

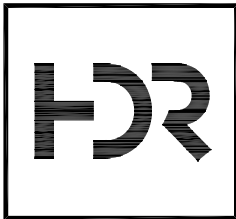
Contract Drawings For:

TRLIA  
WPIC West Levee Improvement Project  
STA 0+00 to 310+00

Prepared for:  
Three Rivers Levee Improvement Authority

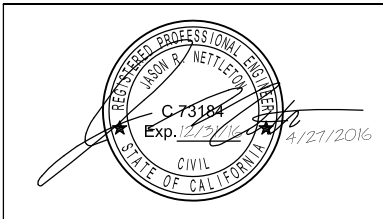
HDR Project Number: 242159  
TRLIA Contract Number: PH4 2016-01

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

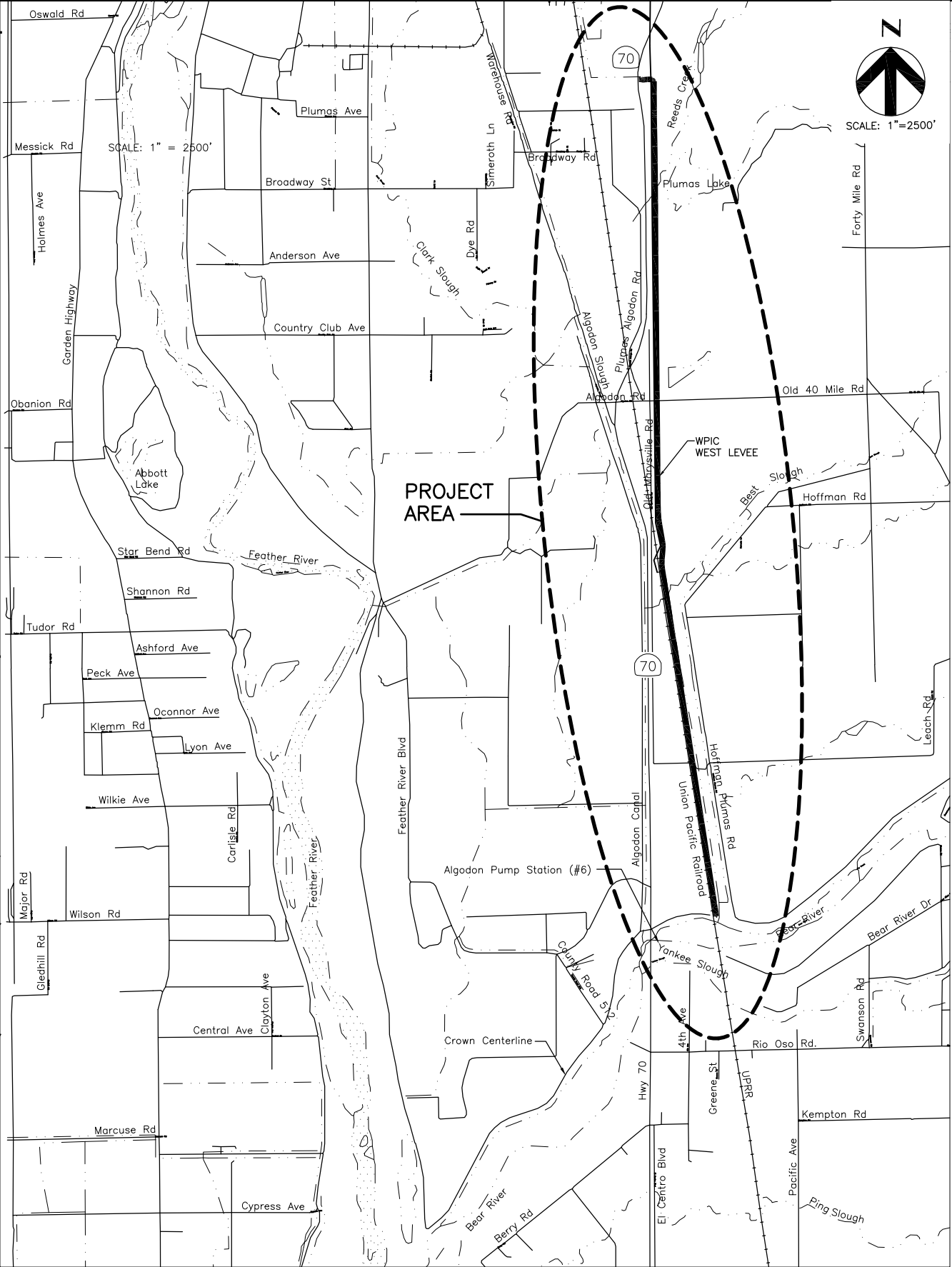
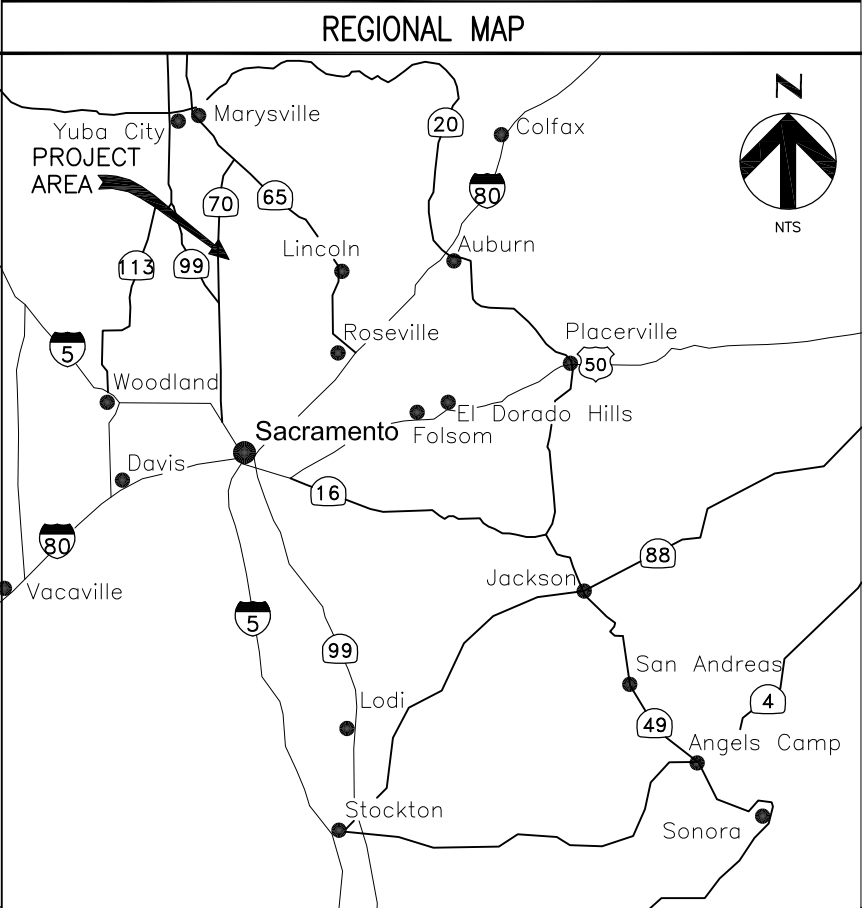


Three Rivers Levee Improvement Authority

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COVER SHEET		
FILENAME	G-001.dwg	SHEET
SCALE	NONE	G-001





Attachment E – 100% Project Drawings

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
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LOCATION MAPS

FILENAME	G-003.dwg
SCALE	NOT TO SCALE

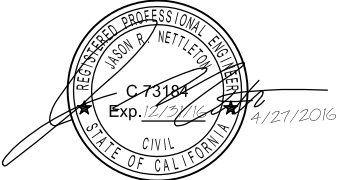
SHEET
G-003

1	2	3	4	5	6	7	8				
ABBREVIATIONS		Attachment E – 100% Project Drawings									
<div>AB ABND AC ADDN AEP AGGR ALT APN APPROX ASTM AVE AVG  BC BL BLDG BLKG BLVD BM BOC BRG BRKT BTW  C CB CF CI CL CLR CMH CMP CMU CO COMM CONC CONN CONST CONT CORR CP CVT CU</div> <div>AGGREGATE BASE ABANDON ASPHALTIC CEMENT CONCRETE ADDITION, ADDITIONAL ANNUAL EXCEEDANCE PROBABILITY AGGREGATE ALTERNATE ASSESSOR PARCEL NUMBER APPROXIMATE AMERICAN SOCIETY FOR TESTING AND MATERIALS AVENUE AVERAGE  BEGINNING OF CURVE BASELINE BUILDING BLOCKING BOULEVARD BENCHMARK BACK OF CURB BEARING BRACKET BETWEEN  CURVE CATCH BASIN CUBIC FEET (FOOT) CURB INLET CENTERLINE CLEAR COMMUNICATION MANHOLE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEAN OUT COMMUNICATION CONCRETE CONNECTION CONSTRUCTION CONTINUOUS, CONTINUATION CORRIDOR CONTROL POINT CULVERT CUBIC</div>		<div>DBL DEG DEMO DEP DI DIA DIAG DIM DIP DIST DIV DN DP DR DTL DWG  E EA EC EG EL ELDER-B ELEC ELEV EMBD ENCL ENGR ENTR EQ EQUIP EX EXP  FAB FDN FG FIG FL FPS FT FTG</div> <div>DOUBLE DEGREE DEMOLITION DEPRESSED DROP INLET DIAMETER DIAGONAL DIMENSION DUCTILE IRON PIPE DISTANCE DIVISION DOWN DEPTH DRIVE DETAIL DRAWING  EAST EACH END OF CURVE EXISTING GRADE ELEVATION ELDERBERRY SHRUB ELECTRICAL ELEVATION EMBEDDED ENCLOSURE ENGINEER ENTRANCE EQUAL EQUIPMENT EXISTING EXPANSION  FABRICATE (D), (TION) FOUNDATION FINISHED GRADE FIGURE FLOW, FLOW LINE FEET PER SECOND FEET, FOOT FOOTING</div>		<div>GAL GALV GB GIP GND GPD GPH GPM GP GR GSKT  HORIZ HP HT HWY  ID IN INC INV IRR  JB JT  KB  L LB LB/FT LB/IN LF LN LT</div> <div>GALLON GALVANIZED GRADE BREAK GALVANIZED IRON PIPE GROUND GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GUY POLE GRADE GASKET  HORIZONTAL HIGH PRESSURE, HIGH POINT HEIGHT HIGHWAY  IDENTIFICATION INCH, INCHES INCORPORATED INVERT IRRIGATION  JUNCTION BOX JOINT  KLEINFELDER BORING  LEFT, LINE POUND POUND(S) PER FOOT POUND(S) PER INCH LINEAR FOOT (FEET) LANE LEFT</div>		<div>MAX MH MIN MISC MJ MW  N NAD NAPOTC NGVD NTS  OC OD OG OH OHE ORIG  PC PCC PCF PERF PERM PZ PG&amp;E PI PL PLM POC PP PRC PSF PSI PT (PT) PVC PVI PVMT  Q QTY</div> <div>MAXIMUM MANHOLE MINIMUM MISCELLANEOUS MECHANICAL JOINT MONITORING WELL  NORTH NORTH AMERICAN DATUM NOT A PART OF THIS CONTRACT NATIONAL GEODETIC VERTICAL DATUM NOT TO SCALE  ON CENTER(S) OUTSIDE DIAMETER ORIGINAL GRADE OVERHEAD OVERHEAD ELECTRIC ORIGINAL  POINT OF CURVE PORTLAND CEMENT CONCRETE POUNDS PER CUBIC FOOT PERFORATED PERMANENT PIEZOMETER PACIFIC GAS AND ELECTRIC COMPANY POINT OF INTERSECTION PROPERTY LINE PROJECT LEVEE MILE POINT OF CURVE POWER POLE POINT OF REVERSE CURVE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT OF TANGENCY, POINT POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION PAVEMENT  RATE OF FLOW QUANTITY</div>		<div>R R/W RCP RD REF RM RR RSP RT RW  S SB SCB SCHED/SCH SECT SPEC SS STA STD SUB SYM  TC TCE TEL TEMP TOC TOL TOPO TOW TRLIA TYP  UG UTIL UPRR U.S. USACE  VAR VC VERT</div> <div>RADIUS RIGHT OF WAY REINFORCED CONCRETE PIPE ROAD, RECLAMATION DISTRICT REFERENCE RIVER MILE RAILROAD ROCK SLOPE PROTECTION RIGHT RELIEF WELL  SOUTH, SLOPE SOIL BENTONITE SOIL CLAY BENTONITE SCHEDULE SECTION SPECIFICATION SANITARY SEWER STATION STANDARD SUBSTITUTE SYMBOL  TOP OF CURVE TEMPORARY CONSTRUCTION EASMENT TELEPHONE TEMPORARY TOP OF CURVE, TOP OF CONCRETE TOP OF LEVEE TOPOGRAPHY TOP OF WALL THREE RIVERS LEVEE IMPROVEMENT AUTHORITY TYPICAL  UNDERGROUND UTILITY UNION PACIFIC RAILROAD UNITED STATES UNITED STATES ARMY CORPS OF ENGINEERS  VARIABLE VERTICAL CURVE VERTICAL</div>		<div>W WAPA WPIC WPRR WSE WT WY W/ W/O  XSECT  YR  ' "</div> <div>WEST WESTERN AREA POWER AUTHORITY WESTERN PACIFIC INTERCEPTOR CANAL WESTERN PACIFIC RAILROAD WATER SURFACE ELEVATION WEIGHT WAY WITH WITHOUT  CROSS SECTION  YEAR  FEET/FOOT INCH(ES)</div>	
		GENERAL NOTES									
		<div>1. THIS SHEET APPLIES TO THE ENTIRE SET OF DRAWINGS. LISTING OF ABBREVIATIONS DOES NOT IMPLY ALL ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.</div>									
		FOR BID									



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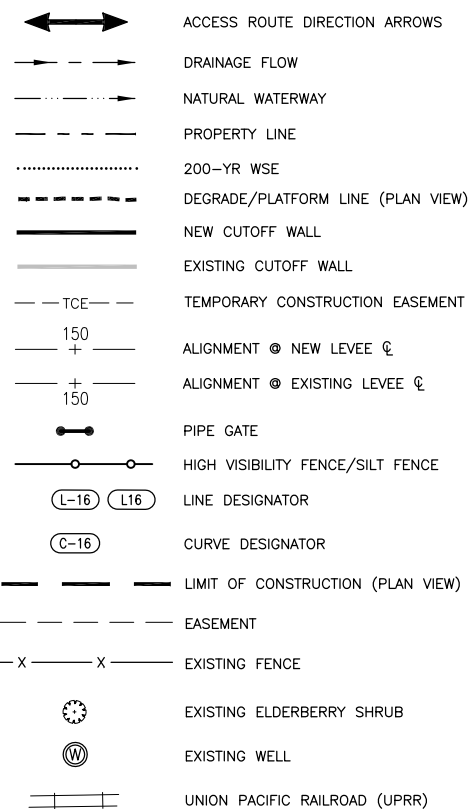
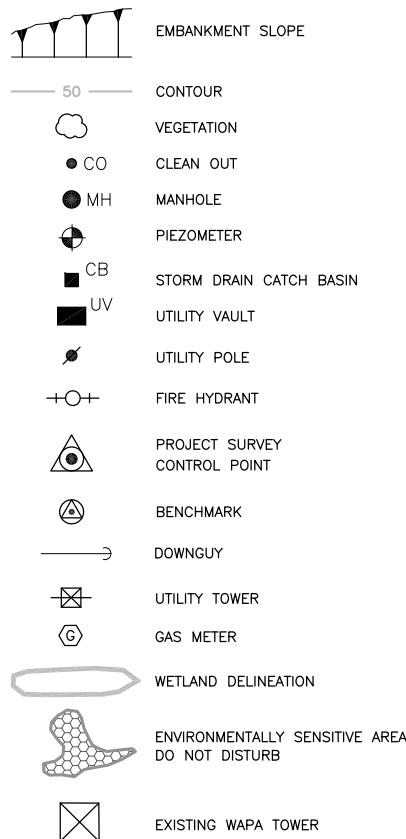
GENERAL ABBREVIATIONS

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SCALE	NONE

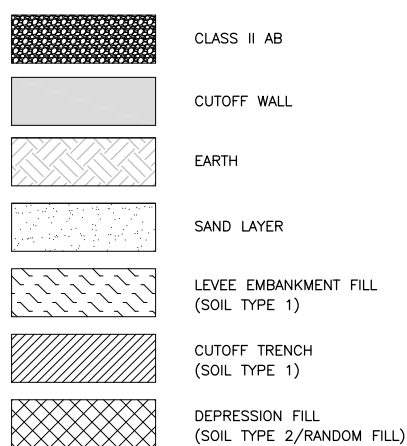
SHEET
G-004



## SITE PLAN SYMBOLOGY



## MATERIALS IN PLAN/SECTION



## UTILITY SYMBOLLOGY

NOTE:

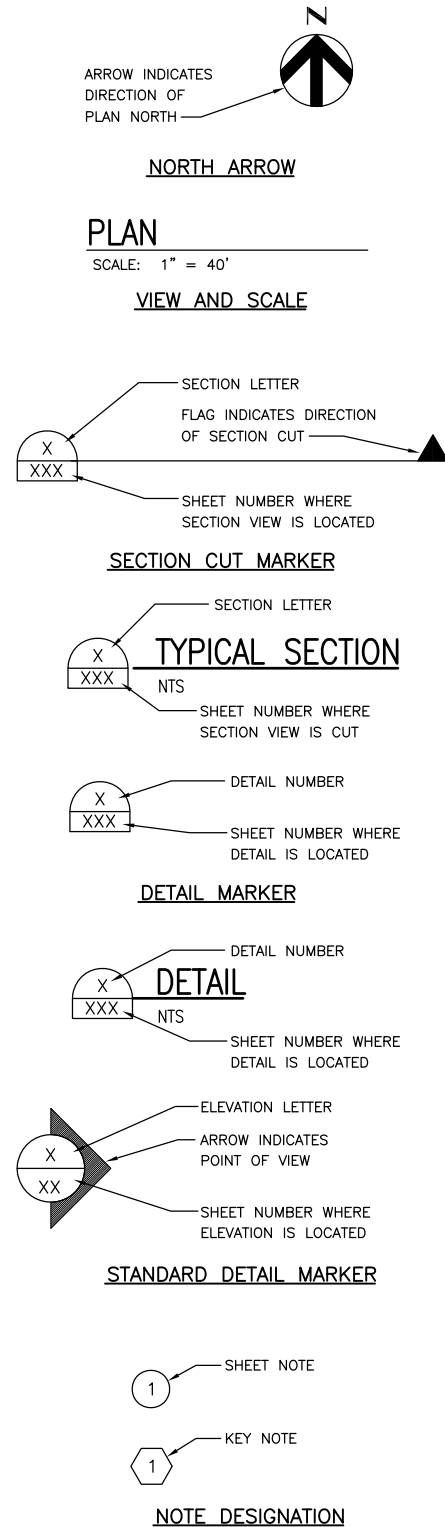
UTILITIES THAT ARE SUSPENDED ABOVE GRADE ARE DESIGNATED BY THE PREFIX "OH".

—OHT—	OVERHEAD TELEPHONE LINE
—UGT—	UNDERGROUND TELEPHONE LINE
—OHE—	OVERHEAD ELECTRIC LINE
—COM—	COMCAST
—GAS—	GAS LINE
—SS—	SANITARY SEWER LINE
—W—	WATER LINE

## DRAWING NOTES

1. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

## GENERAL SYMBOLOLOGY



## GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL WARNING SIGNS, DEVICES AND FEATURES NECESSARY TO PROTECT THE HEALTH AND SAFETY OF THE GENERAL PUBLIC AND WORKERS AND TO PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS APPLICABLE TO ALL WORK PERFORMED UNDER THE CONTRACT.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SIZES AND LOCATIONS OF ALL EXISTING FACILITIES AND FEATURES BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. UTILITY INFORMATION WAS COMPILED FROM DATA PROVIDED BY THE UTILITY OWNERS AND LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES, TO REMAIN IN PLACE, SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND OPERATIONS.
5. THE CONTRACTOR IS HEREBY NOTIFIED THAT, PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES WHO ARE INVOLVED WITH THIS PROJECT. IN ADDITION, THE CONTRACTOR IS TO REQUEST TO HAVE ALL UNDERGROUND UTILITIES, THAT MAY POSSIBLY CONFLICT WITH THE ABOVE OR BELOW GROUND IMPROVEMENTS, LOCATED IN THE FIELD. THE CONTRACTOR AND ANY SUBCONTRACTOR, IS REQUIRED TO NOTIFY UNDERGROUND SERVICE ALERT 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION BY CALLING (800) 227-2600.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UNION PACIFIC RAILROAD (UPRR), ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE AGENCY SURVEYORS WITH AT LEAST 48 HOURS ADVANCE NOTICE PRIOR TO REPLACEMENT OF MONUMENT AND/OR SURVEY MARKER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. REFER TO THE SPECIFICATIONS FOR RECORD DRAWING REQUIREMENTS.
8. DRAWINGS SHOWN WITH AERIAL PHOTOS ARE PROVIDED FOR REFERENCE ONLY. ALL FACILITIES MAY NOT BE SHOWN ON PHOTOS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO THE LOCATION OF EXISTING FACILITIES THAT MAY BE AFFECTED BY CONSTRUCTION.

## PROJECT NOTES

## BASIS OF DESIGN

1. GEOTECHNICAL INFORMATION USED FOR THIS DRAWING SET WAS PROVIDED BY HDR IN THE FOLLOWING DOCUMENT:
  - A. GEOTECHNICAL DATA REPORT WESTERN PACIFIC INTERCEPTOR CANAL WEST LEVEE AND BEAR RIVER NORTH LEVEE, APRIL 2016.
2. THE DESIGN WATER SURFACE ELEVATIONS WERE PROVIDED BY MBK IN THE FOLLOWING DOCUMENT:
  - A. 200-YR DESIGN WATER SURFACE ELEVATION IN WESTERN PACIFIC INTERCEPTOR CANAL TECHNICAL MEMORANDUM, MARCH 2014.
3. THE PERFORMANCE OF LEVEE SYSTEMS IS DEPENDENT UPON BOTH THE DESIGN CRITERIA AND THE LONG TERM OPERATION AND MAINTENANCE OF THE LEVEES. HDR HAS PREPARED THESE PLANS AND ASSOCIATED SPECIFICATIONS IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE USING INFORMATION FROM MULTIPLE SOURCES, INCLUDING TRIA'S OTHER DESIGN CONSULTANTS. IF EXTREME FLOODS (EXCEEDING THE DESIGN PROFILE), EARTHQUAKES, OR OTHER LOADING CONDITIONS NOT EVALUATED IN THE DESIGN OCCUR, THE INTEGRITY OF THE LEVEE SYSTEM MAY BE COMPROMISED.

SWPPP

THE CONTRACTOR SHALL IMPLEMENT THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS. THE SWPPP WAS PREPARED AND PROVIDED BY HDR.

PERMIT NOTES

1. A PERMIT FROM THE CENTRAL VALLEY FLOOD PROTECTION BOARD HAS BEEN OBTAINED IN ORDER TO CONSTRUCT THE IMPROVEMENTS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS AS INDICATED IN THIS PERMIT. A COPY OF THIS PERMIT SHALL BE POSTED ON THE CONSTRUCTION SITE.
2. SEE THE PROJECT SPECIFICATIONS FOR ALL PERMITS APPLICABLE TO THE CONTRACT.

## CONTRACT REPRESENTATIVES

PUBLIC / UTILITY SERVICE	REPRESENTATIVES		TELEPHONE
UNDERGROUND SERVICE ALERT	USA	---	800-227-2600
OWNER	TRLIA	PAUL BRUNNER	530-749-5679
DESIGN ENGINEER	HDR ENGINEERING, INC.	DANIEL JABBOUR	916-817-4700
GEOTECHNICAL ENGINEER	HDR ENGINEERING, INC.	KIMBERLY BROWN	916-817-4700
SURVEYOR	ANDREGG	MARK BARDAKJIAN	530-885-7072
ENVIRONMENTAL	AECOM	ANNE KING	619-517-2753
ELECTRICITY	PG&E	JASON THOMAS	530-246-6548
PUBLIC WORKS	YUBA COUNTY	---	530-749-5420
O&M	RECLAMATION DISTRICT 799	STEVE FORDICE	530-742-0520
RAIL ROAD	UNION PACIFIC RAIL ROAD	KEVIN YODER	916-789-5152



ISSUE	DATE	DESCRIPTION

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DRAWN BY	A. JACKSON
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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
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Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

## GENERAL SYMBOLS AND LEGENDS

FILENAME	G-005.dwg
SCALE	NONE

SHEET
G-005





Attachment E – 100% Project Drawings

PT ID	NORTH	EAST	MON EL	DESCRIPTION	COMBINED FACTOR (CF)
AH9379	2282090.53	6655085.93	112.80	SURVEY NAIL	0.99993259
AJ7965	2283746.19	6656301.75	148.40	CORS IDENTIFIER	0.99993307
KS0953	2183259.06	6624940.50	60.04	SURVEY BENCHMARK	0.99991547
KS1971	2173621.01	6674279.34	61.82	SURVEY BENCHMARK	0.99991499
DG6997	2070764.17	6746721.19	119.88	CORS IDENTIFIER	0.99992327
DH6524	2232632.78	6655759.22	80.71	SURVEY BENCHMARK	0.99992122
DH6488	2112279.89	6691533.45	42.65	SURVEY BENCHMARK	0.99991698
KS0774	2204435.45	6704973.80	93.73	SURVEY BENCHMARK	0.99991722
DH6497	2127260.33	6655023.33	39.70	SURVEY BENCHMARK	0.99991568

NOTES:

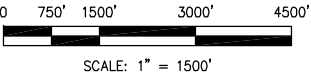
- TOPOGRAPHY FOR THE WPIC WEST LEVEE WAS BASED ON LIGHT DETECTION AND RANGING (LIDAR) MAPPING DEVELOPED FOR THE DEPARTMENT OF WATER RESOURCES (DWR) CENTRAL VALLEY FLOODPLAIN EVALUATION AND DELINEATION (CVFED) PROGRAM. THE LIDAR CONTAINS A CONTOUR INTERVAL OF 1.0 FEET AND GROUND POINT DATA (X, Y, AND Z) EVERY SQUARE METER. VERTICAL ACCURACY OF THE MAPPING IS 0.3 FEET (0.6 FEET AT THE 95% CONFIDENCE LEVEL) AND HORIZONTAL ACCURACY IS 2.0 FEET (3.5 FEET AT THE 95% CONFIDENCE LEVEL). FLI-MAP SURVEY CONTROL REPORT: CALIFORNIA CENTRAL VALLEY URBAN PROTECTION LEVEES, MARCH-APRIL 2007 IS THE DOCUMENT FOR THE LIDAR AND CONTROL POINTS DATA.
- NOT ALL CONTROL POINTS ARE SHOWN OR MAY STILL EXIST. CONTRACTOR TO CONFIRM CONTROL TO BE USED FOR THIS PROJECT.

PROJECT SURVEY CONTROL

AERIAL MAPPING COMPILED AT 1"=40' WITH A 1' CONTOUR INTERVAL

THE HORIZONTAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983 (NAD83) BEING THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 2 (GRID SURFACE), EPOCH 2002, US SURVEY FEET.

THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BEING BASED ON NATIONAL GEODETIC SURVEY (NGS) POINTS LISTED AND DERIVED BY GLOBAL POSITIONING SYSTEM (GPS) STATIC METHOD.



FOR BID



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PROJECT NUMBER	242159
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Three Rivers Levee Improvement Authority

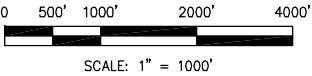
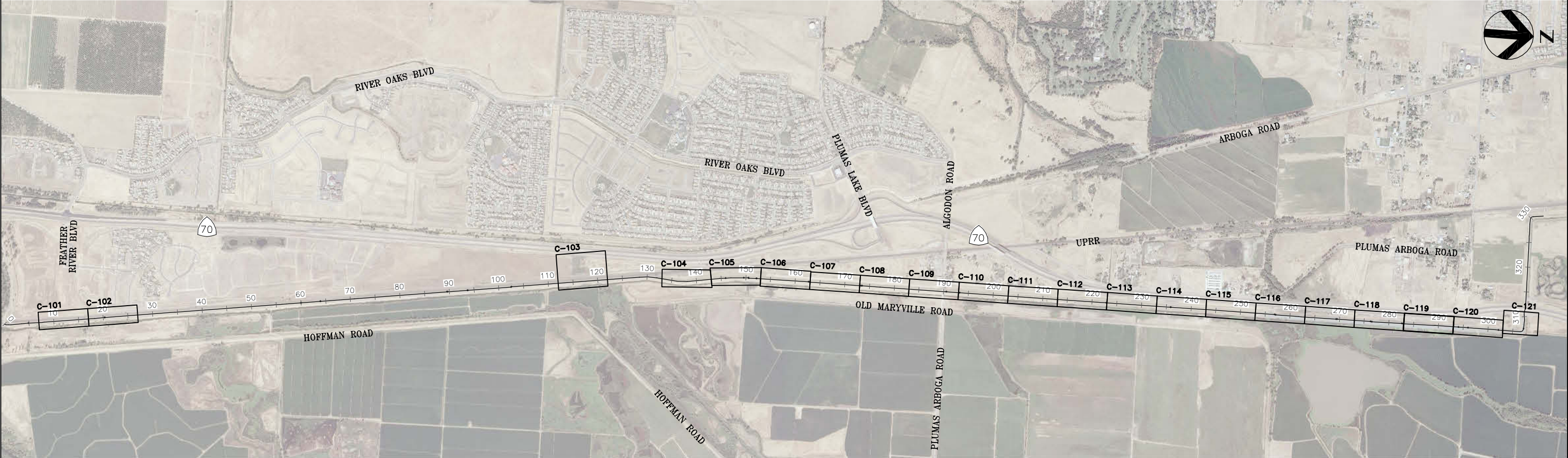
TRLIA  
WPIC West Levee  
Improvement Project  
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SURVEY CONTROL MAP

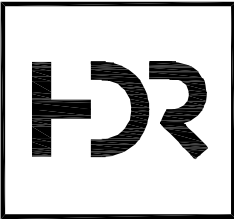
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SHEET
G-006



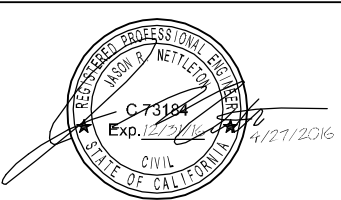


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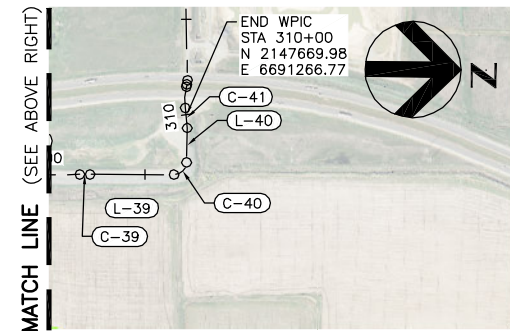
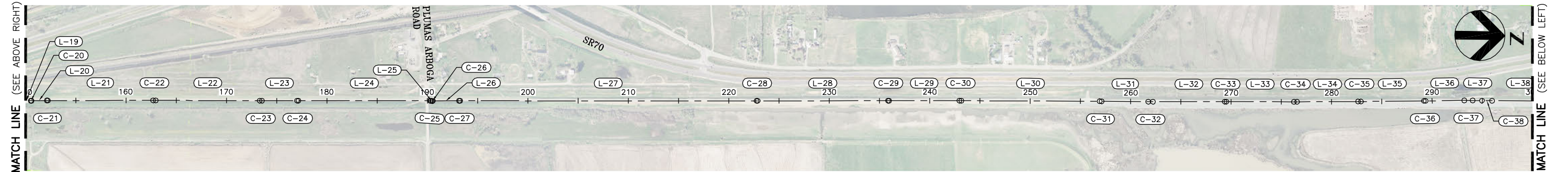
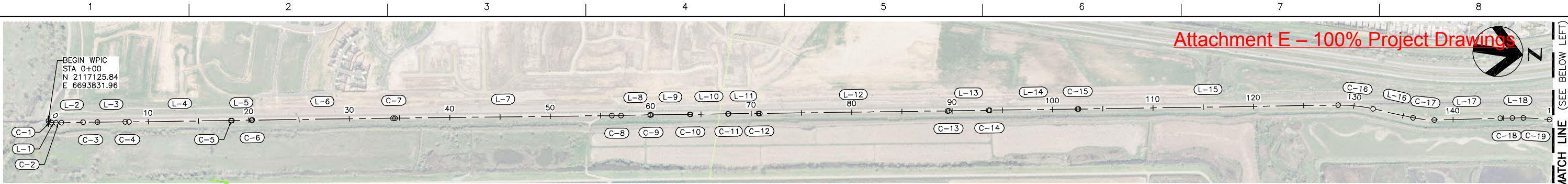


Three Rivers Levee Improvement Authority

TRLIA  
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OVERALL SITE PLAN AND KEY MAP		
FILENAME	G-007.dwg	SHEET <b>G-007</b>
SCALE	1" = 1000'	



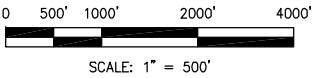


CONTROL LINE – LINE TABLE				
LINE NO.	LENGTH	DIRECTION	START POINT (N,E)	END POINT (N,E)
L-1	43.28	N6°09'08.36"W	2117158.44, 6693843.48	2117201.48, 6693838.84
L-2	217.03	N9°19'22.85"W	2117256.30, 6693831.39	2117470.47, 6693796.23
L-3	277.74	N8°22'50.68"W	2117610.22, 6693774.47	2117884.99, 6693733.98
L-4	1015.42	N8°48'00.55"W	2117921.18, 6693728.52	2118924.65, 6693573.17
L-5	193.87	N9°19'41.54"W	2118933.75, 6693571.72	2119125.06, 6693540.29
L-6	1401.97	N8°49'53.69"W	2119133.61, 6693538.93	2120518.97, 6693323.68
L-7	2158.67	N8°43'25.00"W	2120537.59, 6693320.80	2122671.29, 6692993.40
L-8	290.01	N9°15'05.66"W	2122762.30, 6692979.01	2123048.54, 6692932.38
L-9	383.43	N8°40'41.93"W	2123058.43, 6692930.82	2123437.47, 6692872.97
L-10	375.71	N8°58'48.62"W	2123442.67, 6692872.16	2123813.77, 6692813.52
L-11	297.36	N8°40'55.77"W	2123818.91, 6692812.72	2124112.86, 6692767.83
L-12	1868.46	N8°49'34.81"W	2124125.30, 6692765.92	2125971.63, 6692479.22
L-13	394.71	N8°54'38.47"W	2125986.18, 6692476.95	2126376.13, 6692415.81
L-14	874.47	N8°51'03.16"W	2126386.44, 6692414.20	2127250.50, 6692279.65
L-15	2585.06	N8°54'22.67"W	2127260.06, 6692278.16	2129813.95, 6691877.94
L-16	407.87	N4°42'53.23"E	2130163.54, 6691865.15	2130570.04, 6691898.67
L-17	657.67	N9°38'22.13"W	2130780.98, 6691889.60	2131429.37, 6691779.47
L-18	111.11	N8°16'06.02"W	2131547.57, 6691760.85	2131657.52, 6691744.87
L-19	89.82	N0°48'19.51"W	2131917.02, 6691724.28	2132006.83, 6691723.02
L-20	151.98	N1°16'47.37"W	2132015.11, 6691722.87	2132167.05, 6691719.47

CONTROL LINE – LINE TABLE				
LINE NO.	LENGTH	DIRECTION	START POINT (N,E)	END POINT (N,E)
L-21	1047.04	N0°40'17.90"W	2132177.67, 6691719.29	2133224.63, 6691707.02
L-22	1034.88	N0°22'33.03"W	2133250.44, 6691706.78	2134285.30, 6691700.00
L-23	348.76	N0°38'47.23"W	2134308.91, 6691699.78	2134657.65, 6691695.85
L-24	1311.45	N0°28'51.57"W	2134672.09, 6691695.71	2135983.49, 6691684.70
L-25	12.63	N5°37'02.76"E	2135989.87, 6691684.98	2136002.44, 6691686.22
L-26	260.85	N1°04'11.38"W	2136009.43, 6691686.50	2136270.24, 6691681.63
L-27	2950.98	N0°31'41.33"W	2136279.69, 6691681.50	2139230.55, 6691654.30
L-28	1296.36	N0°39'17.74"W	2139241.61, 6691654.18	2140537.89, 6691639.36
L-29	701.41	N0°32'15.49"W	2140548.12, 6691639.26	2141249.50, 6691632.68
L-30	1375.55	N0°18'56.39"W	2141268.87, 6691632.53	2142644.40, 6691624.95
L-31	462.70	N0°04'11.16"W	2142665.86, 6691624.88	2143128.56, 6691624.32
L-32	714.10	N0°36'30.74"W	2143175.57, 6691624.04	2143889.64, 6691616.45
L-33	672.37	N0°24'53.08"W	2143908.55, 6691616.30	2144578.90, 6691611.44
L-34	607.26	N0°46'08.73"W	2144609.82, 6691611.12	2145217.03, 6691602.97
L-35	626.26	N1°06'12.50"W	2145246.20, 6691602.49	2145872.35, 6691590.43
L-36	384.79	N1°17'43.87"W	2145889.11, 6691590.08	2146273.79, 6691581.38
L-37	91.76	N0°37'55.96"E	2146357.90, 6691580.89	2146449.66, 6691581.90
L-38	565.72	N0°31'03.53"W	2146550.00, 6691582.00	2147115.70, 6691576.89
L-39	436.76	N0°05'34.63"E	2147168.98, 6691576.70	2147605.74, 6691577.40
L-40	178.73	N89°01'32.55"W	2147670.83, 6691513.51	2147673.87, 6691334.80

CONTROL LINE – CURVE TABLE							
CURVE NO.	PI STATION	Δ	RADIUS	TANGENT	LENGTH	CHORD DIRECTION	CHORD LENGTH
C-1	0+19.17	51°13'03"	40.00'	19.17'	35.76'	N19°27'23.17"E	34.58'
C-2	1+06.72	3°10'14"	1000.00'	27.68'	55.34'	N7°44'15.61"W	55.33'
C-3	4+22.13	0°56'32"	8600.00'	70.72'	141.43'	N8°51'06.77"W	141.43'
C-4	7+88.89	0°25'10"	5000.00'	18.30'	36.60'	N8°35'25.62"W	36.60'
C-5	18+27.21	0°31'41"	1000.00'	4.61'	9.22'	N9°03'51.05"W	9.22'
C-6	20+30.03	0°29'48"	1000.00'	4.33'	8.67'	N9°04'47.62"W	8.67'
C-7	34+45.76	0°06'29"	10000.00'	9.42'	18.84'	N8°46'39.35"W	18.84'
C-8	56+59.92	0°31'41"	10000.00'	46.07'	92.15'	N8°59'15.33"W	92.15'
C-9	60+01.01	0°34'24"	1000.00'	5.00'	10.01'	N8°57'53.79"W	10.01'
C-10	63+92.08	0°18'07"	1000.00'	2.63'	5.27'	N8°49'45.27"W	5.27'
C-11	67+73.02	0°17'53"	1000.00'	2.60'	5.20'	N8°49'52.19"W	5.20'
C-12	70+79.27	0°08'39"	5000.00'	6.29'	12.58'	N8°45'15.29"W	12.58'
C-13	89+61.38	0°05'04"	10000.00'	7.36'	14.72'	N8°52'06.64"W	14.72'
C-14	93+68.67	0°03'35"	10000.00'	5.22'	10.44'	N8°52'50.82"W	10.44'
C-15	102+53.20	0°03'20"	10000.00'	4.84'	9.67'	N8°52'42.91"W	9.67'
C-16	130+19.26	13°37'16"	1475.00'	176.16'	350.66'	N2°05'44.72"W	349.83'
C-17	137+08.03	14°21'15"	845.00'	106.41'	211.70'	N2°27'44.45"W	211.14'
C-18	145+30.82	1°22'16"	5000.00'	59.83'	119.65'	N8°57'14.08"W	119.65'
C-19	148+32.20	7°27'47"	2000.00'	130.44'	260.51'	N4°32'12.76"W	260.32'
C-20	150+56.22	0°28'28"	1000.00'	4.14'	8.28'	N1°02'33.44"W	8.28'
C-21	152+17.65	0°36'29"	1000.00'	5.31'	10.61'	N0°58'32.63"W	10.61'

CONTROL LINE – CURVE TABLE							
CURVE NO.	PI STATION	Δ	RADIUS	TANGENT	LENGTH	CHORD DIRECTION	CHORD LENGTH
C-22	162+82.90	0°17'45"	5000.00'	12.91'	25.81'	N0°31'25.46"W	25.81'
C-23	173+42.49	0°16'14"	5000.00'	11.81'	23.62'	N0°30'40.13"W	23.62'
C-24	177+10.27	0°09'56"	5000.00'	7.22'	14.44'	N0°33'49.40"W	14.44'
C-25	190+32.14	6°05'54"	60.00'	3.20'	6.39'	N2°34'05.59"E	6.38'
C-26	190+51.47	6°41'14"	60.00'	3.51'	7.00'	N2°16'25.69"E	7.00'
C-27	193+20.55	0°32'30"	1000.00'	4.73'	9.45'	N0°47'56.35"W	9.45'
C-28	222+81.78	0°07'36"	5000.00'	5.53'	11.06'	N0°35'29.53"W	11.06'
C-29	235+88.79	0°07'02"	5000.00'	5.12'	10.24'	N0°35'46.62"W	10.24'
C-30	243+05.01	0°13'19"	5000.00'	9.69'	19.37'	N0°25'35.94"W	19.37'
C-31	257+00.97	0°14'45"	5000.00'	10.73'	21.46'	N0°11'33.78"W	21.46'
C-32	261+97.91	0°32'20"	5000.00'	23.51'	47.02'	N0°20'20.95"W	47.02'
C-33	269+43.98	0°11'38"	5000.00'	8.46'	16.91'	N0°30'41.91"W	16.91'
C-34	276+40.26	0°21'16"	5000.00'	15.46'	30.92'	N0°35'30.90"W	30.92'
C-35	282+77.58	0°20'04"	5000.00'	14.59'	29.18'	N0°56'10.61"W	29.18'
C-36	289+26.81	0°11'31"	5000.00'	8.38'	16.76'	N1°11'58.19"W	16.76'
C-37	293+62.04	1°55'40"	2500.00'	42.06'	84.11'	N0°19'53.96"W	84.11'
C-38	295+46.03	1°08'59"	5000.00'	50.17'	100.34'	N0°03'26.22"E	100.34'
C-39	301+88.56	0°36'38"	5000.00'	26.64'	53.28'	N0°12'44.45"W	53.28'
C-40	307+15.96	89°07'07"	65.00'	64.01'	101.10'	N44°27'58.96"W	91.21'
C-41	309+84.56	13°05'16"	460.07'	52.77'	105.09'	S84°25'49.56"W	104.86'



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

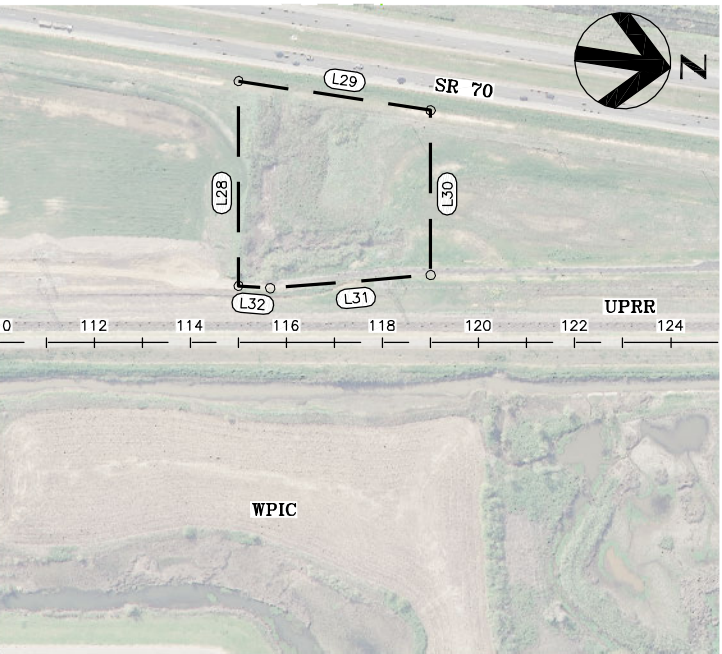
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

CONTROL LINE PLAN AND TABLES

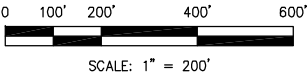
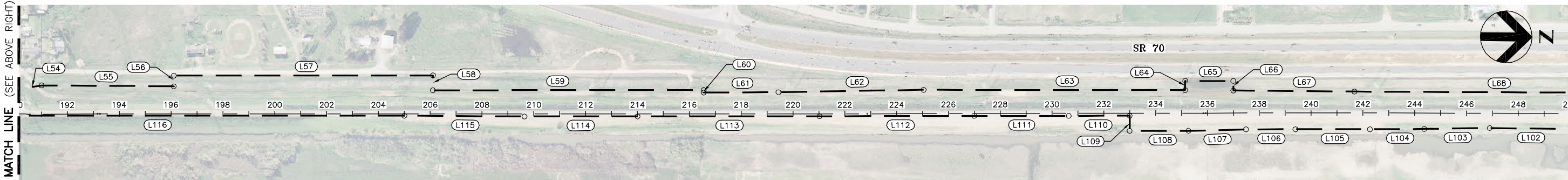
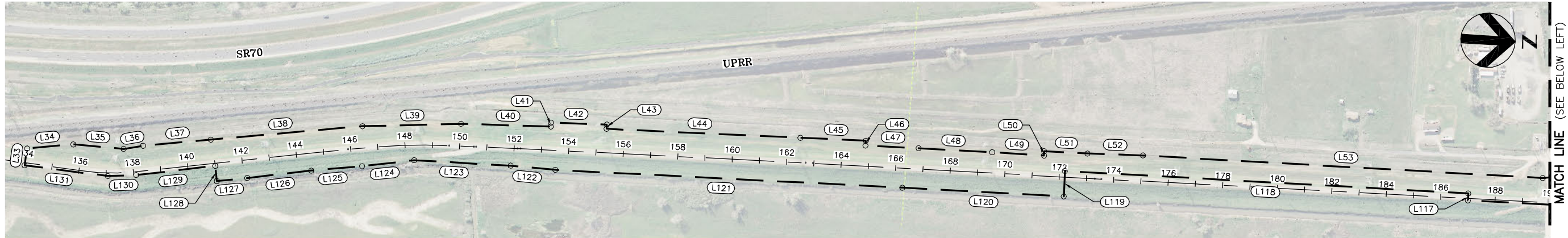
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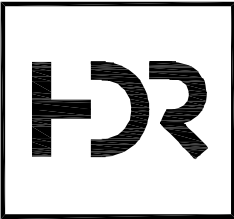
Attachment E – 100% Project Drawings



NOTE:  
SEE SHEET G-010 FOR CONSTRUCTION  
LIMIT LINE TABLE

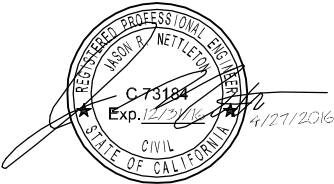


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
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Sta 0+00 to 310+00

CONSTRUCTION LIMIT PLAN

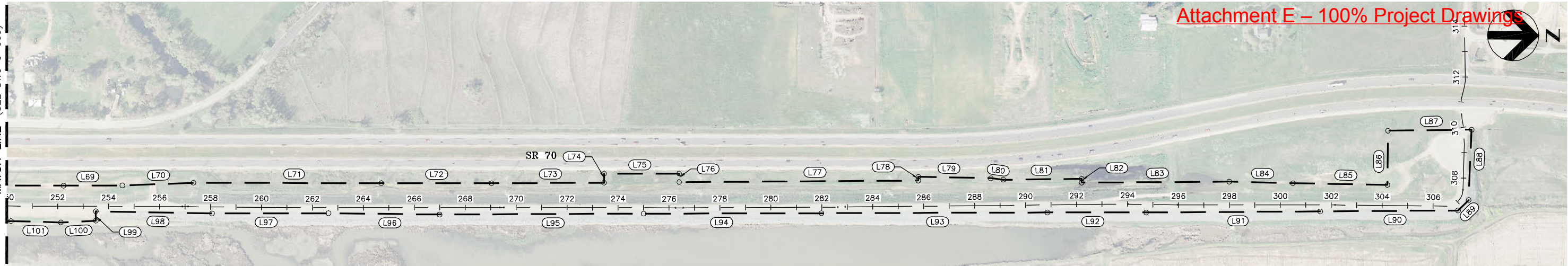
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SHEET	G-009
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MATCH LINE (SEE DWG G-009)

Attachment E – 100% Project Drawings



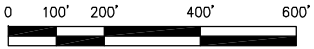
CONSTRUCTION LIMIT LINE TABLE				
LINE NO.	LINE/CHORD DIRECTION	LENGTH	START NORTHING	START EASTING
L1	S23°15'25"E	110.93	2117204.65	6692633.52
L2	S72°24'28"W	253.45	2117281.25	6692875.11
L3	S75°55'42"W	144.03	2117316.27	6693014.82
L4	S80°46'21"W	120.98	2117335.67	6693134.24
L5	N89°28'37"W	121.94	2117334.55	6693256.17
L6	N0°00'00"E	81.59	2117252.96	6693256.17
L7	S88°35'10"W	160.98	2117256.94	6693417.10
L8	N79°09'21"W	247.93	2117210.29	6693660.60
L9	S84°59'26"W	40.00	2117213.78	6693700.45
L10	N5°00'34"W	72.95	2117141.12	6693706.82
L11	S84°59'26"W	119.44	2117151.55	6693825.80
L12	S8°55'58"E	565.28	2117709.97	6693738.03
L13	S8°45'22"E	499.92	2118204.06	6693661.93
L14	S8°55'42"E	498.89	2118696.90	6693584.50
L15	S8°52'51"E	510.16	2119200.94	6693505.74
L16	S8°47'25"E	492.13	2119687.30	6693430.54
L17	S8°49'29"E	451.96	2120133.90	6693361.20
L18	S81°10'06"W	97.59	2120148.89	6693457.64
L19	N9°22'37"W	195.05	2119956.44	6693489.42
L20	N10°23'07"W	341.81	2119620.22	6693551.03
L21	N8°06'50"W	1724.99	2117912.50	6693794.50
L22	N8°17'52"W	687.68	2117232.02	6693893.74
L23	N1°04'31"E	119.81	2117112.23	6693891.50
L24	N87°33'02"E	211.47	2117103.19	6693680.22
L25	S66°12'36"E	286.80	2117218.88	6693417.79
L26	N88°24'17"E	502.98	2117204.88	6692915.00
L27	N66°44'35"E	258.70	2117102.73	6692677.32
L28	S81°05'37"W	426.32	2128468.91	6691969.47
L29	N0°16'11"W	404.38	2128402.90	6691548.29
L30	N81°05'37"E	342.89	2128807.28	6691546.38
L31	S13°39'53"E	334.63	2128860.37	6691885.14
L32	S4°32'42"E	66.51	2128535.20	6691964.20

CONSTRUCTION LIMIT LINE TABLE				
LINE NO.	LINE/CHORD DIRECTION	LENGTH	START NORTHING	START EASTING
L33	S85°17'07"E	62.19	2130373.40	6691829.85
L34	S8°40'00"E	169.96	2130541.42	6691804.24
L35	S1°36'46"W	185.32	2130726.67	6691809.46
L36	S12°34'36"E	72.06	2130797.00	6691793.77
L37	S8°44'17"E	249.48	2131043.58	6691755.87
L38	S8°34'04"E	557.31	2131594.67	6691672.84
L39	S4°55'25"E	361.83	2131955.16	6691641.78
L40	S1°40'57"E	328.68	2132283.70	6691632.13
L41	N89°19'42"E	14.91	2132283.52	6691617.22
L42	S1°32'57"E	205.02	2132488.47	6691611.68
L43	S89°19'42"W	15.83	2132488.66	6691627.51
L44	S0°53'06"E	710.70	2133199.27	6691616.53
L45	S0°57'46"E	239.79	2133439.02	6691612.50
L46	S89°37'27"W	17.82	2133439.14	6691630.32
L47	S0°46'26"E	194.97	2133634.09	6691627.69
L48	S0°18'37"E	270.12	2133904.20	6691626.22
L49	S0°08'13"W	189.93	2134094.13	6691626.68
L50	N89°37'27"E	16.25	2134094.02	6691610.43
L51	S0°26'08"E	158.87	2134252.89	6691609.22
L52	S1°29'43"E	203.84	2134456.66	6691603.90
L53	S0°18'20"E	1467.02	2135923.66	6691596.08
L54	S9°35'58"E	131.24	2136053.06	6691574.19
L55	S0°10'26"E	510.56	2136563.62	6691572.64
L56	N89°49'34"E	40.84	2136563.49	6691531.80
L57	S0°35'21"E	1000.03	2137563.46	6691521.52
L58	S89°49'34"W	57.49	2137563.64	6691579.01
L59	S0°35'00"E	1045.21	2138608.79	6691568.37
L60	S88°29'26"W	9.68	2138609.05	6691578.04
L61	S0°47'59"E	288.67	2138897.69	6691574.01
L62	S1°26'29"E	560.40	2139457.91	6691559.91
L63	S0°27'34"E	1009.33	2140467.20	6691551.82
L64	N89°20'42"E	35.55	2140466.80	6691516.27

CONSTRUCTION LIMIT LINE TABLE				
LINE NO.	LINE/CHORD DIRECTION	LENGTH	START NORTHING	START EASTING
L65	S0°32'33"E	186.25	2140653.04	6691514.51
L66	S89°27'45"W	36.87	2140653.39	6691551.38
L67	S0°00'11"E	467.30	2141120.69	6691551.36
L68	S0°15'47"E	1056.04	2142176.72	6691546.51
L69	S0°40'08"E	231.25	2142407.95	6691543.81
L70	S2°40'20"E	278.77	2142686.42	6691530.81
L71	S0°25'31"E	737.49	2143423.89	6691525.34
L72	S0°30'38"E	432.94	2143856.81	6691521.48
L73	S0°44'37"E	441.63	2144298.40	6691515.75
L74	N89°35'07"E	35.75	2144298.14	6691480.00
L75	S0°32'33"E	295.00	2144593.13	6691477.20
L76	S89°35'07"W	33.29	2144593.37	6691510.49
L77	S0°53'22"E	938.68	2145531.93	6691495.92
L78	N89°18'23"E	15.00	2145531.75	6691480.92
L79	S0°36'34"W	284.85	2145816.58	6691483.95
L80	S6°29'48"W	49.11	2145865.37	6691489.51
L81	S1°13'34"E	307.63	2146172.93	6691482.93
L82	S89°04'27"W	15.03	2146173.17	6691497.96
L83	S0°54'15"E	578.73	2146751.83	6691488.82
L84	S0°52'32"W	250.65	2147002.45	6691492.65
L85	S0°31'08"W	370.94	2147373.37	6691496.01
L86	S89°54'25"E	212.78	2147373.71	6691283.24
L87	S1°15'07"E	328.17	2147701.81	6691276.07
L88	N88°10'18"W	276.48	2147692.98	6691552.41
L89	N44°53'40"W	58.72	2147651.39	6691593.85
L90	N0°54'14"W	540.88	2147110.57	6691602.38
L91	N0°51'59"W	683.29	2146427.36	6691612.72
L92	N0°32'17"W	388.11	2146039.27	6691616.36
L93	N0°42'58"W	886.54	2145152.80	6691627.44
L94	N0°40'16"W	697.71	2144455.14	6691635.61
L95	N0°46'23"W	801.03	2143654.18	6691646.42
L96	N0°09'57"E	436.62	2143217.56	6691645.16

CONSTRUCTION LIMIT LINE TABLE				
LINE NO.	LINE/CHORD DIRECTION	LENGTH	START NORTHING	START EASTING
L97	N0°39'51"W	457.20	2142760.39	6691650.46
L98	N0°31'54"E	456.04	2142304.38	6691646.22
L99	S89°41'04"W	36.95	2142304.58	6691683.18
L100	N3°21'36"W	137.40	2142167.42	6691691.23
L101	N1°01'39"E	195.86	2141971.59	6691687.72
L102	N0°06'59"E	327.04	2141644.55	6691687.05
L103	N1°13'32"W	253.15	2141391.46	6691692.47
L104	N0°58'58"W	209.13	2141182.36	6691696.05
L105	N0°26'23"W	287.87	2140894.50	6691698.26
L106	N0°43'16"W	190.67	2140703.85	6691700.66
L107	N1°56'00"W	222.25	2140481.72	6691708.16
L108	N0°38'49"W	227.03	2140254.71	6691710.72
L109	N89°32'57"E	58.51	2140254.25	6691652.22
L110	N0°41'58"W	235.59	2140018.67	6691655.09
L111	N0°29'06"W	364.71	2139653.98	6691658.18
L112	N0°40'53"W	596.69	2139057.33	6691665.28
L113	N0°33'48"W	702.74	2138354.62	6691672.19
L114	N0°33'41"W	436.65	2137917.99	6691676.47
L115	N0°09'39"W	463.42	2137454.58	6691677.77
L116	N0°32'23"W	1800.04	2135654.62	6691694.72
L117	N89°39'16"E	25.47	2135654.47	6691669.25
L118	N0°20'44"W	1480.36	2134174.13	6691678.18
L119	S89°05'34"W	93.22	2134175.61	6691771.39
L120	N0°25'27"W	592.36	2133583.27	6691775.77
L121	N0°35'44"W	1273.84	2132309.49	6691789.01
L122	N1°48'08"E	163.67	2132145.90	6691783.86
L123	N0°13'41"W	353.93	2131791.97	6691785.27
L124	N10°05'25"W	192.81	2131602.15	6691819.05
L125	N8°29'48"W	186.51	2131417.69	6691846.61
L126	N10°03'54"W	235.98	2131185.34	6691887.85
L127	N9°15'39"W	112.26	2131074.54	6691905.92
L128	N80°21'38"E	55.94	2131065.17	6691850.57

CONSTRUCTION LIMIT LINE TABLE				
LINE NO.	LINE/CHORD DIRECTION	LENGTH	START NORTHING	START EASTING
L129	N10°13'52"W	291.54	2130778.27	6691902.56
L130	N5°17'39"W	103.92	2130674.80	6691912.14
L131	N3°47'27"E	307.18	2130368.29	6691891.83



SCALE: 1" = 200'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
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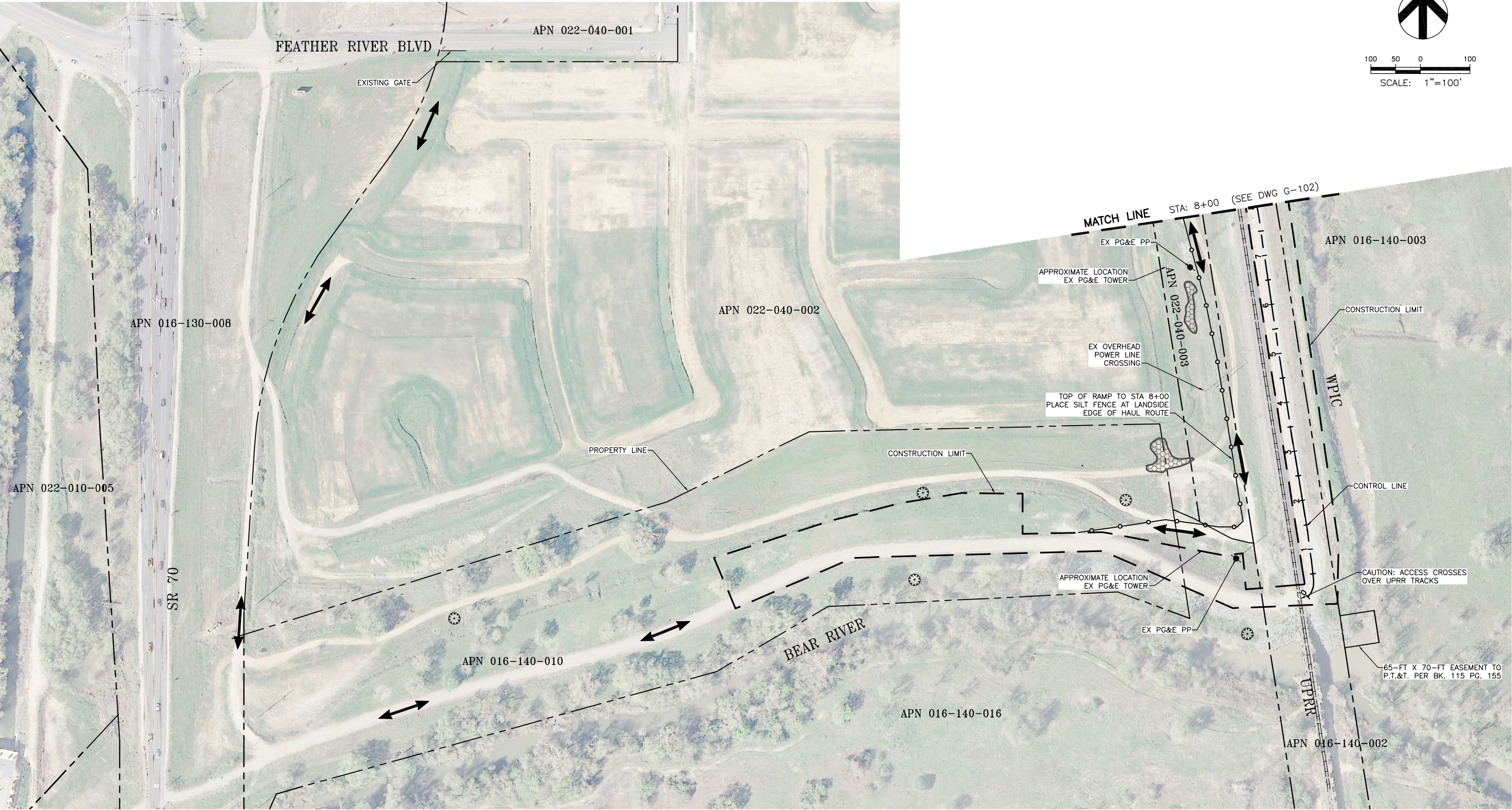
Three Rivers Levee Improvement Authority

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CONSTRUCTION LIMIT PLAN AND TABLES

