



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

November 5, 2012

CALL NO. 312
CONTRACT ID NO. 121058
ADDENDUM # 1

Subject: Larue County, FD04 SPP 062 0031 010-021
Letting November 16, 2012

- (1) Revised - Plan Sheets - R2B, R2C, R2D, R12, R23, X19, X30, X33, X34, X35, X36, X38, X39, X40, X41, X43, X44, X45, X46, X47, And X54
- (2) Revised - Table of Contents - Page 2 of 77
- (3) Added - Right-of-Way Certification Form - Pages 9(a)-9(c) of 77
- (4) Revised - Bid Items - Pages 76-77 of 77

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

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

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	04-8504	R2B

PAVING AREAS

ITEM	DEVER	BOYHOOD	ENLOW	CURVE 4	OVERLAY	TOTAL PROJECT
	(A)	(B)	(C)	(D)	(E)	
	S Q U A R E Y A R D S					
CL2 ASPH SURF 0.38D PG64-22 ⑩	4327	2368	8102	2248	16785	33830
CL2 ASPH BASE 0.75D PG64-22 ⑩	6061		8909			15418
DENSE GRADE AGGREGATE ⑩	4600		6574			17252
LEVEL & WEDGING PG64-22	2873	1200	3255	879		8206
ASPHALT SEAL AGGREGATE	604	606	1154	1100		3464
ASPHALT SEAL COAT	604	606	1154	1100		3464

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	DEVER (A)	BOYHOOD (B)	ENLOW (C)	CURVE 4 (D)	OVERLAY (E)	TOTAL PROJECT
00301	CL2 ASPH SURF 0.38D PG64-22 ⑩⑪	TON	311	163	557	155	1164	2383
00221	CL2 ASPH BASE 0.75D PG64-22 ⑩⑪	TON	1156		1480		37	2710
00001	DENSE GRADE AGGREGATE ⑩⑫⑬	TON	1130		1457		134	3027
00190	LEVEL & WEDGING PG64-22 ⑪	TON	474	208	537	152		1371
00100	ASPHALT SEAL AGGREGATE	TON	6	3	12	6		27
00103	ASPHALT SEAL COAT	TON	0.73	0.33	1.39	.59		3.04

NOTES

- ① INCLUDES THE FOLLOWING QUANTITIES (CUYD)
 BENCHING COM
 DEVER 1355 631
 BOYHOOD 81 0
 ENLOW 1186 1556
 CURVE 4 387 5
 OTHER 0 0
- ② CONTRARY TO STANDARD SPECIFICATIONS, ALL HEADWALL REMOVAL SHALL BE INCIDENTAL TO EMBANKMENT IN PLACE.
- ③ FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY.
- ④ CONTRARY TO STANDARD DRAWINGS AND STANDARD SPECIFICATIONS, 9' POSTS SHALL BE REQUIRED FOR ALL GUARDRAIL AND INCIDENTAL TO THE W BEAM G/R BID ITEM.
- ⑤ ALL GUARDRAIL, END TREATMENTS, AND ASSOCIATED HARDWARE FROM STA 67+29 TO STA 73+35 SHALL BE CORTEN STEEL. THE CONTRACTOR SHALL PAINT THE TERMINAL SECTION NO. 1 AND THE END TREATMENT TYPE 1 TO MATCH THE CORTEN COLOR TO THE SATISFACTION OF THE ENGINEER. ALL PAINTING SHALL BE INCIDENTAL TO INSTALLATION. THE CONTRACTOR SHALL USE AN APPROVED GUARDRAIL PAINT OR BRIDGE PAINT THAT IS READILY AVAILABLE. THE PAINT SHALL BE A MOISTURE CURE URETHANE COATING SYSTEM WITH MICACEOUS IRON OXIDE PIGMENTATION. GUARDRAIL POSTS SHALL BE SQUARE TIMBER POSTS IN ACCORDANCE WITH SECTION 814.04.
- ⑥ DISMANTLE, SALVAGE, AND STOCKPILE ON THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER. SALVAGED ITEMS SHALL BECOME THE PROPERTY OF THE DEPARTMENT OF HIGHWAYS.
- ⑦ INCLUDES THE FOLLOWING AREAS:
 DEVER 1.72AC
 BOYHOOD 0.51AC
 ENLOW 2.20AC TOTAL 5.33 AC
 CURVE 4 0.41AC
 OTHER 0.49AC
- ⑧ 42' 4'X8' CULVERT AT STA 110+78
- ⑨ SHALL BE A LOCKING BLOCK RETAINING WALL SUITED FOR STREAM USE. INCLUDES FOUNDATION PREPARATION. SEE DETAIL SHEETS.
- ⑩ INCLUDES THE FOLLOWING QUANTITIES FOR ENTRANCES:
 46 TONS OF SURFACE
 74 TONS OF BASE
 206 TONS OF DGA
- ⑪ ALL ASHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.
- ⑫ ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ⑬ INCLUDES 200 TONS FOR MAINTENANCE OF TRAFFIC.
- ⑭ INCLUDES GEOTEXTILE FABRIC TYPE I AS REQUIRED BY SUPPLIER. SEE DETAIL SHEETS.

GENERAL & PAVING SUMMARY SHEET

ITEM	DESCRIPTION	UNIT	DEVER (A)	BOYHOOD (B)	ENLOW (C)	CURVE 4 (D)	OTHER (F)	TOTAL PROJECT
00440	ENTRANCE PIPE-15IN	L.F.	50	-----	51	-----	-----	101
01987	DELINEATOR FOR G-RAIL - BI DIRECTIONAL WHITE	EACH	-----	10	-----	-----	15	25
08001	STRUCTURE EXCAVATION - COMMON	CUYD	1756	2079	190	-----	-----	4025
02230	EMBANKMENT IN PLACE ①②	CUYD	6380	435	6263	496	-----	13574
08002	STRUCTURE EXCAVATION - ROCK	CUYD	46	39	-----	-----	-----	85
02231	STRUCTURE GRANULAR BACKFILL ⑭	CUYD	667	884	-----	-----	-----	1551
20060ES719	GUARDRAIL STEEL W BEAM-S FACE CR④⑤	L.F.	-----	550	-----	-----	-----	550
08018	RETAINING WALL ⑨	SOFT	3218	3427	-----	-----	-----	6645
02237	DITCHING	L.F.	-----	-----	-----	70	238	308
02242	WATER ③	MGAL	-----	-----	-----	-----	-----	59
02351	GUARDRAIL STEEL W BEAM-S FACE ④	L.F.	-----	-----	-----	-----	1525	1525
02360	GUARDRAIL TERMINAL SECTION NO 1 ⑤	EACH	-----	1	-----	-----	-----	1
02367	GUARDRAIL END TREATMENT TYPE 1 ⑤	EACH	-----	1	-----	-----	6	7
02381	REMOVE GUARDRAIL ⑥	L.F.	-----	-----	375	-----	-----	375
02429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	13	-----	30	-----	30	73
02432	WITNESS POST	EACH	6	-----	6	-----	-----	12
02483	CHANNEL LINING CL II	TON	21	8	20	-----	59	108
02484	CHANNEL LINING CL III	TON	-----	-----	-----	-----	414	414
02545	CLEARING AND GRUBBING ⑦	LS	-----	-----	-----	-----	-----	1
02569	DEMobilIZATION	LS	-----	-----	-----	-----	-----	1
02600	FABRIC GEOTEXTILE TYPE IV FOR PIPE	SQYD	340	62	786	89	609	1886
02650	MAINTAIN & CONTROL TRAFFIC	LS	-----	-----	-----	-----	-----	1
02676	MOBILIZATION FOR MILLING AND TEXTURING	LS	-----	-----	-----	-----	-----	1
02677	ASPHALT PAVE MILLING AND TEXTURING	TON	56	24	151	40	-----	271
02690	SAFeloading	CUYD	-----	-----	14	3.5	-----	17.5
02726	STAKING	LS	-----	-----	-----	-----	-----	1
05950	EROSION CONTROL BLANKET	SQYD	-----	-----	-----	-----	-----	7295
05966	TOPDRESSING FERTILIZER	TON	0.05	0.01	0.06	0.01	0.01	0.14
05985	SEEDING AND PROTECTION	SQYD	8435	2007	11003	1277	3566	26288
06510	PAVE STRIPING-TEMPORARY PAINT-4 IN	L.F.	4318	1894	5990	1798	-----	14000
06514	PAVE STRIPING-PERMANENT PAINT-4 IN	L.F.	8636	3788	11980	3596	26856	54856
06600	REMOVE PAVEMENT MARKER TYPE V	EACH	54	24	75	23	168	344
04933	TEMP SIGNAL TWO PHASE	EACH	-----	-----	-----	-----	-----	2
23131ER701	PIPELINE VIDEO INSPECTION	L.F.	131	28	310	40	244	753
02731	REMOVE STRUCTURE ⑧	LS	-----	-----	-----	-----	-----	1
23143ED	KPDES PERMIT & TEMP. EROSION CONTROL	LS	-----	-----	-----	-----	-----	1
10020NS	FUEL ADJUSTMENT	DOLL	-----	-----	-----	-----	-----	10,437
10030NS	ASPHALT ADJUSTMENT	DOLL	-----	-----	-----	-----	-----	15,500
02373	GUARDRAIL END TREATMENT TYPE 3	EACH	-----	-----	-----	-----	2	2
02355	GUARDRAIL-STEEL W BEAM-S FACE A	L.F.	-----	-----	-----	-----	100	100
08801	GUARDRAIL-STEEL W BEAM-S FACE BR	L.F.	-----	-----	-----	-----	38	38
06568	PAVEMENT MARKING THERMO STOP BAR-24"	L.F.	-----	-----	-----	-----	-----	66
02562	SIGNS	SQFT	-----	-----	-----	-----	-----	100
02653	LANE CLOSURE	EA	-----	-----	-----	-----	-----	3
02403	REMOVE CONCRETE MASONRY	CUYD	2.00	-----	-----	-----	2.37	-----
08103	LANE CLOSURE	EA	2.00	-----	-----	-----	2.37	-----

① STA. 35+30 - 56+81 ② STA. 65+80 - 75+27 ③ STA. 20+00 - 35+30, 56+89 - 65+80, ④ STA. 161+78 - 167+30
 ⑤ STA. 89+60 - 119+55 ⑥ STA. 148+15 - 157+14 ⑦ STA. 75+27 - 89+60, 119+55 - 148+15

FILE NAME: G:\PWORK\BEN_HORNBACK\00163649\RO020BSU.DGN
 USER: ben.hornback
 DATE PLOTTED: November 2, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.443

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	DEVER (A)	BOYHOOD (B)	ENLOW (C)	CURVE 4 (D)	OTHER (F)	TOTAL PROJECT
00440	ENTRANCE PIPE-15IN	L.F.	50	-----	51	-----	-----	101
01987	DELINEATOR FOR G-RAIL - BI DIRECTIONAL WHITE	EACH	-----	10	-----	-----	15	25
08001	STRUCTURE EXCAVATION - COMMON	CUYD	1756	2079	190	-----	-----	4025
02230	EMBANKMENT IN PLACE (1)(2)	CUYD	6380	435	6263	496	-----	13574
08002	STRUCTURE EXCAVATION - ROCK	CUYD	46	39	-----	-----	-----	85
02231	STRUCTURE GRANULAR BACKFILL (4)	CUYD	667	884	-----	-----	-----	1551
20060ES719	GUARDRAIL STEEL W BEAM-S FACE CR(4)(5)	L.F.	-----	550	-----	-----	-----	550
08018	RETAINING WALL (9)	SQFT	3218	3427	-----	-----	-----	6645
02237	DITCHING	L.F.	-----	-----	-----	70	238	308
02242	WATER (3)	MGAL	-----	-----	-----	-----	-----	59
02351	GUARDRAIL STEEL W BEAM-S FACE (4)	L.F.	-----	-----	-----	-----	1525	1525
02360	GUARDRAIL TERMINAL SECTION NO 1 (5)	EACH	-----	-----	-----	-----	-----	1
02367	GUARDRAIL END TREATMENT TYPE 1 (5)	EACH	-----	1	-----	-----	6	7
02381	REMOVE GUARDRAIL (6)	L.F.	-----	-----	375	-----	-----	375
02429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	13	-----	30	-----	30	73
02432	WITNESS POST	EACH	6	-----	6	-----	-----	12
02483	CHANNEL LINING CL II	TON	21	8	20	-----	59	108
02484	CHANNEL LINING CL III	TON	-----	-----	-----	-----	414	414
02545	CLEARING AND GRUBBING (7)	LS	-----	-----	-----	-----	-----	1
02569	DEMobilIZATION	LS	-----	-----	-----	-----	-----	1
02600	FABRIC GEOTEXTILE TYPE IV FOR PIPE	SQYD	340	62	786	89	609	1886
02650	MAINTAIN & CONTROL TRAFFIC	LS	-----	-----	-----	-----	-----	1
02676	MOBILIZATION FOR MILLING AND TEXTURING	LS	-----	-----	-----	-----	-----	1
02677	ASPHALT PAVE MILLING AND TEXTURING	TON	56	24	151	40	-----	271
02690	SAFeloading	CUYD	-----	-----	14	3.5	-----	17.5
02726	STAKING	LS	-----	-----	-----	-----	-----	1
05950	EROSION CONTROL BLANKET	SQYD	-----	-----	-----	-----	-----	7295
05966	TOPDRESSING FERTILIZER	TON	0.05	0.01	0.06	0.01	0.01	0.14
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23131ER701	PIPELINE VIDEO INSPECTION	L.F.	131	28	310	40	244	753
02731	REMOVE STRUCTURE (8)	LS	-----	-----	-----	-----	-----	1
23143ED	KPDES PERMIT & TEMP. EROSION CONTROL	LS	-----	-----	-----	-----	-----	1
10020NS	FUEL ADJUSTMENT	DOLL	-----	-----	-----	-----	-----	10,437
10030NS	ASPHALT ADJUSTMENT	DOLL	-----	-----	-----	-----	-----	15,500
02373	GUARDRAIL END TREATMENT TYPE 3	EACH	-----	-----	-----	-----	2	2
02355	GUARDRAIL-STEEL W BEAM-S FACE A	L.F.	-----	-----	-----	-----	100	100
08801	GUARDRAIL-STEEL W BEAM-S FACE BR	L.F.	-----	-----	-----	-----	38	38
06568	PAVEMENT MARKING THERMO STOP BAR-24"	L.F.	-----	-----	-----	-----	-----	66
02562	SIGNS	SQFT	-----	-----	-----	-----	-----	100
02653	LANE CLOSURE	EA	-----	-----	-----	-----	-----	3
02403	REMOVE CONCRETE MASONRY	CUYD	2.00	-----	-----	-----	2.37	-----
08103	LANE CLOSURE	EA	2.00	-----	-----	-----	2.37	-----

PAVING AREAS

REVISED 11-01-2012

ITEM	DEVER (A)	BOYHOOD (B)	ENLOW (C)	CURVE 4 (D)	OVERLAY (E)	TOTAL PROJECT
CL2 ASPH SURF 0.38D PG64-22 (10)	4327	2368	8102	2248	16785	33830
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DENSE GRADE AGGREGATE (10)	4600		6574			17252
LEVEL & WEDGING PG64-22	2873	1200	3255	879		8206
ASPHALT SEAL AGGREGATE	604	606	1154	1100		3464
ASPHALT SEAL COAT	604	606	1154	1100		3464

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	DEVER (A)	BOYHOOD (B)	ENLOW (C)	CURVE 4 (D)	OVERLAY (E)	TOTAL PROJECT
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00001	DENSE GRADE AGGREGATE (10)(12)(13)	TON	1130		1457		134	3027
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NOTES

- (1) INCLUDES THE FOLLOWING QUANTITIES (CUYD)
 BENCHING COM
 DEVER 1355 631
 BOYHOOD 81 0
 ENLOW 1186 1556
 CURVE 4 387 5
 OTHER 0 0
- (2) CONTRARY TO STANDARD SPECIFICATIONS, ALL HEADWALL REMOVAL SHALL BE INCIDENTAL TO EMBANKMENT IN PLACE.
- (3) FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY.
- (4) CONTRARY TO STANDARD DRAWINGS AND STANDARD SPECIFICATIONS, 9' POSTS SHALL BE REQUIRED FOR ALL GUARDRAIL AND INCIDENTAL TO THE W BEAM G/R BID ITEM.
- (5) ALL GUARDRAIL, END TREATMENTS, AND ASSOCIATED HARDWARE FROM STA 67+29 TO STA 73+35 SHALL BE CORTEN STEEL. THE CONTRACTOR SHALL PAINT THE TERMINAL SECTION NO. 1 AND THE END TREATMENT TYPE 1 TO MATCH THE CORTEN COLOR TO THE SATISFACTION OF THE ENGINEER. ALL PAINTING SHALL BE INCIDENTAL TO INSTALLATION. THE CONTRACTOR SHALL USE AN APPROVED GUARDRAIL PAINT OR BRIDGE PAINT THAT IS READILY AVAILABLE. THE PAINT SHALL BE A MOISTURE CURE URETHANE COATING SYSTEM WITH MICACEOUS IRON OXIDE PIGMENTATION. GUARDRAIL POSTS SHALL BE SQUARE TIMBER POSTS IN ACCORDANCE WITH SECTION 814.04.
- (6) DISMANTLE, SALVAGE, AND STOCKPILE ON THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER. SALVAGED ITEMS SHALL BECOME THE PROPERTY OF THE DEPARTMENT OF HIGHWAYS.
- (7) INCLUDES THE FOLLOWING AREAS:
 DEVER 1.72AC
 BOYHOOD 0.51AC
 ENLOW 2.20AC TOTAL 5.33 AC
 CURVE 4 0.41AC
 OTHER 0.49AC
- (8) 42' 4'X8' CULVERT AT STA 110+78
- (9) SHALL BE A LOCKING BLOCK RETAINING WALL SUITED FOR STREAM USE. INCLUDES FOUNDATION PREPARATION. SEE DETAIL SHEETS.
- (10) INCLUDES THE FOLLOWING QUANTITIES FOR ENTRANCES:
 46 TONS OF SURFACE
 74 TONS OF BASE
 206 TONS OF DGA
- (11) ALL ASHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.
- (12) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- (13) INCLUDES 200 TONS FOR MAINTENANCE OF TRAFFIC.
- (14) INCLUDES GEOTEXTILE FABRIC TYPE I AS REQUIRED BY SUPPLIER. SEE DETAIL SHEETS.

FILE NAME: G:\PWORK\BEN_HORNBACK\00163649\RO02085U.DGN
 USER: ben.hornback
 DATE PLOTTED: November 2, 2012
 E-SHEET NAME:
 8-11-7.443
 MicroStation

(A) STA. 35+30 - 56+01 (B) STA. 65+80 - 75+27 (C) STA. 20+00 - 35+30, 56+89 - 65+80, (E) STA. 161+78 - 167+30
 (D) STA. 89+60 - 119+55 (F) STA. 148+15 - 157+14 75+27 - 89+60, 119+55 - 148+15

MicroStation v8.11.7.443	E-SHEET NAME:	USER: ben.hornback DATE PLOTTED: November 1, 2012	FILE NAME: C:\PWORK\BEN_HORNBACK\00163649\R0020CSU.DGN	COUNTY OF	ITEM NO.	SHEET NO.									
SHEET NO.	STATION	PIPE SKEW	FILL HEIGHT	CULVERT PIPE 24 - INCH	CULVERT PIPE 36-IN EQUIV	CONCRETE - CLASS A	STEEL REINFORCEMENT	24" S&F INLET-OUTLET	24 IN SLOPED BOX OULET TYPE 1	SAFETY BOX INLET -24"	SAFETY BOX INLET- 24" DBL	DROP BOX INLET TYPE 5E	PRECAST CONCRETE BOX CULVERT	CULVERT PIPE- 18IN EQUIV	REMARKS
ITEM CODE	UNIT TO BID	L.F.	L.F.	L.F.	L.F.	CUYD	LBS	EA	EA	EA	EA	EA	L.F.	L.F.	L.F.
	R3 21+94		0.7	41					1	1					
	R3 24+33		0.4	36					1	1					
	R3 27+94		0.4	34					1	1					
	R3 30+44		1.0	37					1	1	1		20		TWO 10' 10'X4' EXTENSIONS
	R3 31+91		--												
	R4 36+96		1.2	40						1					
	R4 38+27	3° RT	0.7	38						1					
	R4 41+94		0.9	38					1	1					
	R4 44+70	6° LT	1.0	43					2						
	R4 47+96	3° RT	2.3	67					2						
	R4 50+71		--										20		TWO 10' 8'X4' EXTENSIONS
	R5 56+85		0.9	35					1	1					
	R5 58+99		1.2	34					1	1					
	R6 64+99		0.5	33					1	1					
	R6 67+49		--	10											
	R6 70+08		1.2	46					1						
	R7 81+75		0.4	34					1		1				
	R7 86+82		1.0		46	3.94	314			1					
	R7 91+00		1.1	41											
	R7 91+83	15° RT	0.9		46	5.22	463								
	R8 93+60		1.8	44											
	R8 97+16	45° LT	1.1		68	9.81	861	2							
	R8 99+59		0.5	37					1	1					
	R8 102+94		0.8	44					1	1	1				
	R8 104+44		0.3	47					1	1					
	R9 107+12	3° RT	0.7	57						1					
	R9 109+18	9° RT	2.1	68				2							
	R9 110+78	13° RT	2.0												
	R9 114+13	8° RT	0.0					1	1					47	70' 4'X8' BOX CULVERT SHALL BE RCHEP PIPE
	R9 116+64		0.8	42					1	1					
	R9 118+64		0.7	33					1	1					
	R9 120+14		0.3	30					1	1					
	R11 141+09	45° LT	1.0	60		3.43									
	R11 141+64	46° RT	0.7	64						1					DOUBLE HEADWALL WITH 141+64, 0° SKEW
	R11 143+82		1.8	44							1				
	R11 145+95		1.0	41							1				
	R11 150+63		0.3	38							1				
	R12 154+63		2.0	42								1			
TOTAL PROJECT				1297	160	22.40	1638	10	21	16	9	1	40	47	

SOIL PH: MEDIUM

NOTES
 ① Flowable fill shall be incidental to pipe bid item.

MicroStation v8.11.7.443

E-SHEET NAME:

USER: ben.hornback
DATE PLOTTED: November 1, 2012

FILE NAME: C:\PWORK\BEN_HORNBACK\10163649\R0020CSU.DGN

CULVERT SUMMARY

SHEET NO.	STATION	PIPE SKEW	FILL HEIGHT	CULVERT PIPE 24 - INCH	CULVERT PIPE 36-IN EQUIV	CONCRETE - CLASS A	STEEL REINFORCEMENT	24" S&F INLET-OUTLET	24 IN SLOPED BOX OULET TYPE 1	SAFETY BOX INLET -24"	SAFETY BOX INLET- 24" DBL	DROP BOX INLET TYPE 5E	PRECAST CONCRETE BOX CULVERT	CULVERT PIPE- 18IN EQUIV	REMARKS
	ITEM CODE		L.F.	L.F.	L.F.	CUYD	LBS	EA	EA	EA	EA	EA	L.F.	L.F.	
UNIT TO BID															
R3	21+94		0.7	41					1	1					
R3	24+33		0.4	36					1	1					
R3	27+94		0.4	34					1	1					
R3	30+44		1.0	37					1	1	1		20		TWO 10' 10"x4' EXTENSIONS
R3	31+91		--												
R4	36+96		1.2	40						1					
R4	38+27	3° RT	0.7	38						1					
R4	41+94		0.9	38					1	1					
R4	44+70	6° LT	1.0	43					2						
R4	47+96	3° RT	2.3	67					2				20		TWO 10' 8"x4' EXTENSIONS
R4	50+71		--												
R5	56+85		0.9	35					1	1					
R5	58+99		1.2	34					1	1					
R6	64+99		0.5	33					1	1					
R6	67+49		--	10											PIPE EXTENSION
R6	70+08		1.2	46					1						
R7	81+75		0.4	34					1		1				
R7	86+82		1.0		46	3.94	314			1					0° SKEW HEADWALL
R7	91+00		1.1	41											
R7	91+83	15° RT	0.9		46	5.22	463								15° SKEW HEADWALL
R8	93+60		1.8	44						1					45° SKEW HEADWALL
R8	97+16	45° LT	1.1		68	9.81	861			2					
R8	99+59		0.5	37					1	1					
R8	102+94		0.8	44					1	1					
R8	104+44		0.3	47					1	1					
R9	107+12	3° RT	0.7	57							1				
R9	109+18	9° RT	2.1	68					2						
R9	110+78	13° RT	2.0												
R9	114+13	8° RT	0.0						1					47	70' 4'x8' BOX CULVERT SHALL BE RCHEP PIPE
R9	116+64		0.8	42					1	1					
R9	118+64		0.7	33					1	1					
R9	120+14		0.3	30					1	1					
R11	141+09	45° LT	1.0	60					1	1					
R11	141+64	46° RT	0.7	64		3.43				1					DOUBLE HEADWALL WITH 141+64, 0° SKEW
R11	143+82		1.8	44							1				
R11	145+95		1.0	41							1				
R11	150+63		0.3	38					1	1					
R12	154+63		2.0	42					1	1					
TOTAL PROJECT				1297	160	22.40	1638	10	21	16	9	1	40	47	

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	R2C

REVISI REVISI REVISI
11-01-2012

SOIL PH: MEDIUM

NOTES
① Flowable fill shall be incidental to pipe bid item.

