



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

October 18, 2011

CALL NO. 104  
CONTRACT ID NO. 111046  
ADDENDUM # 2

Subject: Warren County, STP 7434 (022)  
Letting October 21, 2011

- (1) Revised - Plan Sheets - R1, R2C, R2D, R17, R18, R22, X68, X69, X70, X76, & X90
- (2) Revised - Bid Items - Pages 116-125 of 125

Proposal revisions are available at <http://transportation.ky.gov/contract/>.  
Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith  
Director  
Division of Construction Procurement

RG:ks  
Enclosures



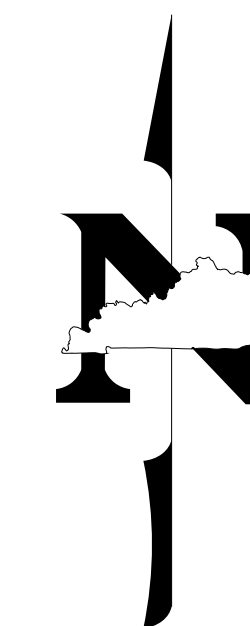
An Equal Opportunity Employer M/F/D

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-317.00	RI

# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

## PLANS OF PROPOSED PROJECT WARREN COUNTY

### THESE PLANS ARE FOR GRADE, DRAIN, & SURFACE STP 7434 (022)



SHEET NO.	DESCRIPTION
RI	LAYOUT SHEET
R2-R2E	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3-R23	PLAN AND PROFILE SHEETS
R24-R25	RIGHT OF WAY SUMMARY SHEETS
R26-R30	RIGHT OF WAY STRIP MAP SHEETS
R31-R40	DETAIL SHEETS
R41-R44	TRAFFIC CONTROL SHEETS
R45-R54	EROSION CONTROL SHEETS
R55-R59	COORDINATE CONTROL SHEETS
R60-R70	SOIL PROFILE SHEETS
R71-R75	PIPE DRAINAGE SHEETS
SI-S54	STRUCTURE BRIDGE PLANS
SI-S5	STRUCTURE RETAINING WALL PLANS
T1-T11	TRAFFIC SIGNAL PLANS
T12-T18	TRAFFIC LIGHTING PLANS
T19-T22	TRAFFIC ITS SIGN RELOCATION PLANS
XI-X124	CROSS SECTION SHEETS

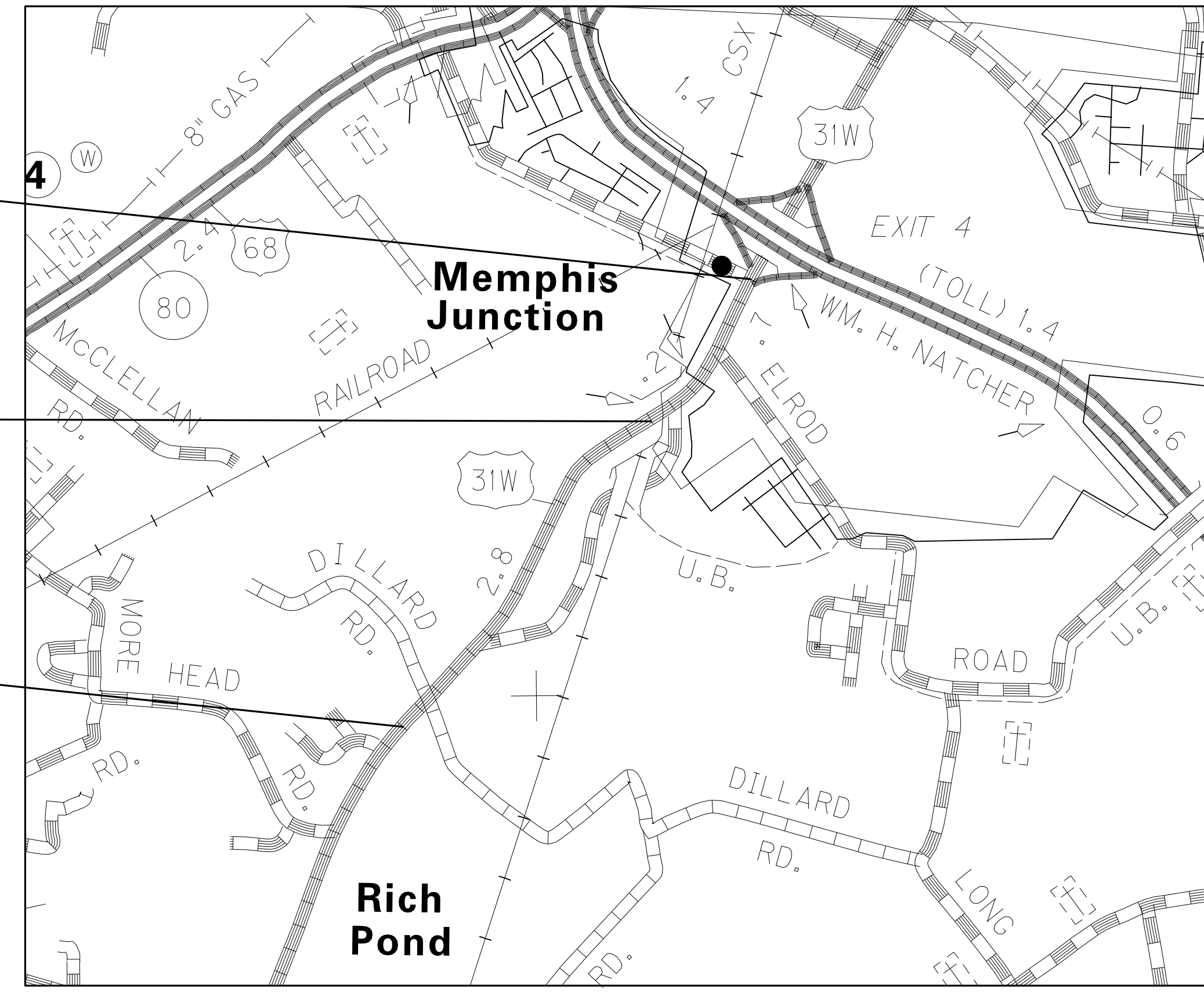
SHEETS NOT INCLUDED IN TOTAL SHEETS  
2A, 2B, 2C, 2D

STANDARD DRAWINGS			
NUMBER			
RBB-001-07	RDB-160-01	RDI-035-01	RGX-100-05
RBC-001-09	RDB-280-05	RDX-001-05	RGX-200
RBC-002-01	RDB-281-02	RDX-002-03	RPM-100-09
RBC-003-07	RDB-282-03	RDX-210-02	RPM-110-05
RBI-001-09	RDB-283-03	RDX-215	TPM-120-01
RBI-002-06	RDB-400-04	RDX-220-04	TPM-140-01
RBR-001-11	RDB-410-05	RDX-225	TTC-100-01
RBR-005-10	RDB-420-04	RDX-230	TTC-135-01
RBR-010-05	RDD-040-04	RFW-001-04	TTC-150-01
RBR-015-04	RDI-011-02	RFW-005-06	TTD-100
RBR-016-04	RDI-016-02	RG5-001-06	TTD-105
RBR-050-05	RDI-020-08	RGX-001-05	TTD-110-01
RDB-105-05	RDI-021	RGX-002-08	TTD-120
RDB-106-04	RDI-025-04	RGX-005-05	TTD-125
RDB-150-01	RDI-026	RGX-010-03	TTS-115-01
RDB-155-01			

STA. 147+50  
END CONST

STA. 99+65.00 ~ CONST.  
70'-85'-85' PCIB BRIDGE @  
49°12'56" SK RT

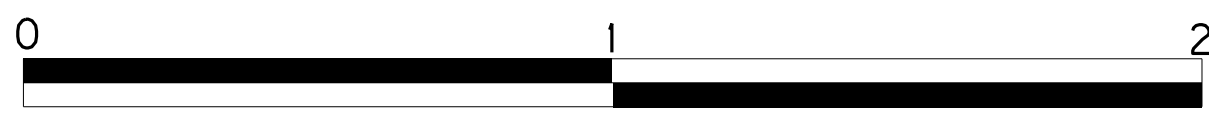
STA. 18+00.06  
BEGIN CONST



**BEFORE YOU DIG**

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT FROM THE BEGINNING TO STA. 142+17.25 FROM STA. 142+75.25 TO THE END OF THE PROJECT THE ACCESS IS FULLY CONTROLLED



GRAPHIC SCALE IN SCALE IN MILES

### LAYOUT MAP

#### DESIGN CRITERIA

CLASS OF HIGHWAY	URBAN MINOR COLLECTOR
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	45 MPH
REQUIRED NPSD	360
REQUIRED PSD	N/A
LEVEL OF SERVICE	
ADT PRESENT ( 2003 )	14,500
ADT FUTURE ( 2027 )	29,400
DHV (2027)	2,900
D % (2027)	10.5%
T % (2027)	7.0%

#### GEOGRAPHIC COORDINATES

LATITUDE 36 DEGREES 54 MINUTES 50 SECONDS NORTH  
LONGITUDE 86 DEGREES 30 MINUTES 39 SECONDS WEST

#### DESIGNED

% RESTRICTED SD	
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	

LENGTH	LIN. FT.	MILES	LENGTH	LIN. FT.	MILES	LENGTH	LIN. FT.	MILES	LENGTH	LIN. FT.	MILES
12,949.94	2,452										
ADDED	FOR EQUALITIES	LIN. FT.	ADDED	FOR EQUALITIES	LIN. FT.	ADDED	FOR EQUALITIES	LIN. FT.	ADDED	FOR EQUALITIES	LIN. FT.
DEDUCTED	NOT INCLUDED		DEDUCTED	NOT INCLUDED		DEDUCTED	NOT INCLUDED		DEDUCTED	NOT INCLUDED	
RAILROAD CROSSINGS NO.	LIN. FT.		RAILROAD CROSSINGS NO.	LIN. FT.		RAILROAD CROSSINGS NO.	LIN. FT.		RAILROAD CROSSINGS NO.	LIN. FT.	
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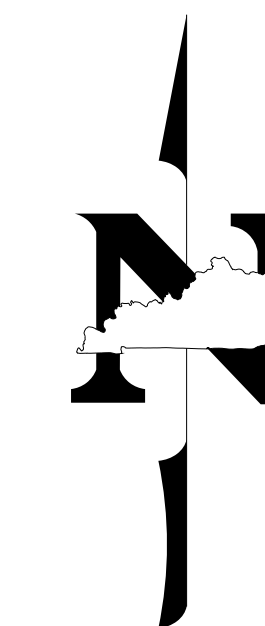
**Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
COUNTY OF  
WARREN**

ITEM NO. 3-317.00  
PROJECT STP 7434 (022)  
NUMBER: FD52 114 031W 006-009  
LETTING DATE: OCTOBER 21, 2011

RECOMMENDED BY: J.E. HUDSON PROJECT MANAGER DATE: SEPT. 14, 2011  
PLAN APPROVED BY: [Signature] STATE HIGHWAY ENGINEER DATE: SEPT. 15, 2011

FILE NAME: G:\PWORK\JONATHON.ROSS\DM54204\N\00100LS.DGN  
USER: jonathon.ross  
DATE PLOTTED: August 11, 2011  
E-SHEET NAME:  
MicroStation v8.11.7.180

**REVIS**  **REVISED 10-17-2011**



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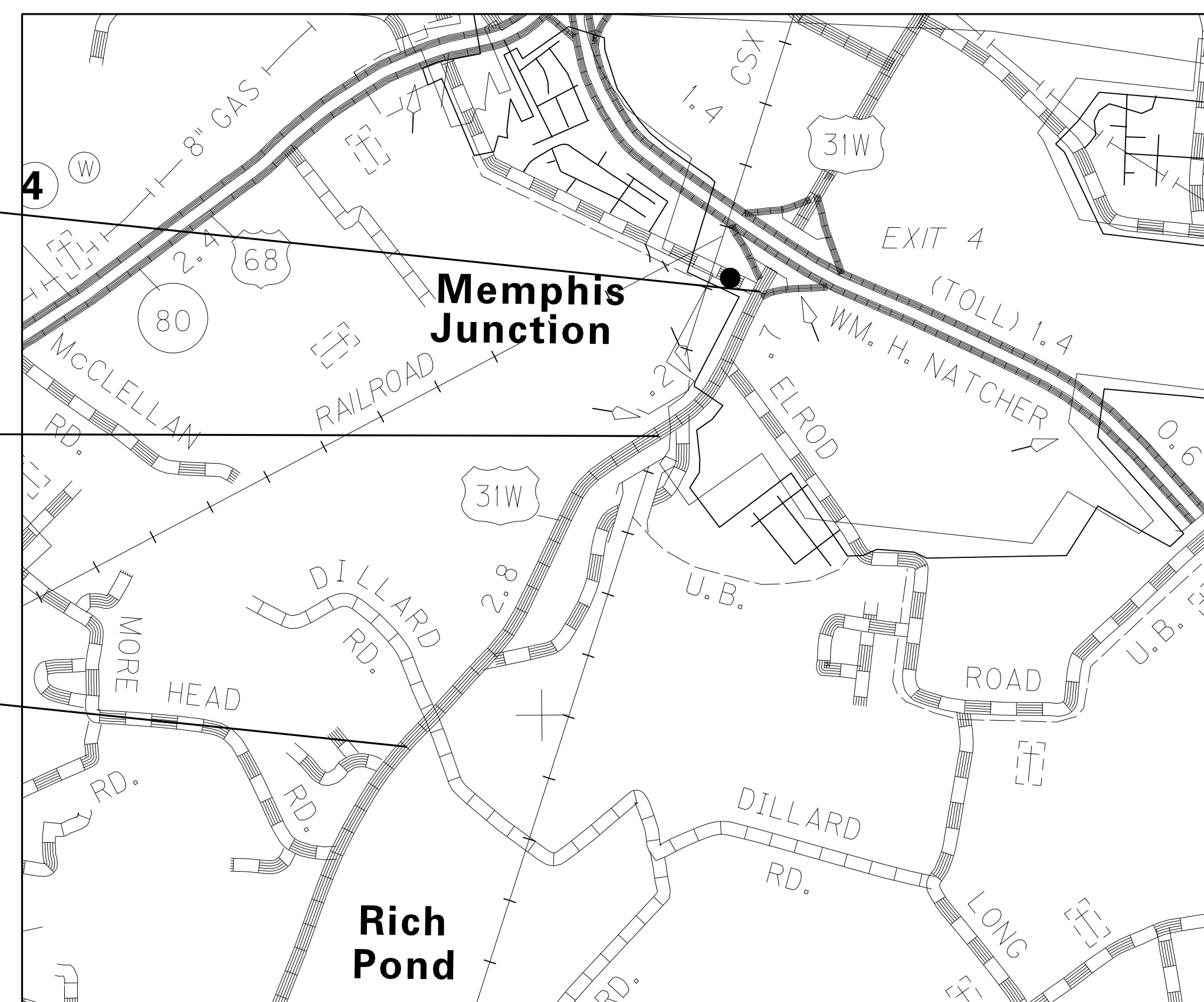
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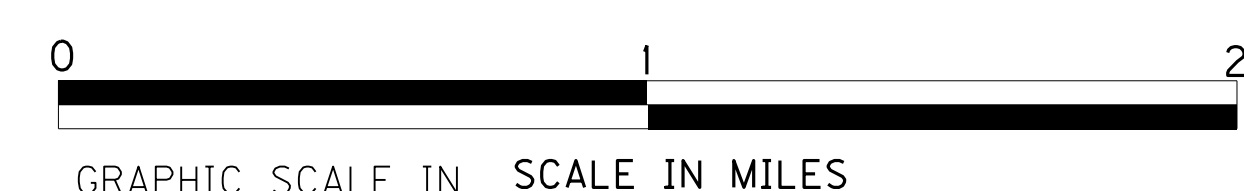
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DATE PLOTTED: August 11, 2011  
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MAX. DISTANCE W/O PASSING \_\_\_\_\_

LENGTH	LIN. FT.	MILES	ADDED	DEDUCTED	FOR EQUALITIES	LIN. FT.	ADDED	DEDUCTED	FOR EQUALITIES	LIN. FT.	ADDED	DEDUCTED	FOR EQUALITIES	LIN. FT.	ADDED	DEDUCTED	FOR EQUALITIES	LIN. FT.	
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PROJECT MANAGER

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STATE HIGHWAY ENGINEER

### GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	TOTAL
1310	REMOVE PIPE	LF	198
1825	ISLAND CURB AND GUTTER	LF	25
1845	ISLAND INTEGRAL CURB	LF	34.5
1982	DELINEATOR FOR GUARDRAIL - WHITE	EA	17
2014	BARRICADE - TYPE III	EA	2
2091	REMOVE PAVEMENT	SY	2,116
2223	GRANULAR EMBANKMENT ⑪	CY	210
2230	EMBANKMENT IN PLACE ⑬	CU	173,561
2242	WATER ⑦	MGAL	100
2262	FENCE - WOVEN WIRE TYPE 1	LF	383
2265	REMOVE FENCE	LF	383
2351	GUARDRAIL - STEEL W BEAM - S FACE	LF	2,625
2360	GUARDRAIL TERMINAL END SECTION NO. 1	EA	2
2363	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A	EA	4
2371	GUARDRAIL END TREATMENT TYPE 7	EA	1
2381	REMOVE GUARDRAIL	LF	3,479
2391	GUARDRAIL END TREATMENT TYPE 4A	EA	5
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EA	78
2432	WITNESS POST	EA	20
2469	CLEAN SINKHOLE ⑪	EA	5
2483	CHANNEL LINING CLASS II ⑤	TON	200
2545	CLEARING & GRUBBING ⑥	LS	1
2555	CLASS B CONCRETE ⑧	CY	21.3
2562	SIGNS	SF	500
2568	MOBILIZATION	LS	1
2569	DEMobilIZATION	LS	1
2585	EDGE KEY	LF	354
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2651	DIVERSIONS (BY-PASS DETOURS) ⑨	LS	1
2690	SAFELoADING	CY	34.25
2726	STAKING	LS	1
2731	REMOVE STRUCTURE ⑭	LS	1
5950	EROSION CONTROL BLANKET	SY	8,183
5966	TOPDRESSING FERTILIZER	TON	5.17
5985	SEEDING AND PROTECTION	SY	100,000
6406	SHEETING SIGNS, 0.080 GAUGE ⑰	SF	350
6407	SHEETING SIGNS, 0.125 GAUGE ⑰	SF	310
6410	STEEL POSTS TYPE 1 ⑰	LF	680
6411	STEEL POSTS TYPE 2 ⑰	LF	1,260
6510	PAVE STRIPING - TEMP PAINT - 4 INCH	LF	20,113
6514	PAVE STRIPING - PERM PAINT - 4 INCH ⑰	LF	51,000
6551	PAVE STRIPING - TEMP REM TYPE - Y	LF	2,000
6568	PAVE MARKING - THERMO STOP BAR - 24 INCH ⑰	LF	400
6574	PAVE MARKING - PRE THERM CURV ARROW ⑰	EA	46
6582	PAVEMENT MARKER TYPE IV - BY ⑰	EA	625
6589	PAVEMENT MARKER TYPE V - MW ⑰	EA	625
6591	PAVEMENT MARKER TYPE V - BY ⑰	EA	653
6600	REMOVE PAVEMENT MARKER TYPE V	EA	325
8001	STRUCTURE EXCAVATION ⑧	CY	11
10020NS	FUEL ADJUSTMENT	DOLL	155,864
10030NS	ASPHALT ADJUSTMENT	DOLL	164,272
20315ED	CLAY SOIL CAP ⑪	CY	70
23143ED	KPDES PERMIT AND TEMPORARY EROSION CONTROL	LS	1
23131ER701	PIPELINE VIDEO INSPECTION	LF	922
23274ENIIF	TURF REINFORCEMENT MAT TYPE I	SY	3,939
	REMOVE EXISTING 12" ASBESTOS COATED WATERLINE	LF	280