FILENAME	G-010.dwg	SHEET
SCALE	AS SHOWN	G-010



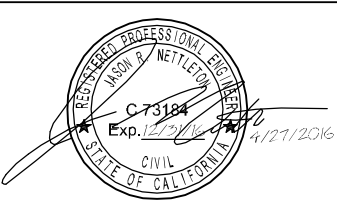


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

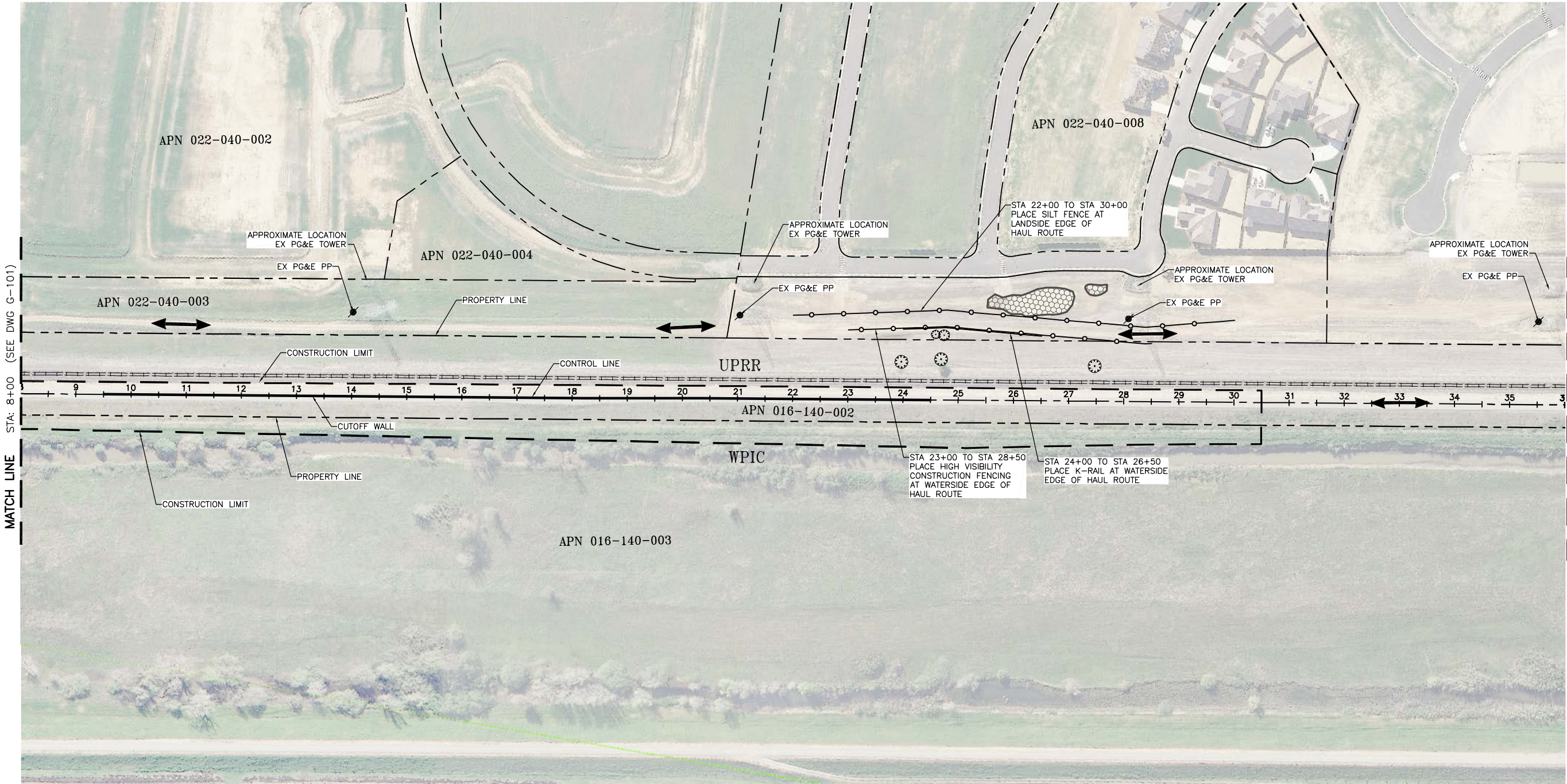
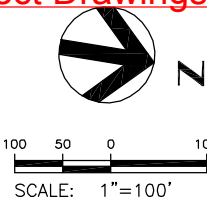
AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 0+00 TO 8+00

FILENAME	G-101.dwg
SCALE	AS SHOWN

SHEET
G-101



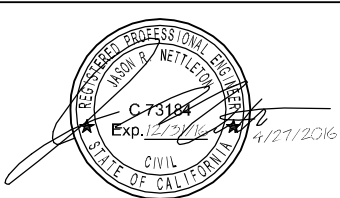


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

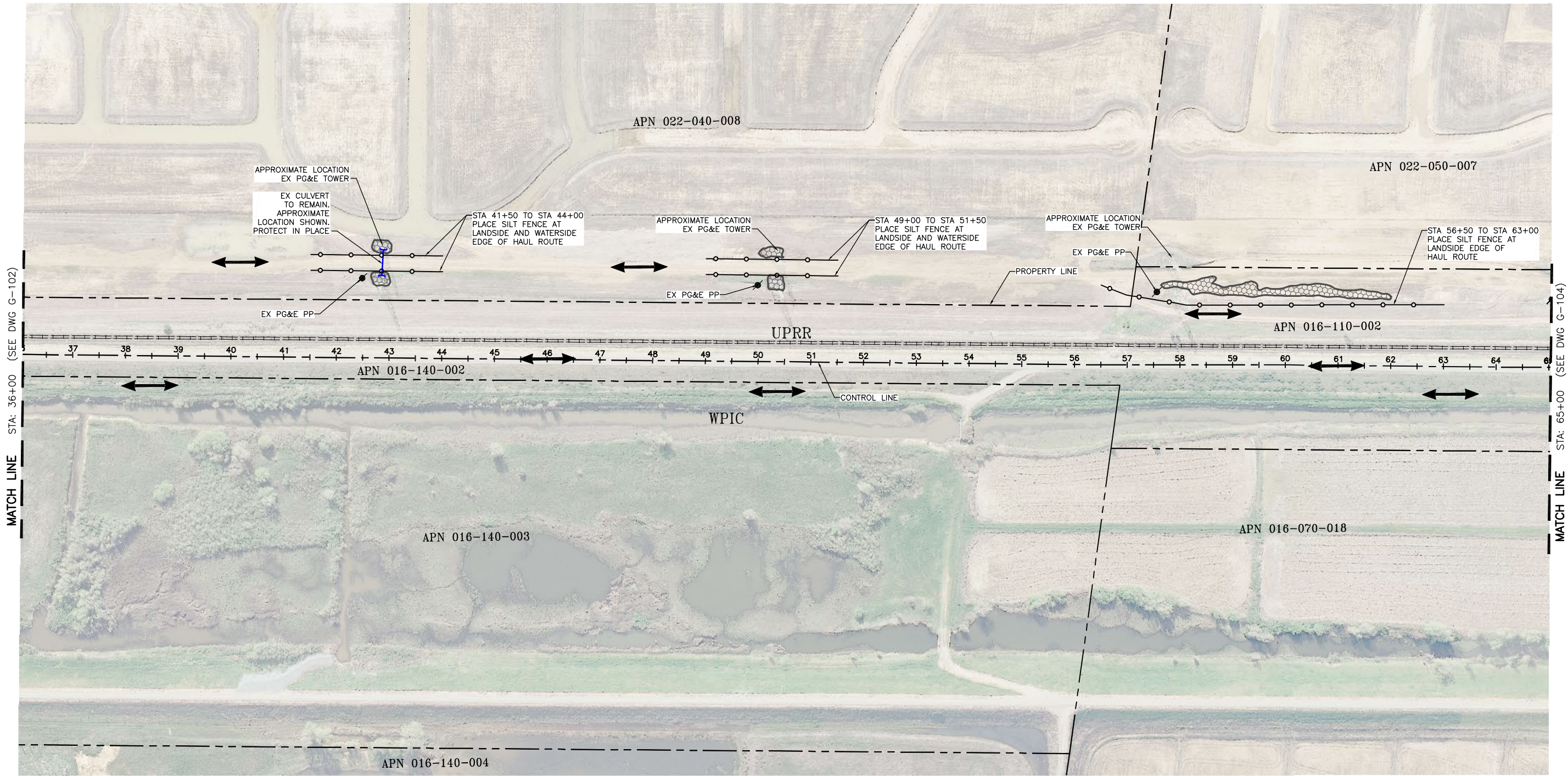
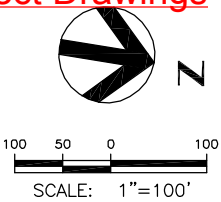


Three Rivers Levee Improvement Authority

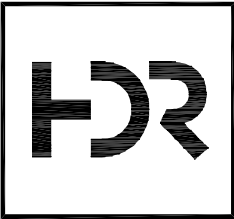
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN		
STA 8+00 TO 36+00		
FILENAME	G-102.dwg	SHEET G-102
SCALE	AS SHOWN	



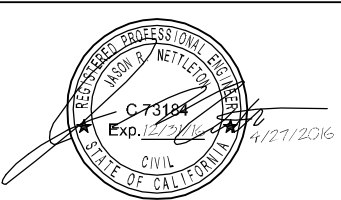


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

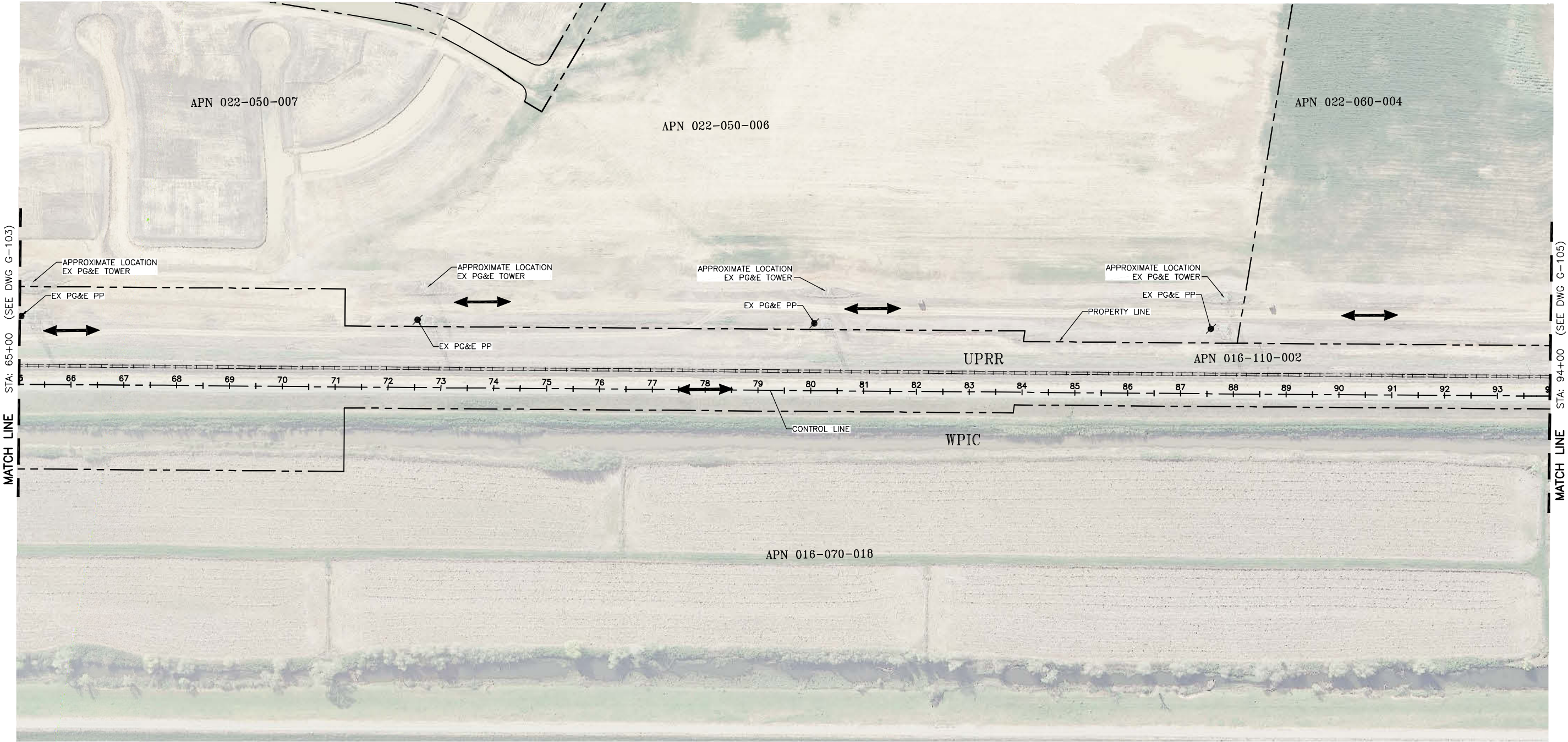
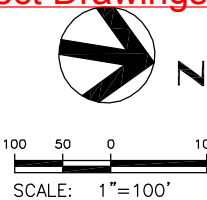


Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN		
STA 36+00 TO 65+00		
FILENAME	G-103.dwg	SHEET G-103
SCALE	AS SHOWN	



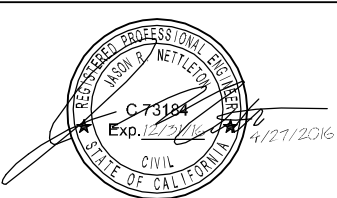


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

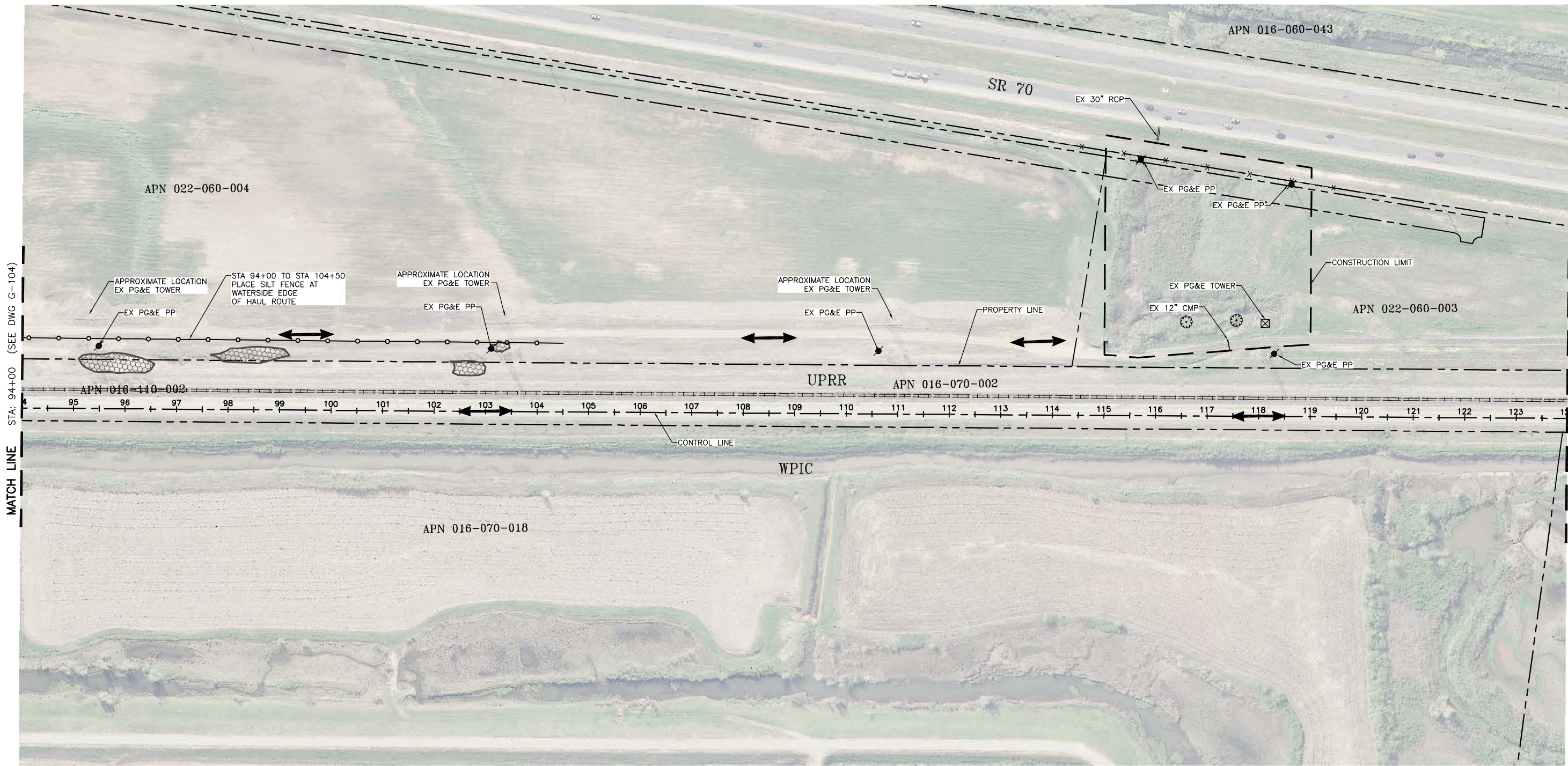
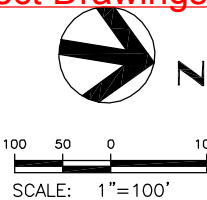
AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 65+00 TO 94+00

FILENAME	G-104.dwg
SCALE	AS SHOWN

SHEET
G-104





FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

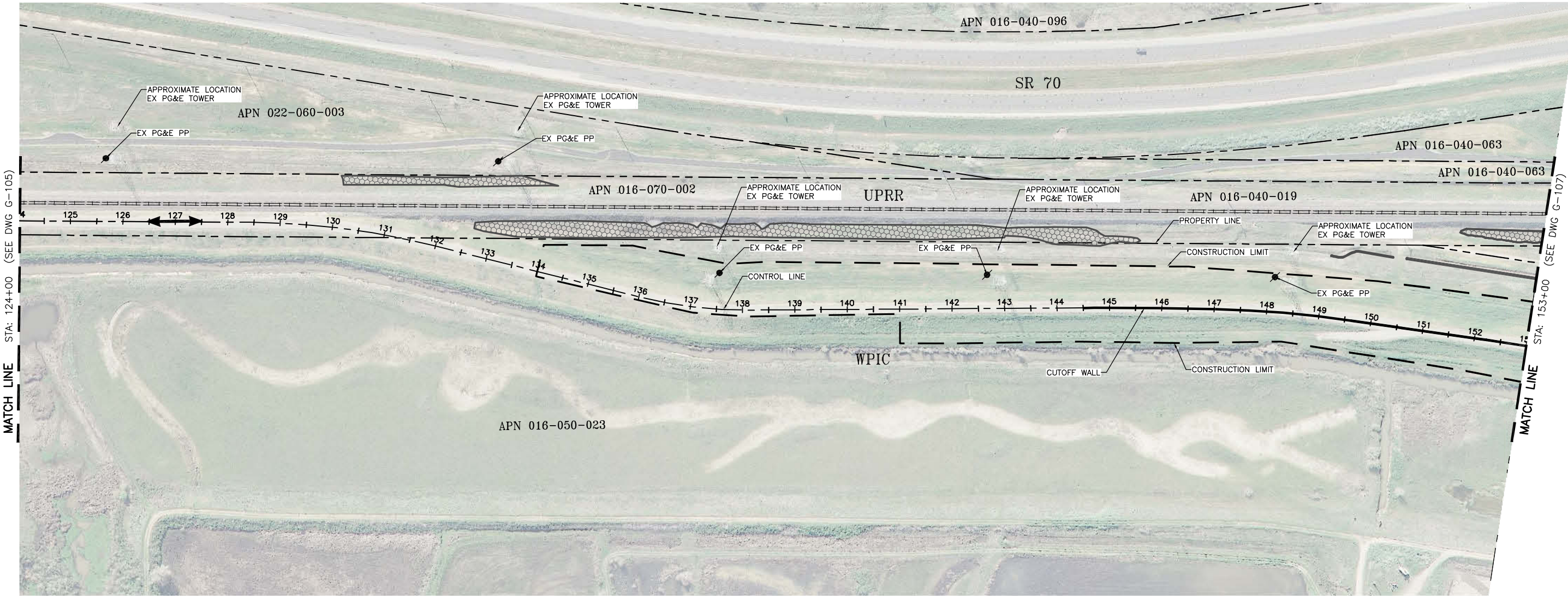
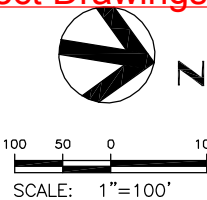
AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 94+00 TO 124+00

FILENAME	G-105.dwg
SCALE	AS SHOWN

SHEET
G-105



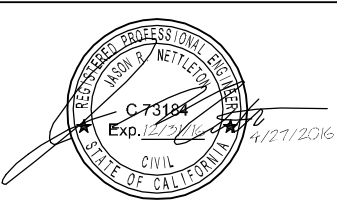


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

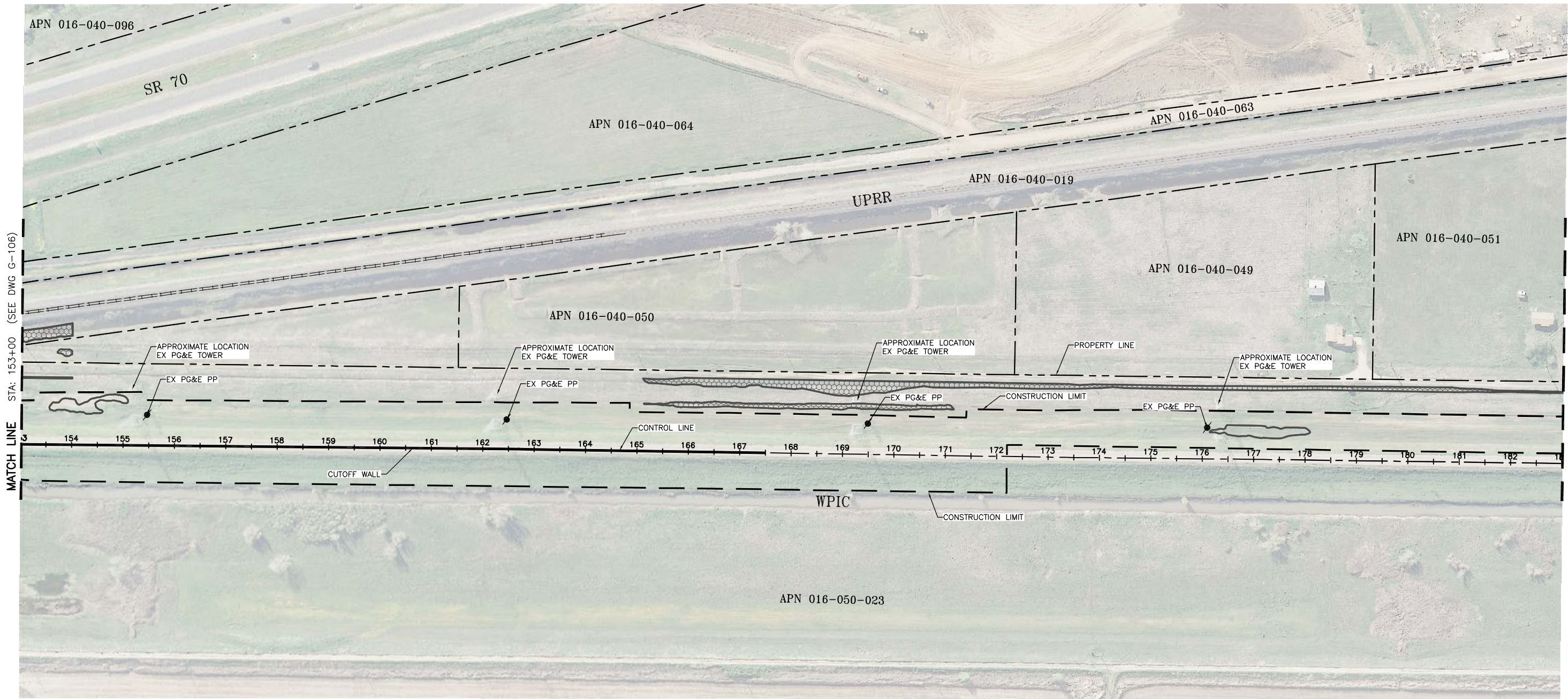
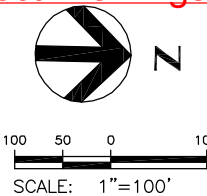
AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 124+00 TO 153+00

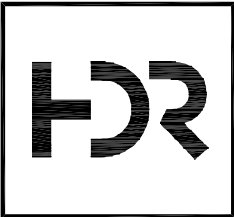
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SCALE	AS SHOWN

SHEET
G-106



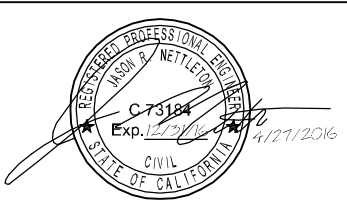


FOR BID



ISSUE	DATE	DESCRIPTION

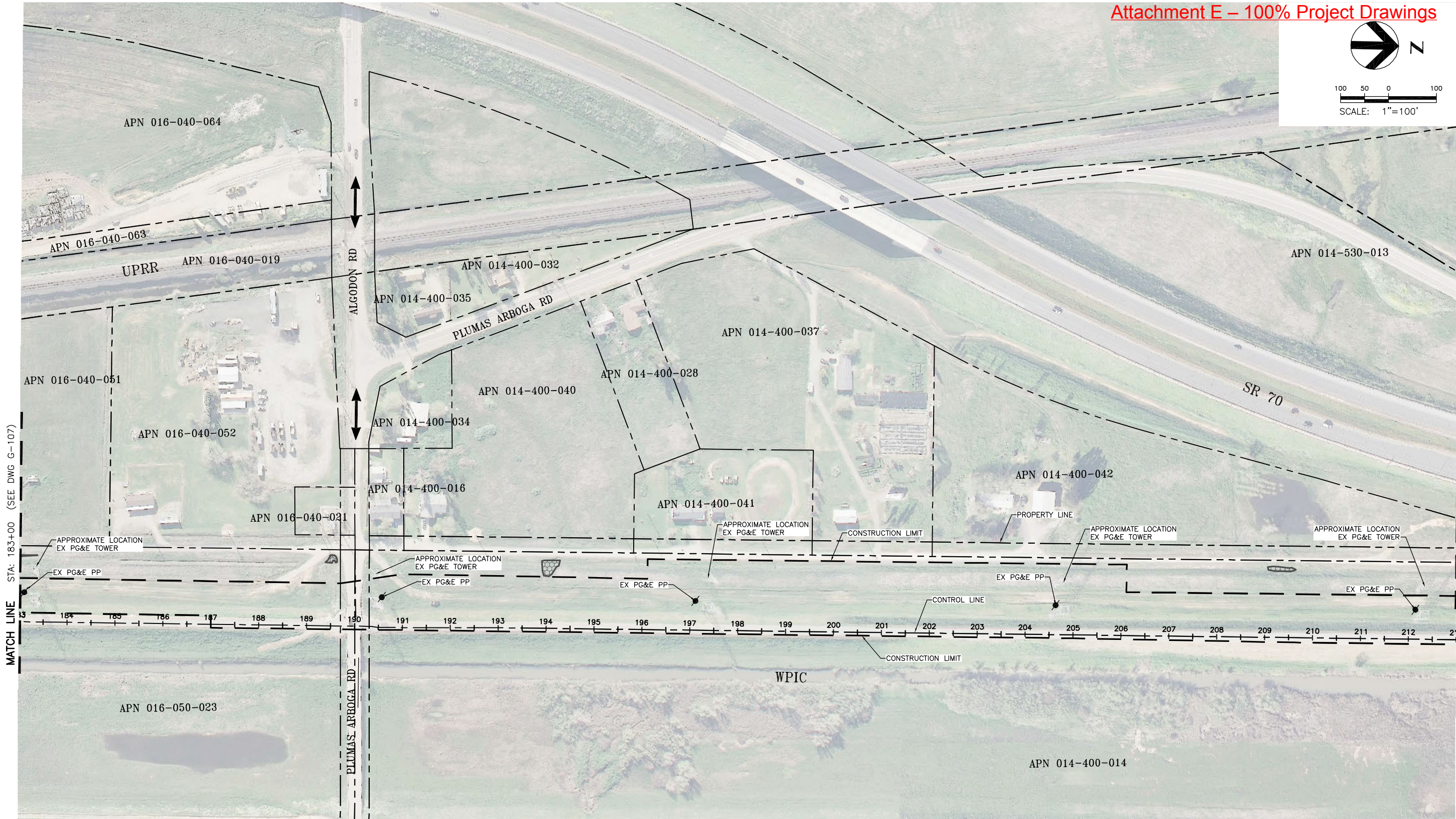
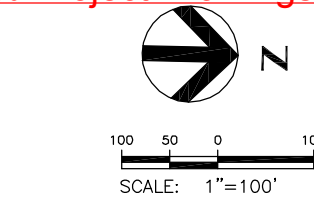
PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority  
  
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN		
STA 153+00 TO 183+00		
FILENAME	G-107.dwg	SHEET G-107
SCALE	AS SHOWN	





FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

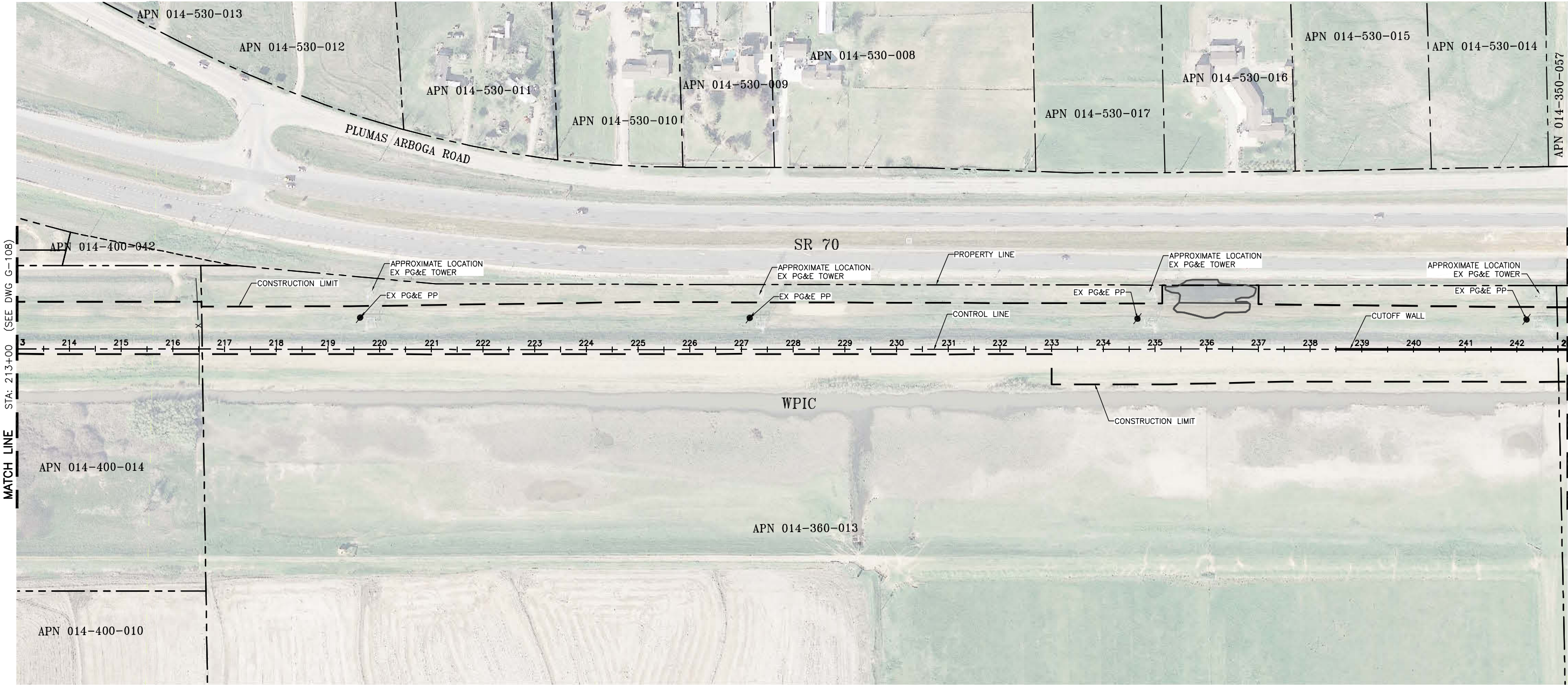
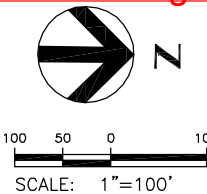
AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 183+00 TO 213+00

FILENAME	G-108.dwg
SCALE	AS SHOWN

SHEET
G-108



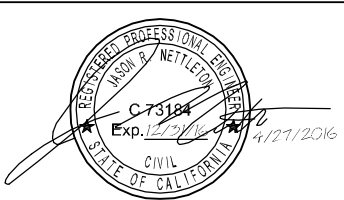


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

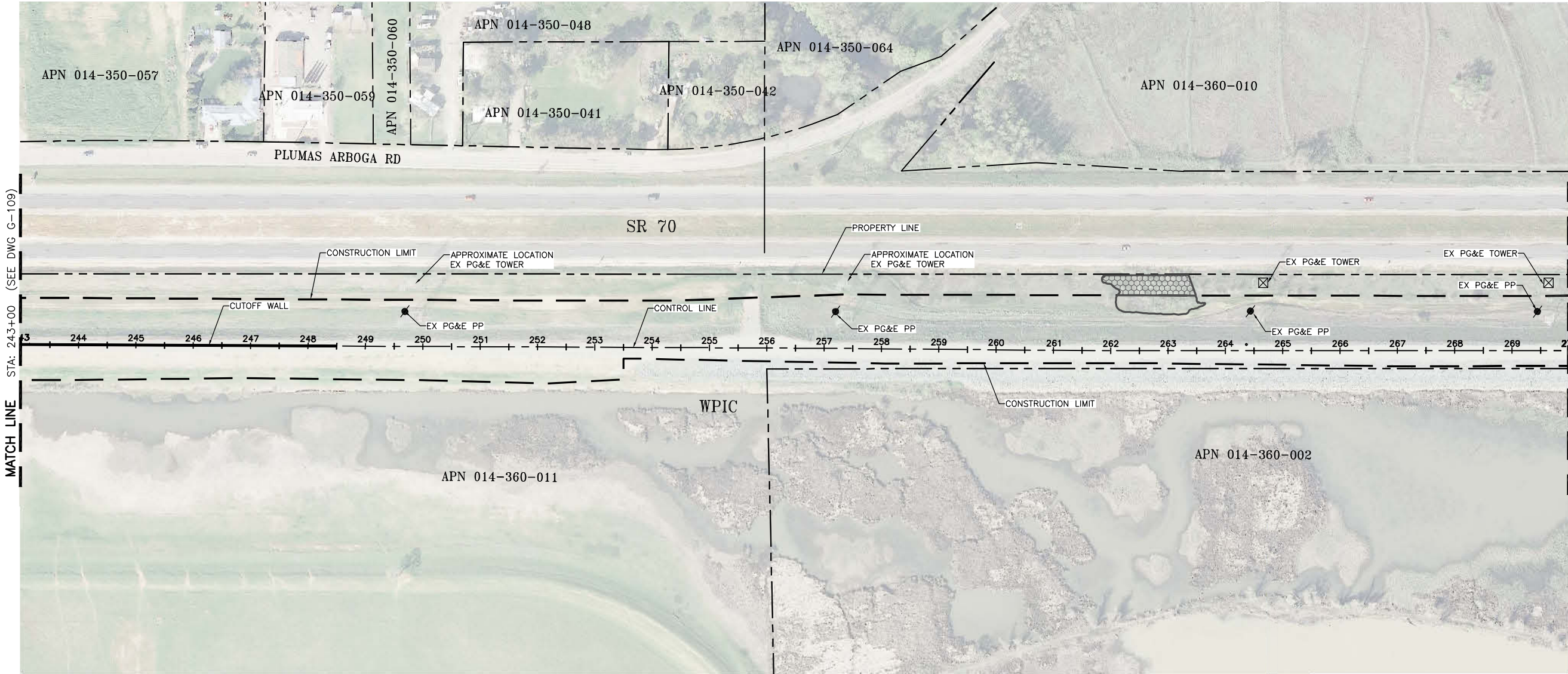
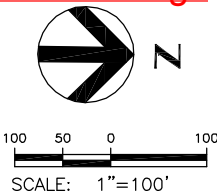


Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN		
STA 213+00 TO 243+00		
FILENAME	G-109.dwg	SHEET G-109
SCALE	AS SHOWN	



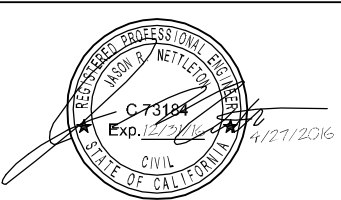


FOR BID



ISSUE	DATE	DESCRIPTION

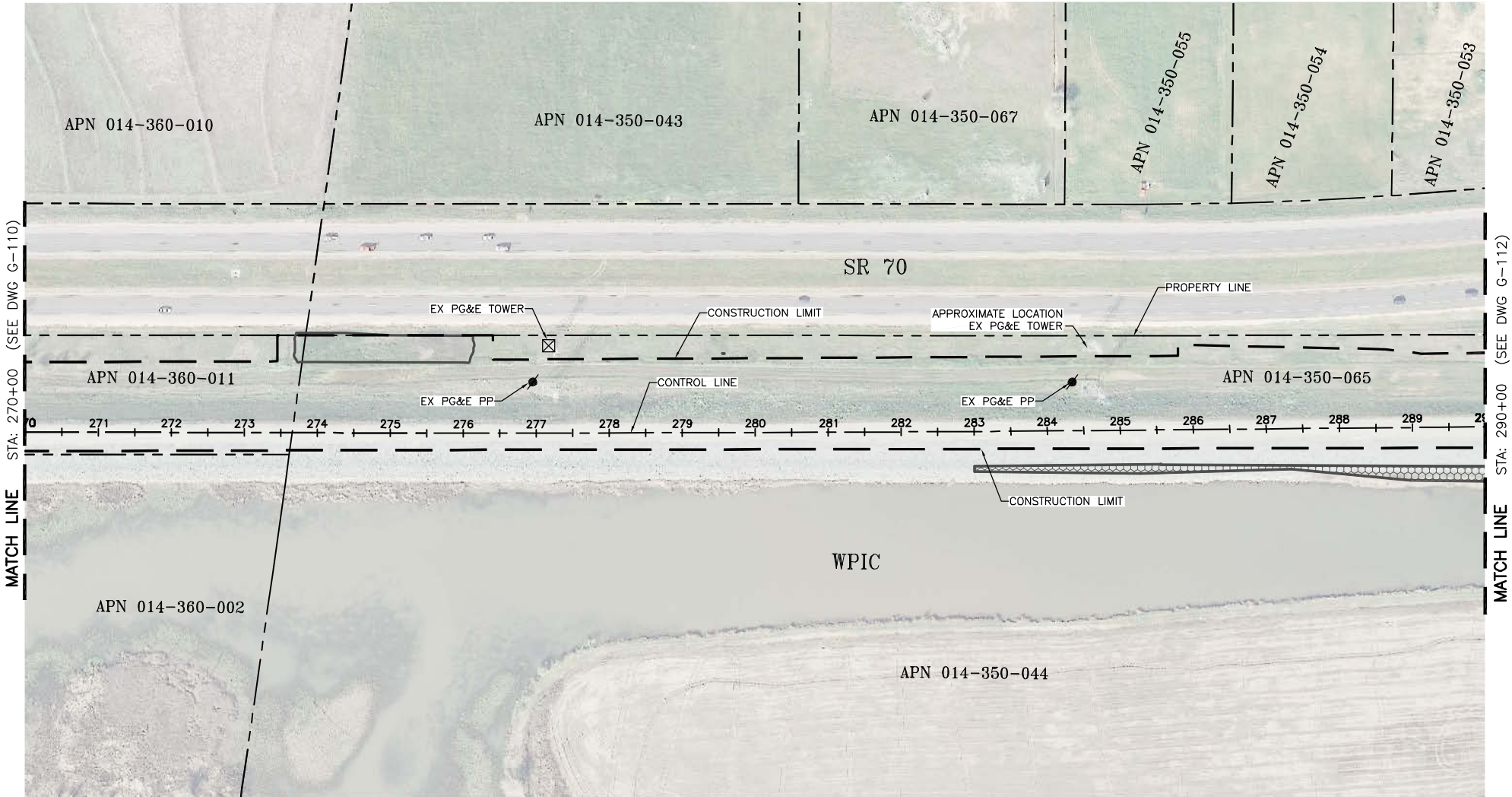
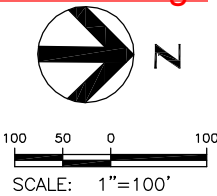
PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN		
STA 243+00 TO 270+00		
FILENAME	G-110.dwg	SHEET G-110
SCALE	AS SHOWN	



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

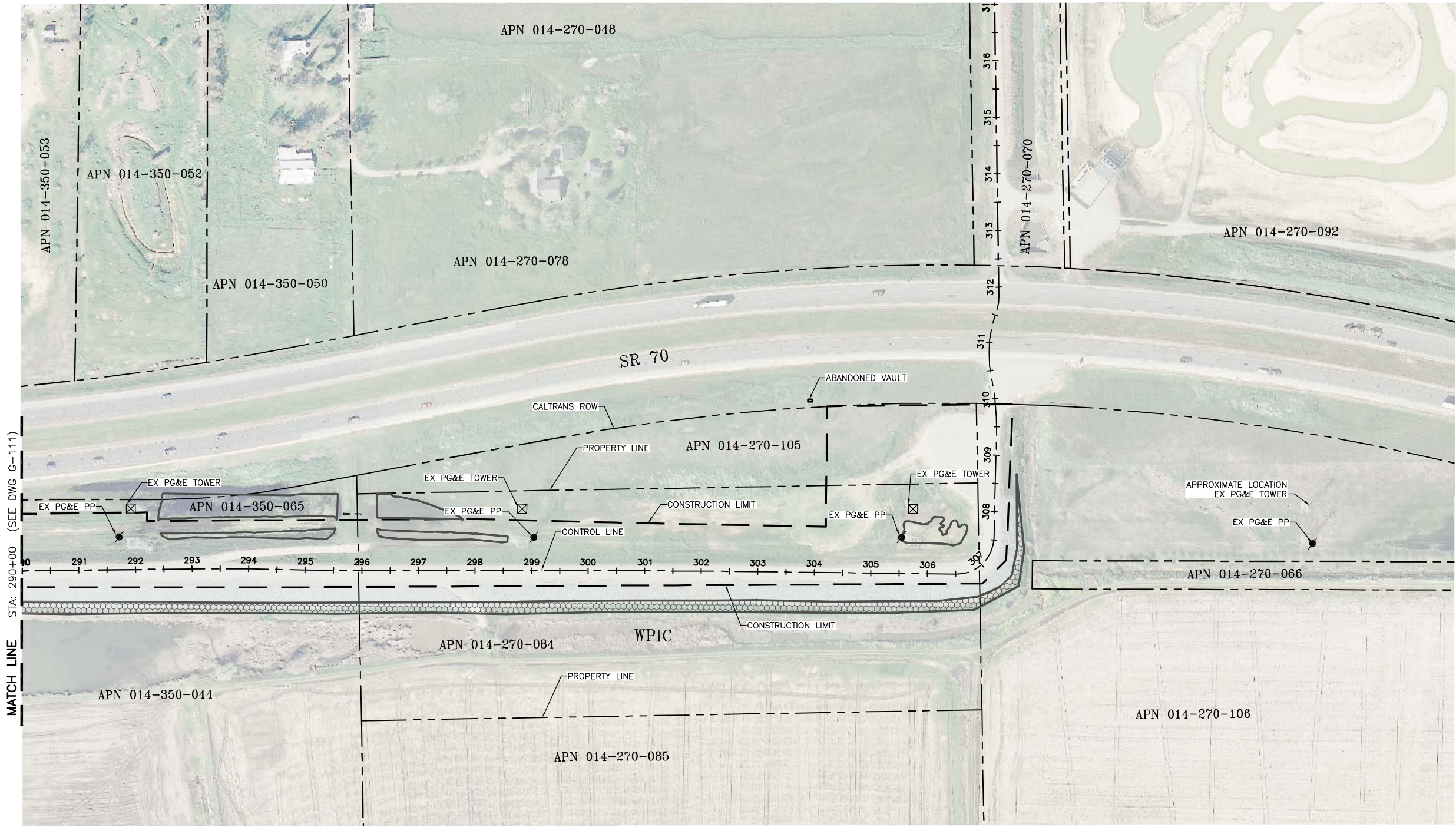
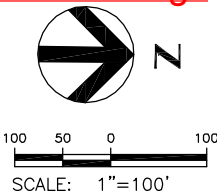
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 270+00 TO 290+00

FILENAME	G-111.dwg	SHEET
SCALE	AS SHOWN	G-111





FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

AERIAL PHOTO, HAUL ROUTE AND FENCING PLAN

STA 290+00 TO 310+00

FILENAME	G-112.dwg
SCALE	AS SHOWN

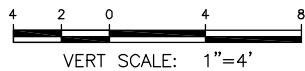
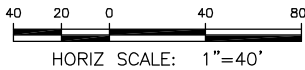
SHEET
G-112



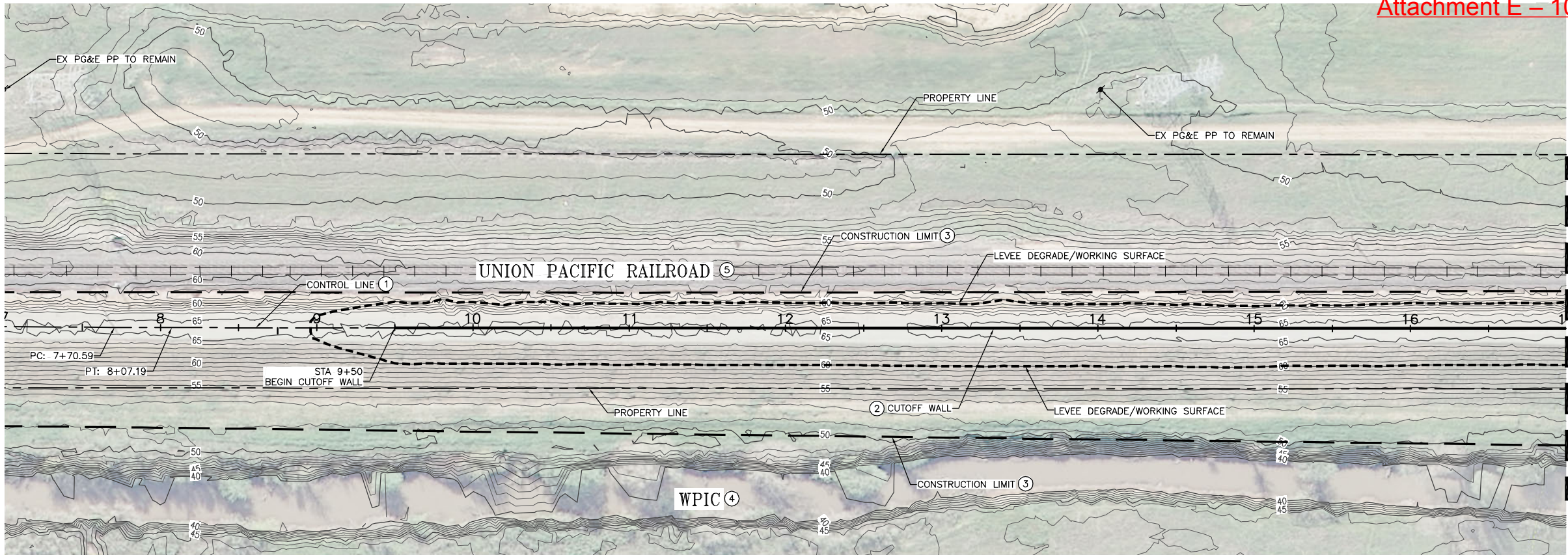


CONSTRUCTION NOTES:

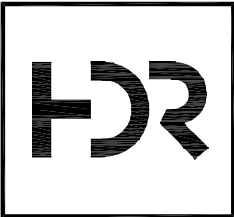
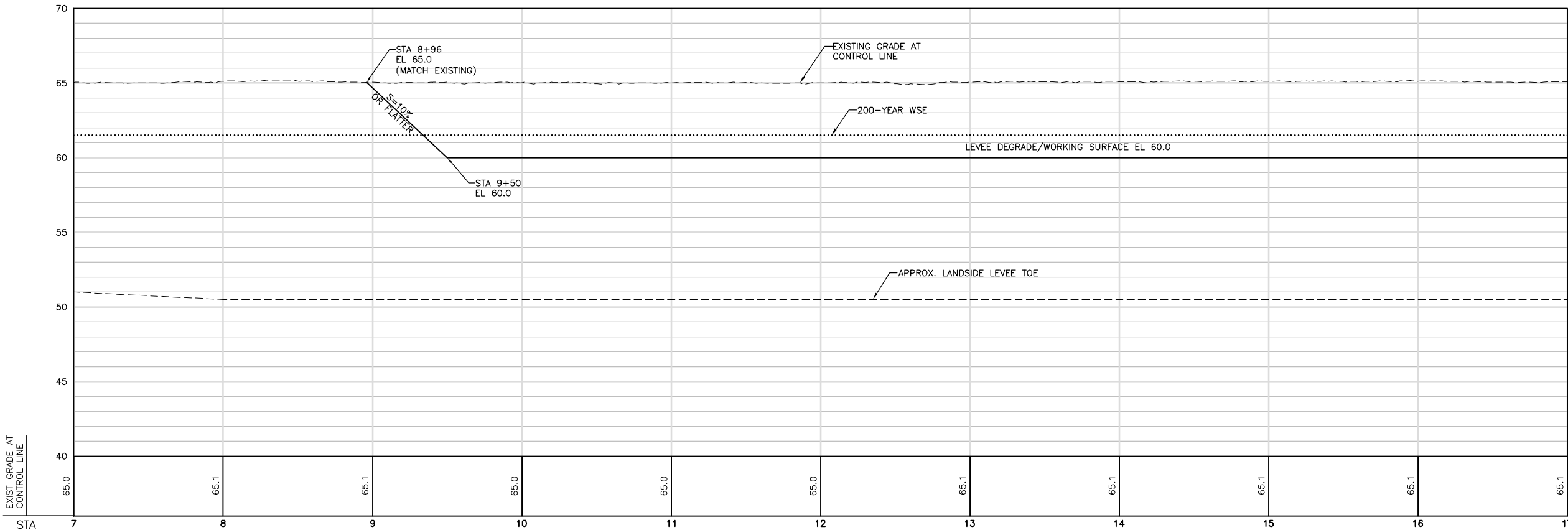
- ① SEE SHEET G-008 FOR CONTROL LINE TABLES.
- ② SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- ③ CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
- SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.
- REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES. K-RAIL SHALL BE PROVIDED AT THE CONSTRUCTION LIMIT ALONG THE UPRR EMBANKMENT AS SHOWN ON SHEET C-301. SIDE CASTING OF LEVEE DEGRADE MATERIAL AT THE LANDSIDE OF THE LEVEE ALONG THE UPRR EMBANKMENT IS NOT ALLOWED. REFER TO THE SPECIAL PROVISIONS.
- ④ WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- ⑤ UPRR TO REMAIN. RAILROAD WILL BE IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO PROVIDE K-RAIL AT CONSTRUCTION LIMIT ALONG UPRR TRACK. CONTRACTOR SHALL NOT WORK ON OR ACCESS RAILROAD EMBANKMENT OUTSIDE OF CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT SPOIL OR STOCKPILE MATERIAL ON K-RAIL.



FOR BID

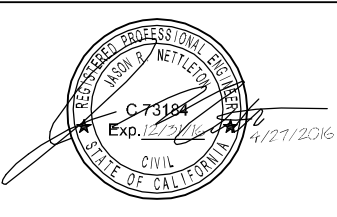


MATCH LINE (SEE DWG C-102) STA: 17+00



ISSUE	DATE	DESCRIPTION

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DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

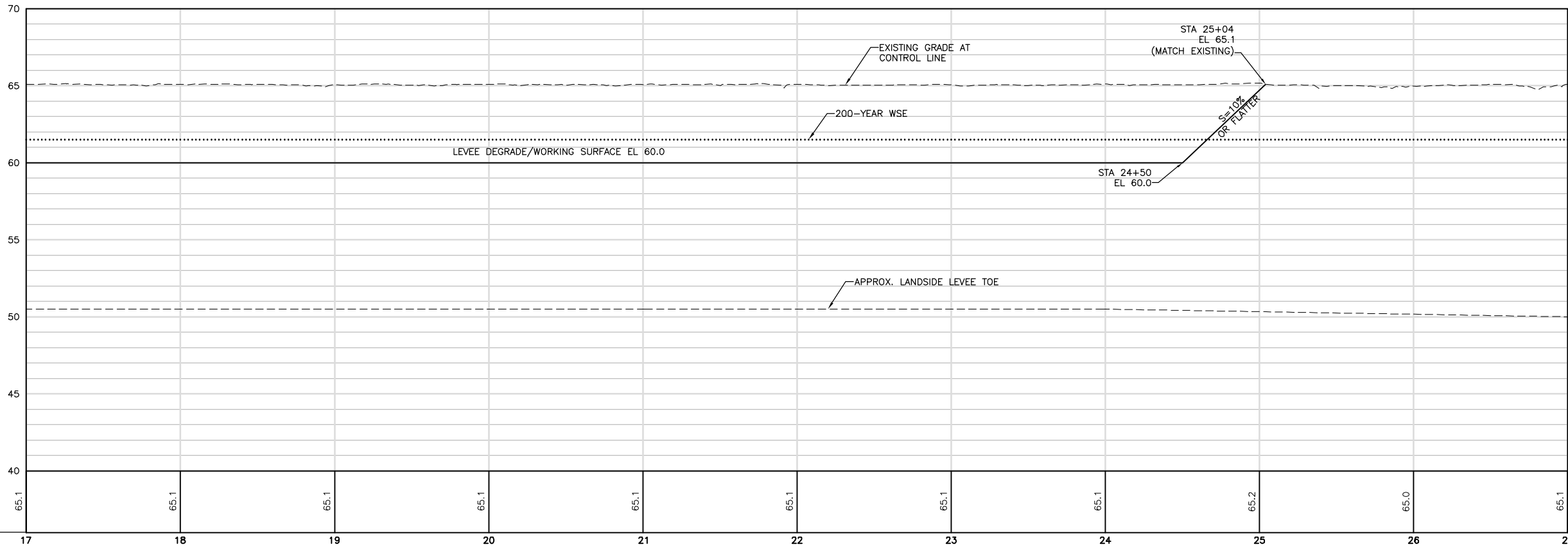
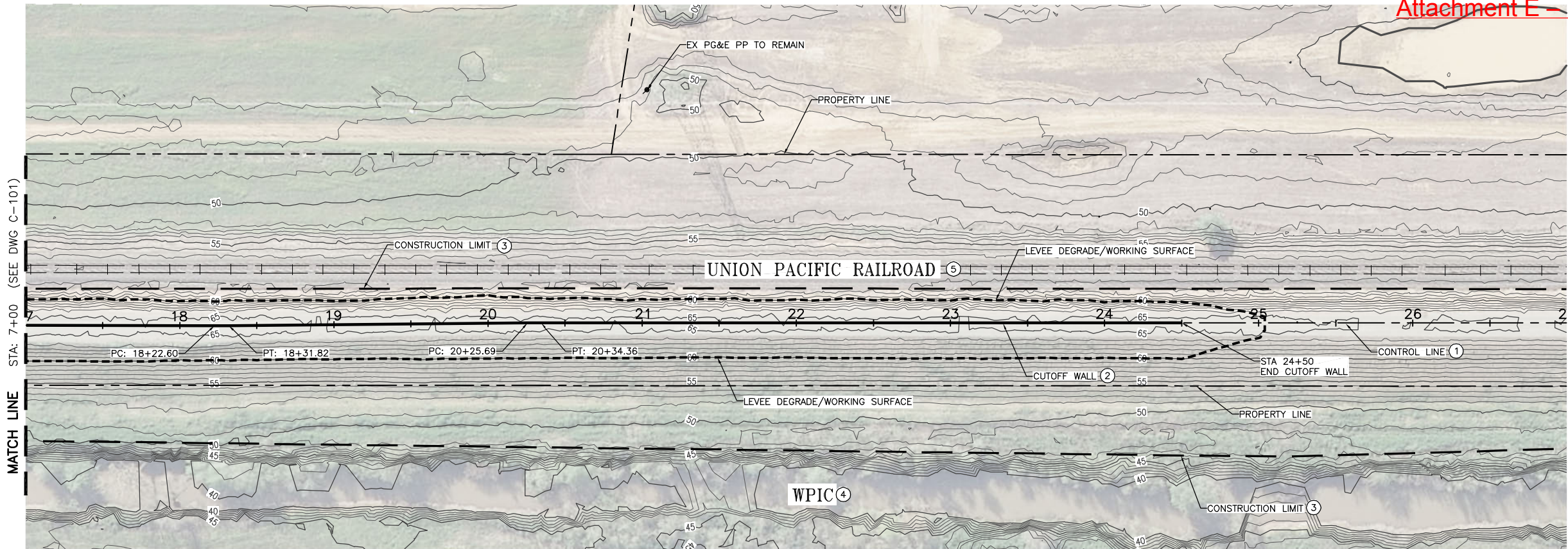


Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

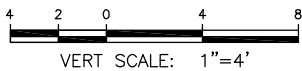
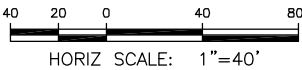
PLAN AND PROFILE STA 7+00 TO 17+00		
FILENAME	C-101.dwg	SHEET
SCALE	AS SHOWN	C-101





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO THE PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES. K-RAIL SHALL BE PROVIDED AT THE CONSTRUCTION LIMIT ALONG THE UPRR EMBANKMENT AS SHOWN ON SHEET C-301. SIDE CASTING OF LEVEE DEGRADE MATERIAL AT THE LANDSIDE OF THE LEVEE ALONG THE UPRR EMBANKMENT IS NOT ALLOWED. REFER TO THE SPECIAL PROVISIONS.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- UPRR TO REMAIN. RAILROAD WILL BE IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO PROVIDE K-RAIL AT CONSTRUCTION LIMIT ALONG UPRR TRACK. CONTRACTOR SHALL NOT WORK ON OR ACCESS RAILROAD EMBANKMENT OUTSIDE OF CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT SPOIL OR STOCKPILE MATERIAL ON K-RAIL.



