Steven L. Beshear
Governor

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

Michael W. Hancock, P.E.
Secretary

December 5, 2014

CALL NO. 100
CONTRACT ID NO. 141078
ADDENDUM # 1

Subject: Letcher County, ADP 1191 (043)
Letting December 12, 2014

(1) Revised - Plan Sheets - S0001, X1, R2D, R2E, R2H, R3, R4, R5, R7, R7A, R9, R9A, R10, R11, R12, R13, R27, R28, X72, X73, X74, & X86
(2) Revised - Front Sheet
(3) Revised - Completion Date - Page 4 of 158
(4) Revised - Bid Items - Pages 154-158 of 158

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

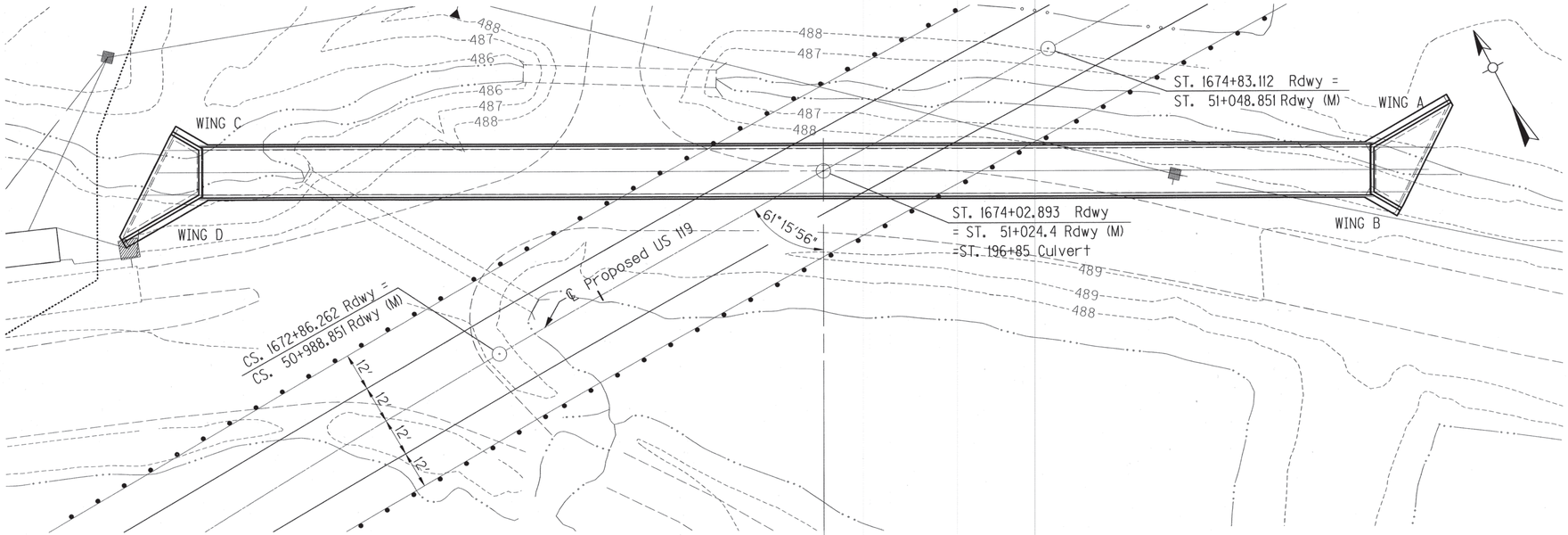
Plan revisions are available at http://www.lynnimaging.com/kytransportation/.

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

Sincerely,

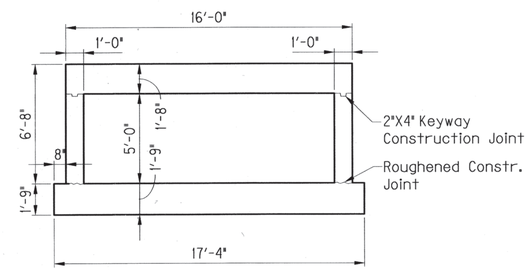
Diana Castle Radcliffe
Director
Division of Construction Procurement

DR:ks
Enclosures



LAYOUT

14'-0" x 5'-0" x 368'-5 1/8" R.C.B.C. UNYIELDING FOUNDATION 61°15'35" SKEW LEFT
-ROADWAY OVER-
24' PAVEMENT, 2-12' SHOULDERS
2:1 FILL SLOPES HS25 LOADING
SEE EMBANKMENT PLANS

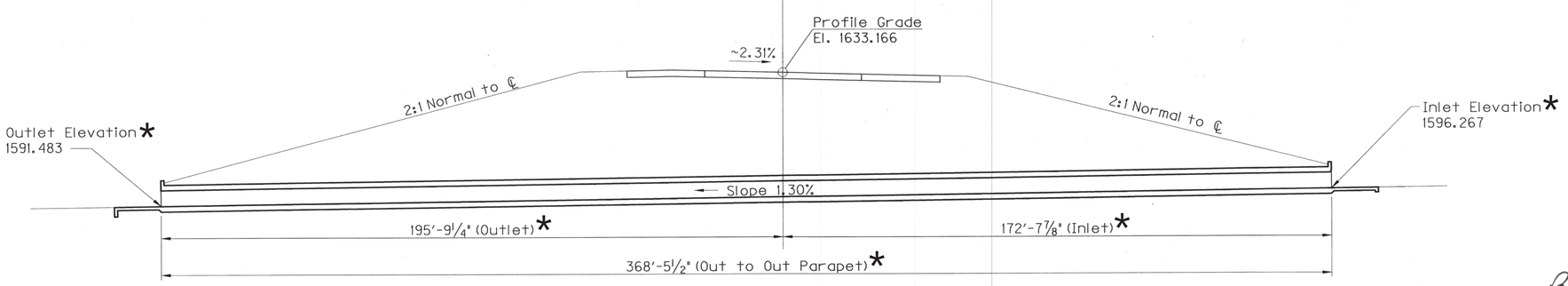


TYPICAL SECTION

SCALE: 1/4" = 1'-0"

Bid Code	ESTIMATE OF QUANTITIES		
24693ED	Box Culvert - 14 FT x 5 FT	429.46	LF
8003	Foundation Preparation	1	LS

BOX CULVERT 14 FT x 5 FT: The unit price for 14' x 5' culvert includes all labor and materials to construct the culvert paid for per Linear Foot. No direct payment will be made for Class "A" Concrete or Steel Reinforcement.



ELEVATION ALONG ℄ CULVERT

*CONTRARY TO STRUCTURE PLANS, SEE SHEET R55 FOR THE TOTAL STRUCTURE LENGTH, LENGTHS LEFT AND RIGHT OF CENTERLINE, AND INLET AND OUTLET ELEVATIONS.

SPECIFICATIONS:
The Kentucky Department Of Transportation Standard Specifications for Road and Bridge Construction, Current Edition, with current supplementals shall apply to this Project

DESIGN LOAD:
Culvert slabs are designed for flexure in accordance with the AASHTO specifications, Current Edition with current interim's. The effective weight of Fill Material is 120 pounds per cubic foot and the Live Load is HS 25.

DESIGN METHOD:
All Reinforced Concrete members are designed by the Load Factor Method as specified in the Current AASHTO Specifications.

DESIGN STRESSES:
For Reinforcement Fy=60,000 psi; For Class "A" concrete F'c=4,500 psi.

CONCRETE:
Class "A" Concrete shall be used throughout.

REINFORCEMENT:
Dimensions shown from the face of concrete to Bars are clear distances unless otherwise shown. Spacing of Bars is from Center to Center of Bars.

BEVELED EDGES:
All exposed edges shall be beveled 7/8" unless otherwise shown.

CONSTRUCTION JOINTS:
Vertical Construction Joints shall be located in the field, except that no construction joint shall be located in the barrel within six feet of the ends of the culvert.

FOOTING PRESSURE:
Foundation materials are required to resist maximum Bearing Pressure of 18,000 psf.

SPECIAL NOTES:	STANDARD DRAWINGS
STENCILS FOR STRUCTURES	BGX-006-09

NOTE:
If solid rock is encountered above the bottom of the bottom slab, it shall be removed 8" below the bottom slab and replaced with Compacted Crushed Limestone. Cost of this work is to be incidental to the Unit Price Bid for Structural Excavation, Unclassified.

INCIDENTAL MATERIALS: The structure is to be completed in accordance with the plans and specifications. Materials or labor, not otherwise specified, are to be considered incidental to the contract.

REVISION	DATE

DATE:	CHECKED BY
DESIGNED BY: JJK	BLM
DETAILED BY: RWH	BLM

STATE OF KENTUCKY
BONNIE L. MONEY
#17435
REGISTERED PROFESSIONAL ENGINEER

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY: LETCHER

ROUTE: US 119 | CROSSING: POOR FORK OF CUMBERLAND RIVER

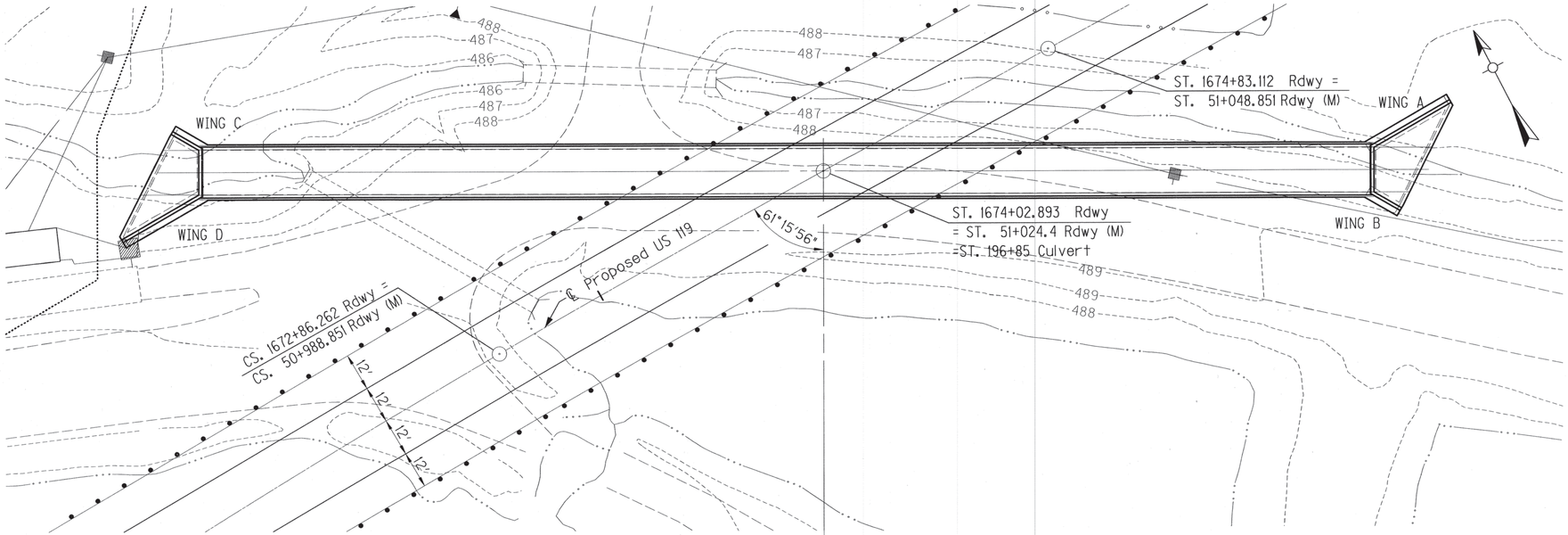
LAYOUT STA. 196+85

ITEM NUMBER: 12-311.10

PREPARED BY: Division of Bridge Design
TETRA TECH, INC.

SHEET NO. 1
DRAWING NO. 25358

FILE NAME: $$$$design$$$$filename$specification$$$$
USERNAME: $$$$plotted$by$$$$
DATE: $$$$DATE$$$$
SHEET LOCATION:

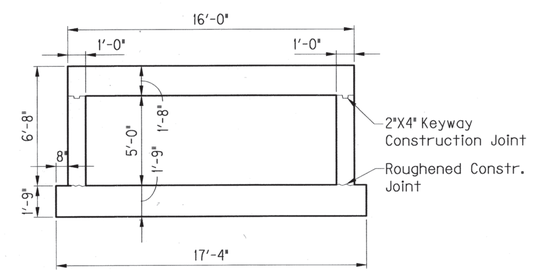


LAYOUT

14'-0" x 5'-0" x 368'-5⅛" R.C.B.C. UNYIELDING FOUNDATION 61°15'35" SKEW LEFT
-ROADWAY OVER-
24' PAVEMENT, 2-12' SHOULDERS
2:1 FILL SLOPES HS25 LOADING
SEE EMBANKMENT PLANS

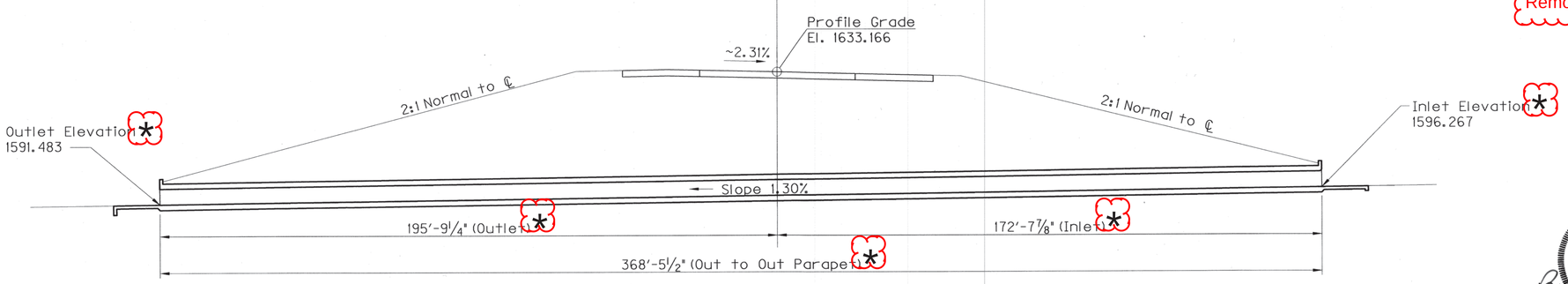
Bid Code	ESTIMATE OF QUANTITIES		
24693ED	Box Culvert - 14 FT x 5 FT	429.46	LF
8003	Foundation Preparation	1	LS

BOX CULVERT 14 FT x 5 FT: The unit price for 14' x 5' culvert includes all labor and materials to construct the culvert paid for per Linear Foot. No direct payment will be made for Class "A" Concrete or Steel Reinforcement.



TYPICAL SECTION

SCALE: ¼" = 1'-0"



ELEVATION ALONG ℄ CULVERT

*CONTRARY TO STRUCTURE PLANS, SEE SHEET R55 FOR THE TOTAL STRUCTURE LENGTH, LENGTHS LEFT AND RIGHT OF CENTERLINE, AND INLET AND OUTLET ELEVATIONS.

SPECIFICATIONS:
The Kentucky Department Of Transportation Standard Specifications for Road and Bridge Construction, Current Edition, with current supplementals shall apply to this Project

DESIGN LOAD:
Culvert slabs are designed for flexure in accordance with the AASHTO specifications, Current Edition with current interim's. The effective weight of Fill Material is 120 pounds per cubic foot and the Live Load is HS 25.

DESIGN METHOD:
All Reinforced Concrete members are designed by the Load Factor Method as specified in the Current AASHTO Specifications.

DESIGN STRESSES:
For Reinforcement Fy=60,000 psi; For Class "A" concrete F'c=4,500 psi.

CONCRETE:
Class "A" Concrete shall be used throughout.

REINFORCEMENT:
Dimensions shown from the face of concrete to Bars are clear distances unless otherwise shown. Spacing of Bars is from Center to Center of Bars.

BEVELED EDGES:
All exposed edges shall be beveled ⅞" unless otherwise shown.

CONSTRUCTION JOINTS:
Vertical Construction Joints shall be located in the field, except that no construction joint shall be located in the barrel within six feet of the ends of the culvert.

FOOTING PRESSURE:
Foundation materials are required to resist maximum Bearing Pressure of 18,000 psf.

SPECIAL NOTES:	STANDARD DRAWINGS
STENCILS FOR STRUCTURES	BGX-006-09

Removed Special Note for Geotechnial Legend

NOTE:
If solid rock is encountered above the bottom of the bottom slab, it shall be removed 8" below the bottom slab and replaced with Compacted Crushed Limestone. Cost of this work is to be incidental to the Unit Price Bid for Structural Excavation, Unclassified.

INCIDENTAL MATERIALS: The structure is to be completed in accordance with the plans and specifications. Materials or labor, not otherwise specified, are to be considered incidental to the contract.

Removed Shop Drawing Note

STATE OF KENTUCKY
BONNIE L. MONEY
#17435
REGISTERED
PROFESSIONAL ENGINEER

REVISION	DATE

DATE:	CHECKED BY
DESIGNED BY: JJK	BLM
DETAILED BY: RWH	BLM

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY: LETCHER

ROUTE: US 119 — CROSSING: POOR FORK OF CUMBERLAND RIVER

LAYOUT STA. 196+85

ITEM NUMBER: 12-311.10

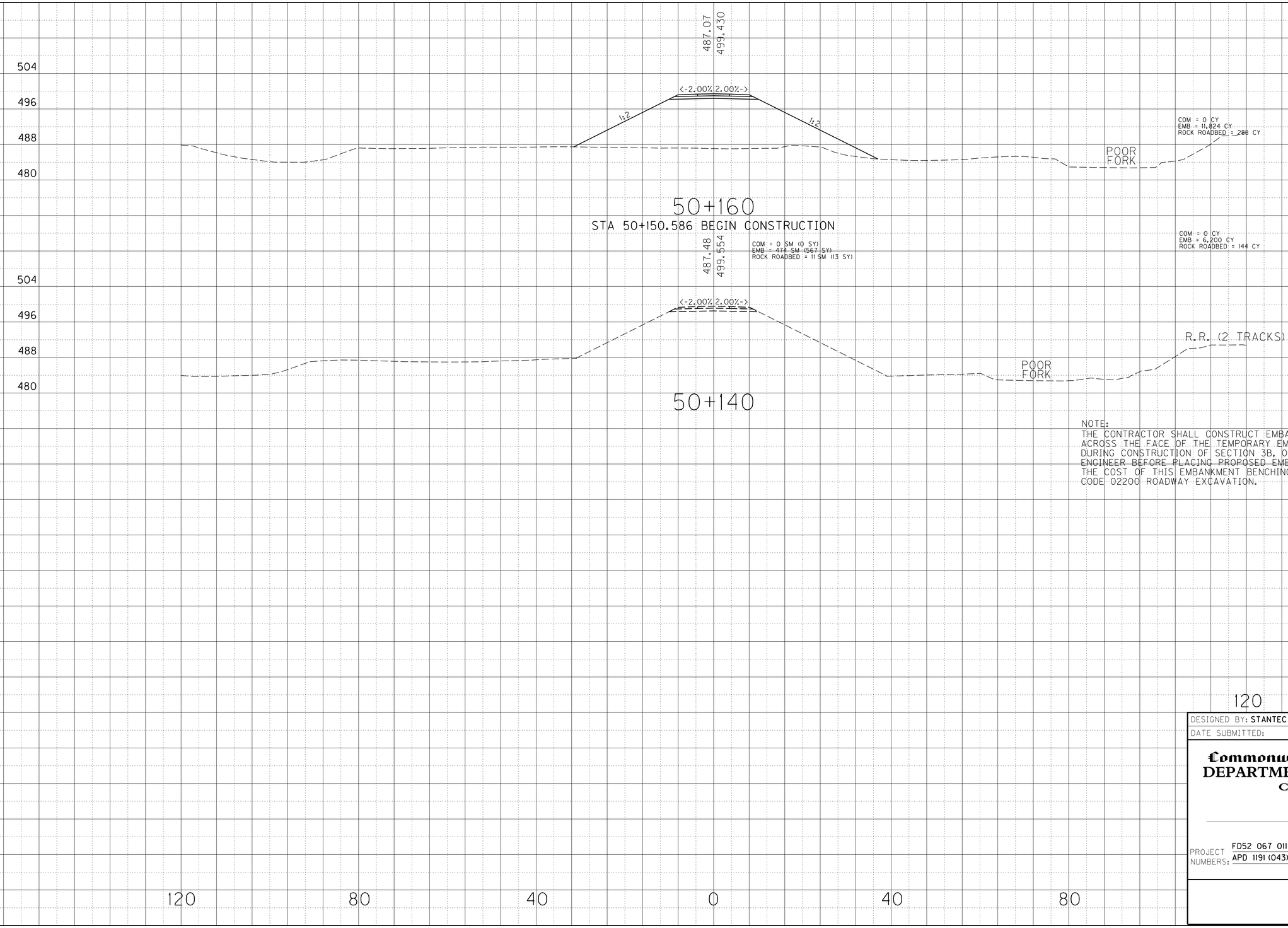
PREPARED BY: Division of Bridge Design
TETRA TECH, INC.

SHEET NO. 1
DRAWING NO. 25358

FILE NAME: $$$$design$$$

$$DGN$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X1



NOTE:
THE CONTRACTOR SHALL CONSTRUCT EMBANKMENT BENCHING ACROSS THE FACE OF THE TEMPORARY EMBANKMENT SLOPE PLACED DURING CONSTRUCTION OF SECTION 3B, OR AS DIRECTED BY THE ENGINEER BEFORE PLACING PROPOSED EMBANKMENT FOR SECTION 4. THE COST OF THIS EMBANKMENT BENCHING IS INCIDENTAL TO ITEM CODE 02200 ROADWAY EXCAVATION.

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

DESIGNED BY: STANTEC
DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

LETCHER

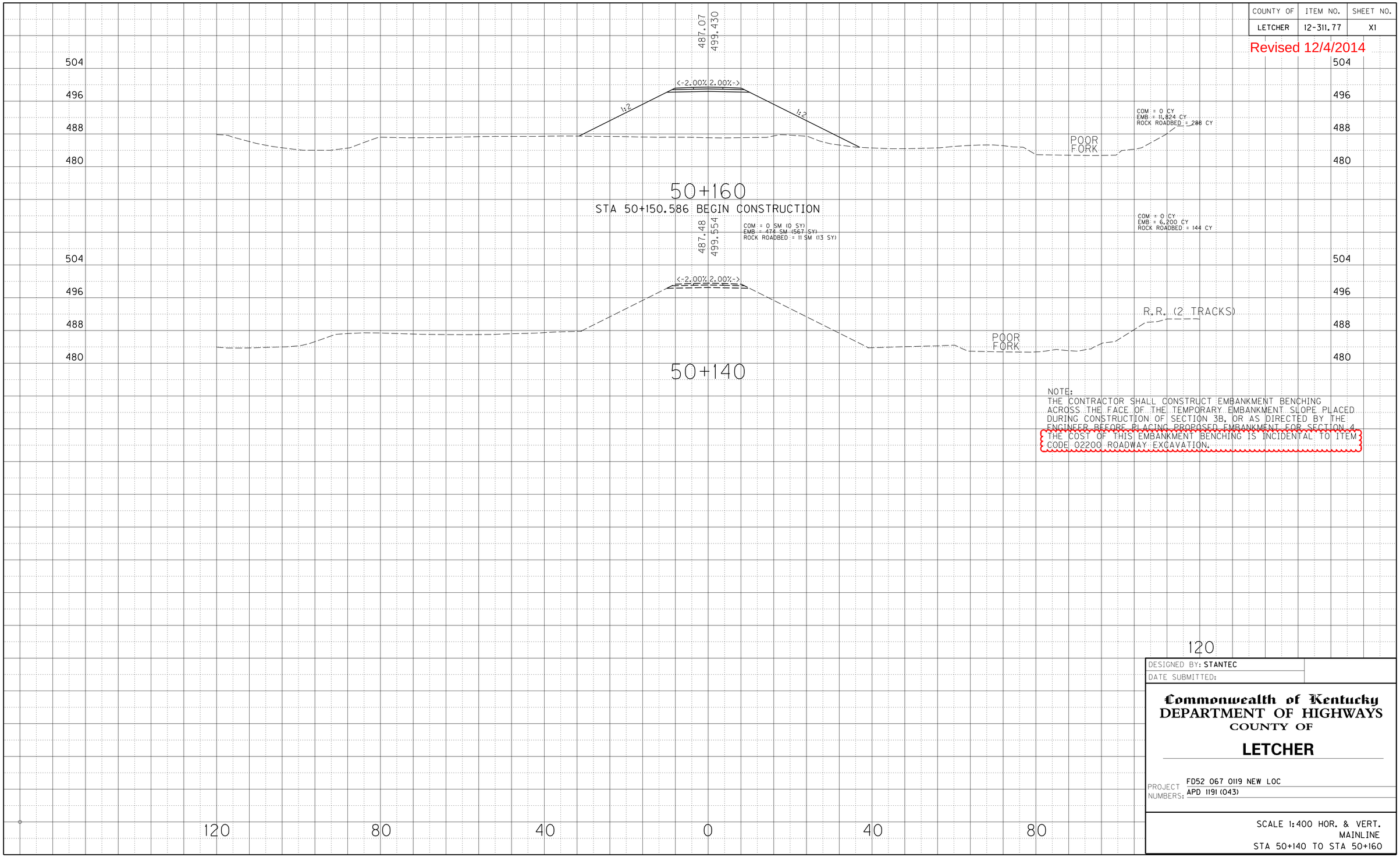
PROJECT NUMBERS: FD52 067 0119 NEW LOC
APD 1191 (043)

SCALE 1:400 HOR. & VERT.
MAINLINE
STA 50+140 TO STA 50+160

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X1

Revised 12/4/2014



NOTE:
THE CONTRACTOR SHALL CONSTRUCT EMBANKMENT BENCHING ACROSS THE FACE OF THE TEMPORARY EMBANKMENT SLOPE PLACED DURING CONSTRUCTION OF SECTION 3B, OR AS DIRECTED BY THE ENGINEER BEFORE PLACING PROPOSED EMBANKMENT FOR SECTION 4. THE COST OF THIS EMBANKMENT BENCHING IS INCIDENTAL TO ITEM CODE 02200 ROADWAY EXCAVATION.