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	04-8504	R2D

GENERAL NOTES

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.

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER, REGULATES THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREA(S) UNTIL OBTAINING THE APPROPRIATE APPROVAL(S). REFER TO NOTICE(S) CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREA(S) WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

ROADBED NOTE, EMBANKMENT-IN-PLACE

USE EMBANKMENT-IN-PLACE WITH A MINIMUM C.B.R. VALUE OF **2** OR GREATER IN THE TOP 12 INCHES (300 MM) OF ROADBED IN CUT AND FILL SECTIONS.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY B SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH (25 MM) OR GREATER ON THIS PROJECT BY OPTION **B** ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY. AT (502) 564-3670

SPECIAL NOTE

TREE CLEARING RESTRICTIONS

THE US DEPARTMENT OF FISH AND WILDLIFE HAS IMPOSED TREE CUTTING RESTRICTIONS ON THIS PROJECT. TREES MAY BE CLEARED ONLY BETWEEN THE DATES OF OCTOBER 15th AND MARCH 31st.

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	04-8504	R2D

 REVISED 11-01-2012

GENERAL NOTES

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.

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COMPACTION OF ASPHALT MIXTURES

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CONSTRUCTION ITEMS			
ITEM	STATION	UNIT	QUANTITY
DITCHING	154+63 RT	L.F.	50
SEEDING AND PROTECTION	148+00 LT - 157+15 LT	SOYD	410
SEEDING AND PROTECTION	148+00 RT - 157+15 RT	SOYD	867
DITCHING	166+32RT - 167+32RT	L.F.	100

CULVERT PIPE				
STATION	LENGTH	DIAMETER	INLET HEADWALL	OUTLET HEADWALL
154+63	42'	24"	DBI TYPE 5E	S&F

GUARDRAIL ITEMS LT			
ITEM	STATION	UNIT	QUANTITY
END TREATMENT TYPE 1	161+78 - 162+28	EA.	1
STEEL "W" BEAM S FACE	162+28 - 163+66	L.F.	137.5
STEEL "W" BEAM S FACE A	163+66 - 163+91	L.F.	25
STEEL "W" BEAM S FACE BR	163+91 - 164+10	L.F.	19
STEEL "W" BEAM S FACE A	164+10 - 164+35	L.F.	25
STEEL "W" BEAM S FACE	164+35 - 164+60	L.F.	25
END TREATMENT TYPE 1	164+60	EA.	1

DITCH CONSTRUCTION LT @					
STA. TO STA.	SIZE/TYPE	LENGTH	CHANNEL LINING		
			TYPE	DEPTH	QUANTITY
149+00 - 157+15	SPECIAL	815'	ECB	1.5'	730 SOYD

DITCH CONSTRUCTION RT @					
STA. TO STA.	SIZE/TYPE	LENGTH	CHANNEL LINING		
			TYPE	DEPTH	QUANTITY
150+63	'V' DITCH	20'	ECB	1.0'	20 SOYD
154+63	'V' DITCH	50'	ECB	1.0'	45 SOYD

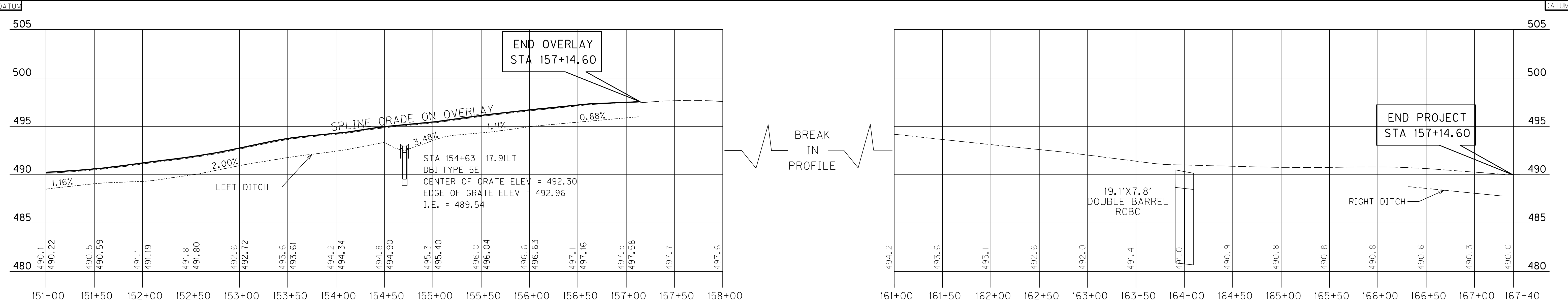
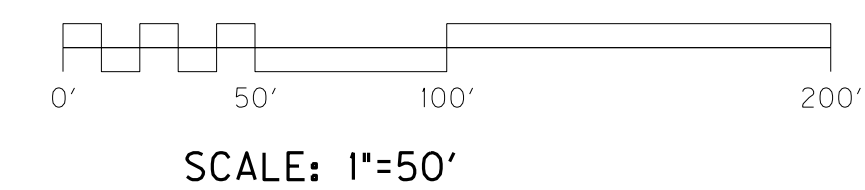
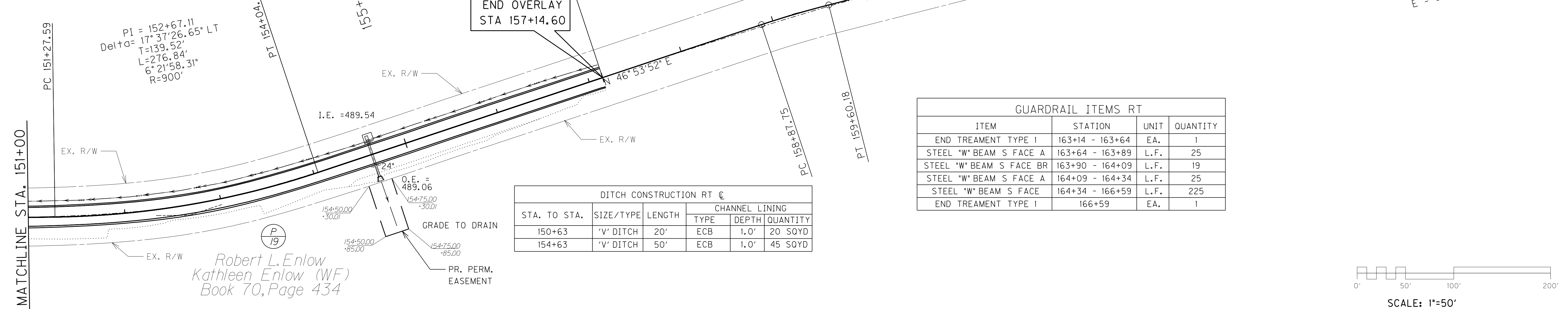
GUARDRAIL ITEMS RT			
ITEM	STATION	UNIT	QUANTITY
END TREATMENT TYPE 1	163+14 - 163+64	EA.	1
STEEL "W" BEAM S FACE A	163+64 - 163+89	L.F.	25
STEEL "W" BEAM S FACE BR	163+90 - 164+09	L.F.	19
STEEL "W" BEAM S FACE A	164+09 - 164+34	L.F.	25
STEEL "W" BEAM S FACE	164+34 - 166+59	L.F.	225
END TREATMENT TYPE 1	166+59	EA.	1

Robert L. Enlow
Kathleen Enlow (WF)
Book 70, Page 434

Robert L. Enlow
Kathleen Enlow (WF)
Book 70, Page 434

PI 159+23.99
Delta = 4°08'59.54"
T = 36.23
L = 72.43
R = 1000.00
E = 0.66

Delta = 2°30'52.29"
T = 21.95
L = 43.89
R = 1000.00
E = 0.24



US 31E
PLAN AND PROFILE SHEET
STA. 151+00 TO STA. 167+40
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

FILE NAME: G:\PWORK\BEN_HORNBACK\00163649\01200PL.DGN
 USER: ben.hornback
 DATE PLOTTED: October 23, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

CONSTRUCTION ITEMS			
ITEM	STATION	UNIT	QUANTITY
DITCHING	154+63 RT	L.F.	50
SEEDING AND PROTECTION	148+00 LT - 157+15 RT	SOYD	410
SEEDING AND PROTECTION	148+00 RT - 157+15 RT	SOYD	867
DITCHING	166+32RT - 167+32RT	L.F.	100

CULVERT PIPE				
STATION	LENGTH	DIAMETER	INLET HEADWALL	OUTLET HEADWALL
154+63	42'	24"	DBI TYPE 5E	S&F

GUARDRAIL ITEMS LT			
ITEM	STATION	UNIT	QUANTITY
END TREATMENT TYPE 1	161+78 - 162+28	EA.	1
STEEL "W" BEAM S FACE	162+28 - 163+66	L.F.	137.5
STEEL "W" BEAM S FACE A	163+66 - 163+91	L.F.	25
STEEL "W" BEAM S FACE BR	163+91 - 164+10	L.F.	19
STEEL "W" BEAM S FACE A	164+10 - 164+35	L.F.	25
STEEL "W" BEAM S FACE	164+35 - 164+60	L.F.	25
END TREATMENT TYPE 1	164+60	EA.	1

DITCH CONSTRUCTION LT @					
STA. TO STA.	SIZE/TYPE	LENGTH	CHANNEL LINING		
			TYPE	DEPTH	QUANTITY
149+00 - 157+15	SPECIAL	815'	ECB	1.5'	730 SOYD

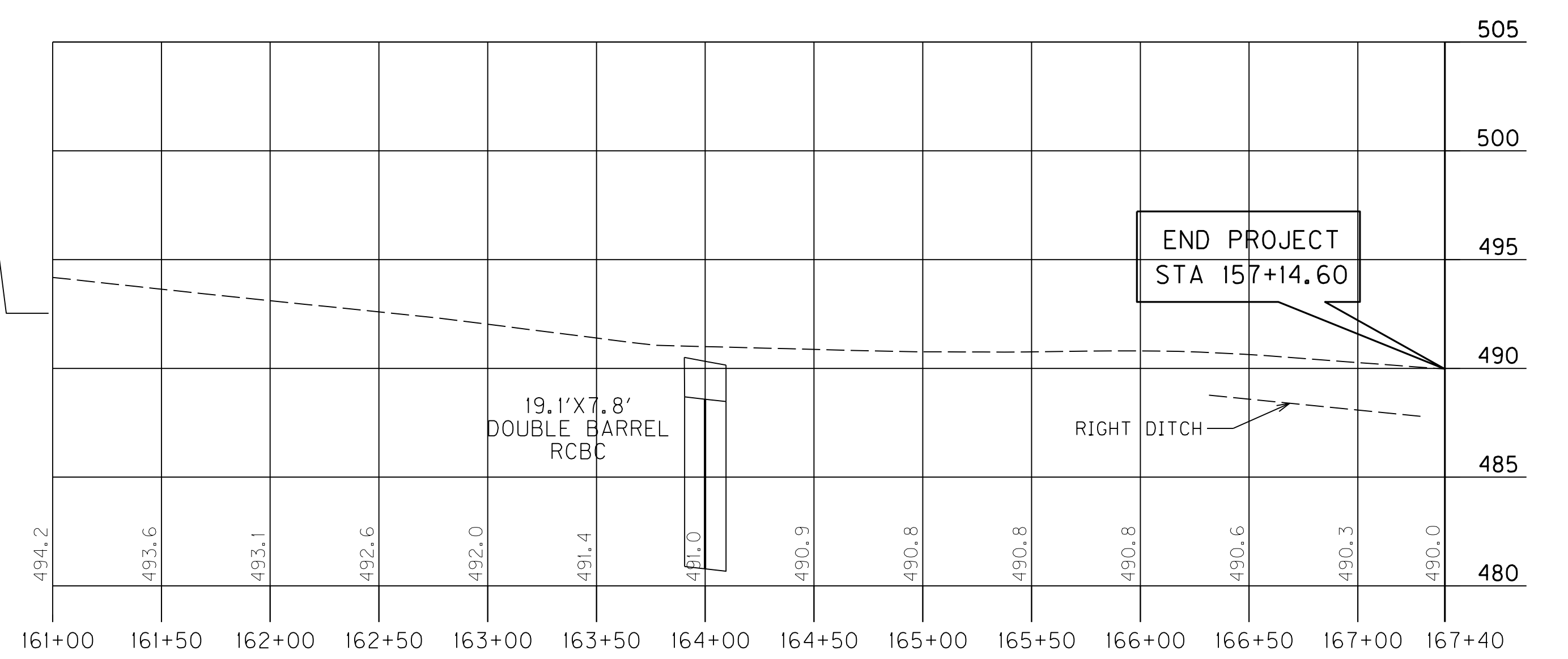
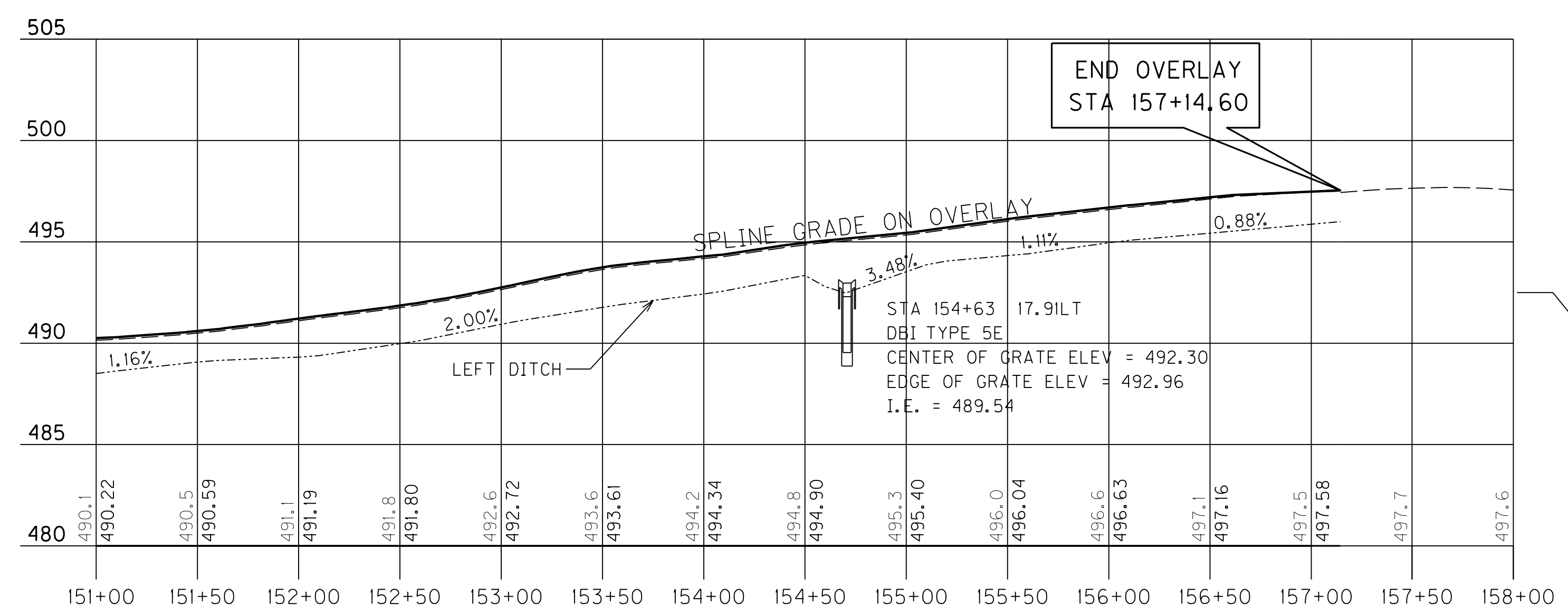
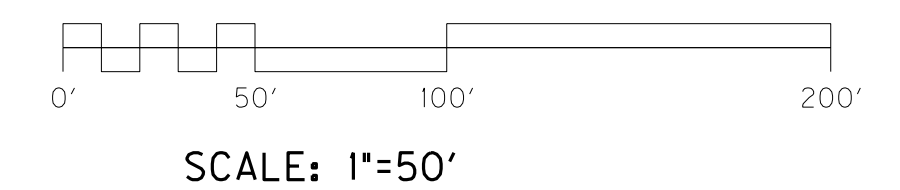
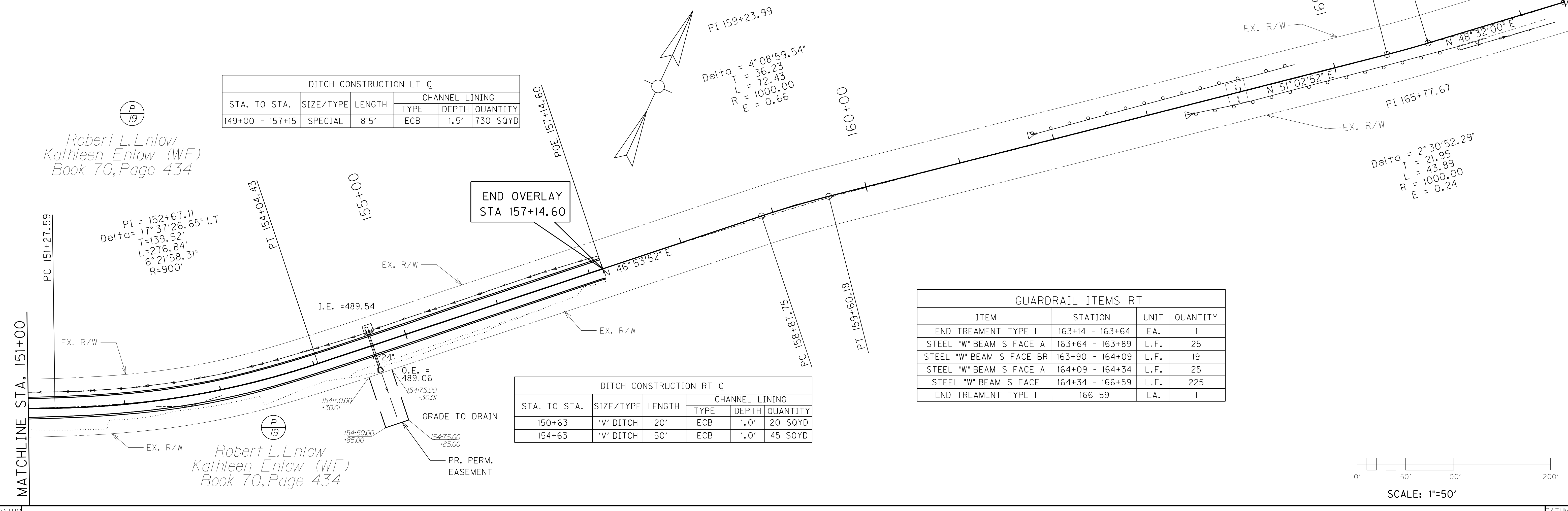
DITCH CONSTRUCTION RT @					
STA. TO STA.	SIZE/TYPE	LENGTH	CHANNEL LINING		
			TYPE	DEPTH	QUANTITY
150+63	'V' DITCH	20'	ECB	1.0'	20 SOYD
154+63	'V' DITCH	50'	ECB	1.0'	45 SOYD

GUARDRAIL ITEMS RT			
ITEM	STATION	UNIT	QUANTITY
END TREATMENT TYPE 1	163+14 - 163+64	EA.	1
STEEL "W" BEAM S FACE A	163+64 - 163+89	L.F.	25
STEEL "W" BEAM S FACE BR	163+90 - 164+09	L.F.	19
STEEL "W" BEAM S FACE A	164+09 - 164+34	L.F.	25
STEEL "W" BEAM S FACE	164+34 - 166+59	L.F.	225
END TREATMENT TYPE 1	166+59	EA.	1

REVISD 11-01-2012
 END PROJECT
 STA 167+40.00

Robert L. Enlow
 Kathleen Enlow (WF)
 Book 70, Page 434

Robert L. Enlow
 Kathleen Enlow (WF)
 Book 70, Page 434



US 31E
 PLAN AND PROFILE SHEET
 STA. 151+00 TO STA. 167+40
 SCALE: 1" = 50' HORIZONTAL
 1" = 5' VERTICAL

FILE NAME: G:\PWORK\BEN_HORNBACK\00163649\01200PL.DGN
 USER: ben.hornback
 DATE PLOTTED: October 23, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	04-8504	R23

PAVEMENT DROP-OFF

Pavement edges that traffic is not expected to cross, except accidentally, should be treated as follows:

- Less than 2 inches - No protection required. Warning signs should be placed in advance and through the drop-off area.
- Greater than 2 inches - Place plastic drums, vertical panels, or barricades every 100 feet on tangent sections for speeds of 50 miles per hour or greater.
For tangent sections with speeds less than 50 miles per hour and for curves, devices should be placed every 50 feet. Spacing for tapers should be in accordance with the Manual on Uniform Traffic Control Devices.
- Greater than four inches - Barrier required. Install barrier wall delineators of appropriate color on the side of the wall facing traffic.

LANE CLOSURES

Contractor shall, a week in advance, provide the Project Engineer with estimated dates and durations of weekly lane closures for notification of the public.

Daytime single-lane closures are permitted between the hours of 8:00am and 4:00pm. Daytime single-lane closures shall not exceed 1 mile in length.

TEMPORARY SIGNALS

A 30-day single-lane closure shall be permitted for the construction of retaining walls and the extensions of the 10'x4' culvert at station 31+91. Long-term closures shall not exceed 1 mile in length.

MINIMUM TEMPORARY PAVEMENT WIDTH

The minimum pavement width shall be 10' per lane. Any modification to the widths shown will be reviewed and approved by the engineers.

CONSTRUCTION PHASING AND MAINTENANCE OF TRAFFIC

PHASE 1 - Construct off-alignment sections that do not require daytime lane closures and construct pipes on existing US 31E. Maintain traffic on existing US 31E.

PHASE 2 - Maintain traffic on existing US 31E. A single-lane daytime closure may be used during construction adjacent to existing pavement.

PHASE 3 - Shift traffic to new US 31E pavement. Remove old sections of US 31E. A single-lane daytime closure may be used during construction adjacent to new pavement.

BLASTING OPERATIONS

During blasting operations, traffic may be halted a maximum of 15 minutes per hour to allow the execution of the shot and to allow for removal of rock fragments and debris.

Hours of blasting operations

Monday - Thursday	9:00am-11:00am	6:00pm-9:00pm
Friday	9:00am-10:00am	6:00pm-9:00pm

LIQUIDATED DAMAGES

Contrary to the current edition of the *Standard Specifications for Road and Bridge Construction, Section 108.09:*

Liquidated Damages shall be assessed at the rate of \$500/hr for each hour or part hour that daytime lane closures extend outside the permitted 8:00am to 4:00pm hours.

Liquidated Damages shall be assessed at the rate of \$500/hr for each hour or part hour that the Contractor conducts blasting operations outside the permitted hours listed above.

Liquidated Damages shall be assessed at the rate of \$500/hr for each additional 15 minutes or part of fifteen minutes per hour that the Contractor halts traffic for blasting operations.