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 17+00 TO 27+00

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SCALE	AS SHOWN

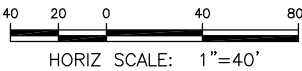
SHEET  
C-102



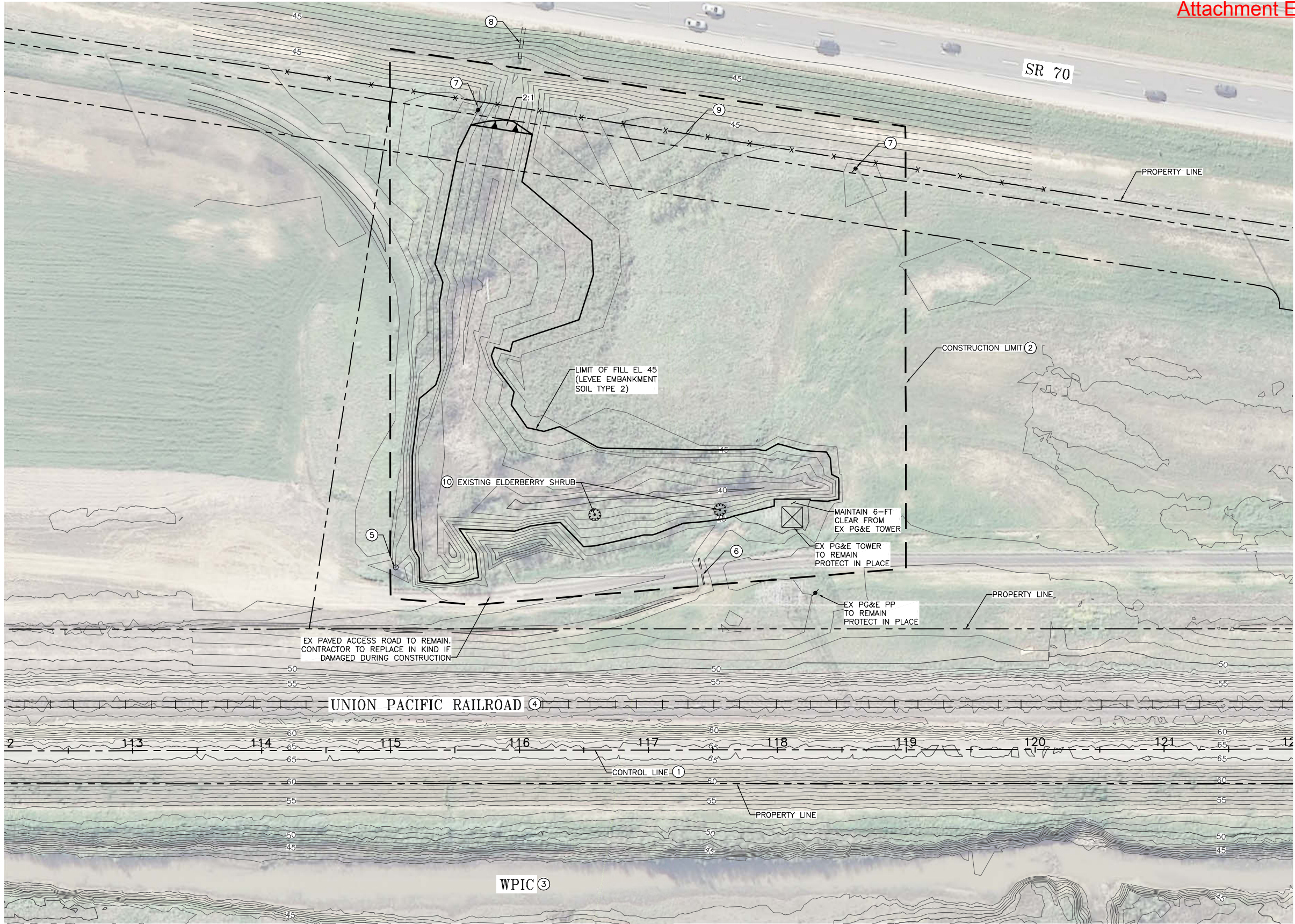


CONSTRUCTION NOTES:

- ① SEE SHEETS G-008 FOR CONTROL LINE TABLES.
- ② CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
- SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.
- REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- ③ WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- ④ UPRR TO REMAIN. RAILROAD WILL BE IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO PROVIDE FENCING CONSISTENT WITH THESE PLANS CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT WORK ON OR ACCESS RAILROAD EMBANKMENT OUTSIDE OF CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT SPOIL OR STOCKPILE MATERIAL ON K-RAIL.
- ⑤ EXISTING 30" STAND PIPE TO REMAIN. CONTRACTOR TO REPLACE IN KIND IF DAMAGED DURING CONSTRUCTION.
- ⑥ EXISTING 12" CMP. CONTRACTOR TO PROTECT IN PLACE AND REPLACE IN KIND IF DAMAGED DURING CONSTRUCTION.
- ⑦ EXISTING POWER POLE TO REMAIN. PROTECT IN PLACE.
- ⑧ EXISTING 30" PIPE. DO NOT DISTURB. PROTECT IN PLACE.
- ⑨ EXISTING FENCE TO REMAIN.
- ⑩ EXISTING ELDERBERRY SHRUB. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



FOR BID



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PROJECT NUMBER	242159
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Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

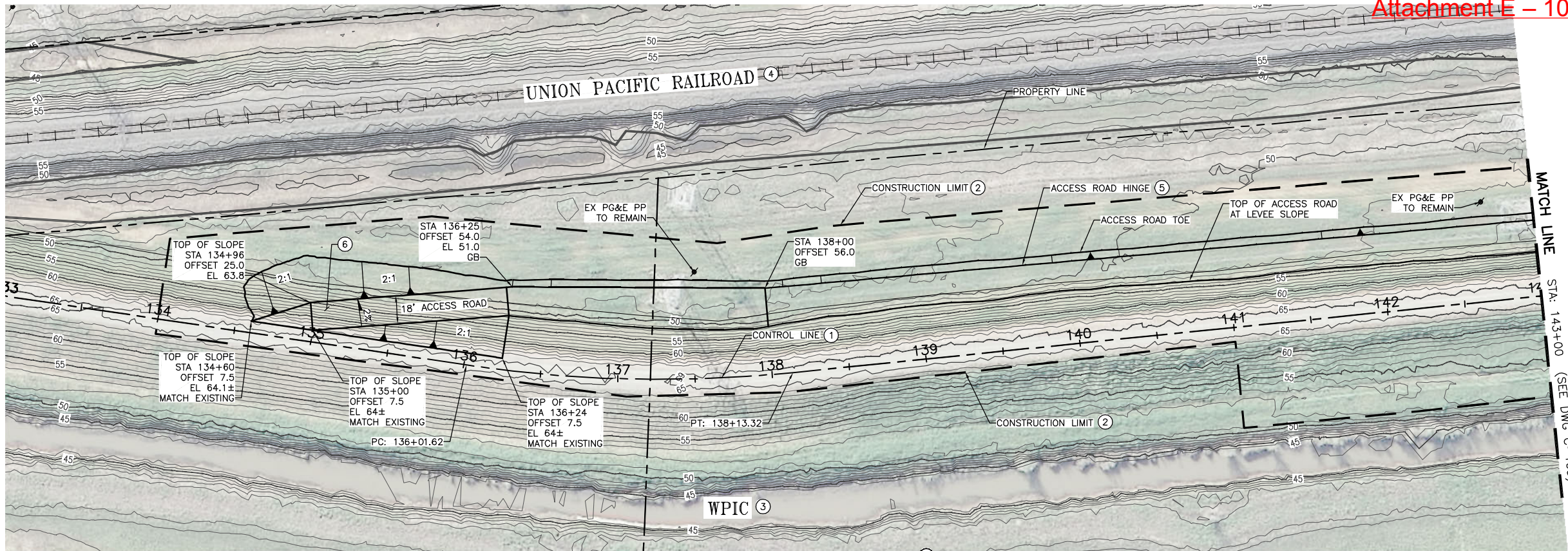
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STA 112+00 TO 122+00

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SCALE	AS SHOWN

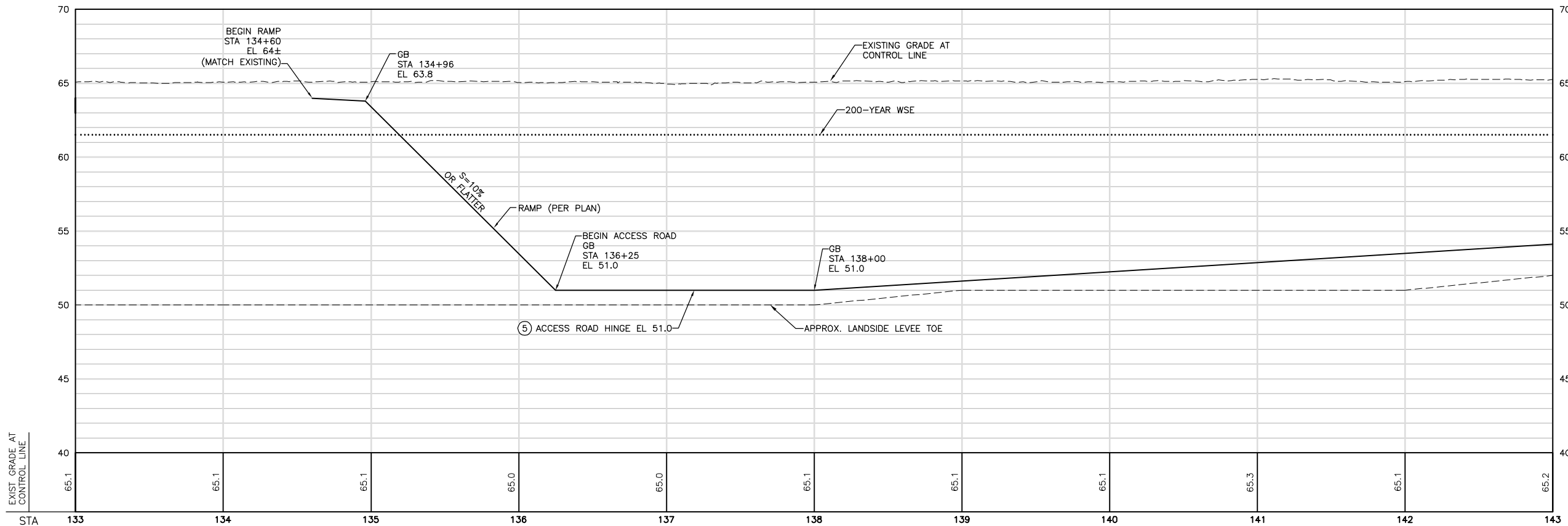
SHEET	C-103
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CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- UPRR TO REMAIN. RAILROAD WILL BE IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO PROVIDE FENCING AT CONSTRUCTION LIMIT CONSISTENT WITH THESE PLANS. CONTRACTOR SHALL NOT WORK ON OR ACCESS RAILROAD EMBANKMENT OUTSIDE OF CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT SPOIL OR STOCKPILE MATERIAL ON K-RAIL.
- SEE TYPICAL DETAIL ON SHEET C-302.
- CONSTRUCT ACCESS RAMP AS SHOWN. RAMP SHALL BE 18'-FT WIDE WITH 10% MAXIMUM LONGITUDINAL SLOPE AND 2% CROSS SLOPE. RAMP SURFACING SHALL BE PER DETAIL ON SHEET C-305. AGGREGATE SURFACING SHALL EXTEND FROM RAMP TOE TO MATCH GRADES AT LEVEE CROWN. CONTRACTOR TO VERIFY LEVEE CROWN GRADE'S PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



HORIZ SCALE: 1"=40'

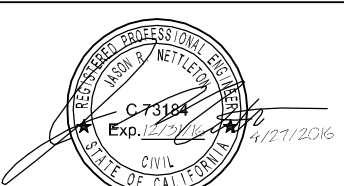
VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



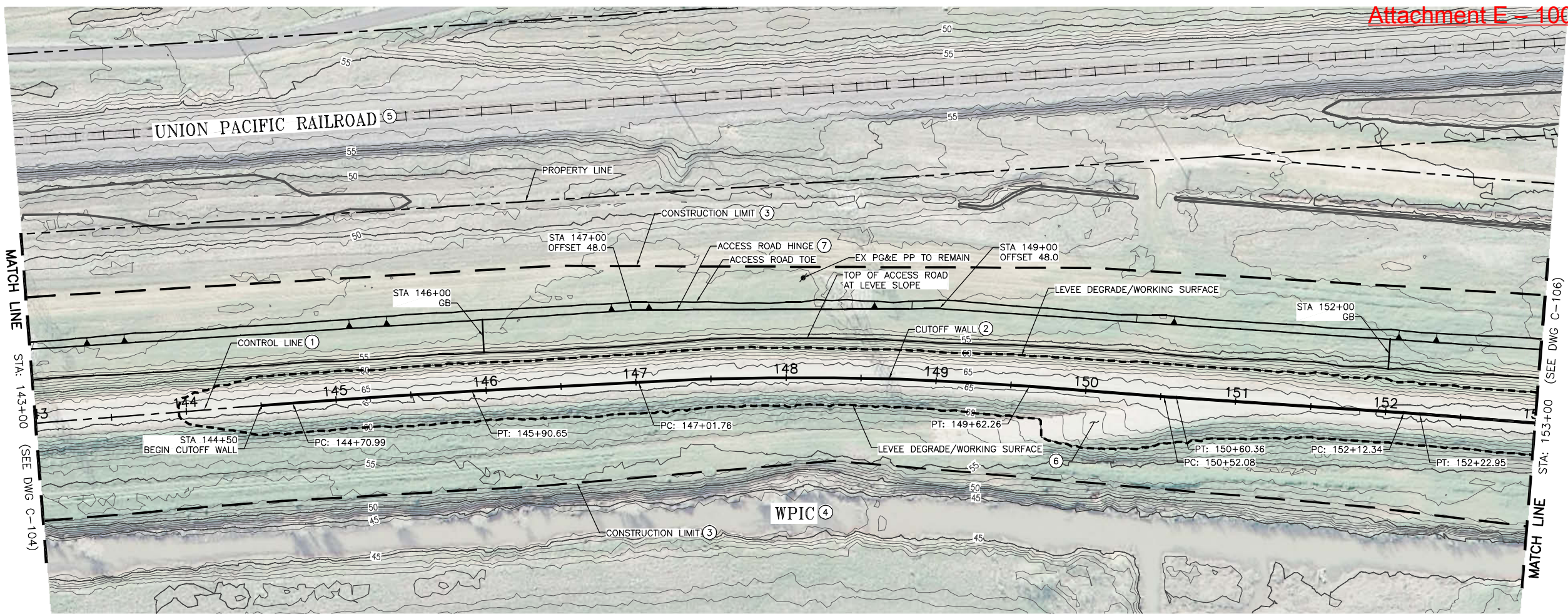
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 133+00 TO 143+00

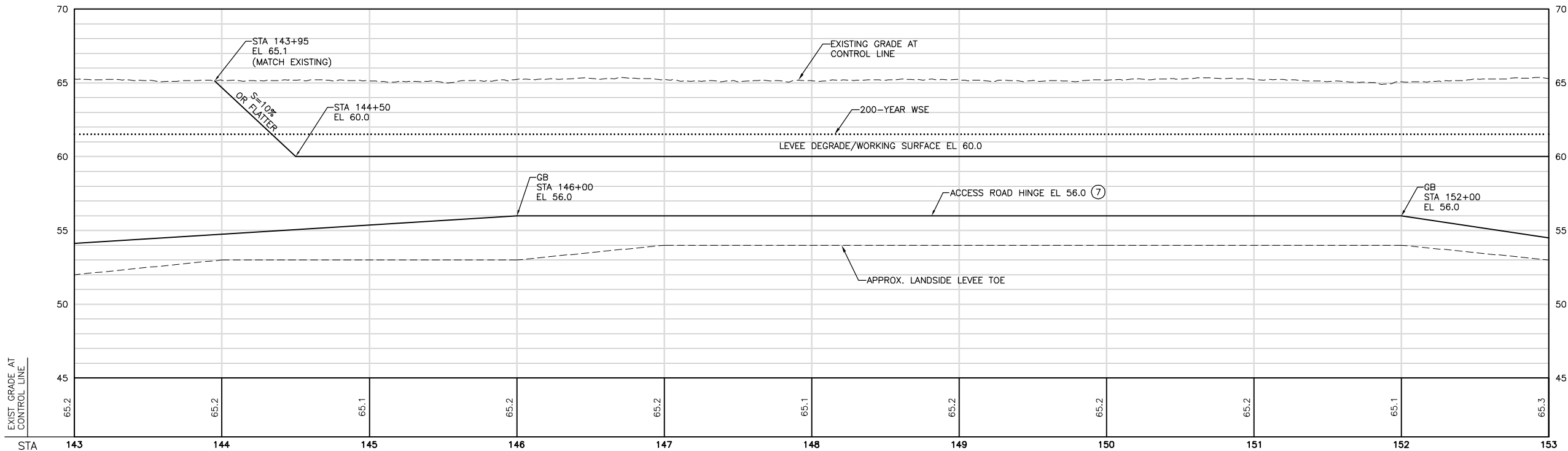
FILENAME	C-104.dwg	SHEET
SCALE	AS SHOWN	C-104





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO THE PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- UPRR TO REMAIN. RAILROAD WILL BE IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO PROVIDE FENCING AT CONSTRUCTION LIMIT CONSISTENT WITH THESE PLANS. CONTRACTOR SHALL NOT WORK ON OR ACCESS RAILROAD EMBANKMENT OUTSIDE OF CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT SPOIL OR STOCKPILE MATERIAL ON K-RAIL.
- REPLACE EXISTING RAMP IN KIND AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.



HORIZ SCALE: 1"=40'

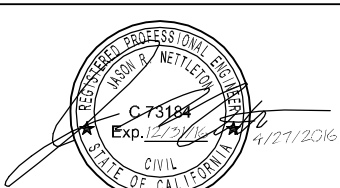
VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 143+00 TO 153+00

FILENAME C-105.dwg  
SCALE AS SHOWN

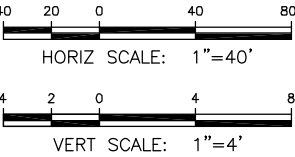
SHEET  
C-105





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO THE PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- STA 153+50 TO STA 155+15. GRADE TO DRAIN AS SHOWN.
- SEE DETAIL 2 ON SHEET C-305.



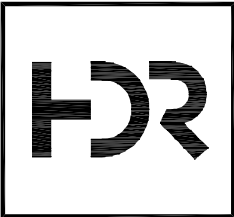
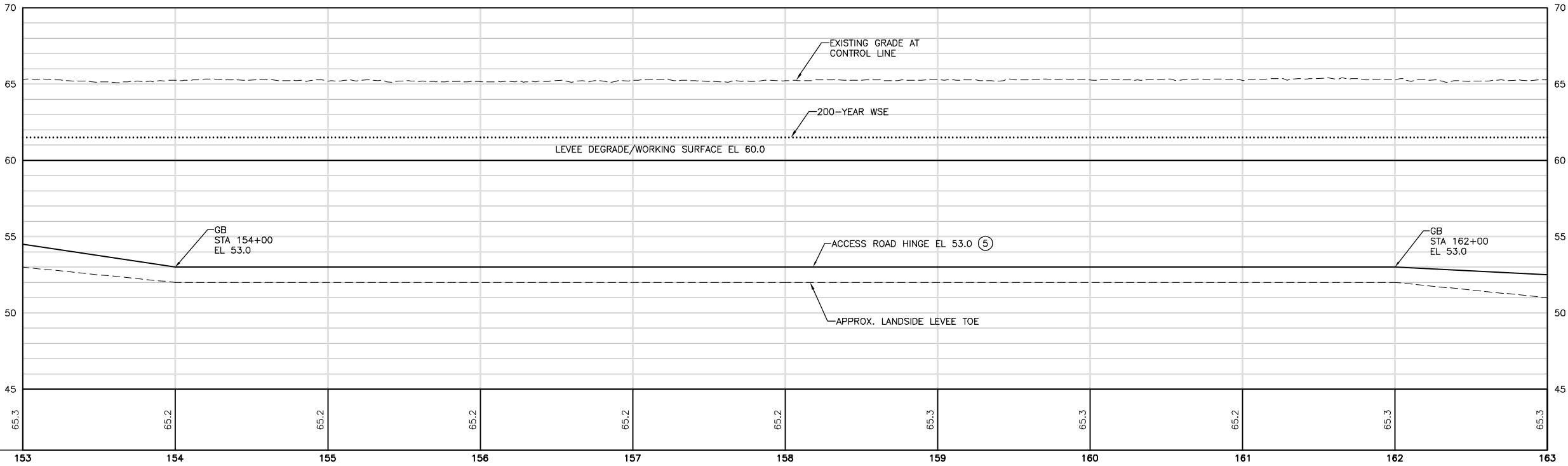
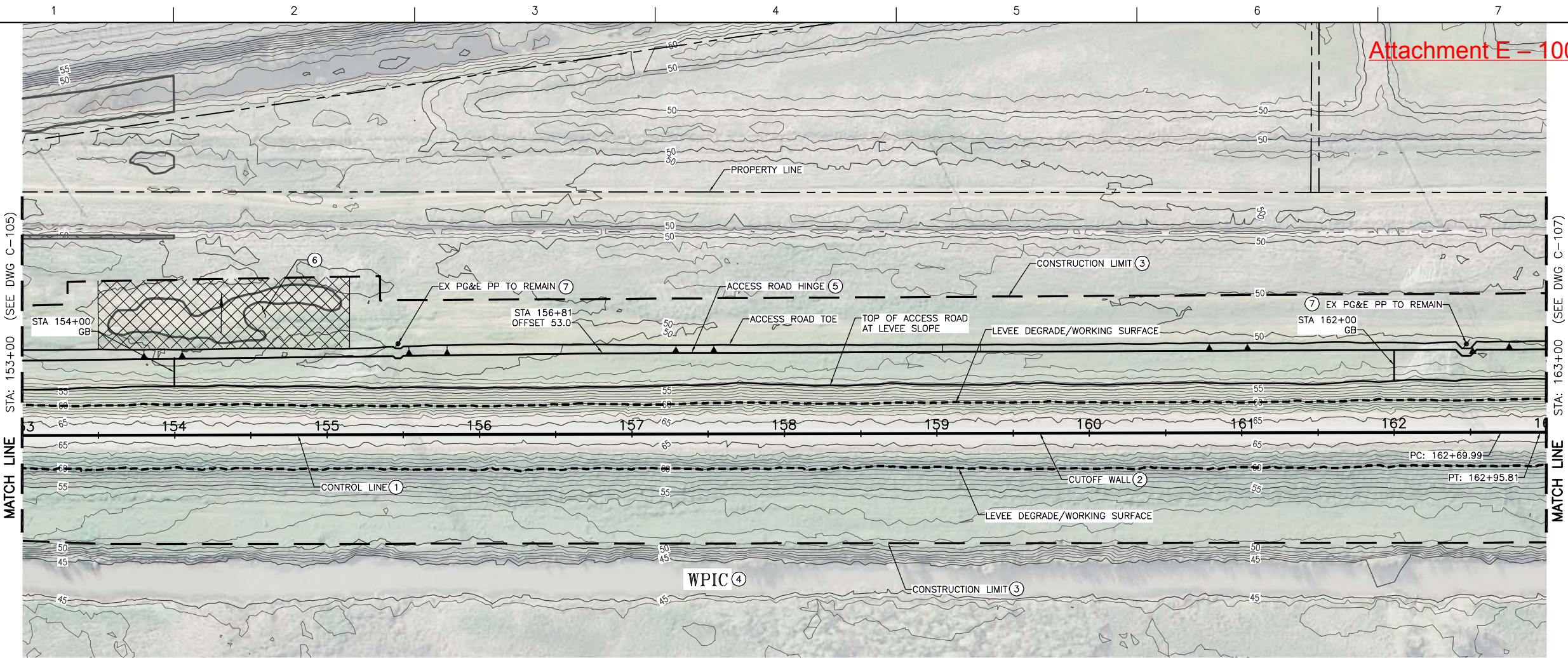
FOR BID

PLAN AND PROFILE

STA 153+00 TO 163+00

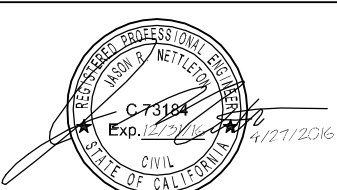
FILENAME C-106.dwg  
SCALE AS SHOWN

SHEET  
C-106



ISSUE	DATE	DESCRIPTION

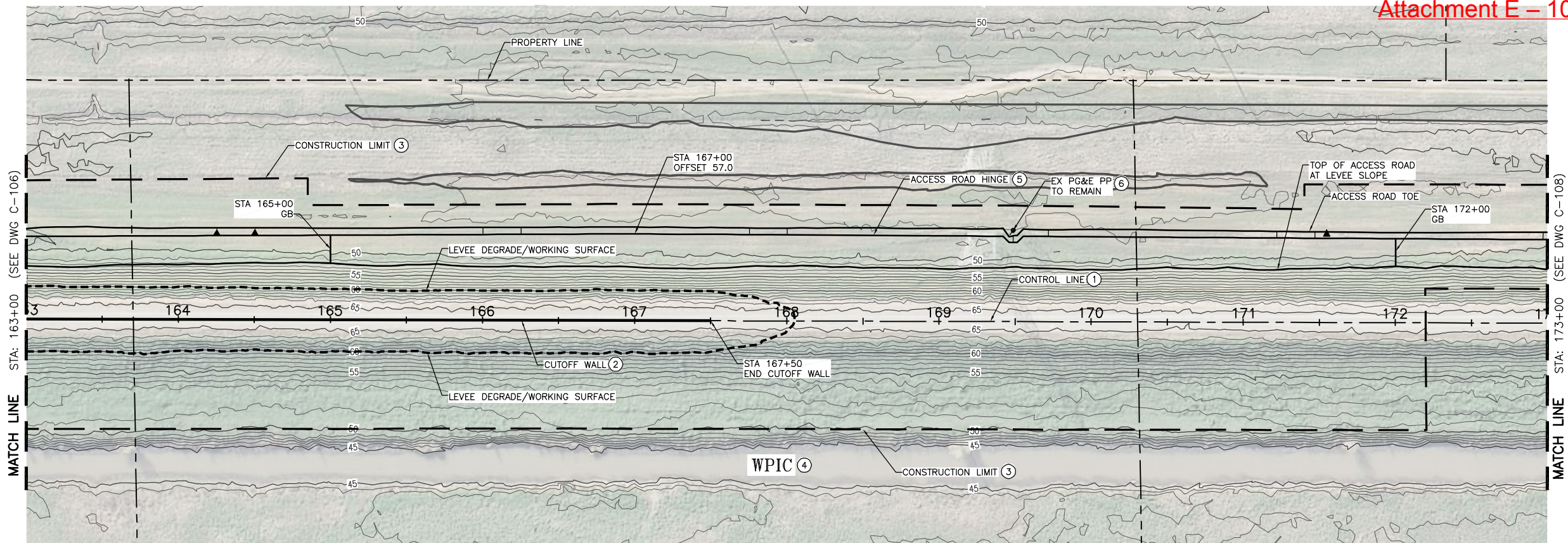
PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

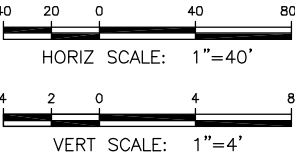
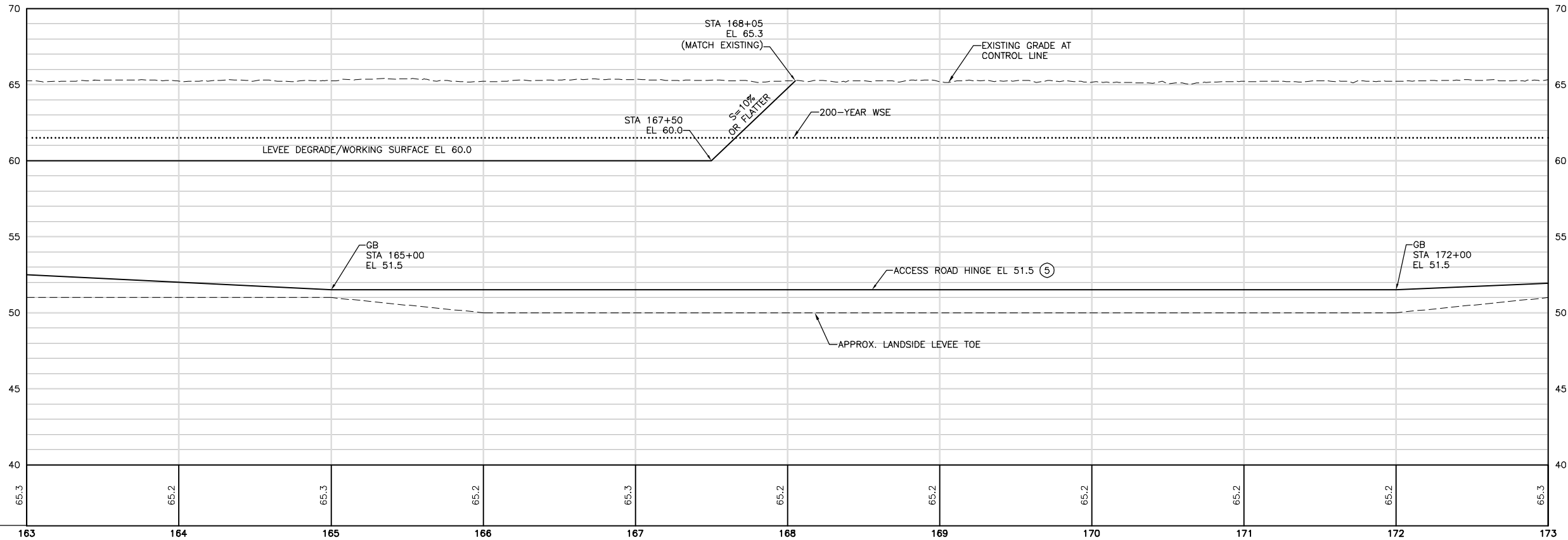
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO THE PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- SEE DETAIL 2 ON SHEET C-305.



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

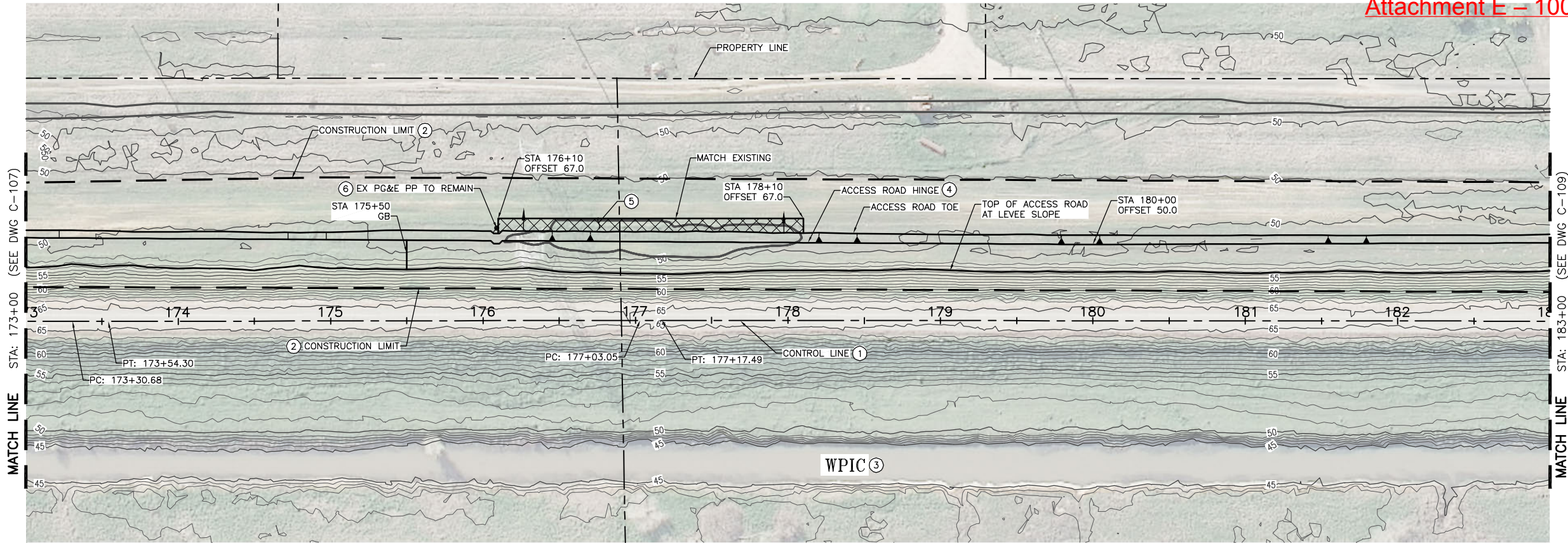
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 163+00 TO 173+00

FILENAME	C-107.dwg
SCALE	AS SHOWN

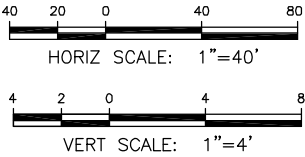
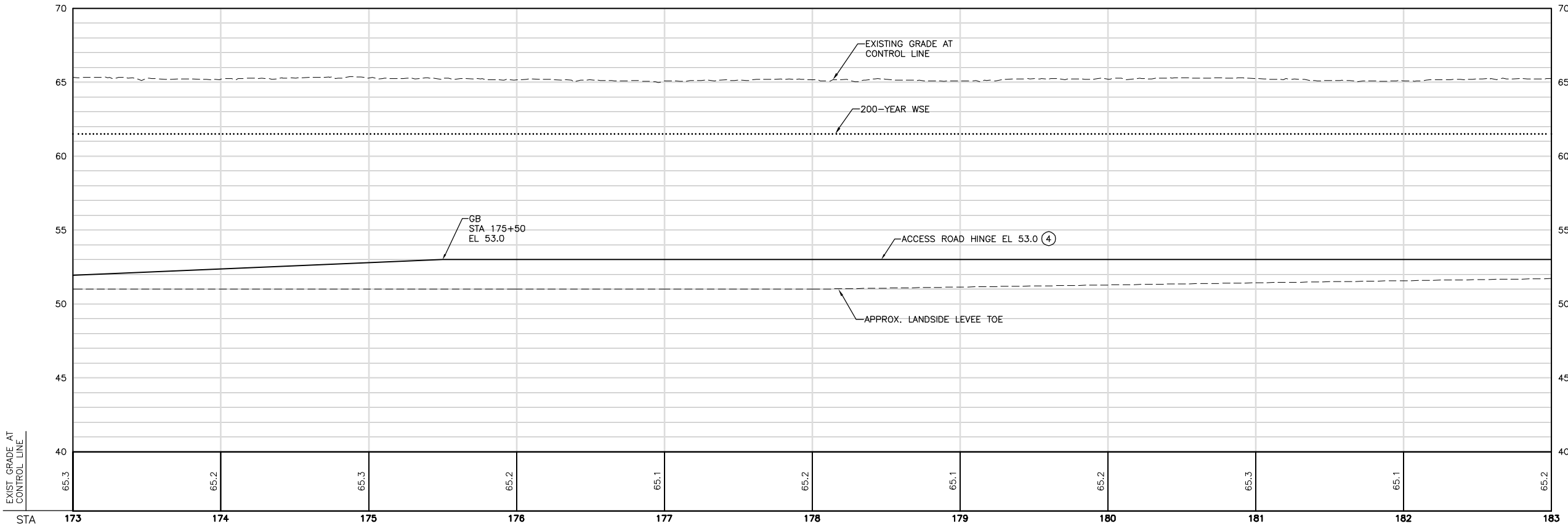
SHEET	C-107
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CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- STA 176+10 TO STA 178+10. GRADE TO DRAIN AS SHOWN.
- SEE DETAIL 2 ON SHEET C-305.

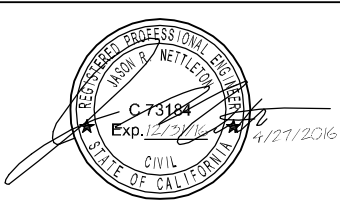


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

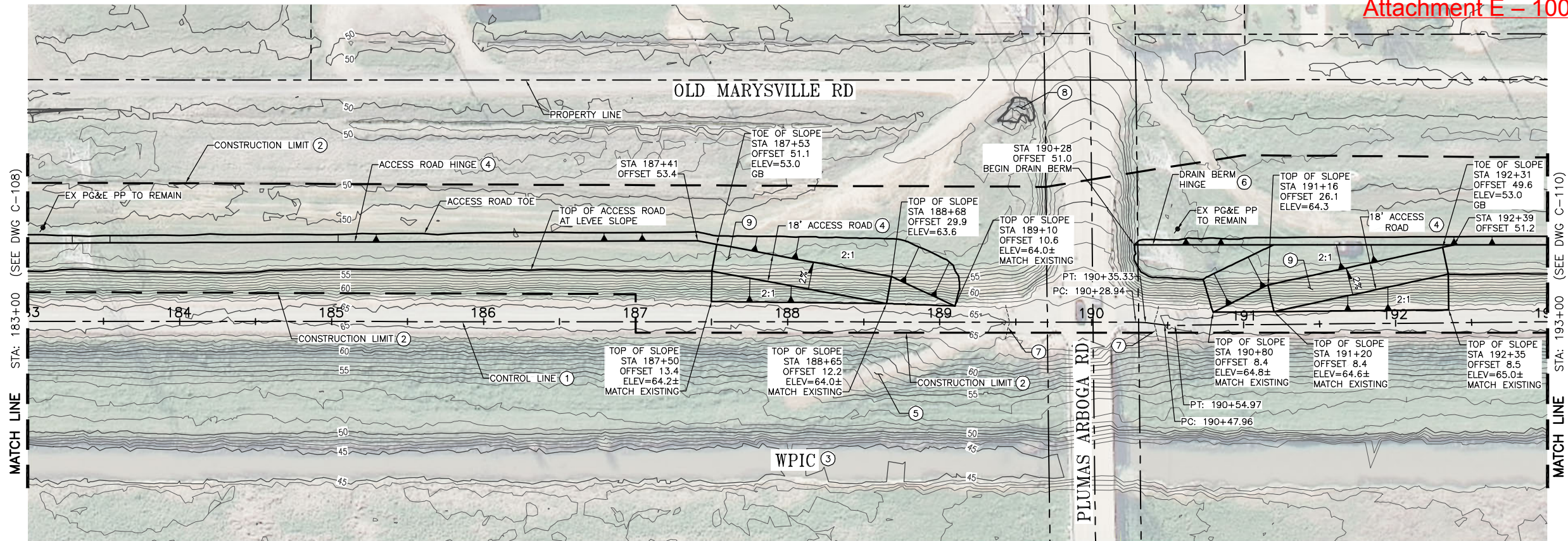


Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

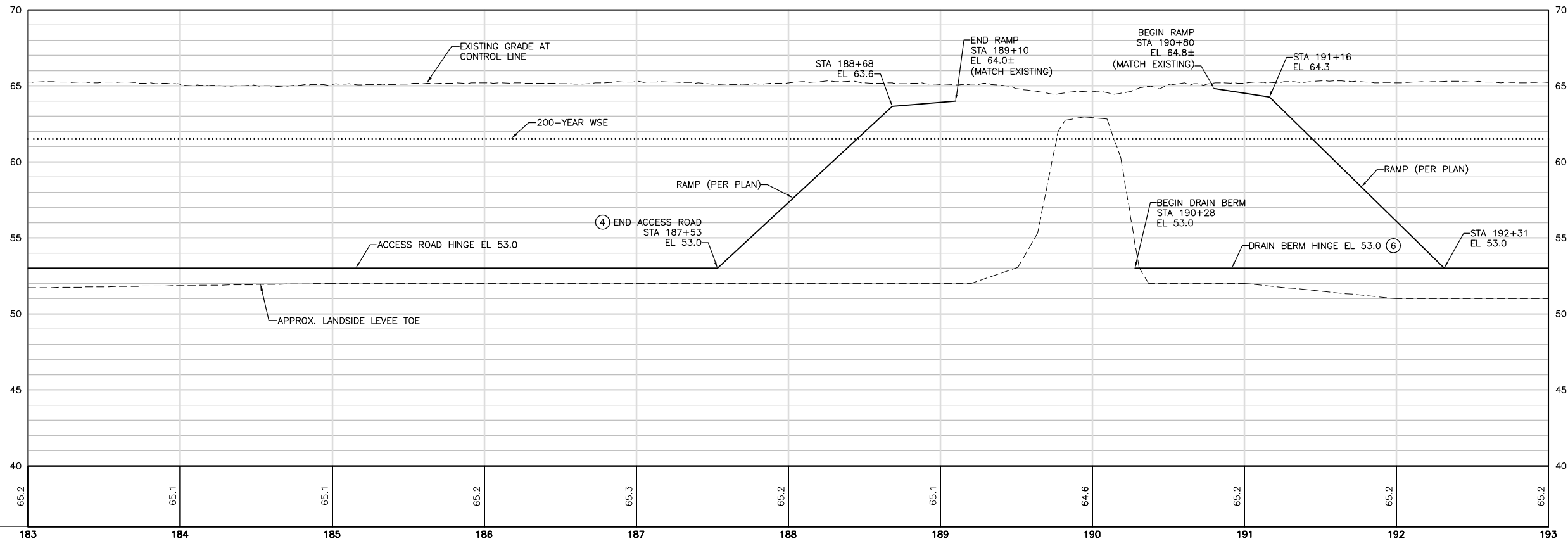
PLAN AND PROFILE STA 173+00 TO 183+00		
FILENAME	C-108.dwg	SHEET
SCALE	AS SHOWN	C-108





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- EXISTING RAMP TO REMAIN.
- SEE TYPICAL DETAIL ON SHEET C-303.
- EXISTING GATE AND FENCE TO REMAIN.
- ENVIRONMENTALLY SENSITIVE AREA. DO NOT DISTURB.
- CONSTRUCT ACCESS RAMP AS SHOWN. RAMP SHALL BE 18'-FT WIDE WITH 10% MAXIMUM LONGITUDINAL SLOPE AND 2% CROSS SLOPE. RAMP SURFACING SHALL BE PER DETAIL ON SHEET C-305. AGGREGATE SURFACING SHALL EXTEND FROM RAMP TOE TO MATCH GRADES AT LEVEE CROWN. CONTRACTOR TO VERIFY LEVEE CROWN GRADE'S PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



HORIZ SCALE: 1"=40'

VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 183+00 TO 193+00

FILENAME C-109.dwg  
SCALE AS SHOWN

SHEET  
C-109





CONSTRUCTION NOTES:

- ① SEE SHEET G-008 FOR CONTROL LINE TABLES.
- ② CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
- SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.
- REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- ③ WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- ④ SEE TYPICAL DETAIL ON SHEET C-303.

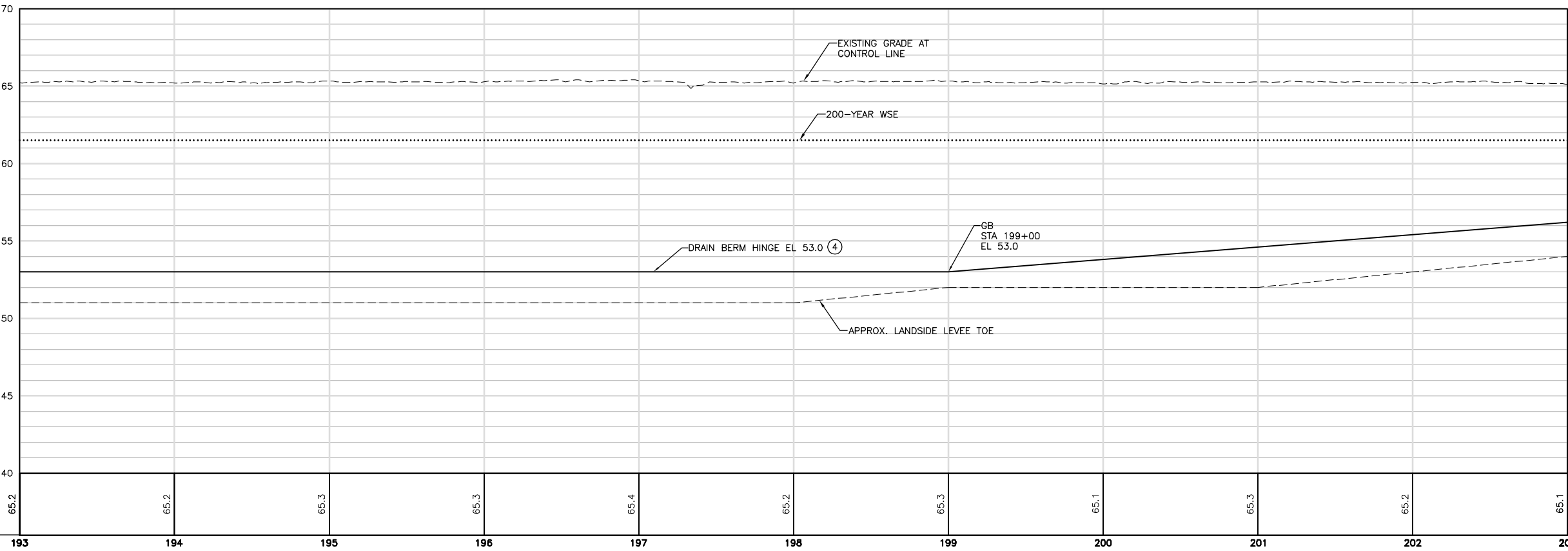
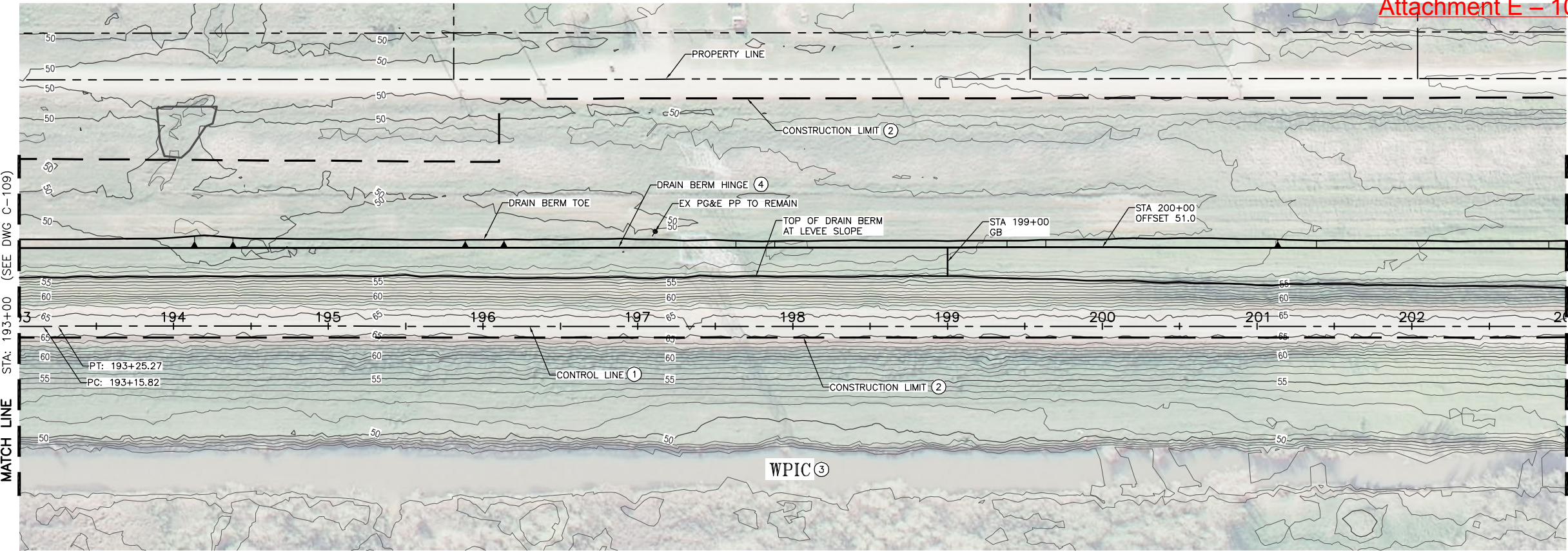


HORIZ SCALE: 1"=40'



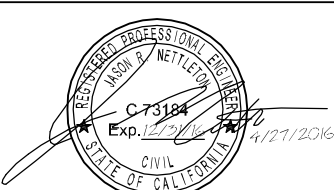
VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

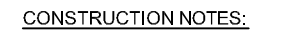
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 193+00 TO 203+00

FILENAME	C-110.dwg
SCALE	AS SHOWN

SHEET	C-110
-------	-------





- 

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

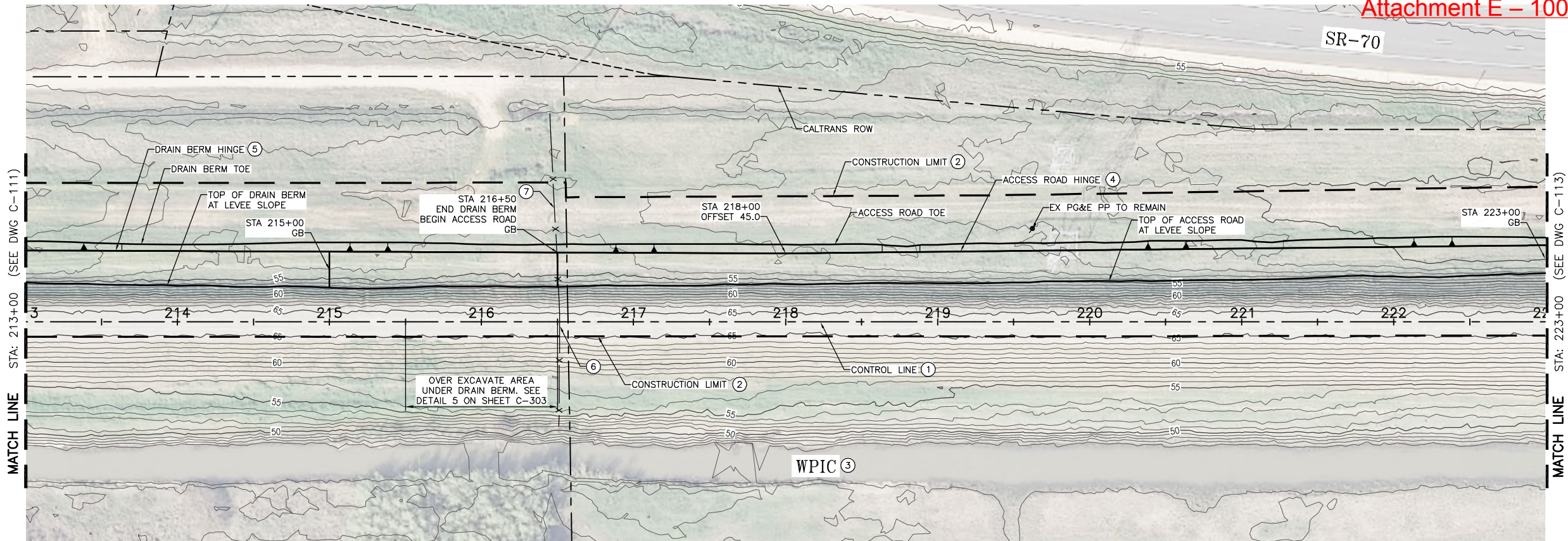


TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 203+00 TO 213+00

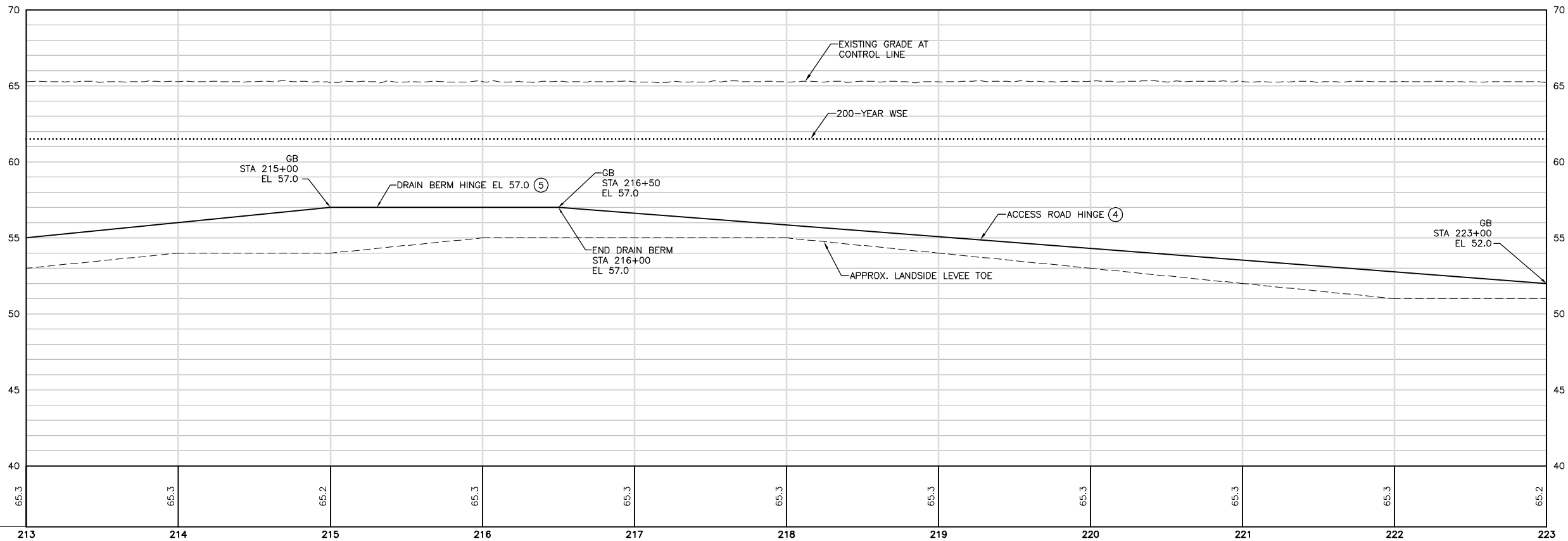
FILENAME	C-111.dwg	SHEET  C-111
SCALE	AS SHOWN	





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- SEE TYPICAL DETAIL ON SHEET C-303.
- EXISTING PIPE GATE AT LEVEE CROWN TO REMAIN.
- EXISTING FENCE ALONG LANDSIDE SLOPE. CONTRACTOR TO DEMOLISH AND WASTE PORTION WITHIN CONSTRUCTION LIMIT AS PART OF CLEAR AND GRUB



HORIZ SCALE: 1"=40'

VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE

STA 213+00 TO 223+00

FILENAME	C-112.dwg
SCALE	AS SHOWN

SHEET	C-112
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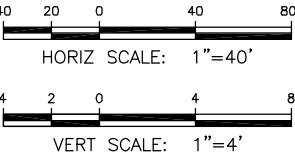
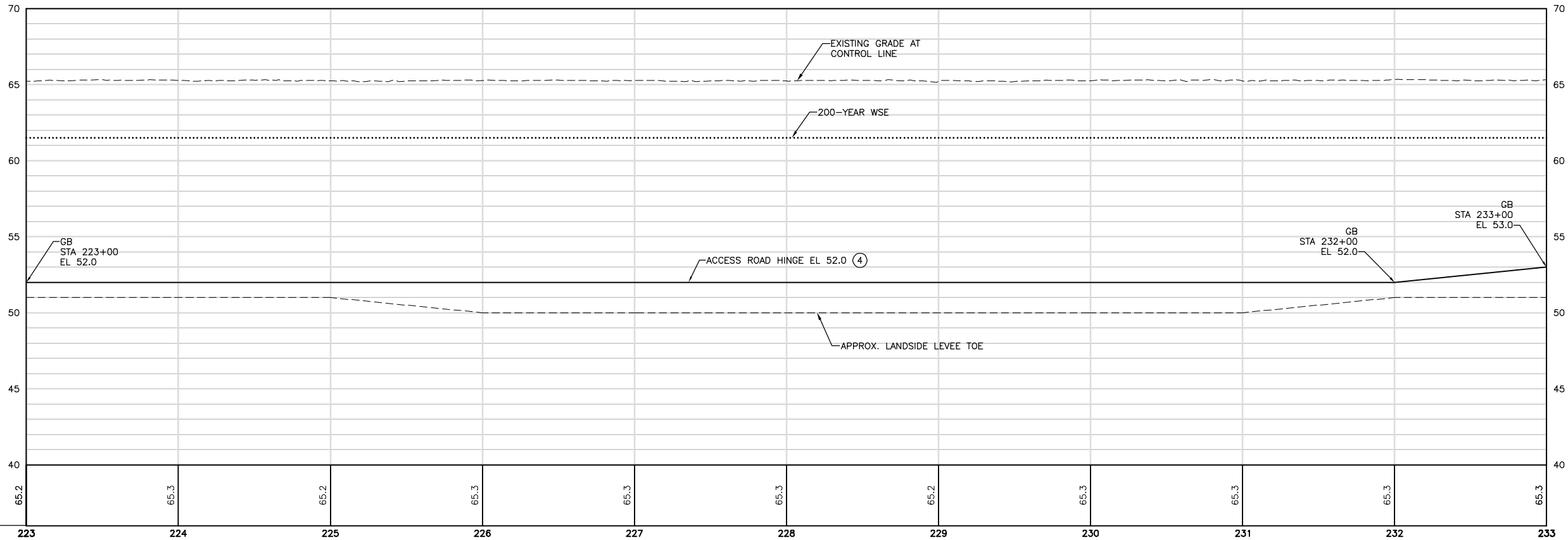


MATCH LINE (SEE DWG C-112)

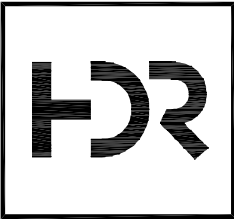
MATCH LINE (SEE DWG C-114)

CONSTRUCTION NOTES:

- ① SEE SHEET G-008 FOR CONTROL LINE TABLES.
- ② CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
- SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.
- REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- ③ WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- ④ SEE TYPICAL DETAIL ON SHEET C-302.



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

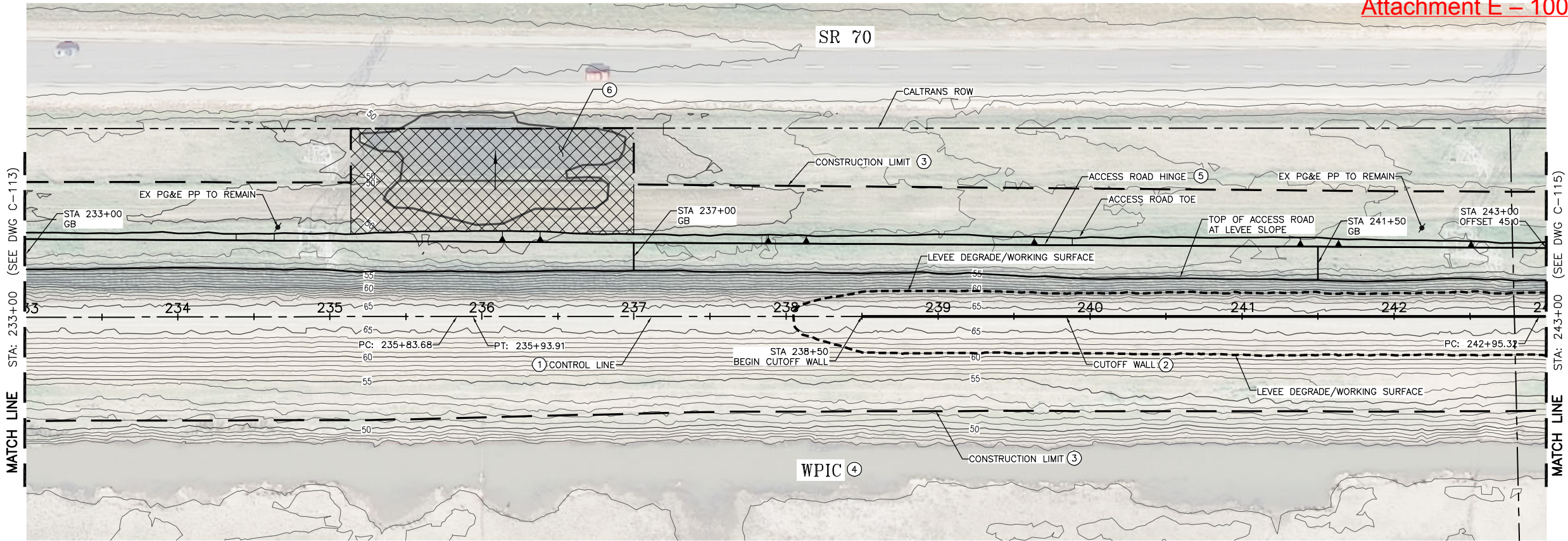
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 223+00 TO 233+00

FILENAME	C-113.dwg
SCALE	AS SHOWN

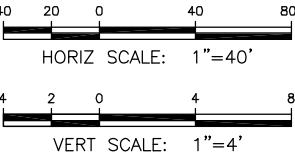
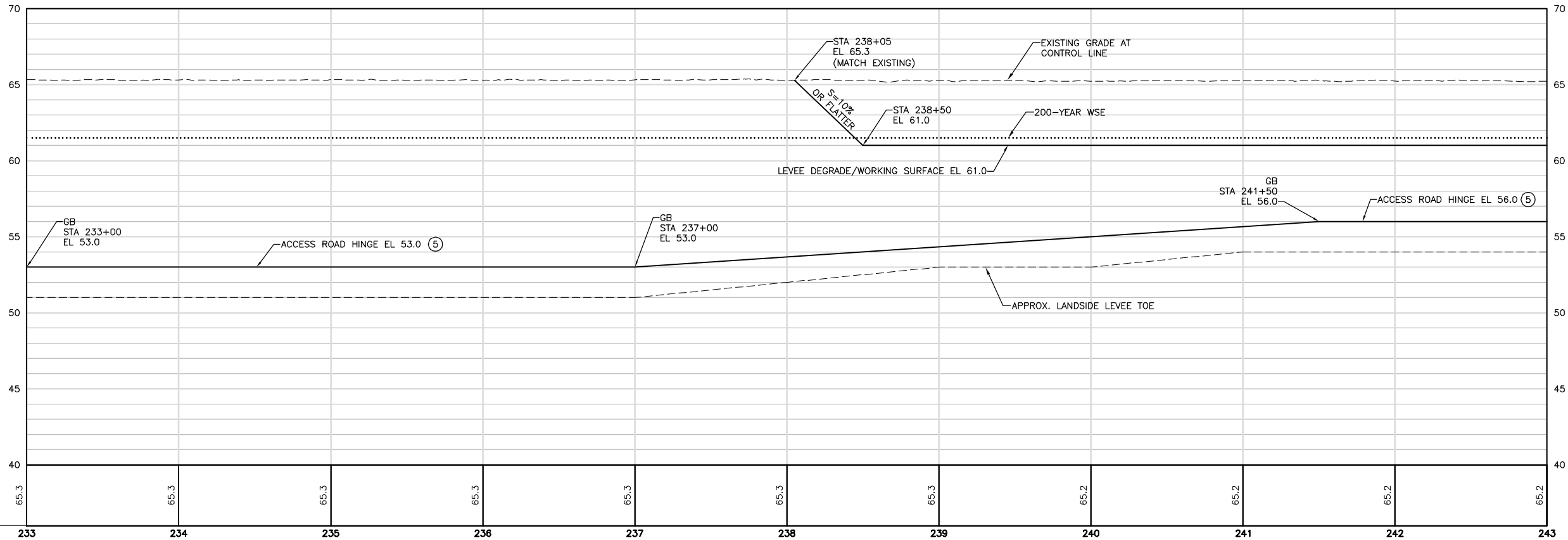
SHEET	C-113
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CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO THE PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- STA 235+14 TO STA 237+00. GRADE TO DRAIN AS SHOWN.

