COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R1

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

ROCKCASTLE COUNTY I–75

NHPP IM 0752 (095)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2 - R2t	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3 - R61	PLAN AND PROFILE SHEETS
R62	RIGHT OF WAY SUMMARY SHEETS
R63 - R66	RIGHT OF WAY STRIP MAP SHEETS
R67 - R76g	DETAIL SHEETS
R77 - R95	STRIPING SHEETS
R96 - R132	TRAFFIC CONTROL SHEETS
R133 - R152	EROSION CONTROL SHEETS
R153 - R159	REFERENCE SHEETS
R160 - R204	PIPE DRAINAGE SHEETS
R205 - R228	SOIL PROFILE SHEETS
X1 - X457	CROSS SECTION SHEETS

TOTAL SHEETS

(R) ROADWAY	228
(S) STRUCTURE	S1 - S49 DRAWING NO 26371
	S1 - S28 DRAWING NO 26372
	S1 - S2 DRAWING NO 26373
(T) TRAFFIC	T1 - T77
(U) UTILITY	0
(X) CROSS SECTION	457

SHEETS NOT INCLUDED IN TOTAL SHEETS

R2a - R2t, R76a - R76g, R96a - R96d, T55A, T65A

STANDARD DRAWINGS

NUMBER

RBB-001-08	RDB-014-06	RDH-210-03	RDX-210-03
RBC-002-03	RDB-015-04	RDH-310-04	RDX-220-05
RBC-003-08	RDB-016-03	RDI-001-10	RDX-225-01
RBC-005	RDB-017-03	RDI-002-05	RDX-230-01
RBC-006	RDB-030-04	RDI-003-05	RFW-001-06
RBE-060-14	RDB-031-04	RDI-004-04	RFW-005-08
RBE-065-07	RDB-032-04	RDI-005-04	RGS-001-07
RBE-100-10	RDB-033-03	RDI-020-09	RGS-002-06
RBI-001-11	RDB-034-04	RDI-021-01	RGX-001-06
RBI-002-07	RDB-035-04	RDI-025-05	RGX-005-06
RBI-003-09	RDB-100-05	RDI-026-01	RGX-010-04
RBM-020-09	RDB-101-05	RDI-035-02	RGX-200-01
RBM-050-01	RDB-105-06	RDI-040-01	RPM-100-10
RBM-053-01	RDB-106-05	RDI-041-01	RPM-110-07
RBM-115-10	RDB-150-02	RDI-045-02	RPM-120-07
RBM-120-01	RDB-160-02	RDI-200-05	TPM-100-03
RBR-001-12	RDB-240-02	RDM-001-07	TPM-105-03
RBR-005-11	RDB-241-02	RDM-010-06	TPM-115-03
RBR-015-05	RDB-270-09	RDM-011-05	TPM-125-03
RBR-016-05	RDB-271-05	RDM-012-03	TPM-135-03
RBR-025-05	RDB-272-07	RDM-013-04	TPM-145-03
RBR-030-05	RDB-273-06	RDM-055	TPM-170
RBR-031-01	RDB-280-06	RDM-100-03	TPM-171
RBR-035-11	RDB-281-03	RDM-105-03	TTC-115-03
RBR-055	RDB-282-04	RDP-001-06	TTC-120-03
RBR-100-17	RDB-283-04	RDP-005-05	TTC-135-02
RDB-001-12	RDB-400-05	RDP-006-04	TTC-155-02
RDB-002-12	RDB-410-06	RDP-007-04	TTC-160-02
RDB-005-09	RDB-420-05	RDP-010-09	TTD-120-02
RDB-007-03	RDD-030-08	RDX-001-06	TTS-105-02
RDB-008-04	RDD-040-05	RDX-002-04	TTS-115-02
RDB-013-07	RDH-110-02	RDX-060-04	
	RDH-200-03	RDX-160-06	

TOTAL NO. OF STD DWGS: 1298

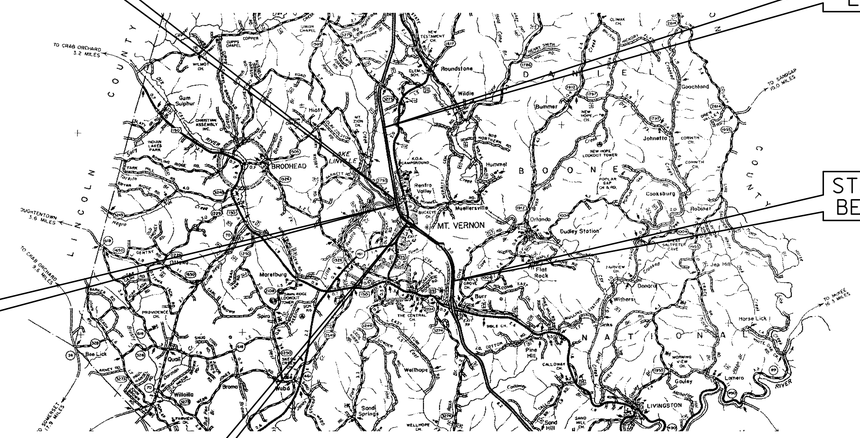
STA 3301+26.5 CONSTRUCT 78'-0" TYPE III PCI BEAM SPAN @ 18° SKEW LT

STA 3399+01.71 END PROJECT

STA 3165+72.28 BEGIN PROJECT

STA 3290+08 CONSTRUCT CAP OVER EXISTING SPILLWAY

STA 3267+17.97 CONSTRUCT 75'-0" x 122'-3" x 73'-3" TYPE HYBRID HN 54 49 PCI BEAM SPANS @ 36°00'28" SKEW LT



THIS PROJECT IS ON THE NATIONAL HIGHWAY SYSTEM

THESE PLANS ARE FOR GRADE, DRAIN, AND SURFACING

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

1 0 1 2 3

GRAPHIC SCALE IN MILES

LAYOUT MAP

DESIGN CRITERIA

CLASS OF HIGHWAY	RURAL INTERSTATE
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	70MPH
REQUIRED NPSD	
REQUIRED PSD	
LEVEL OF SERVICE	C
ADT PRESENT (2005)	39,300
ADT FUTURE (2026)	58,200
DHV	7000
D %	
T %	36%

GEOGRAPHIC COORDINATES

LATITUDE 37 DEGREES 20 MINUTES 46 SECONDS NORTH

LONGITUDE 84 DEGREES 18 MINUTES 28 SECONDS WEST

DESIGNED

% RESTRICTED SD

LEVEL OF SERVICE B

MAX. DISTANCE W/O PASSING

I-75

LENGTH 23,329.29 LIN. FT. 4.419 MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES
ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT. NOT INCLUDED
RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.
BRIDGES 342.5 LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

ROCKCASTLE

ITEM NO. 8-6.20

PROJECT NUMBER: FD52-0102-0075 060-065
NHPP IM 0752 (095)

LETTING DATE: DECEMBER 8, 2017

RECOMMENDED BY: ___ PROJECT MANAGER DATE:

PLAN APPROVED BY: ___ STATE HIGHWAY ENGINEER DATE:

STATE OF KENTUCKY
JAMES DAVID NAPIER
10393
LICENSED
PROFESSIONAL ENGINEER

James D. Napier

DLZ WMB
1950 HAGGARD COURT
LEXINGTON, KENTUCKY 40505
(859) 299-5226

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0100LS.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0010LS
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2

