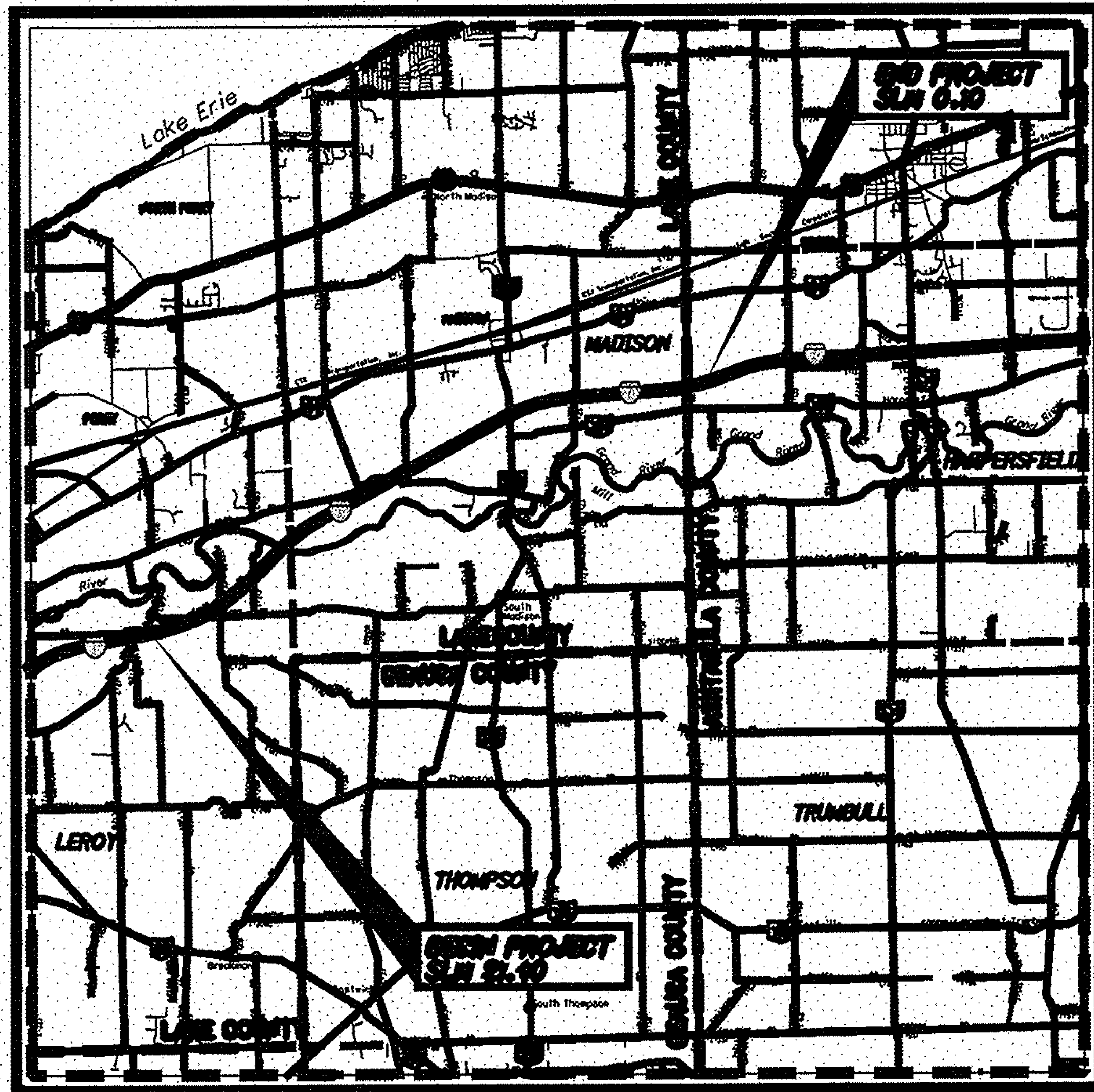


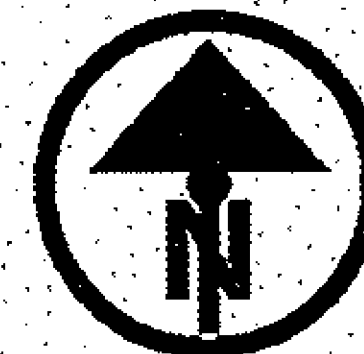
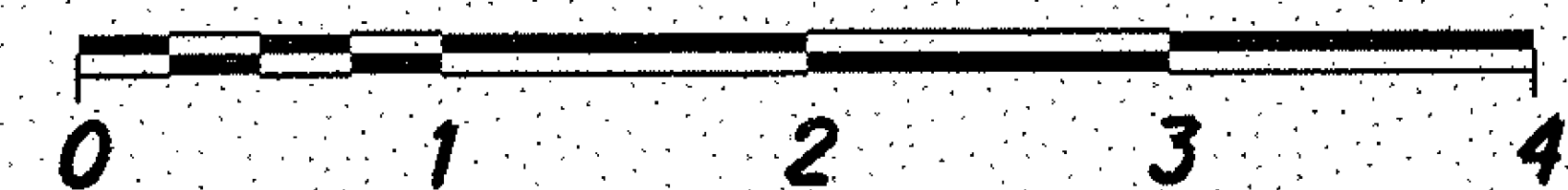
LAK / ATB - 90 - 21.40
100054 PID 75477
DIST 12 2/25/2010



LOCATION MAP

LATITUDE: N 41°44'50" LONGITUDE: W 81°04'36"

SCALE IN MILES



PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
STATE & FEDERAL ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2010) 40,850
DESIGN YEAR ADT (2030) 48,350
DESIGN HOURLY VOLUME (2030) 4,835
DIRECTIONAL DISTRIBUTION 57%
TRUCKS (24 HOUR B&C) 27%
DESIGN SPEED 70 MPH
LEGAL SPEED 65 MPH
DESIGN FUNCTIONAL CLASSIFICATION:
RURAL INTERSTATE

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 PRODUCTION
9600 JACKSONTOWN RD. SE
JACKSONTOWN, OHIO 43030
(740) 323-4400

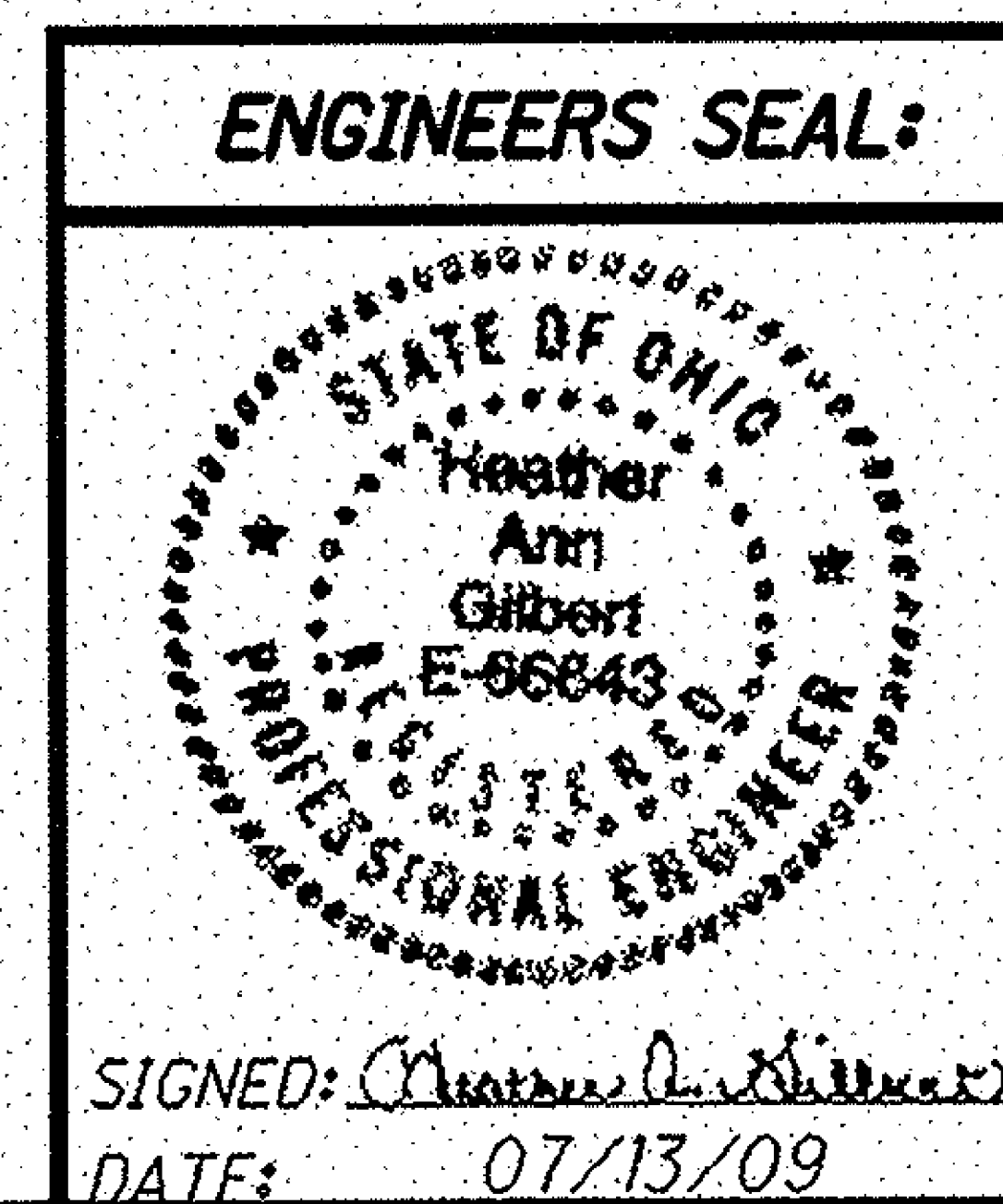
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
LAK-90-21.40/
ATB-90-0.00

LEROY TOWNSHIP
PERRY TOWNSHIP
MADISON TOWNSHIP
MADISON VILLAGE
LAKE COUNTY
HARPERSFIELD TOWNSHIP
ASHTABULA COUNTY

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STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS
BP-2.1	7-18-08	GR-5.2	1-16-04	MT-95.30	7-17-09	TC-65.10	1-21-05	HL-60.12	10-19-07	800 10-16-09
BP-2.2	7-18-08	GR-5.3	1-16-04	MT-95.40	7-17-09	TC-65.11	1-21-05	HL-60.31	1-19-07	802 1-16-09
BP-3.1	10-19-07	GR-6.2	4-18-03	MT-95.70	7-17-09	TC-72.20	10-16-09			832 5-05-09
BP-6.1	7-28-00			MT-95.82	9-05-06	TC-73.10	1-19-01			837 4-18-08
BP-9.1	4-15-05	RM-4.1	10-20-06	MT-98.10	7-17-09					
		RM-4.2	10-19-07	MT-98.11	7-17-09	HL-10.11	4-17-09			
CB-3.1	7-15-05	RM-4.5	10-16-09	MT-98.21	7-17-09	HL-10.12	1-19-07			
		RM-4.6	10-16-09	MT-98.28	7-17-09	HL-10.13	10-16-09			937 4-20-07
HW-2.2	4-21-06			MT-98.29	7-17-09	HL-20.11	1-19-07			
		DM-1.1	4-21-06	MT-100.00	1-16-09	HL-30.11	10-16-09			
		DM-1.2	10-21-05	MT-101.60	4-17-09	HL-30.21	1-19-07			
GR-1.1	7-16-04	DM-1.4	4-21-06	MT-101.70	1-16-09	HL-30.22	4-17-09			
GR-2.1	1-16-04	DM-4.3	4-17-09	MT-101.90	1-16-09	HL-40.10	1-19-07			
GR-3.1	10-16-09	DM-4.4	4-17-09	MT-102.10	7-17-09	HL-40.20	1-19-07			
GR-3.2	10-16-09	DM-5.1	7-19-02	MT-102.20	4-17-09	HL-50.11	1-19-07			
GR-4.2	1-19-07	MT-35.10	4-20-01	MT-105.10	1-16-09	HL-60.11	1-19-07			

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF RECONSTRUCTING 7 MILES OF I. R. 90. THE EXISTING PAVEMENT WILL BE REPLACED AND THE OUTSIDE SHOULDERS WILL BE WIDENED TO 12 FEET. THE RAMP PAVEMENTS AT S.R. 528 WILL BE REPLACED.

PROJECT EARTH DISTURBED AREA: 170 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 19 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 189 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2008 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED: [Signature] DISTRICT DEPUTY DIRECTOR
DATE: 7/13/09

APPROVED: [Signature] DIRECTOR, DEPARTMENT OF TRANSPORTATION
DATE: 7-28-09

FEDERAL PROJECT NO.
E080604

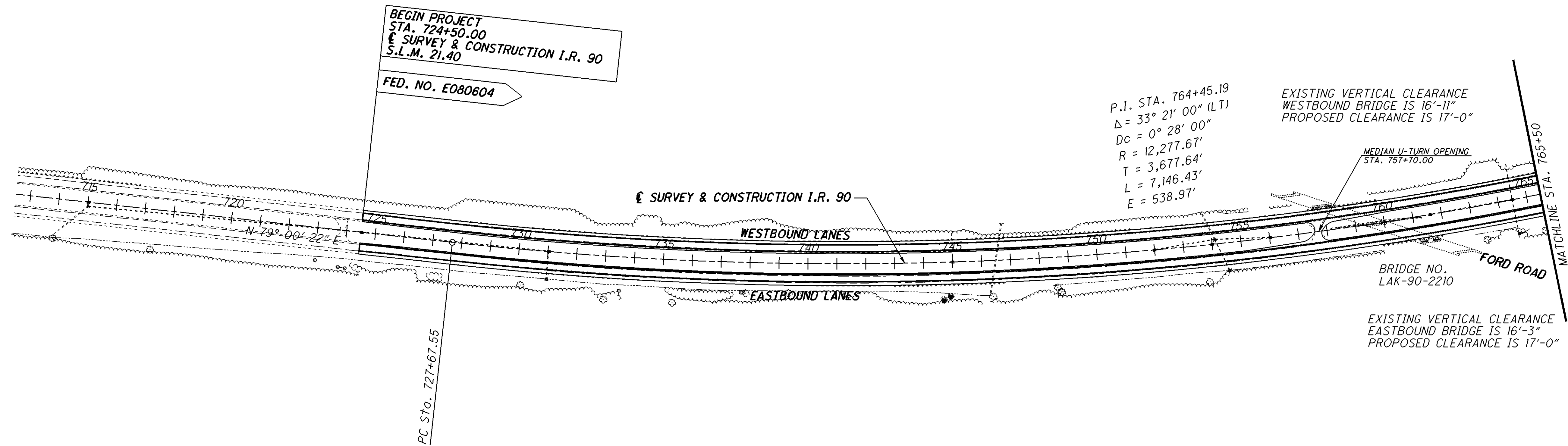
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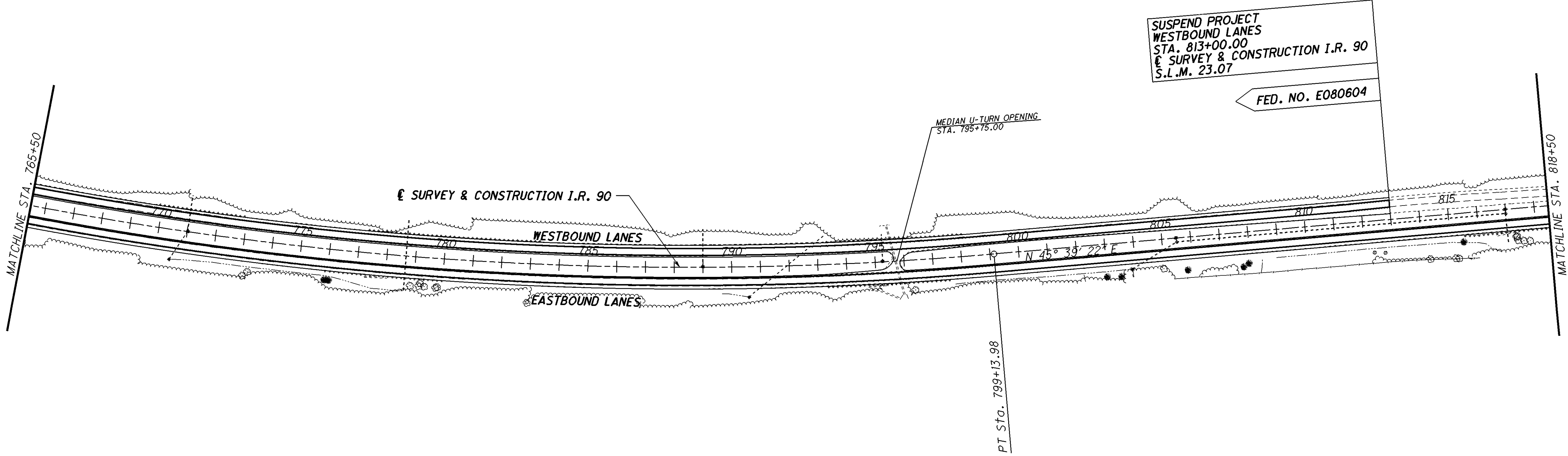
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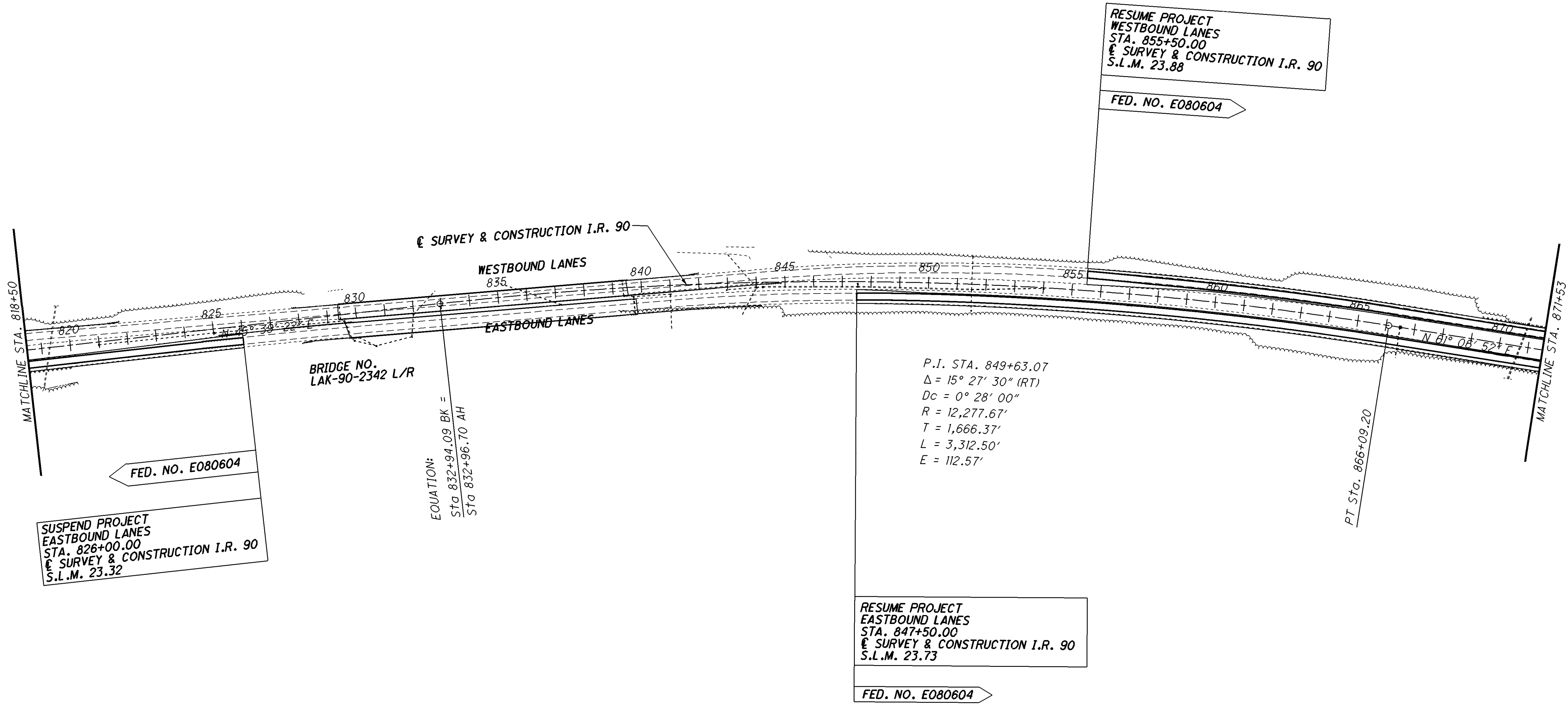
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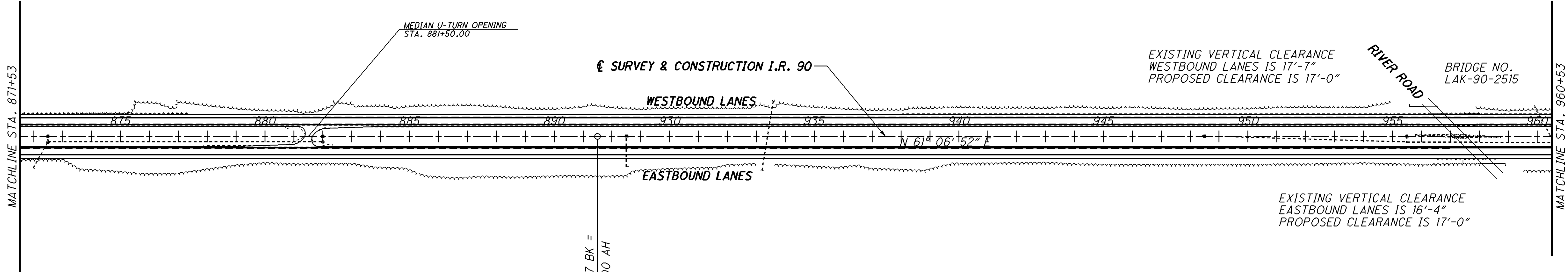
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ATB-90-0.00

498

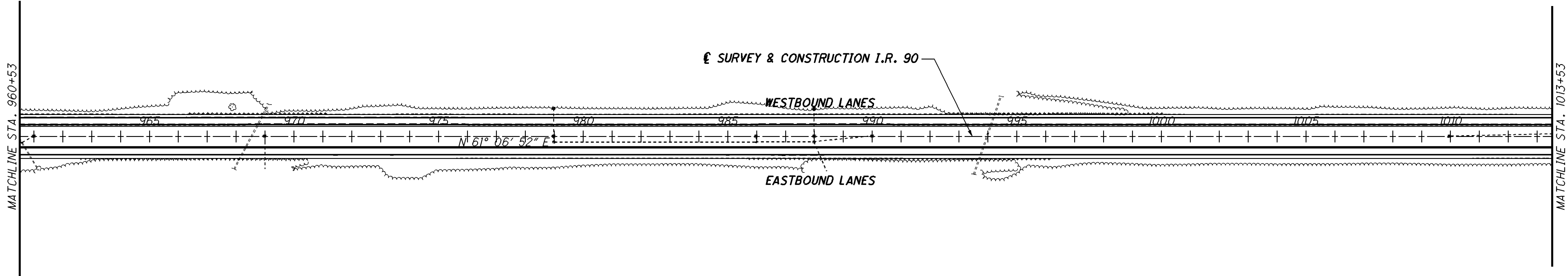


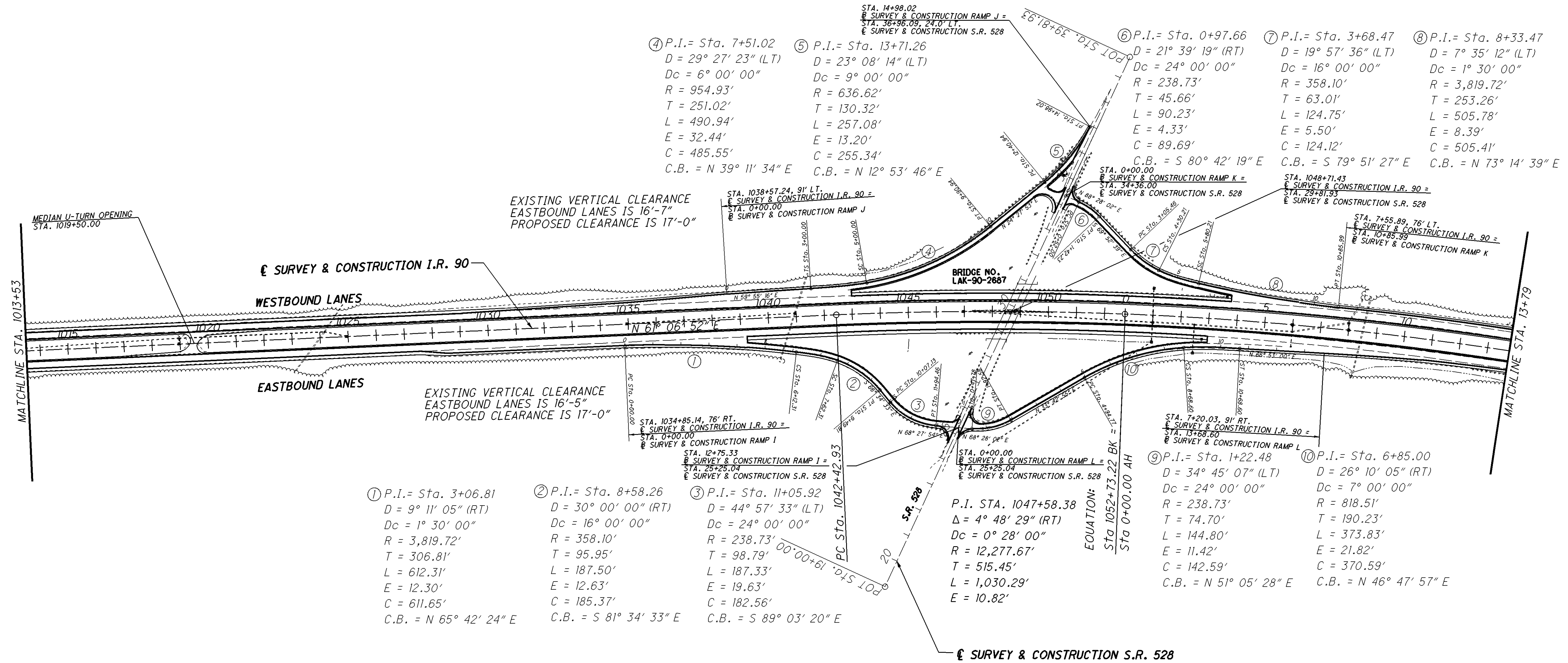


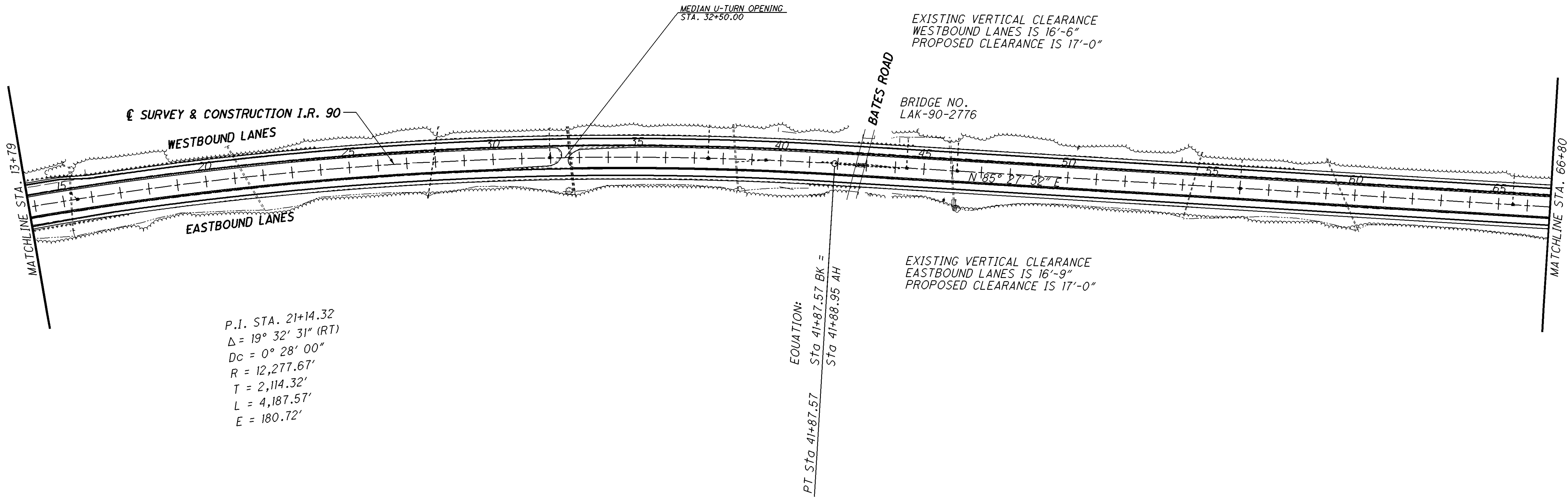


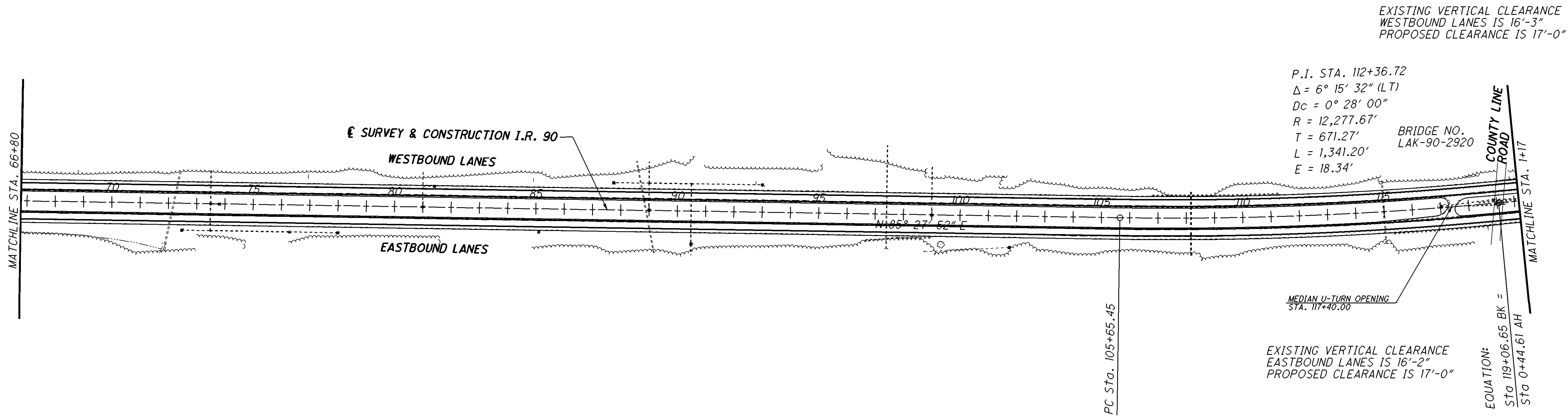


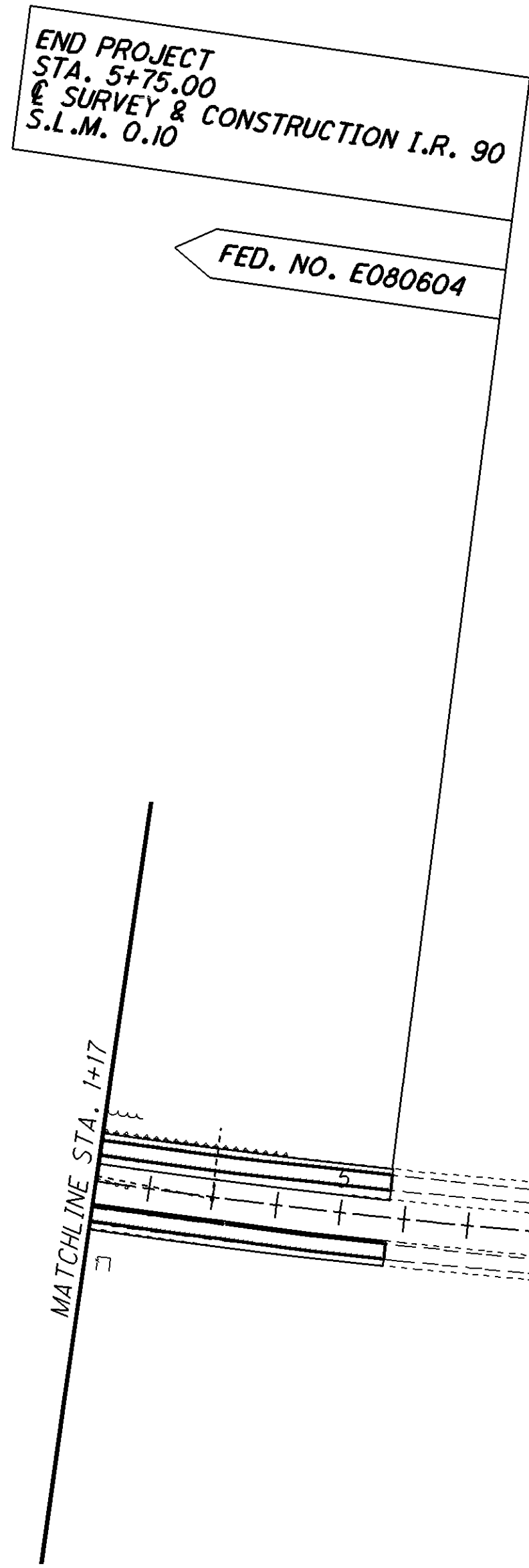
		HORIZONTAL SCALE IN FEET	
		CALCULATED M.M.	CHECKED J.C.
SCHEMATIC PLAN			
STA. 871+53 TO STA. 960+53			
LAK-90-21.40 ATB-90-0.00			
5 498			











P.I. STA. 11+91.42
 $\Delta = 10^\circ 40' 21''$ (LT)
 $Dc = 0^\circ 28' 00''$
 $R = 12,277.67'$
 $T = 1,146.81'$
 $L = 2,286.99'$
 $E = 53.44'$

WESTBOUND LANES
EASTBOUND LANES

SURVEY & CONSTRUCTION I.R. 90

PT Sta. 23+31.60

10 15 20 25 30 35 40 45 50
 $N 68^\circ 31' 59'' E$

EXISTING CENTERLINE REFERENCE MONUMENTS							
POINT REF.	STATE PLANE GRID		CENTERLINE I.R. 90	OFFSET	SIDE	ELEVATION	DESCRIPTION
	NORTHING	EASTING					
7904	754,012.96	2,346,863.21	796+16.10	81.18	RT	841.67	HUB
8118	755,646.09	2,348,545.71	819+58.91	85.61	RT	810.49	HUB
13406	755,810.11	2,348,476.92	820+24.36	79.78	LT	811.50	HUB
13505	754,081.28	2,346,698.50	795+41.61	80.83	LT	842.25	HUB
15359	761,717.82	2,357,889.41	967+87.25	79.79	RT	830.70	HUB
2297	750,083.32	2,336,036.48	679+31.98	0.64	RT	811.59	CMON
2299	750,401.81	2,337,675.83	696+01.98	0.62	RT	830.01	CMON
2305	751,487.69	2,342,549.95	746+00.41	0.75	RT	852.47	CMON
2306	751,799.26	2,343,340.81	754+50.54	1.16	RT	850.04	CMON
2308	752,609.76	2,344,888.79	771+99.27	0.09	LT	857.30	CMON
2309	753,110.04	2,345,636.79	780+99.35	0.09	LT	857.38	CMON
2310	753,664.05	2,346,346.45	789+99.86	0.11	LT	846.17	CMON
2311	754,278.02	2,347,023.39	799+13.98	0.05	LT	834.39	CMON
2312	754,897.26	2,347,657.13	808+00.03	0.05	RT	822.63	CMON
2313	755,456.61	2,348,229.39	843+95.16	17.49	LT	812.52	CMON
2318	758,141.82	2,351,312.36	856+99.87	0.11	RT	801.20	CMON
2319	758,611.01	2,352,092.90	866+10.78	0.00	CL	805.27	CMON
2320	759,040.68	2,352,871.46	875+00.00	0.12	LT	807.60	CMON
2321	759,427.15	2,353,571.83	882+99.96	0.19	LT	812.90	CMON
2322	759,837.67	2,354,315.79	927+50.00	0.25	LT	822.94	CMON
2323	760,248.33	2,355,059.82	935+99.84	0.41	LT	832.27	CMON
2324	760,683.24	2,355,847.94	944+99.99	0.50	LT	834.76	CMON
2325	761,118.18	2,356,636.06	954+00.17	0.62	LT	831.44	CMON
2326	761,504.29	2,357,335.63	961+99.22	0.76	LT	829.64	CMON
2327	761,890.73	2,358,036.01	969+99.13	0.79	LT	827.05	CMON
2328	762,277.24	2,358,736.62	977+99.28	0.78	LT	823.57	CMON
2329	762,711.50	2,359,524.13	986+98.59	0.60	LT	821.52	CMON
2330	763,097.97	2,360,224.85	994+98.82	0.49	LT	822.49	CMON
2333	764,449.78	2,362,675.51	1022+97.59	0.30	LT	806.61	CMON
2334	764,932.10	2,363,549.68	1032+95.99	0.33	LT	802.92	CMON
2335	765,389.48	2,364,379.22	1042+43.27	0.09	LT	799.82	CMON
2336	765,848.51	2,365,300.88	1052+73.22	0.00	CL	796.85	CMON
2337	766,185.32	2,366,135.49	9+00.20	0.01	RT	794.67	CMON
2338	766,486.65	2,367,088.15	18+99.66	0.13	LT	797.86	CMON
2339	766,512.31	2,367,184.86	19+99.71	0.08	RT	797.60	CMON
2340	766,650.53	2,367,768.39	25+99.46	0.29	RT	795.43	CMON
2341	766,791.14	2,368,555.93	33+99.59	0.32	LT	789.71	CMON
2343	766,942.44	2,370,147.78	50+00.32	0.02	RT	792.17	CMON
2344	767,021.49	2,371,144.98	60+00.65	0.07	RT	796.08	CMON
2348	767,337.67	2,375,131.55	99+99.74	0.12	RT	810.32	CMON
2353	767,654.90	2,377,469.69	5+00.00	0.00	CL	808.78	CMON
6146	756,422.42	2,349,209.54	829+76.28	5.59	LT	801.88	CMON
6147	757,385.74	2,350,248.53	843+95.16	17.49	LT	798.41	CMON
6000	750,437.65	2,338,383.01	703+03.01	100.30	RT	836.98	IPINS
6003	750,797.13	2,340,145.96	721+02.17	83.62	RT	848.24	IPINS
6004	750,893.86	2,340,741.97	727+05.68	102.33	RT	851.36	IPINS
6005	751,019.79	2,341,325.38	732+98.17	101.53	RT	854.70	IPINS
6006	751,214.93	2,341,987.10	739+82.76	85.11	RT	857.79	IPINS
6007	751,378.48	2,342,488.37	745+06.49	83.42	RT	855.74	IPINS
6008	751,575.49	2,343,059.01	751+05.59	98.80	RT	854.02	IPINS
6009	751,890.97	2,343,575.29	757+01.89	13.20	RT	852.29	IPINS

EXISTING CENTERLINE REFERENCE MONUMENTS							
POINT REF.	STATE PLANE GRID		CENTERLINE I.R. 90	OFFSET	SIDE	ELEVATION	DESCRIPTION
	NORTHING	EASTING					
6010	752,088.81	2,344,149.88	763+02.52	88.23	RT	856.21	IPINS
6011	752,381.88	2,344,675.82	769+00.42	85.68	RT	858.86	IPINS
6012	752,700.95	2,345,192.60	775+03.62	85.64	RT	861.57	IPINS
6013	753,103.38	2,345,644.79	781+01.93	81.74	RT	858.47	IPINS
6014	753,398.98	2,346,178.31	787+02.89	98.08	RT	852.80	IPINS
6015	753,800.63	2,346,629.54	793+02.44	81.40	RT	845.57	IPINS
6016	754,263.08	2,347,019.67	799+00.88	8.04	RT	835.80	IPINS
6017	754,648.61	2,347,540.11	805+42.54	96.09	RT	829.96	IPINS
6018	755,033.15	2,347,944.17	811+00.29	103.50	RT	822.80	IPINS
6019	755,427.54	2,348,324.48	816+47.93	87.27	RT	814.40	IPINS
6020	755,957.63	2,348,718.45	823+00.20	16.45	LT	806.22	IPINS
6021	756,374.98	2,349,147.79	828+98.95	14.84	LT	801.14	IPINS
6024	757,552.35	2,350,506.34	847+00.59	12.65	RT	798.80	IPINS
6025	757,911.83	2,350,986.04	853+00.57	7.88	RT	802.12	IPINS
6026	758,165.92	2,351,537.69	859+03.44	101.40	RT	805.86	IPINS
6027	758,472.03	2,352,040.68	864+97.05	95.95	RT	805.89	IPINS
6028	758,777.16	2,352,561.61	871+01.45	80.94	RT	809.55	IPINS
6029	759,065.80	2,353,085.88	876+99.92	81.45	RT	812.34	IPINS
6030	759,345.44	2,353,618.44	883+01.31	93.88	RT	815.14	IPINS
6031	759,641.08	2,354,140.17	889+00.93	87.04	RT	822.10	IPINS
6032	759,880.84	2,354,569.63	929+93.11	84.57	RT	828.70	IPINS
6034	760,460.66	2,355,628.59	942+00.42	88.42	RT	838.24	IPINS
6035	760,819.98	2,356,112.37	947+97.58	7.51	RT	834.45	IPINS
6036	761,034.88	2,356,687.69	954+05.13	97.26	RT	834.86	IPINS
6038	761,688.72	2,357,690.84	965+99.32	9.35	RT	828.62	IPINS
6039	761,914.26	2,358,256.83	972+03.85	85.27	RT	828.91	IPINS
6040	762,207.67	2,358,780.03	978+03.69	81.11	RT	827.82	IPINS
6041	762,494.06	2,359,300.99	983+98.18	82.00	RT	826.07	IPINS
6042	762,783.58	2,359,828.65	990+00.04	83.39	RT	825.03	IPINS
6043	763,074.59	2,360,355.09	996+01.56	82.90	RT	827.05	IPINS
6044	763,351.76	2,360,886.09	1002+00.39	96.71	RT	826.26	IPINS
6045	763,655.10	2,361,408.35	1008+04.21	83.40	RT	822.80	IPINS
6046	763,944.25	2,361,933.66	1014+03.84	83.98	RT	817.86	IPINS
6047	764,234.72	2,362,457.78	1020+03.07	82.83	RT	812.24	IPINS
6048	764,584.56	2,362,942.93	1025+96.84	10.87	RT	807.04	IPINS
6049	764,801.97	2,363,513.47	1032+01.43	96.11	RT	806.29	IPINS
6050	765,078.38	2,364,047.37	1038+02.43	112.00	RT	804.04	IPINS
6051	765,375.64	2,364,565.92	1044+01.37	101.20	RT	803.66	IPINS
6052	765,638.02	2,365,101.83	1050+03.21	108.03	RT	801.46	IPINS
6053	765,859.53	2,365,627.51	3+05.71	119.43	RT	796.97	IPINS
6054	766,060.95	2,366,183.58	9+03.18	133.32	RT	796.54	IPINS
6055	766,295.10	2,366,735.55	15+06.33	85.93	RT	799.56	IPINS
6056	766,459.07	2,367,307.99	21+05.95	82.45	RT	802.07	IPINS
6057	766,588.89	2,367,887.73	27+04.18	84.86	RT	798.68	IPINS
6058	766,684.29	2,368,476.03	33+04.52	93.66	RT	793.64	IPINS
6059	766,768.66	2,369,063.22	39+02.05	84.19	RT	791.28	IPINS
6060	766,818.63	2,369,703.25	45+47.39	88.28	RT	793.76	IPINS
6061	766,868.10	2,370,259.89	51+06.21	82.99	RT	796.69	IPINS
6062	766,981.80	2,370,843.44	56+96.92	15.79	RT	796.90	IPINS
6063	766,964.09	2,371,451.38	63+01.55	81.51	RT	801.27	IPINS
6064	767,006.18	2,372,052.45	69+04.07	87.09	RT	803.92	IPINS

EXISTING CENTERLINE REFERENCE MONUMENTS							
POINT REF.	STATE PLANE GRID		CENTERLINE I.R. 90	OFFSET	SIDE	ELEVATION	DESCRIPTION
	NORTHING	EASTING					
6065	767,036.14	2,372,651.98	75+04.09	104.63	RT	805.36	IPINS
6066	767,080.63	2,373,248.40	81+02.15	107.45	RT	807.59	IPINS
6067	767,137.96	2,373,845.18	87+01.61	97.49	RT	810.12	IPINS
6068	767,190.93	2,374,442.91	93+01.65	91.95	RT	812.44	IPINS
6069	767,242.63	2,375,031.40	98+92.39	86.95	RT	813.61	IPINS
6070	767,290.97	2,375,637.62	105+00.53	86.69	RT	815.78	IPINS
6071	767,354.22	2,376,243.18	111+05.70	83.49	RT	816.59	IPINS
6072	767,417.00	2,376,836.48	116+97.22	108.46	RT	814.04	IPINS
6073	767,481.89	2,377,137.85	1+40.76	99.73	RT	813.00	IPINS
6074	767,556.81	2,376,509.98	113+97.33	81.34	LT	815.77	IPINS
6075	767,417.56	2,375,927.47	107+99.77	14.35	LT	815.35	IPINS
6076	767,440.97	2,375,322.32	101+98.09	87.77	LT	815.85	IPINS
6077	767,412.38	2,374,722.92	95+98.30	106.67	LT	812.63	IPINS
6078	767,362.77	2,374,127.38	90+00.70	104.30	LT	809.42	IPINS
6079	767,310.68	2,373,530.90	84+01.97	99.55	LT	808.95	IPINS
6080	767,249.82	2,372,932.86	78+00.98	86.17	LT	807.05	IPINS
6081	767,198.92	2,372,340.70	72+06.65	82.26	LT	804.77	IPINS
6082	767,154.53	2,371,734.97	65+99.31	85.90	LT	801.90	IPINS
6083	767,102.63	2,371,141.16	60+03.26	81.12	LT	800.09	IPINS
6086	766,966.30	2,369,330.88	41+86.49	88.37	LT	791.48	IPINS
6087	766,898.96	2,368,743.88	35+99.69	81.82	LT	792.41	IPINS
6088	766,805.78	2,368,147.77	30+00.23	79.64	LT	797.02	IPINS
6089	766,623.44	2,367,569.47	23+99.49	16.01	LT	798.93	IPINS
6090	766,538.98	2,366,970.94	18+00.94	81.78	LT	801.14	IPINS
6091	766,373.92	2,366,392.05	12+03.32	93.89	LT	798.92	IPINS
6092	766,174.25	2,365,823.15	6+05.07	99.35	LT	797.84	IPINS
6093	765,950.49	2,365,262.63	0+06.62	108.71	LT	799.53	IPINS
6094	765,691.53	2,364,736.64	1046+98.51	100.42	LT	801.10	IPINS
6095	765,337.77	2,364,238.24	1040+94.85	22.92	LT	802.96	IPINS
6096	765,044.13	2,363,719.99	1034+99.23	16.15	LT	804.19	IPINS
6097	764,813.80	2,363,154.48	1028+92.81	87.66	LT	807.45	IPINS
6098	764,467.35	2,362,666.12	1022+97.86	20.22	LT	808.93	IPINS
6099	764,176.54	2,362,143.05	1016+99.38	18.27	LT	813.53	IPINS
6100	763,942.31	2,361,589.21	1011+01.31	80.71	LT	820.38	IPINS
6101	763,598.04	2,361,092.33	1004+99.94	19.30	LT	824.73	IPINS
6102	763,360.53	2,360,531.31	998+93.99	82.35	LT	827.69	IPINS
6103	763,016.03	2,360,037.92	992+95.57	19.04	LT	824.42	IPINS
6104	762,727.52	2,359,515.68	986+98.93	18.70	LT	823.93	IPINS
6105	762,505.20	2,358,951.14	980+97.24	96.75	LT	826.29	IPINS
6106	762,202.18	2,358,433.79	974+97.87	81.35	LT	829.36	IPINS
6107	761,911.55	2,357,905.54	968+94.95	82.05	LT	830.18	IPINS
6108	761,568.93	2,357,414.03	962+99.09	19.48	LT	831.39	IPINS
6109	761,253.77	2,356,702.86	955+24.15	87.07	LT	834.38	IPINS
6110	761,041.30	2,356,331.00	950+95.92	80.66	LT	836.74	IPINS
6111	760,753.47	2,355,805.66	944+96.90	82.42	LT	838.27	IPINS
6112	760,462.83	2,355,279.22	938+95.56	82.24	LT	838.12	IPINS
6113	760,173.96	2,354,750.77	932+93.32	84.59	LT	832.43	IPINS
6114	759,911.23	2,354,275.18	891+49.65	84.28	LT	826.33	IPINS
6115	759,643.95	2,353,792.20	885+97.65	83.56	LT	819.46	IPINS
6116	759,350.33	2,353,265.69	879+94.81	80.81	LT	814.04	IPINS
6117	759,063.43	2,352,746.36	874+01.49	80.47	LT	811.02	IPINS

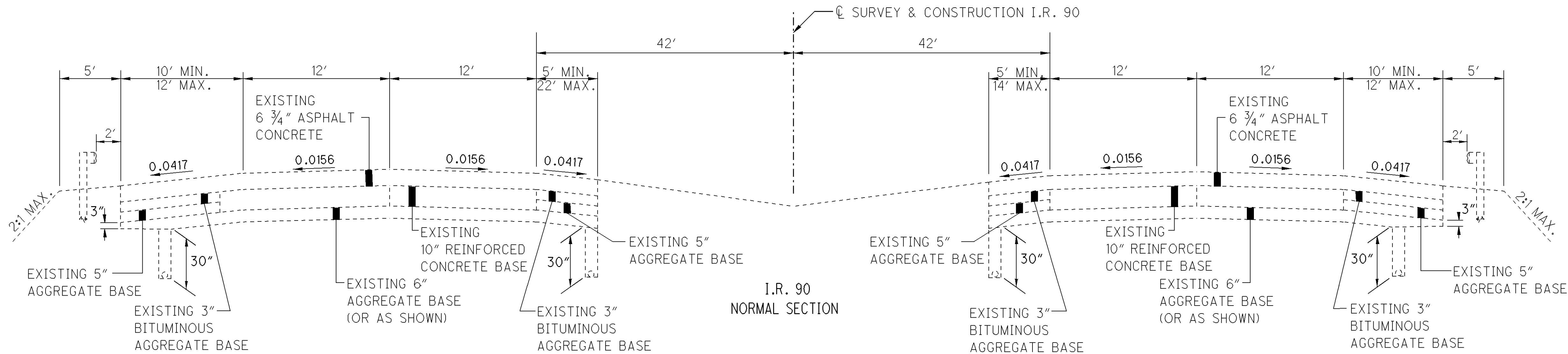
EXISTING CENTERLINE REFERENCE MONUMENTS							
POINT REF.	STATE PLANE GRID		CENTERLINE I.R. 90	OFFSET	SIDE	ELEVATION	DESCRIPTION
	NORTHING	EASTING					
6118	758,779.79	2,352,216.40	868+00.45	105.33	LT	807.40	IPINS
6119	758,492.10	2,351,685.55	861+99.91	99.53	LT	805.00	IPINS
6121	757,821.79	2,350,677.02	849+98.20	99.32	LT	801.10	IPINS
6125	756,213.35	2,348,881.92	825+95.84	85.08	LT	804.46	IPINS
6126	755,748.98	2,348,501.88	819+99.48	18.61	LT	809.58	IPINS
6127	755,367.10	2,348,023.69	813+90.58	79.74	LT	819.54	IPINS
6128	754,951.86	2,347,597.76	807+95.73	80.49	LT	827.14	IPINS
6129	754,488.72	2,347,213.37	801+97.12	17.95	LT	832.53	IPINS
6130	754,082.62	2,346,790.91	796+10.64	19.07	LT	841.13	IPINS
6131	753,740.34	2,346,288.90	790+04.99	95.54	LT	848.33	IPINS
6132	753,366.69	2,345,821.30	784+01.66	96.23	LT	856.07	IPINS
6133	752,949.59	2,345,264.66	777+01.07	81.74	LT	862.43	IPINS
6134	752,691.28	2,344,840.77	772+01.22	94.68	LT	858.72	IPINS
6135	752,388.75	2,344,327.39	766+00.71	92.32	LT	856.73	IPINS
6136	752,123.34	2,343,801.53	760+07.01	99.67	LT	854.71	IPINS
6137	751,866.44	2,343,263.02	754+05.68	93.39	LT	852.14	IPINS
6138	751,634.21	2,342,716.18	748+07.45	79.98	LT	855.46	IPINS
6139	751,446.37	2,342,145.77	742+02.75	89.15	LT	856.45	IPINS
6140	751,292.68	2,341,568.60	736+00.85	103.50	LT	856.29	IPINS
6142	751,017.09	2,340,406.79	724+00.15	82.56	LT	850.17	IPINS
6143	750,919.04	2,339,814.32	717+99.85	99.30	LT	845.89	IPINS
6144	750,788.16	2,339,232.59	712+03.84	81.76	LT	842.92	IPINS
6145	750,671.52	2,338,634.67	705+94.65	81.29	LT	839.44	IPINS
6148	750,588.37	2,339,065.67	710+01.89	82.54	RT	841.62	IPINS
6149	750,684.67	2,339,552.73	714+98.51	80.53	RT	844.78	IPINS
6153	767,029.19	2,369,940.97	48+01.02	102.82	LT	794.85	IPINS
6154	751,141.21	2,340,997.02	730+04.96	89.56	LT	852.01	IPINS
6155	761,326.78	2,357,211.87	960+05.11	94.89	RT	830.52	IPINS
6156	767,051.43	2,370,485.71	53+45.82	81.91	LT	797.64	IPINS
6157	760,177.98	2,355,098.77	935+99.96	80.00	RT	836.16	IPINS

I.R. 90 CENTERLINE MONUMENTATION

LAK-90-21.40
ATB-90-0.00

CALCULATED
M.M.
CHECKED
H.G.

TYPICAL SECTIONS
EXISTING TYPICAL



WESTBOUND LANES
SECTION APPLIES:
STA. 724+50.00 TO STA. 813+00.00 = 8,850.00 FT.
STA. 855+50.00 TO STA. 891+49.67 (BK.) = 3,599.67 FT.
STA. 927+50.00 (AH.) TO STA. 1052+73.22 (BK.) = 12,523.22 FT.
STA. 0+00.00 (AH.) TO STA. 41+87.57 (BK.) = 4,187.57 FT.
STA. 41+88.95 (AH.) TO STA. 119+06.65 (BK.) = 7,717.70 FT.
STA. 0+44.61 (AH.) TO STA. 5+75.00 = 530.39 FT.
TOTAL 37,408.55 FT.

SUSPEND PROJECT
WESTBOUND LANES
STA. 813+00.00
RESUME PROJECT
WESTBOUND LANES
STA. 855+50.00

STATION EQUATION:
STA. 832+94.09 (BACK) =
STA. 832+96.70 (AHEAD)

STATION EQUATION:
STA. 891+49.67 (BACK) =
STA. 927+50.00 (AHEAD)

STATION EQUATION:
STA. 1052+73.22 (BACK) =
STA. 0+00.00 (AHEAD)

STATION EQUATION:
STA. 41+87.57 (BACK) =
STA. 41+88.95 (AHEAD)

STATION EQUATION:
STA. 119+06.65 (BACK) =
STA. 0+44.61 (AHEAD)

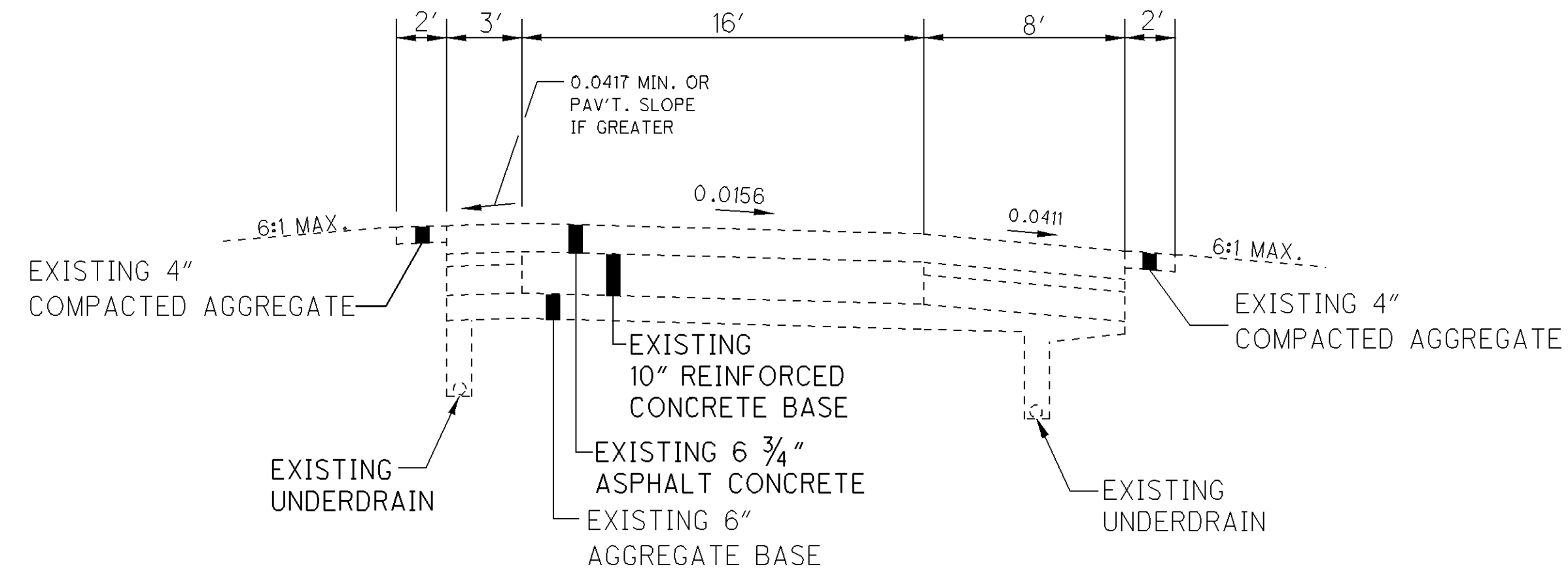
SUSPEND PROJECT
EASTBOUND LANES
STA. 826+00.00
RESUME PROJECT
EASTBOUND LANES
STA. 847+50.00

EASTBOUND LANES
SECTION APPLIES:

STA. 724+50.00 TO STA. 826+00.00 = 10,150.00 FT.
STA. 847+50.00 TO STA. 891+49.67 (BK.) = 4,399.67 FT.
STA. 927+50.00 (AH.) TO STA. 1052+73.22 (BK.) = 12,523.22 FT.
STA. 0+00.00 (AH.) TO STA. 41+87.57 (BK.) = 4,187.57 FT.
STA. 41+88.95 (AH.) TO STA. 119+06.65 (BK.) = 7,717.70 FT.
STA. 0+44.61 (AH.) TO STA. 5+75.00 = 530.39 FT.
TOTAL 39,508.55 FT.

TYPICAL SECTIONS

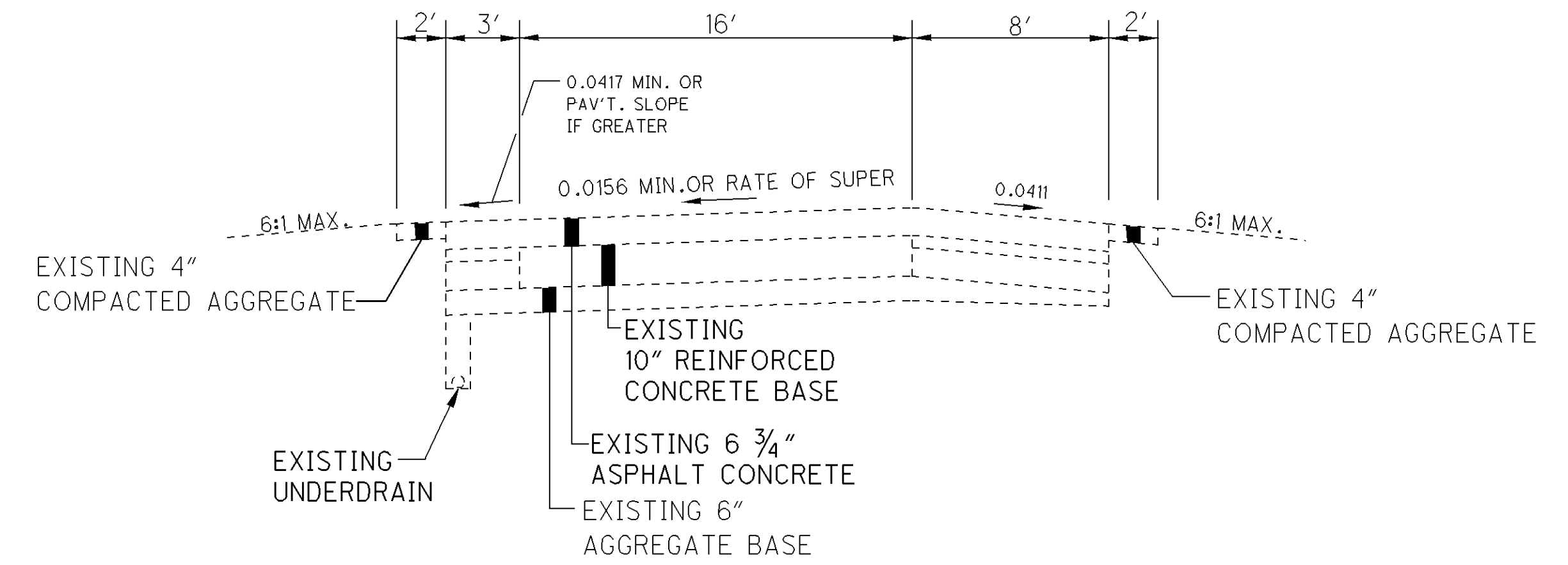
EXISTING TYPICAL - RAMPS



NORMAL SECTION

SECTION APPLIES:

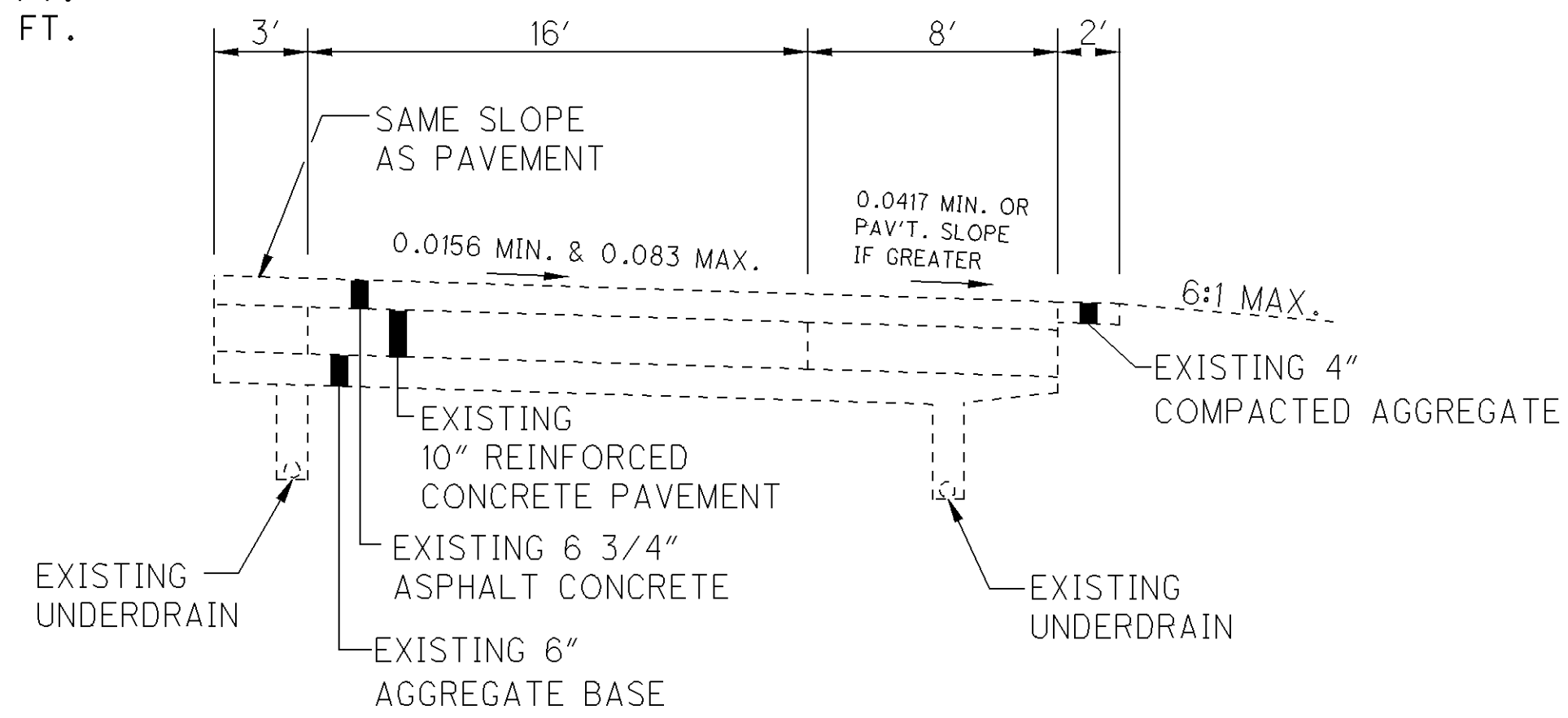
- (RAMP I) - STA. 4+53.07 TO STA. 6+25.00 = 171.93 FT.
- (RAMP I) - STA. 10+25.00 TO STA. 12+63.00 = 238.00 FT.
- (RAMP J) - STA. 10+75.00 TO STA. 13+61.60 = 286.60 FT.
- (RAMP K) - STA. 0+12.00 TO STA. 1+50.00 = 138.00 FT.
- (RAMP K) - STA. 6+00.00 TO STA. 6+90.23 = 90.23 FT.
- (RAMP L) - STA. 0+12.00 TO STA. 4+25.00 = 413.00 FT.



SUPERELEVATED SECTION

SECTION APPLIES:

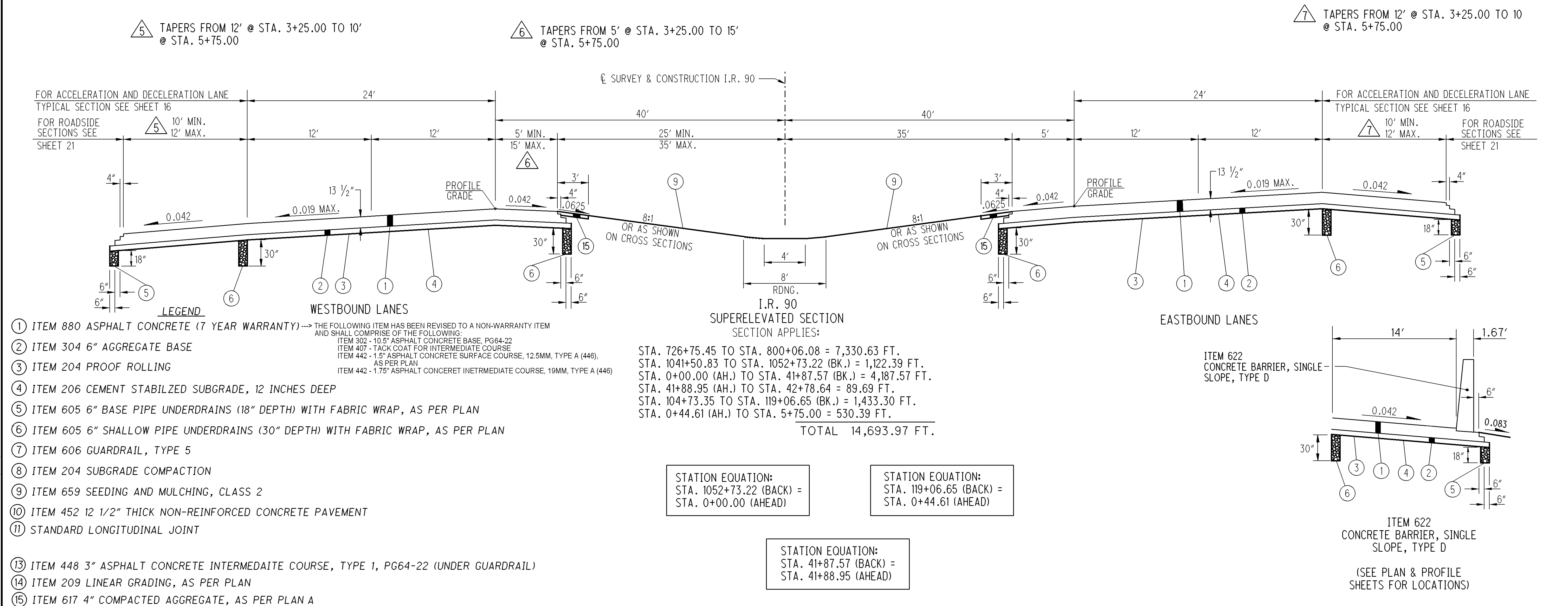
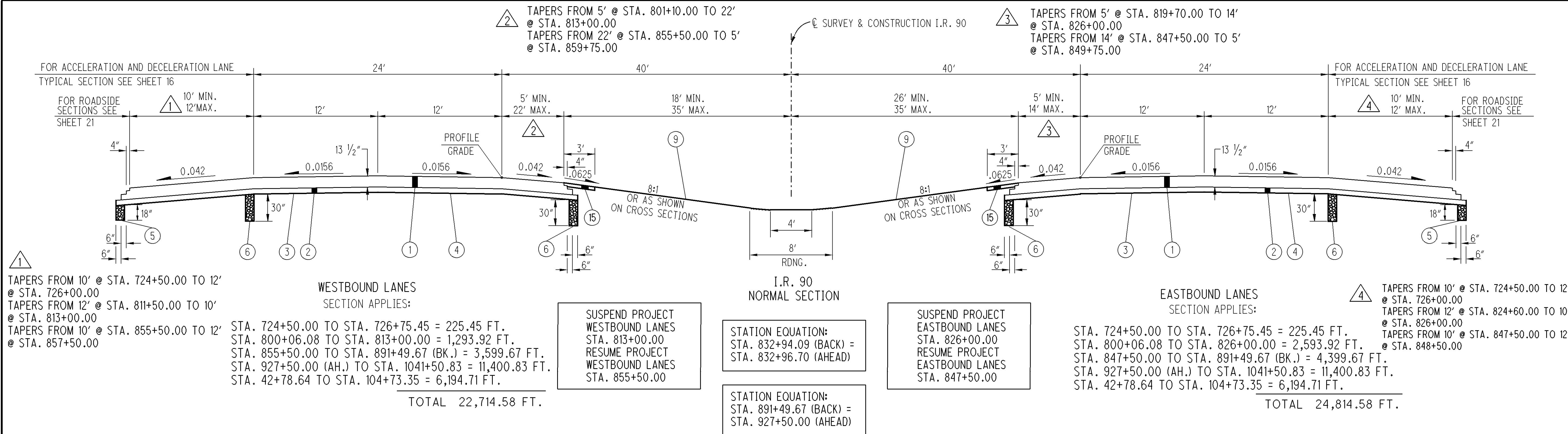
- (RAMP J) - STA. 4+80.00 TO STA. 10+75.00 = 595.00 FT.

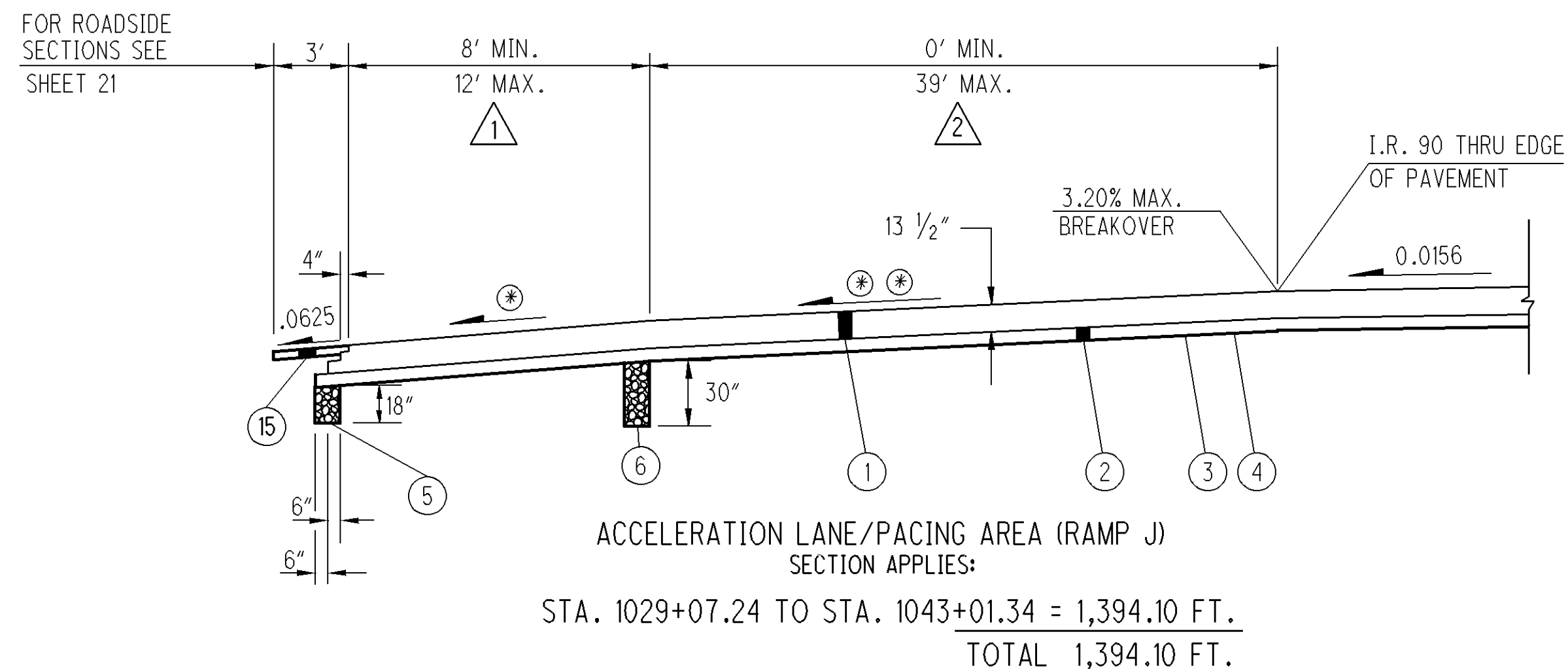


SUPERELEVATED SECTION

SECTION APPLIES:

- (RAMP I) - STA. 6+25.00 TO STA. 10+25.00 = 400.00 FT.
- (RAMP K) - STA. 1+50.00 TO STA. 6+00.00 = 450.00 FT.
- (RAMP L) - STA. 4+25.00 TO STA. 9+25.00 = 500.00 FT.

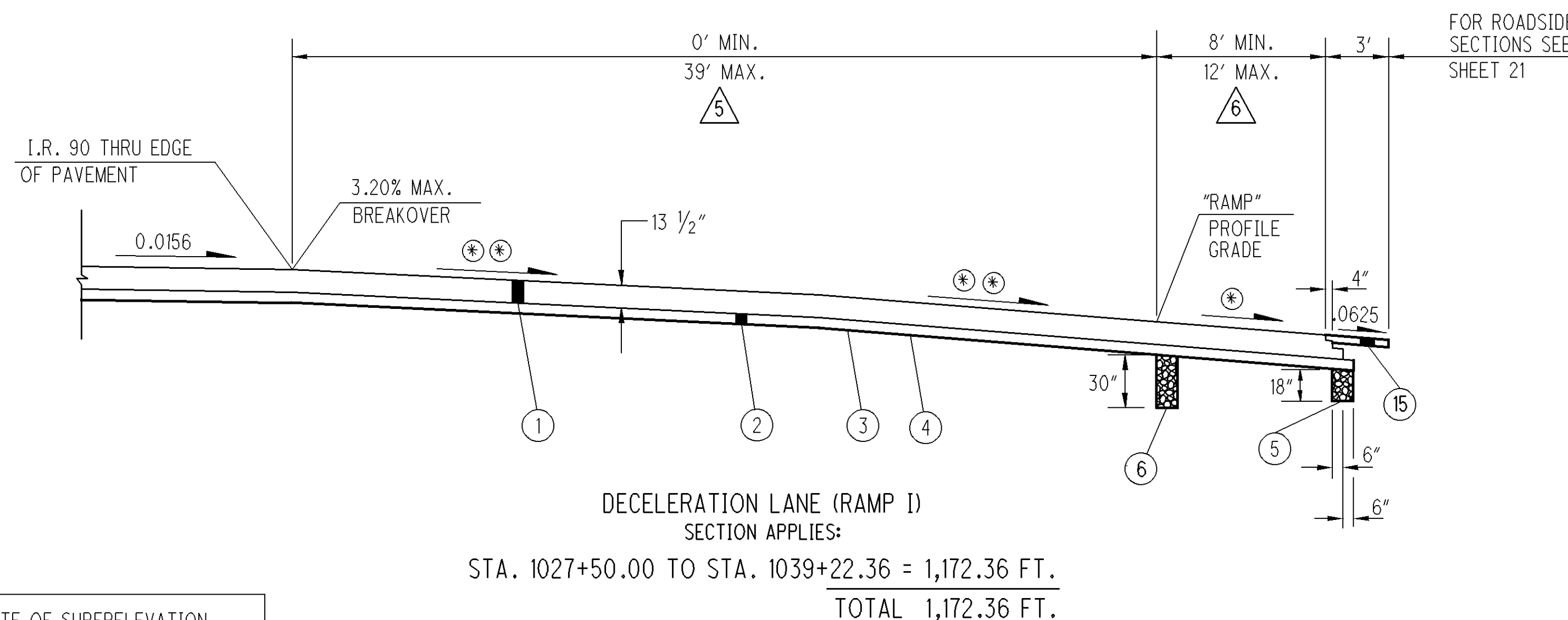




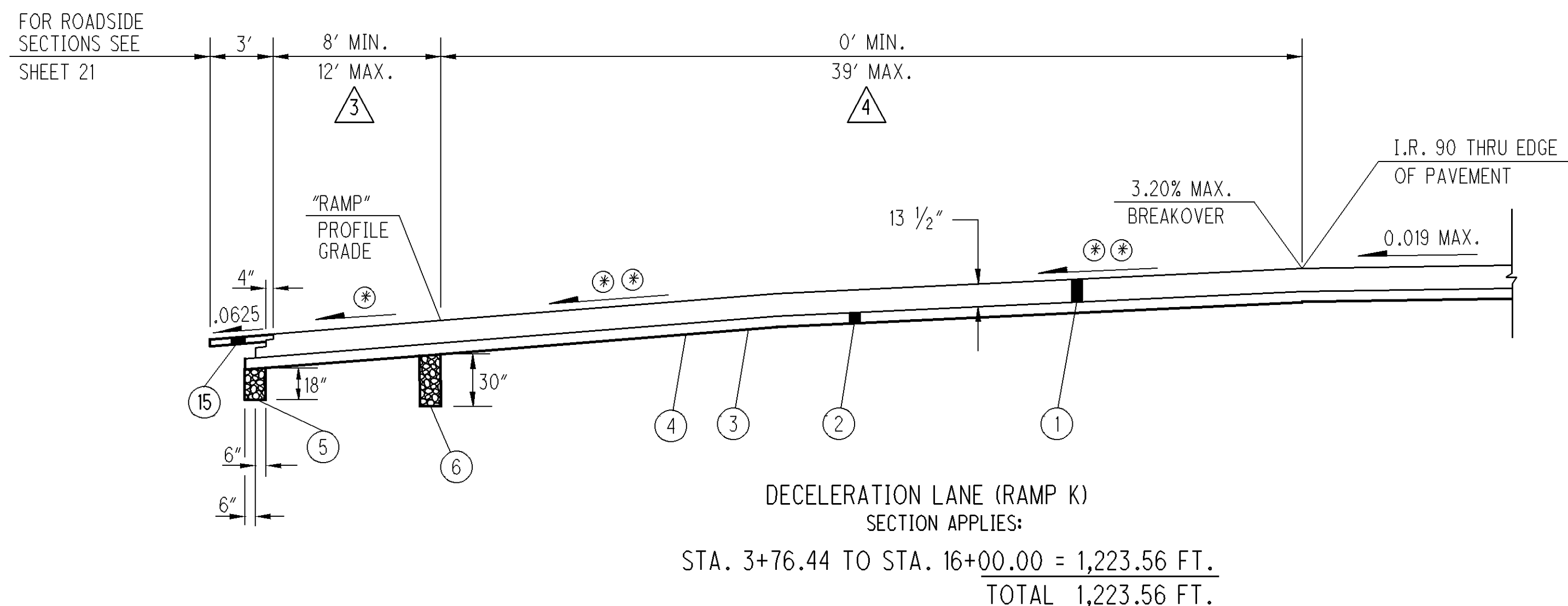
- 1 TAPERS FROM 12'-0" @ STA. 1029+07.24 TO 8'-0" @ STA. 1031+07.24. 8'-0" FROM STA. 1031+07.24 TO STA. 1043+01.34
- 2 TAPERS FROM 0'-0" @ STA. 1029+07.24 TO 39'-0" @ STA. 1043+01.34

* - 0.042 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER.

* - SLOPES VARY, SEE PAVEMENT DETAIL SHEETS 455-462.



- 5 TAPERS FROM 0'-0" @ STA. 1027+50.00 TO 12'-0" @ STA. 1028+50.00 12'-0" FROM STA. 1028+50.00 TO STA. 1034+85.14 TAPERS FROM 12' @ STA. 1034+85.14 TO 39'-0" @ STA. 1039+22.36
- 6 TAPERS FROM 12'-0" @ STA. 1027+50.00 TO 8'-0" @ STA. 1028+50.00

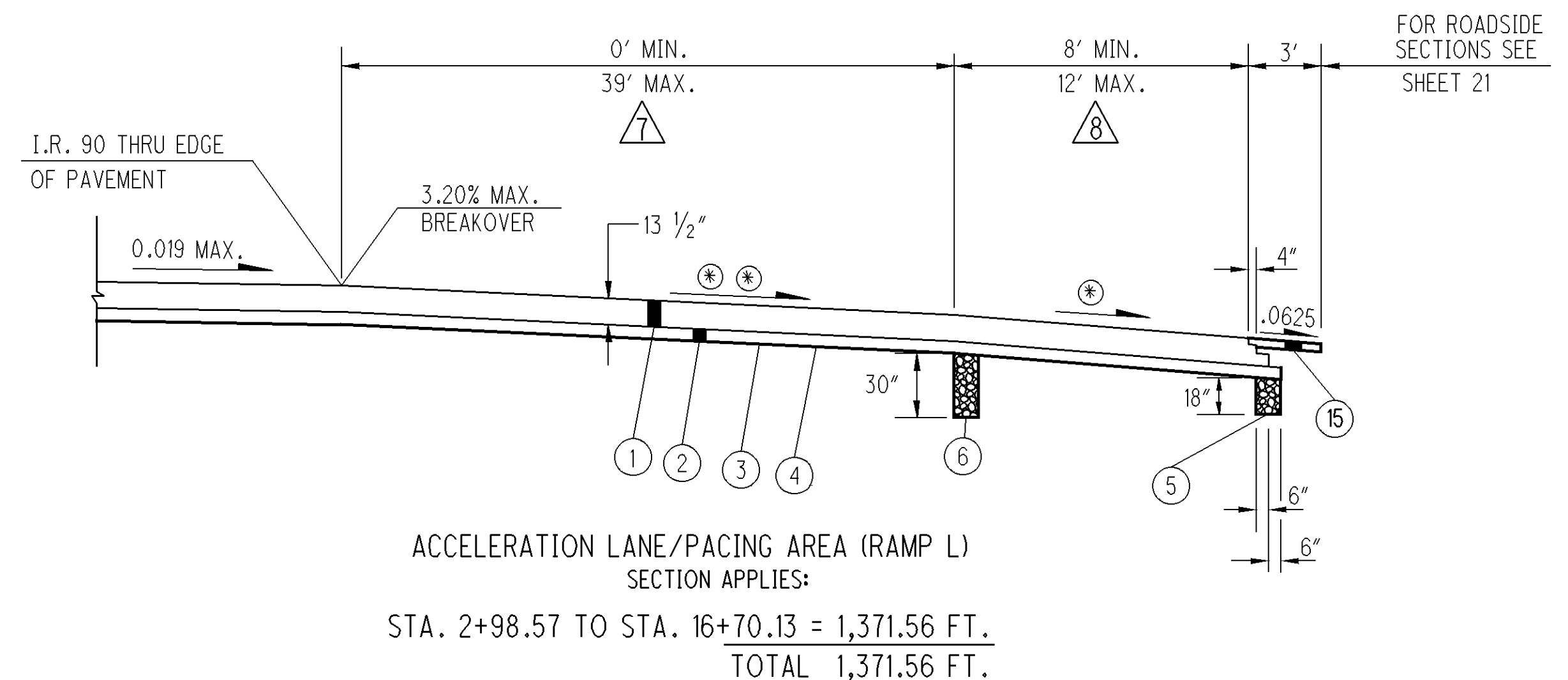


- 3 TAPERS FROM 8'-0" @ STA. 15+00.00 TO 12'-0" @ STA. 16+00.00
- 4 TAPERS FROM 39'-0" @ STA. 3+76.44 TO 12'-0" @ STA. 7+55.89. 12'-0" FROM STA. 7+55.89 TO STA. 15+00.00. TAPERS FROM 12'-0" @ STA. 15+00.00 TO 0'-0" @ STA. 16+00.00

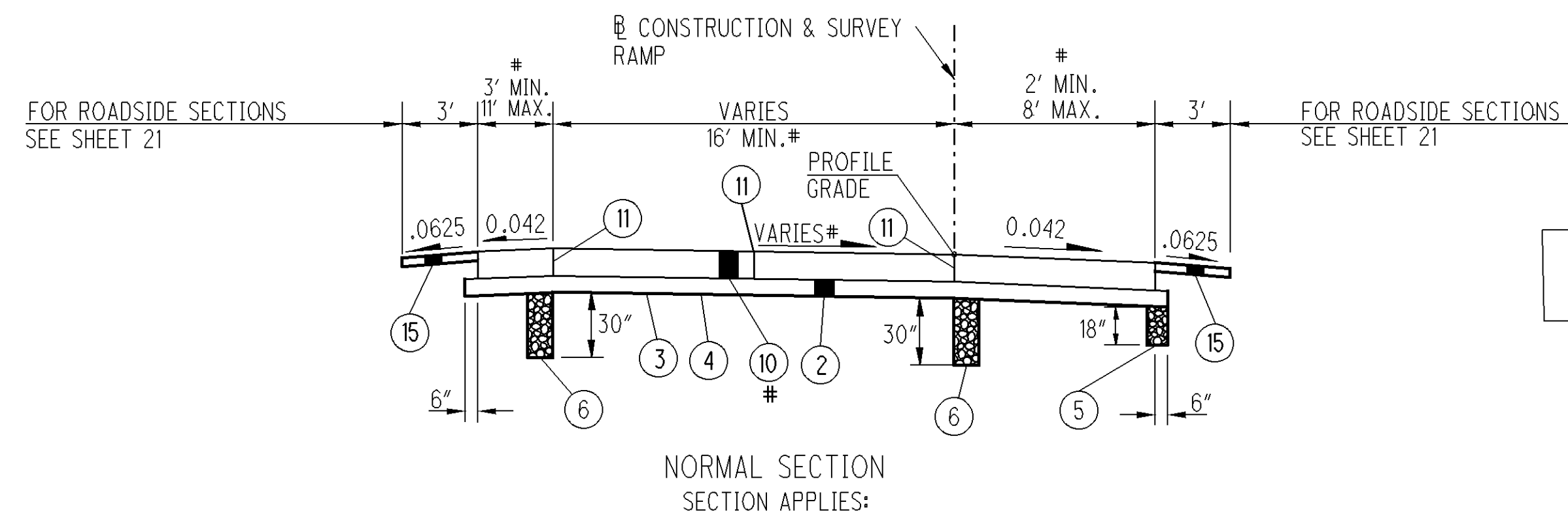
LEGEND

- 1 ITEM 880 ASPHALT CONCRETE (7 YEAR WARRANTY)
- 2 ITEM 304 6" AGGREGATE BASE
- 3 ITEM 204 PROOF ROLLING
- 4 ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- 5 ITEM 605 6" BASE PIPE UNDERDRAINS (18" DEPTH) WITH FABRIC WRAP, AS PER PLAN
- 6 ITEM 605 6" SHALLOW PIPE UNDERDRAINS (30" DEPTH) WITH FABRIC WRAP, AS PER PLAN
- 7 ITEM 606 GUARDRAIL, TYPE 5
- 8 ITEM 204 SUBGRADE COMPACTION
- 9 ITEM 659 SEEDING AND MULCHING, CLASS 2
- 10 ITEM 452 12 1/2" THICK NON-REINFORCED CONCRETE PAVEMENT
- 11 STANDARD LONGITUDINAL JOINT

THE FOLLOWING ITEM HAS BEEN REVISED TO A NON-WARRANTY ITEM AND SHALL COMPRISE OF THE FOLLOWING:
ITEM 302 - 10.5" ASPHALT CONCRETE BASE, PG64-22
ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN
ITEM 442 - 1.75" ASPHALT CONCRET INETRMEDIATE COURSE, 19MM, TYPE A (446)



- 7 TAPERS FROM 39'-0" @ STA. 2+98.57 TO 0'-0" @ STA. 16+70.13
- 8 TAPERS FROM 8'-0" @ STA. 14+70.13 TO 12'-0" @ STA. 16+70.13



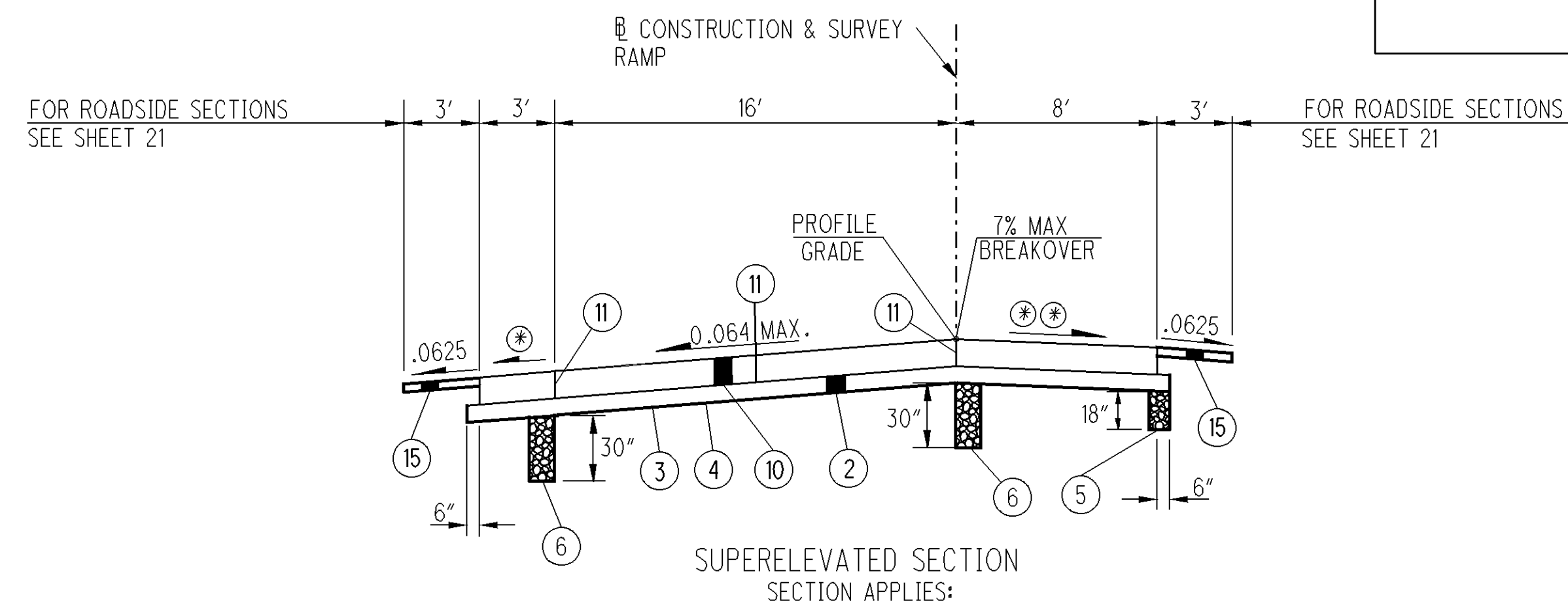
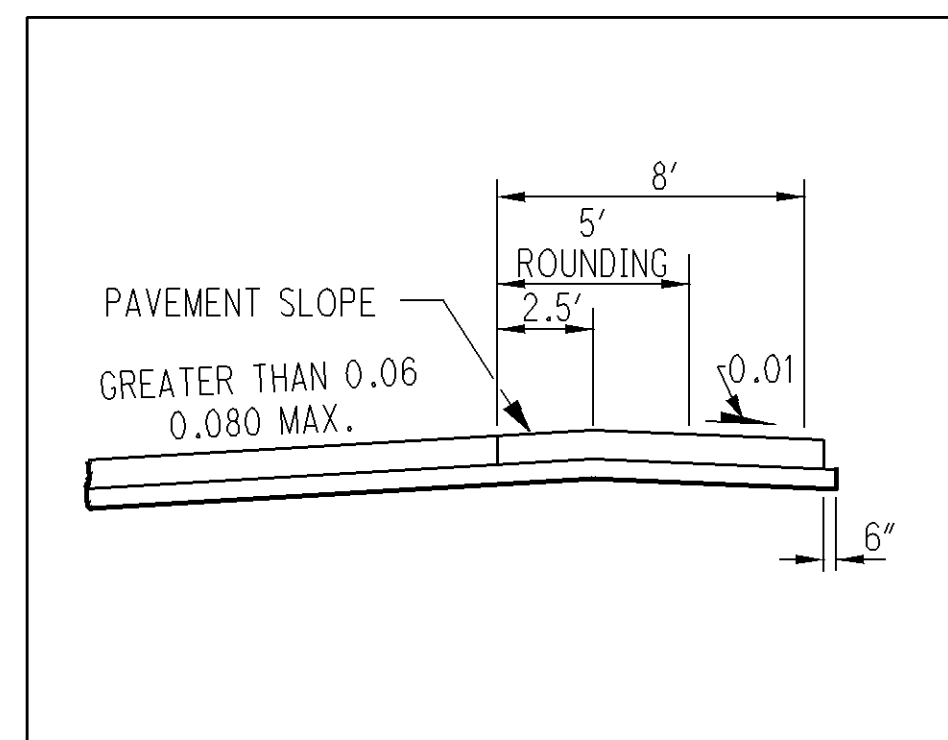
(RAMP I) - STA. 12+00.00 TO STA. 12+62.90 = 69.20 FT. - (VARIES)
(RAMP L) - STA. 0+12.79 TO STA. 1+00.00 = 87.21 FT. - (0.039 MAX.)

NOTE:
ITEM 452 12 1/2" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN
(SEE GENERAL NOTE, SHEET 26)
WILL BE USED AT THE FOLLOWING LOCATIONS:

(RAMP I) - STA. 11+50.00 TO STA. 12+62.90
(RAMP L) - STA. 0+12.79 TO STA. 1+00.00

(*) - 0.042 OR RATE OF SUPERELEVATION,
WHICHEVER IS GREATER.

(***) - SLOPES VARY, SEE SUPERELEVATION
SHEETS 109 & 112.

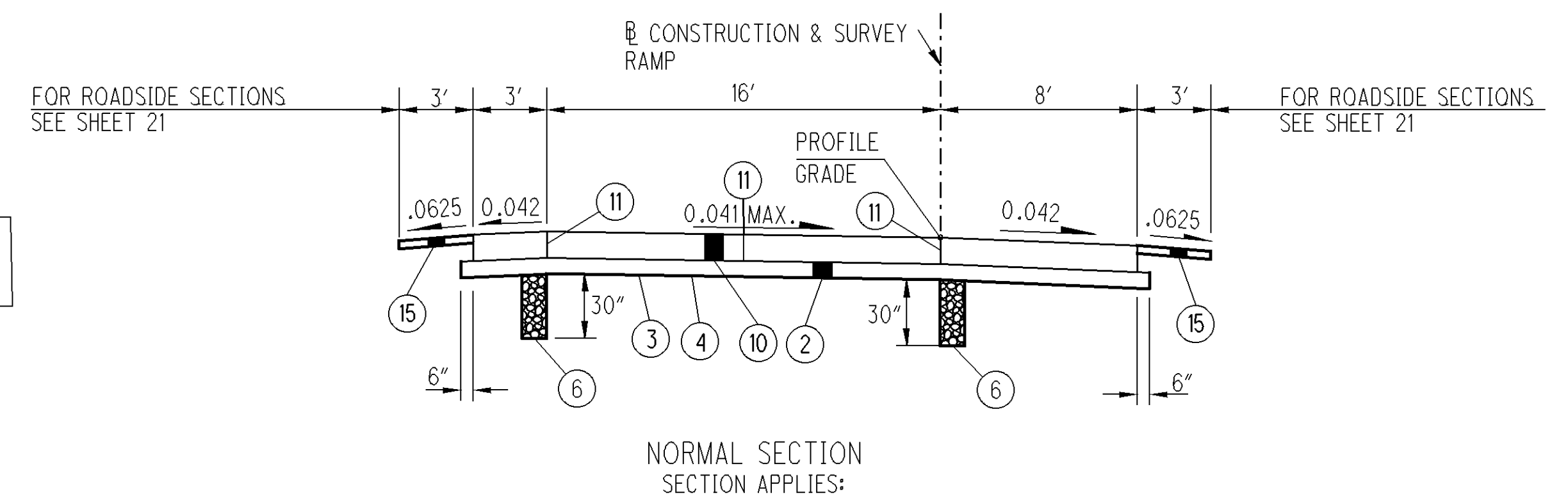


(RAMP I) - STA. 11+00.00 TO STA. 12+00.00 = 100.00 FT. - (0.063 MAX.)
(RAMP L) - STA. 1+00.00 TO STA. 3+50.00 = 250.00 FT. - (0.064 MAX.)

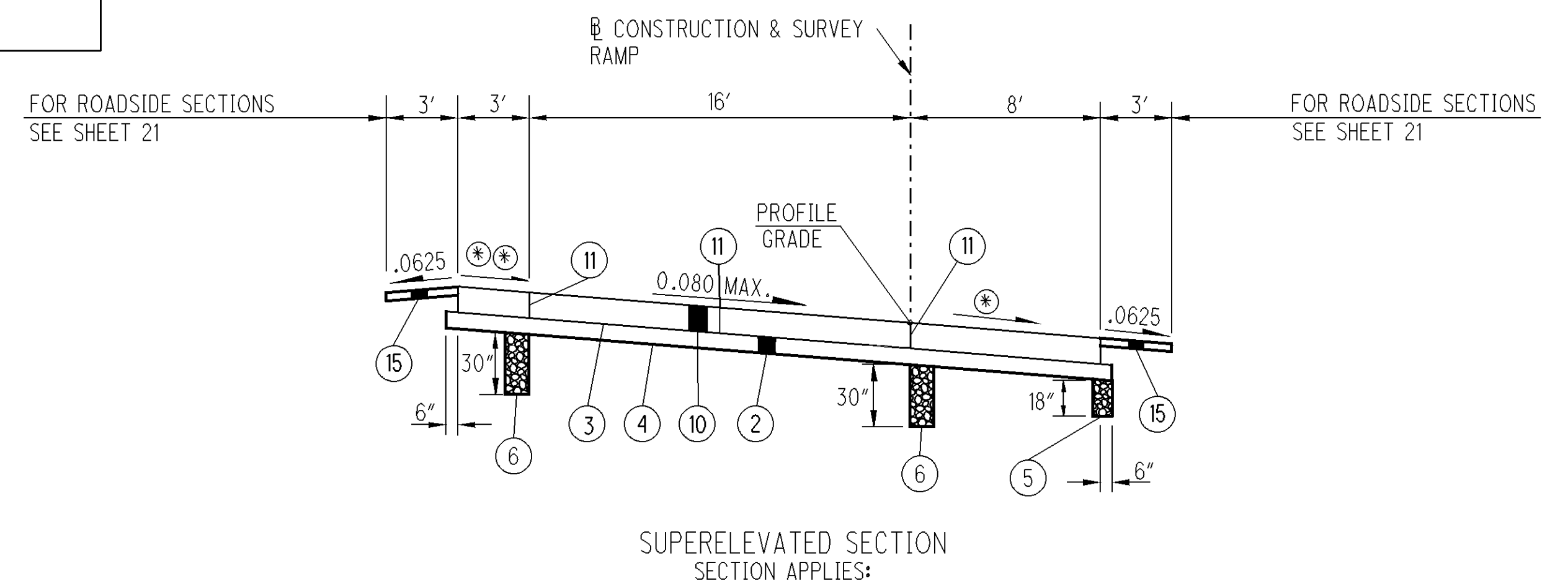
LEGEND

- ① ITEM 880 ASPHALT CONCRETE (7 YEAR WARRANTY) ----> THE FOLLOWING ITEM HAS BEEN REVISED TO A NON-WARRANTY ITEM AND SHALL COMPRISE OF THE FOLLOWING:
 - ITEM 302 - 10.5" ASPHALT CONCRETE BASE, PG64-22
 - ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
 - ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN
 - ITEM 442 - 1.75" ASPHALT CONCRETET INETRMEDIATE COURSE, 19MM, TYPE A (446)
- ② ITEM 304 6" AGGREGATE BASE
- ③ ITEM 204 PROOF ROLLING
- ④ ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- ⑤ ITEM 605 6" BASE PIPE UNDERDRAINS (18" DEPTH) WITH FABRIC WRAP, AS PER PLAN
- ⑥ ITEM 605 6" SHALLOW PIPE UNDERDRAINS (30" DEPTH) WITH FABRIC WRAP, AS PER PLAN
- ⑦ ITEM 606 GUARDRAIL, TYPE 5
- ⑧ ITEM 204 SUBGRADE COMPACTION
- ⑨ ITEM 659 SEEDING AND MULCHING, CLASS 2
- ⑩ ITEM 452 12 1/2" THICK NON-REINFORCED CONCRETE PAVEMENT
- ⑪ STANDARD LONGITUDINAL JOINT

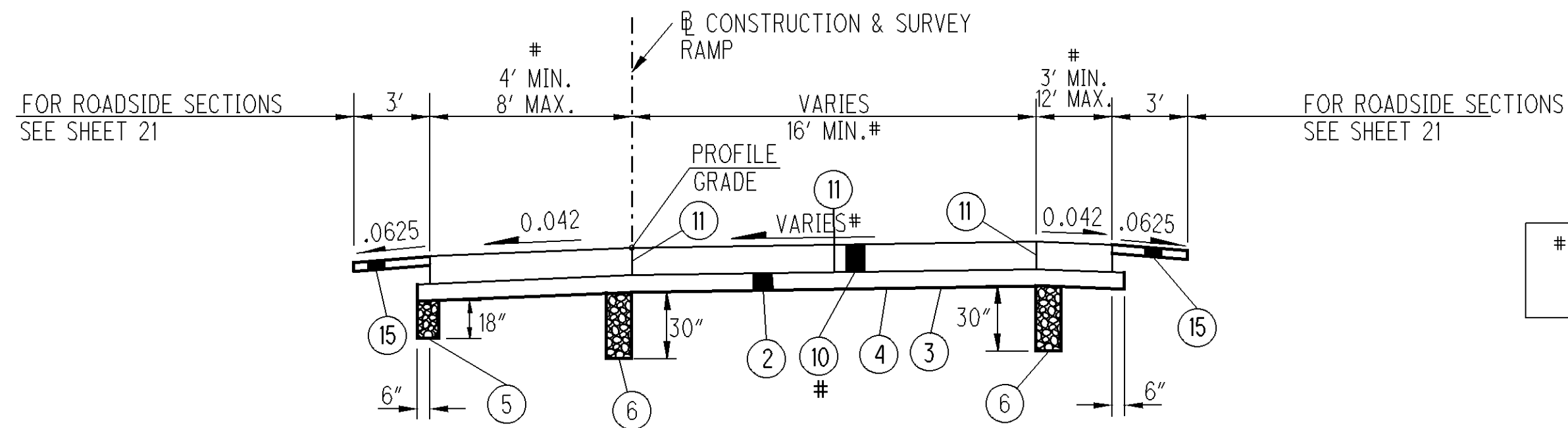
- (13) ITEM 448 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL)
- (14) ITEM 209 LINEAR GRADING, AS PER PLAN
- (15) ITEM 617 4" COMPACTED AGGREGATE, AS PER PLAN A



(RAMP I) - STA. 4+36.31 TO STA. 7+31.30 = 294.99 FT. - (0.041 MAX.)
(RAMP L) - STA. 3+50.00 TO STA. 3+76.56 = 26.56 FT. - (0.011 MAX.)



(RAMP I) - STA. 7+31.30 TO STA. 11+00.00 = 368.70 FT. - (0.079 MAX.)
(RAMP L) - STA. 3+76.56 TO STA. 9+51.10 = 574.54 FT. - (0.080 MAX.)



NORMAL SECTION
SECTION APPLIES:

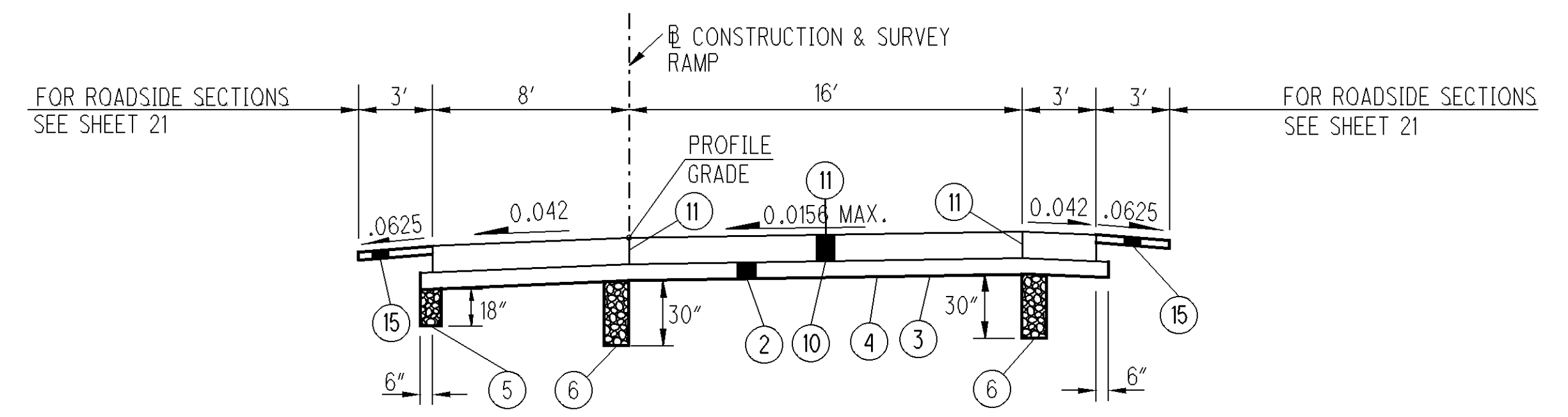
(RAMP K) - STA. 0+10.84 TO STA. 2+25.00 = 214.16 FT. (0.022 MAX.)

NOTE:
ITEM 452 12 1/2" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN
(SEE GENERAL NOTE, SHEET 26)
WILL BE USED AT THE FOLLOWING LOCATION:

(RAMP K) - STA. 0+10.84 TO STA. 1+00.00

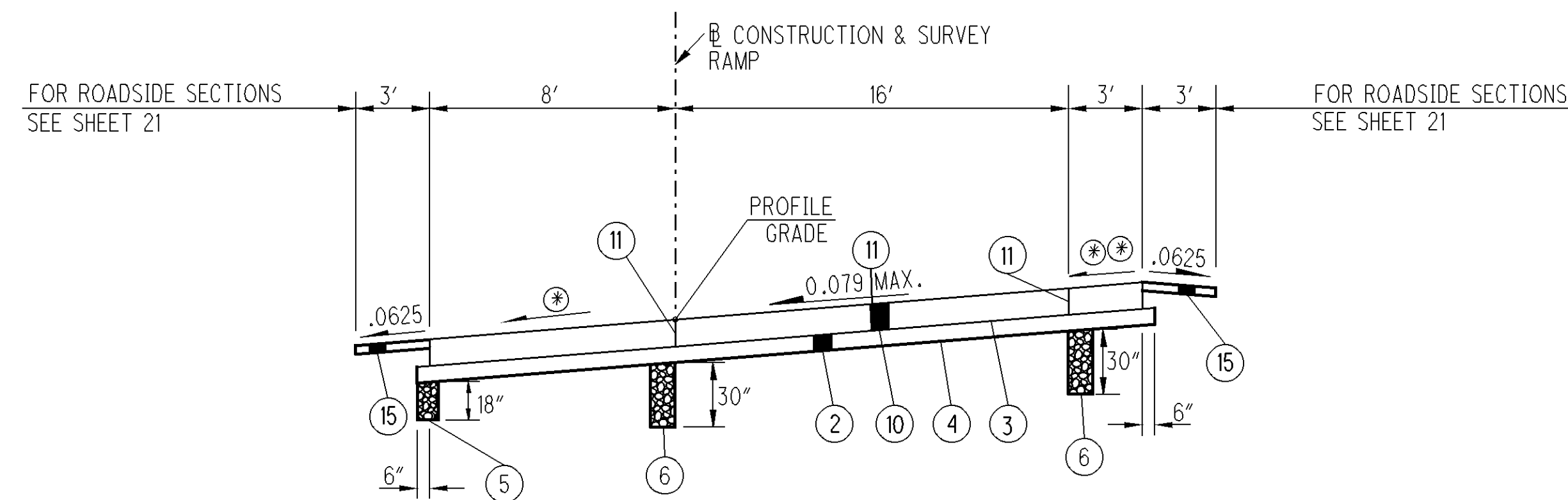
PAVEMENT SLOPE AND WIDTH VARIES
SEE PAVEMENT DETAIL SHEETS
455-462

(*) - 0.042 OR RATE OF SUPERELEVATION,
WHICHEVER IS GREATER.
(**) - SLOPES VARY, SEE SUPERELEVATION
SHEETS 110-111.



NORMAL SECTION
SECTION APPLIES:

(RAMP J) - STA. 11+02.76 TO STA. 11+71.35 = 68.59 FT. (0.011 MAX.)



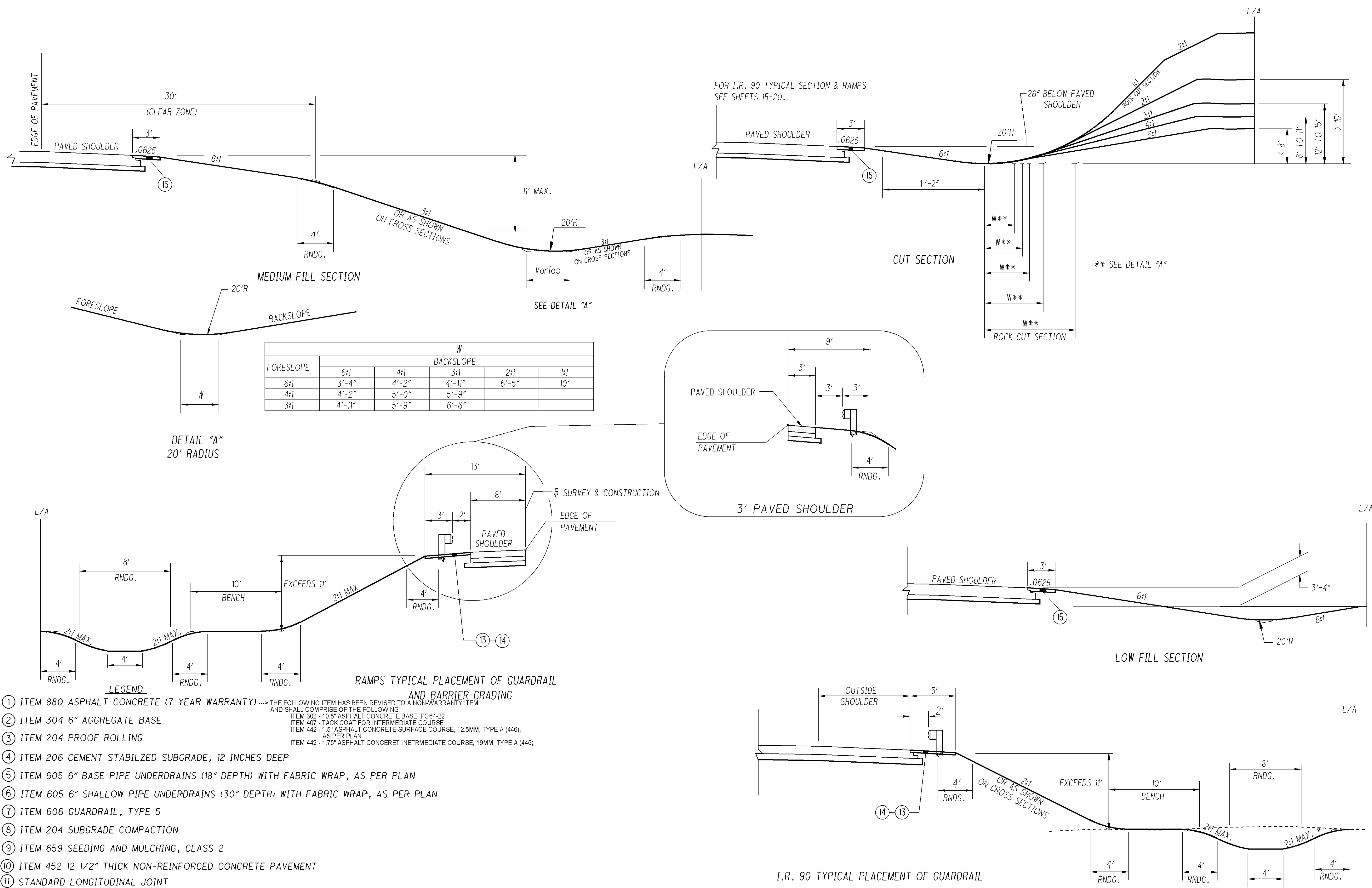
SUPERELEVATED SECTION
SECTION APPLIES:

(RAMP J) - STA. 4+43.51 TO STA. 11+02.76 = 659.25 FT. (0.077 MAX.)
(RAMP J) - STA. 11+71.35 TO STA. 14+98.02 = 326.67 FT. (0.064 MAX.)
(RAMP K) - STA. 2+25.00 TO STA. 7+04.88 = 479.88 FT. (0.079 MAX.)

LEGEND

- ① ITEM 880 ASPHALT CONCRETE (7 YEAR WARRANTY) ---> THE FOLLOWING ITEM HAS BEEN REVISED TO A NON-WARRANTY ITEM AND SHALL COMPRISE OF THE FOLLOWING:
ITEM 302 - 10.5" ASPHALT CONCRETE BASE, PG64-22
ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN
ITEM 442 - 1.75" ASPHALT CONCRET INETRMEDIATE COURSE, 19MM, TYPE A (446)
- ② ITEM 304 6" AGGREGATE BASE
- ③ ITEM 204 PROOF ROLLING
- ④ ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- ⑤ ITEM 605 6" BASE PIPE UNDERDRAINS (18" DEPTH) WITH FABRIC WRAP, AS PER PLAN
- ⑥ ITEM 605 6" SHALLOW PIPE UNDERDRAINS (30" DEPTH) WITH FABRIC WRAP, AS PER PLAN
- ⑦ ITEM 606 GUARDRAIL, TYPE 5
- ⑧ ITEM 204 SUBGRADE COMPACTION
- ⑨ ITEM 659 SEEDING AND MULCHING, CLASS 2
- ⑩ ITEM 452 12 1/2" THICK NON-REINFORCED CONCRETE PAVEMENT
- ⑪ STANDARD LONGITUDINAL JOINT
- ⑬ ITEM 448 3" ASPHALT CONCRETE INTERMEDAITE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL)
- ⑭ ITEM 209 LINEAR GRADING, AS PER PLAN
- ⑮ ITEM 617 4" COMPACTED AGGREGATE, AS PER PLAN A

75477_IR90ML_PTS.DGN 1/10/08



GENERAL

EXISTING TYPICAL SECTION

EXISTING TYPICAL SECTIONS HAVE BEEN TAKEN FROM THE RECORDS AND ARE BELIEVED TO REPRESENT THE EXISTING PAVEMENT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THE SAME.

FOR FURTHER INFORMATION IN REGARD TO THE EXISTING TYPICAL SECTIONS, THE CONTRACTOR SHALL REFER TO THE PREVIOUS CONSTRUCTION PLANS.

THESE PLANS MAY BE REVIEWED AT THE:

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 12 OFFICE
5500 TRANSPORTATION BOULEVARD
GARFIELD HEIGHTS, OHIO 44125

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL COOPERATE AND COORDINATE OPERATIONS WITH THE CONTRACTORS ON OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THE CONTRACT. NO WAIVER OF ANY PROVISIONS OF 105.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS IS INTENDED.

ALTERNATE METHODS

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THERE FROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING, BY THE DIRECTOR.

RIGHT-OF-WAY

ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY OR EASEMENTS.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AMERITECH
13630 LORAIN AVE. 4TH FLOOR
CLEVELAND, OH 44111
(216) 476-6142

THE ILLUMINATING CO.
6896 MILLER RD.
BRECKSVILLE, OH 44141
(440) 546-8748

OHIO DEPARTMENT OF
TRANSPORTATION
5500 TRANSPORTATION BLVD.
GARFIELD HEIGHTS, OH 44125
(216) 581-2100

CONSUMERS OHIO WATER
LAKE ERIE DIVISION
8644 STATION ST.
MENTOR, OH 44060-4316
(440) 255-3421

LAKETRAN
555 LAKESHORE BLVD.
PAINESVILLE, OH 44077
(440) 350-1000

EAST OHIO GAS CO.
1201 E. 55TH ST.
CLEVELAND, OH 44103
(216) 736-6755

LAKE COUNTY DEPARTMENT
OF UTILITIES
ADMINISTRATION BUILDING
105 MAIN ST.
PAINESVILLE, OH 44060
(216) 350-2649

ITEM 623 CONSTRUCTION LAYOUT STAKES, AS PER PLAN

PRIOR TO THE RECONSTRUCTION OF PAVEMENT BENEATH ALL OVERHEAD STRUCTURES, A LICENSED SURVEYOR SHALL MEASURE THE VERTICAL CLEARANCES AND DOCUMENT THE MEASUREMENTS ON AN APPROVED OHIO DEPARTMENT OF TRANSPORTATION FORM AVAILABLE FROM THE DISTRICT BRIDGE OFFICE. THE MEASUREMENTS SHALL BE TAKEN AT THE LOCATIONS INDICATED ON THE APPROVED ODOT FORM AND SUBMITTED TO THE PROJECT ENGINEER. AFTER THE NEW PAVING HAS BEEN COMPLETE, A REGISTERED SURVEYOR AGAIN SHALL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM. THESE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT BRIDGE ENGINEER. THE RECORD SHALL BEAR THE STAMP OR SEAL OF THE LICENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND WILL VERIFY THAT VERTICAL CLEARANCES HAVE BEEN MET.

ELEVATION DATUM

ALL ELEVATIONS ARE OPTOMETRICAL HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE GEOID03 GEOID. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2007 (NAD 83(INSRN 2007)), AND THE GRS80 ELLIPSOID.

INDIANA BAT

THE PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS). THE PROJECT MAY IMPACT SUMMER AND BROOD REARING HABITATS FOR THIS SPECIES (I.E., LIVING OR STANDING TREES OR SNAGS WITH EXFOLIATING, LOOSE OR PEELING BARK, SPLIT TRUNKS AND/OR BRANCHES, CAVITIES). TO PREVENT HARM TO THESE BATS, THE REMOVAL OF ANY POTENTIAL ROOST TREES MUST BE COMPLETED BETWEEN SEPTEMBER 15TH AND APRIL 15TH. ALL BAT TREE CUTTING MUST BE COMPLETED BEFORE THE APRIL 15TH DEADLINE.

STAGING AREAS

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE CONTRACTOR TO USE AS A STAGING AREA(S). IF THE CONTRACTOR WANTS TO USE AN AREA(S) FOR STAGING, REGARDLESS IF IT FALLS WITHIN THE PROJECT LIMITS OR NOT, THE CONTRACTOR IS TO CONTACT JILL POWERS AT (216) 584-2195 AT DISTRICT 12 IN ORDER TO APPLY FOR A PERMIT AS PER SECTION 107.02 OF THE CMS.

THE CONTRACTOR IS NOT PERMITTED TO USE THE BACK PORTION OF THE ORIGINAL REST AREAS, THAT WAS FORMALLY THE PINIC AREA, FOR A STAGING AREA. TREES WILL BE PLANTED IN THESE AREAS AS PART OF PROJECT D12-FEN-FY2010 PID 84897 WHICH IS UNDER CONTRACT DURING THIS PROJECT. THE FRONT AREA OF THE REST AREA IS STILL AVAILABLE FOR USE.

NO CONCRETE OR ASPHALT PLANTS ARE ALLOWED. NO CRUSHING OPERATIONS ARE ALLOWED. THE CONTRACTOR SHALL NOT UTILIZE THIS PROJECT'S STAGING AREA FOR OTHER PROJECTS. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL ON TOP OF EXISTING DRAINAGE PIPES AND UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE REGULATORY REQUIREMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION OF THE STAGING AREA(S). IN ADDITION TO SECTION 104.04 OF THE CMS, RESTORATION WORK SHALL INCLUDE, AT NO ADDITIONAL COST TO THE STATE:

1. REMOVAL OF AT LEAST 4 INCHES OF MATERIAL AND REPLACEMENT WITH TOPSOIL PER ITEM 659.
2. SEED AND MULCH THE AREA PER ITEM 659
3. REPLACEMENT OF ALL TREES REMOVED BY CONTRACTOR ON CALIPER-INCH BASIS WITH ONE (1) YEAR WARRANTY

IF THE PROJECT ENGINEER DEEMS THAT ALL THE CONDITIONS OF R/W USE ARE NOT MET, THEN 10% OF THE CONTRACT BID AMOUNT FOR MOBILIZATION SHALL BE WITHHELD UNTIL ALL THE CONDITIONS OF THE R/W USE ARE SATISFIED.

ROADWAY

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 202 GUARDRAIL REMOVED

THIS ITEM WILL INCLUDE BOTH STANDARD AND BARRIER TYPE RAILS INCLUDING ANCHOR ASSEMBLIES AND TERMINAL ASSEMBLIES.

GUARDRAIL PROTECTION

NO SIGN SUPPORTS WILL BE ERECTED BEFORE NECESSARY GUARDRAIL PROTECTION IS IN PLACE. SIMILARLY EXISTING GUARDRAIL WHICH PROTECTS AN OBSTRUCTION OR SLOPE WHICH IS TO BE UPGRADED TO ELIMINATE GUARDRAIL, WILL NOT BE REMOVED UNTIL THAT WORK HAS BEEN COMPLETED. EXISTING GUARDRAIL WHICH IS SCHEDULED TO BE REPLACED WITH TYPE 5 GUARDRAIL, WILL NOT REMOVED UNTIL THE NEW GUARDRAIL IS READY TO BE INSTALLED. UNDER NO CIRCUMSTANCES WILL ANT HAZARD BE WITHOUT GUARDRAIL PROTECTION FOR MORE THAN 24 HOURS.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER WILL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

ITEM 203 ROADWAY, MISC.: DITCH CLEANOUT

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE CROSS-SECTION OF AN EXISTING DITCH. SURPLUS OR UNSUITABLE MATERIALS, AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF AS PER 105.16 & 105.17. EMBANKMENT REQUIRED FOR ERODED CONDITIONS SHALL MEET THE REQUIREMENTS OF 203.06.

THE ORIGINAL DITCH CROSS SECTION AND GRADE SHALL BE RE-ESTABLISHED, AS SHOWN ON THE PREVIOUS CONSTRUCTION PLANS REFERENCED IN THE EXISTING TYPICAL SECTION. THE DITCHES SHALL BE SEEDED AND MULCHED AS PER ITEM 659, INCLUDING FERTILIZER. THE LOCATIONS FOR THIS WORK WILL BE AS DIRECTED BY THE PROJECT ENGINEER.

MEASUREMENT OF THE DITCH CLEANOUT SHALL BE AT THE ACTUAL CUBIC YARD MEASURED BY THE PROJECT ENGINEER.

IN ADDITION, THIS ITEM SHALL INCLUDE THE INSTALLATION OF ITEM 670 DITCH EROSION PROTECTION IN ALL DISTURBED DITCHES. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE FOR THE DITCH CLEANOUT. THIS ITEM SHALL BE PLACED WITHIN 7 DAYS OF THE DITCH OPERATION. THE 7 DAY LIMIT SHALL BEGIN WHEN THE CONTRACTOR FINISHES A CONTINUOUS CLEANOUT LENGTH AND MOVES TO ANOTHER LOCATION.

ALL MATERIALS REMOVED FROM THE DITCHES MUST BE IMMEDIATELY REMOVED TO AN UPLAND SITE AND STABILIZED (I.E. SEEDED) TO PREVENT REDISTRIBUTION INTO ANY WATERS OF THE UNITED STATES. (IMMEDIATE REMOVAL IS DEFINED BY THE CORPS AS DEPOSITING THE REMOVED MATERIALS DIRECTLY INTO A TRUCK AND REMOVING THE MATERIAL FROM THE SITE; PLACEMENT OF THE REMOVED MATERIALS INTO A WETLAND OR ON BANKS OF A STREAM EVEN TEMPORARILY IS CONSIDERED A FILL AND REQUIRES A PERMIT ACTION).

PAYMENT FOR THE ABOVE WORK, INCLUDING EARTHWORK, SEEDING, MULCHING, FERTILIZER AND ALL LABOR, EQUIPMENT AND INCIDENTALS SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 203 ROADWAY, MISC.: DITCH CLEANOUT.

THE FOLLOWING QUANTITY IS PROVIDED FOR USE AS DIRECTED BY THE PROJECT ENGINEER TO PERFORM THE ABOVE DETAILED WORK.

ITEM 203 ROADWAY, MISC.: DITCH CLEANOUT 400 CU.YD.

ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS PER ITEM 206 AT THE DIRECTION OF THE PROJECT ENGINEER. THE FOLLOWING LOCATIONS WILL BE CEMENT STABILIZED:

RAMPS @ I.R. 90 & S.R. 528
RAMP I - 2,891 SQ.YD.
RAMP J - 3,686 SQ.YD.
RAMP K - 2,411 SQ.YD.
RAMP L - 3,307 SQ.YD.
TOTAL 12,295 SQ.YD.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM THE STABILIZATION OF THE SUBGRADE FOR THE RAMPS AS LISTED ABOVE:

ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP 12,295 SQ.YD.
ITEM 206 CEMENT 366 TON
ITEM 206 CURING COAT 12,295 SQ.YD.
ITEM 206 CONTRACTOR DESIGNED CHEMICALLY STABILIZED SUBGRADE LUMP

CALCULATION:

CEMENT @ 59.4 LBS./S.Y.
12,295 S.Y. x 59.4 LBS. = 730,323 LBS. + 2000 = 366 TON

ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS PER ITEM 206 AT THE DIRECTION OF THE PROJECT ENGINEER. THE FOLLOWING LOCATIONS WILL BE CEMENT STABILIZED:

MAINLINE - I.R. 90 - 389,069 SQ.YD.
(ALTERNATE A) - TOTAL 389,069 SQ.YD.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM THE STABILIZATION OF THE SUBGRADE FOR THE MAINLINE OF I.R. 90 - (ALTERNATE A).

ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP 389,069 SQ.YD.
ITEM 206 CEMENT 11,556 TON
ITEM 206 CURING COAT 389,069 SQ.YD.
ITEM 206 CONTRACTOR DESIGNED CHEMICALLY STABILIZED SUBGRADE LUMP

CALCULATION:

CEMENT @ 59.4 LBS./S.Y.
389,069 S.Y. x 59.4 LBS. = 23,110,699 LBS. + 2000 = 11,556 TON

ITEM 202 PAVEMENT REMOVED, ASPHALT
ITEM 202 PAVEMENT REMOVED

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS DIRECTED BY THE PROJECT ENGINEER TO REMOVE THE EXISTING ASPHALT AND OR CONCRETE PAVEMENT ON THIS PROJECT. THIS ITEM OF WORK SHALL CONSIST OF REMOVING THE EXISTING PAVEMENT COMPLETELY.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER CMS
ITEM 202 PAVEMENT REMOVED, ASPHALT OR PAVEMENT REMOVED PER SQUARE YARD OF PAVEMENT REMOVED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER AS PER ITEM 202.

ITEM 202 PAVEMENT REMOVED 223,717 SQ.YD.
ITEM 202 PAVEMENT REMOVED, ASPHALT 132,469 SQ.YD.

CALCULATIONS:

ITEM 202 PAVEMENT REMOVED
(EX. 10" REINFORCED CONCRETE PAVEMENT AND 6 3/4" ASPHALT CONCRETE)

EXISTING I.R. 90 - (EASTBOUND & WESTBOUND LANES)

EASTBOUND LANES = 39,508.55'
WESTBOUND LANES = 37,408.55'
TOTAL = 76,917.10'

(76,917.10' x 24.0') + 9 = 205,113 SQ.YD.

EXISTING RAMPS - (RAMPS I, J, K, L)

TOTAL LENGTH OF RAMPS - 3,496'

(3,496.0' x 16.0') + 9 = 6,216 SQ.YD.

ADDITIONAL AREAS: EXISTING ACCELERATION/DECELERATION LANES

RAMP I = (1,202' x 19.5' AVG.) + 9 = 2,605 SQ.YD.
RAMP J = (1,685' x 19.5' AVG.) + 9 = 3,651 SQ.YD.
RAMP K = (1,200' x 19.5' AVG.) + 9 = 2,600 SQ.YD.
RAMP L = (1,630' x 19.5' AVG.) + 9 = 3,532 SQ.YD.

SUBTOTAL = 12,388 SQ.YD.

TOTAL ITEM 202 PAVEMENT REMOVED = (205,113 + 6,216 + 12,388)
= 223,717 SQ. YD.

ITEM 202 PAVEMENT REMOVED, ASPHALT
(EX. 9 3/4" ASPHALT CONCRETE SHOULDERS)

EXISTING I.R. 90 - (EASTBOUND & WESTBOUND SHOULDERS)

EASTBOUND SHOULDERS (5' MED. & 10' OUTSIDE) = 39,508.55'
WESTBOUND SHOULDERS (5' MED. & 10' OUTSIDE) = 37,408.55'
TOTAL = 76,917.10'

(76,917.10' x 15.0') + 9 = 128,196 SQ.YD.

EXISTING RAMP SHOULDERS (3' INSIDE & 8' OUTSIDE) - (RAMPS I, J, K, L)

TOTAL LENGTH OF RAMPS - 3,496'

(3,496.0' x 11.0') + 9 = 4,273 SQ.YD.

TOTAL ITEM 202 PAVEMENT REMOVED, ASPHALT = (128,196 + 4,273)
= 132,469 SQ. YD.

CALCULATED

CHECKED

GENERAL NOTES

LAK-90-21.40
ATB-90-0.00

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ROADWAY

Item 606 – Anchor Assembly, Type E-98

This item shall consist of furnishing and installing either of the following guardrail end terminals, or an approved equal as listed on Roadway Engineering's web page at www.dot.state.oh.us/drrc/ under Roadside Safety Devices for approved guardrail end treatments:

- 1) The ET-2000 (1997) manufactured by Trinity Industry, 1170 N. State Street, Girard, Ohio 44420 (Telephone: 330-645-4373).

The length of the ET-2000 (1997) system is considered to be 50'-0" [15.24 m] inclusive of two 25'-0" [7.62 m] long rail elements. Installation shall be at the locations specified in the plans, in accordance with the manufacturer's specifications as detailed on the following pre-approved shop drawings:

DWG. #	Drawing Name	DWG./REV. Date	ODOT Approval Date
SS373	ET-PLUS-50'-0" with 25' or 12'-6" Panels, 7 SYT Posts & 1 HBA Post Plan, Elevation & Sections	1/20/09	1/23/09
SS142	ET-2000 Plus 50'-0" Plan, Elevation, & Section 25'-0" Rail, Sleeve w/PL Posts 1-4	4/12/00	7/31/00
SS141	ET-2000 Plus Plan, Elevation, & Section 25'-0" Rail, HBA Posts 1-4	2/29/00	7/31/00
SS158	ET-2000 Plus 50'-0" with 12'-6" Panels & HBA Posts 1-4 Plan, Elevation, & Section	5/22/00	7/31/00

- 2) The SKT-350 manufactured by Road Systems, Inc., 2516 Mallory Lane, Stow, Ohio 44224 (Telephone: 330-346-0721)

The length of the SKT-350 system is considered to be 50'-0" [15.24 m] inclusive of four 12'-6" [7.62 m] long rail elements. Installation shall be at the locations specified in the plans, in accordance with the manufacturer's specifications as detailed on the following pre-approved shop drawings:

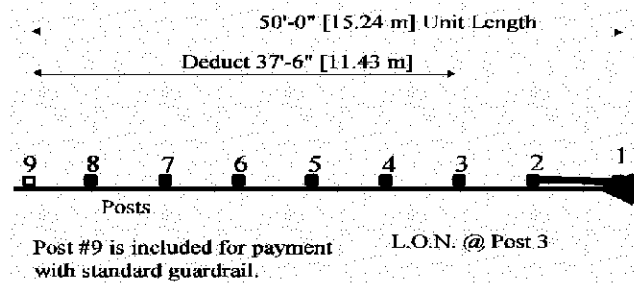
DWG. #	Drawing Name	DWG./REV. Date	ODOT Approval Date
SKT-4M	Sequential Kinking Terminal (SKT-350) Assembly with 4 Foundation Tubes	12/11/97	3/6/98
SKT Hinge CRT	Sequential Kinking Terminal SKT Assembly, Hinge CRT System	4/30/06	5/23/06
SKT-SP-S-375	SKT Terminal, 27-3/4" Top of Rail, Single Anchor, 7 Post System	3/04/09	3/30/09

The face of the Type E-98 impact head shall be covered with a sheet of Type G reflective sheeting, per CMS 730.19, approximately 18" x 18" [450 mm x 450 mm], or 12" [300 mm] x 18" [450 mm] if applied to a rectangular ET-2000 "Plus" extruder head.

Refer to the manufacturer's instruction regarding the installation of, and the grading around, the foundation tubes and ground strut. The top of any foundation tubes should be an appropriate depth below the level line in order to maintain the finished guardrail height of 27-3/4-inches [706 mm] from the edge of the shoulder.

On-site grading is required if the top of the foundation tubes or top of the ground strut does project more than 4-inches [100 mm] above the ground line.

Payment for the above work shall be made at the unit price bid for Item 606, Anchor Assembly, Type E-98, Each, and shall include all labor, tools, equipment and materials necessary to construct a complete and functional anchor assembly system, including all related transitions, reflective sheeting, hardware, grading, embankment, and excavation not separately specified, as required by the manufacturer.



PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING 209, LINEAR GRADING AS PER PLAN, AND PAVING UNDER THE GUARDRAIL USING 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22, UNDER GUARDRAIL, AS PER PLAN.

ITEM 209, LINEAR GRADING AS PER PLAN, SHALL CONSIST OF EXCAVATING TOPSOIL, PLACING GRANULAR MATERIAL AND APPLYING HERBICIDE AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING, AS PER PLAN.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 448 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING, METHODS:

METHOD A: 1) SET GUARDRAIL POSTS

2) PLACE ITEM 448

METHOD B: 1) PLACE ITEM 448

2) BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)

3) SET GUARDRAIL POSTS

4) PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 448, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE I, PG 64-22, UNDER GUARDRAIL, AS PER PLAN.

ITEM SPECIAL - MISC.: WIRELESS ROADWAY MOUNTED SENSOR REMOVAL AND INSTALLATION

THIS WORK SHALL CONSIST OF REMOVING THE EXISTING SENSORS AND CANISTERS AND THEN INSTALLING THE ORIGINAL SENSORS IN NEW CANISTERS AT THE LOCATIONS SHOWN ON SHEET 154. AFTER REMOVAL, THE SENSORS SHALL BE SAFELY STORED BY THE ENGINEER FOR REINSTALLATION UPON COMPLETION OF THE PAVEMENT REPLACEMENT.

THE CONTRACTOR SHALL NOTE THE LOCATION OF THE EXISTING SENSORS AND REINSTALL THEM AT APPROXIMATELY THE SAME LOCATION. INSTALLATION OF THE CANISTERS AND SENSORS SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. THE FOLLOWING CANISTERS SHALL BE USED WITH THE SENSORS AND PAID FOR UNDER THIS ITEM OF WORK:

NU METRICS - G4/G8 WX CANISTER / PART NO. 90000034

M. H. Corbin, Inc.
8420 Estates Ct.
Plain City, Ohio 43064
Maxwell H. Corbin, III
800-380-1718

THE ENGINEER SHALL CONTACT PAUL ENSINGER, DISTRICT 4 ROADWAY SERVICES (330) 786-3135 FIVE (5) WORKING DAYS PRIOR TO REMOVAL AND INSTALLATION OF THE SENSORS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - MISC.: WIRELESS ROADWAY MOUNTED SENSOR REMOVAL AND INSTALLATION.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL - MISC.: WIRELESS ROADWAY MOUNTED SENSOR REMOVAL AND INSTALLATION 4 EACH

ITEM SPECIAL - MISC.: WIRELESS ROADWAY MOUNTED SENSOR COMMISSIONING

THIS ITEM SHALL BE USED TO ENSURE THE WIRELESS ROADWAY MOUNTED SENSORS COMMUNICATE WITH THE CPU IN THE CONTROLLER CABINET. THE ITEM SHALL INCLUDE THE CALIBRATION AND TESTING OF THE NEWLY INSTALLED SENSORS PER THE MANUFACTURERS SPECIFICATIONS.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL - MISC.: WIRELESS ROADWAY MOUNTED SENSOR COMMISSIONING 4 EACH

GENERAL NOTES

LAK-90-21.40
ATB-90-0.00

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DRAINAGE & EROSION CONTROL

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

TOPSOIL

TOPSOIL WILL BE STRIPPED FROM AREAS TO BE EXCAVATED OR FILLED. ADDITIONAL SUITABLE MATERIAL WILL BE REQUIRED TO FILL THE TOPSOIL STRIP AREA IN EMBANKMENT AREAS. TOPSOIL STRIPPING AND ANY STOCKPILING INCLUDING ALL LABOR, EQUIPMENT AND MATERIALS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT BID ITEM 203 EMBANKMENT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

ITEM 202 PIPE REMOVED, 24" AND UNDER

THE FOLLOWING QUANTITY HAS BEEN PROVIDED TO BE USED AS DIRECTED BY THE PROJECT ENGINEER TO REMOVE THE EXISTING UNDERDRAINS ON THIS PROJECT. FOR LOCATIONS OF EXISTING UNDERDRAINS, SEE EXISTING TYPICAL SECTIONS.

THIS ITEM OF WORK SHALL CONSIST OF REMOVING THE EXISTING UNDERDRAINS COMPLETELY.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 202 PIPE REMOVED, 24" AND UNDER PER FOOT OF EXISTING UNDERDRAINS REMOVED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER AS PER ITEM 202.

ITEM 202 PIPE REMOVED, 24" AND UNDER 160,827.00 FT.

CALCULATIONS:

EXISTING I.R. 90 - (EASTBOUND & WESTBOUND LANES)

EASTBOUND LANES = 39,508.55 FT. x 2 = 79,017.10 FT.
WESTBOUND LANES = 37,408.55 FT. x 2 = 74,817.10 FT.

EXISTING RAMPS - (RAMPS I, J, K, L)
3,496.0 FT. x 2 = 6,992.0 FT.

TOTAL = 160,826.20 FT.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603

ITEM 604 SPECIAL - MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIALS SHALL MEET THE REQUIREMENTS ITEM 604 AND SHALL HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE PROJECT ENGINEER.

ITEM SPECIAL - MISCELLANEOUS METAL 5,000 LB.

ITEM 605 6" SHALLOW PIPE UNDERDRAINS (30" DEEP) WITH FABRIC WRAP, AS PER PLAN
ITEM 605 6" BASE PIPE UNDERDRAINS (18" DEEP) WITH FABRIC WRAP, AS PER PLAN
ITEM 605 6" UNCLASSIFIED PIPE UNDERDRAIN WITH FABRIC WRAP, AS PER PLAN

THE SIZE OF THE UNDERDRAIN PIPE WILL NOT BE REDUCED FROM THE SIZE SPECIFIED IN THE PLANS/PROPOSAL.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, REPAIR SEEDING AND MULCHING 22,451 SQ. YD
5% OF PERMANENT SEEDED AREA
.05 X 449,016 SQ.YD. = 22,451 SQ. YD.

ITEM 659, INTER-SEEDING 22,451 SQ. YD.
5% OF PERMANENT SEEDED AREA
.05 X 449,016 SQ.YD. = 22,451 SQ. YD.

ITEM 659, TOPSOIL 49,890 CU. YD.
449,016 SQ.YD. X ((4/12)+3) = 49,890 CU.YD.

ITEM 659, SOIL ANALYSIS TEST 5 EACH
49,890 CU.YD. + 10,000 = 4.9 EACH

ITEM 659, COMMERCIAL FERTILIZER 61 TON
1 TON 7410 SQ.YD. OF PERMANENT SEEDED AREA
449,016 SQ.YD. + 7410 = 60.6 TON

ITEM 659, LIME 93 ACRES
449,016 SQ.YD. + 4840 = 92.8 ACRES

ITEM 659, WATER 2425 M. GAL.
0.0054 M.GAL. PER SQ.YD. OF PERMANENT SEEDED AREA
449,016 SQ.YD. X 0.0054 = 2,424.7 M. GAL.

ITEM 659, MOWING 1,011 M. SQ. FT.
0.00225 M.SQ.FT. PER SQ.YD. OF THE PERMANENT SEEDED AREA
449,016 SQ.YD. X 0.00225 = 1,010.3 M.SQ.FT.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

GENERAL NOTES

LAK-90-21.40
ATB-90-0.00

25
498

PAVEMENT

ITEM 617 COMPACTED AGGREGATE, AS PER PLAN A ITEM 617 COMPACTED AGGREGATE, AS PER PLAN B

THIS ITEM WILL BE USED ALONG ALL THE SHOULDERS. MATERIAL WILL BE LIMITED TO ASPHALT GRINDINGS.

THE ACTUAL DEPTH USED WILL BE 4 INCHES. WATER, IF NEEDED WILL BE APPLIED AS PER 617 AND INCLUDED FOR PAYMENT UNDER ITEM 617 COMPACTED AGGREGATE, AS PER PLAN A OR B.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

ITEM 618 RUMBLE STRIPS, (ASPHALT CONCRETE)

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE INSTALLATION OF ITEM 618 RUMBLE STRIPS, (ASPHALT CONCRETE), AS PER STANDARD CONSTRUCTION DRAWING BP-9.1.

ITEM 618 RUMBLE STRIPS, (ASPHALT CONCRETE) 29.14 MILE

ASPHALT CONCRETE

INDIVIDUAL LIFT THICKNESSES AND STEP WIDTHS SHOWN IN THE PLAN ARE THE PLAN LINES AND DIMENSIONS USED FOR QUANTITY CALCULATION. THEY ARE NOT THE REQUIRED LIFTS OR STEPS FOR ACTUAL CONSTRUCTION BUT NO ADJUSTMENT WILL BE MADE TO THE PLAN QUANTITY DUE TO DIFFERENT LIFT THICKNESSES AND/OR STEP WIDTHS WHEN A UNIFORM THICKNESS IS SPECIFIED.

ITEM 452 - 12.5" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN A

IN ADDITION TO THE REQUIREMENTS OF ITEM 452 AND STANDARD DRAWING BP-2.2, ALL CONTRACTION AND EXPANSION JOINTS IN THE SHOULDERS SHALL BE CONSTRUCTED WITH DOWEL BARS.

ALL REFERENCES TO ITEM 452 - 12 1/2" NON-REINFORCED CONCRETE PAVEMENT IN THESE PLANS SHALL READ ITEM 452 - 12.5" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN A

ITEM 452 - 12.5" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN B

THIS ITEM WILL BE USED IN THE AREA OF THE RAMPS, AS FOLLOWS:

RAMP I - STA. 11+50.00 TO STA. 12+62.90

RAMP K - STA. 0+10.84 TO STA. 1+00.00

RAMP L - STA. 0+12.79 TO STA. 1+00.00

ITEM 452 12.5" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN B WILL BE USED TO CONSTRUCT THE RAMPS IN THESE AREAS AS DIRECTED BY THE PROJECT ENGINEER. THE CONCRETE FOR THE AREAS WILL BE CLASS MS, AS PER 499.05 (B).

IN ADDITION TO THE REQUIREMENTS OF ITEM 452 AND STANDARD DRAWING BP-2.2, ALL CONTRACTION AND EXPANSION JOINTS IN THE SHOULDERS SHALL BE CONSTRUCTED WITH DOWEL BARS.

ALL REFERENCES TO ITEM 452 - 12 1/2" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN IN THESE PLANS SHALL READ ITEM 452 - 12.5" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN B.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (44B), AS PER PLAN

THE COARSE AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO AND LIMESTONE. THE CONTRACTOR SHALL USE A MINIMUM OF 50% OF ACBFS OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

WHEN ACBFS IS USED FOR A FRACTION OF THE COARSE AGGREGATE, ALL REQUIREMENTS OF 442 APPLY, EXCEPT USE AN NDES OF 50, AN NMAX OF 75 AND PROVIDE A TOTAL ASPHALT BINDER CONTENT GREATER THAN OR EQUAL TO 6.5 PERCENT. THESE REQUIREMENTS DO NOT APPLY IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE.

TRAFFIC CONTROL

ITEM 620 DELINEATOR INSTALLED, BY TYPE, BY SUPPORT

FLEXIBLE POSTS SHALL BE INSTALLED SO THAT THE FACE OF THE REFLECTOR, OTHER THAN RED IS 90 DEGREES TO THE CENTERLINE FACING APPROACHING TRAFFIC AND TO SUCH A DEPTH THAT THE TOPS OF THE INSTALLED REFLECTORS SHALL BE 4 FEET PLUS OR MINUS ABOVE THE ELEVATION OF THE ADJACENT EDGE OF PAVEMENT. SEE STANDARD CONSTRUCTION DRAWING TC-61.10 FOR ADDITIONAL DETAILS.

ITEM 640 LANE LINE, AS PER PLAN

THE WIDTH OF THE LANE LINE WILL BE 6".

ITEM 621 RAISED PAVEMENT MARKER REMOVED

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE REMOVAL AND DISPOSAL OF THE EXISTING RAISED PAVEMENT MARKERS, AS DIRECTED BY THE PROJECT ENGINEER

ITEM 621 RAISED PAVEMENT MARKER REMOVED 759 EACH

GENERAL NOTES

LAK-90-21.40
ATB-90-0.00

26
498

ITEM 614 MAINTAINING TRAFFIC

THE INTENT OF THIS PROJECT IS TO RECONSTRUCT THE PAVEMENT ON I.R. 90 AND THE RAMPS AT THE S.R. 528 INTERCHANGE WHILE MAINTAINING TWO LANES OF TRAFFIC IN EACH DIRECTION.

GENERAL

TWO (2) LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON I.R. 90, EXCEPT FOR MINIMUM PERIODS, AS NOTED IN THE "PERMITTED LANE CLOSURE" NOTE WHEN ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE PERMITTED.

I.R. 90 PAVEMENT REPLACEMENT WILL REQUIRE FOUR (4) SEPARATE PHASES AS DETAILED ON THE M.O.T. PLAN SHEETS.

WHENEVER CROSSEOVERS ARE USED FOR MAINTAINING TRAFFIC, A WORK ZONE CROSSEOVER LIGHTING SYSTEM AS PER MT-100 SHALL BE INSTALLED. EACH CROSSEOVER LIGHTING SYSTEM SHALL BE PAID FOR SEPARATELY UNDER ITEM 614 - WORK ZONE CROSSEOVER LIGHTING SYSTEM.

MAINTAINING TRAFFIC NOTIFICATION

SINCE FUNCTIONAL TRAFFIC CONTROL IS A MAJOR CONCERN ON THIS PROJECT, IT IS ESSENTIAL THAT THE MOTORING PUBLIC BE ADEQUATELY FOREWARNED OF FUTURE LANE CLOSURES OR TRAFFIC CONSTRUCTIONS. THEREFORE, THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE TO THE ENGINEER, RESPONSIBLE LAW ENFORCEMENT AGENCIES AND THE ODOT - DISTRICT 12 - PUBLIC INFORMATION OFFICE (216-584-2007) INDICATING THE LOCATIONS AND DATES OF THE LANE CLOSURES OR TRAFFIC CONSTRUCTIONS AT LEAST 3 DAYS PRIOR TO THE IMPLEMENTATION OF ANY SUCH TRAFFIC DISRUPTION.

ADDITIONALLY, PROVIDE NOTICE TO THE FOLLOWING ENTITIES:

LAKE COUNTY MANAGER: (440) 354-2191 LEROY TOWNSHIP: (440) 254-4236
MADISON TOWNSHIP: (440) 428-5128 PERRY TOWNSHIP: (440) 259-5140
LAKETRAN: (800) 400-1300 HIGHWAY PATROL (CHARDON): (440) 286-6612

TWO LANE TRAFFIC WIDTH REQUIREMENTS

UNLESS SPECIFICALLY STATED OR SHOWN IN THE PLANS, TWO LANES OF TRAFFIC SHALL CONSIST OF A MINIMUM OF TWO 11'-0" WIDE LANES PLUS 12" MINIMUM BUFFER TO PORTABLE CONCRETE BARRIER (PCB) AND 2' MINIMUM OFFSET TO DRUMS, OR EDGES OF PAVED SURFACES. THUS THE MINIMUM TWO LANE TRAFFIC WIDTH SHALL BE LIMITED TO 25'-0" CLEAR WIDTH.

PERMITTED LANE CLOSURES

ALL LANE CLOSURES ON I.R. 90 MAY ONLY BE IMPLEMENTED AT THE TIMES PERMITTED BY THE "DISTRICT 12 PERMITTED LANE CLOSURE TIMES" LIST, WHICH IS LOCATED ON THE ODOT WEB SITE:

www.dot.state.oh.us/dist12/workzone/laneclo.htm

THE LATEST REVISION, AT 14 DAYS PRIOR TO THE BID DATE, SHALL BE IN EFFECT FOR THIS PROJECT.

NO LANE OR TEMPORARY SHOULDER CLOSURES SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED.

IF LANE CLOSURES ARE IN PLACE OUTSIDE THE SPECIFIED TIME, LIQUIDATED DAMAGES IN THE AMOUNT OF \$100.00 PER MINUTE SHALL BE ASSESSED THE CONTRACTOR FOR EACH MINUTE THE LANE REMAINS CLOSED.

LANE CLOSURES ANALYSIS FOR ADDITIONAL LANE CLOSURE TIMES

IF THE CONTRACTOR WOULD LIKE TO CLOSE LANES OUTSIDE THE TIME PERMITTED THERE MUST FIRST BE A LANE CLOSURE ANALYSIS. A LANE CLOSURE ANALYSIS SHALL BE DONE AND DOCUMENTED IN THE FOLLOWING MANNER:

LANES MAY BE CLOSED IF THE HOURLY COUNTS ARE LESS THAN THE COUNTS GIVEN BELOW. IF THE ADDITIONAL HOURS ARE ON A WEEKDAY, THE COUNT MUST BE DONE ON A WEEKDAY. SAME FOR A WEEKEND.

FOR 1 OUT OF 2 LANES CLOSED:

TWO HOURLY COUNTS SHALL BE DONE FOR THE ADDITIONAL TIMES THE CONTRACTOR WOULD LIKE TO CLOSE AN ADDITIONAL LANE. IF THE HOURLY COUNT IS UNDER 1100 VEHICLES PER HOUR FOR WEEKDAYS AND 1400 VEHICLES PER HOUR FOR WEEKENDS, THEN THE CONTRACTOR MAY CLOSE A LANE DURING HOURS THAT MEET THIS CRITERIA.

THE TRAFFIC COUNTS SHALL BE TURNED INTO THE WORK ZONE TRAFFIC CONTROL ENGINEER FOR APPROVAL OF THE NEW TIMES. IF A BACK UP (STOP AND GO TRAFFIC) OR DELAY (SPEEDS BELOW 40 MPH) OCCURS DURING THE NEW CLOSURE TIMES, THE CONTRACTOR SHALL DO ANOTHER ANALYSIS. IF A TRAFFIC BACKUP OR DELAY OCCURS AFTER THE SECOND ANALYSIS, THE CONTRACTOR SHALL NOT CLOSE THE LANES FOR THE ADDITIONAL HOURS.

TRUCK MOUNTED ATTENUATOR

WHEN THE CONTRACTOR IS SETTING SHORT TERM WORK ZONES AND THE SHOULDERS (RIGHT OR LEFT SHOULDER) ARE LESS THAN 10 FEET IN WIDTH AND ARE ON A ROAD WITH SPEEDS 45 MPH OR HIGHER, A TRUCK MOUNTED ATTENUATOR (TMA) MUST TRAIL THE OPERATION OF SETTING THE ADVANCE WARNING SIGNS UP OR TAKING THEM DOWN. THIS SAME TRUCK MUST HAVE A TYPE B FLASHING ARROW PANEL MOUNTED ON IT FACING THE REAR OF THE TRUCK.

THE TMA MUST BRING A VEHICLE WEIGHING 1800 TO 4500 POUNDS AND TRAVELLING AT 60 MPH TO A SAFE, CONTROLLED STOP, PER NCHRP 350 CRITERIA. THE MANUFACTURER'S SPECIFICATION MUST BE FOLLOWED CONCERNING THE SIZE OF THE TRUCK AND THE CONNECTIONS TO THE TMA.

PAVEMENT WORK AREA DEFINITION

THROUGHOUT THESE NOTES, THE PAVEMENT WORK AREAS WHICH ARE TO BE COMPLETED AND LIMITS OF THAT WORK IS DESCRIBED. ALTHOUGH NOT SPECIFICALLY STATED, ALL ASSOCIATED DRAINAGE WORK, GRADING, INSTALLATION OF EROSION CONTROL ITEMS, TRAFFIC CONTROL WORK, LIGHTING WORK, GUARDRAIL OR BARRIER WORK, ETC. IS ALSO TO BE PERFORMED DURING EACH PHASE OF CONSTRUCTION.

INTERIM COMPLETION REQUIREMENTS

OCTOBER 31, 2010 FOR SEASON 1 AND OCTOBER 31, 2011 FOR SEASON 2 WILL CONSTITUTE INTERIM COMPLETION DATES.

THE CONTRACTOR WILL HAVE TO COMPLETE ALL ITEMS OF WORK TO REOPEN TO TRAFFIC BOTH DIRECTIONS OF I.R. 90 RETURNED TO THE ORIGINAL TWO LANES SAME DIRECTION EACH SIDE DURING THE WINTER MONTHS.

REVISED SEQUENCE OF CONSTRUCTION

TO AVOID CONFLICT WITH A CONCURRENT BRIDGE PROJECT, WITHIN THE PROJECT LIMITS, THE PHASING FOR THIS PROJECT SHALL BE REVISED AS FOLLOWS:

PHASE 3 AND 4 AS SHOWN IN THESE PLANS SHALL OCCUR PRIOR TO PHASE 1 AND 2. INSTEAD OF TEMPORARY PAVEMENT BEING BUILT ADJACENT TO THE WB LANES TO MAINTAIN TRAFFIC IT SHALL BE BUILT ADJACENT TO THE EB LANES TO MAINTAIN TRAFFIC.

THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE USED:

PRE-PHASE

RECONSTRUCT AND CONSTRUCT TEMPORARY PAVEMENT FOR THE INSIDE AND OUTSIDE SHOULDERS FOR WB AND EB LANES. IN THE WB LANES, MILL AND FILL OUTSIDE RUMBLE STRIPS. CONSTRUCT ALL I.R. 90 CROSSEOVERS AS SHOWN ON PRE-PHASE 1 M.O.T. PLAN SHEETS. CLOSE THE ADJACENT LANE TO THESE WORK ITEMS USING DRUMS, NON-RUSH HOURS, AS PER THE "PERMITTED LANE CLOSURE" NOTE. INSTALL TEMPORARY CROSSEOVER LIGHTING.

SEQUENCE 1

AFTER COMPLETING THE WORK REQUIRED BY PRE-PHASE 1, SHIFT TRAFFIC PATTERNS AS SHOWN ON THE PHASE 3 M.O.T. PLAN SHEETS. THE EB LANES MAINTAIN TWO EB TRAFFIC LANES AND ONE WB CONTRA FLOW LANE. THE WB LANES MAINTAIN ONE WB TRAFFIC LANE WHILE CONSTRUCTING THE INSIDE PORTION OF THE WB LANES. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON PHASE 3 M.O.T. PLAN SHEETS.

WHILE TRUCK TRAFFIC IS DETOURED AS STATED IN THE PLANS, CONSTRUCT THE RAMP THROATS FOR RAMPS I, K AND L TO PROPOSED DIMENSIONS.

ONCE THROATS ARE CONSTRUCTED AND WHILE RAMP TRAFFIC IS MAINTAINED ON THE WB OUTSIDE TRAFFIC LANE, CONSTRUCT RAMPS J AND K AS SHOWN ON THE PHASE 1 AND PHASE 2 RAMP M.O.T. PLAN SHEETS. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON THE PHASE 1 M.O.T. PLAN SHEETS FOR RAMPS J AND K.

SEQUENCE 2

AFTER COMPLETING THE WORK REQUIRED BY SEQUENCE 1 AND MAINTAINING THE CURRENT TRAFFIC FLOW ON THE EB LANES, SHIFT THE ONE WB TRAFFIC LANE TO THE NEWLY CONSTRUCTED INSIDE PAVEMENT AND CONSTRUCT THE OUTSIDE PORTION OF THE WB LANES.

SEQUENCE 3

SWITCH EB AND WB TRAFFIC LANE PATTERNS. THE WB LANES MAINTAIN TWO WB TRAFFIC LANES AND ONE EB CONTRA FLOW LANE. THE EB LANES MAINTAIN ONE EB TRAFFIC LANE WHILE CONSTRUCTING THE INSIDE PORTION OF THE EB LANES.

WHILE RAMP TRAFFIC IS MAINTAINED ON THE EB OUTSIDE TRAFFIC LANE, CONSTRUCT RAMPS I AND L AS SHOWN ON THE PHASE 1 AND PHASE 2 RAMP M.O.T. PLAN SHEETS. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON THE PHASE 1 M.O.T. PLAN SHEETS FOR RAMPS I AND L.

SEQUENCE 4

AFTER COMPLETING THE WORK REQUIRED BY SEQUENCE 3 AND MAINTAINING THE CURRENT TRAFFIC FLOW ON THE WB LANES, SHIFT THE ONE EB TRAFFIC LANE TO THE NEWLY CONSTRUCTED INSIDE PAVEMENT AND CONSTRUCT THE OUTSIDE PORTION OF THE EB LANES.

DUE TO THE ABOVE CHANGE IN SEQUENCING, THE FOLLOWING ADDITIONAL QUANTITY SHALL BE USED TO CONSTRUCT THE TEMPORARY PAVEMENT ON

THE INSIDE AND OUTSIDE SHOULDERS OF THE EB PAVEMENT NEAR THE GRAND RIVER BRIDGE THAT WAS NOT REQUIRED IN THE ORIGINAL SEQUENCING.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A 4300 SQ. YD.

COVERING OF SIGNS

WHEN THE MESSAGE OF A PERMANENT SIGN CONFLICTS WITH A LONG TERM CLOSURE DURING A PHASE OF CONSTRUCTION, THE SIGN WILL BE COVERED. THE CONTRACTOR WILL DO SO IN SUCH A MANNER AS TO AVOID DAMAGING THE PERMANENT SIGN WHEN THE COVERING IS REMOVED. THE COVERING WILL BE TOTALLY OPAQUE. THE USE OF ADHESIVE TAPE APPLIED DIRECTLY TO A SIGN IS STRICTLY PROHIBITED.

CONSTRUCTION TRAFFIC

ALL CONSTRUCTION TRAFFIC WILL USE ACCEPTABLE TRUCK ROUTES TO ACCESS THE CONSTRUCTION AREA. USE OF LOCAL RESIDENTIAL STREETS IS STRICTLY PROHIBITED UNLESS ALLOWED IN WRITING BY THE LOCAL ENFORCEMENT AUTHORITY.

GENERAL

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THRU VEHICULAR ACCESS AT ALL TIMES THROUGHOUT THE PROJECT AREA. THE PROJECT WILL BE CONSTRUCTED IN PHASES IN ORDER TO MINIMIZE TRAFFIC DISRUPTION AND INCONVENIENCE TO THE GENERAL PUBLIC. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MATERIALS AND MANPOWER NEEDED TO ADEQUATELY MAINTAIN TRAFFIC AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR IS REMINDED THAT, IN THE CONDUCT OF THIS PROJECT, HIS SEQUENCE OF OPERATIONS WILL BE PLANNED IN SUCH A WAY AS TO MINIMIZE THE NUMBER OF LANE REDUCTIONS AND/OR LANE WIDTH REDUCTIONS REQUIRED TO MAINTAIN TRAFFIC THROUGH THE PROJECT.

PERMITTED LANE CLOSURES WILL BE AS SHOWN ON THE "SCHEDULE OF THRU LANES TO BE MAINTAINED TABLE." THE TIME LIMITS SHOWN IN THIS TABLE WILL BE ADHERED TO OR LIQUIDATED DAMAGES WILL BE ACCESSED.

SUSPENSION OF WORK

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE ENGINEER WILL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

HOLIDAY CLOSURES

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES, EXCEPT FOR THE LONGTERM LANE CLOSURE SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	NEW YEARS	MOTHERS DAY
MEMORIAL DAY	FOURTH OF JULY	EASTER
LABOR DAY	THANKSGIVING	

THE PERIOD OF TIME THAT THE LANES ARE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD.

DAY OF THE WEEK TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY	12:00N FRIDAY	THROUGH 12:00N MONDAY
MONDAY	12:00N FRIDAY	THROUGH 12:00N TUESDAY
TUESDAY	12:00N MONDAY	THROUGH 12:00N WEDNESDAY
WEDNESDAY	12:00N TUESDAY	THROUGH 12:00N THURSDAY
THURSDAY	12:00N WEDNESDAY	THROUGH 12:00N MONDAY
FRIDAY	12:00N THURSDAY	THROUGH 12:00N MONDAY
SATURDAY	12:00N FRIDAY	THROUGH 12:00N MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES. UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH TABLE 108.07-1.

ITEM 614, WORK ZONE SPEED LIMIT SIGN
ITEM 614, SPEED ZONE AHEAD SYMBOL SIGN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, COVER DURING SUSPENSION OF WORK, AND SUBSEQUENTLY REMOVE WORK ZONE SPEED LIMIT (R2-1) SPEED LIMIT SIGNS AND SUPPORTS WITHIN THE WORK LIMITS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SPEED LIMIT SIGNS WITHIN THE REDUCED SPEED ZONE. THESE SIGNS SHALL BE RESTORED DURING SUSPENSION OR TERMINATION OF THE REDUCED SPEED LIMIT. THE EXPENSE OF COVERING OR REMOVAL AND RESTORATION OF EXISTING SPEED LIMIT OR MINIMUM SPEED LIMIT SIGNS SHALL BE INCLUDED IN THE PAY ITEM FOR THE WORK ZONE SPEED LIMIT SIGNS.

THE WORK ZONE SPEED LIMIT SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE DAYS, SUCH AS DURING WINTER SHUT-DOWNS. CLEANUP WORK AND OTHER WORK BEYOND THE SHOULDER SUCH AS SEEDING, TO BE PERFORMED AFTER RESTORATION OF ALL FULL-WIDTH LANES AND SHOULDERS TO TRAFFIC, DOES NOT CONSTITUTE A CONDITION WARRANTING A SPEED REDUCTION. THEREFORE, WHEN ACTIVITY IS LIMITED TO SUCH WORK, THE SPEED LIMIT IN EFFECT SHALL BE THE NORMAL SPEED LIMIT FOR THE SITE.

CONSTRUCTION AND MATERIALS SPECIFICATIONS, ITEM 614, PARAGRAPH 614.02(B) INDICATES THAT THE TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, SPEED REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE SPEED REDUCTION IN THE OPPOSITE DIRECTION. SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION, IN SUCH CASE, IS APPROPRIATE ONLY IF CONDITIONS ARE EXPECTED TO HAVE AN IMPACT ON THE DIRECTIONAL TRAFFIC FLOW, AS DIRECTED BY THE ENGINEER.

(THE CONTRACTOR SHALL ERECT A WORK ZONE SPEED LIMIT SIGN IN ADVANCE OF ANY LANE RESTRICTION EXPECTED TO LAST AT LEAST 30 CONSECUTIVE CALENDAR DAYS, OR AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE MOUNTED ON BOTH SIDES OF A DIRECTIONAL ROADWAY OF DIVIDED HIGHWAYS. THE FIRST WORK ZONE SPEED LIMIT SIGN SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF THE LANE REDUCTION OR SHIFT TAPER OR OTHER ROADWAY OR SHOULDER RESTRICTION. ON UNDIVIDED HIGHWAYS THE SIGN SHALL BE MOUNTED ON THE RIGHT SIDE, APPROXIMATELY 250 FEET IN ADVANCE OF SUCH RESTRICTIONS. THE SIGN SHALL BE REPEATED, EVERY 1 MILE FOR 55 MPH ZONES AND EVERY ONE-HALF MILE FOR 50 MPH AND 45 MPH ZONES. THESE SIGNS SHALL ALSO BE ERECTED IMMEDIATELY AFTER EACH OPEN ENTRANCE RAMP WITHIN THE ZONE.

ON PROJECTS FOR WHICH THE ACTIVITY OR ROADWAY RESTRICTION IS LIMITED TO ONE SECTION OF THE PROJECT FOR AT LEAST THIRTY DAYS AND THEN IS MOVED TO ANOTHER SECTION OF THE PROJECT UPON COMPLETION OF WORK IN THE FIRST SECTION, THE SPEED LIMIT REDUCTION SHALL BE LIMITED TO ONLY THE ACTIVE PORTION OF THE PROJECT AT THE GIVEN TIME. SIGNING FOR A SPEED LIMIT REDUCTION, AS WELL AS ALL OTHER ADVANCE CONSTRUCTION SIGNING, SHALL BE RELOCATED WHEN THE CONCENTRATION OF ACTIVITY IS RELOCATED.

ON PROJECTS FOR WHICH SPEED REDUCTION IS CALLED FOR ON MORE THAN ONE ROADWAY, THE DISPLAY OF REDUCED SPEED LIMIT SIGNING ON A GIVEN ROADWAY SHALL BE DEPENDANT ON THE SCHEDULING OF WORK ACTIVITY ON THE GIVEN ROAD- WAY.

SPEED REDUCTION SIGNS (W3-5) SHALL BE ERECTED IN ADVANCE OF THE SPEED REDUCTION, APPROXIMATELY 1250 FEET ON MULTI-LANE HIGHWAYS AND 500 FEET ON 2-LANE HIGHWAYS.

A SIGN(S) TO INDICATE THE RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE ERECTED AT THE END OF ANY REDUCED SPEED ZONE, TYPICALLY AT THE POINT WHERE ROADWAY AND SHOULDER WIDTHS RETURN TO NORMAL. ON UNDIVIDED ROADWAYS, THE R2-1 (SPEED LIMIT) SIGN SHALL BE USED. ON DIVIDED HIGHWAYS WHERE THE SPEED LIMIT VARIES BY VEHICLE TYPE, THE R2-1 (SPEED LIMIT) SIGN AND THE R2-H2A (TRUCK SPEED LIMIT) SIGNS SHALL BE MOUNTED SIDE-BY-SIDE ON SEPARATE SUPPORTS. THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD CONDITION, PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE SPEED LIMIT SIGNS SHALL BE MOUNTED ON TWO ITEM 630, GROUND MOUNTED SUPPORTS, NO. 3 POSTS.

WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGNS AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION WITHIN THE PROJECT DUE TO CHANGES IN THE SPEED ZONE DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVING THE SIGNS AND SUPPORTS. SPEED LIMIT SIGNING FOR THE POINT OF RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE PAID FOR AS WORK ZONE SPEED LIMIT SIGNS. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, WORK ZONE SPEED LIMIT SIGN 24 EACH
ITEM 614, SPEED ZONE AHEAD SYMBOL SIGN 14 EACH

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.04, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE CONCRETE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE, AND SHOULD BE LOCATED AT LEAST 30 FT (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

ITEM 614, BARRIER REFLECTORS AND/OR OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET.

ITEM 622, PORTABLE CONCRETE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE CONCRETE BARRIER (PCB) AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS SEE SCD RM-4.1. PLEASE NOTE THAT SCD RM-4.1 WAS UPDATED 10-20-06 TO PROVIDE A PCB WHICH IS COMPATIBLE WITH NCHRP 350 CRITERIA.

PORTABLE CONCRETE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF MATERIAL MANAGEMENT WEB PAGE. THE APPROVED LIST OF GLARE SCREENS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT, AND CHOOSING THE APPROVED LIST LINK.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE CONCRETE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURERS INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE CONCRETE BARRIER, 50 INCH, AS PER PLAN.

ITEM 614, WORK ZONE PAVEMENT MARKING, CLASS I, AS PER PLAN

THE WORK ZONE PAVEMENT MARKINGS, EDGE LINE AND LANE LINE, SHALL BE 6" WIDE.

WORK ZONE BRIDGE PROTECTION

PROTECTION FOR THE GRAND RIVER BRIDGE PARAPETS WILL BE NEEDED DURING PHASES 1 THROUGH 2 AND PHASES 3 THROUGH 4 MAINTENANCE OF TRAFFIC FOR THE CONTRA FLOW TRAFFIC SCHEME. THE FOLLOWING ITEMS OF WORK SHALL BE USED TO PROVIDE PROTECTION AND SHALL BE CARRIED TO THE GENERAL SUMMARY:

ITEM 614 WORK ZONE IMPACT ATTENUATOR
(UNIDIRECTIONAL) 2 EACH

ITEM 614 PORTABLE CONCRETE BARRIER,
32 INCH 400 FT

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ONE OF THE FOLLOWING IMPACT ATTENUATORS:

1. THE QUADGUARD CZ, (24 INCHES WIDE SIX-BAY) WORK ZONE IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., 35 EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750).

THE LENGTH OF THE SIX-BAY QUADGUARD CZ IS 20'-9". INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE- APPROVED SHOP DRAWINGS:

DRAWING NUMBER: QSCZCVR-T4 DRAWING NAME: QUADGUARD CZ SYSTEM FOR CONSTRUCTION ZONES REVISION DATE: 5/13/99 REV. J ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-10 DRAWING NAME: QUADGUARD SYSTEM CONCRETE PAD, CZ, QG REVISION DATE: 11/19/97 REV. D ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-16 DRAWING NAME: QUADGUARD SYSTEM BACKUP ASSEMBLY, CZ, QG REVISION DATE: 7/30/99 REV. F ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 354051Z DRAWING NAME: QUADGUARD CZ SYSTEM NOSE ASSEMBLY, CZ, QG, 24, 30, 36 REVISION DATE: 5/17/99 ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35-40-18 DRAWING NAME: TRANSITION ASSEMBLY, 4 OFFSET, QG REVISION DATE: 6/25/99 REV. F ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: 35400260 DRAWING NAME: QUADGUARD SYSTEM PCMB ANCHOR ASSEMBLY REVISION DATE: 11/19/97 REV. C ODOT APPROVAL DATE: 8/27/99

2. THE TRACC (TRINITY ATTENUATING CRASH CUSHION) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE TRACC IS 21'-0" LONG AND 2'-7" WIDE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: SS450 DRAWING NAME: CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS REVISION DATE: 3/12/99 REV. I ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS455 DRAWING NAME: TRACC TRANSITION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION & SECTIONS REVISION DATE: 2/18/99 ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS461 DRAWING NAME: TRACC TRANSITION TO CONCRETE SAFETY SHAPE BARRIER PLAN, ELEVATION & SECTIONS REVISION DATE: 6/30/99 REV. I ODOT APPROVAL DATE: 8/27/99

DRAWING NUMBER: SS462 DRAWING NAME: TRACC TRANSITION TO CONCRETE BARRIER SINGLE SLOPE PLAN, ELEVATION & SECTIONS REVISION DATE: 6/30/99 ODOT APPROVAL DATE: 8/27/99

3. THE BARRIER SYSTEMS, INC. TAU-II IMPACT ATTENUATOR, DISTRIBUTED BY ROAD SYSTEMS INC., SALES SUPPORT, 2183 ELM TRACE, AUSTINTOWN, OH 44515, (TELEPHONE 330-799-9291)

THE TAU-II FOR THIS NOTE IS A PARALLEL 8-BAY UNIT (24' LONG AND 35" WIDE). INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DRAWING NUMBER: A040416 DRAWING NAME: UNIVERSAL TAU-II PARTS LIST REVISION DATE: 4/22/04 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040420 DRAWING NAME: UNIVERSAL TAU-II FOUNDATION, FLUSH MOUNT BACKSTOP REVISION DATE: 4/28/04 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: A040105 DRAWING NAME: UNIVERSAL TAU-II FOUNDATION, PCB BACKSTOP (REFERENCED ON A04020) REVISION DATE: 1/07/04 ODOT APPROVAL DATE: 10/16/04

DRAWING NUMBER: B040239 DRAWING NAME: APPLICATION, FLUSH MOUNT BACKSTOP (TYPICAL FOR PARALLEL 60 MPH UNIT) REVISION DATE: 4/21/04 ODOT APPROVAL DATE: 10/16/04

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT, MAINTAIN AND REPAIR A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR- HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT- DOWNS.

(THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-USIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11- H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.)

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 14 EACH

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 497 M. GAL

0.004 M.GAL. PER CU.YD. OF THE TOTAL EARTHWORK
18,819 (EMBANKMENT) + 105,257 (EXCAVATION) = 124,076
124,076 CU.YD. X 0.004 = 496.3 M.GAL.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN (A)

THIS ITEM SHALL BE USED TO REPAIR HOLES IN THE ROADWAY SURFACE AND BERMS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MONITOR THE ROADWAY TO DETERMINE WHEN THE HOLES SHALL BE PATCHED. THE CONTRACTOR MUST NOTIFY THE ENGINEER FOR HIS/HER APPROVAL.

THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO MOTORIST VEHICLES IF THE HOLES ARE NOT FILLED IN A REASONABLE AMOUNT OF TIME.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ROADWAY AND BERMS (IN THE DIRECTION WORK IS BEING PERFORMED) FROM THE FIRST DAY OF WORK UNTIL CONSTRUCTION IS COMPLETE. THIS INCLUDES PERIODS WHEN WORK IS SUSPENDED.

THE CONTRACTOR HAS A MAXIMUM TIME OF 2 HOURS AFTER HE HAS BEEN INFORMED OF A POT HOLE, BY PROJECT PERSONNEL, TO TAKE CORRECTIVE ACTION. IF THE CONTRACTOR FAILS TO TAKE ACTION TO FIX THE POT HOLE WITHIN THE 2 HOUR LIMIT, THE CONTRACTOR SHALL BE CHARGED A LIQUIDATED DAMAGE OF \$1000 PER OCCURENCE.

THE PROCEDURE FOR PATCHING A HOLE IS:

REMOVE ALL LOOSE AND DISINTEGRATED ASPHALT OR CONCRETE TO AN EXTENT TO EXPOSE SOUND CONCRETE OR ASPHALT. THE PERIMETER OF ALL REMOVAL AREAS SHALL BE VERTICAL.

THE SURFACE TO BE PATCHED MUST BE CLEANED AND DRIED.

THE ENTIRE SURFACE SHALL BE TACK COATED, INCLUDING THE VERTICAL FACES.

ASPHALT CONCRETE SHALL BE IN ACCORDANCE TO ITEM 448 OR AS DETERMINED BY THE ENGINEER. IT SHALL BE PLACED IN 2 INCH LIFTS AND COMPACTED TO THE LEVEL OF THE WEARING SURFACE.

DURING WINTER MONTHS ONLY WHEN ASPHALT IS NOT AVAILABLE OR AT THE DIRECTION OF THE ENGINEER COLD MIX MAY BE USED. COMPACTION EQUIPMENT MUST BE APPROVED BY THE ENGINEER.

ALL TRAFFIC CONTROL NEEDED FOR THIS ITEM OF WORK SHALL BE INCLUDED IN THIS ITEM OF WORK.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN (A) 200 CU.YD.

ITEM 630 - SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED AS DIRECTED BY THE ENGINEER

WHEN ADDITIONAL SIGNING IS NEEDED TO MAINTAIN TRAFFIC, THE CONTRACTOR SHALL FURNISH THE SIGN OR SIGNS AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE GROUND MOUNTED AND MEET ALL THE SPECIFICATIONS OF THE PLAN, PROPOSAL AND CURRENT YEAR CMS.

PAYMENT FOR THIS ITEM SHALL INCLUDE BUT NOT BE LIMITED TO THE COST TO FURNISH AND ERECT THE SIGN, INCLUDING DRIVE POSTS OR OTHER APPROVED METHODS OF SUPPORT, MAINTAINING THE SIGN AND REMOVAL OF THE SIGN.

THE FOLLOWING QUANTITY SHALL BE CARRIED TO THE GENERAL SUMMARY:

ITEM 630 - SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER 600 SQ.FT.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT. AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PREPROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ONBOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER- DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 120 SIGN-MONTH
(4 SIGNS x 27 MONTHS = 108 SIGN-MONTHS)
(6 SIGNS x 2 MONTHS = 12 SIGN-MONTHS)

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT GENERALLY BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED. IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

ROUTINE PATROLLING THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) AS SPECIFIED IN THE PLANS.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LIST OF THE APPROPRIATE LAW ENFORCEMENT AGENCY(S), INCLUDING ADDRESS AND TELEPHONE NUMBER.

THE LEO SHOULD REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING THE SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF THE SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHOULD NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF THE SHIFT.

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 250 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR.

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 10 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

EXCAVATION FOR MAINTAINING TRAFFIC 36,657 CU. YD.
EMBANKMENT FOR MAINTAINING TRAFFIC 7,877 CU.YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

Item 614 - Maintaining Traffic (Replacement Drums)

Drums furnished by the Contractor in accordance with the requirements of the plans, specifications and proposal which become damaged by traffic for reasons beyond the control of the Contractor shall be replaced in kind when ordered by the Engineer. Replacement drums shall be new.

Payment for the new drums shall be included in the lump sum contract price for Item 614 Maintaining Traffic, and shall include the cost of removing and disposing of the damaged drum, and providing and maintaining the replacement drum in accordance with the contract requirements for the original drum.

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).
2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703-235-0528.
3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-614-599-7915.
4. OHIO LABORERS TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS, PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTSS CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7) THE CONTRACTOR MAY DESIGNATE AN ALTERNATE WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY. EACH WTS SHALL HAVE A CURRENT WTS CERTIFICATION (WITH AN EXPIRATION DATE NO MORE THAN 5 YEARS FROM THE DATE OF ISSUE) FROM ANY OF THE APPROVED ORGANIZATIONS.

THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING AND CORRECTING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES.
2. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.
3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.
4. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.
5. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). A WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE THEY ARE ON THE PROJECT.
6. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.
7. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.
8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.
9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, A WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:
 - A. INITIAL TRAFFIC CONTROL SETUP (DAY AND NIGHT REVIEW).
 - B. DAILY TRAFFIC CONTROL SETUP AND REMOVAL.
 - C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TRAFFIC CONTROL SETUP.
 - D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA.
 - E. REMOVAL OF TRAFFIC CONTROL DEVICES AT THE END OF A PHASE OR PROJECT.
 - F. ALL OTHER EMERGENCY TRAFFIC CONTROL NEEDS.

10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN * 9 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC CONTROL MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THIS DOCUMENT CAN BE FOUND IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.

11. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

12. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL NOT PAY THE UNIT PRICE BID FOR THE WTS FOR ANY DAY ON WHICH THE CONTRACTOR FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTORS NEXT SCHEDULED ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR, THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR THE WORKSITE TRAFFIC SUPERVISOR:

ITEM 614 WORKSITE TRAFFIC SUPERVISOR 27 MONTHS

REMOVAL OF RUMBLE STRIPS

PRIOR TO SHIFTING TRAFFIC ONTO AN EXISTING PAVED SHOULDER WITH RUMBLE GROOVES, THE CONTRACTOR SHALL MILL THE RUMBLE GROOVES (2' x 1.5") ON I.R.90 MAINLINE SHOULDERS AND AT CROSSOVERS AS PER ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE AND FILL THE MILLED AREA WITH ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC. THE COSTS OF REMOVAL AND PLACEMENT SHALL BE INCLUDED UNDER ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN.

THE FOLLOWING ITEM SHALL BE USED FOR THIS PURPOSE:
(6,600' X 2' X 1.5"/27 = 62 CU.YD.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN 62 CU.YD.

ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS PER ITEM 206 AT THE DIRECTION OF THE PROJECT ENGINEER. THE FOLLOWING LOCATIONS WILL BE CEMENT STABILIZED:

I.R. 90

TEMPORARY CROSSOVER 1 - 1,093 SQ.YD.
TEMPORARY CROSSOVER 2 - 1,208 SQ.YD.
TEMPORARY CROSSOVER 3 - 839 SQ.YD.
TEMPORARY CROSSOVER 4 - 1,008 SQ.YD.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM THE STABILIZATION OF THE SUBGRADE AS LISTED ABOVE:

ITEM 206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP 4,148 SQ.YD.
ITEM 208 CEMENT 123 TON
ITEM 208 CURING COAT 4,148 SQ.YD.
ITEM 208 CONTRACTOR DESIGNED CHEMICALLY STABILIZED SUBGRADE LUMP

CALCULATION:

CEMENT @ 59.4 LBS./S.Y.
4,148 S.Y. x 59.4 LBS. = 246,391 LBS. + 2000 = 123 TON

NOT for Construction of the Acceleration/Deceleration Lanes at S.R. 528

The following quantities shall be used to maintain S.R. 528 ramp traffic while constructing the outside phases. These items of work shall be used along with Standard Construction Drawings MT-98.10, MT 98.11 and MT-98.21.

The following quantities have been carried to the General Summary:

Item 614 - Work Zone Lane Line, Class I, 642 Paint, As Per Plan 0.30 Mile
Item 614 - Work Zone Edge Line, Class I, 642 Paint, As Per Plan 4.49 Mile
Item 614 - Work Zone Dotted Line, Class I, 642 Paint 5,560 Ft.
Item 614 - Work Zone Impact Attenuator (Unidirectional) Over 45 MPH, 24" Wide Hazard 10 Each
Item 614 - Barrier Reflector, Type B 226 Each
Item 614 - Object Marker, One Way 226 Each
Item 622 - Portable Concrete Barrier, "Y" Connector 4 Each
Item 622 - Portable Concrete Barrier, 32" 11,080 Ft.

Temporary Pavement Markings During Winter Shutdown

The following quantities shall be used to place temporary pavement markings on the I.R. 90 mainline and S.R. 528 ramps during the winter shutdown when traffic is shifted back to the original configuration.

The following quantities have been carried to the General Summary:

Item 614 - Work Zone Edge Line, Class I, 642 Paint, As Per Plan (White) 17.11 Mile
Item 614 - Work Zone Edge Line, Class I, 642 Paint, As Per Plan (Yellow) 16.93 Mile
Item 614 - Work Zone Lane Line, Class I, 642 Paint, As Per Plan 16.49 Mile
Item 614 - Work Zone Channelizing Line, Class I, 642 Paint 2,278 Ft.
Item 614 - Work Zone Stop Line, Class I, 642 Paint 90 Ft.

Work Zone Raised Pavement Markers

The following quantities shall be used to place Work Zone RPM's on the I.R. 90 mainline, S.R. 528 ramps, and crossovers in Phases 1-4. Work Zone RPM's shall be installed on lane shifts, crossovers, the mainline lane lines while in the contra flow scheme, and ramps per Plan Insert Sheets and Standard Construction Drawings referenced in this plan.

The following quantities have been carried to the General Summary:

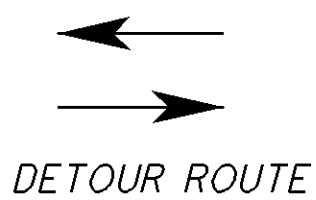
Item 614 - Work Zone Raised Pavement Marker (White) 2,209 Each
Item 614 - Work Zone Raised Pavement Marker (Yellow) 1,258 Each

S.R. 528 RAMP TRUCK TRAFFIC RESTRICTIONS

THE FOLLOWING DETOURS ON THIS SHEET AND SHEET 34 SHALL BE USED FOR TRUCK TRAFFIC ONLY. DURING CONSTRUCTION OF THE THROATS OF RAMP I, K AND L AT THE INTERSECTIONS WITH S.R. 528, TRUCK TRAFFIC WILL BE REQUIRED TO USE THE DESIGNATED DETOURS BETWEEN FRIDAY AT 6:00 PM TO MONDAY AT 6:00 AM.

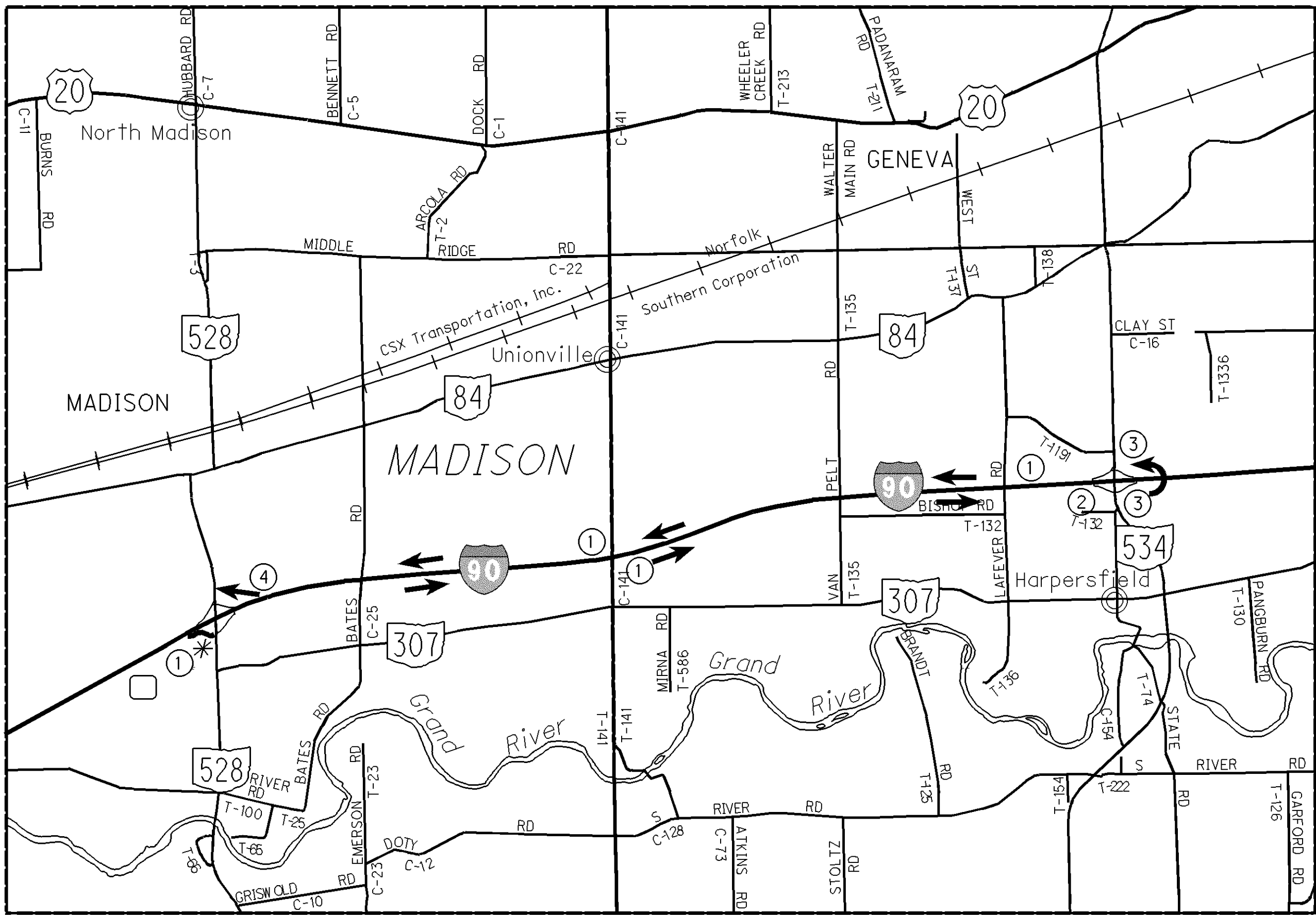
NOTE:
ALL DETOUR SIGNING SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
PAYMENT SHALL BE INCLUSIVE IN THE LUMP SUM BID FOR ITEM 614 DETOUR SIGNING.

NOTE:
ALL SIGNS SHALL BE TYPE "H" FLOURESCENT SHEETING.



MAINLINE I.R. 90 EASTBOUND EXIT RAMP (RAMP I)

DETOUR TO S.R. 534 EXIT, LOOP BACK VIA I.R. 90 WB



PORTABLE CHANGEABLE MESSAGE BOARD

1

DETOUR

528

↑

TRUCK

M4-8-24
M1-H5-30-3
M6-3-24
M4-4-24

2

DETOUR

528

↗

TRUCK

M4-8-24
M1-H5-30-3
M6-2R-24
M4-4-24

3

DETOUR

528

←

TRUCK

M4-8-24
M1-H5-30-3
M6-IL-24
M4-4-24

4

DETOUR

528

↗

TRUCK

M4-8-24
M1-H5-30-3
M6-2R-24
M4-4-24

MAINLINE I.R. 90 EASTBOUND ENTRANCE RAMP (RAMP L)

DETOUR SOUTH TO S.R. 307 EASTBOUND TO S.R. 534 NORTHBOUND TO I.R. 90

PORTABLE CHANGEABLE MESSAGE BOARD

1

DETOUR

EAST

INTERSTATE

90

↗

TRUCK

M4-8-24
M3-2-24
M1-I-30-2
M5-IR-21
M4-4-24

2

DETOUR

EAST

INTERSTATE

90

→

TRUCK

M4-8-24
M3-2-24
M1-I-30-2
M6-IR-21
M4-4-24

3

DETOUR

EAST

INTERSTATE

90

↑

TRUCK

M4-8-24
M3-2-24
M1-I-30-2
M6-3-21
M4-4-24

4

DETOUR

EAST

INTERSTATE

90

←

TRUCK

M4-8-24
M3-2-24
M1-I-30-2
M6-IL-21
M4-4-24

5

DETOUR

EAST

INTERSTATE

90

↗

TRUCK

M4-8-24
M3-2-24
M1-I-30-2
M6-2R-21
M4-4-24

6

DETOUR

EAST

INTERSTATE

90

↖

TRUCK

M4-8-24
M3-2-24
M1-I-30-2
M5-IL-21
M4-4-24

* LEO SHOULD BE PRESENT AT THE TOP OF THE RAMPS UNDER CONSTRUCTION TO FACILITATE TRAFFIC.

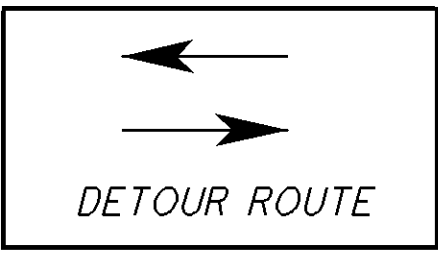
S.R. 528 RAMPS I & L TRUCK DETOURS

LAK-90-21.40
ATB-90-0.00

33
498

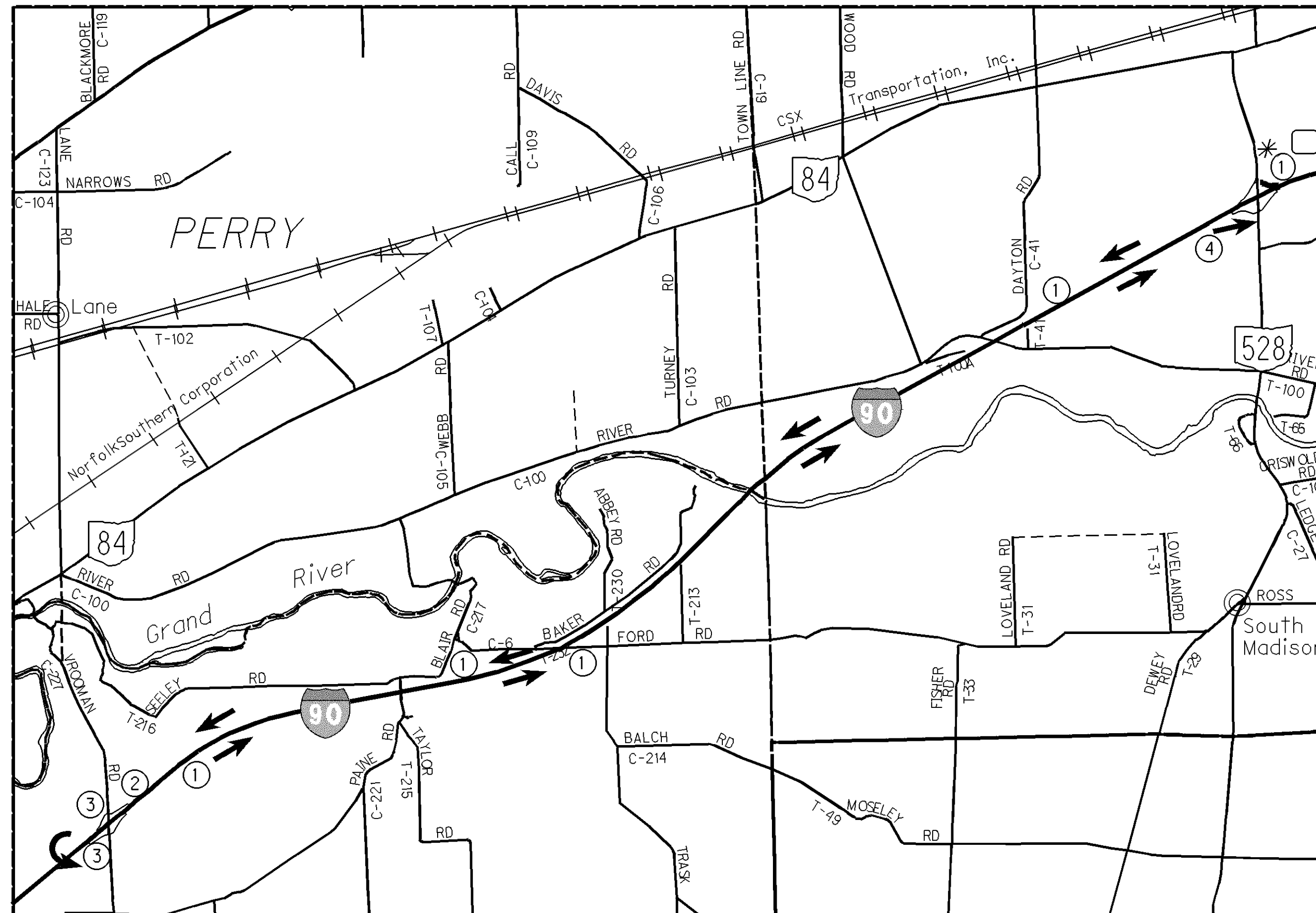
NOTE:
ALL DETOUR SIGNING SHALL BE FURNISHED, ERECTED,
MAINTAINED, AND REMOVED BY THE CONTRACTOR.
PAYMENT SHALL BE INCLUSIVE IN THE LUMP SUM BID
FOR ITEM 614 DETOUR SIGNING.

NOTE:
ALL SIGNS SHALL BE TYPE "H" FLOURESCENT SHEETING.



MAINLINE I.R. 90 WESTBOUND EXIT RAMP (RAMP K)

DETOUR TO VROOMAN RD. EXIT, LOOP BACK VIA I.R. 90 EB

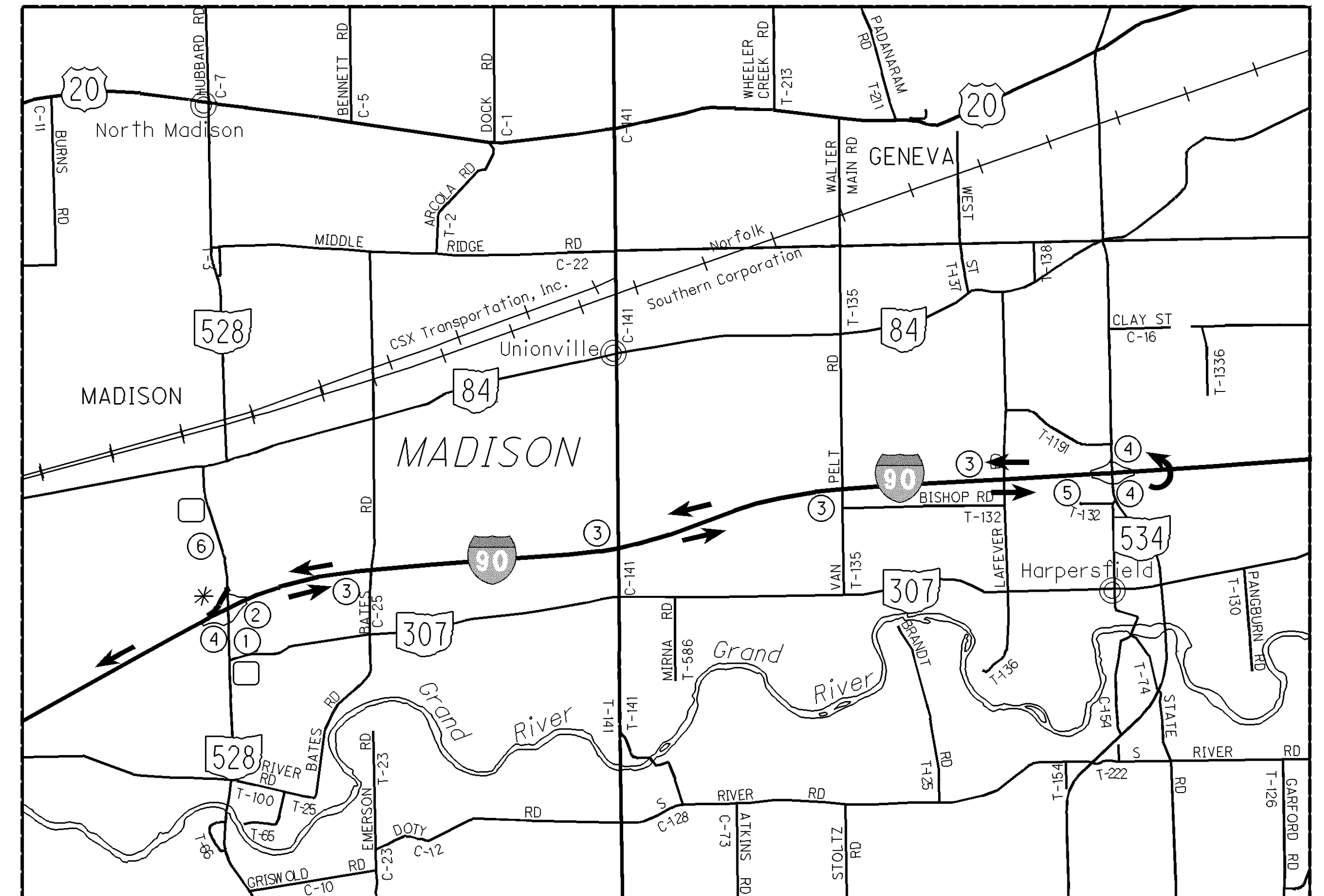


PORTABLE CHANGEABLE
MESSAGE BOARD

①	②	③	④
DETOUR	DETOUR	DETOUR	DETOUR
528	528	528	528
↑	↗	←	↗
TRUCK	TRUCK	TRUCK	TRUCK
M4-8-24 M1-H5-30-3 M6-3-24 M4-4-24	M4-8-24 M1-H5-30-3 M6-2R-24 M4-4-24	M4-8-24 M1-H5-30-3 M6-1L-24 M4-4-24	M4-8-24 M1-H5-30-3 M6-2R-24 M4-4-24

MAINLINE I.R. 90 WESTBOUND ENTRANCE RAMP (RAMP J)

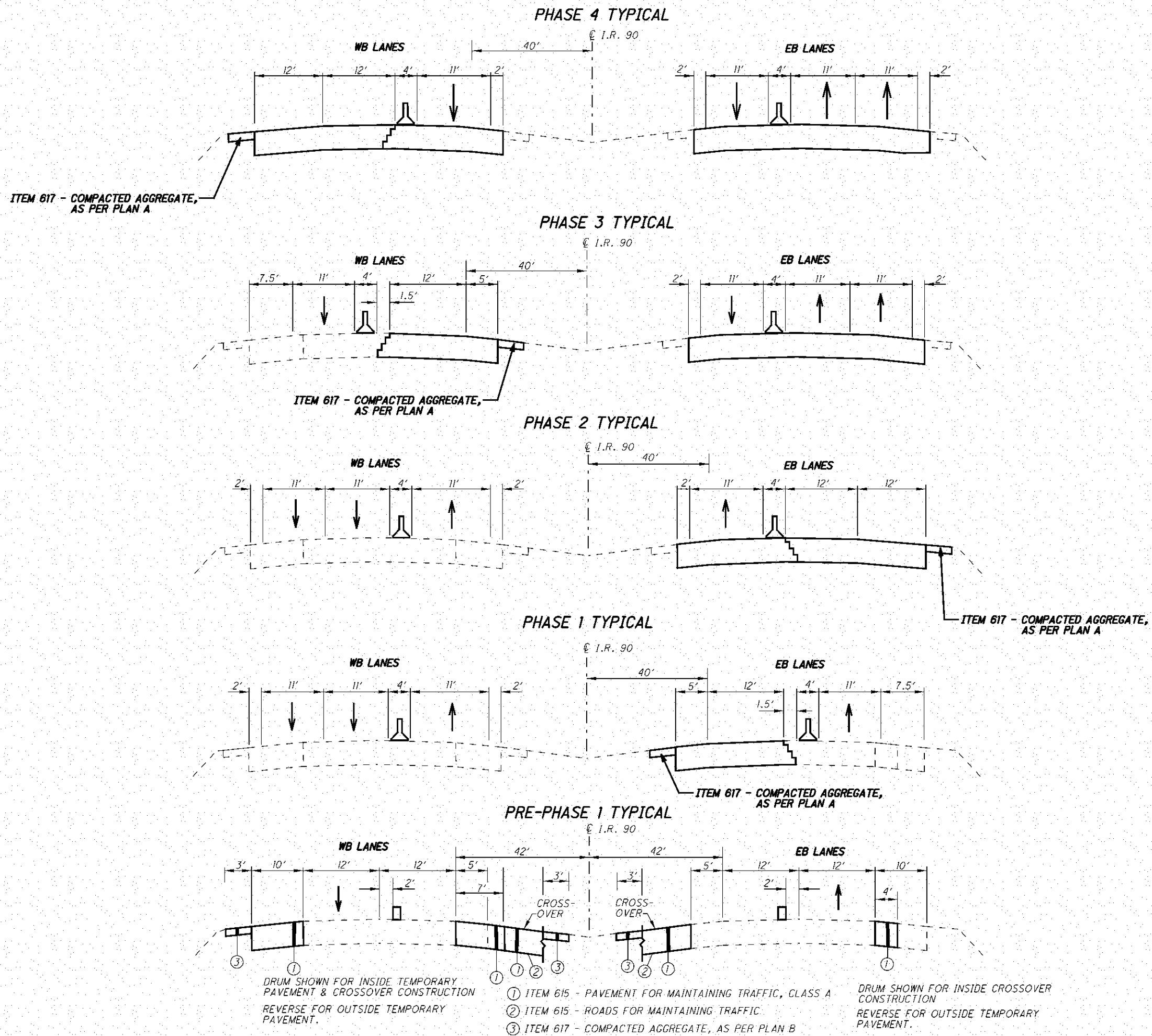
DETOUR TO I.R. 90 EB TO S.R. 534, LOOP BACK VIA I.R. 90 WB

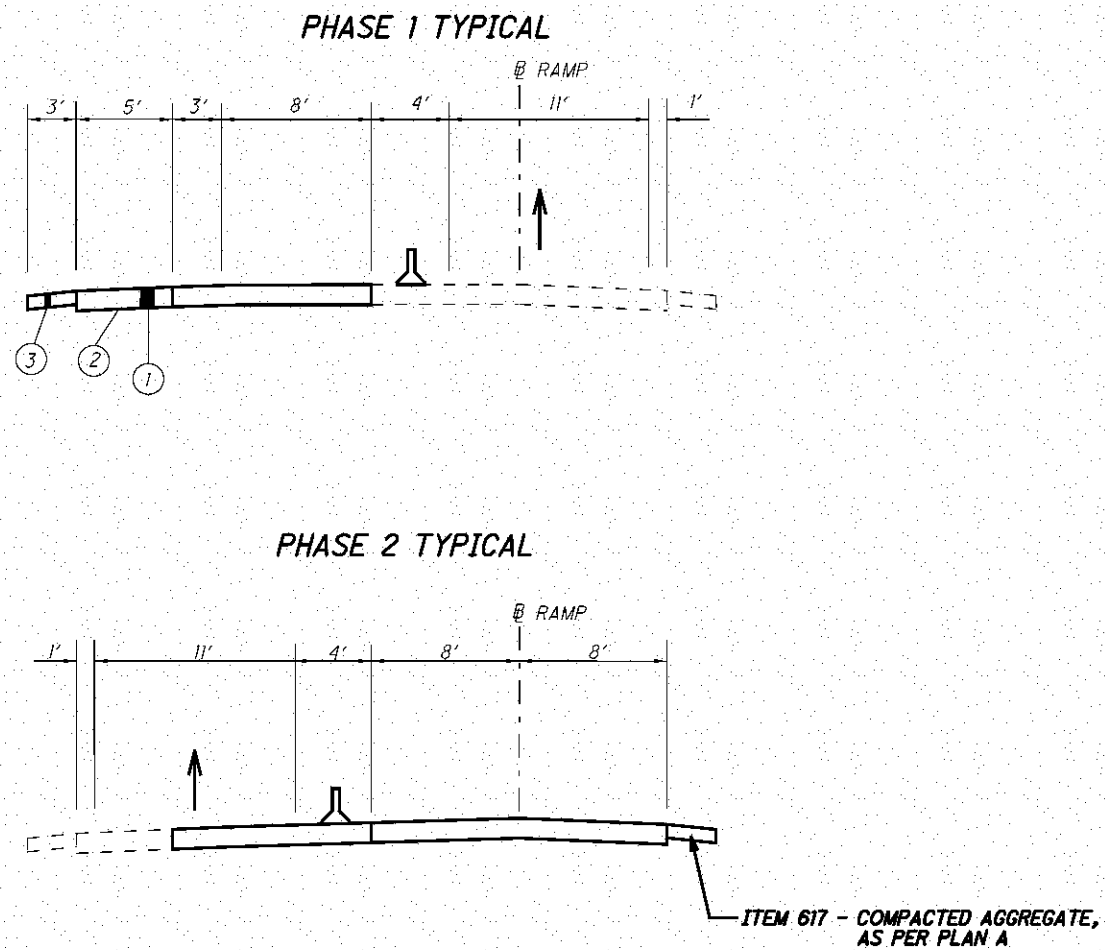


PORTABLE CHANGEABLE
MESSAGE BOARD

①	②	③	④	⑤	⑥
DETOUR	DETOUR	DETOUR	DETOUR	DETOUR	DETOUR
WEST	WEST	WEST	WEST	WEST	WEST
INTERSTATE	INTERSTATE	INTERSTATE	INTERSTATE	INTERSTATE	INTERSTATE
90	90	90	90	90	90
↗	→	↑	←	↗	↖
TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK
M4-8-24 M3-4-24 M1-1-30-2 M5-1R-21 M4-4-24	M4-8-24 M3-4-24 M1-1-30-2 M6-1R-21 M4-4-24	M4-8-24 M3-4-24 M1-1-30-2 M6-3-21 M4-4-24	M4-8-24 M3-4-24 M1-1-30-2 M6-1L-21 M4-4-24	M4-8-24 M3-4-24 M1-1-30-2 M6-2R-21 M4-4-24	M4-8-24 M3-4-24 M1-1-30-2 M5-1L-21 M4-4-24

* LEO SHOULD BE PRESENT AT THE TOP OF
THE RAMPS UNDER CONSTRUCTION
TO FACILITATE TRAFFIC.





- ① ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A
- ② ITEM 615 - ROADS FOR MAINTAINING TRAFFIC
- ③ ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN B

SEE SHEETS 40 & 41 FOR TEMPORARY CROSSOVER 1 & 2 PROFILES

NOTE:
INSTALL TEMPORARY CROSSOVER LIGHTING SYSTEM AS PER SCD MT-100.

DUE TO THE "REVISED SEQUENCE OF CONSTRUCTION" AS DESCRIBED IN THE NOTE ON SHEET 28, THE TEMPORARY PAVEMENT SHALL BE BUILT ADJACENT TO THE EB LANES AS OPPOSED TO THE WB LANES AS SHOWN ON THIS SHEET.

BEGIN ITEM 615 TEMPORARY PAVEMENT, CLASS A STA. 715+00.00 WB 10' WIDE LT.

BEGIN ITEM 615 TEMPORARY PAVEMENT, CLASS A STA. 715+00.00 EB 10' WIDE RT.

PC & TEMPORARY CROSSOVER 1 STA. 0+00.00 = & SURVEY & CONSTRUCTION I.R. 90 STA. 716+26.21, 41.5' LT.

PC & TEMPORARY CROSSOVER 2 STA. 0+00.00 = & SURVEY & CONSTRUCTION I.R. 90 STA. 716+26.21, 42.0' RT.

& TEMPORARY CROSSOVER 1
P.I. = Sta. 2+14.82
D = 12°50' (LT)
Dc = 3°0'
R = 1,910'
L = 427.84'

& TEMPORARY CROSSOVER 2
P.I. = Sta. 6+29.91
D = 12°05' (LT)
Dc = 3°0'
R = 1,910'
L = 402.64'

MAINTAIN TRAFFIC FOR WB LANES AS PER SCD MT-95.30 AND/OR MT-102.20 DURING PERMITTED LANE CLOSURES WHILE CONSTRUCTING THIS PORTION OF THE TEMPORARY MEDIAN CROSSOVERS AND THE NECESSARY 2 FEET OF TEMPORARY PAVEMENT FOR MAINTAINING TRAFFIC.

MAINTAIN TRAFFIC FOR EB LANES AS PER SCD MT-95.30 AND/OR MT-102.20 DURING PERMITTED LANE CLOSURES WHILE CONSTRUCTING THIS PORTION OF THE TEMPORARY MEDIAN CROSSOVERS.

& TEMPORARY CROSSOVER 2
P.I. = Sta. 2+14.82
D = 12°50' (RT)
Dc = 3°0'
R = 1,910'
L = 427.84'

& TEMPORARY CROSSOVER 1
P.I. = Sta. 6+29.91
D = 12°05' (RT)
Dc = 3°0'
R = 1,910'
L = 402.64'

BEGIN ITEM 615 TEMPORARY PAVEMENT, CLASS A STA. 724+50.15 WB 7' WIDE RT.

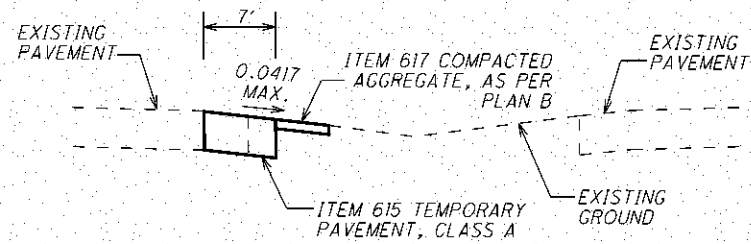
PT & TEMPORARY CROSSOVER 2 STA. 8+30.48 = & SURVEY & CONSTRUCTION I.R. 90 STA. 724+50.15, 48.0' LT.

PT & TEMPORARY CROSSOVER 1 STA. 8+30.48 = & SURVEY & CONSTRUCTION I.R. 90 STA. 724+50.15, 48.5' RT.

END ITEM 615 TEMPORARY PAVEMENT, CLASS A STA. 724+50.15 EB 10' WIDE RT.

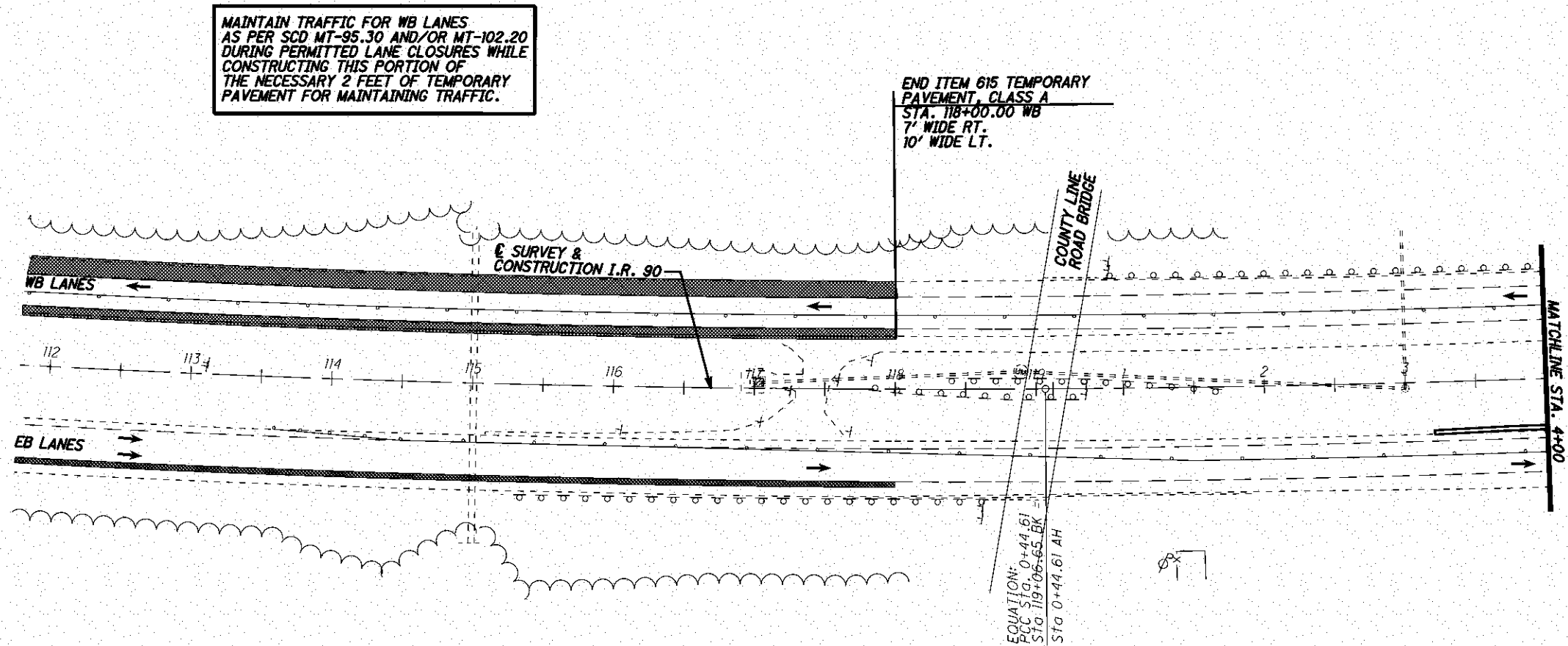
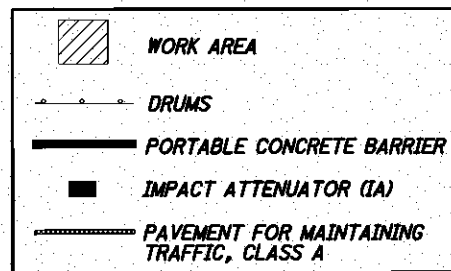
300' OF 30" TYPE A CONDUIT TO BE PAID FOR UNDER ITEM 615 ROADS FOR MAINTAINING TRAFFIC

TEMPORARY PAVEMENT DETAIL



Legend:

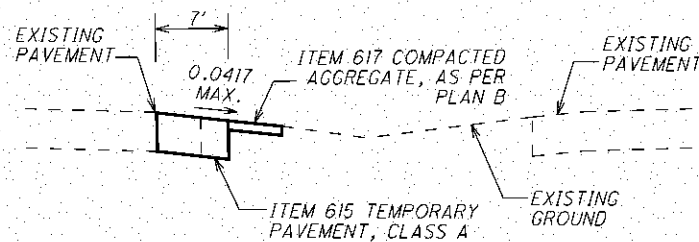
- WORK AREA
- DRUMS
- PORTABLE CONCRETE BARRIER
- IMPACT ATTENUATOR (IA)
- PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A



MAINTAIN TRAFFIC FOR WB LANES AS PER SCD MT-95.30 AND/OR MT-102.20 DURING PERMITTED LANE CLOSURES WHILE CONSTRUCTING THIS PORTION OF THE NECESSARY 2 FEET OF TEMPORARY PAVEMENT FOR MAINTAINING TRAFFIC.

MAINTAIN TRAFFIC FOR WB LANES AS PER SCD MT-95.30 AND/OR MT-102.20 DURING PERMITTED LANE CLOSURES WHILE CONSTRUCTING THIS PORTION OF THE TEMPORARY MEDIAN CROSSOVERS.

TEMPORARY PAVEMENT DETAIL



DUE TO THE "REVISED SEQUENCE OF CONSTRUCTION" AS DESCRIBED IN THE NOTE ON SHEET 28, THE TEMPORARY PAVEMENT SHALL BE BUILT ADJACENT TO THE EB LANES AS OPPOSED TO THE WB LANES AS SHOWN ON THIS SHEET.

WORK AREA

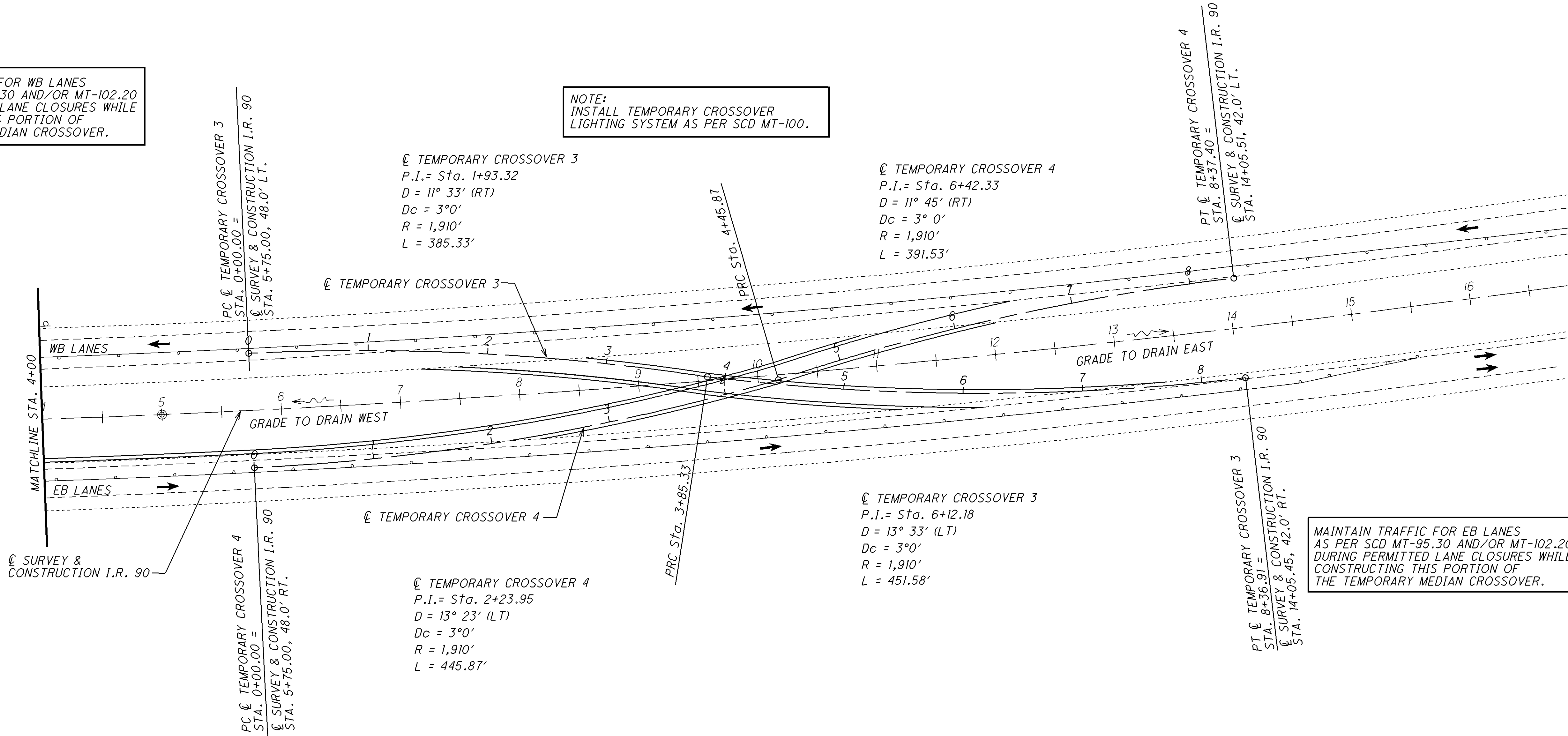
DRUMS

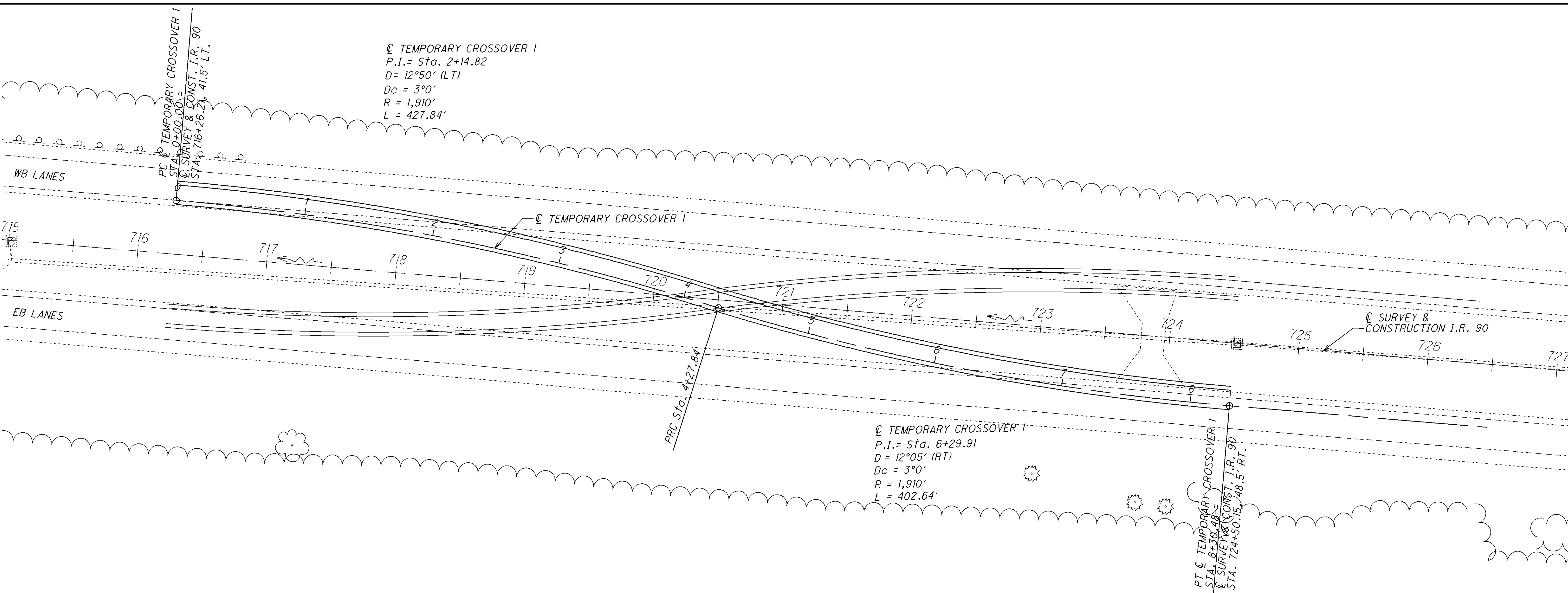
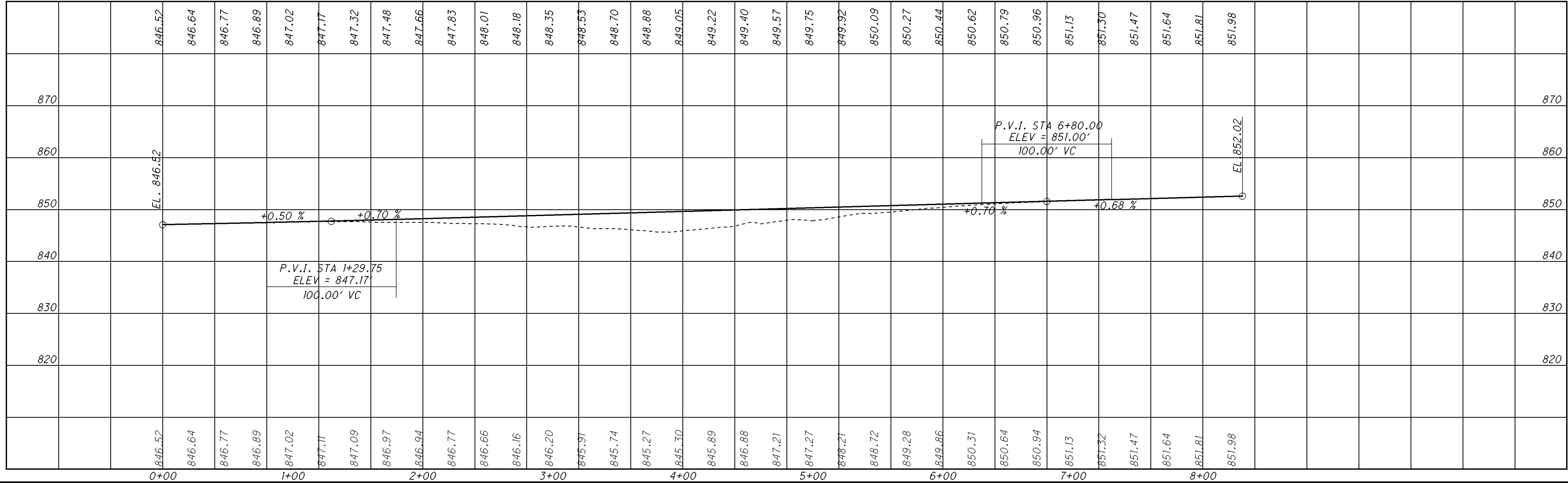
PORTABLE CONCRETE BARRIER

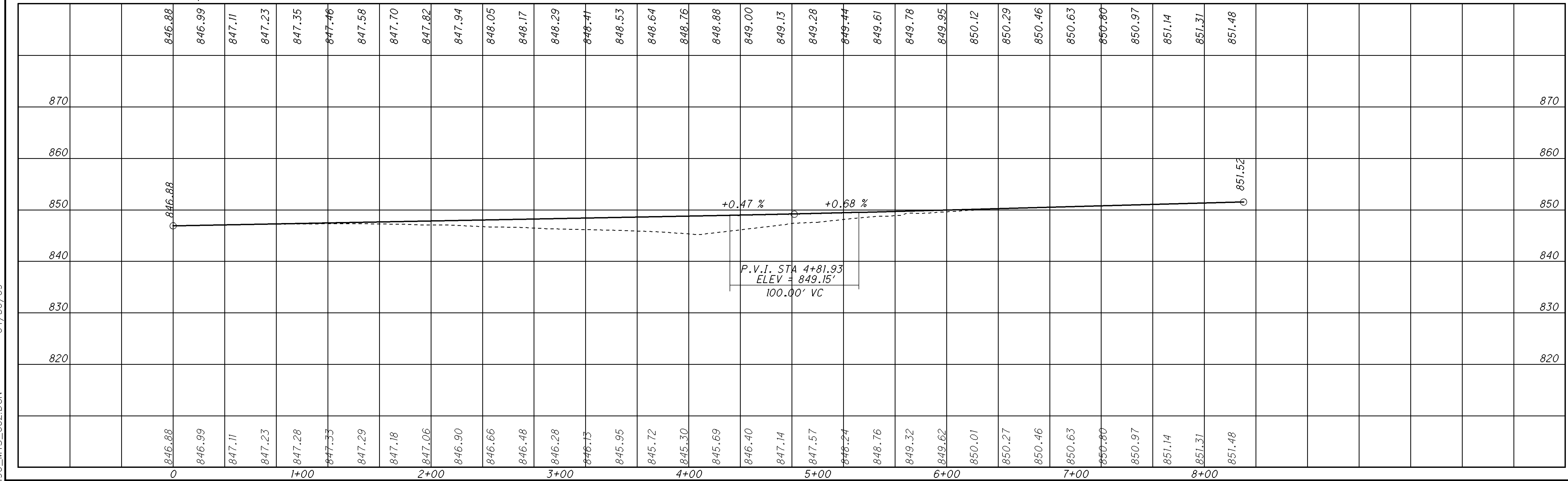
IMPACT ATTENUATOR (IA)

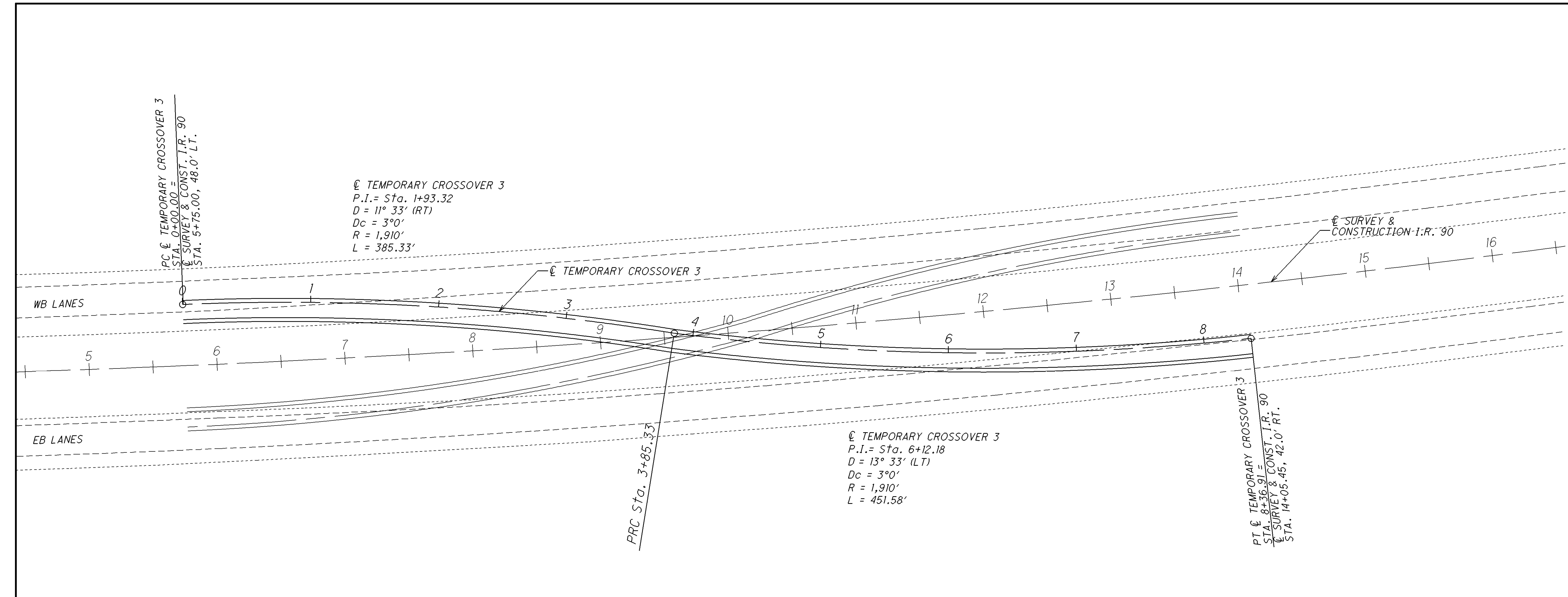
PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

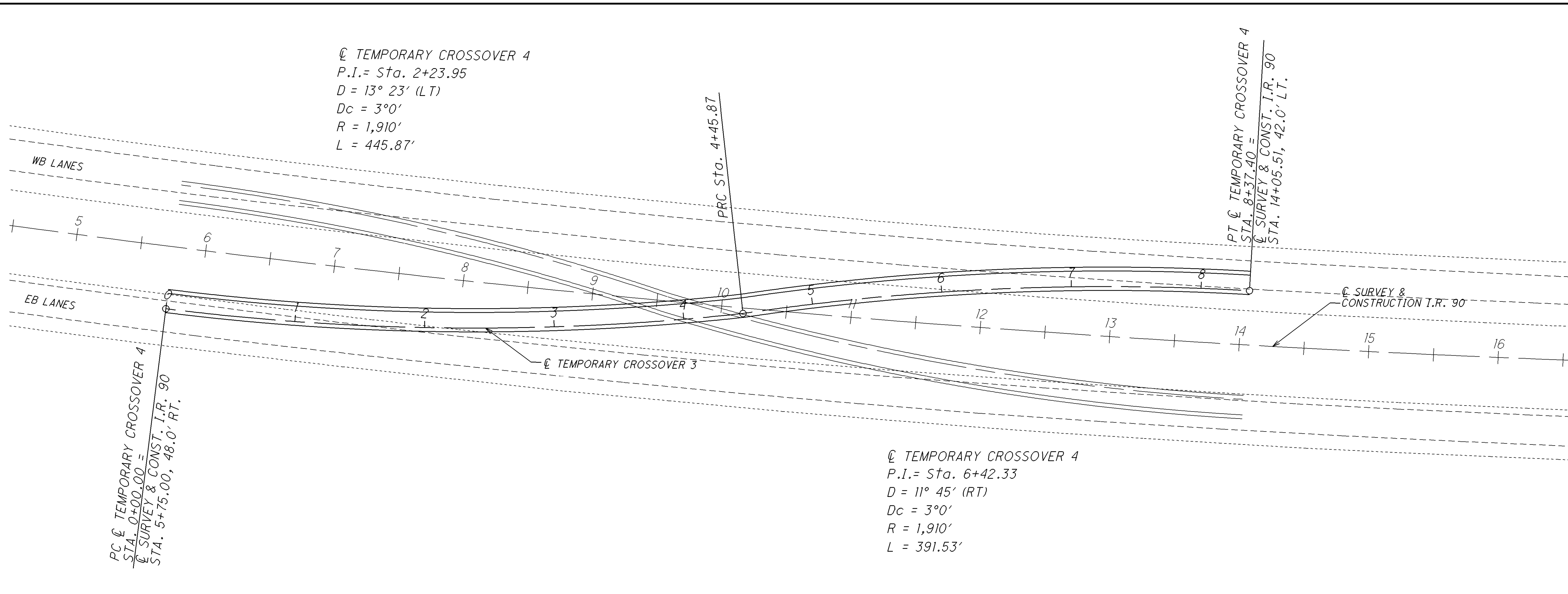
MAINTAIN TRAFFIC FOR WB LANES AS PER SCD MT-95.30 AND/OR MT-102.20 DURING PERMITTED LANE CLOSURES WHILE CONSTRUCTING THIS PORTION OF THE TEMPORARY MEDIAN CROSSOVER.