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

DESIGNED BY: STANTEC
DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
LETCHER

PROJECT NUMBERS: FD52 067 0119 NEW LOC
APD 1191 (043)

SCALE 1:400 HOR. & VERT.
MAINLINE
STA 50+140 TO STA 50+160

$$DGN$$
$$DATE$$

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R2D

ITEM CODE	ITEM	NOTE	UNIT	QUANTITY
00078	CRUSHED AGGREGATE SIZE NO. 2	1	TON	8
01000	PERFORATED PIPE - 4 IN	1	LF	490
01002	PERFORATED PIPE - 8 IN	1	LF	200
01010	NON-PERFORATED PIPE - 4 IN	1	LF	60
01020	PERFORATED PIPE HEADWALL TYPE 1 - 4 IN	1	EACH	4
01028	PERFORATED PIPE HEADWALL TYPE 3 - 4 IN	1	EACH	1
01032	PERFORATED PIPE HEADWALL TYPE 4 - 4 IN	1	EACH	1
01034	PERFORATED PIPE HEADWALL TYPE 4 - 8 IN	7	EACH	2
01711	FILL AND CAP WELL	10	EACH	1
01786	FILL AND CAP MANHOLE	10	EACH	1
01891	ISLAND HEADER CURB TYPE 2		LF	50
01987	DELINEATOR FOR GUARDRAIL B/W		EACH	36
01990	DELINEATOR FOR BARRIER WALL - B/W		EACH	30
02014	BARRICADE-TYPE III	14	EACH	4
02159	TEMP DITCH		LF	9,678
02200	ROADWAY EXCAVATION		CUYD	4,619,694
02242	WATER	2	MGAL	3,000
02262	FENCE-WOVEN WIRE TYPE 1		LF	20,010
02351	GUARDRAIL-STEEL W BEAM-S FACE	16	LF	2,600
02360	GUARDRAIL TERMINAL SECTION NO 1		EACH	12
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A		EACH	4
02371	GUARDRAIL END TREATMENT TYPE 7		EACH	2
02429	RIGHT OF WAY MONUMENT TYPE 1		EACH	52
02431	WITNESS R/W MONUMENT TYPE 2		EACH	6
02432	WITNESS POST	11	EACH	58
02483	CHANNEL LINING CLASS II		TON	208
02488	CHANNEL LINING CLASS IV	5	CUYD	1,048
02542	CEMENT	7	TON	100
02545	CLEARING AND GRUBBING	3	LS	1
02562	SIGNS	14	SOFT	144
02568	MOBILIZATION		LS	1
02569	DEMOBILIZATION		LS	1
02598	FABRIC - GEOTEXTILE TYPE III	4	SQYD	38,016
02600	FABRIC-GEOTEXTILE TY IV FOR PIPE		SQYD	1,374
02650	MAINTAIN AND CONTROL TRAFFIC		LS	1
02690	SAFELOADING	19	CUYD	56
02692	SETTLEMENT PLATFORM	7	EACH	6
02701	TEMP SILT FENCE		LF	9,678
02703	SILT TRAP TYPE A		EACH	107
02704	SILT TRAP TYPE B		EACH	50
02706	CLEAN SILT TRAP TYPE A		EACH	321
02707	CLEAN SILT TRAP TYPE B		EACH	150
02709	CLEAN TEMP SILT FENCE		LF	29,034
02711	SEDIMENTATION BASIN		CUYD	2625
02712	CLEAN SEDIMENTATION BASIN		CUYD	7,875
02726	STAKING		LS	1
03340	STEEL PIPE - 2 1/2 IN	7	LF	210
03343	STEEL PIPE - 4 IN	7	LF	210
05950	EROSION CONTROL BLANKET	8	SQYD	11,238
05952	TEMP MULCH		SQYD	516,115
05953	TEMP SEEDING AND PROTECTION		SQYD	516,115
05963	INITIAL FERTILZER		TON	27
05964	20-10-10 FERTILIZER		TON	16
05985	SEEDING AND PROTECTION	9	SQYD	806,515
05992	AGRICULTURAL LIMESTONE		TON	320
06514	PAVE STRIPING -PERM PAINT - 4 IN	17	LF	1,160
06567	PAVE STRIPING - THERMO STOP BAR - 12 IN	17	LF	12
08100	CONCRETE - CLASS A	20	CUYD	2
08150	STEEL REINFORCEMENT	20	LB	150
10020NS	FUEL ADJUSTMENT		DOLLAR	706,418
20000ES724	TREE (BARE ROOT SEEDLINGS)	6	EACH	600
20209EP69	GRANULAR PILE CORE		CUYD	4,619
20667ED	PNEUMATIC BACKSTOWING	7	TON	4,500
23131ER701	PIPELINE VIDEO INSPECTION		LF	407
02731	REMOVE STRUCTURE	15	LS	1
02731	REMOVE STRUCTURE	18	LS	1
23649EC	DRAIN POND		LS	1

THE CONTRACTOR IS ADVISED THAT THE EARTHWORK FIGURES ABOVE ARE SHOWN FOR INFORMATION PURPOSES ONLY.
ASSUMPTIONS FOR SHRINK AND SWELL FACTORS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:

1. FOR TRANSVERSE AND EMBANKMENT BENCH DRAINAGE (SEE GEOTECHNICAL NOTES)
2. FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY
3. INCLUDES 100 ACRES FOR THE PROPOSED ROADWAY AND 60 ACRES FOR WASTE SITE #4
4. FOR USE WHERE REMOVAL OF EXIST. SOFT SOILS MAY BE NEEDED AND FOR POND STABILIZATION AS DIRECTED BY THE ENGINEER (SEE GEOTECHNICAL NOTES)
5. FOR PROTECTING TOES OF EMBANKMENT ALONG FLOODPLAIN AREAS (SEE GEOTECH NOTES SHEET R42) INCLUDES 537 CU YD FOR DITCHES
6. SEE REVEGETATION PLAN ON SHEET R24 FOR DETAILS
7. SEE GEOTECHNICAL NOTES
8. 10,000 SY SLOPE PROTECTION AND 1,238 SY FOR DITCH PROTECTION
9. INCLUDES PERMANENT EROSION CONTROL FOR WASTE SITE #4
10. THIS QUANTITY IS SHOWN FOR BIDDING PURPOSES ONLY
11. ONE WITNESS POST IS ASSUMED FOR EACH RIGHT OF WAY MONUMENT
12. 48324 CU YD IS AN ESTIMATE FOR REMOVAL OF EXIST. SOFT SOILS THAT MAY BE NEEDED AS DIRECTED BY THE ENGINEER BASED ON AN ESTIMATED DEPTH OF 3 FEET (SEE GEOTECHNICAL NOTES). ACTUAL QUANTITY TO BE PAID WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION. THE BACKFILL FOR THE REMOVED MATERIAL WILL BE BUILT AS PART OF THE ROADWAY ROCK EMBANKMENT
13. FOR REMOVAL OF THE SEDIMENTATION BASIN DAM AT THE FOOT OF WASTE SITE #4 (SEE SHEET R13)
14. FOR MAINTENANCE OF TRAFFIC
15. THE EXISTING STRUCTURE SHALL BE REMOVED AND ALL MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS
16. SHOP CURVED GUARDRAIL LENGTHS HAVE BEEN INCREASED BY 1.3 TIMES THE ACUTAL LENGTH
17. FOR STRIPING APPROACH ROAD LT STA 50+600
18. REMOVE THE EXISTING BUILDINGS BETWEEN THE BRIDGES AT STATIONS 51+515.500 AND 51+708.500 (PARCEL 21) AND LEFT OF STATION 52+350 (PARCEL 27). SEE SPECIAL NOTE.
19. ESTIMATED AT 7 SEPTIC TANKS
20. FOR CAPPING VERTICAL MINE OR AIR SHAFTS - GEOTECHNICAL NOTE 18 - EST. AT 10 SY
21. ADDITIONAL ESTIMATED EMBANKMENT NEEDED TO BUILD THE PROJECT PER TYPICAL SECTIONS TO PROVIDE AN ADDITIONAL 1.0 FT OF WIDENING ALONG GUARDRAIL EMBANKMENT AREAS

EARTHWORK TOTALS

COMMON		788,781 CU YD
ROCK		3,771,319 CU YD
SURF DITCH		0 CU YD
EMB BENCH		4,055 CU YD
TRANS. BENCH		4,590 CU YD
DITCH EXCAV. FROM PIPE SECTIONS		0 CU YD
SOFT SOIL REMOVAL	12	48,324 CU YD
SEDIMENTATION BASIN DAM REMOVAL	13	2,625 CU YD
TOTAL EXCAVATION		4,619,694 CU YD
ROCK ROADBED		47,195 CU YD
EMBANKMENT		465,946 CU YD
ADDITIONAL EMBANKMENT FOR GUARDRAIL	21	1,973 CU YD
BACKFILL FOR BENCHING		8,645 CU YD
BACKFILL OF SOFT SOIL REMOVAL	12	48,324 CU YD
TOTAL EMBANKMENT		572,083 CU YD

METRIC

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R2D

Revised 12/4/2014

ITEM CODE	ITEM	NOTE	UNIT	QUANTITY
00078	CRUSHED AGGREGATE SIZE NO. 2	1	TON	8
01000	PERFORATED PIPE - 4 IN	1	LF	490
01002	PERFORATED PIPE - 8 IN	1	LF	200
01010	NON-PERFORATED PIPE - 4 IN	1	LF	60
01020	PERFORATED PIPE HEADWALL TYPE 1 - 4 IN	1	EACH	4
01028	PERFORATED PIPE HEADWALL TYPE 3 - 4 IN	1	EACH	1
01032	PERFORATED PIPE HEADWALL TYPE 4 - 4 IN	1	EACH	1
01034	PERFORATED PIPE HEADWALL TYPE 4 - 8 IN	7	EACH	2
01711	FILL AND CAP WELL	10	EACH	1
01786	FILL AND CAP MANHOLE	10	EACH	1
01891	ISLAND HEADER CURB TYPE 2		LF	50
01987	DELINEATOR FOR GUARDRAIL B/W		EACH	36
01990	DELINEATOR FOR BARRIER WALL - B/W		EACH	30
02014	BARRICADE-TYPE III	14	EACH	4
02159	TEMP DITCH		LF	9,678
02200	ROADWAY EXCAVATION		CUYD	4,619,694
02242	WATER	2	MGAL	3,000
02262	FENCE-WOVEN WIRE TYPE 1		LF	20,010
02351	GUARDRAIL-STEEL W BEAM-S FACE	16	LF	2,600
02360	GUARDRAIL TERMINAL SECTION NO 1		EACH	12
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A		EACH	4
02371	GUARDRAIL END TREATMENT TYPE 7		EACH	2
02429	RIGHT OF WAY MONUMENT TYPE 1		EACH	52
02431	WITNESS R/W MONUMENT TYPE 2		EACH	6
02432	WITNESS POST	11	EACH	58
02483	CHANNEL LINING CLASS II		TON	208
02488	CHANNEL LINING CLASS IV	5	CUYD	1,048
02542	CEMENT	7	TON	100
02545	CLEARING AND GRUBBING	3	LS	1
02562	SIGNS	14	SOFT	144
02568	MOBILIZATION		LS	1
02569	DEMOBILIZATION		LS	1
02598	FABRIC - GEOTEXTILE TYPE III	4	SQYD	38,016
02600	FABRIC-GEOTEXTILE TY IV FOR PIPE		SQYD	1,374
02650	MAINTAIN AND CONTROL TRAFFIC		LS	1
02690	SAFELOADING	19	CUYD	56
02692	SETTLEMENT PLATFORM	7	EACH	6
02701	TEMP SILT FENCE		LF	9,678
02703	SILT TRAP TYPE A		EACH	107
02704	SILT TRAP TYPE B		EACH	50
02706	CLEAN SILT TRAP TYPE A		EACH	321
02707	CLEAN SILT TRAP TYPE B		EACH	150
02709	CLEAN TEMP SILT FENCE		LF	29,034
02711	SEDIMENTATION BASIN		CUYD	2625
02712	CLEAN SEDIMENTATION BASIN		CUYD	7,875
02726	STAKING		LS	1
03340	STEEL PIPE - 2 1/2 IN	7	LF	210
03343	STEEL PIPE - 4 IN	7	LF	210
05950	EROSION CONTROL BLANKET	8	SQYD	11,238
05952	TEMP MULCH		SQYD	516,115
05953	TEMP SEEDING AND PROTECTION		SQYD	516,115
05963	INITIAL FERTILZER		TON	27
05964	20-10-10 FERTILIZER		TON	16
05985	SEEDING AND PROTECTION	9	SQYD	806,515
05992	AGRICULTURAL LIMESTONE		TON	320
06514	PAVE STRIPING -PERM PAINT - 4 IN	17	LF	1,160
06567	PAVE STRIPING - THERMO STOP BAR - 12 IN	17	LF	12
08100	CONCRETE - CLASS A	20	CUYD	2
08150	STEEL REINFORCEMENT	20	LB	150
10020NS	FUEL ADJUSTMENT		DOLLAR	706,418
20000ES724	TREE (BARE ROOT SEEDLINGS)	6	EACH	600
20209EP69	GRANULAR PILE CORE		CUYD	4,619
20667ED	PNEUMATIC BACKSTOWING	7	TON	4,500
23131ER70	PIPELINE VIDEO INSPECTION		LF	407
02731	REMOVE STRUCTURE	15	LS	1
02731	REMOVE STRUCTURE	18	LS	1
23649EC	DRAIN POND		LS	1

THE CONTRACTOR IS ADVISED THAT THE EARTHWORK FIGURES ABOVE ARE SHOWN FOR INFORMATION PURPOSES ONLY. ASSUMPTIONS FOR SHRINK AND SWELL FACTORS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:

1. FOR TRANSVERSE AND EMBANKMENT BENCH DRAINAGE (SEE GEOTECHNICAL NOTES)
2. FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY
3. INCLUDES 100 ACRES FOR THE PROPOSED ROADWAY AND 60 ACRES FOR WASTE SITE #4
4. FOR USE WHERE REMOVAL OF EXIST. SOFT SOILS MAY BE NEEDED AND FOR POND STABILIZATION AS DIRECTED BY THE ENGINEER (SEE GEOTECHNICAL NOTES)
5. FOR PROTECTING TOES OF EMBANKMENT ALONG FLOODPLAIN AREAS (SEE GEOTECH NOTES SHEET R42) INCLUDES 537 CU YD FOR DITCHES
6. SEE REVEGETATION PLAN ON SHEET R24 FOR DETAILS
7. SEE GEOTECHNICAL NOTES
8. 10,000 SY SLOPE PROTECTION AND 1,238 SY FOR DITCH PROTECTION
9. INCLUDES PERMANENT EROSION CONTROL FOR WASTE SITE #4
10. THIS QUANTITY IS SHOWN FOR BIDDING PURPOSES ONLY
11. ONE WITNESS POST IS ASSUMED FOR EACH RIGHT OF WAY MONUMENT
12. 48324 CU YD IS AN ESTIMATE FOR REMOVAL OF EXIST. SOFT SOILS THAT MAY BE NEEDED AS DIRECTED BY THE ENGINEER BASED ON AN ESTIMATED DEPTH OF 3 FEET (SEE GEOTECHNICAL NOTES). ACTUAL QUANTITY TO BE PAID WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION. THE BACKFILL FOR THE REMOVED MATERIAL WILL BE BUILT AS PART OF THE ROADWAY ROCK EMBANKMENT
13. FOR REMOVAL OF THE SEDIMENTATION BASIN DAM AT THE FOOT OF WASTE SITE #4 (SEE SHEET R13)
14. FOR MAINTENANCE OF TRAFFIC
15. THE EXISTING STRUCTURE SHALL BE REMOVED AND ALL MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS
16. SHOP CURVED GUARDRAIL LENGTHS HAVE BEEN INCREASED BY 1.3 TIMES THE ACUTAL LENGTH
17. FOR STRIPING APPROACH ROAD LT STA 50+600
18. REMOVE THE EXISTING BUILDINGS BETWEEN THE BRIDGES AT STATIONS 51+515.500 AND 51+708.500 (PARCEL 21) AND LEFT OF STATION 52+350 (PARCEL 27). SEE SPECIAL NOTE.
19. ESTIMATED AT 7 SEPTIC TANKS
20. FOR CAPPING VERTICAL MINE OR AIR SHAFTS - GEOTECHNICAL NOTE 18 - EST. AT 10 SY
21. ADDITIONAL ESTIMATED EMBANKMENT NEEDED TO BUILD THE PROJECT PER TYPICAL SECTIONS TO PROVIDE AN ADDITIONAL 1.0 FT OF WIDENING ALONG GUARDRAIL EMBANKMENT AREAS

EARTHWORK TOTALS

COMMON		788,781 CU YD
ROCK		3,771,319 CU YD
SURF DITCH		0 CU YD
EMB BENCH		4,055 CU YD
TRANS. BENCH		4,590 CU YD
DITCH EXCAV. FROM PIPE SECTIONS		0 CU YD
SOFT SOIL REMOVAL	12	48,324 CU YD
SEDIMENTATION BASIN DAM REMOVAL	13	2,625 CU YD
TOTAL EXCAVATION		4,619,694 CU YD
ROCK ROADBED		47,195 CU YD
EMBANKMENT		465,946 CU YD
ADDITIONAL EMBANKMENT FOR GUARDRAIL	21	1,973 CU YD
BACKFILL FOR BENCHING		8,645 CU YD
BACKFILL OF SOFT SOIL REMOVAL	12	48,324 CU YD
TOTAL EMBANKMENT		572,083 CU YD

METRIC

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R2E

PAVING SUMMARY

PAVING AREAS

ITEM	SQUARE YARDS						
	APPROACH LT STA 50+600	ENTRANCES		TRAFFIC CONTROL			TOTAL PROJECT
1.25" CL2 ASPH SURF 0.38D PG64-22	1579	4037					5616
6.00" CL2 ASPH BASE 1.00D PG64-22 (2 - 3" COURSES FOR APPROACHES)	2606	4073					6679
4" CRUSHED STONE BASE	1019	4247					5266
FULL DEPTH CRUSHED STONE BASE (AVG. DEPTH = 9.25")	884						884
6" TRAFFIC BOUND BASE		1268		4728			5996
ASPHALT SEAL COAT (2 APPLICATIONS)	733						733
ASPHALT SEAL AGGREGATE (2 APPLICATIONS)	733						733

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	APPROACH LT STA 50+600	ENTRANCES		TRAFFIC CONTROL			TOTAL PROJECT
00003	CRUSHED STONE BASE ①	TON	④ 775	977					1752
00020	TRAFFIC BOUND BASE ①	TON		437		1631			2068
00100	ASPHALT SEAL AGGREGATE ③	TON	7						7
00103	ASPHALT SEAL COAT ②	TON	1						1
00212	CL2 ASPH BASE 1.00D PG64-22	TON	430	1344					1774
00301	CL2 ASPH SURF 0.38D PG64-22	TON	109	278					387

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 ESTIMATED AT 2.4 LBS. PER SQ. YD. PER COURSE (2 COURSES)

③ ESTIMATED AT 20 LBS. PER SQ. YD. PER COURSE (2 COURSES)

④ THE ESTIMATED QUANTITY OF CRUSHED STONE BASE REQUIRED TO CONSTRUCT THE APPROACH PAVEMENT HAS BEEN INCREASED BY 10% TO ALLOW FOR CONSTRUCTION ON A ROCK SUBGRADE.

METRIC

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R2E

Revised 12/4/2014

PAVING SUMMARY

PAVING AREAS

ITEM	SQUARE YARDS							
	APPROACH LT STA 50+600	ENTRANCES	TRAFFIC CONTROL					TOTAL PROJECT
1.25" CL2 ASPH SURF 0.38D PG64-22	1579	4037						5616
6.00" CL2 ASPH BASE 1.00D PG64-22 (2 - 3" COURSES FOR APPROACHES)	2606	4073						6679
4" CRUSHED STONE BASE	1019	4247						5266
FULL DEPTH CRUSHED STONE BASE (AVG. DEPTH = 9.25")	884							884
6" TRAFFIC BOUND BASE		1268	4728					5996
ASPHALT SEAL COAT (2 APPLICATIONS)	733							733
ASPHALT SEAL AGGREGATE (2 APPLICATIONS)	733							733

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	APPROACH LT STA 50+600	ENTRANCES	TRAFFIC CONTROL															TOTAL PROJECT
00003	CRUSHED STONE BASE ①	TON	④ 775	977																1752
00020	TRAFFIC BOUND BASE ①	TON		437	1631															2068
00100	ASPHALT SEAL AGGREGATE ③	TON	7																	7
00103	ASPHALT SEAL COAT ②	TON	1																	1
00212	CL2 ASPH BASE 1.00D PG64-22	TON	430	1344																1774
00301	CL2 ASPH SURF 0.38D PG64-22	TON	109	278																387

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 ESTIMATED AT 2.4 LBS. PER SQ. YD. PER COURSE (2 COURSES)

③ ESTIMATED AT 20 LBS. PER SQ. YD. PER COURSE (2 COURSES)

④ THE ESTIMATED QUANTITY OF CRUSHED STONE BASE REQUIRED TO CONSTRUCT THE APPROACH PAVEMENT HAS BEEN INCREASED BY 10% TO ALLOW FOR CONSTRUCTION ON A ROCK SUBGRADE.

METRIC

PROJECT NOTES

SPECIAL NOTES

SPECIAL NOTE FOR DISRUPTION TO MINING OPERATIONS

It is very important that any disruption to the coal haul truck traffic and emergency access be kept to an absolute minimum. Any claims for down time due to the action or inaction of the Contractor that is made by the coal company will be made directly to the Contractor and not the Department of Highways. The Department will not consider any additional payments or claims resulting from any action or inaction by the Contractor which causes delays to the coal company. This note will apply even in the event that mining operations were to restart at a later date. The contact for the coal company will be provided:

SPECIAL NOTE FOR ARCHITECTURAL TREATMENT OF BRIDGE BARRIERS

This special note applies to the bridges on the project. It is to be used with the contract structure drawings, general notes and the current Edition of The Standard Specifications for Road and Bridge Construction.

1.0 DESCRIPTION. Contrary to the bridge drawings and general notes, the concrete barriers on the bridges are to have an architectural treatment and not the stone veneer as shown. All references to the “Stone Masonry Veneer”are to be deleted.

2.0 MATERIALS. The architectural treatment will consist of a form liner finish, #330 “Ashlar Stone”as manufactured by Greenstreak of St. Louis, Missouri, or approved equal. Masonry coating shall comply with SECTION 828 of the Standard Specifications.

3.0 CONSTRUCTION. The minimum dimensions of the of the concrete barrier at the formed mortar joints of the form liner will remain the same as shown in the typical barrier section before the addition of the stone masonry veneer. The form liner will be applied to the inside face of the barrier above the ten inch sloped face to the top of the wall, and to the outside face beginning at the double V groove at the top of the slab to the top of the wall. The horizontal top of the barrier wall will receive a normal float finish without any type of texturing. The barrier wall will be coated with normal masonry coating as required by SECTION 601.03.18B of The Standard Specifications for Road and Bridge Construction.

4.0 MEASUREMENT AND PAYMENT. No direct measurements for architectural treatment will be made and all costs associated with this item, labor, materials including the required masonry coating are INCIDENTAL TO THE ITEM, Class AA Concrete.

METRIC

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.37	R2H

Revised 12/4/2014

PROJECT NOTES

SPECIAL NOTES

SPECIAL NOTE FOR DISRUPTION TO MINING OPERATIONS

It is very important that any disruption to the coal haul truck traffic and emergency access be kept to an absolute minimum. Any claims for down time due to the action or inaction of the Contractor that is made by the coal company will be made directly to the Contractor and not the Department of Highways. The Department will not consider any additional payments or claims resulting from any action or inaction by the Contractor which causes delays to the coal company. This note will apply even in the event that mining operations were to restart at a later date. The contact for the coal company will be provided:

SPECIAL NOTE FOR ARCHITECTURAL TREATMENT OF BRIDGE BARRIERS

This special note applies to the bridges on the project. It is to be used with the contract structure drawings, general notes and the current Edition of The Standard Specifications for Road and Bridge Construction.

1.0 DESCRIPTION. Contrary to the bridge drawings and general notes, the concrete barriers on the bridges are to have an architectural treatment and not the stone veneer as shown. All references to the “Stone Masonry Veneer”are to be deleted.

2.0 MATERIALS. The architectural treatment will consist of a form liner finish, #330 “Ashlar Stone”as manufactured by Greenstreak of St. Louis, Missouri, or approved equal. Masonry coating shall comply with SECTION 828 of the Standard Specifications.

3.0 CONSTRUCTION. The minimum dimensions of the of the concrete barrier at the formed mortar joints of the form liner will remain the same as shown in the typical barrier section before the addition of the stone masonry veneer. The form liner will be applied to the inside face of the barrier above the ten inch sloped face to the top of the wall, and to the outside face beginning at the double V groove at the top of the slab to the top of the wall. The horizontal top of the barrier wall will receive a normal float finish without any type of texturing. The barrier wall will be coated with normal masonry coating as required by SECTION 601.03.18B of The Standard Specifications for Road and Bridge Construction.

4.0 MEASUREMENT AND PAYMENT. No direct measurements for architectural treatment will be made and all costs associated with this item, labor, materials including the required masonry coating are INCIDENTAL TO THE ITEM, Class AA Concrete.

METRIC

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R3

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE — 100m V.C.
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE — P.L.
PROPOSED RIGHT OF WAY — R/W
RIGHT OF WAY MARKERS
BENCH MARK — B.M. NO. 4
RURAL RIGHT OF WAY MARKER
MUNICIPAL RIGHT OF WAY MARKER
EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)
TREES
PIPE CULVERT
CULVERT
BRIDGE
NORMAL ROADWAY DITCH
BUILDINGS — 1-S FRAME, 1-S BRICK, SHED, 2-S BRICK
GUARDRAIL — END TREATMENT, GUARD RAIL, TERMINAL SECTION
LIGHTING POLE — EXISTING / PROPOSED
POWER POLE
JOINT POWER & TELEPHONE POLE
TELEPHONE & TELEGRAPH POLE
ANCHOR, POWER OR TELEPHONE
STUB POWER
STUB TELEPHONE
WATER MAIN — 152.4mm (6") WM
GAS MAIN — 152.4mm (6") GM
TELEPHONE DUCT — TP4MTD
ELECTRIC DUCT — EL4MTD
TELEPHONE MANHOLE — TMH
ELECTRIC MANHOLE — EMH
SANITARY SEWER — 137.6mm (54") SAN
STORM SEWER — 137.6mm (54") STORM
SEWER MANHOLE
DIRECT BURIAL ELECTRIC CABLE
DIRECT BURIAL TELEPHONE CABLE
TOWER
STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
SILT CHECK — C
SILT TRAP — A
LARGE STREAM — KENTUCKY RIVER
SMALL STREAM
INTERMITTENT STREAM
LAKES OR PONDS
NORTH POINT

THE CONTRACTOR SHALL NOT WORK FROM STATION 50+150.586 (BEGIN CONSTRUCTION) TO STATION 50+700 UNTIL JULY 1, 2015. THIS INCLUDES THE BRIDGE AND APPROACH LEFT OF STATION 50+600. THE SECTION ENGINEER MAY CHANGE AND ALLOW WORK IN THIS AREA BEFORE JULY 1, 2015 ONLY BY WRITTEN NOTICE TO THE CONTRACTOR

THE CONTRACTOR WILL KEEP ACCESS AVAILABLE TO THE CONTRACTOR FOR SECTION 3B TO EXISTING US 119 BETWEEN THE BRIDGES FROM STA. 50+229 TO STA 50+350.

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.

ENTRANCE SUMMARY					
SIDE	STATION	TYPE	WIDTH	ASPHALT	TBB
			FT	SY	SY
RT	50+600.00	COM	24	1599	

UTILITY OWNERS

AT&T of KY
20 WILLIS BRANCH RD
PRESTONSBURG, KY 41653
PHONE: (606) 874-2715
~~CELL: (606) 424-9328~~
ATTN: JACKIE SALYER

INTERMOUNTAIN CABLE COMPANY
P.O. BOX 159
HAROLD, KY 41653
PHONE: (606) 478-3401 EXT. 222
ATTN: ROY HARLOW

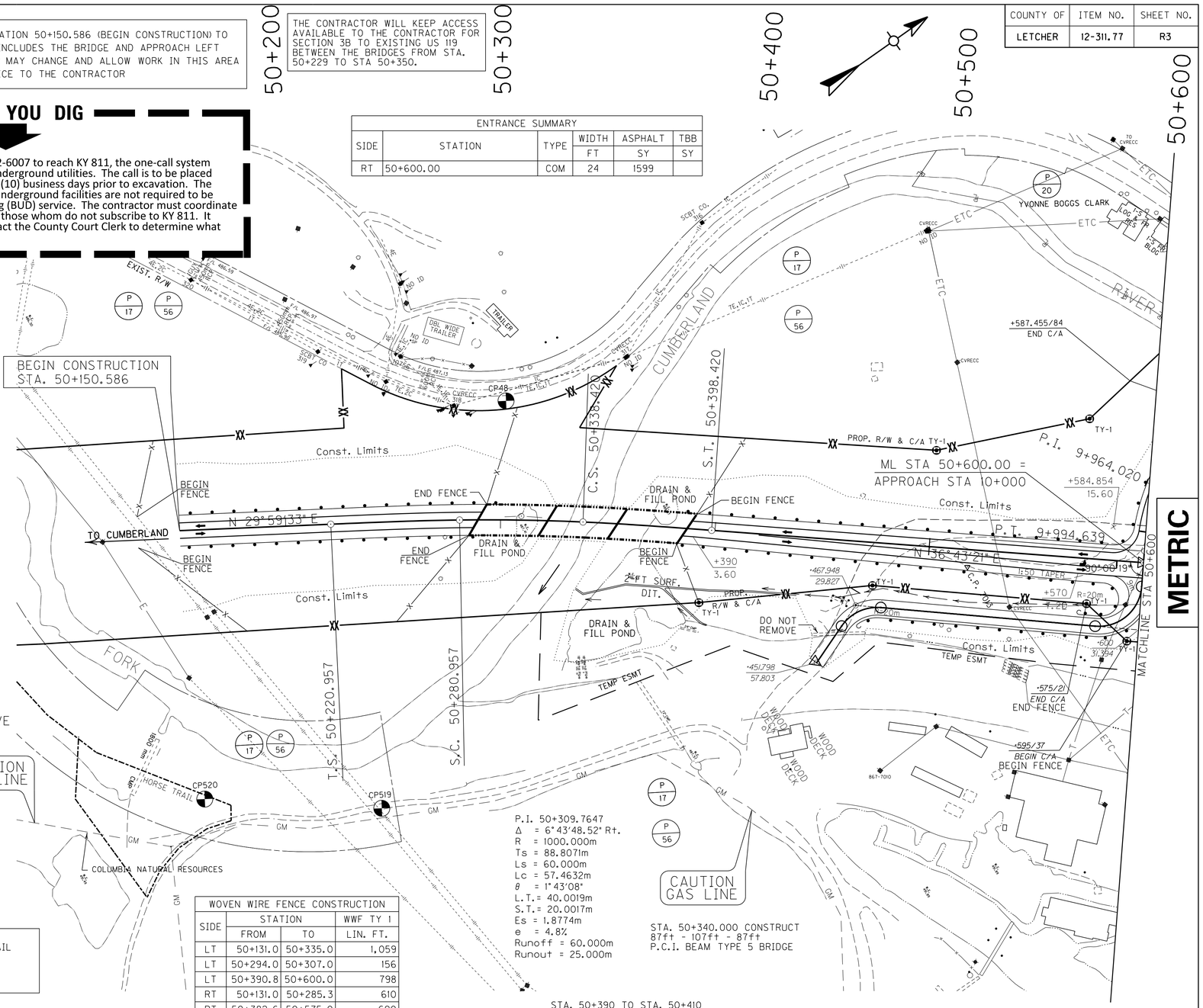
WINDSTREAM COMMUNICATIONS CO.
719 NORTH MAIN STREET
LONDON, KY 40741
OFFICE: (606) 878-3258
CELL: (606) 524-0058
ATTN: BOWMAN HAIL

CUMBERLAND VALLEY RECC
P.O. BOX 440
GRAY, KY 40734
606-528-2677
ATTN: DONALD LYNCH

EAST KENTUCKY POWER COOPERATIVE
P.O. BOX 707
WINCHESTER, KY 40392
OFFICE: (859) 745-9605
ATTN: NICHOLAS ADAMS

CHESAPEAKE APPALACHIAN GAS LLC
P.O. BOX 150
PRESTONSBURG, KY 41653
OFFICE: (606) 298-3400
CELL: (606) 794-3042
ATTN: MICHAEL FLANERY

UNLESS OTHERWISE NOTED, GUARDRAIL TO BE INSTALLED ON SEPARATE CONTRACT BY OTHERS.