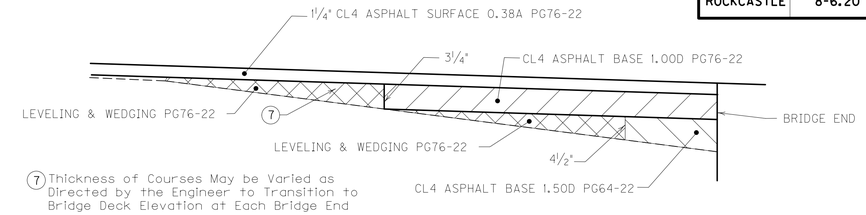
BEGIN PROJECT STATION 3165+72.28=
APPROXIMATE I-75 MILE POINT 60.086

END PROJECT STATION 3399+01.71=
APPROXIMATE I-75 MILE POINT 64.504

TYPICAL SECTIONS

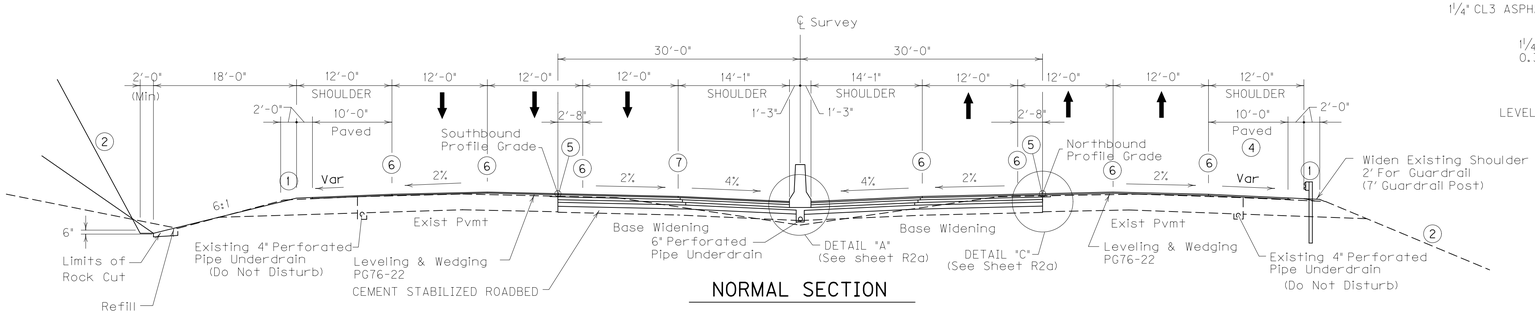
LONGITUDINAL PAVEMENT TAPER AT US 25 BRIDGE

	BEGIN TAPER	TAPER LENGTH	END OF BRIDGE	END OF BRIDGE	TAPER LENGTH	END TAPER
SOUTHBOUND AT CROWN POINT	3253+14	1248'	3265+61.9	3268+32.5	1164	3279+96
NORTHBOUND AT CROWN POINT	3259+31	684'	3266+15.1	3268+94.4	400'	3272+94

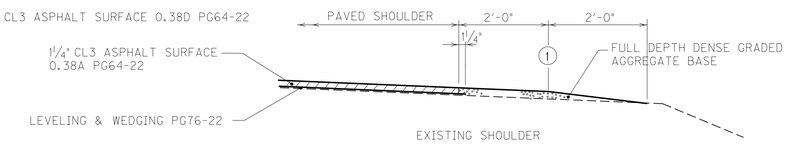


LONGITUDINAL OVERLAY TAPER AT I-75 OVER US 25 BRIDGE ENDS

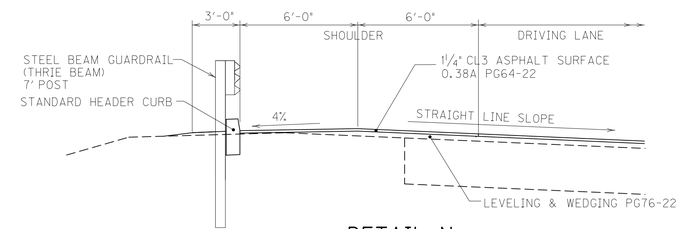
INTERSTATE 75



NORMAL SECTION

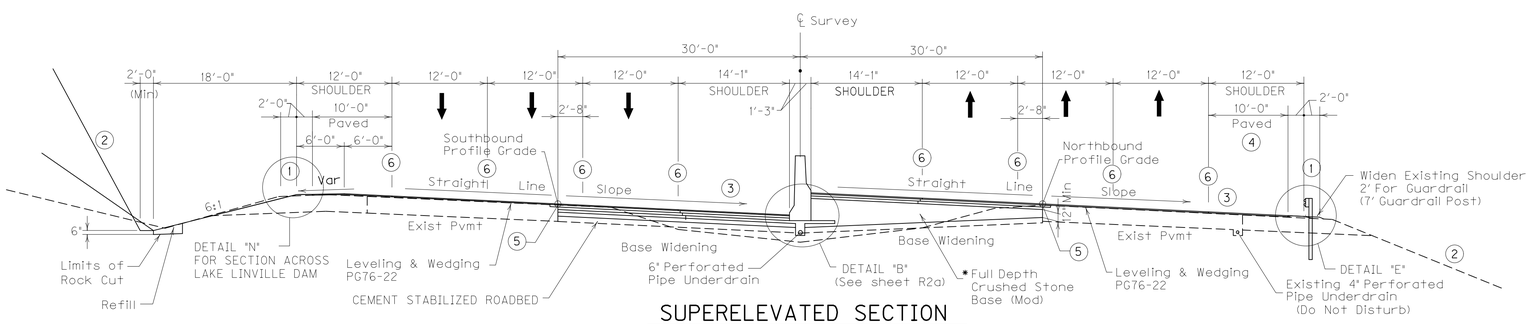


DETAIL "E"



DETAIL N

(LT STA 3289+00 TO STA 3300+64.2)



SUPERELEVATED SECTION

*CRUSHED STONE BASE ON INSIDE OF CURVE
Lt Sta 3165+72.28 To Sta 3212+34
Lt Sta 3234+25 To Sta 3255+06
Rt Sta 3258+62 To Sta 3299+68
Lt Sta 3313+77 To Sta 3331+92
Rt Sta 3334+30 To Sta 3352+87
Lt Sta 3352+76 To Sta 3372+77

**Except As Shown

NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT

USING

DRIVING LANE OVERLAY

APPROX ½"± BASE — LEVELING & WEDGING BASE PG76-22

APPROX 1¼" SURF — 1¼" CL4 ASPHALT SURFACE 0.38A PG76-22

OVERLAY NORMAL SHOULDERS

APPROX ½"± BASE — LEVELING & WEDGING BASE PG76-22

APPROX 1¼" SURF — 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22

BASE WIDENING MEDIAN (DRIVING LANE)

8" CEMENT STABILIZED ROADBED — CEMENT STABILIZED ROADBED
CEMENT (8", 6%, 108 LBS/CU FT)
2.0 LBS/SY ASPHALT CURING SEAL
5.0 LBS/SY SAND FOR BLOTTER

APPROX 17¾" BASE — 6" COMPACTED DENSE GRADED AGGREGATE**
1.6 LBS/SY ASPHALT CURING SEAL
5.0 LBS/SY SAND FOR BLOTTER
4" DRAINAGE BLANKET TY II ASPHALT **
4½" CL 4 ASPHALT BASE 1.50D PG64-22
3¼" CL 4 ASPHALT BASE 1.00D PG76-22

APPROX 1¼" SURF — 1¼" CL 4 ASPHALT SURFACE 0.38A PG76-22

BASE WIDENING MEDIAN (SHOULDER)

8" CEMENT STABILIZED ROADBED — CEMENT STABILIZED ROADBED
CEMENT (8", 6%, 108 LBS/CU FT)
2.0 LBS/SY ASPHALT CURING SEAL
5.0 LBS/SY SAND FOR BLOTTER

APPROX 17¾" BASE — 1.6 LBS/SY ASPHALT CURING SEAL
5.0 LBS/SY SAND FOR BLOTTER
6" COMPACTED DENSE GRADED AGGREGATE
4" DRAINAGE BLANKET TY II ASPHALT OR FULL DEPTH
4½" CL 3 ASPHALT BASE 1.50D PG64-22
3¼" CL 3 ASPHALT BASE 1.00D PG64-22

APPROX 1¼" SURF — 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22

1. Asphalt Seal Coat Required from the Outside Edge of the Paved Shoulder to a Point 2' Down the Ditch or Fill Slope. Two (2) Applications at the rate of:
   2.40 lbs/S.Y. Asphalt Seal Coat
   20 lbs/S.Y. Item 100 Asphalt Seal Aggregate (Size No. 8 or 9MM)
2. See Cross Sections for Slopes Outside the Limits of the Shoulder
3. Superelevated Shoulders, Construct to Standard Superelevation Except Not Flatter than Slopes Indicated For Normal Shoulders.
4. 10' Paved Shoulder Without Guardrail
   12' Paved Shoulder With Guardrail
5. Longitudinal Saw Cut (3¼" deep) at Existing Edge of Pavement and Construct Longitudinal Edge Key to Provide for New Pavement Match-Up. See Detail C.
6. Place Longitudinal Pavement Joint Adhesive at All Longitudinal Joints in the Surface Course. See Special Note for Details.