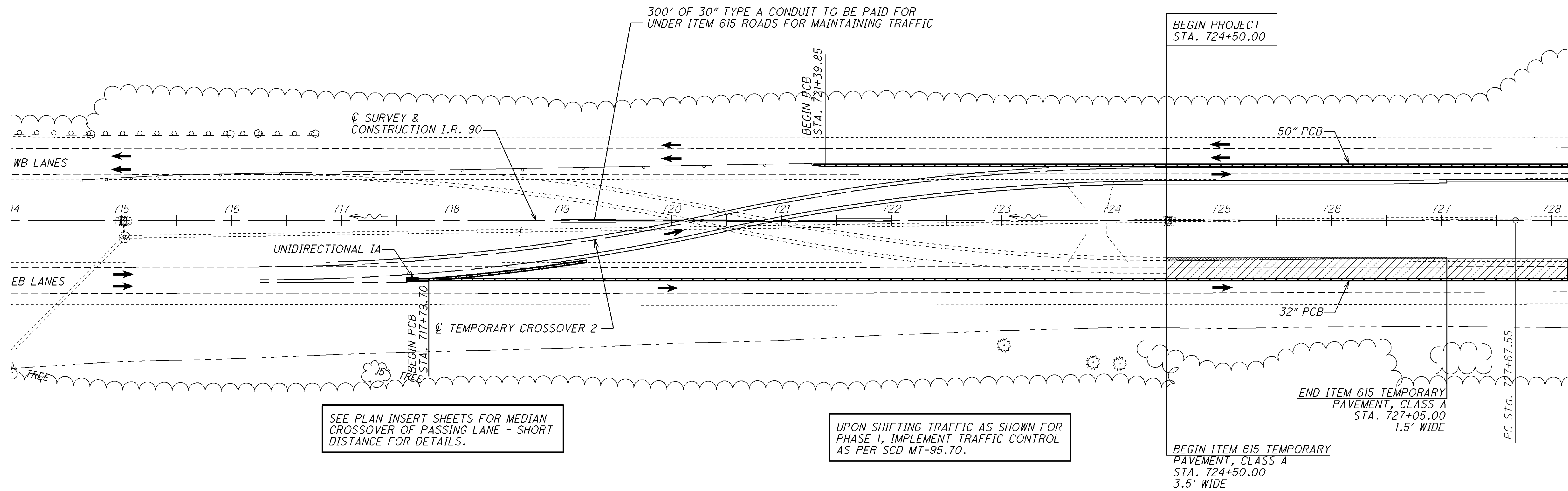
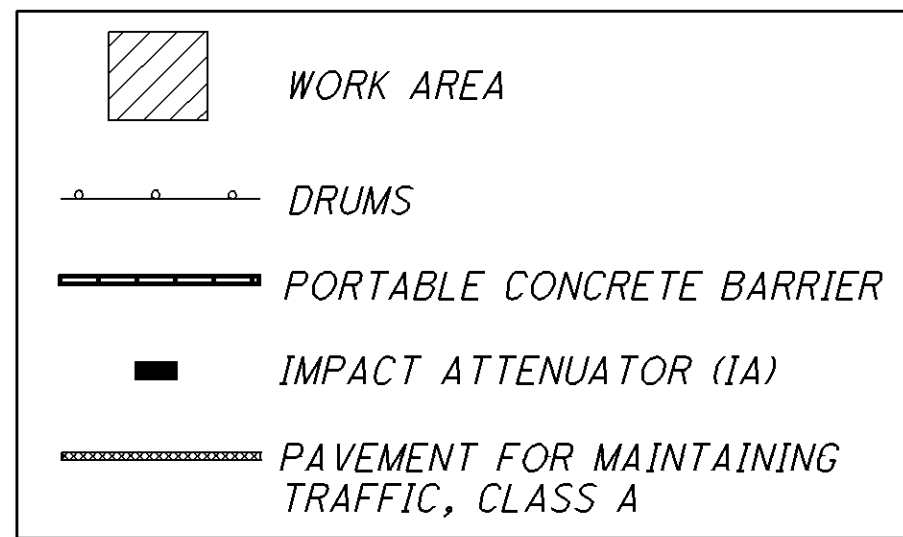








I90_MOT_001Begin.dgn 02/24/09



190_MOT_001End02.dgn 02/23/09

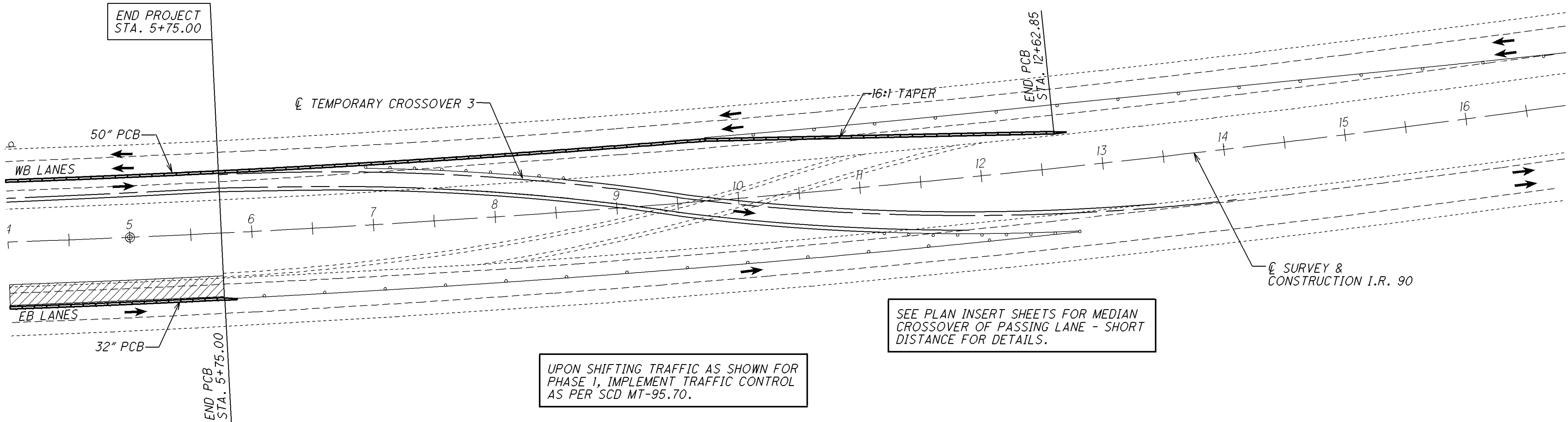
WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR (IA)

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A



190_MOT_002Begin.dgn 02/23/09

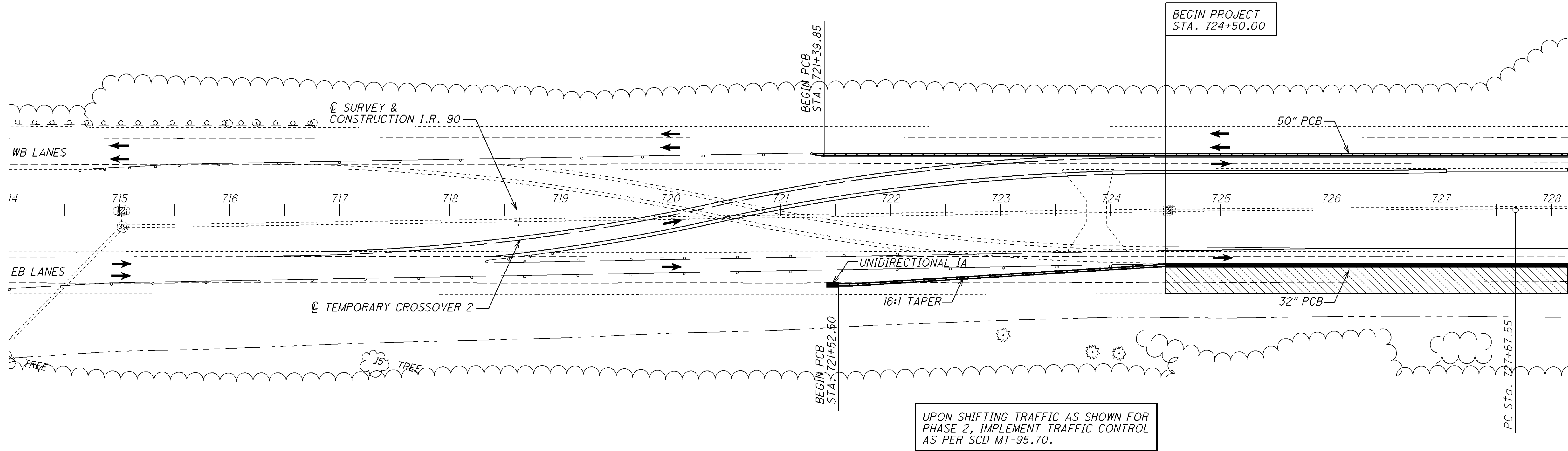
WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR (IA)

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A



UPON SHIFTING TRAFFIC AS SHOWN FOR
PHASE 2, IMPLEMENT TRAFFIC CONTROL
AS PER SCD MT-95.70.

PC Sta. 727+67.55

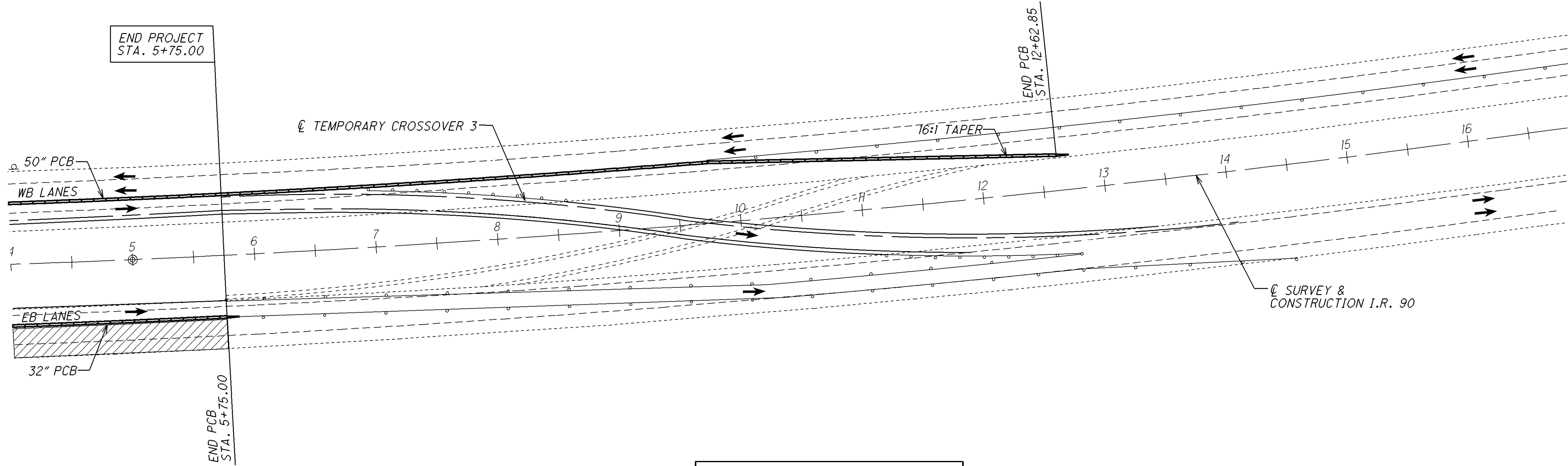
WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

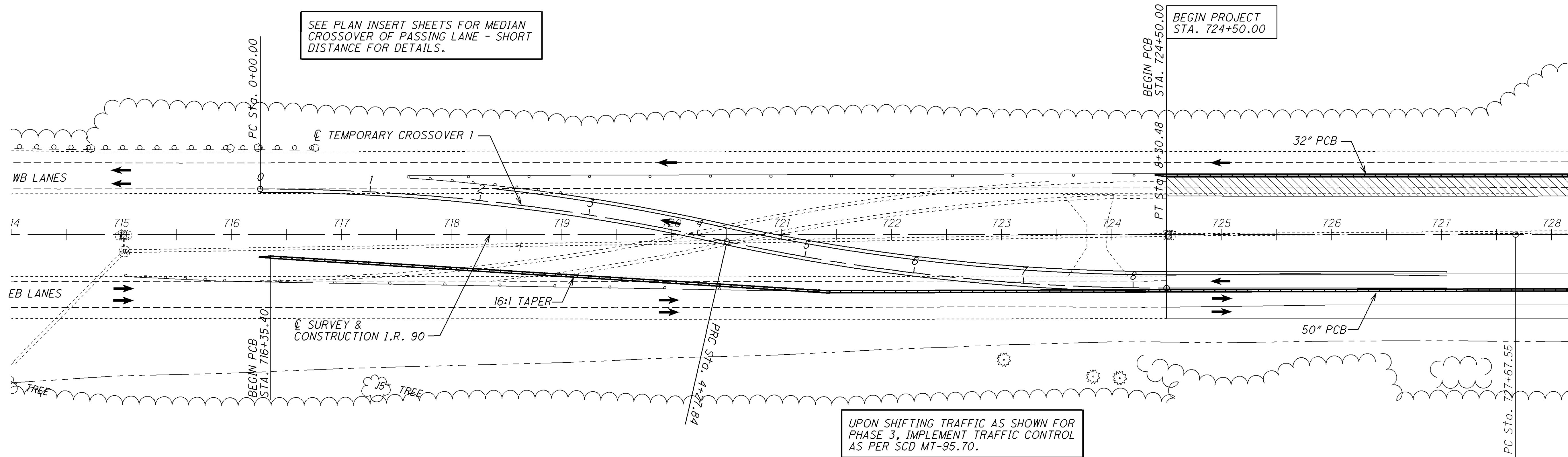
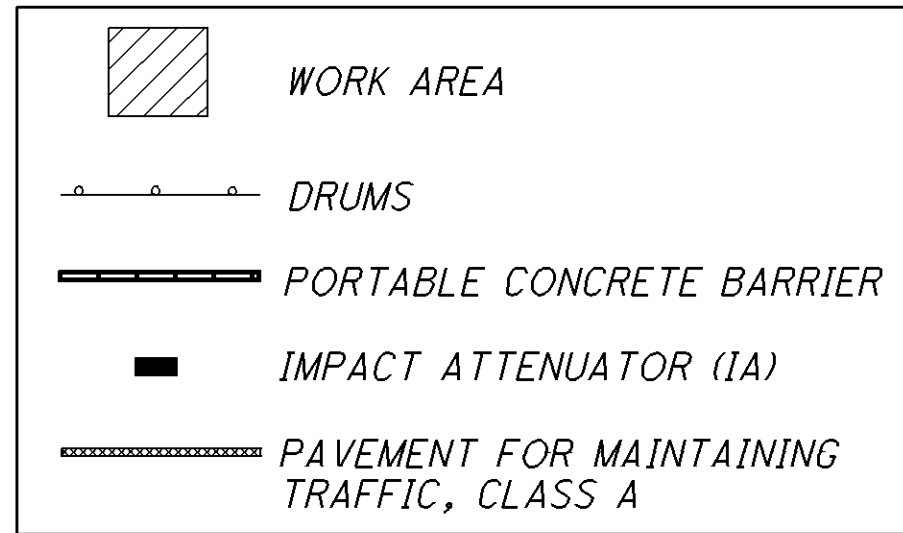
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PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

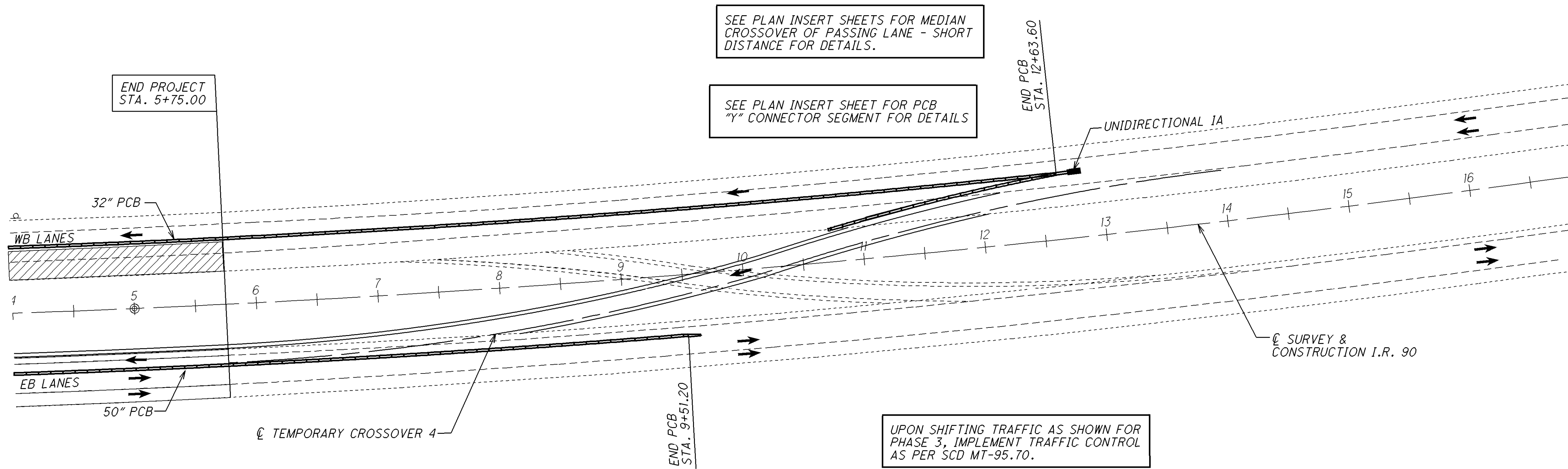
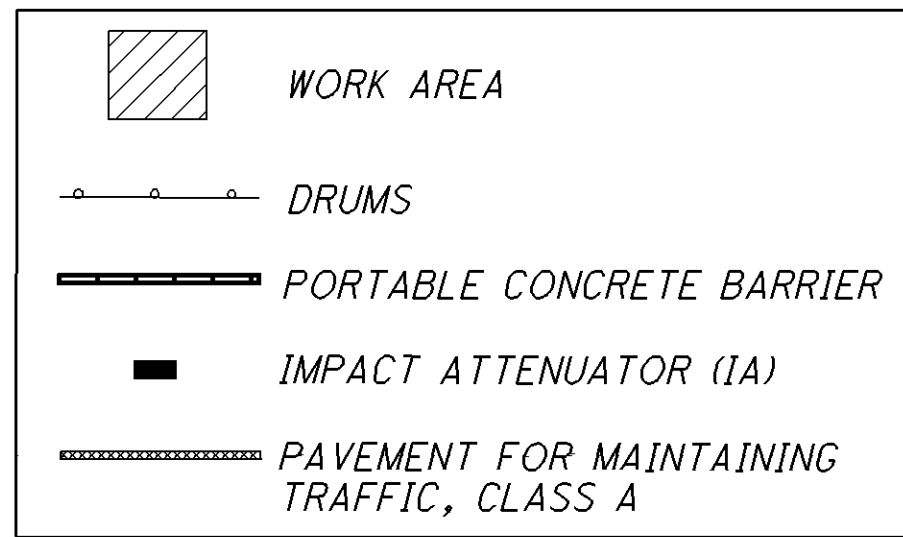


UPON SHIFTING TRAFFIC AS SHOWN FOR PHASE 2, IMPLEMENT TRAFFIC CONTROL AS PER SCD MT-95.70.

I90_MOT_003Begin.dgn 02/23/09



190_MOT_003End02.dgn 02/24/09



I90_MOT_004Begin.dgn 02/23/09

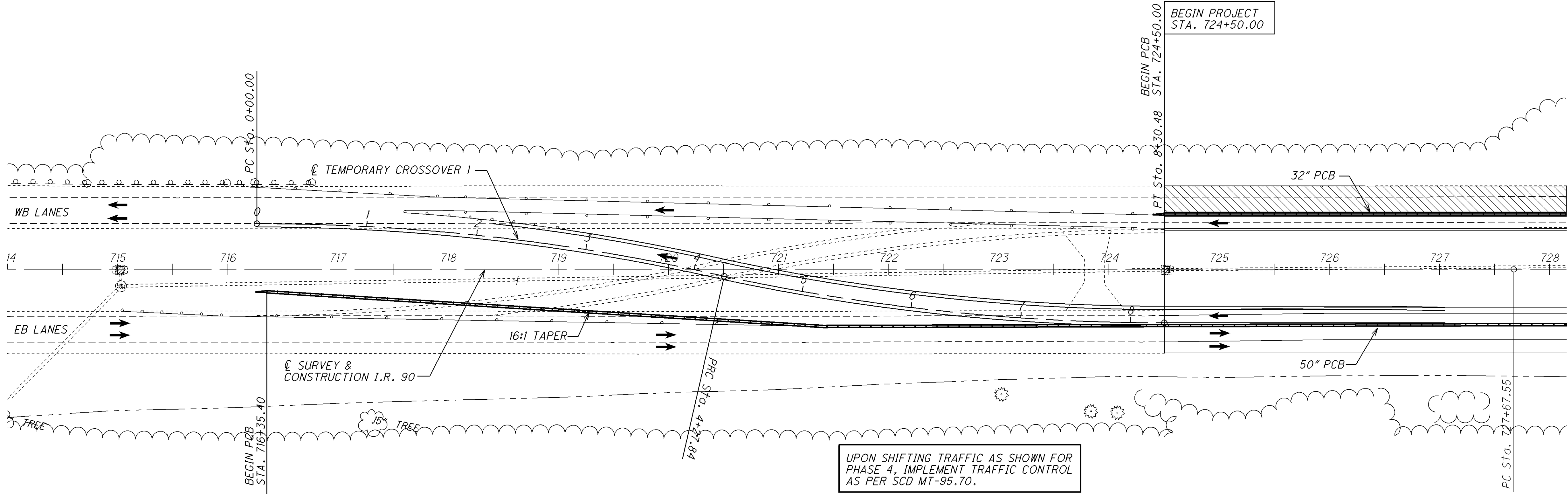
WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR (IA)

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A



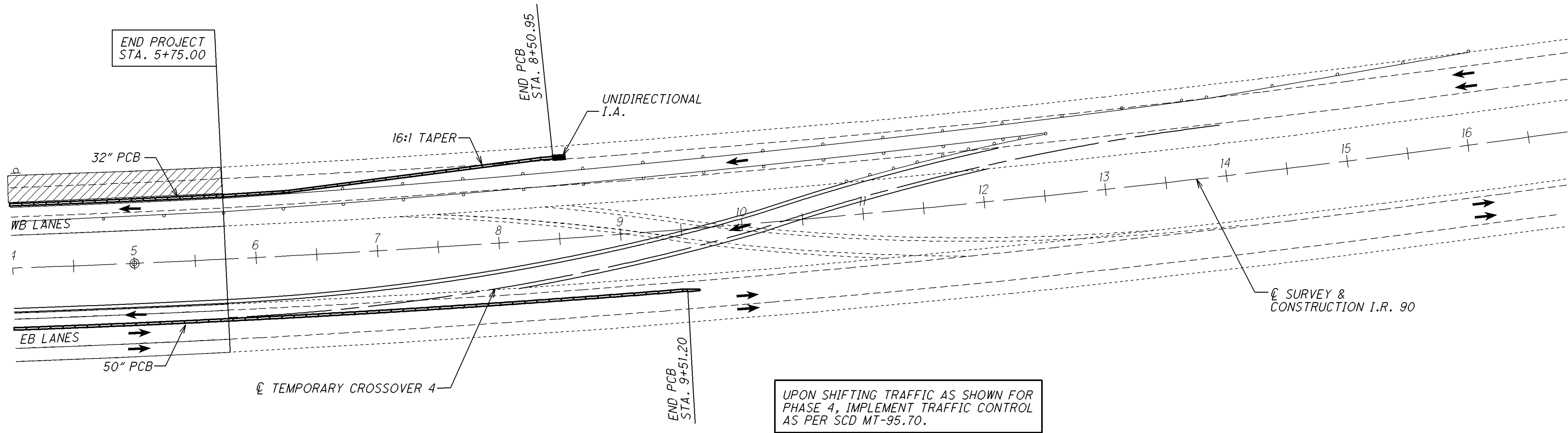
WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A



WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR (IA)

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

UPON SHIFTING TRAFFIC AS SHOWN FOR PHASE I, IMPLEMENT TRAFFIC CONTROL AS PER SCD MT-98.28.

SEE PLAN INSERT SHEET FOR PCB "Y" CONNECTOR SEGMENT DETAILS.

BEGIN ITEM 615 TEMPORARY PAVEMENT, CLASS A STA. 4+97.50 5' WIDE

SEE SHEET 33 FOR TRUCK TRAFFIC RESTRICTIONS AND DETOUR DURING THE S.R. 528 & RAMP I THROAT CONSTRUCTION.

END ITEM 615 TEMPORARY PAVEMENT, CLASS A STA. 12+44.40 5' WIDE

END PCB 11+50.00

END PCB STA. 1040+56.60

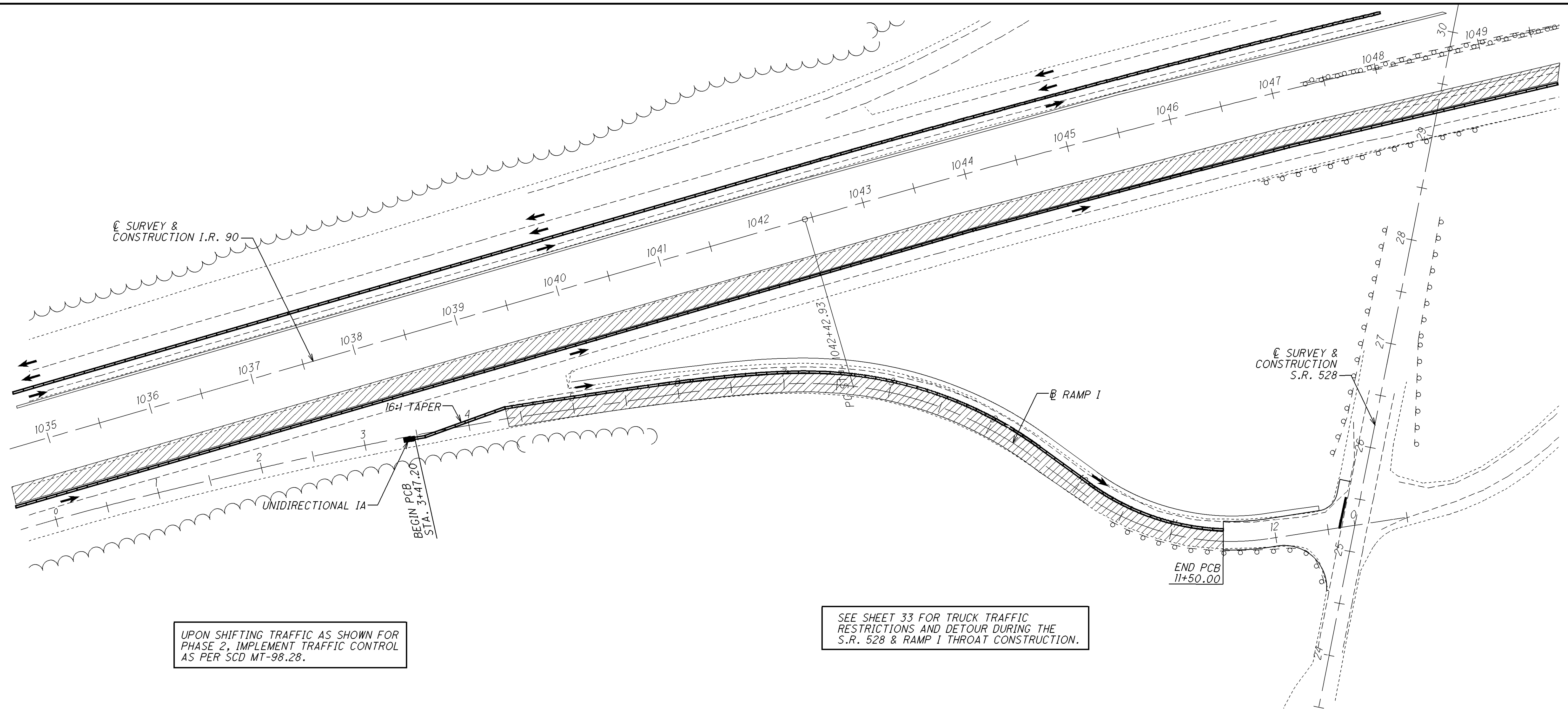
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○

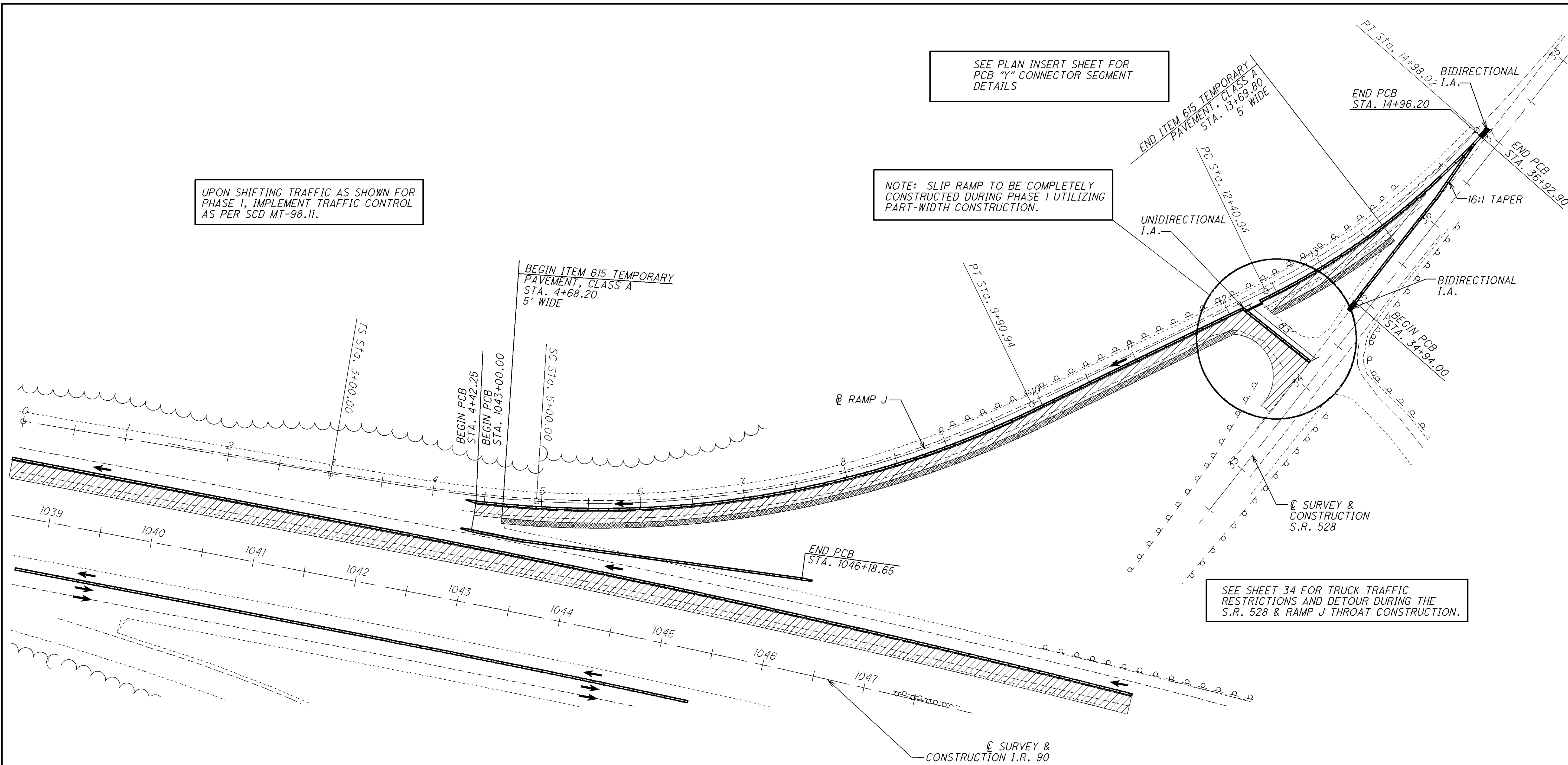
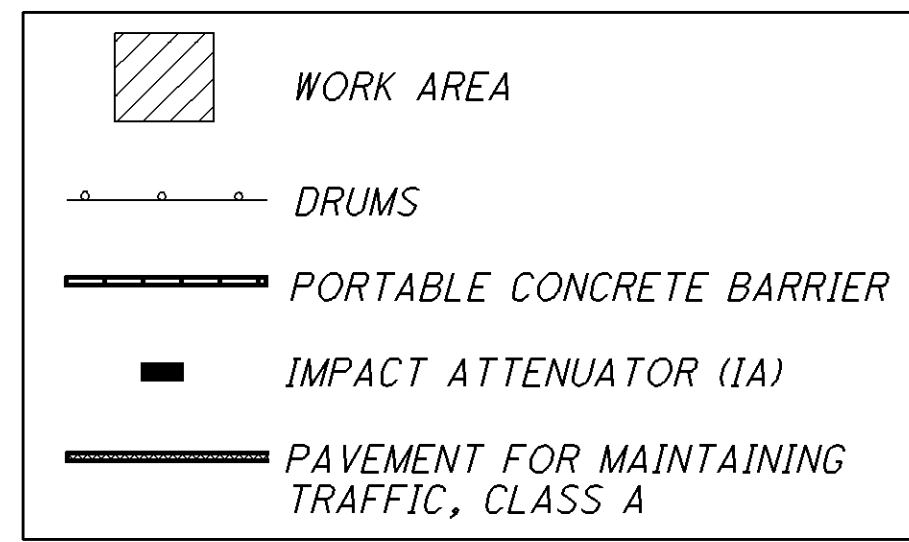
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○

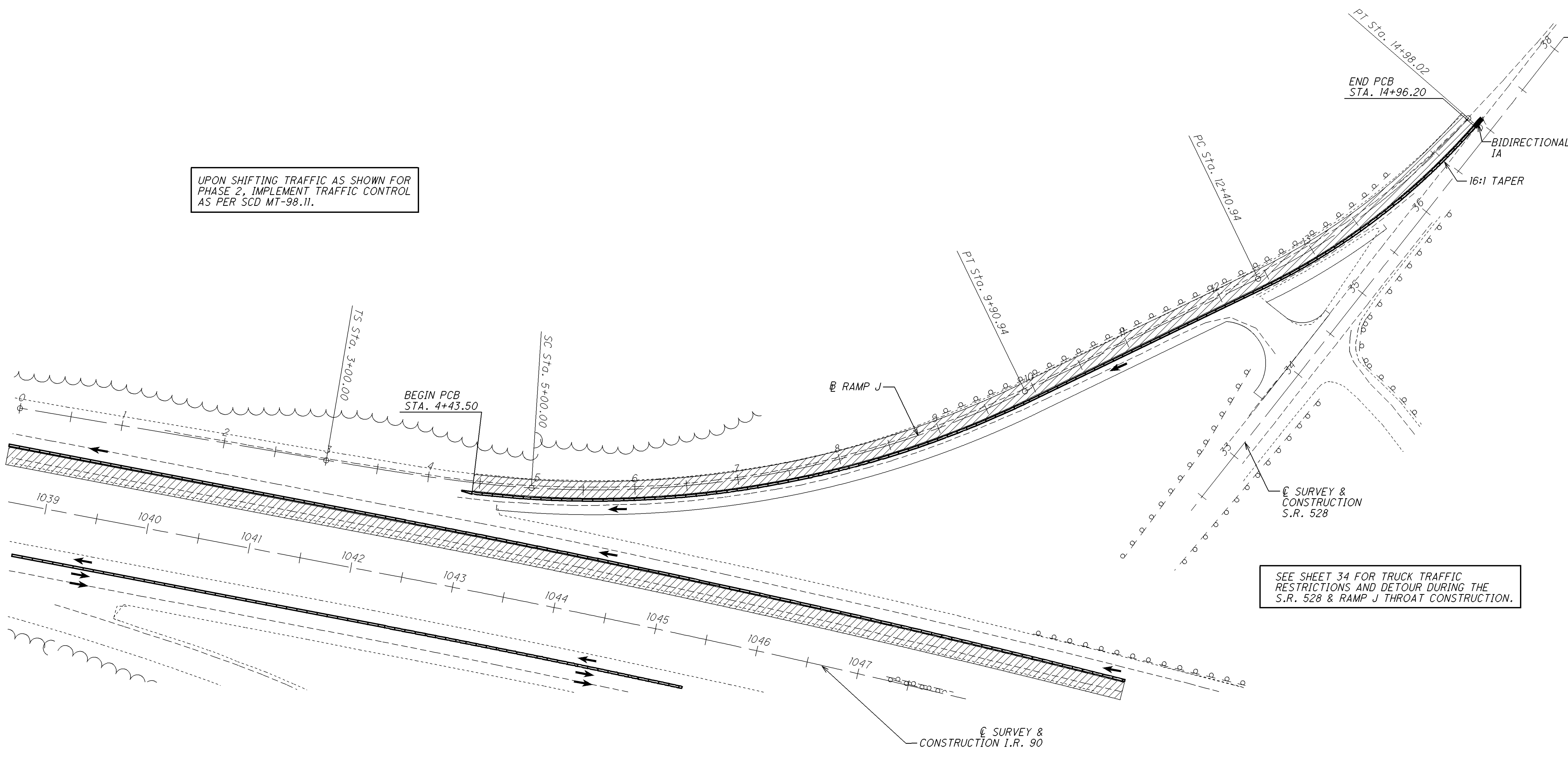
Ramp1_M01_002.dgn 03/02/09



RampJ_MOT_001.dgn 03/04/09



RampJ_MOT_002.dgn 03/04/09

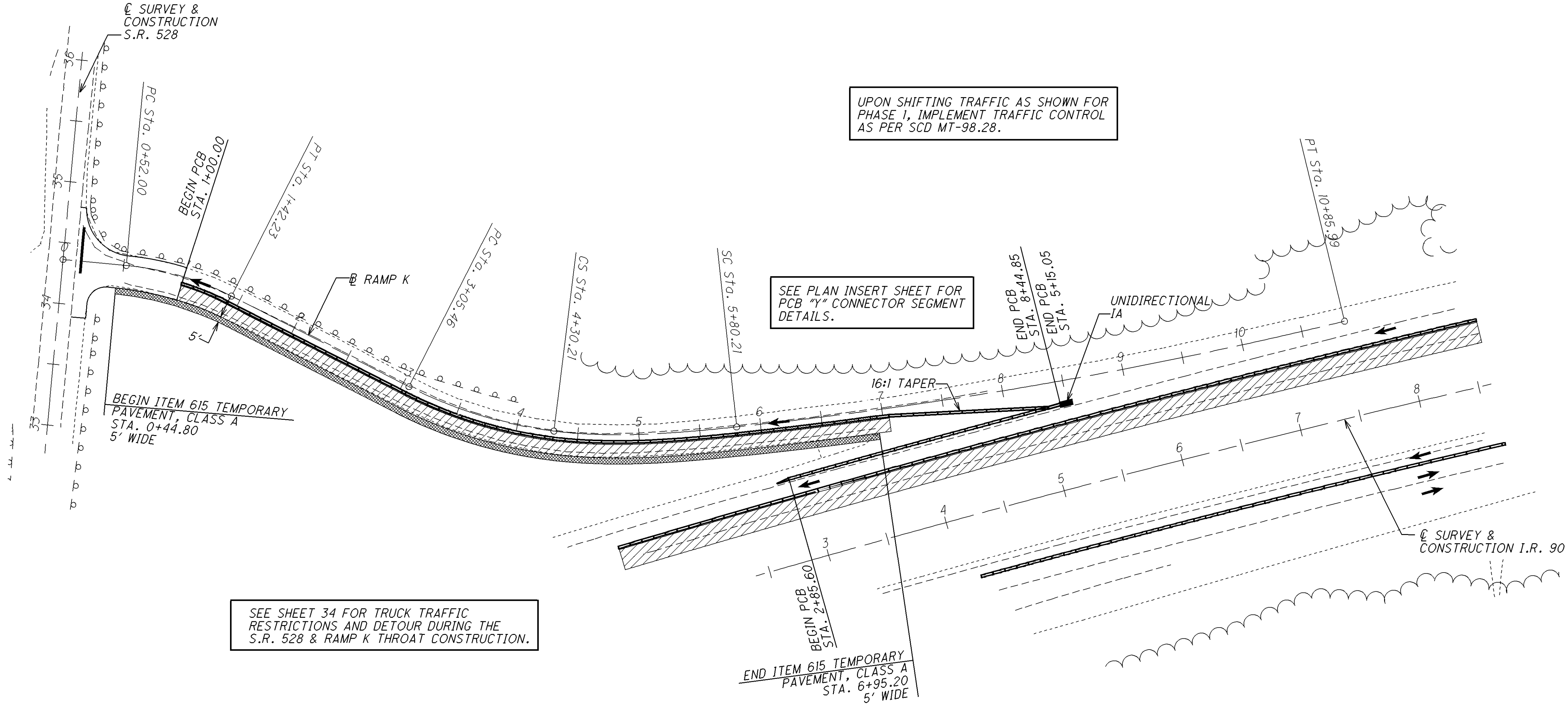
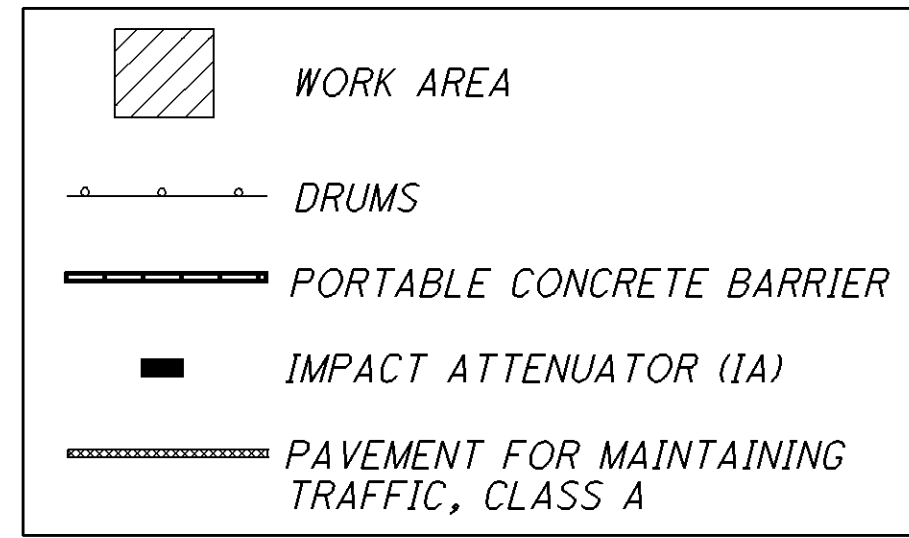


	WORK AREA
	DRUMS
	PORTABLE CONCRETE BARRIER
	IMPACT ATTENUATOR (IA)
	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

UPON SHIFTING TRAFFIC AS SHOWN FOR PHASE 2, IMPLEMENT TRAFFIC CONTROL AS PER SCD MT-98.II.

SEE SHEET 34 FOR TRUCK TRAFFIC RESTRICTIONS AND DETOUR DURING THE S.R. 528 & RAMP J THROAT CONSTRUCTION.

		HORIZONTAL SCALE IN FEET	
		CALCULATED H.G.	CHECKED J.C.
RAMP J MAINTENANCE OF TRAFFIC PLAN SHEET			
PHASE 2			
LAK-90-21.40			
ATB-90-0.00			



WORK AREA

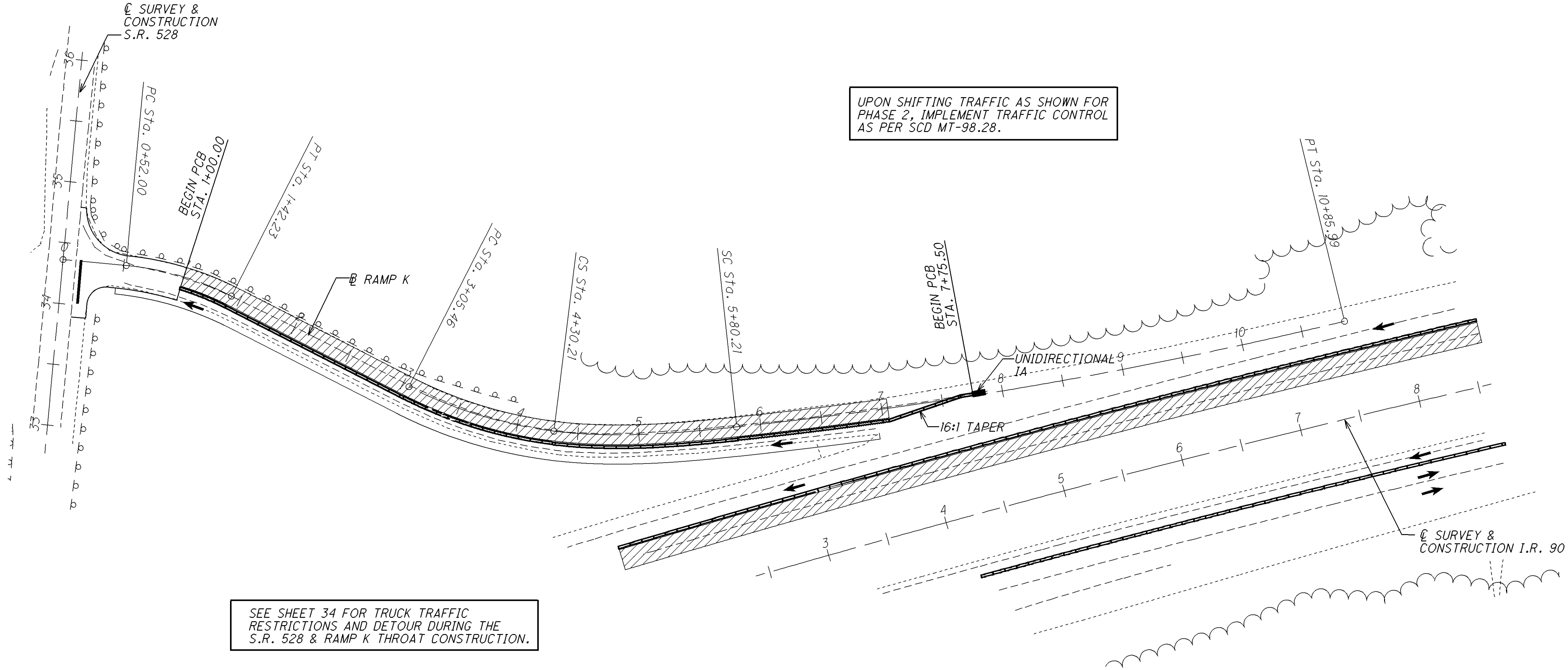
DRUMS

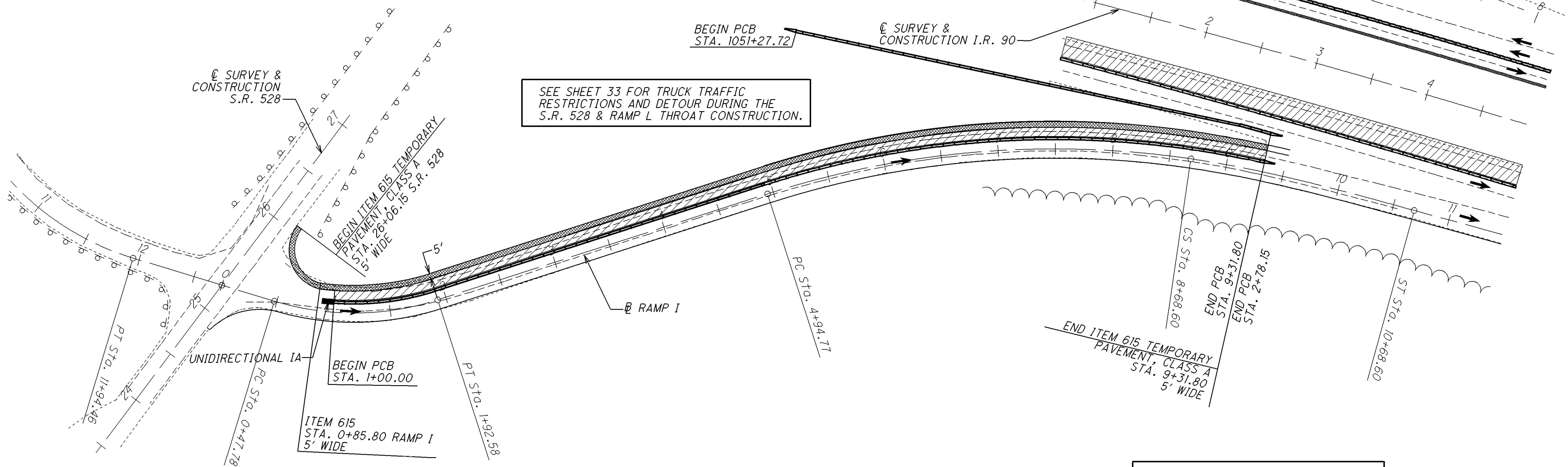
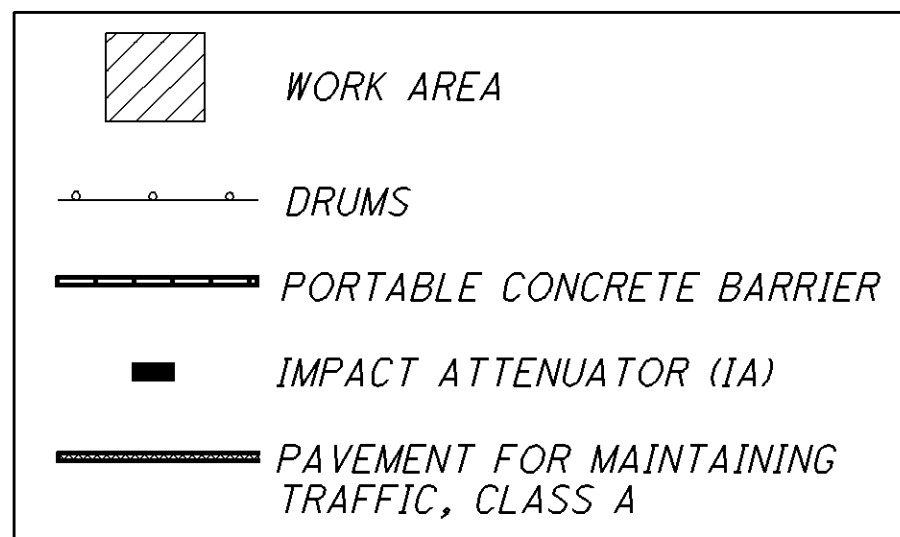
PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR (IA)

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

SEE SHEET 34 FOR TRUCK TRAFFIC RESTRICTIONS AND DETOUR DURING THE S.R. 528 & RAMP K THROAT CONSTRUCTION.





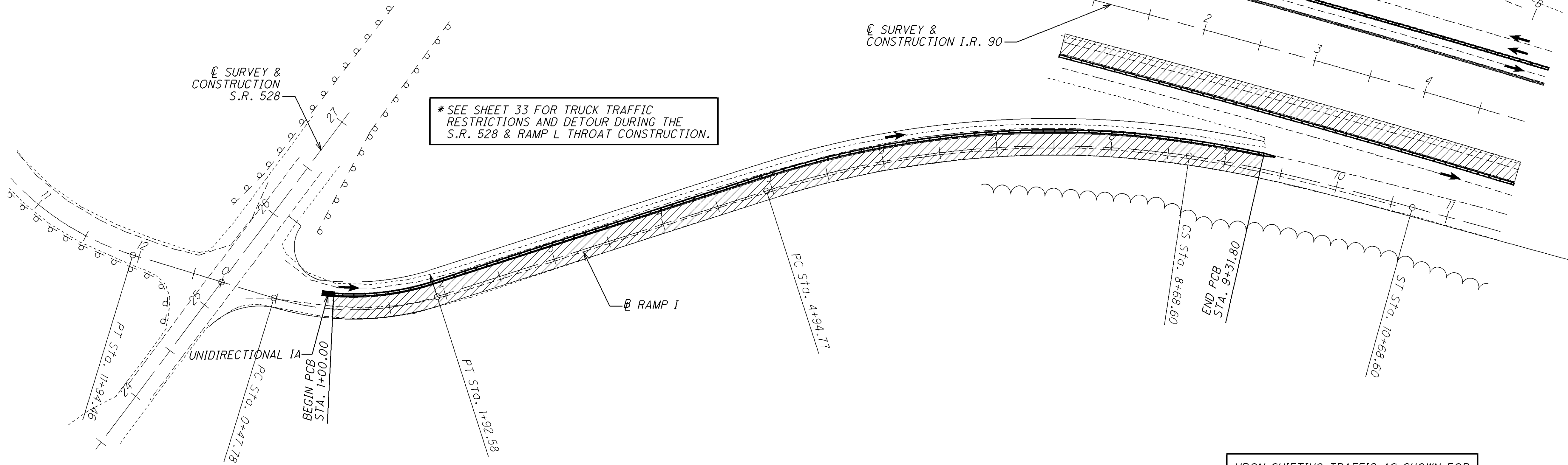
WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER

IMPACT ATTENUATOR (IA)

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A



* SEE SHEET 33 FOR TRUCK TRAFFIC RESTRICTIONS AND DETOUR DURING THE S.R. 528 & RAMP L THROAT CONSTRUCTION.

UPON SHIFTING TRAFFIC AS SHOWN FOR PHASE 2, IMPLEMENT TRAFFIC CONTROL AS PER SCD MT-98.11.

LEGEND

WORK AREA

DRUMS

PORTABLE CONCRETE BARRIER (PCB)

PCB WITH GLARE SCREEN

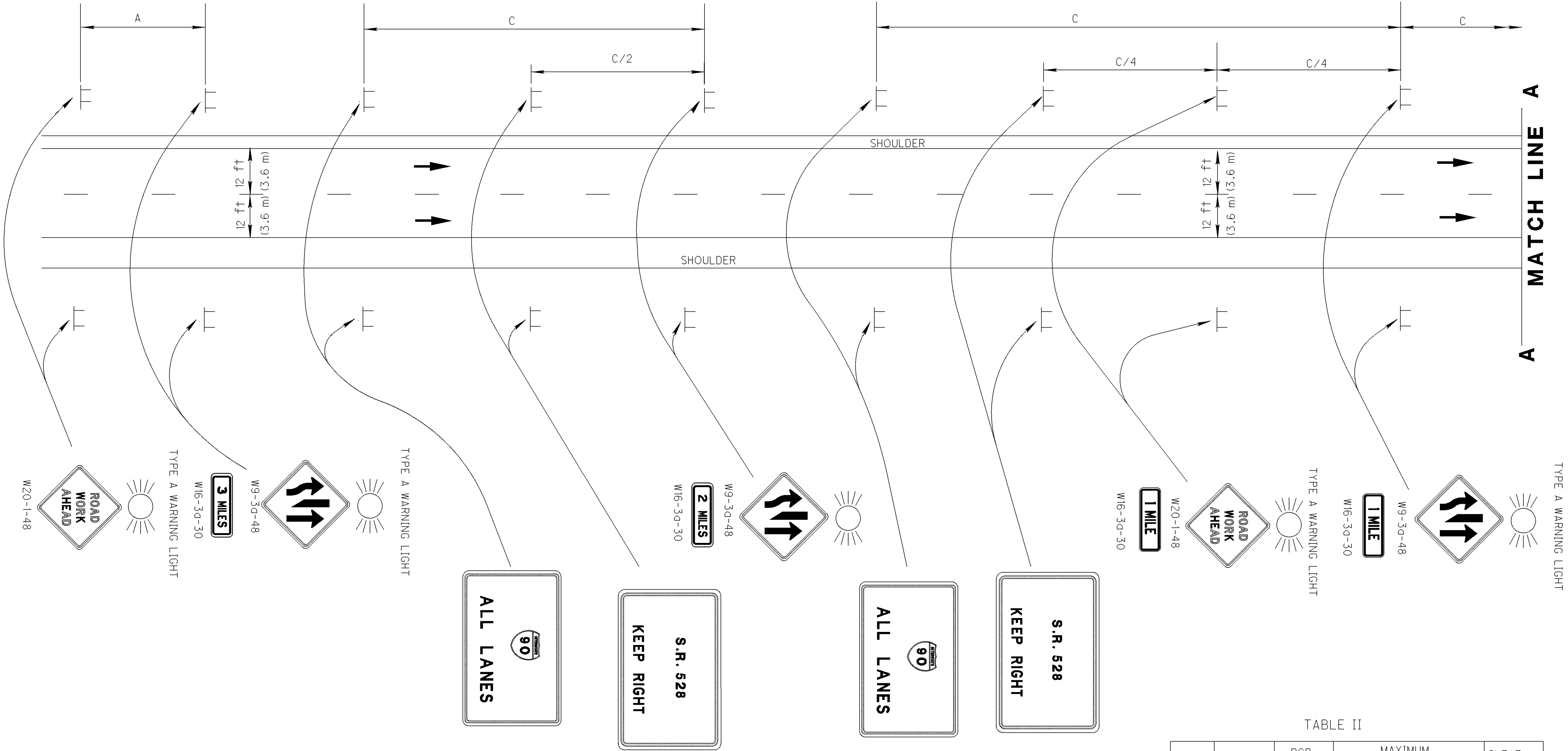
TAPERED END

ATTENUATOR

PCB "Y" CONNECTING SEGMENT

REMOVE EXISTING MARKINGS

DIRECTION OF TRAVEL



ROAD TYPE	DISTANCE BETWEEN SIGNS FT(m)		
	A	B	C
FREEWAY & EXPRESSWAY	1000 (300)	1500 (450)	2640 (800)

SPEED LIMIT (mph)	TAPER RATE MINIMUM	PCB FLARE RATE MINIMUM	MAXIMUM DRUM SPACING FT (m)		CLEAR ZONE WIDTH (E) FT (m)
			Taper sec.	Tangent sec.	
25	11:1	8:1	25 (7.5)	40 (12)	15 (5)
30	15:1	8:1	30 (9)	40 (12)	15 (5)
35	21:1	10:1	35 (10.5)	40 (12)	15 (5)
40	27:1	11:1	40 (12)	80 (24)	15 (5)
45	45:1	13:1	45 (13.5)	80 (24)	19 (6)
50	50:1	14:1	50 (15)	80 (24)	19 (6)
55	55:1	16:1	55 (16.5)	80 (24)	23 (7)
60	60:1	17:1	60 (18)	120 (36)	30 (9)
65	65:1	19:1	65 (19.5)	120 (36)	30 (9)

MATCH LINE

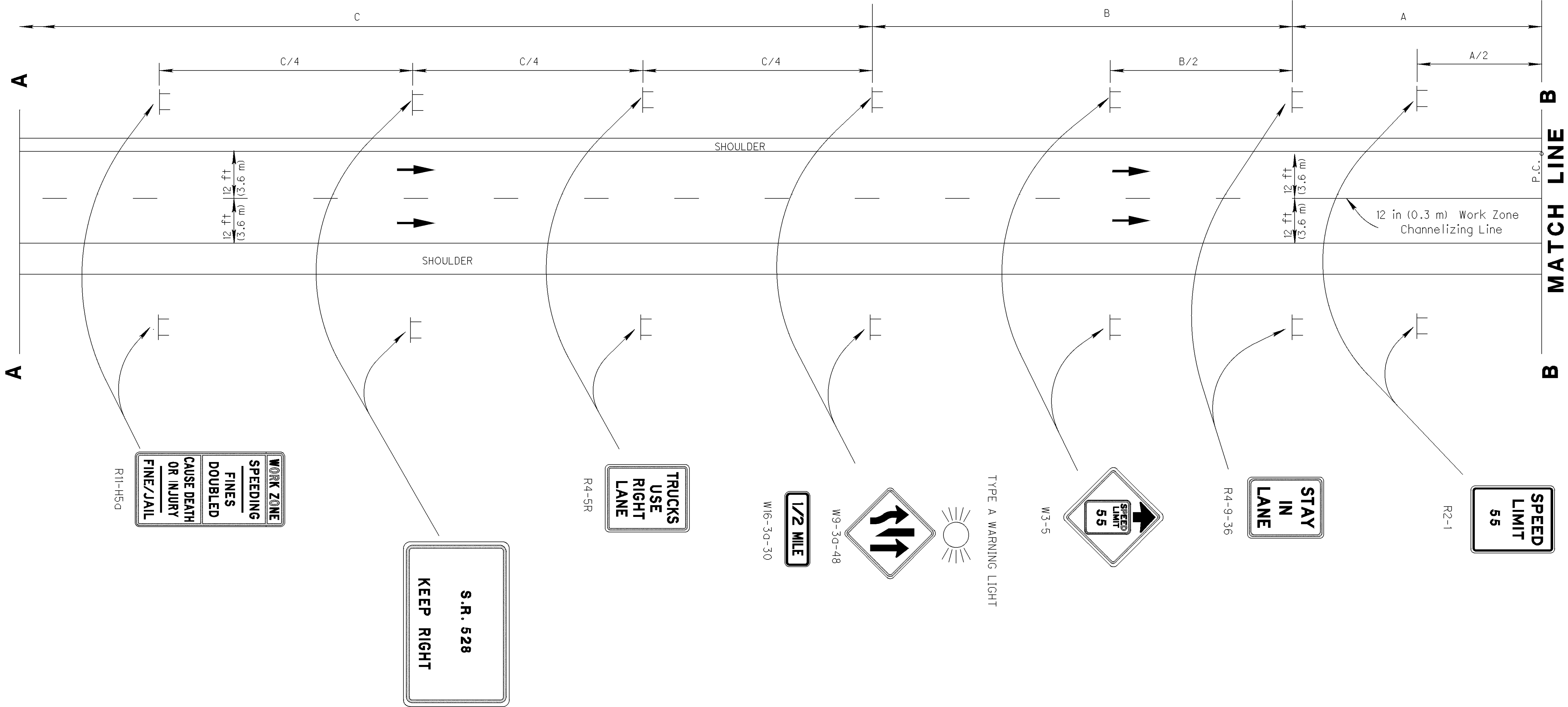
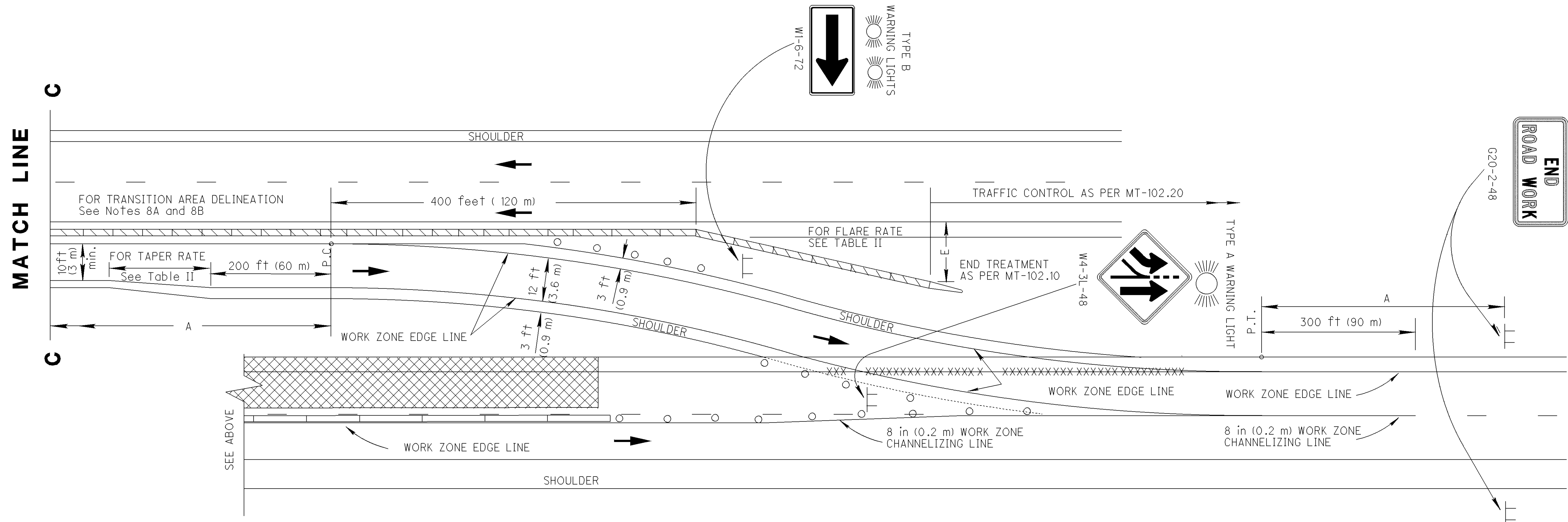
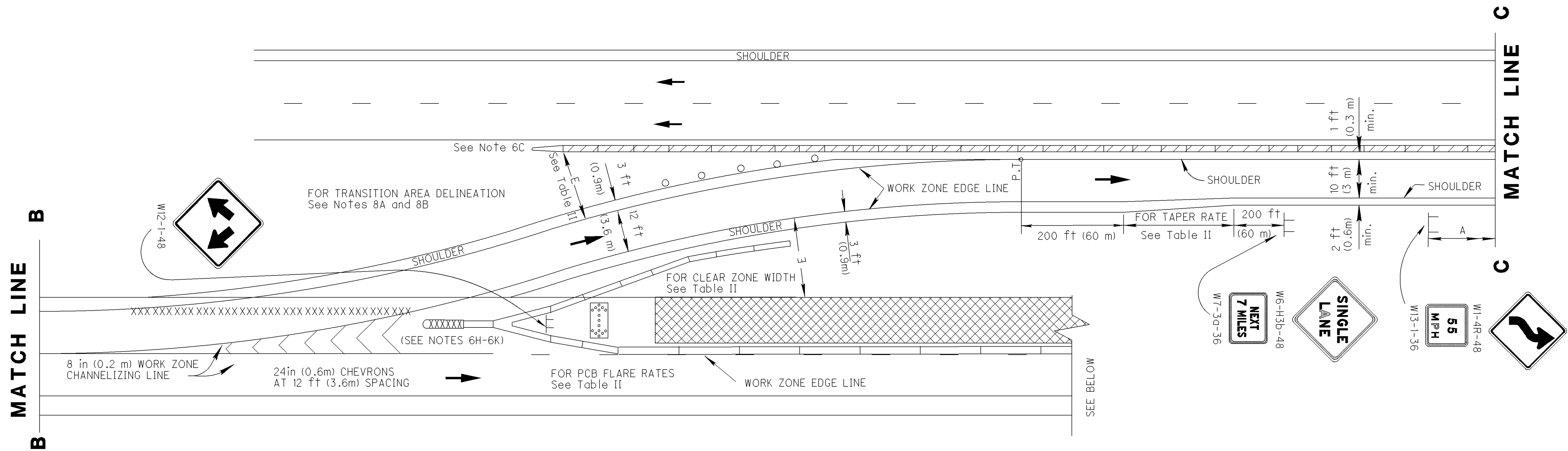


TABLE I (SIGN SPACING)

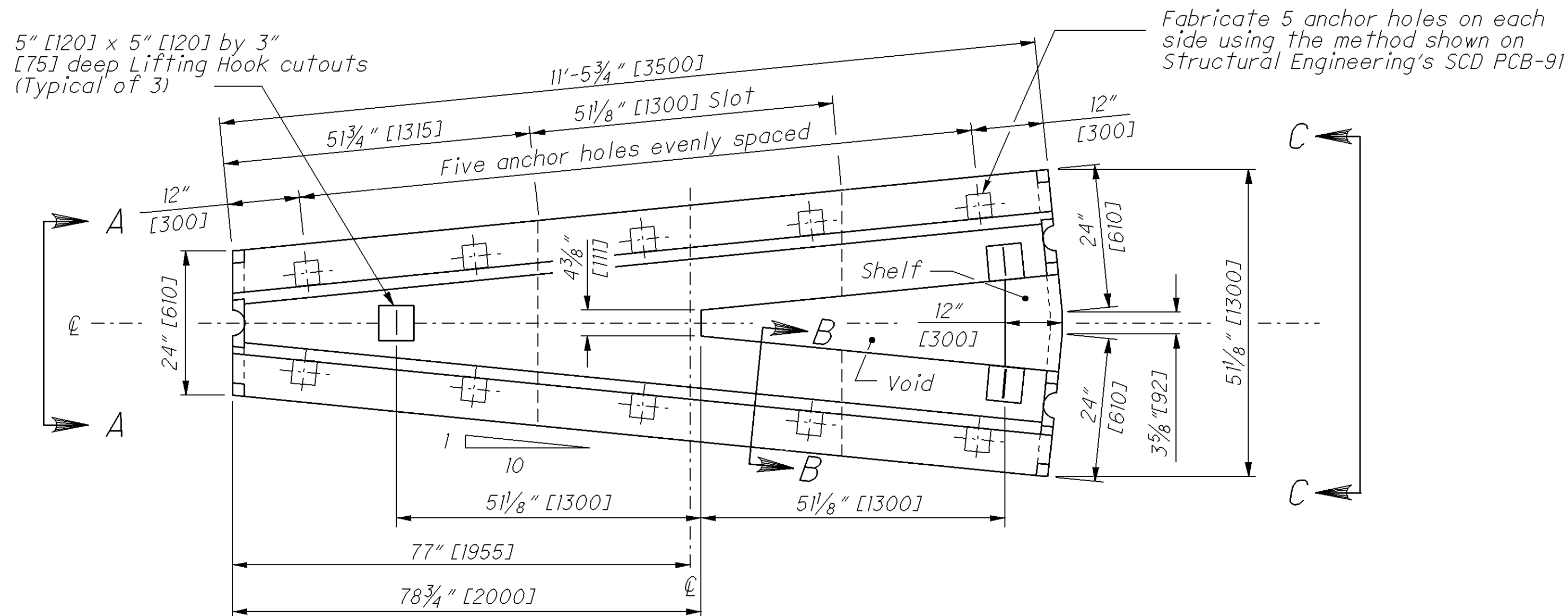
ROAD TYPE	DISTANCE BETWEEN SIGNS FT(m)		
	A	B	C
FREEWAY & EXPRESSWAY	1000 (300)	1500 (450)	2640 (800)

TABLE II

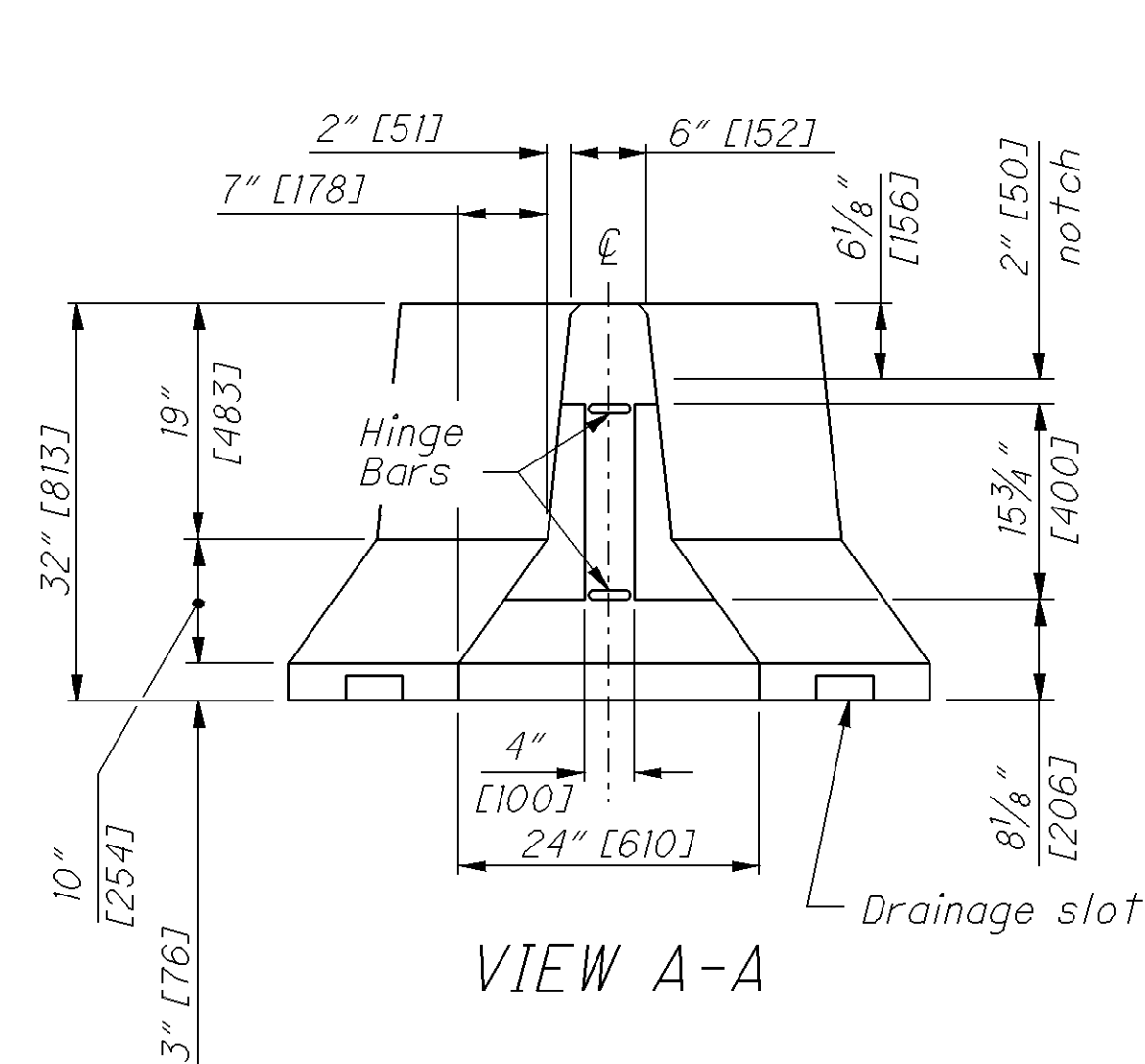
SPEED LIMIT (mph)	TAPER RATE MINIMUM	PCB FLARE RATE MINIMUM	MAXIMUM DRUM SPACING FT (m)		CLEAR ZONE WIDTH (E) FT (m)
			Taper sec.	Tangent sec.	
25	11:1	8:1	25 (7.5)	40 (12)	15 (5)
30	15:1	8:1	30 (9)	40 (12)	15 (5)
35	21:1	10:1	35 (10.5)	40 (12)	15 (5)
40	27:1	11:1	40 (12)	80 (24)	15 (5)
45	45:1	13:1	45 (13.5)	80 (24)	19 (6)
50	50:1	14:1	50 (15)	80 (24)	19 (6)
55	55:1	16:1	55 (16.5)	80 (24)	23 (7)
60	60:1	17:1	60 (18)	120 (36)	30 (9)
65	65:1	19:1	65 (19.5)	120 (36)	30 (9)



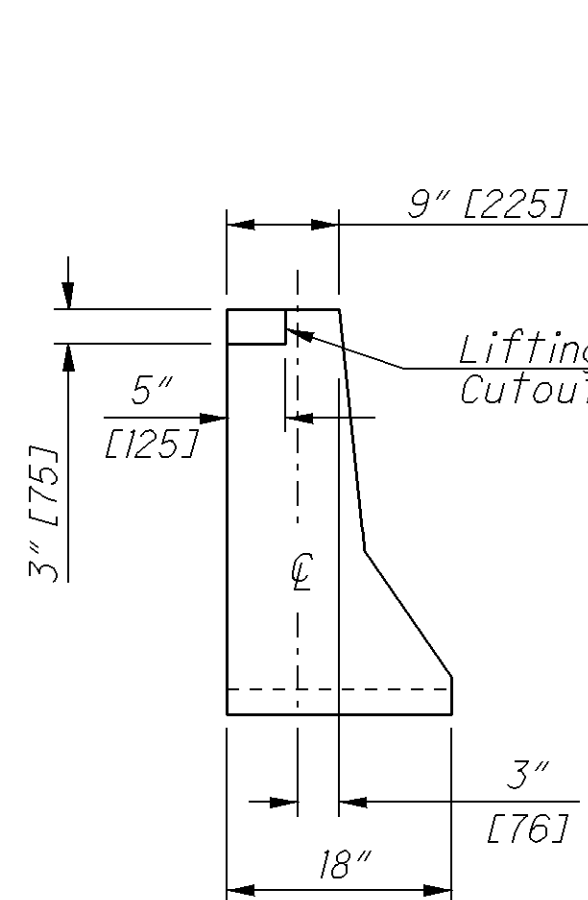
GENERAL NOTES:				OFFICE OF TRAFFIC ENGINEERING	
GENERAL				DESIGNED	REVIEWED
1A. This Standard Construction Drawing presents information which is applicable to crossover design. Additional information, applicable to Maintenance of Traffic on multilane highways can be found on the MT-95.30 and MT-95.40 series drawings, on MT-95.50 and on the MT-102 series drawings.				SHB	LAM
1B. Standard Construction Drawing MT-101.70 shall be used with this drawing.				07-17-09	CHECKED
DESIGN SPEED				PIS NUMBER 209573	
2. The design speed used for taper rates should typically be the permanent legal speed. However, on construction projects for which the speed limit is reduced, the reduced speed may be used in determining the taper rate when the taper is not the first active construction area within the project.				PLAN INSERT SHEET MEDIAN CROSSOVER OF EXPRESS LANE LONG DISTANCE	
TAPERS					
3. The minimum acceptable length of taper shall be determined by multiplying the width of offset by the taper rate. The taper rate is provided in Table II.				LAK-90-21.40 ATB-90-0.00	
SIGNING					
4A. The advisory speed plaque (W13-1) shall be used when specified in the plans.					
4B. The spacing between work zone signs, as shown in Table I, are minimums. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.					
4C. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200 feet (60m) for speeds of 45 mph or less and a minimum of 400 feet (120m) for speeds 50 mph or greater.					
4D. Sign locations should be adjusted to provide adequate sight distance for the existing vertical and horizontal roadway alignment.					
4E. If the tangent distance along the temporary diversion is less than 2000 feet (600 m), place the second Reverse Curve (W1-4) sign at the mid-point of the tangent.					
4F. If the tangent distance along the temporary diversion is 600 feet (180 m) or less, then the double Reverse Curve sign (W24-1) may be used in place of the first Reverse Curve sign, eliminating the need for the second Reverse Curve sign.					
4G. The W6-H3b sign shall be provided along directional single-lane roadways over 3 miles (4.8 km). Spacing of the W6-H3b shall be at approximatly 1 mile (1.6 km).					
4H. Diagrammatic guide signs and interchange guide signs shall be provided as detailed in the plans.					
4J. The guide signs shall have white legends on green background, similar to the D2 and E6 series signs and the E4-H1 sign. However, these signs shall be flat sheet signs on sign posts. The size of the signs shall be as specified in the plans.					
4K. Signing for exit ramps located within the limits of the crossover lane should be as shown in the plan. Signing shall specify which exits are not accessable from the crossover lane.					
4L. Additional information shall be provided in the form of fixed signs and/or changeable message boards as called for in the plans.					
4M. Sign spacing on major conventional highways shall be as called for in Table I for freeway & expressway spacing unless otherwise determined by the Engineer.					
PAVEMENT MARKING				PCB cont.	
5A. The existing conflicting pavement markings and reflectors from the raised pavement markers shall be removed and the appropriate color work zone edge lines shall be applied.				Contractors may choose to install a wide impact attenuator in lieu of utilizing the concrete “Y” segment. For example, a wide impact attenuator at a minimum of 48 inches (1200 mm) wide and rated for the design speed of the roadway could be installed in place of the aforementioned (1) work zone impact attenuator (2) PCB “Y” connector segment and (3) one standard PCB section. However, if contractors use this connection method, the wider impact attenuator must still be crashworthy in accordance with NCHRP Report 350, or MASH-08 and installed as per manufacturer’s instructions.	
5B. Work zone edge lines shall be provided along the tangent section when called for in the plans.				The contractor shall repair or replace a damaged unit within 24 hours of a damaging impact.	
5C. Work zone pavement markings which would conflict with the final traffic lanes shall be removable (CMS 740.06 Type I) tape unless the area will be resurfaced prior to project completion.				6J. Where a PCB “Y” connecting segment is provided, one standard section of PCB shall be provided between the “Y” connecting segment and the impact atenuator.	
5D. After completion of the work, pavement markings other than CMS 740.06, Type I shall be removed in accordance with CMS 614.III. The original markings and raised pavement marker reflectors shall be restored at no additional cost unless separately itemized in the plans.				6K. Connection of the Impact attenuator to the PCB shall be by positive connection. Appropriate crashworthy transitions between the impact attenuator and the first PCB shall be installed.	
5E. Edge lines shall be of the appropriate color for the direction of travel. If the temporary edge lines are located on the same alignment as existing lines, the temporary lines may be painted over top of the existing lines (with subsequent over painting if necessary during the life of the work stage to maintain day and night color) if other than on the final surface. If on the final surface, all marking shall be removable tape as per 5C above.				6L. Where PCB is located beyond the edge of the paved shoulder, the cross slope within the clear zone, including the surface on which the PCB is placed, shall be graded at 10:1 or flatter. If the cross slope is steeper than 10:1, the PCB shall be terminated on the paved shoulder. The PCB shall be extended along the paved shoulder as necessary to satisfy the length of need, and then terminated using an impact attenuator.	
5F. A 12 inch (0.3 m) channelizing line shall be provided in between the crossover lane and the through lane in advance of the “exit” gore, as shown on sheet 2 of 4. All other channelizing lines shown on this drawing shall be of standard 8 inch (0.2 m) width.				6M. For installation procedures for the PCB and for the impact attenuator, refer to manufacturers’ installation instructions.	
5G. If the intended location of the beginning of the channelizing line, as called for in the detail, is on a curve, then the beginning of the channelizing line should be relocated upstream a distance of 500 feet (150 m).				6N. For details on delineation of Portable Concrete Barrier, see Standard Construction Drawing MT-101.70.	
5H. If the beginning of the channelizing line would be located near an exit ramp, then the beginning of the channelizing line shall be relocated upstream a distance of 1000 feet in advance of the beginning of the exit ramp deceleration lane.				6O. PCB shall also be provided along the crossover where the work is within the clear zone of the crossover. The PCB within the gore, along the right side of the crossover lane should be flared as per Table II, with the upstream end of the PCB placed adjacent to the mainline PCB.	
PORTABLE CONCRETE BARRIER				DRUMS	
6A. The portable concrete barrier (PCB) near the exiting crossover, shall extend straight on the permanent roadway to 400 feet (120 m) beyond the PC of the crossover. The PCB shall then be flared at the rate specified in Table II.				7A. Drums along the crossover curves shall be spaced at 20 feet (6 m) center-to-center.	
6B. The PCB shall be 32 inches (813 mm), fitted with glare screen, or may be 50 inches (1270 mm) high if NCHRP 350 compliant.				7B. Drums used to close off a crossover shall be spaced at 10 feet (3 m) center-to-center.	
6C. PCB end treatment shall be by impact attenuator if located within the clear zone of approaching traffic.				7C. All other drum spacing shall be as per Table II.	
6D. PCB end treatment may be by tapered ends if located beyond the clear zone of approaching traffic.				7D. Drums located along the crossover ramps should be placed on the aggregate shoulder as much as possible in order to maximize the width of pavement open to traffic.	
6E. When used, impact attenuators shall be installed parallel to traffic. The last full section of PCB, adjacent to the impact attenuator shall be located parallel to traffic. For installation procedures, refer to manufacturer’s installation instructions.				TRANSITION AREA DELINEATION	
6F. No reflectors or other channelizing devices shall be permitted on the face of the PCB facing the exiting crossover, from PC to end of barrier.				8A. Transition area delineation shall be provided, as called for in Plan Insert Sheets 209930 or 209931, or as otherwise called for in the plans.	
6G. Where portable concrete barrier (PCB) is provided at the gore, the impact attenuators shall be installed parallel to mainline traffic.				8B. Additionally, RPMs at 20 feet (6 m) spacing shall be provided beside the channelizing line located between the crossover lane and the through lanes.	
6H. Where the impact attenuator is intended to apply to two barriers within the gore, one from the through lane and one from the crossover, the two barriers shall be joined to form one unit using a PCB “Y” connecting segment. For the “Y” details, see Roadway Plan Insert Sheet “Portable Concrete Barrier ‘Y’ Connector Segment”.				LIGHTING	
				9. Work zone lighting shall be provided as per Standard Construction Drawing MT-100.00.	
				GEOMETIRCS	
				10. Geometrics of the crossover shall be as called for in the plans.	
				EXISTING LONGITUDINAL RUMBLE STRIPS	
				11. Existing longitudinal rumble strips, located within the alignment of the crossover, shall be eliminated by pavement planing and resurfacing.	
				4 / 4	
				59D 498	



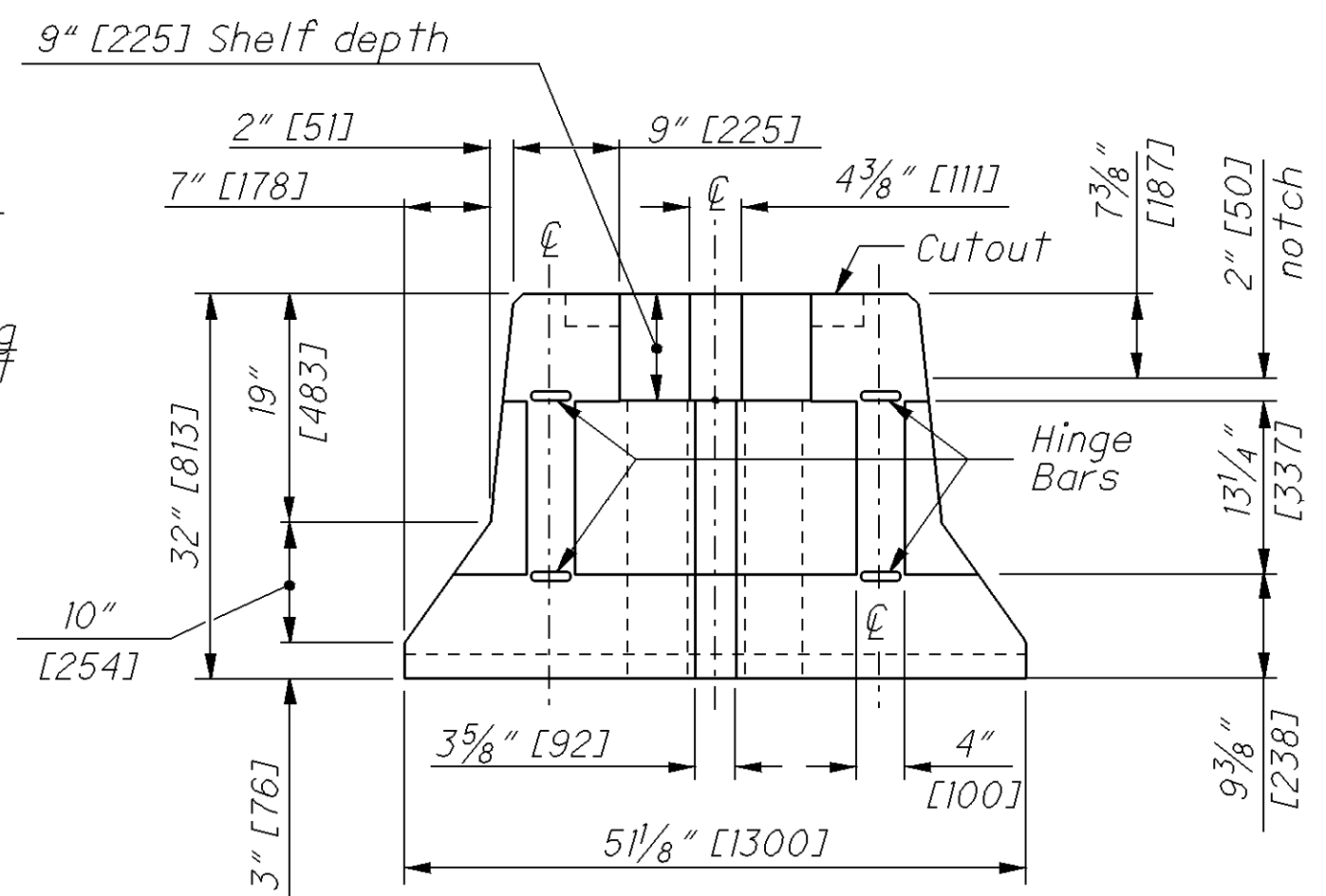
PLAN



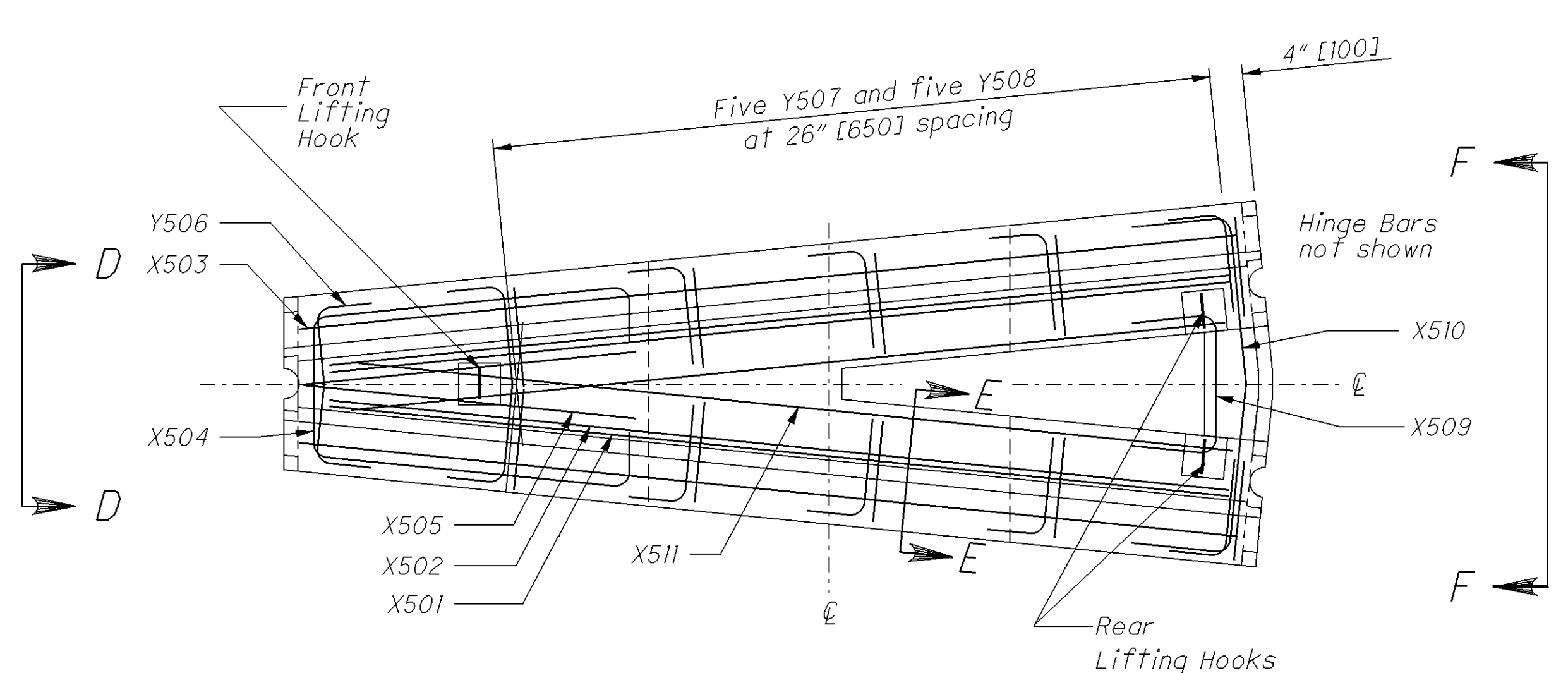
VIEW A-A



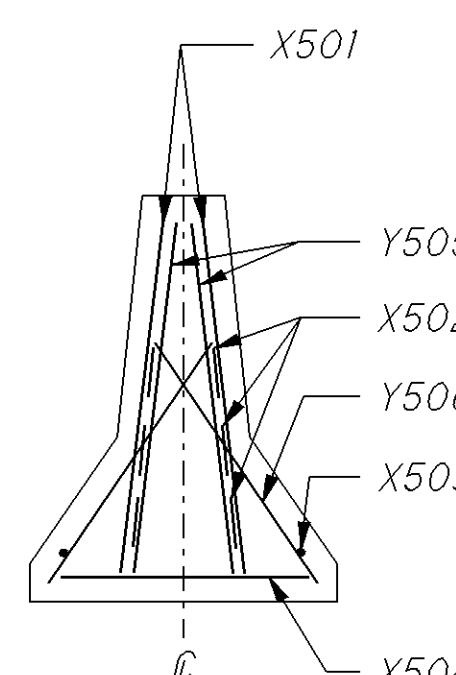
SECTION B-B



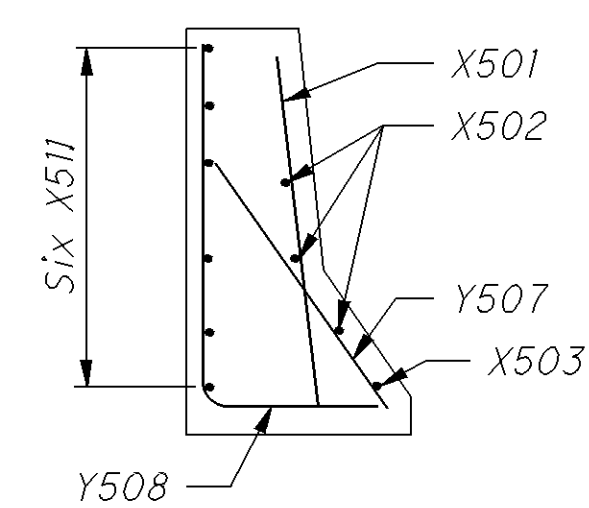
VIEW C-C



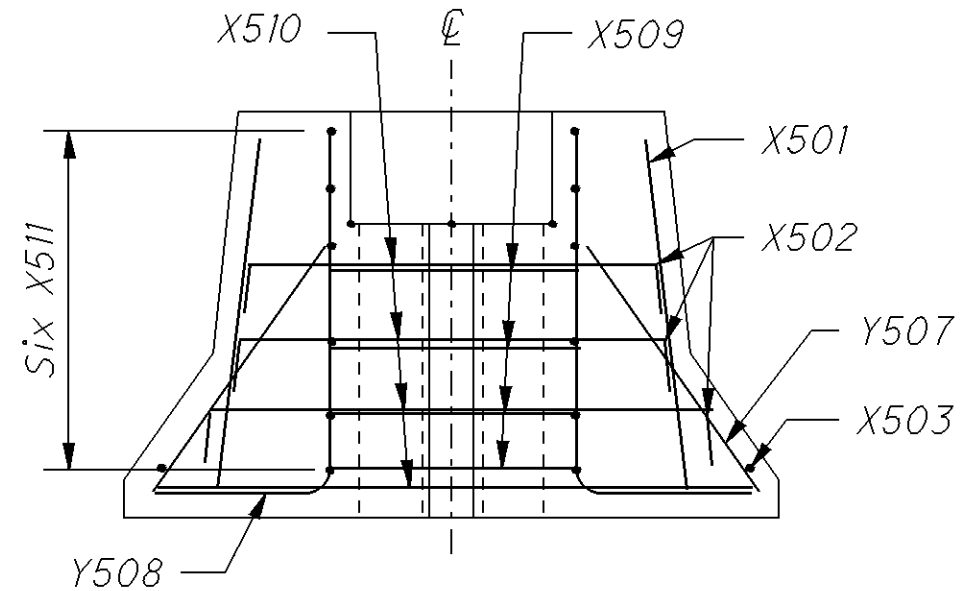
REINFORCING PLAN VIEW



VIEW D-D

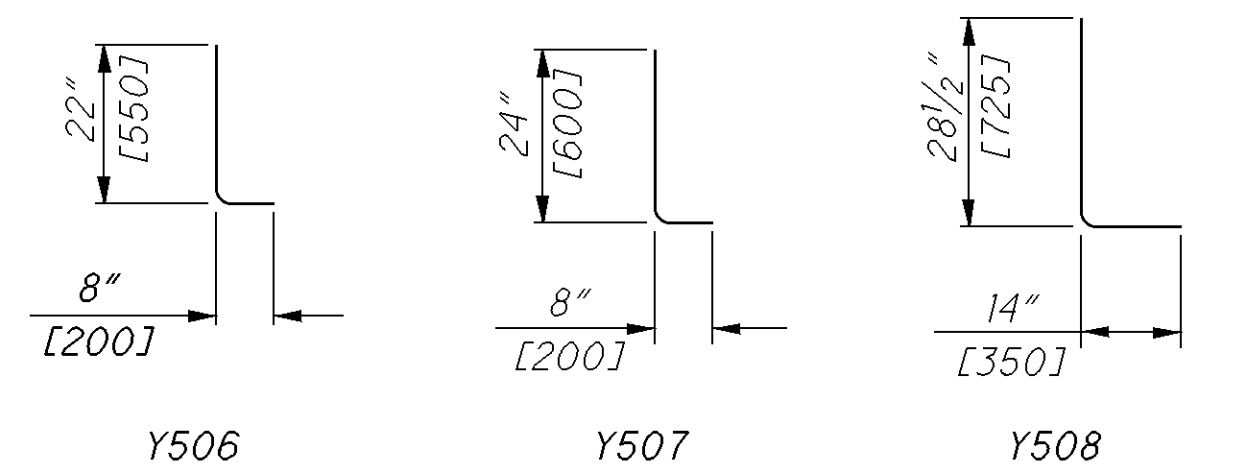
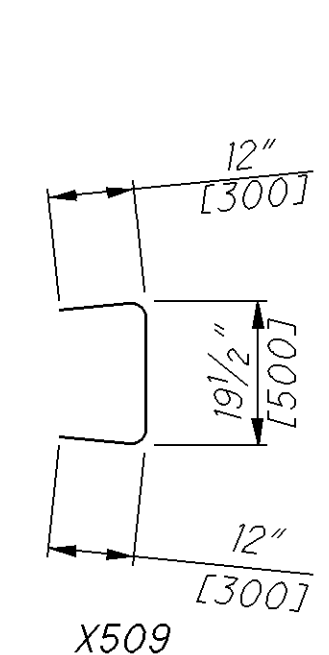
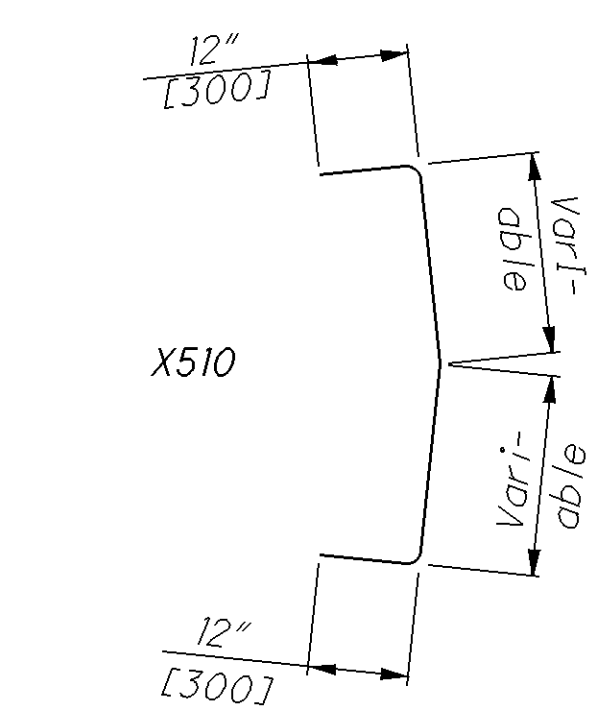
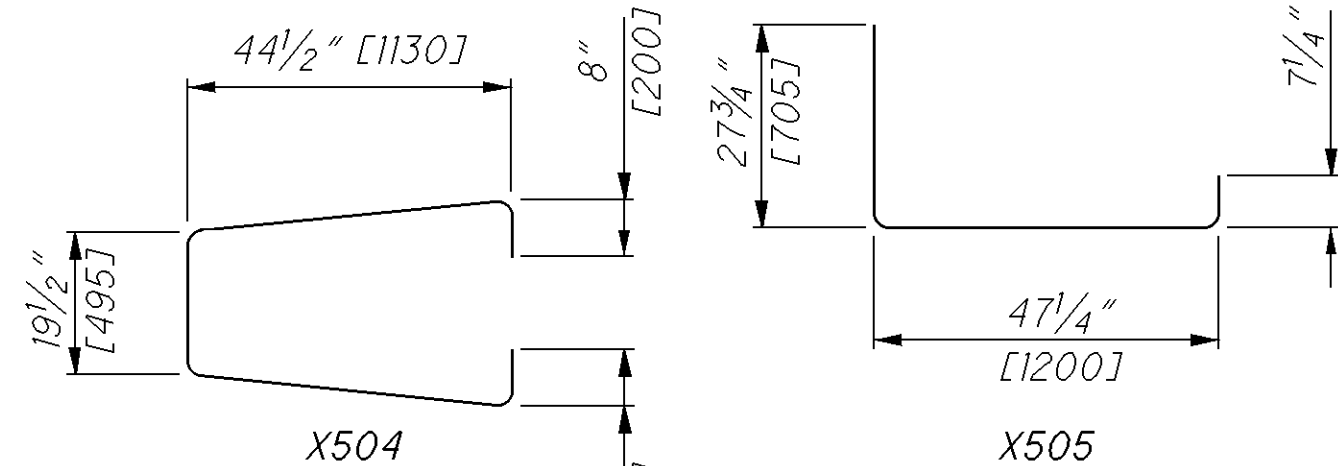
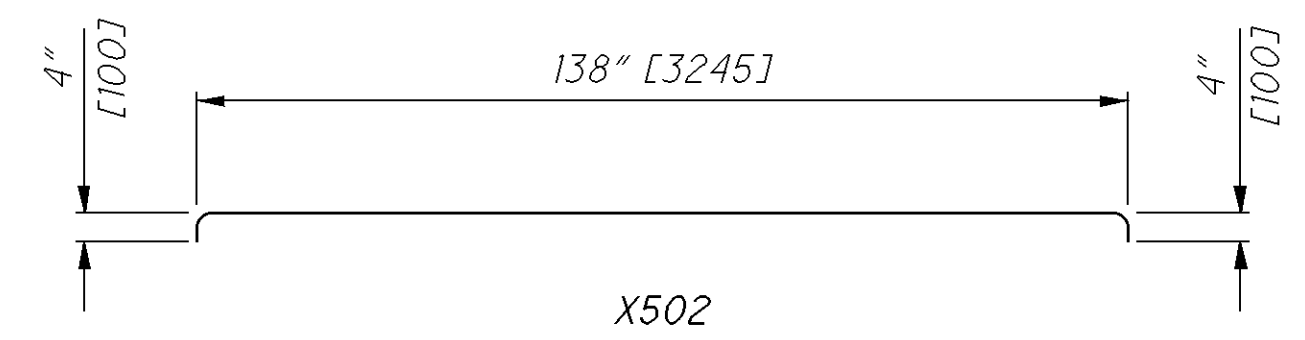
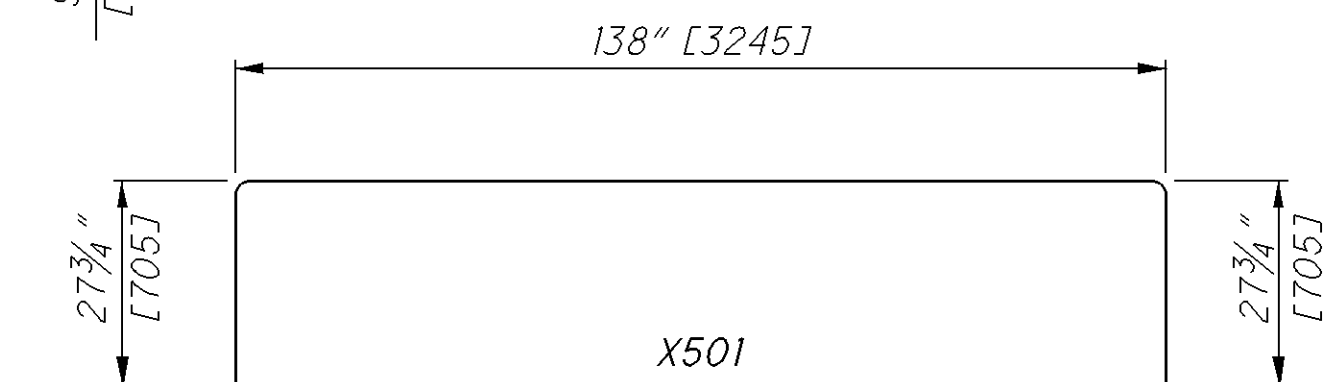


SECTION E-E



VIEW F-F

REINFORCING DETAILS



REINFORCING BAR LIST

BAR	LENGTH	SHAPE	QUANT.
X501	180" [4580]	Bent	2
X502	133" [3370]	Bent	6
X503	133" [3380]	Str.	2
X504	111" [2820]	Bent	1
X505	72" [1830]	Bent	2
Y506	28" [710]	Bent	2
Y507	30" [760]	Bent	10
Y508	41" [1040]	Bent	10
X509	40" [1020]	Bent	4
X510	Varies	Bent	4
X511	124" [3150]	Str.	12

BENDING DIAGRAMS

GENERAL: This barrier segment is used to split one run of portable concrete barrier into dual runs. Attach directly to ODOT's 32" [813] PCB; however, other approved barrier shapes may be connected to this segment by the use of an appropriate transition unit. Attach at least one standard PCB segment in between this "Y" and an Impact Attenuator. Its field application is shown in MOT plans and on MT standard drawings. Do not use this barrier in an unanchored configuration next to bridge deck edges or similar dropoffs, anchor according to method shown on PCBDD or other approved method.

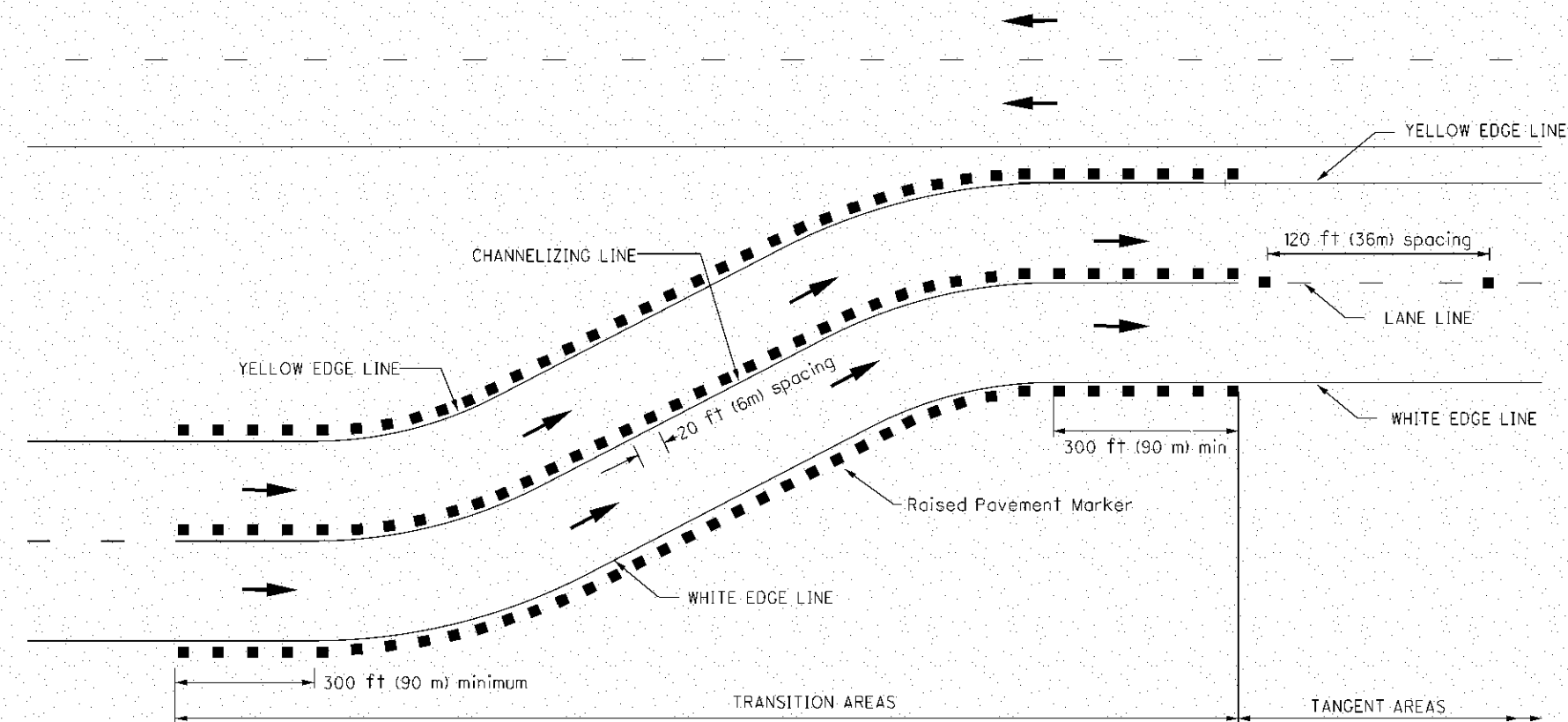
BARRIER DETAILS: Use SCD RM-4.2 for details not shown here, including the geometry of this pin and loop segment matches in every way the design of the end connections shown on the HINGED CONNECTION and JOINT CONNECTION Details (the alternate J-J Hooks connection design is permitted). Additionally, barrier edges may be radiused or chamfered as per the LEGEND Note, barrier is to be permanently marked as mentioned in the MARKINGS Note, and delineate as per the REFLECTORIZATION Note.

MATERIAL SPECIFICATIONS: The minimum design strength of the concrete is 4,000 psi and meets the requirements of CMS 499. For reinforcing steel, use ASTM A615 Grade 60 black steel and provide 2" [50] min. rebar cover. Material specifications for the Hinge and Reinforcing Bars, as well as the Connecting Hardware may be found on SCD RM-4.2. For additional material specifications not shown here, see SCD RM-4.2 and CMS 622.

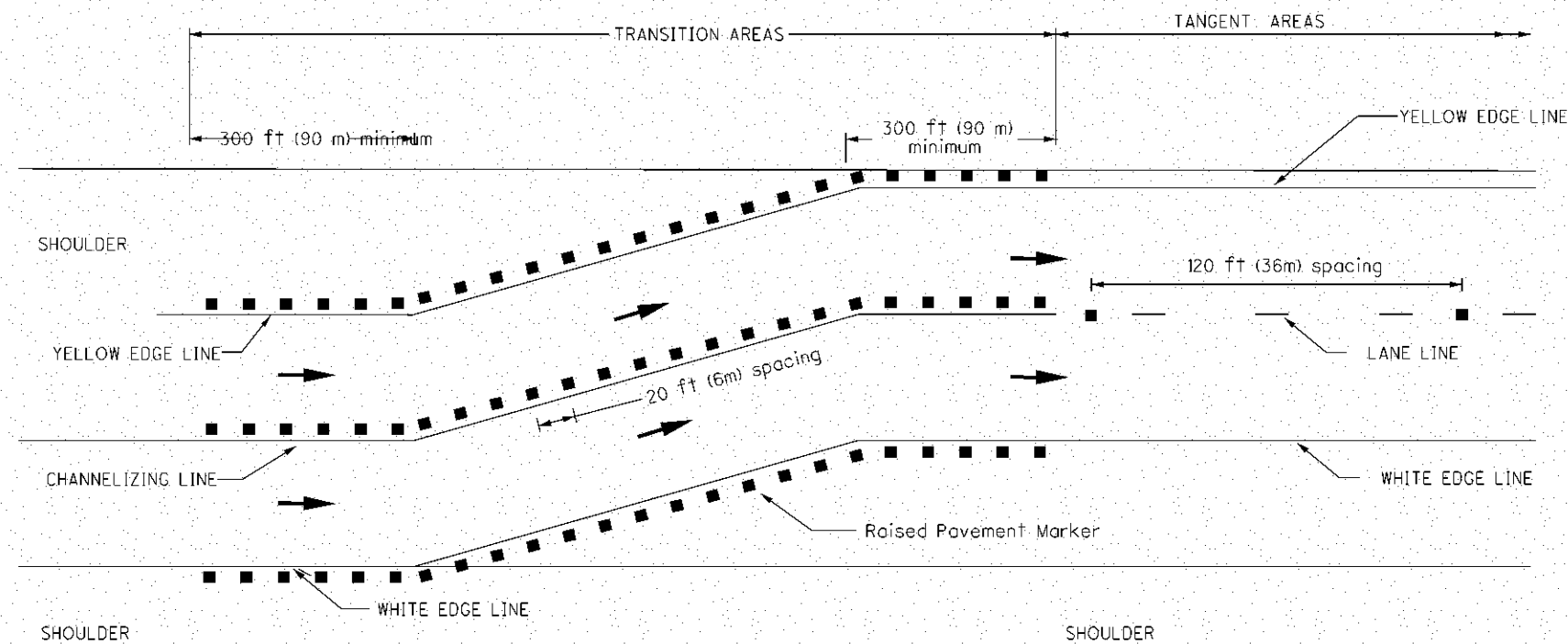
HANDLING: The fabricator is responsible for the design of a lifting system for handling segments. As a minimum, use three lifting points at the locations suggested in the Plan views, and design with a lifting factor of safety of 4. Any protrusions from the lifting hook design is not to affect the crash worthiness of the barrier. The calculations shall be signed, sealed and dated by a Registered Engineer and include these calculations with the Manufacturing Drawings required by Supplement 1073.12. Refer to Part 5 of the PCI Handbook. Approximate segment weight is 8,500 lbs [3850 kg].

PAYMENT: Payment will be made under Item 622 - Portable Concrete Barrier, "Y" Connector, Each, and will include all forms, materials and labor to cast this segment.

ALTERNATE METHOD: Contractors may choose to use a wide Impact Attenuators in lieu of the concrete "Y" alternate. The chosen unit will be a Type 2 or 3 Impact attenuator matching the product previously called for on the project plans at the expected installation location.



WORK ZONE DELINEATION FOR CROSSOVERS



WORK ZONE DELINEATION FOR LANE SHIFTS.

- ## NOTES

1. This drawing presents delineation procedures for freeways and expressways on asphalt surfaces. Procedures are provided for transition areas and for tangent areas. The procedures for transition areas apply to crossovers and to lane shifts of 4 feet (1.2 m) or greater. Delineation of transition areas for shifts of less than 4 inches (1.2 m) shall be as per the tangent area delineation.
2. Raised Pavement Markers shall meet the following seasonal specifications:
 - a) Raised Pavement Markers in place during the normal construction season may be either 621 Raised Pavement Markers or 614 Work Zone Raised Pavement Markers (WZRPMS). The normal construction season with regard to use of WZRPMS shall be the period from April 1 through October 15.
 - b) At locations where it is intended that Raised Pavement Markers will winter over, 621 Raised Pavement Markers shall be provided.
 - c) At locations where it is intended that work will continue beyond October 15 but will be completed prior to the beginning of snow-plowing season, 614 WZRPMS may remain in place until such time. Snow-plowing season shall be as specified in the plans. If snow-plowing season is not specified in the plans, it shall be assumed that snow-plowing season runs from October 16 through March 31. If project delays, not the fault of ODOT, cause work to extend into the snow-plowing season, the contractor shall be responsible for replacing WZRPMS with 621 Raised Pavement Markers, as determined by the Engineer, at the contractor's expense.
3. All material furnished shall be listed on the Department's Prequalified Lists.
4. The geometrics of the crossover shall be as shown in the plans. Additional details are provided in Standard Construction Drawing MT-95.70.
5. See Standard Construction Drawings MT-102.10 and MT-102.20 for more details concerning lane shifts.
6. Spacing of raised pavement markers (RPMs) shall be at 20 feet (6 m) center-to-center for all long-line marking within transition areas. Within tangent areas RPMs shall be provided only along the lane lines, spaced at 120 foot (36 m) center-to-center.
7. The RPMs shall be 1-way, facing oncoming traffic, and shall be white or yellow to match the color of the associated line marking.
8. Along the edge lines, the RPMs shall be offset a maximum of 4 inches (100 mm) to the outside of the lines. Along the channelizing lines, the RPMs shall be offset to the left of the lines by no more than 1 inch (25 mm). Along the lane lines the RPMs shall be centered between dashes.
9. The RPMs shall be removed when they are no longer appropriate.
10. Holes resulting from removal of 621 RPMs shall be filled as per 621.08. If removal of the 621 RPMs does not take place immediately after the highlighted alignment becomes invalid, the reflectors within the 621 RPMs shall be removed.
11. Following removal of 621 RPMs resurfacing of the transition shall be performed. The resurfacing shall be performed at the time the surface course is being applied. In preparation for resurfacing, the existing pavement shall be removed to a depth necessary to match the level of the intermediate course of the proposed pavement.

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**OFFICE OF
TRAFFIC
ENGINEERING**

DESIGNED	REVIEWED	LAM
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REVISION DATE
4/17/09

PIS NUMBER
209930

WORK ZONE DELINEATION ON ASPHALT SURFACES

59F
498

[illegible]

[illegible]

SHEET NUMBER										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	CHECKED
	27	28	29	30	31	32	33	34									
														MAINTENANCE OF TRAFFIC			
					250					614	11110	250	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE			
						27				614	11500	27	MONTH	WORKSITE TRAFFIC SUPERVISOR			
	11		2			10				614	12346	23	EACH	WORK ZONE IMPACT ATTENUATOR, (UNIDIRECTIONAL) OVER 45 MPH, 24" WIDE HAZARDS			
	3									614	12348	3	EACH	WORK ZONE IMPACT ATTENUATOR, (BIDIRECTIONAL) OVER 45 MPH, 24" WIDE HAZARDS			
			14							614	12410	14	EACH	SPEED ZONE AHEAD SYMBOL SIGN			
							LUMP	LUMP		614	12420	LUMP		DETOUR SIGNING			
			24							614	12470	24	EACH	WORK ZONE SPEED LIMIT SIGN			
				14						614	12484	14	EACH	WORK ZONE INCREASED PENALTIES SIGN			
					10					614	12500	10	EACH	REPLACEMENT SIGN			
	2									614	12756	2	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM			
						3,467				614	12800	3,467	EACH	WORK ZONE RAISED PAVEMENT MARKER			
				200		62				614	13001	62	CU. YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN			32
										614	13001	200	CU. YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN (A)			30
	287									614	13200	287	EACH	BARRIER REFLECTOR, TYPE A			
	7,125					226				614	13300	7,351	EACH	BARRIER REFLECTOR, TYPE B			
	1,701					226				614	13350	1,927	EACH	OBJECT MARKER, ONE WAY			
	1,711									614	13360	1,711	EACH	OBJECT MARKER, TWO WAY			
					120					614	18601	120	SIGN MNTH	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN			31
	16.43					16.79				614	20101	33.22	MILE	WORK ZONE LANE LINE, CLASS I, 642 PAINT, AS PER PLAN			29
	170.09					38.53				614	22101	208.62	MILE	WORK ZONE EDGE LINE, CLASS I, 642 PAINT, AS PER PLAN			29
	600					2,278				614	23200	2,878	FT.	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT			
	3,120					5,560				614	24200	8,680	FT.	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT			
	120									614	25200	120	FT.	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT			
	208					90				614	26200	298	FT.	WORK ZONE STOP LINE, CLASS I, 642 PAINT			
	LUMP									615	10000	LUMP		ROADS FOR MAINTAINING TRAFFIC			
	93,709	4,300								615	20000	98,009	SQ. YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A			
				497						616	10000	497	M. GAL.	WATER			
	2,859									617	10101	2,859	CU. YD.	COMPACTED AGGREGATE, AS PER PLAN B			26
	177,492		400			11,080				622	40020	188,972	FT.	PORTABLE CONCRETE BARRIER, 32"			
	85,507									622	40031	85,507	FT.	PORTABLE CONCRETE BARRIER, 50", AS PER PLAN			29
	5					4				622	40100	9	EACH	PORTABLE CONCRETE BARRIER, "Y", CONNECTOR			
				600						630	97800	600	SQ. FT.	SIGNING, MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER			30
	35									642	30030	35	MILE	REMOVAL OF PAVEMENT MARKING			
										SPECIAL	10810000	LUMP		CPM PROGRESS SCHEDULE			
										614	11000	LUMP		MAINTAINING TRAFFIC			
										619	16020	27	MONTH	FIELD OFFICE, TYPE C			
										623	10001	LUMP		CONSTRUCTION LAYOUT STAKES, AS PER PLAN			22
										624	10000	LUMP		MOBILIZATION			

GENERAL SUMMARY

LAK-90-21.40
ATB-90-0.00

IR90_PCS_001.DGN 05/28/09

REFERENCE NO.	SHEET NO.	SURVEY AND CONSTRUCTION (STATION TO STATION)	202		209	448	606								609	626			
			CONCRETE BARRIER REMOVED	GUARDRAIL REMOVED	LINEAR GRADING, AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL), AS PER PLAN	GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE B-98	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE 1	BRIDGE TERMINAL ASSEMBLY, TYPE 2	CONCRETE BARRIER SINGLE SLOPE, TYPE D	CONCRETE BARRIER END SECTION, TYPE D	CURB, TYPE 4A	BARRIER REFLECTOR, TYPE A (WHITE)	BARRIER REFLECTOR, TYPE A (YELLOW)	BARRIER REFLECTOR, TYPE B (WHITE)	
			FT.	FT.	MILE	CU YD	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	FT	EACH	EACH	EACH	
		EASTBOUND I.R. 90																	
1-GR		743+00.00 TO 747+00.00		380	0.076	18.52	337.5		1	1						5			
2-GR		759+54.10 TO 761+81.00		215	0.034	6.94	100.0		1		1		65	1	20	3		2	
3-GR		775+50.00 TO 780+50.00		413	0.095	23.15	437.5		1	1						6			
4-GR		793+00.00 TO 798+00.00		429	0.095	23.15	437.5		1	1						6			
5-GR		815+50.00 TO 820+00.00		450	0.085	20.83	387.5		1	1						5			
6-GR		866+50.00 TO 874+50.00		570	0.152	37.04	737.5		1	1						9			
7-GR		933+00.00 TO 937+00.00			0.076	18.52	337.5		1	1						5			
8-GR		956+42.60 TO 970+47.00		216	0.263	61.92	1,275.0		1	1	1	1	43	2	20	14		2	
9-GR		962+59.00 TO 970+60.20		801															
10-GR		985+50.00 TO 996+50.00		1,053	0.208	50.93	1,037.5		1	1						11			
11-GR		1046+47.10 TO 1048+76.00		216	0.028	6.94	100.0		1		1		53	1	20	3		2	
12-GR		12+50.00 TO 17+50.00		470	0.095	23.15	437.5		1	1						6			
13-GR		40+97.22 TO 42+80.00		195	0.026	6.37	87.5		1		1		32	1	20	3		2	
14-GR		96+50.00 TO 99+00.00		126	0.047	11.57	187.5		1	1						4			
15-GR		115+03.60 TO 0+48.00	44.0	346	0.074	16.78	312.5		1		1		32	1	20	5		2	
		WESTBOUND I.R. 90																	
16-GR		745+50.00 TO 751+50.00		571	0.114	27.78	537.5		1	1						7			
17-GR		757+60.00 TO 760+00.40		246	0.031	7.52	112.5		1		1		66	1	20	3		2	
18-GR		770+00.00 TO 773+00.00		316	0.057	13.89	237.5		1	1						4			
19-GR		777+00.00 TO 783+50.00		603	0.123	30.09	587.5		1	1						8			
20-GR		792+50.00 TO 798+00.00		479	0.104	25.46	487.5		1	1						7			
21-GR		869+00.00 TO 878+00.00		804	0.170	41.67	837.5		1	1						10			
22-GR		956+32.00 TO 958+02.40		203	0.021	5.21	62.5		1		1		46	1	20	3		2	
23-GR		966+00.00 TO 971+00.00		479	0.095	23.15	437.5		1	1						6			
24-GR		991+50.00 TO 1000+00.00		742	0.161	39.35	787.5		1	1						10			
25-GR		1048+78.00 TO 1051+06.40		228	0.031	7.52	112.5		1		1		54	1	20	3		2	
26-GR		13+50.00 TO 24+00.00		1,041	0.199	48.61	987.5		1	1						12			
27-GR		42+78.00 TO 44+96.90		203	0.038	9.26	150.0		1		1		32	1	20	3		2	
28-GR		54+00.00 TO 58+00.00		403	0.076	18.52	337.5		1	1						5			
29-GR		106+50.00 TO 111+50.00		454	0.095	23.15	437.5		1	1						6			
30-GR		119+04.00 TO 3+98.40	44.0	321	0.085	20.83	400.0		1		1		32	1	20	6		2	
		MEDIAN I.R. 90																	
31-GR		758+18.00 TO 761+13.00		608			287.5	2		2							6		
32-GR		956+18.00 TO 958+52.00		612			200.0	2		2							6		
33-GR		1047+22.00 TO 1050+08.00		578			262.5	2		2							6		
34-GR		41+56.00 TO 44+02.00		554			200.0	2		2							6		
35-GR		117+84.00 TO 1+68.00		356			200.0	2		2							6		
		RAMP I																	
36-GR		10+50.00 TO 23+72.69 (SR 528)		227	0.059	14.47	250.0		1	1						5			
		RAMP J																	
37-GR		9+00.00 TO 14+00.00		502	0.095	23.15	437.5		1	1						6			
		RAMP K																	
38-GR		34+90.86 (SR 528) TO 4+00.00		398	0.078	19.10	362.5		1							5			
		RAMP L																	
39-GR		23+68.67 (SR 528) TO 2+50.00		387	0.073	17.94	325.0			2						5			
TOTALS (CARRIED TO GENERAL SUMMARY)			88.0	17,195.0	3.1	742.5	15,250.0	10.0	32.0	34.0	10.0	1.0	455.0	11.0	200.0	199.0	30.0	20.0	

CALCULATED C.Y.	CHECKED	GUARDRAIL SUBSUMMARY	LAK-90-21.40 ATB-90-0.00

UNDERDRAIN QUANTITIES

SHEET NO.	MARK	STATION		SIDE	603			604		605				BENDS AND BRANCHES (FOR INFO. ONLY)														
					6" CONDUIT TYPE B 707.33,707.41,707.42 OR 707.45	6" CONDUIT TYPE F		PRECAST REINFORCED CONCRETE OUTLET		6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (18" DEEP)	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (30" DEEP)	6" UNCLASSIFIED PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P.			6" X 6" TEE	6" X 45° BEND	6" X 90° BEND	6" X 6" WYE	6" X 6" CROSS	6" CAP								
		FROM	TO																									
		I.R. 90																										
122-123	1-UD	724+50 - 730+96		WB							646										1							
122-123	2-UD	724+50 - 730+96		WB								646									1							
122-123	3-UD	724+50 - 730+96		WB								646									1							
122-123	4-UD	724+50 - 731+32		EB								682									1							
122-123	5-UD	724+50 - 731+30		EB								680									1							
122-123	6-UD	724+50 - 731+18		EB							668										1							
123-124	7-UD	731+00 - 745+50		WB		37		2			1450						2	2										
123-124	8-UD	731+00 - 745+50		WB	25							1450						2										
123-124	9-UD	731+02 - 744+67		WB		84						1365					1	1										
123-124	10-UD	731+36 - 745+01		EB		82						1365					1	1										
123-124	11-UD	731+34 - 744+50		EB	30							1316					1	1										
123-124	12-UD	731+21 - 744+50		EB		39		1			1329						1	1	2									
124-125	13-UD	745+54 - 754+00		WB		25.5		1			846							1	1		1							
124-125	14-UD	745+54 - 754+00		WB	12.5							846						1			1							
124-125	15-UD	744+70 - 752+01		WB		35						731						1			1							
124-125	16-UD	745+06 - 752+01		EB		33						695						1			1							
124-125	17-UD	744+54 - 763+96		EB	12.5							1792	150		1						2							
124-125	18-UD	744+54 - 763+96		EB		20					1792	150							1		2							
125-126	19-UD	754+04 - 764+96		WB	12.5						992		100		1						2							
125-126	20-UD	754+04 - 764+96		WB	30.5							992	100							1	2							
125	21-UD	752+05 - 761+58		WB		34						853	100							1	2							
125-126	22-UD	761+62 - 764+80		WB		34.2						318						1			1							
125	23-UD	752+05 - 761+92		EB		33.4						987			1						2							
125-126	24-UD	761+96 - 764+80		EB		48.3						284									1							
125-126	25-UD	764+00 - 770+88		EB	12.5							688				1					1							
125-126	26-UD	764+00 - 770+76		EB		19		1			676							1	1		1							
126	27-UD	765+00 - 771+96		WB		25		1			696							1	1		1							
126	28-UD	765+00 - 771+96		WB	12.5							696							1		1							
126	29-UD	764+894 - 771+32		WB		48						648					1				1							
126	30-UD	764+84 - 770+98		EB		49						614					1				1							
126-127	31-UD	772+00 - 782+50		WB		55		2			1050																	
126-127	32-UD	772+00 - 782+50		WB	25							1050							2	2								
126-127	33-UD	771+36 - 788+68		WB		95						1732					2											
126-127	34-UD	771+02 - 789+00		EB		70						1798					1	1										
126-128	35-UD	770+92 - 790+60		EB	30.5							1968					1	1										
126-128	36-UD	770+79 - 790+60		EB		69					1981						1	1	2									
127	37-UD	782+54 - 788+50		WB		26		1			596							1	1		1							
127	38-UD	782+54 - 788+50		WB	12.5							596						1			1							
127-128	39-UD	788+54 - 793+50		WB		16		1			496							1	1		1							
127-128	40-UD	788+54 - 793+50		WB	12.5							496					1	1			1							
127-128	41-UD	788+72 - 794+94		WB		47						622						1			1							
127-128	42-UD	789+05 - 795+27		EB		26.6						622						1			1							
128	43-UD	790+64 - 795+50		EB	12.5							486							1			1						
128	44-UD	790+64 - 795+50		EB		10		1			486							1	1		1							
128-129	45-UD	793+54 - 805+50		WB	13						1196								1			1						
128-129	46-UD	793+54 - 805+50		WB	25							1196			1						1							
128-129	47-UD	796+36 - 805+50		WB	11							914			1						1							
128-129	48-UD	802+92 - 805+50		WB		27					258			1							1							
128-129	49-UD	795+54 - 803+91		EB	12.5							837						1			1							
128-129	50-UD	795+54 - 803+91		EB		20					837							1	1		1							
128-129	51-UD	796+11 - 805+52		EB		20						941						1			1							
129	52-UD	805+54 - 813+00		WB							746										1							
129	53-UD	805+54 - 813+00		WB								746									1							
129	54-UD	805+54 - 813+00		WB								746									1							
129	55-UD	805+54 - 813+00		WB							746										1							
129-130	56-UD	805+56 - 817+00		EB		20						1144						1			1							
129	57-UD	803+95 - 816+50		EB	12.5							1255						1			1							
129	58-UD	803+95 - 816+50		EB		16		1			1255							1	1		1							
TOTALS CARRIED TO GENEREAL SUMMARY					315.0	1,164.0		12.0			18,742.0	35,443.0	600.0			6.0	13.0	39.0	16.0	3.0	52.0							

UD000001.dwg (DESIGN)

I.R. 90 UNDERDRAIN QUANTITIES

LAK-90-21.40
ATB-90-0.00

CALCULATED
P.J.G.
11-28-05
CHECKED
H.A.M.
12-6-05

UD000001.dwg (DESIGN)

UNDERDRAIN QUANTITIES

SHEET NO.	MARK	STATION		SIDE	603			604	605					BENDS AND BRANCHES (FOR INFO. ONLY)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
					6" CONDUIT TYPE B 707.33,707.41,707.42 OR 707.45	6" CONDUIT TYPE F		PRECAST REINFORCED CONCRETE OUTLET		6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (18" DEEP)	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (30" DEEP)	6" UNCLASSIFIED PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P.			6" X 6" TEE	6" X 45° BEND	6" X 90° BEND	6" X 6" WYE	6" X 6" CROSS	6" CAP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

UD00001.dwg (DESIGN)

UNDERDRAIN QUANTITIES

SHEET NO.	MARK	STATION		SIDE	603			604		605				BENDS AND BRANCHES (FOR INFO. ONLY)																	
					6" CONDUIT TYPE B 707.33,707.41,707.42 OR 707.45	6" CONDUIT TYPE F		PRECAST REINFORCED CONCRETE OUTLET		6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (18" DEEP)	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (30" DEEP)	6" UNCLASSIFIED PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P.			6" X 6" TEE	6" X 45° BEND	6" X 90° BEND	6" X 6" WYE	6" X 6" CROSS	6" CAP											
		FROM	TO																												
		I.R. 90																													
137	115-UD	948+54	- 955+50	WB	12.5					696							1			1											
137	116-UD	948+54	- 955+50	WB	31						696						1			1											
137	117-UD	948+54	- 955+50	WB		33					696						1			1											
137	118-UD	948+54	- 955+50	EB		14					696						1			1											
137	119-UD	948+54	- 955+50	EB	31						696						1			1											
137	120-UD	948+54	- 955+50	EB	12.5					969									1	1											
137-138	121-UD	955+54	- 961+00	WB	12.5					546									1	1											
137-38	122-UD	955+54	- 961+00	WB	31						546						1			1											
137-138	123-UD	955+54	- 961+00	WB		34					546						1			1											
137-138	124-UD	955+54	- 960+00	EB	31						296	150					1			1											
137-138	125-UD	955+54	- 960+00	EB	12.5						296	150							1	1											
137-138	126-UD	955+54	- 960+00	EB		34		1		296		150							1	1											
138	127-UD	961+04	- 966+00	WB		16		1		496									1	1											
138	128-UD	961+04	- 966+00	WB	12.5						496								1	1											
138	129-UD	961+04	- 969+00	WB		33					796								1	1											
138	130-UD	960+00	- 965+50	EB	31						550								1	1											
138	131-UD	960+00	- 965+50	EB	12.5						550						1														
138	132-UD	960+00	- 965+50	EB		11		1		550									1	1											
138-139	133-UD	966+04	- 971+00	WB		15		1		496									1	1											
138-139	134-UD	966+04	- 971+00	WB	12.5						496								1	1											
138-139	135-UD	969+04	- 978+65	WB		48					961						1			1											
138	136-UD	965+54	- 968+64	EB		50					310						1			1											
138-139	137-UD	965+54	- 971+00	EB	12.5						546								1	1											
138-139	138-UD	965+54	- 971+00	EB		12		1		546									1	1											
139	139-UD	971+04	- 978+79	WB		29				775									1	1											
139	140-UD	971+04	- 978+66	WB	18						762								1	1											
	141-UD	NOT USED																													
138-139	142-UD	968+68	- 979+00	EB		15					1032									1											
139	143-UD	971+04	- 979+00	EB	31						796								1	1											
139	144-UD	971+04	- 979+00	EB	12.5					796									1	1											
139-140	145-UD	978+83	- 987+80	WB		28				897									1	1											
139-140	146-UD	978+70	- 987+80	WB	12.5						910								1	1											
139-140	147-UD	978+69	- 987+66	WB		47					897								1	1											
139-140	148-UD	979+04	- 988+00	EB		16					896									1	1										
139-140	149-UD	979+04	- 988+00	EB	31						896									1	1										
139-140	150-UD	979+04	- 988+00	EB	12.5					896										1	1										
140	151-UD	987+84	- 994+46	WB		28				662									1	2											
140	152-UD	987+84	- 994+46	WB	12.5						662									1	2										
140	153-UD	987+70	- 994+46	WB		47					676								1	1											
140	154-UD	988+00	- 994+46	EB							646									1											
140	155-UD	988+00	- 994+46	EB							646									1											
140	156-UD	988+00	- 994+46	EB						646										1											
140-142	157-UD	994+50	- 1010+00	WB																											

I.R. 90 UNDERDRAIN QUANTITIES

LAK-90-21.40
ATB-90-0.

UD00001.dwg (DESIGN)

UNDERDRAIN QUANTITIES

SHEET NO.	MARK	STATION		SIDE	603			604	605				BENDS AND BRANCHES (FOR INFO. ONLY)																		
					6" CONDUIT TYPE B 707.33,707.41,707.42 OR 707.45	6" CONDUIT TYPE F		PRECAST REINFORCED CONCRETE OUTLET		6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (18" DEEP)	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (30" DEEP)	6" UNCLASSIFIED PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P.			6" X 6" TEE	6" X 45° BEND	6" X 90° BEND	6" X 6" WYE	6" X 6" CROSS	6" CAP											
		FROM	TO		FOOT	FOOT		EACH		FOOT	FOOT	FOOT			EACH	EACH	EACH	EACH	EACH	EACH											
		I.R. 90																													
143-144	175-UD	1024+04 - 1035+00		WB	8					1096							1														
143-144	176-UD	1024+04 - 1035+00		WB	43						1096		1						1												
143-144	177-UD	1024+99 - 1035+00		WB		34					1096		1						1												
143-144	178-UD	1024+99 - 1035+00		EB		35					1146		1						1												
143-144	179-UD	1023+54 - 1035+00		EB	44						1146		1						1												
143-144	180-UD	1023+54 - 1035+00		EB	8					1146						1			1												
144	181-UD	1035+04 - 5+00 RAMP J		WB		21		1		854							1	1													
144	182-UD	1035+04 - 5+00 RAMP J		WB	8						854							1													
144	183-UD	1035+04 - 1040+96		WB		23					592							1													
144	184-UD	1035+04 - 1040+96		EB		46					592							1													
421	185-UD	SEE RAMP I																													
421	186-UD	SEE RAMP I																													
144-146	285-UD	1041+00 - 15+36		WB		60					2710		1						1	2											
144-146	286-UD	1041+00 - 15+78		EB		53					2752		2						2												
428-429	187-UD	SEE RAMP J																													
144-145	188-UD	1043+01 - 3+60		WB	12.5	10				1333			1						1												
144-145	189-UD	1043+01 - 3+60		WB	45						1333					1		1	1												
144-145	190-UD	1039+23 - 2+98		EB	43.5						1649		1			1	2		1												
144-145	191-UD	1039+23 - 2+98		EB	30					1649			1			1	1		1												
438	192-UD	SEE RAMP K																													
438	193-UD	SEE RAMP K																													
438	194-UD	SEE RAMP K																													
146	195-UD	8+00 - 13+46		EB	8						546		1						1												
146	196-UD	8+00 - 13+46		EB		31		1		546			1						1												
146	197-UD	13+00 - 18+46		WB		20		1		546							1	1	1												
146	198-UD	13+00 - 18+46		WB	8						546								1												
146	199-UD	13+50 - 19+96		EB	8						646							1		1											
146	200-UD	13+50 - 19+96		EB		24		1		646								1	1												
146-147	201-UD	15+40 - 31+64		WB		64					1624					2															
146-147	202-UD	15+40 - 32+00		EB		74					1660					1		1													
146-147	203-UD	18+50 - 27+00		WB		35		2		850								2	2												
146-147	204-UD	18+50 - 27+00		WB	25						850							2													
146-147	205-UD	20+00 - 28+00		EB	25						800							2													
146-147	206-UD	20+00 - 28+00		EB		57		2		800								2	2												
147	207-UD	27+04 - 32+50		WB		20		1		546								1	1												
147	208-UD	27+04 - 32+50		WB	12.5						546							1													
147	209-UD	28+04 - 33+00		EB	12.5						496							1													
147	210-UD	28+04 - 33+00		EB		31		1		496								1													
147-148	211-UD	32+54 - 38+00		WB		20		1		546								1	1												
147-148	212-UD	32+54 - 38+00		WB	12.5						546							1													
147-148	213-UD	33+11 - 37+14		WB		50					403					1															
147-148	214-UD	32+86 - 37+49		EB		34					463							1													
147-148	215-UD	33+04 - 38+00		EB	12.5						496							1													
147-148	216-UD	33+04 - 38+00		EB		19		1		496								1	1												
148	217-UD	38+04 - 44+46		WB	12.5					642																					
148	218-UD</																														

UDQ0001.das (DESIGN)

RAMP UNDERDRAIN QUANTITIES & MAINLINE STORM SEWER AND DITCH EROSION QUANTITIES

SHEET NO.	MARK	STATION		SIDE	603			604		605			BENDS AND BRANCHES (FOR INFO. ONLY)												670	
					6" CONDUIT TYPE B 707.33,707.41,707.42 OR 707.45	6" CONDUIT TYPE F	15" CONDUIT TYPE C	PRECAST REINFORCED CONCRETE OUTLET (P.R.C.O.)	CATCH BASIN #4	6" BASE PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (18" DEEP)	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P. (30" DEEP)	6" UNCLASSIFIED PIPE UNDERDRAIN WITH FABRIC WRAP A.P.P.	6" X 6" TEE	6" X 45° BEND	6" X 90° BEND	6" X 6" WYE	6" X 6" CROSS	6" CAP								
		FROM	TO																							FOOT
		RAMP I																		SHEET	MARK	STATION	SIDE	LENGTH	WIDTH	
421	185-UD	0+16 - 11+98		RT	8						1182					1	2			125	1-EP	756+00 - 757+50	MED	150	7.5	125
421	186-UD	0+16 - 12+39		RT		20		1		1223					1		2			125	2-EP	760+11 - 761+61	LT	150	7.5	125
421	288-UD	4+50 - 12+67		LT	20						832			1			1			125	3-EP	760+11 - 761+61	RT	150	7.5	125
RAMP J		4+44 - 11+76		RT	20						654	76	1				2			125	4-EP	761+61 - 763+11	MED	150	9.0	150
428-429	187-UD	NOT USED																		126	5-EP	764+50 - 766+00	MED	150	9.0	150
428	289-UD	NOT USED																		126	6-EP	771+00 - 772+50	MED	150	9.0	150
428	290-UD	NOT USED																		126	6-EP	771+00 - 772+50	MED	150	9.0	150
428-429	302-UD	5+04 - 14+00		MED		34		2		696		200			1	1	1	2		127	7-EP	787+50 - 789+00	MED	150	9.0	150
428-429	303-UD	5+04 - 14+00		RT	16						650	246			1		1	2		128	8-EP	793+77 - 795+50	MED	173	9.0	173
RAMP K		6+04 -12+96		LT		22		1		692			1			1				129	9-EP	804+00 - 805+50	MED	150	9.0	150
439	192-UD	6+04 -12+96		LT																133	10-EP	866+50 - 868+00	MED	150	9.0	150
439	193-UD	6+04 - 12+96		LT	8						692		1				1			134	11-EP	872+50 - 874+00	MED	150	9.0	150
439	194-UD	6+04 - 6+83		RT		10					799			1			1			135	12-EP	882+00 - 883+500	MED	150	9.0	150
439	291-UD	0+16 - 6+00		LT		19		1		602					1	1	1			135	13-EP	928+50 - 930+00	MED	150	9.0	150
439	292-UD	0+52 - 6+00		LT	8						548		1				1			137	14-EP	947+00 - 948+50	MED	150	9.0	150
439	293-UD	0+23 - 6+00		RT	20						600				1		1			137	15-EP	954+00 - 955+50	MED	150	9.0	150
RAMP L		0+50 - 3+00		LT	20						288						1			137	16-EP	955+50 - 956+00	LT	150	7.5	125
447	294-UD	0+48 - 3+00		RT	8						252		1				1			137	17-EP	955+50 - 956+00	RT	150	7.5	125
447	295-UD	0+00 - 3+00		RT		16		1		323					1	1	1			138	18-EP	959+50 - 961+00	MED	150	9.0	150
447	296-UD	0+00 - 3+00		RT																138	19-EP	967+50 - 969+00	MED	150	9.0	150
447	297-UD	3+04 - 9+51		LT	20						647		1				1			139	20-EP	977+50 - 979+00	MED	150	9.0	150
447	298-UD	3+04 - 8+79		RT	12						575			1			1			140	21-EP	984+50 - 986+00	MED	150	9.0	150
447	299-UD	3+04 - 8-87		RT		17				583				1		1	1			140	22-EP	986+00 - 988+00	MED	150	9.0	150
447	300-UD	8-83 - 13+69		RT							486		1				1			140	23-EP	988+00 - 990+00	MED	200	9.0	200
447	301-UD	8+92 - 13+69		RT						477							1			140	24-EP	990+00 - 991+50	MED	150	9.0	150
STORM SEWER QUANTITIES		I.R. 90																		144	25-EP	1045+50 - 1047+00	MED	150	9.0	150
145	1-SS	1049+50		RT				1												144	26-EP	1047+00 - 1048+50	LT	150	7.5	125
148	2-SS	39+48 - 41+00		MED		152		1												144	27-EP	1047+00 - 1049+50	RT	250	7.5	208.3
																				145	28-EP	4+50 - 6+00	MED	150	9.0	150
																				148	29-EP	39+50 - 41+00	MED	150	7.5	125
																				148	30-EP	41+00 - 42+50	LT	150	7.5	125
																				148	31-EP	41+00 - 42+50	RT	150	7.5	125
																				150	32-EP	71+00 - 72+50	RT	150	7.5	125
																				151	33-EP	78+00 - 79+50	RT	150	7.5	125
																				152	34-EP	93+00 - 94+50	LT	150	7.5	125
																				145	35-EP	1052+23 - 1+00	LT	150	7.5	125
																				145	36-EP	1+00 - 2+50	LT	150	7.5	125
TOTALS CARRIED TO GENEREAL SUMMARY					160.0	138.0	152.0	6.0	2.0	4,596.0	8,205.0	522.0	8.0	3.0	7.0	6.0	3.0	25.0								5,181.3

Mainline I.R. 90 Asphalt Concrete Pavement Calculations																				
STATION	LENGTH	PAVEMENT WIDTH	PAVEMENT AREA	204	206	304	617			302	407	442								
				PROOF ROLLING	CEMENT STABILIZED SUBGRADE, 12" DEEP	6" AGGREGATE BASE	COMPACTED AGGREGATE, AS PER PLAN A			10.5" ASPHALT CONCRETE BASE	TACK COAT FOR INTERMEDIATE COURSE @ 0.050 GAL/SY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 8mm, TYPE A (446)	1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (446), AS PER PLAN							
	FT	FT	SQ YD	HOURL	SQ YD	CU YD	CU YD			CU YD	GALLON	CU YD	CU YD							
I.R. 90 EASTBOUND LANES																				
724+50.00 TO 828+00.00	10,150.00	24.0	27,066.67	9.02	27,066.67	4,511.11				7,894.44	1,353.33	1,316.74	1,127.78							
828+00.00 TO 832+84.08	684.08	SUSPEND PROJECT STA. 828+00.00																		
832+88.70 TO 847+50.00	1,453.30	RESUME PROJECT STA. 847+50.00																		
847+50.00 TO 891+49.67	4,399.67	24.0	11,732.45	3.91	11,732.45	1,955.41				3,421.87	586.82	570.33	488.85							
827+50.00 TO 1052+73.22	12,523.22	24.0	33,395.25	11.13	33,395.25	5,585.88				9,740.28	1,689.78	1,823.38	1,391.47							
0+0.00 TO 41+87.57	4,187.57	24.0	11,166.85	3.72	11,166.85	1,881.14				3,257.00	558.34	542.83	465.29							
41+88.95 TO 119+06.85	7,717.70	24.0	20,580.53	6.88	20,580.53	3,430.08				6,002.66	1,029.03	1,000.44	857.52							
0+44.81 TO 5+75.00	530.39	24.0	1,414.37	0.47	1,414.37	235.73				412.53	70.72	68.75	58.83							
DECELERATION LANES																				
1027+50.00 TO 1028+50.00	100.00	6.0 (Avg.)	86.67	0.02	86.67	11.11				19.44	3.33	3.24	2.78							
1028+50.00 TO 1034+85.14	635.14	12.0	846.85	0.28	846.85	141.14				247.00	42.34	41.17	35.28							
1034+85.14 TO 1038+22.38	437.22	COMPUTER CALCULATED AREA	1,070.57	0.36	1,070.57	178.43				312.25	53.53	52.04	44.61							
ACCELERATION LANES																				
2+88.57 TO 16+70.13	1,371.56	COMPUTER CALCULATED AREA	2,709.27	0.90	2,709.27	451.55				790.20	135.46	131.70	112.89							
EASTBOUND MAINLINE I.R. 90 TOTALS				36.68	110,049.49	18,341.58				32,087.77	5,502.47	5,349.83	4,585.40							
I.R. 90 WESTBOUND LANES																				
724+50.00 TO 813+00.00	8,850.00	24.0	23,600.00	7.87	23,600.00	3,833.33				6,883.33	1,180.00	1,147.22	983.33							
813+00.00 TO 832+84.08	1,994.08	SUSPEND PROJECT STA. 813+00.00																		
832+88.70 TO 855+50.00	2,253.30	RESUME PROJECT STA. 855+50.00																		
855+50.00 TO 891+49.67	3,599.67	24.0	9,599.12	3.20	9,599.12	1,599.85				2,789.74	479.96	466.82	399.96							
827+50.00 TO 1052+73.22	12,523.22	24.0	33,395.25	11.13	33,395.25	5,585.88				9,740.28	1,689.78	1,823.38	1,391.47							
0+0.00 TO 41+87.57	4,187.57	24.0	11,166.85	3.72	11,166.85	1,881.14				3,257.00	558.34	542.83	465.29							
41+88.95 TO 119+06.85	7,717.70	24.0	20,580.53	6.88	20,580.53	3,430.09				6,002.66	1,029.03	1,000.44	857.52							
0+44.81 TO 5+75.00	530.39	24.0	1,414.37	0.47	1,414.37	235.73				412.53	70.72	68.75	58.83							
DECELERATION LANES																				
3+76.44 TO 7+55.89	379.45	COMPUTER CALCULATED AREA	833.43	0.31	833.43	155.57				272.25	46.67	45.38	38.89							
7+55.89 TO 15+00.00	744.11	12.0	982.15	0.33	982.15	165.36				289.38	49.61	48.23	41.34							
15+00.00 TO 18+00.00	100.00	6.0 (Avg.)	86.67	0.02	86.67	11.11				19.44	3.33	3.24	2.78							
ACCELERATION LANES																				
1029+07.24 TO 1035+07.24	600.00	6.0 (Avg.)	400.00	0.13	400.00	66.67				116.67	20.00	19.44	16.67							
1035+07.24 TO 1038+57.24	350.00	19.5 (Avg.)	758.33	0.25	758.33	126.39				221.18	37.92	36.86	31.60							
1038+57.24 TO 1043+01.34	444.10	COMPUTER CALCULATED AREA	1,572.81	0.52	1,572.81	262.14				458.74	78.84	76.46	65.53							
WESTBOUND MAINLINE I.R. 90 TOTALS				34.83	104,479.52	17,413.25				30,473.19	5,223.98	5,078.88	4,353.31							
MEDIAN U-TURNS																				
757+50.00	COMPUTER CALCULATED AREA		480.27	0.17	525.44	86.94	12.35			147.28	24.51	23.83	20.43							
785+75.00	COMPUTER CALCULATED AREA		480.27	0.17	525.44	86.94	12.35			147.28	24.51	23.83	20.43							
881+50.00	COMPUTER CALCULATED AREA		480.27	0.17	525.44	86.94	12.35			147.28	24.51	23.83	20.43							
1019+50.00	COMPUTER CALCULATED AREA		480.27	0.17	525.44	86.94	12.35			147.28	24.51	23.83	20.43							
32+50.00	COMPUTER CALCULATED AREA		480.27	0.17	525.44	86.94	12.35			147.28	24.51	23.83	20.43							
117+40.00	COMPUTER CALCULATED AREA		480.27	0.17	525.44	86.94	12.35			147.28	24.51	23.83	20.43							
MEDIAN U-TURN TOTALS				1.04	3,152.64	521.84	74.10			883.88	147.08	143.00	122.57							
EASTBOUND MAINLINE I.R. 90 TOTALS				36.68	110,049.49	18,341.58				32,087.77	5,502.47	5,349.83	4,585.40							
WESTBOUND MAINLINE I.R. 90 TOTALS				34.83	104,479.52	17,413.25				30,473.19	5,223.98	5,078.88	4,353.31							
MEDIAN U-TURN TOTALS				1.04	3,152.64	521.84	74.10			883.88	147.08	143.00	122.57							
I.R. 90 MAINLINE AND MEDIANS TOTALS CARRIED TO SHEET 76				72.55	217,681.65	36,276.48	74.10			63,454.64	10,873.53	10,571.49	9,061.28							

Eastbound I.R. 90 Asphalt Concrete Shoulder Pavement Calculations																			
STATION		SIDE	LENGTH	PAVEMENT WIDTH	PAVEMENT AREA	204	206	304	617			302	407	442					
						PROOF ROLLING	CEMENT STABILIZED SUBGRADE, 12" DEEP	6" AGGREGATE BASE	COMPACTED AGGREGATE, AS PER PLAN A			10.5" ASPHALT CONCRETE BASE	TACK COAT FOR INTERMEDIATE COURSE @ 0.060 GAL/SY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 9MM, TYPE A (448)	1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN				
		LT/RT/MED	FT	FT	SQ YD	HOUR	SQ YD	CU YD	CU YD			CU YD	GALLON	CU YD	CU YD				
I.R. 90 EASTBOUND LANES																			
724+50.00	TO	755+08.82	MED	3058.82	5.0	1,888.23	0.72	2,209.00	358.73	113.28		556.97	84.86	82.80	70.80				
755+08.82	TO	757+08.82	MED	200.00	8.5 (Avg.)	188.88	0.07	222.22	36.42	7.41		59.10	9.44	9.18	7.87				
757+08.82	TO	758+05.99	MED	97.37	MEDIAN U-TURN OPENING														
758+05.99	TO	783+13.61	MED	3507.82	5.0	1,848.68	0.82	2,533.28	411.39	129.81		638.73	97.43	94.73	81.19				
783+13.61	TO	785+13.61	MED	200.00	8.5 (Avg.)	188.88	0.07	222.22	36.42	7.41		59.10	9.44	9.18	7.87				
785+13.61	TO	786+10.99	MED	97.38	MEDIAN U-TURN OPENING														
786+10.99	TO	818+70.00	MED	2359.01	5.0	1,310.56	0.55	1,703.73	276.87	87.37		428.57	65.53	63.71	54.61				
818+70.00	TO	826+00.00	MED	830.00	9.5 (Avg.)	685.00	0.25	770.00	126.39	23.33		206.60	33.25	32.33	27.71				
826+00.00	TO	832+84.08	MED	684.08	SUSPEND PROJECT STA. 826+00.00														
832+88.70	TO	847+50.00	MED	1453.30	RESUME PROJECT STA. 847+50.00														
847+50.00	TO	848+75.00	MED	225.00	9.5 (Avg.)	237.50	0.09	275.00	45.14	8.33		73.78	11.88	11.55	9.90				
848+75.00	TO	878+88.68	MED	2913.98	5.0	1,818.71	0.68	2,104.32	341.73	107.81		530.58	80.84	78.89	67.45				
878+88.68	TO	880+88.68	MED	200.00	8.5 (Avg.)	188.88	0.07	222.22	36.42	7.41		59.10	9.44	9.18	7.87				
880+88.68	TO	881+88.00	MED	97.32	MEDIAN U-TURN OPENING														
881+88.00	TO	881+49.87	MED	863.87	5.0	535.37	0.23	685.98	113.02	35.89		175.48	26.77	26.03	22.31				
881+49.87	TO	1016+87.59	MED	8837.59	5.0	4,865.33	2.10	6,464.83	1,046.24	331.02		1,827.52	246.27	241.37	206.89				
1016+87.59	TO	1018+87.59	MED	200.00	8.5 (Avg.)	188.88	0.07	222.22	36.42	7.41		59.10	9.44	9.18	7.87				
1018+87.59	TO	1018+84.91	MED	97.32	MEDIAN U-TURN OPENING														
1018+84.91	TO	1052+73.22	MED	3286.31	5.0	1,826.84	0.77	2,374.88	385.67	121.78		586.80	91.34	88.80	76.12				
1052+73.22	TO	29+88.75	MED	2988.75	5.0	1,860.42	0.70	2,158.54	350.53	110.69		544.25	83.02	80.71	69.18				
29+88.75	TO	31+88.75	MED	200.00	8.5 (Avg.)	188.88	0.07	222.22	36.42	7.41		59.10	9.44	9.18	7.87				
31+88.75	TO	32+88.00	MED	97.25	MEDIAN U-TURN OPENING														
32+88.00	TO	41+87.57	MED	901.57	5.0	500.87	0.21	651.13	105.74	33.39		184.17	25.04	24.35	20.87				
41+87.57	TO	114+78.61	MED	7289.86	5.0	4,049.81	1.71	5,284.75	854.96	289.89		1,327.44	202.49	196.87	166.74				
114+78.61	TO	116+78.61	MED	189.85	8.5 (Avg.)	188.75	0.07	222.06	36.39	7.40		59.06	9.44	9.18	7.86				
116+78.61	TO	117+75.99	MED	97.38	MEDIAN U-TURN OPENING														
117+75.99	TO	119+06.65	MED	130.66	5.0	72.59	0.03	94.37	15.32	4.84		23.79	3.63	3.53	3.02				
119+06.65	TO	5+75.00	MED	530.39	5.0	294.66	0.12	363.06	62.21	19.84		96.58	14.73	14.32	12.28				
5+75.00	TO	724+50.00	RT	160.00	11.0 (Avg.)	183.33	0.07	208.33	34.26	5.56		56.46	9.17	8.81	7.64				
724+50.00	TO	726+00.00	RT	9880.00	12.0	13,146.87	4.87	14,790.00	2,434.57	365.19		4,032.25	657.33	639.07	547.78				
726+00.00	TO	824+80.00	RT	140.00	11.0 (Avg.)	171.11	0.06	184.44	31.88	5.19		52.72	8.58	8.32	7.13				
824+80.00	TO	826+00.00	RT	684.08	SUSPEND PROJECT STA. 826+00.00														
826+00.00	TO	832+84.08	RT	1453.30	RESUME PROJECT STA. 847+50.00														
832+88.70	TO	847+50.00	RT	100.00	11.0 (Avg.)	122.22	0.05	138.88	22.84	3.70		37.85	6.11	5.94	5.09				
847+50.00	TO	848+75.00	RT	4289.87	12.0	5,732.88	2.12	6,449.51	1,081.85	159.25		1,758.35	286.84	278.88	238.87				
848+75.00	TO	1027+50.00	RT	10000.00	12.0	13,333.33	4.94	15,000.00	2,489.14	370.37		4,089.51	686.87	648.15	555.58				
1027+50.00	TO	1028+50.00	RT	100.00	10.0 (Avg.)	111.11	0.04	127.78	20.89	3.70		34.41	5.56	5.40	4.63				
1028+50.00	TO	1034+85.14	RT	635.14	8.0	584.57	0.22	670.43	109.78	23.52		177.41	28.23	27.44	23.52				
1034+85.14	TO	4+38.34	RT (RAMP D)	438.34	8.0	387.86	0.15	460.58	75.42	16.16		121.88	19.39	18.85	16.16				
4+38.34	TO	1052+73.22	RT	1350.86	12.0	1,801.15	0.67	2,026.29	333.55	50.03		552.44	90.06	87.56	75.05				
1052+73.22	TO	2+88.57	RT	298.57	12.0	388.09	0.15	447.86	73.72	11.08		122.10	19.80	19.35	16.59				
2+88.57	TO	13+88.80	RT (RAMP L)	417.50	8.0	371.11	0.14	440.69	72.16	15.46		116.82	18.56	18.04	15.46				
13+88.80	TO	14+70.13	RT	750.10	8.0	686.78	0.26	781.77	129.85	27.78		209.52	33.34	32.41	27.78				
14+70.13	TO	16+70.13	RT	200.00	10.0 (Avg.)	222.22	0.08	255.56	41.88	7.41		66.83	11.11	10.80	9.26				
16+70.13	TO	41+87.57	RT	2517.44	12.0	3,356.59	1.24	3,776.16	621.59	83.24		1,029.51	167.83	163.17	139.86				
41+87.57	TO	118+06.65	RT	7717.70	12.0	10,290.27	3.81	11,576.55	1,805.80	285.84		3,156.18	514.51	500.22	428.78				
118+06.65	TO	3+25.00	RT	280.39	12.0	373.85	0.14	420.59	69.23	10.38		114.67	18.69	18.17	15.58				
3+25.00	TO	4+85.00	RT	140.00	11.0 (Avg.)	171.11	0.08	194.44	31.88	5.19		52.72	8.58	8.32	7.13				
4+85.00	TO	5+75.00	RT	110.00	10.0	122.22	0.05	140.58	23.09	4.07		37.85	6.11	5.94	5.09				
5+75.00	TO																		
EASTBOUND I.R. 90 SHOULDERS TOTALS CARRIED TO SHEET 76						28.55	87,116.58	14,277.37	2,904.74			23,169.93	3,702.26	3,599.42	3,065.22				

I.R. 90 MAINLINE SHOULDERS
ASPHALT CONCRETE CALCULATIONS
(ALTERNATE A)

LAK-90-21.40
ATB-90-0.00

CALCULATED
C.Y.
CHECKED

Westbound I.R. 90 Asphalt Concrete Shoulder Pavement Calculations																			
STATION	SIDE	LENGTH	PAVEMENT WIDTH	PAVEMENT AREA	204	208	304	817			302	407	442						
					PROOF ROLLING	CEMENT STABILIZED SUBGRADE, 12" DEEP	6" AGGREGATE BASE	COMPACTED AGGREGATE, AS PER PLAN A			10.5" ASPHALT CONCRETE BASE	TACK COAT FOR INTERMEDIATE COURSE @ 0.050 GAL/SY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 8MM, TYPE A (448)	1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN					
	LT/RT/MED	FT	FT	SQ YD	HOUR	SQ YD	CU YD	CU YD			CU YD	GALLON	CU YD	CU YD					
I.R. 90 WESTBOUND LANES																			
724+50.00 TO 757+33.89	MED	3,283.89	5.0	1,824.44	0.77	2,371.77	385.16	121.63			598.01	81.22	88.88	76.02					
757+33.89 TO 758+31.28	MED	97.27	MEDIAN U-TURN OPENING																
758+31.28 TO 780+31.28	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
780+31.28 TO 795+38.89	MED	3,507.73	5.0	1,848.74	0.82	2,533.36	411.40	129.92			638.75	97.44	94.73	81.20					
795+38.89 TO 796+36.25	MED	97.28	MEDIAN U-TURN OPENING																
796+36.25 TO 798+36.25	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
798+36.25 TO 801+10.00	MED	273.75	5.0	152.08	0.08	197.71	32.11	10.14			49.85	7.80	7.39	6.34					
801+10.00 TO 813+00.00	MED	1,190.00	13.5 (Avg.)	1,785.00	0.65	1,983.33	328.88	44.07			544.50	89.25	88.77	74.38					
813+00.00 TO 832+84.08	MED	1,894.08	SUSPEND PROJECT STA. 813+00.00																
832+88.70 TO 855+50.00	MED	2,253.30	RESUME PROJECT STA. 855+50.00																
855+50.00 TO 858+75.00	MED	425.00	13.5 (Avg.)	637.50	0.23	708.33	116.74	15.74			184.48	31.88	30.89	26.58					
858+75.00 TO 881+14.00	MED	2,139.00	5.0	1,168.33	0.50	1,544.83	250.87	79.22			389.51	59.42	57.77	49.51					
881+14.00 TO 882+11.32	MED	97.32	MEDIAN U-TURN OPENING																
882+11.32 TO 884+11.32	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
884+11.32 TO 891+19.87	MED	738.35	5.0	410.19	0.17	533.25	88.80	27.35			134.45	20.51	19.84	17.09					
891+19.87 TO 907+50.00	MED	9,182.81	5.0	5,080.51	2.15	8,617.88	1,074.88	339.37			1,868.55	254.53	247.46	212.10					
907+50.00 TO 1018+12.81	MED	97.32	MEDIAN U-TURN OPENING																
1018+12.81 TO 1020+10.23	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
1020+10.23 TO 1022+10.23	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
1022+10.23 TO 1052+73.22	MED	3,082.89	5.0	1,701.88	0.72	2,292.16	358.24	113.44			557.77	85.08	82.72	70.80					
1052+73.22 TO 0+0.00	MED	3,214.01	5.0	1,785.58	0.75	2,321.23	378.95	119.04			585.27	89.28	86.80	74.40					
0+0.00 TO 32+14.01	MED	97.38	MEDIAN U-TURN OPENING																
32+14.01 TO 33+11.39	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
33+11.39 TO 35+11.39	MED	200.00	8.5 (Avg.)	188.89	0.07	222.22	36.42	7.41			59.10	9.44	9.16	7.87					
35+11.39 TO 41+87.57	MED	676.18	5.0	375.88	0.16	488.35	79.31	25.04			123.13	18.78	18.28	15.85					
41+88.85 TO 117+04.00	MED	7,515.05	5.0	4,175.03	1.78	5,427.54	881.39	278.34			1,368.48	208.75	202.85	173.98					
117+04.00 TO 118+01.25	MED	97.25	MEDIAN U-TURN OPENING																
118+01.25 TO 119+08.85	MED	105.40	12.1 (Avg.)	141.53	0.05	159.10	26.19	3.80			43.39	7.08	6.88	5.80					
119+08.85 TO 0+44.61	MED	530.39	13.8 (Avg.)	800.59	0.29	888.99	148.53	19.84			244.15	40.03	38.92	33.38					
0+44.61 TO 724+50.00					0.00														
724+50.00 TO 728+00.00	LT	150.00	11.0 (Avg.)	183.33	0.07	208.33	34.28	5.58			58.48	9.17	8.91	7.84					
728+00.00 TO 811+80.00	LT	8,580.00	12.0	11,413.33	4.23	12,840.00	2,113.58	317.04			3,500.82	570.87	554.81	475.58					
811+80.00 TO 813+00.00	LT	140.00	11.0 (Avg.)	171.11	0.08	184.44	31.98	5.19			52.72	8.58	8.32	7.13					
813+00.00 TO 832+84.08	LT	1,984.08	SUSPEND PROJECT STA. 813+00.00																
832+88.70 TO 855+50.00	LT	2,253.30	RESUME PROJECT STA. 855+50.00																
855+50.00 TO 857+50.00	LT	200.00	11.0 (Avg.)	244.44	0.09	277.78	45.88	7.41			75.31	12.22	11.88	10.19					
857+50.00 TO 891+19.87	LT	3,389.87	12.0	4,532.89	1.88	5,089.51	839.42	125.91			1,380.30	228.84	220.35	188.87					
891+19.87 TO 1028+07.24	LT	10,167.24	12.0	13,542.99	5.02	15,235.88	2,507.98	378.19			4,153.81	677.15	658.34	584.29					
1028+07.24 TO 1031+07.24	LT	200.00	10.0 (Avg.)	222.22	0.08	255.58	41.88	7.41			68.83	11.11	10.80	9.28					
1031+07.24 TO 1038+57.24	LT	750.00	8.0	606.87	0.28	791.87	129.83	27.78			208.49	33.33	32.41	27.78					
1038+57.24 TO 0+0.00	LT (RAMP J)	443.51	8.0	384.23	0.15	468.15	76.88	16.43			123.88	19.71	19.16	16.43					
0+0.00 TO 1043+01.34	LT	971.88	12.0	1,285.84	0.48	1,457.82	239.87	38.00			387.45	64.79	62.99	53.99					
1043+01.34 TO 0+0.00	LT	376.44	12.0	501.82	0.19	584.86	82.95	13.84			153.85	25.10	24.40	20.91					
0+0.00 TO 7+04.88	LT (RAMP J)	381.11	8.0	338.78	0.13	402.28	65.87	14.12			106.45	18.94	18.47	14.12					
7+04.88 TO 15+00.00	LT	744.11	8.0	601.43	0.28	785.45	128.81	27.58			207.85	33.07	32.15	27.58					
15+00.00 TO 18+00.00	LT	100.00	10.0 (Avg.)	111.11	0.04	127.78	20.89	3.70			34.41	5.58	5.40	4.83					
18+00.00 TO 41+87.57	LT	2,587.57	12.0	3,450.08	1.28	3,881.38	638.81	85.84			1,058.19	172.50	167.71	143.75					
41+88.85 TO 119+08.85	LT	7,717.70	12.0	10,290.27	3.81	11,578.55	1,805.80	285.84			3,158.16	514.51	500.22	428.78					
119+08.85 TO 0+44.61	LT	280.38	12.0	373.85	0.14	420.59	69.23	10.38			114.87	18.88	18.17	15.58					
0+44.61 TO 3+25.00	LT	140.00	11.0 (Avg.)	171.11	0.06	184.44	31.98	5.19			52.72	8.58	8.32	7.13					
3+25.00 TO 4+85.00	LT	140.00	10.0	122.22	0.05	140.58	23.09	4.07			37.85	6.11	5.84	5.09					
4+85.00 TO 0+44.61																			
WESTBOUND I.R. 90 SHOULDERS TOTALS CARRIED TO SHEET 76					27.55	84,021.50	13,774.46	2,749.42			22,386.92	3,582.46	3,482.94	2,985.38					

	LAK-90-21.40 ATB-90-0.00	I.R. 90 MAINLINE ASPHALT CONCRETE PAVEMENT (ALTERNATE A)		CALCULATIONS	C.Y. CHECKED

81 498	LAK-90-21.40 ATB-90-0.00	I.R. 90 & S.R. 528 RAMPS CONCRETE PAVEMENT CALCULATIONS		CALCULATED
				C.Y.

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I.R. 90 EASTBOUND LANES CURVE P.I. STATION 764+45.19														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
726+75.45	852.61	5.00	-0.040	852.81	12.00	0.016	853.00	12.00	-0.016	852.81	-0.040	12.00	852.33	END NORMAL CROWN
727+00.00	852.75	5.00	-0.040	852.95	12.00	0.016	853.15	12.00	-0.008	853.04	-0.040	12.00	852.56	
727+25.00	852.91	5.00	-0.040	853.11	12.00	0.016	853.30	12.00	-0.001	853.29	-0.040	12.00	852.81	
727+50.00	853.06	5.00	-0.040	853.26	12.00	0.016	853.45	12.00	0.007	853.53	-0.040	12.00	853.05	
727+67.55	853.16	5.00	-0.040	853.36	12.00	0.016	853.55	12.00	0.012	853.70	-0.040	12.00	853.22	P.C. STA. 727+67.55
727+75.00	853.21	5.00	-0.040	853.41	12.00	0.016	853.60	12.00	0.015	853.77	-0.040	12.00	853.29	
727+89.45	853.29	5.00	-0.040	853.49	12.00	0.019	853.72	12.00	0.019	853.95	-0.040	12.00	853.47	BEGIN FULL SUPERELEVATION
728+00.00	853.36	5.00	-0.040	853.56	12.00	0.019	853.79	12.00	0.019	854.01	-0.040	12.00	853.53	
728+25.00	853.51	5.00	-0.040	853.71	12.00	0.019	853.94	12.00	0.019	854.17	-0.040	12.00	853.69	
728+50.00	853.66	5.00	-0.040	853.86	12.00	0.019	854.09	12.00	0.019	854.32	-0.040	12.00	853.84	
728+75.00	853.81	5.00	-0.040	854.01	12.00	0.019	854.24	12.00	0.019	854.47	-0.040	12.00	853.99	
729+00.00	853.96	5.00	-0.040	854.16	12.00	0.019	854.39	12.00	0.019	854.62	-0.040	12.00	854.14	
729+25.00	854.11	5.00	-0.040	854.31	12.00	0.019	854.54	12.00	0.019	854.77	-0.040	12.00	854.29	
729+50.00	854.26	5.00	-0.040	854.46	12.00	0.019	854.69	12.00	0.019	854.92	-0.040	12.00	854.44	
729+75.00	854.42	5.00	-0.040	854.62	12.00	0.019	854.84	12.00	0.019	855.07	-0.040	12.00	854.59	
730+00.00	854.57	5.00	-0.040	854.77	12.00	0.019	854.99	12.00	0.019	855.22	-0.040	12.00	854.74	
730+25.00	854.72	5.00	-0.040	854.92	12.00	0.019	855.15	12.00	0.019	855.37	-0.040	12.00	854.89	
730+50.00	854.87	5.00	-0.040	855.07	12.00	0.019	855.30	12.00	0.019	855.52	-0.040	12.00	855.04	
730+75.00	855.02	5.00	-0.040	855.22	12.00	0.019	855.45	12.00	0.019	855.68	-0.040	12.00	855.20	
731+00.00	855.17	5.00	-0.040	855.37	12.00	0.019	855.60	12.00	0.019	855.83	-0.040	12.00	855.35	
731+25.00	855.32	5.00	-0.040	855.52	12.00	0.019	855.75	12.00	0.019	855.98	-0.040	12.00	855.50	
731+50.00	855.47	5.00	-0.040	855.67	12.00	0.019	855.90	12.00	0.019	856.13	-0.040	12.00	855.65	
731+75.00	855.62	5.00	-0.040	855.82	12.00	0.019	856.05	12.00	0.019	856.28	-0.040	12.00	855.80	
732+00.00	855.78	5.00	-0.040	855.98	12.00	0.019	856.20	12.00	0.019	856.43	-0.040	12.00	855.95	
732+25.00	855.93	5.00	-0.040	856.13	12.00	0.019	856.35	12.00	0.019	856.58	-0.040	12.00	856.10	
732+50.00	856.08	5.00	-0.040	856.28	12.00	0.019	856.51	12.00	0.019	856.73	-0.040	12.00	856.25	
732+75.00	856.23	5.00	-0.040	856.43	12.00	0.019	856.66	12.00	0.019	856.88	-0.040	12.00	856.40	
733+00.00	856.38	5.00	-0.040	856.58	12.00	0.019	856.81	12.00	0.019	857.04	-0.040	12.00	856.56	
733+25.00	856.53	5.00	-0.040	856.73	12.00	0.019	856.96	12.00	0.019	857.19	-0.040	12.00	856.71	
733+50.00	856.68	5.00	-0.040	856.88	12.00	0.019	857.11	12.00	0.019	857.34	-0.040	12.00	856.86	
733+75.00	856.83	5.00	-0.040	857.03	12.00	0.019	857.26	12.00	0.019	857.49	-0.040	12.00	857.01	
734+00.00	856.98	5.00	-0.040	857.18	12.00	0.019	857.41	12.00	0.019	857.64	-0.040	12.00	857.16	
734+25.00	857.13	5.00	-0.040	857.33	12.00	0.019	857.56	12.00	0.019	857.79	-0.040	12.00	857.31	
734+50.00	857.29	5.00	-0.040	857.49	12.00	0.019	857.71	12.00	0.019	857.94	-0.040	12.00	857.46	
734+75.00	857.44	5.00	-0.040	857.64	12.00	0.019	857.86	12.00	0.019	858.09	-0.040	12.00	857.61	
735+00.00	857.59	5.00	-0.040	857.79	12.00	0.019	858.02	12.00	0.019	858.24	-0.040	12.00	857.76	
735+25.00	857.73	5.00	-0.040	857.93	12.00	0.019	858.16	12.00	0.019	858.39	-0.040	12.00	857.91	
735+50.00	857.87	5.00	-0.040	858.07	12.00	0.019	858.30	12.00	0.019	858.53	-0.040	12.00	858.05	
735+75.00	858.00	5.00	-0.040	858.20	12.00	0.019	858.43	12.00	0.019	858.66	-0.040	12.00	858.18	
736+00.00	858.11	5.00	-0.040	858.31	12.00	0.019	858.54	12.00	0.019	858.77	-0.040	12.00	858.29	
736+25.00	858.22	5.00	-0.040	858.42	12.00	0.019	858.65	12.00	0.019	858.88	-0.040	12.00	858.40	
736+50.00	858.32	5.00	-0.040	858.52	12.00	0.019	858.75	12.00	0.019	858.98	-0.040	12.00	858.50	
736+75.00	858.41	5.00	-0.040	858.61	12.00	0.019	858.84	12.00	0.019	859.07	-0.040	12.00	858.59	
737+00.00	858.49	5.00	-0.040	858.69	12.00	0.019	858.92	12.00	0.019	859.15	-0.040	12.00	858.67	
737+25.00	858.56	5.00	-0.040	858.76	12.00	0.019	858.99	12.00	0.019	859.22	-0.040	12.00	858.74	
737+50.00	858.62	5.00	-0.040	858.82	12.00	0.019	859.05	12.00	0.019	859.28	-0.040	12.00	858.80	
737+75.00	858.67	5.00	-0.040	858.87	12.00	0.019	859.10	12.00	0.019	859.33	-0.040	12.00	858.85	
738+00.00	858.71	5.00	-0.040	858.91	12.00	0.019	859.14	12.00	0.019	859.37	-0.040	12.00	858.89	
738+25.00	858.74	5.00	-0.040	858.94	12.00	0.019	859.17	12.00	0.019	859.40	-0.040	12.00	858.92	
738+50.00	858.76	5.00	-0.040	858.96	12.00	0.019	859.19	12.00	0.019	859.42	-0.040	12.00	858.94	
738+75.00	858.77	5.00	-0.040	858.97	12.00	0.019	859.20	12.00	0.019	859.43	-0.040	12.00	858.95	
739+00.00	858.77	5.00	-0.040	858.97	12.00	0.019	859.20	12.00	0.019	859.43	-0.040	12.00	858.95	
739+25.00	858.76	5.00	-0.040	858.96	12.00	0.019	859.19	12.00	0.019	859.42	-0.040	12.00	858.94	
739+50.00	858.74	5.00	-0.040	858.94	12.00	0.019	859.17	12.00	0.019	859.40	-0.040	12.00	858.92	
739+75.00	858.72	5.00	-0.040	858.92	12.00	0.019	859.15	12.00	0.019	859.38	-0.040	12.00	858.90	
740+00.00	858.68	5.00	-0.040	858.88	12.00	0.019	859.11	12.00	0.019	859.34	-0.040	12.00	858.86	
740+25.00	858.63	5.00	-0.040	858.83	12.00	0.019	859.06	12.00	0.019	859.29	-0.040	12.00	858.81	
740+50.00	858.57	5.00	-0.040	858.77	12.00	0.019	859.00	12.00	0.019	859.23	-0.040	12.00	858.75	
740+75.00	858.51	5.00	-0.040	858.71	12.00	0.019	858.94	12.00	0.019	859.17	-0.040	12.00	858.69	
741+00.00	858.43	5.00	-0.040	858.63	12.00	0.019	858.86	12.00	0.019	859.09	-0.040	12.00	858.61	
741+25.00	858.35	5.00	-0.040	858.55	12.00	0.019	858.78	12.00	0.019	859.01	-0.040	12.00	858.53	
741+50.00	858.27	5.00	-0.040	858.47	12.00	0.019	858.70	12.00	0.019	858.93	-0.040	12.00	858.45	
741+75.00	858.19	5.00	-0.040	858.39	12.00	0.019	858.62	12.00	0.019	858.85	-0.040	12.00	858.37	
742+00.00	858.10	5.00	-0.040	858.30	12.00	0.019	858.53	12.00	0.019	858.76	-0.040	12.00	858.28	
742+25.00	858.03	5.00	-0.040	858.23	12.00	0.019	858.46	12.00	0.019	858.69	-0.040	12.00	858.21	
742+50.00	857.95	5.00	-0.040	858.15	12.00	0.019	858.38	12.00	0.019	858.61	-0.040	12.00	858.13	
742+75.00	857.87	5.00	-0.040	858.07	12.00	0.019	858.30	12.00	0.019	858.53	-0.040	12.00	858.05	
743+00.00	857.79	5.00	-0.040	857.99	12.00	0.019	858.22	12.00	0.019	858.45	-0.040	12.00	857.97	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 764+45.19														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
743+25.00	857.71	5.00	-0.040	857.91	12.00	0.019	858.14	12.00	0.019	858.37	-0.040	12.00	857.89	
743+50.00	857.63	5.00	-0.040	857.83	12.00	0.019	858.06	12.00	0.019	858.29	-0.040	12.00	857.81	
743+75.00	857.55	5.00	-0.040	857.75	12.00	0.019	857.98	12.00	0.019	858.21	-0.040	12.00	857.73	
744+00.00	857.47	5.00	-0.040	857.67	12.00	0.019	857.90	12.00	0.019	858.13	-0.040	12.00	857.65	
744+25.00	857.38	5.00	-0.040	857.58	12.00	0.019	857.81	12.00	0.019	858.04	-0.040	12.00	857.56	
744+50.00	857.30	5.00	-0.040	857.50	12.00	0.019	857.73	12.00	0.019	857.96	-0.040	12.00	857.48	
744+75.00	857.22	5.00	-0.040	857.42	12.00	0.019	857.65	12.00	0.019	857.88	-0.040	12.00	857.40	
745+00.00	857.14	5.00	-0.040	857.34	12.00	0.019	857.57	12.00	0.019	857.80	-0.040	12.00	857.32	
745+25.00	857.06	5.00	-0.040	857.26	12.00	0.019	857.49	12.00	0.019	857.72	-0.040	12.00	857.24	
745+50.00	856.98	5.00	-0.040	857.18	12.00	0.019	857.41	12.00	0.019	857.64	-0.040	12.00	857.16	
745+75.00	856.90	5.00	-0.040	857.10	12.00	0.019	857.33	12.00	0.019	857.56	-0.040	12.00	857.08	
746+00.00	856.82	5.00	-0.040	857.02	12.00	0.019	857.25	12.00	0.019	857.48	-0.040	12.00	857.00	
746+25.00	856.74	5.00	-0.040	856.94	12.00	0.019	857.17	12.00	0.019	857.40	-0.040	12.00	856.92	
746+50.00	856.66	5.00	-0.040	856.86	12.00	0.019	857.09	12.00	0.019	857.32	-0.040	12.00	856.84	
746+75.00	856.58	5.00	-0.040	856.78	12.00	0.019	857.01	12.00	0.019	857.24	-0.040	12.00	856.76	
747+00.00	856.50	5.00	-0.040	856.70	12.00	0.019	856.93	12.00	0.019	857.16	-0.040	12.00	856.68	
747+25.00	856.42	5.00	-0.040	856.62	12.00	0.019	856.85	12.00	0.019	857.08	-0.040	12.00	856.60	
747+50.00	856.34	5.00	-0.040	856.54	12.00	0.019	856.77	12.00	0.019	857.00	-0.040	12.00	856.52	
747+75.00	856.26	5.00	-0.040	856.46	12.00	0.019	856.69	12.00	0.019	856.92	-0.040	12.00	856.44	
748+00.00	856.18	5.00	-0.040	856.38	12.00	0.019	856.61	12.00	0.019	856.84	-0.040	12.00	856.36	
748+25.00	856.09	5.00	-0.040	856.29	12.00	0.019	856.52	12.00	0.019	856.75	-0.040	12.00	856.27	
748+50.00	856.01	5.00	-0.040	856.21	12.00	0.019	856.44	12.00	0.019	856.67	-0.040	12.00	856.19	
748+75.00	855.93	5.00	-0.040	856.13	12.00	0.019	856.36	12.00	0.019	856.59	-0.040	12.00	856.11	
749+00.00	855.85	5.00	-0.040	856.05	12.00	0.019	856.28	12.00	0.019	856.51	-0.040	12.00	856.03	
749+25.00	855.77	5.00	-0.040	855.97	12.00	0.019	856.20	12.00	0.019	856.43	-0.040	12.00	855.95	
749+50.00	855.69	5.00	-0.040	855.89	12.00	0.019	856.12	12.00	0.019	856.35	-0.040	12.00	855.87	
749+75.00	855.61	5.00	-0.040	855.81	12.00	0.019	856.04	12.00	0.019	856.27	-0.040	12.00	855.79	
750+00.00	855.53	5.00	-0.040	855.73	12.00	0.019	855.96	12.00	0.019	856.19	-0.040	12.00	855.71	
750+25.00	855.45	5.00	-0.040	855.65	12.00	0.019	855.88	12.00	0.019	856.11	-0.040	12.00	855.63	
750+50.00	855.37	5.00	-0.040	855.57	12.00	0.019	855.80	12.00	0.019	856.03	-0.040	12.00	855.55	
750+75.00	855.29	5.00	-0.040	855.49	12.00	0.019	855.72	12.00	0.019	855.95	-0.040	12.00	855.47	
751+00.00	855.21	5.00	-0.040	855.41	12.00	0.019	855.64	12.00	0.019	855.87	-0.040	12.00	855.39	
751+25.00	855.13	5.00	-0.040	855.33	12.00	0.019	855.56	12.00	0.019	855.79	-0.040	12.00	855.31	
751+50.00	855.05	5.00	-0.040	855.25	12.00	0.019	855.48	12.00	0.019	855.71	-0.040	12.00	855.23	
751+75.00	854.97	5.00	-0.040	855.17	12.00	0.019	855.40	12.00	0.019	855.63	-0.040	12.00	855.15	
752+00.00	854.89	5.00	-0.040	855.09	12.00	0.019	855.32	12.00	0.019	855.55	-0.040	12.00	855.07	
752+25.00	854.80	5.00	-0.040	855.00	12.00	0.019	855.23	12.00	0.019	855.46	-0.040	12.00	854.98	
752+50.00	854.72	5.00	-0.040	854.92	12.00	0.019	855.15	12.00	0.019	855.38	-0.040	12.00	854.90	
752+75.00	854.64	5.00	-0.040	854.84	12.00	0.019	855.07	12.00	0.019	855.30	-0.040	12.00	854.82	
753+00.00	854.56	5.00	-0.040	854.76	12.00	0.019	854.99	12.00	0.019	855.22	-0.040	12.00	854.74	
753+25.00	854.49	5.00	-0.040	854.69	12.00	0.019	854.92	12.00	0.019	855.15	-0.040	12.00	854.67	
753+50.00	854.44	5.00	-0.040	854.64	12.00	0.019	854.87	12.00	0.019	855.10	-0.040	12.00	854.62	
753+75.00	854.41	5.00	-0.040	854.61	12.00	0.019	854.84	12.00	0.019	855.07	-0.040	12.00	854.59	
754+00.00	854.39	5.00	-0.040	854.59	12.00	0.019	854.82	12.00	0.019	855.05	-0.040	12.00	854.57	
754+25.00	854.40	5.00	-0.040	854.60	12.00	0.019	854.83	12.00	0.019	855.06	-0.040	12.00	854.58	
754+50.00	854.42	5.00	-0.040	854.62	12.00	0.019	854.85	12.00	0.019	855.08	-0.040	12.00	854.60	
754+75.00	854.47	5.00	-0.040	854.67	12.00	0.019	854.90	12.00	0.019	855.13	-0.040	12.00	854.65	
755+00.00	854.53	5.00	-0.040	854.73	12.00	0.019	854.96	12.00	0.019	855.19	-0.040	12.00	854.71	
755+25.00	854.59	5.57	-0.040	854.81	12.00	0.019	855.04	12.00	0.019	855.27	-0.040	12.00	854.79	
755+50.00	854.62	6.45	-0.040	854.88	12.00	0.019	855.11	12.00	0.019	855.34	-0.040	12.00	854.86	
755+75.00	854.66	7.32	-0.040	854.95	12.00	0.019	855.18	12.00	0.019	855.41	-0.040	12.00	854.93	
756+00.00	854.70	8.20	-0.040	855.03	12.00	0.019	855.26	12.00	0.019	855.49	-0.040	12.00	855.01	
756+25.00	854.74	9.07	-0.040	855.10	12.00	0.019	855.33	12.00	0.019	855.56	-0.040	12.00	855.08	
756+50.00	854.77	9.95	-0.040	855.17	12.00	0.019	855.40	12.00	0.019	855.63	-0.040	12.00	855.15	
756+75.00	854.81	10.82	-0.040	855.24	12.00	0.019	855.47	12.00	0.019	855.70	-0.040	12.00	855.22	MEDIAN U-TURN OPENING STA. 757+70.00
757+00.00	854.85	11.70	-0.040	855.32	12.00	0.019	855.55	12.00	0.019	855.78	-0.040	12.00	855.30	
757+25.00	854.81	14.50	-0.040	855.39	12.00	0.019	855.62	12.00	0.019	855.85	-0.040	12.00	855.37	
757+50.00	854.23	30.74	-0.040	855.46	12.00	0.019	855.69	12.00	0.019	855.92	-0.040	12.00	855.44	
757+75.00	SEE CROSS SECTION		-0.040	855.53	12.00	0.019	855.76	12.00	0.019	855.99	-0.040	12.00	855.51	
758+00.00	855.35	5.73	-0.040	855.58	12.00	0.019	855.81	12.00	0.019	856.04	-0.040	12.00	855.56	
758+25.00	855.40	5.00	-0.040	855.60	12.00	0.019	855.83	12.00	0.019	856.06	-0.040	12.00	855.58	
758+50.00	855.42	5.00	-0.040	855.62	12.00	0.019	855.85	12.00	0.019	856.08	-0.040	12.00	855.60	
758+75.00	855.41	5.00	-0.040	855.61	12.00	0.019	855.84	12.00	0.019	856.07	-0.040	12.00	855.59	
759+00.00	855.39	5.00	-0.040	855.59	12.00	0.019	855.82	12.00	0.019	856.05	-0.040	12.00	855.57	
759+25.00	855.35	5.00	-0.040	855.55	12.00	0.019	855.78	12.00	0.019	856.01	-0.040	12.00	855.53	
759+50.00	855.29	5.00	-0.040	855.49	12.00	0.019	855.72	12.00	0.019	855.95	-0.040	12.00	855.47	
759+75.00	855.21	5.00	-0.040	855.41	12.00	0.019	855.64	12.00	0.019	855.87	-0.040	12.00	855.39	
760+00.00	855.12	5.00	-0.040	855.32	12.00	0.019	855.55	12.00	0.019	855.78	-0.040	12.00	855.30	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 764+45.19														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
760+25.00	855.03	5.00	-0.040	855.23	12.00	0.019	855.46	12.00	0.019	855.69	-0.040	12.00	855.21	
760+50.00	854.98	5.00	-0.040	855.18	12.00	0.019	855.41	12.00	0.019	855.64	-0.040	12.00	855.16	
760+75.00	854.96	5.00	-0.040	855.16	12.00	0.019	855.39	12.00	0.019	855.62	-0.040	12.00	855.14	
761+00.00	854.98	5.00	-0.040	855.18	12.00	0.019	855.41	12.00	0.019	855.64	-0.040	12.00	855.16	
761+25.00	855.03	5.00	-0.040	855.23	12.00	0.019	855.46	12.00	0.019	855.69	-0.040	12.00	855.21	
761+50.00	855.11	5.00	-0.040	855.31	12.00	0.019	855.54	12.00	0.019	855.77	-0.040	12.00	855.29	
761+75.00	855.23	5.00	-0.040	855.43	12.00	0.019	855.66	12.00	0.019	855.89	-0.040	12.00	855.41	
762+00.00	855.38	5.00	-0.040	855.58	12.00	0.019	855.81	12.00	0.019	856.04	-0.040	12.00	855.56	
762+25.00	855.57	5.00	-0.040	855.77	12.00	0.019	856.00	12.00	0.019	856.23	-0.040	12.00	855.75	
762+50.00	855.79	5.00	-0.040	855.99	12.00	0.019	856.22	12.00	0.019	856.45	-0.040	12.00	855.97	
762+75.00	856.05	5.00	-0.040	856.25	12.00	0.019	856.48	12.00	0.019	856.71	-0.040	12.00	856.23	
763+00.00	856.34	5.00	-0.040	856.54	12.00	0.019	856.77	12.00	0.019	857.00	-0.040	12.00	856.52	
763+25.00	856.63	5.00	-0.040	856.83	12.00	0.019	857.06	12.00	0.019	857.29	-0.040	12.00	856.81	
763+50.00	856.91	5.00	-0.040	857.11	12.00	0.019	857.34	12.00	0.019	857.57	-0.040	12.00	857.09	
763+75.00	857.18	5.00	-0.040	857.38	12.00	0.019	857.61	12.00	0.019	857.84	-0.040	12.00	857.36	
764+00.00	857.42	5.00	-0.040	857.62	12.00	0.019	857.85	12.00	0.019	858.08	-0.040	12.00	857.60	
764+25.00	857.65	5.00	-0.040	857.85	12.00	0.019	858.08	12.00	0.019	858.31	-0.040	12.00	857.83	
764+50.00	857.87	5.00	-0.040	858.07	12.00	0.019	858.30	12.00	0.019	858.53	-0.040	12.00	858.05	
764+75.00	858.06	5.00	-0.040	858.26	12.00	0.019	858.49	12.00	0.019	858.72	-0.040	12.00	858.24	
765+00.00	858.24	5.00	-0.040	858.44	12.00	0.019	858.67	12.00	0.019	858.90	-0.040	12.00	858.42	
765+25.00	858.41	5.00	-0.040	858.61	12.00	0.019	858.84	12.00	0.019	859.07	-0.040	12.00	858.59	
765+50.00	858.55	5.00	-0.040	858.75	12.00	0.019	858.98	12.00	0.019	859.21	-0.040	12.00	858.73	
765+75.00	858.68	5.00	-0.040	858.88	12.00	0.019	859.11	12.00	0.019	859.34	-0.040	12.00	858.86	
766+00.00	858.79	5.00	-0.040	858.99	12.00	0.019	859.22	12.00	0.019	859.45	-0.040	12.00	858.97	
766+25.00	858.90	5.00	-0.040	859.10	12.00	0.019	859.33	12.00	0.019	859.56	-0.040	12.00	859.08	
766+50.00	859.00	5.00	-0.040	859.20	12.00	0.019	859.43	12.00	0.019	859.66	-0.040	12.00	859.18	
766+75.00	859.11	5.00	-0.040	859.31	12.00	0.019	859.54	12.00	0.019	859.77	-0.040	12.00	859.29	
767+00.00	859.21	5.00	-0.040	859.41	12.00	0.019	859.64	12.00	0.019	859.87	-0.040	12.00	859.39	
767+25.00	859.31	5.00	-0.040	859.51	12.00	0.019	859.74	12.00	0.019	859.97	-0.040	12.00	859.49	
767+50.00	859.42	5.00	-0.040	859.62	12.00	0.019	859.85	12.00	0.019	860.08	-0.040	12.00	859.60	
767+75.00	859.52	5.00	-0.040	859.72	12.00	0.019	859.95	12.00	0.019	860.18	-0.040	12.00	859.70	
768+00.00	859.63	5.00	-0.040	859.83	12.00	0.019	860.06	12.00	0.019	860.29	-0.040	12.00	859.81	
768+25.00	859.73	5.00	-0.040	859.93	12.00	0.019	860.16	12.00	0.019	860.39	-0.040	12.00	859.91	
768+50.00	859.83	5.00	-0.040	860.03	12.00	0.019	860.26	12.00	0.019	860.49	-0.040	12.00	860.01	
768+75.00	859.94	5.00	-0.040	860.14	12.00	0.019	860.37	12.00	0.019	860.60	-0.040	12.00	860.12	
769+00.00	860.04	5.00	-0.040	860.24	12.00	0.019	860.47	12.00	0.019	860.70	-0.040	12.00	860.22	
769+25.00	860.15	5.00	-0.040	860.35	12.00	0.019	860.58	12.00	0.019	860.81	-0.040	12.00	860.33	
769+50.00	860.25	5.00	-0.040	860.45	12.00	0.019	860.68	12.00	0.019	860.91	-0.040	12.00	860.43	
769+75.00	860.35	5.00	-0.040	860.55	12.00	0.019	860.78	12.00	0.019	861.01	-0.040	12.00	860.53	
770+00.00	860.46	5.00	-0.040	860.66	12.00	0.019	860.89	12.00	0.019	861.12	-0.040	12.00	860.64	
770+25.00	860.56	5.00	-0.040	860.76	12.00	0.019	860.99	12.00	0.019	861.22	-0.040	12.00	860.74	
770+50.00	860.67	5.00	-0.040	860.87	12.00	0.019	861.10	12.00	0.019	861.33	-0.040	12.00	860.85	
770+75.00	860.77	5.00	-0.040	860.97	12.00	0.019	861.20	12.00	0.019	861.43	-0.040	12.00	860.95	
771+00.00	860.87	5.00	-0.040	861.07	12.00	0.019	861.30	12.00	0.019	861.53	-0.040	12.00	861.05	
771+25.00	860.98	5.00	-0.040	861.18	12.00	0.019	861.41	12.00	0.019	861.64	-0.040	12.00	861.16	
771+50.00	861.08	5.00	-0.040	861.28	12.00	0.019	861.51	12.00	0.019	861.74	-0.040	12.00	861.26	
771+75.00	861.19	5.00	-0.040	861.39	12.00	0.019	861.62	12.00	0.019	861.85	-0.040	12.00	861.37	
772+00.00	861.29	5.00	-0.040	861.49	12.00	0.019	861.72	12.00	0.019	861.95	-0.040	12.00	861.47	
772+25.00	861.39	5.00	-0.040	861.59	12.00	0.019	861.82	12.00	0.019	862.05	-0.040	12.00	861.57	
772+50.00	861.50	5.00	-0.040	861.70	12.00	0.019	861.93	12.00	0.019	862.16	-0.040	12.00	861.68	
772+75.00	861.60	5.00	-0.040	861.80	12.00	0.019	862.03	12.00	0.019	862.26	-0.040	12.00	861.78	
773+00.00	861.70	5.00	-0.040	861.90	12.00	0.019	862.13	12.00	0.019	862.36	-0.040	12.00	861.88	
773+25.00	861.81	5.00	-0.040	862.01	12.00	0.019	862.24	12.00	0.019	862.47	-0.040	12.00	861.99	
773+50.00	861.91	5.00	-0.040	862.11	12.00	0.019	862.34	12.00	0.019	862.57	-0.040	12.00	862.09	
773+75.00	862.02	5.00	-0.040	862.22	12.00	0.019	862.45	12.00	0.019	862.68	-0.040	12.00	862.20	
774+00.00	862.12	5.00	-0.040	862.32	12.00	0.019	862.55	12.00	0.019	862.78	-0.040	12.00	862.30	
774+25.00	862.22	5.00	-0.040	862.42	12.00	0.019	862.65	12.00	0.019	862.88	-0.040	12.00	862.40	
774+50.00	862.33	5.00	-0.040	862.53	12.00	0.019	862.76	12.00	0.019	862.99	-0.040	12.00	862.51	
774+75.00	862.43	5.00	-0.040	862.63	12.00	0.019	862.86	12.00	0.019	863.09	-0.040	12.00	862.61	
775+00.00	862.54	5.00	-0.040	862.74	12.00	0.019	862.97	12.00	0.019	863.20	-0.040	12.00	862.72	
775+25.00	862.64	5.00	-0.040	862.84	12.00	0.019	863.07	12.00	0.019	863.30	-0.040	12.00	862.82	
775+50.00	862.74	5.00	-0.040	862.94	12.00	0.019	863.17	12.00	0.019	863.40	-0.040	12.00	862.92	
775+75.00	862.85	5.00	-0.040	863.05	12.00	0.019	863.28	12.00	0.019	863.51	-0.040	12.00	863.03	
776+00.00	862.95	5.00	-0.040	863.15	12.00	0.019	863.38	12.00	0.019	863.61	-0.040	12.00	863.13	
776+25.00	863.05	5.00	-0.040	863.25	12.00	0.019	863.48	12.00	0.019	863.71	-0.040	12.00	863.23	
776+50.00	863.13	5.00	-0.040	863.33	12.00	0.019	863.56	12.00	0.019	863.79	-0.040	12.00	863.31	
776+75.00	863.19	5.00	-0.040	863.39	12.00	0.019	863.62	12.00	0.019	863.85	-0.040	12.00	863.37	
777+00.00	863.23	5.00	-0.040	863.43	12.00	0.019	863.66	12.00	0.019	863.89	-0.040	12.00	863.41	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 764+45.19														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
777+25.00	863.25	5.00	-0.040	863.45	12.00	0.019	863.68	12.00	0.019	863.91	-0.040	12.00	863.43	
777+50.00	863.26	5.00	-0.040	863.46	12.00	0.019	863.69	12.00	0.019	863.92	-0.040	12.00	863.44	
777+75.00	863.25	5.00	-0.040	863.45	12.00	0.019	863.68	12.00	0.019	863.91	-0.040	12.00	863.43	
778+00.00	863.23	5.00	-0.040	863.43	12.00	0.019	863.66	12.00	0.019	863.89	-0.040	12.00	863.41	
778+25.00	863.18	5.00	-0.040	863.38	12.00	0.019	863.61	12.00	0.019	863.84	-0.040	12.00	863.36	
778+50.00	863.12	5.00	-0.040	863.32	12.00	0.019	863.55	12.00	0.019	863.78	-0.040	12.00	863.30	
778+75.00	863.04	5.00	-0.040	863.24	12.00	0.019	863.47	12.00	0.019	863.70	-0.040	12.00	863.22	
779+00.00	862.95	5.00	-0.040	863.15	12.00	0.019	863.38	12.00	0.019	863.61	-0.040	12.00	863.13	
779+25.00	862.83	5.00	-0.040	863.03	12.00	0.019	863.26	12.00	0.019	863.49	-0.040	12.00	863.01	
779+50.00	862.70	5.00	-0.040	862.90	12.00	0.019	863.13	12.00	0.019	863.36	-0.040	12.00	862.88	
779+75.00	862.55	5.00	-0.040	862.75	12.00	0.019	862.98	12.00	0.019	863.21	-0.040	12.00	862.73	
780+00.00	862.39	5.00	-0.040	862.59	12.00	0.019	862.82	12.00	0.019	863.05	-0.040	12.00	862.57	
780+25.00	862.20	5.00	-0.040	862.40	12.00	0.019	862.63	12.00	0.019	862.86	-0.040	12.00	862.38	
780+50.00	862.00	5.00	-0.040	862.20	12.00	0.019	862.43	12.00	0.019	862.66	-0.040	12.00	862.18	
780+75.00	861.78	5.00	-0.040	861.98	12.00	0.019	862.21	12.00	0.019	862.44	-0.040	12.00	861.96	
781+00.00	861.55	5.00	-0.040	861.75	12.00	0.019	861.98	12.00	0.019	862.21	-0.040	12.00	861.73	
781+25.00	861.29	5.00	-0.040	861.49	12.00	0.019	861.72	12.00	0.019	861.95	-0.040	12.00	861.47	
781+50.00	861.02	5.00	-0.040	861.22	12.00	0.019	861.45	12.00	0.019	861.68	-0.040	12.00	861.20	
781+75.00	860.73	5.00	-0.040	860.93	12.00	0.019	861.16	12.00	0.019	861.39	-0.040	12.00	860.91	
782+00.00	860.43	5.00	-0.040	860.63	12.00	0.019	860.86	12.00	0.019	861.09	-0.040	12.00	860.61	
782+25.00	860.11	5.00	-0.040	860.31	12.00	0.019	860.54	12.00	0.019	860.77	-0.040	12.00	860.29	
782+50.00	859.80	5.00	-0.040	860.00	12.00	0.019	860.23	12.00	0.019	860.46	-0.040	12.00	859.98	
782+75.00	859.49	5.00	-0.040	859.69	12.00	0.019	859.92	12.00	0.019	860.15	-0.040	12.00	859.67	
783+00.00	859.17	5.00	-0.040	859.37	12.00	0.019	859.60	12.00	0.019	859.83	-0.040	12.00	859.35	
783+25.00	858.86	5.00	-0.040	859.06	12.00	0.019	859.29	12.00	0.019	859.52	-0.040	12.00	859.04	
783+50.00	858.54	5.00	-0.040	858.74	12.00	0.019	858.97	12.00	0.019	859.20	-0.040	12.00	858.72	
783+75.00	858.23	5.00	-0.040	858.43	12.00	0.019	858.66	12.00	0.019	858.89	-0.040	12.00	858.41	
784+00.00	857.91	5.00	-0.040	858.11	12.00	0.019	858.34	12.00	0.019	858.57	-0.040	12.00	858.09	
784+25.00	857.60	5.00	-0.040	857.80	12.00	0.019	858.03	12.00	0.019	858.26	-0.040	12.00	857.78	
784+50.00	857.29	5.00	-0.040	857.49	12.00	0.019	857.72	12.00	0.019	857.95	-0.040	12.00	857.47	
784+75.00	856.97	5.00	-0.040	857.17	12.00	0.019	857.40	12.00	0.019	857.63	-0.040	12.00	857.15	
785+00.00	856.66	5.00	-0.040	856.86	12.00	0.019	857.09	12.00	0.019	857.32	-0.040	12.00	856.84	
785+25.00	856.34	5.00	-0.040	856.54	12.00	0.019	856.77	12.00	0.019	857.00	-0.040	12.00	856.52	
785+50.00	856.03	5.00	-0.040	856.23	12.00	0.019	856.46	12.00	0.019	856.69	-0.040	12.00	856.21	
785+75.00	855.71	5.00	-0.040	855.91	12.00	0.019	856.14	12.00	0.019	856.37	-0.040	12.00	855.89	
786+00.00	855.40	5.00	-0.040	855.60	12.00	0.019	855.83	12.00	0.019	856.06	-0.040	12.00	855.58	
786+25.00	855.09	5.00	-0.040	855.29	12.00	0.019	855.52	12.00	0.019	855.75	-0.040	12.00	855.27	
786+50.00	854.77	5.00	-0.040	854.97	12.00	0.019	855.20	12.00	0.019	855.43	-0.040	12.00	854.95	
786+75.00	854.46	5.00	-0.040	854.66	12.00	0.019	854.89	12.00	0.019	855.12	-0.040	12.00	854.64	
787+00.00	854.14	5.00	-0.040	854.34	12.00	0.019	854.57	12.00	0.019	854.80	-0.040	12.00	854.32	
787+25.00	853.83	5.00	-0.040	854.03	12.00	0.019	854.26	12.00	0.019	854.49	-0.040	12.00	854.01	
787+50.00	853.51	5.00	-0.040	853.71	12.00	0.019	853.94	12.00	0.019	854.17	-0.040	12.00	853.69	
787+75.00	853.20	5.00	-0.040	853.40	12.00	0.019	853.63	12.00	0.019	853.86	-0.040	12.00	853.38	
788+00.00	852.89	5.00	-0.040	853.09	12.00	0.019	853.32	12.00	0.019	853.55	-0.040	12.00	853.07	
788+25.00	852.57	5.00	-0.040	852.77	12.00	0.019	853.00	12.00	0.019	853.23	-0.040	12.00	852.75	
788+50.00	852.26	5.00	-0.040	852.46	12.00	0.019	852.69	12.00	0.019	852.92	-0.040	12.00	852.44	
788+75.00	851.94	5.00	-0.040	852.14	12.00	0.019	852.37	12.00	0.019	852.60	-0.040	12.00	852.12	
789+00.00	851.63	5.00	-0.040	851.83	12.00	0.019	852.06	12.00	0.019	852.29	-0.040	12.00	851.81	
789+25.00	851.31	5.00	-0.040	851.51	12.00	0.019	851.74	12.00	0.019	851.97	-0.040	12.00	851.49	
789+50.00	851.00	5.00	-0.040	851.20	12.00	0.019	851.43	12.00	0.019	851.66	-0.040	12.00	851.18	
789+75.00	850.69	5.00	-0.040	850.89	12.00	0.019	851.12	12.00	0.019	851.35	-0.040	12.00	850.87	
790+00.00	850.37	5.00	-0.040	850.57	12.00	0.019	850.80	12.00	0.019	851.03	-0.040	12.00	850.55	
790+25.00	850.06	5.00	-0.040	850.26	12.00	0.019	850.49	12.00	0.019	850.72	-0.040	12.00	850.24	
790+50.00	849.74	5.00	-0.040	849.94	12.00	0.019	850.17	12.00	0.019	850.40	-0.040	12.00	849.92	
790+75.00	849.43	5.00	-0.040	849.63	12.00	0.019	849.86	12.00	0.019	850.09	-0.040	12.00	849.61	
791+00.00	849.11	5.00	-0.040	849.31	12.00	0.019	849.54	12.00	0.019	849.77	-0.040	12.00	849.29	
791+25.00	848.80	5.00	-0.040	849.00	12.00	0.019	849.23	12.00	0.019	849.46	-0.040	12.00	848.98	
791+50.00	848.49	5.00	-0.040	848.69	12.00	0.019	848.92	12.00	0.019	849.15	-0.040	12.00	848.67	
791+75.00	848.17	5.00	-0.040	848.37	12.00	0.019	848.60	12.00	0.019	848.83	-0.040	12.00	848.35	
792+00.00	847.86	5.00	-0.040	848.06	12.00	0.019	848.29	12.00	0.019	848.52	-0.040	12.00	848.04	
792+25.00	847.54	5.00	-0.040	847.74	12.00	0.019	847.97	12.00	0.019	848.20	-0.040	12.00	847.72	
792+50.00	847.23	5.00	-0.040	847.43	12.00	0.019	847.66	12.00	0.019	847.89	-0.040	12.00	847.41	
792+75.00	846.91	5.00	-0.040	847.11	12.00	0.019	847.34	12.00	0.019	847.57	-0.040	12.00	847.09	
793+00.00	846.60	5.00	-0.040	846.80	12.00	0.019	847.03	12.00	0.019	847.26	-0.040	12.00	846.78	
793+25.00	846.27	5.40	-0.040	846.49	12.00	0.019	846.72	12.00	0.019	846.95	-0.040	12.00	846.47	
793+50.00	845.92	6.27	-0.040	846.17	12.00	0.019	846.40	12.00	0.019	846.63	-0.040	12.00	846.15	
793+75.00	845.57	7.15	-0.040	845.86	12.00	0.019	846.09	12.00	0.019	846.32	-0.040	12.00	845.84	
794+00.00	845.22	8.02	-0.040	845.54	12.00	0.019	845.77	12.00	0.019	846.00	-0.040	12.00	845.52	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 764+45.19														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
794+25.00	844.87	8.90	-0.040	845.23	12.00	0.019	845.46	12.00	0.019	845.69	-0.040	12.00	845.21	MEDIAN U-TURN OPENING STA. 795+75.00
794+50.00	844.52	9.77	-0.040	844.91	12.00	0.019	845.14	12.00	0.019	845.37	-0.040	12.00	844.89	
794+75.00	844.17	10.65	-0.040	844.60	12.00	0.019	844.83	12.00	0.019	845.06	-0.040	12.00	844.58	
795+00.00	843.83	11.52	-0.040	844.29	12.00	0.019	844.52	12.00	0.019	844.75	-0.040	12.00	844.27	
795+25.00	843.44	13.19	-0.040	843.97	12.00	0.019	844.20	12.00	0.019	844.43	-0.040	12.00	843.95	
795+50.00	842.63	25.74	-0.040	843.66	12.00	0.019	843.89	12.00	0.019	844.12	-0.040	12.00	843.64	
795+75.00	SEE CROSS SECTION		-0.040	843.34	12.00	0.019	843.57	12.00	0.019	843.80	-0.040	12.00	843.32	
796+00.00	842.73	7.55	-0.040	843.03	12.00	0.019	843.26	12.00	0.019	843.49	-0.040	12.00	843.01	
796+25.00	842.51	5.00	-0.040	842.71	12.00	0.019	842.94	12.00	0.019	843.17	-0.040	12.00	842.69	
796+50.00	842.20	5.00	-0.040	842.40	12.00	0.019	842.63	12.00	0.019	842.86	-0.040	12.00	842.38	
796+75.00	841.89	5.00	-0.040	842.09	12.00	0.019	842.32	12.00	0.019	842.55	-0.040	12.00	842.07	
797+00.00	841.57	5.00	-0.040	841.77	12.00	0.019	842.00	12.00	0.019	842.23	-0.040	12.00	841.75	
797+25.00	841.26	5.00	-0.040	841.46	12.00	0.019	841.69	12.00	0.019	841.92	-0.040	12.00	841.44	
797+50.00	840.94	5.00	-0.040	841.14	12.00	0.019	841.37	12.00	0.019	841.60	-0.040	12.00	841.12	
797+75.00	840.63	5.00	-0.040	840.83	12.00	0.019	841.06	12.00	0.019	841.29	-0.040	12.00	840.81	
798+00.00	840.31	5.00	-0.040	840.51	12.00	0.019	840.74	12.00	0.019	840.97	-0.040	12.00	840.49	
798+25.00	840.00	5.00	-0.040	840.20	12.00	0.019	840.43	12.00	0.019	840.66	-0.040	12.00	840.18	
798+50.00	839.69	5.00	-0.040	839.89	12.00	0.019	840.12	12.00	0.019	840.35	-0.040	12.00	839.87	
798+75.00	839.37	5.00	-0.040	839.57	12.00	0.019	839.80	12.00	0.019	840.03	-0.040	12.00	839.55	
798+92.08	839.16	5.00	-0.040	839.36	12.00	0.019	839.59	12.00	0.019	839.82	-0.040	12.00	839.34	END FULL SUPERELEVATION
799+00.00	839.06	5.00	-0.040	839.26	12.00	0.017	839.46	12.00	0.017	839.66	-0.040	12.00	839.18	
799+13.98	838.88	5.00	-0.040	839.08	12.00	0.016	839.27	12.00	0.012	839.42	-0.040	12.00	838.94	P.T. STA. 799+13.98
799+25.00	838.74	5.00	-0.040	838.94	12.00	0.016	839.13	12.00	0.009	839.24	-0.040	12.00	838.76	
799+50.00	838.43	5.00	-0.040	838.63	12.00	0.016	838.82	12.00	0.001	838.84	-0.040	12.00	838.36	
799+75.00	838.11	5.00	-0.040	838.31	12.00	0.016	838.50	12.00	-0.006	838.42	-0.040	12.00	837.94	
800+00.00	837.80	5.00	-0.040	838.00	12.00	0.016	838.19	12.00	-0.014	838.02	-0.040	12.00	837.54	
800+06.08	837.72	5.00	-0.040	837.92	12.00	0.016	838.11	12.00	-0.016	837.92	-0.040	12.00	837.44	BEGIN NORMAL CROWN

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 764+45.19														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
852.33	12.00	-0.040	852.81	12.00	-0.016	853.00	12.00	0.016	852.81	-0.040	5.00	852.61	726+75.45	END NORMAL CROWN
852.38	12.00	-0.040	852.86	12.00	-0.016	853.05	12.00	0.008	852.95	-0.040	5.00	852.75	727+00.00	
852.45	12.00	-0.040	852.93	12.00	-0.016	853.12	12.00	0.001	853.11	-0.040	5.00	852.91	727+25.00	
852.50	12.00	-0.040	852.98	12.00	-0.016	853.17	12.00	-0.007	853.26	-0.040	5.00	853.06	727+50.00	
852.54	12.00	-0.040	853.02	12.00	-0.016	853.21	12.00	-0.012	853.36	-0.040	5.00	853.16	727+67.55	PC STA. 727+67.55
852.56	12.00	-0.040	853.04	12.00	-0.016	853.23	12.00	-0.015	853.41	-0.040	5.00	853.21	727+75.00	
852.56	12.00	-0.040	853.04	12.00	-0.019	853.27	12.00	-0.019	853.49	-0.040	5.00	853.29	727+89.45	BEGIN FULL SUPERELEVATION
852.62	12.00	-0.040	853.10	12.00	-0.019	853.33	12.00	-0.019	853.56	-0.040	5.00	853.36	728+00.00	
852.77	12.00	-0.040	853.25	12.00	-0.019	853.48	12.00	-0.019	853.71	-0.040	5.00	853.51	728+25.00	
852.92	12.00	-0.040	853.40	12.00	-0.019	853.63	12.00	-0.019	853.86	-0.040	5.00	853.66	728+50.00	
853.08	12.00	-0.040	853.56	12.00	-0.019	853.78	12.00	-0.019	854.01	-0.040	5.00	853.81	728+75.00	
853.23	12.00	-0.040	853.71	12.00	-0.019	853.93	12.00	-0.019	854.16	-0.040	5.00	853.96	729+00.00	
853.38	12.00	-0.040	853.86	12.00	-0.019	854.09	12.00	-0.019	854.31	-0.040	5.00	854.11	729+25.00	
853.53	12.00	-0.040	854.01	12.00	-0.019	854.24	12.00	-0.019	854.46	-0.040	5.00	854.26	729+50.00	
853.68	12.00	-0.040	854.16	12.00	-0.019	854.39	12.00	-0.019	854.62	-0.040	5.00	854.42	729+75.00	
853.83	12.00	-0.040	854.31	12.00	-0.019	854.54	12.00	-0.019	854.77	-0.040	5.00	854.57	730+00.00	
853.98	12.00	-0.040	854.46	12.00	-0.019	854.69	12.00	-0.019	854.92	-0.040	5.00	854.72	730+25.00	
854.13	12.00	-0.040	854.61	12.00	-0.019	854.84	12.00	-0.019	855.07	-0.040	5.00	854.87	730+50.00	
854.28	12.00	-0.040	854.76	12.00	-0.019	854.99	12.00	-0.019	855.22	-0.040	5.00	855.02	730+75.00	
854.43	12.00	-0.040	854.91	12.00	-0.019	855.14	12.00	-0.019	855.37	-0.040	5.00	855.17	731+00.00	
854.59	12.00	-0.040	855.07	12.00	-0.019	855.29	12.00	-0.019	855.52	-0.040	5.00	855.32	731+25.00	
854.74	12.00	-0.040	855.22	12.00	-0.019	855.44	12.00	-0.019	855.67	-0.040	5.00	855.47	731+50.00	
854.89	12.00	-0.040	855.37	12.00	-0.019	855.60	12.00	-0.019	855.82	-0.040	5.00	855.62	731+75.00	
855.04	12.00	-0.040	855.52	12.00	-0.019	855.75	12.00	-0.019	855.98	-0.040	5.00	855.78	732+00.00	
855.19	12.00	-0.040	855.67	12.00	-0.019	855.90	12.00	-0.019	856.13	-0.040	5.00	855.93	732+25.00	
855.34	12.00	-0.040	855.82	12.00	-0.019	856.05	12.00	-0.019	856.28	-0.040	5.00	856.08	732+50.00	
855.49	12.00	-0.040	855.97	12.00	-0.019	856.20	12.00	-0.019	856.43	-0.040	5.00	856.23	732+75.00	
855.64	12.00	-0.040	856.12	12.00	-0.019	856.35	12.00	-0.019	856.58	-0.040	5.00	856.38	733+00.00	
855.79	12.00	-0.040	856.27	12.00	-0.019	856.50	12.00	-0.019	856.73	-0.040	5.00	856.53	733+25.00	
855.95	12.00	-0.040	856.43	12.00	-0.019	856.65	12.00	-0.019	856.88	-0.040	5.00	856.68	733+50.00	
856.10	12.00	-0.040	856.58	12.00	-0.019	856.80	12.00	-0.019	857.03	-0.040	5.00	856.83	733+75.00	
856.25	12.00	-0.040	856.73	12.00	-0.019	856.96	12.00	-0.019	857.18	-0.040	5.00	856.98	734+00.00	
856.40	12.00	-0.040	856.88	12.00	-0.019	857.11	12.00	-0.019	857.33	-0.040	5.00	857.13	734+25.00	
856.55	12.00	-0.040	857.03	12.00	-0.019	857.26	12.00	-0.019	857.49	-0.040	5.00	857.29	734+50.00	
856.70	12.00	-0.040	857.18	12.00	-0.019	857.41	12.00	-0.019	857.64	-0.040	5.00	857.44	734+75.00	
856.85	12.00	-0.040	857.33	12.00	-0.019	857.56	12.00	-0.019	857.79	-0.040	5.00	857.59	735+00.00	
856.99	12.00	-0.040	857.47	12.00	-0.019	857.70	12.00	-0.019	857.93	-0.040	5.00	857.73	735+25.00	
857.13	12.00	-0.040	857.61	12.00	-0.019	857.84	12.00	-0.019	858.07	-0.040	5.00	857.87	735+50.00	
857.26	12.00	-0.040	857.74	12.00	-0.019	857.97	12.00	-0.019	858.20	-0.040	5.00	858.00	735+75.00	
857.37	12.00	-0.040	857.85	12.00	-0.019	858.08	12.00	-0.019	858.31	-0.040	5.00	858.11	736+00.00	
857.48	12.00	-0.040	857.96	12.00	-0.019	858.19	12.00	-0.019	858.42	-0.040	5.00	858.22	736+25.00	
857.58	12.00	-0.040	858.06	12.00	-0.019	858.29	12.00	-0.019	858.52	-0.040	5.00	858.32	736+50.00	
857.67	12.00	-0.040	858.15	12.00	-0.019	858.38	12.00	-0.019	858.61	-0.040	5.00	858.41	736+75.00	
857.75	12.00	-0.040	858.23	12.00	-0.019	858.46	12.00	-0.019	858.69	-0.040	5.00	858.49	737+00.00	
857.82	12.00	-0.040	858.30	12.00	-0.019	858.53	12.00	-0.019	858.76	-0.040	5.00	858.56	737+25.00	
857.88	12.00	-0.040	858.36	12.00	-0.019	858.59	12.00	-0.019	858.82	-0.040	5.00	858.62	737+50.00	
857.93	12.00	-0.040	858.41	12.00	-0.019	858.64	12.00	-0.019	858.87	-0.040	5.00	858.67	737+75.00	
857.97	12.00	-0.040	858.45	12.00	-0.019	858.68	12.00	-0.019	858.91	-0.040	5.00	858.71	738+00.00	
858.00	12.00	-0.040	858.48	12.00	-0.019	858.71	12.00	-0.019	858.94	-0.040	5.00	858.74	738+25.00	
858.02	12.00	-0.040	858.50	12.00	-0.019	858.73	12.00	-0.019	858.96	-0.040	5.00	858.76	738+50.00	
858.03	12.00	-0.040	858.51	12.00	-0.019	858.74	12.00	-0.019	858.97	-0.040	5.00	858.77	738+75.00	
858.03	12.00	-0.040	858.51	12.00	-0.019	858.74	12.00	-0.019	858.97	-0.040	5.00	858.77	739+00.00	
858.02	12.00	-0.040	858.50	12.00	-0.019	858.73	12.00	-0.019	858.96	-0.040	5.00	858.76	739+25.00	
858.00	12.00	-0.040	858.48	12.00	-0.019	858.71	12.00	-0.019	858.94	-0.040	5.00	858.74	739+50.00	
857.98	12.00	-0.040	858.46	12.00	-0.019	858.69	12.00	-0.019	858.92	-0.040	5.00	858.72	739+75.00	
857.94	12.00	-0.040	858.42	12.00	-0.019	858.65	12.00	-0.019	858.88	-0.040	5.00	858.68	740+00.00	
857.89	12.00	-0.040	858.37	12.00	-0.019	858.60	12.00	-0.019	858.83	-0.040	5.00	858.63	740+25.00	
857.83	12.00	-0.040	858.31	12.00	-0.019	858.54	12.00	-0.019	858.77	-0.040	5.00	858.57	740+50.00	
857.77	12.00	-0.040	858.25	12.00	-0.019	858.48	12.00	-0.019	858.71	-0.040	5.00	858.51	740+75.00	
857.69	12.00	-0.040	858.17	12.00	-0.019	858.40	12.00	-0.019	858.63	-0.040	5.00	858.43	741+00.00	
857.61	12.00	-0.040	858.09	12.00	-0.019	858.32	12.00	-0.019	858.55	-0.040	5.00	858.35	741+25.00	
857.53	12.00	-0.040	858.01	12.00	-0.019	858.24	12.00	-0.019	858.47	-0.040	5.00	858.27	741+50.00	
857.45	12.00	-0.040	857.93	12.00	-0.019	858.16	12.00	-0.019	858.39	-0.040	5.00	858.19	741+75.00	
857.37	12.00	-0.040	857.85	12.00	-0.019	858.08	12.00	-0.019	858.31	-0.040	5.00	858.11	742+00.00	
857.29	12.00	-0.040	857.77	12.00	-0.019	858.00	12.00	-0.019	858.23	-0.040	5.00	858.03	742+25.00	
857.21	12.00	-0.040	857.69	12.00	-0.019	857.92	12.00	-0.019	858.15	-0.040	5.00	857.95	742+50.00	
857.13	12.00	-0.040	857.61	12.00	-0.019	857.84	12.00	-0.019	858.07	-0.040	5.00	857.87	742+75.00	
857.05	12.00	-0.040	857.53	12.00	-0.019	857.76	12.00	-0.019	857.99	-0.040	5.00	857.79	743+00.00	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 764+45.19														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
856.97	12.00	-0.040	857.45	12.00	-0.019	857.68	12.00	-0.019	857.91	-0.040	5.00	857.71	743+25.00	
856.89	12.00	-0.040	857.37	12.00	-0.019	857.60	12.00	-0.019	857.83	-0.040	5.00	857.63	743+50.00	
856.81	12.00	-0.040	857.29	12.00	-0.019	857.52	12.00	-0.019	857.75	-0.040	5.00	857.55	743+75.00	
856.73	12.00	-0.040	857.21	12.00	-0.019	857.44	12.00	-0.019	857.67	-0.040	5.00	857.47	744+00.00	
856.64	12.00	-0.040	857.12	12.00	-0.019	857.35	12.00	-0.019	857.58	-0.040	5.00	857.38	744+25.00	
856.56	12.00	-0.040	857.04	12.00	-0.019	857.27	12.00	-0.019	857.50	-0.040	5.00	857.30	744+50.00	
856.48	12.00	-0.040	856.96	12.00	-0.019	857.19	12.00	-0.019	857.42	-0.040	5.00	857.22	744+75.00	
856.40	12.00	-0.040	856.88	12.00	-0.019	857.11	12.00	-0.019	857.34	-0.040	5.00	857.14	745+00.00	
856.32	12.00	-0.040	856.80	12.00	-0.019	857.03	12.00	-0.019	857.26	-0.040	5.00	857.06	745+25.00	
856.24	12.00	-0.040	856.72	12.00	-0.019	856.95	12.00	-0.019	857.18	-0.040	5.00	856.98	745+50.00	
856.16	12.00	-0.040	856.64	12.00	-0.019	856.87	12.00	-0.019	857.10	-0.040	5.00	856.90	745+75.00	
856.08	12.00	-0.040	856.56	12.00	-0.019	856.79	12.00	-0.019	857.02	-0.040	5.00	856.82	746+00.00	
856.00	12.00	-0.040	856.48	12.00	-0.019	856.71	12.00	-0.019	856.94	-0.040	5.00	856.74	746+25.00	
855.92	12.00	-0.040	856.40	12.00	-0.019	856.63	12.00	-0.019	856.86	-0.040	5.00	856.66	746+50.00	
855.84	12.00	-0.040	856.32	12.00	-0.019	856.55	12.00	-0.019	856.78	-0.040	5.00	856.58	746+75.00	
855.76	12.00	-0.040	856.24	12.00	-0.019	856.47	12.00	-0.019	856.70	-0.040	5.00	856.50	747+00.00	
855.68	12.00	-0.040	856.16	12.00	-0.019	856.39	12.00	-0.019	856.62	-0.040	5.00	856.42	747+25.00	
855.60	12.00	-0.040	856.08	12.00	-0.019	856.31	12.00	-0.019	856.54	-0.040	5.00	856.34	747+50.00	
855.52	12.00	-0.040	856.00	12.00	-0.019	856.23	12.00	-0.019	856.46	-0.040	5.00	856.26	747+75.00	
855.44	12.00	-0.040	855.92	12.00	-0.019	856.15	12.00	-0.019	856.38	-0.040	5.00	856.18	748+00.00	
855.35	12.00	-0.040	855.83	12.00	-0.019	856.06	12.00	-0.019	856.29	-0.040	5.00	856.09	748+25.00	
855.27	12.00	-0.040	855.75	12.00	-0.019	855.98	12.00	-0.019	856.21	-0.040	5.00	856.01	748+50.00	
855.19	12.00	-0.040	855.67	12.00	-0.019	855.90	12.00	-0.019	856.13	-0.040	5.00	855.93	748+75.00	
855.11	12.00	-0.040	855.59	12.00	-0.019	855.82	12.00	-0.019	856.05	-0.040	5.00	855.85	749+00.00	
855.03	12.00	-0.040	855.51	12.00	-0.019	855.74	12.00	-0.019	855.97	-0.040	5.00	855.77	749+25.00	
854.95	12.00	-0.040	855.43	12.00	-0.019	855.66	12.00	-0.019	855.89	-0.040	5.00	855.69	749+50.00	
854.87	12.00	-0.040	855.35	12.00	-0.019	855.58	12.00	-0.019	855.81	-0.040	5.00	855.61	749+75.00	
854.79	12.00	-0.040	855.27	12.00	-0.019	855.50	12.00	-0.019	855.73	-0.040	5.00	855.53	750+00.00	
854.71	12.00	-0.040	855.19	12.00	-0.019	855.42	12.00	-0.019	855.65	-0.040	5.00	855.45	750+25.00	
854.63	12.00	-0.040	855.11	12.00	-0.019	855.34	12.00	-0.019	855.57	-0.040	5.00	855.37	750+50.00	
854.55	12.00	-0.040	855.03	12.00	-0.019	855.26	12.00	-0.019	855.49	-0.040	5.00	855.29	750+75.00	
854.47	12.00	-0.040	854.95	12.00	-0.019	855.18	12.00	-0.019	855.41	-0.040	5.00	855.21	751+00.00	
854.39	12.00	-0.040	854.87	12.00	-0.019	855.10	12.00	-0.019	855.33	-0.040	5.00	855.13	751+25.00	
854.31	12.00	-0.040	854.79	12.00	-0.019	855.02	12.00	-0.019	855.25	-0.040	5.00	855.05	751+50.00	
854.23	12.00	-0.040	854.71	12.00	-0.019	854.94	12.00	-0.019	855.17	-0.040	5.00	854.97	751+75.00	
854.15	12.00	-0.040	854.63	12.00	-0.019	854.86	12.00	-0.019	855.09	-0.040	5.00	854.89	752+00.00	
854.06	12.00	-0.040	854.54	12.00	-0.019	854.77	12.00	-0.019	855.00	-0.040	5.00	854.80	752+25.00	
853.98	12.00	-0.040	854.46	12.00	-0.019	854.69	12.00	-0.019	854.92	-0.040	5.00	854.72	752+50.00	
853.90	12.00	-0.040	854.38	12.00	-0.019	854.61	12.00	-0.019	854.84	-0.040	5.00	854.64	752+75.00	
853.82	12.00	-0.040	854.30	12.00	-0.019	854.53	12.00	-0.019	854.76	-0.040	5.00	854.56	753+00.00	
853.74	12.00	-0.040	854.22	12.00	-0.019	854.45	12.00	-0.019	854.68	-0.040	5.00	854.48	753+25.00	
853.65	12.00	-0.040	854.13	12.00	-0.019	854.36	12.00	-0.019	854.59	-0.040	5.00	854.39	753+50.00	
853.53	12.00	-0.040	854.01	12.00	-0.019	854.24	12.00	-0.019	854.47	-0.040	5.00	854.27	753+75.00	
853.41	12.00	-0.040	853.89	12.00	-0.019	854.12	12.00	-0.019	854.35	-0.040	5.00	854.15	754+00.00	
853.29	12.00	-0.040	853.77	12.00	-0.019	854.00	12.00	-0.019	854.23	-0.040	5.00	854.03	754+25.00	
853.14	12.00	-0.040	853.62	12.00	-0.019	853.85	12.00	-0.019	854.08	-0.040	5.00	853.88	754+50.00	
852.98	12.00	-0.040	853.46	12.00	-0.019	853.69	12.00	-0.019	853.92	-0.040	5.00	853.72	754+75.00	
852.82	12.00	-0.040	853.30	12.00	-0.019	853.53	12.00	-0.019	853.76	-0.040	5.00	853.56	755+00.00	
852.67	12.00	-0.040	853.15	12.00	-0.019	853.38	12.00	-0.019	853.61	-0.040	5.00	853.41	755+25.00	
852.54	12.00	-0.040	853.02	12.00	-0.019	853.25	12.00	-0.019	853.48	-0.040	5.00	853.28	755+50.00	
852.45	12.00	-0.040	852.93	12.00	-0.019	853.16	12.00	-0.019	853.39	-0.040	5.00	853.19	755+75.00	
852.39	12.00	-0.040	852.87	12.00	-0.019	853.10	12.00	-0.019	853.33	-0.040	5.00	853.13	756+00.00	
852.35	12.00	-0.040	852.83	12.00	-0.019	853.06	12.00	-0.019	853.29	-0.040	5.00	853.09	756+25.00	
852.35	12.00	-0.040	852.83	12.00	-0.019	853.06	12.00	-0.019	853.29	-0.040	5.00	853.09	756+50.00	
852.38	12.00	-0.040	852.86	12.00	-0.019	853.09	12.00	-0.019	853.32	-0.040	5.00	853.12	756+75.00	
852.45	12.00	-0.040	852.93	12.00	-0.019	853.16	12.00	-0.019	853.39	-0.040	5.00	853.19	757+00.00	
852.54	12.00	-0.040	853.02	12.00	-0.019	853.25	12.00	-0.019	853.48	-0.040	5.00	853.28	757+25.00	
852.66	12.00	-0.040	853.14	12.00	-0.019	853.37	12.00	-0.019	853.60	-0.040	10.77	853.17	757+50.00	
852.81	12.00	-0.040	853.29	12.00	-0.019	853.52	12.00	-0.019	853.75	-0.040	SEE CROSS-SECTION		757+75.00	
853.00	12.00	-0.040	853.48	12.00	-0.019	853.71	12.00	-0.019	853.94	-0.040	21.75	853.07	758+00.00	
853.21	12.00	-0.040	853.69	12.00	-0.019	853.92	12.00	-0.019	854.15	-0.040	12.36	853.66	758+25.00	
853.46	12.00	-0.040	853.94	12.00	-0.019	854.17	12.00	-0.019	854.40	-0.040	11.34	853.95	758+50.00	
853.73	12.00	-0.040	854.21	12.00	-0.019	854.44	12.00	-0.019	854.67	-0.040	10.47	854.25	758+75.00	
854.04	12.00	-0.040	854.52	12.00	-0.019	854.75	12.00	-0.019	854.98	-0.040	9.59	854.60	759+00.00	
854.35	12.00	-0.040	854.83	12.00	-0.019	855.06	12.00	-0.019	855.29	-0.040	8.72	854.94	759+25.00	
854.65	12.00	-0.040	855.13	12.00	-0.019	855.36	12.00	-0.019	855.59	-0.040	7.84	855.28	759+50.00	
854.92	12.00	-0.040	855.40	12.00	-0.019	855.63	12.00	-0.019	855.86	-0.040	6.93	855.58	759+75.00	
855.18	12.00	-0.040	855.66	12.00	-0.019	855.89	12.00	-0.019	856.12	-0.040	6.09	855.88	760+00.00	