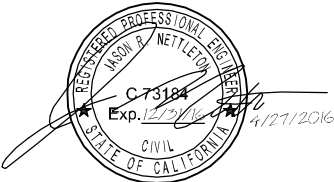


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

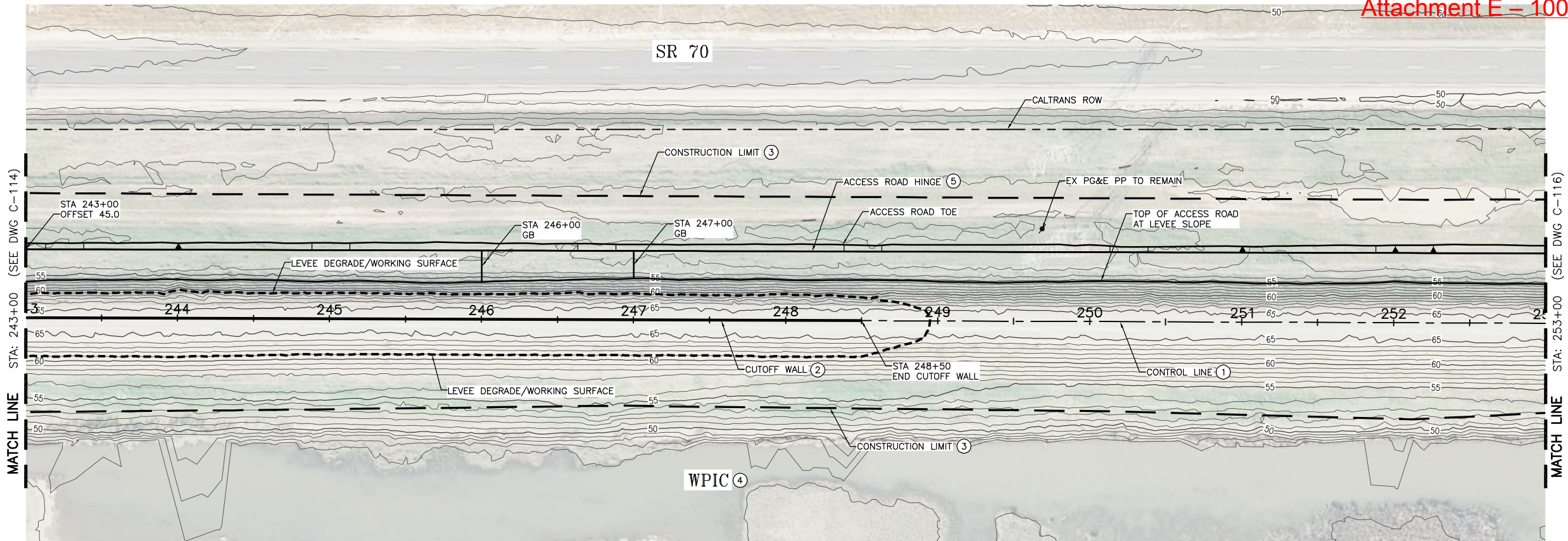
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 233+00 TO 243+00

FILENAME C-114.dwg  
SCALE AS SHOWN

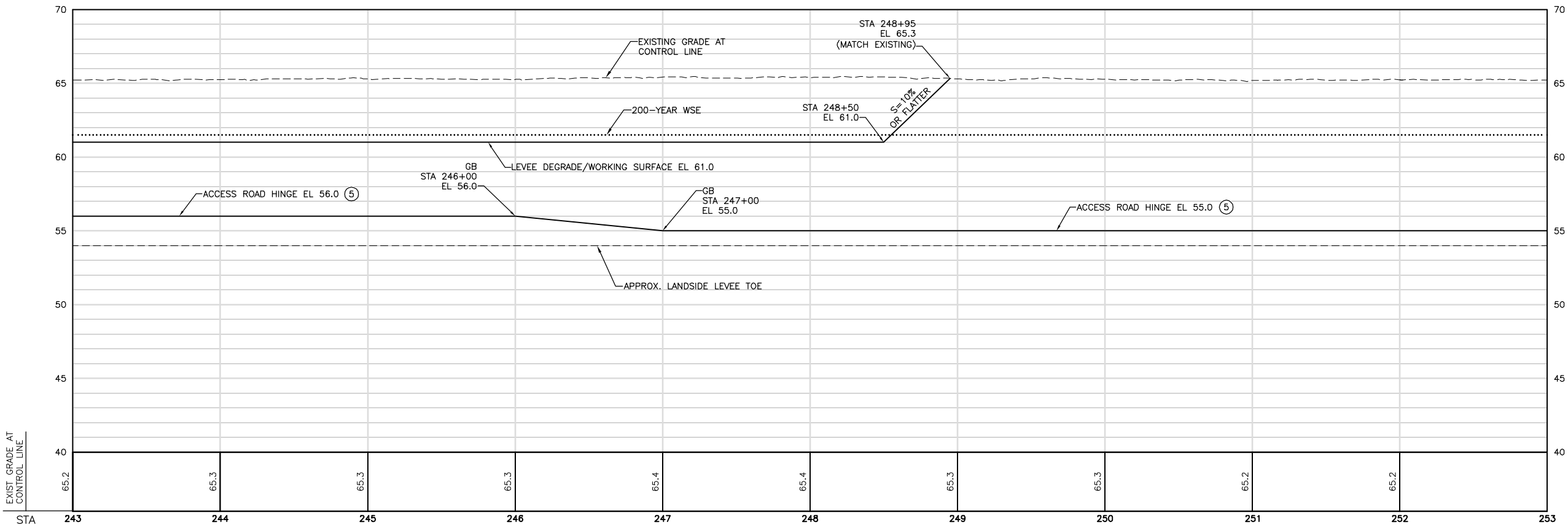
SHEET  
C-114





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- SEE SHEETS C-401 TO C-403 FOR CUTOFF WALL PROFILES. REFER TO PROJECT SPECIFICATIONS FOR ALLOWABLE CUTOFF WALL CONSTRUCTION METHODS.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.



HORIZ SCALE: 1"=40'

VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

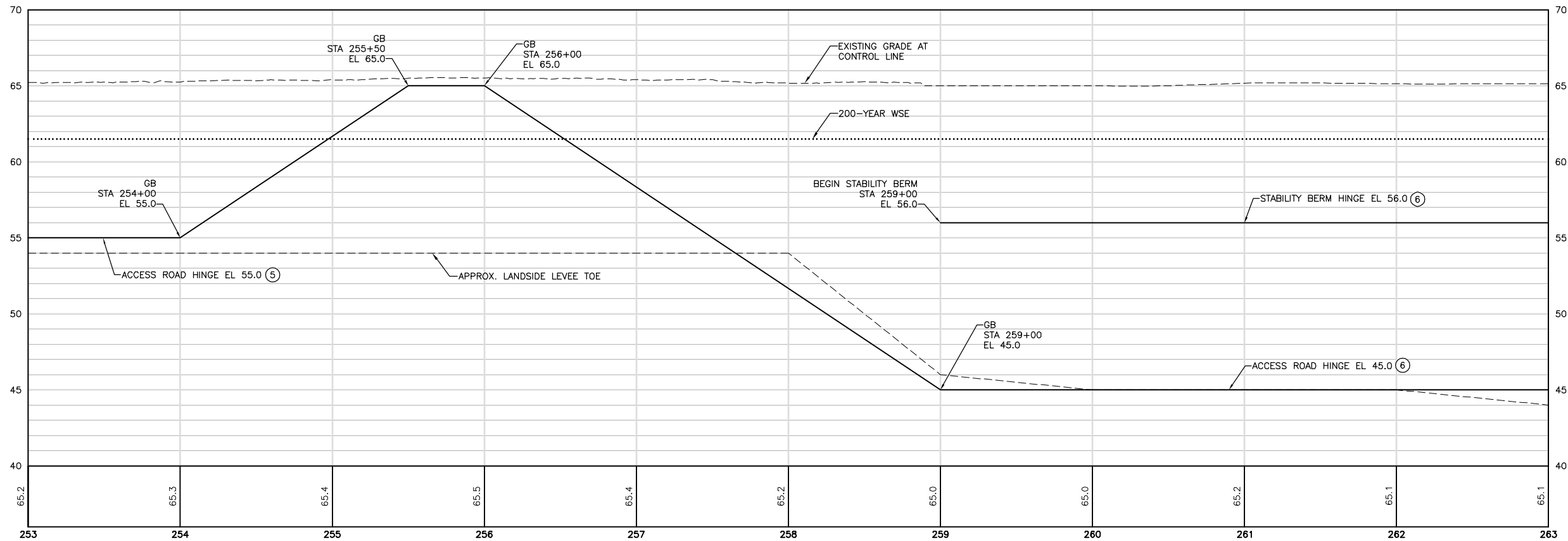
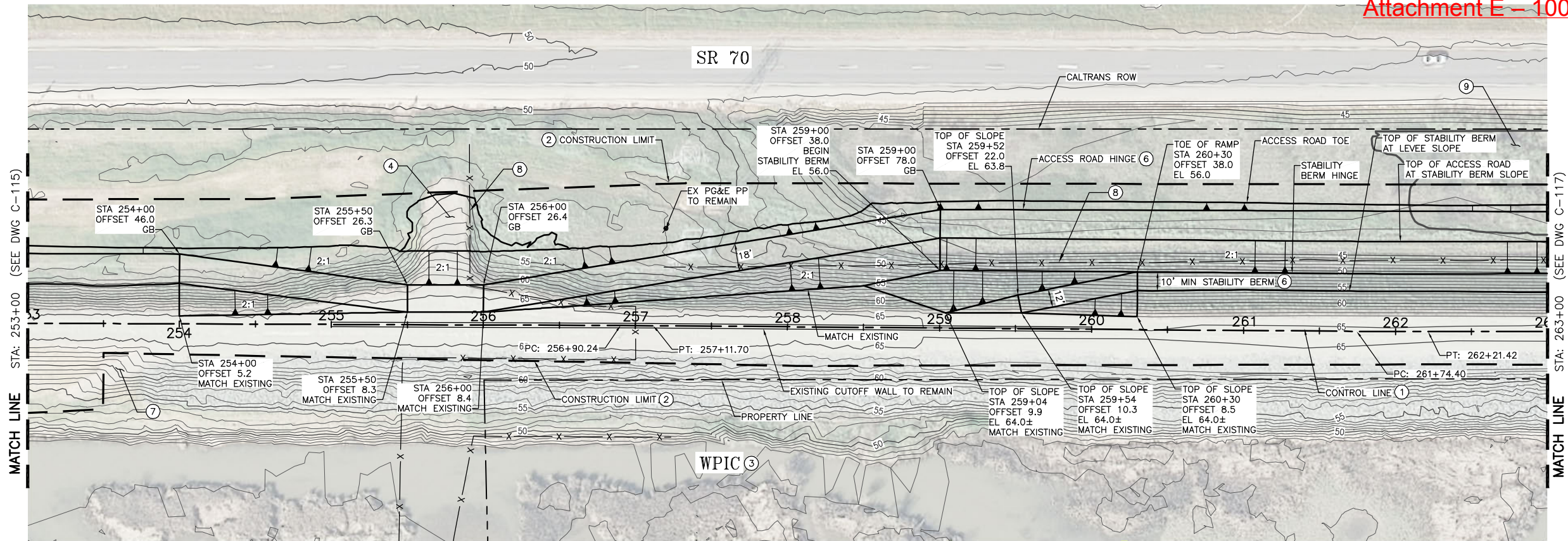
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 243+00 TO 253+00

FILENAME C-115.dwg  
SCALE AS SHOWN

SHEET  
C-115





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- REMOVE EXISTING RAMP AS SHOWN AND TO THE CONSTRUCTION LIMIT.
- SEE TYPICAL DETAIL ON SHEET C-302.
- SEE TYPICAL DETAIL ON SHEET C-303.
- EXISTING RAMP TO REMAIN.
- EXISTING GATE AND FENCE. CONTRACTOR TO DEMOLISH AND WASTE PORTION WITHIN CONSTRUCTION LIMIT AS A PART CLEAR AND GRUB.
- ENVIRONMENTALLY SENSITIVE AREA. DO NOT DISTURB PORTION OUTSIDE OF CONSTRUCTION LIMIT.



HORIZ SCALE: 1"=40'



VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

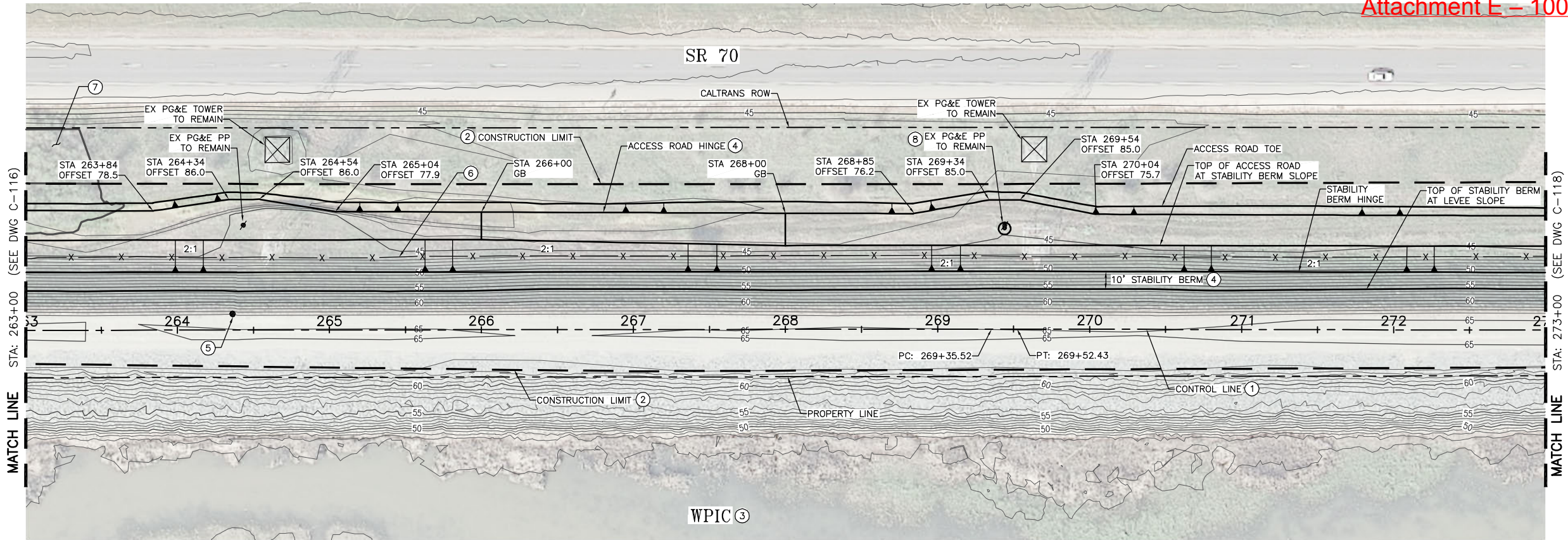
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 253+00 TO 263+00

FILENAME	C-116.dwg
SCALE	AS SHOWN

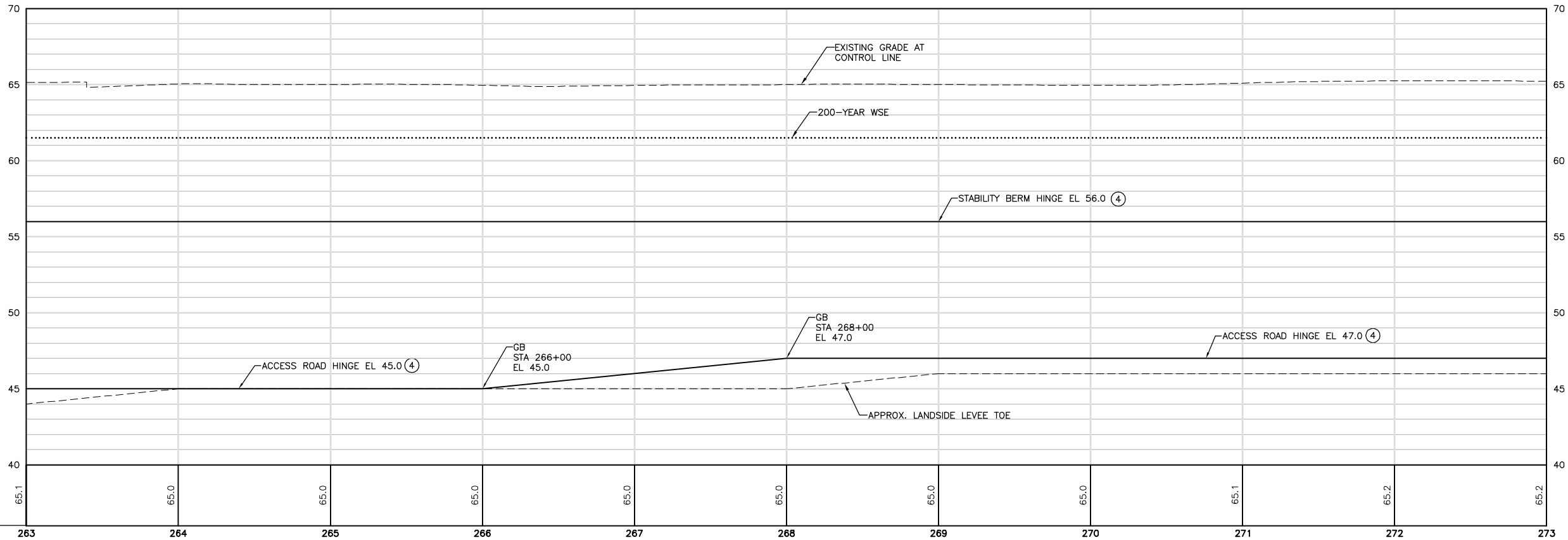
SHEET	C-116
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CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-303.
- EXISTING MILE POST TO REMAIN.
- EXISTING FENCE. CONTRACTOR TO DEMOLISH AND WASTE PORTION WITHIN CONSTRUCTION LIMIT AS A PART CLEAR AND GRUB.
- ENVIRONMENTALLY SENSITIVE AREA. DO NOT DISTURB PORTION OUTSIDE CONSTRUCTION LIMIT.
- SEE DETAILS 1 AND 3 ON SHEET C-305.



HORIZ SCALE: 1"=40'

VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

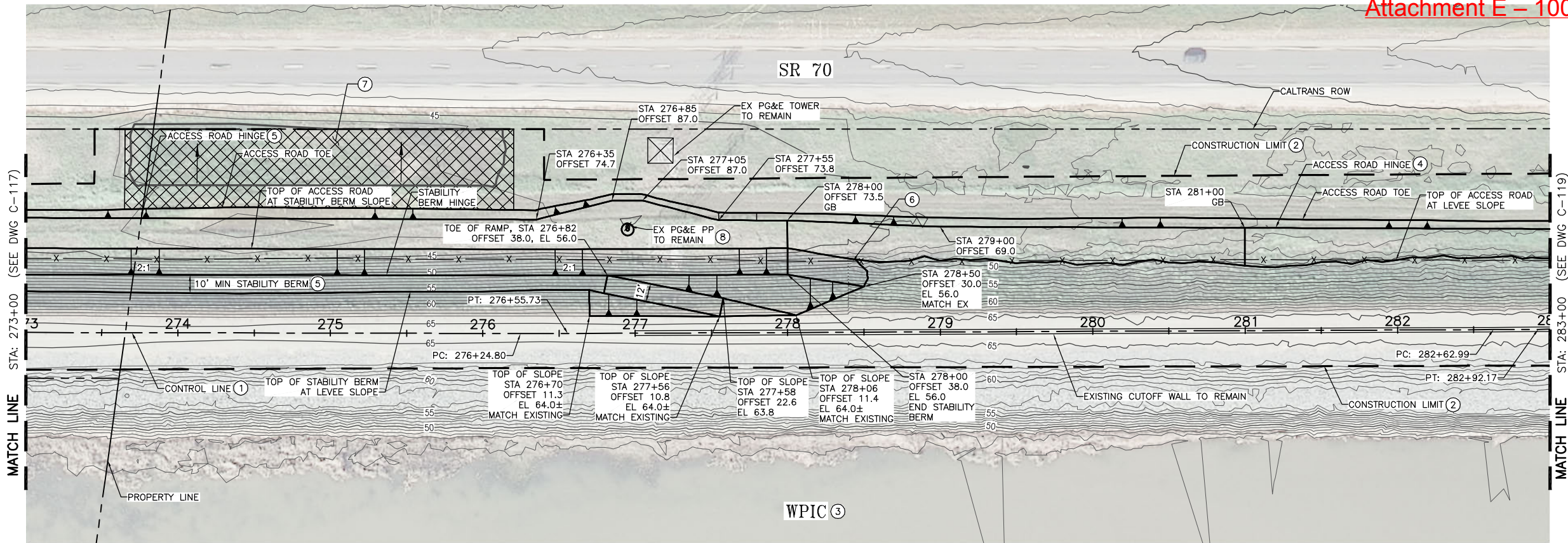
PLAN AND PROFILE

STA 263+00 TO 273+00

FILENAME C-117.dwg  
SCALE AS SHOWN

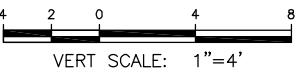
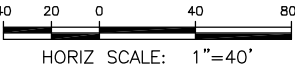
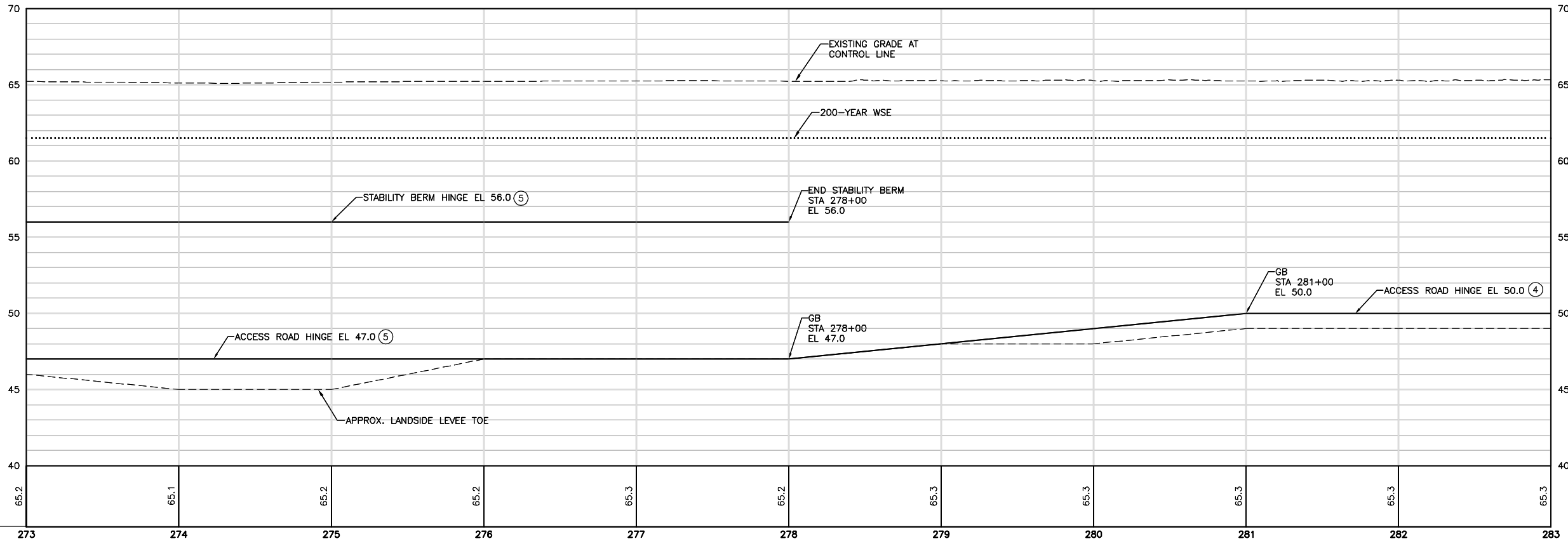
SHEET  
C-117





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- SEE TYPICAL DETAIL ON SHEET C-303.
- EXISTING FENCE. CONTRACTOR TO DEMOLISH AND WASTE PORTION WITHIN CONSTRUCTION LIMIT AS A PART OF CLEAR AND GRUB.
- STA 273+65 TO STA 276+20. GRADE TO DRAIN AS SHOWN.
- SEE DETAILS 1 AND 3 ON SHEET C-305.



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

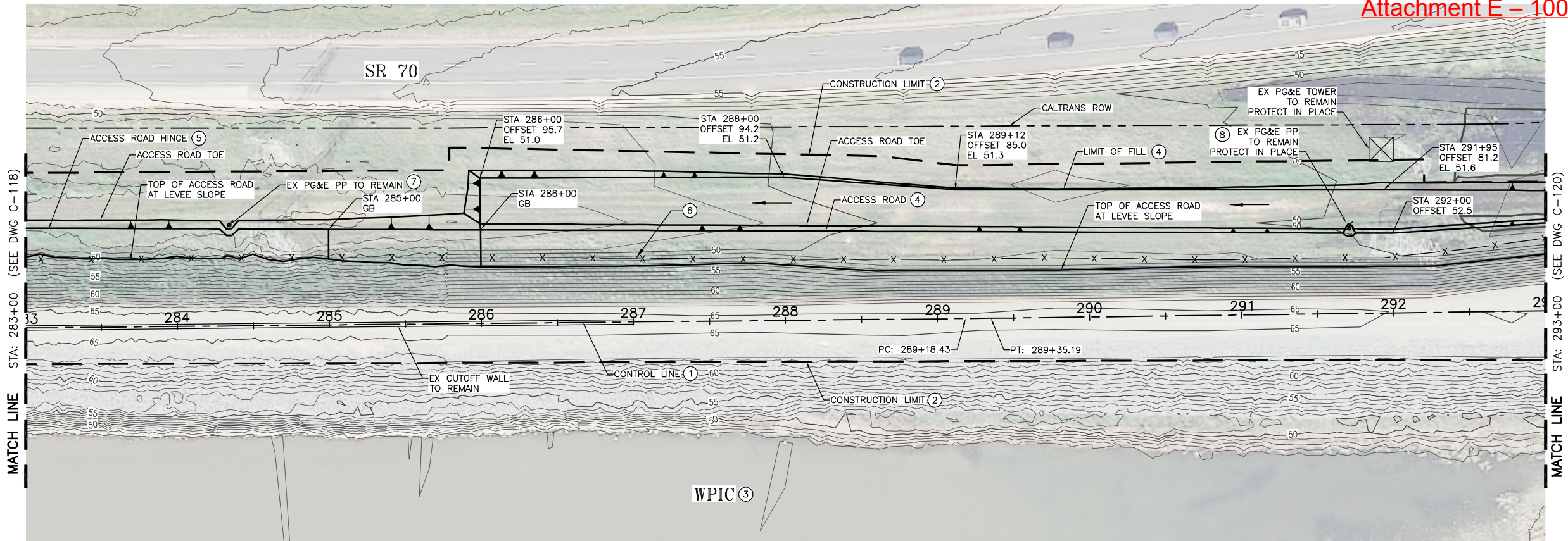
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 273+00 TO 283+00

FILENAME	C-118.dwg
SCALE	AS SHOWN

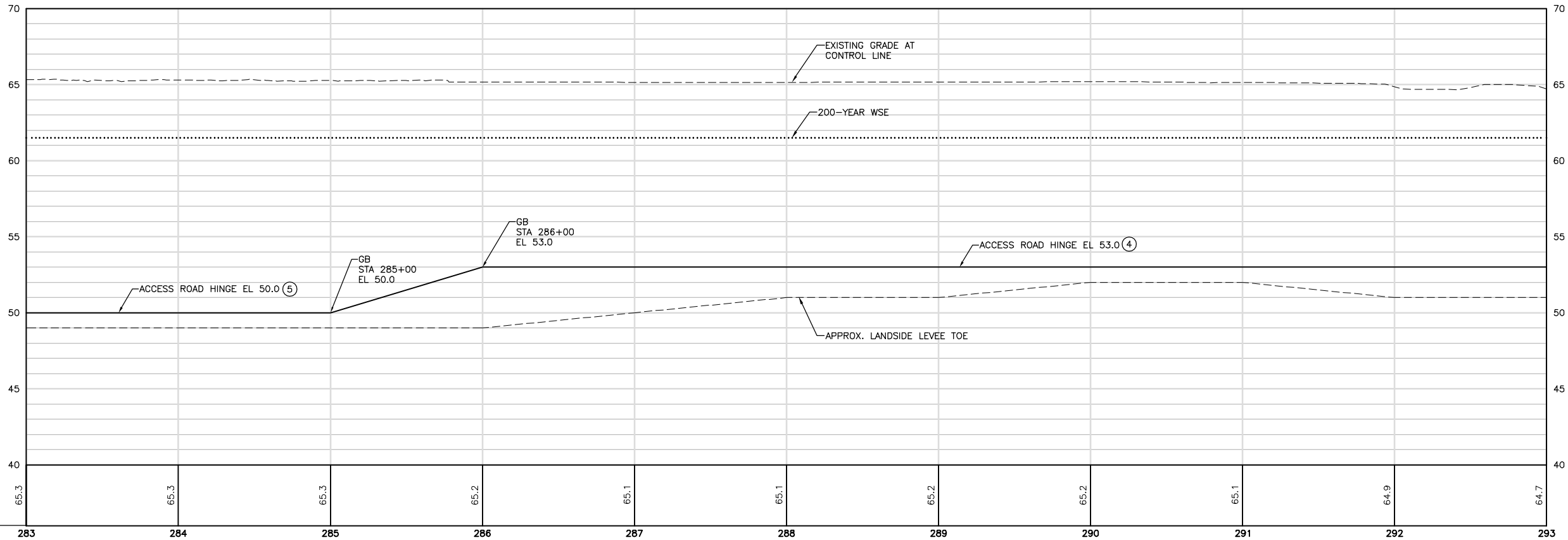
SHEET	C-118
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CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-304.
- SEE TYPICAL DETAIL ON SHEET C-302.
- EXISTING FENCE. CONTRACTOR TO DEMOLISH AND WASTE PORTION WITHIN CONSTRUCTION LIMIT AS A PART OF CLEAR AND GRUB.
- SEE DETAIL 2 ON SHEET C-305.
- SEE DETAILS 1 AND 3 ON SHEET C-305.



HORIZ SCALE: 1"=40'

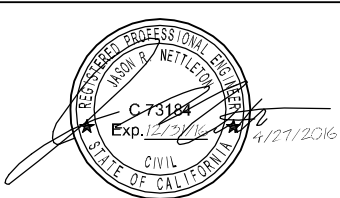
VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE

STA 283+00 TO 293+00

FILENAME C-119.dwg  
SCALE AS SHOWN

SHEET  
C-119





CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-304.
- EXISTING RAMP TO REMAIN.
- SEE TYPICAL DETAIL ON SHEET C-302.
- REMOVE EXISTING RAMP PRIOR TO PIT FILL.
- EXISTING FENCE. CONTRACTOR TO DEMOLISH AND WASTE PORTION WITHIN CONSTRUCTION LIMIT AS A PART OF CLEAR AND GRUB.
- SEE DETAILS 1 AND 3 ON SHEET C-305.
- ENVIRONMENTAL SENSITIVE AREA. DO NOT DISTURB.

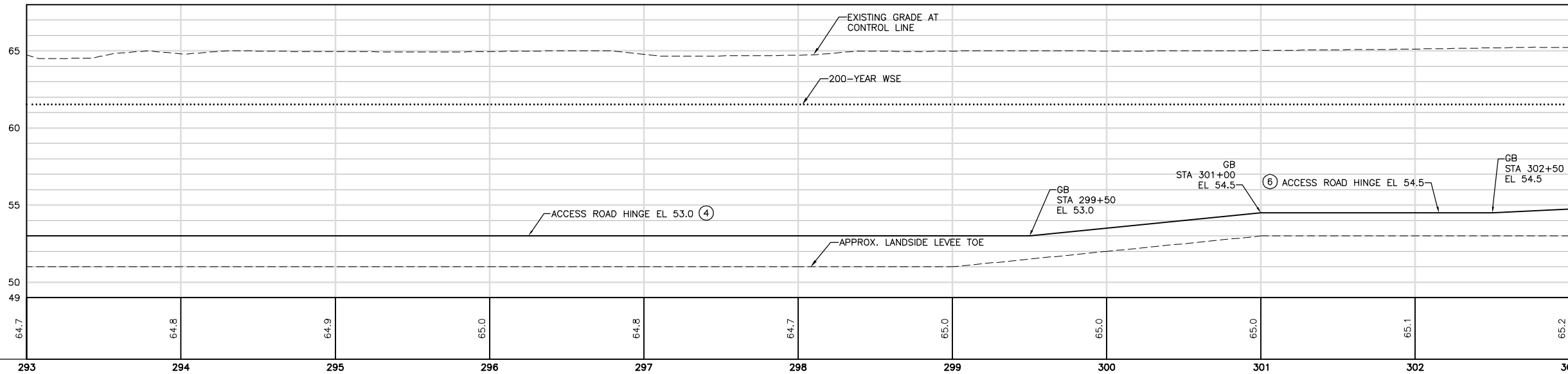
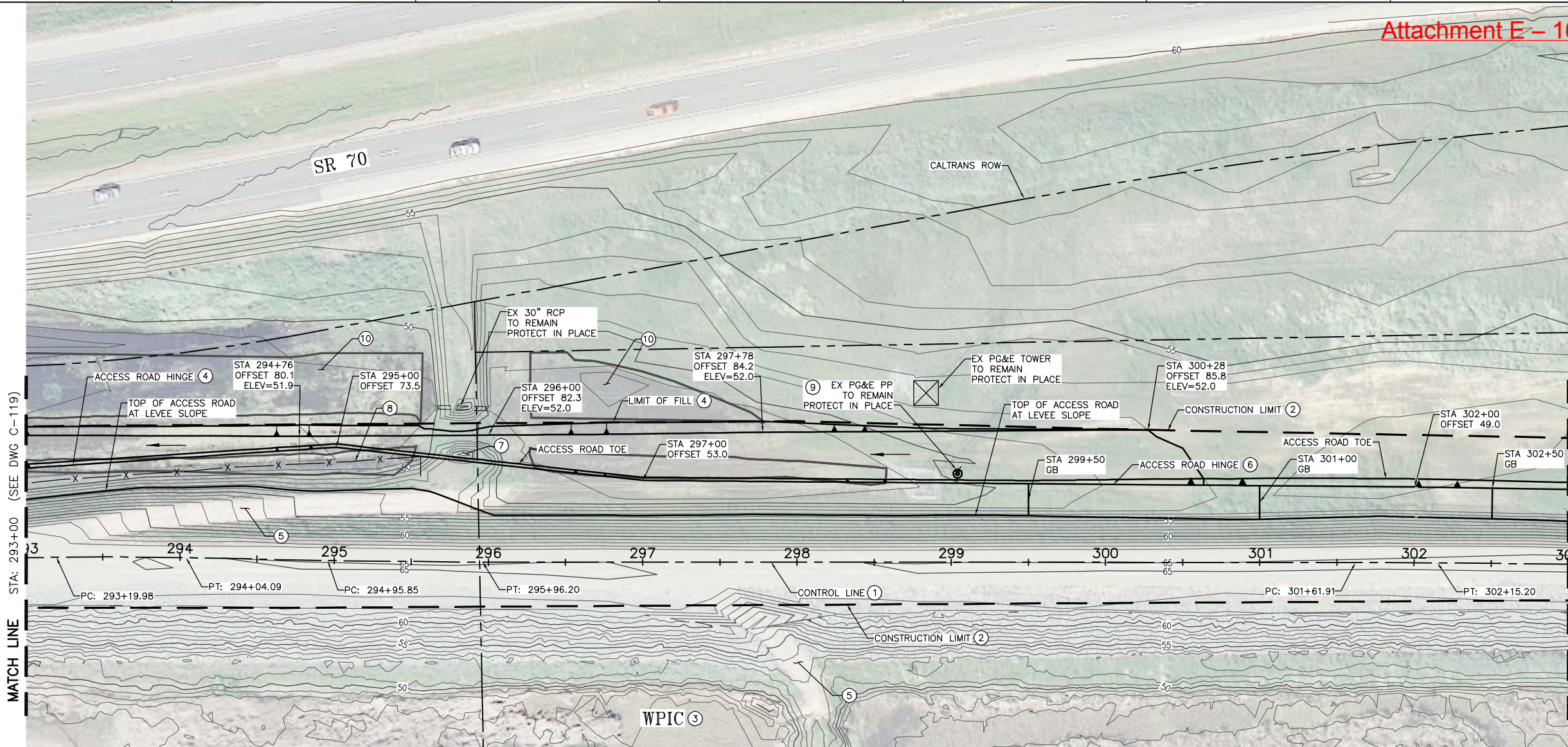


HORIZ SCALE: 1"=40'



VERT SCALE: 1"=4'

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

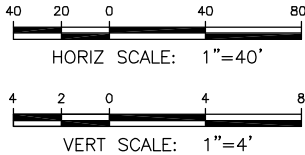
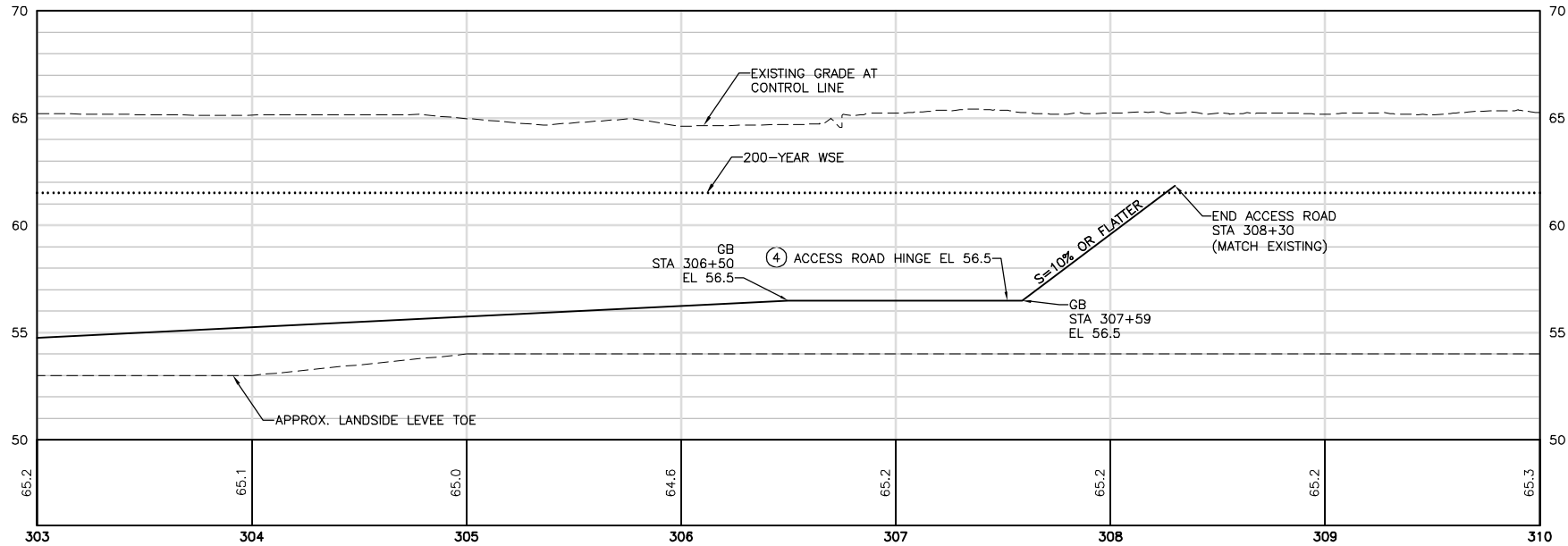
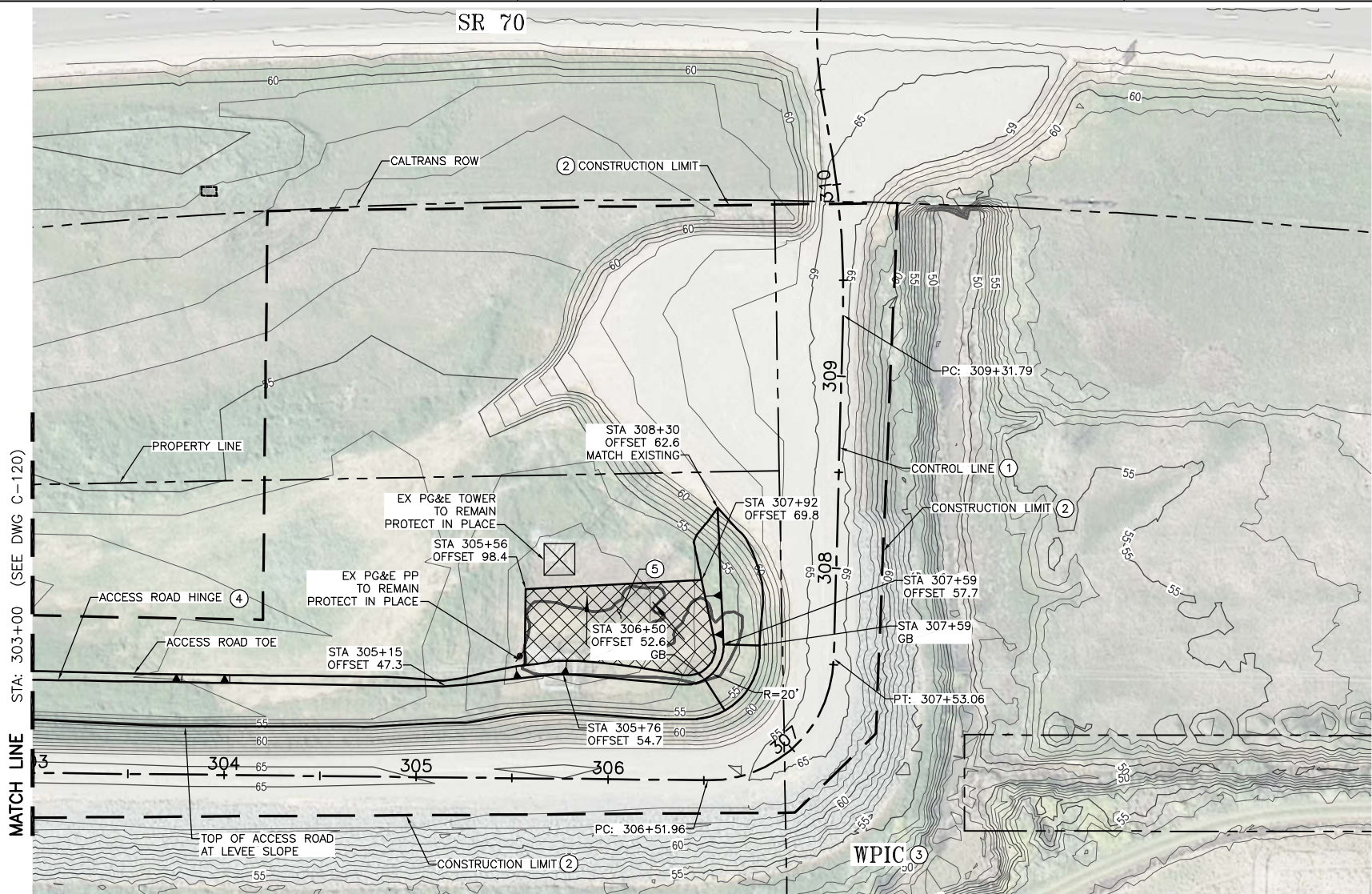
PLAN AND PROFILE

STAT 293+00 TO 303+00

FILENAME	C-119.dwg
SCALE	AS SHOWN

SHEET	C-120
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FOR BID

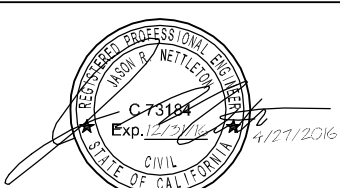
CONSTRUCTION NOTES:

- SEE SHEET G-008 FOR CONTROL LINE TABLES.
- CONTRACTOR SHALL PROVIDE FENCING AS FOLLOWS:
  - SILT FENCING ALONG THE WATERSIDE CONSTRUCTION LIMIT.
  - K RAIL AND SILT FENCING ALONG THE CONSTRUCTION LIMIT WHERE LEVEE DEGRADE MATERIAL IS SIDE CAST ALONG THE WATERSIDE SLOPE.
  - HIGH VISIBILITY FENCING AT THE CONSTRUCTION LIMIT AT ALL OTHER LOCATIONS.REFER TO THE PROJECT SWPPP FOR SILT FENCING DETAILS AND REQUIREMENTS. REFER TO G-100 SHEETS FOR ADDITIONAL FENCING REQUIREMENTS ALONG HAUL ROUTES.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THE SPECIFICATIONS.
- SEE TYPICAL DETAIL ON SHEET C-302.
- STA 305+56 TO STA 307+92. GRADE TO DRAIN AS SHOWN.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

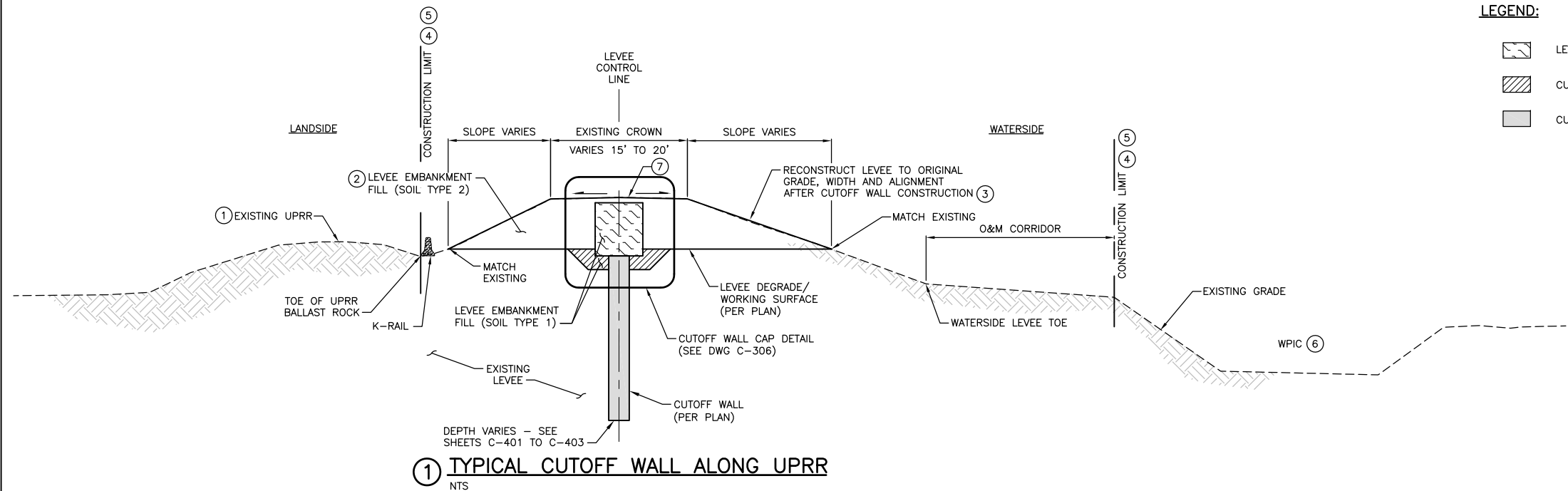
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

PLAN AND PROFILE  
STA 303+00 TO 310+00

FILENAME	C-121.dwg
SCALE	AS SHOWN

SHEET
C-121





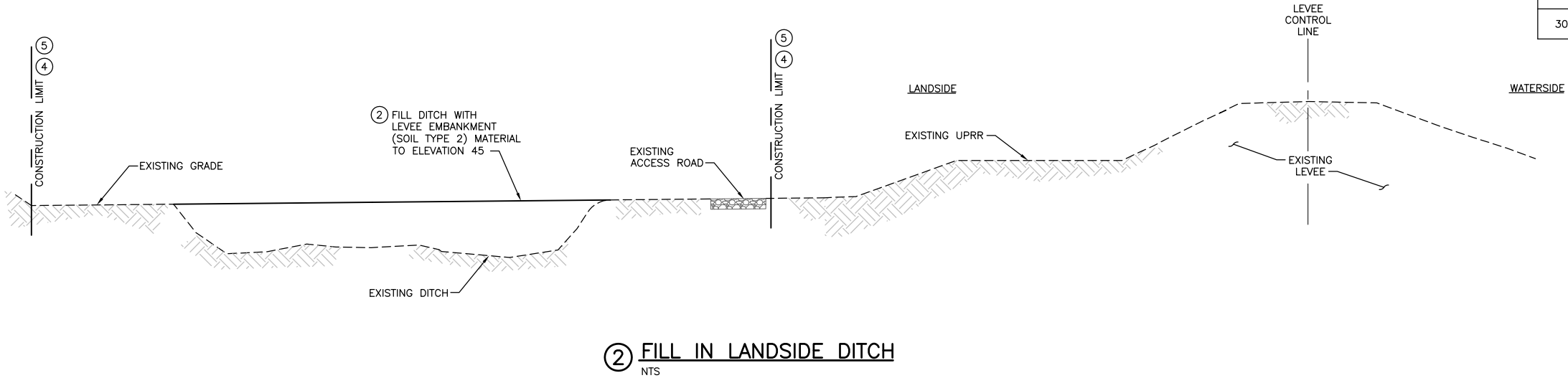
1 TYPICAL CUTOFF WALL ALONG UPRR  
NTS

- LEGEND:
- LEVEE EMBANKMENT FILL (SOIL TYPE 1)
  - CUTOFF TRENCH (SOIL TYPE 1)
  - CUTOFF WALL

Attachment E – 100% Project Drawings

- NOTES:
- UPRR TO REMAIN. RAILROAD WILL BE IN OPERATION DURING CONSTRUCTION. CONTRACTOR TO PROVIDE K-RAIL AT CONSTRUCTION LIMIT ALONG UPRR TRACK. CONTRACTOR SHALL NOT WORK ON OR ACCESS RAILROAD EMBANKMENT OUTSIDE OF CONSTRUCTION LIMIT. CONTRACTOR SHALL NOT SPOIL OR STOCKPILE MATERIAL ON K-RAIL.
  - FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
  - FINISHED GRADE LINES SHOWN DO NOT INCLUDE PLACEMENT OF TOPSOIL. TOPSOIL PLACEMENT SHALL BE PER PROJECT SPECIFICATIONS.
  - CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMIT SHOWN ON THESE PLANS.
  - CONSTRUCTION LIMIT SHOWN IS TYPICAL. VARIATIONS ARE SHOWN ON THE PLANS. SEE SHEETS G-009 TO G-010 FOR CONSTRUCTION LIMIT LAYOUT.
  - WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THESE PLANS.
  - CONTRACTOR SHALL SALVAGE EXISTING AGGREGATE BASE IN ACCORDANCE WITH THE SPECIFICATIONS. CROWN RESURFACING PER DETAIL ON SHEET C-305.

LEVEE SECTION SCHEDULE				
BEGIN	END	SECTION DESIGNATION	REHABILITATION MEASURE	DRAWING NO.
9+50	24+50	1	CUTOFF WALL	C-301
115+00	119+00	2	FILL IN DITCH	C-301
136+00	144+50	3	LANDSIDE ACCESS ROAD	C-302
144+50	167+50	4	CUTOFF WALL	C-302
167+50	187+50	3	LANDSIDE ACCESS ROAD	C-302
190+28	216+50	5	DRAIN BERM	C-303
216+50	238+50	3	LANDSIDE ACCESS ROAD	C-302
238+50	248+50	4	CUTOFF WALL	C-302
248+50	259+00	3	LANDSIDE ACCESS ROAD	C-302
259+00	278+00	6	STABILITY BERM	C-303
278+00	286+00	3	LANDSIDE ACCESS ROAD	C-302
286+00	300+00	7	LANDSIDE FILL	C-304
300+00	308+30	3	LANDSIDE ACCESS ROAD	C-302



2 FILL IN LANDSIDE DITCH  
NTS

FOR BID



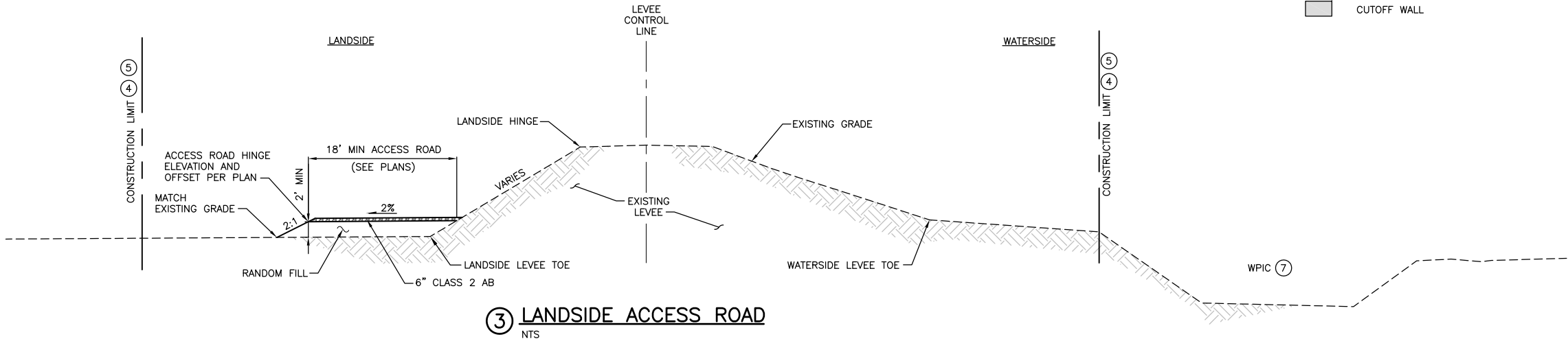
LEGEND:

- LEVEE EMBANKMENT FILL (SOIL TYPE 1)
- CUTOFF TRENCH (SOIL TYPE 1)
- CUTOFF WALL

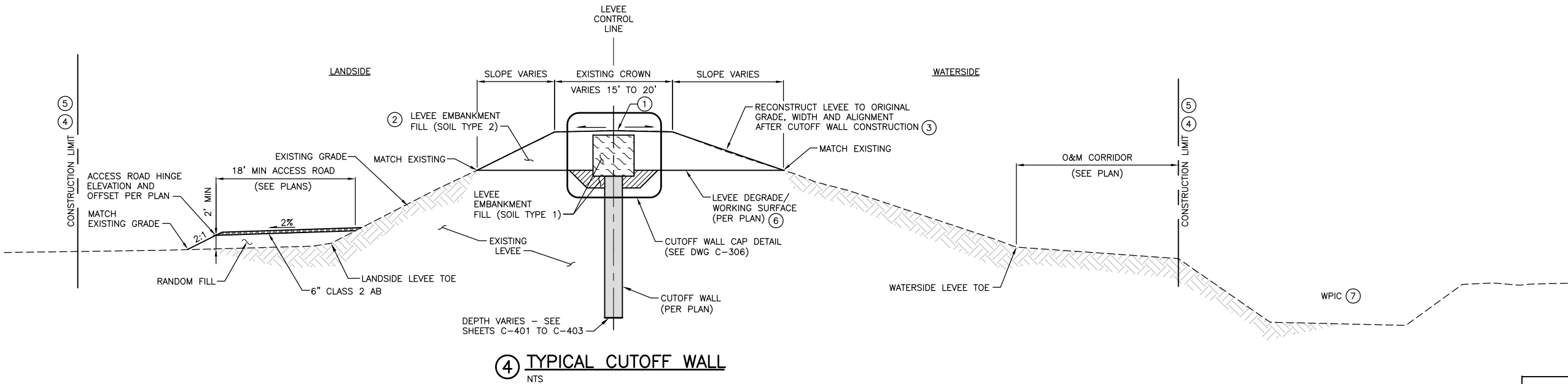
Attachment E – 100% Project Drawings

NOTES:

- CONTRACTOR SHALL SALVAGE EXISTING AGGREGATE BASE IN ACCORDANCE WITH THE SPECIFICATIONS. CROWN RESURFACING PER DETAIL ON SHEET C-305.
- FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- FINISHED GRADE LINES SHOWN DO NOT INCLUDE PLACEMENT OF TOPSOIL. TOPSOIL PLACEMENT SHALL BE PER PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMIT SHOWN ON THESE PLANS.
- CONSTRUCTION LIMIT SHOWN IS TYPICAL. VARIATIONS ARE SHOWN ON THE PLANS. SEE SHEETS G-009 TO G-010 FOR CONSTRUCTION LIMIT LAYOUT.
- CONTRACTOR MAY ADJUST THE WORKING SURFACE ELEVATIONS INDICATED ON THE PLANS AS OUTLINED IN THE SPECIFICATIONS.
- WPIC TO REMAIN. CANAL WILL BE IN OPERATION (WATER MAY BE PRESENT IN THE CANAL) DURING CONSTRUCTION. CONTRACTOR TO PROTECT CANAL IN PLACE AND PROVIDE FENCING CONSISTENT WITH THESE PLANS.



3 LANDSIDE ACCESS ROAD  
NTS



4 TYPICAL CUTOFF WALL  
NTS

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

TYPICAL LEVEE SECTIONS

FILENAME	C-302.dwg
SCALE	AS SHOWN

SHEET	C-302
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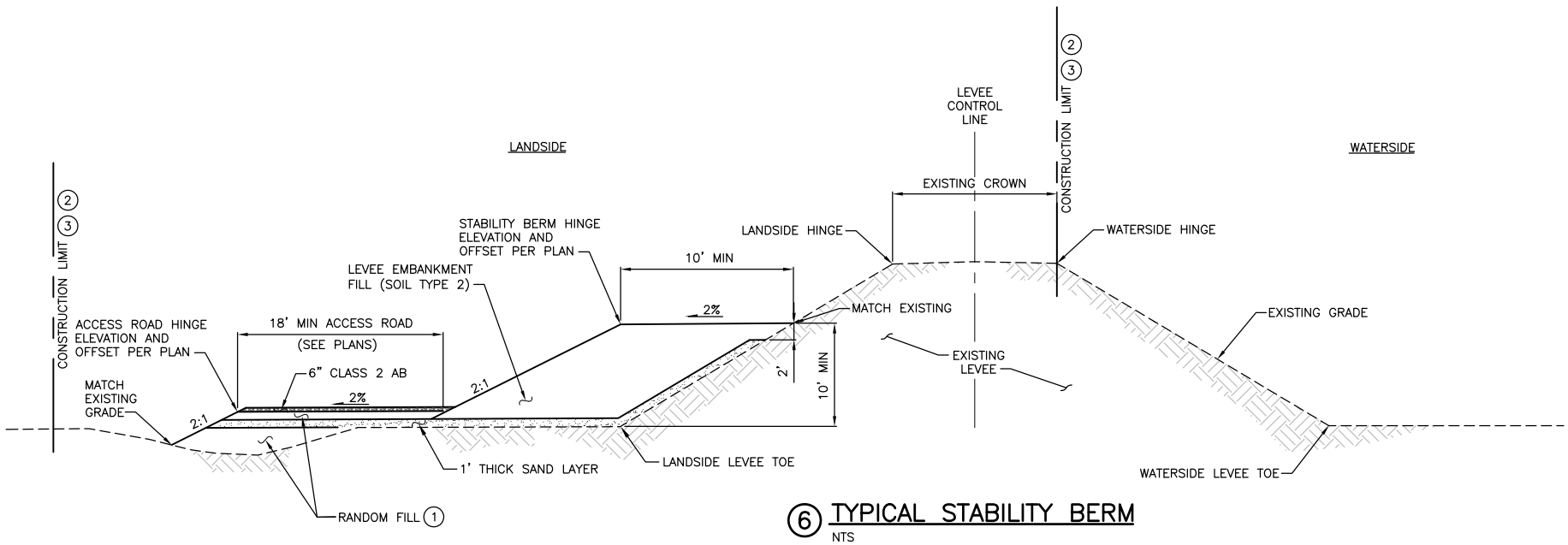
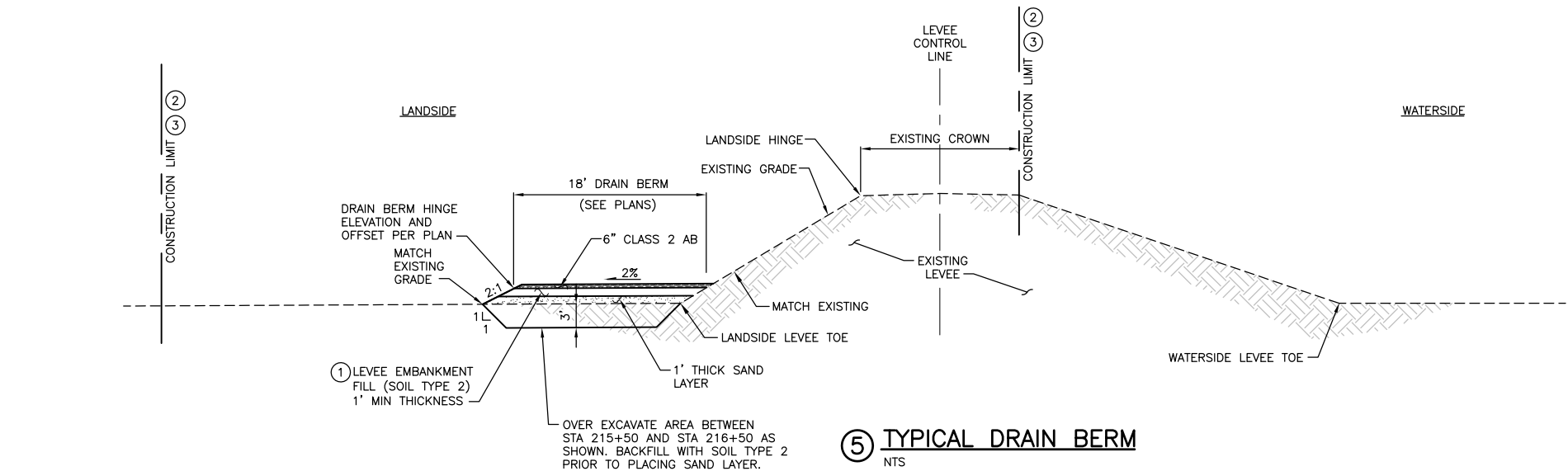
LEGEND:

SAND LAYER

NOTES:

- 1 FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2 CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMIT SHOWN ON THESE PLANS.
- 3 CONSTRUCTION LIMIT SHOWN IS TYPICAL. VARIATIONS ARE SHOWN ON THE PLANS. SEE SHEETS G-009 TO G-010 FOR CONSTRUCTION LIMIT LAYOUT.

Attachment E – 100% Project Drawings

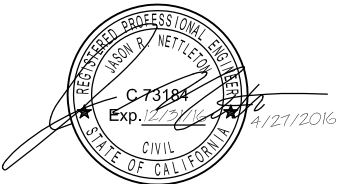


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

TYPICAL LEVEE SECTIONS

FILENAME	C-303.dwg
SCALE	AS SHOWN

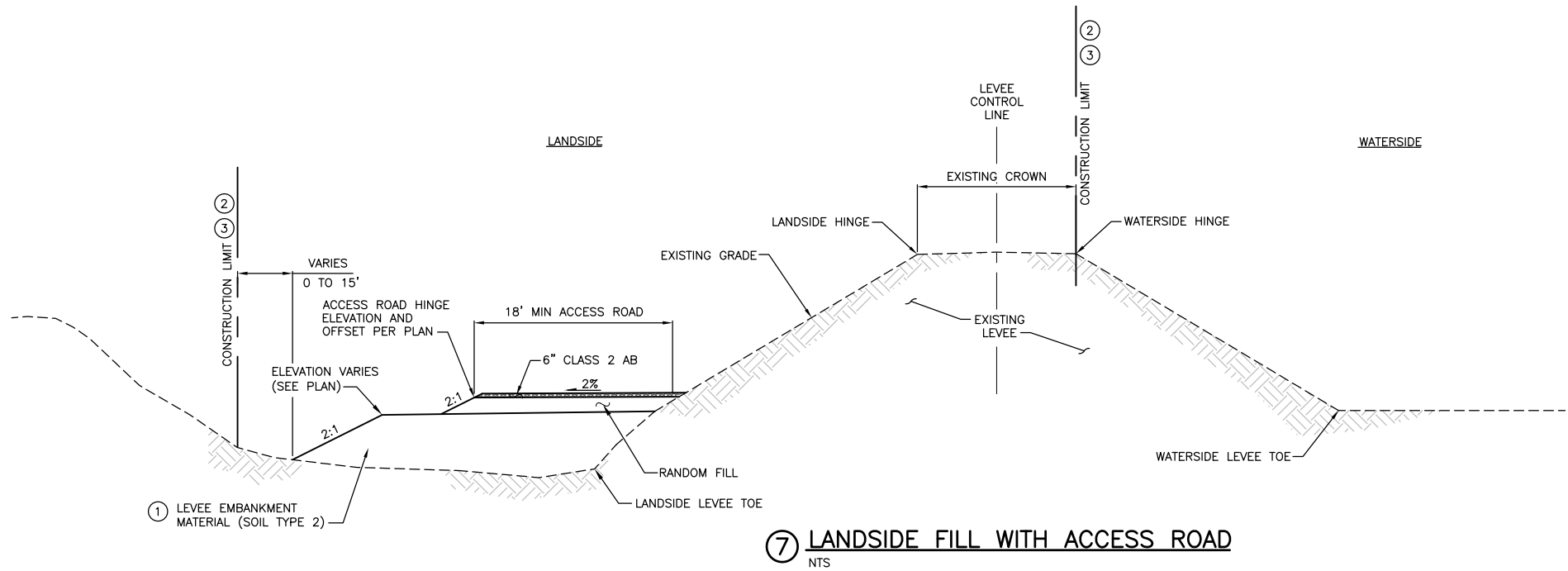
SHEET
C-303



Attachment E – 100% Project Drawings

NOTES:

- ① FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- ② CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMIT SHOWN ON THESE PLANS.
- ③ CONSTRUCTION LIMIT SHOWN IS TYPICAL. VARIATIONS ARE SHOWN ON THE PLANS. SEE SHEETS G-009 TO G-010 FOR CONSTRUCTION LIMIT LAYOUT.