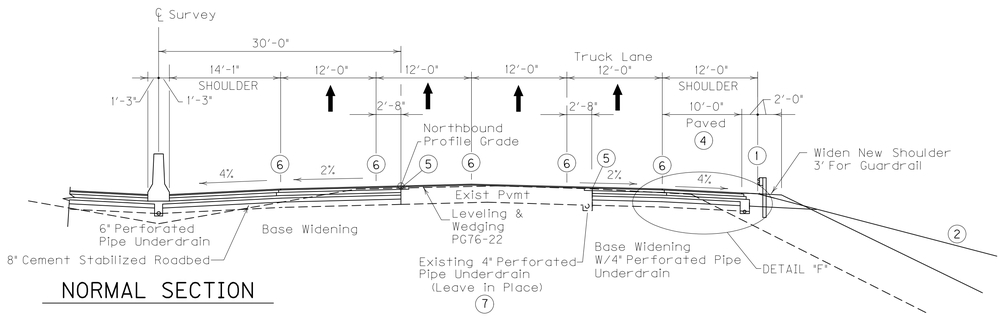
TYPICAL SECTIONS

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020OTS.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020OTS
MicroStation v8.11.7.443

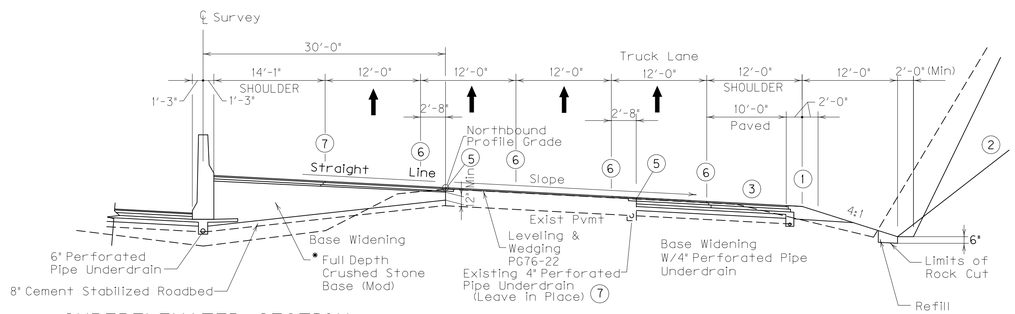
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2a

TYPICAL SECTIONS

INTERSTATE 75
(TRUCK LANE)
(Sta 3286+50 - Sta 3388+00)



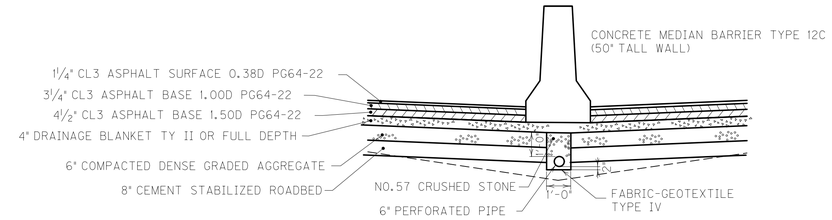
NORMAL SECTION



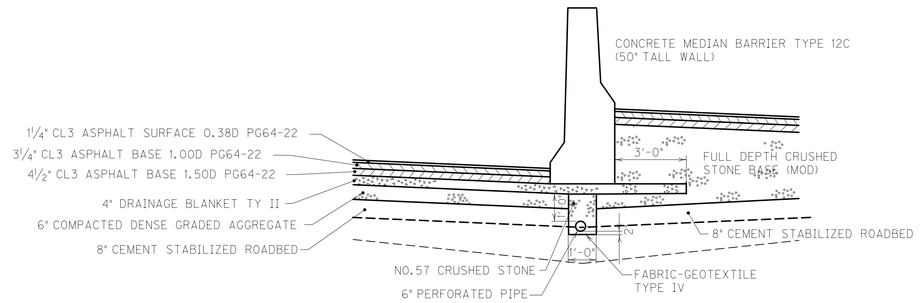
SUPERELEVATED SECTION

*See Sheet R2 For Station Limits

**Except As Shown



DETAIL "A"

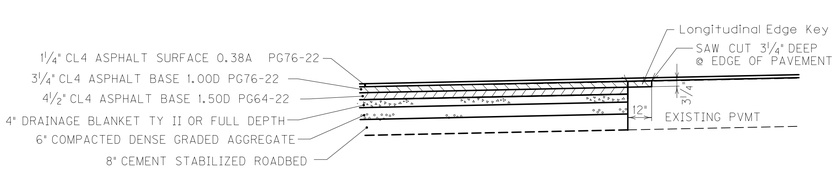


DETAIL "B"

NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT

TRUCK CLIMBING LANE		USING	NORMAL SHOULDERS	
8" CEMENT STABILIZED ROADBED	CEMENT STABILIZED ROADBED CEMENT (8", 6%, 108 LBS/CU FT) 2.0 LBS/SY ASPHALT CURING SEAL 5.0 LBS/SY SAND FOR BLOTTER		8" CEMENT STABILIZED ROADBED	CEMENT STABILIZED ROADBED CEMENT (8", 6%, 108 LBS/CU FT) 2.0 LBS/SY ASPHALT CURING SEAL 5.0 LBS/SY SAND FOR BLOTTER
APPROX 17¾" BASE	6" COMPACTED DENSE GRADED AGGREGATE ** 1.6 LBS/SY ASPHALT CURING SEAL 5.0 LBS/SY SAND FOR BLOTTER 4" DRAINAGE BLANKET TY II ASPHALT ** 4½" CL4 ASPHALT BASE 1.50D PG64-22 3¼" CL4 ASPHALT BASE 1.00D PG76-22		APPROX 17¾" BASE	6" COMPACTED DENSE GRADED AGGREGATE 1.6 LBS/SY ASPHALT CURING SEAL 5.0 LBS/SY SAND FOR BLOTTER 4" DRAINAGE BLANKET TY II ASPHALT 4½" CL3 ASPHALT BASE 1.50D PG64-22 3¼" CL3 ASPHALT BASE 1.00D PG64-22
APPROX 1¼" SURF	1¼" CL4 ASPHALT SURFACE 0.38A PG76-22		APPROX 1¼" SURF	1¼" CL3 ASPHALT SURFACE 0.38D PG64-22

DETAIL "F"



DETAIL "C"

1. Asphalt Seal Coat Required from the Outside Edge of the Paved Shoulder to a Point 2' Down the Ditch or Fill Slope. Two (2) Applications at the rate of:
   2.40 lbs/S.Y. Asphalt Seal Coat
   20 lbs/S.Y. Item 100 Asphalt Seal Aggregate (Size No. 8 or 9MM)
2. See Cross Sections for Slopes Outside the Limits of the Shoulder
3. Superelevated Shoulders, Construct to Standard Superelevation Except Not Flatter than Slopes Indicated For Normal Shoulders.
4. 10' Paved Shoulder Without Guardrail
   12' Paved Shoulder With Guardrail
5. Longitudinal Saw Cut (3¼" deep) at Existing Edge of Pavement and Construct Longitudinal Edge Key to Provide for New Pavement Match-Up. See Detail C.
6. Place Longitudinal Pavement Joint Adhesive at All Longitudinal Joints in the Surface Course. See Special Note for Details.
7. Outlet Existing Edge Drain thru New 4" Perf Pipe Edge Drain Along Truck Lane Shoulder.