Liquidated Damages for the completion of all other work necessary to complete the project shall be assessed in accordance with the current edition of the *Standard Specifications for Road and Bridge Construction, Section 108.09.*

FILE NAME: G:\PWORK\BEN_HORNBACK\00163649\R02300MT.DGN

USER: ben.hornback
DATE PLOTTED: October 23, 2012

E-SHEET NAME:

MicroStation v8.11.7.443

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	04-8504	R23

 REVISED 11-01-2012


PAVEMENT DROP-OFF

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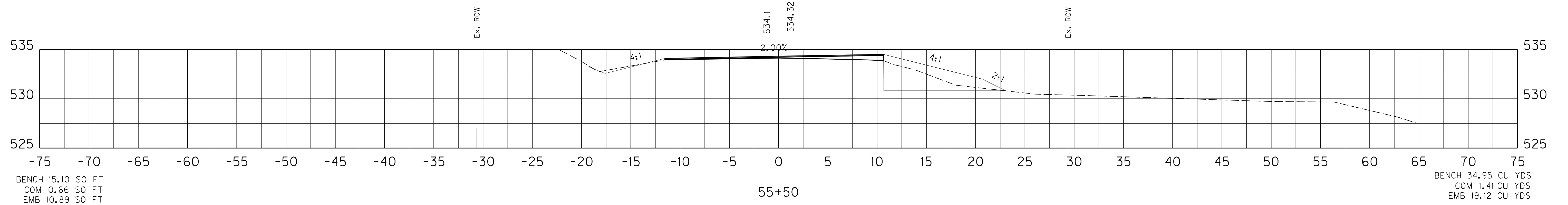
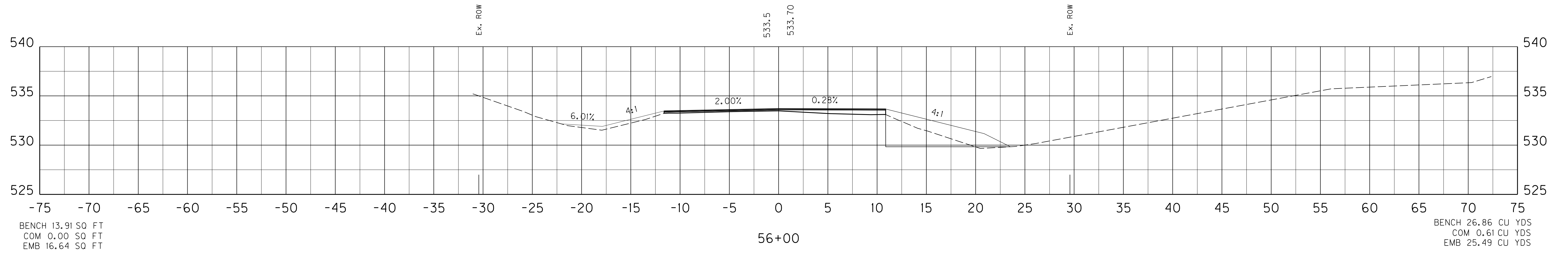
USER: ben.hornback
DATE PLOTTED: October 23, 2012

E-SHEET NAME:

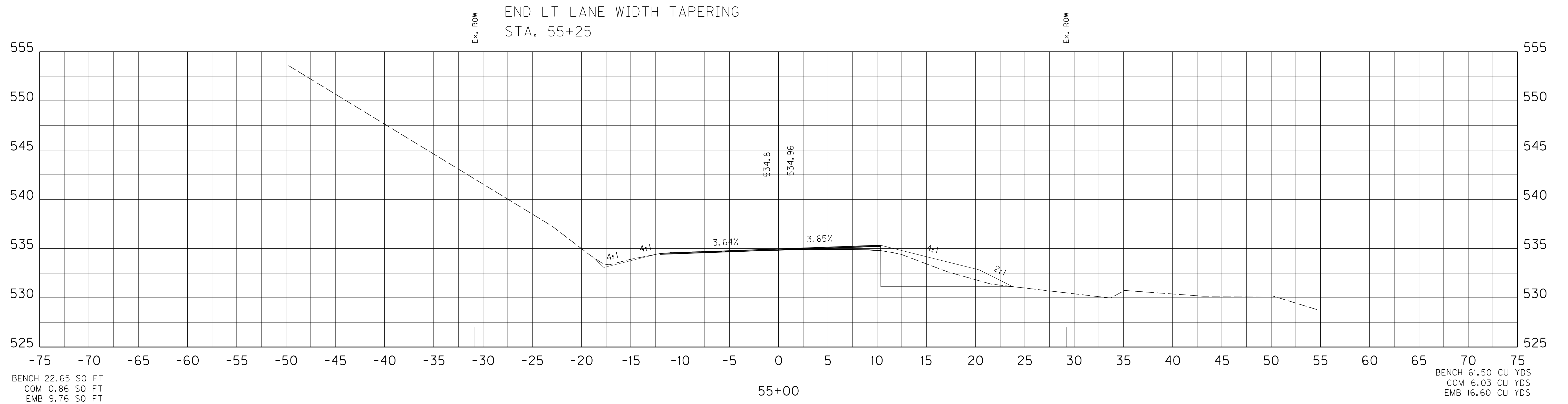
MicroStation v8.11.7.443

SHEET TOTALS: BENCH 123.31 CU YDS
 COM 8.05 CU YDS
 EMB 61.21 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X19



END LT LANE WIDTH TAPERING
 STA. 55+25



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

US 31 MAINLINE
 STA. 55+00 TO STA. 56+00

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X01900XS

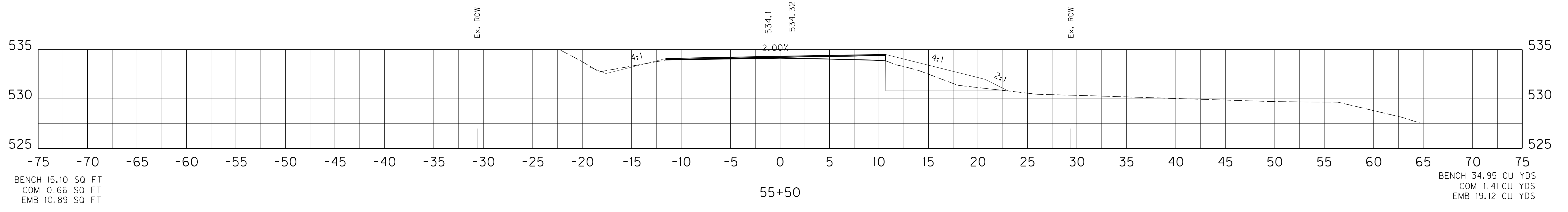
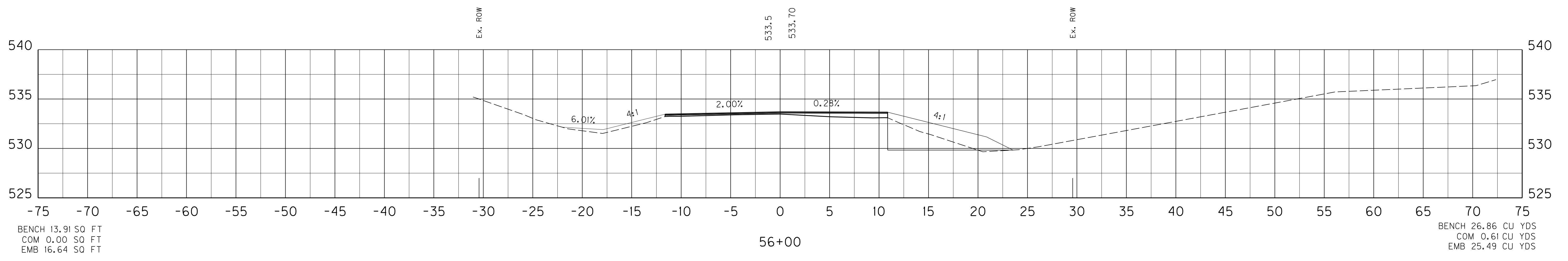
MicroStation v8.11.7.443

SHEET TOTALS: BENCH 123.31 CU YDS
COM 8.05 CU YDS
EMB 61.21 CU YDS

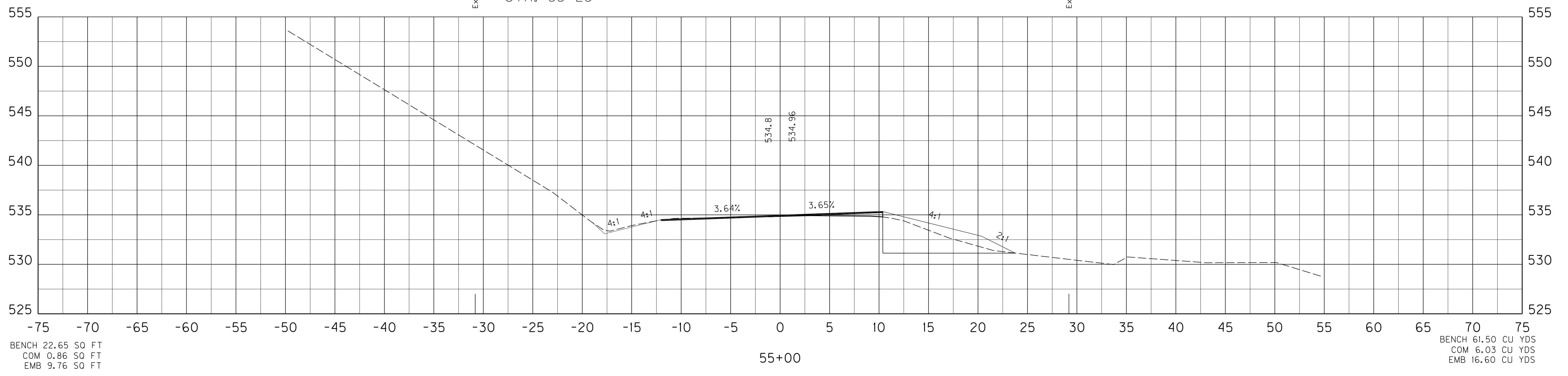
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X19

REVISION 11-01-2012

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X000000X.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X01900XS
 MicroStation v8.11.7.443



END LT LANE WIDTH TAPERING
STA. 55+25



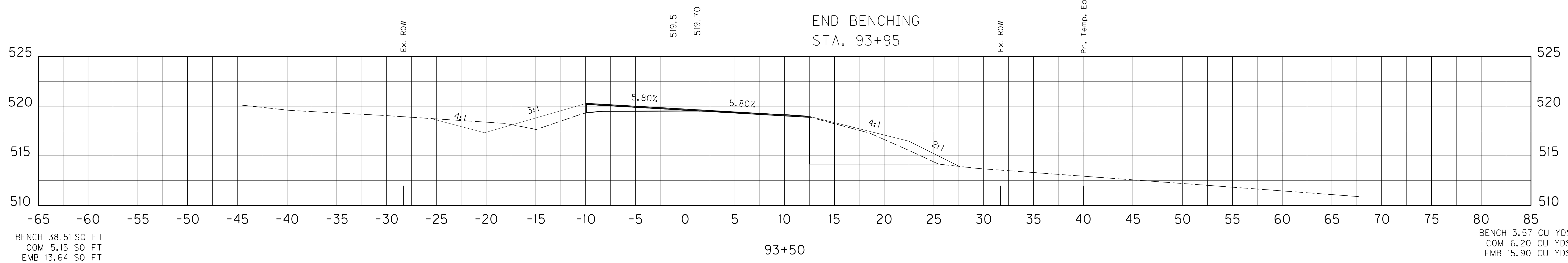
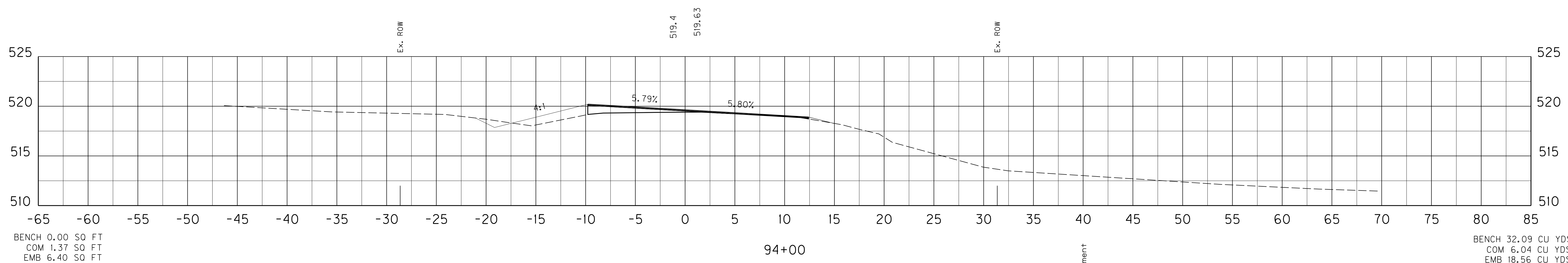
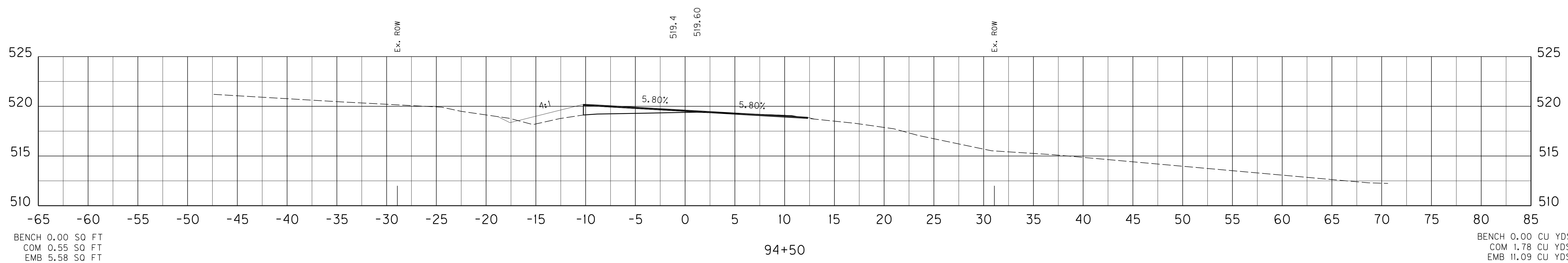
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

US 31 MAINLINE
STA. 55+00 TO STA. 56+00

SHEET TOTALS: BENCH 35.66 CU YDS
 COM 14.02 CU YDS
 EMB 45.55 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X30

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X03000XS
 MicroStation v8.11.7.443



END BENCHING
 STA. 93+95

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

US 31 MAINLINE
 STA. 93+50 TO STA. 94+50

SHEET TOTALS: BENCH 35.66 CU YDS
 COM 14.02 CU YDS
 EMB 45.55 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X30

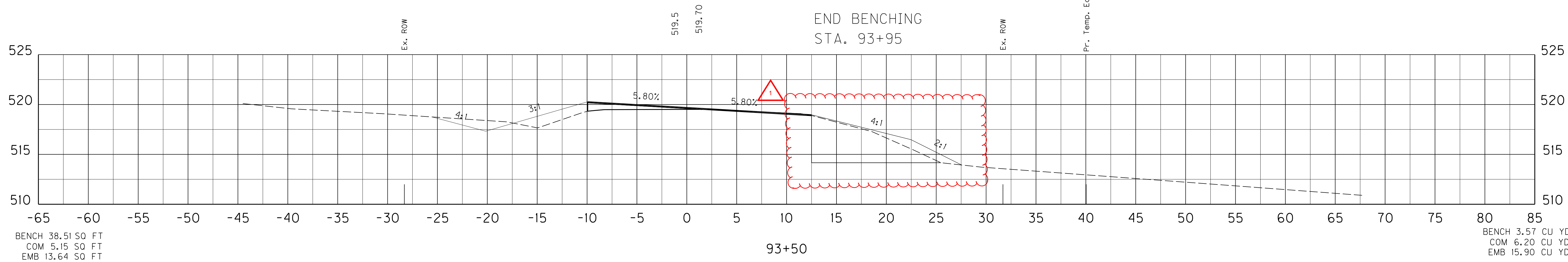
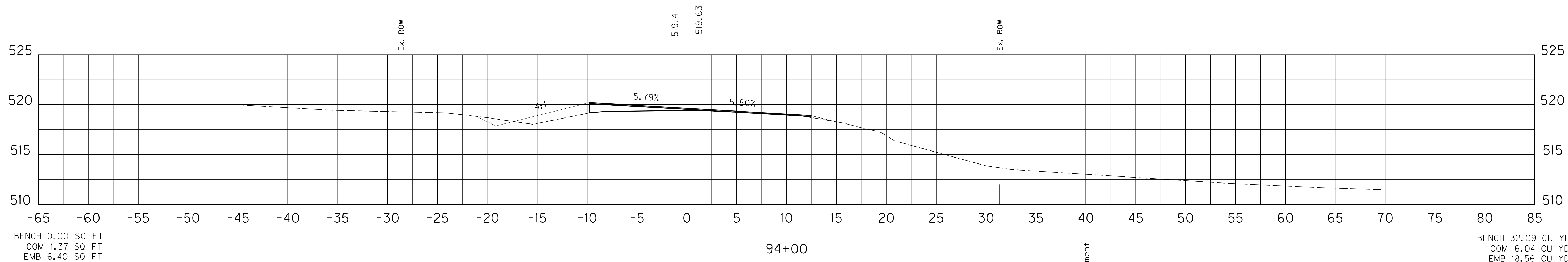
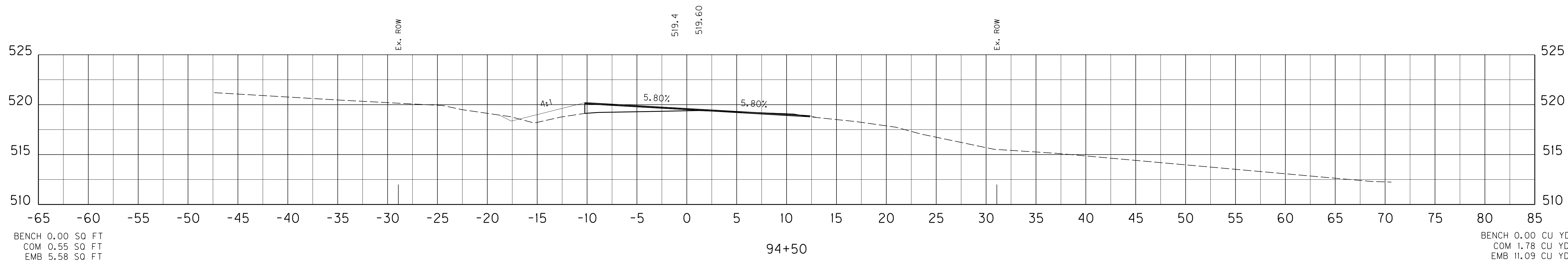
REVIS 11-01-2012

FILE NAME: G:\PWORK\BEN_HORNBACK\0675172\X00000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X03000XS

MicroStation v8.11.7.443

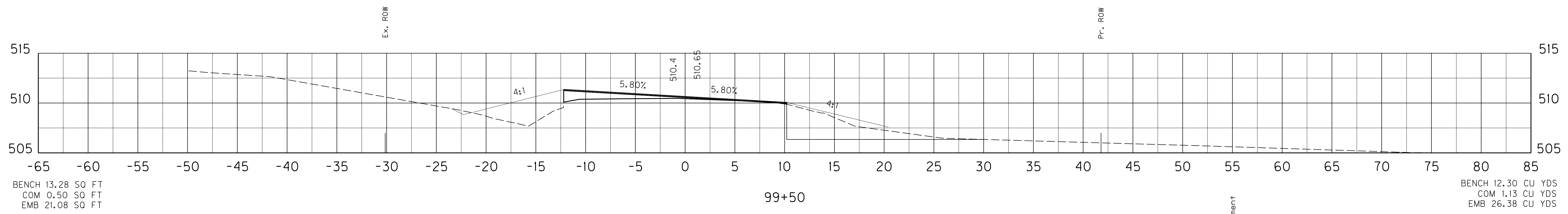


SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

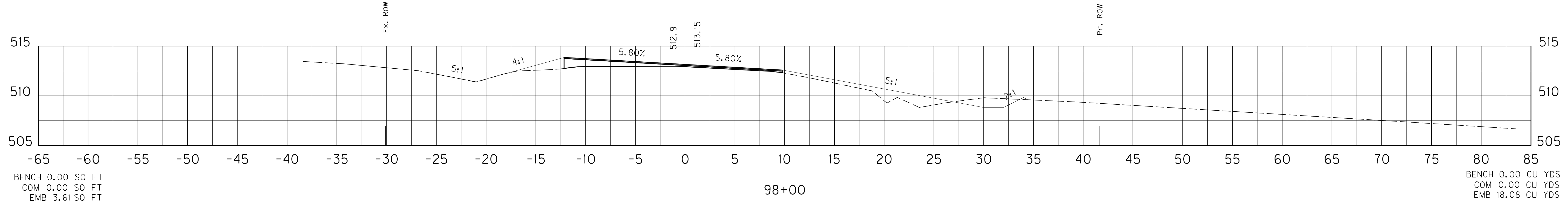
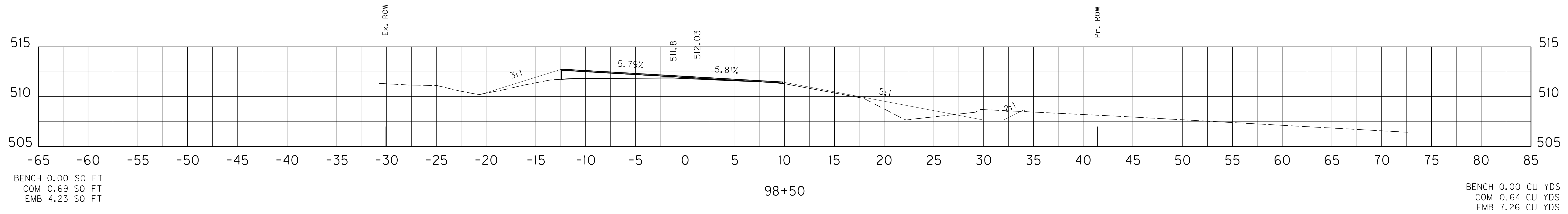
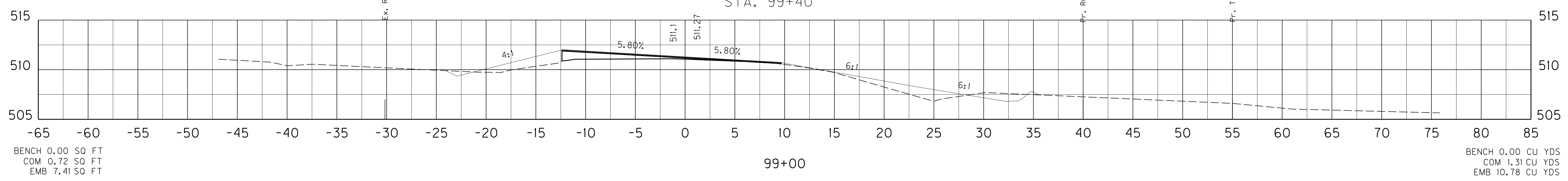
US 31 MAINLINE
 STA. 93+50 TO STA. 94+50

SHEET TOTALS: BENCH 12.30 CU YDS
COM 3.08 CU YDS
EMB 62.50 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X33



BEGIN BENCHING
STA. 99+40



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

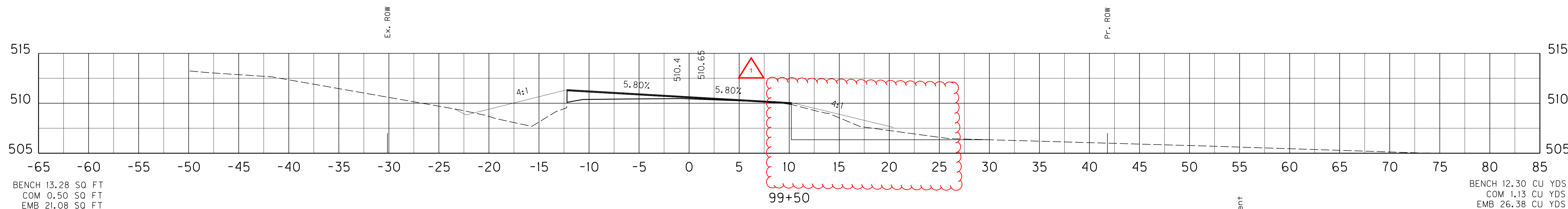
US 31 MAINLINE
STA. 98+00 TO STA. 99+50

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X03300XS
 MicroStation v8.11.7.443

SHEET TOTALS: BENCH 12.30 CU YDS
COM 3.08 CU YDS
EMB 62.50 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X33