P.I. 50+309.7647
Δ = 6°43'48.52" Rt.
R = 1000.000m
Ts = 88.807m
Ls = 60.000m
Lc = 57.4632m
θ = 1°43'08"
L.T.= 40.0019m
S.T.= 20.0017m
Es = 1.8774m
e = 4.8%
Runoff = 60.000m
Runout = 25.000m

STA. 50+340.000 CONSTRUCT 87ft - 107ft - 87ft P.C.I. BEAM TYPE 5 BRIDGE

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY I
	FROM	TO	LIN. FT.
LT	50+131.0	50+335.0	1,059
LT	50+294.0	50+307.0	156
LT	50+390.8	50+600.0	798
RT	50+131.0	50+285.3	610
RT	50+382.6	50+575.0	690
RT	50+595.0	50+600.0	16

STA. 50+390 TO STA. 50+410
REMOVE EXISTING SOFT SOIL AREAS AND STABILIZE EMBANKMENT FOUNDATION USING 5711 SQ YD OF TYPE III GEOTEXTILE AND 6246 CU YD OF ADDITIONAL ROCK ROADWAY EMBANKMENT OR AS DIRECTED BY THE ENGINEER

STA. 50+150 TO STA. 50+330
REMOVE EXISTING SOFT SOIL AREAS AND STABILIZE EMBANKMENT FOUNDATION USING 12215 SQ YD OF TYPE III GEOTEXTILE AND 13361 CU YD OF ADDITIONAL ROCK ROADWAY EMBANKMENT OR AS DIRECTED BY THE ENGINEER

CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN: TYPE 1 - 6 EACH

GUARDRAIL							
	STATION		GUARDRAIL SF	END TREATMENTS		BRIDGE END CON. TY. A	TERMINAL SECT. NO. 1
SIDE	FROM	TO	LF	1	7		
RT	50+582.2	50+590.0	125.0				2
RT	50+470.0	50+615.0	525.0				2

DITCH CHART						
SIDE	STA TO STA		SHAPE	LINER	DEPTH	QUANTITY
RT.	50+340 -	50+440	2' F.B. SURF	CLASS IV	1.00	156 CU YD
RT.	50+440 -	50+578	SPCL "V"	SEED	1.00	-

0m 50m
SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 50+100 TO STA. 50+600

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R3

Revised 12/4/2014

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE — 100m V.C.
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE — P.L.
PROPOSED RIGHT OF WAY — R/W
RIGHT OF WAY MARKERS
BENCH MARK — B.M. NO. 4
RURAL RIGHT OF WAY MARKER
MUNICIPAL RIGHT OF WAY MARKER
EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)
TREES
PIPE CULVERT
CULVERT
BRIDGE
NORMAL ROADWAY DITCH
BUILDINGS — 1-S FRAME, 1-S BRICK, SHED, 2-S BRICK
GUARDRAIL — END TREATMENT, GUARD RAIL, TERMINAL SECTION
LIGHTING POLE — EXISTING, PROPOSED
POWER POLE
JOINT POWER & TELEPHONE POLE
TELEPHONE & TELEGRAPH POLE
ANCHOR, POWER OR TELEPHONE
STUB POWER
STUB TELEPHONE
WATER MAIN — 152.4mm (6") WM
GAS MAIN — 152.4mm (6") GM
TELEPHONE DUCT — TP4MTD
ELECTRIC DUCT — EL4MTD
TELEPHONE MANHOLE — TMH
ELECTRIC MANHOLE — EMH
SANITARY SEWER — 137I.6mm (54") SAN
STORM SEWER — 137I.6mm (54") STORM
SEWER MANHOLE
DIRECT BURIAL ELECTRIC CABLE
DIRECT BURIAL TELEPHONE CABLE
TOWER
STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
SILT CHECK — C
SILT TRAP — A
LARGE STREAM — KENTUCKY RIVER
SMALL STREAM
INTERMITTENT STREAM
LAKES OR PONDS
NORTH POINT

THE CONTRACTOR SHALL NOT WORK FROM STATION 50+150.586 (BEGIN CONSTRUCTION) TO STATION 50+700 UNTIL JULY 1, 2015. THIS INCLUDES THE BRIDGE AND APPROACH LEFT OF STATION 50+600. THE SECTION ENGINEER MAY CHANGE AND ALLOW WORK IN THIS AREA BEFORE JULY 1, 2015 ONLY BY WRITTEN NOTICE TO THE CONTRACTOR

THE CONTRACTOR WILL KEEP ACCESS AVAILABLE TO THE CONTRACTOR FOR SECTION 3B TO EXISTING US 119 BETWEEN THE BRIDGES FROM STA. 50+229 TO STA 50+350.

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.

ENTRANCE SUMMARY					
SIDE	STATION	TYPE	WIDTH	ASPHALT	TBB
			FT	SY	SY
RT	50+600.00	COM	24	1599	

UTILITY OWNERS

AT&T of KY
20 WILLIS BRANCH RD
PRESTONSBURG, KY 41653
PHONE: (606) 874-2715
CELL: (606) 424-9328
ATTN: JACKIE SALYER

INTERMOUNTAIN CABLE COMPANY
P.O. BOX 159
HAROLD, KY 41653
PHONE: (606) 478-3401 EXT. 222
ATTN: ROY HARLOW

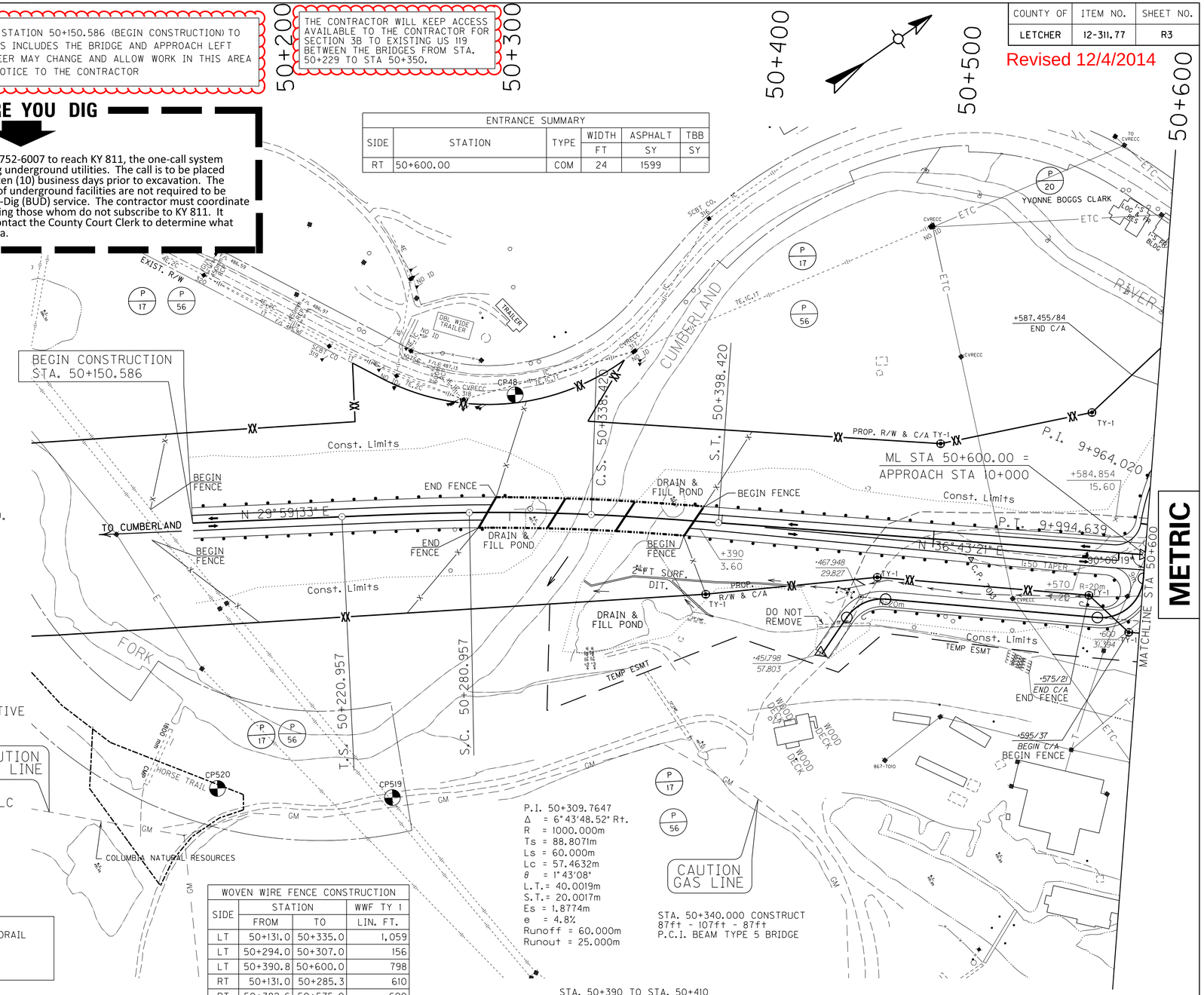
WINDSTREAM COMMUNICATIONS CO.
719 NORTH MAIN STREET
LONDON, KY 40741
OFFICE: (606) 878-3258
CELL: (606) 524-0058
ATTN: BOWMAN HAIL

CUMBERLAND VALLEY RECC
P.O. BOX 440
GRAY, KY 40734
606-528-2677
ATTN: DONALD LYNCH

EAST KENTUCKY POWER COOPERATIVE
P.O. BOX 707
WINCHESTER, KY 40392
OFFICE: (859) 745-9605
ATTN: NICHOLAS ADAMS

CHESAPEAKE APPALACHIAN GAS LLC
P.O. BOX 150
PRESTONSBURG, KY 41653
OFFICE: (606) 298-3400
CELL: (606) 794-3042
ATTN: MICHAEL FLANERY

UNLESS OTHERWISE NOTED, GUARDRAIL TO BE INSTALLED ON SEPARATE CONTRACT BY OTHERS.



P.I. 50+309.7647
Δ = 6°43'48.52" Rt.
R = 1000.000m
Ts = 88.807lm
Ls = 60.000m
Lc = 57.4632m
θ = 1°43'08"
L.T.= 40.0019m
S.T.= 20.0017m
Es = 1.8774m
e = 4.8%
Runoff = 60.000m
Runout = 25.000m

STA. 50+340.000 CONSTRUCT 87ft - 107ft - 87ft P.C.I. BEAM TYPE 5 BRIDGE

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY I
	FROM	TO	LIN. FT.
LT	50+131.0	50+335.0	1,059
LT	50+294.0	50+307.0	156
LT	50+390.8	50+600.0	798
RT	50+131.0	50+285.3	610
RT	50+382.6	50+575.0	690
RT	50+595.0	50+600.0	16

STA. 50+390 TO STA. 50+410
REMOVE EXISTING SOFT SOIL AREAS AND STABILIZE EMBANKMENT FOUNDATION USING 5711 SQ YD OF TYPE III GEOTEXTILE AND 6246 CU YD OF ADDITIONAL ROCK ROADWAY EMBANKMENT OR AS DIRECTED BY THE ENGINEER

STA. 50+150 TO STA. 50+330
REMOVE EXISTING SOFT SOIL AREAS AND STABILIZE EMBANKMENT FOUNDATION USING 12215 SQ YD OF TYPE III GEOTEXTILE AND 13361 CU YD OF ADDITIONAL ROCK ROADWAY EMBANKMENT OR AS DIRECTED BY THE ENGINEER

CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN: TYPE 1 - 6 EACH

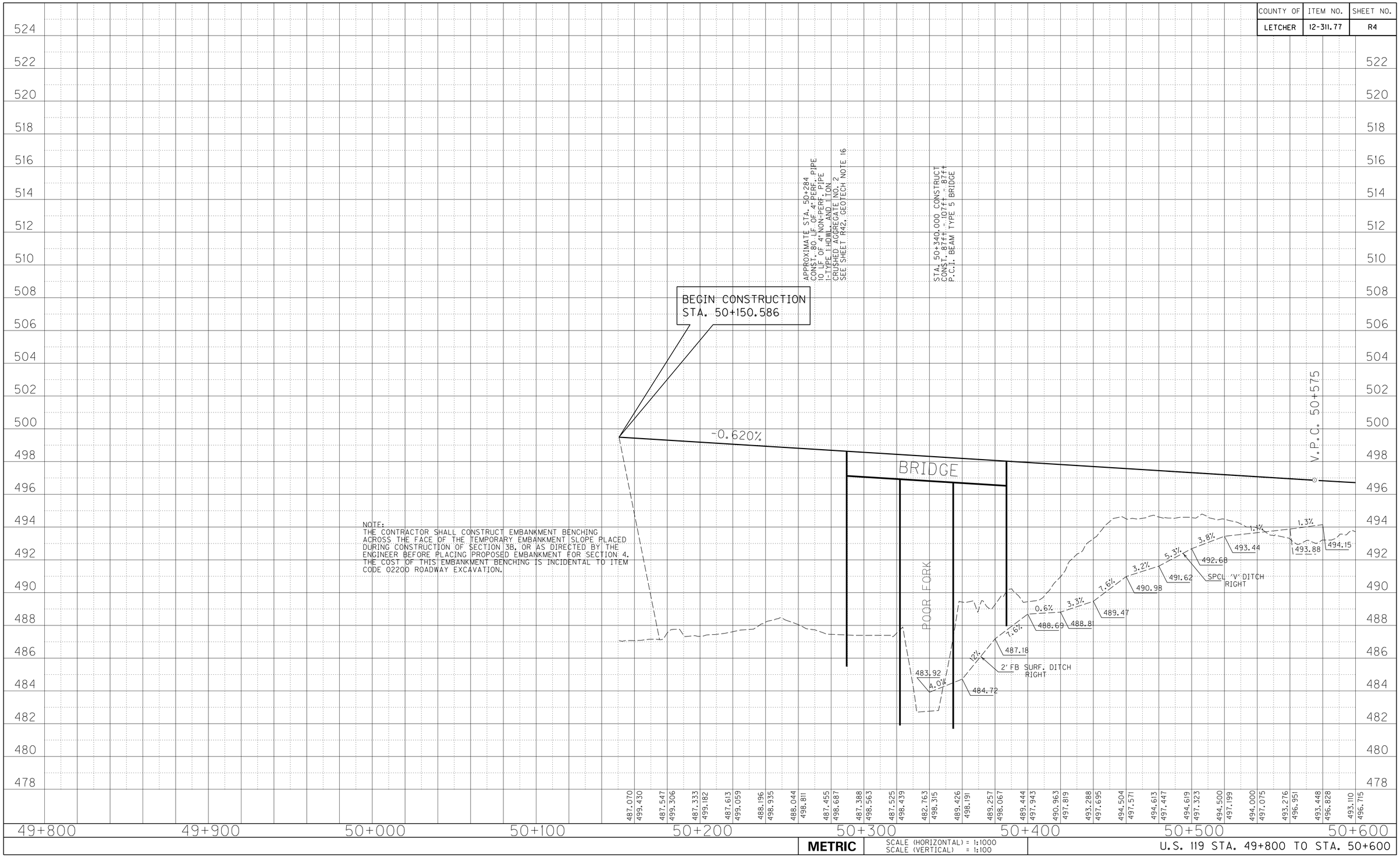
GUARDRAIL							
	STATION		GUARDRAIL SF	END TREATMENTS		BRIDGE END CON. TY. A	TERMINAL SECT. NO. 1
SIDE	FROM	TO	LF	1	7		
RT	50+582.2	50+590.0	125.0				2
RT	50+470.0	50+615.0	525.0				2

DITCH CHART						
SIDE	STA TO STA		SHAPE	LINER	DEPTH	QUANTITY
RT.	50+340 -	50+440	2' F.B. SURF	CLASS IV	1.00	156 CU YD
RT.	50+440 -	50+578	SPCL "V"	SEED	1.00	-

0m 50m
SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 50+100 TO STA. 50+600

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R4



PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

METRIC

SCALE (HORIZONTAL) = 1:1000
SCALE (VERTICAL) = 1:100

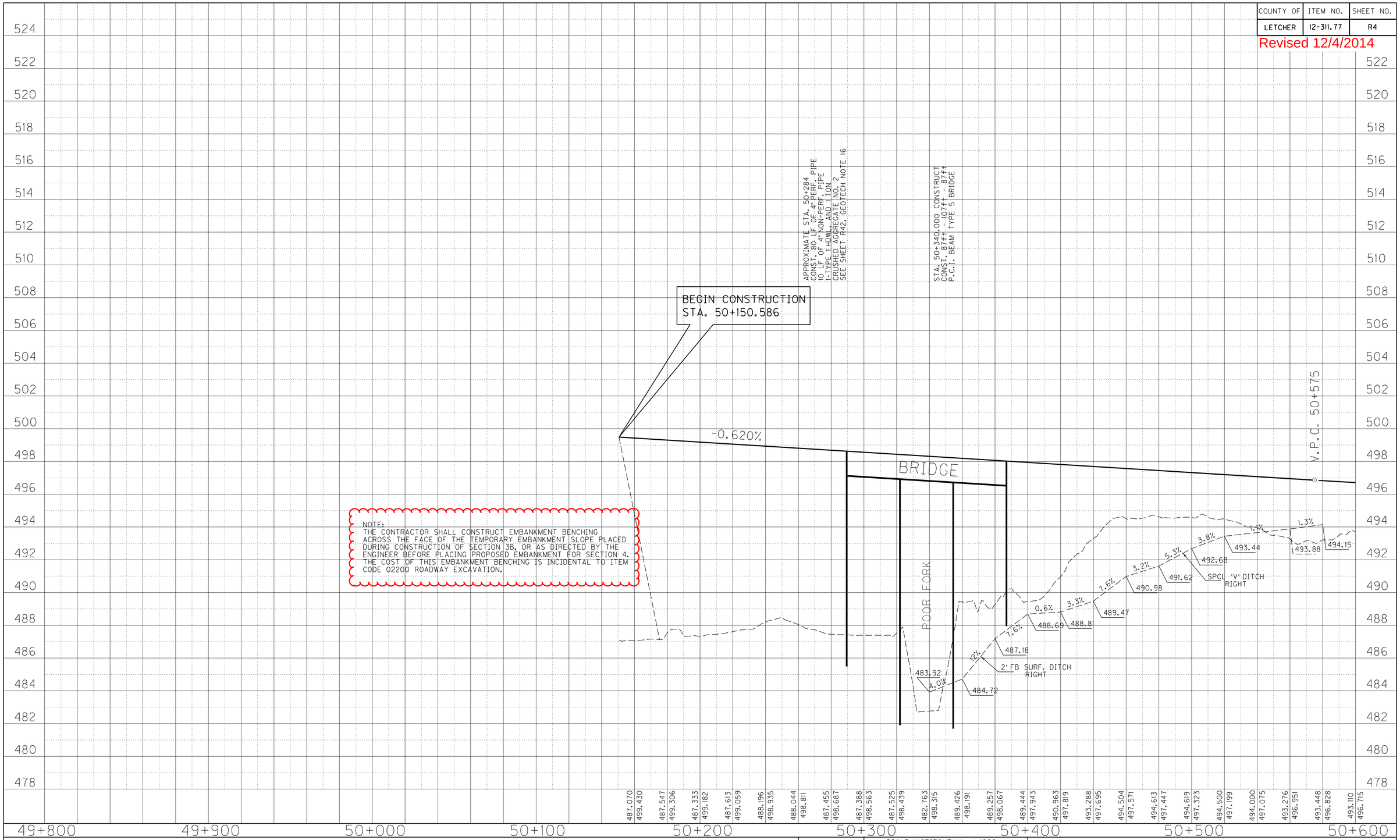
U.S. 119 STA. 49+800 TO STA. 50+600

$$DGN$$

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R4

Revised 12/4/2014



PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

METRIC

SCALE (HORIZONTAL) = 1:1000
SCALE (VERTICAL) = 1:100

U.S. 119 STA. 49+800 TO STA. 50+600

$$DGN$$

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R5

DITCH CHART							
ENTRANCE LT. & RT. STA. 51+147.87							
RT.	9+872	-	9+958	2' F.B. SURF	CLASS II	1.00	125 TONS
LT.	10+036	-	10+093	2' F.B. SURF	CLASS II	1.00	83 TONS
RT.	10+018	-	10+108	2' F.B. SURF	ECB	1.00	209 SQ YD
RT.	10+118	-	10+134	2' F.B. SURF	ECB	1.00	37 SQ YD
RALEIGH CEMETERY ENTRANCE							
RT.	10+820	-	10+900	SPCL. "V"	ROCK CUT	1.00	-
LT.	10+815	-	10+920	SPCL. "V"	ROCK CUT	1.00	-

STA. 50+824 TO STA. 51+046
DRAIN EXISTING PONDS AND STABILIZE AS DIRECTED ON THIS SHEET (SEE GEOTECH NOTES SHEET R42)

STA. 50+824 TO STA. 51+046
REMOVE EXISTING SOFT SOIL AREAS AND STABILIZE EMBANKMENT FOUNDATION USING 18908 SQ.YD. OF TYPE III GEOTEXTILE AND 27425 CU YD OF ADDITIONAL ROCK ROADWAY EMBANKMENT OR AS DIRECTED BY THE ENGINEER.

APPROACH LT 50+600 CURVE DATA
P.I. 9+964.0199
Δ = 36°21'27.36" Lt.
R = 100.000m
T = 32.8373m
L = 63.4560m
E = 5.2535m
e = 2.0%
Runoff = SEE X-SECTIONS
Runout = SEE X-SECTIONS

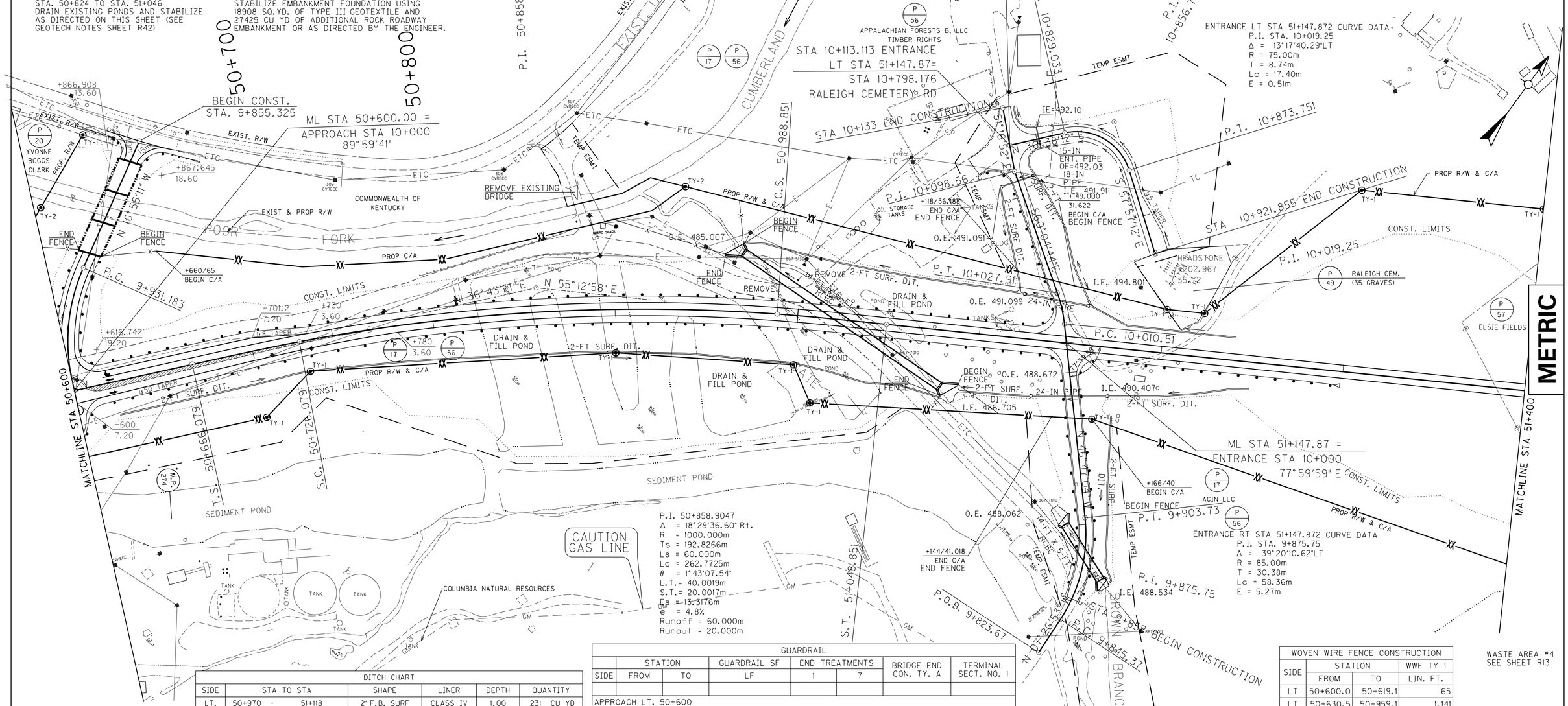
APPR. STA. 9+985.214 CONSTRUCT 59ft - 59ft - 59ft P.C.I. BEAM TYPE 3 BRIDGE

APPR. STA. 10+113.1
ENT. STA. 10+798.2
(RALEIGH CEMETERY RD)

ENTRANCE SUMMARY					
SIDE	STATION	TYPE	WIDTH FT	ASPHALT SY	TBB SY
LT	51+147.87	COM	20	1575	
LT	RALEIGH CEMETERY RD	COM	18	811	
RT	51+147.87	COM	24		1268

CEMETERY ENTRANCE CURVE DATA
P.I. 10+856.7186
Δ = 85°24'16.05" Rt.
R = 30.000m
T = 27.6854m
L = 44.7177m
E = 10.8255m
e = NC

ENTRANCE LT STA 51+147.872 CURVE DATA
P.I. STA. 10+019.25
Δ = 13°17'40.29"LT
R = 75.00m
T = 8.74m
Lc = 17.40m
E = 0.51m



DITCH CHART						
SIDE	STA TO STA		SHAPE	LINER	DEPTH	QUANTITY
LT.	50+970	- 51+118	2' F.B. SURF	CLASS IV	1.00	231 CU YD
LT.	51+160	- 51+250	2' F.B. SURF	CLASS IV	1.00	141 CU YD
LT.	51+250	- 51+400	NORM	ROCK	1.00	-
RT.	50+620	- 51+040	2' F.B. SURF	ECB	1.00	992 SQ YD
RT.	51+040	- 51+080	2' F.B. SURF	CLASS IV	1.00	63 CU YD
RT.	51+090	- 51+130	2' F.B. SURF	CLASS IV	1.00	63 CU YD
RT.	51+174	- 51+250	2' F.B. SURF	CLASS IV	1.00	119 CU YD
RT.	51+250	- 51+400	NORM	ROCK	1.00	-

CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN:
TYPE 1 - 11 EACH
TYPE 2 - 2 EACH

P 20 YVONNE BOGGS CLARK

GUARDRAIL							
	STATION		GUARDRAIL SF	END TREATMENTS		BRIDGE END CON. TY. A	TERMINAL SECT. NO. 1
SIDE	FROM	TO	LF	1	7		
APPROACH LT. 50+600							
LT	9+870	9+852	62.5		1	1	
LT	9+919	9+988	237.5			1	1
RT	9+861	9+871	62.5		1	1	
RT	9+920	9+993	275.0			1	1
ENTRANCE RT & LT 51+147.87							
LT	9+858	9+995	462.5				2
RT	9+858	9+989	475.0				2
LT	10+011	10+099	375.0				2

UNLESS OTHERWISE NOTED, GUARDRAIL TO BE INSTALLED ON SEPARATE CONTRACT BY OTHERS.