### PAVING AREAS

ITEM	MAINLINE	SHOULDERS	DILLARD	MCLELLAN	OLD 31W APPR. NO. 1	MCCONNELL	CENTRAL	OLD 31W APPR. NO. 2	ELROD	BENNETT	MEMPHIS	OLD US31W TEMPORARY CONNECTOR	MAINLINE DIVERSION	TEMPORARY WIDENING	ENTRANCES COMMERCIAL ASPHALT	ENTRANCES RESIDENTIAL ASPHALT	ENTRANCES TRAFFIC BOUND BASE	TOTALS
	S Q U A R E Y A R D S																	
1.50" CL3 ASPHALT SURFACE 0.50B PG 64-22	89,267	19,391	420	1,133	885	1,120	1,956	2,648	1,840	545	1,002							120,207
1.25" CL3 ASPHALT SURFACE 0.50B PG 64-22															3,634	174		3,808
2.5" CL3 ASPHALT BASE 1.0D PG 64-22			850	2,305					3,721		2,026	2,235	3,425			174		14,736
3" CL3 ASPHALT BASE 1.0D PG 64-22	179,956	19,747												1,980				201,683
3.5" CL3 ASPHALT BASE 1.0D PG 64-22					1,800	2,244	3,949	5,398		1,103					3,634			18,128
4" CL3 ASPHALT BASE 1.0D PG 64-22	54,565																	54,565
4" CRUSHED STONE BASE	56,698		148	812					677		253	1,118	1,713	990		174		62,583
6" CRUSHED STONE BASE					650	245	447	2,023		131					3,634			7,103
CRUSHED STONE BASE (FULL DEPTH, 4" EQUIVALENT)		87,781																87,781
4" TRAFFIC BOUND BASE																	1,258	1,258
12" CRUSHED AGGREGATE SIZE 2	57,646	44,889																102,535
GEOTEXTILE FABRIC TYPE IV	115,292	89,778																205,070
ASPHALT SEAL AGGREGATE (TWO APPLICATIONS)		22,750																22,750
EMULSIFIED ASPHALT RS-2 (TWO APPLICATIONS)		22,750																22,750
JPC PAVEMENT - 8"		610																610

#### NOTES

ALL ASHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② INCLUDES 1,000 TONS FOR MAINTENANCE OF TRAFFIC & ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ INCLUDES: ADDITIONAL 10,310 CY DUE TO CHANGED PAVEMENT DESIGN & 14 CY FROM PIPE SHEETS
- ④ INCLUDES: REDUCTION OF 16,263 CY DUE TO CHANGED PAVEMENT DESIGN
- ⑤ TO BE USED AT THE DISCRETION OF THE ENGINEER
- ⑥ APPROXIMATELY 53.3 ACRES
- ⑦ FOR CONTROLLING DUST CREATED BY MAINTAINING TRAFFIC ONLY
- ⑧ FOR GRAVITY RETAINING WALL LOCATED AT STA 121+25
- ⑨ FOR MAINLINE AND OLD US31W NO. 2 APPROACH TEMPORARY CONNECTORS
- ⑩ FOR BRIDGE END DRAINAGE
- ⑪ INCLUDES 210 SY FOR GEOTECHNICAL NOTES NO. 11
- ⑫ INCLUDES 279 CY FOR GEOTECHNICAL NOTES NO. 11
- ⑬ INCLUDES 4,314 CY EMBANKMENT BENCHING
- ⑭ FOR REMOVAL OF OLD BRIDGE ACROSS RAILROAD
- ⑮ INCLUDES 4,803 TONS FOR SPECIAL SUBGRADE DRAINAGE SITUATIONS
- ⑯ INCLUDES 5,000 SY FOR SPECIAL SUBGRADE DRAINAGE SITUATIONS
- ⑰ STRIPING AND SIGNING PLANS ARE NOT INCLUDED IN THIS PLANSET AND WILL BE PROVIDED TO THE CONTRACTOR IN THE FUTURE

#### EARTHWORK TOTALS

ROADWAY EXCAVATION: 60,751 CY ③ ⑫  
 EMBANKMENT IN PLACE: 169,247 CY ④  
 SURFACE DITCH: 3,744 CY  
 EMBANKMENT BENCHING: 4,314 CY

### PAVING SUMMARY

ITEM CODE	ITEM	UNIT	TOTAL PROJECT
3	CRUSHED STONE BASE ①	TON	37,035
20	TRAFFIC BOUND BASE ②	TON	1,252
78	CRUSHED AGGREGATE SIZE 2 ① ⑮	TON	75,552
100	ASPHALT SEAL AGGREGATE	TON	228
190	LEVELING & WEDGING PG 64-22	TON	7,210
214	CL3 ASPHALT BASE 1.0D PG 64-22	TON	50,798
291	EMULSIFIED ASPHALT RS-2	TON	27.5
324	CL3 ASPHALT SURFACE 0.50B PG 64-22	TON	10,179
2084	JPC PAVEMENT - 8" ⑩	SY	610
2599	GEOTEXTILE FABRIC TYPE IV ⑪ ⑯	SY	210,280

FILE NAME: G:\PWORK\JONATHON.ROSS\DM54204\ROAD20CSSL.DGN  
 USER: jonathon.ross  
 DATE PLOTTED: September 7, 2011  
 E-SHEET NAME:  
 MicroStation v8.11.7.180

SCALE: 1"=NTS

GENERAL AND PAVING SUMMARY

 REVISED 10-17-2011

### GENERAL SUMMARY

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	REMOVE EXISTING 12" ASBESTOS COATED WATERLINE	LF	280

### PAVING AREAS

ITEM	MAINLINE	SHOULDERS	DILLARD	MCLELLAN	OLD 31W APPR. NO. 1	MCCONNELL	CENTRAL	OLD 31W APPR. NO. 2	ELROD	BENNETT	MEMPHIS	OLD US31W TEMPORARY CONNECTOR	MAINLINE DIVERSION	TEMPORARY WIDENING	ENTRANCES COMMERCIAL ASPHALT	ENTRANCES RESIDENTIAL ASPHALT	ENTRANCES TRAFFIC BOUND BASE	TOTALS
	S Q U A R E Y A R D S																	
1.50" CL3 ASPHALT SURFACE 0.50B PG 64-22	89,267	19,391	420	1,133	885	1,120	1,956	2,648	1,840	545	1,002							120,207
1.25" CL3 ASPHALT SURFACE 0.50B PG 64-22															3,634	174		3,808
2.5" CL3 ASPHALT BASE 1.0D PG 64-22			850	2,305					3,721		2,026	2,235	3,425		174			14,736
3" CL3 ASPHALT BASE 1.0D PG 64-22	179,956	19,747												1,980				201,683
3.5" CL3 ASPHALT BASE 1.0D PG 64-22					1,800	2,244	3,949	5,398		1,103					3,634			18,128
4" CL3 ASPHALT BASE 1.0D PG 64-22	54,565																	54,565
4" CRUSHED STONE BASE	56,698		148	812					677		253	1,118	1,713	990		174		62,583
6" CRUSHED STONE BASE					650	245	447	2,023		131					3,634			7,103
CRUSHED STONE BASE (FULL DEPTH, 4" EQUIVALENT)		87,781																87,781
4" TRAFFIC BOUND BASE																	1,258	1,258
12" CRUSHED AGGREGATE SIZE 2	57,646	44,889																102,535
GEOTEXTILE FABRIC TYPE IV	115,292	89,778																205,070
ASPHALT SEAL AGGREGATE (TWO APPLICATIONS)		22,750																22,750
EMULSIFIED ASPHALT RS-2 (TWO APPLICATIONS)		22,750																22,750
JPC PAVEMENT - 8"		610																610

#### NOTES

ALL ASHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② INCLUDES 1,000 TONS FOR MAINTENANCE OF TRAFFIC & ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ INCLUDES: ADDITIONAL 10,310 CY DUE TO CHANGED PAVEMENT DESIGN & 14 CY FROM PIPE SHEETS
- ④ INCLUDES: REDUCTION OF 16,263 CY DUE TO CHANGED PAVEMENT DESIGN
- ⑤ TO BE USED AT THE DISCRETION OF THE ENGINEER
- ⑥ APPROXIMATELY 53.3 ACRES
- ⑦ FOR CONTROLLING DUST CREATED BY MAINTAINING TRAFFIC ONLY
- ⑧ FOR GRAVITY RETAINING WALL LOCATED AT STA 121+25
- ⑨ FOR MAINLINE AND OLD US31W NO. 2 APPROACH TEMPORARY CONNECTORS
- ⑩ FOR BRIDGE END DRAINAGE
- ⑪ INCLUDES 210 SY FOR GEOTECHNICAL NOTES NO. 11
- ⑫ INCLUDES 279 CY FOR GEOTECHNICAL NOTES NO. 11
- ⑬ INCLUDES 4,314 CY EMBANKMENT BENCHING
- ⑭ FOR REMOVAL OF OLD BRIDGE ACROSS RAILROAD
- ⑮ INCLUDES 4,803 TONS FOR SPECIAL SUBGRADE DRAINAGE SITUATIONS
- ⑯ INCLUDES 5,000 SY FOR SPECIAL SUBGRADE DRAINAGE SITUATIONS
- ⑰ STRIPING AND SIGNING PLANS ARE NOT INCLUDED IN THIS PLANSET AND WILL BE PROVIDED TO THE CONTRACTOR IN THE FUTURE

#### EARTHWORK TOTALS

ROADWAY EXCAVATION: 60,751 CY ③ ⑫

EMBANKMENT IN PLACE: 169,247 CY ④

SURFACE DITCH: 3,744 CY

EMBANKMENT BENCHING: 4,314 CY

### PAVING SUMMARY

ITEM CODE	ITEM	UNIT	TOTAL PROJECT
3	CRUSHED STONE BASE ①	TON	37,035
20	TRAFFIC BOUND BASE ②	TON	1,252
78	CRUSHED AGGREGATE SIZE 2 ① ⑮	TON	75,552
100	ASPHALT SEAL AGGREGATE	TON	228
190	LEVELING & WEDGING PG 64-22	TON	7,210
214	CL3 ASPHALT BASE 1.0D PG 64-22	TON	50,798
291	EMULSIFIED ASPHALT RS-2	TON	27.5
324	CL3 ASPHALT SURFACE 0.50B PG 64-22	TON	10,179
2084	JPC PAVEMENT - 8" ⑩	SY	610
2599	GEOTEXTILE FABRIC TYPE IV ⑪ ⑯	SY	210,280

SCALE: 1"=NTS

GENERAL AND PAVING SUMMARY

FILE NAME: G:\PWORK\JONATHON.ROSS\DM54204N.R0020CSUL.DGN

USER: jonathon.ross  
DATE PLOTTED: September 7, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

### PIPE DRAINAGE SUMMARY

SHEET NO.		SKEW	DESIGN PH LEVEL	MAX COVER HT	24" METAL END SECTION TYPE 1	CURB BOX INLET TYPE B	18" S&F BOX I/O	24" S&F BOX I/O	30" S&F BOX I/O	JUNCTION BOX	30" EQUIV. METAL END SECTION TYPE 3	15" STORM SEWER PIPE	18" CULVERT PIPE	18" EQUIV. CULVERT PIPE	24" CULVERT PIPE	30" CULVERT PIPE	30" EQUIV. CULVERT PIPE	42" CULVERT PIPE	15" ENT PIPE	15" EQUIV. ENT PIPE	18" ENT PIPE	18" EQUIV. ENT PIPE	24" ENT PIPE	24" EQUIV. ENT PIPE	30" ENT PIPE	30" EQUIV. ENT PIPE	CLASS A CONCRETE	STEEL REINFORCING	CHANNEL LINING CLASS III	GEOTEXTILE FABRIC TYPE IV FOR PIPE	REMARKS	
ITEM CODE					1373	1480	1450	1451	1452	1650	21588NN	521	462	491	464	466	494	469	440	450	441	451	443	452	445	454	8100	8150	2484	2600		
UNIT TO BID					EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	CY	LBS	TON	SY		
R5	33+95		6.0	3.68										107.5													2.76	26		317		
R9	50+62	8° LT	6.0	7.15			2						137																11	403		
R9	63+50		5.8	5.74				2						111														22	401			
R13	84+85	5° 20' LT	5.9	7.0				2						114														14	412			
R13	92+75		5.9	6.24			2						127															11	374			
R15	97+75		5.9	1.82								48														.75	7	6	125			
R15	98+19	49° 30' RT	5.9	3.89		2						121																	316		CBI TYPE B-3, 2 (H=3.8)	
R17	119+80		6.4	5.35				2							122													20	522			
R19	130+00		6.2	3.89			2						104.5															13	308			
R19	132+75		6.2	4.48			2						103															13	303			
R21	141+00		6.2	3.1			2						102															11	300			
R17	112+62.09-112+89.25				1					1					28														101		JUNCTION BOX (NO. 7)	
ENTRANCES																																
R5	RT 23+57																		34													
R5	RT 26+88																		35													
R7	LT 38+26																								33							
R7	LT 40+71																					33										
R7	RT 40+82																			63												
R9	RT 56+19																			53												
R9	RT 57+13																					44										
R9	RT 57+92																							52								
R9	RT 59+65																							68								
R11	RT 70+44																							49								
R11	RT 76+80																				71											
R13	RT 80+53																								63							
R13	RT 84+04																								62							
R13	LT 93+21																						50									
R17	LT 111+75																								80							
R17	LT 114+99																								144							
R17	RT 115+01																									132						
R19	RT 133+62																								48							
APPROACHES																																
R5	MCLELLAN 49+35	16° 37' RT	5.9	3.2							2						81										.56		18	347		
R9	OLD 31W #1 50+87	15° RT	5.9	6.3			2						84																18	247		
R11	MCCONNELL 49+29		6.0	3.52				2						131															23	473		
R13	CENTRAL 49+14	22° 20' LT	5.9	9.17														24								6.41	319	33	191			
R15	OLD 31W #2 50+99	44° 30' LT	6.0	11.06			1						131													.9	8	16	386			
R17	ELROD 51+25		6.4	6.1				1						84															15	303		
R21	BENNETT 50+56	14° 20' LT	6.2	1.86									83.5													3	24	16	246			
<b>TOTAL PROJECT</b>					2	2	13	7	2	2	2	169	872	107.5	468	122	81	24	69	116	71	77	50	474	125	132	14.38	384	260	6075		

FILE NAME: G:\PWORK\JONATHON.ROSS\DM54204\N.ROD200DUL.DGN

USER: jonathon.ross  
DATE PLOTTED: August 17, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

NTS

PIPE SUMMARY

 REVISED 10-17-2011

### PIPE DRAINAGE SUMMARY

SHEET NO.	SKEW	DESIGN PH LEVEL	MAX COVER HT	PIPE TYPES										CONCRETE				STEEL REINFORCING		CHANNEL LINING		GEOTEXTILE FABRIC		REMARKS								
				24" METAL END SECTION TYPE 1	CURB BOX INLET TYPE B	18" S&F BOX I/O	24" S&F BOX I/O	30" S&F BOX I/O	JUNCTION BOX	30" EQUIV. METAL END SECTION TYPE 3	15" STORM SEWER PIPE	18" CULVERT PIPE	18" EQUIV. CULVERT PIPE	24" CULVERT PIPE	30" CULVERT PIPE	30" EQUIV. CULVERT PIPE	42" CULVERT PIPE	15" ENT PIPE	15" EQUIV. ENT PIPE	18" ENT PIPE	18" EQUIV. ENT PIPE	24" ENT PIPE	24" EQUIV. ENT PIPE		30" ENT PIPE	30" EQUIV. ENT PIPE	CLASS A CONCRETE	STEEL REINFORCING	CHANNEL LINING CLASS III	GEOTEXTILE FABRIC TYPE IV FOR PIPE		
ITEM CODE				1373	1480	1450	1451	1452	1650	21588NN	521	462	491	464	466	494	469	440	450	441	451	443	452	445	454	8100	8150	2484	2600			
UNIT TO BID				EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	CY	LBS	TON	SY		
R5	33+95		6.0	3.68								107.5															2.76	26		317		
R9	50+62	8° LT	6.0	7.15			2				137																		11	403		
R9	63+50		5.8	5.74									111																22	401		
R13	84+85	5° 20' LT	5.9	7.9									114																14	412		
R13	92+75		5.9	6.24			2				127																		11	374		
R15	97+75		5.9	1.82																						.75	7	6		125		
R15	98+19	49° 30' RT	5.9	3.89		2					121																			316	CBI TYPE B-3, 2 (H=3.8)	
R17	119+80		6.4	5.35				2							122														20	522		
R19	130+00		6.2	3.89			2				104.5																		13	308		
R19	132+75		6.2	4.48			2				103																		13	303		
R21	141+00		6.2	3.89			2				102																		11	300		
R17	112+62.09-112+89.25	ENTRANCES			1				1				28																	101	JUNCTION BOX (NO. 7)	
R5	RT 23+57																34															
R5	RT 26+88																35															
R7	LT 38+26																															
R7	LT 40+71																															
R7	RT 40+82																															
R9	RT 56+19																															
R9	RT 57+13																															
R9	RT 57+92																															
R9	RT 59+65																															
R11	RT 70+44																															
R11	RT 76+80																															
R13	RT 80+53																															
R13	RT 84+04																															
R13	LT 93+21																															
R17	LT 111+75																															
R17	LT 114+99																															
R17	RT 115+01																															
R19	RT 133+62																															
APPROACHES																																
R5	MCLELLAN 49+35	16° 37' RT	5.9	3.2												81											.56		18	347		
R9	OLD 31W #1 50+87	15° RT	5.9	6.3			2				84																		18	247		
R11	MCCONNELL 49+29		6.0	3.52					2				131																23	473		
R13	CENTRAL 49+14	22° 20' LT	5.9	9.17																						6.41	319	33	191			
R15	OLD 31W #2 50+99	44° 30' LT	6.0	11.06				1			131															.9	8	16	386			
R17	ELROD 51+25		6.4	6.1					1					84															15	303		
R21	BENNETT 50+56	14° 20' LT	6.2	1.86							83.5																					
<b>TOTAL PROJECT</b>						2	2	13	7			169	872	107.5	468	122	81	24	69	116	71	77	50	474	125	132	14.38	384	260	6075		