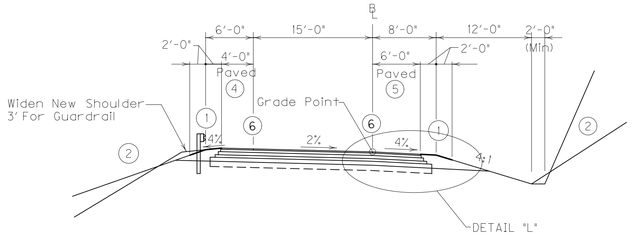
TYPICAL SECTIONS

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020ATS.DGN
USER: tvanbehren
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R0020ATS
MicroStation v8.11.7.443

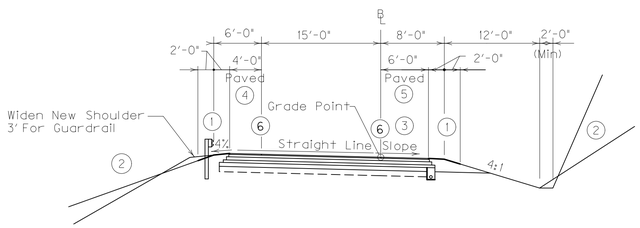
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2b

TYPICAL SECTIONS

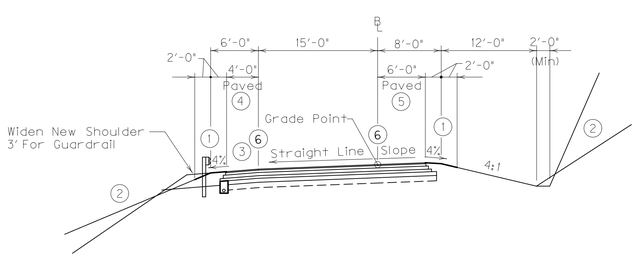
SINGLE LANE RAMPS



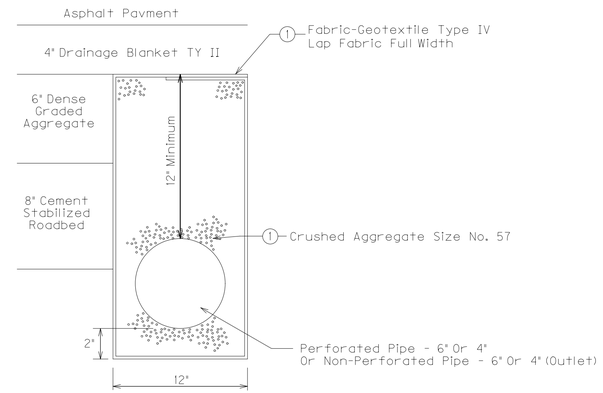
NORMAL SECTION



RT SUPERELEVATED SECTION

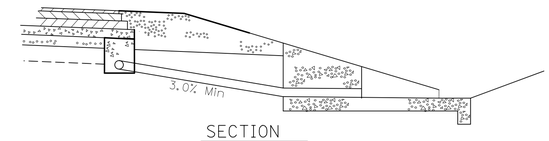


LT SUPERELEVATED SECTION

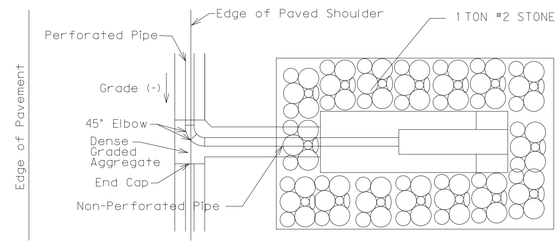


(1) These Items And All Other Cost Associated With Installing The Edge Drains, Including Excavating The Trench, Considered Incidental To The Perforated Pipe Bid Item

PERFORATED PIPE DRAIN TRENCH TYPICAL



SECTION
(NEW SHOULDER)



PLAN

PERFORATED PIPE UNDERDRAIN
(NEW SHOULDER)

NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT
USING

DRIVING LANES

8" CEMENT STABILIZED ROADBED
- CEMENT STABILIZED ROADBED
- CEMENT (8", 6%, 108 LBS/CU FT)
- 2.0 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER

APPROX 17¾" BASE
- 6" COMPACTED DENSE GRADED AGGREGATE
- 1.6 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER
- 4" DRAINAGE BLANKET TY II ASPHALT OR FULL DEPTH
- 4½" CL4 ASPHALT BASE 1.50D PG64-22
- 3¼" CL4 ASPHALT BASE 1.00D PG76-22

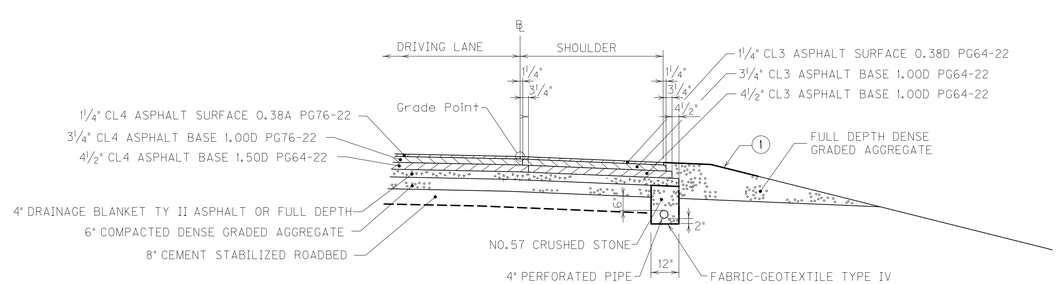
APPROX 1¼" SURF
- 1¼" CL4 ASPHALT SURFACE 0.38A PG76-22

NORMAL SHOULDERS

8" CEMENT STABILIZED ROADBED
- CEMENT STABILIZED ROADBED
- CEMENT (8", 6%, 108 LBS/CU FT)
- 2.0 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER

APPROX 17¾" BASE
- 6" COMPACTED DENSE GRADED AGGREGATE
- 1.6 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER
- 4" DRAINAGE BLANKET TY II
- 4½" CL3 ASPHALT BASE 1.50D PG64-22
- 3¼" CL3 ASPHALT BASE 1.00D PG64-22

APPROX 1¼" SURF
- 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22



DETAIL L

(1) Asphalt Seal Coat Required from the Outside Edge of the Paved Shoulder to a Point 2' Down the Ditch or Fill Slope. Two (2) Applications at the rate of:
2.40 lbs/S.Y. Asphalt Seal Coat
20 lbs/S.Y. Item 100 Asphalt Seal Aggregate (Size No. 8 or 9MM)

(2) See Cross Sections for Slopes Outside the Limits of the Shoulder

(3) Superelevated Shoulders, Construct to Standard Superelevation Except Not Flatter than Slopes Indicated For Normal Shoulders.

(4) 4' Paved Shoulder Without Guardrail
6' Paved Shoulder With Guardrail

(5) 6' Paved Shoulder Without Guardrail
8' Paved Shoulder With Guardrail

(6) Place Longitudinal Pavement Joint Adhesive at All Longitudinal Joints In the Surface Course. See Special Note for Details.

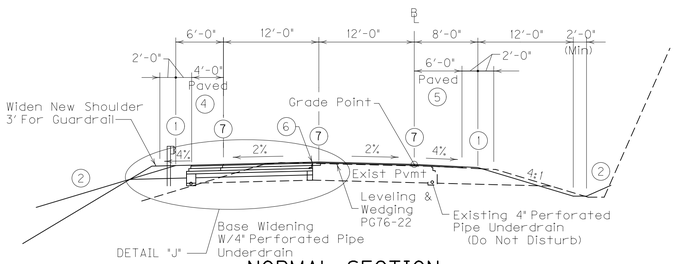
TYPICAL SECTIONS

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020BTS.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020BTS
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2c

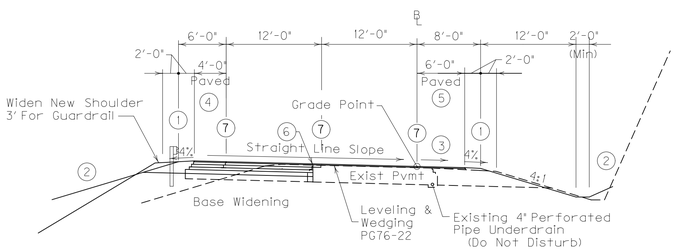
TYPICAL SECTIONS

TWO LANE RAMPS



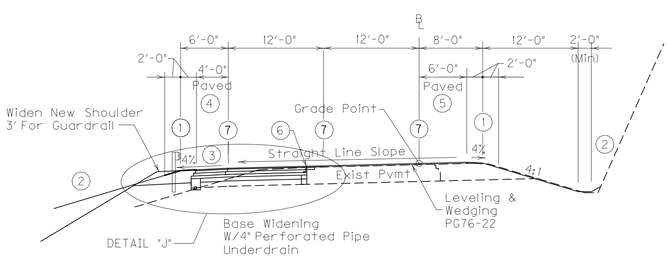
NORMAL SECTION

(TYPICAL BASE WIDENING, SEE X-SECTIONS FOR LOCATION)