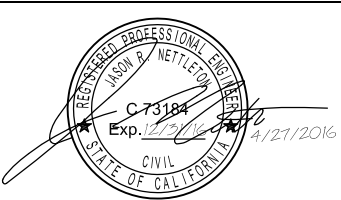
⑦ LANDSIDE FILL WITH ACCESS ROAD  
NTS

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

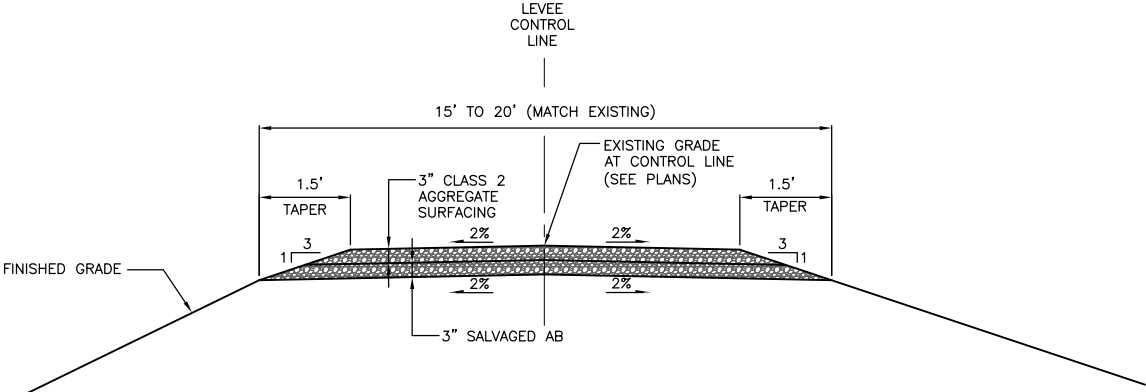
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

TYPICAL LEVEE SECTIONS

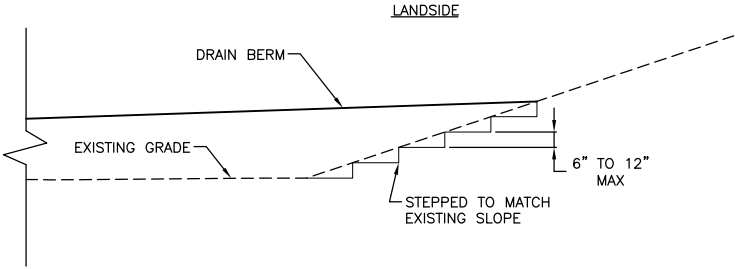
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SCALE	AS SHOWN

SHEET
C-304



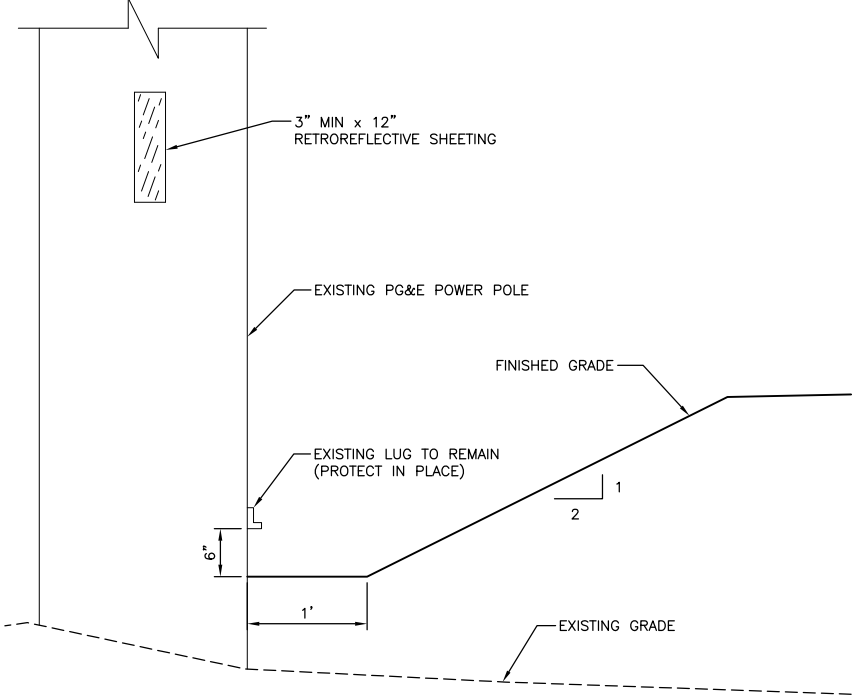


**CROWN SURFACING DETAIL (TYP)**  
NTS

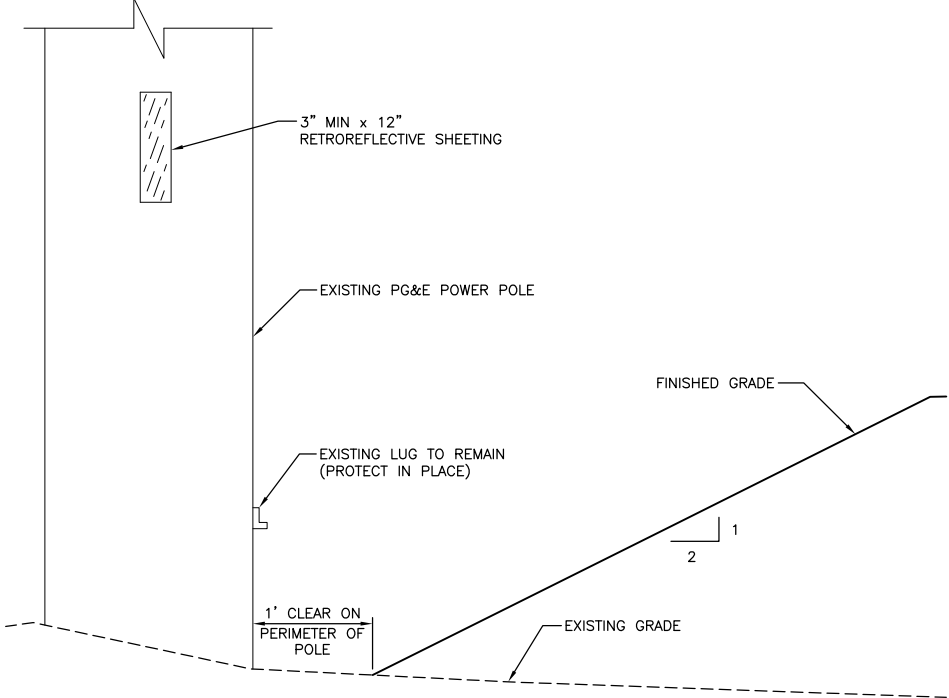


**FILL KEY AND BENCHING DETAIL**  
NTS

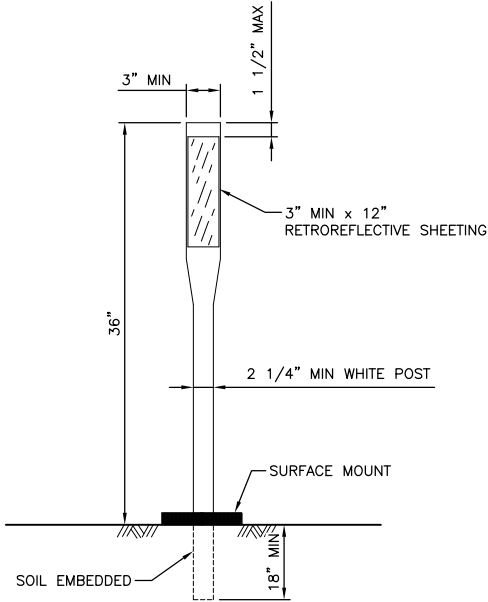
TYPICAL KEY & BENCHING NOTES:  
1. PLACE FILL IN HORIZONTAL LIFTS AGAINST VERTICAL FACES CUT INTO EXISTING LEVEE MATERIAL.



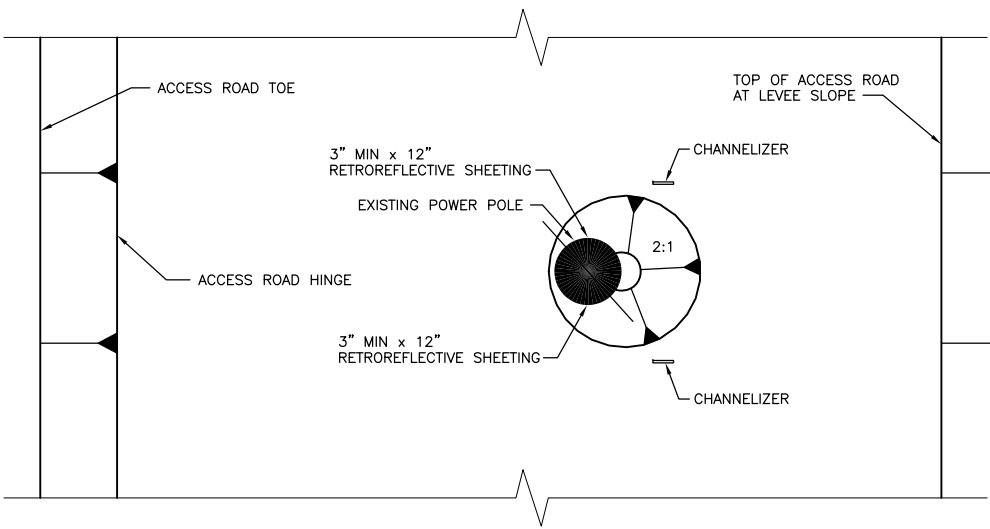
**1 GRADING AT POWER POLE LUG**  
NTS



**2 GRADING AT POWER POLE**  
NTS

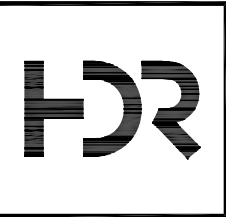


**CHANNELIZERS**  
NTS



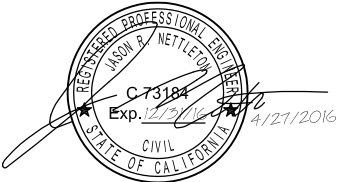
**3 PLAN**  
NTS

FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

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WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

TYPICAL LEVEE DETAILS

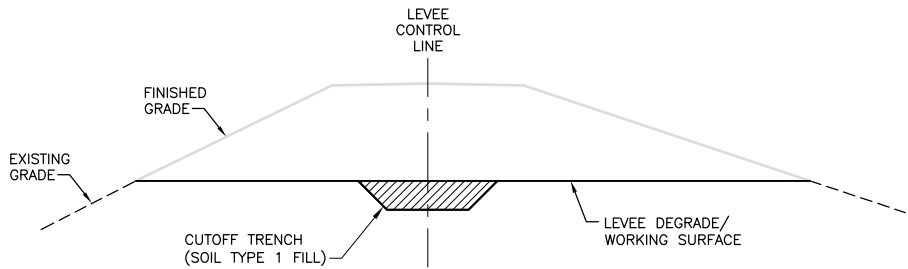
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SCALE	AS SHOWN

SHEET
C-305

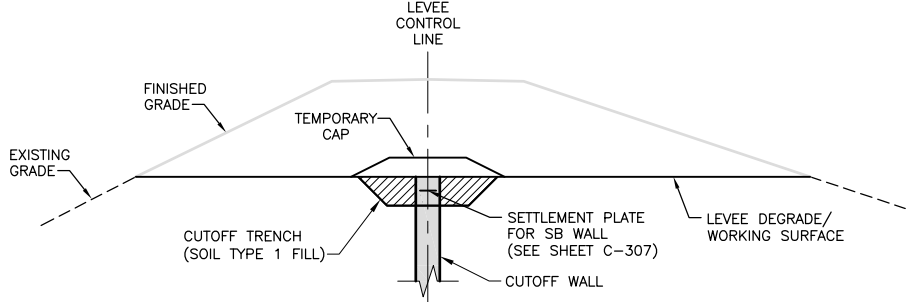


TYPICAL CUTOFF WALL CONSTRUCTION SEQUENCE

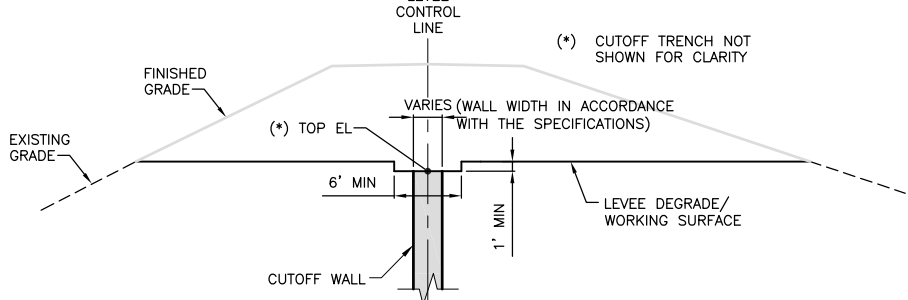
STEP 1



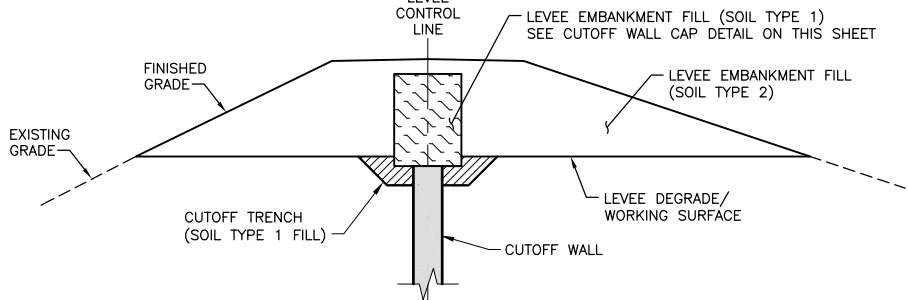
STEP 2



STEP 3

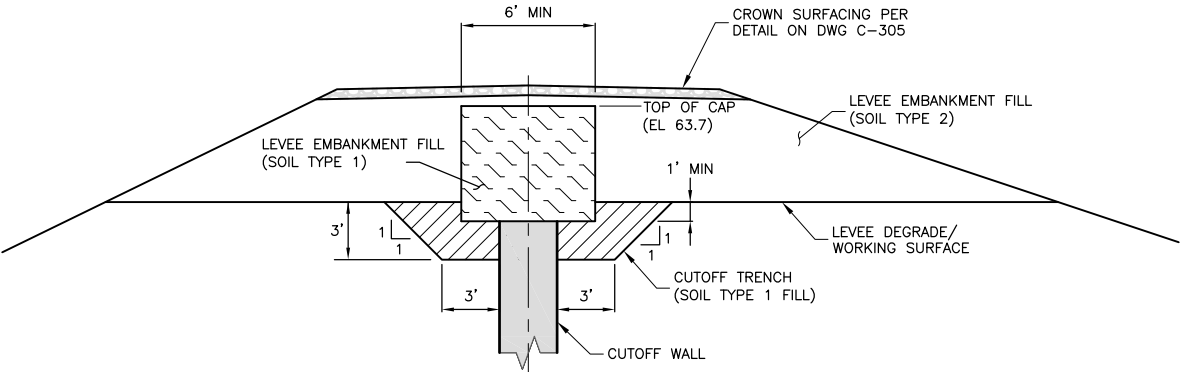


STEP 4

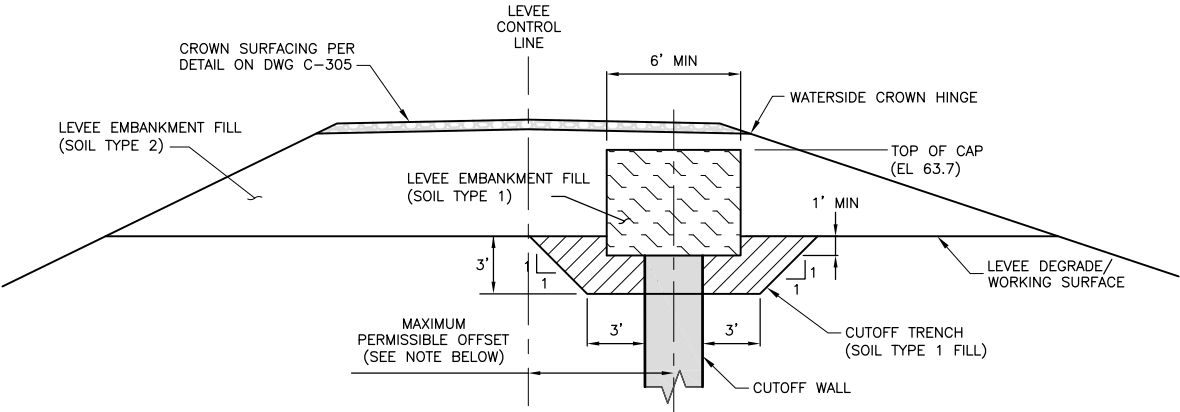


CONSTRUCTION SEQUENCE:

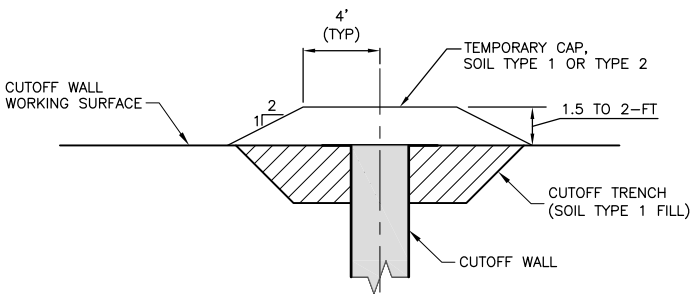
- STEP 1: DEGRADE LEVEE TO ESTABLISH WORKING SURFACE THEN EXCAVATE CUTOFF TRENCH AND FILL WITH TYPE 1 SOIL.
- STEP 2: CONSTRUCT CUTOFF WALL.
- o INSTALL SETTLEMENT PLATES AS INDICATED IN THE PROJECT SPECIFICATIONS.
  - o PLACE TEMPORARY CAP.
  - o MONITOR SETTLEMENT PLATE PER THE SPECIFICATIONS.
- STEP 3: AFTER APPROVAL BY THE AGENCY, REMOVE TEMPORARY CAP AND EXCAVATE CUTOFF WALL TO A MINIMUM DEPTH OF 1.0 FT BELOW WORKING SURFACE.
- o REMOVE SETTLEMENT PLATE.
  - o CONFIRM THAT EXCAVATION EXTENDS INTO ACCEPTABLE CUTOFF WALL MATERIAL AS DETERMINED BY THE ENGINEER.
  - o PLACE SOIL TYPE 1 FILL MATERIAL IN THE EXCAVATION IN ACCORDANCE WITH THE SPECIFICATIONS.
- STEP 4: RECONSTRUCT LEVEE EMBANKMENT IN ACCORDANCE WITH SECTION 31 00 00 OF THE PROJECT SPECIFICATIONS.



CUTOFF TRENCH AND CUTOFF WALL CAP DETAIL  
NTS



CUTOFF TRENCH AND CUTOFF WALL OFFSET DETAIL  
NTS



TEMPORARY CAP DETAIL  
NTS

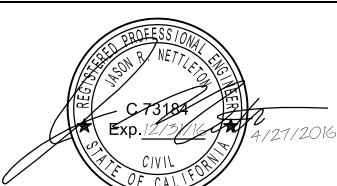
**CUTOFF WALL OFFSET NOTE**  
THE CONTRACTOR MAY ELECT TO SHIFT THE CUTOFF WALL ALIGNMENT TOWARD THE WATERSIDE OF THE LEVEE FOR IMPROVED CONSTRUCTIBILITY. THE MAXIMUM PERMISSIBLE OFFSET SHALL BE SUCH THAT THE CUTOFF WALL AND ENTIRE CUTOFF WALL CAP DO NOT EXTEND BEYOND THE WATERSIDE CROWN HINGE. THE CUTOFF TRENCH AND THE CUTOFF WALL CAP SHALL BE CENTERED ON THE CUTOFF WALL. THE CUTOFF WALL SHALL NOT BE CONSTRUCTED CLOSER THAN 5-FT FROM STRUCTURES.

FOR BID



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PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

CUTOFF WALL DETAILS

FILENAME	C-306.dwg
SCALE	AS SHOWN

SHEET	C-306
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- D

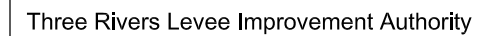


**Δ**

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DATE	4/27/2016



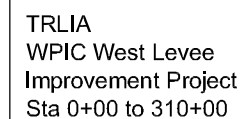
## SETTLEMENT PLATE DETAILS

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SCALE	AS SHOWN	



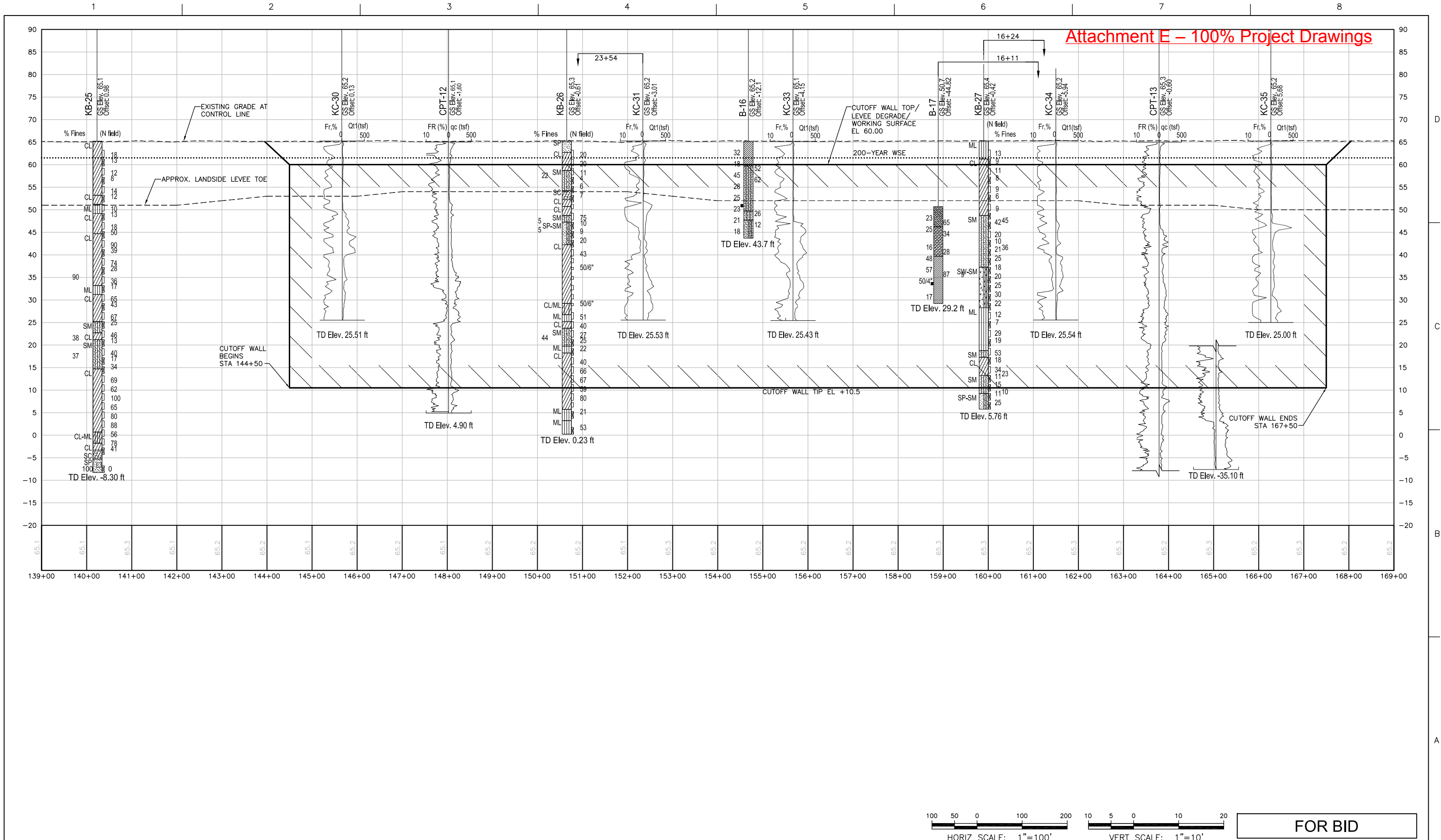




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TECHNICAL LEAD	D. JABBOUR
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FILENAME	C-401.dwg	SHEET  <b>C-401</b>
SCALE	AS SHOWN	








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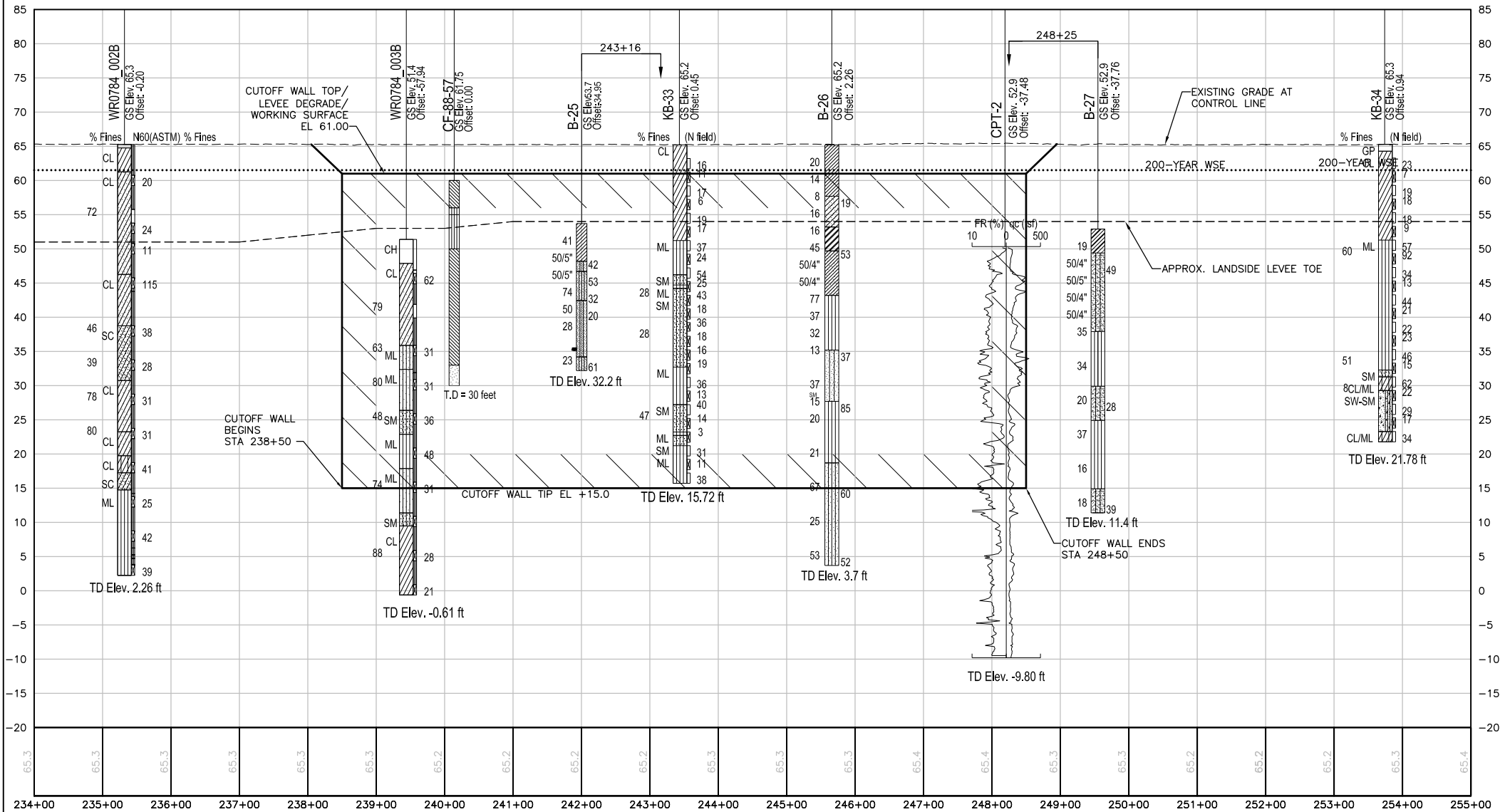
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

CUTOFF WALL SUBSURFACE PROFILE  
STA: 144+50 TO 167+50

FILENAME	C-402.dwg	SHEET
SCALE	AS SHOWN	C-402





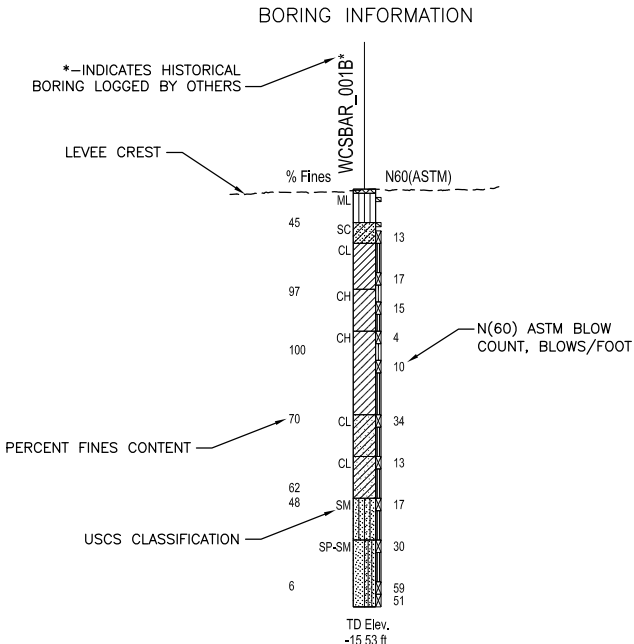
# Attachment E – 100% Project Drawings

## GROUP SYMBOLS AND NAMES

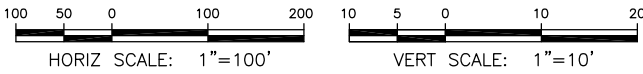
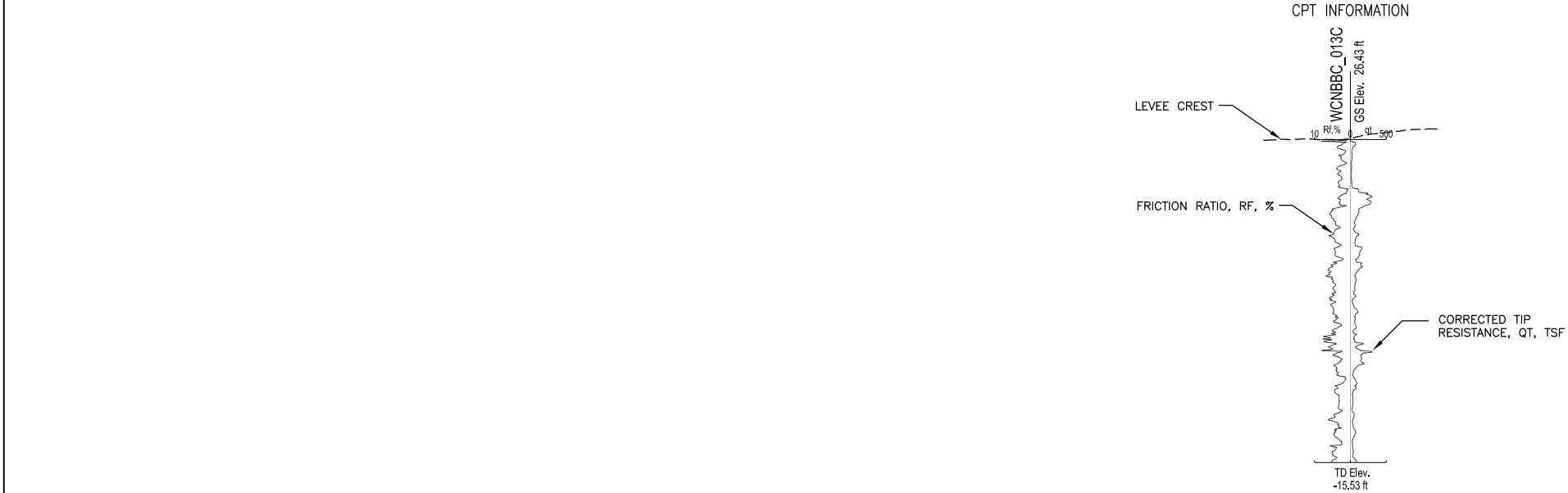
GRAPHIC	GROUP NAMES	GRAPHIC	GROUP NAMES	GRAPHIC	GROUP NAMES
	LEAN CLAY (CL)		LEAN CLAY WITH SAND (CL)		SANDY LEAN CLAY (CL)
	FAT CLAY (CH)		FAT CLAY WITH SAND (CH)		SANDY FAT CLAY (CH)
	SILTY CLAY (CL-ML)		SILT (ML)		SILT WITH SAND (ML)
	SANDY SILT (ML)		ELASTIC SILT (MH)		ELASTIC SILT WITH SAND (MH)
	SANDY ELASTIC SILT (MH)		POORLY GRADED SAND (SP)		POORLY GRADED SAND WITH CLAY (SP-SC)
	POORLY GRADED SAND WITH SILT (SP-SM)		CLAYEY SAND (SC)		SILTY SAND (SM)
	CLAYEY GRAVEL WITH SAND (GC)				

NOTE: SOILS WERE CLASSIFIED IN THE FIELD IN GENERAL ACCORDANCE WITH ATM D2488-06, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL MANUAL PROCEDURE). WHERE LABORATORY TESTING WAS PERFORMED, CLASSIFICATIONS WERE MODIFIED IN GENERAL ACCORDANCE WITH ASTM D2487-06, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM).

BORDERLINE SYMBOLS, TWO GROUP SYMBOLS SEPARATED BY A SLASH, MAY BE USED IN FIELD VISUAL CLASSIFICATION WHEN (1) PERCENTAGE OF FINES IS ESTIMATED TO BE BETWEEN 45% AND 55%, (2) PERCENTAGES OF SAND AND GRAVEL ARE ESTIMATED TO BE ABOUT THE SAME, (3) SOIL COULD BE EITHER WELL GRADED OR POORLY GRADED, (4) SOIL COULD BE EITHER A SILT OR A CLAY, OR (5) FINE-GRAINED SOIL HAS PROPERTIES INDICATING THAT IT IS AT THE BOUNDARY BETWEEN LOW AND HIGH PLASTICITY. REFER TO DWR SOIL AND ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL FOR GUIDELINES IN THE USE OF BORDERLINE SYMBOLS.



- NOTES:
- BORING LOGS AND CONE PENETRATION TESTS PROVIDED BY:  
HDR - BORING (2013)  
KLEINFELDER - BORING (2003, 2004)  
URS - BORING (2010)  
USACE - BORING (1988)  
HDR - CPT (2012, 2013)  
KLEINFELDER - CPT (2003, 2004)  
USACE - CPT (1988)  
REFER TO GEOTECHNICAL DATA REPORT WESTERN PACIFIC INTERCEPTOR CANAL WEST LEVEE AND BEAR RIVER NORTH LEVEE FOR ADDITIONAL INFORMATION.
  - COBBLES MAY BE PRESENT IN GRAVEL LAYERS.



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Three Rivers Levee Improvement Authority

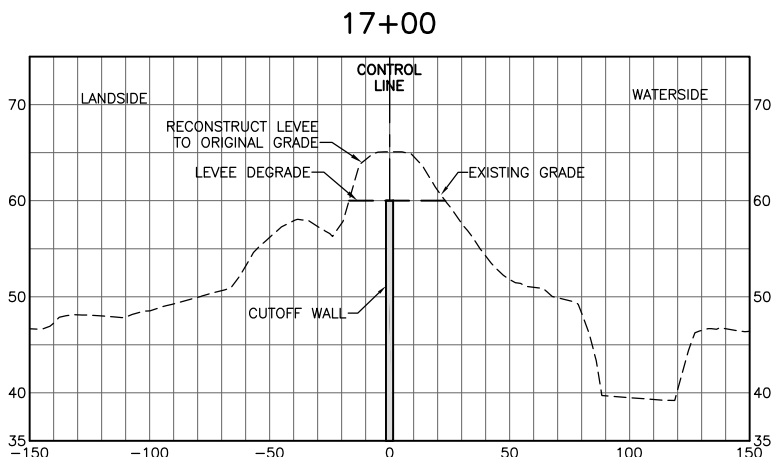
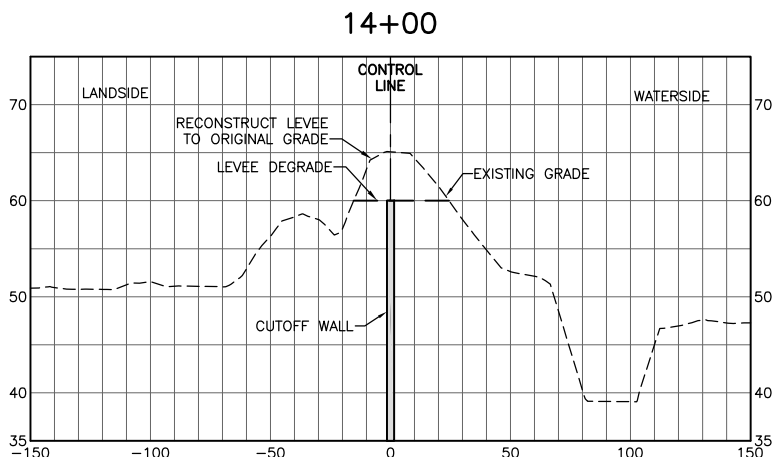
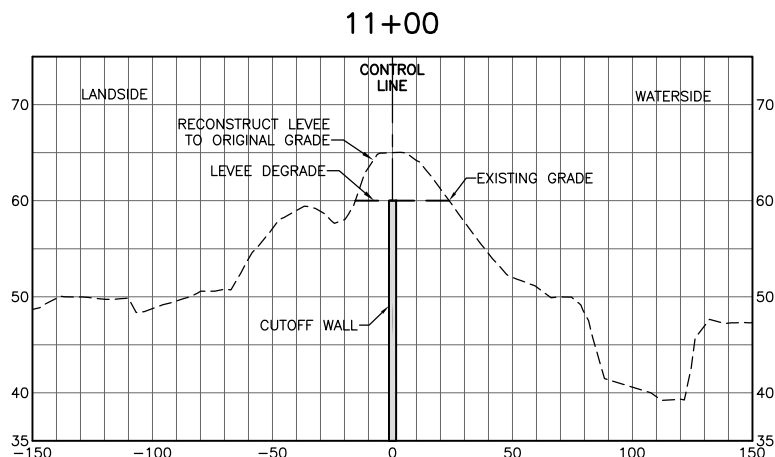
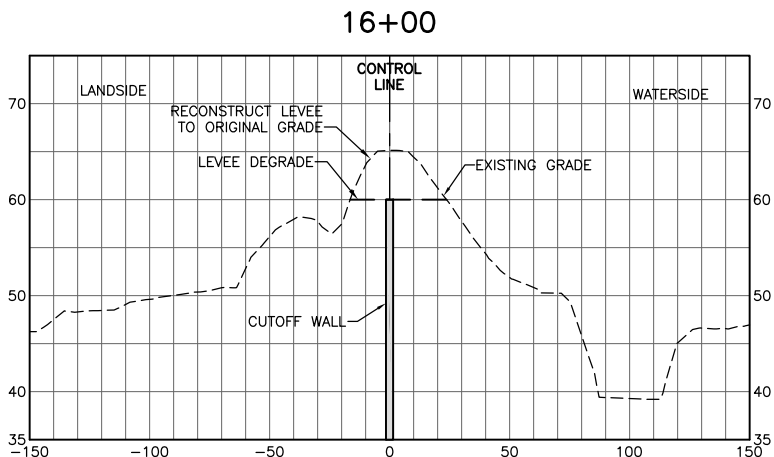
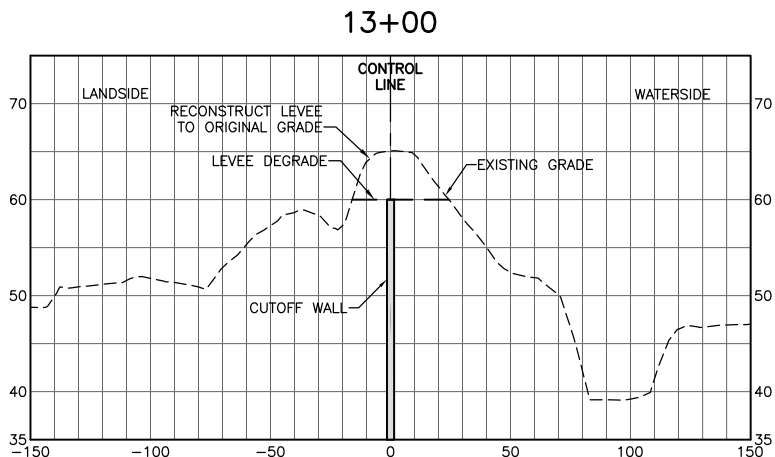
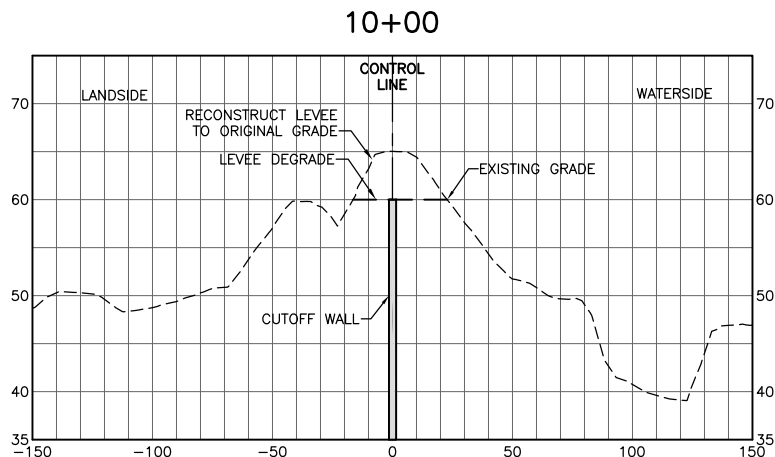
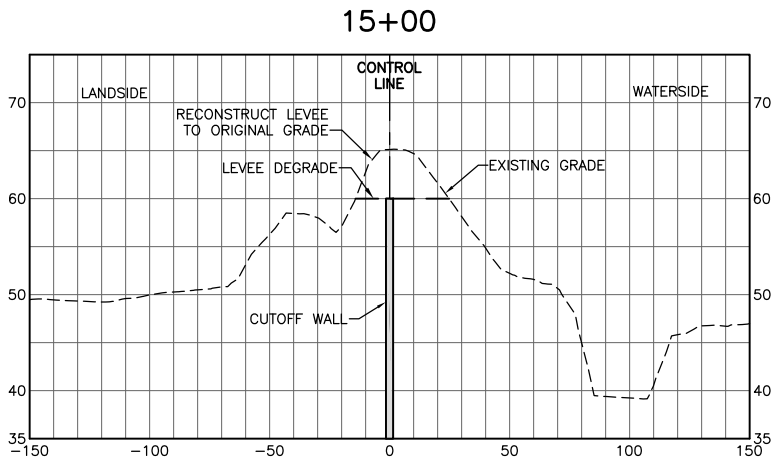
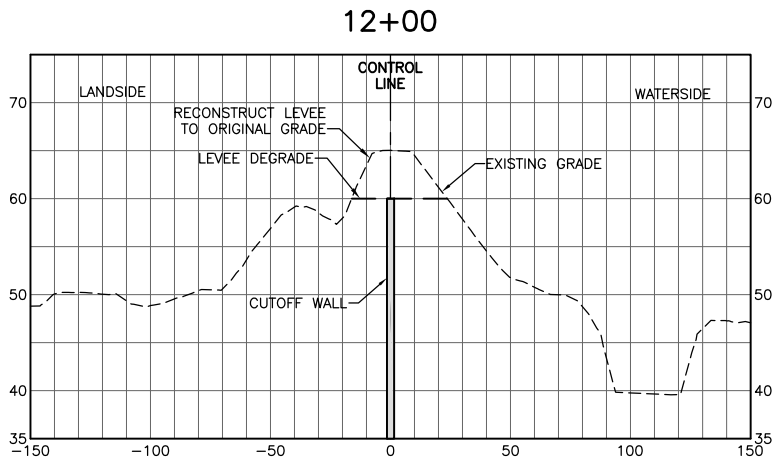
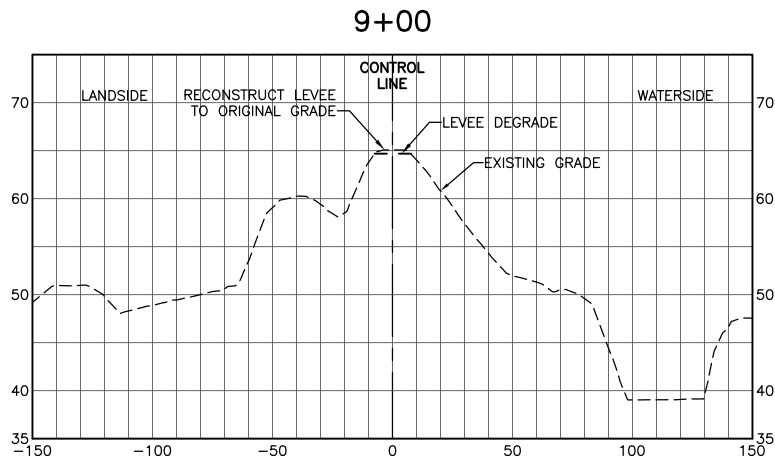
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

CUTOFF WALL SUBSURFACE PROFILE  
STA: 238+50 TO 248+50

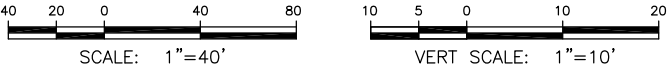
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SCALE	AS SHOWN	C-403



NO LEVEE WORK  
STA 0+00 TO 8+00



NOTE:  
SEE SHEET C-401 FOR CUTOFF WALL TIP ELEVATION

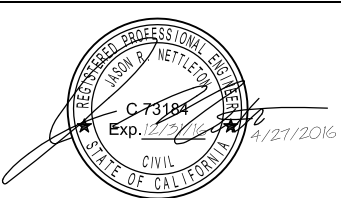


FOR BID



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PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



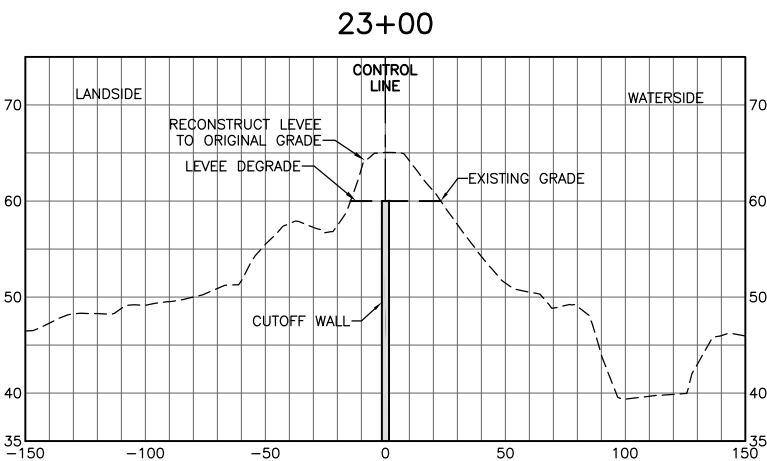
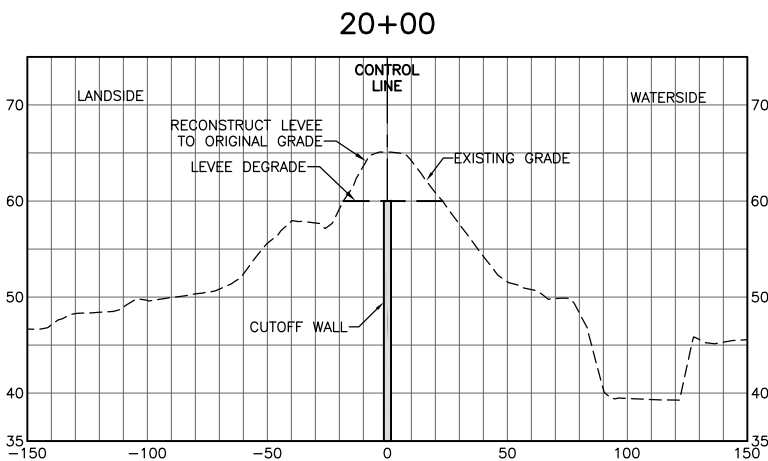
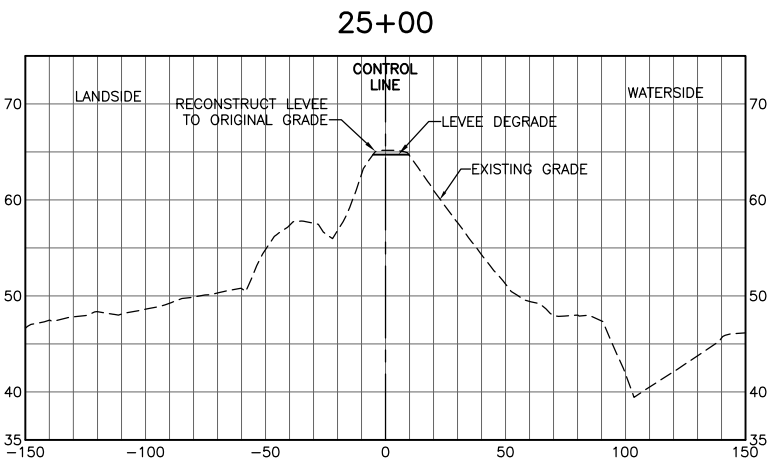
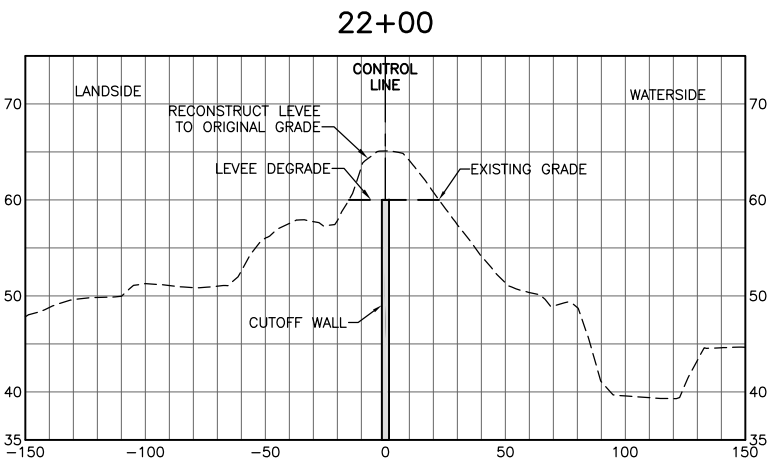
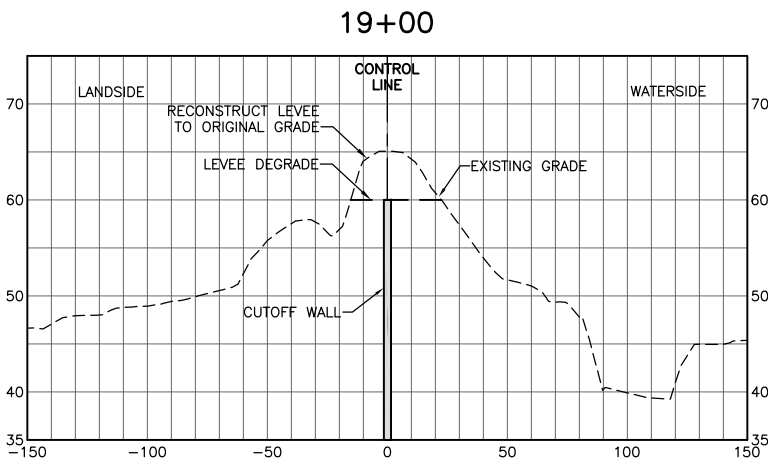
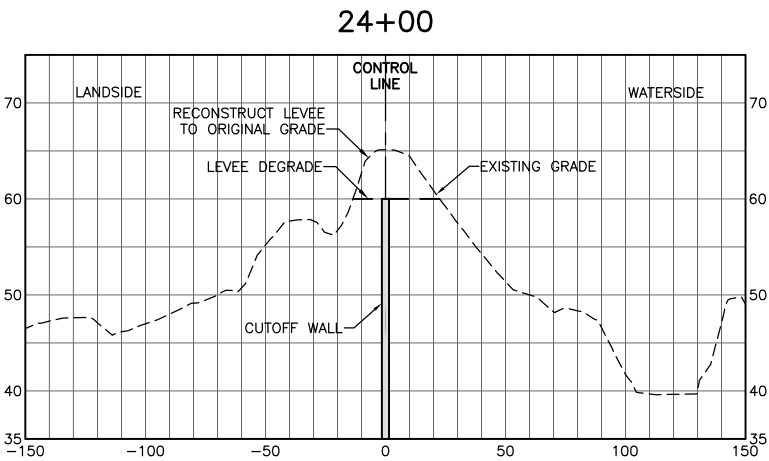
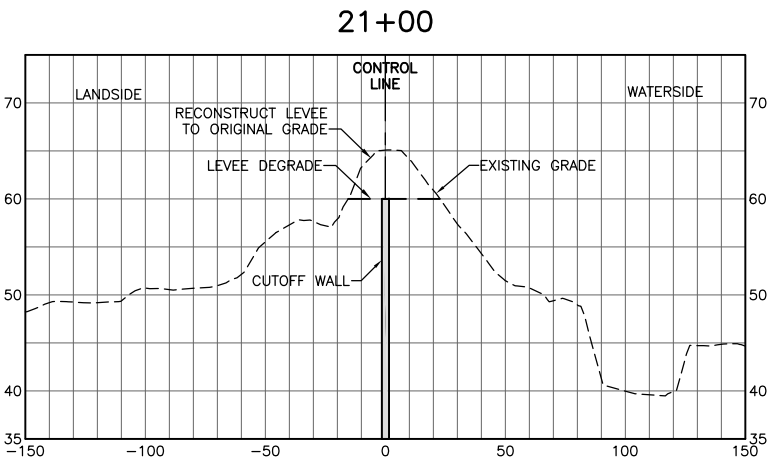
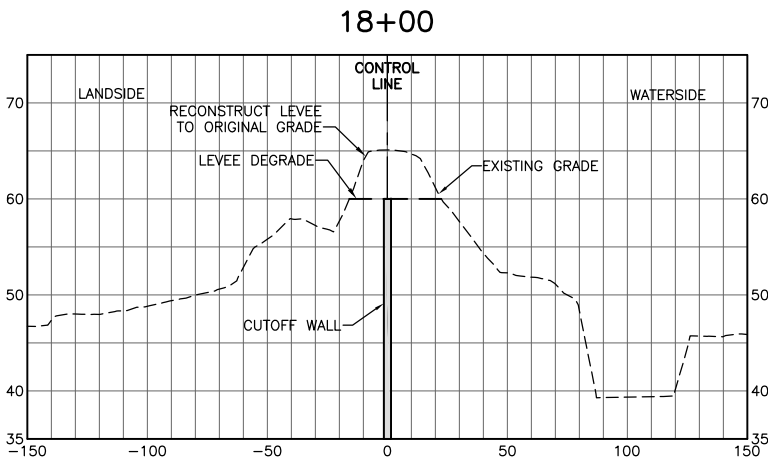
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 9+00 TO 17+00

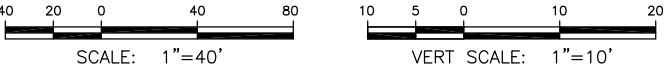
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SCALE		C-601





NO LEVEE WORK  
STA 26+00 TO 114+00

NOTE:  
SEE SHEET C-401 FOR CUTOFF WALL TIP ELEVATION



FOR BID



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PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

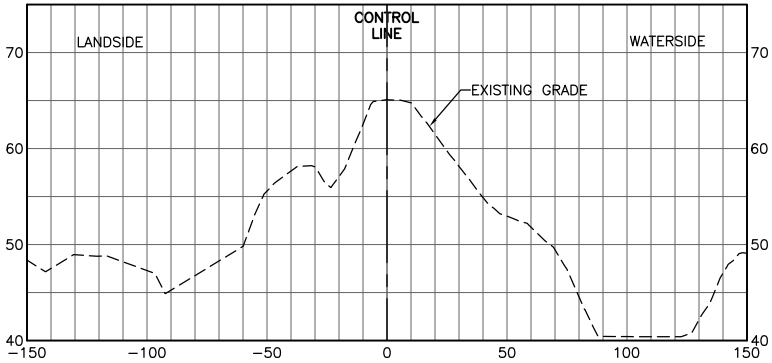
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 18+00 TO 25+00

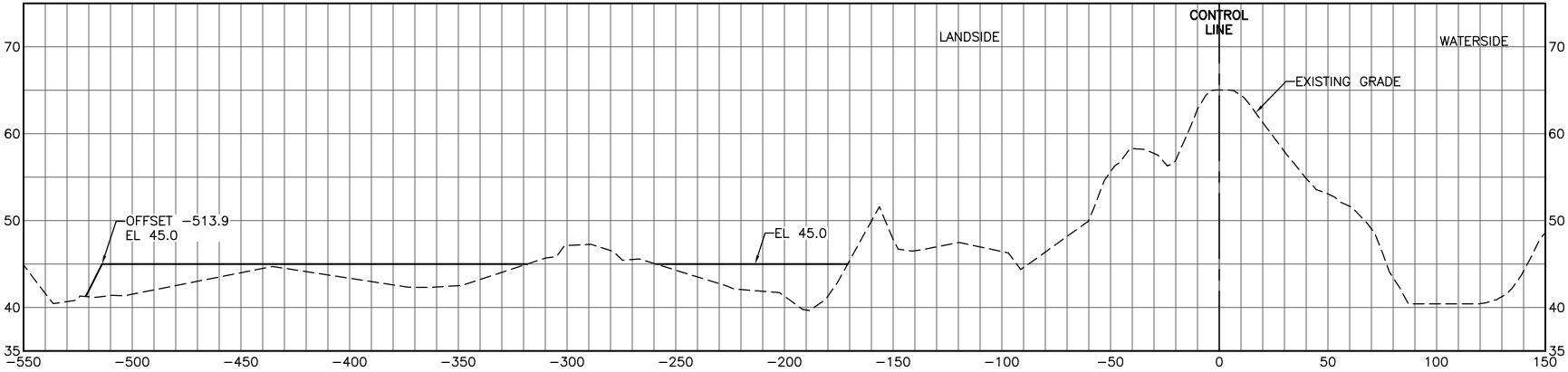
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SCALE		C-602



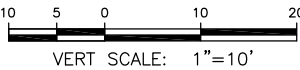
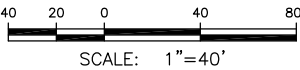
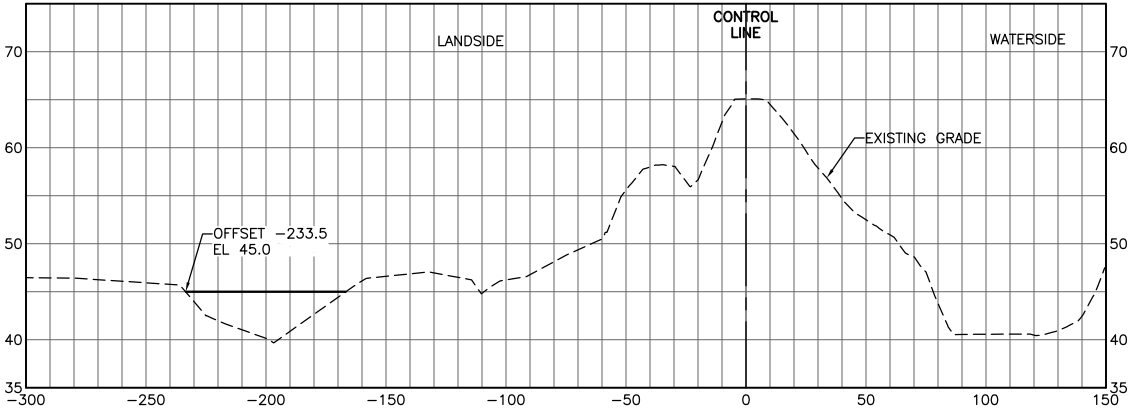
115+00



