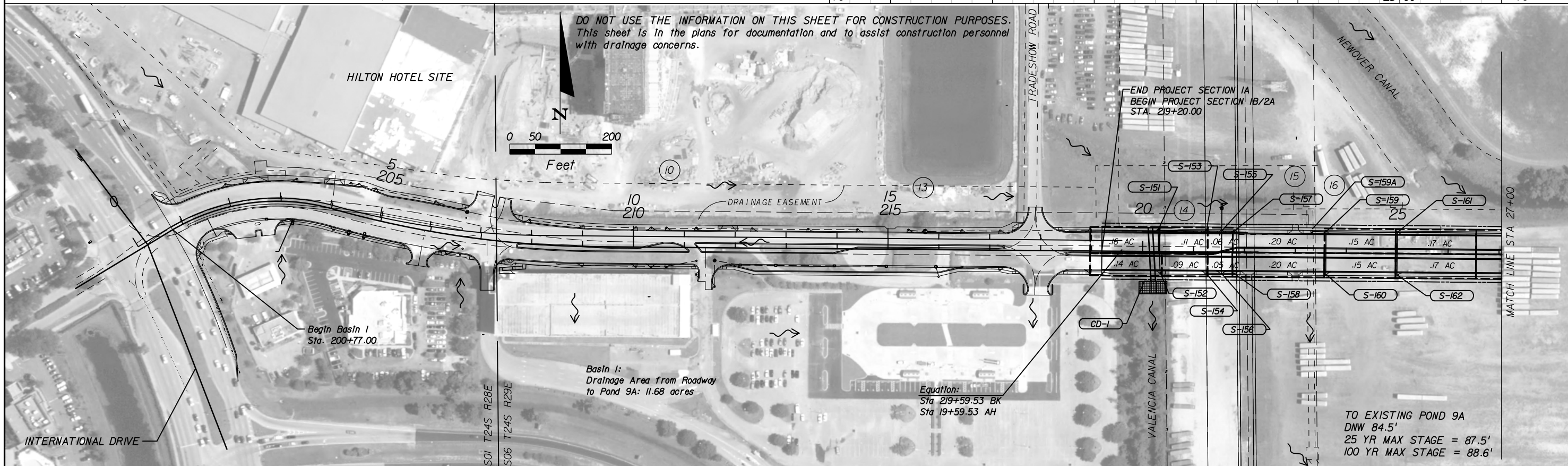
- DESIGN FLOOD: THE FLOOD SELECTED BY F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.
- BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)
- OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.
- GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

* CROSS DRAIN CD-3 SERVES AS AN EQUALIZER PIPE FOR POND OC-1. THE BASE FLOOD VALUES FOR THIS CROSS DRAIN WERE OBTAINED FROM A DRAINAGE ANALYSIS REPORT BY KIMLEY HORN AND ASSOCIATES, DATED JULY 2010. THE DESIGN AND GREATEST FLOOD VALUES HAVE BEEN ESTIMATED.



SCALE
H: 1" = 200'
V: 1" = 10'

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.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
AMY L. WOOLEY
P.E. #56796
ATKINS
License No. 24
482 South Keller Road
Orlando, FL 32810
(407) 647-7275
www.pbsj.com



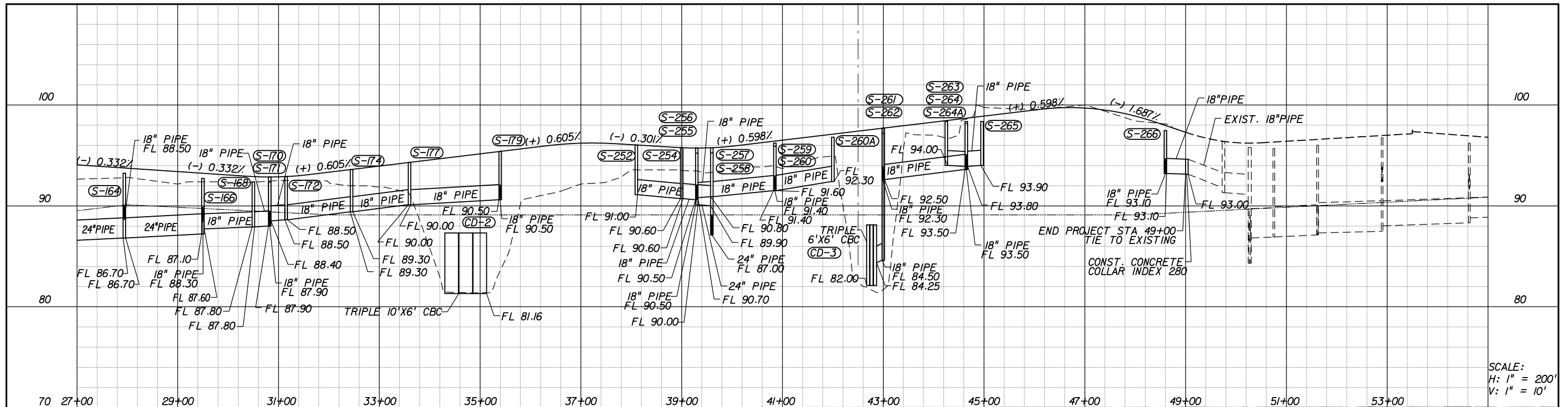
CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO.5089-SEC. 1B/2A

DRAINAGE MAP
SHEET NO. 4

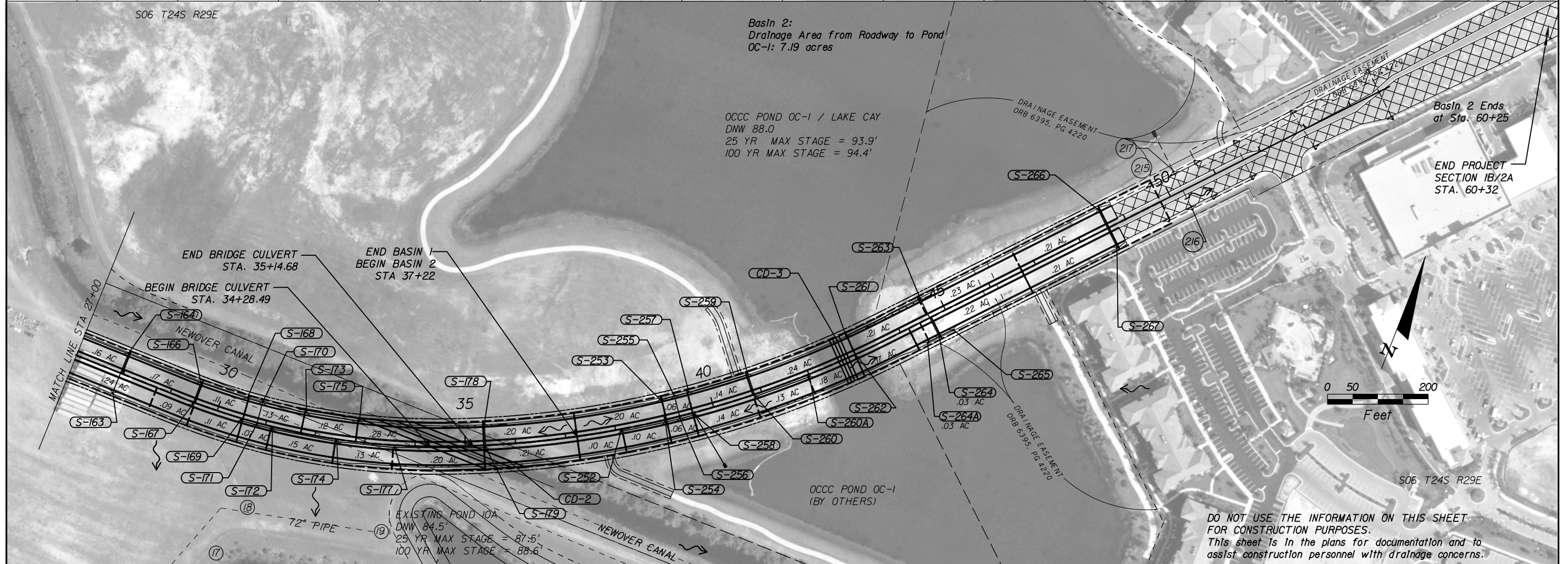
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SCALE:
H: 1" = 200'
V: 1" = 10'



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.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
AMY L. WOOLEY
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CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

DRAINAGE MAP
SHEET NO. 5

EXISTING DRAINAGE STRUCTURES

NO.	SOURCE	DESCRIPTION	NO.	SOURCE	DESCRIPTION
10	(B)	10' x 10' BOX W INV. 78.1 E INV. 78.0	216	(F)	TYPE P-2 INLET, 36" PIPE EOP EL = 95.80 INV. AH, LT = 86.6
13	(B)	10' x 10' BOX W INV. 78.0 E INV. 77.9	217	(F)	TYPE J2 INLET, 48" PIPE EOP EL = 95.80 INV. AH = 90.5 INV. BK = 91.0 INV. LT = 84.2 INV. RT = 86.4
14	(B)	TRAP WEIR ELEV 86.5			
15	(B)	HEADWALL - 2 - 6'X6' BOX INV. 77.9			
16	(B)	2-6' x 6' BOX N INV. 79.2 S INV. 78.0			
17	(B)	72" PIPE W INV. - 78.0 E INV. 78.0			
18	(B)	72" PIPE W INV. - 78.0 E INV. 78.0			
19	(B)	72" PIPE W INV. - 78.0 E INV. 78.0			
215	(F)	TYPE P-1 INLET, 24" PIPE EOP EL = 95.98 INV. AH = 91.2 INV. BK = 91.7			

SOURCE

- (A) Canadian Court, Plaza International, Orange County, Florida. Prepared for DBC - PI Development, Inc. by PEC dated January 27, 1992. As built information as provided by contractor Amick Construction Ltd. Jan 10, 1992 (). As built information as provided by PEC, Inc. Jan 22, 1992 +. Inverts measures to center of structure.
- (B) Sand Lake Road Complex, Master Stormwater System Stormwater Drainage Plans. Prepared by Donald W. McIntosh Associates, Inc. dated 1/01.
- (C) Cana-CT-Base-100.dgn.
- (D) Universal Blvd Construction Plans, Project No. Y1-802, by Donald W. McIntosh Associates, dated April 2001 and As-Built Drawings by Hubbard Construction.
- (E) PBS&J Survey Dated 8/2005
- (F) Canadian Court/John Young Parkway Connector Roadway - Proj. No. 5089 - Sec. 2 - Construction Plans
- (G) Intermodal Survey. Prepared by Buchhelt Associates, Inc. dated October 2005

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
AMY L. WOOLEY
 P.E. #56796
ATKINS
 License No. 24
 482 South Keller Road
 Orlando, FL 32810
 (407) 647-7275
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CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

**EXISTING
 DRAINAGE STRUCTURES**

SHEET NO.
 6

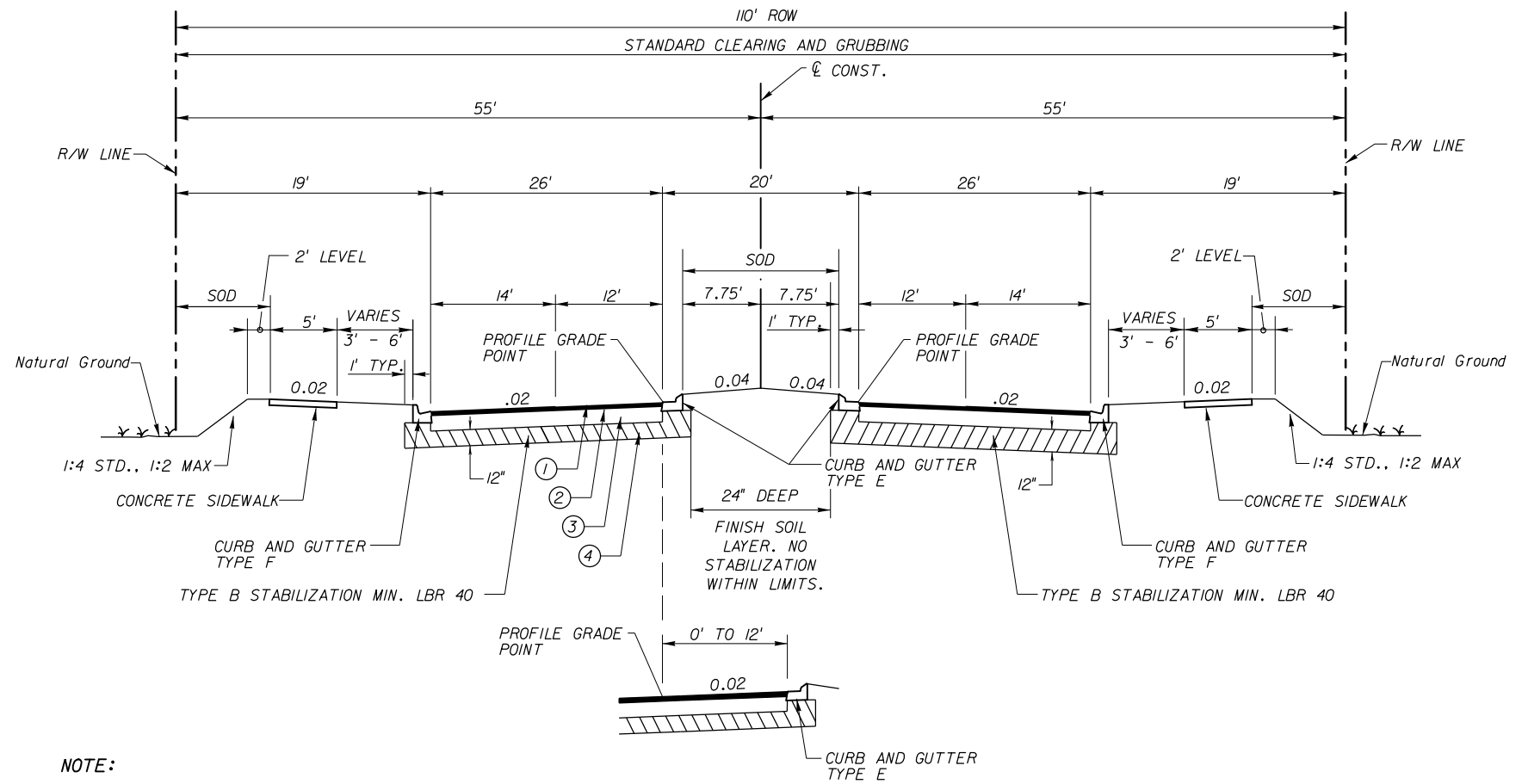
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NEW CONSTRUCTION

- ① 1.5" ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC LEVEL C) (FC-12.5)
- ② 2" SUPERPAVE ASPHALTIC CONCRETE STRUCTURE COURSE (TRAFFIC LEVEL C) (SP-12.5)
- ③ 12" SOIL CEMENT BASE COURSE (PRIMED) (300 PSI)
- ④ 12" STABILIZATION TYPE B (MIN LBR 40)

TRAFFIC DATA

CURRENT YEAR ESTIMATE = 2005 AADT = NA
 OPENING YEAR ESTIMATE = 2008 AADT = 21,000
 DESIGN YEAR ESTIMATE = 2028 AADT = 41,600
 K = 9.2% D = 57.9% T = 5.0% (24 HOUR)
 DESIGN HOUR T = 2.5%
 DESIGN SPEED = 45 MPH



NOTE:
 STA 22+75 to 23+25 MEDIAN:
 Place 12" Depth
 Stabilization, Type B
 (min LBR 40)

WESTBOUND LEFT TURN LANE
 STA. 219+20.00 TO STA. 21+86.53

TYPICAL SECTION NO. 1

SECTION 1B/2A CONSTRUCTION
 NOT TO SCALE

STA. 219+20.00 TO STA. 219+59.53
 STA. EQUATION: 219+59.53 (BK) = 19+59.53 (AHD)
 STA. 19+59.53 TO STA. 48+87.00 LT
 STA. 19+59.53 TO STA. 48+81.00 RT

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
ATKINS
 License No. 24

SUSAN A. GRATCH
 P.E. #40134
 482 South Keller Road
 Orlando, FL 32810
 (407) 647-7275
 www.pbsj.com



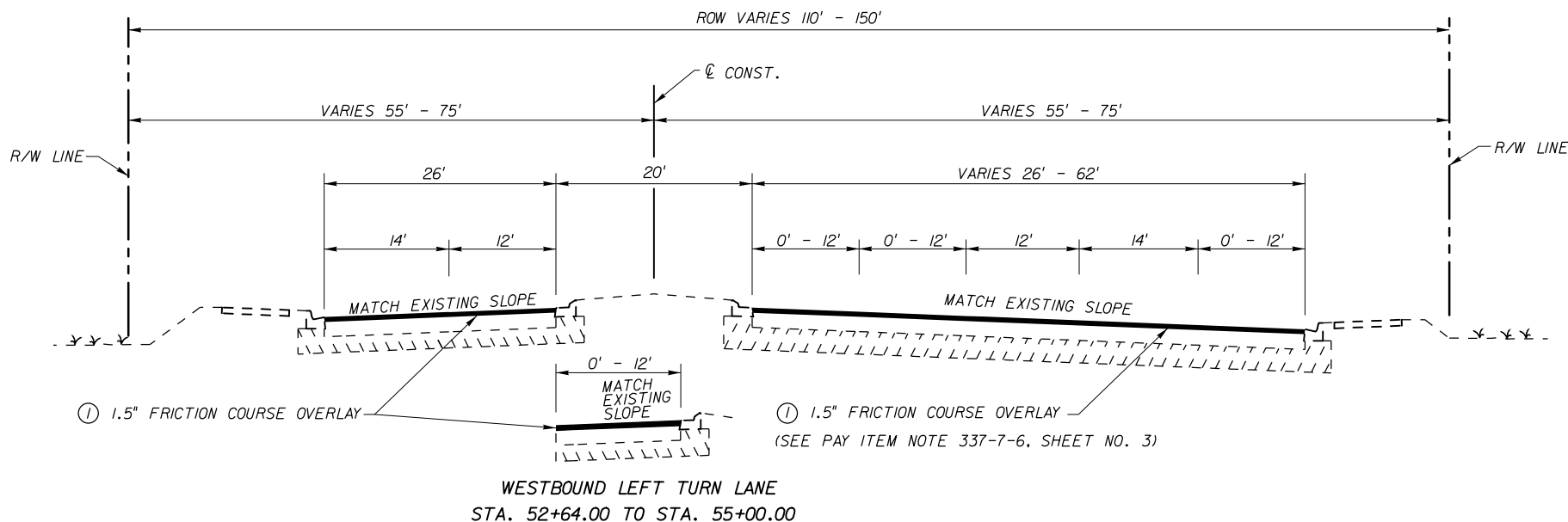
CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

TYPICAL SECTIONS

SHEET NO.
 7

FRICTION COURSE OVERLAY

- ① 1.5" ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC LEVEL C) (FC-12.5)
- **FRICTION COURSE SHALL BE UNDERLAID WITH BITUMINOUS TACK COAT PER TECHNICAL PROVISIONS (TACK COAT SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 337-7-6)



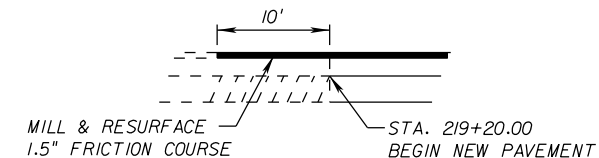
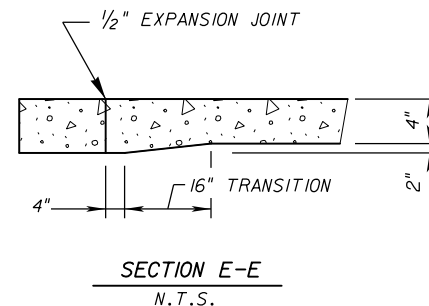
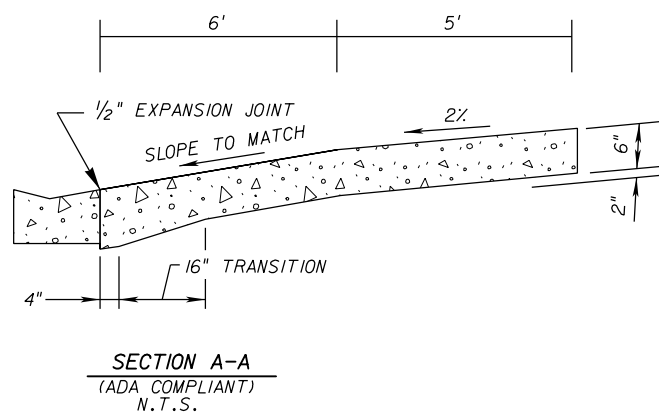
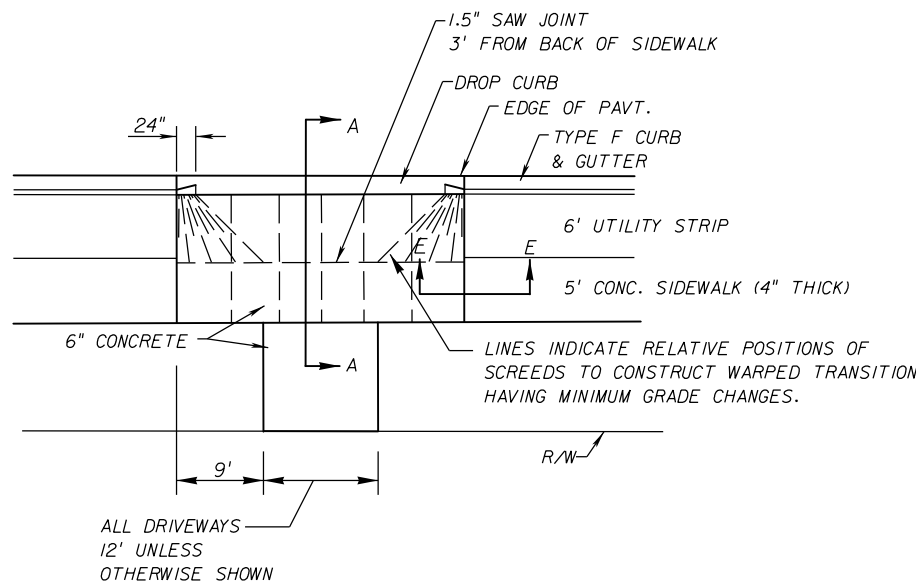
TRAFFIC DATA

CURRENT YEAR ESTIMATE = 2005 AADT = NA
 OPENING YEAR ESTIMATE = 2008 AADT = 21,000
 DESIGN YEAR ESTIMATE = 2028 AADT = 41,600
 K = 9.2% D = 57.9% T = 5.0% (24 HOUR)
 DESIGN HOUR T = 2.5%
 DESIGN SPEED = 45 MPH

TYPICAL SECTION NO. 2

SECTION 2B FRICTION COURSE OVERLAY
 NOT TO SCALE

STA. 48+87.00 LT TO STA. 60+32.00
 STA. 48+81.00 RT TO STA. 60+32.00



COMMERCIAL DRIVEWAY TYPICAL
 NOT TO SCALE
 STA. 22+08.37 RT

SAWCUT BUTT JOINT DETAIL
 NOT TO SCALE
 STA. 219+0.00 - 219+20.00

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: SUSAN A. GRATCH
 P.E. #40134

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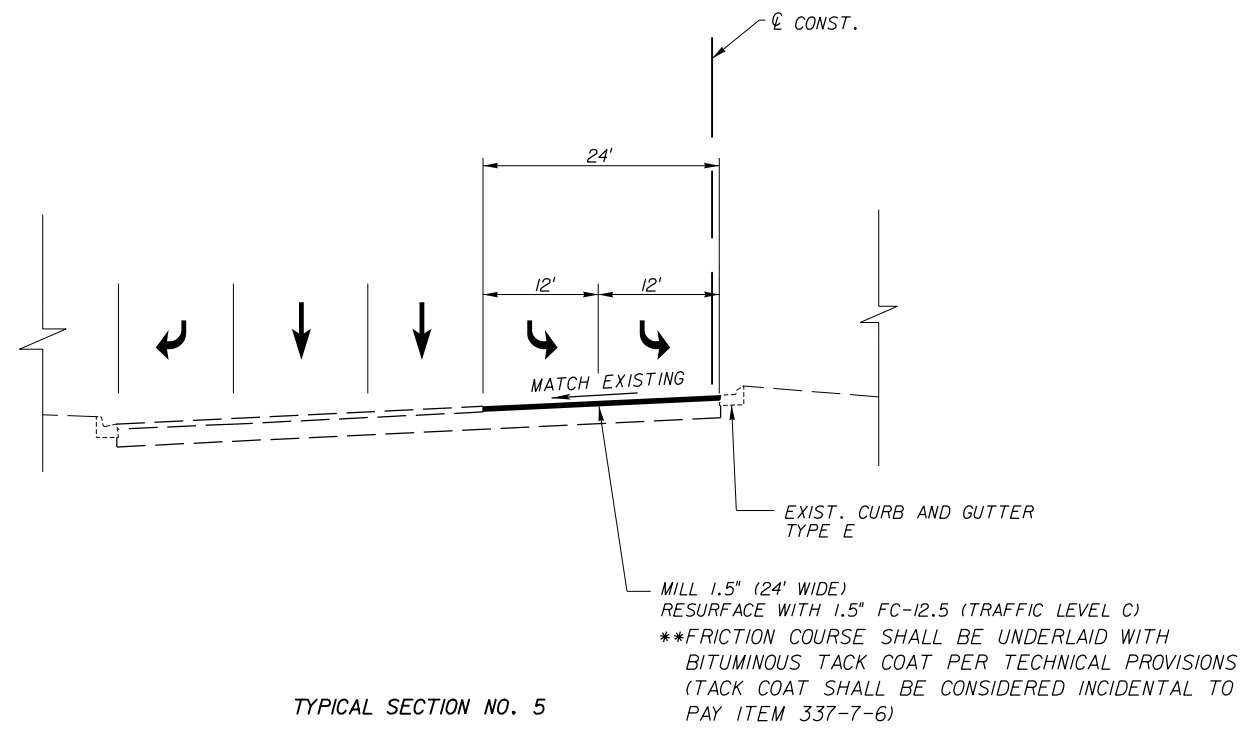
CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY

PROJ. NO. 5089 - SEC. 1B/2A

TYPICAL SECTIONS

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 8

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TYPICAL SECTION NO. 5
 DESTINATION PARKWAY (WESTBOUND)
 STA. 61+90.00 TO STA. 67+20.00

NOTE:
 SEE PLAN SHEET S-12 FOR ROADWAY PLAN VIEW

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: SUSAN GRATCH
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TYPICAL SECTIONS

SHEET NO.
 8A

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SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION		
MAINLINE	2330	
TOTAL EXCAVATION:	2330	
EMBANKMENT		
MAINLINE	23636	
TOTAL EMBANKMENT:	23636	

SUMMARY OF PEDESTRIAN/BICYCLE HANDRAIL					
LOCATION	SIDE	PEDESTRIAN/BICYCLE HANDRAIL		REMARKS	FIELD BOOK REFERENCE
		LF			
STA. TO STA.		P	F		
MAINLINE:					
19+79.00 TO 20+57.00	LT	78		DBL BULLET MOUNTED ON TRAFFIC RAIL	
20+04.00 TO 20+39.00	RT	35		54" BIKE/PED PICKET RAIL	
31+58.55 TO 34+63.00	LT	294		DBL BULLET MOUNTED ON TRAFFIC RAIL	
34+75.00 TO 36+75.00	RT	205		DBL BULLET MOUNTED ON TRAFFIC RAIL	
41+95.00 TO 43+52.00	LT	153		DBL BULLET MOUNTED ON TRAFFIC RAIL	
42+08.00 TO 43+42.00	RT	137		DBL BULLET MOUNTED ON TRAFFIC RAIL	
TOTALS:		867		DBL BULLET MOUNTED ON TRAFFIC RAIL	
		35		54" BIKE/PED PICKET RAIL	

ESTIMATED CONCRETE AND STEEL QUANTITIES FOR BOX CULVERT			
PAY ITEM	LOCATION	CLASS IV CONC., CULVERT	REINF. STEEL, MISC.
		CY	LBS
400-1	VALENCIA	151.5	27,660
400-2	NEWOVER	1350	283,527
400-3	LAKE CAY	592	79,632

SUMMARY OF GUARDRAIL (PLACED PER INDEX 400, 2015 STANDARDS)												
LOCATION		GUARDRAIL (LF)					END ANCHORAGE ASSEMBLIES (EA)		REMARKS	FIELD BOOK REFERENCE		
STATION	SIDE	ROADWAY		MISC. ASPHALT (SY) (2" THICK MIN.)		RUBRAIL		PARALLEL			TYPE II	
		P	F	P	F	STATION	P	F				P
FROM 20+51.00	LT	151.50		53.83		NOT REQ'D				I		
TO 22+02.50												
FROM 33+56.00	RT	125.00		45.00		125'				I		
TO 34+81.00												
FROM 34+57.00	LT	125.00		45.00		125'				I		
TO 35+82.00												
FROM 40+89.00	RT	125.00		45.00		125'				I		
TO 42+14.00												
FROM 43+46.00	LT	141.00		50.33		54'				I		
TO 44+87.00												
TOTAL		667.50		239.16		429'		5		5		

SUMMARY OF TURBIDITY BARRIER & SILT FENCE							
LOCATION	SIDE	STAKED TURBIDITY BARRIER		FLOATING TURBIDITY BARRIER		SILT FENCE	
		LF		LF		LF	
STATION TO STATION		P	F	P	F	P	F
20+00.00 TO 20+55.00	LT/RT	300					
32+17.80 TO 35+36.82	LT/RT	335					
34+36.39 TO 36+66.31	LT/RT	260					
20+00.00	RT			100			
20+00.00	LT			100			
32+50.00 TO 34+00.00	LT			150			
35+00.00 TO 36+50.00	RT			150			
39+50.00	RT			250			
41+50.00 TO 44+50.00	LT			450			
41+50.00 TO 44+00.00	RT			450			
219+00.00 TO 49+00.00	LT						3040
	RT						3050
TOTAL		895		1650		6090	

SUMMARY OF ROCK BAGS					
APPLICATION /INLET TYPE	QUANTITY	ROCK BAGS		5" PERFORATED PIPE W/ FILTER SOCK	
		EA		LF	
		P	F	P	F
TYPE 1	37	518		740	
TYPE 2	8	112		160	
GRAND TOTALS:	43	616		880	

SUMMARY OF DITCH PAVEMENT					
LOCATION	SIDE	RUBBLE RIPRAP (DITCH LINING)		ARTICULATED CONCRETE BLOCK MAT	
		CY		SY	
		P	F	P	F
20+20.00	RT			157	
21+55.00	LT	1			
GRAND TOTALS:		1		157	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: **SUSAN GRATCH**
P.E. #40134

ATKINS

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CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY

PROJ. NO. 5089 - SEC. 1B/2A

SUMMARY OF QUANTITIES


SHEET NO.
9

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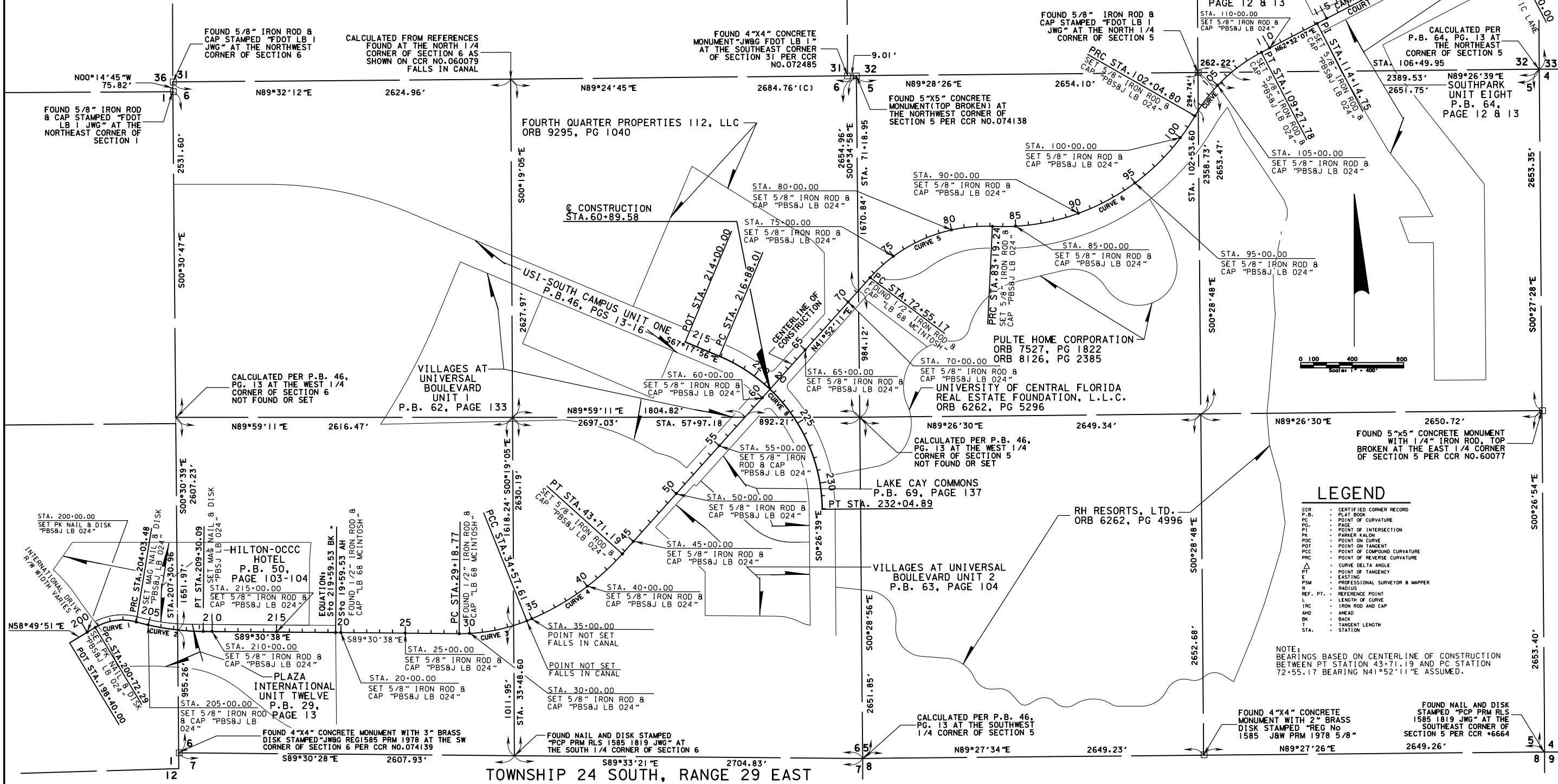
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SUMMARY OF DRAINAGE STRUCTURES

QTY	STR. NO.	STATION	SIDE	DESCRIPTION	B/S	SIZE (INCHES)	LENGTH (FT)	STORM DRAIN/CROSS DRAIN				CURB INLETS				MANHOLE SPECIAL	MITERED END SECTION		BOX CULVERT			REMARKS	
								RCP CLASS III				P-1 <10	P-1 >10	P-2 <10	J-1 >10		P-8 <10	18"	24"	CBC-1 LS	CBC-2 LS		CBC-3 LS
								ROUND PIPE															
								18"	24"	48"	60"												
P	S-151	20+30.00	LT	INLET, PIPE	/	18	91	91															
F																							
P	S-152	20+35.00	RT	INLET, PIPE	/	18	79	79															
F																							
P	S-153	21+25.00	LT	INLET, PIPE	/	18	26	26															
F																							
P	S-154	21+25.00	RT	INLET, PIPE	/	18	26	26															
F																							
P	S-155	21+55.00	LT	INLET, PIPE, MES	/	18	38	38				/		/							1:2 MES		
F																							
P	S-156	21+55.00	RT	INLET, PIPE	/	18	79	79				/											
F																							
P	S-157	21+80.00	LT	INLET, PIPE	/	18	21	21				/											
F																							
P	S-158	21+80.00	RT	INLET, PIPE	/	18	21	21				/											
F																							
P	S-159	23+60.00	LT	INLET, PIPE	/	24	23		23			/									TIE INTO EXIST. CBC, INCLUDES REINFORCING, STC-17/18		
F																							
P	S-159A	23+32.00	LT	MANHOLE	/	-	-							/							TIE INTO EXIST. CBC, INCLUDES REINFORCING, STC-17/18		
F																							
P	S-160	23+60.00	RT	INLET, PIPE	/	18	79	79				/											
F																							
P	S-161	25+00.00	LT	INLET, PIPE	/	24	136		136			/											
F																							
P	S-162	25+00.00	RT	INLET, PIPE	/	18	79	79				/											
F																							
P	S-163	27+94.00	RT	INLET, PIPE	/	18	79	79						/									
F																							
P	S-164	27+94.00	LT	INLET, PIPE	/	24	290		290			/											
F																							
P	S-166	29+50.00	LT	INLET, PIPE	/	24	151		151			/											
F																							
P	S-167	29+50.00	RT	INLET, PIPE	/	18	42	42				/											
F																							
P	S-168	30+50.00	LT	INLET, PIPE	/	18	93	93				/											
F																							
P	S-169	30+50.00	RT	INLET, PIPE	/	18	29	29				/											
F																							
P	S-170	30+82.50	LT	INLET, PIPE	/	18	28	28				/											
F																							
P	S-171	30+82.50	RT	INLET, PIPE	/	18	43	43				/											
F																							
P	S-172	31+15.00	RT	INLET, PIPE	/	18	29	29				/											
F																							
P	S-173	31+75.00	LT	INLET, PIPE	/	18	86	86				/											
F																							
P	S-174	32+45.00	RT	INLET, PIPE	/	18	127	127				/											
F																							
P	S-175	32+85.00	LT	INLET, PIPE	/	18	103	103				/											
F																							
P	S-177	33+60.00	RT	INLET, PIPE	/	18	112	112				/											
F																							
P	S-178	35+40.00	LT	INLET, PIPE	/	18	43	43				/											
F																							
P	S-179	35+40.00	RT	INLET, PIPE	/	18	177	177				/											
F																							
								PLAN QUANTITY	1530	600	0	0	21	1	5	0	1	1	0	0	0		
								FINAL QUANTITY															

REVISIONS						Engineer of Record: AMY L. WOOLEY P.E. #56796 ATKINS License No. 24 482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.pbsj.com		 CANADIAN COURT/ JOHN YOUNG PARKWAY CONNECTOR ROADWAY PROJ. NO. 5089 - SEC. 1B/2A		SUMMARY OF DRAINAGE STRUCTURES		SHEET NO. 10	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION								

CURVE NO. 1	CURVE NO. 2	CURVE NO. 3	CURVE NO. 4	CURVE NO. 5	CURVE NO. 6	CURVE NO. 7	CURVE NO. 8
P.I. STA. - 202+47.80 Δ = 46°54'45" (RT) R = 404.50' T = 175.51' L = 331.20' P.C. STA. - 200+72.29 P.T. STA. - 204+03.48 P.I. COORDINATES N = 45752.1464 E = 38932.7995	P.I. STA. - 206+68.35 Δ = 15°15'14" (LT) R = 1978.00' T = 264.87' L = 526.61' P.C. STA. - 204+03.48 P.T. STA. - 209+30.09 P.I. COORDINATES N = 45632.6572 E = 39356.6626	P.I. STA. - 31+91.69 Δ = 22°26'51" (LT) R = 1375.35' T = 272.92' L = 538.84' P.C. STA. - 29+18.77 P.T. STA. - 34+57.61 P.I. COORDINATES N = 45611.0725 E = 41883.0391	P.I. STA. - 39+22.51 Δ = 26°10'20" (LT) R = 2000.00' T = 464.91' L = 913.58' P.C. STA. - 34+57.61 P.T. STA. - 43+71.19 P.I. COORDINATES N = 45886.9661 E = 42567.3403	P.I. STA. - 78+25.04 Δ = 50°48'19" (RT) R = 1200.00' T = 569.87' L = 1064.06' P.C. STA. - 72+55.18 P.T. STA. - 83+19.24 P.I. COORDINATES N = 48805.1304 E = 45182.8658	P.I. STA. - 93+68.65 Δ = 62°37'44" (LT) R = 1725.00' T = 1049.41' L = 1885.56' P.C. STA. - 83+19.24 P.T. STA. - 102+04.80 P.I. COORDINATES N = 48729.5622 E = 46800.3804	P.I. STA. - 105+76.29 Δ = 32°29'21" (RT) R = 1275.00' T = 371.50' L = 722.98' P.C. STA. - 102+04.80 P.T. STA. - 109+27.78 P.I. COORDINATES N = 49959.5325 E = 47511.8234	P.I. STA. - 225+46.09 Δ = 66°51'17" (RT) R = 1300.00' T = 858.08' L = 1516.89' P.C. STA. - 216+88.01 P.T. STA. - 232+04.89 P.I. COORDINATES N = 47437.85 E = 44423.10



LEGEND

- CCR - CERTIFIED CORNER RECORD
- P.B. - PLAT BOOK
- PC - POINT OF CURVATURE
- PG - PAGE
- PI - POINT OF INTERSECTION
- PK - PARKER KALON
- POC - POINT ON CURVE
- POT - POINT ON TANGENT
- PCP - POINT OF COMPOUND CURVATURE
- PRC - POINT OF REVERSE CURVATURE
- Δ - CURVE DELTA ANGLE
- ΔT - POINT OF TANGENCY
- E - EASTING
- PSM - PROFESSIONAL SURVEYOR & MAPPER
- R - RADIUS
- REF. PT. - REFERENCE POINT
- L - LENGTH OF CURVE
- IRC - IRON ROD AND CAP
- AND - AHEAD
- BK - BACK
- T - TANGENT LENGTH
- STA. - STATION

NOTE: BEARINGS BASED ON CENTERLINE OF CONSTRUCTION BETWEEN PT STATION 43+71.19 AND PC STATION 72+55.17 BEARING N41°52'11" E ASSUMED.

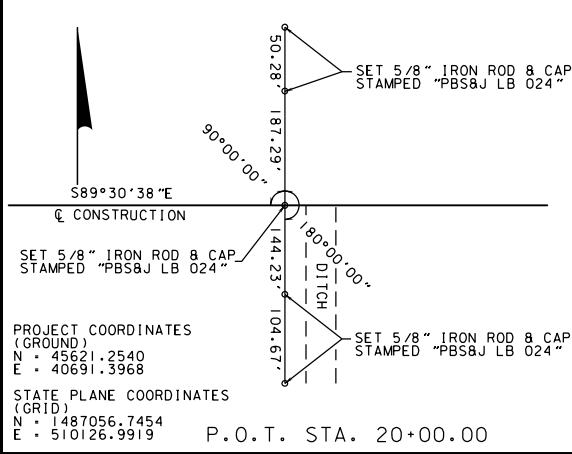
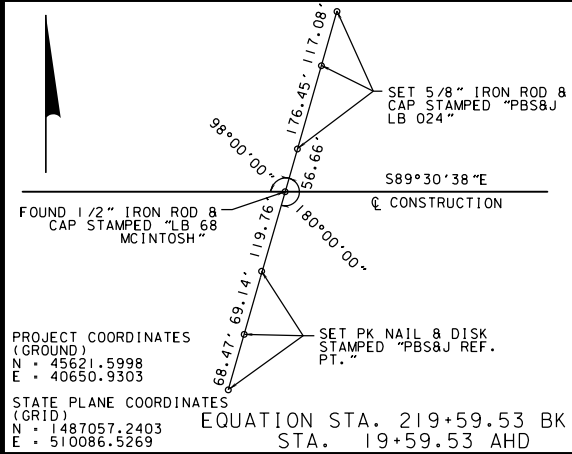
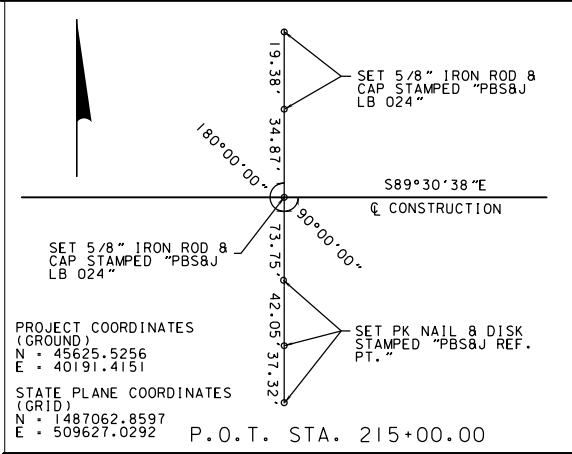
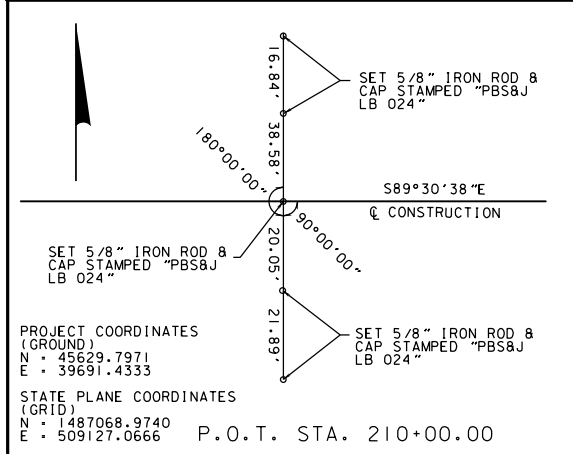
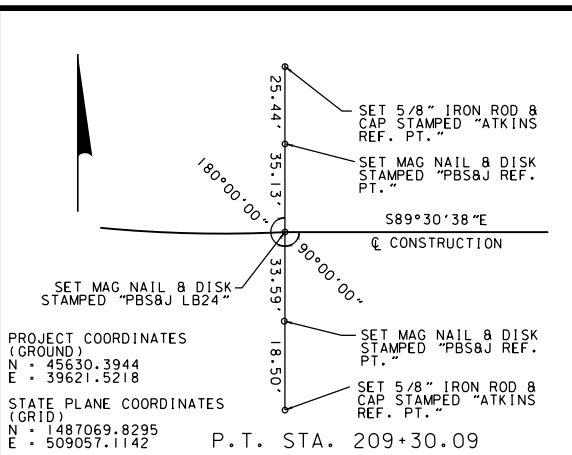
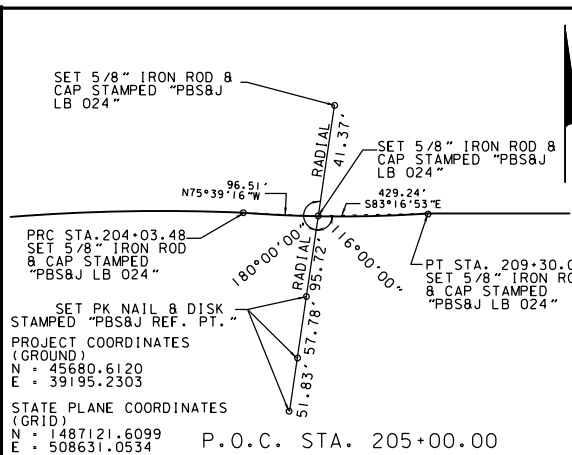
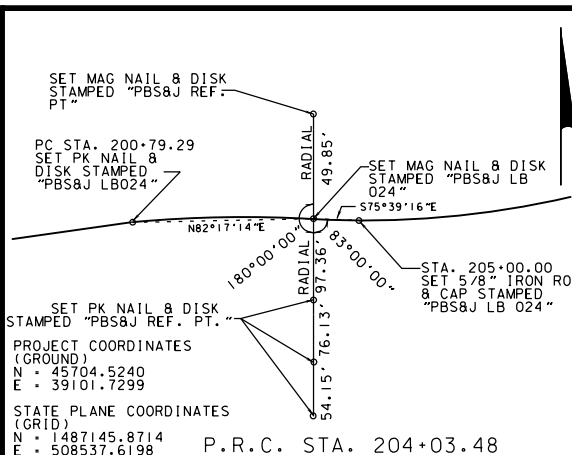
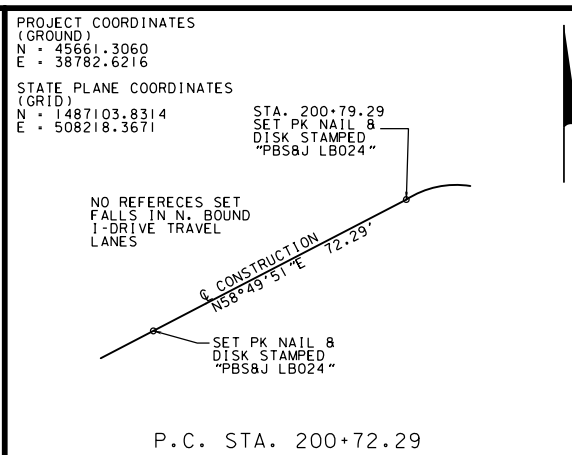
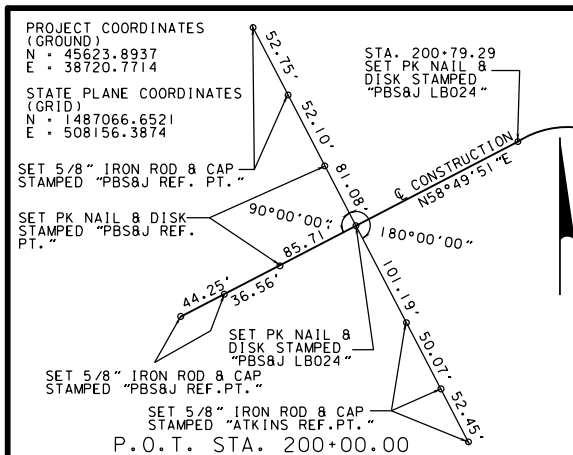
REVISIONS			
DATE	BY	DESCRIPTION	
10/04/2015	EW	UPDATED REFERENCES	
08/04/2008	HHH	ADDENDUM 1 - SURVEY CONTROL SHEET UPDATED	

Engineer of Record:
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 J. VANCE CARPER JR.
 402 S. South-8300 Road
 Orange, FL 32837
 (407) 880-1100, PLS 32810
 www.atkins.com/northamerica

ORANGE COUNTY GOVERNMENT
 CANADIAN COURT / JOHN YOUNG PARKWAY CONNECTOR ROADWAY
 PROJ. NO. 5089-SEC. 1B/2A

SURVEY CONTROL SHEET
 SHEET NO. 12

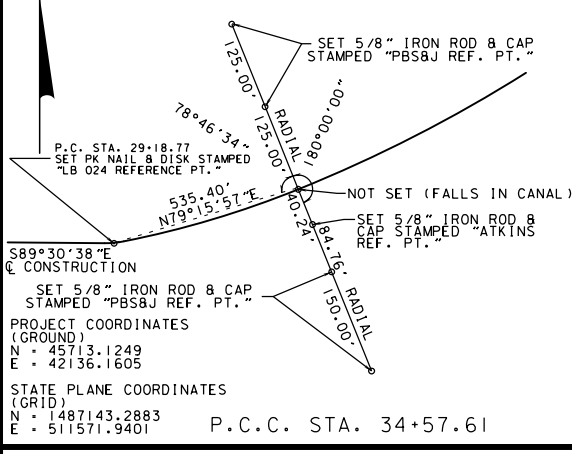
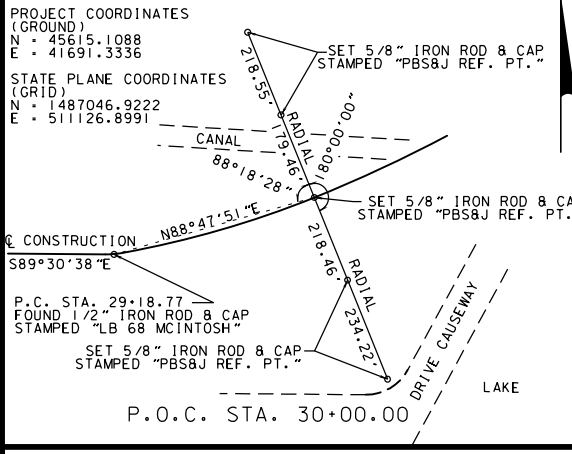
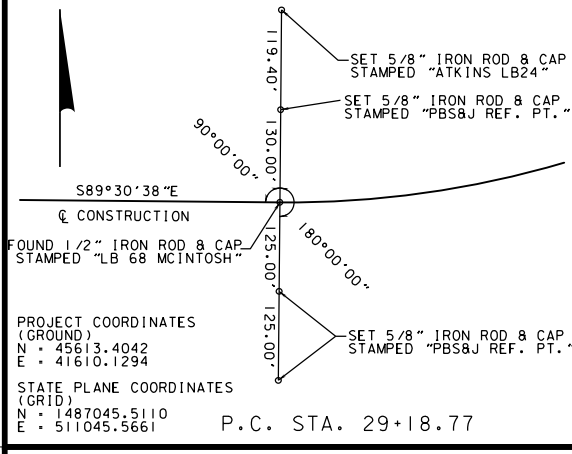
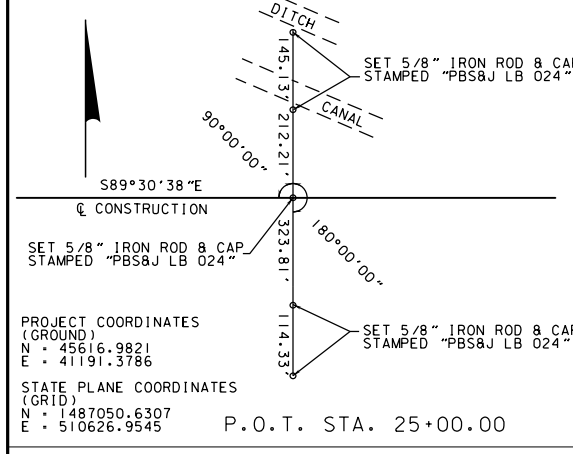
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NOTE: 1. NAD 83(1999) STATE PLANE FL EAST COORDINATES WERE ADDED FOR EACH CENTERLINE STATION AS OF OCTOBER 4TH, 2015

2. CENTERLINE POINTS AND REFERENCES WERE ORIGINALLY SET IN AUGUST, 2008

3. CONTROL POINTS AT THE FOLLOWING STATIONS ALONG THE CENTERLINE WERE RECOVERED OR RESET AS OF 10/04/15, AND WERE RECOVERED AND FLAGGED OR PAINTED ON FEBRUARY 11, 2016: 200+00.00, 200+72.29, 204+03.48, 209+30.09, 219+59.53, 29+18.77, 34+57.61, 40+00.00, 43+71.19, 45+00.00, 50+00.00, 55+00.00.



BENCHMARKS

STA. 199+13.29 - 516.83' RT.
BM 94408205
ELEV=94.27'
SET PARKER-KAYLON NAIL & DISK STAMPED "PBS&J LB 024"

STA. 200+01.89 - 6.50' LT.
BM 361
ELEV=95.85'
FOUND PARKER-KAYLON NAIL & DISK STAMPED "LB 68"

STA. 201+30.44 - 173.78' LT.
BM 9436601
ELEV=99.25'
SET PARKER-KAYLON NAIL & DISK STAMPED "PBS&J TRAV. PT."