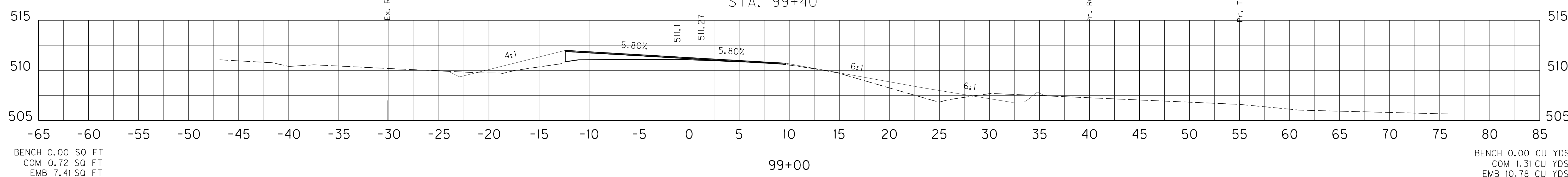
REVISION 11-01-2012



BENCH 13.28 SQ FT
COM 0.50 SQ FT
EMB 21.08 SQ FT

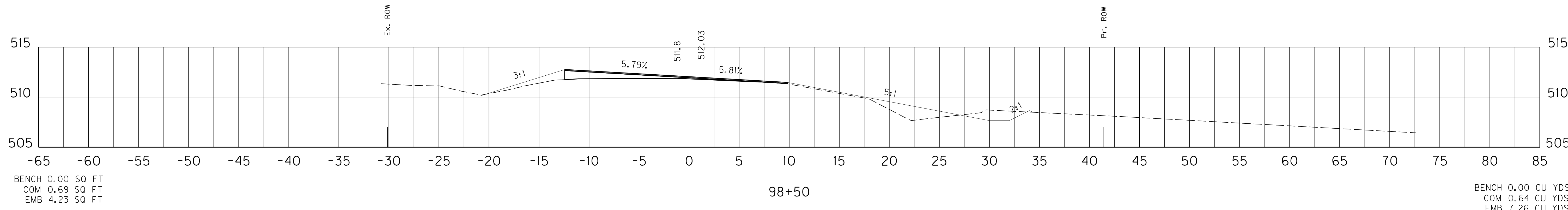
BENCH 12.30 CU YDS
COM 1.13 CU YDS
EMB 26.38 CU YDS

BEGIN BENCHING
STA. 99+40



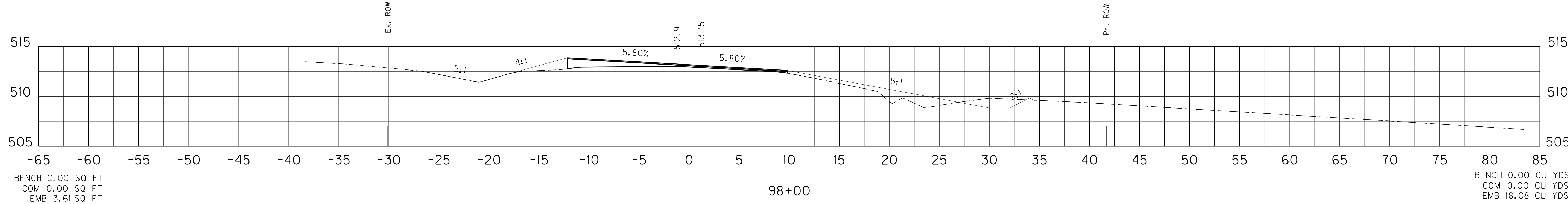
BENCH 0.00 SQ FT
COM 0.72 SQ FT
EMB 7.41 SQ FT

BENCH 0.00 CU YDS
COM 1.31 CU YDS
EMB 10.78 CU YDS



BENCH 0.00 SQ FT
COM 0.69 SQ FT
EMB 4.23 SQ FT

BENCH 0.00 CU YDS
COM 0.64 CU YDS
EMB 7.26 CU YDS



BENCH 0.00 SQ FT
COM 0.00 SQ FT
EMB 3.61 SQ FT

BENCH 0.00 CU YDS
COM 0.00 CU YDS
EMB 18.08 CU YDS

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

US 31 MAINLINE
STA. 98+00 TO STA. 99+50

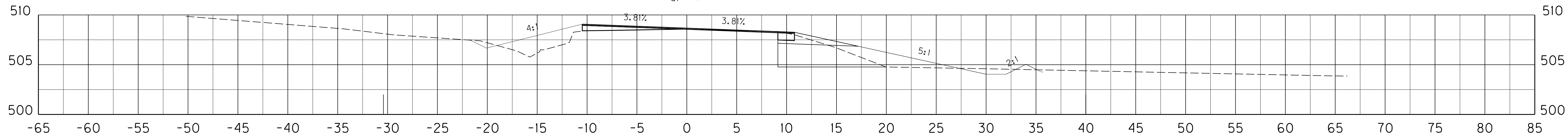
FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X03300XS
 MicroStation v8.11.7.443

SHEET TOTALS: BENCH 120.30 CU YDS
 COM 4.37 CU YDS
 EMB 83.11 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X34

END LT LANE WIDTH TAPER
 STA. 101+32

BEGIN LT PAVED SHOULDER TAPER
 STA. 101+32



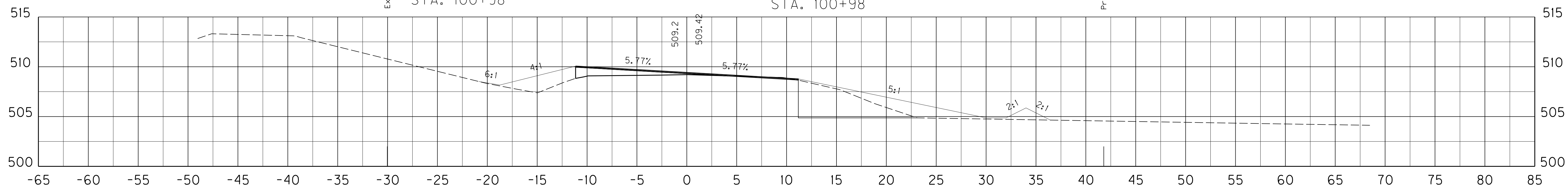
BENCH 14.65 SQ FT
 COM 0.81 SQ FT
 EMB 17.76 SQ FT

BEGIN PARTIAL WIDTH CONSTRUCTION
 STA. 100+98
 BEGIN RT/LT EARTH SHOULDER TAPER
 STA. 100+98

101+00

BEGIN RT/LT LANE WIDTH TAPER
 STA. 100+98

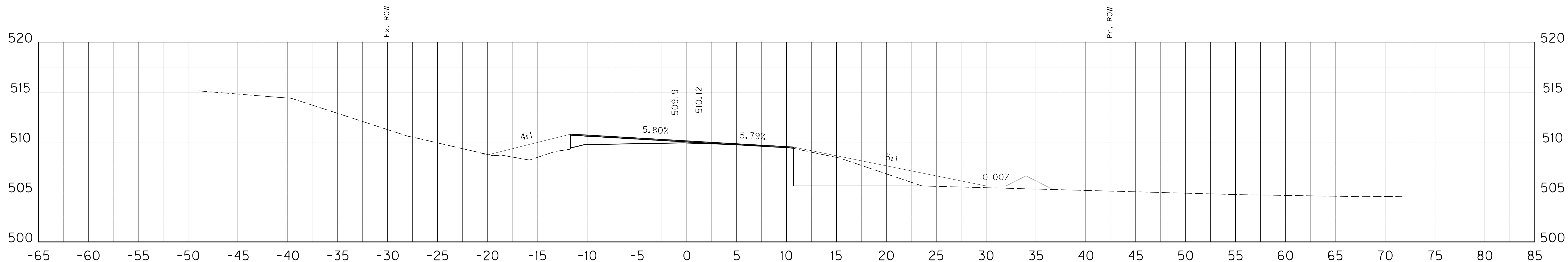
BENCH 36.08 CU YDS
 COM 3.72 CU YDS
 EMB 29.05 CU YDS



BENCH 24.32 SQ FT
 COM 0.00 SQ FT
 EMB 13.61 SQ FT

100+50

BENCH 47.22 CU YDS
 COM 0.09 CU YDS
 EMB 23.57 CU YDS



BENCH 26.68 SQ FT
 COM 0.10 SQ FT
 EMB 11.85 SQ FT

100+00

BENCH 37.00 CU YDS
 COM 0.56 CU YDS
 EMB 30.49 CU YDS

FILE NAME: G:\PWORK\BEN_HORNBACK\0675172\X000000X.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X03400XS

MicroStation v8.11.7.443

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

US 31 MAINLINE
 STA. 100+00 TO STA. 101+00

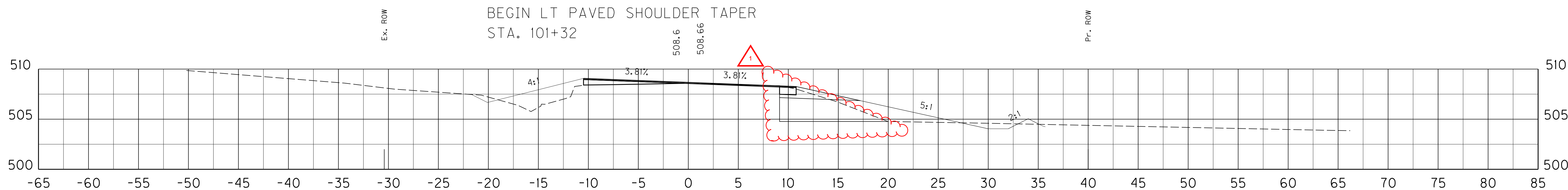
SHEET TOTALS: BENCH 120.30 CU YDS
COM 4.37 CU YDS
EMB 83.11 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X34

1 REVISED 11-01-2012

END LT LANE WIDTH TAPER
STA. 101+32

BEGIN LT PAVED SHOULDER TAPER
STA. 101+32

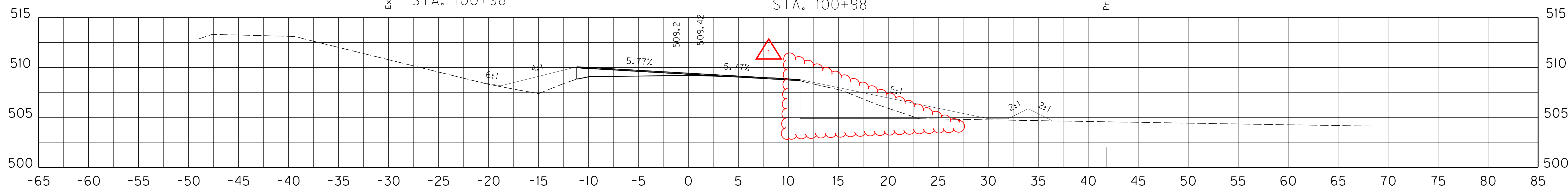


BENCH 14.65 SQ FT
COM 0.81 SQ FT
EMB 17.76 SQ FT

BEGIN PARTIAL WIDTH CONSTRUCTION
STA. 100+98
BEGIN RT/LT EARTH SHOULDER TAPER
STA. 100+98

101+00
BEGIN RT/LT LANE WIDTH TAPER
STA. 100+98

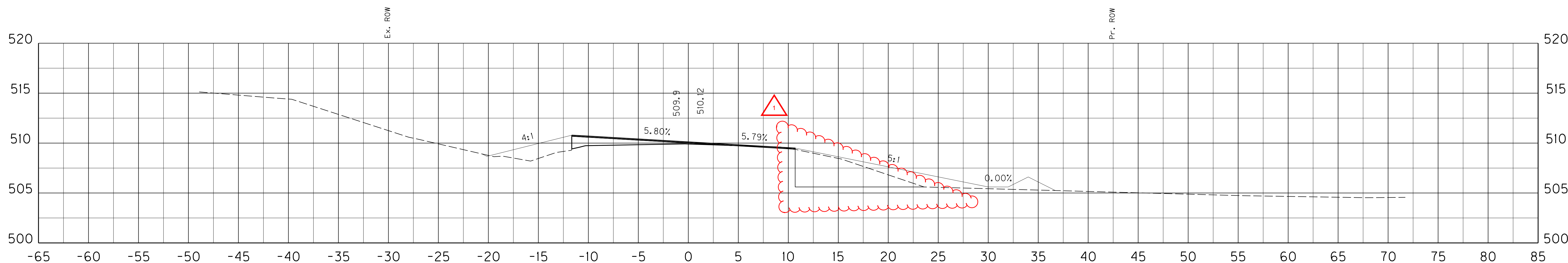
BENCH 36.08 CU YDS
COM 3.72 CU YDS
EMB 29.05 CU YDS



BENCH 24.32 SQ FT
COM 0.00 SQ FT
EMB 13.61 SQ FT

100+50

BENCH 47.22 CU YDS
COM 0.09 CU YDS
EMB 23.57 CU YDS



BENCH 26.68 SQ FT
COM 0.10 SQ FT
EMB 11.85 SQ FT

100+00

BENCH 37.00 CU YDS
COM 0.56 CU YDS
EMB 30.49 CU YDS

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

US 31 MAINLINE
STA. 100+00 TO STA. 101+00

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X000000X.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

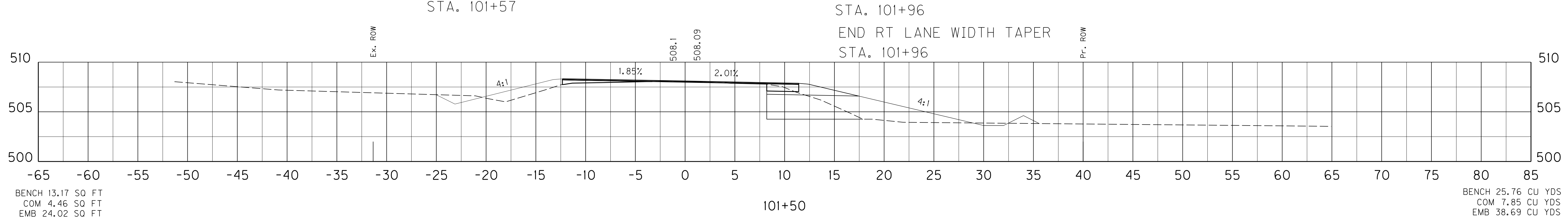
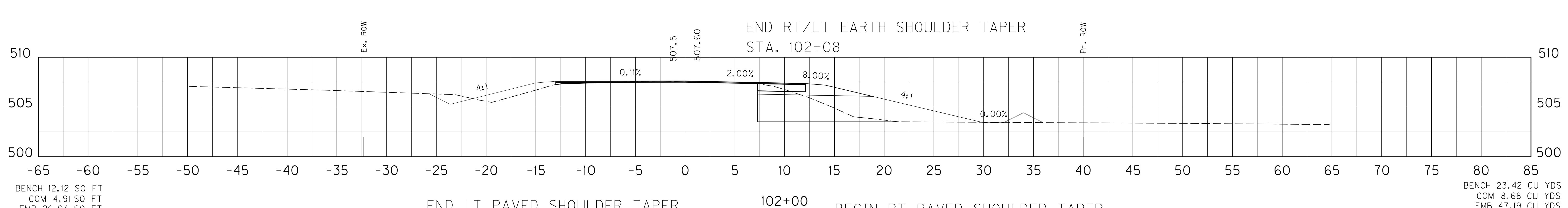
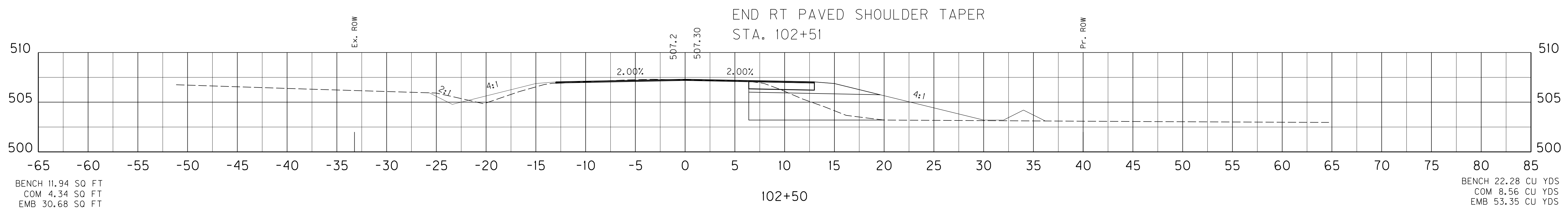
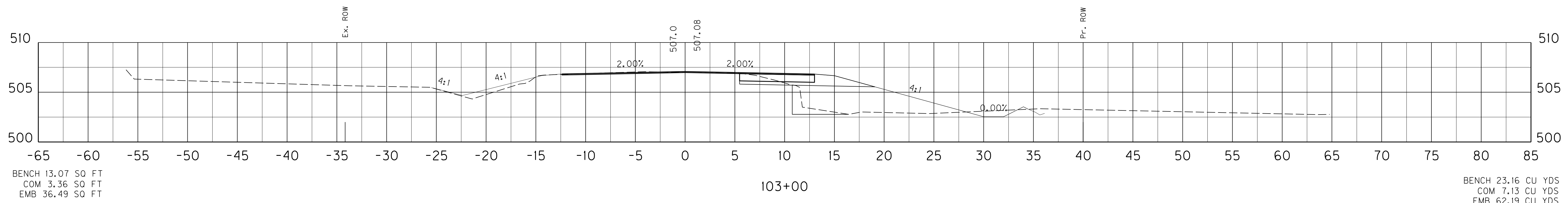
E-SHEET NAME: X03400XS

MicroStation v8.11.7.443

SHEET TOTALS: BENCH 94.62 CU YDS
COM 32.22 CU YDS
EMB 201.42 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X35

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X03500XS
 MicroStation v8.11.7.443



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

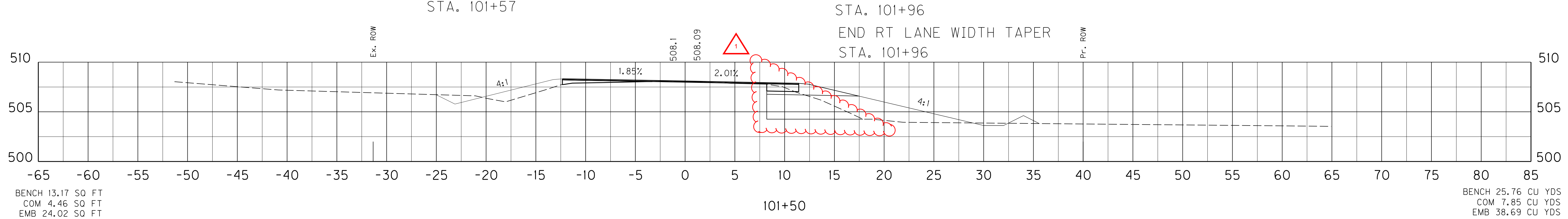
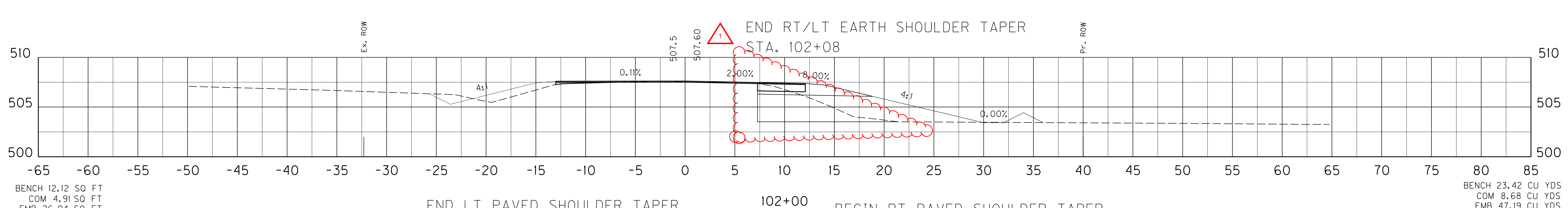
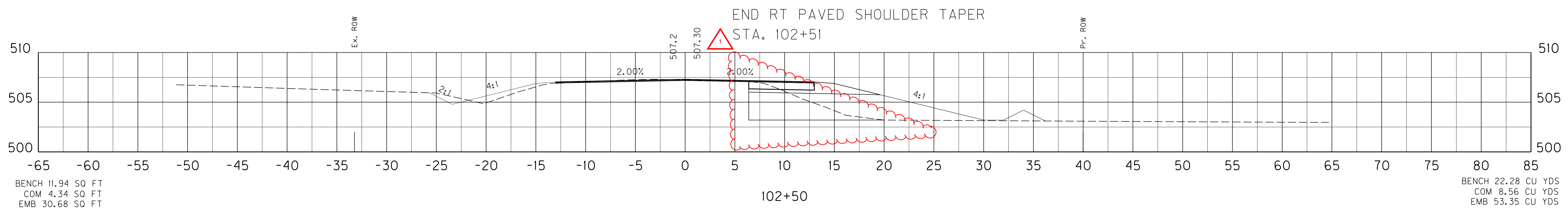
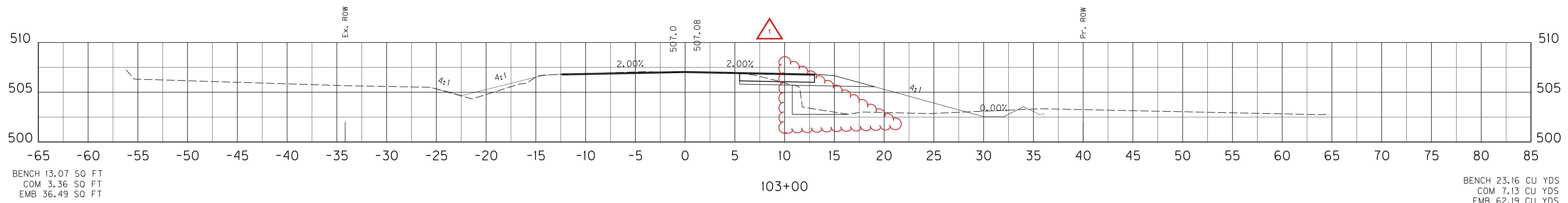
US 31 MAINLINE
STA. 101+50 TO STA. 103+00

SHEET TOTALS: BENCH 94.62 CU YDS
COM 32.22 CU YDS
EMB 201.42 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X35

1 REVISED 11-01-2012

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
USER: ben.hornback
DATE PLOTTED: October 16, 2012
E-SHEET NAME: X03500XS
MicroStation v8.11.7.443



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

US 31 MAINLINE
STA. 101+50 TO STA. 103+00

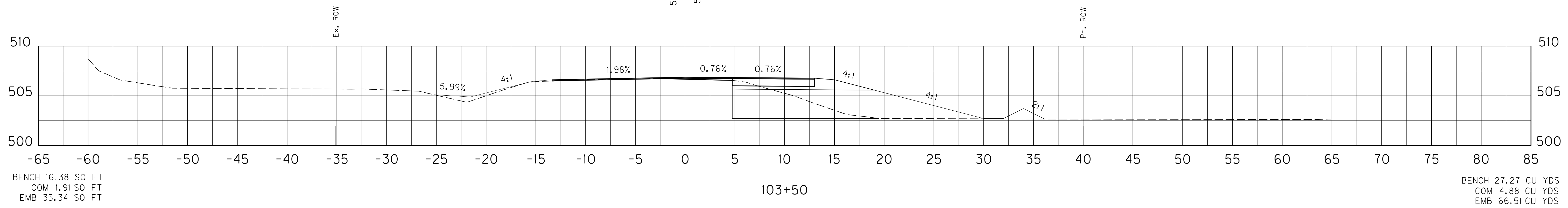
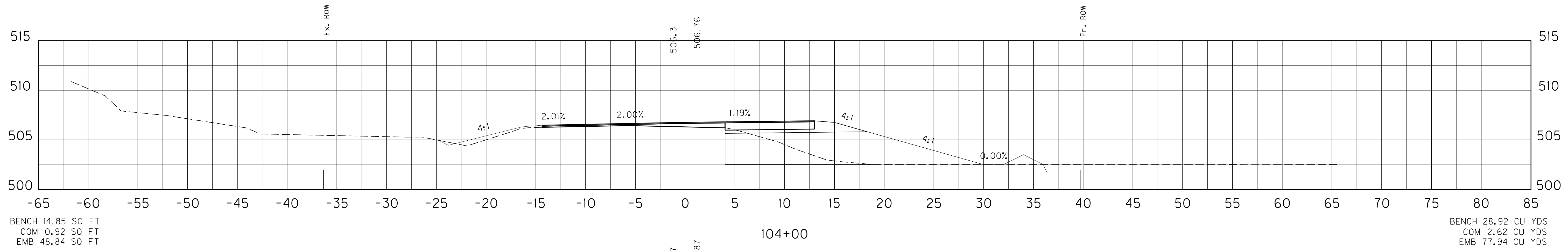
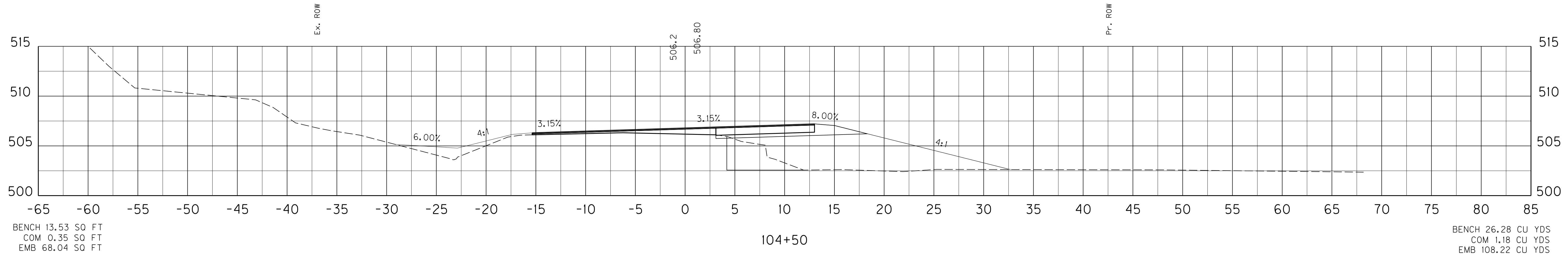
SHEET TOTALS: BENCH 82.47 CU YDS
 COM 8.68 CU YDS
 EMB 252.67 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X36