FILE NAME: G:\PWORK\JONATHON.ROSS\DM54204\N.R00200SL.DGN

USER: jonathon.ross  
DATE PLOTTED: August 17, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

NTS

PIPE SUMMARY

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-111+60	SPCL	TRM-TY 1		116 SY
120+50-121+50	SPCL			

REMOVE EXISTING 30' ENTRANCE STA 118+56.97 (INCIDENTAL TO CONTRACT)

LEON TARTER (SINGLE)  
 VVI FULFILLMENT CENTER, INC

VVI FULFILLMENT CENTER, INC

MAINLINE STA. 122+18.48=  
 ELROD ROAD STA 50+00.00

CAUTION:  
 NO EXCAVATION ALLOWED  
 OVER EXISTING TELEPHONE LINE

STA	WIDTH	PVMNT	ENT TYPE	ENT PIPE	RADIUS	PAV AREA	CUT/FILL
111+75	50'	ASPHALT	COMM	80'-24"E @ 3.5%	25'	609.7 SY	20/47 CY
114+99	46'	ASPHALT	COMM	(2)72'-24"E @ 2.3%	25'	357.4 SY	31/14 CY
121+92	36'	ASPHALT	COMM		50'	325.9 SY	40/0 CY

INLET ELEV: 550.43

ENTRANCE PI 50+95.08  
 Delta 50°46'41"  
 T23.73  
 L44.31  
 R50.00  
 E5.35

OUTLET ELEV: 548.43

STA 116+90 TO STA 118+70 STA 118+70 TO STA 121+82  
 CONST. RT TURN TAPER CONST. RT TURN LANE

CONST ~ RETAINING WALL GRAVITY TYPE  
 NON-REINFORCED - 6' H TOP ELEV.: 549.50  
 RT 85.93 STA 121+00.00 -  
 RT 79.85 STA 121+08.10 -  
 RT 78.62 STA 121+18.45 -  
 RT 96.69 STA 121+31.98 -  
 RT 101.09 STA 121+30.10 -

ADJUST SIDE SLOPES AS NEEDED TO INTERSECT TOP OF WALL

- ① ARC LENGTH: 1080.73  
RADIUS: 2914.29  
CHORD: N42°47'26"E  
CHORD DISTANCE: 1074.55
- ② SPIRAL LENGTH: 201.74  
CHORD: N30°50'41"E  
CHORD DISTANCE: 201.73
- ③ N30°11'01"W - 15.63
- ④ S59°48'59"E - 50.00
- ⑤ N30°11'01"E - 4.86
- ⑥ S37°06'56"E - 374.24
- ⑦ N47°37'33"W - 101.83
- ⑧ N41°59'09"W - 247.84
- ⑨ S61°25'49"E - 31.37
- ⑩ S30°11'01"E - 80.15
- ⑪ SPIRAL LENGTH: 198.25  
CHORD: S30°51'23"W  
CHORD DISTANCE: 198.24
- ⑫ ARC LENGTH: 162.29  
RADIUS: 2814.29  
CHORD: S33°51'13"W  
CHORD DISTANCE: 162.26
- ⑬ N30°11'01"W - 1503.19
- ⑭ N30°11'01"W - 1418.79
- ⑮ N37°07'08"W - 395.47
- ⑯ N30°11'01"E - 15.97
- ⑰ N59°48'59"W - 50.00

CONSTRUCT 22' EDGE KEY @ ELROD STA 55+00

REMOVE GUARDRAIL:  
 LT STA 110+00 TO LT STA 111+10  
 (122 LF)

STEVE HEATH  
 PAMELA HEATH (Wf.)  
 (NO DEED REQUIRED)

METAL BLDG  
 METAL BLDG

TEMP ESMT FOR ENT

PT 117+46.48

INLET ELEV: 550.43

ENTRANCE PI 50+95.08  
 Delta 50°46'41"  
 T23.73  
 L44.31  
 R50.00  
 E5.35

OUTLET ELEV: 548.43

STA 116+90 TO STA 118+70 STA 118+70 TO STA 121+82  
 CONST. RT TURN TAPER CONST. RT TURN LANE

CONST ~ RETAINING WALL GRAVITY TYPE  
 NON-REINFORCED - 6' H TOP ELEV.: 549.50  
 RT 85.93 STA 121+00.00 -  
 RT 79.85 STA 121+08.10 -  
 RT 78.62 STA 121+18.45 -  
 RT 96.69 STA 121+31.98 -  
 RT 101.09 STA 121+30.10 -

ADJUST SIDE SLOPES AS NEEDED TO INTERSECT TOP OF WALL

- ① ARC LENGTH: 1080.73  
RADIUS: 2914.29  
CHORD: N42°47'26"E  
CHORD DISTANCE: 1074.55
- ② SPIRAL LENGTH: 201.74  
CHORD: N30°50'41"E  
CHORD DISTANCE: 201.73
- ③ N30°11'01"W - 15.63
- ④ S59°48'59"E - 50.00
- ⑤ N30°11'01"E - 4.86
- ⑥ S37°06'56"E - 374.24
- ⑦ N47°37'33"W - 101.83
- ⑧ N41°59'09"W - 247.84
- ⑨ S61°25'49"E - 31.37
- ⑩ S30°11'01"E - 80.15
- ⑪ SPIRAL LENGTH: 198.25  
CHORD: S30°51'23"W  
CHORD DISTANCE: 198.24
- ⑫ ARC LENGTH: 162.29  
RADIUS: 2814.29  
CHORD: S33°51'13"W  
CHORD DISTANCE: 162.26
- ⑬ N30°11'01"W - 1503.19
- ⑭ N30°11'01"W - 1418.79
- ⑮ N37°07'08"W - 395.47
- ⑯ N30°11'01"E - 15.97
- ⑰ N59°48'59"W - 50.00

CONSTRUCT 22' EDGE KEY @ ELROD STA 55+00

MAINLINE  
 PI 111+53.44  
 Delta 28°56'52" L  
 T 619.52  
 L 1212.56  
 R 2400.00  
 E 78.67  
 e 3.8%  
 emax 6%

CONST. METAL END SECTION TY 1 - 24"  
 RT 81.06' STA. 112+89.25  
 INV. ELEV. 562.95  
 (WARP SLOPES AS DIRECTED BY ENGINEER)

REMOVE EXIST PAVEMENT & SEED  
 (52 SQ YD)

STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-119+80	2' FB SD	TRM-TY 1		889 SY
122+40-123+00	2' FB SD	TRM-TY 1		53 SY
123+00-125+00	SPCL	TRM-TY 1		178 SY

ELROD RD RT C	
50+50-51+25	2' FB SD

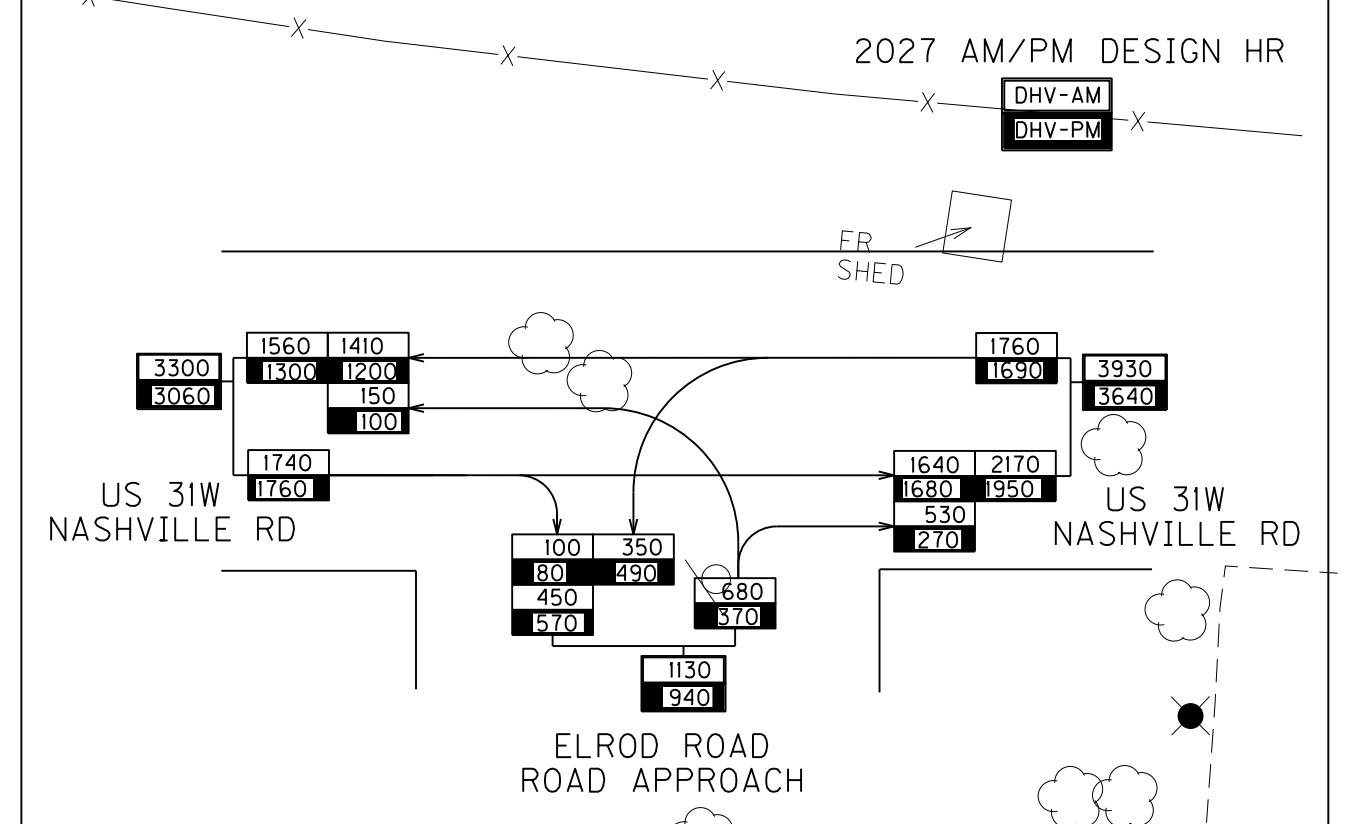
STA	WIDTH	PVMNT	ENT TYPE	ENT PIPE	RADIUS	PAV AREA	CUT/FILL
115+01	26'	ASPHALT	COMM	(2)66'-30"E @ 4.0%	25'	218.7 SY	18/69 CY

BLOCK & METAL FACTORY

OFFICE BLDG

INTERNATIONAL PAPER COMPANY

WESTERN KENTUCKY UNIVERSITY



SCALE: 1"=50'

STA 110+00 TO STA 125+00



REVISED PLAN DATE: JUNE 16, 2010  
 INTERIM REVISION DATE: DEC. 8, 2010  
**REVIS**

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-111+60	SPCL	TRM-TY 1		116 SY
120+50-121+50	SPCL			

REMOVE EXISTING 30' ENTRANCE STA 118+56.97 (INCIDENTAL TO CONTRACT)

LEON TARTER (SINGLE)  
 VVI FULFILLMENT CENTER, INC

VVI FULFILLMENT CENTER, INC

MAINLINE STA. 122+18.48=  
 ELROD ROAD STA 50+00.00

CAUTION:  
 NO EXCAVATION ALLOWED  
 OVER EXISTING TELEPHONE LINE

STA	WIDTH	PVMNT	ENT TYPE	ENT PIPE	RADIUS	PAV AREA	CUT/FILL
111+75	50'	ASPHALT	COMM	80'-24"E @ 3.5%	25'	609.7 SY	20/47 CY
114+99	46'	ASPHALT	COMM	(2)72'-24"E @ 2.3%	25'	357.4 SY	31/14 CY
121+92	36'	ASPHALT	COMM		50'	325.9 SY	40/0 CY

INLET ELEV: 550.43

OUTLET ELEV: 548.43

STA 116+90 TO STA 118+70 STA 118+70 TO STA 121+82  
 CONST. RT TURN TAPER CONST. RT TURN LANE

CONST. RETAINING WALL GRAVITY TYPE  
 NON-REINFORCED - 6' H TOP ELEV.: 549.50  
 RT 85.93 STA 121+00.00 -  
 RT 79.85 STA 121+08.10 -  
 RT 78.62 STA 121+18.45 -  
 RT 96.69 STA 121+31.98 -  
 RT 101.09 STA 121+30.10 -

ADJUST SIDE SLOPES AS NEEDED TO INTERSECT TOP OF WALL

- ① ARC LENGTH: 1080.73  
RADIUS: 2914.29  
CHORD: N42°47'26"E  
CHORD DISTANCE: 1074.55
- ② SPIRAL LENGTH: 201.74  
CHORD: N30°50'41"E  
CHORD DISTANCE: 201.73
- ③ N30°11'01"W - 15.63
- ④ S59°48'59"E - 50.00
- ⑤ N30°11'01"E - 4.86
- ⑥ S37°06'56"E - 374.24
- ⑦ N47°37'33"W - 101.83
- ⑧ N41°59'09"W - 247.84
- ⑨ S61°25'49"E - 31.37
- ⑩ S30°11'01"E - 80.15
- ⑪ SPIRAL LENGTH: 198.25  
CHORD: S30°51'23"W  
CHORD DISTANCE: 198.24
- ⑫ ARC LENGTH: 162.29  
RADIUS: 2814.29  
CHORD: S33°51'13"W  
CHORD DISTANCE: 162.26
- ⑬ N30°11'01"W - 1418.79
- ⑭ N37°07'08"W - 395.47
- ⑮ N30°11'01"E - 15.97
- ⑯ N59°48'59"W - 50.00

CONSTRUCT 22' EDGE KEY @ ELROD STA 55+00

REMOVE GUARDRAIL:  
 LT STA 110+00 TO LT STA 111+10  
 (122 LF)

STEVE HEATH  
 PAMELA HEATH (Wf.)  
 (NO DEED REQUIRED)

METAL BLDG

METAL BLDG

TEMP ESMT FOR ENT

PROPOSED & EXISTING R/W

BMG

ENTRANCE  
 PI 50+95.08  
 Delta 50°46'41"  
 T23.73  
 L44.31  
 R50.00  
 E5.35

PROPOSED R/W

CONST. JUNCTION BOX  
 (NO. 7, X=2'6", Y=2'6", H=3'3")  
 CONNECT TO EXIST. 24" RCP  
 RT. 88.43' STA. 112+62.09  
 APPROX. ELEV. 563.09  
 (MATCH EXIST. CULV. INV.)

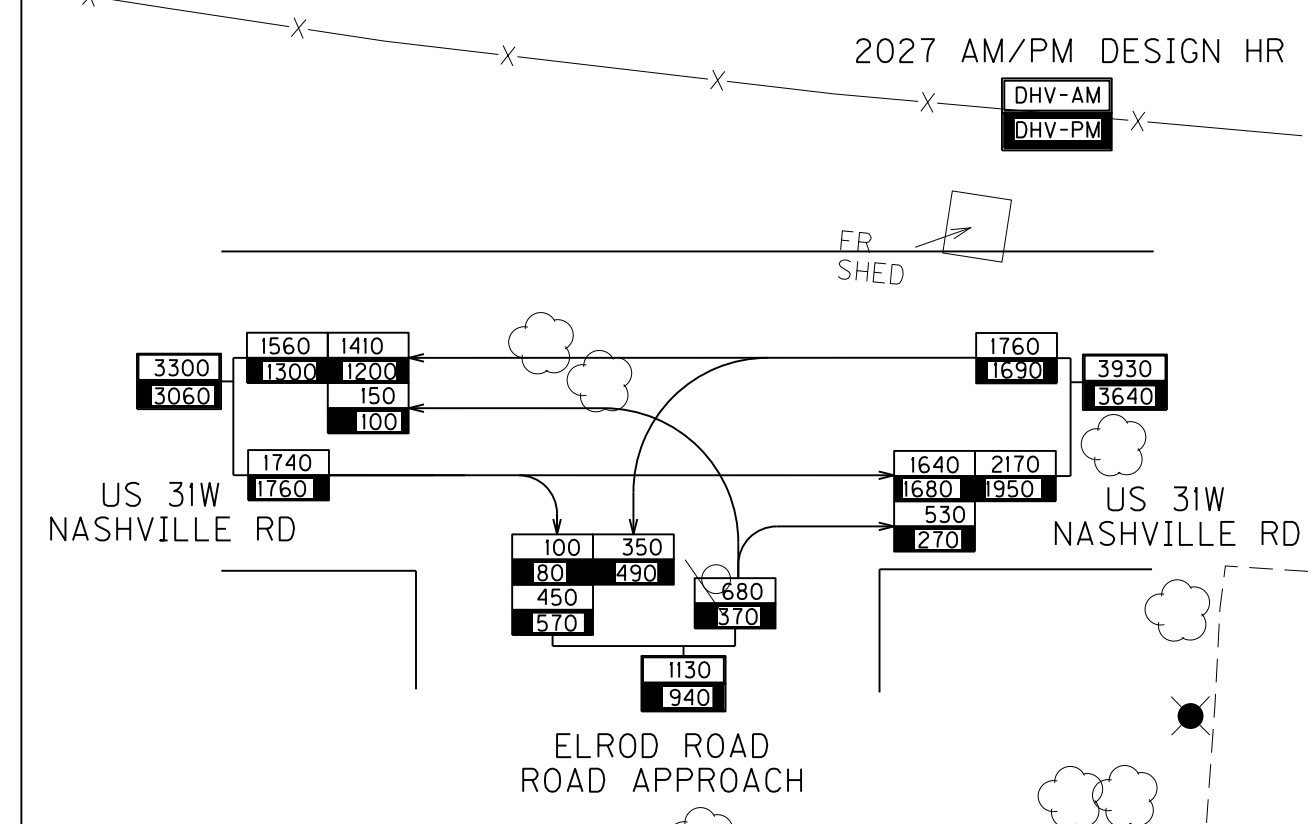
CONST. METAL END SECTION TY 1 - 24"  
 RT 81.06' STA. 112+89.25  
 INV. ELEV. 562.95  
 (WARP SLOPES AS DIRECTED BY ENGINEER)