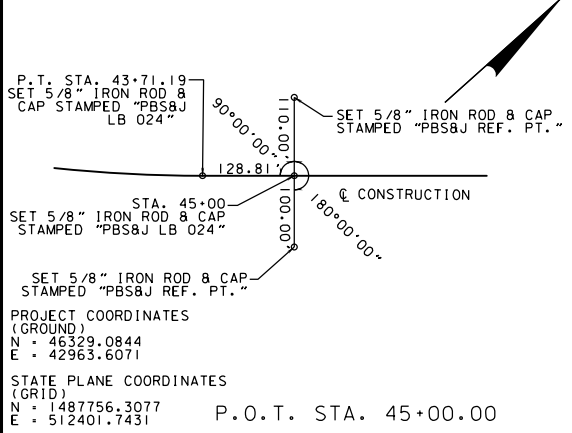
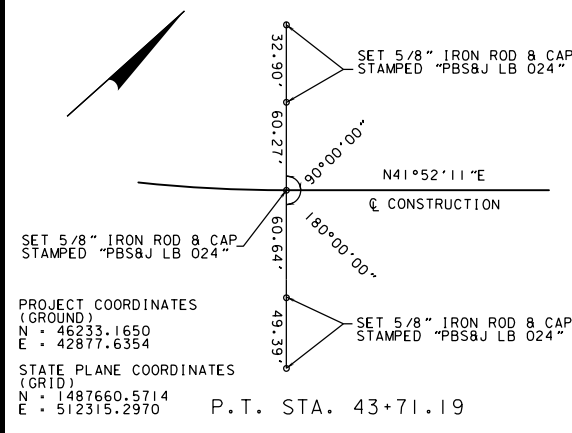
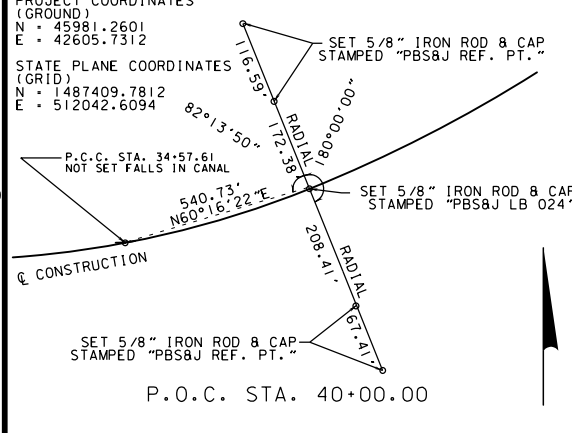
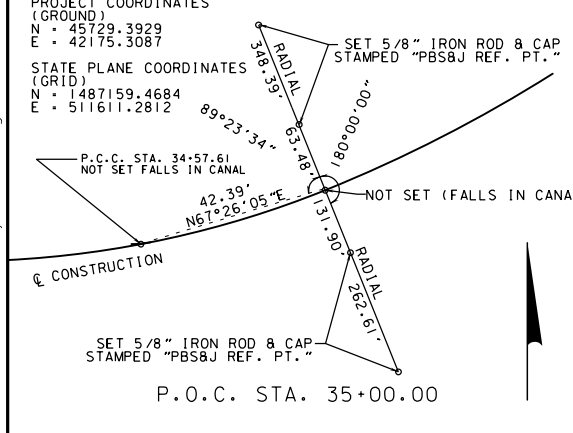
STA. 208+24.22 - 18.19' LT.
BM 372
ELEV=90.99'
FOUND PARKER-KAYLON NAIL AND DISK STAMPED "PRM LS 4044."

STA. 213+75.87 - 36.77' LT.
BM 1601
ELEV=91.13'
FOUND PARKER-KAYLON NAIL AND DISK STAMPED "PBS&J TRAV. PT."

STA. 219+59.53 - 00.00' RT.
BM 385
ELEV=92.72'
FOUND 1/2" IRON ROD AND CAP STAMPED "MCINTOSH LB 68"

STA. 25+00 - 110' RT.
BM 9727414
ELEV=91.86'
SET POURED IN PLACE CONCRETE MONUMENT WITH 5/8" IRON ROD AND CAP STAMPED "PBS&J TRAV. PT."

THE ELEVATIONS SHOWN HEREON ARE BASED ON ORANGE COUNTY BENCHMARKS, VERTICAL DATUM NGVD 29. PLEASE SEE THE COVER SHEET FOR A LISTING OF THE ORANGE COUNTY BENCHMARKS THAT WERE USED.



REVISIONS			
DATE	BY	DESCRIPTION	
10/04/2015	EW	UPDATED REFERENCES AND ADDED STATE PLANE COORDINATES	
08/04/2008	HHH	ADDENDUM 1 - SURVEY CONTROL SHEET UPDATED	

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LB No. 24

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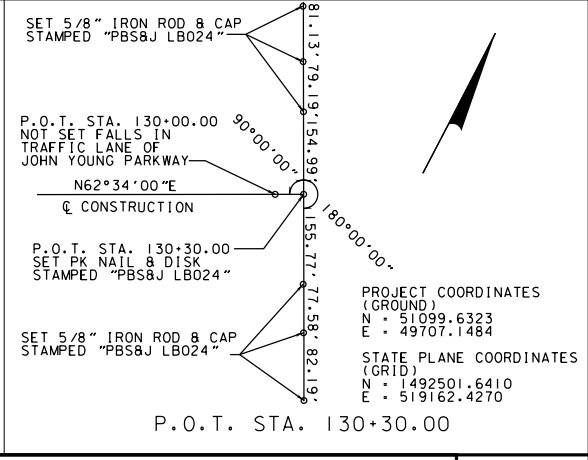
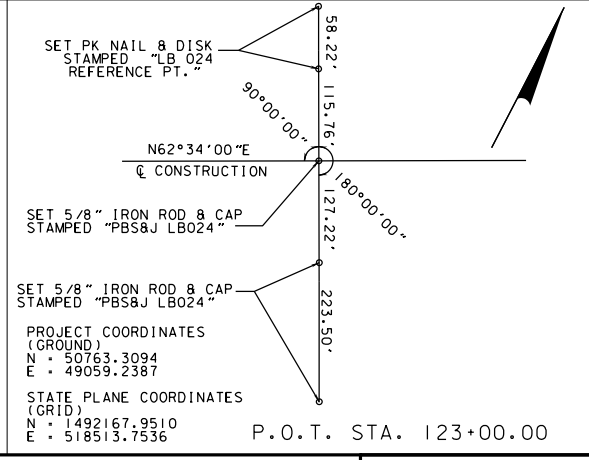
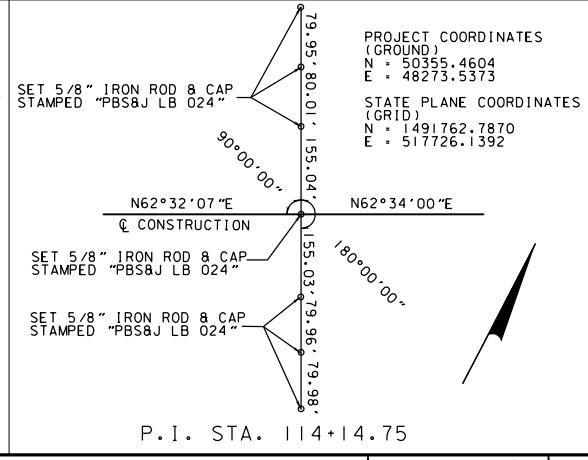
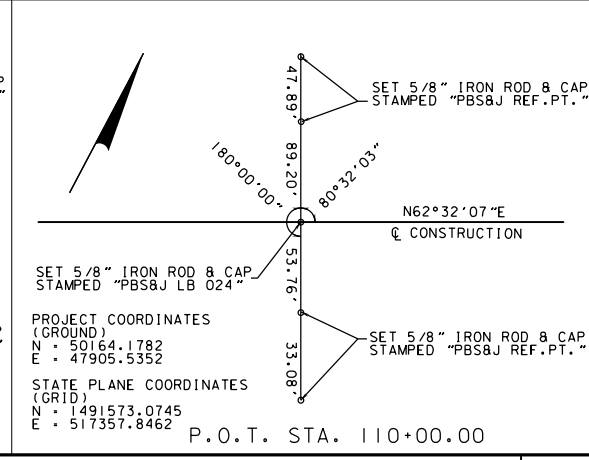
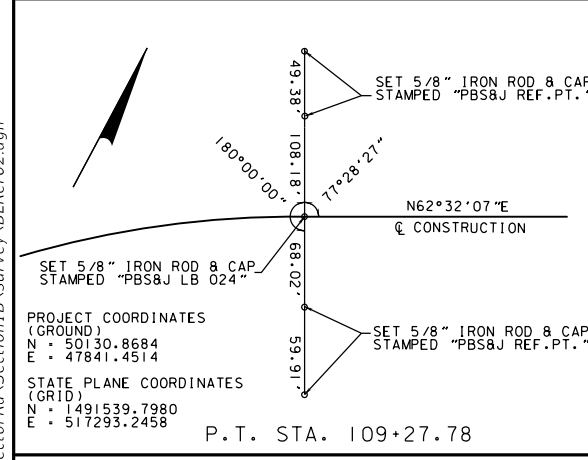
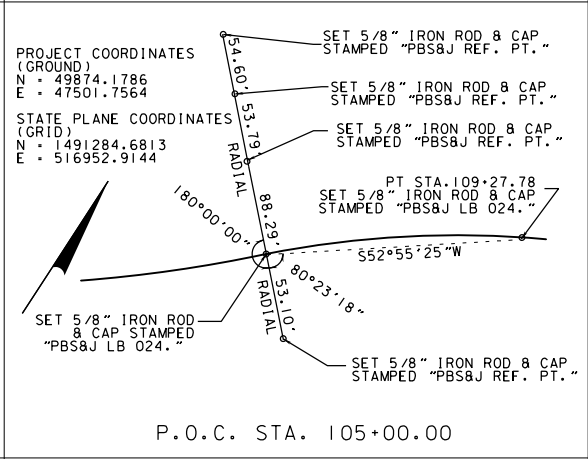
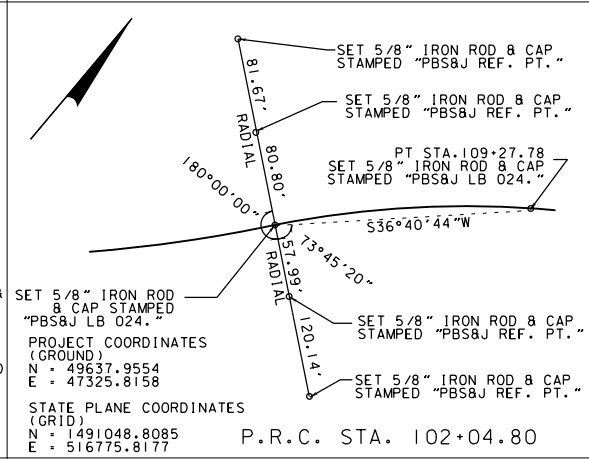
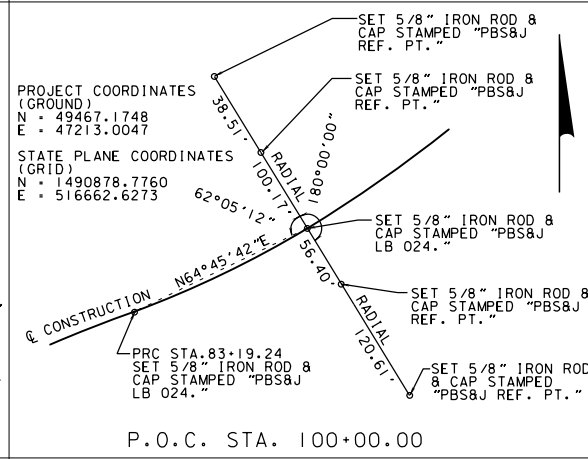
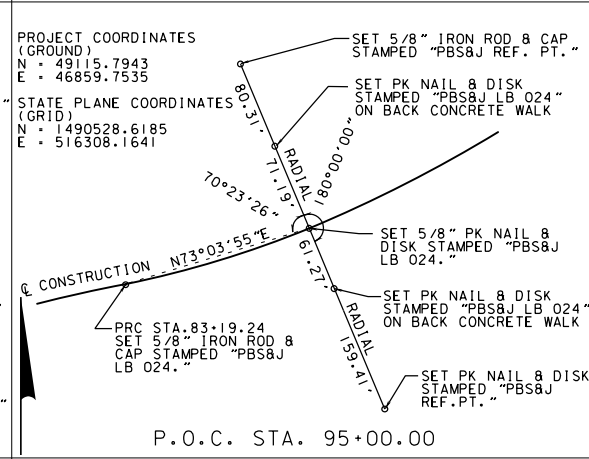
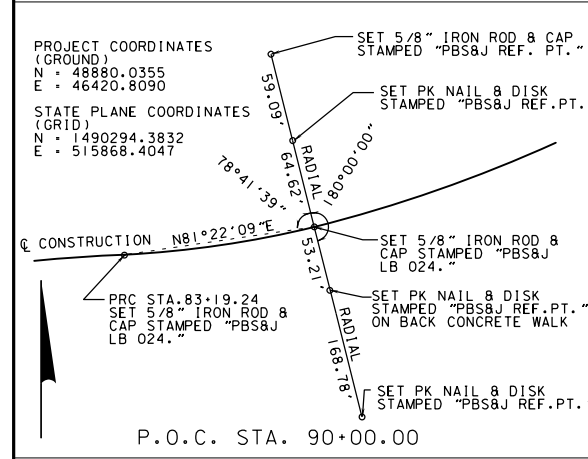
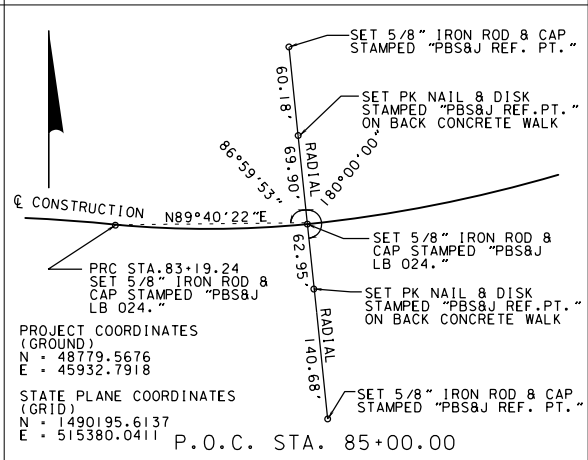
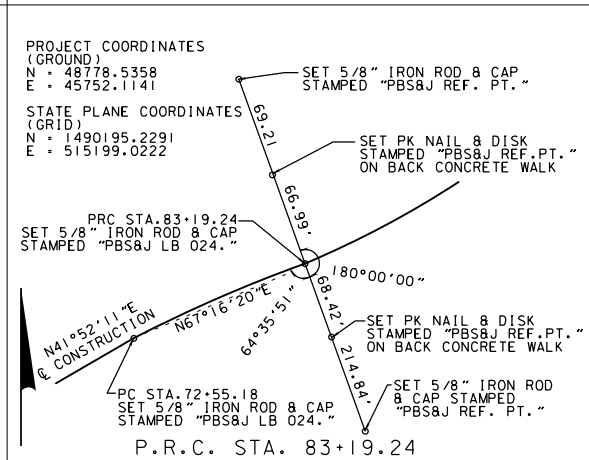
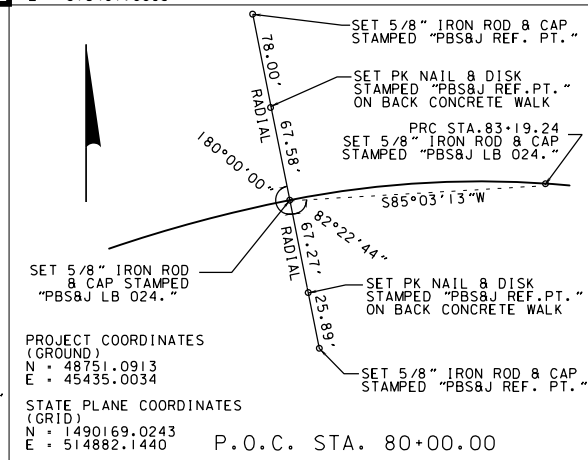
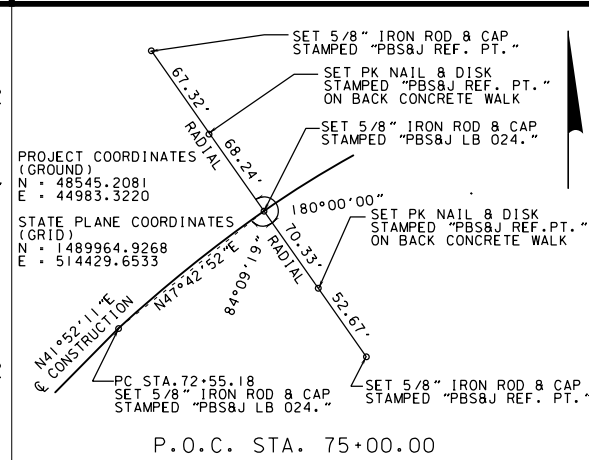
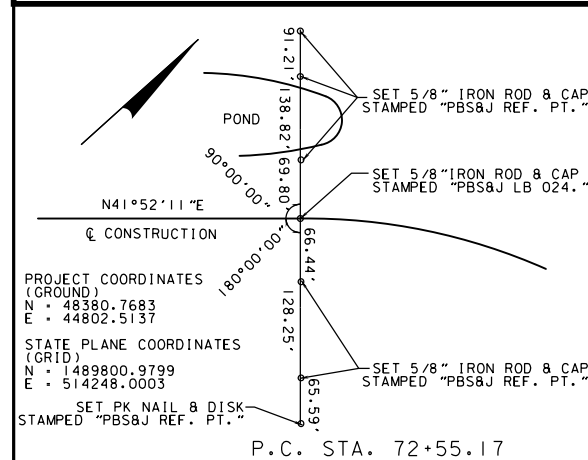
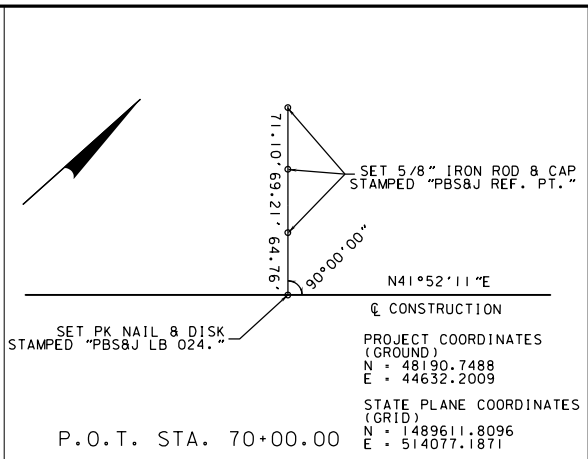
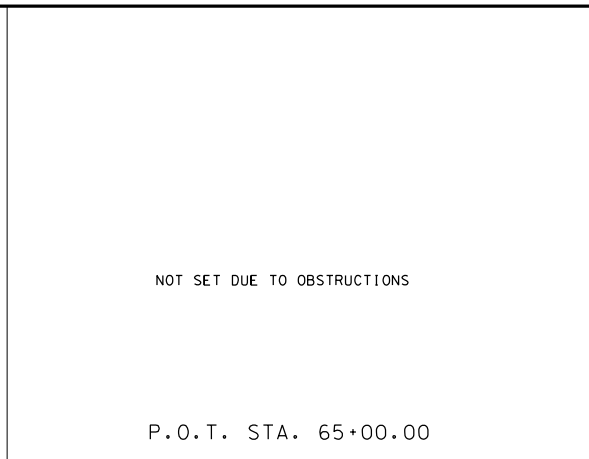
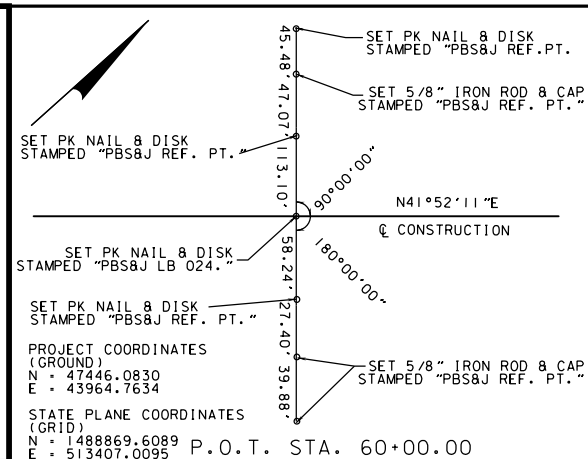
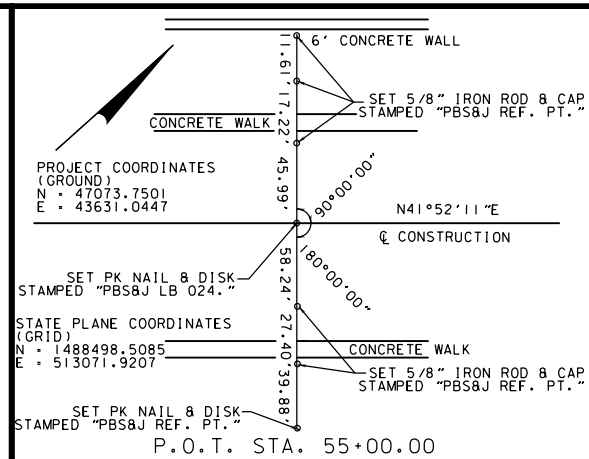
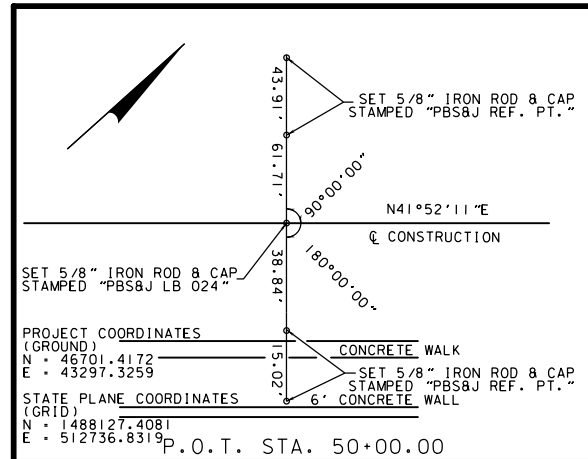
CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY

PROJ. NO. 5089-SEC. 1B/2A

SURVEY CONTROL SHEET

SHEET NO. 13

5/10/2016 3:22:19 PM T:\Cadd\JYPConnector\Section1B\Survey\BLR01.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/04/2015	EW	ADDED STATE PLANE COORDINATES			
08/04/2008	HHH	ADDENDUM 1 - SURVEY CONTROL SHEET UPDATED			



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JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089-SEC. 3

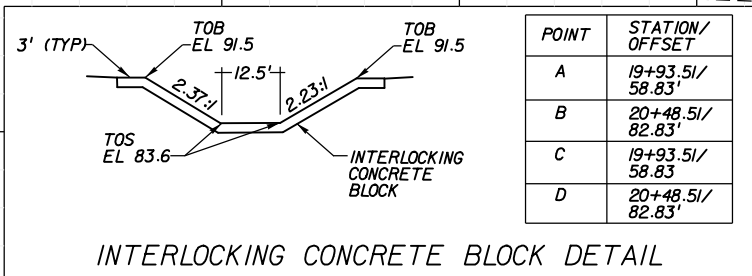
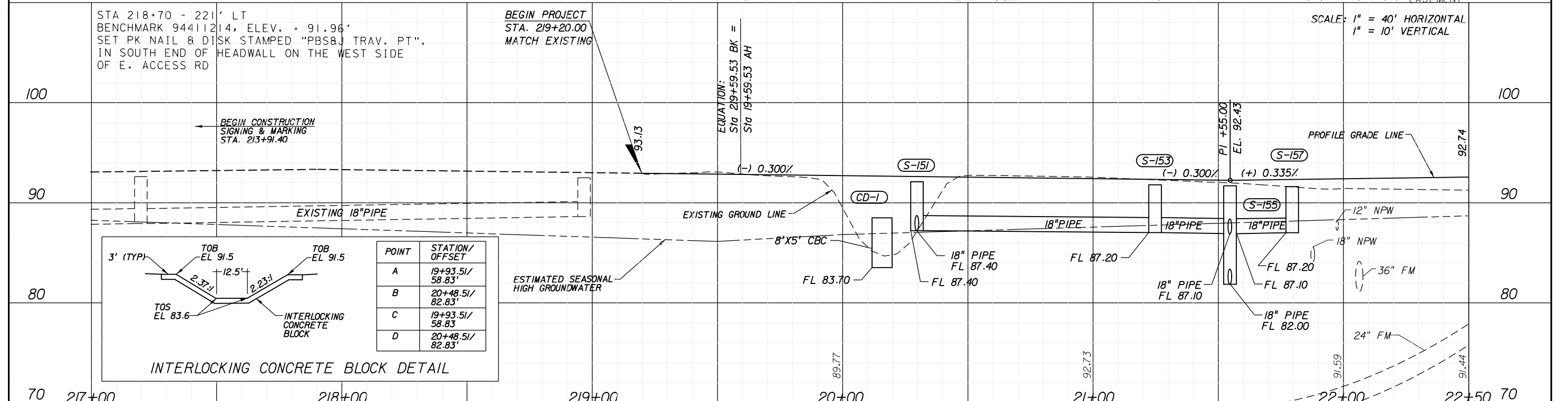
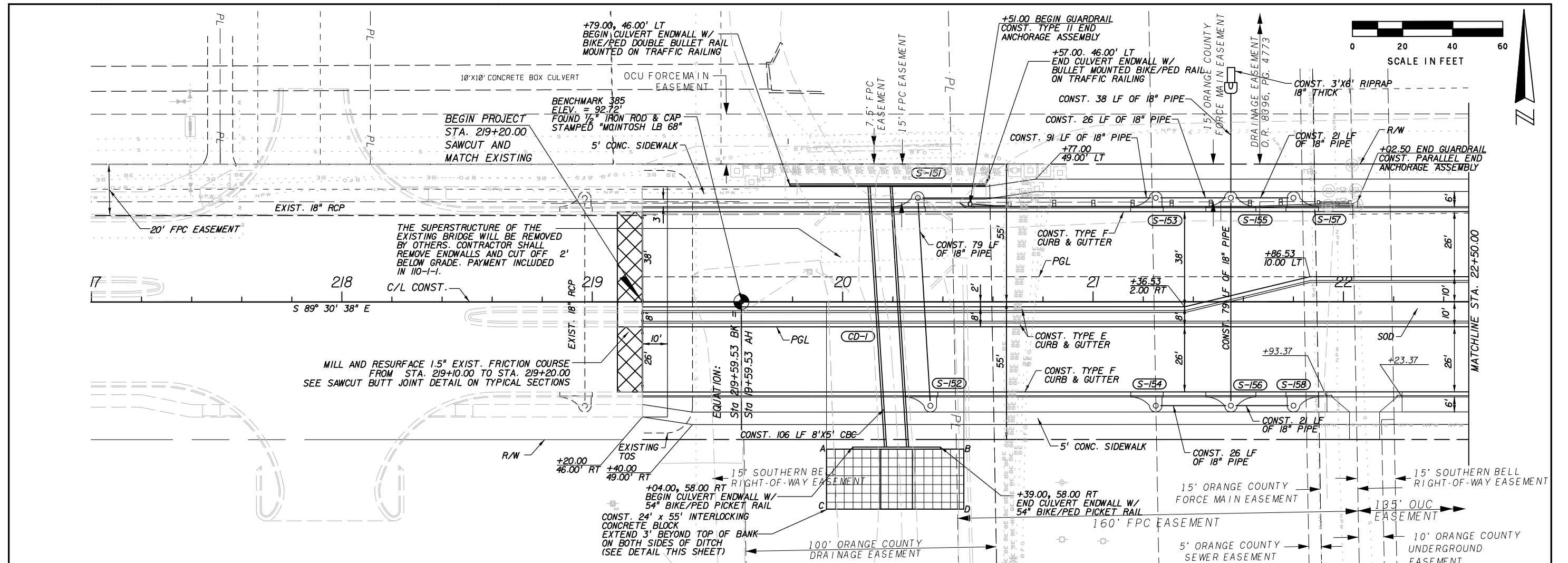
SURVEY CONTROL SHEET

SHEET NO.
14

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5/9/2016
11:16:20 AM

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
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GOVERNMENT
FLORIDA

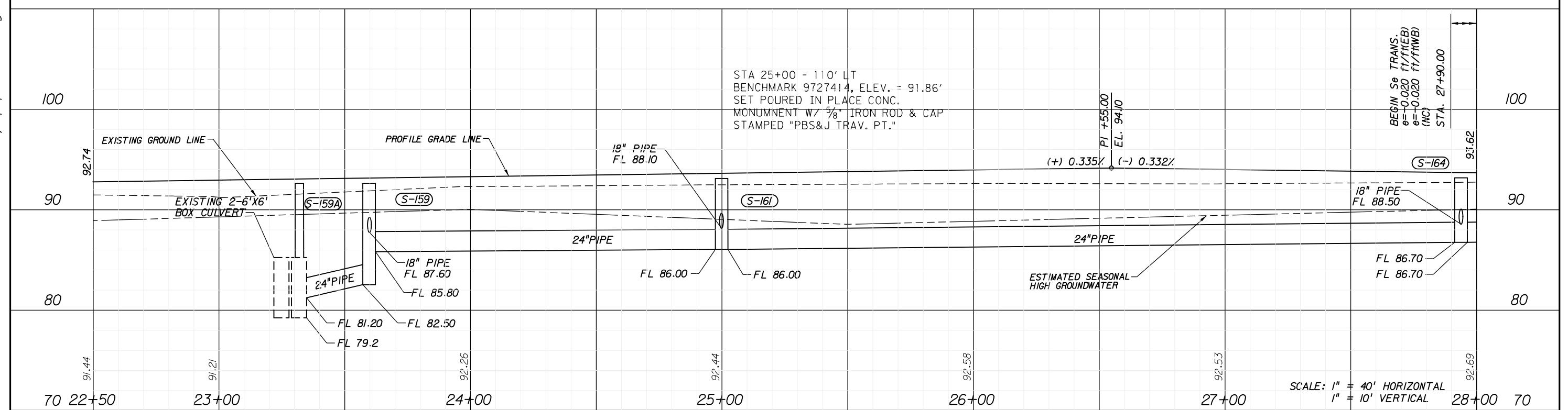
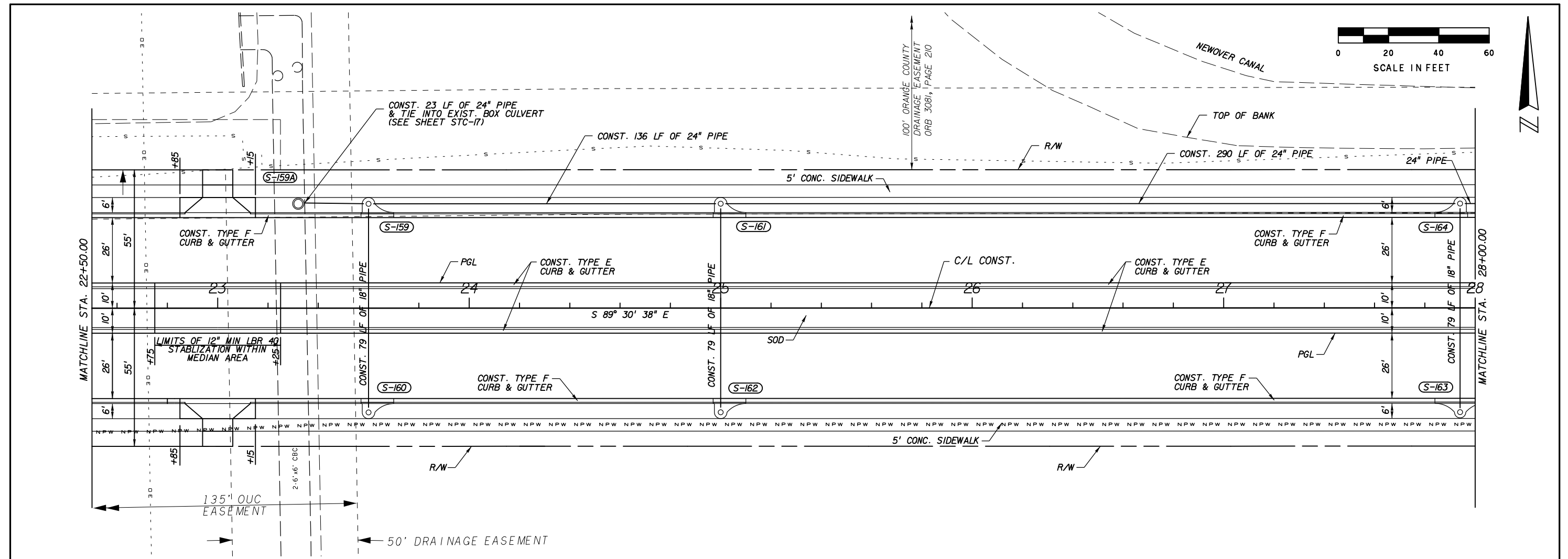
CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

ROADWAY PLAN AND PROFILE
219+20.00 TO 22+50.00

SHEET NO.
15

5/4/2016
11:41:41 AM

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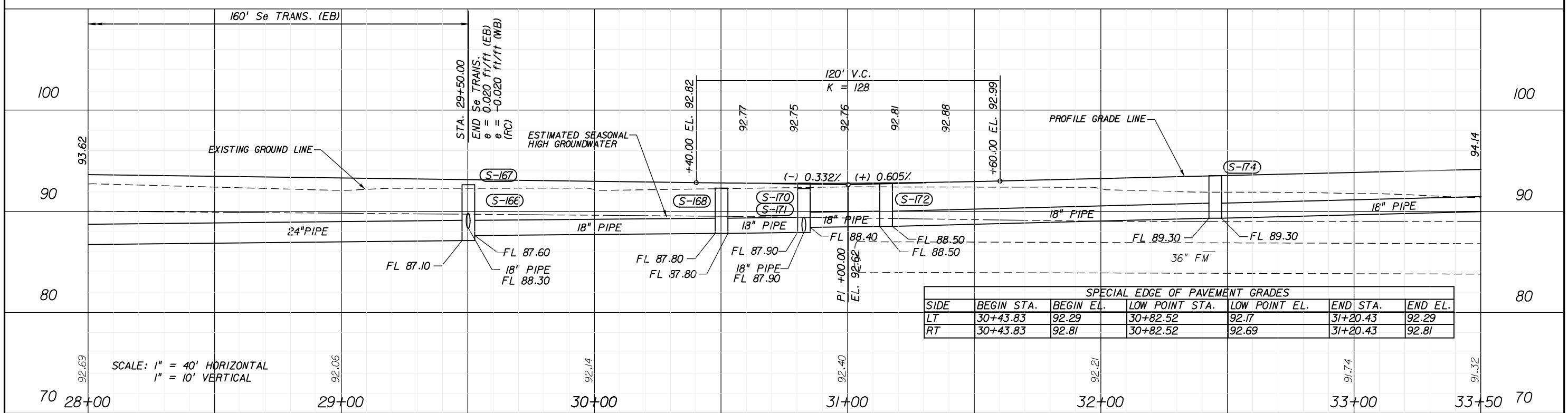
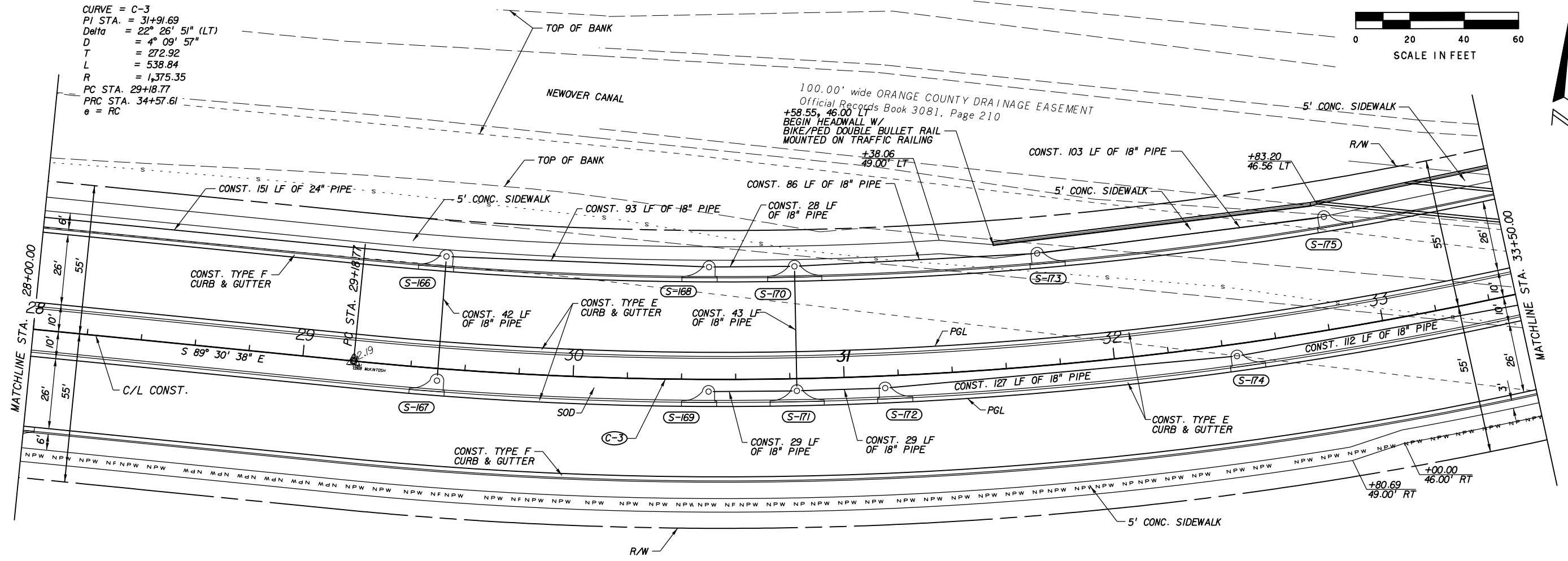
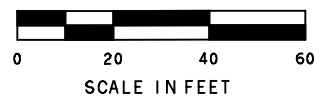


CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

ROADWAY PLAN AND PROFILE
22+50.00 TO 28+00.00

SHEET NO.
16

CURVE = C-3
 PI STA. = 31+91.69
 Delta = 22° 26' 51" (LT)
 D = 4° 09' 57"
 T = 272.92
 L = 538.84
 R = 1,375.35
 PC STA. 29+18.77
 PRC STA. 34+57.61
 e = RC



SPECIAL EDGE OF PAVEMENT GRADES						
SIDE	BEGIN STA.	BEGIN EL.	LOW POINT STA.	LOW POINT EL.	END STA.	END EL.
LT	30+43.83	92.29	30+82.52	92.17	31+20.43	92.29
RT	30+43.83	92.81	30+82.52	92.69	31+20.43	92.81

SCALE: 1" = 40' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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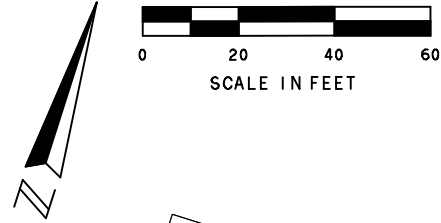


CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

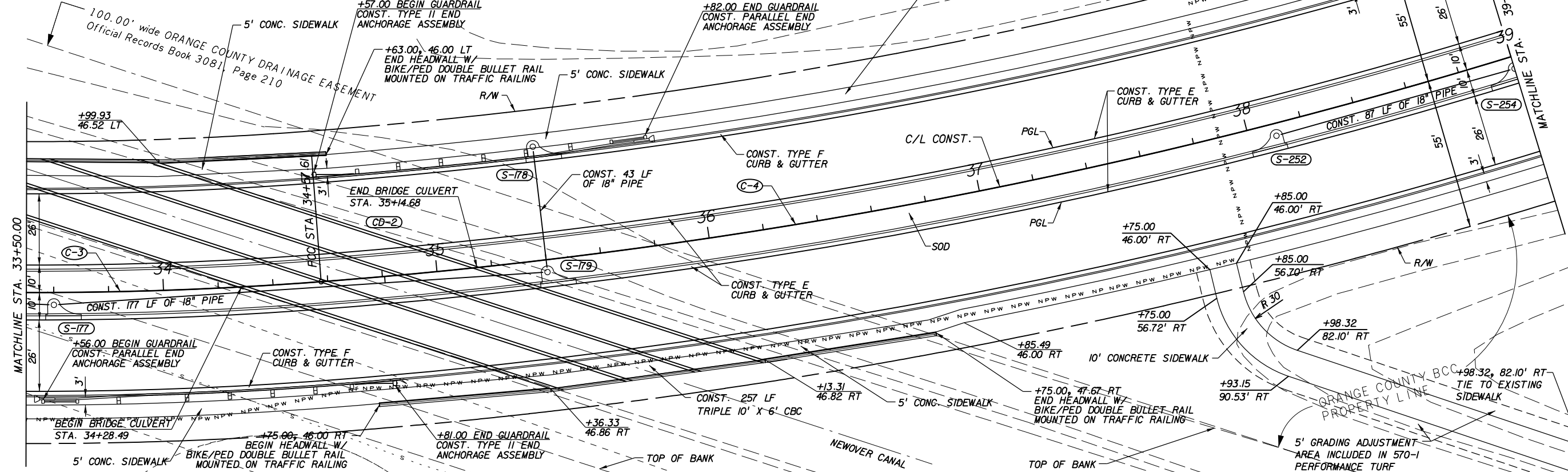
ROADWAY PLAN AND PROFILE
28+00.00 TO 33+50.00

SHEET NO.
 17

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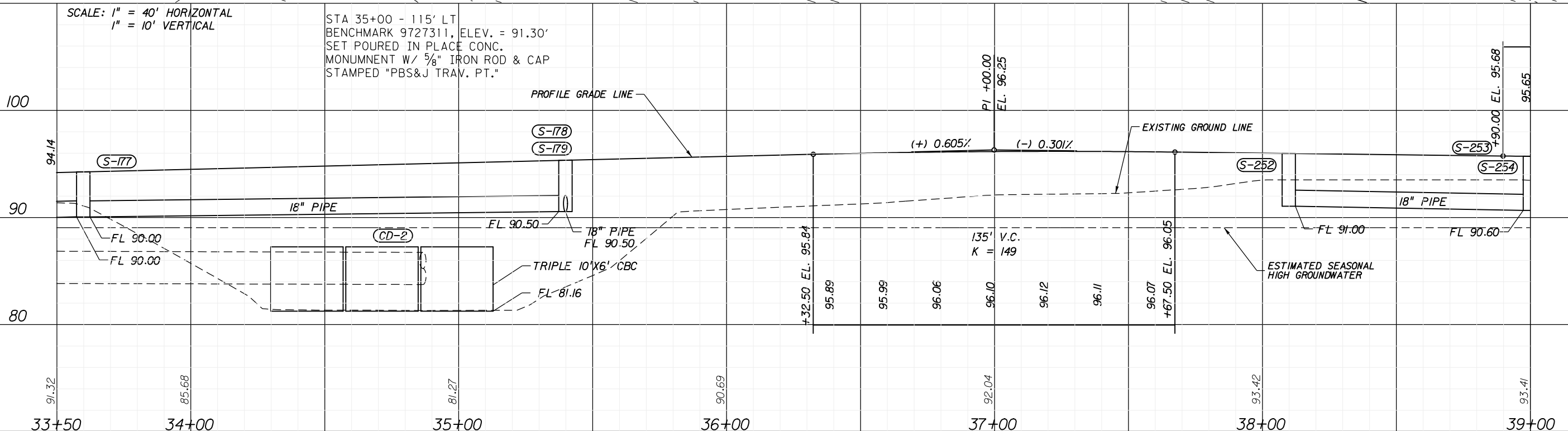


CURVE = C-4
 PI STA. = 39+22.51
 Delta = 26° 10' 20" (LT)
 D = 2° 51' 53"
 T = 464.91
 L = 913.59
 R = 2,000.00
 PRC STA. 34+57.61
 PT STA. 43+71.19
 e = RC



SCALE: 1" = 40' HORIZONTAL
 1" = 10' VERTICAL

STA 35+00 - 115' LT
 BENCHMARK 9727311, ELEV. = 91.30'
 SET POURED IN PLACE CONC.
 MONUMENT W/ 5/8" IRON ROD & CAP
 STAMPED "PBS&J TRAV. PT."



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
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 License No. 24

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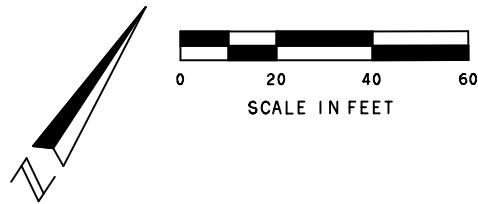


CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

ROADWAY PLAN AND PROFILE
33+50.00 TO 39+00.00

SHEET NO.
 18

5/4/2016 11:41:42 AM
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CURVE = C-4
 PI STA. = 39+22.51
 Delta = 26° 10' 20" (LT)
 D = 2° 51' 53"
 T = 464.91
 L = 913.59
 R = 2,000.00
 PRC STA. 34+57.61
 PT STA. 43+71.19
 e = RC

CONSTRUCT 10' CONCRETE SIDEWALK GRADED AND SLOPED PER DIRECTION OF OWNER'S REPRESENTATIVE (BRAD GOEB 407-948-7090)

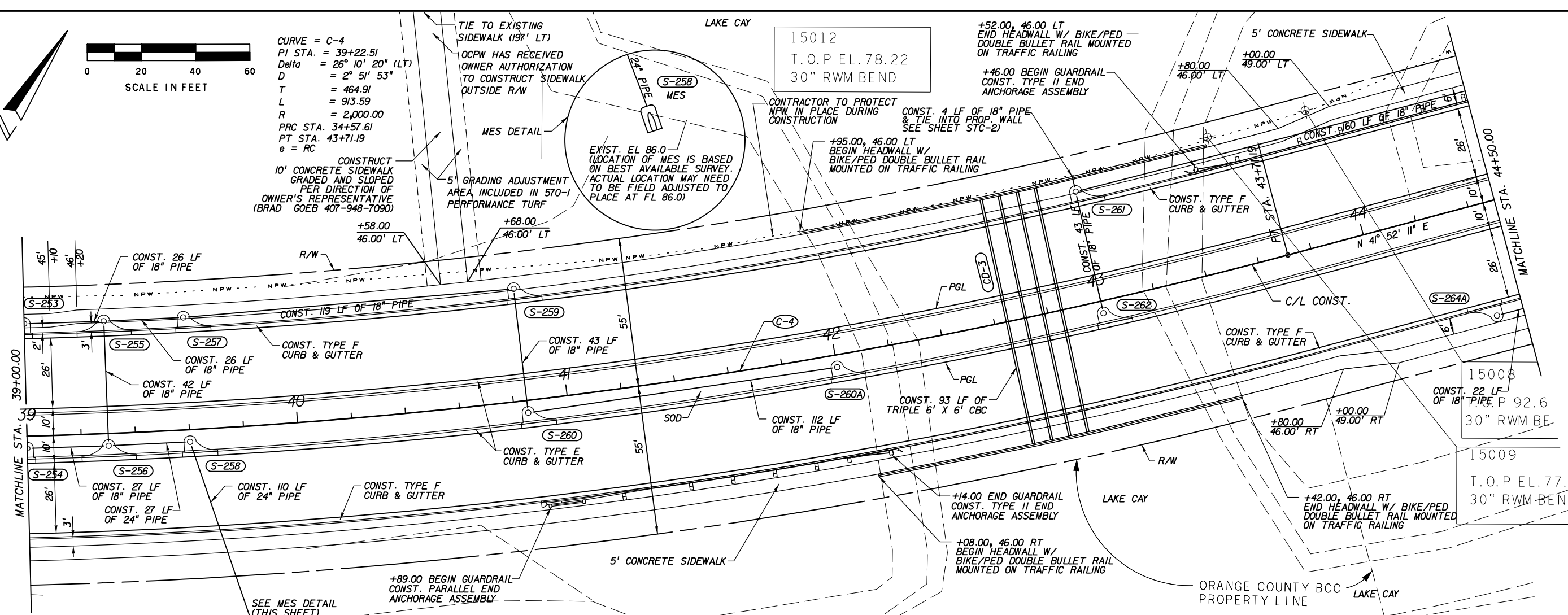
TIE TO EXISTING SIDEWALK (197' LT)
 OCPW HAS RECEIVED OWNER AUTHORIZATION TO CONSTRUCT SIDEWALK OUTSIDE R/W

MES DETAIL
 EXIST. EL 86.0
 (LOCATION OF MES IS BASED ON BEST AVAILABLE SURVEY. ACTUAL LOCATION MAY NEED TO BE FIELD ADJUSTED TO PLACE AT FL 86.0)

15012
 T.O.P EL. 78.22
 30" RWM BEND

+52.00, 46.00 LT END HEADWALL W/ BIKE/PED DOUBLE BULLET RAIL MOUNTED ON TRAFFIC RAILING
 +46.00 BEGIN GUARDRAIL CONST. TYPE II END ANCHORAGE ASSEMBLY

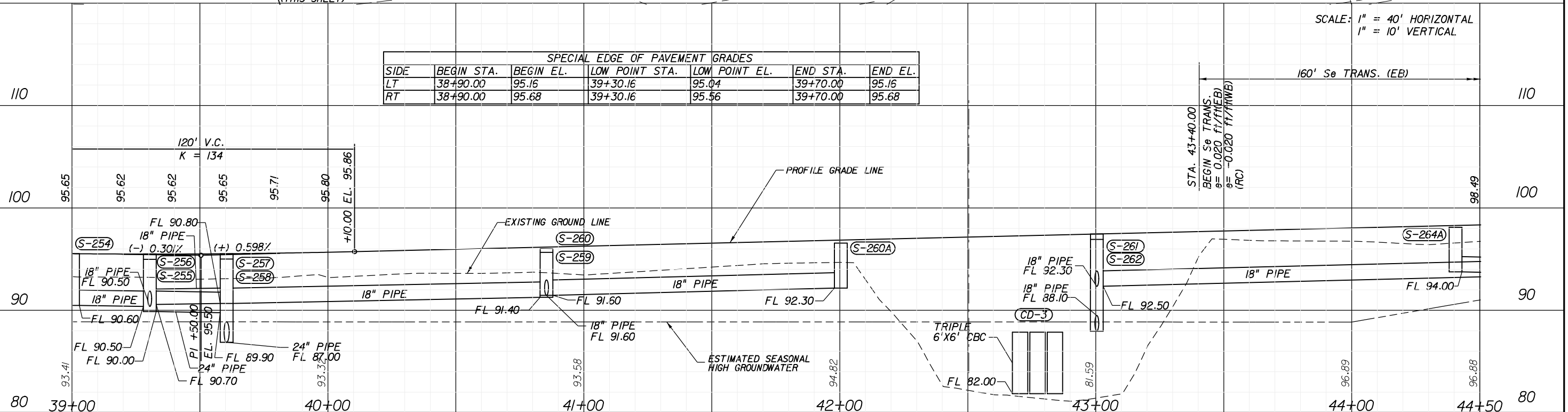
+80.00, 46.00 LT
 +00.00, 49.00 LT



SPECIAL EDGE OF PAVEMENT GRADES

SIDE	BEGIN STA.	BEGIN EL.	LOW POINT STA.	LOW POINT EL.	END STA.	END EL.
LT	38+90.00	95.16	39+30.16	95.04	39+70.00	95.16
RT	38+90.00	95.68	39+30.16	95.56	39+70.00	95.68

SCALE: 1" = 40' HORIZONTAL
 1" = 10' VERTICAL



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

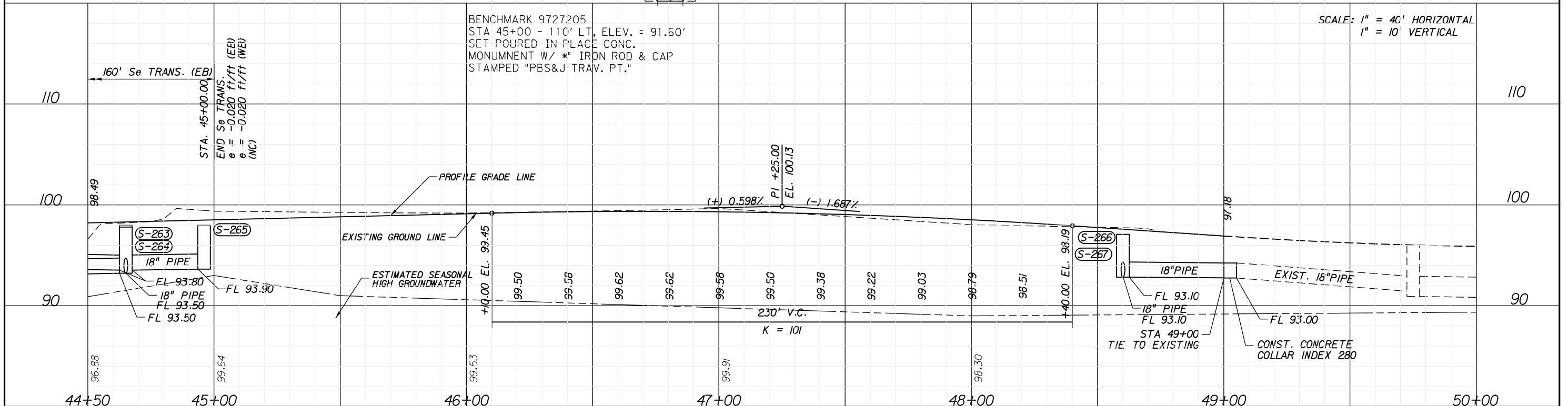
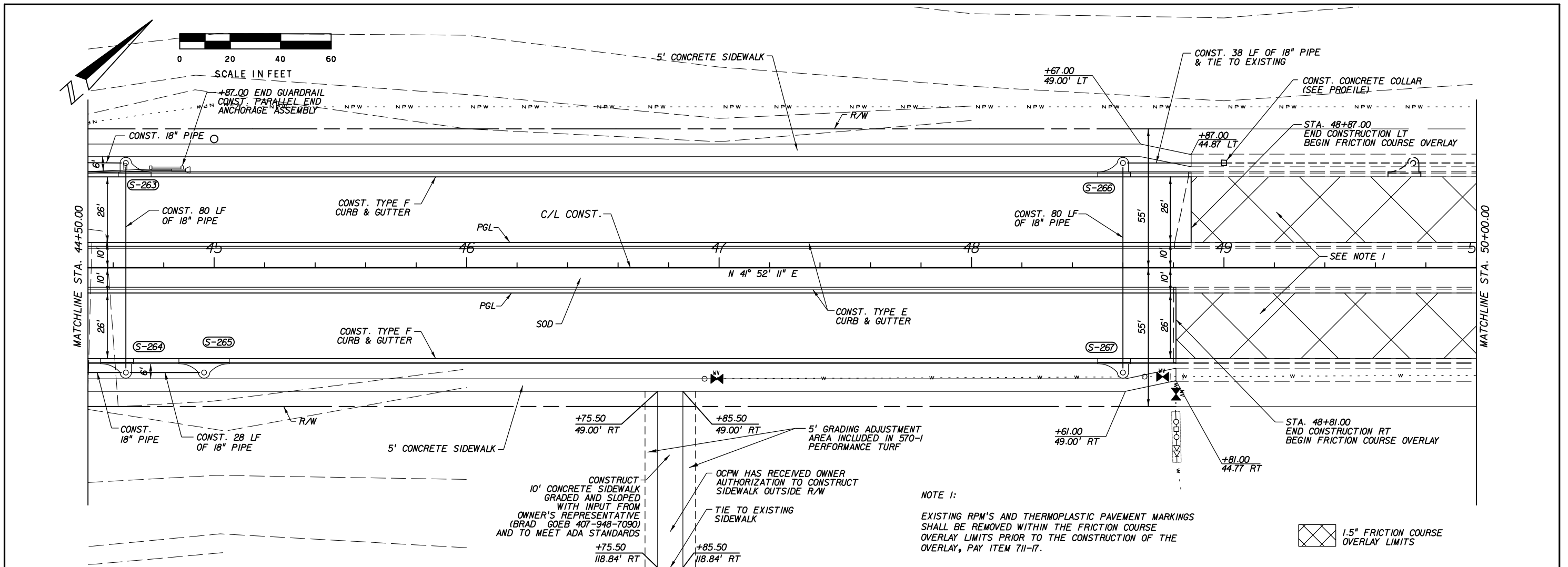
ROADWAY PLAN AND PROFILE
39+00.00 TO 44+50.00

SHEET NO.
 19

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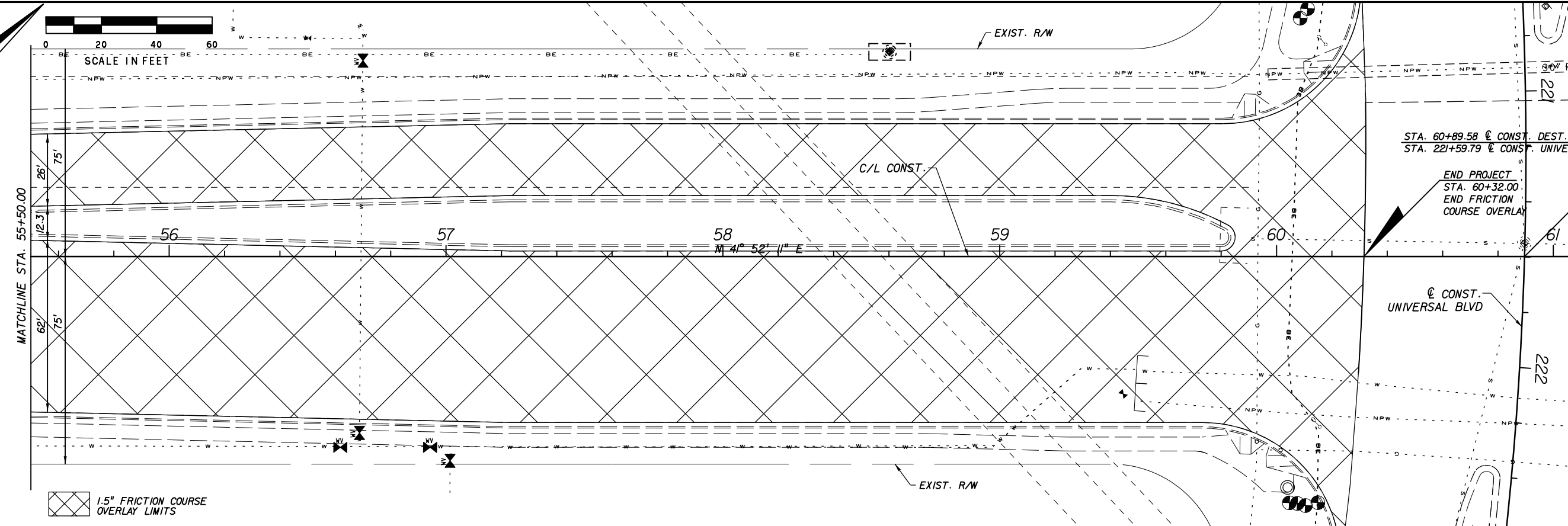
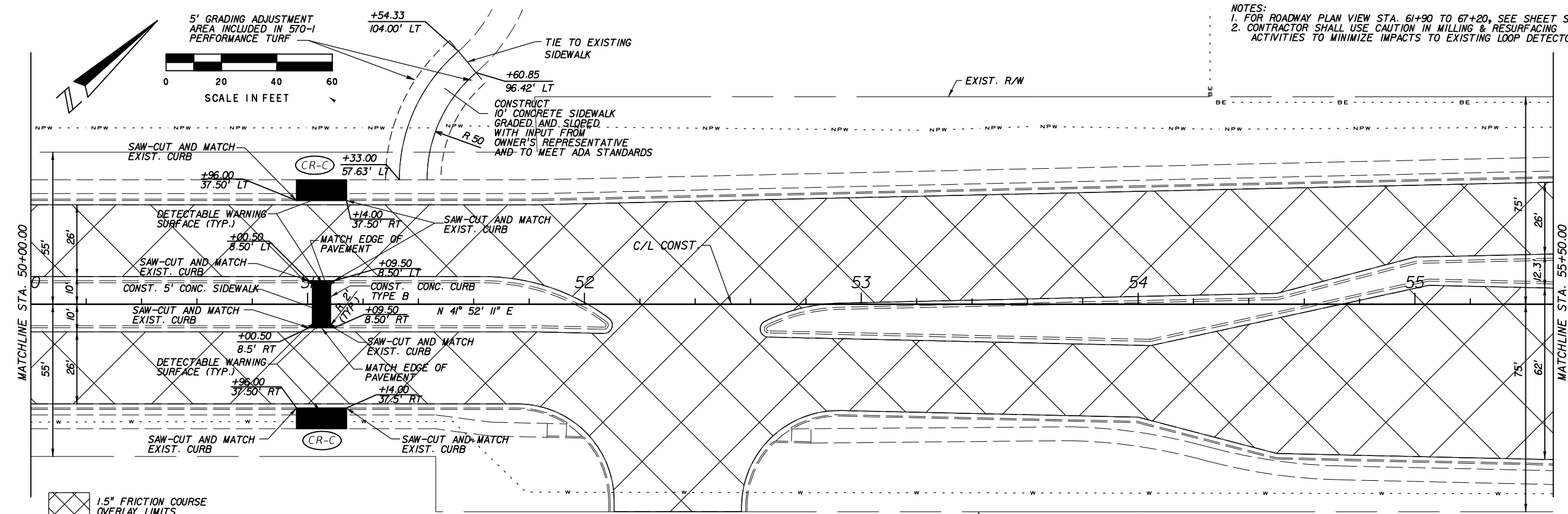


CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

ROADWAY PLAN AND PROFILE
44+50.00 TO 50+00.00

SHEET NO.
20

NOTES:
 1. FOR ROADWAY PLAN VIEW STA. 61+90 TO 67+20, SEE SHEET S-12.
 2. CONTRACTOR SHALL USE CAUTION IN MILLING & RESURFACING ACTIVITIES TO MINIMIZE IMPACTS TO EXISTING LOOP DETECTORS.