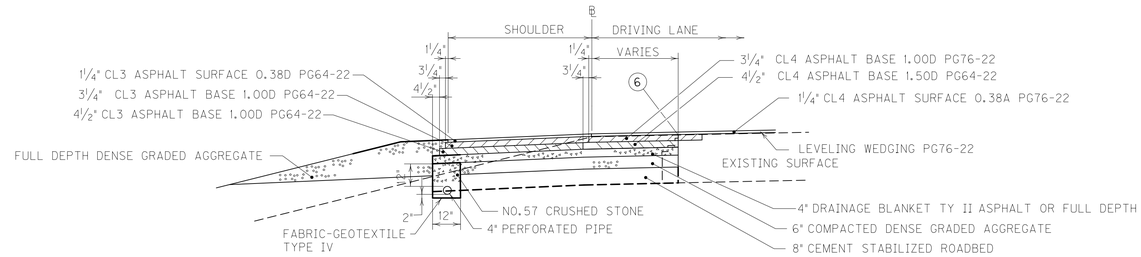
RT SUPERELEVATED SECTION

(TYPICAL BASE WIDENING, SEE X-SECTIONS FOR LOCATION)



LT SUPERELEVATED SECTION

(TYPICAL BASE WIDENING, SEE X-SECTIONS FOR LOCATION)



DETAIL J

(TYPICAL BASE WIDENING)

1. Asphalt Seal Coat Required from the Outside Edge of the Paved Shoulder to a Point 2' Down the Ditch or Fill Slope. Two (2) Applications at the rate of:
   2.40 lbs/S.Y. Asphalt Seal Coat
   20 lbs/S.Y. Item 100 Asphalt Seal Aggregate (Size No. 8 or 9MM)
2. See Cross Sections for Slopes Outside the Limits of the Shoulder
3. Superelevated Shoulders, Construct to Standard Superelevation Except Not Flatter than Slopes Indicated For Normal Shoulders.
4. 4' Paved Shoulder Without Guardrail
   6' Paved Shoulder With Guardrail
5. 6' Paved Shoulder Without Guardrail
   8' Paved Shoulder With Guardrail
6. Longitudinal Saw Cut (3¼" deep) at Existing Edge of Pavement and Construct Longitudinal Edge Key to Provide for New Pavement Match-Up. See Detail C.
7. Place Longitudinal Pavement Joint Adhesive at All Longitudinal Joints in the Surface Course. See Special Note for Details.

NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT
USING

BASE WIDENING

DRIVING LANES

8" CEMENT STABILIZED ROADBED
- CEMENT STABILIZED ROADBED
- CEMENT (8", 6%, 108 LBS/CU FT)
- 2.0 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER

APPROX 17¾" BASE
- 6" COMPACTED DENSE GRADED AGGREGATE
- 1.6 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER
- 4" DRAINAGE BLANKET TY II ASPHALT OR FULL DEPTH
- 4½" CL4 ASPHALT BASE 1.50D PG64-22
- 3¼" CL4 ASPHALT BASE 1.00D PG76-22

APPROX 1¼" SURF
- 1¼" CL4 ASPHALT SURFACE 0.38A PG76-22

NORMAL SHOULDERS

8" CEMENT STABILIZED ROADBED
- CEMENT STABILIZED ROADBED
- CEMENT (8", 6%, 108 LBS/CU FT)
- 2.0 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER

APPROX 17¾" BASE
- 6" COMPACTED DENSE GRADED AGGREGATE
- 1.6 LBS/SY ASPHALT CURING SEAL
- 5.0 LBS/SY SAND FOR BLOTTER
- 4" DRAINAGE BLANKET TY II
- 4½" CL3 ASPHALT BASE 1.50D PG64-22
- 3¼" CL3 ASPHALT BASE 1.00D PG64-22

APPROX 1¼" SURF
- 1¼" CL3 ASPHALT SURFACE 0.38 PG64-22

OVERLAY

DRIVING LANE OVERLAY

APPROX ½"± BASE
- LEVELING & WEDGING PG76-22

APPROX 1¼" SURF
- 1¼" CL4 ASPHALT SURFACE 0.38A PG76-22

OVERLAY NORMAL SHOULDERS

APPROX ½"± BASE
- LEVELING & WEDGING PG76-22

APPROX 1¼" SURF
- 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22

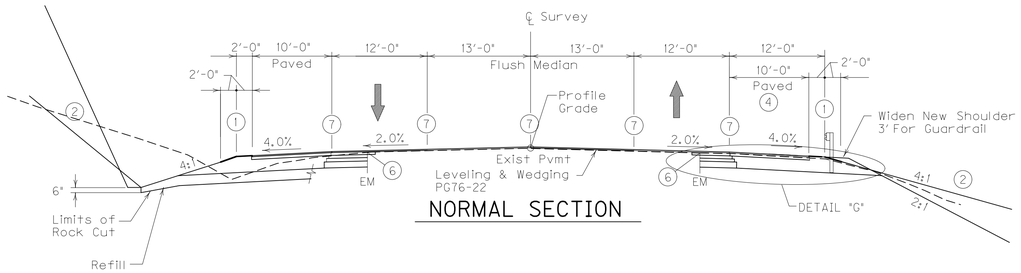
TYPICAL SECTIONS

MicroStation v8.11.7.443 E-SHEET NAME: R0020CTS USER: tvonbehren DATE PLOTTED: November 6, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020CTS.DGN

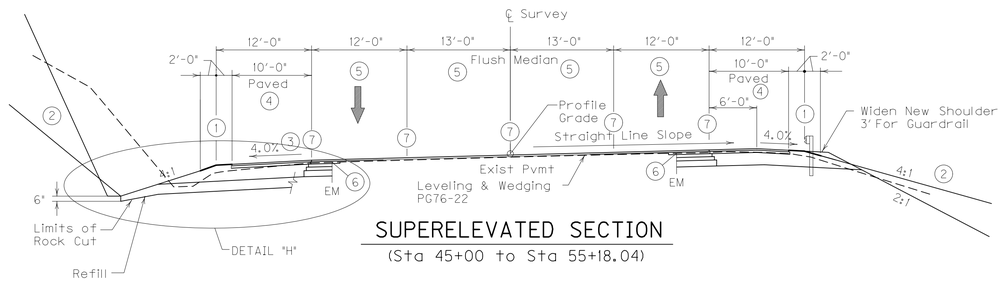
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2d

US 25

TYPICAL SECTIONS

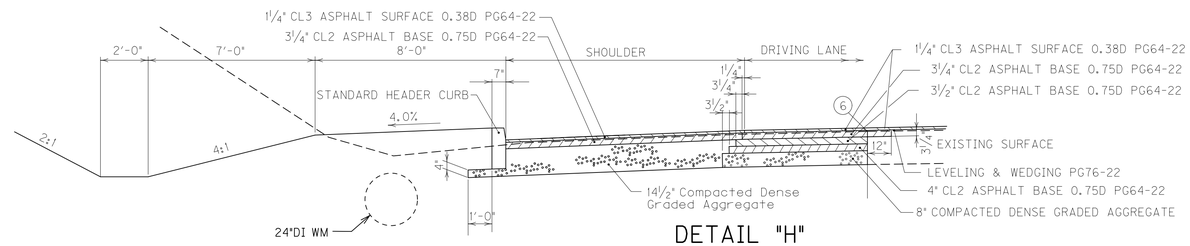


NORMAL SECTION



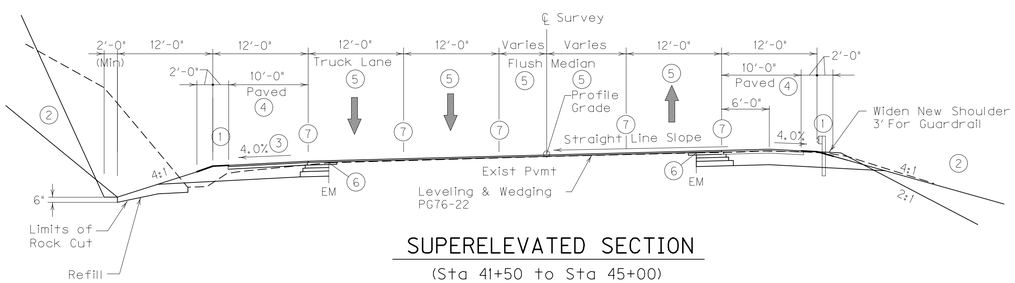
SUPERELEVATED SECTION

(Sta 45+00 to Sta 55+18.04)