REMOVE EXIST PAVEMENT & SEED  
 (52 SQ YD)

MAINLINE  
 PI 111+53.44  
 Delta 28°56'52" L  
 T 619.52  
 L 1212.56  
 R 2400.00  
 E 78.67  
 e 3.8%  
 emax 6%

INTERNATIONAL PAPER COMPANY

WESTERN KENTUCKY UNIVERSITY



STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-119+80	2' FB SD	TRM-TY 1		889 SY
122+40-123+00	2' FB SD	TRM-TY 1		53 SY
123+00-125+00	SPCL	TRM-TY 1		178 SY

ELROD RD RT C

50+50-51+25	2' FB SD			
-------------	----------	--	--	--

STA	WIDTH	PVMNT	ENT TYPE	ENT PIPE	RADIUS	PAV AREA	CUT/FILL
115+01	26'	ASPHALT	COMM	(2)66'-30"E @ 4.0%	25'	218.7 SY	18/69 CY

ELROD ROAD APPROACH  
 STA. 52+55 TO STA. 55+00  
 TRANSITION PROPOSED PAVEMENT  
 WIDTH (36') TO EXISTING PAVEMENT  
 WIDTH (22')

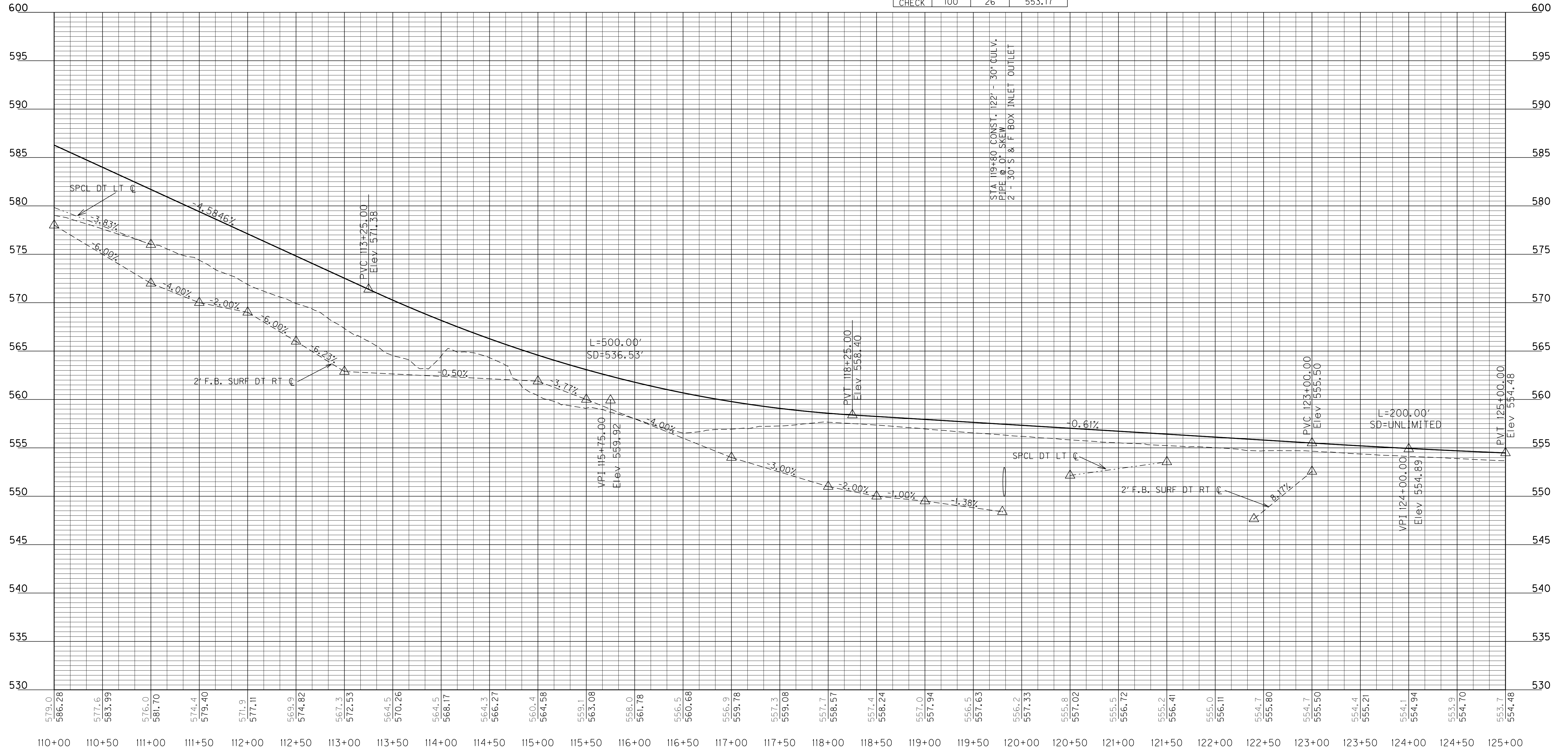
SCALE: 1"=50'

STA 110+00 TO STA 125+00

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

*Earthwork Quantities*  
 Sta. 110+50 to 125+00  
 Com = 2727 ✓  
 Emb = 12956 ✓  
 SD = 396 ✓

PIPE SITUATION 119+80 FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	21	552.78
CHECK	100	26	553.17



USER: Jonathon\_Ross  
 DATE: 13-OCT-2011  
 FILE NAME: JP\_PWP:dms\0316\RO1800PF.DGN  
 E-SHEET NAME: RO1800PF.DGN

PROFILE  
 STA. 110+00 - STA. 125+00  
 SCALE: 1"=50'

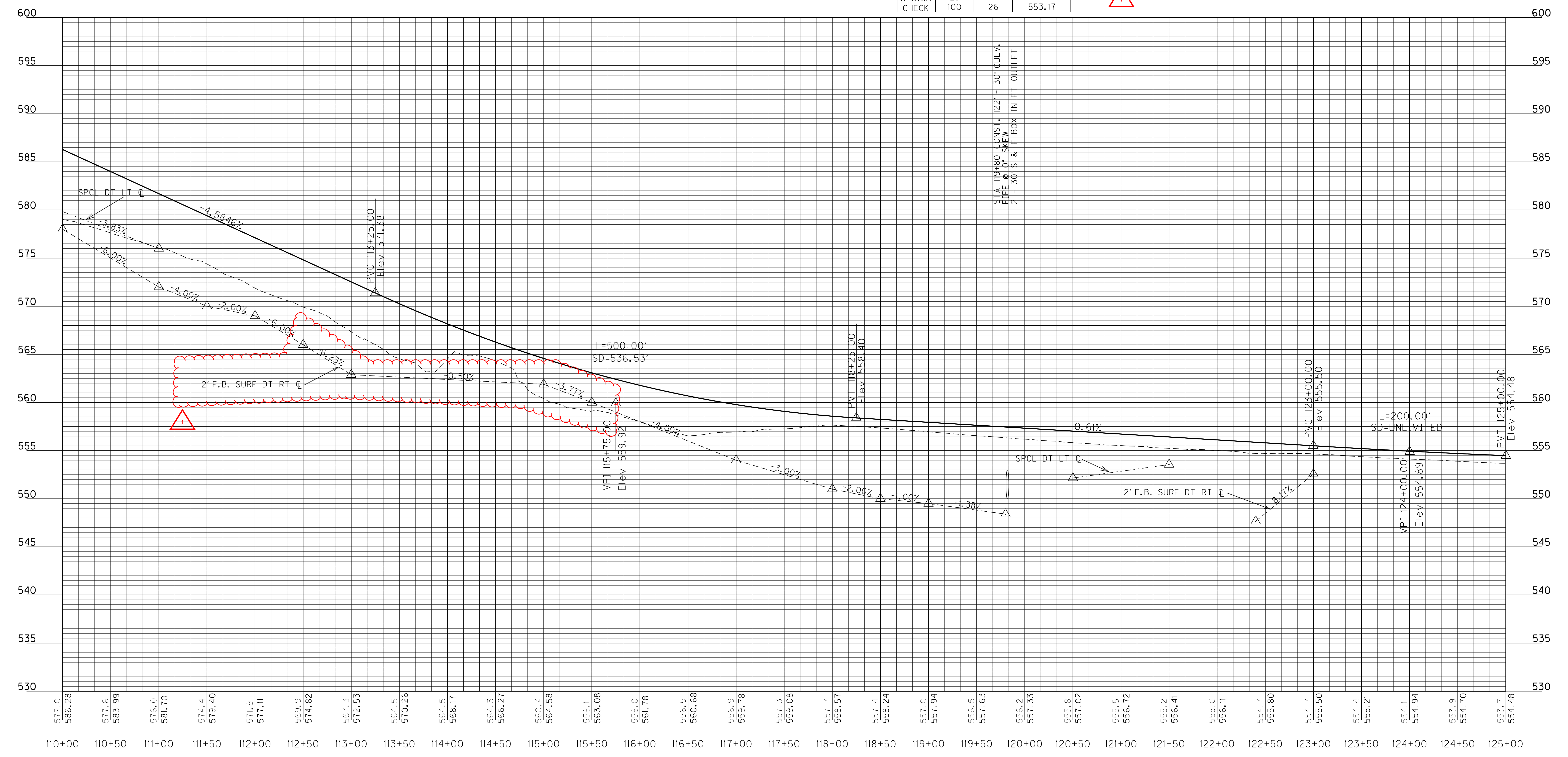
REVISD 10-17-2011

Earthwork Quantities  
Sta. 110+50 to 125+00

Com = 2727  
EWD = 12956  
SD = 396

PIPE SITUATION 119+80 FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	21	552.78
CHECK	100	26	553.17

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



USER: Jonathon\_Ross  
 DATE: 13-OCT-2011  
 FILE NAME: JP\_PWP:dms\0316\NR01800PF.DGN  
 E-SHEET NAME: R01800PF.DGN

PROFILE  
 STA. 110+00 - STA. 125+00  
 SCALE: 1"=50'

PIPE SITUATION BENNETT 50+56 FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	2	554.25
CHECK	100	3	554.38

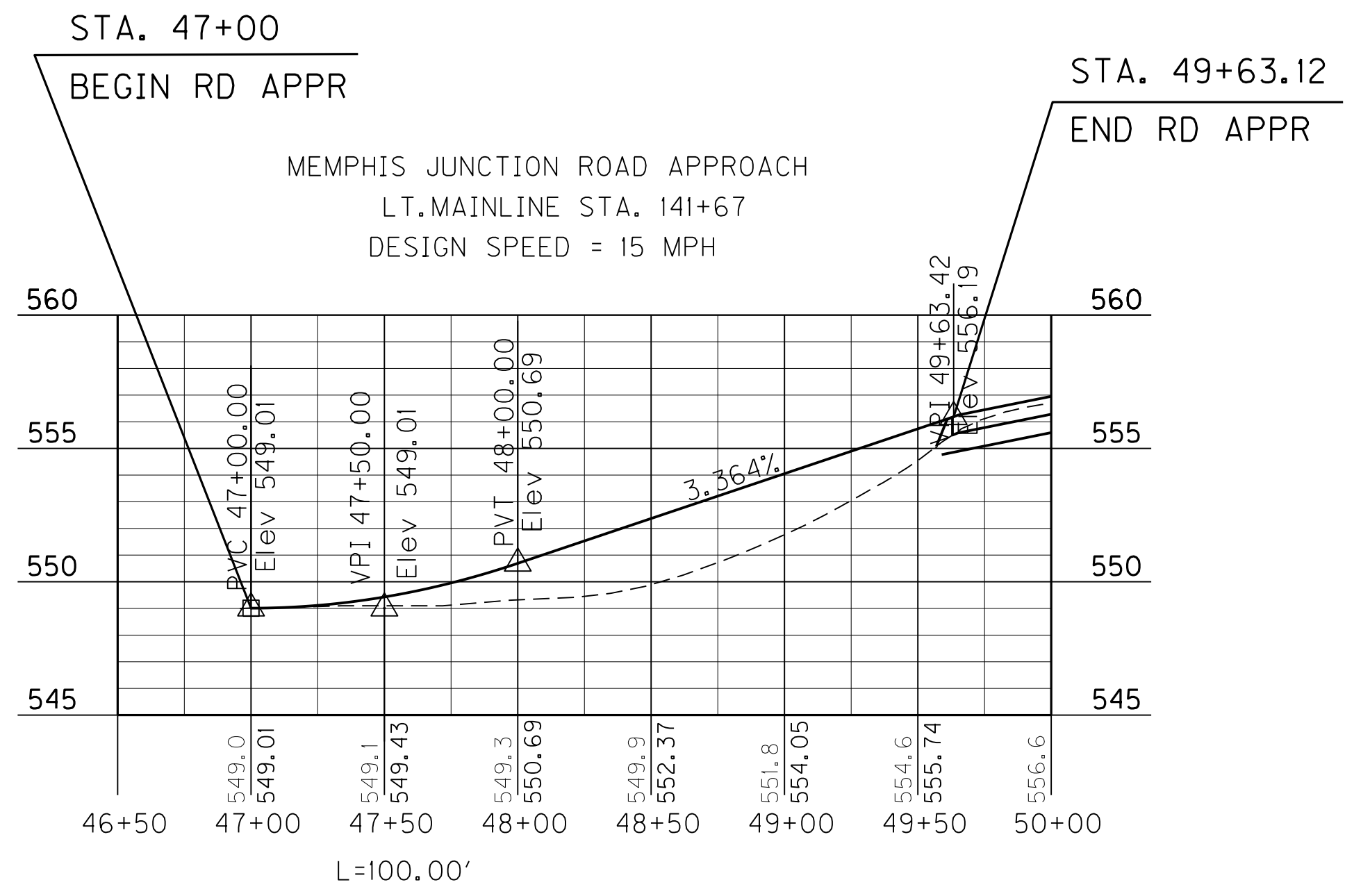
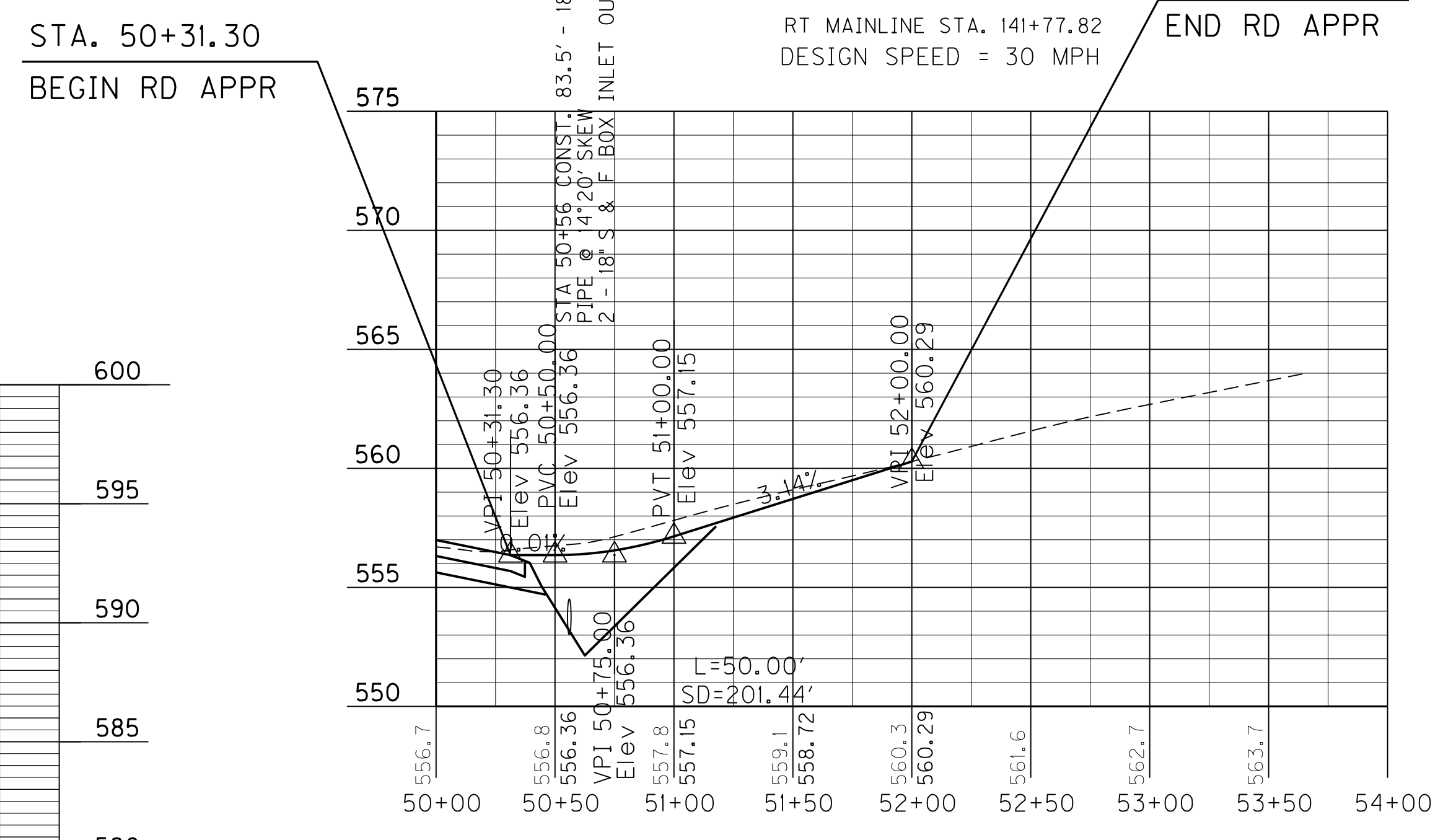
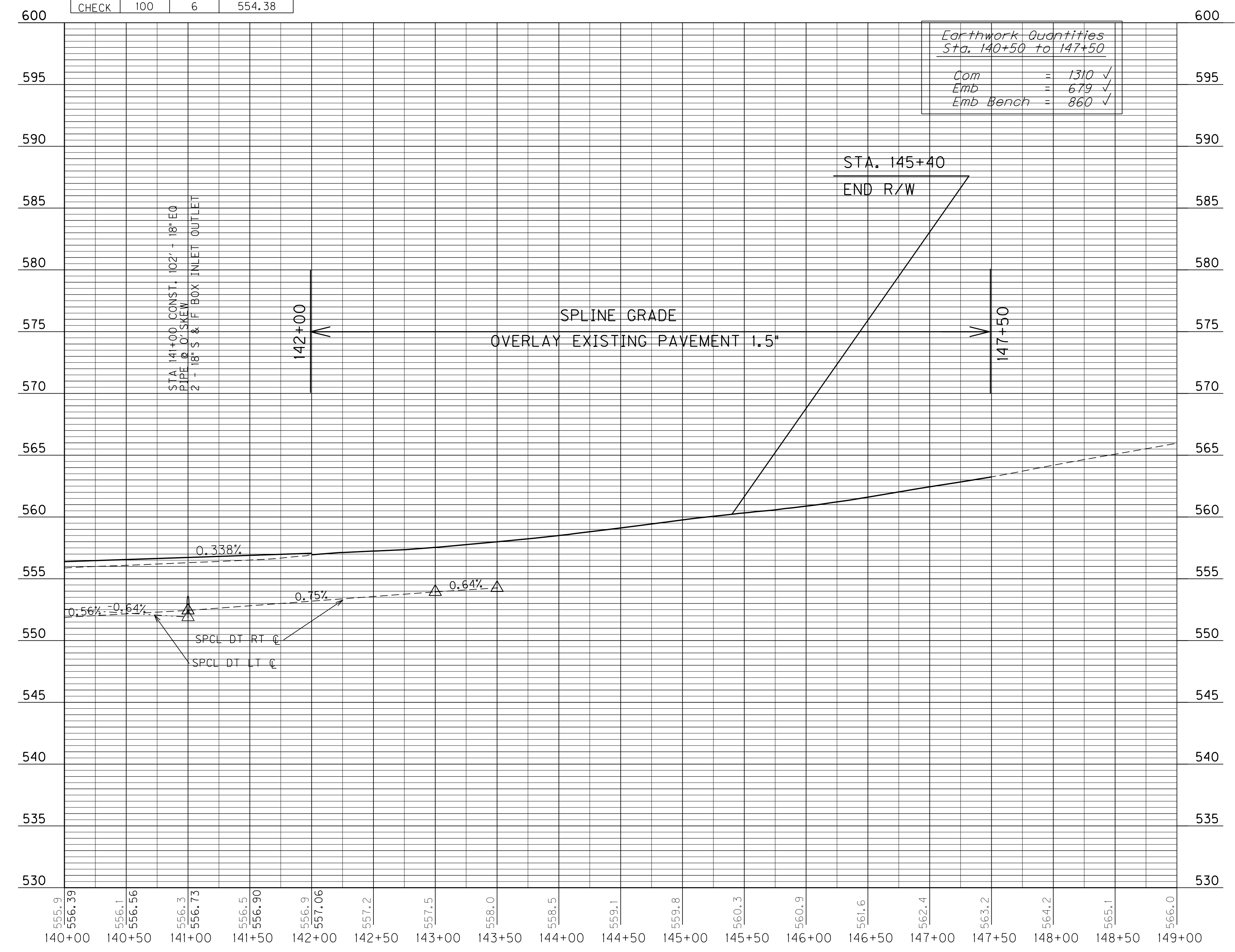
PIPE SITUATION 141+00 FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	5	553.99
CHECK	100	6	554.38