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	50+600.0	50+619.1	65
LT	50+630.5	50+959.1	1,141
LT	50+968.3	51+118.0	596
LT	51+149.0	51+400.0	926
RT	50+600.0	51+082.0	1,633
RT	51+091.2	51+114.0	185
RT	51+166.0	51+400.0	789

WASTE AREA #4
SEE SHEET R13

0m 50m
SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 50+600 TO STA. 51+400

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R5

Revised 12/4/2014

DITCH CHART							
ENTRANCE LT. & RT. STA. 51+147.87							
RT.	9+872	- 9+958	2' F.B. SURF	CLASS II	1.00	125	TONS
LT.	10+036	- 10+093	2' F.B. SURF	CLASS II	1.00	83	TONS
RT.	10+018	- 10+108	2' F.B. SURF	ECB	1.00	209	SQ YD
RT.	10+118	- 10+134	2' F.B. SURF	ECB	1.00	37	SQ YD
RALEIGH CEMETERY ENTRANCE							
RT.	10+820	- 10+900	SPCL. "V"	ROCK CUT	1.00	-	
LT.	10+815	- 10+920	SPCL. "V"	ROCK CUT	1.00	-	

APPROACH LT 50+600 CURVE DATA
P.I. 9+964.0199
Δ = 36°21'27.36" Lt.
R = 100.000m
T = 32.8373m
L = 63.4560m
E = 5.2535m
e = 2.0%
Runoff = SEE X-SECTIONS
Runout = SEE X-SECTIONS

APPR. STA. 9+985.214 CONSTRUCT 59ft - 59ft - 59ft P.C.I. BEAM TYPE 3 BRIDGE

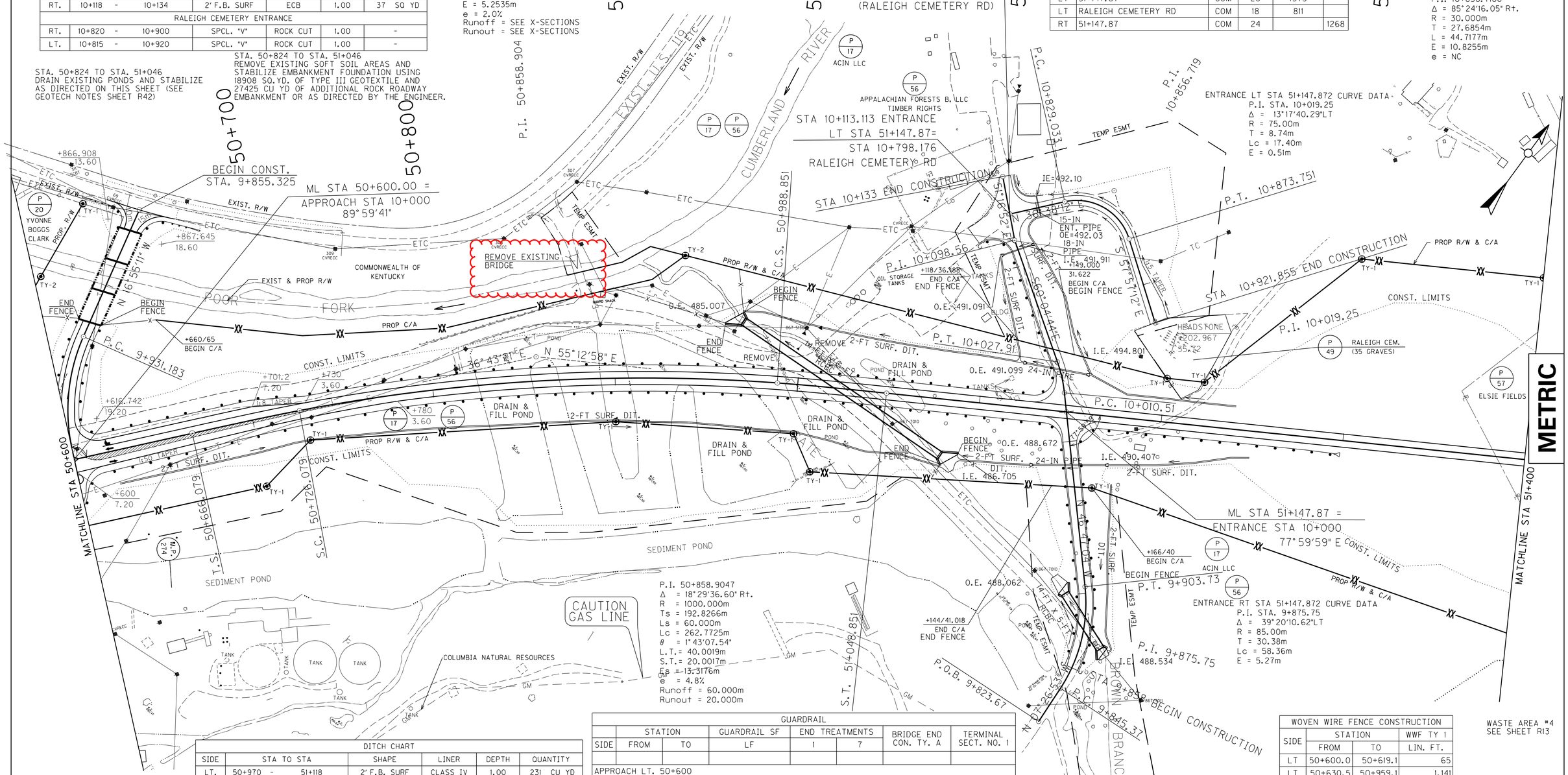
STA. 50+824 TO STA. 51+046 DRAIN EXISTING PONDS AND STABILIZE AS DIRECTED ON THIS SHEET (SEE GEOTECH NOTES SHEET R42)

STA. 50+824 TO STA. 51+046 REMOVE EXISTING SOFT SOIL AREAS AND STABILIZE EMBANKMENT FOUNDATION USING 18908 SQ.YD. OF TYPE III GEOTEXTILE AND 27425 CU YD OF ADDITIONAL ROCK ROADWAY EMBANKMENT OR AS DIRECTED BY THE ENGINEER.

ENTRANCE SUMMARY					
SIDE	STATION	TYPE	WIDTH FT	ASPHALT SY	TBB SY
LT	51+147.87	COM	20	1575	
LT	RALEIGH CEMETERY RD	COM	18	811	
RT	51+147.87	COM	24		1268

CEMETERY ENTRANCE CURVE DATA
P.I. 10+856.7186
Δ = 85°24'16.05" Rt.
R = 30.000m
T = 27.6854m
L = 44.7177m
E = 10.8255m
e = NC

ENTRANCE LT STA 51+147.872 CURVE DATA
P.I. STA. 10+019.25
Δ = 13°17'40.29"LT
R = 75.00m
T = 8.74m
Lc = 17.40m
E = 0.51m



DITCH CHART						
SIDE	STA TO STA		SHAPE	LINER	DEPTH	QUANTITY
LT.	50+970	- 51+118	2' F.B. SURF	CLASS IV	1.00	231 CU YD
LT.	51+160	- 51+250	2' F.B. SURF	CLASS IV	1.00	141 CU YD
LT.	51+250	- 51+400	NORM	ROCK	1.00	-
RT.	50+620	- 51+040	2' F.B. SURF	ECB	1.00	992 SQ YD
RT.	51+040	- 51+080	2' F.B. SURF	CLASS IV	1.00	63 CU YD
RT.	51+090	- 51+130	2' F.B. SURF	CLASS IV	1.00	63 CU YD
RT.	51+174	- 51+250	2' F.B. SURF	CLASS IV	1.00	119 CU YD
RT.	51+250	- 51+400	NORM	ROCK	1.00	-

CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN:
TYPE 1 - 11 EACH
TYPE 2 - 2 EACH

P 20 YVONNE BOGGS CLARK

GUARDRAIL							
	STATION		GUARDRAIL SF	END TREATMENTS		BRIDGE END CON. TY. A	TERMINAL SECT. NO. 1
SIDE	FROM	TO	LF	1	7		
APPROACH LT. 50+600							
LT	9+870	9+852	62.5		1	1	
LT	9+919	9+988	237.5			1	1
RT	9+861	9+871	62.5		1	1	
RT	9+920	9+993	275.0			1	1
ENTRANCE RT & LT 51+147.87							
LT	9+858	9+995	462.5				2
RT	9+858	9+989	475.0				2
LT	10+011	10+099	375.0				2

UNLESS OTHERWISE NOTED, GUARDRAIL TO BE INSTALLED ON SEPARATE CONTRACT BY OTHERS.

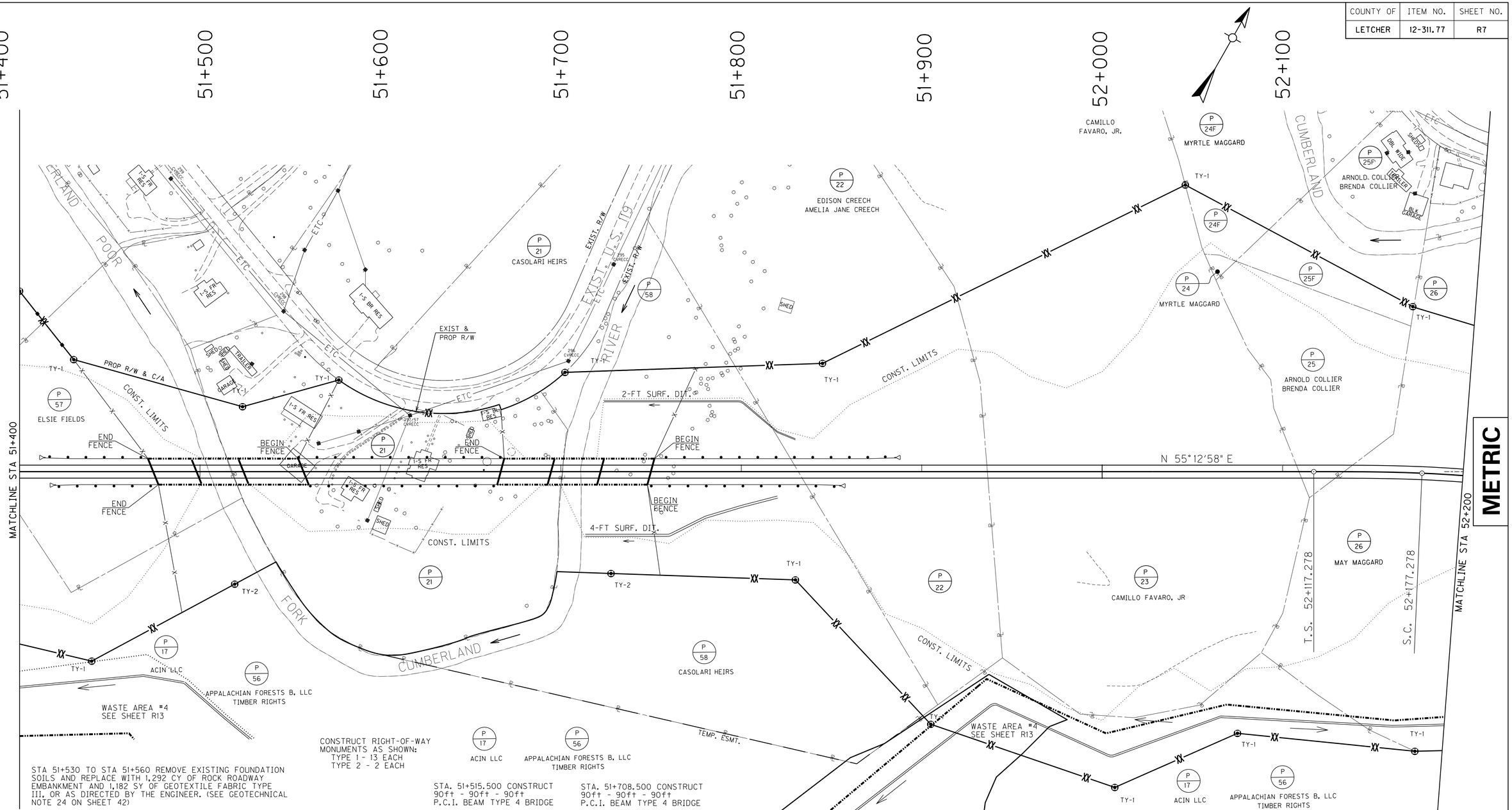
WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	50+600.0	50+619.1	65
LT	50+630.5	50+959.1	1,141
LT	50+968.3	51+118.0	596
LT	51+149.0	51+400.0	926
RT	50+600.0	51+082.0	1,633
RT	51+091.2	51+114.0	185
RT	51+166.0	51+400.0	789

WASTE AREA #4 SEE SHEET R13

0m 50m
SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 50+600 TO STA. 51+400

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R7



STA 51+530 TO STA 51+560 REMOVE EXISTING FOUNDATION SOILS AND REPLACE WITH 1,292 CY OF ROCK ROADWAY EMBANKMENT AND 1,182 SY OF GEOTEXTILE FABRIC TYPE III, OR AS DIRECTED BY THE ENGINEER. (SEE GEOTECHNICAL NOTE 24 ON SHEET 42)

CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN:
TYPE 1 - 13 EACH
TYPE 2 - 2 EACH

STA. 51+515.500 CONSTRUCT
90ft - 90ft - 90ft
P.C.I. BEAM TYPE 4 BRIDGE

STA. 51+708.500 CONSTRUCT
90ft - 90ft - 90ft
P.C.I. BEAM TYPE 4 BRIDGE

DITCH CHART						
SIDE	STA TO STA		SHAPE	LINER	DEPTH	QUANTITY
LT.	51+400	- 51+480	NORM	ROCK CUT		-
LT.	51+724	- 51+830	2' F.B. SURF	CLASS IV	1.00	166 CU YD
LT.	51+830	- 52+200	NORM	ROCK CUT		-
RT.	51+400	- 51+480	NORM	ROCK CUT		-
RT.	51+714	- 51+800	4' F.B. SURF	CLASS IV	1.00	215 CU YD
RT.	51+800	- 52+200	NORM	ROCK CUT		-

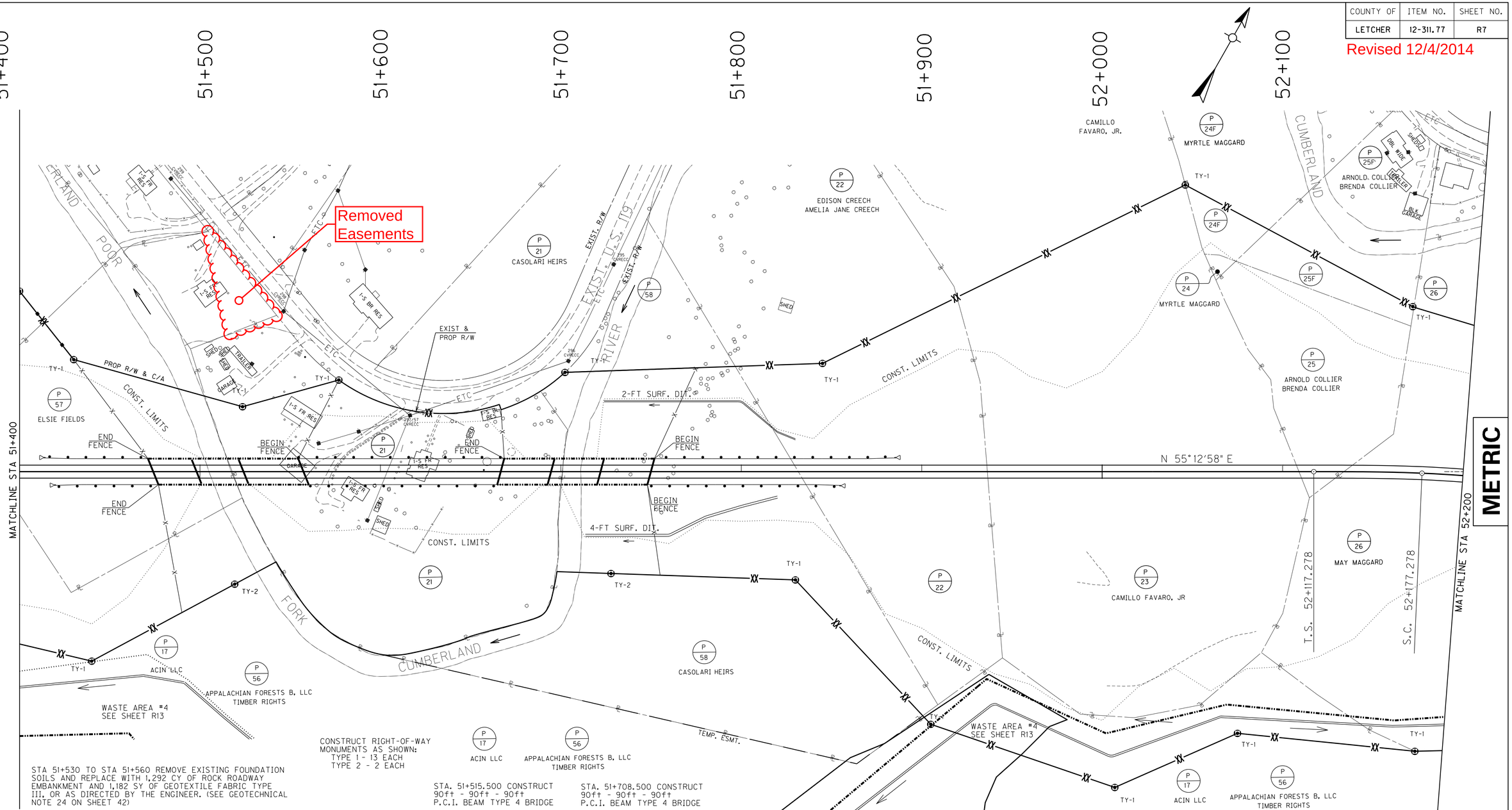
UNLESS OTHERWISE NOTED, GUARDRAIL TO BE INSTALLED ON SEPARATE CONTRACT BY OTHERS.

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	51+400.0	51+471.2	384
LT	51+554.5	51+668.6	566
LT	51+751.8	52+200.0	1,733
RT	51+400.0	51+477.0	558
RT	51+748.0	52+200.0	1,744

PLAN SHEET
U.S. 119 STA. 51+400 TO STA. 52+200

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R7

Revised 12/4/2014



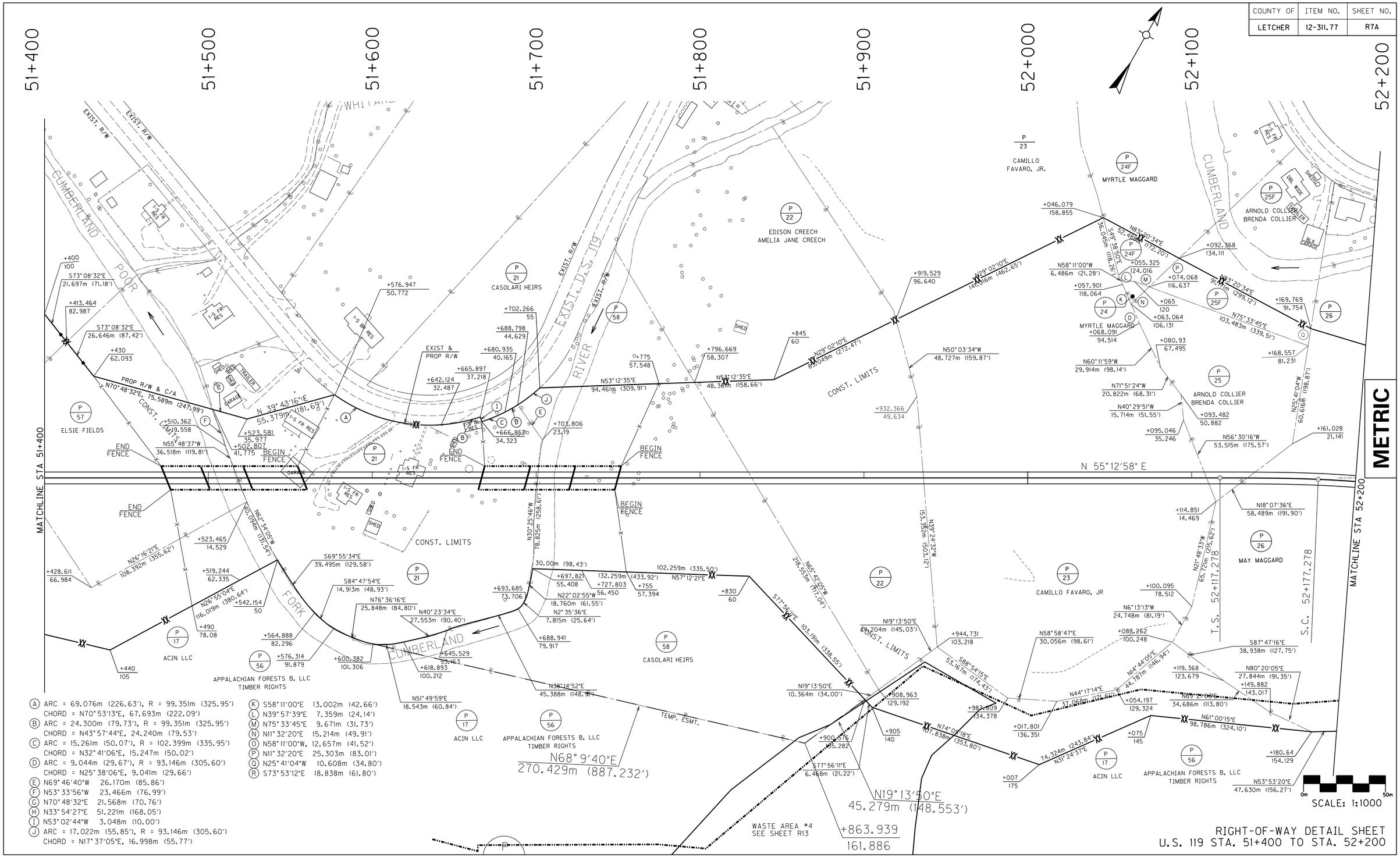
DITCH CHART						
SIDE	STA TO STA		SHAPE	LINER	DEPTH	QUANTITY
LT.	51+400	- 51+480	NORM	ROCK CUT		-
LT.	51+724	- 51+830	2' F.B. SURF	CLASS IV	1.00	166 CU YD
LT.	51+830	- 52+200	NORM	ROCK CUT		-
RT.	51+400	- 51+480	NORM	ROCK CUT		-
RT.	51+714	- 51+800	4' F.B. SURF	CLASS IV	1.00	215 CU YD
RT.	51+800	- 52+200	NORM	ROCK CUT		-

UNLESS OTHERWISE NOTED, GUARDRAIL TO BE INSTALLED ON SEPARATE CONTRACT BY OTHERS.

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	51+400.0	51+471.2	384
LT	51+554.5	51+668.6	566
LT	51+751.8	52+200.0	1,733
RT	51+400.0	51+477.0	558
RT	51+748.0	52+200.0	1,744

PLAN SHEET
U.S. 119 STA. 51+400 TO STA. 52+200

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R7A

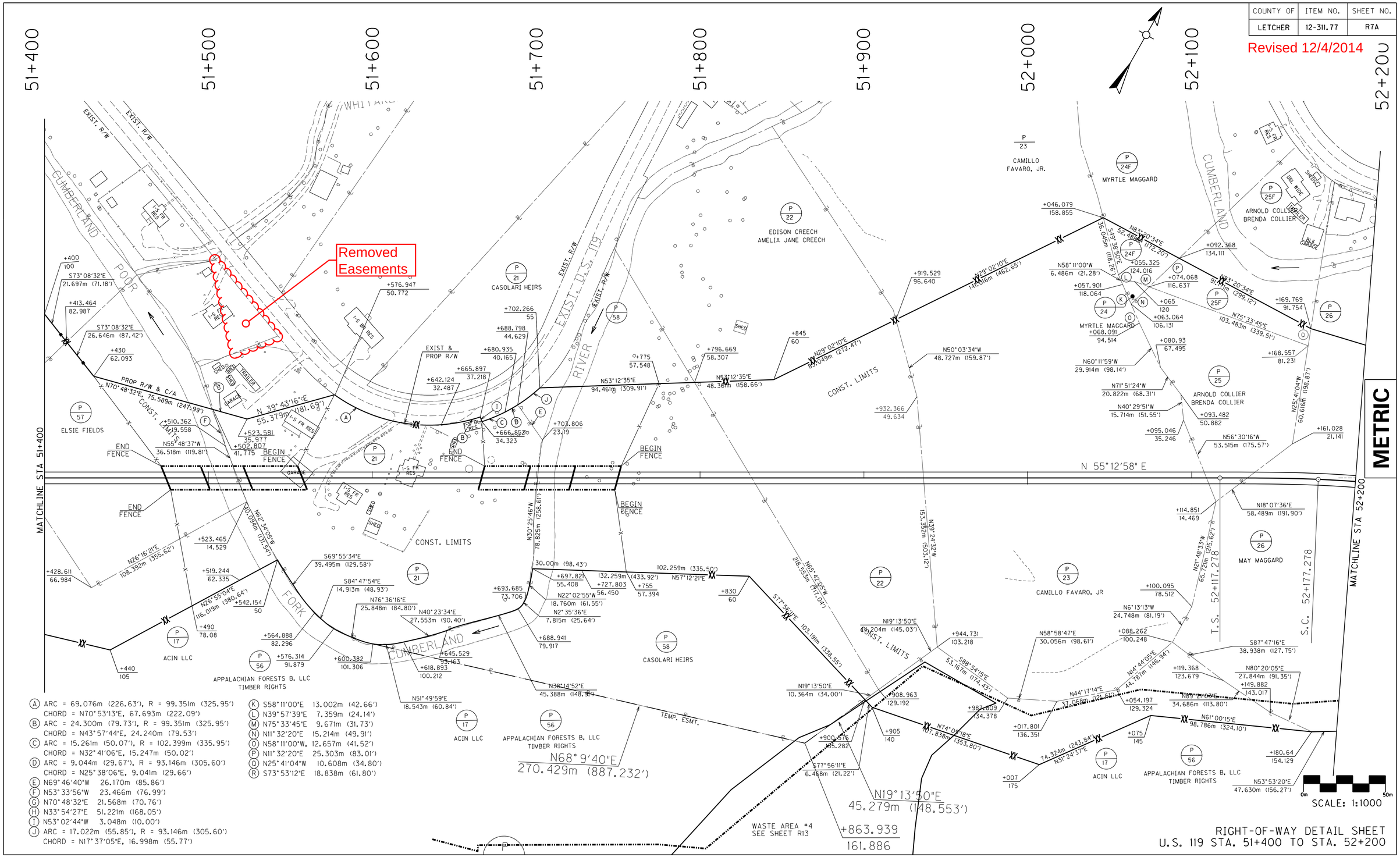


(A) ARC = 69.076m (226.63'), R = 99.351m (325.95')
CHORD = N70°53'13"E, 67.693m (222.09')
(B) ARC = 24.300m (79.73'), R = 99.351m (325.95')
CHORD = N43°57'44"E, 24.240m (79.53')
(C) ARC = 15.261m (50.07'), R = 102.399m (335.95')
CHORD = N32°41'06"E, 15.247m (50.02')
(D) ARC = 9.044m (29.67'), R = 93.146m (305.60')
CHORD = N25°38'06"E, 9.041m (29.66')
(E) N69°46'40"W 26.170m (85.86')
(F) N53°33'56"W 23.466m (76.99')
(G) N70°48'32"E 21.568m (70.76')
(H) N33°54'27"E 51.221m (168.05')
(I) N53°02'44"W 3.048m (10.00')
(J) ARC = 17.022m (55.85'), R = 93.146m (305.60')
CHORD = N17°37'05"E, 16.998m (55.77')
(K) S58°11'00"E 13.002m (42.66')
(L) N39°57'39"E 7.359m (24.14')
(M) N75°33'45"E 9.671m (31.73')
(N) N11°32'20"E 15.214m (49.91')
(O) N58°11'00"W, 12.657m (41.52')
(P) N11°32'20"E 25.303m (83.01')
(Q) N25°41'04"W 10.608m (34.80')
(R) S73°53'12"E 18.838m (61.80')