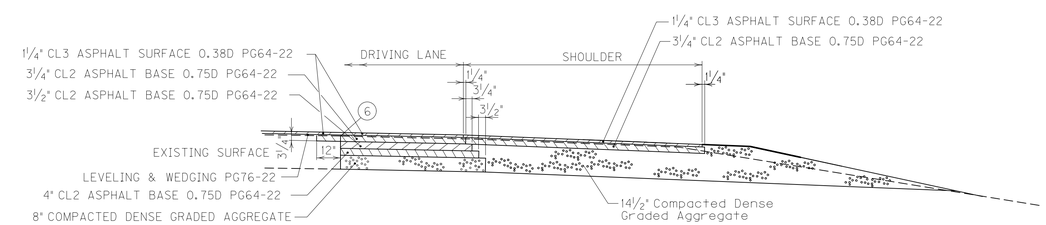
DETAIL "H"

(Sta 49+00 to Sta 51+50)



SUPERELEVATED SECTION

(Sta 41+50 to Sta 45+00)



DETAIL "G"

NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT
USING

US 25 PAVEMENT DESIGN

DRIVING LANES

APPROX 18¾" BASE
- 8" COMPACTED DENSE GRADED AGGREGATE
- 4" CL2 ASPHALT BASE 0.75D PG64-22
- 3½" CL2 ASPHALT BASE 0.75D PG64-22
- 3¼" CL2 ASPHALT BASE 0.75D PG64-22

APPROX 1¼" SURF
- 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22

SHOULDERS

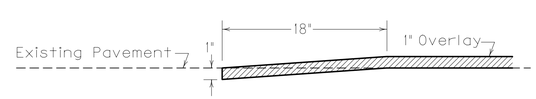
APPROX 17¾" BASE
- 14½" COMPACTED DENSE GRADED AGGREGATE
- 3¼" CL2 ASPHALT BASE 0.75D PG64-22

APPROX 1¼" SURF
- 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22

DRIVING LANE OVERLAY

APPROX ½"± BASE
- LEVELING & WEDGING PG76-22

APPROX 1¼" SURF
- 1¼" CL3 ASPHALT SURFACE 0.38D PG64-22



EDGE KEY DETAIL

Work under this item shall include cutting out the existing bituminous surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for "EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.

1. Asphalt Seal Coat Required from the Outside Edge of the Paved Shoulder to a Point 2' Down the Ditch or Fill Slope. Two (2) Applications at the rate of:
   2.40 lbs/S.Y. Asphalt Seal Coat
   20 lbs/S.Y. Item 100 Asphalt Seal Aggregate (Size No. 8 or 9MM)
2. See Cross Sections for Slopes Outside the Limits of the Shoulder
3. Superelevated Shoulders, Construct to Standard Superelevation Except Not Flatter than Slopes Indicated For Normal Shoulders.
4. 10' Paved Shoulder Without Guardrail
   12' Paved Shoulder With Guardrail
5. For Median And Lane Transitions See Plan Sheets.
6. Longitudinal Saw Cut (3¼" deep) at Existing Edge of Pavement and Construct Longitudinal Edge Key to Provide for New Pavement Match-Up. See Detail H.
7. Place Longitudinal Pavement Joint Adhesive at All Longitudinal Joints in the Surface Course. See Special Note for Details.

TYPICAL SECTIONS

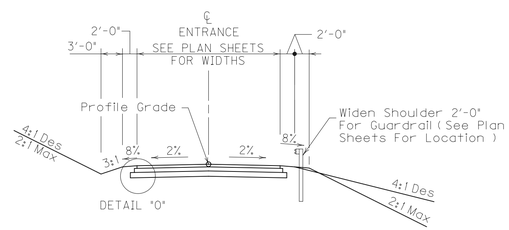
FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020DTS.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020DTS
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2e

TYPICAL SECTIONS

ENTRANCES

(SEE PLAN SHEETS FOR LOCATION)



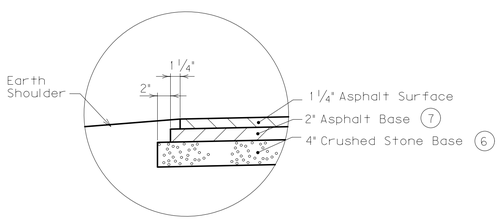
NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT

USING

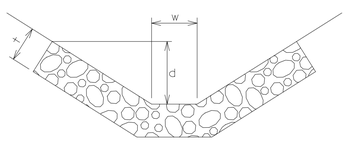
APPROXIMATELY 6" BASE	3	4" COMPACTED DEPTH CRUSHED STONE (1) AND
	212	2" COMPACTED DEPTH CL2 ASPHALT BASE 1.00D PG64-22 (2)
APPROXIMATELY 1 1/4" SURFACE	307	1 1/4" COMPACTED DEPTH CL3 ASPHALT SURFACE 0.38D PG64-22

(1) 9" COMPACTED DEPTH CRUSHED STONE BASE FOR COMMERCIAL ENTRANCES OR MATCH EXISTING IF GREATER

(2) 4" COMPACTED DEPTH CL2 ASPHALT BASE 1.00D PG64-22 FOR COMMERCIAL ENTRANCES OR MATCH EXISTING IF GREATER



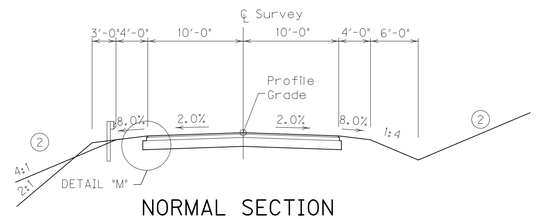
DETAIL "O"



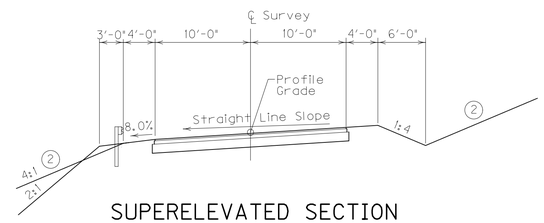
TYPICAL SECTION
CHANNEL LINING

w = Width t = Thickness d = Depth to Protect	SEE PLAN NOTES FOR VALUES

FRONTAGE ROAD



NORMAL SECTION



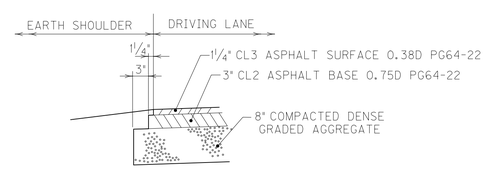
SUPERELEVATED SECTION

NEW CONSTRUCTION
GRADE, DRAIN & FLEXIBLE PAVEMENT

USING

FRONTAGE ROAD

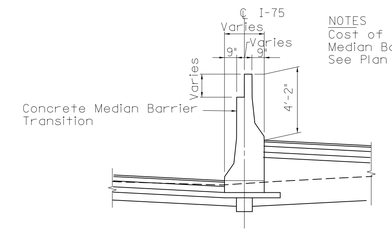
APPROX 11" BASE	8" COMPACTED DENSE GRADED AGGREGATE 3" CL2 ASPHALT BASE 0.75D PG64-22
APPROX 1 1/4" SURF	1 1/4" CL3 ASPHALT SURFACE 0.38D PG64-22



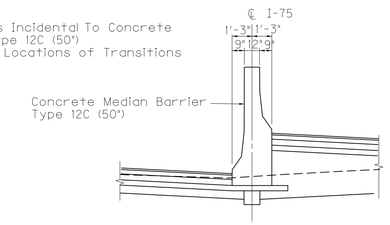
DETAIL "M"

BRIDGE BARRIER TO ROADWAY BARRIER WALL TRANSITION DETAIL

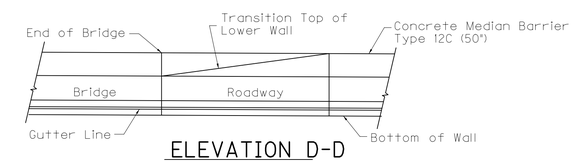
NOTES
Cost of Transition is Incidental To Concrete Median Barrier WallType 12C (50")
See Plan Sheets for Locations of Transitions