PROJECT TOTALS	
Com	= 50148 ✓
Emb	= 185510 ✓
SD	= 3744 ✓
Emb Bench	= 4314 ✓

Earthwork Quantities Sta. 140+50 to 147+50	
Com	= 1310 ✓
Emb	= 679 ✓
Emb Bench	= 860 ✓

Earthwork Quantities BENNETT LANE STA 50+50 - STA 52+00	
Com	= 234 ✓
Emb	= 5 ✓

Earthwork Quantities MEMPHIS JUNCTION RD STA 46+96 TO STA 50+00	
Com	= 10 ✓
Emb	= 641 ✓



PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

USER: Jonathon\_Ross  
 DATE: 13-OCT-2011  
 FILE NAME: IP\_PWP:dms\0316\AR02200PF.DGN  
 E-SHEET NAME: R02200PF.DGN

PROFILE  
 STA. 140+00 - STA. 147+50  
 SCALE: 1"=50'

**REVISED 10-17-2011**  
STA. 52+00

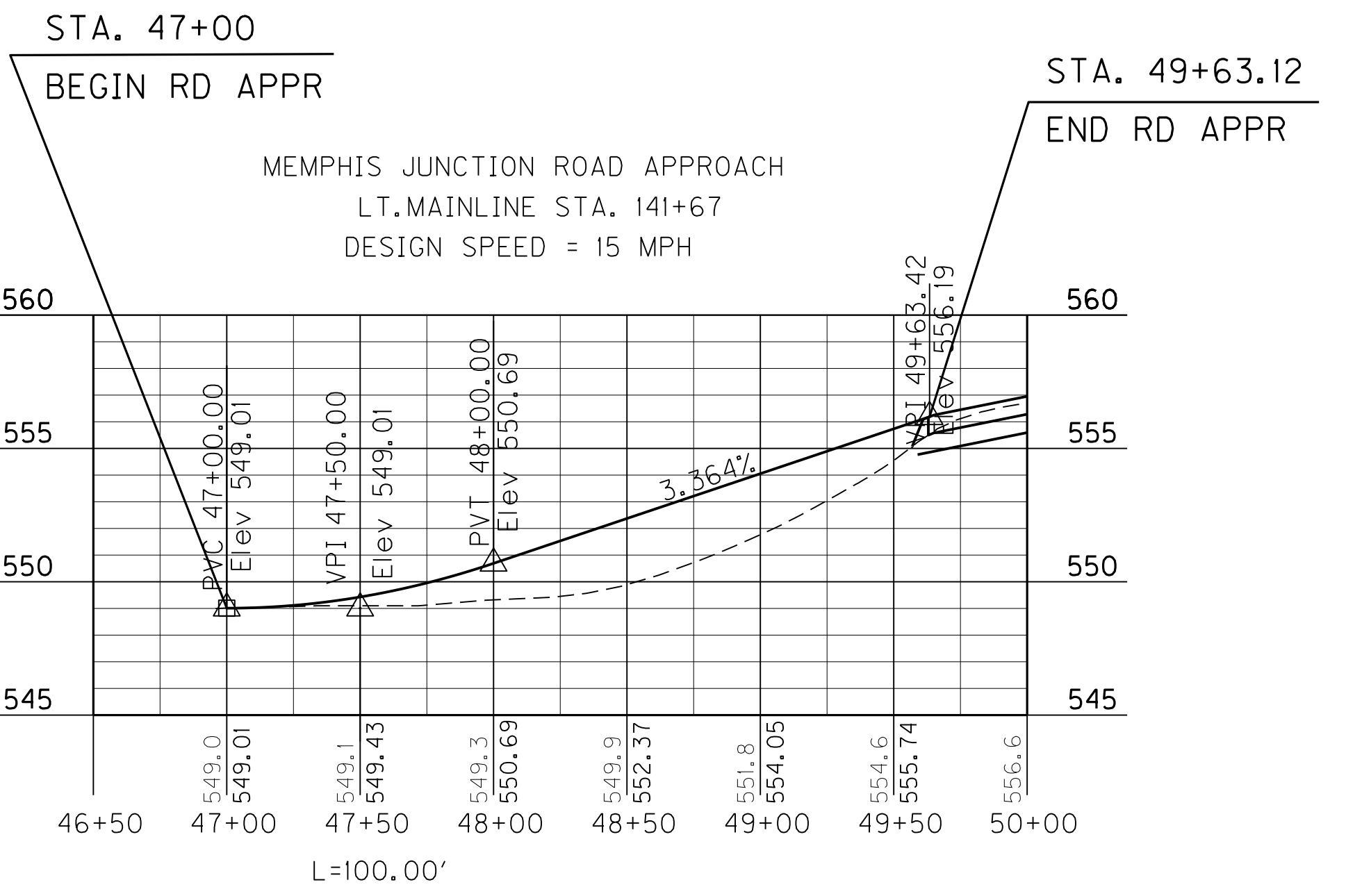
PIPE SITUATION BENNETT 50+56 FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	2	554.25
CHECK	100	3	554.38

PROJECT TOTALS	
Com	= 50148 ✓
Emb	= 185510 ✓
SD	= 3744 ✓
Emb Bench	= 4814 ✓

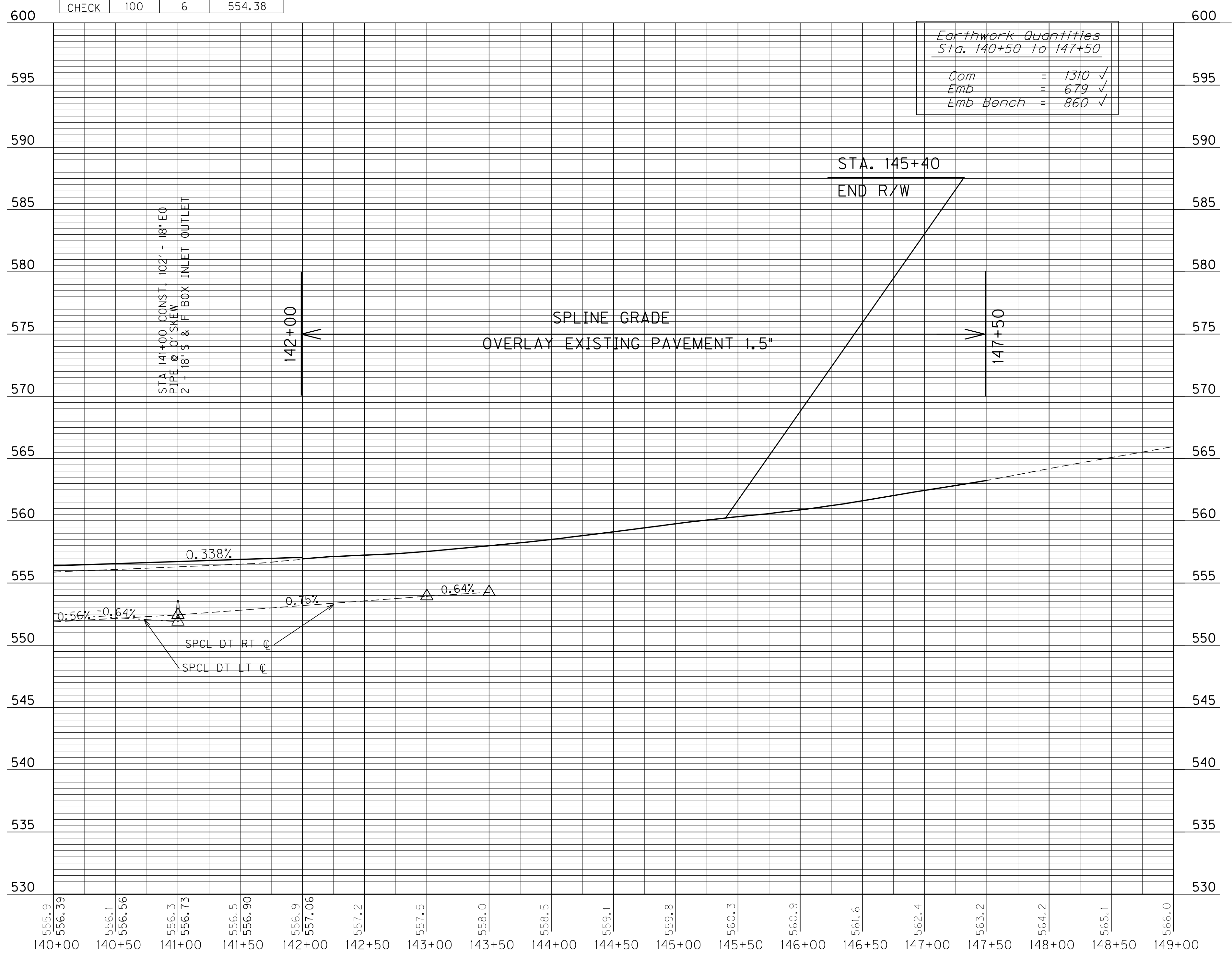
PIPE SITUATION 141+00 FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	5	553.99
CHECK	100	6	554.38

Earthwork Quantities Sta. 140+50 to 147+50	
Com	= 1310 ✓
Emb	= 679 ✓
Emb Bench	= 860 ✓

Earthwork Quantities BENNETT LANE STA 50+50 - STA 52+00	
Com	= 234 ✓
Emb	= 5 ✓



Earthwork Quantities MEMPHIS JUNCTION RD STA 46+96 TO STA 50+00	
Com	= 10 ✓
Emb	= 641 ✓



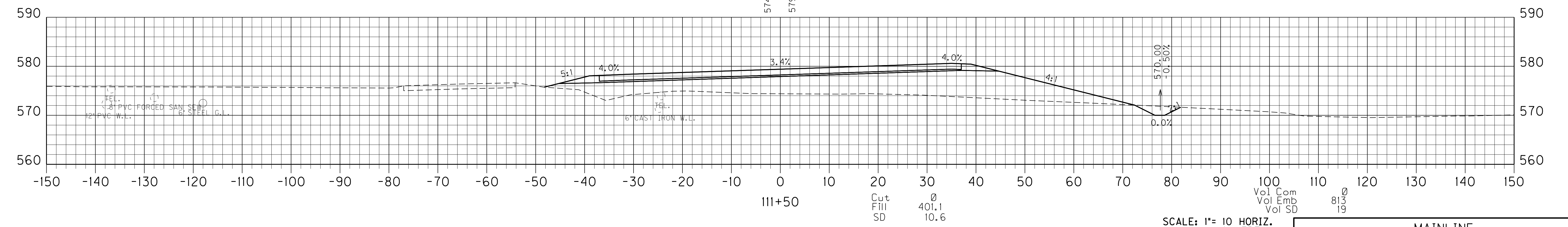
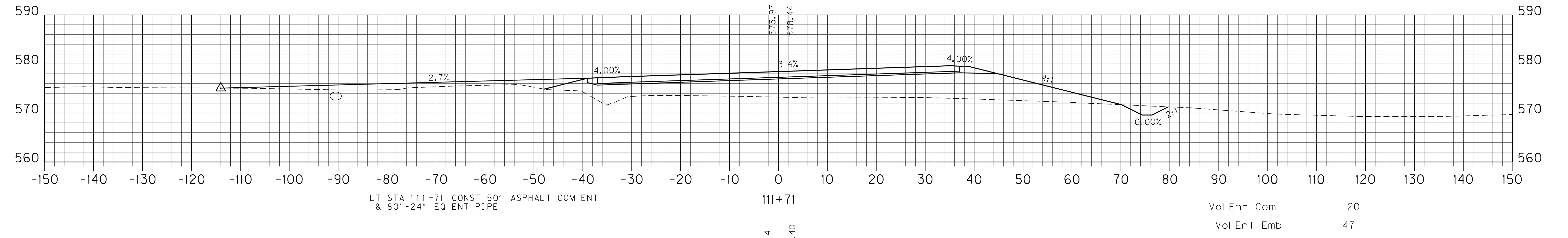
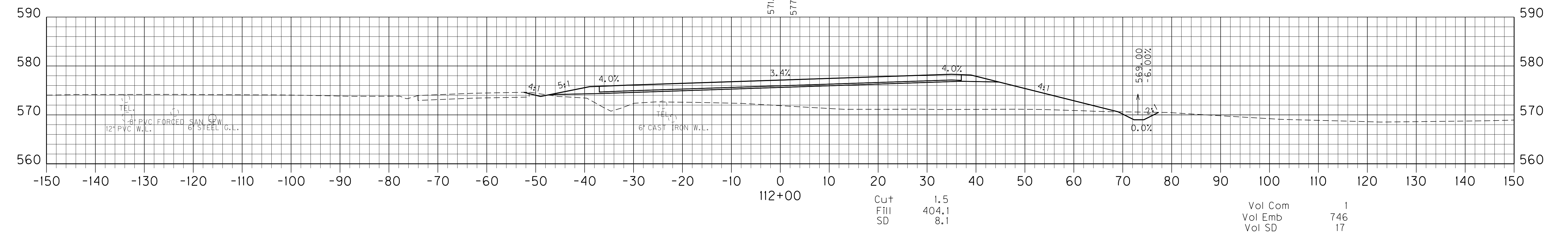
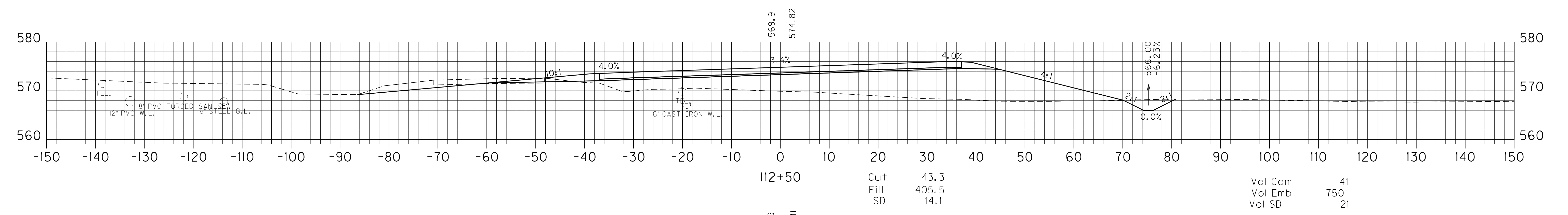
PROFILE  
STA. 140+00 - STA. 147+50

SCALE: 1"=50'

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

USER: Jonathon, Ross  
DATE: 13-OCT-2011  
FILE NAME: IP\_PWP:dms\0316\AR02200PF.DGN  
E-SHEET NAME: R02200PF.DGN