116+00



117+00

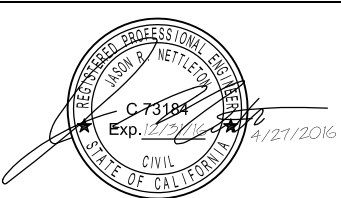


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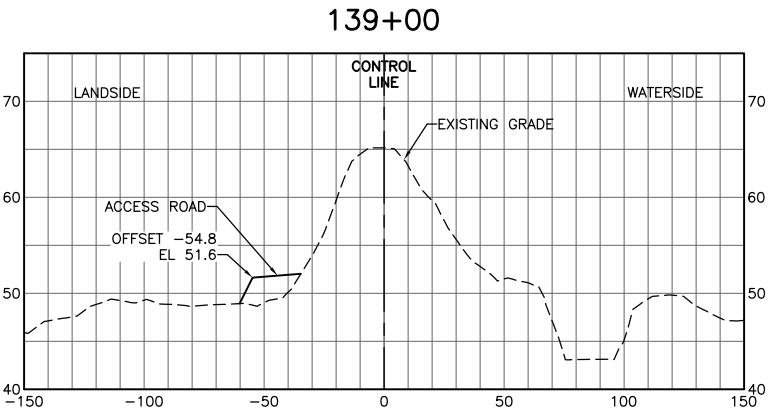
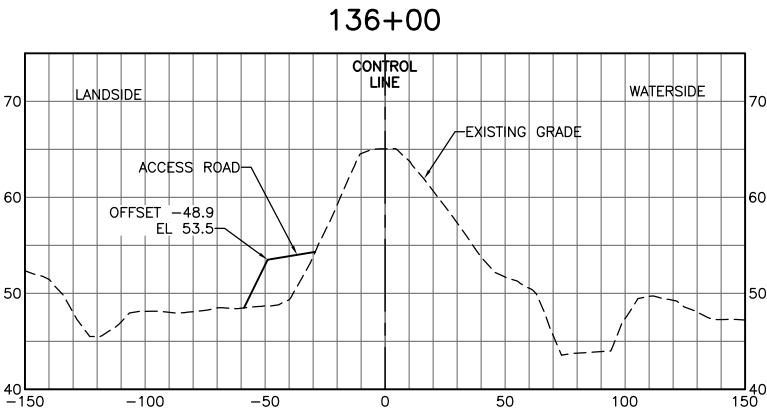
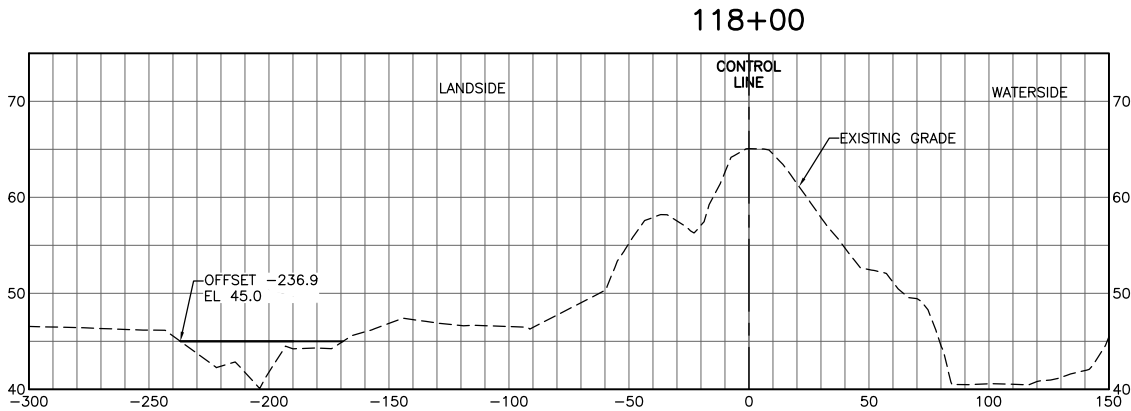


Three Rivers Levee Improvement Authority

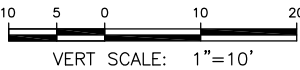
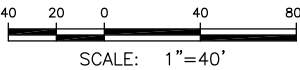
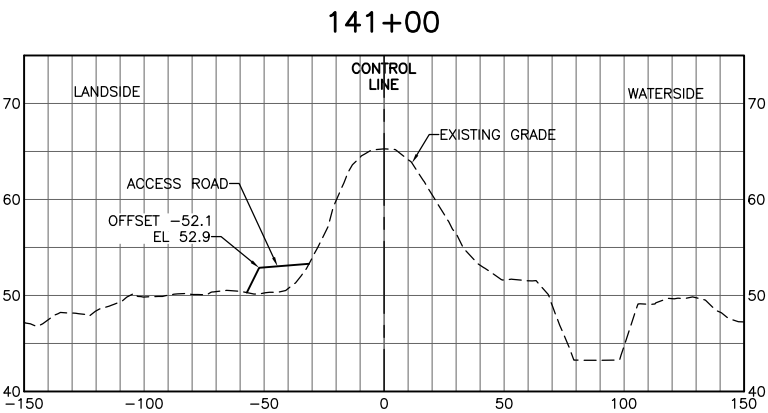
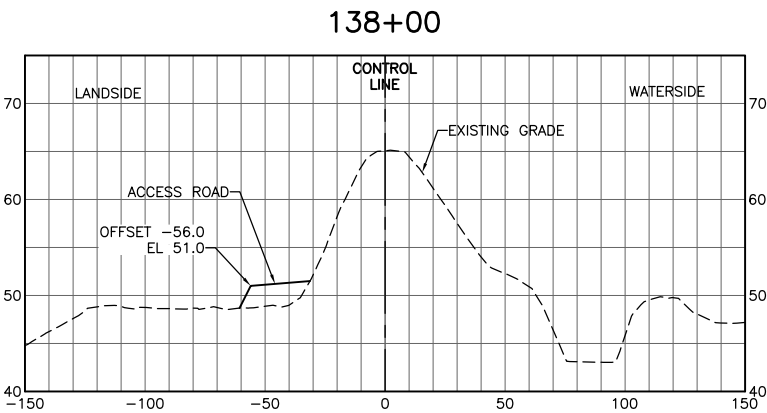
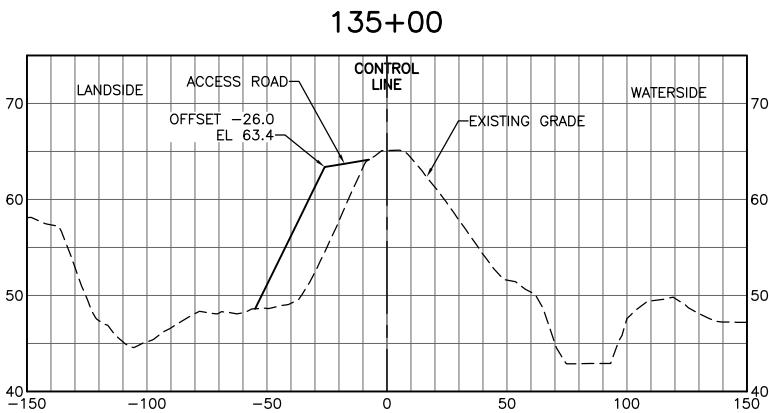
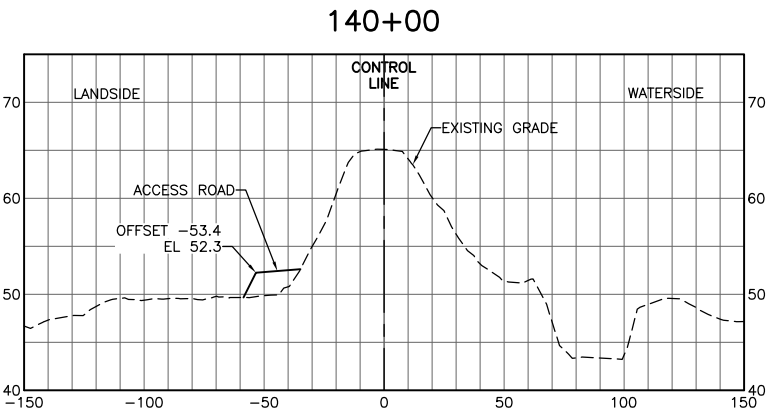
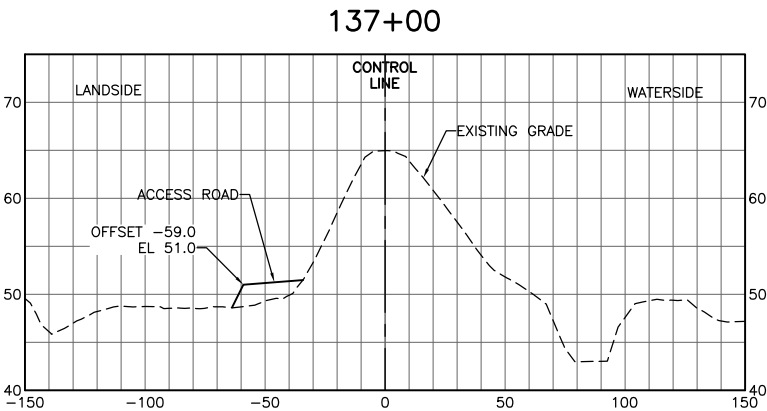
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS STA 115+00 TO 117+00		
FILENAME	C-603.dwg	SHEET
SCALE		C-603





NO LEVEE WORK  
STA 119+00 TO 134+00

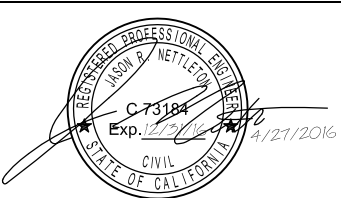


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CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

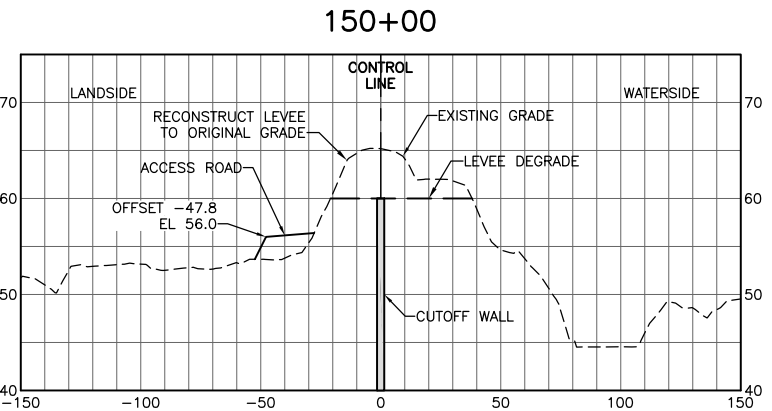
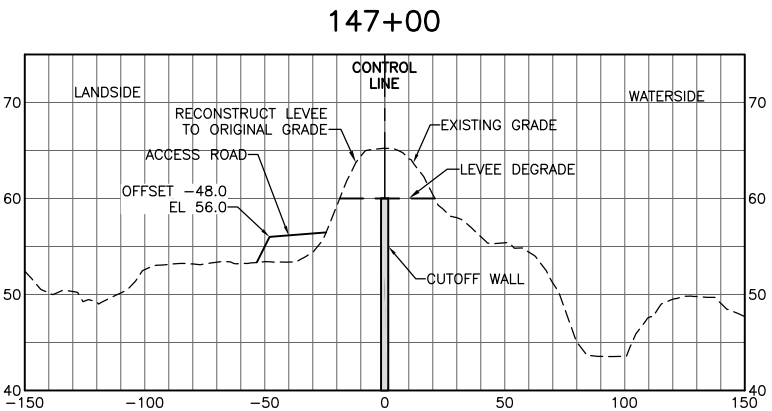
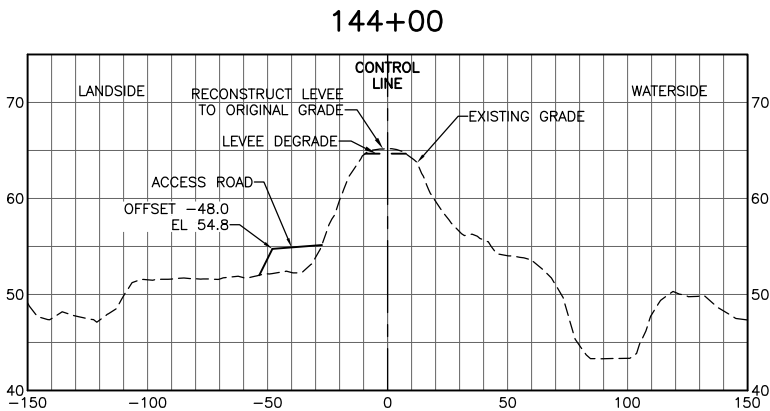
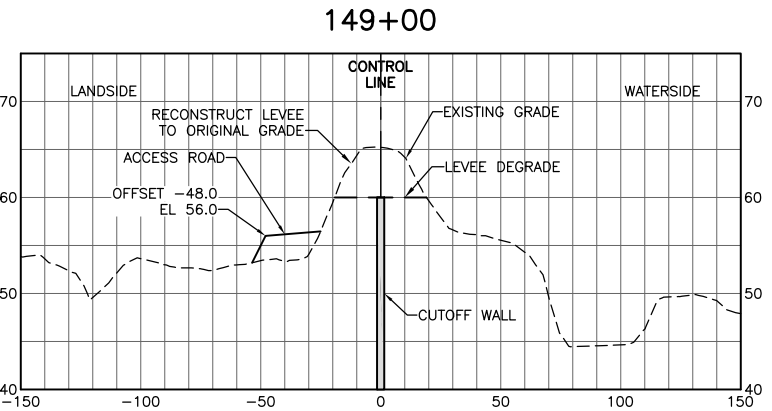
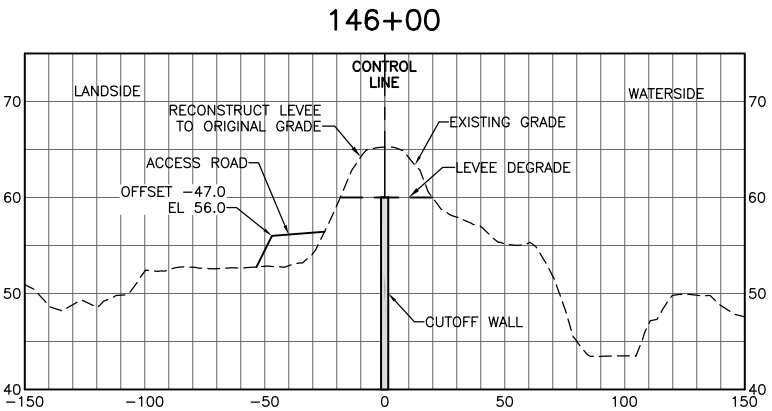
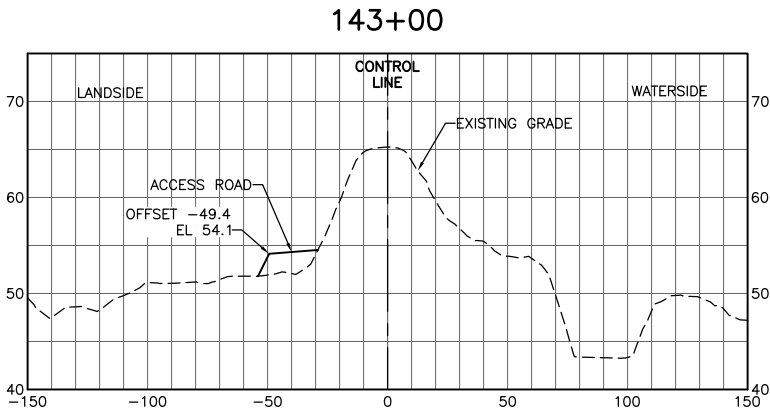
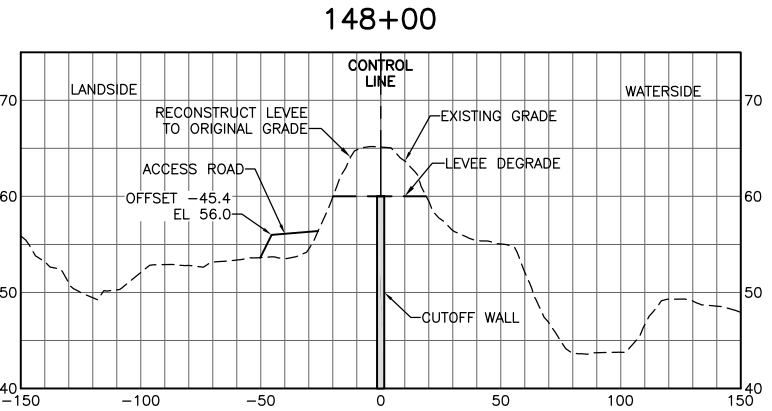
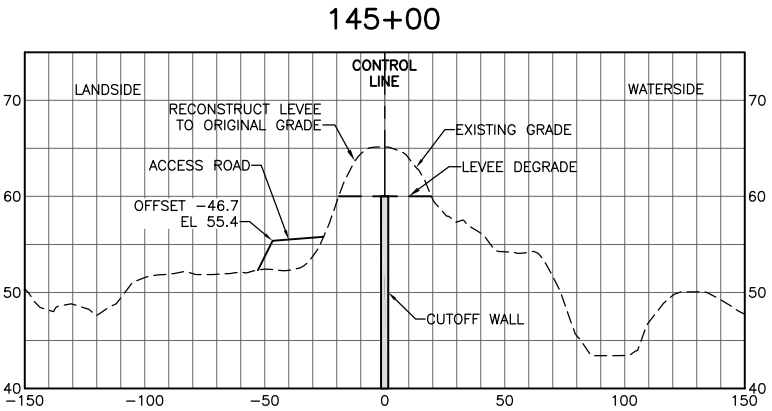
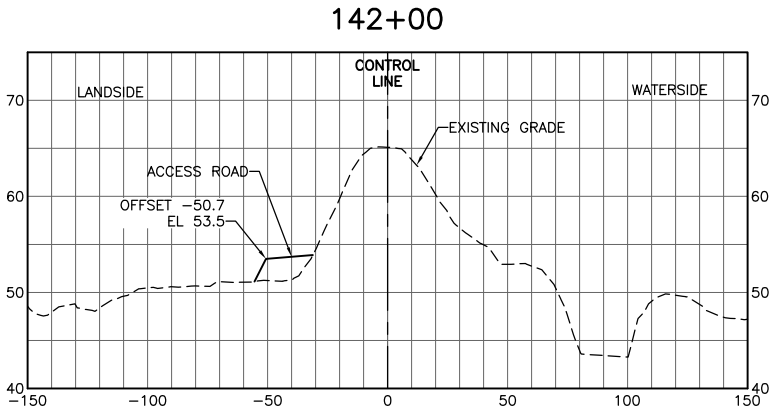
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 118+00 TO 141+00

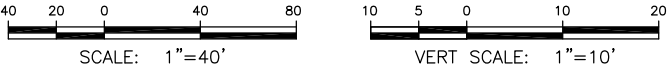
FILENAME	C-604.dwg
SCALE	

SHEET
C-604





NOTE:  
SEE SHEET C-402 FOR CUTOFF WALL TIP ELEVATION

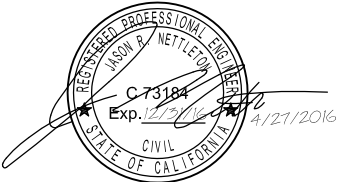


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



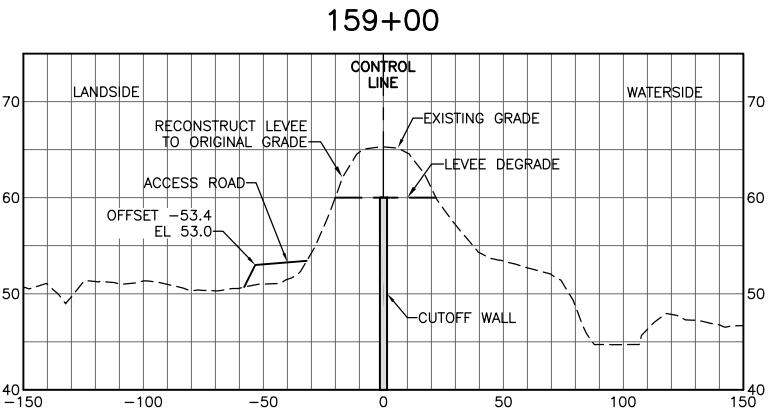
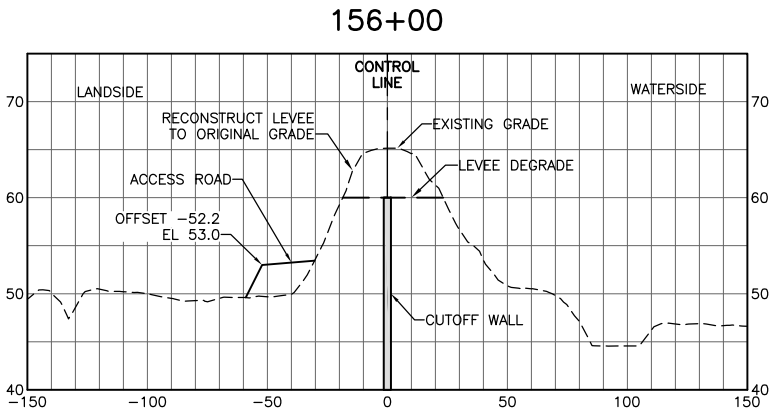
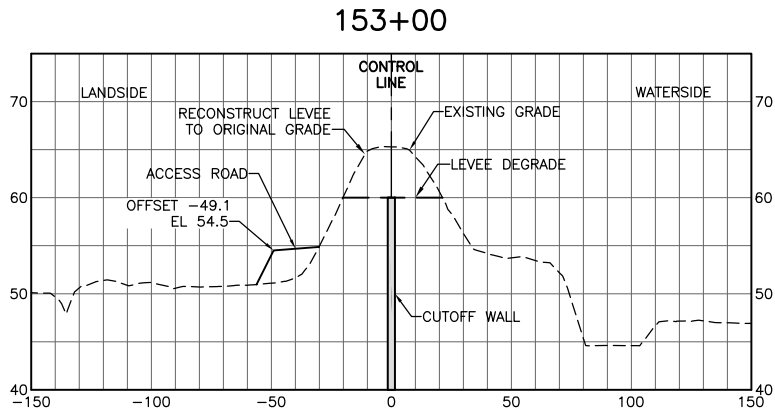
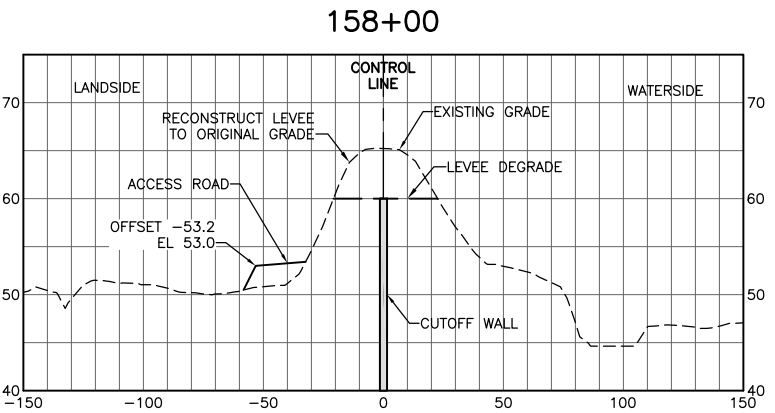
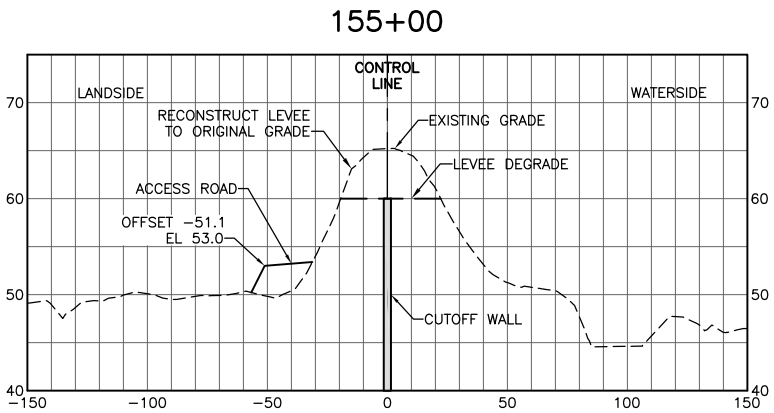
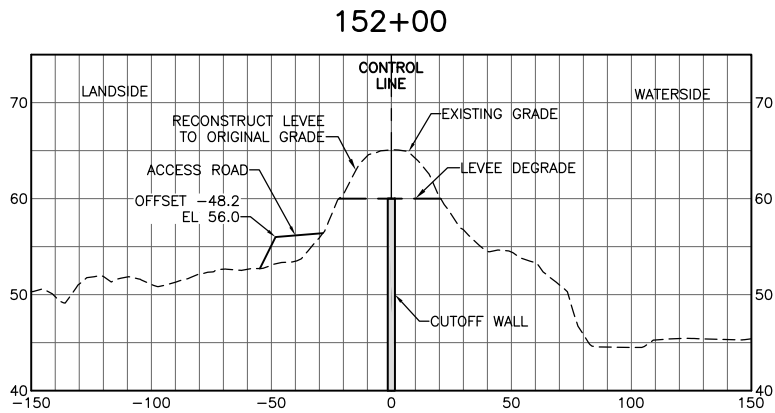
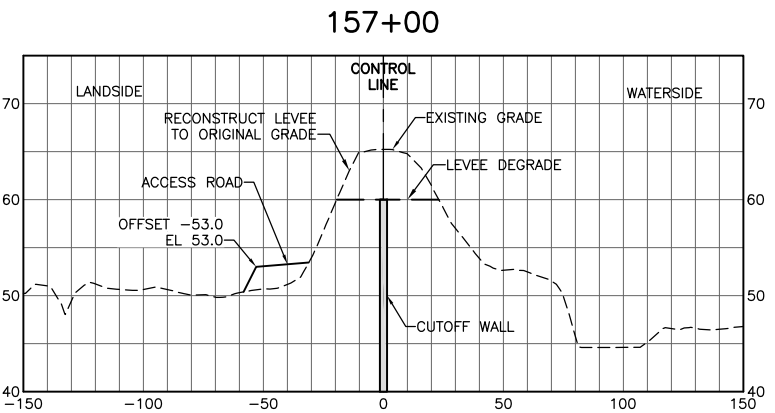
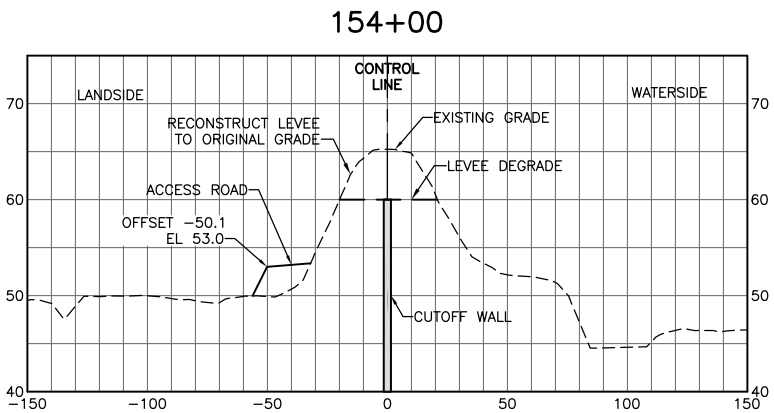
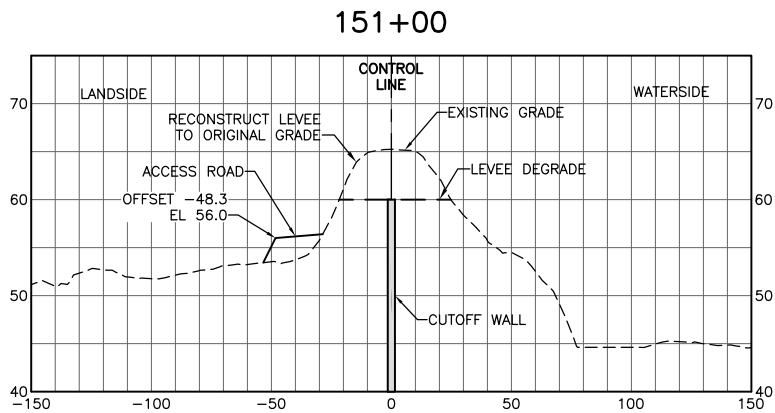
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

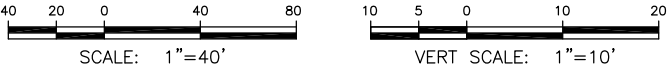
LEVEE CROSS SECTIONS  
STA 142+00 TO 150+00

FILENAME	C-605.dwg	SHEET
SCALE		C-605





NOTE:  
SEE SHEET C-402 FOR CUTOFF WALL TIP ELEVATION



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



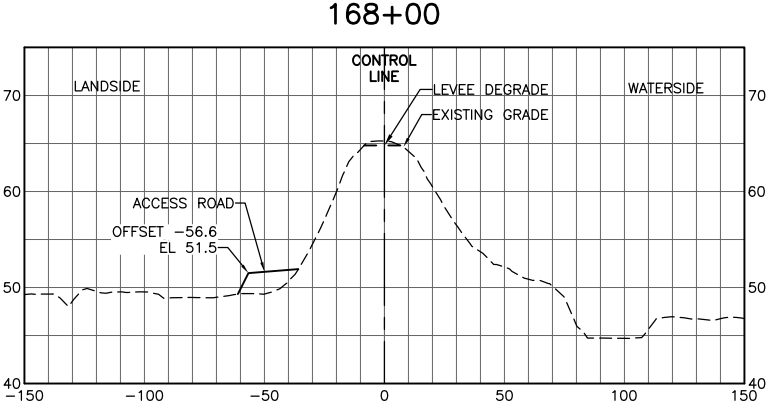
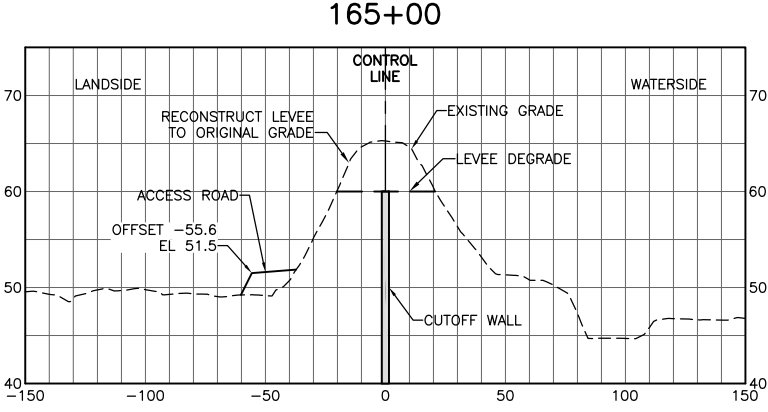
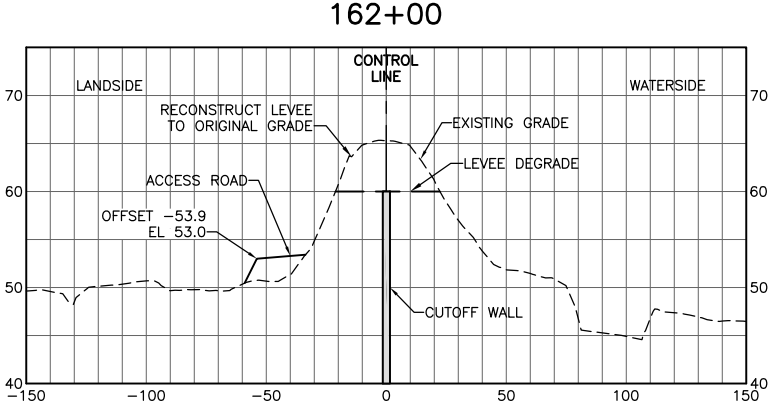
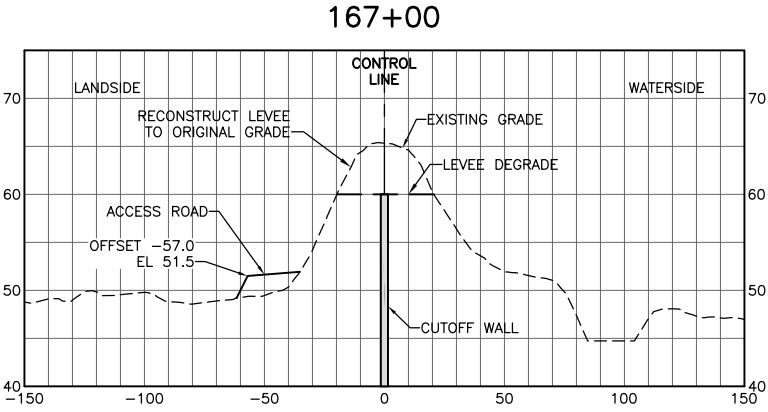
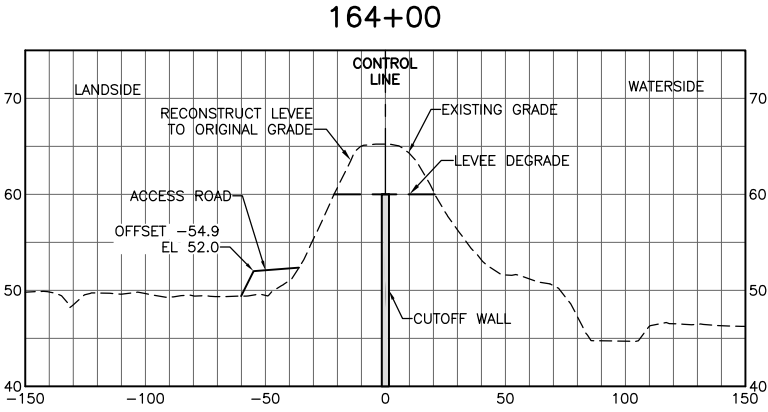
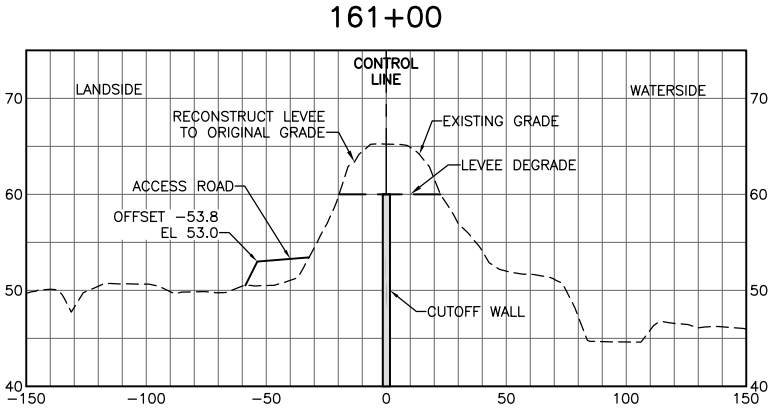
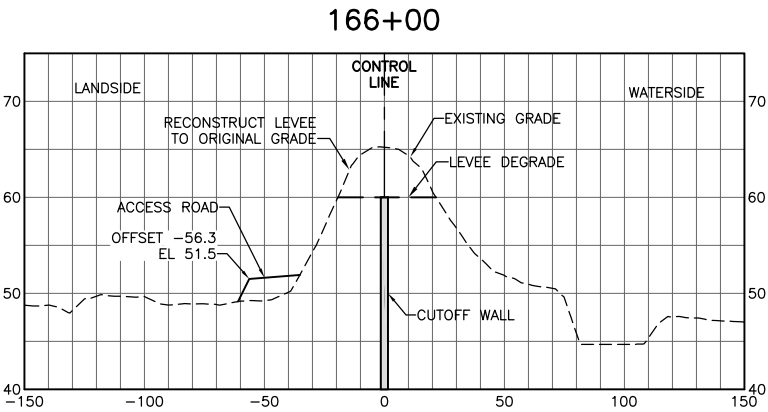
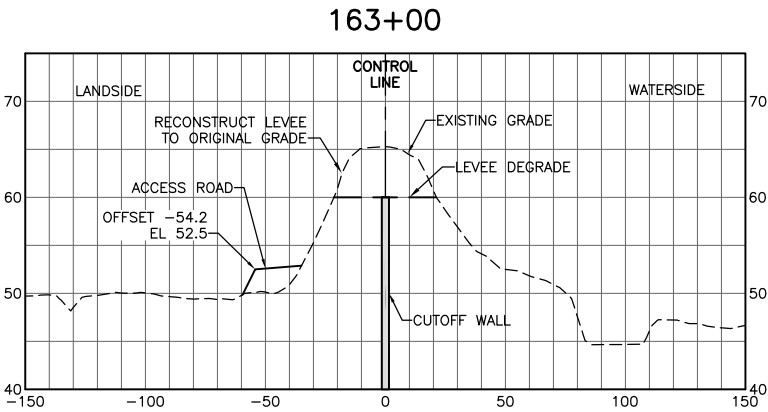
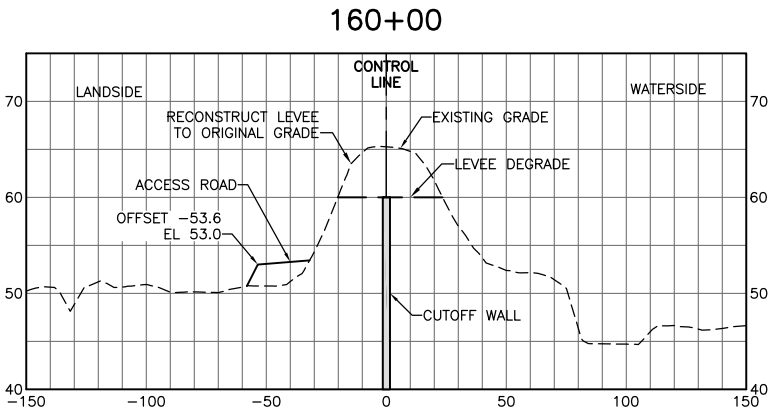
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

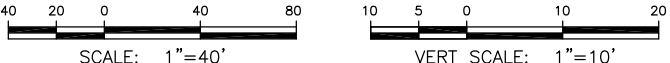
LEVEE CROSS SECTIONS  
STA 151+00 TO 159+00

FILENAME	C-606.dwg	SHEET
SCALE		C-606





NOTE:  
SEE SHEET C-402 FOR CUTOFF WALL TIP ELEVATION



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



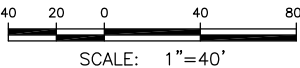
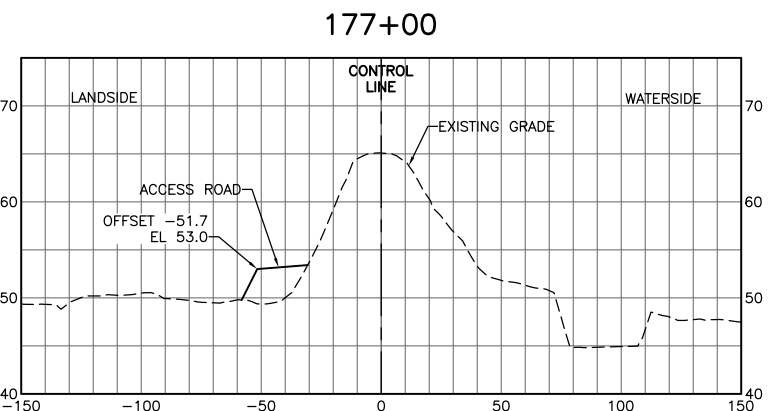
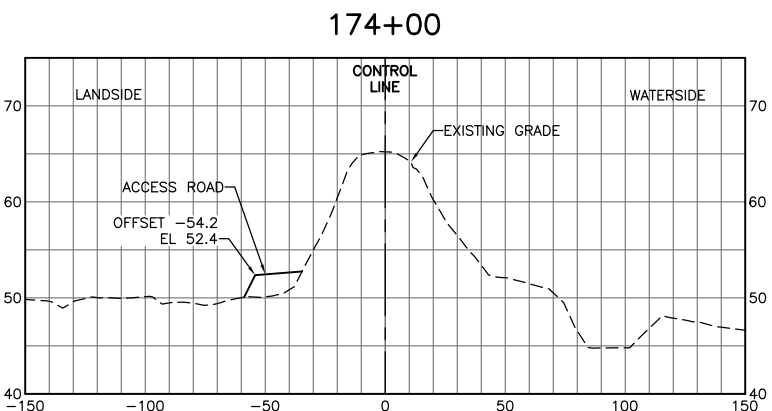
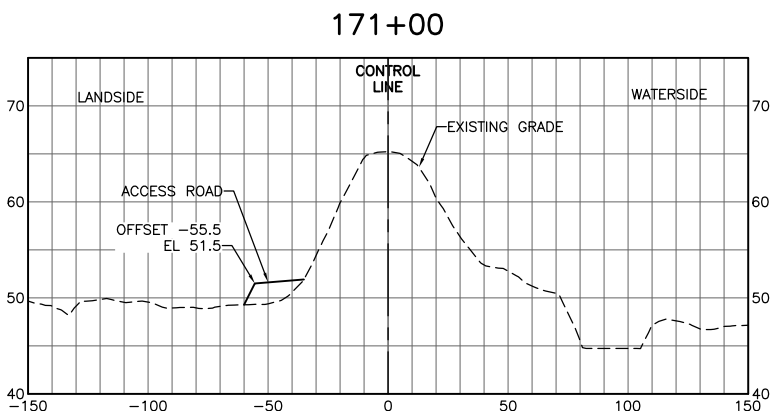
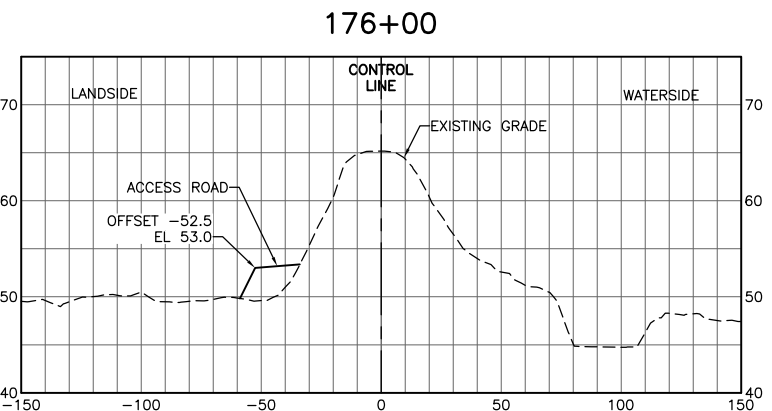
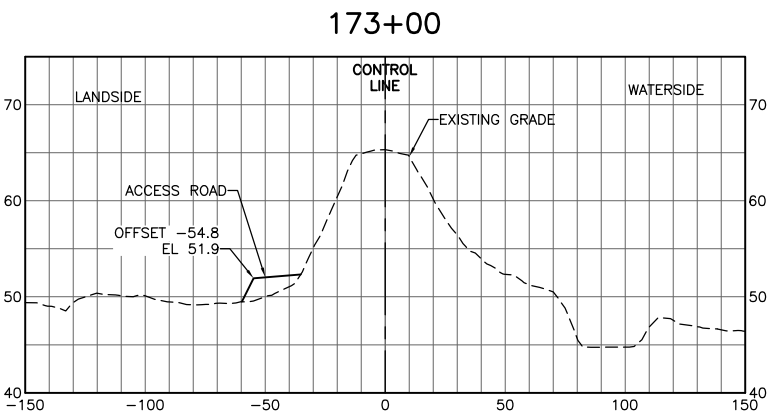
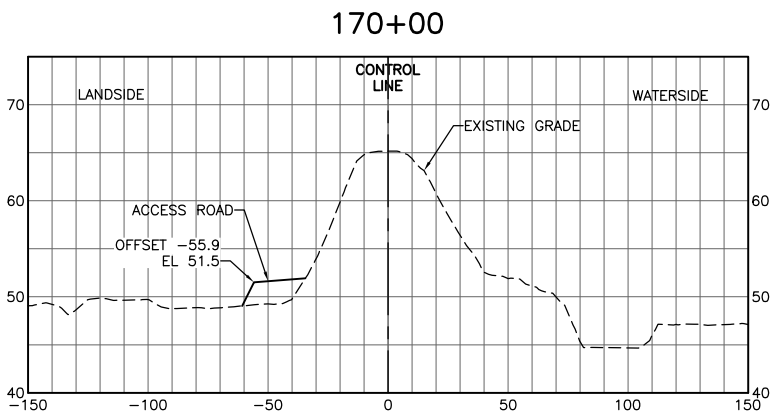
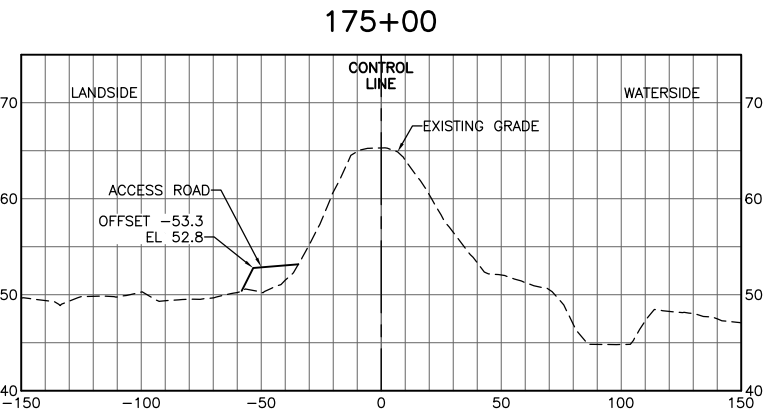
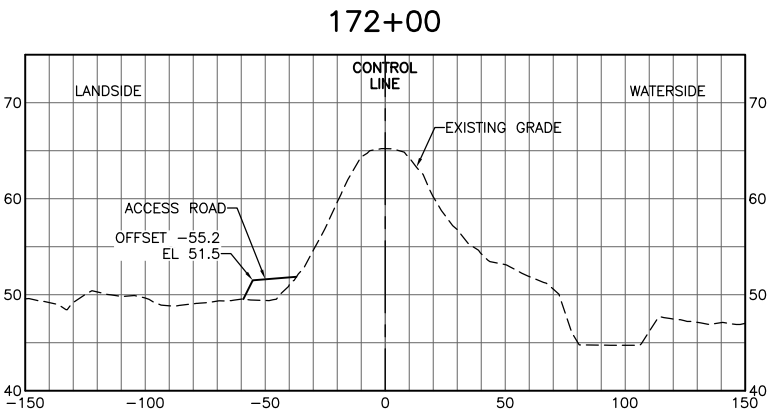
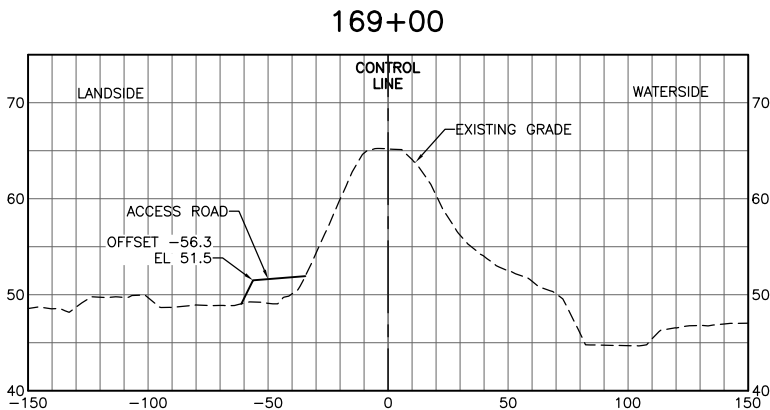
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS STA 160+00 TO 168+00		
FILENAME	C-607.dwg	SHEET <b>C-607</b>
SCALE		



Attachment E – 100% Project Drawings



FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



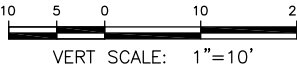
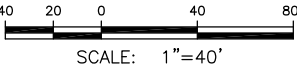
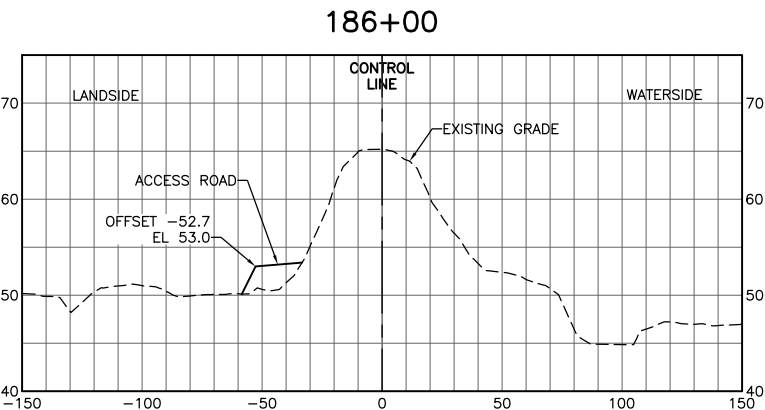
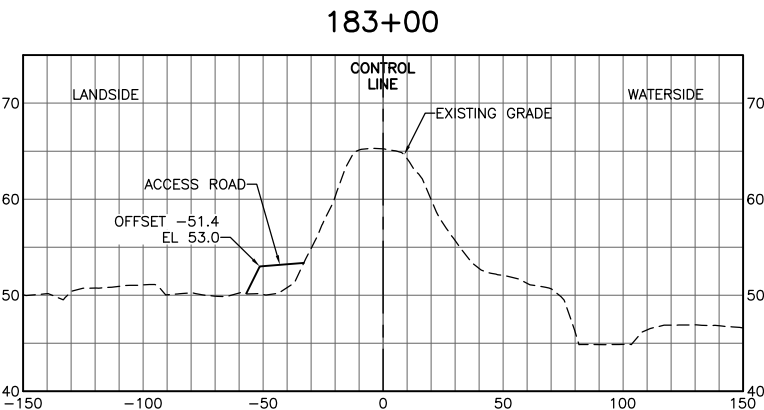
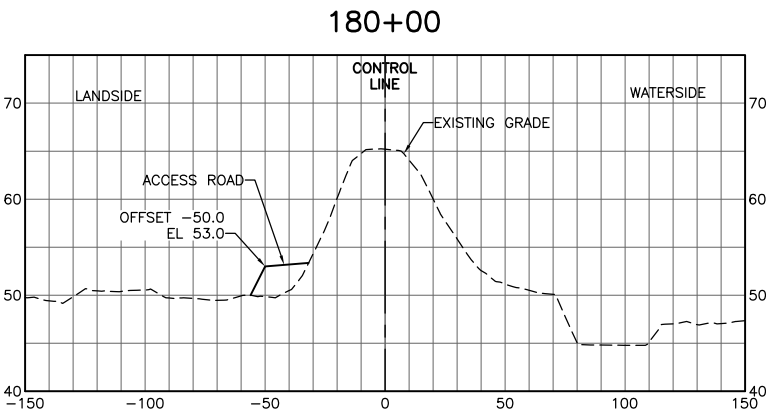
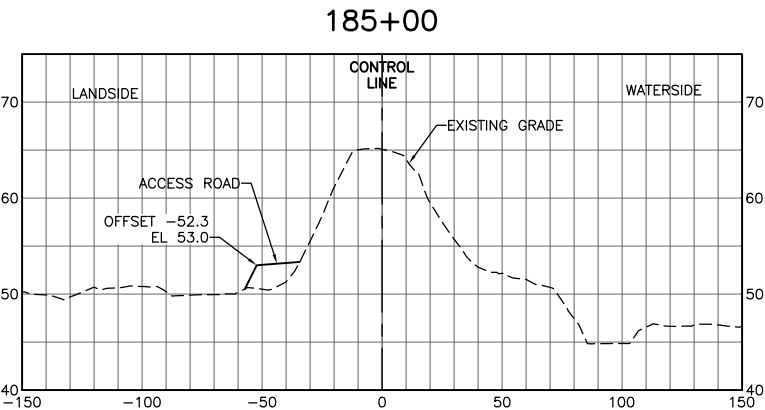
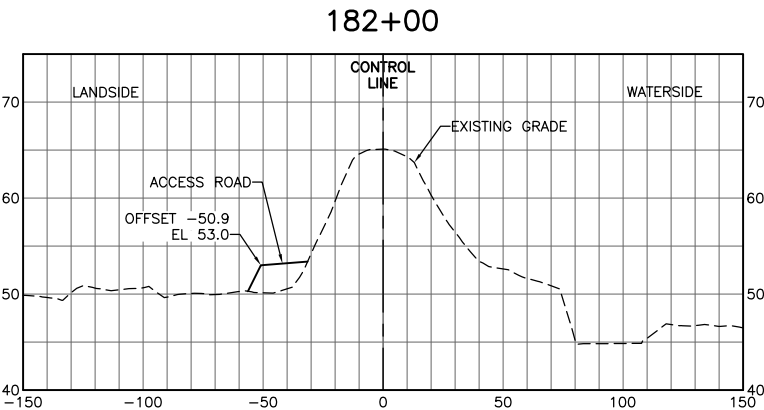
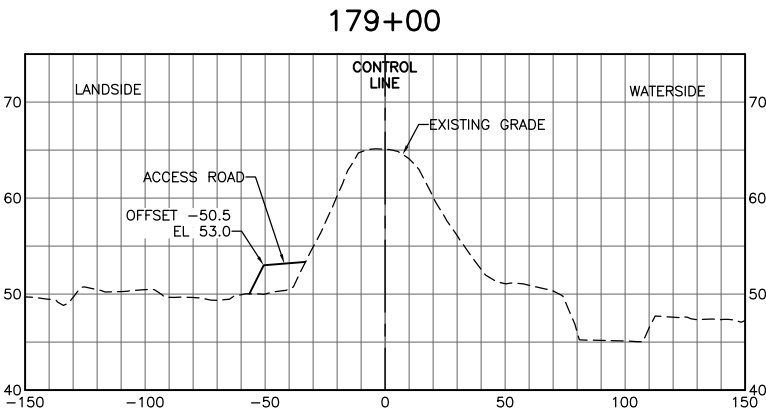
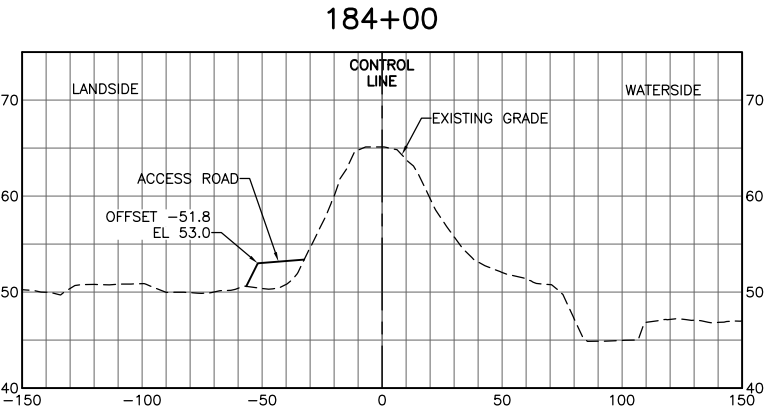
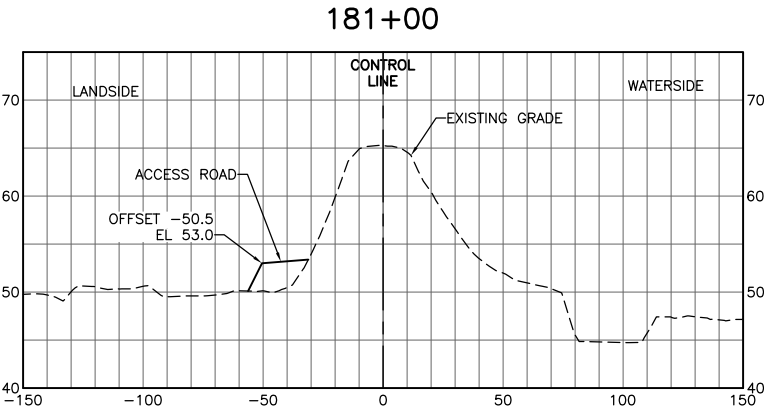
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 169+00 TO 177+00

FILENAME	C-608.dwg	SHEET
SCALE		C-608



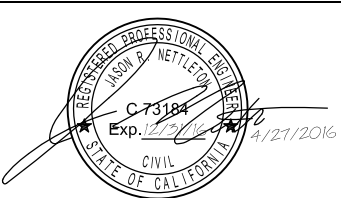


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

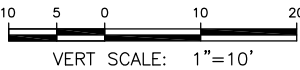
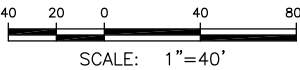
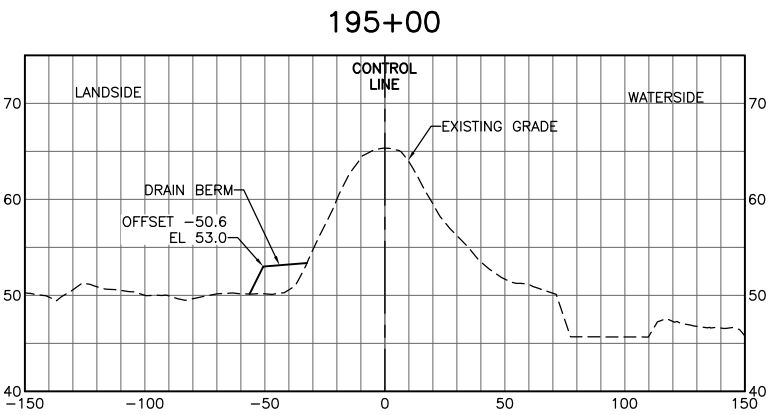
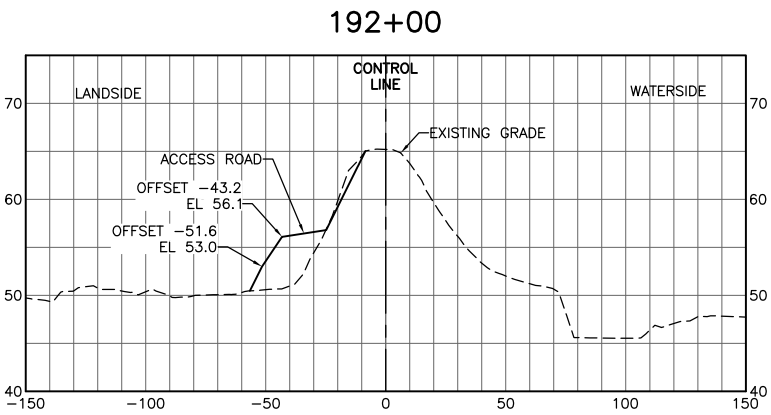
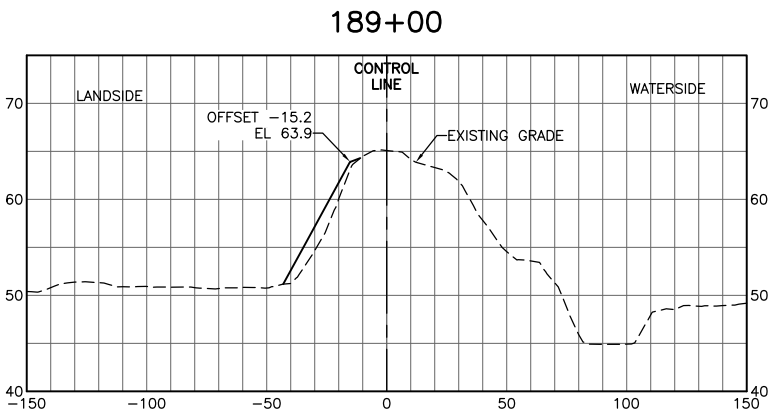
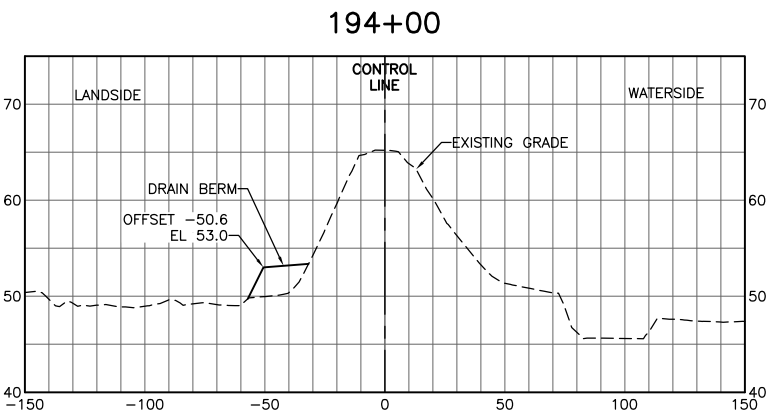
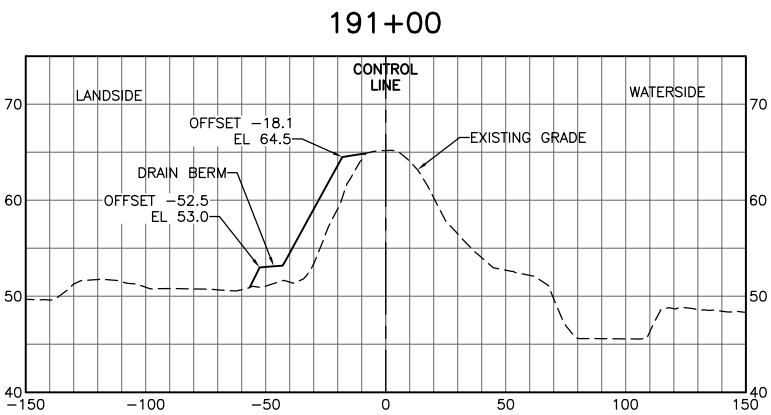
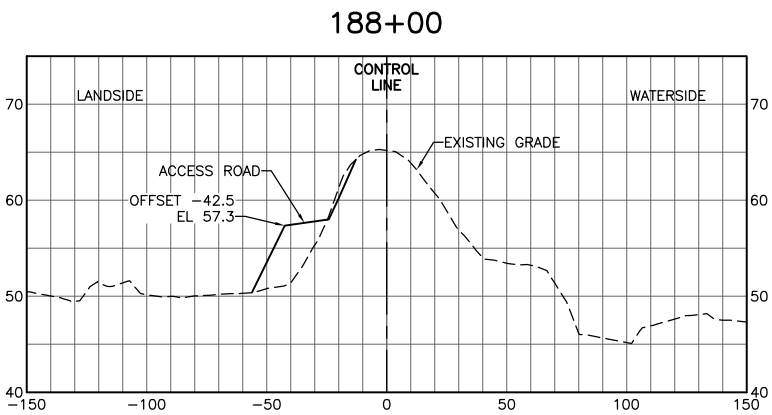
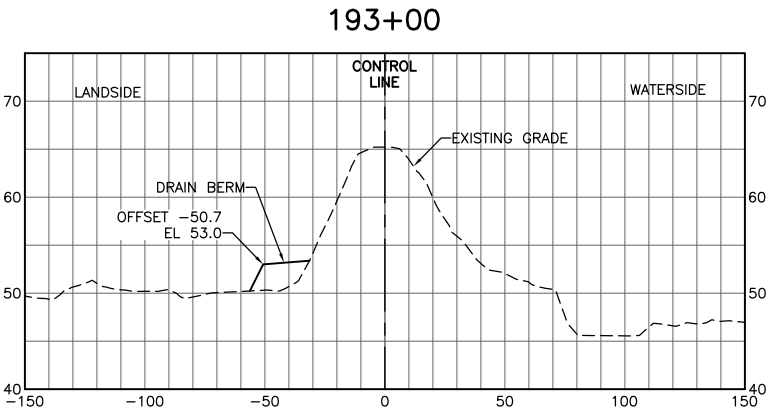
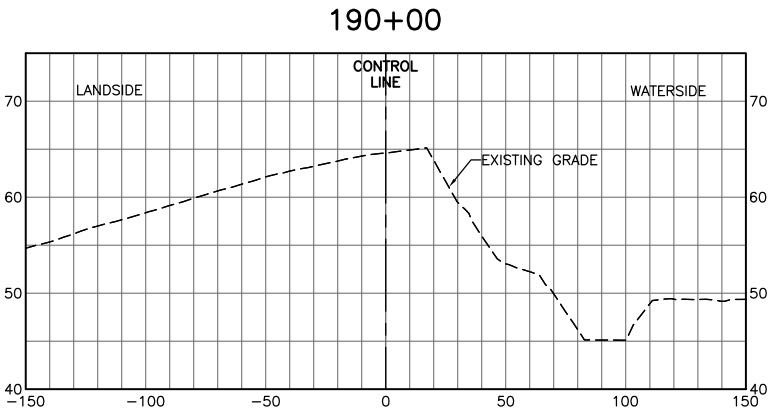
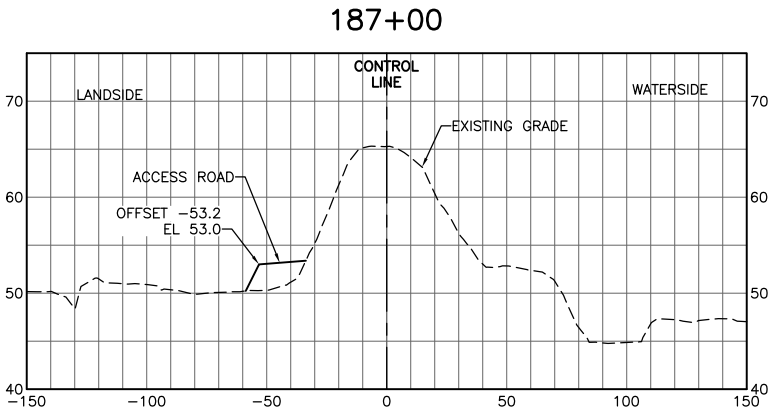
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 178+00 TO 186+00