STA. 60+89.58 @ CONST. DEST. PKWY =
 STA. 221+59.79 @ CONST. UNIVERSAL BLVD

END PROJECT
 STA. 60+32.00
 END FRICTION
 COURSE OVERLAY

1.5\"/>

1.5\"/>

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REVISIONS					
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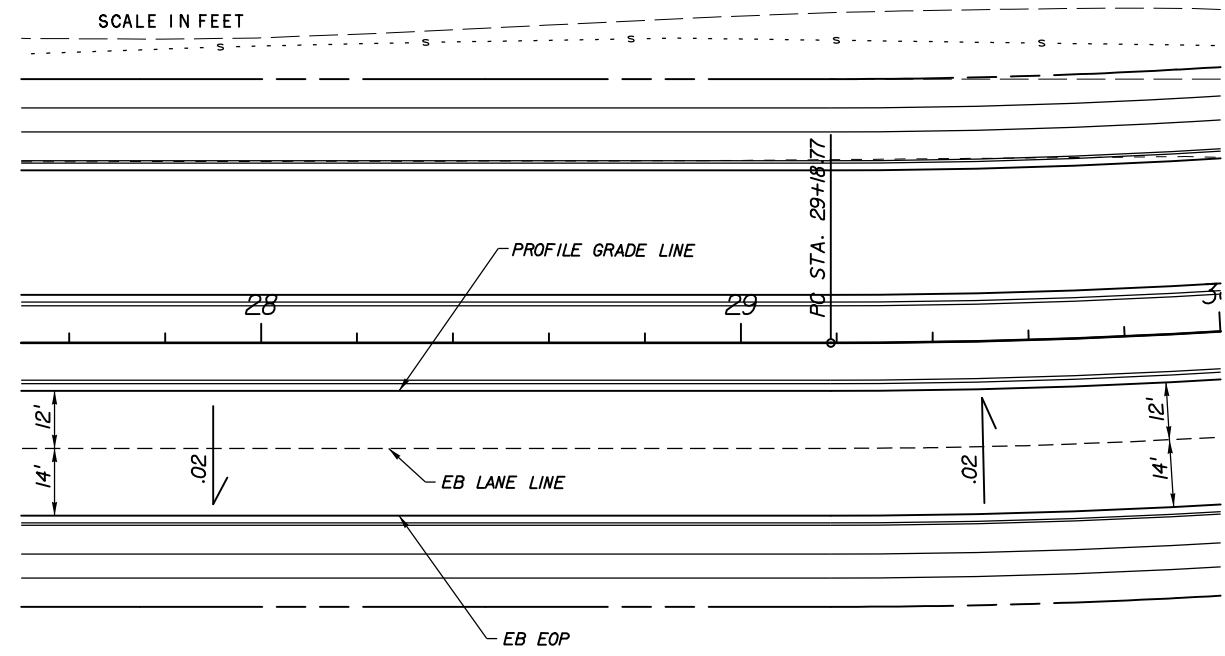


CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY

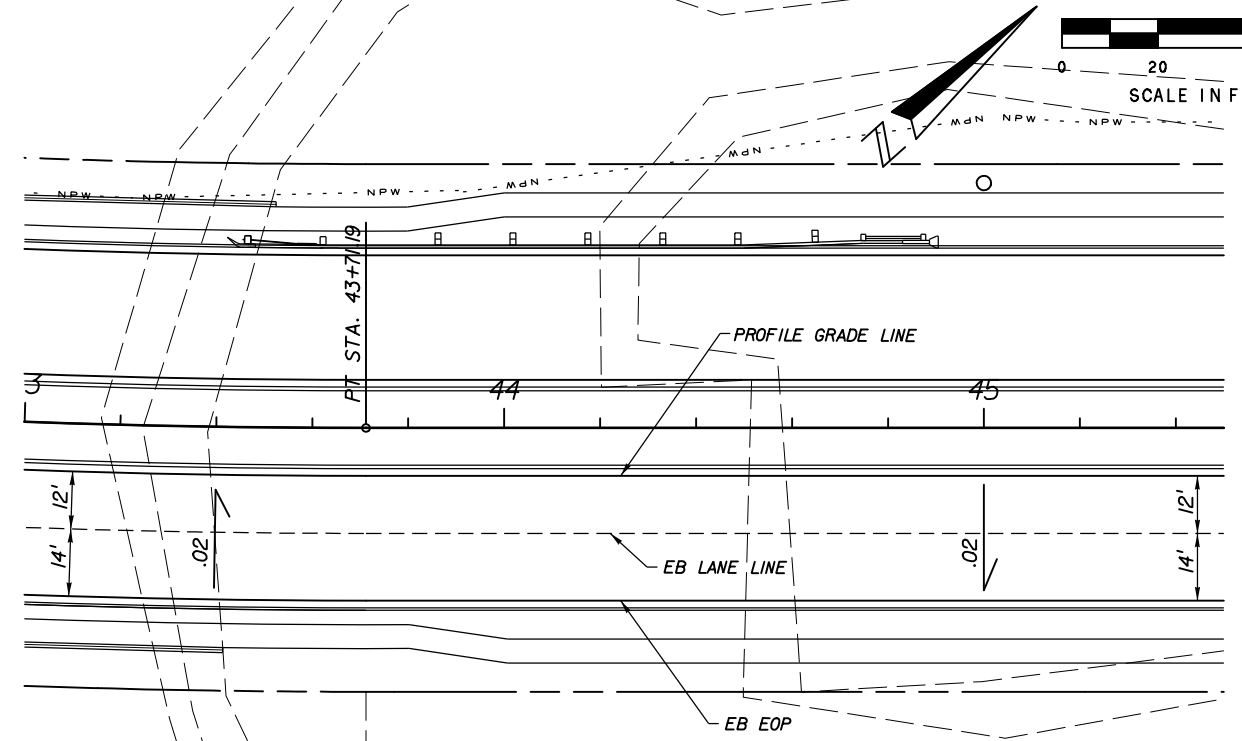
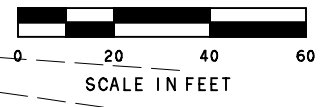
PROJ. NO. 5089 - SEC. 1B/2A

ROADWAY PLAN
50+00.00 TO 60+32.00

SHEET NO.
 21

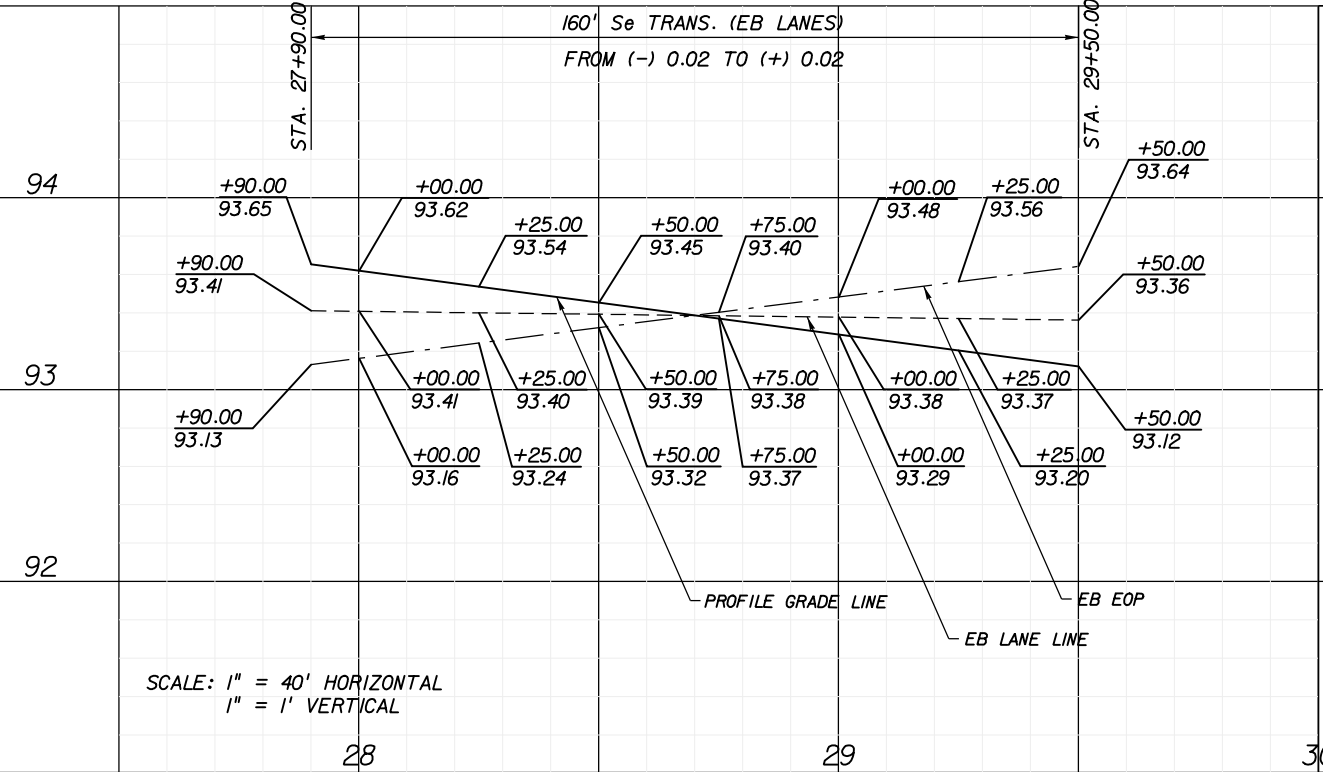


STATION	PGL EL	EB LANE LINE	EB EOP
+90.00	93.65	93.41	93.13
+00.00	93.62	93.41	93.16
+25.00	93.54	93.40	93.24
+50.00	93.45	93.39	93.32
+75.00	93.37	93.38	93.40
+00.00	93.29	93.38	93.48
+25.00	93.20	93.37	93.56
+50.00	93.12	93.36	93.64

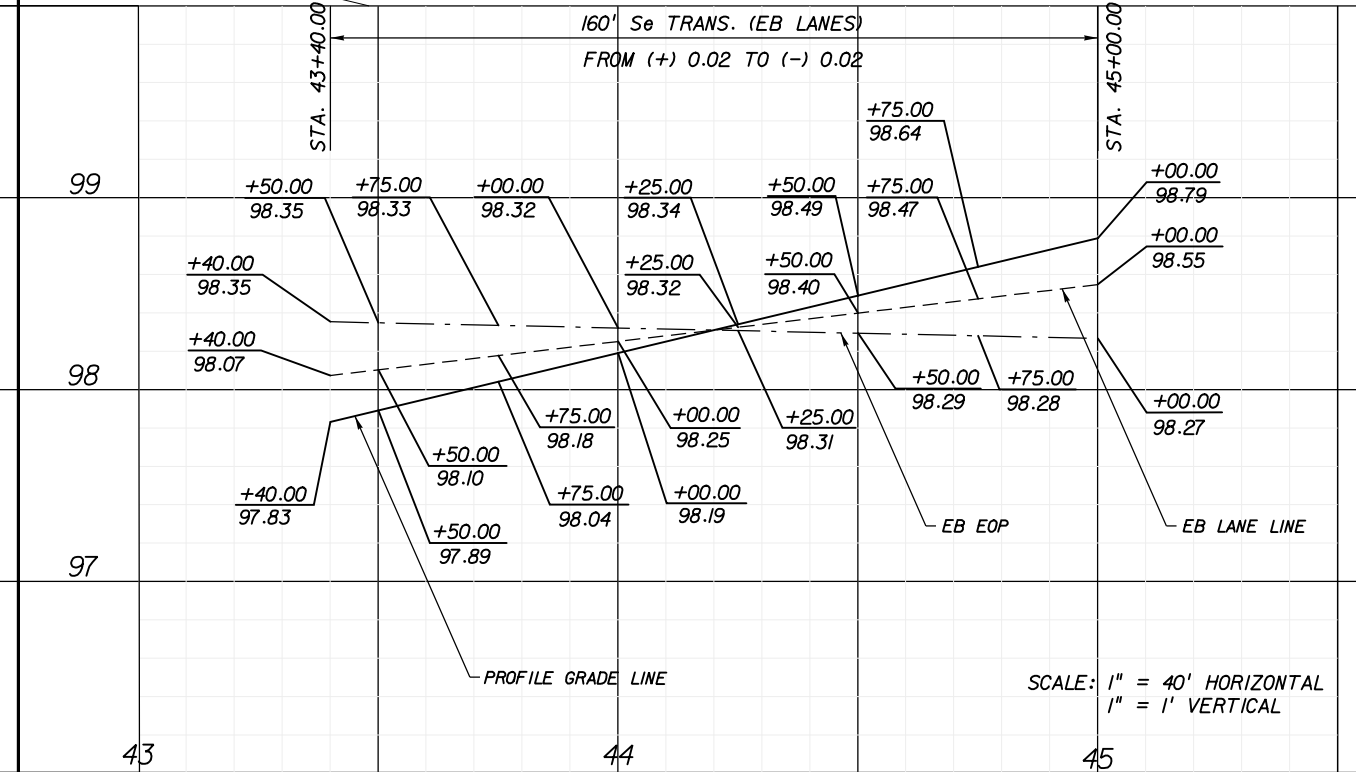


STATION	PGL EL	EB LANE LINE	EB EOP
+40.00	97.83	98.07	98.35
+50.00	97.89	98.10	98.35
+75.00	98.04	98.18	98.33
+00.00	98.19	98.25	98.32
+25.00	98.34	98.32	98.31
+50.00	98.49	98.40	98.29
+75.00	98.64	98.47	98.28
+00.00	98.79	98.55	98.27

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



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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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License No. 24

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CANADIAN COURT/
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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

**SUPERELEVATION
TRANSITION DETAILS**

SHEET NO.
22


5/4/2016 11:41:43 AM

5/4/2016 11:41:44 AM

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Structure No.	Station	Baseline	Location Reference		Structure			FDOT Index No.	Rim/Top Elev	EOP EL	Pipe Size	FLOW LINE ELEVATION				D/S Structure No.	Comments
			Offset	LT/RT	Top	Bottom	Size					(In)	AH	BK	LT		
(S-XXX)																	
151	20+30.00	CLC	37.50	LT	1	P		200, 201, 210		92.29	18	87.40		87.40	S-153		
152	20+35.00	CLC	37.50	RT	1	P		200, 201, 210		92.27	18		87.60		S-151		
153	21+25.00	CLC	37.50	LT	1	P		200, 201, 210		92.00	18	87.20	87.20		S-155		
154	21+25.00	CLC	37.50	RT	1	P		200, 201, 210		92.00	18	87.40			S-156		
155	21+55.00	CLC	37.50	LT	2	P		200, 201, 210		91.91	18	87.10	87.10	82.00	87.10	S-155 MES	
155 MES	21+55.00	CLC	85.00	LT	MES (1:2)			272			18				81.50		
156	21+55.00	CLC	37.50	RT	2	P		200, 201, 210		91.91	18	87.30	87.30	87.30		S-155	
157	21+80.00	CLC	37.50	LT	1	P		200, 201, 210		91.99	18		87.20			S-155	
158	21+80.00	CLC	37.50	RT	1	P		200, 201, 210		91.99	18		87.40			S-156	
159	23+60.00	CLC	37.50	LT	1	P		200, 201, 210		92.60	24	85.80	82.50		87.60	Box Culvert	
159A	23+32.00	CLC	41.50	LT	MH	P		200, 201		93.50						Box Culvert	SPECIAL MANHOLE TOP ON EXIST CBO
160	23+60.00	CLC	37.50	RT	1	P		200, 201, 210		92.60	18			87.80		S-159	
161	25+00.00	CLC	37.50	LT	1	P		200, 201, 210		93.07	24	86.00	86.00		88.10	S-159	
162	25+00.00	CLC	37.50	RT	1	P		200, 201, 210		93.07	18			88.30		S-161	
163	27+94.00	CLC	37.50	RT	2	P		200, 201, 210		93.12	18			88.80		S-164	
164	27+94.00	CLC	37.50	LT	1	P		200, 201, 210		93.12	24	86.70	86.70		88.50	S-161	
166	29+50.00	CLC	37.50	LT	1	P		200, 201, 210		92.61	24	87.60	87.10		88.30	S-164	
167	29+50.00	CLC	8.50	RT	1	P		200, 201, 210		93.13	18			88.80		S-166	
168	30+50.00	CLC	37.50	LT	1	P		200, 201, 210		92.27	18	87.80	87.80			S-166	
169	30+50.00	CLC	8.50	RT	1	P		200, 201, 210		92.79	18	88.50				S-171	
170	30+82.50	CLC	37.50	LT	2	P		200, 201, 210		92.17	18	88.50	87.90		87.90	S-168	
171	30+82.50	CLC	8.50	RT	2	P		200, 201, 210		92.69	18	88.40	88.40	88.40		S-170	
172	31+15.00	CLC	8.50	RT	1	P		200, 201, 210		92.79	18	88.50	88.50			S-171	
173	31+75.00	CLC	37.50	LT	1	P		200, 201, 210		92.56	18	88.80	88.80			S-170	
174	32+45.00	CLC	8.50	RT	1	P		200, 201, 210		93.50	18	89.30	89.30			S-172	
175	32+85.00	CLC	37.50	LT	1	P		200, 201, 210		93.23	18		89.00			S-173	
177	33+60.00	CLC	8.50	RT	1	P		200, 201, 210		94.20	18	90.00	90.00			S-174	
178	35+40.00	CLC	37.50	LT	1	P		200, 201, 210		94.77	18				90.60	S-179	
179	35+40.00	CLC	8.50	RT	1	P		200, 201, 210		95.29	18		90.50	90.50		S-177	
252	38+10.00	CLC	8.50	RT	1	P		200, 201, 210		95.93	18	91.00				S-254	
253	39+00.00	CLC	37.50	LT	1	P		200, 201, 210		95.13	18	90.80				S-255	
254	39+00.00	CLC	8.50	RT	1	P		200, 201, 210		95.65	18	90.60	90.60			S-256	
255	39+30.00	CLC	37.50	LT	2	P		200, 201, 210		95.04	18	90.70	90.70		90.70	S-256	
256	39+30.00	CLC	8.50	RT	2	P		200, 201, 210		95.56	24	90.00	90.50	90.50		S-258	
257	39+60.00	CLC	37.50	LT	1	P		200, 201, 210		95.13	18	90.80	90.80			S-255	
258	39+60.00	CLC	8.50	RT	1	P		200, 201, 210		95.65	24		89.90		87.00	S-258 MES	
258 MES	39+89.75	CLC	116.32	RT	MES (1:4)			272			24			86.00			
259	40+85.00	CLC	37.50	LT	1	P		200, 201, 210		95.79	18		91.40		91.40	S-257	
260	40+85.00	CLC	8.50	RT	1	P		200, 201, 210		96.31	18	91.60		91.60		S-259	
260A	42+00.00	CLC	8.50	RT	1	P		200, 201, 210		96.99	18		92.30			S-260	
261	43+00.00	CLC	37.50	LT	1	P		200, 201, 210		97.07	18	92.50		88.10	92.50	WALL	INV = 88.00 AT WALL
262	43+00.00	CLC	8.50	RT	1	P		200, 201, 210		97.59	18			92.60		S-262	
263	44+65.00	CLC	37.50	LT	1	P		200, 201, 210		98.06	18		93.50		93.50	S-261	
264	44+65.00	CLC	37.50	RT	1	P		200, 201, 210		98.27	18	93.80	93.80	93.80		S-263	
264A	44+40.00	CLC	37.50	RT	1	P		200, 201, 210		98.30	18	94.00				S-264	
265	44+96.00	CLC	37.50	RT	2	P		200, 201, 210		98.25	18		93.90			S-264	
266	48+60.00	CLC	37.50	LT	1	P		200, 201, 210		97.34	18	93.10			93.10	EX-215	
267	48+60.00	CLC	37.50	RT	1	P		200, 201, 210		97.34	18			93.30		S-266	

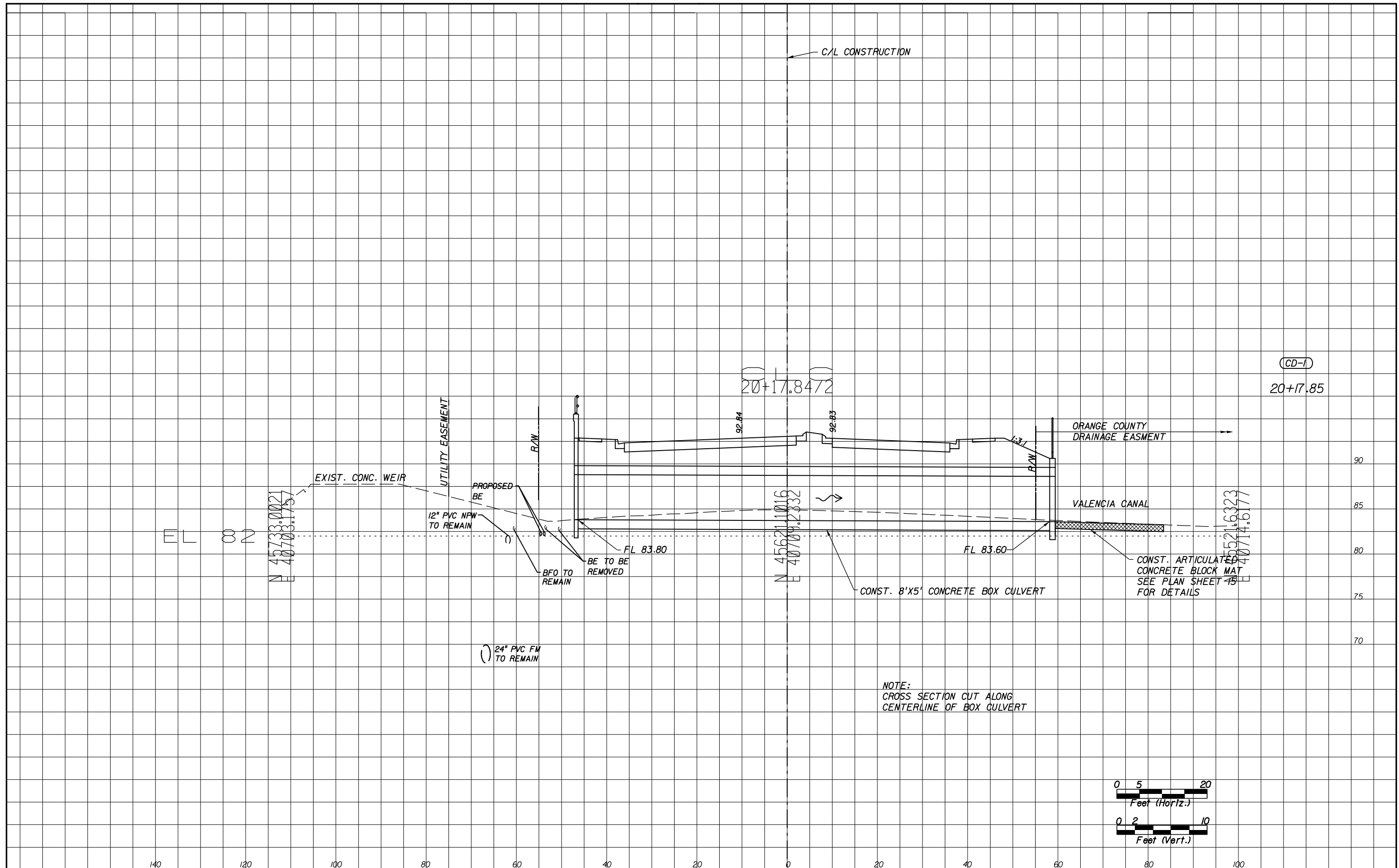
NOTE:
 DRAINAGE STRUCTURE OFFSETS SHOWN IN THE PLANS FOR CURB INLETS ARE TO FACE OF CURB. STATIONS AND OFFSETS FOR MITERED END SECTIONS ARE TO THE POINT LABELED "LOCATION REFERENCE" IN FDOT INDEXES 272 AND 273. STATION AND OFFSET TO ALL OTHER STRUCTURES ARE TO THE CENTER OF THE STRUCTURE.

REVISIONS						Engineer of Record: AMY L. WOOLEY P.E. #56796 	CANADIAN COURT/ JOHN YOUNG PARKWAY CONNECTOR ROADWAY PROJ. NO. 5089 - SEC. 1B/2A	DRAINAGE STRUCTURE TABLES	SHEET NO. 23
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				

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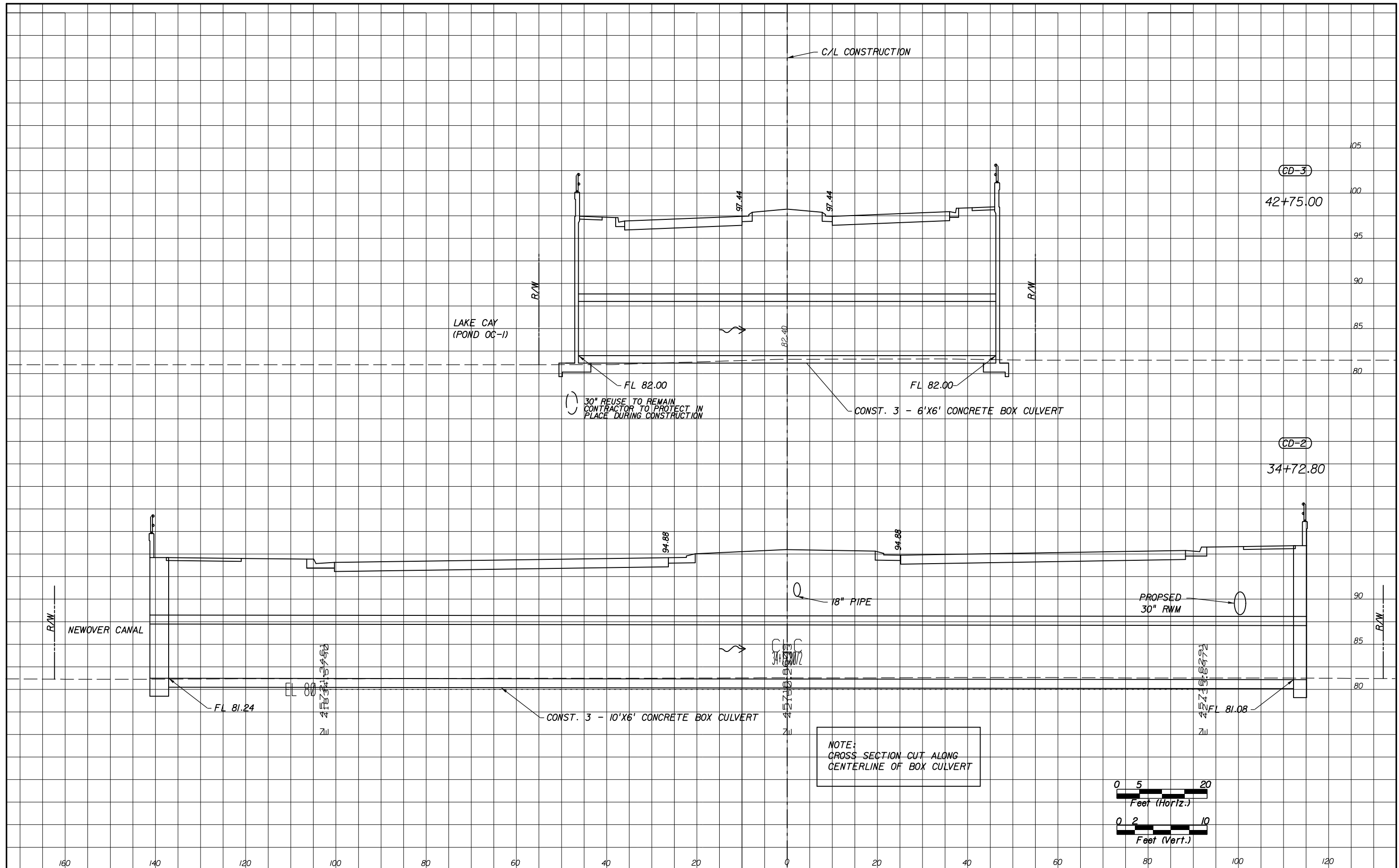
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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1A/2B

**DRAINAGE STRUCTURE
CROSS SECTIONS**

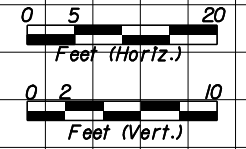
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24

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NOTE:
GROSS SECTION CUT ALONG
CENTERLINE OF BOX CULVERT



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**DRAINAGE STRUCTURE
CROSS SECTIONS**

SHEET NO.
25

MATERIALS AND RESEARCH CROSS SECTION
OF SOIL SURVEY REPORT OF TESTS

ROAD No: CANADIAN COURT EXTENSION
DISTRICT No: -
SUBMITTED BY: JAY W. CASPER, P.E. AND
SHENNA L. McMASTER, P.E.

DATE OF SURVEY: JULY 2004 TO FEBRUARY 2006
SURVEYED BY: -
SURVEY BEGINS: 20+00
SURVEY ENDS: 49+00
DATE REPORTED: JULY 2008

MECHANICAL ANALYSIS

CONSTANTS MATERIAL
PASS No. 40 SIEVE

SUBSTRUCTURE
ENVIRONMENTAL
CLASSIFICATION

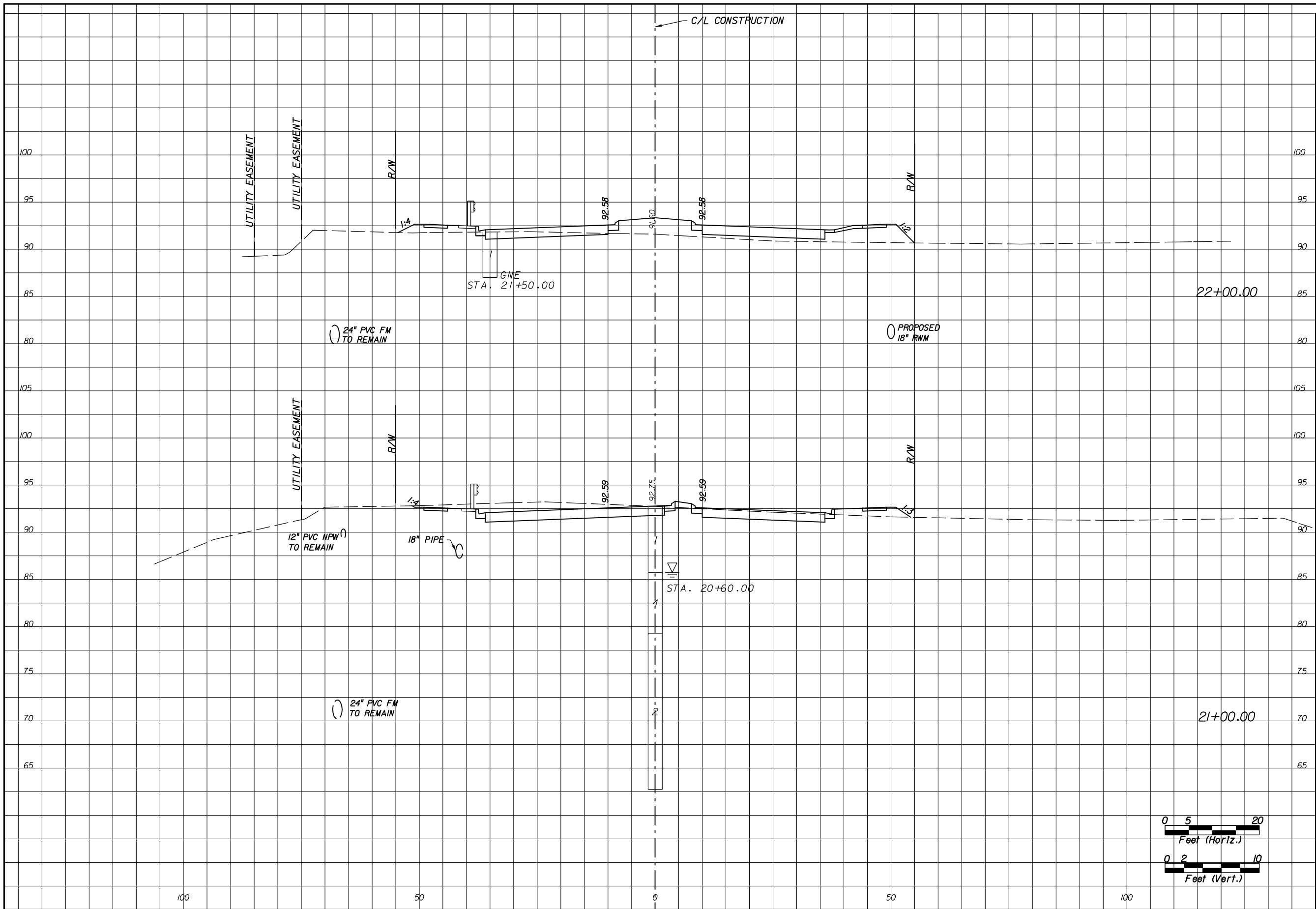
STRATUM No.	LBR VALUE	% PASSING 10 MESH	% PASSING 40 MESH	% PASSING 60 MESH	% PASSING 100 MESH	% PASSING 200 MESH	LIQUID LIMIT	PLASTICITY INDEX	ORGANIC CONTENT	No. LBR TESTS	No. GRAD. TESTS	No. LL-PI TESTS	No. ORGANIC CONTENT TESTS	CLASS GROUP	MATERIAL DESCRIPTION	pH	RESISTIVITY OHM-CM	CHLORIDES PPM	SULFATES PPM	CONCRETE	STEEL
1	-	-	-	-	-	8	-	-	-	-	1 (-200)	-	-	(A-3)	LIGHT GRAYISH-BROWN TO DARK BROWN FINE SAND AND SLIGHTLY SILTY FINE SAND WITH OCCASIONAL ROCKS (TOP 1 TO 2 FEET)	5.6-6.3	17000-21000	60	<5-15	MODERATELY AGGRESSIVE	EXTREMELY AGGRESSIVE
2	-	100	99-100	94-96	62-67	11-22	NP	NP	-	-	3 (FULL) 3 (-200)	2	-	(A-2-4)	LIGHT GRAYISH-BROWN, DARK BROWN AND REDDISH-BROWN SILTY FINE SAND	-	-	-	-	-	-
4	-	100	100	98	72	27	30	13	-	-	1 (FULL)	1	-	(A-2-6)	GRAYISH-BROWN AND GRAYISH-GREEN CLAYEY FINE SAND AND SILTY CLAYEY SAND	-	-	-	-	-	-
6	-	-	-	-	-	59	37	13	-	-	1 (-200)	1	-	(A-6)	GREENISH-GRAY CLAY AND SANDY CLAY	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	(A-7-5)	GRAYISH-BROWN AND GRAYISH-GREEN CLAYEY SAND TO SANDY CLAY	-	-	-	-	-	-

- NOTES:
- 1) STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. ANY STRATUM CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ARTICLE 2-4. FOR FURTHER DETAILS SEE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ARTICLE 120-3.
 - 2) WATER TABLE SHOWN AS ▼ WHERE ENCOUNTERED AT TIME OF SURVEY. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE".
 - 3) REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX No. 500 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE SHOWN ON PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX No. 505 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
 - 4) SOIL ANALYSIS INCLUDES DATA FROM TOP 25 FEET OF THE ROADWAY AREAS.
 - 5) THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
 - 6) THE SYMBOL "NP" REPRESENTS NON-PLASTIC.
 - 7) STRATUM 1 CAN BE CLASSIFIED AS SELECT (S).
 - 8) STRATUM 2 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.
 - 9) STRATA 4, 6, AND 7 MAY BE CLASSIFIED AS PLASTIC (P).
 - 10) STRATA 3 AND 5 WERE NOT ENCOUNTERED FOR BORINGS IN THIS SECTION.

REVISIONS						Names		Dates		SHEET TITLE:			SHEET No.	
Date	By	Description	Date	By	Description	Drawn by	Checked by	Designed by	Checked by	Approved by	ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	
						MG	SM			SHENNA McMASTER, P.E.	-	ORANGE	-	
 <p>1675 LEE ROAD WINTER PARK, FLORIDA 32789 (407) 740-6110 CERTIFICATE OF AUTHORIZATION No. 6174 SHENNA McMASTER, P.E. No. 57537</p>											ROADWAY SOIL SURVEY			26
											CANADIAN COURT EXTENSION SECTION 1B/2A ORANGE COUNTY, FLORIDA			

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
			13	74	
			199	156	
			94	11	
			175	555	



REVISIONS					
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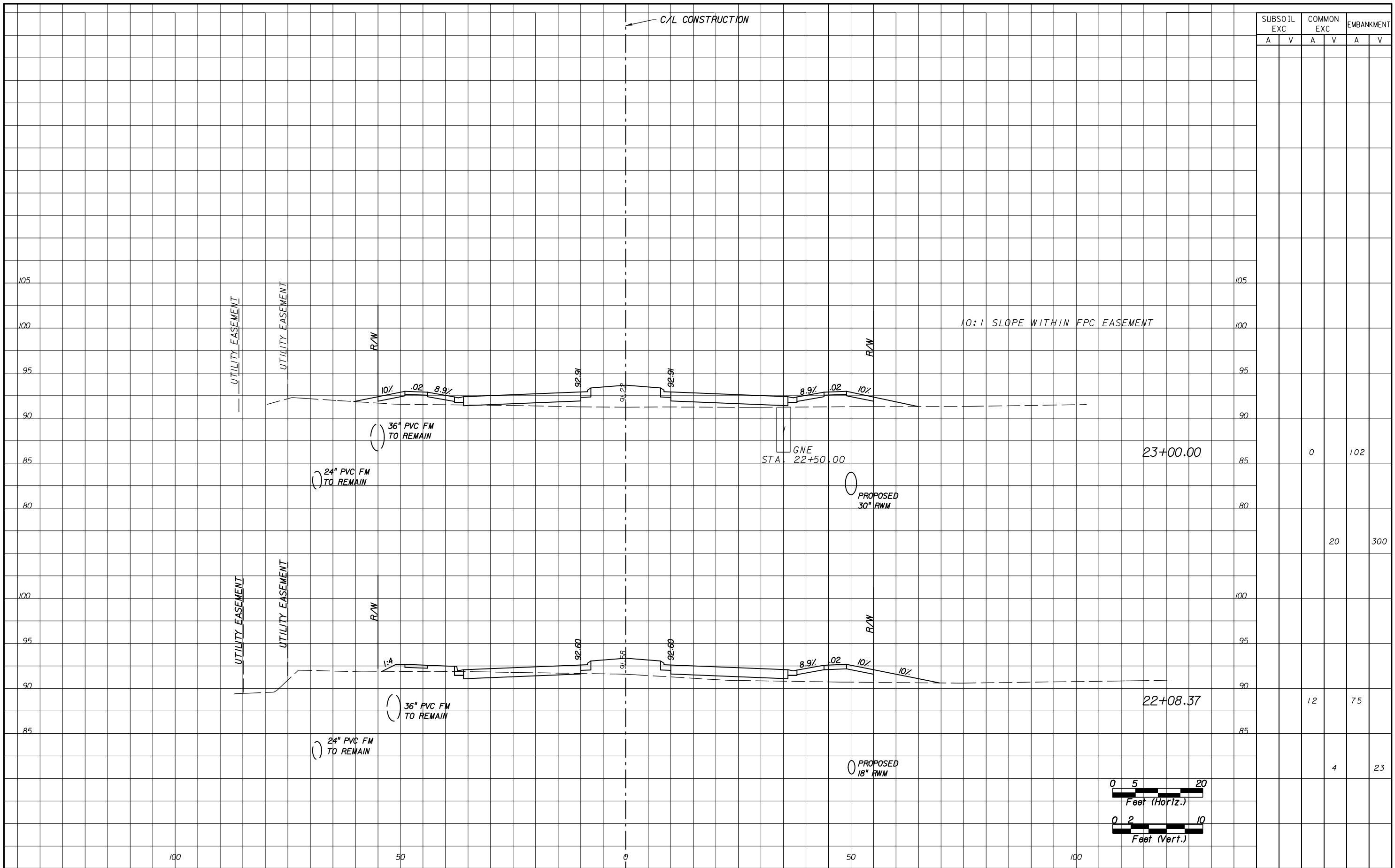


CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. N05089 - SEC. 1B/2A

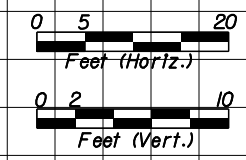
CROSS SECTIONS
 SHEET NO. 28

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
		0		102	
			20		300
		12		75	
			4		23



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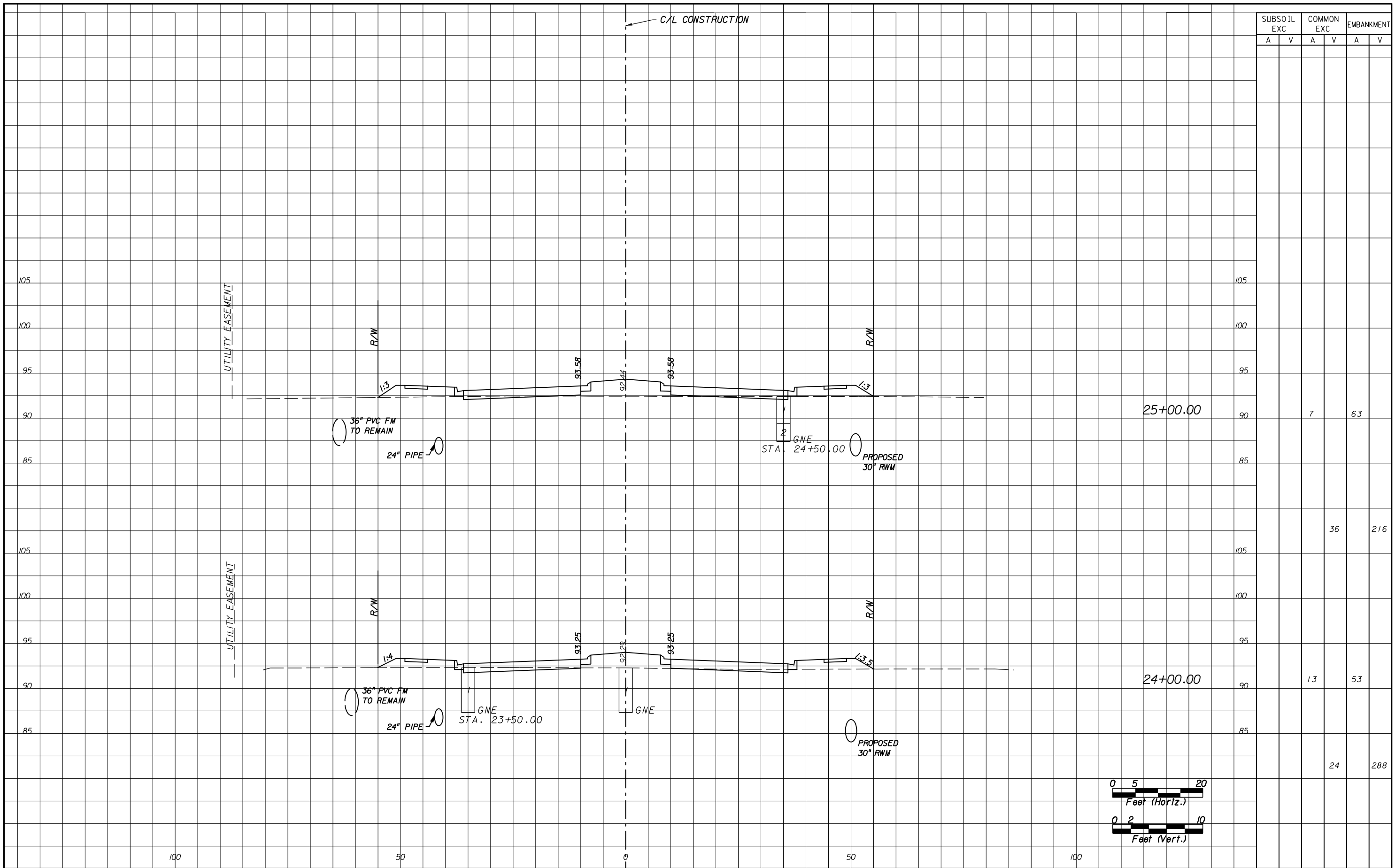
CANADIAN COURT/
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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

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29

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
		7		63	
			36		216
			13		53
			24		288



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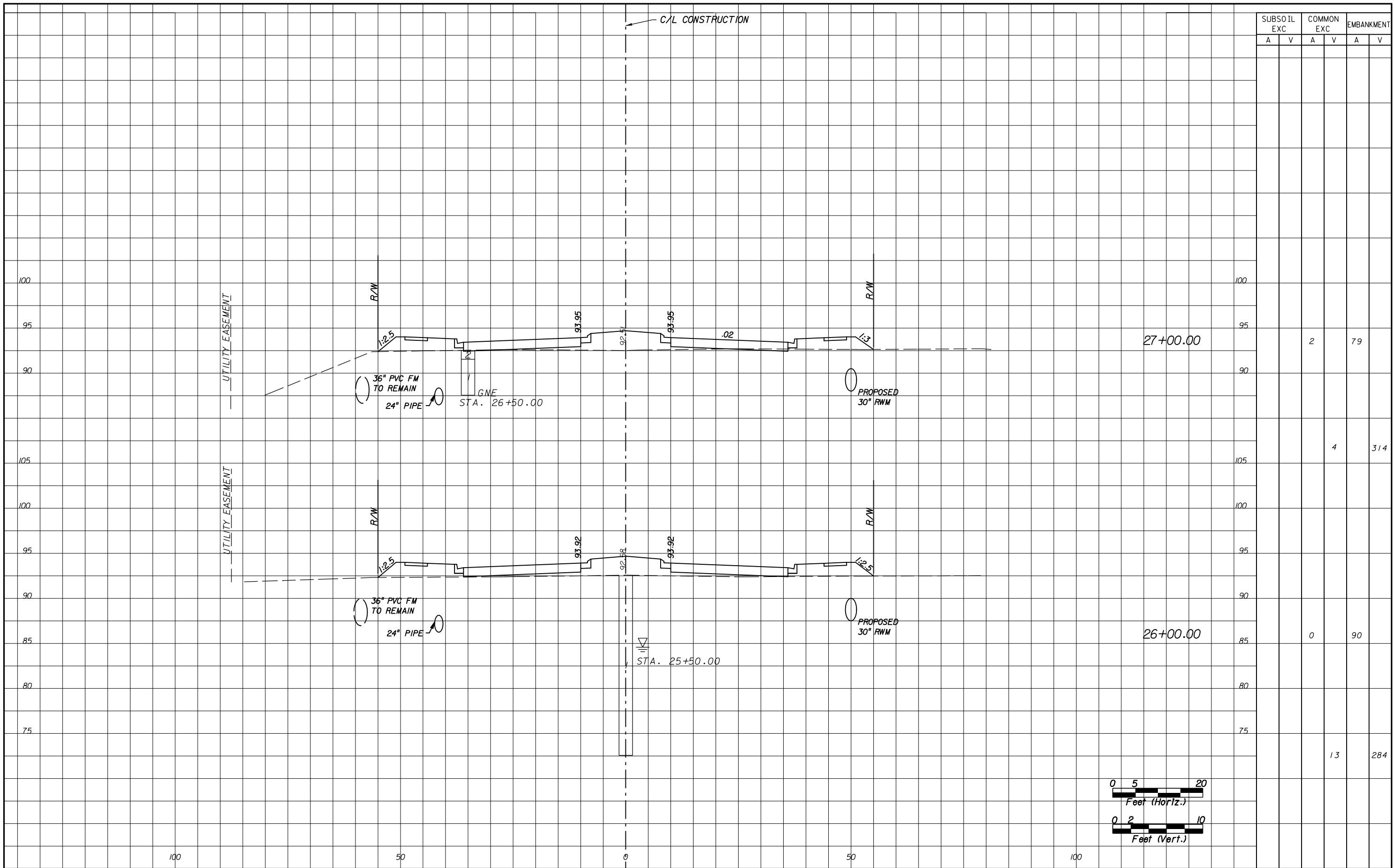
CANADIAN COURT/
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 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

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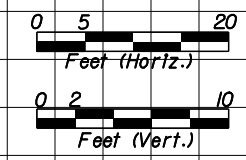
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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
			2		79
			4		314
			0		90
				13	284