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

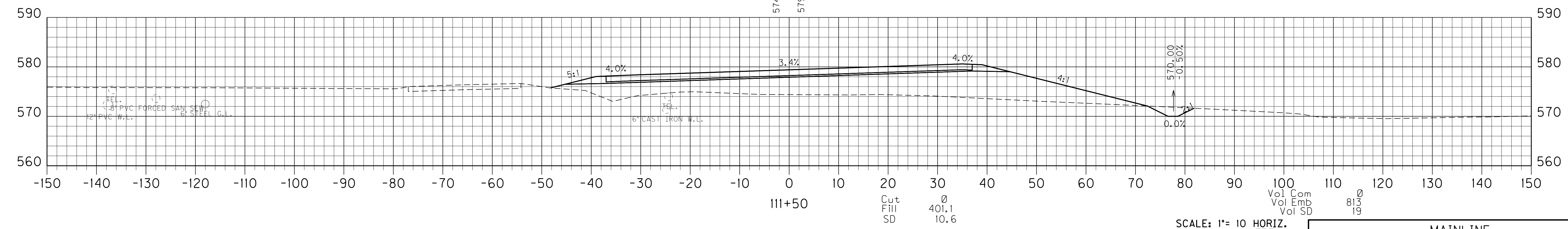
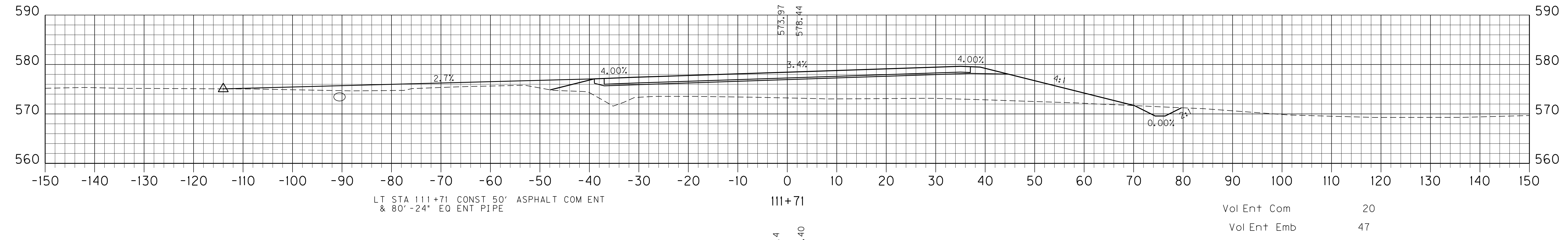
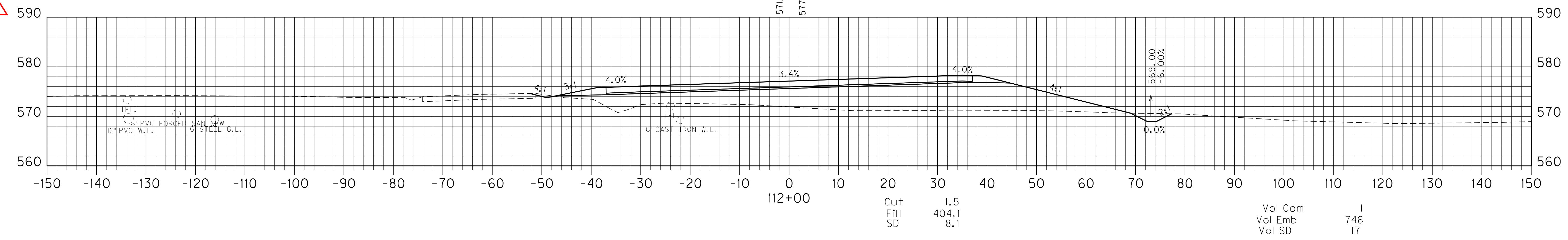
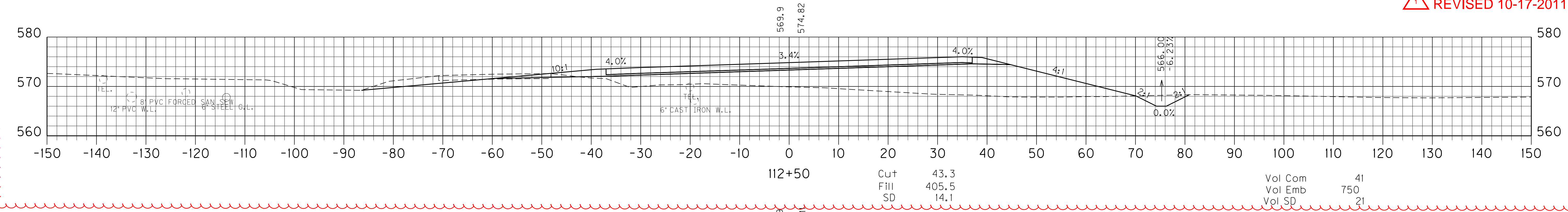


SCALE: 1"= 10 HORIZ.  
1"=10 VERT.

MAINLINE  
STA. 111+50 TO STA. 112+50

REVIS 10-17-2011

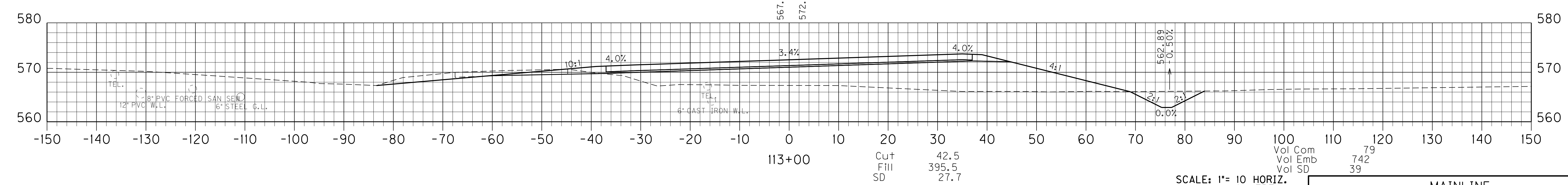
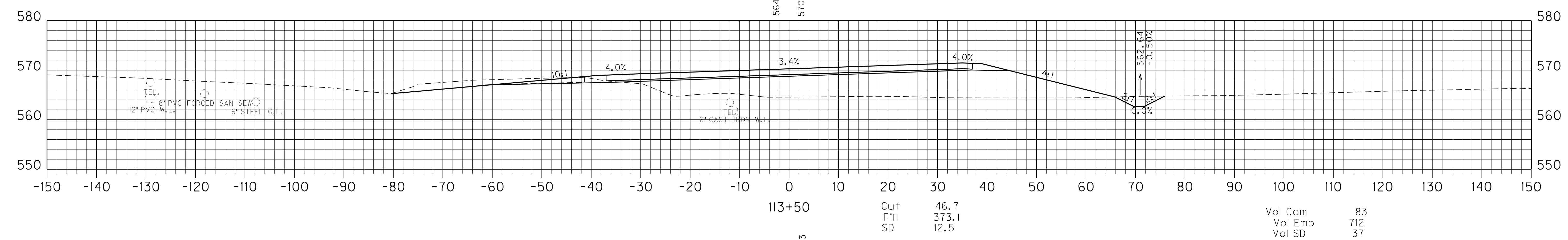
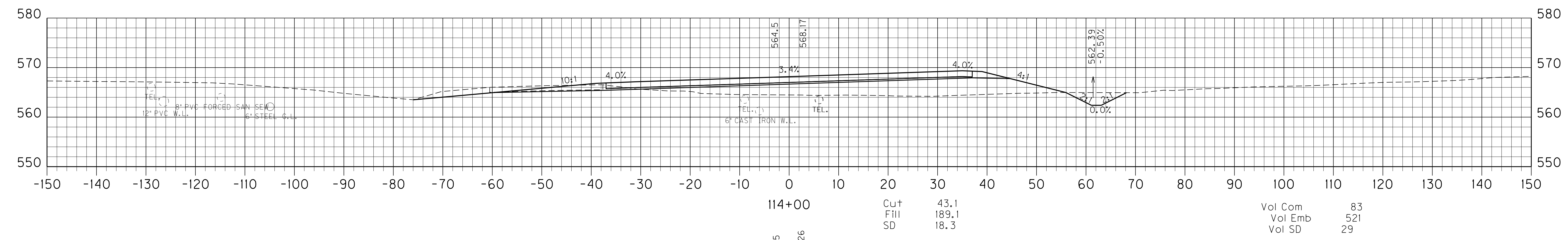
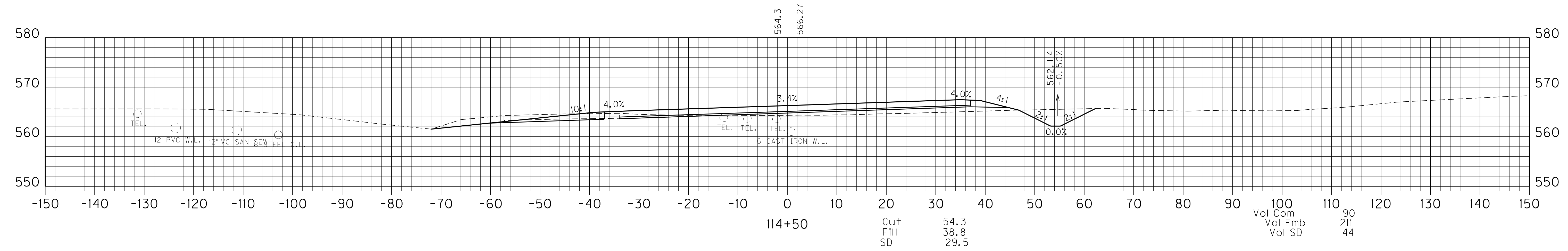
PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



SCALE: 1"= 10 HORIZ.  
 1"=10 VERT.

MAINLINE  
 STA.111+50 TO STA.112+50

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



SCALE: 1"= 10 HORIZ.  
1"=10 VERT.

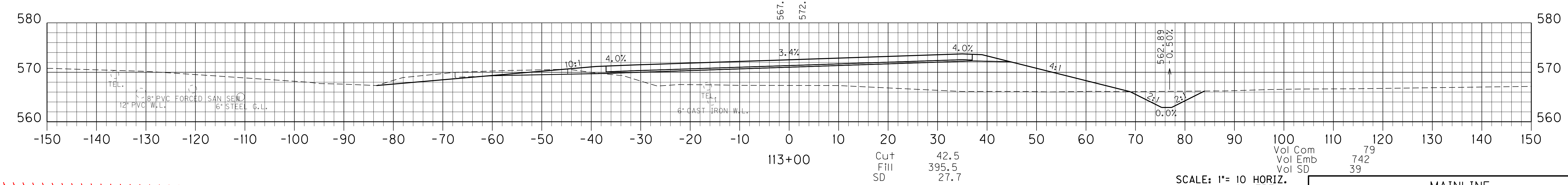
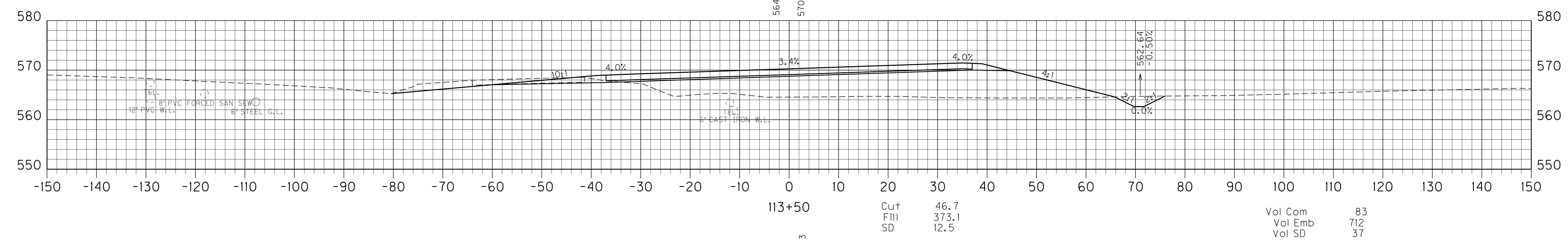
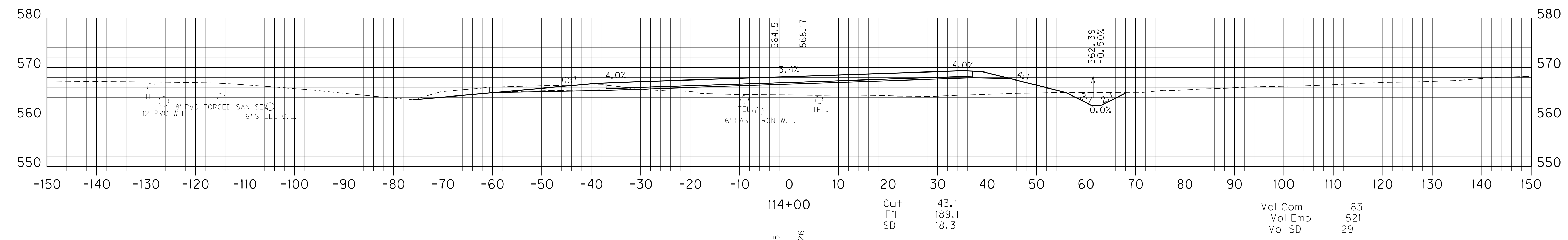
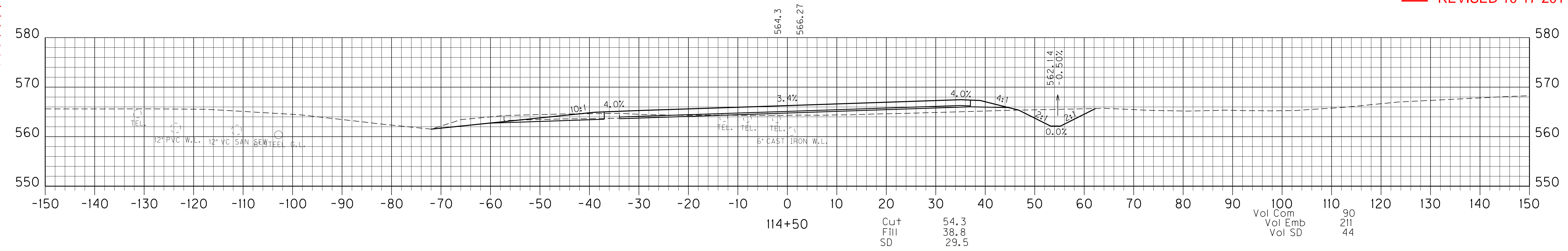
MAINLINE  
STA. 113+00 TO STA. 114+50

USER: Jonathon\_Ross  
 DATE: 13-OCT-2011  
 FILE NAME: JP\_PWP:dms\0316\X00100X5.DGN  
 E-SHEET NAME:



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PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

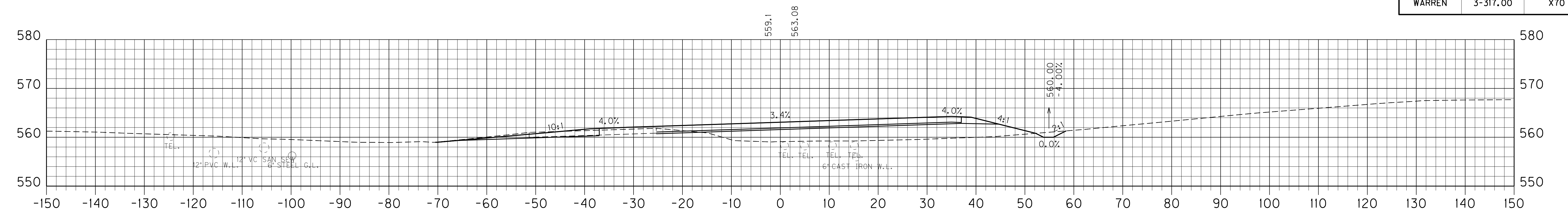


SCALE: 1"= 10 HORIZ.  
 1"=10 VERT.

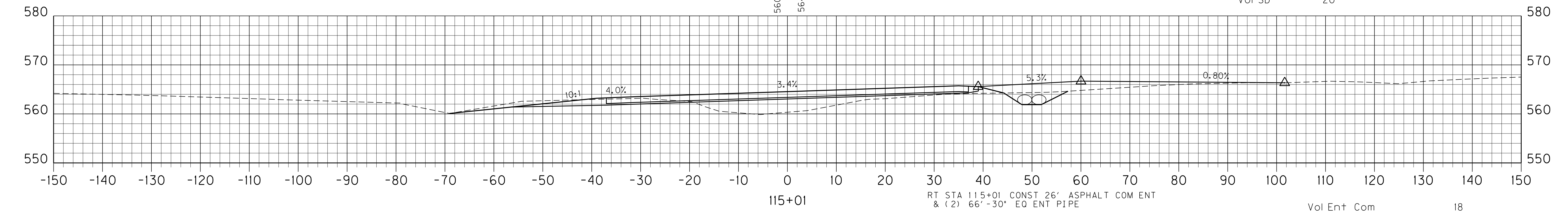
MAINLINE  
 STA. 113+00 TO STA. 114+50

USER: Jonathon\_Ross  
 DATE: 13-OCT-2011  
 FILE NAME: JP\_PWP:dms\0316\X00100X5.DGN  
 E-SHEET NAME:

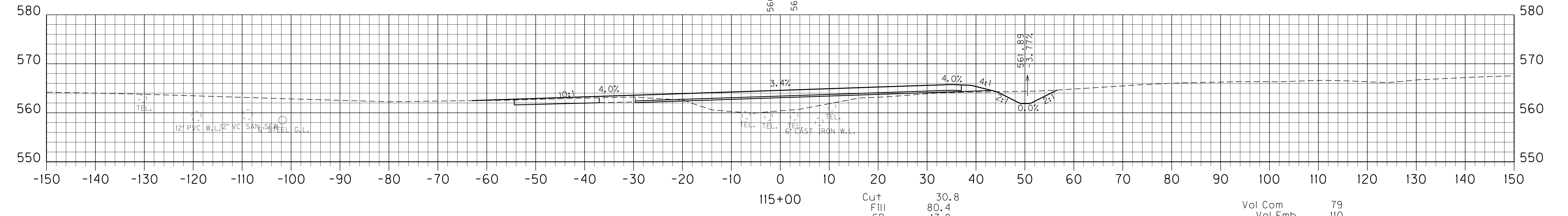
PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
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 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



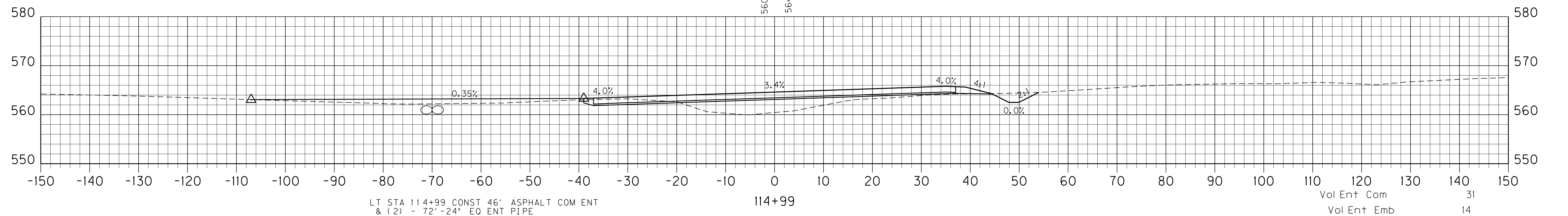
559.1	563.08			
560.4	564.58	Cut	30.6	Vol Com
		Fill	161.9	Vol Emb
		SD	4.2	Vol SD
				57
				224
				20



560.4	564.58			
		Vol Ent Com		18
		Vol Ent Emb		69



560.4	564.58			
		Cut	30.8	Vol Com
		Fill	80.4	Vol Emb
		SD	17.8	Vol SD
				79
				110
				44



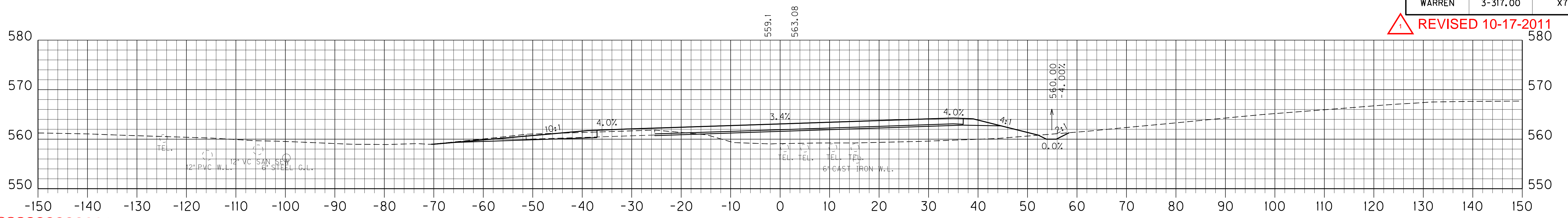
560.4	564.58			
		Vol Ent Com		31
		Vol Ent Emb		14

SCALE: 1"= 10 HORIZ.  
1"=10 VERT.