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X03600XS
 MicroStation v8.11.7.443



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

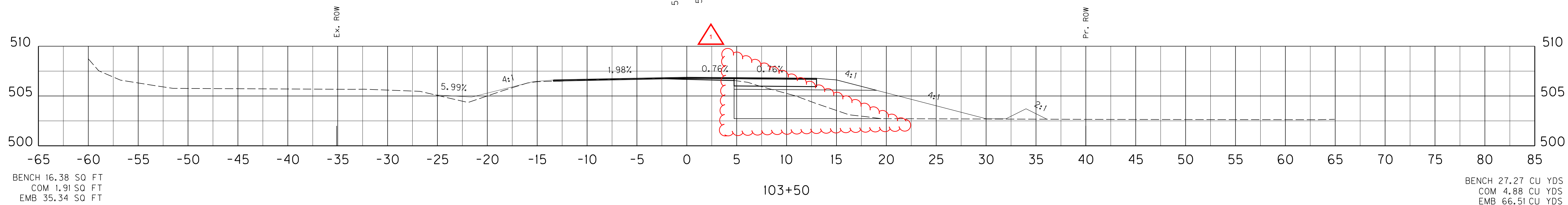
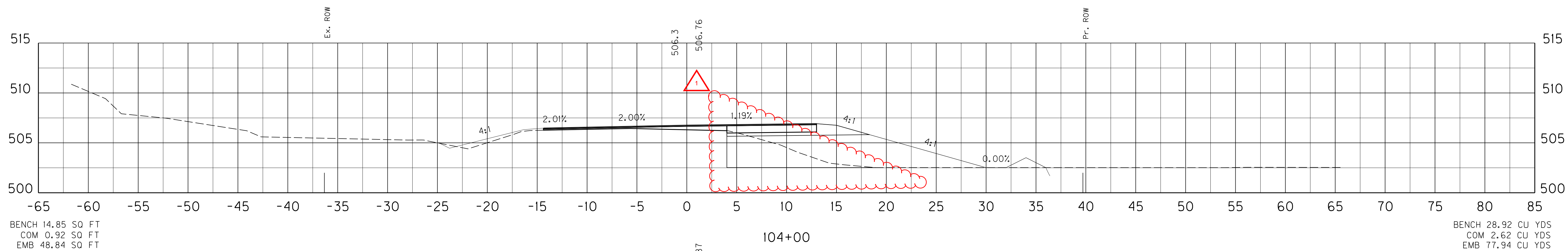
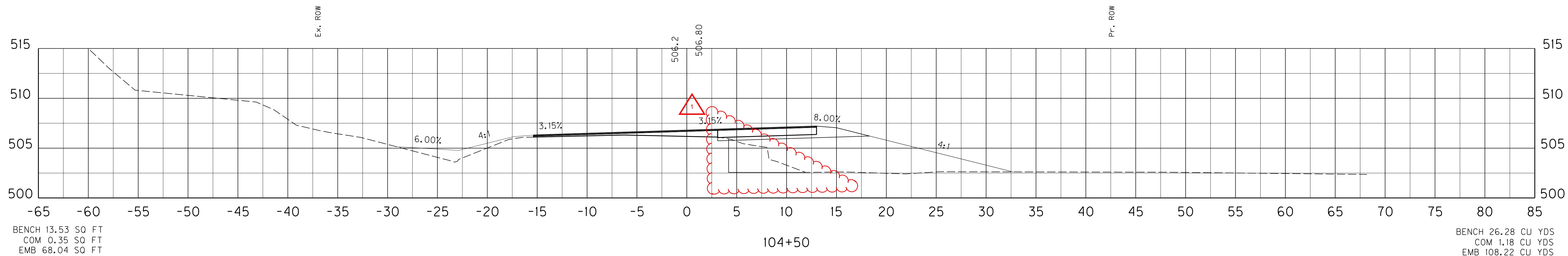
US 31 MAINLINE
 STA.103+50 TO STA.104+50

SHEET TOTALS: BENCH 82.47 CU YDS
COM 8.68 CU YDS
EMB 252.67 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X36

1 REVISD 11-01-2012

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X03600XS
 MicroStation v8.11.7.443



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

US 31 MAINLINE
STA.103+50 TO STA.104+50

SHEET TOTALS: BENCH 71.33 CU YDS
 COM 8.37 CU YDS
 EMB 290.29 CU YDS

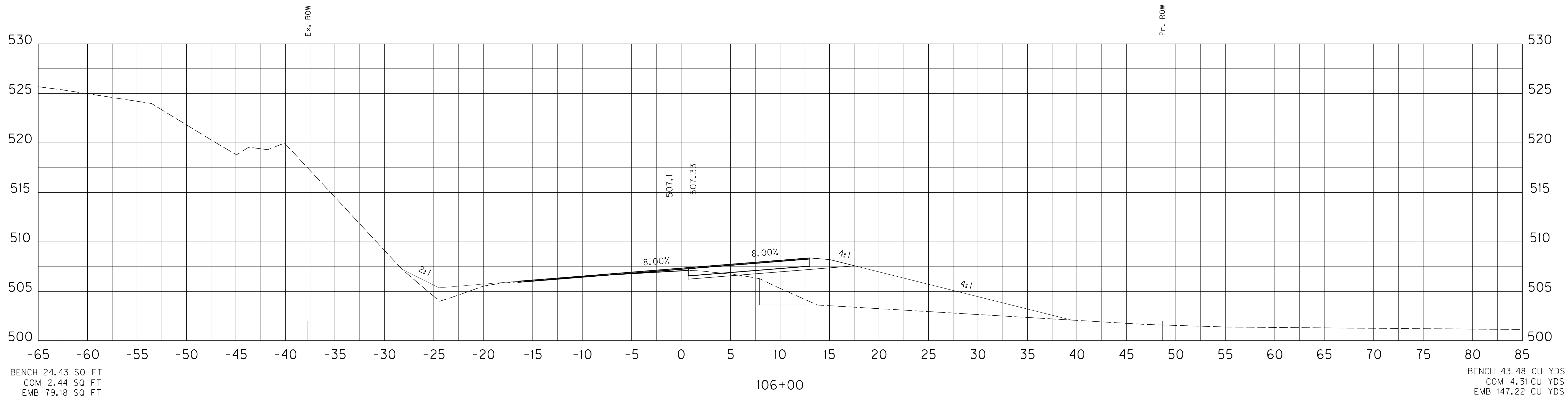
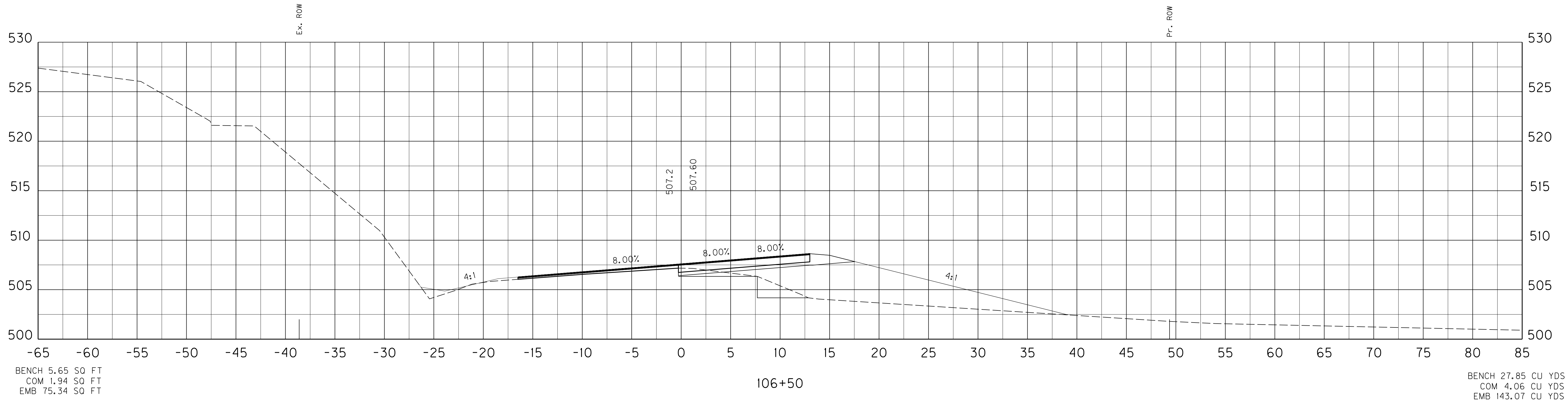
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X38

FILE NAME: G:\PWORK\BEN_HORNBACK\0675172\X00000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X03800XS

MicroStation v8.11.7.443



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

US 31 MAINLINE
 STA. 106+00 TO STA. 106+50

SHEET TOTALS: BENCH 71.33 CU YDS
COM 8.37 CU YDS
EMB 290.29 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X38

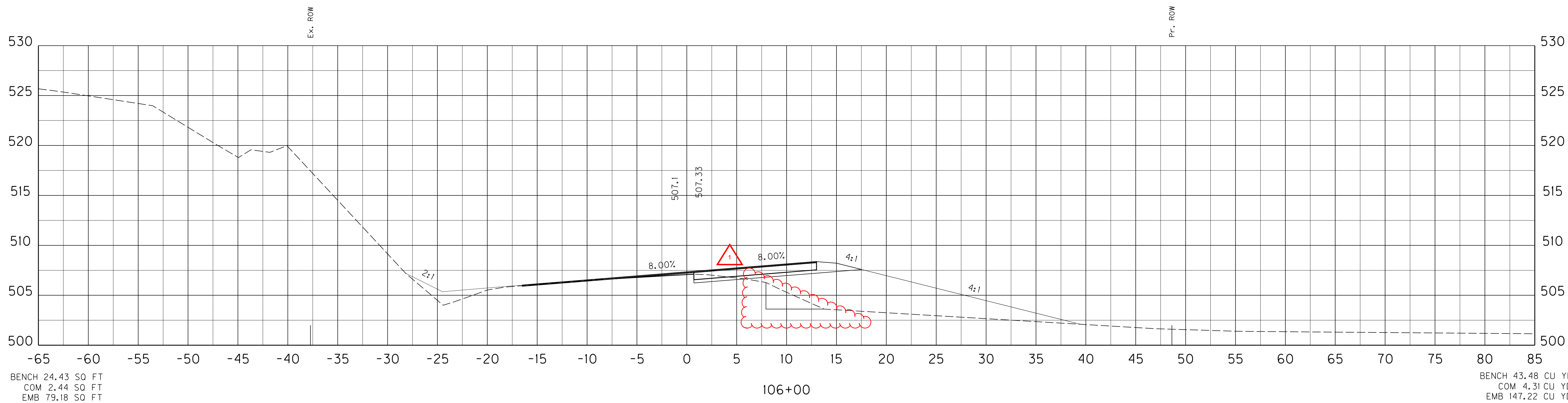
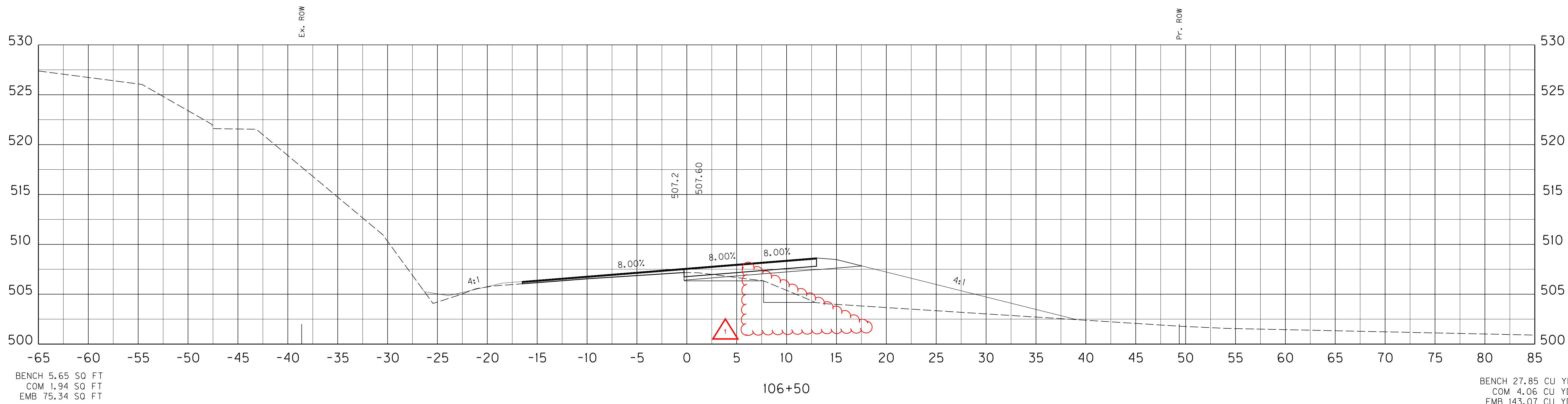
 REVISED 11-01-2012

FILE NAME: G:\PWORK\BEN_HORNBACK\0675172\X00000XS.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

E-SHEET NAME: X03800XS

MicroStation v8.11.7.443



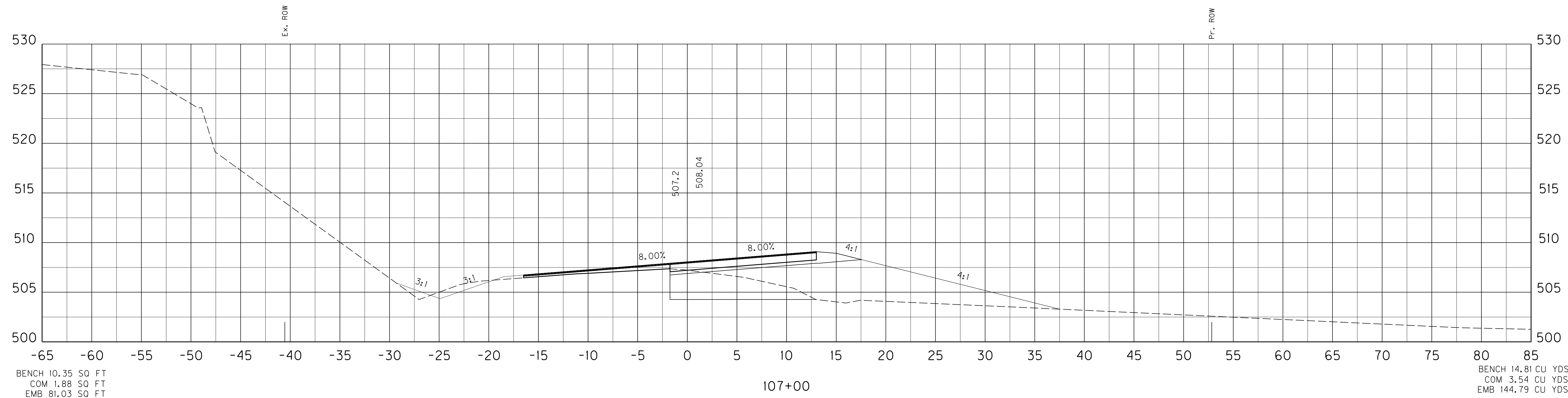
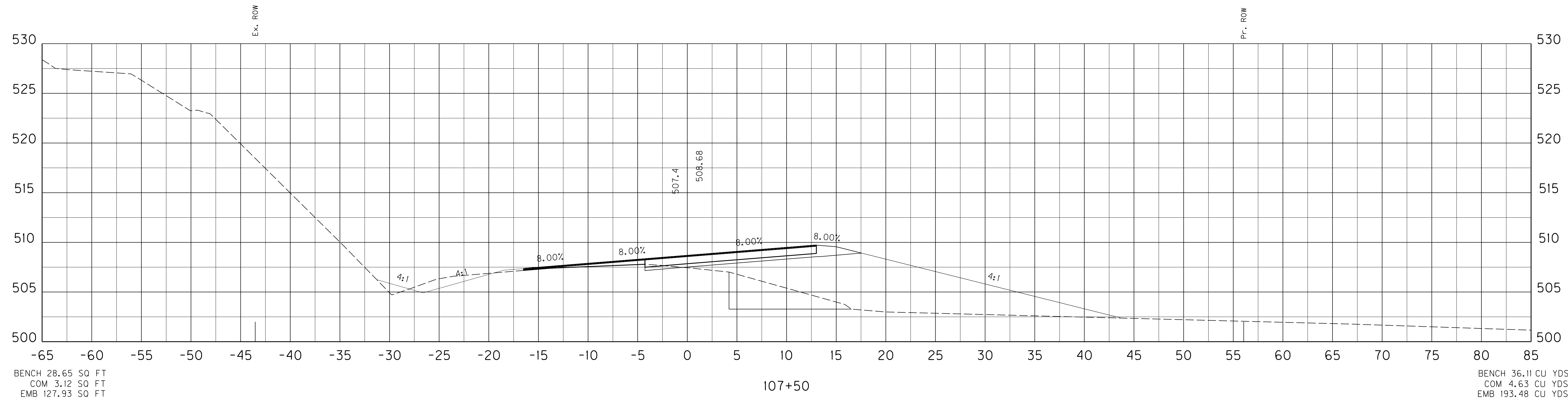
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

US 31 MAINLINE
STA. 106+00 TO STA. 106+50

SHEET TOTALS: BENCH 50.92 CU YDS
COM 8.17 CU YDS
EMB 338.27 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X39

BEGIN FULL WIDTH CONSTRUCTION
STA. 107+90



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

US 31 MAINLINE
STA. 107+00 TO STA. 107+50

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

E-SHEET NAME: X03900XS

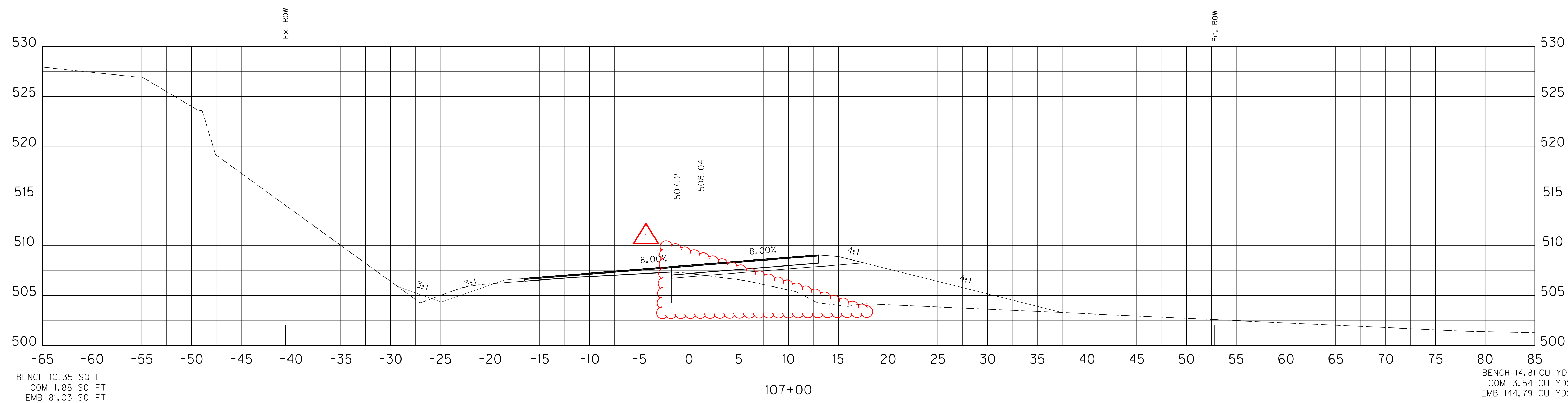
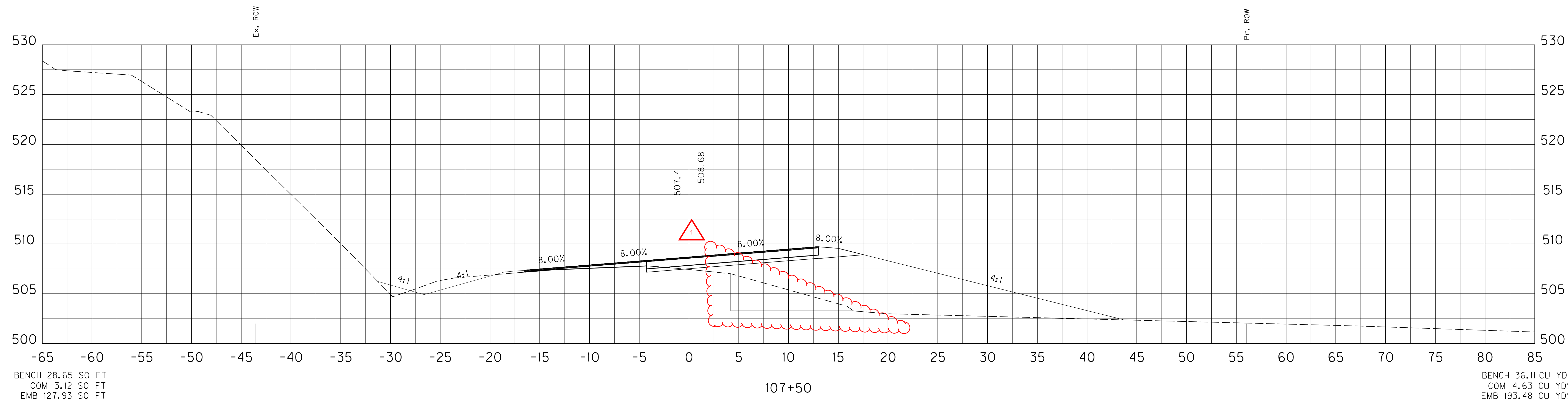
MicroStation v8.11.7.443

SHEET TOTALS: BENCH 50.92 CU YDS
COM 8.17 CU YDS
EMB 338.27 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X39

 REVISED 11-01-2012

BEGIN FULL WIDTH CONSTRUCTION
STA. 107+90



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

US 31 MAINLINE
STA. 107+00 TO STA. 107+50

MicroStation v8.11.7.443
E-SHEET NAME: X03900XS
USER: ben.hornback
DATE PLOTTED: October 16, 2012
FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN

SHEET TOTALS: BENCH 122.70 CU YDS
 COM 96.21 CU YDS
 EMB 654.14 CU YDS

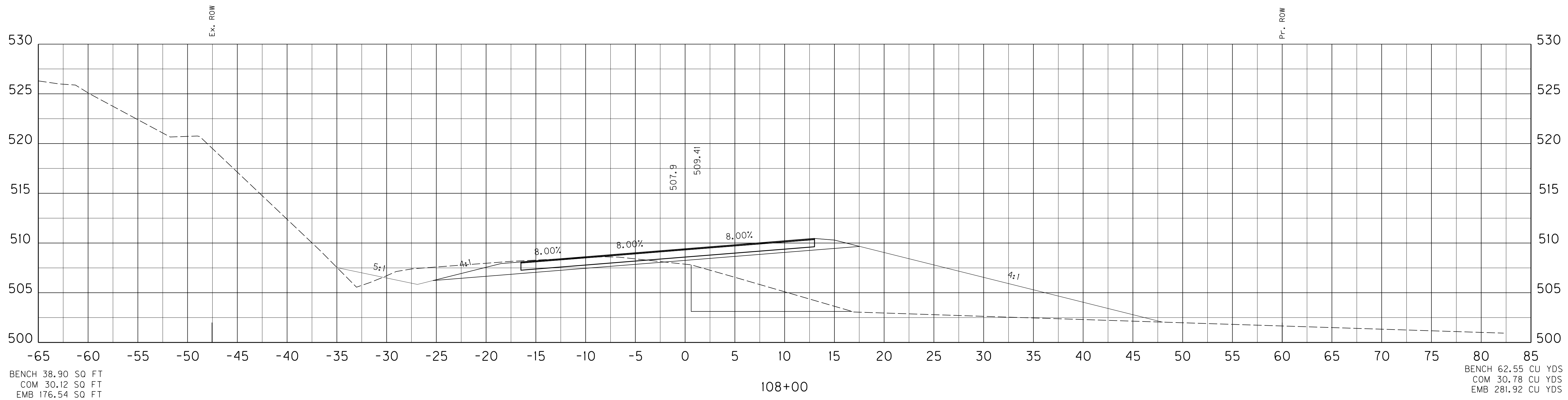
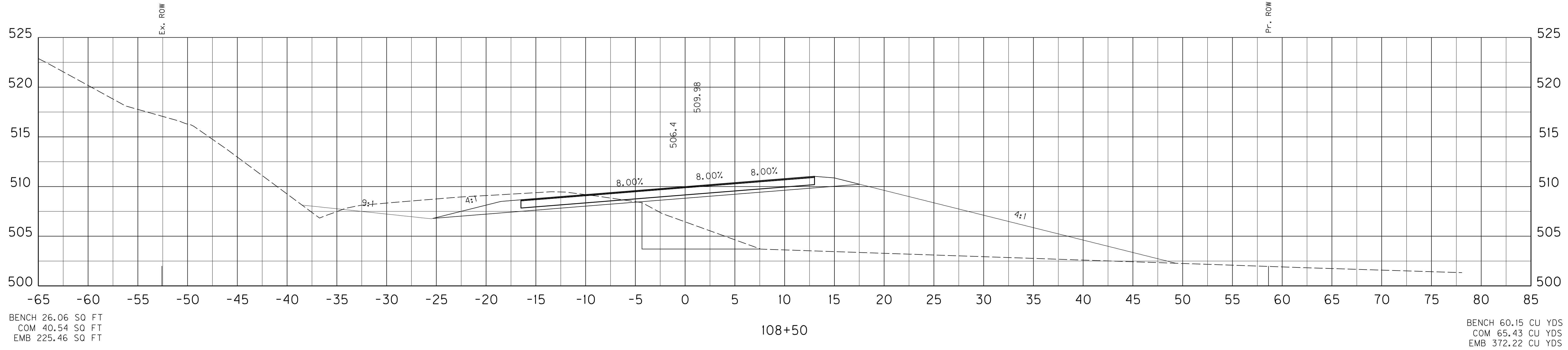
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X40

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X04000XS

MicroStation v8.11.7.443



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

US 31 MAINLINE
 STA. 108+00 TO STA. 108+50

SHEET TOTALS: BENCH 122.70 CU YDS
 COM 96.21 CU YDS
 EMB 654.14 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X40

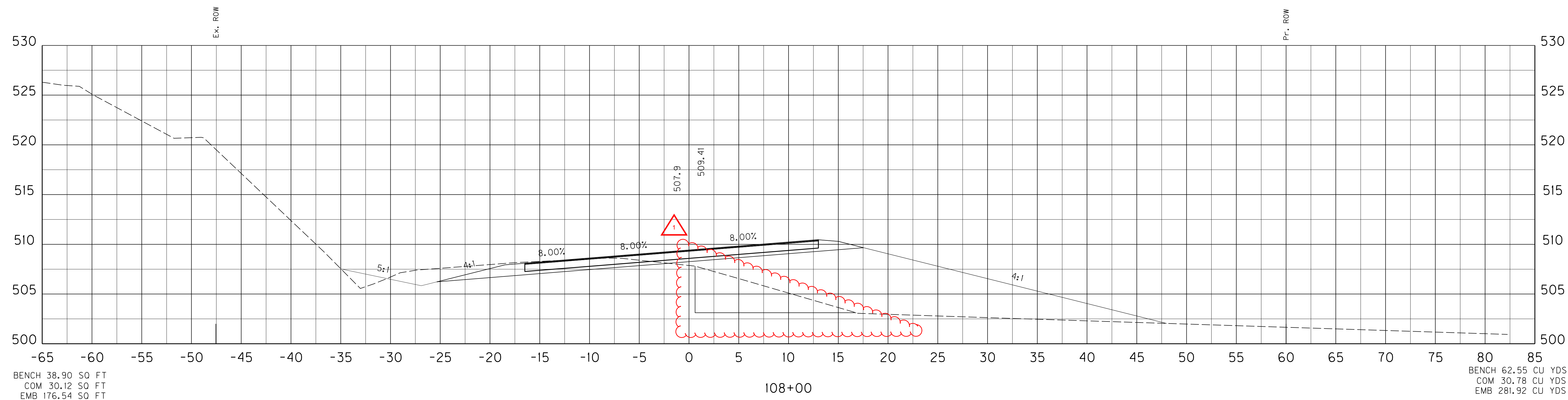
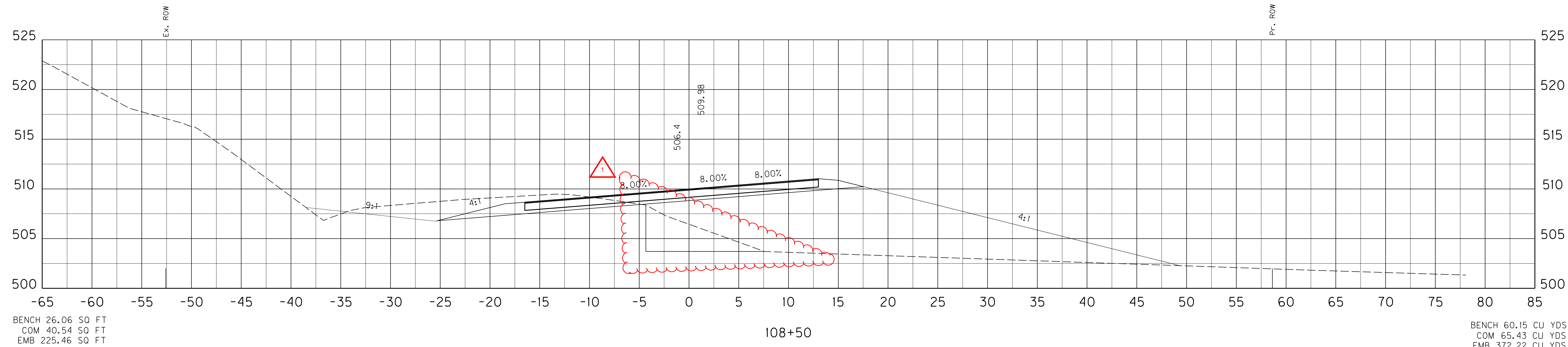
 REVISED 11-01-2012

FILE NAME: G:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X04000XS

MicroStation v8.11.7.443



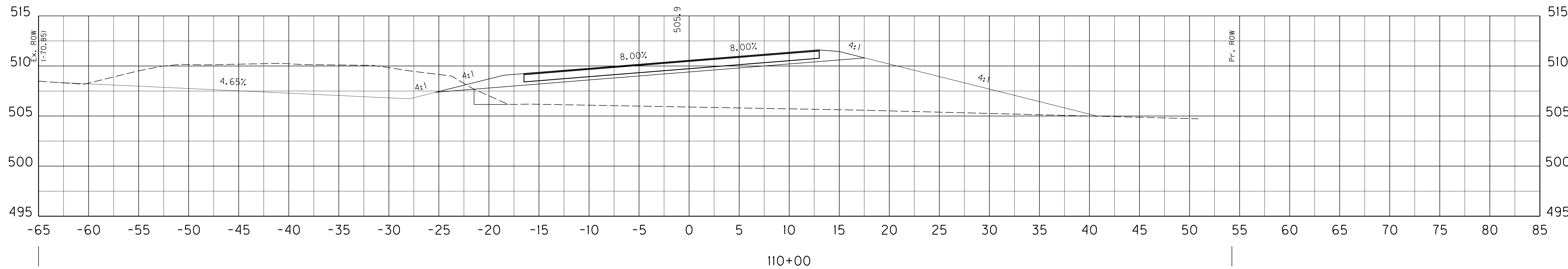
SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

US 31 MAINLINE
 STA. 108+00 TO STA. 108+50

SHEET TOTALS: BENCH 87.98 CU YDS
COM 431.32 CU YDS
EMB 1378.40 CU YDS

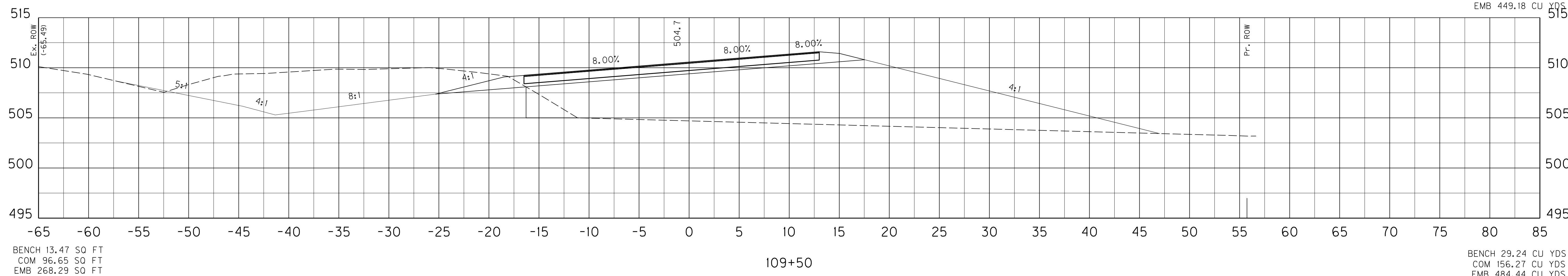
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X41

END BENCHING
STA. 110+40



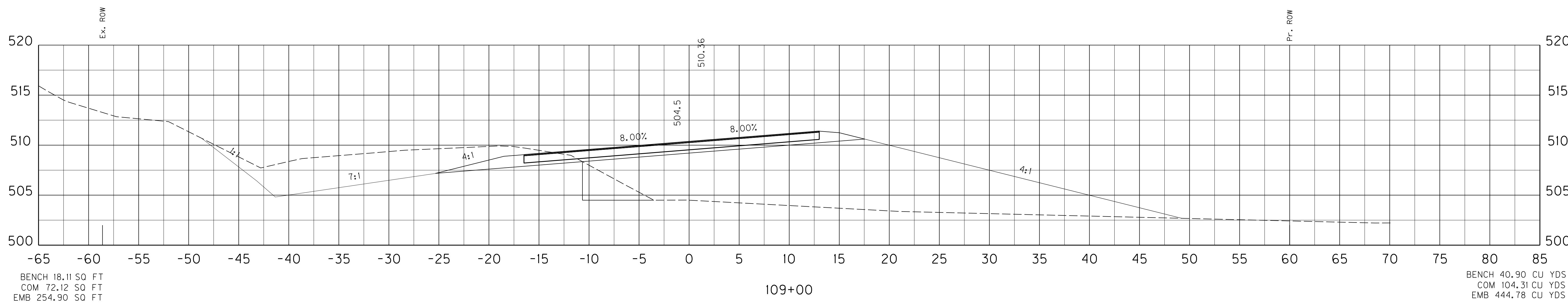
BENCH 5.80 SO FT
COM 87.75 SO FT
EMB 216.82 SO FT

BENCH 17.84 CU YDS
COM 170.74 CU YDS
EMB 449.18 CU YDS



BENCH 13.47 SO FT
COM 96.65 SO FT
EMB 268.29 SO FT

BENCH 29.24 CU YDS
COM 156.27 CU YDS
EMB 484.44 CU YDS



BENCH 18.11 SO FT
COM 72.12 SO FT
EMB 254.90 SO FT

BENCH 40.90 CU YDS
COM 104.31 CU YDS
EMB 444.78 CU YDS

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

US 31 MAINLINE
STA. 109+00 TO STA. 110+00

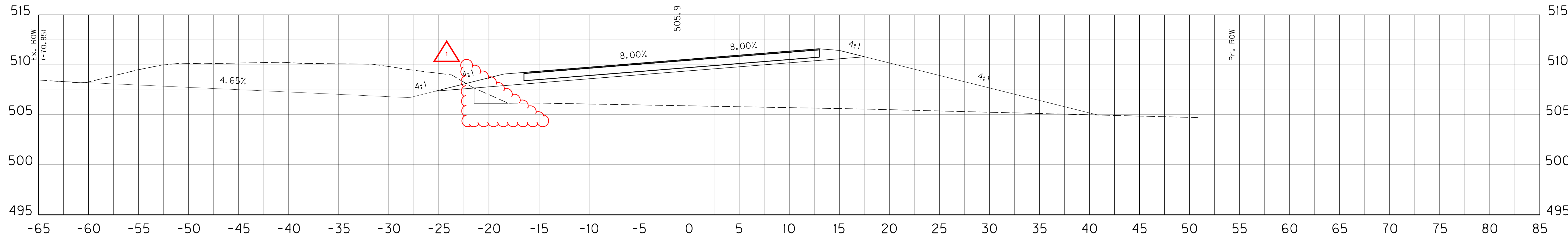
FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04100XS
 MicroStation v8.11.7.443

SHEET TOTALS: BENCH 87.98 CU YDS
COM 431.32 CU YDS
EMB 1378.40 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X41

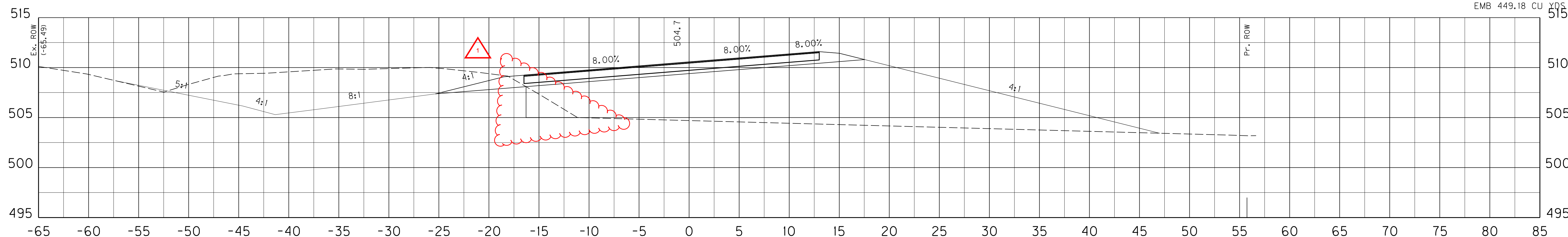
REVISOR'S MARK:  REVISED 11-01-2012

END BENCHING
STA. 110+40



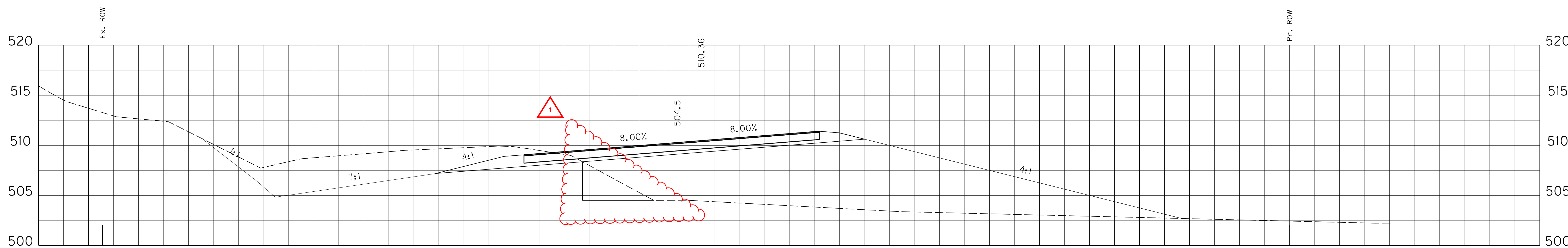
BENCH 5.80 SO FT
COM 87.75 SO FT
EMB 216.82 SO FT

BENCH 17.84 CU YDS
COM 170.74 CU YDS
EMB 449.18 CU YDS



BENCH 13.47 SO FT
COM 96.65 SO FT
EMB 268.29 SO FT

BENCH 29.24 CU YDS
COM 156.27 CU YDS
EMB 484.44 CU YDS



BENCH 18.11 SO FT
COM 72.12 SO FT
EMB 254.90 SO FT

BENCH 40.90 CU YDS
COM 104.31 CU YDS
EMB 444.78 CU YDS

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

US 31 MAINLINE
STA. 109+00 TO STA. 110+00

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN

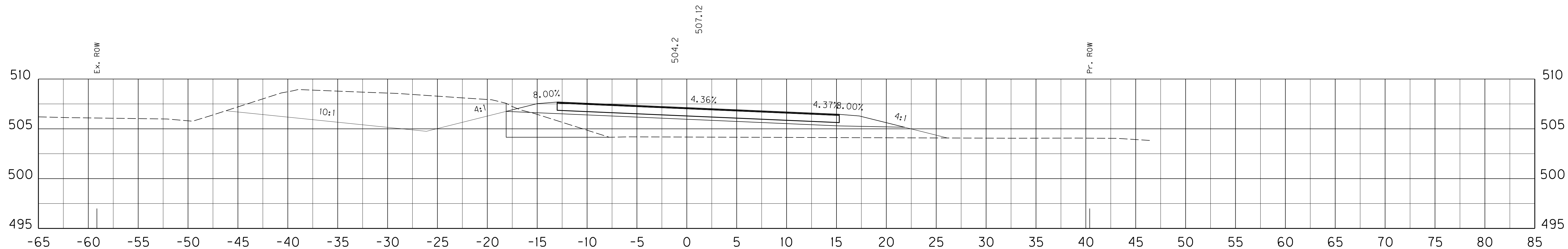
USER: ben.hornback
DATE PLOTTED: October 16, 2012

E-SHEET NAME: X04100XS

MicroStation v8.11.7.443

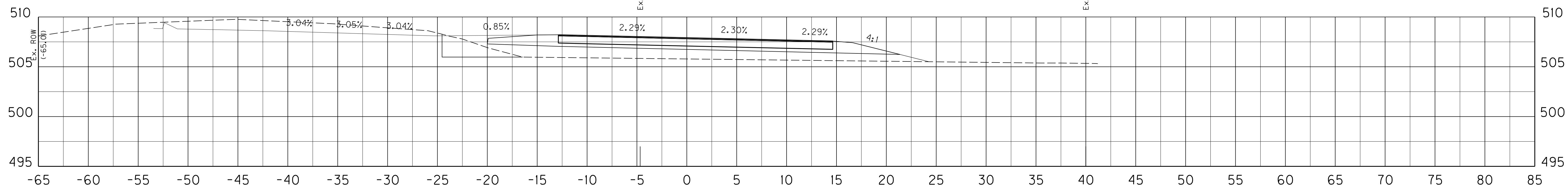
SHEET TOTALS: BENCH 31.95 CU YDS
COM 234.19 CU YDS
EMB 237.69 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X43



BENCH 16.08 SQ FT
COM 72.23 SQ FT
EMB 55.27 SQ FT

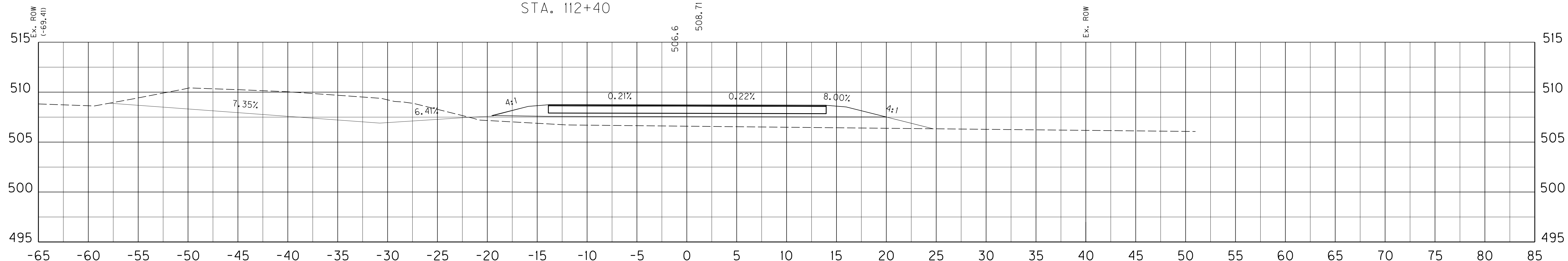
BENCH 23.42 CU YDS
COM 66.88 CU YDS
EMB 91.92 CU YDS



BENCH 9.21 SQ FT
COM 0.00 SQ FT
EMB 44.00 SQ FT

BENCH 8.53 CU YDS
COM 56.03 CU YDS
EMB 80.71 CU YDS

BEGIN BENCHING
STA. 112+40



BENCH 0.00 SQ FT
COM 60.51 SQ FT
EMB 43.17 SQ FT

BENCH 0.00 CU YDS
COM 111.28 CU YDS
EMB 65.06 CU YDS

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

US 31 MAINLINE
STA. 112+00 TO STA. 113+00

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

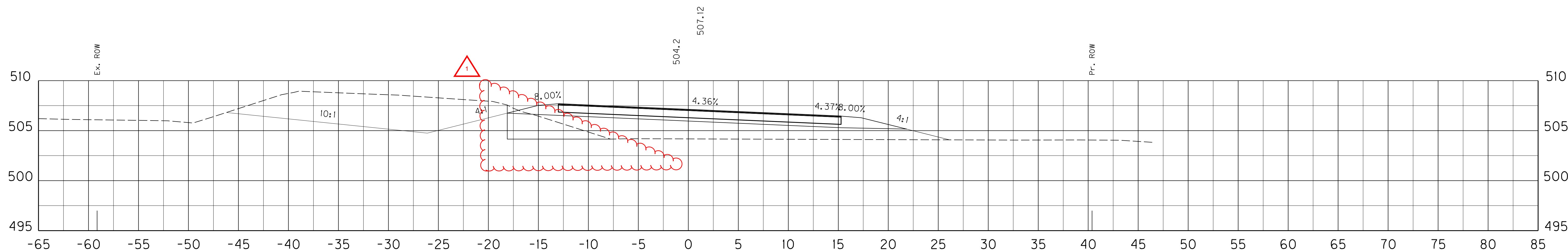
E-SHEET NAME: X04300XS

MicroStation v8.11.7.443

SHEET TOTALS: BENCH 31.95 CU YDS
COM 234.19 CU YDS
EMB 237.69 CU YDS

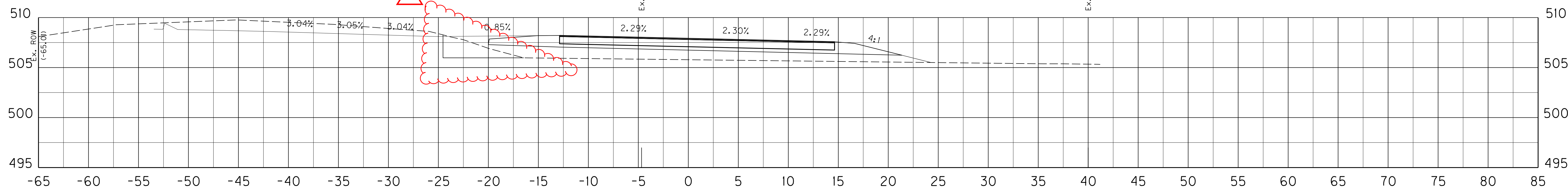
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X43

 REVISED 11-01-2012



BENCH 16.08 SO FT
COM 72.23 SO FT
EMB 55.27 SO FT

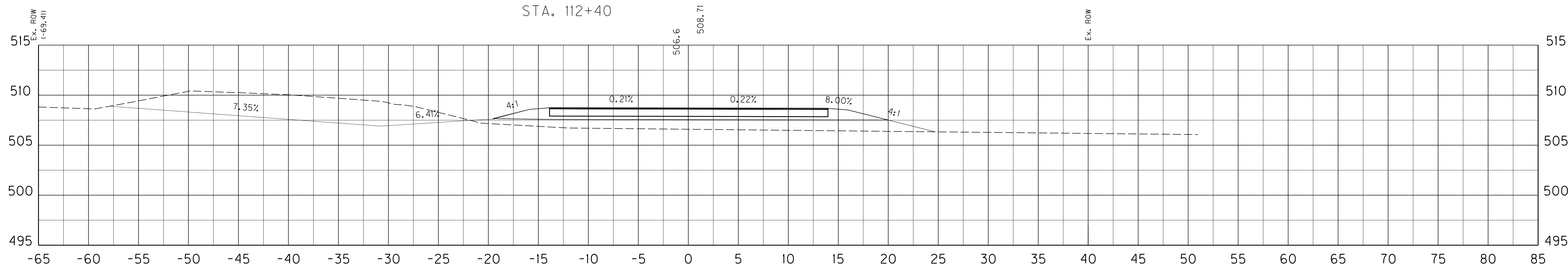
BENCH 23.42 CU YDS
COM 66.88 CU YDS
EMB 91.92 CU YDS