MEDIAN U-TURN OPENING STA.
757+70.00

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 764+45.19														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
855.41	12.00	-0.040	855.89	12.00	-0.019	856.12	12.00	-0.019	856.35	-0.040	5.22	856.14	760+25.00	
855.63	12.00	-0.040	856.11	12.00	-0.019	856.34	12.00	-0.019	856.57	-0.040	5.00	856.37	760+50.00	
855.83	12.00	-0.040	856.31	12.00	-0.019	856.54	12.00	-0.019	856.77	-0.040	5.00	856.57	760+75.00	
856.00	12.00	-0.040	856.48	12.00	-0.019	856.71	12.00	-0.019	856.94	-0.040	5.00	856.74	761+00.00	
856.16	12.00	-0.040	856.64	12.00	-0.019	856.87	12.00	-0.019	857.10	-0.040	5.00	856.90	761+25.00	
856.30	12.00	-0.040	856.78	12.00	-0.019	857.01	12.00	-0.019	857.24	-0.040	5.00	857.04	761+50.00	
856.42	12.00	-0.040	856.90	12.00	-0.019	857.13	12.00	-0.019	857.36	-0.040	5.00	857.16	761+75.00	
856.52	12.00	-0.040	857.00	12.00	-0.019	857.23	12.00	-0.019	857.46	-0.040	5.00	857.26	762+00.00	
856.61	12.00	-0.040	857.09	12.00	-0.019	857.32	12.00	-0.019	857.55	-0.040	5.00	857.35	762+25.00	
856.70	12.00	-0.040	857.18	12.00	-0.019	857.41	12.00	-0.019	857.64	-0.040	5.00	857.44	762+50.00	
856.79	12.00	-0.040	857.27	12.00	-0.019	857.50	12.00	-0.019	857.73	-0.040	5.00	857.53	762+75.00	
856.88	12.00	-0.040	857.36	12.00	-0.019	857.59	12.00	-0.019	857.82	-0.040	5.00	857.62	763+00.00	
856.98	12.00	-0.040	857.46	12.00	-0.019	857.69	12.00	-0.019	857.92	-0.040	5.00	857.72	763+25.00	
857.07	12.00	-0.040	857.55	12.00	-0.019	857.78	12.00	-0.019	858.01	-0.040	5.00	857.81	763+50.00	
857.16	12.00	-0.040	857.64	12.00	-0.019	857.87	12.00	-0.019	858.10	-0.040	5.00	857.90	763+75.00	
857.26	12.00	-0.040	857.74	12.00	-0.019	857.97	12.00	-0.019	858.20	-0.040	5.00	858.00	764+00.00	
857.35	12.00	-0.040	857.83	12.00	-0.019	858.06	12.00	-0.019	858.29	-0.040	5.00	858.09	764+25.00	
857.45	12.00	-0.040	857.93	12.00	-0.019	858.16	12.00	-0.019	858.39	-0.040	5.00	858.19	764+50.00	
857.55	12.00	-0.040	858.03	12.00	-0.019	858.26	12.00	-0.019	858.49	-0.040	5.00	858.29	764+75.00	
857.65	12.00	-0.040	858.13	12.00	-0.019	858.36	12.00	-0.019	858.59	-0.040	5.00	858.39	765+00.00	
857.75	12.00	-0.040	858.23	12.00	-0.019	858.46	12.00	-0.019	858.69	-0.040	5.00	858.49	765+25.00	
857.85	12.00	-0.040	858.33	12.00	-0.019	858.56	12.00	-0.019	858.79	-0.040	5.00	858.59	765+50.00	
857.95	12.00	-0.040	858.43	12.00	-0.019	858.66	12.00	-0.019	858.89	-0.040	5.00	858.69	765+75.00	
858.05	12.00	-0.040	858.53	12.00	-0.019	858.76	12.00	-0.019	858.99	-0.040	5.00	858.79	766+00.00	
858.16	12.00	-0.040	858.64	12.00	-0.019	858.87	12.00	-0.019	859.10	-0.040	5.00	858.90	766+25.00	
858.26	12.00	-0.040	858.74	12.00	-0.019	858.97	12.00	-0.019	859.20	-0.040	5.00	859.00	766+50.00	
858.37	12.00	-0.040	858.85	12.00	-0.019	859.08	12.00	-0.019	859.31	-0.040	5.00	859.11	766+75.00	
858.47	12.00	-0.040	858.95	12.00	-0.019	859.18	12.00	-0.019	859.41	-0.040	5.00	859.21	767+00.00	
858.57	12.00	-0.040	859.05	12.00	-0.019	859.28	12.00	-0.019	859.51	-0.040	5.00	859.31	767+25.00	
858.68	12.00	-0.040	859.16	12.00	-0.019	859.39	12.00	-0.019	859.62	-0.040	5.00	859.42	767+50.00	
858.78	12.00	-0.040	859.26	12.00	-0.019	859.49	12.00	-0.019	859.72	-0.040	5.00	859.52	767+75.00	
858.89	12.00	-0.040	859.37	12.00	-0.019	859.60	12.00	-0.019	859.83	-0.040	5.00	859.63	768+00.00	
858.99	12.00	-0.040	859.47	12.00	-0.019	859.70	12.00	-0.019	859.93	-0.040	5.00	859.73	768+25.00	
859.09	12.00	-0.040	859.57	12.00	-0.019	859.80	12.00	-0.019	860.03	-0.040	5.00	859.83	768+50.00	
859.20	12.00	-0.040	859.68	12.00	-0.019	859.91	12.00	-0.019	860.14	-0.040	5.00	859.94	768+75.00	
859.30	12.00	-0.040	859.78	12.00	-0.019	860.01	12.00	-0.019	860.24	-0.040	5.00	860.04	769+00.00	
859.41	12.00	-0.040	859.89	12.00	-0.019	860.12	12.00	-0.019	860.35	-0.040	5.00	860.15	769+25.00	
859.51	12.00	-0.040	859.99	12.00	-0.019	860.22	12.00	-0.019	860.45	-0.040	5.00	860.25	769+50.00	
859.61	12.00	-0.040	860.09	12.00	-0.019	860.32	12.00	-0.019	860.55	-0.040	5.00	860.35	769+75.00	
859.72	12.00	-0.040	860.20	12.00	-0.019	860.43	12.00	-0.019	860.66	-0.040	5.00	860.46	770+00.00	
859.82	12.00	-0.040	860.30	12.00	-0.019	860.53	12.00	-0.019	860.76	-0.040	5.00	860.56	770+25.00	
859.93	12.00	-0.040	860.41	12.00	-0.019	860.64	12.00	-0.019	860.87	-0.040	5.00	860.67	770+50.00	
860.03	12.00	-0.040	860.51	12.00	-0.019	860.74	12.00	-0.019	860.97	-0.040	5.00	860.77	770+75.00	
860.13	12.00	-0.040	860.61	12.00	-0.019	860.84	12.00	-0.019	861.07	-0.040	5.00	860.87	771+00.00	
860.24	12.00	-0.040	860.72	12.00	-0.019	860.95	12.00	-0.019	861.18	-0.040	5.00	860.98	771+25.00	
860.34	12.00	-0.040	860.82	12.00	-0.019	861.05	12.00	-0.019	861.28	-0.040	5.00	861.08	771+50.00	
860.45	12.00	-0.040	860.93	12.00	-0.019	861.16	12.00	-0.019	861.39	-0.040	5.00	861.19	771+75.00	
860.55	12.00	-0.040	861.03	12.00	-0.019	861.26	12.00	-0.019	861.49	-0.040	5.00	861.29	772+00.00	
860.65	12.00	-0.040	861.13	12.00	-0.019	861.36	12.00	-0.019	861.59	-0.040	5.00	861.39	772+25.00	
860.76	12.00	-0.040	861.24	12.00	-0.019	861.47	12.00	-0.019	861.70	-0.040	5.00	861.50	772+50.00	
860.86	12.00	-0.040	861.34	12.00	-0.019	861.57	12.00	-0.019	861.80	-0.040	5.00	861.60	772+75.00	
860.96	12.00	-0.040	861.44	12.00	-0.019	861.67	12.00	-0.019	861.90	-0.040	5.00	861.70	773+00.00	
861.07	12.00	-0.040	861.55	12.00	-0.019	861.78	12.00	-0.019	862.01	-0.040	5.00	861.81	773+25.00	
861.17	12.00	-0.040	861.65	12.00	-0.019	861.88	12.00	-0.019	862.11	-0.040	5.00	861.91	773+50.00	
861.28	12.00	-0.040	861.76	12.00	-0.019	861.99	12.00	-0.019	862.22	-0.040	5.00	862.02	773+75.00	
861.38	12.00	-0.040	861.86	12.00	-0.019	862.09	12.00	-0.019	862.32	-0.040	5.00	862.12	774+00.00	
861.48	12.00	-0.040	861.96	12.00	-0.019	862.19	12.00	-0.019	862.42	-0.040	5.00	862.22	774+25.00	
861.59	12.00	-0.040	862.07	12.00	-0.019	862.30	12.00	-0.019	862.53	-0.040	5.00	862.33	774+50.00	
861.69	12.00	-0.040	862.17	12.00	-0.019	862.40	12.00	-0.019	862.63	-0.040	5.00	862.43	774+75.00	
861.80	12.00	-0.040	862.28	12.00	-0.019	862.51	12.00	-0.019	862.74	-0.040	5.00	862.54	775+00.00	
861.90	12.00	-0.040	862.38	12.00	-0.019	862.61	12.00	-0.019	862.84	-0.040	5.00	862.64	775+25.00	
862.00	12.00	-0.040	862.48	12.00	-0.019	862.71	12.00	-0.019	862.94	-0.040	5.00	862.74	775+50.00	
862.11	12.00	-0.040	862.59	12.00	-0.019	862.82	12.00	-0.019	863.05	-0.040	5.00	862.85	775+75.00	
862.21	12.00	-0.040	862.69	12.00	-0.019	862.92	12.00	-0.019	863.15	-0.040	5.00	862.95	776+00.00	
862.31	12.00	-0.040	862.79	12.00	-0.019	863.02	12.00	-0.019	863.25	-0.040	5.00	863.05	776+25.00	
862.39	12.00	-0.040	862.87	12.00	-0.019	863.10	12.00	-0.019	863.33	-0.040	5.00	863.13	776+50.00	
862.44	12.00	-0.040	862.92	12.00	-0.019	863.15	12.00	-0.019	863.38	-0.040	5.00	863.18	776+75.00	
862.49	12.00	-0.040	862.97	12.00	-0.019	863.20	12.00	-0.019	863.43	-0.040	5.00	863.23	777+00.00	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 764+45.19														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
862.51	12.00	-0.040	862.99	12.00	-0.019	863.22	12.00	-0.019	863.45	-0.040	5.00	863.25	777+25.00	
862.52	12.00	-0.040	863.00	12.00	-0.019	863.23	12.00	-0.019	863.46	-0.040	5.00	863.26	777+50.00	
862.51	12.00	-0.040	862.99	12.00	-0.019	863.22	12.00	-0.019	863.45	-0.040	5.00	863.25	777+75.00	
862.48	12.00	-0.040	862.96	12.00	-0.019	863.19	12.00	-0.019	863.42	-0.040	5.00	863.22	778+00.00	
862.43	12.00	-0.040	862.91	12.00	-0.019	863.14	12.00	-0.019	863.37	-0.040	5.00	863.17	778+25.00	
862.37	12.00	-0.040	862.85	12.00	-0.019	863.08	12.00	-0.019	863.31	-0.040	5.00	863.11	778+50.00	
862.29	12.00	-0.040	862.77	12.00	-0.019	863.00	12.00	-0.019	863.23	-0.040	5.00	863.03	778+75.00	
862.19	12.00	-0.040	862.67	12.00	-0.019	862.90	12.00	-0.019	863.13	-0.040	5.00	862.93	779+00.00	
862.07	12.00	-0.040	862.55	12.00	-0.019	862.78	12.00	-0.019	863.01	-0.040	5.00	862.81	779+25.00	
861.94	12.00	-0.040	862.42	12.00	-0.019	862.65	12.00	-0.019	862.88	-0.040	5.00	862.68	779+50.00	
861.79	12.00	-0.040	862.27	12.00	-0.019	862.50	12.00	-0.019	862.73	-0.040	5.00	862.53	779+75.00	
861.62	12.00	-0.040	862.10	12.00	-0.019	862.33	12.00	-0.019	862.56	-0.040	5.00	862.36	780+00.00	
861.43	12.00	-0.040	861.91	12.00	-0.019	862.14	12.00	-0.019	862.37	-0.040	5.00	862.17	780+25.00	
861.23	12.00	-0.040	861.71	12.00	-0.019	861.94	12.00	-0.019	862.17	-0.040	5.00	861.97	780+50.00	
861.00	12.00	-0.040	861.48	12.00	-0.019	861.71	12.00	-0.019	861.94	-0.040	5.00	861.74	780+75.00	
860.76	12.00	-0.040	861.24	12.00	-0.019	861.47	12.00	-0.019	861.70	-0.040	5.00	861.50	781+00.00	
860.51	12.00	-0.040	860.99	12.00	-0.019	861.22	12.00	-0.019	861.45	-0.040	5.00	861.25	781+25.00	
860.23	12.00	-0.040	860.71	12.00	-0.019	860.94	12.00	-0.019	861.17	-0.040	5.00	860.97	781+50.00	
859.94	12.00	-0.040	860.42	12.00	-0.019	860.65	12.00	-0.019	860.88	-0.040	5.00	860.68	781+75.00	
859.63	12.00	-0.040	860.11	12.00	-0.019	860.34	12.00	-0.019	860.57	-0.040	5.00	860.37	782+00.00	
859.31	12.00	-0.040	859.79	12.00	-0.019	860.02	12.00	-0.019	860.25	-0.040	5.00	860.05	782+25.00	
858.99	12.00	-0.040	859.47	12.00	-0.019	859.70	12.00	-0.019	859.93	-0.040	5.00	859.73	782+50.00	
858.67	12.00	-0.040	859.15	12.00	-0.019	859.38	12.00	-0.019	859.61	-0.040	5.00	859.41	782+75.00	
858.35	12.00	-0.040	858.83	12.00	-0.019	859.06	12.00	-0.019	859.29	-0.040	5.00	859.09	783+00.00	
858.03	12.00	-0.040	858.51	12.00	-0.019	858.74	12.00	-0.019	858.97	-0.040	5.00	858.77	783+25.00	
857.71	12.00	-0.040	858.19	12.00	-0.019	858.42	12.00	-0.019	858.65	-0.040	5.00	858.45	783+50.00	
857.39	12.00	-0.040	857.87	12.00	-0.019	858.10	12.00	-0.019	858.33	-0.040	5.00	858.13	783+75.00	
857.07	12.00	-0.040	857.55	12.00	-0.019	857.78	12.00	-0.019	858.01	-0.040	5.00	857.81	784+00.00	
856.75	12.00	-0.040	857.23	12.00	-0.019	857.46	12.00	-0.019	857.69	-0.040	5.00	857.49	784+25.00	
856.43	12.00	-0.040	856.91	12.00	-0.019	857.14	12.00	-0.019	857.37	-0.040	5.00	857.17	784+50.00	
856.11	12.00	-0.040	856.59	12.00	-0.019	856.82	12.00	-0.019	857.05	-0.040	5.00	856.85	784+75.00	
855.79	12.00	-0.040	856.27	12.00	-0.019	856.50	12.00	-0.019	856.73	-0.040	5.00	856.53	785+00.00	
855.47	12.00	-0.040	855.95	12.00	-0.019	856.18	12.00	-0.019	856.41	-0.040	5.00	856.21	785+25.00	
855.16	12.00	-0.040	855.64	12.00	-0.019	855.87	12.00	-0.019	856.10	-0.040	5.00	855.90	785+50.00	
854.84	12.00	-0.040	855.32	12.00	-0.019	855.55	12.00	-0.019	855.78	-0.040	5.00	855.58	785+75.00	
854.52	12.00	-0.040	855.00	12.00	-0.019	855.23	12.00	-0.019	855.46	-0.040	5.00	855.26	786+00.00	
854.20	12.00	-0.040	854.68	12.00	-0.019	854.91	12.00	-0.019	855.14	-0.040	5.00	854.94	786+25.00	
853.88	12.00	-0.040	854.36	12.00	-0.019	854.59	12.00	-0.019	854.82	-0.040	5.00	854.62	786+50.00	
853.56	12.00	-0.040	854.04	12.00	-0.019	854.27	12.00	-0.019	854.50	-0.040	5.00	854.30	786+75.00	
853.24	12.00	-0.040	853.72	12.00	-0.019	853.95	12.00	-0.019	854.18	-0.040	5.00	853.98	787+00.00	
852.92	12.00	-0.040	853.40	12.00	-0.019	853.63	12.00	-0.019	853.86	-0.040	5.00	853.66	787+25.00	
852.60	12.00	-0.040	853.08	12.00	-0.019	853.31	12.00	-0.019	853.54	-0.040	5.00	853.34	787+50.00	
852.28	12.00	-0.040	852.76	12.00	-0.019	852.99	12.00	-0.019	853.22	-0.040	5.00	853.02	787+75.00	
851.96	12.00	-0.040	852.44	12.00	-0.019	852.67	12.00	-0.019	852.90	-0.040	5.00	852.70	788+00.00	
851.64	12.00	-0.040	852.12	12.00	-0.019	852.35	12.00	-0.019	852.58	-0.040	5.00	852.38	788+25.00	
851.32	12.00	-0.040	851.80	12.00	-0.019	852.03	12.00	-0.019	852.26	-0.040	5.00	852.06	788+50.00	
851.00	12.00	-0.040	851.48	12.00	-0.019	851.71	12.00	-0.019	851.94	-0.040	5.00	851.74	788+75.00	
850.68	12.00	-0.040	851.16	12.00	-0.019	851.39	12.00	-0.019	851.62	-0.040	5.00	851.42	789+00.00	
850.36	12.00	-0.040	850.84	12.00	-0.019	851.07	12.00	-0.019	851.30	-0.040	5.00	851.10	789+25.00	
850.04	12.00	-0.040	850.52	12.00	-0.019	850.75	12.00	-0.019	850.98	-0.040	5.00	850.78	789+50.00	
849.73	12.00	-0.040	850.21	12.00	-0.019	850.44	12.00	-0.019	850.67	-0.040	5.00	850.47	789+75.00	
849.41	12.00	-0.040	849.89	12.00	-0.019	850.12	12.00	-0.019	850.35	-0.040	5.00	850.15	790+00.00	
849.09	12.00	-0.040	849.57	12.00	-0.019	849.80	12.00	-0.019	850.03	-0.040	5.00	849.83	790+25.00	
848.77	12.00	-0.040	849.25	12.00	-0.019	849.48	12.00	-0.019	849.71	-0.040	5.00	849.51	790+50.00	
848.45	12.00	-0.040	848.93	12.00	-0.019	849.16	12.00	-0.019	849.39	-0.040	5.00	849.19	790+75.00	
848.13	12.00	-0.040	848.61	12.00	-0.019	848.84	12.00	-0.019	849.07	-0.040	5.00	848.87	791+00.00	
847.81	12.00	-0.040	848.29	12.00	-0.019	848.52	12.00	-0.019	848.75	-0.040	5.00	848.55	791+25.00	
847.49	12.00	-0.040	847.97	12.00	-0.019	848.20	12.00	-0.019	848.43	-0.040	5.00	848.23	791+50.00	
847.17	12.00	-0.040	847.65	12.00	-0.019	847.88	12.00	-0.019	848.11	-0.040	5.00	847.91	791+75.00	
846.85	12.00	-0.040	847.33	12.00	-0.019	847.56	12.00	-0.019	847.79	-0.040	5.00	847.59	792+00.00	
846.53	12.00	-0.040	847.01	12.00	-0.019	847.24	12.00	-0.019	847.47	-0.040	5.00	847.27	792+25.00	
846.21	12.00	-0.040	846.69	12.00	-0.019	846.92	12.00	-0.019	847.15	-0.040	5.00	846.95	792+50.00	
845.89	12.00	-0.040	846.37	12.00	-0.019	846.60	12.00	-0.019	846.83	-0.040	5.00	846.63	792+75.00	
845.57	12.00	-0.040	846.05	12.00	-0.019	846.28	12.00	-0.019	846.51	-0.040	5.00	846.31	793+00.00	
845.25	12.00	-0.040	845.73	12.00	-0.019	845.96	12.00	-0.019	846.19	-0.040	5.00	845.99	793+25.00	
844.93	12.00	-0.040	845.41	12.00	-0.019	845.64	12.00	-0.019	845.87	-0.040	5.00	845.67	793+50.00	
844.61	12.00	-0.040	845.09	12.00	-0.019	845.32	12.00	-0.019	845.55	-0.040	5.00	845.35	793+75.00	
844.30	12.00	-0.040	844.78	12.00	-0.019	845.01	12.00	-0.019	845.24	-0.040	5.00	845.04	794+00.00	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 764+45.19														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
843.98	12.00	-0.040	844.46	12.00	-0.019	844.69	12.00	-0.019	844.92	-0.040	5.00	844.72	794+25.00	
843.66	12.00	-0.040	844.14	12.00	-0.019	844.37	12.00	-0.019	844.60	-0.040	5.00	844.40	794+50.00	
843.34	12.00	-0.040	843.82	12.00	-0.019	844.05	12.00	-0.019	844.28	-0.040	5.00	844.08	794+75.00	
843.02	12.00	-0.040	843.50	12.00	-0.019	843.73	12.00	-0.019	843.96	-0.040	5.00	843.76	795+00.00	
842.70	12.00	-0.040	843.18	12.00	-0.019	843.41	12.00	-0.019	843.64	-0.040	5.00	843.44	795+25.00	
842.38	12.00	-0.040	842.86	12.00	-0.019	843.09	12.00	-0.019	843.32	-0.040	7.54	843.02	795+50.00	MEDIAN U-TURN OPENING STA. 795+75.00
842.06	12.00	-0.040	842.54	12.00	-0.019	842.77	12.00	-0.019	843.00	-0.040	SEE CROSS-SECTION		795+75.00	
841.74	12.00	-0.040	842.22	12.00	-0.019	842.45	12.00	-0.019	842.68	-0.040	25.65	841.65	796+00.00	
841.42	12.00	-0.040	841.90	12.00	-0.019	842.13	12.00	-0.019	842.36	-0.040	13.16	841.83	796+25.00	
841.10	12.00	-0.040	841.58	12.00	-0.019	841.81	12.00	-0.019	842.04	-0.040	11.52	841.58	796+50.00	
840.78	12.00	-0.040	841.26	12.00	-0.019	841.49	12.00	-0.019	841.72	-0.040	10.64	841.29	796+75.00	
840.46	12.00	-0.040	840.94	12.00	-0.019	841.17	12.00	-0.019	841.40	-0.040	9.77	841.01	797+00.00	
840.14	12.00	-0.040	840.62	12.00	-0.019	840.85	12.00	-0.019	841.08	-0.040	8.89	840.72	797+25.00	
839.82	12.00	-0.040	840.30	12.00	-0.019	840.53	12.00	-0.019	840.76	-0.040	8.02	840.44	797+50.00	
839.50	12.00	-0.040	839.98	12.00	-0.019	840.21	12.00	-0.019	840.44	-0.040	7.14	840.15	797+75.00	
839.18	12.00	-0.040	839.66	12.00	-0.019	839.89	12.00	-0.019	840.12	-0.040	6.27	839.87	798+00.00	
838.87	12.00	-0.040	839.35	12.00	-0.019	839.58	12.00	-0.019	839.81	-0.040	5.39	839.59	798+25.00	
838.55	12.00	-0.040	839.03	12.00	-0.019	839.26	12.00	-0.019	839.49	-0.040	5.00	839.29	798+50.00	
838.23	12.00	-0.040	838.71	12.00	-0.019	838.94	12.00	-0.019	839.17	-0.040	5.00	838.97	798+75.00	
838.01	12.00	-0.040	838.49	12.00	-0.019	838.72	12.00	-0.019	838.95	-0.040	5.00	838.75	798+92.08	END FULL SUPERELEVATION
837.97	12.00	-0.040	838.45	12.00	-0.017	838.65	12.00	-0.017	838.85	-0.040	5.00	838.65	799+00.00	
837.85	12.00	-0.040	838.33	12.00	-0.016	838.52	12.00	-0.012	838.67	-0.040	5.00	838.47	799+13.98	PT STA. 799+13.98
837.75	12.00	-0.040	838.23	12.00	-0.016	838.42	12.00	-0.009	838.53	-0.040	5.00	838.33	799+25.00	
837.52	12.00	-0.040	838.00	12.00	-0.016	838.20	12.00	-0.001	838.21	-0.040	5.00	838.01	799+50.00	
837.30	12.00	-0.040	837.78	12.00	-0.016	837.97	12.00	0.006	837.89	-0.040	5.00	837.69	799+75.00	
837.07	12.00	-0.040	837.55	12.00	-0.016	837.74	12.00	0.014	837.57	-0.040	5.00	837.37	800+00.00	
837.01	12.00	-0.040	837.49	12.00	-0.016	837.68	12.00	0.016	837.49	-0.040	5.00	837.29	800+06.08	BEGIN NORMAL CROWN

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 849+63.07														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
2847+41.76	800.83	14.00	-0.040	801.39	12.00	-0.028	801.05	12.00	-0.028	800.72	-0.040	10.00	800.32	END NORMAL CROWN
2847+50.00	800.89	13.67	-0.040	801.44	12.00	-0.028	801.10	12.00	-0.028	800.77	-0.040	10.17	800.36	
2847+69.62	801.00	12.88	-0.040	801.52	12.00	-0.028	801.18	12.00	-0.028	800.85	-0.040	10.56	800.43	
2847+75.00	801.03	12.67	-0.040	801.54	12.00	-0.027	801.21	12.00	-0.025	800.91	-0.040	10.67	800.49	
2847+88.34	801.10	12.13	-0.040	801.59	12.00	-0.025	801.29	12.00	-0.025	800.99	-0.040	10.94	800.55	P.C.C. STA. 2847+88.34
2848+00.00	801.17	11.66	-0.040	801.64	12.00	-0.023	801.36	12.00	-0.021	801.11	-0.040	11.17	800.66	
2848+25.00	801.31	10.66	-0.040	801.74	12.00	-0.019	801.51	12.00	-0.019	801.29	-0.040	11.67	800.82	
2848+32.02	801.36	10.37	-0.040	801.77	12.00	-0.018	801.56	12.00	-0.018	801.35	-0.040	11.81	800.88	
2848+50.00	801.45	9.65	-0.040	801.84	12.00	-0.018	801.63	12.00	-0.018	801.42	-0.040	12.00	800.94	BEGIN FULL SUPERELEVATION
2848+75.00	801.59	8.65	-0.040	801.94	12.00	-0.018	801.73	12.00	-0.018	801.52	-0.040	12.00	801.04	
2849+00.00	801.73	7.64	-0.040	802.04	12.00	-0.018	801.83	12.00	-0.018	801.62	-0.040	12.00	801.14	
2849+25.00	801.87	6.64	-0.040	802.14	12.00	-0.018	801.93	12.00	-0.018	801.72	-0.040	12.00	801.24	
2849+50.00	802.01	5.63	-0.040	802.24	12.00	-0.018	802.03	12.00	-0.018	801.82	-0.040	12.00	801.34	
2849+75.00	802.14	5.00	-0.040	802.34	12.00	-0.018	802.13	12.00	-0.018	801.92	-0.040	12.00	801.44	
2850+00.00	802.23	5.00	-0.040	802.43	12.00	-0.018	802.22	12.00	-0.018	802.01	-0.040	12.00	801.53	
2850+25.00	802.33	5.00	-0.040	802.53	12.00	-0.018	802.32	12.00	-0.018	802.11	-0.040	12.00	801.63	
2850+50.00	802.43	5.00	-0.040	802.63	12.00	-0.018	802.42	12.00	-0.018	802.21	-0.040	12.00	801.73	
2850+75.00	802.53	5.00	-0.040	802.73	12.00	-0.018	802.52	12.00	-0.018	802.31	-0.040	12.00	801.83	
2851+00.00	802.63	5.00	-0.040	802.83	12.00	-0.018	802.62	12.00	-0.018	802.41	-0.040	12.00	801.93	
2851+25.00	802.73	5.00	-0.040	802.93	12.00	-0.018	802.72	12.00	-0.018	802.51	-0.040	12.00	802.03	
2851+50.00	802.83	5.00	-0.040	803.03	12.00	-0.018	802.82	12.00	-0.018	802.61	-0.040	12.00	802.13	
2851+75.00	802.93	5.00	-0.040	803.13	12.00	-0.018	802.92	12.00	-0.018	802.71	-0.040	12.00	802.23	
2852+00.00	803.03	5.00	-0.040	803.23	12.00	-0.018	803.02	12.00	-0.018	802.81	-0.040	12.00	802.33	
2852+25.00	803.13	5.00	-0.040	803.33	12.00	-0.018	803.12	12.00	-0.018	802.91	-0.040	12.00	802.43	
2852+50.00	803.23	5.00	-0.040	803.43	12.00	-0.018	803.22	12.00	-0.018	803.01	-0.040	12.00	802.53	
2852+75.00	803.33	5.00	-0.040	803.53	12.00	-0.018	803.32	12.00	-0.018	803.11	-0.040	12.00	802.63	
2853+00.00	803.43	5.00	-0.040	803.63	12.00	-0.018	803.42	12.00	-0.018	803.21	-0.040	12.00	802.73	
2853+25.00	803.53	5.00	-0.040	803.73	12.00	-0.018	803.52	12.00	-0.018	803.31	-0.040	12.00	802.83	
2853+50.00	803.63	5.00	-0.040	803.83	12.00	-0.018	803.62	12.00	-0.018	803.41	-0.040	12.00	802.93	
2853+75.00	803.72	5.00	-0.040	803.92	12.00	-0.018	803.71	12.00	-0.018	803.50	-0.040	12.00	803.02	
2854+00.00	803.82	5.00	-0.040	804.02	12.00	-0.018	803.81	12.00	-0.018	803.60	-0.040	12.00	803.12	
2854+25.00	803.92	5.00	-0.040	804.12	12.00	-0.018	803.91	12.00	-0.018	803.70	-0.040	12.00	803.22	
2854+50.00	804.02	5.00	-0.040	804.22	12.00	-0.018	804.01	12.00	-0.018	803.80	-0.040	12.00	803.32	
2854+75.00	804.12	5.00	-0.040	804.32	12.00	-0.018	804.11	12.00	-0.018	803.90	-0.040	12.00	803.42	
2855+00.00	804.22	5.00	-0.040	804.42	12.00	-0.018	804.21	12.00	-0.018	804.00	-0.040	12.00	803.52	
2855+25.00	804.32	5.00	-0.040	804.52	12.00	-0.018	804.31	12.00	-0.018	804.10	-0.040	12.00	803.62	
2855+50.00	804.42	5.00	-0.040	804.62	12.00	-0.018	804.41	12.00	-0.018	804.20	-0.040	12.00	803.72	
2855+75.00	804.52	5.00	-0.040	804.72	12.00	-0.018	804.51	12.00	-0.018	804.30	-0.040	12.00	803.82	
2856+00.00	804.62	5.00	-0.040	804.82	12.00	-0.018	804.61	12.00	-0.018	804.40	-0.040	12.00	803.92	
2856+25.00	804.72	5.00	-0.040	804.92	12.00	-0.018	804.71	12.00	-0.018	804.50	-0.040	12.00	804.02	
2856+50.00	804.82	5.00	-0.040	805.02	12.00	-0.018	804.81	12.00	-0.018	804.60	-0.040	12.00	804.12	
2856+75.00	804.92	5.00	-0.040	805.12	12.00	-0.018	804.91	12.00	-0.018	804.70	-0.040	12.00	804.22	
2857+00.00	805.02	5.00	-0.040	805.22	12.00	-0.018	805.01	12.00	-0.018	804.80	-0.040	12.00	804.32	
2857+25.00	805.12	5.00	-0.040	805.32	12.00	-0.018	805.11	12.00	-0.018	804.90	-0.040	12.00	804.42	
2857+50.00	805.22	5.00	-0.040	805.42	12.00	-0.018	805.21	12.00	-0.018	805.00	-0.040	12.00	804.52	
2857+75.00	805.32	5.00	-0.040	805.52	12.00	-0.018	805.31	12.00	-0.018	805.10	-0.040	12.00	804.62	
2858+00.00	805.41	5.00	-0.040	805.61	12.00	-0.018	805.40	12.00	-0.018	805.19	-0.040	12.00	804.71	
2858+25.00	805.51	5.00	-0.040	805.71	12.00	-0.018	805.50	12.00	-0.018	805.29	-0.040	12.00	804.81	
2858+50.00	805.61	5.00	-0.040	805.81	12.00	-0.018	805.60	12.00	-0.018	805.39	-0.040	12.00	804.91	
2858+75.00	805.71	5.00	-0.040	805.91	12.00	-0.018	805.70	12.00	-0.018	805.49	-0.040	12.00	805.01	
2859+00.00	805.81	5.00	-0.040	806.01	12.00	-0.018	805.80	12.00	-0.018	805.59	-0.040	12.00	805.11	
2859+25.00	805.91	5.00	-0.040	806.11	12.00	-0.018	805.90	12.00	-0.018	805.69	-0.040	12.00	805.21	
2859+50.00	806.01	5.00	-0.040	806.21	12.00	-0.018	806.00	12.00	-0.018	805.79	-0.040	12.00	805.31	
2859+75.00	806.11	5.00	-0.040	806.31	12.00	-0.018	806.10	12.00	-0.018	805.89	-0.040	12.00	805.41	
2860+00.00	806.21	5.00	-0.040	806.41	12.00	-0.018	806.20	12.00	-0.018	805.99	-0.040	12.00	805.51	
2860+25.00	806.31	5.00	-0.040	806.51	12.00	-0.018	806.30	12.00	-0.018	806.09	-0.040	12.00	805.61	
2860+50.00	806.41	5.00	-0.040	806.61	12.00	-0.018	806.40	12.00	-0.018	806.19	-0.040	12.00	805.71	
2860+75.00	806.51	5.00	-0.040	806.71	12.00	-0.018	806.50	12.00	-0.018	806.29	-0.040	12.00	805.81	
2861+00.00	806.61	5.00	-0.040	806.81	12.00	-0.018	806.60	12.00	-0.018	806.39	-0.040	12.00	805.91	
2861+25.00	806.71	5.00	-0.040	806.91	12.00	-0.018	806.70	12.00	-0.018	806.49	-0.040	12.00	806.01	
2861+50.00	806.81	5.00	-0.040	807.01	12.00	-0.018	806.80	12.00	-0.018	806.59	-0.040	12.00	806.11	
2861+75.00	806.90	5.00	-0.040	807.10	12.00	-0.018	806.89	12.00	-0.018	806.68	-0.040	12.00	806.20	
2862+00.00	807.00	5.00	-0.040	807.20	12.00	-0.018	806.99	12.00	-0.018	806.78	-0.040	12.00	806.30	
2862+25.00	807.10	5.00	-0.040	807.30	12.00	-0.018	807.09	12.00	-0.018	806.88	-0.040	12.00	806.40	
2862+50.00	807.20	5.00	-0.040	807.40	12.00	-0.018	807.19	12.00	-0.018	806.98	-0.040	12.00	806.50	
2862+75.00	807.30	5.00	-0.040	807.50	12.00	-0.018	807.29	12.00	-0.018	807.08	-0.040	12.00	806.60	
2863+00.00	807.40	5.00	-0.040	807.60	12.00	-0.018	807.39	12.00	-0.018	807.18	-0.040	12.00	806.70	
2863+25.00	807.50	5.00	-0.040	807.70	12.00	-0.018	807.49	12.00	-0.018	807.28	-0.040	12.00	806.80	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 849+63.07														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
2863+50.00	807.60	5.00	-0.040	807.80	12.00	-0.018	807.59	12.00	-0.018	807.38	-0.040	12.00	806.90	
2863+75.00	807.70	5.00	-0.040	807.90	12.00	-0.018	807.69	12.00	-0.018	807.48	-0.040	12.00	807.00	
2864+00.00	807.80	5.00	-0.040	808.00	12.00	-0.018	807.79	12.00	-0.018	807.58	-0.040	12.00	807.10	
2864+25.00	807.90	5.00	-0.040	808.10	12.00	-0.018	807.89	12.00	-0.018	807.68	-0.040	12.00	807.20	
2864+50.00	808.00	5.00	-0.040	808.20	12.00	-0.018	807.99	12.00	-0.018	807.78	-0.040	12.00	807.30	
2864+75.00	808.10	5.00	-0.040	808.30	12.00	-0.018	808.09	12.00	-0.018	807.88	-0.040	12.00	807.40	
2865+00.00	808.20	5.00	-0.040	808.40	12.00	-0.018	808.19	12.00	-0.018	807.98	-0.040	12.00	807.50	
2865+25.00	808.30	5.00	-0.040	808.50	12.00	-0.018	808.29	12.00	-0.018	808.08	-0.040	12.00	807.60	
2865+50.00	808.40	5.00	-0.040	808.60	12.00	-0.018	808.39	12.00	-0.018	808.18	-0.040	12.00	807.70	
2865+66.88	808.46	5.00	-0.040	808.66	12.00	-0.018	808.44	12.00	-0.018	808.23	-0.040	12.00	807.75	
2865+73.55	808.49	5.00	-0.040	808.69	12.00	-0.016	808.50	12.00	-0.016	808.31	-0.040	12.00	807.83	
2865+75.00	808.49	5.00	-0.040	808.69	12.00	-0.016	808.50	12.00	-0.016	808.31	-0.040	12.00	807.83	
2865+96.88	808.58	5.00	-0.040	808.78	12.00	-0.009	808.67	12.00	-0.016	808.48	-0.040	12.00	808.00	PC STA. 2865+96.88 & STATION EQUATION
866+13.21	808.58	5.00	-0.040	808.78	12.00	-0.009	808.67	12.00	-0.016	808.48	-0.040	12.00	808.00	
866+25.00	808.64	5.00	-0.040	808.84	12.00	-0.005	808.78	12.00	-0.016	808.59	-0.040	12.00	808.11	
866+43.21	808.70	5.00	-0.040	808.90	12.00	0.000	808.90	12.00	-0.016	808.71	-0.040	12.00	808.23	
866+50.00	808.74	5.00	-0.040	808.94	12.00	0.003	808.98	12.00	-0.016	808.78	-0.040	12.00	808.30	
866+75.00	808.84	5.00	-0.040	809.04	12.00	0.011	809.17	12.00	-0.016	808.98	-0.040	12.00	808.50	
866+91.21	808.89	5.00	-0.040	809.09	12.00	0.016	809.28	12.00	-0.016	809.09	-0.040	12.00	808.61	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 849+63.07														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
804.80	10.00	-0.040	805.20	12.00	0.028	804.86	12.00	0.028	804.53	-0.040	22.00	803.65	1855+52.68	END NORMAL CROWN
804.79	10.15	-0.040	805.20	12.00	0.025	804.90	12.00	0.025	804.60	-0.040	21.39	803.74	1855+68.11	PCC STATION
804.79	10.22	-0.040	805.20	12.00	0.024	804.91	12.00	0.024	804.63	-0.040	21.11	803.79	1855+75.00	
804.78	10.47	-0.040	805.20	12.00	0.020	804.96	12.00	0.020	804.73	-0.040	20.12	803.93	1856+00.00	
804.78	10.59	-0.040	805.20	12.00	0.018	804.99	12.00	0.018	804.77	-0.040	19.65	803.98	1856+11.79	END FULL SUPERELEVATION
804.81	10.72	-0.040	805.24	12.00	0.018	805.03	12.00	0.018	804.82	-0.040	19.12	804.06	1856+25.00	
804.90	10.97	-0.040	805.34	12.00	0.018	805.13	12.00	0.018	804.92	-0.040	18.12	804.20	1856+50.00	
804.99	11.22	-0.040	805.44	12.00	0.018	805.23	12.00	0.018	805.02	-0.040	17.13	804.33	1856+75.00	
805.08	11.47	-0.040	805.54	12.00	0.018	805.33	12.00	0.018	805.12	-0.040	16.13	804.47	1857+00.00	
805.17	11.72	-0.040	805.64	12.00	0.018	805.43	12.00	0.018	805.22	-0.040	15.14	804.61	1857+25.00	
805.26	12.00	-0.040	805.74	12.00	0.018	805.53	12.00	0.018	805.32	-0.040	14.14	804.75	1857+50.00	
805.36	12.00	-0.040	805.84	12.00	0.018	805.63	12.00	0.018	805.42	-0.040	13.15	804.89	1857+75.00	
805.46	12.00	-0.040	805.94	12.00	0.018	805.73	12.00	0.018	805.52	-0.040	12.15	805.03	1858+00.00	
805.56	12.00	-0.040	806.04	12.00	0.018	805.83	12.00	0.018	805.62	-0.040	11.16	805.17	1858+25.00	
805.66	12.00	-0.040	806.14	12.00	0.018	805.93	12.00	0.018	805.72	-0.040	10.16	805.31	1858+50.00	
805.76	12.00	-0.040	806.24	12.00	0.018	806.03	12.00	0.018	805.82	-0.040	9.16	805.45	1858+75.00	
805.86	12.00	-0.040	806.34	12.00	0.018	806.13	12.00	0.018	805.92	-0.040	8.17	805.59	1859+00.00	
805.96	12.00	-0.040	806.44	12.00	0.018	806.23	12.00	0.018	806.02	-0.040	7.17	805.73	1859+25.00	
806.06	12.00	-0.040	806.54	12.00	0.018	806.33	12.00	0.018	806.12	-0.040	6.18	805.87	1859+50.00	
806.16	12.00	-0.040	806.64	12.00	0.018	806.43	12.00	0.018	806.22	-0.040	5.18	806.01	1859+75.00	
806.25	12.00	-0.040	806.73	12.00	0.018	806.52	12.00	0.018	806.31	-0.040	5.00	806.11	1860+00.00	
806.35	12.00	-0.040	806.83	12.00	0.018	806.62	12.00	0.018	806.41	-0.040	5.00	806.21	1860+25.00	
806.45	12.00	-0.040	806.93	12.00	0.018	806.72	12.00	0.018	806.51	-0.040	5.00	806.31	1860+50.00	
806.55	12.00	-0.040	807.03	12.00	0.018	806.82	12.00	0.018	806.61	-0.040	5.00	806.41	1860+75.00	
806.65	12.00	-0.040	807.13	12.00	0.018	806.92	12.00	0.018	806.71	-0.040	5.00	806.51	1861+00.00	
806.75	12.00	-0.040	807.23	12.00	0.018	807.02	12.00	0.018	806.81	-0.040	5.00	806.61	1861+25.00	
806.85	12.00	-0.040	807.33	12.00	0.018	807.12	12.00	0.018	806.91	-0.040	5.00	806.71	1861+50.00	
806.95	12.00	-0.040	807.43	12.00	0.018	807.22	12.00	0.018	807.01	-0.040	5.00	806.81	1861+75.00	
807.05	12.00	-0.040	807.53	12.00	0.018	807.32	12.00	0.018	807.11	-0.040	5.00	806.91	1862+00.00	
807.15	12.00	-0.040	807.63	12.00	0.018	807.42	12.00	0.018	807.21	-0.040	5.00	807.01	1862+25.00	
807.25	12.00	-0.040	807.73	12.00	0.018	807.52	12.00	0.018	807.31	-0.040	5.00	807.11	1862+50.00	
807.35	12.00	-0.040	807.83	12.00	0.018	807.62	12.00	0.018	807.41	-0.040	5.00	807.21	1862+75.00	
807.45	12.00	-0.040	807.93	12.00	0.018	807.72	12.00	0.018	807.51	-0.040	5.00	807.31	1863+00.00	
807.55	12.00	-0.040	808.03	12.00	0.018	807.82	12.00	0.018	807.61	-0.040	5.00	807.41	1863+25.00	
807.65	12.00	-0.040	808.13	12.00	0.018	807.92	12.00	0.018	807.71	-0.040	5.00	807.51	1863+50.00	
807.75	12.00	-0.040	808.23	12.00	0.018	808.02	12.00	0.018	807.81	-0.040	5.00	807.61	1863+75.00	
807.84	12.00	-0.040	808.32	12.00	0.018	808.11	12.00	0.018	807.90	-0.040	5.00	807.70	1864+00.00	
807.94	12.00	-0.040	808.42	12.00	0.018	808.21	12.00	0.018	808.00	-0.040	5.00	807.80	1864+25.00	
808.04	12.00	-0.040	808.52	12.00	0.018	808.31	12.00	0.018	808.10	-0.040	5.00	807.90	1864+50.00	
808.14	12.00	-0.040	808.62	12.00	0.018	808.41	12.00	0.018	808.20	-0.040	5.00	808.00	1864+75.00	
808.24	12.00	-0.040	808.72	12.00	0.018	808.51	12.00	0.018	808.30	-0.040	5.00	808.10	1865+00.00	
808.34	12.00	-0.040	808.82	12.00	0.018	808.61	12.00	0.018	808.40	-0.040	5.00	808.20	1865+25.00	
808.44	12.00	-0.040	808.92	12.00	0.018	808.71	12.00	0.018	808.50	-0.040	5.00	808.30	1865+50.00	
808.54	12.00	-0.040	809.02	12.00	0.018	808.81	12.00	0.018	808.60	-0.040	5.00	808.40	1865+75.00	
808.61	12.00	-0.040	809.09	12.00	0.018	808.88	12.00	0.018	808.66	-0.040	5.00	808.46	1865+90.60	BEGIN TRANSITION
806.59	12.00	-0.040	807.07	12.00	0.016	806.88	12.00	0.016	806.69	-0.040	5.00	806.49	1865+97.27	NORMAL CROWN RIGHT SLOPE
808.59	12.00	-0.040	809.07	12.00	0.015	808.89	12.00	0.016	808.70	-0.040	5.00	808.50	1866+00.00	STATION EQUATION AND PT STATION
808.60	12.00	-0.040	809.08	12.00	0.009	808.97	12.00	0.016	808.78	-0.040	5.00	808.58	1866+20.60	
808.60	12.00	-0.040	809.08	12.00	0.009	808.97	12.00	0.016	808.78	-0.040	5.00	808.58	866+13.19	
808.61	12.00	-0.040	809.09	12.00	0.005	809.03	12.00	0.016	808.84	-0.040	5.00	808.64	866+25.00	
808.61	12.00	-0.040	809.09	12.00	0.000	809.09	12.00	0.016	808.90	-0.040	5.00	808.70	866+43.19	
808.61	12.00	-0.040	809.09	12.00	-0.003	809.13	12.00	0.016	808.94	-0.040	5.00	808.74	866+50.00	
808.61	12.00	-0.040	809.09	12.00	-0.011	809.23	12.00	0.016	809.04	-0.040	5.00	808.84	866+75.00	
808.65	12.00	-0.040	809.13	12.00	-0.016	809.32	12.00	0.016	809.13	-0.040	5.00	808.93	866+91.19	END SUPERELEVATION TRANSITION

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IR90_GST_014.DGN 03/12/08 SHEET 1 OF 4

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 1047+58.38														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
1041+50.83	804.59	5.00	-0.040	804.79	12.00	0.016	804.98	12.00	-0.016	804.79	-0.040	12.00	804.31	END NORMAL CROWN
1041+75.00	804.52	5.00	-0.040	804.72	12.00	0.008	804.82	12.00	-0.016	804.62	-0.040	12.00	804.14	
1042+00.00	804.44	5.00	-0.040	804.64	12.00	0.000	804.64	12.00	-0.016	804.45	-0.040	12.00	803.97	
1042+25.00	804.37	5.00	-0.040	804.57	12.00	-0.007	804.49	12.00	-0.016	804.29	-0.040	12.00	803.81	
1042+42.93	804.27	6.00	-0.040	804.51	12.00	-0.012	804.37	12.00	-0.016	804.17	-0.040	12.00	803.69	P.C. STA.1042+42.93
1042+50.00	804.29	5.00	-0.040	804.49	12.00	-0.014	804.32	12.00	-0.016	804.13	-0.040	12.00	803.65	
1042+64.81	804.25	5.00	-0.040	804.45	12.00	-0.019	804.22	12.00	-0.019	803.99	-0.040	12.00	803.51	BEGIN FULL SUPERELEVATION
1042+75.00	804.22	5.00	-0.040	804.42	12.00	-0.019	804.19	12.00	-0.019	803.96	-0.040	12.00	803.48	
1043+00.00	804.14	5.00	-0.040	804.34	12.00	-0.019	804.11	12.00	-0.019	803.88	-0.040	12.00	803.40	
1043+25.00	804.07	5.00	-0.040	804.27	12.00	-0.019	804.04	12.00	-0.019	803.81	-0.040	12.00	803.33	
1043+50.00	804.00	5.00	-0.040	804.20	12.00	-0.019	803.97	12.00	-0.019	803.74	-0.040	12.00	803.26	
1043+75.00	803.92	5.00	-0.040	804.12	12.00	-0.019	803.89	12.00	-0.019	803.66	-0.040	12.00	803.18	
1044+00.00	803.85	5.00	-0.040	804.05	12.00	-0.019	803.82	12.00	-0.019	803.59	-0.040	12.00	803.11	
1044+25.00	803.77	5.00	-0.040	803.97	12.00	-0.019	803.74	12.00	-0.019	803.51	-0.040	12.00	803.03	
1044+50.00	803.70	5.00	-0.040	803.90	12.00	-0.019	803.67	12.00	-0.019	803.44	-0.040	12.00	802.96	
1044+75.00	803.62	5.00	-0.040	803.82	12.00	-0.019	803.59	12.00	-0.019	803.36	-0.040	12.00	802.88	
1045+00.00	803.53	5.00	-0.040	803.73	12.00	-0.019	803.50	12.00	-0.019	803.27	-0.040	12.00	802.79	
1045+25.00	803.42	5.00	-0.040	803.62	12.00	-0.019	803.39	12.00	-0.019	803.16	-0.040	12.00	802.68	
1045+50.00	803.31	5.00	-0.040	803.51	12.00	-0.019	803.28	12.00	-0.019	803.05	-0.040	12.00	802.57	
1045+75.00	803.18	5.00	-0.040	803.38	12.00	-0.019	803.15	12.00	-0.019	802.92	-0.040	12.00	802.44	
1046+00.00	803.04	5.00	-0.040	803.24	12.00	-0.019	803.01	12.00	-0.019	802.78	-0.040	12.00	802.30	
1046+25.00	802.89	5.00	-0.040	803.09	12.00	-0.019	802.86	12.00	-0.019	802.63	-0.040	12.00	802.15	
1046+50.00	802.73	5.00	-0.040	802.93	12.00	-0.019	802.70	12.00	-0.019	802.47	-0.040	12.00	801.99	
1046+75.00	802.57	5.00	-0.040	802.77	12.00	-0.019	802.54	12.00	-0.019	802.31	-0.040	12.00	801.83	
1047+00.00	802.40	5.00	-0.040	802.60	12.00	-0.019	802.37	12.00	-0.019	802.14	-0.040	12.00	801.66	
1047+25.00	802.23	5.00	-0.040	802.43	12.00	-0.019	802.20	12.00	-0.019	801.97	-0.040	12.00	801.49	
1047+50.00	802.08	5.00	-0.040	802.28	12.00	-0.019	802.05	12.00	-0.019	801.82	-0.040	12.00	801.34	
1047+75.00	801.95	5.00	-0.040	802.15	12.00	-0.019	801.92	12.00	-0.019	801.69	-0.040	12.00	801.21	
1048+00.00	801.84	5.00	-0.040	802.04	12.00	-0.019	801.81	12.00	-0.019	801.58	-0.040	12.00	801.10	
1048+25.00	801.76	5.00	-0.040	801.96	12.00	-0.019	801.73	12.00	-0.019	801.50	-0.040	12.00	801.02	
1048+50.00	801.70	5.00	-0.040	801.90	12.00	-0.019	801.67	12.00	-0.019	801.44	-0.040	12.00	800.96	
1048+75.00	801.66	5.00	-0.040	801.86	12.00	-0.019	801.63	12.00	-0.019	801.40	-0.040	12.00	800.92	
1049+00.00	801.65	5.00	-0.040	801.85	12.00	-0.019	801.62	12.00	-0.019	801.39	-0.040	12.00	800.91	
1049+25.00	801.65	5.00	-0.040	801.85	12.00	-0.019	801.62	12.00	-0.019	801.39	-0.040	12.00	800.91	
1049+50.00	801.69	5.00	-0.040	801.89	12.00	-0.019	801.66	12.00	-0.019	801.43	-0.040	12.00	800.95	
1049+75.00	801.75	5.00	-0.040	801.95	12.00	-0.019	801.72	12.00	-0.019	801.49	-0.040	12.00	801.01	
1050+00.00	801.81	5.00	-0.040	802.01	12.00	-0.019	801.78	12.00	-0.019	801.55	-0.040	12.00	801.07	
1050+25.00	801.86	5.00	-0.040	802.06	12.00	-0.019	801.83	12.00	-0.019	801.60	-0.040	12.00	801.12	
1050+50.00	801.89	5.00	-0.040	802.09	12.00	-0.019	801.86	12.00	-0.019	801.63	-0.040	12.00	801.15	
1050+75.00	801.91	5.00	-0.040	802.11	12.00	-0.019	801.88	12.00	-0.019	801.65	-0.040	12.00	801.17	
1051+00.00	801.91	5.00	-0.040	802.11	12.00	-0.019	801.88	12.00	-0.019	801.65	-0.040	12.00	801.17	
1051+25.00	801.89	5.00	-0.040	802.09	12.00	-0.019	801.86	12.00	-0.019	801.63	-0.040	12.00	801.15	
1051+50.00	801.86	5.00	-0.040	802.06	12.00	-0.019	801.83	12.00	-0.019	801.60	-0.040	12.00	801.12	
1051+75.00	801.82	5.00	-0.040	802.02	12.00	-0.019	801.79	12.00	-0.019	801.56	-0.040	12.00	801.08	
1052+00.00	801.76	5.00	-0.040	801.96	12.00	-0.019	801.73	12.00	-0.019	801.50	-0.040	12.00	801.02	
1052+25.00	801.68	5.00	-0.040	801.88	12.00	-0.019	801.65	12.00	-0.019	801.42	-0.040	12.00	800.94	
1052+50.00	801.60	5.00	-0.040	801.80	12.00	-0.019	801.57	12.00	-0.019	801.34	-0.040	12.00	800.86	
1052+73.22 BACK	801.52	5.00	-0.040	801.72	12.00	-0.019	801.49	12.00	-0.019	801.26	-0.040	12.00	800.78	P.C.C. STA. 1052+73.22
0+00.00 AHEAD	801.52	5.00	-0.040	801.72	12.00	-0.019	801.49	12.00	-0.019	801.26	-0.040	12.00	800.78	
0+25.00	801.44	5.00	-0.040	801.64	12.00	-0.019	801.41	12.00	-0.019	801.18	-0.040	12.00	800.70	
0+50.00	801.35	5.00	-0.040	801.55	12.00	-0.019	801.32	12.00	-0.019	801.09	-0.040	12.00	800.61	
0+75.00	801.27	5.00	-0.040	801.47	12.00	-0.019	801.24	12.00	-0.019	801.01	-0.040	12.00	800.53	
1+00.00	801.19	5.00	-0.040	801.39	12.00	-0.019	801.16	12.00	-0.019	800.93	-0.040	12.00	800.45	
1+25.00	801.10	5.00	-0.040	801.30	12.00	-0.019	801.07	12.00	-0.019	800.84	-0.040	12.00	800.36	
1+50.00	801.02	5.00	-0.040	801.22	12.00	-0.019	800.99	12.00	-0.019	800.76	-0.040	12.00	800.28	
1+75.00	800.94	5.00	-0.040	801.14	12.00	-0.019	800.91	12.00	-0.019	800.68	-0.040	12.00	800.20	
2+00.00	800.85	5.00	-0.040	801.05	12.00	-0.019	800.82	12.00	-0.019	800.59	-0.040	12.00	800.11	
2+25.00	800.77	5.00	-0.040	800.97	12.00	-0.019	800.74	12.00	-0.019	800.51	-0.040	12.00	800.03	
2+50.00	800.69	5.00	-0.040	800.89	12.00	-0.019	800.66	12.00	-0.019	800.43	-0.040	12.00	799.95	
2+75.00	800.60	5.00	-0.040	800.80	12.00	-0.019	800.57	12.00	-0.019	800.34	-0.040	12.00	799.86	
3+00.00	800.52	5.00	-0.040	800.72	12.00	-0.019	800.49	12.00	-0.019	800.26	-0.040	12.00	799.78	
3+21.97	800.45	5.00	-0.040	800.65	12.00	-0.019	800.42	12.00	SEE SHEET XX FOR PAVEMENT DETAILS					BEGIN ACCELERATION LANE
3+25.00	800.44	5.00	-0.040	800.64	12.00	-0.019	800.41	12.00						
3+50.00	800.35	5.00	-0.040	800.55	12.00	-0.019	800.32	12.00						
3+75.00	800.27	5.00	-0.040	800.47	12.00	-0.019	800.24	12.00						
4+00.00	800.19	5.00	-0.040	800.39	12.00	-0.019	800.16	12.00						
4+25.00	800.10	5.00	-0.040	800.30	12.00	-0.019	800.07	12.00						
4+50.00	800.02	5.00	-0.040	800.22	12.00	-0.019	799.99	12.00						

CALCULATED
C.Y.
CHECKED

SUPERELEVATION TABLE (I.R. 90 EASTBOUND LANES)

LAK-90-21.40
ATB-90-0.00

97
498

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 1047+58.38														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
4+75.00	799.94	5.00	-0.040	800.14	12.00	-0.019	799.91	12.00						
5+00.00	799.85	5.00	-0.040	800.05	12.00	-0.019	799.82	12.00						
5+25.00	799.77	5.00	-0.040	799.97	12.00	-0.019	799.74	12.00						
5+50.00	799.68	5.00	-0.040	799.88	12.00	-0.019	799.65	12.00						
5+75.00	799.60	5.00	-0.040	799.80	12.00	-0.019	799.57	12.00						
6+00.00	799.52	5.00	-0.040	799.72	12.00	-0.019	799.49	12.00						
6+25.00	799.43	5.00	-0.040	799.63	12.00	-0.019	799.40	12.00						
6+50.00	799.35	5.00	-0.040	799.55	12.00	-0.019	799.32	12.00						
6+75.00	799.27	5.00	-0.040	799.47	12.00	-0.019	799.24	12.00						
7+00.00	799.18	5.00	-0.040	799.38	12.00	-0.019	799.15	12.00						
7+25.00	799.10	5.00	-0.040	799.30	12.00	-0.019	799.07	12.00						
7+50.00	799.02	5.00	-0.040	799.22	12.00	-0.019	798.99	12.00						
7+75.00	798.97	5.00	-0.040	799.17	12.00	-0.019	798.94	12.00						
8+00.00	798.95	5.00	-0.040	799.15	12.00	-0.019	798.92	12.00						
8+25.00	798.96	5.00	-0.040	799.16	12.00	-0.019	798.93	12.00						
8+50.00	799.01	5.00	-0.040	799.21	12.00	-0.019	798.98	12.00						
8+75.00	799.08	5.00	-0.040	799.28	12.00	-0.019	799.05	12.00						
9+00.00	799.16	5.00	-0.040	799.36	12.00	-0.019	799.13	12.00						
9+25.00	799.23	5.00	-0.040	799.43	12.00	-0.019	799.20	12.00						
9+50.00	799.31	5.00	-0.040	799.51	12.00	-0.019	799.28	12.00						
9+75.00	799.39	5.00	-0.040	799.59	12.00	-0.019	799.36	12.00						
10+00.00	799.46	5.00	-0.040	799.66	12.00	-0.019	799.43	12.00						
10+25.00	799.54	5.00	-0.040	799.74	12.00	-0.019	799.51	12.00						
10+50.00	799.62	5.00	-0.040	799.82	12.00	-0.019	799.59	12.00						
10+75.00	799.69	5.00	-0.040	799.89	12.00	-0.019	799.66	12.00						
11+00.00	799.77	5.00	-0.040	799.97	12.00	-0.019	799.74	12.00						
11+25.00	799.85	5.00	-0.040	800.05	12.00	-0.019	799.82	12.00						
11+50.00	799.93	5.00	-0.040	800.13	12.00	-0.019	799.90	12.00						
11+75.00	800.00	5.00	-0.040	800.20	12.00	-0.019	799.97	12.00						
12+00.00	800.08	5.00	-0.040	800.28	12.00	-0.019	800.05	12.00						
12+25.00	800.16	5.00	-0.040	800.36	12.00	-0.019	800.13	12.00						
12+50.00	800.23	5.00	-0.040	800.43	12.00	-0.019	800.20	12.00						
12+75.00	800.31	5.00	-0.040	800.51	12.00	-0.019	800.28	12.00						
13+00.00	800.39	5.00	-0.040	800.59	12.00	-0.019	800.36	12.00						
13+25.00	800.46	5.00	-0.040	800.66	12.00	-0.019	800.43	12.00						
13+50.00	800.54	5.00	-0.040	800.74	12.00	-0.019	800.51	12.00						
13+75.00	800.62	5.00	-0.040	800.82	12.00	-0.019	800.59	12.00						
14+00.00	800.69	5.00	-0.040	800.89	12.00	-0.019	800.66	12.00						
14+25.00	800.77	5.00	-0.040	800.97	12.00	-0.019	800.74	12.00						
14+50.00	800.85	5.00	-0.040	801.05	12.00	-0.019	800.82	12.00						
14+75.00	800.92	5.00	-0.040	801.12	12.00	-0.019	800.89	12.00						
15+00.00	801.00	5.00	-0.040	801.20	12.00	-0.019	800.97	12.00						
15+25.00	801.08	5.00	-0.040	801.28	12.00	-0.019	801.05	12.00						
15+50.00	801.15	5.00	-0.040	801.35	12.00	-0.019	801.12	12.00						
15+75.00	801.23	5.00	-0.040	801.43	12.00	-0.019	801.20	12.00						
16+00.00	801.31	5.00	-0.040	801.51	12.00	-0.019	801.28	12.00						
16+25.00	801.38	5.00	-0.040	801.58	12.00	-0.019	801.35	12.00						
16+50.00	801.46	5.00	-0.040	801.66	12.00	-0.019	801.43	12.00						
16+70.03	801.52	5.00	-0.040	801.72	12.00	-0.019	801.49	12.00						END ACCELERATION LANE
16+75.00	801.54	5.00	-0.040	801.74	12.00	-0.019	801.51	12.00	-0.019	801.28	-0.040	12.00	800.80	
17+00.00	801.61	5.00	-0.040	801.81	12.00	-0.019	801.58	12.00	-0.019	801.35	-0.040	12.00	800.87	
17+25.00	801.69	5.00	-0.040	801.89	12.00	-0.019	801.66	12.00	-0.019	801.43	-0.040	12.00	800.95	
17+50.00	801.77	5.00	-0.040	801.97	12.00	-0.019	801.74	12.00	-0.019	801.51	-0.040	12.00	801.03	
17+75.00	801.84	5.00	-0.040	802.04	12.00	-0.019	801.81	12.00	-0.019	801.58	-0.040	12.00	801.10	
18+00.00	801.92	5.00	-0.040	802.12	12.00	-0.019	801.89	12.00	-0.019	801.66	-0.040	12.00	801.18	
18+25.00	802.00	5.00	-0.040	802.20	12.00	-0.019	801.97	12.00	-0.019	801.74	-0.040	12.00	801.26	
18+50.00	802.08	5.00	-0.040	802.28	12.00	-0.019	802.05	12.00	-0.019	801.82	-0.040	12.00	801.34	
18+75.00	802.15	5.00	-0.040	802.35	12.00	-0.019	802.12	12.00	-0.019	801.89	-0.040	12.00	801.41	
19+00.00	802.23	5.00	-0.040	802.43	12.00	-0.019	802.20	12.00	-0.019	801.97	-0.040	12.00	801.49	
19+25.00	802.31	5.00	-0.040	802.51	12.00	-0.019	802.28	12.00	-0.019	802.05	-0.040	12.00	801.57	
19+50.00	802.38	5.00	-0.040	802.58	12.00	-0.019	802.35	12.00	-0.019	802.12	-0.040	12.00	801.64	
19+75.00	802.46	5.00	-0.040	802.66	12.00	-0.019	802.43	12.00	-0.019	802.20	-0.040	12.00	801.72	
20+00.00	802.54	5.00	-0.040	802.74	12.00	-0.019	802.51	12.00	-0.019	802.28	-0.040	12.00	801.80	
20+25.00	802.60	5.00	-0.040	802.80	12.00	-0.019	802.57	12.00	-0.019	802.34	-0.040	12.00	801.86	
20+50.00	802.66	5.00	-0.040	802.86	12.00	-0.019	802.63	12.00	-0.019	802.40	-0.040	12.00	801.92	
20+75.00	802.70	5.00	-0.040	802.90	12.00	-0.019	802.67	12.00	-0.019	802.44	-0.040	12.00	801.96	
21+00.00	802.72	5.00	-0.040	802.92	12.00	-0.019	802.69	12.00	-0.019	802.46	-0.040	12.00	801.98	
21+25.00	802.73	5.00	-0.040	802.93	12.00	-0.019	802.70	12.00	-0.019	802.47	-0.040	12.00	801.99	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 1047+58.38														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
21+50.00	802.72	5.00	-0.040	802.92	12.00	-0.019	802.69	12.00	-0.019	802.46	-0.040	12.00	801.98	
21+75.00	802.70	5.00	-0.040	802.90	12.00	-0.019	802.67	12.00	-0.019	802.44	-0.040	12.00	801.96	
22+00.00	802.66	5.00	-0.040	802.86	12.00	-0.019	802.63	12.00	-0.019	802.40	-0.040	12.00	801.92	
22+25.00	802.60	5.00	-0.040	802.80	12.00	-0.019	802.57	12.00	-0.019	802.34	-0.040	12.00	801.86	
22+50.00	802.54	5.00	-0.040	802.74	12.00	-0.019	802.51	12.00	-0.019	802.28	-0.040	12.00	801.80	
22+75.00	802.45	5.00	-0.040	802.65	12.00	-0.019	802.42	12.00	-0.019	802.19	-0.040	12.00	801.71	
23+00.00	802.35	5.00	-0.040	802.55	12.00	-0.019	802.32	12.00	-0.019	802.09	-0.040	12.00	801.61	
23+25.00	802.24	5.00	-0.040	802.44	12.00	-0.019	802.21	12.00	-0.019	801.98	-0.040	12.00	801.50	
23+50.00	802.10	5.00	-0.040	802.30	12.00	-0.019	802.07	12.00	-0.019	801.84	-0.040	12.00	801.36	
23+75.00	801.96	5.00	-0.040	802.16	12.00	-0.019	801.93	12.00	-0.019	801.70	-0.040	12.00	801.22	
24+00.00	801.80	5.00	-0.040	802.00	12.00	-0.019	801.77	12.00	-0.019	801.54	-0.040	12.00	801.06	
24+25.00	801.63	5.00	-0.040	801.83	12.00	-0.019	801.60	12.00	-0.019	801.37	-0.040	12.00	800.89	
24+50.00	801.46	5.00	-0.040	801.66	12.00	-0.019	801.43	12.00	-0.019	801.20	-0.040	12.00	800.72	
24+75.00	801.29	5.00	-0.040	801.49	12.00	-0.019	801.26	12.00	-0.019	801.03	-0.040	12.00	800.55	
25+00.00	801.12	5.00	-0.040	801.32	12.00	-0.019	801.09	12.00	-0.019	800.86	-0.040	12.00	800.38	
25+25.00	800.95	5.00	-0.040	801.15	12.00	-0.019	800.92	12.00	-0.019	800.69	-0.040	12.00	800.21	
25+50.00	800.78	5.00	-0.040	800.98	12.00	-0.019	800.75	12.00	-0.019	800.52	-0.040	12.00	800.04	
25+75.00	800.61	5.00	-0.040	800.81	12.00	-0.019	800.58	12.00	-0.019	800.35	-0.040	12.00	799.87	
26+00.00	800.44	5.00	-0.040	800.64	12.00	-0.019	800.41	12.00	-0.019	800.18	-0.040	12.00	799.70	
26+25.00	800.28	5.00	-0.040	800.48	12.00	-0.019	800.25	12.00	-0.019	800.02	-0.040	12.00	799.54	
26+50.00	800.11	5.00	-0.040	800.31	12.00	-0.019	800.08	12.00	-0.019	799.85	-0.040	12.00	799.37	
26+75.00	799.94	5.00	-0.040	800.14	12.00	-0.019	799.91	12.00	-0.019	799.68	-0.040	12.00	799.20	
27+00.00	799.77	5.00	-0.040	799.97	12.00	-0.019	799.74	12.00	-0.019	799.51	-0.040	12.00	799.03	
27+25.00	799.60	5.00	-0.040	799.80	12.00	-0.019	799.57	12.00	-0.019	799.34	-0.040	12.00	798.86	
27+50.00	799.43	5.00	-0.040	799.63	12.00	-0.019	799.40	12.00	-0.019	799.17	-0.040	12.00	798.69	
27+75.00	799.26	5.00	-0.040	799.46	12.00	-0.019	799.23	12.00	-0.019	799.00	-0.040	12.00	798.52	
28+00.00	799.09	5.00	-0.040	799.29	12.00	-0.019	799.06	12.00	-0.019	798.83	-0.040	12.00	798.35	
28+25.00	798.92	5.00	-0.040	799.12	12.00	-0.019	798.89	12.00	-0.019	798.66	-0.040	12.00	798.18	
28+50.00	798.75	5.00	-0.040	798.95	12.00	-0.019	798.72	12.00	-0.019	798.49	-0.040	12.00	798.01	
28+75.00	798.58	5.00	-0.040	798.78	12.00	-0.019	798.55	12.00	-0.019	798.32	-0.040	12.00	797.84	
29+00.00	798.42	5.00	-0.040	798.62	12.00	-0.019	798.39	12.00	-0.019	798.16	-0.040	12.00	797.68	
29+25.00	798.25	5.00	-0.040	798.45	12.00	-0.019	798.22	12.00	-0.019	797.99	-0.040	12.00	797.51	
29+50.00	798.08	5.00	-0.040	798.28	12.00	-0.019	798.05	12.00	-0.019	797.82	-0.040	12.00	797.34	
29+75.00	797.91	5.00	-0.040	798.11	12.00	-0.019	797.88	12.00	-0.019	797.65	-0.040	12.00	797.17	
30+00.00	797.72	5.39	-0.040	797.94	12.00	-0.019	797.71	12.00	-0.019	797.48	-0.040	12.00	797.00	
30+25.00	797.52	6.27	-0.040	797.77	12.00	-0.019	797.54	12.00	-0.019	797.31	-0.040	12.00	796.83	
30+50.00	797.31	7.14	-0.040	797.60	12.00	-0.019	797.37	12.00	-0.019	797.14	-0.040	12.00	796.66	
30+75.00	797.11	8.02	-0.040	797.43	12.00	-0.019	797.20	12.00	-0.019	796.97	-0.040	12.00	796.49	
31+00.00	796.90	8.89	-0.040	797.26	12.00	-0.019	797.03	12.00	-0.019	796.80	-0.040	12.00	796.32	
31+25.00	796.70	9.77	-0.040	797.09	12.00	-0.019	796.86	12.00	-0.019	796.63	-0.040	12.00	796.15	MEDIAN U-TURN OPENING STA. 32+50.00
31+50.00	796.50	10.64	-0.040	796.93	12.00	-0.019	796.70	12.00	-0.019	796.47	-0.040	12.00	795.99	
31+75.00	796.30	11.52	-0.040	796.76	12.00	-0.019	796.53	12.00	-0.019	796.30	-0.040	12.00	795.82	
32+00.00	796.06	13.16	-0.040	796.59	12.00	-0.019	796.36	12.00	-0.019	796.13	-0.040	12.00	795.65	
32+25.00	795.39	25.65	-0.040	796.42	12.00	-0.019	796.19	12.00	-0.019	795.96	-0.040	12.00	795.48	
32+50.00	SEE CROSS SECTION		-0.040	796.25	12.00	-0.019	796.02	12.00	-0.019	795.79	-0.040	12.00	795.31	
32+75.00	795.78	7.54	-0.040	796.08	12.00	-0.019	795.85	12.00	-0.019	795.62	-0.040	12.00	795.14	
33+00.00	795.71	5.00	-0.040	795.91	12.00	-0.019	795.68	12.00	-0.019	795.45	-0.040	12.00	794.97	
33+25.00	795.54	5.00	-0.040	795.74	12.00	-0.019	795.51	12.00	-0.019	795.28	-0.040	12.00	794.80	
33+50.00	795.37	5.00	-0.040	795.57	12.00	-0.019	795.34	12.00	-0.019	795.11	-0.040	12.00	794.63	
33+75.00	795.20	5.00	-0.040	795.40	12.00	-0.019	795.17	12.00	-0.019	794.94	-0.040	12.00	794.46	
34+00.00	795.03	5.00	-0.040	795.23	12.00	-0.019	795.00	12.00	-0.019	794.77	-0.040	12.00	794.29	
34+25.00	794.87	5.00	-0.040	795.07	12.00	-0.019	794.84	12.00	-0.019	794.61	-0.040	12.00	794.13	
34+50.00	794.70	5.00	-0.040	794.90	12.00	-0.019	794.67	12.00	-0.019	794.44	-0.040	12.00	793.96	
34+75.00	794.53	5.00	-0.040	794.73	12.00	-0.019	794.50	12.00	-0.019	794.27	-0.040	12.00	793.79	
35+00.00	794.36	5.00	-0.040	794.56	12.00	-0.019	794.33	12.00	-0.019	794.10	-0.040	12.00	793.62	
35+25.00	794.19	5.00	-0.040	794.39	12.00	-0.019	794.16	12.00	-0.019	793.93	-0.040	12.00	793.45	
35+50.00	794.02	5.00	-0.040	794.22	12.00	-0.019	793.99	12.00	-0.019	793.76	-0.040	12.00	793.28	
35+75.00	793.85	5.00	-0.040	794.05	12.00	-0.019	793.82	12.00	-0.019	793.59	-0.040	12.00	793.11	
36+00.00	793.68	5.00	-0.040	793.88	12.00	-0.019	793.65	12.00	-0.019	793.42	-0.040	12.00	792.94	
36+25.00	793.51	5.00	-0.040	793.71	12.00	-0.019	793.48	12.00	-0.019	793.25	-0.040	12.00	792.77	
36+50.00	793.34	5.00	-0.040	793.54	12.00	-0.019	793.31	12.00	-0.019	793.08	-0.040	12.00	792.60	
36+75.00	793.17	5.00	-0.040	793.37	12.00	-0.019	793.14	12.00	-0.019	792.91	-0.040	12.00	792.43	
37+00.00	793.01	5.00	-0.040	793.21	12.00	-0.019	792.98	12.00	-0.019	792.75	-0.040	12.00	792.27	
37+25.00	792.84	5.00	-0.040	793.04	12.00	-0.019	792.81	12.00	-0.019	792.58	-0.040	12.00	792.10	
37+50.00	792.67	5.00	-0.040	792.87	12.00	-0.019	792.64	12.00	-0.019	792.41	-0.040	12.00	791.93	
37+75.00	792.50	5.00	-0.040	792.70	12.00	-0.019	792.47	12.00	-0.019	792.24	-0.040	12.00	791.76	
38+00.00	792.33	5.00	-0.040	792.53	12.00	-0.019	792.30	12.00	-0.019	792.07	-0.040	12.00	791.59	
38+25.00	792.16	5.00	-0.040	792.36	12.00	-0.019	792.13	12.00	-0.019	791.90	-0.040	12.00	791.42	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 1047+58.38														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
38+50.00	791.99	5.00	-0.040	792.19	12.00	-0.019	791.96	12.00	-0.019	791.73	-0.040	12.00	791.25	
38+75.00	791.82	5.00	-0.040	792.02	12.00	-0.019	791.79	12.00	-0.019	791.56	-0.040	12.00	791.08	
39+00.00	791.65	5.00	-0.040	791.85	12.00	-0.019	791.62	12.00	-0.019	791.39	-0.040	12.00	790.91	
39+25.00	791.48	5.00	-0.040	791.68	12.00	-0.019	791.45	12.00	-0.019	791.22	-0.040	12.00	790.74	
39+50.00	791.31	5.00	-0.040	791.51	12.00	-0.019	791.28	12.00	-0.019	791.05	-0.040	12.00	790.57	
39+75.00	791.16	5.00	-0.040	791.36	12.00	-0.019	791.13	12.00	-0.019	790.90	-0.040	12.00	790.42	
40+00.00	791.04	5.00	-0.040	791.24	12.00	-0.019	791.01	12.00	-0.019	790.78	-0.040	12.00	790.30	
40+25.00	790.96	5.00	-0.040	791.16	12.00	-0.019	790.93	12.00	-0.019	790.70	-0.040	12.00	790.22	
40+50.00	790.91	5.00	-0.040	791.11	12.00	-0.019	790.88	12.00	-0.019	790.65	-0.040	12.00	790.17	
40+75.00	790.89	5.00	-0.040	791.09	12.00	-0.019	790.86	12.00	-0.019	790.63	-0.040	12.00	790.15	
41+00.00	790.91	5.00	-0.040	791.11	12.00	-0.019	790.88	12.00	-0.019	790.65	-0.040	12.00	790.17	
41+25.00	790.96	5.00	-0.040	791.16	12.00	-0.019	790.93	12.00	-0.019	790.70	-0.040	12.00	790.22	
41+50.00	791.05	5.00	-0.040	791.25	12.00	-0.019	791.02	12.00	-0.019	790.79	-0.040	12.00	790.31	
41+63.26	791.11	5.00	-0.040	791.31	12.00	-0.019	791.08	12.00	-0.019	790.85	-0.040	12.00	790.37	END FULL SUPERELEVATION
41+75.00	791.17	5.00	-0.040	791.37	12.00	-0.016	791.18	12.00	-0.016	790.99	-0.040	12.00	790.51	
41+87.57 BACK	791.24	5.00	-0.040	791.44	12.00	-0.012	791.30	12.00	-0.016	791.10	-0.040	12.00	790.62	P.T. STA. 41+87.57
41+88.95 AHEAD	791.24	5.00	-0.040	791.44	12.00	-0.012	791.30	12.00	-0.016	791.10	-0.040	12.00	790.62	
42+00.00	791.31	5.00	-0.040	791.51	12.00	-0.009	791.40	12.00	-0.016	791.21	-0.040	12.00	790.73	
42+25.00	791.50	5.00	-0.040	791.70	12.00	-0.002	791.68	12.00	-0.016	791.49	-0.040	12.00	791.01	
42+50.00	791.72	5.00	-0.040	791.92	12.00	0.006	791.99	12.00	-0.016	791.80	-0.040	12.00	791.32	
42+75.00	791.95	5.00	-0.040	792.15	12.00	0.014	792.32	12.00	-0.016	792.13	-0.040	12.00	791.65	
42+78.64	791.99	5.00	-0.040	792.19	12.00	0.016	792.38	12.00	-0.016	792.18	-0.040	12.00	791.70	BEGIN NORMAL CROWN

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 1047+58.38														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
SEE SHEET XX FOR PAVEMENT DETAILS			804.79	12.00	-0.016	804.98	12.00	0.016	804.79	-0.040	5.00	804.59	1041+50.83	END NORMAL CROWN
			804.82	12.00	-0.008	804.91	12.00	0.016	804.72	-0.040	5.00	804.52	1041+75.00	
			804.83	12.00	0.000	804.83	12.00	0.016	804.64	-0.040	5.00	804.44	1042+00.00	
			804.84	12.00	0.007	804.76	12.00	0.016	804.57	-0.040	5.00	804.37	1042+25.00	
			804.86	12.00	0.012	804.71	12.00	0.016	804.52	-0.040	5.00	804.32	1042+42.93	PC STA.1042+42.93
			804.87	12.00	0.014	804.69	12.00	0.016	804.50	-0.040	5.00	804.30	1042+50.00	
			804.91	12.00	0.019	804.68	12.00	0.019	804.45	-0.040	5.00	804.25	1042+64.81	BEGIN FULL SUPERELEVATION
			804.88	12.00	0.019	804.65	12.00	0.019	804.42	-0.040	5.00	804.22	1042+75.00	
			804.84	12.00	0.019	804.61	12.00	0.019	804.38	-0.040	5.00	804.18	1042+87.94	END ACCELERATION LANE
804.33	12.00	-0.040	804.81	12.00	0.019	804.58	12.00	0.019	804.35	-0.040	5.00	804.15	1043+00.00	
804.25	12.00	-0.040	804.73	12.00	0.019	804.50	12.00	0.019	804.27	-0.040	5.00	804.07	1043+25.00	
804.18	12.00	-0.040	804.66	12.00	0.019	804.43	12.00	0.019	804.20	-0.040	5.00	804.00	1043+50.00	
804.09	12.00	-0.040	804.57	12.00	0.019	804.34	12.00	0.019	804.11	-0.040	5.00	803.91	1043+75.00	
803.98	12.00	-0.040	804.46	12.00	0.019	804.23	12.00	0.019	804.00	-0.040	5.00	803.80	1044+00.00	
803.84	12.00	-0.040	804.32	12.00	0.019	804.09	12.00	0.019	803.86	-0.040	5.00	803.66	1044+25.00	
803.68	12.00	-0.040	804.16	12.00	0.019	803.93	12.00	0.019	803.70	-0.040	5.00	803.50	1044+50.00	
803.50	12.00	-0.040	803.98	12.00	0.019	803.75	12.00	0.019	803.52	-0.040	5.00	803.32	1044+75.00	
803.29	12.00	-0.040	803.77	12.00	0.019	803.54	12.00	0.019	803.31	-0.040	5.00	803.11	1045+00.00	
803.05	12.00	-0.040	803.53	12.00	0.019	803.30	12.00	0.019	803.07	-0.040	5.00	802.87	1045+25.00	
802.79	12.00	-0.040	803.27	12.00	0.019	803.04	12.00	0.019	802.81	-0.040	5.00	802.61	1045+50.00	
802.52	12.00	-0.040	803.00	12.00	0.019	802.77	12.00	0.019	802.54	-0.040	5.00	802.34	1045+75.00	
802.25	12.00	-0.040	802.73	12.00	0.019	802.50	12.00	0.019	802.27	-0.040	5.00	802.07	1046+00.00	
801.97	12.00	-0.040	802.45	12.00	0.019	802.22	12.00	0.019	801.99	-0.040	5.00	801.79	1046+25.00	
801.70	12.00	-0.040	802.18	12.00	0.019	801.95	12.00	0.019	801.72	-0.040	5.00	801.52	1046+50.00	
801.43	12.00	-0.040	801.91	12.00	0.019	801.68	12.00	0.019	801.45	-0.040	5.00	801.25	1046+75.00	
801.16	12.00	-0.040	801.64	12.00	0.019	801.41	12.00	0.019	801.18	-0.040	5.00	800.98	1047+00.00	
800.89	12.00	-0.040	801.37	12.00	0.019	801.14	12.00	0.019	800.91	-0.040	5.00	800.71	1047+25.00	
800.61	12.00	-0.040	801.09	12.00	0.019	800.86	12.00	0.019	800.63	-0.040	5.00	800.43	1047+50.00	
800.37	12.00	-0.040	800.85	12.00	0.019	800.62	12.00	0.019	800.39	-0.040	5.00	800.19	1047+75.00	
800.15	12.00	-0.040	800.63	12.00	0.019	800.40	12.00	0.019	800.17	-0.040	5.00	799.97	1048+00.00	
799.97	12.00	-0.040	800.45	12.00	0.019	800.22	12.00	0.019	799.99	-0.040	5.00	799.79	1048+25.00	
799.82	12.00	-0.040	800.30	12.00	0.019	800.07	12.00	0.019	799.84	-0.040	5.00	799.64	1048+50.00	
799.71	12.00	-0.040	800.19	12.00	0.019	799.96	12.00	0.019	799.73	-0.040	5.00	799.53	1048+75.00	
799.63	12.00	-0.040	800.11	12.00	0.019	799.88	12.00	0.019	799.65	-0.040	5.00	799.45	1049+00.00	
799.58	12.00	-0.040	800.06	12.00	0.019	799.83	12.00	0.019	799.60	-0.040	5.00	799.40	1049+25.00	
799.57	12.00	-0.040	800.05	12.00	0.019	799.82	12.00	0.019	799.59	-0.040	5.00	799.39	1049+50.00	
799.59	12.00	-0.040	800.07	12.00	0.019	799.84	12.00	0.019	799.61	-0.040	5.00	799.41	1049+75.00	
799.65	12.00	-0.040	800.13	12.00	0.019	799.90	12.00	0.019	799.67	-0.040	5.00	799.47	1050+00.00	
799.73	12.00	-0.040	800.21	12.00	0.019	799.98	12.00	0.019	799.75	-0.040	5.00	799.55	1050+25.00	
799.86	12.00	-0.040	800.34	12.00	0.019	800.11	12.00	0.019	799.88	-0.040	5.00	799.68	1050+50.00	
800.00	12.00	-0.040	800.48	12.00	0.019	800.25	12.00	0.019	800.02	-0.040	5.00	799.82	1050+75.00	
800.15	12.00	-0.040	800.63	12.00	0.019	800.40	12.00	0.019	800.17	-0.040	5.00	799.97	1051+00.00	
800.29	12.00	-0.040	800.77	12.00	0.019	800.54	12.00	0.019	800.31	-0.040	5.00	800.11	1051+25.00	
800.44	12.00	-0.040	800.92	12.00	0.019	800.69	12.00	0.019	800.46	-0.040	5.00	800.26	1051+50.00	
800.58	12.00	-0.040	801.06	12.00	0.019	800.83	12.00	0.019	800.60	-0.040	5.00	800.40	1051+75.00	
800.71	12.00	-0.040	801.19	12.00	0.019	800.96	12.00	0.019	800.73	-0.040	5.00	800.53	1052+00.00	
800.80	12.00	-0.040	801.28	12.00	0.019	801.05	12.00	0.019	800.82	-0.040	5.00	800.62	1052+25.00	
800.88	12.00	-0.040	801.36	12.00	0.019	801.13	12.00	0.019	800.90	-0.040	5.00	800.70	1052+50.00	
800.93	12.00	-0.040	801.41	12.00	0.019	801.18	12.00	0.019	800.95	-0.040	5.00	800.75	1052+73.22 BACK	back and pcc station
800.93	12.00	-0.040	801.41	12.00	0.019	801.18	12.00	0.019	800.95	-0.040	5.00	800.75	0+00.00 AHEAD	ahead
800.95	12.00	-0.040	801.43	12.00	0.019	801.20	12.00	0.019	800.97	-0.040	5.00	800.77	0+25.00	
800.96	12.00	-0.040	801.44	12.00	0.019	801.21	12.00	0.019	800.98	-0.040	5.00	800.78	0+50.00	
800.94	12.00	-0.040	801.42	12.00	0.019	801.19	12.00	0.019	800.96	-0.040	5.00	800.76	0+75.00	
800.89	12.00	-0.040	801.37	12.00	0.019	801.14	12.00	0.019	800.91	-0.040	5.00	800.71	1+00.00	
800.83	12.00	-0.040	801.31	12.00	0.019	801.08	12.00	0.019	800.85	-0.040	5.00	800.65	1+25.00	
800.76	12.00	-0.040	801.24	12.00	0.019	801.01	12.00	0.019	800.78	-0.040	5.00	800.58	1+50.00	
800.69	12.00	-0.040	801.17	12.00	0.019	800.94	12.00	0.019	800.71	-0.040	5.00	800.51	1+75.00	
800.63	12.00	-0.040	801.11	12.00	0.019	800.88	12.00	0.019	800.65	-0.040	5.00	800.45	2+00.00	
800.56	12.00	-0.040	801.04	12.00	0.019	800.81	12.00	0.019	800.58	-0.040	5.00	800.38	2+25.00	
800.49	12.00	-0.040	800.97	12.00	0.019	800.74	12.00	0.019	800.51	-0.040	5.00	800.31	2+50.00	
800.43	12.00	-0.040	800.91	12.00	0.019	800.68	12.00	0.019	800.45	-0.040	5.00	800.25	2+75.00	
800.36	12.00	-0.040	800.84	12.00	0.019	800.61	12.00	0.019	800.38	-0.040	5.00	800.18	3+00.00	
800.29	12.00	-0.040	800.77	12.00	0.019	800.54	12.00	0.019	800.31	-0.040	5.00	800.11	3+25.00	
800.23	12.00	-0.040	800.71	12.00	0.019	800.48	12.00	0.019	800.25	-0.040	5.00	800.05	3+50.00	
800.16	12.00	-0.040	800.64	12.00	0.019	800.41	12.00	0.019	800.18	-0.040	5.00	799.98	3+75.00	
SEE SHEET XX FOR PAVEMENT DETAILS			800.62	12.00	0.019	800.39	12.00	0.019	800.16	-0.040	5.00	799.96	3+84.07	BEGIN DECELERATION LANE
			800.58	12.00	0.019	800.35	12.00	0.019	800.12	-0.040	5.00	799.92	4+00.00	
			800.51	12.00	0.019	800.28	12.00	0.019	800.05	-0.040	5.00	799.85	4+25.00	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 1047+58.38														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
			800.44	12.00	0.019	800.21	12.00	0.019	799.98	-0.040	5.00	799.78	4+50.00	
			800.38	12.00	0.019	800.15	12.00	0.019	799.92	-0.040	5.00	799.72	4+75.00	
			800.31	12.00	0.019	800.08	12.00	0.019	799.85	-0.040	5.00	799.65	5+00.00	
			800.24	12.00	0.019	800.01	12.00	0.019	799.78	-0.040	5.00	799.58	5+25.00	
			800.18	12.00	0.019	799.95	12.00	0.019	799.72	-0.040	5.00	799.52	5+50.00	
			800.11	12.00	0.019	799.88	12.00	0.019	799.65	-0.040	5.00	799.45	5+75.00	
			800.04	12.00	0.019	799.81	12.00	0.019	799.58	-0.040	5.00	799.38	6+00.00	
			799.98	12.00	0.019	799.75	12.00	0.019	799.52	-0.040	5.00	799.32	6+25.00	
			799.91	12.00	0.019	799.68	12.00	0.019	799.45	-0.040	5.00	799.25	6+50.00	
			799.84	12.00	0.019	799.61	12.00	0.019	799.38	-0.040	5.00	799.18	6+75.00	
			799.78	12.00	0.019	799.55	12.00	0.019	799.32	-0.040	5.00	799.12	7+00.00	
			799.71	12.00	0.019	799.48	12.00	0.019	799.25	-0.040	5.00	799.05	7+25.00	
			799.65	12.00	0.019	799.42	12.00	0.019	799.19	-0.040	5.00	798.99	7+50.00	
			799.61	12.00	0.019	799.38	12.00	0.019	799.15	-0.040	5.00	798.95	7+75.00	
			799.60	12.00	0.019	799.37	12.00	0.019	799.14	-0.040	5.00	798.94	8+00.00	
			799.62	12.00	0.019	799.39	12.00	0.019	799.16	-0.040	5.00	798.96	8+25.00	
			799.67	12.00	0.019	799.44	12.00	0.019	799.21	-0.040	5.00	799.01	8+50.00	
			799.74	12.00	0.019	799.51	12.00	0.019	799.28	-0.040	5.00	799.08	8+75.00	
			799.82	12.00	0.019	799.59	12.00	0.019	799.36	-0.040	5.00	799.16	9+00.00	
			799.89	12.00	0.019	799.66	12.00	0.019	799.43	-0.040	5.00	799.23	9+25.00	
			799.97	12.00	0.019	799.74	12.00	0.019	799.51	-0.040	5.00	799.31	9+50.00	
			800.05	12.00	0.019	799.82	12.00	0.019	799.59	-0.040	5.00	799.39	9+75.00	
			800.12	12.00	0.019	799.89	12.00	0.019	799.66	-0.040	5.00	799.46	10+00.00	
			800.20	12.00	0.019	799.97	12.00	0.019	799.74	-0.040	5.00	799.54	10+25.00	
			800.28	12.00	0.019	800.05	12.00	0.019	799.82	-0.040	5.00	799.62	10+50.00	
			800.35	12.00	0.019	800.12	12.00	0.019	799.89	-0.040	5.00	799.69	10+75.00	
			800.43	12.00	0.019	800.20	12.00	0.019	799.97	-0.040	5.00	799.77	11+00.00	
			800.51	12.00	0.019	800.28	12.00	0.019	800.05	-0.040	5.00	799.85	11+25.00	
			800.59	12.00	0.019	800.36	12.00	0.019	800.13	-0.040	5.00	799.93	11+50.00	
			800.66	12.00	0.019	800.43	12.00	0.019	800.20	-0.040	5.00	800.00	11+75.00	
			800.74	12.00	0.019	800.51	12.00	0.019	800.28	-0.040	5.00	800.08	12+00.00	
			800.82	12.00	0.019	800.59	12.00	0.019	800.36	-0.040	5.00	800.16	12+25.00	
			800.89	12.00	0.019	800.66	12.00	0.019	800.43	-0.040	5.00	800.23	12+50.00	
			800.97	12.00	0.019	800.74	12.00	0.019	800.51	-0.040	5.00	800.31	12+75.00	
			801.05	12.00	0.019	800.82	12.00	0.019	800.59	-0.040	5.00	800.39	13+00.00	
			801.12	12.00	0.019	800.89	12.00	0.019	800.66	-0.040	5.00	800.46	13+25.00	
			801.20	12.00	0.019	800.97	12.00	0.019	800.74	-0.040	5.00	800.54	13+50.00	
			801.28	12.00	0.019	801.05	12.00	0.019	800.82	-0.040	5.00	800.62	13+75.00	
			801.35	12.00	0.019	801.12	12.00	0.019	800.89	-0.040	5.00	800.69	14+00.00	
			801.43	12.00	0.019	801.20	12.00	0.019	800.97	-0.040	5.00	800.77	14+25.00	
			801.51	12.00	0.019	801.28	12.00	0.019	801.05	-0.040	5.00	800.85	14+50.00	
			801.58	12.00	0.019	801.35	12.00	0.019	801.12	-0.040	5.00	800.92	14+75.00	
			801.66	12.00	0.019	801.43	12.00	0.019	801.20	-0.040	5.00	801.00	15+00.00	
			801.74	12.00	0.019	801.51	12.00	0.019	801.28	-0.040	5.00	801.08	15+25.00	
			801.81	12.00	0.019	801.58	12.00	0.019	801.35	-0.040	5.00	801.15	15+50.00	
			801.89	12.00	0.019	801.66	12.00	0.019	801.43	-0.040	5.00	801.23	15+75.00	
801.49	12.00	-0.040	801.97	12.00	0.019	801.74	12.00	0.019	801.51	-0.040	5.00	801.31	16+00.00	END DECELERATION LANE
801.56	12.00	-0.040	802.04	12.00	0.019	801.81	12.00	0.019	801.58	-0.040	5.00	801.38	16+25.00	
801.64	12.00	-0.040	802.12	12.00	0.019	801.89	12.00	0.019	801.66	-0.040	5.00	801.46	16+50.00	
801.72	12.00	-0.040	802.20	12.00	0.019	801.97	12.00	0.019	801.74	-0.040	5.00	801.54	16+75.00	
801.79	12.00	-0.040	802.27	12.00	0.019	802.04	12.00	0.019	801.81	-0.040	5.00	801.61	17+00.00	
801.87	12.00	-0.040	802.35	12.00	0.019	802.12	12.00	0.019	801.89	-0.040	5.00	801.69	17+25.00	
801.95	12.00	-0.040	802.43	12.00	0.019	802.20	12.00	0.019	801.97	-0.040	5.00	801.77	17+50.00	
802.02	12.00	-0.040	802.50	12.00	0.019	802.27	12.00	0.019	802.04	-0.040	5.00	801.84	17+75.00	
802.10	12.00	-0.040	802.58	12.00	0.019	802.35	12.00	0.019	802.12	-0.040	5.00	801.92	18+00.00	
802.18	12.00	-0.040	802.66	12.00	0.019	802.43	12.00	0.019	802.20	-0.040	5.00	802.00	18+25.00	
802.26	12.00	-0.040	802.74	12.00	0.019	802.51	12.00	0.019	802.28	-0.040	5.00	802.08	18+50.00	
802.33	12.00	-0.040	802.81	12.00	0.019	802.58	12.00	0.019	802.35	-0.040	5.00	802.15	18+75.00	
802.41	12.00	-0.040	802.89	12.00	0.019	802.66	12.00	0.019	802.43	-0.040	5.00	802.23	19+00.00	
802.49	12.00	-0.040	802.97	12.00	0.019	802.74	12.00	0.019	802.51	-0.040	5.00	802.31	19+25.00	
802.56	12.00	-0.040	803.04	12.00	0.019	802.81	12.00	0.019	802.58	-0.040	5.00	802.38	19+50.00	
802.64	12.00	-0.040	803.12	12.00	0.019	802.89	12.00	0.019	802.66	-0.040	5.00	802.46	19+75.00	
802.72	12.00	-0.040	803.20	12.00	0.019	802.97	12.00	0.019	802.74	-0.040	5.00	802.54	20+00.00	
802.78	12.00	-0.040	803.26	12.00	0.019	803.03	12.00	0.019	802.80	-0.040	5.00	802.60	20+25.00	
802.84	12.00	-0.040	803.32	12.00	0.019	803.09	12.00	0.019	802.86	-0.040	5.00	802.66	20+50.00	
802.88	12.00	-0.040	803.36	12.00	0.019	803.13	12.00	0.019	802.90	-0.040	5.00	802.70	20+75.00	
802.90	12.00	-0.040	803.38	12.00	0.019	803.15	12.00	0.019	802.92	-0.040	5.00	802.72	21+00.00	
802.91	12.00	-0.040	803.39	12.00	0.019	803.16	12.00	0.019	802.93	-0.040	5.00	802.73	21+25.00	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 1047+58.38														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
802.90	12.00	-0.040	803.38	12.00	0.019	803.15	12.00	0.019	802.92	-0.040	5.00	802.72	21+50.00	
802.88	12.00	-0.040	803.36	12.00	0.019	803.13	12.00	0.019	802.90	-0.040	5.00	802.70	21+75.00	
802.84	12.00	-0.040	803.32	12.00	0.019	803.09	12.00	0.019	802.86	-0.040	5.00	802.66	22+00.00	
802.78	12.00	-0.040	803.26	12.00	0.019	803.03	12.00	0.019	802.80	-0.040	5.00	802.60	22+25.00	
802.72	12.00	-0.040	803.20	12.00	0.019	802.97	12.00	0.019	802.74	-0.040	5.00	802.54	22+50.00	
802.63	12.00	-0.040	803.11	12.00	0.019	802.88	12.00	0.019	802.65	-0.040	5.00	802.45	22+75.00	
802.53	12.00	-0.040	803.01	12.00	0.019	802.78	12.00	0.019	802.55	-0.040	5.00	802.35	23+00.00	
802.42	12.00	-0.040	802.90	12.00	0.019	802.67	12.00	0.019	802.44	-0.040	5.00	802.24	23+25.00	
802.28	12.00	-0.040	802.76	12.00	0.019	802.53	12.00	0.019	802.30	-0.040	5.00	802.10	23+50.00	
802.14	12.00	-0.040	802.62	12.00	0.019	802.39	12.00	0.019	802.16	-0.040	5.00	801.96	23+75.00	
801.98	12.00	-0.040	802.46	12.00	0.019	802.23	12.00	0.019	802.00	-0.040	5.00	801.80	24+00.00	
801.81	12.00	-0.040	802.29	12.00	0.019	802.06	12.00	0.019	801.83	-0.040	5.00	801.63	24+25.00	
801.64	12.00	-0.040	802.12	12.00	0.019	801.89	12.00	0.019	801.66	-0.040	5.00	801.46	24+50.00	
801.47	12.00	-0.040	801.95	12.00	0.019	801.72	12.00	0.019	801.49	-0.040	5.00	801.29	24+75.00	
801.30	12.00	-0.040	801.78	12.00	0.019	801.55	12.00	0.019	801.32	-0.040	5.00	801.12	25+00.00	
801.13	12.00	-0.040	801.61	12.00	0.019	801.38	12.00	0.019	801.15	-0.040	5.00	800.95	25+25.00	
800.96	12.00	-0.040	801.44	12.00	0.019	801.21	12.00	0.019	800.98	-0.040	5.00	800.78	25+50.00	
800.79	12.00	-0.040	801.27	12.00	0.019	801.04	12.00	0.019	800.81	-0.040	5.00	800.61	25+75.00	
800.62	12.00	-0.040	801.10	12.00	0.019	800.87	12.00	0.019	800.64	-0.040	5.00	800.44	26+00.00	
800.46	12.00	-0.040	800.94	12.00	0.019	800.71	12.00	0.019	800.48	-0.040	5.00	800.28	26+25.00	
800.29	12.00	-0.040	800.77	12.00	0.019	800.54	12.00	0.019	800.31	-0.040	5.00	800.11	26+50.00	
800.12	12.00	-0.040	800.60	12.00	0.019	800.37	12.00	0.019	800.14	-0.040	5.00	799.94	26+75.00	
799.95	12.00	-0.040	800.43	12.00	0.019	800.20	12.00	0.019	799.97	-0.040	5.00	799.77	27+00.00	
799.78	12.00	-0.040	800.26	12.00	0.019	800.03	12.00	0.019	799.80	-0.040	5.00	799.60	27+25.00	
799.61	12.00	-0.040	800.09	12.00	0.019	799.86	12.00	0.019	799.63	-0.040	5.00	799.43	27+50.00	
799.44	12.00	-0.040	799.92	12.00	0.019	799.69	12.00	0.019	799.46	-0.040	5.00	799.26	27+75.00	
799.27	12.00	-0.040	799.75	12.00	0.019	799.52	12.00	0.019	799.29	-0.040	5.00	799.09	28+00.00	
799.10	12.00	-0.040	799.58	12.00	0.019	799.35	12.00	0.019	799.12	-0.040	5.00	798.92	28+25.00	
798.93	12.00	-0.040	799.41	12.00	0.019	799.18	12.00	0.019	798.95	-0.040	5.00	798.75	28+50.00	
798.76	12.00	-0.040	799.24	12.00	0.019	799.01	12.00	0.019	798.78	-0.040	5.00	798.58	28+75.00	
798.60	12.00	-0.040	799.08	12.00	0.019	798.85	12.00	0.019	798.62	-0.040	5.00	798.42	29+00.00	
798.43	12.00	-0.040	798.91	12.00	0.019	798.68	12.00	0.019	798.45	-0.040	5.00	798.25	29+25.00	
798.26	12.00	-0.040	798.74	12.00	0.019	798.51	12.00	0.019	798.28	-0.040	5.00	798.08	29+50.00	
798.09	12.00	-0.040	798.57	12.00	0.019	798.34	12.00	0.019	798.11	-0.040	5.00	797.91	29+75.00	
797.92	12.00	-0.040	798.40	12.00	0.019	798.17	12.00	0.019	797.94	-0.040	5.00	797.74	30+00.00	
797.75	12.00	-0.040	798.23	12.00	0.019	798.00	12.00	0.019	797.77	-0.040	5.00	797.57	30+25.00	
797.58	12.00	-0.040	798.06	12.00	0.019	797.83	12.00	0.019	797.60	-0.040	5.00	797.40	30+50.00	
797.41	12.00	-0.040	797.89	12.00	0.019	797.66	12.00	0.019	797.43	-0.040	5.00	797.23	30+75.00	
797.24	12.00	-0.040	797.72	12.00	0.019	797.49	12.00	0.019	797.26	-0.040	5.00	797.06	31+00.00	
797.07	12.00	-0.040	797.55	12.00	0.019	797.32	12.00	0.019	797.09	-0.040	5.00	796.89	31+25.00	
796.91	12.00	-0.040	797.39	12.00	0.019	797.16	12.00	0.019	796.93	-0.040	5.00	796.73	31+50.00	
796.74	12.00	-0.040	797.22	12.00	0.019	796.99	12.00	0.019	796.76	-0.040	5.00	796.56	31+75.00	
796.57	12.00	-0.040	797.05	12.00	0.019	796.82	12.00	0.019	796.59	-0.040	5.00	796.39	32+00.00	
796.40	12.00	-0.040	796.88	12.00	0.019	796.65	12.00	0.019	796.42	-0.040	7.56	796.12	32+25.00	
796.23	12.00	-0.040	796.71	12.00	0.019	796.48	12.00	0.019	796.25	-0.040	SEE CROSS-SECTION		32+50.00	
796.06	12.00	-0.040	796.54	12.00	0.019	796.31	12.00	0.019	796.08	-0.040	25.74	795.05	32+75.00	
795.89	12.00	-0.040	796.37	12.00	0.019	796.14	12.00	0.019	795.91	-0.040	13.19	795.38	33+00.00	
795.72	12.00	-0.040	796.20	12.00	0.019	795.97	12.00	0.019	795.74	-0.040	11.52	795.28	33+25.00	
795.55	12.00	-0.040	796.03	12.00	0.019	795.80	12.00	0.019	795.57	-0.040	10.65	795.14	33+50.00	MEDIAN U-TURN OPENING STA. 32+50.00
795.38	12.00	-0.040	795.86	12.00	0.019	795.63	12.00	0.019	795.40	-0.040	9.77	795.01	33+75.00	
795.21	12.00	-0.040	795.69	12.00	0.019	795.46	12.00	0.019	795.23	-0.040	8.90	794.87	34+00.00	
795.05	12.00	-0.040	795.53	12.00	0.019	795.30	12.00	0.019	795.07	-0.040	8.02	794.75	34+25.00	
794.88	12.00	-0.040	795.36	12.00	0.019	795.13	12.00	0.019	794.90	-0.040	7.15	794.61	34+50.00	
794.71	12.00	-0.040	795.19	12.00	0.019	794.96	12.00	0.019	794.73	-0.040	6.27	794.48	34+75.00	
794.54	12.00	-0.040	795.02	12.00	0.019	794.79	12.00	0.019	794.56	-0.040	5.40	794.34	35+00.00	
794.37	12.00	-0.040	794.85	12.00	0.019	794.62	12.00	0.019	794.39	-0.040	5.00	794.19	35+25.00	
794.20	12.00	-0.040	794.68	12.00	0.019	794.45	12.00	0.019	794.22	-0.040	5.00	794.02	35+50.00	
794.03	12.00	-0.040	794.51	12.00	0.019	794.28	12.00	0.019	794.05	-0.040	5.00	793.85	35+75.00	
793.86	12.00	-0.040	794.34	12.00	0.019	794.11	12.00	0.019	793.88	-0.040	5.00	793.68	36+00.00	
793.69	12.00	-0.040	794.17	12.00	0.019	793.94	12.00	0.019	793.71	-0.040	5.00	793.51	36+25.00	
793.52	12.00	-0.040	794.00	12.00	0.019	793.77	12.00	0.019	793.54	-0.040	5.00	793.34	36+50.00	
793.35	12.00	-0.040	793.83	12.00	0.019	793.60	12.00	0.019	793.37	-0.040	5.00	793.17	36+75.00	
793.19	12.00	-0.040	793.67	12.00	0.019	793.44	12.00	0.019	793.21	-0.040	5.00	793.01	37+00.00	
793.02	12.00	-0.040	793.50	12.00	0.019	793.27	12.00	0.019	793.04	-0.040	5.00	792.84	37+25.00	
792.85	12.00	-0.040	793.33	12.00	0.019	793.10	12.00	0.019	792.87	-0.040	5.00	792.67	37+50.00	
792.68	12.00	-0.040	793.16	12.00	0.019	792.93	12.00	0.019	792.70	-0.040	5.00	792.50	37+75.00	
792.51	12.00	-0.040	792.99	12.00	0.019	792.76	12.00	0.019	792.53	-0.040	5.00	792.33	38+00.00	
792.34	12.00	-0.040	792.82	12.00	0.019	792.59	12.00	0.019	792.36	-0.040	5.00	792.16	38+25.00	

I.R. 90 WESTBOUND LANES CURVE P.I. STATION 1047+58.38														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
792.17	12.00	-0.040	792.65	12.00	0.019	792.42	12.00	0.019	792.19	-0.040	5.00	791.99	38+50.00	
792.00	12.00	-0.040	792.48	12.00	0.019	792.25	12.00	0.019	792.02	-0.040	5.00	791.82	38+75.00	
791.83	12.00	-0.040	792.31	12.00	0.019	792.08	12.00	0.019	791.85	-0.040	5.00	791.65	39+00.00	
791.66	12.00	-0.040	792.14	12.00	0.019	791.91	12.00	0.019	791.68	-0.040	5.00	791.48	39+25.00	
791.49	12.00	-0.040	791.97	12.00	0.019	791.74	12.00	0.019	791.51	-0.040	5.00	791.31	39+50.00	
791.34	12.00	-0.040	791.82	12.00	0.019	791.59	12.00	0.019	791.36	-0.040	5.00	791.16	39+75.00	
791.22	12.00	-0.040	791.70	12.00	0.019	791.47	12.00	0.019	791.24	-0.040	5.00	791.04	40+00.00	
791.14	12.00	-0.040	791.62	12.00	0.019	791.39	12.00	0.019	791.16	-0.040	5.00	790.96	40+25.00	
791.09	12.00	-0.040	791.57	12.00	0.019	791.34	12.00	0.019	791.11	-0.040	5.00	790.91	40+50.00	
791.07	12.00	-0.040	791.55	12.00	0.019	791.32	12.00	0.019	791.09	-0.040	5.00	790.89	40+75.00	
791.09	12.00	-0.040	791.57	12.00	0.019	791.34	12.00	0.019	791.11	-0.040	5.00	790.91	41+00.00	
791.14	12.00	-0.040	791.62	12.00	0.019	791.39	12.00	0.019	791.16	-0.040	5.00	790.96	41+25.00	
791.23	12.00	-0.040	791.71	12.00	0.019	791.48	12.00	0.019	791.25	-0.040	5.00	791.05	41+50.00	
791.29	12.00	-0.040	791.77	12.00	0.019	791.54	12.00	0.019	791.31	-0.040	5.00	791.11	41+63.26	END FULL SUPERELEVATION
791.27	12.00	-0.040	791.75	12.00	0.016	791.56	12.00	0.016	791.37	-0.040	5.00	791.17	41+75.00	
791.30	12.00	-0.040	791.78	12.00	0.012	791.63	12.00	0.016	791.44	-0.040	5.00	791.24	41+87.57 BACK	back and pt station
791.30	12.00	-0.040	791.78	12.00	0.012	791.63	12.00	0.016	791.44	-0.040	5.00	791.24	41+88.95 AHEAD	ahead
791.33	12.00	-0.040	791.81	12.00	0.009	791.70	12.00	0.016	791.51	-0.040	5.00	791.31	42+00.00	
791.39	12.00	-0.040	791.87	12.00	-0.002	791.89	12.00	0.016	791.70	-0.040	5.00	791.50	42+25.00	
791.56	12.00	-0.040	792.04	12.00	-0.006	792.11	12.00	0.016	791.92	-0.040	5.00	791.72	42+50.00	
791.69	12.00	-0.040	792.17	12.00	-0.014	792.34	12.00	0.016	792.15	-0.040	5.00	791.95	42+75.00	
791.71	12.00	-0.040	792.19	12.00	-0.016	792.38	12.00	0.016	792.19	-0.040	5.00	791.99	42+78.64	BEGIN NORMAL CROWN

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 112+36.72														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
104+73.35	816.65	5.00	-0.040	816.85	12.00	0.016	817.04	12.00	-0.016	816.85	-0.040	12.00	816.37	END NORMAL CROWN
104+75.00	816.66	5.00	-0.040	816.86	12.00	0.016	817.05	12.00	-0.015	816.87	-0.040	12.00	816.39	
105+00.00	816.75	5.00	-0.040	816.95	12.00	0.016	817.14	12.00	-0.007	817.06	-0.040	12.00	816.58	
105+25.00	816.84	5.00	-0.040	817.04	12.00	0.016	817.23	12.00	0.001	817.24	-0.040	12.00	816.76	
105+50.00	816.93	5.00	-0.040	817.13	12.00	0.016	817.32	12.00	0.008	817.41	-0.040	12.00	816.93	
105+65.45	816.98	5.00	-0.040	817.18	12.00	0.016	817.37	12.00	0.013	817.53	-0.040	12.00	817.05	PC STA. 105+65.45
105+75.00	817.02	5.00	-0.040	817.22	12.00	0.019	817.45	12.00	0.019	817.68	-0.040	12.00	817.20	
105+87.33	817.06	5.00	-0.040	817.26	12.00	0.019	817.49	12.00	0.019	817.72	-0.040	12.00	817.24	BEGIN FULL SUPERELEVATION
106+00.00	817.11	5.00	-0.040	817.31	12.00	0.019	817.54	12.00	0.019	817.77	-0.040	12.00	817.29	
106+25.00	817.20	5.00	-0.040	817.40	12.00	0.019	817.63	12.00	0.019	817.86	-0.040	12.00	817.38	
106+50.00	817.28	5.00	-0.040	817.48	12.00	0.019	817.71	12.00	0.019	817.94	-0.040	12.00	817.46	
106+75.00	817.37	5.00	-0.040	817.57	12.00	0.019	817.80	12.00	0.019	818.03	-0.040	12.00	817.55	
107+00.00	817.44	5.00	-0.040	817.64	12.00	0.019	817.87	12.00	0.019	818.10	-0.040	12.00	817.62	
107+25.00	817.51	5.00	-0.040	817.71	12.00	0.019	817.94	12.00	0.019	818.17	-0.040	12.00	817.69	
107+50.00	817.56	5.00	-0.040	817.76	12.00	0.019	817.99	12.00	0.019	818.22	-0.040	12.00	817.74	
107+75.00	817.60	5.00	-0.040	817.80	12.00	0.019	818.03	12.00	0.019	818.26	-0.040	12.00	817.78	
108+00.00	817.64	5.00	-0.040	817.84	12.00	0.019	818.07	12.00	0.019	818.30	-0.040	12.00	817.82	
108+25.00	817.66	5.00	-0.040	817.86	12.00	0.019	818.09	12.00	0.019	818.32	-0.040	12.00	817.84	
108+50.00	817.67	5.00	-0.040	817.87	12.00	0.019	818.10	12.00	0.019	818.33	-0.040	12.00	817.85	
108+75.00	817.68	5.00	-0.040	817.88	12.00	0.019	818.11	12.00	0.019	818.34	-0.040	12.00	817.86	
109+00.00	817.67	5.00	-0.040	817.87	12.00	0.019	818.10	12.00	0.019	818.33	-0.040	12.00	817.85	
109+25.00	817.65	5.00	-0.040	817.85	12.00	0.019	818.08	12.00	0.019	818.31	-0.040	12.00	817.83	
109+50.00	817.63	5.00	-0.040	817.83	12.00	0.019	818.06	12.00	0.019	818.29	-0.040	12.00	817.81	
109+75.00	817.59	5.00	-0.040	817.79	12.00	0.019	818.02	12.00	0.019	818.25	-0.040	12.00	817.77	
110+00.00	817.54	5.00	-0.040	817.74	12.00	0.019	817.97	12.00	0.019	818.20	-0.040	12.00	817.72	
110+25.00	817.48	5.00	-0.040	817.68	12.00	0.019	817.91	12.00	0.019	818.14	-0.040	12.00	817.66	
110+50.00	817.41	5.00	-0.040	817.61	12.00	0.019	817.84	12.00	0.019	818.07	-0.040	12.00	817.59	
110+75.00	817.34	5.00	-0.040	817.54	12.00	0.019	817.77	12.00	0.019	818.00	-0.040	12.00	817.52	
111+00.00	817.27	5.00	-0.040	817.47	12.00	0.019	817.70	12.00	0.019	817.93	-0.040	12.00	817.45	
111+25.00	817.19	5.00	-0.040	817.39	12.00	0.019	817.62	12.00	0.019	817.85	-0.040	12.00	817.37	
111+50.00	817.12	5.00	-0.040	817.32	12.00	0.019	817.55	12.00	0.019	817.78	-0.040	12.00	817.30	
111+75.00	817.05	5.00	-0.040	817.25	12.00	0.019	817.48	12.00	0.019	817.71	-0.040	12.00	817.23	
112+00.00	816.97	5.00	-0.040	817.17	12.00	0.019	817.40	12.00	0.019	817.63	-0.040	12.00	817.15	
112+25.00	816.90	5.00	-0.040	817.10	12.00	0.019	817.33	12.00	0.019	817.56	-0.040	12.00	817.08	
112+50.00	816.83	5.00	-0.040	817.03	12.00	0.019	817.26	12.00	0.019	817.49	-0.040	12.00	817.01	
112+75.00	816.75	5.00	-0.040	816.95	12.00	0.019	817.18	12.00	0.019	817.41	-0.040	12.00	816.93	
113+00.00	816.68	5.00	-0.040	816.88	12.00	0.019	817.11	12.00	0.019	817.34	-0.040	12.00	816.86	
113+25.00	816.61	5.00	-0.040	816.81	12.00	0.019	817.04	12.00	0.019	817.27	-0.040	12.00	816.79	
113+50.00	816.53	5.00	-0.040	816.73	12.00	0.019	816.96	12.00	0.019	817.19	-0.040	12.00	816.71	
113+75.00	816.46	5.00	-0.040	816.66	12.00	0.019	816.89	12.00	0.019	817.12	-0.040	12.00	816.64	
114+00.00	816.39	5.00	-0.040	816.59	12.00	0.019	816.82	12.00	0.019	817.05	-0.040	12.00	816.57	
114+25.00	816.31	5.00	-0.040	816.51	12.00	0.019	816.74	12.00	0.019	816.97	-0.040	12.00	816.49	
114+50.00	816.24	5.00	-0.040	816.44	12.00	0.019	816.67	12.00	0.019	816.90	-0.040	12.00	816.42	
114+75.00	816.16	5.00	-0.040	816.36	12.00	0.019	816.59	12.00	0.019	816.82	-0.040	12.00	816.34	
115+00.00	816.02	5.75	-0.040	816.25	12.00	0.019	816.48	12.00	0.019	816.71	-0.040	12.00	816.23	
115+25.00	815.86	6.62	-0.040	816.12	12.00	0.019	816.35	12.00	0.019	816.58	-0.040	12.00	816.10	
115+50.00	815.67	7.50	-0.040	815.97	12.00	0.019	816.20	12.00	0.019	816.43	-0.040	12.00	815.95	
115+75.00	815.47	8.37	-0.040	815.80	12.00	0.019	816.03	12.00	0.019	816.26	-0.040	12.00	815.78	
116+00.00	815.23	9.25	-0.040	815.60	12.00	0.019	815.83	12.00	0.019	816.06	-0.040	12.00	815.58	
116+25.00	814.98	10.12	-0.040	815.38	12.00	0.019	815.61	12.00	0.019	815.84	-0.040	12.00	815.36	MEDIAN U-TURN OPENING STA. 117+40.00
116+50.00	814.69	11.00	-0.040	815.13	12.00	0.019	815.36	12.00	0.019	815.59	-0.040	12.00	815.11	
116+75.00	814.40	11.87	-0.040	814.87	12.00	0.019	815.10	12.00	0.019	815.33	-0.040	12.00	814.85	
117+00.00	813.93	16.33	-0.040	814.58	12.00	0.019	814.81	12.00	0.019	815.04	-0.040	12.00	814.56	
117+25.00	812.77	37.38	-0.040	814.27	12.00	0.019	814.50	12.00	0.019	814.73	-0.040	12.00	814.25	
117+50.00	SEE CROSS SECTION		-0.040	813.94	12.00	0.019	814.17	12.00	0.019	814.40	-0.040	12.00	813.92	
117+75.00	813.41	5.02	-0.040	813.61	12.00	0.019	813.84	12.00	0.019	814.07	-0.040	12.00	813.59	
118+00.00	813.11	5.00	-0.040	813.31	12.00	0.019	813.54	12.00	0.019	813.77	-0.040	12.00	813.29	
118+25.00	812.84	5.00	-0.040	813.04	12.00	0.019	813.27	12.00	0.019	813.50	-0.040	12.00	813.02	
118+50.00	812.60	5.00	-0.040	812.80	12.00	0.019	813.03	12.00	0.019	813.26	-0.040	12.00	812.78	
118+75.00	812.38	5.00	-0.040	812.58	12.00	0.019	812.81	12.00	0.019	813.04	-0.040	12.00	812.56	
119+00.00	812.20	5.00	-0.040	812.40	12.00	0.019	812.63	12.00	0.019	812.86	-0.040	12.00	812.38	
119+06.65 BACK	812.15	5.00	-0.040	812.35	12.00	0.019	812.58	12.00	0.019	812.81	-0.040	12.00	812.33	BACK
0+44.61 AHEAD	812.15	5.00	-0.040	812.35	12.00	0.019	812.58	12.00	0.019	812.81	-0.040	12.00	812.33	AHEAD & PCC STATION
0+50.00	812.12	5.00	-0.040	812.32	12.00	0.019	812.55	12.00	0.019	812.78	-0.040	12.00	812.30	
0+75.00	811.98	5.00	-0.040	812.18	12.00	0.019	812.41	12.00	0.019	812.64	-0.040	12.00	812.16	
1+00.00	811.86	5.00	-0.040	812.06	12.00	0.019	812.29	12.00	0.019	812.52	-0.040	12.00	812.04	
1+25.00	811.78	5.00	-0.040	811.98	12.00	0.019	812.21	12.00	0.019	812.44	-0.040	12.00	811.96	
1+50.00	811.73	5.00	-0.040	811.93	12.00	0.019	812.16	12.00	0.019	812.39	-0.040	12.00	811.91	

I.R. 90 EASTBOUND LANES CURVE P.I. STATION 112+36.72														
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
1+75.00	811.70	5.00	-0.040	811.90	12.00	0.019	812.13	12.00	0.019	812.36	-0.040	12.00	811.88	
2+00.00	811.70	5.00	-0.040	811.90	12.00	0.019	812.13	12.00	0.019	812.36	-0.040	12.00	811.88	
2+25.00	811.70	5.00	-0.040	811.90	12.00	0.019	812.13	12.00	0.019	812.36	-0.040	12.00	811.88	
2+50.00	811.71	5.00	-0.040	811.91	12.00	0.019	812.14	12.00	0.019	812.37	-0.040	12.00	811.89	
2+75.00	811.71	5.00	-0.040	811.91	12.00	0.019	812.14	12.00	0.019	812.37	-0.040	12.00	811.89	
3+00.00	811.71	5.00	-0.040	811.91	12.00	0.019	812.14	12.00	0.019	812.37	-0.040	12.00	811.89	
3+25.00	811.71	5.00	-0.040	811.91	12.00	0.019	812.14	12.00	0.019	812.37	-0.040	12.00	811.89	
3+50.00	811.72	5.00	-0.040	811.92	12.00	0.019	812.15	12.00	0.019	812.38	-0.040	11.64	811.91	
3+75.00	811.72	5.00	-0.040	811.92	12.00	0.019	812.15	12.00	0.019	812.38	-0.040	11.29	811.92	
4+00.00	811.72	5.00	-0.040	811.92	12.00	0.019	812.15	12.00	0.019	812.38	-0.040	10.93	811.94	
4+25.00	811.73	5.00	-0.040	811.93	12.00	0.019	812.16	12.00	0.019	812.39	-0.040	10.57	811.96	
4+50.00	811.73	5.00	-0.040	811.93	12.00	0.019	812.16	12.00	0.019	812.39	-0.040	10.21	811.98	
4+75.00	811.73	5.00	-0.040	811.93	12.00	0.019	812.16	12.00	0.019	812.39	-0.040	10.00	811.99	
5+00.00	811.74	5.00	-0.040	811.94	12.00	0.019	812.17	12.00	0.019	812.40	-0.040	10.00	812.00	
5+25.00	811.74	5.00	-0.040	811.94	12.00	0.019	812.17	12.00	0.019	812.40	-0.040	10.00	812.00	
5+50.00	811.74	5.00	-0.040	811.94	12.00	0.019	812.17	12.00	0.019	812.40	-0.040	10.00	812.00	
5+75.00	811.75	5.00	-0.040	811.95	12.00	0.019	812.18	12.00	0.019	812.41	-0.040	10.00	812.01	MEET EXISTING IR 90

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I.R. 90 WESTBOUND LANES CURVE P.I. STATION 112+36.72														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
816.37	12.00	-0.040	816.85	12.00	-0.016	817.04	12.00	0.016	816.85	-0.040	5.00	816.65	104+73.35	END NORMAL CROWN
816.37	12.00	-0.040	816.85	12.00	-0.016	817.05	12.00	0.015	816.86	-0.040	5.00	816.66	104+75.00	
816.36	12.00	-0.040	816.84	12.00	-0.016	817.03	12.00	0.007	816.95	-0.040	5.00	816.75	105+00.00	
816.36	12.00	-0.040	816.84	12.00	-0.016	817.03	12.00	-0.001	817.04	-0.040	5.00	816.84	105+25.00	
816.37	12.00	-0.040	816.85	12.00	-0.016	817.04	12.00	-0.008	817.13	-0.040	5.00	816.93	105+50.00	
816.35	12.00	-0.040	816.83	12.00	-0.016	817.02	12.00	-0.013	817.18	-0.040	5.00	816.98	105+65.45	PC STA. 105+65.45
816.28	12.00	-0.040	816.76	12.00	-0.019	816.99	12.00	-0.019	817.22	-0.040	5.00	817.02	105+75.00	BEGIN FULL SUPERELEVATION
816.32	12.00	-0.040	816.80	12.00	-0.019	817.03	12.00	-0.019	817.26	-0.040	5.00	817.06	105+87.33	
816.37	12.00	-0.040	816.85	12.00	-0.019	817.08	12.00	-0.019	817.31	-0.040	5.00	817.11	106+00.00	
816.46	12.00	-0.040	816.94	12.00	-0.019	817.17	12.00	-0.019	817.40	-0.040	5.00	817.20	106+25.00	
816.54	12.00	-0.040	817.02	12.00	-0.019	817.25	12.00	-0.019	817.48	-0.040	5.00	817.28	106+50.00	
816.63	12.00	-0.040	817.11	12.00	-0.019	817.34	12.00	-0.019	817.57	-0.040	5.00	817.37	106+75.00	
816.70	12.00	-0.040	817.18	12.00	-0.019	817.41	12.00	-0.019	817.64	-0.040	5.00	817.44	107+00.00	
816.77	12.00	-0.040	817.25	12.00	-0.019	817.48	12.00	-0.019	817.71	-0.040	5.00	817.51	107+25.00	
816.82	12.00	-0.040	817.30	12.00	-0.019	817.53	12.00	-0.019	817.76	-0.040	5.00	817.56	107+50.00	
816.86	12.00	-0.040	817.34	12.00	-0.019	817.57	12.00	-0.019	817.80	-0.040	5.00	817.60	107+75.00	
816.90	12.00	-0.040	817.38	12.00	-0.019	817.61	12.00	-0.019	817.84	-0.040	5.00	817.64	108+00.00	
816.92	12.00	-0.040	817.40	12.00	-0.019	817.63	12.00	-0.019	817.86	-0.040	5.00	817.66	108+25.00	
816.93	12.00	-0.040	817.41	12.00	-0.019	817.64	12.00	-0.019	817.87	-0.040	5.00	817.67	108+50.00	
816.94	12.00	-0.040	817.42	12.00	-0.019	817.65	12.00	-0.019	817.88	-0.040	5.00	817.68	108+75.00	
816.93	12.00	-0.040	817.41	12.00	-0.019	817.64	12.00	-0.019	817.87	-0.040	5.00	817.67	109+00.00	
816.91	12.00	-0.040	817.39	12.00	-0.019	817.62	12.00	-0.019	817.85	-0.040	5.00	817.65	109+25.00	
816.89	12.00	-0.040	817.37	12.00	-0.019	817.60	12.00	-0.019	817.83	-0.040	5.00	817.63	109+50.00	
816.85	12.00	-0.040	817.33	12.00	-0.019	817.56	12.00	-0.019	817.79	-0.040	5.00	817.59	109+75.00	
816.80	12.00	-0.040	817.28	12.00	-0.019	817.51	12.00	-0.019	817.74	-0.040	5.00	817.54	110+00.00	
816.74	12.00	-0.040	817.22	12.00	-0.019	817.45	12.00	-0.019	817.68	-0.040	5.00	817.48	110+25.00	
816.67	12.00	-0.040	817.15	12.00	-0.019	817.38	12.00	-0.019	817.61	-0.040	5.00	817.41	110+50.00	
816.60	12.00	-0.040	817.08	12.00	-0.019	817.31	12.00	-0.019	817.54	-0.040	5.00	817.34	110+75.00	
816.53	12.00	-0.040	817.01	12.00	-0.019	817.24	12.00	-0.019	817.47	-0.040	5.00	817.27	111+00.00	
816.45	12.00	-0.040	816.93	12.00	-0.019	817.16	12.00	-0.019	817.39	-0.040	5.00	817.19	111+25.00	
816.38	12.00	-0.040	816.86	12.00	-0.019	817.09	12.00	-0.019	817.32	-0.040	5.00	817.12	111+50.00	
816.31	12.00	-0.040	816.79	12.00	-0.019	817.02	12.00	-0.019	817.25	-0.040	5.00	817.05	111+75.00	
816.23	12.00	-0.040	816.71	12.00	-0.019	816.94	12.00	-0.019	817.17	-0.040	5.00	816.97	112+00.00	
816.16	12.00	-0.040	816.64	12.00	-0.019	816.87	12.00	-0.019	817.10	-0.040	5.00	816.90	112+25.00	
816.09	12.00	-0.040	816.57	12.00	-0.019	816.80	12.00	-0.019	817.03	-0.040	5.00	816.83	112+50.00	
816.01	12.00	-0.040	816.49	12.00	-0.019	816.72	12.00	-0.019	816.95	-0.040	5.00	816.75	112+75.00	
815.94	12.00	-0.040	816.42	12.00	-0.019	816.65	12.00	-0.019	816.88	-0.040	5.00	816.68	113+00.00	
815.87	12.00	-0.040	816.35	12.00	-0.019	816.58	12.00	-0.019	816.81	-0.040	5.00	816.61	113+25.00	
815.79	12.00	-0.040	816.27	12.00	-0.019	816.50	12.00	-0.019	816.73	-0.040	5.00	816.53	113+50.00	
815.72	12.00	-0.040	816.20	12.00	-0.019	816.43	12.00	-0.019	816.66	-0.040	5.00	816.46	113+75.00	
815.65	12.00	-0.040	816.13	12.00	-0.019	816.36	12.00	-0.019	816.59	-0.040	5.00	816.39	114+00.00	
815.57	12.00	-0.040	816.05	12.00	-0.019	816.28	12.00	-0.019	816.51	-0.040	5.00	816.31	114+25.00	
815.50	12.00	-0.040	815.98	12.00	-0.019	816.21	12.00	-0.019	816.44	-0.040	5.00	816.24	114+50.00	
815.42	12.00	-0.040	815.90	12.00	-0.019	816.13	12.00	-0.019	816.36	-0.040	5.00	816.16	114+75.00	
815.31	12.00	-0.040	815.79	12.00	-0.019	816.02	12.00	-0.019	816.25	-0.040	5.00	816.05	115+00.00	
815.18	12.00	-0.040	815.66	12.00	-0.019	815.89	12.00	-0.019	815.12	-0.040	5.00	815.92	115+25.00	
815.03	12.00	-0.040	815.51	12.00	-0.019	815.74	12.00	-0.019	815.97	-0.040	5.00	815.77	115+50.00	
814.86	12.00	-0.040	815.34	12.00	-0.019	815.57	12.00	-0.019	815.80	-0.040	5.00	815.60	115+75.00	
814.66	12.00	-0.040	815.14	12.00	-0.019	815.37	12.00	-0.019	815.60	-0.040	5.00	815.40	116+00.00	
814.44	12.00	-0.040	814.92	12.00	-0.019	815.15	12.00	-0.019	815.38	-0.040	5.00	815.18	116+25.00	
814.19	12.00	-0.040	814.67	12.00	-0.019	814.90	12.00	-0.019	815.13	-0.040	5.00	814.93	116+50.00	
813.93	12.00	-0.040	814.41	12.00	-0.019	814.64	12.00	-0.019	814.87	-0.040	5.00	814.67	116+75.00	
813.64	12.00	-0.040	814.12	12.00	-0.019	814.35	12.00	-0.019	814.58	-0.040	5.00	814.38	117+00.00	
813.33	12.00	-0.040	813.81	12.00	-0.019	814.04	12.00	-0.019	814.27	-0.040	16.40	813.61	117+25.00	
813.00	12.00	-0.040	813.48	12.00	-0.019	813.71	12.00	-0.019	813.94	-0.040	SEE CROSS-SECTION		117+50.00	
812.67	12.00	-0.040	813.15	12.00	-0.019	813.38	12.00	-0.019	813.61	-0.040	18.67	812.86	117+75.00	
812.37	12.00	-0.040	812.85	12.00	-0.019	813.08	12.00	-0.019	813.31	-0.040	12.01	812.83	118+00.00	
812.10	12.00	-0.040	812.58	12.00	-0.019	812.81	12.00	-0.019	813.04	-0.040	11.17	812.59	118+25.00	
811.86	12.00	-0.040	812.34	12.00	-0.019	812.57	12.00	-0.019	812.80	-0.040	10.29	812.39	118+50.00	
811.64	12.00	-0.040	812.12	12.00	-0.019	812.35	12.00	-0.019	812.58	-0.040	9.42	812.20	118+75.00	
811.46	12.00	-0.040	811.94	12.00	-0.019	812.17	12.00	-0.019	812.40	-0.040	8.54	812.06	119+00.00	
811.41	12.00	-0.040	811.89	12.00	-0.019	812.12	12.00	-0.019	812.35	-0.040	8.31	812.02	119+06.65	BACK
811.41	12.00	-0.040	811.89	12.00	-0.019	812.12	12.00	-0.019	812.35	-0.040	8.31	812.02	0+44.61	AHEAD & PCC STATION
811.38	12.00	-0.040	811.86	12.00	-0.019	812.09	12.00	-0.019	812.32	-0.040	8.12	812.00	0+50.00	
811.24	12.00	-0.040	811.72	12.00	-0.019	811.95	12.00	-0.019	812.18	-0.040	7.25	811.89	0+75.00	
811.12	12.00	-0.040	811.60	12.00	-0.019	811.83	12.00	-0.019	812.06	-0.040	6.37	811.81	1+00.00	
811.04	12.00	-0.040	811.52	12.00	-0.019	811.75	12.00	-0.019	811.98	-0.040	5.50	811.76	1+25.00	
810.99	12.00	-0.040	811.47	12.00	-0.019	811.70	12.00	-0.019	811.93	-0.040	5.00	811.73	1+50.00	

CALCULATED
C.Y.
CHECKED

SUPERELEVATION TABLES (I.R. 90 WESTBOUND LANES)

LAK-90-21.40
ATB-90-0.00

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I.R. 90 WESTBOUND LANES CURVE P.I. STATION 112+36.72														
LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	LEFT PAVEMENT WIDTH	LEFT PAVEMENT SLOPE	CENTER OF LANES	RIGHT PAVEMENT WIDTH	RIGHT PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	BASELINE SURVEY & CONSTRUCTION	COMMENTS
810.96	12.00	-0.040	811.44	12.00	-0.019	811.67	12.00	-0.019	811.90	-0.040	5.00	811.70	1+75.00	
810.96	12.00	-0.040	811.44	12.00	-0.019	811.67	12.00	-0.019	811.90	-0.040	5.00	811.70	2+00.00	
810.96	12.00	-0.040	811.44	12.00	-0.019	811.67	12.00	-0.019	811.90	-0.040	5.00	811.70	2+25.00	
810.97	12.00	-0.040	811.45	12.00	-0.019	811.68	12.00	-0.019	811.91	-0.040	5.00	811.71	2+50.00	
810.97	12.00	-0.040	811.45	12.00	-0.019	811.68	12.00	-0.019	811.91	-0.040	5.00	811.71	2+75.00	
810.97	12.00	-0.040	811.45	12.00	-0.019	811.68	12.00	-0.019	811.91	-0.040	5.00	811.71	3+00.00	
810.97	12.00	-0.040	811.45	12.00	-0.019	811.68	12.00	-0.019	811.91	-0.040	5.00	811.71	3+25.00	
811.00	11.64	-0.040	811.46	12.00	-0.019	811.69	12.00	-0.019	811.92	-0.040	6.00	811.68	3+50.00	
811.01	11.29	-0.040	811.46	12.00	-0.019	811.69	12.00	-0.019	811.92	-0.040	7.00	811.64	3+75.00	
811.03	10.93	-0.040	811.46	12.00	-0.019	811.69	12.00	-0.019	811.92	-0.040	8.00	811.60	4+00.00	
811.05	10.57	-0.040	811.47	12.00	-0.019	811.70	12.00	-0.019	811.93	-0.040	9.00	811.57	4+25.00	
811.07	10.21	-0.040	811.47	12.00	-0.019	811.70	12.00	-0.019	811.93	-0.040	10.00	811.53	4+50.00	
811.07	10.00	-0.040	811.47	12.00	-0.019	811.70	12.00	-0.019	811.93	-0.040	11.00	811.49	4+75.00	
811.08	10.00	-0.040	811.48	12.00	-0.019	811.71	12.00	-0.019	811.94	-0.040	12.00	811.46	5+00.00	
811.08	10.00	-0.040	811.48	12.00	-0.019	811.71	12.00	-0.019	811.94	-0.040	13.00	811.42	5+25.00	
811.08	10.00	-0.040	811.48	12.00	-0.019	811.71	12.00	-0.019	811.94	-0.040	14.00	811.38	5+50.00	
811.09	10.00	-0.040	811.49	12.00	-0.019	811.72	12.00	-0.019	811.95	-0.040	15.00	811.35	5+75.00	MEET EXISTING IR 90

CALCULATED
C.Y.
CHECKED

SUPERELEVATION TABLE (I.R. 90 WESTBOUND LANES)

LAK-90-21.40
ATB-90-0.00

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RAMP I											
BASLINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	PAVEMENT WIDTH	PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
4+36.31	804.99	3.0	-0.029	805.08	16.0	0.041	804.42	-0.041	8.0	804.09	BEGIN RAMP I
4+50.00	804.96	3.0	-0.029	805.05	16.0	0.041	804.39	-0.041	8.0	804.06	
4+75.00	804.93	3.0	-0.029	805.02	16.0	0.041	804.36	-0.041	8.0	804.03	
5+00.00	804.97	3.0	-0.029	805.06	16.0	0.041	804.40	-0.041	8.0	804.07	
5+25.00	805.07	3.0	-0.029	805.16	16.0	0.041	804.50	-0.041	8.0	804.17	
5+50.00	805.24	3.0	-0.029	805.33	16.0	0.041	804.67	-0.041	8.0	804.34	
5+75.00	805.48	3.0	-0.029	805.57	16.0	0.041	804.91	-0.041	8.0	804.58	
6+00.00	805.79	3.0	-0.029	805.88	16.0	0.041	805.22	-0.041	8.0	804.89	
6+25.00	806.16	3.0	-0.029	806.25	16.0	0.041	805.59	-0.041	8.0	805.26	
6+50.00	806.59	3.0	-0.029	806.68	16.0	0.041	806.02	-0.041	8.0	805.69	
6+75.00	807.09	3.0	-0.029	807.18	16.0	0.041	806.52	-0.041	8.0	806.19	
7+00.00	807.66	3.0	-0.029	807.75	16.0	0.041	807.09	-0.041	8.0	806.76	
7+25.00	808.30	3.0	-0.029	808.39	16.0	0.041	807.73	-0.041	8.0	807.40	
7+31.30	808.47	3.0	-0.029	808.56	16.0	0.041	807.90	-0.041	8.0	807.57	BEGIN ROTATION
7+50.00	809.14	3.0	-0.022	809.20	16.0	0.048	808.43	-0.048	8.0	808.04	
7+75.00	810.09	3.0	-0.012	810.13	16.0	0.058	809.20	-0.058	8.0	808.74	
8+00.00	811.31	3.0	0.068	811.11	16.0	0.068	810.03	-0.068	8.0	809.49	
8+25.00	812.40	3.0	0.077	812.17	16.0	0.077	810.93	-0.077	8.0	810.31	
8+29.49	812.60	3.0	0.079	812.36	16.0	0.079	811.10	-0.079	8.0	810.47	BEGIN MAXIMUM SUPER
8+50.00	813.40	3.0	0.079	813.16	16.0	0.079	811.90	-0.079	8.0	811.27	
8+75.00	814.40	3.0	0.079	814.16	16.0	0.079	812.90	-0.079	8.0	812.27	
8+82.63	814.71	3.0	0.079	814.47	16.0	0.079	813.21	-0.079	8.0	812.58	END MAXIMUM SUPER
9+00.00	815.27	3.0	0.072	815.06	16.0	0.072	813.90	-0.072	8.0	813.32	
9+25.00	816.09	3.0	0.063	815.90	16.0	0.063	814.90	-0.063	8.0	814.40	
9+50.00	816.70	3.0	-0.017	816.75	16.0	0.053	815.90	-0.053	8.0	815.48	
9+75.00	817.51	3.0	-0.027	817.59	16.0	0.043	816.90	-0.043	8.0	816.55	
10+00.00	818.33	3.0	-0.036	818.44	16.0	0.034	817.90	-0.040	8.0	817.58	
10+25.00	819.16	3.0	-0.040	819.28	16.0	0.024	818.90	-0.040	8.0	818.58	
10+50.00	820.01	3.0	-0.040	820.13	16.0	0.014	819.90	-0.040	8.0	819.58	
10+75.00	820.85	3.0	-0.040	820.97	16.0	0.005	820.90	-0.040	8.0	820.58	
11+00.00	821.70	3.0	-0.040	821.82	16.0	-0.005	821.90	-0.040	8.0	821.58	
11+25.00	822.47	3.0	-0.040	822.59	16.0	-0.015	822.83	-0.040	8.0	822.51	
11+50.00	823.12	3.0	-0.040	823.24	16.0	-0.024	823.63	-0.040	8.0	823.31	
11+67.00	823.47	3.0	-0.040	823.59	16.0	-0.031	824.09	-0.040	8.0	823.77	REACH MINIMUM SUPER
11+75.00	823.71	3.0	-0.040	823.83	16.0	-0.028	824.28	-0.040	8.0	823.96	
12+00.00	824.37	3.0	-0.040	824.49	16.0	-0.019	824.80	-0.040	8.0	824.48	
12+25.00											SEE INTERSECTION DETAIL SHEETS 455-462
12+50.00											
12+53.09											

RAMP J											
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	PAVEMENT WIDTH	PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
4+43.51	802.29	8.0	-0.077	802.91	16.0	0.077	804.14	-0.010	3.0	804.11	BEGIN RAMP J
4+50.00	802.20	8.0	-0.077	802.82	16.0	0.077	804.05	0.077	3.0	804.28	
4+75.00	801.83	8.0	-0.077	802.45	16.0	0.077	803.68	0.077	3.0	803.91	
5+00.00	801.47	8.0	-0.077	802.09	16.0	0.077	803.32	0.077	3.0	803.55	BEGIN MAXIMUM SUPER
5+25.00	801.15	8.0	-0.077	801.77	16.0	0.077	803.00	0.077	3.0	803.23	
5+50.00	800.92	8.0	-0.077	801.54	16.0	0.077	802.77	0.077	3.0	803.00	
5+75.00	800.78	8.0	-0.077	801.40	16.0	0.077	802.63	0.077	3.0	802.86	
6+00.00	800.73	8.0	-0.077	801.35	16.0	0.077	802.58	0.077	3.0	802.81	
6+25.00	800.77	8.0	-0.077	801.39	16.0	0.077	802.62	0.077	3.0	802.85	
6+50.00	800.90	8.0	-0.077	801.52	16.0	0.077	802.75	0.077	3.0	802.98	
6+75.00	801.12	8.0	-0.077	801.74	16.0	0.077	802.97	0.077	3.0	803.20	
7+00.00	801.43	8.0	-0.077	802.05	16.0	0.077	803.28	0.077	3.0	803.51	
7+25.00	801.83	8.0	-0.077	802.45	16.0	0.077	803.68	0.077	3.0	803.91	
7+50.00	802.32	8.0	-0.077	802.94	16.0	0.077	804.17	0.077	3.0	804.40	
7+75.00	802.90	8.0	-0.077	803.52	16.0	0.077	804.75	0.077	3.0	804.98	
8+00.00	803.57	8.0	-0.077	804.19	16.0	0.077	805.42	0.077	3.0	805.65	
8+25.00	804.29	8.0	-0.077	804.91	16.0	0.077	806.14	0.077	3.0	806.37	
8+50.00	805.01	8.0	-0.077	805.63	16.0	0.077	806.86	0.077	3.0	807.09	
8+75.00	805.72	8.0	-0.077	806.34	16.0	0.077	807.57	0.077	3.0	807.80	
9+00.00	806.44	8.0	-0.077	807.06	16.0	0.077	808.29	0.077	3.0	808.52	
9+07.87	806.66	8.0	-0.077	807.28	16.0	0.077	808.51	0.077	3.0	808.74	END MAXIMUM SUPER
9+25.00	807.20	8.0	-0.072	807.77	16.0	0.072	808.92	0.072	3.0	809.13	
9+50.00	807.93	8.0	-0.064	808.44	16.0	0.064	809.46	0.064	3.0	809.65	
9+75.00	808.56	8.0	-0.056	809.01	16.0	0.056	809.91	-0.014	3.0	809.86	
10+00.00	809.09	8.0	-0.048	809.48	16.0	0.048	810.25	-0.022	3.0	810.19	
10+25.00	809.54	8.0	-0.040	809.86	16.0	0.040	810.51	-0.030	3.0	810.42	
10+50.00	809.82	8.0	-0.040	810.14	16.0	0.033	810.66	-0.037	3.0	810.55	
10+75.00	810.00	8.0	-0.040	810.32	16.0	0.025	810.72	-0.045	3.0	810.58	
11+00.00	810.08	8.0	-0.040	810.40	16.0	0.017	810.67	-0.040	3.0	810.55	
11+02.76	810.08	8.0	-0.040	810.40	16.0	0.016	810.66	-0.040	3.0	810.54	BEGIN NORMAL CROWN
11+25.00	810.06	8.0	-0.040	810.38	16.0	0.016	810.64	-0.040	3.0	810.52	
11+50.00	809.95	8.0	-0.040	810.27	16.0	0.016	810.53	-0.040	3.0	810.41	
11+71.35	809.78	8.0	-0.040	810.10	16.0	0.016	810.36	-0.040	3.0	810.24	END NORMAL CROWN
11+75.00	809.74	8.0	-0.040	810.06	16.0	0.017	810.34	-0.040	3.0	810.22	
12+00.00	809.44	8.0	-0.040	809.76	16.0	0.027	810.19				SEE INTERSECTION DETAIL SHEETS 455-462
12+25.00	809.03	8.0	-0.040	809.35	16.0	0.037	809.94				
12+50.00	808.48	8.0	-0.047	808.85	16.0	0.047	809.59	-0.023	3.0	809.52	
12+75.00	807.80	8.0	-0.056	808.25	16.0	0.056	809.15	-0.014	3.0	809.11	
12+95.06	807.19	8.0	-0.064	807.70	16.0	0.064	808.72	0.064	3.0	808.92	BEGIN MAXIMUM SUPER
13+00.00	807.04	8.0	-0.064	807.55	16.0	0.064	808.57	0.064	3.0	808.77	
13+25.00	806.25	8.0	-0.064	806.76	16.0	0.064	807.78	0.064	3.0	807.98	
13+50.00	805.41	8.0	-0.064	805.92	16.0	0.064	806.94	0.064	3.0	807.14	
13+75.00	804.57	8.0	-0.064	805.08	16.0	0.064	806.10	0.064	3.0	806.30	
14+00.00	803.72	8.0	-0.064	804.23	16.0	0.064	805.25	0.064	3.0	805.45	
14+25.00											SEE INTERSECTION DETAIL SHEETS 455-462
14+50.00											
14+75.00											
14+98.02											

RAMP K											
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	PROFILE GRADE	PAVEMENT WIDTH	PAVEMENT SLOPE	RIGHT EDGE OF PAVEMENT	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
0+10.84	SEE INTERSECTION DETAIL SHEETS 455-462										BEGIN RAMP K
0+25.00											
0+50.00											
0+75.00											
1+00.00	809.58	8.0	-0.040	809.90	16.0	0.009	810.04	-0.040	3.0	809.92	
1+00.00	809.22	8.0	-0.040	809.54	16.0	-0.001	809.52	-0.040	3.0	809.40	
1+25.00	808.83	8.0	-0.040	809.15	16.0	-0.011	808.97	-0.040	3.0	808.85	
1+32.00	808.72	8.0	-0.040	809.04	16.0	-0.014	808.82	-0.040	3.0	808.70	REACH MINIMUM SUPER
1+50.00	808.42	8.0	-0.040	808.74	16.0	-0.007	808.63	-0.040	3.0	808.51	
1+75.00	807.98	8.0	-0.040	808.30	16.0	0.003	808.34	-0.040	3.0	808.22	
2+00.00	807.51	8.0	-0.040	807.83	16.0	0.012	808.03	-0.040	3.0	807.91	
2+25.00	807.02	8.0	-0.040	807.34	16.0	0.022	807.69	-0.040	3.0	807.57	
2+50.00	806.51	8.0	-0.040	806.83	16.0	0.032	807.34	-0.038	3.0	807.22	
2+75.00	805.96	8.0	-0.041	806.29	16.0	0.041	806.95	-0.029	3.0	806.86	
3+00.00	805.31	8.0	-0.051	805.72	16.0	0.051	806.53	-0.019	3.0	806.48	
3+25.00	804.65	8.0	-0.061	805.13	16.0	0.061	806.10	0.061	3.0	806.28	
3+50.00	803.97	8.0	-0.070	804.53	16.0	0.070	805.65	0.070	3.0	805.86	
3+72.64	803.35	8.0	-0.079	803.98	16.0	0.079	805.24	0.079	3.0	805.48	BEGIN MAXIMUM SUPER
3+75.00	803.29	8.0	-0.079	803.92	16.0	0.079	805.18	0.079	3.0	805.42	
4+00.00	802.69	8.0	-0.079	803.32	16.0	0.079	804.58	0.079	3.0	804.82	
4+25.00	802.11	8.0	-0.079	802.74	16.0	0.079	804.00	0.079	3.0	804.24	
4+30.21	802.00	8.0	-0.079	802.63	16.0	0.079	803.89	0.079	3.0	804.13	
4+50.00	801.62	8.0	-0.075	802.22	16.0	0.075	803.41	0.075	3.0	803.64	
4+75.00	801.20	8.0	-0.069	801.75	16.0	0.069	802.86	0.069	3.0	803.06	
5+00.00	800.82	8.0	-0.064	801.33	16.0	0.064	802.35	0.064	3.0	802.54	
5+25.00	800.49	8.0	-0.058	800.96	16.0	0.058	801.89	-0.012	3.0	801.85	
5+50.00	800.23	8.0	-0.053	800.65	16.0	0.053	801.49	-0.017	3.0	801.44	
5+75.00	800.00	8.0	-0.047	800.38	16.0	0.047	801.13	-0.023	3.0	801.07	
5+80.21	799.97	8.0	-0.046	800.34	16.0	0.046	801.08	-0.024	3.0	801.00	END MAXIMUM SUPER
6+00.00	799.81	8.0	-0.046	800.18	16.0	0.046	800.92	-0.024	3.0	800.84	
6+25.00	799.65	8.0	-0.046	800.02	16.0	0.046	800.76	-0.024	3.0	800.68	
6+50.00	799.54	8.0	-0.046	799.91	16.0	0.046	800.65	-0.024	3.0	800.57	
6+75.00	799.49	8.0	-0.046	799.86	16.0	0.046	800.60	-0.024	3.0	800.52	
6+78.40	799.49	8.0	-0.046	799.86	16.0	0.046	800.60	-0.024	3.0	800.52	REACH SUPER ON IR 90
7+00.00	799.49	8.0	-0.046	799.86	16.0	0.046	800.60	-0.024	3.0	800.52	

RAMP L											
BASELINE SURVEY & CONSTRUCTION	LEFT EDGE OF SHOULDER	LEFT SHOULDER WIDTH	LEFT SHOULDER SLOPE	LEFT EDGE OF PAVEMENT	PAVEMENT WIDTH	PAVEMENT SLOPE	PROFILE GRADE	RIGHT SHOULDER SLOPE	RIGHT SHOULDER WIDTH	RIGHT EDGE OF SHOULDER	COMMENTS
0+17.50	SEE INTERSECTION DETAIL SHEETS 455-462										BEGIN RAMP L
0+25.00											
0+50.00											
0+75.00											
0+75.00	824.25	3.0	-0.040	824.37	16.0	-0.029	824.83	-0.040	8.0	824.51	
1+00.00	823.54	3.0	-0.040	823.66	16.0	-0.039	824.28	-0.040	8.0	823.96	
1+25.00	822.98	3.0	0.049	822.84	16.0	-0.049	823.62	-0.049	8.0	823.23	
1+50.00	822.11	3.0	0.058	821.93	16.0	-0.058	822.86	-0.058	8.0	822.40	
1+65.00	821.52	3.0	0.064	821.33	16.0	-0.064	822.35	-0.064	8.0	821.84	MINIMUM SUPER REACH
1+75.00	821.21	3.0	0.060	821.03	16.0	-0.060	821.99	-0.060	8.0	821.51	
2+00.00	820.37	3.0	0.050	820.21	16.0	-0.050	821.02	-0.050	8.0	820.62	
2+25.00	819.46	3.0	0.041	819.34	16.0	-0.041	819.99	-0.041	8.0	819.66	
2+50.00	818.35	3.0	-0.040	818.47	16.0	-0.031	818.96	-0.040	8.0	818.64	
2+75.00	817.47	3.0	-0.040	817.59	16.0	-0.021	817.93	-0.040	8.0	817.61	
3+00.00	816.60	3.0	-0.040	816.72	16.0	-0.011	816.90	-0.040	8.0	816.58	
3+25.00	815.73	3.0	-0.040	815.85	16.0	-0.002	815.88	-0.040	8.0	815.56	
3+50.00	814.86	3.0	-0.040	814.98	16.0	0.008	814.85	-0.040	8.0	814.53	
3+70.42	814.15	3.0	-0.040	814.27	16.0	0.016	814.01	-0.040	8.0	813.69	BEGIN NORMAL CROWN
3+75.00	813.96	3.0	-0.040	814.08	16.0	0.016	813.82	-0.040	8.0	813.50	
3+76.56	813.90	3.0	-0.040	814.02	16.0	0.016	813.76	-0.040	8.0	813.44	END NORMAL CROWN
4+00.00	813.04	3.0	-0.040	813.16	16.0	0.023	812.79	-0.040	8.0	812.47	
4+25.00	812.14	3.0	-0.039	812.26	16.0	0.031	811.76	-0.040	8.0	811.44	
4+50.00	811.27	3.0	-0.031	811.36	16.0	0.039	810.74	-0.040	8.0	810.42	
4+75.00	810.39	3.0	-0.023	810.46	16.0	0.047	809.71	-0.047	8.0	809.34	
5+00.00	809.51	3.0	-0.015	809.55	16.0	0.055	808.68	-0.055	8.0	808.24	
5+25.00	808.84	3.0	0.062	808.65	16.0	0.062	807.65	-0.062	8.0	807.15	
5+50.00	807.96	3.0	0.070	807.74	16.0	0.070	806.62	-0.070	8.0	806.06	
5+75.00	807.11	3.0	0.078	806.88	16.0	0.078	805.63	-0.078	8.0	805.01	
5+81.03	806.92	3.0	0.080	806.68	16.0	0.080	805.40	-0.080	8.0	804.76	BEGIN MAXIMUM SUPER
6+00.00	806.22	3.0	0.080	805.98	16.0	0.080	804.70	-0.080	8.0	804.06	
6+25.00	805.37	3.0	0.080	805.13	16.0	0.080	803.85	-0.080	8.0	803.21	
6+50.00	804.58	3.0	0.080	804.34	16.0	0.080	803.06	-0.080	8.0	802.42	
6+75.00	803.86	3.0	0.080	803.62	16.0	0.080	802.34	-0.080	8.0	801.70	
7+00.00	803.21	3.0	0.080	802.97	16.0	0.080	801.69	-0.080	8.0	801.05	
7+25.00	802.62	3.0	0.080	802.38	16.0	0.080	801.10	-0.080	8.0	800.46	
7+50.00	802.11	3.0	0.080	801.87	16.0	0.080	800.59	-0.080	8.0	799.95	
7+75.00	801.66	3.0	0.080	801.42	16.0	0.080	800.14	-0.080	8.0	799.50	
8+00.00	801.29	3.0	0.080	801.05	16.0	0.080	799.77	-0.080	8.0	799.13	
8+25.00	800.98	3.0	0.080	800.74	16.0	0.080	799.46	-0.080	8.0	798.82	
8+50.00	800.74	3.0	0.080	800.50	16.0	0.080	799.22	-0.080	8.0	798.58	
8+68.60	800.60	3.0	0.080	800.36	16.0	0.080	799.08	-0.080	8.0	798.44	END MAXIMUM SUPER
8+75.00	800.52	3.0	0.078	800.29	16.0	0.078	799.04	-0.078	8.0	798.42	
9+00.00	800.27	3.0	0.070	800.06	16.0	0.070	798.94	-0.070	8.0	798.38	
9+25.00	800.08	3.0	0.062	799.90	16.0	0.062	798.90	-0.062	8.0	798.40	
9+50.00	799.76	3.0	-0.016	799.81	16.0	0.054	798.94	-0.054	8.0	798.51	
9+51.10	799.76	3.0	-0.016	799.80	16.0	0.054	798.94	-0.054	8.0	798.51	END RAMP L

75477_psp01.dgn 04/23/08

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF RECONSTRUCTING 7 MILES OF I.R. 90. THE EXISTING PAVEMENT WILL BE REPLACED AND THE OUTSIDE SHOULDERS WILL BE WIDENED TO 12 FEET. IN ADDITION, THE RAMP PAVEMENT AT S.R. 528 WILL BE REPLACED.

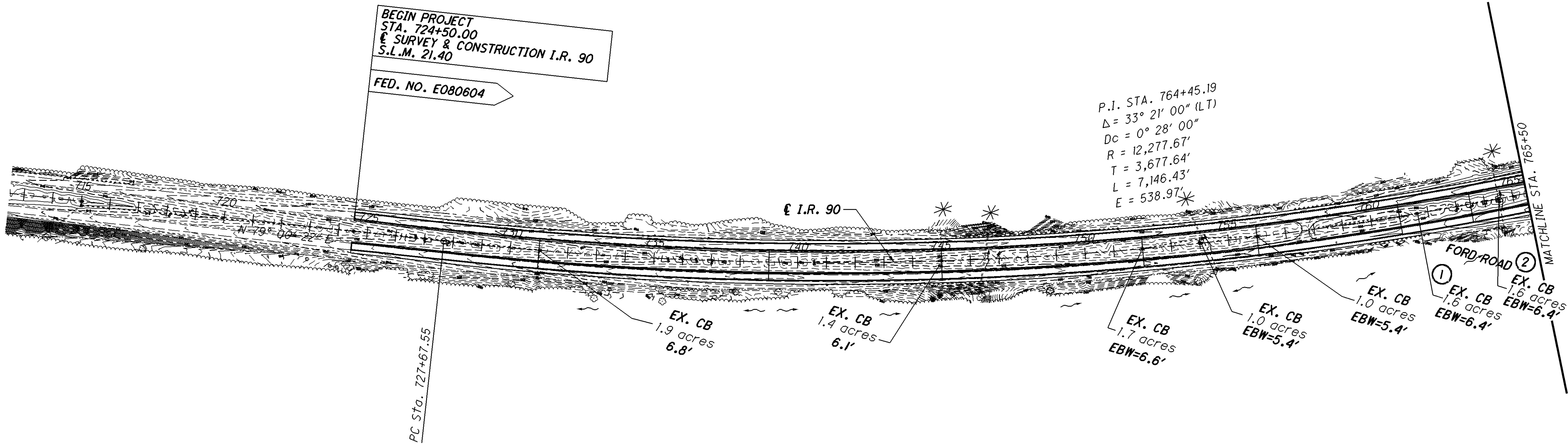
USGS QUADRANT NO.
41081-F1-TF-024 THOMPSON, OHIO
41081-F2-TF-024 PAINESVILLE, OHIO
41081-G1-TF-024 MADISON, OHIO

LONGITUDE: * 81°04'36"
LATITUDE: * 41°44'50"

* LONGITUDE AND LATITUDE TO APPROX. CENTER OF PROJECT

PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY)	300 ac	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.60
PROJECT EARTH DISTURBED AREA	170 ac	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.61
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	19 ac	SOIL AND WATER CONSERVATION MAP	SOIL SURVEY OF LAKE COUNTY
NOTICE OF INTENT EARTH DISTURBED AREA	189 ac	IMMEDIATE RECEIVING WATERS	GRAND RIVER, ARCOLA CREEK
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION AREA	78 ac	SUBSEQUENT RECEIVING WATERS . . .	LAKE ERIE
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION AREA	82 ac		



* DENOTES OUTFALL LOCATION

PROJECT INFORMATION		TREATED MEDIAN DITCH WIDTH PROVIDED
PROJECT EARTH DISTURBED AREA	170 ACRES	
20% PROJECT EARTH DISTURBED AREA	34 ACRES	
TOTAL ODOT R/W DRAINAGE AREA BEING TREATED	37.5 ACRES	
① ODOT R/W DRAINAGE AREA BEING TREATED	1.6 ACRES	7'
② ODOT R/W DRAINAGE AREA BEING TREATED	1.6 ACRES	7'

SEE I.R. 90 CROSS-SECTIONS FOR TREATED MEDIAN DITCH WIDTH PROVIDED

0200400

HORIZONTAL SCALE IN FEET

CALCULATED

R.G.

CHECKED

H.G.

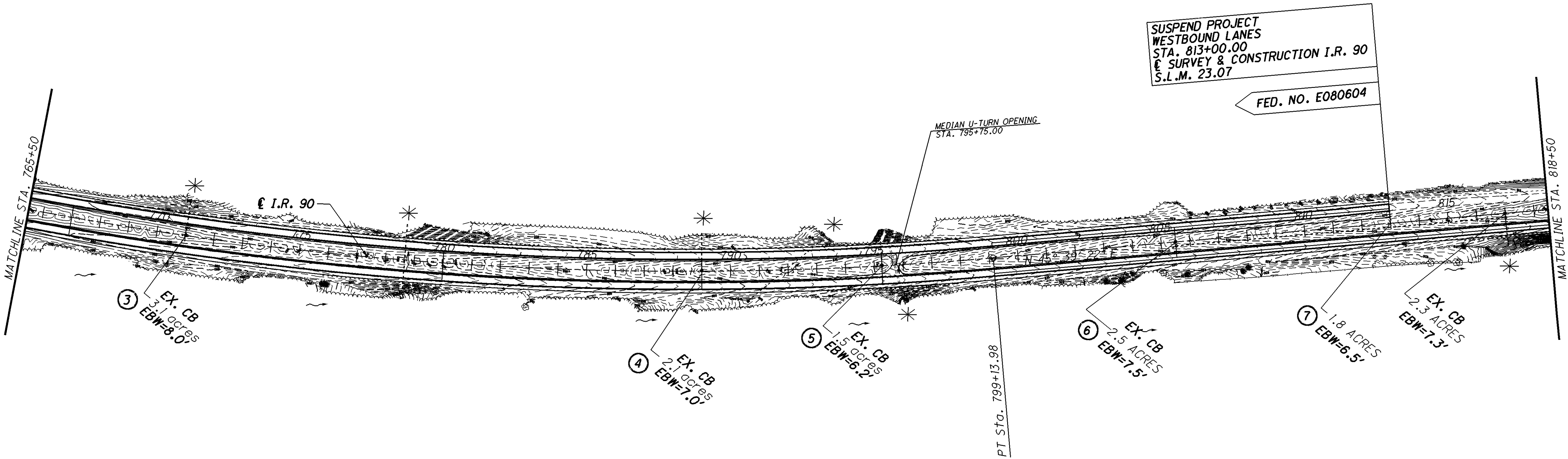
PROJECT SITE PLAN
STA. 726+00 TO STA. 765+50

LAK-90-21.40
ATB-90-0.00

113
498

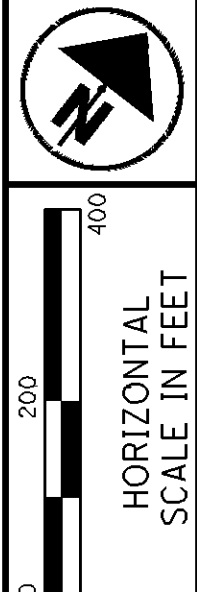
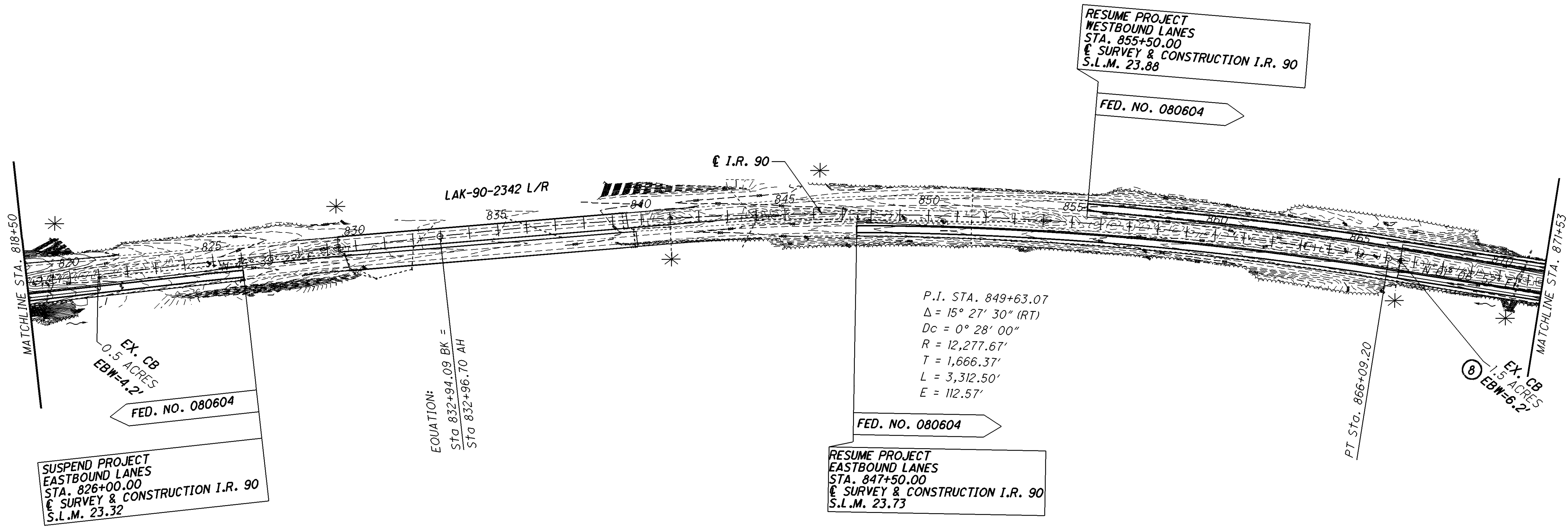
PROJECT INFORMATION		TREATED MEDIAN DITCH WIDTH PROVIDED
PROJECT EARTH DISTURBED AREA	170 ACRES	
20% PROJECT EARTH DISTURBED AREA	34 ACRES	
TOTAL ODOT R/W DRAINAGE AREA BEING TREATED	37.5 ACRES	
③ ODOT R/W DRAINAGE AREA BEING TREATED	1.6 ACRES	7'
④ ODOT R/W DRAINAGE AREA BEING TREATED	2.7 ACRES	7'
⑤ ODOT R/W DRAINAGE AREA BEING TREATED	1.5 ACRES	7'
⑥ ODOT R/W DRAINAGE AREA BEING TREATED	2.5 ACRES	7'
⑦ ODOT R/W DRAINAGE AREA BEING TREATED	1.8 ACRES	7'

SEE I.R. 90 CROSS-SECTIONS FOR TREATED MEDIAN DITCH WIDTH PROVIDED



PROJECT INFORMATION		TREATED MEDIAN DITCH WIDTH PROVIDED
PROJECT EARTH DISTURBED AREA	170 ACRES	
20% PROJECT EARTH DISTURBED AREA	34 ACRES	
TOTAL ODOT R/W DRAINAGE AREA BEING TREATED	37.5 ACRES	
⑧ ODOT R/W DRAINAGE AREA BEING TREATED	1.5 ACRES	7'

SEE I.R. 90 CROSS-SECTIONS FOR TREATED MEDIAN DITCH WIDTH PROVIDED



CALCULATED
R.G.
CHECKED
H.G.

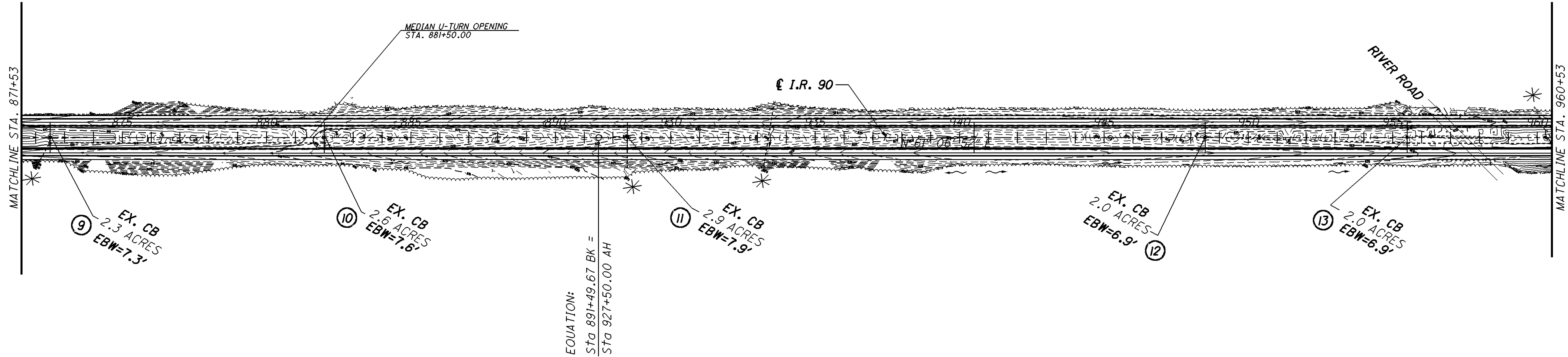
PROJECT SITE PLAN
STA. 818+50 TO STA. 871+53

LAK-90-21.40
ATB-90-0.00

* DENOTES OUTFALL LOCATION

PROJECT INFORMATION		TREATED MEDIAN DITCH WIDTH PROVIDED
PROJECT EARTH DISTURBED AREA	170 ACRES	
20% PROJECT EARTH DISTURBED AREA	34 ACRES	
TOTAL ODOT R/W DRAINAGE AREA BEING TREATED	37.5 ACRES	
⑨ ODOT R/W DRAINAGE AREA BEING TREATED	2.3 ACRES	7'
⑩ ODOT R/W DRAINAGE AREA BEING TREATED	2.6 ACRES	7'
⑪ ODOT R/W DRAINAGE AREA BEING TREATED	2.9 ACRES	7'
⑫ ODOT R/W DRAINAGE AREA BEING TREATED	2.0 ACRES	7'
⑬ ODOT R/W DRAINAGE AREA BEING TREATED	2.0 ACRES	7'

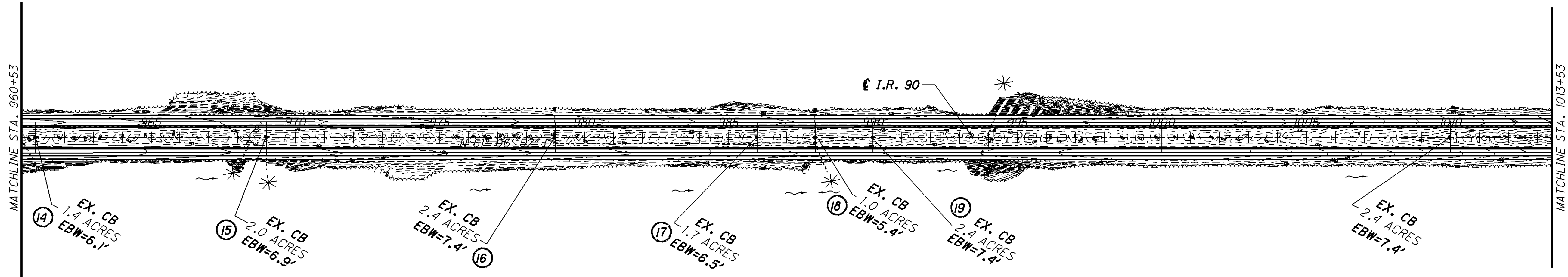
SEE I.R. 90 CROSS-SECTIONS FOR TREATED MEDIAN DITCH WIDTH PROVIDED



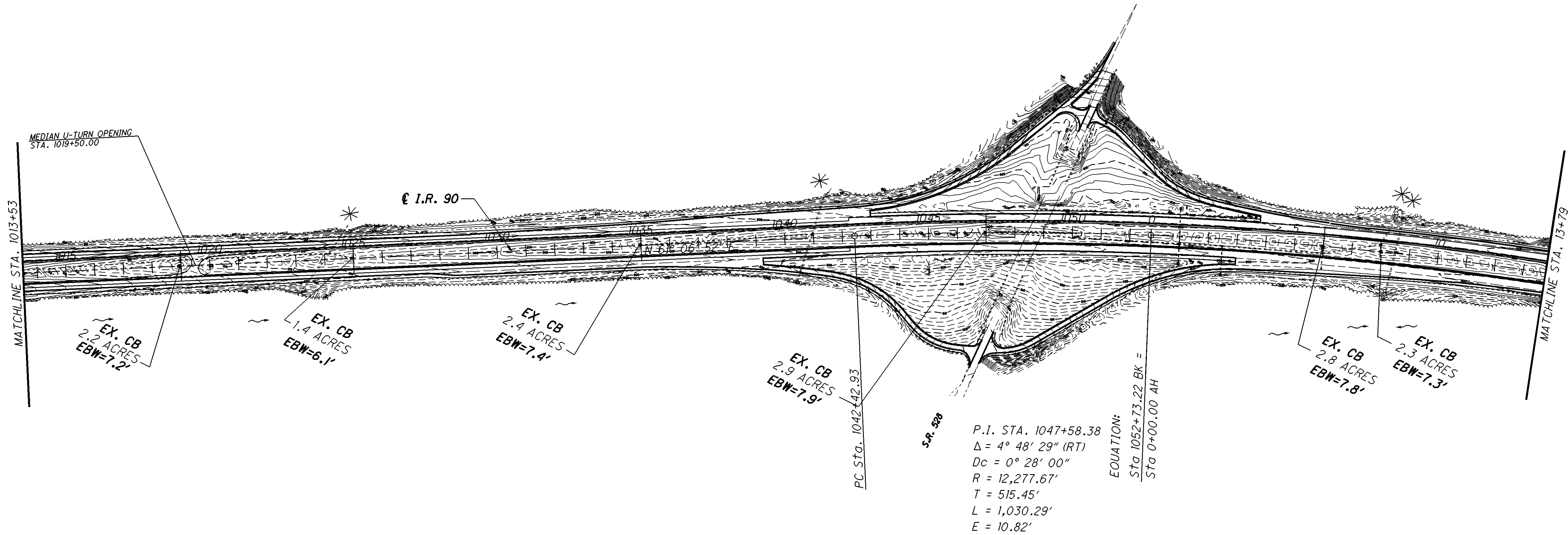
* DENOTES OUTFALL LOCATION

PROJECT INFORMATION		TREATED MEDIAN DITCH WIDTH PROVIDED
PROJECT EARTH DISTURBED AREA	170 ACRES	
20% PROJECT EARTH DISTURBED AREA	34 ACRES	
TOTAL ODOT R/W DRAINAGE AREA BEING TREATED	37.5 ACRES	
⑭ ODOT R/W DRAINAGE AREA BEING TREATED	1.4 ACRES	7'
⑮ ODOT R/W DRAINAGE AREA BEING TREATED	2.0 ACRES	7'
⑯ ODOT R/W DRAINAGE AREA BEING TREATED	2.4 ACRES	7'
⑰ ODOT R/W DRAINAGE AREA BEING TREATED	1.7 ACRES	7'
⑱ ODOT R/W DRAINAGE AREA BEING TREATED	1.0 ACRE	7'
⑲ ODOT R/W DRAINAGE AREA BEING TREATED	2.4 ACRES	7'

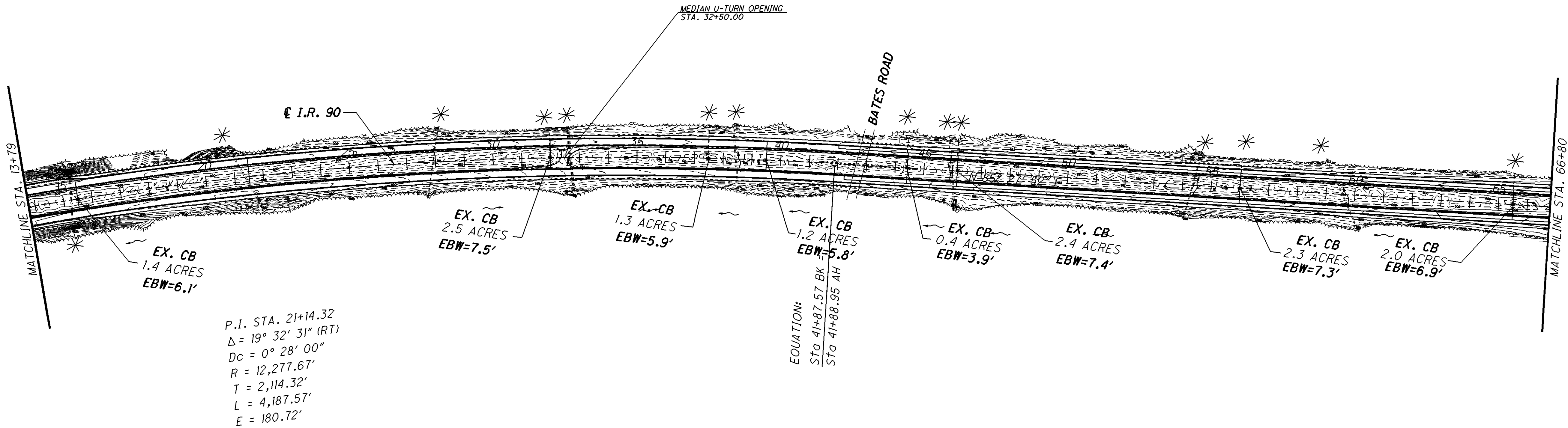
SEE I.R. 90 CROSS-SECTIONS FOR TREATED MEDIAN DITCH WIDTH PROVIDED



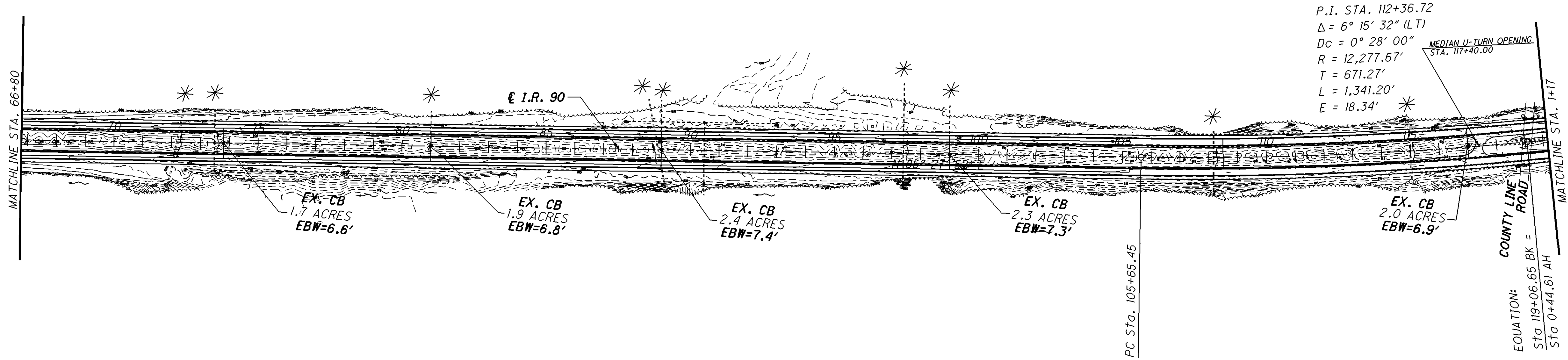
* DENOTES OUTFALL LOCATION



* DENOTES OUTFALL LOCATION

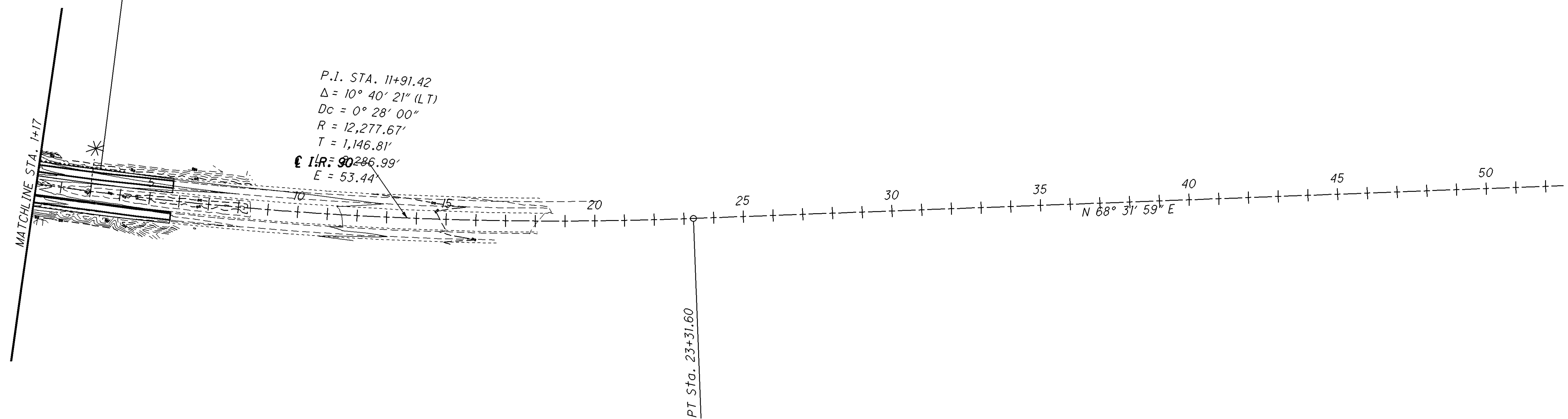


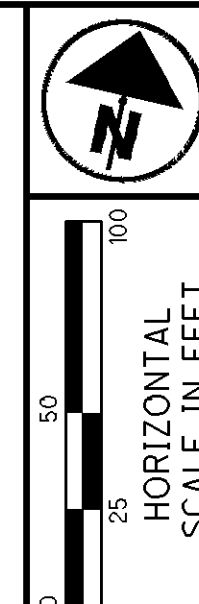
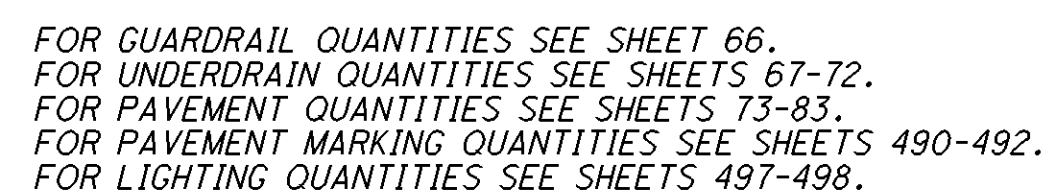
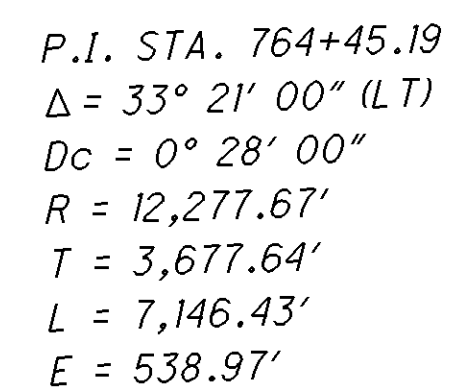
* DENOTES OUTFALL LOCATION



END PROJECT
STA. 3+25.00
SURVEY & CONSTRUCTION I.R. 90
S.L.M. 0.05

FED. NO. E080604



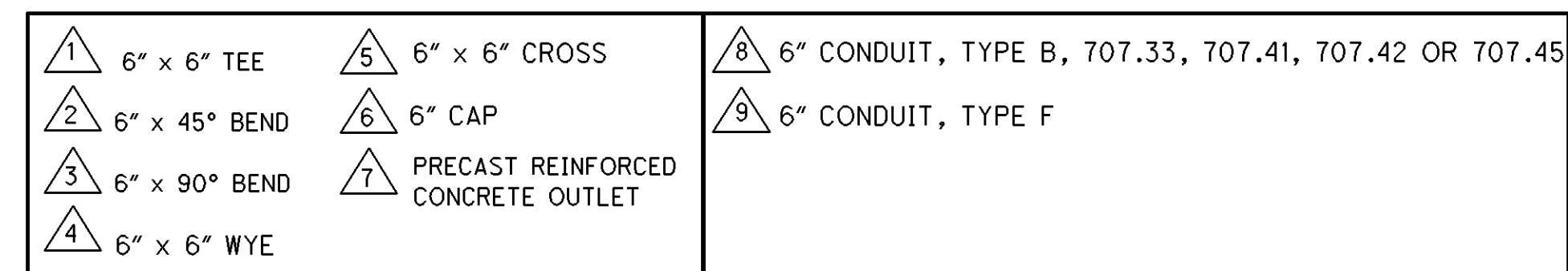


CALCULATED	M.M.
CHECKED	J.C.

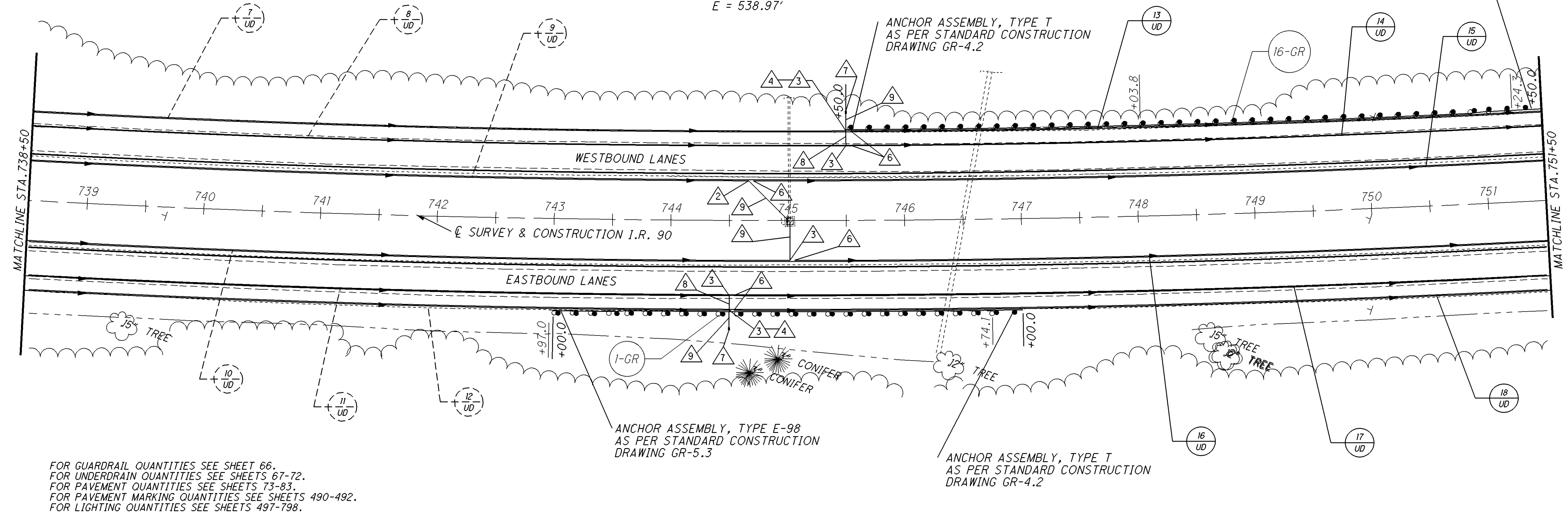
**PLAN AND PROFILE I.R. 90
STA. 725+50 TO STA. 738+50**

LAK-90-21.40
ATB-90-0.00

123
498



P.I. STA. 764+45.19
 $\Delta = 33^\circ 21' 00''$ (LT)
 $Dc = 0^\circ 28' 00''$
 $R = 12,277.67'$
 $T = 3,677.64'$
 $L = 7,146.43'$
 $E = 538.97'$

[illegible]

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.

ITEM 622 CONCRETE BARRIER,
SINGLE SLOPE, TYPE D
AS PER STANDARD CONSTRUCTION
DRAWING RM-4.5

ANCHOR ASSEMBLY, TYPE T
AS PER STANDARD CONSTRUCTION
DRAWING GR-4.2

BRIDGE NO.
LAK-90-2210

MEDIAN U-TURN OPENING
STA. 757+70.00

BRIDGE TERMINAL ASSEMBLY, TYPE 1
AS PER STANDARD CONSTRUCTION
DRAWING GR-3.1

P.I. STA. 764+45.19
 $\Delta = 33^\circ 21' 00''$ (LT)
 $D_c = 0^\circ 28' 00''$
 $R = 12,277.67'$
 $T = 3,677.64'$
 $L = 7,146.43'$
 $E = 538.97'$

ANCHOR ASSEMBLY, TYPE E-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.3

ANCHOR ASSEMBLY, TYPE B-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.2

ANCHOR ASSEMBLY, TYPE E-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.3

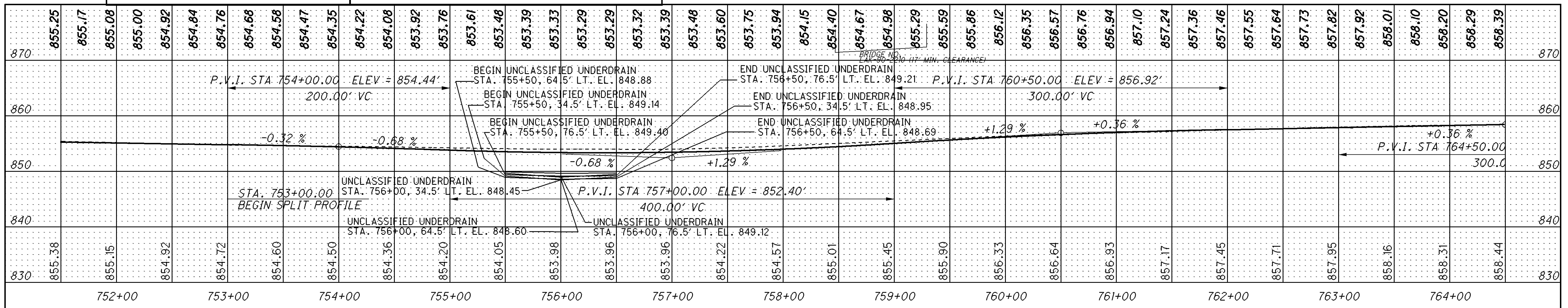
BRIDGE TERMINAL ASSEMBLY, TYPE 1
AS PER STANDARD CONSTRUCTION
DRAWING GR-3.1

ITEM 622 CONCRETE BARRIER,
SINGLE SLOPE, TYPE D
AS PER STANDARD CONSTRUCTION
DRAWING RM-4.5

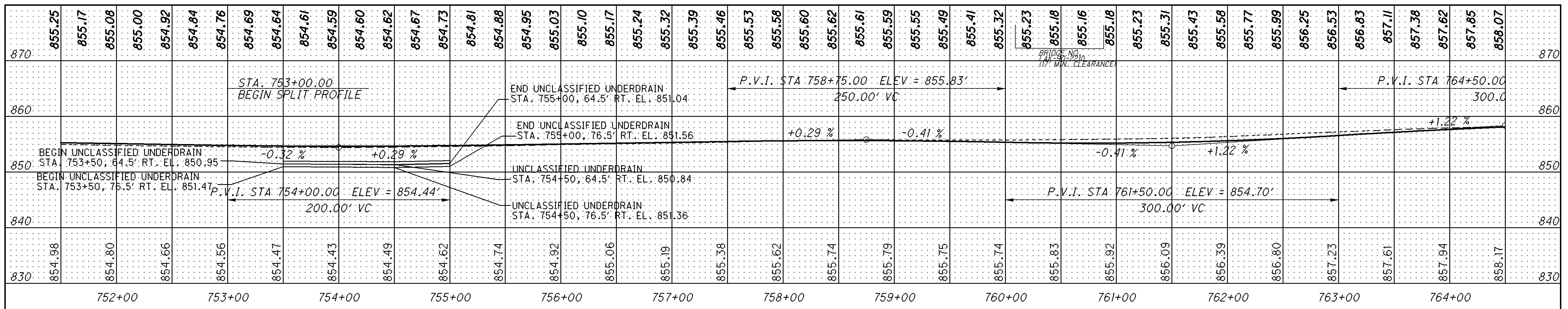
ANCHOR ASSEMBLY, TYPE B-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.2

- | | | | | | |
|---|---------------|---|------------------------------------|----|--|
| 1 | 6" x 6" TEE | 5 | 6" x 6" CROSS | 8 | 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45 |
| 2 | 6" x 45° BEND | 6 | 6" CAP | 9 | 6" CONDUIT, TYPE F |
| 3 | 6" x 90° BEND | 7 | PRECAST REINFORCED CONCRETE OUTLET | 10 | 6" UNCLASSIFIED UNDERDRAIN |
| 4 | 6" x 6" WYE | | | | |

WESTBOUND PROFILE



EASTBOUND PROFILE



0 25 50 100
HORIZONTAL
SCALE IN FEET

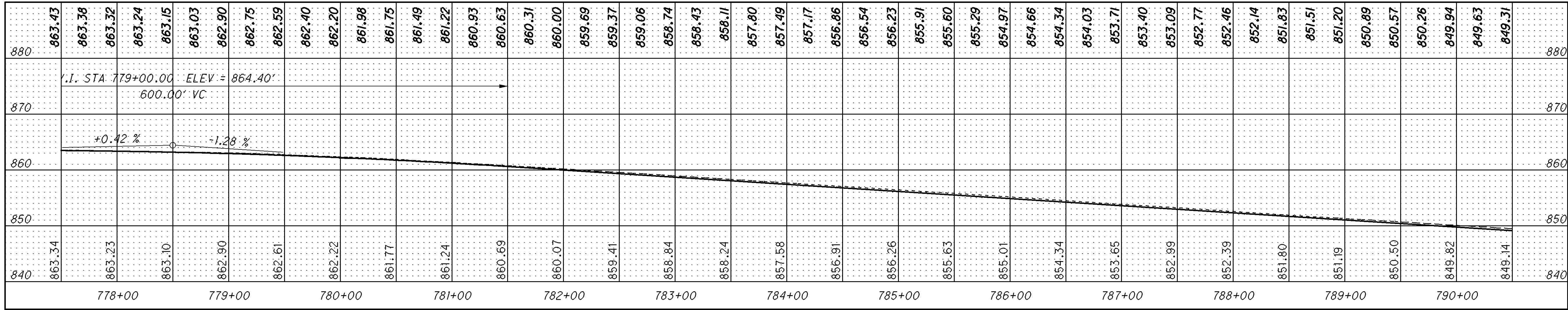
CALCULATED
CHECKED
J.C.

PLAN AND PROFILE I.R. 90
STA. 751+50 TO STA. 764+50

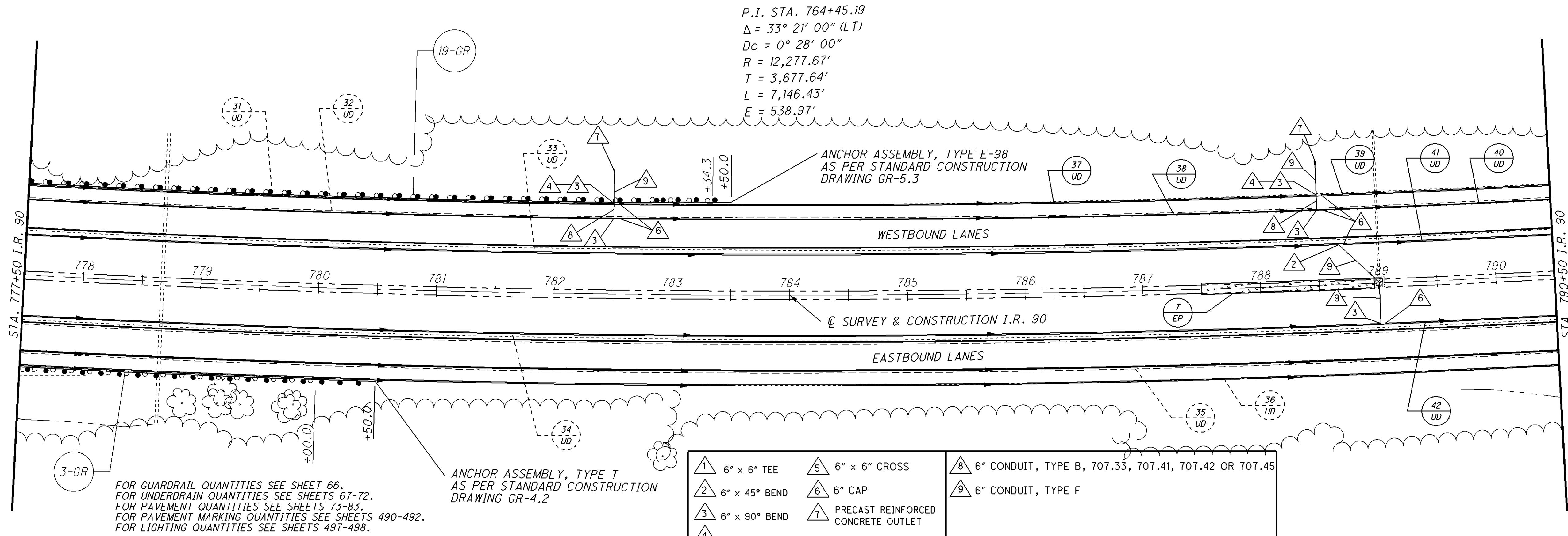
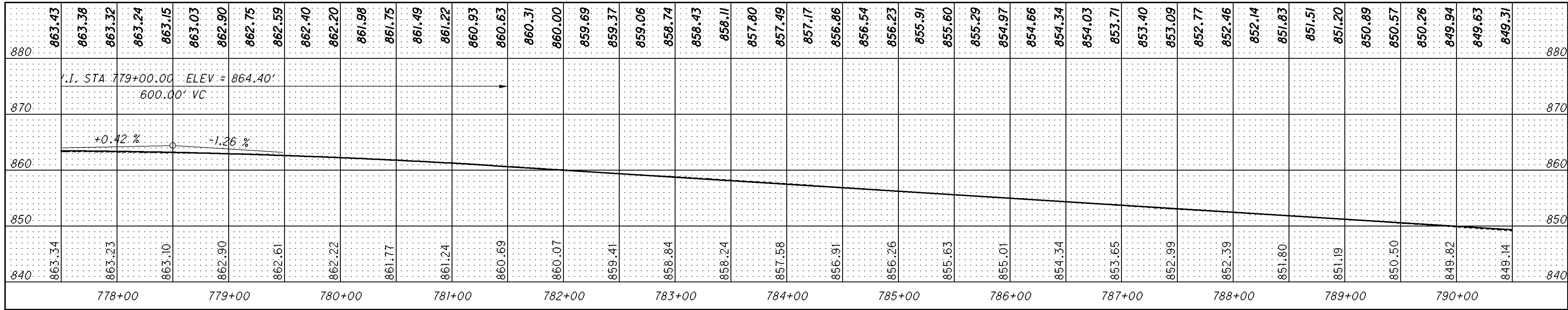
LAK-90-21.40
ATB-90-0.00

125
498

WESTBOUND PROFILE



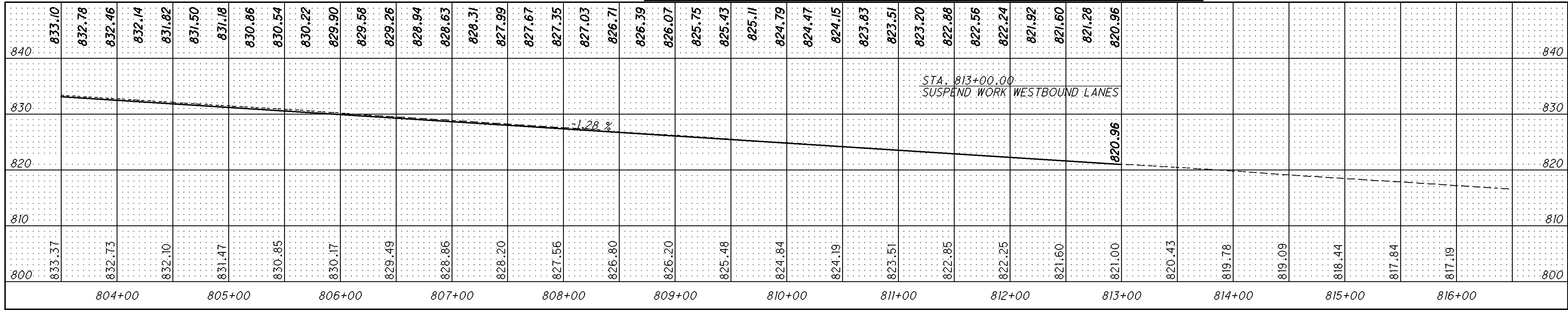
EASTBOUND PROFILE



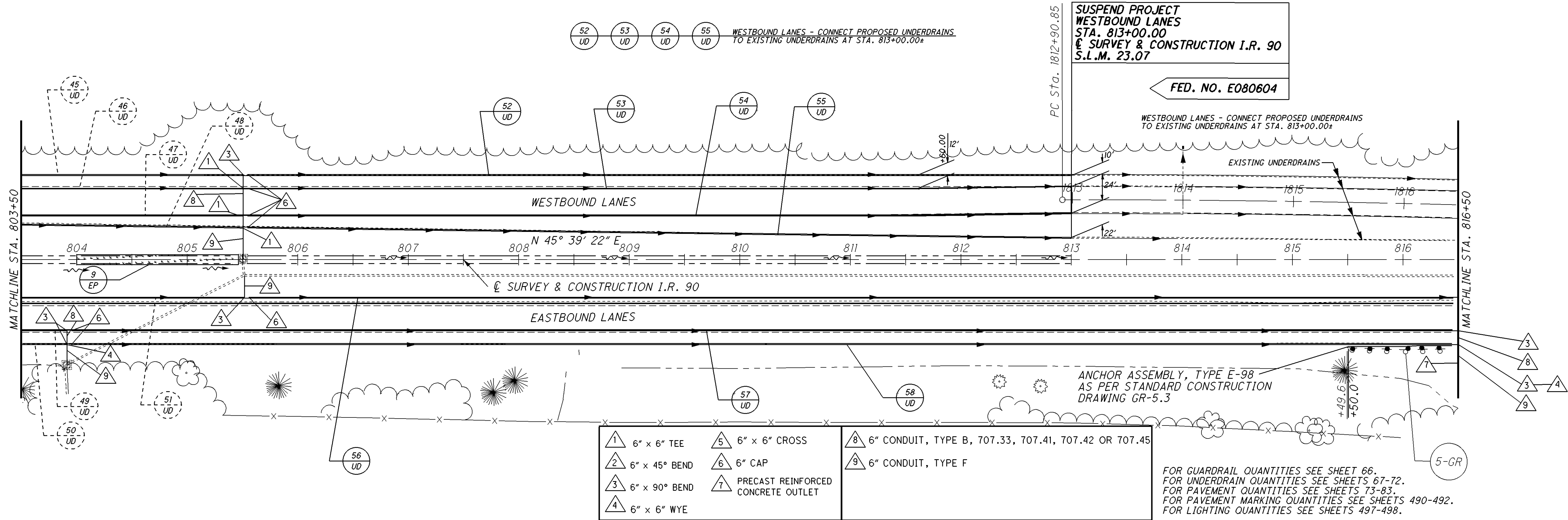
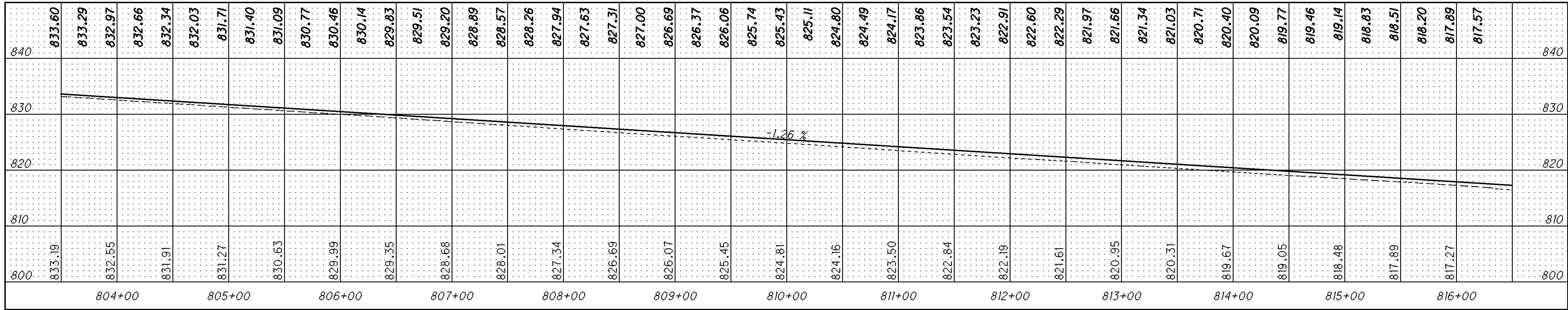
1 6" x 6" TEE	6 6" x 6" CROSS	8 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
2 6" x 45° BEND	7 6" CAP	9 6" CONDUIT, TYPE F
3 6" x 90° BEND	7 PRECAST REINFORCED CONCRETE OUTLET	
4 6" x 6" WYE		

FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72

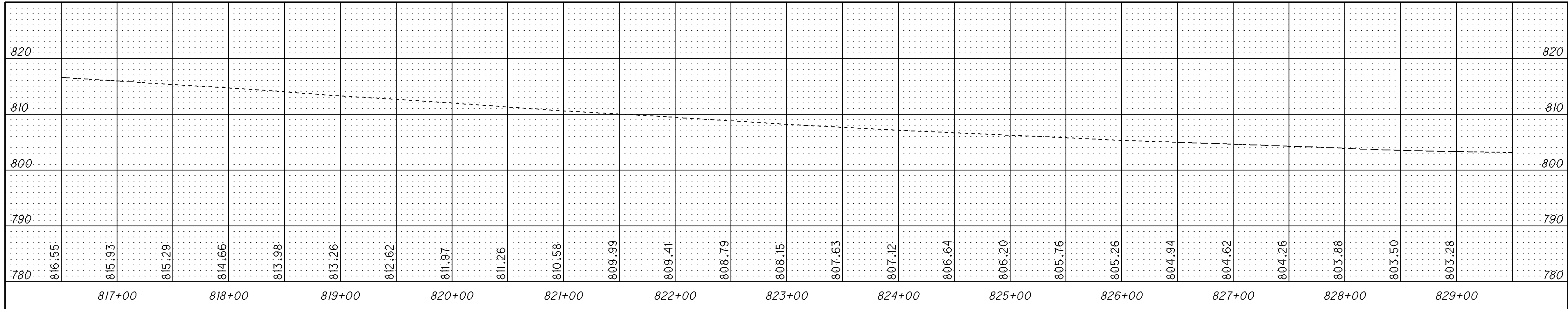
WESTBOUND PROFILE



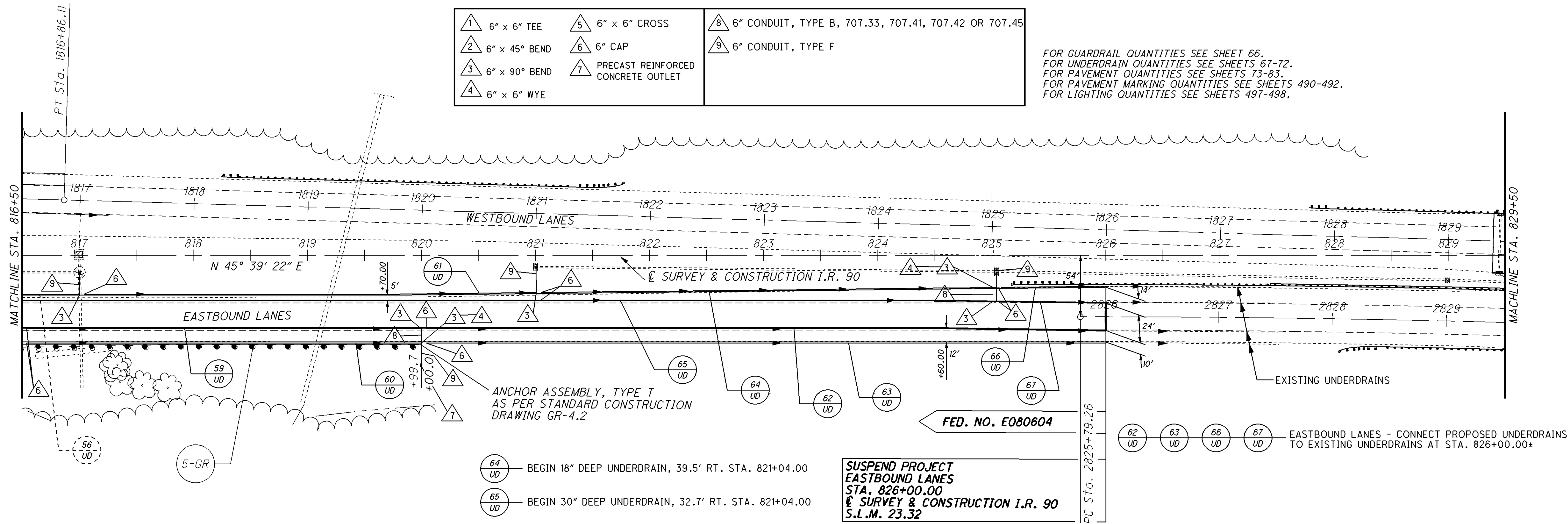
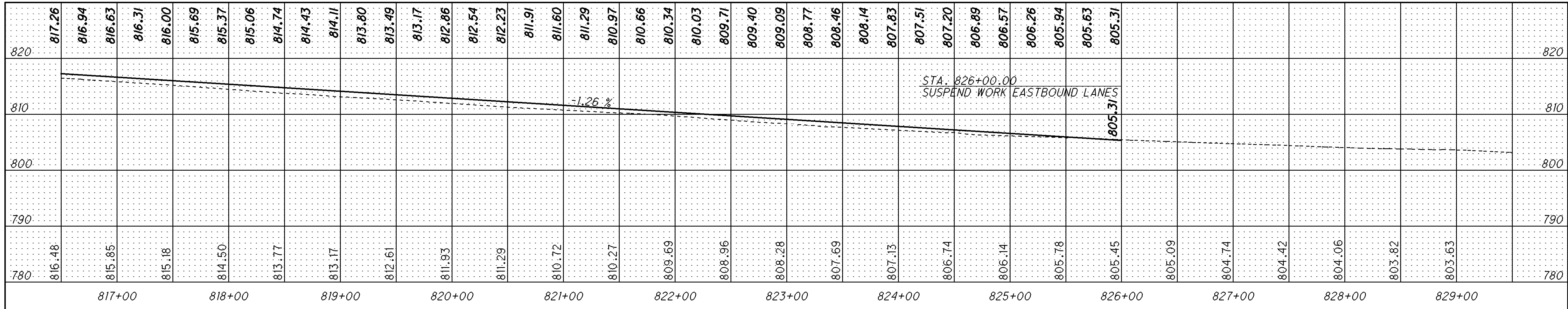
EASTBOUND PROFILE

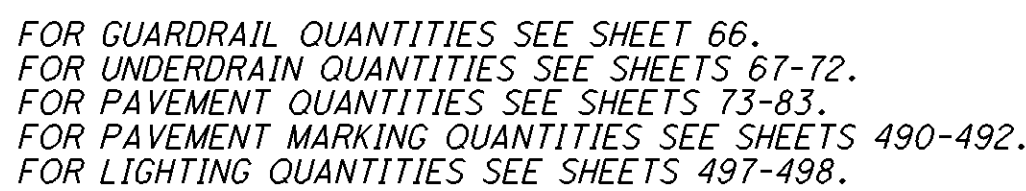


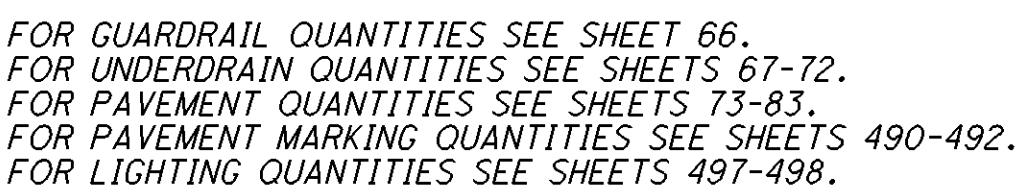
WESTBOUND PROFILE



EASTBOUND PROFILE







RESUME PROJECT
WESTBOUND LANES
STA. 855+50.00
€ SURVEY & CONSTRUCTION I.R. 90
S.L.M. 23.87

FED. NO. E080604



RESUME PROJECT
EASTBOUND LANES
STA. 847+50.00
@ SURVEY & CONSTRUCTION I.R. 90
S.L.M. 23.73

FED. NO. E080604



CHECKED
J.C.

PLAN AND PROFILE I.R. 90
STA. 842+53 TO STA. 855+53

LAK-90-21.40
ATB-90-0.00

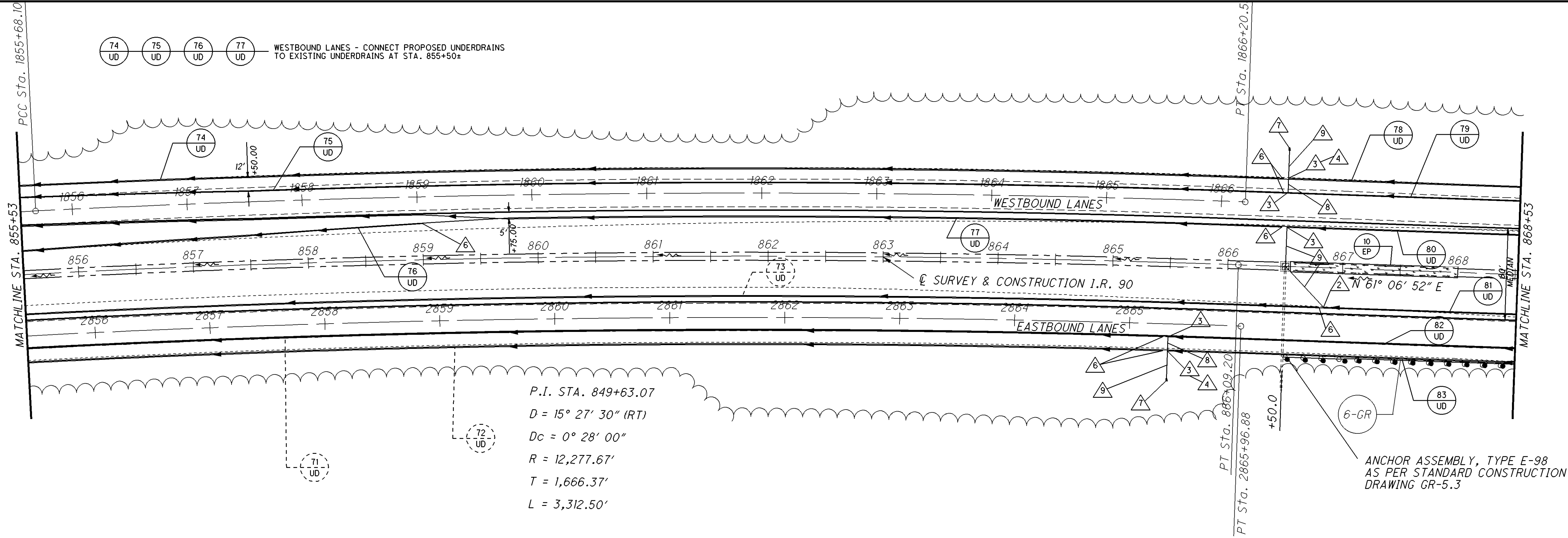
$$\frac{132}{498}$$

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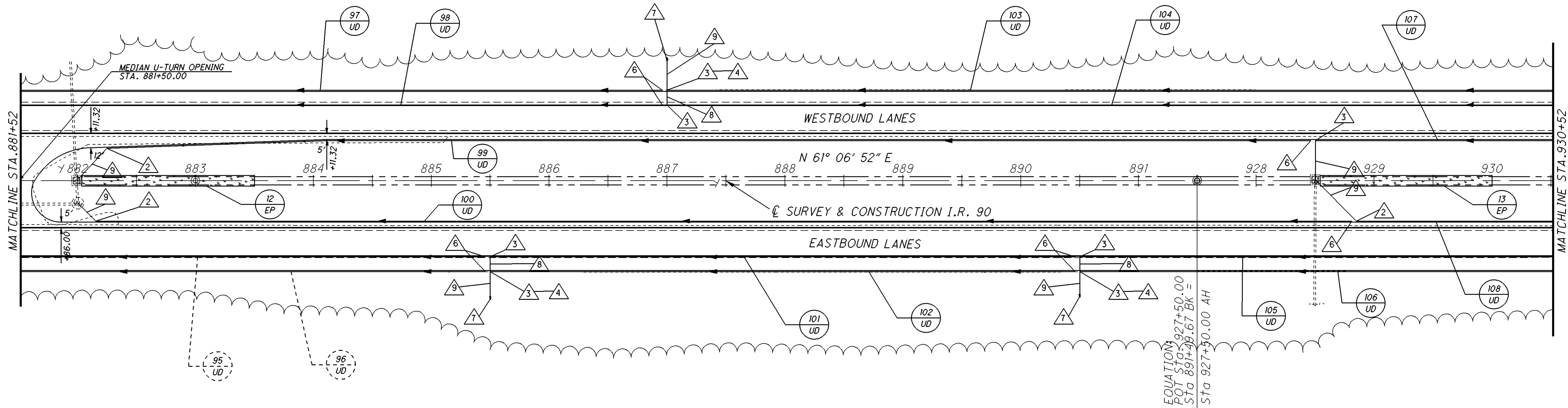
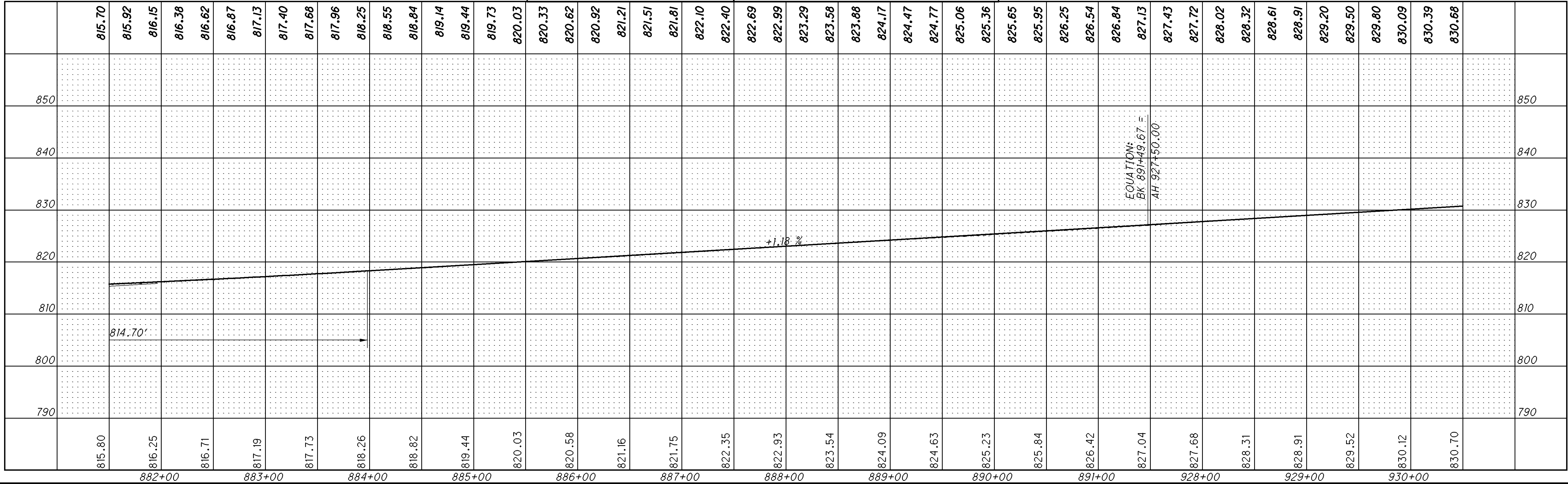
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	804.66	804.86	805.06	805.24	805.40	805.64	805.88	806.08	806.24	806.40	806.58	806.77	806.95	807.13	807.32	807.53	807.77	807.99	808.20	808.40	808.58	808.75	808.97	809.16	809.35	809.54	809.70																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

1 6" x 6" TEE	5 6" x 6" CROSS	8 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
2 6" x 45° BEND	6 6" CAP	9 6" CONDUIT, TYPE F
3 6" x 90° BEND	7 PRECAST REINFORCED CONCRETE OUTLET	
4 6" x 6" WYE		

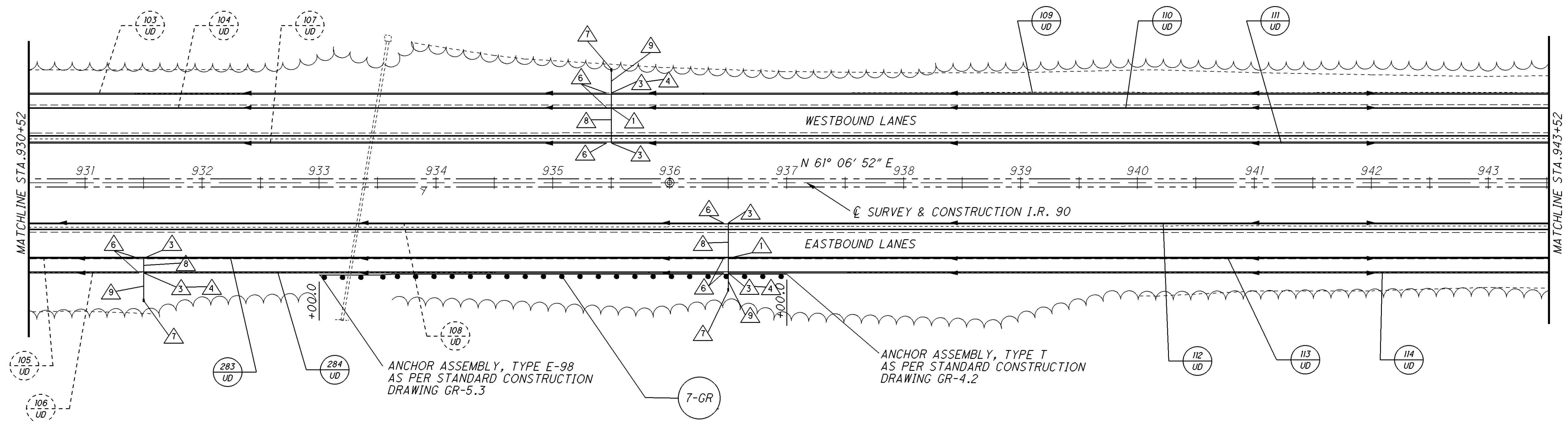
FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.