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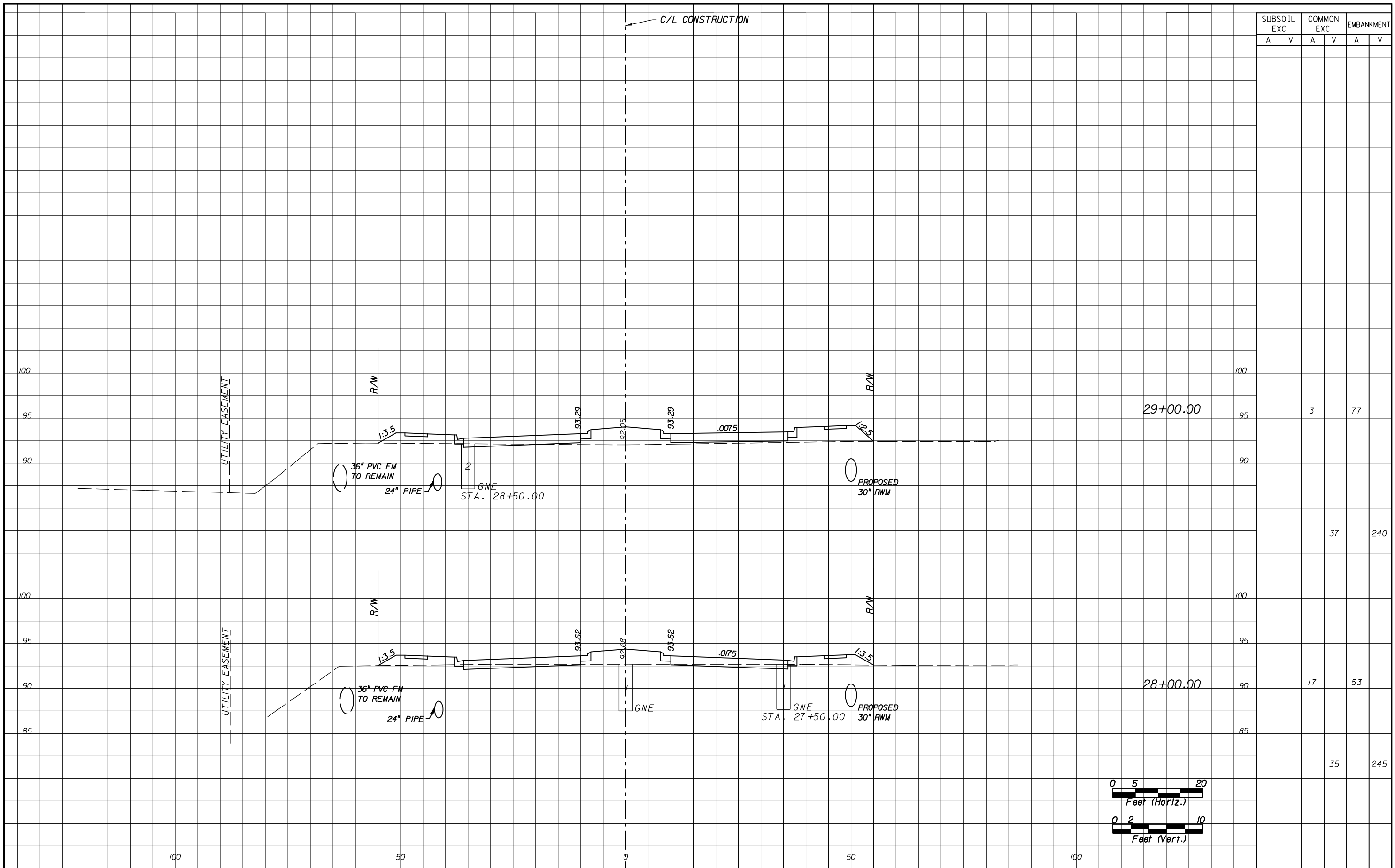
CANADIAN COURT/
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PROJ. NO. 5089 - SEC. 1B/2A

CROSS SECTIONS

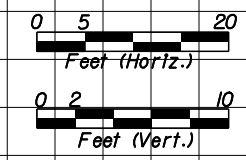
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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
			3		77
				37	240
			17		53
				35	245



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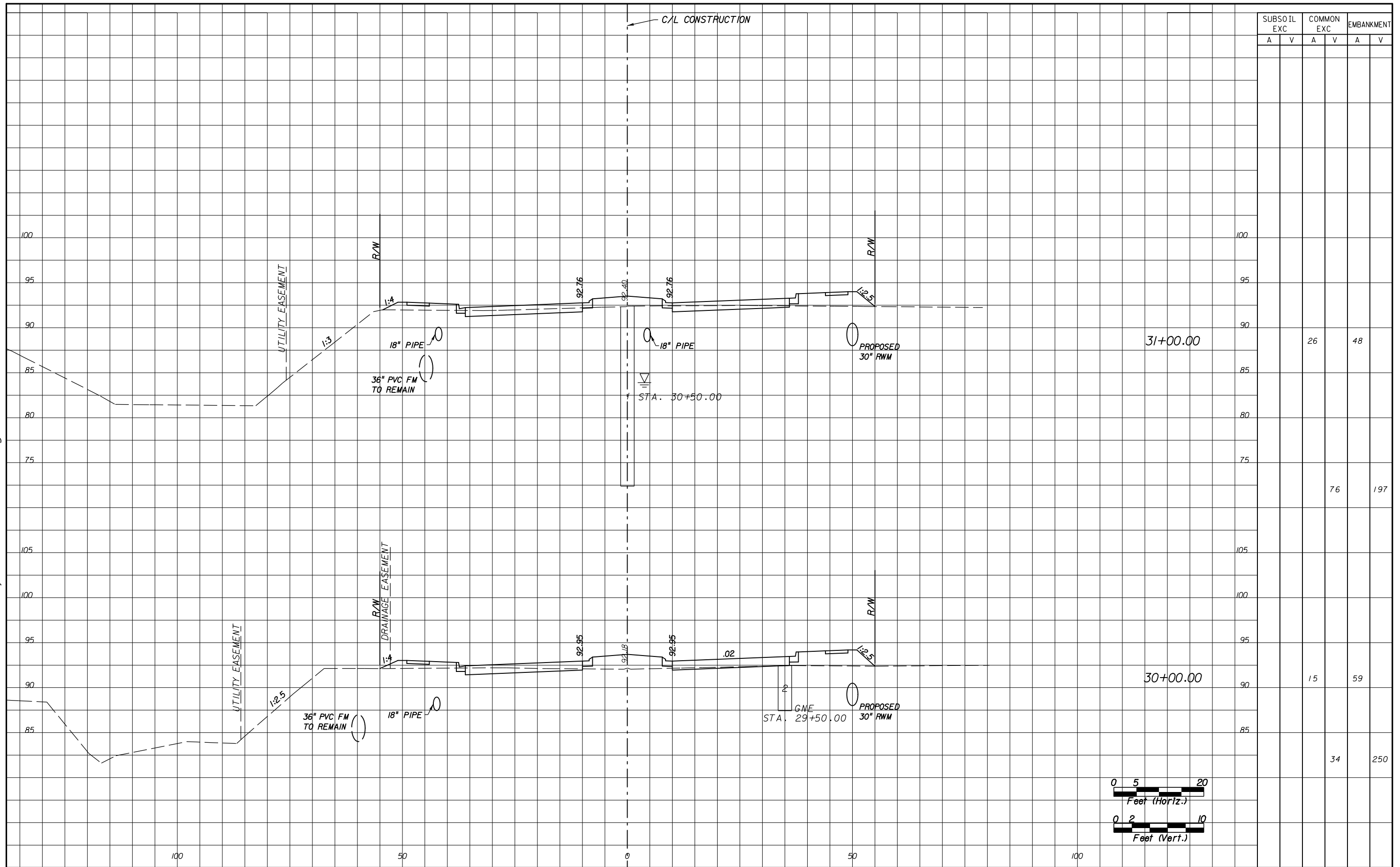
CANADIAN COURT/
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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

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32

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
		26		48	
			76		197
		15		59	
			34		250



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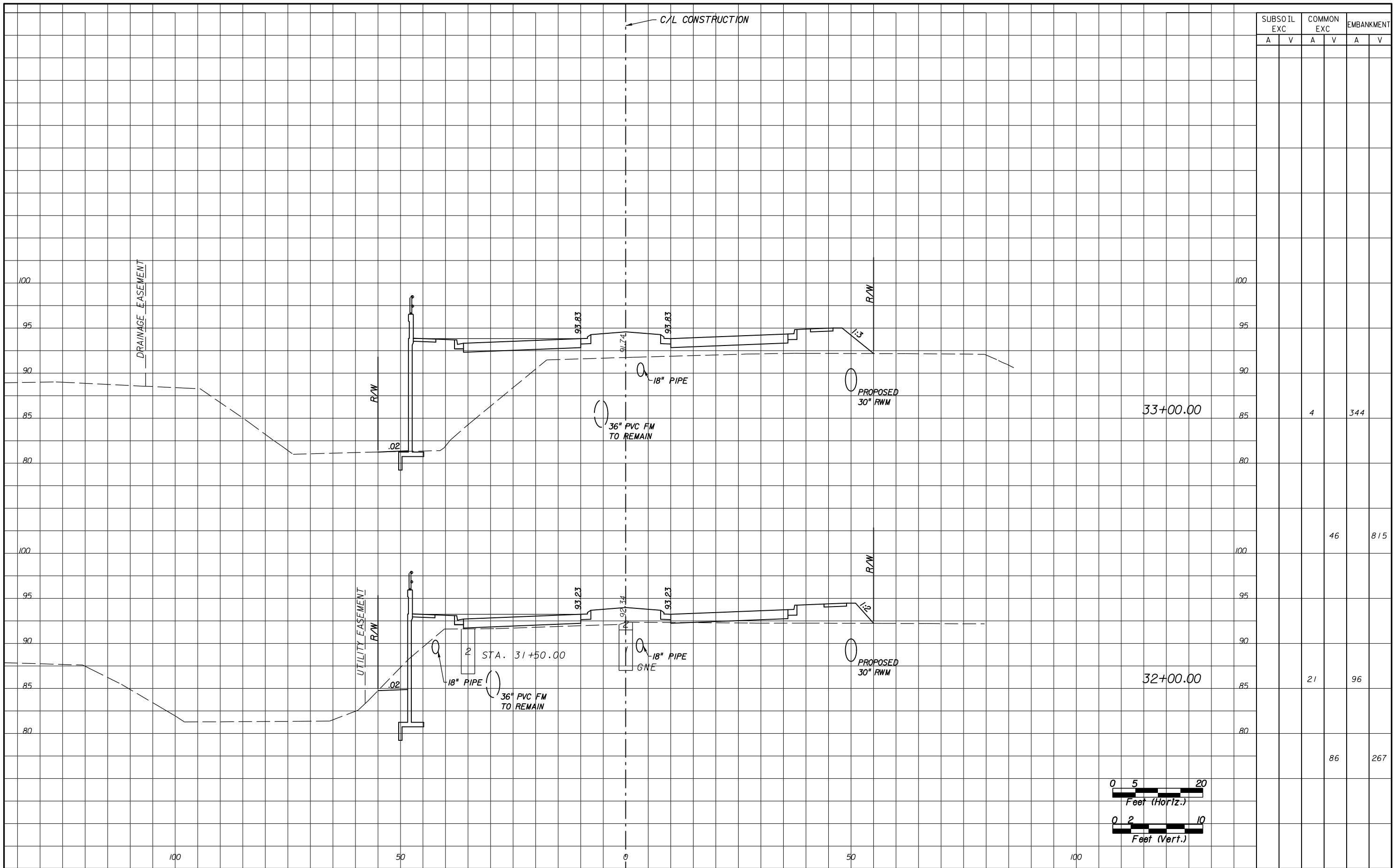
CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

CROSS SECTIONS

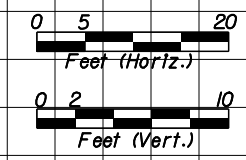
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 33

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
		4		344	
			46		815
		21		96	
			86		267



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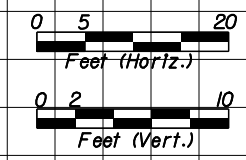
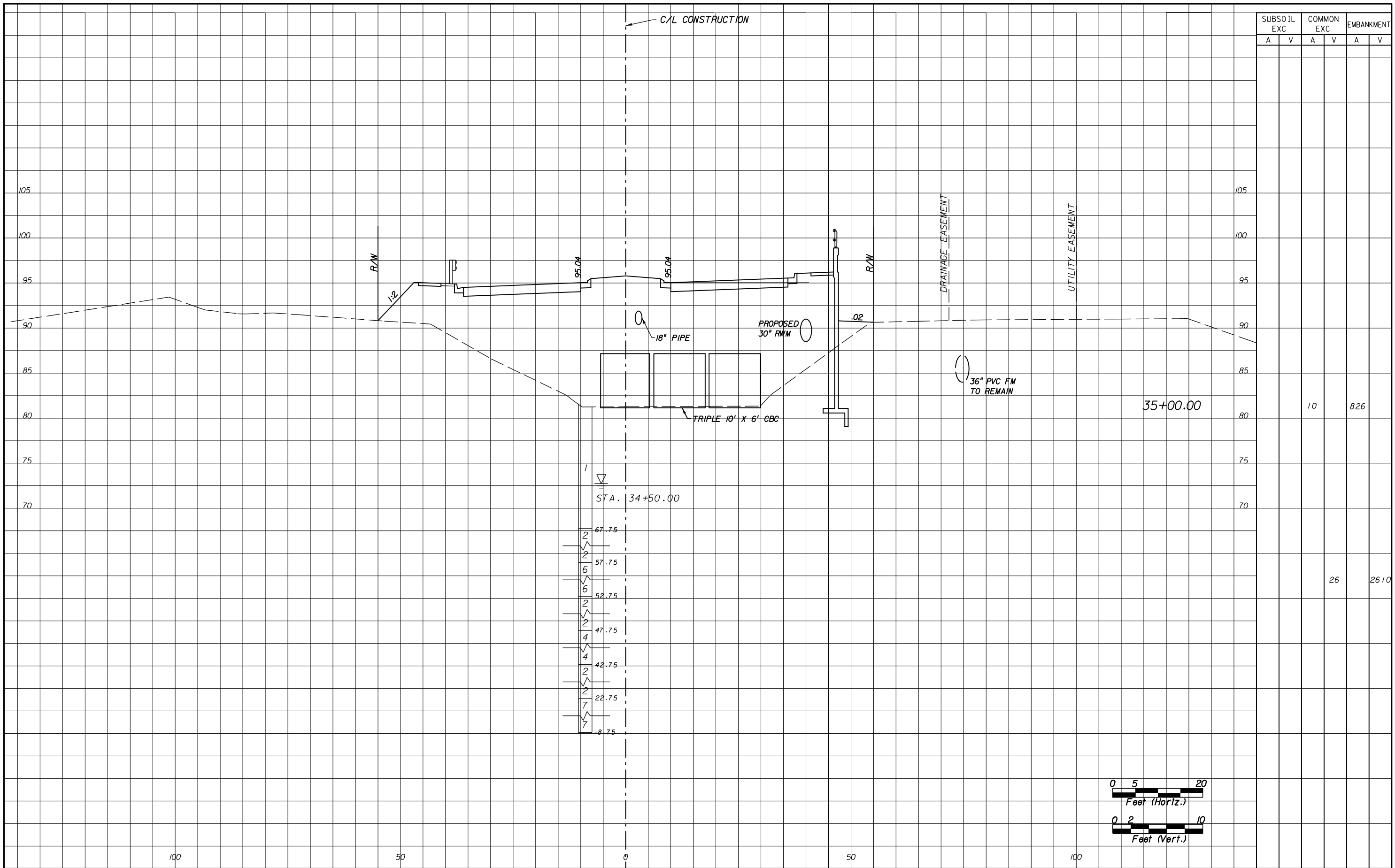


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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

CROSS SECTIONS

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34

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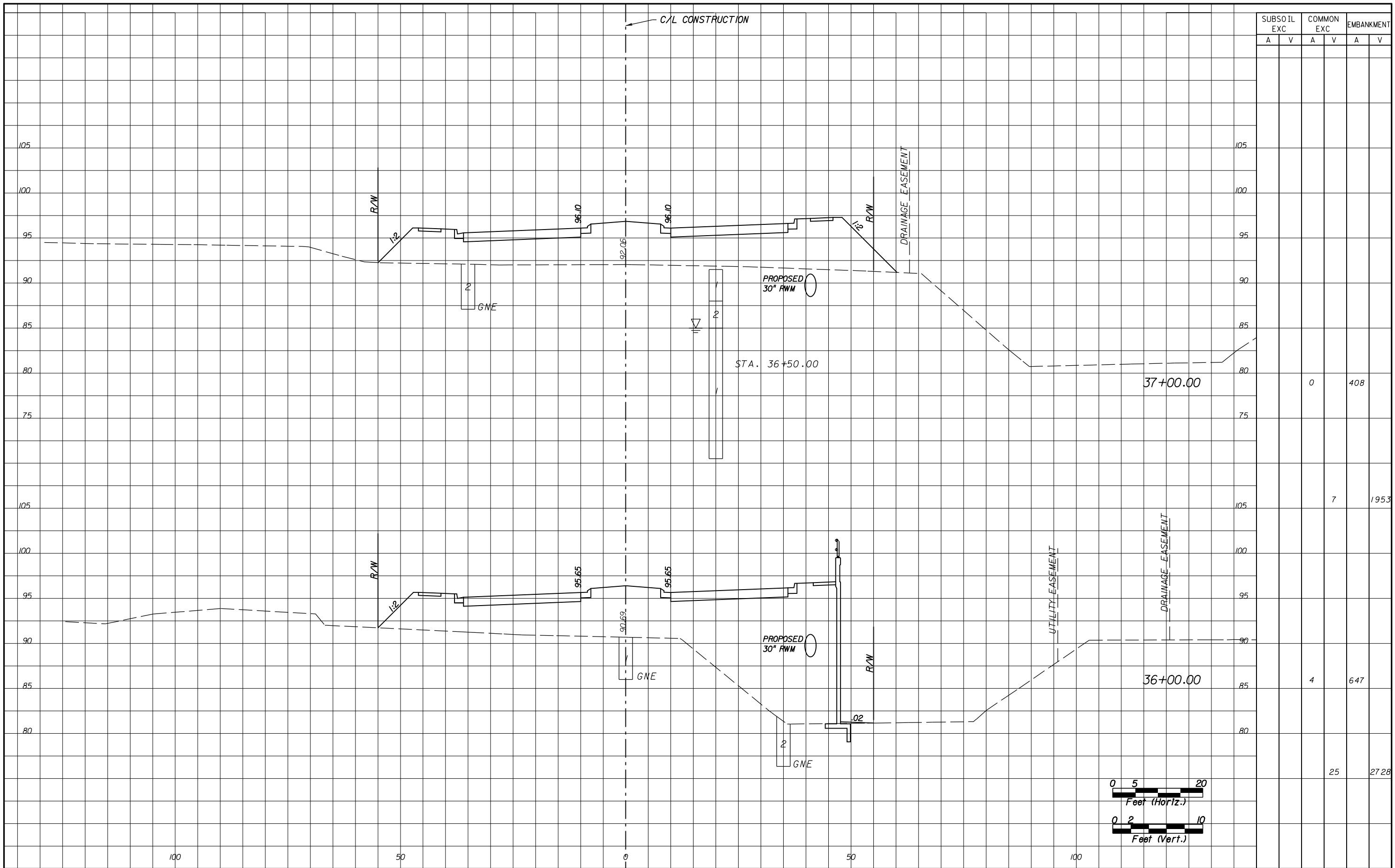
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 36

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
		0		408	
			7		1953
		4		647	
			25		2728

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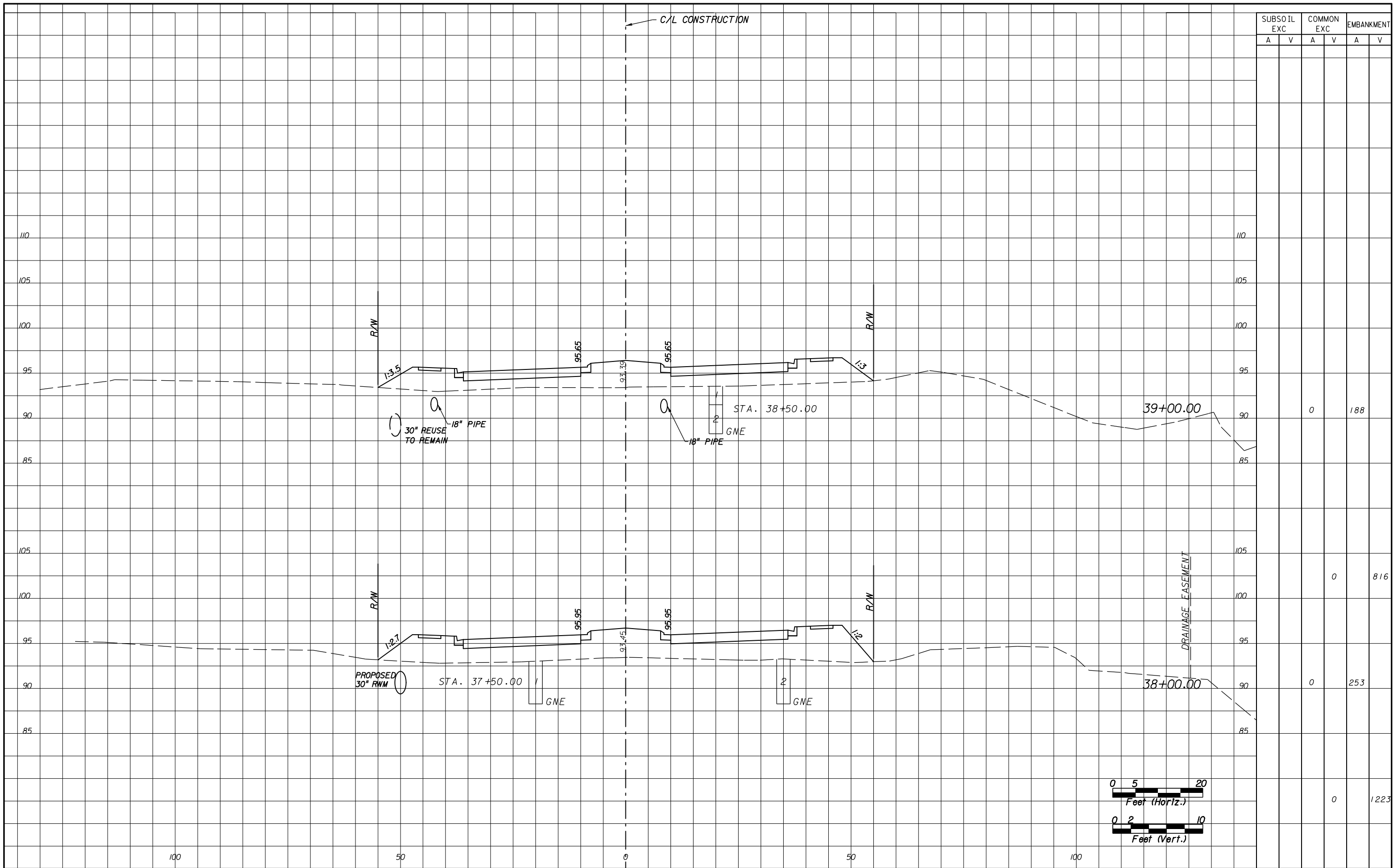


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CROSS SECTIONS
 SHEET NO. 37

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V
		0		188	
			0		816
		0		253	
			0		1223

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
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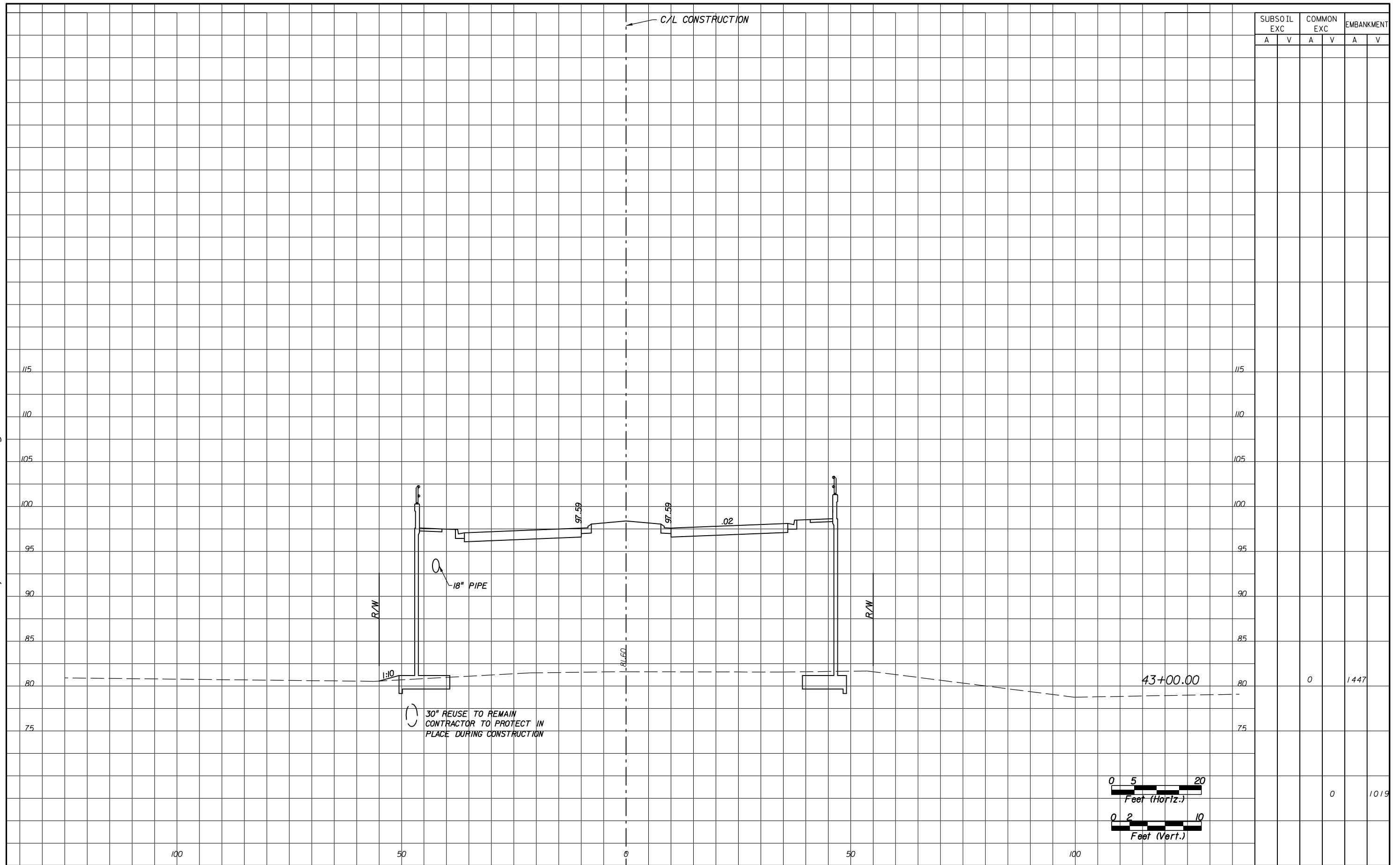
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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

CROSS SECTIONS

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38

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SUBSOIL EXC		COMMON EXC		EMBANKMENT	
A	V	A	V	A	V



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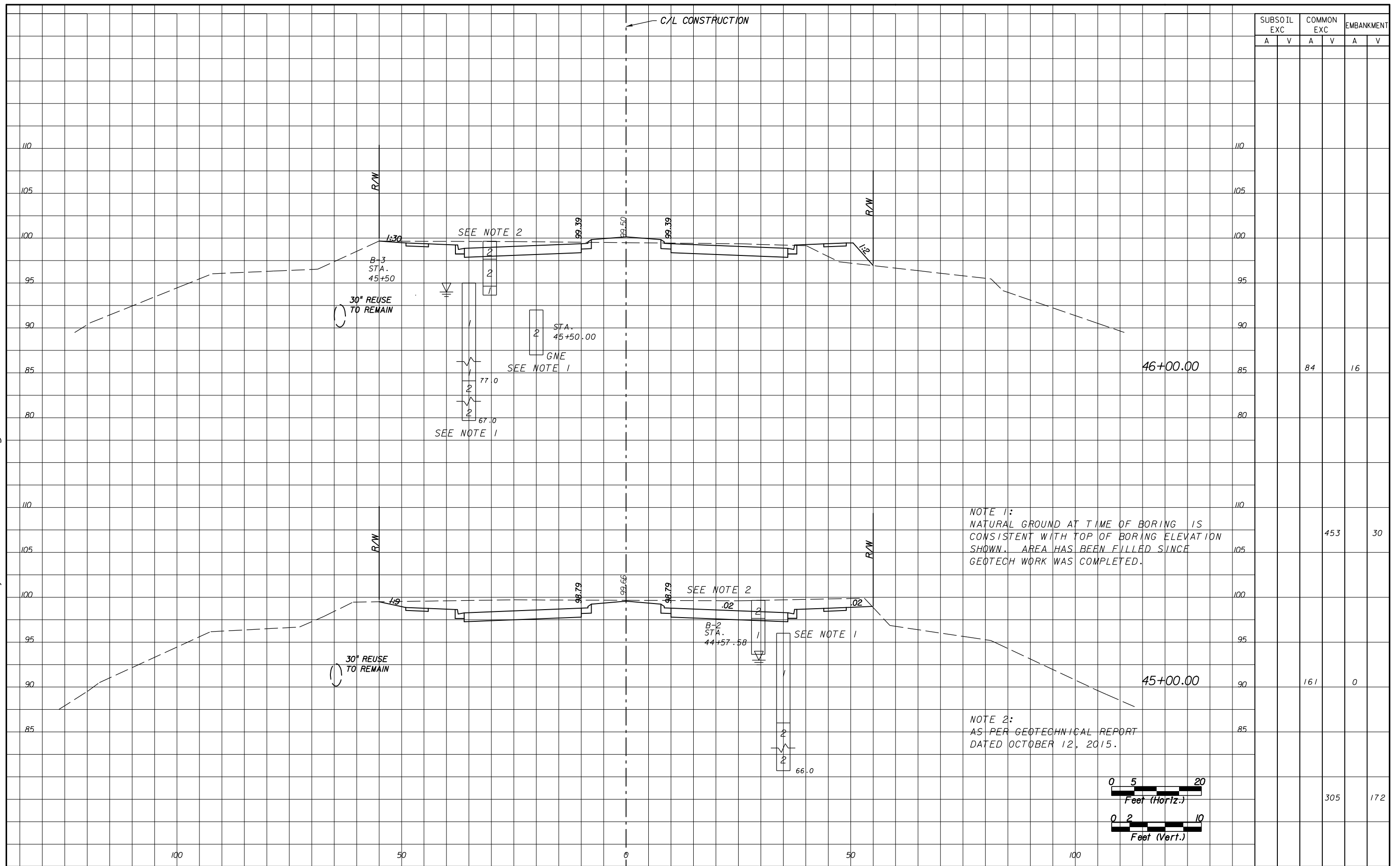
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CROSS SECTIONS

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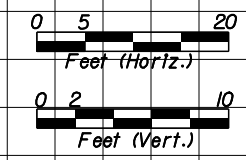
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NOTE 1:
NATURAL GROUND AT TIME OF BORING IS CONSISTENT WITH TOP OF BORING ELEVATION SHOWN. AREA HAS BEEN FILLED SINCE GEOTECH WORK WAS COMPLETED.

NOTE 2:
AS PER GEOTECHNICAL REPORT DATED OCTOBER 12, 2015.



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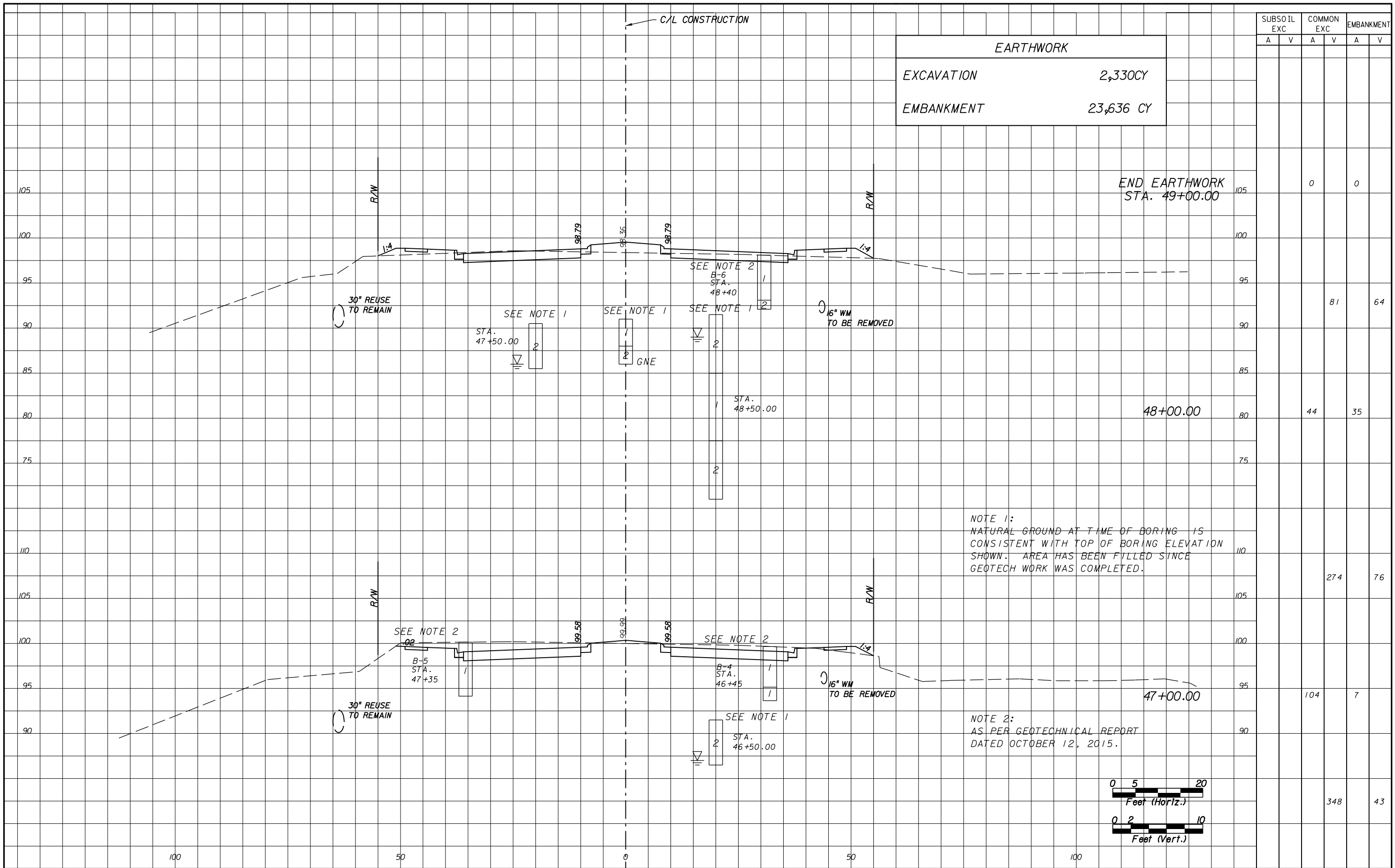
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CROSS SECTIONS

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45

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EARTHWORK	
EXCAVATION	2,330CY
EMBANKMENT	23,636 CY

SUBSOIL EXC	COMMON EXC	EMBANKMENT	
		A	V
		0	0
		81	64
		44	35
		274	76
		104	7
		348	43

NOTE 1:
NATURAL GROUND AT TIME OF BORING IS CONSISTENT WITH TOP OF BORING ELEVATION SHOWN. AREA HAS BEEN FILLED SINCE GEOTECH WORK WAS COMPLETED.

NOTE 2:
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CROSS SECTIONS

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46

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1. SITE DESCRIPTION

a. CONSTRUCTION ACTIVITY:
CONSTRUCTION OF A 4-LANE ROADWAY AND ASSOCIATED STORM SEWER SYSTEM.

PROJECT LIMITS: STA 219+20 TO STA 49+00
FROM JUST WEST OF VALENCIA CANAL TO JUST WEST OF UNIVERSAL BLVD.

PROJECT DESCRIPTION: CONSTRUCT A FOUR LANE URBAN ROADWAY.

b. MAJOR SOIL DISTURBING ACTIVITIES:
IN SECTION 104 OF THE EROSION CONTROL PLAN, CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES.
MAJOR SOIL DISTURBING ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO:
- INITIAL INSTALLATION OF PERIMETER CONTROLS, SEDIMENT TRAPS, BASIN, AND DIVERSIONS PRIOR TO SITE DEVELOPMENT
- CLEARING AND GRUBBING, EARTHWORK, STORM SEWER CONSTRUCTION AND UTILITIES
- EARTHWORK ASSOCIATED WITH ROADWAY, CURB, SUBGRADE, BASE, PAVEMENT AND SIDEWALK.
- PREPARATION FOR FINAL PLANTING AND SEEDING.
- REMOVE TEMPORARY PERIMETER CONTROLS AFTER ALL UPSTREAM AREAS ARE FINALLY STABILIZED.

c. TOTAL PROJECT AREA: 8.8 ACRES
TOTAL AREA TO BE DISTURBED: 8.8 ACRES

d. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION:
C = 0.20 (BEFORE)
C = 0.40 (DURING)
C = 0.61 (AFTER)

(2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:
SEE SOIL BORING LOGS IN CONSTRUCTION PLANS

(3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL:
POND 9A: 5.40 ACRES
POND 0C-1: 3.40 ACRES

e. LOCATIONS OF DRAINAGE AREAS AND OUTFALLS:
SEE DRAINAGE MAPS IN CONSTRUCTION PLANS AND DRAINAGE REPORT FOR LOCATION OF DRAINAGE AREAS.

f. (1) NAME OF RECEIVING WATERS:
SHINGLE CREEK, CLASS III
VALENCIA CANAL
NEWOVER CANAL

(2) WETLAND AREA:
NO WETLANDS WITHIN PROJECT LIMITS.

2. CONTROLS

THE SWPPP DETAIL SHEET INDICATES TEMPORARY EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. PERMANENT EROSION CONTROL MEASURES ARE SHOWN ON THE ROADWAY PLANS. THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL, RECEIVING WATER, OR OTHERWISE VIOLATING STATE AND FEDERAL PERMIT REQUIREMENTS.

a. EROSION AND SEDIMENT CONTROLS:
(1) STABILIZATION PRACTICES:
X TEMPORARY SODDING
TEMPORARY GRASSING
X PERMANENT PLANTING, SODDING, OR SEEDING
TEMPORARY MULCHING

ARTIFICIAL COVERING
BUFFER ZONES
PRESERVATION OF NATURAL RESOURCES

-LIMITS OF SODDING ARE SHOWN ON TYPICAL SECTIONS IN CONSTRUCTION PLANS (FDOT SPEC. 575)

STABILIZATION MEASURES SHALL BE INITIATED 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.

OTHER:
THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN.

(2) STRUCTURAL PRACTICES:
SAND BAGGING
X SILT FENCES
X HAY BALES (SYNTHETIC)
BERMS
DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
PIPE SLOPE DRAINS
FLUMES
ROCK BEDDING AT CONSTRUCTION EXIT
TIMBER BEDDING AT CONSTRUCTION EXIT
DITCH LINER
X ROCK BAGS AND PERFORATED PIPE WITH FILTER SOCK AT INLETS

SEDIMENT TRAPS
SEDIMENT BASINS (PONDS)
STORM INLET SEDIMENT TRAP
STONE OUTLET STRUCTURES
X CURBS AND GUTTERS
X STORM SEWERS
VELOCITY CONTROL DEVICES
X TURBIDITY BARRIER
X RIP RAP

-LOCATIONS OF SILT FENCES, HAY BALES, AND TURBIDITY BARRIERS ARE SHOWN ON THE EROSION CONTROL PLAN (FDOT INDEX 104).
-DETAILS FOR ROCK BAGS AND PERFORATED PIPE WITH FILTER SOCK ARE SHOWN ON THE EROSION CONTROL DETAIL SHEET.
-LOCATIONS OF DITCH LINER, PONDS, CURBS AND GUTTERS, STORM SEWERS, AND RIP RAP ARE SHOWN ON THE CONSTRUCTION PLANS.

OTHER:
THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN.

b. DESCRIPTION OF STORM WATER MANAGEMENT:
IN GENERAL, STORMWATER RUNOFF FROM CANADIAN COURT WILL BE COLLECTED AND DISCHARGED THROUGH STORMWATER INLETS INTO RETENTION PONDS. SEE DRAINAGE MAP IN CONSTRUCTION PLANS AND THE DRAINAGE REPORT FOR MORE DESCRIPTION OF STORMWATER MANAGEMENT.

c. OTHER CONTROLS

(1) WASTE DISPOSAL:
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN.

(2) OFFSITE VEHICLE TRACKING:
X HAUL ROADS DAMPENED FOR DUST CONTROL
X LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
X EXCESS DIRT ON ROAD REMOVED DAILY
X STABILIZED CONSTRUCTION ENTRANCE

OTHER:
THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN.

(3) SANITARY WASTE:
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN.

(4) FERTILIZERS AND PESTICIDES:
FERTILIZER WILL BE APPLIED ACCORDING TO APPLICABLE SUBSECTIONS OF EITHER SECTION 570 OR SECTION 577 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THE USE OF PESTICIDES IN THE SECTION 104 EROSION CONTROL PLAN.

(5) NON-STORM WATER DISCHARGE (INCLUDING SPILL REPORTING):
IN SECTION 104 OF THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.
IN SECTION 104 OF THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORM WATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR. IF THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION.

d. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS:
SFWM ENVIRONMENTAL RESOURCE PERMIT APP NO. 080807-20; PERMIT NO. 48-01103-S-08 - PENDING

3. MAINTENANCE:
MAINTENANCE OF PERMANENT AND TEMPORARY FEATURES SHALL BE DONE IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. HAY BALES SHALL BE REPLACED EVERY 3 MONTHS OR SOONER AS NECESSARY. SILT FENCES SHALL BE REPLACED EVERY 12 MONTHS OR SOONER AS NECESSARY.
ALL CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER.
IN SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION.

4. INSPECTION:
THE CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES (12.7 MM) OR GREATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF RAIN GAUGES AND FOR OBTAINING DAILY RAINFALL AMOUNTS. RAINFALL AMOUNTS SHOULD BE SUBMITTED ALONG WITH THE WEEKLY INSPECTION REPORTS TO THE ENGINEER.

IN ADDITION, THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL EROSION CONTROL FEATURES AS REQUIRED HEREIN AND AS SPECIFIED IN STATE AND/OR FEDERAL ENVIRONMENTAL REGULATORY PERMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE DAILY REVIEW OF CONTOUR AND DRAINAGE RUNOFF TO ENSURE THAT SILT FENCES ARE PROPERLY LOCATED FOR EFFECTIVENESS. THE CONTRACTOR WILL USE FDOT FORM 650-040-03 TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH INSPECTION REPORT AND SUBMIT IT WEEKLY TO THE ENGINEER.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: AMY L. WOOLEY
P.E. #56796

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JOHN YOUNG PARKWAY
CONNECTOR ROADWAY

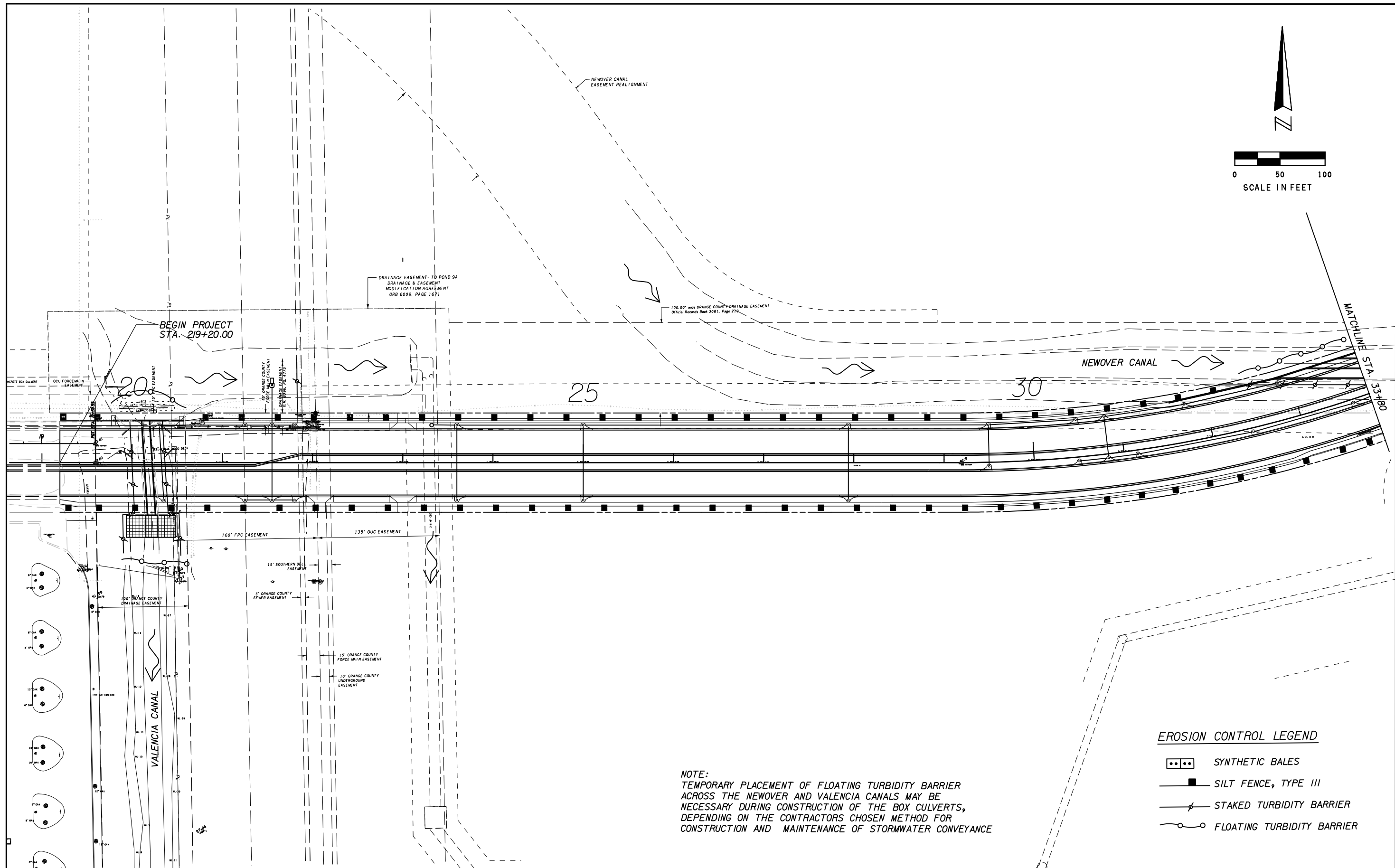
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**STORMWATER POLLUTION
PREVENTION PLAN**

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47

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EROSION CONTROL LEGEND

- SYNTHETIC BALES
- SILT FENCE, TYPE III
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER

NOTE:
TEMPORARY PLACEMENT OF FLOATING TURBIDITY BARRIER ACROSS THE NEWOVER AND VALENCIA CANALS MAY BE NECESSARY DURING CONSTRUCTION OF THE BOX CULVERTS, DEPENDING ON THE CONTRACTORS CHOSEN METHOD FOR CONSTRUCTION AND MAINTENANCE OF STORMWATER CONVEYANCE

REVISIONS					
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Engineer of Record:
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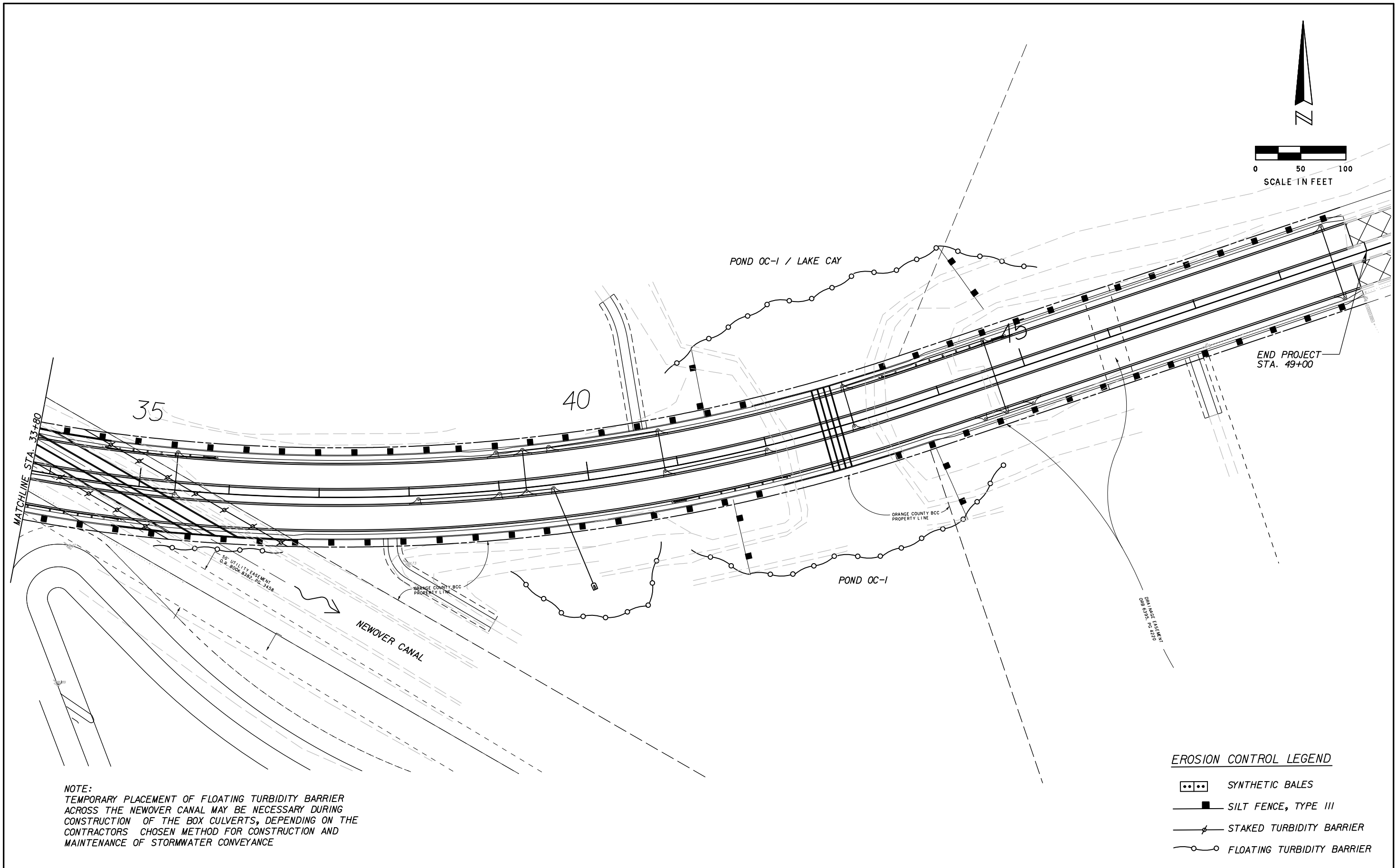
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EROSION CONTROL PLAN

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49

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NOTE:
TEMPORARY PLACEMENT OF FLOATING TURBIDITY BARRIER
ACROSS THE NEWOVER CANAL MAY BE NECESSARY DURING
CONSTRUCTION OF THE BOX CULVERTS, DEPENDING ON THE
CONTRACTORS CHOSEN METHOD FOR CONSTRUCTION AND
MAINTENANCE OF STORMWATER CONVEYANCE

EROSION CONTROL LEGEND

- ⋯ SYNTHETIC BALES
- SILT FENCE, TYPE III
- △— STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER

REVISIONS					
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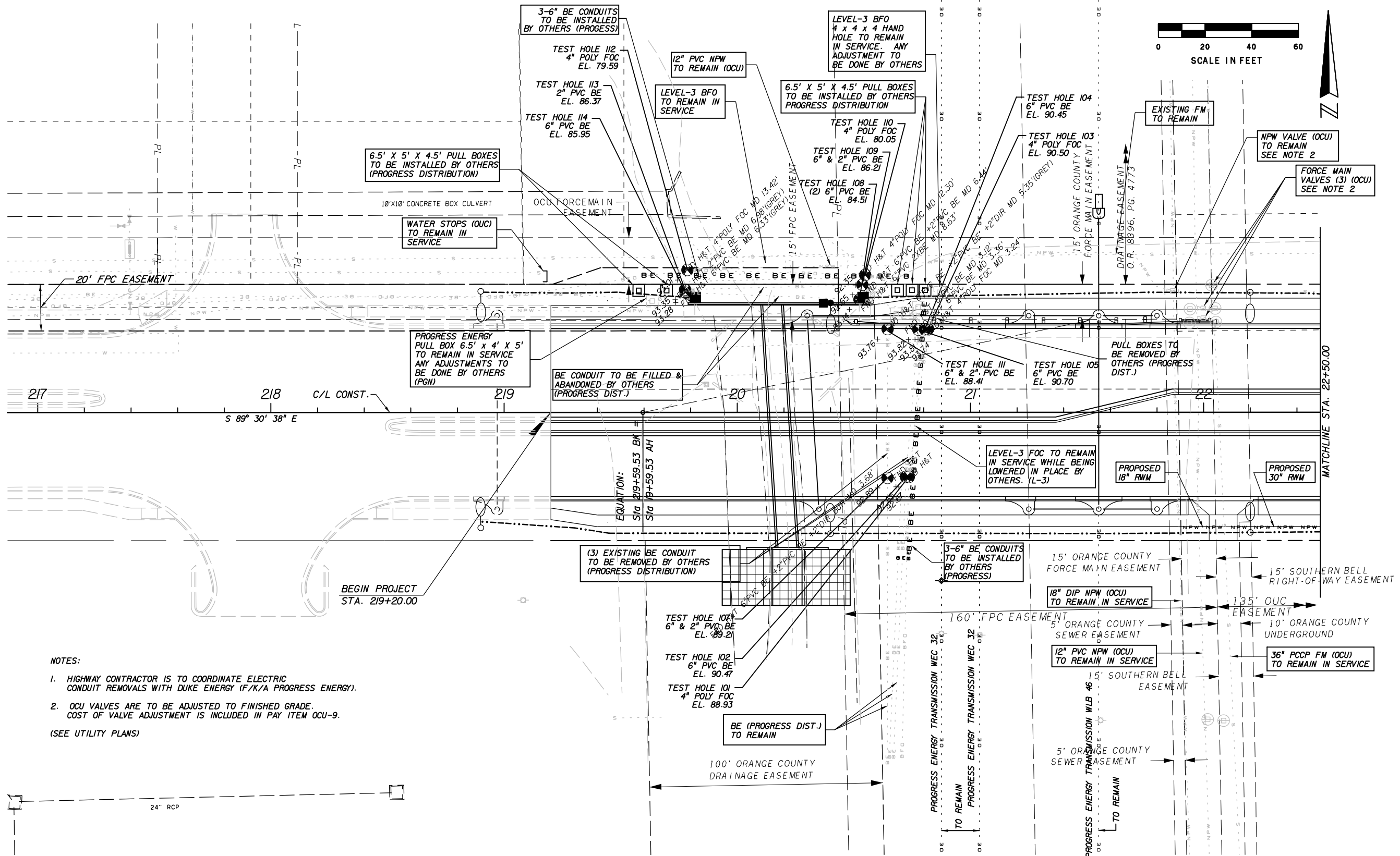