BENCH 9.21 SO FT
COM 0.00 SO FT
EMB 44.00 SO FT

BENCH 8.53 CU YDS
COM 56.03 CU YDS
EMB 80.71 CU YDS

BEGIN BENCHING
STA. 112+40



BENCH 0.00 SO FT
COM 60.51 SO FT
EMB 43.17 SO FT

BENCH 0.00 CU YDS
COM 111.28 CU YDS
EMB 65.06 CU YDS

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

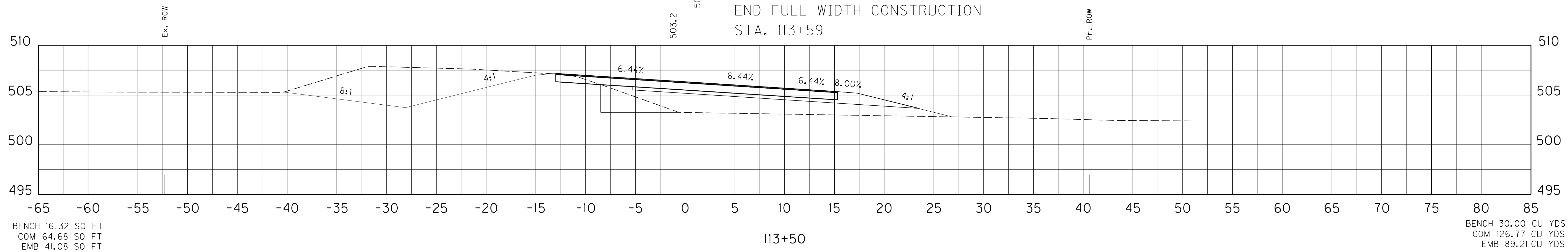
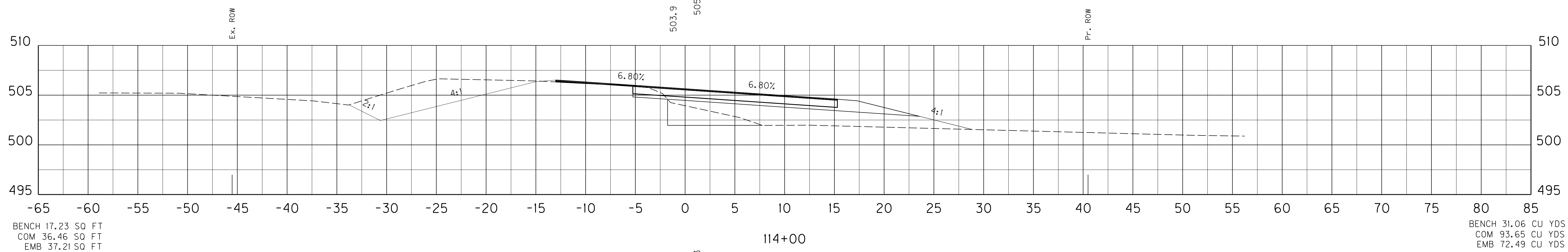
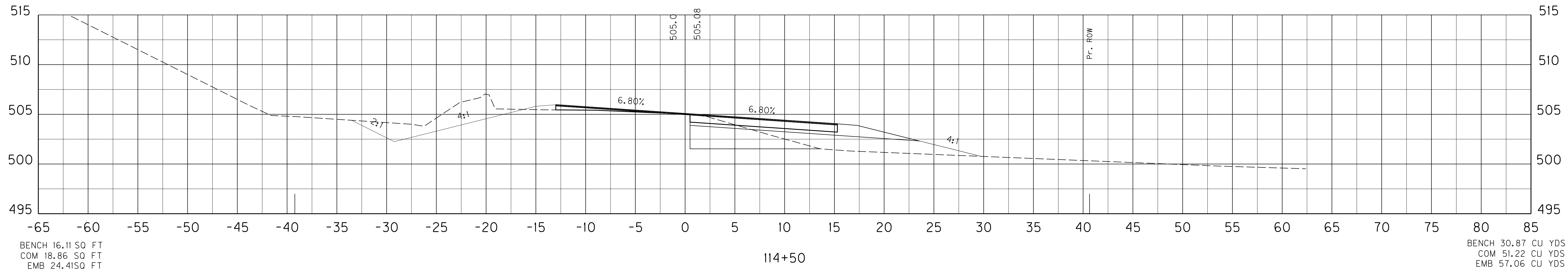
US 31 MAINLINE
STA. 112+00 TO STA. 113+00

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 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04300XS
 MicroStation v8.11.7.443

SHEET TOTALS: BENCH 91.93 CU YDS
COM 271.64 CU YDS
EMB 218.76 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X44

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04400XS
 MicroStation v8.11.7.443



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

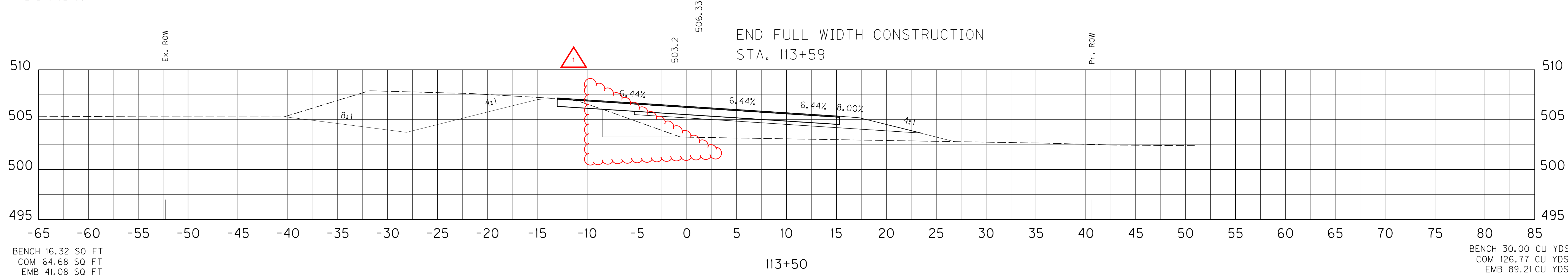
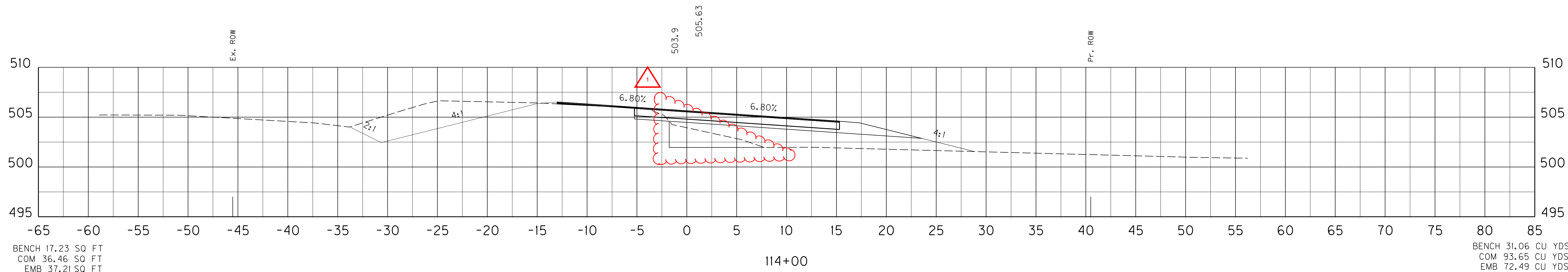
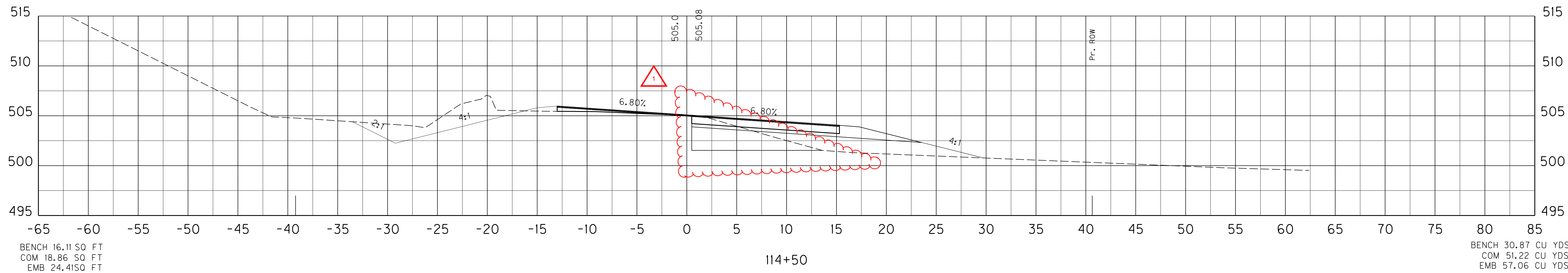
US 31 MAINLINE
STA. 113+50 TO STA. 114+50

SHEET TOTALS: BENCH 91.93 CU YDS
COM 271.64 CU YDS
EMB 218.76 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X44

 REVISED 11-01-2012

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN
USER: ben.hornback
DATE PLOTTED: October 16, 2012
E-SHEET NAME: X04400XS
MicroStation v8.11.7.443



END FULL WIDTH CONSTRUCTION
STA. 113+59

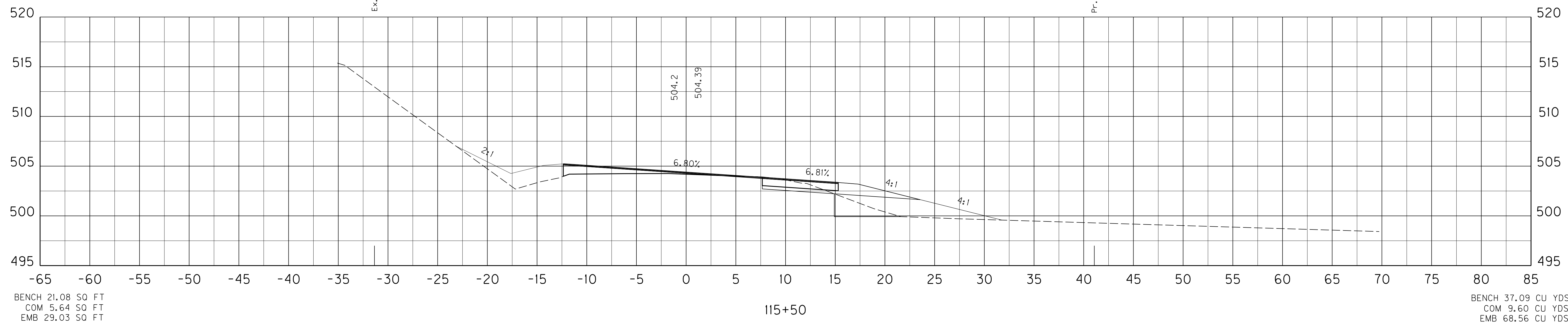
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

US 31 MAINLINE
STA. 113+50 TO STA. 114+50

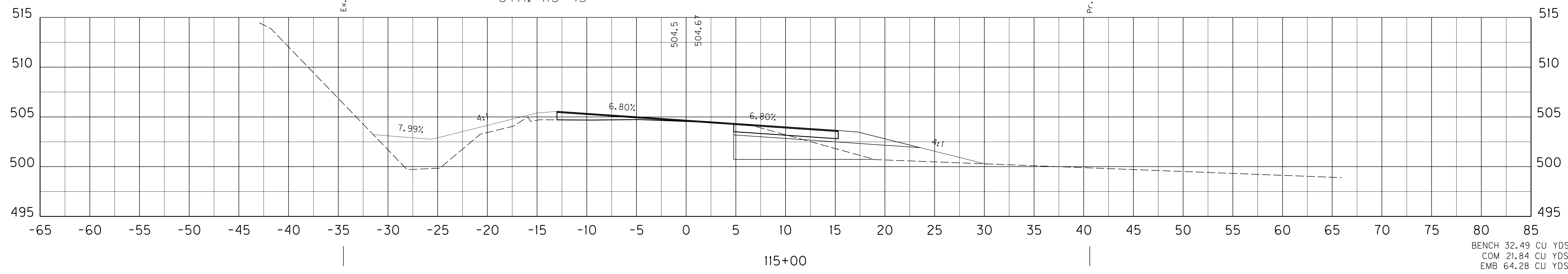
SHEET TOTALS: BENCH 69.58 CU YDS
 COM 31.44 CU YDS
 EMB 132.84 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X45

END LT PAVED SHOULDER TAPER
 STA. 115+70
 BEGIN LT LANE WIDTH TAPER
 STA. 115+70
 BEGIN LT EARTH SHOULDER TAPER
 STA. 115+70



BEGIN LT PAVED SHOULDER TAPER
 STA. 115+45



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

US 31 MAINLINE
 STA. 115+00 TO STA. 115+50

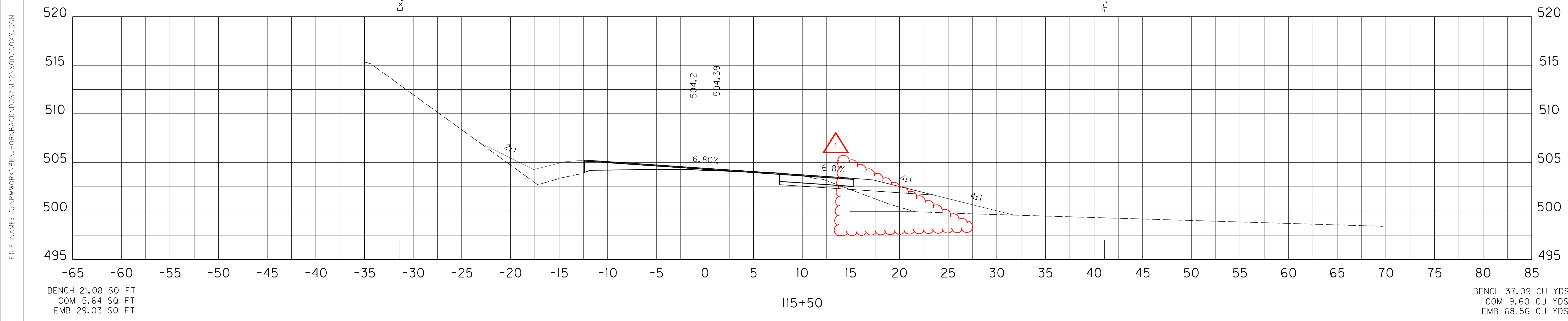
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 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04500X5
 MicroStation v8.11.7.443

SHEET TOTALS: BENCH 69.58 CU YDS
 COM 31.44 CU YDS
 EMB 132.84 CU YDS

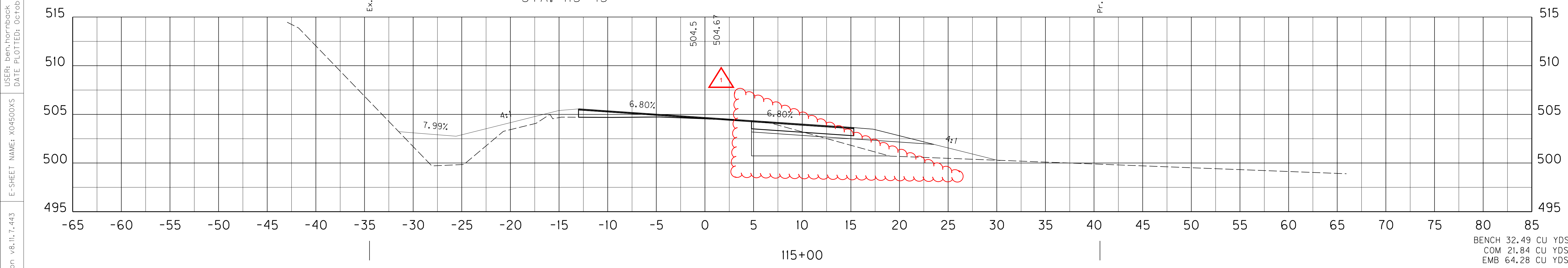
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X45

REVISION 1 REVISED 11-01-2012

END LT PAVED SHOULDER TAPER
 STA. 115+70
 BEGIN LT LANE WIDTH TAPER
 STA. 115+70
 BEGIN LT EARTH SHOULDER TAPER
 STA. 115+70



BEGIN LT PAVED SHOULDER TAPER
 STA. 115+45



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

US 31 MAINLINE
 STA. 115+00 TO STA. 115+50

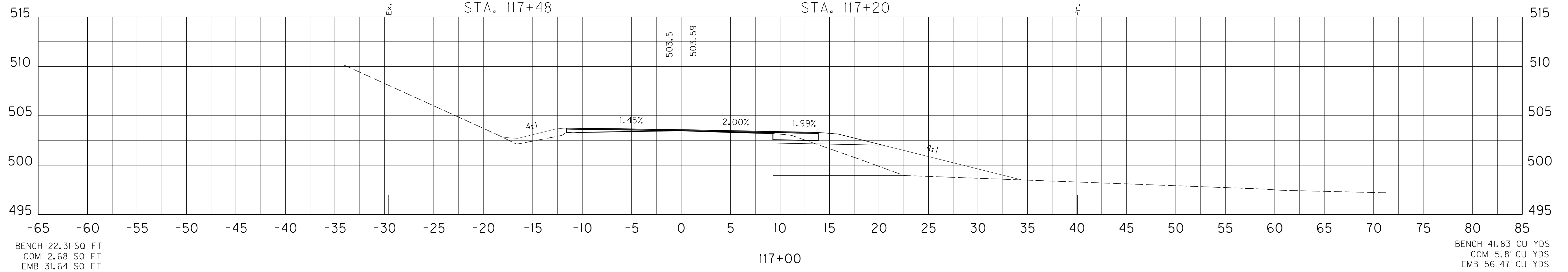
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 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04500X5
 MicroStation v8.11.7.443

END RT PAVED SHOULDER TAPER
 STA. 117+48
 BEGIN RT LANE WIDTH TAPER
 STA. 117+48

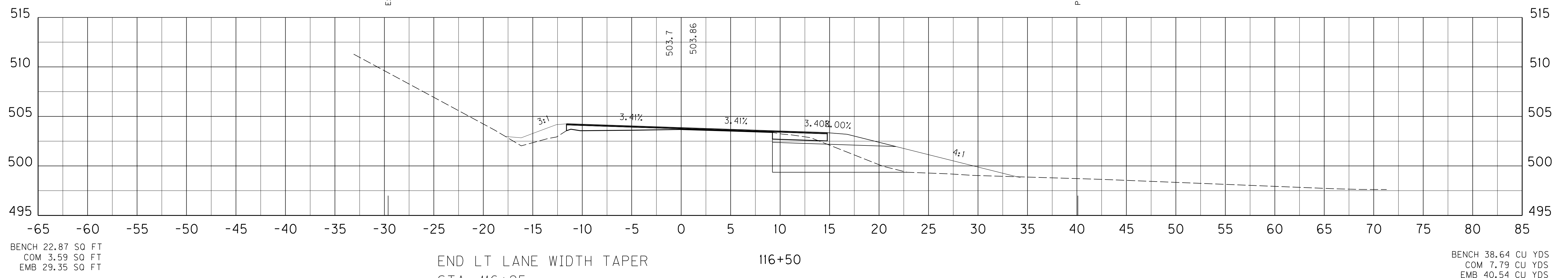
SHEET TOTALS: BENCH 117.45 CU YDS
 COM 23.29 CU YDS
 EMB 137.25 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X46

BEGIN RT EARTH SHOULDER TAPER
 STA. 117+20

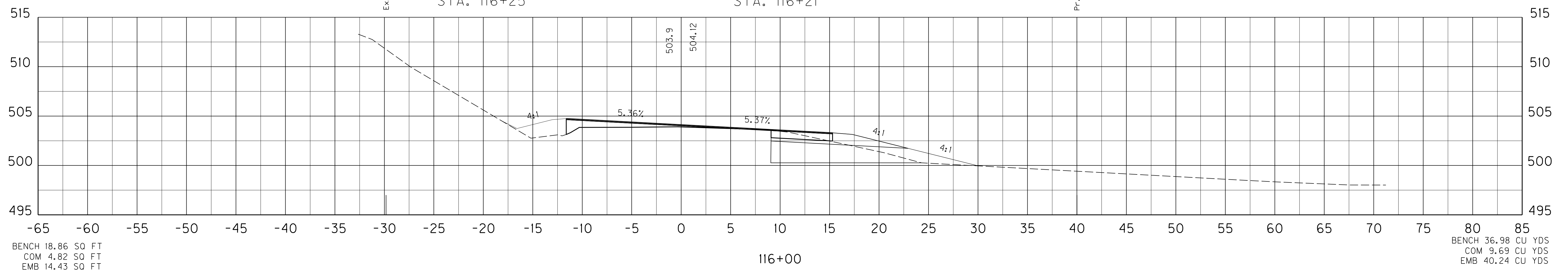


END LT LANE WIDTH TAPER
 STA. 116+25



END LT EARTH SHOULDER TAPER
 STA. 116+25

BEGIN RT PAVED SHOULDER TAPER
 STA. 116+21



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

US 31 MAINLINE
 STA. 116+00 TO STA. 117+00

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04600XS
 MicroStation v8.11.7.443

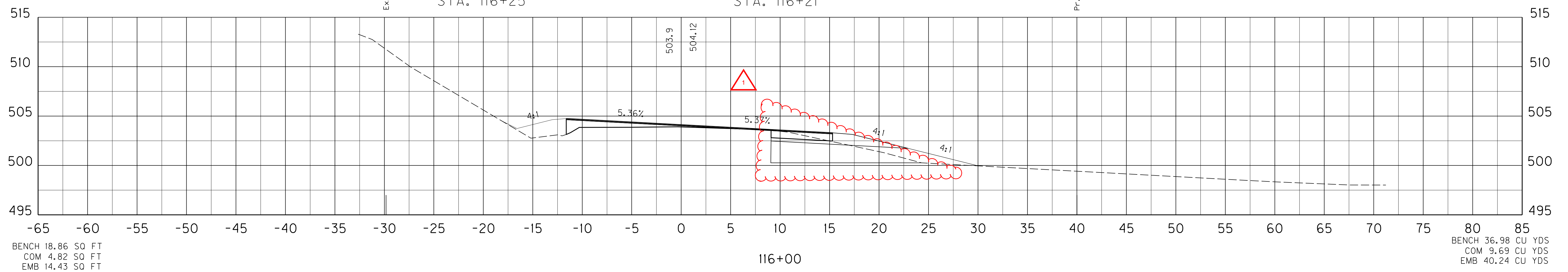
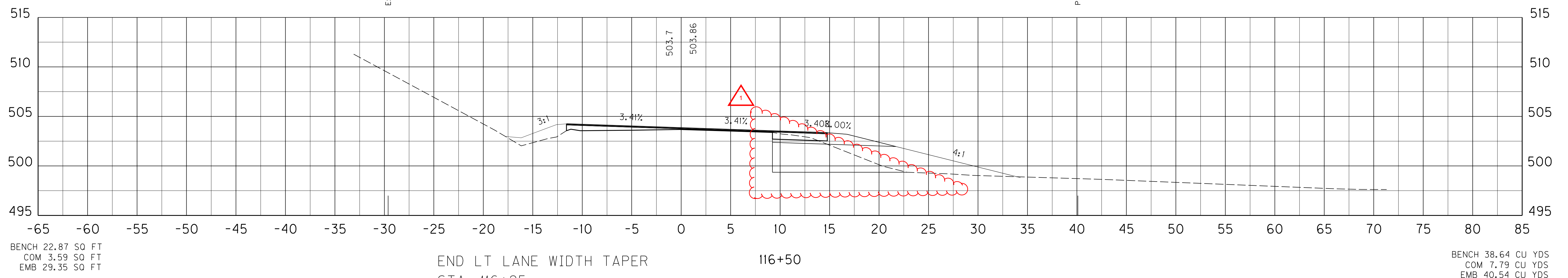
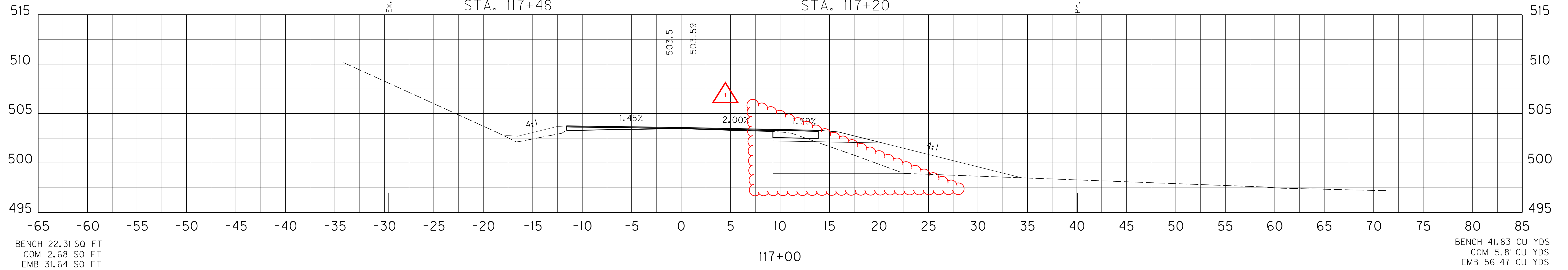
END RT PAVED SHOULDER TAPER
 STA. 117+48
 BEGIN RT LANE WIDTH TAPER
 STA. 117+48