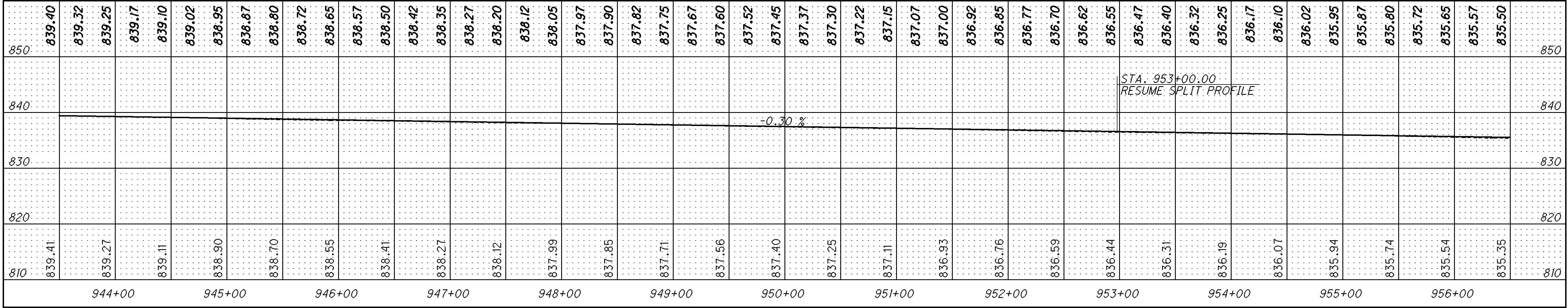
75477ppp014.dgn 03/17/08



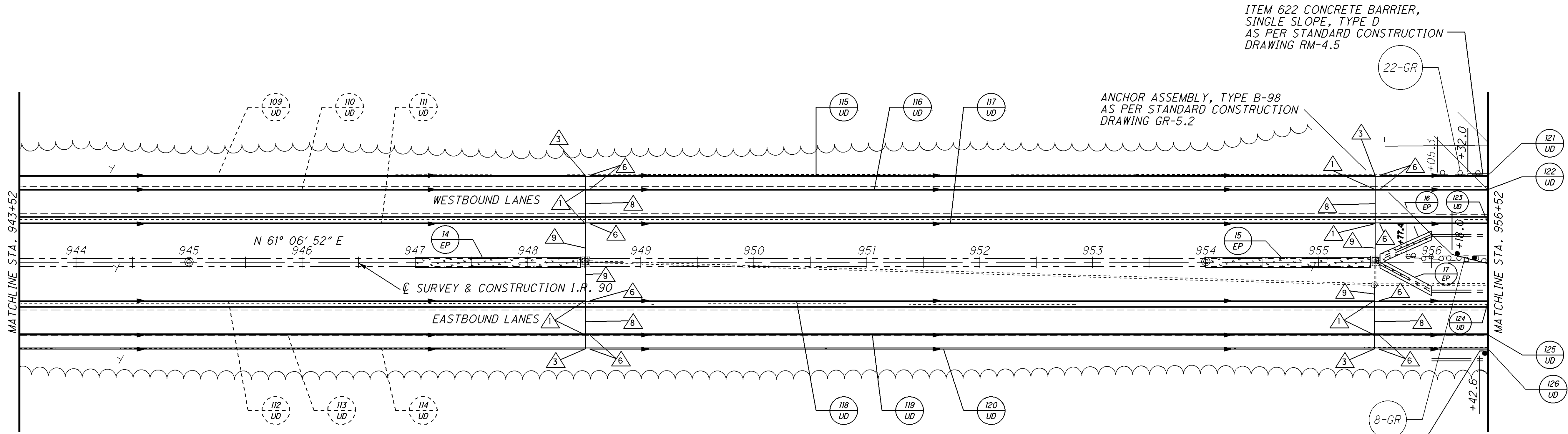
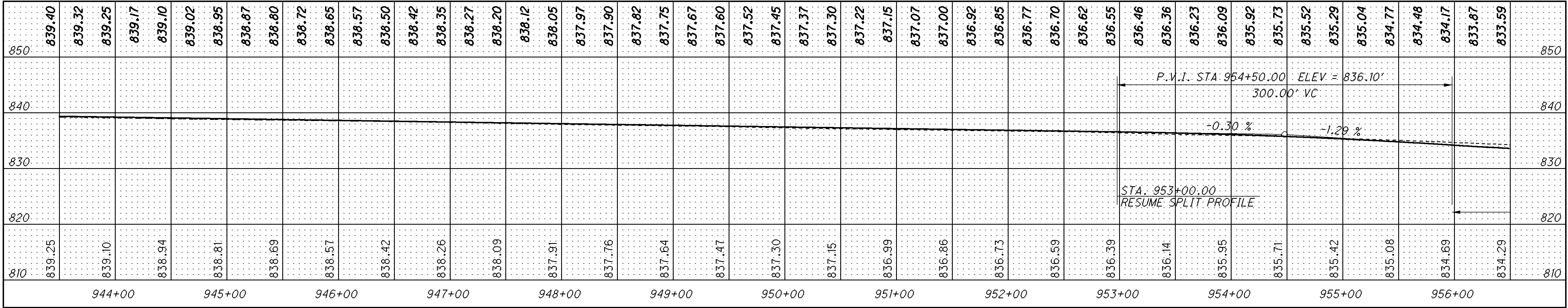
1 6" x 6" TEE	5 6" x 6" CROSS	8 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
2 6" x 45° BEND	6 6" CAP	9 6" CONDUIT, TYPE F
3 6" x 90° BEND	7 PRECAST REINFORCED CONCRETE OUTLET	
4 6" x 6" WYE		

[illegible]

WESTBOUND PROFILE

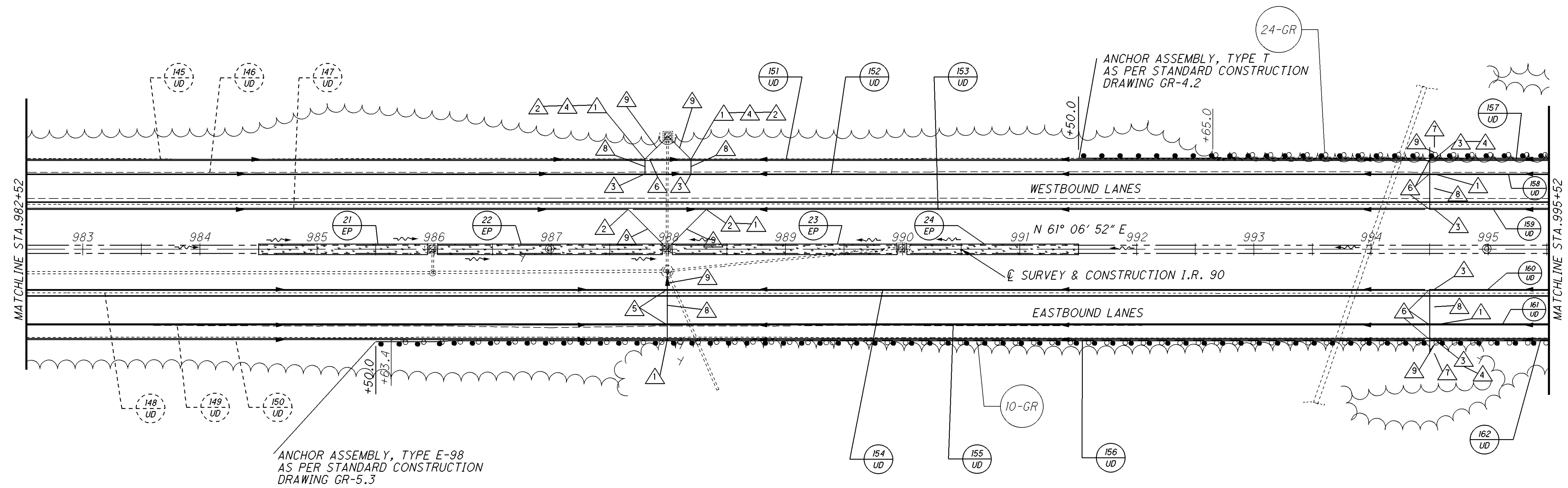


EASTBOUND PROFILE



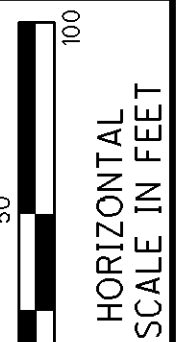
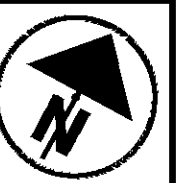
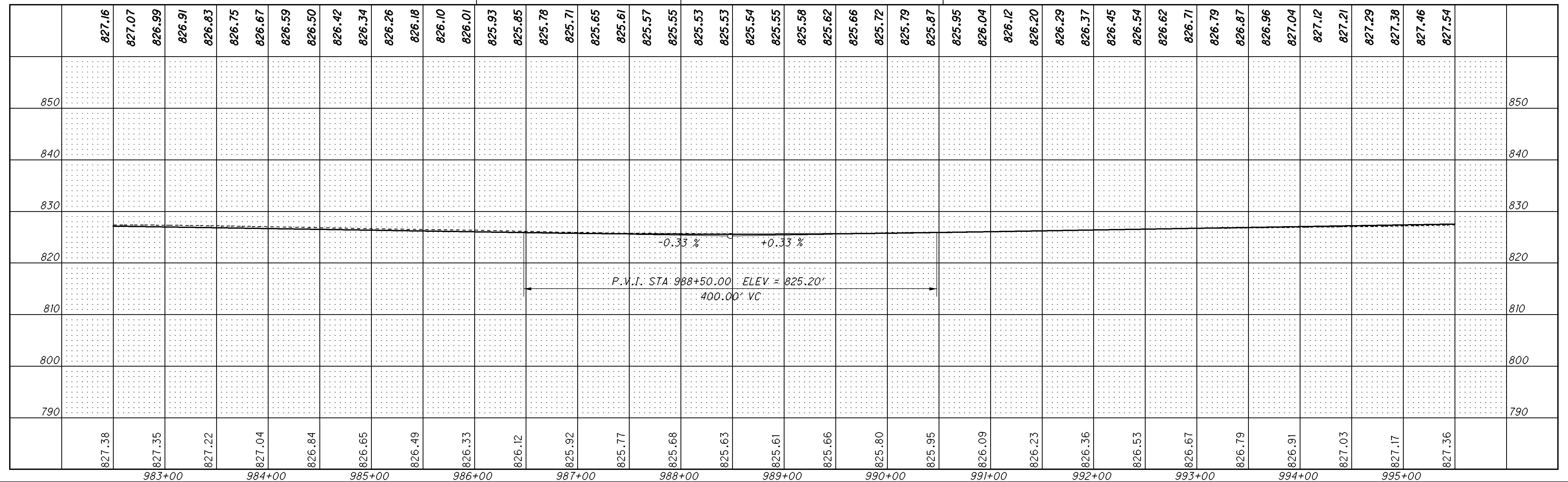
- 1 6" x 6" TEE
- 2 6" x 45° BEND
- 3 6" x 90° BEND
- 4 6" x 6" WYE
- 5 6" x 6" CROSS
- 6 6" CAP
- 7 PRECAST REINFORCED CONCRETE OUTLET
- 8 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
- 9 6" CONDUIT, TYPE F

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.



 6" x 6" TEE	 6" x 6" CROSS	 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
 6" x 45° BEND	 6" CAP	 6" CONDUIT, TYPE F
 6" x 90° BEND	 PRECAST REINFORCED CONCRETE OUTLET	
 6" x 6" WYE		

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.



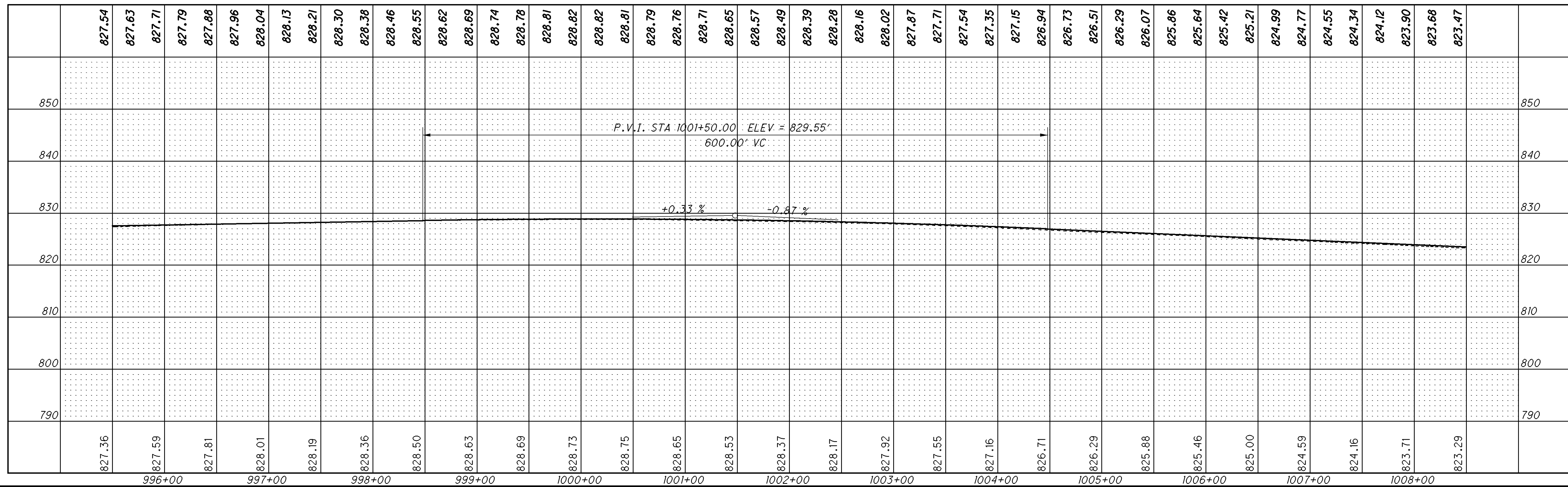
CALCULATED	M.M.
CHECKED	J.C.

**PLAN AND PROFILE I.R. 90
STA. 982+52 TO STA. 995+52**

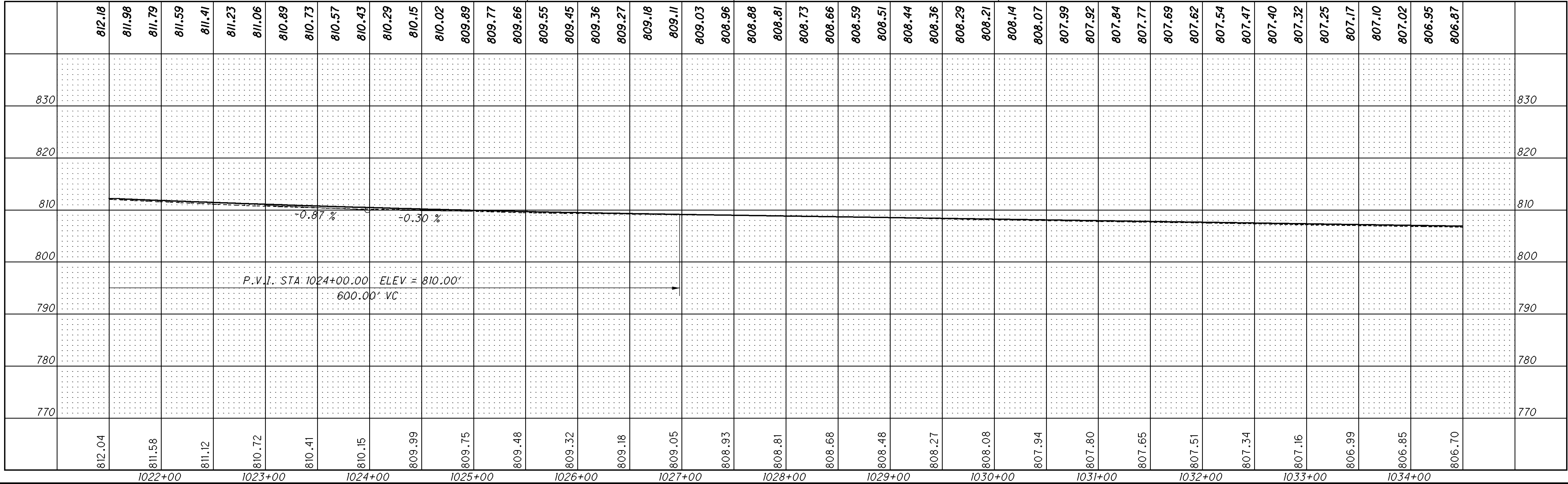
LAK-90-21.40
ATB-90-0.00

140
498

141
498



75477ppp022.dgn 03/18/08



- 1

6" x 6" TEE

2

6" x 45° BEND

3

6" x 90° BEND

4

6" x 6" WYE
- 5

6" x 6" CROSS

6

6" CAP

7

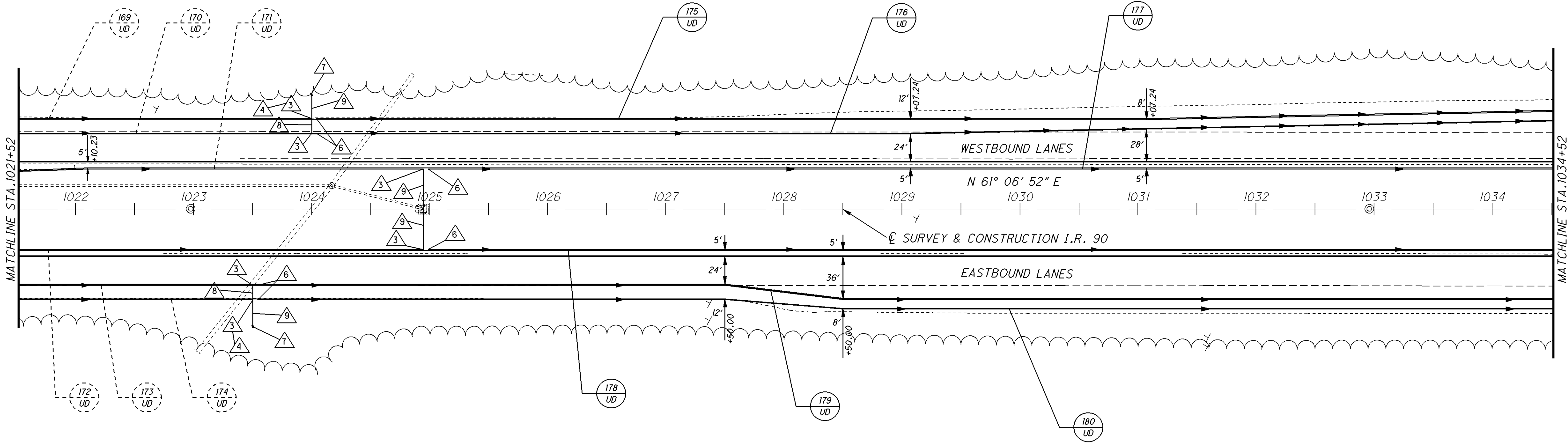
PRECAST REINFORCED
CONCRETE OUTLET
- 8

6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45

9

6" CONDUIT, TYPE F

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.



- 1

6" x 6" TEE
- 2

6" x 45° BEND
- 3

6" x 90° BEND
- 4

6" x 6" WYE

5

6" x 6" CROSS

6

6" CAP

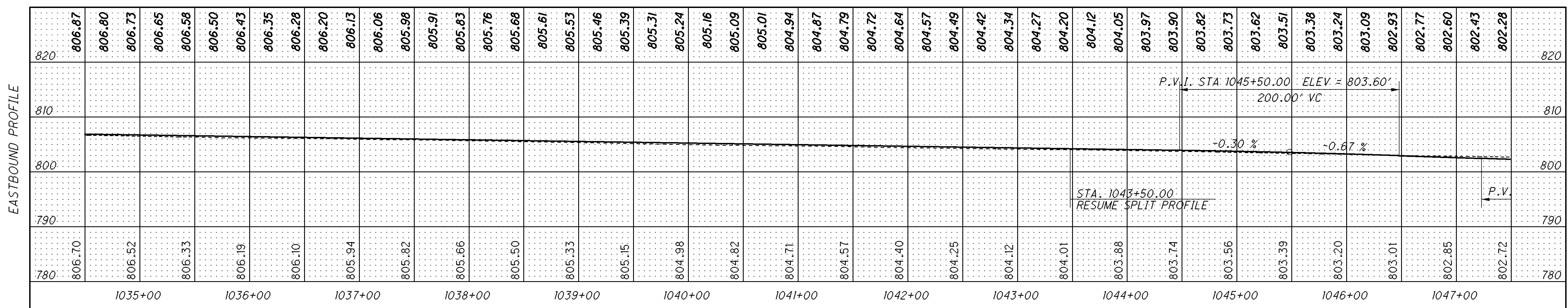
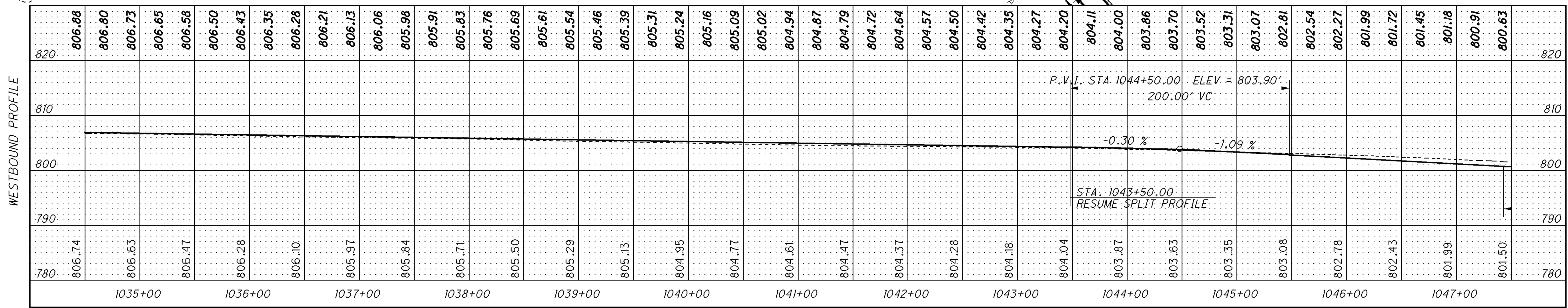
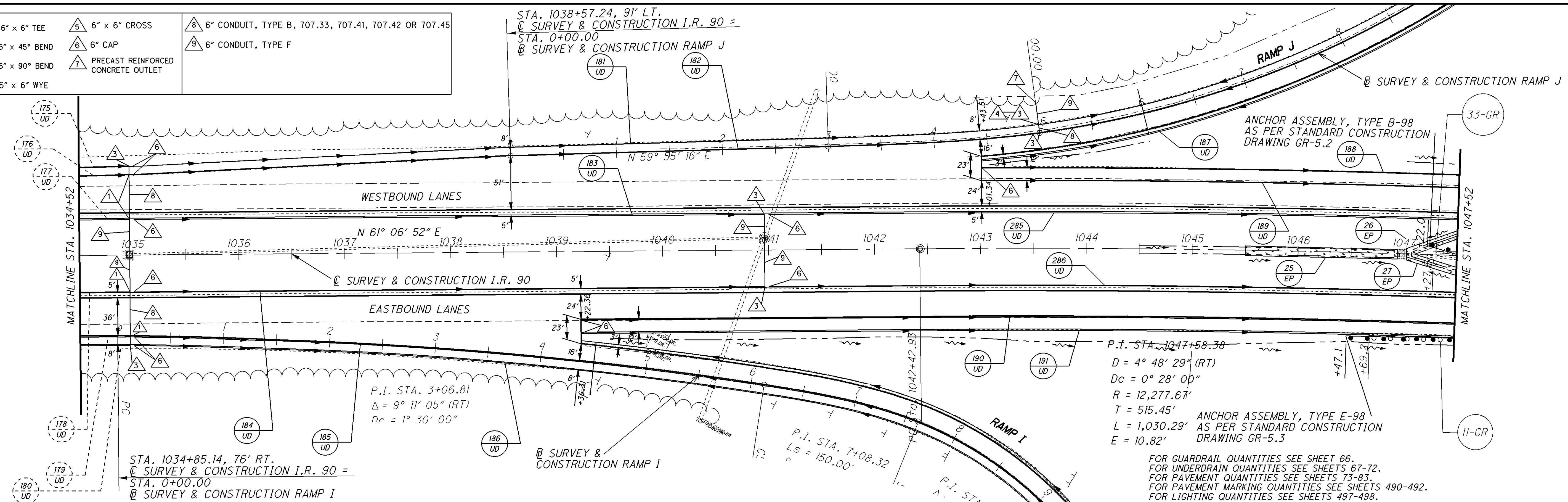
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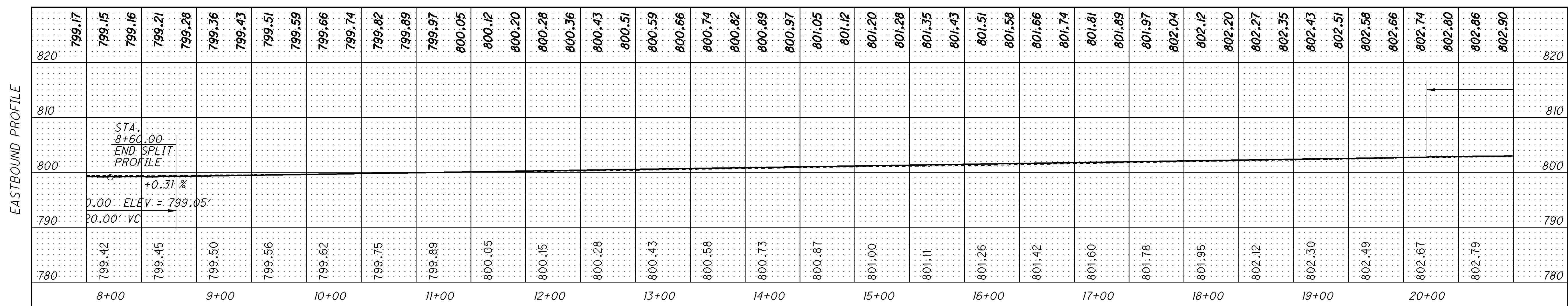
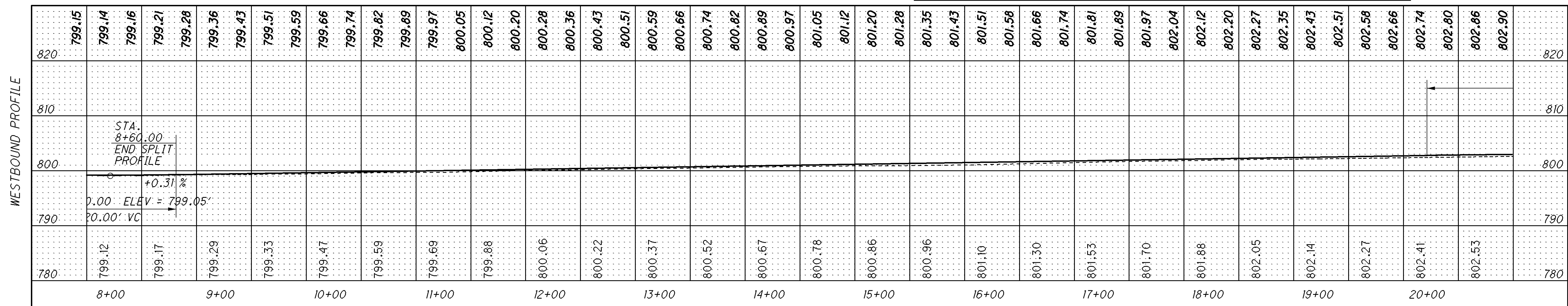
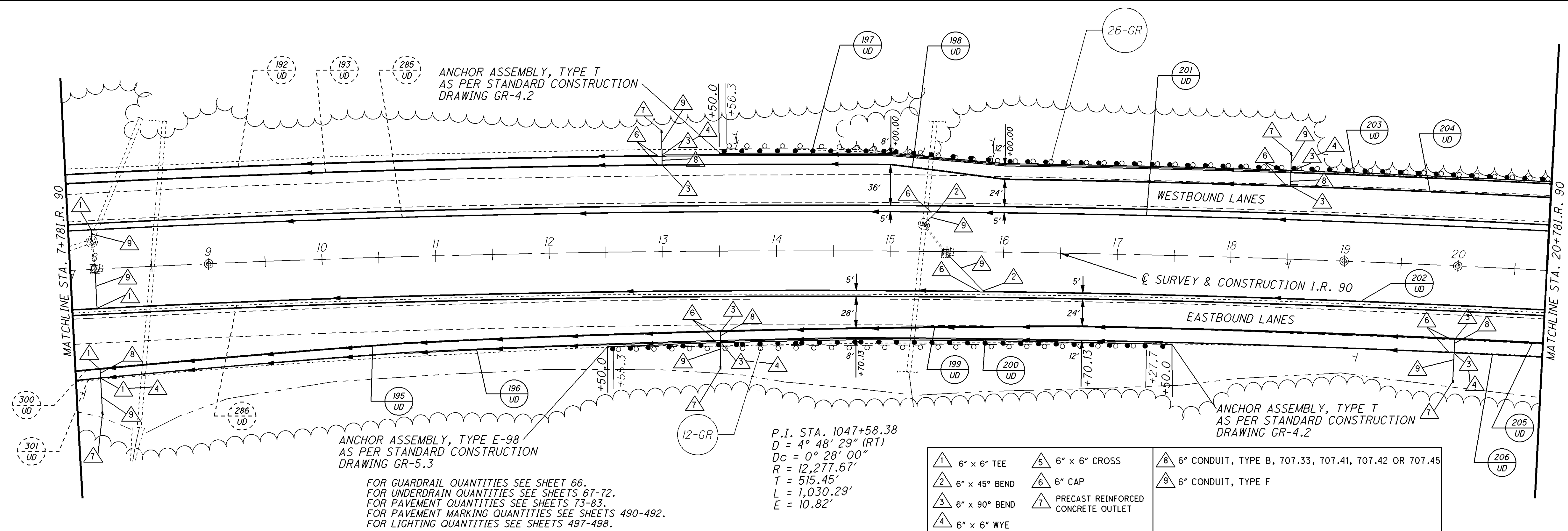
PRECAST REINFORCED CONCRETE OUTLET

8

6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45

9

6" CONDUIT, TYPE F

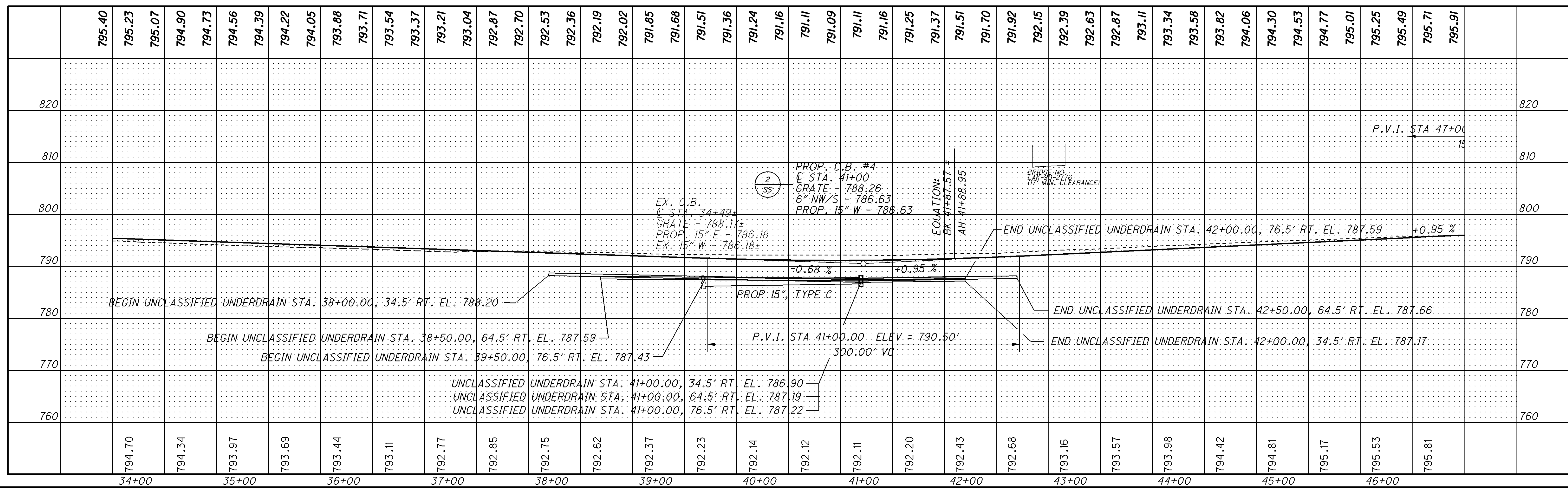
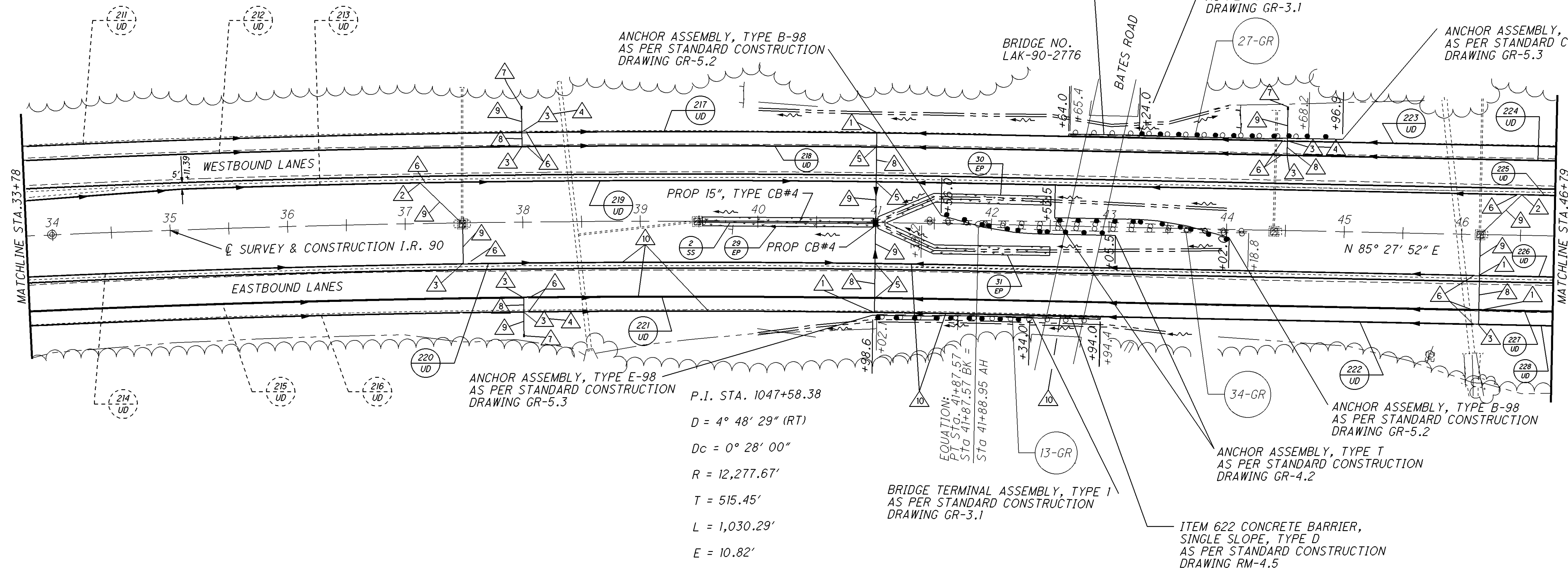


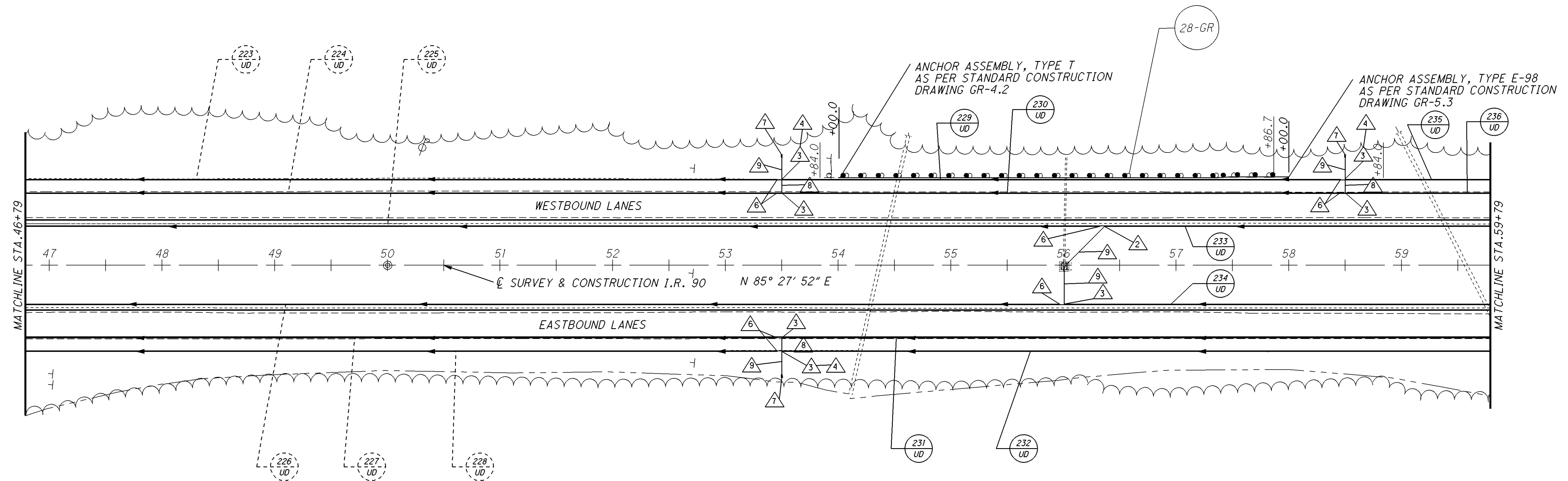
 1 6" x 6" TEE	 5 6" x 6" CROSS	 8 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
 2 6" x 45° BEND	 6 6" CAP	 9 6" CONDUIT, TYPE F
 3 6" x 90° BEND	 7 PRECAST REINFORCED CONCRETE OUTLET	 10 6" UNCLASSIFIED UNDRDRAIN
 4 6" x 6" WYE		

— ITEM 622 CONCRETE BARRIER,
SINGLE SLOPE, TYPE D
AS PER STANDARD CONSTRUCTION
DRAWING RM-4.5

BRIDGE TERMINAL ASSEMBLY, TYPE 1
AS PER STANDARD CONSTRUCTION
DRAWING GR-3.1

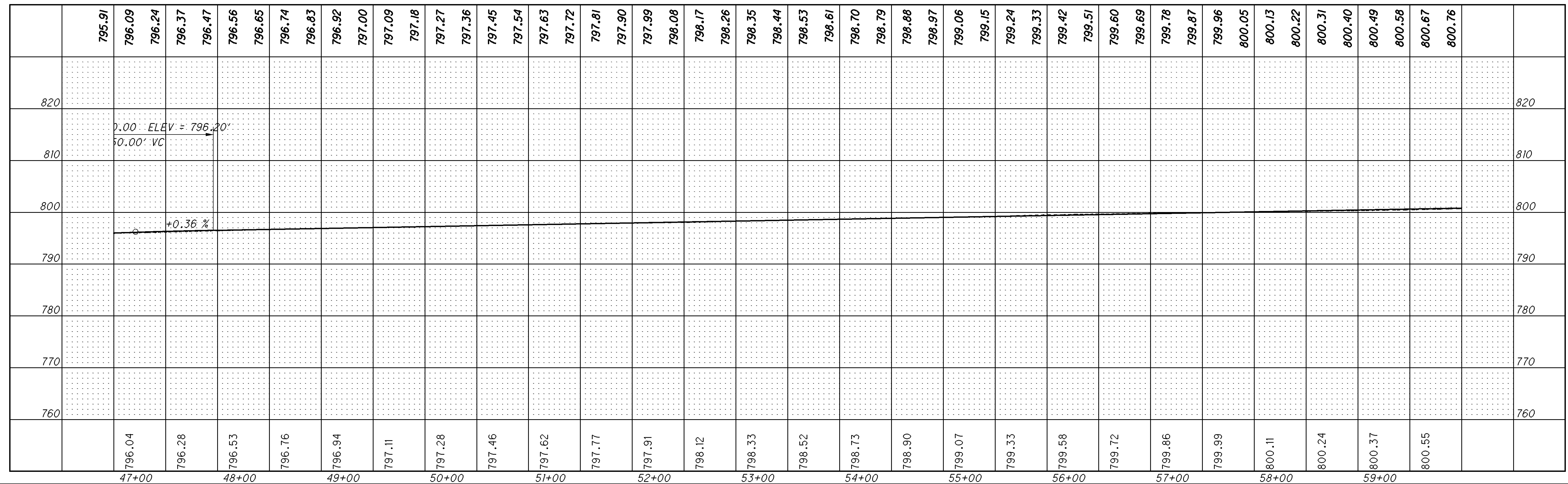
ANCHOR ASSEMBLY, TYPE E-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.3

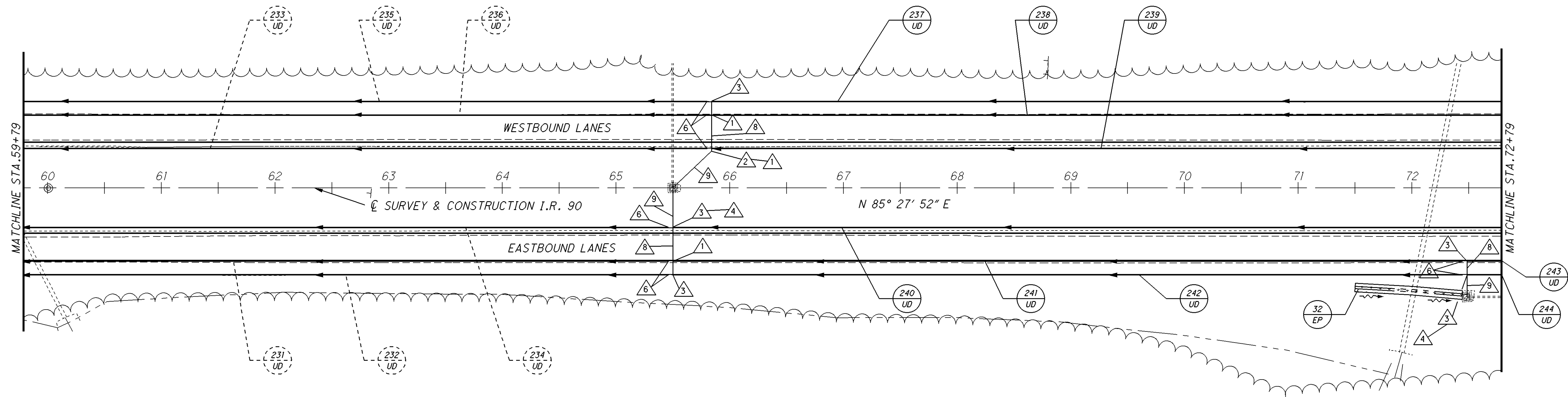




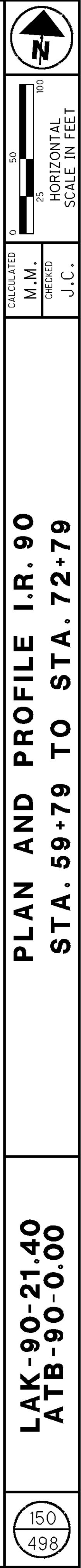
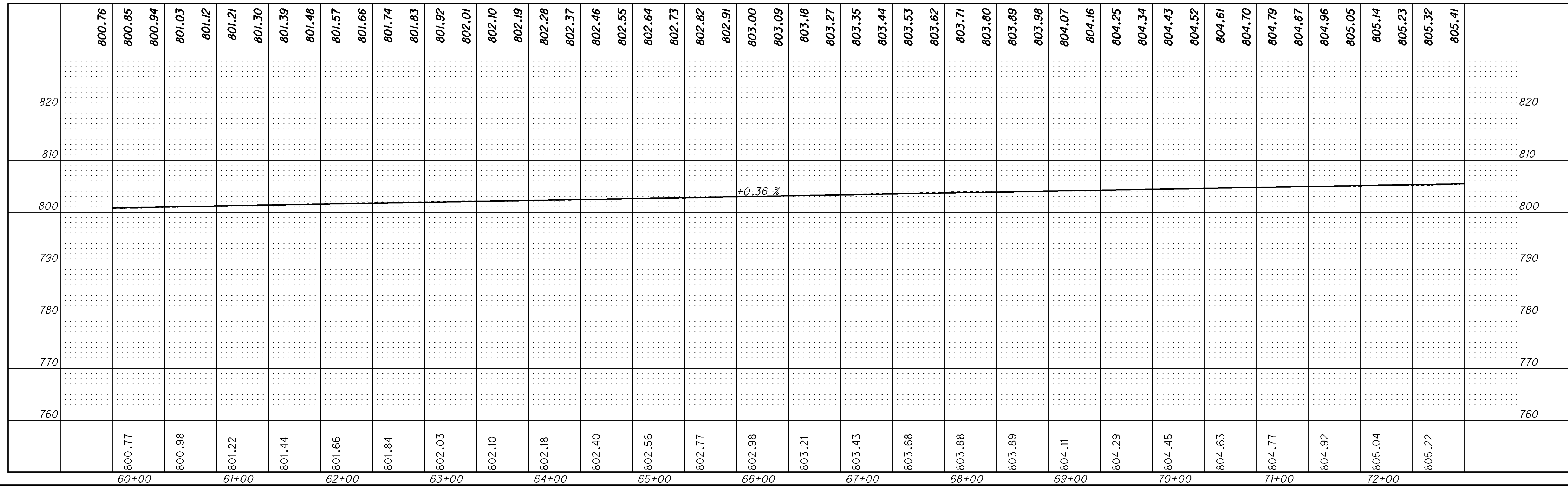
	6" x 6" TEE		6" x 6" CROSS		6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
	6" x 45° BEND		6" CAP		6" CONDUIT, TYPE F
	6" x 90° BEND		PRECAST REINFORCED CONCRETE OUTLET		
	6" x 6" WYE				

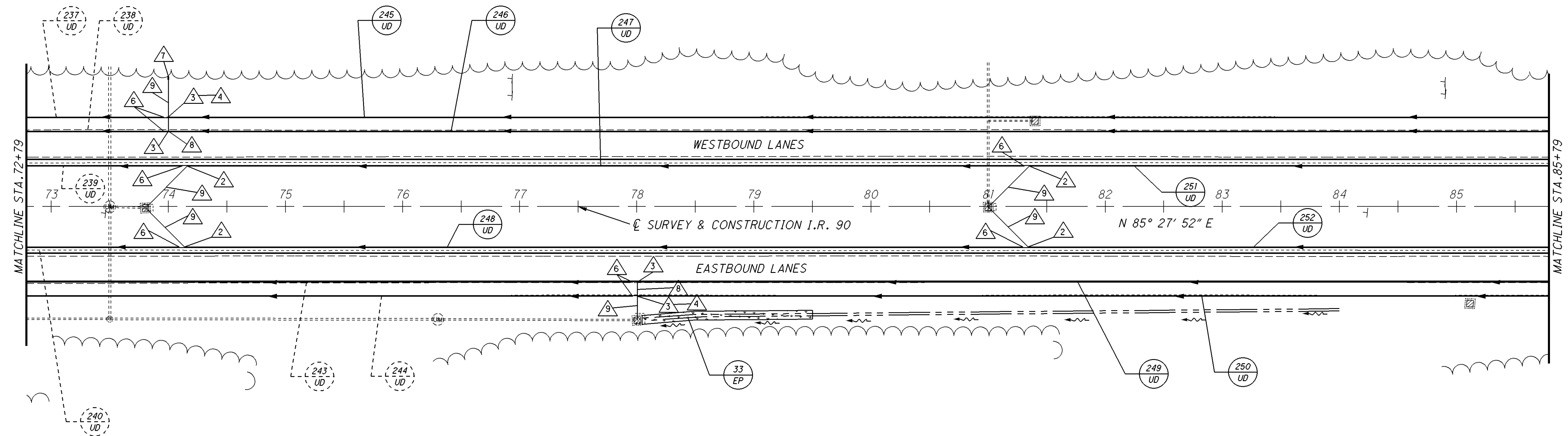
FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.





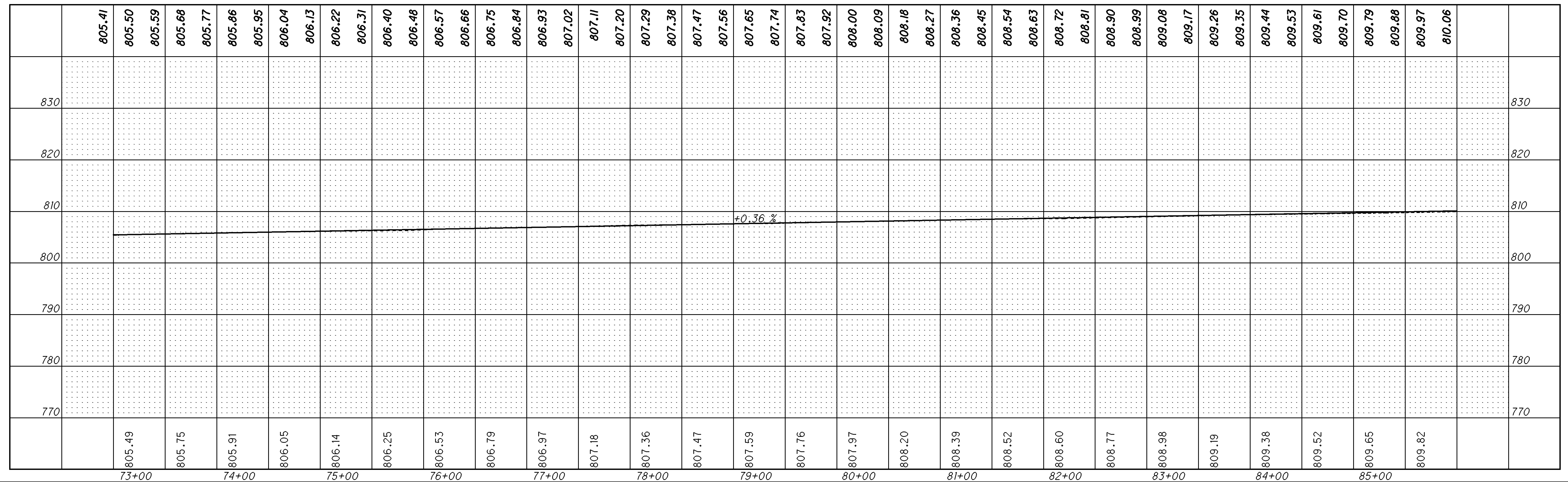
FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.

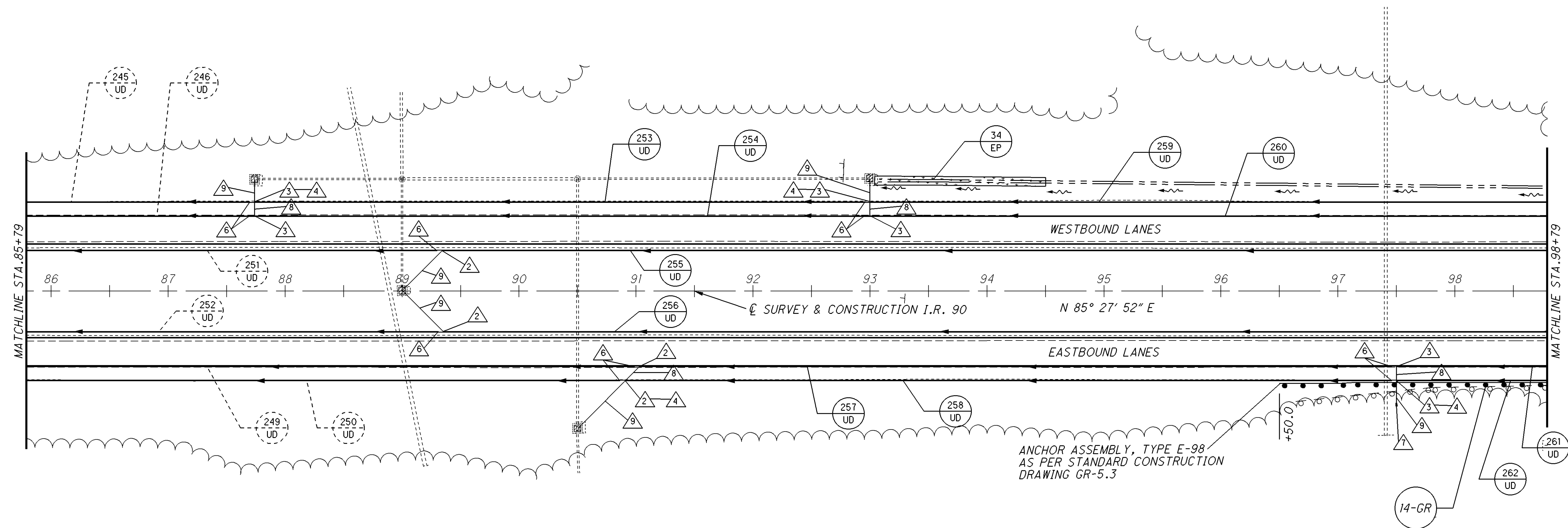


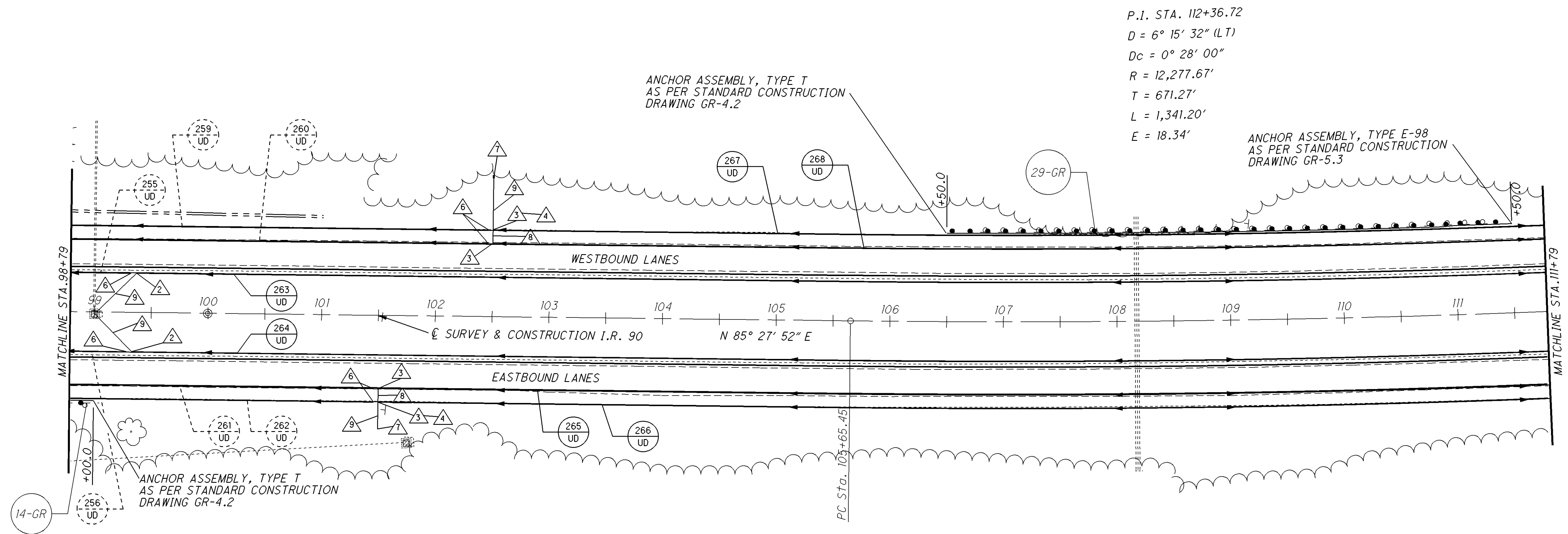


	6" x 6" TEE		6" x 6" CROSS		6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
	6" x 45° BEND		6" CAP		6" CONDUIT, TYPE F
	6" x 90° BEND		PRECAST REINFORCED CONCRETE OUTLET		
	6" x 6" WYE				

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.

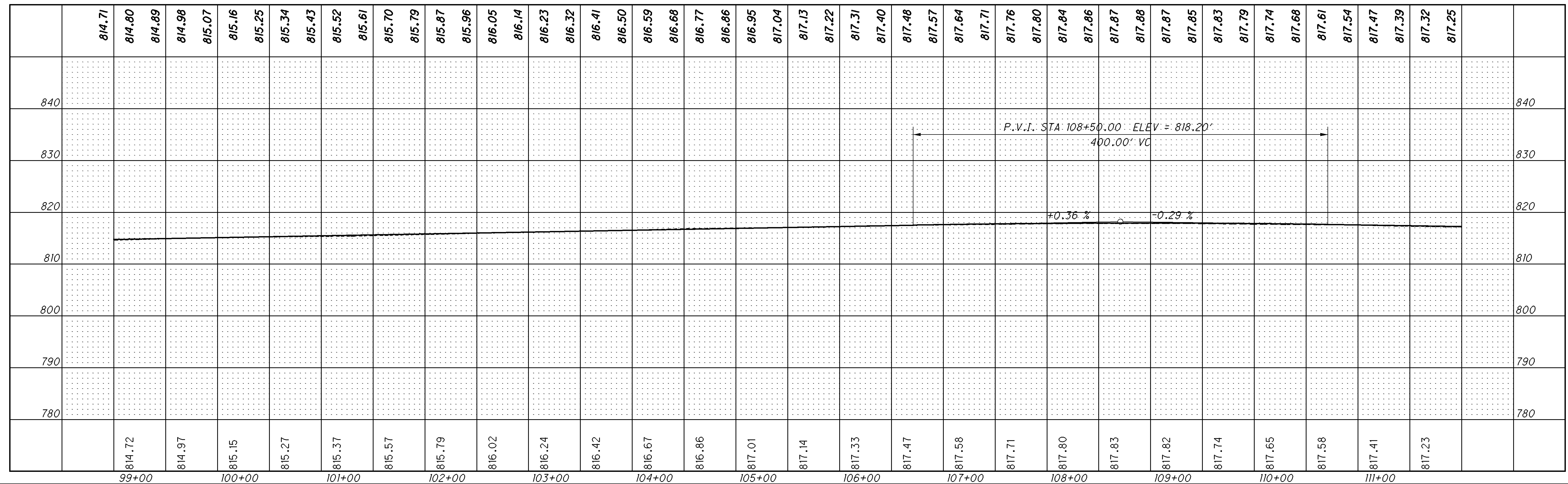


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 6" x 6" TEE	 6" x 6" CROSS	 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
 6" x 45° BEND	 6" CAP	 6" CONDUIT, TYPE F
 6" x 90° BEND	 PRECAST REINFORCED CONCRETE OUTLET	
 6" x 6" WYE		

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.



NOTE:
EXISTING RWIS WEATHER STATION PAVEMENT SENSORS
LOCATED IN THE EASTBOUND AND WESTBOUND LANES OF I.R. 90
WILL BE REPLACED AT THE EXISTING LOCATIONS IN THE PAVEMENT.
FOR DETAILS OF THE RWIS WEATHER STATION PAVEMENT SENSORS,
SEE SHEET 24.

P.I. STA. 112+36.72
 $\Delta = 6^\circ 15' 32''$ (L.T.)
 $DC = 0^\circ 28' 00''$
 $R = 12,277.67'$
 $T = 671.27'$
 $L = 1,341.20'$
 $E = 18.34'$

ITEM 622 CONCRETE BARRIER,
SINGLE SLOPE, TYPE D
AS PER STANDARD CONSTRUCTION
DRAWING RM-4.5

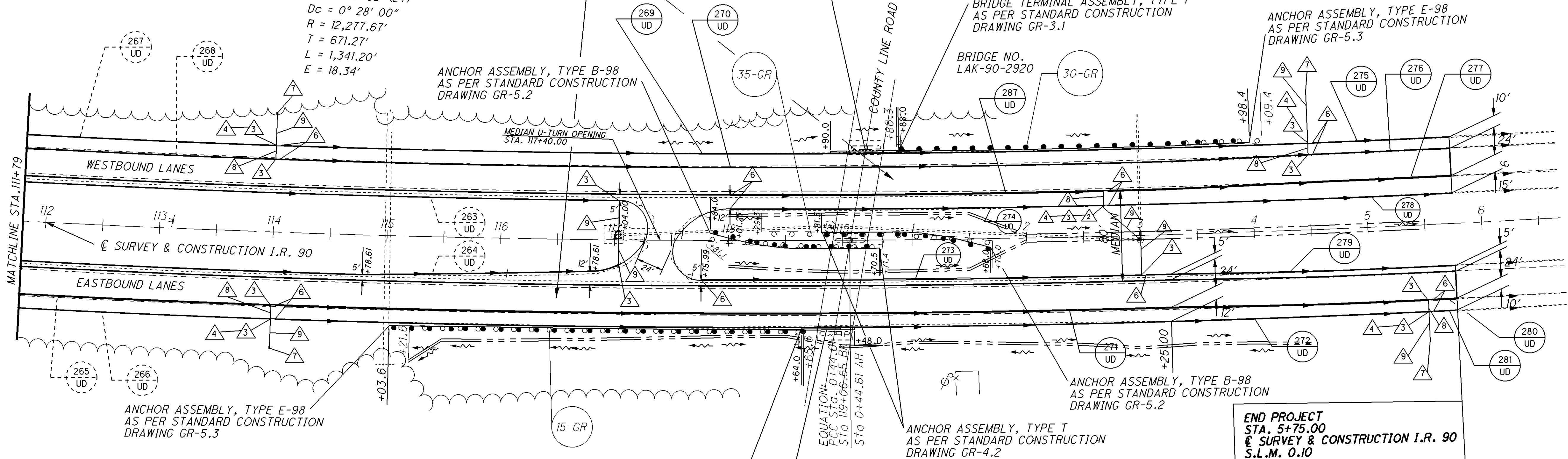
ANCHOR ASSEMBLY, TYPE B-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.2

BRIDGE TERMINAL ASSEMBLY, TYPE I
AS PER STANDARD CONSTRUCTION
DRAWING GR-3.1

ANCHOR ASSEMBLY, TYPE E-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.3

P.I. STA. 11+91.42
 $\Delta = 10^\circ 40' 21''$ (L.T.)
 $DC = 0^\circ 28' 00''$
 $R = 12,277.67'$
 $T = 1,146.81'$
 $L = 2,286.99'$
 $E = 53.44'$

FOR GUARDRAIL QUANTITIES SEE SHEET 66.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 67-72.
FOR PAVEMENT QUANTITIES SEE SHEETS 73-83.
FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 490-492.
FOR LIGHTING QUANTITIES SEE SHEETS 497-498.



1 6" x 6" TEE	5 6" x 6" CROSS	8 6" CONDUIT, TYPE B, 707.33, 707.41, 707.42 OR 707.45
2 6" x 45° BEND	6 6" CAP	9 6" CONDUIT, TYPE F
3 6" x 90° BEND	7 PRECAST REINFORCED CONCRETE OUTLET	
4 6" x 6" WYE		

BRIDGE TERMINAL ASSEMBLY, TYPE I
AS PER STANDARD CONSTRUCTION
DRAWING GR-3.1

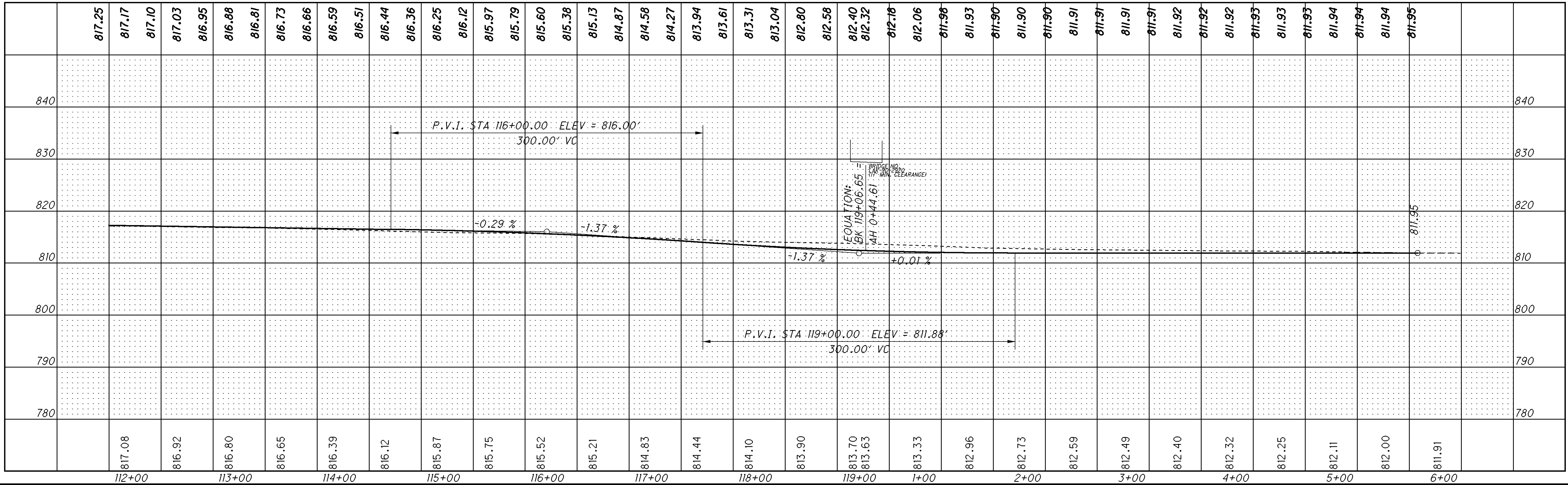
ITEM 622 CONCRETE BARRIER,
SINGLE SLOPE, TYPE D
AS PER STANDARD CONSTRUCTION
DRAWING RM-4.5

ANCHOR ASSEMBLY, TYPE B-98
AS PER STANDARD CONSTRUCTION
DRAWING GR-5.2

END PROJECT
STA. 5+75.00
S.L.M. 0.10

FED. NO. E080604

279 UD 280 UD 281 UD
CONNECT PROPOSED UNDERDRAINS TO
EXISTING UNDERDRAINS AT STA. 5+75.00±



PLAN AND PROFILE I.R. 90
STA. 111+79 TO STA. 6+16

LAK-90-21.40
ATB-90-0.00

154
498

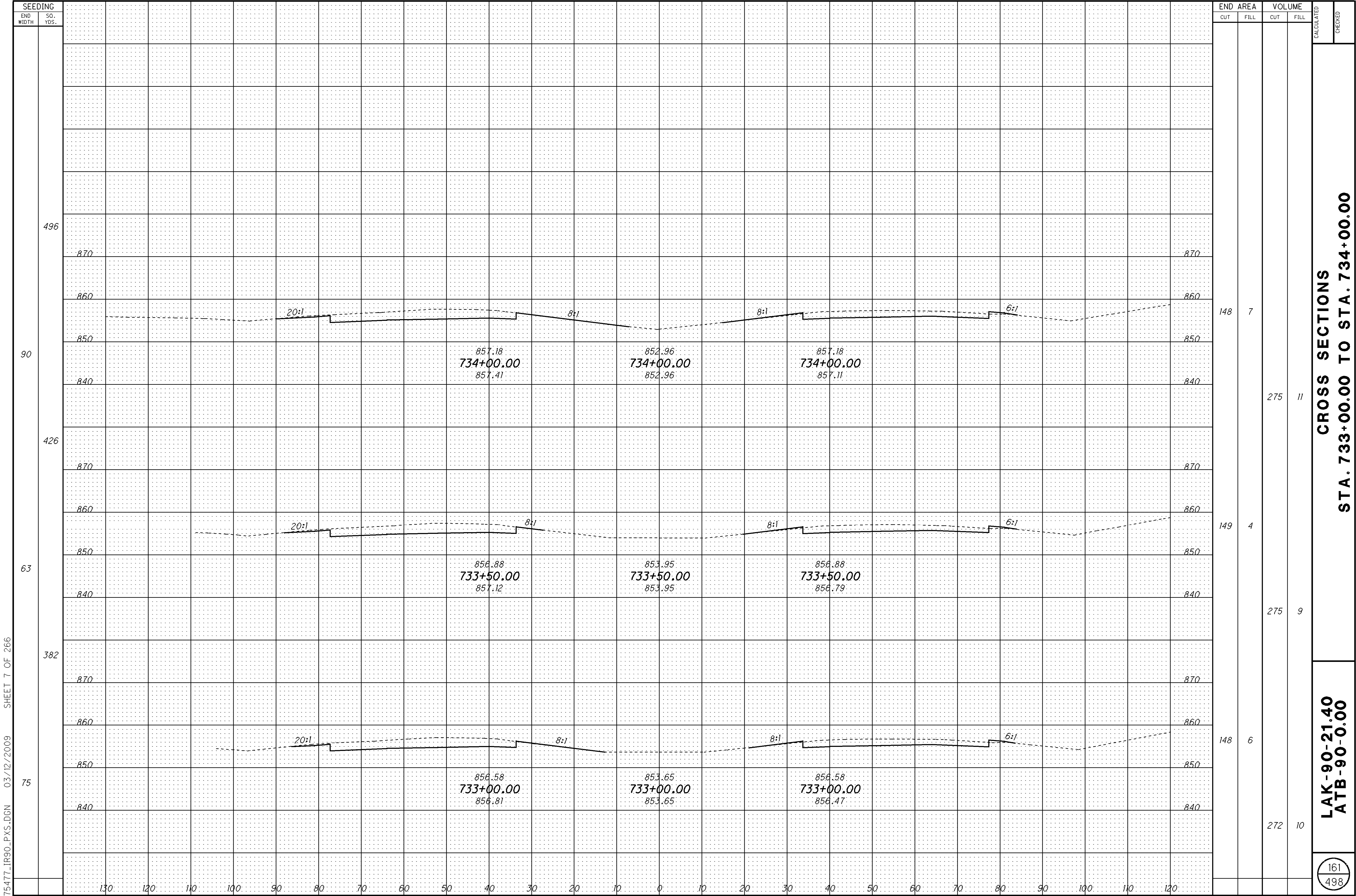


SEEDING																														END AREA		VOLUME		CALCULATED	CHECKED				
END WIDTH	SO. YDS.																													CUT	FILL	CUT	FILL						
50	267	870																													870	150	1	277	2	STA. 725+50.00 TO STA. 726+50.00	CROSS SECTIONS	LAK-90-21.40 ATB-90-0.00	156 498
		860																													860								
		850																													850								
		840																													840								
		830																													830								
		820																													820								
	286	870																													870	149	1						
		860																													860								
		850																													850								
		840																													840								
		830																													830								
		820																													820								
53	870																													870	149	1							
	860																													860									
	850																													850									
	840																													840									
	830																													830									
	820																													820									
285	870																													870	149	1							
	860																													860									
	850																													850									
	840																													840									
	830																													830									
	820																													820									
50	870																													870	149	1							
	860																													860									
	850																													850									
	840																													840									
	830																													830									
	820																													820									
		130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120												

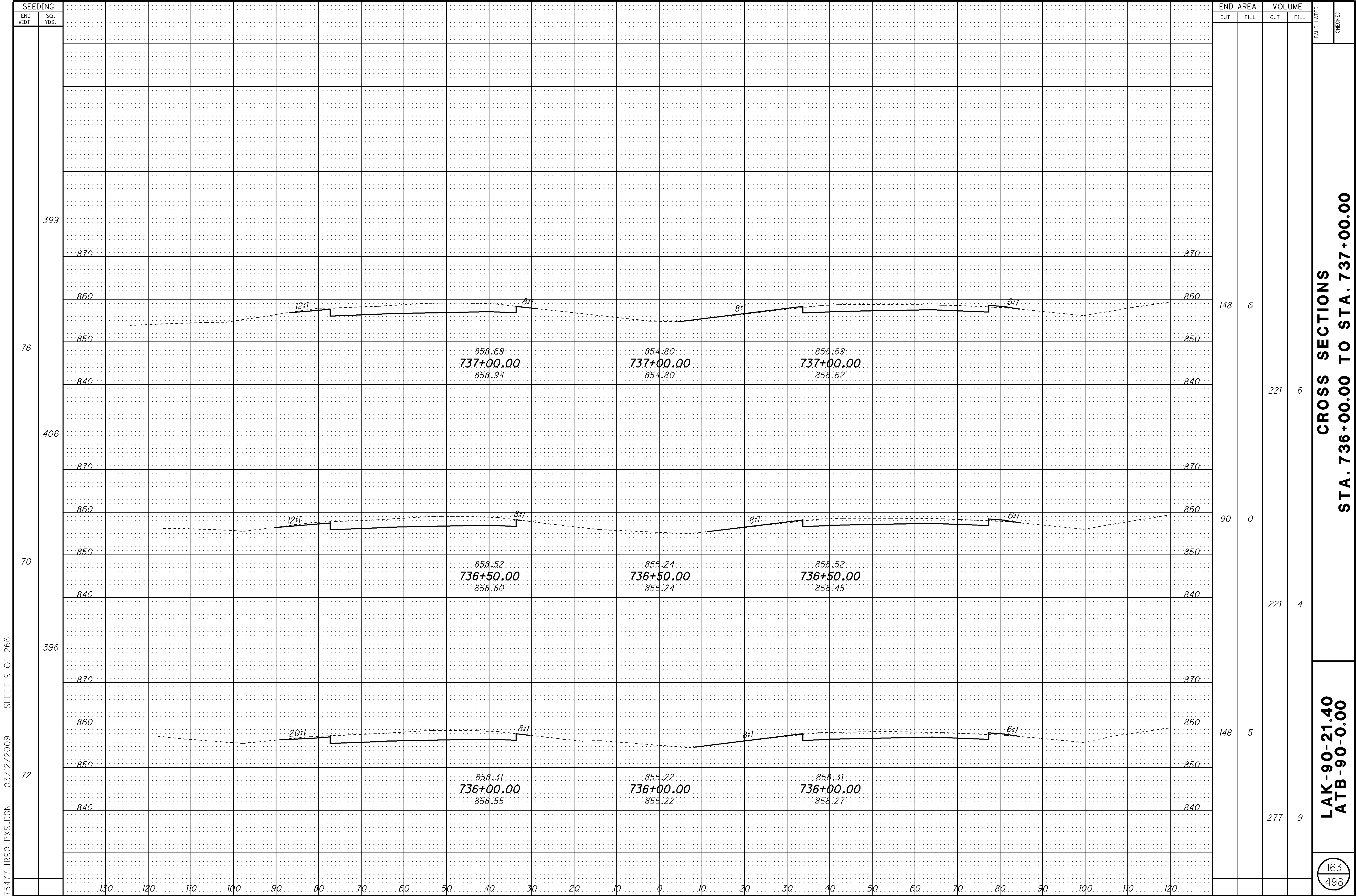
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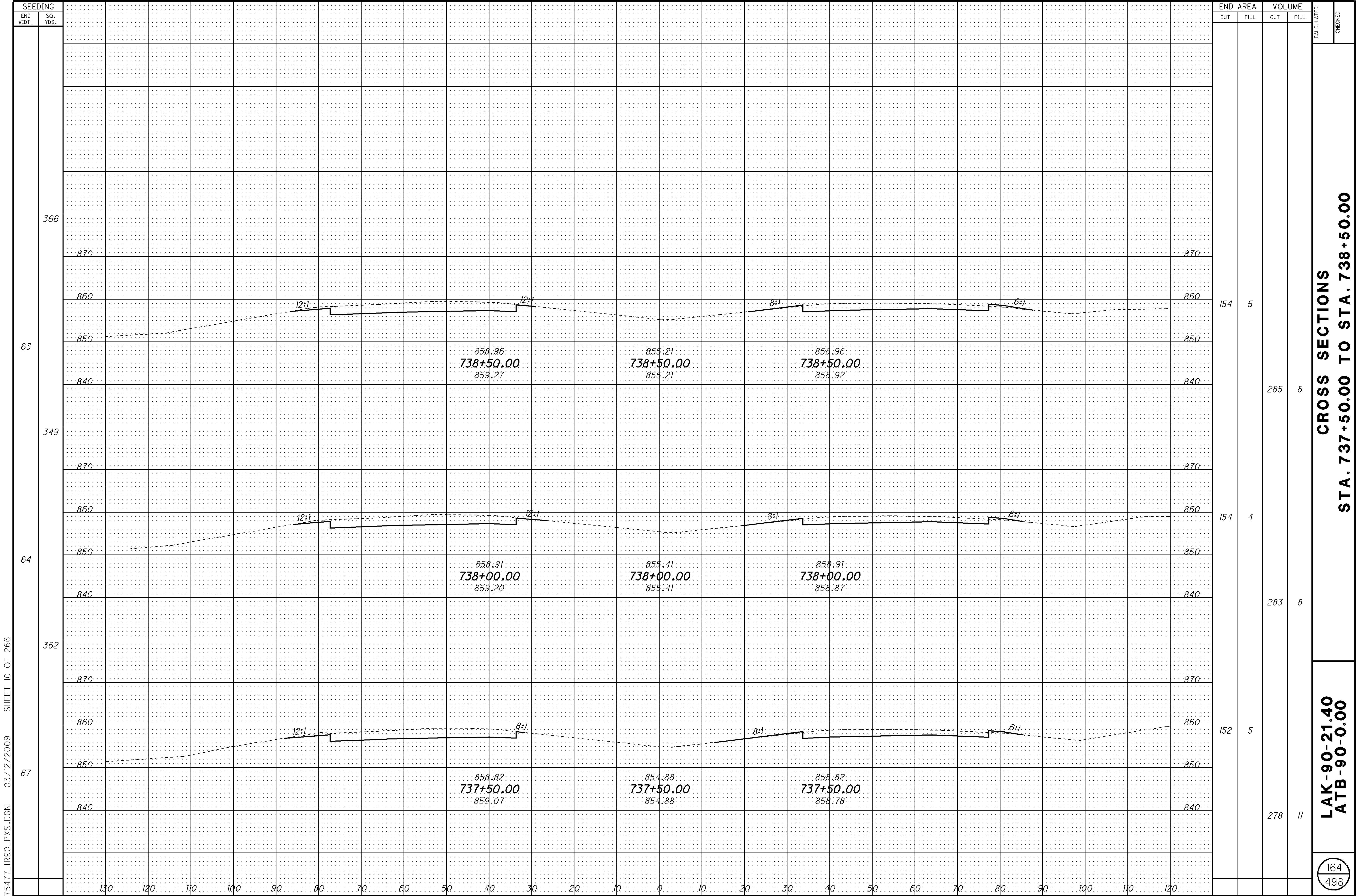
SEEDING																										END AREA		VOLUME		CALCULATED	CHECKED	
END WIDTH	SO. YDS.																									CUT	FILL	CUT	FILL			
57	324																									153	4	283	11	CROSS SECTIONS STA. 728+50.00 TO STA. 729+50.00	LAK-90-21.40 ATB-90-0.00	158 498
																									153	8	285	13				
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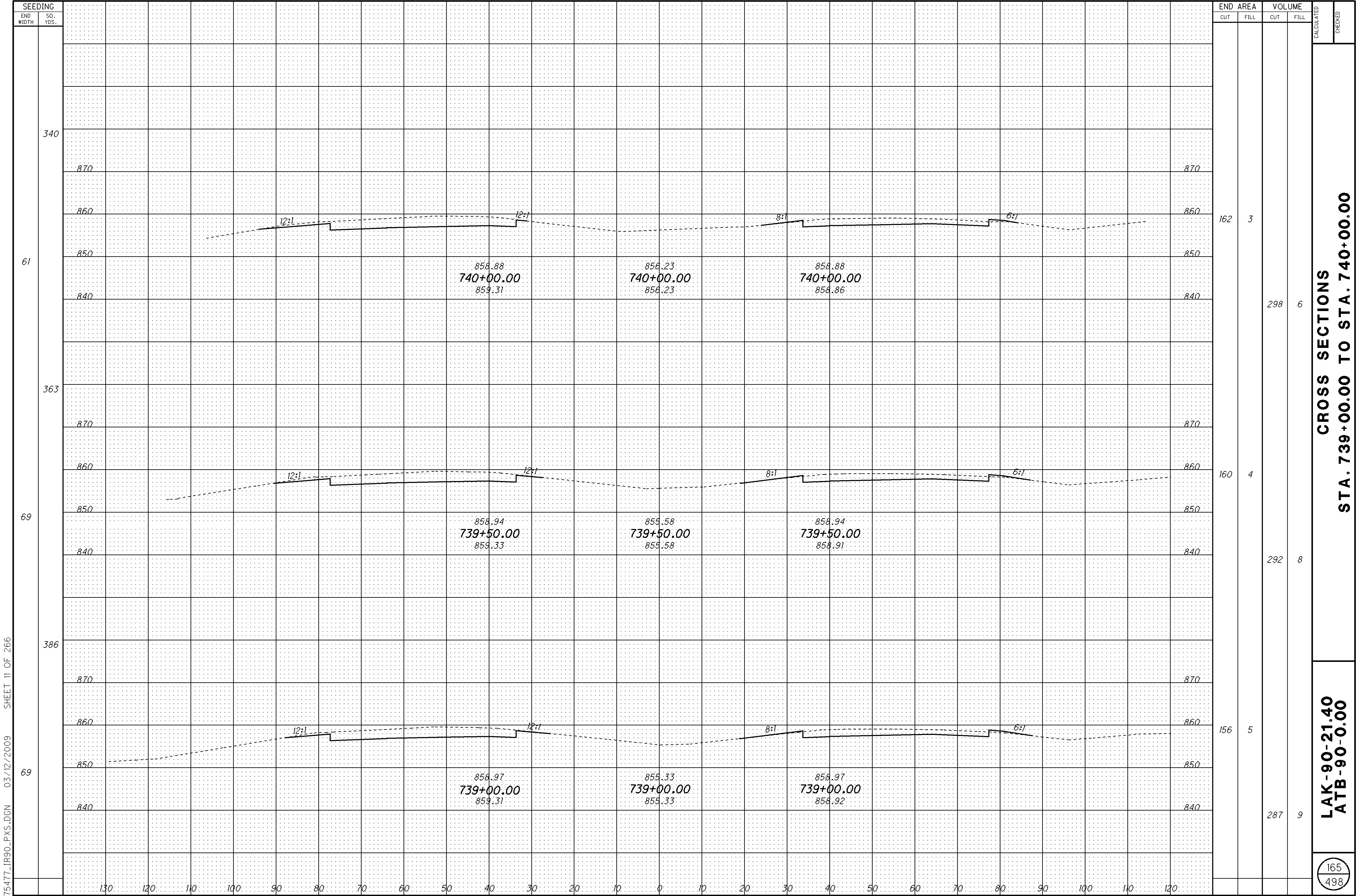
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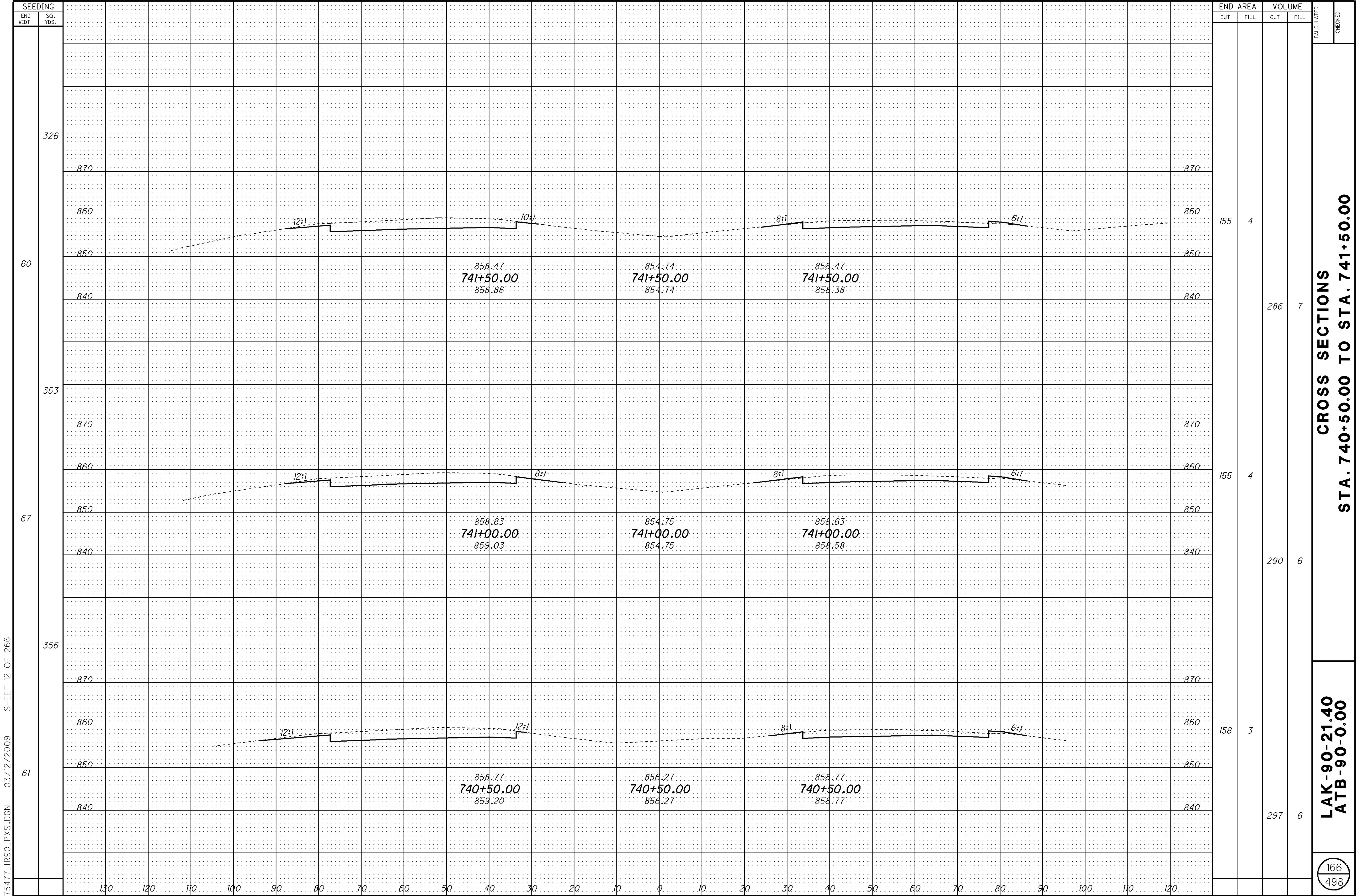


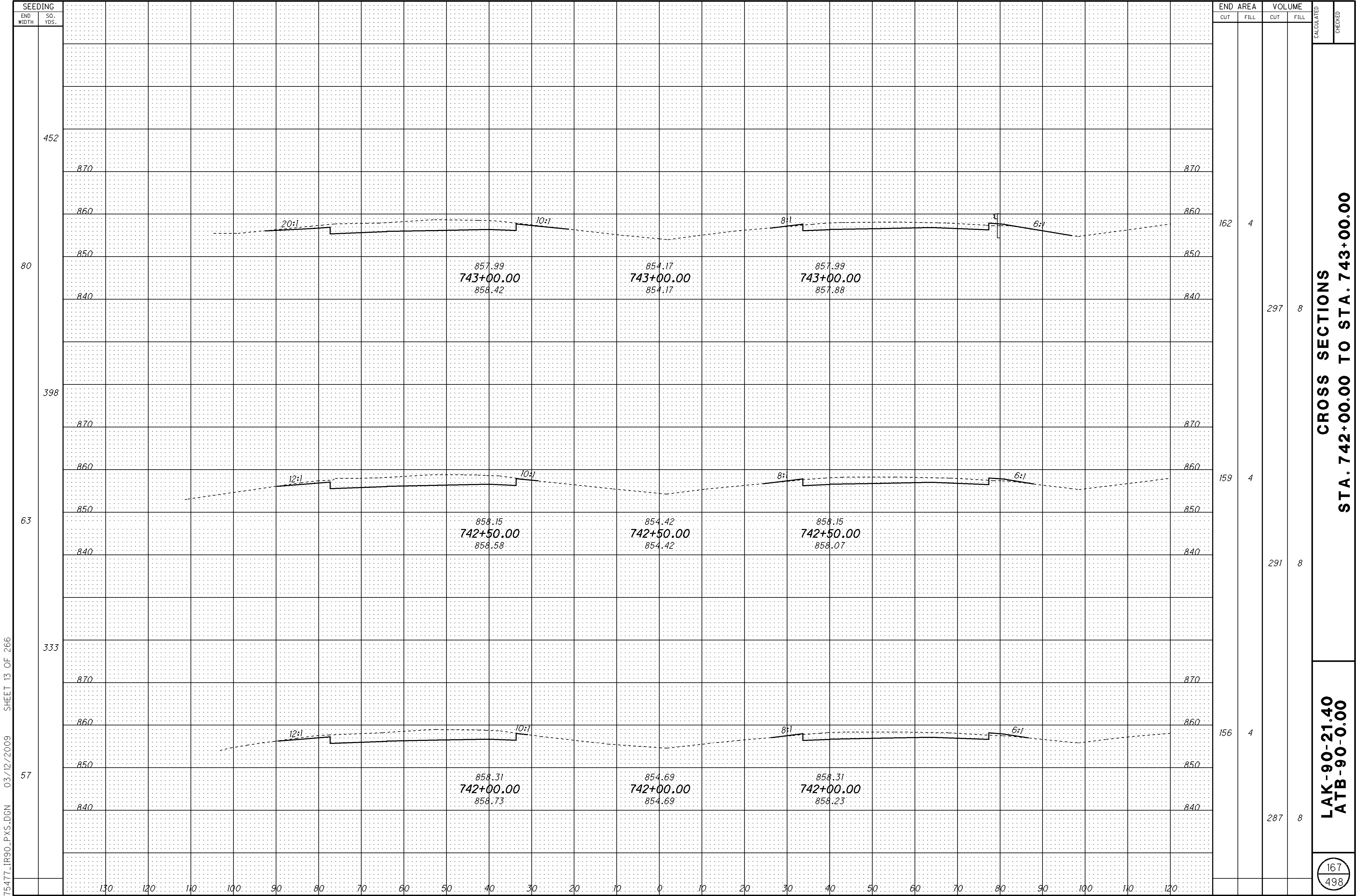
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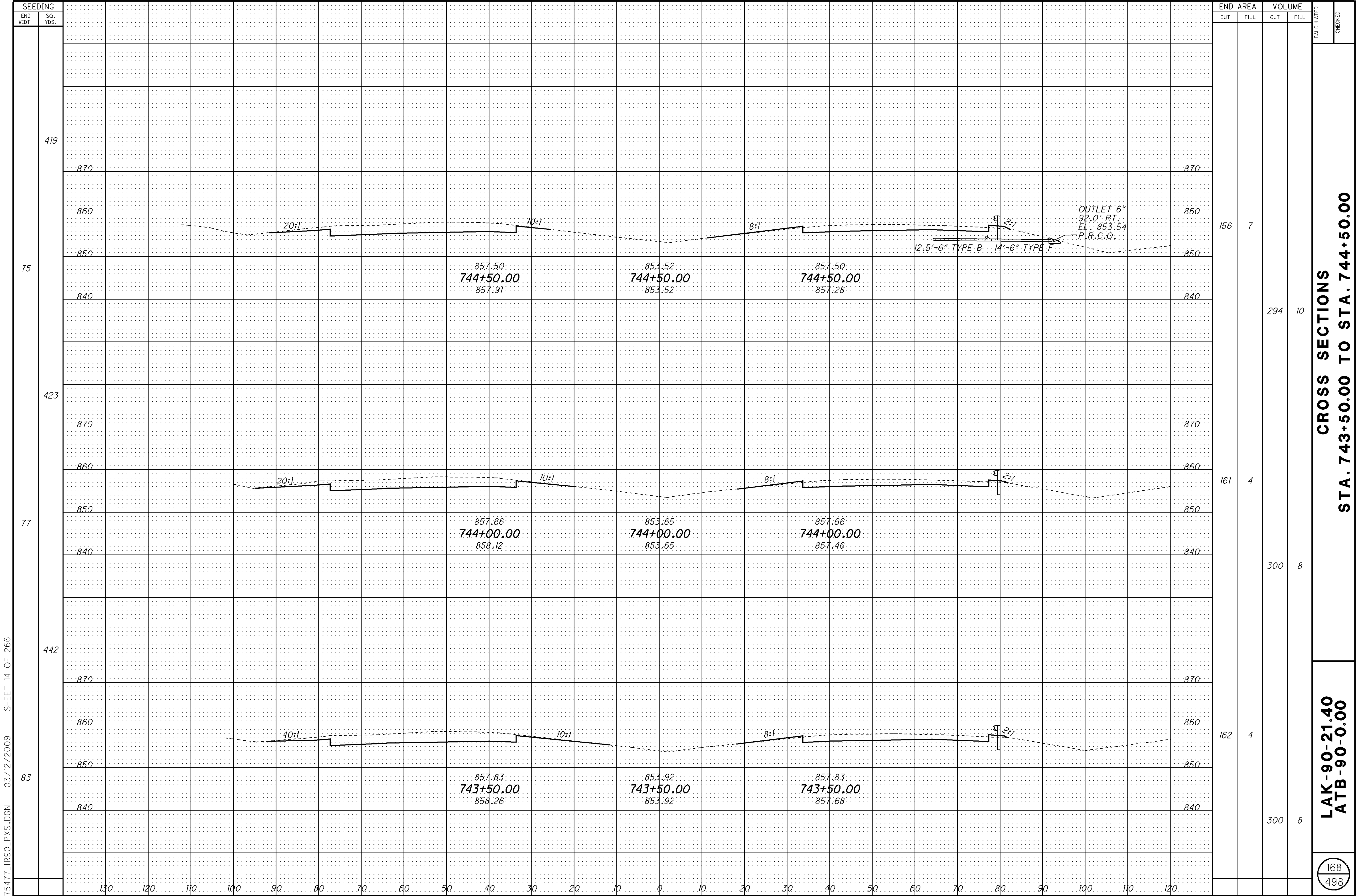


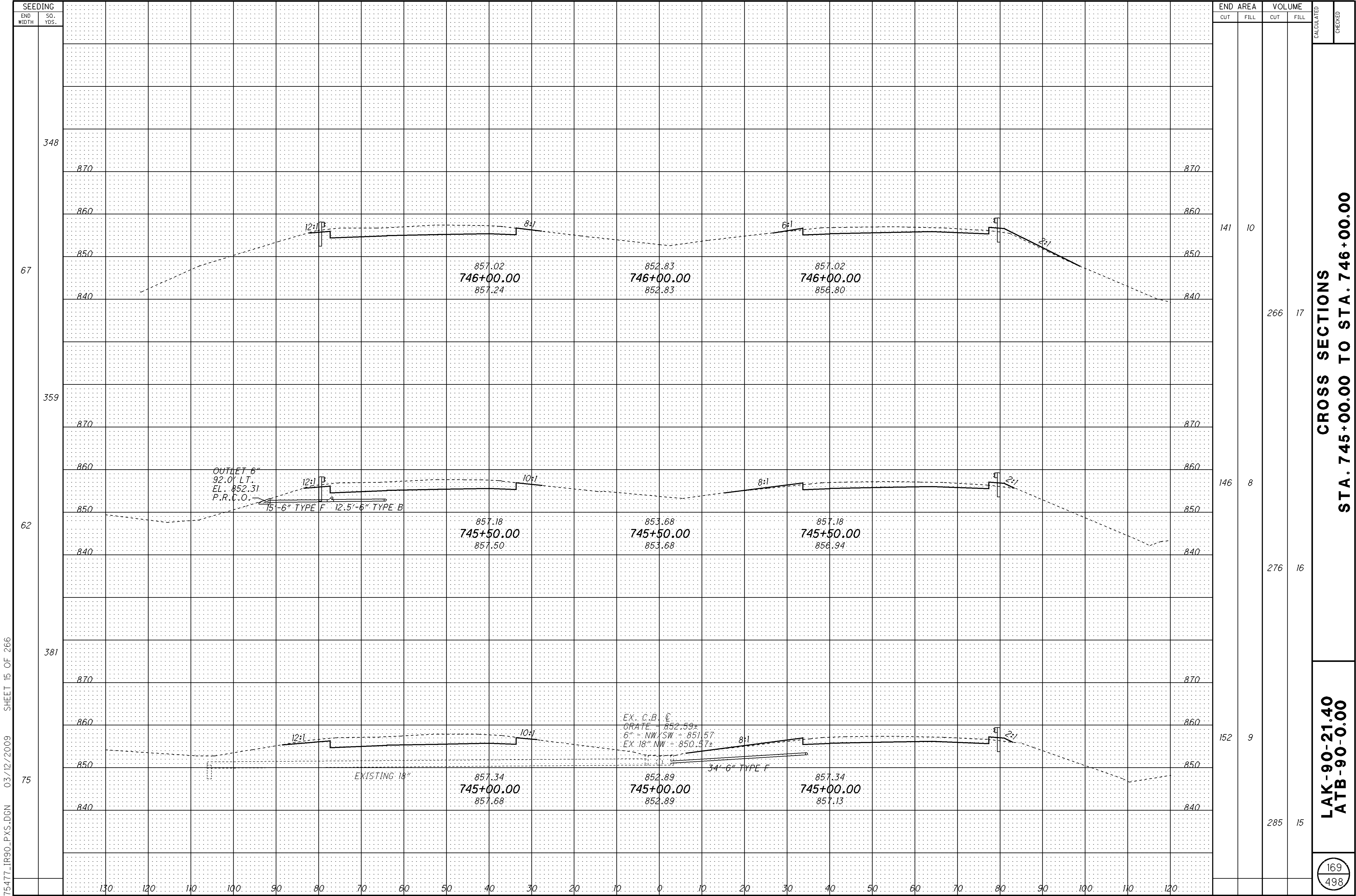


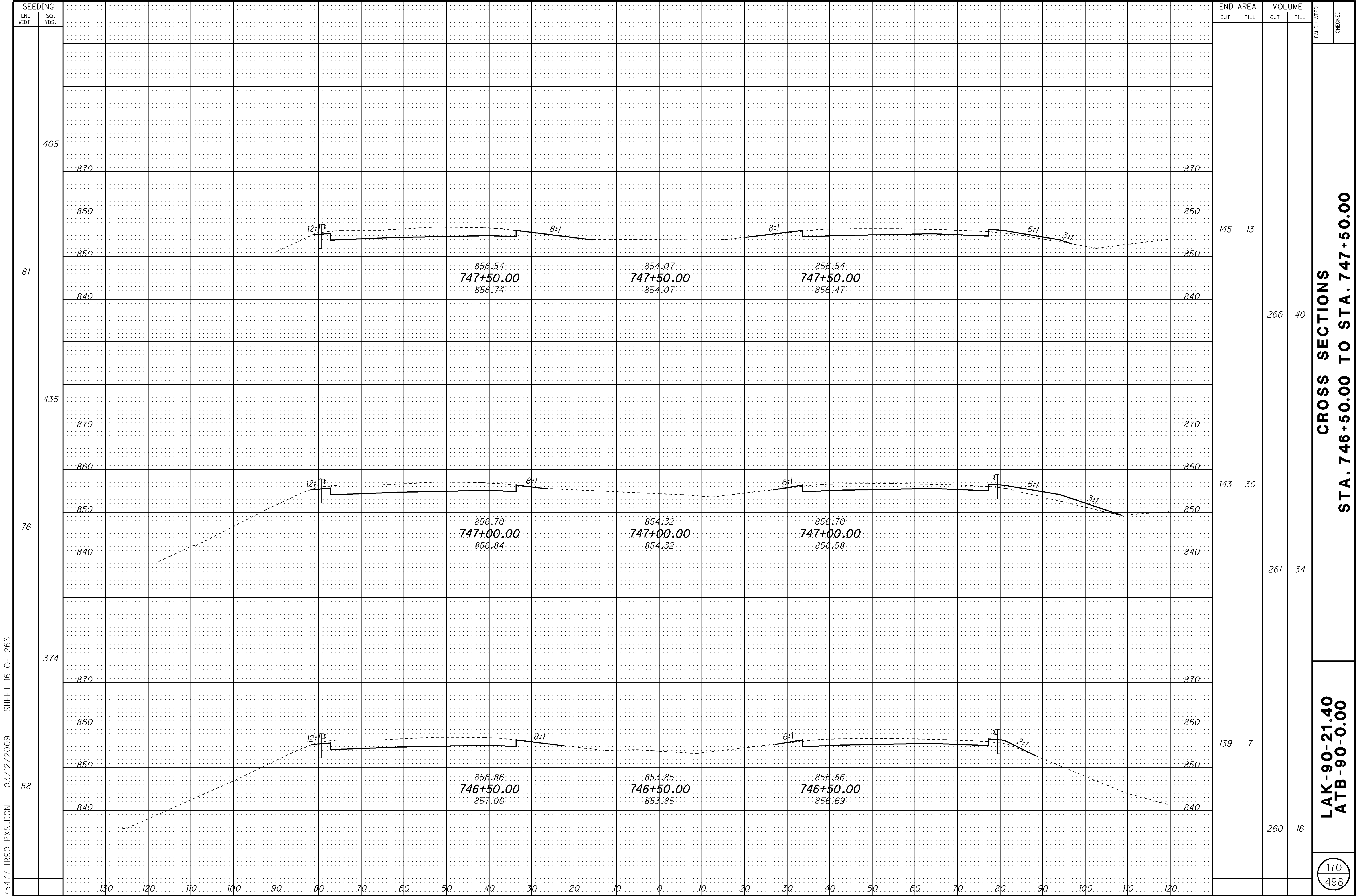


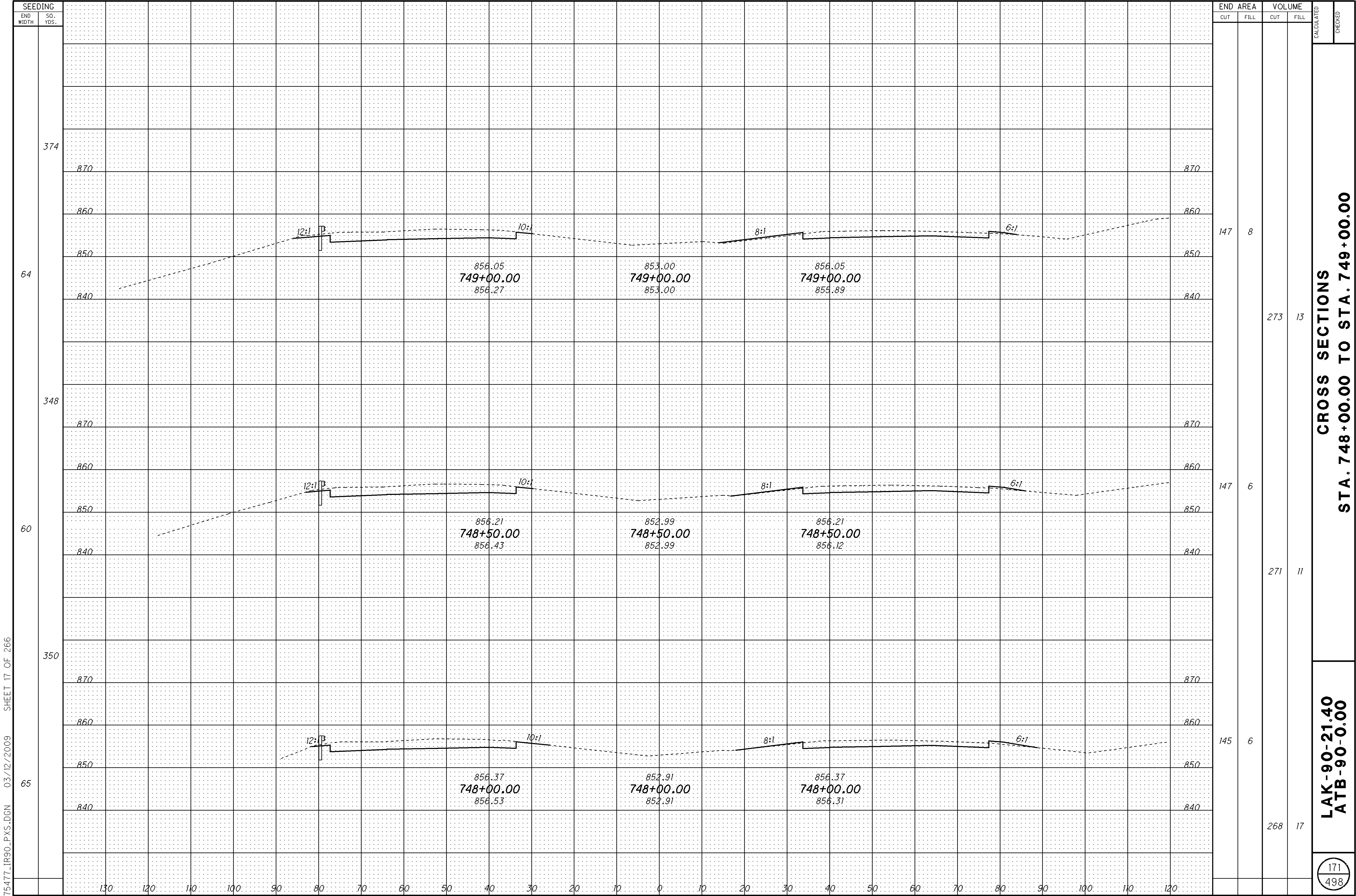


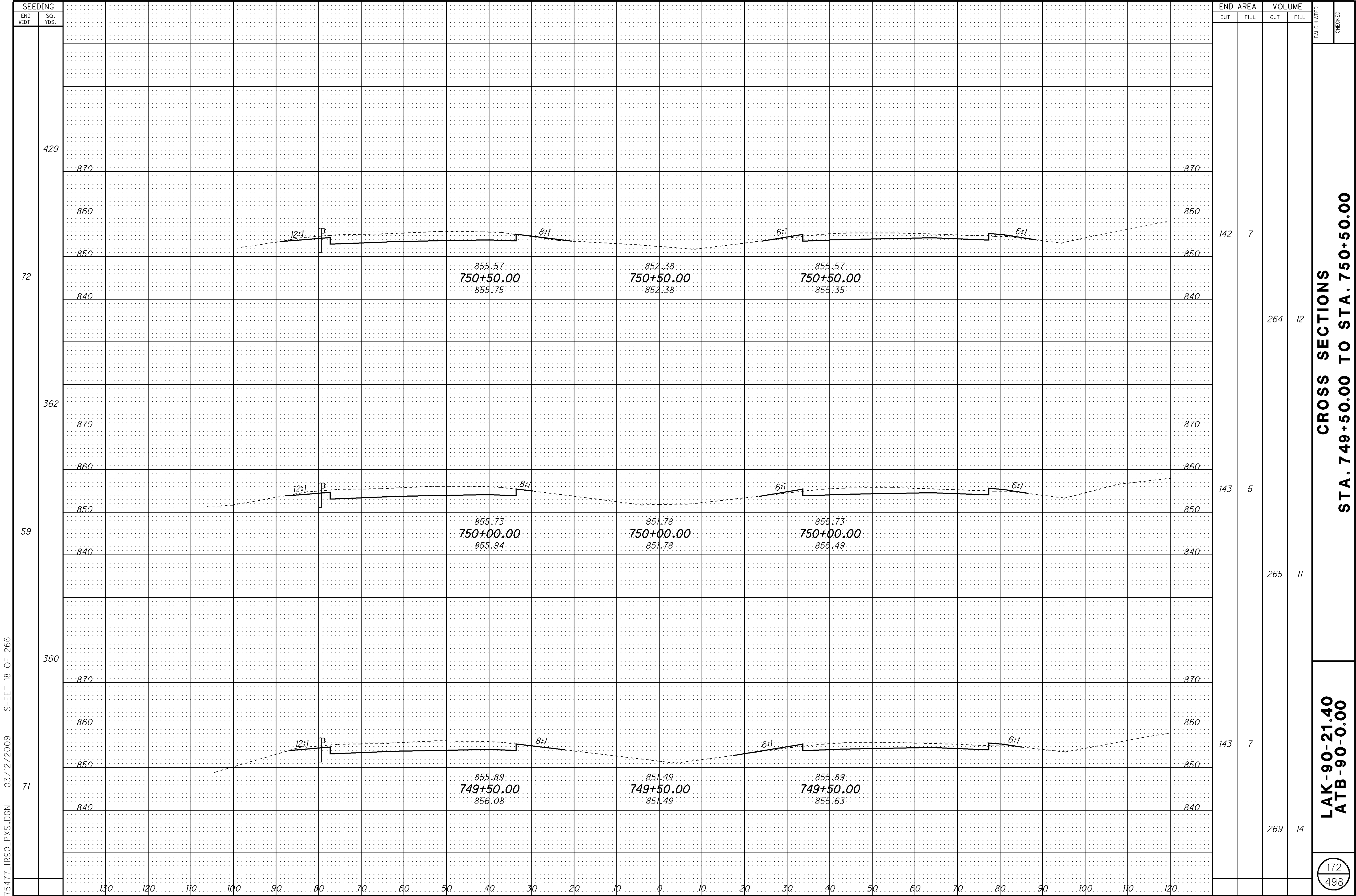


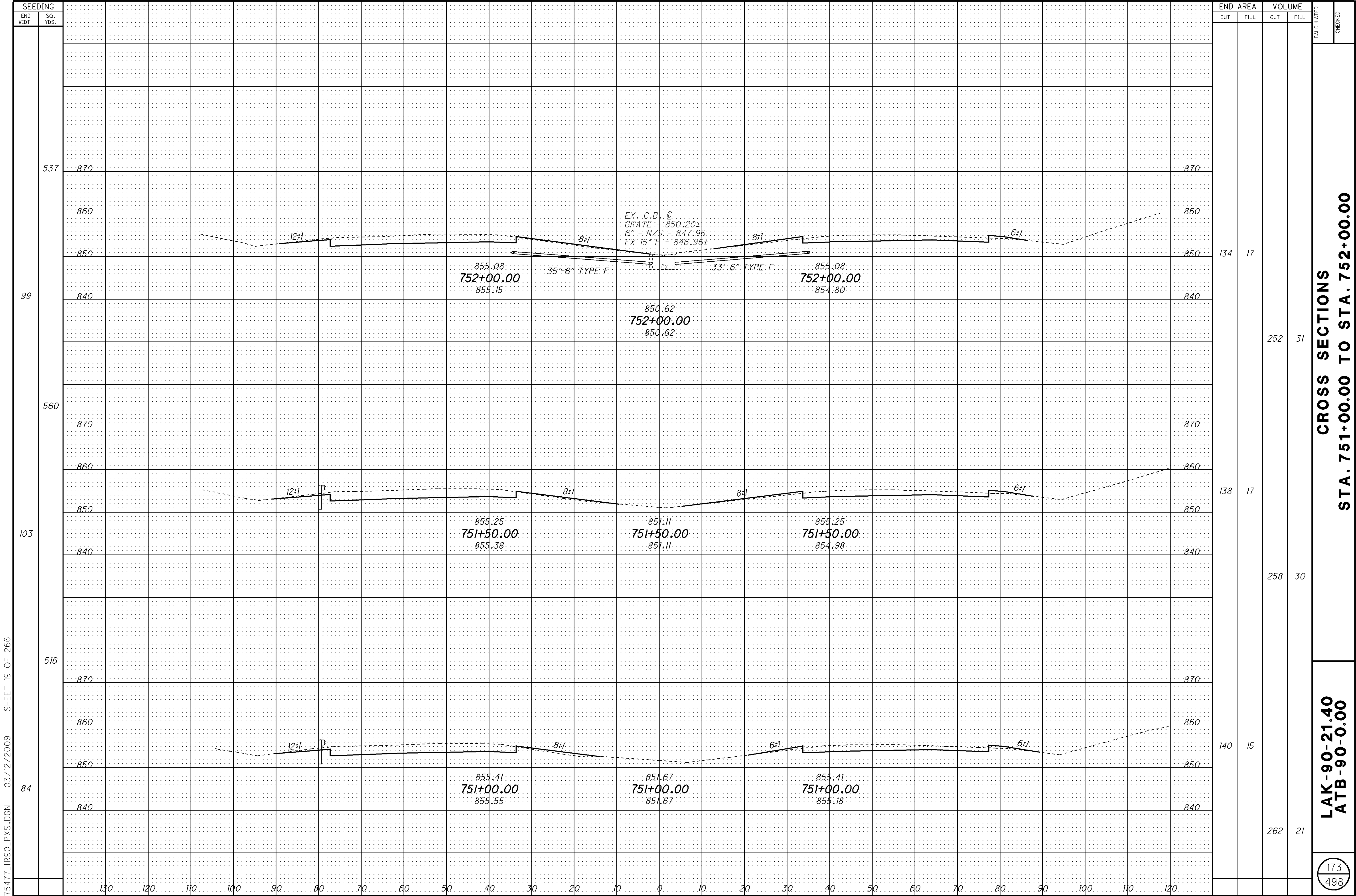


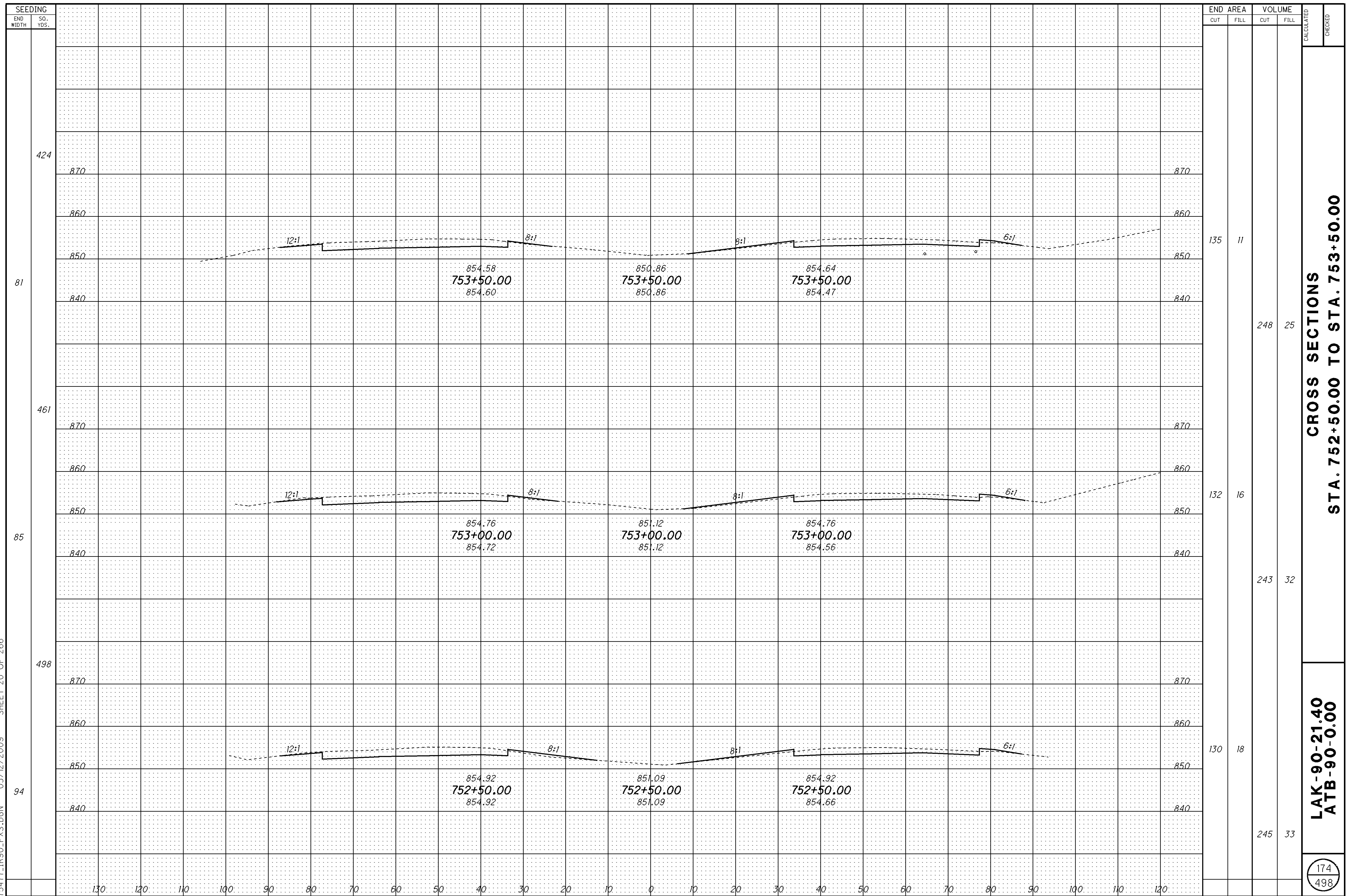




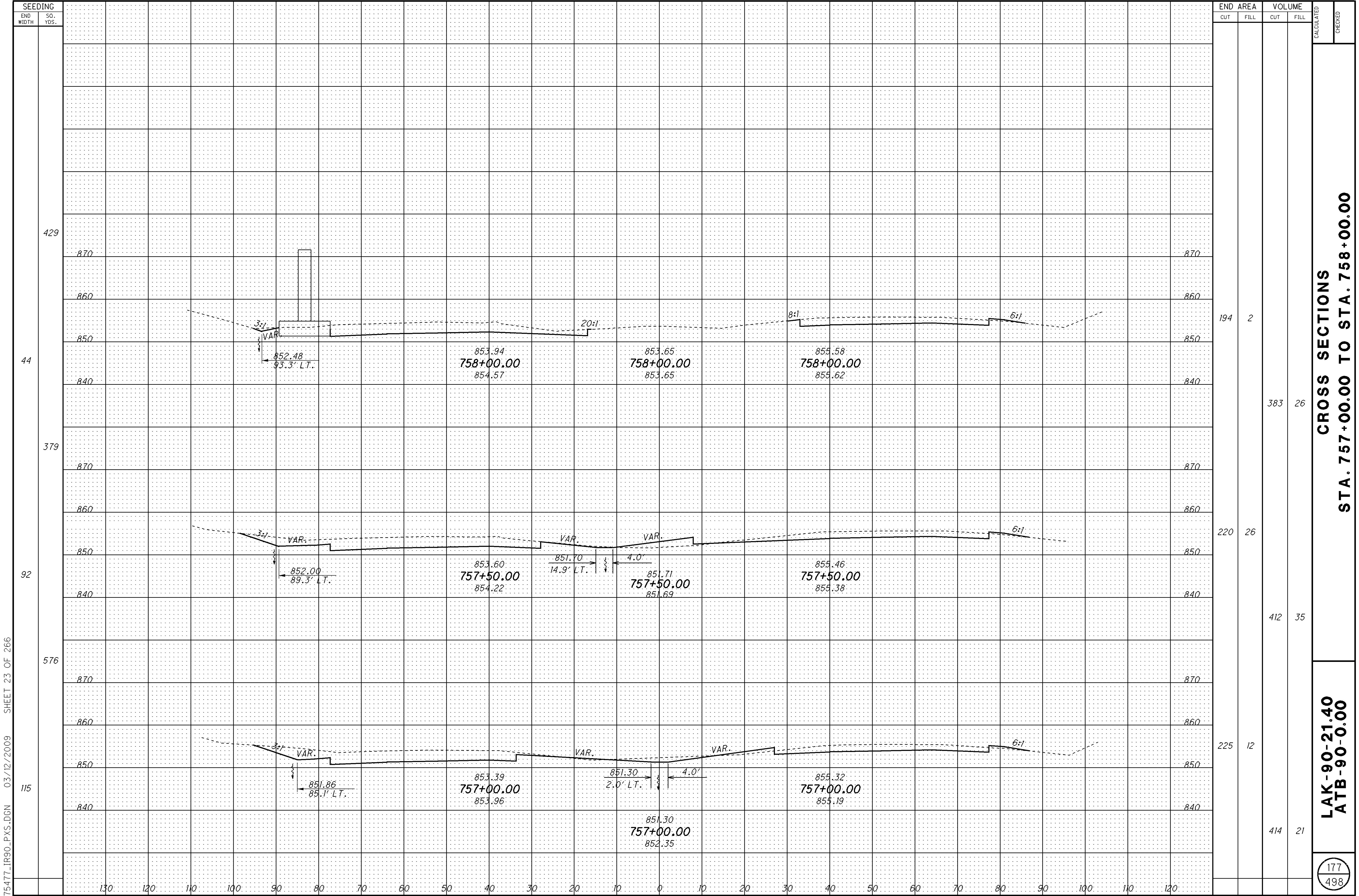


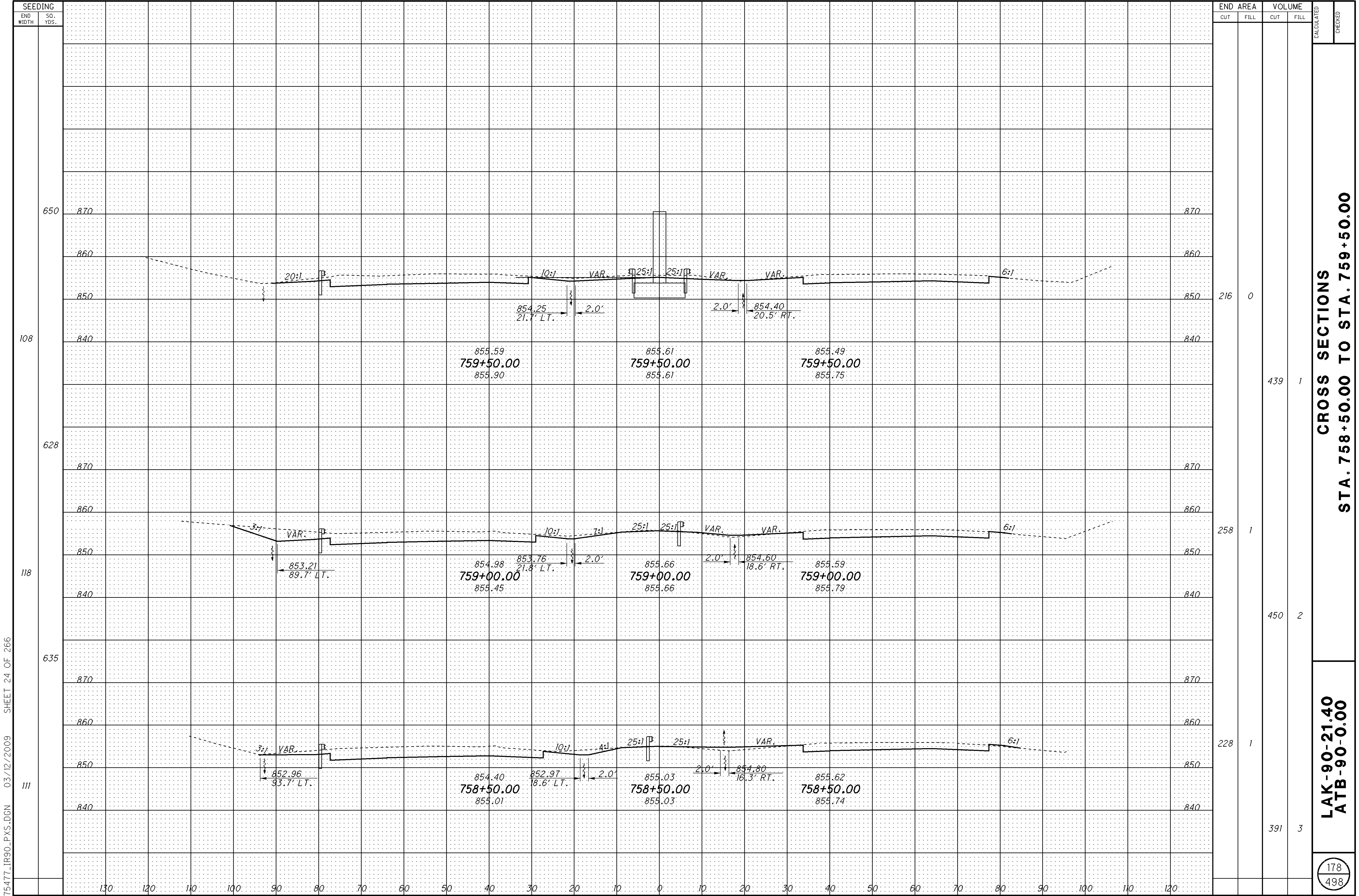






SEEDING																						END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.																					CUT	FILL	CUT	FILL		
419	76																					163	8	294	17	175	498
416	74																					154	10	274	15	175	498
403	72																					141	7	256	17	175	498
		130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120

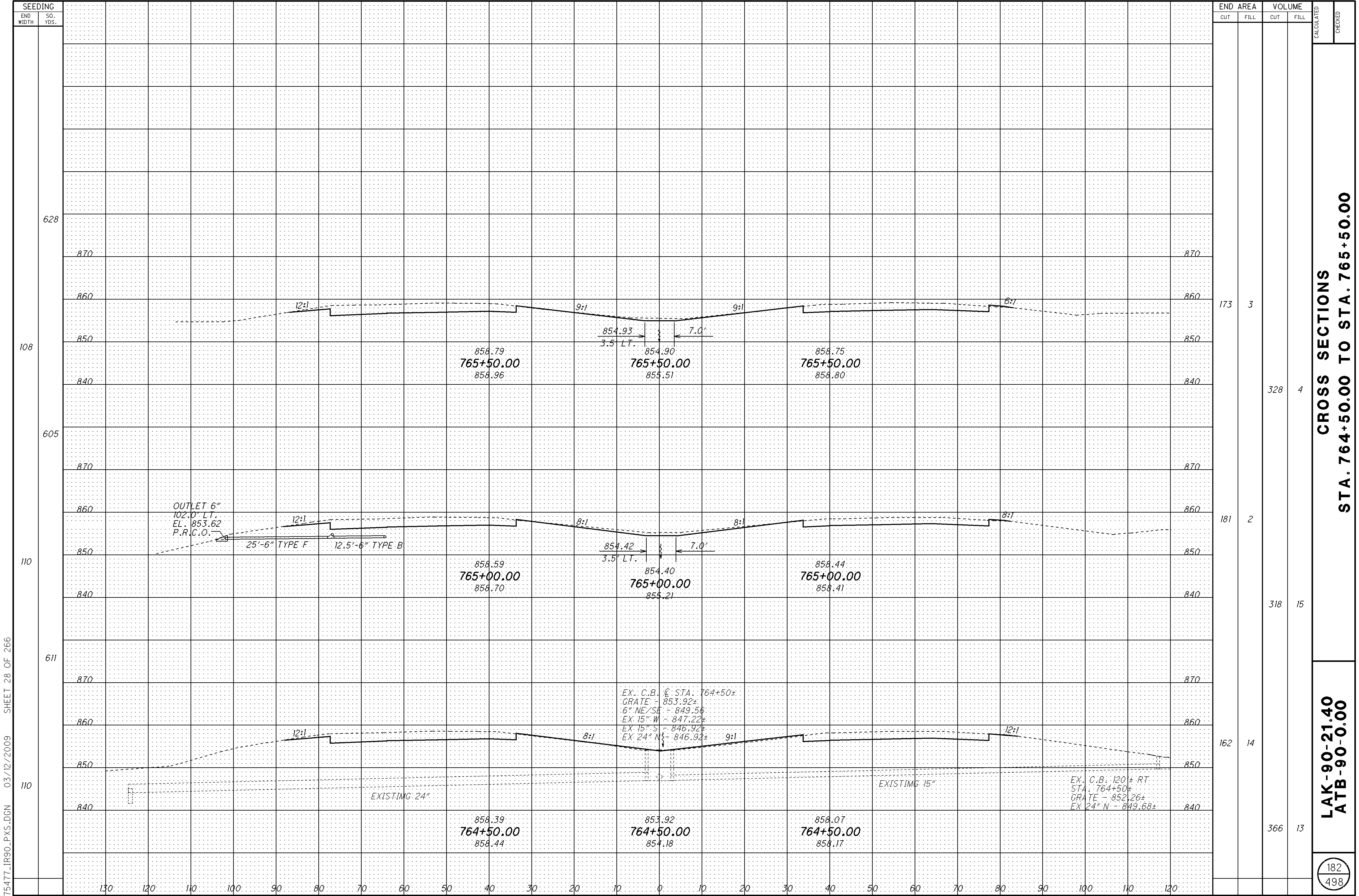


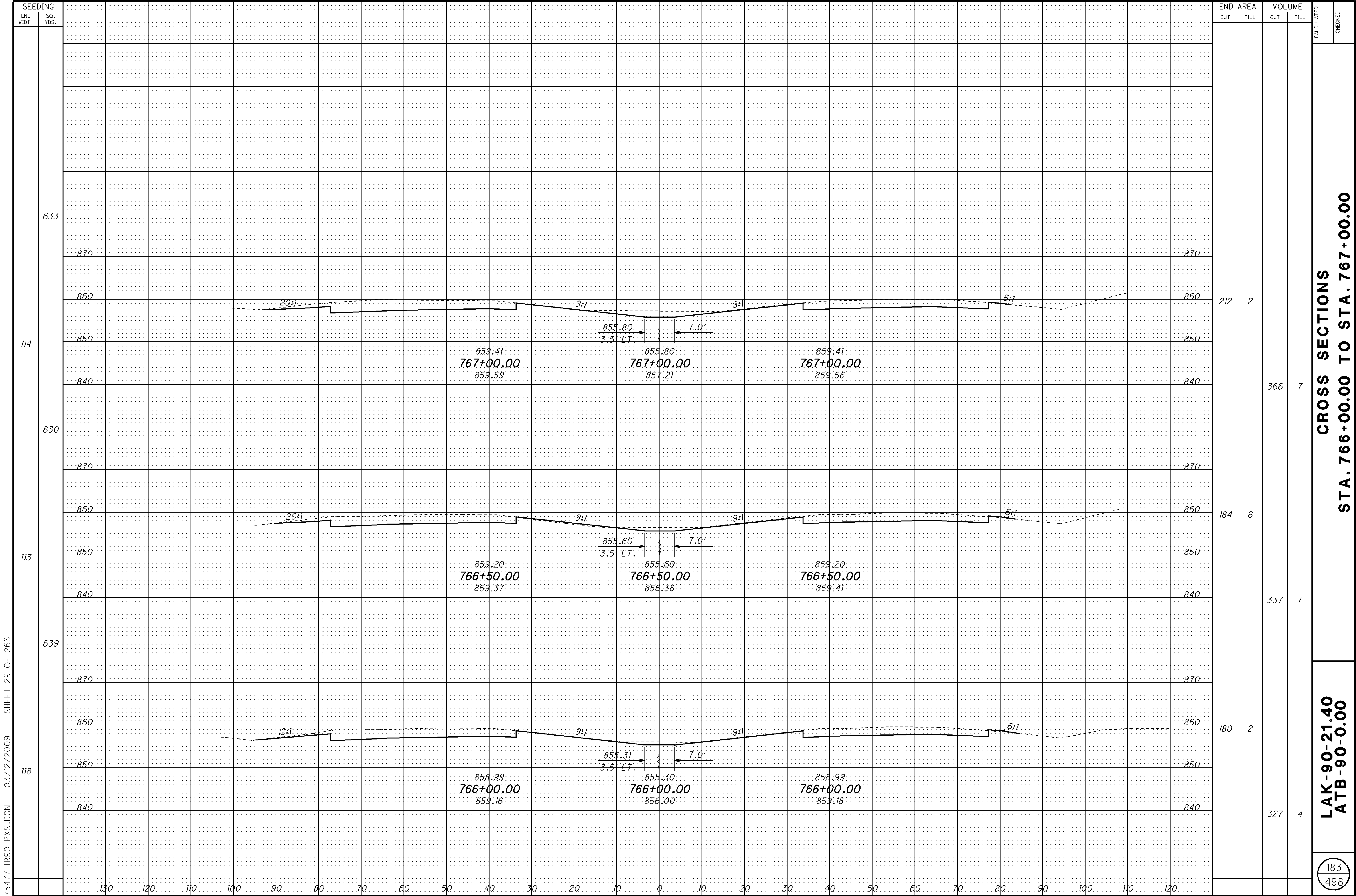


179
498

$$\frac{180}{498}$$

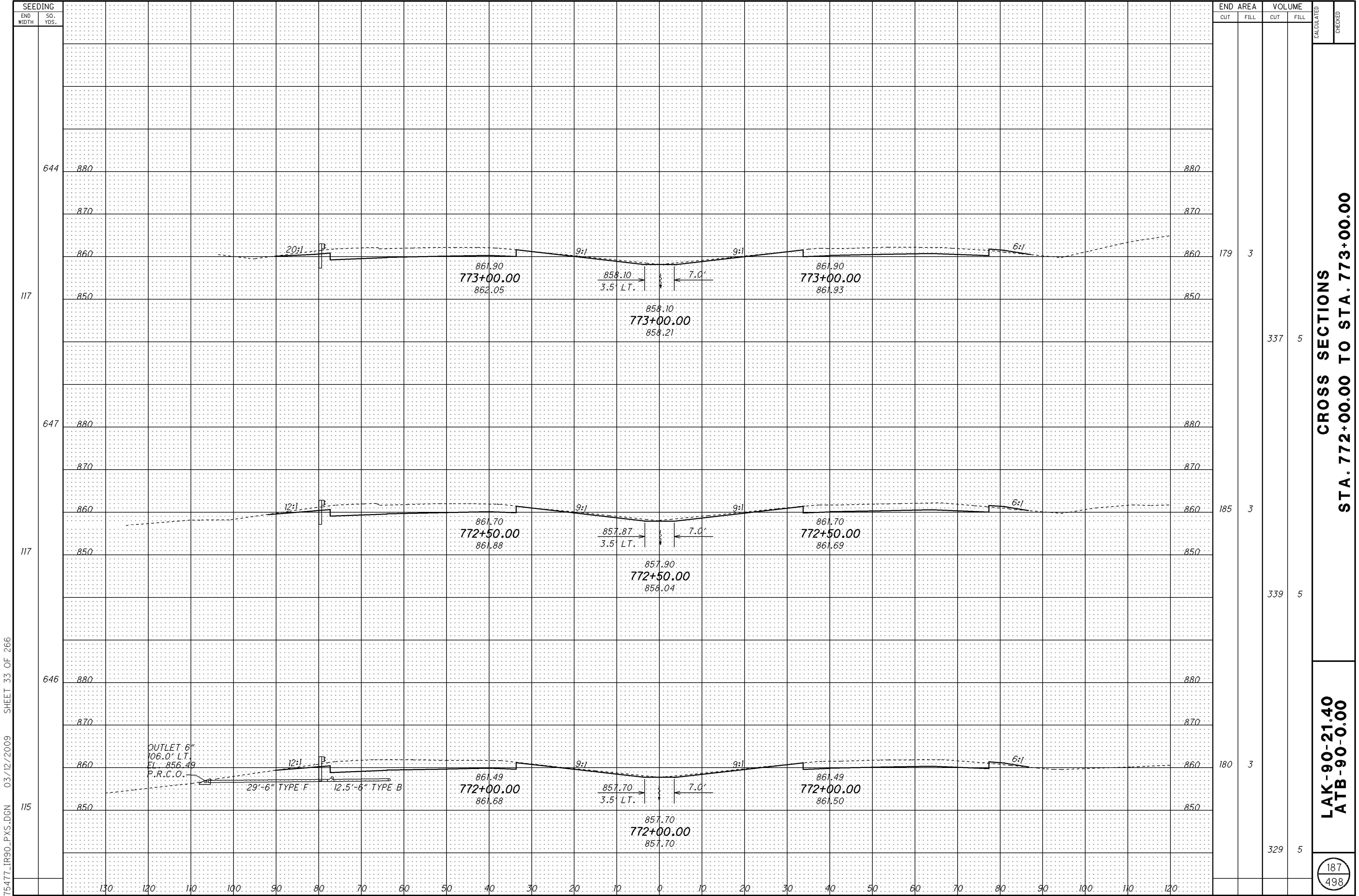
181
498

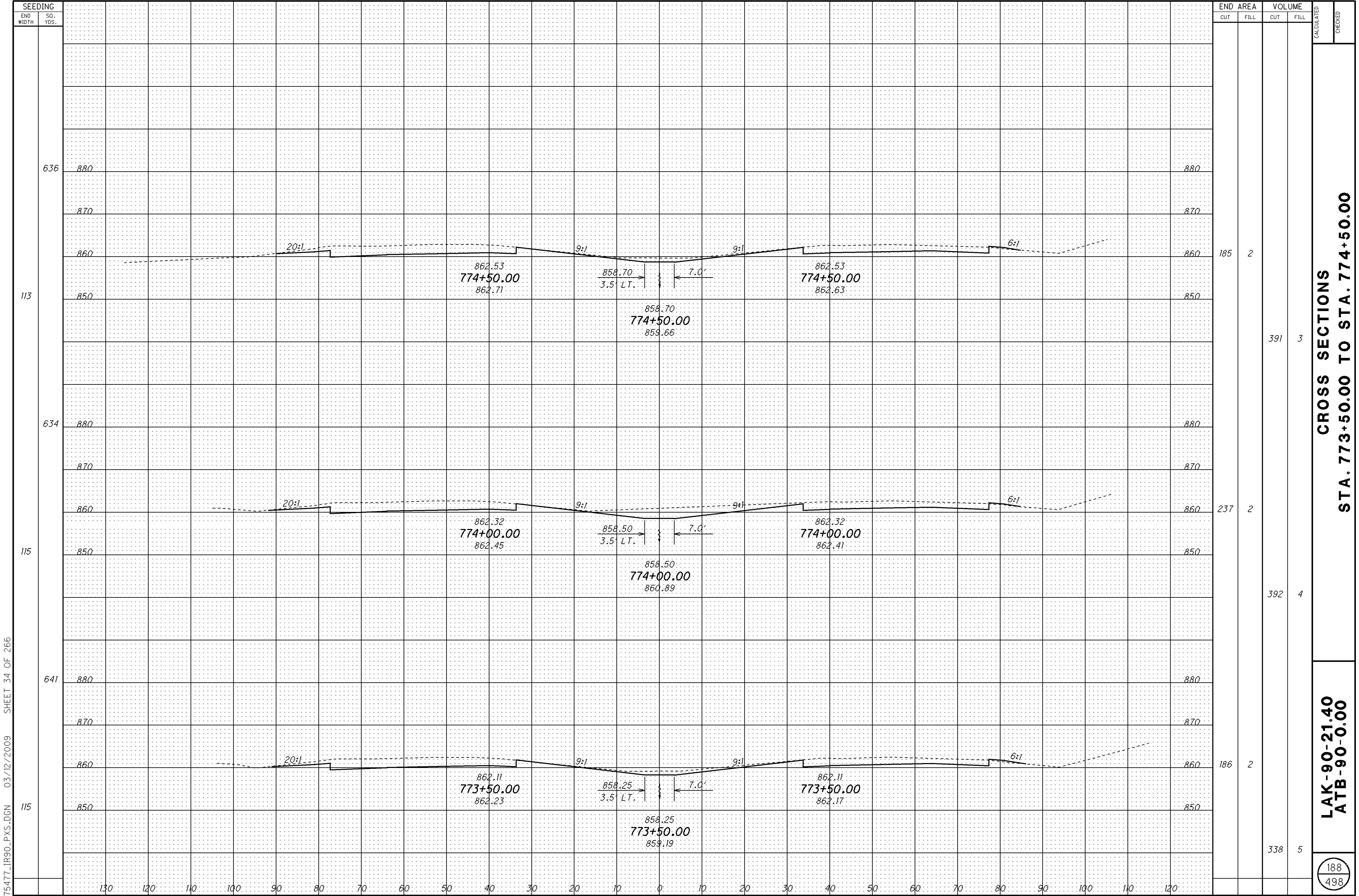


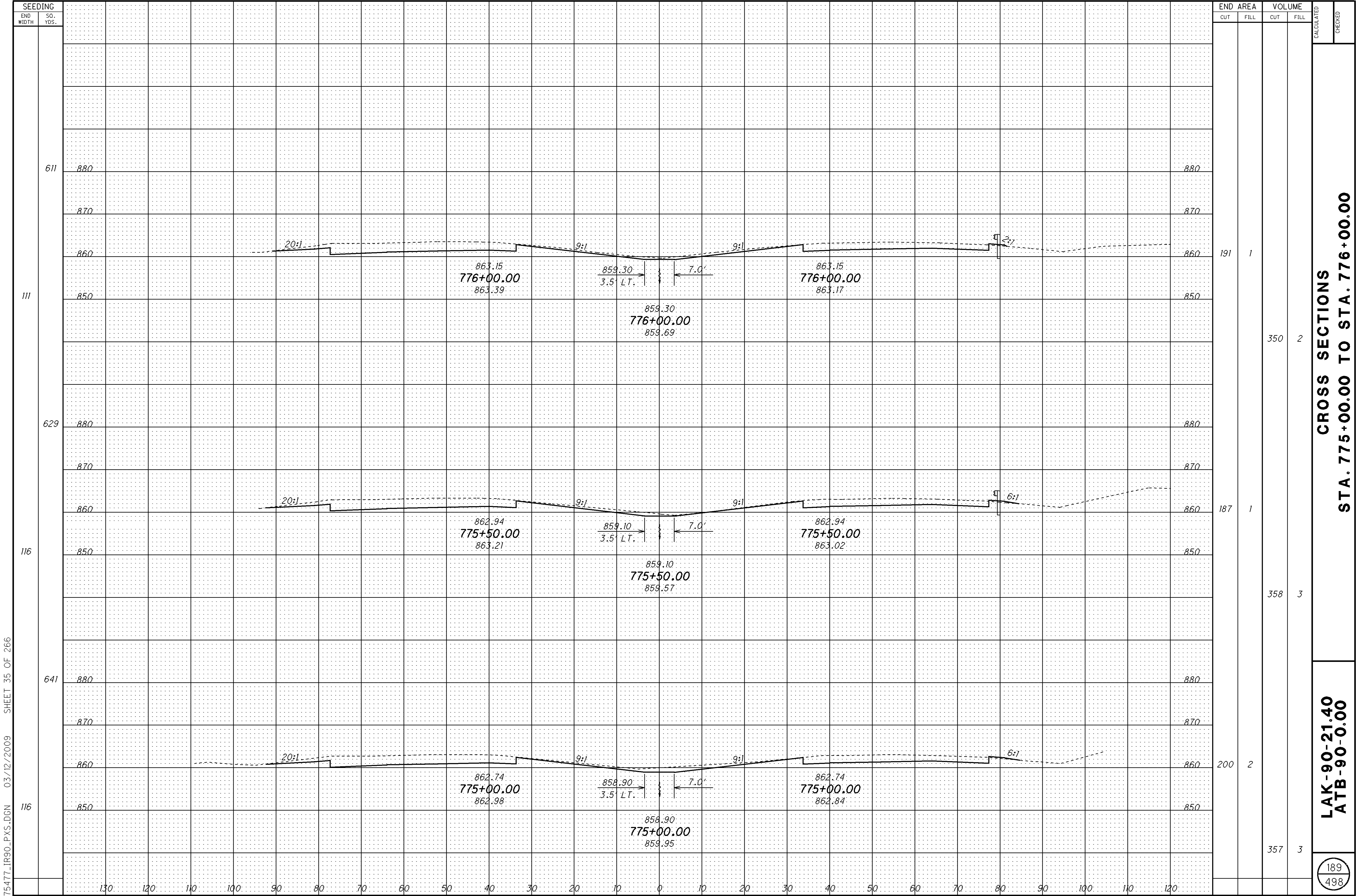


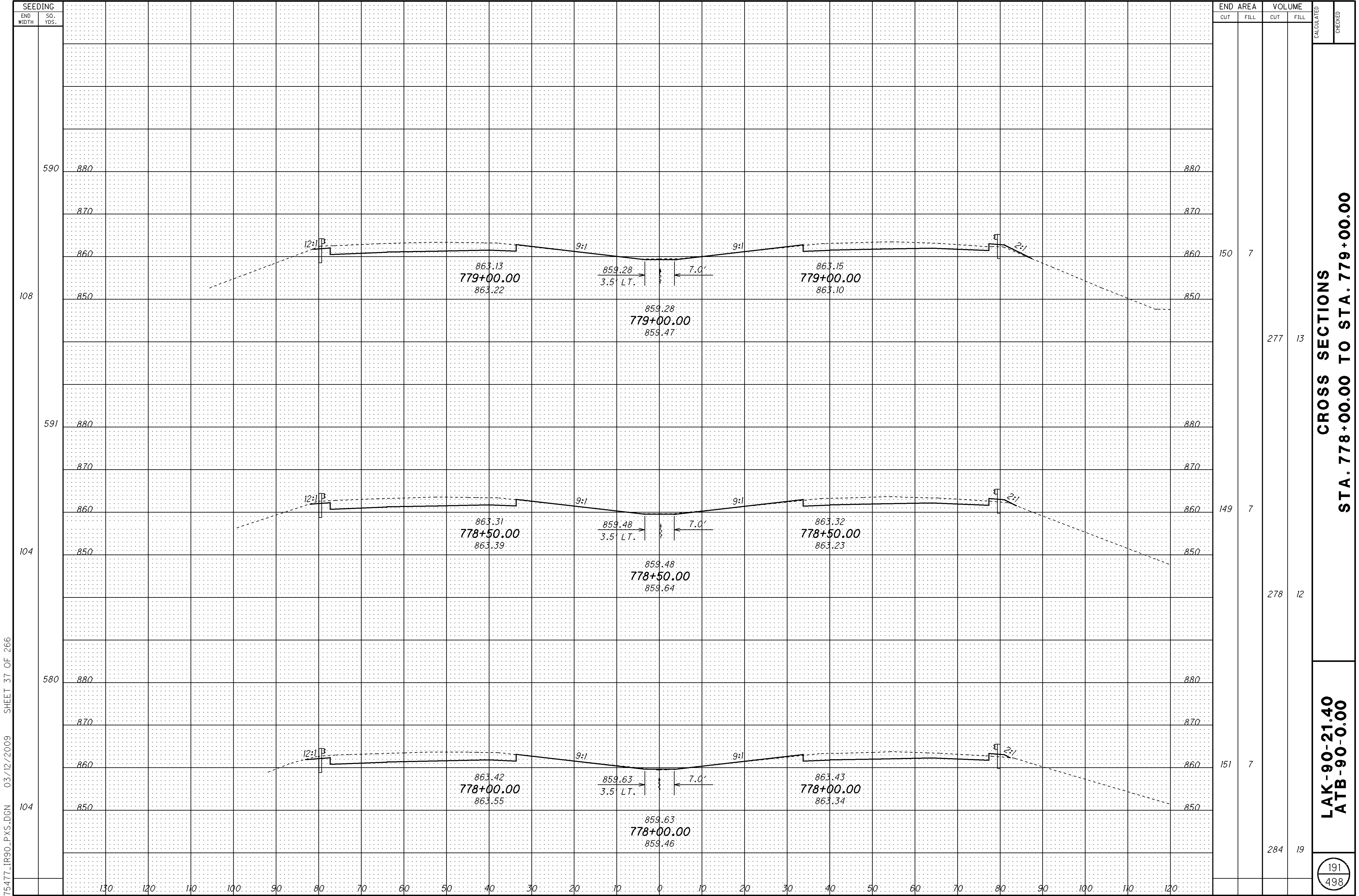
184
498

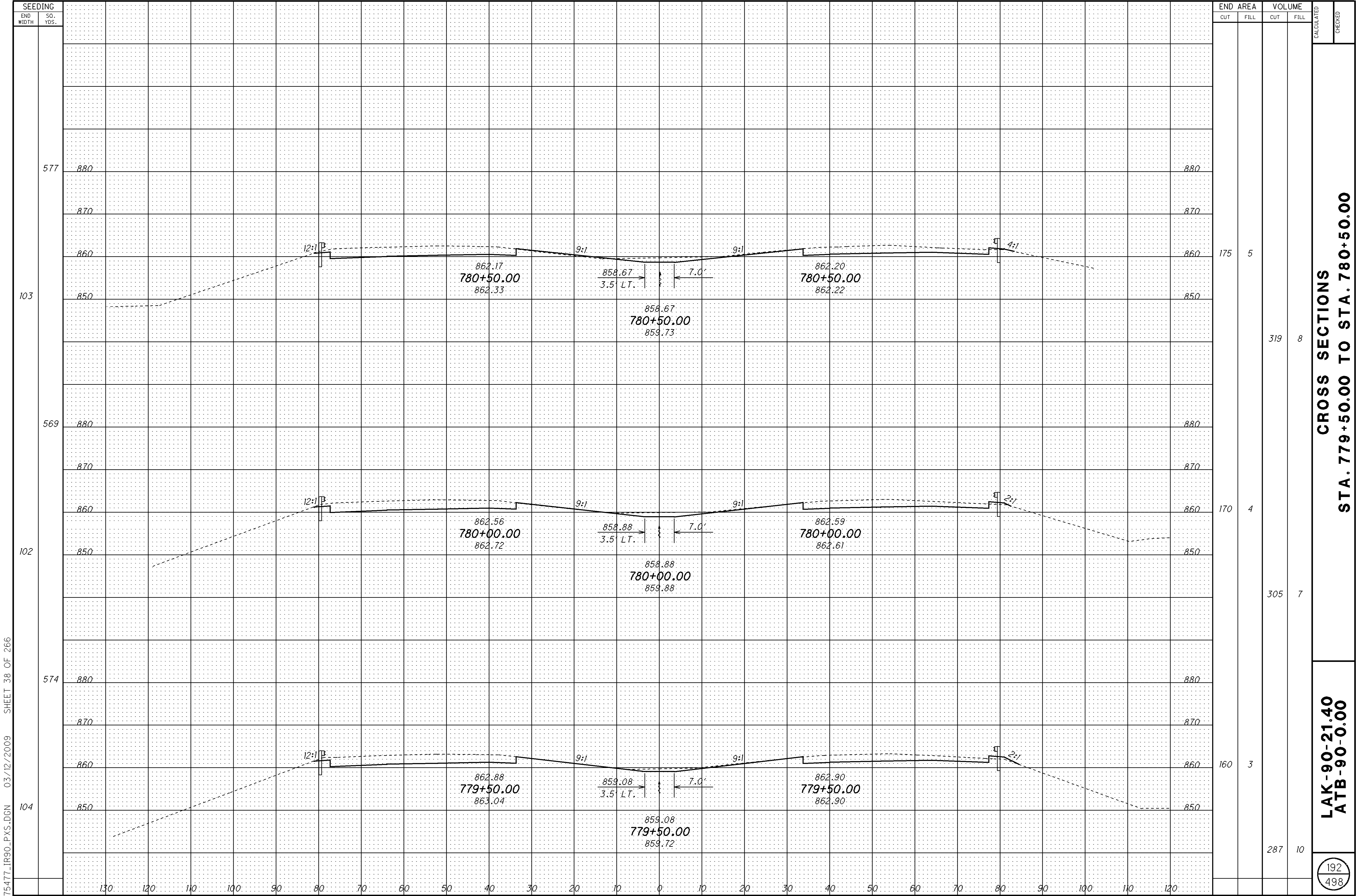
186
498



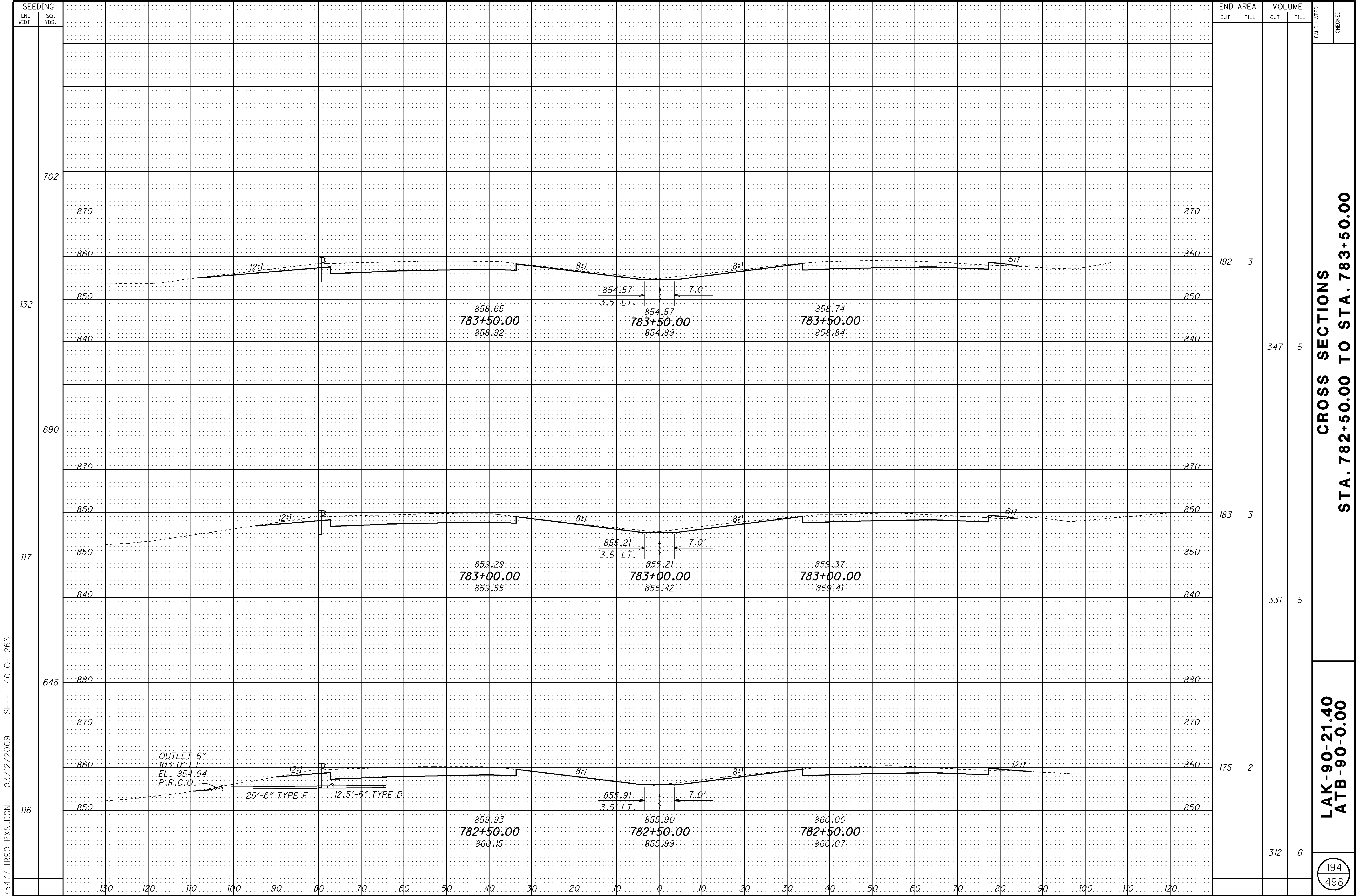


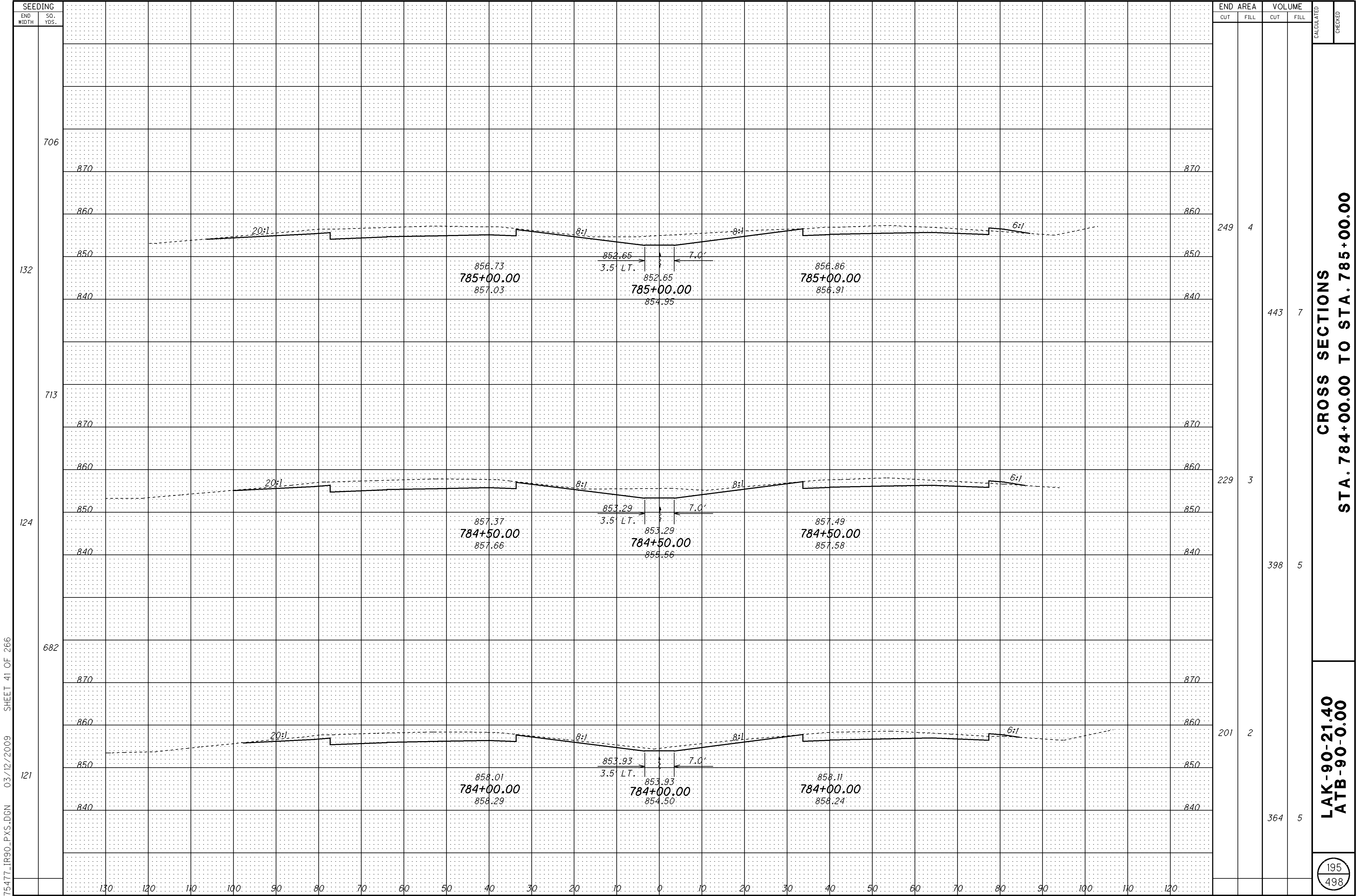


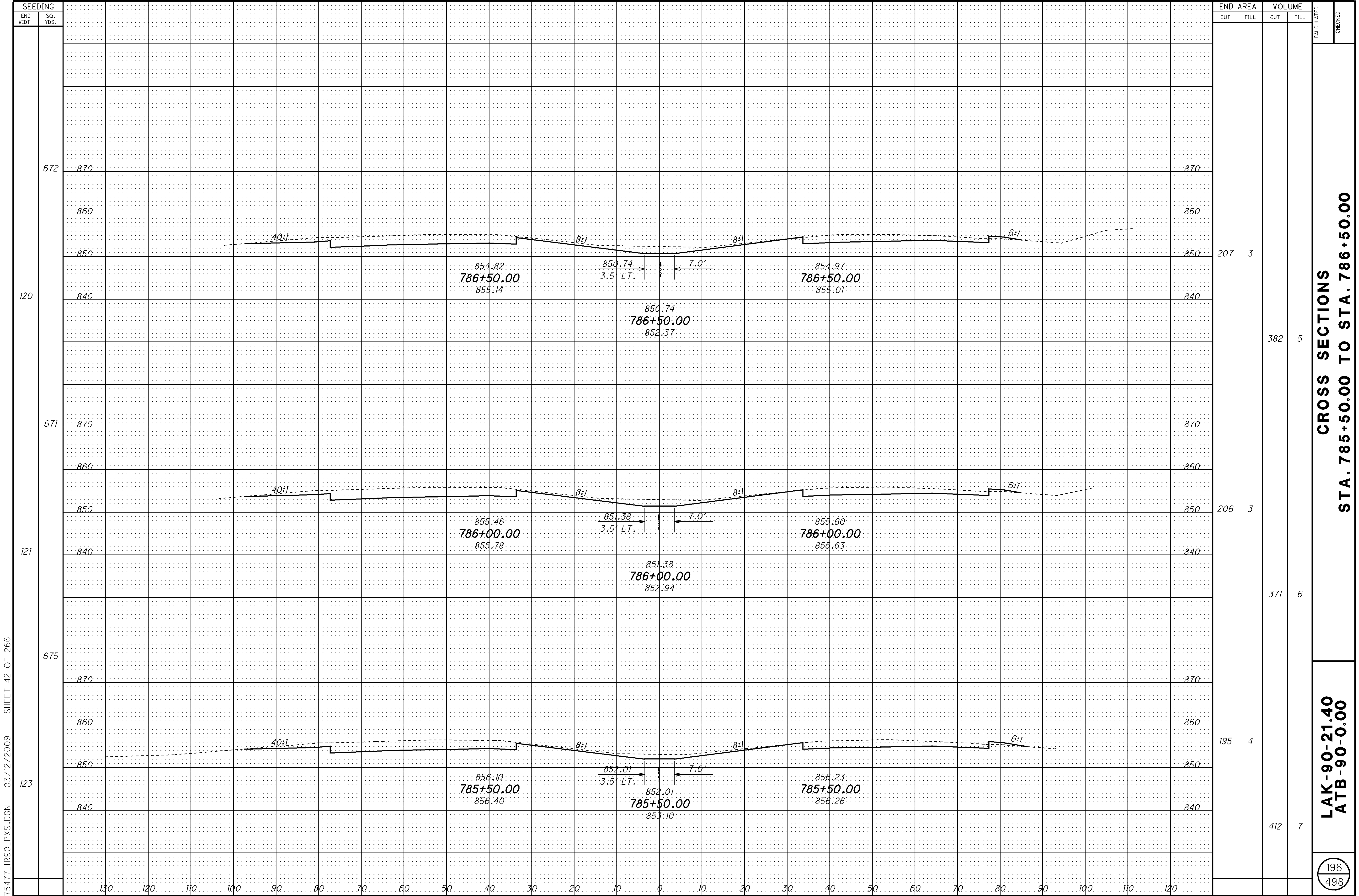


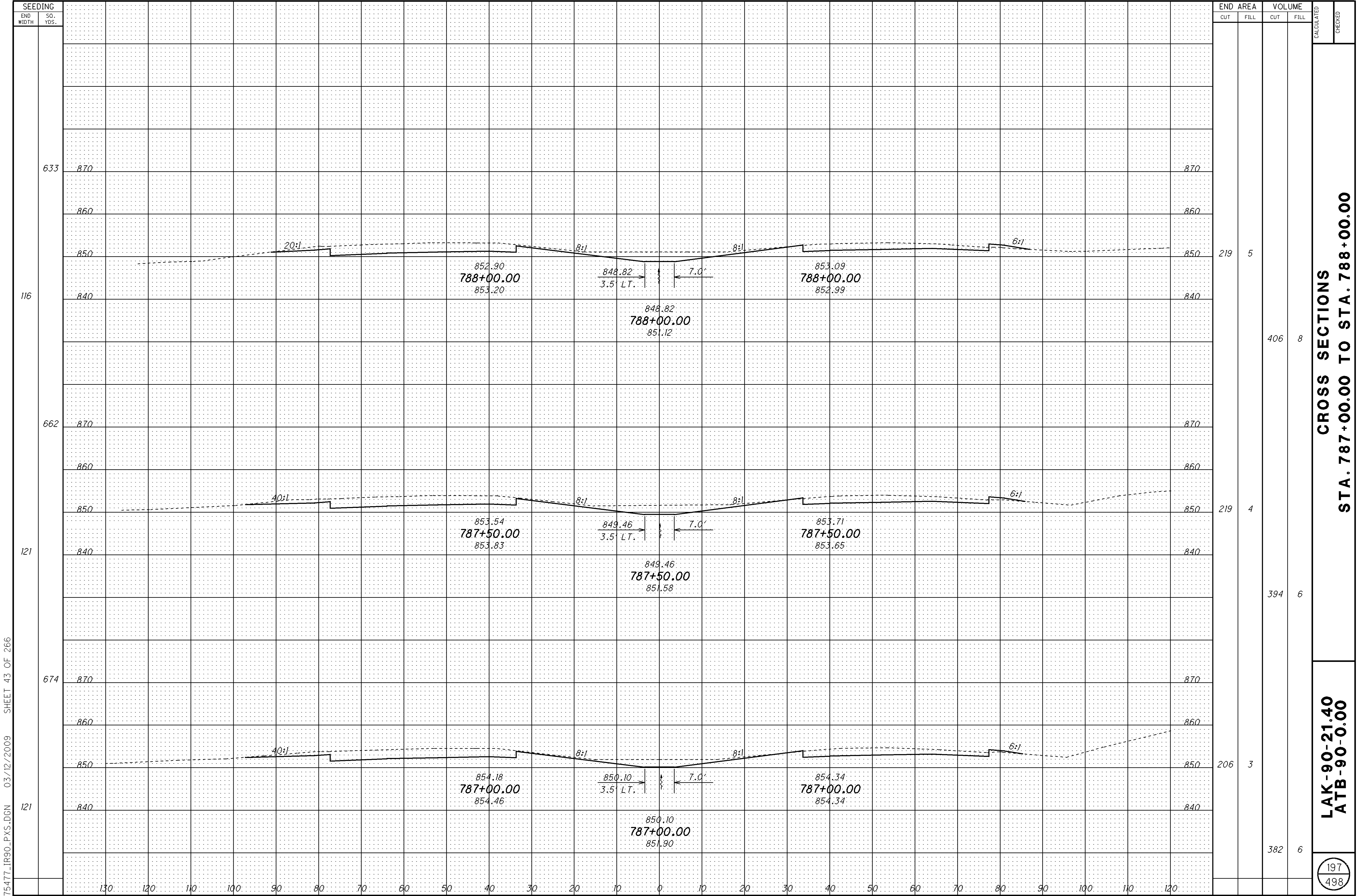


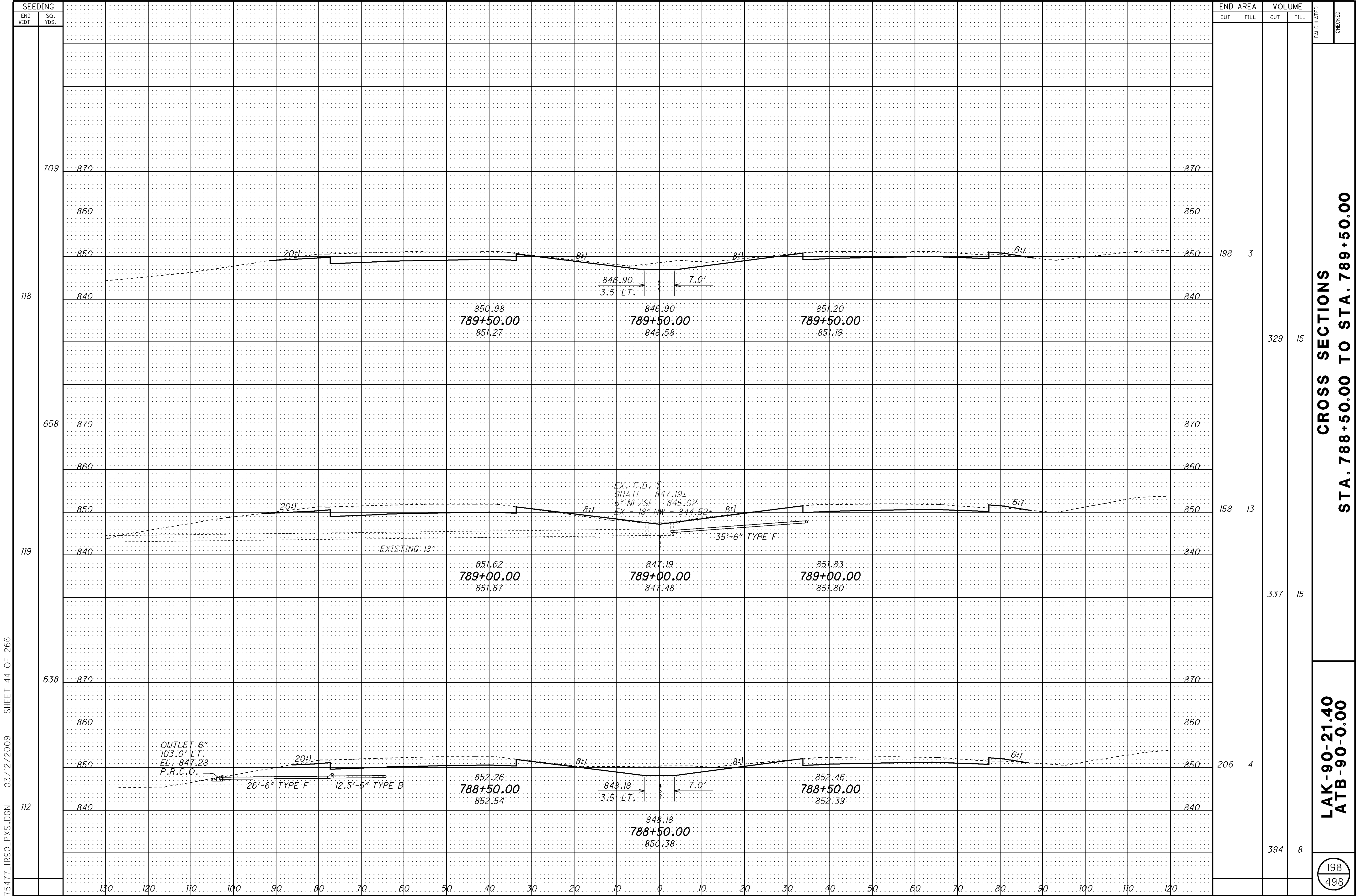
193
498

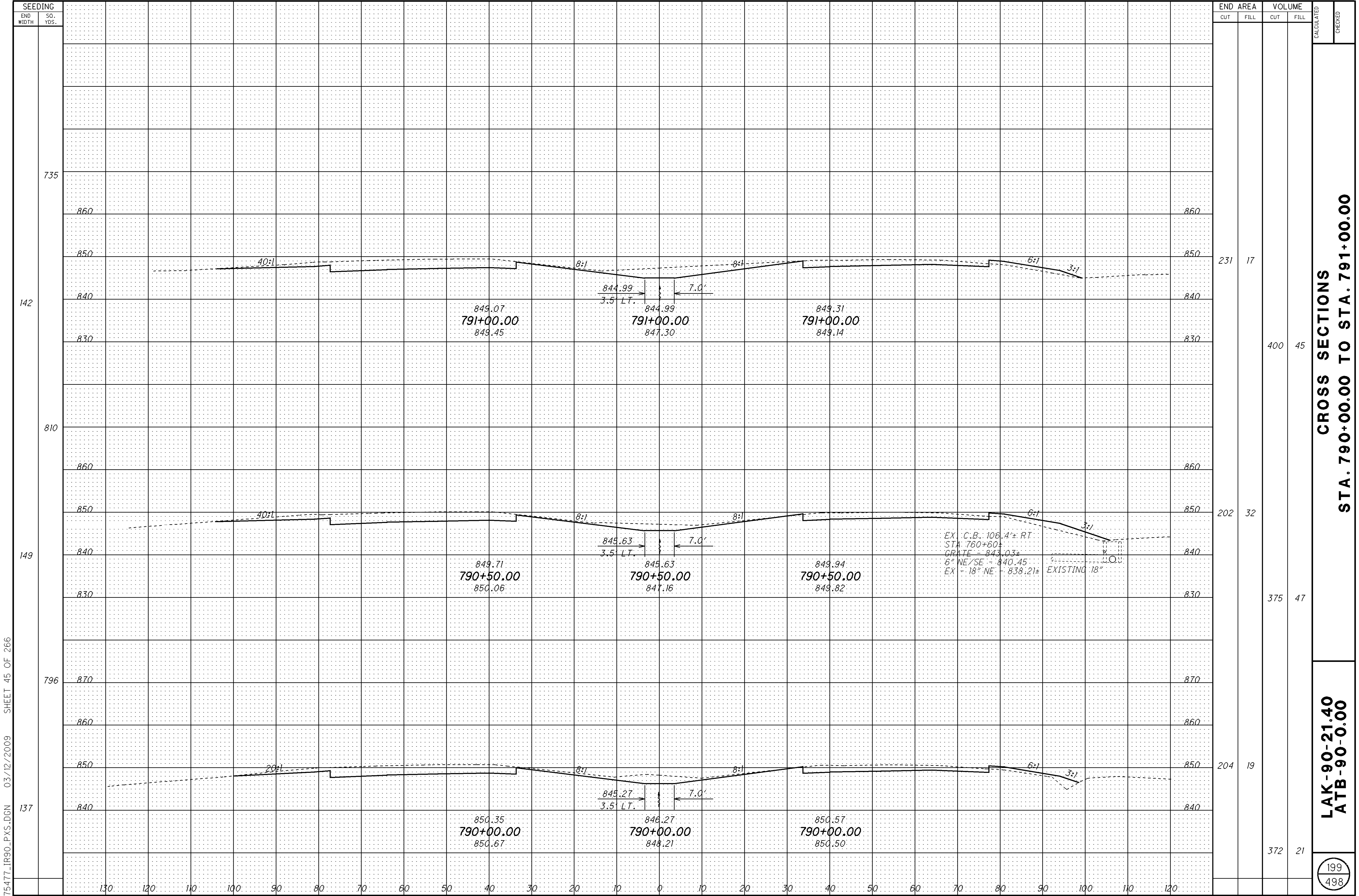


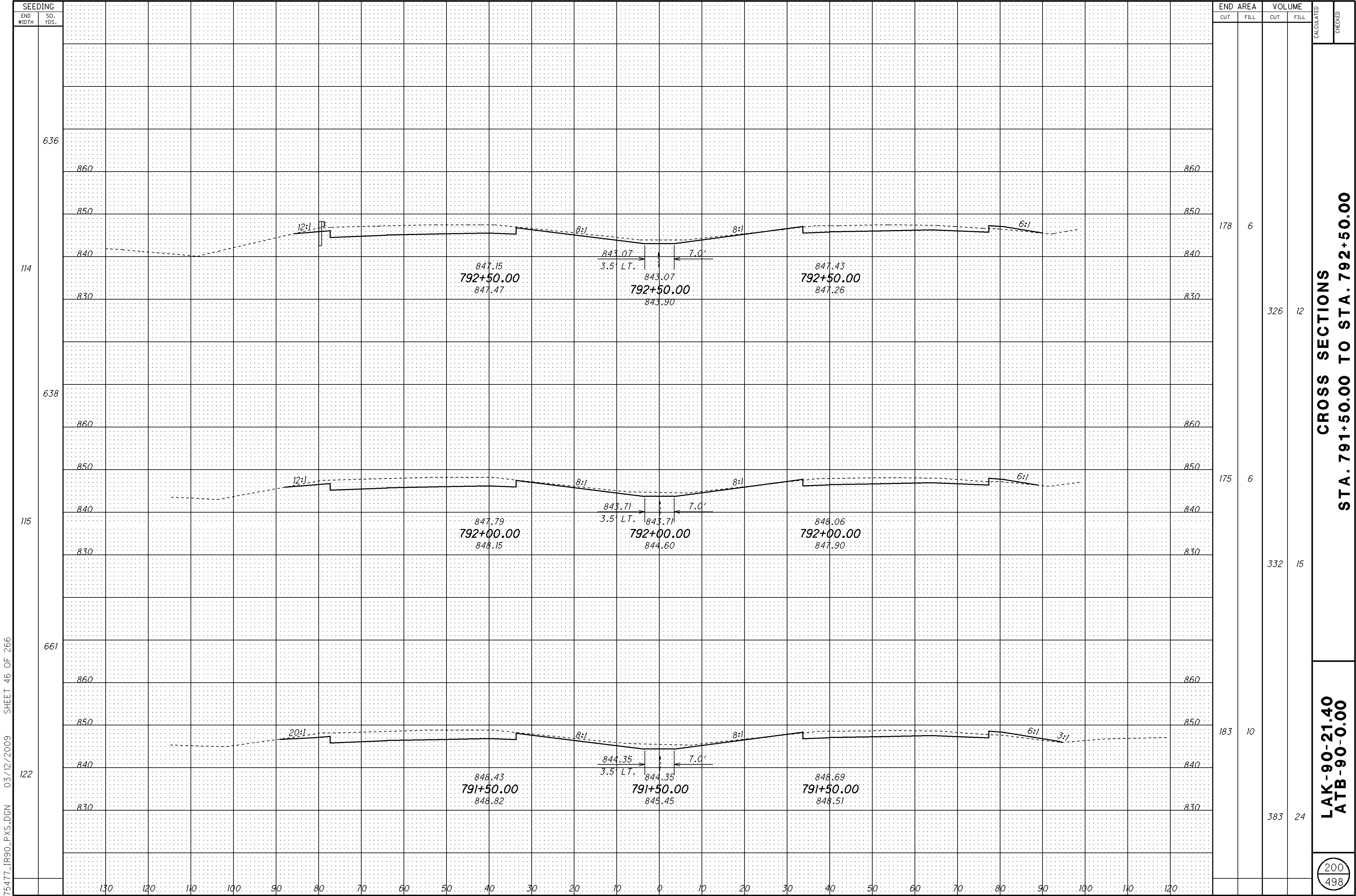


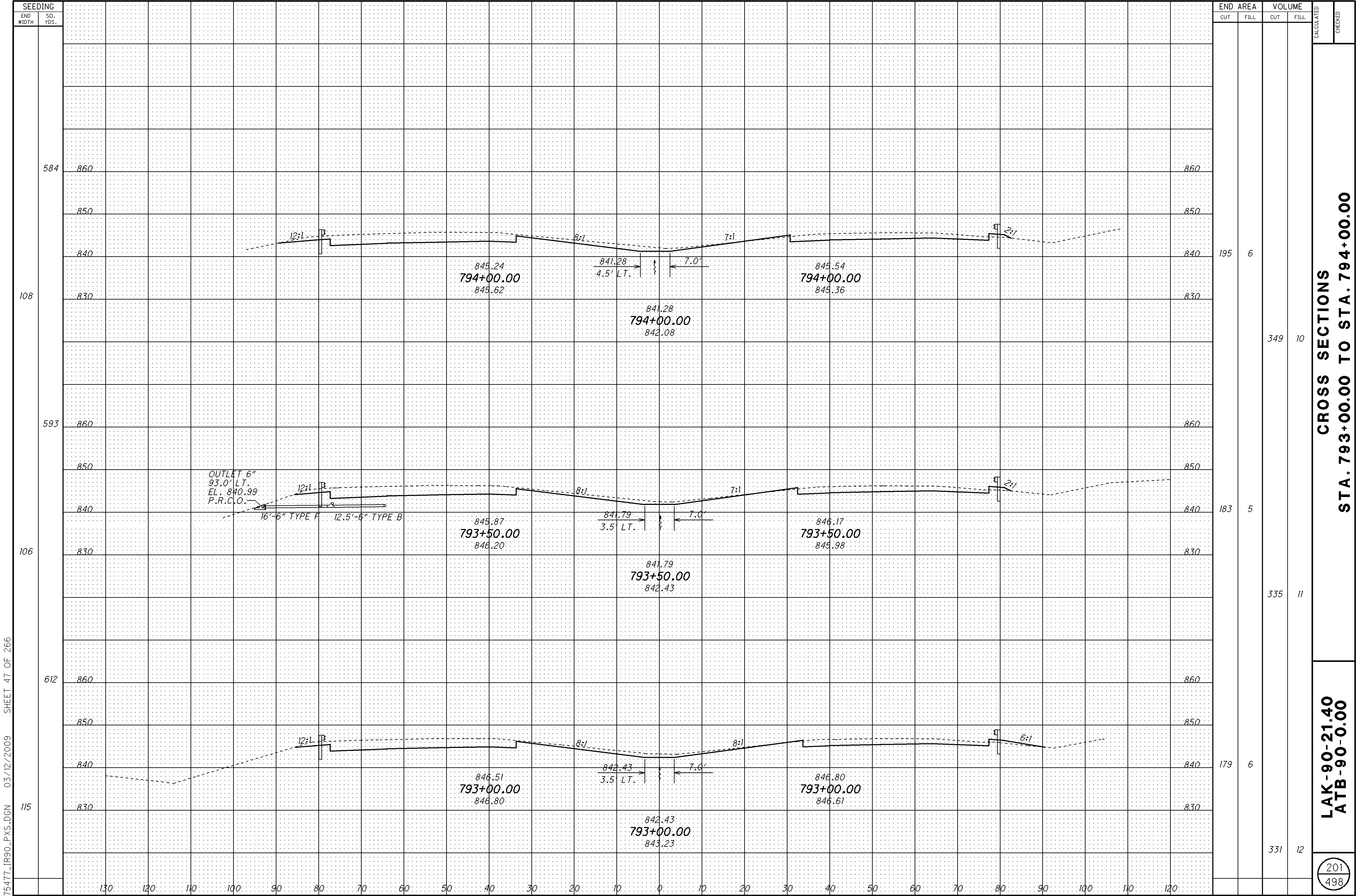


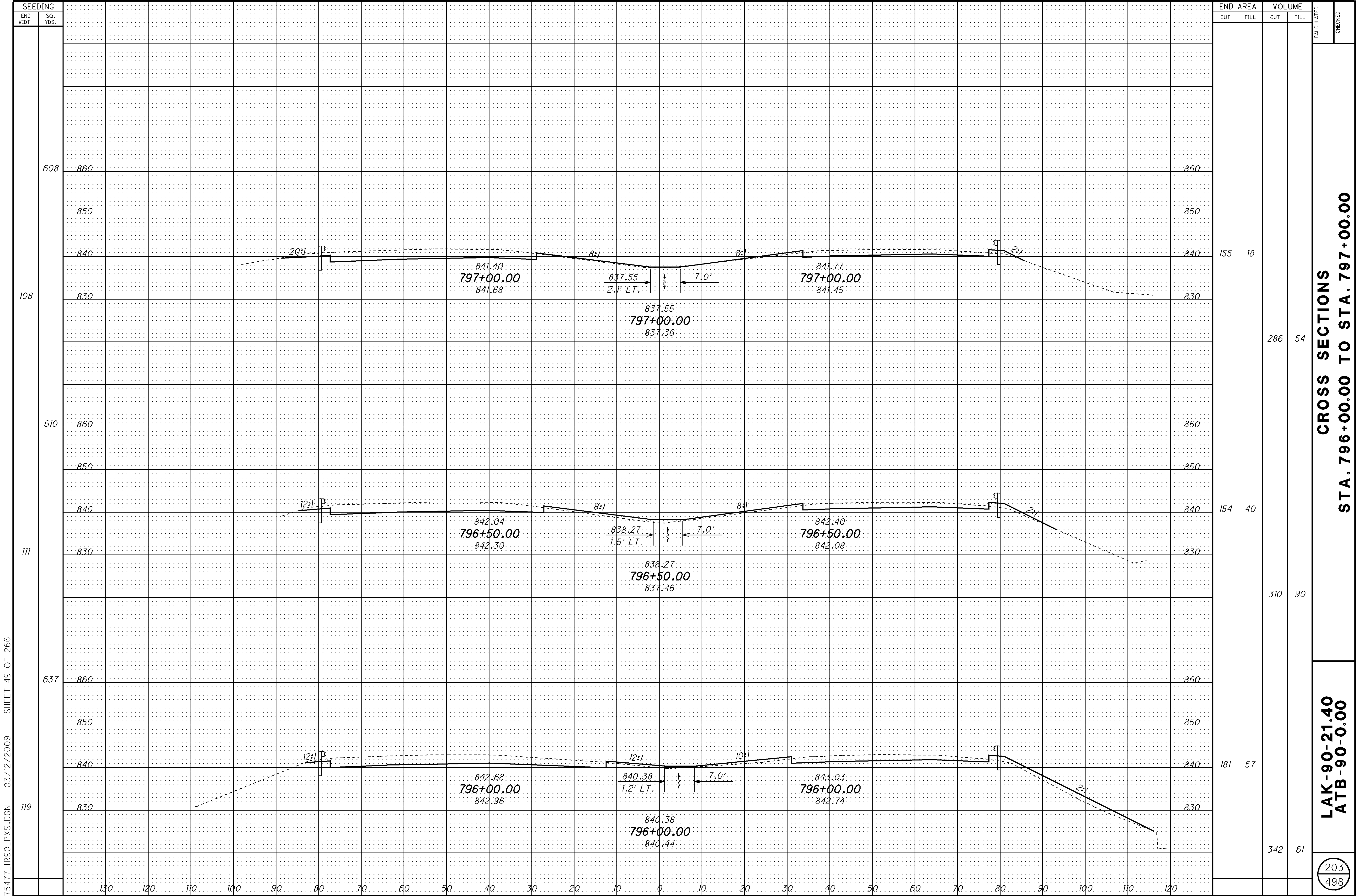


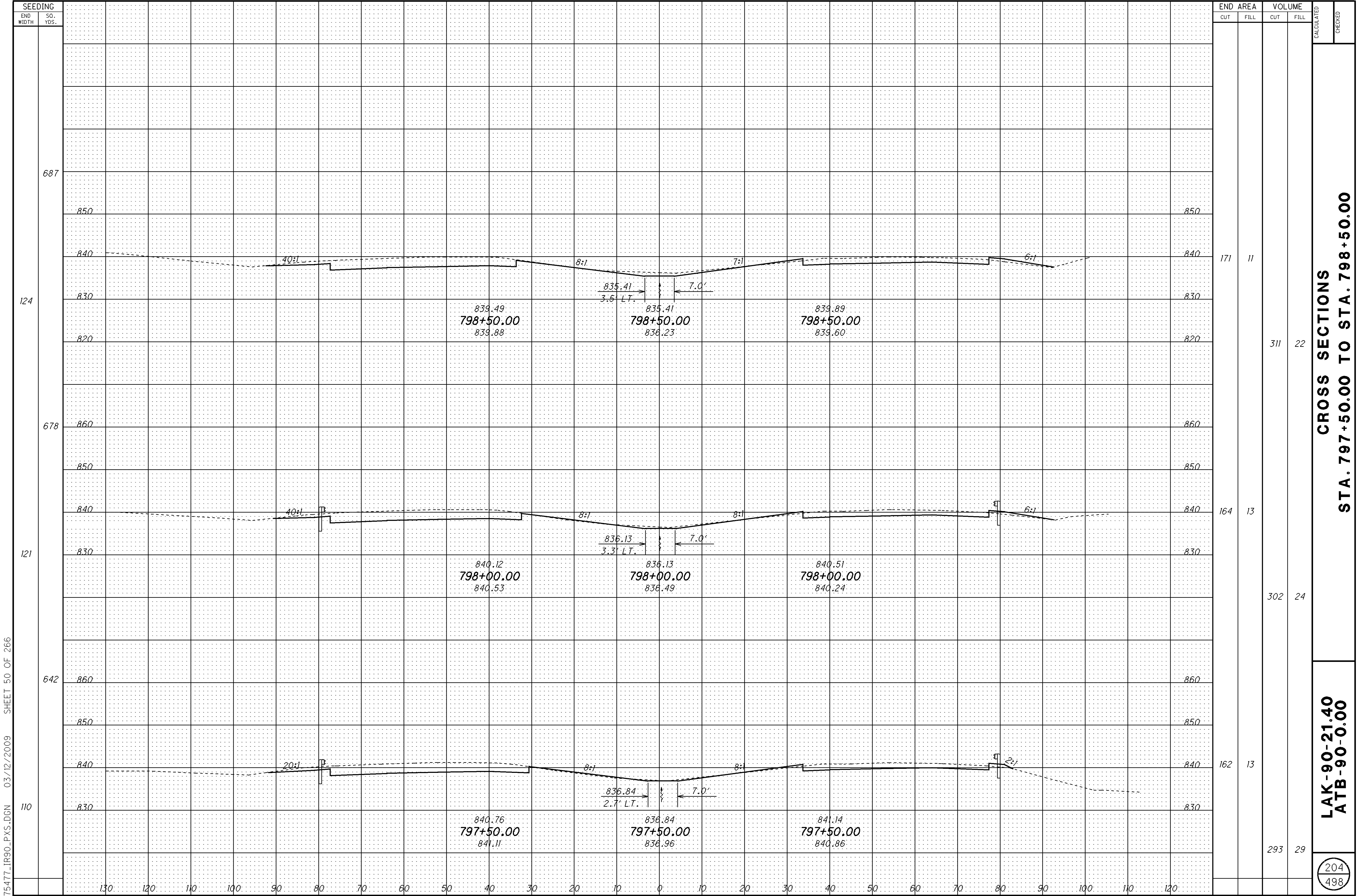


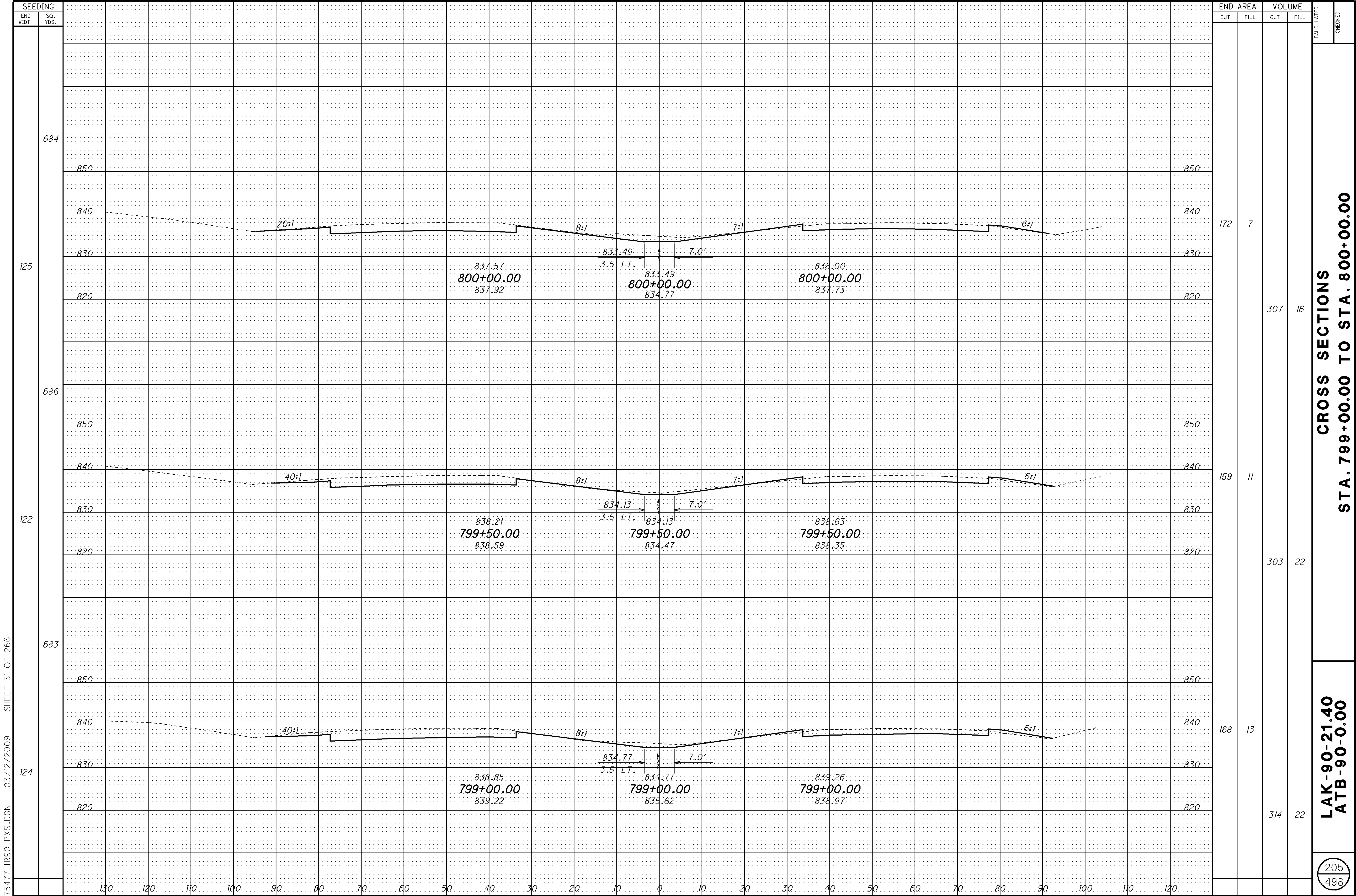






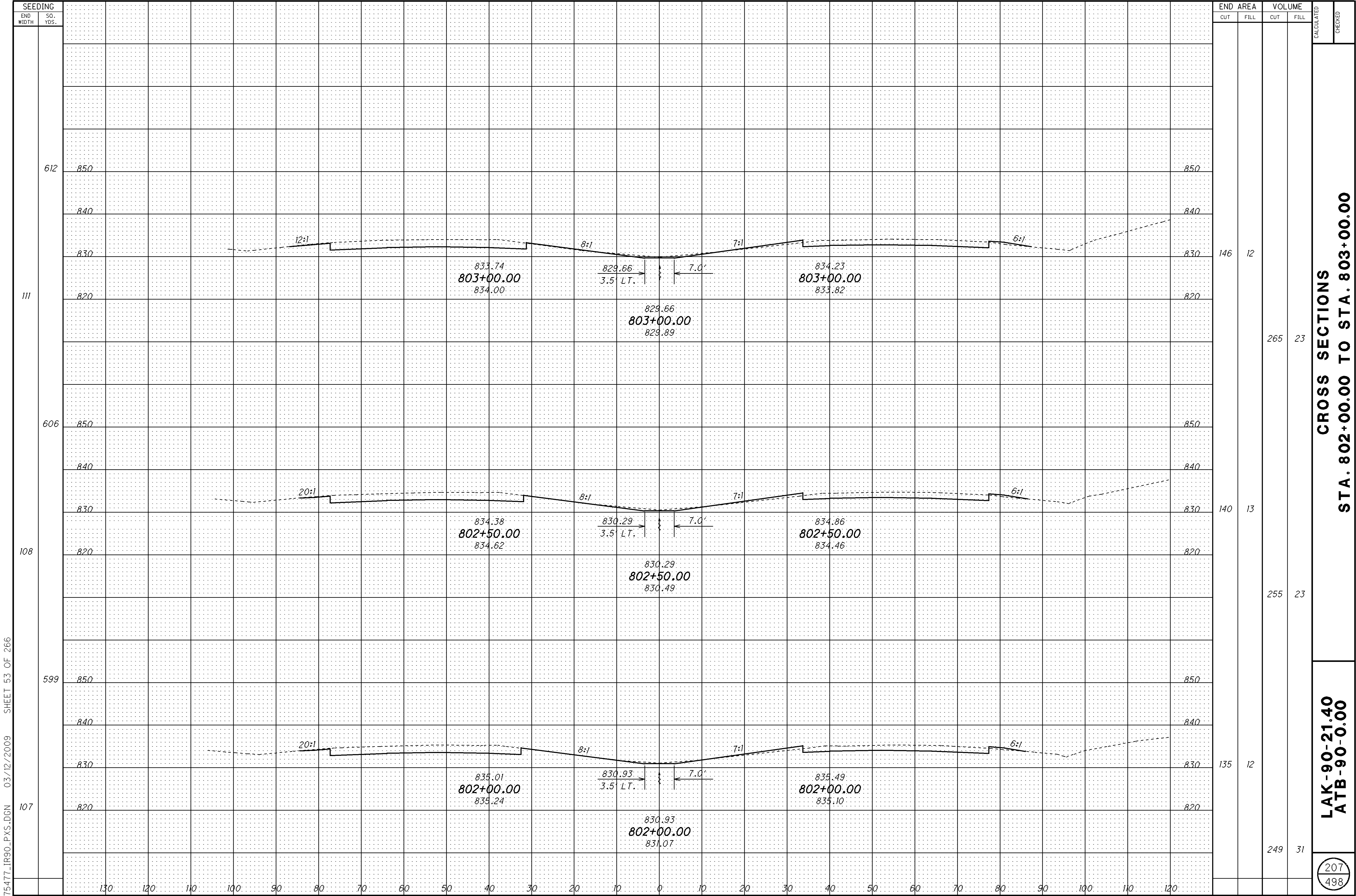




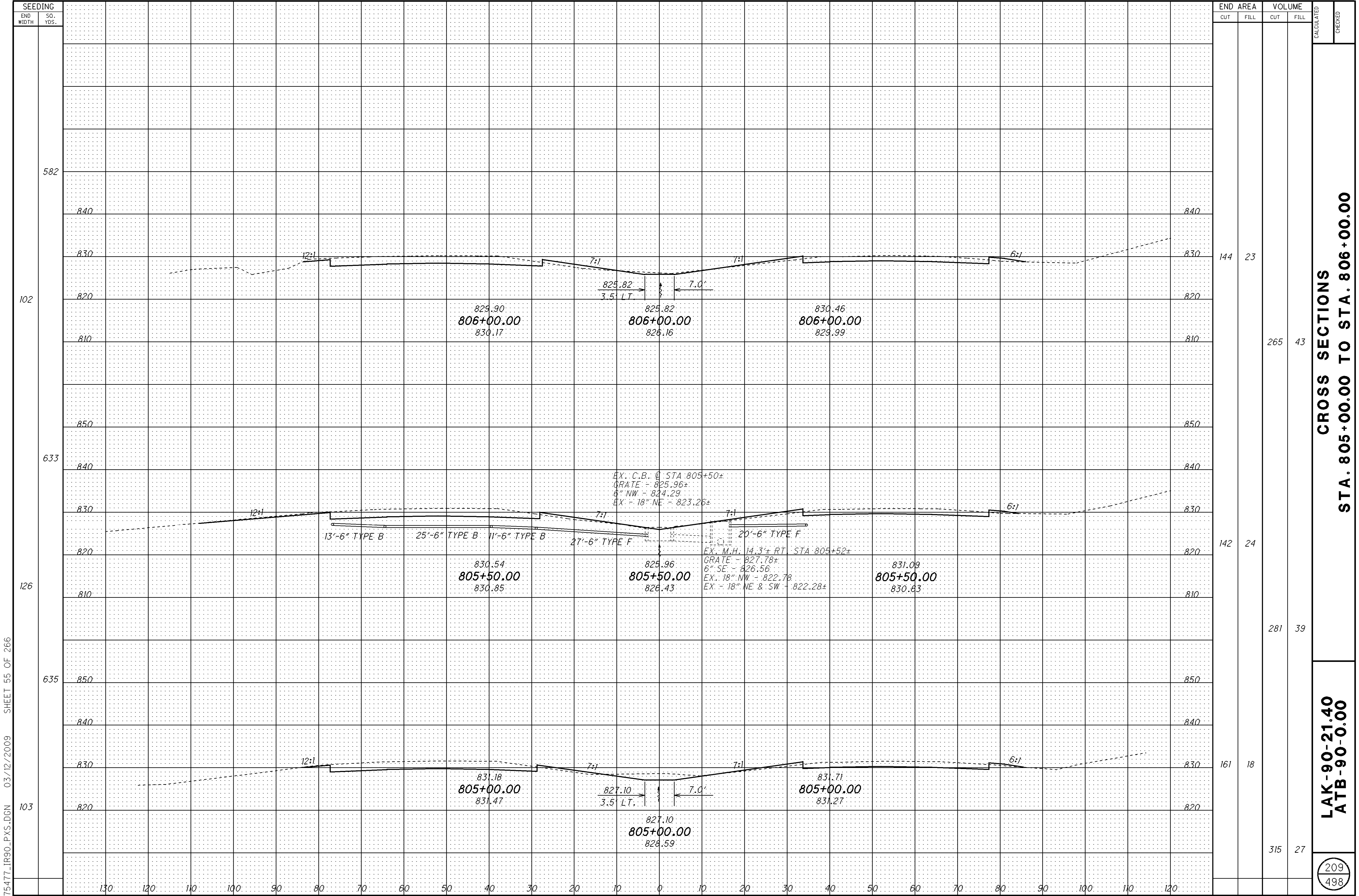


SEEDING																												END AREA		VOLUME		CALCULATED	CHECKED			
END WIDTH	SO. YDS.																											CUT	FILL	CUT	FILL					
606	110	850																											850	133	20	254	33	CROSS SECTIONS STA. 800+50.00 TO STA. 801+50.00	LAK-90-21.40 ATB-90-0.00	206 498
		840																											840							
		830																											830							
		820																											820							
																												830								
																												820								
																												810								
																												800								
																												790								
																												780								
623	114	850																											850	141	15	276	21			
		840																											840							
		830																											830							
		820																											820							
																												830								
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																												800								
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																												780								
655	122	850																											850	156	7	304	13			
		840																											840							
		830																											830							
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																												810								
																												800								
																												790								
																												780								

130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120
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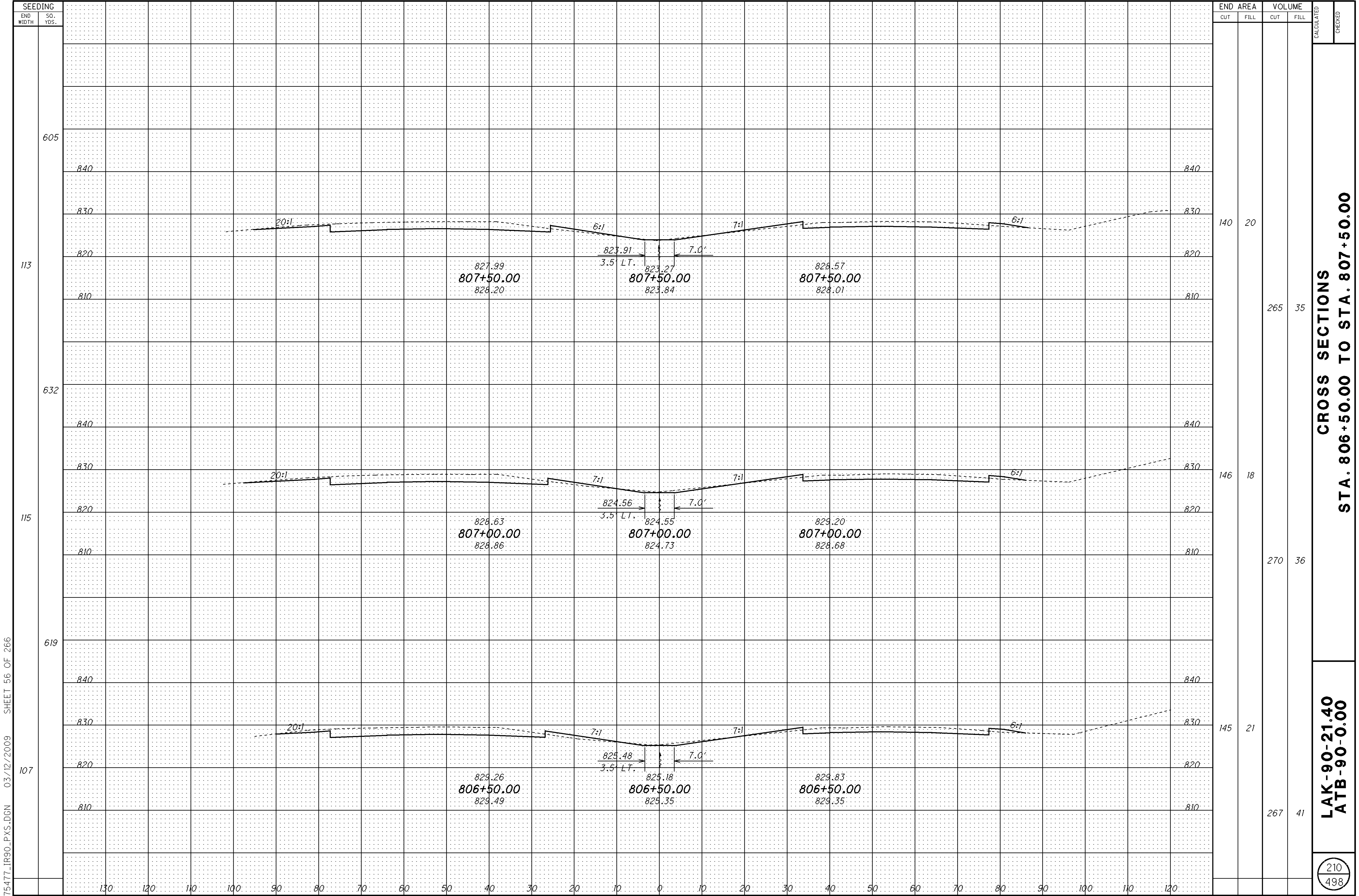


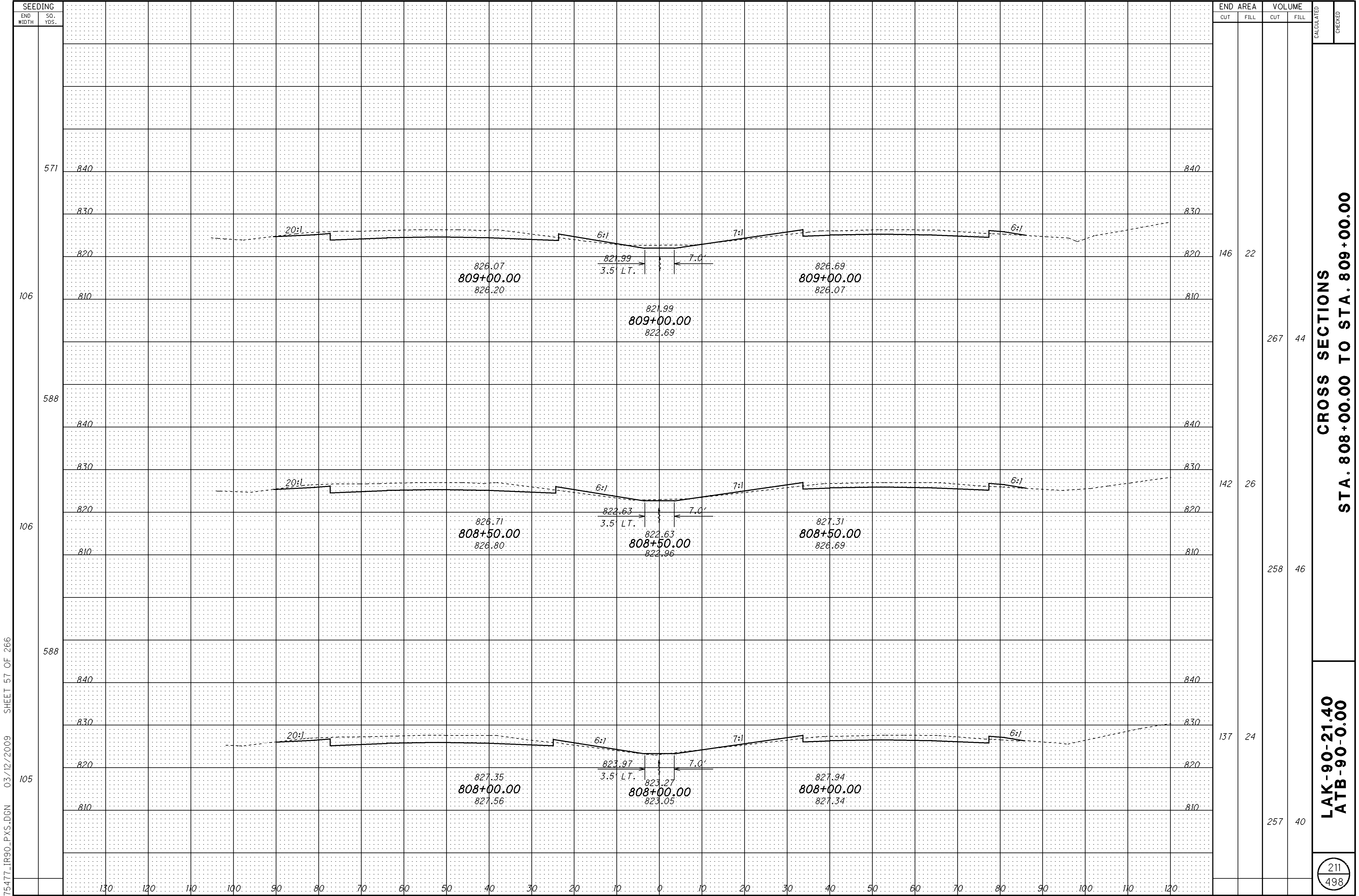
$$\frac{208}{498}$$

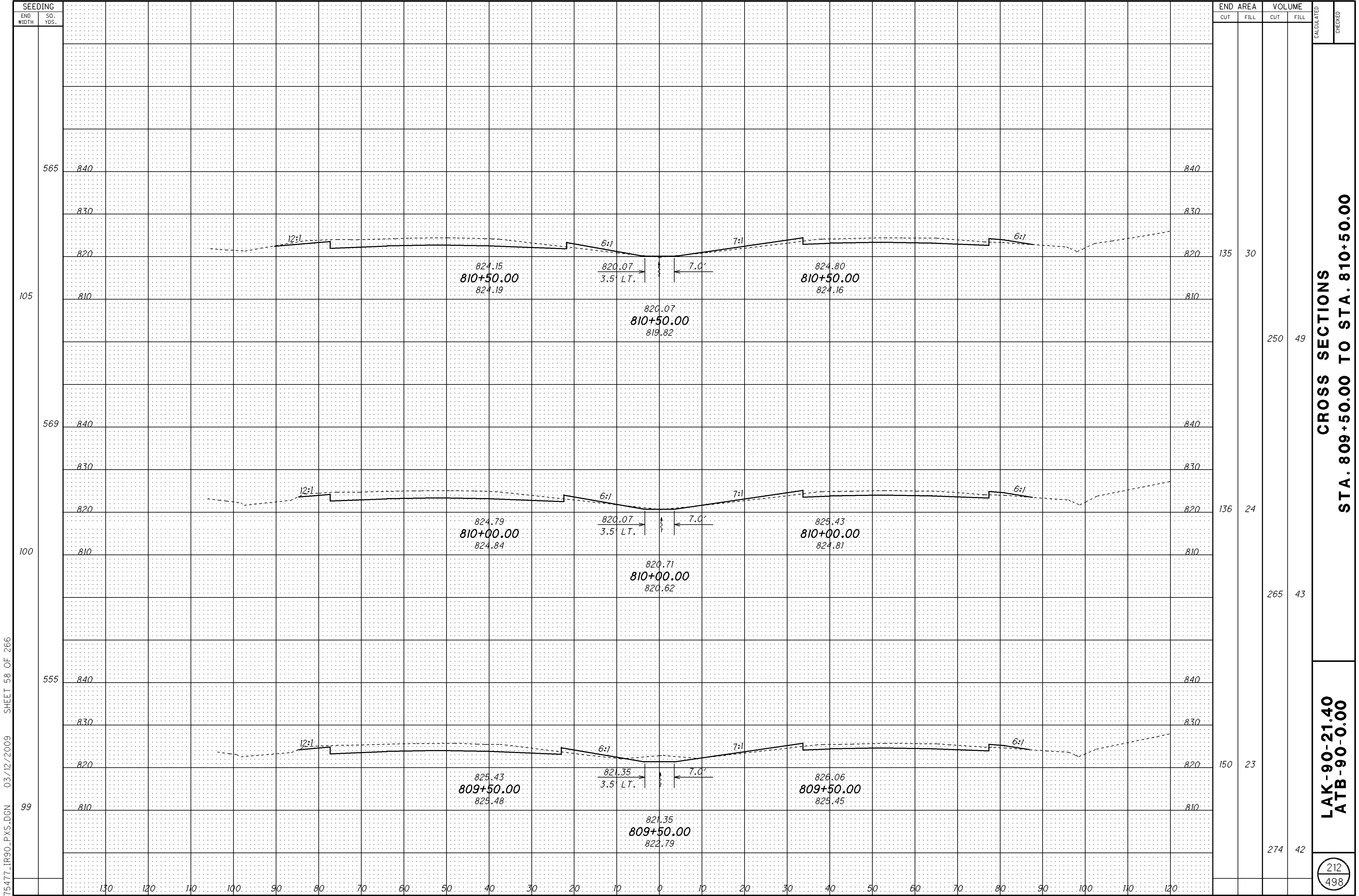


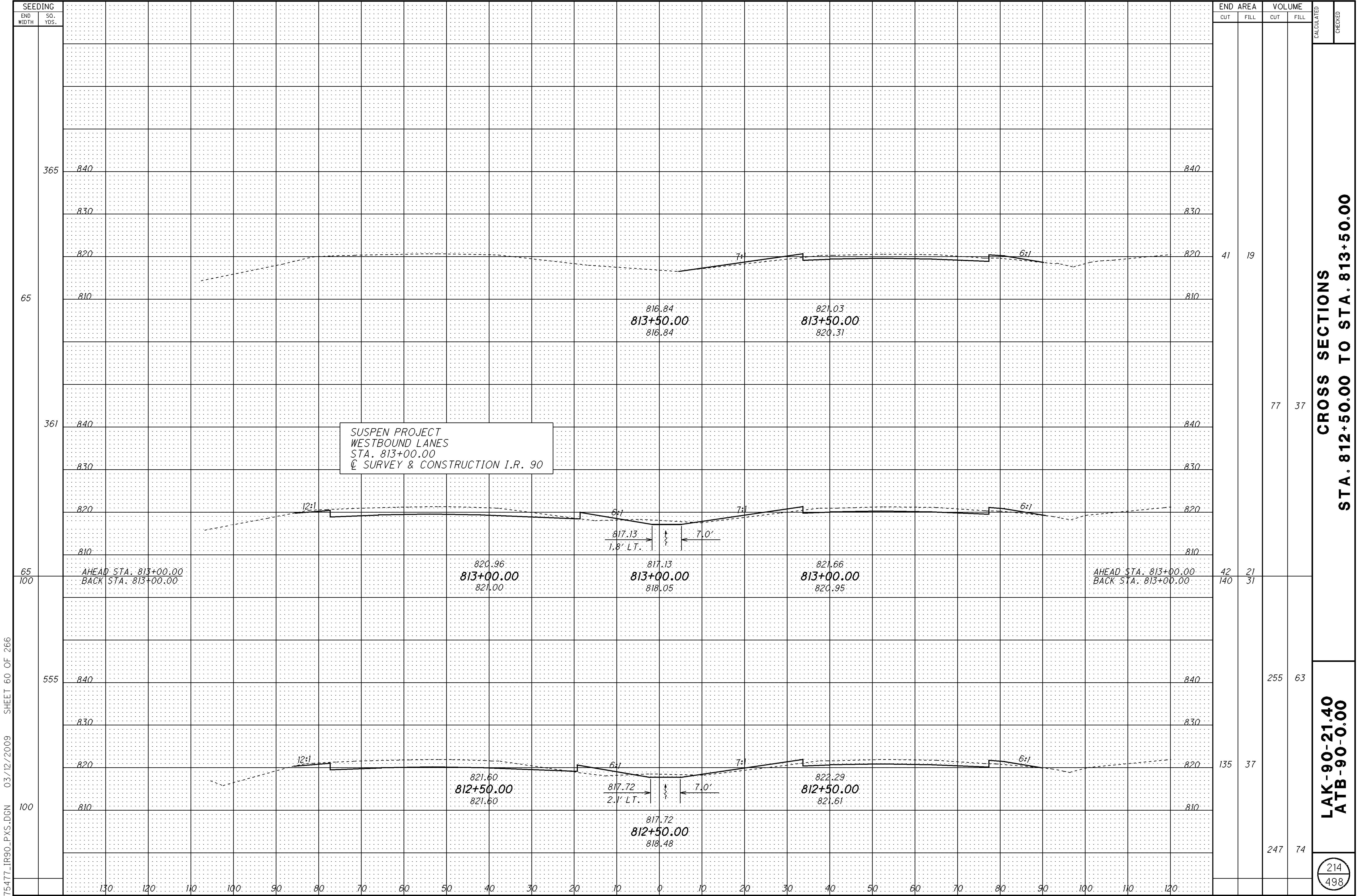
CROSS SECTIONS
STA. 805+00.00 TO STA. 806+00.00