RIGHT-OF-WAY DETAIL SHEET
U.S. 119 STA. 51+400 TO STA. 52+200

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R7A

Revised 12/4/2014



(A) ARC = 69.076m (226.63'), R = 99.351m (325.95')
CHORD = N70°53'13"E, 67.693m (222.09')
(B) ARC = 24.300m (79.73'), R = 99.351m (325.95')
CHORD = N43°57'44"E, 24.240m (79.53')
(C) ARC = 15.261m (50.07'), R = 102.399m (335.95')
CHORD = N32°41'06"E, 15.247m (50.02')
(D) ARC = 9.044m (29.67'), R = 93.146m (305.60')
CHORD = N25°38'06"E, 9.041m (29.66')
(E) N69°46'40"W 26.170m (85.86')
(F) N53°33'56"W 23.466m (76.99')
(G) N70°48'32"E 21.568m (70.76')
(H) N33°54'27"E 51.221m (168.05')
(I) N53°02'44"W 3.048m (10.00')
(J) ARC = 17.022m (55.85'), R = 93.146m (305.60')
CHORD = N17°37'05"E, 16.998m (55.77')

(K) S58°11'00"E 13.002m (42.66')
(L) N39°57'39"E 7.359m (24.14')
(M) N75°33'45"E 9.671m (31.73')
(N) N11°32'20"E 15.214m (49.91')
(O) N58°11'00"W, 12.657m (41.52')
(P) N11°32'20"E 25.303m (83.01')
(Q) N25°41'04"W 10.608m (34.80')
(R) S73°53'12"E 18.838m (61.80')

RIGHT-OF-WAY DETAIL SHEET
U.S. 119 STA. 51+400 TO STA. 52+200

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R9

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION FROM	STATION TO	WWF TY 1 LIN. FT.
LT	52+200.0	52+440.0	841
LT	52+580.0	25+900.3	993
RT	52+200.0	53+000.0	2,872
RT	25+906.4	25+966.9	318

DITCH CHART					
SIDE	STA TO STA	SHAPE	LINER	DEPTH	QUANTITY
LT.	52+200 - TEMP TIE 25+580	NORM	ROCK CUT		
LT.	TEMP TIE 25+580 - 25+700	SPL	ROCK CUT		
RT.	TEMP TIE 25+700 - 25+900 52+200 - TEMP TIE 25+580	NORM	ROCK CUT		
RT.	TEMP TIE 25+540 - 25+600	SPL	SEED	1.00	
RT.	TEMP TIE 25+600 - 25+900	NORM	ROCK CUT		

FUTURE US 119 TIE
CURVE DATA
P.I. 11+902.3878
Δ = 58°15'03.40" Lt.
R = 175.0000m
T = 97.5057m
L = 177.9174m
E = 25.3306m
e = 6.0%
Runoff = 10m
Runout = 10m

TEMPORARY US 119 TIE
CURVE DATA
P.I. 25+615.9033
Δ = 39°35'35.86" Lt.
R = 675.0000m
T = 242.9703m
L = 466.4475m
E = 42.3978m
e = 6.6%
Runoff = 54m
Runout = 16m
SEE X-SECT FOR BRIDGE SUPERELEVATION

APPR. STA. 25+932.750 CONSTRUCT
61ft - 61ft - 61ft
P.C.I. BEAM TYPE 3 BRIDGE

END CONSTRUCTION US 119
TEMPORARY TIE STA 25+980

BEGIN CONSTRUCTION
US 119 TEMPORARY TIE
STA 25+372.933

US 119 MAINLINE
CURVE DATA
P.I. 52+225.2530
Δ = 12°42'31.04" Rt.
R = 700.000m
Ts = 107.9744m
Ls = 60.000m
Lc = 95.265m
θ = 2°27'19.92"
L.T.= 40.0039m
S.T.= 20.0035m
Es = 4.5426m
e = 6.3%
Runoff = 60m
Runout = 20m

FUTURE US 119 MAINLINE
CURVE DATA
P.I. 53+285.9787
Δ = 78°17'28.19" Lt.
R = 750.0000m
Ts = 640.6610m
Ls = 60.0000m
Lc = 964.8289m
θ = 2°17'30.59"
L.T.= 40.0034m
S.T.= 20.0030m
Es = 217.3205m
e = 6.0%
Runoff = 60m
Runout = 20m

ML STA 52+778.00 =
APPROACH STA 12+000
89°50'16"

NOTE:
THE CONTRACTOR IS TO STOCKPILE 1,500 CUBIC YARDS OF GRANULAR MATERIAL MEETING THE REQUIREMENTS OF "ROCK ROADBED" BETWEEN STATIONS 52+540 AND 52+580 AS DIRECTED BY THE ENGINEER. (SEE SPECIAL NOTE)

CONSTRUCT RIGHT-OF-WAY
MONUMENTS AS SHOWN:
TYPE 1 - 13 EACH
TYPE 2 - 2 EACH

METRIC

SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 52+200 TO STA. 53+000

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R9

Revised 12/4/2014

END CONSTRUCTION US 119
TEMPORARY TIE STA 25+980

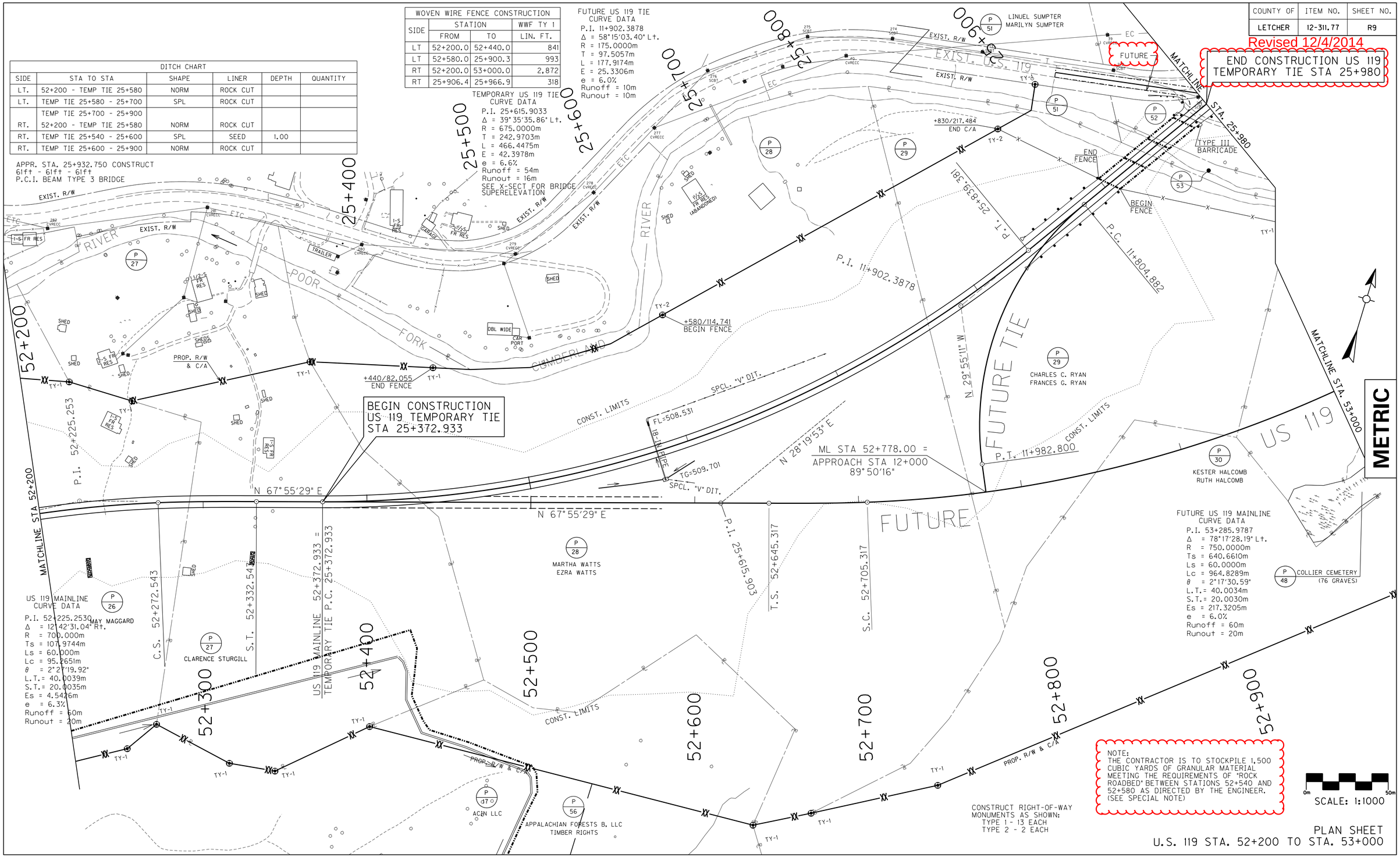
WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	52+200.0	52+440.0	841
LT	52+580.0	25+900.3	993
RT	52+200.0	53+000.0	2,872
RT	25+906.4	25+966.9	318

DITCH CHART					
SIDE	STA TO STA	SHAPE	LINER	DEPTH	QUANTITY
LT.	52+200 - TEMP TIE 25+580	NORM	ROCK CUT		
LT.	TEMP TIE 25+580 - 25+700	SPL	ROCK CUT		
RT.	TEMP TIE 25+700 - 25+900 52+200 - TEMP TIE 25+580	NORM	ROCK CUT		
RT.	TEMP TIE 25+540 - 25+600	SPL	SEED	1.00	
RT.	TEMP TIE 25+600 - 25+900	NORM	ROCK CUT		

APPR. STA. 25+932.750 CONSTRUCT
61ft - 61ft - 61ft
P.C.I. BEAM TYPE 3 BRIDGE

FUTURE US 119 TIE
CURVE DATA
P.I. 11+902.3878
Δ = 58°15'03.40" Lt.
R = 175.0000m
T = 97.5057m
L = 177.9174m
E = 25.3306m
e = 6.0%
Runoff = 10m
Runout = 10m

TEMPORARY US 119 TIE
CURVE DATA
P.I. 25+615.9033
Δ = 39°35'35.86" Lt.
R = 675.0000m
T = 242.9703m
L = 466.4475m
E = 42.3978m
e = 6.6%
Runoff = 54m
Runout = 16m
SEE X-SECT FOR BRIDGE
SUPERELEVATION



US 119 MAINLINE
CURVE DATA
P.I. 52+225.253
Δ = 12°42'31.04" Rt.
R = 700.000m
Ts = 107.9744m
Ls = 60.000m
Lc = 95.265m
θ = 2°27'19.92"
L.T.= 40.0039m
S.T.= 20.0035m
Es = 4.5426m
e = 6.3%
Runoff = 60m
Runout = 20m

FUTURE US 119 MAINLINE
CURVE DATA
P.I. 53+285.9787
Δ = 78°17'28.19" Lt.
R = 750.0000m
Ts = 640.6610m
Ls = 60.0000m
Lc = 964.8289m
θ = 2°17'30.59"
L.T.= 40.0034m
S.T.= 20.0030m
Es = 217.3205m
e = 6.0%
Runoff = 60m
Runout = 20m

NOTE:
THE CONTRACTOR IS TO STOCKPILE 1,500 CUBIC YARDS OF GRANULAR MATERIAL MEETING THE REQUIREMENTS OF "ROCK ROADBED" BETWEEN STATIONS 52+540 AND 52+580 AS DIRECTED BY THE ENGINEER. (SEE SPECIAL NOTE)

CONSTRUCT RIGHT-OF-WAY
MONUMENTS AS SHOWN:
TYPE 1 - 13 EACH
TYPE 2 - 2 EACH

PLAN SHEET
U.S. 119 STA. 52+200 TO STA. 53+000

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R9A

(A) N38°43'19"E, 23.120m (75.85')
(B) N13°42'10"W, 16.093m (52.80')
(C) N35°18'12"W, 13.619m (44.68')
(D) N35°18'12"W, 15.693m (51.49')
(E) N76°17'50"E, 6.850m (22.47')
(F) ARC = 100.339m (329.20'), R = 126.269m (414.27')
CHORD = N55°28'55"E, 97.720m (320.60')
(G) S88°20'17"E, 66.515m (218.23')
(H) S88°55'04"E, 75.737m (248.48')
(I) N83°29'41"E, 35.685m (117.08')
(J) N79°21'14"E, 28.525m (93.59')

(1) STA 52+926.608, 189.496m LT
(2) STA. 52+928.550, 203.039m LT

END CONSTRUCTION US 119
TEMPORARY TIE STA 25+980

END CONSTRUCTION STA. 52+372.933
BEGIN TEMP. US 119 TIE STA. 25+372.933

METRIC

SCALE: 1:1000

RIGHT-OF-WAY DETAIL SHEET
U.S. 119 STA. 52+200 TO STA. 53+000

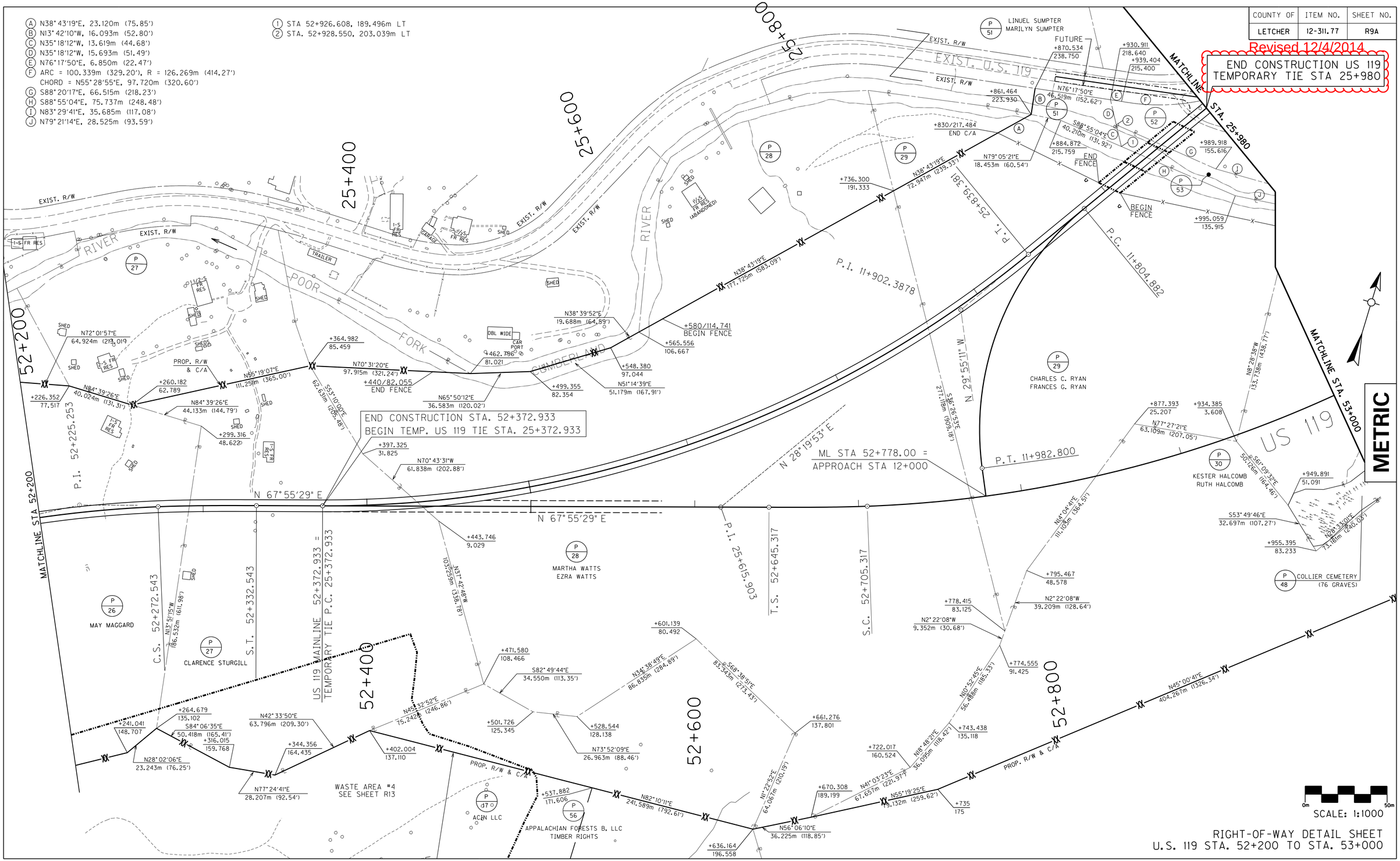
COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R9A

Revised 12/4/2014

END CONSTRUCTION US 119
TEMPORARY TIE STA 25+980

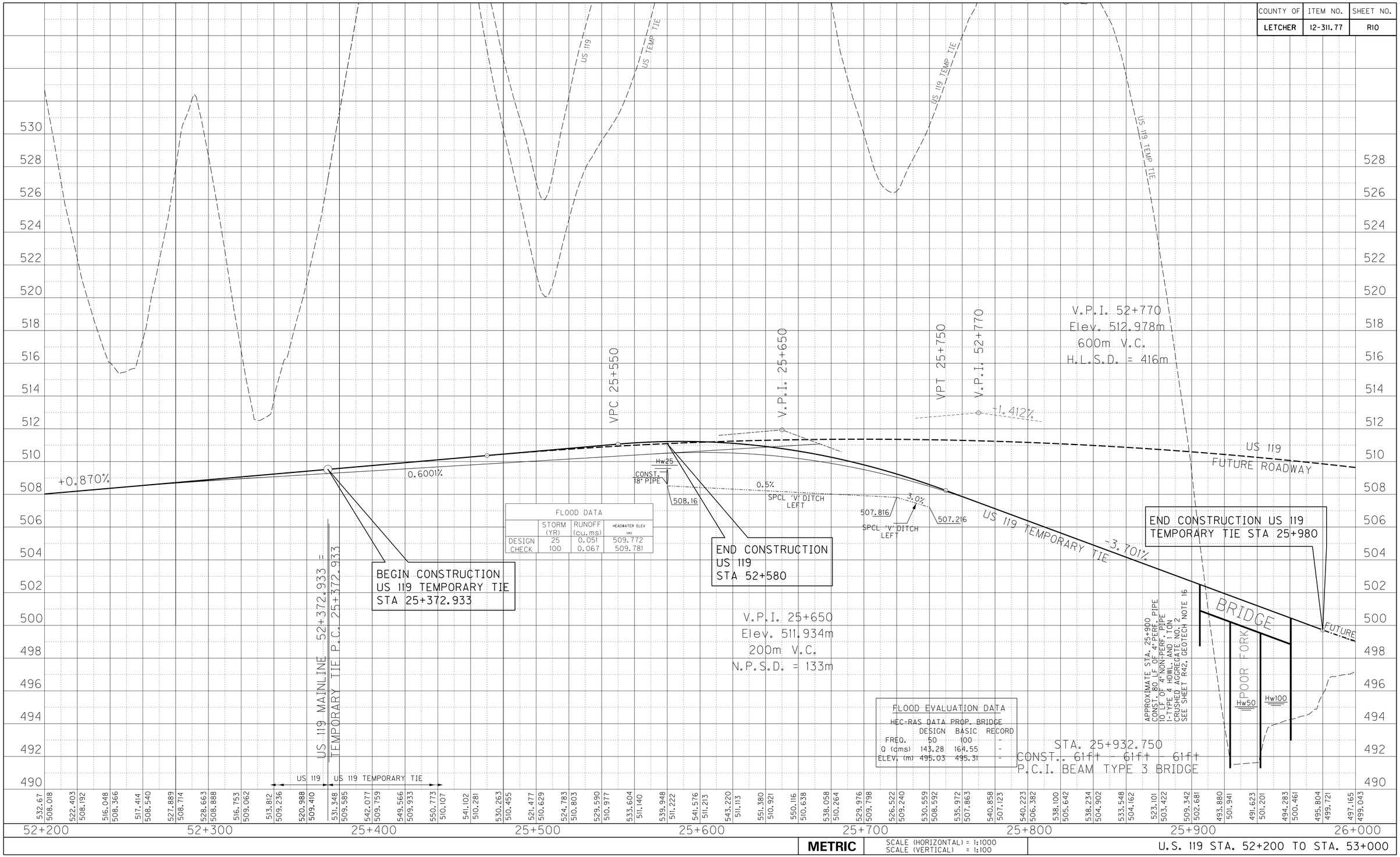
(A) N38°43'19"E, 23.120m (75.85')
(B) N13°42'10"W, 16.093m (52.80')
(C) N35°18'12"W, 13.619m (44.68')
(D) N35°18'12"W, 15.693m (51.49')
(E) N76°17'50"E, 6.850m (22.47')
(F) ARC = 100.339m (329.20'), R = 126.269m (414.27')
CHORD = N55°28'55"E, 97.720m (320.60')
(G) S88°20'17"E, 66.515m (218.23')
(H) S88°55'04"E, 75.737m (248.48')
(I) N83°29'41"E, 35.685m (117.08')
(J) N79°21'14"E, 28.525m (93.59')

(1) STA 52+926.608, 189.496m LT
(2) STA. 52+928.550, 203.039m LT



RIGHT-OF-WAY DETAIL SHEET
U.S. 119 STA. 52+200 TO STA. 53+000

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R10



FLOOD DATA

	STORM (YR)	RUNOFF (cu.ms)	HEADWATER ELEV (m)
DESIGN	25	0.051	509.772
CHECK	100	0.067	509.781

FLOOD EVALUATION DATA

HEC-RAS DATA PROP. BRIDGE

	DESIGN	BASIC	RECORD
FREQ.	50	100	-
Q (cms)	143.28	164.55	-
ELEV. (m)	495.03	495.31	-

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

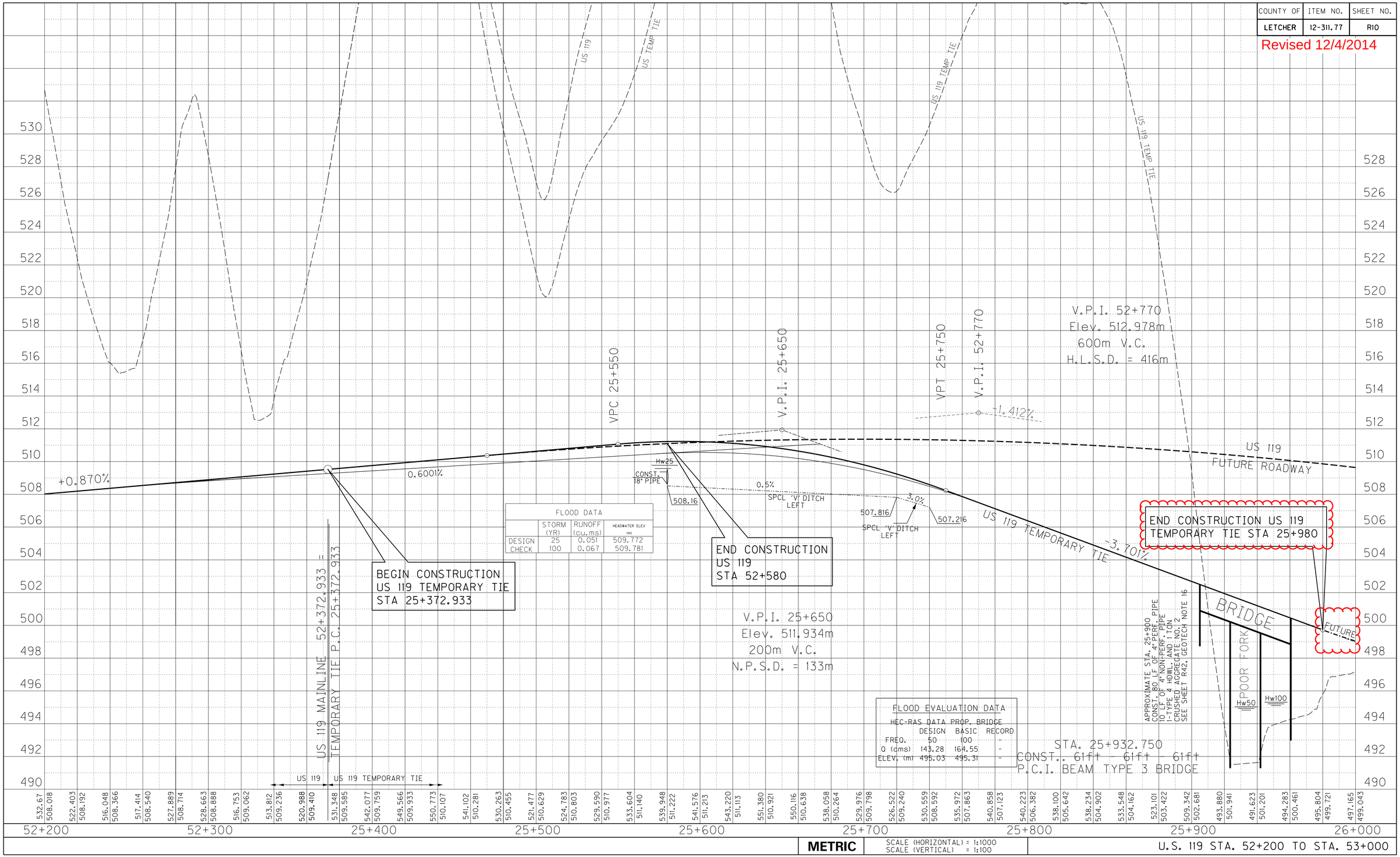
METRIC | SCALE (HORIZONTAL) = 1:1000 SCALE (VERTICAL) = 1:100 | U.S. 119 STA. 52+200 TO STA. 53+000

$$DGN$$

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R10

Revised 12/4/2014



FLOOD DATA

	STORM (YR)	RUNOFF (cu.ms)	HEADWATER ELEV (m)
DESIGN	25	0.051	509.772
CHECK	100	0.067	509.781

FLOOD EVALUATION DATA

HEC-RAS DATA PROP. BRIDGE

	DESIGN	BASIC	RECORD
FREQ.	50	100	-
Q (cms)	143.28	164.55	-
ELEV. (m)	495.03	495.31	-

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

METRIC | SCALE (HORIZONTAL) = 1:1000 | SCALE (VERTICAL) = 1:100

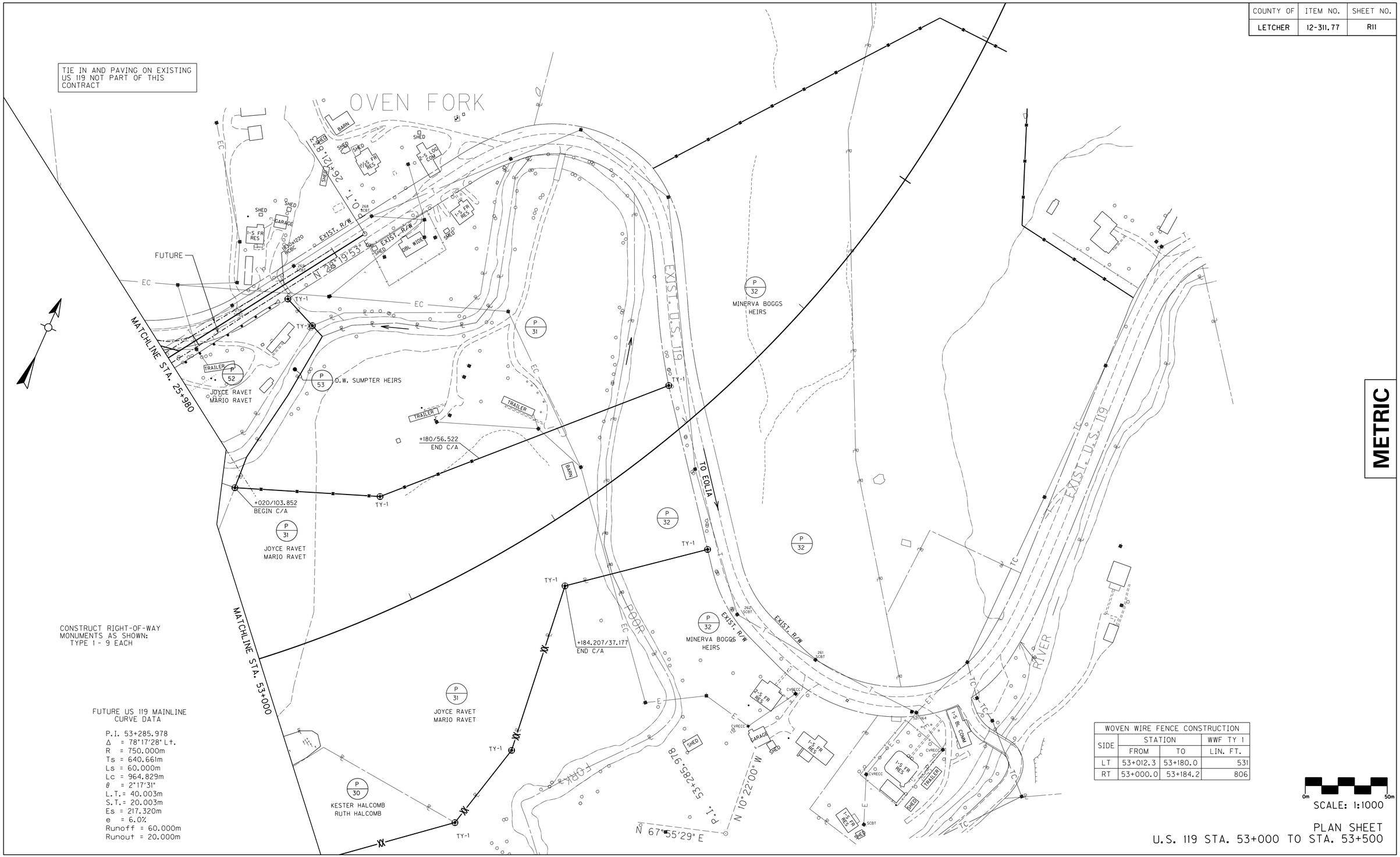
U.S. 119 STA. 52+200 TO STA. 53+000

$$DGN$$

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R11

TIE IN AND PAVING ON EXISTING US 119 NOT PART OF THIS CONTRACT



CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN:
TYPE 1 - 9 EACH

FUTURE US 119 MAINLINE CURVE DATA

P.I. 53+285.978
Δ = 78°17'28" Lt.
R = 750.000m
Ts = 640.661m
Ls = 60.000m
Lc = 964.829m
θ = 2°17'31"
L.T.= 40.003m
S.T.= 20.003m
Es = 217.320m
e = 6.0%
Runoff = 60.000m
Runout = 20.000m