BEGIN RT EARTH SHOULDER TAPER
 STA. 117+20

SHEET TOTALS: BENCH 117.45 CU YDS
 COM 23.29 CU YDS
 EMB 137.25 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X46

REVISION 11-01-2012



FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000X.DGN
 USER: ben.hornback
 DATE PLOTTED: October 16, 2012
 E-SHEET NAME: X04600X
 MicroStation v8.11.7.443

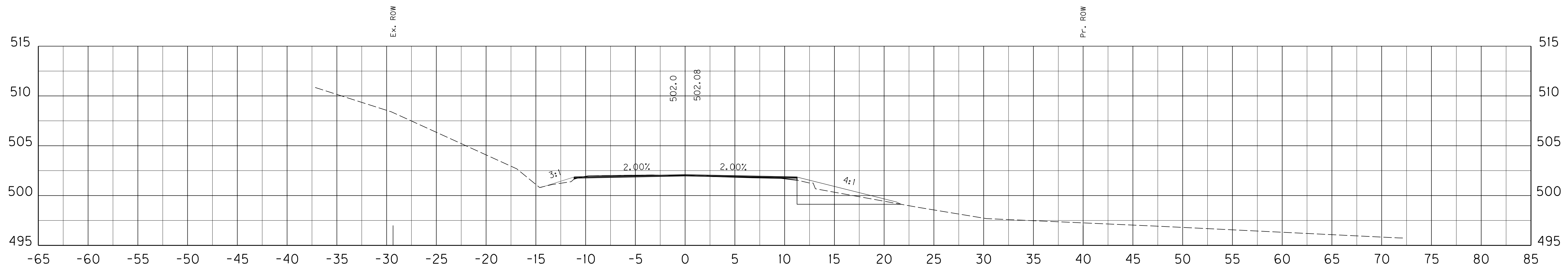
SCALE: 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

US 31 MAINLINE
 STA. 116+00 TO STA. 117+00

SHEET TOTALS: BENCH 76.23 CU YDS
COM 18.01 CU YDS
EMB 79.78 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X47

END BENCHING
STA. 118+75



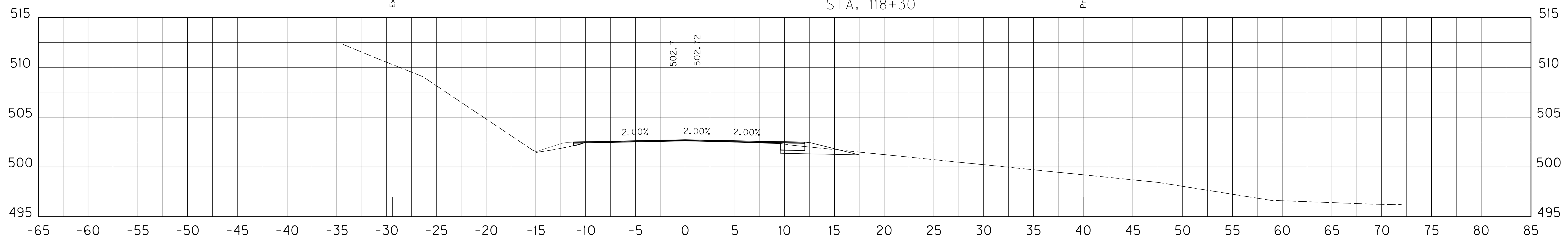
BENCH 10.27 SQ FT
COM 0.52 SQ FT
EMB 4.11 SQ FT

END PARTIAL WIDTH CONSTRUCTION
STA. 118+30

118+50 END RT EARTH SHOULDER TAPER
STA. 118+30
END RT LANE WIDTH TAPER
STA. 118+30

BEGIN BENCHING
STA. 118+40

BENCH 9.51 CU YDS
COM 4.68 CU YDS
EMB 5.00 CU YDS

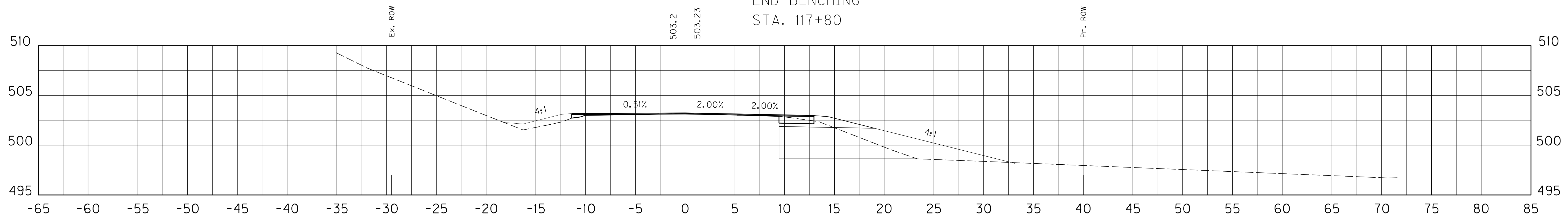


BENCH 0.00 SQ FT
COM 4.53 SQ FT
EMB 1.29 SQ FT

118+00

END BENCHING
STA. 117+80

BENCH 23.03 CU YDS
COM 7.52 CU YDS
EMB 23.34 CU YDS



BENCH 24.87 SQ FT
COM 3.59 SQ FT
EMB 23.92 SQ FT

117+50

BENCH 43.69 CU YDS
COM 5.81 CU YDS
EMB 51.44 CU YDS

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

US 31 MAINLINE
STA. 117+50 TO STA. 118+50

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

E-SHEET NAME: X04700XS

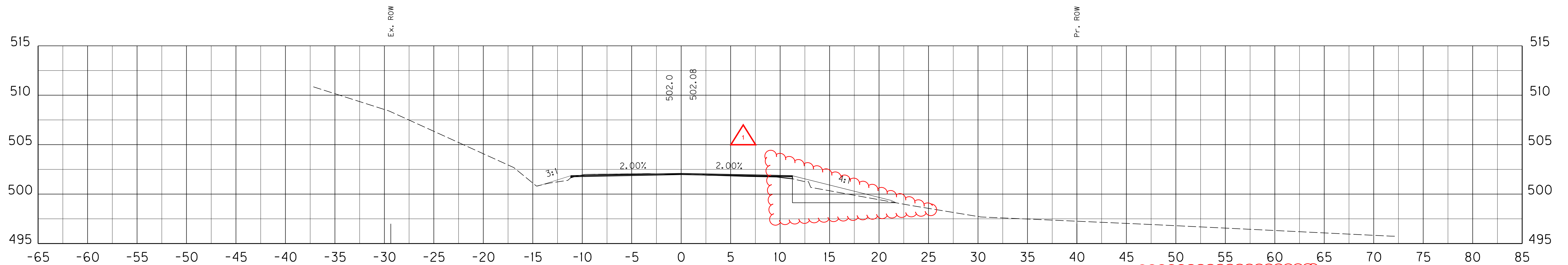
MicroStation v8.11.7.443

SHEET TOTALS: BENCH 76.23 CU YDS
COM 18.01 CU YDS
EMB 79.78 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X47

END BENCHING
STA. 118+75

REVIS 11-01-2012



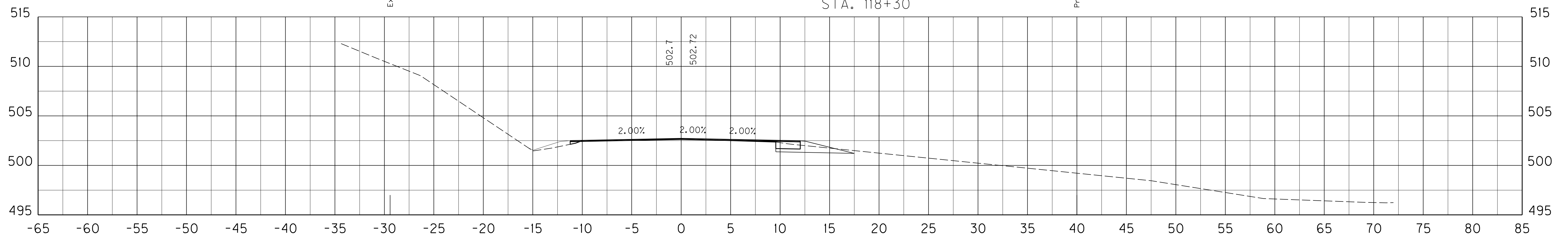
BENCH 10.27 SO FT
COM 0.52 SO FT
EMB 4.11 SO FT

END PARTIAL WIDTH CONSTRUCTION
STA. 118+30

118+50 END RT EARTH SHOULDER TAPER
STA. 118+30
END RT LANE WIDTH TAPER
STA. 118+30

BEGIN BENCHING
STA. 118+40

BENCH 9.51 CU YDS
COM 4.68 CU YDS
EMB 5.00 CU YDS

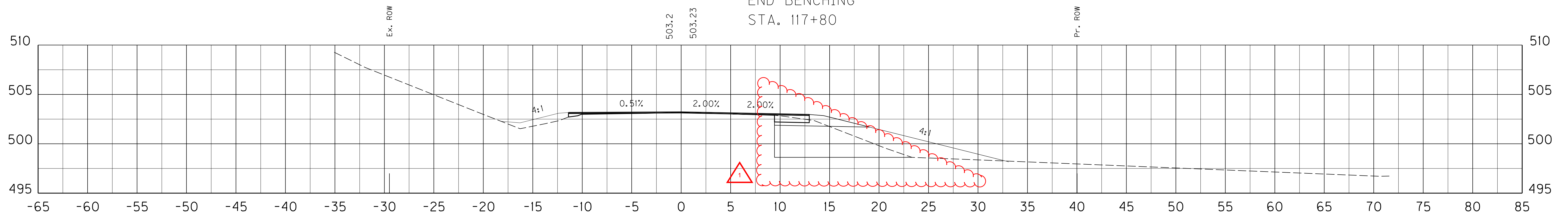


BENCH 0.00 SO FT
COM 4.53 SO FT
EMB 1.29 SO FT

118+00

END BENCHING
STA. 117+80

BENCH 23.03 CU YDS
COM 7.52 CU YDS
EMB 23.34 CU YDS



BENCH 24.87 SO FT
COM 3.59 SO FT
EMB 23.92 SO FT

117+50

BENCH 43.69 CU YDS
COM 5.81 CU YDS
EMB 51.44 CU YDS

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

US 31 MAINLINE
STA. 117+50 TO STA. 118+50

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X00000XS.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

E-SHEET NAME: X04700XS

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X54

SHEET TOTALS: BENCH 1.77 CU YDS
COM 0.00 CU YDS
EMB 0.64 CU YDS

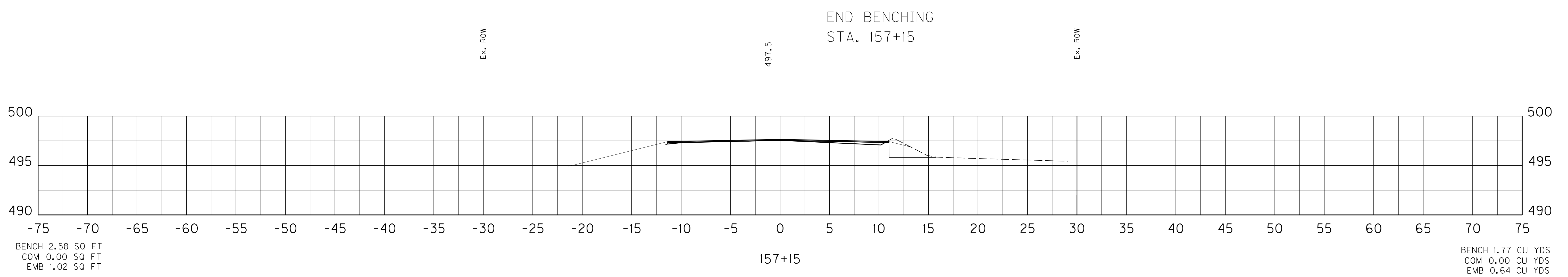
PROJECT TOTALS: BENCH 3020.71 CU YDS
COM 2191.79 CU YDS
EMB 10554.76 CU YDS
STRUCTURE 4110.12 CU YDS

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000X.DGN

USER: ben.hornback
DATE PLOTTED: October 16, 2012

E-SHEET NAME: X05400XS

MicroStation v8.11.7.443



BENCH 1.77 CU YDS
COM 0.00 CU YDS
EMB 0.64 CU YDS

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

US 31 MAINLINE
STA. 157+15 TO STA. 157+15

SHEET TOTALS: BENCH 1.77 CU YDS
 COM 0.00 CU YDS
 EMB 0.64 CU YDS

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-8504	X54



PROJECT TOTALS: BENCH 3020.71 CU YDS
 COM 2191.79 CU YDS
 EMB 10554.76 CU YDS
 STRUCTURE 4110.12 CU YDS

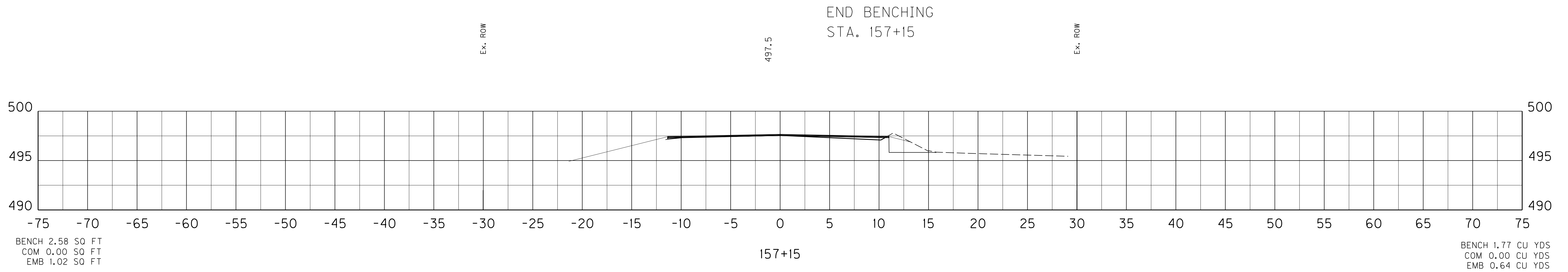
REVISED 11-01-2012

FILE NAME: C:\PWORK\BEN_HORNBACK\00675172\X000000XS.DGN

USER: ben.hornback
 DATE PLOTTED: October 16, 2012

E-SHEET NAME: X05400XS

MicroStation v8.11.7.443



BENCH 2.58 SQ FT
 COM 0.00 SQ FT
 EMB 1.02 SQ FT

BENCH 1.77 CU YDS
 COM 0.00 CU YDS
 EMB 0.64 CU YDS

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

US 31 MAINLINE
 STA.157+15 TO STA.157+15

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PART II	SPECIFICATIONS AND STANDARD DRAWINGS
	<ul style="list-style-type: none">• SPECIFICATIONS REFERENCE• SUPPLEMENTAL SPECIFICATION
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
	<ul style="list-style-type: none">• LABOR AND WAGE REQUIREMENTS• EXECUTIVE BRANCH CODE OF ETHICS• KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY 1,2,3,4 / STATE (OVER 250,000)• PROJECT WAGE RATES LOCALITY 3 / FEDERAL & STATE
PART IV	INSURANCE
PART V	BID ITEMS

Right-of-Way Certification Form

Revised 2/22/11

Federal Funded

Original

State Funded

Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: 15OCT2012

Project Name: Curve Repair & Rehab Work

Letting Date: 19OCT2012

Project #: 1381 JL03 C121 83401 01R

County: Nelson/LaRue

Item #: 04-8504.00

Federal #: N/A

Description of Project: Conduct Curve Repair and Rehab Work to pavement on US 31E between New Haven and Hodgenville (08CCN)

Projects that require **NO** new or additional right-of-way acquisitions and/or relocations

- The proposed transportation improvement will be built within the existing rights-of-way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

Projects that require new or additional right-of-way acquisitions and/or relocations

- Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)

- Condition 1.** All necessary rights-of-way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Fair market value has been paid or deposited with the court.

- Condition 2.** Although all necessary rights-of-way have not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Trial or appeal of some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

Note 1: The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of all Federal-Aid construction contracts. Award must not to be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.

Right-of-Way Certification Form

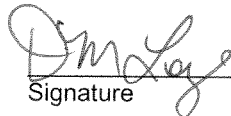
Revised 2/22/11

Condition 3. The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

Note 2: The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Note: Parcel # 12 has not been signed though all parties are in agreement. We are still waiting on a check being processed for a special use permit required by the National Park Service. This check has been processed through Frankfort and is expected within a few days.

Approved: DM Loy
Printed Name


Signature

Right-of-Way Supervisor

Approved: _____
Printed Name

Signature

KYTC, Director of ROW & Utilities

Approved: _____
Printed Name

Signature

FHWA, ROW Officer (when applicable)

Right-of-Way Certification Form

Revised 2/22/11

Date: 15OCT2012

Project Name: Curve Repair & Rehab Work

Project #: 1381 JL03 C121 83401 01R

County: Nelson/LaRue

Item #: 04-8504.00

Federal #: N/A

Letting Date: 19OCT2012

This project has 9 total number of parcels to be acquired, and 0 total number of individuals or families to be relocated, as well as 0 total number of businesses to be relocated.

8 Parcels where acquired by a signed fee simple deed and fair market value has been paid

0 Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court

1 Parcels have not been acquired at this time (*explain below for each parcel*)

0 Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court (*explain below for each parcel*)

0 Relocatees have not been relocated from parcels _____, _____, _____, _____, _____, _____, and _____ (*explain below for each parcel*)

Parcel #	Name/Station	Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value	Proposed date of payment or of relocation
9		(See note Page 2 of this certification)	

There are 0 billboards and/or 0 cemeteries involved on this project.

There are 0 water or monitoring wells on parcels _____, _____, _____, _____, and _____. All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006
Last Revised: February 22, 2011

121058

PROPOSAL BID ITEMS

Report Date 11/5/12

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00001		DGA BASE	3,027.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	27.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	3.04	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	1,371.00	TON		\$	
0050	00221		CL2 ASPH BASE 0.75D PG64-22	2,710.00	TON		\$	
0060	00301		CL2 ASPH SURF 0.38D PG64-22	2,383.00	TON		\$	
0070	00440		ENTRANCE PIPE-15 IN	101.00	LF		\$	
0080	00464		CULVERT PIPE-24 IN	1,297.00	LF		\$	
0090	00491		CULVERT PIPE-18 IN EQUIV	47.00	LF		\$	
0100	00496		CULVERT PIPE-36 IN EQUIV	160.00	LF		\$	
0110	01434		SLOPED BOX OUTLET TYPE 1-24 IN	21.00	EACH		\$	
0120	01451		S & F BOX INLET-OUTLET-24 IN	10.00	EACH		\$	
0130	01514		DROP BOX INLET TYPE 5E	1.00	EACH		\$	
0140	01727		SAFETY BOX INLET-24 IN SDB-1	16.00	EACH		\$	
0150	01729		SAFETY BOX INLET-24 IN DBL SDB-5	9.00	EACH		\$	
0160	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE(REVISED: 11-5-12)	25.00	EACH		\$	
0170	02230		EMBANKMENT IN PLACE(REVISED: 11-5-12)	13,574.00	CUYD		\$	
0180	02231		STRUCTURE GRANULAR BACKFILL	1,551.00	CUYD		\$	
0190	02237		DITCHING(REVISED: 11-5-12)	308.00	LF		\$	
0200	02242		WATER	59.00	MGAL		\$	
0210	02351		GUARDRAIL-STEEL W BEAM-S FACE (ADDED: 11-5-12)	1,525.00	LF		\$	
0220	02355		GUARDRAIL-STEEL W BEAM-S FACE A	100.00	LF		\$	
0230	02360		GUARDRAIL TERMINAL SECTION NO 1	1.00	EACH		\$	
0240	02367		GUARDRAIL END TREATMENT TYPE 1 (REVISED: 11-5-12)	7.00	EACH		\$	
0250	02373		GUARDRAIL END TREATMENT TYPE 3	2.00	EACH		\$	
0260	02381		REMOVE GUARDRAIL(REVISED: 11-5-12)	375.00	LF		\$	
0270	02429		RIGHT-OF-WAY MONUMENT TYPE 1	73.00	EACH		\$	
0280	02432		WITNESS POST	12.00	EACH		\$	
0290	02483		CHANNEL LINING CLASS II(REVISED: 11-5-12)	108.00	TON		\$	
0300	02484		CHANNEL LINING CLASS III	414.00	TON		\$	
0310	02545		CLEARING AND GRUBBING(5.33 ACRES)	1.00	LS		\$	
0320	02562		SIGNS	100.00	SQFT		\$	
0330	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	1,886.00	SQYD	\$2.00	\$	\$3,772.00
0340	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0350	02653		LANE CLOSURE	3.00	EACH		\$	
0360	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0370	02677		ASPHALT PAVE MILLING & TEXTURING	271.00	TON		\$	
0380	02690		SAFELoading	17.50	CUYD		\$	
0390	02726		STAKING	1.00	LS		\$	
0400	02731		REMOVE STRUCTURE	1.00	LS		\$	
0410	04933		TEMP SIGNAL 2 PHASE	2.00	EACH		\$	
0420	05950		EROSION CONTROL BLANKET(REVISED: 11-5-12)	7,295.00	SQYD		\$	
0430	05966		TOPDRESSING FERTILIZER	.14	TON		\$	

121058

PROPOSAL BID ITEMS

Report Date 11/5/12

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0440	05985		SEEDING AND PROTECTION	26,288.00	SQYD		\$	
0450	06510		PAVE STRIPING-TEMP PAINT-4 IN	14,000.00	LF		\$	
0460	06514		PAVE STRIPING-PERM PAINT-4 IN(ADDED: 11-5-12)	54,856.00	LF		\$	
0470	06568		PAVE MARKING-THERMO STOP BAR-24IN	66.00	LF		\$	
0480	06600		REMOVE PAVEMENT MARKER TYPE V (ADDED: 11-5-12)	344.00	EACH		\$	
0490	08001		STRUCTURE EXCAVATION-COMMON (REVISED: 11-5-12)	4,110.00	CUYD		\$	
0500	08002		STRUCTURE EXCAV-SOLID ROCK(REVISED: 11-5-12)	85.00	CUYD		\$	
0510	08018		RETAINING WALL	6,645.00	SQFT		\$	
0520	08100		CONCRETE-CLASS A(REVISED: 11-5-12)	22.40	CUYD		\$	
0530	08150		STEEL REINFORCEMENT(REVISED: 11-5-12)	1,638.00	LB		\$	
0540	08801		GUARDRAIL-STEEL W BEAM-S FACE BR	38.00	LF		\$	
0550	10020NS		FUEL ADJUSTMENT	10,437.00	DOLL	\$1.00	\$	\$10,437.00
0560	10030NS		ASPHALT ADJUSTMENT	15,500.00	DOLL	\$1.00	\$	\$15,500.00
0570	20060ES719		GUARDRAIL STEEL W BEAM-S FACE CR (ADDED: 11-5-12)	550.00	LF		\$	
0580	20092ES611		PRECAST CONCRETE BOX CULVERT	40.00	LF		\$	
0590	23131ER701		PIPELINE VIDEO INSPECTION	753.00	LF		\$	
0600	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL	1.00	LS		\$	

Section: 0002 - BRIDGE-CULVERT

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0610	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0620	08100		CONCRETE-CLASS A	105.00	CUYD		\$	
0630	08150		STEEL REINFORCEMENT	11,400.00	LB		\$	

Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0640	02569		DEMOBILIZATION	1.00	LS		\$	