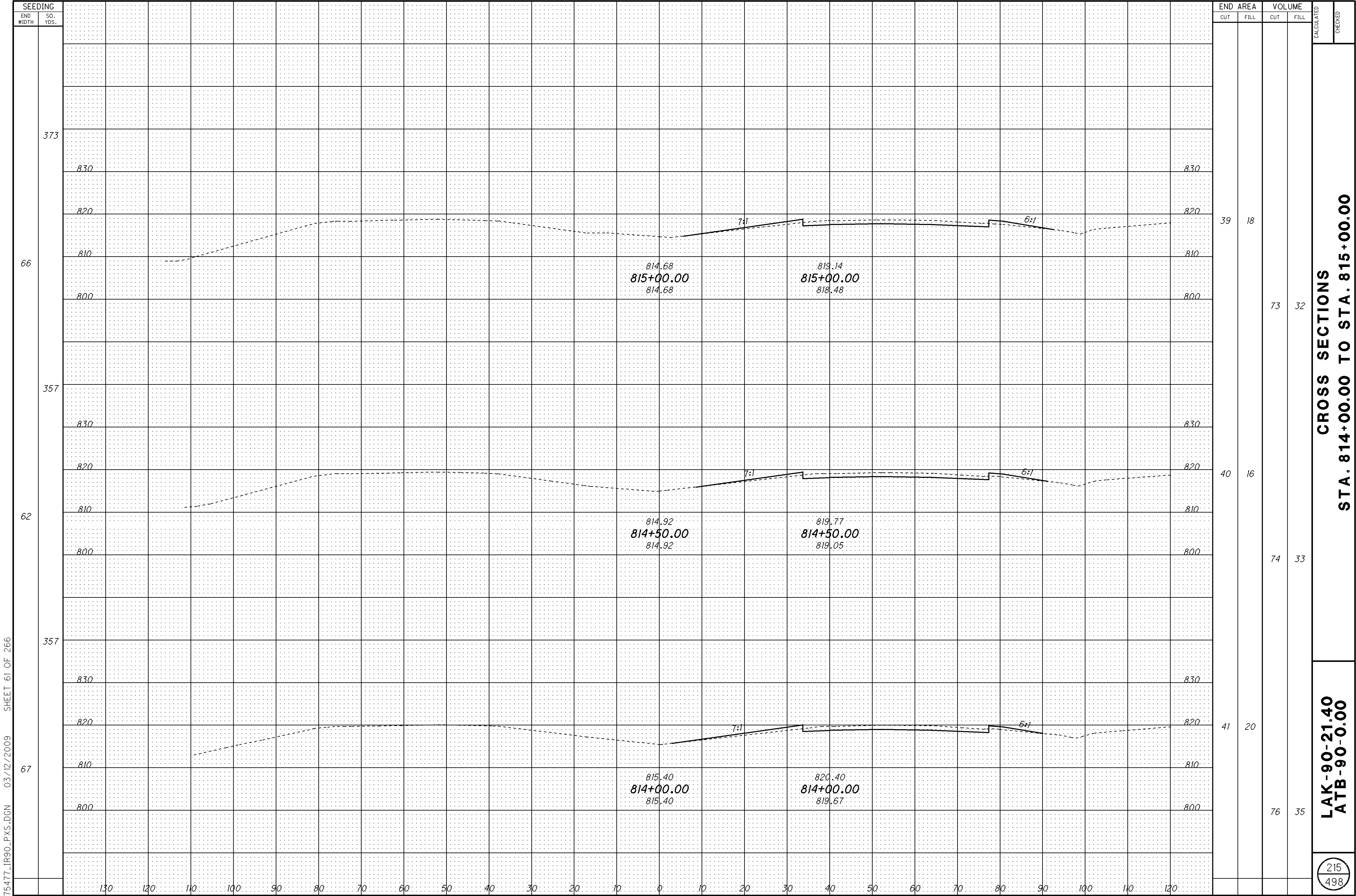
LAK-90-21.40
ATB-90-0.00

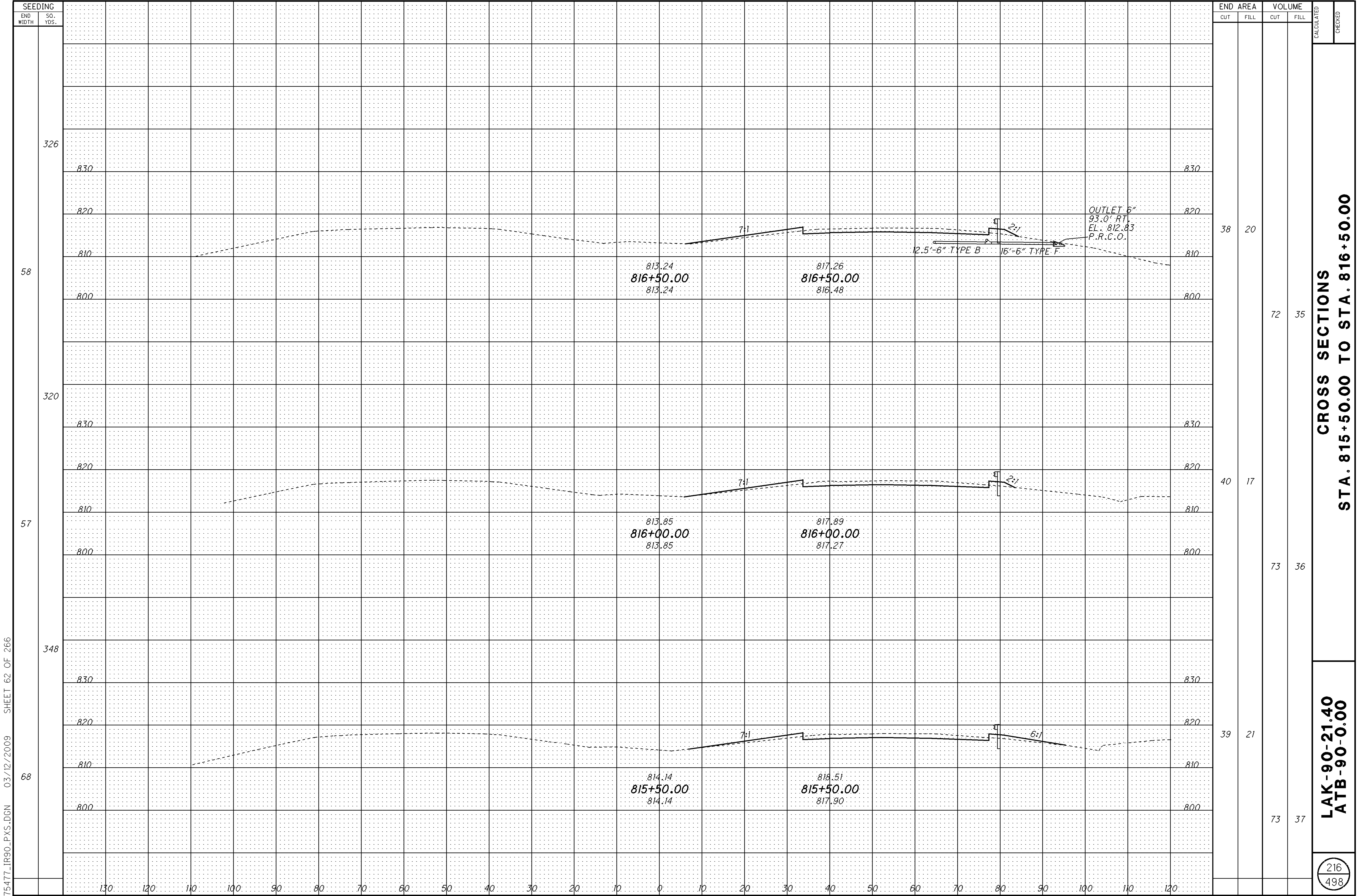


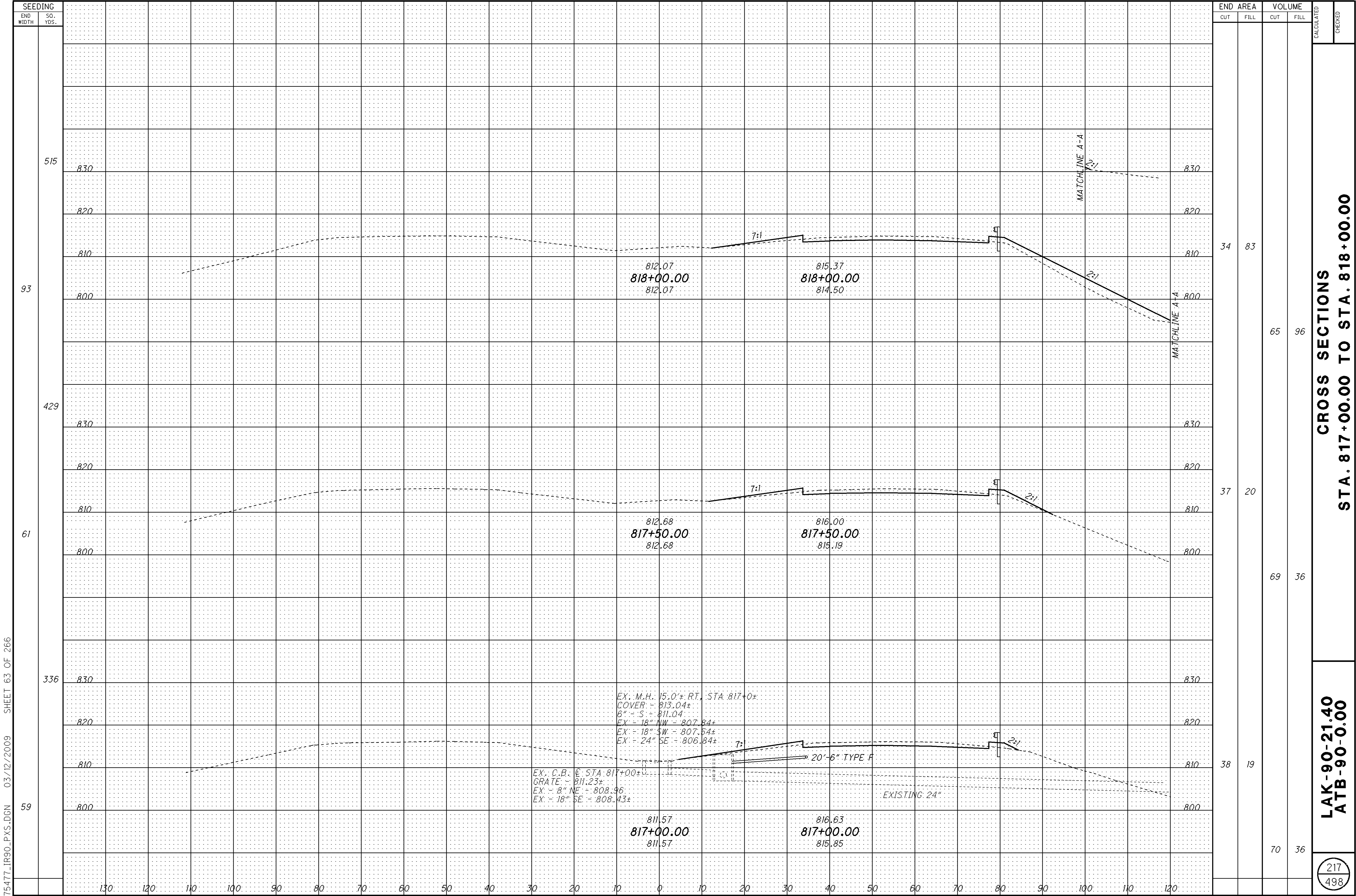




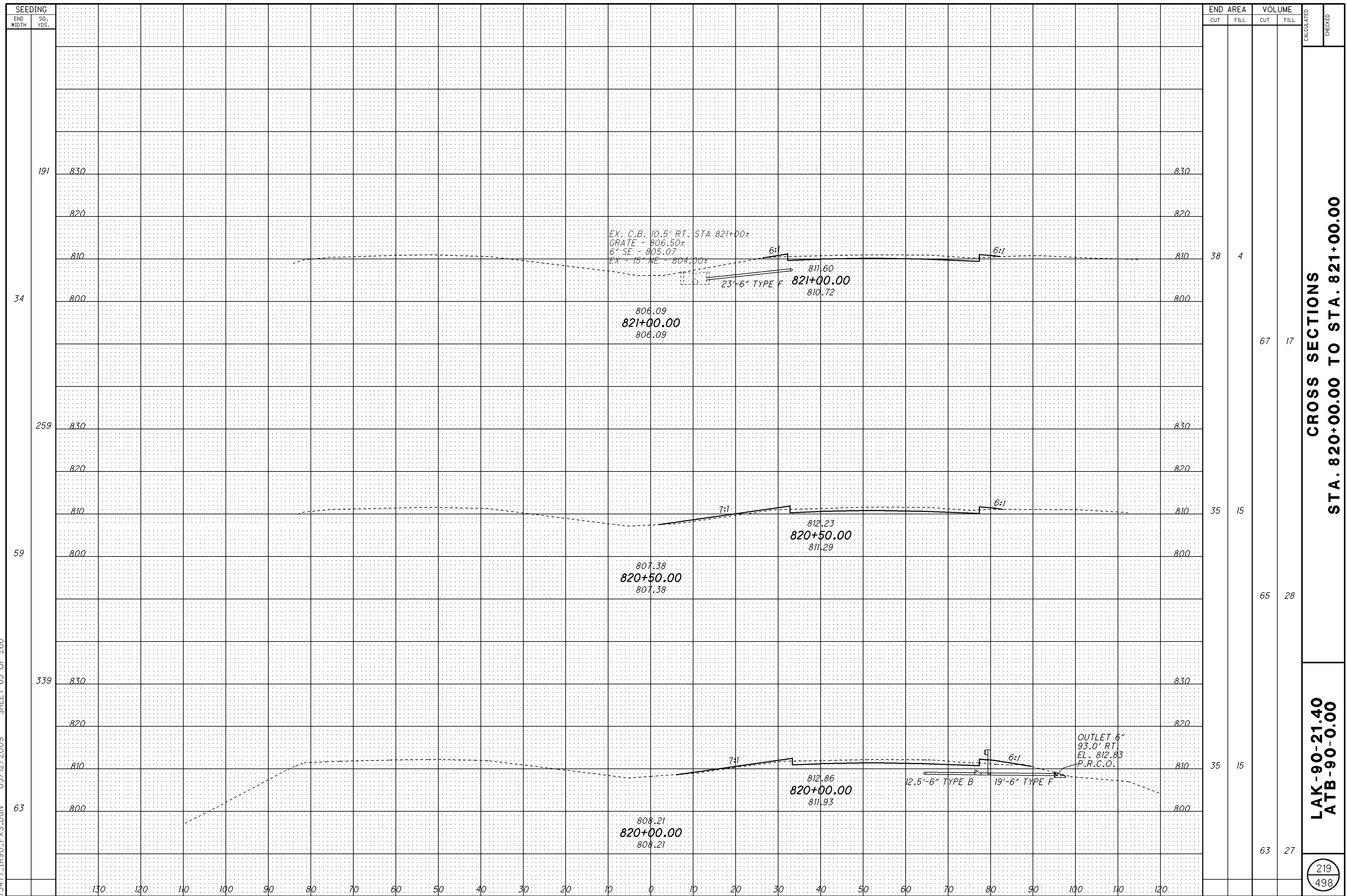


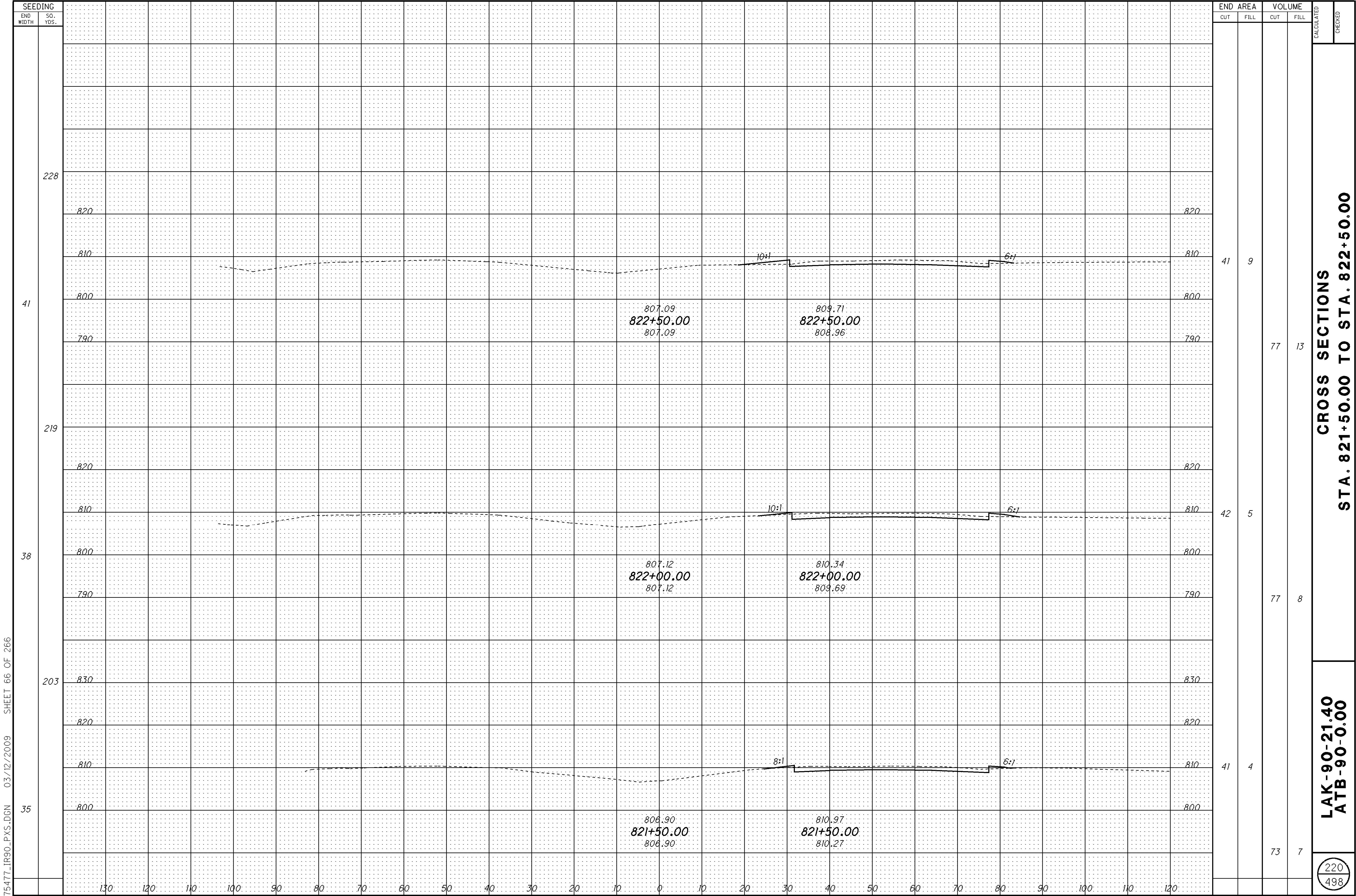


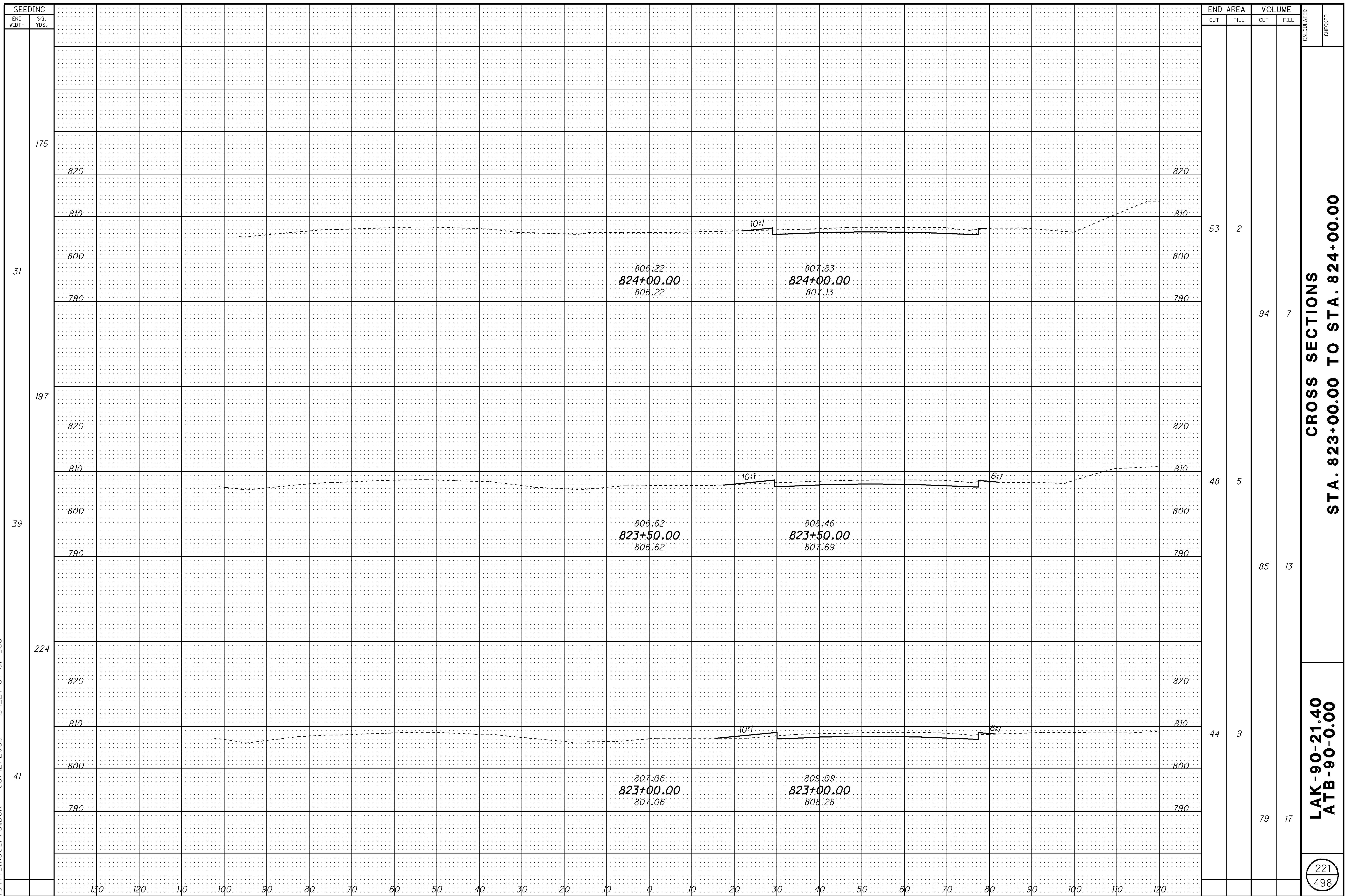




218
498

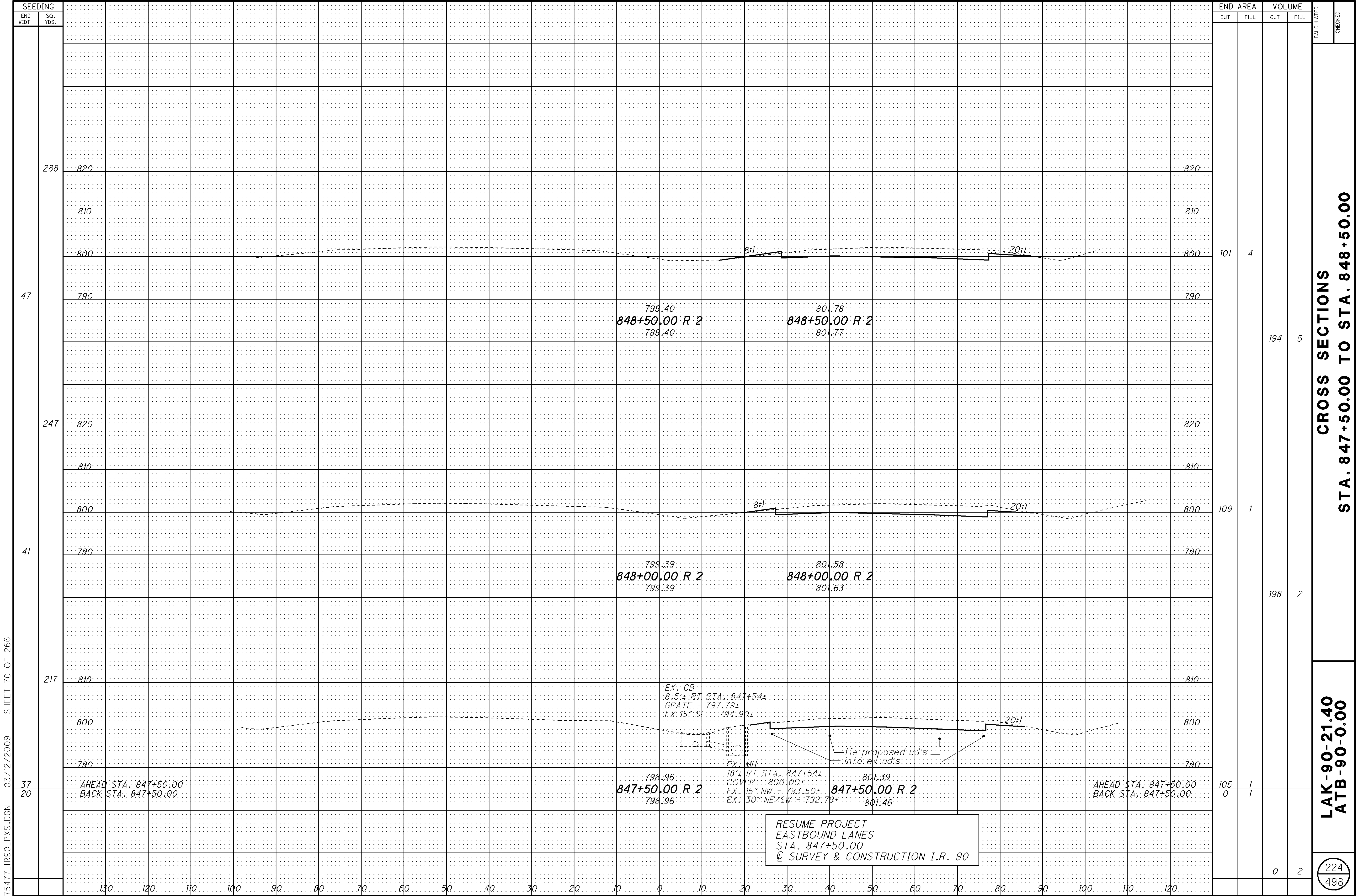






$$\frac{222}{498}$$

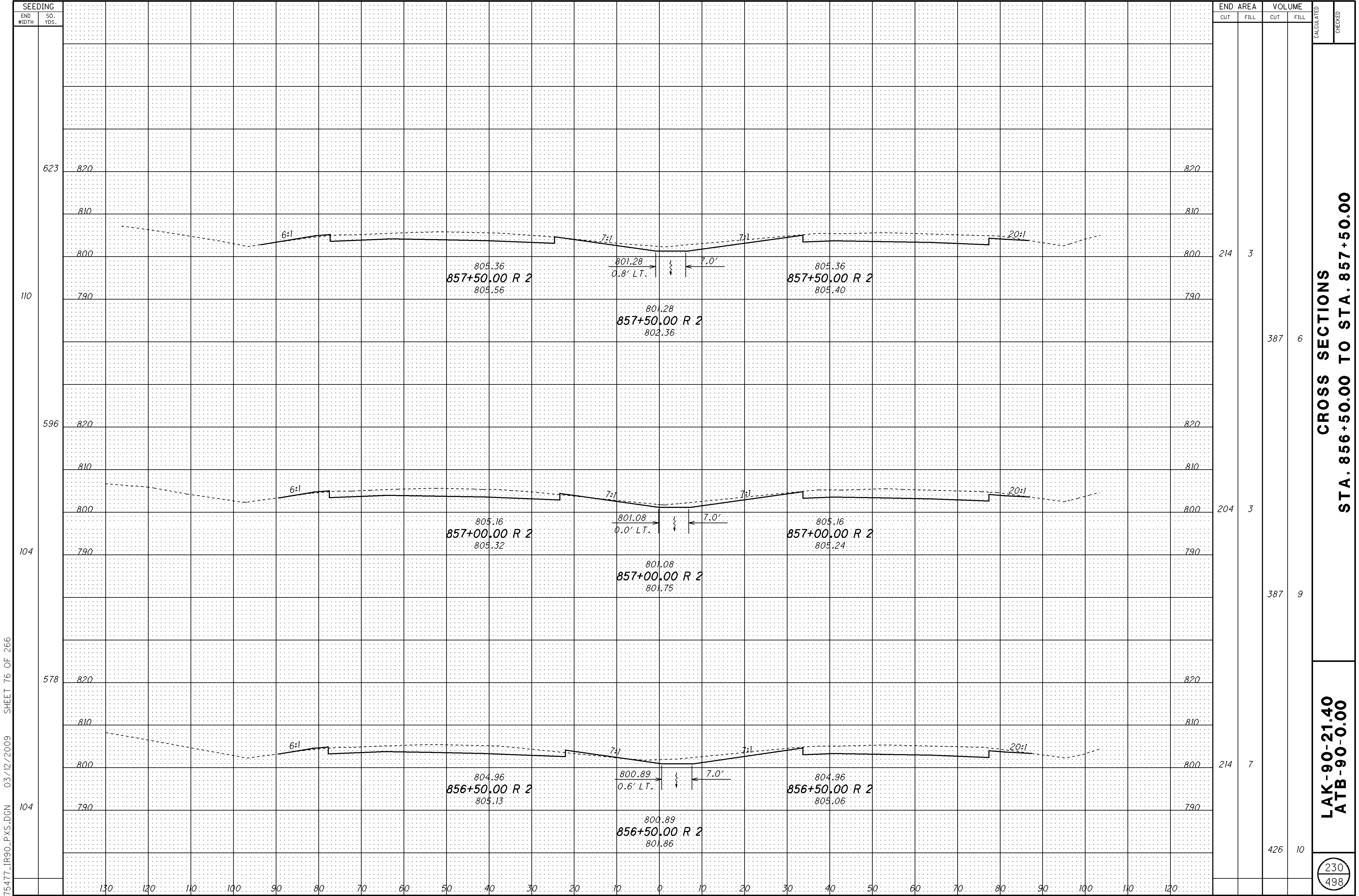
223
498



SEEDING																										END AREA		VOLUME		CALCULATED	CHECKED	
END WIDTH	SO. YDS.																									CUT	FILL	CUT	FILL			
63	350																									101	2	185	9	CROSS SECTIONS STA. 849+00.00 TO STA. 850+00.00	LAK-90-21.40 ATB-90-0.00	225 498
	340																									99	8	184	12			
323																									99	5	186	9				
56																																
		130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120					

$$\frac{226}{498}$$

[illegible]

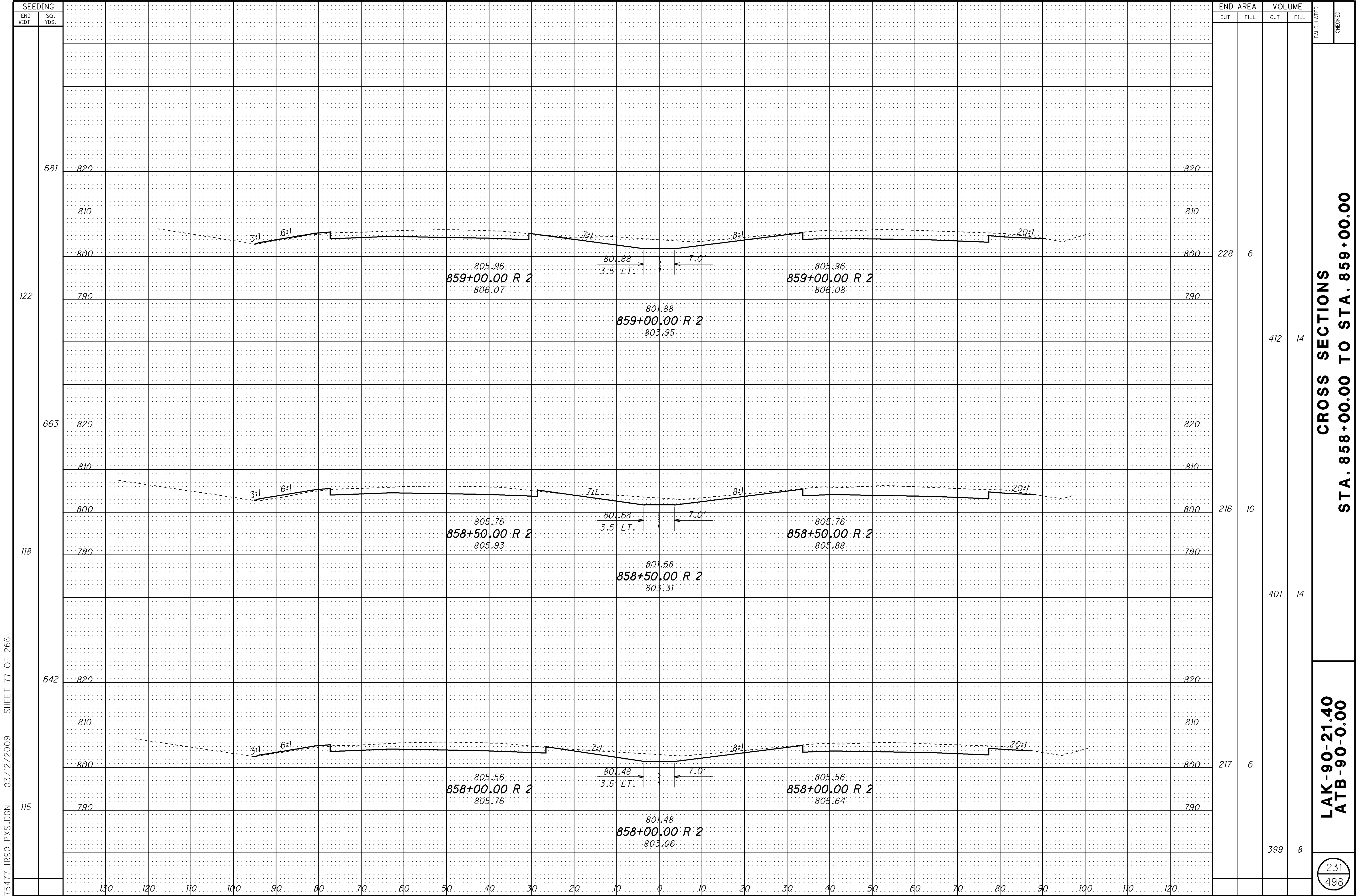


CROSS SECTIONS

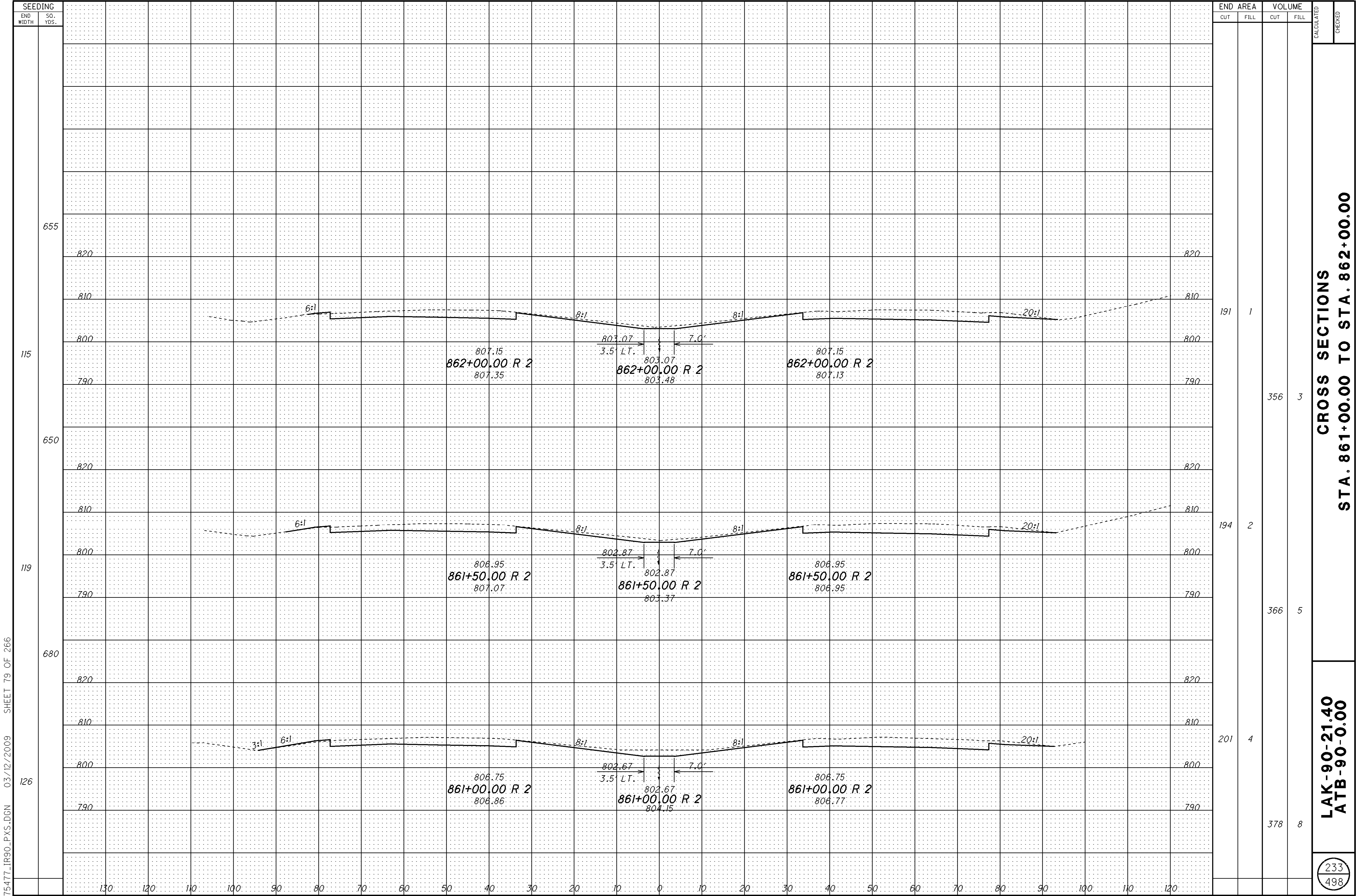
STA. 856+50.00 TO STA. 857+50.00

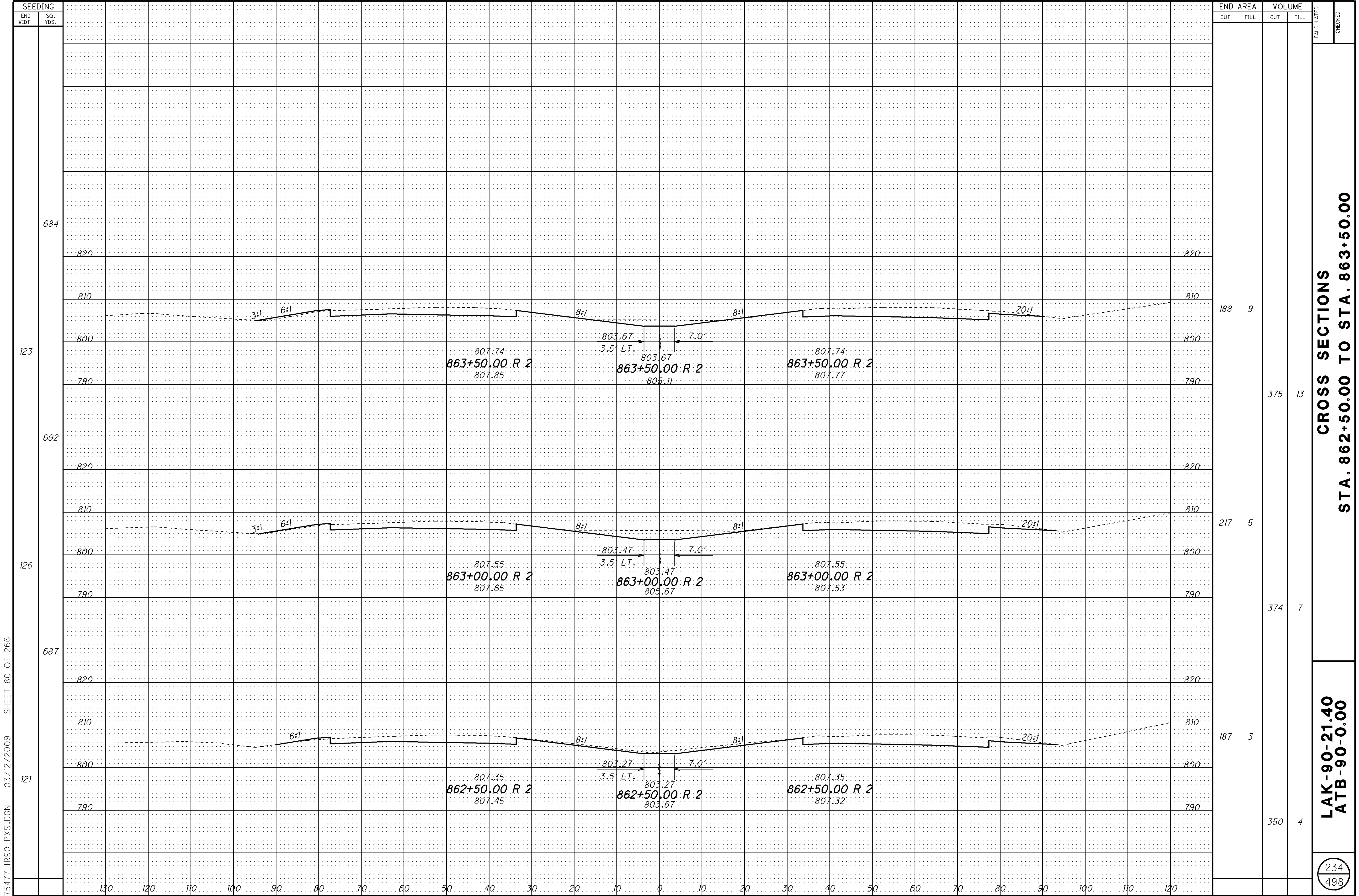
LAK-90-21.40

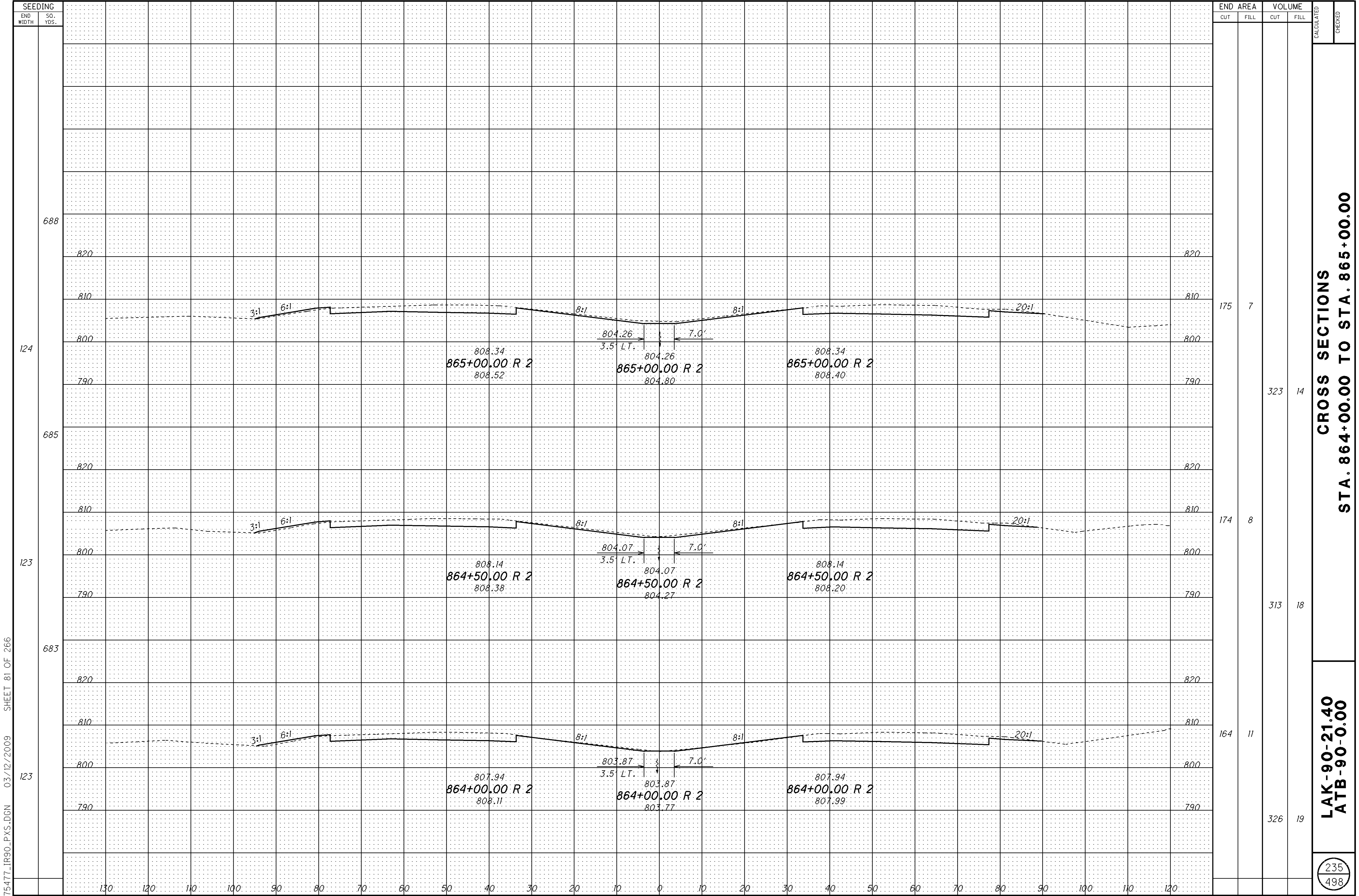
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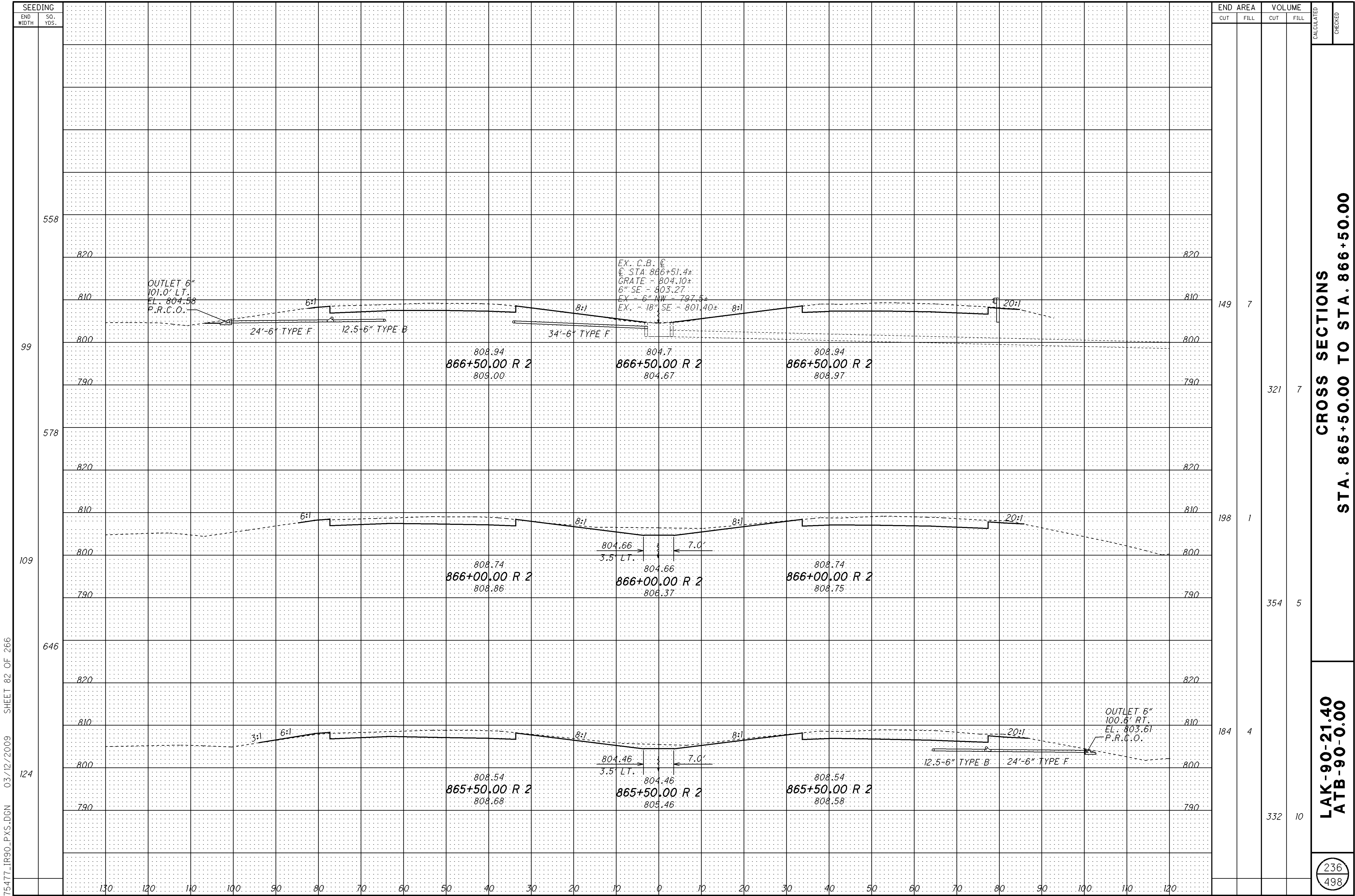


$$\frac{232}{498}$$







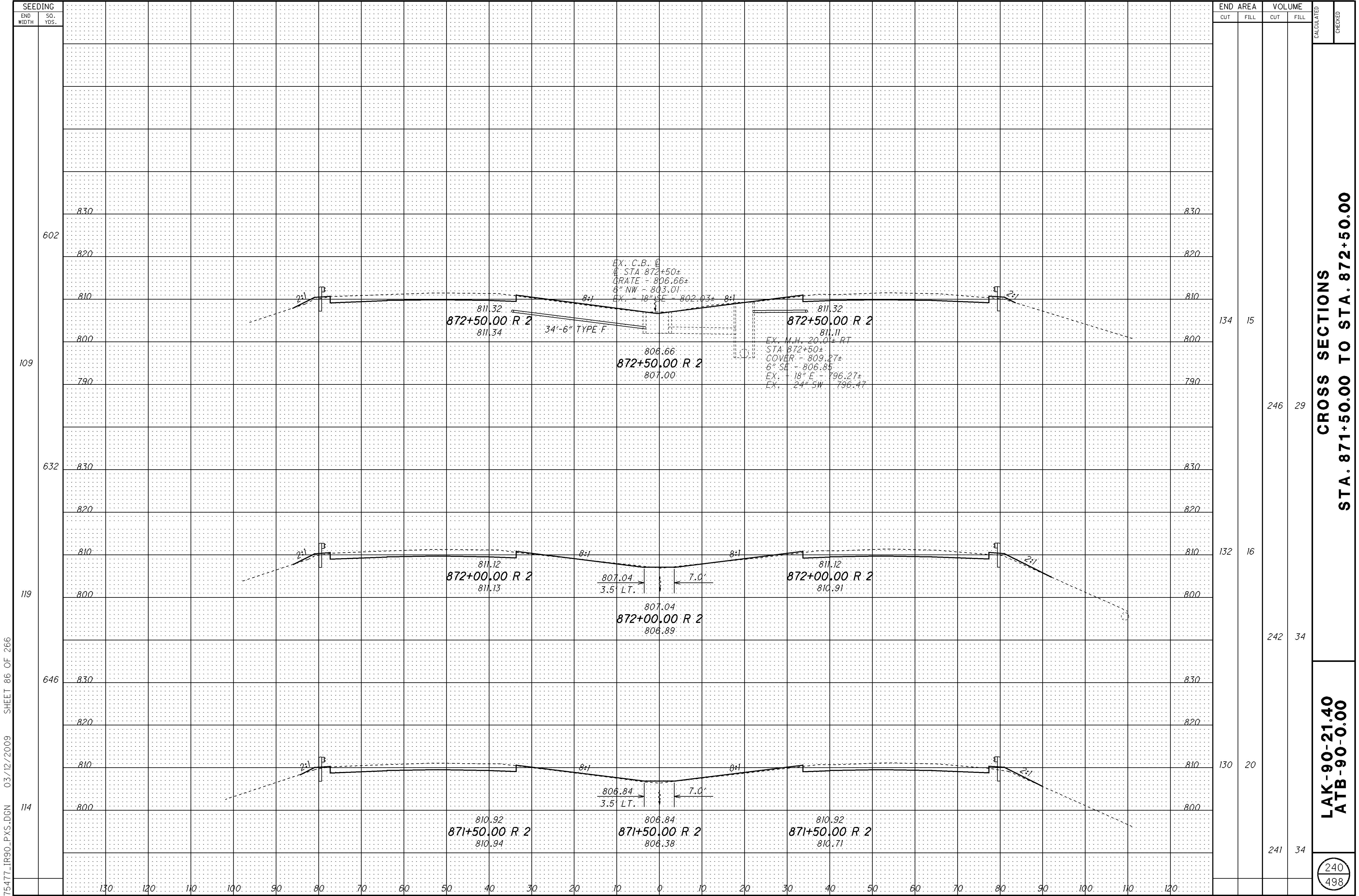


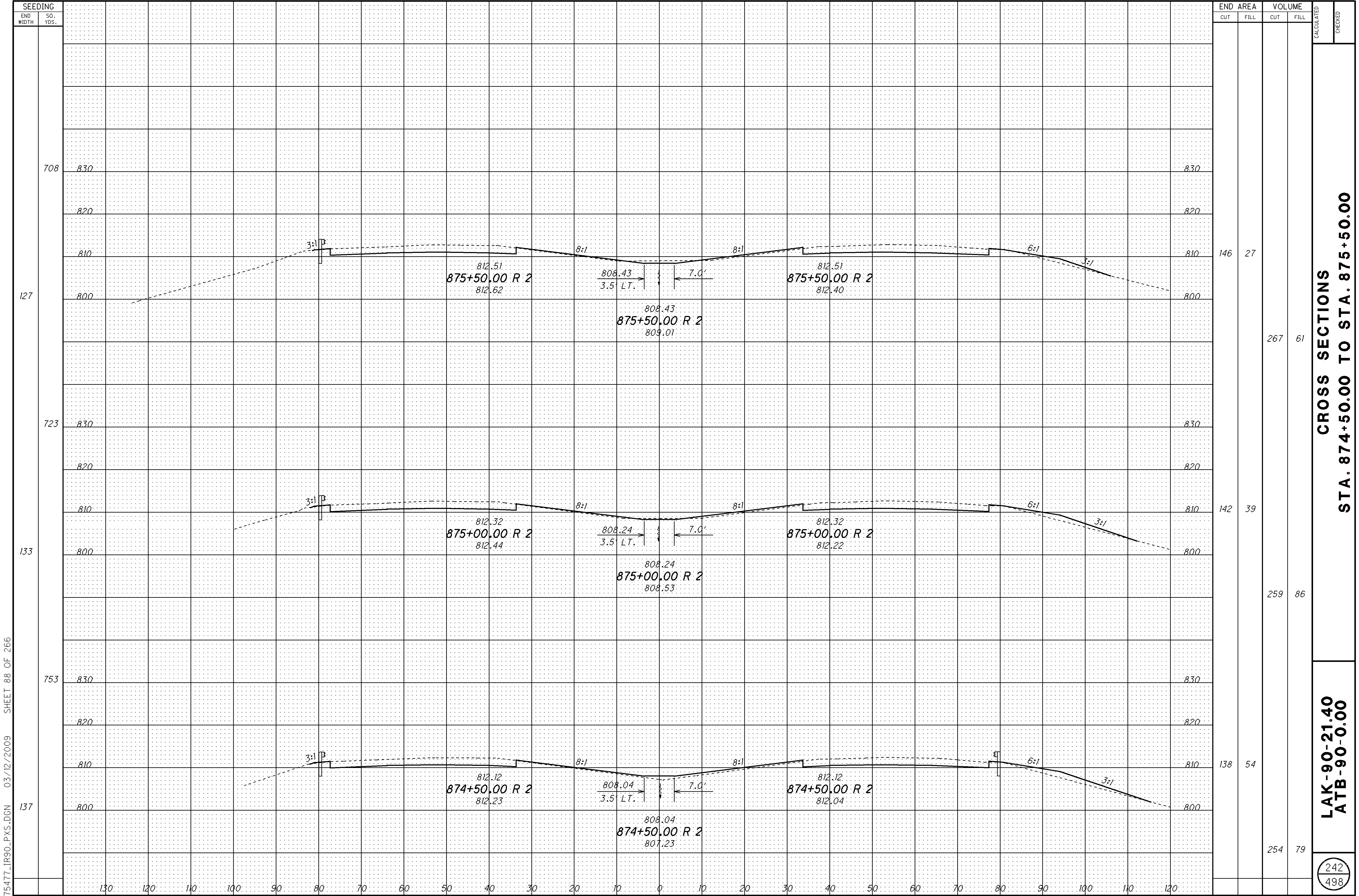
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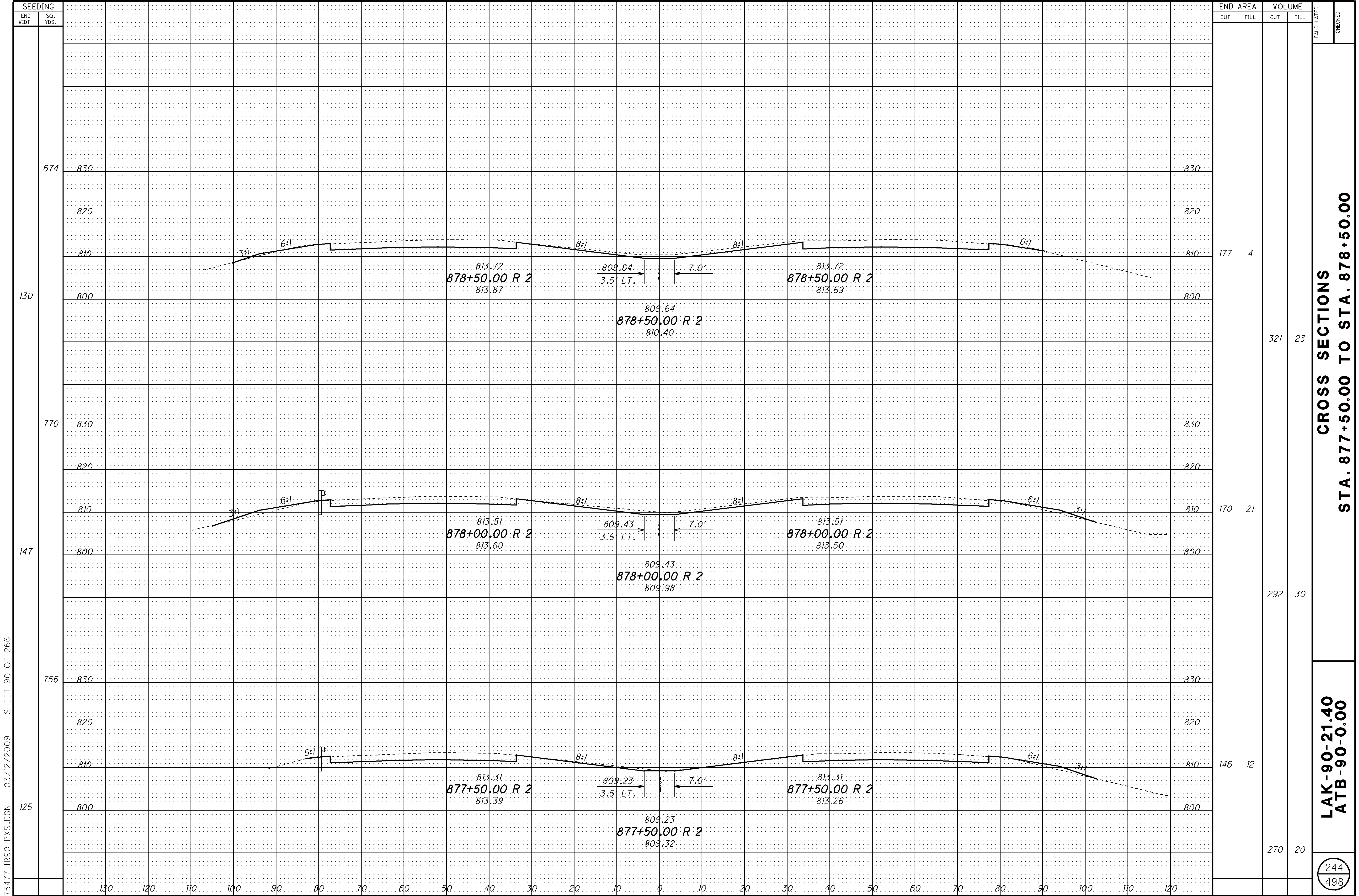
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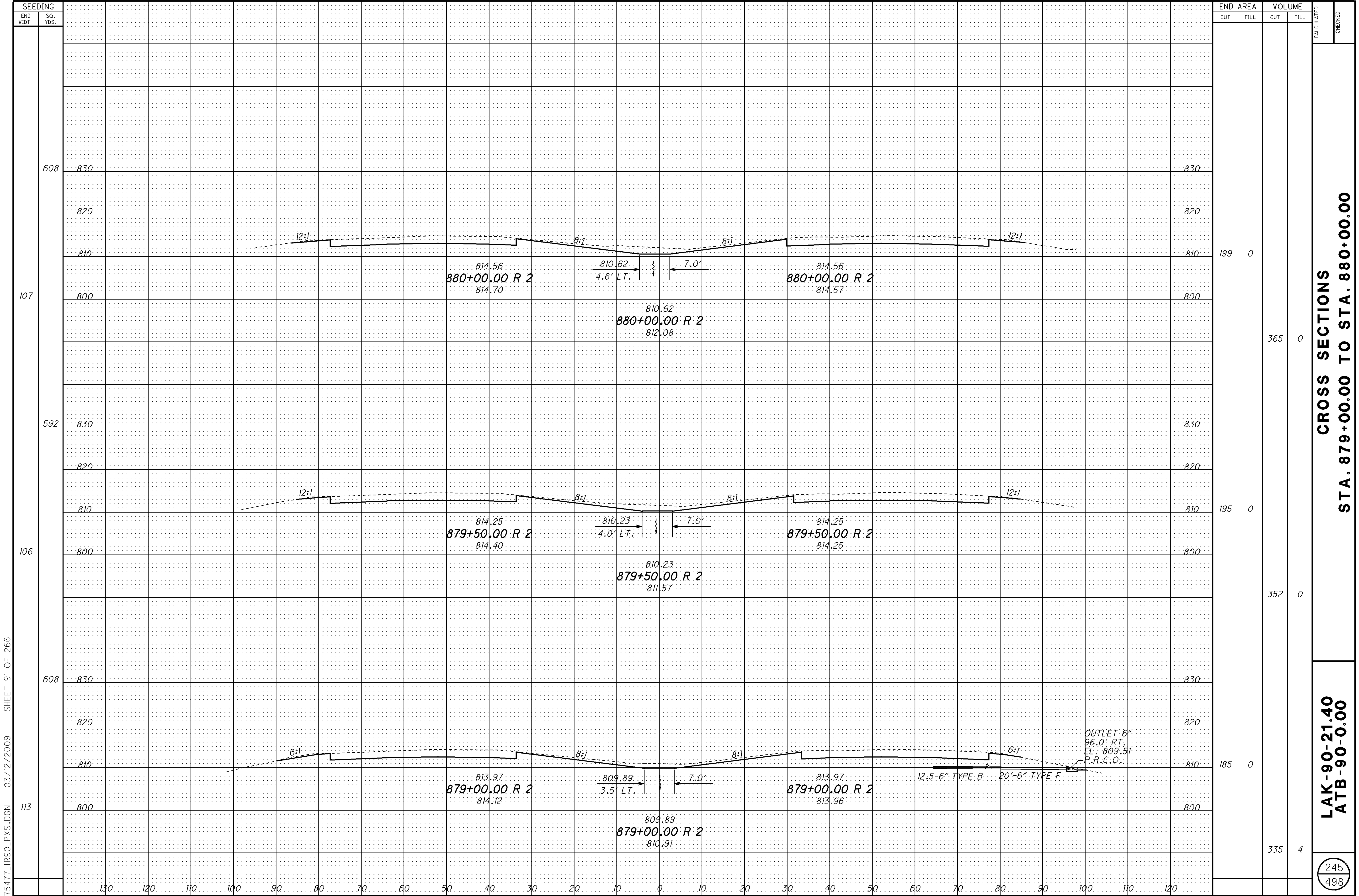
239 498 LAK-90-21.40 ATB-90-0.00	CROSS SECTIONS STA. 870+00.00 TO STA. 871+00.00		CALCULATED
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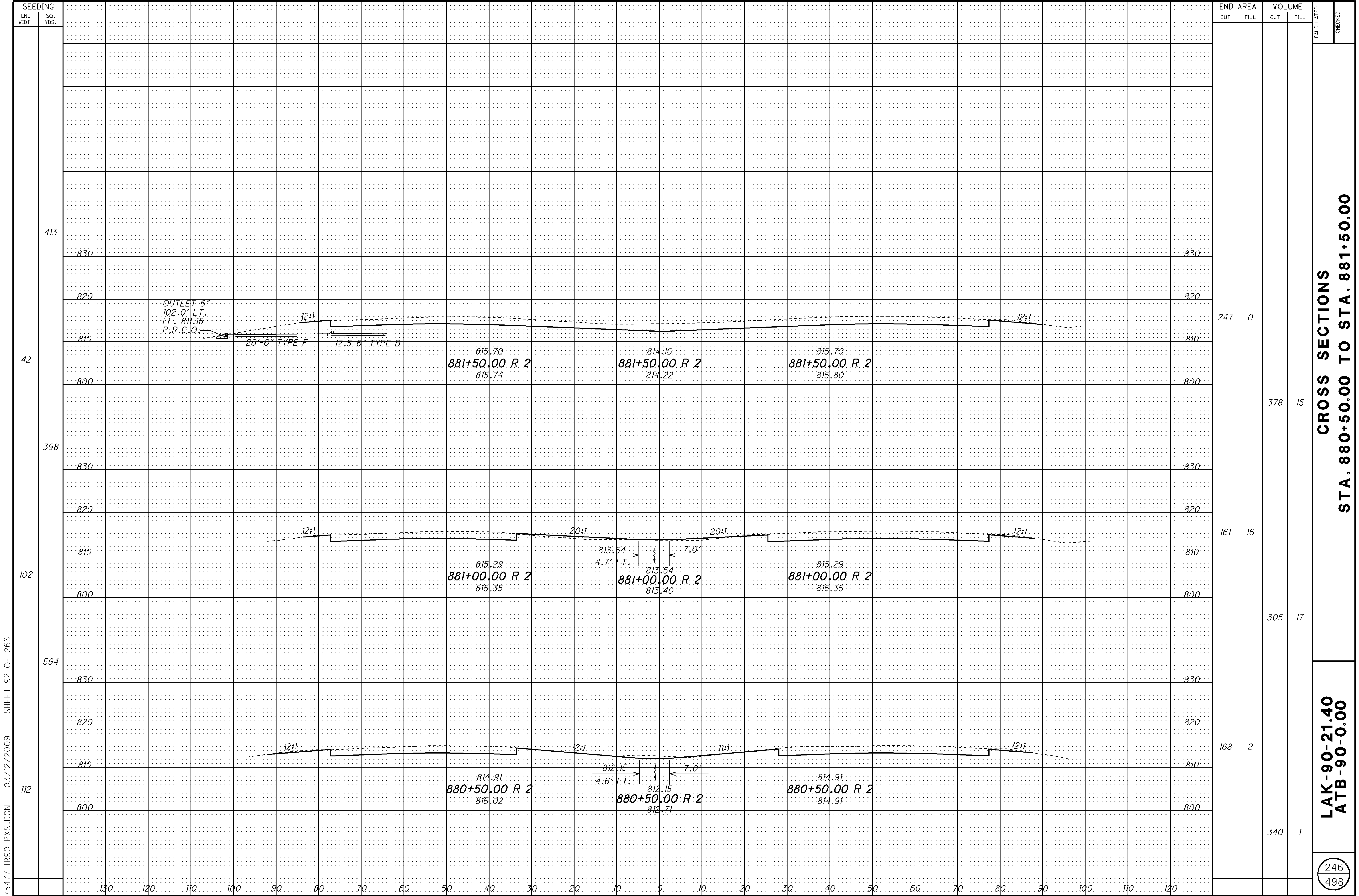


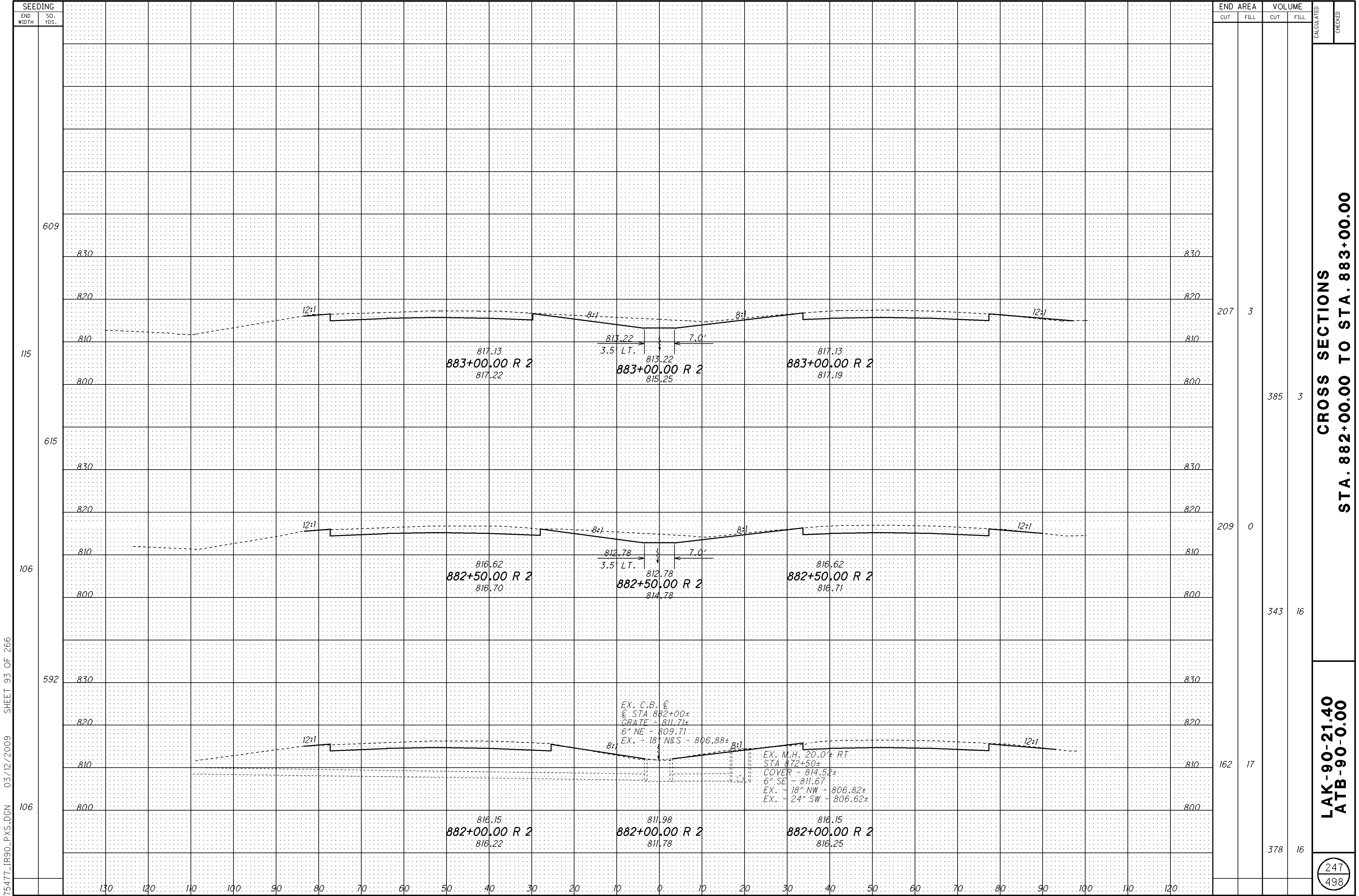


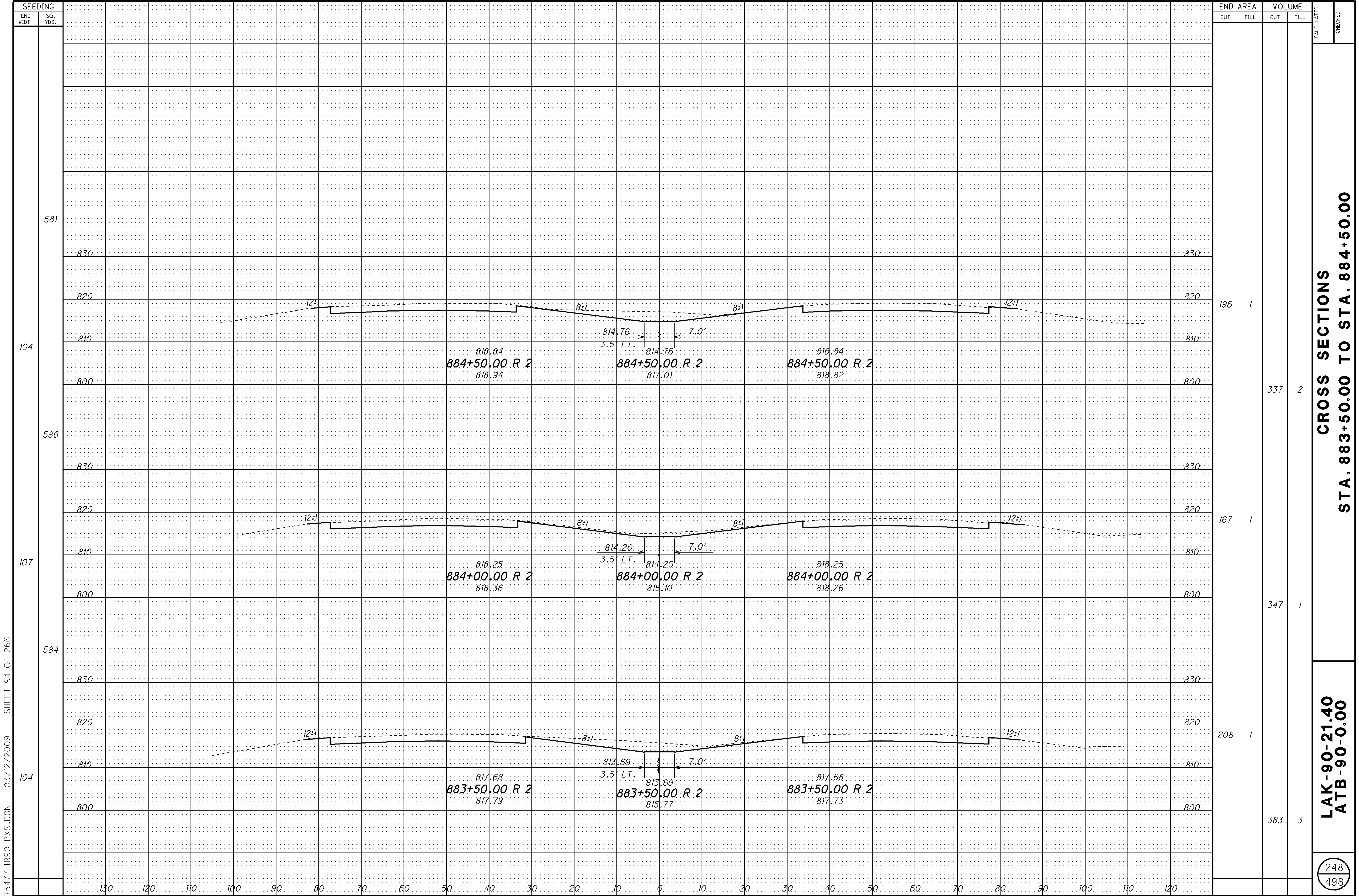
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
699	126	146	10	308	20	CROSS SECTIONS STA. 876+00.00 TO STA. 877+00.00	
708	128	186	11	313	31		
712	128	152	22	276	45		
						243	498



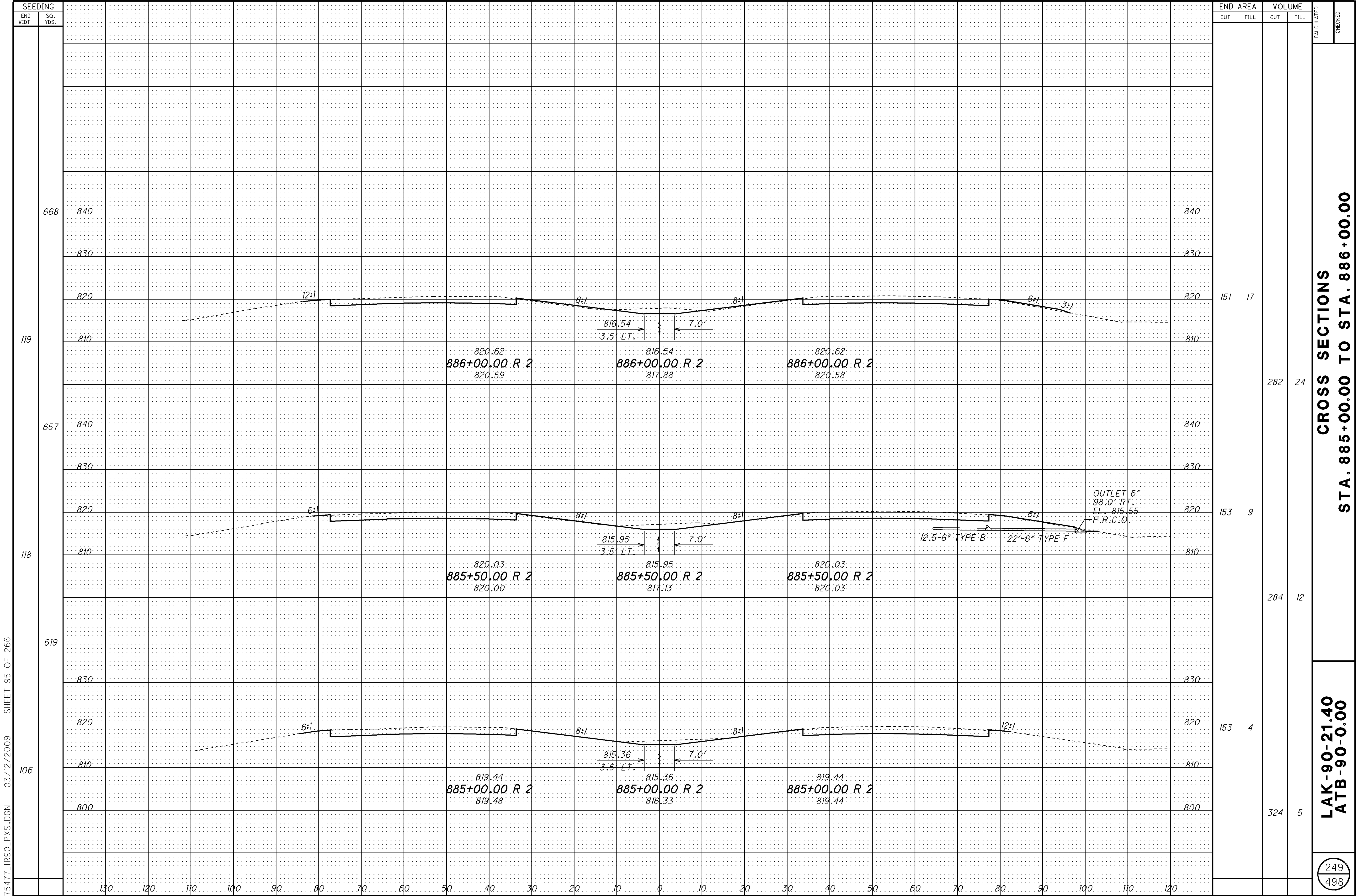


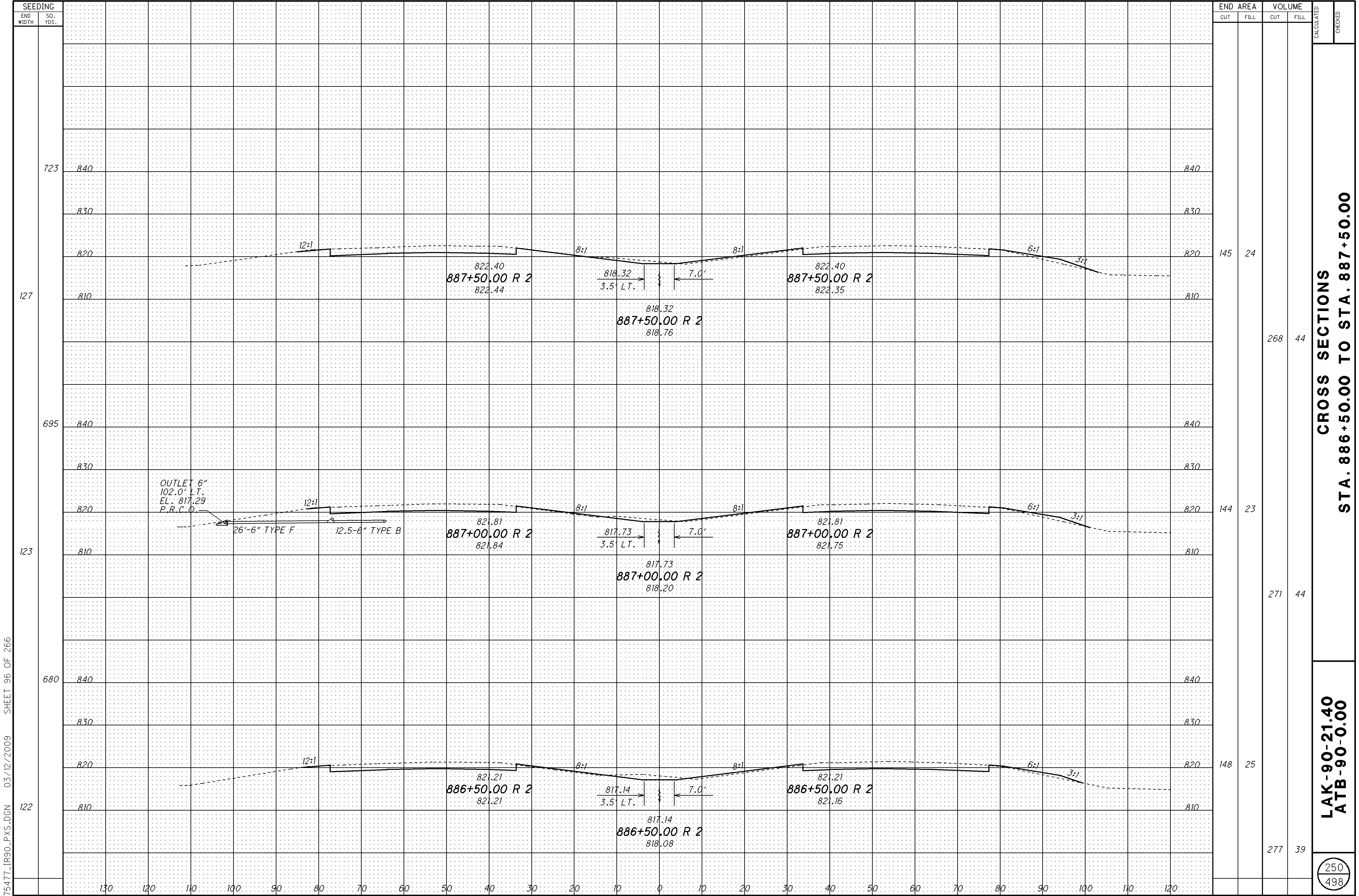


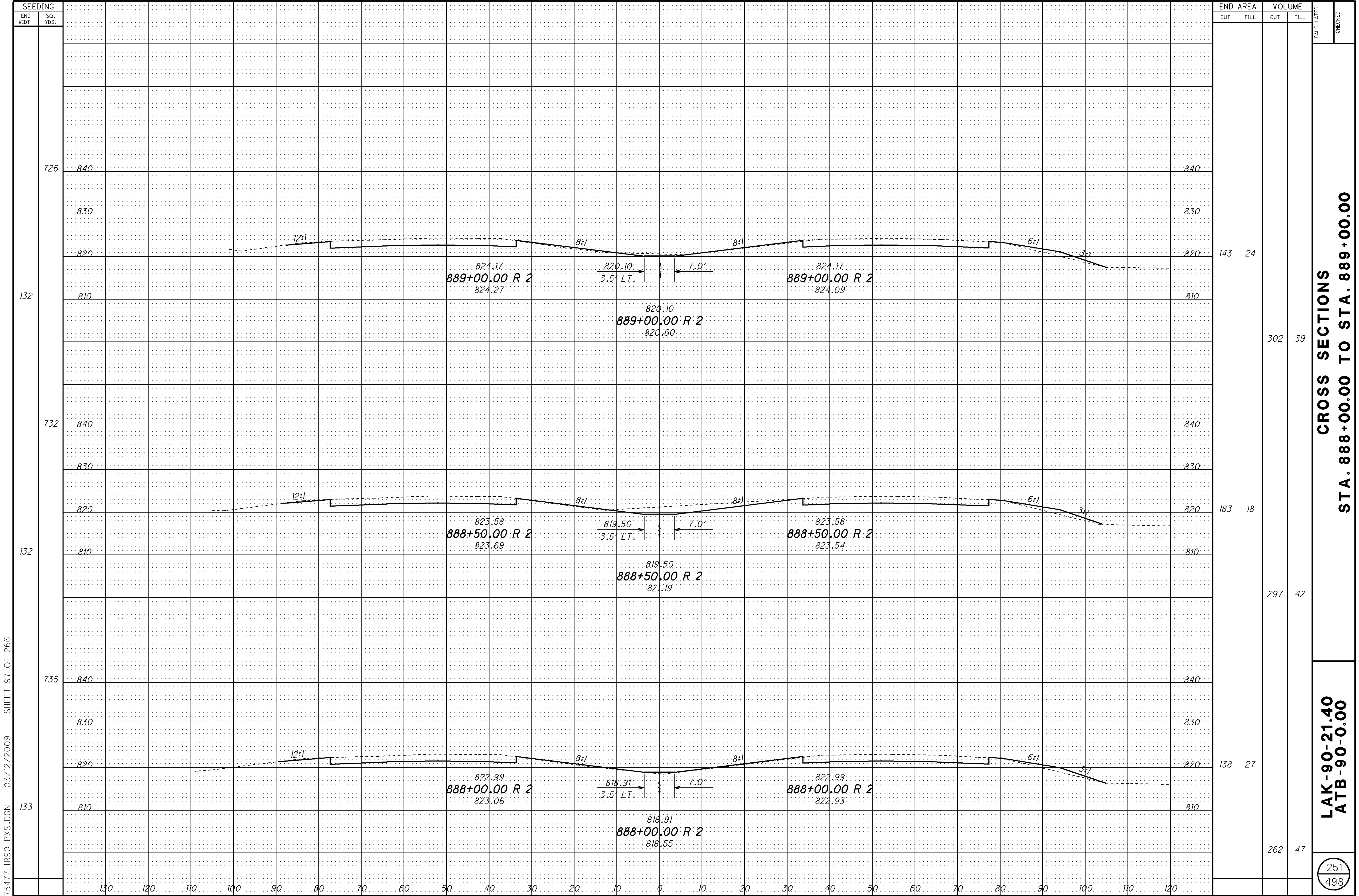




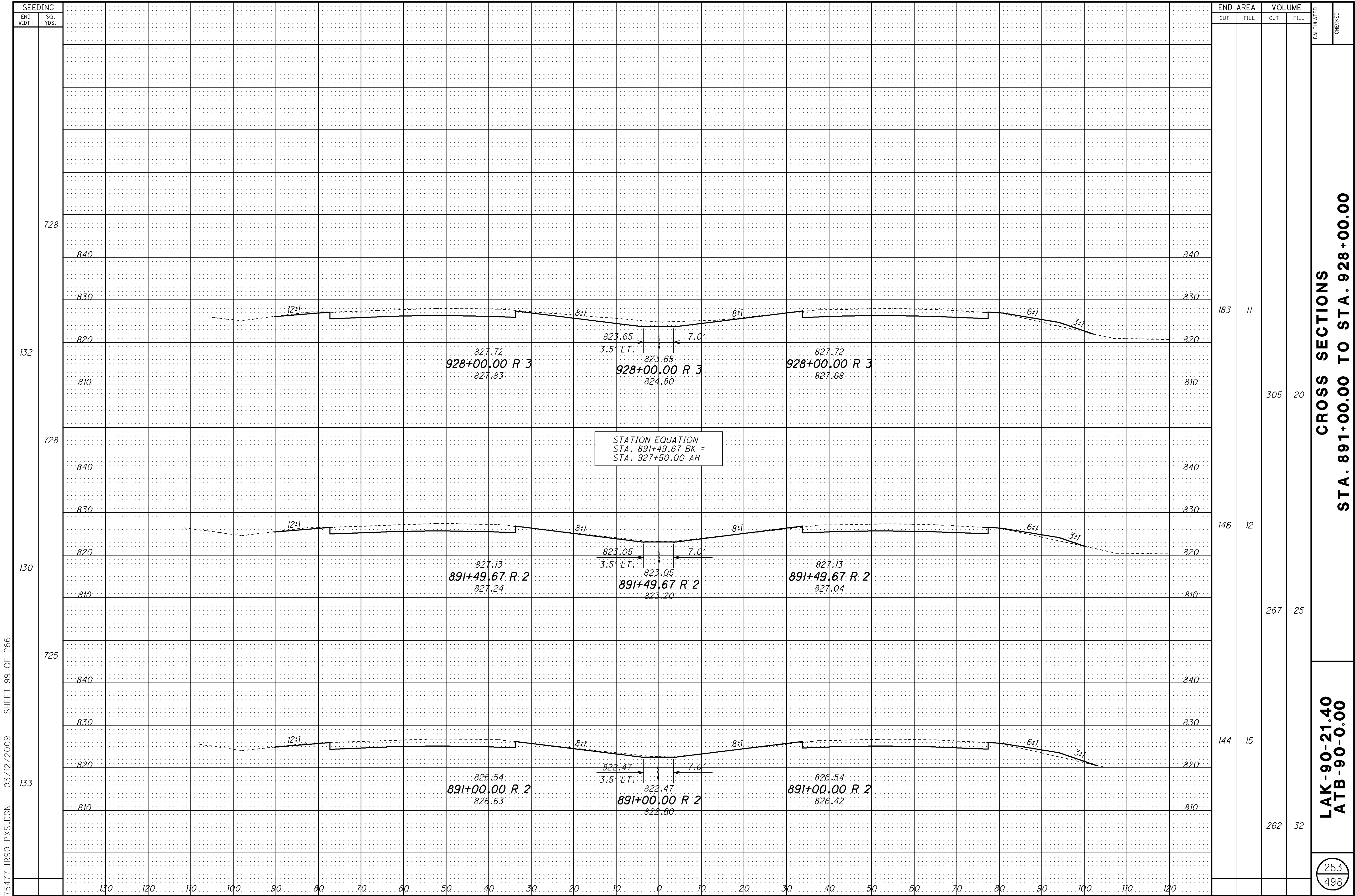
75477_IR90_PXS.DGN 03/12/2009 SHEET 94 OF 266

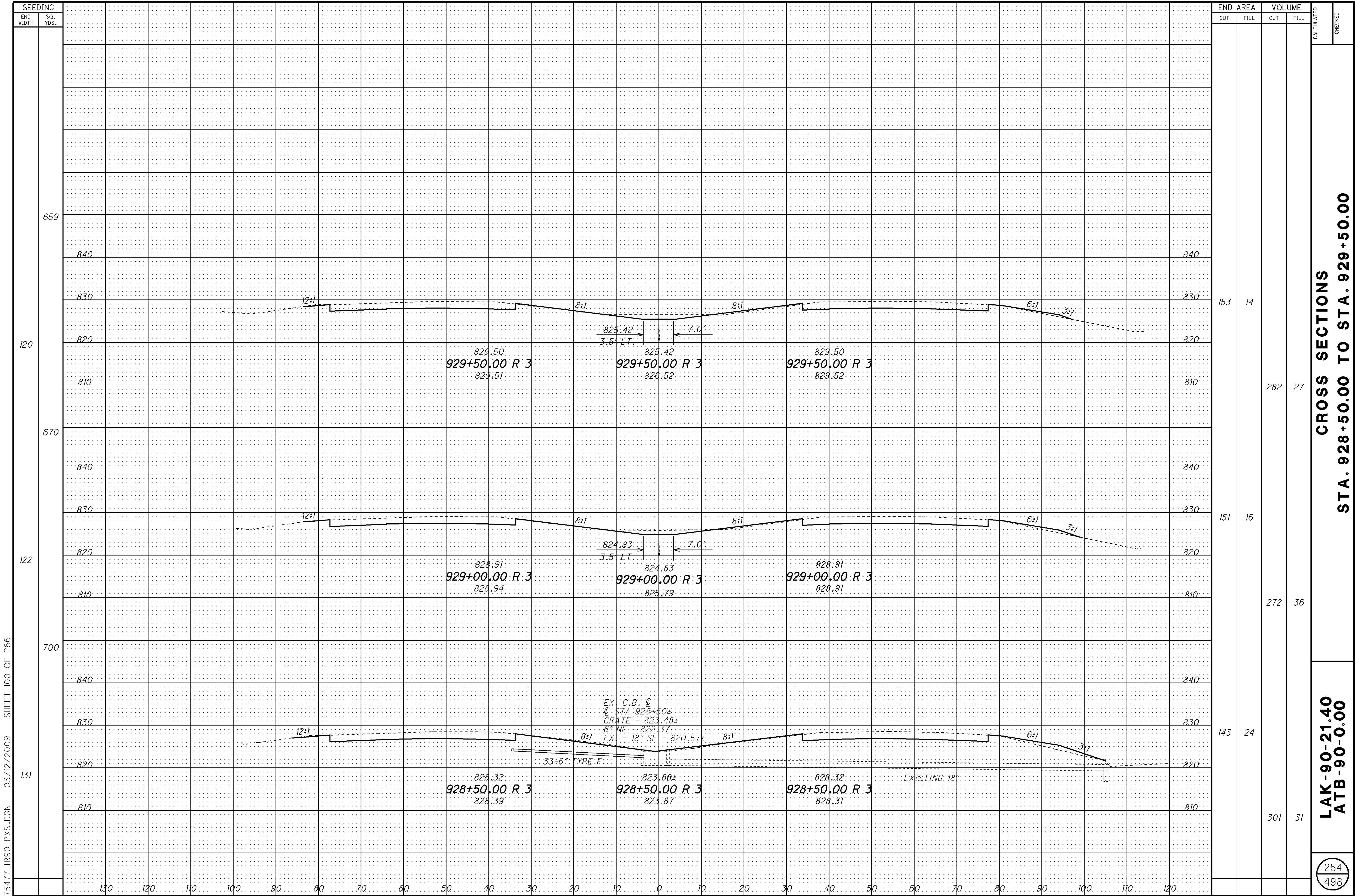






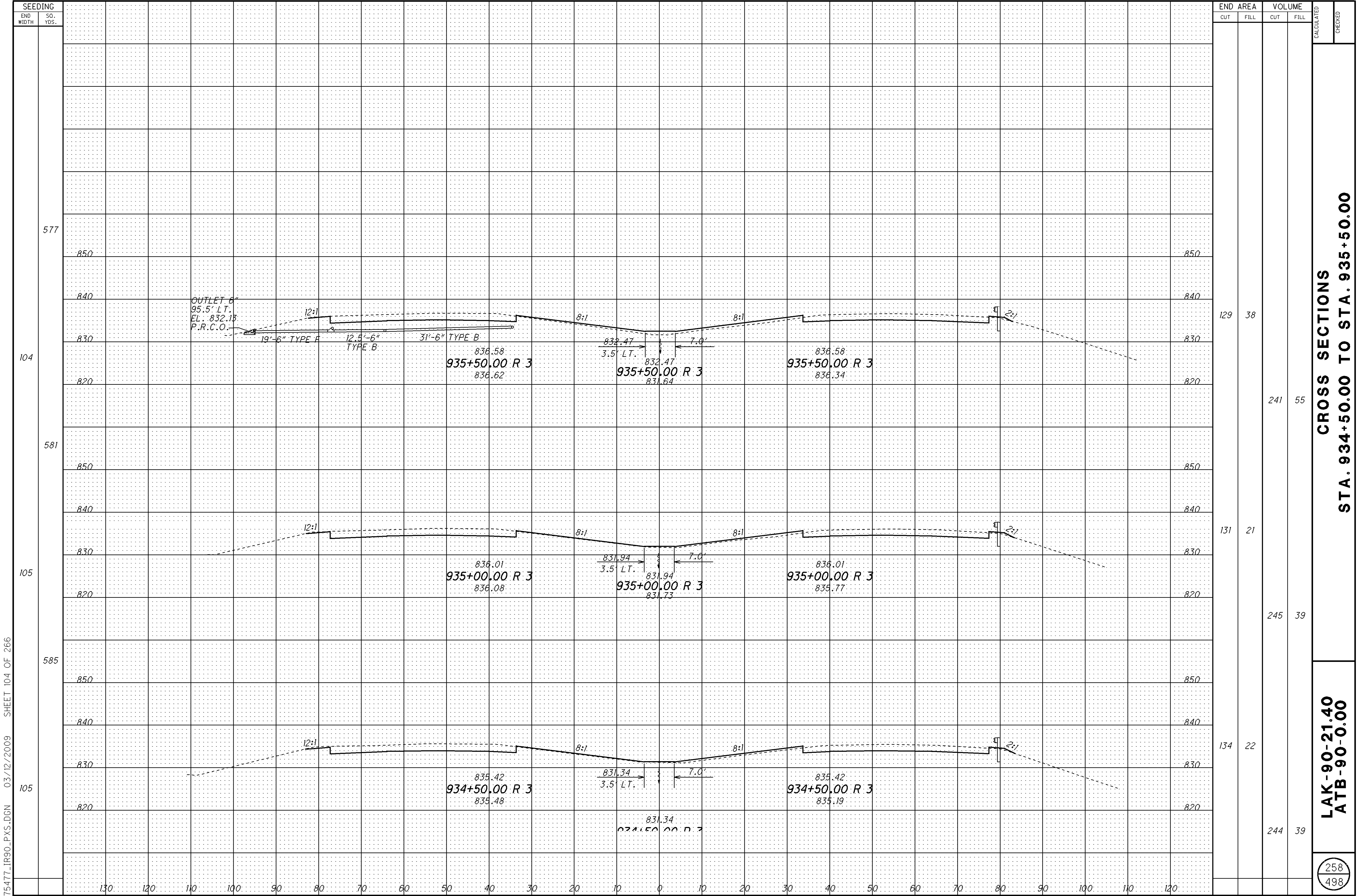
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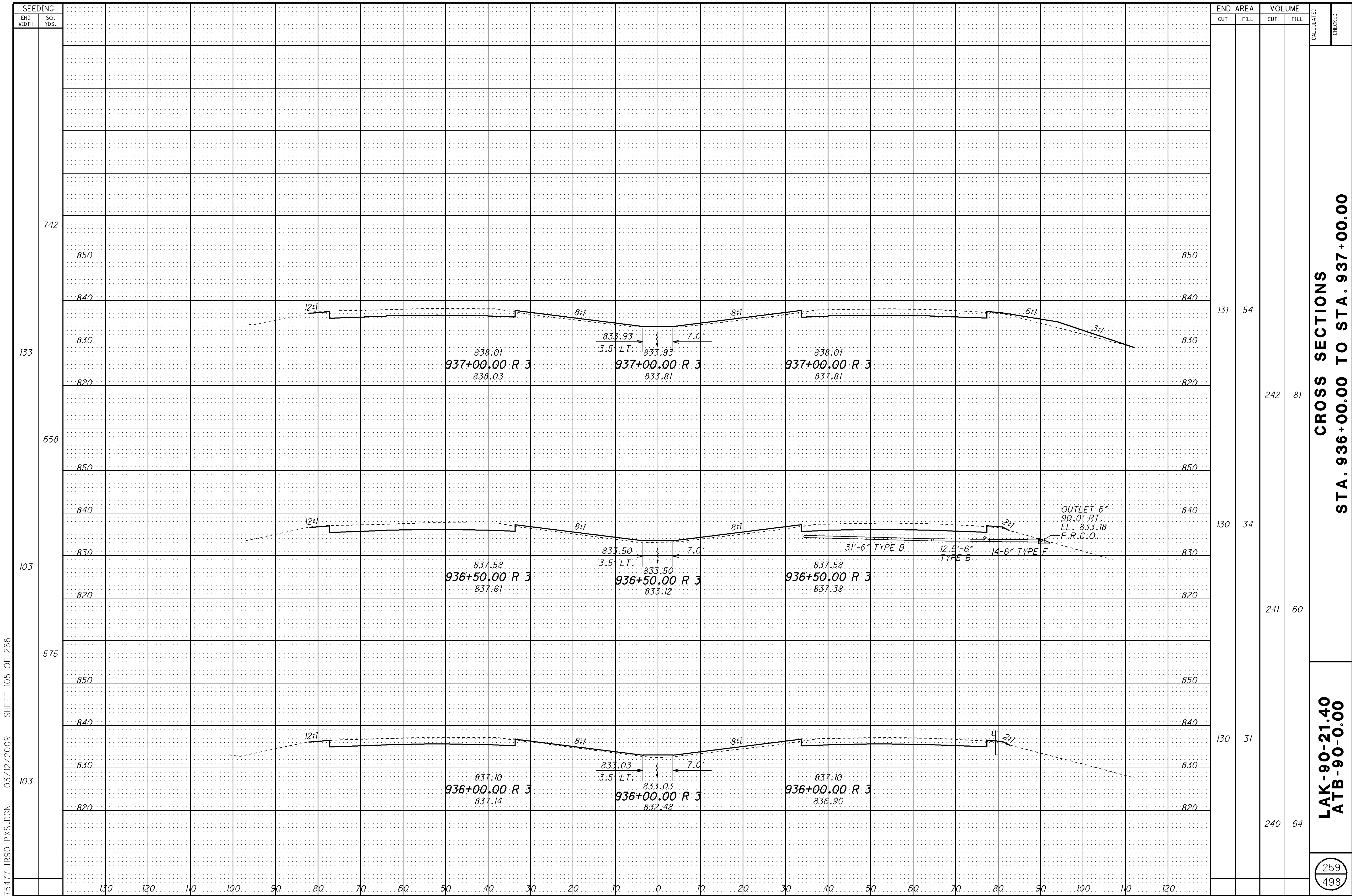


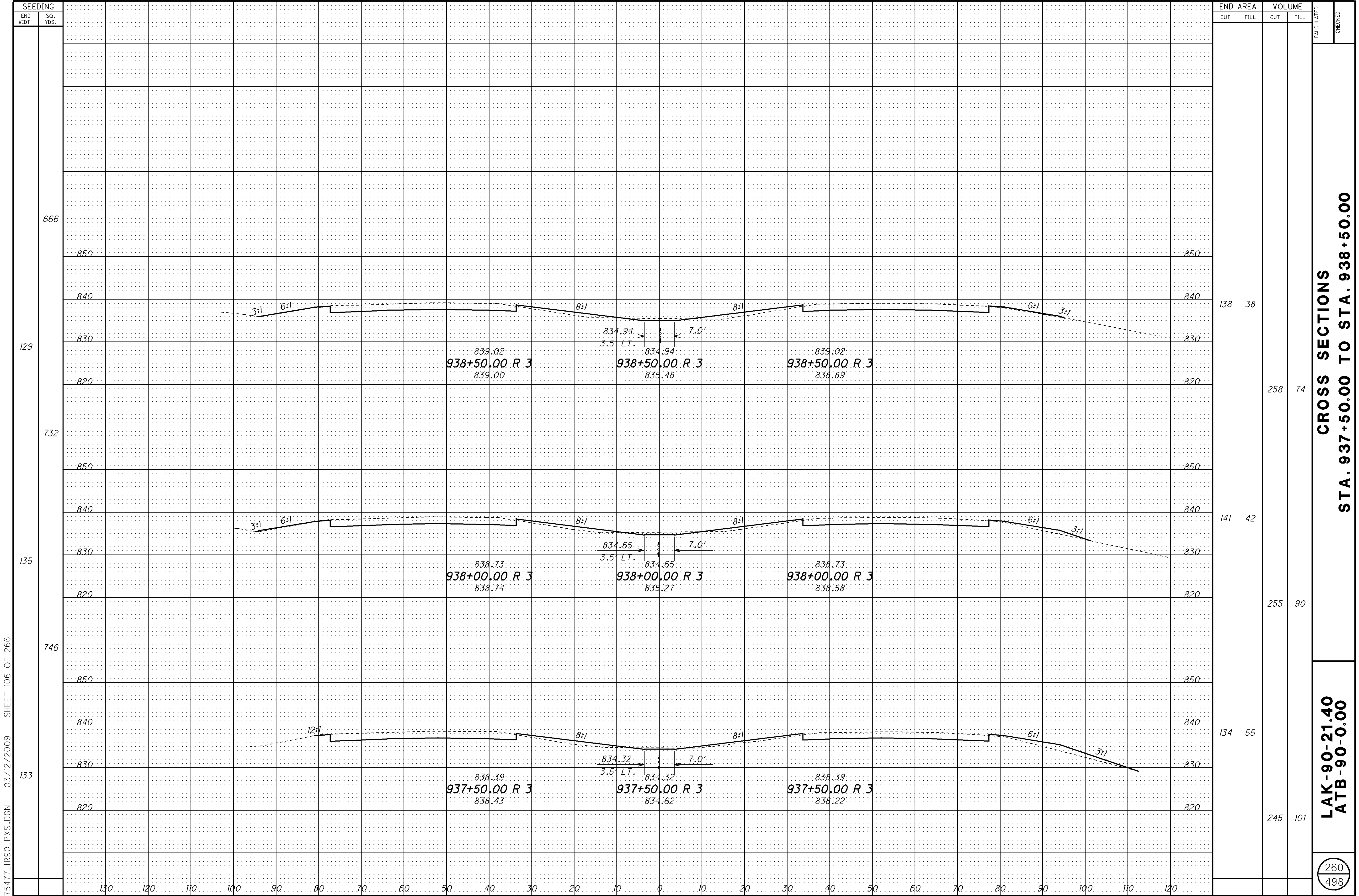


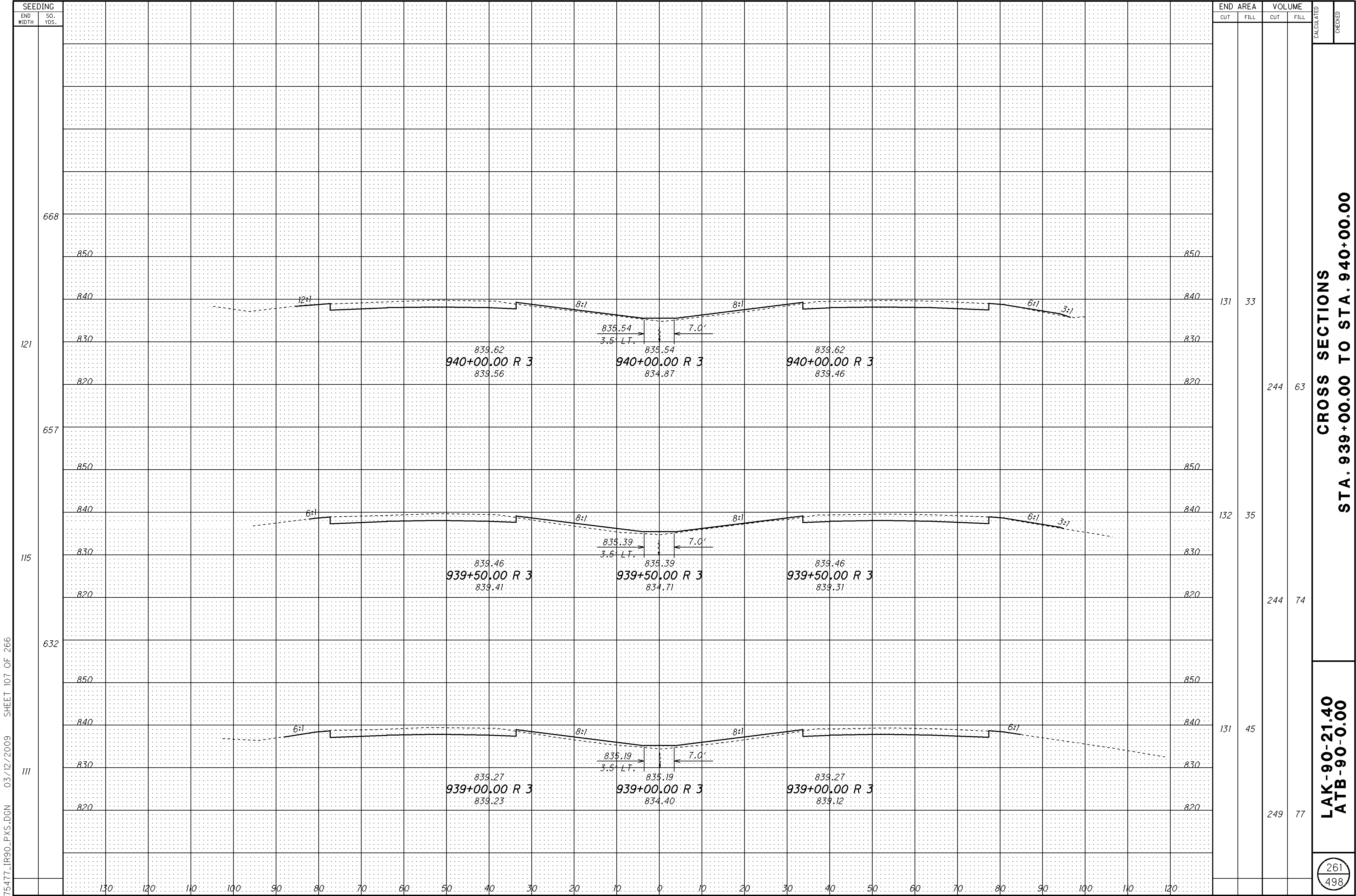
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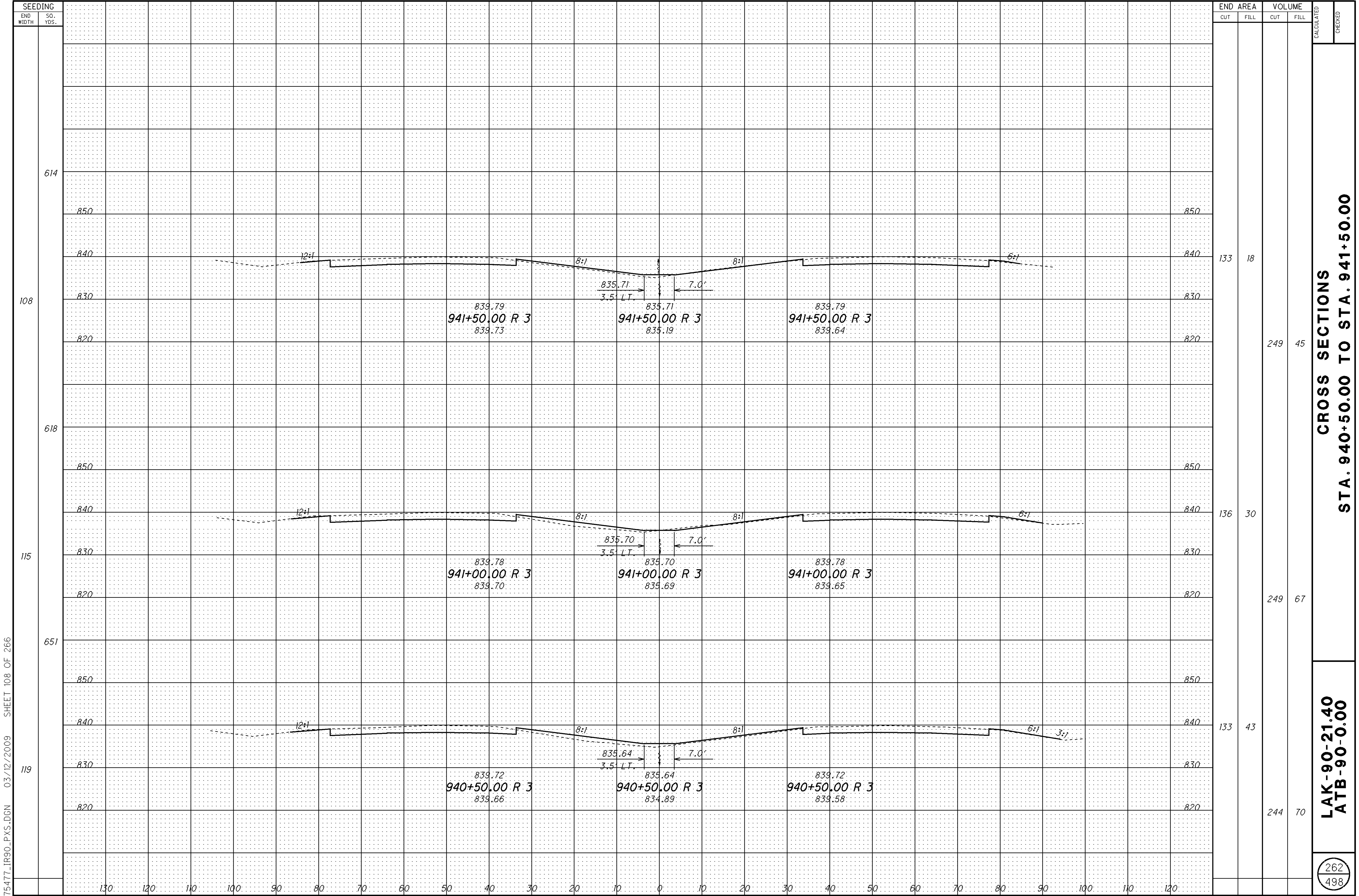
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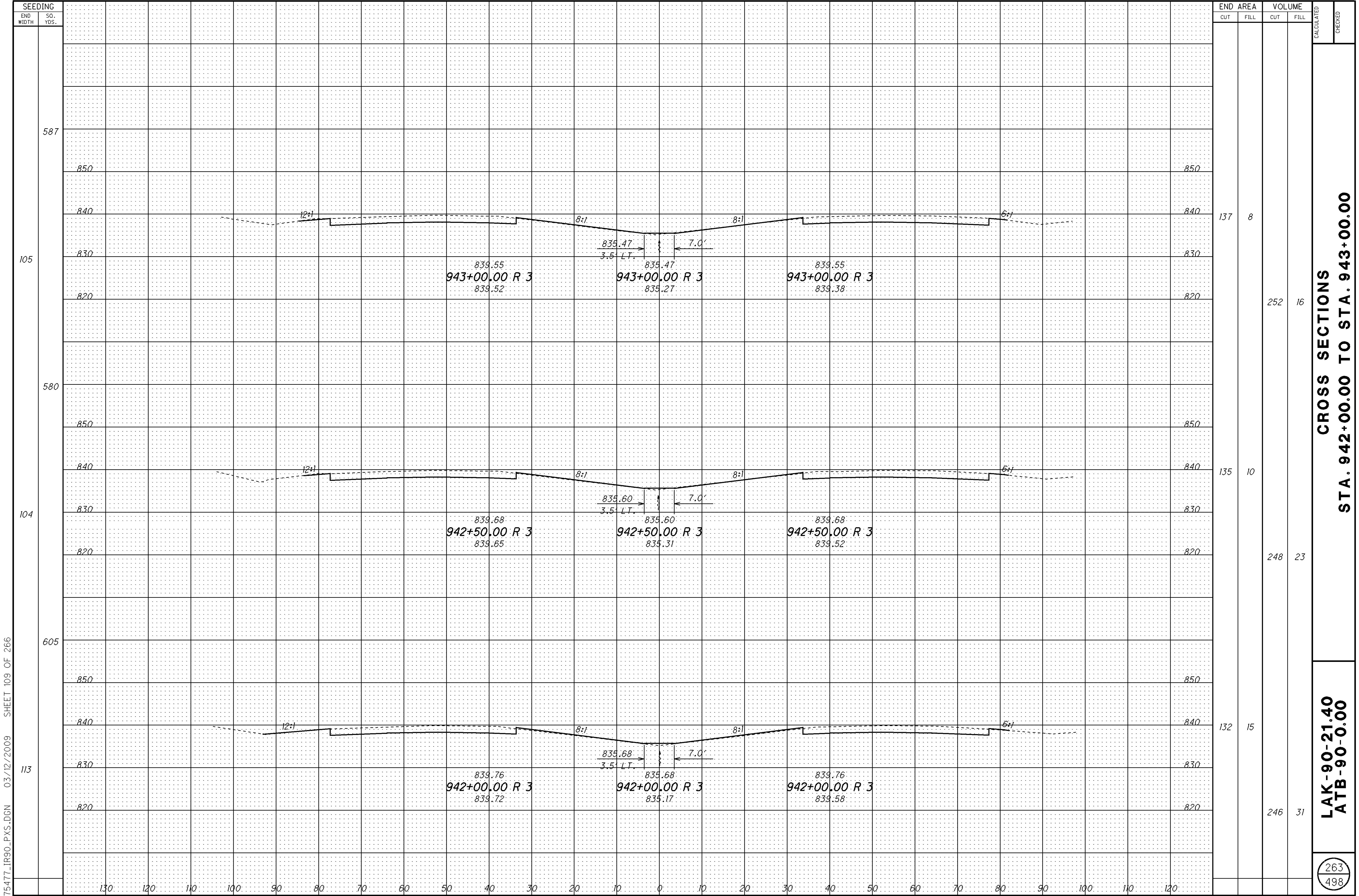




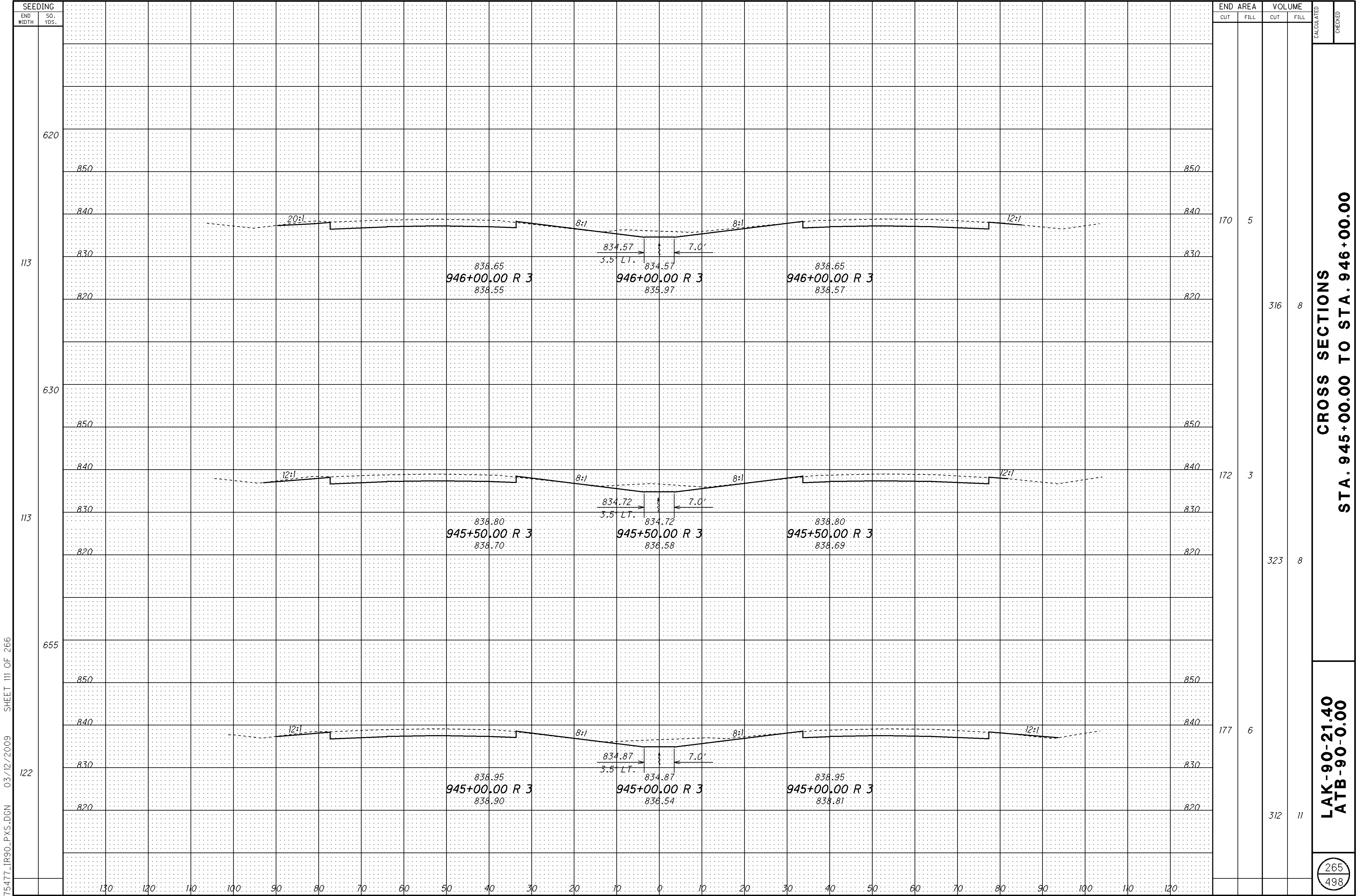


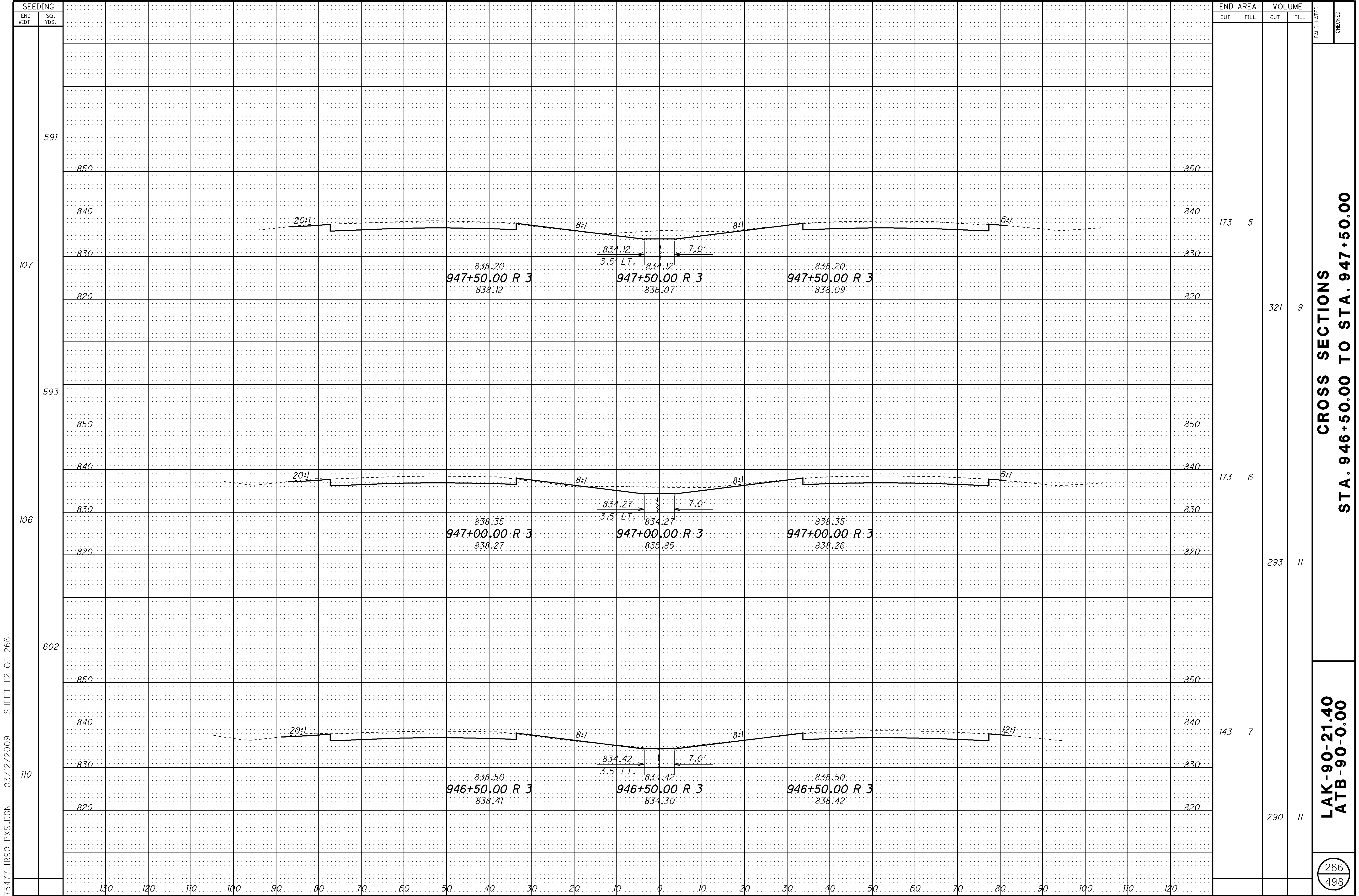






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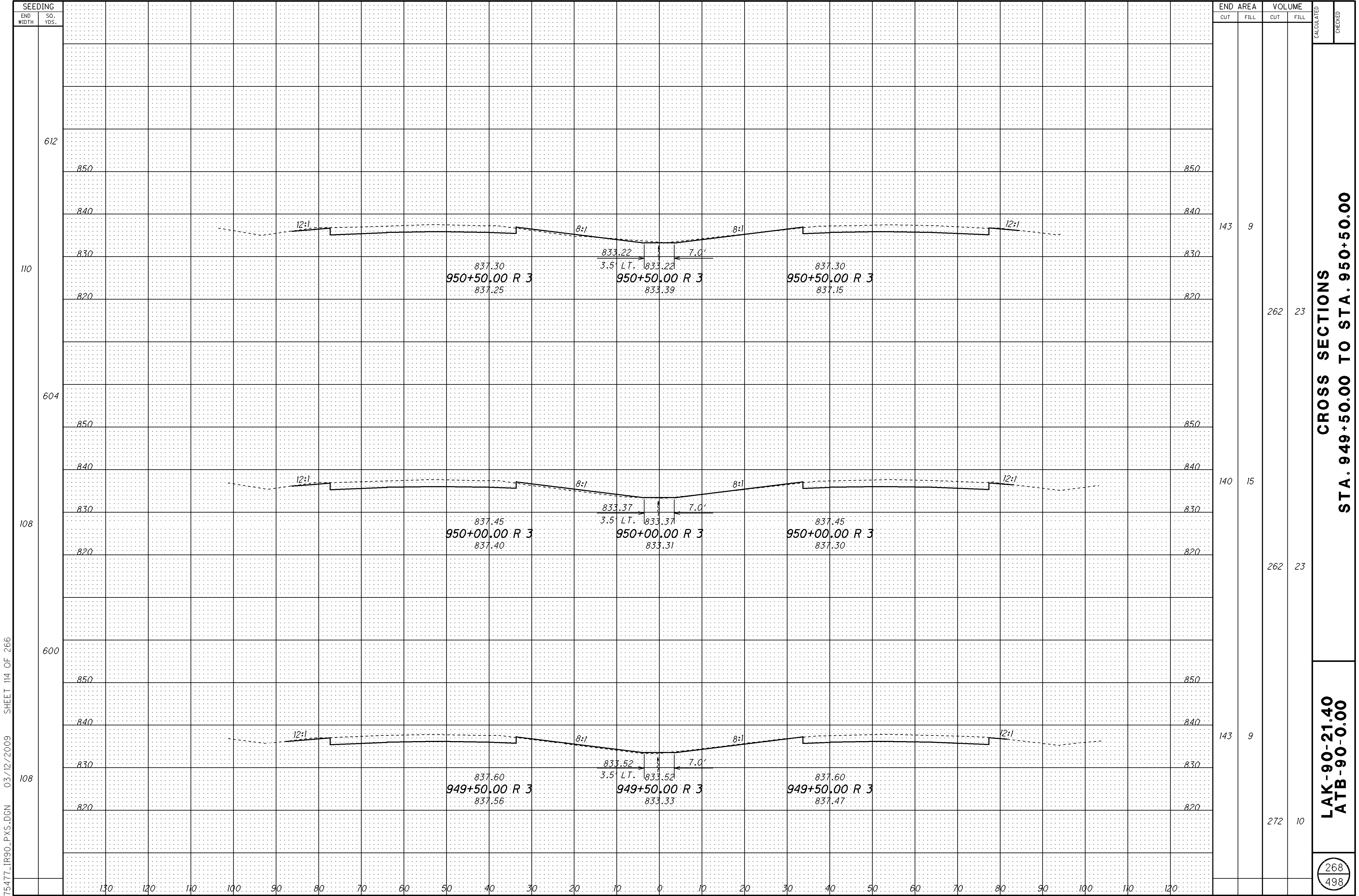
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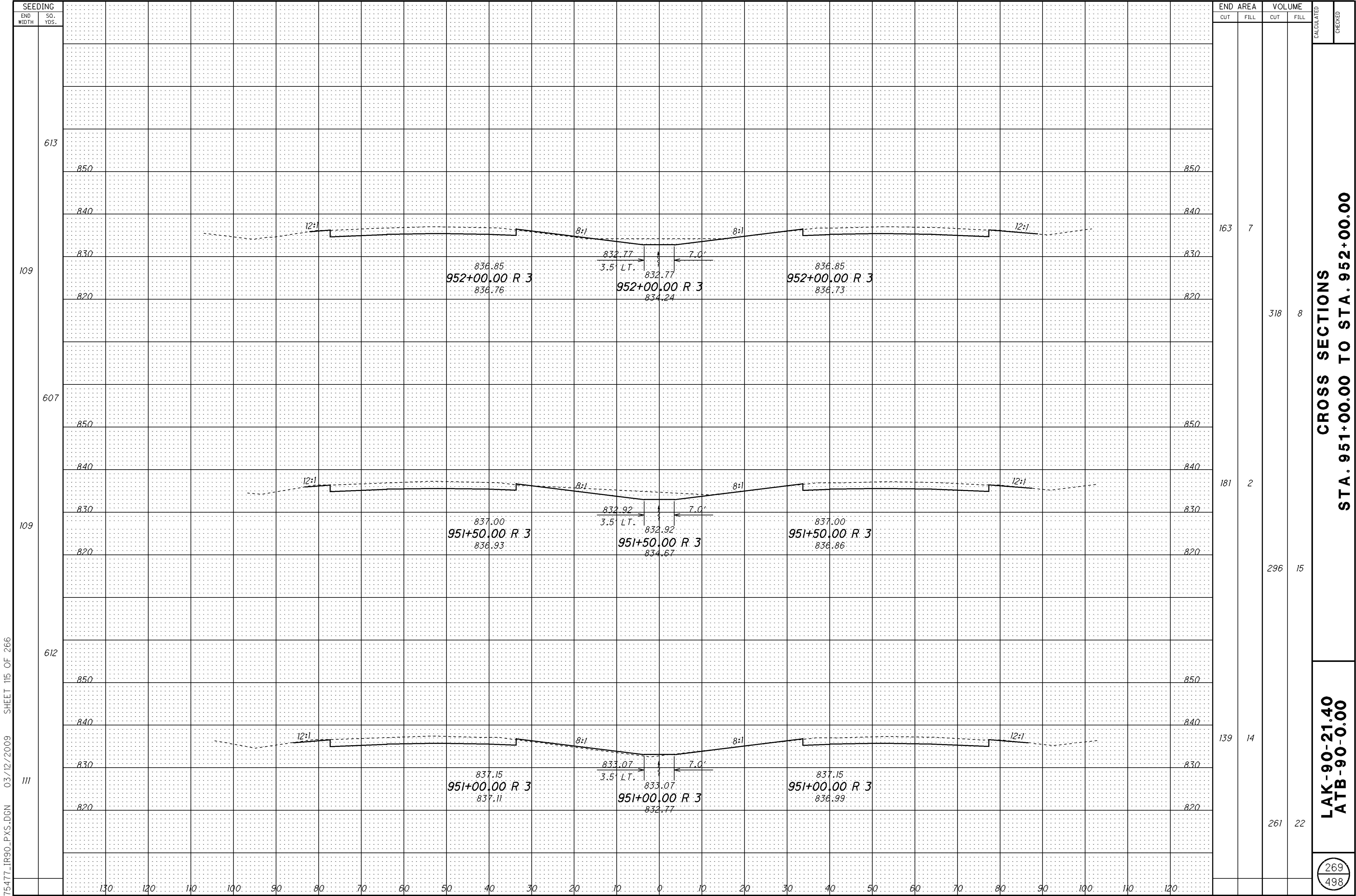
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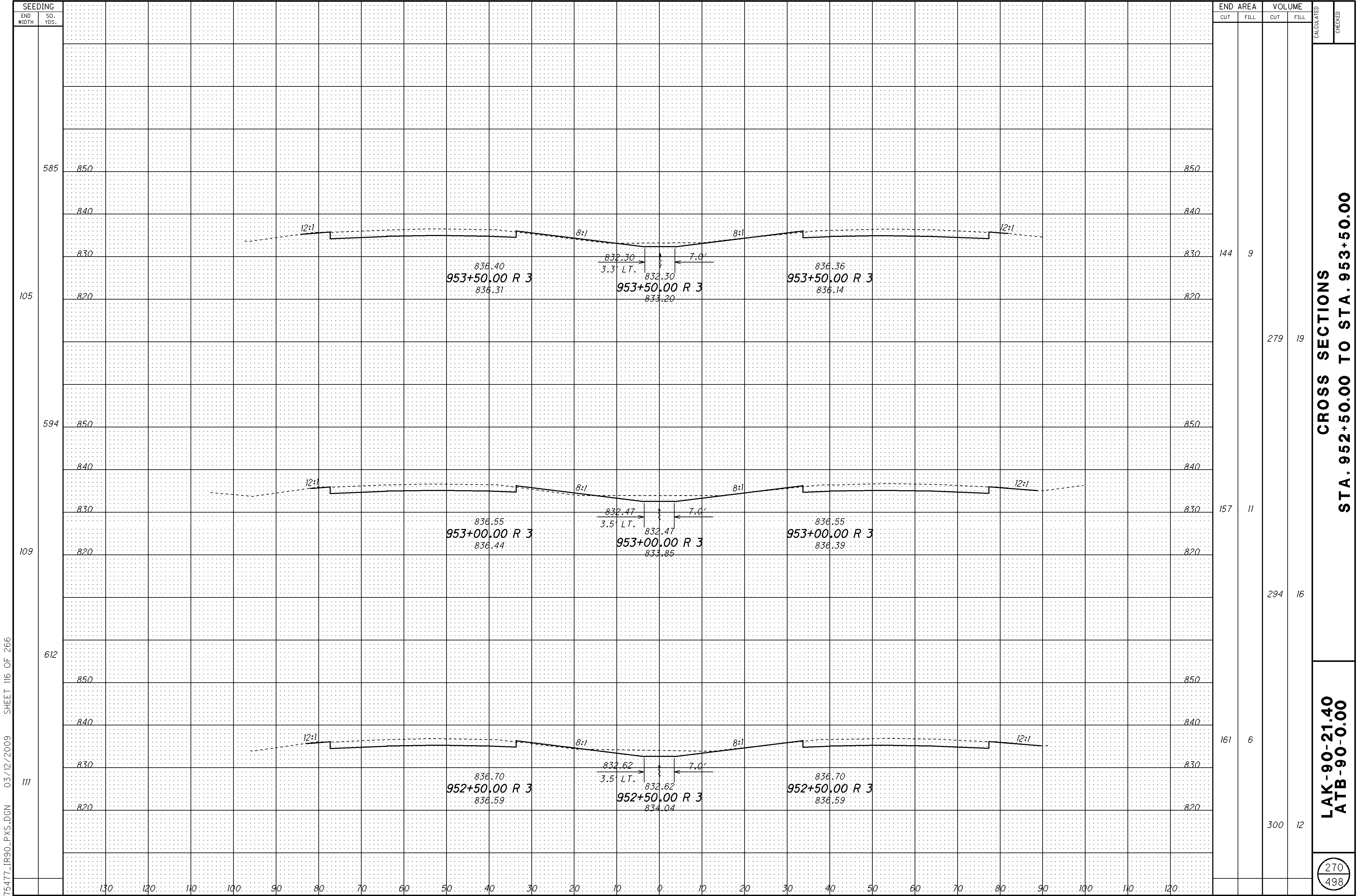
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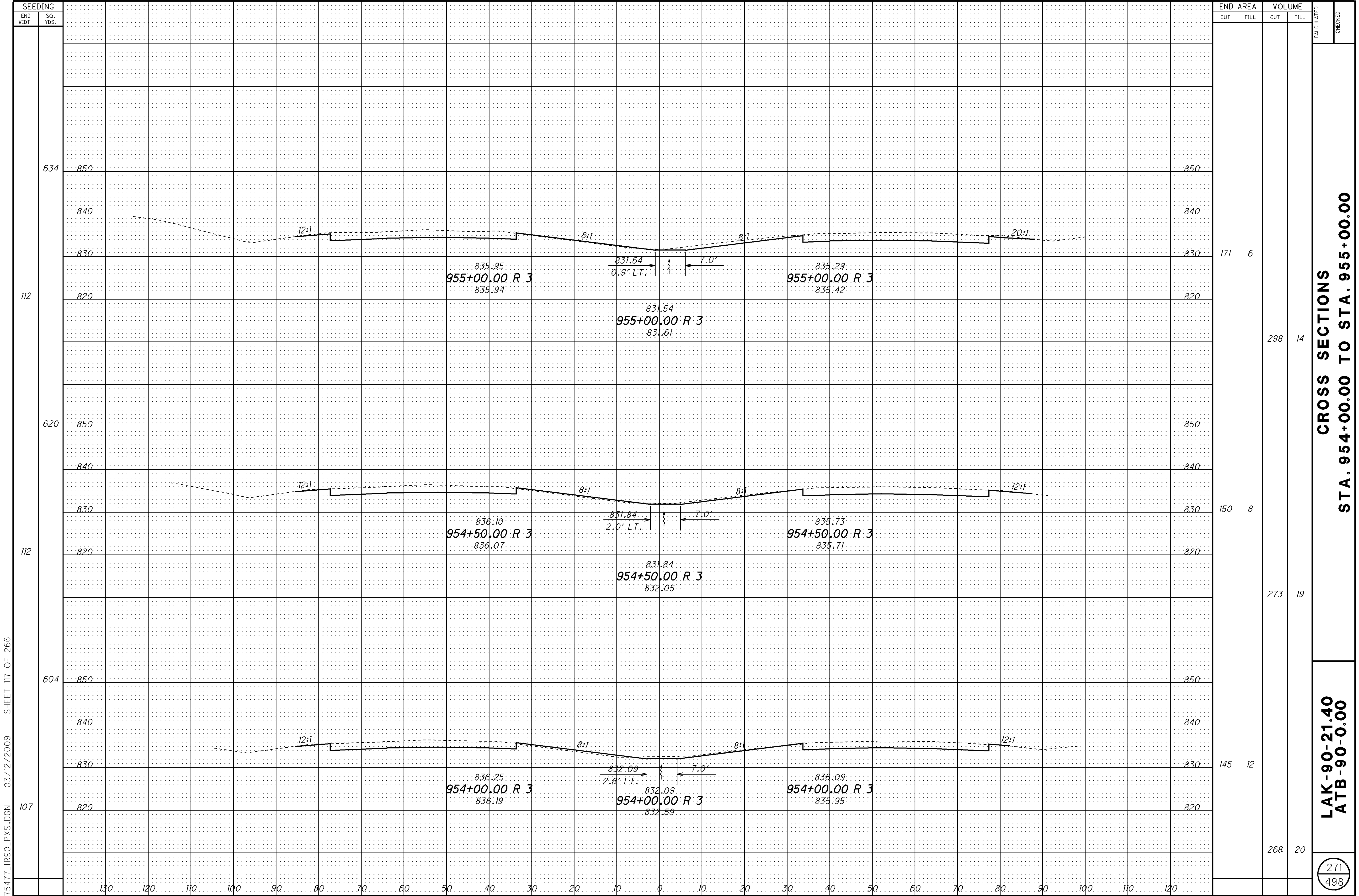
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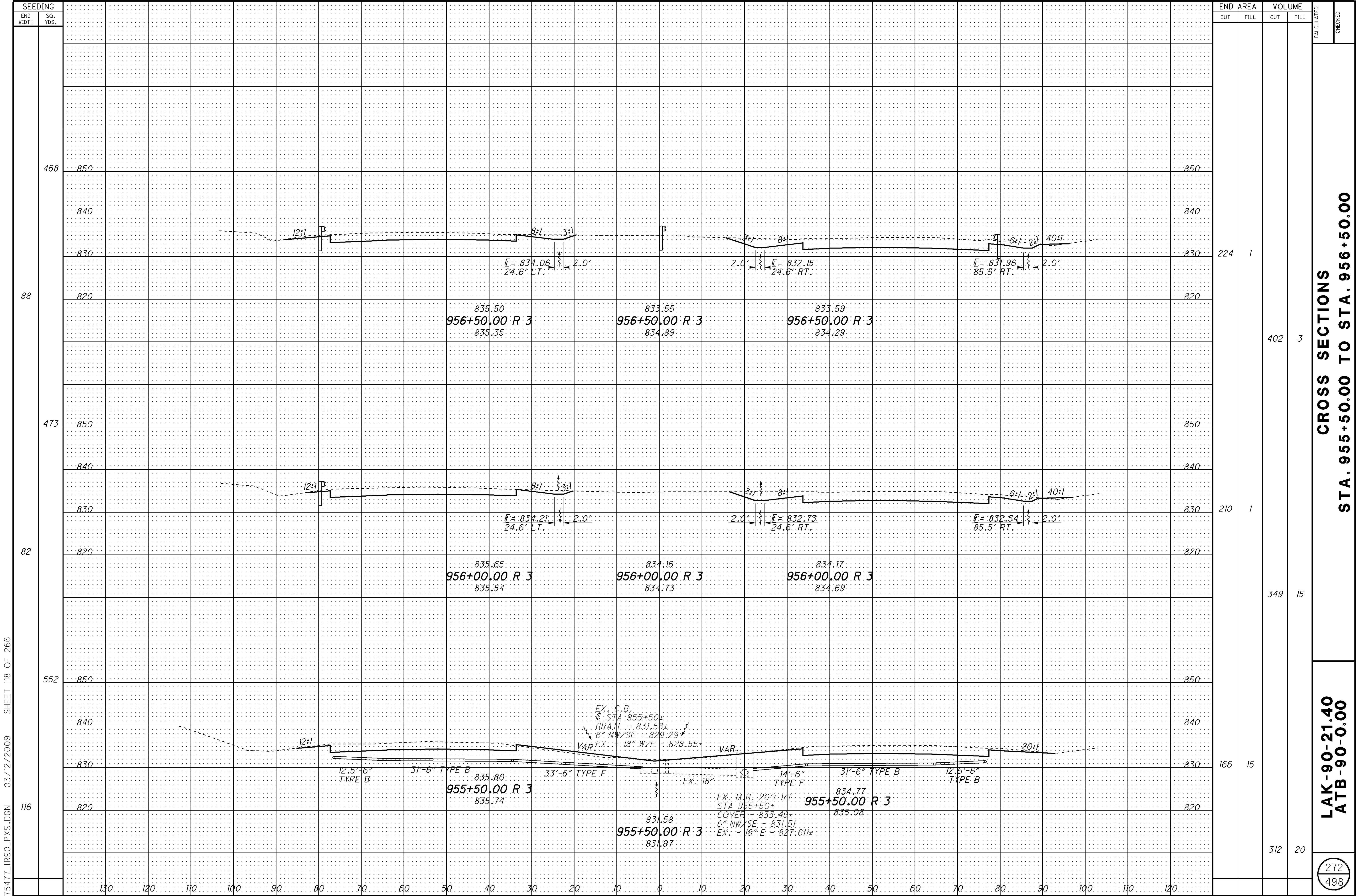
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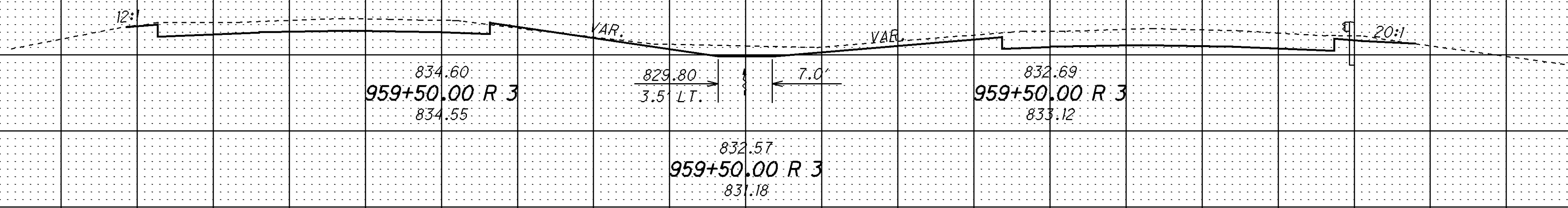
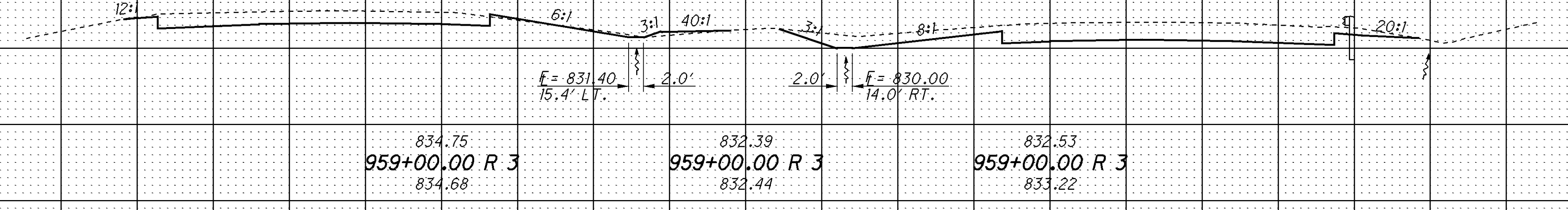
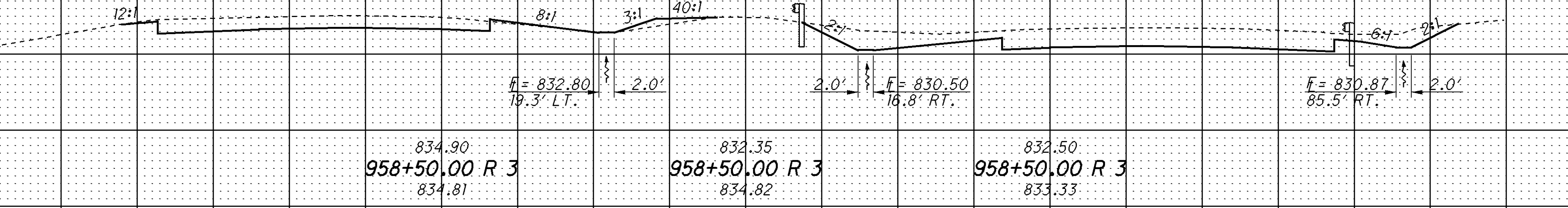


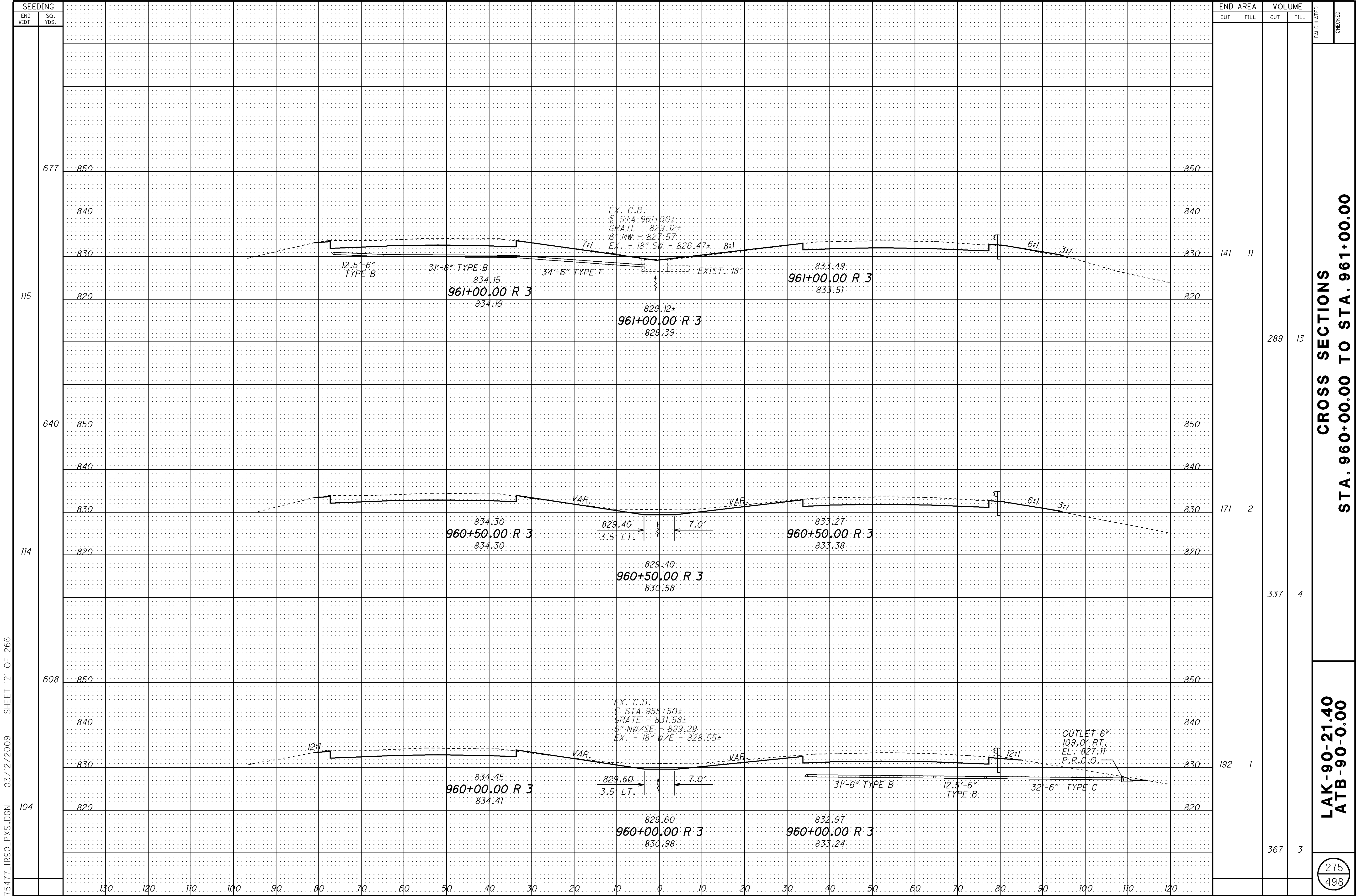






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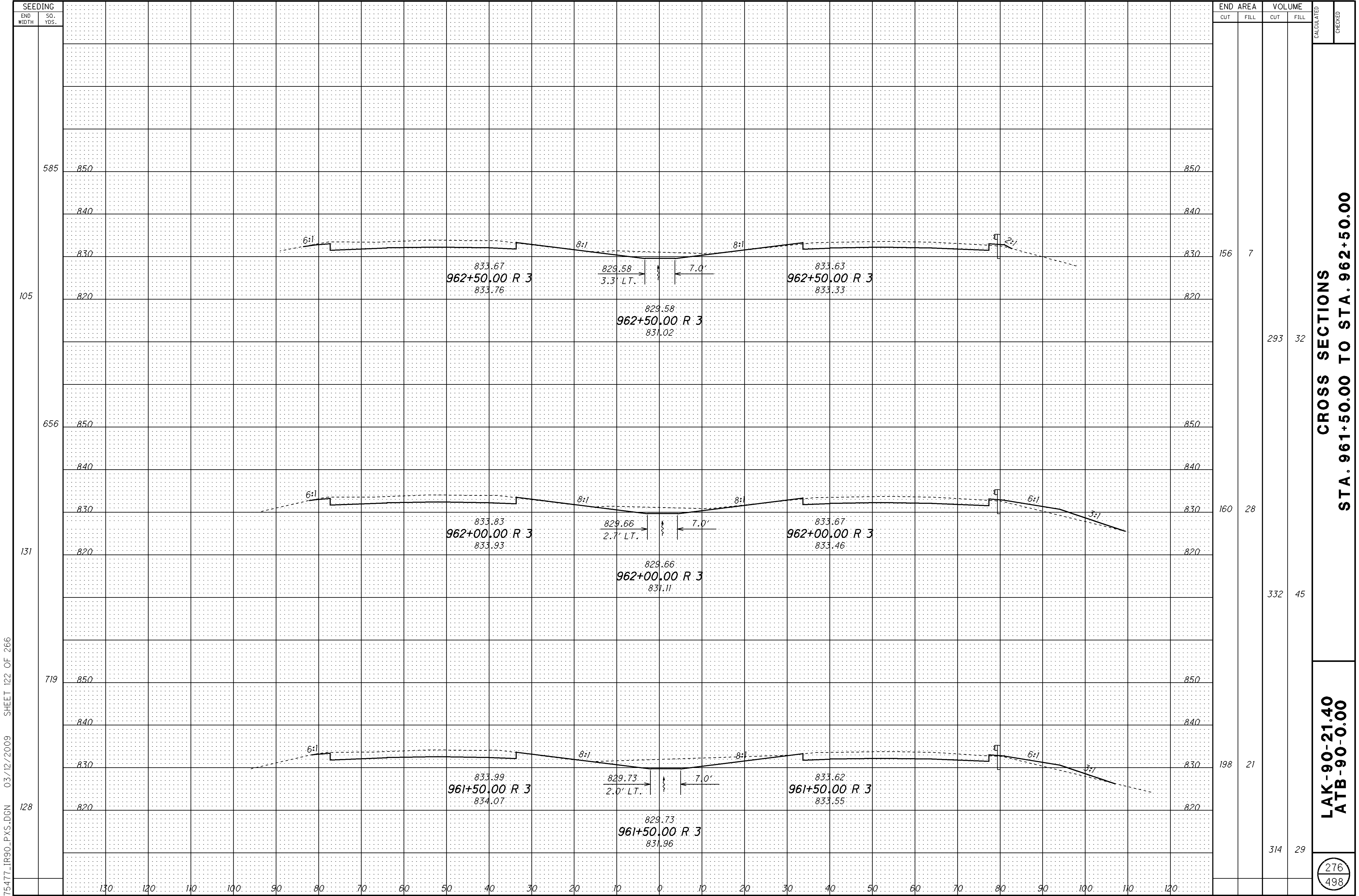
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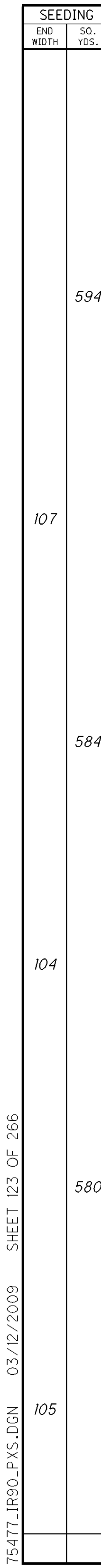


CROSS SECTIONS
STA. 960+00.00 TO STA. 961+00.00

LAK-90-21.40
ATB-90-0.00

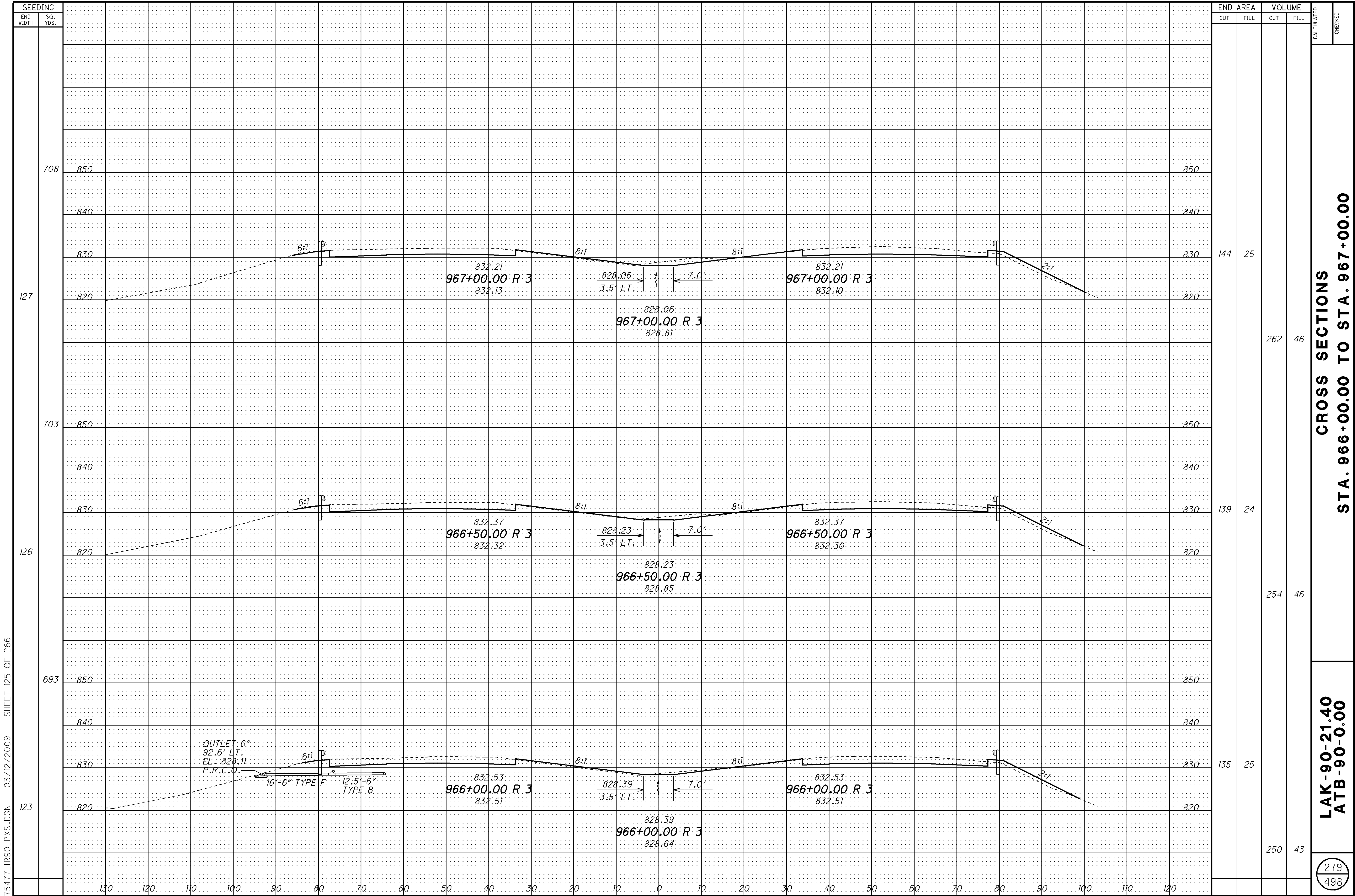
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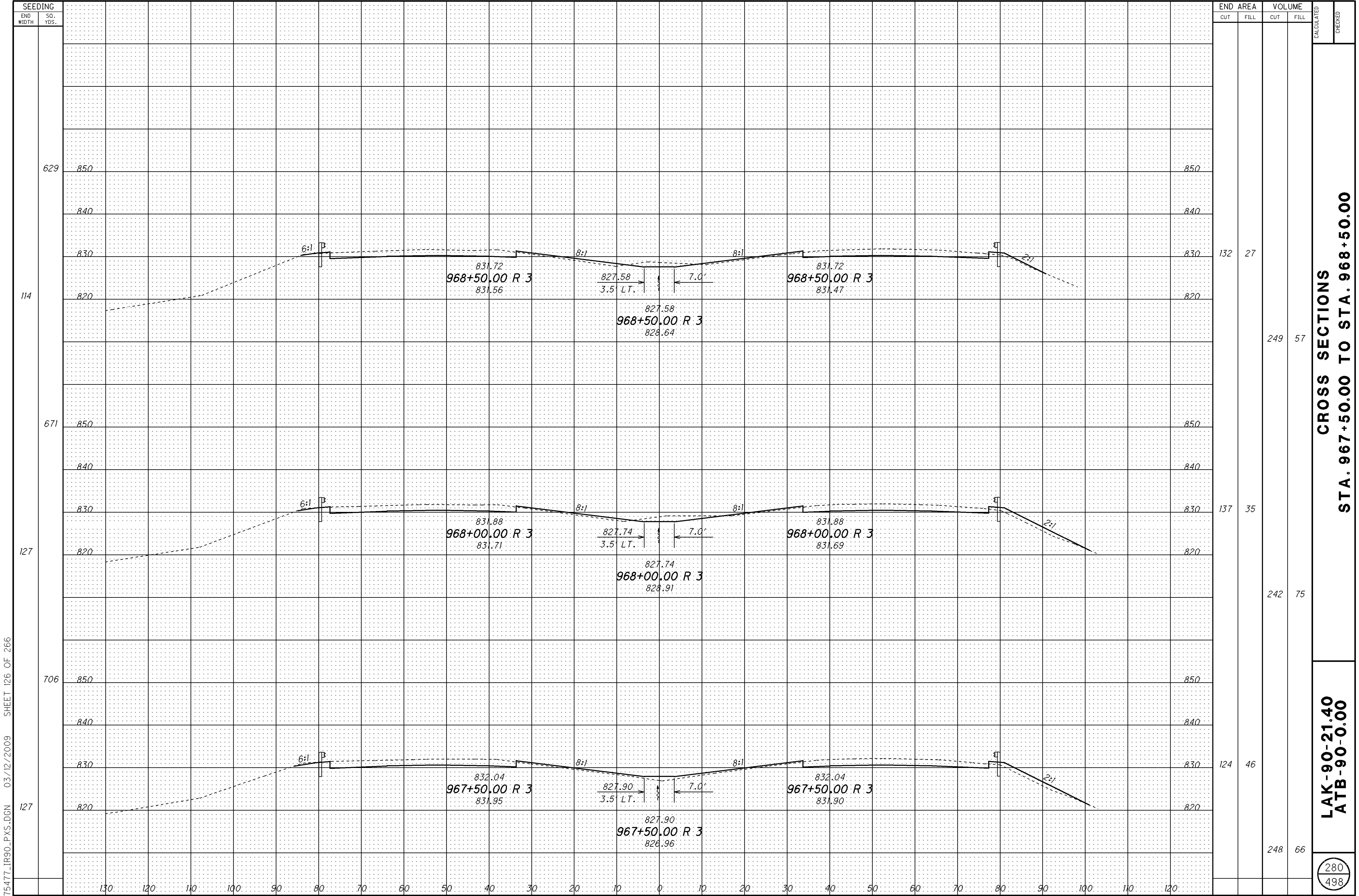




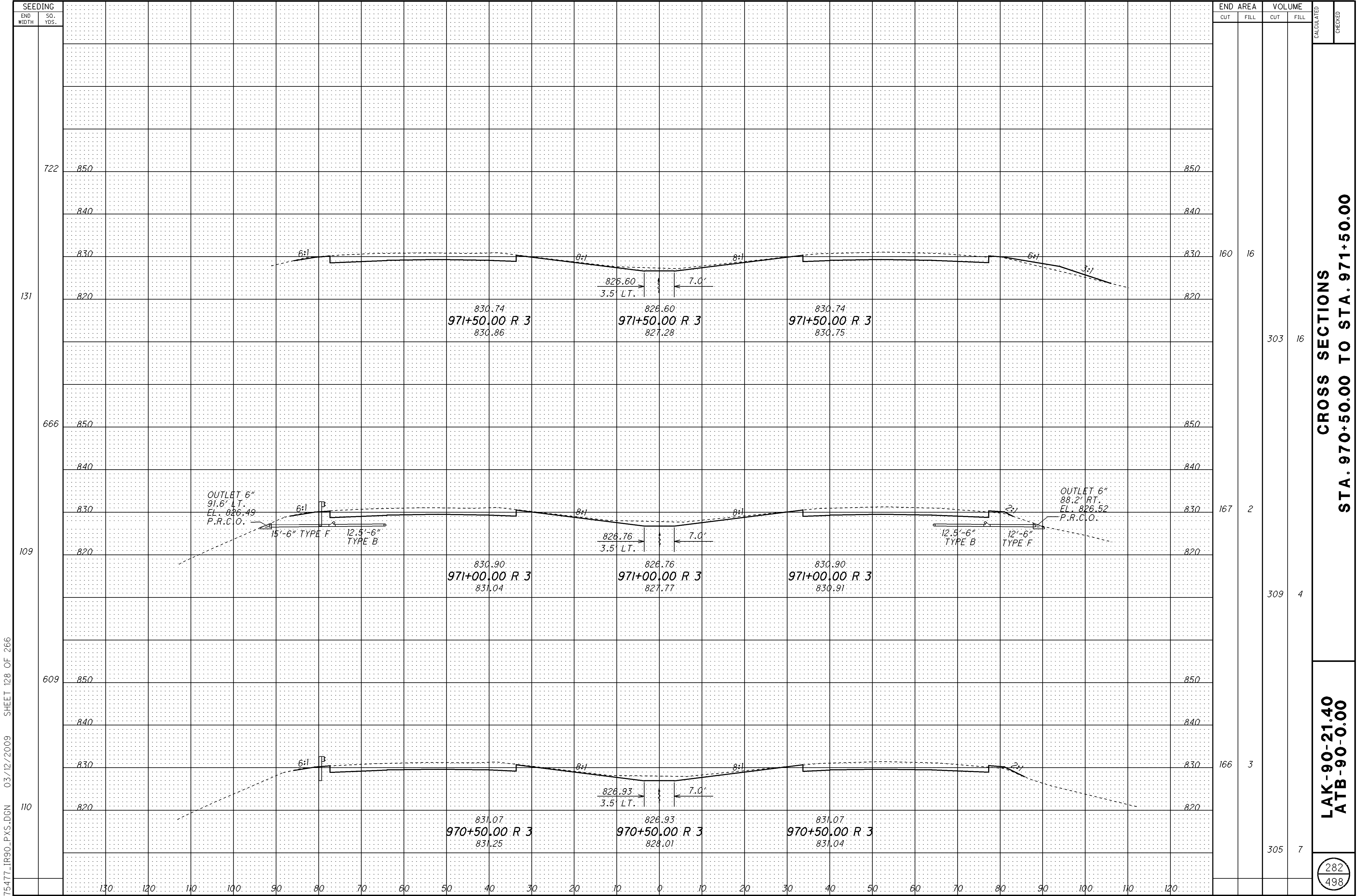
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75477_IR90_PXS.DGN	03/12/2009	107	594
	SHEET 123 OF 266	104	584
		105	580

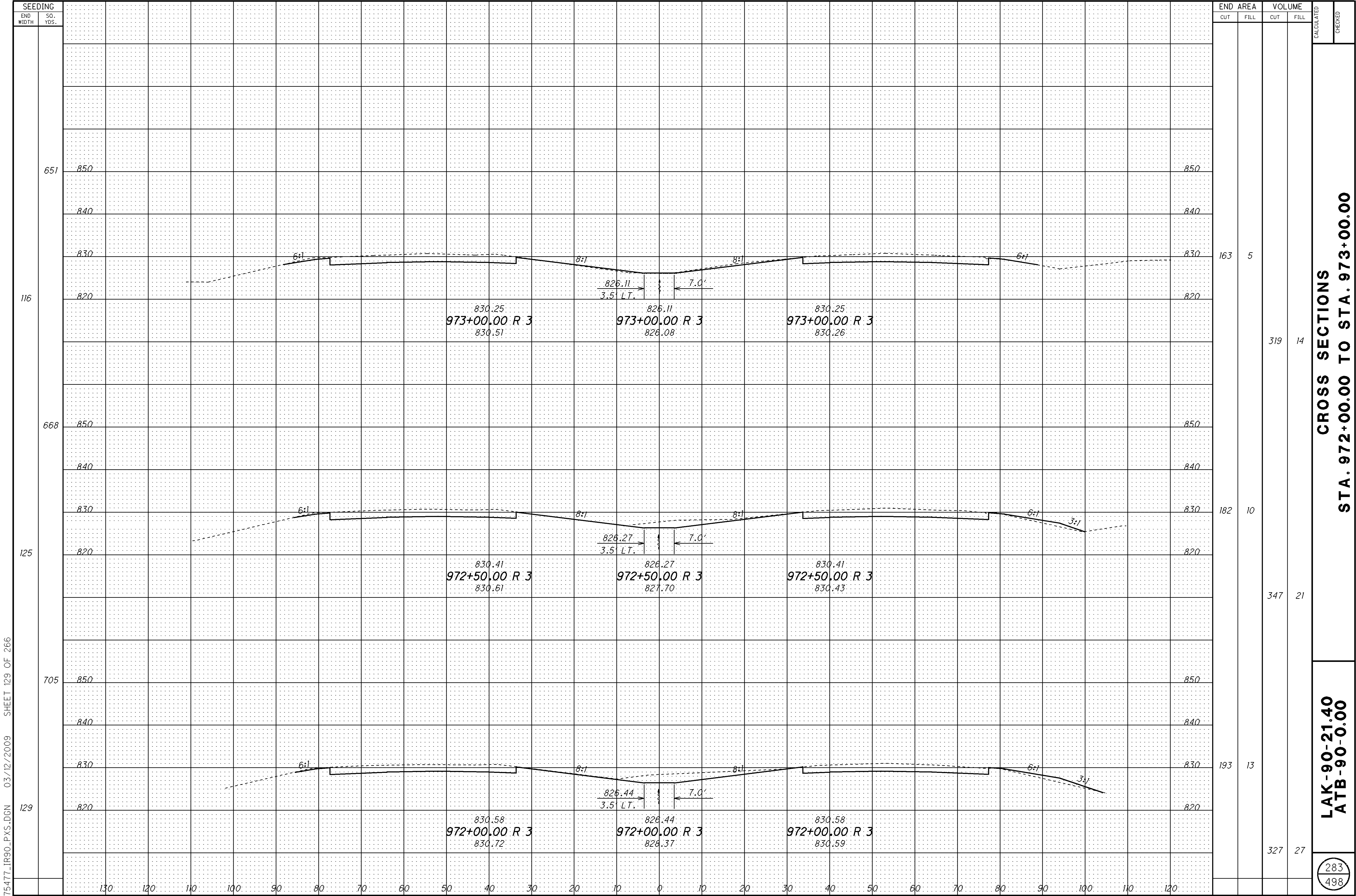
$$\frac{278}{498}$$





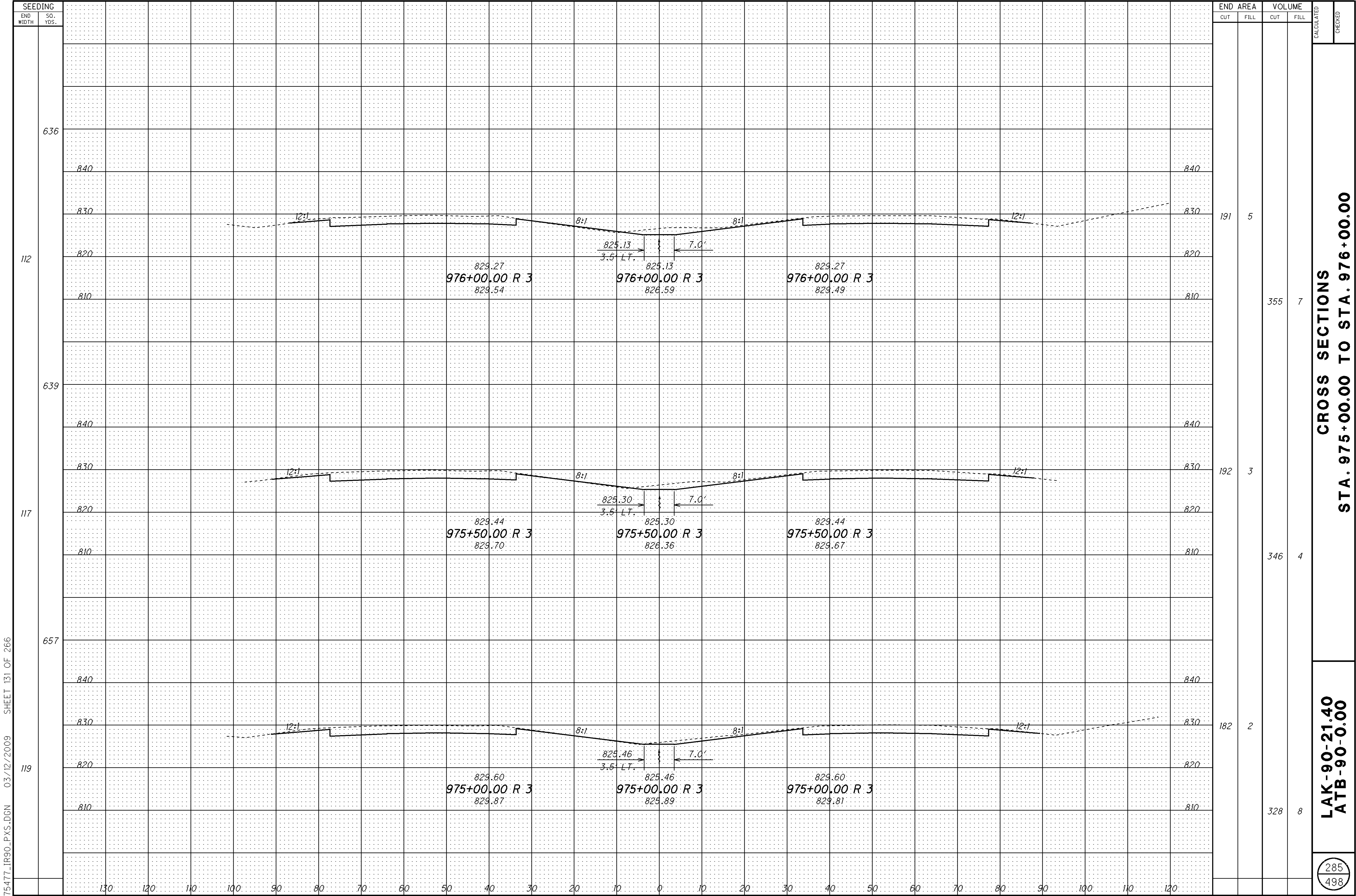
SEEDING		END AREA		VOLUME		CROSS SECTIONS	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	CUT	FILL
615	III	850	840	830	820	163	5
602	106	850	840	830	820	153	6
605	112	850	840	830	820	129	14
						242	38
						293	10
						262	18
						281	498

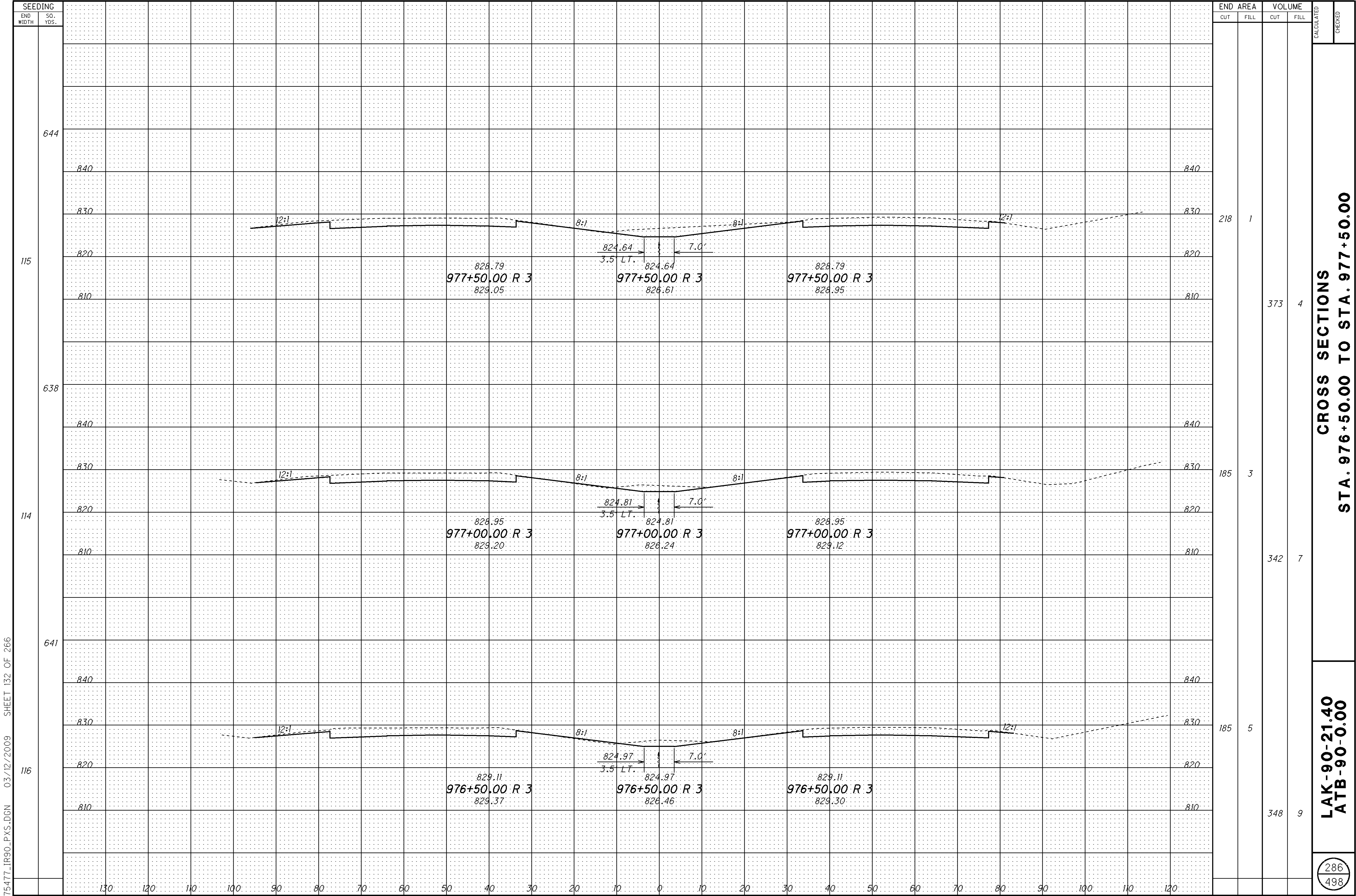


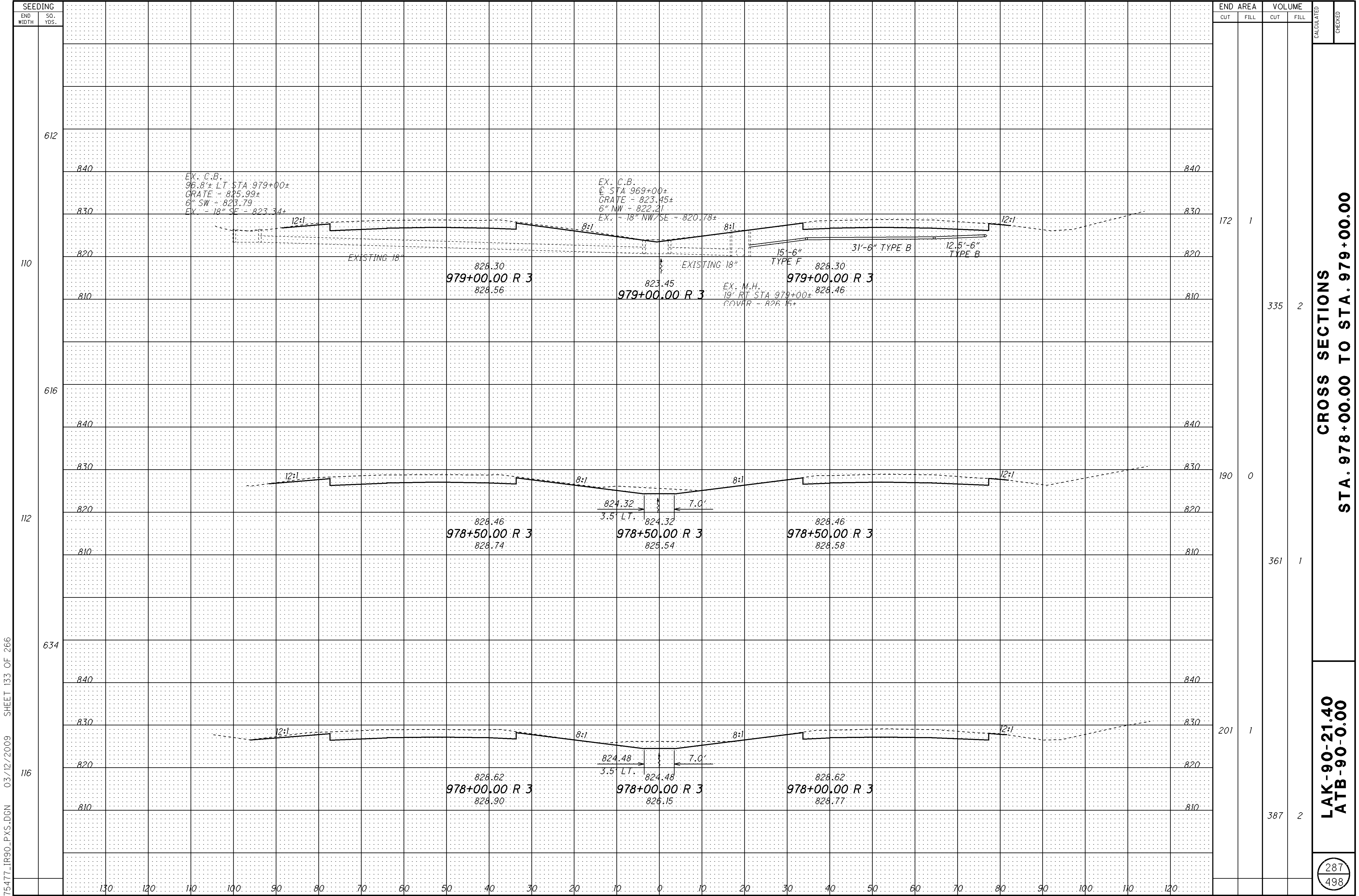


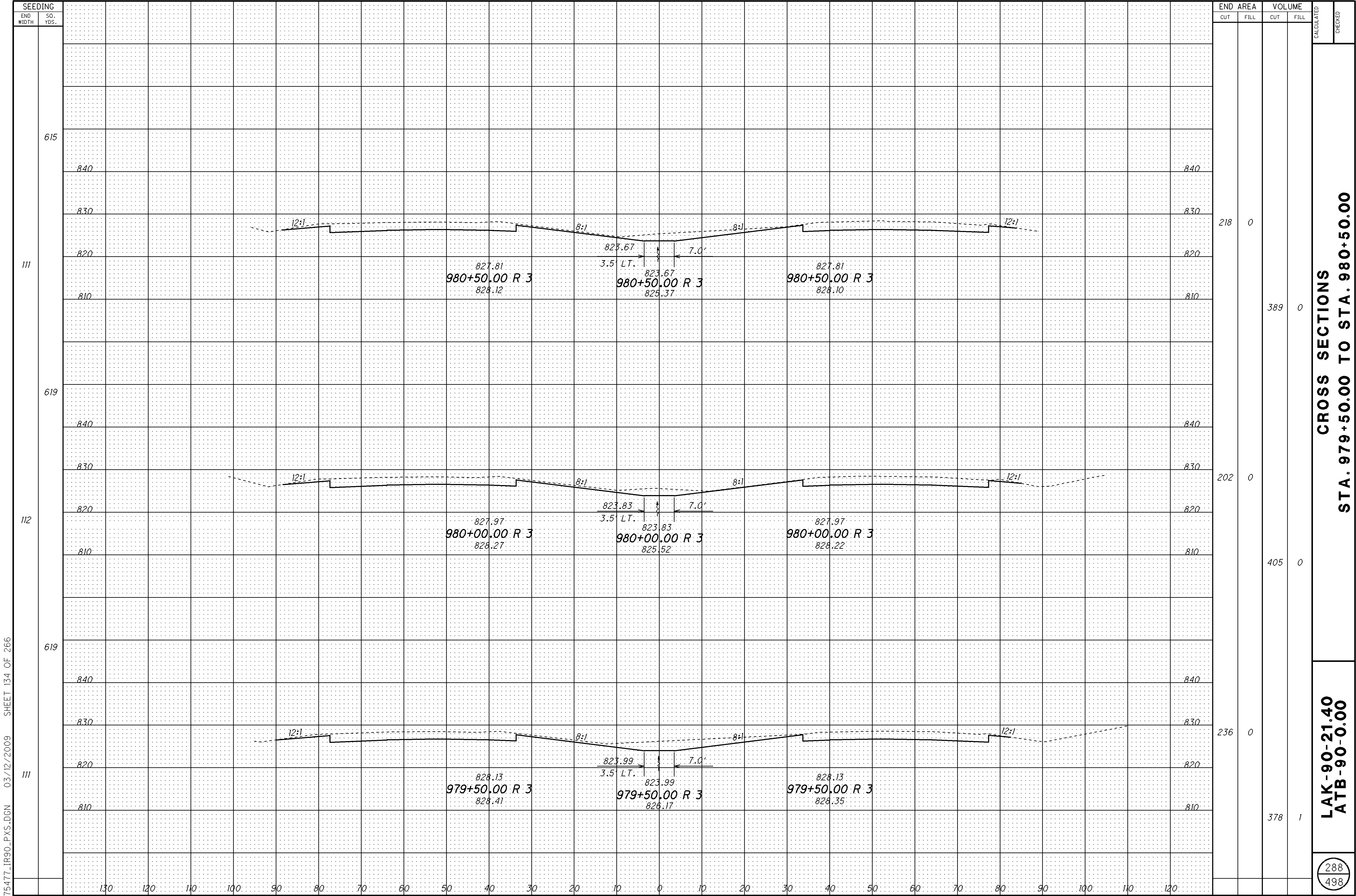
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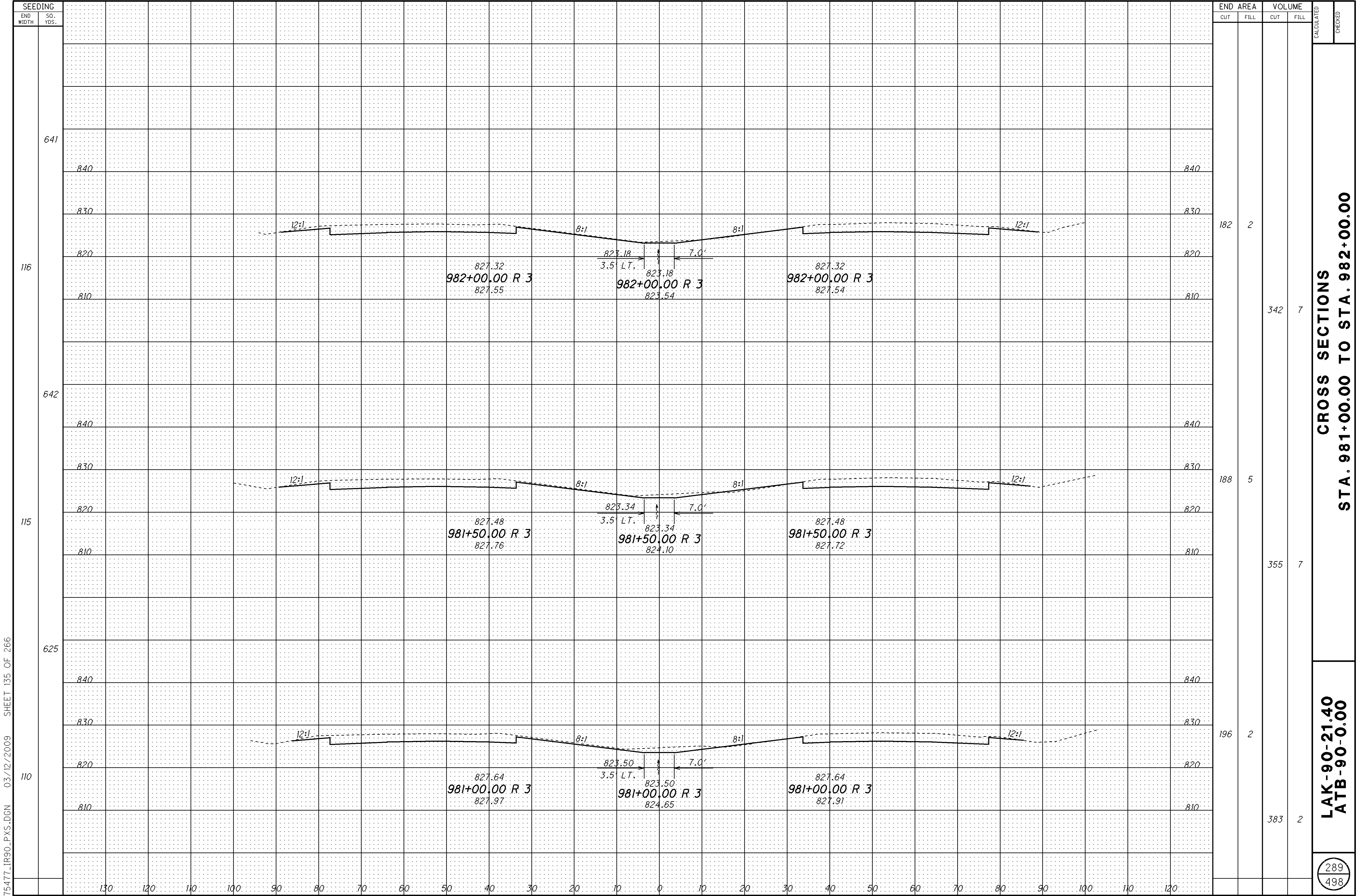
[illegible]

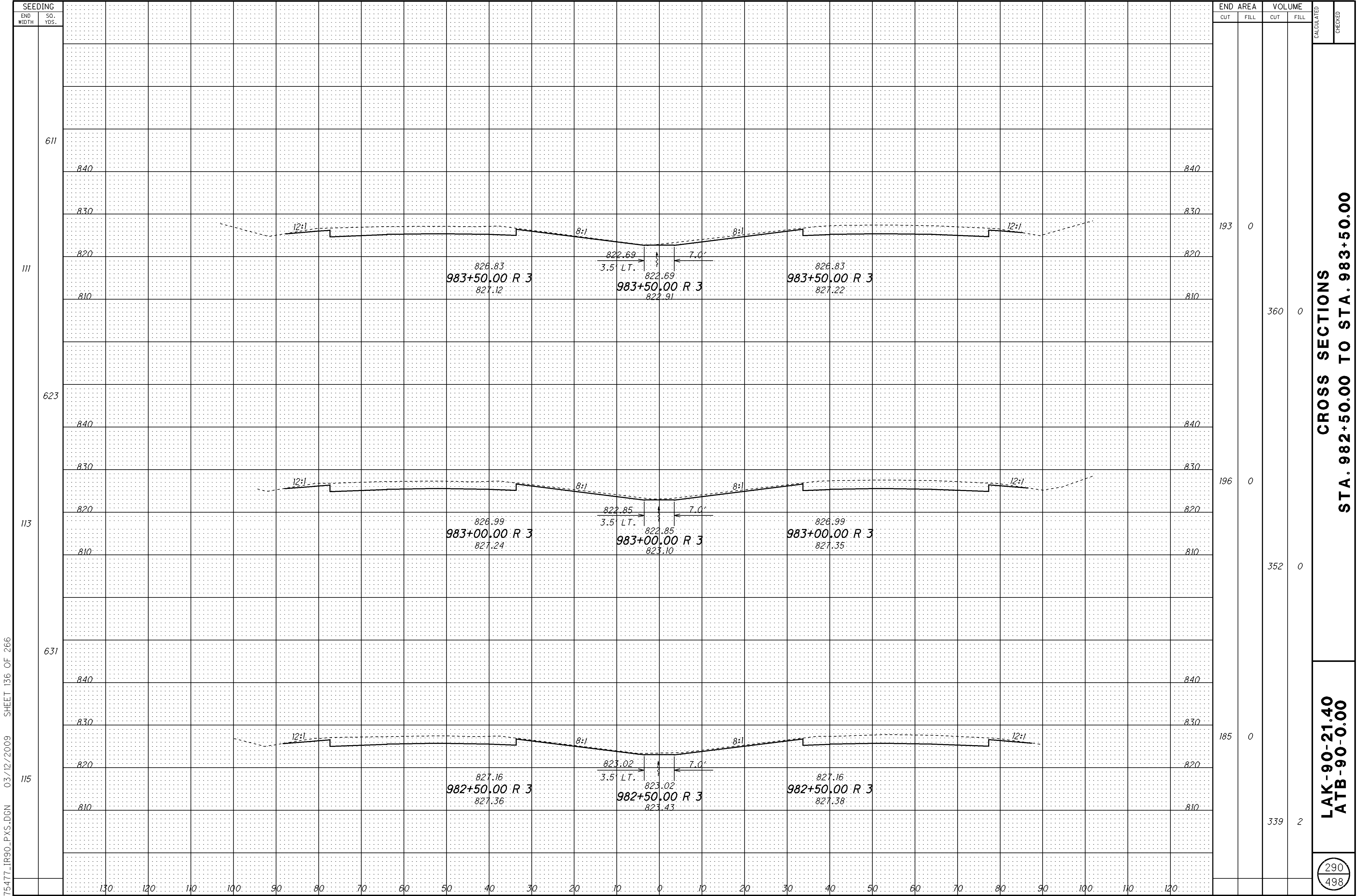


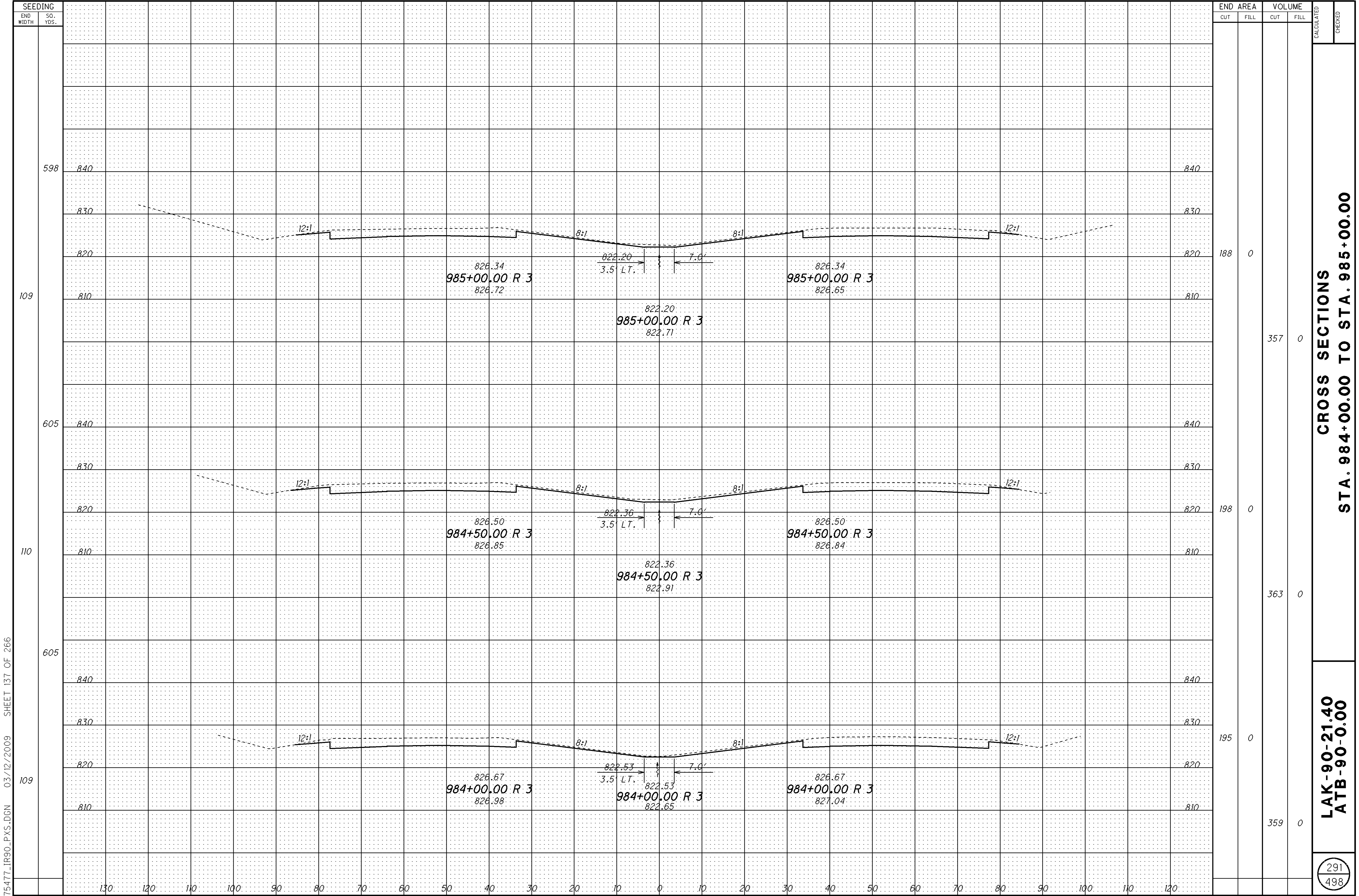


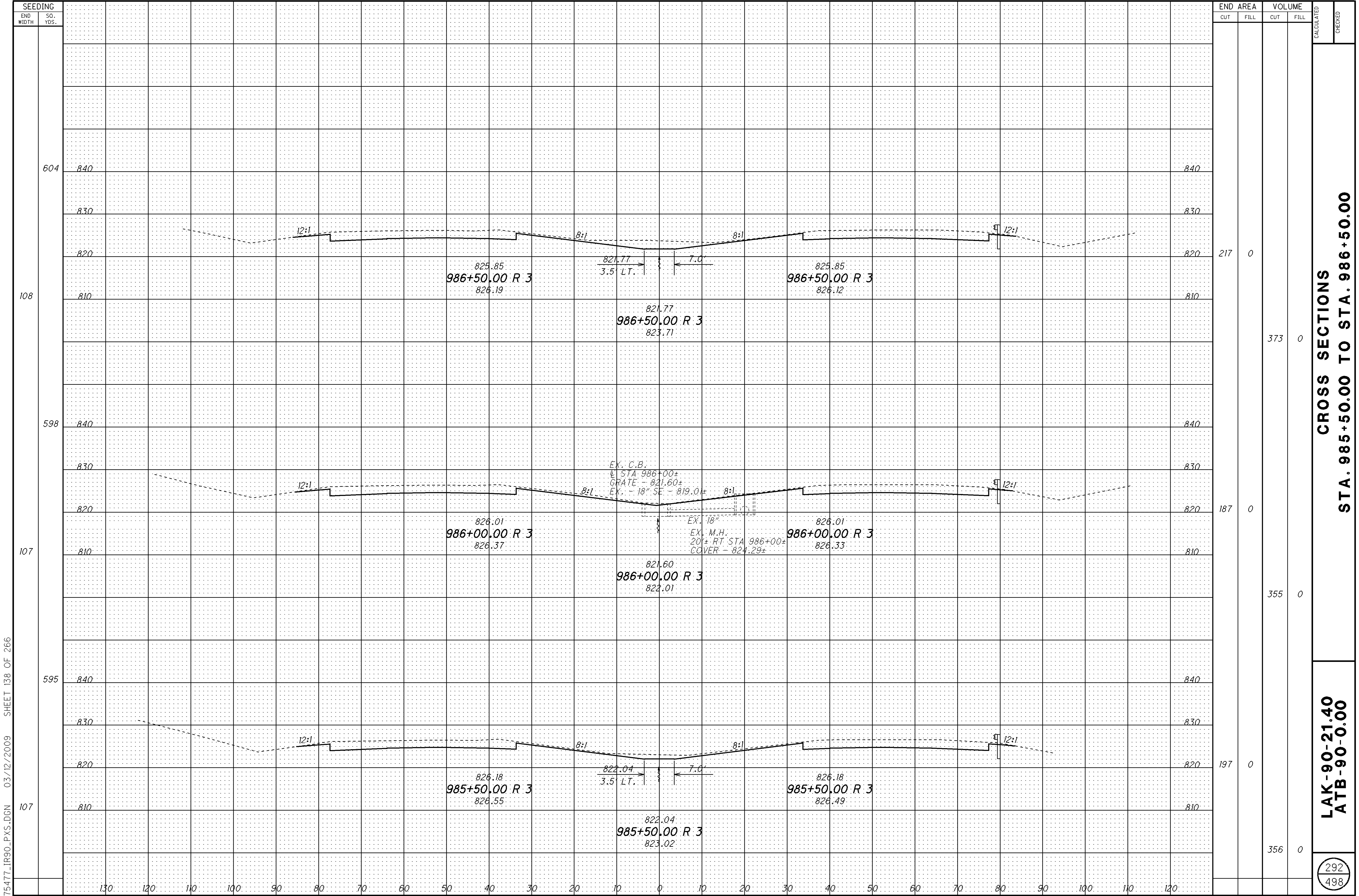


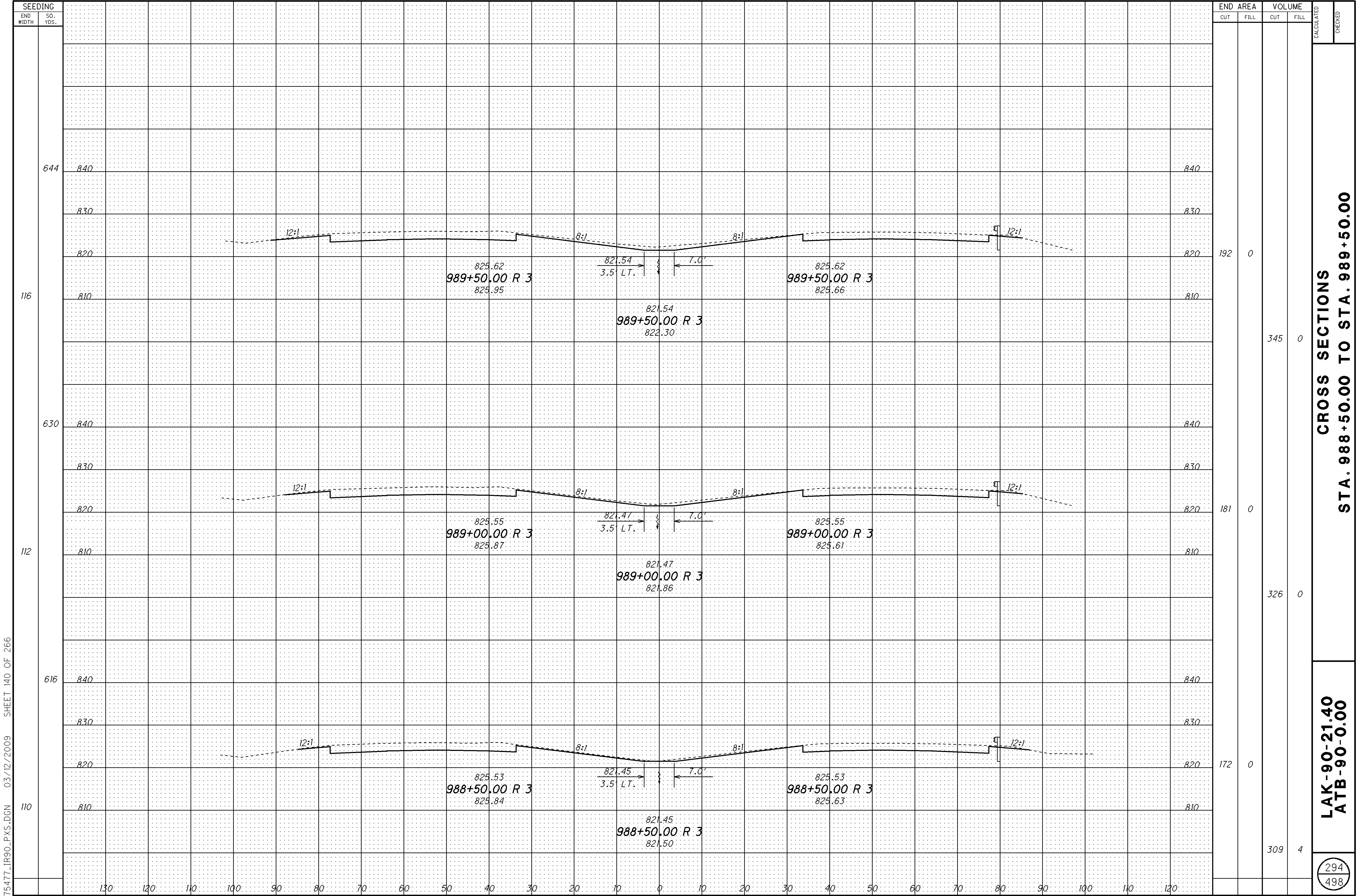






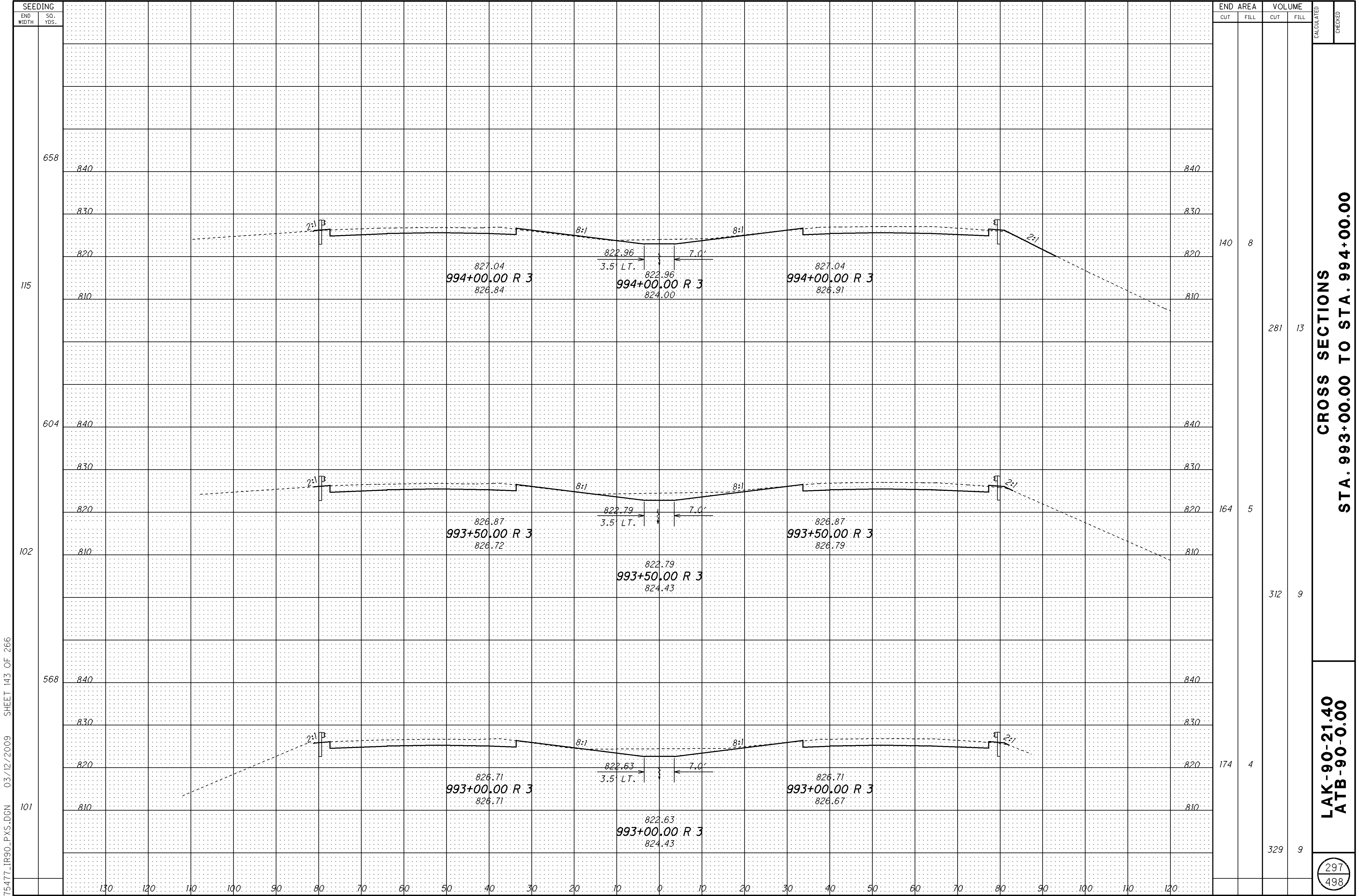


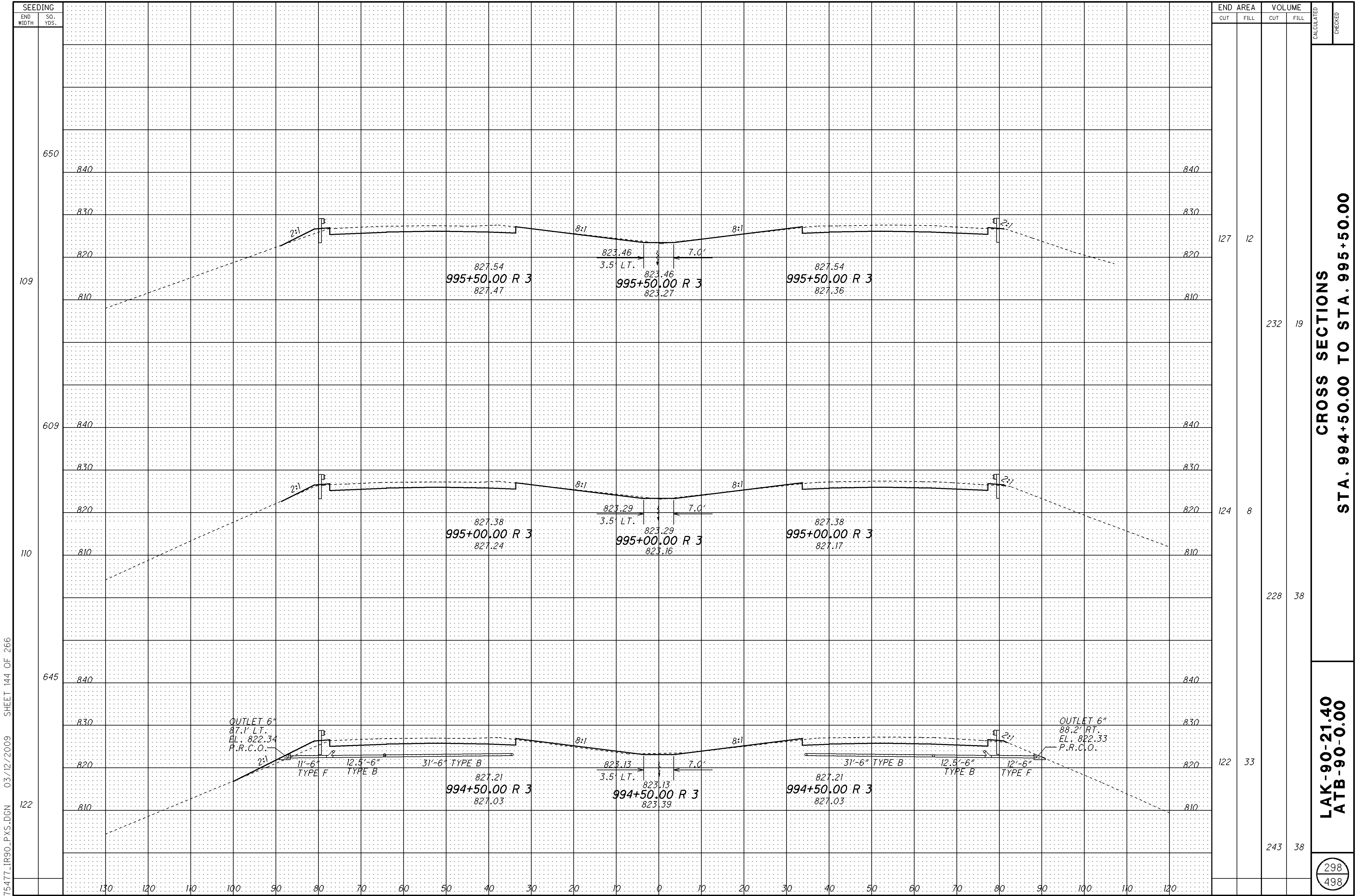


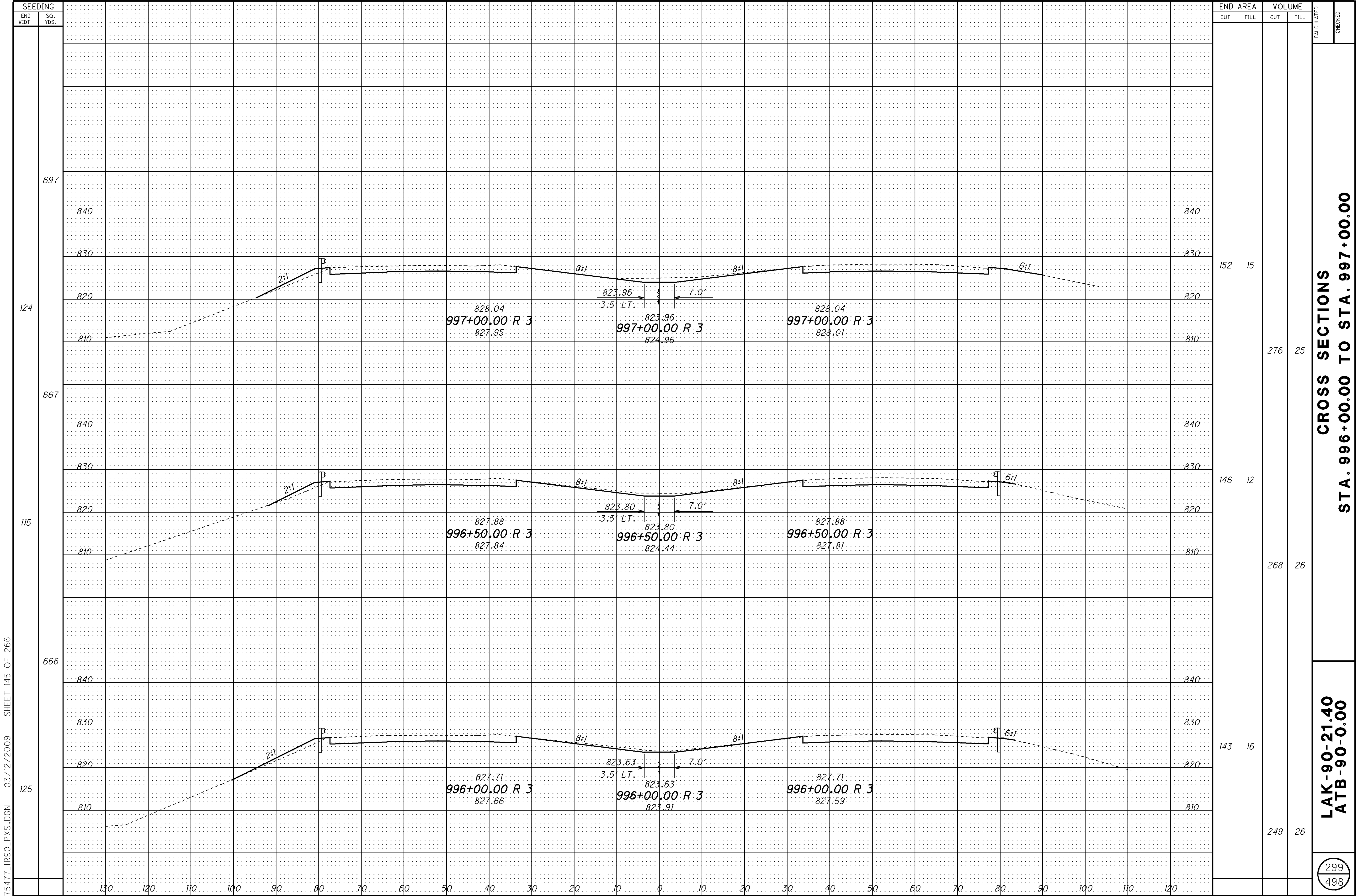


295
498

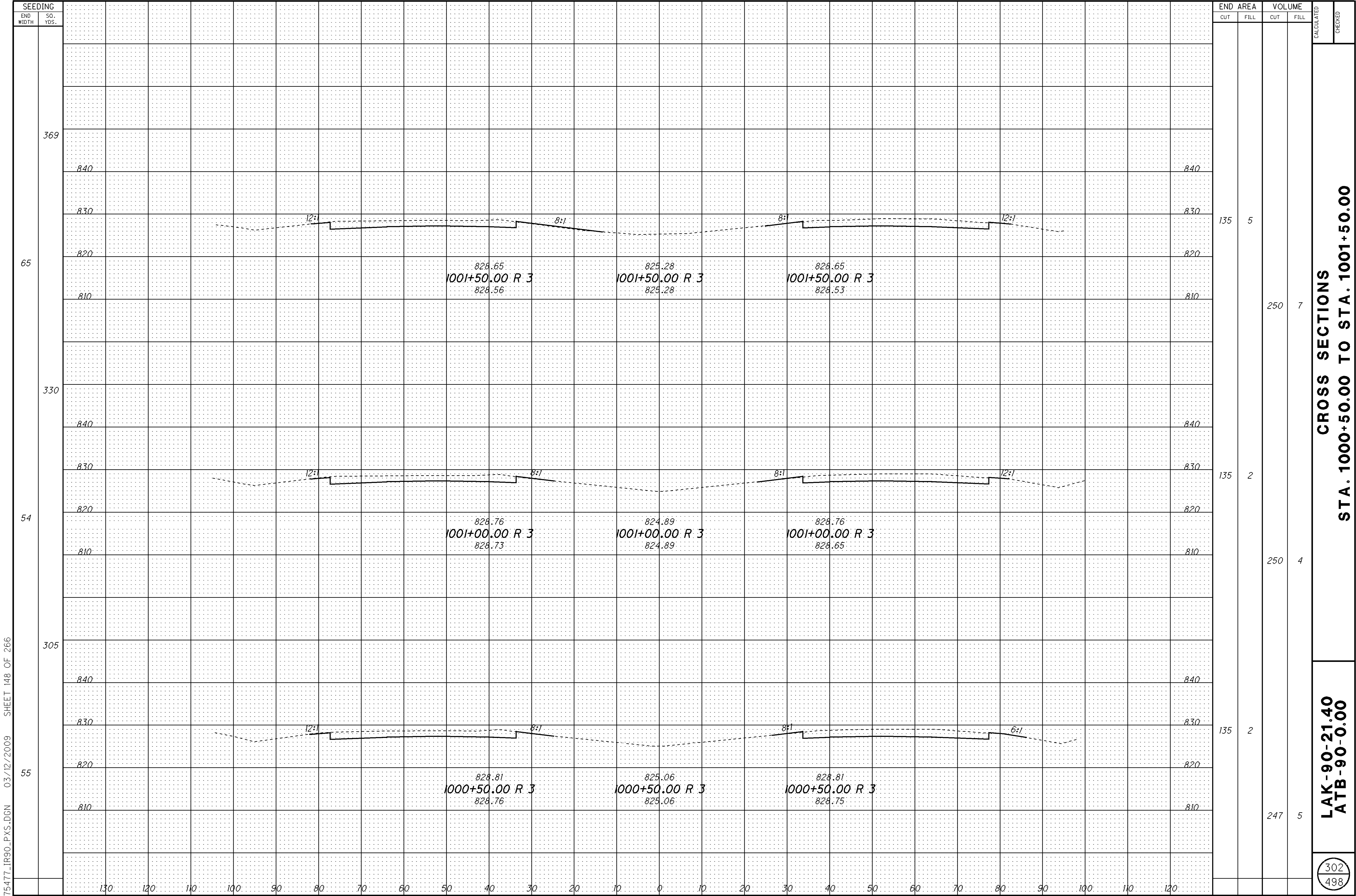
296
498

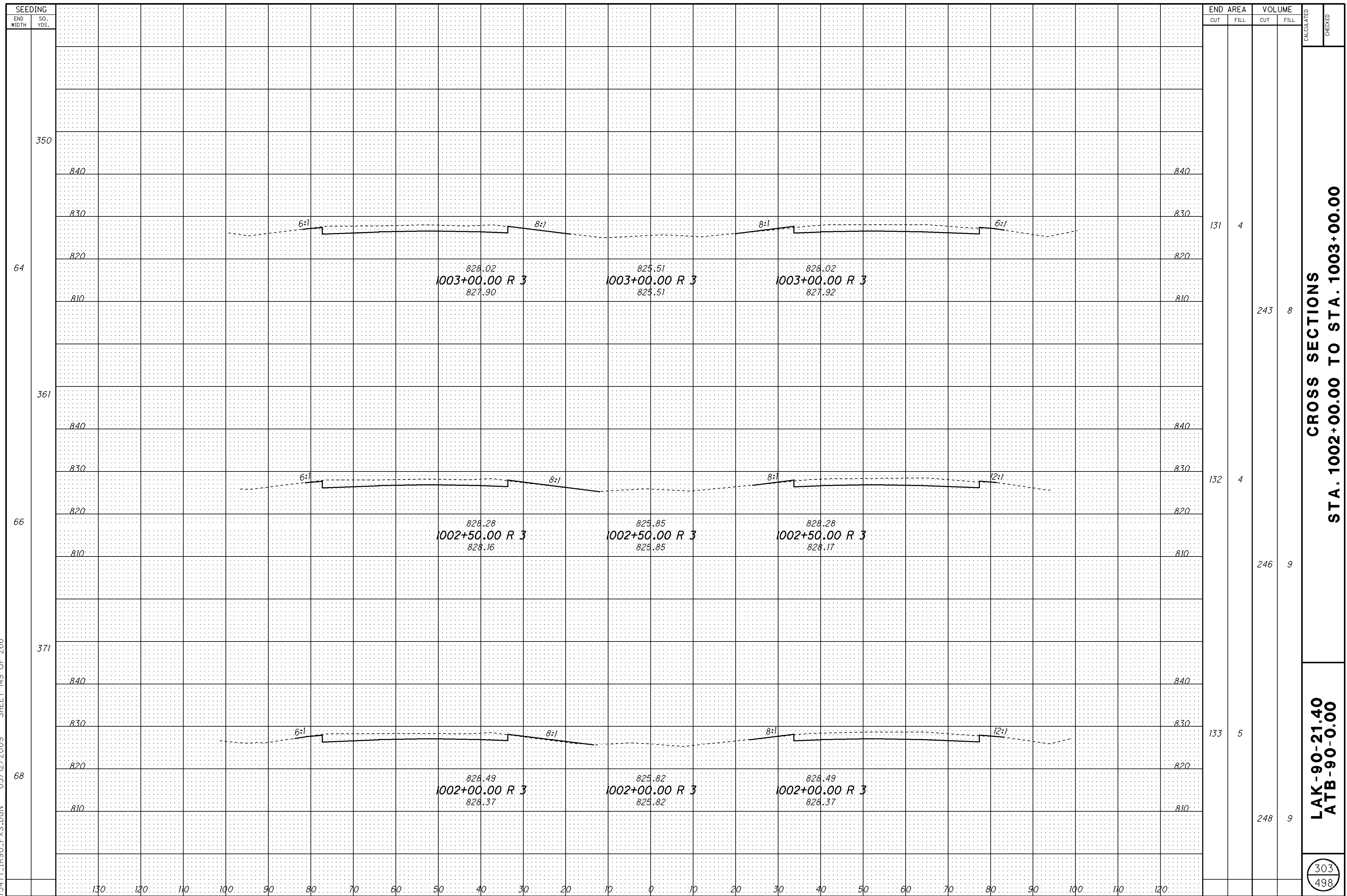


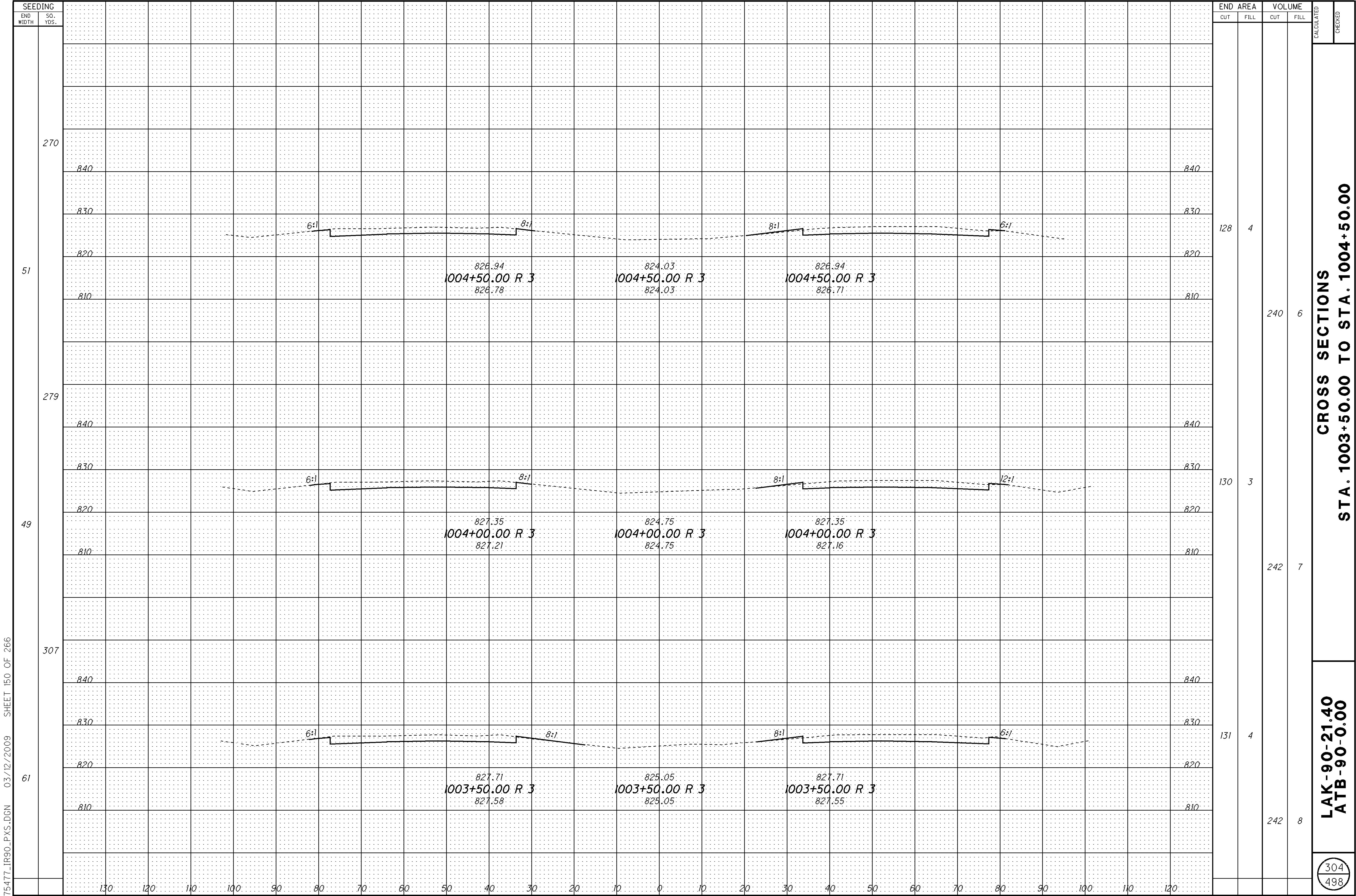


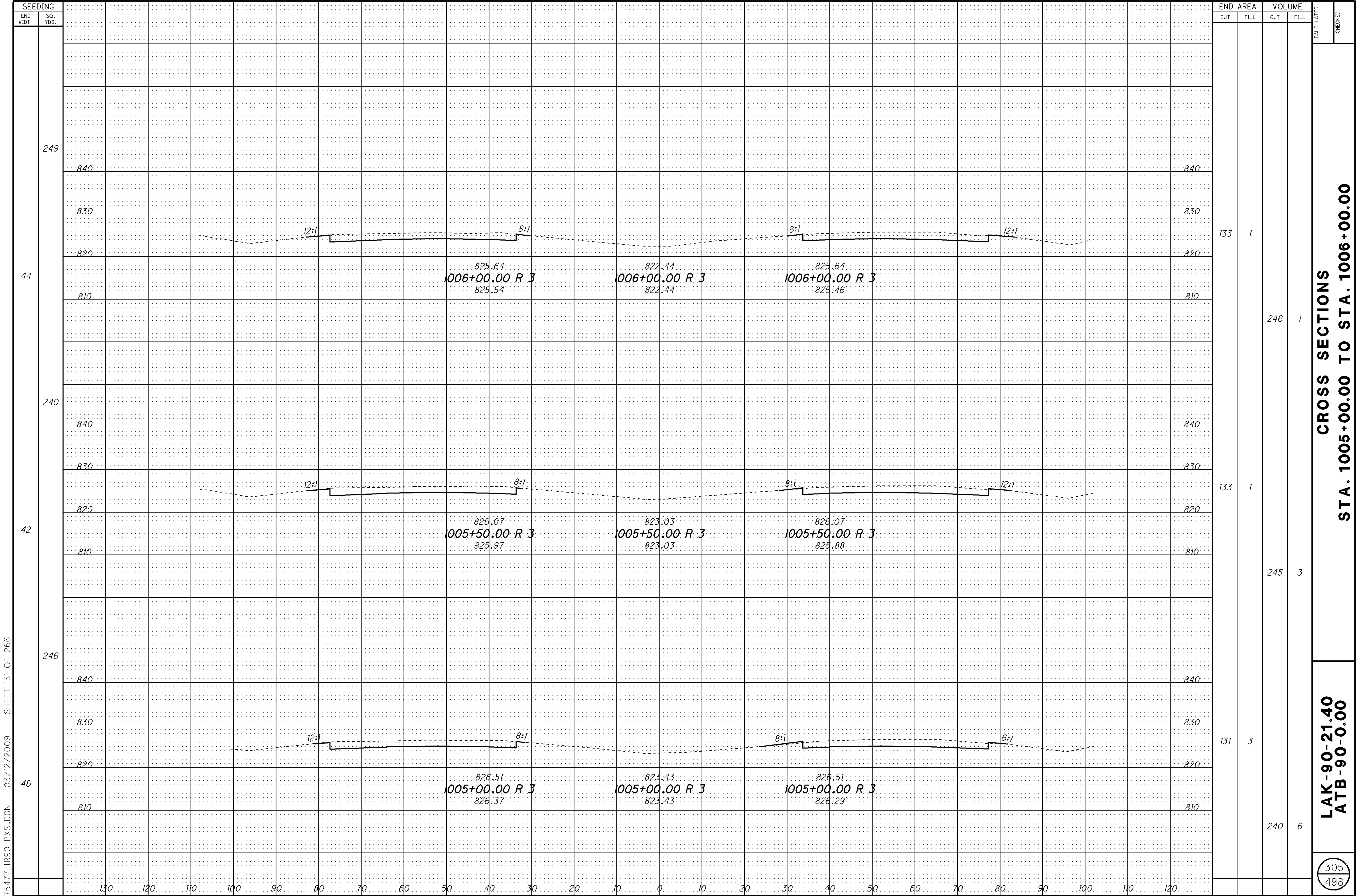


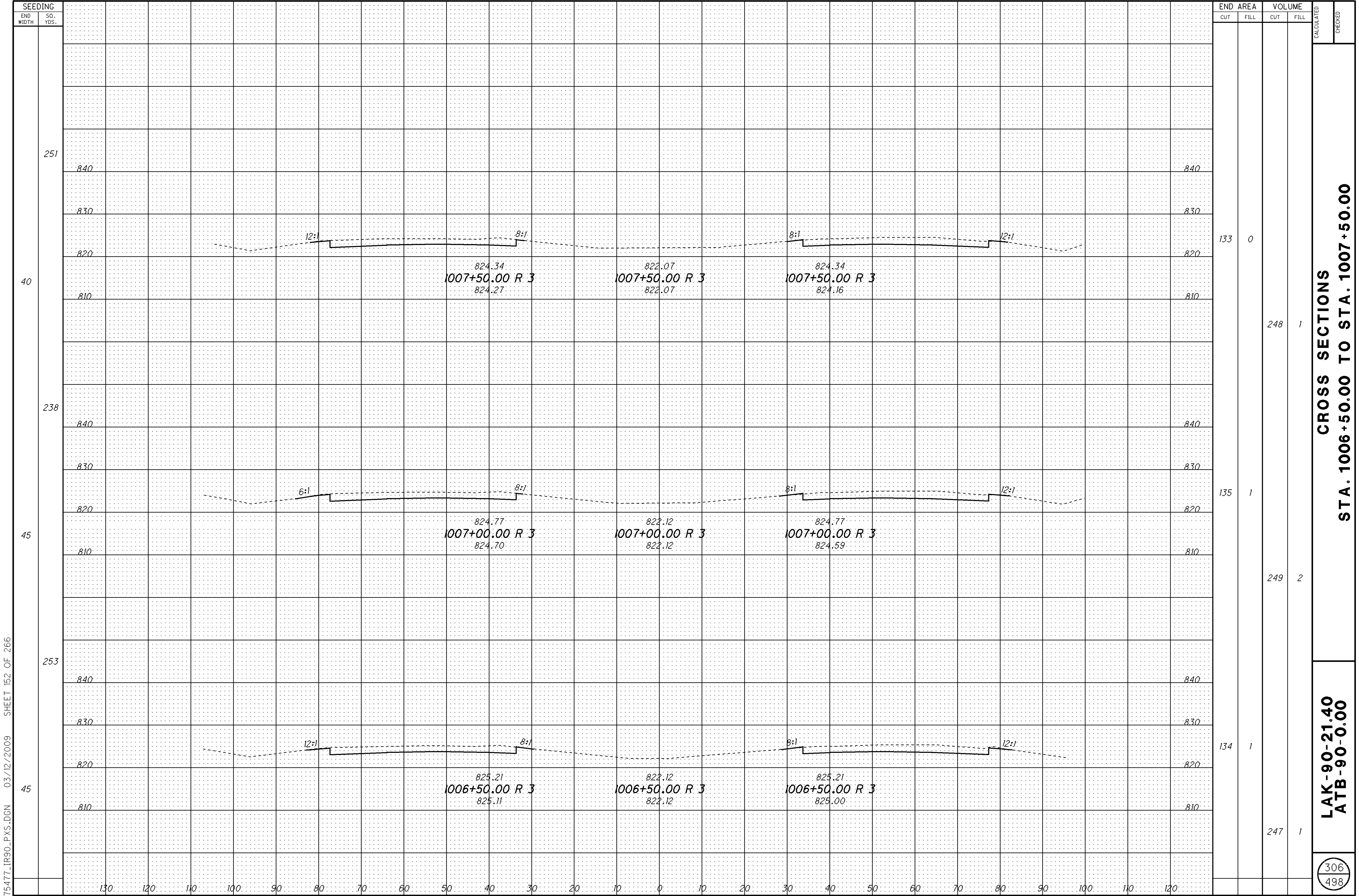
$$\frac{300}{498}$$

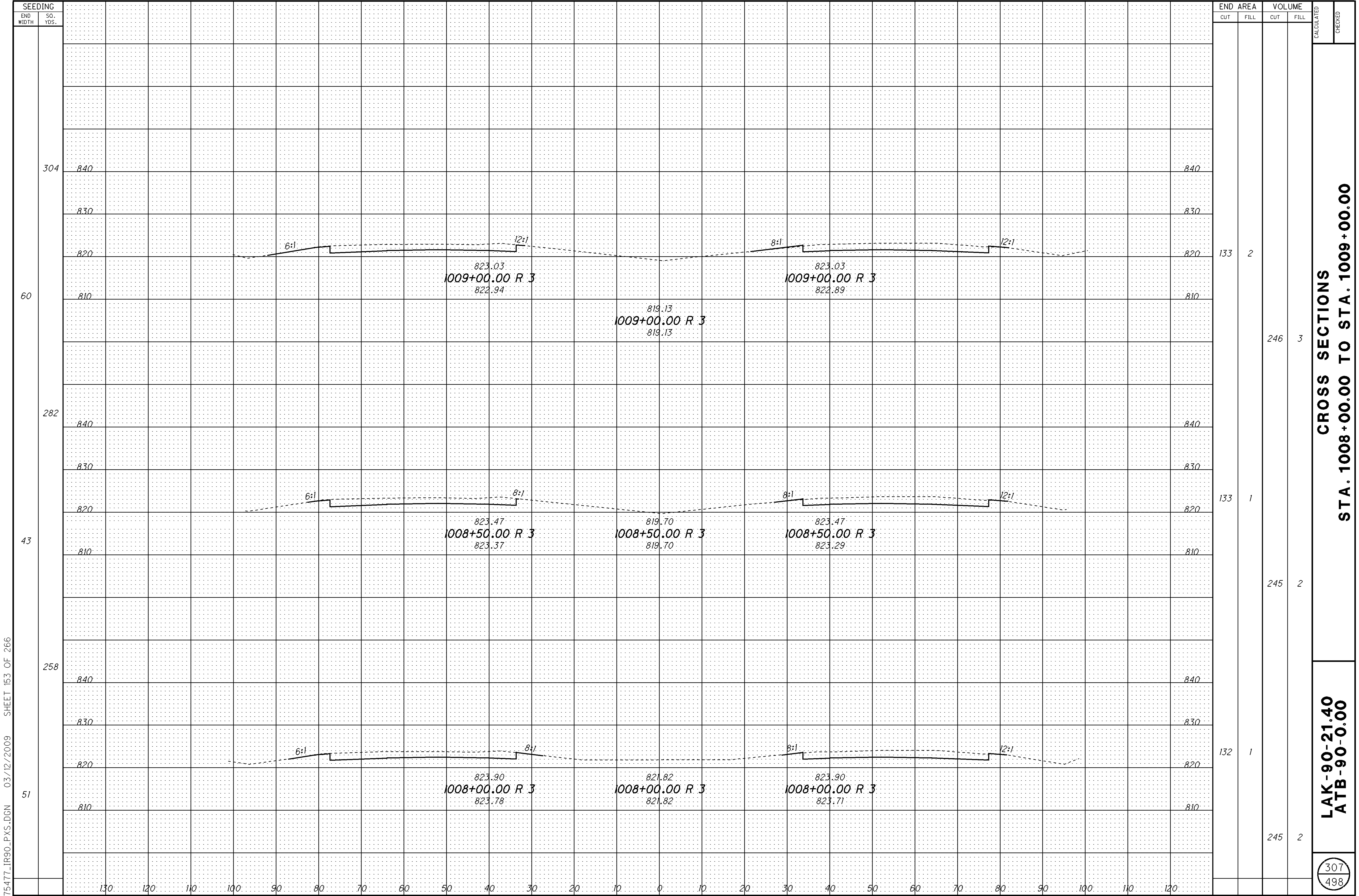


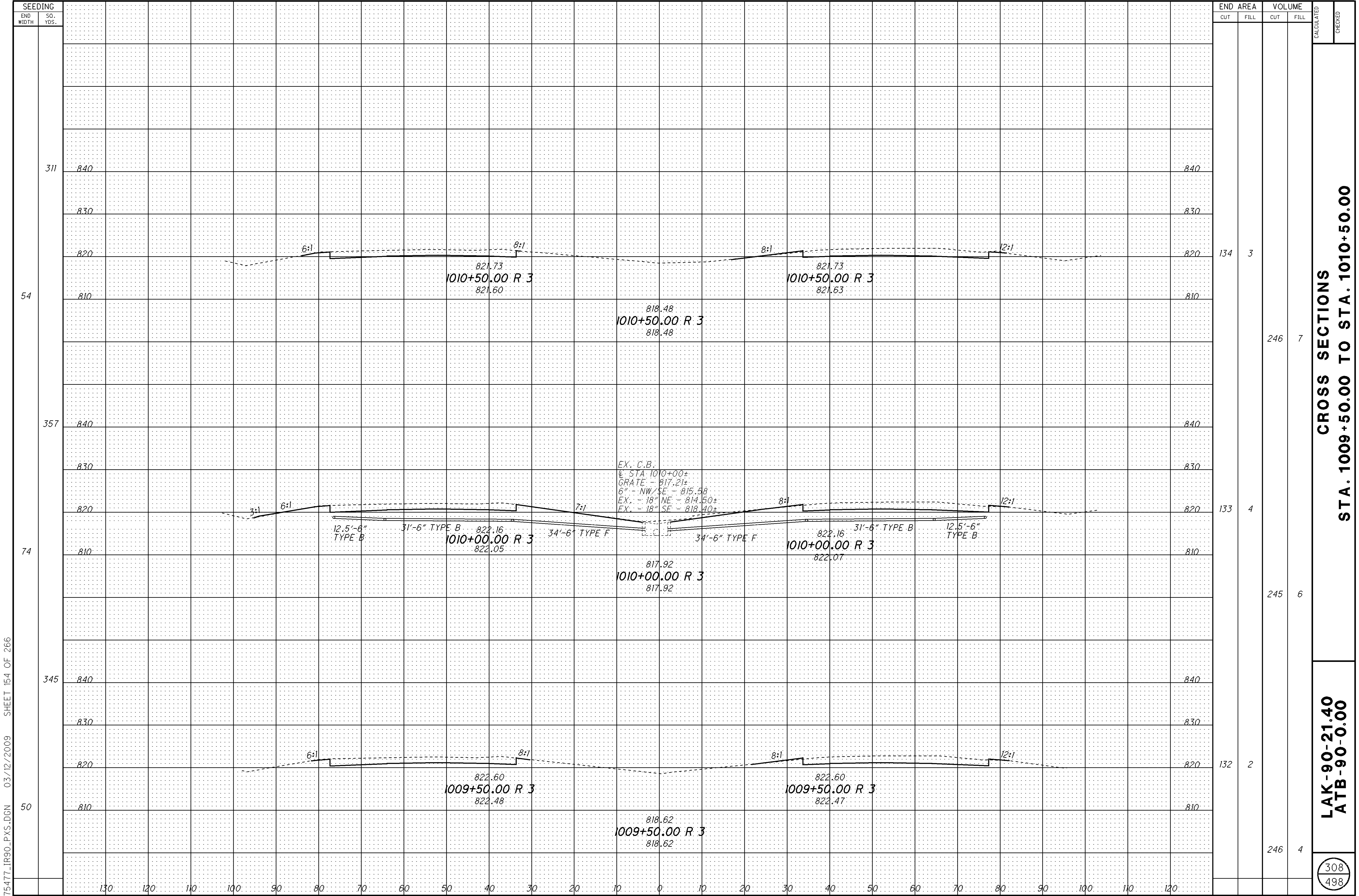


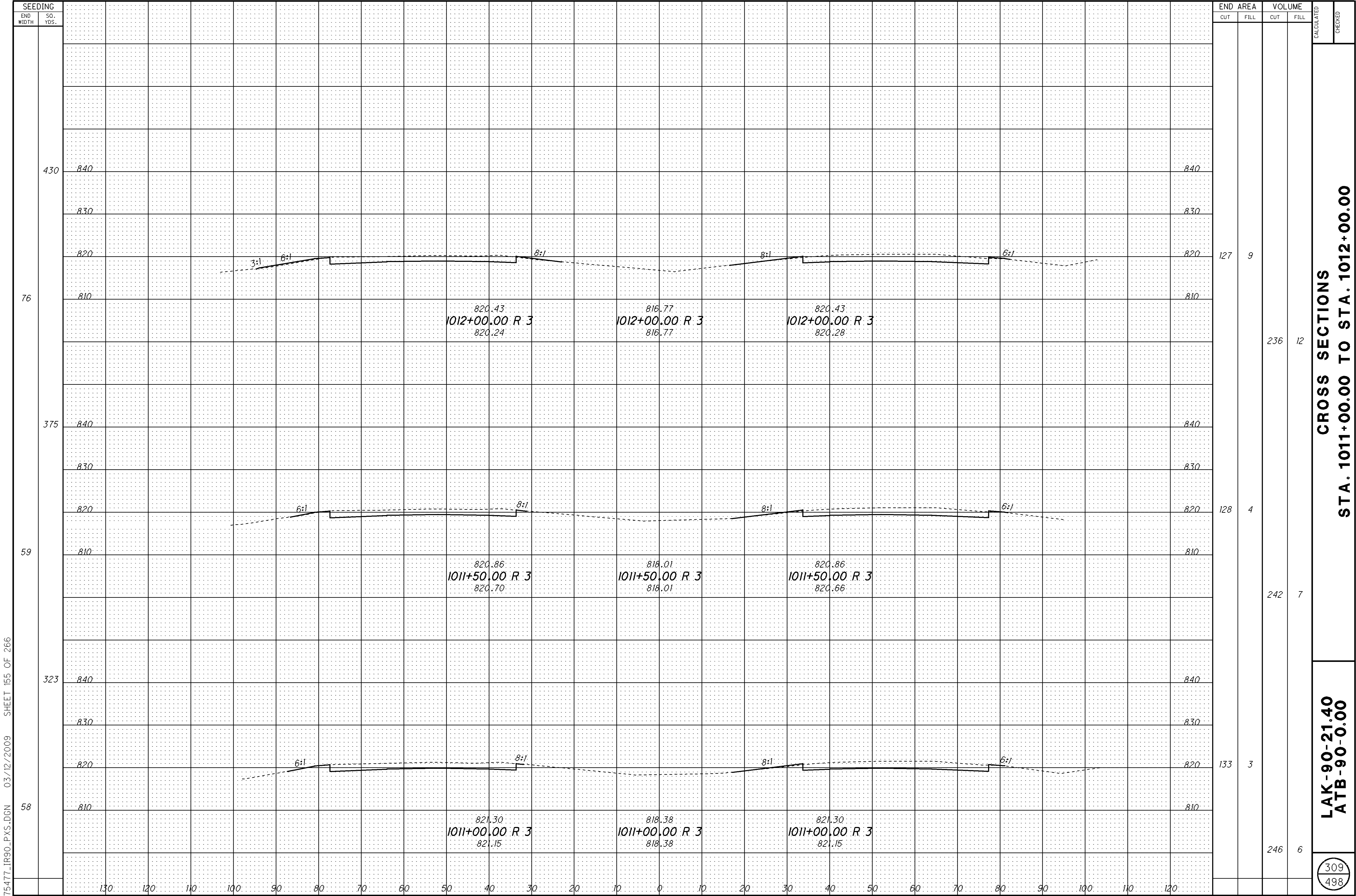




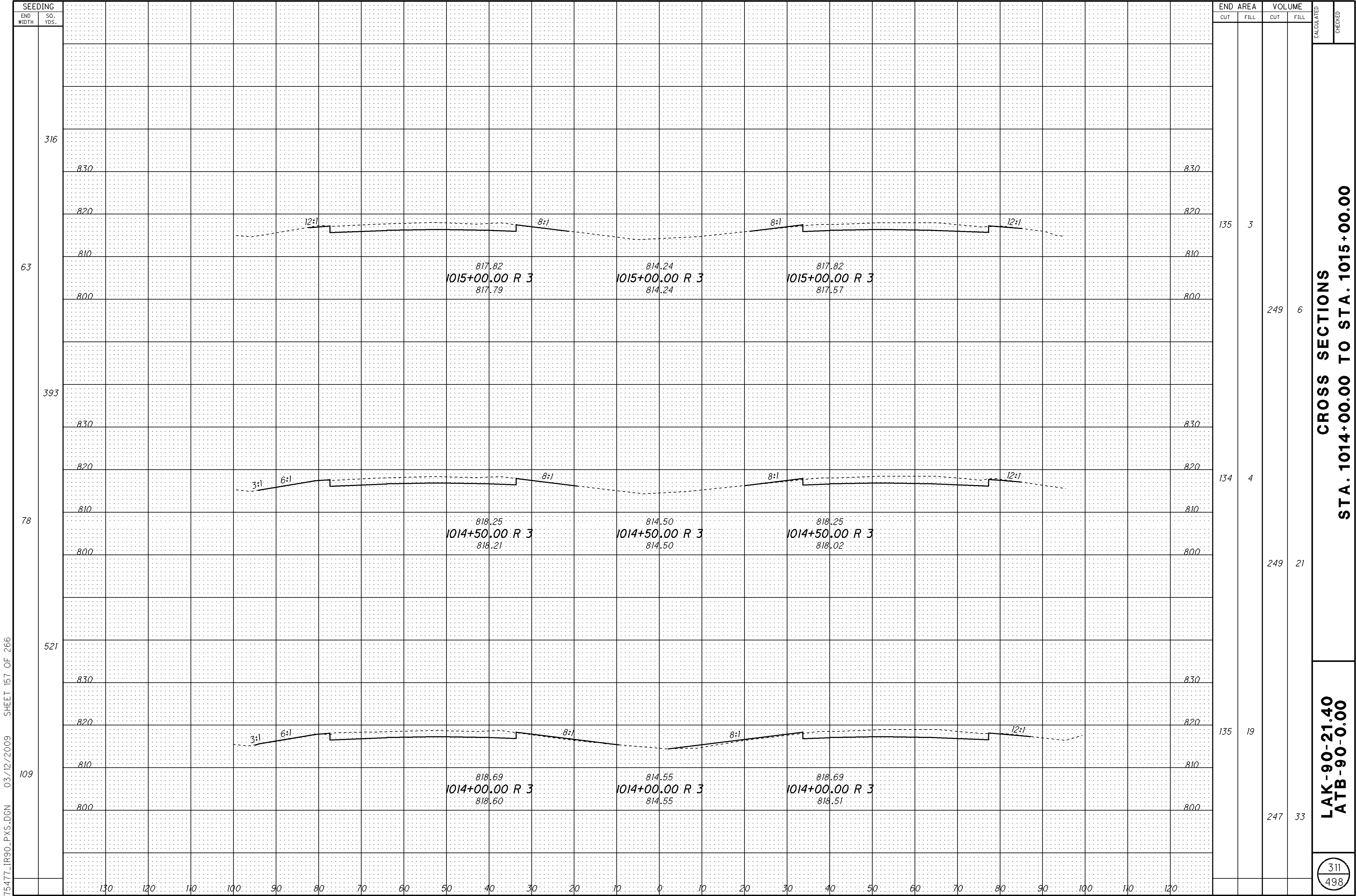


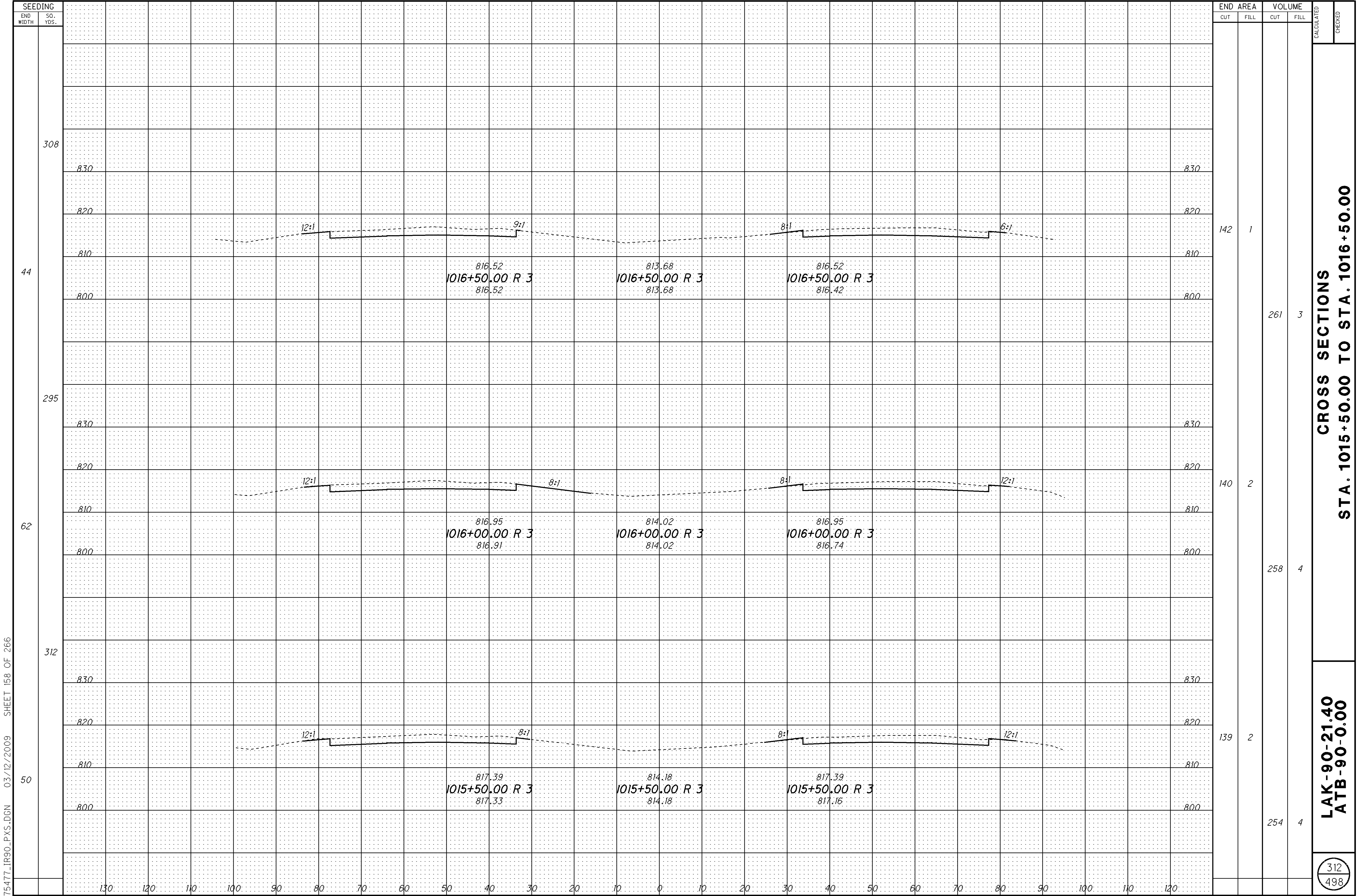


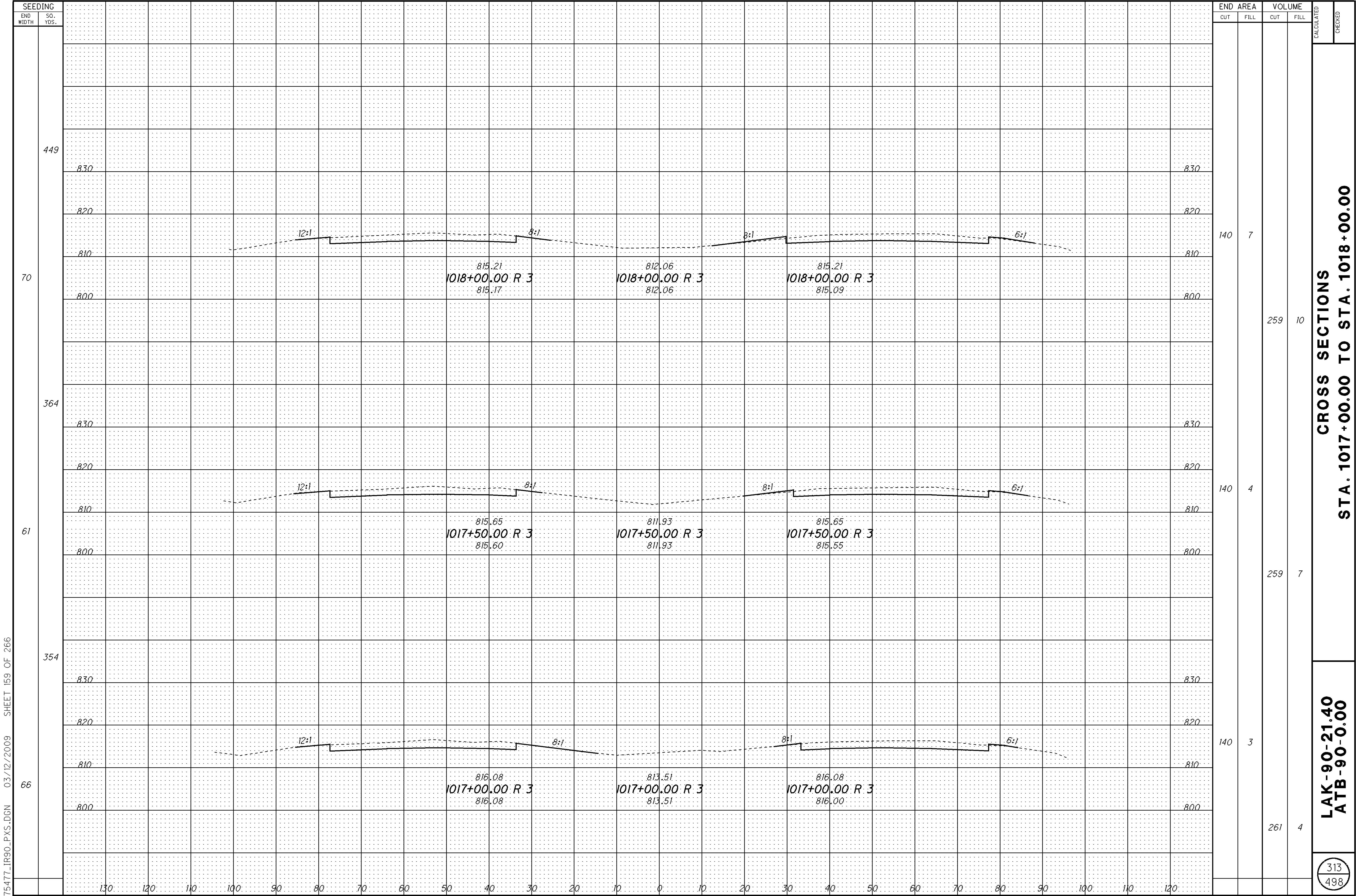


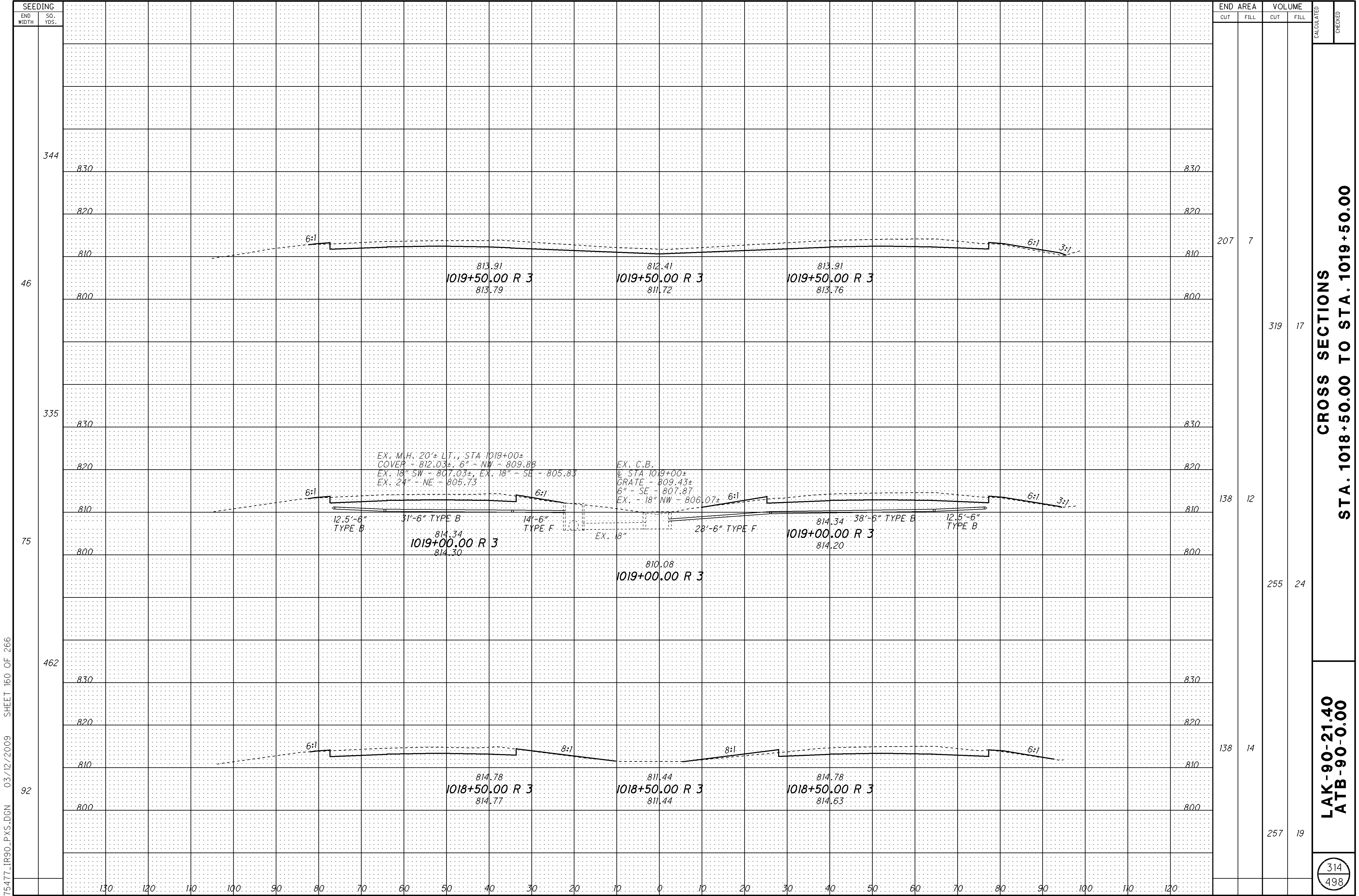


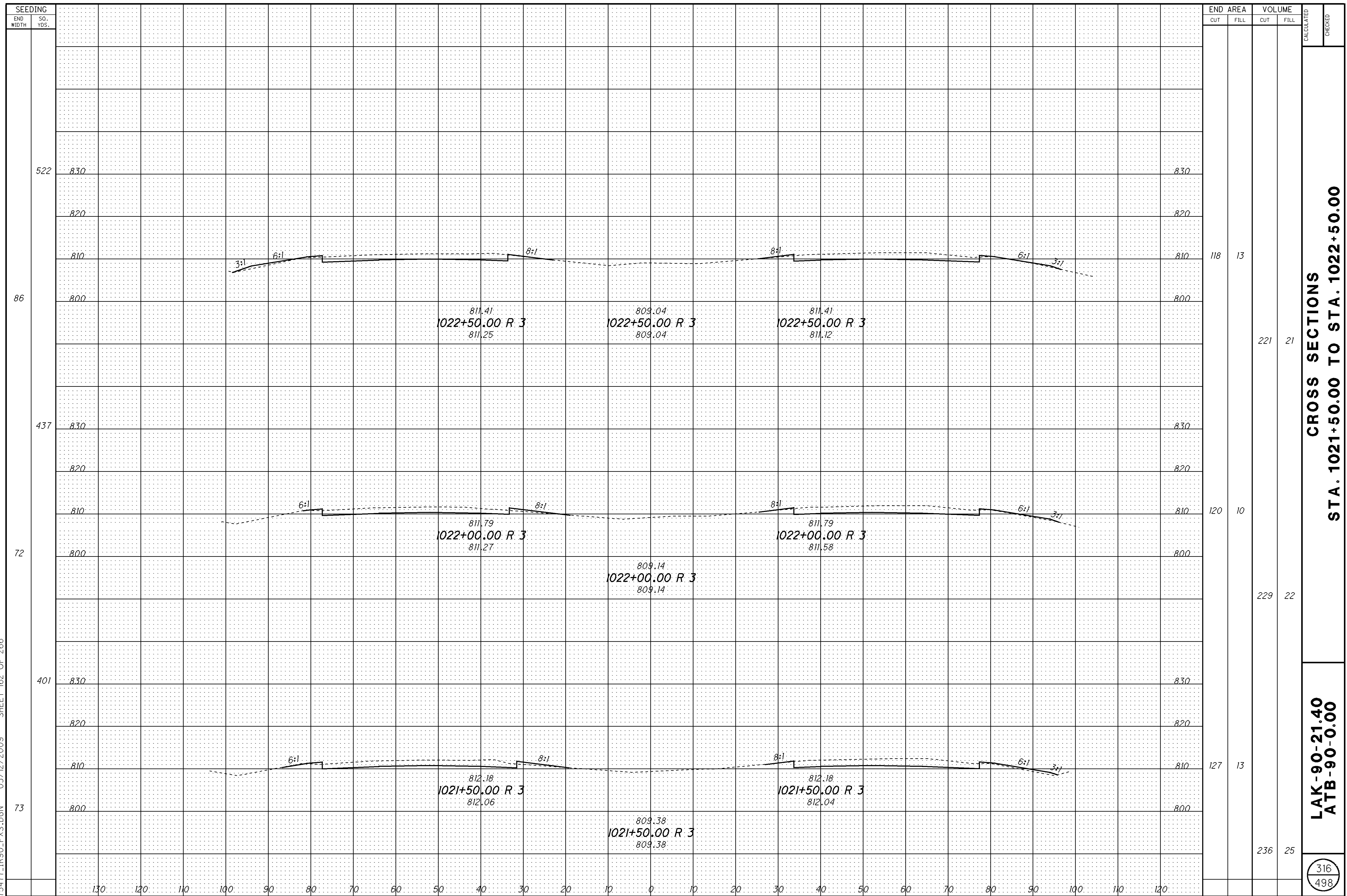
[illegible]