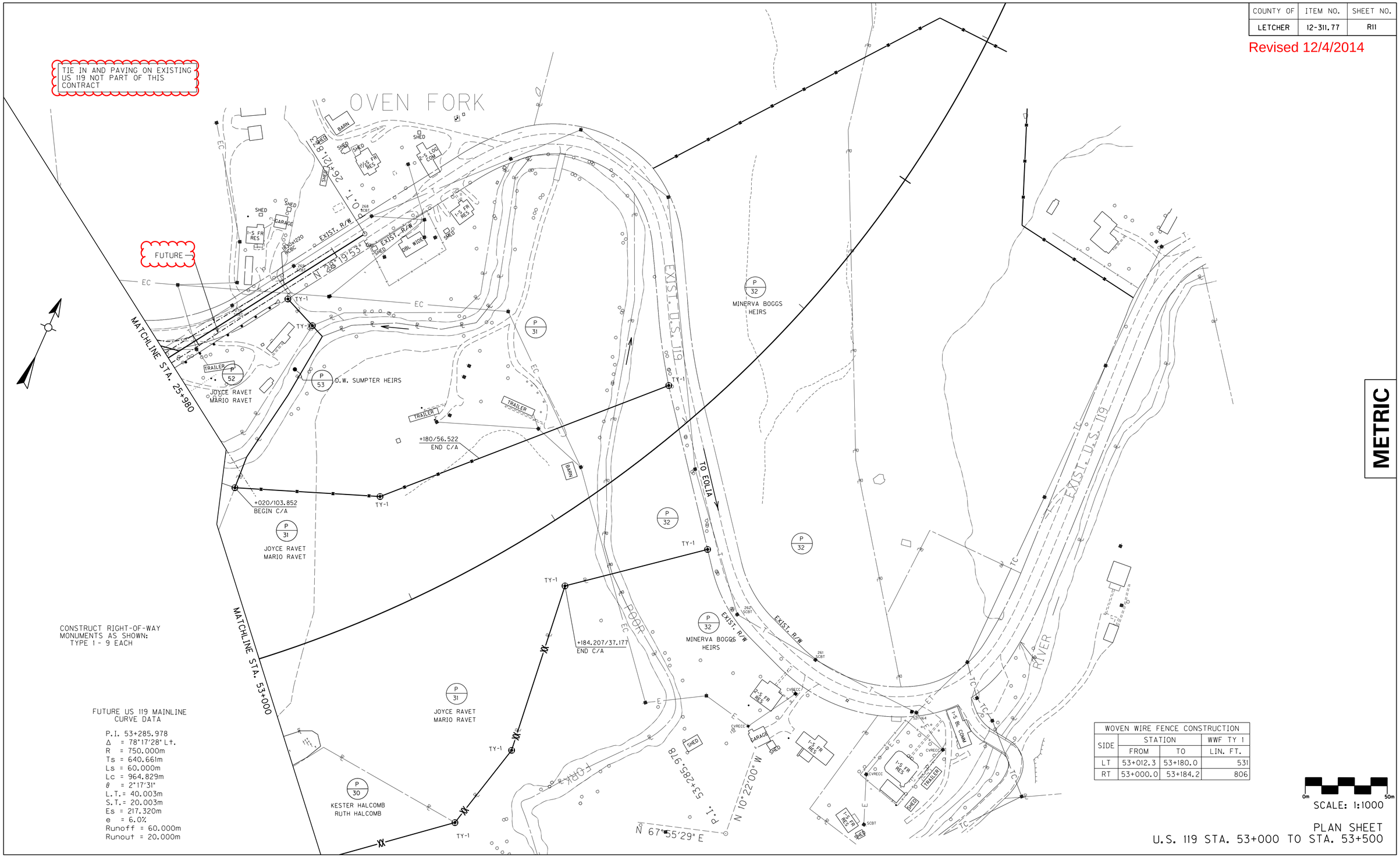
WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	53+012.3	53+180.0	531
RT	53+000.0	53+184.2	806

0m 50m
SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 53+000 TO STA. 53+500

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R11

Revised 12/4/2014



CONSTRUCT RIGHT-OF-WAY MONUMENTS AS SHOWN:
TYPE 1 - 9 EACH

FUTURE US 119 MAINLINE CURVE DATA

P.I. 53+285.978
Δ = 78°17'28" Lt.
R = 750.000m
Ts = 640.661m
Ls = 60.000m
Lc = 964.829m
θ = 2°17'31"
L.T.= 40.003m
S.T.= 20.003m
Es = 217.320m
e = 6.0%
Runoff = 60.000m
Runout = 20.000m

WOVEN WIRE FENCE CONSTRUCTION			
SIDE	STATION		WWF TY 1
	FROM	TO	LIN. FT.
LT	53+012.3	53+180.0	531
RT	53+000.0	53+184.2	806

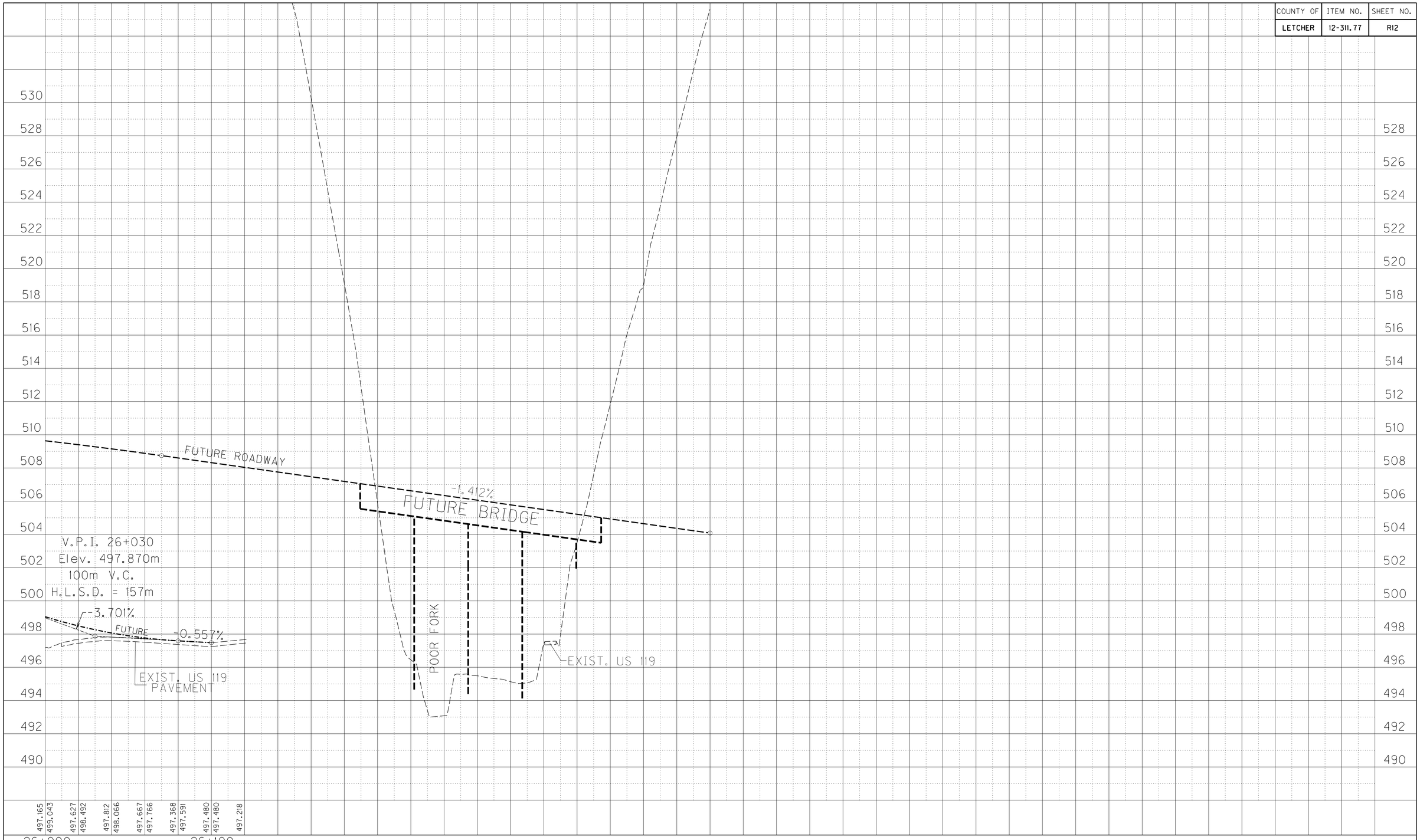
METRIC

0m 50m
SCALE: 1:1000

PLAN SHEET
U.S. 119 STA. 53+000 TO STA. 53+500

$$DGN$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R12



PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

$$DATE$$

METRIC

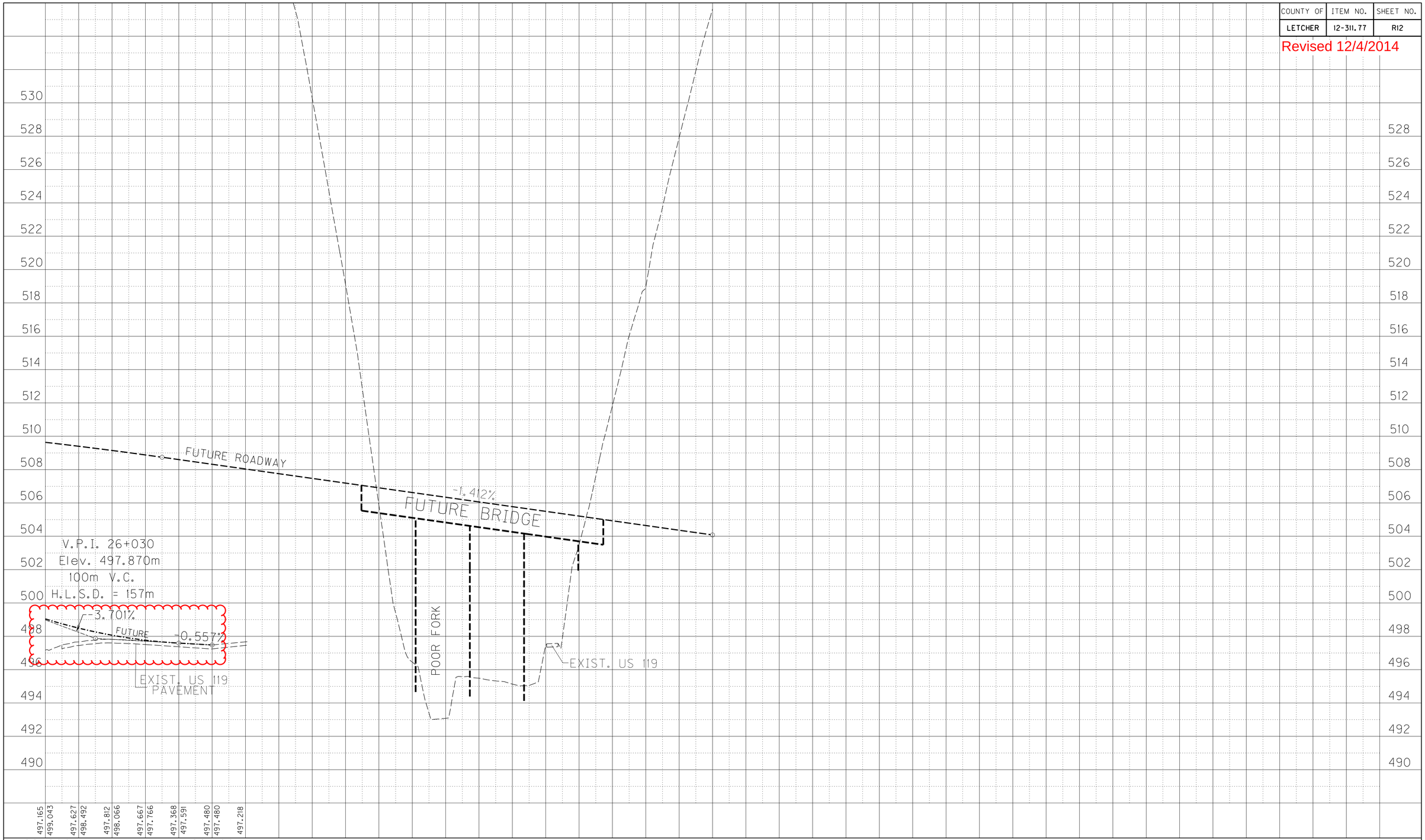
SCALE (HORIZONTAL) = 1:1000
SCALE (VERTICAL) = 1:100

U.S. 119 STA. 25+980 TO STA. 26+100

$$DGN$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R12

Revised 12/4/2014

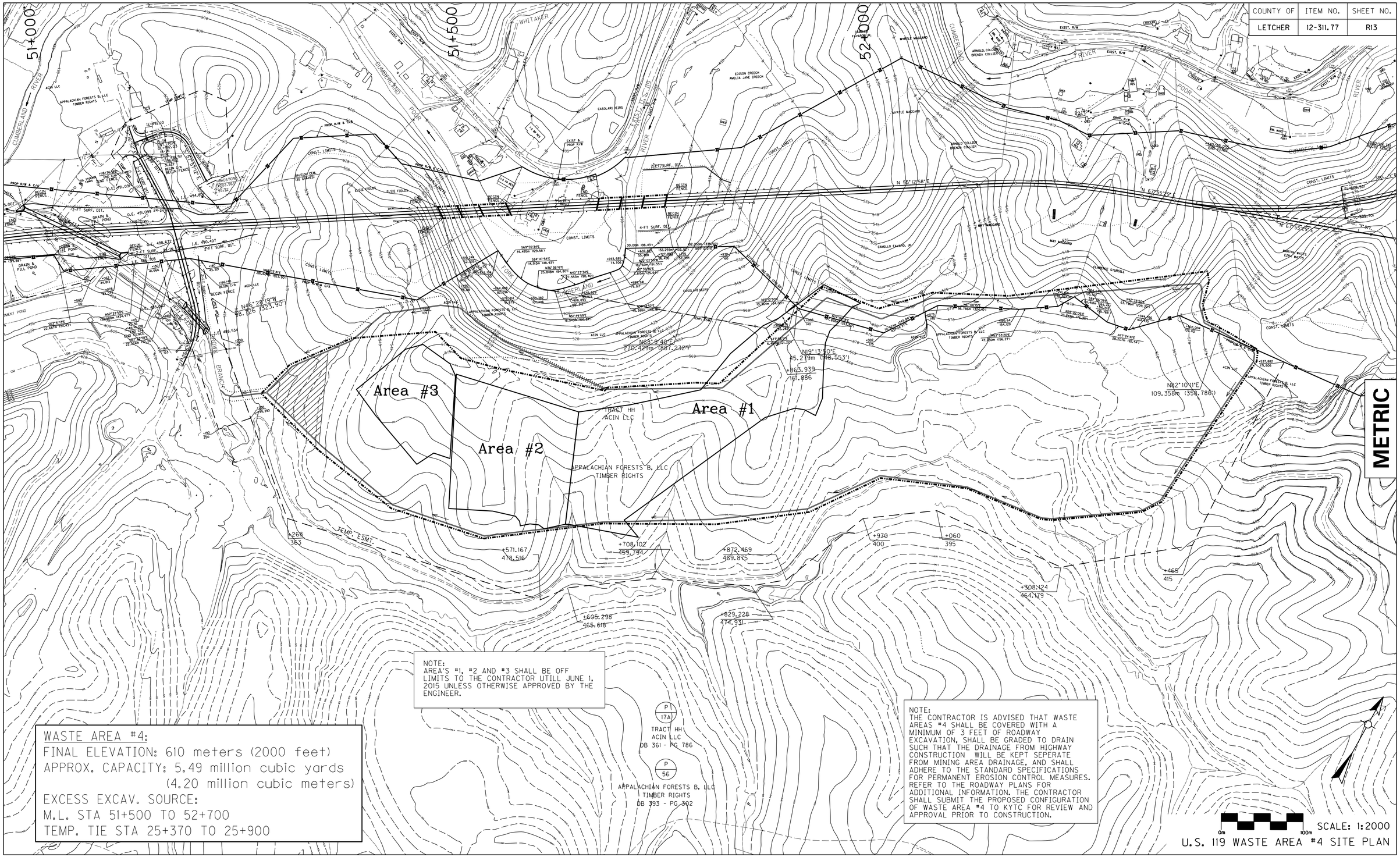


PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

$$DATE$$

METRIC	SCALE (HORIZONTAL) = 1:1000 SCALE (VERTICAL) = 1:100	U.S. 119 STA. 25+980 TO STA. 26+100

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R13

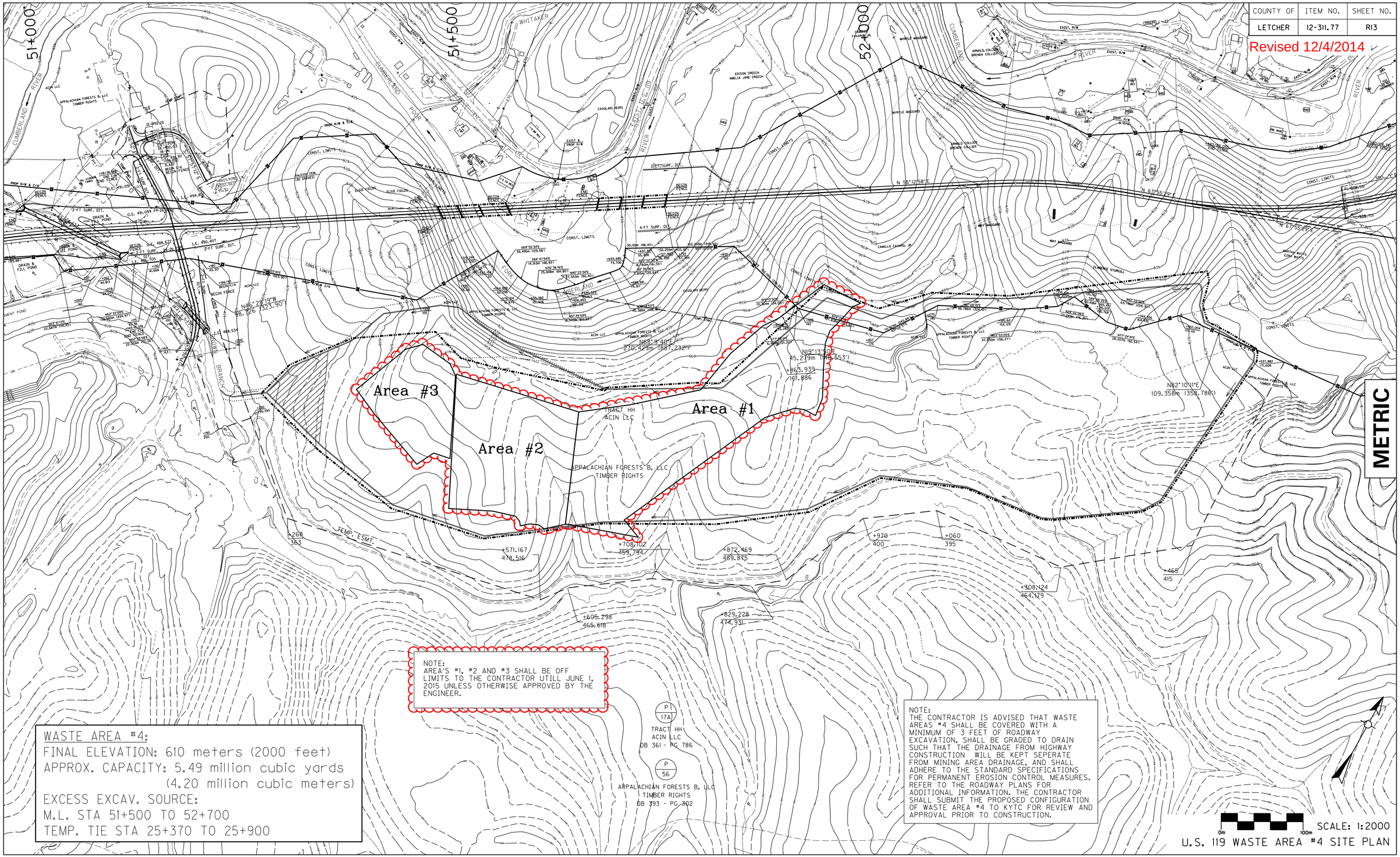


U.S. 119 WASTE AREA #4 SITE PLAN

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R13

Revised 12/4/2014

METRIC



NOTE:
AREA'S #1, #2 AND #3 SHALL BE OFF LIMITS TO THE CONTRACTOR UTILL JUNE 1, 2015 UNLESS OTHERWISE APPROVED BY THE ENGINEER.

NOTE:
THE CONTRACTOR IS ADVISED THAT WASTE AREAS #4 SHALL BE COVERED WITH A MINIMUM OF 3 FEET OF ROADWAY EXCAVATION, SHALL BE GRADED TO DRAIN SUCH THAT THE DRAINAGE FROM HIGHWAY CONSTRUCTION WILL BE KEPT SEPERATE FROM MINING AREA DRAINAGE, AND SHALL ADHERE TO THE STANDARD SPECIFICATIONS FOR PERMANENT EROSION CONTROL MEASURES. REFER TO THE ROADWAY PLANS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT THE PROPOSED CONFIGURATION OF WASTE AREA #4 TO KYTC FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

WASTE AREA #4:
FINAL ELEVATION: 610 meters (2000 feet)
APPROX. CAPACITY: 5.49 million cubic yards
(4.20 million cubic meters)
EXCESS EXCAV. SOURCE:
M.L. STA 51+500 TO 52+700
TEMP. TIE STA 25+370 TO 25+900

U.S. 119 WASTE AREA #4 SITE PLAN

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R27

SPECIAL NOTES

BLASTING OPERATIONS
During blasting operations, traffic may be halted for a maximum of twenty minutes per hour to allow execution of the shot and allow for removal of rock fragments and debris. Traffic stoppage will not be permitted between the hours of 6:30 A.M. and 8:30 A.M. or 3:00 P.M. and 5:30 P.M.

TRAFFIC STOPPAGE
Traffic may be halted for a maximum of twenty minutes per hour. Traffic stoppage will not be permitted between the hours of 6:30 A.M. and 8:30 A.M. or 3:00 P.M. and 5:30 P.M.

LANE WIDTHS
The contractor shall maintain a two-lane traveled way with a minimum lane width of 10 feet. However, during working hours, one-lane traffic may be allowed at the discretion of the engineer, provided adequate traffic control is in place at the location.

PAVEMENT EDGE DROP-OFFS
Difference in Elevation for Travel Lanes
A pavement edge that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1.5 inches. This may be increased to 2 inches for low speed situations. Warning signs shall be placed in advance and throughout the drop-off area when drop-offs are greater than 0.5 inches. Modifications will be as directed by the engineer.

Pavement Drop-Offs
Pavement edges that traffic is not expected to cross, shall be treated as follows; or, as directed by the engineer:

Less than 1/2 inch - No protection required.

1/2 to 2 inches - Warning signs shall be placed in advance and throughout the drop-off area.

2 to 4 inches - Plastic drums, vertical panels, or barricades shall be placed every 50 feet for speeds less than 50 miles per hour and every 100 feet for speeds of 50 miles per hour and greater. Cones may be used in place of plastic drums, vertical panels, and barricades during daylight hours. Spacing for tapers shall be in accordance with the Manual on Uniform Traffic Control Devices.

4 inches and Greater - Positive separation needed or wedge with 3:1 or flatter slope. If there is 8 feet or more distance between the edge of pavement and drop-off, plastic drums, vertical panels or barricades may be used. If concrete barriers are used, special reflective devices or steady burn lights shall be used for overnight installations.

For temporary conditions, drop-offs 4 inches and greater may be protected with plastic drums, vertical panels, or barricades for short distances during daylight hours while work is being done in the drop-off area.

Payment will be allowed for DGA material used for wedging.

REMOVAL OF PAVEMENT MARKINGS
Pavement markings shall be removed by either an abrasive or burning process to the satisfaction of the engineer. If the abrasive method is used, the area affected is to be coated with black (or more precisely, a color similar to that of the adjacent pavement surface) traffic paint. Painting of existing markings with bituminous or other materials to obliterate the markings shall not be allowed.

GENERAL NOTES

All traffic control devices shall comply with the current Standard Drawings and the current Manual on Uniform Traffic Control Devices.

Reasonable means of ingress and egress shall be maintained to all properties within the project limits at all times. The contractor will keep access available to the contractor for Section 3B to existing US 119 between the bridges from Sta. 50+229 to Sta. 50+350.

Phasing Notes

Phase I

Place barricades at begin and end construction locations. Place all construction signs. When the construction of the approach left of Sta. 50+600 begins, close northbound shoulder of existing US 119 at Approach Road at Sta. 9+855 using - Shoulder Closure - (TTC-135) and construct new bridge and approaches to existing pavement. Construct mainline of proposed US 119. Maintain access at all times to local residences, cemeteries, and Coal Company. (See Sht. R28 for Temporary Entrances)

Phase II

Construct tie in of Approach Road at Sta. 9+855 using temporary traffic control items. Provide adequate drop-offs to reopen shoulder and mainline traffic. Open proposed US 119 to traffic and close northbound shoulder of existing US 119 at existing bridge. Remove existing bridge.

METRIC

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

MAINTENANCE OF TRAFFIC - NOTES

Revised 12/4/2014

SPECIAL NOTES

BLASTING OPERATIONS
During blasting operations, traffic may be halted for a maximum of twenty minutes per hour to allow execution of the shot and allow for removal of rock fragments and debris. Traffic stoppage will not be permitted between the hours of 6:30 A.M. and 8:30 A.M. or 3:00 P.M. and 5:30 P.M.

TRAFFIC STOPPAGE
Traffic may be halted for a maximum of twenty minutes per hour. Traffic stoppage will not be permitted between the hours of 6:30 A.M. and 8:30 A.M. or 3:00 P.M. and 5:30 P.M.

LANE WIDTHS
The contractor shall maintain a two-lane traveled way with a minimum lane width of 10 feet. However, during working hours, one-lane traffic may be allowed at the discretion of the engineer, provided adequate traffic control is in place at the location.

PAVEMENT EDGE DROP-OFFS
Difference in Elevation for Travel Lanes
A pavement edge that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1.5 inches. This may be increased to 2 inches for low speed situations. Warning signs shall be placed in advance and throughout the drop-off area when drop-offs are greater than 0.5 inches. Modifications will be as directed by the engineer.

Pavement Drop-Offs
Pavement edges that traffic is not expected to cross, shall be treated as follows; or, as directed by the engineer:

Less than 1/2 inch - No protection required.