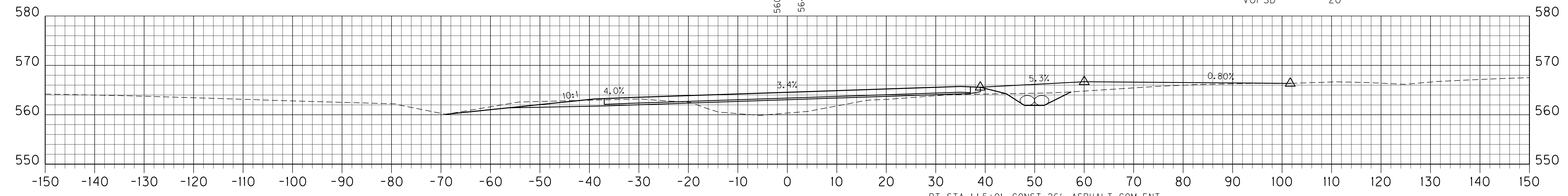
MAINLINE  
 STA.115+00 TO STA.115+50

REVISD 10-17-2011

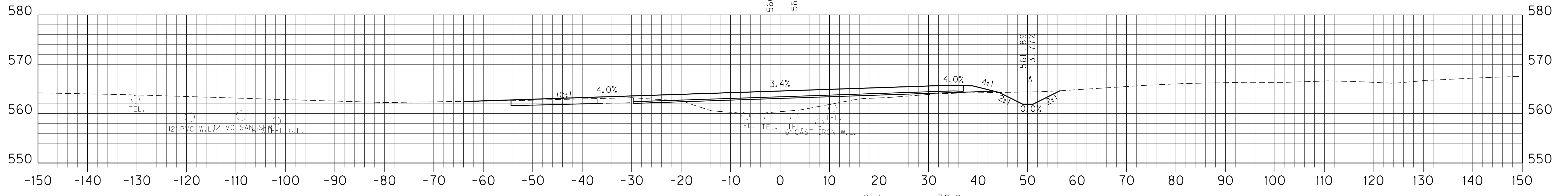
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 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



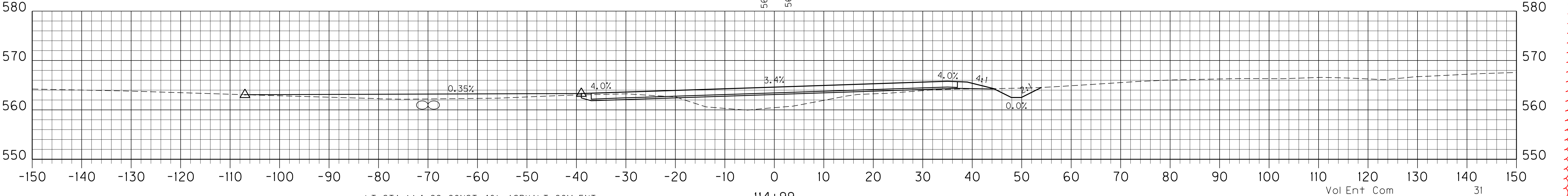
115+50	Cut	30.6	Vol Com	57
560.4	Fill	161.9	Vol Emb	224
564.58	SD	4.2	Vol SD	20



115+01	RT STA 115+01 CONST 26' ASPHALT COM ENT & (2) 66'-30" EO ENT PIPE	Vol Ent Com	18
		Vol Ent Emb	69



115+00	Cut	30.8	Vol Com	79
560.4	Fill	80.4	Vol Emb	110
564.58	SD	17.8	Vol SD	44



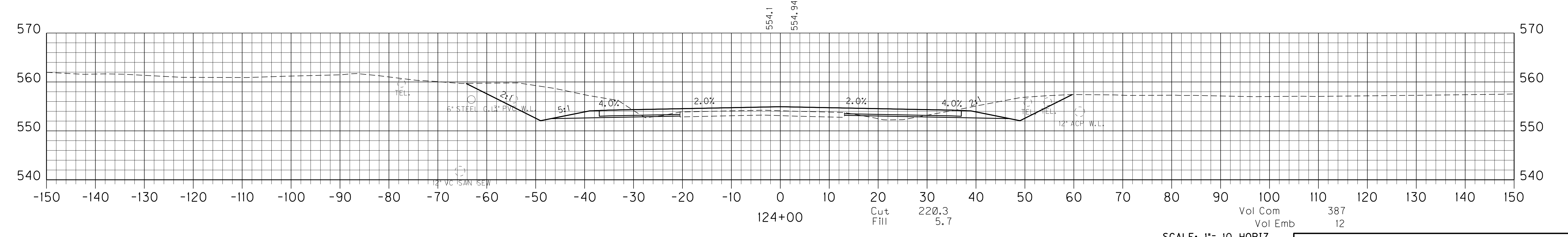
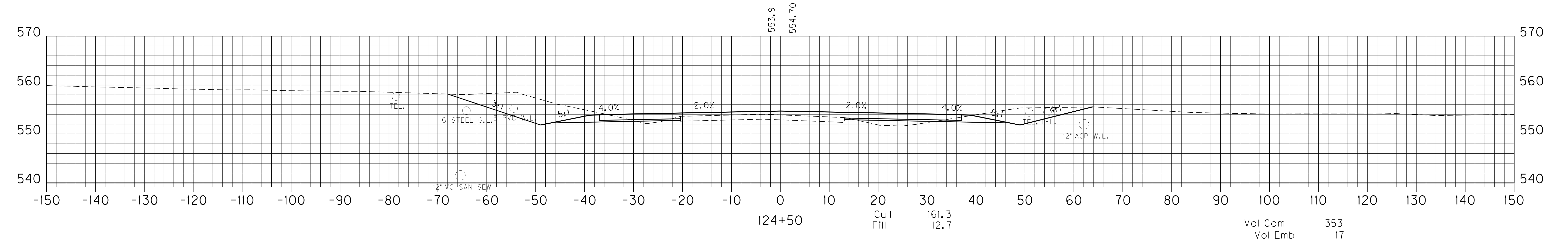
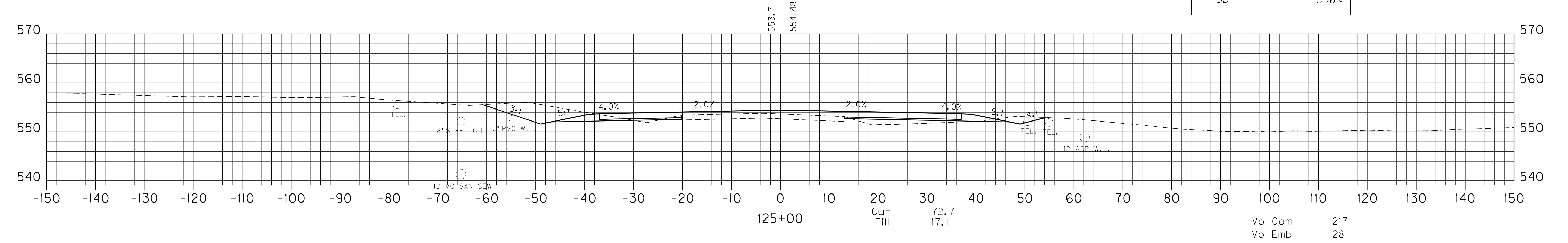
114+99	LT STA 114+99 CONST 46' ASPHALT COM ENT & (2) - 72'-24" EO ENT PIPE	Vol Ent Com	31
		Vol Ent Emb	14

SCALE: 1"= 10 HORIZ.  
 1"= 10 VERT.

MAINLINE  
 STA. 115+00 TO STA. 115+50

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

Earthwork Quantities Sta. 110+50 to 125+00	
Com	= 2727 ✓
Emb	= 12956 ✓
SD	= 396 ✓



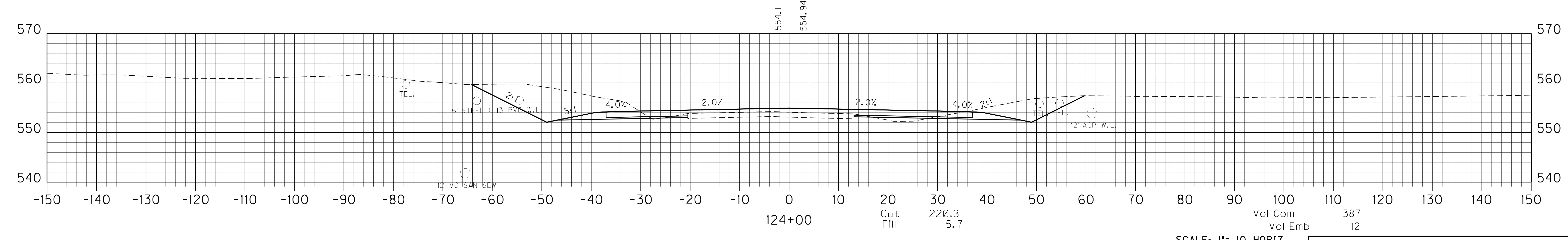
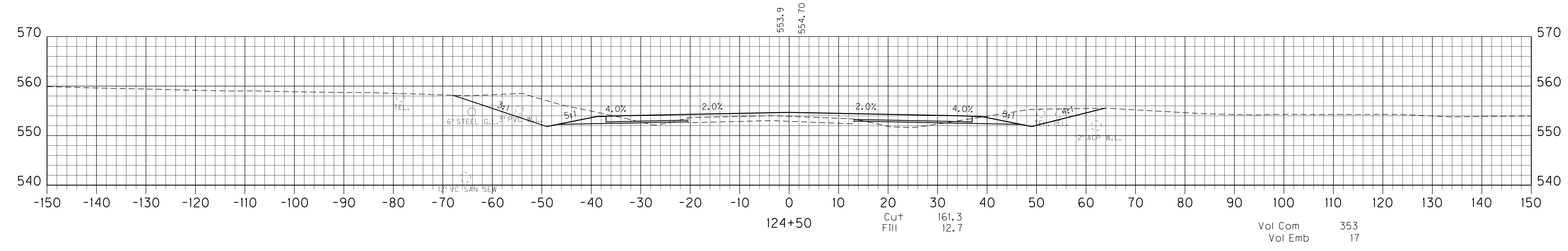
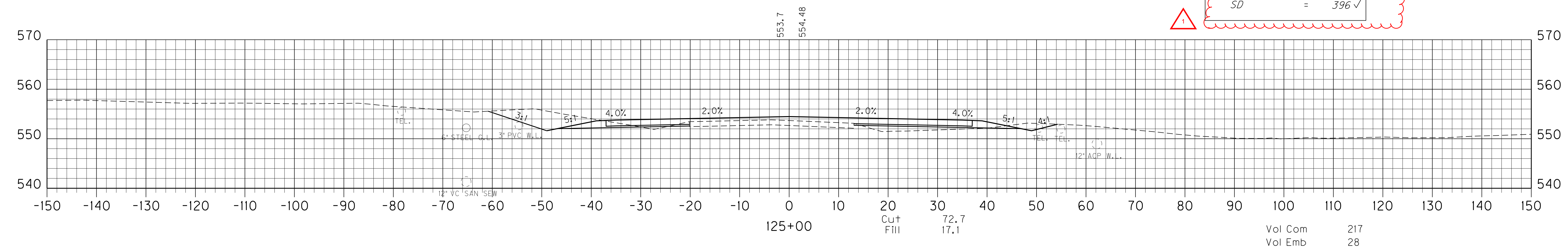
SCALE: 1"= 10 HORIZ.  
 1"=10 VERT.

MAINLINE  
 STA. 124+00 TO STA. 125+00

REVIS 10-17-2011

PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

Earthwork Quantities Sta. 110+50 to 125+00	
Com	= 2727 ✓
Emb	= 12956 ✓
SD	= 396 ✓



SCALE: 1"= 10 HORIZ.  
 1"=10 VERT.

MAINLINE  
 STA. 124+00 TO STA. 125+00

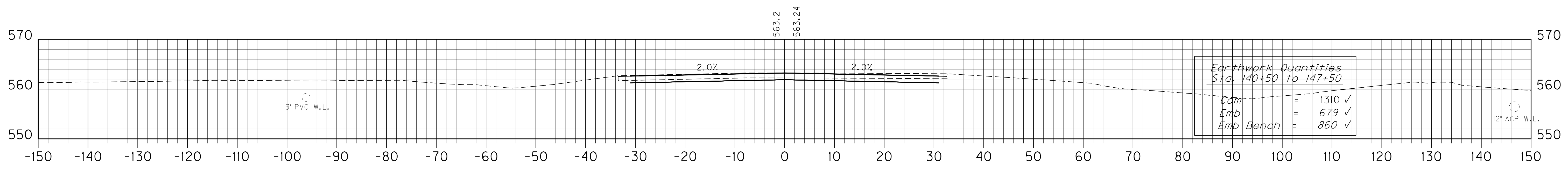
PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

MAINLINE TOTALS	
Com	= 48643
Emb	= 172979
SD	= 3395
Emb Bench	= 3151

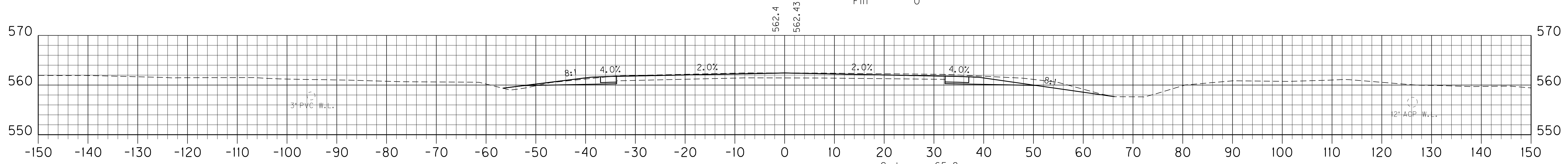
APPROACH TOTALS	
Com	= 1505
Emb	= 12531
SD	= 268
Emb Bench	= 1163

PROJECT TOTALS	
Com	= 50148
Emb	= 185510
SD	= 3744
Emb Bench	= 4314

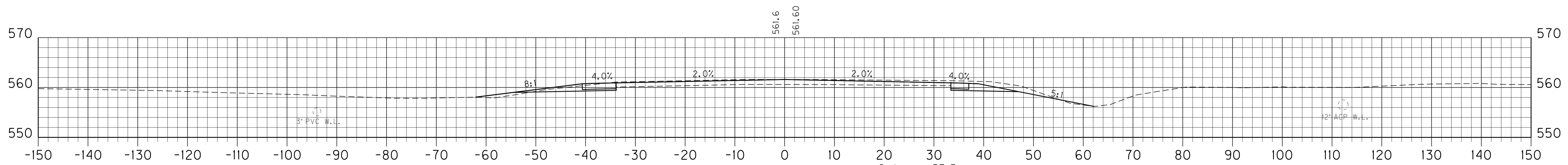
Earthwork Quantities Sta. 140+50 to 147+50	
Com	= 1310 ✓
Emb	= 679 ✓
Emb Bench	= 860 ✓



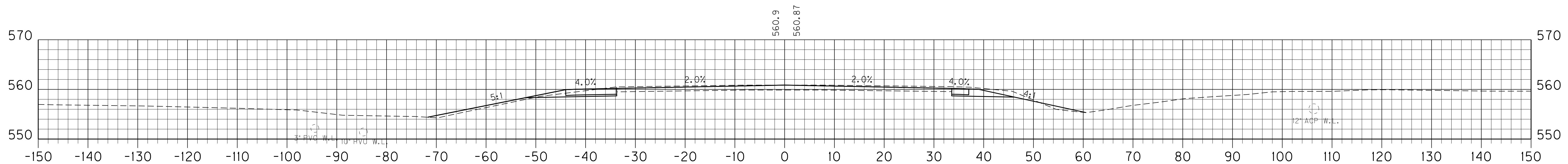
STA 147+50 END CONSTRUCTION  
 Cut 0  
 Fill 0  
 Vol Com 61  
 Vol Emb 3



STA 147+00  
 Cut 65.8  
 Fill 2.7  
 Vol Com 114  
 Vol Emb 7



STA 146+50  
 Cut 57.3  
 Fill 5.3  
 Vol Com 55  
 Vol Emb 15



STA 146+00  
 Cut 48.1  
 Fill 11.4  
 Vol Com 80  
 Vol Emb 32  
 Vol Emb Bench 23

SCALE: 1"= 10 HORIZ.  
 1"=10 VERT.