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EROSION CONTROL PLAN

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50

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- NOTES:
- HIGHWAY CONTRACTOR IS TO COORDINATE ELECTRIC CONDUIT REMOVALS WITH DUKE ENERGY (F/K/A PROGRESS ENERGY).
 - OCU VALVES ARE TO BE ADJUSTED TO FINISHED GRADE. COST OF VALVE ADJUSTMENT IS INCLUDED IN PAY ITEM OCU-9. (SEE UTILITY PLANS)

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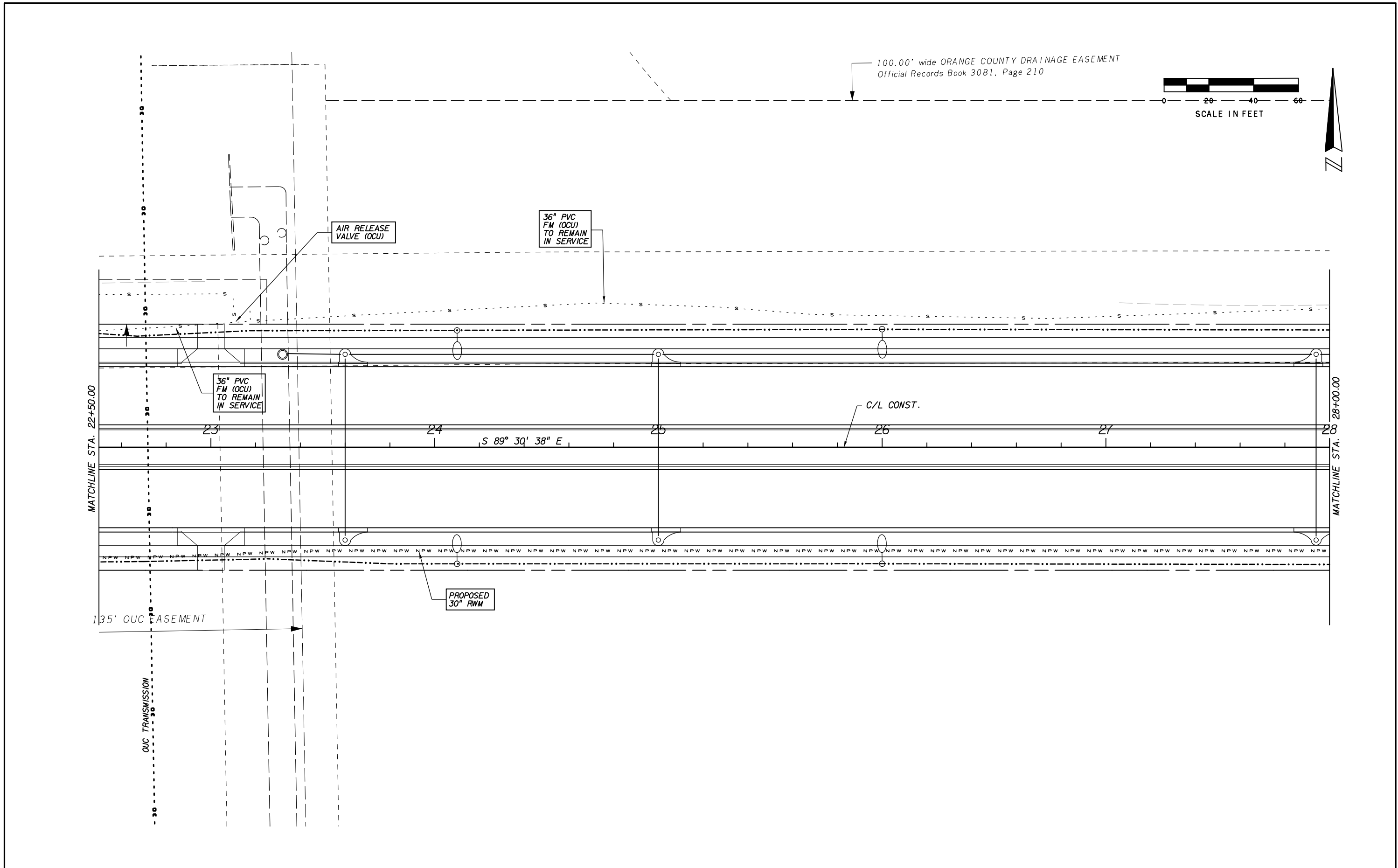
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UTILITY ADJUSTMENTS
 219+20.00 TO 22+50.00

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 52

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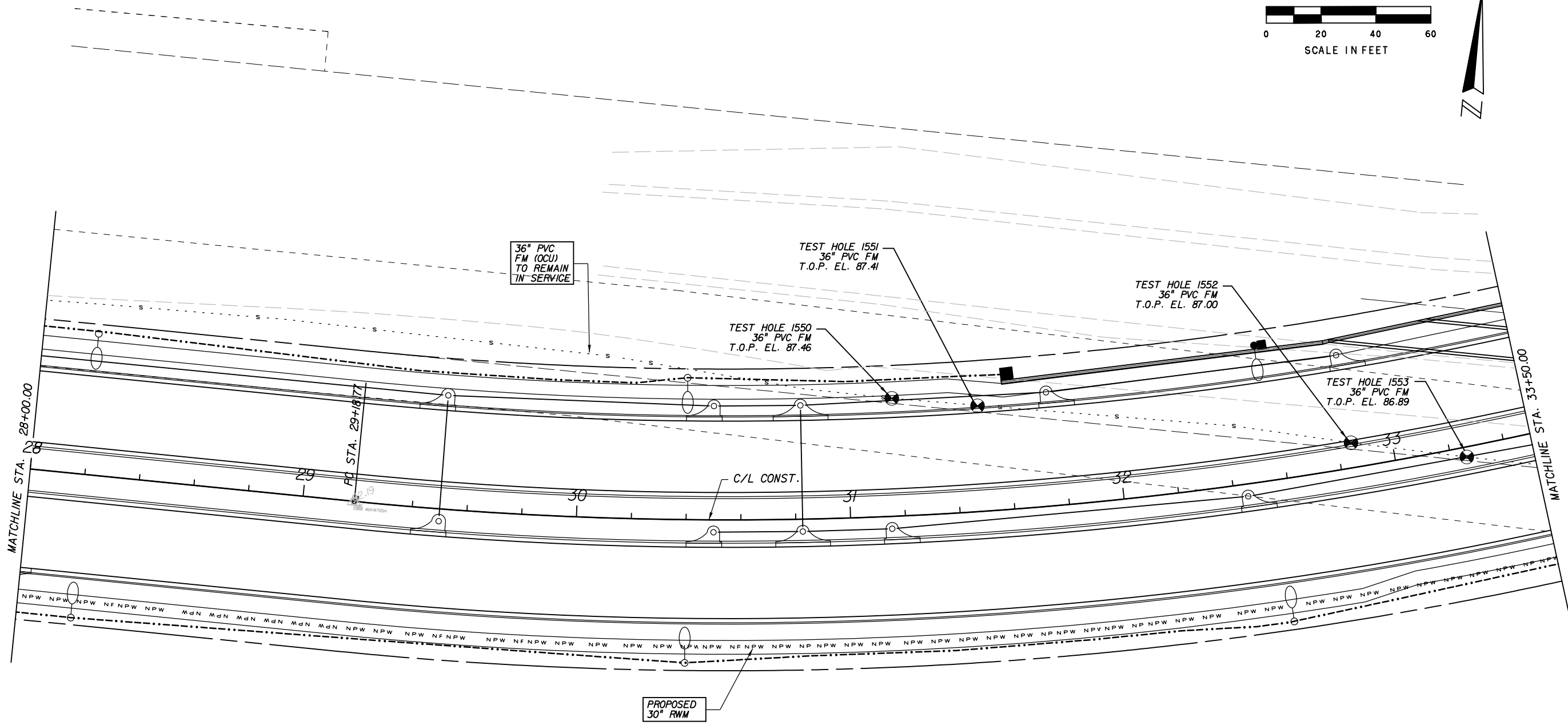
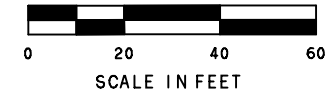
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UTILITY ADJUSTMENTS
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53

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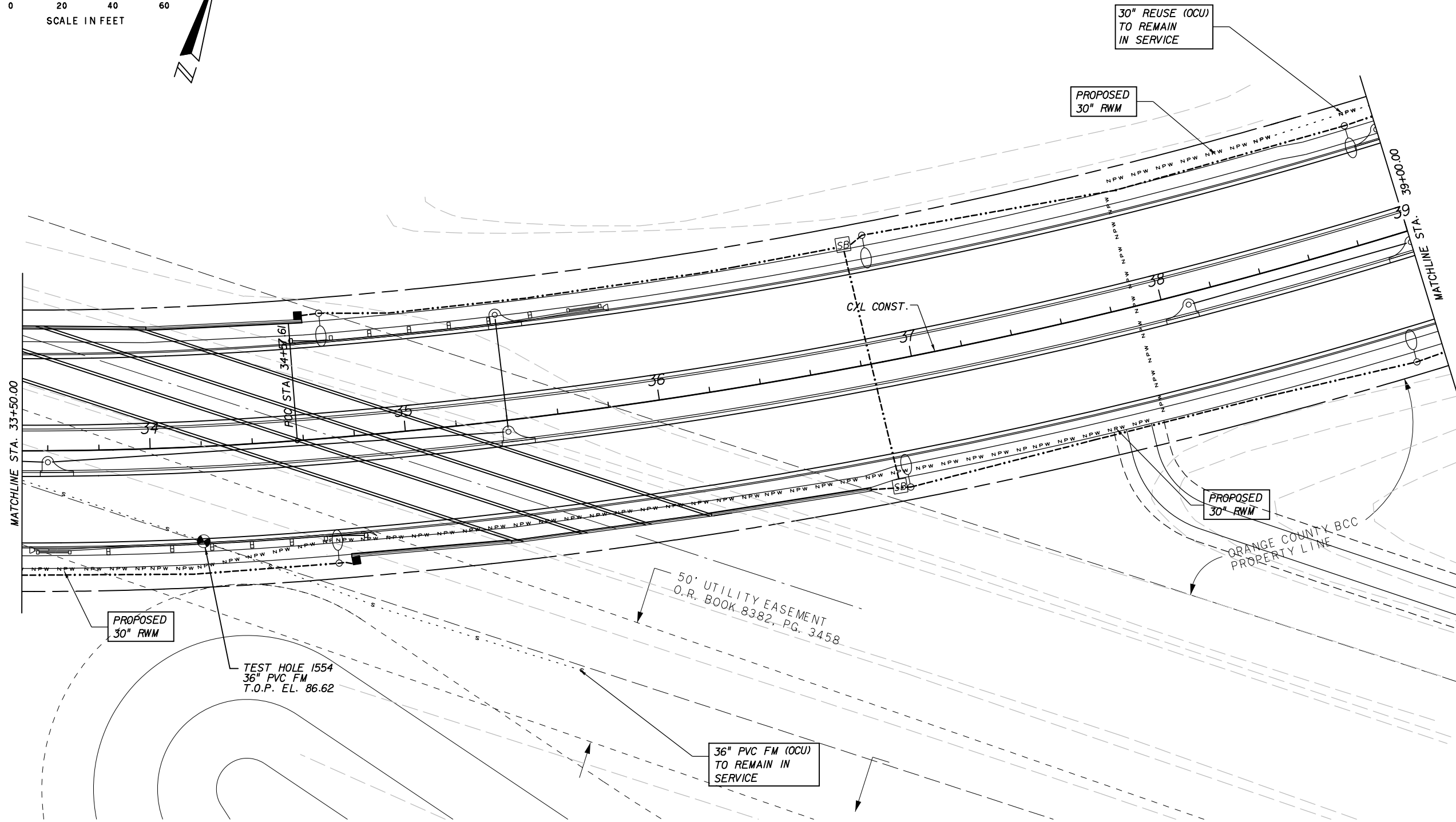
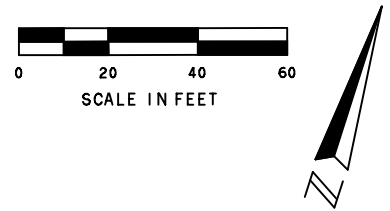
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UTILITY ADJUSTMENTS
28+00.00 TO 33+50.00

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54



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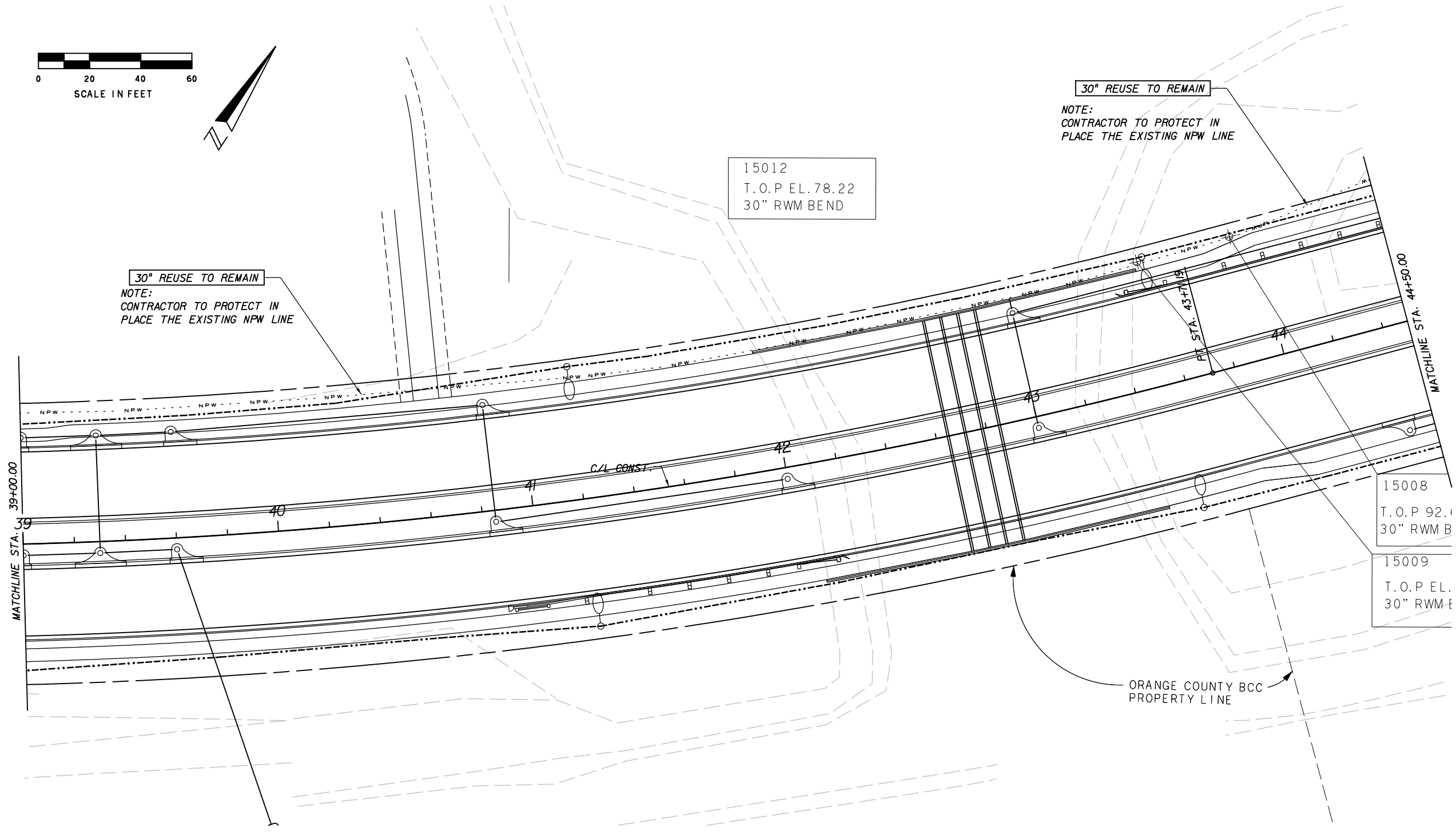
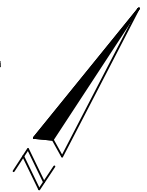
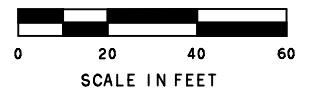


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UTILITY ADJUSTMENTS
33+50.00 TO 39+00.00

SHEET NO.
 55

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30" REUSE TO REMAIN
 NOTE:
 CONTRACTOR TO PROTECT IN
 PLACE THE EXISTING NPW LINE

15012
 T.O.P EL. 78.22
 30" RWM BEND

30" REUSE TO REMAIN
 NOTE:
 CONTRACTOR TO PROTECT IN
 PLACE THE EXISTING NPW LINE

15008
 T.O.P 92.6
 30" RWM B

15009
 T.O.P EL.
 30" RWM-E

ORANGE COUNTY BCC
 PROPERTY LINE

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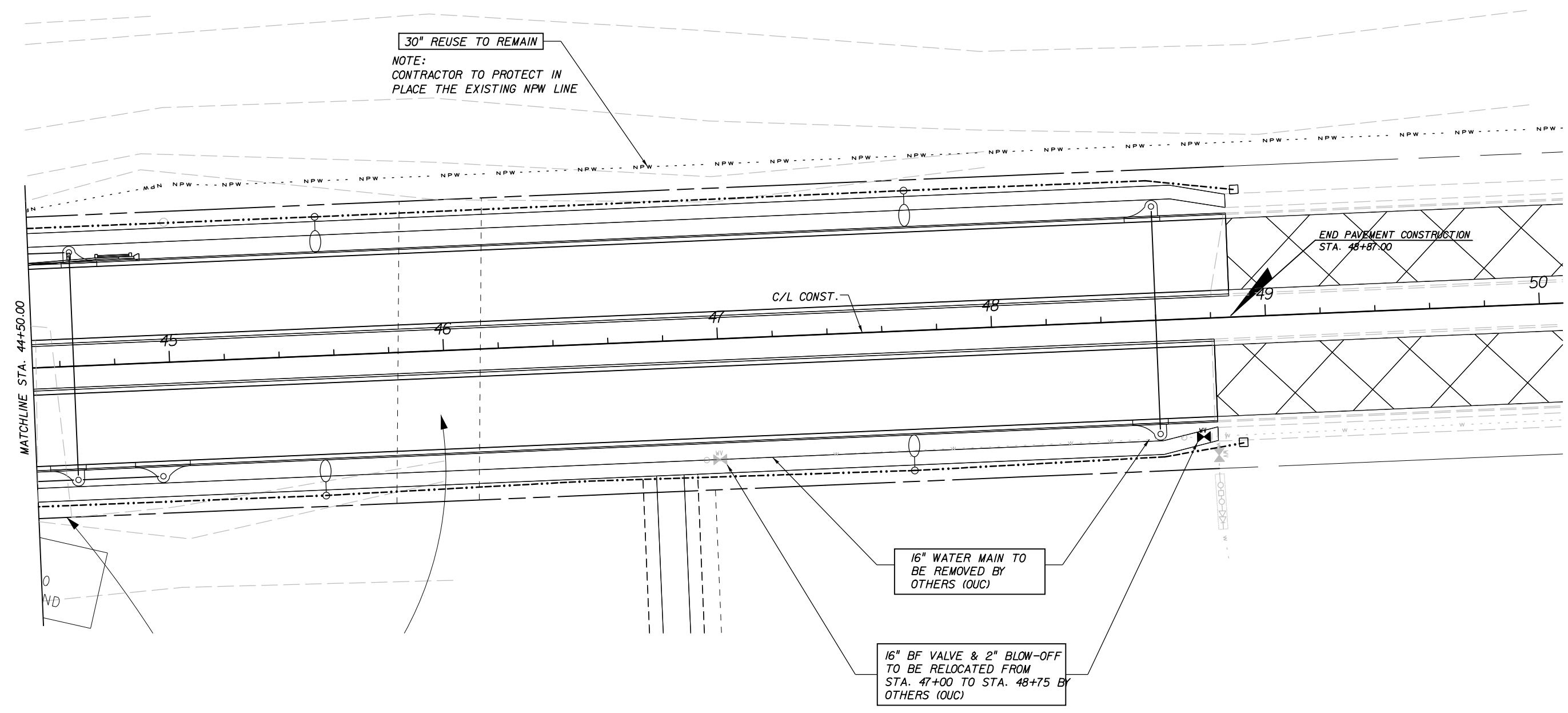
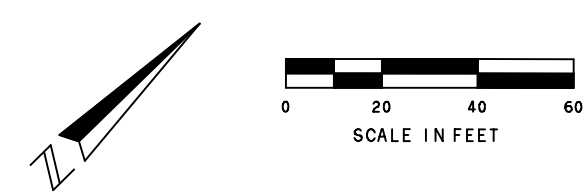


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UTILITY ADJUSTMENTS
39+00.00 TO 44+50.00

SHEET NO.
 56

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UTILITY ADJUSTMENTS
44+50.00 TO 49+00.00

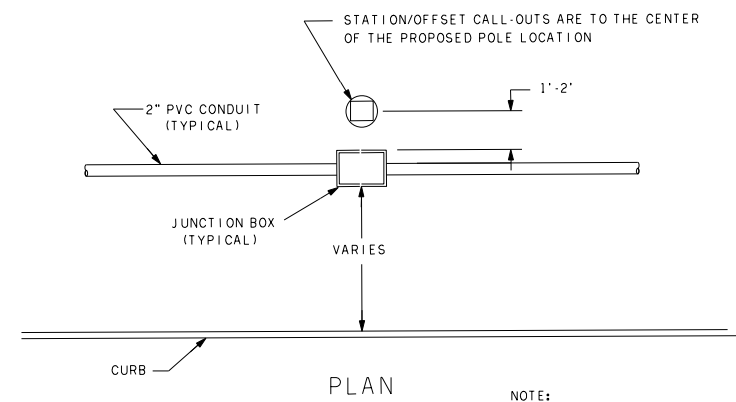
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 57

POLE DATA (PRELIMINARY)

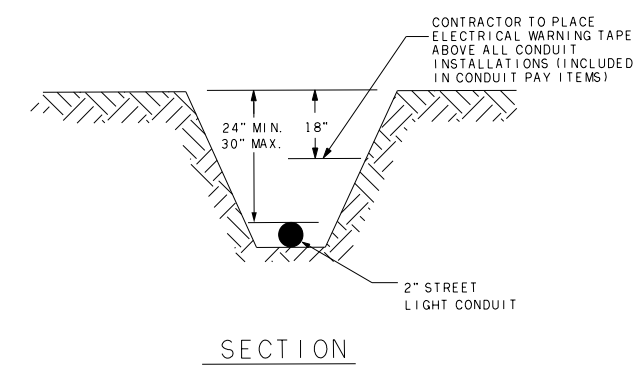
POLE NO.	STATION	LUM. WATTAGE	HEIGHT	NOTES
30	20+40.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
31	20+40.00, 41.5' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
32	22+20.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
33	22+20.00, 47' LT		40' (34' M.H.)	STEEL POLE ON PILASTER
34	23+80.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
35	23+80.00, 52' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
36	26+00.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
37	26+00.00, 52' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
38	28+20.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
39	28+20.00, 52' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
40	30+40.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
41	30+40.00, 52' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
42	32+55.00, 52' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
43	32+55.00, 49' LT		40' (34' M.H.)	STEEL POLE ON PILASTER
44	34+70.00, 49' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
45	34+70.00, 49' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
46	36+90.00, 50.1' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
47	36+90.00, 50.1' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
48	38+90.00, 50' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
49	38+90.00, 46.5' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
50	41+20.00, 50' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
51	41+20.00, 52' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
52	43+55.00, 50' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
53	43+55.00, 51' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
54	45+55.00, 51' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
55	45+55.00, 51' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
56	47+70.00, 51' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
57	47+70.00, 51' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
100	218+90.00, 49.5' RT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE
101	218+90.00, 52' LT		40' (34' M.H.)	DIRECT BURIED CONCRETE POLE

LEGEND

- 2" CONDUIT (TYP.)
- LIGHT POLE WITH JUNCTION BOX
- ◐ LIGHT POLE (END WALL MOUNTED)
- ▣ SB SECONDARY JUNCTION BOX
- JB OR □ STREET LIGHT JUNCTION BOX
- JUNCTION BOX EMBEDDED IN END WALL (PAYMENT INCIDENTAL TO BOX CULVERT PAY ITEM) (COVER SHALL FACE TRAFFIC)



NOTE:
1. THE CENTER LINES OF STREET LIGHT POLE AND JUNCTION BOX WILL BE ALIGNED WITHIN 2" UNLESS SPECIFIED BY ENGINEER.



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Engineer of Record: **SUSAN GRATCH**
P.E. #40134
ATKINS
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482 South Keller Road
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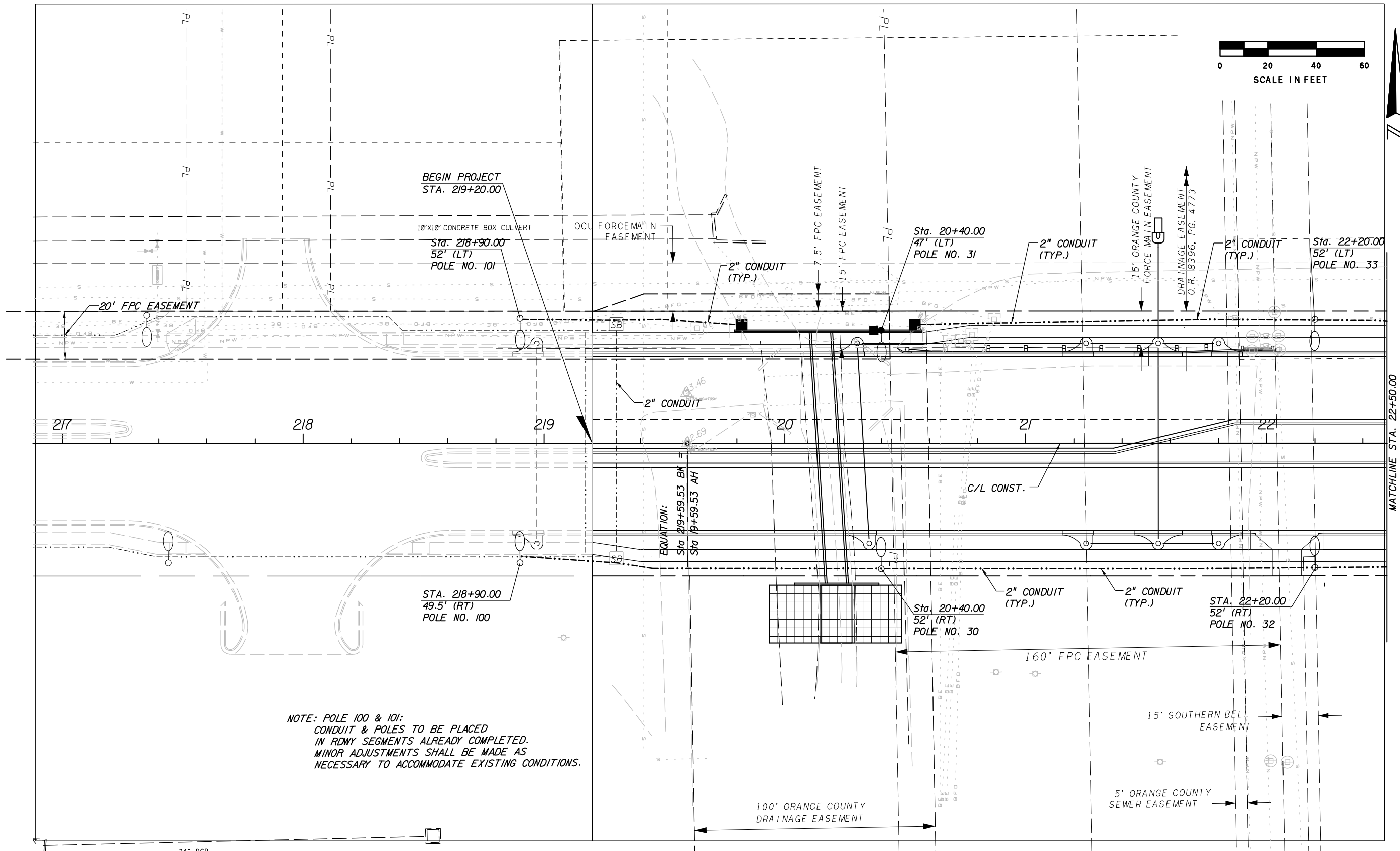
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CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

LIGHTING PLAN
PRELIMINARY POLE DATA

SHEET NO.
L-2

5/4/2016
11:41:59 AM

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BEGIN PROJECT
STA. 219+20.00

18"x10" CONCRETE BOX CULVERT
Sta. 218+90.00
52' (LT)
POLE NO. 101

Sta. 218+90.00
49.5' (RT)
POLE NO. 100

Sta. 20+40.00
47' (LT)
POLE NO. 31

Sta. 20+40.00
52' (RT)
POLE NO. 30

Sta. 22+20.00
52' (LT)
POLE NO. 33

Sta. 22+20.00
52' (RT)
POLE NO. 32

NOTE: POLE 100 & 101:
CONDUIT & POLES TO BE PLACED
IN RDWY SEGMENTS ALREADY COMPLETED.
MINOR ADJUSTMENTS SHALL BE MADE AS
NECESSARY TO ACCOMMODATE EXISTING CONDITIONS.

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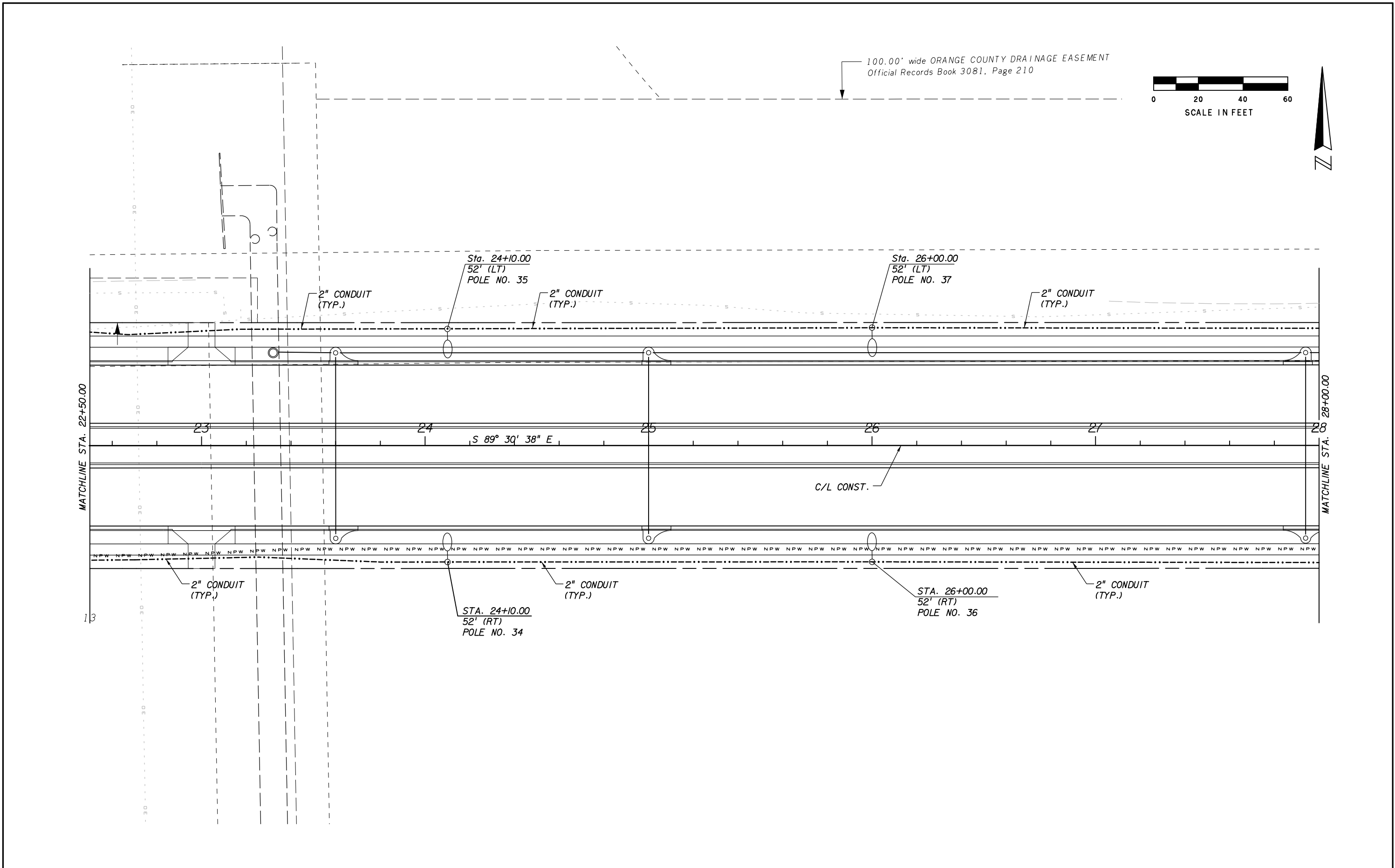
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LIGHTING PLAN
219+00.00 TO 22+50.00
SHEET NO. L-3

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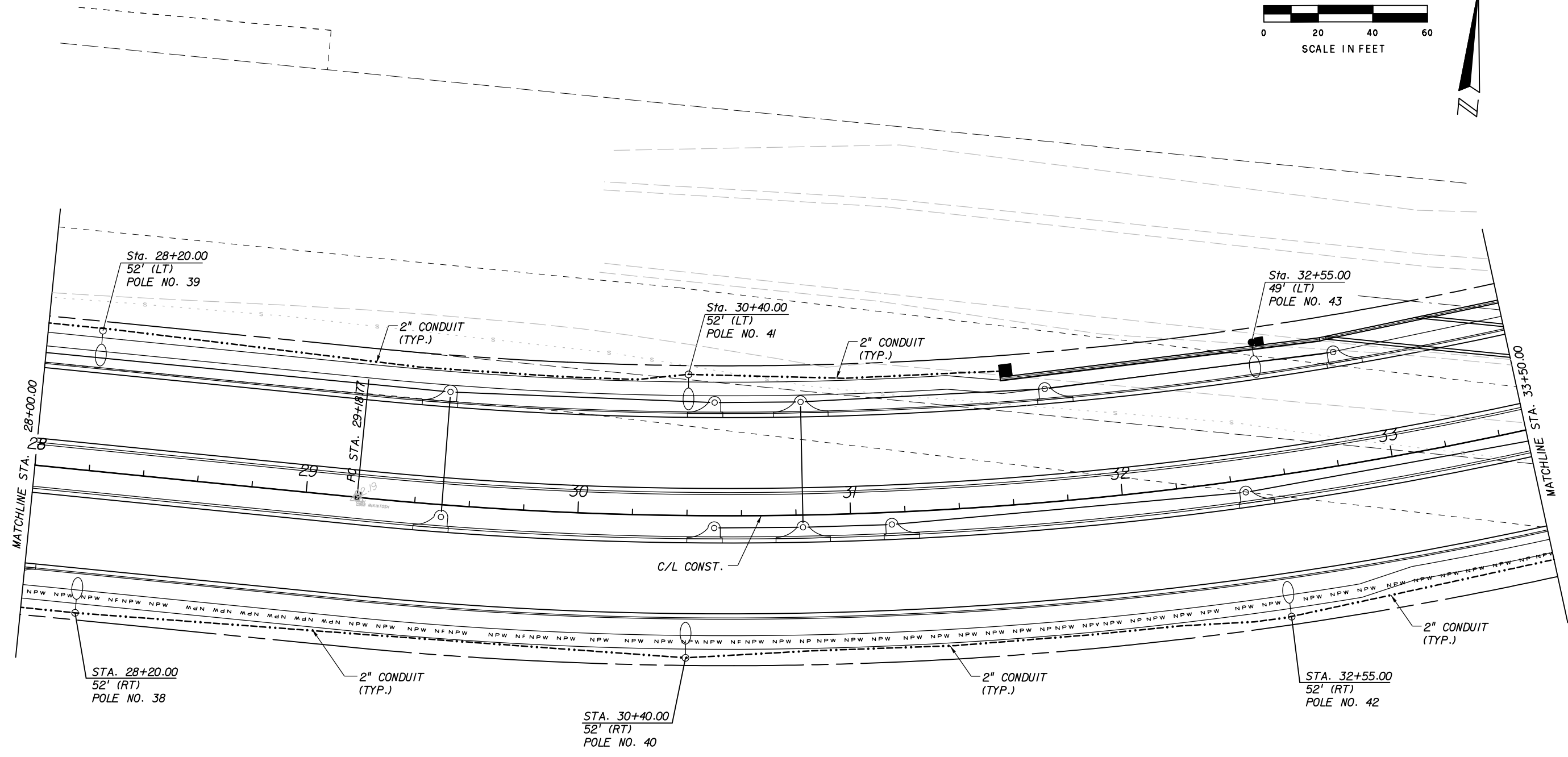
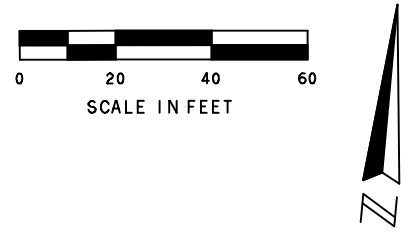
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LIGHTING PLAN
22+50.00 TO 28+00.00

SHEET NO.
 L-4

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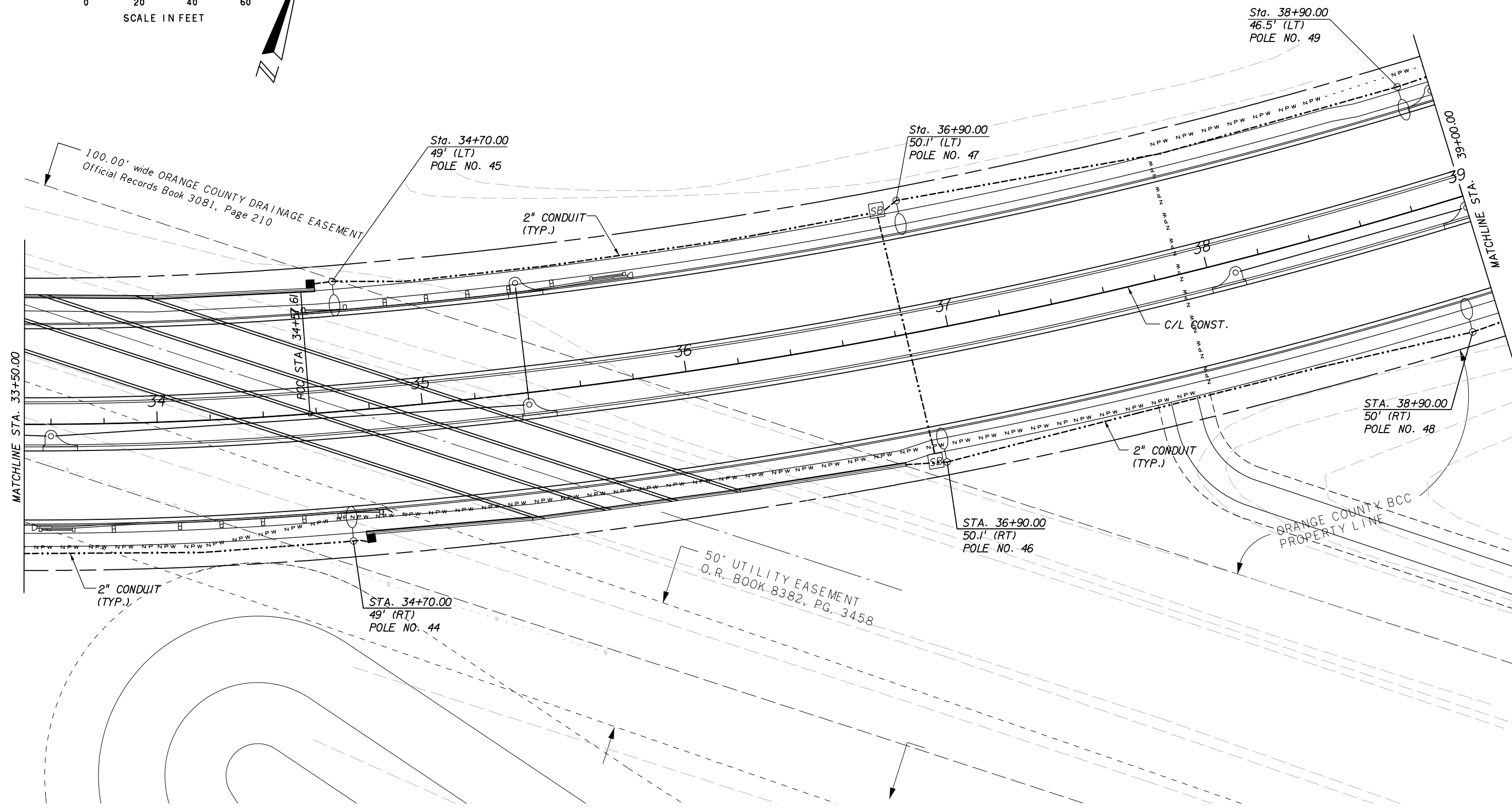
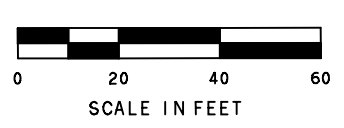


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LIGHTING PLAN
28+00.00 TO 33+50.00

SHEET NO.
 L-5



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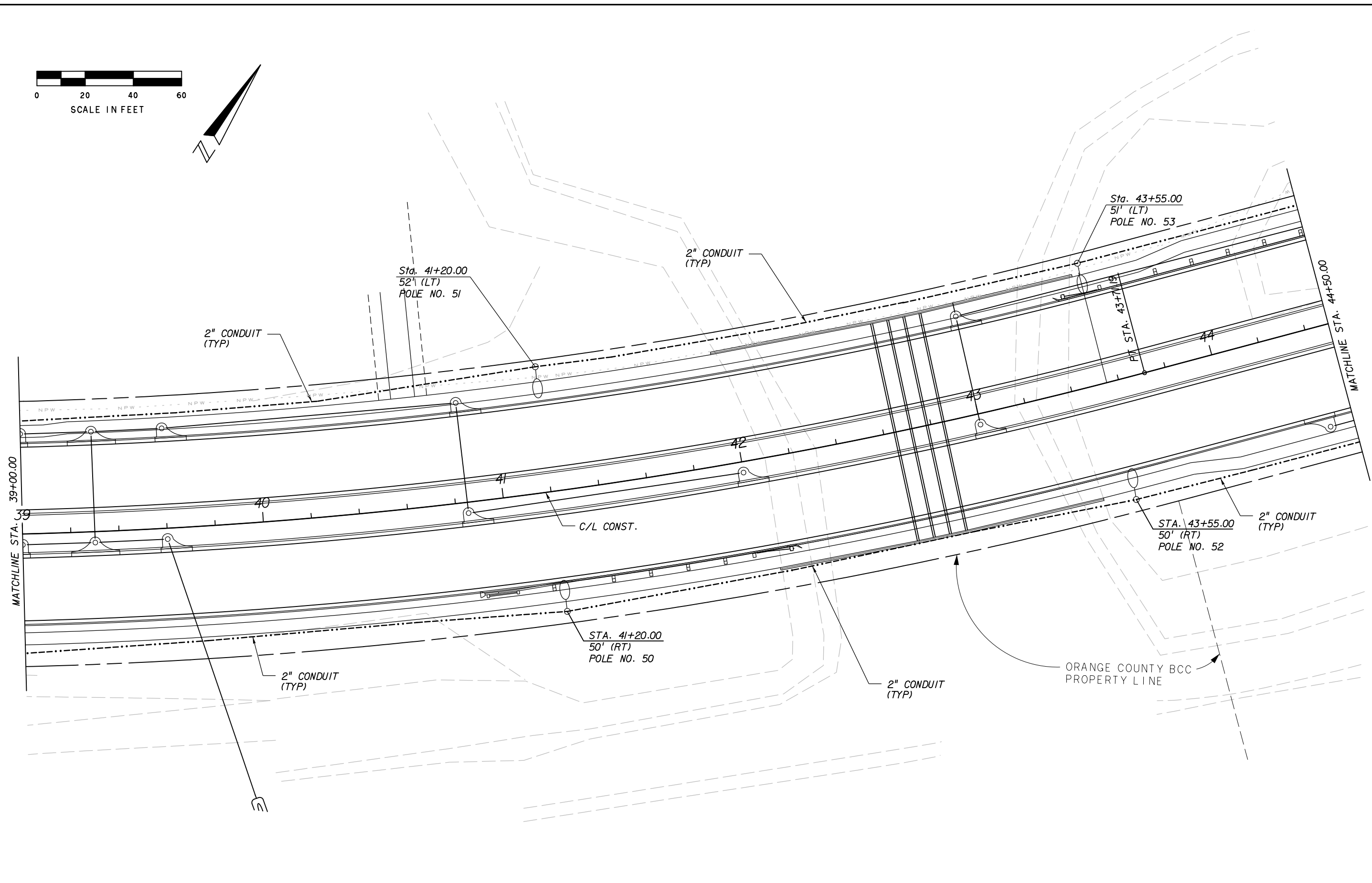
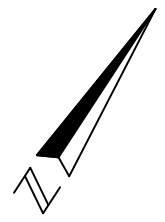
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LIGHTING PLAN
33+50.00 TO 39+00.00

SHEET NO.
 L-6



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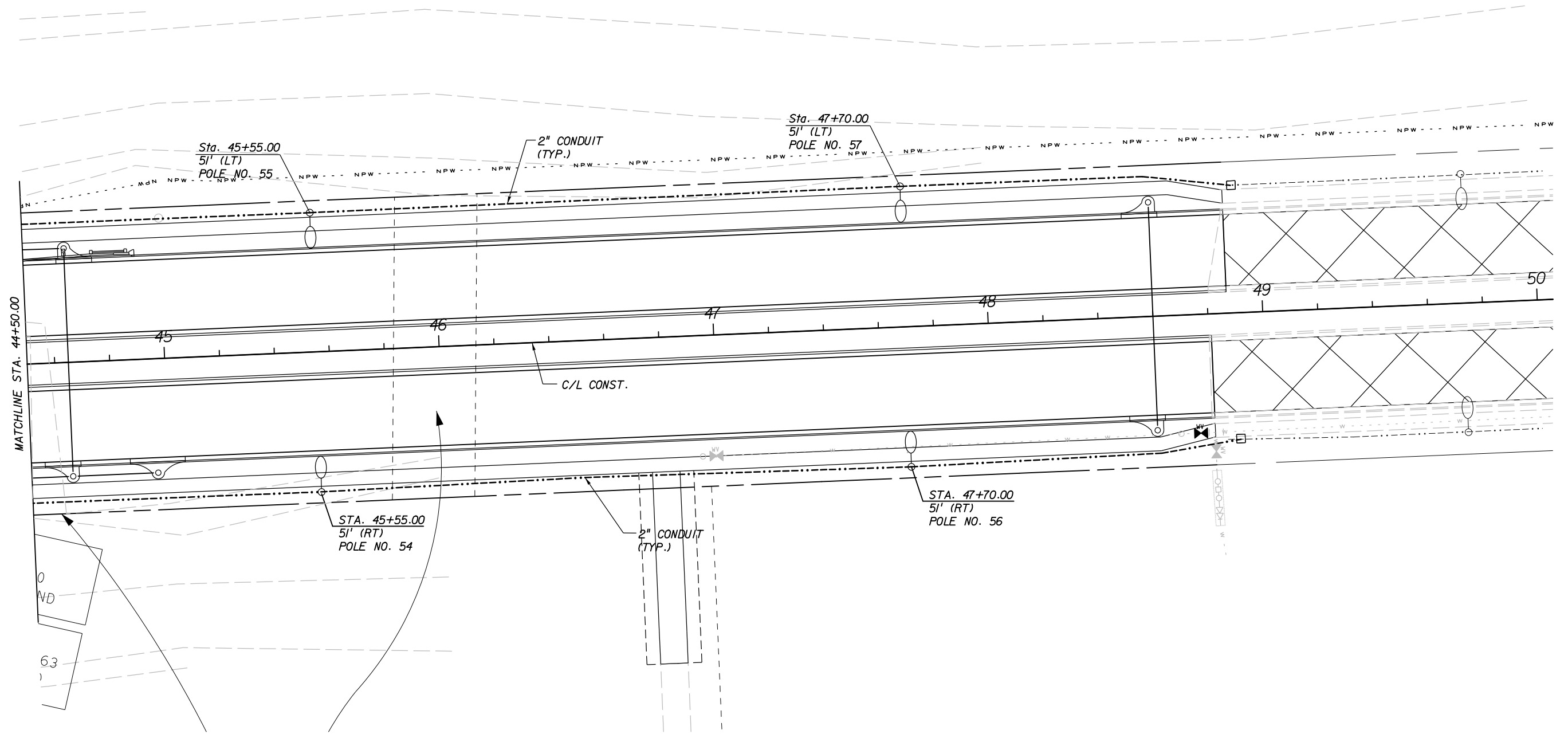
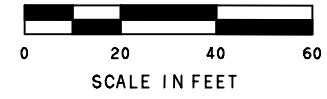
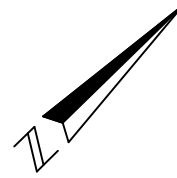


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LIGHTING PLAN
39+00.00 TO 44+50.00

SHEET NO.
 L-7

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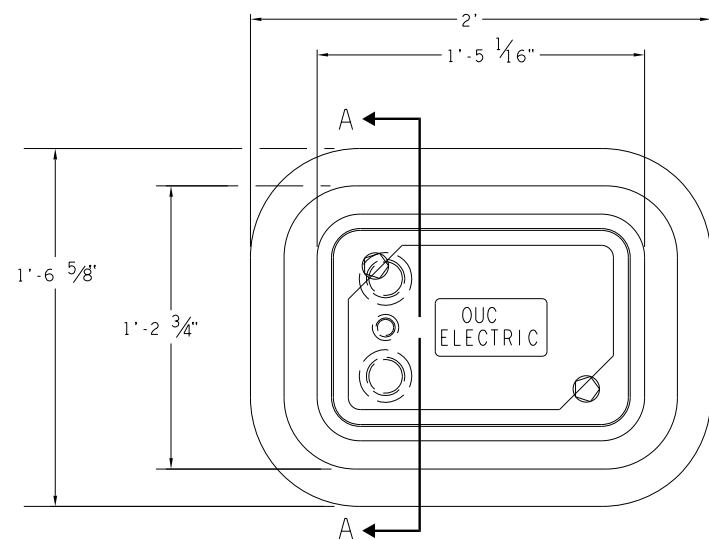


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 CONNECTOR ROADWAY
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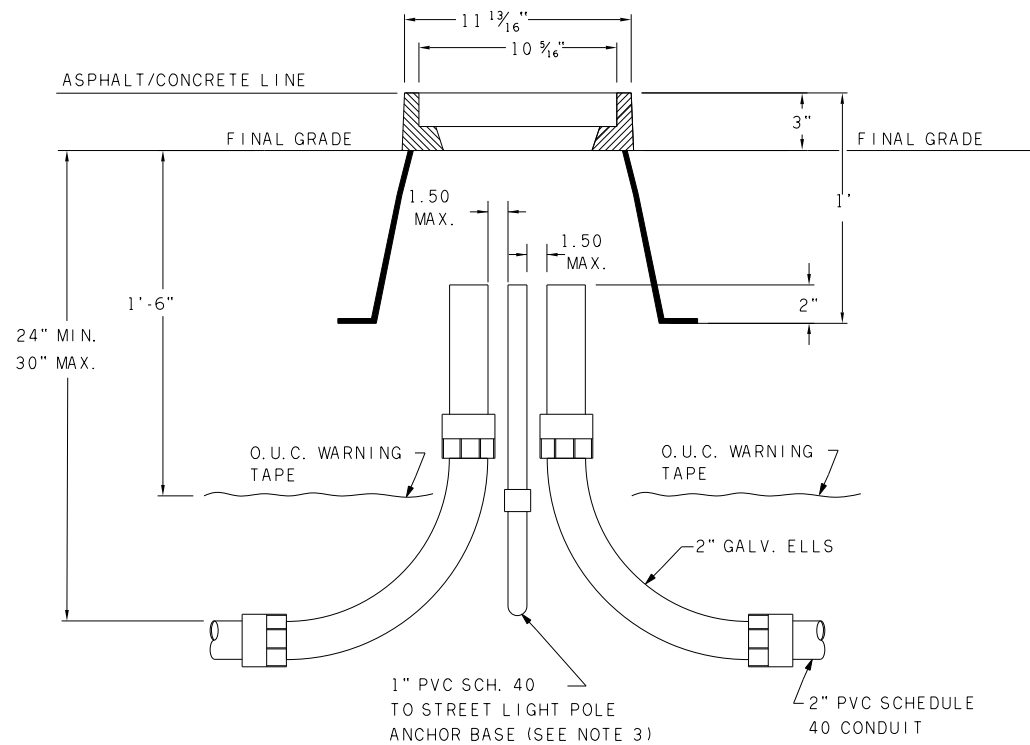
LIGHTING PLAN
44+50.00 TO 49+00.00

SHEET NO.
 L-8

STREET LIGHT JUNCTION BOX



PLAN

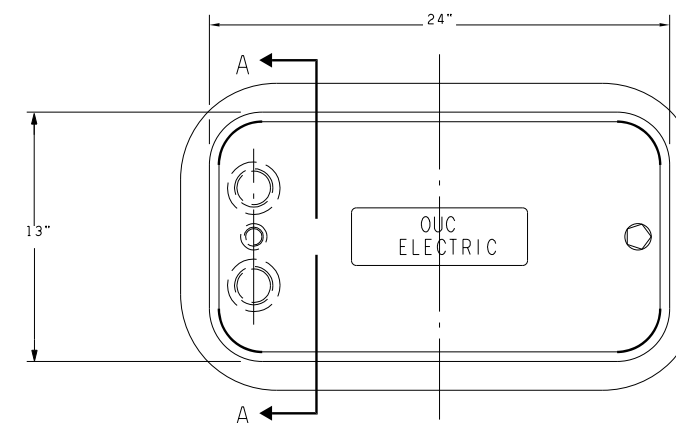


SECTION A-A

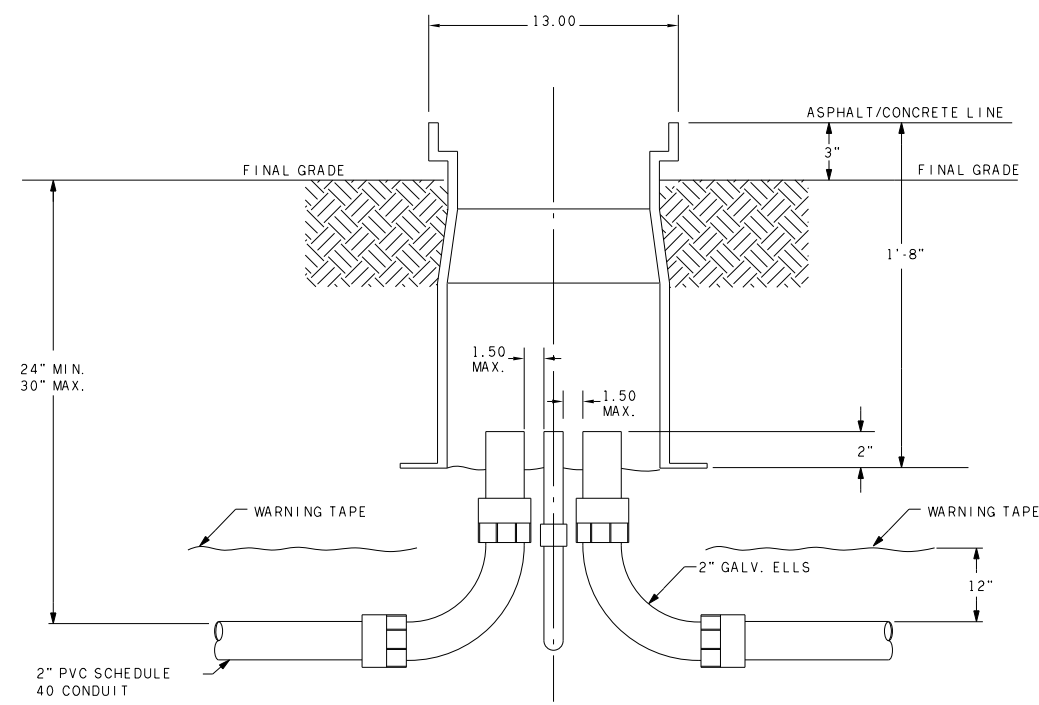
NOTES:

1. BOX AND COVER TO BE OUC STOCK NO. 036-26039
2. IF STREET LIGHT POLE IS 5 OR MORE FEET FROM JUNCTION BOX, THE STREET LIGHT CONDUCTOR MUST BE INSTALLED IN A 1 INCH CONDUIT. IF WIRES UNDER CONCRETE AT ANY POINT BETWEEN BOX & POLE MUST BE IN 1" CONDUIT.
3. ON DIRECT EMBEDMENT POLE INSTALLATIONS USE DIRECT BURY "UF" CONDUCTOR TO POLE.
4. TOP SURFACE OF JUNCTION BOX TO BE 3" ABOVE FINAL GRADE.