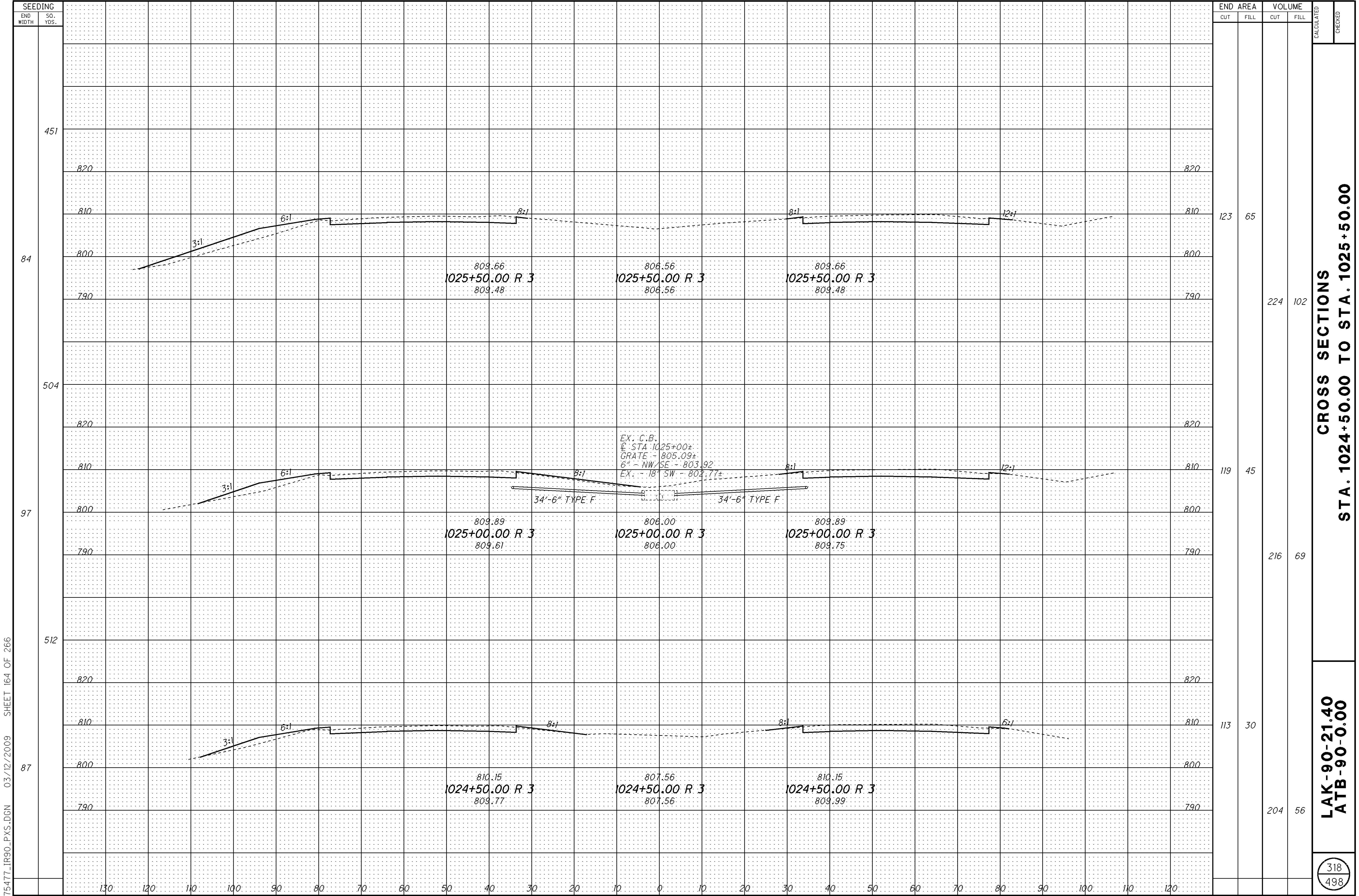


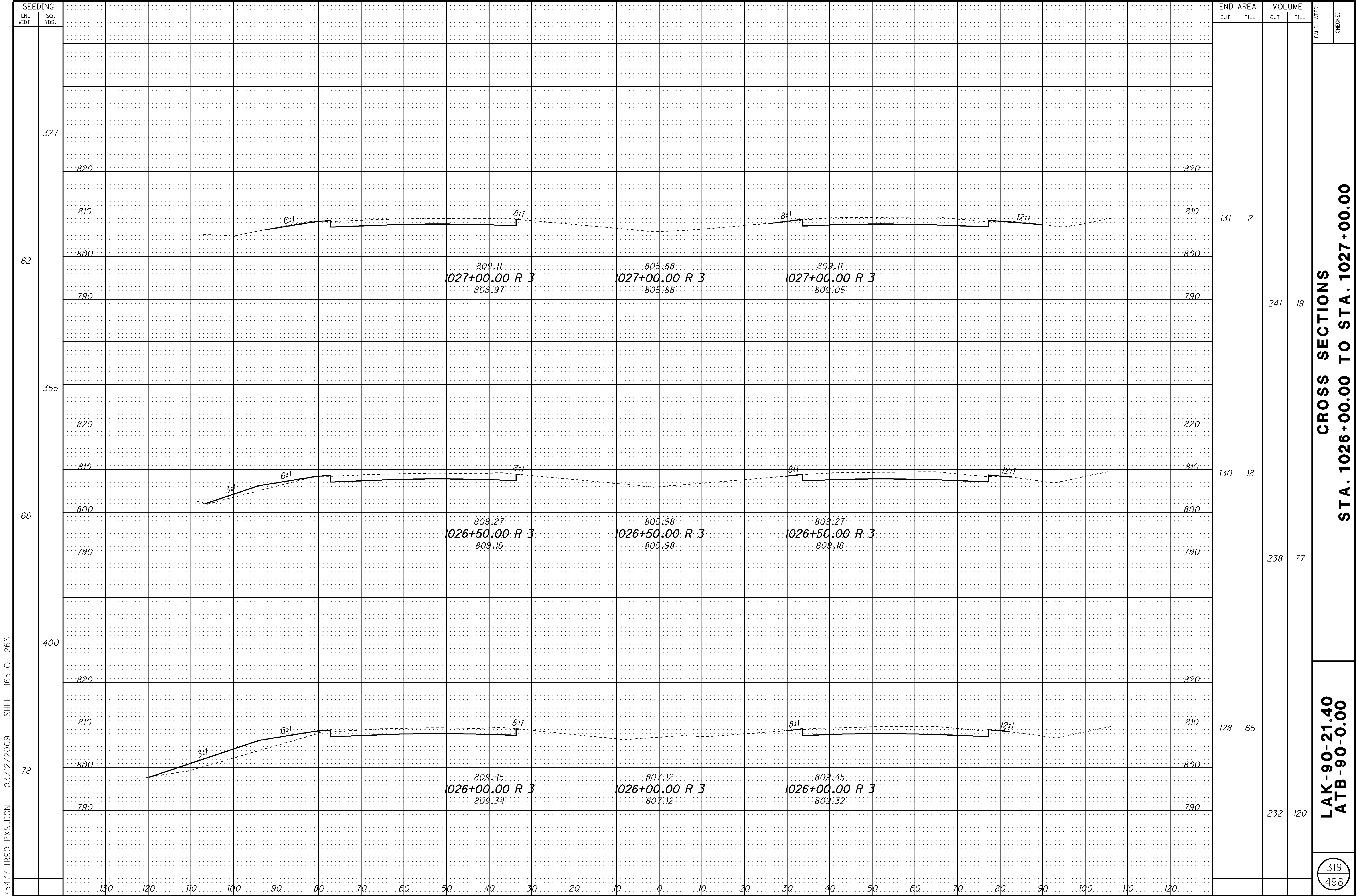


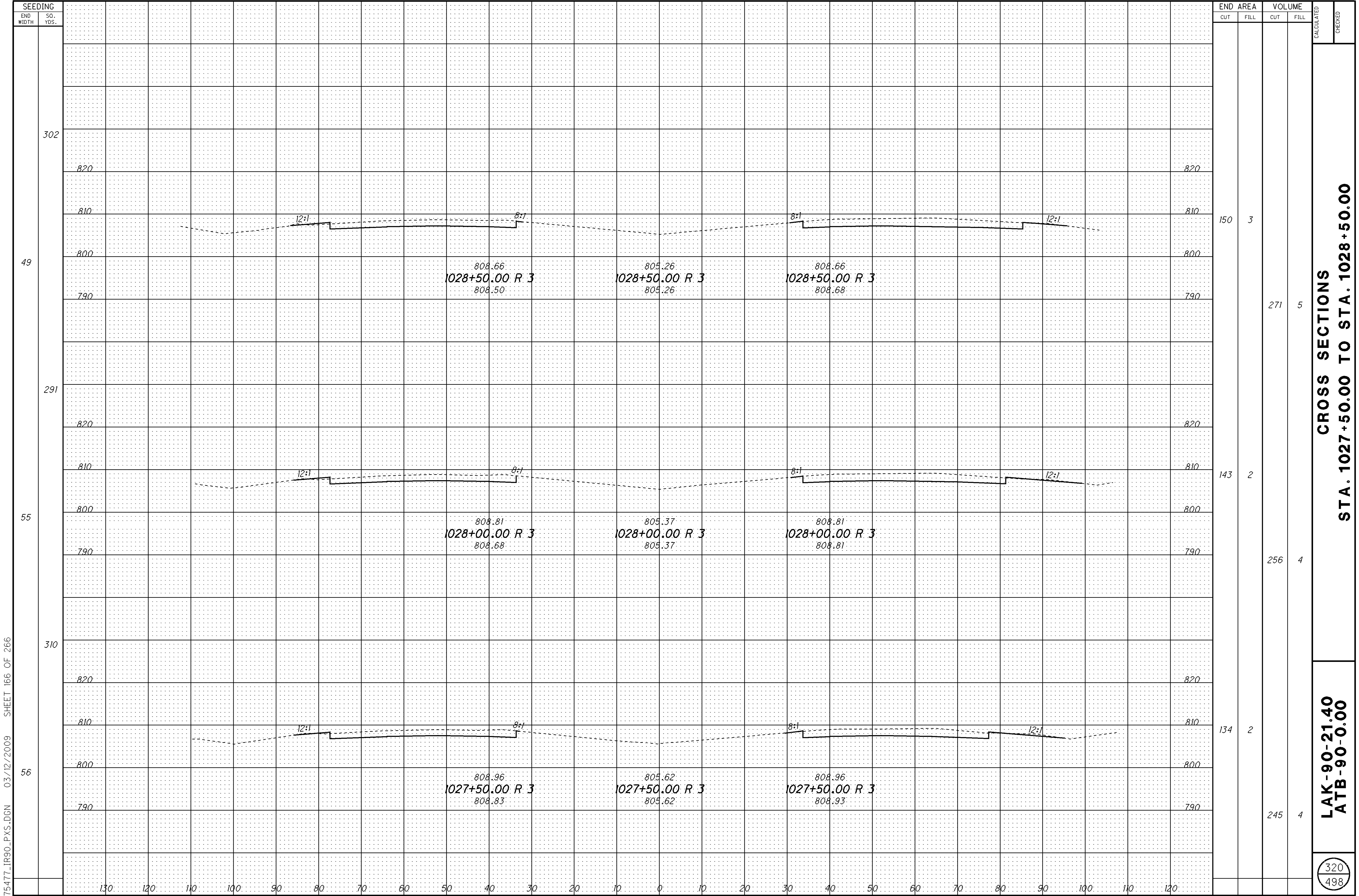


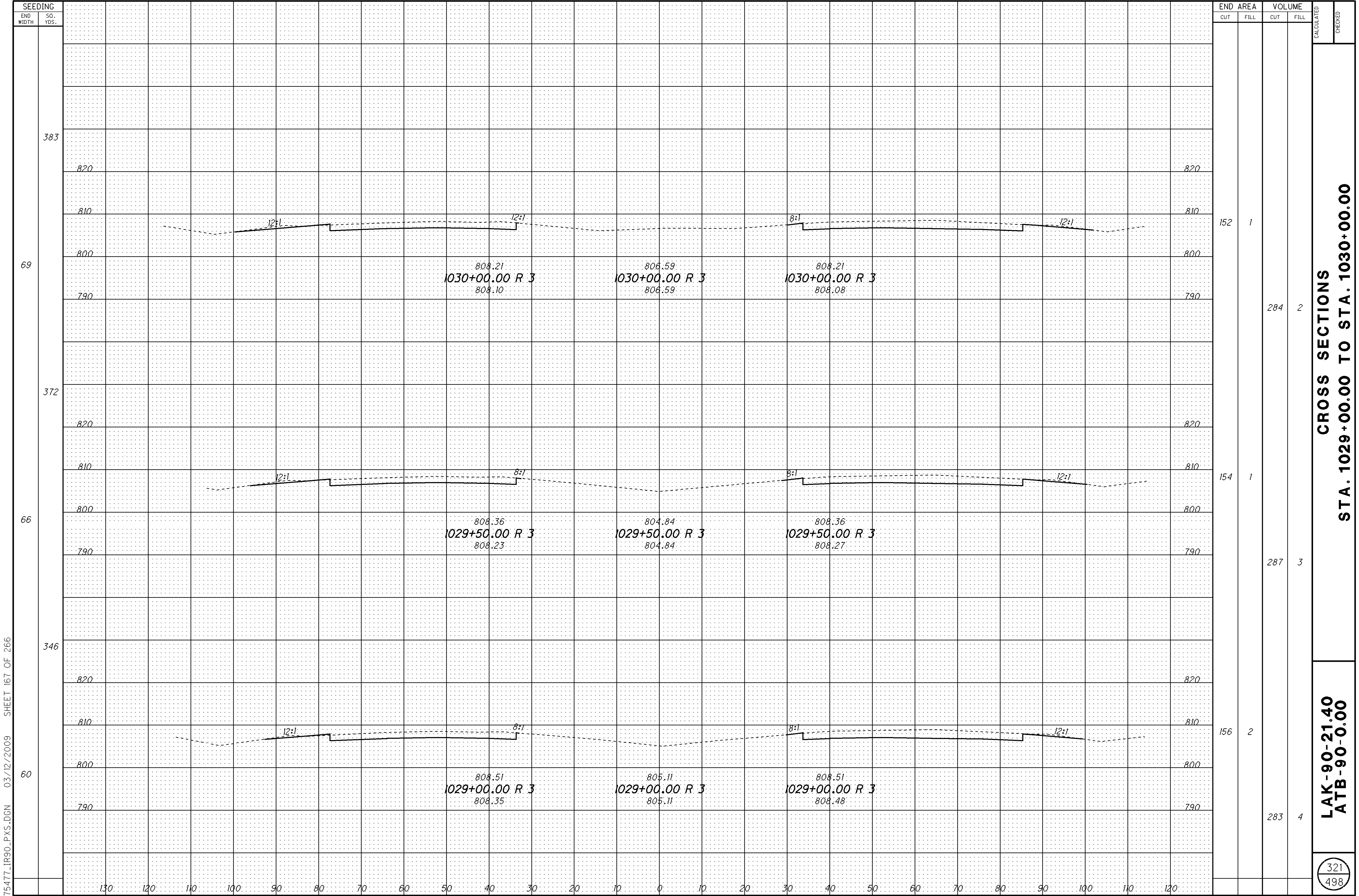


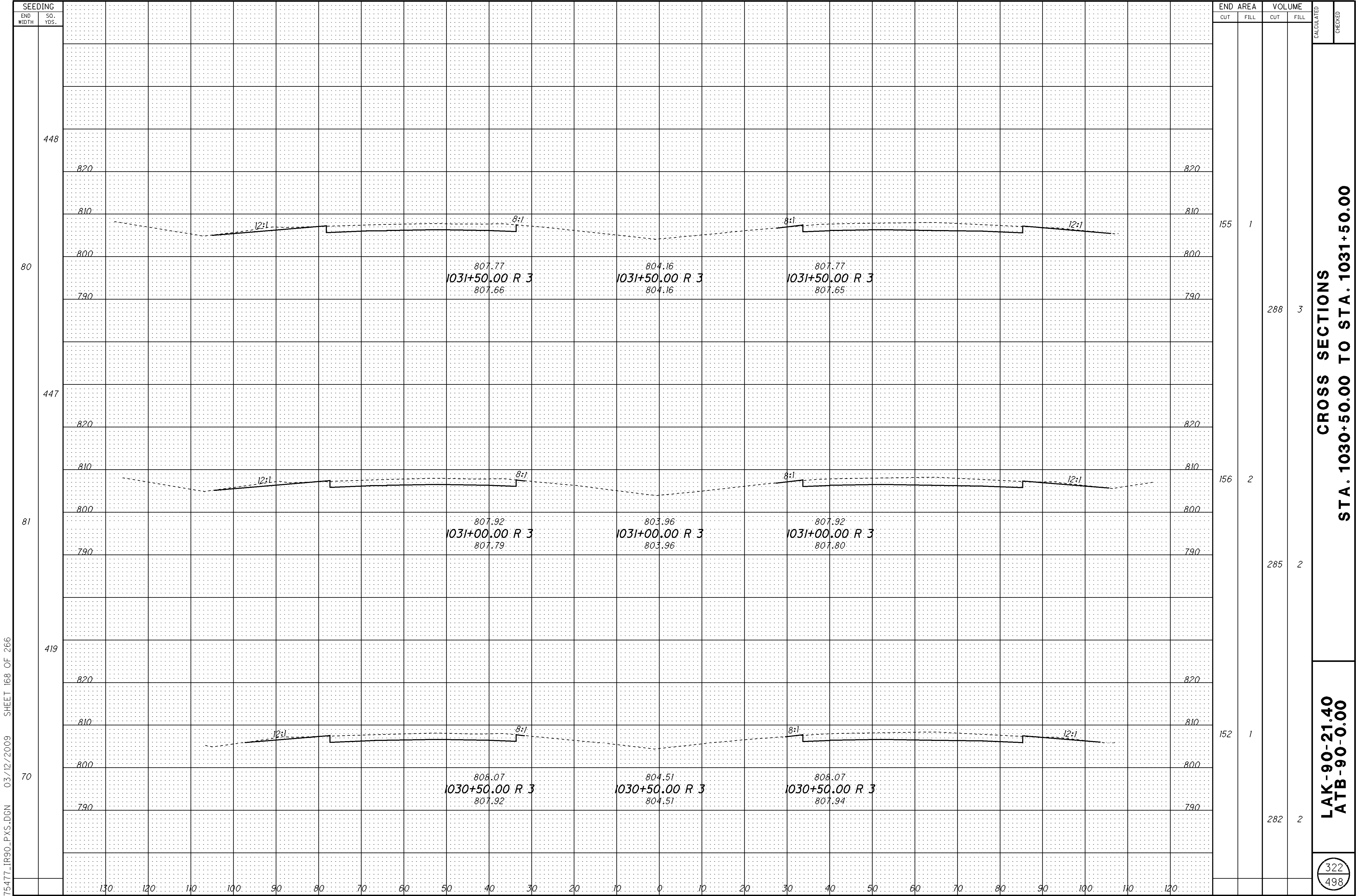
317
498

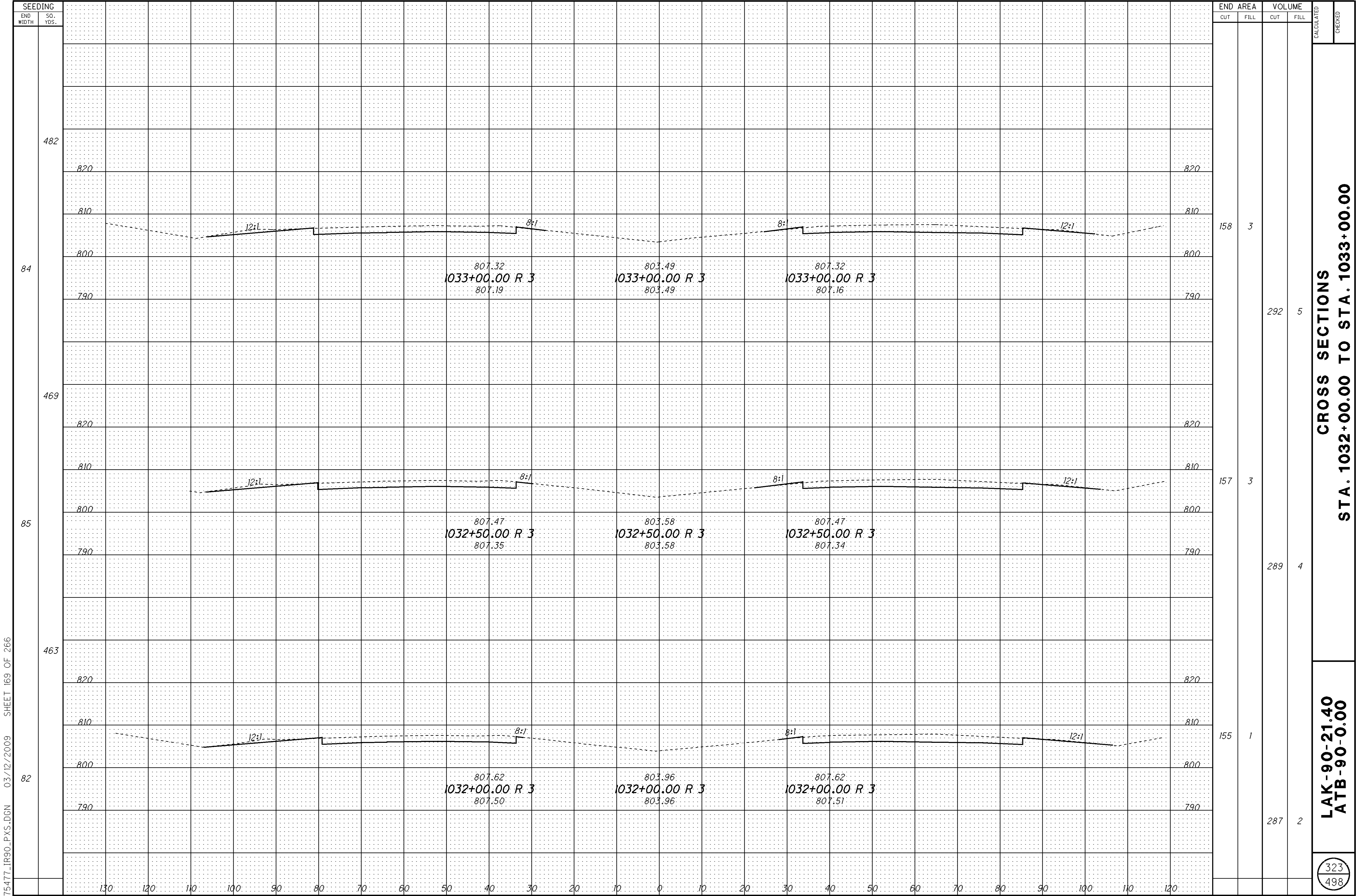




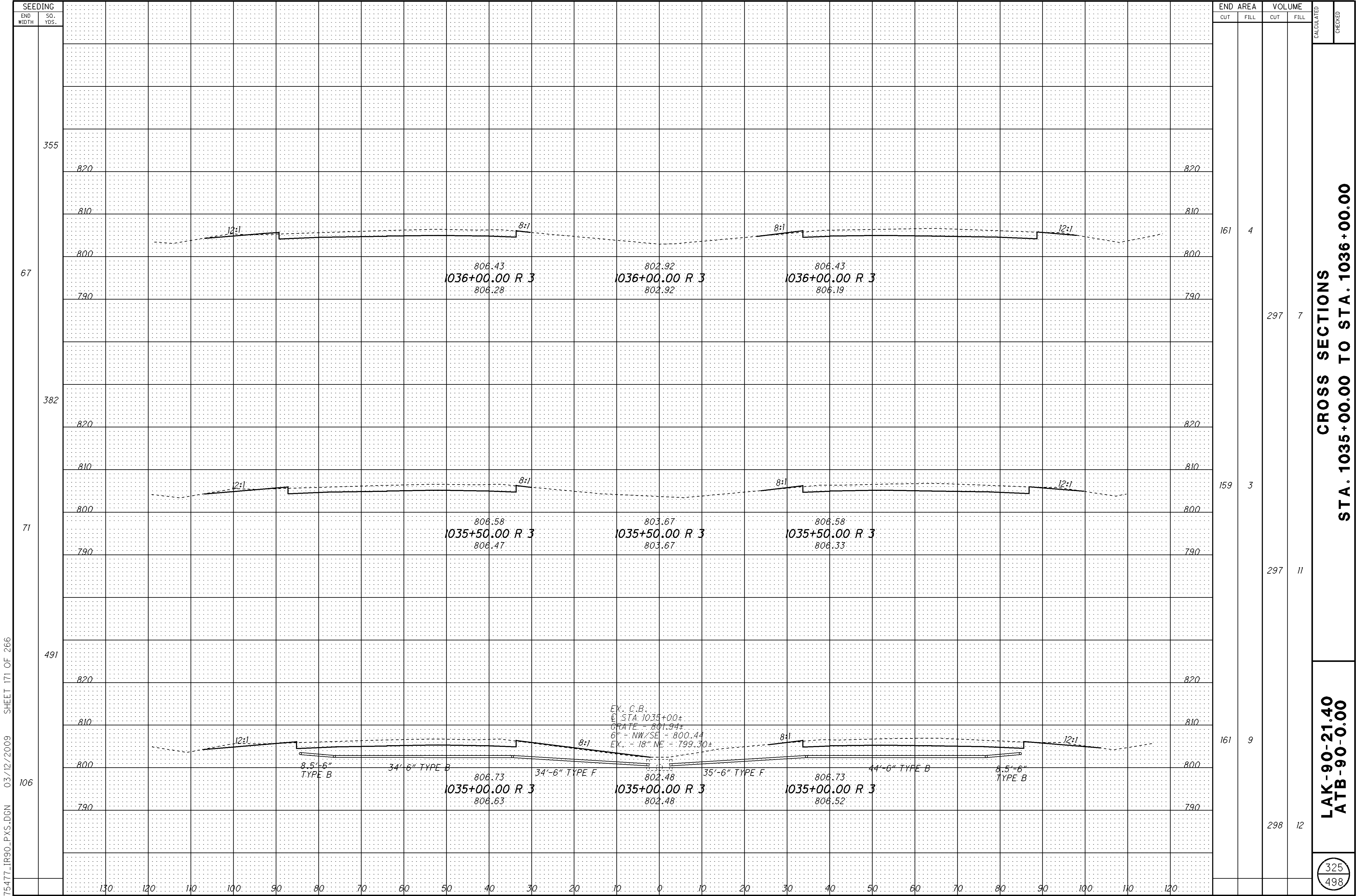


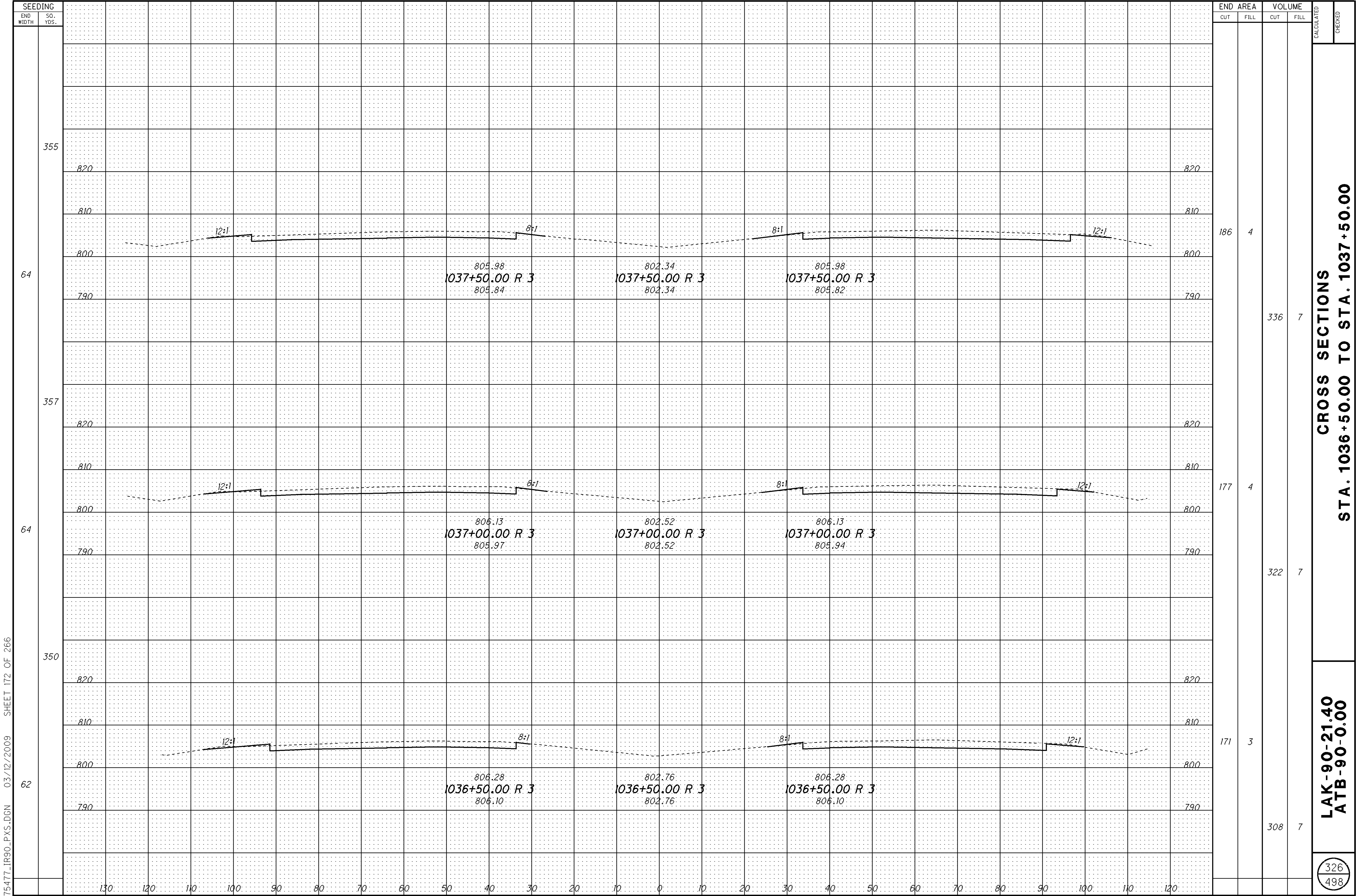


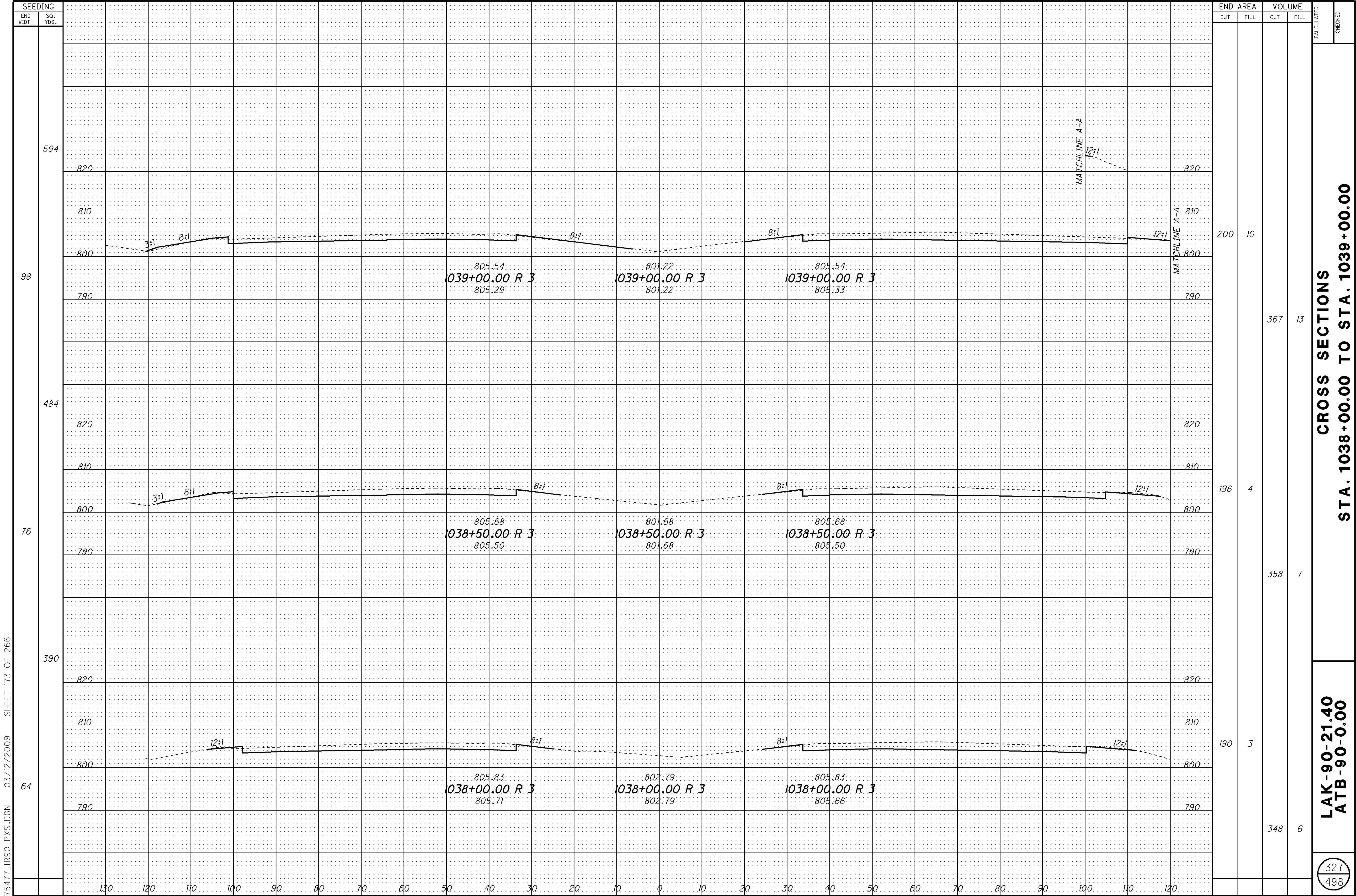


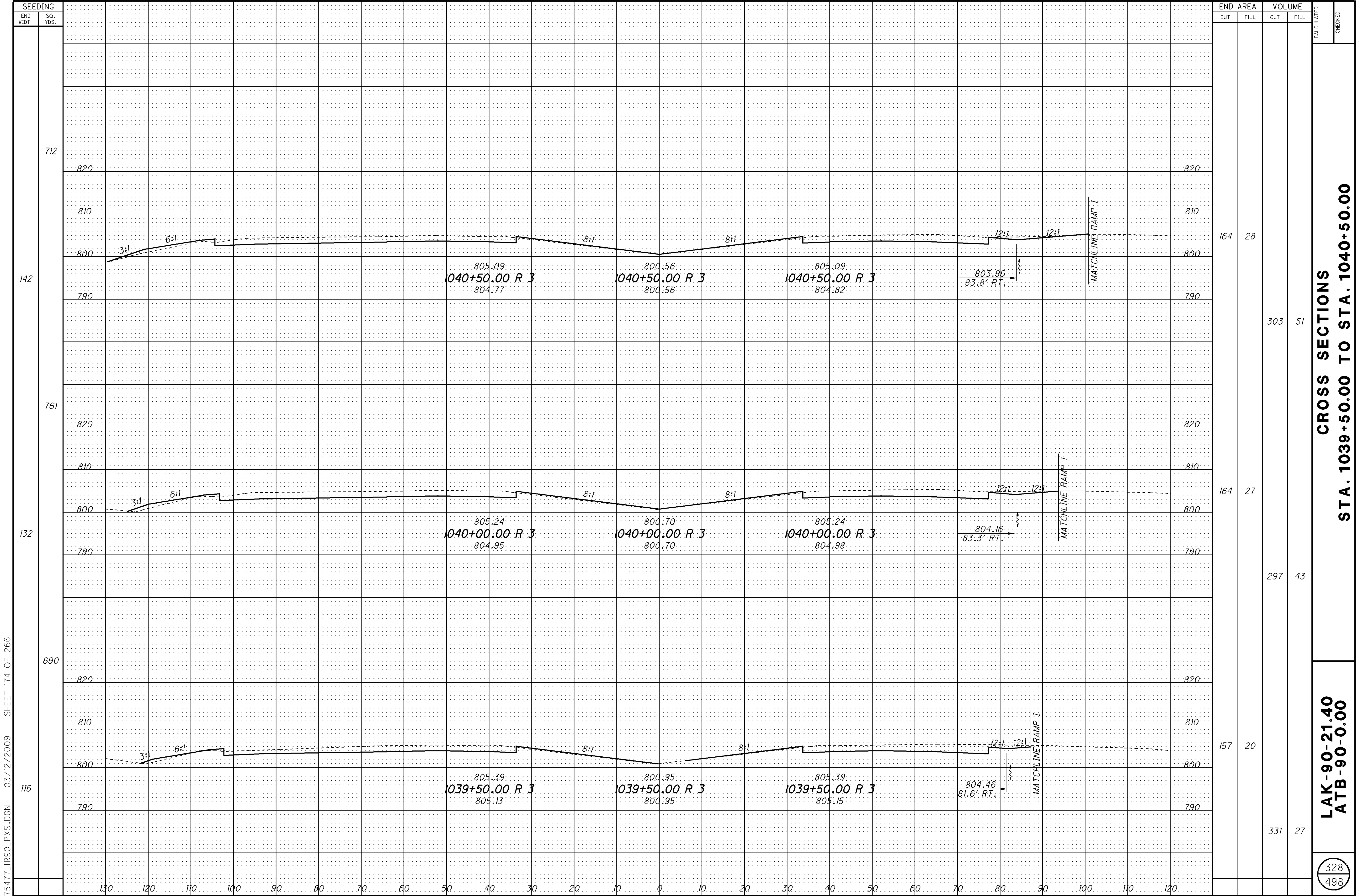


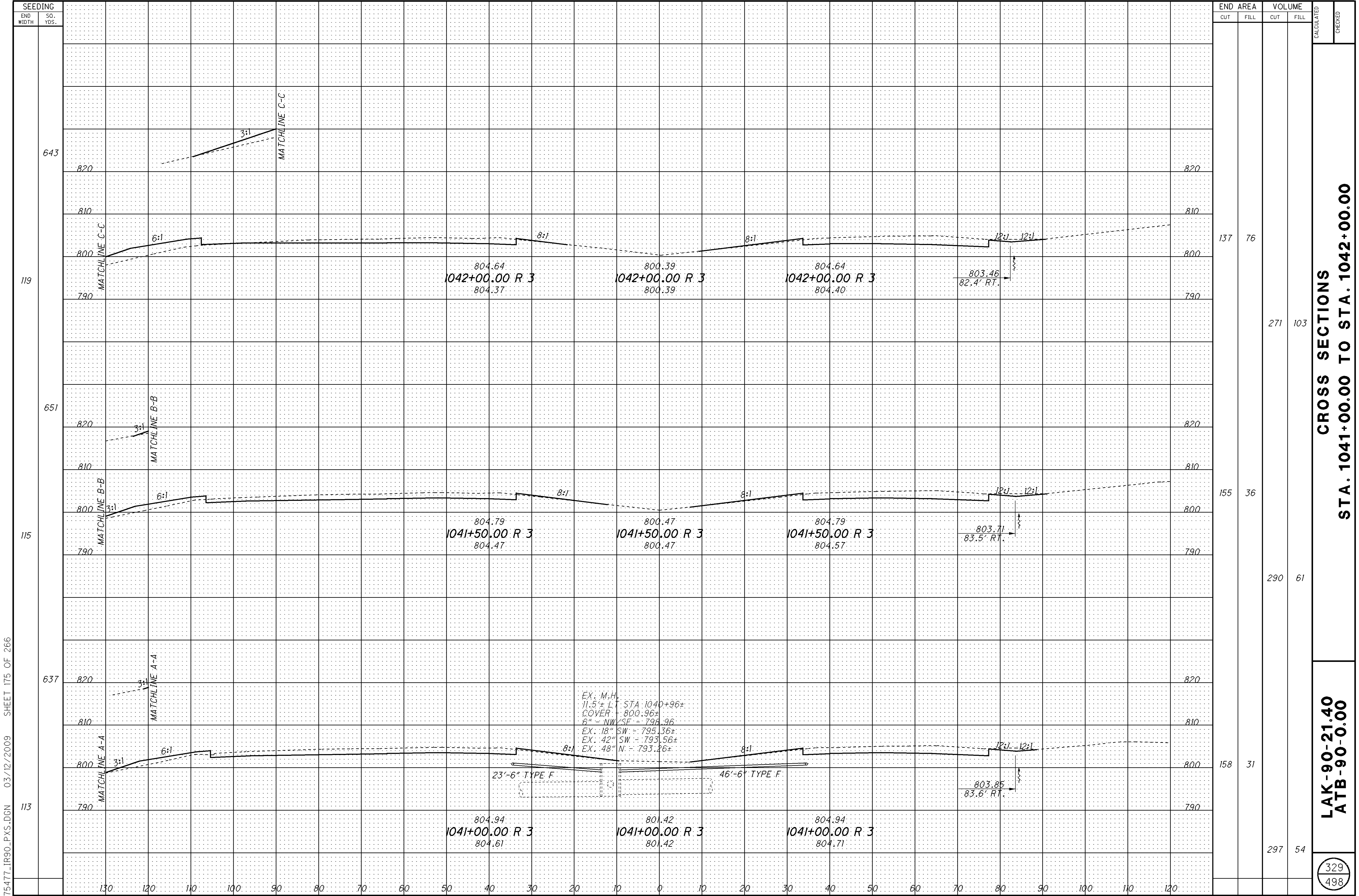
[illegible]

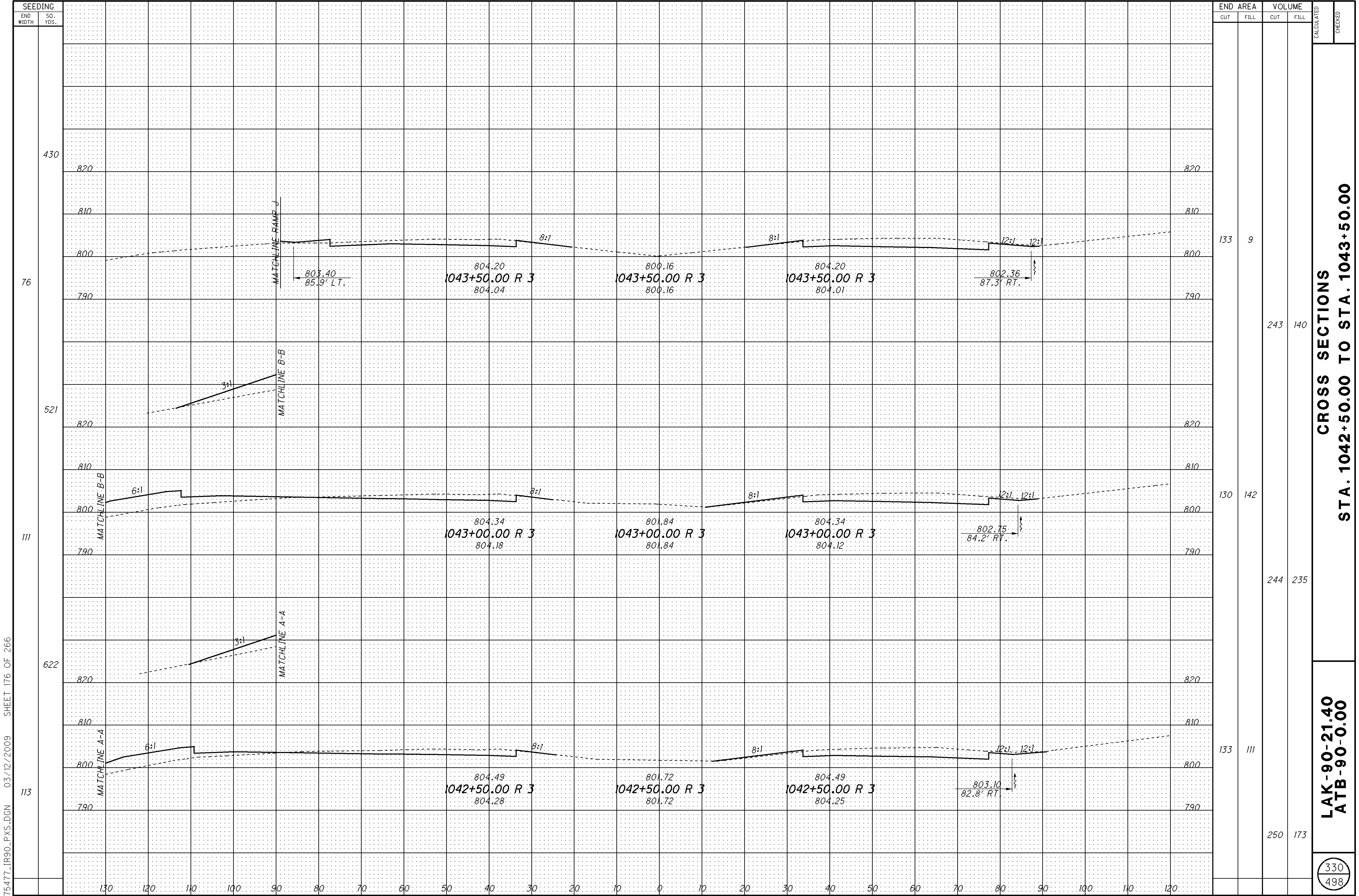


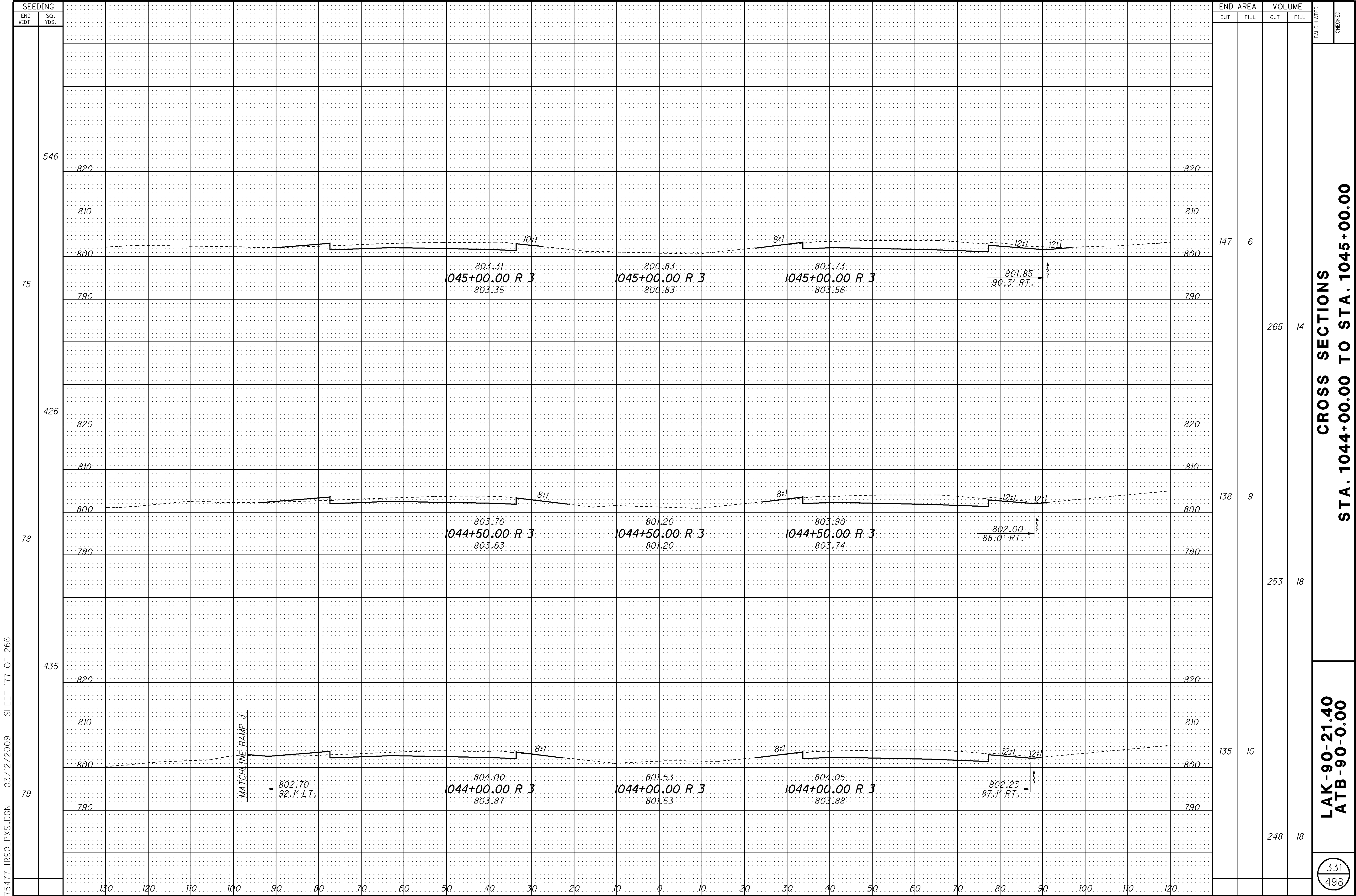








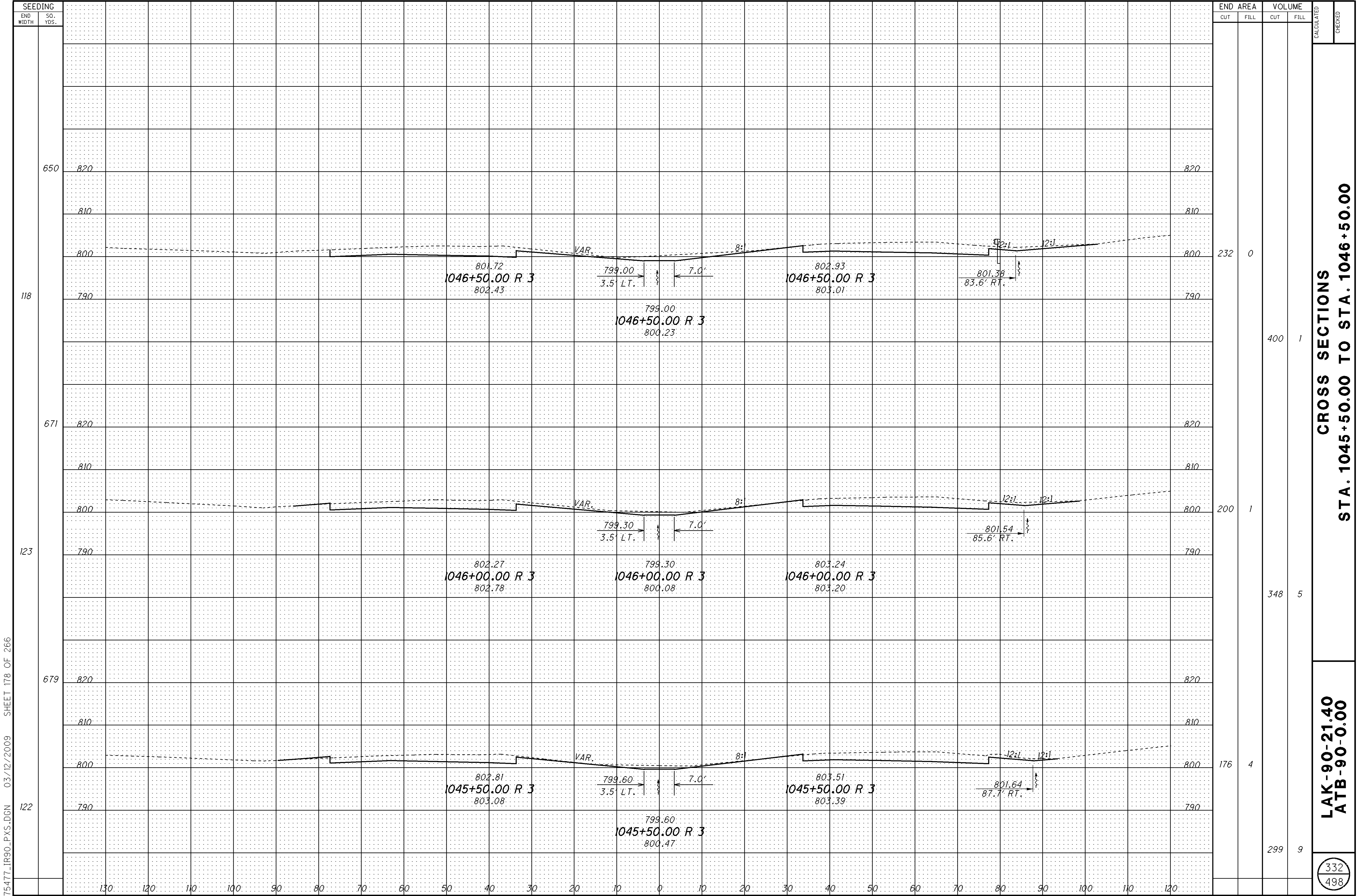


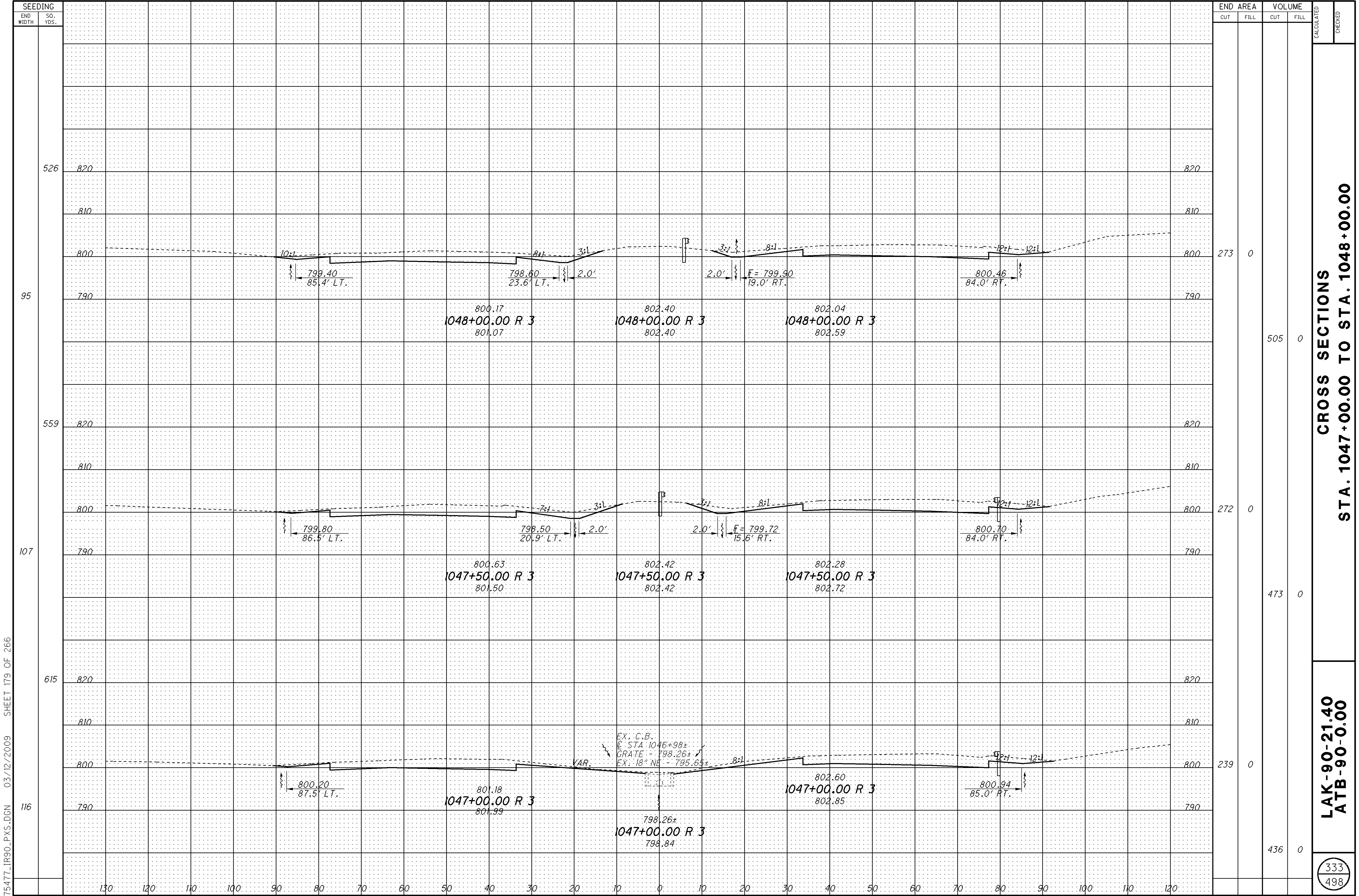


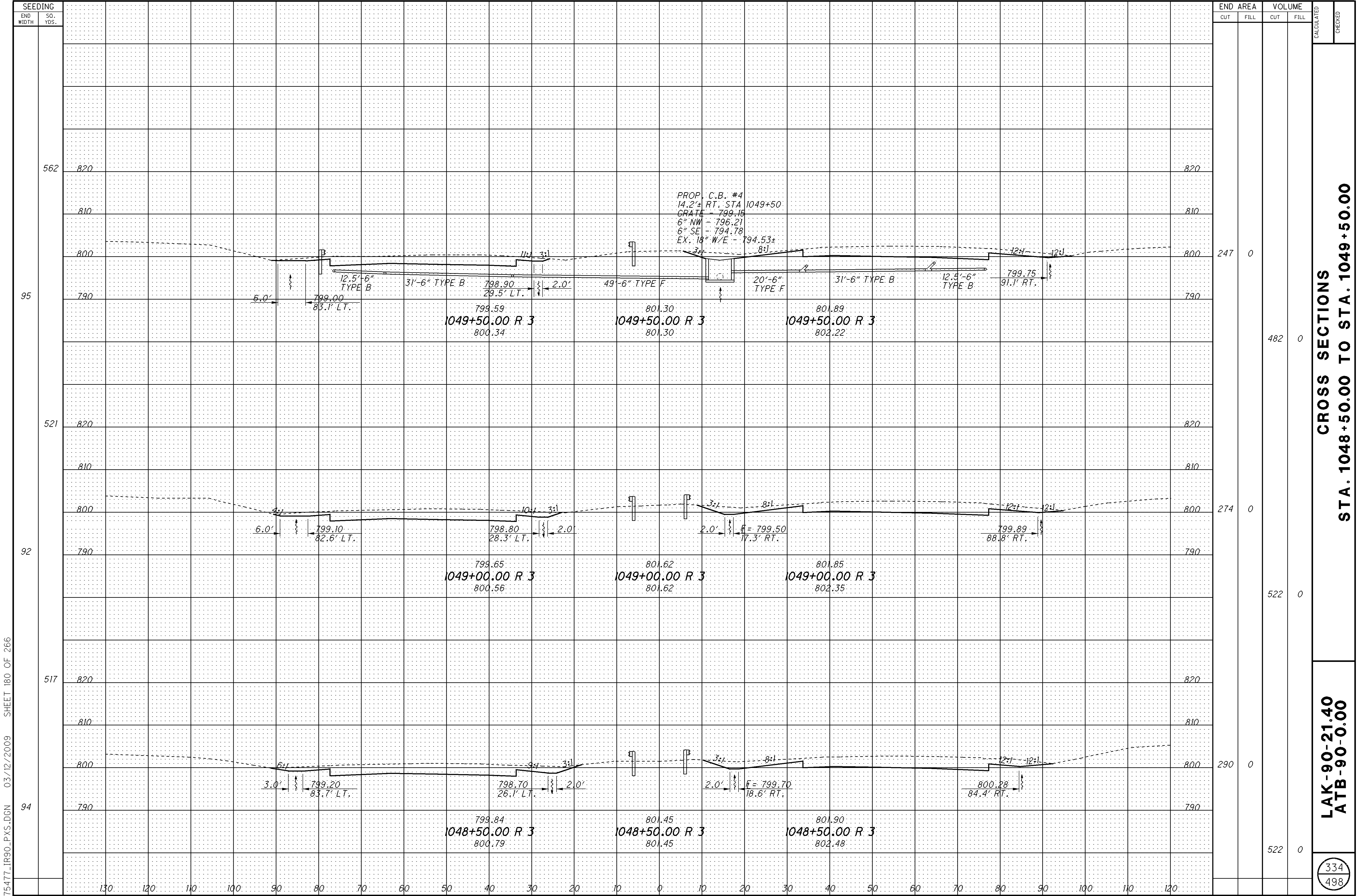
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CROSS SECTIONS
STA. 1044+00.00 TO STA. 1045+00.00

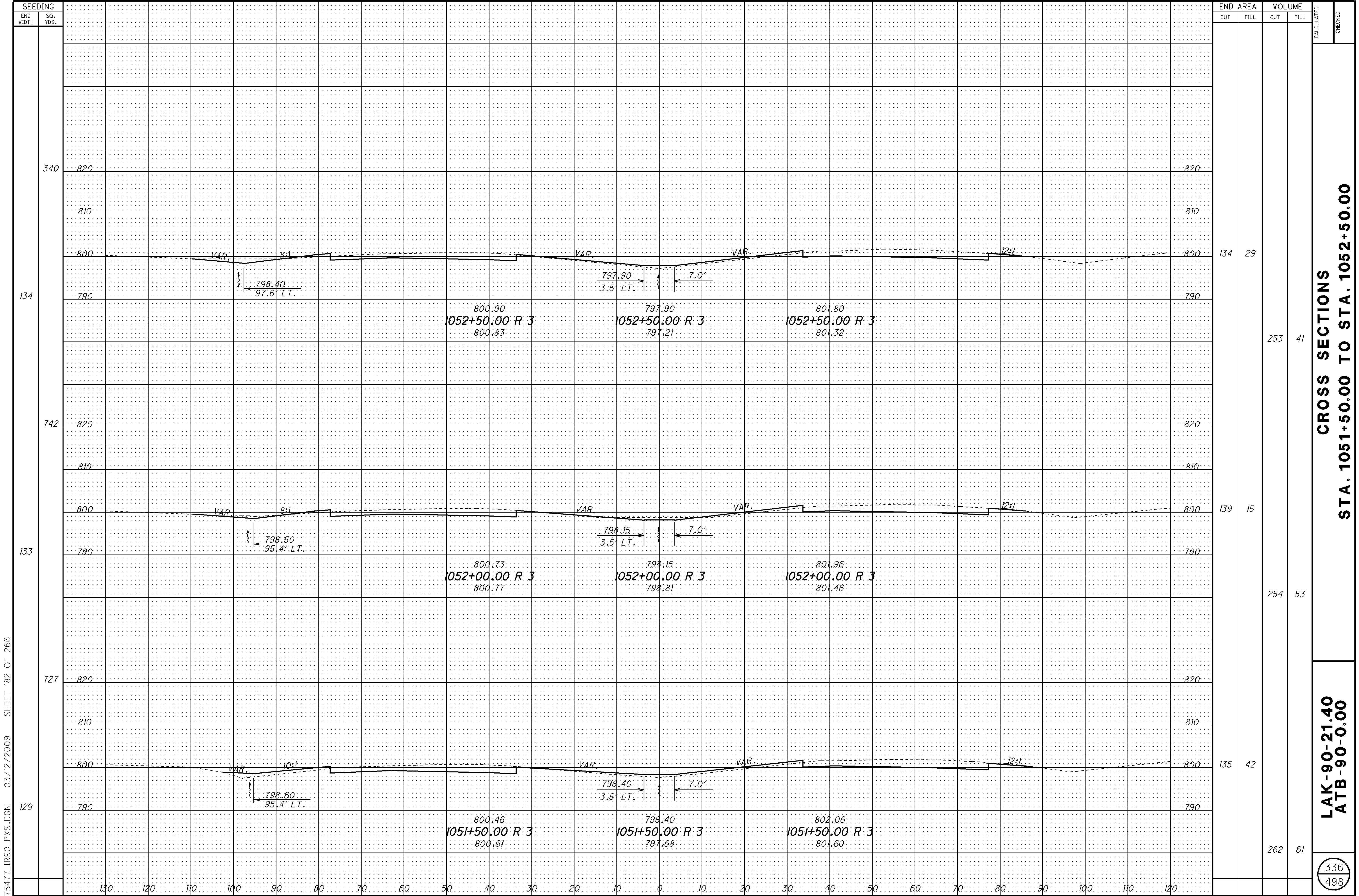
LAK-90-21.40
ATB-90-0.00

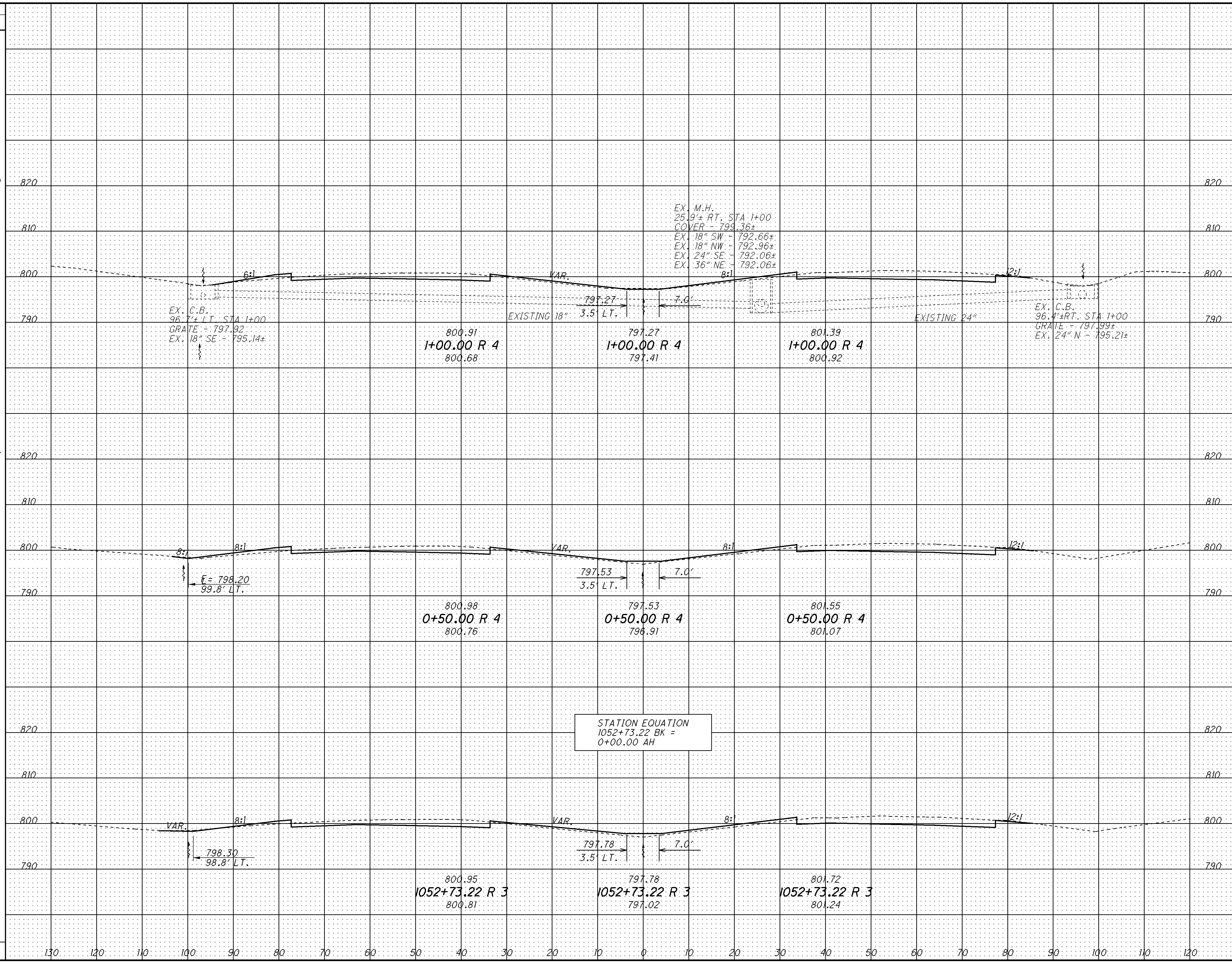




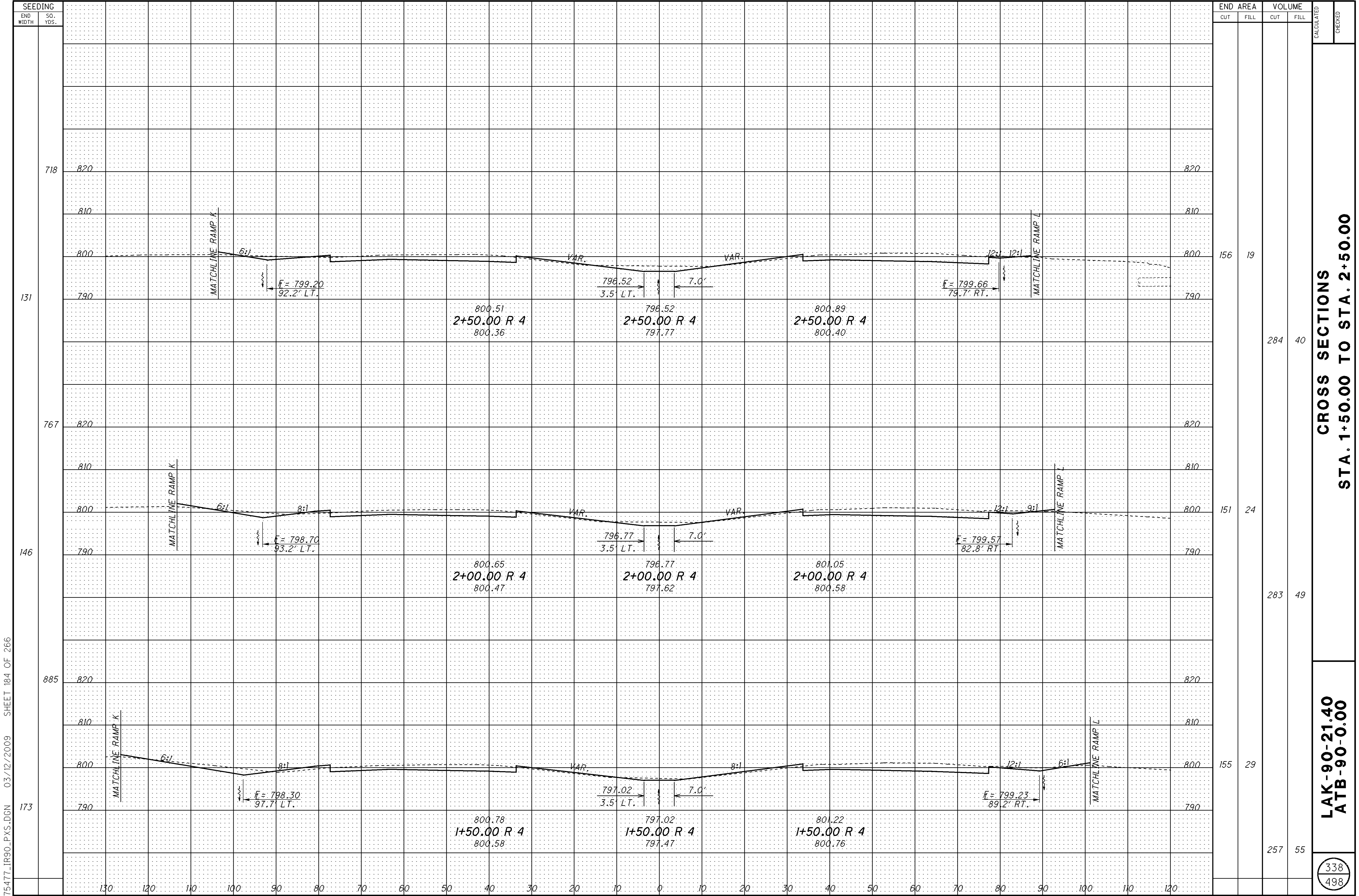


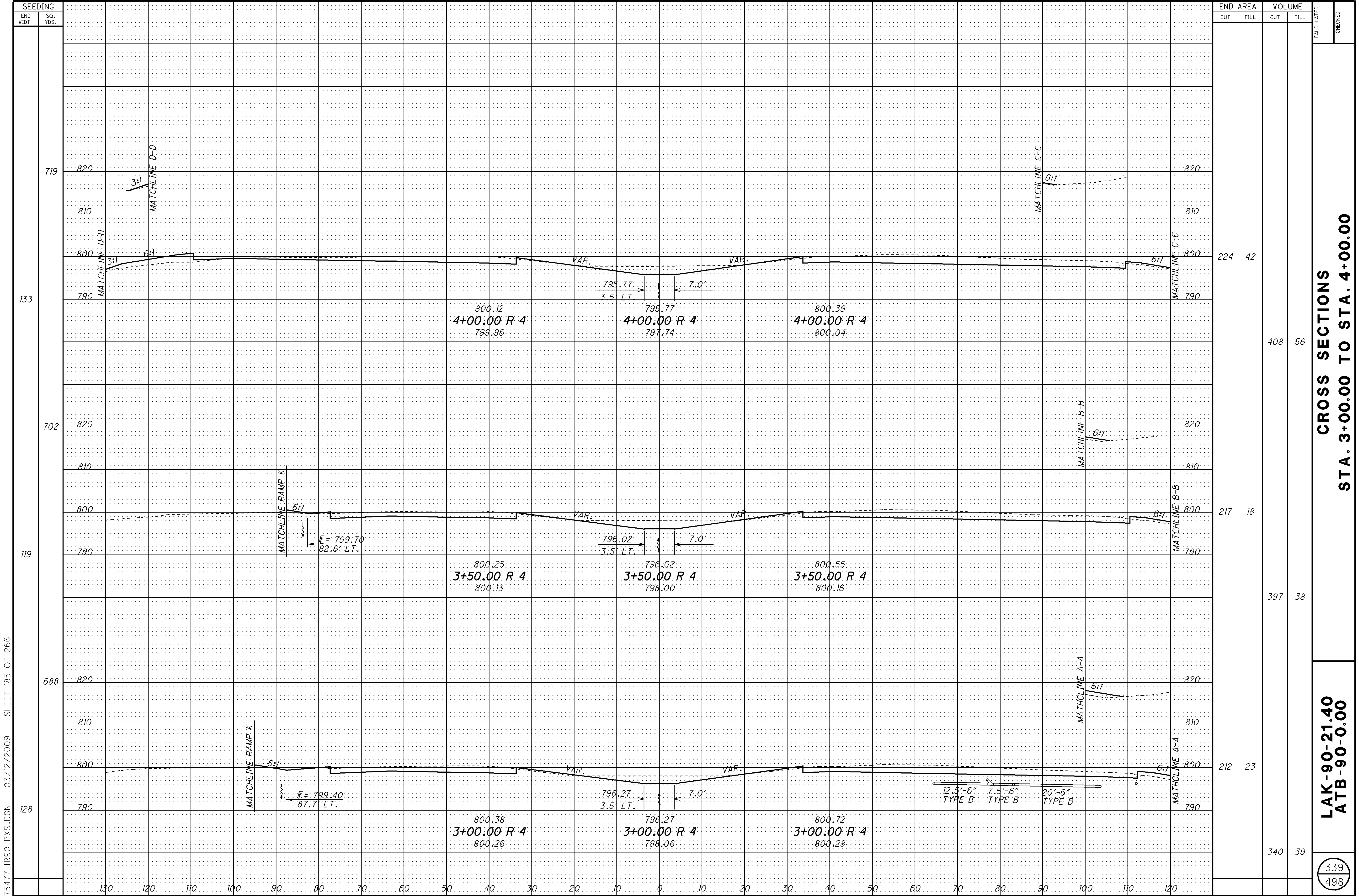
$$\frac{335}{498}$$

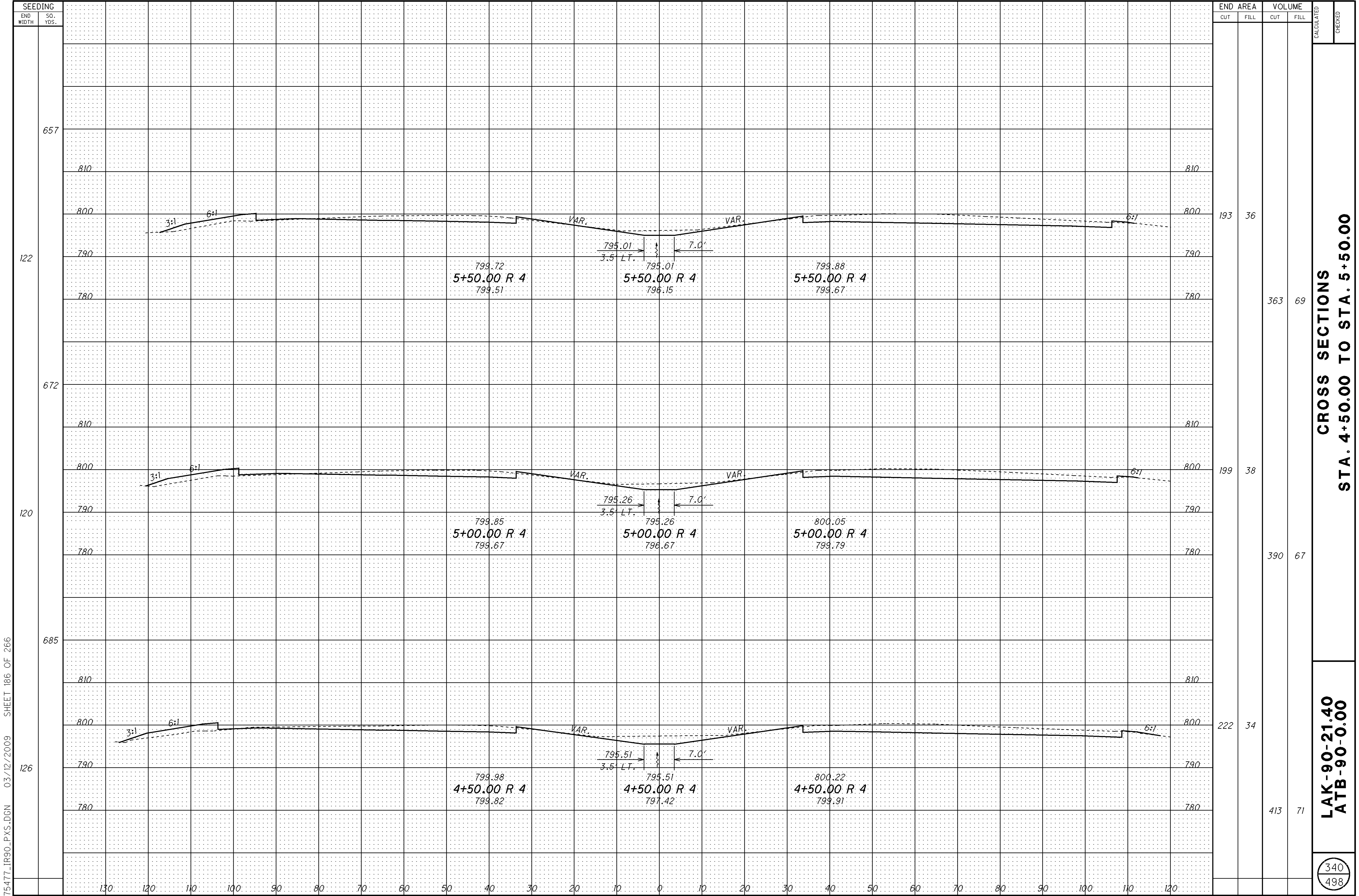


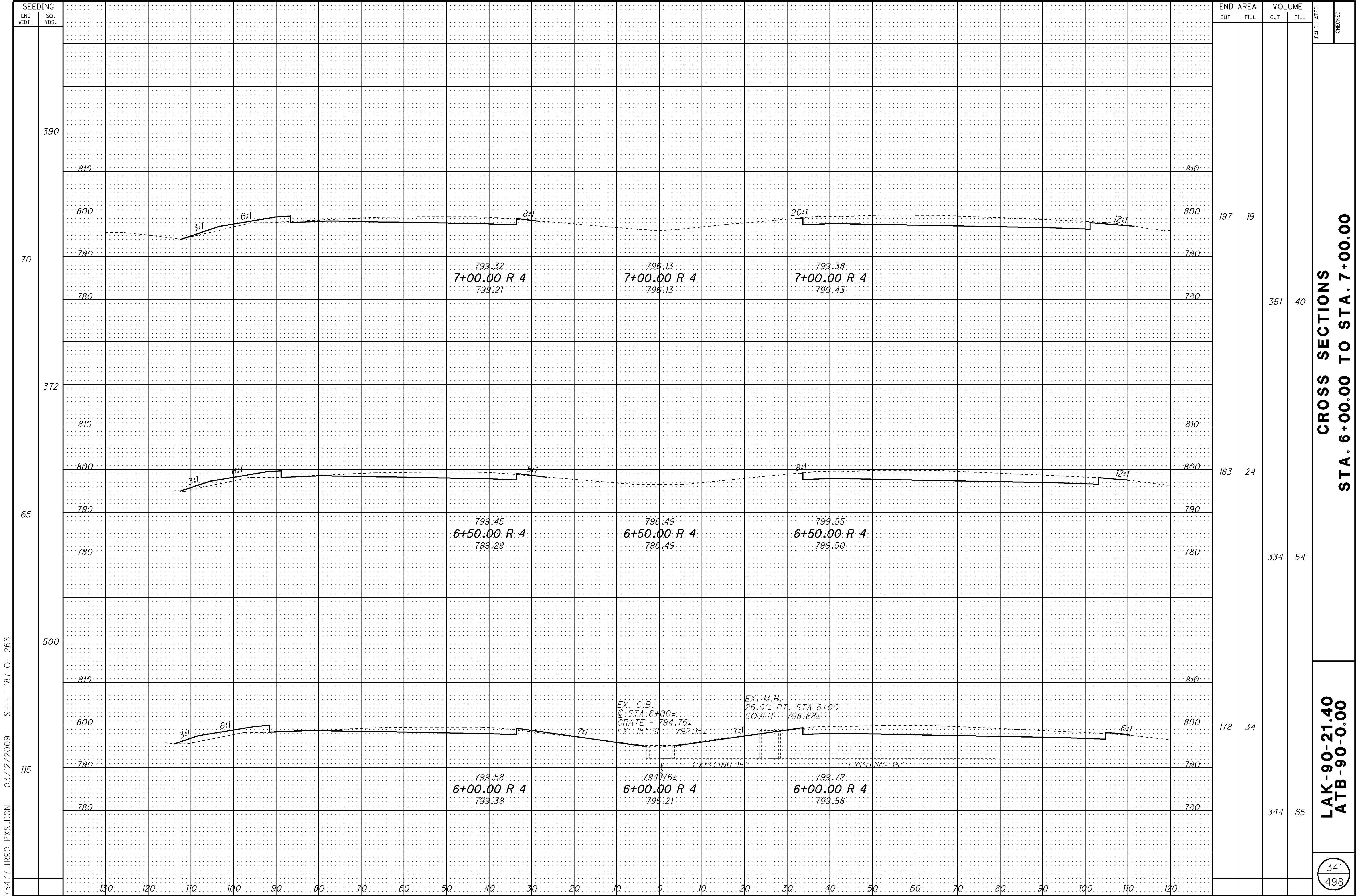


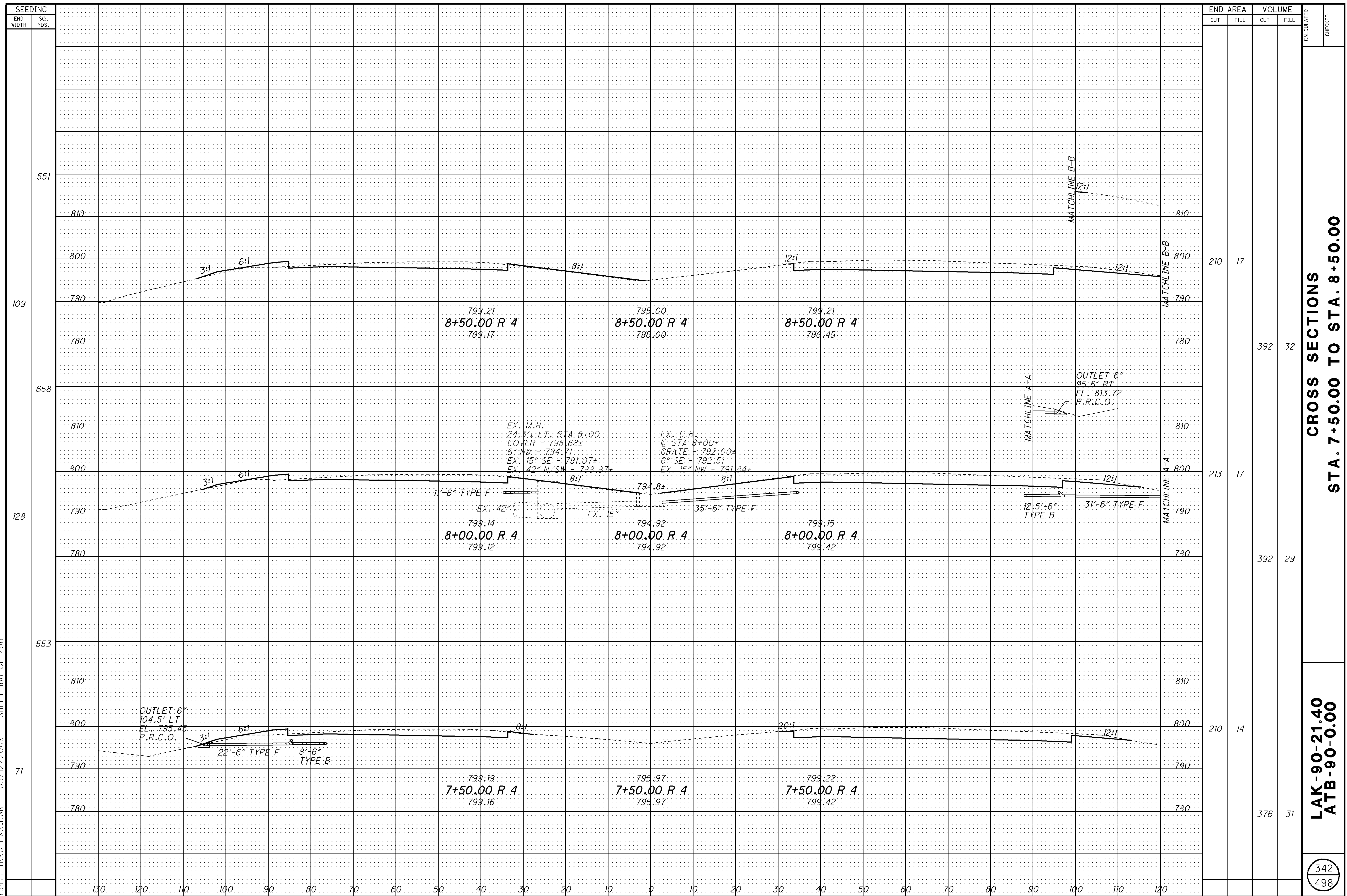
CROSS SECTIONS
STA. 1052+73.22 TO STA. 1+00.00

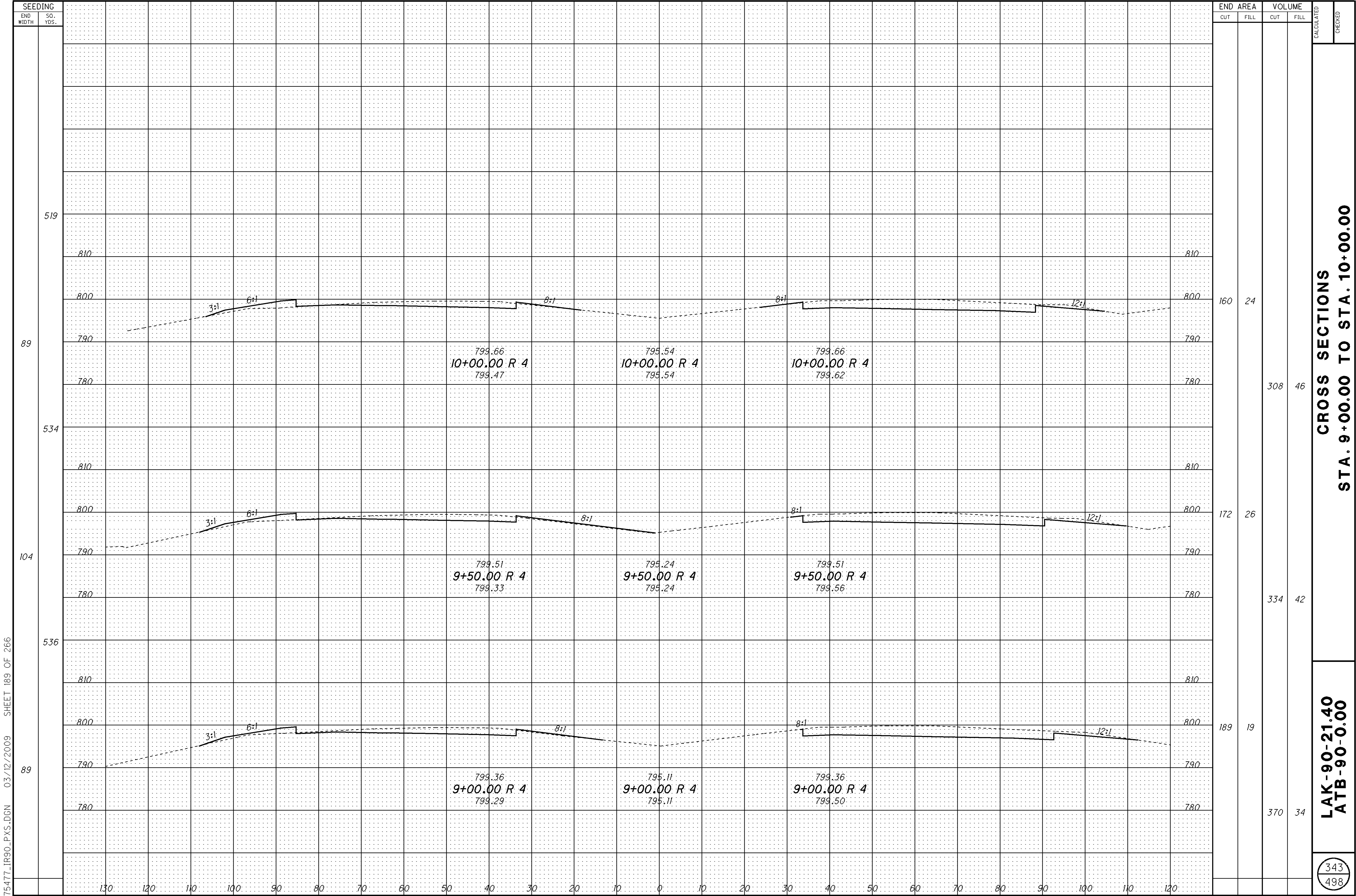




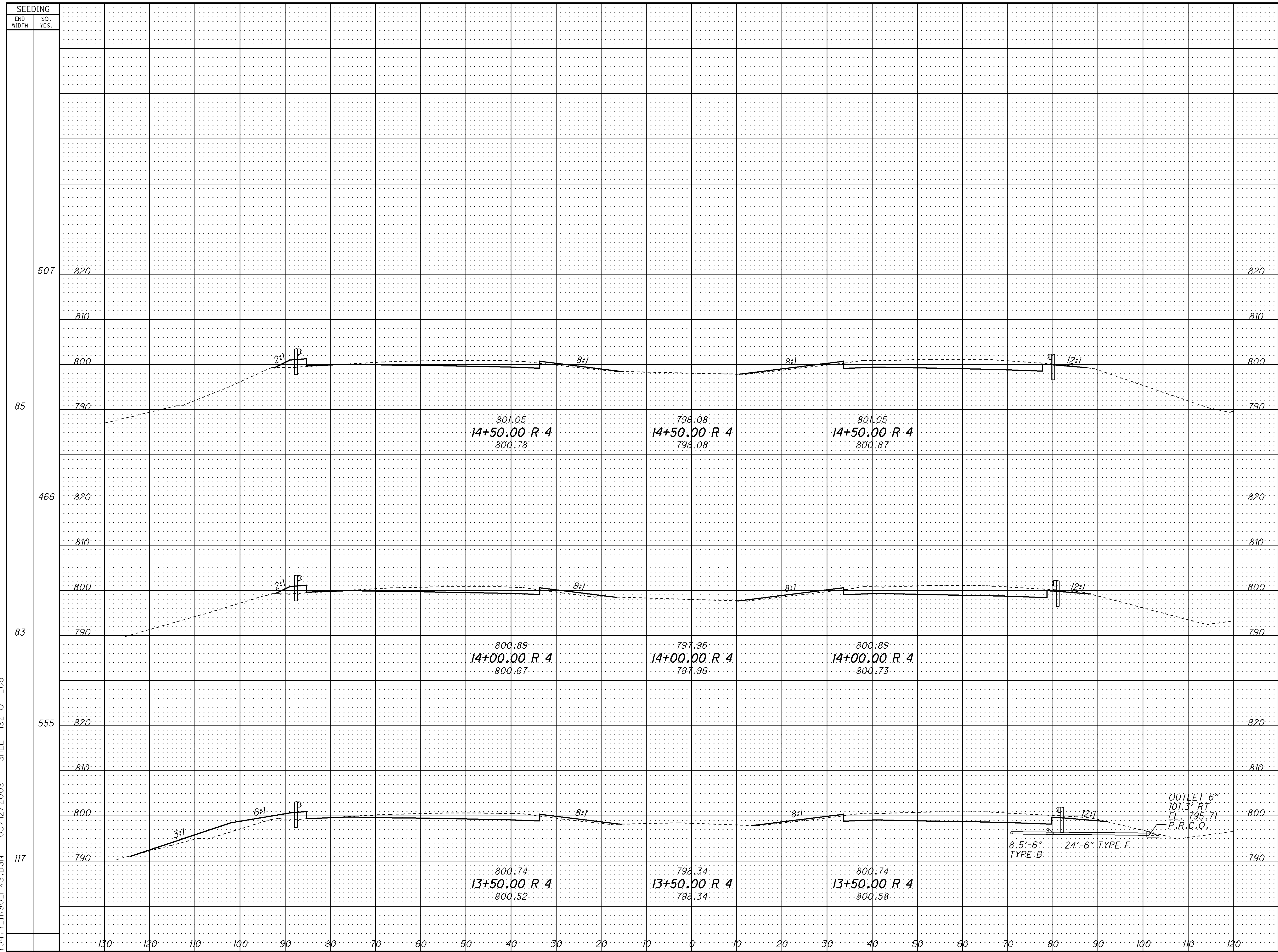






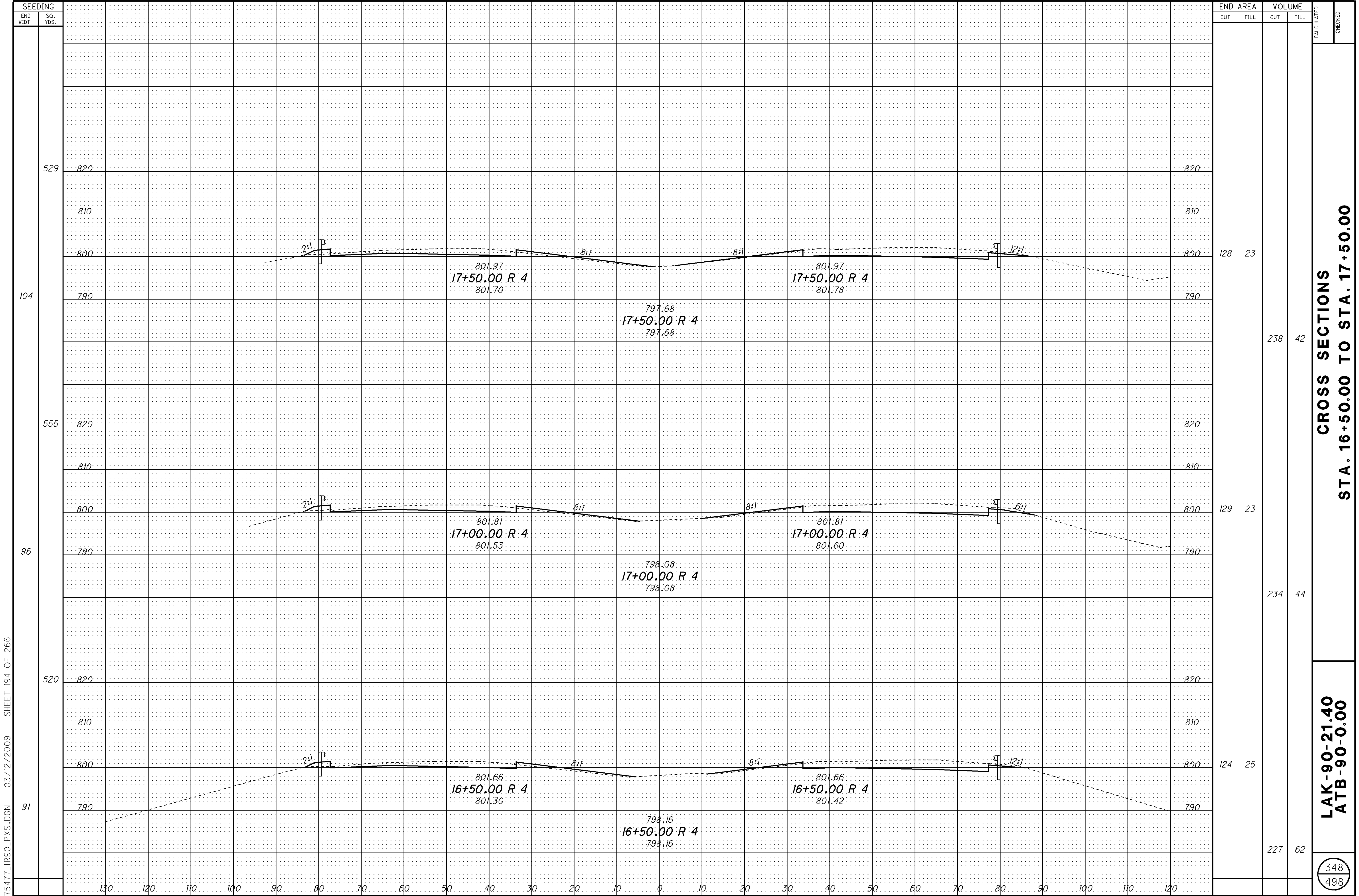


[illegible]

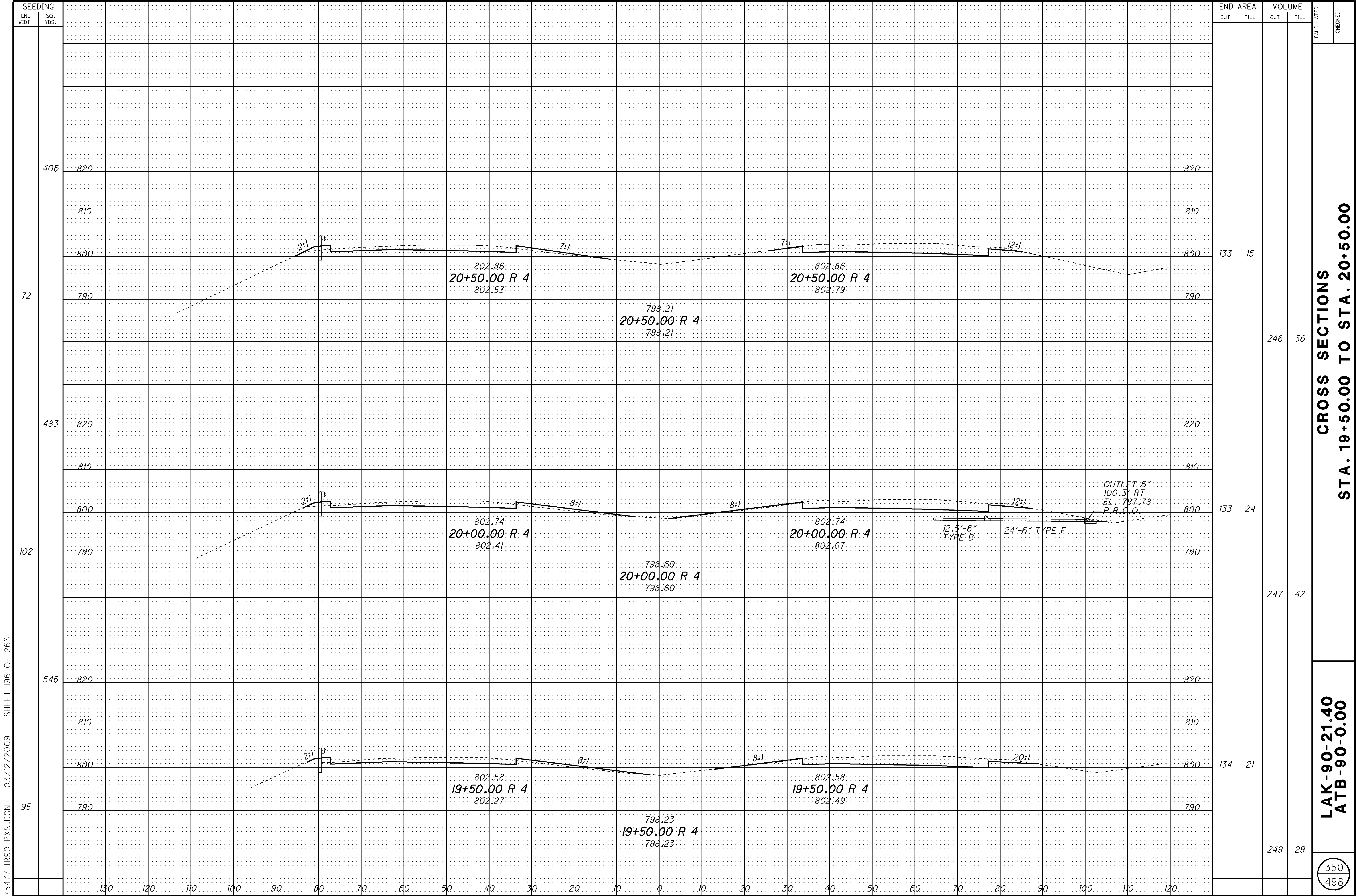


END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
125	24	236	47	CROSS SECTIONS STA. 13+50.00 TO STA. 14+50.00	
130	27	247	80		
137	60	260	87		
				LAK-90-21.40 ATB-90-0.00	
				346 498	

347
498

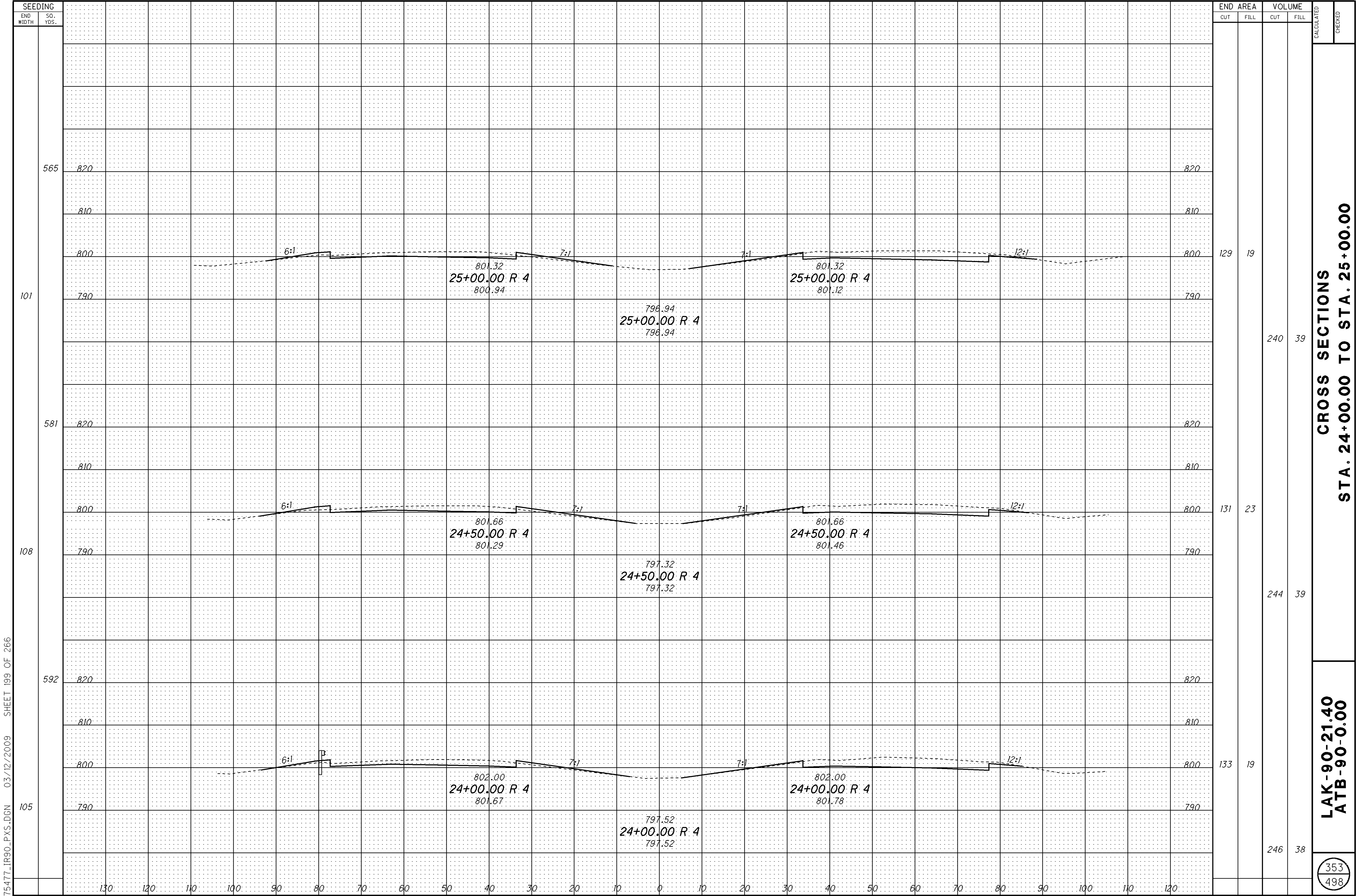


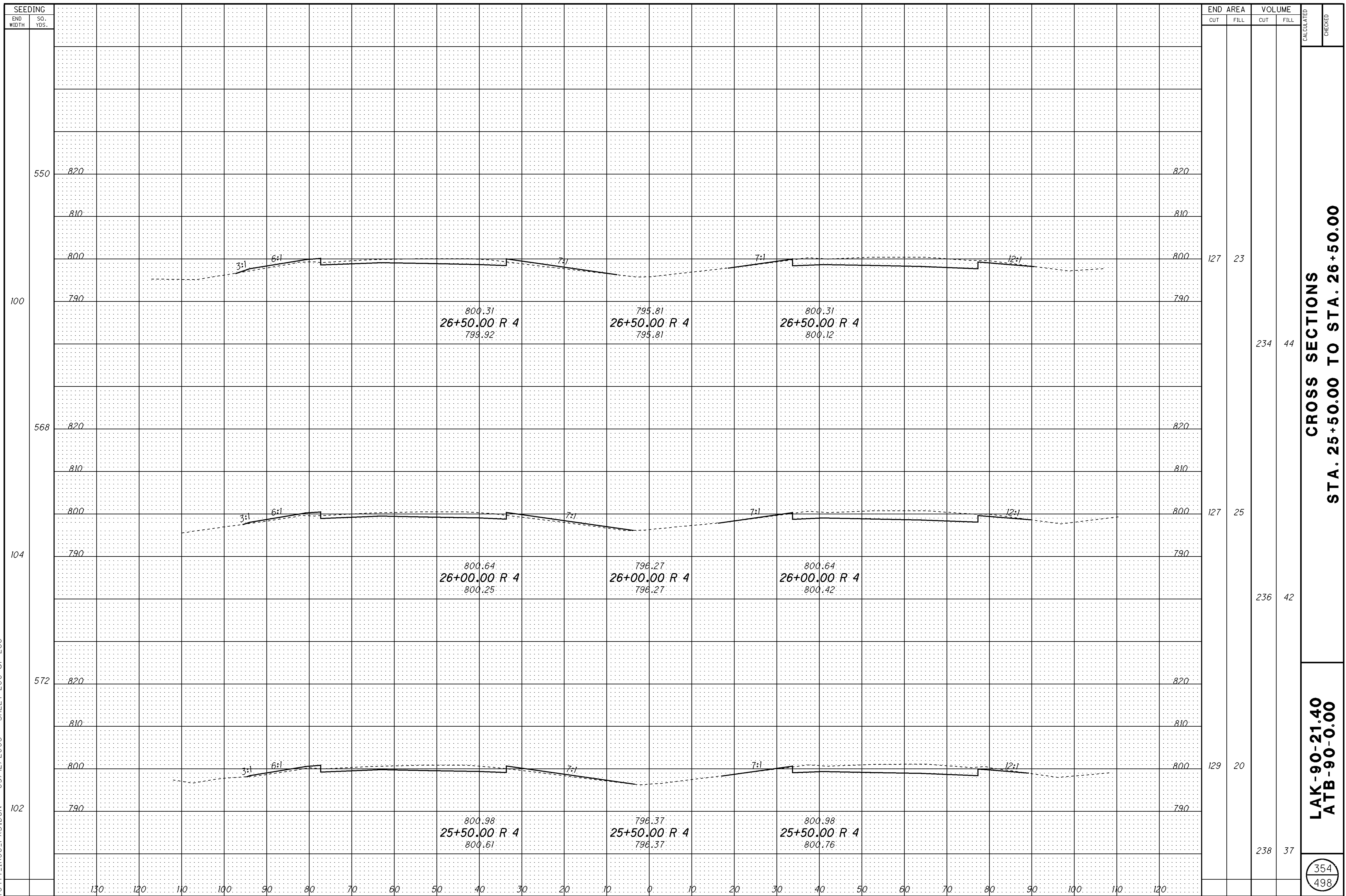
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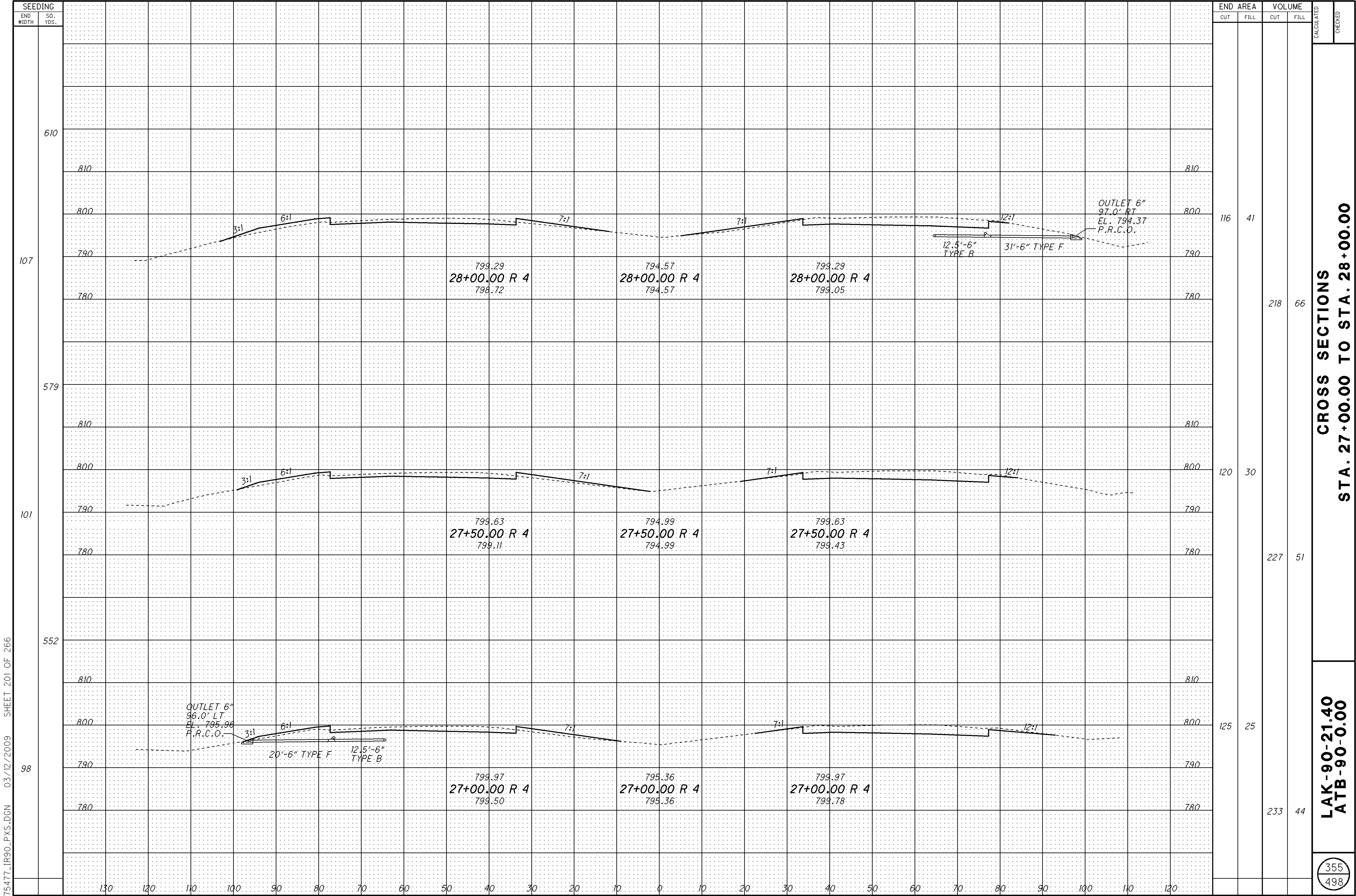


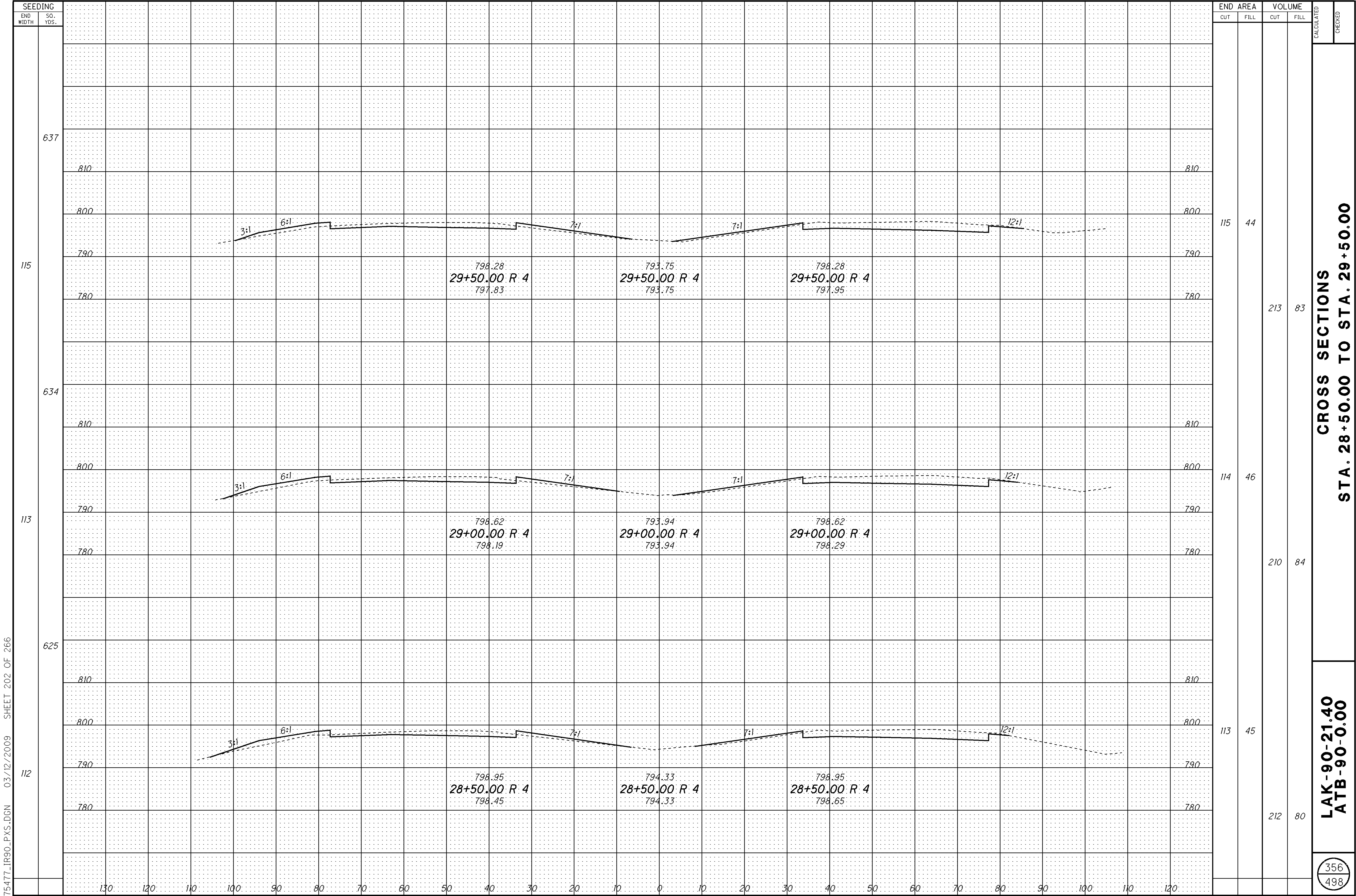
351
498

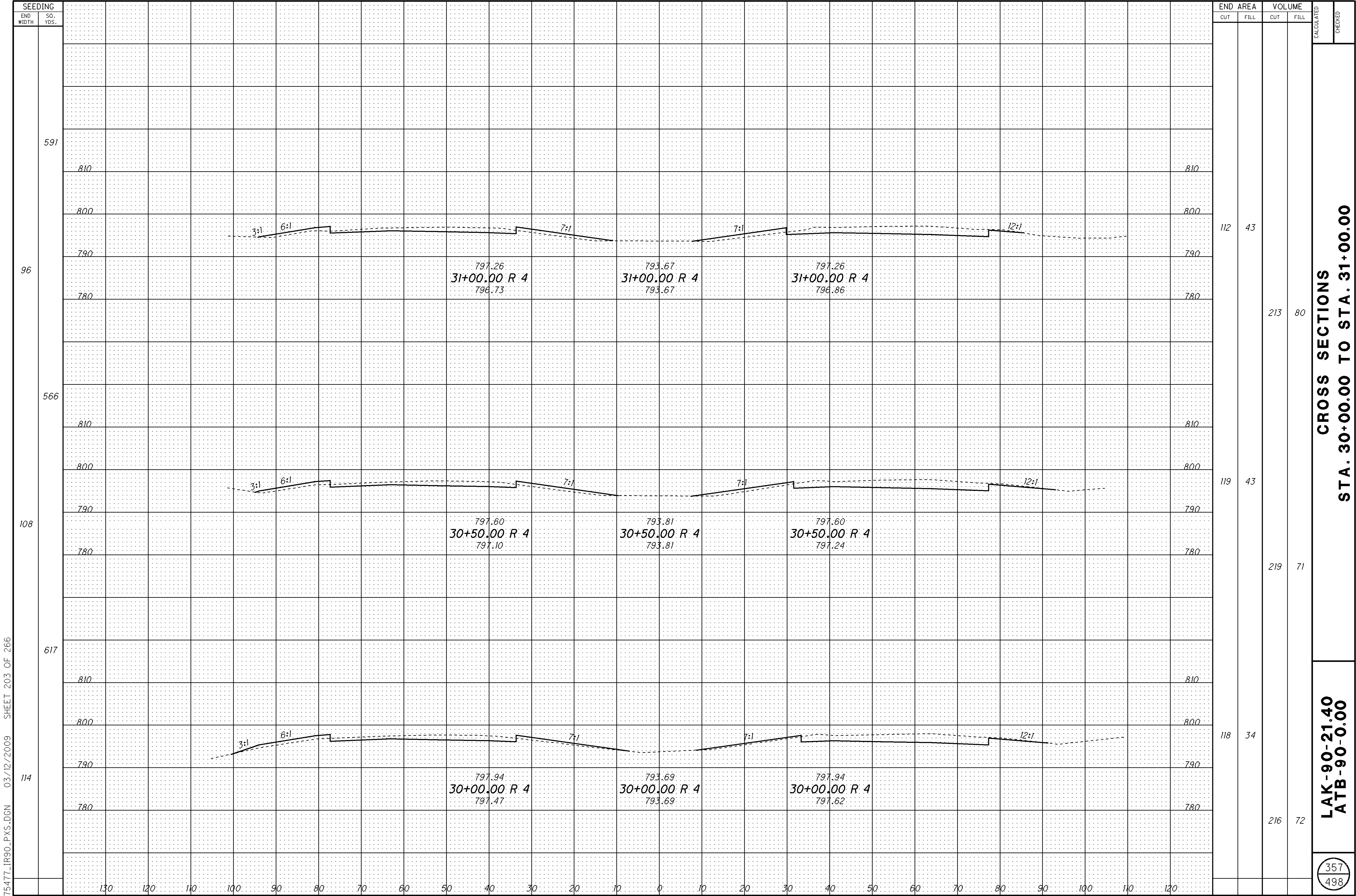
$$\frac{352}{498}$$

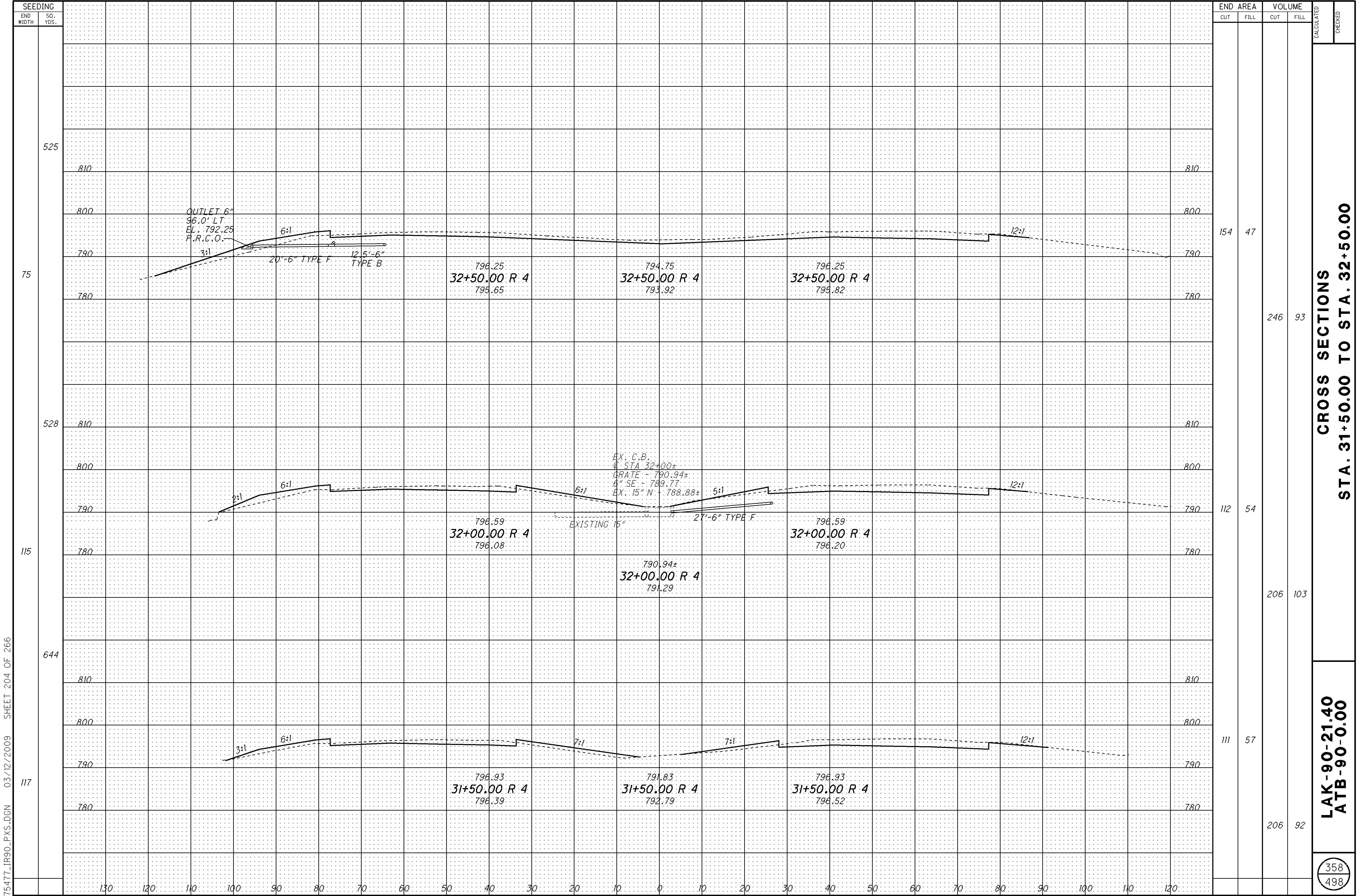


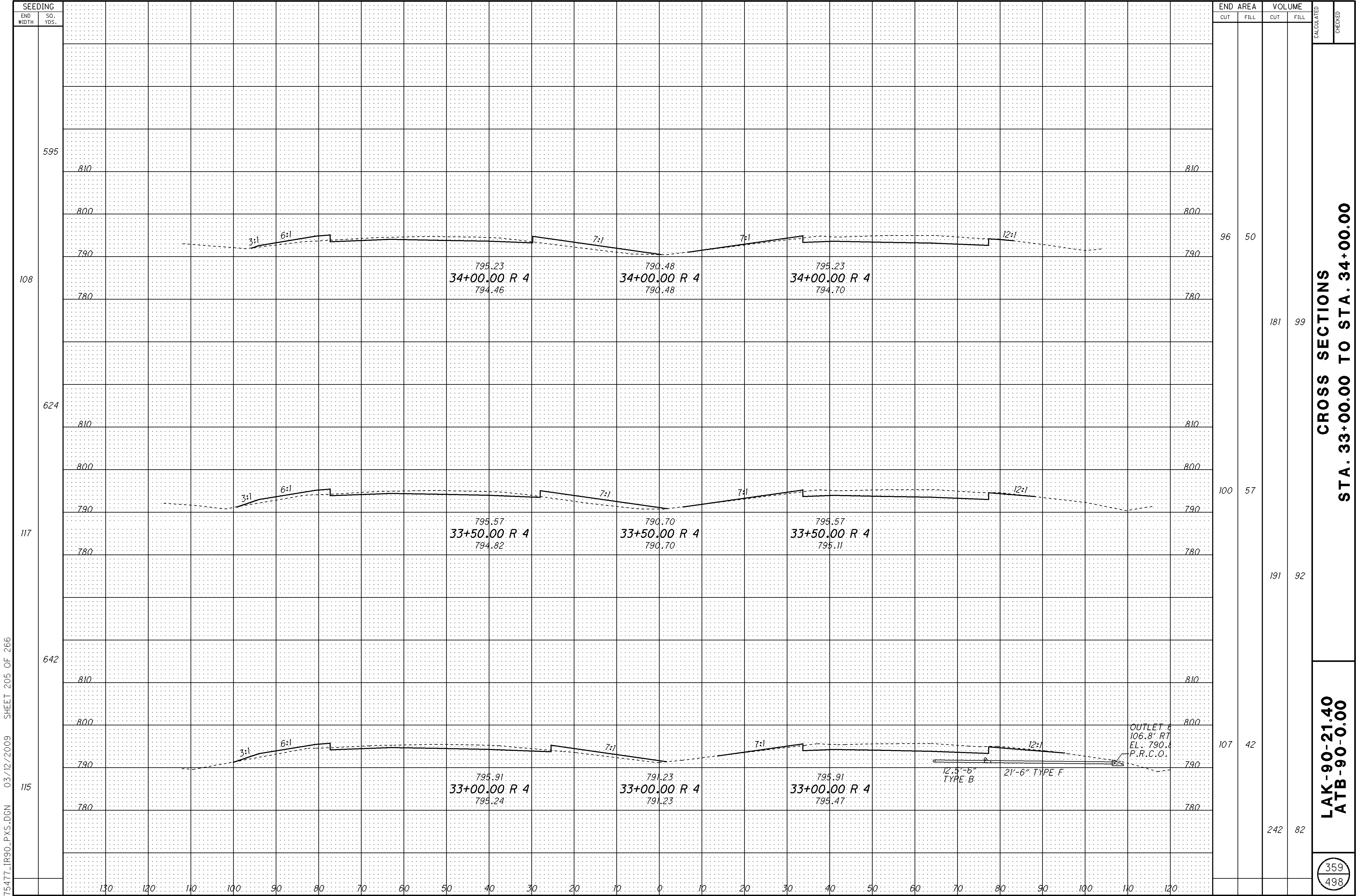


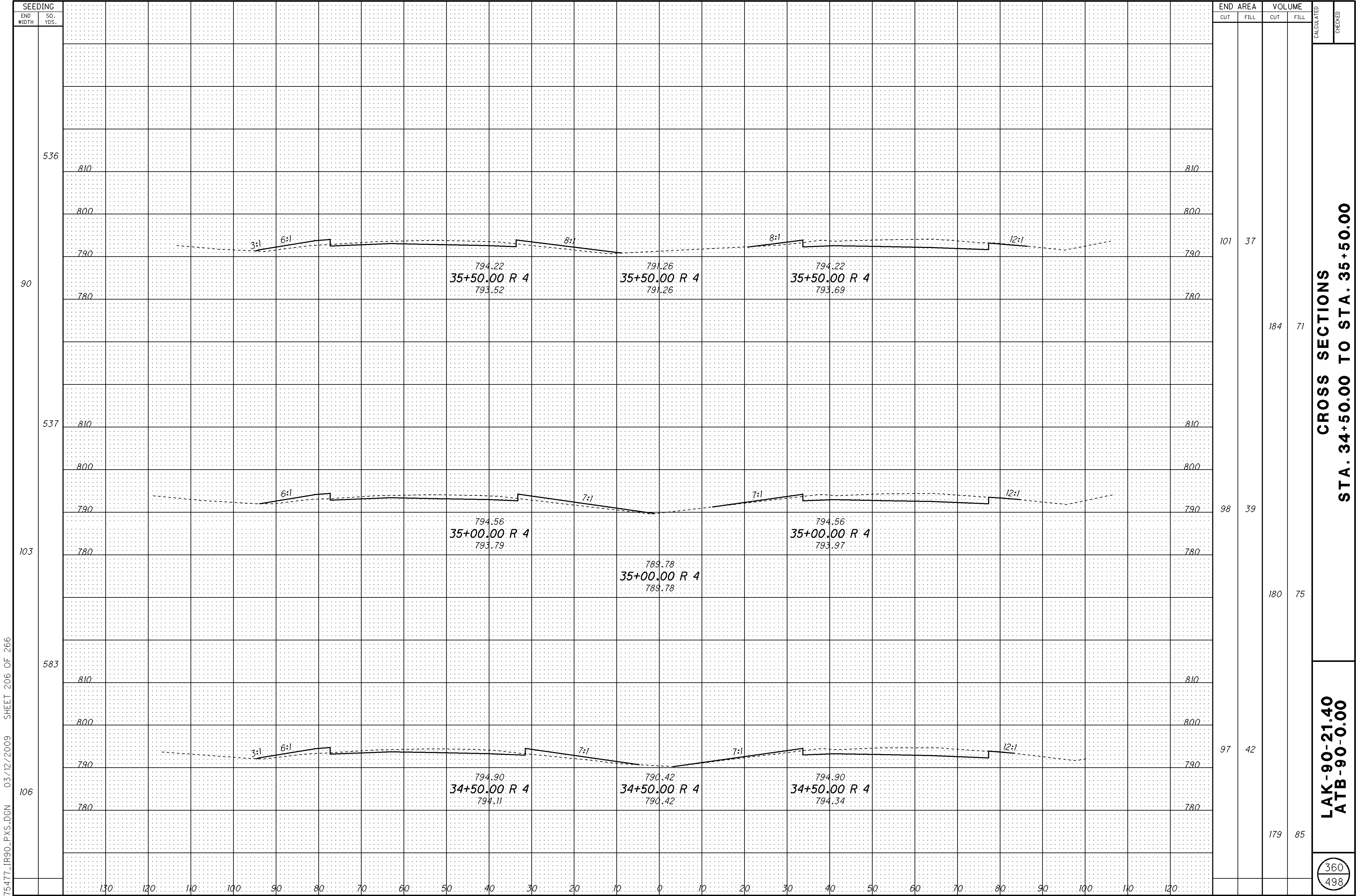








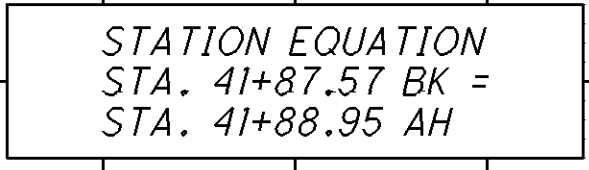




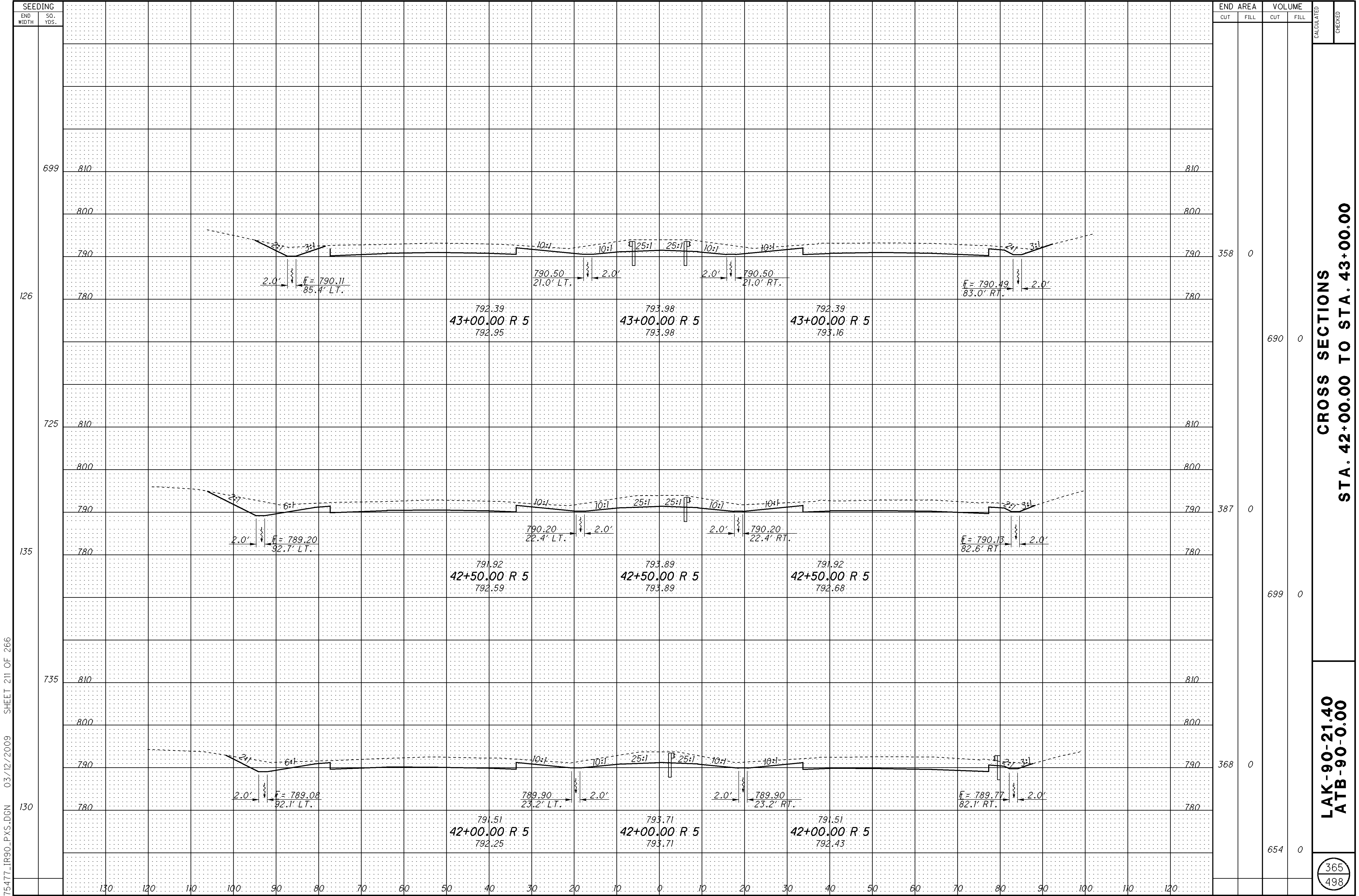
361
498

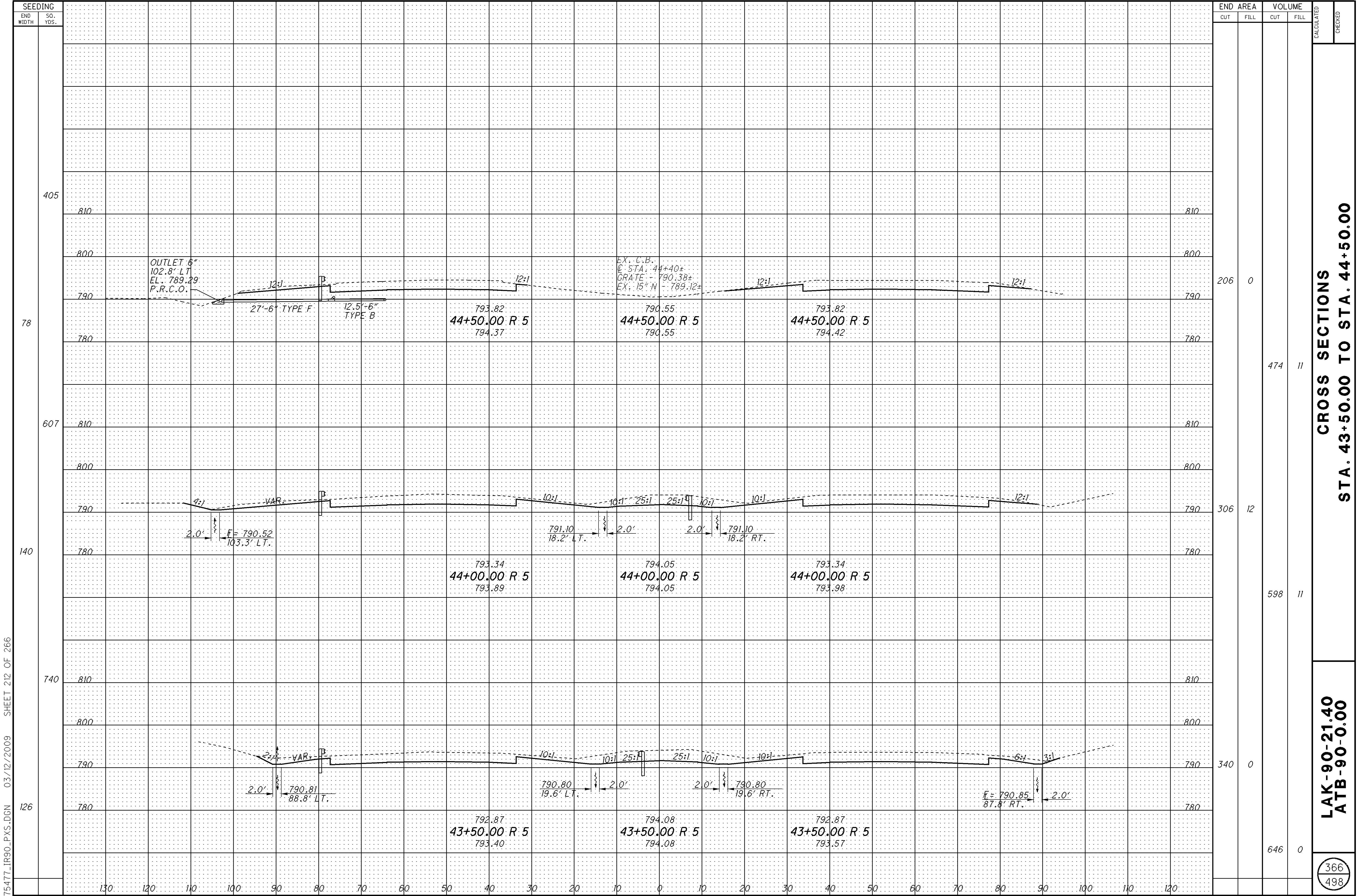
$$\frac{362}{498}$$

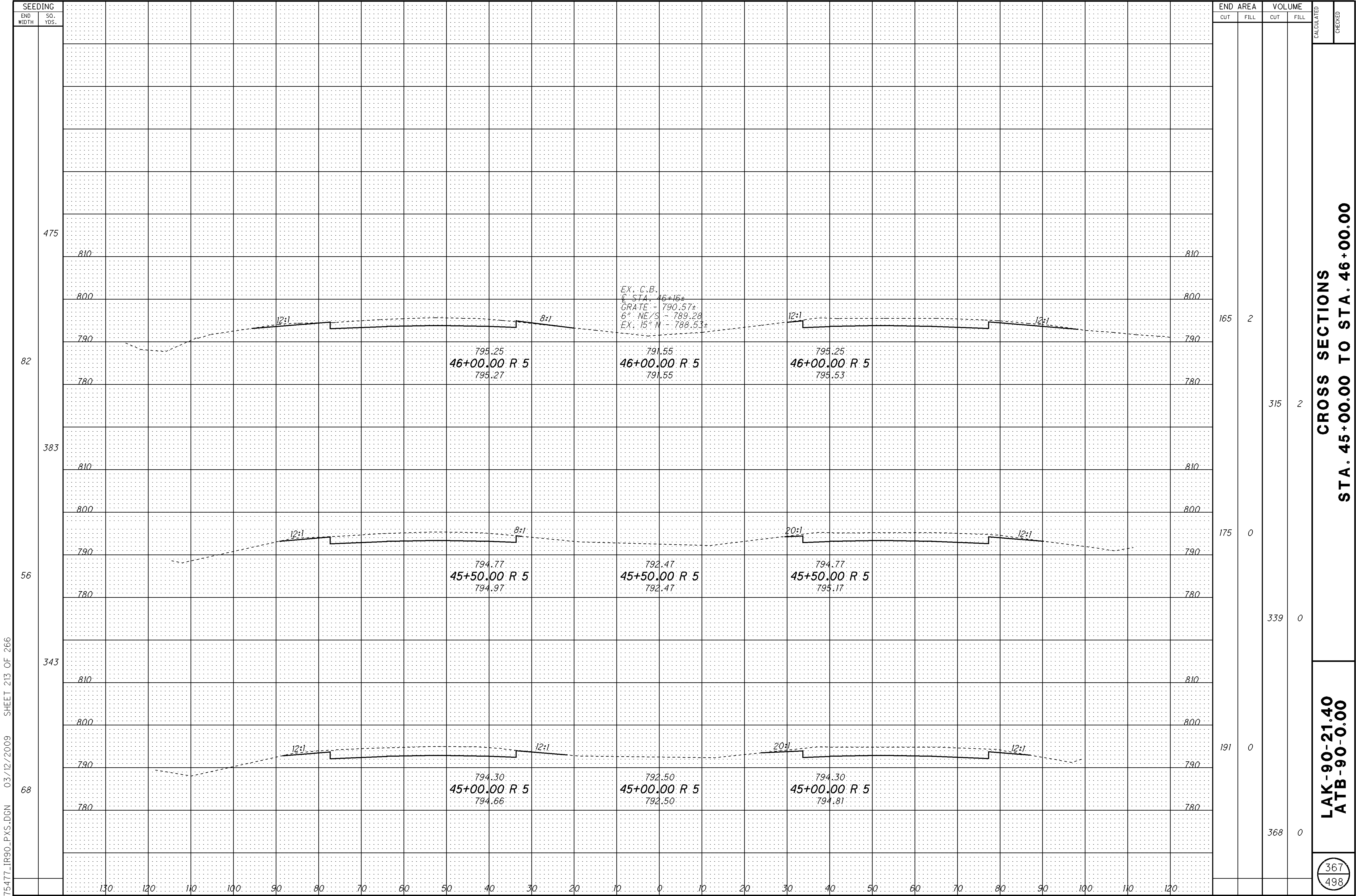
$$\frac{363}{498}$$

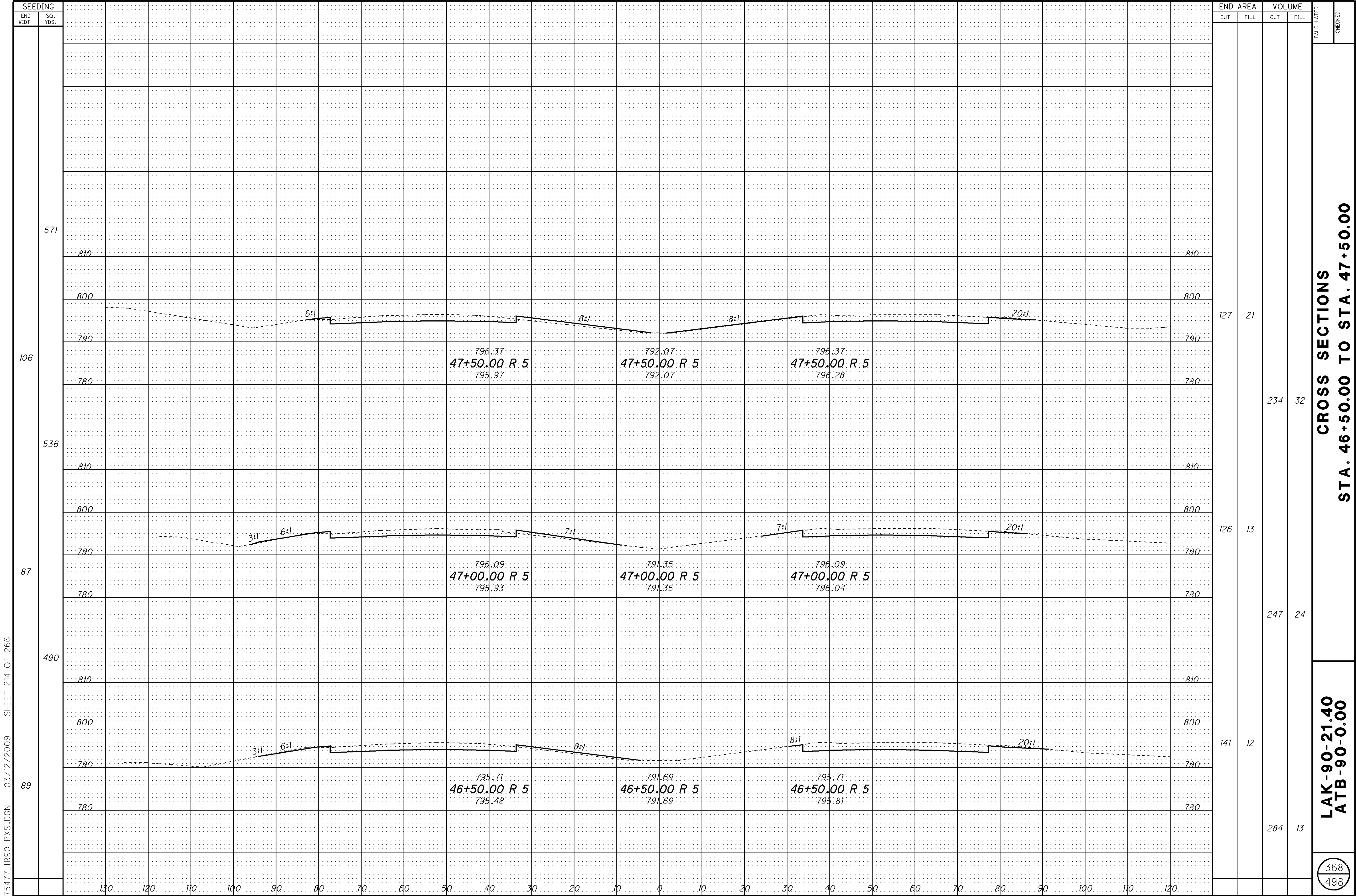


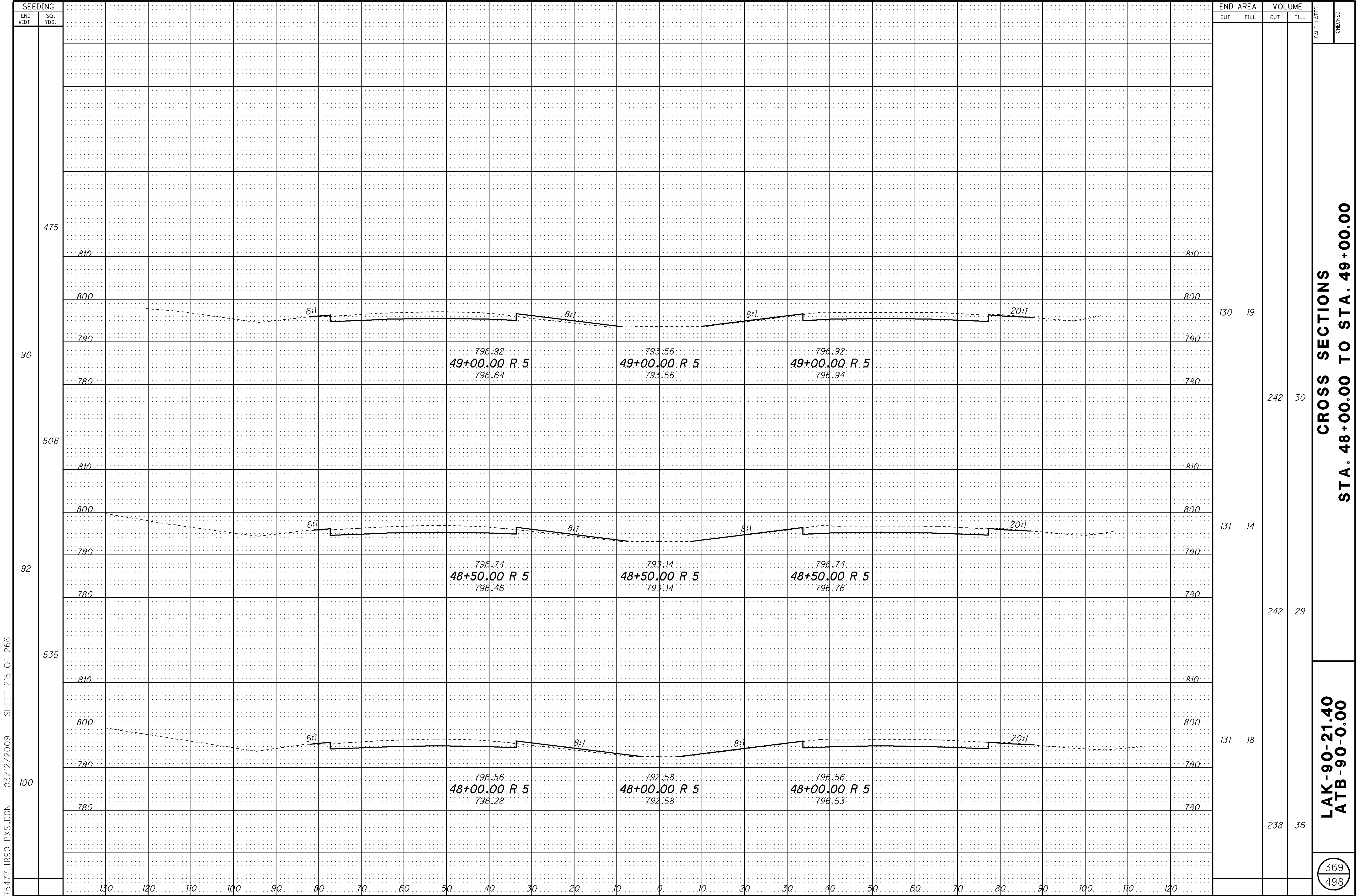
CROSS SECTIONS
STA. 40+50.00 TO STA. 41+50.00

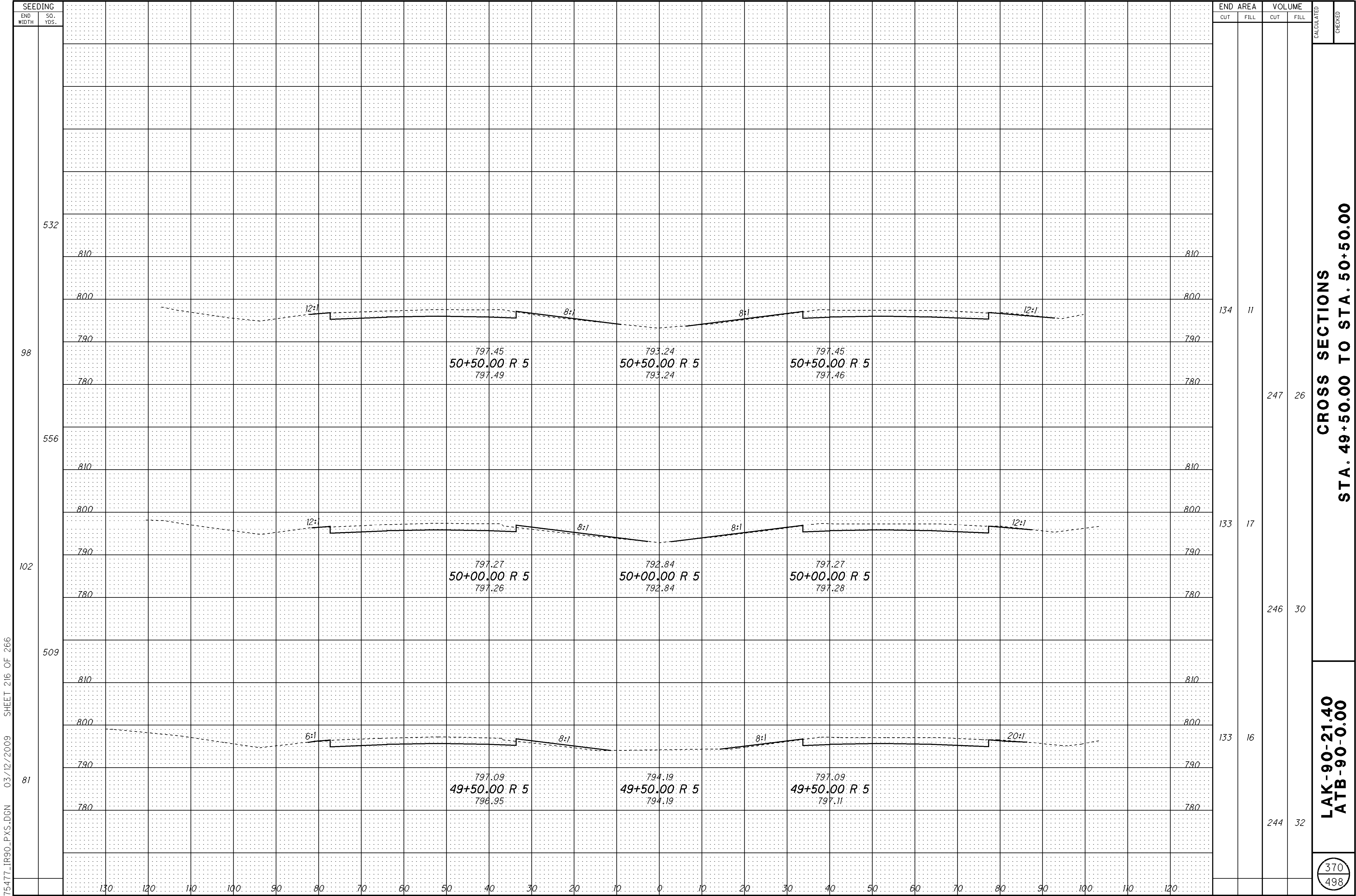


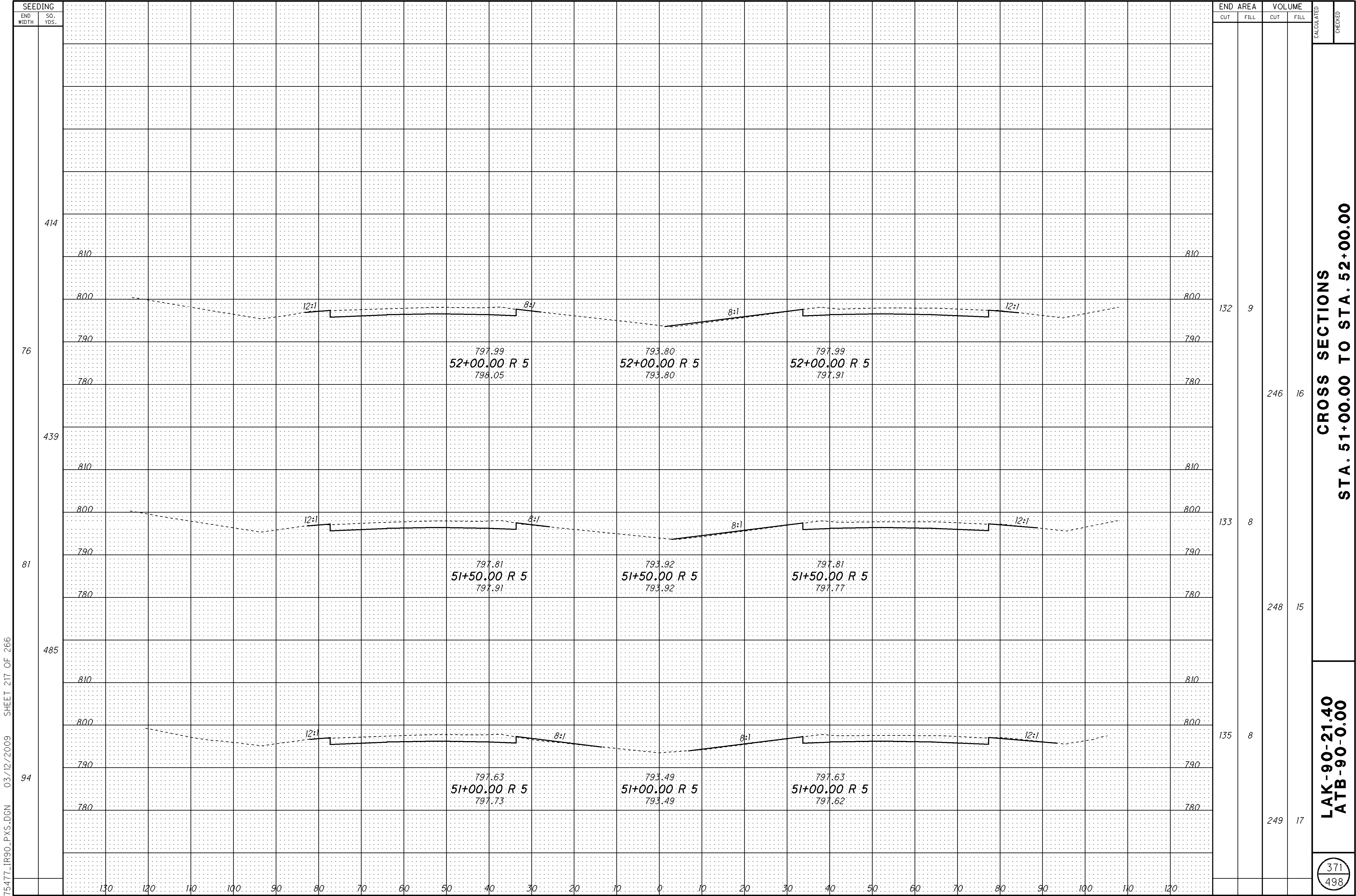


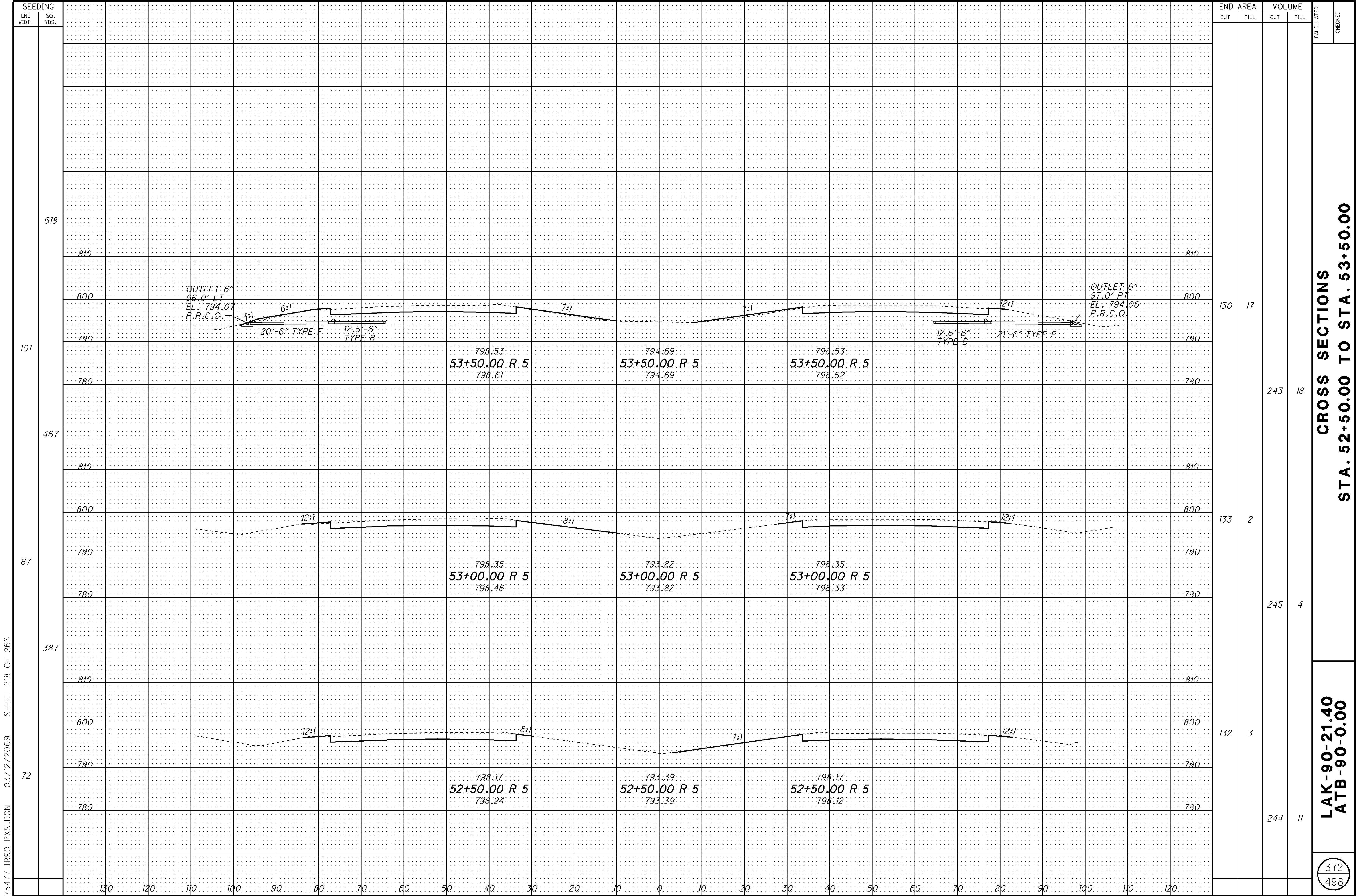


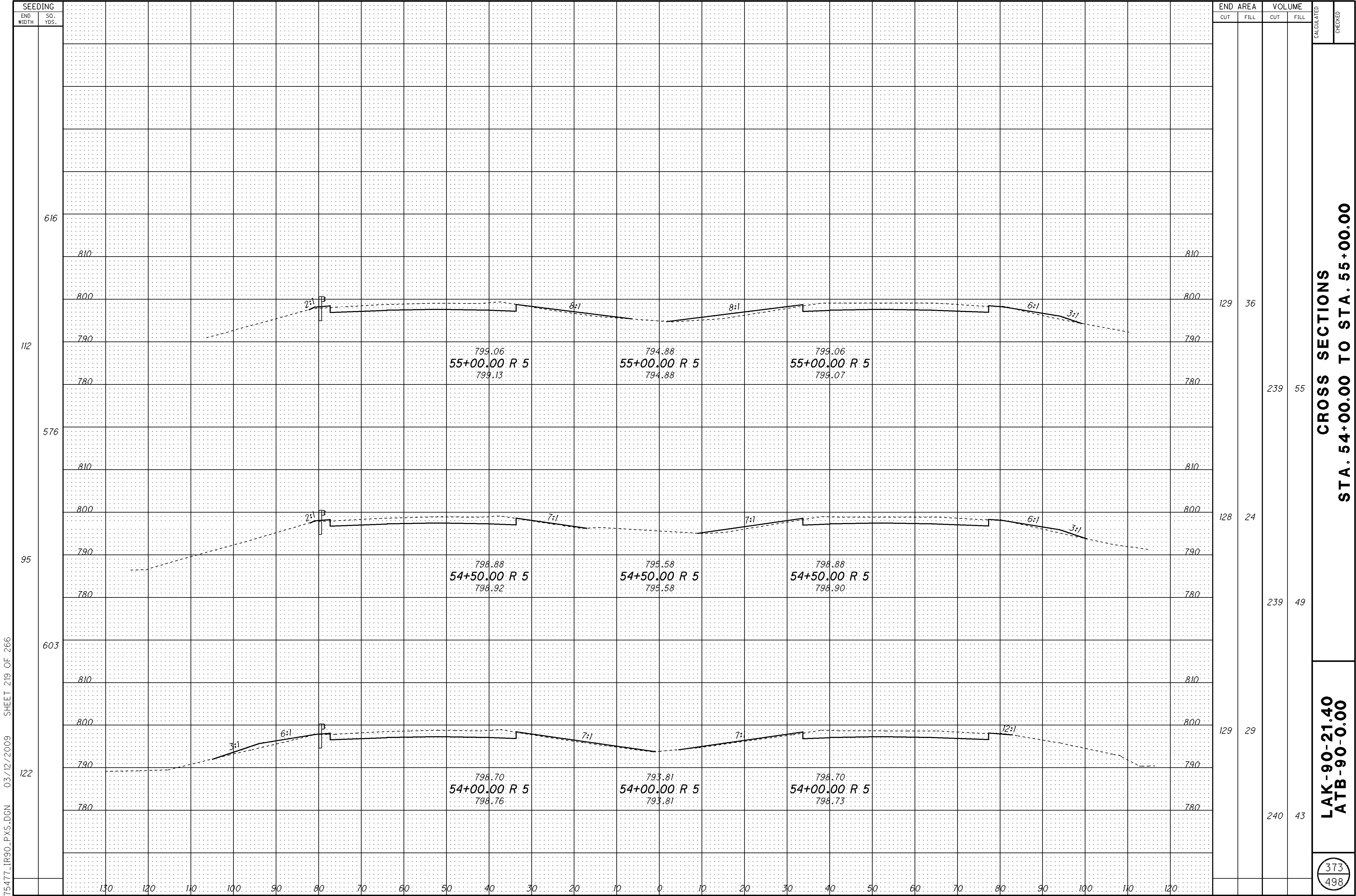


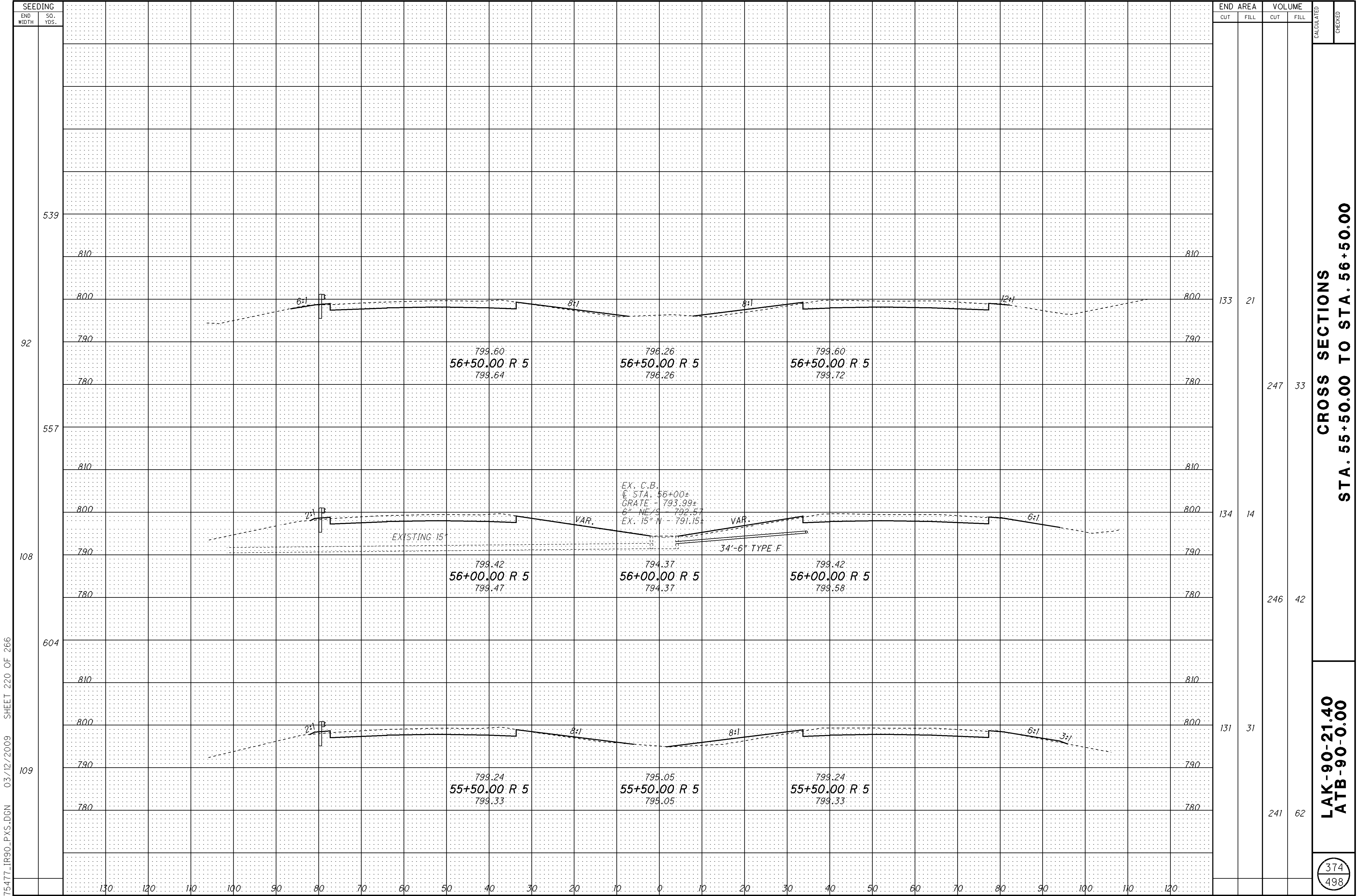












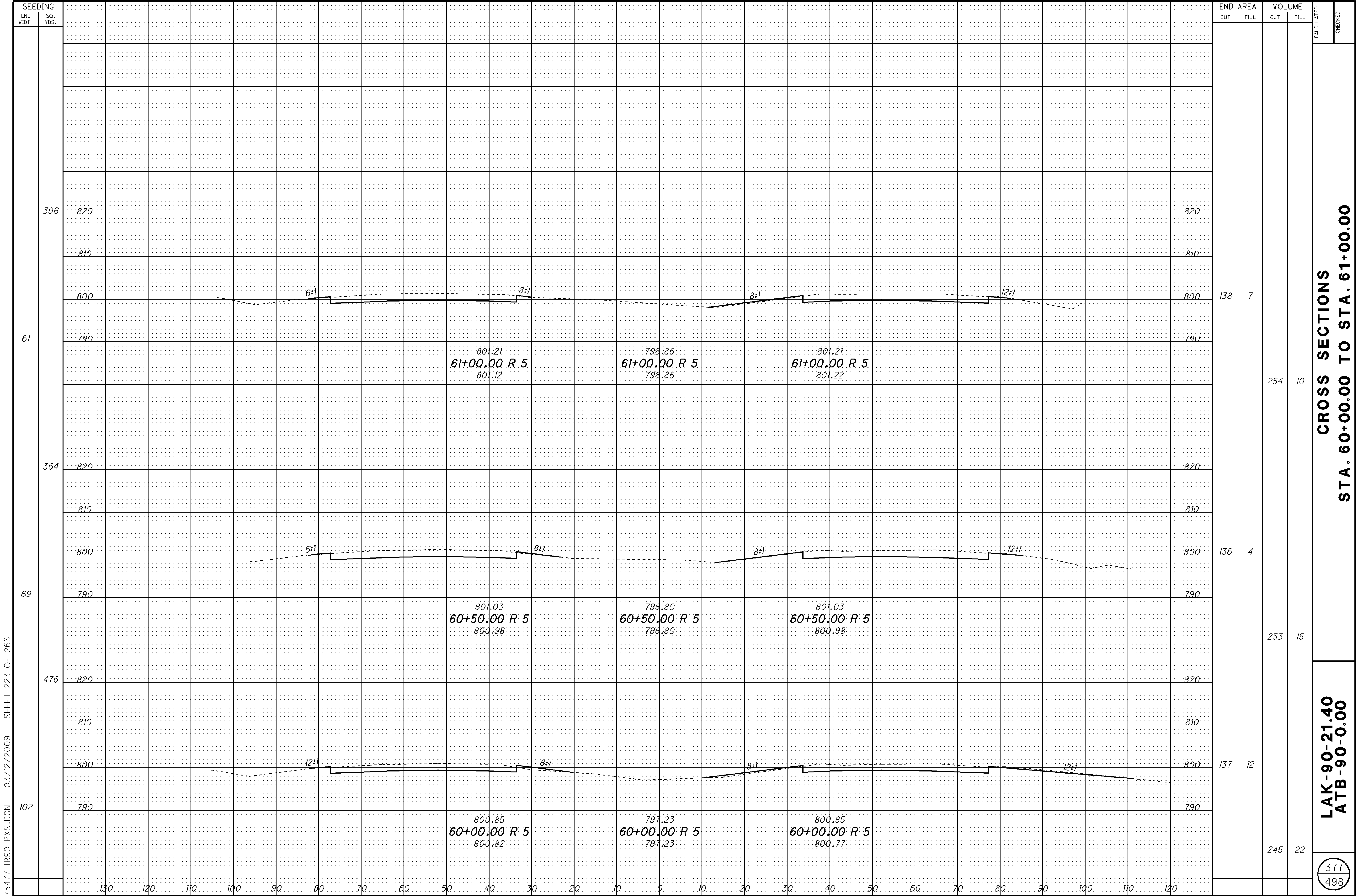
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SEEDING																														END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.																													CUT	FILL	CUT	FILL		
574	96																													131	4	246	8	CROSS SECTIONS STA. 57+00.00 TO STA. 58+00.00	LAK-90-21.40 ATB-90-0.00
532	93																													135	4	250	16	CROSS SECTIONS STA. 57+00.00 TO STA. 58+00.00	LAK-90-21.40 ATB-90-0.00
		525	102																																
																																375 498			

CROSS SECTIONS
STA. 58+50.00 TO STA. 59+50.00

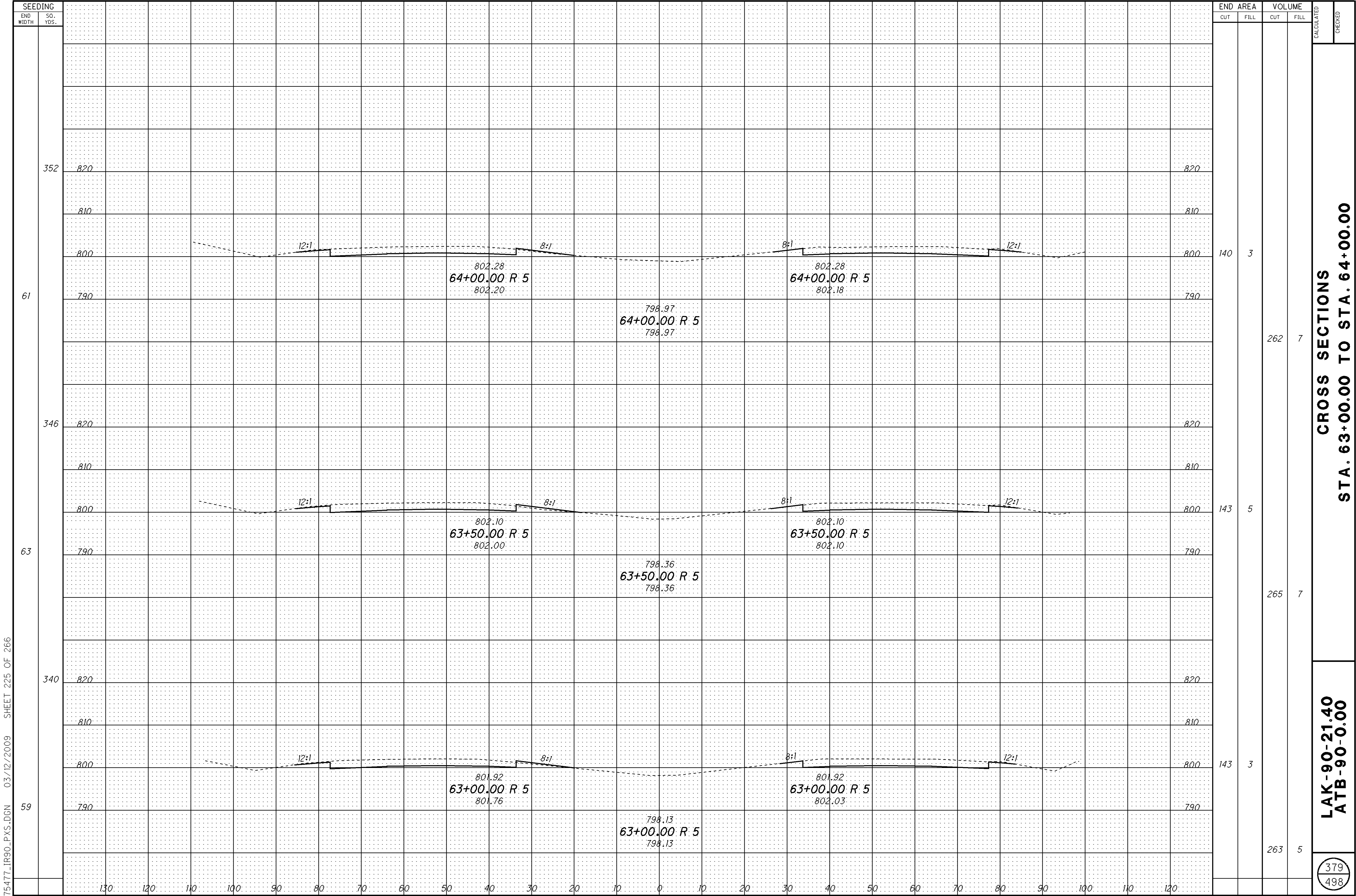
LAK-90-21.40
ATB-90-0.00

$$\frac{376}{498}$$



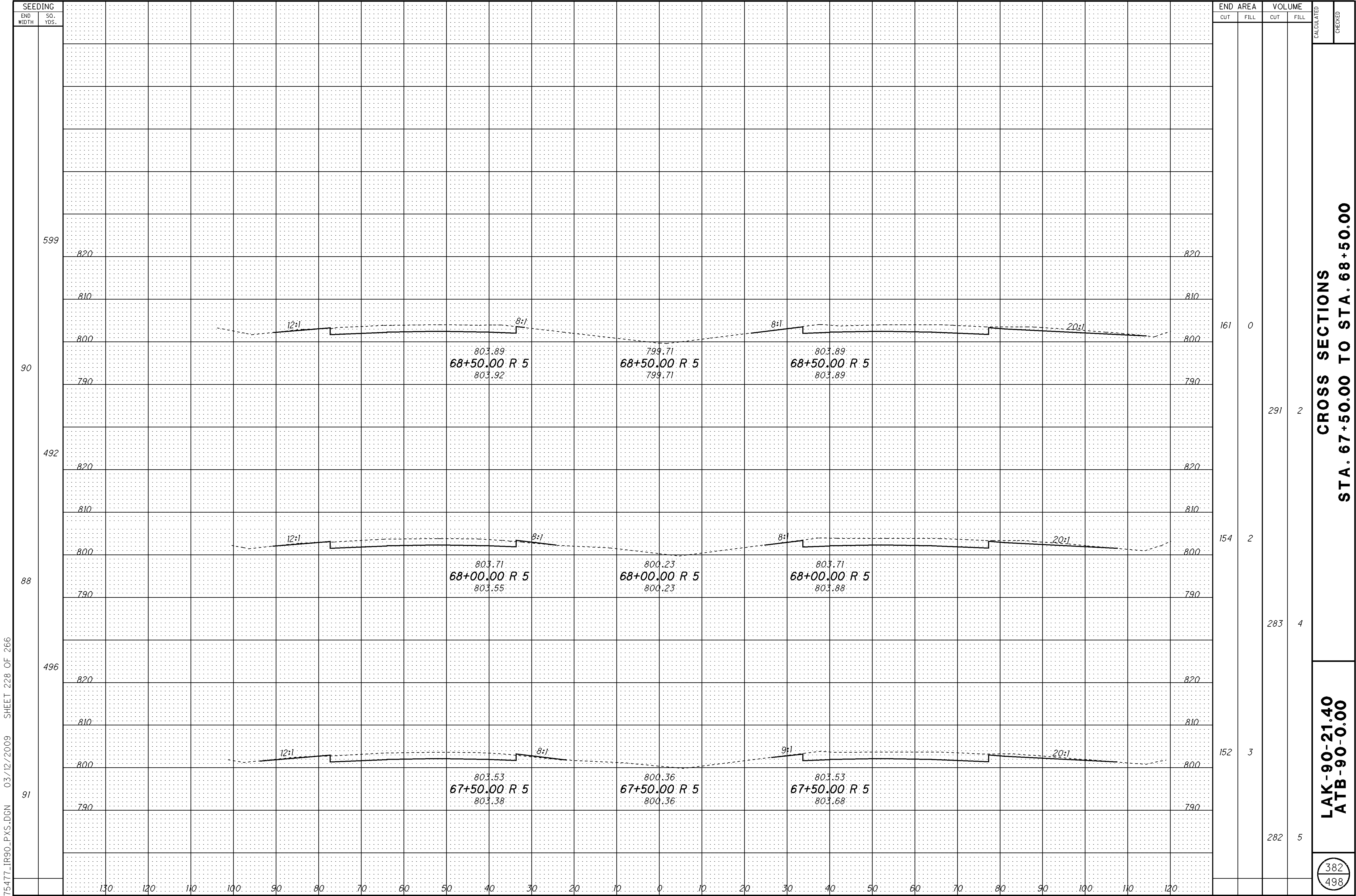
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$$\frac{378}{498}$$

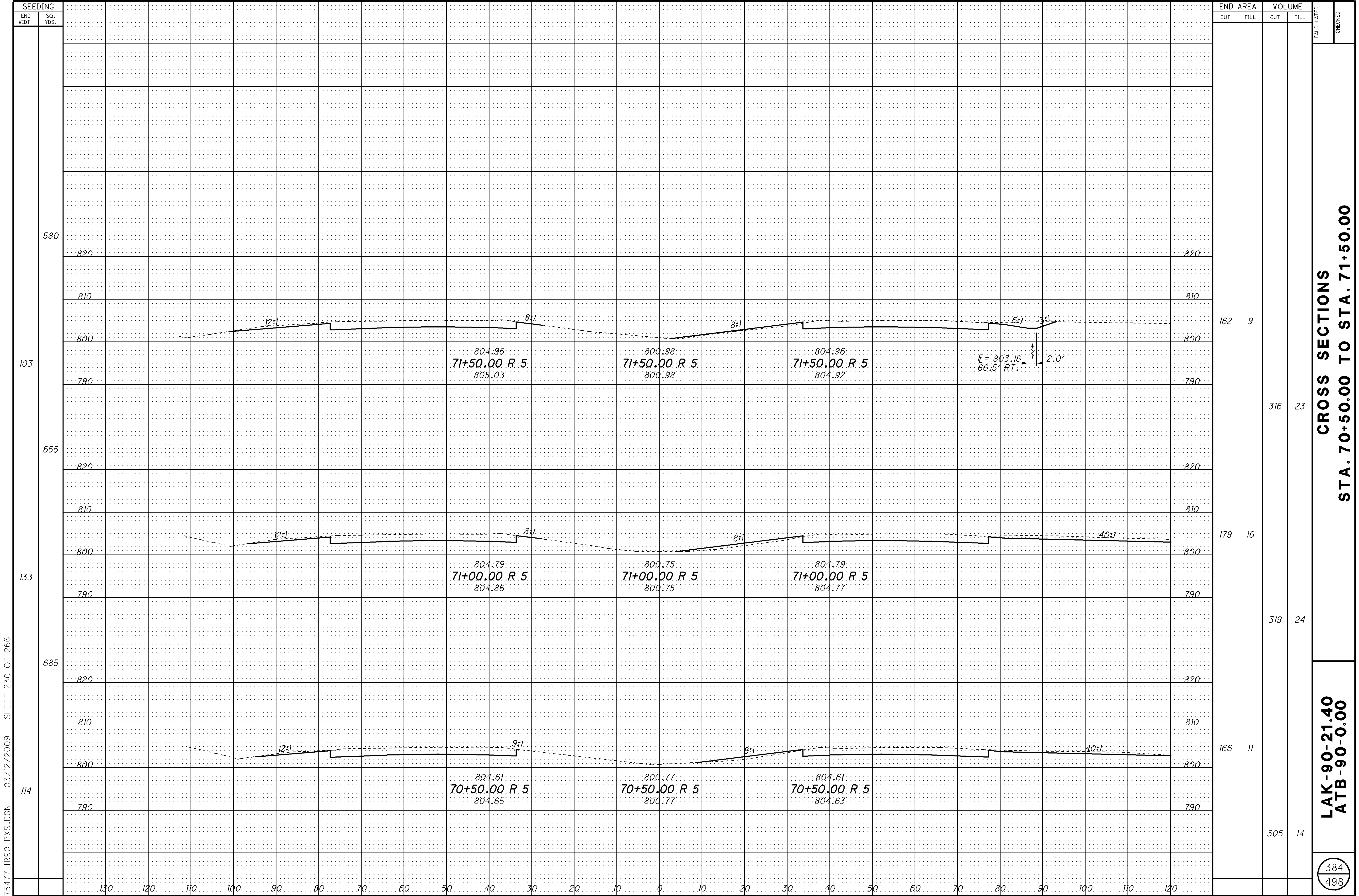


380
498

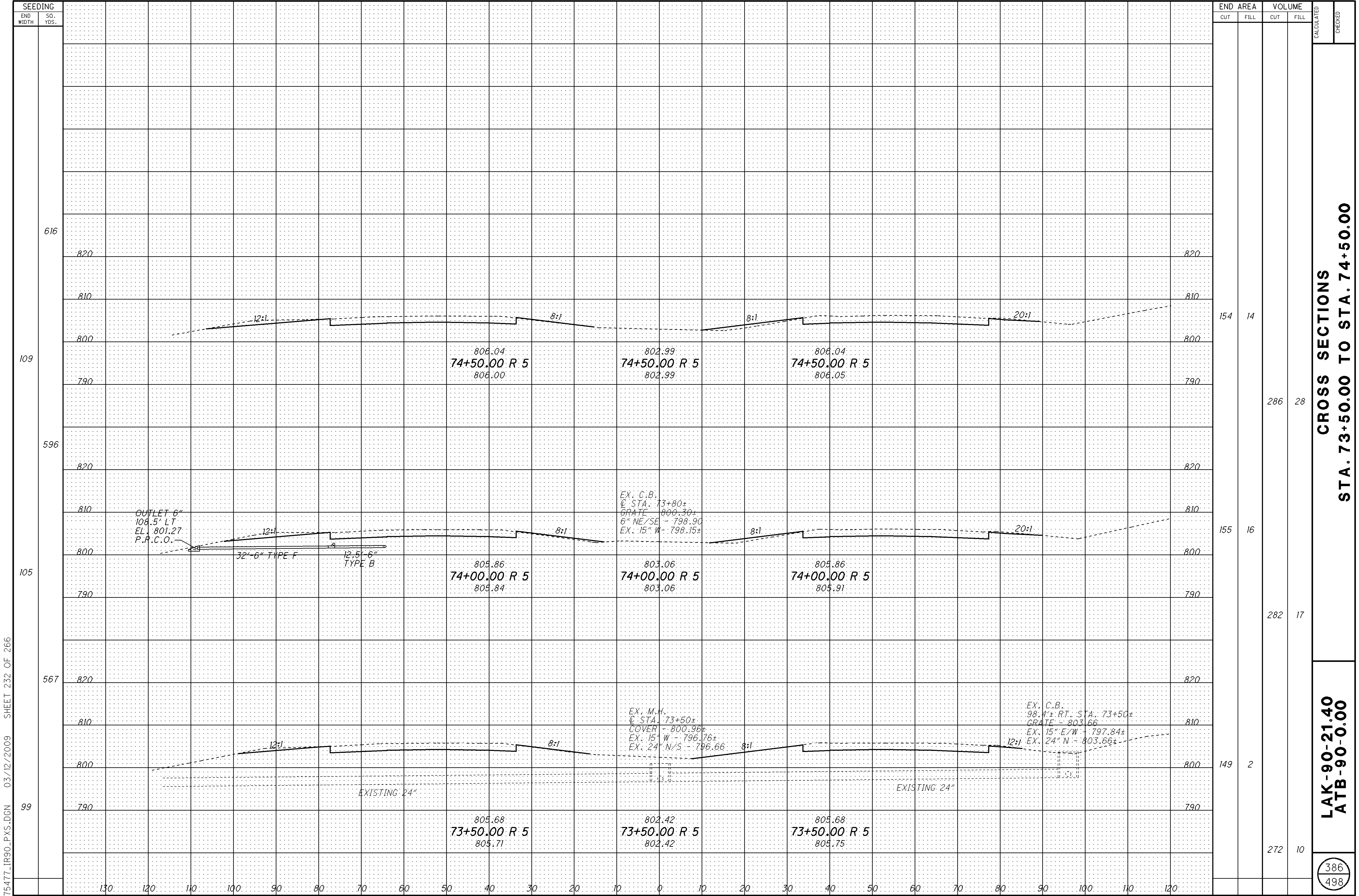
381
498

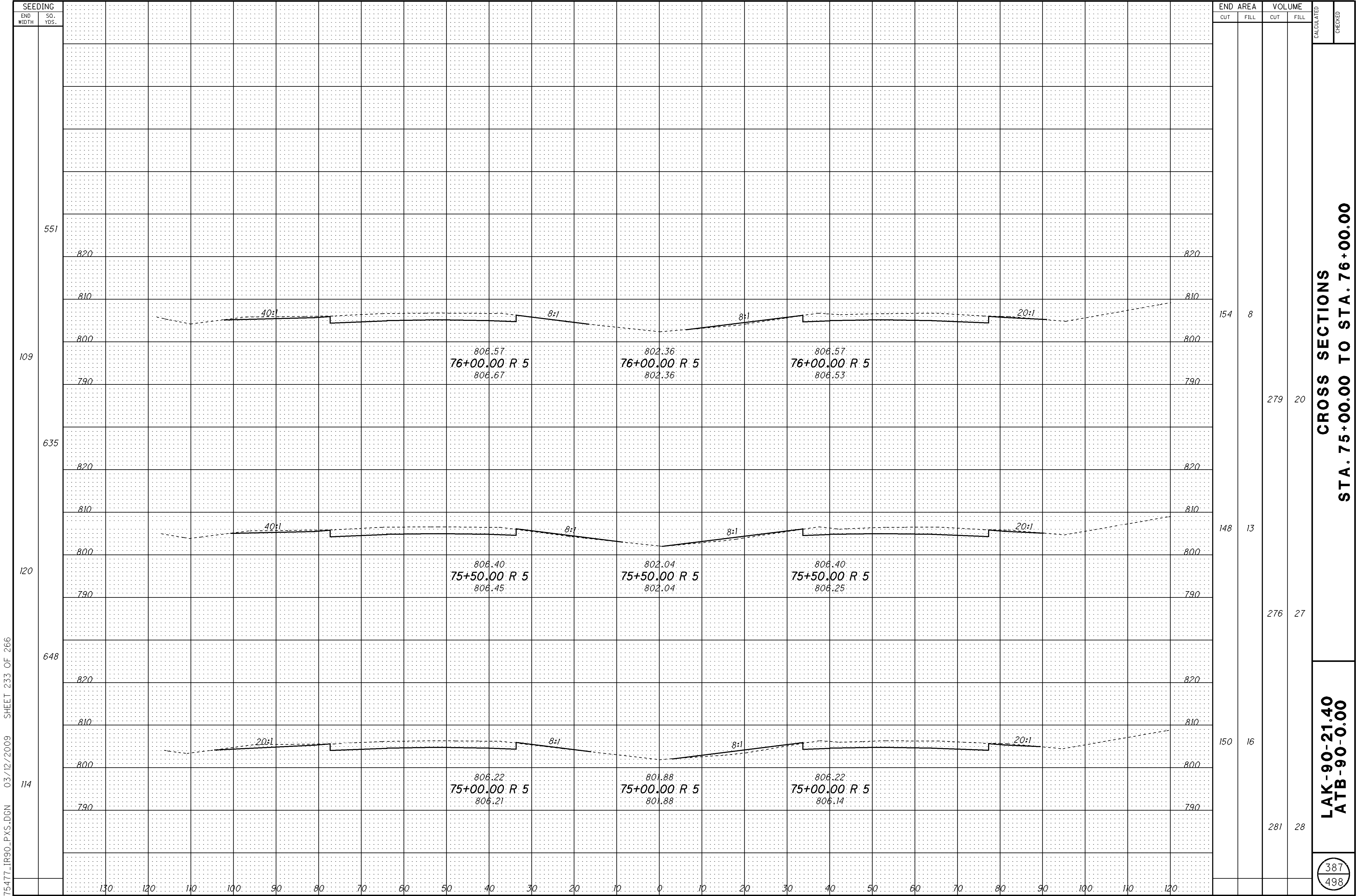


$$\frac{383}{498}$$

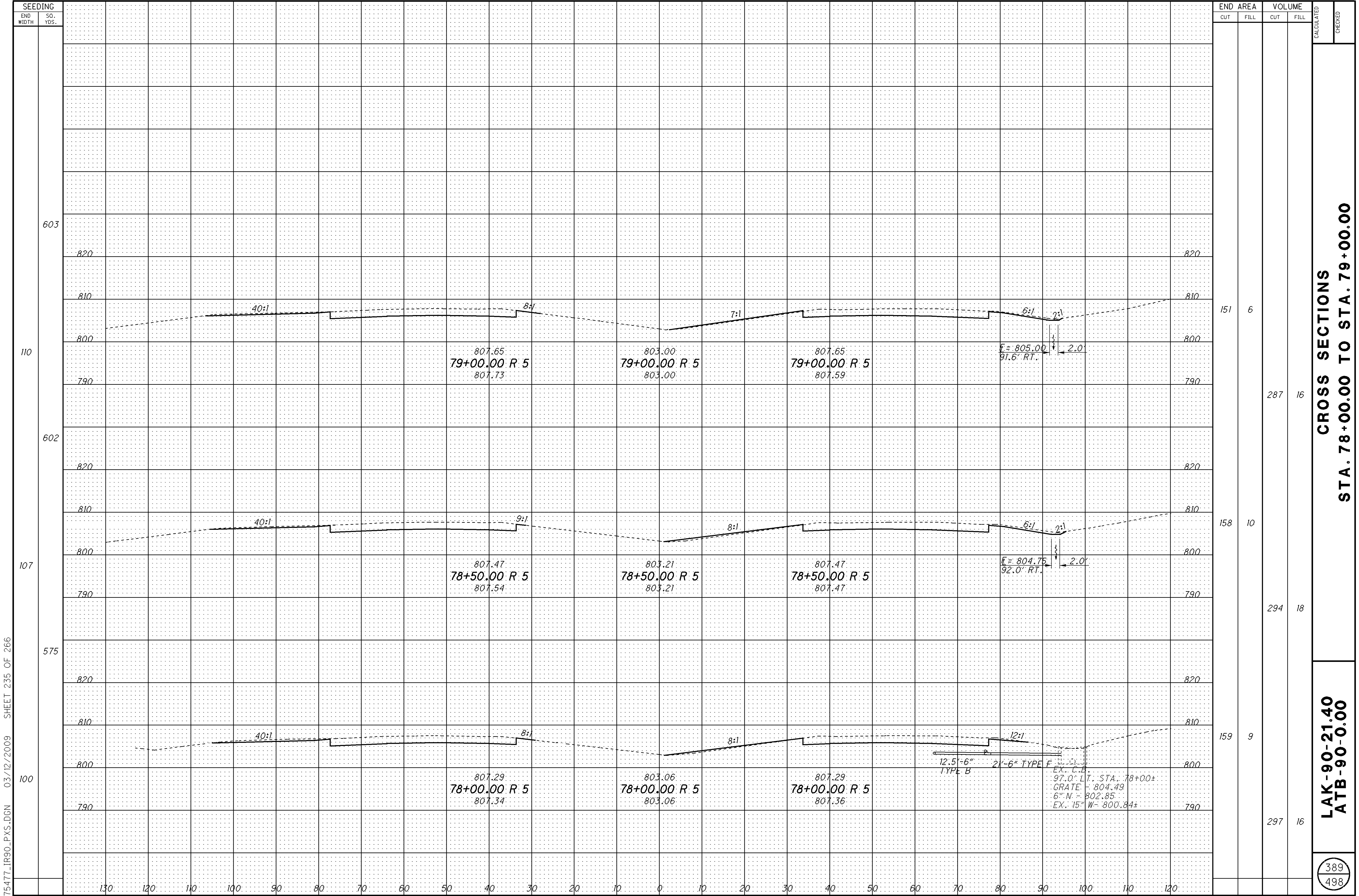


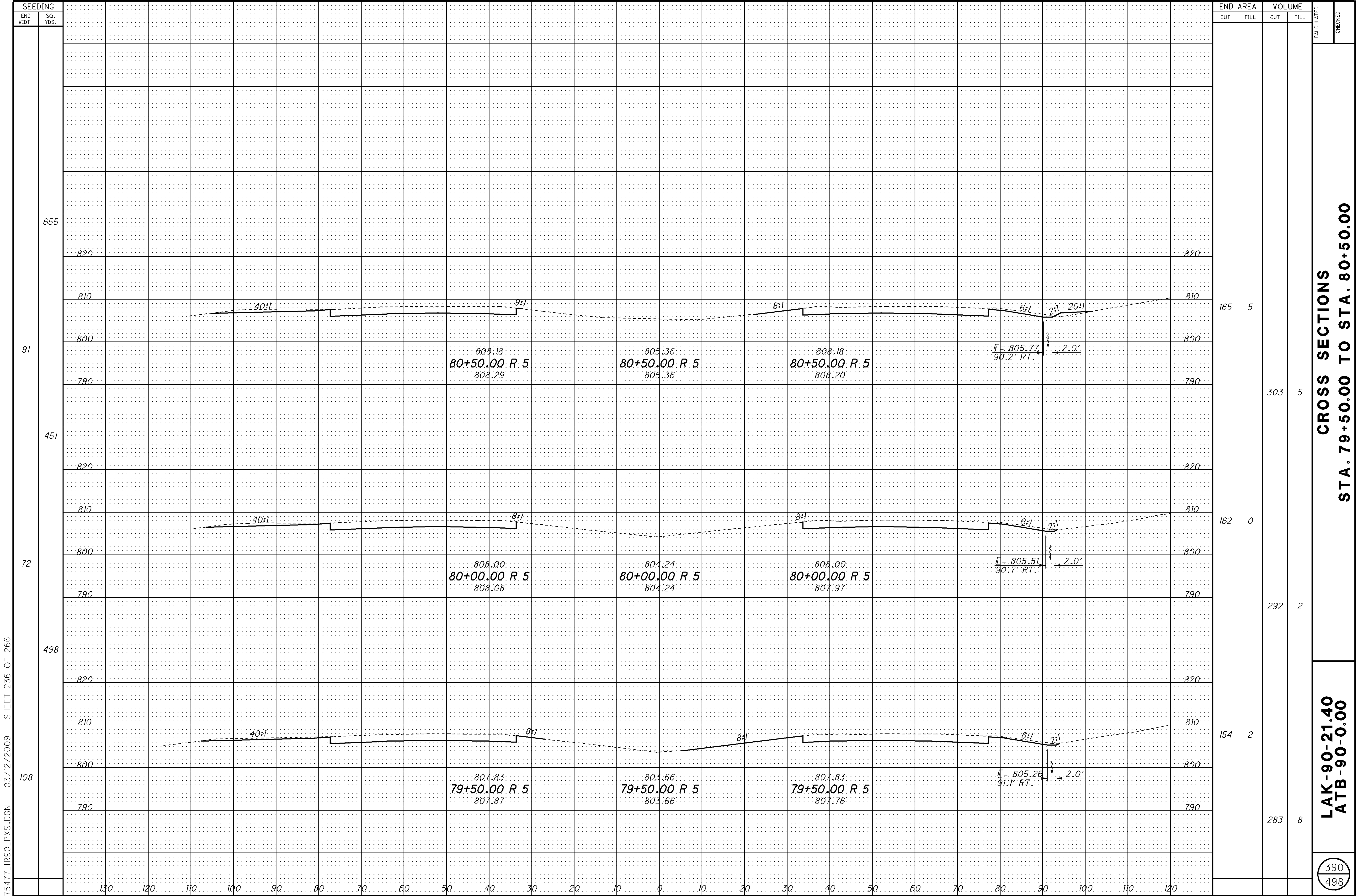
$$\frac{385}{498}$$



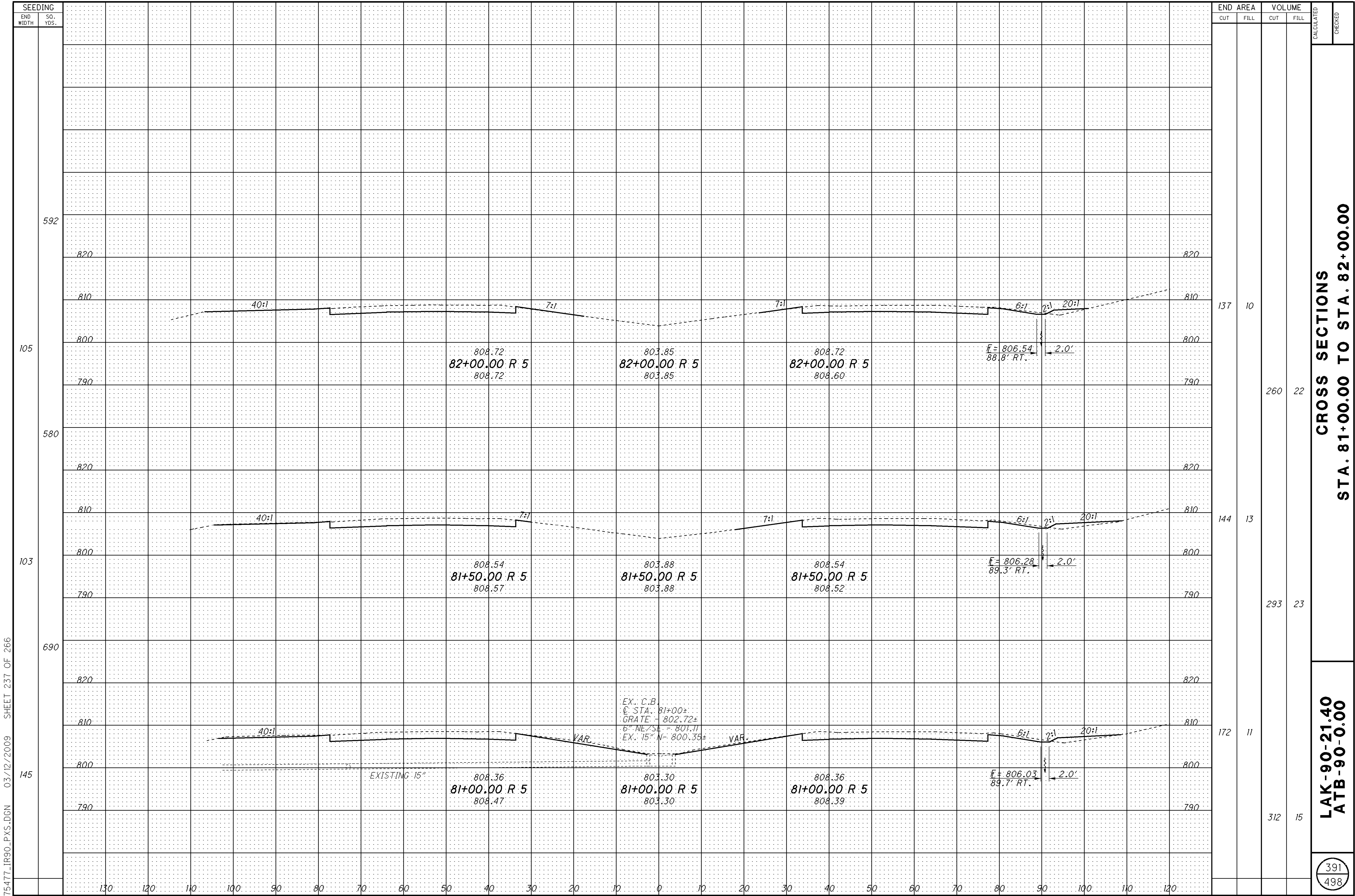


$$\frac{388}{498}$$





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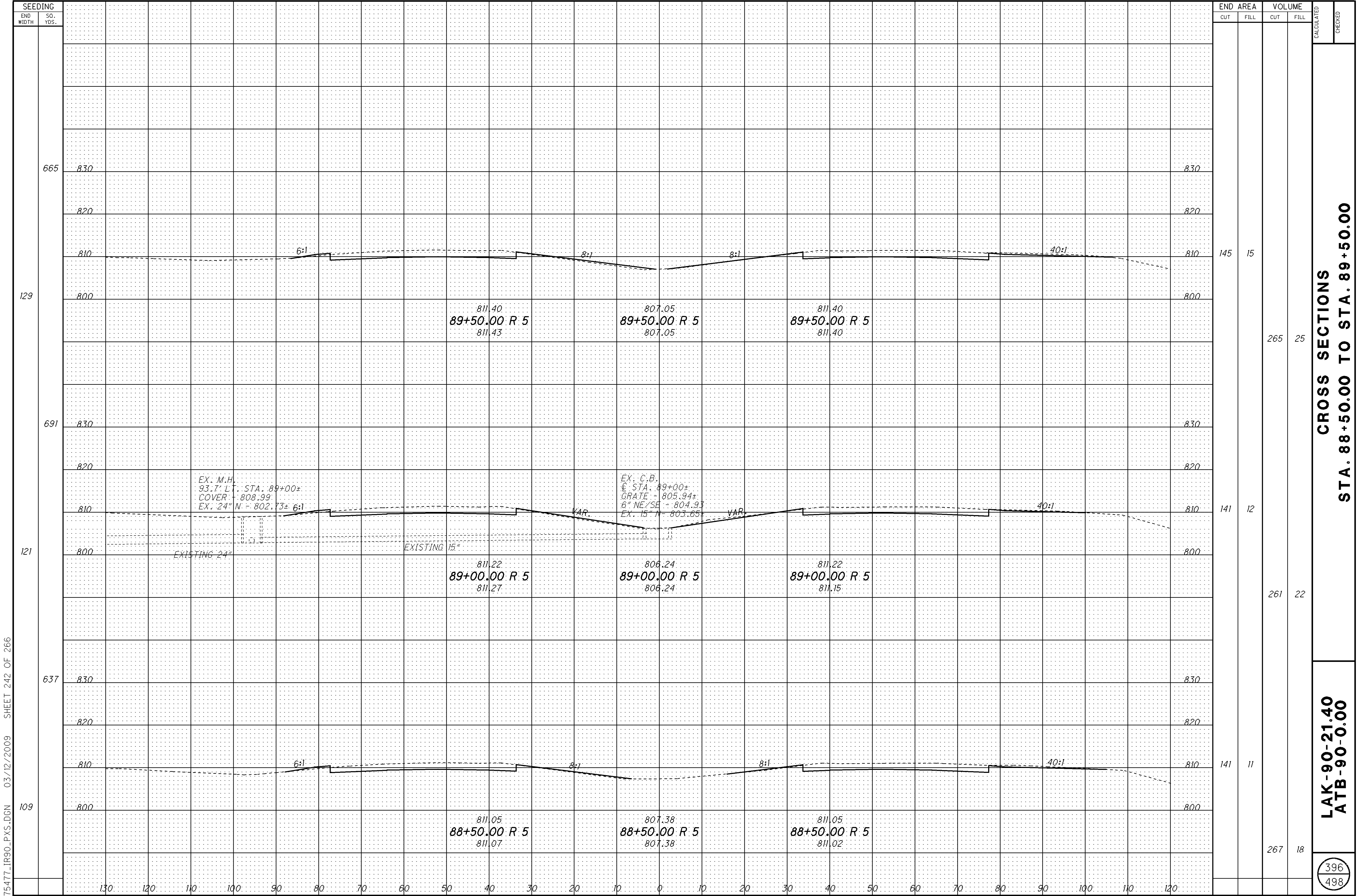