1/2 to 2 inches - Warning signs shall be placed in advance and throughout the drop-off area.

2 to 4 inches - Plastic drums, vertical panels, or barricades shall be placed every 50 feet for speeds less than 50 miles per hour and every 100 feet for speeds of 50 miles per hour and greater. Cones may be used in place of plastic drums, vertical panels, and barricades during daylight hours. Spacing for tapers shall be in accordance with the Manual on Uniform Traffic Control Devices.

4 inches and Greater - Positive separation needed or wedge with 3:1 or flatter slope. If there is 3 feet or more distance between the edge of pavement and drop-off, plastic drums, vertical panels or barricades may be used. If concrete barriers are used, special reflective devices or steady burn lights shall be used for overnight installations.

For temporary conditions, drop-offs 4 inches and greater may be protected with plastic drums, vertical panels, or barricades for short distances during daylight hours while work is being done in the drop-off area.

Payment will be allowed for DGA material used for wedging.

REMOVAL OF PAVEMENT MARKINGS
Pavement markings shall be removed by either an abrasive or burning process to the satisfaction of the engineer. If the abrasive method is used, the area affected is to be coated with black (or more precisely, a color similar to that of the adjacent pavement surface) traffic paint. Painting of existing markings with bituminous or other materials to obliterate the markings shall not be allowed.

GENERAL NOTES

All traffic control devices shall comply with the current Standard Drawings and the current Manual on Uniform Traffic Control Devices.

Reasonable means of ingress and egress shall be maintained to all properties within the project limits at all times. The contractor will keep access available to the contractor for Section 3B to existing US 119 between the bridges from Sta. 50+229 to Sta. 50+350.

Phasing Notes

Phase I

Place barricades at begin and end construction locations. Place all construction signs. When the construction of the approach left of Sta. 50+600 begins, close northbound shoulder of existing US 119 at Approach Road at Sta. 9+855 using - Shoulder Closure - (TTC-135) and construct new bridge and approaches to existing pavement. Construct mainline of proposed US 119. Maintain access at all times to local residences, cemeteries, and Coal Company. (See Sht. R28 for Temporary Entrances)

Phase II

Construct tie in of Approach Road at Sta. 9+855 using temporary traffic control items. Provide adequate drop-offs to reopen shoulder and mainline traffic. Open proposed US 119 to traffic and close northbound shoulder of existing US 119 at existing bridge. Remove existing bridge.

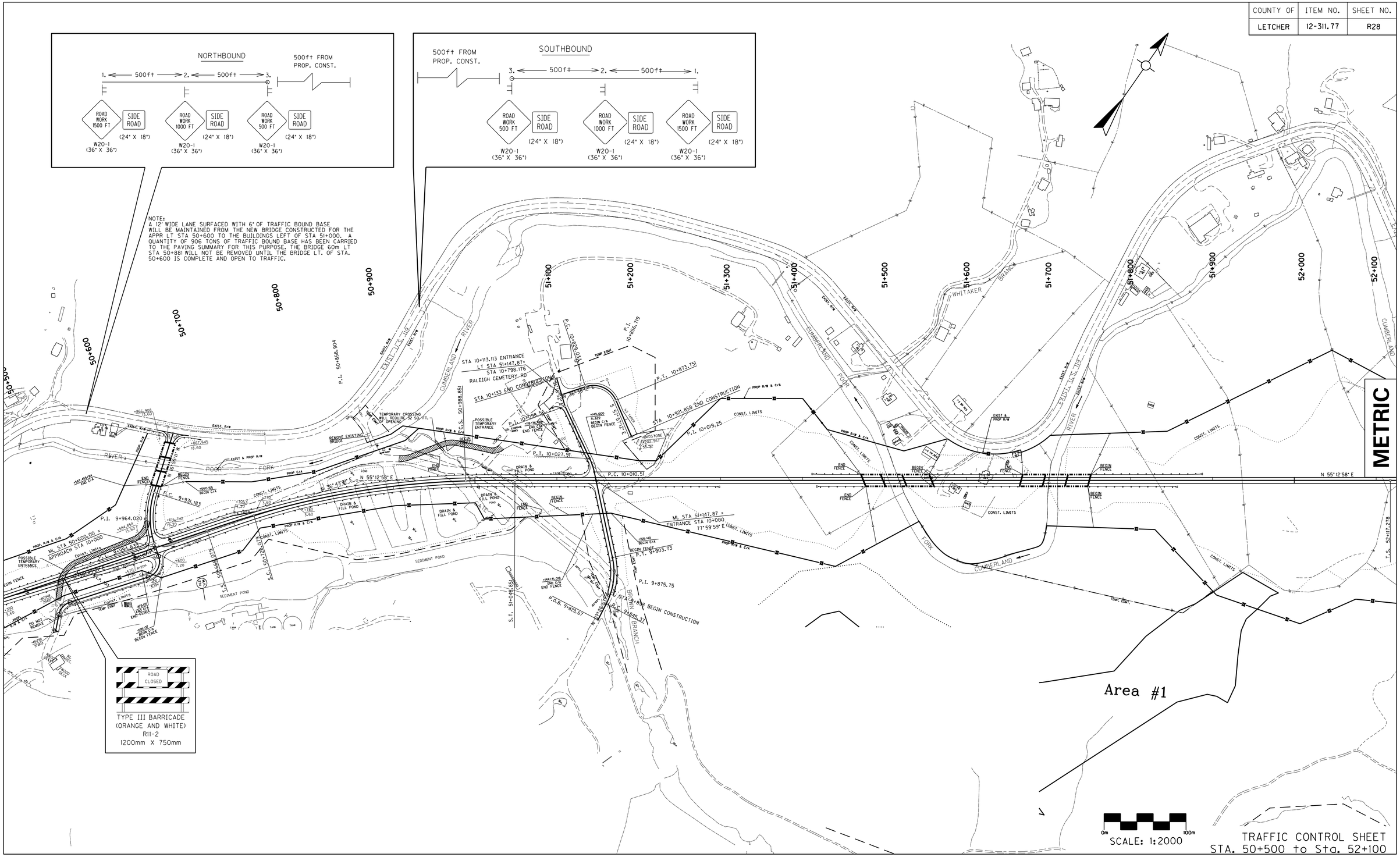
PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

METRIC

MAINTENANCE OF TRAFFIC - NOTES

$$PRF$$
$$TIME$$

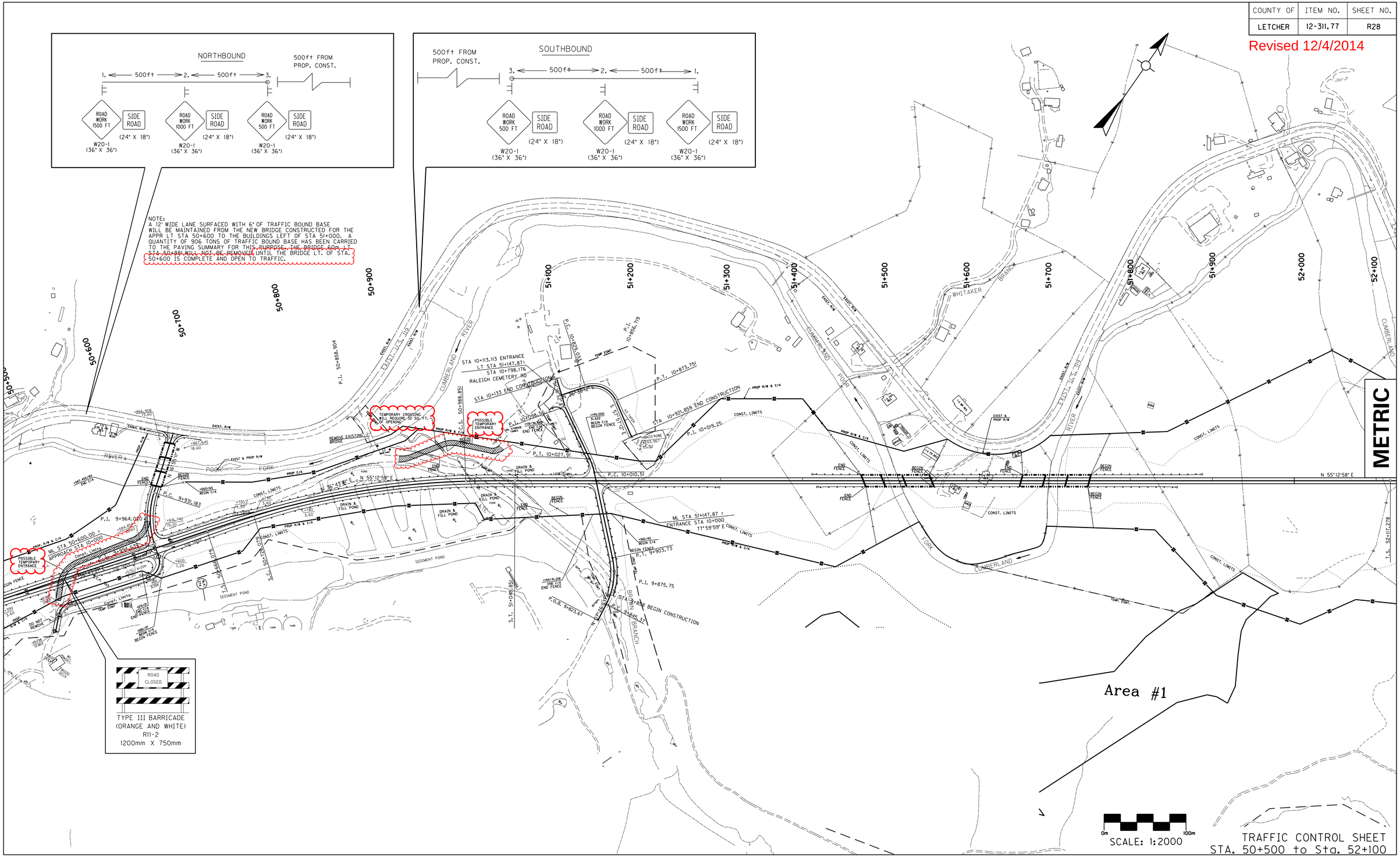
COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R28



TRAFFIC CONTROL SHEET
STA. 50+500 to Sta. 52+100

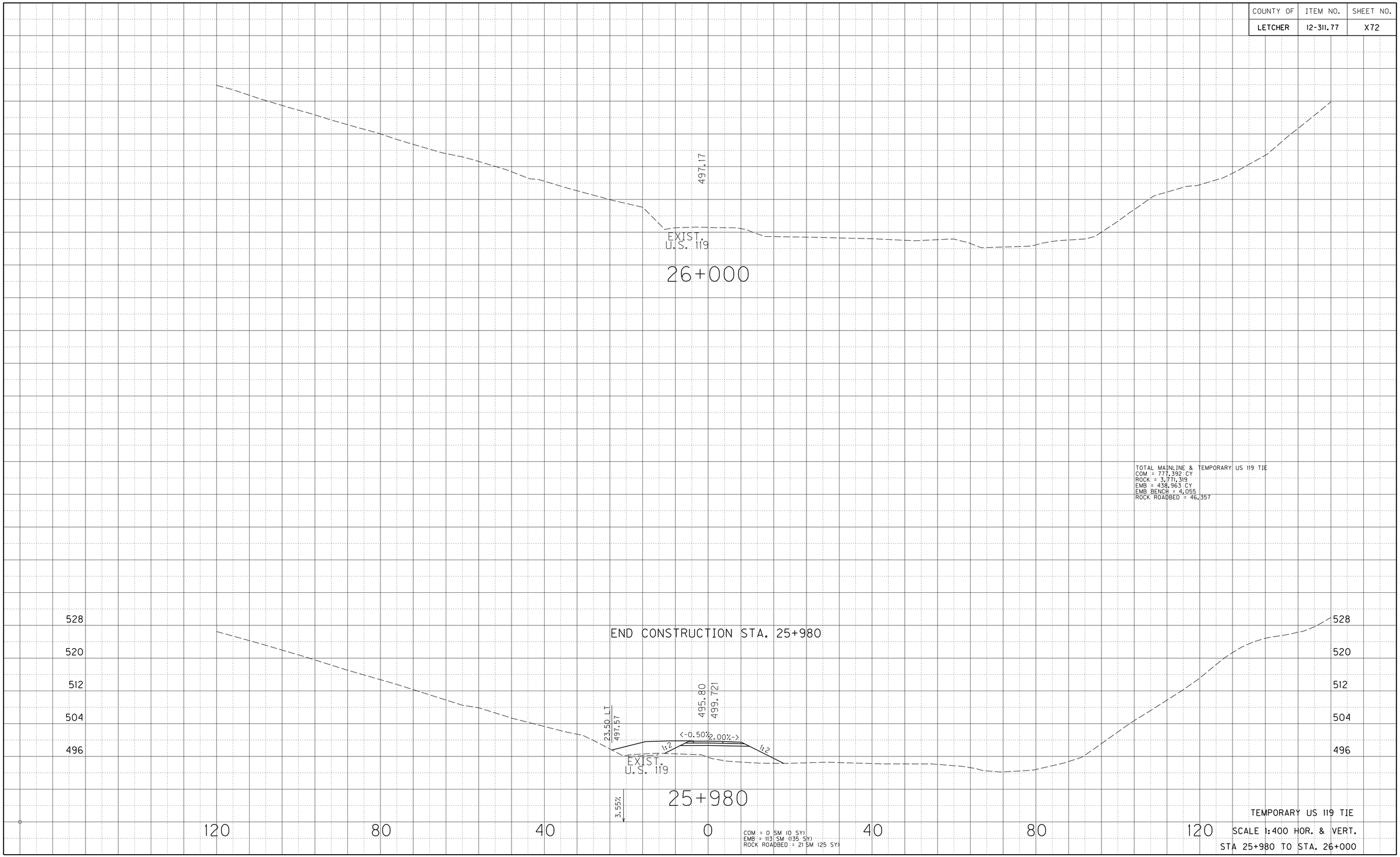
COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	R28

Revised 12/4/2014



TRAFFIC CONTROL SHEET
STA. 50+500 to Sta. 52+100

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X72



TEMPORARY US 119 TIE

SCALE 1:400 HOR. & VERT.

STA 25+980 TO STA. 26+000

PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

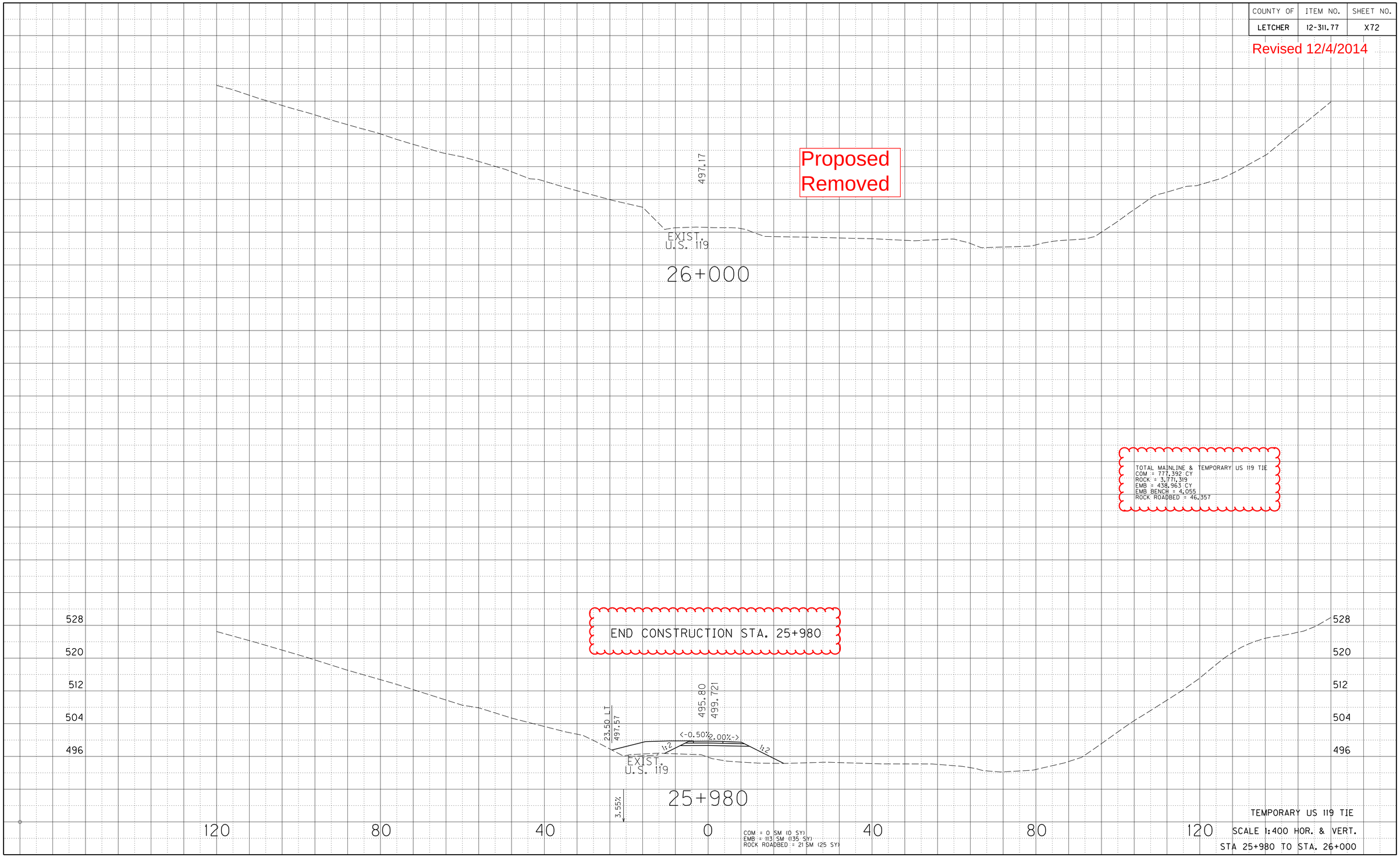
APPROVED BY _____ DATE _____

$$DGN$$

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X72

Revised 12/4/2014



TEMPORARY US 119 TIE

SCALE 1:400 HOR. & VERT.

STA 25+980 TO STA. 26+000

PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

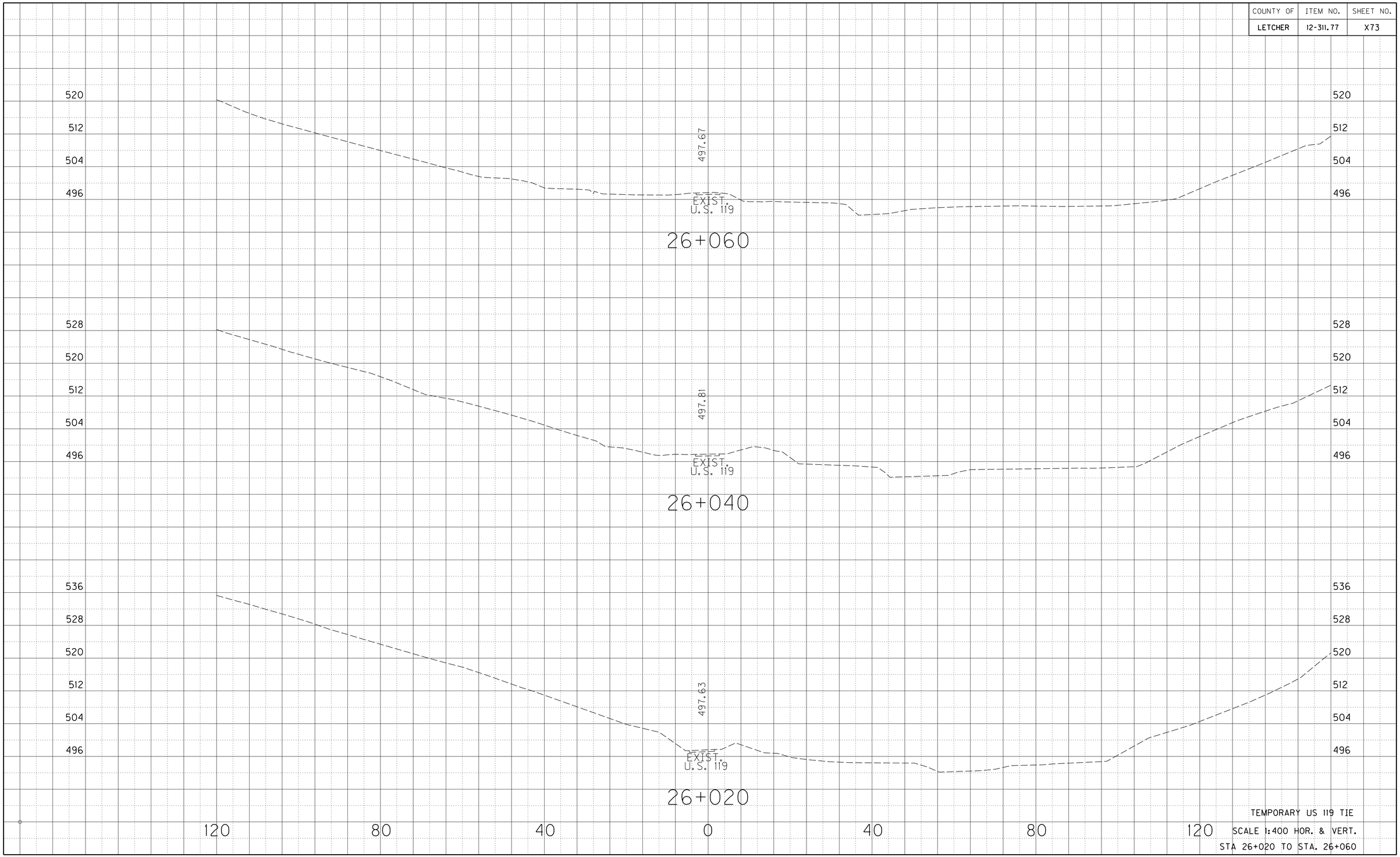
APPROVED BY _____ DATE _____

$$DGN$$

$$DATE$$

$$DGN$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X73



TEMPORARY US 119 TIE

SCALE 1:400 HOR. & VERT.

STA 26+020 TO STA. 26+060

PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

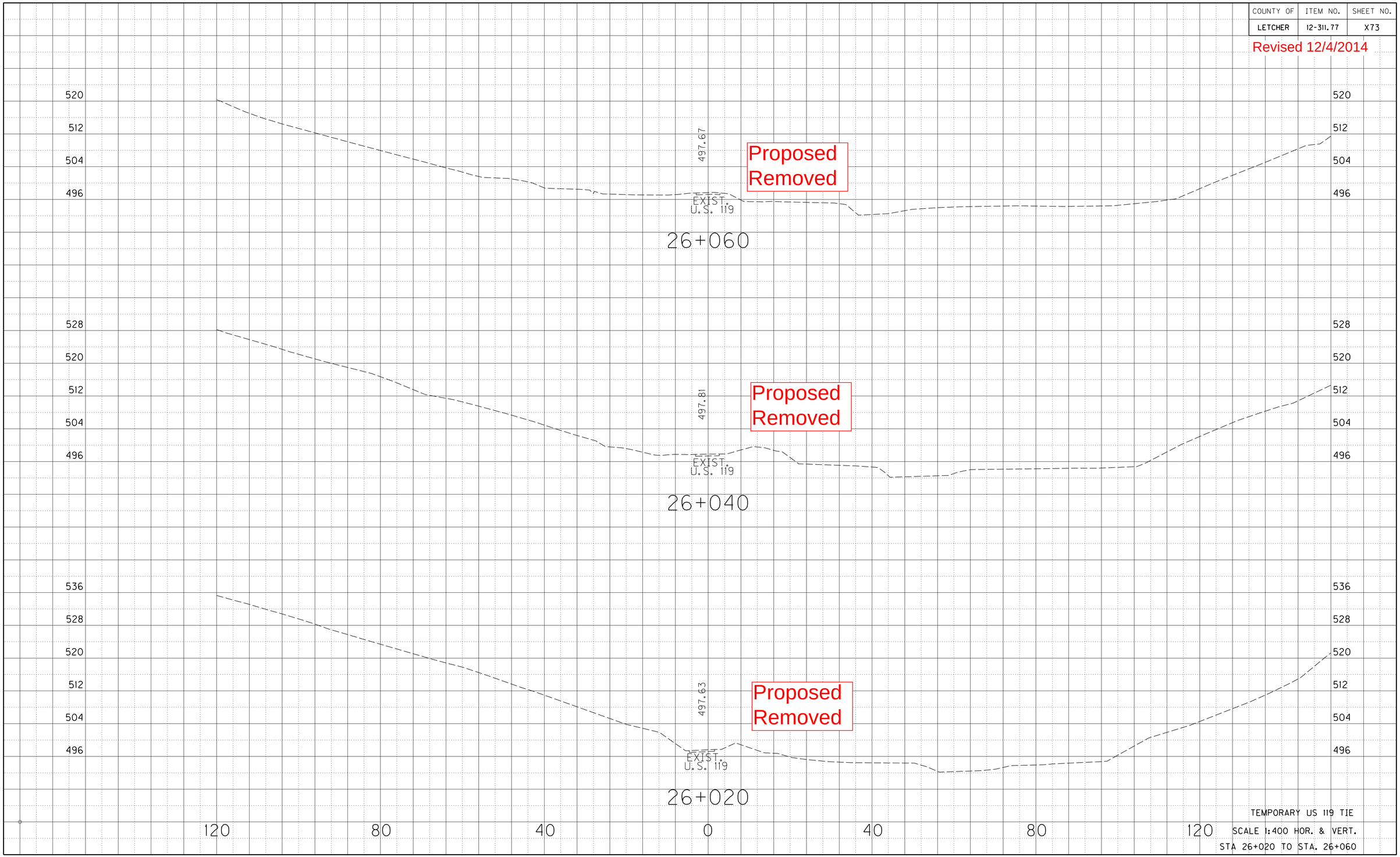
APPROVED BY _____ DATE _____

$$DATE$$

$$DGN$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X73

Revised 12/4/2014



TEMPORARY US 119 TIE

SCALE 1:400 HOR. & VERT.

STA 26+020 TO STA. 26+060

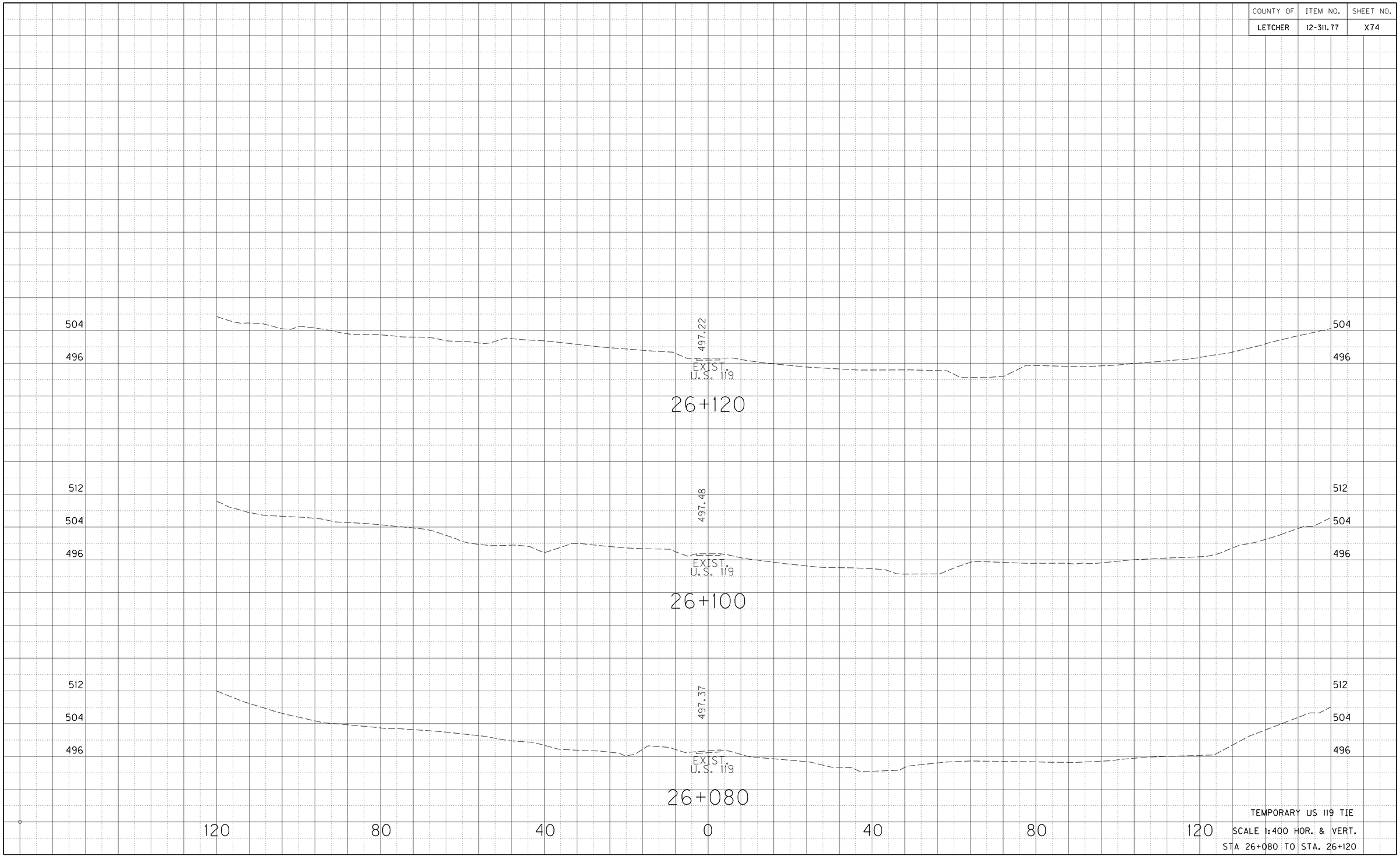
PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

APPROVED BY _____ DATE _____

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X74



TEMPORARY US 119 TIE

SCALE 1:400 HOR. & VERT.