LIGHTING SECONDARY JUNCTION BOX



PLAN



SECTION A-A

NOTES:

1. BOX AND COVER TO BE OUC STOCK NO. 046-08000
2. TOP SURFACE OF JUNCTION BOX TO BE 3" ABOVE FINAL GRADE.
3. ALL CONDUIT SHALL EXTEND 2" VERTICALLY ABOVE GROUND.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
4/11/07	WPN	REDESIGN FOR COBRAHEADS			

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LIGHTING DETAILS
 SHEET NO.
 L-9

TABULATION OF SIGNING AND PAVEMENT MARKING QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				GRAND TOTAL	
			S-3		S-4		S-5		S-6		S-7		S-8		S-9		S-10		S-11		S-12		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I, SINGLE DIRECTION	AS															4						4	
700-20-11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS				1										1	5						7	
700-20-12	SINGLE POST SIGN, F&I, 12-25 SF	AS				1													1				2	
700-20-60	SINGLE POST SIGN, REMOVE	AS	4														3		5				12	
700-48-38	SIGN PANELS, OVERLAY, 15 OR LESS	EA	1																				1	
700-48-58	SIGN PANELS, REPLACE, 15 OR LESS	EA				2											1		1				4	
705-11-3	DELINEATOR, FLEXIBLE HIGH VISIBILITY, MEDIAN	EA															2						2	
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	19		40		28		28		28		28		28		50		96		55		400	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND	SF	12		12												24		24				72	
710-90	PAINTED PAVEMENT MARKINGS	LS																					1	
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	255		1020		1100		1100		1100		1100		1100		1520		3529		1008		12832	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF															243		296				539	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF															502		610		24		1136	
711-11-131	THERMOPLASTIC, STANDARD, WHITE, 10'-30' SKIP, 6"	GM	.038		.190		.208		.208		.208		.208		.208		.174		.138				1.580	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2'-4' SKIP, 6"	LF															60						60	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 6'-10' SKIP, 6"	LF															60				20		80	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	3		3												3		15		12		36	
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	340		814		1100		1100		1100		1100		1100		1010		880		529		9073	
711-11-222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 8"	LF															46						46	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF															18						18	
711-17	REMOVE EXISTING RPM'S & THERMOPLASTIC PAVEMENT MARKINGS	LS																					1	

PAY ITEM NOTES:

- 710-90: INCLUDES PAINTED PAVEMENT MARKINGS IN POSITION OF ALL FINAL THERMOPLASTIC MARKINGS DURING FRICTION COURSE CURE
- 717-17: REMOVE PRIOR TO PLACEMENT OF FRICTION COURSE SEE PLAN SHEET 21 FOR LIMITS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: **SUSAN A. GRATCH**
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CONNECTOR ROADWAY

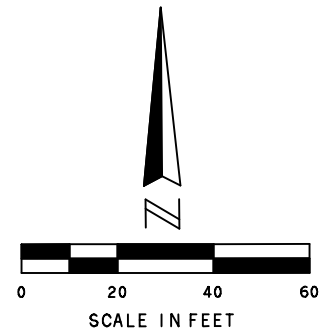
PROJ. NO. 5089 - SEC. 1B/2A

**SIGNING & PAVEMENT MARKING
TABULATION OF QUANTITIES**

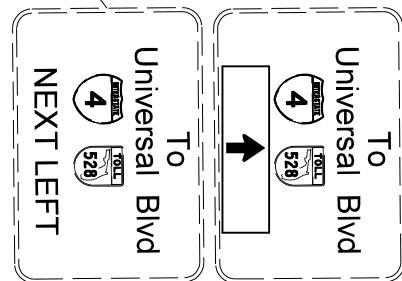
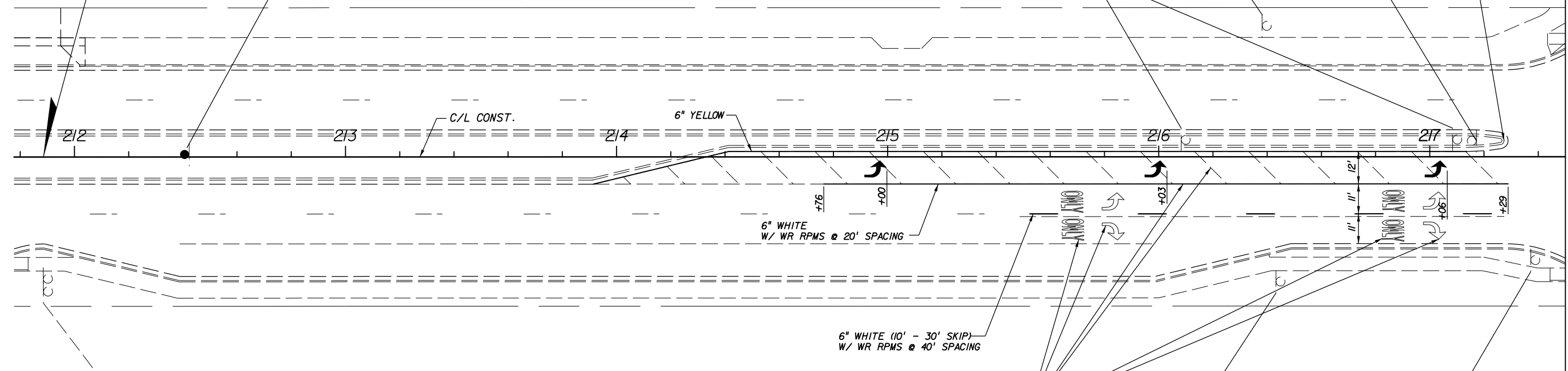
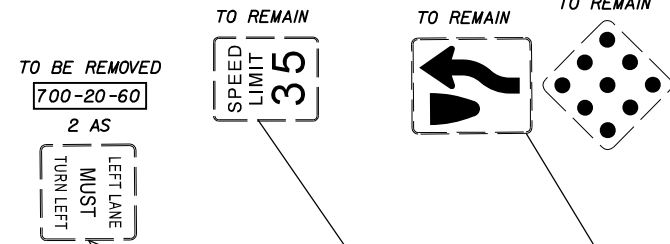
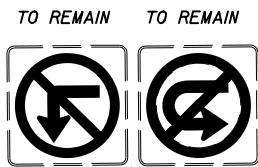
SHEET NO.
S-1

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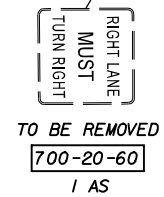
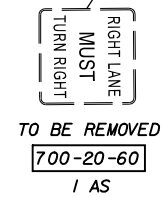
BEGIN SIGNING AND PAV'T MARKINGS
STA. 211+88.50
MATCH EXISTING



PLACE FORWARD ARROW OVERLAY OVER EXISTING "NEXT LEFT" MESSAGE
USE WHITE ARROW FROM M6-3 SIGN PANEL ON GREEN 8" x 44" OVERLAY BACKGROUND

700-48-38 1 EA

REMOVE 8" AND 18" YELLOW STRIPES, 6" WHITE STRIPES, "ONLY" MESSAGES, AND ARROWS BY HIGH PRESSURE WATER BLASTING (TYP.) COST TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.



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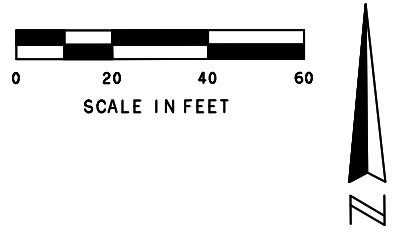
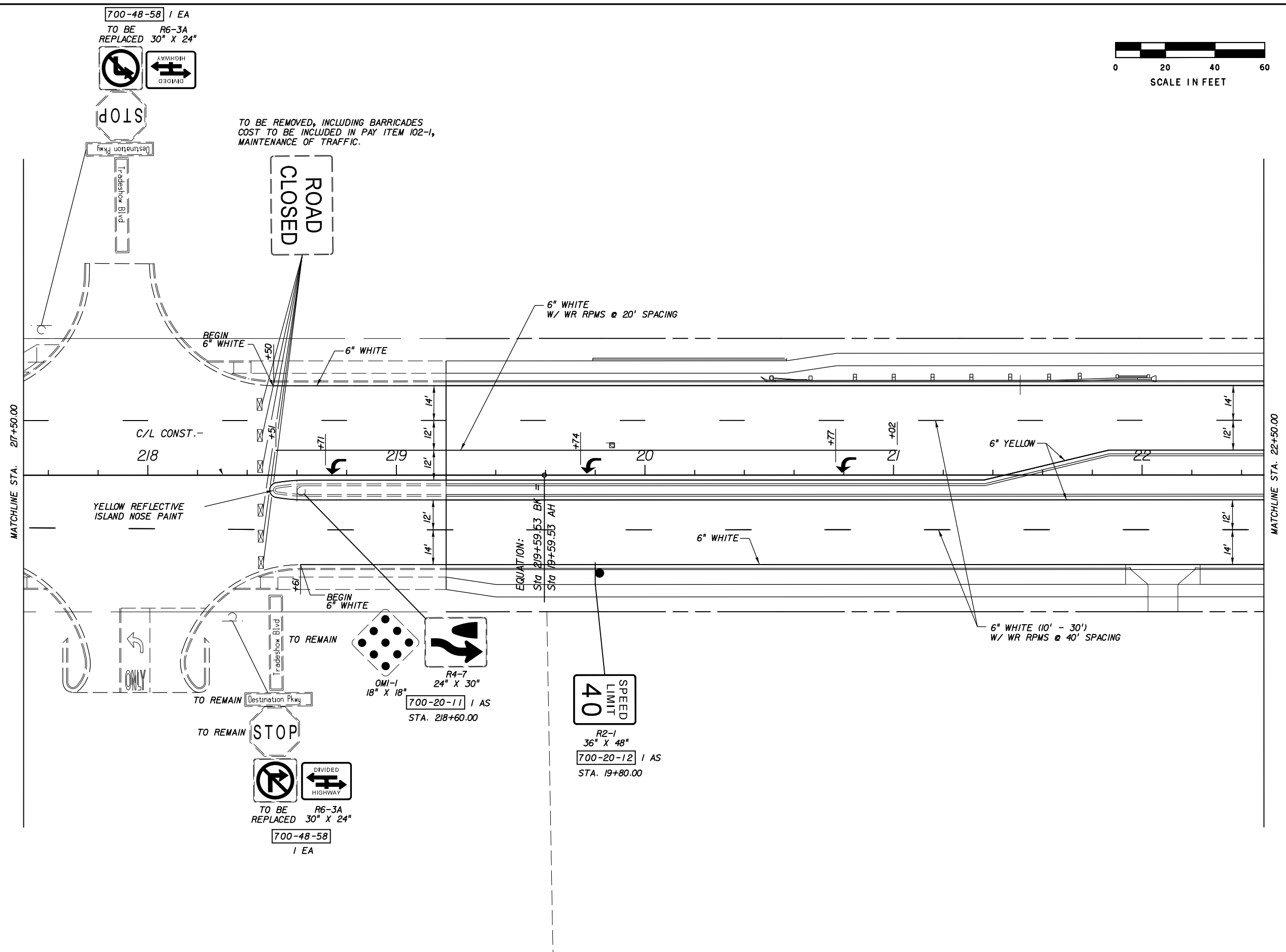
SIGNING & PAVEMENT MARKING
212+00.00 TO 217+00.00

SHEET NO.
S-3

5/4/2016

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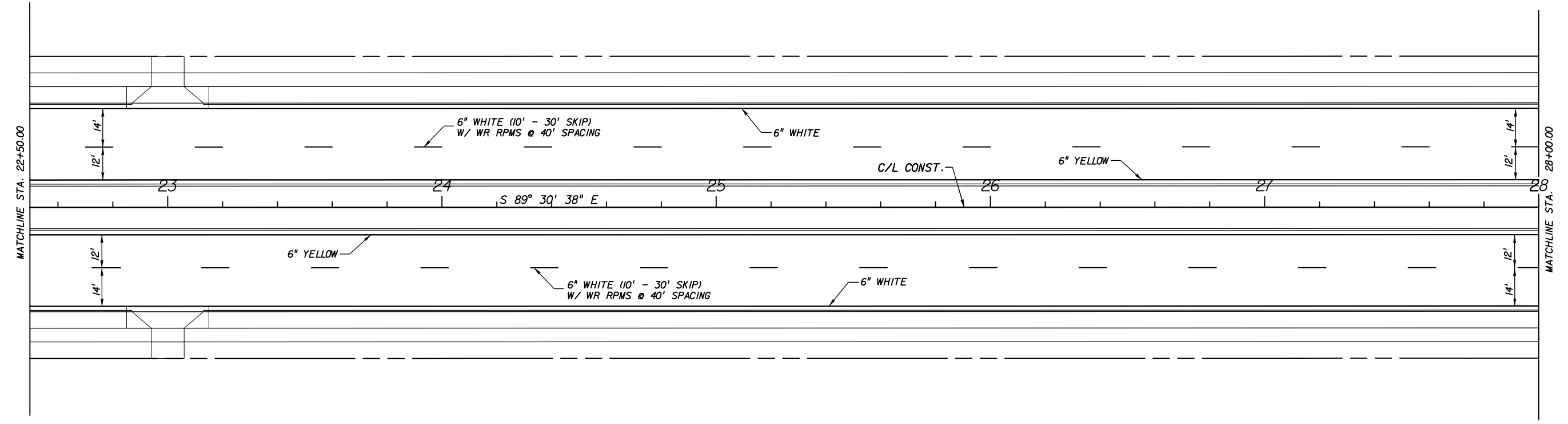
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SIGNING & PAVEMENT MARKING
217+50.00 TO 22+50.00

SHEET NO.
S-4



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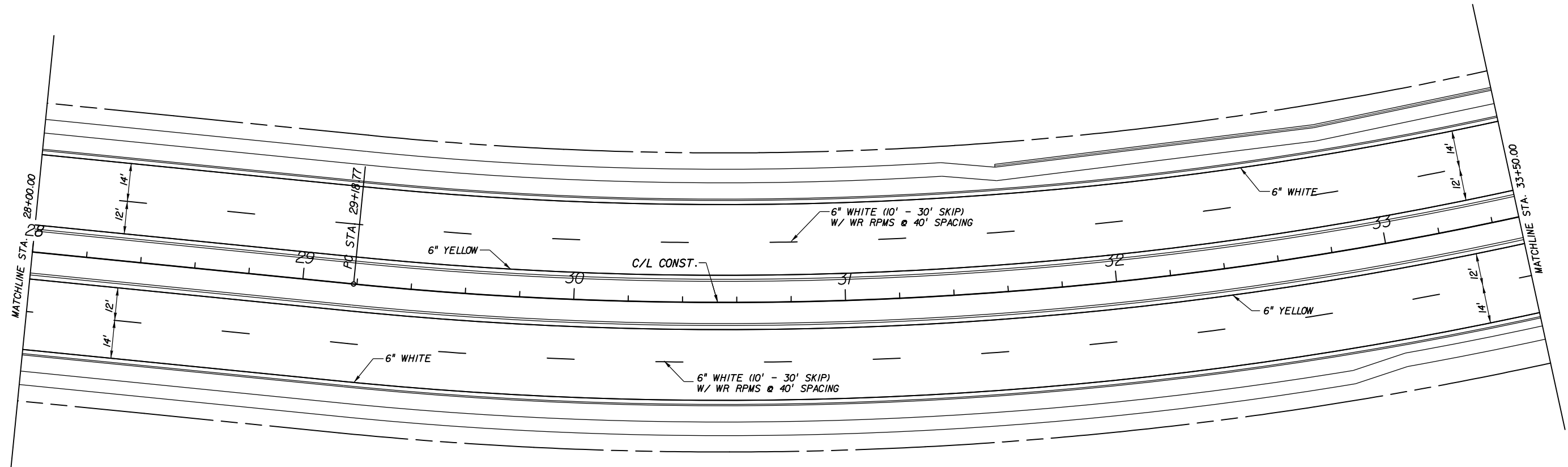
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22+50.00 TO 28+00.00

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 S-5



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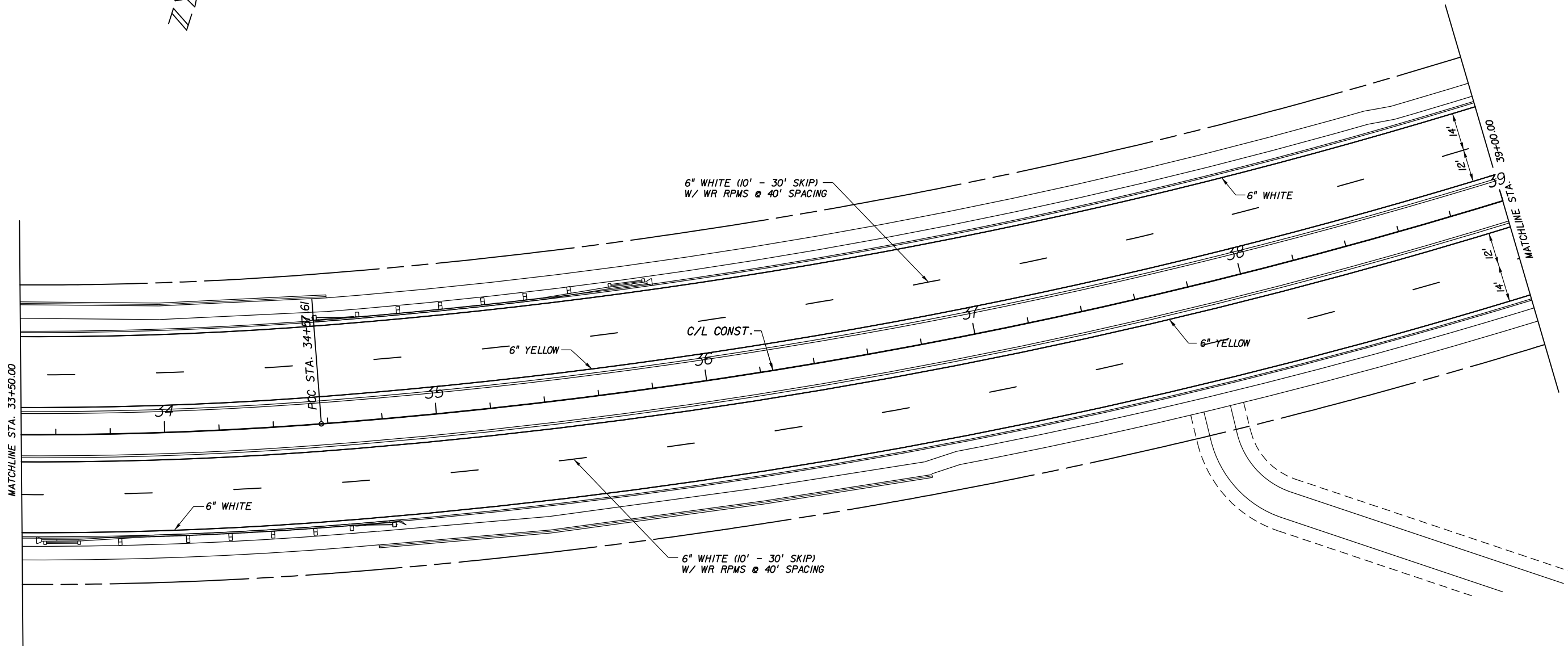
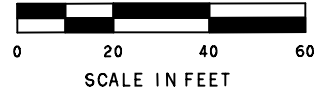
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28+00.00 TO 33+50.00

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 S-6



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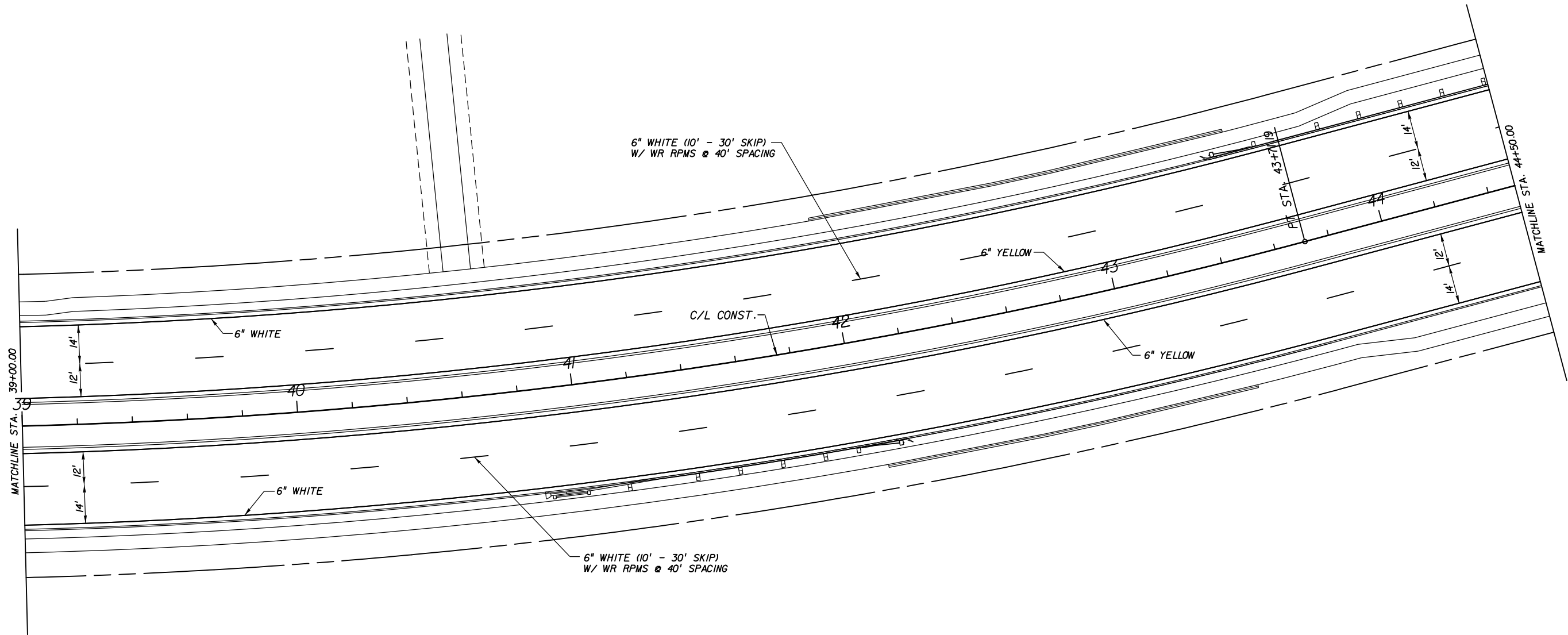
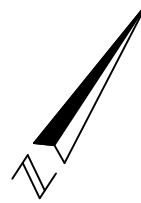
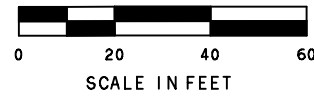
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33+50.00 TO 39+00.00

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: SUSAN A. GRATCH
 P.E. #40134
ATKINS
 License No. 24
 482 South Keller Road
 Orlando, FL 32810
 (407) 647-7275
 www.pbsj.com

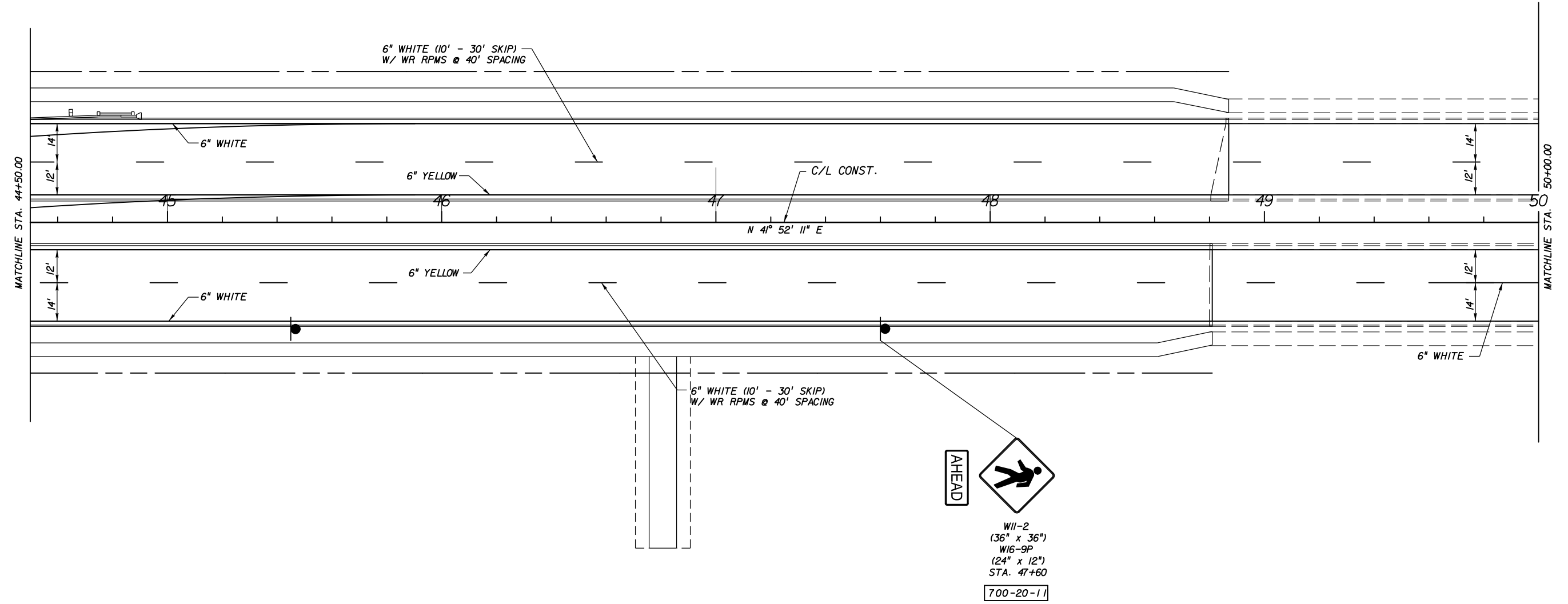
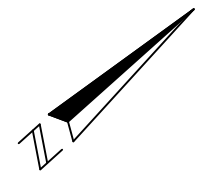


CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B/2A

SIGNING & PAVEMENT MARKING
39+00.00 TO 44+50.00

SHEET NO.
 S-8

5/4/2016 11:42:05 AM T:\Cadd\JYPConnectorRd\Section1B\signing\plansp106_REV.dgn



AHEAD

W11-2
(36" x 36")
W16-9P
(24" x 12")
STA. 47+60
700-20-11

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record:
ATKINS
 License No. 24

SUSAN A. GRATCH
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 482 South Keller Road
 Orlando, FL 32810
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CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY

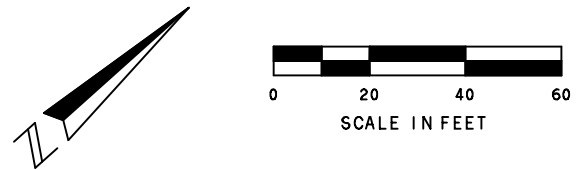
PROJ. NO. 5089 - SEC. 1B/2A

SIGNING & PAVEMENT MARKING
 44+50.00 TO 50+00.00

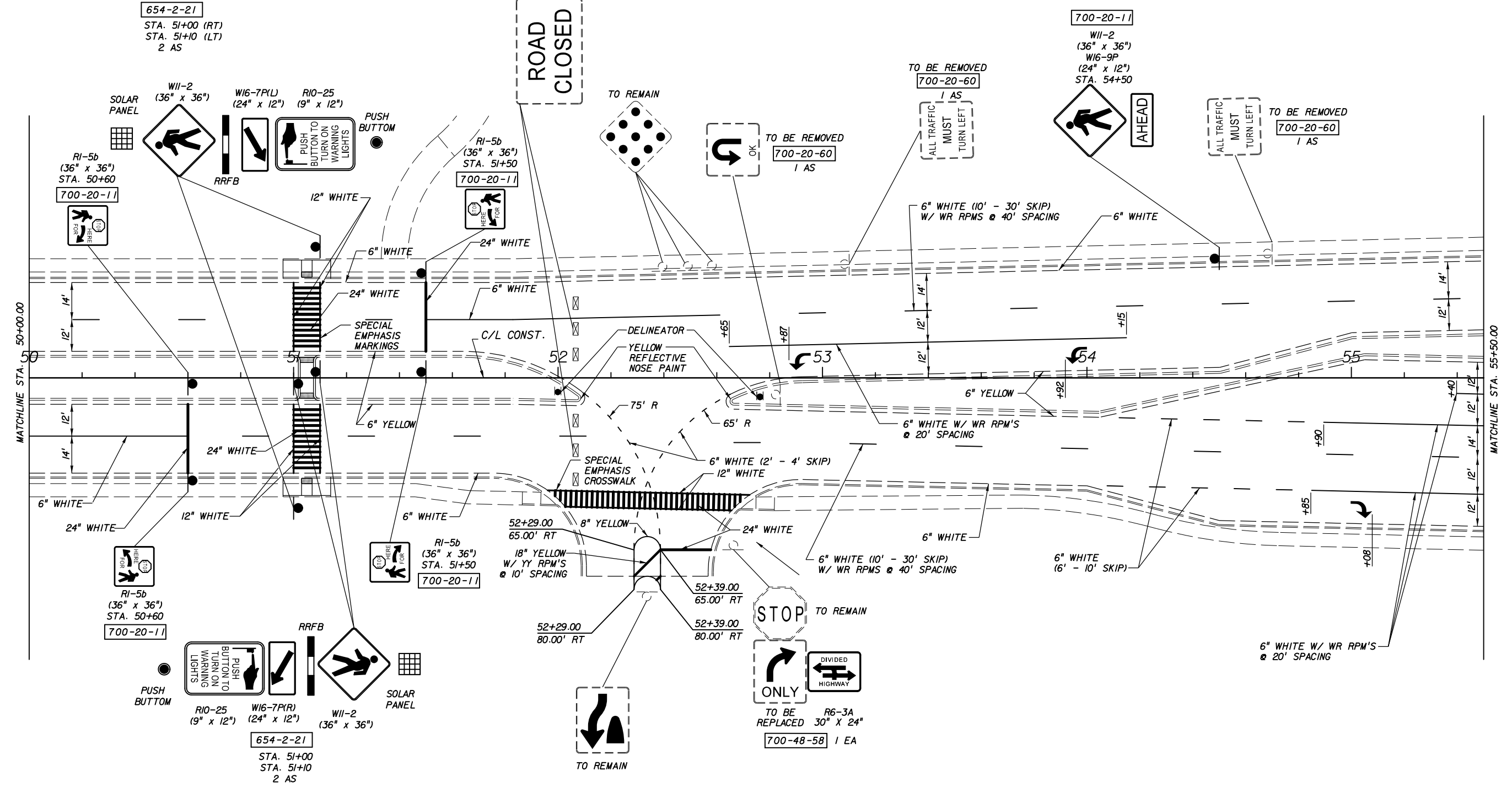
SHEET NO.
 S-9

5/4/2016
11:42:05 AM

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TO BE REMOVED, INCLUDING BARRICADES
COST TO BE INCLUDED IN PAY ITEM 102-1,
MAINTENANCE OF TRAFFIC.



NOTE:
SOLAR POWERED RECTANGULAR
FLASHING BEACON PER INDEX 11862

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ATKINS
License No. 24

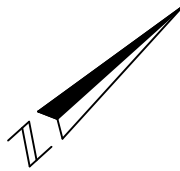
SUSAN A. GRATCH
P.E. #40134
482 South Keller Road
Orlando, FL 32810
(407) 647-7275
www.pbsj.com



CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

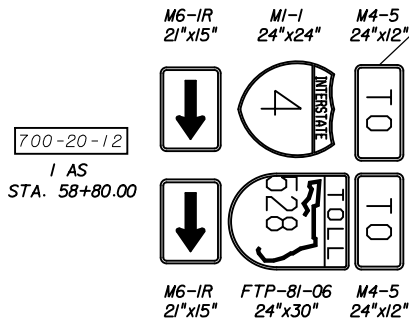
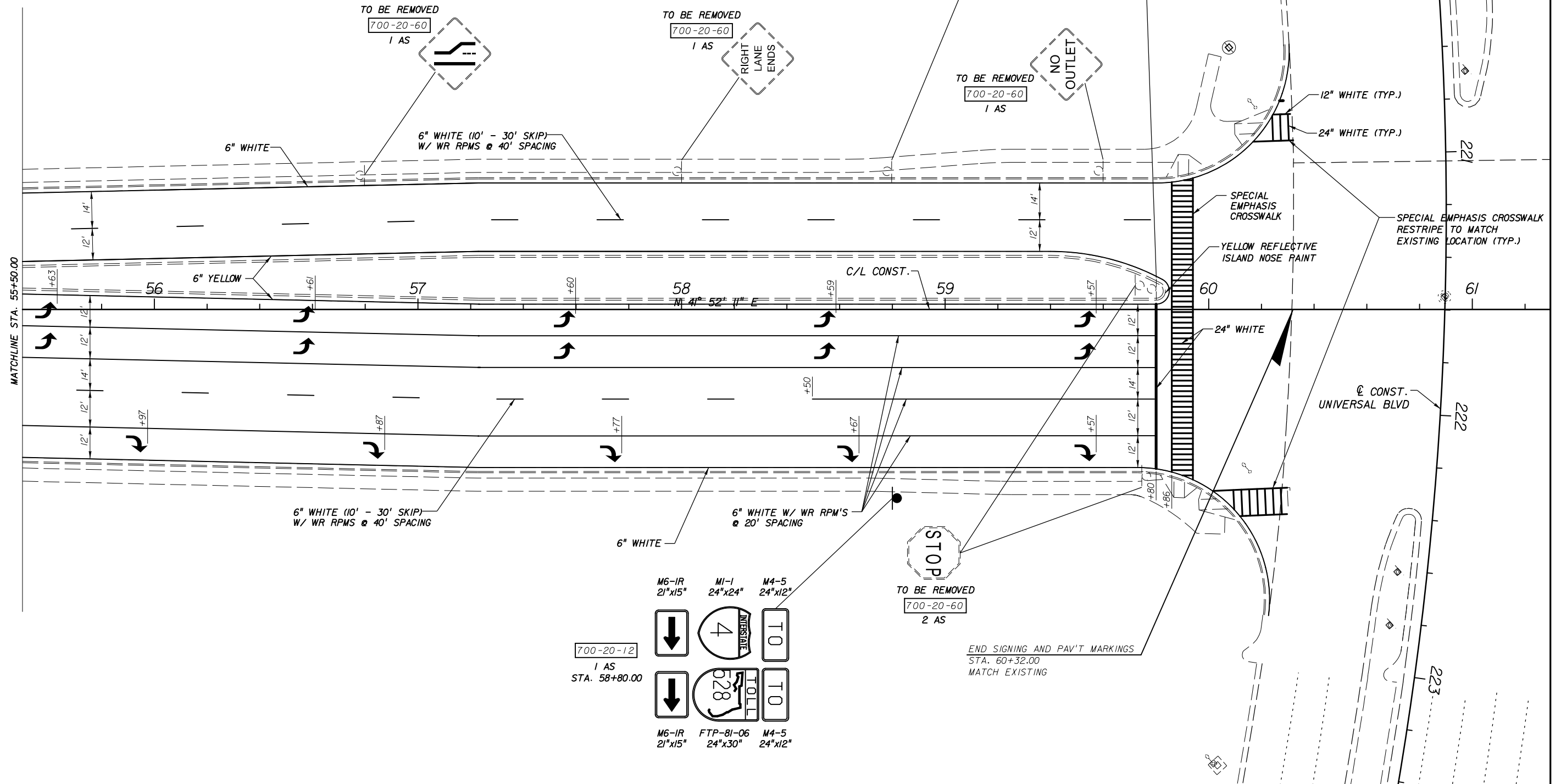
SIGNING & PAVEMENT MARKING
50+00.00 TO 55+50.00

SHEET NO.
S-10



NOTE:

ORANGE COUNTY TRAFFIC ENGINEERING WILL MODIFY THE OPERATION OF THE TRAFFIC SIGNAL AT UNIVERSAL BOULEVARD/DESTINATION PARKWAY FROM FLASHING OPERATION TO FULL 8 PHASE TRAFFIC ACTUATED OPERATION PRIOR TO THE OPENING OF DESTINATION PARKWAY SECTION IB/2A. THE CONTRACTOR SHALL CONTACT ROGER SMITH (407-836-7804) TO COORDINATE THE CHANGE IN TRAFFIC SIGNAL OPERATION WITH THE OPENING OF THE ROAD.



END SIGNING AND PAV'T MARKINGS
STA. 60+32.00
MATCH EXISTING

5/4/2016
11:42:06 AM

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: SUSAN A. GRATCH
P.E. #40134

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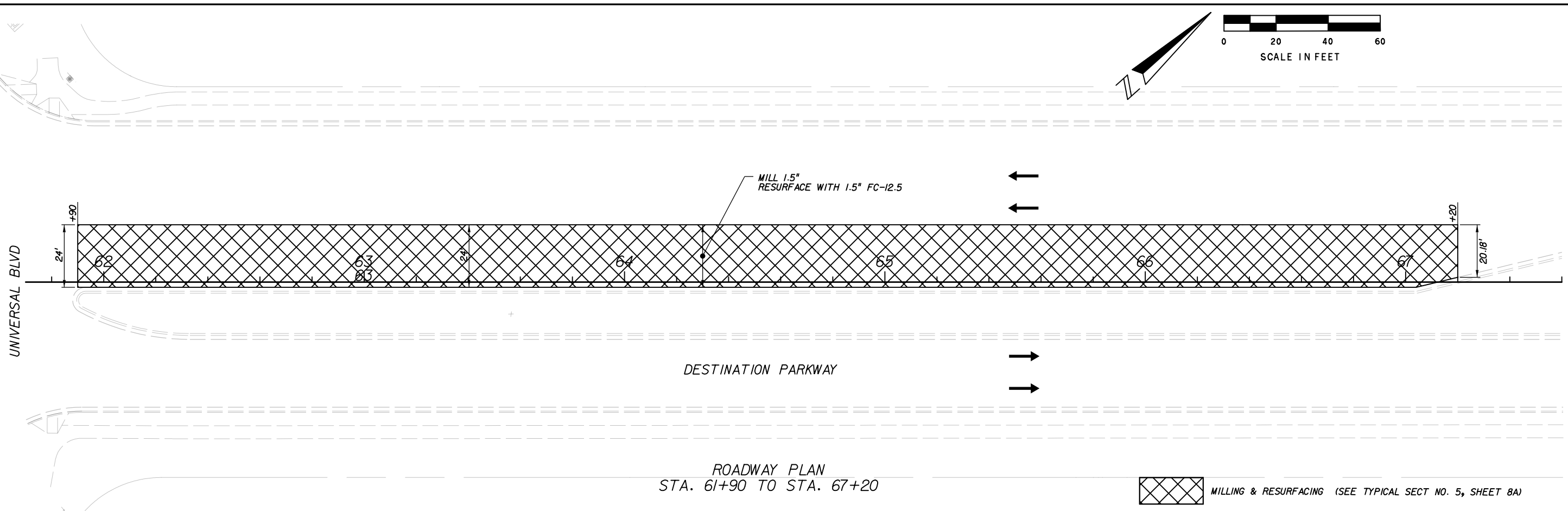
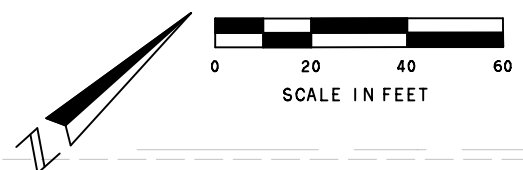


CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY

PROJ. NO. 5089 - SEC. IB/2A

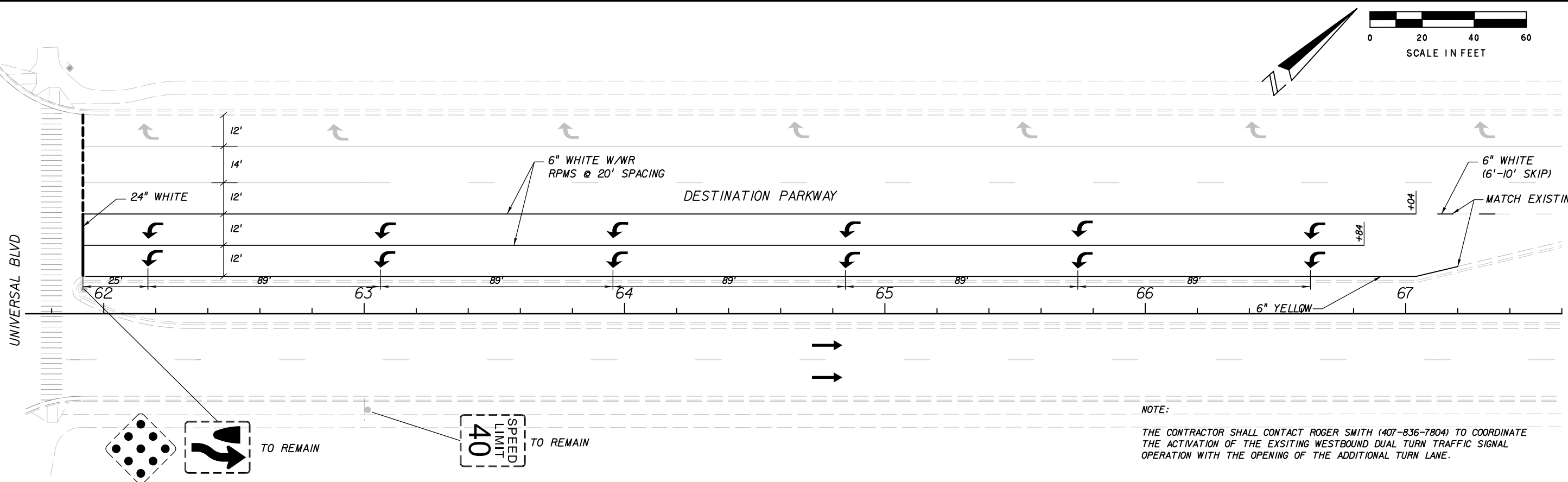
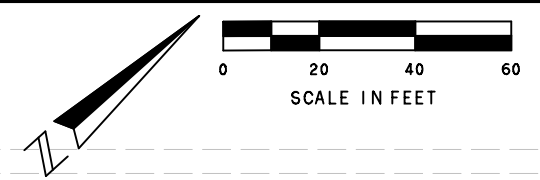
SIGNING & PAVEMENT MARKING
55+50.00 TO 61+00.00

SHEET NO.
S-II



ROADWAY PLAN
STA. 61+90 TO STA. 67+20

MILLING & RESURFACING (SEE TYPICAL SECT NO. 5, SHEET 8A)



NOTE:
THE CONTRACTOR SHALL CONTACT ROGER SMITH (407-836-7804) TO COORDINATE THE ACTIVATION OF THE EXSITING WESTBOUND DUAL TURN TRAFFIC SIGNAL OPERATION WITH THE OPENING OF THE ADDITIONAL TURN LANE.

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REVISIONS					
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Engineer of Record:
ATKINS
License No. 24



CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B/2A

**ROADWAY PLAN AND
SIGN AND PAVEMENT MARKING
(WB APPROACHING UNIVERSAL BLVD)
61+90.00 TO 67+20.00**

SHEET NO.
S-12

1) THE SIGNALIZATION PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S DESIGN STANDARDS, DATED 2007. GOVERNING SPECIFICATIONS ARE THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, DATED 2007 AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.

2) THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.

3) WHENEVER SIGNAL WORK IS BEING PERFORMED AT AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT, INSTALLING LOOPS AND RUNS, AND TURNING ON NEW SIGNALS) WHERE A LANE IS CLOSED A TRAFFIC CONTROL OFFICER SHALL DIRECT TRAFFIC. THE COST OF THE OFF-DUTY TRAFFIC CONTROL OFFICER SHALL BE REQUIRED.

4) DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN 30 FEET (9 METERS) OF THE ROADWAY CARRYING TRAFFIC. IF THE ABOVE IS NOT POSSIBLE, A STORAGE AREA WITH PROPER DELINEATION AND ADVANCED WARNING SHALL BE USED WITH THE APPROVAL OF THE ENGINEER.

5) AT THE TIME OF FINAL PROJECT INSPECTION THE CONTRACTOR SHALL FURNISH TO THE INSPECTOR THREE COMPLETE SETS OF AS-BUILT PLANS. ONE SET SHALL BE LEFT IN THE CABINET FOR THE LOCAL MAINTAINING AGENCY, ORANGE COUNTY.

6) THE CONTRACTOR SHALL NOTIFY ORANGE COUNTY TRAFFIC OPERATIONS (407-836-7890) AT LEAST 24 HOURS IN ADVANCE OF INSTALLING GROUND RODS OR UNDERGROUND CONDUIT, SO THAT THESE OPERATIONS MAY BE OBSERVED.

7) IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT SPECIFICATIONS.

8) AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.

9) ALL CONDUITS TO BE INSTALLED UNDER PAVEMENT OR SIDEWALK SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE COURSE.

10) ALL CONDUIT SHALL BE SCHEDULE 40, 2 INCH (5 CM) DIA. MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.

11) ALL ENDS OF CONDUITS IN PULL BOXES AND CABINETS SHALL BE SEALED WITH ELECTRICAL PUTTY AFTER WIRING IS COMPLETE.

12) ALL CONDUIT SHALL HAVE PULL WIRE AND TRACER WIRE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS 630-3.1 AND 630-3.1.2, RESPECTIVELY. COST OF PULL WIRE AND TRACER WIRE TO BE INCLUDED IN THE COST OF THE CONDUIT.

13) TWO SPARE CABINET CONDUITS SHALL BE STUBBED AND CAPPED IN THE NEAREST PULL BOX.

14) PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 7 FEET (2.1 METERS) FROM THE EDGE OF PAVEMENT.

15) UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.

16) UNDER NO CIRCUMSTANCES SHALL ENERGIZED CABLE AND/OR FIBER OPTIC CABLE BE PLACED IN THE SAME CONDUIT OR PULL BOX AS LOOP LEAD-IN CABLE.


17) ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP DESIGNED TO PROVIDE A FIRM HOLD ON THE EXTERIOR COVERING OF THE CABLE. A WINCH WITH A SLIP CLUTCH SHALL BE USED TO INSURE THAT THE ALLOWABLE TENSION UNIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.

18) ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.

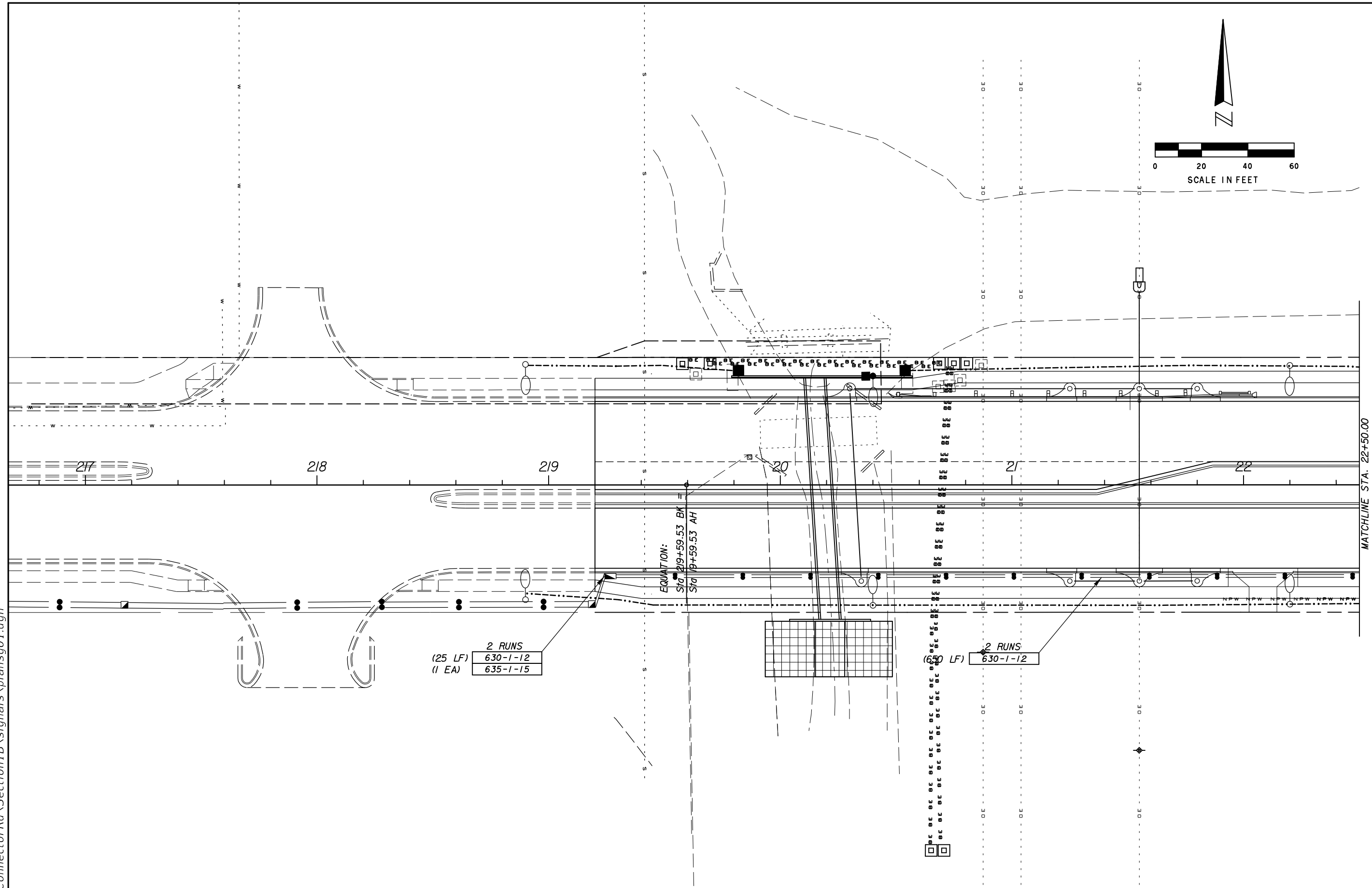
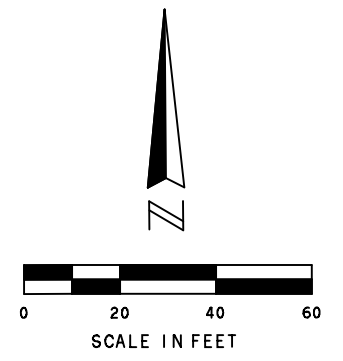
19) A MANUAL PUSH CORD SHALL BE FURNISHED PER FDOT SPECIFICATION 676-3.3.

20) ANY EXISTING LOOP DETECTORS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. LOOP DETECTORS ARE PRESENT AT EB & WB APPROACHES TO UNIVERSAL BLVD. TEMPORARY DETECTION WILL BE REQUIRED WHENEVER REPAIRS CANNOT BE MADE IN A TIMELY FASHION.