MAINLINE  
 STA. 146+00 TO STA. 147+50

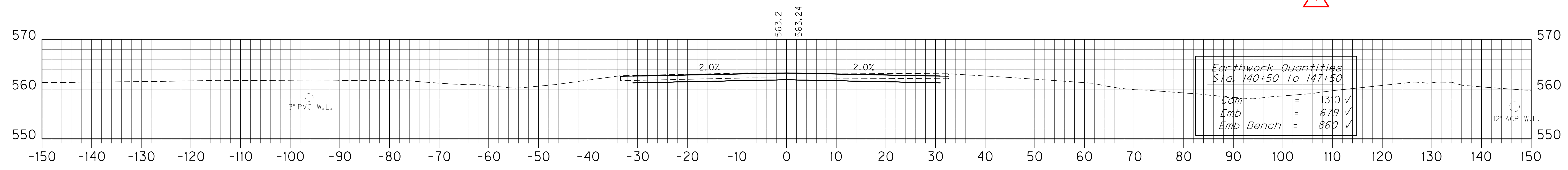
1 REVISED 10-17-2011

MAINLINE TOTALS	
Com	= 48643
Emb	= 172979
SD	= 3395
Emb Bench	= 3151

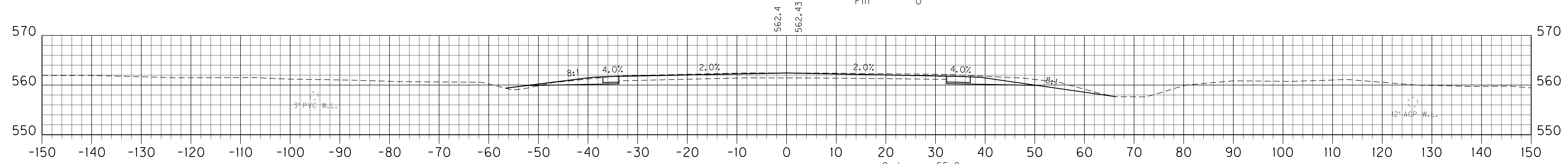
APPROACH TOTALS	
Com	= 1505
Emb	= 12531
SD	= 268
Emb Bench	= 1163

PROJECT TOTALS	
Com	= 50148
Emb	= 18510
SD	= 3744
Emb Bench	= 4314

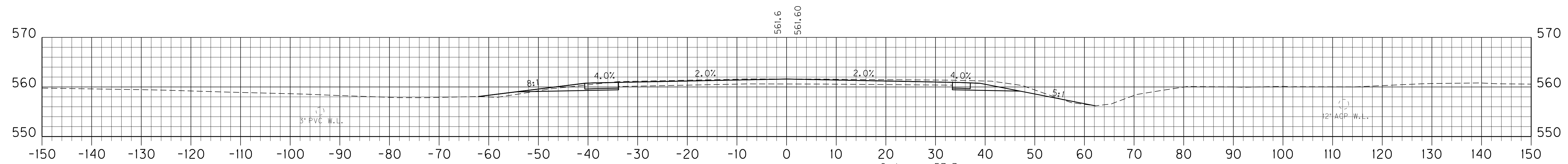
PREPARED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



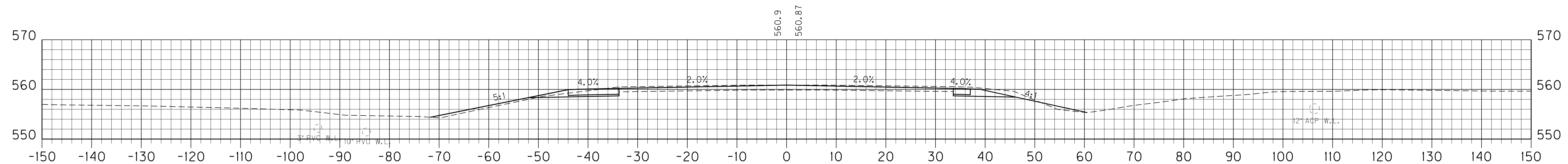
147+50 STA 147+50 END CONSTRUCTION  
 Cut 0  
 Fill 0  
 Vol Com 61  
 Vol Emb 3



147+00  
 Cut 65.8  
 Fill 2.7  
 Vol Com 114  
 Vol Emb 7



146+50  
 Cut 57.3  
 Fill 5.3  
 Vol Com 55  
 Vol Emb 15



146+00  
 Cut 48.1  
 Fill 11.4  
 Vol Com 80  
 Vol Emb 32  
 Vol Emb Bench 23

SCALE: 1"= 10 HORIZ.  
 1"=10 VERT.

MAINLINE  
 STA. 146+00 TO STA. 147+50

CONTRACT ID: 111046  
COUNTY: WARREN  
PROPOSAL: STP 7434(022)

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
SECTION 0001 ROADWAY						
0010	00003	CRUSHED STONE BASE	37,035.000	TON		
0020	00020	TRAFFIC BOUND BASE	1,252.000	TON		
0030	00078	CRUSHED AGGREGATE SIZE NO 2	75,552.000	TON		
0040	00100	ASPHALT SEAL AGGREGATE	228.000	TON		
0050	00190	LEVELING & WEDGING PG64-22	7,210.000	TON		
0060	00214	CL3 ASPH BASE 1.00D PG64-22	50,798.000	TON		
0070	00291	EMULSIFIED ASPHALT RS-2	27.500	TON		
0080	00324	CL3 ASPH SURF 0.50B PG64-22	10,179.000	TON		
0090	00440	ENTRANCE PIPE-15 IN	69.000	LF		
0100	00441	ENTRANCE PIPE-18 IN	71.000	LF		
0110	00443	ENTRANCE PIPE-24 IN	50.000	LF		
0120	00445	ENTRANCE PIPE-30 IN	125.000	LF		
0130	00450	ENTRANCE PIPE-15 IN EQUIV	116.000	LF		
0140	00451	ENTRANCE PIPE-18 IN EQUIV	77.000	LF		
0150	00452	ENTRANCE PIPE-24 IN EQUIV	474.000	LF		
0160	00454	ENTRANCE PIPE-30 IN EQUIV	132.000	LF		
0170	00462	CULVERT PIPE-18 IN	872.000	LF		
0180	00464	CULVERT PIPE-24 IN (REVISED: 10-18-11)	468.000	LF		
0190	00466	CULVERT PIPE-30 IN	122.000	LF		
0200	00469	CULVERT PIPE-42 IN	24.000	LF		



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0210	00491	CULVERT PIPE-18 IN EQUIV	107.500	LF		
0220	00494	CULVERT PIPE-30 IN EQUIV	81.000	LF		
0230	00521	STORM SEWER PIPE-15 IN	169.000	LF		
0240	01310	REMOVE PIPE	198.000	LF		
0241	01373	METAL END SECTION TY 1-24 IN (ADDED: 10-18-11)	1.000	EACH		
0250	01450	S & F BOX INLET-OUTLET-18 IN	13.000	EACH		
0260	01451	S & F BOX INLET-OUTLET-24 IN	7.000	EACH		
0270	01452	S & F BOX INLET-OUTLET-30 IN	2.000	EACH		
0280	01480	CURB BOX INLET TYPE B	2.000	EACH		
0281	01650	JUNCTION BOX (ADDED: 10-18-11)	1.000	EACH		
0290	01825	ISLAND CURB AND GUTTER	25.000	LF		
0300	01845	ISLAND INTEGRAL CURB	34.500	LF		
0310	01982	DELINEATOR FOR GUARDRAIL-WHITE	17.000	EACH		
0311	02014	BARRICADE-TYPE III (ADDED: 10-11-11)	2.000	EACH		
0320	02084	JPC PAVEMENT-8 IN	610.000	SQYD		
0330	02091	REMOVE PAVEMENT	2,116.000	SQYD		
0340	02223	GRANULAR EMBANKMENT	210.000	CUYD		
0350	02230	EMBANKMENT IN PLACE	173,561.000	CUYD		
0360	02242	WATER	100.000	MGAL		
0370	02262	FENCE-WOVEN WIRE TYPE 1	383.000	LF		
0380	02265	REMOVE FENCE	383.000	LF		

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0390	02351	GUARDRAIL-STEEL W BEAM-S FACE	2,625.000	LF		
0400	02360	GUARDRAIL TERMINAL SECTION NO 1	2.000	EACH		
0410	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.000	EACH		
0420	02371	GUARDRAIL END TREATMENT TYPE 7	1.000	EACH		
0430	02381	REMOVE GUARDRAIL	3,479.000	LF		
0440	02391	GUARDRAIL END TREATMENT TYPE 4A	5.000	EACH		
0450	02429	RIGHT-OF-WAY MONUMENT TYPE 1	78.000	EACH		
0460	02432	WITNESS POST	20.000	EACH		
0470	02469	CLEAN SINKHOLE	5.000	EACH		
0480	02483	CHANNEL LINING CLASS II	200.000	TON		
0490	02484	CHANNEL LINING CLASS III	260.000	TON		
0500	02545	CLEARING AND GRUBBING 53.3 ACRES	( 1.00)	LS		
0510	02555	CONCRETE-CLASS B	21.300	CUYD		
0520	02562	SIGNS	500.000	SQFT		
0530	02585	EDGE KEY	354.000	LF		
0540	02599	FABRIC-GEOTEXTILE TYPE IV	210,280.000	SQYD		
0550	02600	FABRIC GEOTEXTILE TY IV FOR PIPE (REVISED: 10-18-11)	6,075.000	SQYD	2.00	12,150.00
0560	02650	MAINTAIN & CONTROL TRAFFIC	( 1.00)	LS		
0570	02651	DIVERSIONS (BY-PASS DETOURS)	( 1.00)	LS		
0580	02690	SAFELOADING	34.250	CUYD		
0590	02726	STAKING	( 1.00)	LS		

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0600	02731	REMOVE STRUCTURE	( 1.00)	LS		
0610	05950	EROSION CONTROL BLANKET	8,183.000	SQYD		
0620	05966	TOPDRESSING FERTILIZER	5.170	TON		
0630	05985	SEEDING AND PROTECTION	100,000.000	SQYD		
0640	06406	SBM ALUM SHEET SIGNS .080 IN	350.000	SQFT		
0650	06407	SBM ALUM SHEET SIGNS .125 IN	310.000	SQFT		
0660	06410	STEEL POST TYPE 1	680.000	LF		
0670	06411	STEEL POST TYPE 2	1,260.000	LF		
0680	06510	PAVE STRIPING-TEMP PAINT-4 IN	20,113.000	LF		
0690	06514	PAVE STRIPING-PERM PAINT-4 IN	51,000.000	LF		
0700	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.000	LF		
0710	06568	PAVE MARKING-THERMO STOP BAR-24IN	400.000	LF		
0720	06574	PAVE MARKING-THERMO CURV ARROW	46.000	EACH		
0730	06582	PAVEMENT MARKER TYPE IV-BY	625.000	EACH		
0740	06589	PAVEMENT MARKER TYPE V-MW	625.000	EACH		
0750	06591	PAVEMENT MARKER TYPE V-BY	653.000	EACH		
0760	06600	REMOVE PAVEMENT MARKER TYPE V	325.000	EACH		
0770	08001	STRUCTURE EXCAVATION-COMMON	11.000	CUYD		
0780	08100	CONCRETE-CLASS A	14.380	CUYD		
0790	08150	STEEL REINFORCEMENT	384.000	LB		
0800	10020NS	FUEL ADJUSTMENT	155,864.000	DOLL	1.00	155,864.00

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0810	10030NS	ASPHALT ADJUSTMENT	164,272.000	DOLL	1.00	164,272.00
0820	20315ED	CLAY SOIL CAP	70.000	CUYD		
0830	21588NN	METAL END SECTION TY 3-30 IN (EQUIV)	2.000	EACH		
0840	21655EN	REMOVE ASBESTOS PIPE 12 IN	280.000	LF		
0850	23131ER701	PIPELINE VIDEO INSPECTION	908.000	LF		
0860	23143ED	KPDES PERMIT AND TEMP EROSION CONTROL	( 1.00)	LS		
0870	23274EN11F	TURF REINFORCEMENT MAT 1	3,939.000	SQYD		
SECTION 0002 BRIDGE-RETAINING WALL						
0880	02231	STRUCTURE GRANULAR BACKFILL	1,246.000	CUYD		
0890	02998	MASONRY COATING	126.000	SQYD		
0900	08001	STRUCTURE EXCAVATION-COMMON	228.000	CUYD		
0910	08002	STRUCTURE EXCAV-SOLID ROCK	281.000	CUYD		
0920	08100	CONCRETE-CLASS A	260.500	CUYD		
0930	08150	STEEL REINFORCEMENT	18,585.000	LB		
0940	08151	STEEL REINFORCEMENT-EPOXY COATED	313.000	LB		
SECTION 0003 BRIDGE-CONC ALT ALT GROUP AA1 25933						
0950	02231	STRUCTURE GRANULAR BACKFILL	502.000	CUYD		
0960	02998	MASONRY COATING	564.000	SQYD		
0970	03299	ARMORED EDGE FOR CONCRETE	238.700	LF		
0980	08001	STRUCTURE EXCAVATION-COMMON	645.000	CUYD		
0990	08002	STRUCTURE EXCAV-SOLID ROCK	175.000	CUYD		

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1000	08020	CRUSHED AGGREGATE SLOPE PROT	859.000	TON		
1010	08033	TEST PILES	72.000	LF		
1020	08046	PILES-STEEL HP12X53	1,250.000	LF		
1030	08094	PILE POINTS-12 IN	40.000	EACH		
1040	08100	CONCRETE-CLASS A	545.000	CUYD		
1050	08104	CONCRETE-CLASS AA	823.600	CUYD		
1060	08136	MECHANICAL REINF COUPLER #11	59.000	EACH		
1070	08150	STEEL REINFORCEMENT	84,748.000	LB		
1080	08151	STEEL REINFORCEMENT-EPOXY COATED	217,011.000	LB		
1090	08500	APPROACH SLAB	434.000	SQYD		
1100	08634	PRECAST PC I BEAM TYPE 4	2,154.000	LF		
1110	08711	BRIDGE CHAIN LINK FENCE-6 FT	203.000	LF		
1120	21532ED	RAIL SYSTEM TYPE III	489.200	LF		
SECTION 0004		BRIDGE-STEEL ALT				
ALT GROUP AA2		25933				
1130	02231	STRUCTURE GRANULAR BACKFILL	473.000	CUYD		
1140	02998	MASONRY COATING	562.000	SQYD		
1150	03299	ARMORED EDGE FOR CONCRETE	238.700	LF		
1160	08001	STRUCTURE EXCAVATION-COMMON	645.000	CUYD		
1170	08002	STRUCTURE EXCAV-SOLID ROCK	178.000	CUYD		
1180	08020	CRUSHED AGGREGATE SLOPE PROT	859.000	TON		
1190	08033	TEST PILES	74.000	LF		

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1200	08046	PILES-STEEL HP12X53	1,259.000	LF		
1210	08094	PILE POINTS-12 IN	40.000	EACH		
1220	08100	CONCRETE-CLASS A	494.400	CUYD		
1230	08104	CONCRETE-CLASS AA	698.100	CUYD		
1240	08136	MECHANICAL REINF COUPLER #11	51.000	EACH		
1250	08150	STEEL REINFORCEMENT	65,420.000	LB		
1260	08151	STEEL REINFORCEMENT-EPOXY COATED	214,091.000	LB		
1270	08160	STRUCTURAL STEEL 392,167 LB	( 1.00)	LS		
1280	08170	SHEAR CONNECTORS 8559 LB	( 1.00)	LS		
1290	08500	APPROACH SLAB	434.000	SQYD		
1300	08711	BRIDGE CHAIN LINK FENCE-6 FT	203.000	LF		
1310	21532ED	RAIL SYSTEM TYPE III	489.200	LF		
1320	21679EN	FIBERGLASS DRAIN PIPE	79.700	LF		
SECTION 0005 SIGNALIZATION						
1330	04793	CONDUIT-1 1/4 IN	1,247.000	LF		
1340	04795	CONDUIT-2 IN	1,943.000	LF		
1350	04811	JUNCTION BOX TYPE B	26.000	EACH		
1360	04820	TRENCHING AND BACKFILLING	2,980.000	LF		
1370	04830	LOOP WIRE	7,284.000	LF		
1380	04844	CABLE-NO. 14/5C	2,465.000	LF		
1390	04845	CABLE-NO. 14/7C	293.000	LF		

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1400	04850	CABLE-NO. 14/1 PAIR	15,743.000	LF		
1410	04885	MESSENGER-10800 LB	1,462.000	LF		
1420	04895	LOOP SAW SLOT AND FILL	2,602.000	LF		
1430	04931	INSTALL CONTROLLER TYPE 170	3.000	EACH		
1440	04932	INSTALL STEEL STRAIN POLE	12.000	EACH		
1450	04950	REMOVE SIGNAL EQUIPMENT	3.000	EACH		
1460	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	24.000	EACH		
1470	20188NS835	INSTALL LED SIGNAL-3 SECTION	18.000	EACH		
1480	20189NS835	INSTALL LED SIGNAL-5 SECTION	2.000	EACH		
1490	21543EN	BORE AND JACK CONDUIT	90.000	LF		
1500	23157EN	TRAFFIC SIGNAL POLE BASE	58.000	CUYD		
1510	23982EC	INSTALL ANTENNA	3.000	EACH		
SECTION 0006 LIGHTING						
1520	04701	POLE 40 FT MTG HT	5.000	EACH		
1530	04723	BRACKET 10 FT	5.000	EACH		
1540	04740	POLE BASE	5.000	EACH		
1550	04750	TRANSFORMER BASE	5.000	EACH		
1560	04760	POLE W/SECONDARY CONTROL EQUIP	1.000	EACH		
1570	04770	HPS LUMINAIRE	5.000	EACH		
1580	04780	FUSED CONNECTOR KIT	14.000	EACH		
1590	04793	CONDUIT-1 1/4 IN	1,285.000	LF		

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1600	04795	CONDUIT-2 IN	190.000	LF		
1610	04820	TRENCHING AND BACKFILLING	1,285.000	LF		
1620	04832	WIRE-NO. 12	825.000	LF		
1630	04834	WIRE-NO. 6	2,200.000	LF		
1640	04835	WIRE-NO. 4	2,100.000	LF		
1650	04940	REMOVE LIGHTING	( 1.00)	LS		
1660	20391NS835	JUNCTION BOX TYPE A	5.000	EACH		
1670	21543EN	BORE AND JACK CONDUIT	190.000	LF		
SECTION 0007 IITS						
1680	03381	PVC PIPE-2 IN CONDUIT	880.000	LF		
1690	04795	CONDUIT-2 IN	20.000	LF		
1700	04820	TRENCHING AND BACKFILLING	440.000	LF		
1710	04835	WIRE-NO. 4	1,410.000	LF		
1720	04836	WIRE-NO. 2	1,200.000	LF		
1730	06400	GMSS GALV STEEL TYPE A	1,612.000	LB		
1740	06490	CLASS A CONCRETE FOR SIGNS	4.180	CUYD		
1750	20392NS835	JUNCTION BOX TYPE C	1.000	EACH		
1760	20419ND	ROADWAY CROSS SECTION	1.000	EACH		
1770	21071ND	DATA SURGE DEVICE	3.000	EACH		
1780	21076ND	FIBER TERMINATION RACK	2.000	EACH		
1790	21077ED	FIBER OPTIC CABLE	400.000	LF		



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1800	21458ND	FIBER TRANSCEIVER SIGN	2.000	EACH		
1810	21489ND	RACK MOUNTED UPS	1.000	EACH		
1820	23150NN	COMMUNICATION CABLE	50.000	LF		
1830	23944EC	ADVANCED GROUNDING SYSTEM	1.000	EACH		
1840	24387NC	REM & REPL VAR MESS SIGN-DYNAMIC SIDE MT	1.000	EACH		
SECTION 0008 TRAINEES						
1850	02742	TRAINEE PAYMENT REIMBURSEMENT 1 IRON WORKER	1,400.000	HOUR		
SECTION 0009 MOB AND DEMOB						
1860	02568	MOBILIZATION (NO MORE THAN 5%)		LUMP		
1870	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				