FILENAME	C-609.dwg
SCALE	

SHEET
C-609



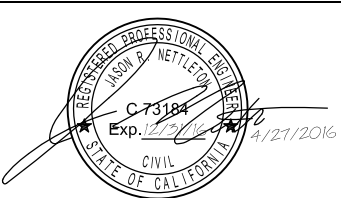


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

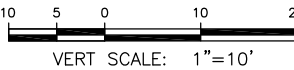
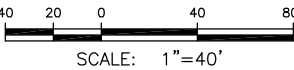
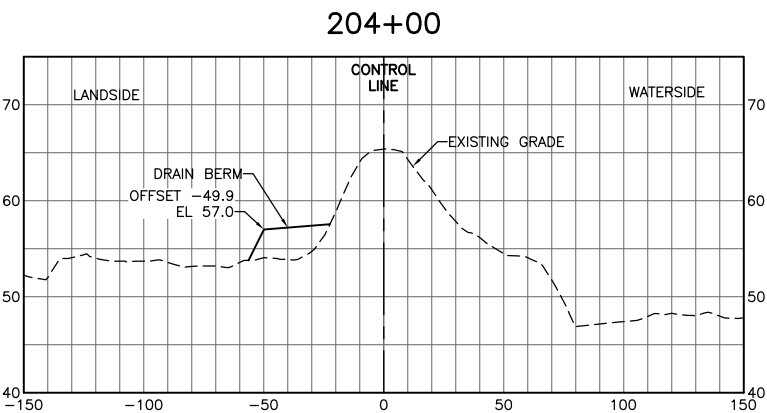
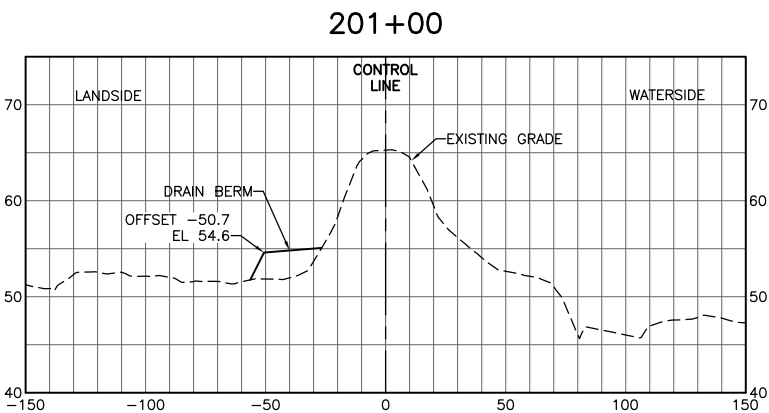
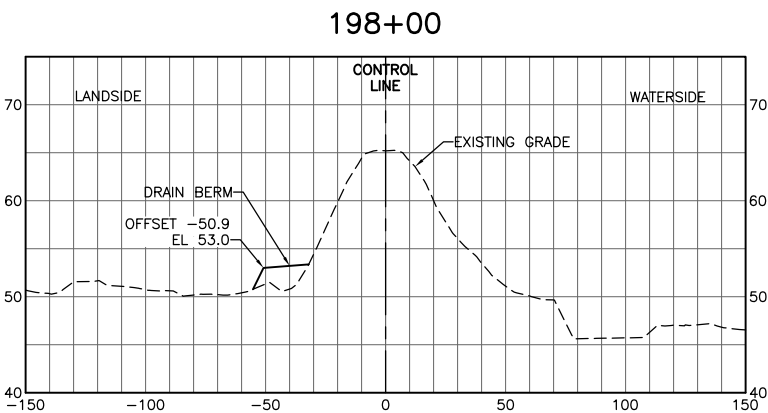
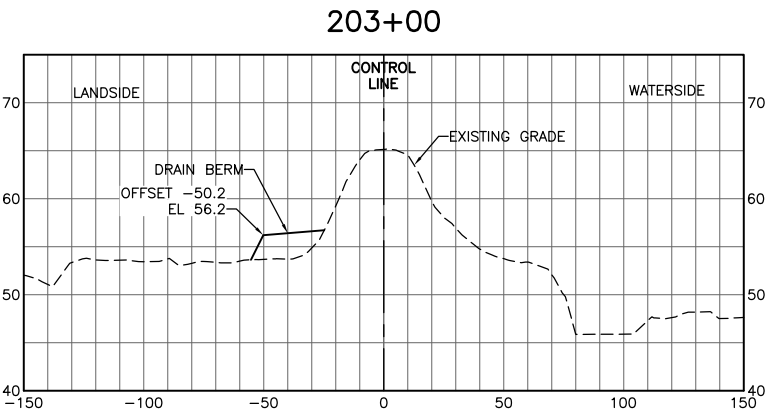
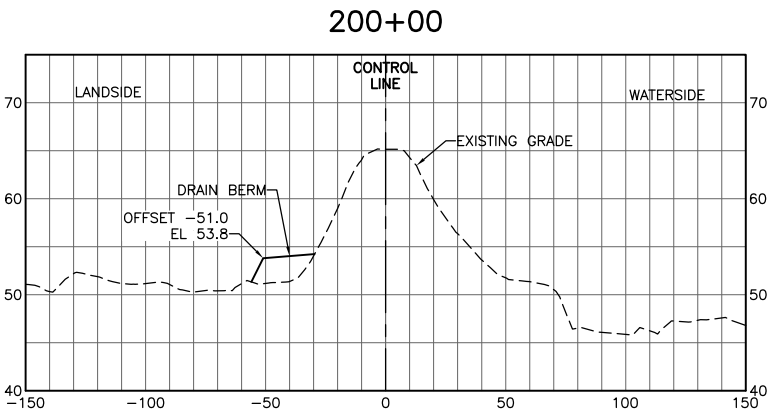
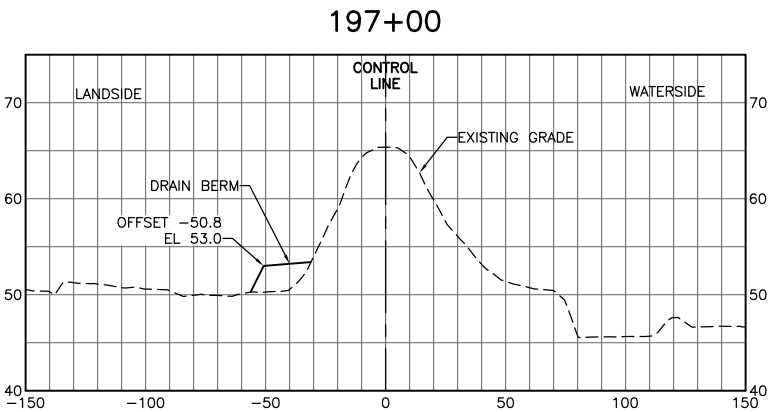
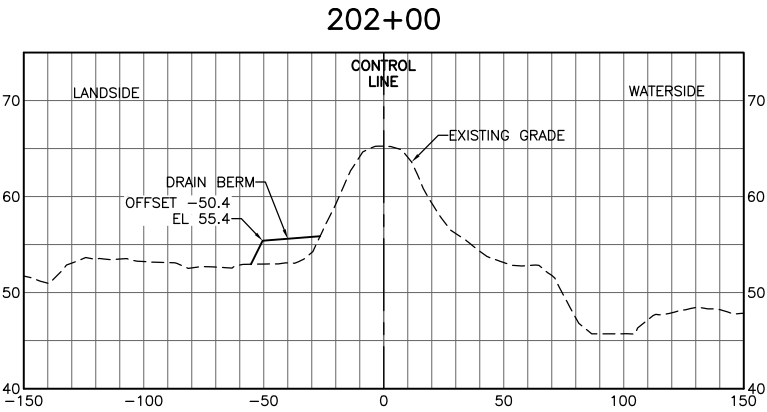
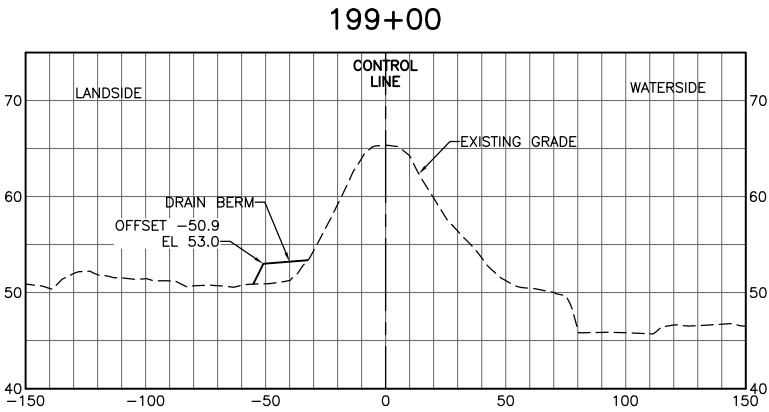
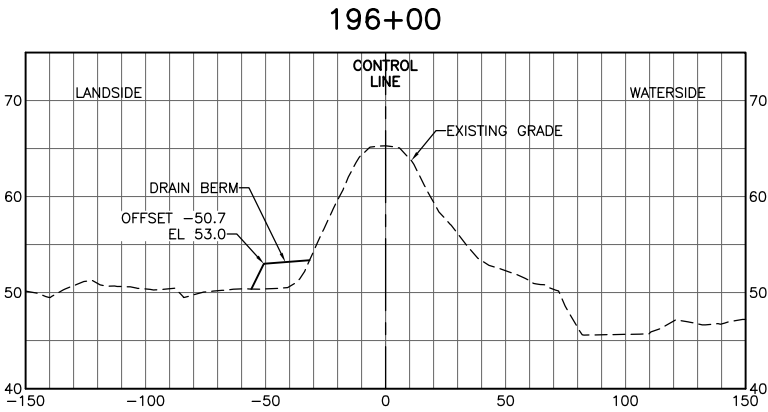
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 187+00 TO 195+00

FILENAME	C-610.dwg
SCALE	

SHEET
C-610



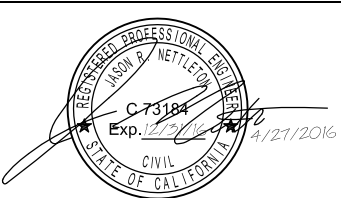


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

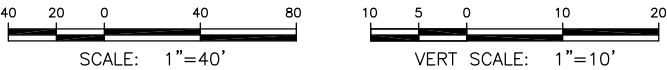
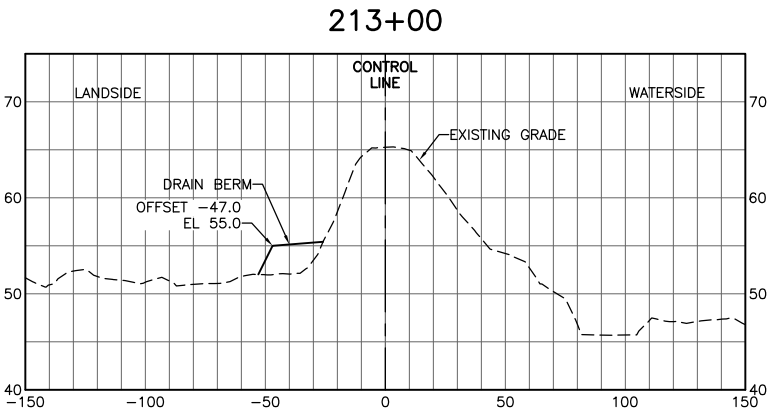
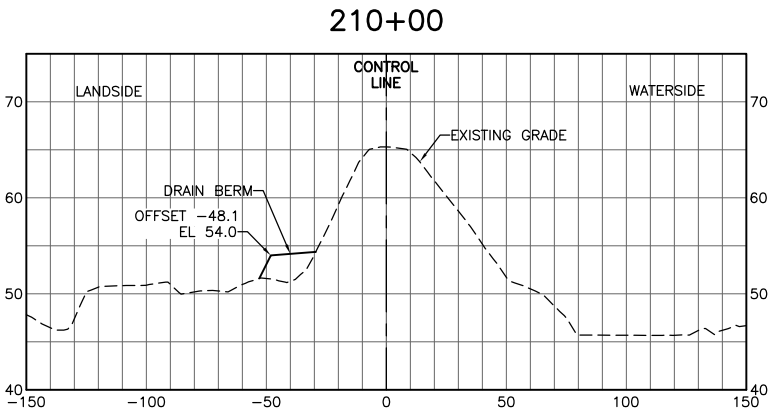
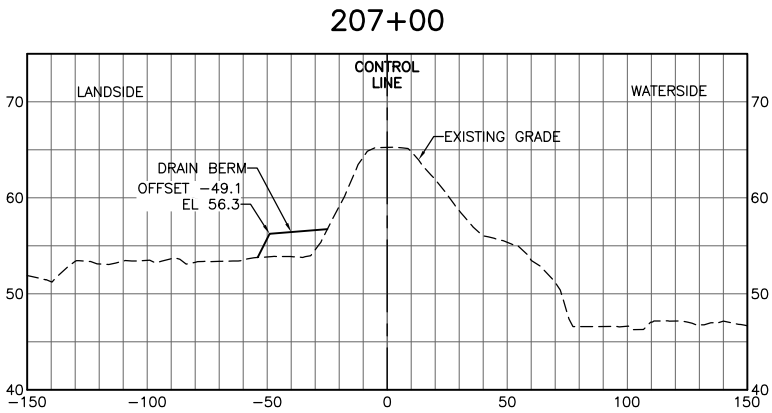
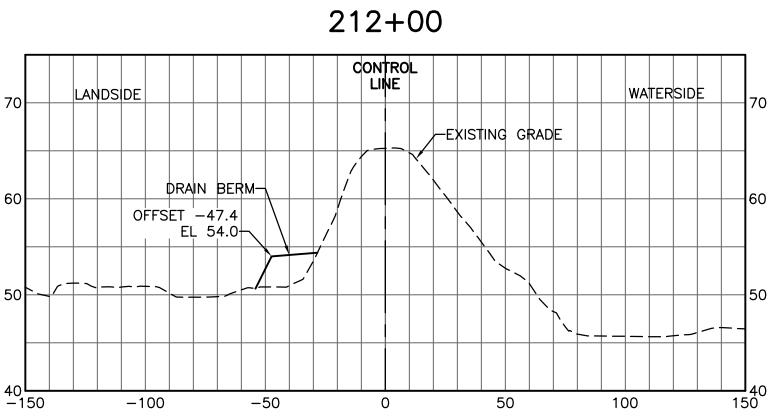
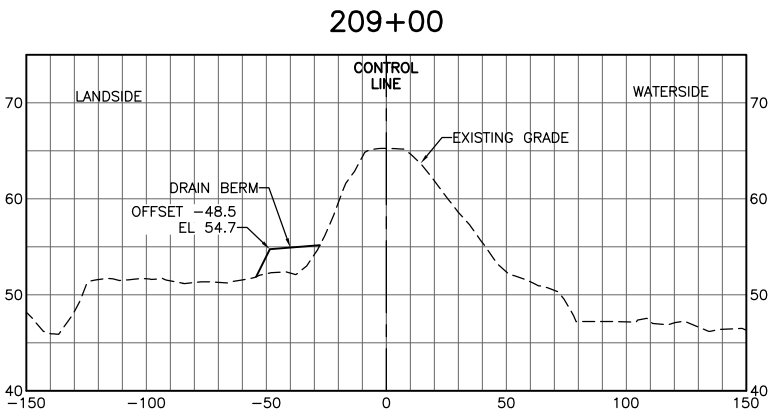
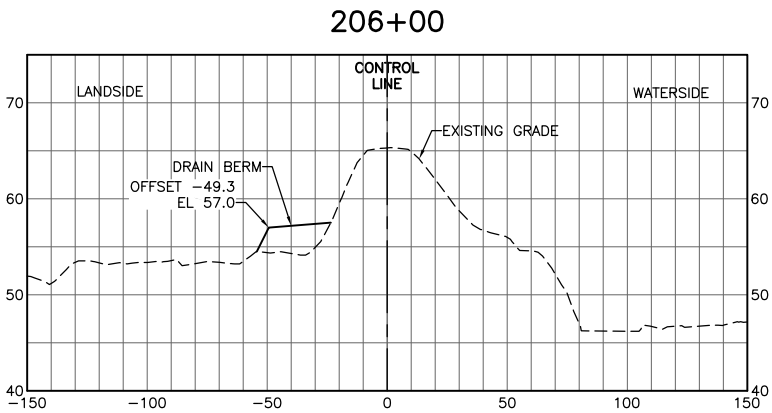
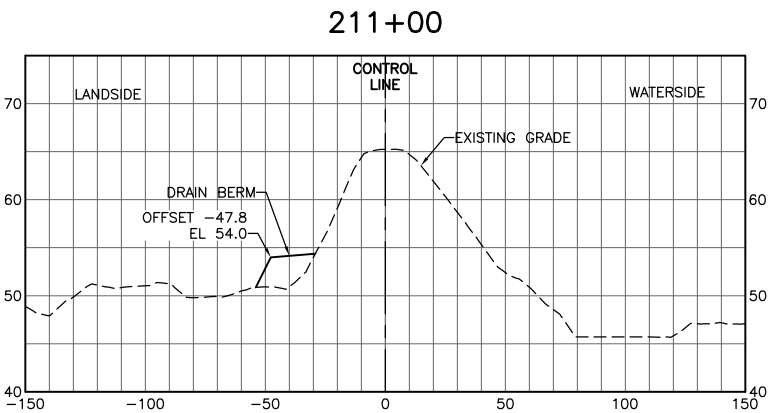
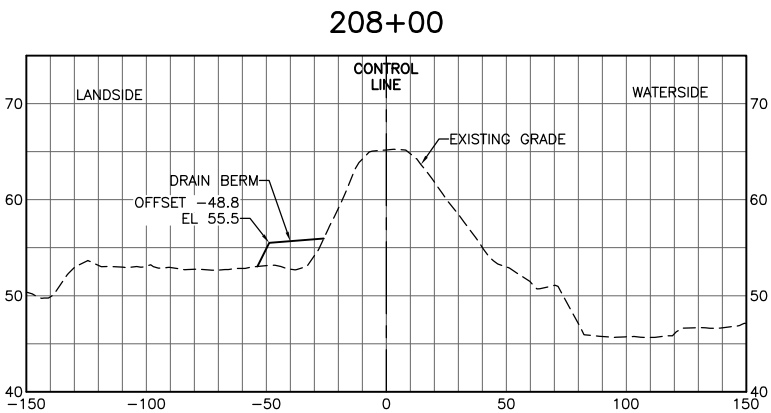
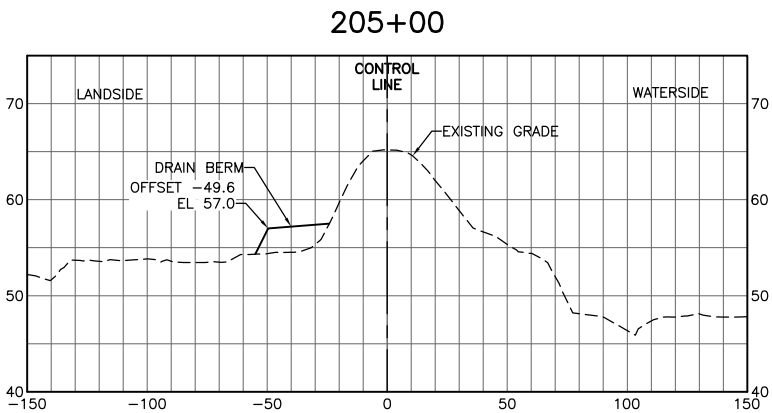
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 196+00 TO 204+00

FILENAME	C-611.dwg
SCALE	

SHEET
C-611



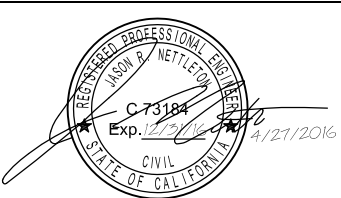


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

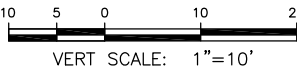
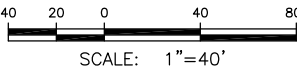
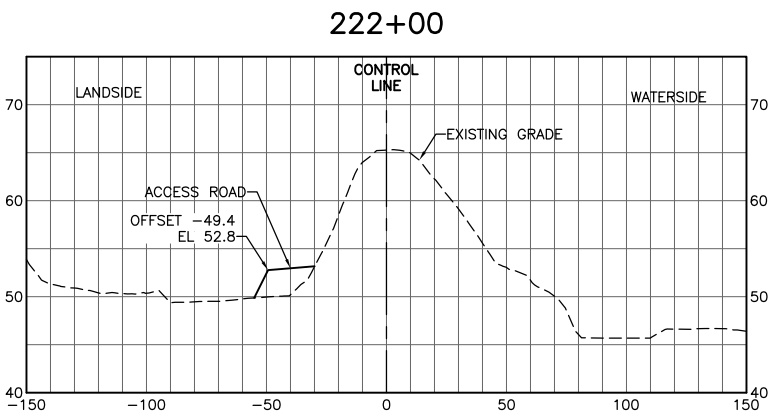
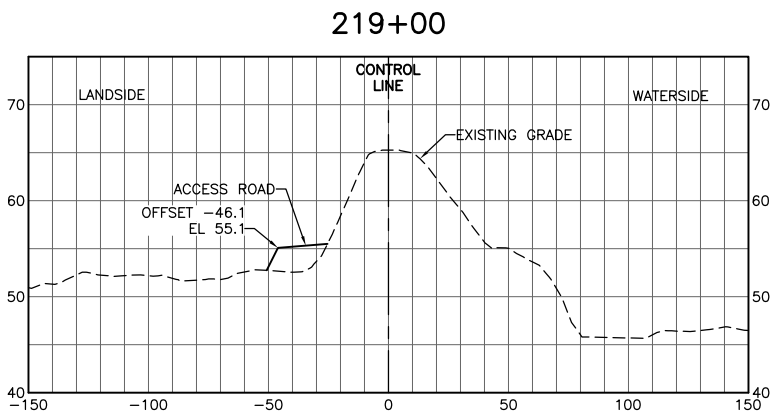
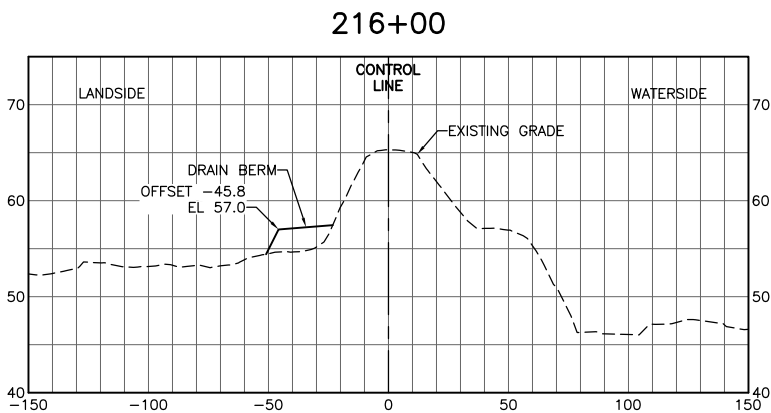
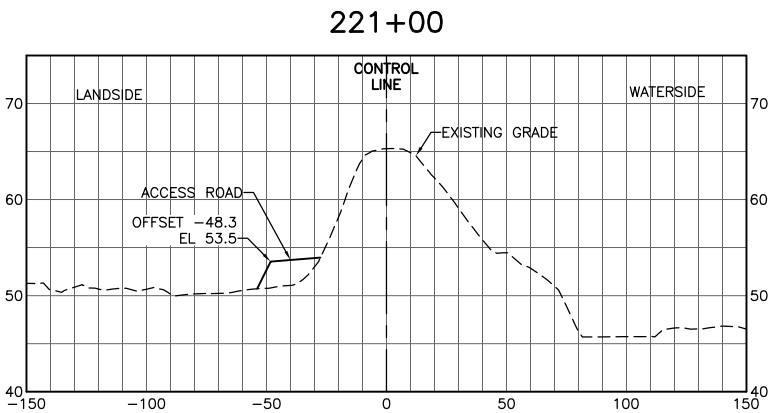
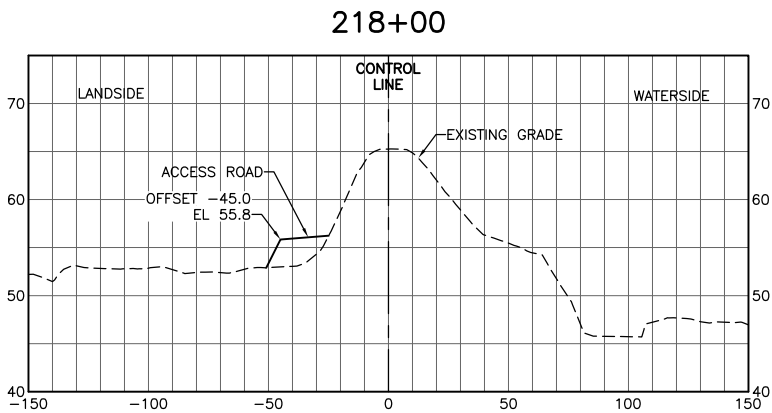
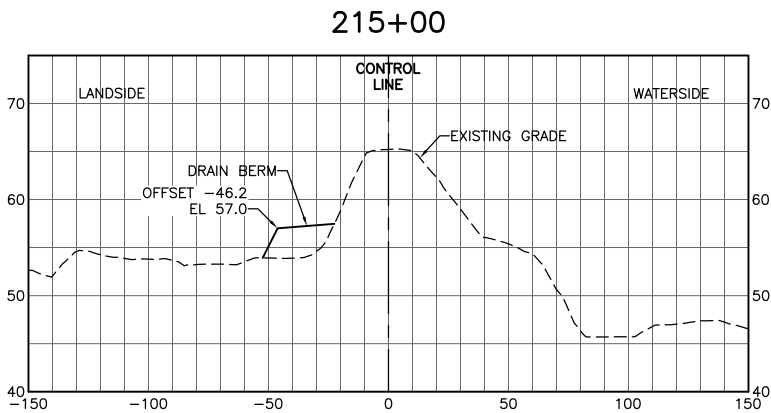
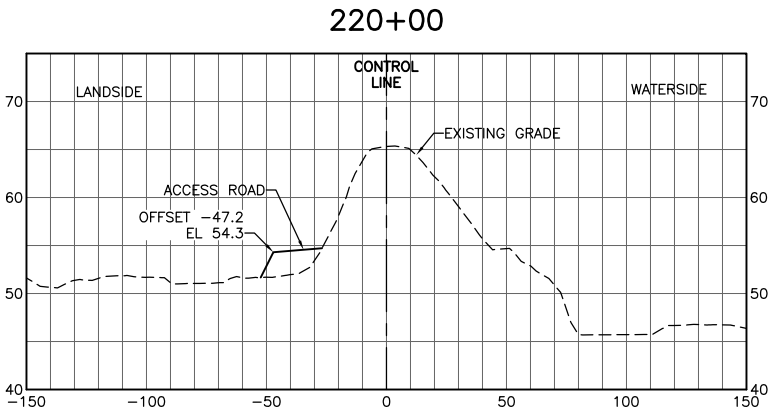
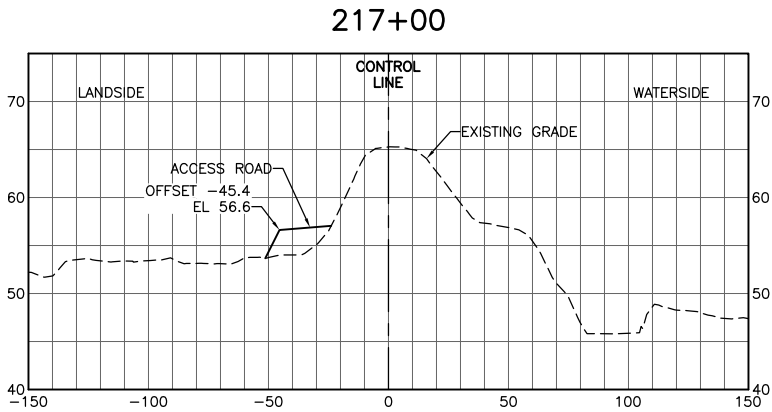
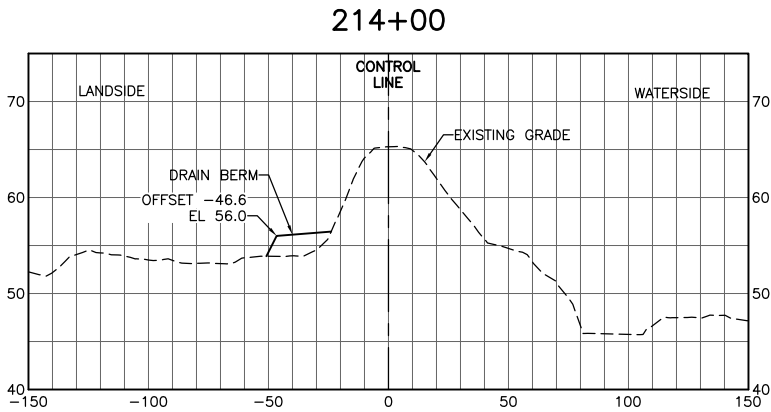
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 205+00 TO 213+00

FILENAME	C-612.dwg
SCALE	

SHEET
C-612



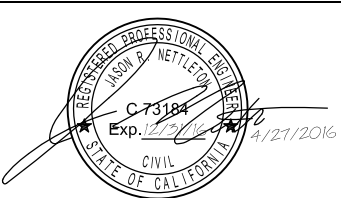


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 214+00 TO 222+00

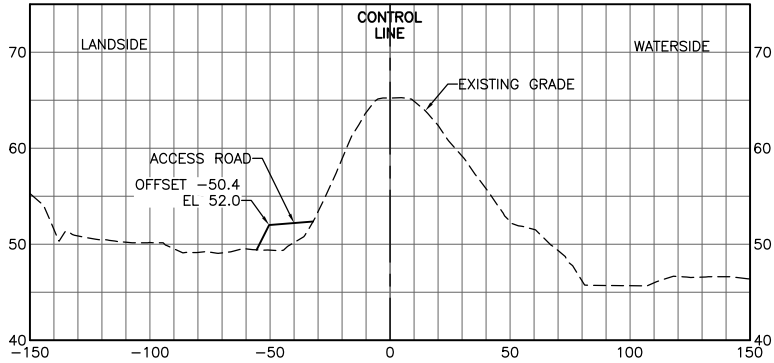
FILENAME	C-613.dwg
SCALE	

SHEET
C-613

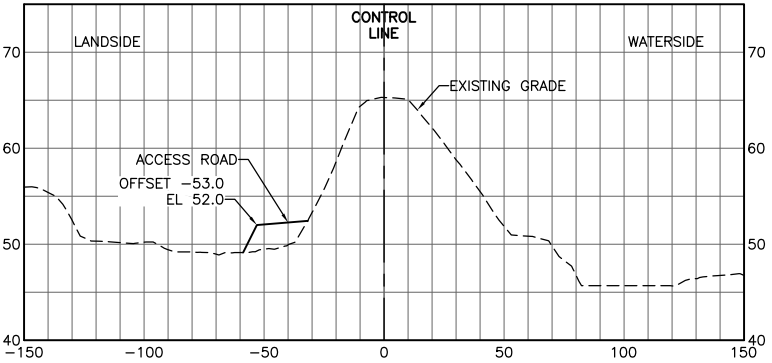


Attachment E – 100% Project Drawings

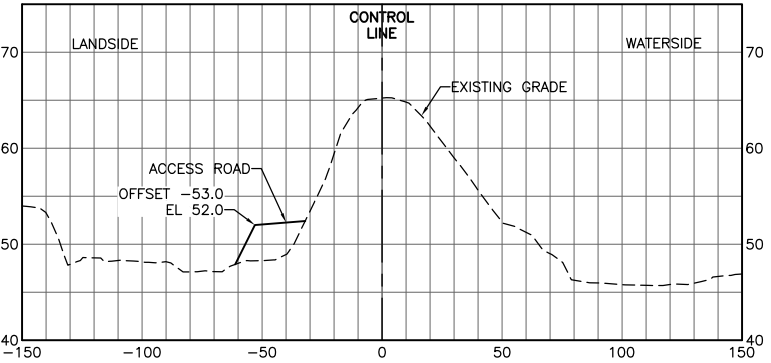
223+00



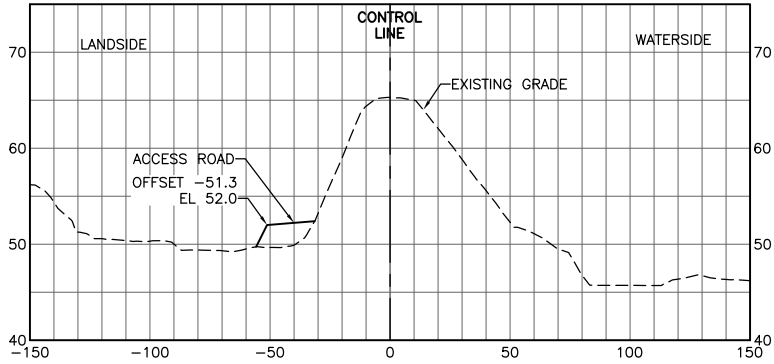
226+00



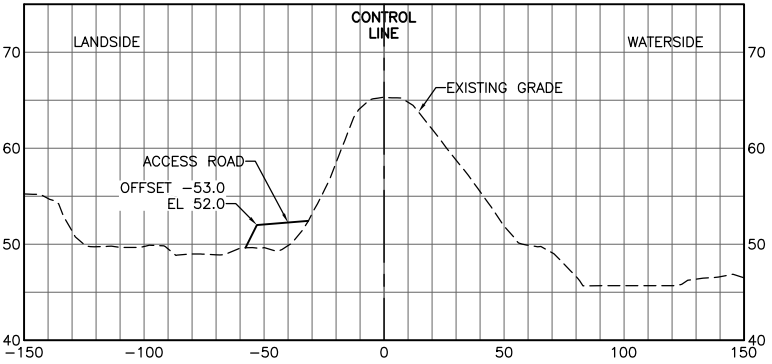
229+00



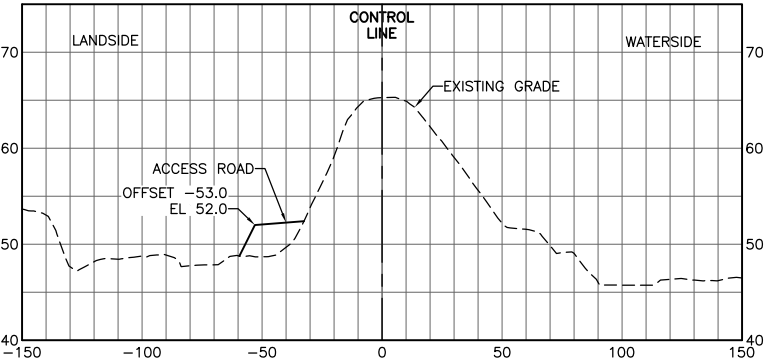
224+00



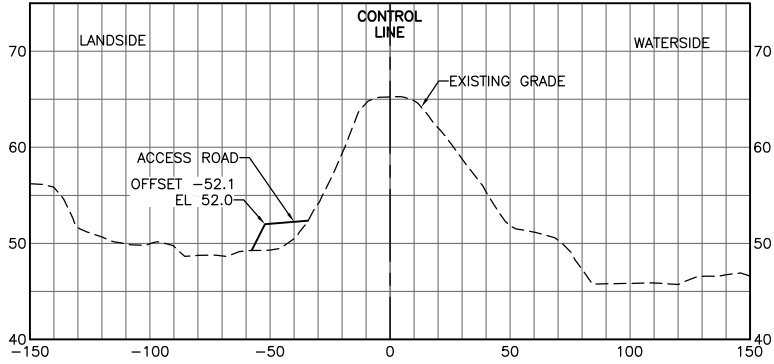
227+00



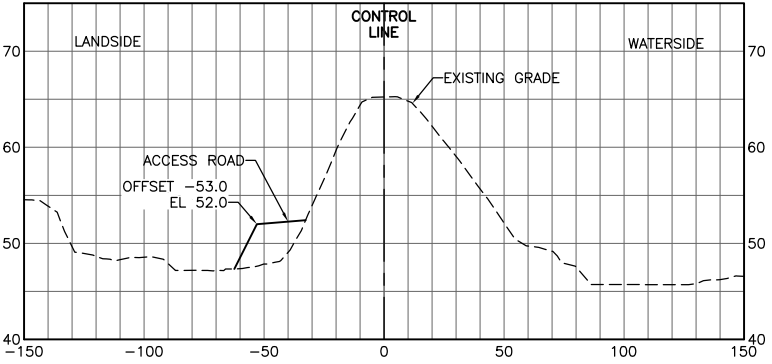
230+00



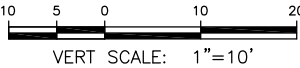
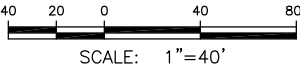
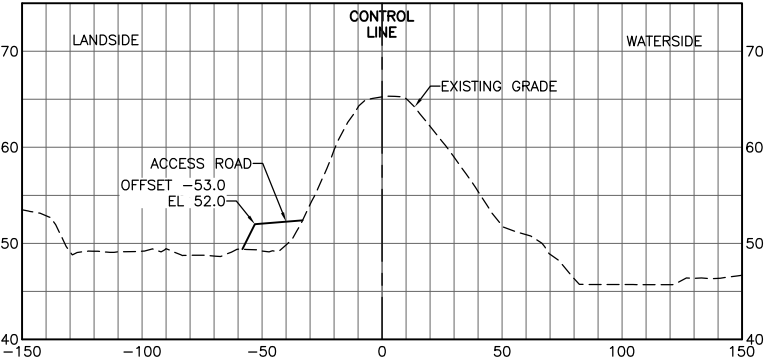
225+00



228+00



231+00

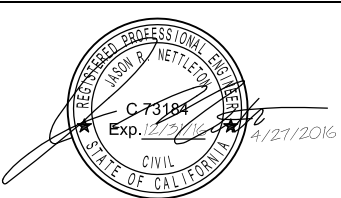


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



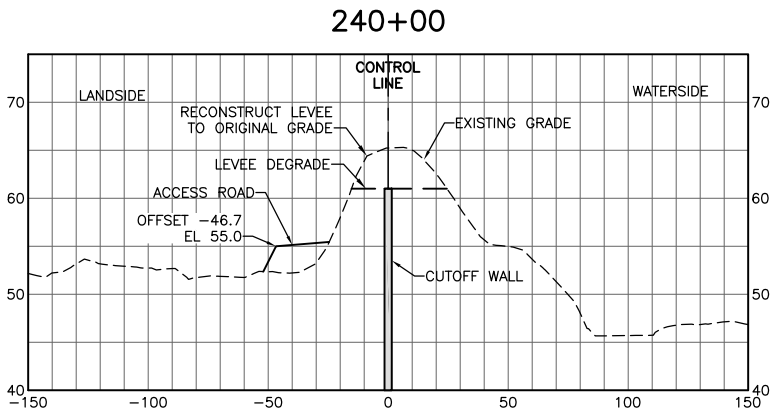
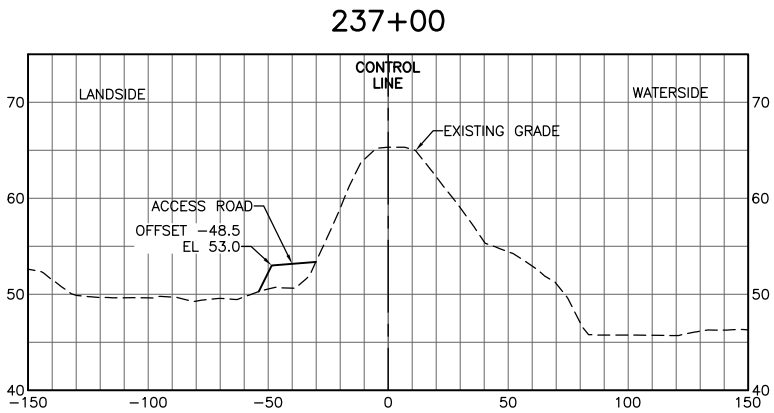
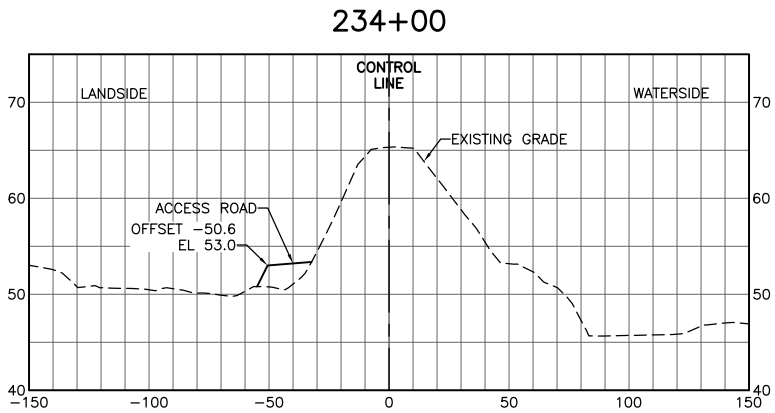
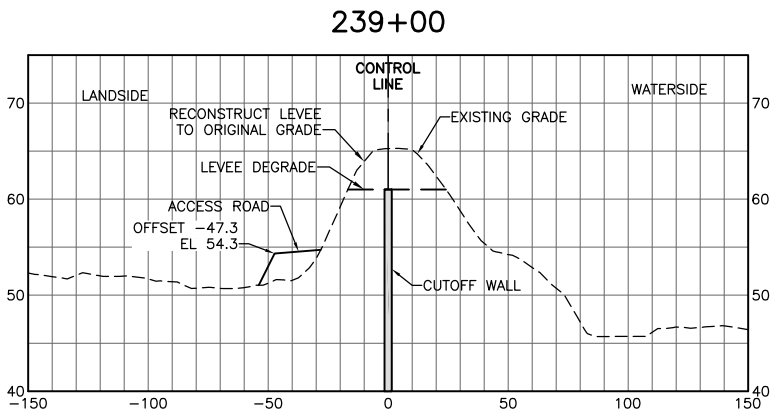
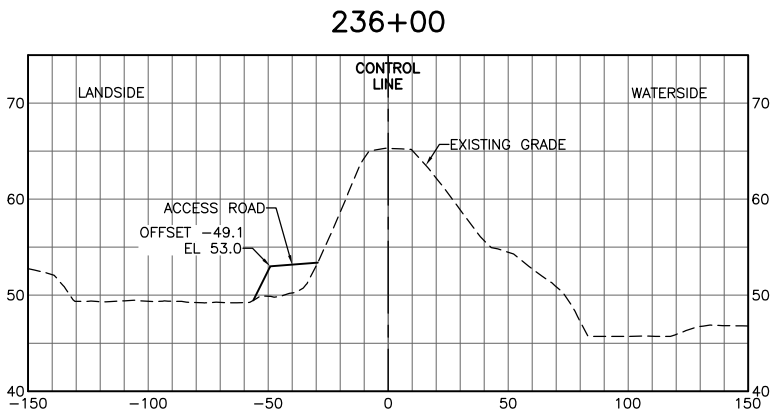
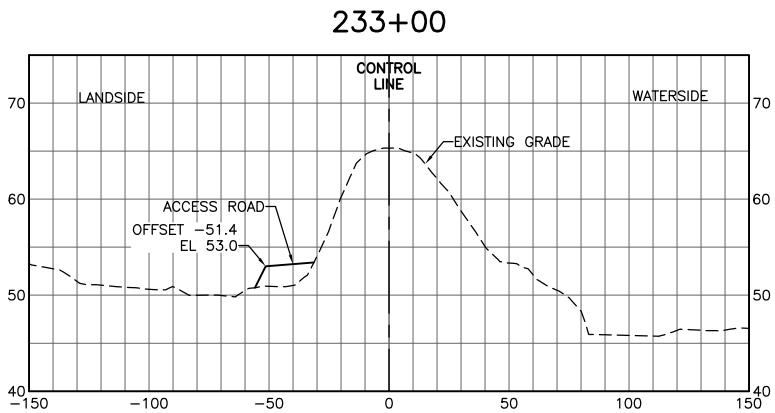
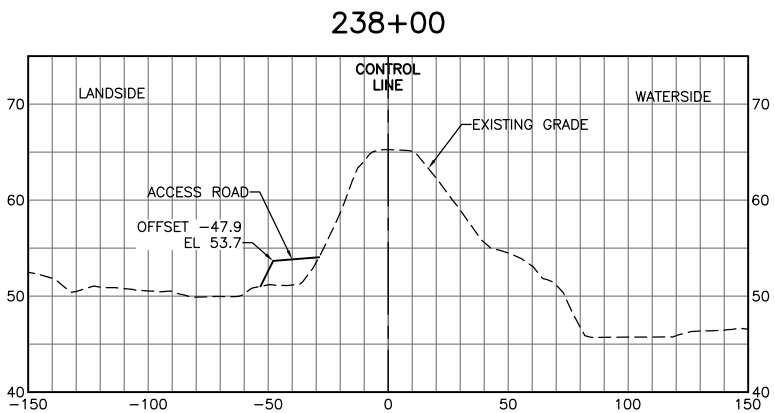
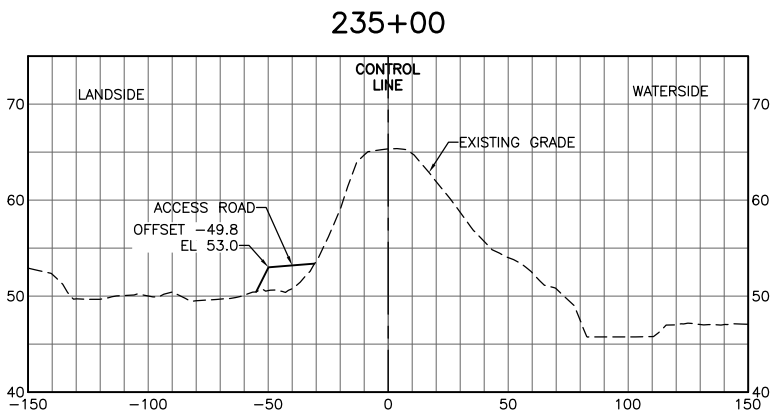
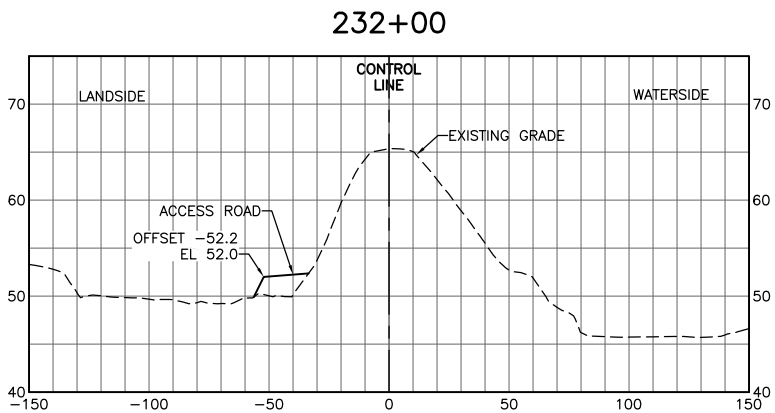
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

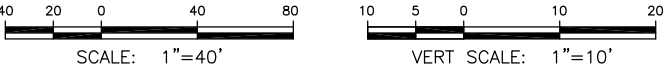
LEVEE CROSS SECTIONS  
STA 223+00 TO 231+00

FILENAME	C-614.dwg
SCALE	

SHEET
C-614



NOTE:  
SEE SHEET C-403 FOR CUTOFF WALL TIP ELEVATION

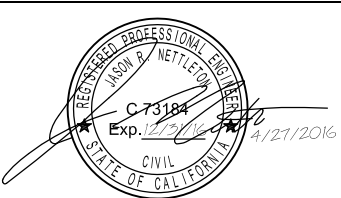


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

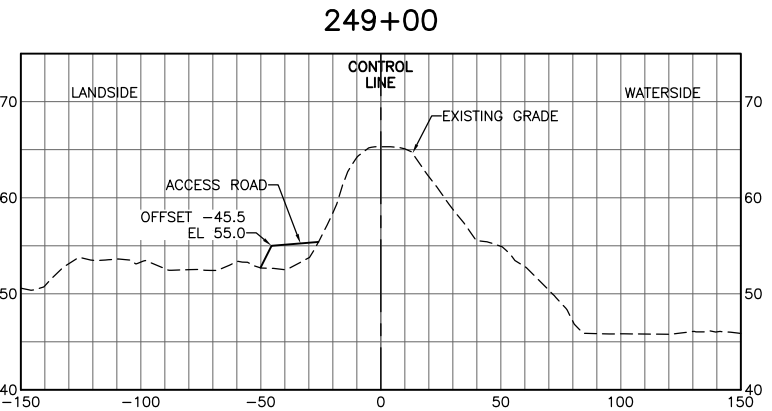
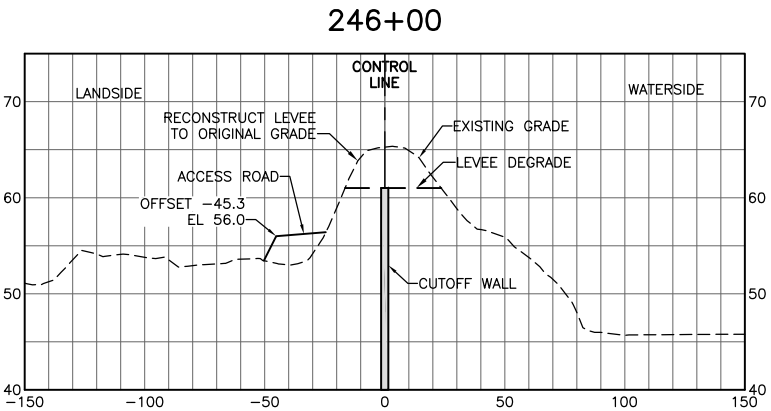
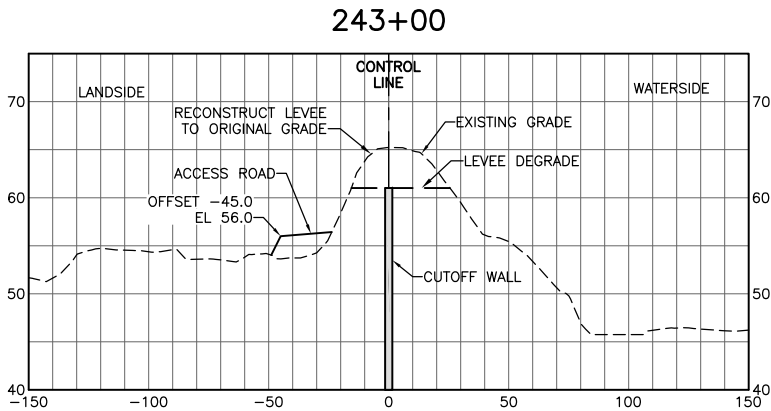
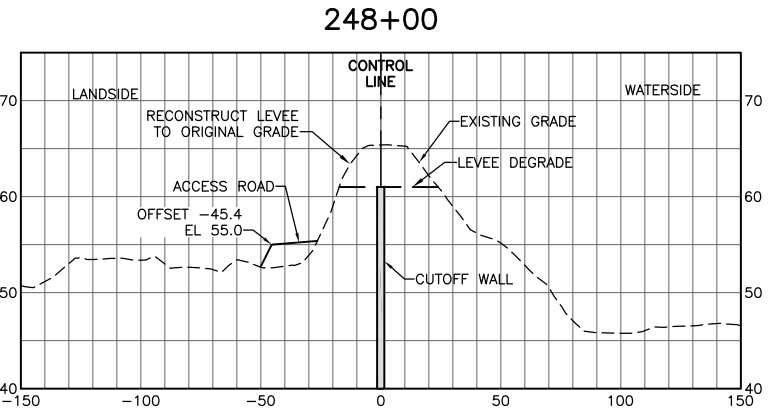
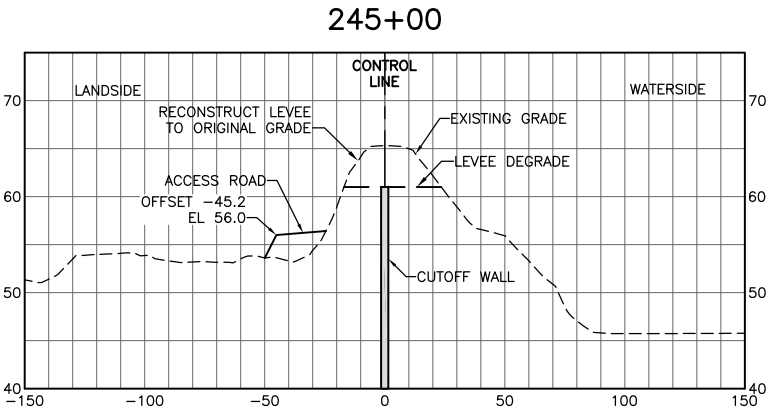
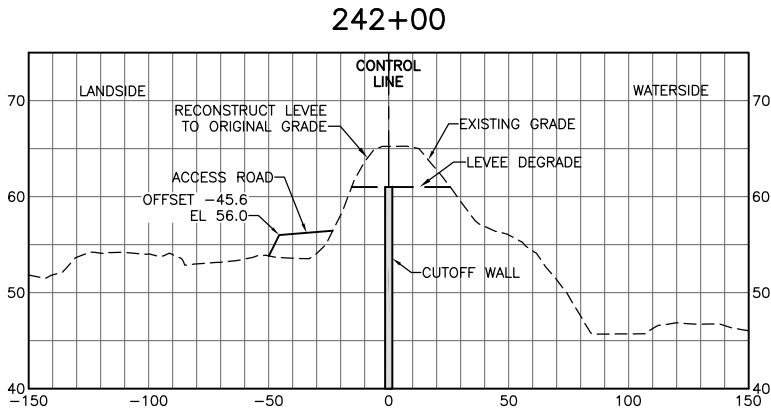
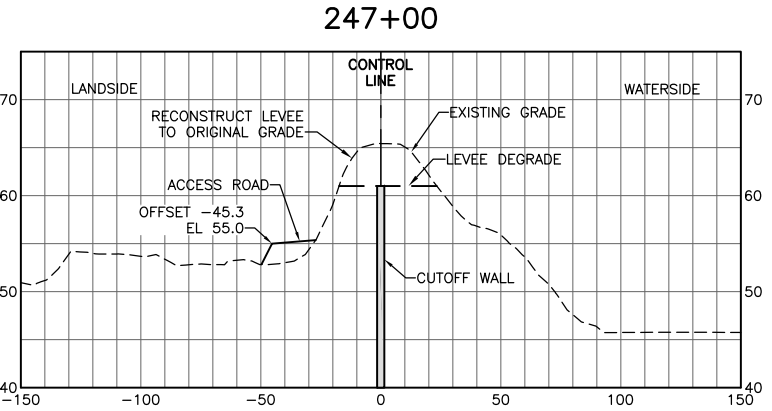
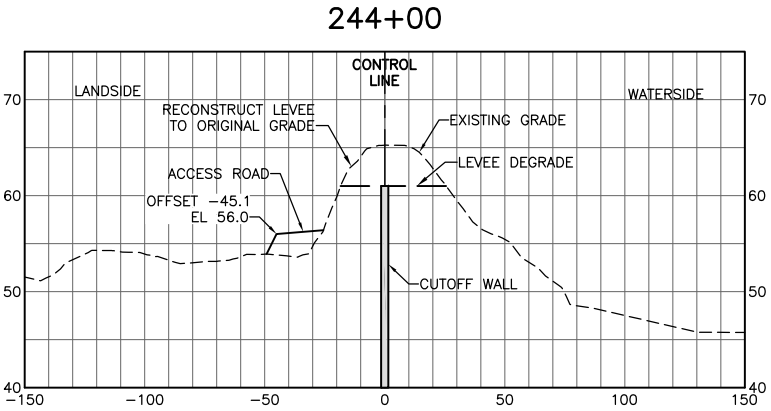
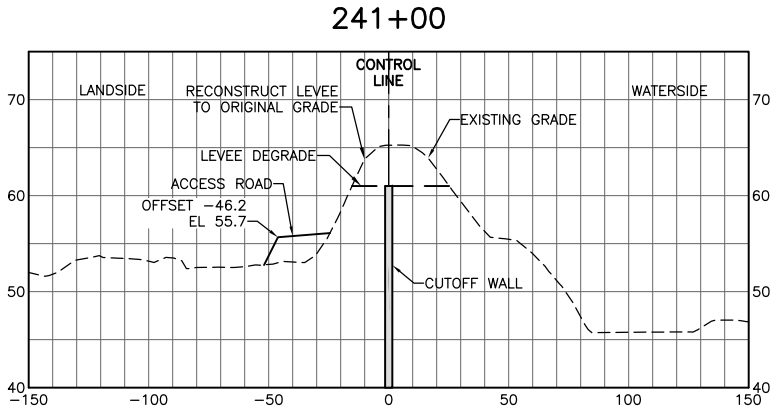
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 232+00 TO 240+00

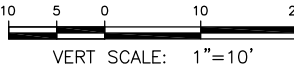
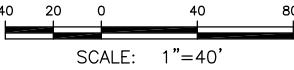
FILENAME	C-615.dwg
SCALE	