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REVISIONS						Engineer of Record:	 ORANGE COUNTY GOVERNMENT FLORIDA	CANADIAN COURT/ JOHN YOUNG PARKWAY CONNECTOR ROADWAY PROJ. NO. 5089 - SEC. 1B	INTERCONNECT GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	T-2				
						ATKINS License No. 24	Susan A. Gratch P.E. # 40134 482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.pbsj.com			

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

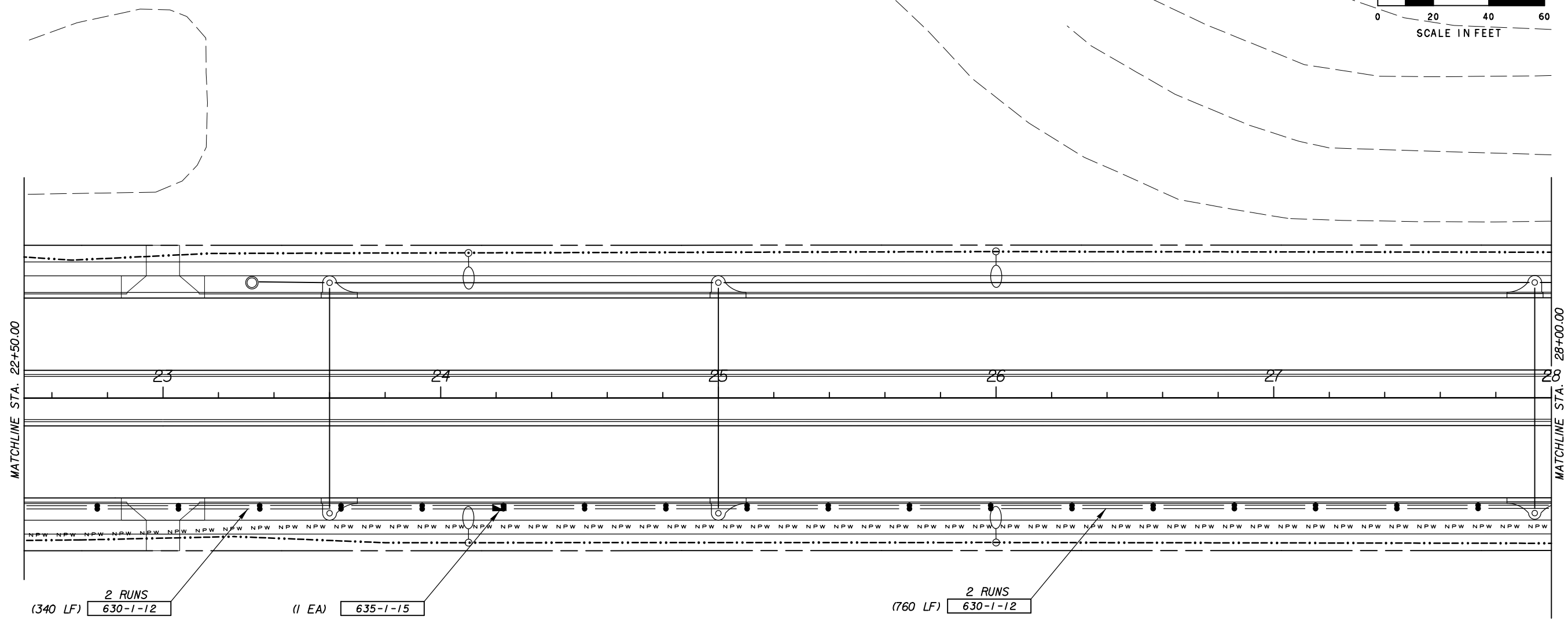
Engineer of Record: Susan A. Gratch
P.E. # 40134
ATKINS
License No. 24
482 South Keller Road
Orlando, FL 32810
(407) 647-7275
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CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B

INTERCONNECT PLAN

SHEET NO.
T-3



5/4/2016 11:42:09 AM
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		T-3			

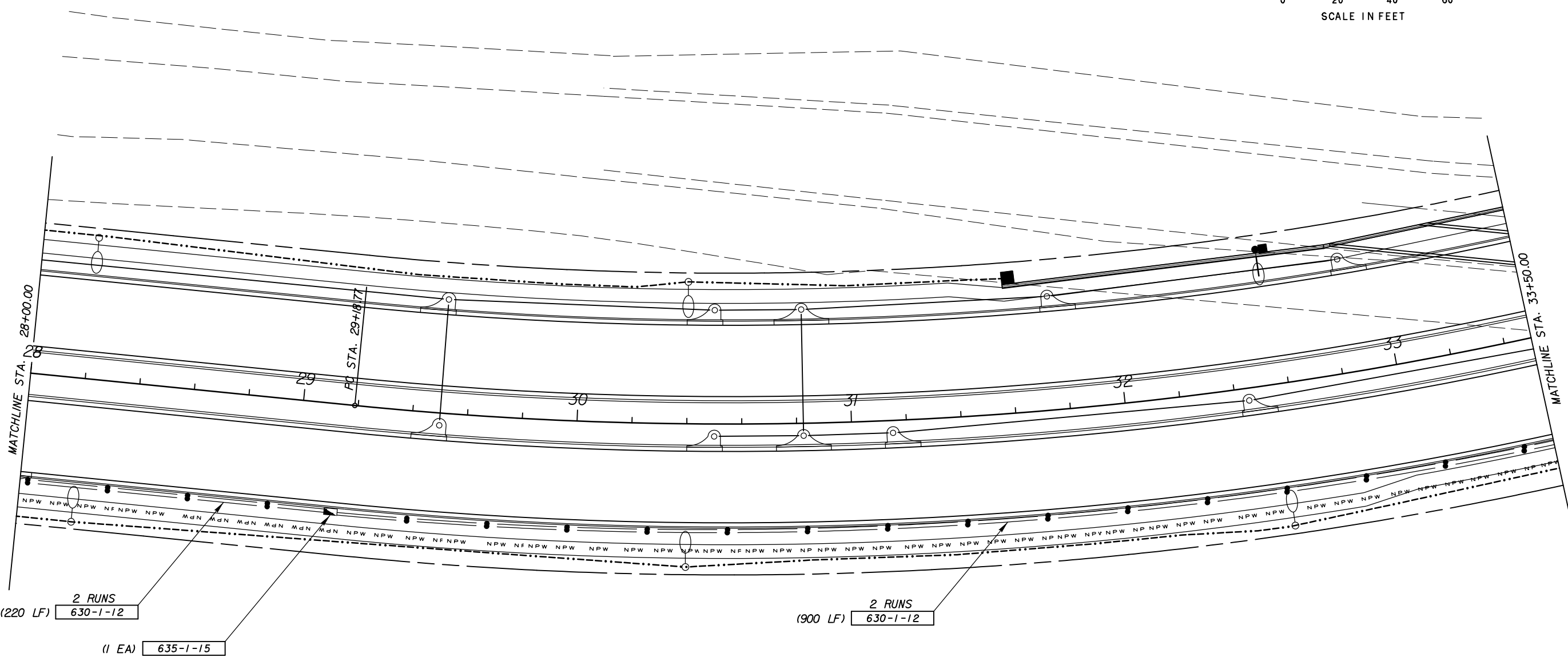
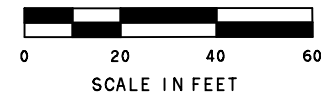
Engineer of Record: Susan A. Gratch
 P.E. # 40134
ATKINS
 License No. 24
 482 South Keller Road
 Orlando, FL 32810
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CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B

INTERCONNECT PLAN

SHEET NO.
 T-4



5/4/2016 11:42:09 AM
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ATKINS
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CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B

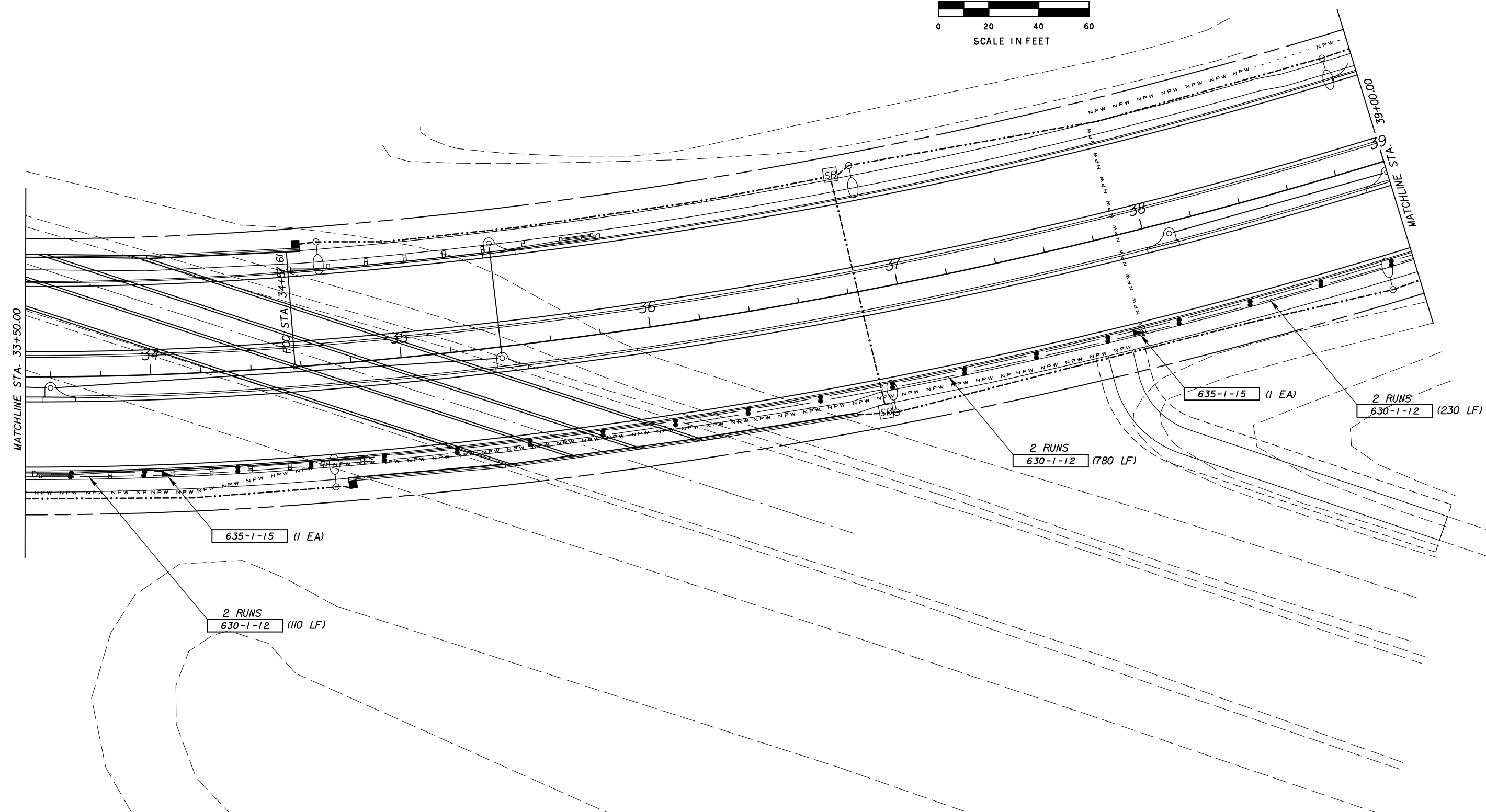
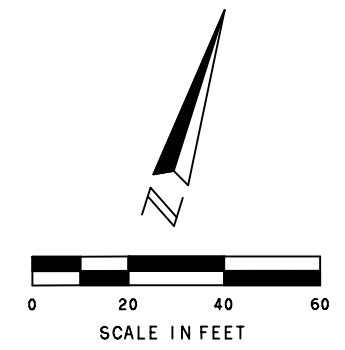
INTERCONNECT PLAN

SHEET NO.
 T-5

5/4/2016

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Engineer of Record: Susan A. Gratch
P.E. # 40134
ATKINS
License No. 24
482 South Keller Road
Orlando, FL 32810
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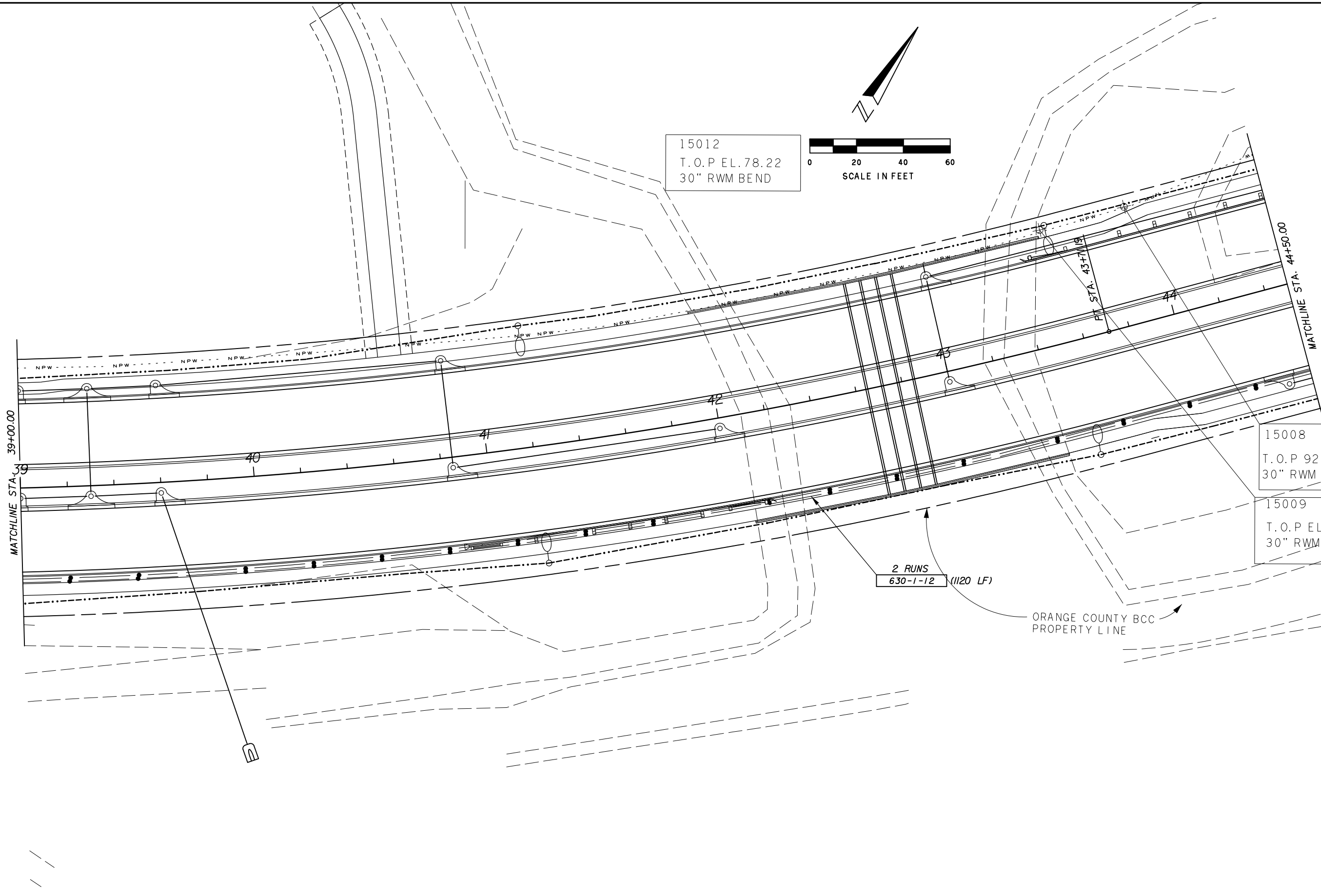


CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B

INTERCONNECT PLAN

SHEET NO.
T-6

5/4/2016 11:42:10 AM
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REVISIONS					
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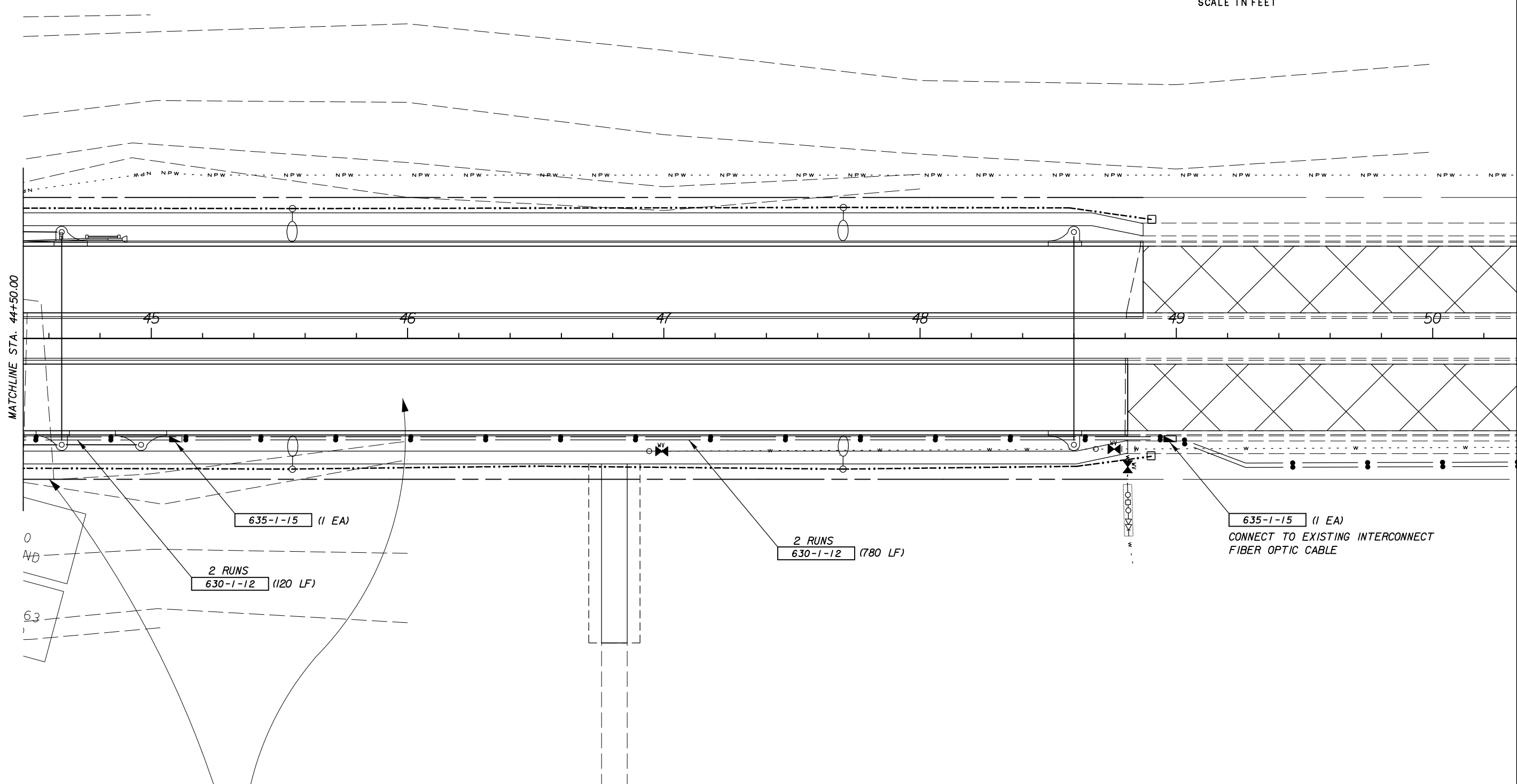
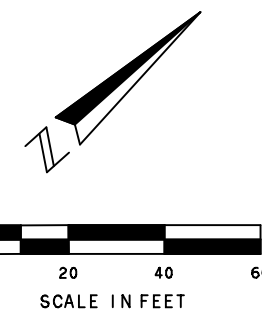
Engineer of Record: Susan A. Gratch
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CANADIAN COURT/
 JOHN YOUNG PARKWAY
 CONNECTOR ROADWAY
 PROJ. NO. 5089 - SEC. 1B

INTERCONNECT PLAN

SHEET NO.
 T-7



MATCHLINE STA. 44+50.00

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635-1-15 (1 EA)
2 RUNS
630-1-12 (120 LF)

2 RUNS
630-1-12 (780 LF)

635-1-15 (1 EA)
CONNECT TO EXISTING INTERCONNECT
FIBER OPTIC CABLE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

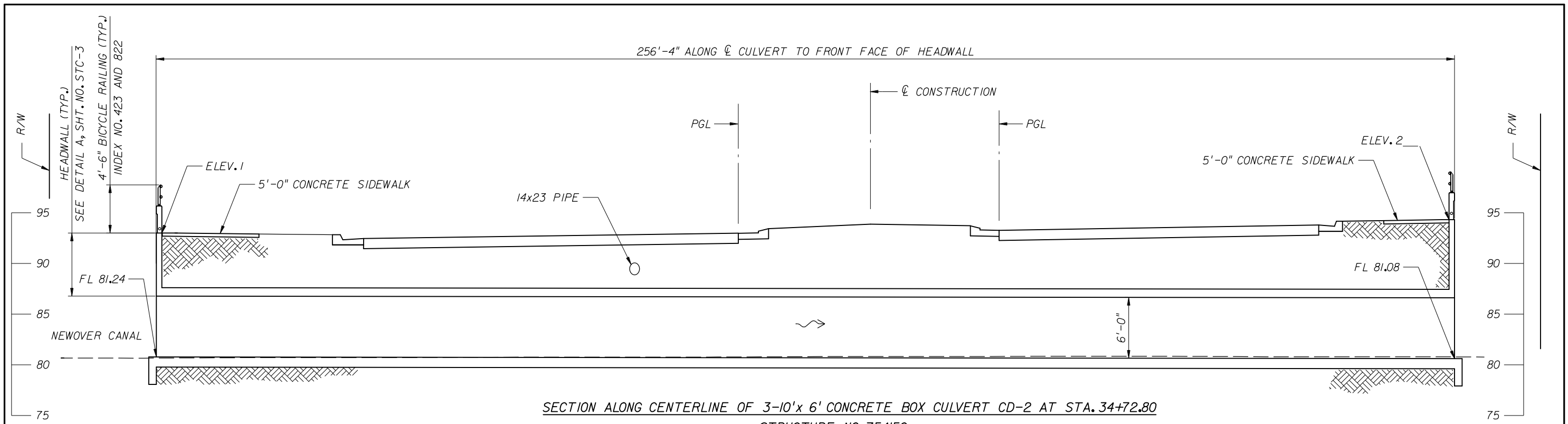
Engineer of Record: Susan A. Gratch
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License No. 24
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CANADIAN COURT/
JOHN YOUNG PARKWAY
CONNECTOR ROADWAY
PROJ. NO. 5089 - SEC. 1B

INTERCONNECT PLAN

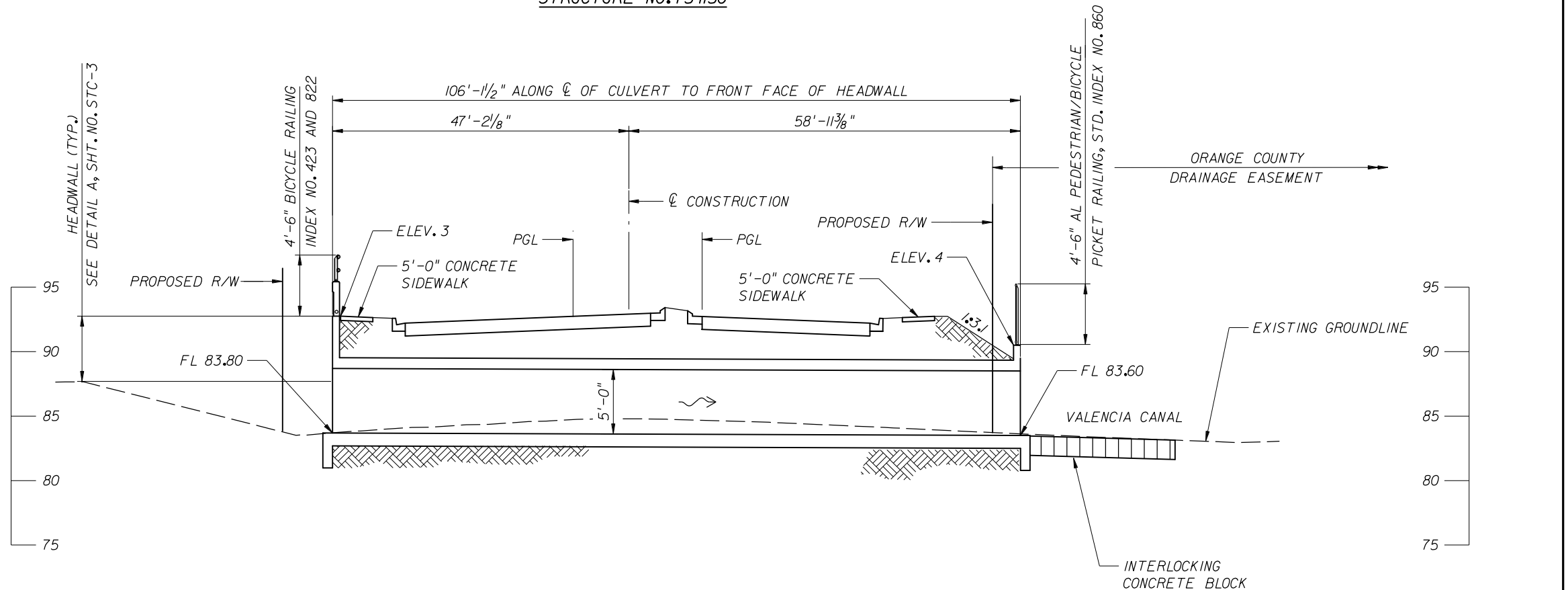
SHEET NO.
T-8



SECTION ALONG CENTERLINE OF 3-10'x 6' CONCRETE BOX CULVERT CD-2 AT STA. 34+72.80
STRUCTURE NO. 754150

ELEV. 1		
STATION	OFFSET	ELEV.
31+58.55	46.00'	93.055
32+83.20	46.56'	93.756
33+99.93	46.52'	94.465
34+63.00	46.00'	94.835

ELEV. 2		
STATION	OFFSET	ELEV.
34+75.00	46.00'	96.100
35+36.33	46.86'	96.487
36+13.31	46.82'	96.956
36+75.00	46.00'	97.250



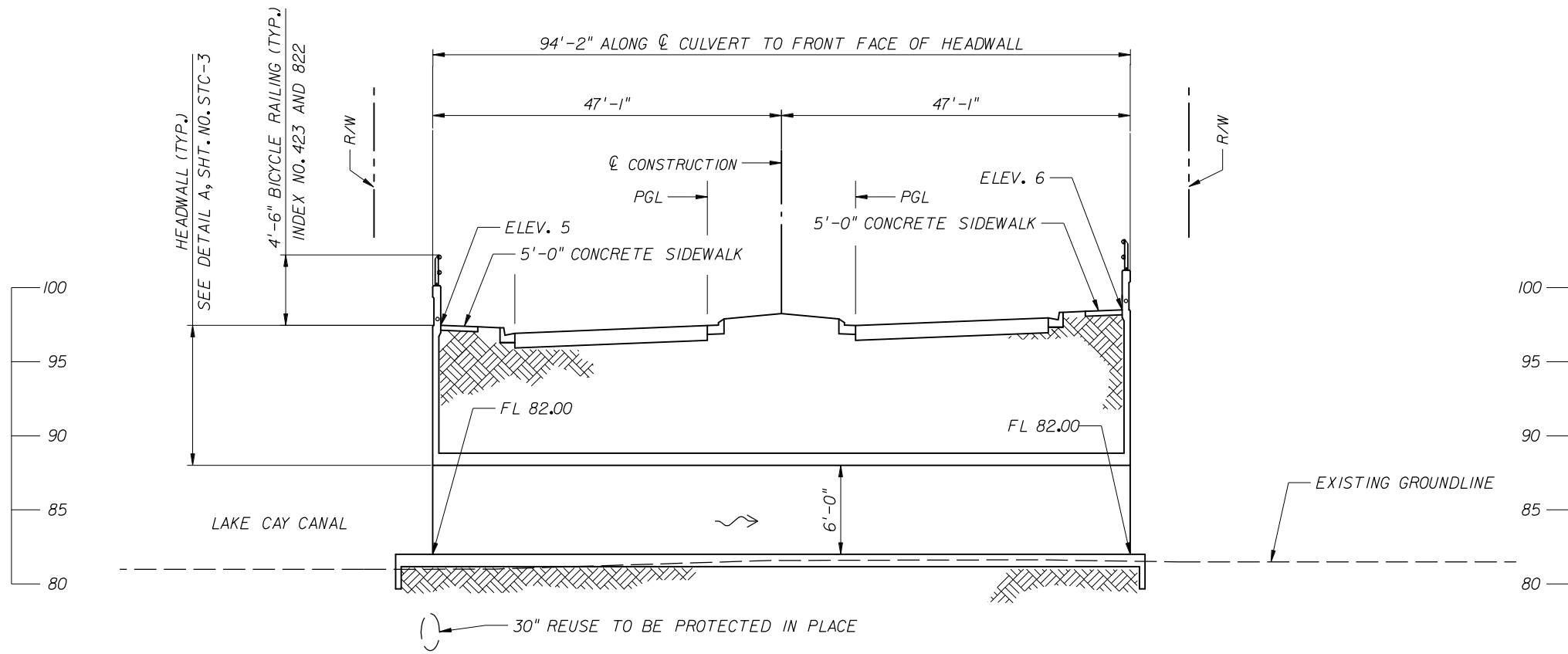
SECTION ALONG CENTERLINE OF 8'x 5' CONCRETE BOX CULVERT CD-1 AT STA. 20+17.85

ELEV. 3		
STATION	OFFSET	ELEV.
19+79.00	46.25'	92.973
20+10.93	46.00'	92.880
20+18.94	46.00'	92.850
20+57.00	46.25'	92.740

ELEV. 4		
STATION	OFFSET	ELEV.
20+04.00	58.00'	89.718
20+17.47	58.00'	89.678
20+25.48	58.00'	89.654
20+39.00	58.00'	89.613

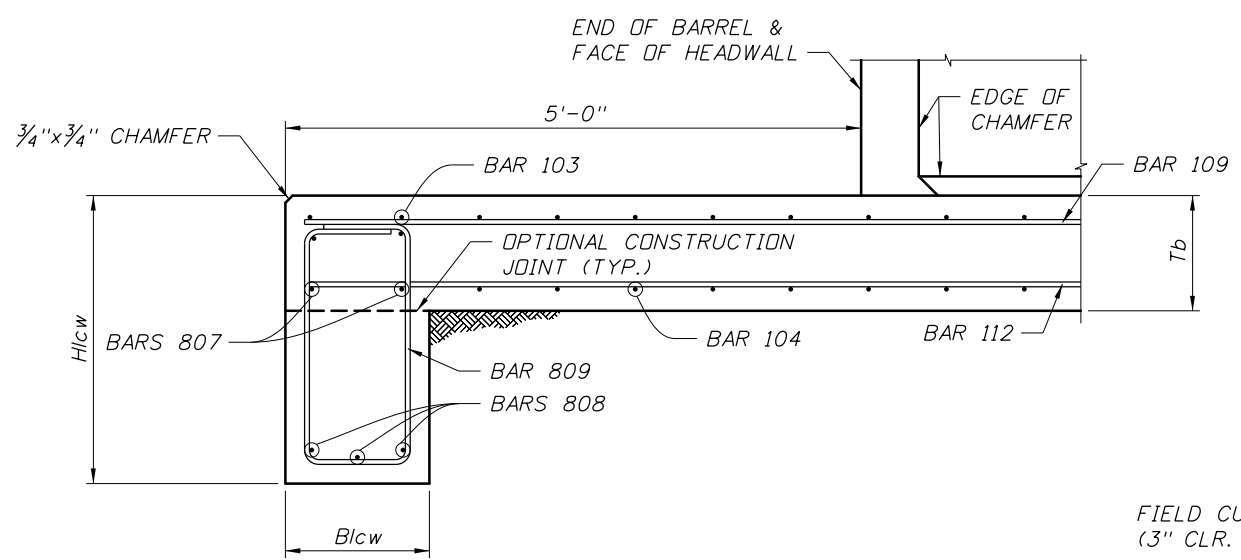
REVISIONS						NAMES		DATES		Engineer of Record:		CIP NO. 5089 IB/2A	ORANGE COUNTY GOVERNMENT FLORIDA	SECTIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	JF	11-08	11-08	Ram Kozhikote	P.E. No. 44022			NEWOVER CANAL AND VALENCIA CANAL CULVERTS	
						Checked by	KD	11-08					CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD		
						Designed by	JF	11-08					SHEET NO. STC-1		
						Checked by	KD	11-08							
						Approved by	Ram Kozhikote								

5/4/2016 11:42:11 AM
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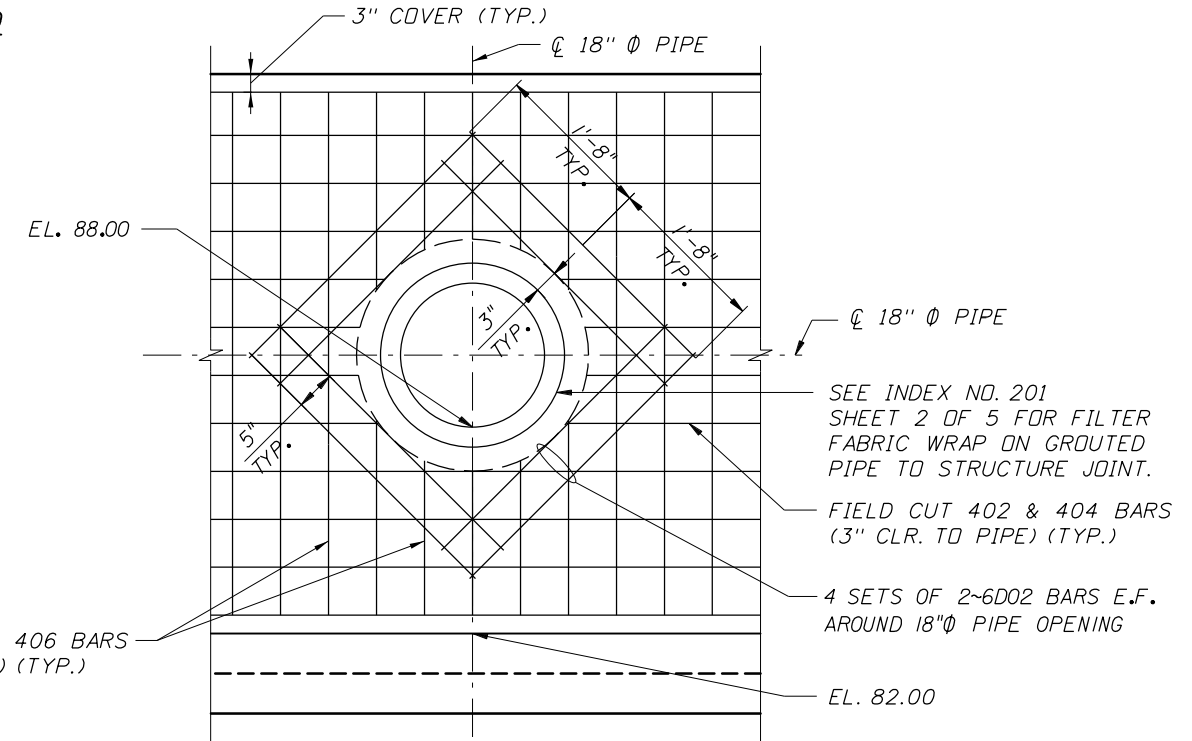


ELEV. 5		
STATION	OFFSET	ELEV.
41+95.00	46.00'	96.975
42+64.08	46.00'	97.395
42+85.92	46.00'	97.525
43+52.00	46.00'	97.915
ELEV. 6		
STATION	OFFSET	ELEV.
42+08.00	46.00'	98.095
42+64.59	46.00'	98.435
42+85.41	46.00'	98.565
43+42.00	46.00'	98.895

SECTION ALONG CENTERLINE OF 3-6'x 6' CONCRETE BOX CULVERT CD-3 AT STA. 42+75.00
STRUCTURE NO. 754151



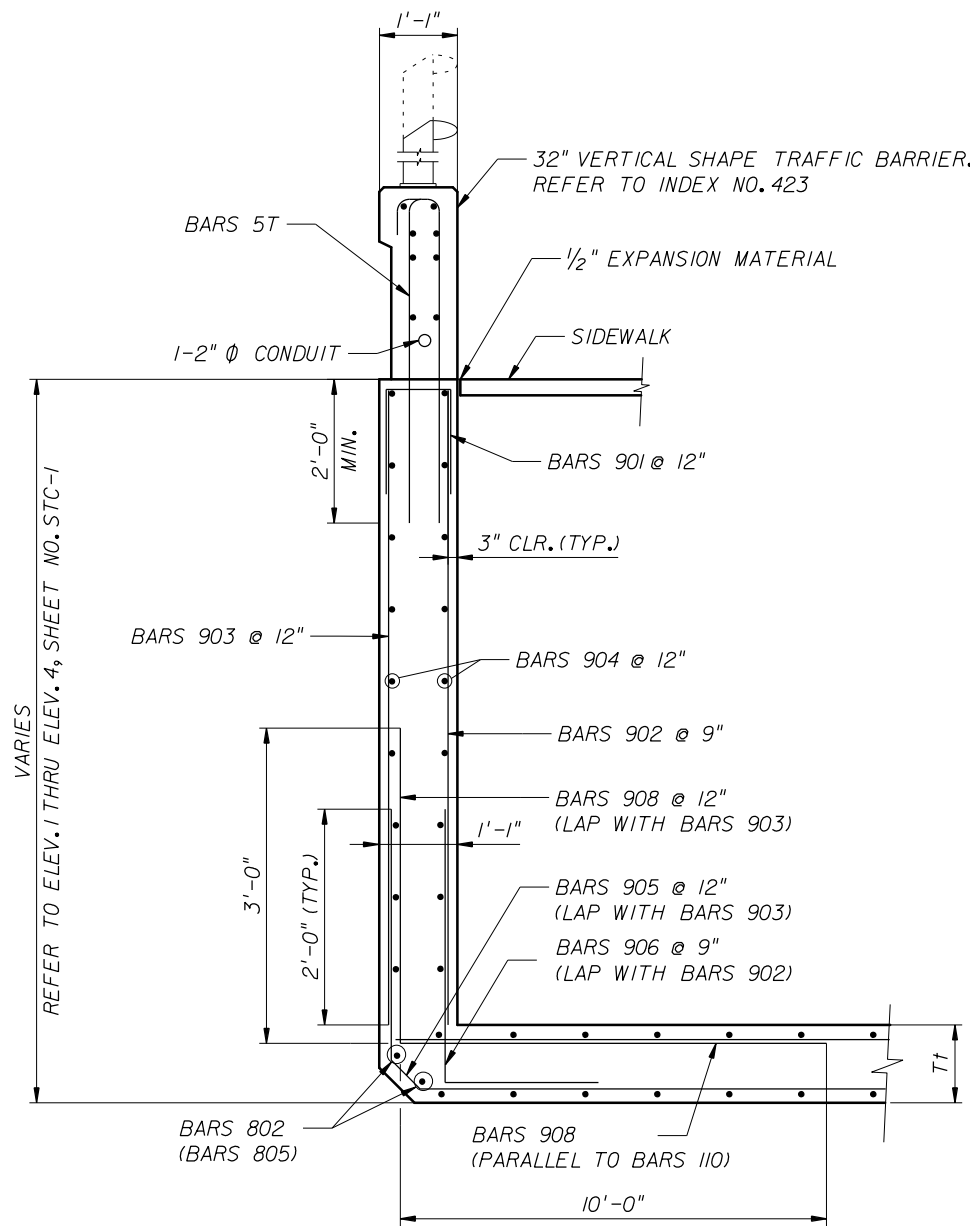
MODIFIED DETAIL "K"
LEFT CUTOFF WALL SECTION



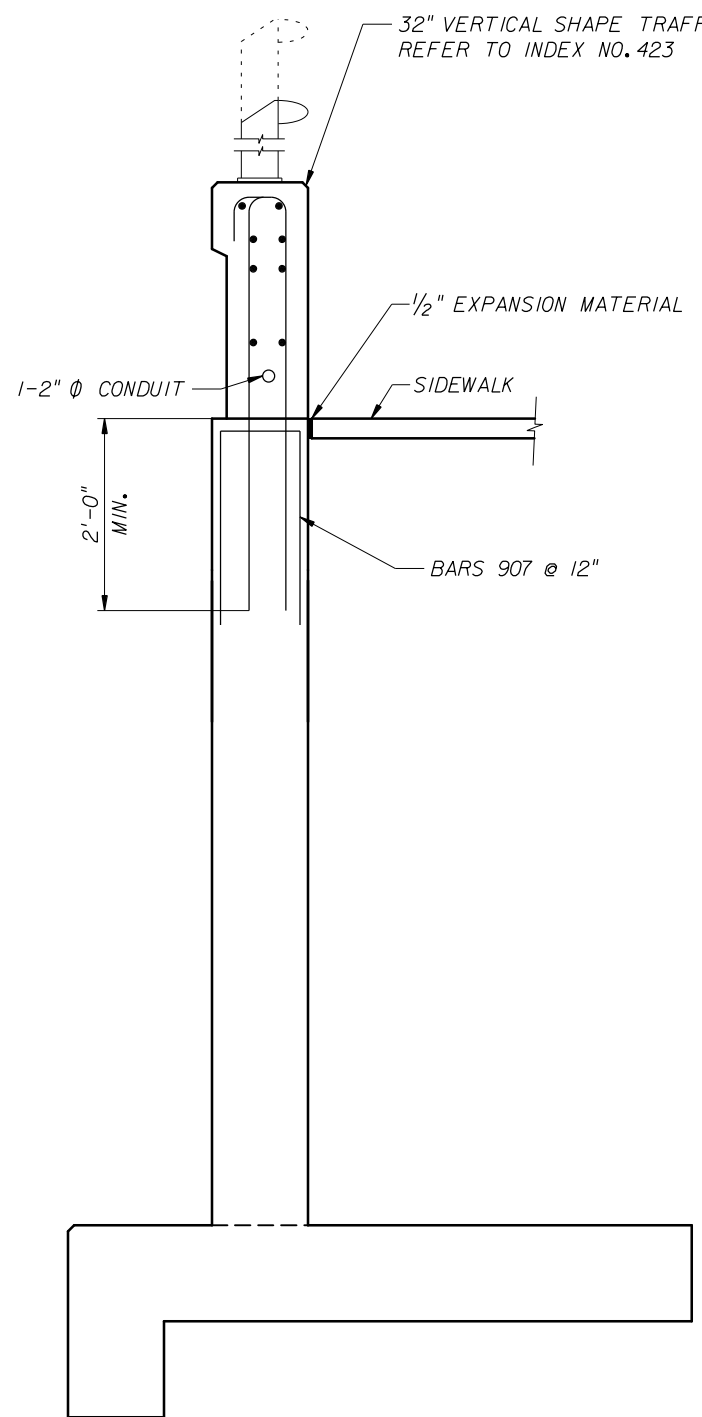
18" PIPE CONNECTION TO LAKE CAY BOX CULVERT
PARTIAL WING WALL ELEVATION

REVISIONS						DATE	BY	DESCRIPTION	NAMES	DATES	Engineer of Record: Ram Kozhikote P.E. No. 44022	CIP NO. 5089 IB/2A	ORANGE COUNTY GOVERNMENT FLORIDA	SECTIONS LAKE CAY CULVERT	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION									CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD	SHEET NO. STC-2
									Drawn by JF	09-10	ATKINS 482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.atkins.com				
								Checked by KD	09-10						
								Designed by KD	09-10						
								Checked by RK	09-10						
								Approved by Ram Kozhikote							

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DETAIL A - HEADWALL SECTION



SECTION OF TRAFFIC RAILING ON TOP OF WING WALL

BID ITEM NOTES:

1. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS.
2. PAYMENT FOR CAST-IN-PLACE CONCRETE BOX CULVERT CD-1 WILL BE MADE UNDER LUMP SUM PAY ITEM 400-1, CONSTRUCT BOX CULVERT CD-1. PRICE AND PAYMENT WILL BE FULL COMPENSATION FOR ALL WORK AND MATERIALS TO COMPLETE THE BOX CULVERT STRUCTURE INCLUDING BUT NOT LIMITED TO HEADWALLS, WINGWALLS, CONCRETE TRAFFIC RAILING, PEDESTRIAN/BICYCLE RAILING, ALUMINUM BULLET RAILING, DEWATERING, EXCAVATION, AND FILL AND RELATED WORK SPECIFICALLY REQUIRED FOR CULVERT CONSTRUCTION AND NOT COVERED UNDER SEPARATE ROADWAY BID ITEMS.
3. PAYMENT FOR CAST-IN-PLACE CONCRETE BOX CULVERT CD-2 WILL BE MADE UNDER LUMP SUM PAY ITEM 400-2, CONSTRUCT BOX CULVERT CD-2. PRICE AND PAYMENT WILL BE FULL COMPENSATION FOR ALL WORK AND MATERIALS TO COMPLETE THE BOX CULVERT STRUCTURE INCLUDING BUT NOT LIMITED TO HEADWALLS, WINGWALLS, CONCRETE TRAFFIC RAILING, ALUMINUM BULLET RAILING, DEWATERING, EXCAVATION, AND FILL AND RELATED WORK SPECIFICALLY REQUIRED FOR CULVERT CONSTRUCTION AND NOT COVERED UNDER SEPARATE ROADWAY BID ITEMS.
4. PAYMENT FOR CAST-IN-PLACE CONCRETE BOX CULVERT CD-3 WILL BE MADE UNDER LUMP SUM PAY ITEM 400-3, CONSTRUCT BOX CULVERT CD-3. PRICE AND PAYMENT WILL BE FULL COMPENSATION FOR ALL WORK AND MATERIALS TO COMPLETE THE BOX CULVERT STRUCTURE INCLUDING BUT NOT LIMITED TO CONCRETE, STEEL, HEADWALLS, WINGWALLS, CONCRETE TRAFFIC RAILING, ALUMINUM BULLET RAILING, DEWATERING, EXCAVATION, ALL FILL AND RELATED WORK SPECIFICALLY REQUIRED FOR CULVERT CONSTRUCTION AND NOT COVERED UNDER SEPARATE ROADWAY BID ITEMS.
5. LIGHT POLE NUMBERS 33 AND 43 AND LIGHTING CONDUCTORS WITHIN THE LIMITS OF BOX CULVERT WING WALLS, HEAD WALLS, OR BARRIER WALLS WILL BE FURNISHED AND INSTALLED BY O.U.C. (ORLANDO UTILITIES COMMISSION). LIGHT POLE ANCHOR BOLTS ARE TO BE FURNISHED BY O.U.C. AND INSTALLED BY THE CONTRACTOR IN CONCRETE PILASTER. THE CONTRACTOR SHALL COORDINATE THE ANCHOR BOLT ASSEMBLY AND SIZE/TYPE/LOCATION OF OTHER ACCESSORIES WITH O.U.C. AND LIGHT POLE MANUFACTURER/SPECIALITY ENGINEER'S SIGNED AND SEAL DRAWINGS FOR PROPER ACCOMMODATION OF LIGHTING SERVICE ON THIS PROJECT. THE COST OF ALL LABOR AND MATERIAL FOR THE CONSTRUCTION OF THE PILASTER, GROUT PADS, CONDUITS, PULL BOXES, MISCELLANEOUS HARDWARE REQUIRED FOR THE ACCOMMODATION OF CONDUITS AND INSTALLATION OF ANCHOR BOLT ASSEMBLY WITHIN THE LIMIT OF BOX CULVERT WING WALL AND HEAD WALL SHALL BE INCLUDED IN THE LUMP SUM BID ITEMS 400-1, 400-2 AND 400-3 RESPECTIVELY.

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REVISIONS						NAMES		DATES		Engineer of Record:		CIP NO. 5089 IB/2A		MISCELLANEOUS DETAILS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	Checked by	Designed by	Checked by	Approved by	ATKINS			482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.pbsj.com	NEWOVER CANAL, VALENCIA CANAL AND LAKE CAY CULVERTS
						AML	KD	JF	KD	Ram Kozhikote	License No. 24		CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD		
													SHEET NO.	STC-3	

BOX CULVERT DATA TABLES

BOX, HEADWALL AND CUTOFF WALL DATA TABLE (inches unless shown otherwise)

LOCATION	STRUCTURE NUMBER	BOX									HEADWALL AND CUTOFF WALL									
		Wc(ft)	Hc(ft)	Tt	Tw	Tb	Ti	#cells	Lc(ft)	Cover	Blhw	Hlhw	Brhw	Hrhw	Blcw	Hlcw	Brcw	Hrcw	SL(deg)	SR(deg)
42+75.00	CD-3	6	6	12	10	12	10	3	94.2	3	13	114	13	126	12	24	12	24	0	0

NOTES:

- ENVIRONMENTAL CLASS IS EXTREMELY AGGRESSIVE FOR THIS LOCATION.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- CONCRETE CLASS IV, MINIMUM 5500 PSI COMPRESSIVE STRENGTH AT 28-DAYS.
- DESIGN BASED ON GEOTECHNICAL REPORT BY SHENNA MCMASTER, P.E. OF NODARSE ASSOCIATES, INC.
- SOIL PROPERTIES USED IN DESIGN:
 BOX CULVERT AT LAKE CAY, STRUCTURE CD-3
 DENSITY OF SOIL: 120 PCF
 SOIL FRICTION ANGLE: 30 DEGREES
 MODULUS OF SUBGRADE REACTION: 216,000 LB/CF
 NOMINAL BEARING CAPACITY: 7,500 PSF
- SETTLEMENT CRITERIA FOR PRECAST BOX OPTION (INDEX NO. 291)
 LONG TERM DIFFERENTIAL SETTLEMENT: 1 IN
 EFFECTIVE LENGTH FOR SETTLEMENT: 94 FT
- WORK THIS DRAWING WITH DESIGN STANDARDS INDEX NO. 289 AND SHEET STC-3.
- DEWATERING DURING CONSTRUCTION SHALL BE ANTICIPATED TO ALLOW FOR PROPER PREPARATION AND COMPACTION OF THE FOUNDATION SOIL. THE BOX CULVERTS SHALL BE CONSTRUCTED IN THE DRY.

LEFT SIDE WINGWALLS DATA TABLE (inches unless shown otherwise)

STRUCTURE NUMBER	LEFT END WINGWALL									LEFT BEGIN ENDWALL								
	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
CD-3	60	15	84	18	91.3	0	15.9	15.5	64.5	60	15	84	18	91.3	0	15	15.4	67.5

RIGHT SIDE WINGWALLS DATA TABLE (inches unless shown otherwise)

STRUCTURE NUMBER	RIGHT END WINGWALL									RIGHT BEGIN ENDWALL								
	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
CD-3	24	15	84	18	88.9	0	16.9	16.6	57.9	24	15	84	18	88.9	0	16.1	16.4	57.9

ESTIMATED CONCRETE QUANTITIES (CY)

STRUCTURE NUMBER	BOX								LEFT END WINGWALL			LEFT BEGIN WINGWALL			RIGHT END WINGWALL			RIGHT BEGIN WINGWALL			Culvert Total
	Left Cutoff Wall	Right Cutoff Wall	Bottom Slab	Walls	Top Slab	Left Head Wall	Right Head Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	
CD-3	0.79	0.79	79.6	69.8	74.4	7.28	8.13	241.3	47.5	47	95.6	49.7	47.4	98.3	33	44.9	78.9	33	43.6	77.6	592

MAIN STEEL REINFORCEMENT SPACING (inches)

STRUCTURE NUMBER	BOX															HEADWALLS		CUTOFF WALLS	
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115, 116...	803	806	809	812
CD-3	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	12	15	15

WINGWALL STEEL REINFORCEMENT SPACING (inches)

STRUCTURE NUMBER	LEFT END WINGWALL							LEFT BEGIN WINGWALL							RIGHT END WINGWALL							RIGHT BEGIN WINGWALL						
	401 407(8)	402 (403)	404 (405)	406	409	410	411	501 507(8)	502 (503)	504 (505)	506	509	510	511	601 607(8)	602 (603)	604 (605)	606	609	610	611	701 707(8)	702 (703)	704 (705)	706	709	710	711
CD-3	7	12	12	12	9	12	12	7	12	12	12	9	12	12	7	12	12	12	9	12	12	7	12	12	12	9	12	12

WINGWALL NOTE: Bar designations in "()" are only required for variable height wingwalls.