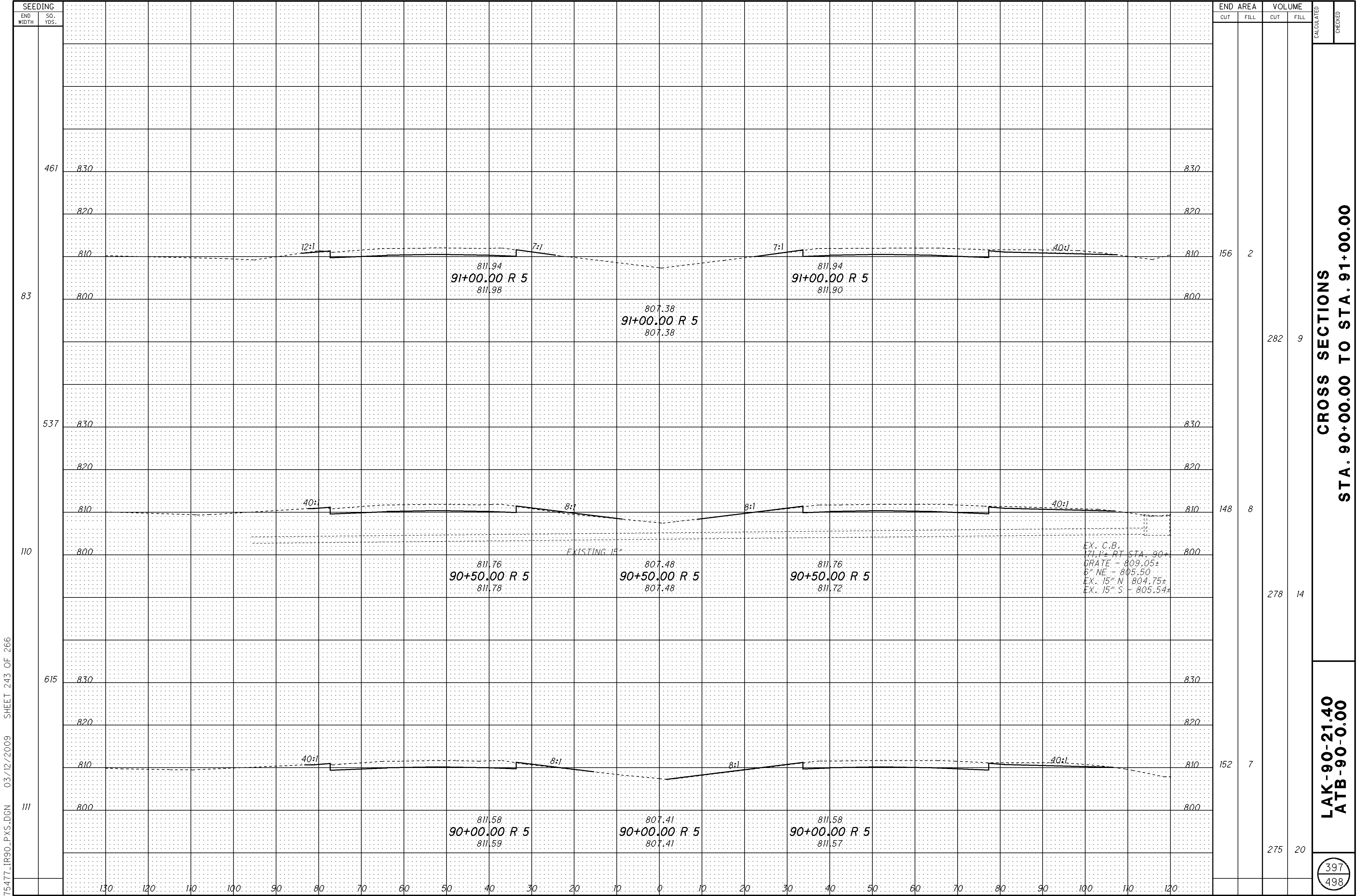
$$\frac{392}{498}$$

393
498

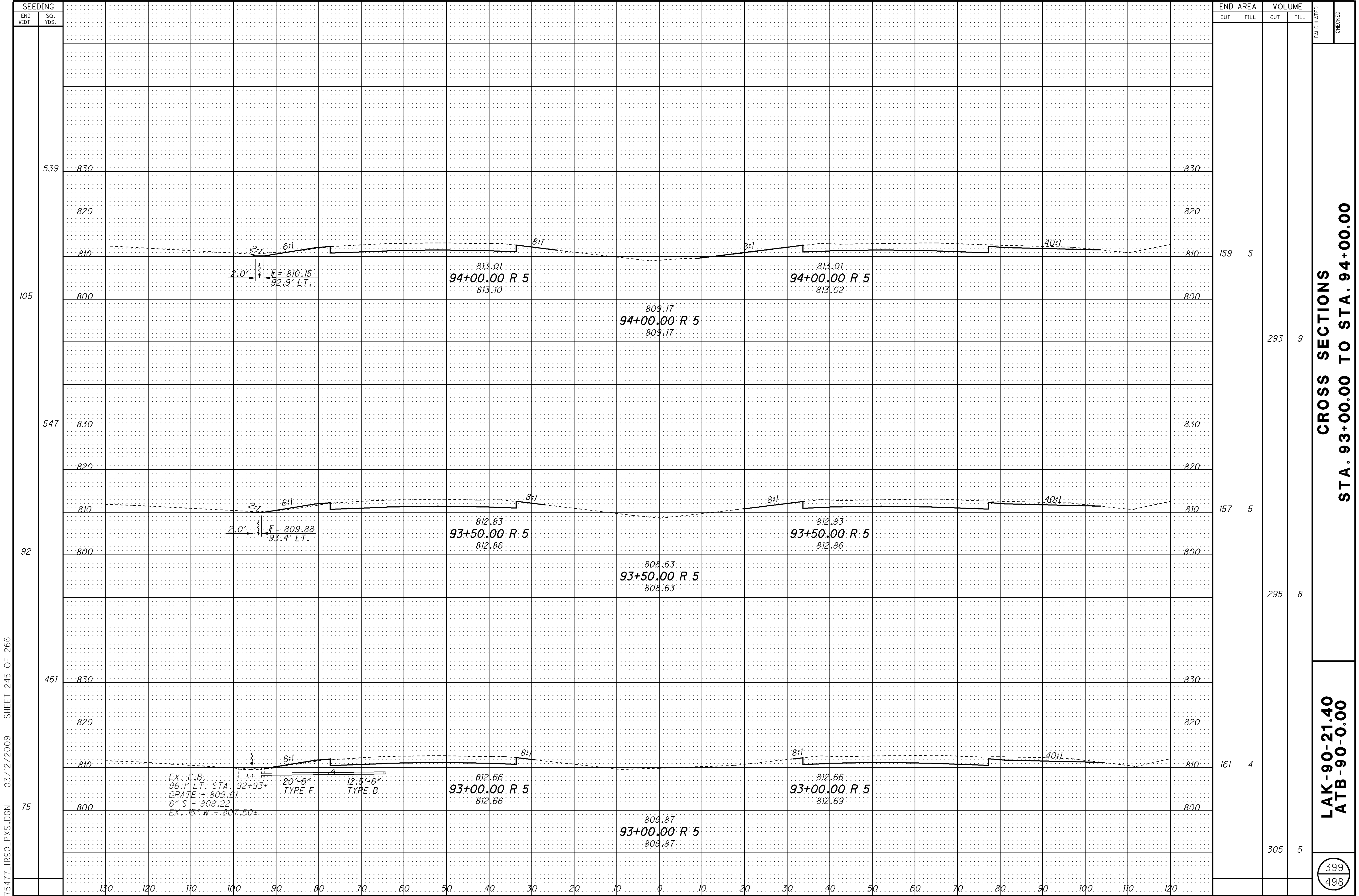
[illegible]

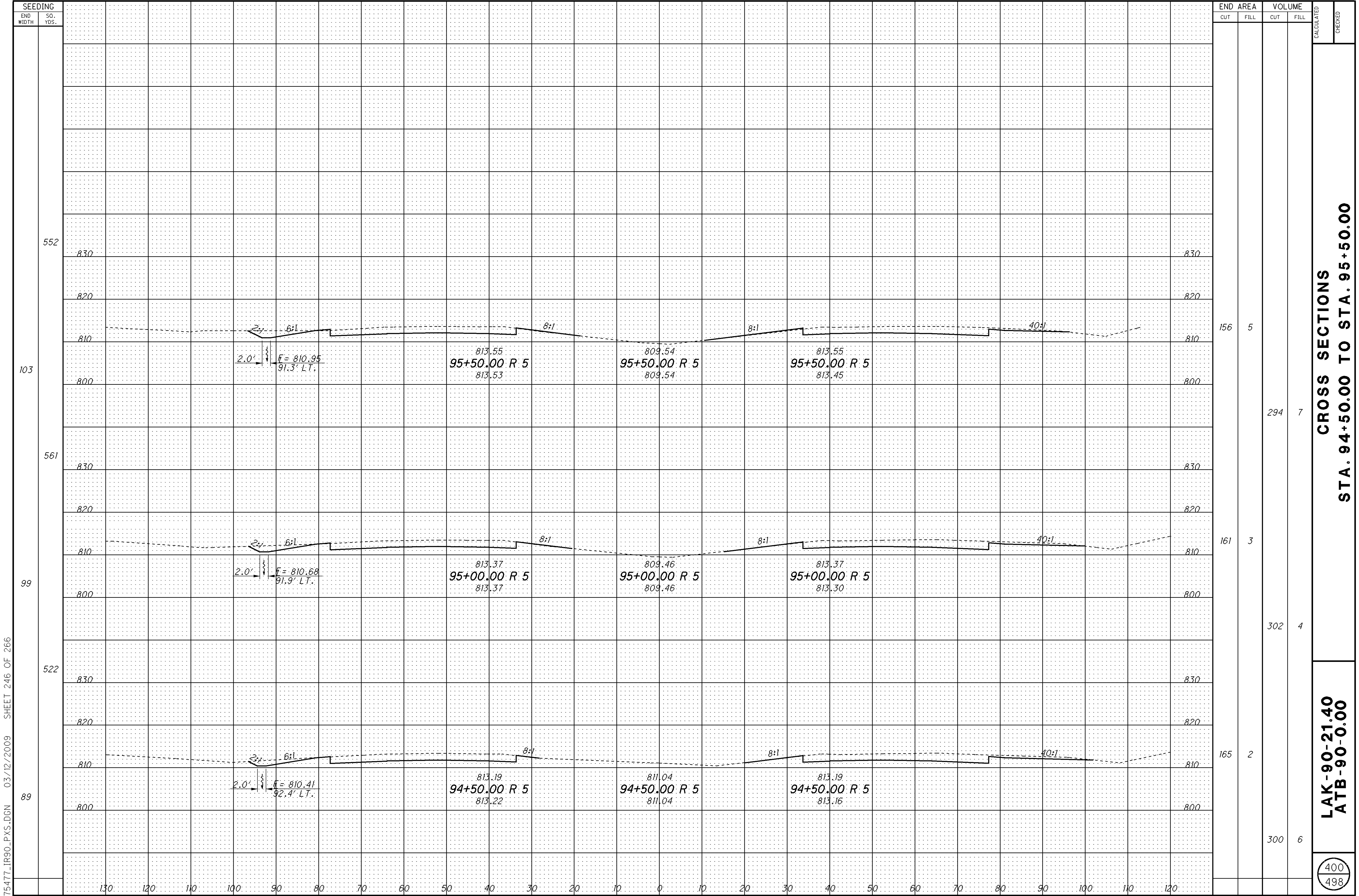
$$\frac{395}{498}$$



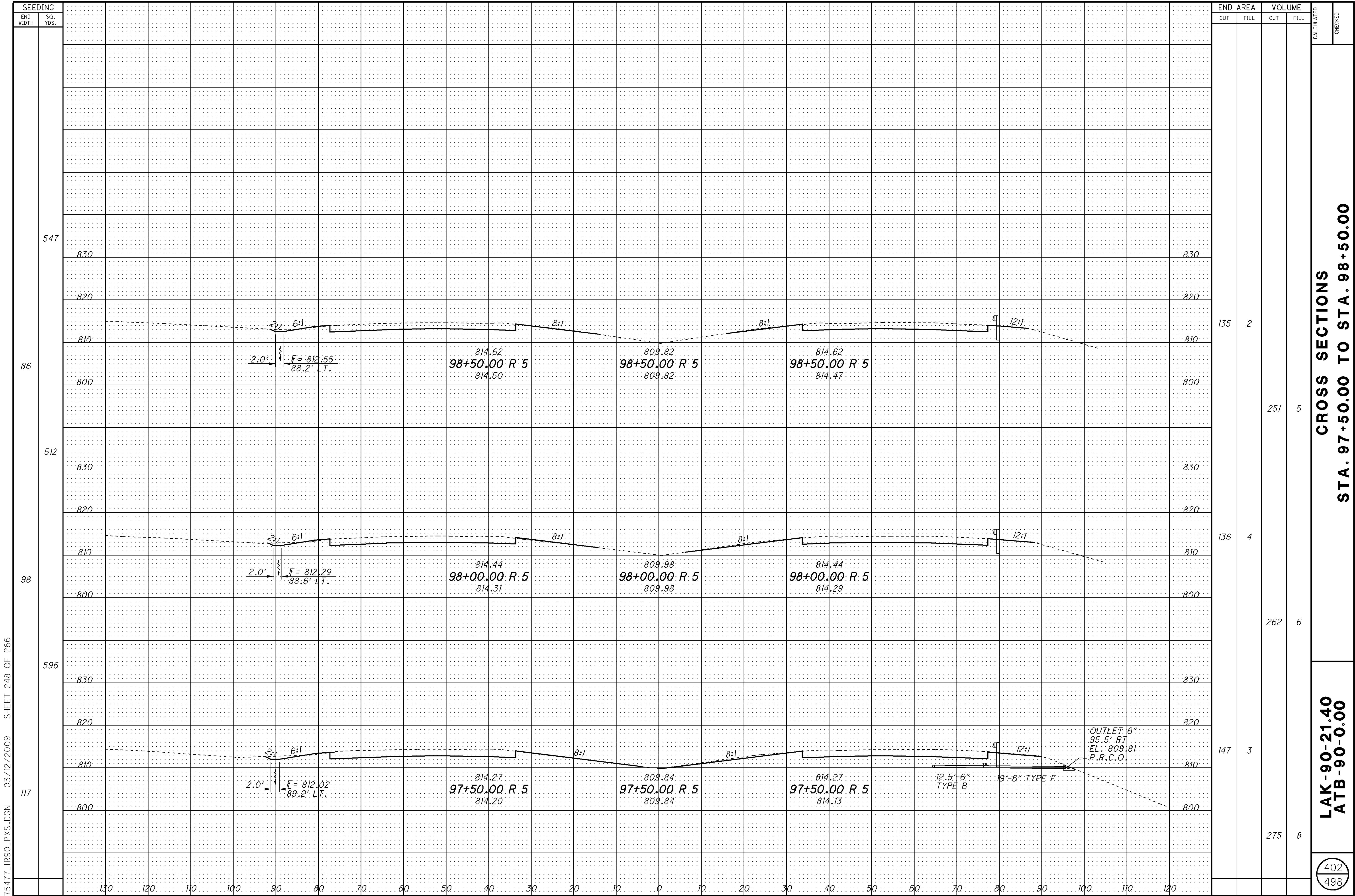


$$\frac{398}{498}$$

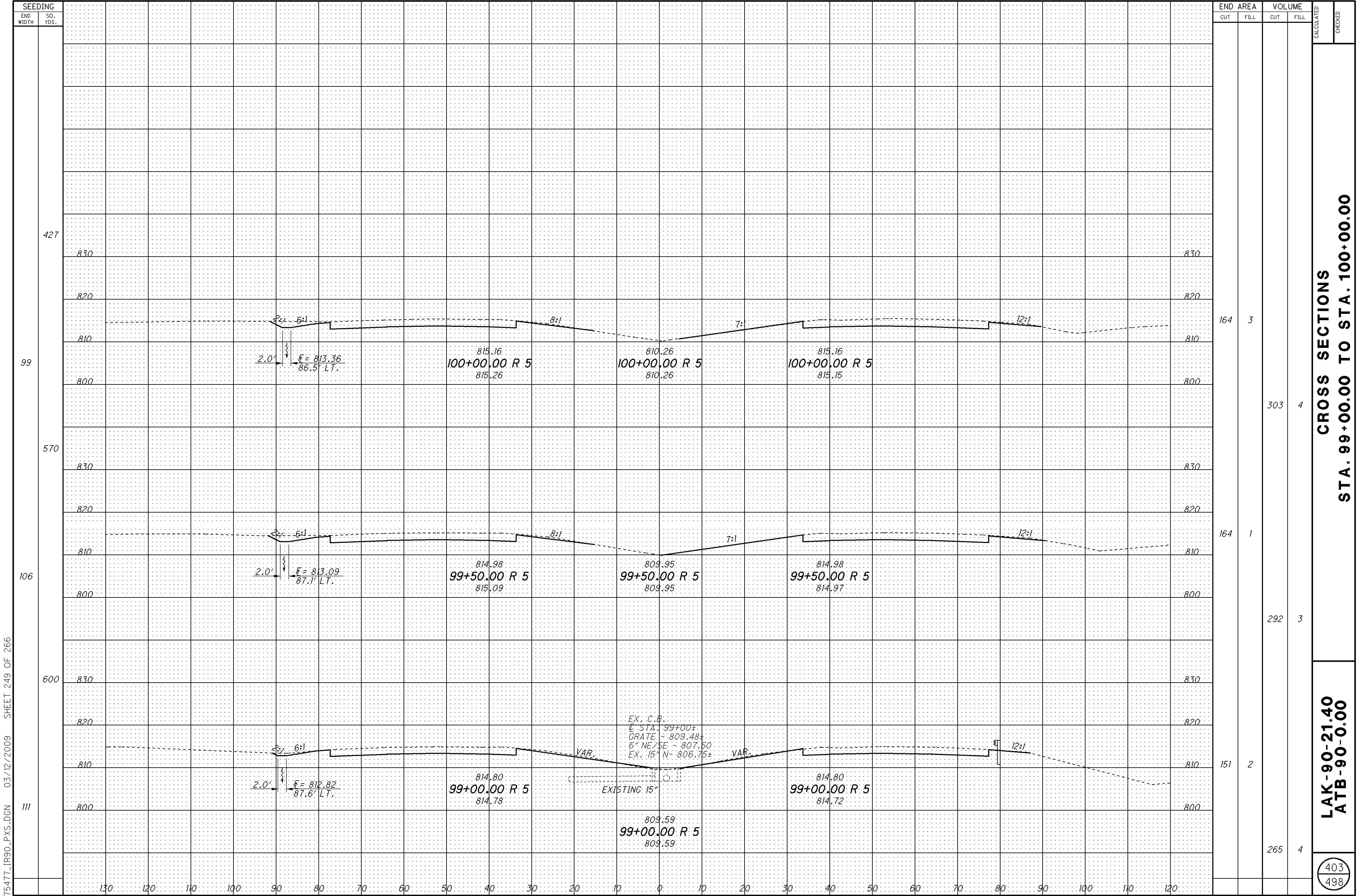


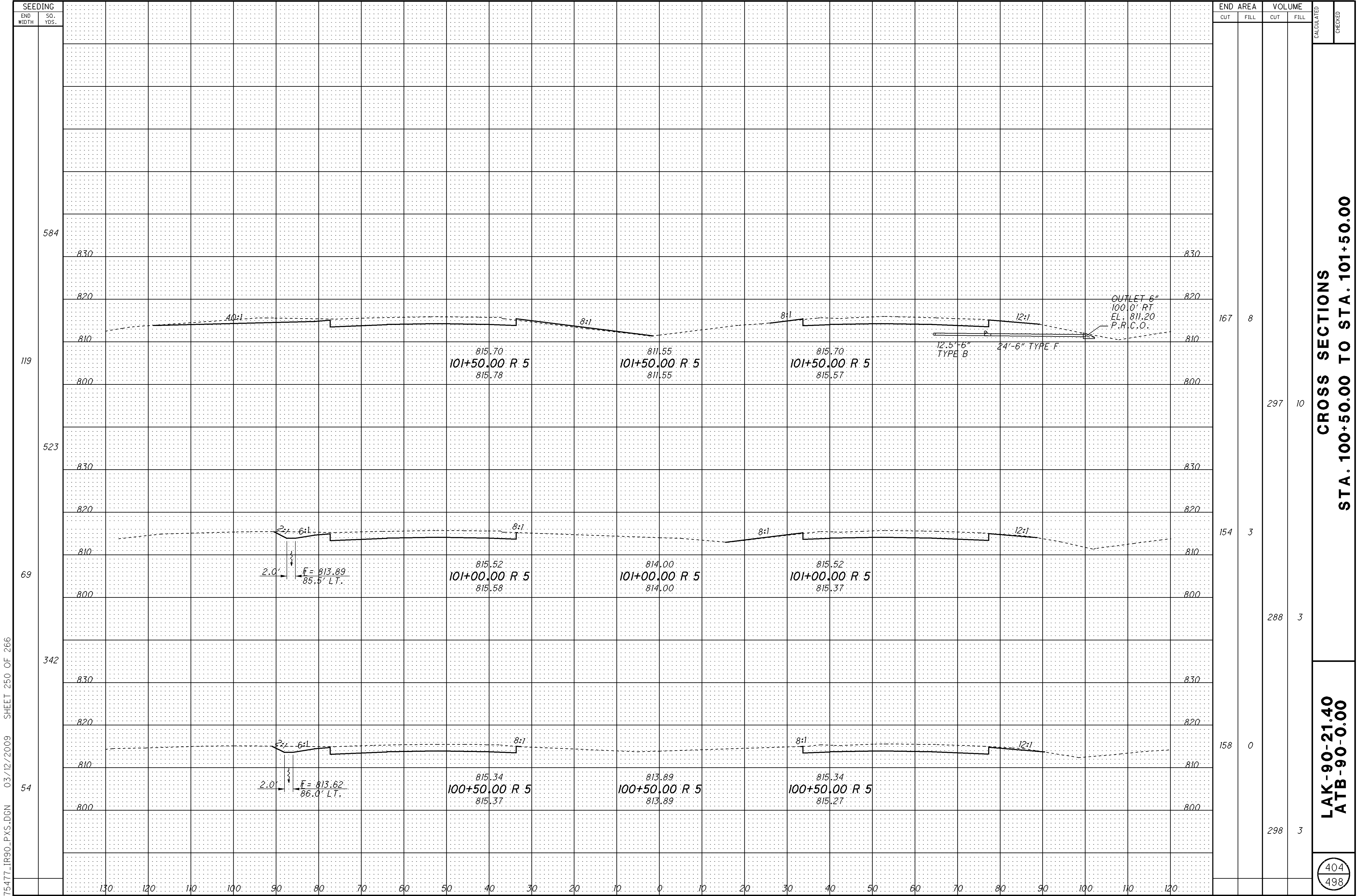


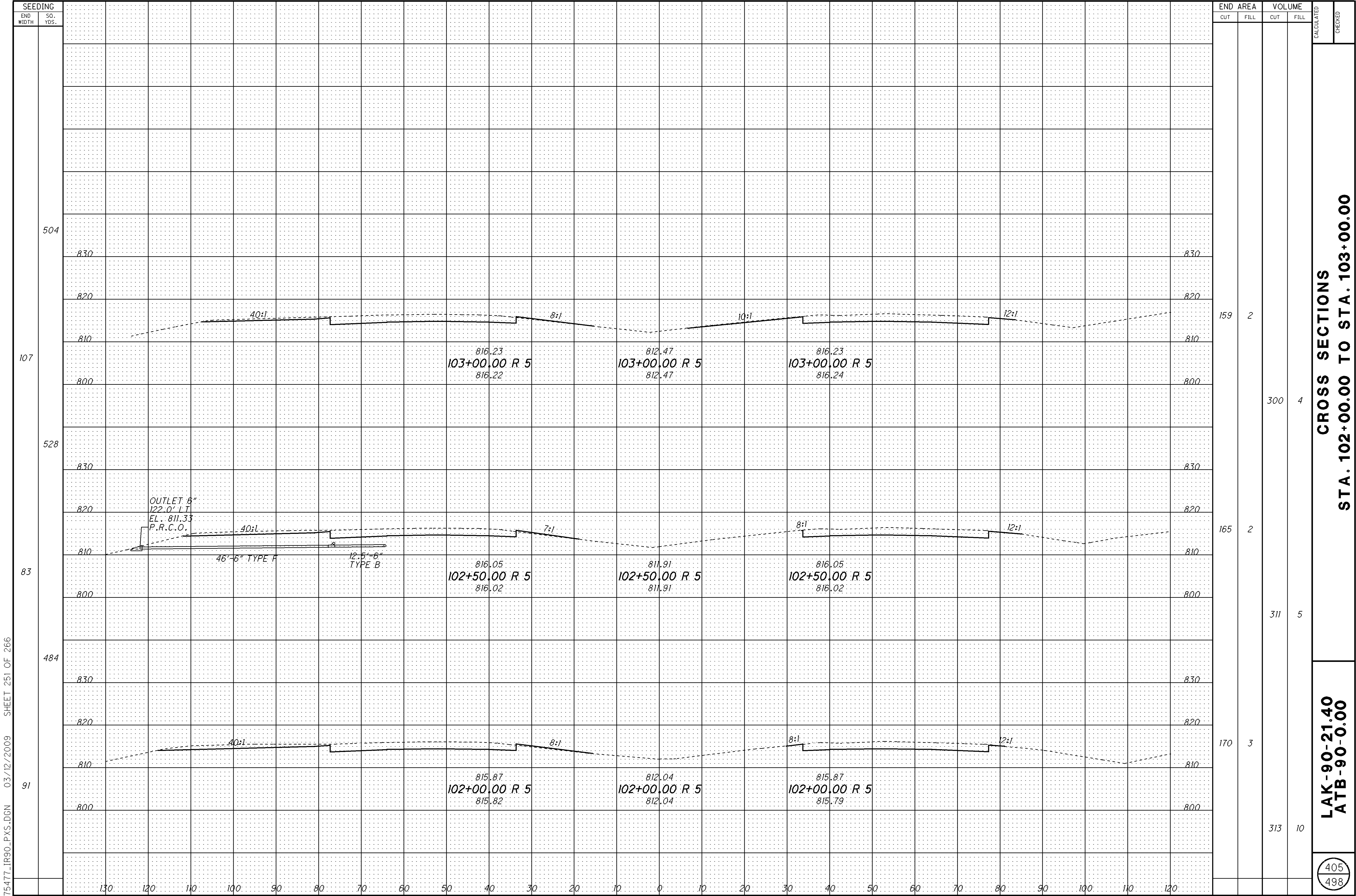
401
498

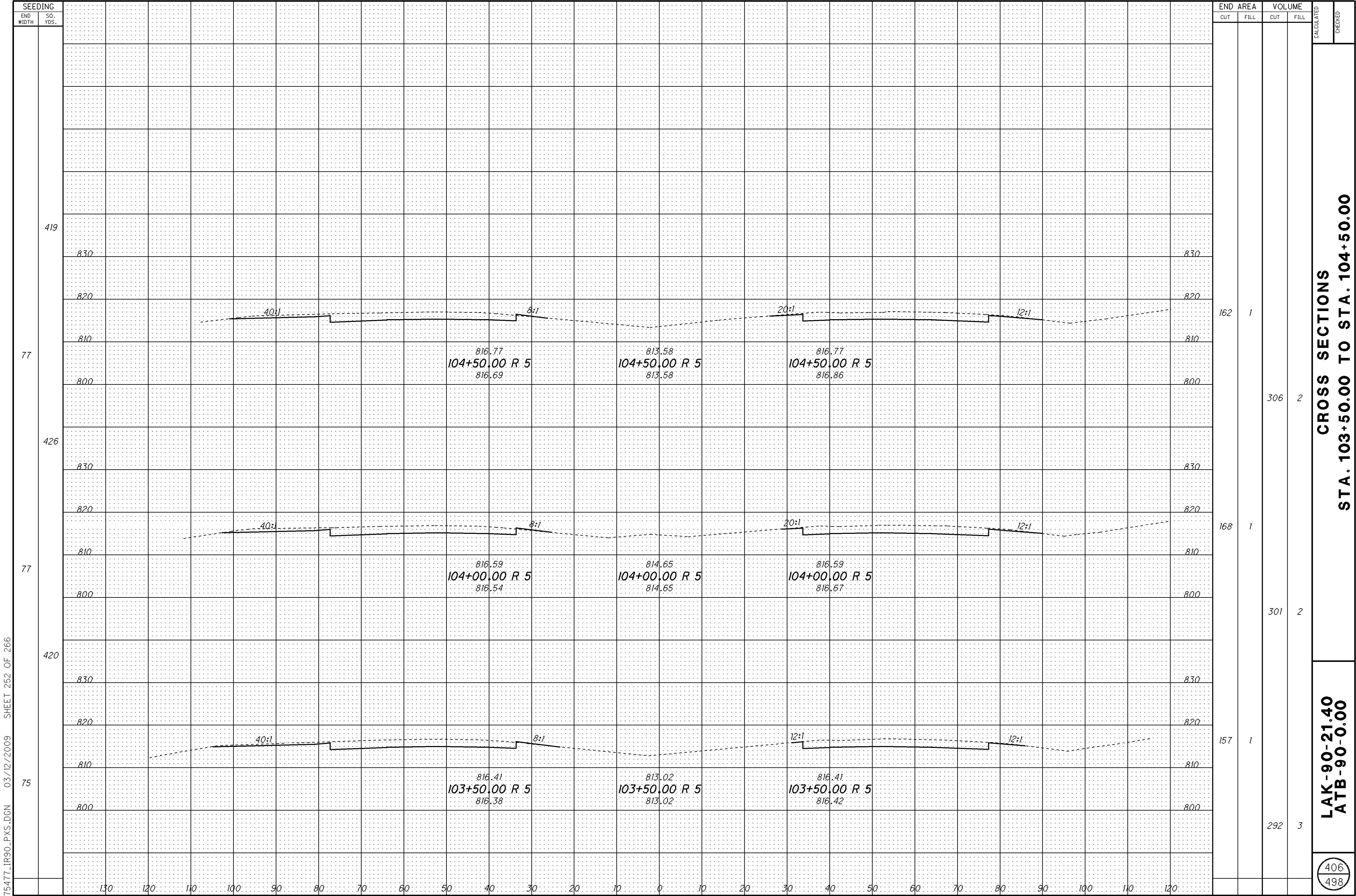


75477_IR90_PXS.DGN 03/12/2009 SHEET 248 OF 266

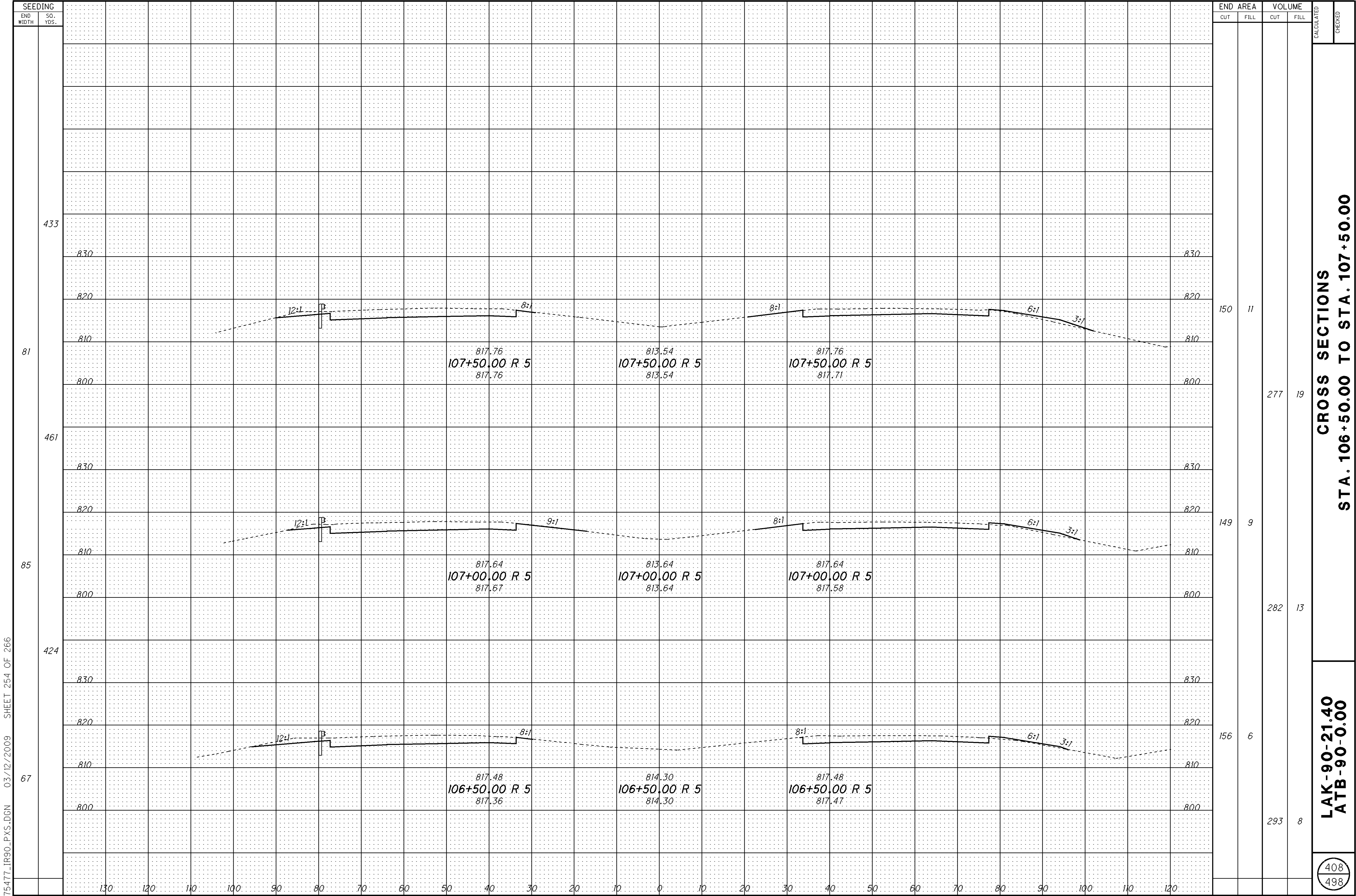


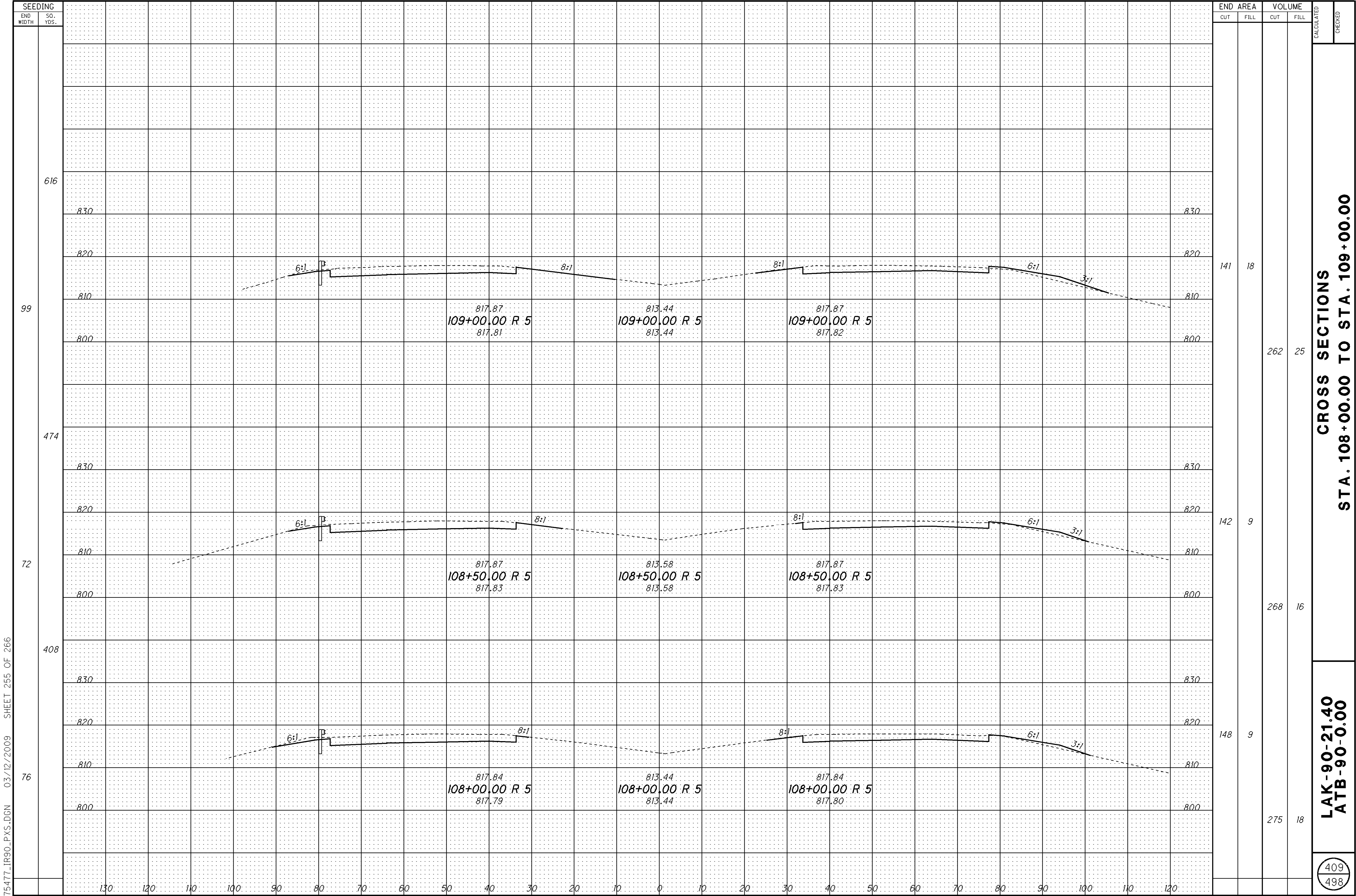


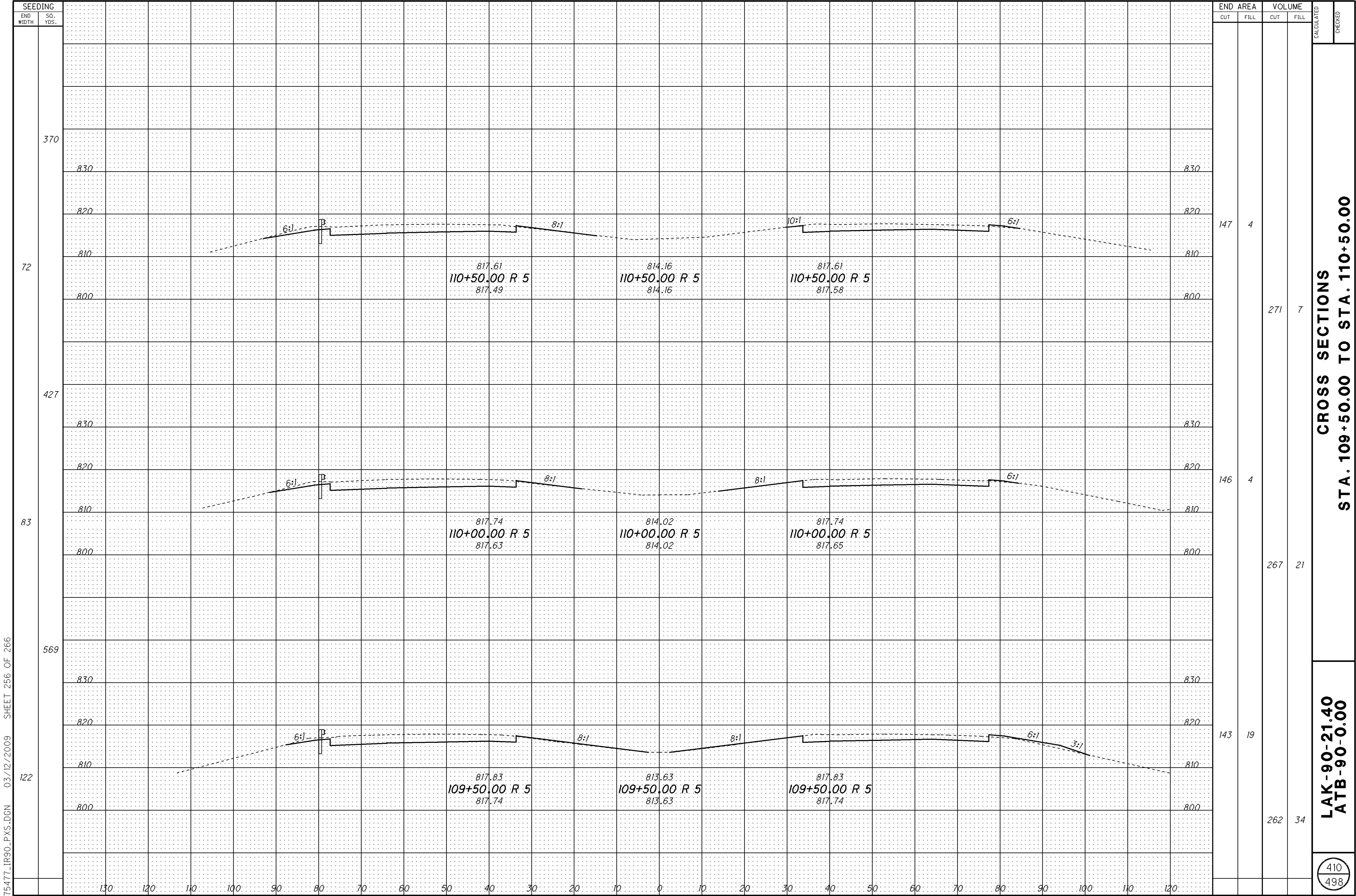




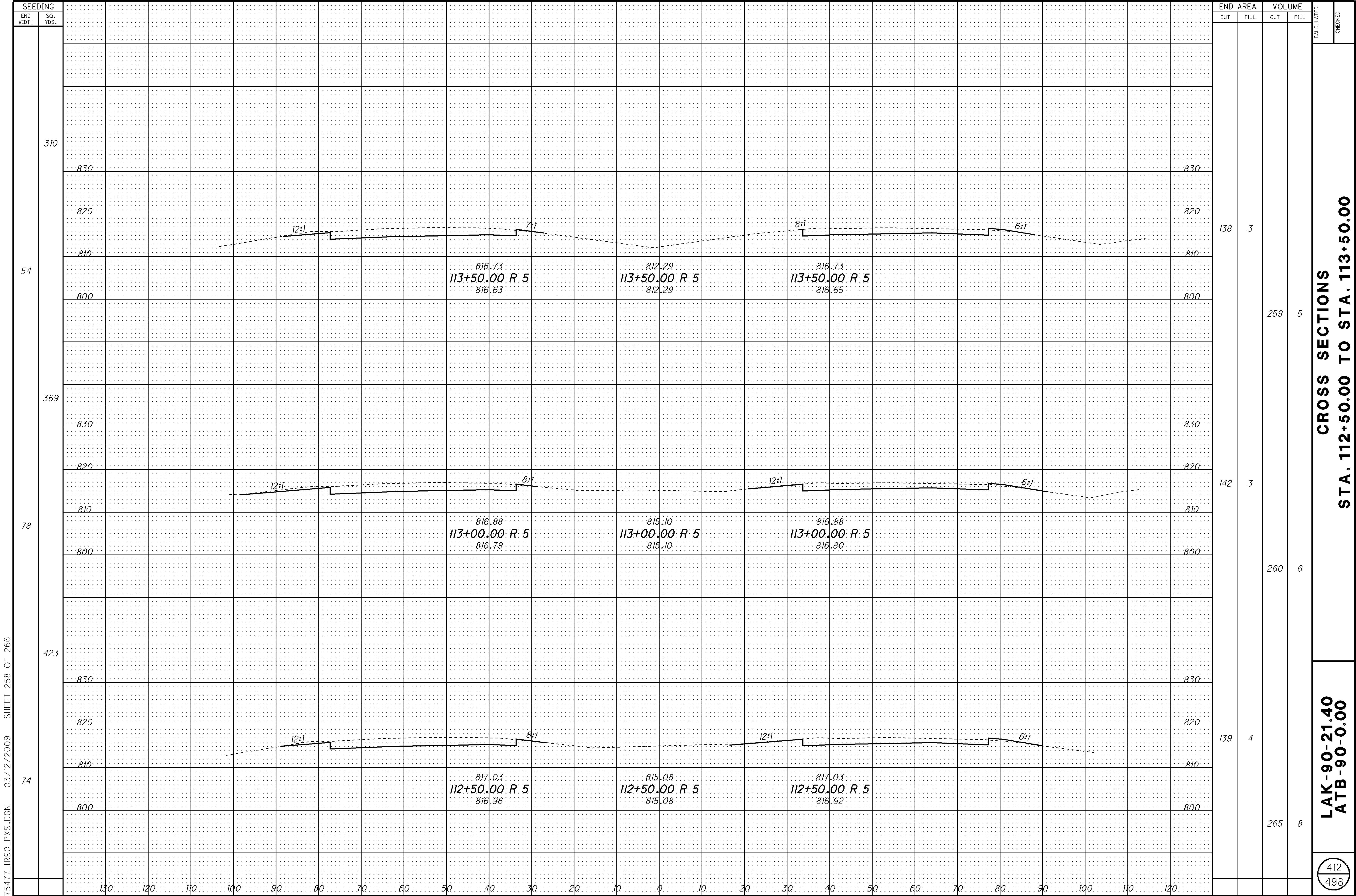
[illegible]

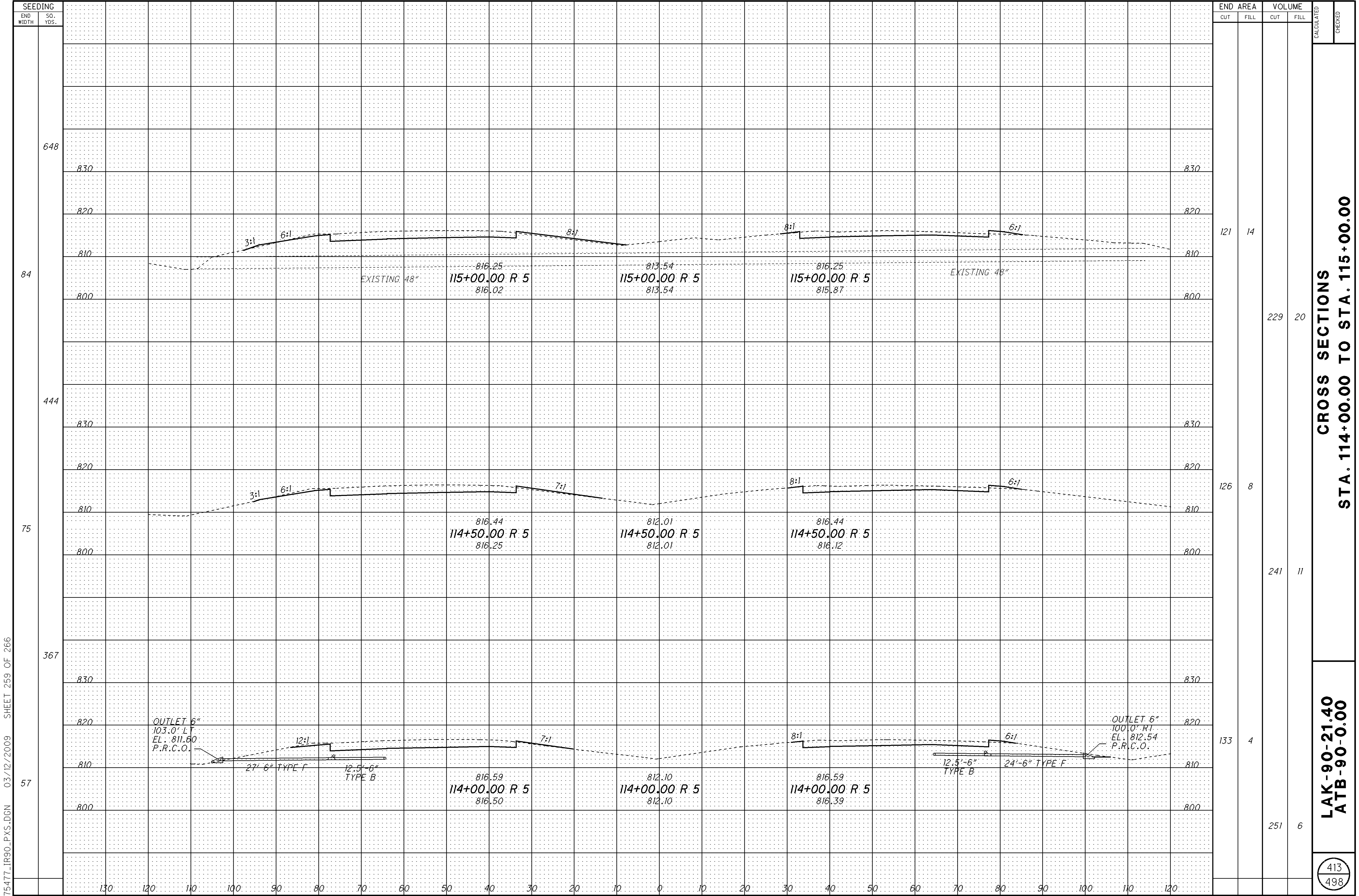


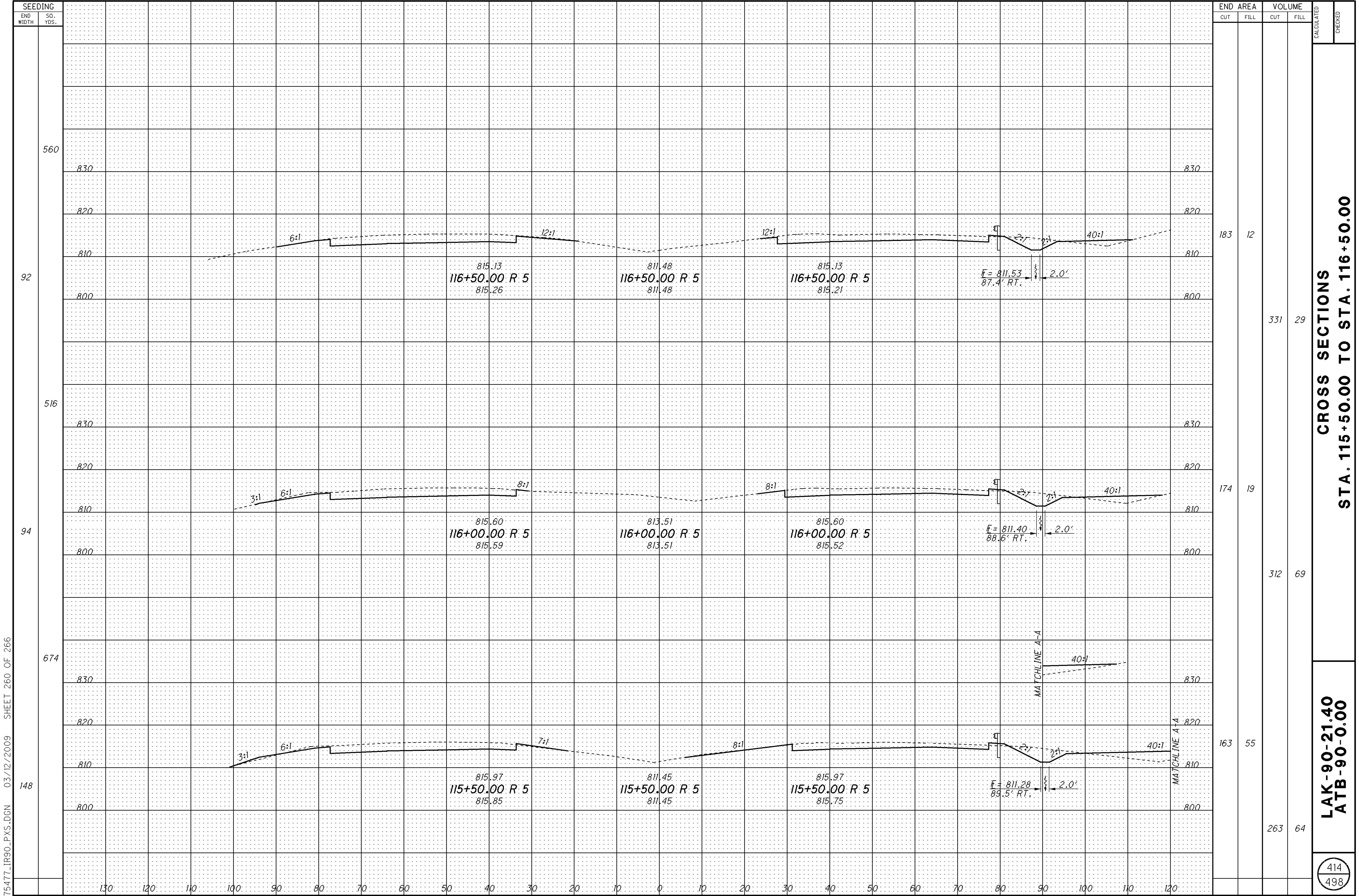


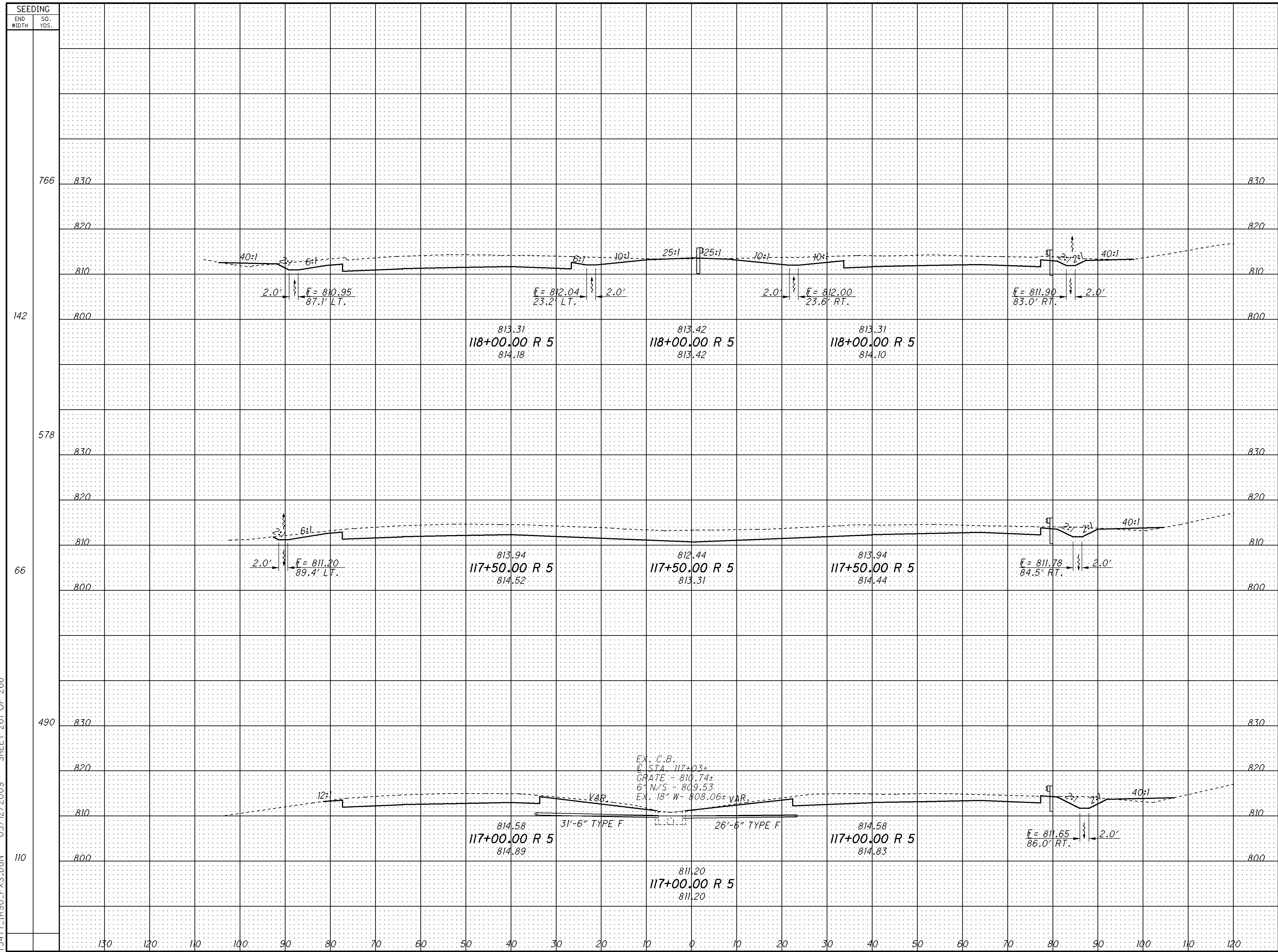


[illegible]

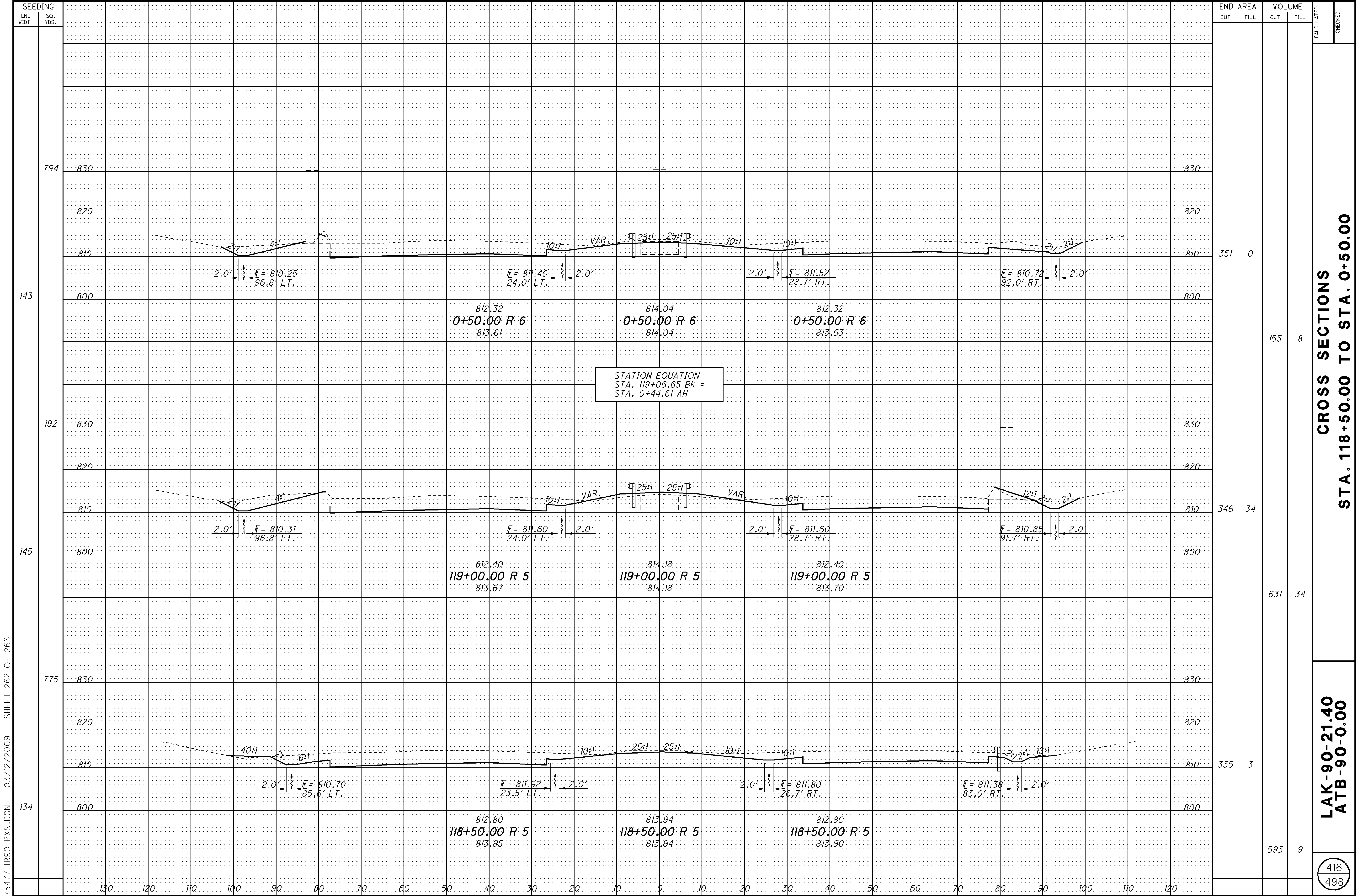


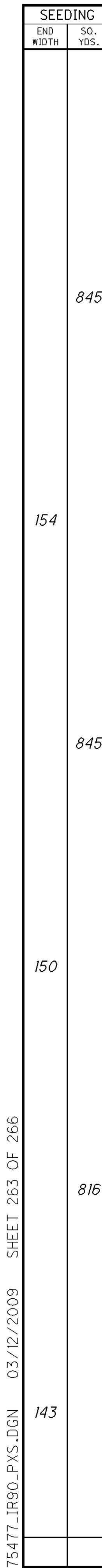




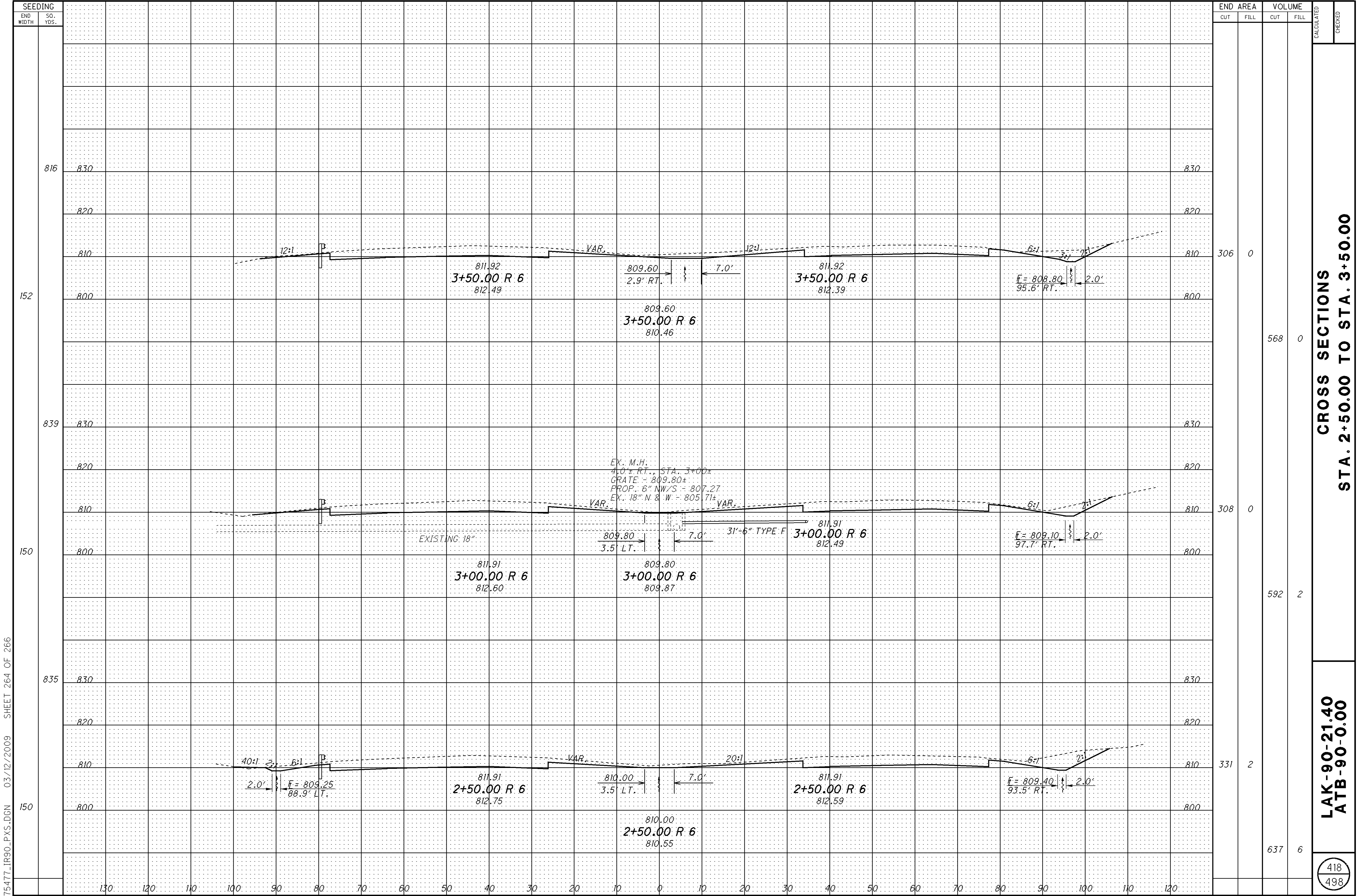


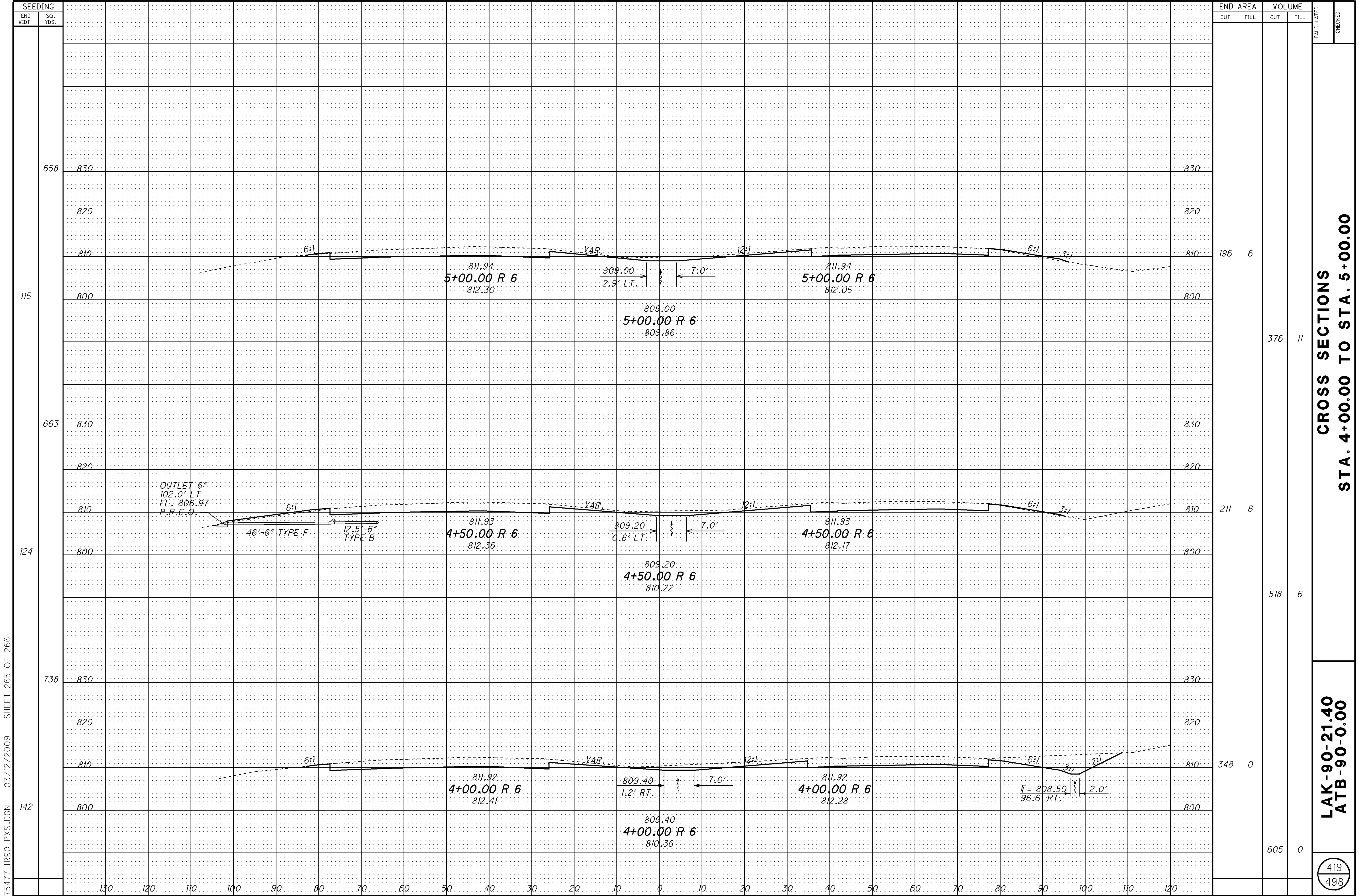
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
306	6	621	9	CROSS SECTIONS STA. 117+00.00 TO STA. 118+00.00	LAK-90-21.40 ATB-90-0.00
365	4	546	10		
225	7	378	18		
				415 498	

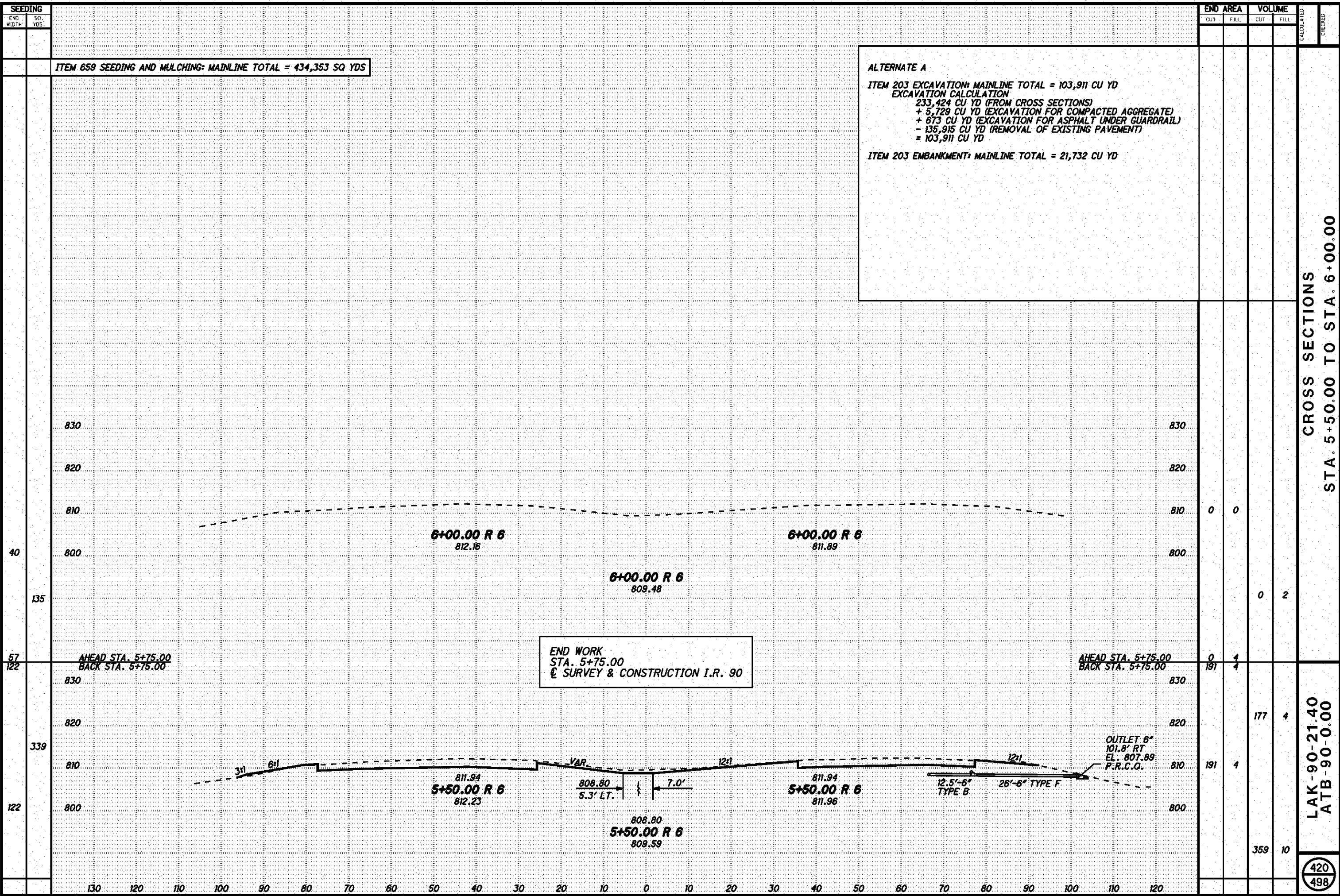




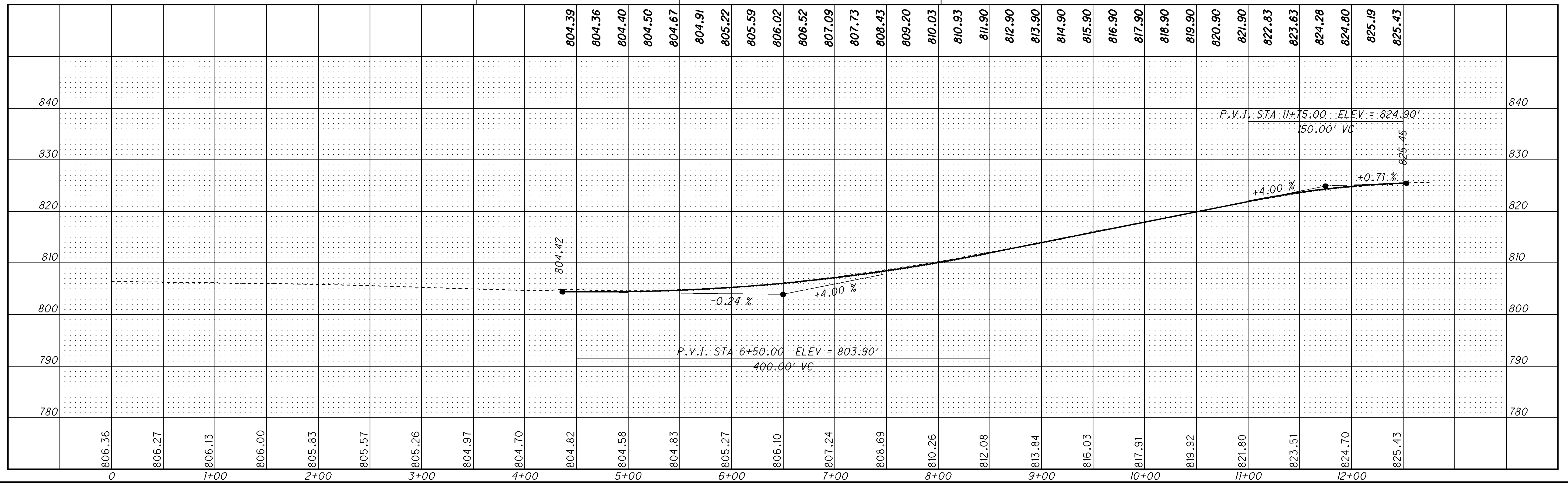
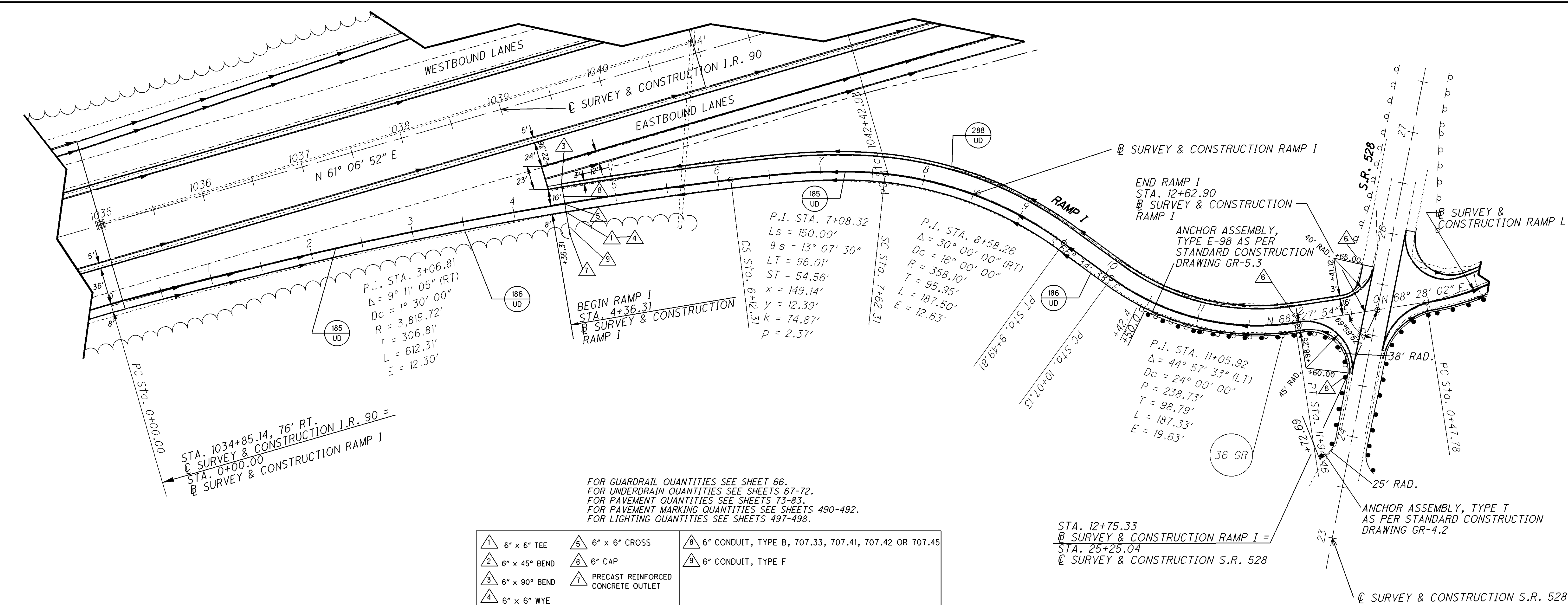
		SEEDING	
		END WIDTH	SO. YDS.
75477_IR90_PXS.DGN	03/12/2009	SHEET 263 OF 266	154
			845
			150
			816
			143



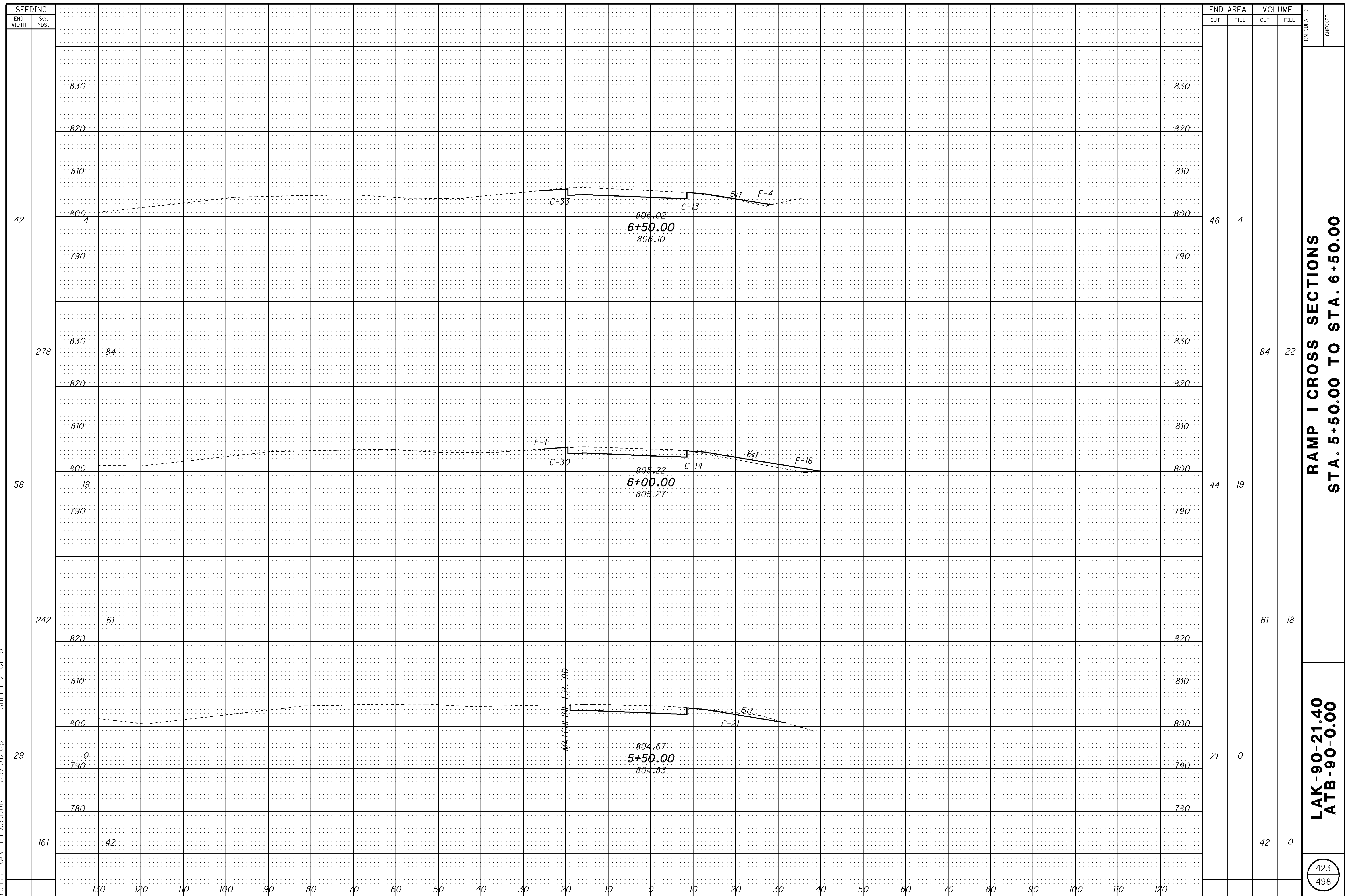




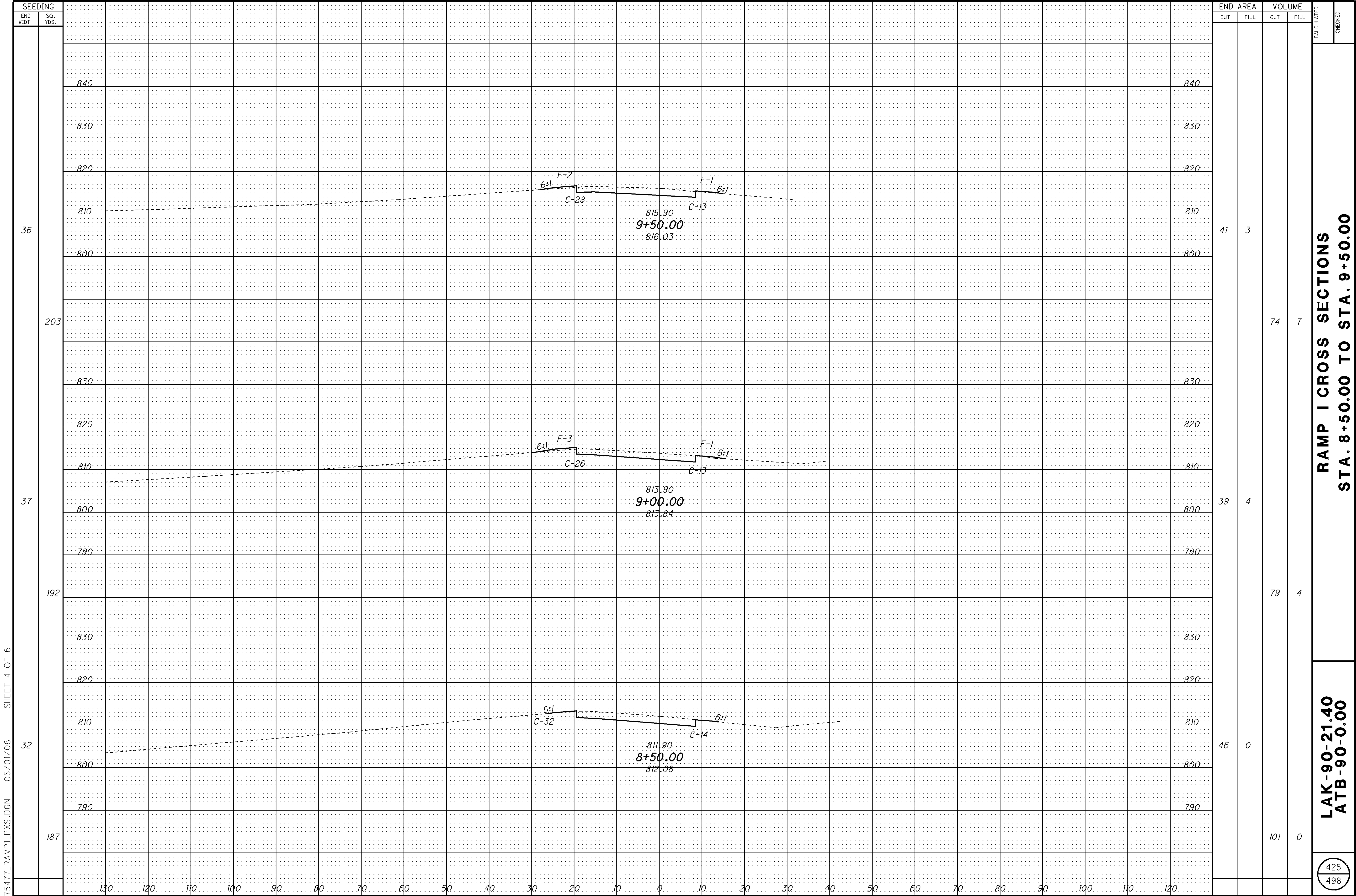
75477RAMP1_PPP01.DGN 05/06/08

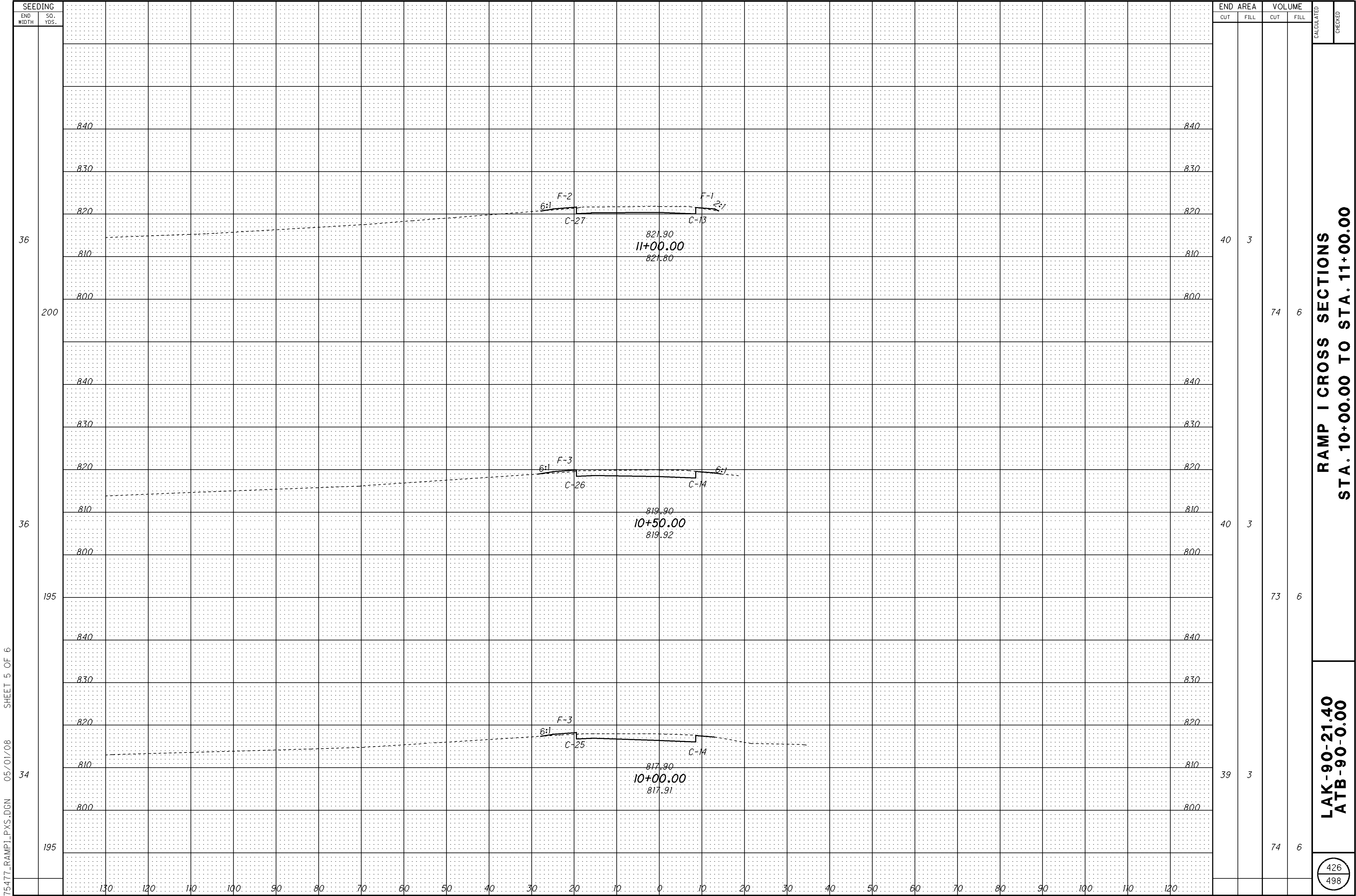


422
498



[illegible]





SEEDING																						RAMP I TOTAL		END AREA		VOLUME		CALCULATED	CHECKED		
END WIDTH	SQ. YDS.																					CUT	FILL	CUT	FILL						
24	3,269	TOTAL FOR RAMP I																				ITEM 203 EXCAVATION: 358 CU YD 1,296 CU YD (FROM CROSS SECTIONS) - 938 CU YD (PAVEMENT REMOVAL) = 358 CU YD									
																						ITEM 203 EMBANKMENT: 77 CU YD									
		BACK STA. 12+53.09																				BACK STA. 12+53.09				54	0				
		840																				840									
	9	830																				830									
		820																				820									
	24	810																				810									
	153																														
		840																				840									
		830																				830									
		820																				820									
	31	810																				810									
		800																				800									
	175																														
	840																				840										
	830																				830										
	820																				820										
32	810																				810										
	800																				800										
189																															
		130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120				

END WORK
STA. 12+53.09

SEE PAVEMENT
DETAIL SHEET 456

C-33
C-21
825.43
12+50.00
825.43

C-32
C-13
824.80
12+00.00
824.70

C-31
C-13
F-1 2:1
823.63
11+50.00
823.51

END AREA

CUT

FILL

VOLUME

CUT

FILL

427

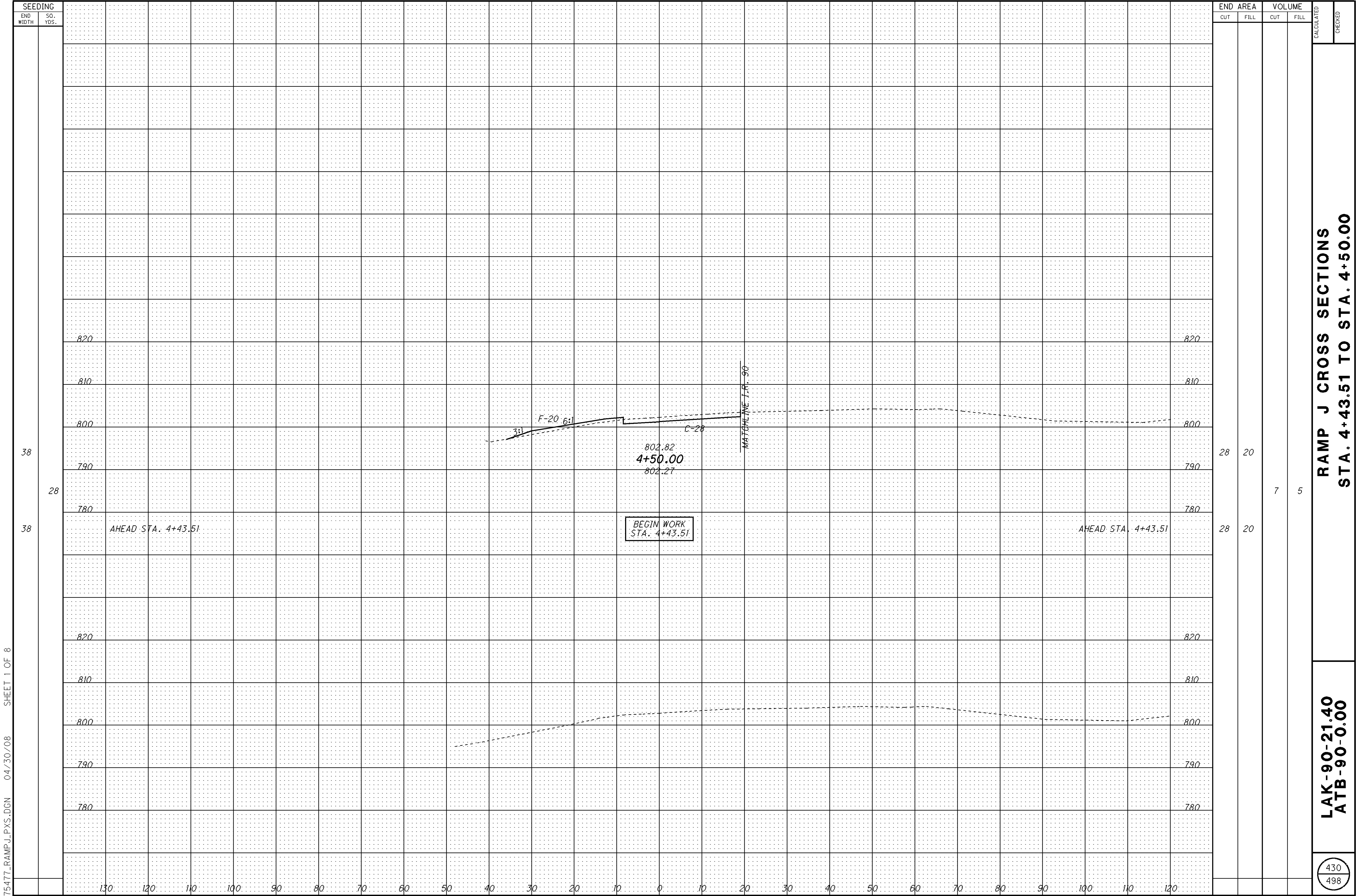
498

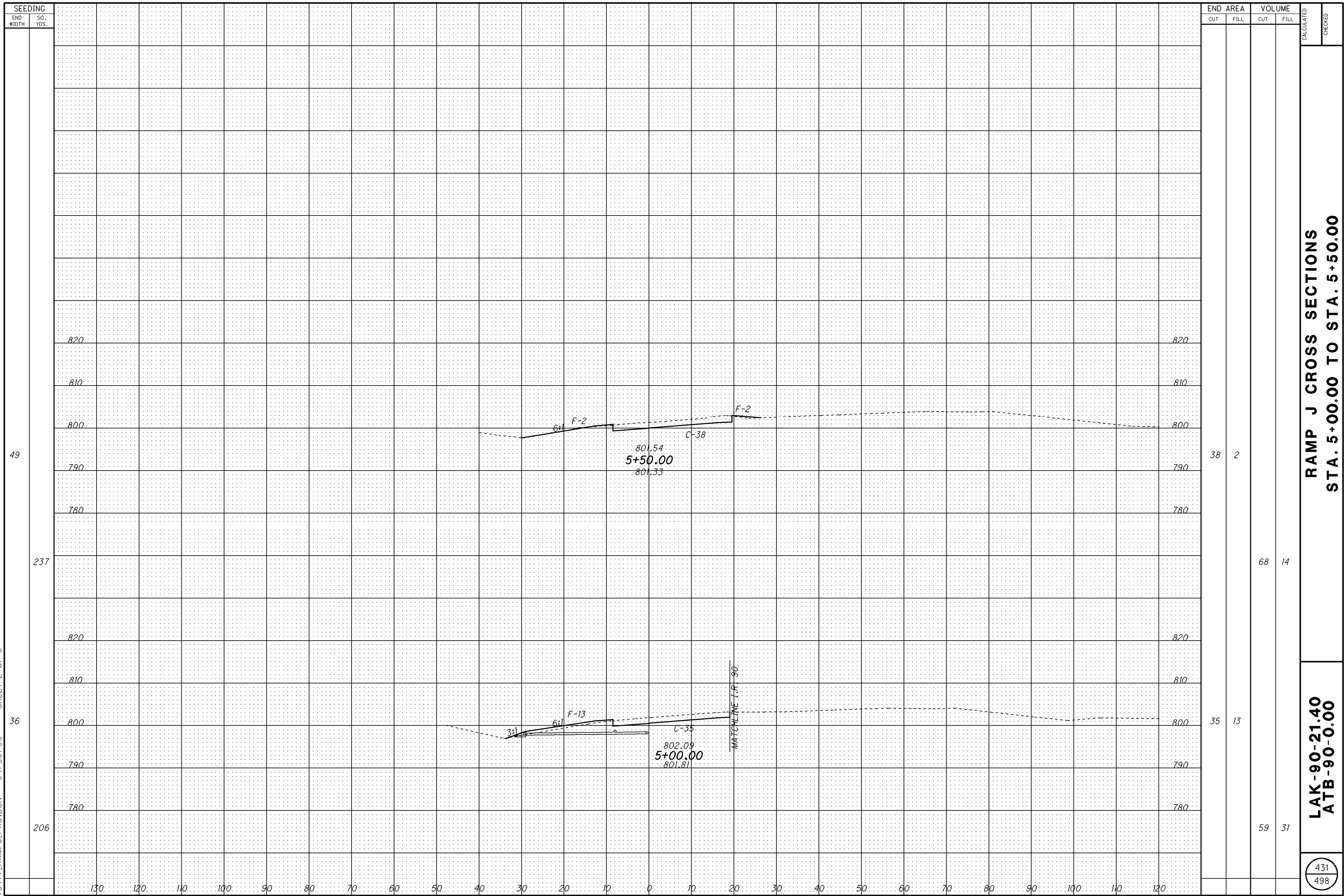
RAMP I CROSS SECTIONS

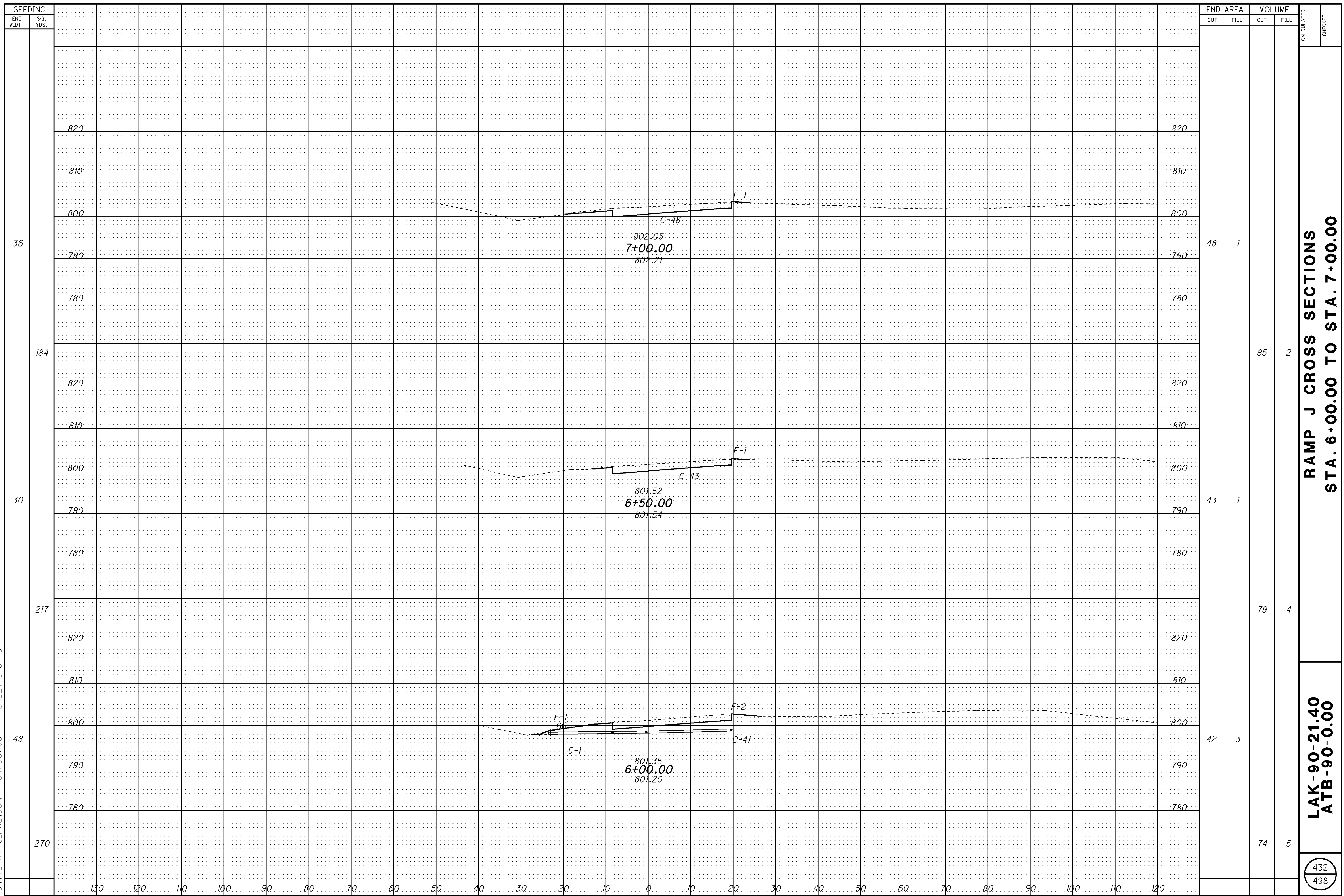
STA. 11+50.00 TO STA. 12+53.09

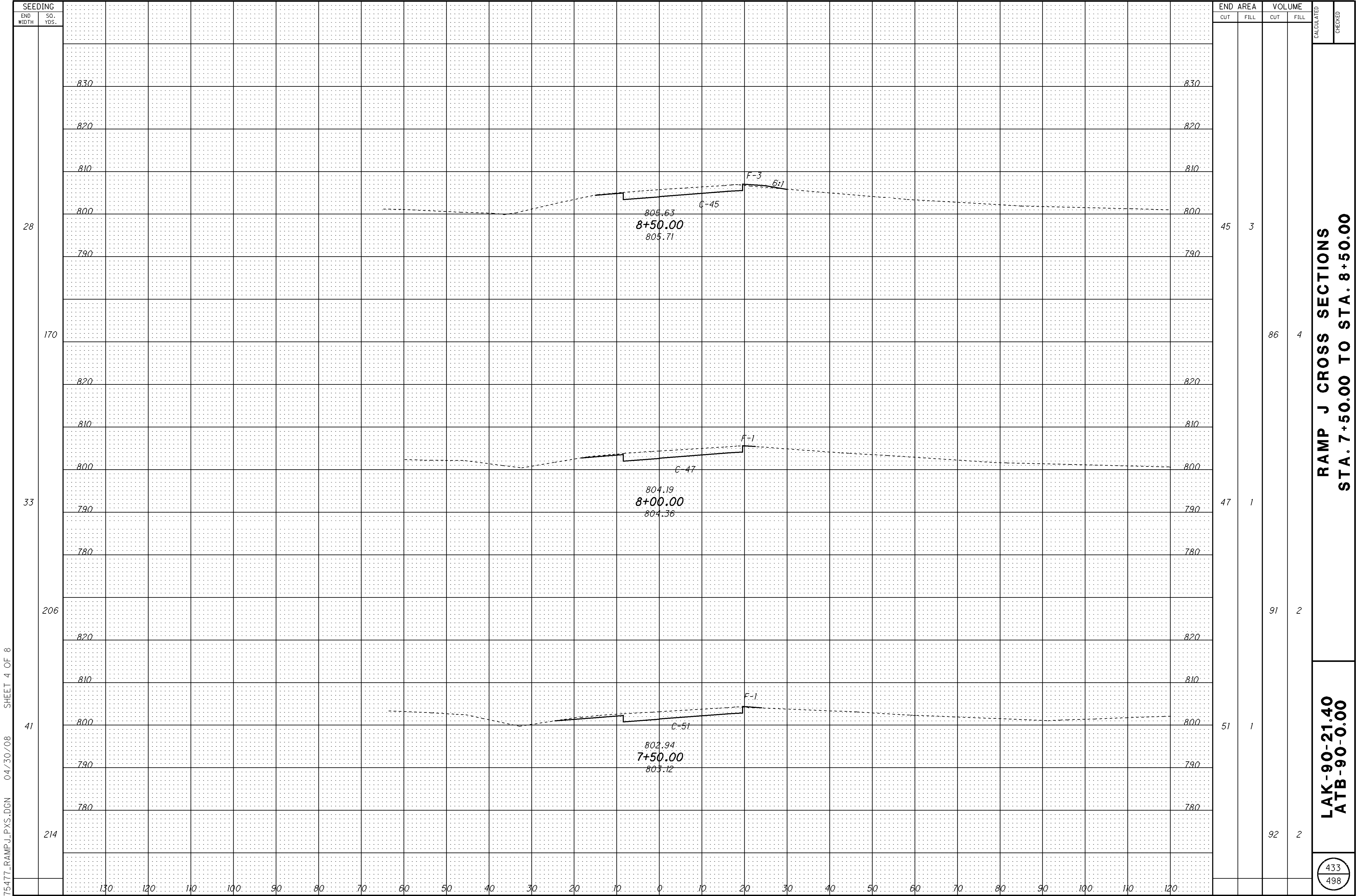
LAK-90-21.40

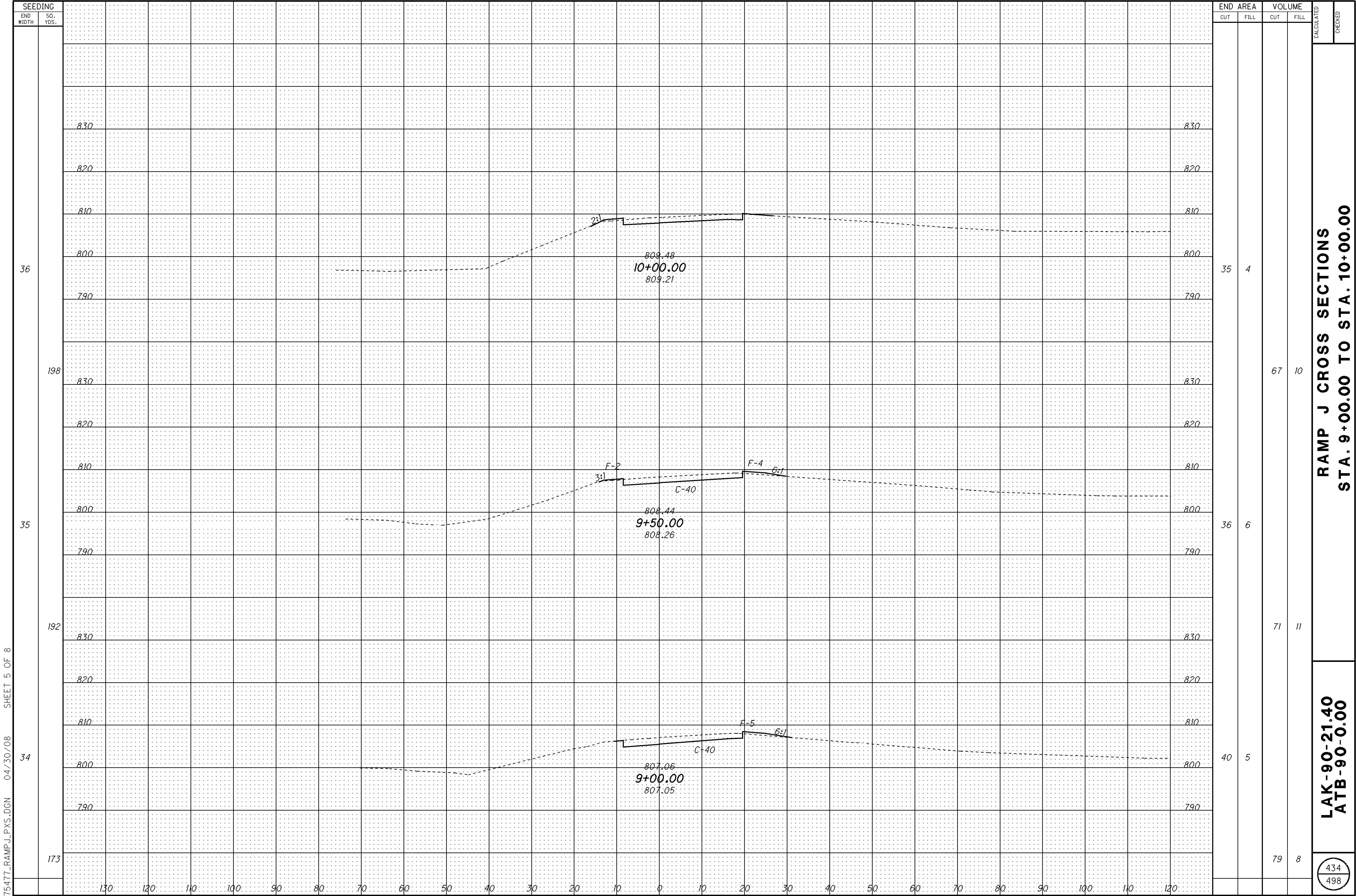
ATB-90-0.00

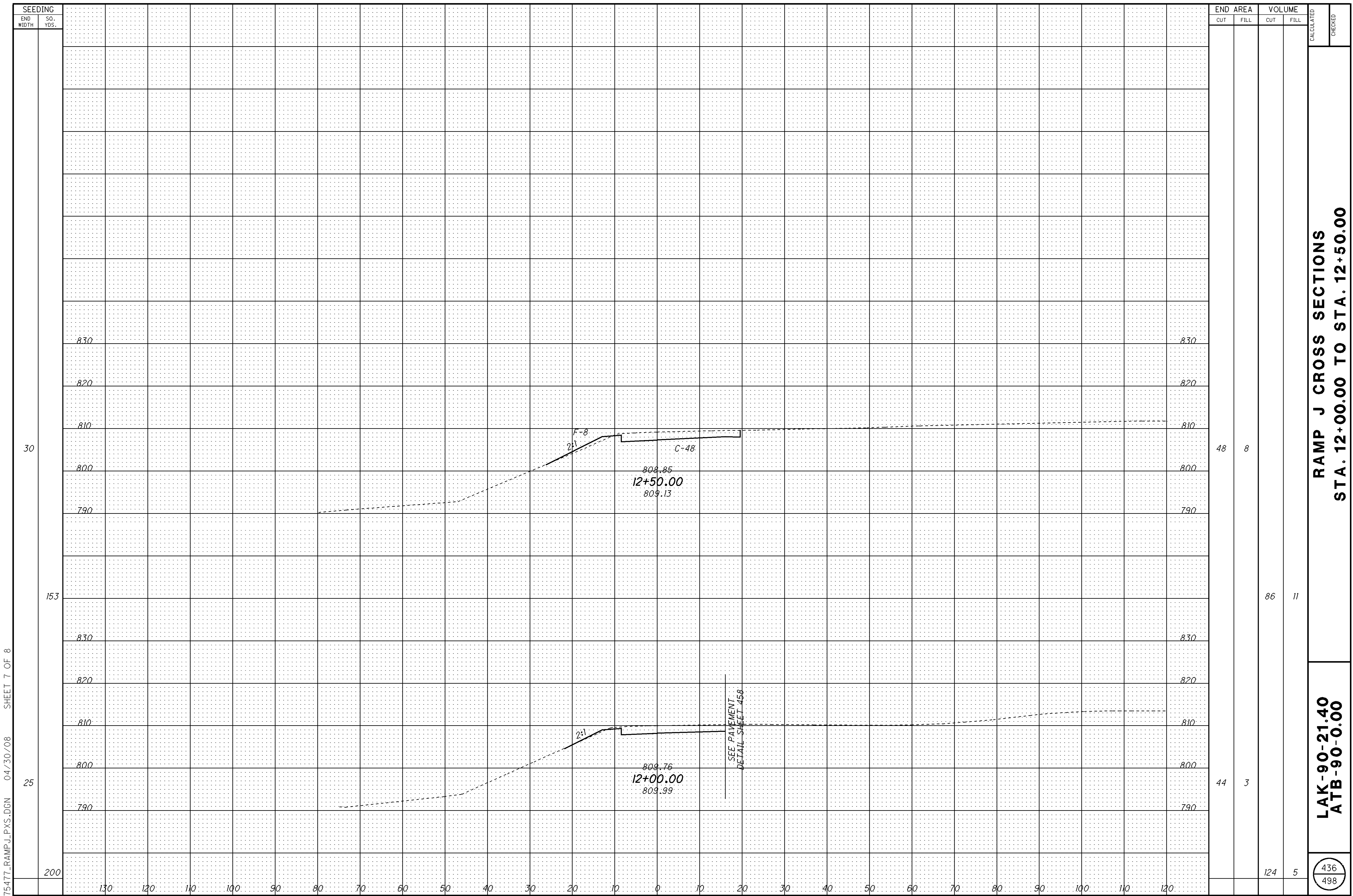


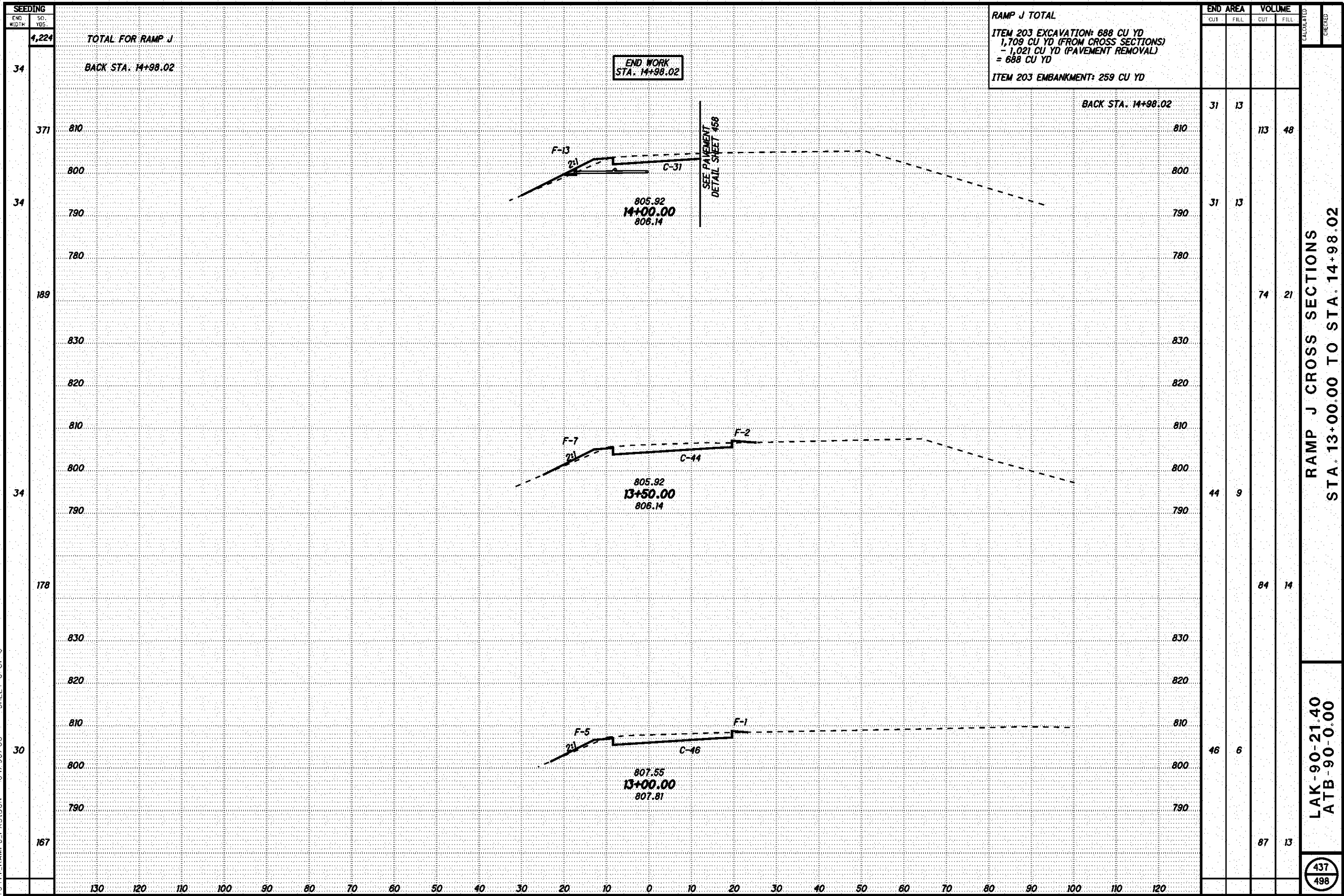


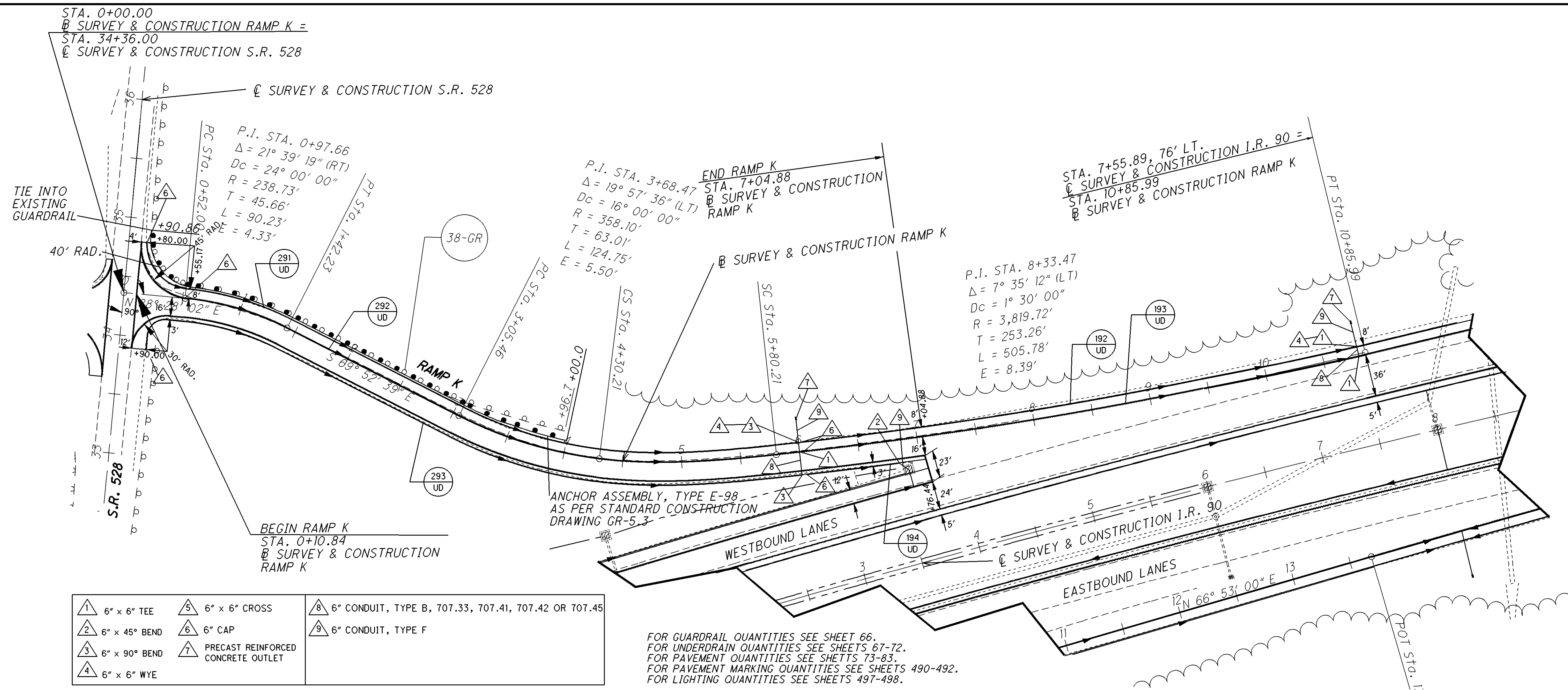


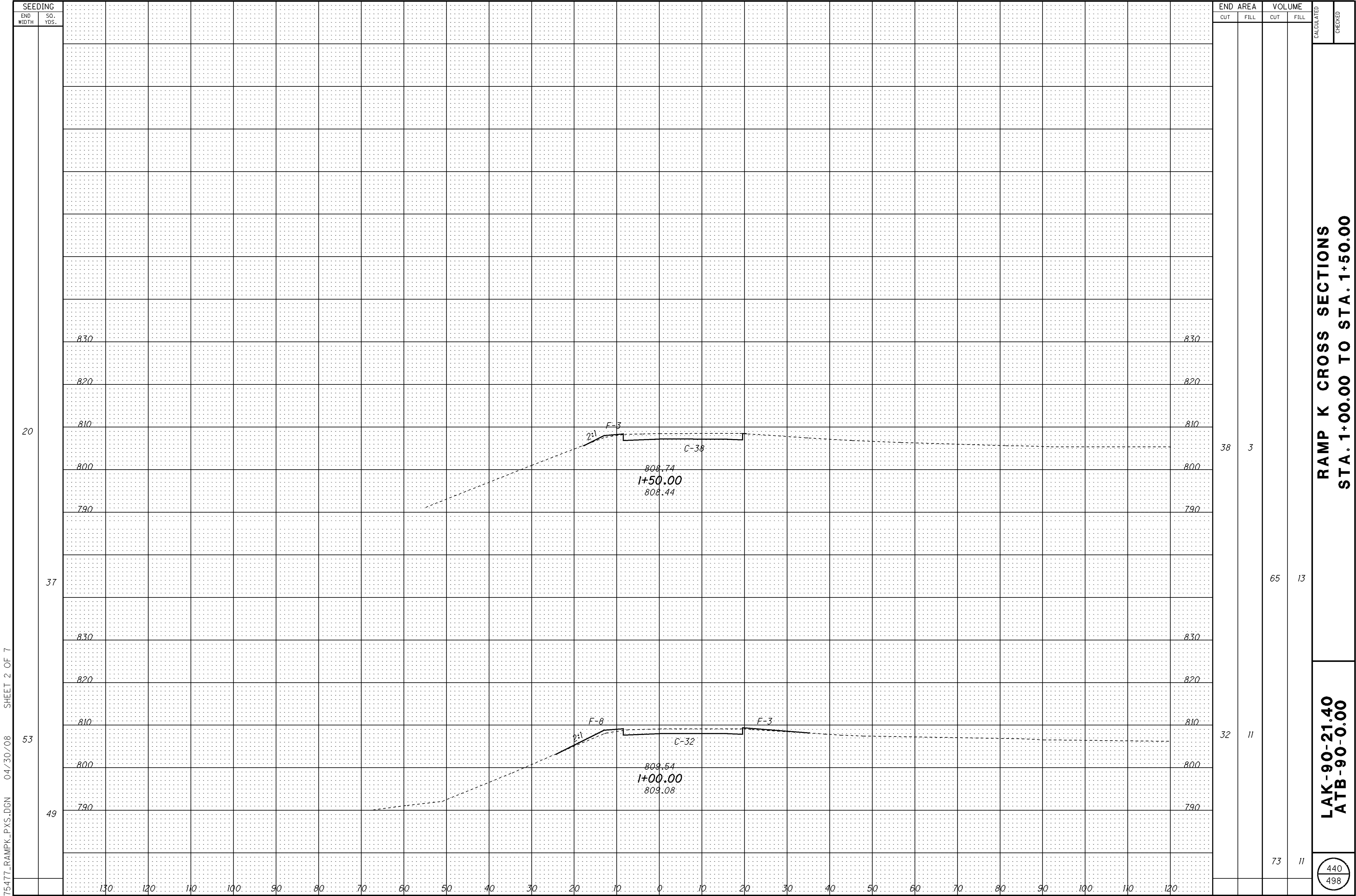


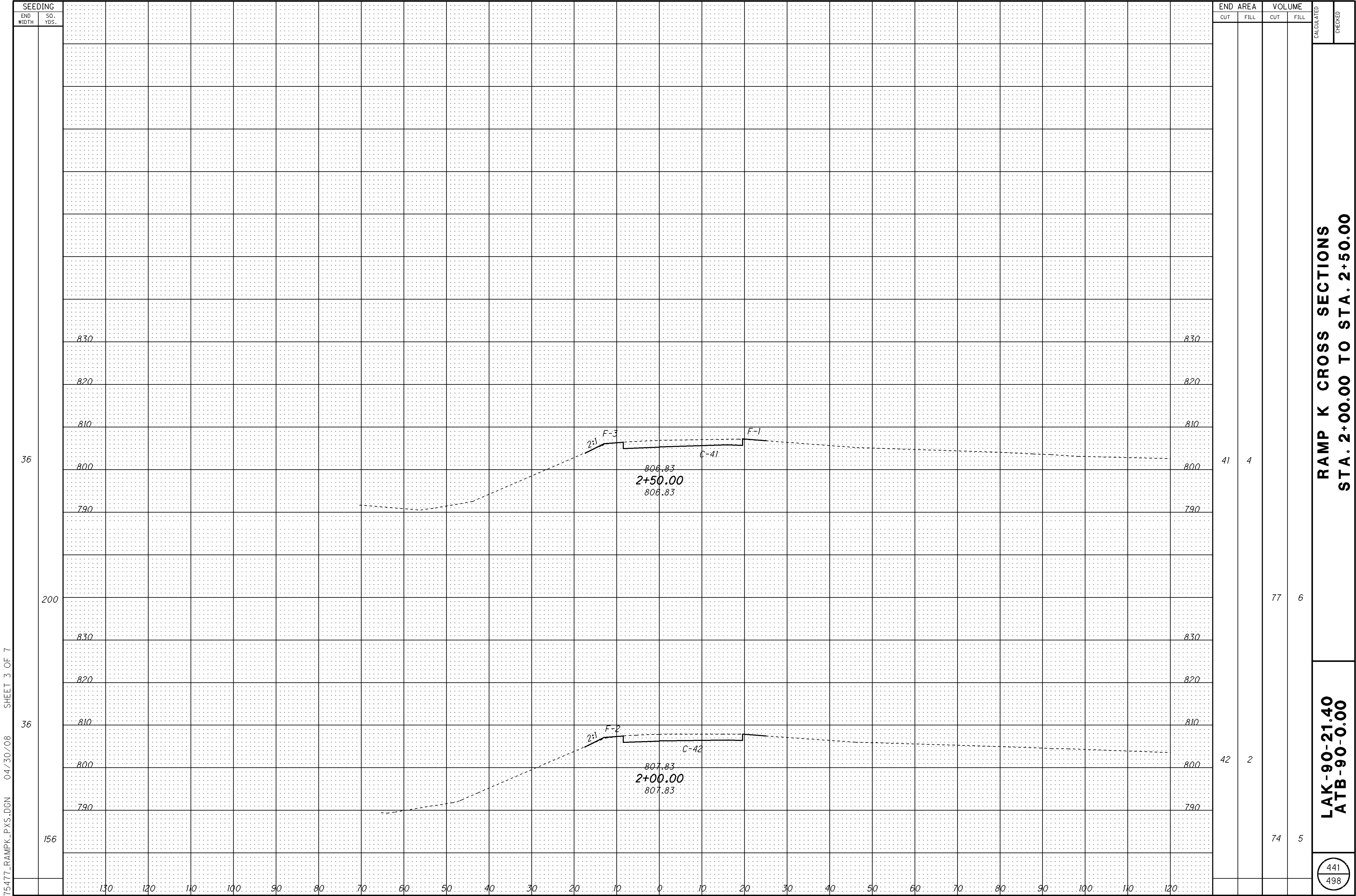






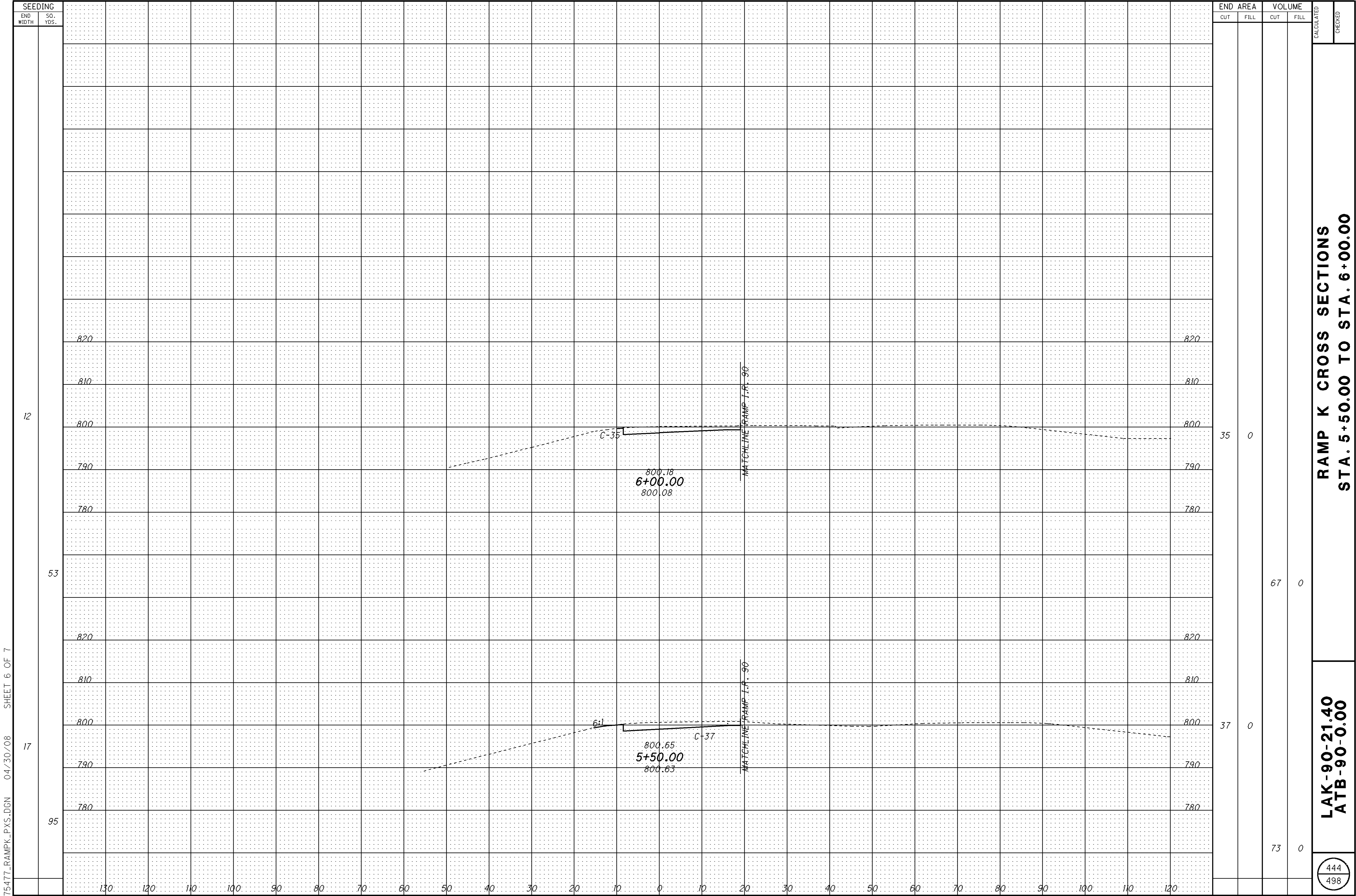


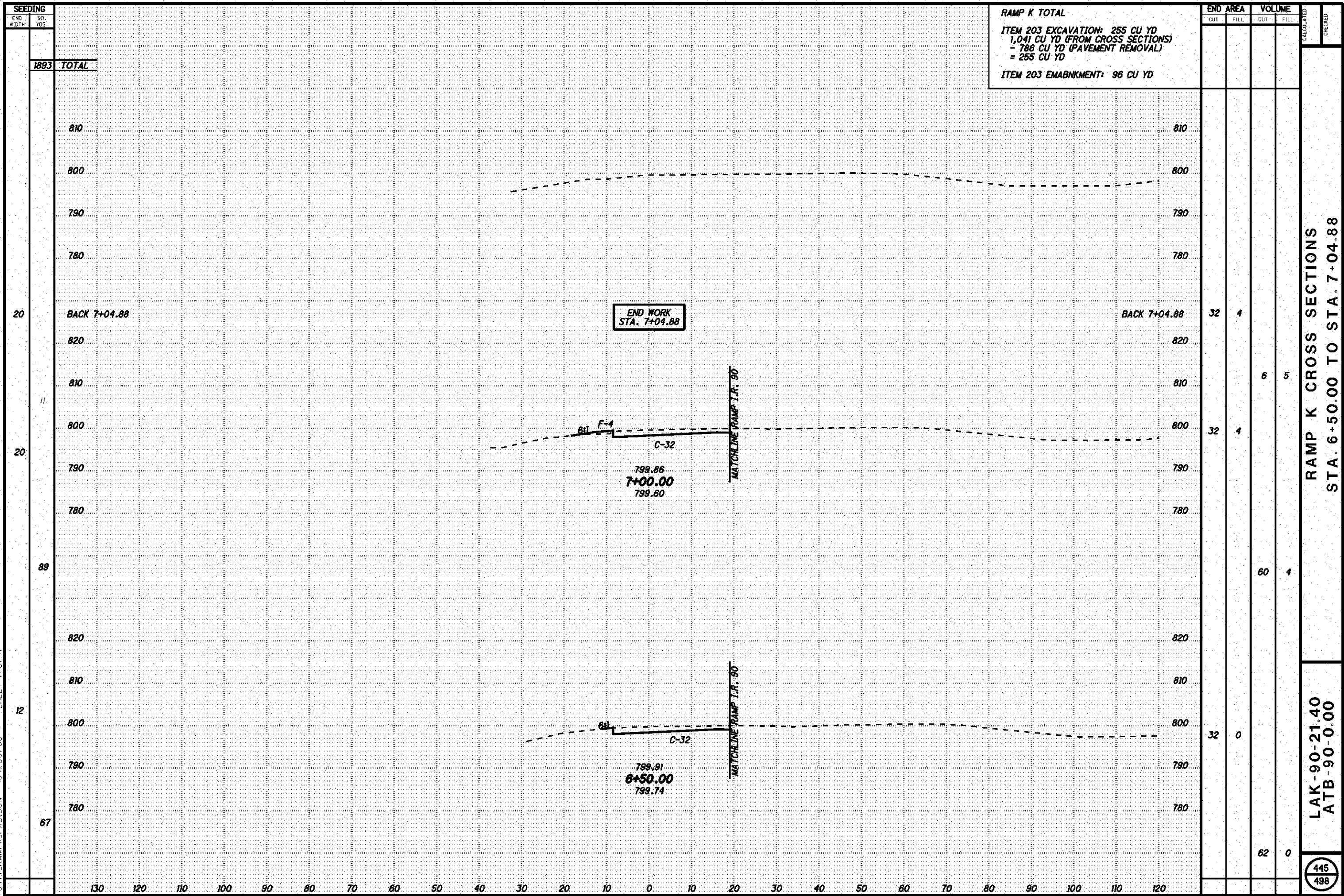




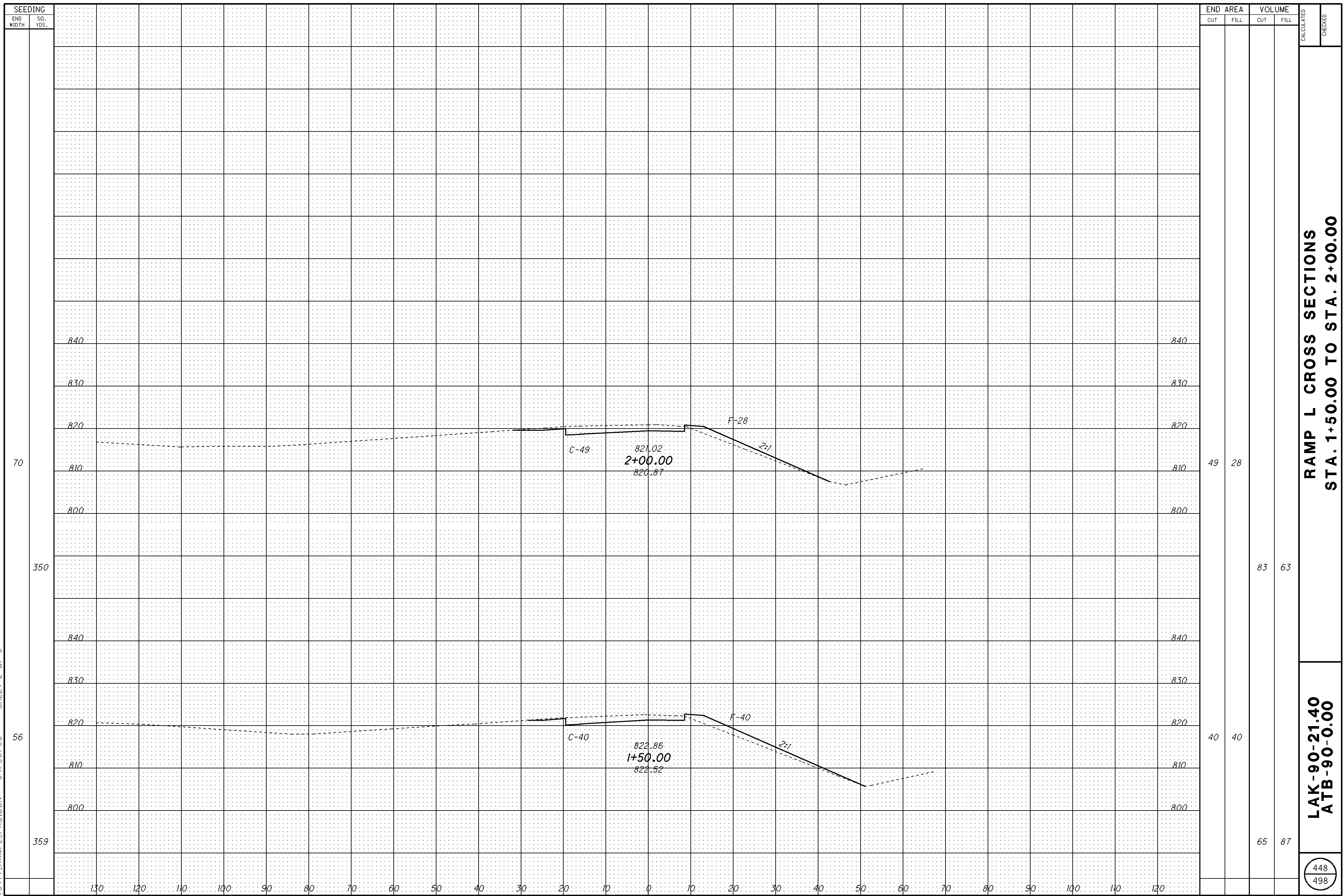
442
498

443
498

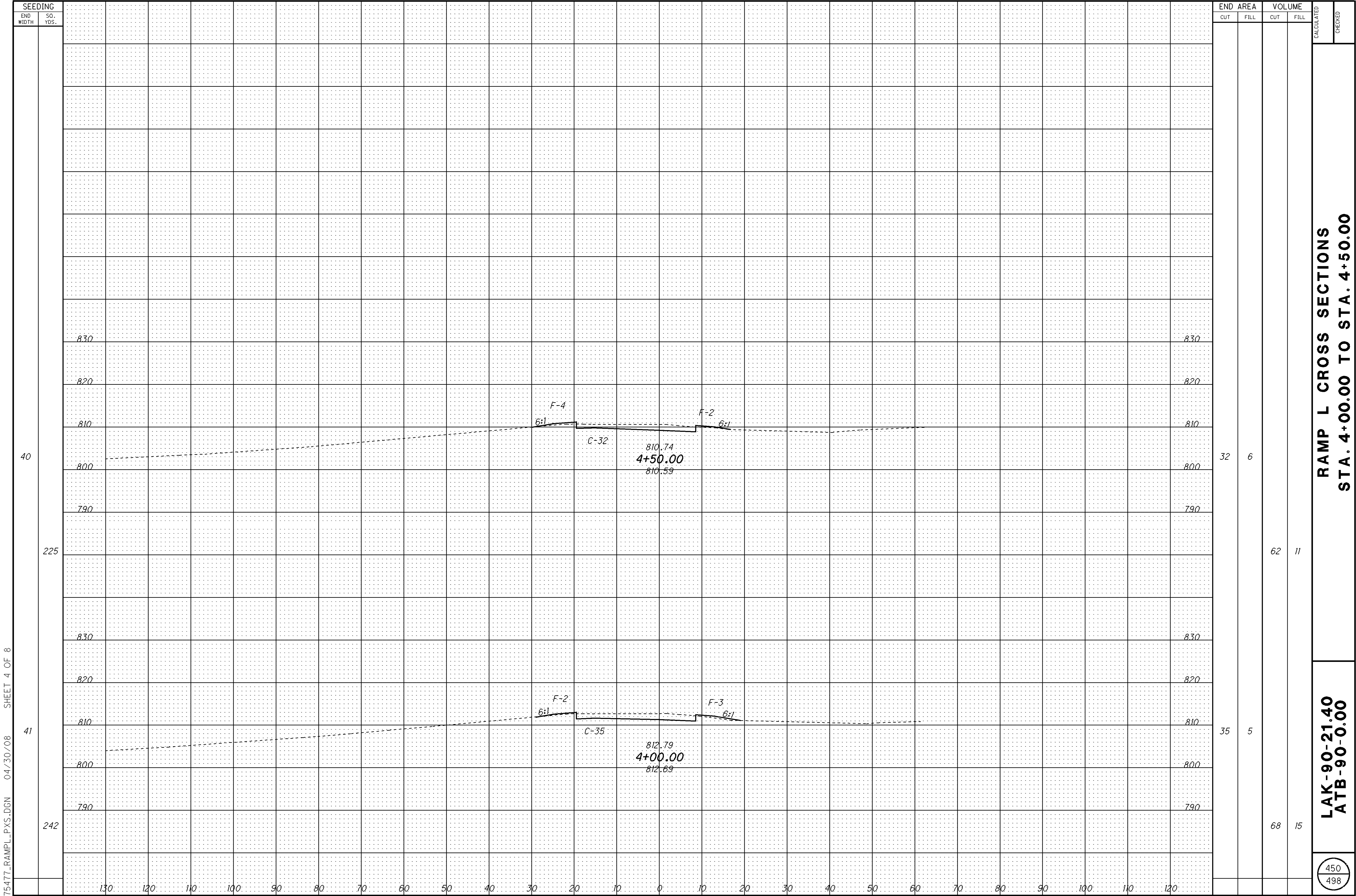


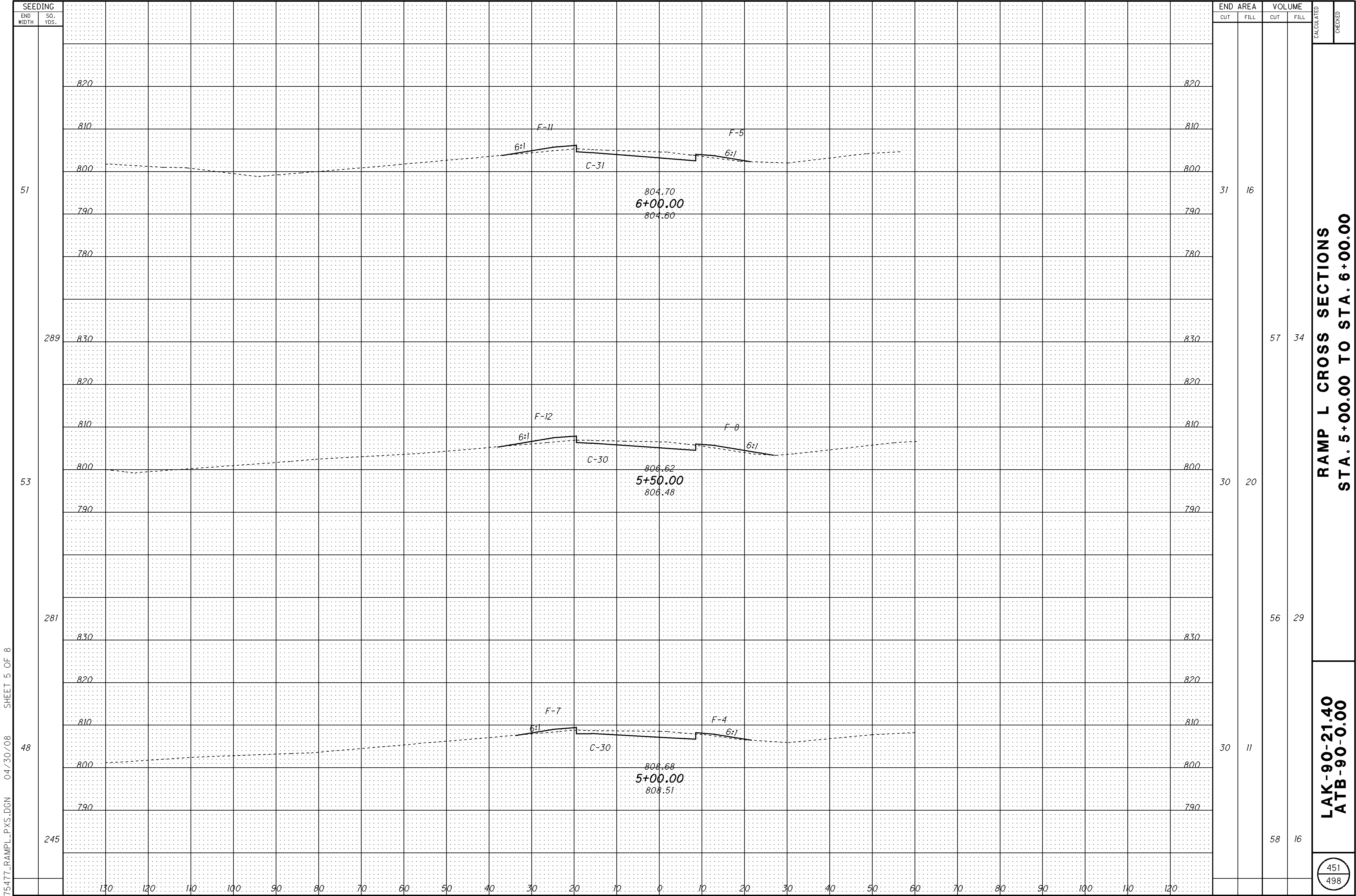


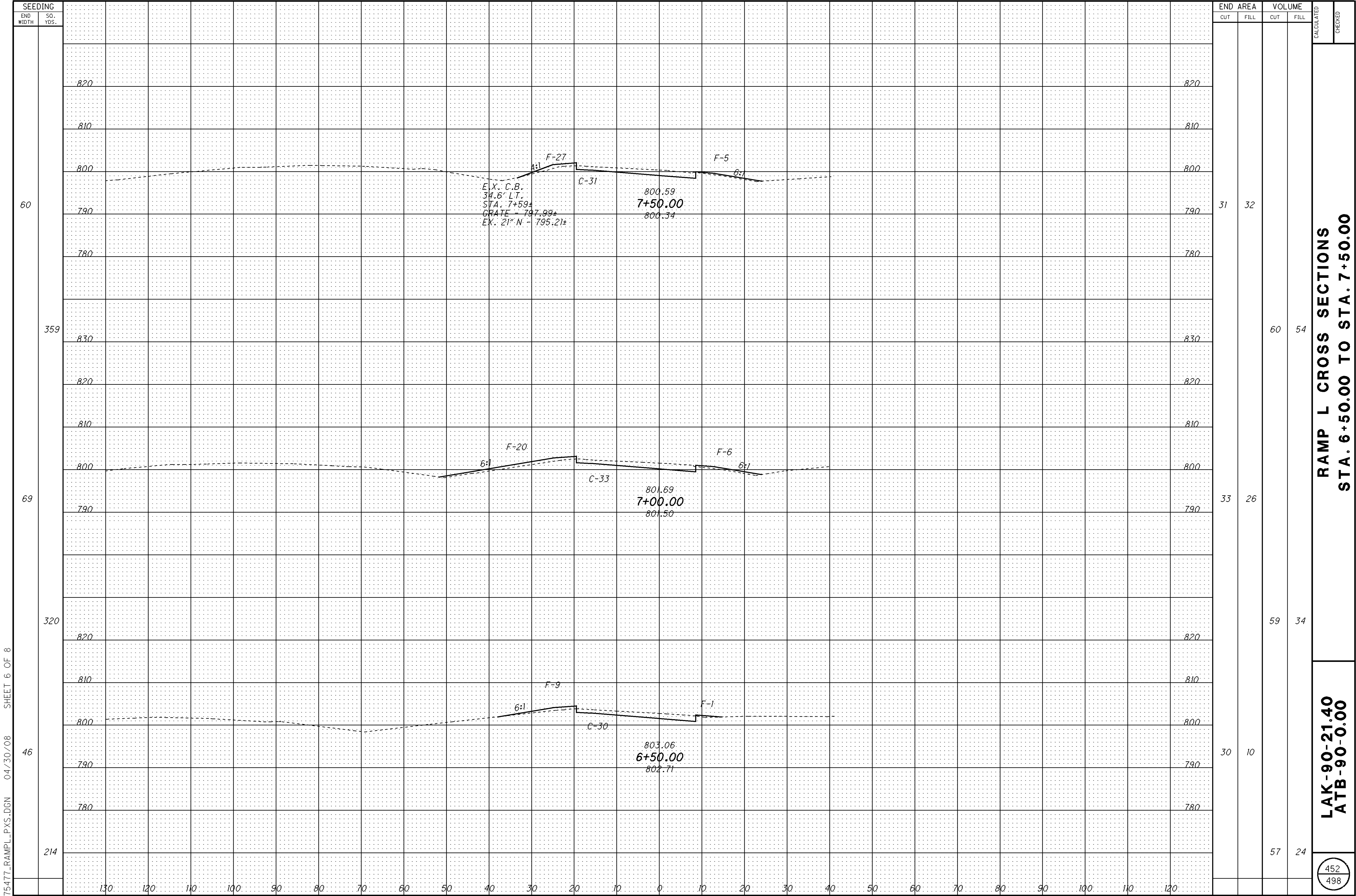
447
498

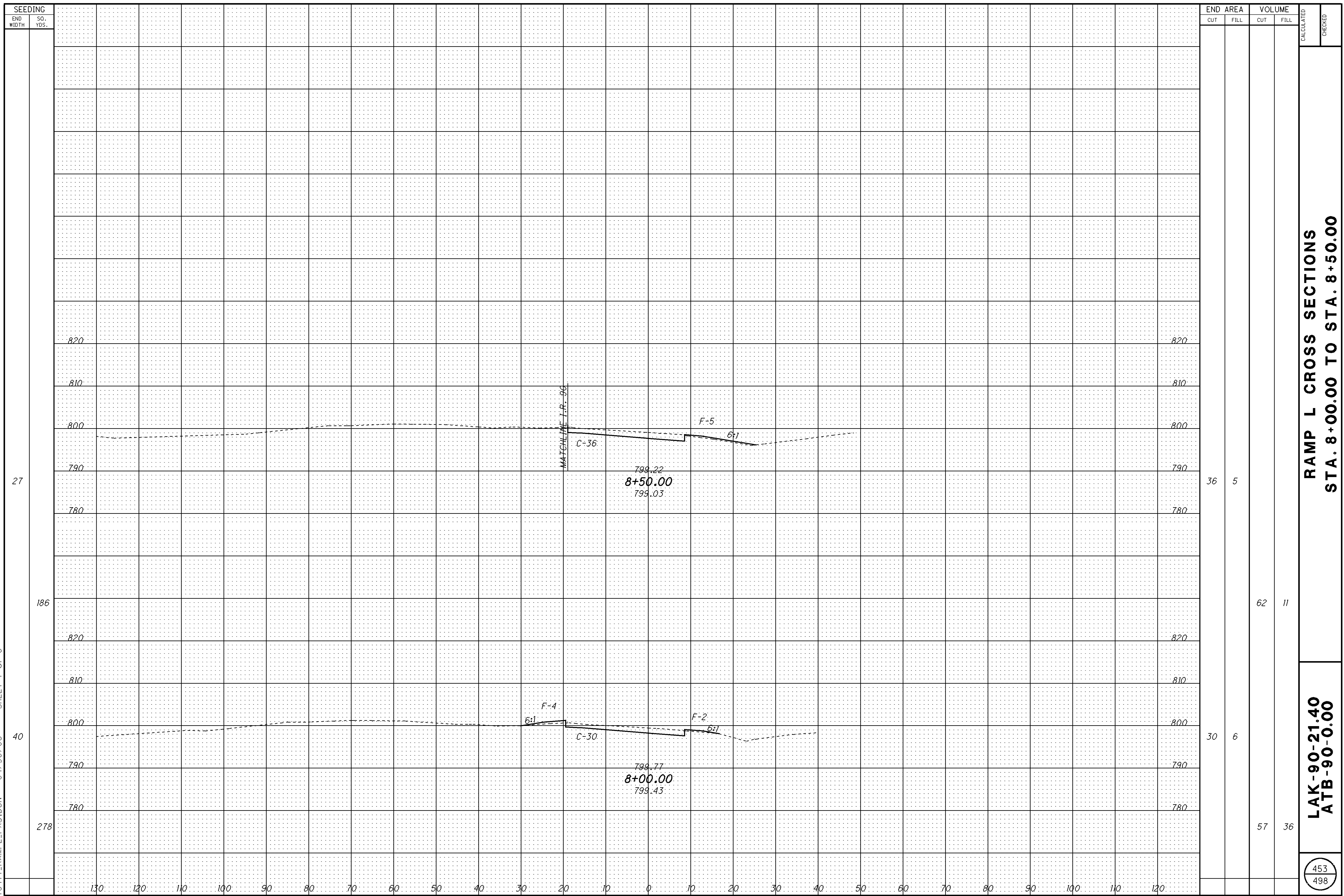


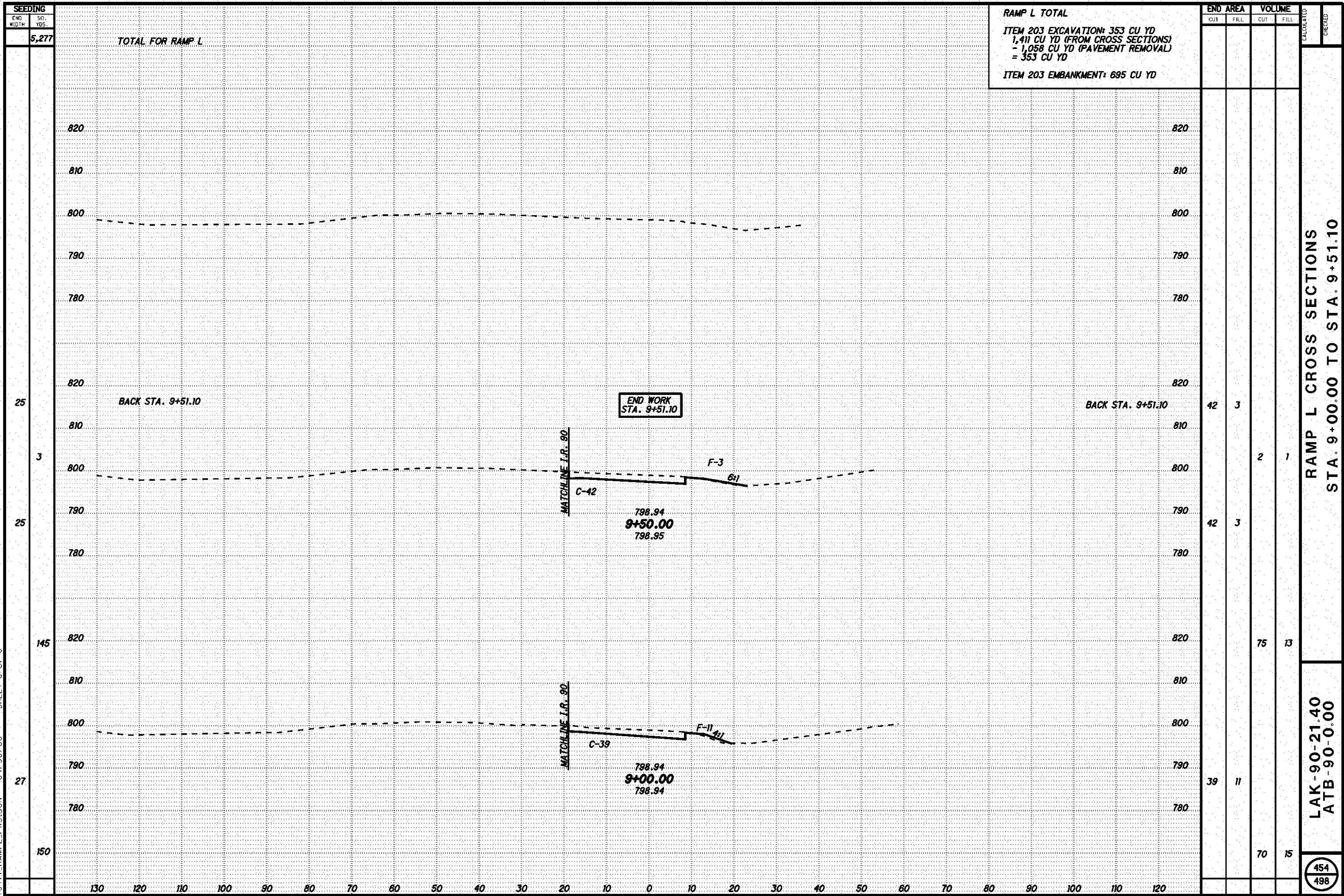


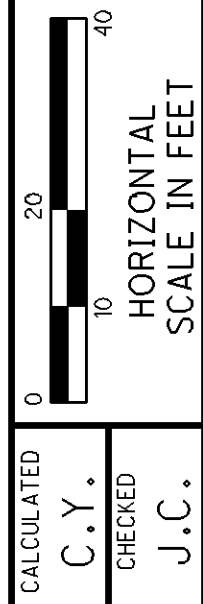
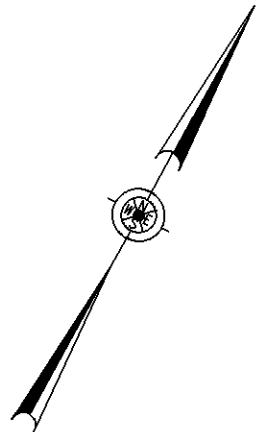
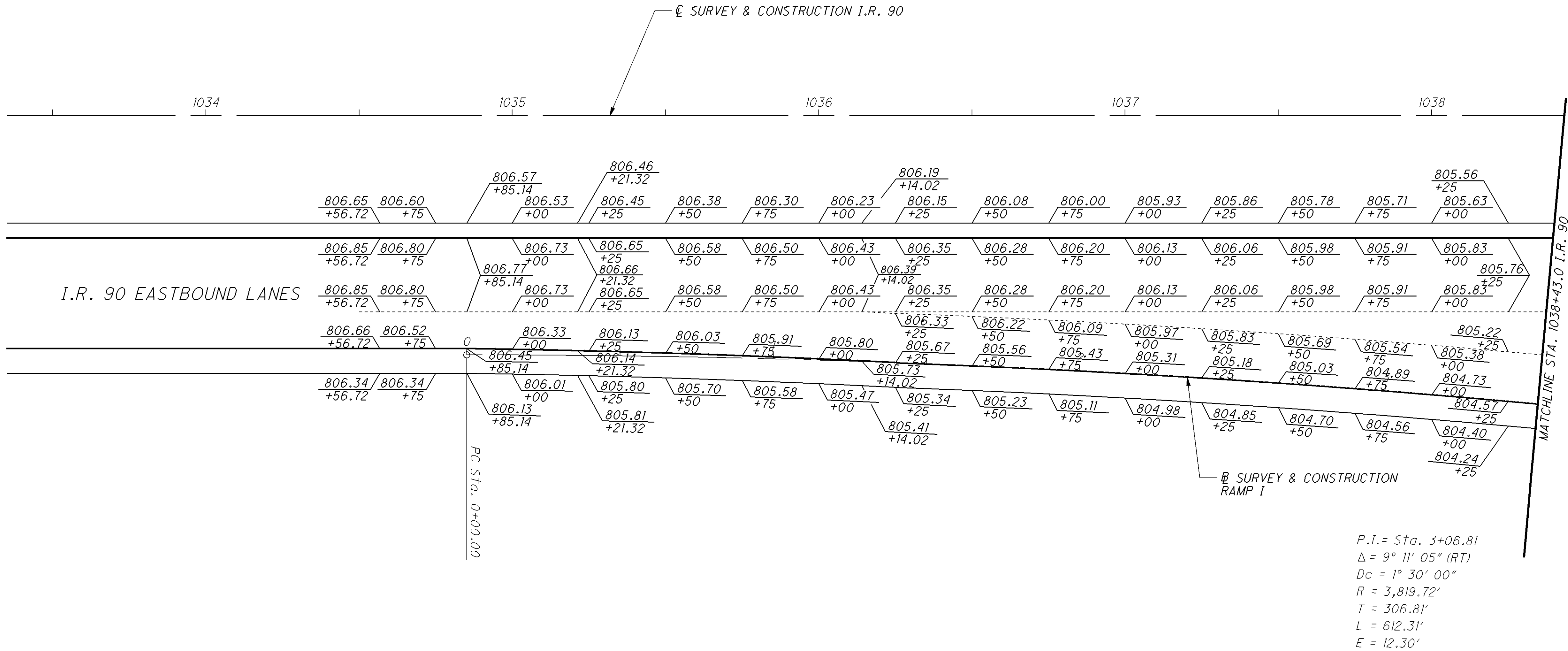






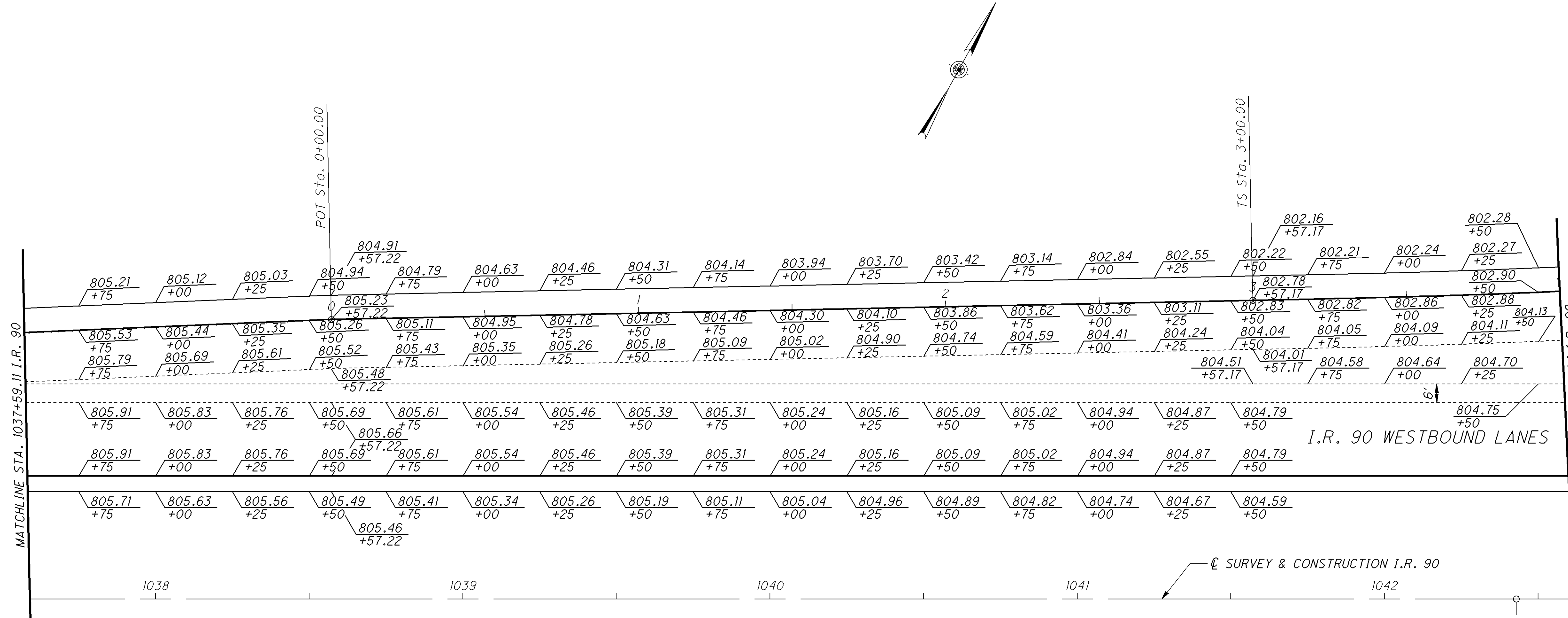
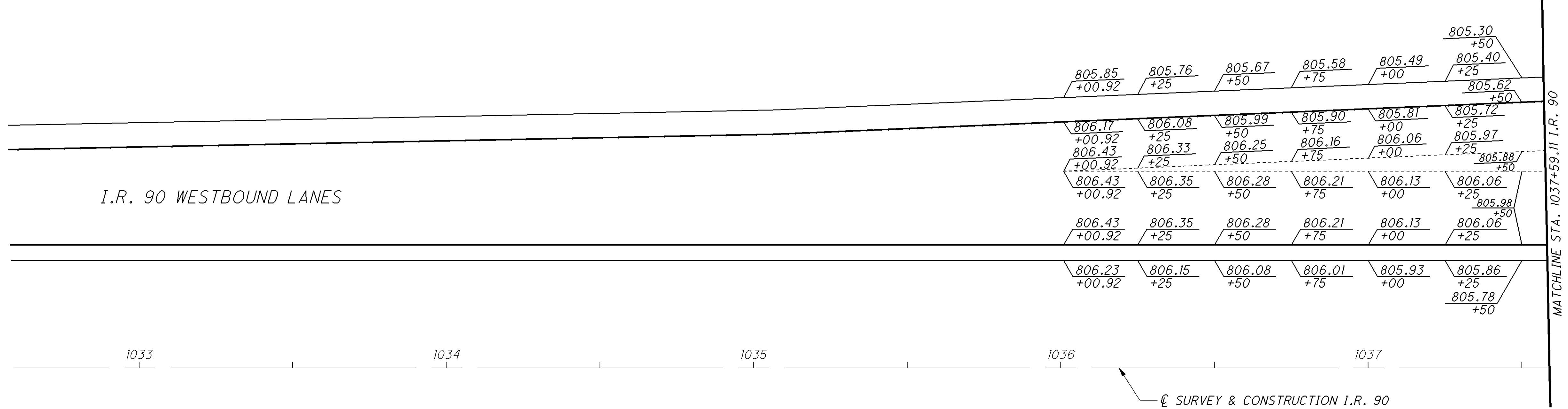


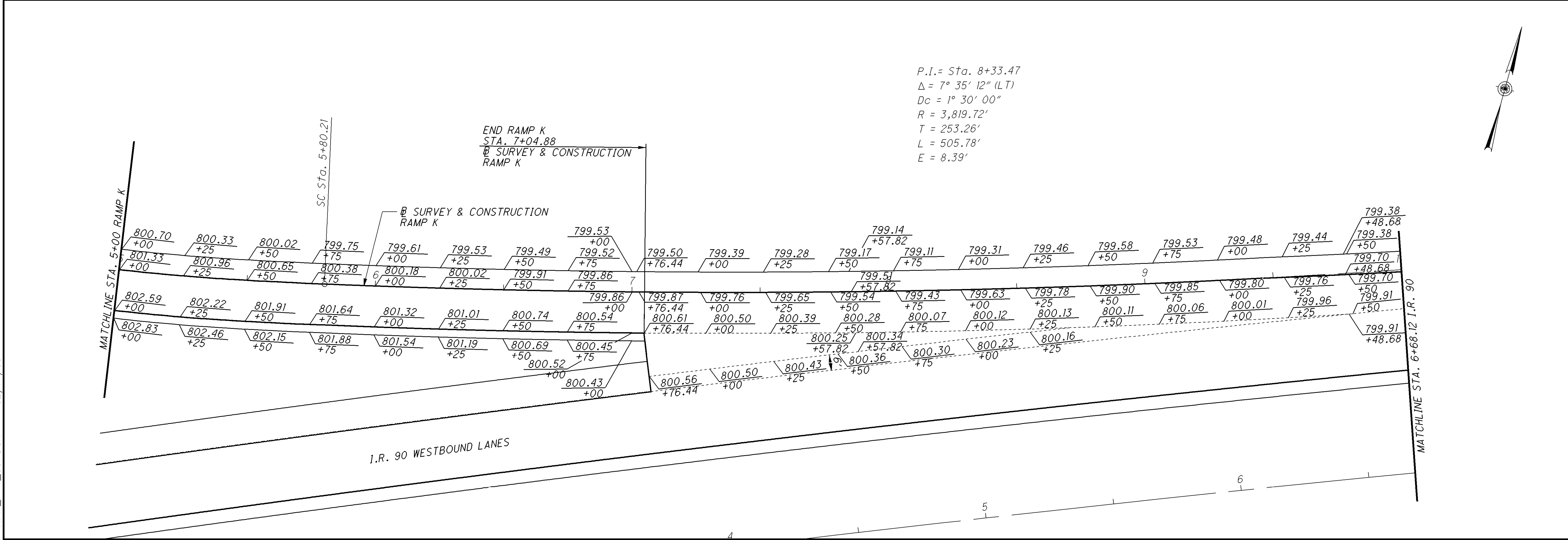
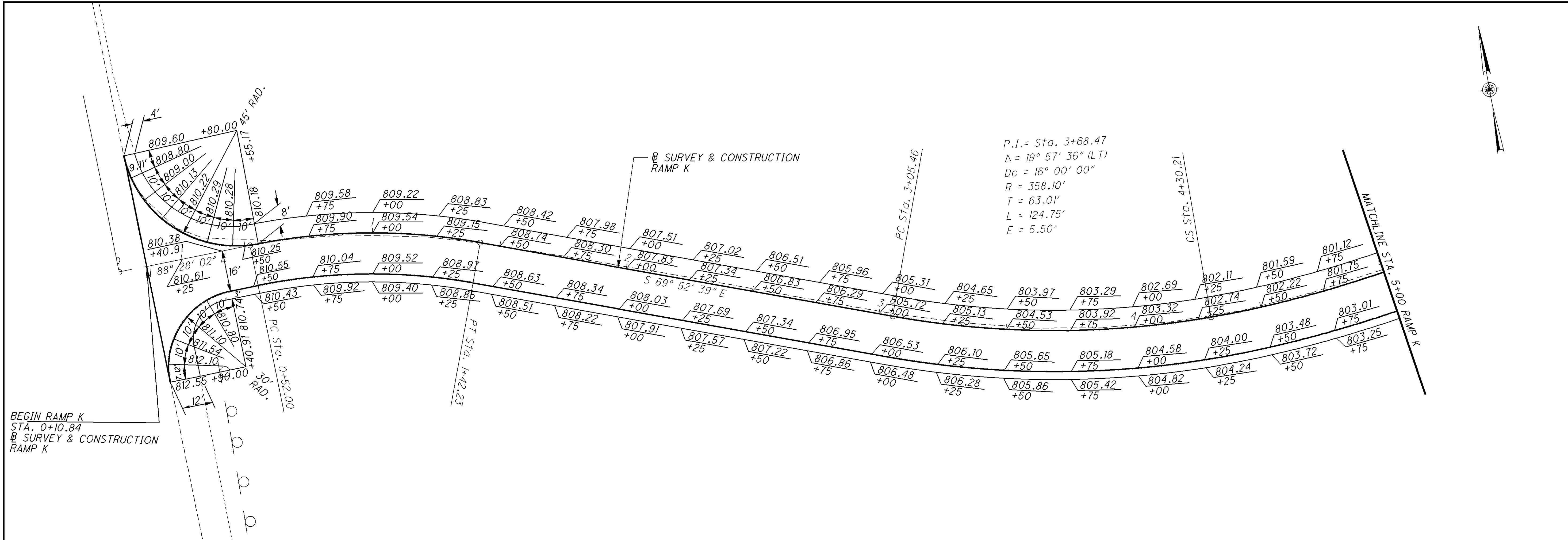


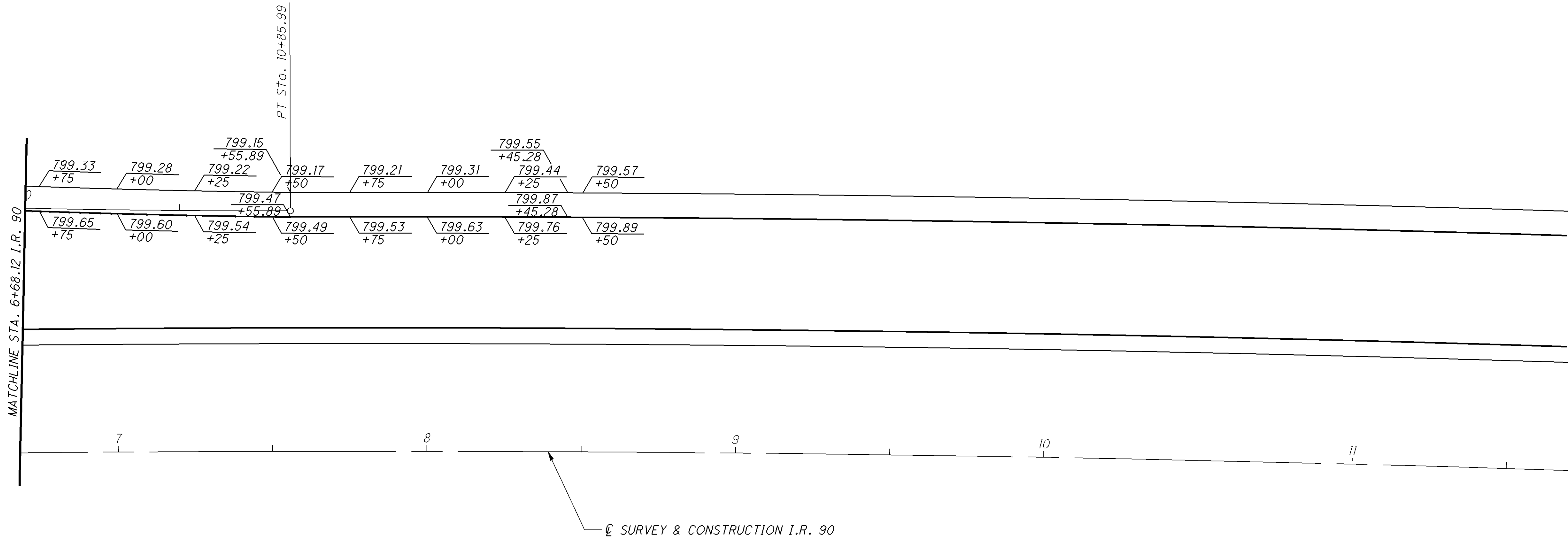


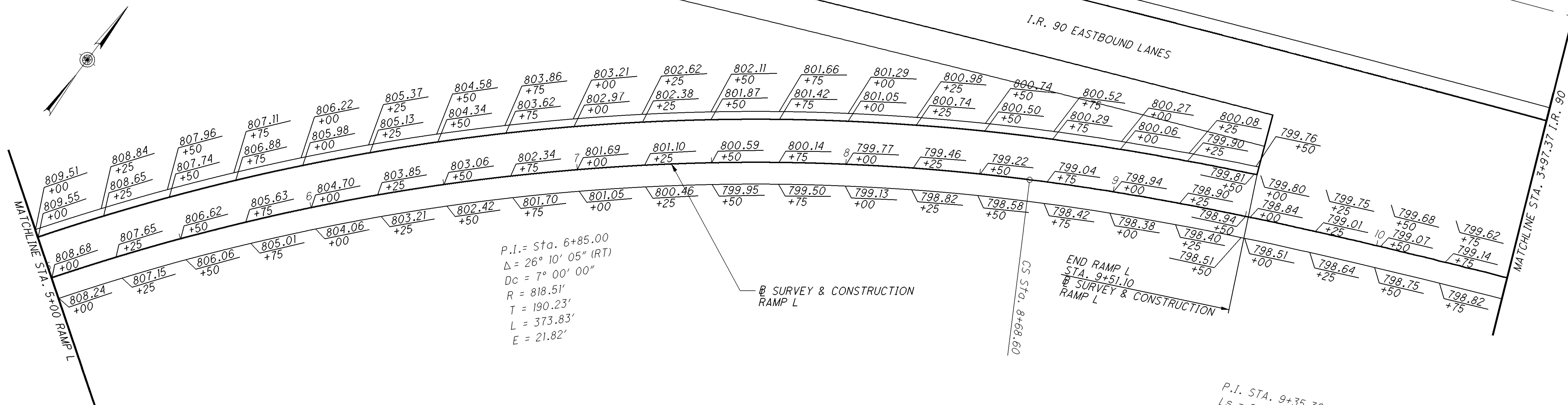
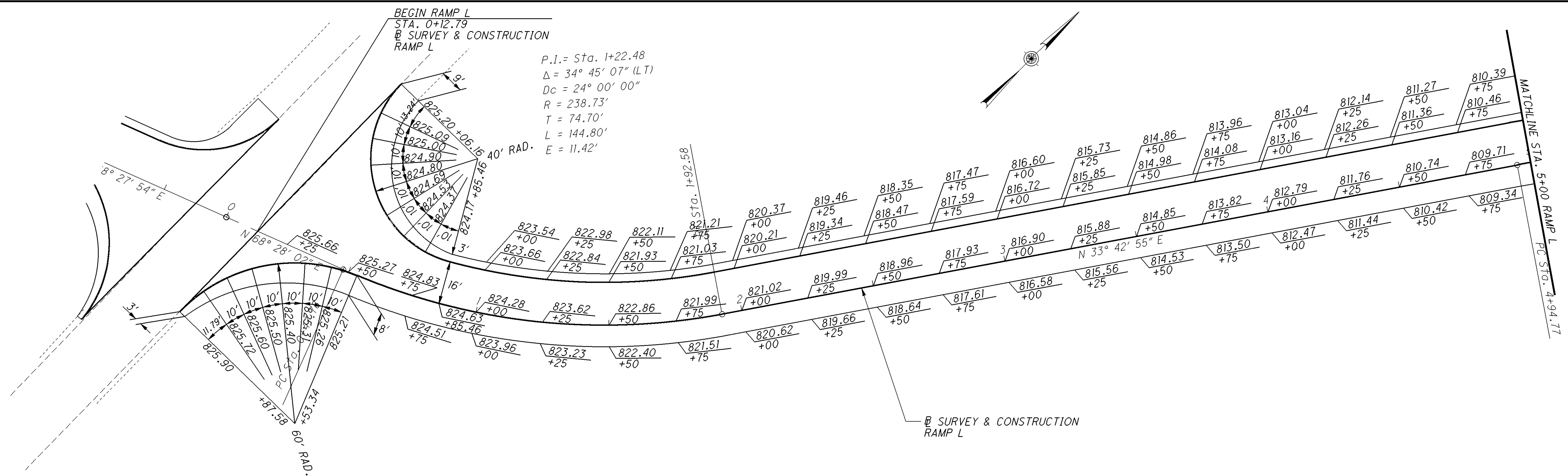
PAVEMENT DETAIL (RAMP I)

LAK-90-21.40
ATB-90-0.00



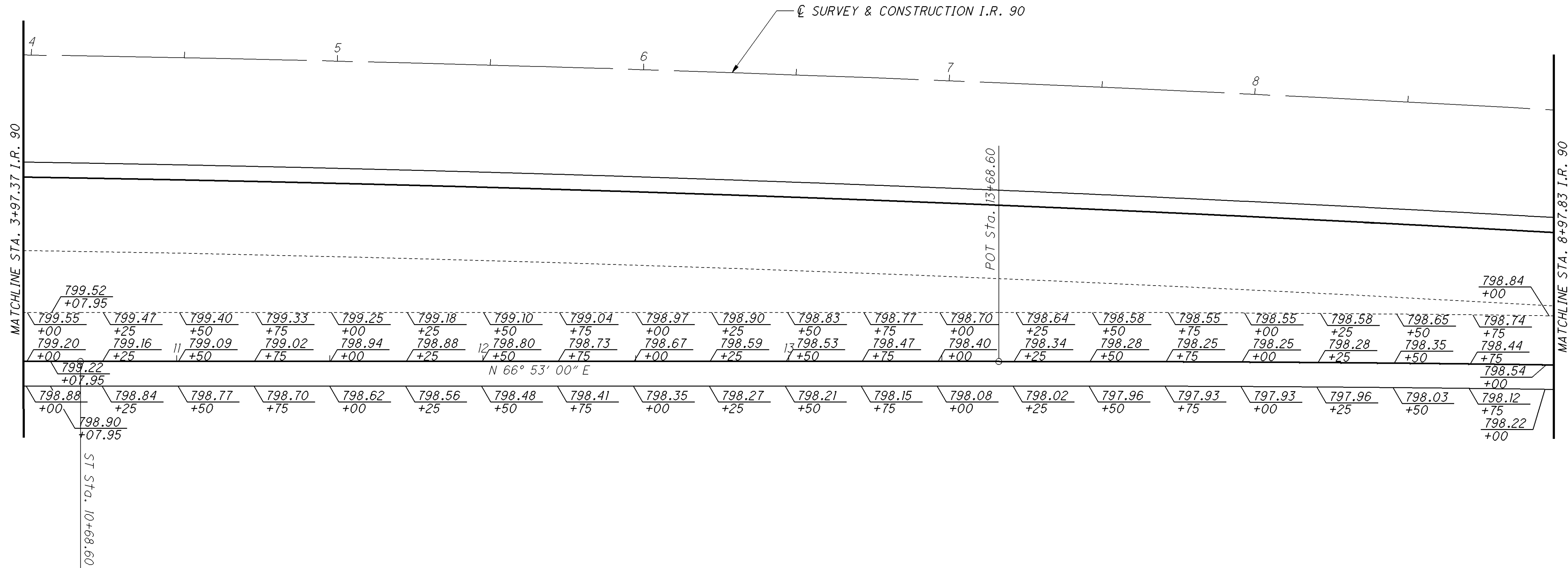
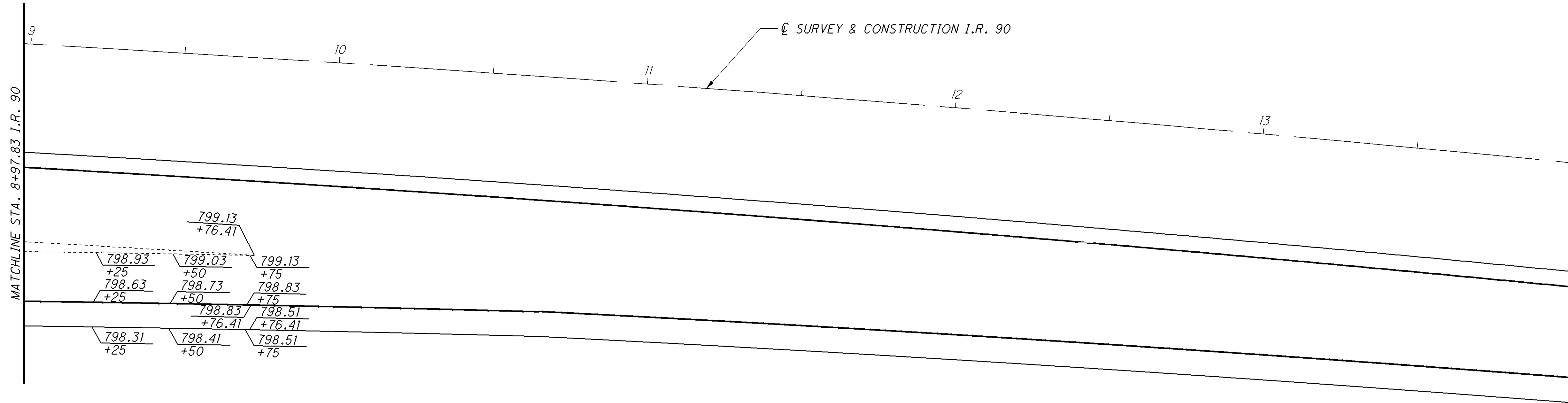


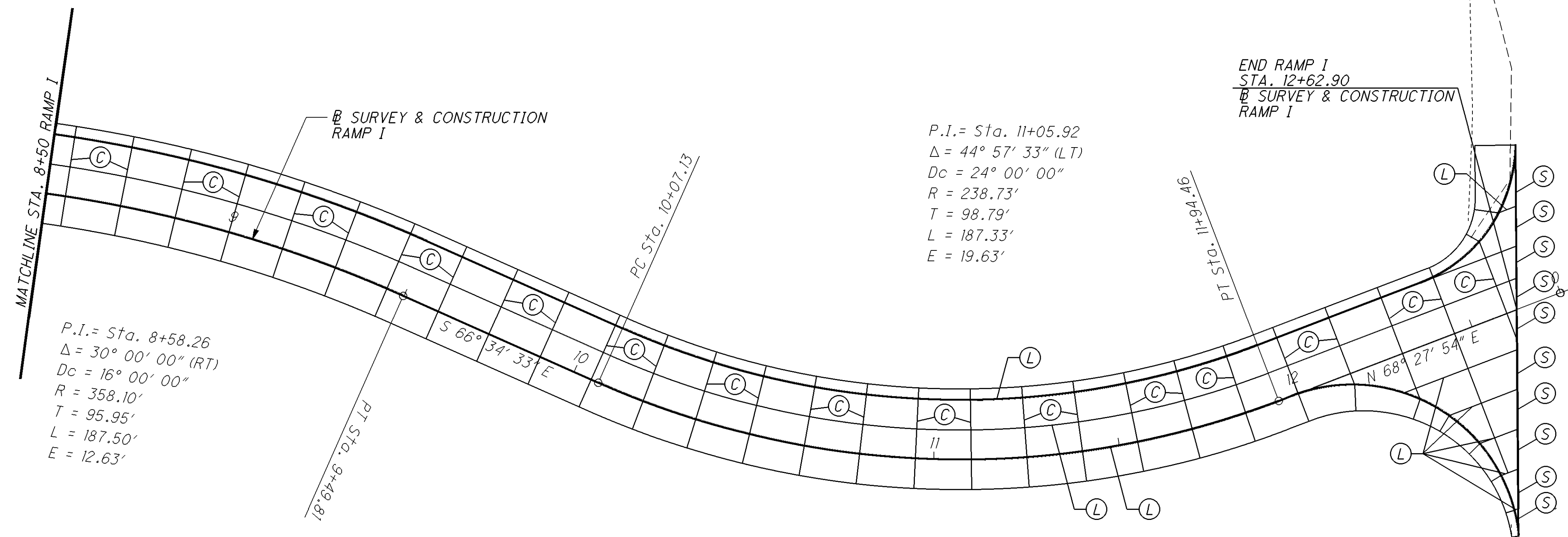
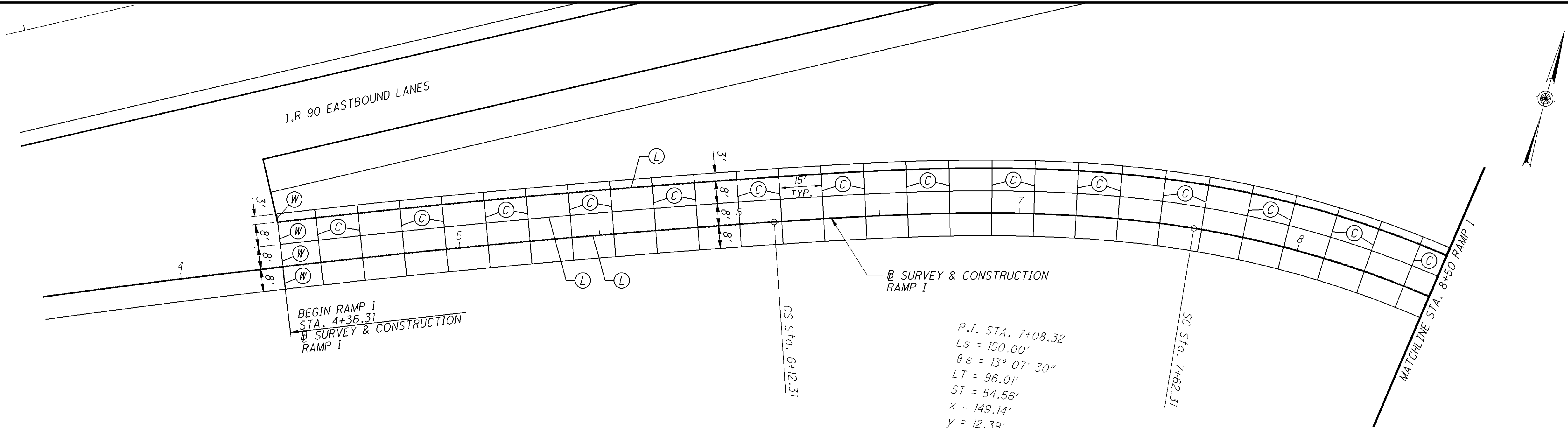




PAVEMENT DETAIL SHEET (RAMP L)

LAK-90-21.40
ATB-90-0.00



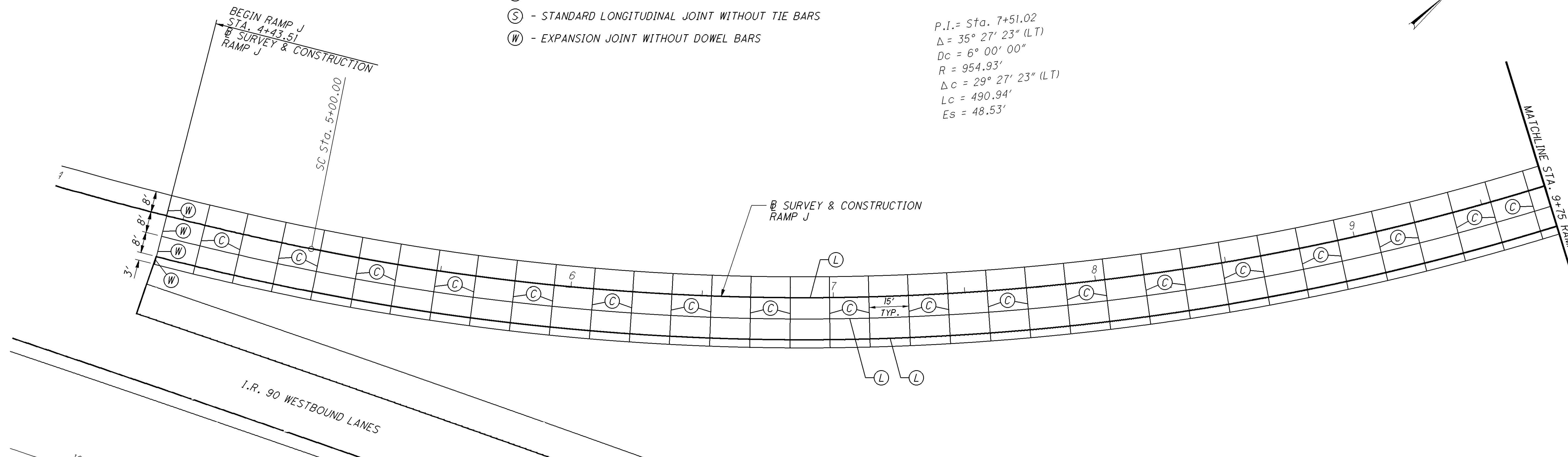


PAVEMENT JOINT DETAIL (RAMP I)

LAK-90-21.40
ATB-90-0.00

- (C) - CONTRACTION JOINT (15' MAX.)
- (E) - EXPANSION JOINT
- (L) - STANDARD LONGITUDINAL JOINT (18' MAX.)
- (S) - STANDARD LONGITUDINAL JOINT WITHOUT TIE BARS
- (W) - EXPANSION JOINT WITHOUT DOWEL BARS

$P.I. = Sta. 7+51.02$
 $\Delta = 35^\circ 27' 23'' \text{ (LT)}$
 $DC = 6^\circ 00' 00''$
 $R = 954.93'$
 $\Delta C = 29^\circ 27' 23'' \text{ (LT)}$
 $LC = 490.94'$
 $ES = 48.53'$



CALCULATED	C.Y.
CHECKED	J.C.

PAVEMENT JOINT DETAIL SHEET (RAMP J)

LAK-90-21.40
ATB-90-0.00

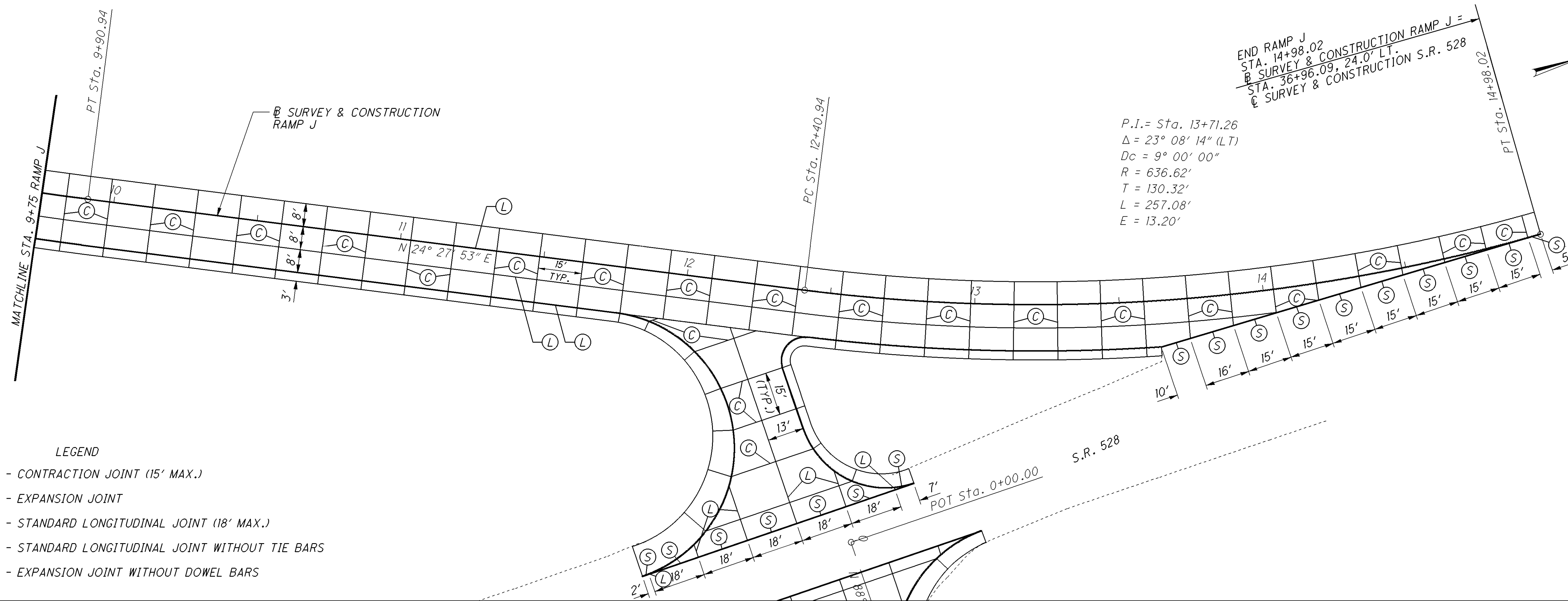
$$\frac{464}{498}$$

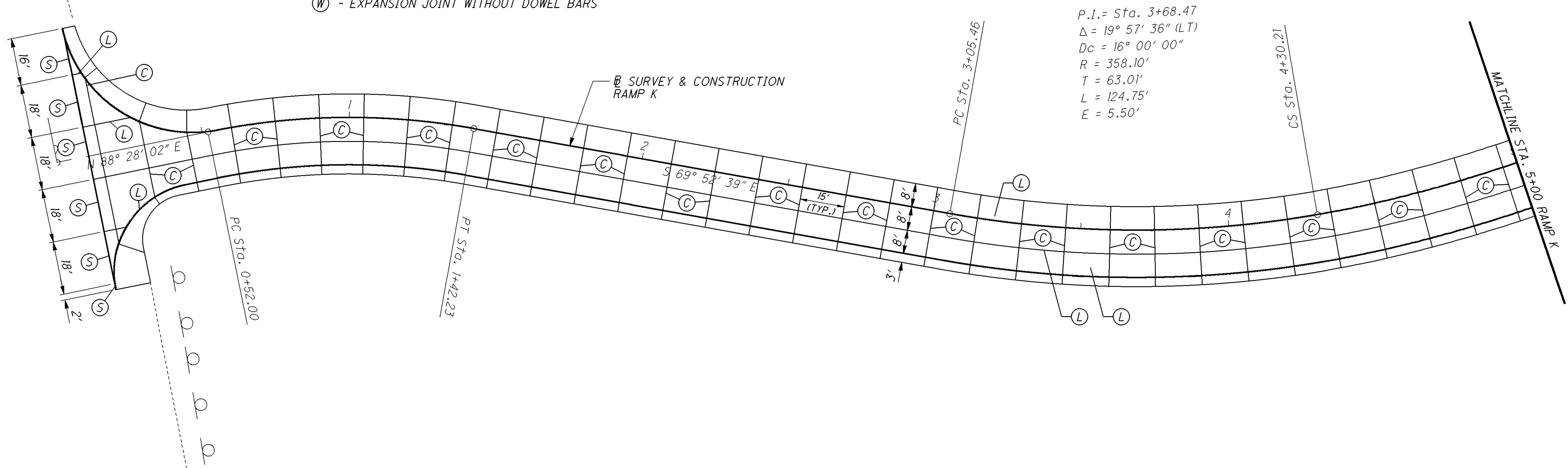
RAMPJ_JNT_001.DGN 02/17/09

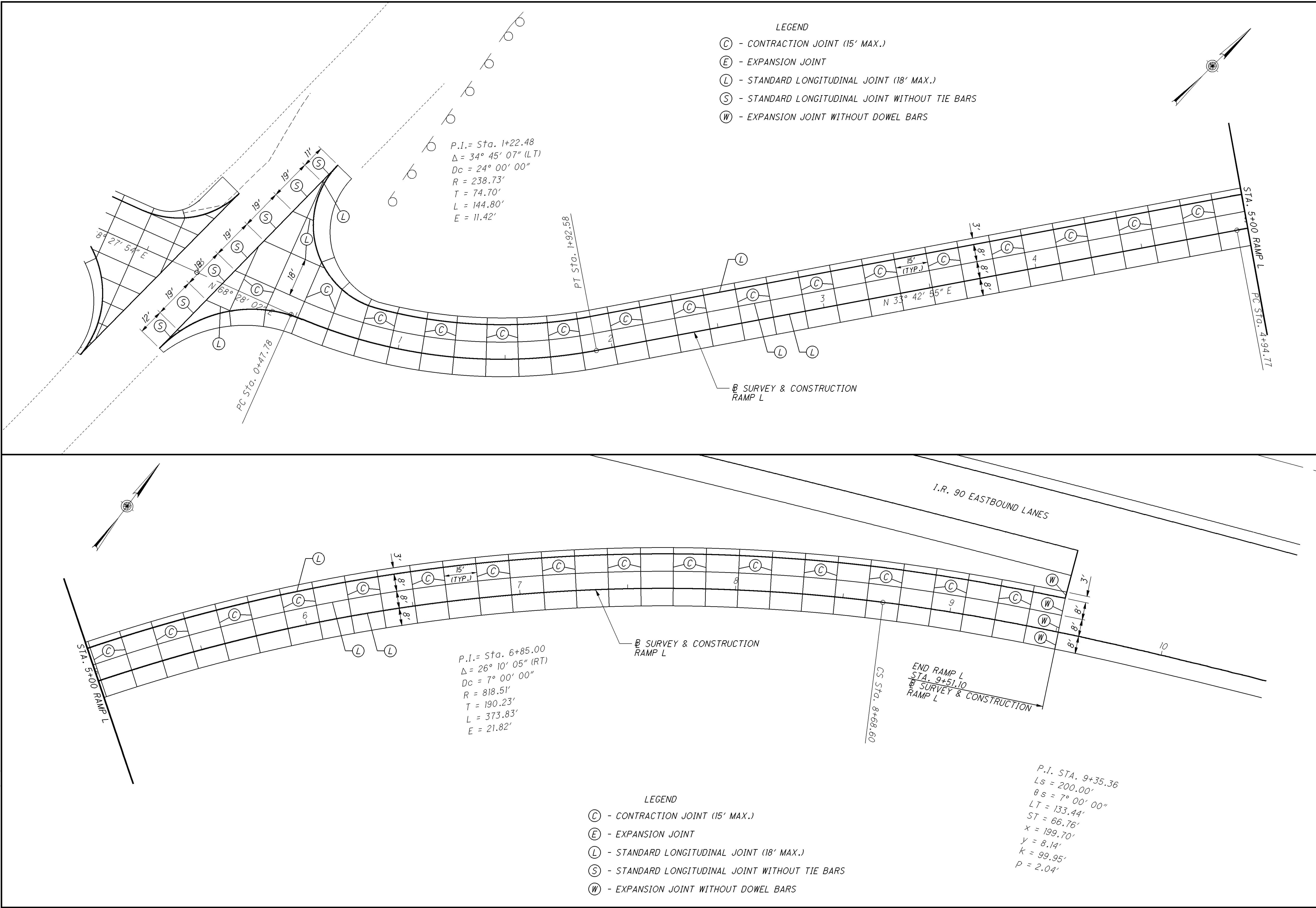
- (C) - CONTRACTION JOINT (15' MAX.)
- (E) - EXPANSION JOINT
- (L) - STANDARD LONGITUDINAL JOINT (18' MAX.)
- (S) - STANDARD LONGITUDINAL JOINT WITHOUT TIE BARS
- (W) - EXPANSION JOINT WITHOUT DOWEL BARS

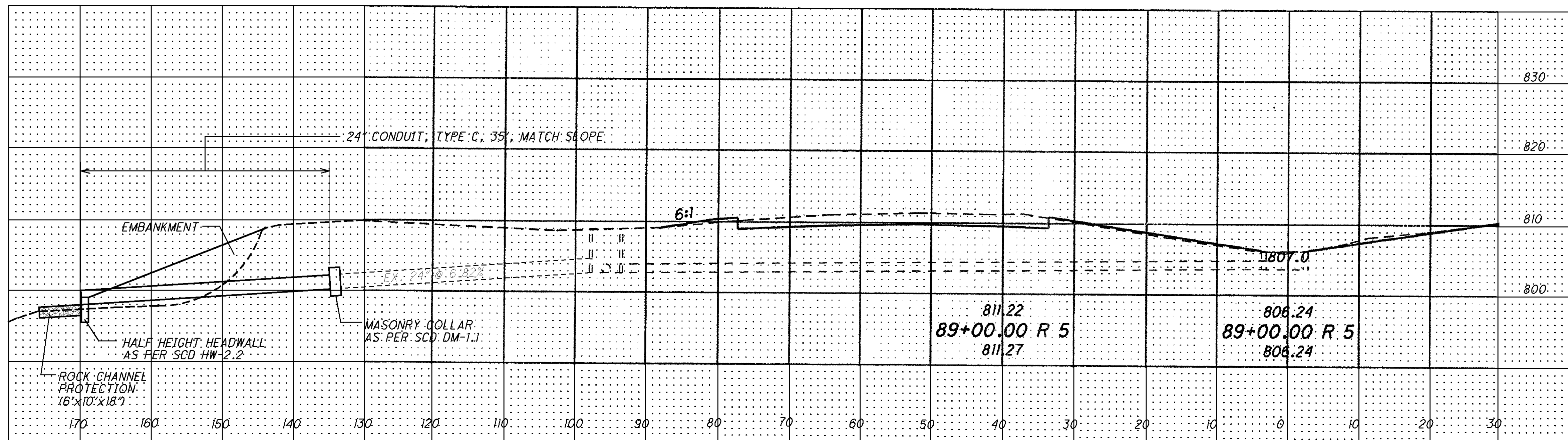
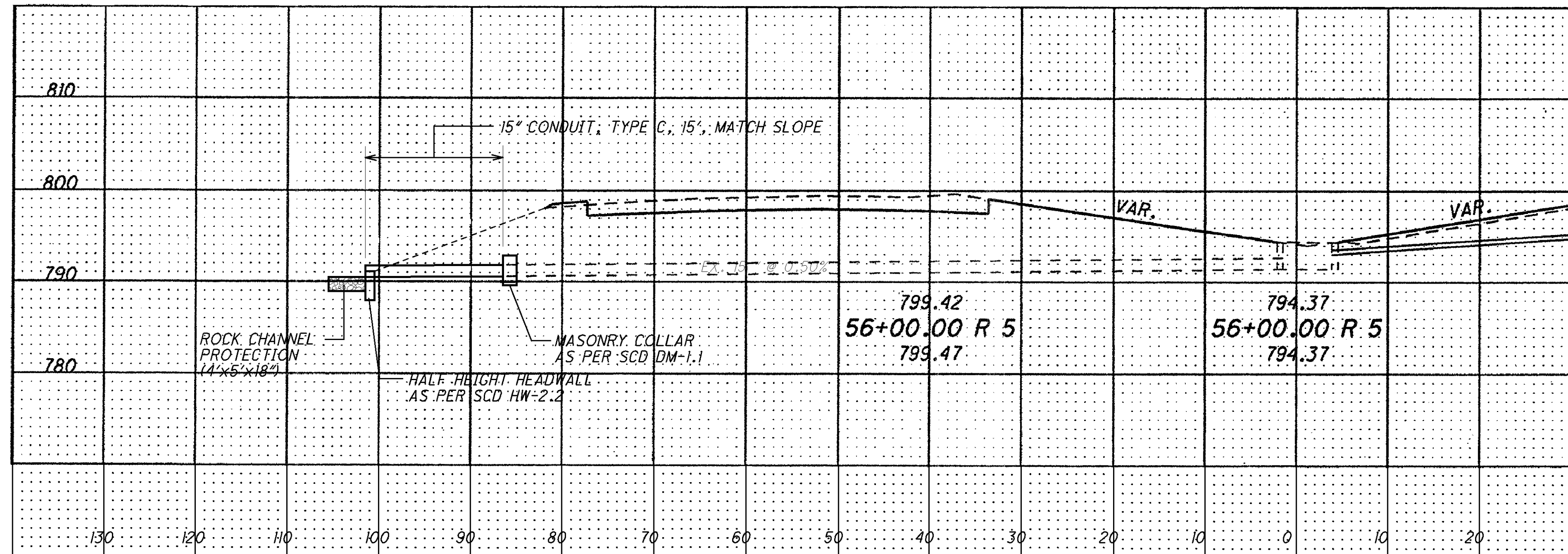
$P.I. = Sta. 13+71.26$
 $\Delta = 23^{\circ} 08' 14''$ (LT)
 $Dc = 9^{\circ} 00' 00''$
 $R = 636.62'$
 $T = 130.32'$
 $L = 257.08'$
 $E = 13.20'$

END RAMP J
STA. 14+98.02
B SURVEY & CONSTRUCTION RAMP
STA. 36+96.09, 24.0' LT.
C SURVEY & CONSTRUCTION S.R. 528









LOCATION	ESTIMATED QUANTITIES						
	202	202	601	602	603	603	604
	HEADWALL REMOVED	EACH	1				
	PIPE REMOVED, 24" AND UNDER	FOOT	30				
	ROCK CHANNEL PROTECTION TYPE C, WITH FILTER	CY	1.1	0.25	15	15	
	CONCRETE MASONRY	CY					
TOTALS CARRIED TO GENERAL SUMMARY :	1	30	2	0.25	15	15	1

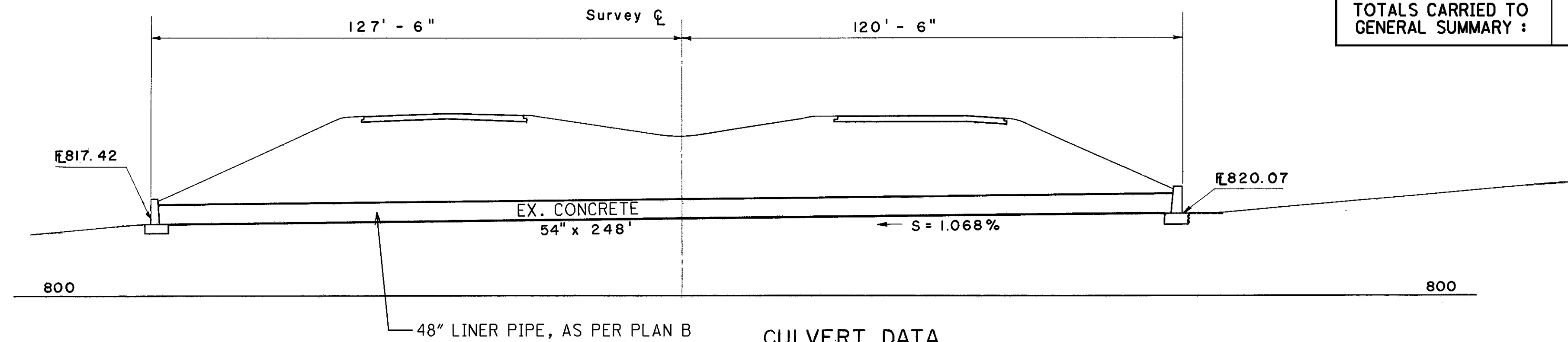
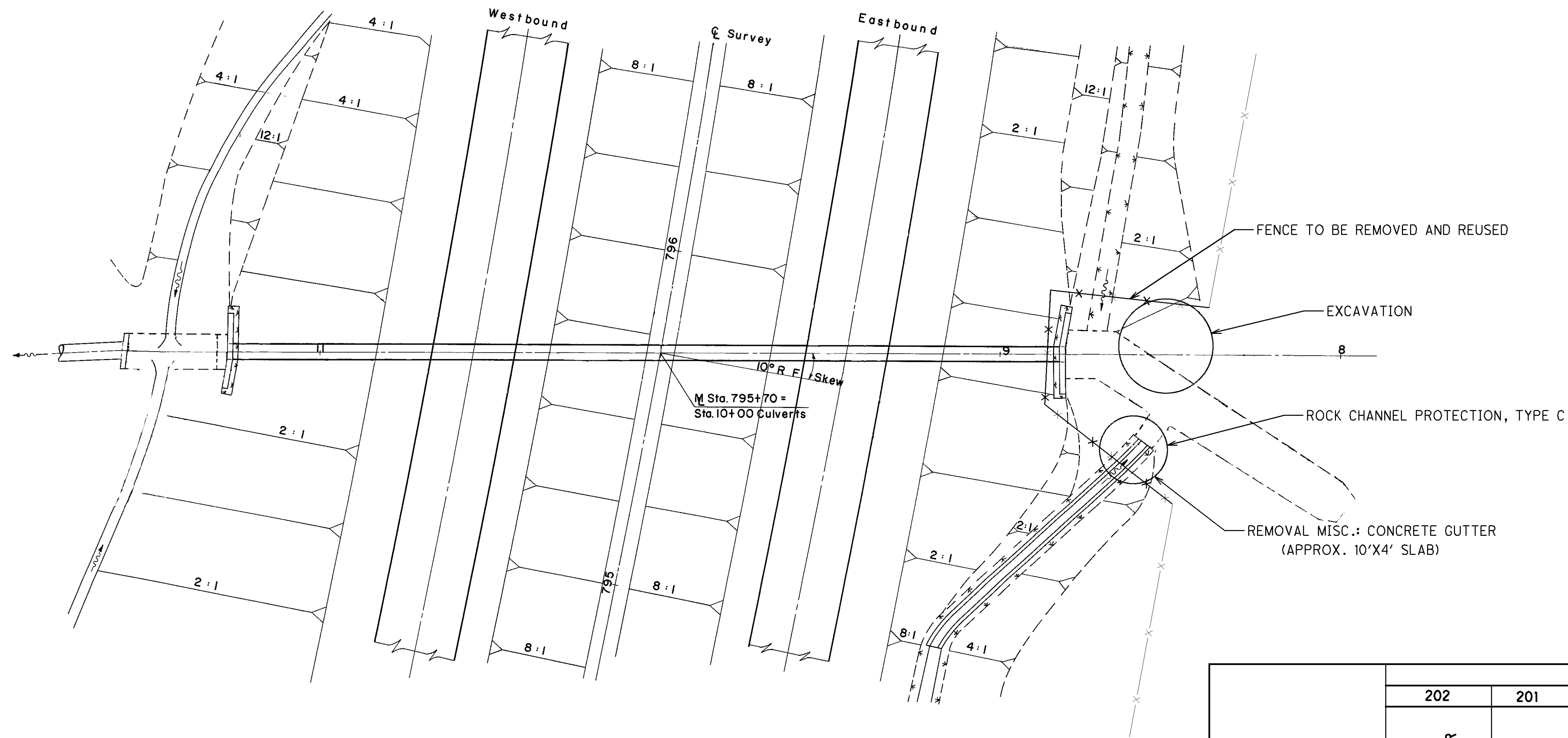
ESTIMATED QUANTITIES							
	202	202	203	601	602	603	
LOCATION	HEADWALL REMOVED	EACH					
	PIPE REMOVED, 24" AND UNDER	FOOT					
	EMBANKMENT	CY	475				
	ROCK CHANNEL PROTECTION TYPE C, WITH FILTER	CY		2			
	CONCRETE MASONRY	CY			0.43		
	24" CONDUIT, TYPE C 706.02	FOOT				35	
	TOTALS CARRIED TO GENERAL SUMMARY :						
	I-90 STA. 89+00		1	35	475	0.43	35

**DRAINAGE DETAILS : I-90
STA. 56+00 & STA. 89+00**

LAK-90-21.40
ATB-90-0.00

466A
498

I:\PROJECTS\PID75477\PlanPack\revised.dgn files to be tiffed\75477gd001.dgn 29-JUL-2009 11:34AM gnowac



CULVERT DATA

TYPE : Pipe Culvert
SIZE : 54" x 248

LOCATION	ESTIMATED QUANTITIES							
	202	201	601	203	837	837	202	607
	REMOVAL, MISC.: CONCRETE GUTTER	CLEARING AND GRUBBING	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	EXCAVATION	48" LINER PIPE, AS PER PLAN B	BACKFILL FOR LINER PIPE	FENCE REMOVED FOR REUSE	FENCE REBUILT, TYPE CLT
	LUMP	LUMP	CU. YD.	CU. YD.	FOOT	CU. YD.	FOOT	FOOT
I-90 STA. 795+70			10	20	248	34	100	100
TOTALS CARRIED TO GENERAL SUMMARY :	LUMP	*	10	20	248	34	100	100

* CLEARING AND GRUBBING, AS DIRECTED BY THE ENGINEER, NECESSARY TO PROVIDE ROOM FOR LINING PIPE SHALL BE PAID FOR UNDER ITEM 201 - CLEARING AND GRUBBING, LUMP SUM.

ITEM 837 - 48" LINER PIPE, AS PER PLAN B

THE FOLLOWING PIPES MAY BE USED FOR THIS ITEM:

707.12 - 48"
707.24 - 48"
707.43 - 48"
SS937, TYPE A - 48"
SS937, TYPE B - 48"



NOT TO SCALE

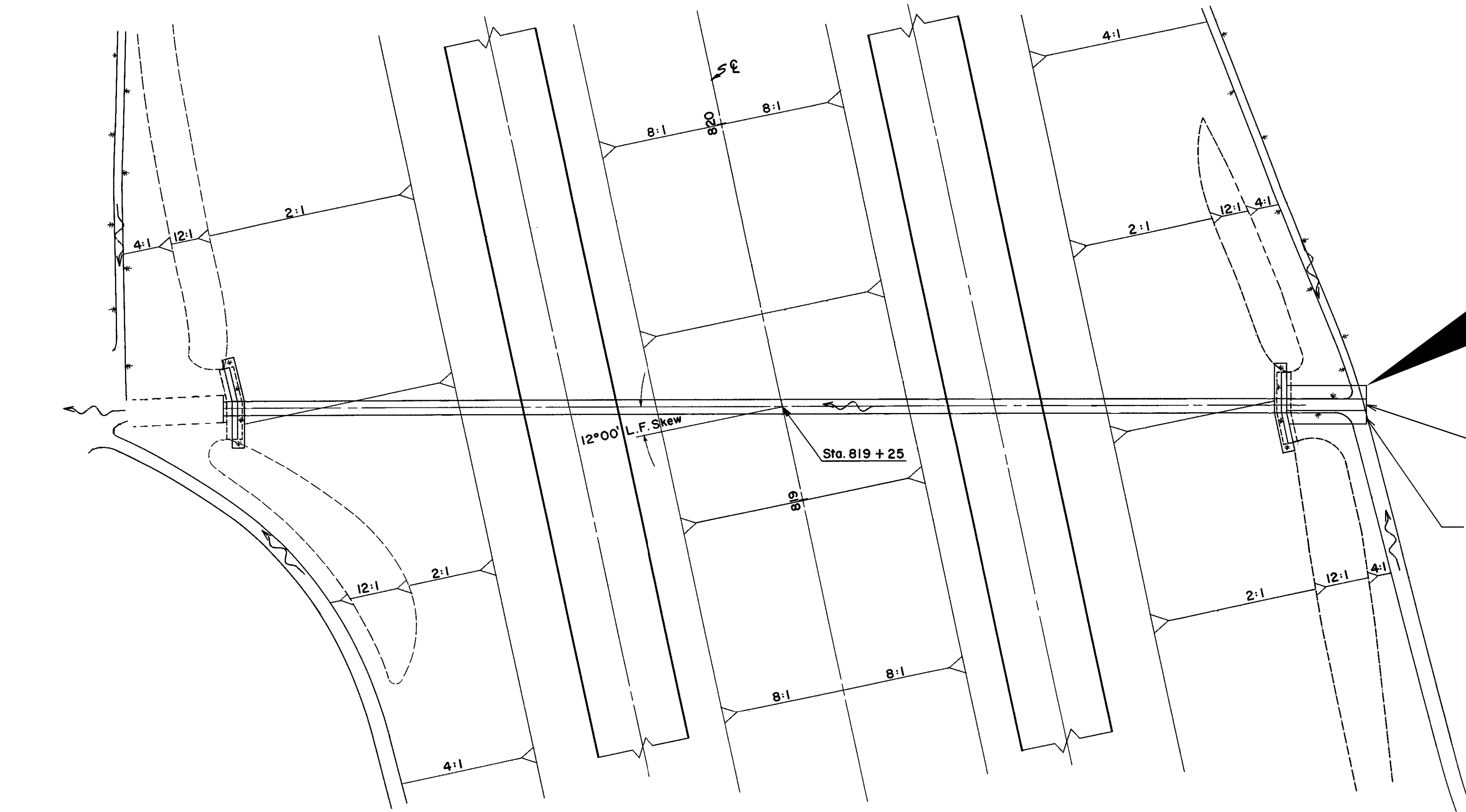
CALCULATED
CHECKED

PIPE CULVERT DETAIL : I-90
STA. 795+70

LAK-90-21.40
ATB-90-0.00

466B
498

I:\PROJECTS\PID75477\PlanPack\revised.dgn files to be tiffed 75477gd002.dgn 29-JUL-2009 11:35AM gnowac



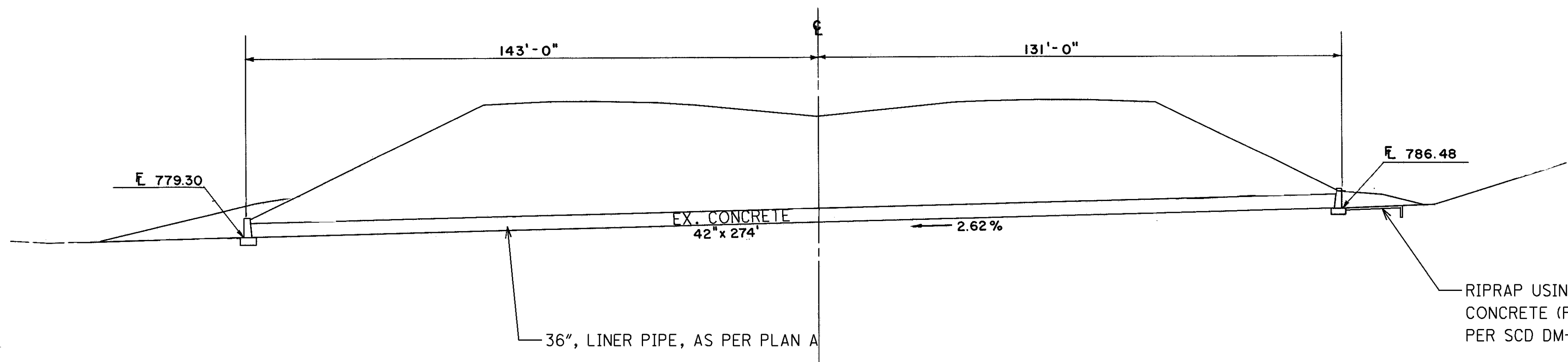
RIPRAP USING 6" REINFORCED CONCRETE SLAB

20 x 2	=	40	SQ. FEET
2 x 20 x 4.48	=	179.2	SQ. FEET
		219.2	SQ. FEET
	/	9	SQ. FEET
TOTAL		24.36	SQ. YD.

= 25 SQ. YD.