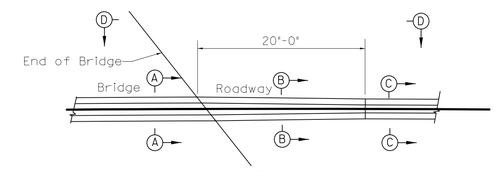
SECTION B-B



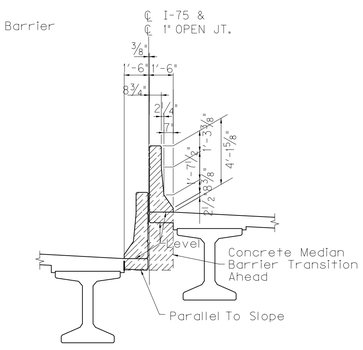
SECTION C-C



ELEVATION D-D



PLAN



SECTION A-A

TYPICAL SECTIONS

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R002OETS.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R002OETS
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2f

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	I-75	RAMP A	RAMP B	RAMP B-1	RAMP C	RAMP C-1	RAMP D	RAMP D-1	FRONTAGE ROAD	US 25					TOTAL PROJECT	
78	CRUSHED AGGREGATE SIZE NO 2	TON	30	5	6	1	3	1	4								50	1
1000	PERFORATED PIPE - 4 INCH	LIN FT	8659	1531	1506	183	1055	298	936	453							14621	
1001	PERFORATED PIPE - 6 INCH	LIN FT	22839														22839	
1010	NON PERFORATED PIPE - 4 INCH	LIN FT	323	57	61	13	40	9	29	21							553	
1011	NON PERFORATED PIPE - 6 INCH	LIN FT	212														212	
1015	INSPECT & CERTIFY EDGE DRAIN SYSTEM	LP SUM															1	
1020	PERF PIPE HEADWALL TYPE 1 - 4"	EACH	11	1	2				1								15	
1024	PERF PIPE HEADWALL TYPE 2 - 4"	EACH	2						2								4	
1028	PERF PIPE HEADWALL TYPE 3 - 4"	EACH	14	4	4	1	3	1	1								28	
1032	PERF PIPE HEADWALL TYPE 4 - 4"	EACH	3														3	
1875	STANDARD HEADER CURB	LIN FT	1130									250					1380	
1890	ISLAND HEADER CURB TYPE 1	LIN FT	52														52	
1982	DELINEATORS FOR GUARDRAIL - M/W	EACH	271	9	21		12		14	4	8	18					357	
1983	DELINEATORS FOR GUARDRAIL - M/Y	EACH		9													9	
1984	DELINEATORS FOR BARRIER WALL - WHITE	EACH	950														950	2
1985	DELINEATORS FOR BARRIER WALL - YELLOW	EACH	936														936	3
2003	RELOCATE TEMP CONC MED BARRIER	LIN FT															82550	
2159	TEMPORARY DITCH	LIN FT															19875	
2160	CLEAN TEMPORARY DITCH	LIN FT															7938	
2200	ROADWAY EXCAVATION	CU YD	565553	75694	53350	663	80399	9830	3839	568	20907	27875					838782	4
2223	GRANULAR EMBANKMENT	CU YD	7000														7000	5
2242	WATER (FOR DUST CONTROL)	MGAL															1250	6
2262	FENCE-WOVEN WIRE TYPE 1	LIN FT	8173	882							1177						10232	
2363	GUARDRAIL CON TO BR END TYPE A	EACH	4														4	
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH	25		1		2		1		1						30	
2381	REMOVE EXISTING GUARDRAIL	LIN FT	20663	412	502		716		412	215	923	1623					25466	
2387	GUARDRAIL CON TO BR END TYPE A-1	EACH	4														4	
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	5	2	1				1		2	1					12	
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	34	3							6						43	
2432	WITNESS POST	EACH	3														3	
2482	CHANNEL LINING CLASS IA	TON	414	35													479	7
2483	CHANNEL LINING CLASS II	TON	1294	85	341	160	105			105	505	840					3435	
2484	CHANNEL LINING CLASS III	TON	672	56			431		150	37	300	60					2236	8
2545	CLEARING AND GRUBBING	LP SUM															1	9
2562	TEMPORARY SIGNS	SQ FT	324	35	44	39	35	12	74	63	69	75					770	10
2568	MOBILIZATION	LP SUM															1	
2569	DEMOBILIZATION	LP SUM															1	
2585	EDGE KEY	LIN FT									35						35	
2599	FABRIC-GEOTEXTILE TYPE III	SQ YD	24000														24000	11
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM															1	
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH															8	13
2690	SAFE LOADING	CU YD	46									8					54	
2696	SHOULDER RUMBLE STRIPS SAWED	LIN FT	37841	3425	3440	350	3997	277	2747	436		2168					54681	
2701	TEMPORARY SILT FENCE	LIN FT															15875	
2703	SILT TRAP TYPE A	EACH															192	
2704	SILT TRAP TYPE B	EACH															192	
2705	SILT TRAP TYPE C	EACH															192	
2706	CLEAN SILT TRAP TYPE A	EACH															192	
2707	CLEAN SILT TRAP TYPE B	EACH															192	
2708	CLEAN SILT TRAP TYPE C	EACH															192	

NOTES

1. FOR PERFORATED PIPE HEADWALLS
2. 936 FOR PERMANENT MEDIAN BARRIER (SEE MOT NOTES SHEET) AND 14 FOR OUTSIDE BRIDGE BARRIERS
3. 936 FOR PERMANENT MEDIAN BARRIER (SEE MOT NOTES SHEET)
4. INCLUDES 104 CY CARRIED OVER FROM PIPE DRAINAGE SUMMARY
5. 3880 CU YD FOR WORKING PLATFORM FOR EMBANKMENT CONSTRUCTION
   3120 CU YDS FOR SUBGRADE STABILIZATION
6. FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY
7. 30 TONS CARRIED OVER FROM PIPE DRAINAGE SUMMARY
8. 530 TONS CARRIED OVER FROM PIPE DRAINAGE SUMMARY
9. 96 ACRES. INCLUDES REMOVAL OF PIPE CULVERTS AS SHOWN ON THE PLANS OR PIPE SECTIONS.
10. CONSTRUCTION SIGNS
11. 13000 SQ YD FOR WORKING PLATFORM FOR EMBANKMENT CONSTRUCTION
    11000 SQ YD FOR SUBGRADE STABILIZATION
12. INCLUDES 3727 CY EMBANKMENT CARRIED OVER FROM GUARDRAIL SUMMARY
13. QUANTITY IS IN ADDITION TO THOSE REQUIRED BY BID ITEM 24873EC "CONTROL SYSTEM FOR INCIDENT MANAGEMENT".

TOTAL PROJECT EARTHWORK

125368	CU YD	EMB	12
229776	CU YD	COM	4
567970	CU YD	ROCK	
2356	CU YD	REFILL	
37547	CU YD	EMB BENCH	
1133	CU YD	SURF DITCH	

GENERAL SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020FSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020FSU
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2g