REVISIONS						NAMES		DATES		Engineer of Record:		CIP NO. 5089 IB/2A		DATA TABLES LAKE CAY CANAL CULVERT															
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	JF	09-10	Checked by	KD	09-10			Designed by	KD	09-10	Checked by	RK	09-10	Approved by	Ram Kozhikote	License No. 24	482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.pbsj.com	CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD		SHEET NO. STC-5			

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MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø										
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION		MAIN BOX													NO. REQUIRED = 1									
5	101	9-2		158	1			9-2																
5	201	VARY		0	1			5-1 1/2																
		5-2		0	1			5-1 1/2																
5	301	VARY		0	1			5-1 1/2																
		5-2		0	1			5-1 1/2																
6	102	9-2		158	1			9-2																
6	202	VARY		0	1			5-1 1/2																
		5-2		0	1			5-1 1/2																
6	302	VARY		0	1			5-1 1/2																
		5-2		0	1			5-1 1/2																
6	103	9-2		162	1			9-2																
6	203	VARY		1	1			7-9 1/4																
		7-10		0	1			7-9 1/4																
6	303	VARY		1	1			7-9 1/4																
		7-10		0	1			7-9 1/4																
5	104	9-2		162	1			9-2																
5	204	VARY		1	1			7-9 1/4																
		7-10		0	1			7-9 1/4																
5	304	VARY		1	1			7-9 1/4																
		7-10		0	1			7-9 1/4																
5	105	7-4		318	10			2-10		4-6														
5	106	7-4		318	10			2-10		4-6														
4	108	6-2		142	1			6-2																
4	109	110-10		11	2			2-2		108-7 1/4														
4	110	107-10		11	2			2-2		105-7 1/4														
4	111	107-1		11	2			2-2		104-10 3/4														
4	112	110-10		11	2			2-2		108-7 1/4														
4	113	107-10		12	2			2-2		105-7 1/4														
4	114	107-10		12	2			2-2		105-7 1/4														
LOCATION		LEFT END WINGWALL													NO. REQUIRED = 1									
6	401	9-0		87	1			8-11 1/2																
4	402	36-0		9	1			36-0																
4	404	36-0		9	1			36-0																
4	406	9-0		36	1			8-11 1/2																
6	407	5-5		87	10			1-7		3-10														
5	409	6-7		72	1			6-7																
4	410	6-7		36	1			6-7																
4	411	36-0		14	1			36-0																
5	412	2-0		14	1			2-0																
4	907	4-4		38	11			0-4		2-0		2-0												
LOCATION		LEFT BEGIN WINGWALL													NO. REQUIRED = 1									
6	501	9-1		74	1			9-0 1/2																
4	502	30-8		10	1			30-7 1/4																
4	504	30-8		10	1			30-7 1/4																
4	506	9-1		31	1			9-0 1/2																
6	507	5-5		74	10			1-7		3-10														
5	509	6-7		62	1			6-7																
4	510	6-7		31	1			6-7																
4	511	30-8		14	1			30-7 1/4																
5	512	2-0		14	1			2-0																
4	907	4-4		32	11			0-4		2-0		2-0												
LOCATION		RIGHT END WINGWALL													NO. REQUIRED = 1									
6	601	6-1		30	1			6-0 1/2																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ATKINS License No. 24	Engineer of Record: Ram Kozhikote P.E. No. 44022 482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.apsj.com	CIP NO. 5089 IB/2A
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REINFORCING BAR LIST FOR BOX CULVERT CD-1 (1 OF 2)
 VALENCIA CANAL CULVERT
 CANADIAN COURT/JOHN YOUNG PARKWAY
 CONNECTOR ROAD

SHEET NO.
 STC-6

MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG		
4	602	12	3	7	1			12	2	1/2																						
4	604	12	3	7	1			12	2	1/2																						
4	606	6	1	13	1			6	0	1/2																						
6	607	5	5	30	10			1	7		3	10																				
5	609	6	7	25	1			6	7																							
4	610	6	7	13	1			6	7																							
4	611	12	3	14	1			12	2	1/2																						
5	612	2	0	9	1			2	0																							
4	907	4	4	14	11			0	4		2	0	2	0																		
LOCATION		RIGHT BEGIN WINGWALL										NO. REQUIRED = 1																				
6	701	5	11	30	1			5	10	1/4																						
4	702	12	3	6	1			12	2	1/2																						
4	704	12	3	6	1			12	2	1/2																						
4	706	5	11	13	1			5	10	1/4																						
6	707	5	5	30	10			1	7		3	10																				
5	709	6	7	25	1			6	7																							
4	710	6	7	13	1			6	7																							
4	711	12	3	14	1			12	2	1/2																						
5	712	2	0	9	1			2	0																							
4	907	4	4	14	11			0	4		2	0	2	0																		
LOCATION		LEFT HEADWALL										NO. REQUIRED = 1																				
6	802	9	3	2	1			9	2	1/4																						
5	901	4	7	10	11			0	7		2	0	2	0																		
5	902	3	2	14	1			3	2																							
5	903	3	2	11	1			3	2																							
5	904	9	3	12	1			9	3																							
5	905	5	1	11	22			0	4	1/4	2	5	0	4	1/4	2	2															
5	906	5	0	14	10			2	2		2	10																				
6	908	13	0	11	10			3	0		10	0																				
LOCATION		RIGHT HEADWALL										NO. REQUIRED = 1																				
6	804	9	3	2	1			9	2	1/4																						
6	805	9	3	2	1			9	2	1/4																						
3	806	3	11	10	27			1	3	1/4	0	7		0	3	1	0	1/4	0	6	0	6										
LOCATION		LEFT CUTOFF WALL										NO. REQUIRED = 1																				
4	807	9	3	2	1			9	2	1/4																						
4	808	9	3	2	1			9	2	1/4																						
4	809	4	2	10	7			1	5	1/4	0	6	0	4	1/2	0	4	1/2														
LOCATION		RIGHT CUTOFF WALL										NO. REQUIRED = 1																				
4	810	9	3	2	1			9	2	1/4																						
4	811	9	3	2	1			9	2	1/4																						
4	812	4	2	10	7			1	5	1/4	0	6	0	4	1/2	0	4	1/2														
END OF LIST																																

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REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				Drawn by JF 11-08 Checked by KD 11-08 Designed by JF 11-08 Checked by KD 11-08 Approved by Ram Kozhikote		Engineer of Record: Ram Kozhikote P.E. No. 44022 ATKINS 482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.atkins.com License No. 24		CIP NO. 5089 IB/2A				REINFORCING BAR LIST FOR BOX CULVERT CD-1(2 OF 2) VALENCIA CANAL CULVERT CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD				SHEET NO. STC-7	
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MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø										
SIZE	DES	FT	IN	BAR	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION MAIN BOX															NO. REQUIRED = 1									
6	101	33- 6		334	1			33- 6																
6	201	VARY		213	1			33- 5 3/4																
		16-10		0	1			0- 2 1/4																
6	301	VARY		140	1			33- 5 1/2																
		16-10		0	1			0- 2 1/2																
6	102	33- 6		334	1			33- 6																
6	202	VARY		213	1			33- 5 3/4																
		16-10		0	1			0- 2 1/4																
6	302	VARY		140	1			33- 5 1/2																
		16-10		0	1			0- 2 1/2																
6	103	33- 6		340	1			33- 6																
6	203	VARY		213	1			33- 5 3/4																
		16-10		0	1			0- 2 1/4																
6	303	VARY		140	1			33- 5 1/2																
		16-10		0	1			0- 2 1/2																
6	104	33- 6		340	1			33- 6																
6	204	VARY		213	1			33- 5 3/4																
		16-10		0	1			0- 2 1/4																
6	304	VARY		140	1			33- 5 1/2																
		16-10		0	1			0- 2 1/2																
5	105	8- 0		1024	10			2-10		5- 2														
5	106	8- 0		1024	10			2-10		5- 2														
5	107	8- 0		2736	10			2-10		5- 2														
5	108	7- 6		512	1			7- 6																
4	109	VARY		35	2			2- 2		274-10 3/4														4
		265- 6		0	2			2- 2		238- 8 1/2														4
4	110	VARY		35	2			2- 2		273-10 3/4														4
		264- 6		0	2			2- 2		237- 8 1/2														4
4	111	VARY		35	2			2- 2		273- 2 1/2														4
		263-10		0	2			2- 2		237- 1 1/4														4
4	112	VARY		35	2			2- 2		274-10 3/4														4
		265- 6		0	2			2- 2		238- 8 1/2														4
4	113	282- 7		14	2			2- 2		273-10 3/4														4
4	114	246- 5		14	2			2- 2		237- 8 1/2														4
4	115	270- 6		14	2			2- 2		261- 9 1/2														4
4	116	258- 6		14	2			2- 2		249- 9 1/2														4
LOCATION LEFT END WINGWALL															NO. REQUIRED = 1									
8	401	13- 0		122	1			12-11 3/4																
4	402	62- 3		13	2			60-11		1- 4														1
5	404	62- 7		13	2			60-11		1- 8														1
5	406	13- 0		61	1			12-11 3/4																
8	407	9- 0		122	10			3- 3		5- 9														
7	409	11- 3		82	1			11- 3																
6	410	11- 3		82	1			11- 3																
4	411	62- 3		24	2			60-11		1- 4														1
5	412	2- 0		20	1			2- 0																
5	907	4-9		63	11			0-9		2- 0		2- 0												
LOCATION LEFT BEGIN WINGWALL															NO. REQUIRED = 1									
8	501	VARY		235	1			12-10 1/4																
		12- 6		0	1			12- 1 3/4																
4	502	118-10		12	2			117- 6		1- 4														1
4	503	VARY		1	1			3- 1 1/2																
		3- 2		0	1			3- 1 1/2																
5	504	119- 2		12	2			117- 6		1- 8														1
5	505	VARY		1	1			3- 1 1/2																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Engineer of Record: **Ram Kozhikote**
 P.E. No. 44022
ATKINS
 482 South Keller Road
 Orlando, FL 32810
 (407) 647-7275
 www.pbsj.com
 License No. 24



REINFORCING BAR LIST FOR BOX CULVERT CD-2 (1 OF 3)
NEWOVER CANAL CULVERT
 CANADIAN COURT/JOHN YOUNG PARKWAY
 CONNECTOR ROAD

SHEET NO.
STC-8

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MARK	LENGTH	NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø					
					SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT			IN	FR	FT	IN	FR
		3- 2	0	1				3- 1 1/2																											
5	506	VARY	118	1				12-10 1/4																											
		12- 6	0	1				12- 1 3/4																											
8	507	9- 0	235	10				3- 3						5- 9																					
8	508	VARY	0	10				15- 0 1/4																											
		14- 3	0	10				13- 5 3/4																											
7	509	11- 9	157	1				11- 8 1/4																											
6	510	16- 1	157	1				16- 0 1/2																											
4	511	14-11	24	1				14-10 3/4																											
5	512	2- 0	19	1				2- 0																											
5	907	4- 9	119	11				0- 9						2- 0																					
		LOCATION										RIGHT END WINGWALL										NO. REQUIRED = 1													
9	601	15- 8	124	1				15- 7 1/2																											
4	602	63- 3	16	2				61-11						1- 4																					
5	604	63- 7	16	2				61-11						1- 8																					
5	606	15- 8	62	1				15- 7 1/2																											
9	607	10- 5	124	10				3- 3						7- 2																					
7	609	11- 3	124	1				11- 3																											
6	610	11- 3	83	1				11- 3																											
4	611	63- 3	24	2				61-11						1- 4																					
5	612	2- 0	24	1				2- 0																											
5	907	4- 9	64	11				0- 9						2- 0																					
		LOCATION										RIGHT BEGIN WINGWALL										NO. REQUIRED = 1													
9	701	15- 2	126	1				15- 2																											
4	702	64- 1	16	2				62- 9						1- 4																					
5	704	64- 5	16	2				62- 9						1- 8																					
5	706	15- 2	63	1				15- 2																											
9	707	10- 5	126	10				3- 3						7- 2																					
7	709	11- 3	126	1				11- 3																											
6	710	11- 3	84	1				11- 3																											
4	711	64- 1	24	2				62- 9						1- 4																					
5	712	2- 0	23	1				2- 0																											
5	907	4- 9	63	11				0- 9						2- 0																					
		LOCATION										LEFT HEADWALL										NO. REQUIRED = 1													
6	802	114- 6	3	2				112- 3 1/2						2- 2																					
5	901	4- 7	116	11				0- 7						2- 0																					
5	902	VARY	154	1				6- 4																											
		6- 9	0	1				7- 1																											
5	903	VARY	116	1				6- 4																											
		6- 9	0	1				7- 1																											
5	904	114- 6	14	2				112- 4						2- 2																					
5	905	5- 1	116	22				0- 4 1/4						2- 5																					
5	906	5- 0	154	10				2- 2						2-10																					
6	908	13- 0	116	10				3- 0						10- 0																					
		LOCATION										RIGHT HEADWALL										NO. REQUIRED = 1													
6	805	79- 10	3	2				77- 7 1/2						2- 2																					
5	901	4- 7	80	11				0- 7						2- 0																					
5	902	VARY	106	1				9- 2 1/2																											
		9- 6	0	1				9- 8 1/2																											
5	903	VARY	80	1				9- 2 1/2																											
		9- 6	0	1				9- 8 1/2																											
5	904	79-10	22	2				77- 7 1/2						2- 2																					
5	905	5- 1	80	22				0- 4 1/4						2- 5																					
5	906	5- 0	106	10				2- 2						2-10																					
6	908	13- 0	80	10				3- 0						10- 0																					

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				NAMES DATES Drawn by AML 11-08 Checked by KD 11-08 Designed by JF 11-08 Checked by KD 11-08 Approved by Ram Kozhikote		Engineer of Record: Ram Kozhikote P.E. No. 44022 ATKINS License No. 24 482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.atkins.com		CIP NO. 5089 IB/2A				REINFORCING BAR LIST FOR BOX CULVERT CD-2 (2 OF 3) NEWOVER CANAL CULVERT CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD		SHEET NO. STC-9	
---	--	--	--	--	--	--	--	-----------------------	--	--	--	--	--	--------------------	--

5/4/2016 11:42:13 AM T:\Cadd\JPC\connectorRd\Section1B\struct\ST_REBAR_CULVERT_CD2.dgn

MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø										
SIZE	DES	FT	IN	BAR	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION					MAIN BOX					NO. REQUIRED = 1														
5	101	20-10	142	1				20-10																
5	102	20-10	142	1				20-10																
5	103	20-10	151	1				20-10																
5	104	20-10	151	1				20-10																
5	105	8- 0	282	10				2-10	5- 2															
5	106	8- 0	282	10				2-10	5- 2															
4	107	10- 6	752	10				5- 4	5- 2															
4	108	7- 6	188	1				7- 6																
4	109	102- 4	22	2				2- 2	100- 2															1
4	110	95-10	22	2				2- 2	93- 8															1
4	111	95- 3	22	2				2- 2	93- 0 1/4															1
4	112	102- 4	22	2				2- 2	100- 2															1
4	113	95-10	14	2				2- 2	93- 8															1
4	114	95-10	14	2				2- 2	93- 8															1
4	115	95- 3	28	2				2- 2	93- 0 1/4															1
LOCATION					LEFT END WINGWALL					NO. REQUIRED = 1														
8	401	15- 4	28	1				15- 3 1/4																
4	402	64- 4	17	1				64- 4																
5	404	64- 1	17	1				64- 0 1/4																
5	406	15- 4	66	1				15- 3 1/4																
8	407	11- 3	111	10				5- 9	5- 6															
7	409	12- 9	87	1				12- 9																
5	410	12- 9	66	1				12- 9																
4	411	64- 1	28	1				64- 0 1/4																
5	412	2- 0	25	1				2- 0																
4	907	4- 9	66	11				0- 9	2- 0	2- 0														
LOCATION					LEFT BEGIN WINGWALL					NO. REQUIRED = 1														
8	501	14- 9	28	1				14- 8 3/4																
4	502	67- 4	16	1				67- 3 1/2																
5	504	67- 0	16	1				66-11 1/2																
5	506	14- 9	68	1				14- 8 3/4																
8	507	11- 3	116	10				5- 9	5- 6															
7	509	12- 9	91	1				12- 9																
5	510	12- 9	68	1				12- 9																
4	511	67- 0	28	1				66-11 1/2																
5	512	2- 0	24	1				2- 0																
4	907	4- 9	68	11				0- 9	2- 0	2- 0														
LOCATION					RIGHT END WINGWALL					NO. REQUIRED = 1														
8	601	16- 4	22	1				16- 3 3/4																
4	602	57- 9	18	1				57- 8 1/4																
5	604	57- 5	18	1				57- 5																
5	606	16- 4	59	1				16- 3 3/4																
8	607	8- 3	100	10				2- 9	5- 6															
7	609	9- 9	78	1				9- 9																
5	610	9- 9	59	1				9- 9																
4	611	57- 5	22	1				57- 5																
5	612	2- 0	27	1				2- 0																
4	907	4- 9	59	11				0- 9	2- 0	2- 0														
LOCATION					RIGHT BEGIN WINGWALL					NO. REQUIRED = 1														
8	701	15-10	22	1				15-10																
4	702	57- 9	17	1				57- 8 1/4																

REVISIONS						NAMES		DATES	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	JF	09-10	09-10
						Checked by	KD	09-10	09-10
						Designed by	KD	09-10	09-10
						Checked by	RK	09-10	09-10
						Approved by	Ram Kozhikote		

Engineer of Record: **Ram Kozhikote**
P.E. No. 44022
ATKINS
482 South Keller Road
Orlando, FL 32810
(407) 647-7275
www.atkins.com
License No. 24

CIP NO. 5089
IB/2A



REINFORCING BAR LIST FOR BOX CULVERT CD-3 (1 OF 2)
LAKE CAY CULVERT

CANADIAN COURT/JOHN YOUNG PARKWAY
CONNECTOR ROAD

SHEET NO.
STC-II

5/4/2016 11:42:14 AM T:\cadd\jfp\connector\rd\Section1B\struct\ST_REBAR_CULVERT_CD3.dgn

Load Rating Summary Details for Reinforced Concrete Bridges

Table Date 01-01-07

Table 1 - LRFR using Appendix D.6 (LFD or ASD)³

Level	Vehicle	Weight (tons)	Load Factors		Moment (Strength)					Shear (Strength)					Comments:		
			LL	DL	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension			
Inventory	HS-20	36.0	2.17	1.30													
Operating	HS-20	36.0	1.30	1.30													
	SU4	35.0	1.30	1.30													
	C5	40.0	1.30	1.30													
	ST5	40.0	1.30	1.30													

General Notes:
 1. This table is based on the requirements established in the January 2008 "Structures Manual".

Table 2 Notes:
 1. Permit capacity is determined by using the permit vehicle in all lanes.
 2. If the Design Operating Load Rating is greater than 1, Load Rating using Legal Vehicles SU4, C5, and ST5 is not required.
 3. Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? Yes No

Load Rating Summary Details for Reinforced Concrete Bridges

Table Date 01-01-07

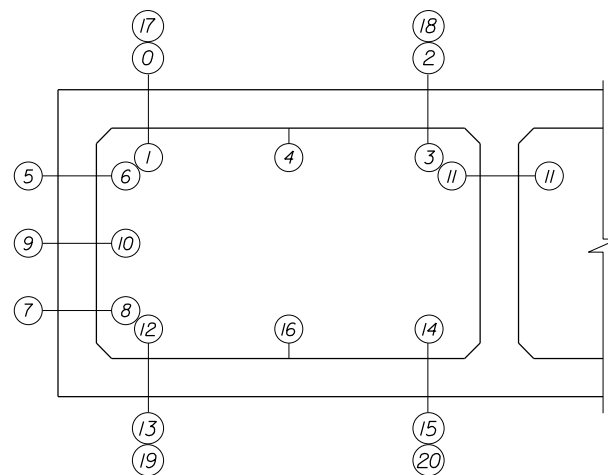
Table 2 - LRFR w/o Appendix D.6 (LFD)³

Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength)					Shear (Strength)					Comments:	
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension		
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	N/A	3.0	N/A	2	N/A	N/A	N/A	2.67	N/A	18	N/A	
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	N/A	3.89	N/A	2	N/A	N/A	N/A	3.46	N/A	18	N/A	
Legal Load Rating	Strength I	SU4	35.0	1.35	1.25	1.50												
	Strength I	C5	40.0	1.35	1.25	1.50												
	Strength I	ST5	40.0	1.35	1.25	1.50												
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	N/A	2.83	169.8	2	N/A	N/A	N/A	2.81	168.6	18	N/A	

Abbreviations:

Inv - Inventory

Op - Operating



RATING LOCATIONS

Controlling Load Rating			
Limit State	Vehicle	Weight (Tons)	Rating Factor
Strength I	HL-93	N/A	2.67

BRIDGE NO. 754150

REVISIONS						NAMES		DATES		Engineer of Record:		CIP NO. 5089 IB/2A	ORANGE COUNTY GOVERNMENT FLORIDA	LOAD RATING CHARTS CONCRETE BOX CULVERT AT NEWOVER CANAL		SHEET NO. STC-13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	Checked by	Designed by	Checked by	Approved by	ATKINS			482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.atkins.com	CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD	
						JF	KD	KD	SS	Ram Kozhikote						

Load Rating Summary Details for Reinforced Concrete Bridges

Table Date 01-01-07

Table 1 - LRFR using Appendix D.6 (LFD or ASD)³

Level	Vehicle	Weight (tons)	Load Factors		Moment (Strength)					Shear (Strength)					Comments:		
			LL	DL	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension			
Inventory	HS-20	36.0	2.17	1.30													
Operating	HS-20	36.0	1.30	1.30													
	SU4	35.0	1.30	1.30													
	C5	40.0	1.30	1.30													
	ST5	40.0	1.30	1.30													

General Notes:
 1. This table is based on the requirements established in the January 2008 "Structures Manual".

Table 2 Notes:
 1. Permit capacity is determined by using the permit vehicle in all lanes.
 2. If the Design Operating Load Rating is greater than 1, Load Rating using Legal Vehicles SU4, C5, and ST5 is not required.
 3. Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? Yes No

Load Rating Summary Details for Reinforced Concrete Bridges

Table Date 01-01-07

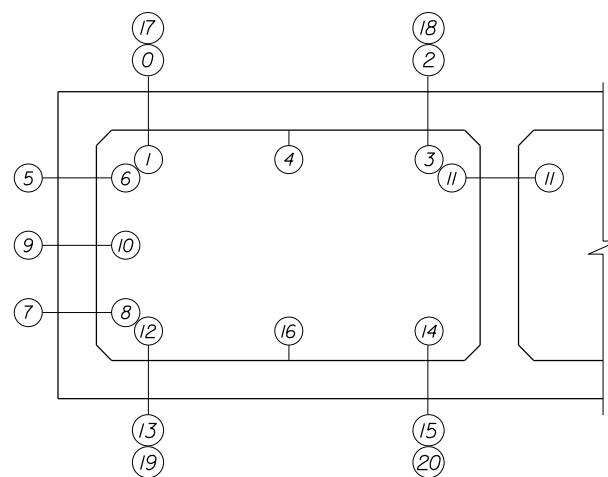
Table 2 - LRFR w/o Appendix D.6 (LFD)³

Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength)					Shear (Strength)					Comments:
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	N/A	5.19	N/A	15	N/A	N/A	6.93	N/A	20	N/A	
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	N/A	6.73	N/A	15	N/A	N/A	8.98	N/A	20	N/A	
Legal Load Rating	Strength I	SU4	35.0	1.35	1.25	1.50											
	Strength I	C5	40.0	1.35	1.25	1.50											
	Strength I	ST5	40.0	1.35	1.25	1.50											
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	N/A	5.05	303.2	15	N/A	N/A	7.55	168.6	20	N/A	

Abbreviations:

Inv - Inventory

Op - Operating



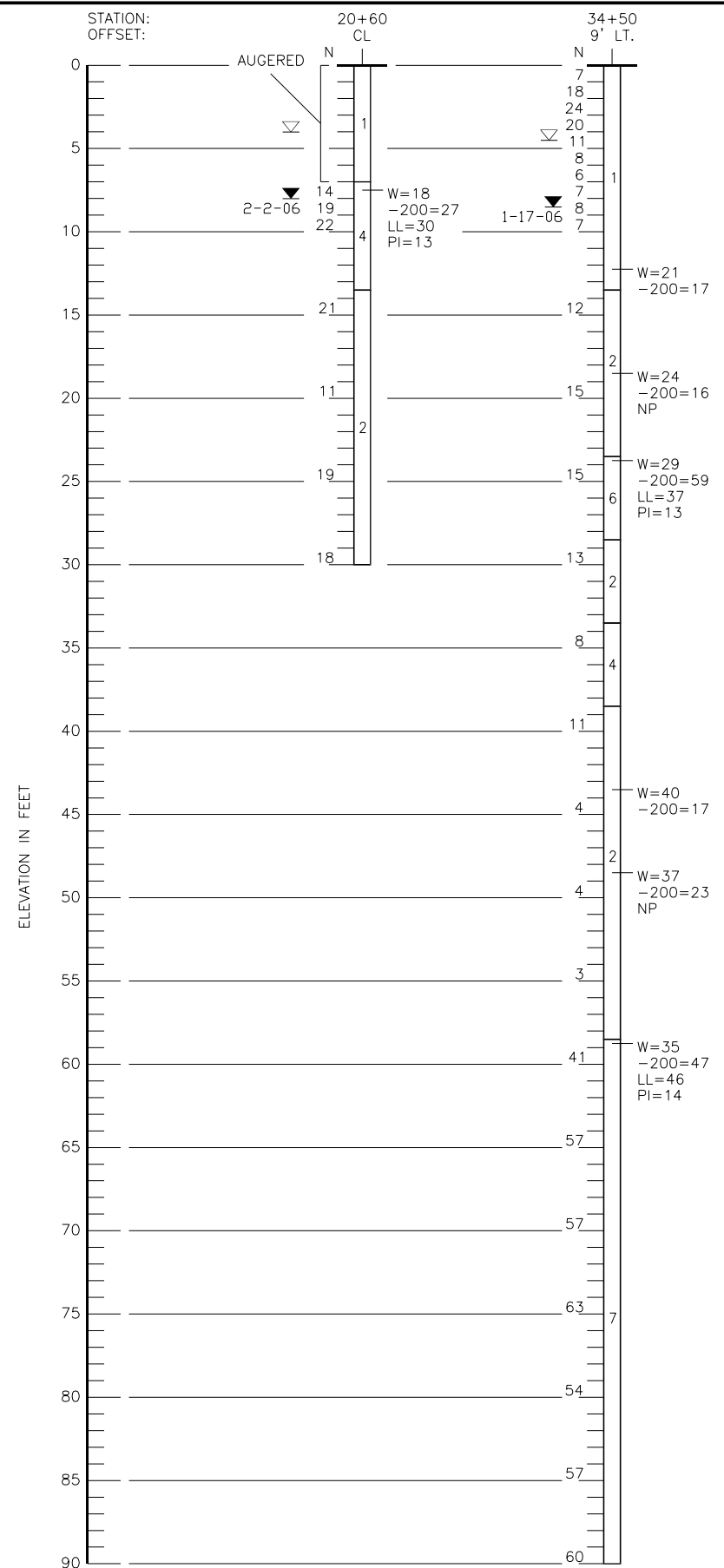
RATING LOCATIONS

Controlling Load Rating

Limit State	Vehicle	Weight (Tons)	Rating Factor
Strength II	FL120	303.23	5.05

BRIDGE NO. 754151

REVISIONS						NAMES		DATES		Engineer of Record:		CIP NO. 5089 IB/2A	ORANGE COUNTY GOVERNMENT FLORIDA	LOAD RATING CHARTS CONCRETE BOX CULVERT AT LAKE CAY		SHEET NO. STC-14
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	Checked by	Designed by	Checked by	Approved by	Ram Kozhikote			482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.pbsj.com	CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD	
						JF	KD	KD	RK	Ram Kozhikote						



- LEGEND**
- 1 LIGHT GRAYISH-BROWN TO DARK BROWN FINE SAND AND SLIGHTLY SILTY FINE SAND WITH OCCASIONAL ROCKS (TOP 1 TO 2 FEET) (A-3)
 - 2 LIGHT GRAYISH-BROWN, DARK BROWN AND REDDISH-BROWN SILTY FINE SAND (A-2-4)
 - 4 GRAYISH-BROWN AND GRAYISH-GREEN CLAYEY FINE SAND AND SILTY CLAYEY SAND (A-2-6)
 - 6 GREENISH-GRAY CLAY AND SANDY CLAY (A-6)
 - 7 GRAYISH-BROWN AND GRAYISH-GREEN CLAYEY SAND TO SANDY CLAY (A-7-5)
 - (A-3) A.A.S.H.T.O. SOIL CLASSIFICATION GROUP SYMBOL AS DETERMINED BY VISUAL EXAMINATION
 - ▼ ENCOUNTERED GROUNDWATER LEVEL WITH DATE OF READING
 - 1-20-06
 - ▽ ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL
 - N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED
 - W NATURAL MOISTURE CONTENT (%)
 - 200 FINES PASSING No. 200 SIEVE (%)
 - LL LIQUID LIMIT (%)
 - PI PLASTICITY INDEX
 - NP NON-PLASTIC

VALENCIA CANAL AND NEWOVER CANAL CULVERTS

REVISIONS					Names		Dates		 1675 LEE ROAD WINTER PARK, FLORIDA 32789 (407) 740-6110 CERTIFICATE OF AUTHORIZATION No. 6174 SHENNA McMASTER, P.E. No. 57537			ROAD NO.		COUNTY		FINANCIAL PROJECT ID.		SHEET TITLE:		SHEET No.
Date	By	Description	Date	By	Description	Drawn by	Checked by	Designed by				Checked by	Approved by	ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	REPORT OF BORINGS FOR STRUCTURES		STC-15	
						MG	SM				-	ORANGE	-	CANADIAN COURT EXTENSION SECTION 1B/2A ORANGE COUNTY, FLORIDA						

LEGEND

	SAND		CLAY
	SILTY SAND		SILT
	SANDY SILT		CLAYEY SAND

(SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
 6-18-05 GROUNDWATER LEVEL IN FEET WITH DATE OF READING
 ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

W=0 NATURAL MOISTURE CONTENT (%)
 -200=0 FINES PASSING No. 200 SIEVE (%)
 LL=0 LIQUID LIMIT (%)
 PI=0 PLASTICITY INDEX

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT UNLESS OTHERWISE NOTED
 WH SAMPLING SPOON FELL UNDER WEIGHT OF ROD AND HAMMER

STANDARD PENETRATION TEST DATA
 SPOON INSIDE DIA. 1 3/8 IN.
 SPOON OUTSIDE DIA. 2 IN.
 ASTM STANDARD DROP SAFETY HAMMER (ROPE-CATHEAD)
 AVG. HAMMER DROP 30 IN.
 HAMMER WEIGHT 140 LBS.

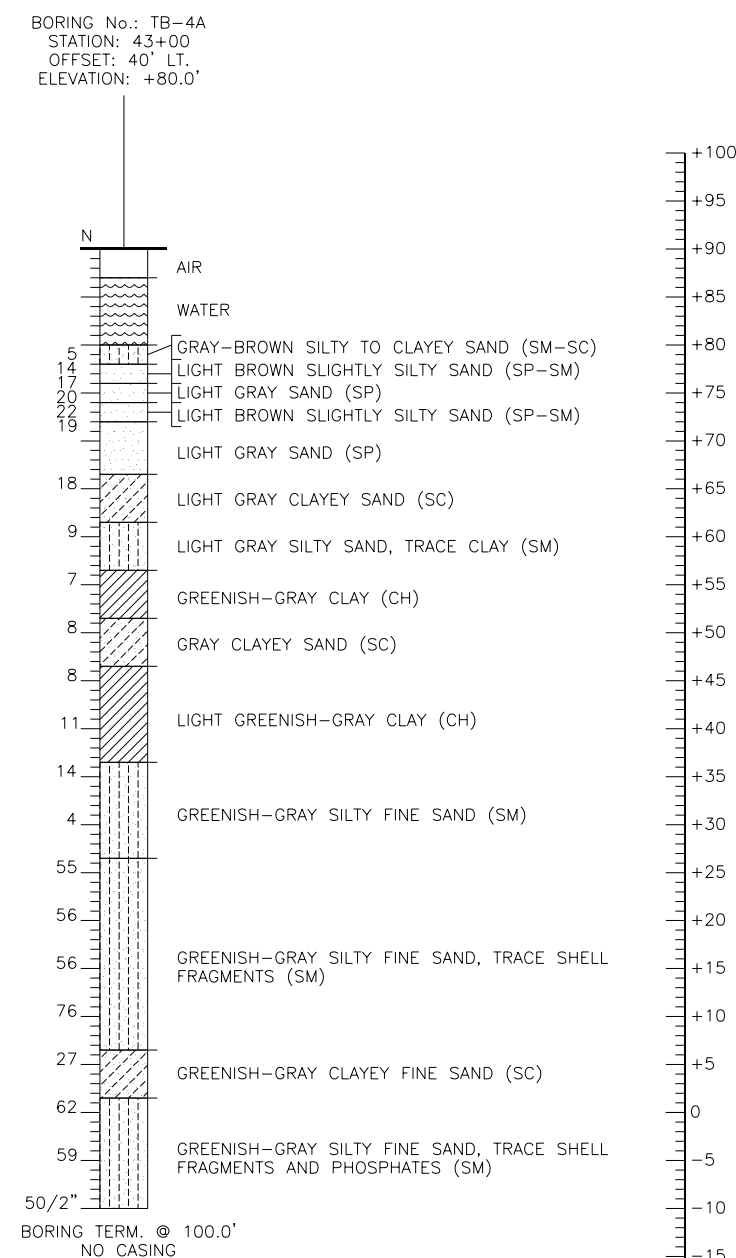
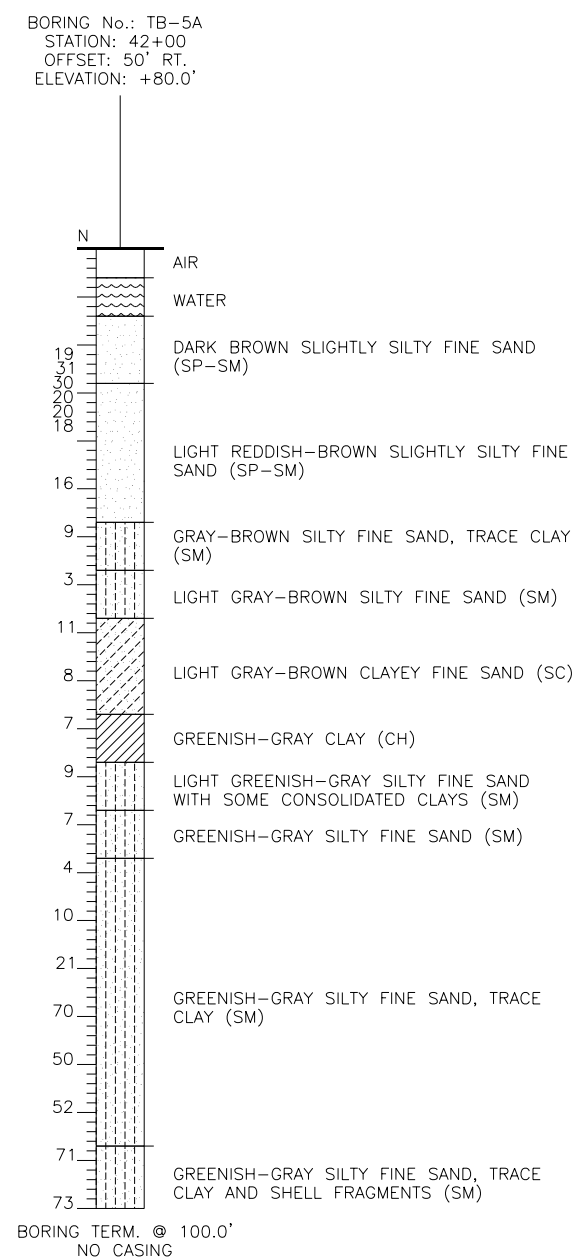
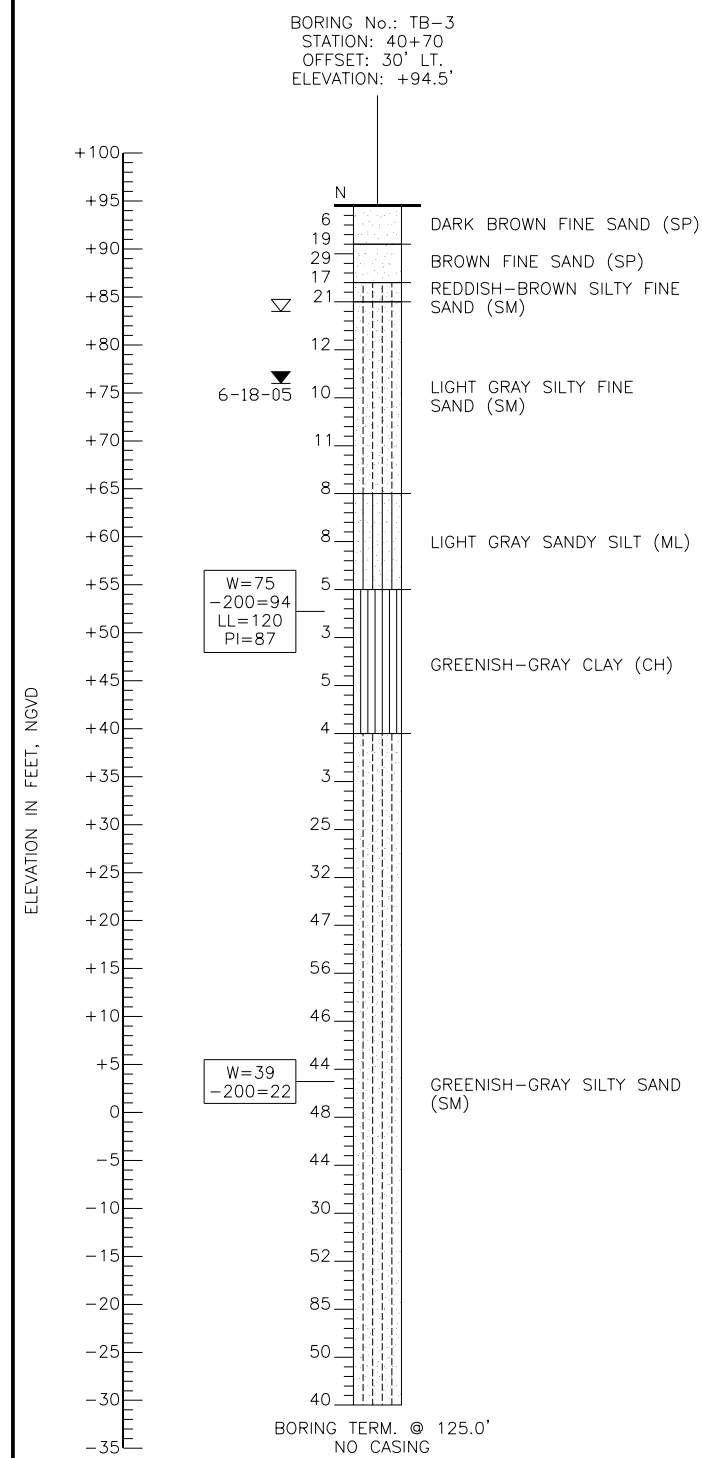
GRANULAR MATERIALS	
RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	GREATER THAN 30

ENVIRONMENTAL CLASSIFICATION:
 BASED ON FDOT CORROSION MAPS
 SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE
 SUBSTRUCTURE: CONCRETE: MODERATELY AGGRESSIVE
 STEEL: EXTREMELY AGGRESSIVE (pH=5.6)

- NOTES:
- LAYER BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL LAYERS AT EACH TEST HOLE LOCATION ONLY. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.
 - BASED ON A REVIEW OF THE SEPTEMBER 1996 ST. JOHNS RIVER WATER MANAGEMENT DISTRICT POTENTIOMETRIC MAP OF THE UPPER FLORIDAN AQUIFER FOR THIS PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE +50 TO +60 FEET NGVD.
 - STATION, OFFSETS AND ELEVATIONS ARE APPROXIMATE AND HAVE BEEN DETERMINED BY SCALING FROM SITE PLANS.

CULVERT AT LAKE CAY



REVISIONS					
Date	By	Description	Date	By	Description

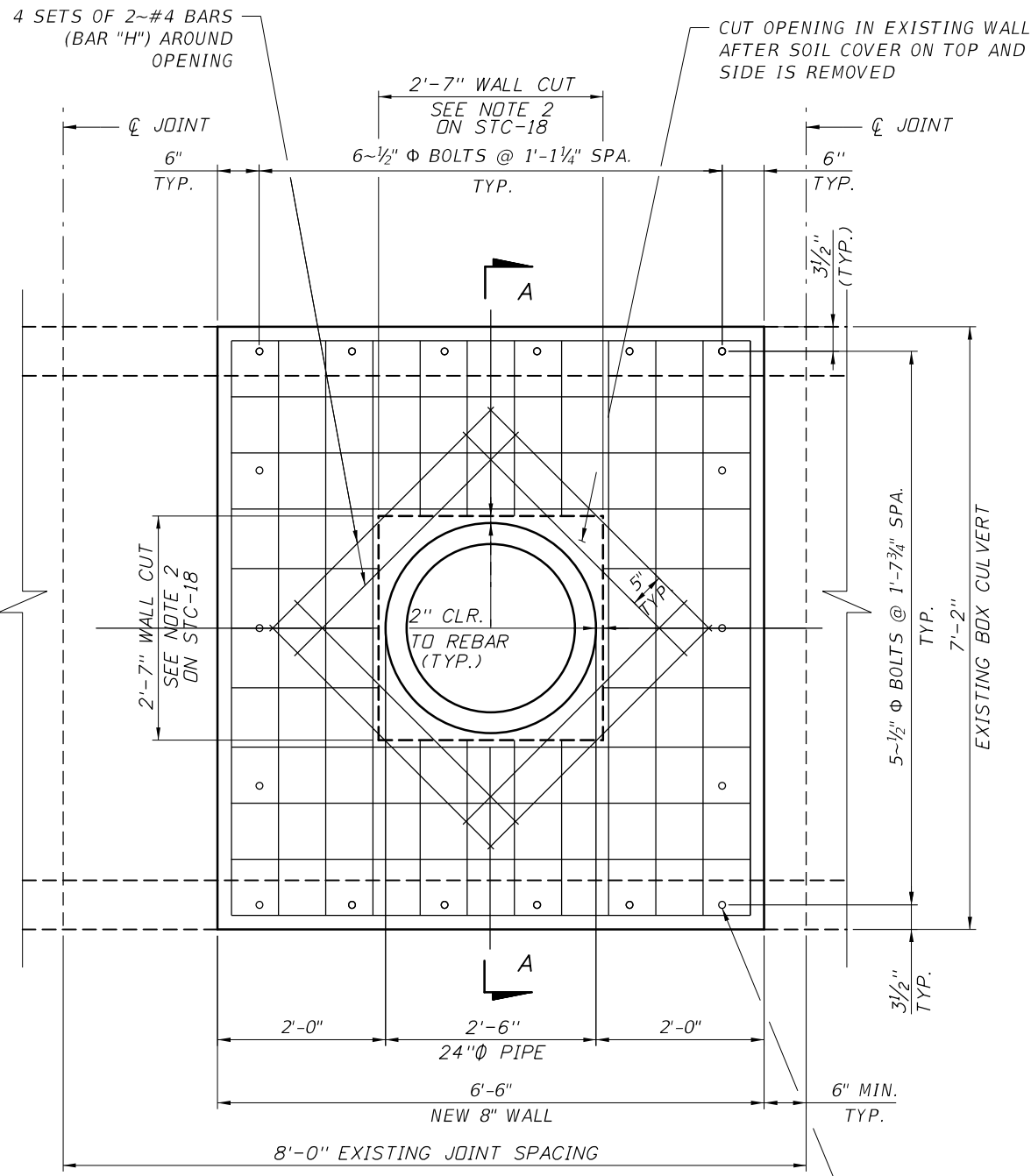
Names	Dates
Drawn by MG	9-7-10
Checked by SM	9-7-10
Designed by	
Checked by	
Approved by SHENNA McMASTER, P.E.	

1675 LEE ROAD
 WINTER PARK, FLORIDA 32789
 (407) 740-6110
 CERTIFICATE OF AUTHORIZATION No. 6174
 SHENNA McMASTER, P.E. No. 57537

NODARSE
 & ASSOCIATES, INC.

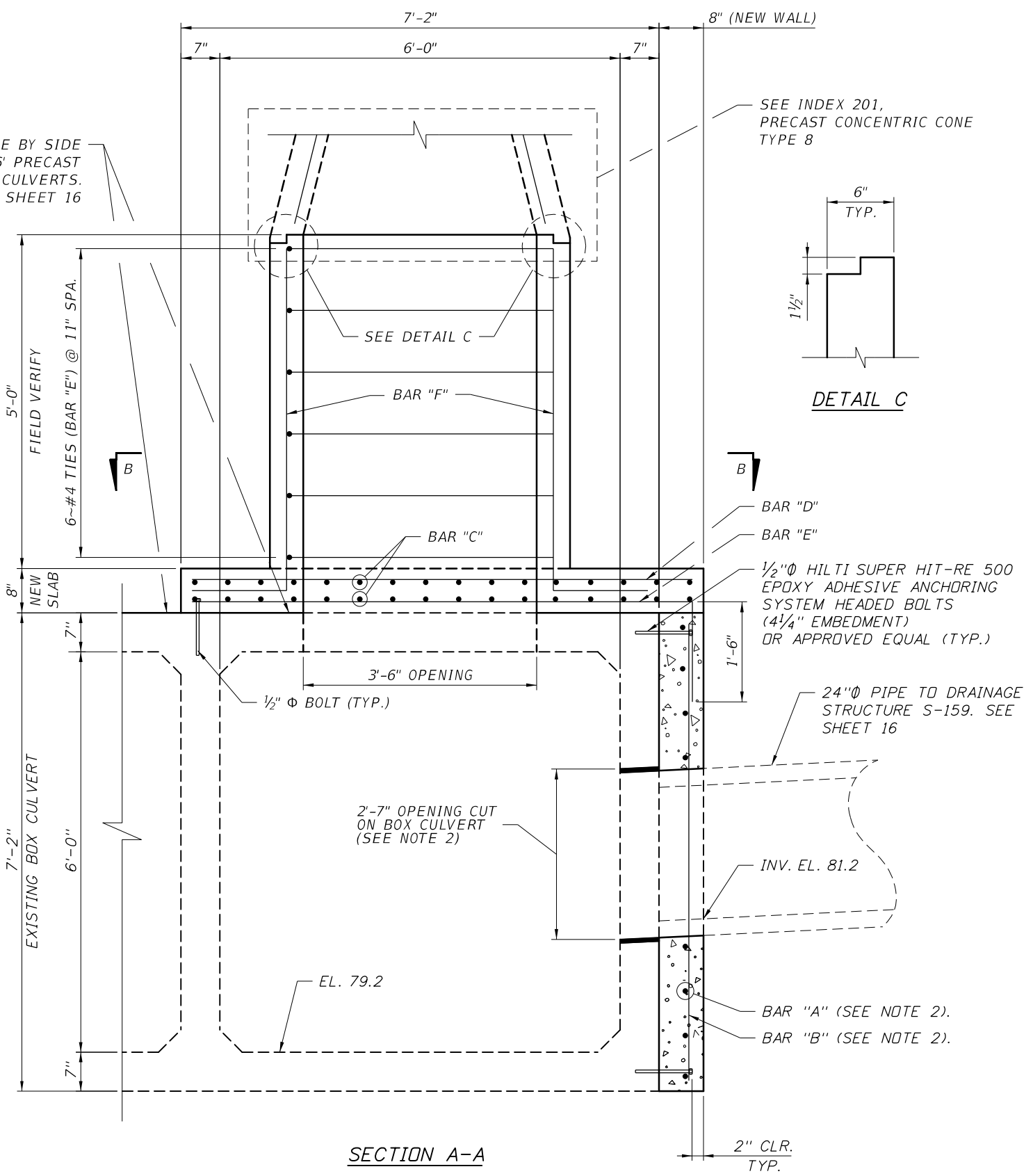
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
S.R. 423	ORANGE	5089-SECTION 2

SHEET TITLE:	SHEET No.
REPORT OF SPT BORINGS FOR STRUCTURE	STC-16
PROJECT NAME:	
CANADIAN COURT EXTENSION SECTION 1B/2A ORANGE COUNTY, FLORIDA	



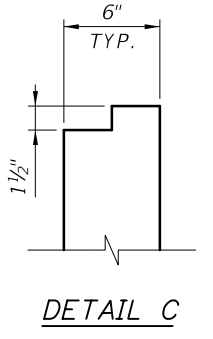
PARTIAL CULVERT WALL ELEVATION

EXISTING SIDE BY SIDE TWIN 6'x6' PRECAST BOX CULVERTS. SEE SHEET 16



SECTION A-A

SEE INDEX 201, PRECAST CONCENTRIC CONE TYPE 8



DETAIL C

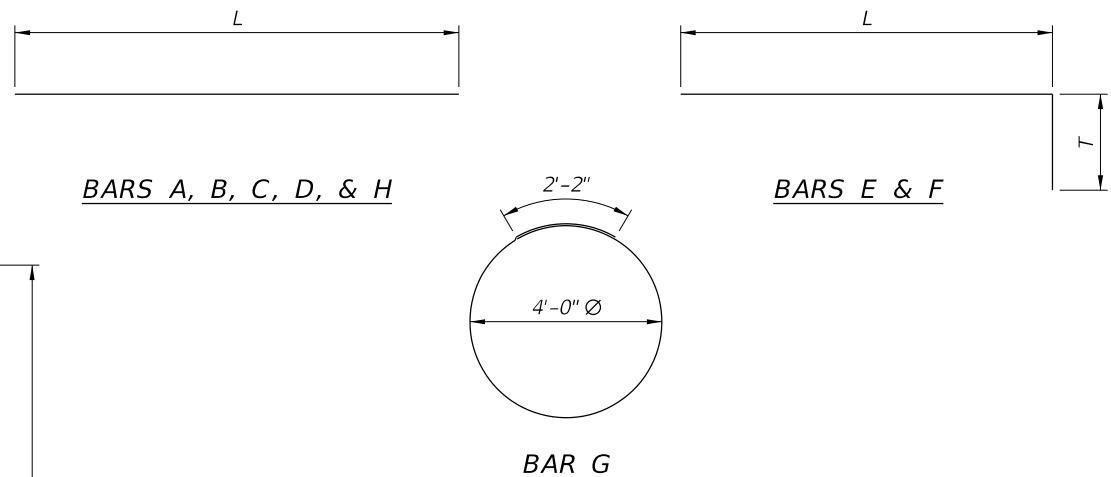
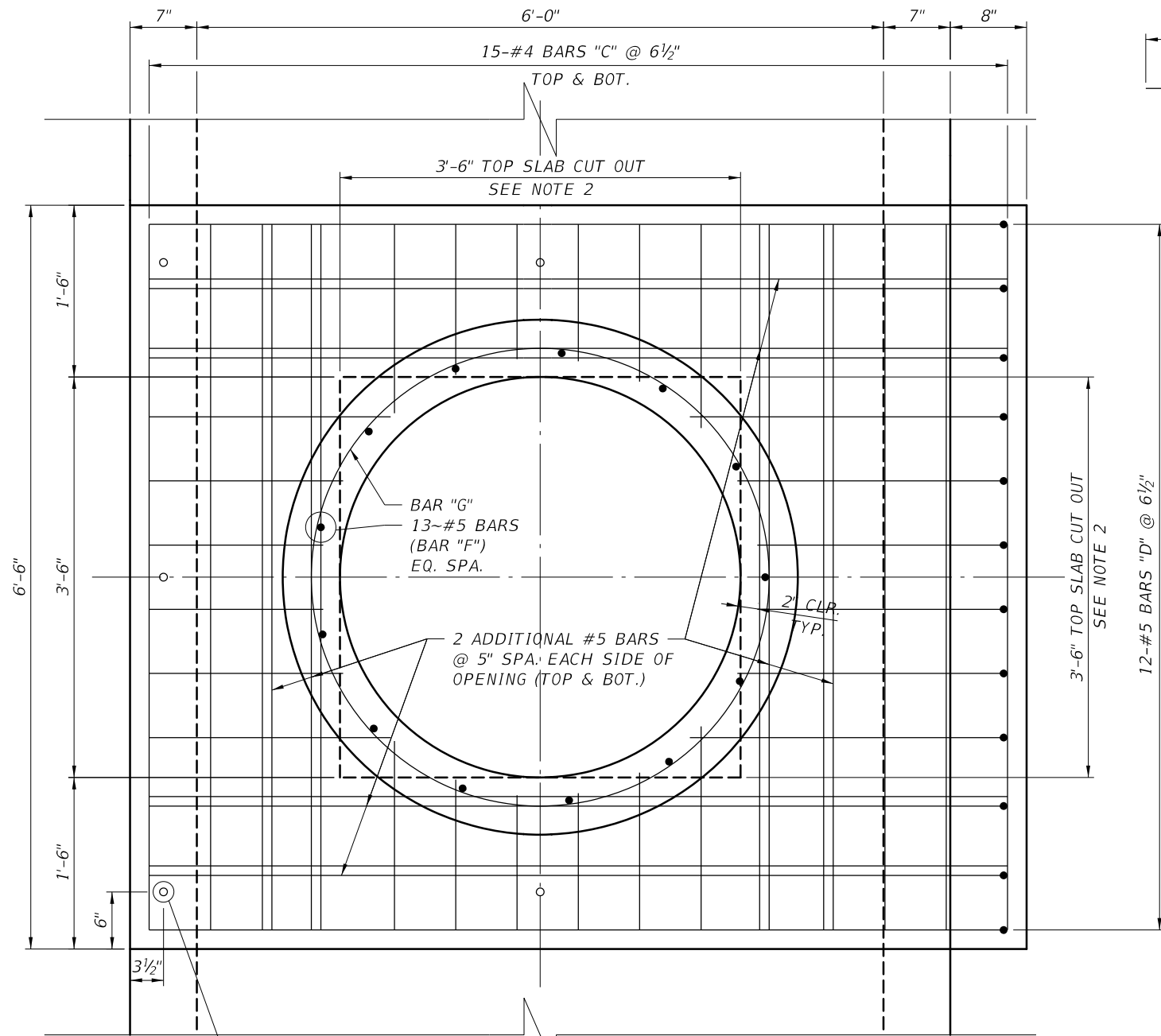
NOTES

- SEE SHEET STC-18 FOR APPLICABLE NOTES AND SECTION B-B.
- #4 ASTM A615 GRADE 60 EQUALLY SPACED AROUND PIPE AS SHOWN ON ELEVATION VIEW

1/2" Ø BOLT (TYP.) SHIFT LOCATION SLIGHTLY IF EXISTING REBARS ARE ENCOUNTERED DURING DRILLING. PATCH ABANDONED HOLE WITH APPROVED NON-SHRINK GROUT

5/4/2016 11:42:28 AM T:\cadd\jfp\connector\rd\section1B\struct\st_PipeConnectionDis01.dgn

REVISIONS						NAMES		DATES		Engineer of Record: Ram Kozhikote P.E. No. 44022	CIP NO. 5089 IB/2A		PIPE CONNECTION DETAILS EXISTING CULVERT TO DRAINAGE STRUCTURE S-159	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	AER	12-12	12-12					
						Checked by	KD	12-12			482 South Keller Road Orlando, FL 32810 (407) 647-7275 www.atkins.com	CANADIAN COURT/JOHN YOUNG PARKWAY CONNECTOR ROAD		
						Designed by	KD	12-12						
						Checked by	RK	12-12						
						Approved by	Ram Kozhikote			License No. 24			SHEET NO. STC-17	



BAR	L	T
A	6'-2"	
B	6'-10"	
C	6'-2"	
D	7'-6"	
E	7'-5"	2'-3"
F	5'-2"	1'-4"
H	3'-10"	

BARS A, B, C, D, & H

BARS E & F

BAR G

GENERAL NOTES:

- SEE SHEET ST-1 FOR APPLICABLE GENERAL NOTES.
- FIELD VERIFY ALL EXISTING DIMENSIONS/CONDITIONS AS REQUIRED.
- THE CULVERT DIMENSIONS AND OTHER INFORMATION ARE BASED ON RINKER SHOP DRAWING SHEETS 1 OF 8 THRU 8 OF 8 DATED JANUARY 2003.

NOTES:

- AFTER REMOVAL OF SOIL AT THE INDICATED LOCATION, PRESSURE WASH TO REMOVE ALL DIRT AROUND EXTERIOR FACE OF EXISTING BOX CULVERT.
- SAW CUT THE CONCRETE WALL TO THE INDICATED SIZE OF OPENING WHICH MAY REQUIRE INCREASE DEPENDING ON PIPE INSTALLATION SKEW. NOTIFY ENGINEER OF RECORD OF CHANGE FOR APPROVAL. SAW CUT THE CONCRETE TOP SLAB TO THE INDICATED SIZE OF THE OPENING.
- CLEAN CUT SURFACE, CUT AND BURN EXPOSED REINFORCING ONE INCH INTO CONCRETE SURFACE AND APPLY TYPE F-1 EPOXY COMPOUND FROM FDOT QPL, AS PER SECTION 926 OF THE FDOT SPECIFICATIONS.
- FIELD ADJUST 24" DIAMETER PIPE LENGTH AND ORIENTATION TO MINIMIZE THE PIPE TIE-IN SKEW TO EXISTING BOX CULVERT.
- INSTALL ADHESIVE ANCHORS INTO EXISTING BOX CULVERT WALL AND TOP SLAB IN THE PATTERN/SPACING AS SHOWN.
- UPON CURING OF THE ANCHORING SYSTEM INSTALL REBARS IN PLACE.
- SET AND SEAL FORM AS REQUIRED TO BLOCK ANY SPACE BETWEEN CUT OPENING AND OUTER SURFACE OF 24" Φ PIPE SO THAT NO CONCRETE LEAKS INTO THE EXISTING CULVERT.
- POUR FDOT CLASS IV ($F'c=5500$ PSI) CONCRETE FULL HEIGHT OF WALL, TOP SLAB, AND RISER.
- FOR VIEW B-B, FIELD CUT OR BEND BARS AT OPENING.
- COST FOR ALL EFFORTS ARE INCLUDED WITH S-159 AND S-159A (425-1-312 AND 425-2-101.)

SECTION B-B

1/2" Φ BOLT (TYP.)
 WITH 4 1/4" EMBEDMENT
 SHIFT LOCATION SLIGHTLY
 IF EXISTING REBARS ARE
 ENCOUNTERED DURING
 DRILLING. PATCH ABANDONED
 HOLE WITH APPROVED
 NON-SHRINK GROUT

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
Drawn by AER	12-12
Checked by KD	12-12
Designed by KD	12-12
Checked by RK	12-12
Approved by Ram Kozhikote	

Engineer of Record: Ram Kozhikote
 P.E. No. 44022
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 Orlando, FL 32810
 (407) 647-7275
 www.atkins.com
 License No. 24

CIP NO. 5089
 IB/2A



PIPE CONNECTION DETAILS (2 OF 2)
 EXISTING CULVERT TO DRAINAGE STRUCTURE S-159
 CANADIAN COURT/JOHN YOUNG PARKWAY
 CONNECTOR ROAD
 SHEET NO. STC-18

5/4/2016 11:42:29 AM T:\Cadd\JPC\connectorRd\Section1B\Struct\ST_PipeConnectionD1502.dgn