REMOVAL, MISC.: RIPRAP USING 6" REINFORCED CONCRETE SLAB

RIPRAP USING 6" REINFORCED CONCRETE SLAB



CULVERT DATA

TYPE : Pipe Culvert

SIZE : 42"x 274'

LOCATION	ESTIMATED QUANTITIES			
		202	601	837
	REMOVAL, MISC.: RIPRAP USING 6" REINFORCED CONCRETE SLAB		RIPRAP USING 6" REINFORCED CONCRETE SLAB	36" LINER PIPE, AS PER PLAN A
	LUMP	SQ. YD.	FOOT	CU. YD.
I-90 STA. 819+25		25	274	29
TOTALS CARRIED TO GENERAL SUMMARY :	LUMP	25	274	29

ITEM 837 - 36" LINER PIPE, AS PER PLAN A

THE FOLLOWING PIPES MAY BE USED FOR THIS ITEM:

707.12 - 36"

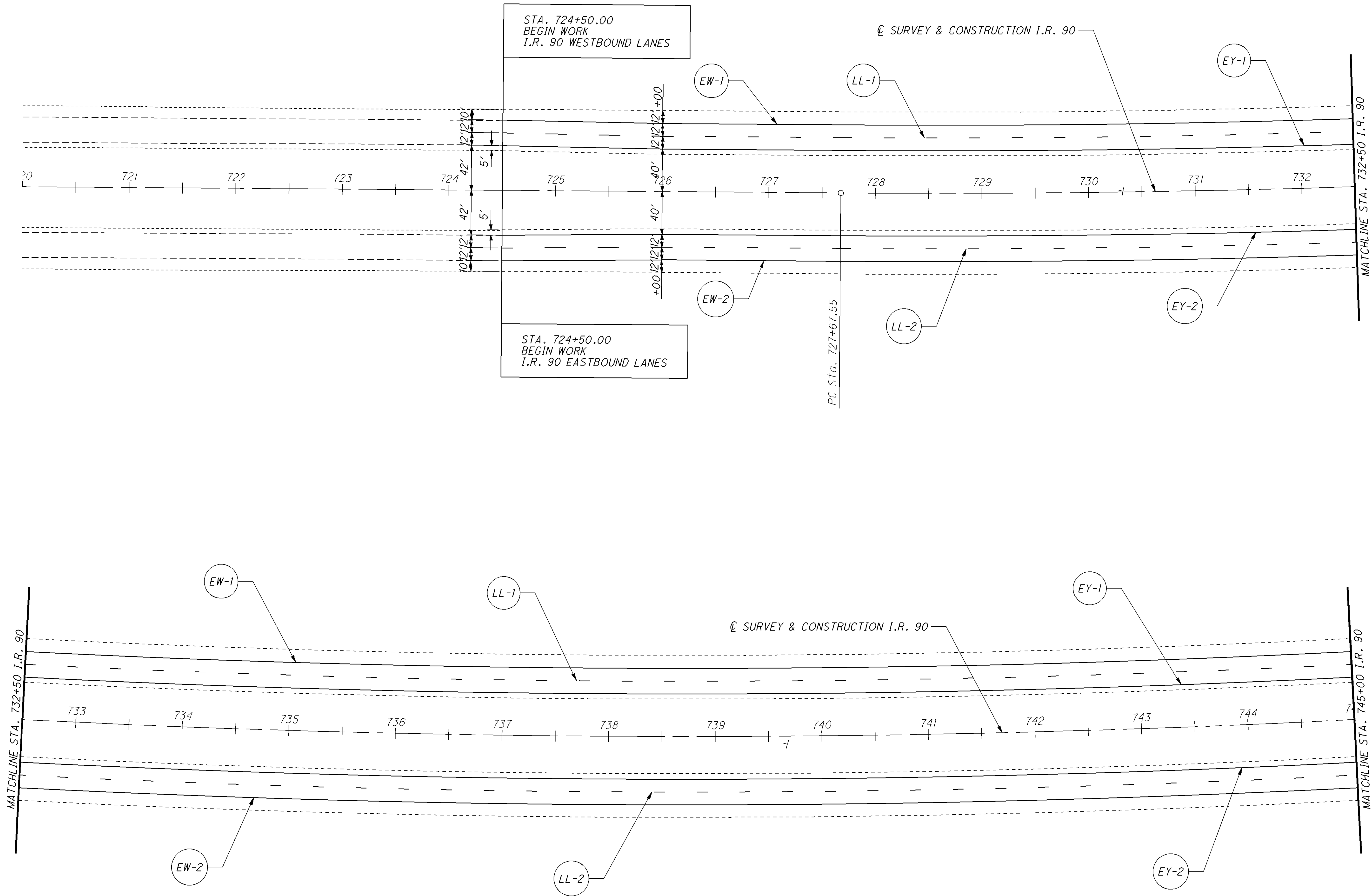
707.24 - 36"

707.42 - 36"

707.43 - 36"

SS937, TYPE A - 36"

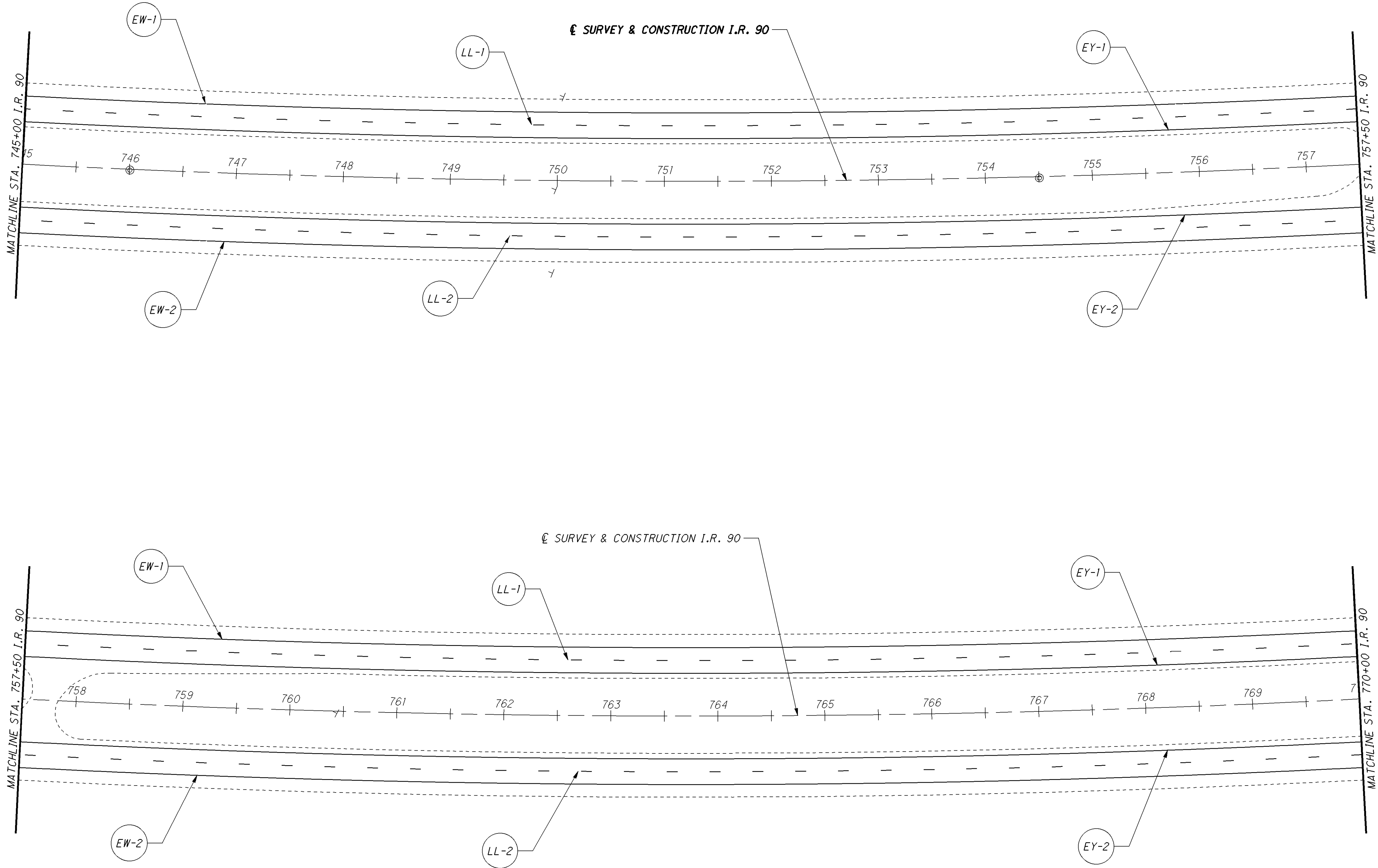
SS937, TYPE B - 36"

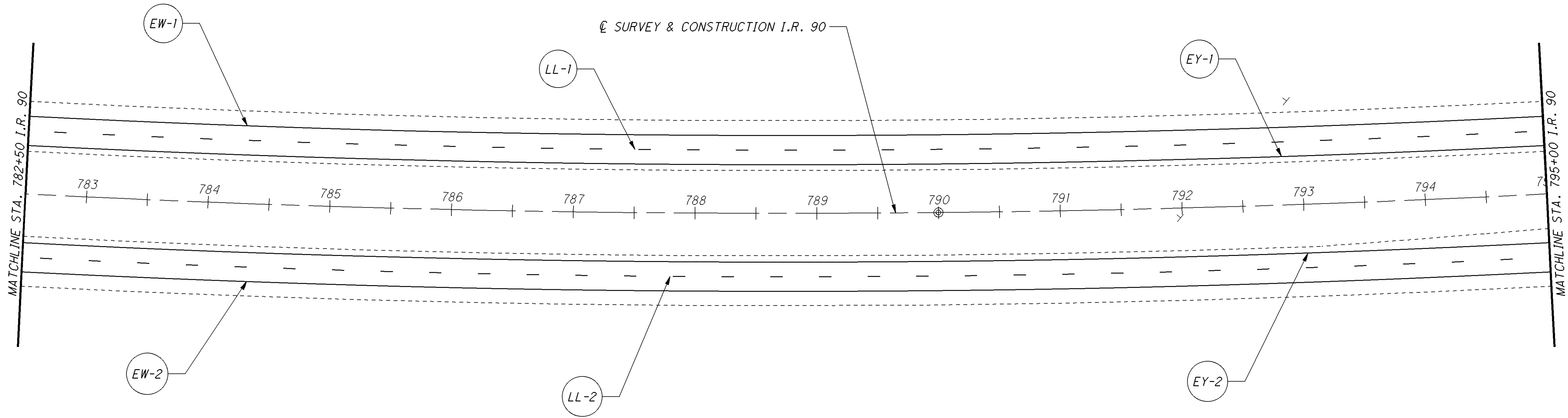
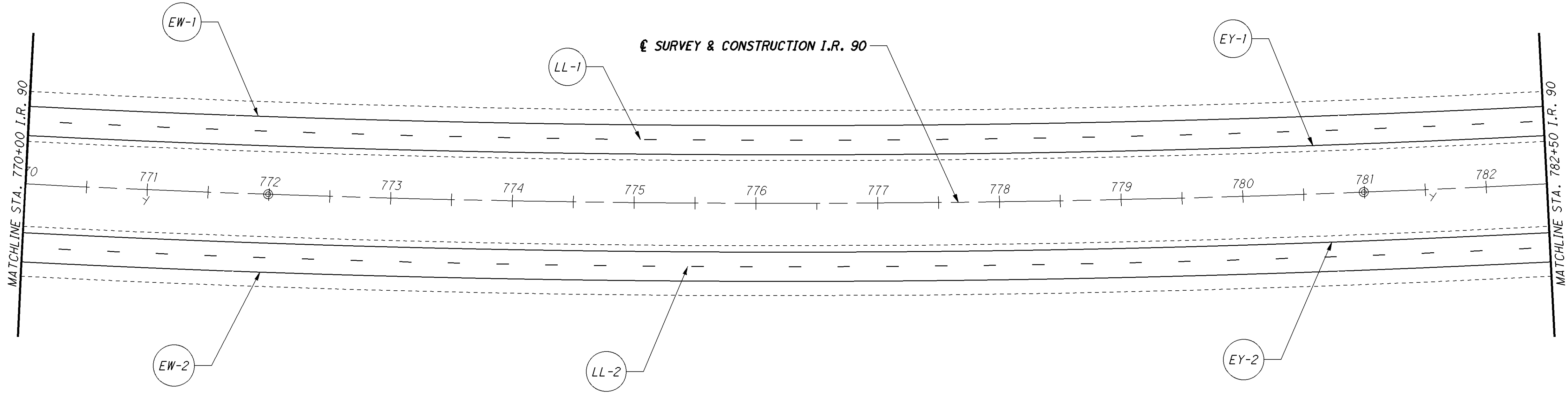


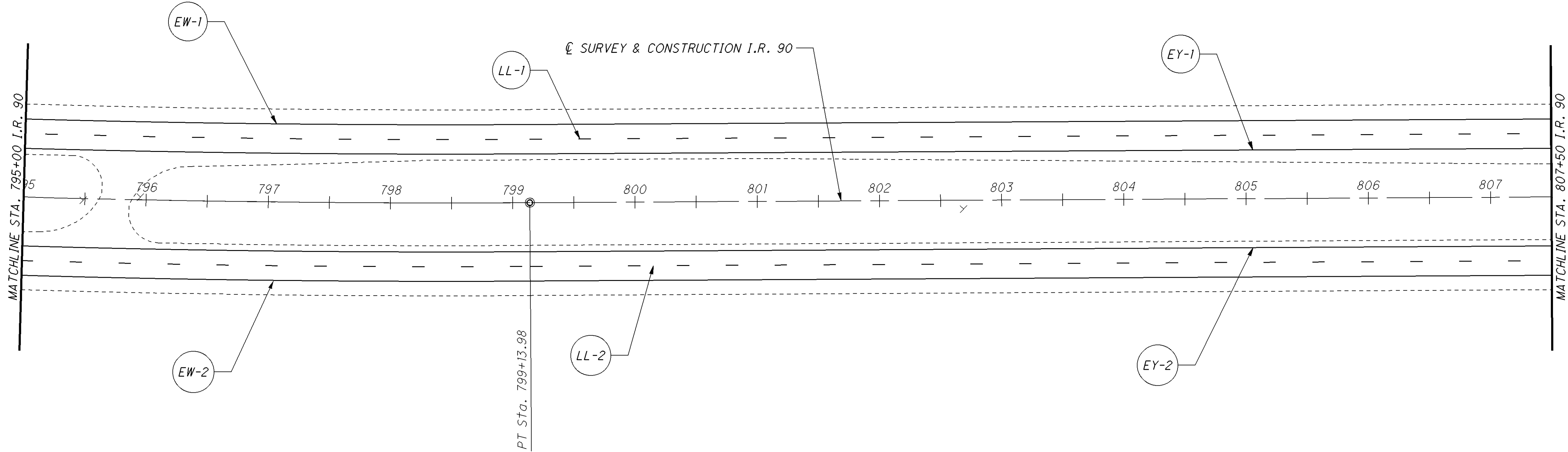
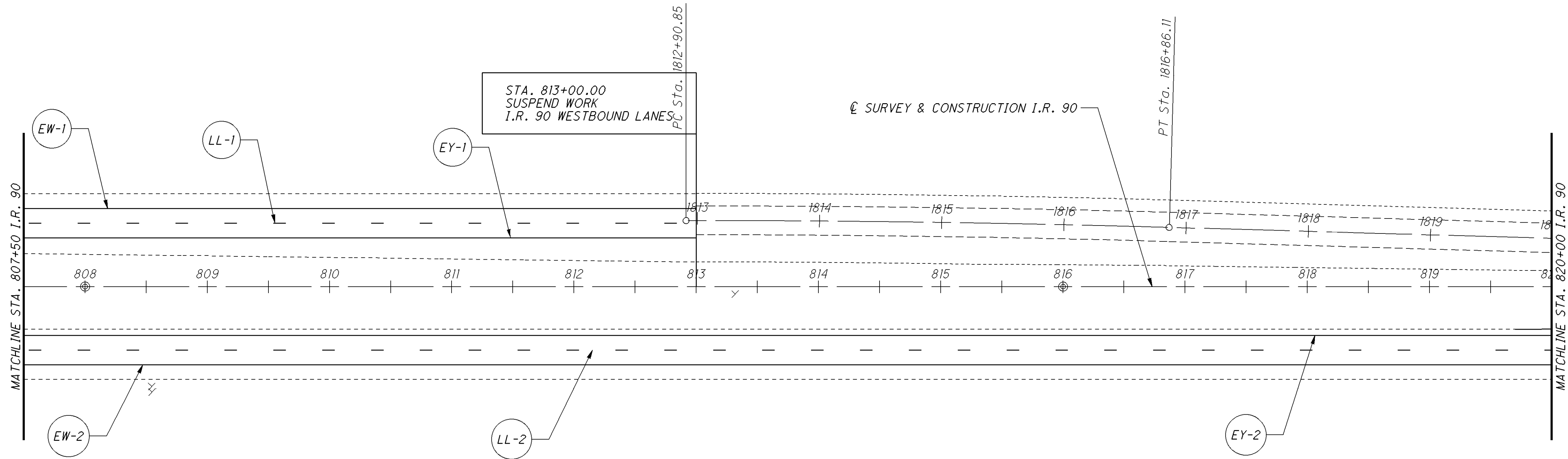
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C.Y.	

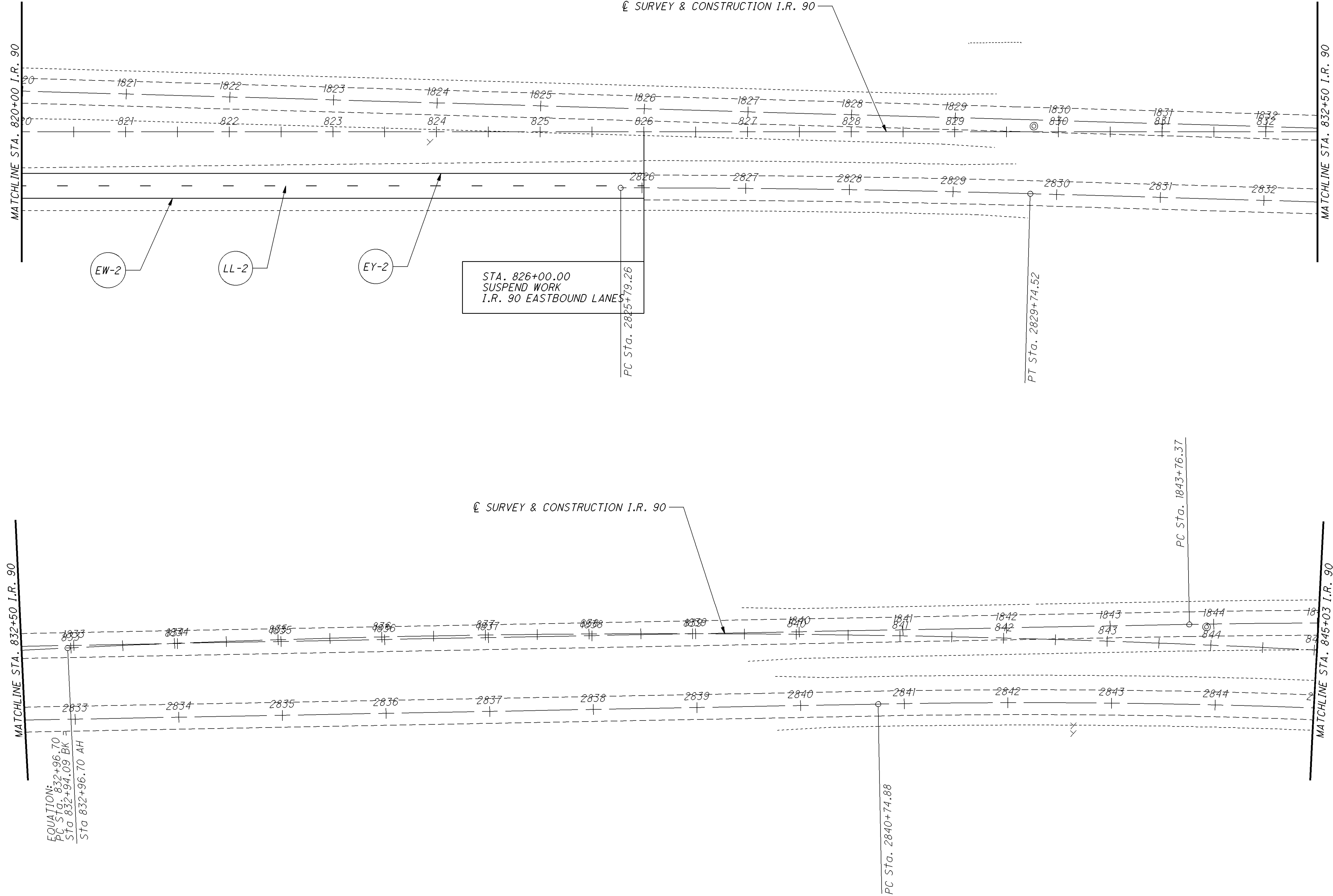
I.R. 90 TRAFFIC CONTROL PLAN SHEET
STA. 720+00.00 TO STA. 745+00.00

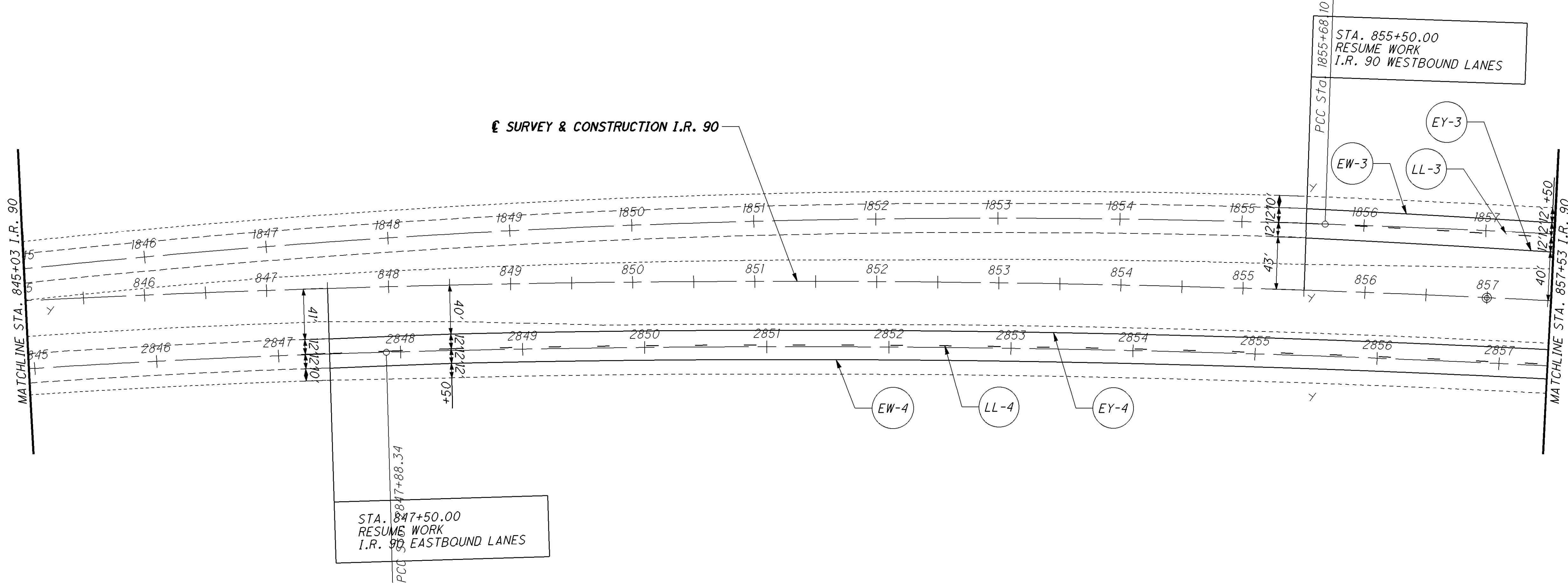
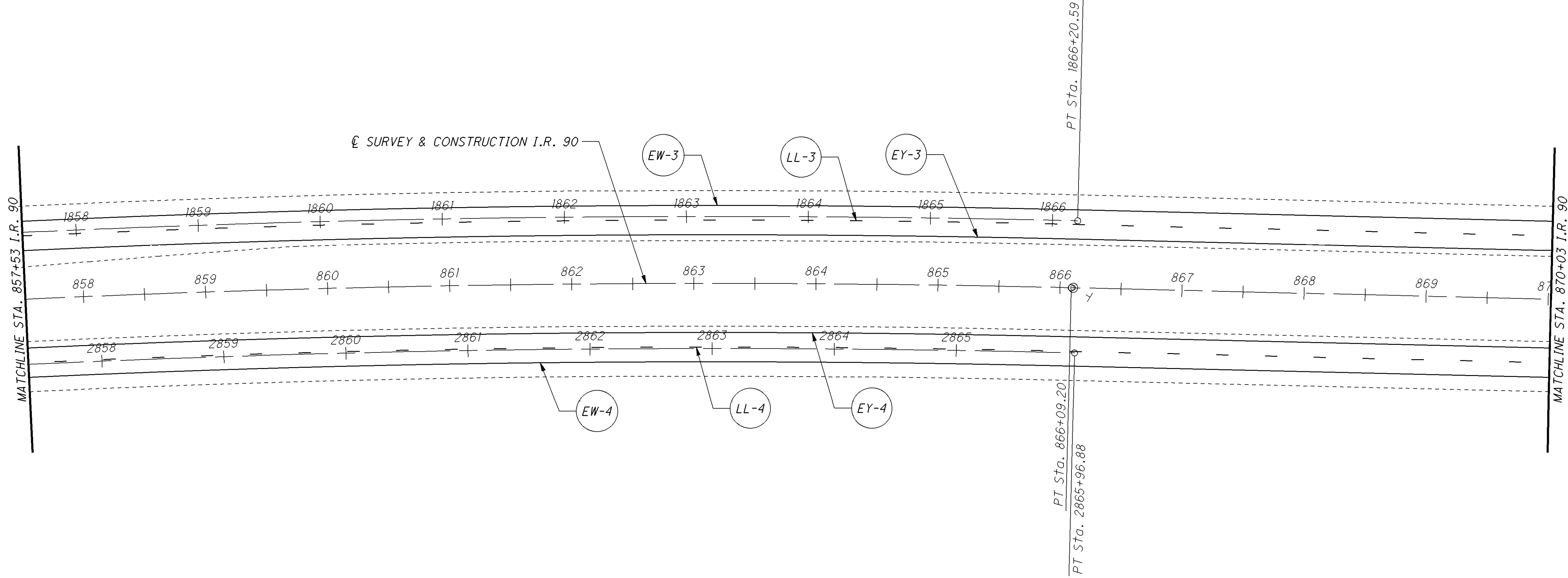
LAK-90-21.40
ATB-90-0.00

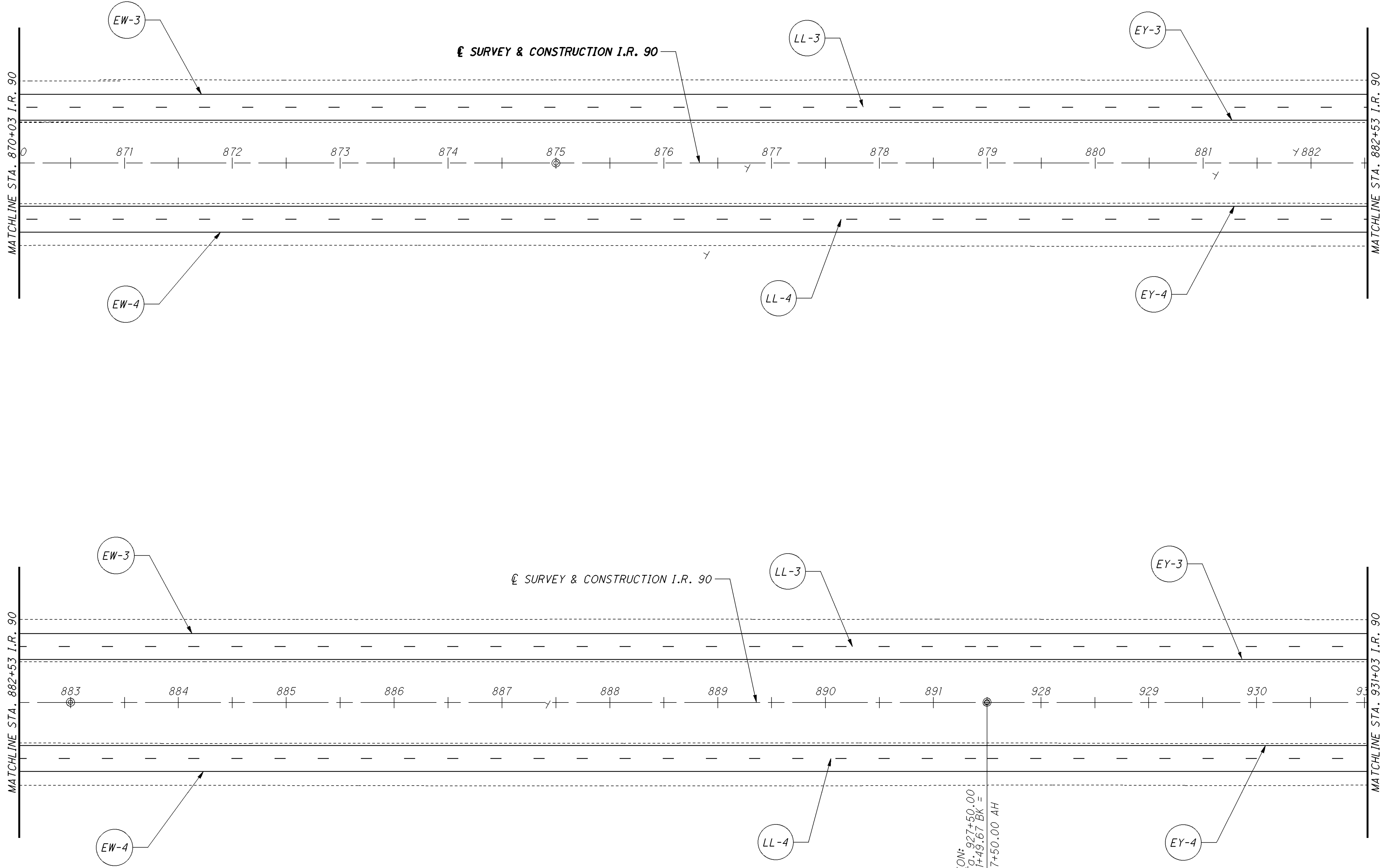


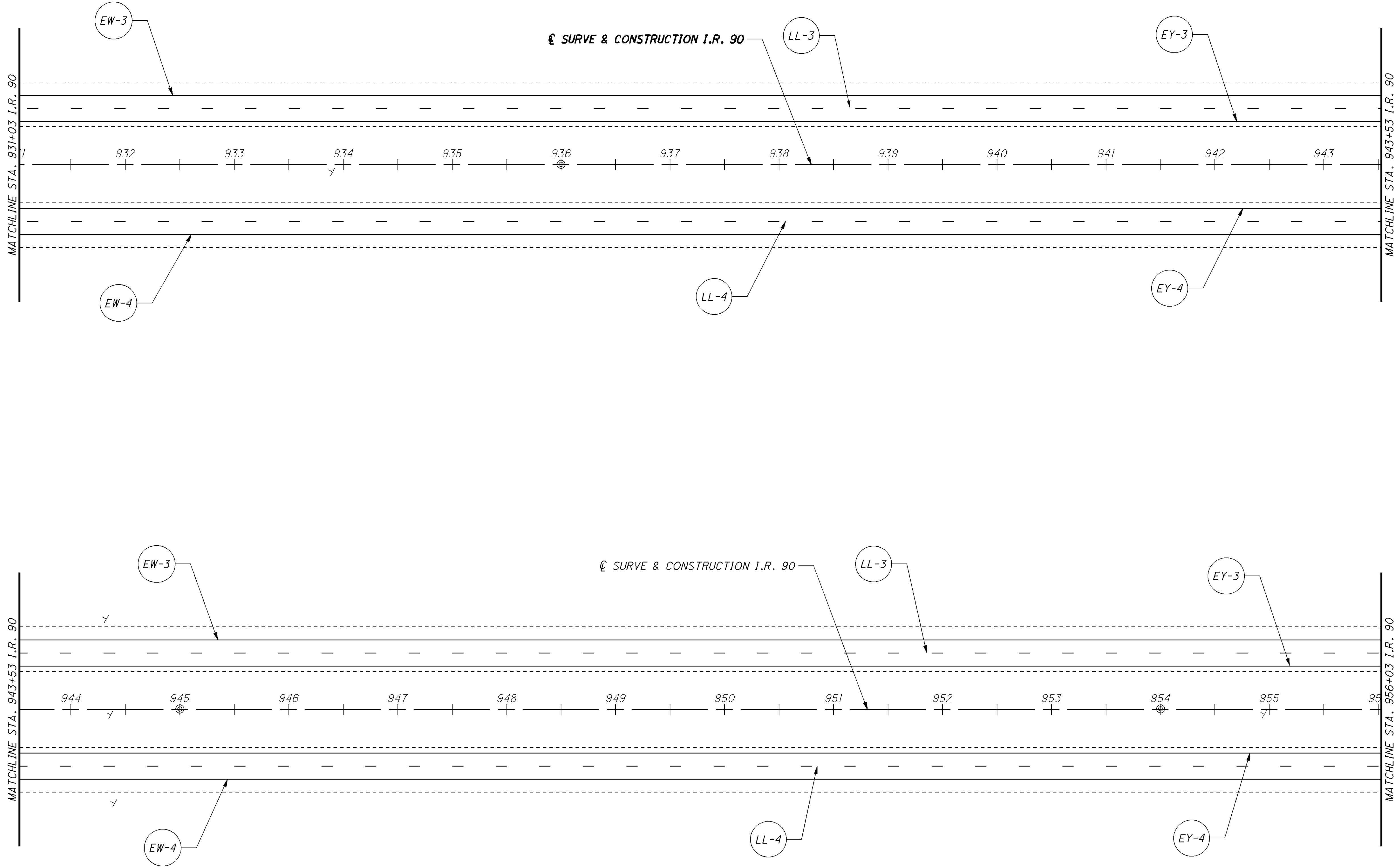




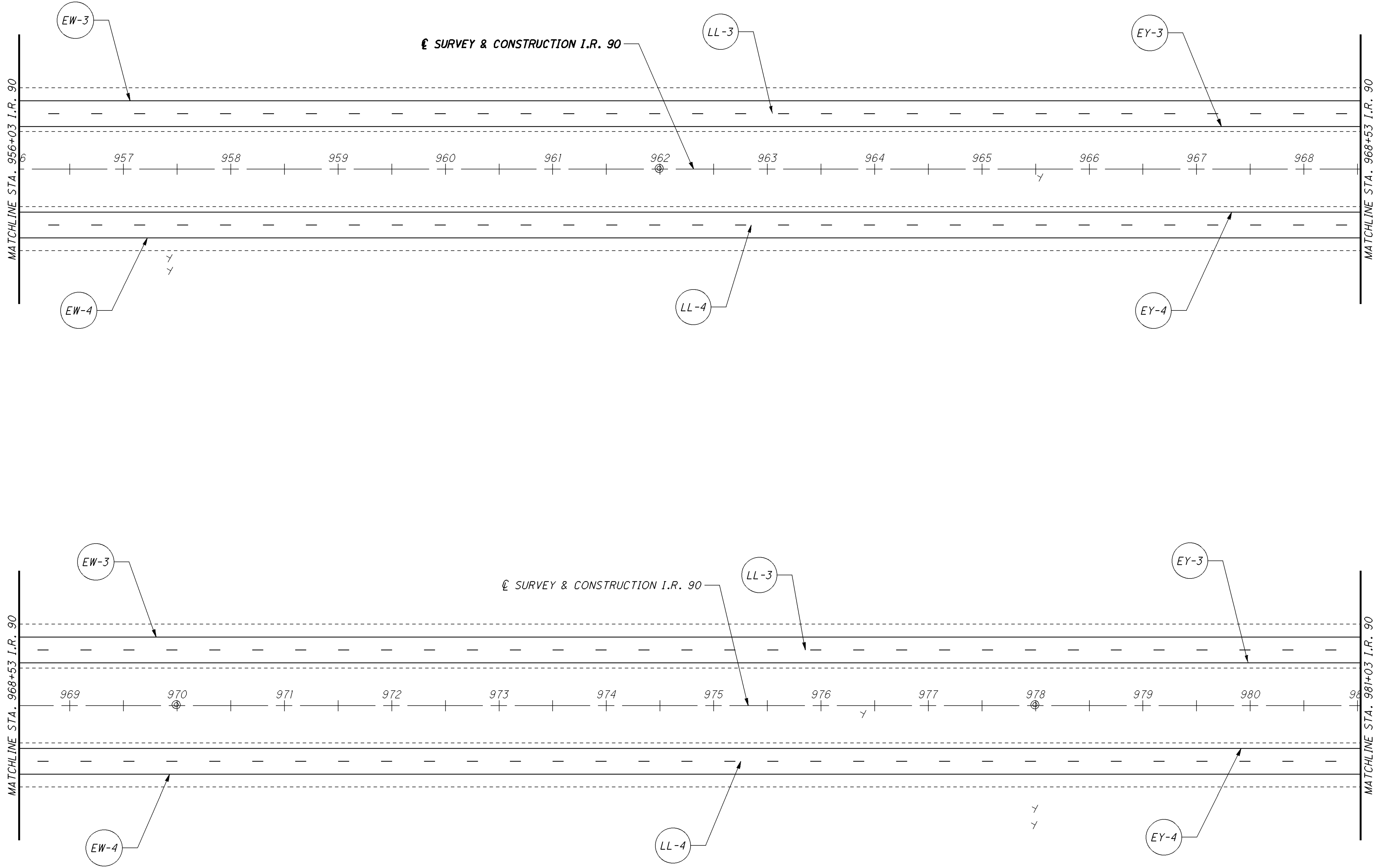








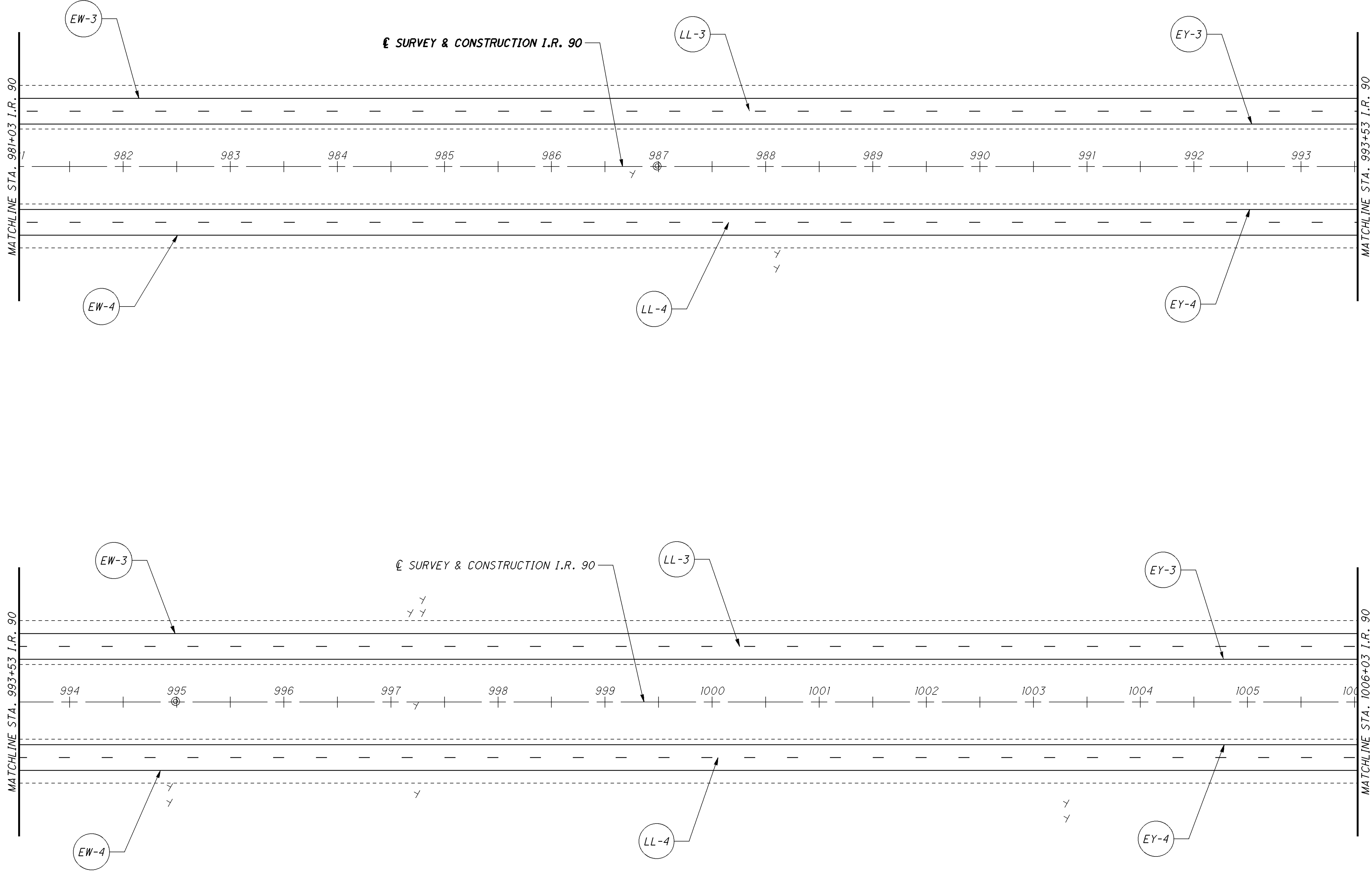
	 HORIZONTAL SCALE IN FEET
I.R. 90 TRAFFIC CONTROL PLAN SHEET STA. 931+03.00 TO STA. 956+03.00	
LAK-90-21.40 ATB-90-0.00	474 498



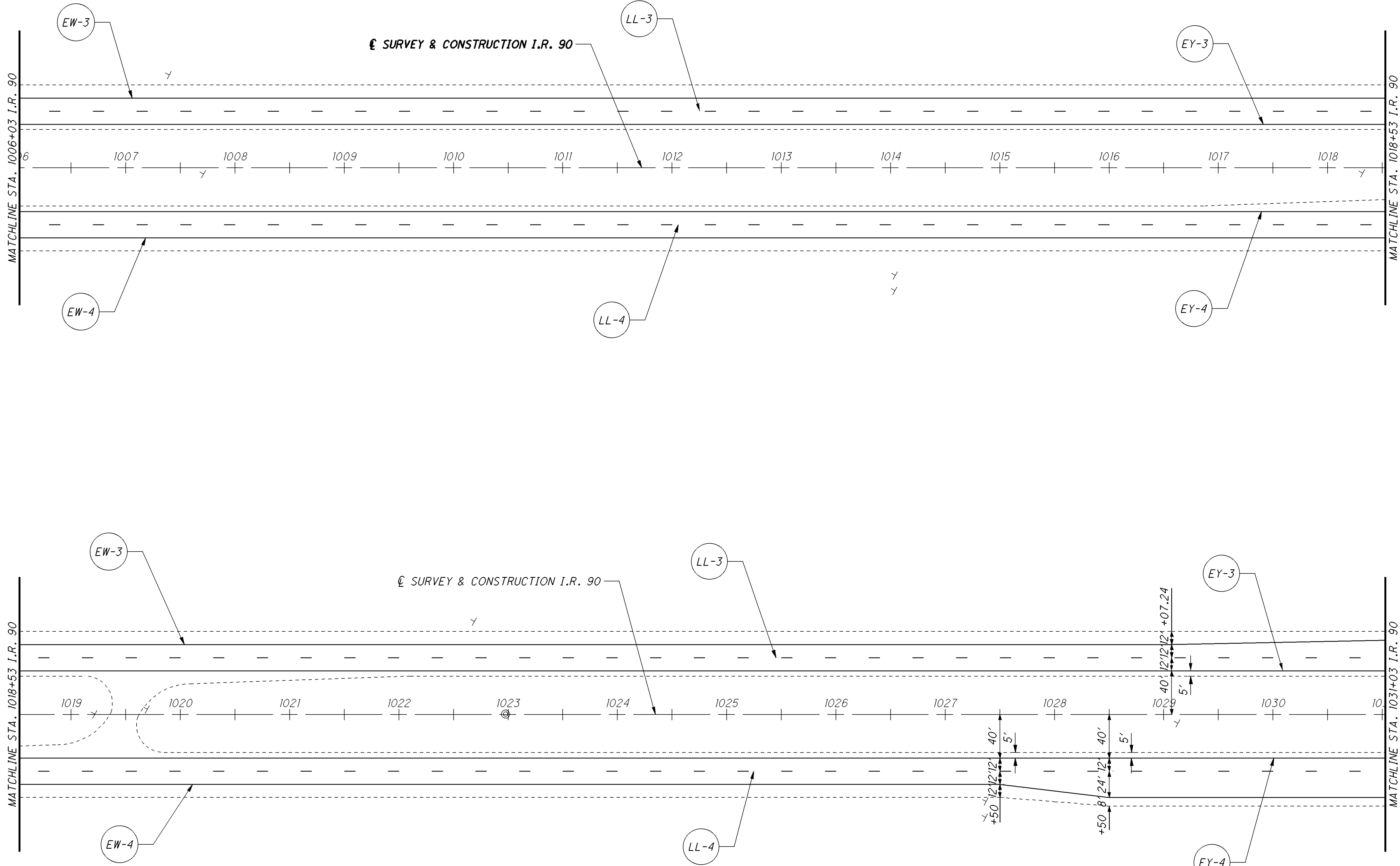
CALCULATED C.Y.	CHECKED	I.R. 90 TRAFFIC CONTROL PLAN SHEET STA. 956+03.00 TO STA. 981+03.00	LAK-90-21.40 ATB-90-0.00	475 498

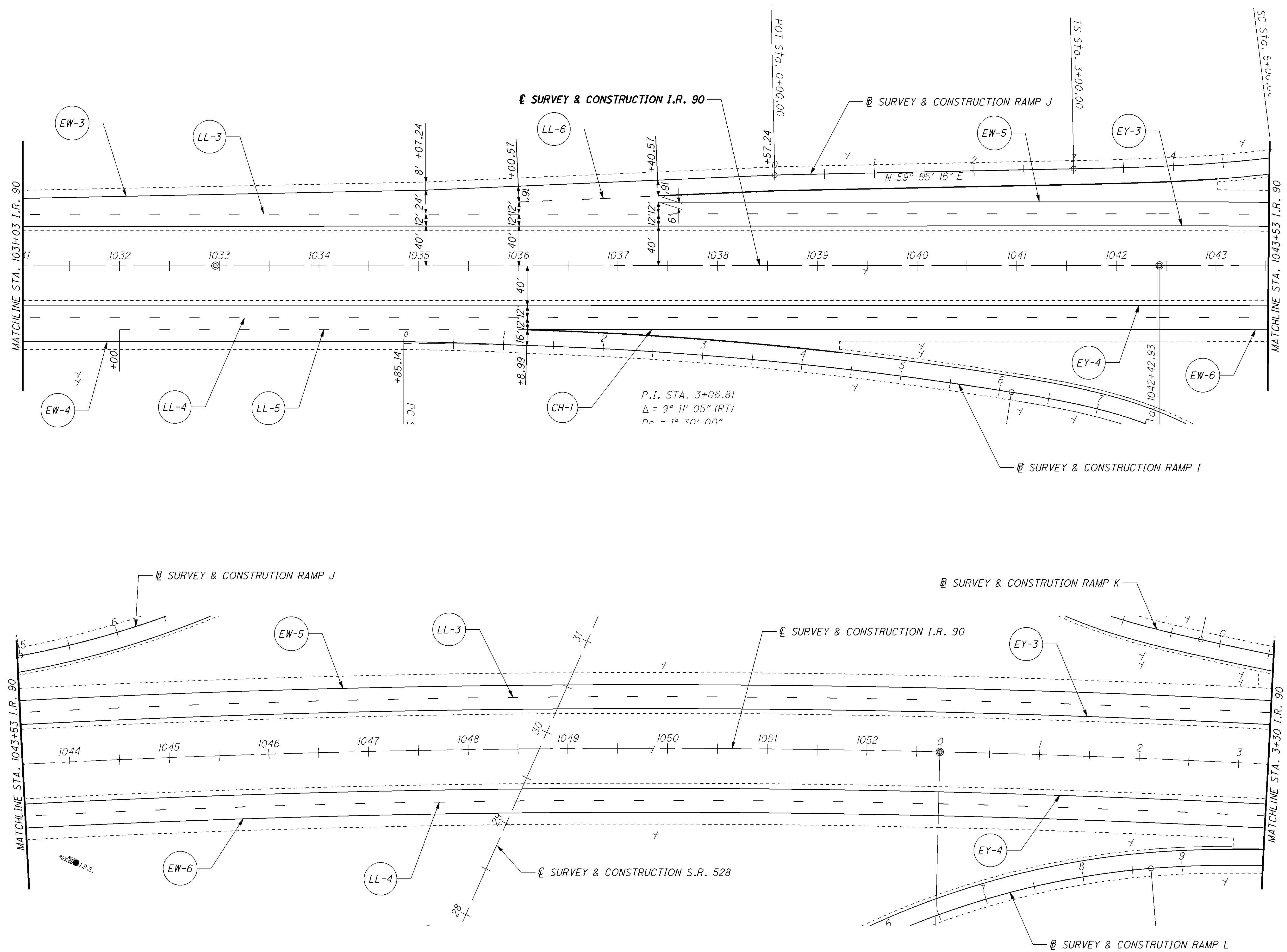
0 25 50 100
HORIZONTAL
SCALE IN FEET

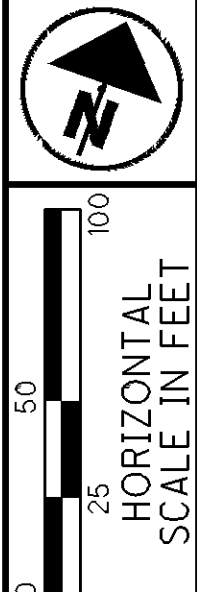
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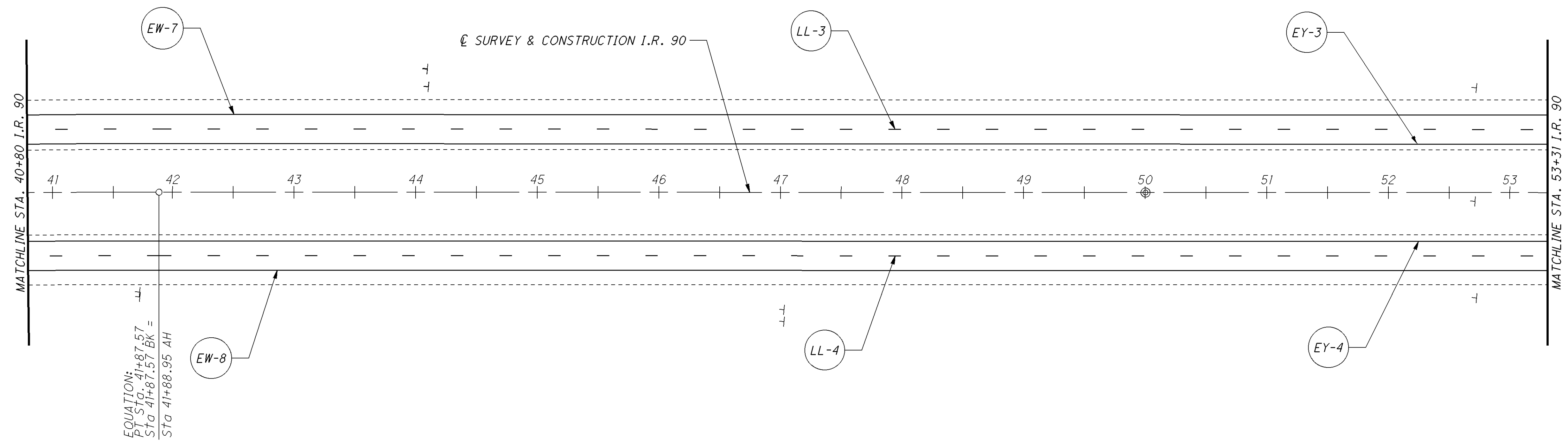


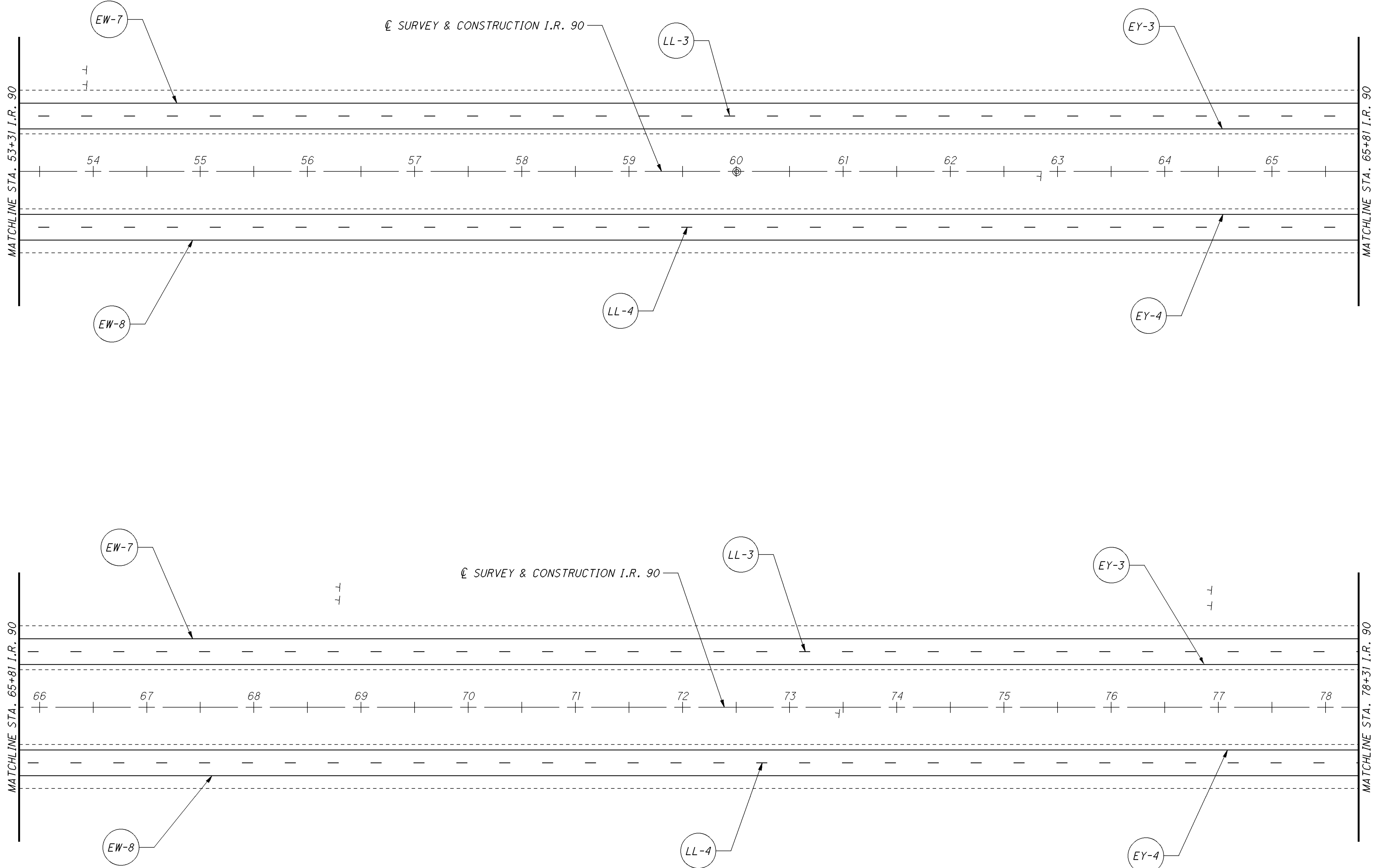
	 HORIZONTAL SCALE IN FEET
I.R. 90 TRAFFIC CONTROL PLAN SHEET STA. 981+03.00 TO STA. 1006+03.00	
LAK-90-21.40 ATB-90-0.00	476 498







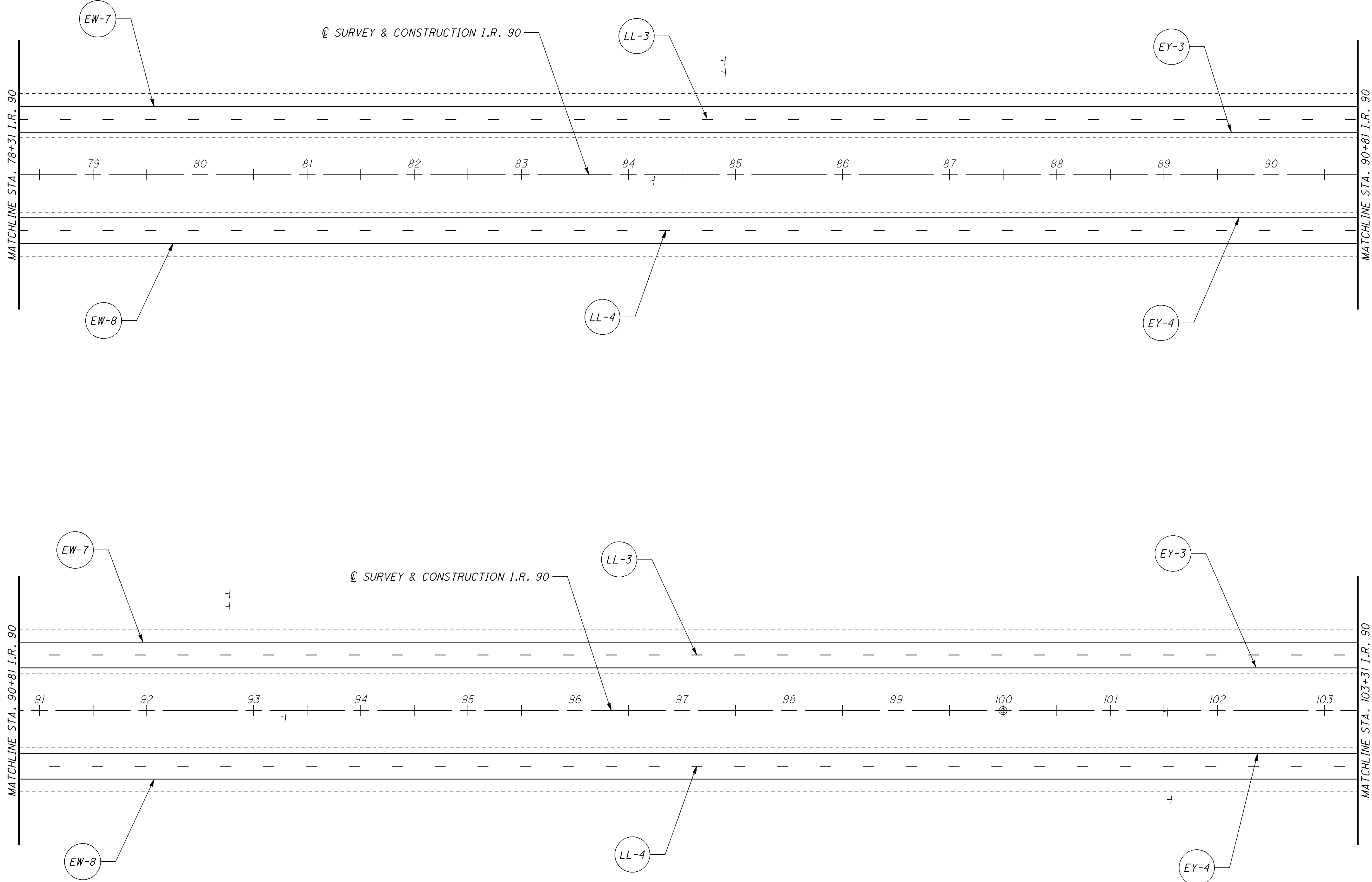


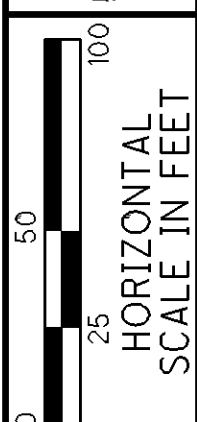
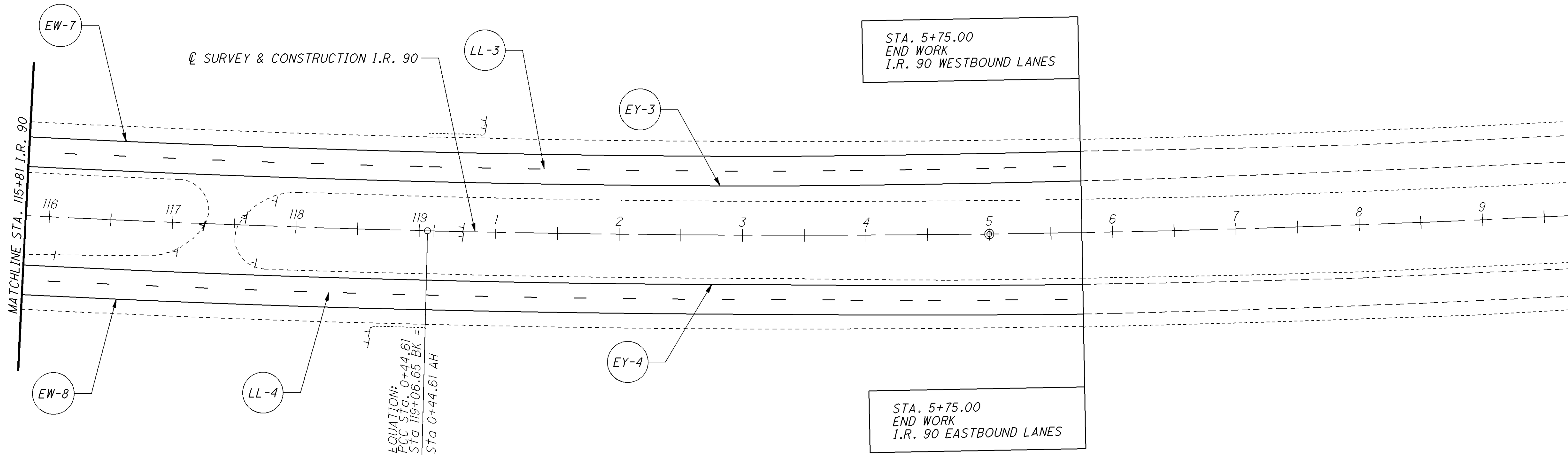
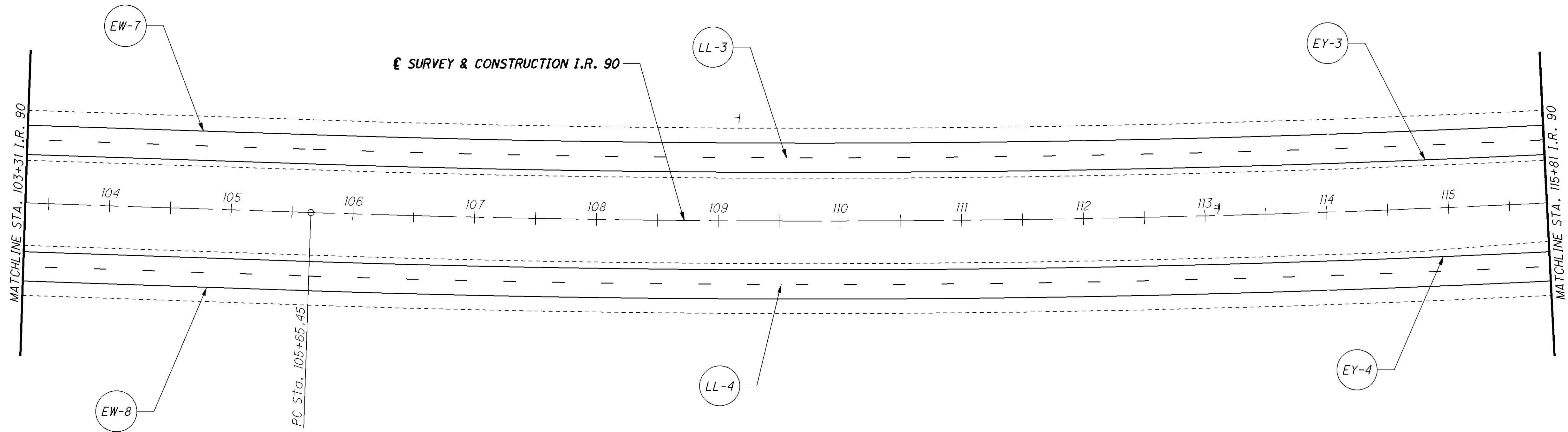


CALCULATED
C.Y.
CHECKED

I.R. 90 TRAFFIC CONTROL PLAN SHEET
STA. 53+31.00 TO STA. 78+31.00

LAK-90-21.40
ATB-90-0.00

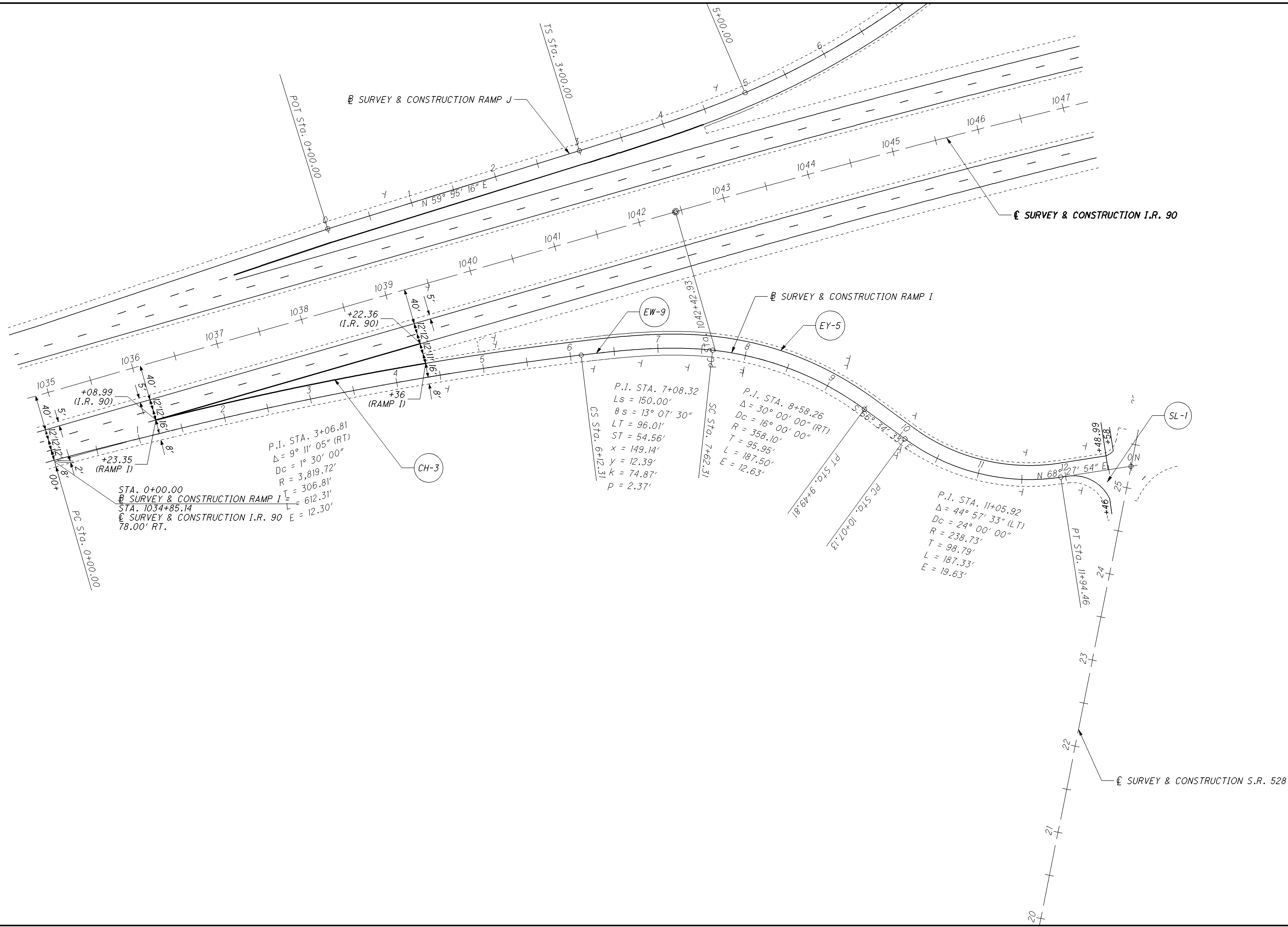


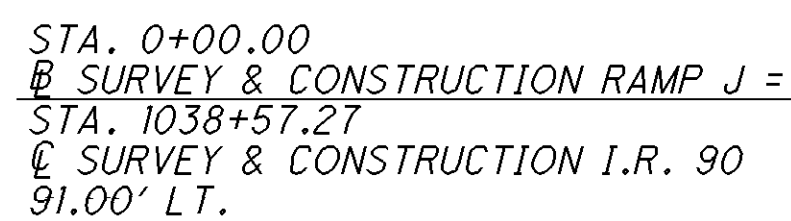


CALCULATED	C.Y.	CHECKED
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I.R. 90 TRAFFIC CONTROL PLAN SHEET
STA. 103+31.00 TO STA. 9+69.00

LAK-90-21.40
ATB-90-0.00





P.I. STA. 3+06.81
 $\Delta = 9^\circ 11' 05''$ (RT)
 $DC = 1^\circ 30' 00''$
 $R = 3,819.72'$
 $T = 306.81'$
 $L = 612.31'$
 $E = 12.30'$

B SURVEY & CONSTRUCTION RAMP I

P.I. STA. 7+08
 Ls = 150.00'
 $\theta = 13^\circ 07' 30''$
 LT = 96.01'
 ST = 54.56'
 X = 149.14'
 Y = 12.39'
 Z = 74.87'
 P = 2.37'

P.I. STA. 8+58.26
 $\Delta = 30^\circ 00' 00''$ (RT)
 $DC = 16^\circ 00' 00''$
 $R = 358.10'$
 $T = 95.95'$
 $L = 187.50'$
 $E = 12.63'$
 SC STA. 7+62.31
 30°

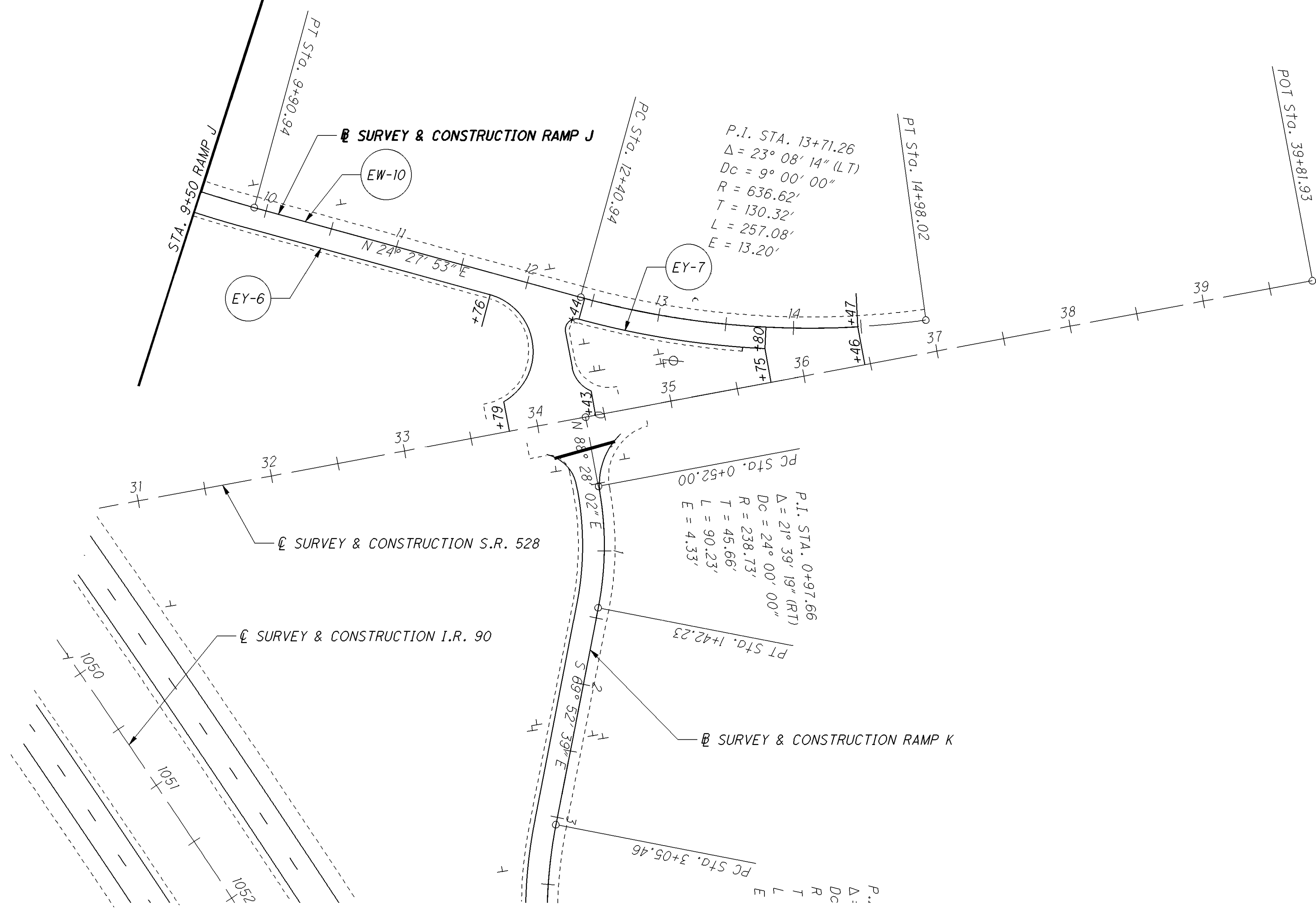
B SURVEY &
CONSTRUCTION RAMP J

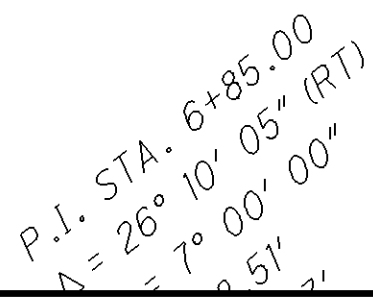
P.I. STA. 7+51.02
 $\Delta = 35^\circ 27' 23''$ (LT)
 $DC = 6^\circ 00' 00''$
 $R = 954.93'$
 $\Delta C = 29^\circ 27' 23''$ (LT)
 $LC = 490.94'$
 $ES = 48.53'$

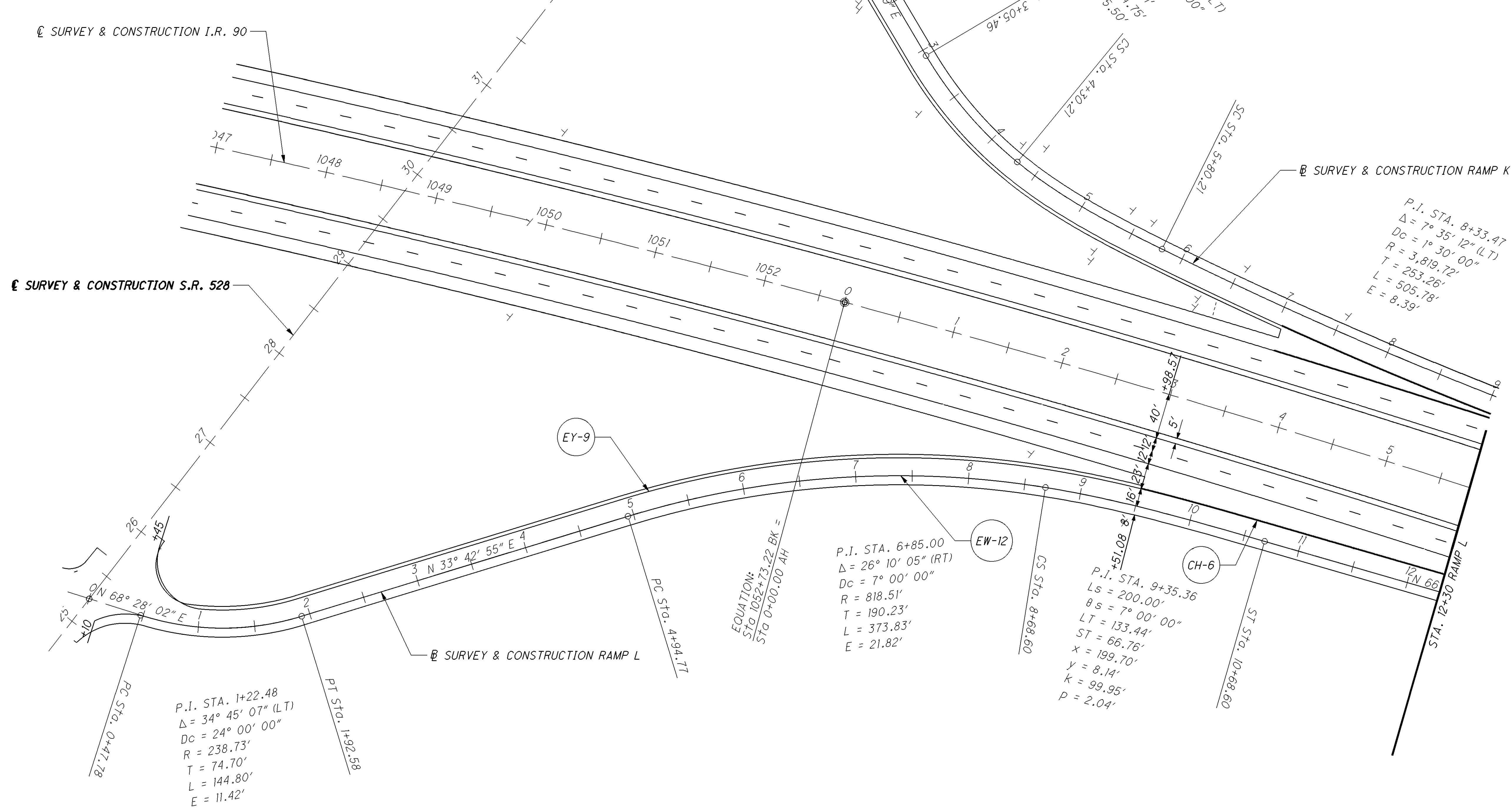
—€ SURVEY & CONSTRUCTION I.R. 90

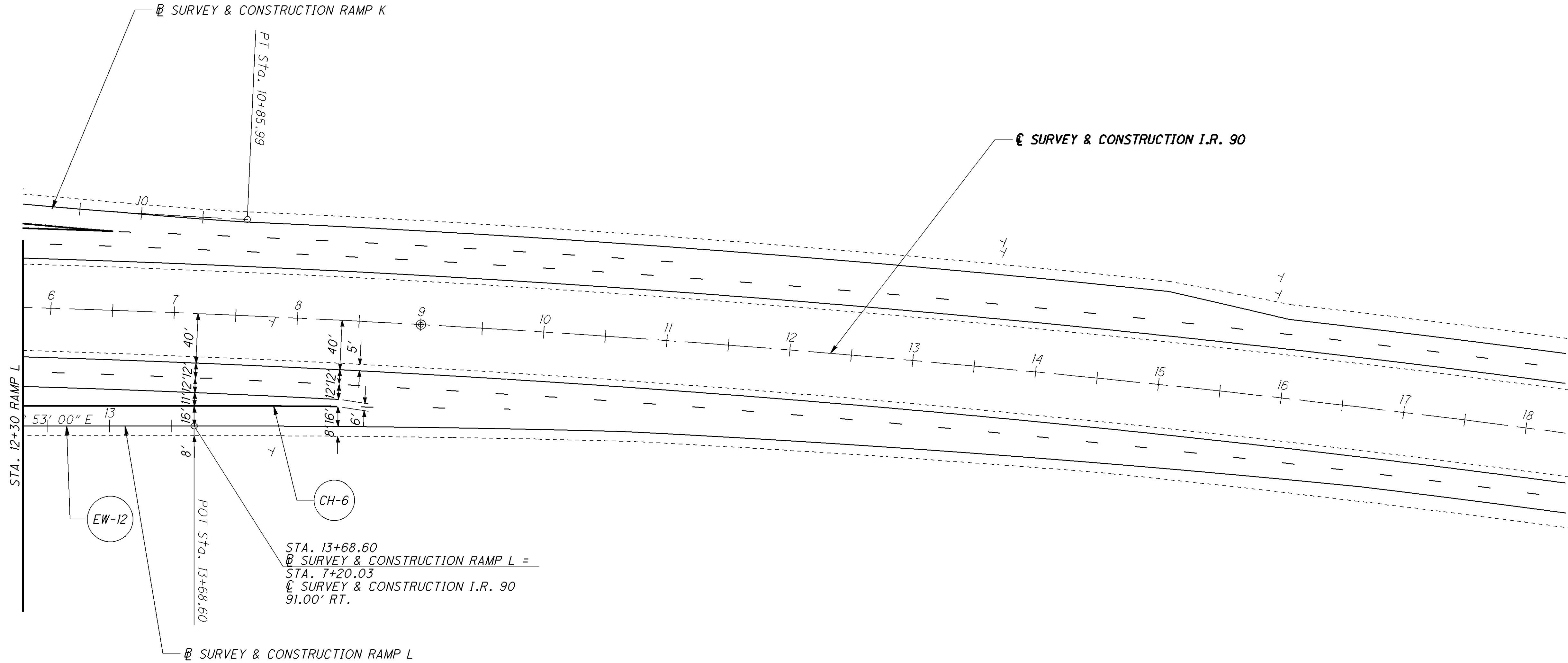
Q SURVEY & CONSTRUCTION S.R. 528











490
498

492
498

ITEM 625, POWER SERVICE

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

I.R. 90 AND S.R. 528 INTERCHANGE

THE ILLUMINATING COMPANY
6896 MILLER ROAD
BRECKSVILLE, OH 44141
PHONE: (800) 589-3101

POWER SERVICE EQUIPMENT SHALL BE INSTALLED AS SPECIFIED IN THE O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ON STANDARD CONSTRUCTION DRAWING HL-40.10. THE CONTRACTOR SHALL PAY ANY POWER COMPANY FEES ASSOCIATED WITH THE INSTALLATION AND CONNECTION OF THE POWER SERVICE. PAYMENT TO THE CONTRACTOR IS INCIDENTAL TO "ITEM 625, POWER SERVICE". ELECTRICAL ENERGY FROM EXISTING POWER SERVICES SHALL CONTINUE TO BE CHARGED TO THE MAINTAINING AGENCY. THE CONTRACTOR SHALL PAY ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. UPON ACCEPTANCE OF THIS LIGHTING, POWER SERVICE ELECTRICAL ENERGY ACCOUNTS SHALL BE TRANSFERRED TO THE MAINTAINING AGENCIES NOTED IN THE PLANS. THIS SHALL INCLUDE NEW POWER SERVICE ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DUE TO WORK PERFORMED BY THIS PROJECT.

LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX," OSRAM SYLVANIA "LUMALUX," PHILIPS "CERAMALUX," OR EQUAL APPROVED BY THE ENGINEER.

PADLOCKS AND KEYS

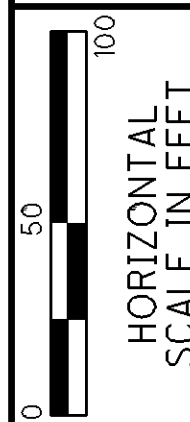
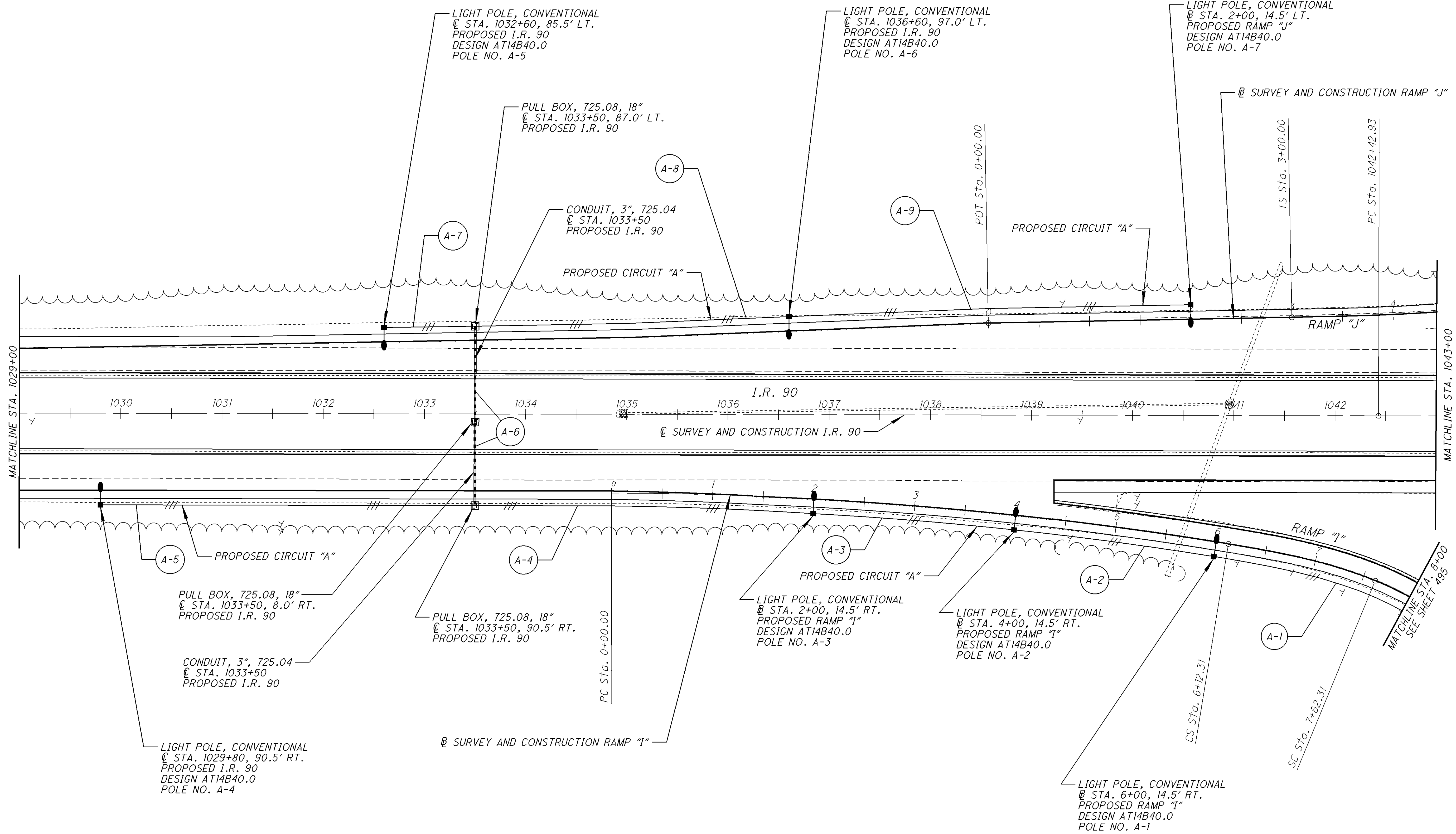
PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH CMS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

ITEM 625, LUMINAIRE, CONVENTIONAL, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS WITH AN IES TYPE II DISTRIBUTION, FULL CUTOFF OPTICS AND 250 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE AMERICAN ELECTRIC "SERIES 125 CUTOFF" WITH PHOTOMETRIC DISTRIBUTION I25 25S R2 FG, COOPER "OVF" WITH PHOTOMETRIC DISTRIBUTION OVF25SXX2D, GENERAL ELECTRIC "M-250R2 CUTOFF" WITH PHOTOMETRIC DISTRIBUTION GEI77306, OR EQUAL AS APPROVED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS "ITEM 625, LUMINAIRE, CONVENTIONAL, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

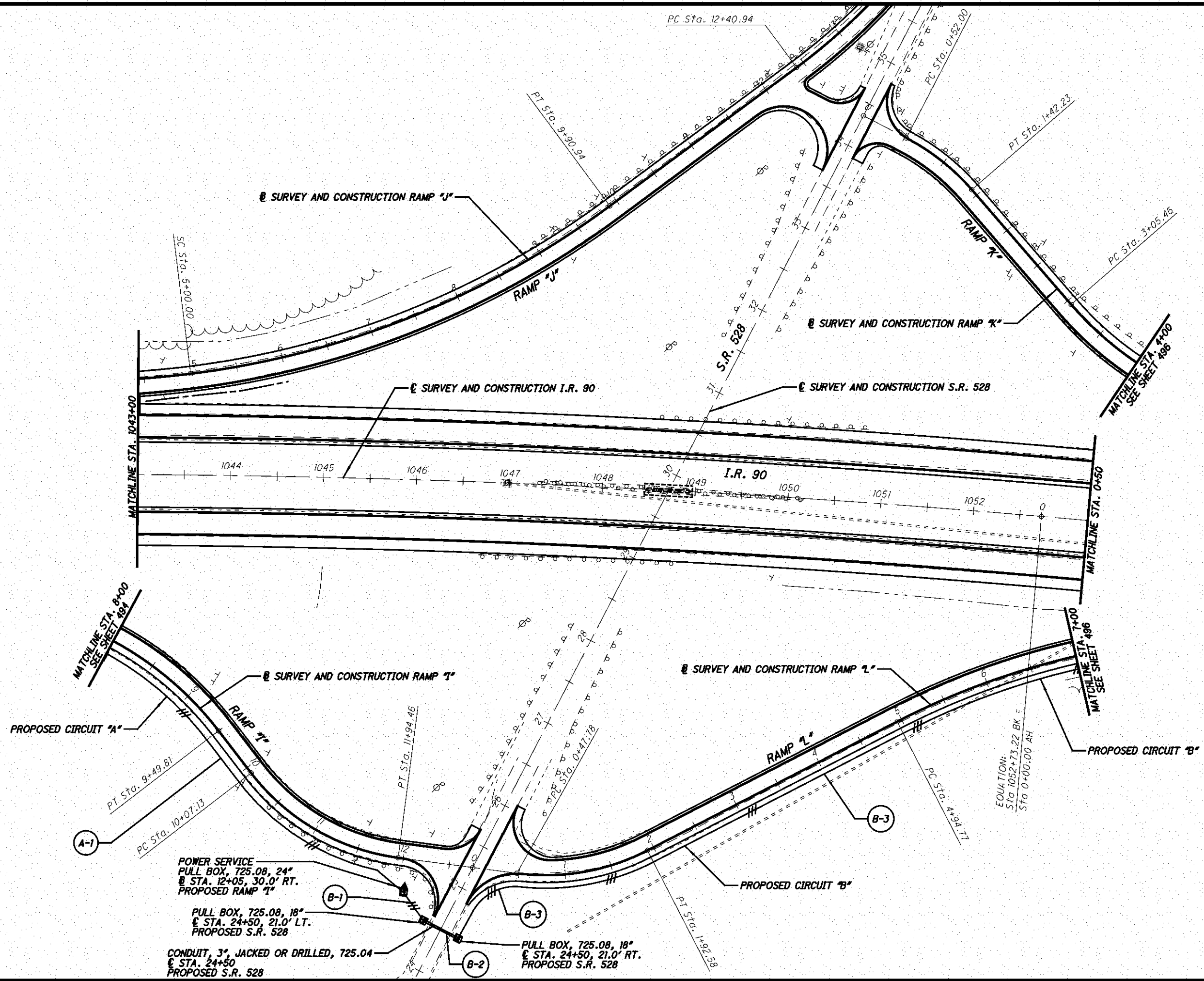
CALCULATED	M.M.	LIGHTING GENERAL NOTES	LAK-90-21.40 ATB-90-0.00	493 498
	CHECKED J.C.			

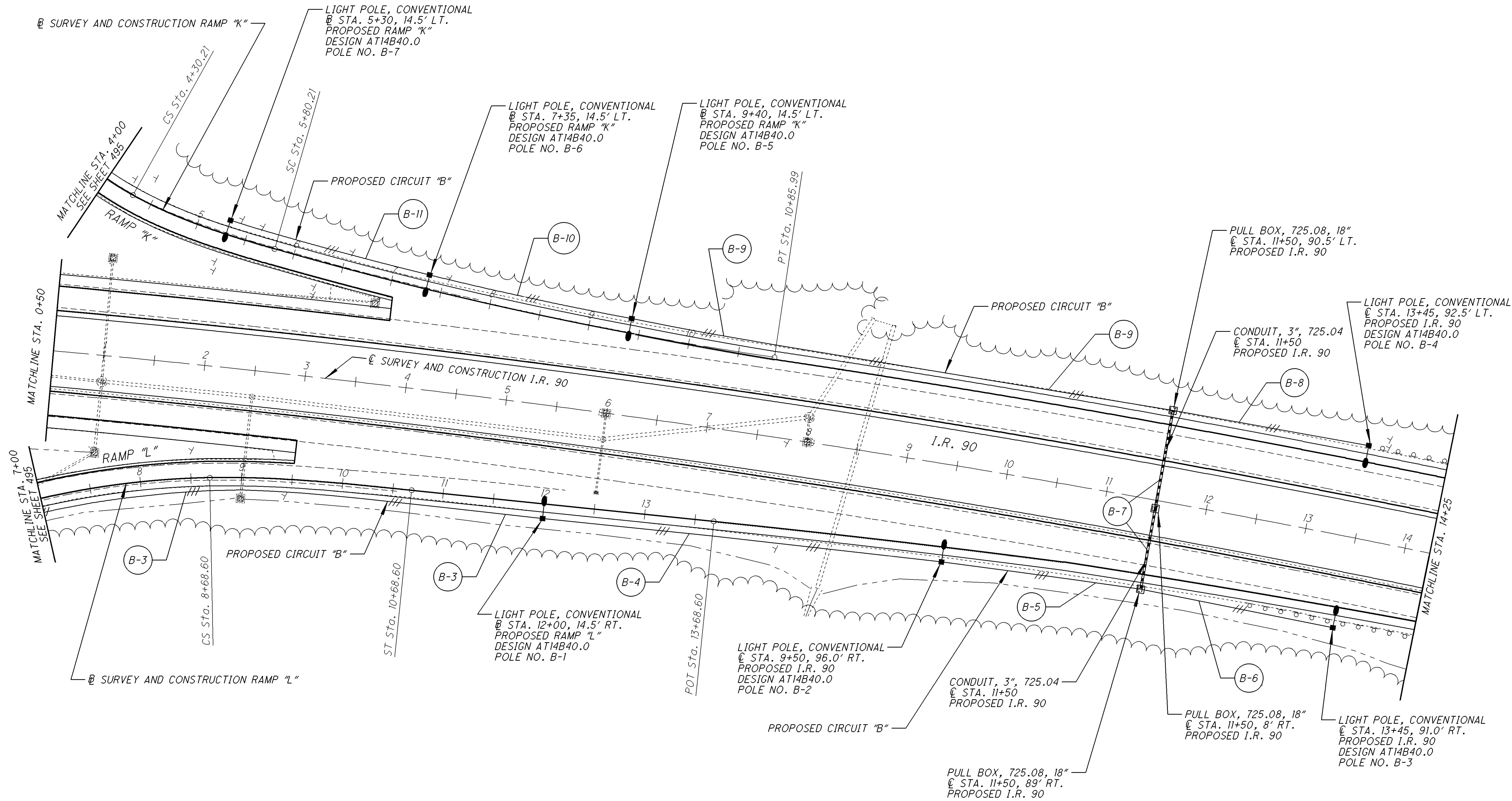


CALCULATED
M.M.
CHECKED
J.C.

LIGHTING PLAN SHEET - CIRCUIT "A"
STA. 1029+00 TO STA. 1043+00

LAK-90-21.40
ATB-90-0.00





[illegible]

498

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A MAJOR RAHABILITATION OF THE PAVEMENT OF IR 90 FROM PAINE ROAD AT THE 21.50 MILE MARKER EASTWARD 7.71 MILES TO THE ASHTABULA COUNTY LINE. THE PROJECT INCLUDES THE FOUR RAMPS AT THE INTERCHANGE WITH SR 528.

HISTORIC RECORDS

HISTORIC RECORDS CONSIST OF THE ORIGINAL SOIL PROFILES FOR THE PROJECTS: LAK-1-20.03 DATED 12/3/1957, LAK-1-23.25 DATED 12/2/1957 AND LAK/ATB-1-26.51/0.00 REVISED DATED 7/26/57. WE ARE ALSO IN POSSESSION OF THE 2004 33 PAGE SET OF PLANS FOR THE RESURFACING PROJECT (PID 18401). WE REVIEWED THESE MATERIALS BUT DID NOT INDLCUDE ANY OF THE HISTORIC BORINGS IN THIS EXPLORATION.

GEOLOGY

THE EXISTING ALIGNMENT WAS CONSTRUCTED ON THE SLIGHTLY IRREGULAR TERRAIN OF THE LAKE ESCARPMENT MORaine WHERE GLACIAL DRIFT IS RELATIVEYL DEEP OVERLYING SILICEOUS SHALE BEDROCK. CUTS AND FILLS OF SLIGHT TO MODERATE DEPTH WERE UTILIZED TO CONSTRUCT THE EXISTING PROJECT.

RECONNAISSANCE

RECONNAISSANCE CONSISTED OF AN OFFICE REVIEW OF HISTORIC MATERIALS FOLLOWED BY MULTIPLE SITE VISITS CONDUCTED IN SEPTEMBER 2006 BY OGE STAFF.

THE PAVEMENT, WHICH HAD BEEN RESURFACED FAIRLY RECENTLY, APPEARED TO BE IN GOOD CONDITION. ONLY AT STATIONS 953+88, 1042+20 AND 118+11 IN THE EBL AND 838+76 AND 10+50 IN THE WBL WERE CRACKS RUTS OR PATCHES OBSERVED IN THE PAVEMENT.

SUBSURFACE EXPLORATION

EXPLORATORY BORINGS WERE PERFORMED BY TWO DRILLING CREWS PRECEDED BY AN OPERATOR OF A CONCRETE CORE DRILL WHO DRILLED PILOT HOLES AND TOOK PAVEMENT CORES. THE TWO DRILLING CREWS DRILLED A TOTAL OF 114 SUBGRADE BORINGS UTILIZING TRUCK MOUNTED DRILL RIGS BETWEEN OCTOBER 22 AND NOVEMBER 1, 2006. HOLLOW STEM AUGER FLIGHTS WERE NOT USED IN THE DRILLING OF THESE HOLES. RATHER, SPT SAMPLES WERE TAKEN THROUGH THE PILOT HOLE. FOUR SAMPLES WERE TAKEN IN EACH HOLE. FOLLOWING EACH SPT SAMPLE, A 3.5 INCH DIAMTER AUGER WAS INSERTED IN THE HOLE TO CLEAN IT OUT.

EXPLORATION FINDINGS

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINANTLY COMPRISED OF SILT CLAYS (A-6a) AND SANDY SILTS (A-4a) GENERALLY HAVING MOISTURE CONTENTS THAT WERE BELOW THE PLASTIC RANGE.

WET MATERIALS OR CONDITIONS WERE ENCOUNTERED IN THE TOP 6’ AT THE FOLLOWING STATIONS:
EBL STATIONS 810+00, 850+00, 858+00, 882+19, 982+00, 1030+00, 1042+20, 33+00, 73+00 AND 112+00.
WBL STATIONS 765+70, 774+00, 798+00, 29+00 AND 115+00.

PEAT WAS ENCOUNTERED AT WBL STATION 962+00, ORGANIC MATERIAL WAS ENCOUNTERED AT WBL STATIONS 1026+00 AND 1042+00, AND A TRACE OF ORGANIC MATERIAL WAS ENCOUNTERED AT EBL STATIONS 990+00, 88+50 AND 97+00.

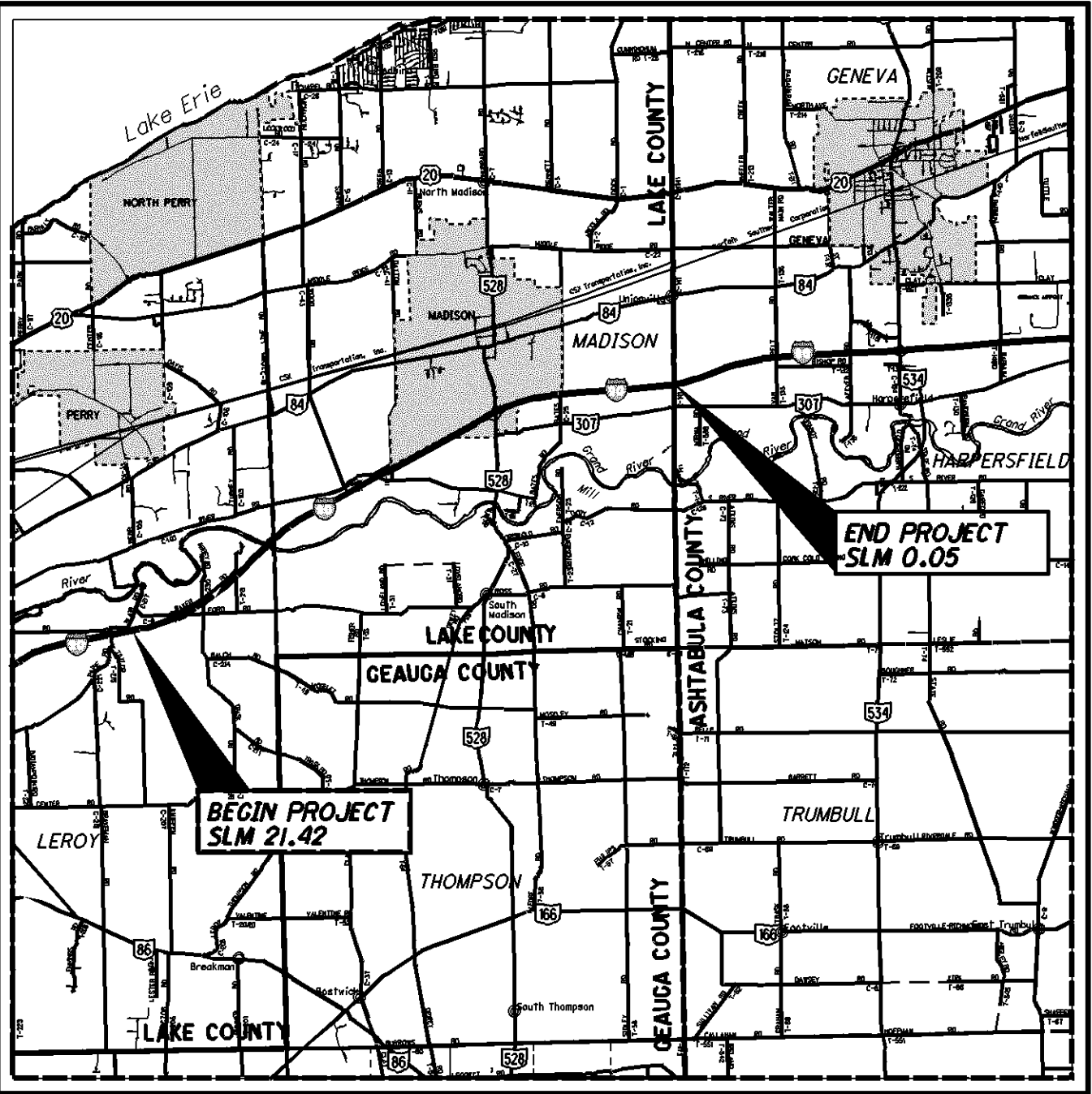
SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR SUBSURFACE INVESTIGATIONS, DATED NOVEMBER 1, 1995. HOWEVER, THE DRAFITNG OF THIS EXPLORATION IS BEING PRESENTED IN ACCORDANCE WITH THE OFFICE OF GEOTECHNICAL ENGINEERING’S SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS MANUAL DATED APRIL 2007.

AVAILABLE INFORMATION

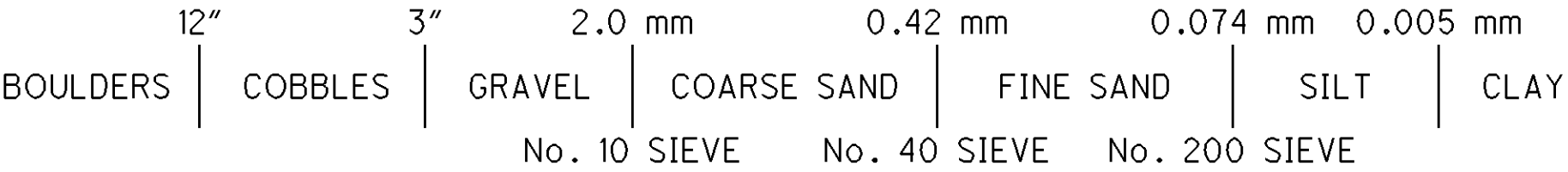
ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR’S OFFICE, THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1600 WEST BROAD STREET OR THE OFFICE OF STRUCTURAL ENGINEERING AT 1980 WEST BROAD STREET.

LEGEND			
	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL
	GRAVEL AND/OR STONE FRAGMENTS	A-1-a (0)	1 1
	GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b (0)	6 -
	FINE SAND	A-3 (0)	4 -
	COARSE AND FINE SAND	A-3a (0)	1 -
	GRAVEL AND/OR ST. FRAGS WITH SAND AND SILT	A-2-4 (0)	10 -
	GR. AND/OR ST. FRAGS WITH SAND, SILT AND CLAY	A-2-6 (0)	5 -
	SANDY SILT	A-4a (5)	114 32
	SILT	A-4b (8)	3 -
	SILT AND CLAY	A-6a (7)	202 50
	SILTY CLAY	A-6b (9)	16 10
	CLAY	A-7-6 (9)	1 -
		TOTAL	363 93
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL	
	BORING LOCATION - PLAN VIEW		
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.		
WC	INDICATES WATER CONTENT IN PERCENT.		
TR	INDICATES TOP OF ROCK ELEVATION.		
X/Y/Z	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST X= NUMBER OF BLOWS FOR FIRST 6 INCHES Y= NUMBER OF BLOWS FOR SECOND 6 INCHES Z= NUMBER OF BLOWS FOR THIRD 6 INCHES		
W—	INDICATES FREE WATER ELEVATION.		
●	INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.		
⊕	INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.		
*	INDICATES A SAMPLE TAKEN WITHIN 3 FT OF PROPOSED GRADE.		
NP	INDICATES A NON-PLASTIC SAMPLE.		



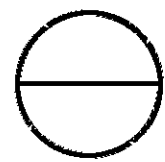
LOCATION MAP
SCALE IN MILES

PARTICLE SIZE DEFINITIONS



INDEX OF SHEETS			
LOCATION FROM STA. TO STA.	PLAN VIEW SHEET	LOCATION FROM STA. TO STA.	PLAN VIEW SHEET
IR 90		IR 90 CONT.	
725+50 738+50	7 8	1047+52 7+79	29 30
738+50 751+50	8 9	7+79 20+78	30 31
751+50 764+50	9 10	20+78 33+78	31 32
764+50 777+50	10 11	33+78 46+79	32 33
777+50 790+50	11 12	46+79 59+79	33 34
790+50 803+50	12 13	59+79 72+79	34 35
803+50 816+50	13 14	72+79 85+79	35 36
816+50 829+50	14 15	85+79 98+79	36 37
829+50 842+53	15 16	98+79 111+79	37 38
842+53 855+53	16 17	111+79 6+16	38
855+53 868+53	17 18	RAMP I	
868+53 881+52	18 19	0+00 12+53.09	39
881+52 930+52	19 20	RAMP J	
930+52 943+52	20 21	0+00 10+50	40
943+52 956+52	21 22	10+50 14+98.02	41
956+52 969+52	22 23	RAMP K	
969+52 982+52	23 24	0+00 7+04.88	42
982+52 995+52	24 25	RAMP L	
995+52 1008+52	25 26	0+00 11+50	43
1008+52 1021+52	26 27	11+50 13+68.60	44
1021+52 1034+52	27 28		
1034+52 1047+52	28		

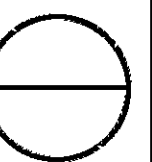
RECON. - MRS, MC & DN 09/06
DRILLING - DML & KAM 10/22 - 11/01/06
DRAWN - JAG 12/08
REVIEWED - MRS 12/08



SUMMARY OF SOIL TEST DATA														SUMMARY OF SOIL TEST DATA														DRAWN JAG	CHECKED MPS
I.R. 90														I.R. 90 (CONT.)															
EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	OHIO CLASS	EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI		
B-001 STA. 730+00, 63' RT.	01.50-03.00		SS-1	78	15	11	11	37	26	24	17	7	19	A-4a (6) *	B-015 STA. 786+00, 69' RT.	01.50-03.00		SS-1	100	17	7	9	35	32	30	18	12	17	A-6a (7) *
	03.00-04.50		SS-2	100	11	8	12	37	32	27	17	10	14	A-4a (7)		03.00-04.50		SS-2	100	19	8	10	33	30	29	18	11	16	A-6a (6)
	04.50-06.00		SS-3	100	15	8	12	34	31	26	17	9	17	A-4a (6)		04.50-06.00		SS-3	100	24	8	10	30	28	31	19	12	15	A-6a (5)
	06.00-07.50		SS-4	100	17	9	12	34	28	26	17	9	17	A-4a (5)		06.00-07.50		SS-4	100	14	5	10	35	36	32	20	12	18	A-6a (8)
B-002 STA. 734+00, 62' LT.	01.50-03.00		SS-1	67	41	11	12	22	14	26	16	10	16	A-4a (0) *	B-016 STA. 790+00, 63' LT.	01.50-03.00		SS-1	67	15	5	10	43	27	29	20	9	20	A-4a (7) *
	03.00-04.50		SS-2	100	20	7	12	35	26	29	17	12	12	A-6a (6)		03.00-04.50		SS-2	100	13	6	11	39	31	30	18	12	18	A-6a (8) *
	04.50-06.00		SS-3	100				SAME AS SS-2					16	A-6a (VISUAL)		04.50-06.00		SS-3	100	7	8	12	42	31	31	19	12	16	A-6a (8)
	06.00-07.50		SS-4	100				SAME AS SS-2					16	A-6a (VISUAL)		06.00-07.50		SS-4	100				SAME AS SS-3				15	A-6a (VISUAL)	
B-003 STA. 738+00, 69' RT.	01.00-02.50		SS-1	0	18	9	16	28	29	35	19	16	22	A-6b (7) *	B-017 STA. 794+25, 63' RT.	01.50-03.00		SS-1	80	20	3	8	37	32	31	20	11	18	A-6a (7) *
	02.50-04.00		SS-2	0	15	5	11	37	32	34	19	15	14	A-6a (9)		03.00-04.50		SS-2	87	11	6	10	38	35	32	19	13	17	A-6a (9)
	04.00-05.50		SS-3	0	10	10	15	38	27	28	18	10	15	A-4a (6)		04.50-06.00		SS-3	100	19	6	10	36	29	30	19	11	15	A-6a (6)
	05.50-07.00		SS-4	0	20	15	16	30	19	25	17	8	13	A-4a (3)		06.00-07.50		SS-4	100	21	5	9	32	33	35	21	14	18	A-6a (8)
B-004 STA. 742+00, 64' LT.	01.50-03.00		SS-1	89	18	7	11	33	31	28	18	10	15	A-4a (6) *	B-018 STA. 798+00, 69' LT.	01.50-03.00		SS-1	100	41	9	10	24	16	25	16	9	17	A-4a (1) *
	03.00-04.50		SS-2	100	21	7	12	31	29	25	17	8	13	A-4a (5)		03.00-04.50		SS-2	100	15	8	11	38	28	27	18	9	14	A-4a (6) *
	04.50-06.00		SS-3	100	17	7	12	34	30	29	17	12	12	A-6a (7)		04.50-06.00		SS-3	100				SAME AS SS-2				14	A-4a (VISUAL)	
	06.00-07.50		SS-4	100	22	5	11	34	28	29	19	10	20	A-4a (5)		06.00-07.50		SS-4	100				SAME AS SS-2				15	A-4a (VISUAL)	
B-005 STA. 746+00, 62' RT.	01.50-03.00		SS-1	78	21	11	11	28	29	26	16	10	18	A-4a (4) *	B-019 STA. 802+00, 63' RT.	01.50-03.00		SS-1	67	26	7	10	32	25	28	18	10	15	A-4a (4) *
	03.00-04.50		SS-2	100	11	5	10	34	40	30	18	12	20	A-6a (9)		03.00-04.50		SS-2	100	17	4	8	40	31	34	20	14	19	A-6a (9)
	04.50-06.00		SS-3	100	12	9	12	35	32	28	18	10	17	A-4a (6)		04.50-06.00		SS-3	100	16	11	12	31	30	33	20	13	16	A-6a (6)
	06.00-07.50		SS-4	100	16	7	11	34	32	29	18	11	16	A-6a (7)		06.00-07.50		SS-4	100	15	7	4	43	31	37	23	14	16	A-6a (9)
B-006 STA. 750+00, 68' LT.	01.50-03.00		SS-1	100	23	10	11	31	25	26	16	10	13	A-4a (4) *	B-020 STA. 806+00, 62' LT.	01.50-03.00		SS-1	89	18	9	11	33	29	27	17	10	15	A-4a (5) *
	03.00-04.50		SS-2	100	28	5	9	33	25	26	16	10	13	A-4a (5)		03.00-04.50		SS-2	100	14	5	10	36	35	30	19	11	18	A-6a (8) *
	04.50-06.00		SS-3	100				SAME AS SS-2					12	A-4a (VISUAL)		04.50-06.00		SS-3	100	16	7	10	36	31	28	18	10	15	A-4a (6)
	06.00-07.50		SS-4	100				SAME AS SS-2					16	A-4a (VISUAL)		06.00-07.50		SS-4	100				SAME AS SS-3				13	A-4a (VISUAL)	
B-007 STA. 754+00, 64' RT.	01.30-02.80		SS-1	100	16	5	10	36	33	32	19	13	17	A-6a (8) *	B-021 STA. 810+00, 69' RT.	01.50-03.00		SS-1	0	24	8	5	33	30	31	19	12	24	A-6a (6) *
	02.80-04.30		SS-2	100	15	6	8	38	33	31	19	12	17	A-6a (8) *		03.00-04.50		SS-2	0	40	19	9	19	13	26	16	10	19	A-2-4 (0)
	04.30-05.80		SS-3	100	17	7	9	38	29	30	18	12	18	A-6a (7)		04.50-06.00		SS-3	33	50	6	4	21	19	31	17	14	16	A-6a (2)
	05.80-07.30		SS-4	100	20	5	9	39	27	29	19	10	16	A-4a (6)		06.00-07.50		SS-4	67	31	6	5	28	30	35	21	14	15	A-6a (6)
B-008 STA. 757+40, 64' LT.	01.50-03.00		SS-1	78	19	6	9	34	32	25	16	9	15	A-4a (6) *	B-022 STA. 814+00, 66' LT.	01.50-03.00		SS-1	53	20	7	9	35	29	29	16	13	15	A-6a (7)
	03.00-04.50		SS-2	100	14	6	10	35	35	28	16	12	16	A-6a (8) *		03.00-04.50		SS-2	100	22	7	9	34	28	31	18	13	16	A-6a (7)
	04.50-06.00		SS-3	100				SAME AS SS-2					16	A-6a (VISUAL)		04.50-06.00		SS-3	100	20	7	9	36	28	30	17	13	19	A-6a (7)
	06.00-07.50		SS-4	100				SAME AS SS-2					14	A-6a (VISUAL)		06.00-07.50		SS-4	100	22	5	10	35	28	33	18	15	17	A-6a (8)
B-009 STA. 762+64, 69' RT.	01.00-02.50		SS-1	100	6	7	19	33	35	25	16	9	17	A-4a (7) *	B-023 STA. 818+00, 63' RT.	01.50-03.00		SS-1											

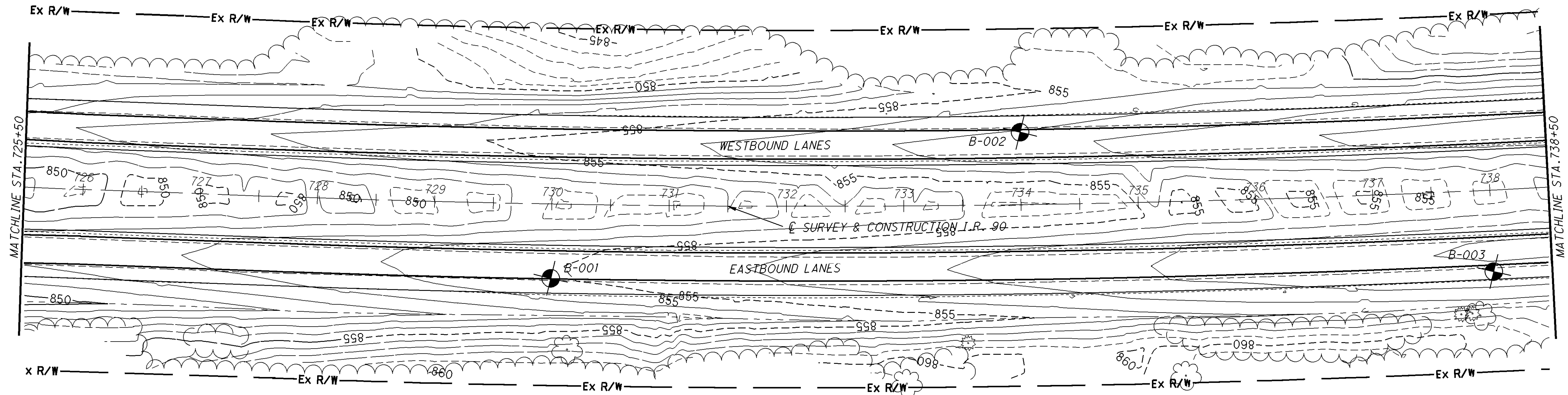
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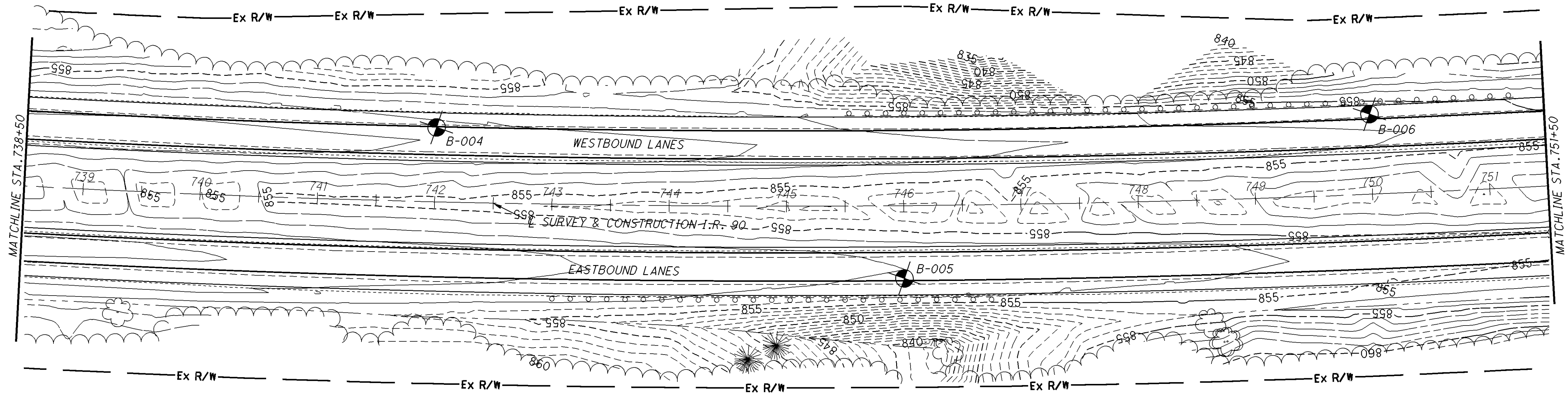
SUMMARY OF SOIL TEST DATA														SUMMARY OF SOIL TEST DATA														DRAWN JAG	CHECKED MRS	SUBGRADE EXPLORATION SUMMARY OF SOIL TEST DATA
I.R. 90 (CONT.)														I.R. 90 (CONT.)																
EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	OHIO CLASS	EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	OHIO CLASS	
B-029 STA. 850+00, 62' RT.	01.40-02.90	SS-1	44	24	24	20	20	12	23	16	7	15	A-2-4 (0) *	B-043	01.50-03.00	SS-1	67	23	7	8	31	31	31	19	12	16	A-6a (6) *			
	02.90-04.40	SS-2	67	46	17	13	15	9	23	16	7	8	A-2-4 (0) *	STA. 942+08, 62 RT.	03.00-04.50	SS-2	67	22	5	7	35	31	30	19	11	12	A-6a (7)			
	04.40-05.90	SS-3	100	0	2	24	53	21	20	17	3	24	A-4b (8)	04.50-06.00	SS-3	100				SAME AS SS-2						15	A-6a (VISUAL)			
	05.90-07.40	SS-4	89	24	19	12	25	20	24	16	8	16	A-4a (2)	06.00-07.50	SS-4	0				SAME AS SS-2						16	A-6a (VISUAL)			
B-030 STA. 845+90, 40' LT.	01.50-03.00	SS-1	67	24	11	10	30	25	27	16	11	12	A-6a (4)	B-044	01.50-03.00	SS-1	56	9	6	9	38	38	30	19	11	16	A-6a (8) *			
	03.00-04.50	SS-2	100	36	19	6	20	19	34	18	16	11	A-6b (2)	STA. 938+00, 63' LT.	03.00-04.50	SS-2	100	7	6	8	37	42	30	28	2	15	A-4a (8)			
	04.50-06.00	SS-3	100	14	9	14	37	26	28	17	11	15	A-6a (6)	04.50-06.00	SS-3	100	10	6	8	36	40	29	18	11	15	A-6a (8)				
	06.00-07.50	SS-4	100				SAME AS SS-3					15	A-6a (VISUAL)	06.00-07.50	SS-4	100	14	6	10	34	36	28	18	10	15	A-4a (7)				
B-031 STA. 858+00, 62' RT.	01.50-03.00	SS-1	53	39	21	10	18	12	28	17	11	14	A-2-6 (0) *	B-045	01.00-02.50	SS-1	67	11	9	11	33	36	28	18	10	14	A-4a (7) *			
	03.00-04.50	SS-2	100	6	11	16	40	27	27	19	8	16	A-4a (6)	STA. 950+00, 68' RT.	02.50-04.00	SS-2	78	16	11	13	33	27	29	19	10	18	A-4a (5) *			
	04.50-06.00	SS-3	100	15	11	16	35	23	24	16	8	14	A-4a (5)	04.00-05.50	SS-3	100				SAME AS SS-2						17	A-4a (VISUAL)			
	06.00-07.50	SS-4	100				SAME AS SS-3					13	A-4a (VISUAL)	05.50-07.00	SS-4	100				SAME AS SS-2						15	A-4a (VISUAL)			
B-032 STA. 854+00, 72' LT.	01.50-03.00	SS-1	44	23	13	11	29	24	24	16	8	8	A-4a (4)	B-046	01.50-03.00	SS-1	53	29	16	8	25	22	34	19	15	19	A-6a (4) *			
	03.00-04.50	SS-2	83	13	10	13	35	29	24	17	7	13	A-4a (6)	STA. 946+00, 64' LT.	03.00-04.50	SS-2	100	21	5	8	33	33	35	19	16	16	A-6b (9)			
	04.50-06.00	SS-3	56	12	11	13	37	27	23	15	8	14	A-4a (6)	04.50-06.00	SS-3	100				SAME AS SS-2						16	A-6b (VISUAL)			
	06.00-07.50	SS-4	47	16	11	13	34	26	23	16	7	15	A-4a (5)	06.00-07.50	SS-4	100				SAME AS SS-2						16	A-6b (VISUAL)			
B-033 STA. 866+00, 70' RT.	00.80-02.30	SS-1	89	14	9	12	35	30	29	17	12	14	A-6a (7) *	B-047	01.00-02.50	SS-1	67	9	7	10	36	38	27	18	9	16	A-4a (8) *			
	02.30-03.80	SS-2	100	9	9	14	34	34	27	17	10	22	A-4a (7) *	STA. 953+88, 61' RT.	02.50-04.00	SS-2	83	11	6	10	33	40	28	19	9	19	A-4a (8) *			
	03.80-05.30	SS-3	100	17	4	9	38	32	30	19	11	21	A-6a (7)	04.00-05.50	SS-3	100	7	10	12	36	35	26	17	9	16	A-4a (7)				
	05.30-06.80	SS-4	83	17	8	14	32	29	27	17	10	20	A-4a (5)	05.50-07.00	SS-4	94	13	10	11	32	34	26	16	10	16	A-4a (6)				
B-034 STA. 862+00, 64' LT.	01.50-03.00	SS-1	100	23	10	11	32	24	29	17	12	15	A-6a (5) *	B-048	01.50-03.00	SS-1	89	9	9	12	37	33	28	18	10	12	A-4a (7) *			
	03.00-04.50	SS-2	100	18	8	12	37	25	30	18	12	14	A-6a (6)	STA. 954+00, 72' LT.	03.00-04.50	SS-2	100				SAME AS SS-1						14	A-4a (VISUAL)		
	04.50-06.00	SS-3	100	16	11	18	34	21	25	16	9	16	A-4a (4)	04.50-06.00	SS-3	100				SAME AS SS-1						13	A-4a (VISUAL)			
	06.00-07.50	SS-4	100	22	19	10	29	20	32	18	14	17	A-6a (4)	06.00-07.50	SS-4	100	20	11	9	30	30	30	19	11	13	A-6a (5)				
B-035 STA. 874+00, 62' RT.	01.50-03.00	SS-1	93	25	10	9	28	28	31	18	13	15	A-6a (5) *	B-049	01.50-03.00	SS-1	67	9	7	9	38	37	33	20	13	19	A-6a (9) *			
	03.00-04.50	SS-2	100	18	9	11	33	29	29	19	10	14	A-4a (5)	STA. 959+00, 62' RT.	03.00-04.50	SS-2	100	20	13	10	31	26	29	18	11	16	A-6a (5) *			
	04.50-06.00	SS-3	100				SAME AS SS-2					18	A-4a (VISUAL)	04.50-06.00	SS-3	100	28	6	8	31	27	30	19	11	14	A-6a (5)				
	06.00-07.50	SS-4	100				SAME AS SS-2					14	A-4a (VISUAL)	06.00-07.50	SS-4	100	23	7	9	31	30	30	19	11	15	A-6a (6)				
B-036 STA. 869+80, 64' LT.	01.50-03.00	SS-1	67	13	11	15	35	26	23	17	6	12	A-4a (5) *	B-050	01.50-03.00	SS-1	67	20	7	9	33	31	30	17	13	14	A-6a (7) *			
	03.00-04.50	SS-2	83	21	14	12	32	21	24	17	7	16	A-4a (4)	STA. 962+00, 64' LT.	03.00-04.50	SS-2	67	20	4	8	34	34	33	18	15	17	A-6a (9)			
	04.50-06.00	SS-3	94	13	9	12	34	32	29	19	10	16	A-4a (6)	04.50-06.00	SS-3	67	22	4	8	42	24	41	25	16	-	A-7-6 (9)				
	06.00-07.50	SS-4	100	12	8	12	34	34	29	18	11	15	A-6a (7)	06.00-07.50	SS-4	100	24	2	7	36	31	39	22	17	26	A-6b (9)				
B-037 STA. 882+19, 62' RT.	01.50-03.00	SS-1	78	10	7	11	36	36	29	18	11	17	A-6a (8) *	B-051	01.50-03.00	SS-1	100	31	26	11	19	13	26	16	10	10	A-2-4 (0) *			
	03.00-04.50	SS-2	89	16	9	11	31	33	30	19	11	20	A-6a (6)	STA. 966+00, 68' RT.	03.00-04.50	SS-2	80	59	16	7	11	7	25	16	9	12	A-2-4 (0)			
	04.50-06.00	SS-3	56	9	14	13	33	31	-	18	-	24	A-4a (VISUAL)	04.50-06.00	SS-3	67	8	6	9	40	37	31	19	12	17	A-6a (9)				
	06.00-07.50	SS-4	33	15	15	12	29	29	-	17	-	17	A-4a (VISUAL)	06.00-07.50	SS-4	100	22	6	8	34	30	30	19	11	18	A-6a (6)				
B-038 STA. 878+00, 70' LT.	01.50-03.00	SS-1	100	23	14	11	29	23	27	16	11	16	A-6a (4) *	B-052	01.50-03.00	SS-1	67	0	8	10	41	41	29	18	11	16				

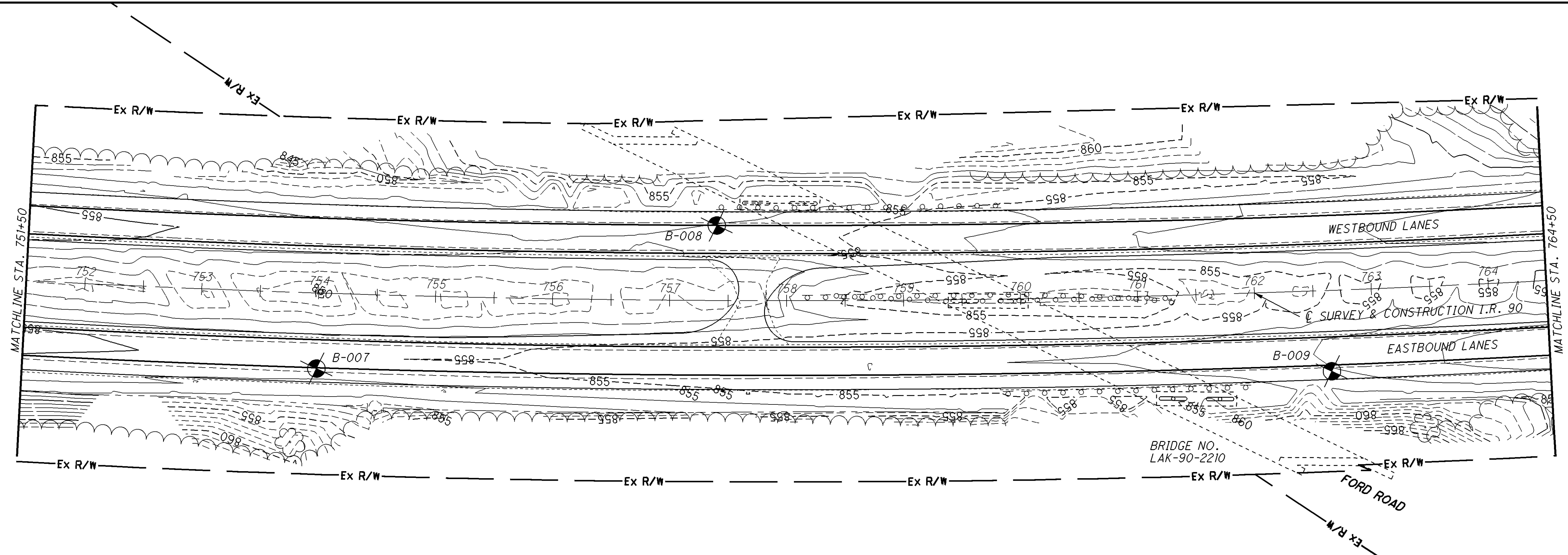
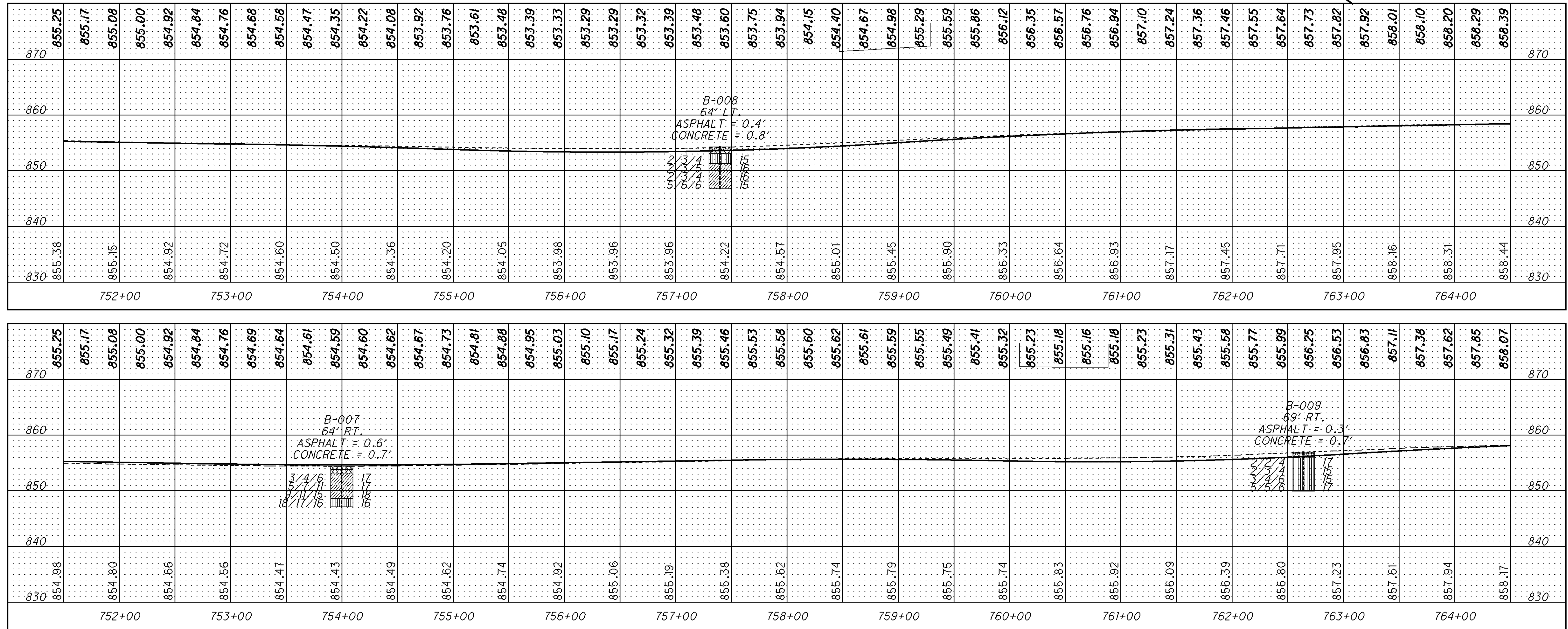
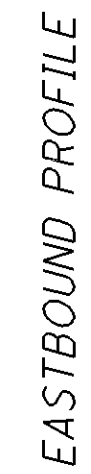
SUMMARY OF SOIL TEST DATA														SUMMARY OF SOIL TEST DATA														DRAWN JAG	CHECKED MPS		
I.R. 90 (CONT.)														I.R. 90 (CONT.)																	
EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	OHIO CLASS	EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI			% WC	OHIO CLASS
B-057 STA. 990+00, 69' RT.	01.50-03.00	SS-1	78	14	6	8	31	41	33	20	13	15	A-6a (9) *	B-071	01.50-03.00	SS-1	89	25	26	12	22	15	24	17	7	9	A-4a (0) *	SUBGRADE EXPLORATION SUMMARY OF SOIL TEST DATA	LAK-90-21.40 ATB-90-0.00	4 / 44	
	03.00-04.50	SS-2	100	54	3	4	16	23	31	20	11	20	A-6a (1)	STA. 1046+20, 70' RT.	03.00-04.50	SS-2	78	29	31	14	19	7	23	17	6	8	A-2-4 (0)				
	04.50-06.00	SS-3	94	9	5	7	33	46	33	21	12	16	A-6a (9)	04.50-06.00	SS-3	89	24	39	12	18	7	22	16	6	9	A-1-b (0)					
	06.00-07.50	SS-4	83	6	7	10	34	43	29	19	10	16	A-4a (8)	06.00-07.50	SS-4	78	54	8	5	15	18	28	17	11	18	A-2-6 (0)					
B-058 STA. 993+80, 63' LT.	01.50-03.00	SS-1	80	21	10	9	32	28	34	18	16	20	A-6b (7) *	B-072	01.50-03.00	SS-1	89	18	5	8	34	35	34	19	15	18	A-6a (9) *				
	03.00-04.50	SS-2	100	18	5	8	31	38	35	20	15	17	A-6a (9)	STA. 1050+29, 64' LT.	03.00-04.50	SS-2	100	10	5	10	37	38	35	19	16	19	A-6b (10) *				
	04.50-06.00	SS-3	100	13	6	9	37	35	33	18	15	15	A-6a (9)	04.50-06.00	SS-3	100				SAME AS SS-2					18	A-6b (VISUAL)					
	06.00-07.50	SS-4	100				SAME AS SS-3				15	A-6a (VISUAL)	06.00-07.50	SS-4	100				SAME AS SS-2					17	A-6b (VISUAL)						
B-059 STA. 998+00, 62' RT.	01.50-03.00	SS-1	67	23	25	15	23	14	26	17	9	17	A-4a (0) *	B-074a	01.50-03.00	SS-1	78	3	6	10	39	42	32	20	12	19	A-6a (9) *				
	03.00-04.50	SS-2	100	17	6	8	36	33	30	19	11	13	A-6a (7)	STA. 10+50, 74' LT.	03.00-04.50	SS-2	100	11	6	10	36	37	32	19	13	16	A-6a (9)				
	04.50-06.00	SS-3	100				SAME AS SS-2				14	A-6a (VISUAL)	04.50-06.00	SS-3	100	7	7	9	39	38	31	19	12	16	A-6a (9)						
	06.00-07.50	SS-4	100				SAME AS SS-2				15	A-6a (VISUAL)	06.00-07.50	SS-4	100	18	5	8	36	33	30	19	11	14	A-6a (7)						
B-060 STA. 1002+00, 70' LT.	01.50-03.00	SS-1	100	34	15	9	22	20	28	18	10	19	A-4a (1) *	B-075	01.50-03.00	SS-1	67	29	17	9	22	23	29	18	11	12	A-6a (2) *				
	03.00-04.50	SS-2	100	16	4	6	32	42	36	20	16	18	A-6b (10)	STA. 9+00, 70' RT.	03.00-04.50	SS-2	100	9	7	10	34	40	32	20	12	22	A-6a (9) *				
	04.50-06.00	SS-3	100				SAME AS SS-2				17	A-6b (VISUAL)	04.50-06.00	SS-3	89				SAME AS SS-2					22	A-6a (VISUAL)						
	06.00-07.50	SS-4	100				SAME AS SS-2				14	A-6b (VISUAL)	06.00-07.50	SS-4	100				SAME AS SS-2					18	A-6a (VISUAL)						
B-061 STA. 1006+00, 63' RT.	01.50-03.00	SS-1	56	12	8	10	32	38	28	18	10	16	A-4a (7) *	B-076	01.50-03.00	SS-1	53	18	11	13	32	26	28	17	11	19	A-6a (5) *				
	03.00-04.50	SS-2	78	8	6	10	35	41	30	18	12	17	A-6a (9)	STA. 13+00, 75' LT.	03.00-04.50	SS-2	100	7	4	9	41	39	33	19	14	22	A-6a (10)				
	04.50-06.00	SS-3	94	11	7	8	40	34	29	19	10	20	A-4a (8)	04.50-06.00	SS-3	100	16	4	8	33	39	36	21	15	17	A-6a (9)					
	06.00-07.50	SS-4	100	20	7	9	34	30	29	18	11	16	A-6a (6)	06.00-07.50	SS-4	100				SAME AS SS-3					19	A-6a (VISUAL)					
B-062 STA. 1009+80, 63' LT.	01.50-03.00	SS-1	80	5	7	9	42	37	29	16	13	15	A-6a (9) *	B-077	01.50-03.00	SS-1	78	32	28	15	18	7	22	17	5	11	A-1-b (0) *				
	03.00-04.50	SS-2	100	9	7	11	39	34	33	19	14	17	A-6a (9)	STA. 17+00, 70' RT.	03.00-04.50	SS-2	33	56	10	6	14	14	29	18	11	9	A-2-6 (0)				
	04.50-06.00	SS-3	100				SAME AS SS-2				15	A-6a (VISUAL)	04.50-06.00	SS-3	78	5	4	9	38	44	36	21	15	23	A-6a (10)						
	06.00-07.50	SS-4	100				SAME AS SS-2				15	A-6a (VISUAL)	06.00-07.50	SS-4	89	13	5	10	35	37	33	19	14	22	A-6a (9)						
B-063 STA. 1014+00, 68' RT.	01.50-03.00	SS-1	80	21	9	9	31	30	29	19	10	11	A-4a (5) *	B-078	01.50-03.00	SS-1	67	8	8	11	37	36	31	18	13	18	A-6a (9) *				
	03.00-04.50	SS-2	100	19	5	8	35	33	30	18	12	15	A-6a (7)	STA. 20+50, 64' LT.	03.00-04.50	SS-2	44	11	7	10	37	35	31	19	12	23	A-6a (8)				
	04.50-06.00	SS-3	100				SAME AS SS-2				15	A-6a (VISUAL)	04.50-06.00	SS-3	100	23	4	9	32	32	33	20	13	18	A-6a (7)						
	06.00-07.50	SS-4	100				SAME AS SS-2				14	A-6a (VISUAL)	06.00-07.50	SS-4	100	17	5	9	35	34	33	19	14	19	A-6a (8)						
B-064 STA. 1018+00, 62' LT.	01.50-03.00	SS-1	89	16	2	2	38	42	32	20	12	18	A-6a (9) *	B-079	01.50-03.00	SS-1	40	24	6	8	30	32	31	18	13	17	A-6a (7) *				
	03.00-04.50	SS-2	100	19	3	3	32	43	33	21	12	19	A-6a (9)	STA. 25+00, 62 RT.	03.00-04.50	SS-2	80	29	7	18	29	17	23	17	6	11	A-4a (2)				
	04.50-06.00	SS-3	100	23	9	7	27	34	30	19	11	22	A-6a (6)	04.50-06.00	SS-3	100	17	10	13	41	19	27	20	7	18	A-4a (5)					
	06.00-07.50	SS-4	100	28	7	8	28	29	29	19	10	30	A-4a (4)	06.00-07.50	SS-4	100	17	22	17	29	15	25	18	7	17	A-4a (2)					
B-065 STA. 1022+00, 62' RT.	01.50-03.00	SS-1	67	20	3	7	34	36	34	19	15	14	A-6a (9) *	B-080	01.50-03.00	SS-1	100	17	24	47	11	1	NP	NP	NP	11	A-3a (0) *				
	03.00-04.50	SS-2	80	16	4	8	35	37	37	20	17	16	A-6b (10)	STA. 29+00, 68' LT.	03.00-04.50	SS-2	100	18	26	50	6	0	NP	NP	NP	7	A-3 (0)				
	04.50-06.00	SS-3	67				SAME AS SS-2				14	A-6b (VISUAL)	04.50-06.00	SS-3	100	52	13	23	9	3	NP	NP	NP	23	A-1-b (0)						
	06.00-07.50	SS-4	100				SAME AS SS-2				17	A-6b (VISUAL)	06.00-07.50	SS-4	100	18	4	8	34	36	35	20	15	17	A-6a (9)						
B-066 STA. 1026+00, 69' LT.	01.50-03.00	SS-1	80	16	7	10	36	31	30	18	12	17	A-6a (7) *	B-081	01.50-03.00	SS-1	56	13	26	17	25	19	24	16	8	21	A-4a (2) *				
	03.00-04.50	SS-2	100	13	6	10	40	31	30	18	12	16	A-6a (8)	STA. 33+00, 66' RT.	03.00-04.50	SS-2	61	8	3	9	39	41	39	21	18	22	A-6b (11)				
	04.50-06.00	SS-3	100	17	5	9	39	30	33	20	13	17	A-6a (8)	04.50-06.00	SS-3	89	8	5	8	35	44	32									

SUBGRADE EXPLORATION SUMMARY OF SOIL TEST DATA

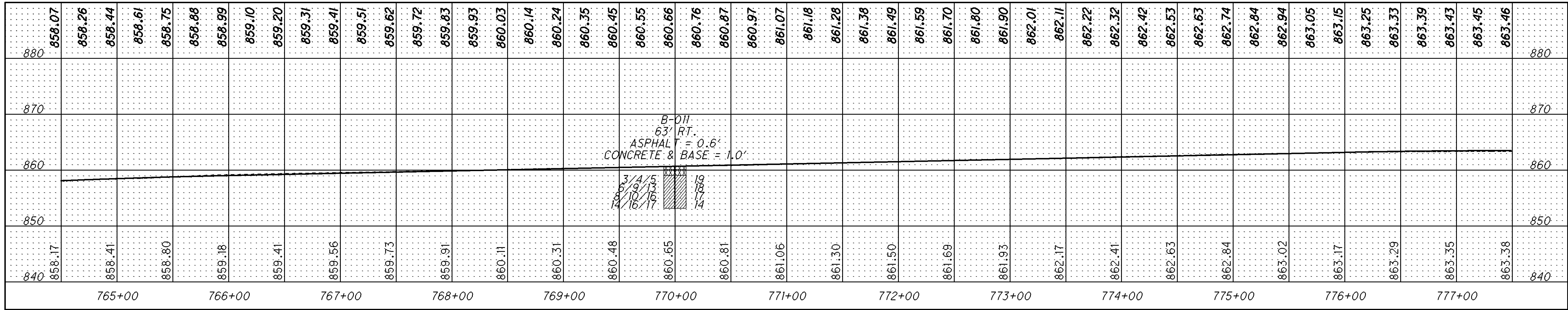
SUMMARY OF SOIL TEST DATA														
EXPLORATION NO., STATION & OFFSET	RAMP K													
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B-112 STA. 0+90, 3' LT.	01.50-03.00		SS-1	67	53	12	9	16	10	24	15	9	9	A-2-4 (0) *
	03.00-04.50		SS-2	100	26	5	8	31	30	30	19	11	19	A-6a (6)
	04.50-06.00		SS-3	67	9	7	9	36	39	29	17	12	15	A-6a (9)
	06.00-07.50		SS-4	100				SAME AS SS-3					20	A-6a (VISUAL)
B-113 STA. 4+50, 3' RT.	01.50-03.00		SS-1	67	31	18	11	22	18	27	16	11	15	A-6a (1) *
	03.00-04.50		SS-2	100	0	6	11	42	41	31	18	13	19	A-6a (9) *
	04.50-06.00		SS-3	67	33	5	8	27	27	31	18	13	15	A-6a (5)
	06.00-07.50		SS-4	100	11	4	9	35	41	33	18	15	14	A-6a (10)
SUMMARY OF SOIL TEST DATA														
EXPLORATION NO., STATION & OFFSET	RAMP L													
	FROM	TO	SAMPLE TYPE	% REC	% AGG	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	OHIO CLASS
B-114 STA. 0+85, 3' LT.	01.50-03.00		SS-1	67	47	17	11	17	8	23	15	8	13	A-2-4 (0) *
	03.00-04.50		SS-2	67	19	7	9	33	32	30	18	12	20	A-6a (7)
	04.50-06.00		SS-3	67	19	7	9	35	30	30	17	13	19	A-6a (7)
	06.00-07.50		SS-4	33	20	7	9	32	32	29	18	11	16	A-6a (6)
B-115 STA. 4+50, 3' LT.	01.50-03.00		SS-1	53	12	5	10	39	34	34	18	16	20	A-6b (10) *
	03.00-04.50		SS-2	67	12	5	9	35	39	33	20	13	16	A-6a (9)
	04.50-06.00		SS-3	80				SAME AS SS-2					15	A-6a (VISUAL)
	06.00-07.50		SS-4	100				SAME AS SS-2					15	A-6a (VISUAL)
B-116 STA. 13+00, 3' RT.	01.50-03.00		SS-1	100	19	14	11	29	27	27	17	10	8	A-4a (4)
	03.00-04.50		SS-2	100	15	5	8	34	38	31	18	13	15	A-6a (9)
	04.50-06.00		SS-3	100				SAME AS SS-2					15	A-6a (VISUAL)
	06.00-07.50		SS-4	100				SAME AS SS-2					17	A-6a (VISUAL)

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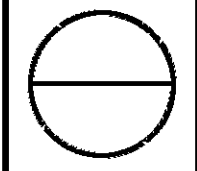
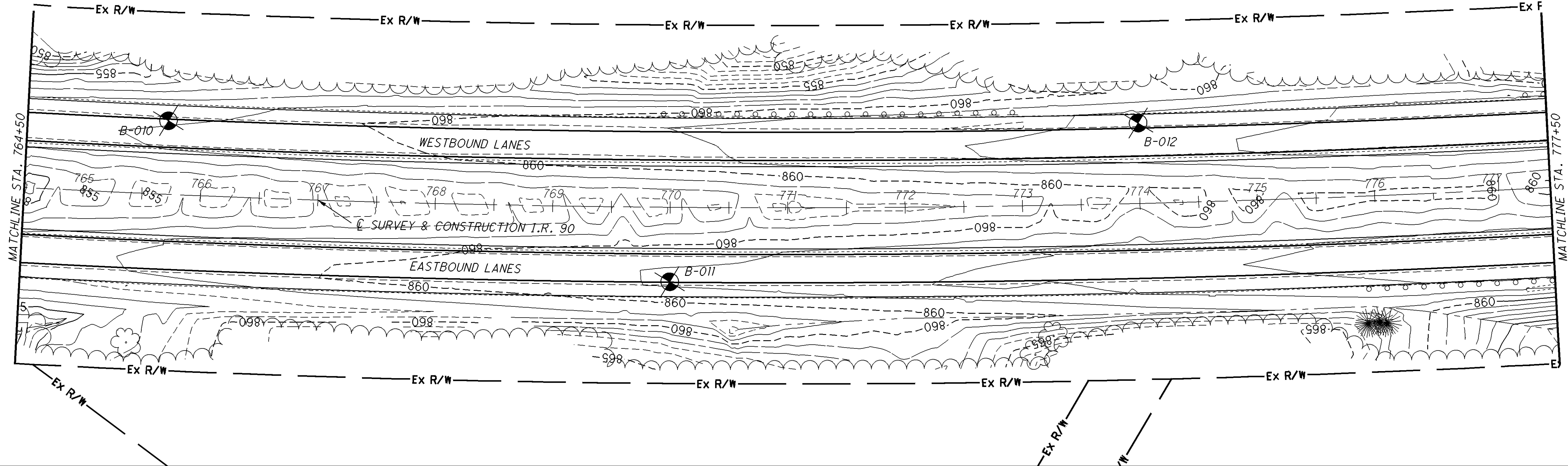
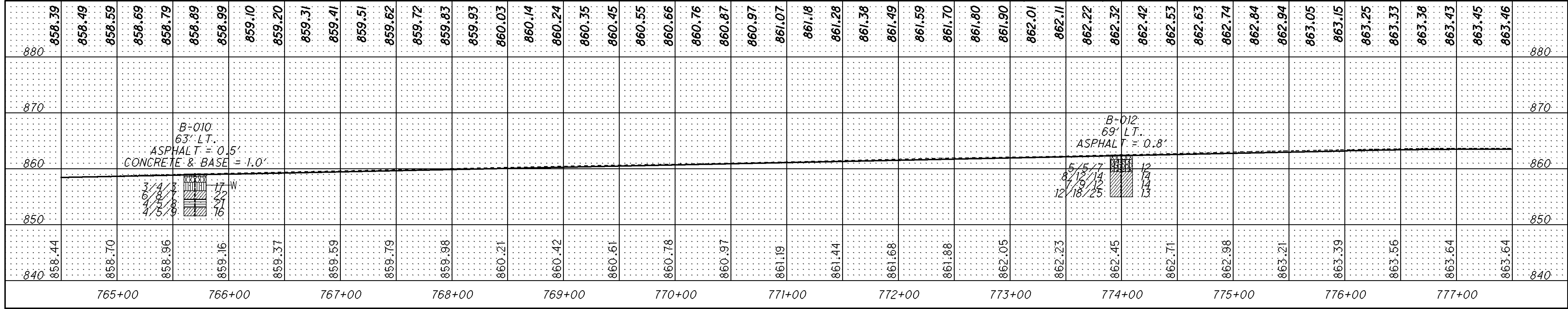
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EASTBOUND PROFILE



WESTBOUND PROFILE

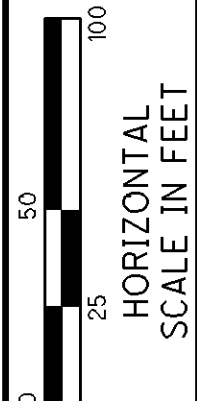


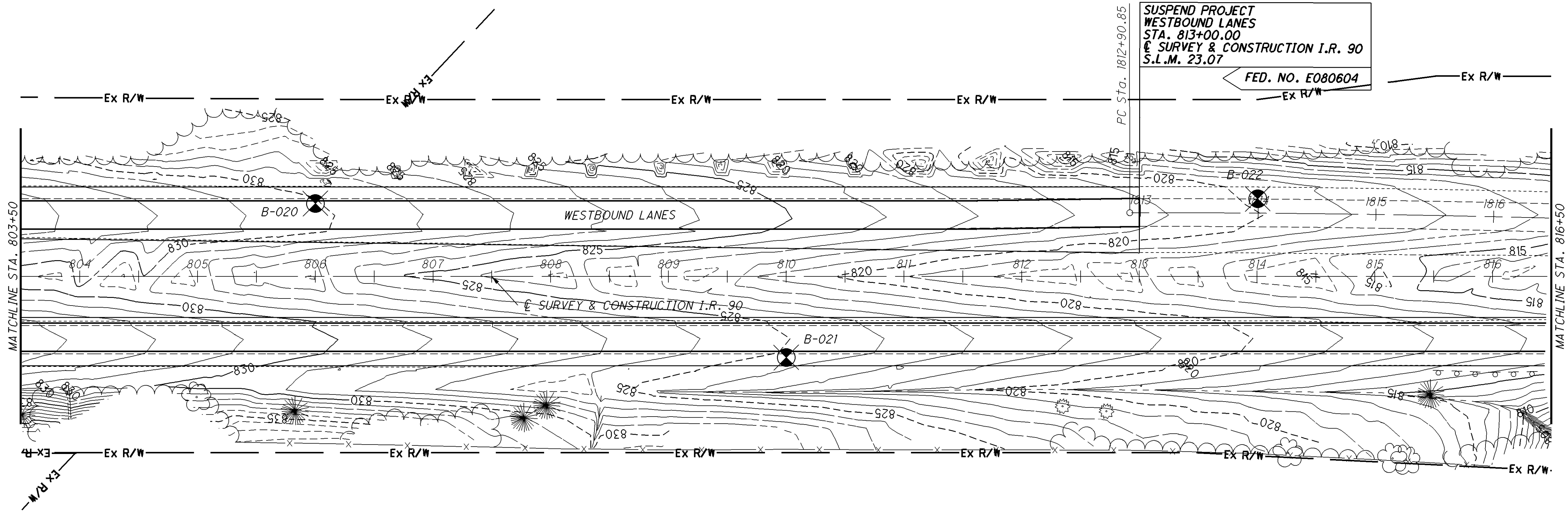
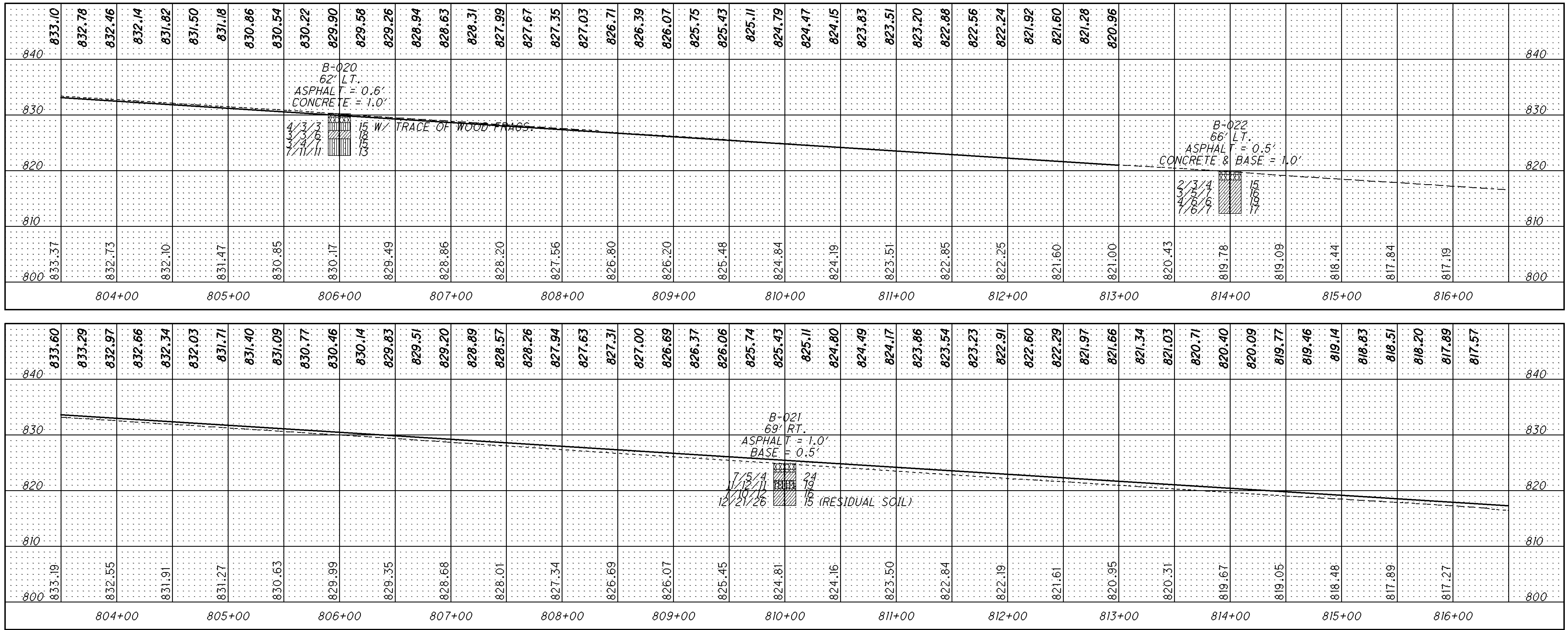
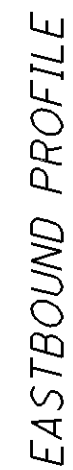
LAK-90-21.40
ATB-90-0.00

SUBGRADE EXPLORATION
STA.764+50 TO STA.777+50

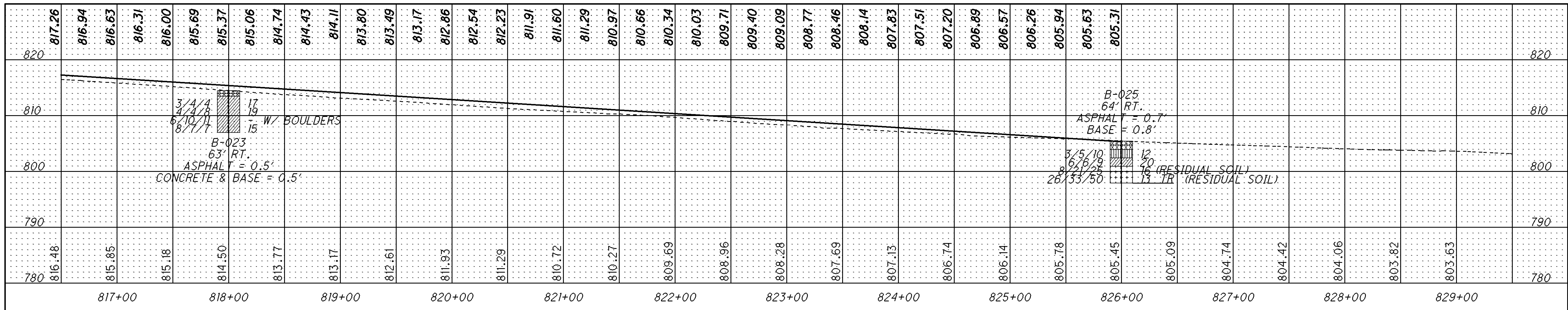
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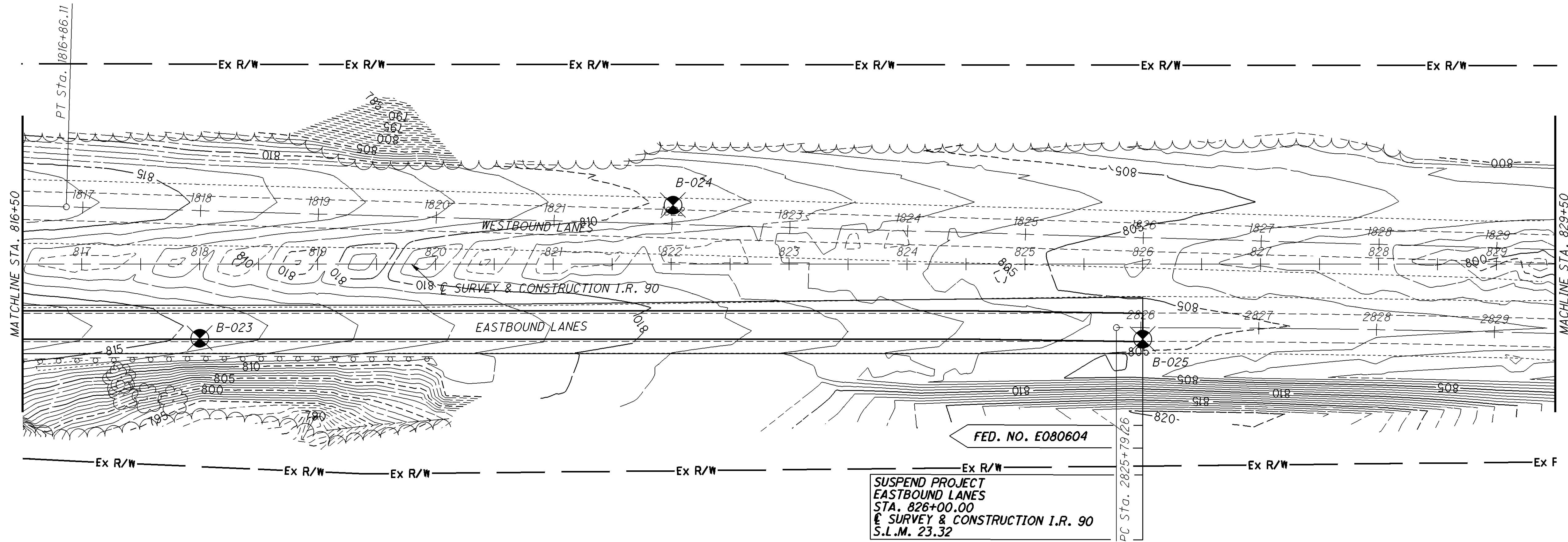
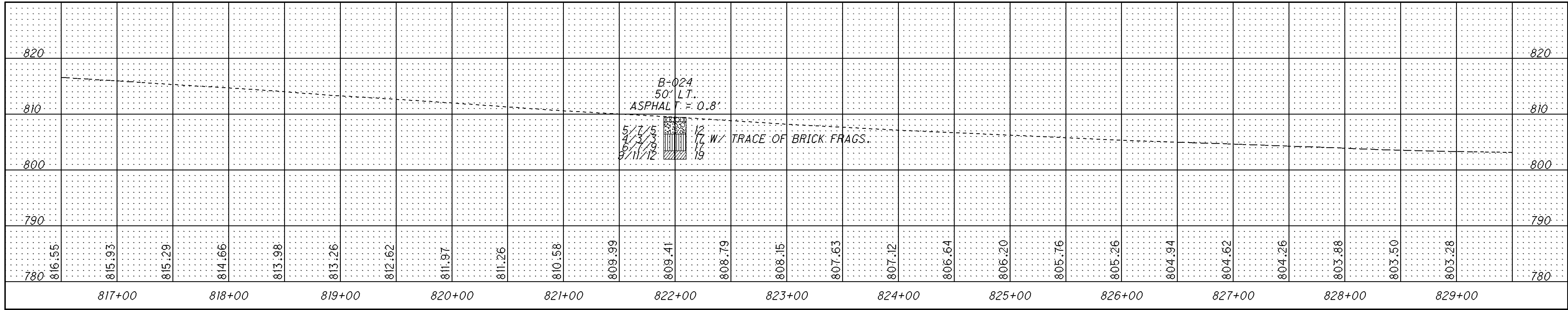


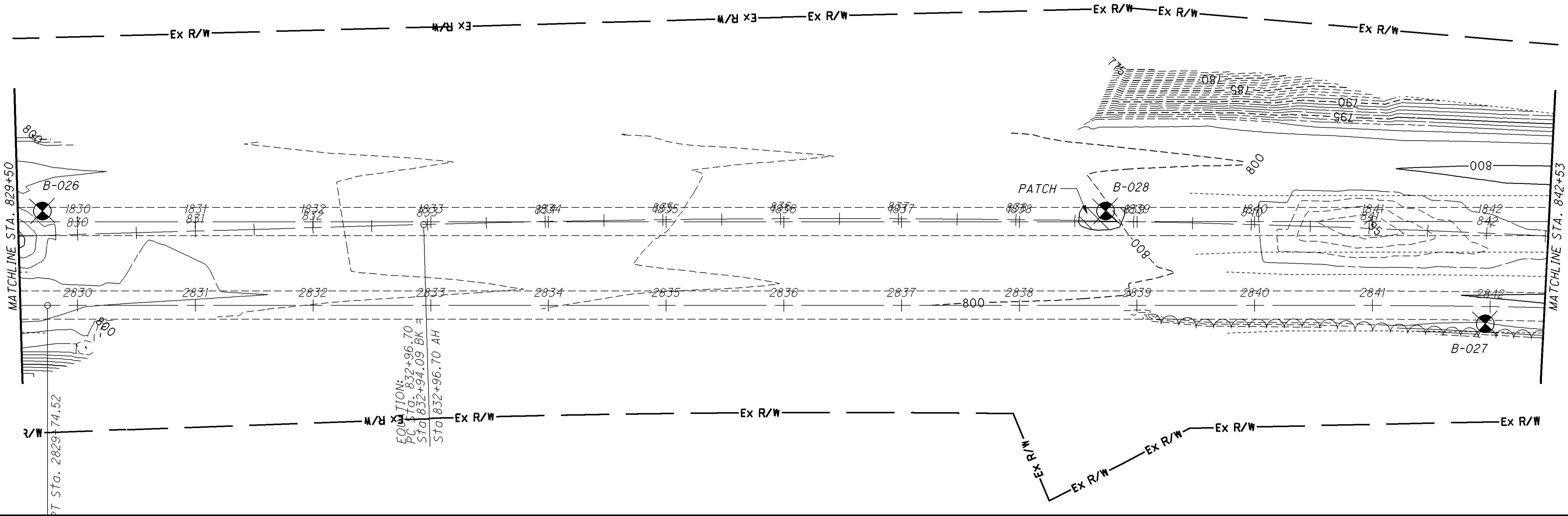
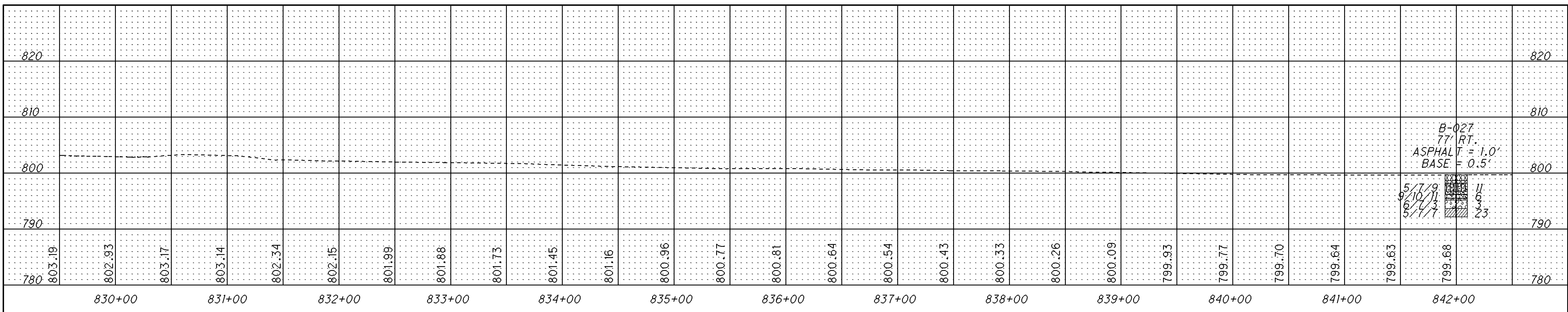
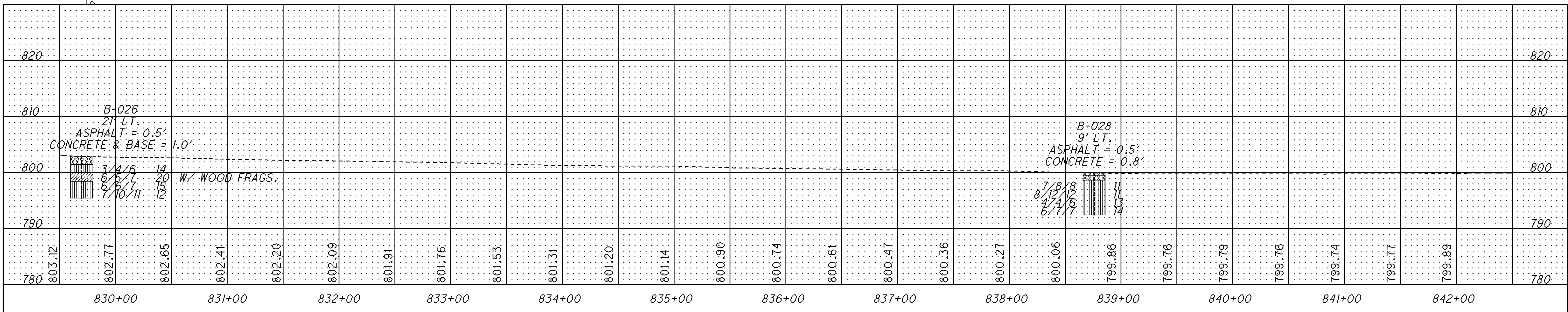
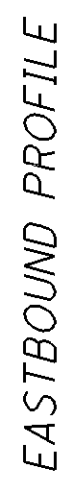


EASTBOUND PROFILE

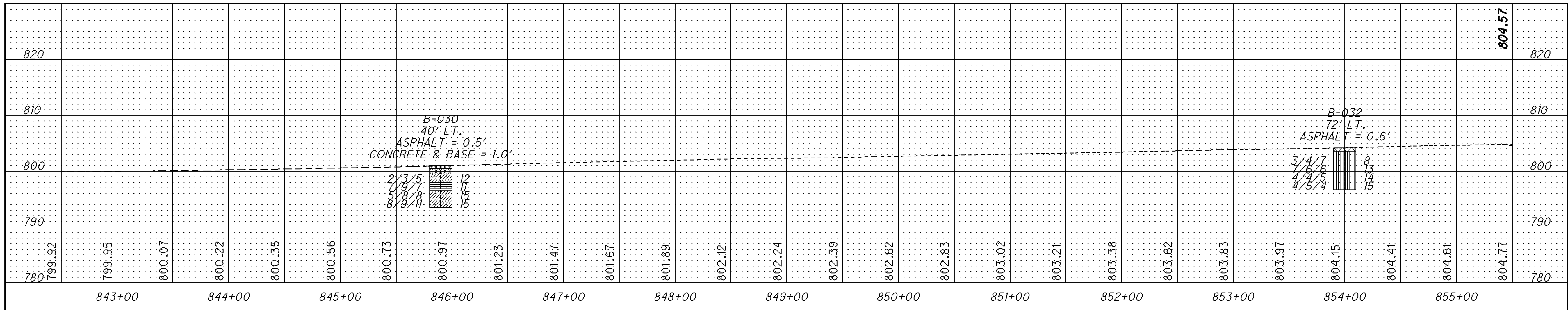


WESTBOUND PROFILE

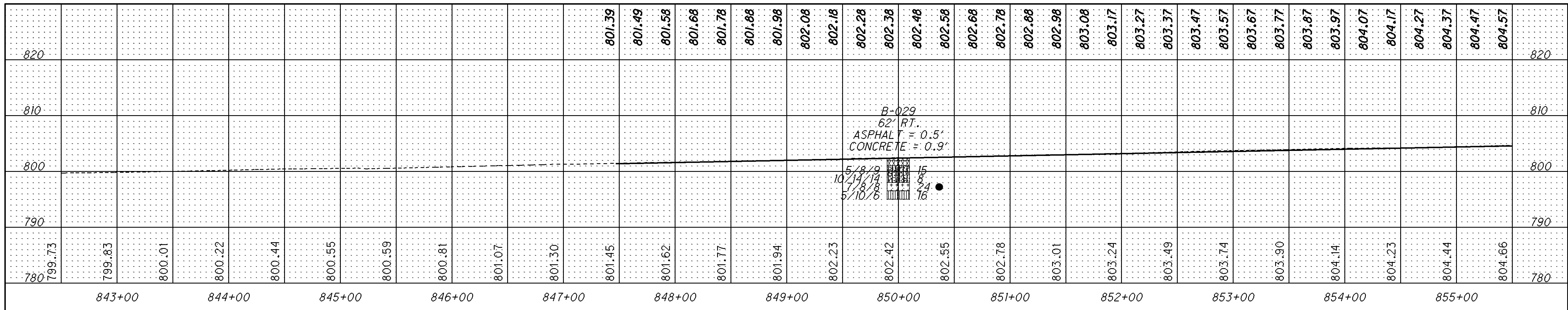




WESTBOUND PROFILE

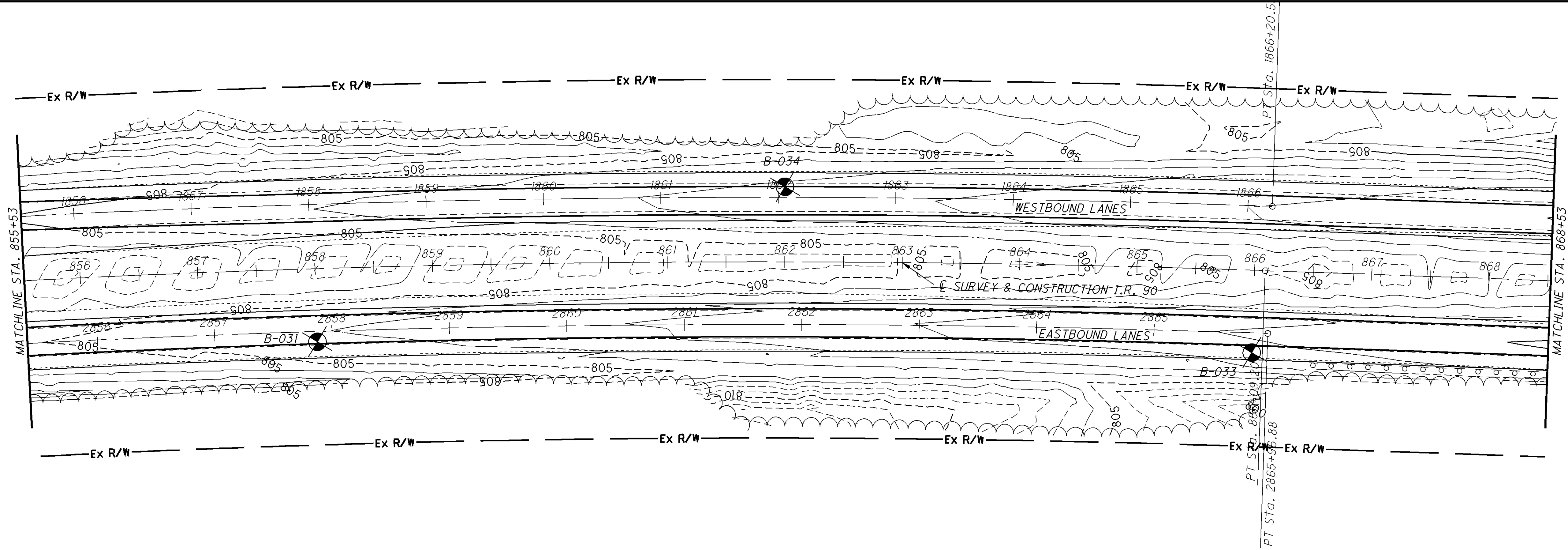
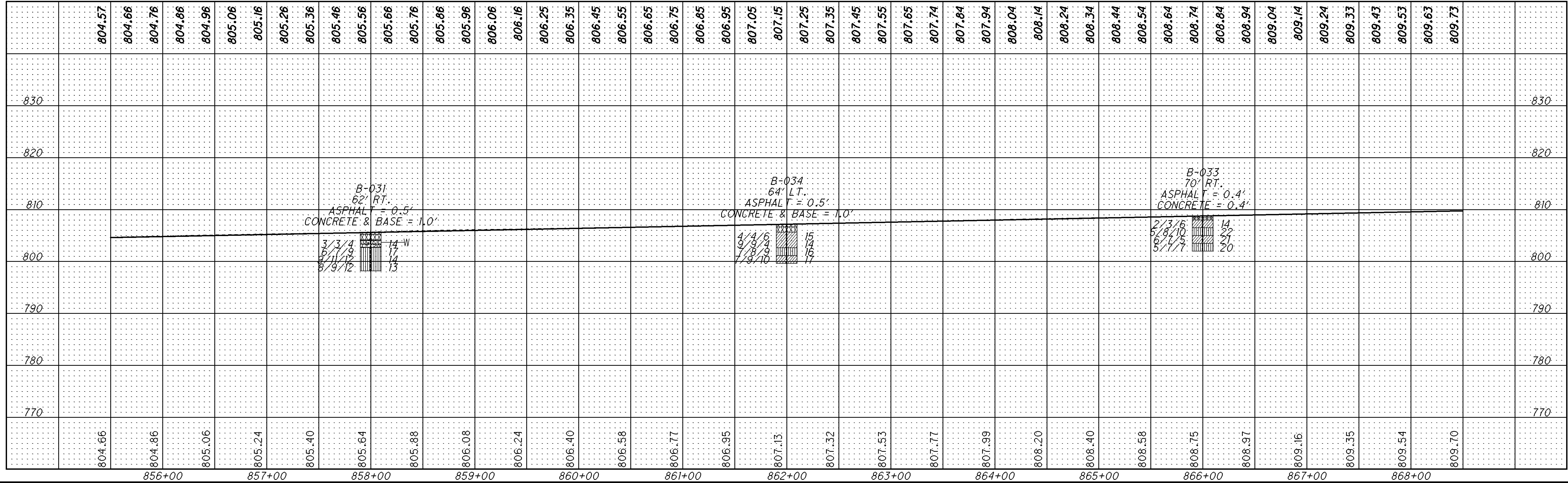


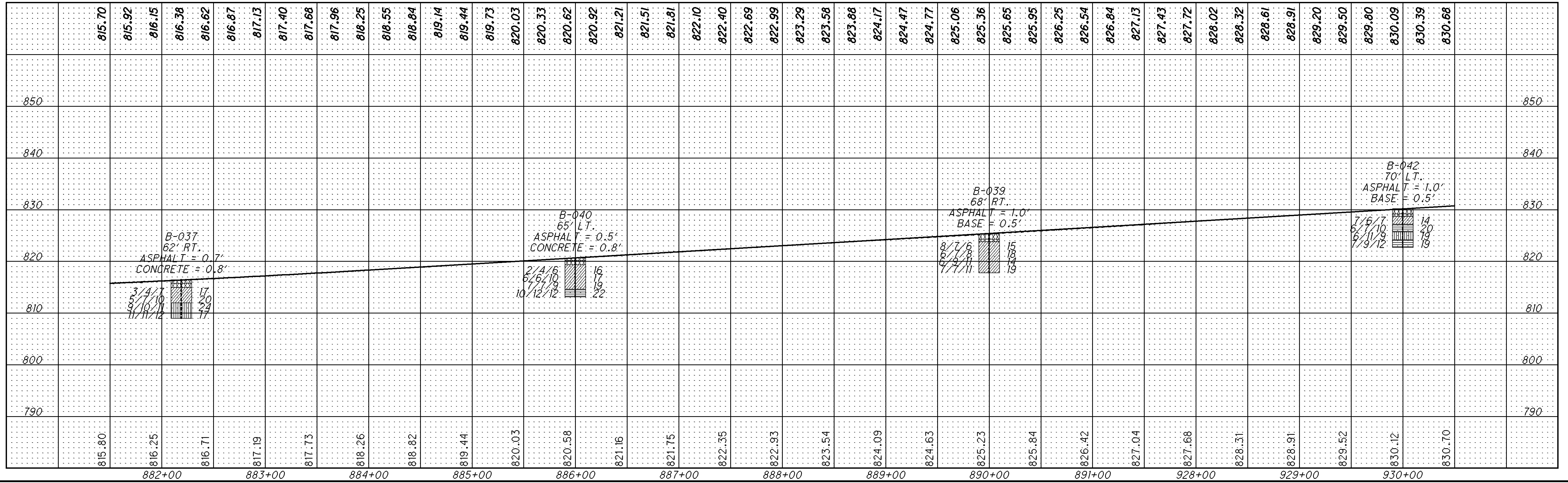
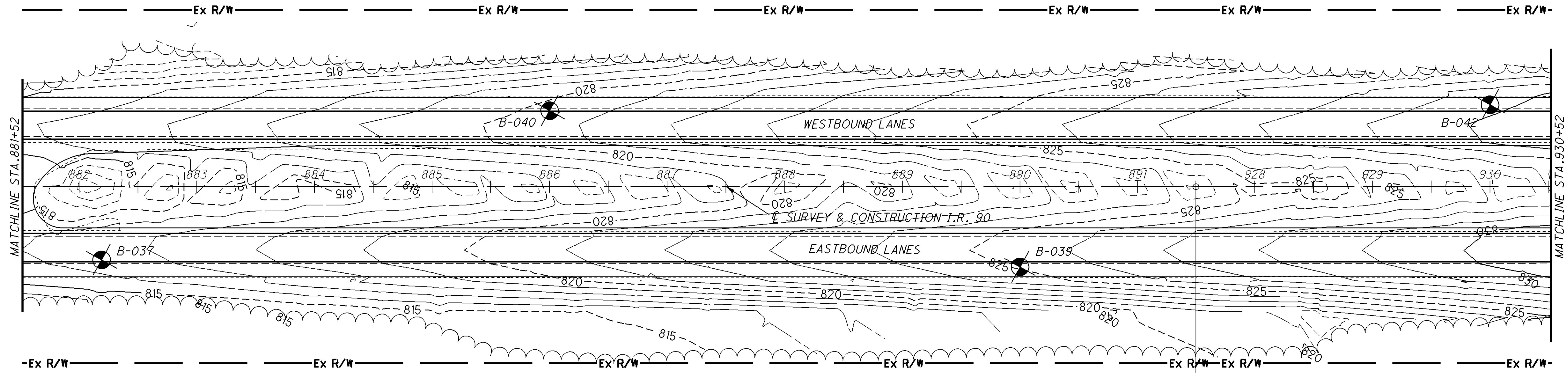
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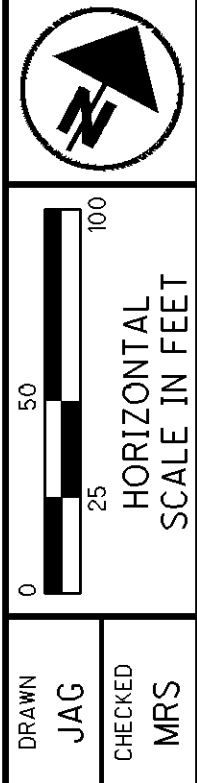


RESUME PROJECT
WESTBOUND LANES
STA. 855+50.00
SURVEY & CONSTRUCTION I.R. 90
S.L.M. 23.87
FED. NO. E080604

RESUME PROJECT
EASTBOUND LANES
STA. 847+50.00
SURVEY & CONSTRUCTION I.R. 90
S.L.M. 23.73
FED. NO. E080604







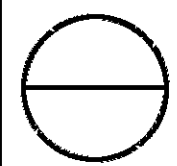
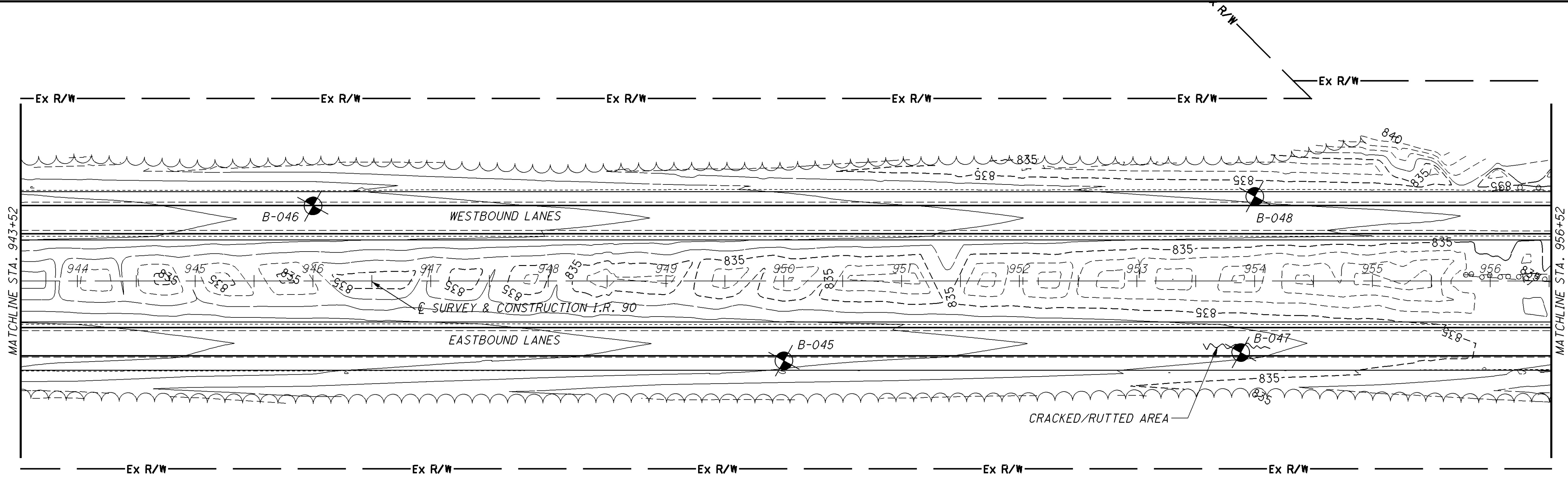
	20 / 44	LAK-90-21.40 ATB-90-0.00	SUBGRADE EXPLORATION STA. 930+52 TO STA. 943+52
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EASTBOUND PROFILE

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WESTBOUND PROFILE

850	839.40	839.32	839.25	839.17	839.10	839.02	838.95	838.87	838.80	838.72	838.65	838.57	838.50	838.42	838.35	838.27	838.20	838.12	838.05	837.97	837.90	837.82	837.75	837.67	837.60	837.52	837.45	837.37	837.30	837.22	837.15	837.07	837.00	836.92	836.85	836.77	836.70	836.62	836.55	836.47	836.40	836.32	836.25	836.17	836.10	836.02	835.95	835.87	835.80	835.72	835.65	835.57	835.50	850																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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810	839.41	839.27	839.11	838.90	838.70	838.55	838.41	838.27	838.12	837.99	837.85	837.71	837.56	837.40	837.25	837.11	836.93	836.76	836.59	836.44	836.31	836.19	836.07	835.94	835.74	835.54	835.35	810																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									



EASTBOUND PROFILE

850	833.59	833.35	833.13	832.95	832.80	832.68	832.59	832.53	832.50	832.50	832.53	832.60	832.69	832.82	832.97	833.13	833.27	833.39	833.49	833.57	833.62	833.66	833.67	833.66	833.63	833.58	833.51	833.43	833.35	833.27	833.19	833.10	833.02	832.94	832.86	832.78	832.70	832.61	832.53	832.45	832.37	832.29	832.21	832.13	832.04	831.96	831.88	831.80	831.72	831.64	831.56	831.47	831.39	850
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810	834.29	833.81	833.57	833.43	833.33	833.22	833.12	833.24	833.38	833.51	833.55	833.46	833.33	833.18	833.09	833.05	832.97	832.83	832.67	832.51	832.30	832.10	831.90	831.69	831.47	831.34	831.25	810																							810			
	957+00	958+00	959+00	960+00	961+00	962+00	963+00	964+00	965+00	966+00	967+00	968+00	969+00																																									

B-049
62' RT.
ASPHALT = 0.5'
CONCRETE & BASE = 1.0'

2/4/5
6/6/10
8/8/13
8/9/13

18
16
15

B-050
64' LT.
ASPHALT = 0.5'
CONCRETE & BASE = 1.0'

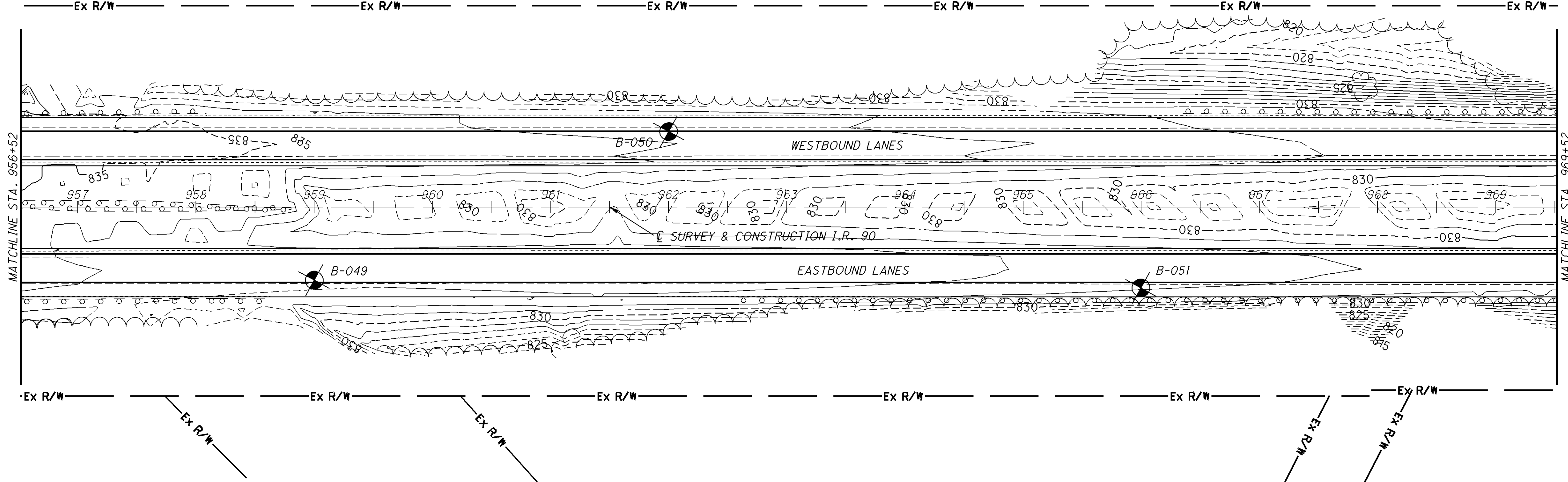
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4/5/6
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2/2/3

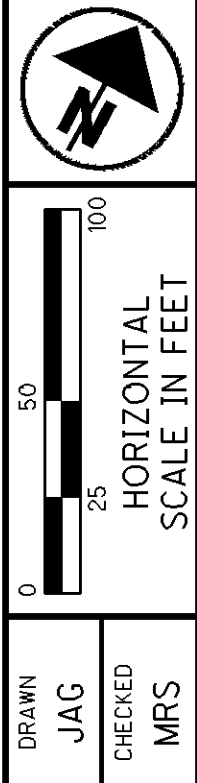
14
17
26 W

WOODY BEAT
WOOD FRAGS.

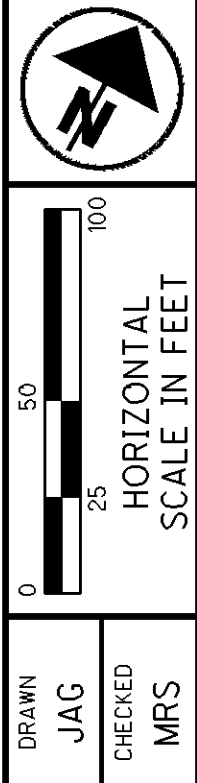
WESTBOUND PROFILE

	850	835.50	835.42	835.35	835.27	835.20	835.12	835.05	834.97	834.90	834.82	834.75	834.67	834.60	834.52	834.45	834.37	834.30	834.22	834.15	834.07	833.99	833.91	833.83	833.75	833.67	833.59	833.51	833.43	833.35	833.27	833.19	833.10	833.02	832.94	832.86	832.78	832.70	832.61	832.53	832.45	832.37	832.29	832.21	832.13	832.04	831.96	831.88	831.80	831.72	831.64	831.56	831.47	831.39	850
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810	835.35	835.21	835.13	835.03	834.81	834.68	834.55	834.41	834.30	834.19	834.07	833.93	833.76	833.54	833.34	833.21	833.05	832.88	832.70	832.51	832.32	832.13	831.95	831.71	831.56	831.47	831.37	810																								810			
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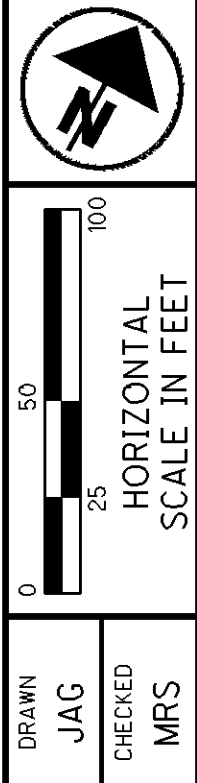




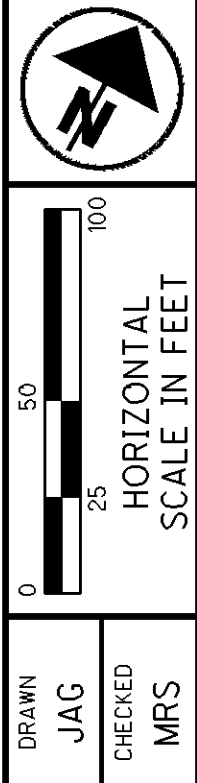
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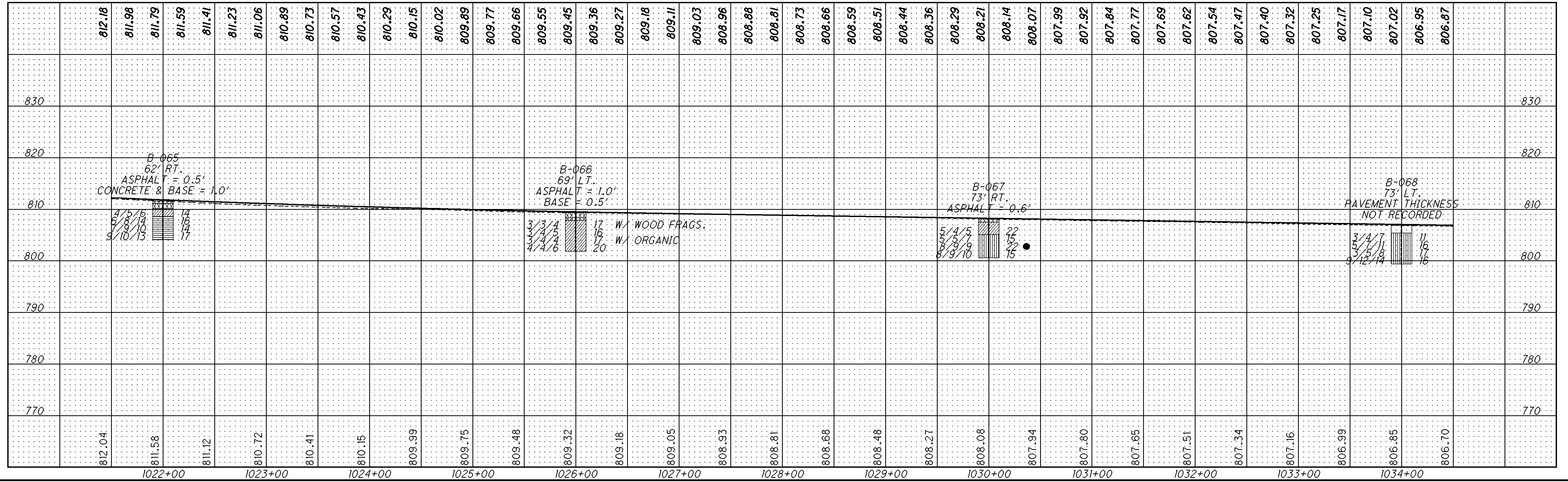
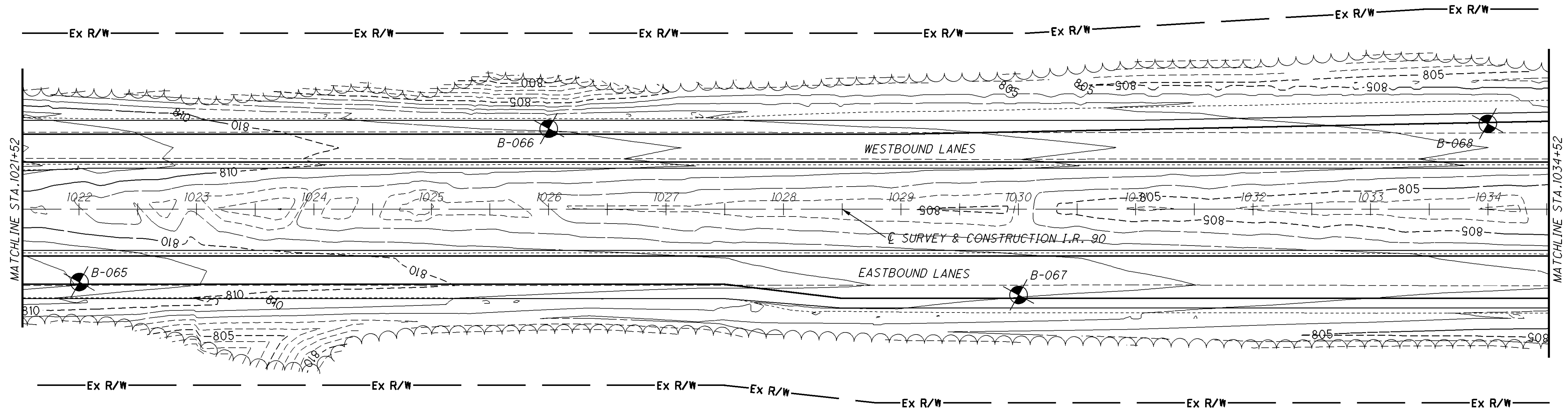
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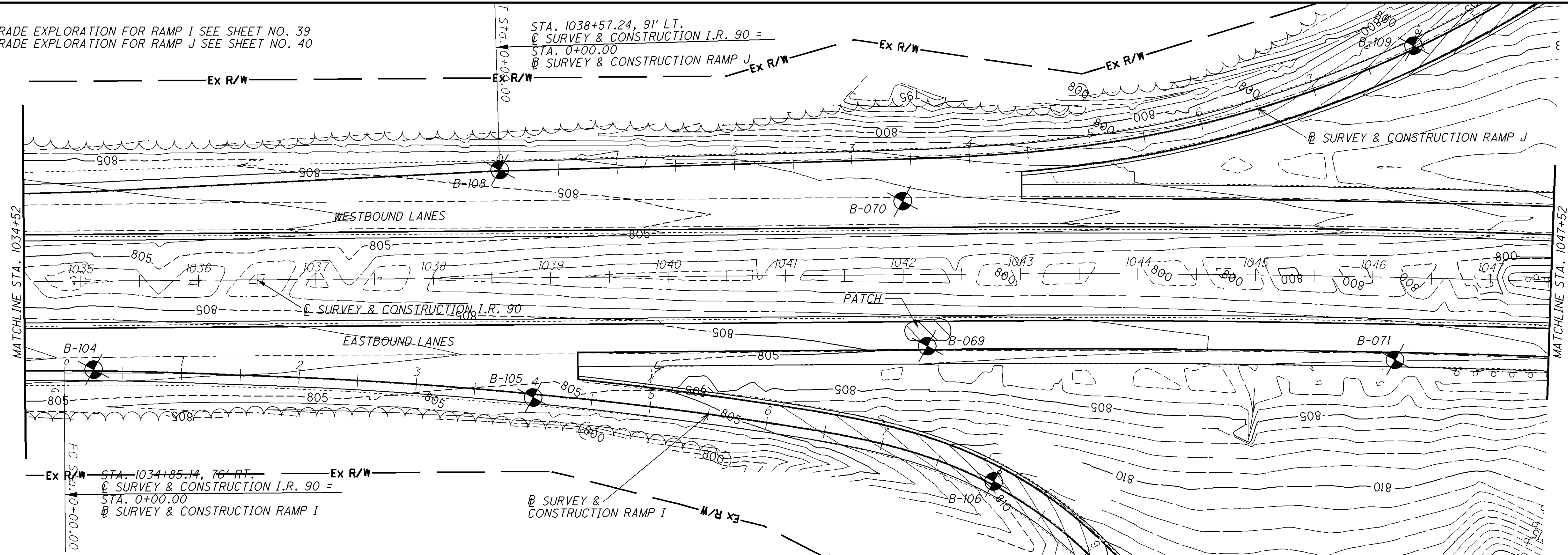
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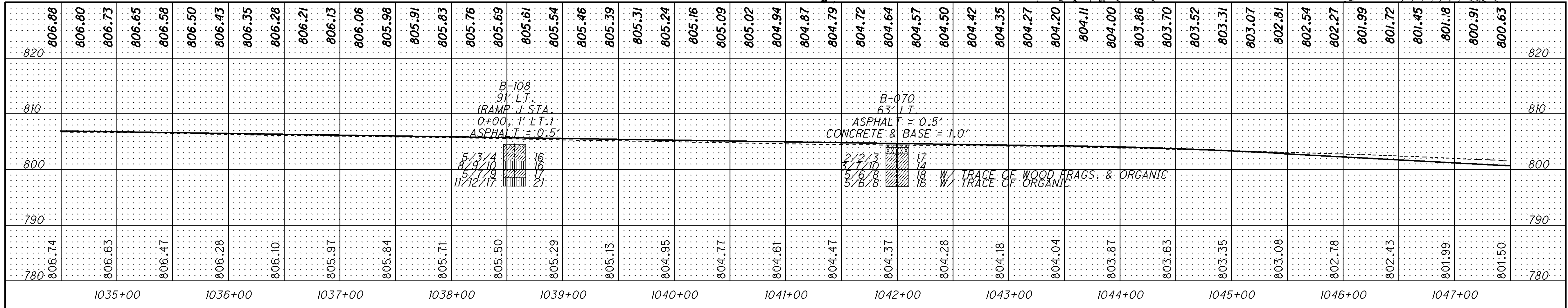
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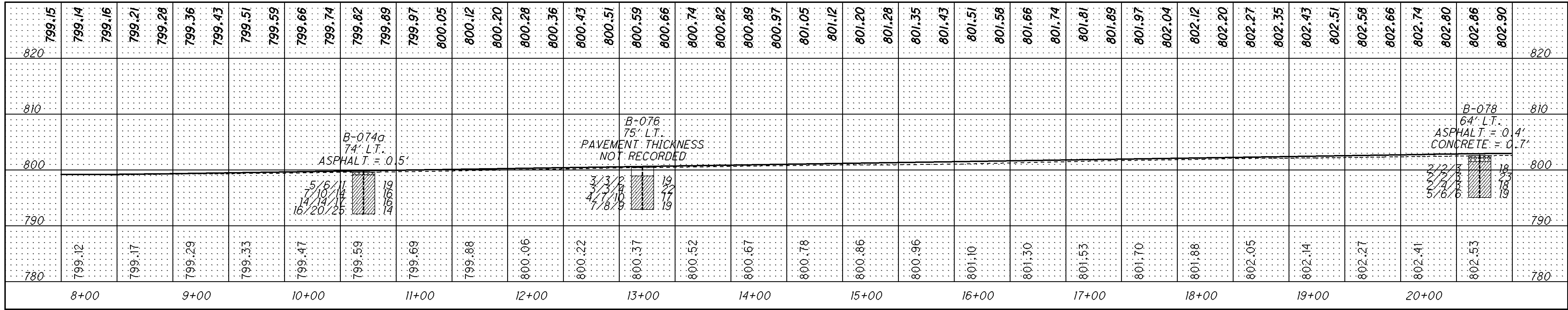
FOR SUBGRADE EXPLORATION FOR RAMP I SEE SHEET NO. 39
FOR SUBGRADE EXPLORATION FOR RAMP J SEE SHEET NO. 40



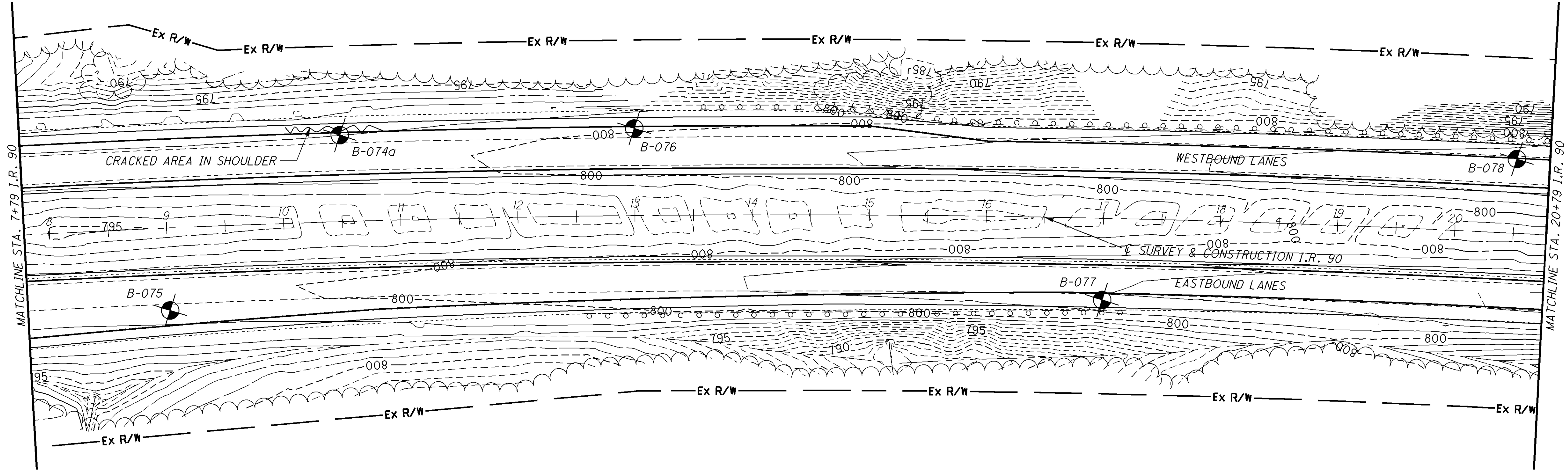
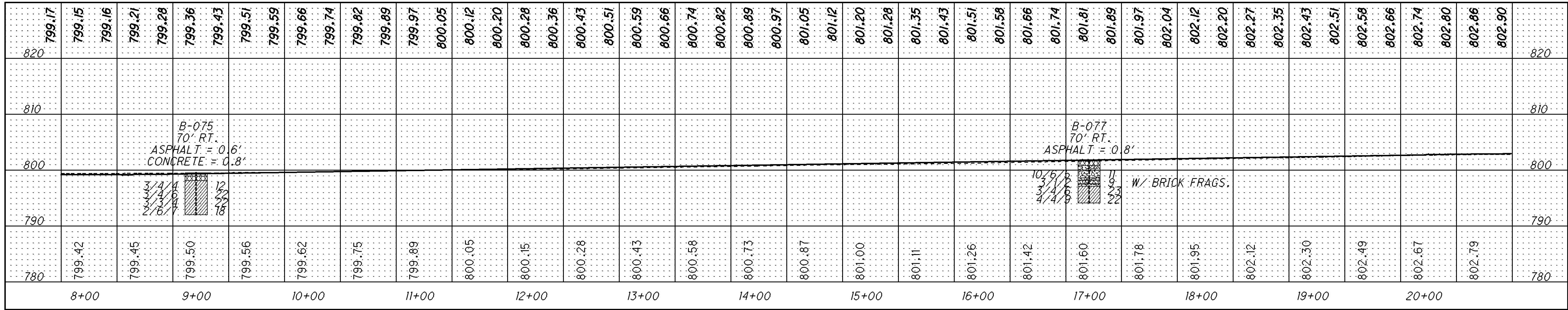
WESTBOUND PROFILE

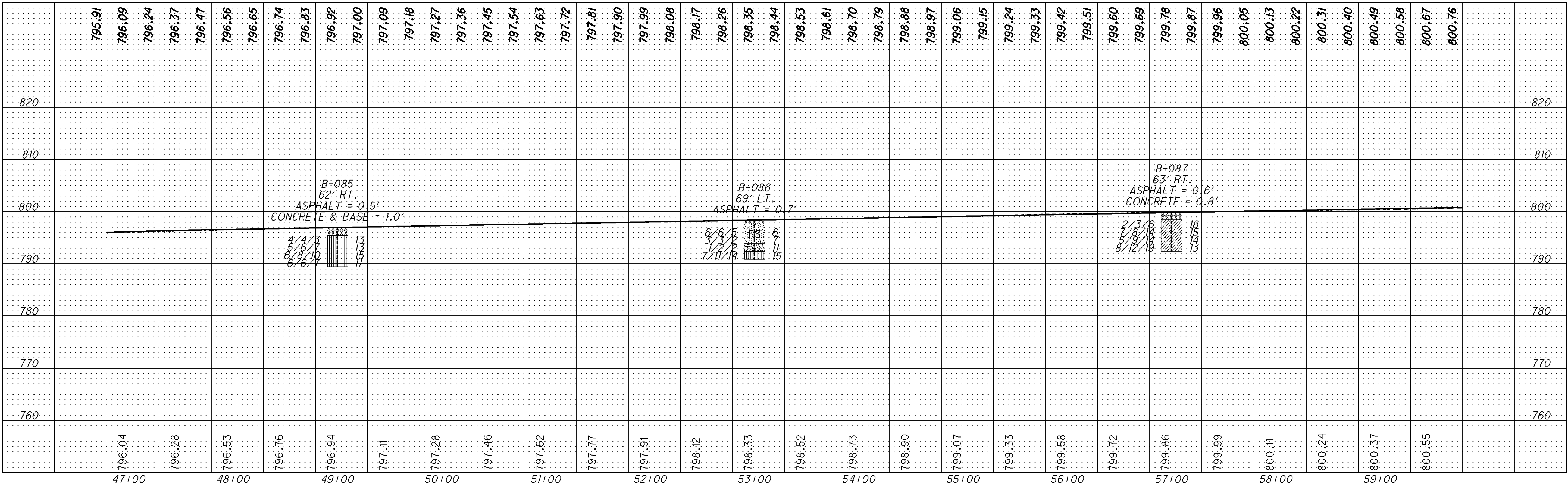
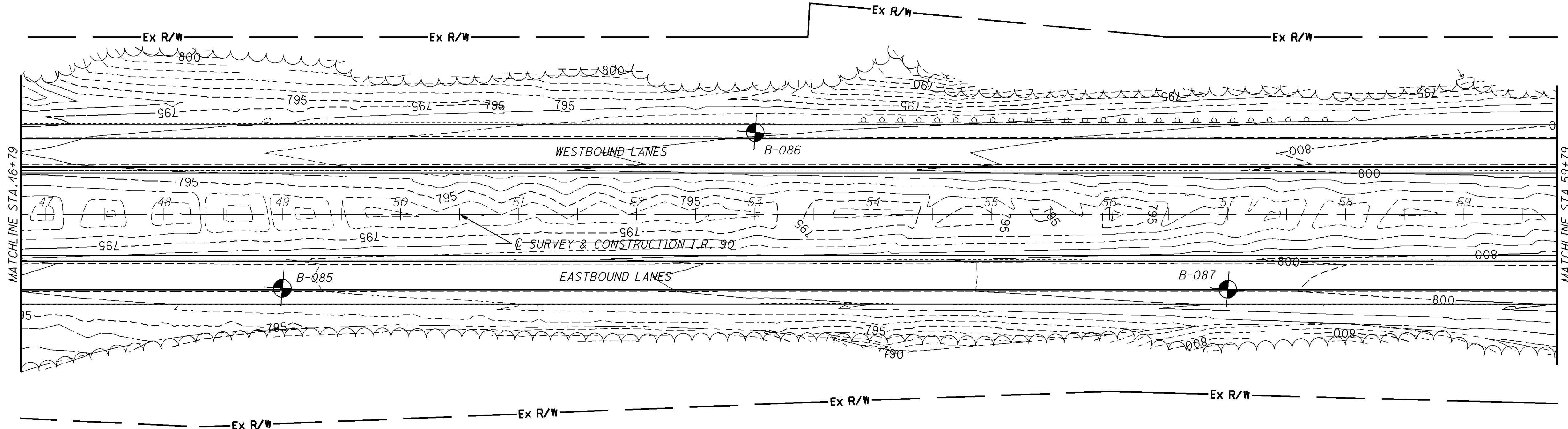


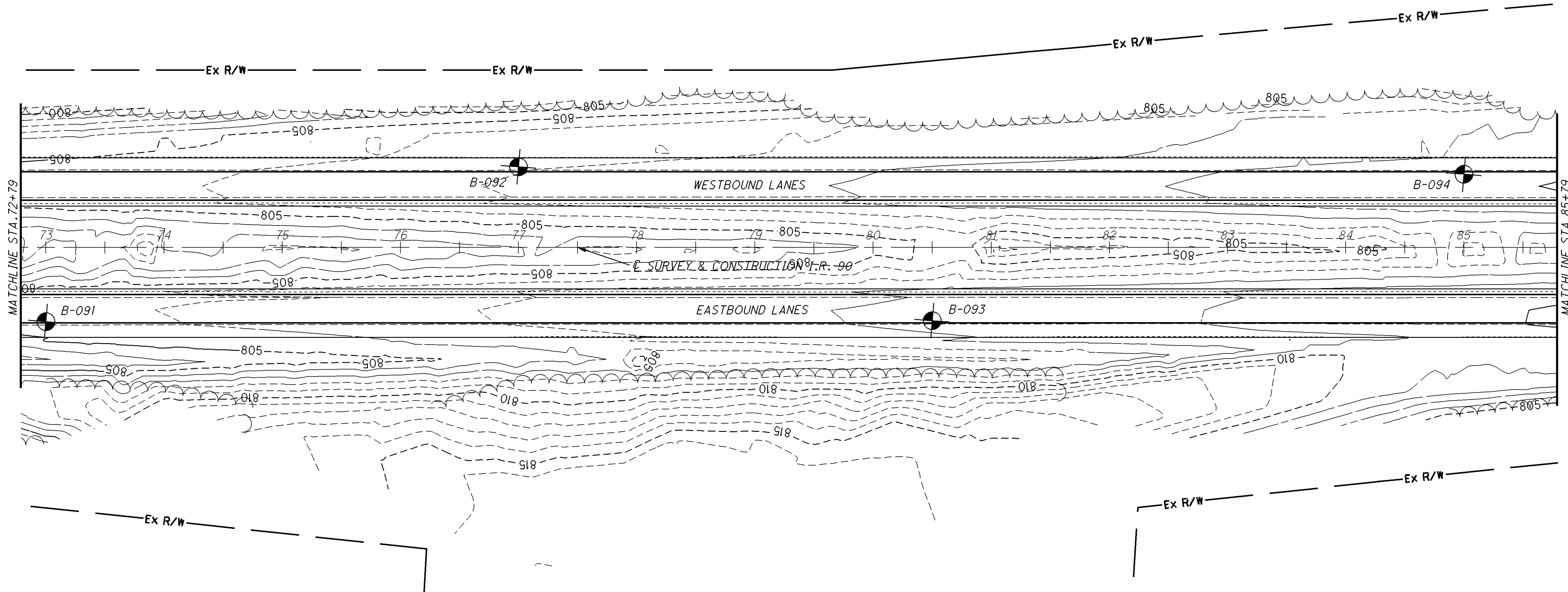
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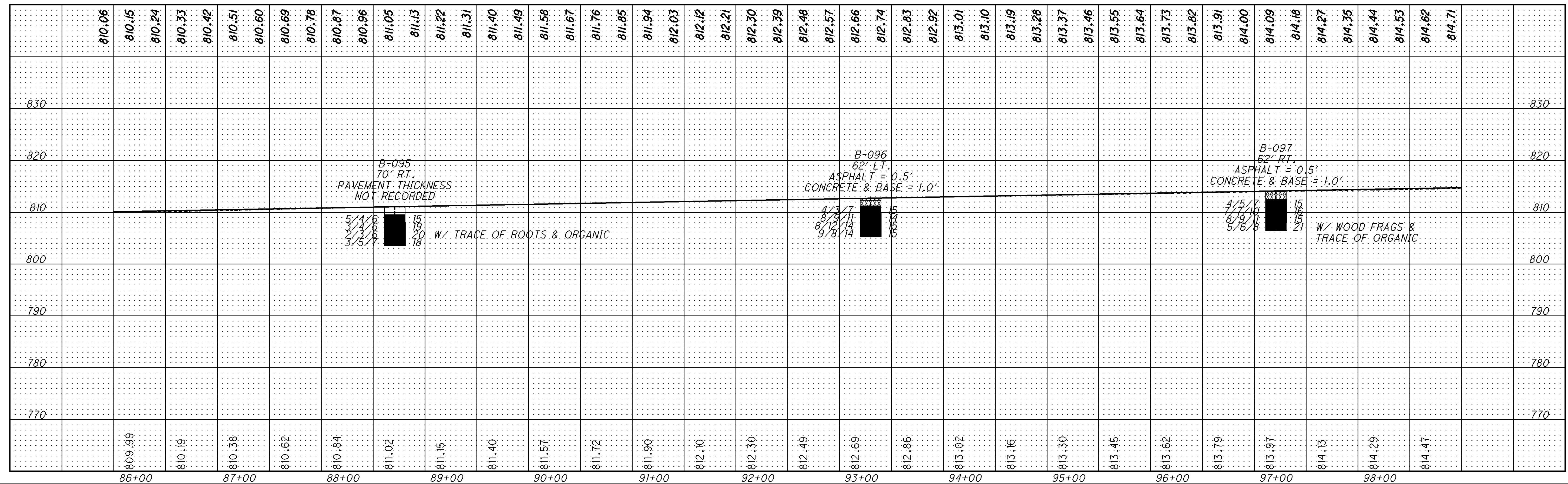
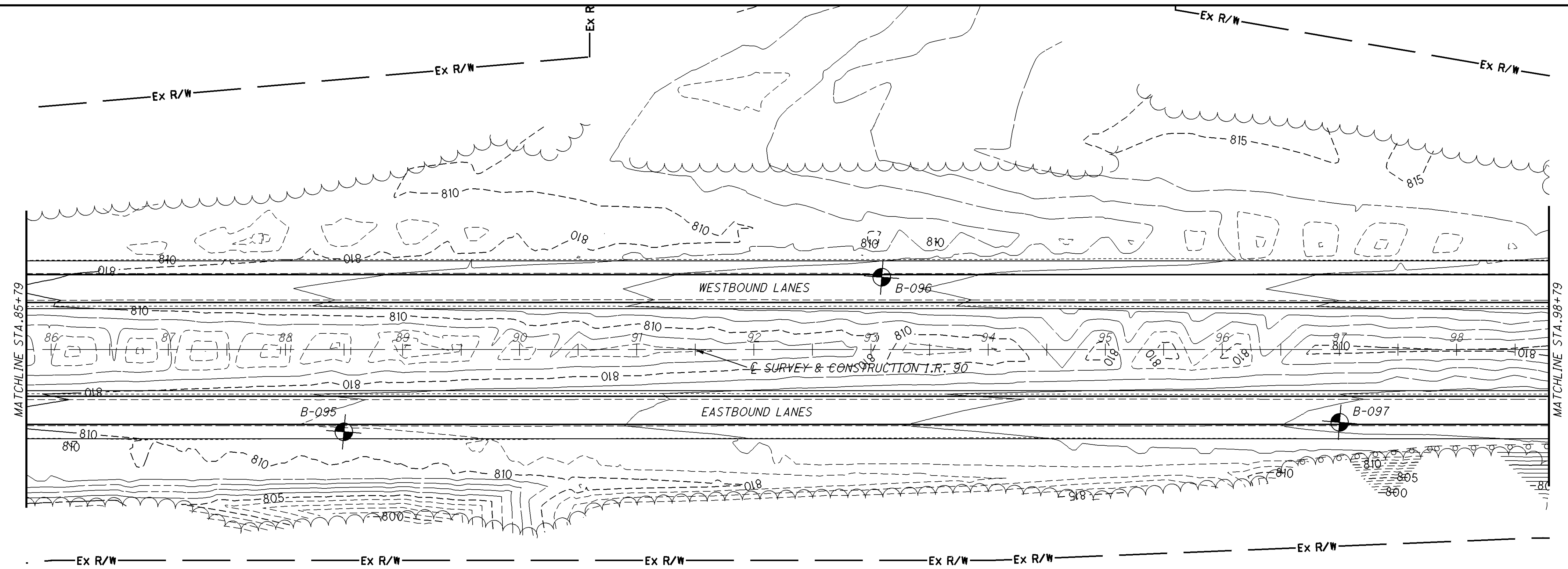


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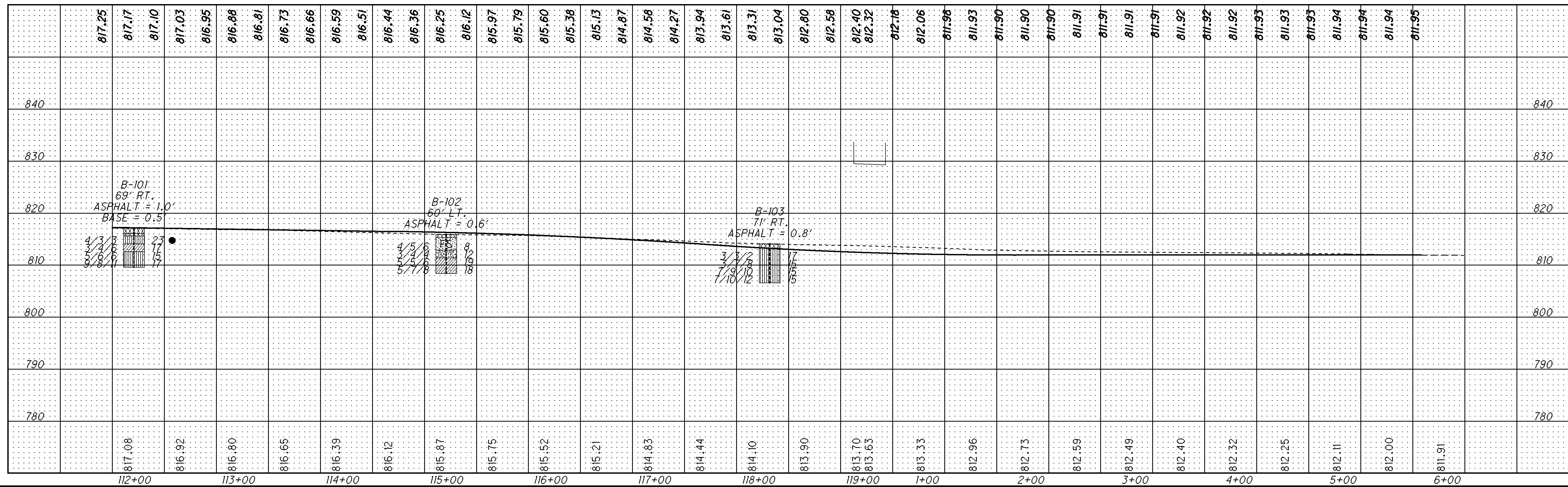
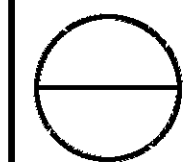


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SUBGRADE EXPLORATION
STA. 111+79 TO STA. 6+16

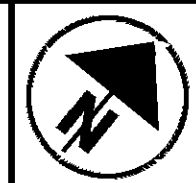
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FOR SUBGRADE EXPLORATION FOR I.R. 90 SEE SHEET NO. 28
FOR SUBGRADE EXPLORATION FOR RAMP I SEE SHEET NO. 39



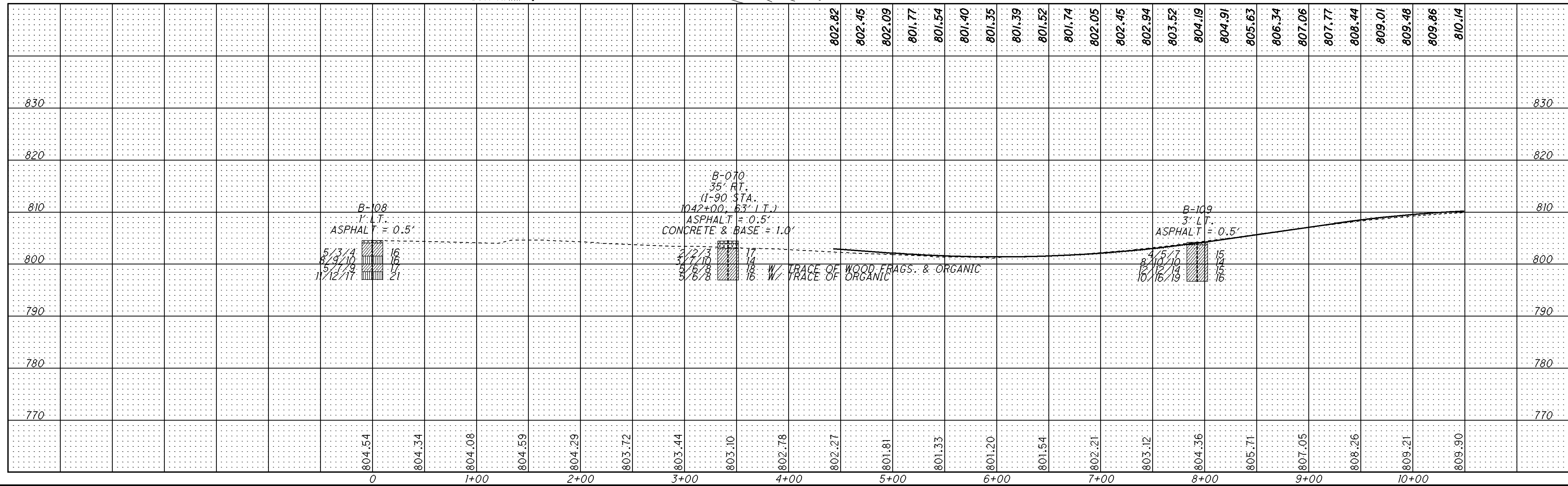
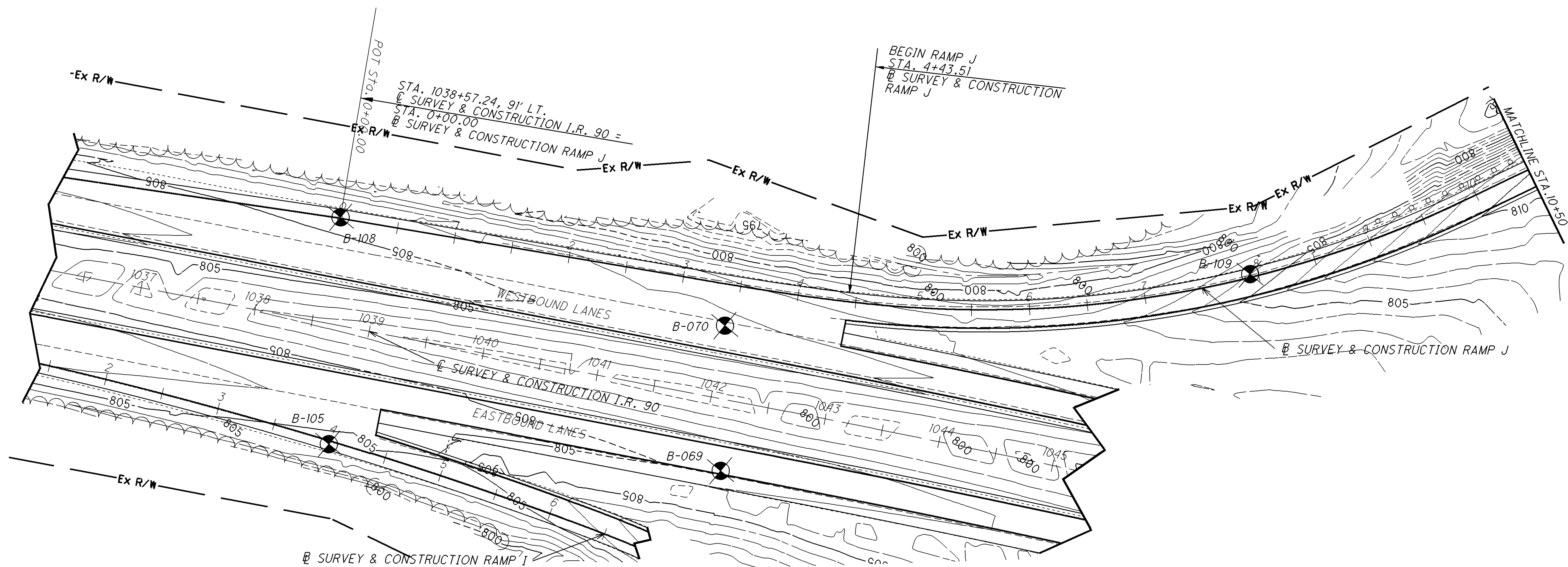
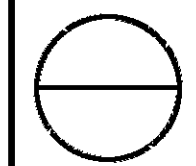
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SUBGRADE EXPLORATION - RAMP J
STA. 4+43.51 TO STA. 10+50.00

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ATB-90-0.00

40/44



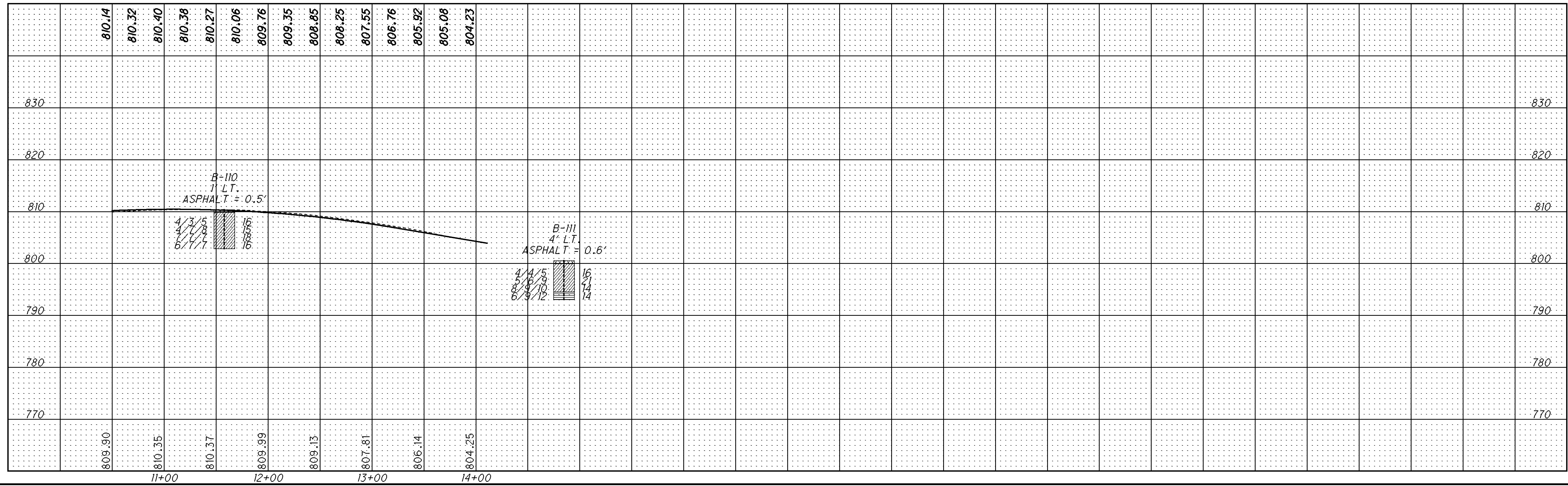
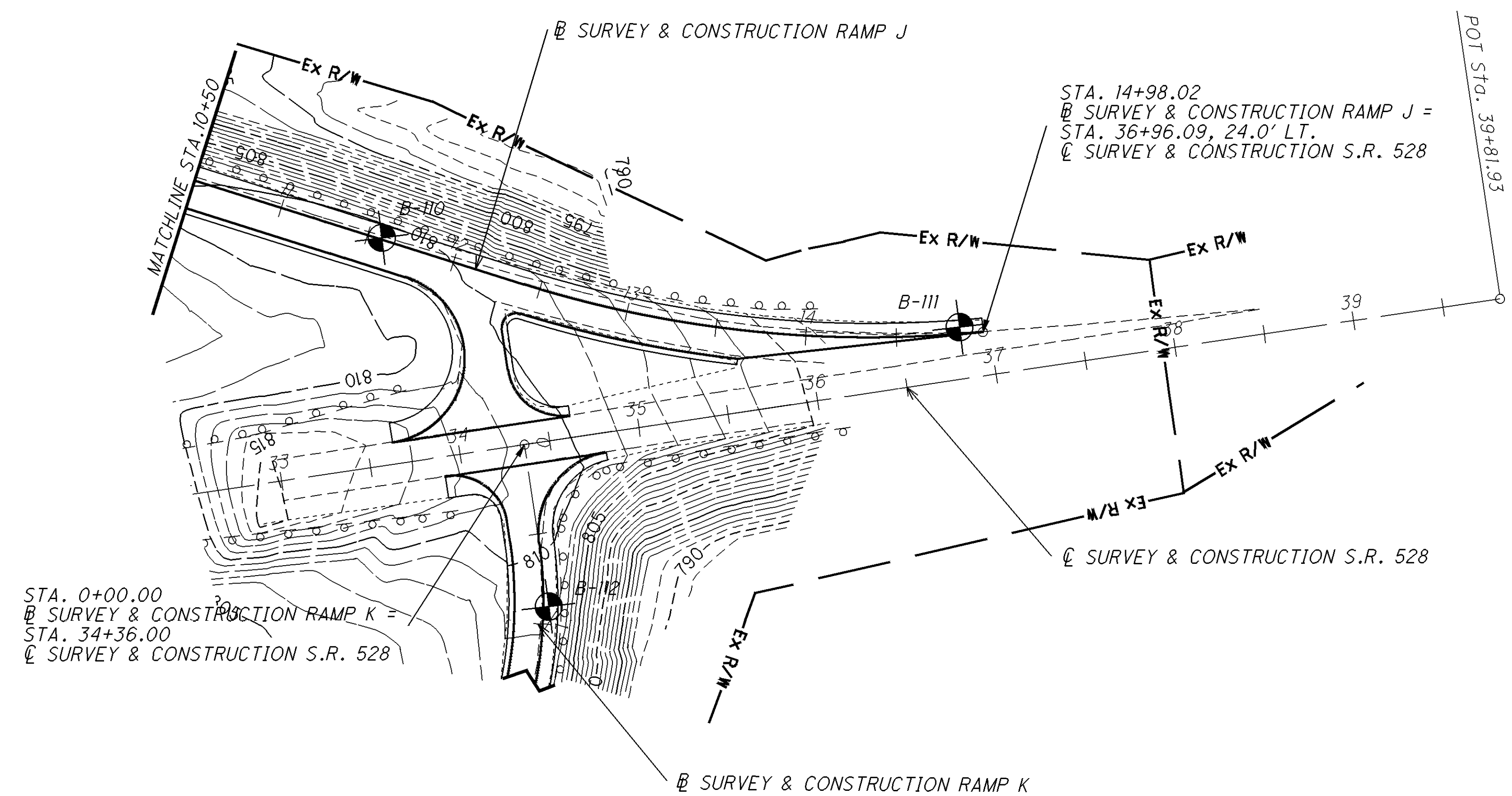
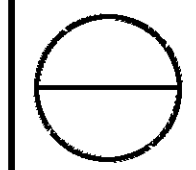


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**SUBGRADE EXPLORATION - RAMP J
STA. 10+50.00 TO STA. 14+98.02**

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41 / 44



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