STA 26+080 TO STA. 26+120

PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

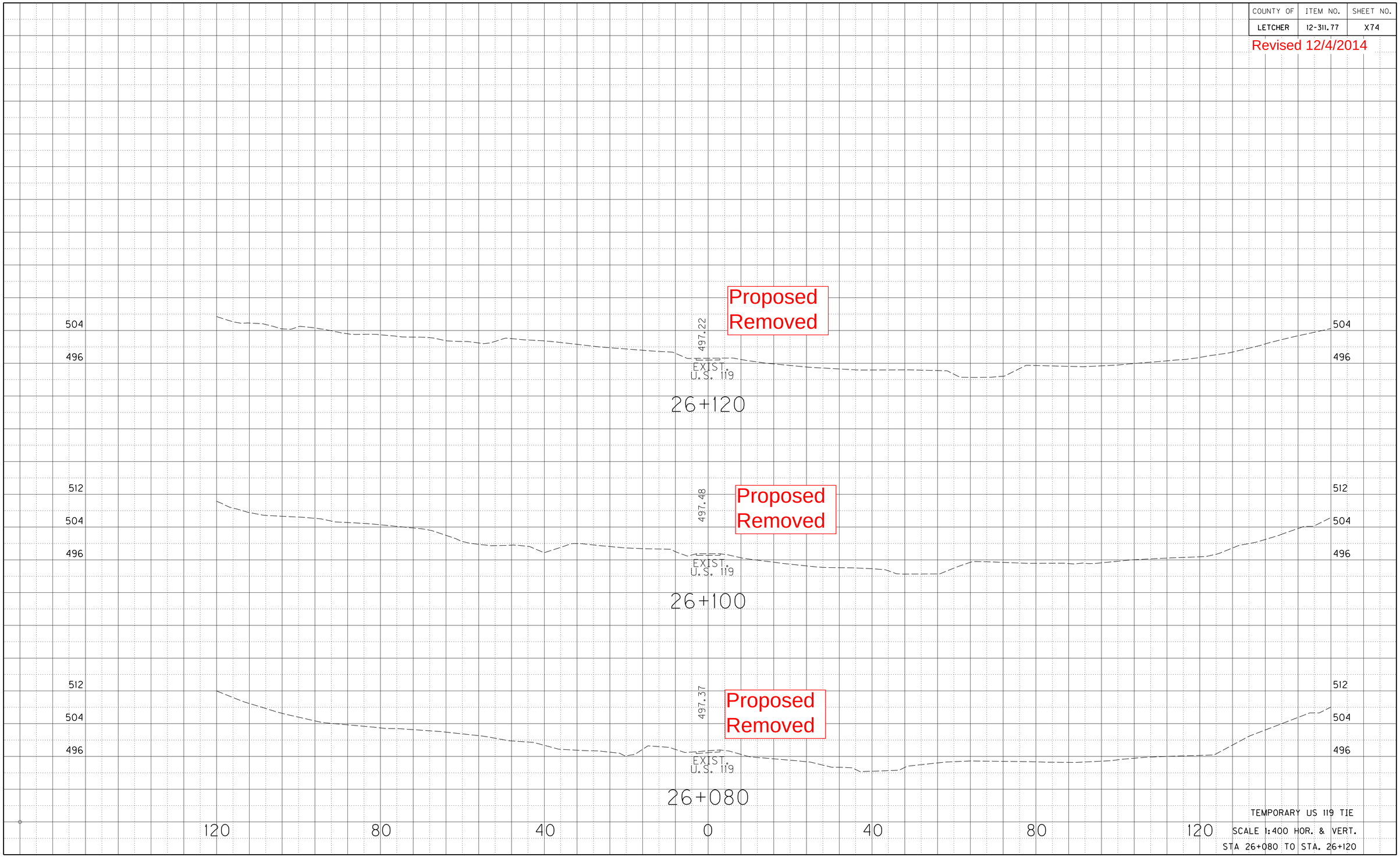
APPROVED BY _____ DATE _____

$$DGN$$

$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X74

Revised 12/4/2014



TEMPORARY US 119 TIE

SCALE 1:400 HOR. & VERT.

STA 26+080 TO STA. 26+120

PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

APPROVED BY _____ DATE _____

$$DGN$$

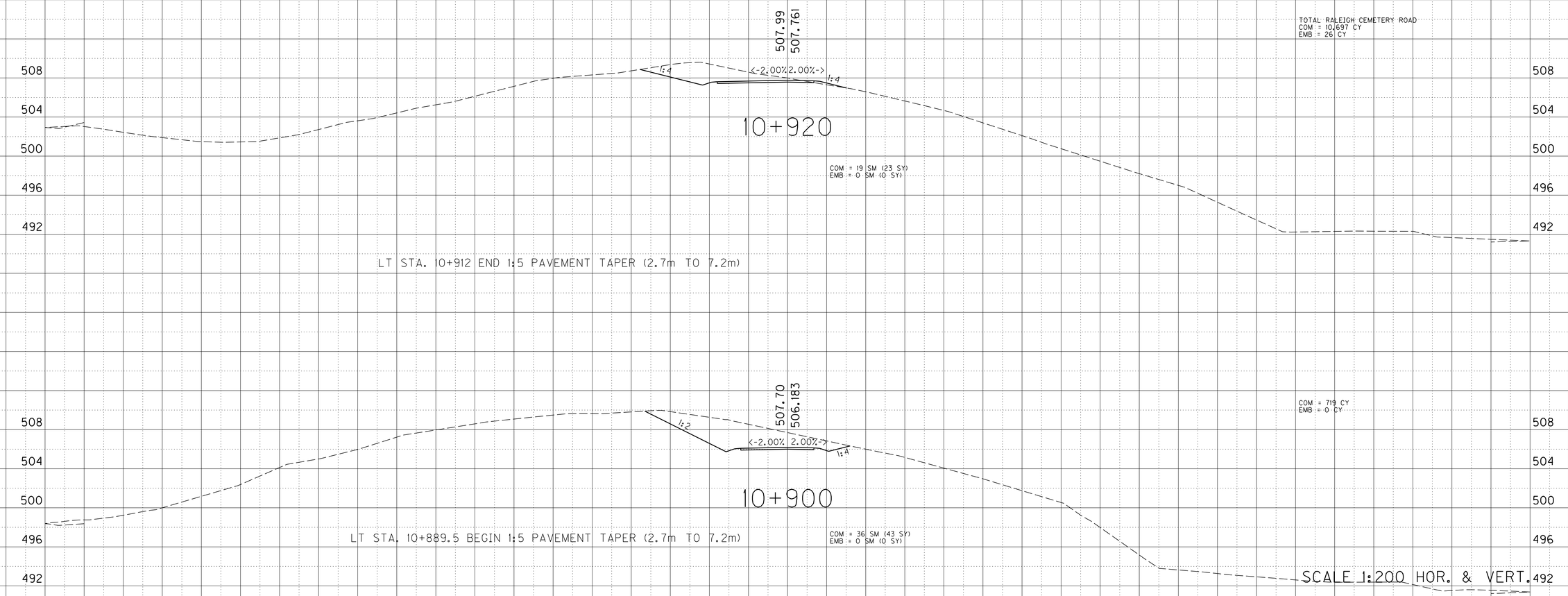
$$DATE$$

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X86

TOTAL PROJECT
COM = 788,781 CY
ROCK = 3,771,319 CY
EMB = 465,946 CY
EMB BENCH = 4,055 CY
ROCK ROADBED = 47,195 CY

STA 10+921.855 END CONSTRUCTION

TOTAL RALEIGH CEMETERY ROAD
COM = 10,697 CY
EMB = 26 CY



COM = 719 CY
EMB = 0 CY

SCALE 1:200 HOR. & VERT.

RALEIGH CEMETERY ENTRANCE
STA 10+900 to STA 10+920

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

$$DGN$$

$$DATE$$

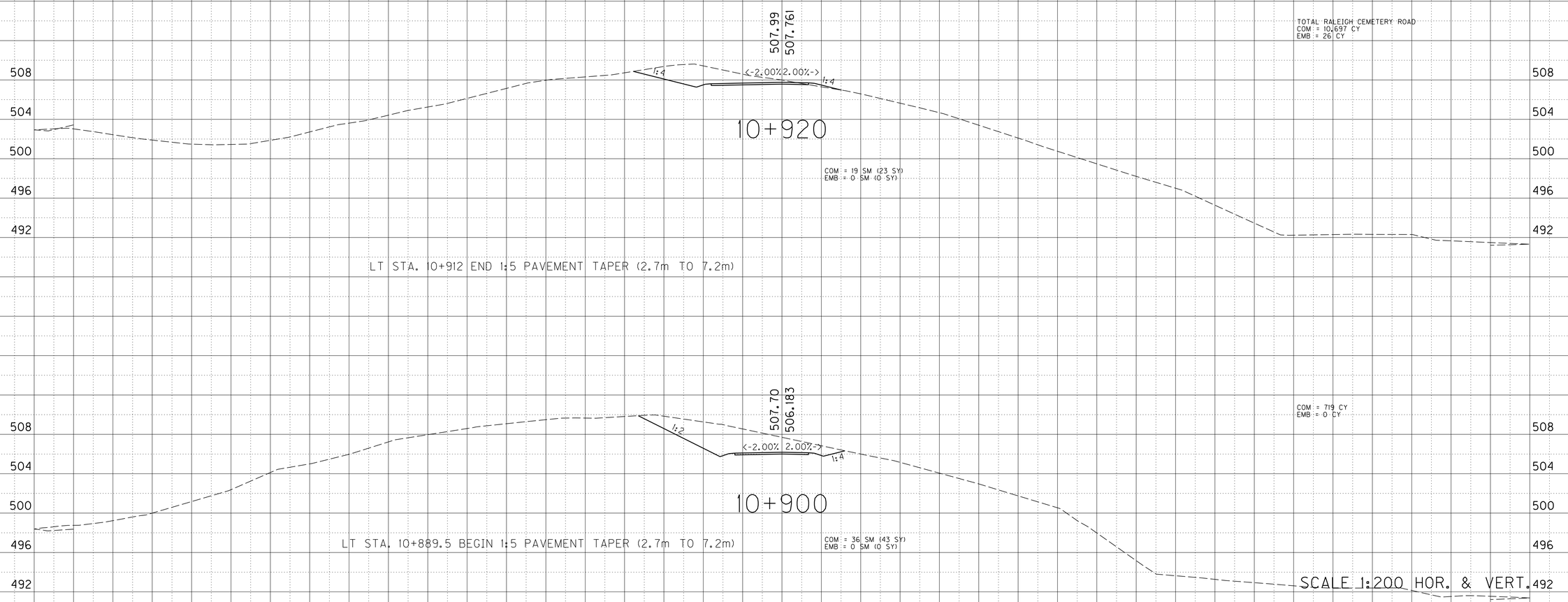
COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.77	X86

Revised 12/4/2014

TOTAL PROJECT
COM = 788,781 CY
ROCK = 3,771,319 CY
EMB = 465,946 CY
EMB BENCH = 4,055 CY
ROCK ROADBED = 47,195 CY

STA 10+921.855 END CONSTRUCTION

TOTAL RALEIGH CEMETERY ROAD
COM = 10,697 CY
EMB = 26 CY



COM = 719 CY
EMB = 0 CY

SCALE 1:200 HOR. & VERT.

RALEIGH CEMETERY ENTRANCE
STA 10+900 to STA 10+920

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

$$DGN$$

$$DATE$$

CALL NO. 100

CONTRACT ID. 141078

LETCHER COUNTY

FED/STATE PROJECT NUMBER ADP 1191(043)

DESCRIPTION HARLAN-WHITESBURG ROAD (US-119)

WORK TYPE BRIDGE WITH GRADE, DRAIN & SURFACE

PRIMARY COMPLETION DATE 8/1/2017

LETTING DATE: December 12,2014

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME December 12,2014. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

PLANS AVAILABLE FOR THIS PROJECT.

DBE CERTIFICATION REQUIRED - 4%

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

ADMINISTRATIVE DISTRICT - 12

CONTRACT ID - 141078

ADP 1191(043)

COUNTY - LETCHER

PCN - DE06701191478
ADP 1191(043)

HARLAN-WHITESBURG ROAD (US-119) PARTRIDGE TO OVEN FORK SECTION 4,US-119 RELOCATION FROM 0.1 MILE WEST OF BROWN BRANCH TO 0.15 MILE WEST OF KY-806 AT OVEN FORK INCLUDING APPROACH TO EXIST US-119.BRIDGE WITH GRADE, DRAIN & SURFACE SYP NO. 12-00311.77.

GEOGRAPHIC COORDINATES LATITUDE 37:03:00.00 LONGITUDE 82:49:20.00

COMPLETION DATE(S):

COMPLETED BY 08/01/2017 APPLIES TO ENTIRE CONTRACT

PROPOSAL BID ITEMS

Report Date 12/5/14

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	1,752.00	TON		$	
0020	00020		TRAFFIC BOUND BASE (REVISED: 12-5-14)	2,068.00	TON		$	
0030	00100		ASPHALT SEAL AGGREGATE	7.00	TON		$	
0040	00103		ASPHALT SEAL COAT	1.00	TON		$	
0050	00212		CL2 ASPH BASE 1.00D PG64-22	1,774.00	TON		$	
0060	00301		CL2 ASPH SURF 0.38D PG64-22	387.00	TON		$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0160	00078		CRUSHED AGGREGATE SIZE NO 2	8.00	TON		$	
0170	01000		PERFORATED PIPE-4 IN	490.00	LF		$	
0180	01002		PERFORATED PIPE-8 IN	200.00	LF		$	
0190	01010		NON-PERFORATED PIPE-4 IN	60.00	LF		$	
0200	01020		PERF PIPE HEADWALL TY 1-4 IN	4.00	EACH		$	
0210	01028		PERF PIPE HEADWALL TY 3-4 IN	1.00	EACH		$	
0220	01032		PERF PIPE HEADWALL TY 4-4 IN	1.00	EACH		$	
0230	01034		PERF PIPE HEADWALL TY 4-8 IN	2.00	EACH		$	
0240	01711		FILL AND CAP WELL	1.00	EACH		$	
0250	01786		FILL AND CAP MANHOLE	1.00	EACH		$	
0260	01891		ISLAND HEADER CURB TYPE 2	50.00	LF		$	
0270	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	36.00	EACH		$	
0280	01990		DELINEATOR FOR BARRIER WALL-B/W	30.00	EACH		$	
0290	02014		BARRICADE-TYPE III	4.00	EACH		$	
0300	02159		TEMP DITCH	9,678.00	LF		$	
0310	02200		ROADWAY EXCAVATION (REVISED: 12-5-14)	4,619,694.00	CUYD		$	
0320	02242		WATER	3,000.00	MGAL		$	
0330	02262		FENCE-WOVEN WIRE TYPE 1	20,010.00	LF		$	
0340	02351		GUARDRAIL-STEEL W BEAM-S FACE	2,600.00	LF		$	
0350	02360		GUARDRAIL TERMINAL SECTION NO 1	12.00	EACH		$	
0360	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		$	
0370	02371		GUARDRAIL END TREATMENT TYPE 7	2.00	EACH		$	
0380	02429		RIGHT-OF-WAY MONUMENT TYPE 1	52.00	EACH		$	
0390	02431		WITNESS R/W MONUMENT TYPE 2	6.00	EACH		$	
0400	02432		WITNESS POST	58.00	EACH		$	
0410	02483		CHANNEL LINING CLASS II	208.00	TON		$	
0420	02488		CHANNEL LINING CLASS IV	1,048.00	CUYD		$	
0430	02542		CEMENT	100.00	TON		$	
0440	02545		CLEARING AND GRUBBING 160 ACRES	1.00	LS		$	
0450	02562		TEMPORARY SIGNS	144.00	SQFT		$	
0460	02598		FABRIC-GEOTEXTILE TYPE III	38,016.00	SQYD		$	
0470	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	1,374.00	SQYD	$2.00	$	$2,748.00
0480	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		$	

PROPOSAL BID ITEMS

Report Date 12/5/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0490	02690		SAFELOADING	56.00	CUYD		$	
0500	02692		SETTLEMENT PLATFORM	6.00	EACH		$	
0510	02701		TEMP SILT FENCE	9,678.00	LF		$	
0520	02703		SILT TRAP TYPE A	107.00	EACH		$	
0530	02704		SILT TRAP TYPE B	50.00	EACH		$	
0540	02706		CLEAN SILT TRAP TYPE A	321.00	EACH		$	
0550	02707		CLEAN SILT TRAP TYPE B	150.00	EACH		$	
0560	02709		CLEAN TEMP SILT FENCE	29,034.00	LF		$	
0570	02711		SEDIMENTATION BASIN	2,625.00	CUYD		$	
0580	02712		CLEAN SEDIMENTATION BASIN	7,875.00	CUYD		$	
0590	02726		STAKING	1.00	LS		$	
0591	02731		REMOVE STRUCTURE (ADDED: 12-5-14)	1.00	LS		$	
0592	02731		REMOVE STRUCTURE BUILDING (ADDED: 12-5-14)	1.00	LS		$	
0600	03340		STEEL PIPE-2 1/2 IN	210.00	LF		$	
0610	03343		STEEL PIPE-4 IN	210.00	LF		$	
0620	05950		EROSION CONTROL BLANKET	11,238.00	SQYD		$	
0630	05952		TEMP MULCH	516,115.00	SQYD		$	
0640	05953		TEMP SEEDING AND PROTECTION	516,115.00	SQYD		$	
0650	05963		INITIAL FERTILIZER	27.00	TON		$	
0660	05964		20-10-10 FERTILIZER	16.00	TON		$	
0670	05985		SEEDING AND PROTECTION	806,515.00	SQYD		$	
0680	05992		AGRICULTURAL LIMESTONE	320.00	TON		$	
0690	06514		PAVE STRIPING-PERM PAINT-4 IN	1,160.00	LF		$	
0700	06567		PAVE MARKING-THERMO STOP BAR-12IN	12.00	LF		$	
0710	08100		CONCRETE-CLASS A	2.00	CUYD		$	
0720	08150		STEEL REINFORCEMENT	150.00	LB		$	
0730	10020NS		FUEL ADJUSTMENT	706,418.00	DOLL	$1.00	$	$706,418.00
0740	20000ES724		TREE BARE ROOT SEEDLINGS	600.00	EACH		$	
0750	20209EP69		GRANULAR PILE CORE	4,619.00	CUYD		$	
0760	20667ED		PNEUMATIC BACKSTOWING	4,500.00	TON		$	
0770	23131ER701		PIPELINE VIDEO INSPECTION	407.00	LF		$	
0780	23649EC		DRAIN POND	1.00	LS		$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0790	00440		ENTRANCE PIPE-15 IN	44.00	LF		$	
0800	00462		CULVERT PIPE-18 IN	165.00	LF		$	
0810	00464		CULVERT PIPE-24 IN	242.00	LF		$	
0820	01204		PIPE CULVERT HEADWALL-18 IN	2.00	EACH		$	
0830	01208		PIPE CULVERT HEADWALL-24 IN	4.00	EACH		$	
0840	01433		SLOPED BOX OUTLET TYPE 1-18 IN	1.00	EACH		$	
0850	01496		DROP BOX INLET TYPE 3	1.00	EACH		$	

Section: 0004 - BRIDGE-25289

PROPOSAL BID ITEMS

Report Date 12/5/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0860	02231		STRUCTURE GRANULAR BACKFILL	120.00	CUYD		$	
0870	02998		MASONRY COATING	190.00	SQYD		$	
0880	03299		ARMORED EDGE FOR CONCRETE	96.00	LF		$	
0890	08002		STRUCTURE EXCAV-SOLID ROCK	145.00	CUYD		$	
0900	08004		STONE MASONRY VENEER	440.00	SQFT		$	
0910	08019		CYCLOPEAN STONE RIP RAP	359.00	TON		$	
0920	08033		TEST PILES	56.00	LF		$	
0930	08046		PILES-STEEL HP12X53	307.00	LF		$	
0940	08094		PILE POINTS-12 IN	7.00	EACH		$	
0950	08100		CONCRETE-CLASS A	350.60	CUYD		$	
0960	08104		CONCRETE-CLASS AA	450.10	CUYD		$	
0970	08150		STEEL REINFORCEMENT	68,820.00	LB		$	
0980	08151		STEEL REINFORCEMENT-EPOXY COATED	103,184.00	LB		$	
0990	08160		STRUCTURAL STEEL 1904 LBS	1.00	LS		$	
1000	08634		PRECAST PC I BEAM TYPE 4	1,350.00	LF		$	

Section: 0005 - BRIDGE-25290

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1010	02231		STRUCTURE GRANULAR BACKFILL	160.00	CUYD		$	
1020	02599		FABRIC-GEOTEXTILE TYPE IV	220.00	SQYD		$	
1030	02998		MASONRY COATING	173.00	SQYD		$	
1040	03299		ARMORED EDGE FOR CONCRETE	80.00	LF		$	
1050	08002		STRUCTURE EXCAV-SOLID ROCK	72.00	CUYD		$	
1060	08003		FOUNDATION PREPARATION	1.00	LS		$	
1070	08004		STONE MASONRY VENEER	277.00	SQFT		$	
1080	08019		CYCLOPEAN STONE RIP RAP	217.00	TON		$	
1090	08033		TEST PILES	62.00	LF		$	
1100	08046		PILES-STEEL HP12X53	434.00	LF		$	
1110	08094		PILE POINTS-12 IN	16.00	EACH		$	
1120	08100		CONCRETE-CLASS A	220.90	CUYD		$	
1130	08104		CONCRETE-CLASS AA	297.30	CUYD		$	
1140	08150		STEEL REINFORCEMENT	40,321.00	LB		$	
1150	08151		STEEL REINFORCEMENT-EPOXY COATED	99,733.00	LB		$	
1160	08160		STRUCTURAL STEEL 375 LBS	1.00	LS		$	
1170	08633		PRECAST PC I BEAM TYPE 3	707.00	LF		$	

Section: 0006 - BRIDGE-25291

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1180	02231		STRUCTURE GRANULAR BACKFILL	57.00	CUYD		$	
1190	02998		MASONRY COATING	200.00	SQYD		$	
1200	03299		ARMORED EDGE FOR CONCRETE	88.34	LF		$	
1210	08002		STRUCTURE EXCAV-SOLID ROCK	408.00	CUYD		$	
1220	08004		STONE MASONRY VENEER	320.00	SQFT		$	
1230	08019		CYCLOPEAN STONE RIP RAP	349.00	TON		$	

PROPOSAL BID ITEMS

Report Date 12/5/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1240	08033		TEST PILES	32.00	LF		$	
1250	08046		PILES-STEEL HP12X53	196.00	LF		$	
1260	08094		PILE POINTS-12 IN	8.00	EACH		$	
1270	08100		CONCRETE-CLASS A	268.00	CUYD		$	
1280	08104		CONCRETE-CLASS AA	341.80	CUYD		$	
1290	08150		STEEL REINFORCEMENT	41,576.00	LB		$	
1300	08151		STEEL REINFORCEMENT-EPOXY COATED	40,870.00	LB		$	
1310	08160		STRUCTURAL STEEL 480 LBS	1.00	LS		$	
1320	08633		PRECAST PC I BEAM TYPE 3	732.00	LF		$	

Section: 0007 - BRIDGE-25292

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1330	02231		STRUCTURE GRANULAR BACKFILL	115.00	CUYD		$	
1340	02998		MASONRY COATING	185.60	SQYD		$	
1350	03299		ARMORED EDGE FOR CONCRETE	96.00	LF		$	
1360	08002		STRUCTURE EXCAV-SOLID ROCK	128.00	CUYD		$	
1370	08004		STONE MASONRY VENEER	443.00	SQFT		$	
1380	08019		CYCLOPEAN STONE RIP RAP	463.00	TON		$	
1390	08033		TEST PILES	109.50	LF		$	
1400	08046		PILES-STEEL HP12X53	639.00	LF		$	
1410	08094		PILE POINTS-12 IN	14.00	EACH		$	
1420	08100		CONCRETE-CLASS A	378.90	CUYD		$	
1430	08104		CONCRETE-CLASS AA	446.10	CUYD		$	
1440	08150		STEEL REINFORCEMENT	71,779.00	LB		$	
1450	08151		STEEL REINFORCEMENT-EPOXY COATED	103,974.00	LB		$	
1460	08160		STRUCTURAL STEEL 1904 LBS	1.00	LS		$	
1470	08634		PRECAST PC I BEAM TYPE 4	1,350.00	LF		$	

Section: 0008 - BRIDGE-25294

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1480	02231		STRUCTURE GRANULAR BACKFILL	325.00	CUYD		$	
1490	02599		FABRIC-GEOTEXTILE TYPE IV	315.00	SQYD		$	
1500	02998		MASONRY COATING	267.00	SQYD		$	
1510	03299		ARMORED EDGE FOR CONCRETE	109.00	LF		$	
1520	08003		FOUNDATION PREPARATION	1.00	LS		$	
1530	08004		STONE MASONRY VENEER	438.00	SQFT		$	
1540	08019		CYCLOPEAN STONE RIP RAP	835.00	TON		$	
1550	08033		TEST PILES	99.00	LF		$	
1560	08046		PILES-STEEL HP12X53	942.00	LF		$	
1570	08094		PILE POINTS-12 IN	21.00	EACH		$	
1580	08100		CONCRETE-CLASS A	230.70	CUYD		$	
1590	08104		CONCRETE-CLASS AA	577.10	CUYD		$	
1600	08150		STEEL REINFORCEMENT	40,222.00	LB		$	
1610	08151		STEEL REINFORCEMENT-EPOXY COATED	178,099.00	LB		$	

PROPOSAL BID ITEMS

Report Date 12/5/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1620	08160		STRUCTURAL STEEL 952 LBS	1.00	LS		$	
1630	08636		PRECAST PC I BEAM TYPE 5	1,403.00	LF		$	
1640	20637ED		DRILLED SHAFT-ROCK 48 IN	48.00	LF		$	
1650	21777EN		DRILLED SHAFT COMMON-54 IN	154.00	LF		$	

Section: 0009 - BRIDGE-25358

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1660	08003		FOUNDATION PREPARATION	1.00	LS		$	
1670	08104		CONCRETE-CLASS AA	955.90	CUYD		$	
1680	08150		STEEL REINFORCEMENT	137,880.00	LB		$	

Section: 0010 - BRIDGE-25359

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0070	08003		FOUNDATION PREPARATION	1.00	LS		$	
0080	08104		CONCRETE-CLASS AA	215.00	CUYD		$	
0090	08150		STEEL REINFORCEMENT	25,441.00	LB		$	

Section: 0011 - TRAINEES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0100	02742		TRAINEE PAYMENT REIMBURSEMENT GROUP 2, 3, OR 4 OPERATOR	1,400.00	HOUR		$	
0110	02742		TRAINEE PAYMENT REIMBURSEMENT GROUP 2, 3 OR 4 OPERATOR	1,400.00	HOUR		$	
0120	02742		TRAINEE PAYMENT REIMBURSEMENT GROUP 2, 3 OR 4 OPERATOR	1,400.00	HOUR		$	
0130	02742		TRAINEE PAYMENT REIMBURSEMENT CARPENTER	1,400.00	HOUR		$	

Section: 0012 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	02568		MOBILIZATION	1.00	LS		$	
0150	02569		DEMOBILIZATION	1.00	LS		$	