SHEET
C-615





NOTE:  
SEE SHEET C-403 FOR CUTOFF WALL TIP ELEVATION

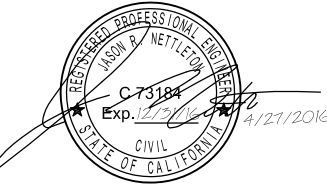


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016

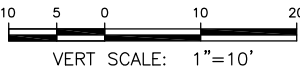
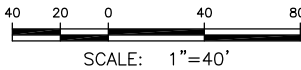
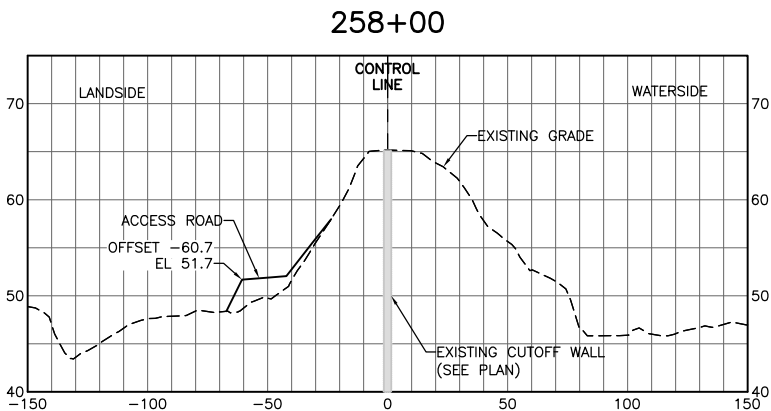
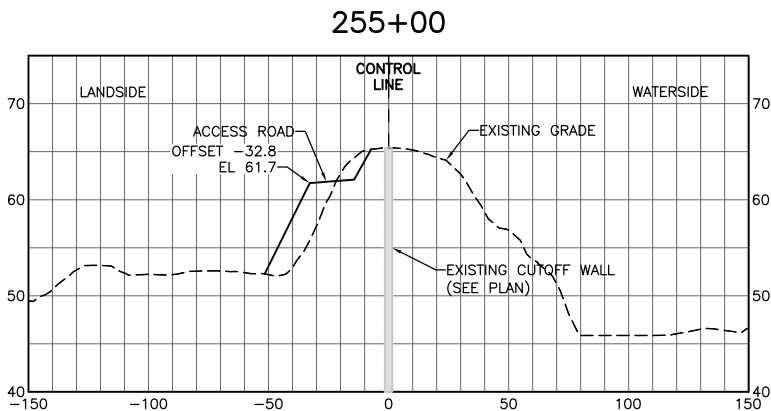
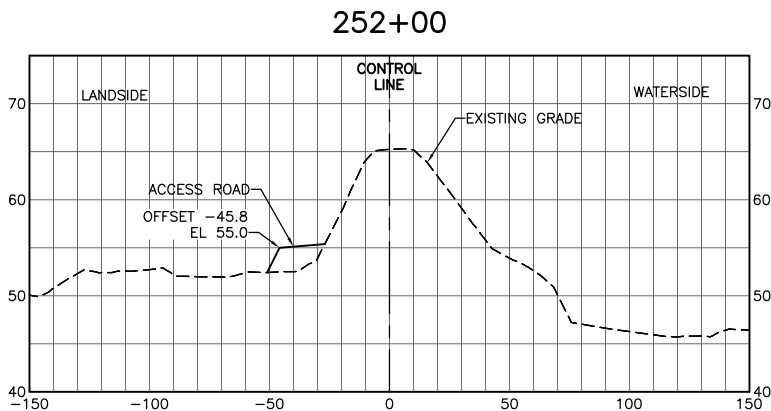
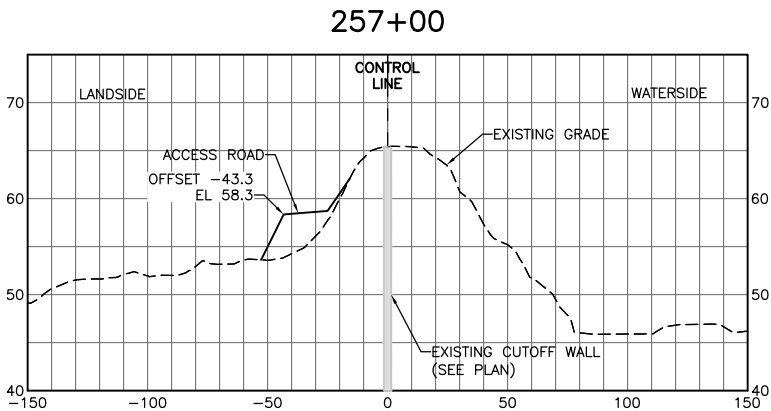
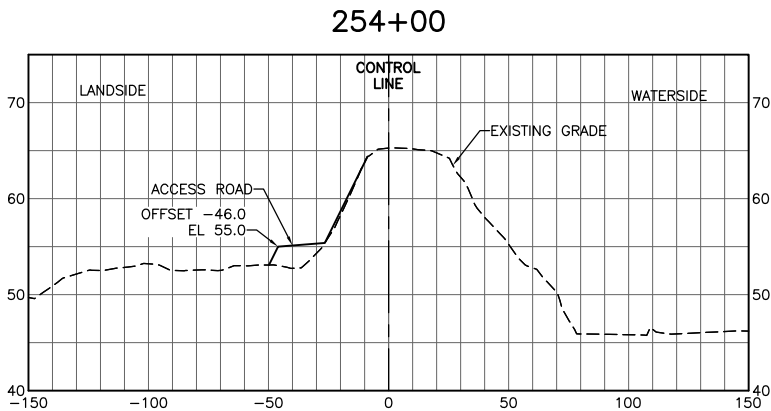
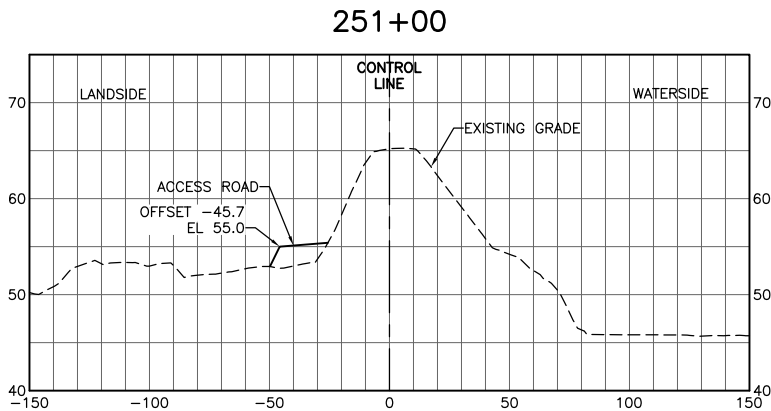
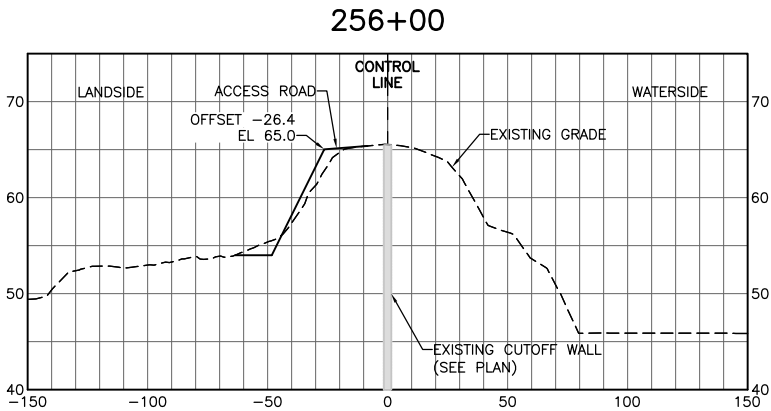
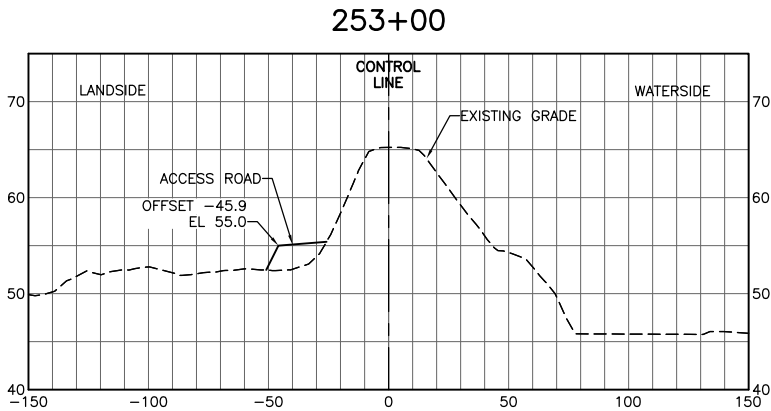
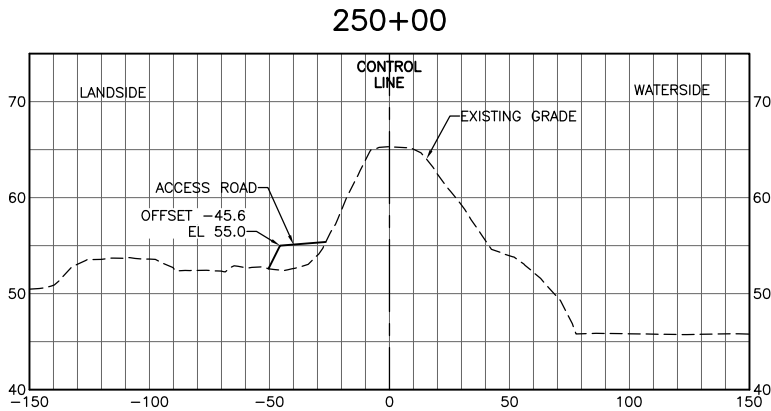


Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 241+00 TO 249+00

FILENAME	C-616.dwg	SHEET
SCALE		C-616

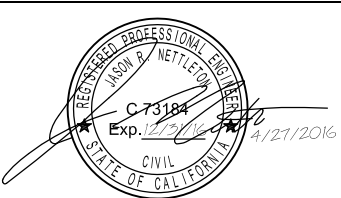


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

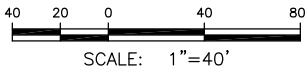
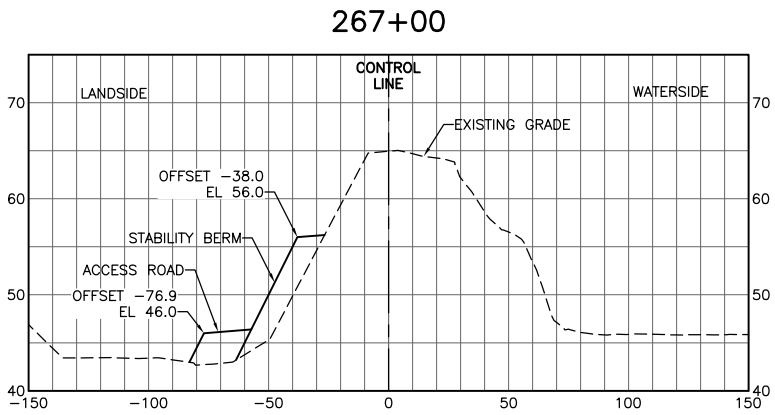
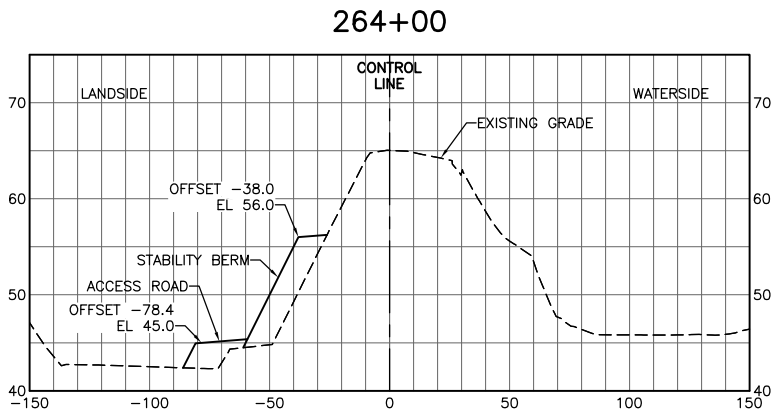
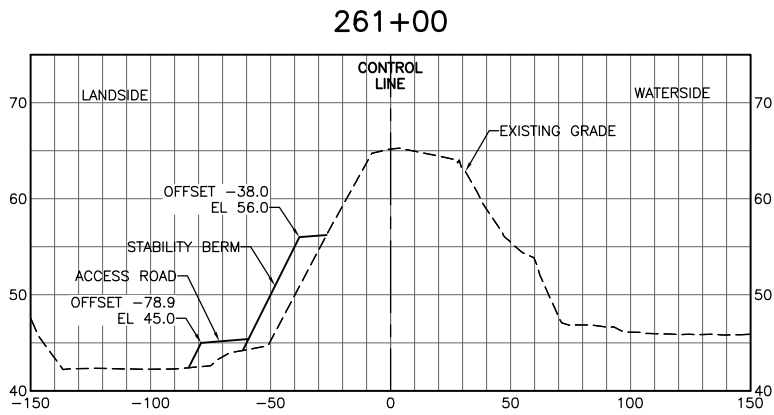
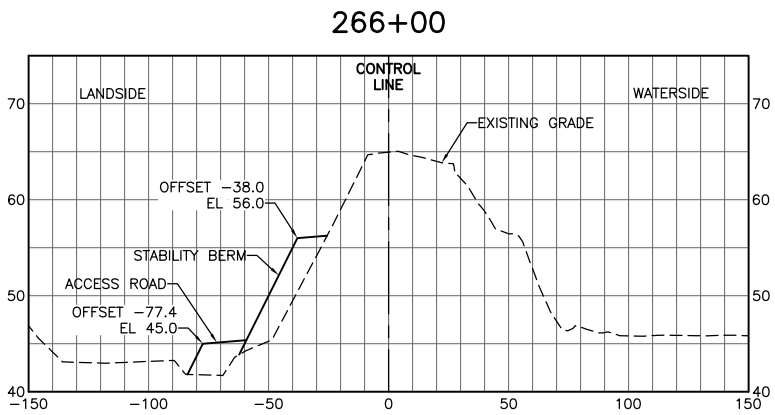
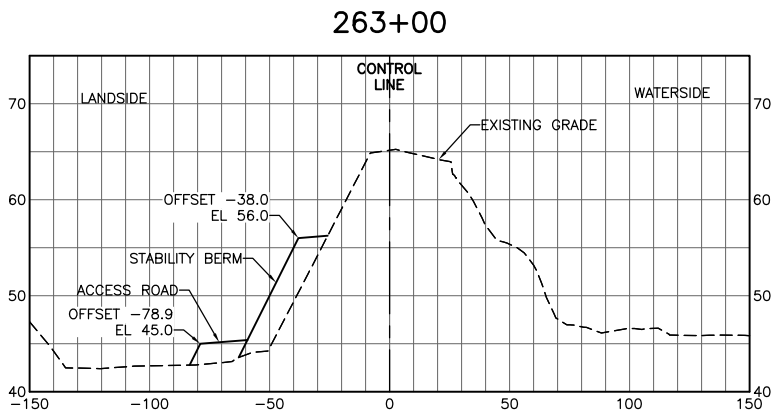
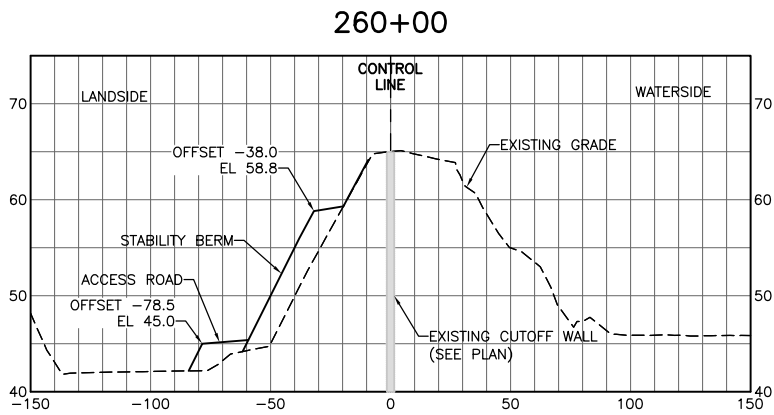
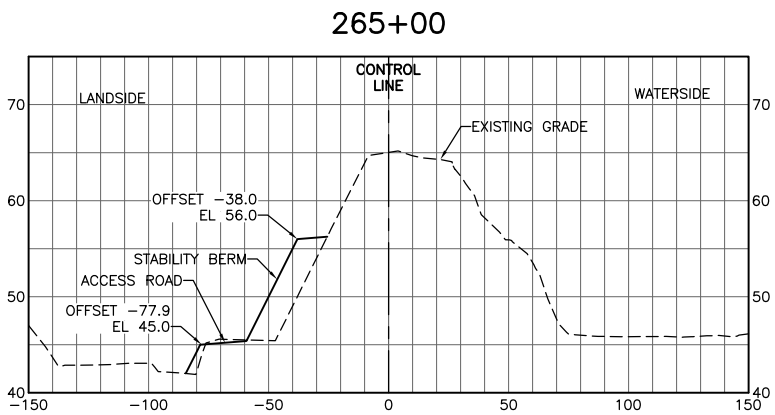
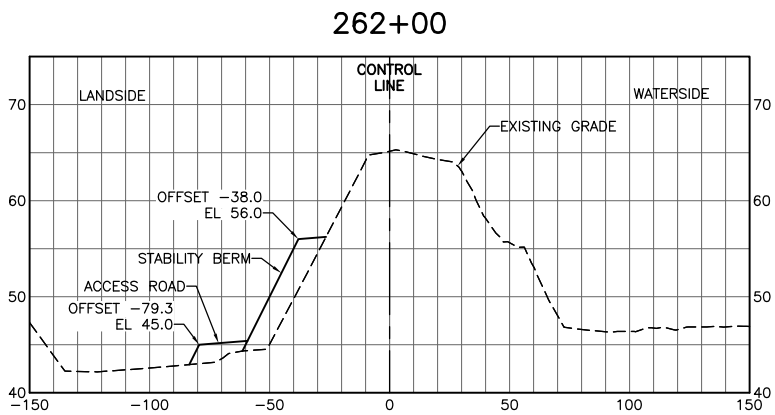
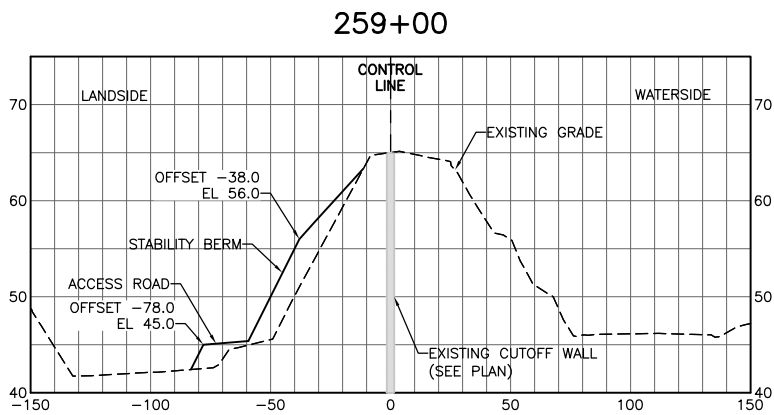
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 250+00 TO 258+00

FILENAME	C-617.dwg
SCALE	

SHEET
C-617



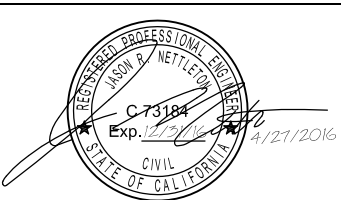


FOR BID



ISSUE	DATE	DESCRIPTION

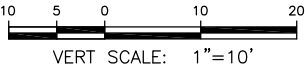
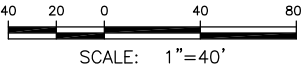
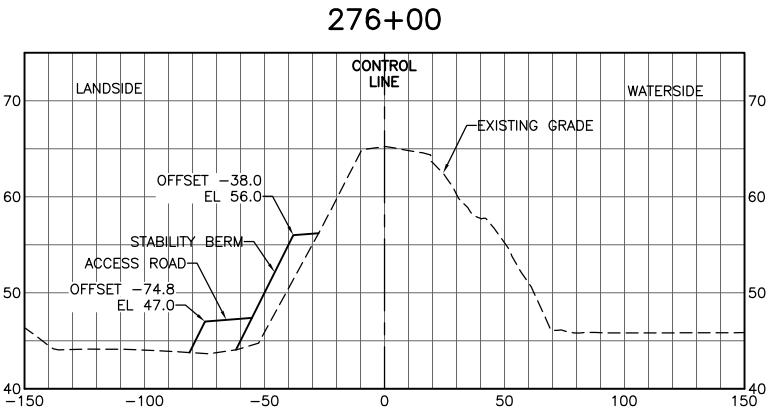
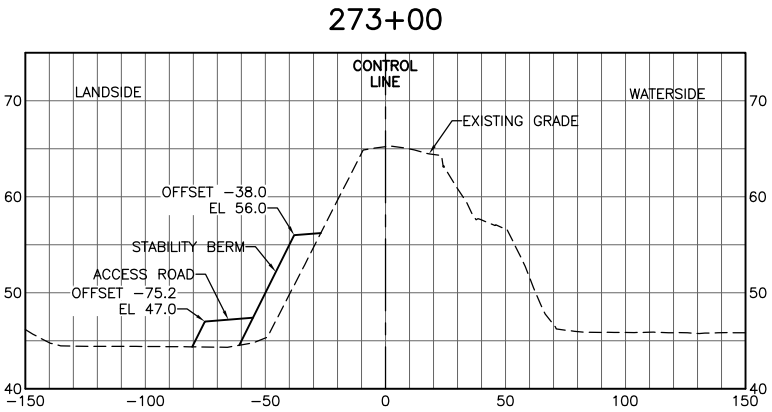
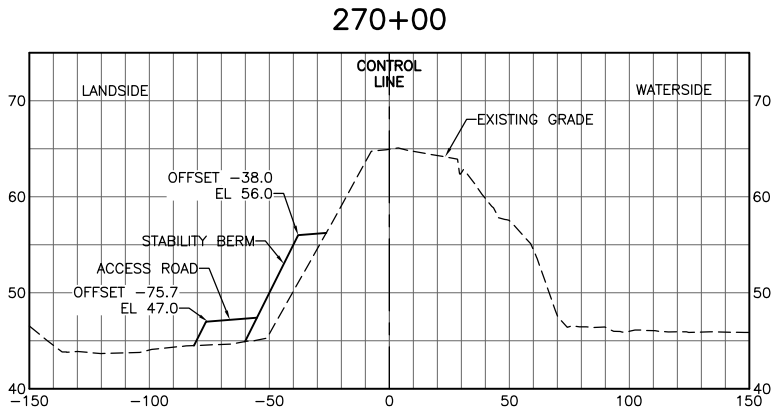
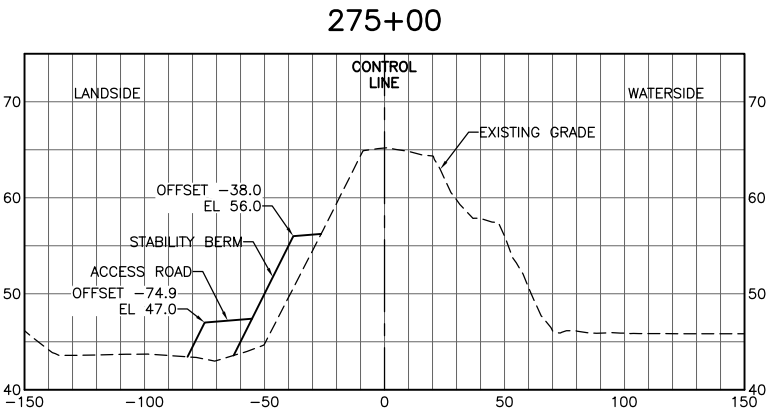
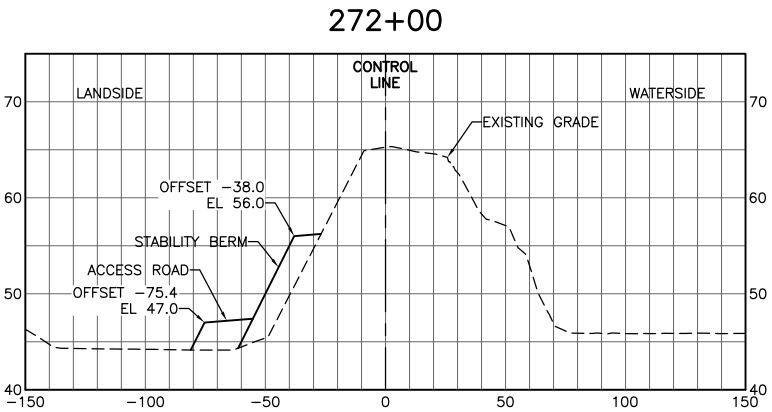
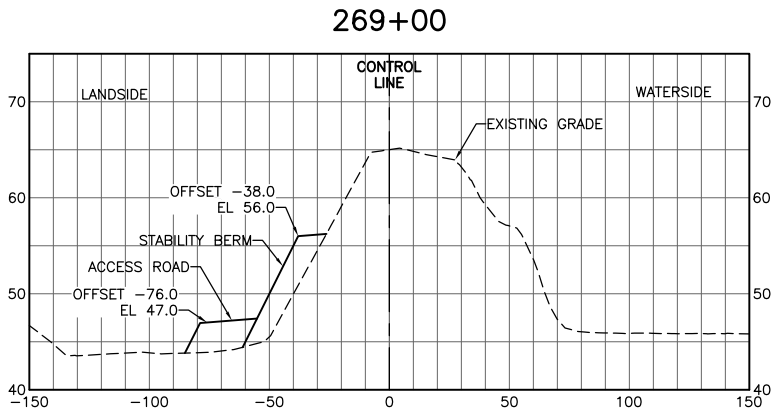
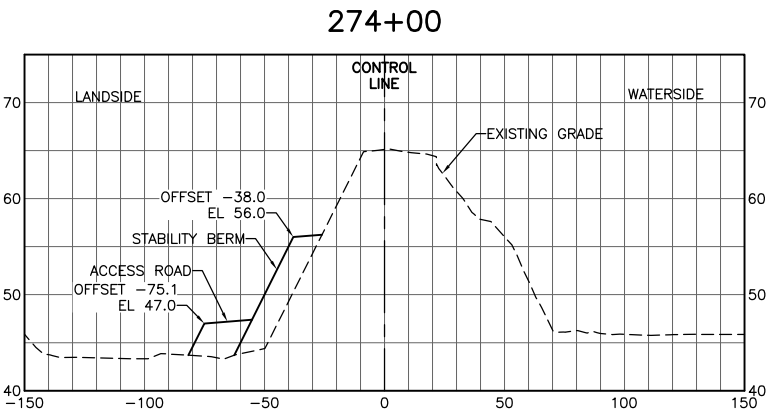
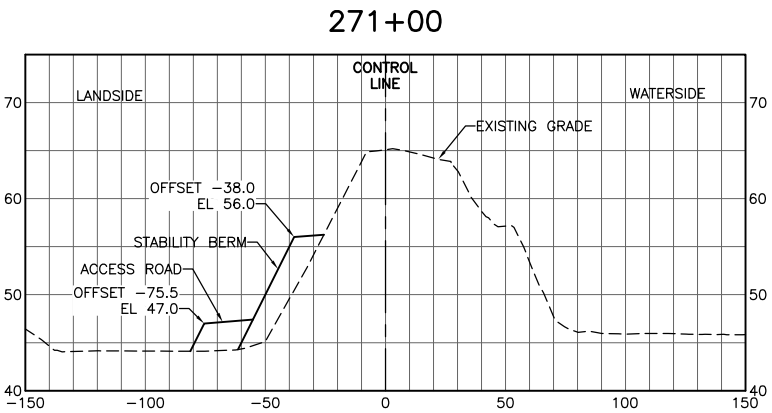
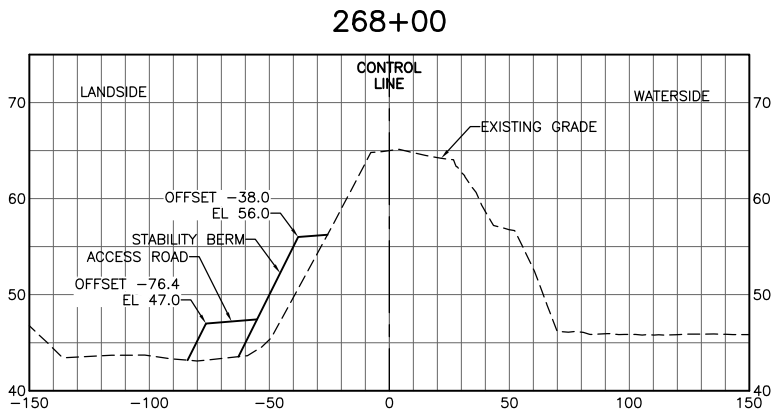
PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS STA 259+00 TO 267+00		
FILENAME	C-618.dwg	SHEET <b>C-618</b>
SCALE		

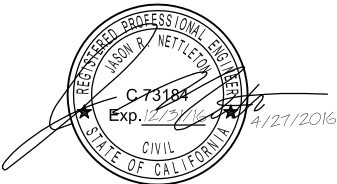


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

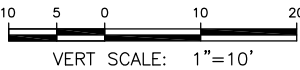
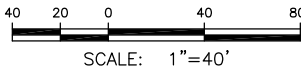
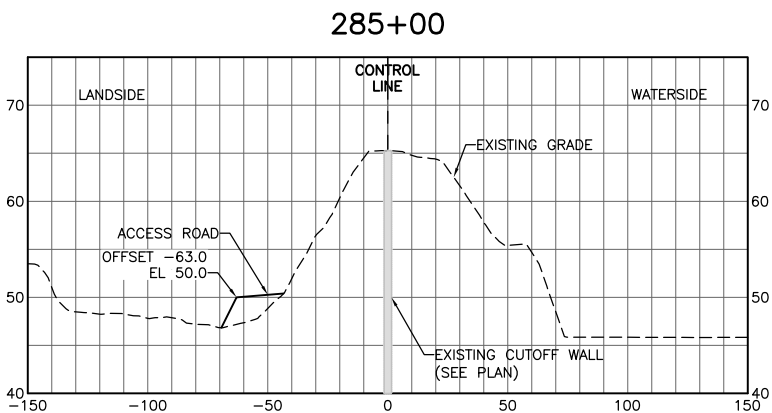
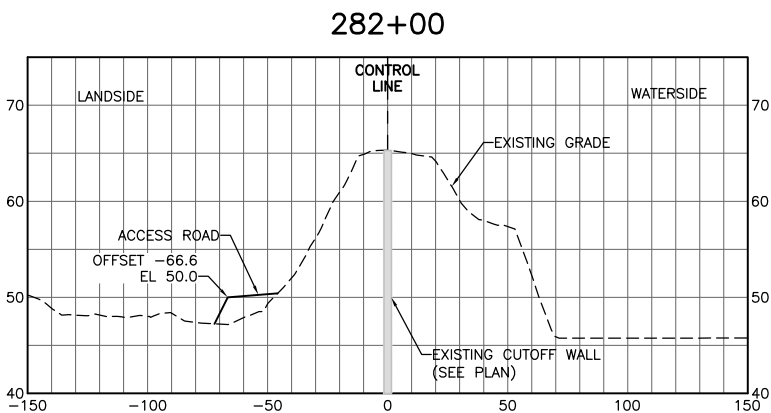
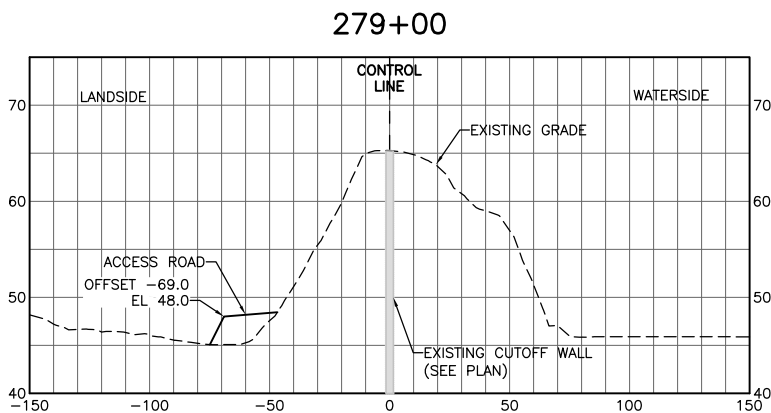
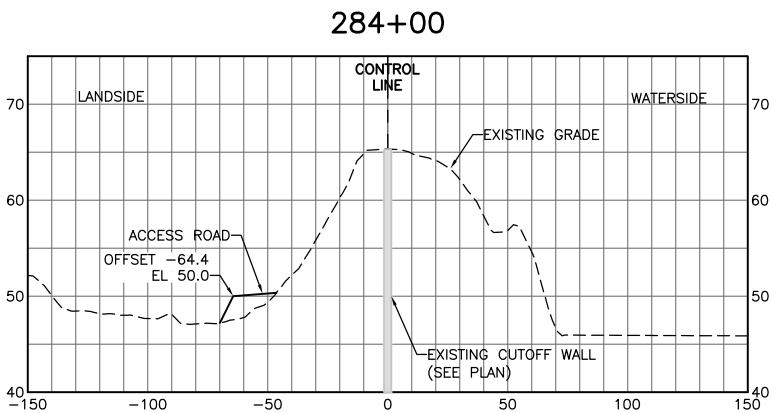
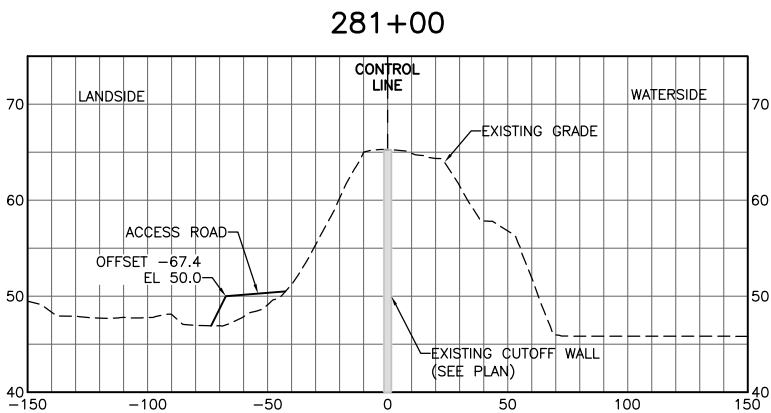
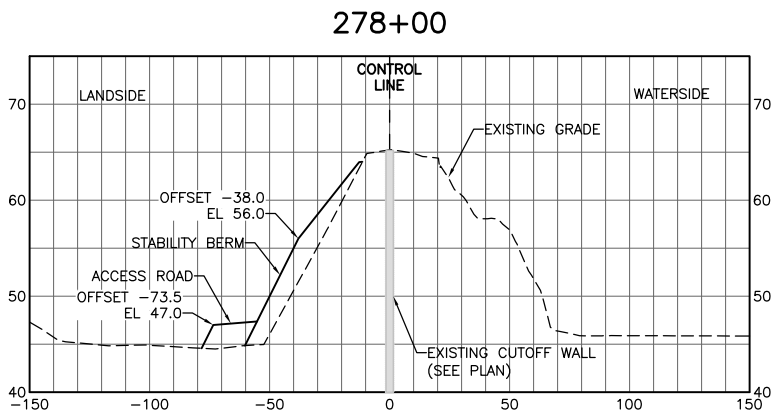
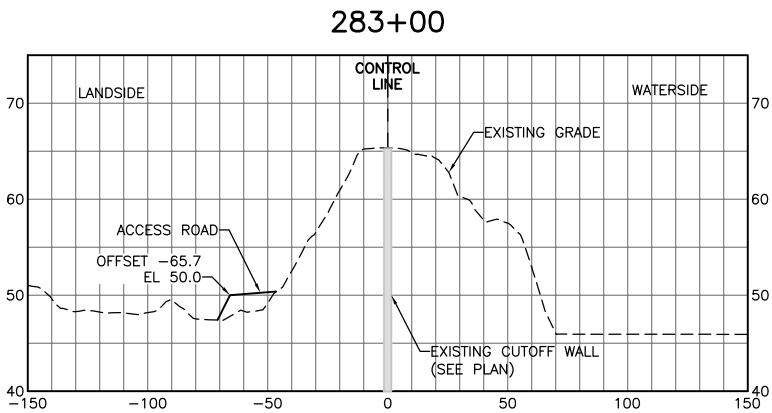
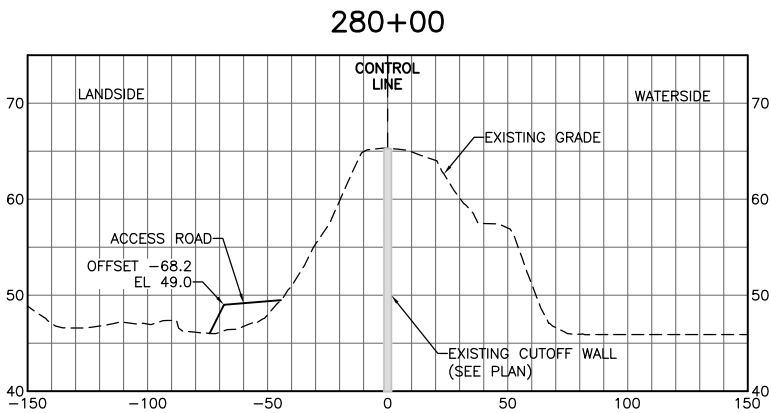
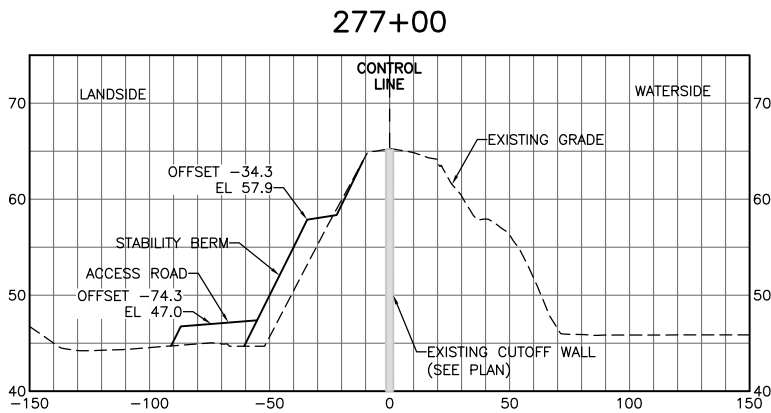
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 268+00 TO 276+00

FILENAME	C-619.dwg
SCALE	AS SHOWN

SHEET
C-619



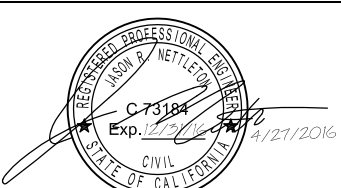


FOR BID



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	K. BROWN
DESIGNED BY	J. NETTLETON
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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



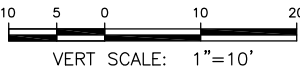
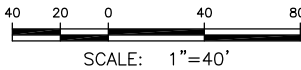
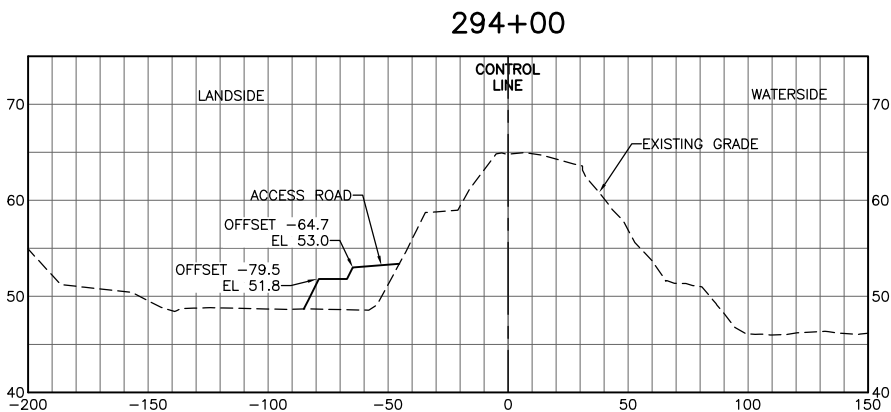
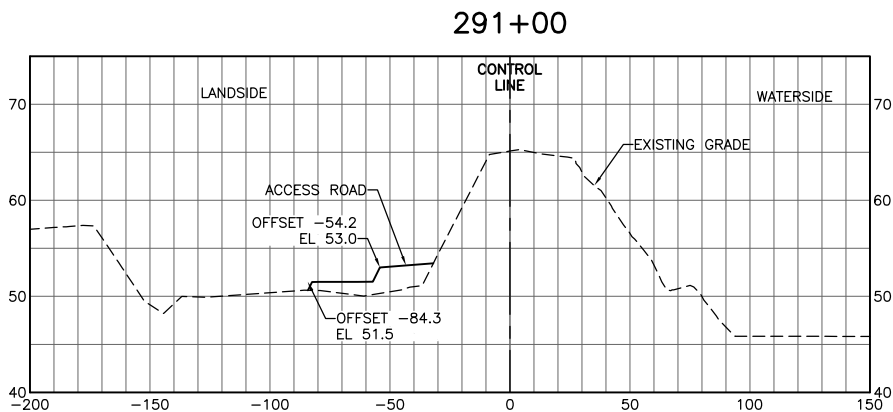
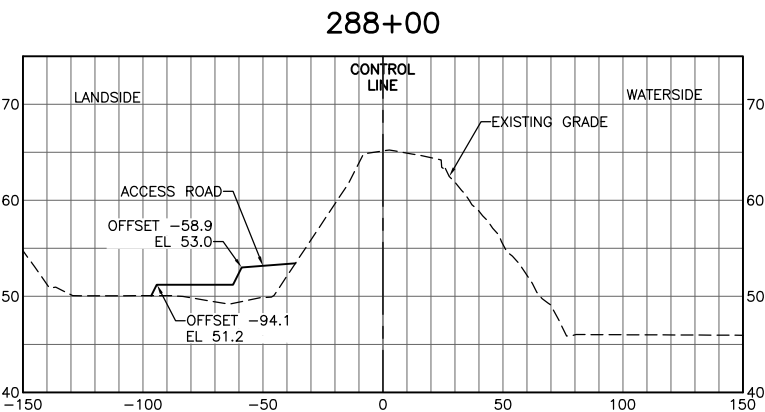
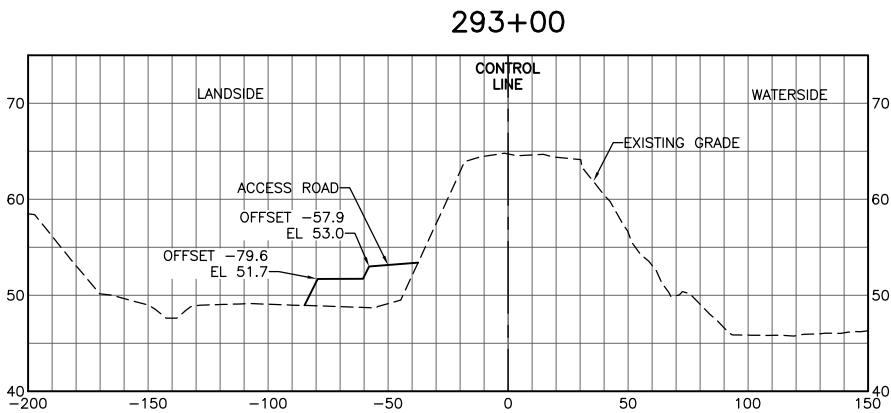
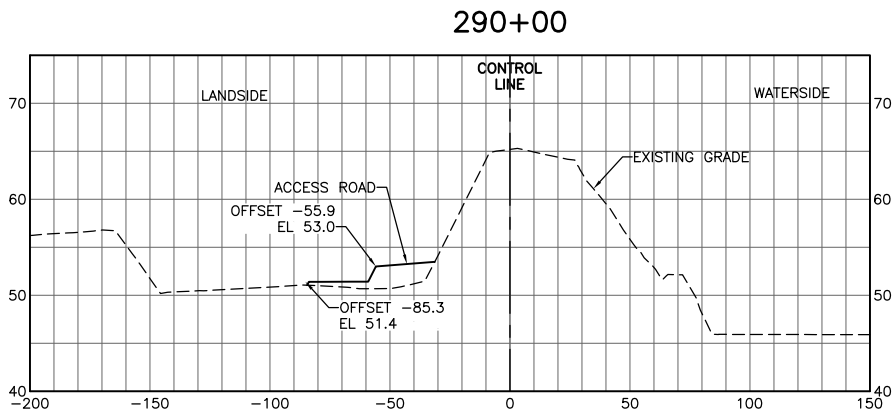
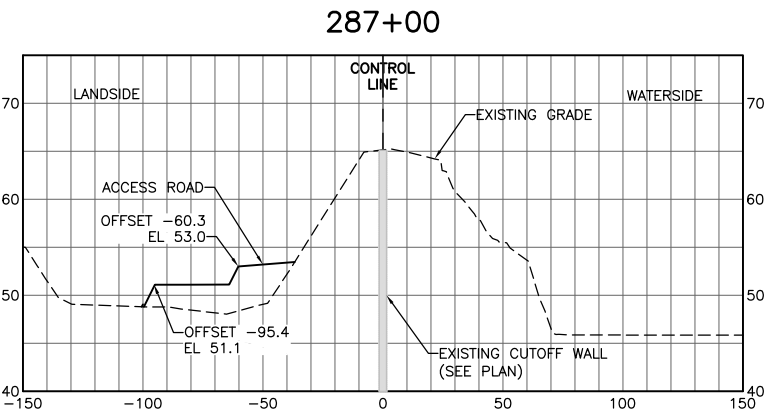
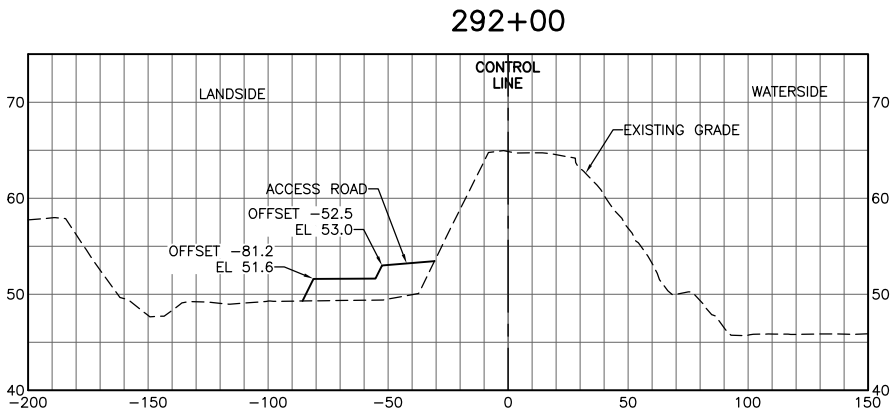
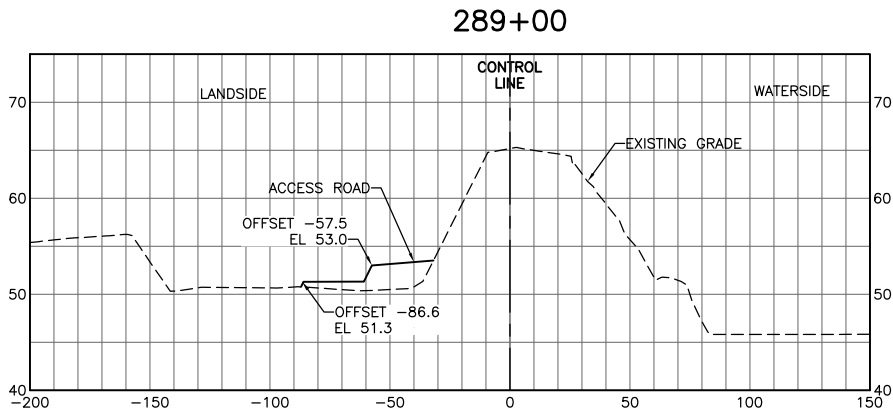
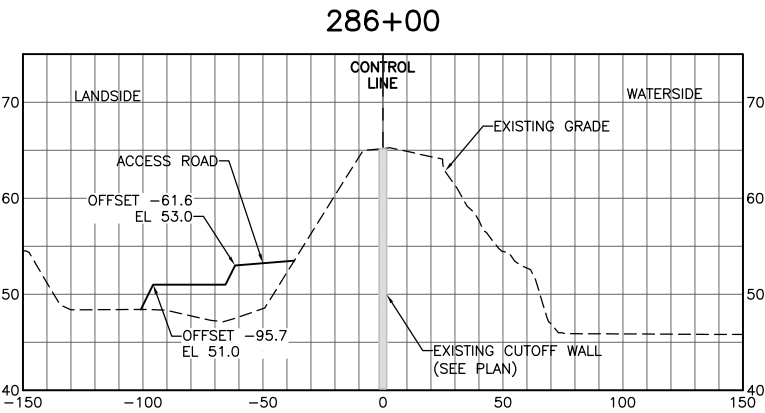
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 277+00 TO 285+00

FILENAME	C-620.dwg
SCALE	AS SHOWN

SHEET
C-620

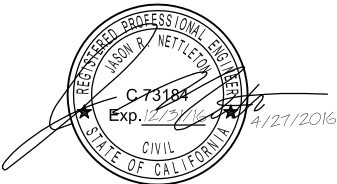


FOR BID



ISSUE	DATE	DESCRIPTION

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DESIGNED BY	J. NETTLETON
DRAWN BY	A. JACKSON
CHECKED BY	P. HRADILEK
TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



Three Rivers Levee Improvement Authority

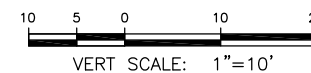
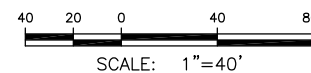
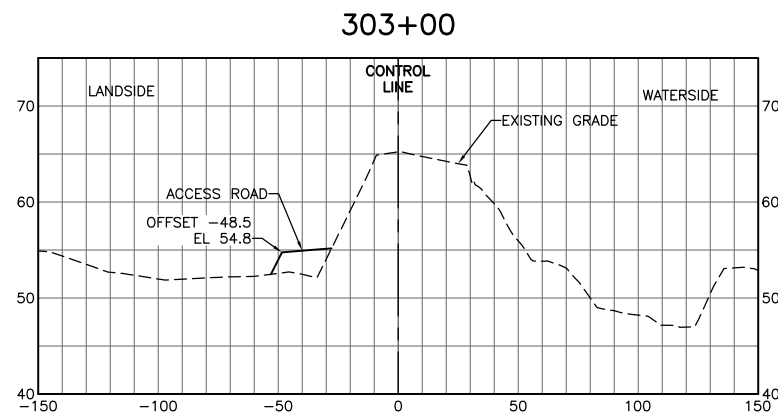
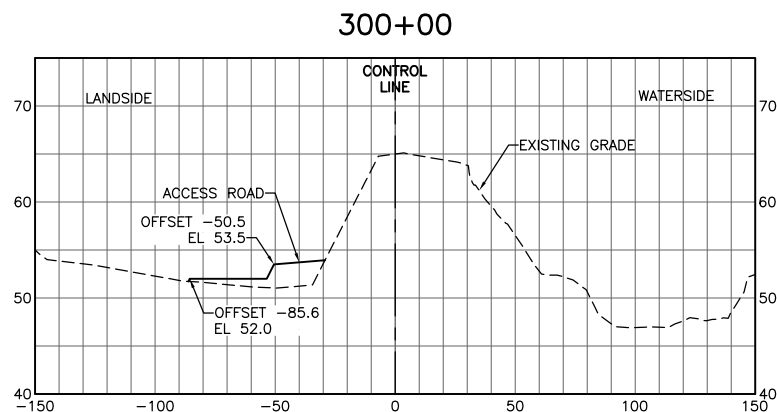
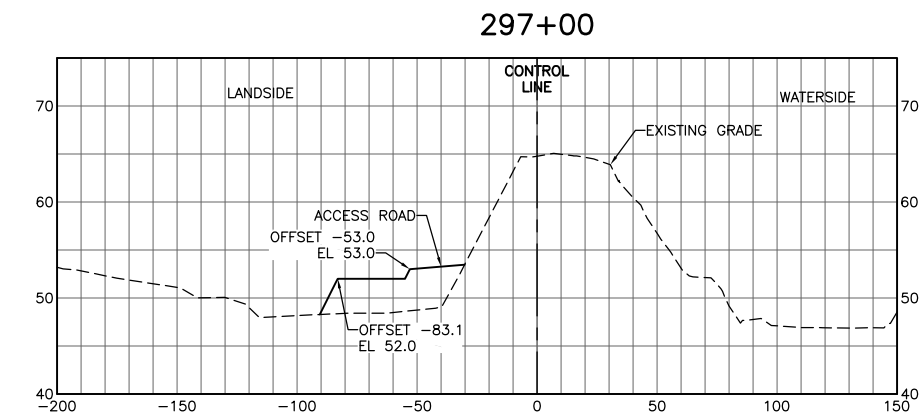
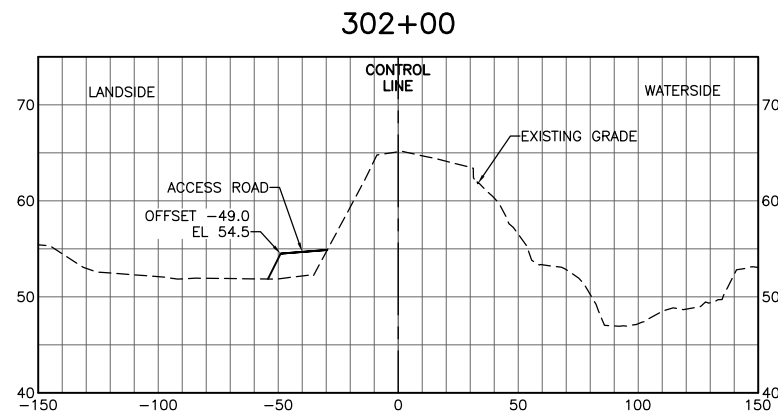
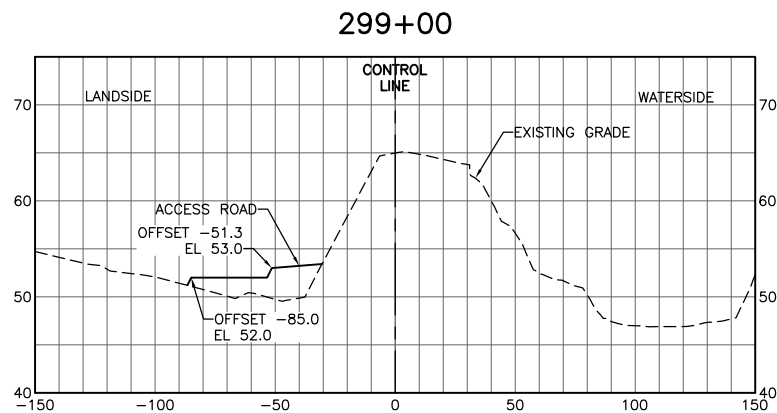
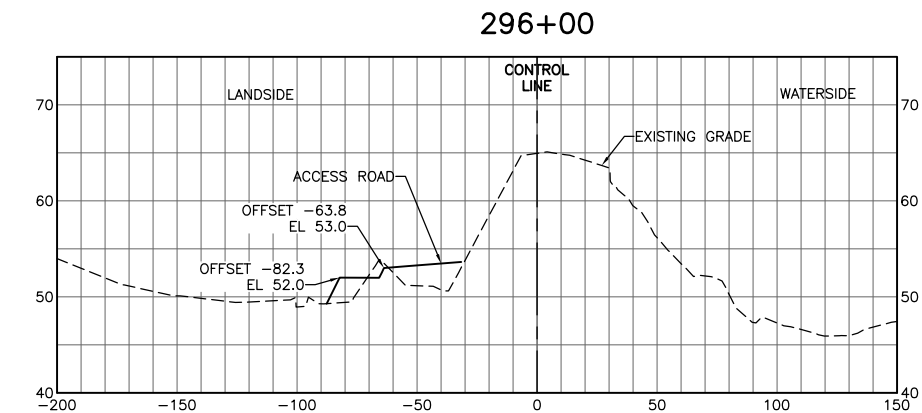
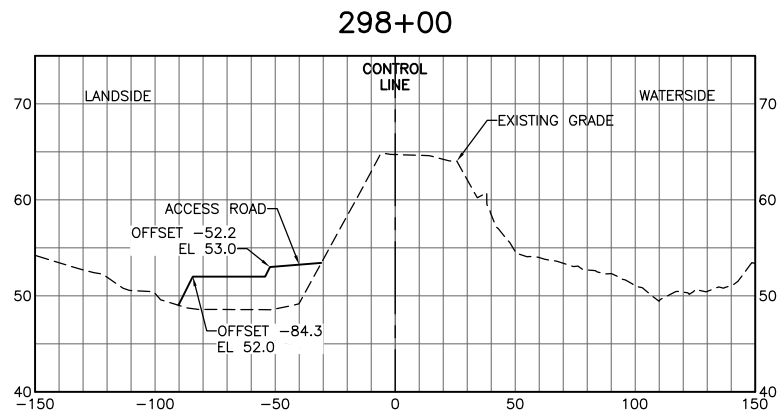
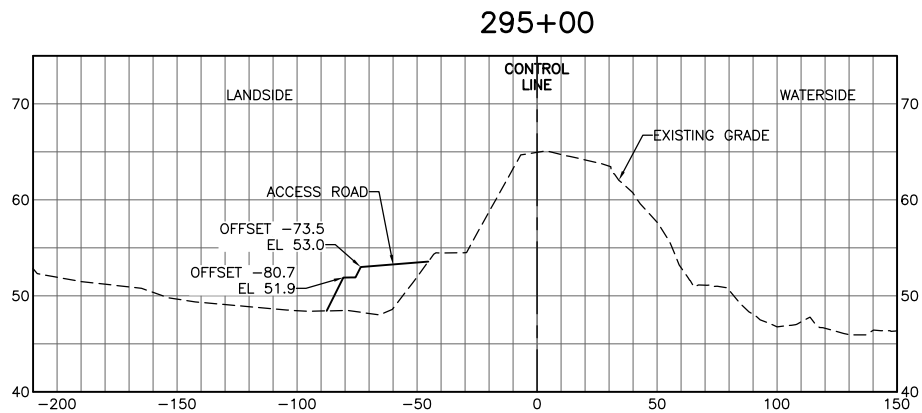
TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 286+00 TO 294+00

FILENAME	C-621.dwg
SCALE	AS SHOWN

SHEET
C-621



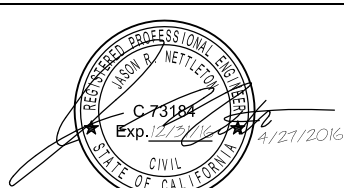


FOR BID



ISSUE	DATE	DESCRIPTION

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TECHNICAL LEAD	D. JABBOUR
PROJECT NUMBER	242159
DATE	4/27/2016



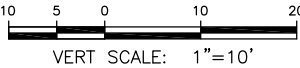
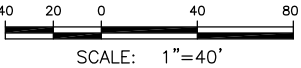
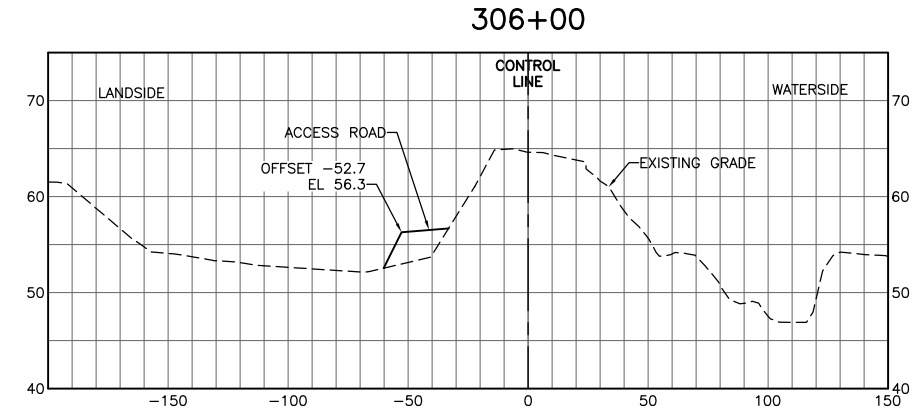
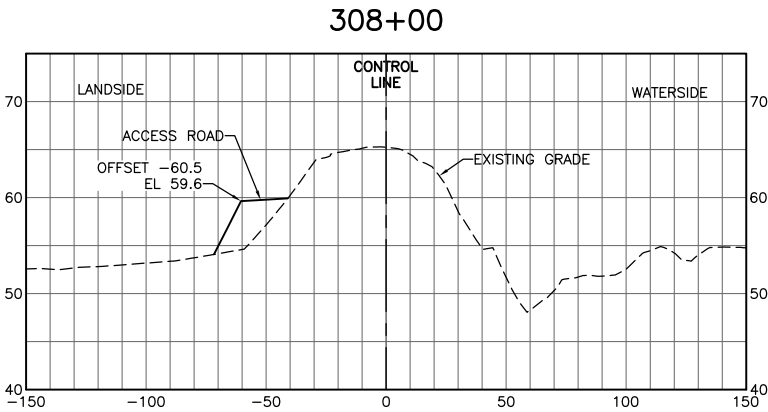
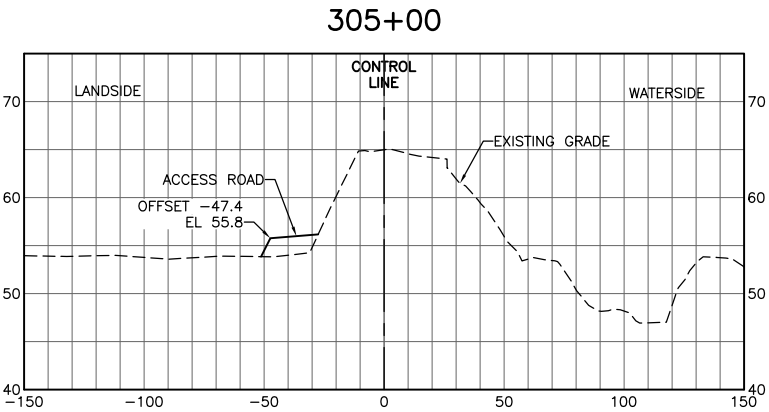
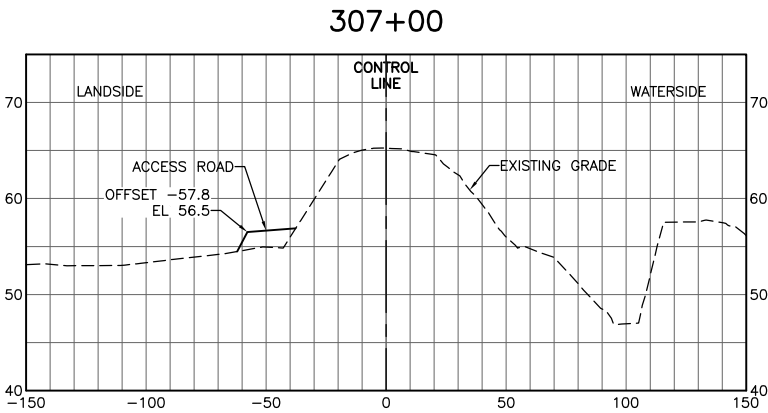
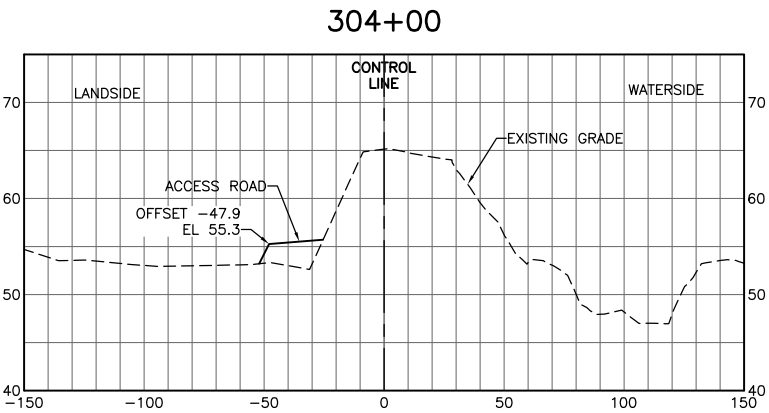
Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 295+00 TO 303+00

FILENAME	C-622.dwg
SCALE	AS SHOWN

SHEET
C-622

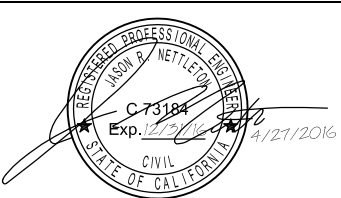


FOR BID



ISSUE	DATE	DESCRIPTION

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DESIGNED BY	J. NETTLETON
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TECHNICAL LEAD	D. JABBOUR
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DATE	4/27/2016



Three Rivers Levee Improvement Authority

TRLIA  
WPIC West Levee  
Improvement Project  
Sta 0+00 to 310+00

LEVEE CROSS SECTIONS  
STA 304+00 TO 308+00

FILENAME	C-623.dwg	SHEET
SCALE	AS SHOWN	C-623