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	I-75	RAMP A	RAMP B	RAMP B-1	RAMP C	RAMP C-1	RAMP D	RAMP D-1	FRONTAGE ROAD	US 25					TOTAL PROJECT	
2726	STAKING	LP SUM															1	
2731	REMOVE EXISTING BRIDGE (NB)	LP SUM															1	1
2731	REMOVE EXISTING BRIDGE (SB)	LP SUM															1	1
2731	REMOVE EXISTING BRIDGE (NB)	LP SUM															1	2
2731	REMOVE EXISTING BRIDGE (SB)	LP SUM															1	2
2775	ARROW PANEL	EACH															6	
2898	RELOCATE CRASH CUSHION	EACH															11	
3171	CONCRETE BARRIER WALL TYPE 9T	LIN FT															52565	
3425	ADJUST WATER VALVE	EACH								1							1	
5950	EROSION CONTROL BLANKET	SQ YD	4952		573		805			190	300	312					7132	
5952	TEMPORARY MULCH	SQ YD															1858560	
5953	TEMPORARY SEEDING AND PROTECTION	SQ YD															464640	
5963	INITIAL FERTILIZER	TON															23	
5964	20-10-10 FERTILIZER	TON															23	
5985	SEEDING AND PROTECTION	SQ YD															437950	
6401	FLEXIBLE DELINEATOR POST M/W 11	EACH	593	40	44	8	45	6	38	10							784	
6404	FLEXIBLE DELINEATOR POST M/Y 11	EACH		6	23		34		14								77	
6511	PAVE STRIPING-TEMP PAINT-6 IN	LIN FT															361795	
6540	PAVE STRIPING-THERMO-4 IN W	LIN FT										3880					3880	
6541	PAVE STRIPING-THERMO-4 IN Y	LIN FT									3054	4520					7574	
6542	PAVE STRIPING-THERMO-6 IN W	LIN FT	71817	1779	1776	171	2458	108	918	207							79234	
6543	PAVE STRIPING-THERMO-6 IN Y	LIN FT	46320	1420	1209		1743		758								51450	
6546	PAVE STRIPING-THERMO-12 IN W	LIN FT	3005		647	214	85	190	567	268		346					5322	
6549	PAVE STRIPING-TEMP REM TAPE-B	LIN FT															10000	3
6550	PAVE STRIPING-TEMP REM TAPE-W	LIN FT															10000	3
6551	PAVE STRIPING-TEMP REM TAPE-Y	LIN FT															10000	3
6568	PAVE MARKING-THERMO STOP BAR- 24 IN	LIN FT		69			20				10	48					147	
6569	PAVE MARKING-THERMO CROSS-HATCH	SQ FT			582		236		433			518					1769	
6572	PAVE MARKING-DOTTED LANE EXTEN	LIN FT										20					20	
6574	PAVE MARKING-THERMO CURV ARROW	EACH		10			11					17					38	
6578	PAVE MARKING-THERMO MERGE ARROW	EACH	3		3												6	
6585	PAVEMENT MARKER TYPE IVA-MW TEMP	EACH															10366	
6586	PAVEMENT MARKER TYPE IVA-MY TEMP	EACH															4476	
8100	CONCRETE CLASS A	CU YD	3.77														3.77	9
8150	STEEL REINFORCEMENT	LBS	163														163	9
8901	CRASH CUSHION TYPE VI CLASS BT-TL-2	EACH															2	
8903	CRASH CUSHION TYPE VI CLASS BT-TL-3	EACH															7	
10020NS	FUEL ADJUSTMENT	DOLL															190100	
10030NS	ASPHALT ADJUSTMENT	DOLL															208000	
20191ED	OBJECT MARKER TY 3	EACH	4	2	1				1		2	2					12	4
20411ED	LAW ENFORCEMENT OFFICER	HOUR															500	4
20629NS719	THRIE BEAM TO W BEAM CONNECTOR	EACH	2														2	
21380ES719	GUARDRAIL-THRIE BEAM	LIN FT	1182.5														1182.5	
21417ES717	PAVE MARKINGS THERMO CONE SOLID YELLOW	SQ FT										541					541	
21430ES508	CONCRETE MEDIAN BARRIER TY 12C (50)	LIN FT	21534														21534	
21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	LIN FT	20800	612.5	512.5		750		925		400	850					24850	
23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	LIN FT															147	12
23979EC	CRASH CUSHION TYPE VI CLASS C TL3	EACH	1														1	
24255EC	REMOVE CABLE GUARDRAIL BARRIER SYSTEM	LIN FT	22412														22412	5
24489EC	INLAID PAVEMENT MARKER	EACH	1448	28	62	5	44	5	39	10		128					1769	6
24707ED	CABLE BARRIER SYSTEM REMOVE AND RESTORE	LP SUM	1														1	10
24814EC	PIPELINE INSPECTION	LIN FT															12900	7
24873EC	CONTROL SYSTEM FOR INCIDENT MANAGEMENT	LP SUM															1	8

NOTES

1. TWIN 42'×85'×62' SIMPLE SPAN COMPOSITE STEEL BRIDGE (US 25)
2. TWIN 70' SIMPLE SPAN WELDED PLATE GIRDER BRIDGE (ROSE HILL/LAKE LINVILLE RD)
3. FOR MOT - ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER
4. SEE NOTE IN MOT NOTES SHEET FOR DETAILS. ESTIMATED QUANTITY - USE AS DIRECTED BY THE ENGINEER
5. THE REMOVED CABLE IS TO BE DELIVERED TO THE BAILEY BRIDGE YARD IN FRANKFORT JUST LIKE REMOVED GUARDRAIL AS DESCRIBED ON THE GUARDRAIL DELIVERY VERIFICATION SHEET INCLUDED IN THE PROPOSAL. THE POSTS ARE TO BE DELIVERED TO THE ROCKCASTLE COUNTY MAINTENANCE GARAGE.
6. SEE SPECIAL NOTE IN THE PROPOSAL
   M W = 39 EA
   B Y = 89 EA
   B W/R = 1575 EA
   B Y/R = 66 EA
7. INCLUDES INSPECTION OF EXISTING CULVERTS AND STORM SEWERS
8. SYSTEM TO INCLUDE 12 PORTABLE CHANGEABLE MESSAGE SIGNS THAT CAN COMMUNICATE SEAMLESSLY WITH THE VER-MAC JAMLOGIC SMART WORKZONE SYSTEM USED ON THE ADJACENT PROJECT. SEE SPECIAL NOTE IN THE PROPOSAL.
9. FOR CONCRETE MEDIAN BARRIER END. SEE STD DWG RBE-065-07 AND PLAN SHEET R3.
10. INCLUDES INSTALLATION OF A NEW CABLE BARRIER END ANCHOR. SHEET R3.
11. DO NOT INSTALL IN LOCATIONS WITH DELINEATORS ON THE GUARDRAIL.
12. USE AS DIRECTED BY THE ENGINEER

GENERAL SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020GSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020GSU
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2h

GUARDRAIL SUMMARY

GUARDRAIL STATION TO STATION	STEEL "W" BEAM GUARDRAIL				GUARDRAIL END TREATMENT				BRIDGE END CONN. TY. A	BRIDGE END CONN. TY. A-1	OBJECT MARKER TYPE 3	EMBANKMENT			REMARKS
	SF ②	DF	THRIE BEAM SF	THRIE BEAM TO W BEAM CONNECTOR	2A	3	4A								
	LINEAR FEET				EACH							CU YDS			
I-75															
LT STA 3165+72.28 - 3170+00	520.2														Connect To Existing GR
LT STA 3170+00 - 3175+50	554.0				1							245			W=25', Flare=375'
RT STA 3170+50 - 3185+00	1430.7						1				1	23			
LT STA 3183+00 - 3185+00	196.5				1										
RT STA 3185+00 - 3189+00	403.1				1										
LT STA 3185+00 - 3192+00	692.9				1							165			W=19', Flare=285'
LT STA 3210+50 - 3215+00	449.6				1										
LT STA 3215+00 - 3230+00	1500														
RT STA 3216+50 - 3230+00	1350.6				1							185			W=19', Flare=285'
LT STA 3230+00 - 3245+00	1500														
RT STA 3230+00 - 3243+50	1350				1										
LT STA 3245+00 - 3247+95	295				1							470			W=33', Flare=363'
LT STA 3263+59.2 - 3265+55.9	200				1					1					
LT STA 3268+04.5 - 3271+47	350				1				1			225			W=22', Flare=330'
RT STA 3261+99 - 3266+41.9	400						1		1		1	32			
RT STA 3269+03.8 - 3275+00	586.3									1					
RT STA 3275+00 - 3276+92	188.7				1										
RT STA 3288+00 - 3290+00	157.2				1							95			W=16', Flare=176'
LT STA 3289+00 - 3290+00			100	1	1										
LT STA 3290+00 - 3300+73.90			1082.5	1						1					
RT STA 3290+00 - 3301+19	1107.3								1						
LT STA 3301+36.8- 3304+49.3	275						1		1		1	52			
RT STA 3301+81.9 - 3305+00	318									1					
RT STA 3305+00 - 3314+50	950.1				1										
RT STA 3322+00 - 3335+00	1301.4				1							250			W=17', Flare=255'
LT STA 3327+50 - 3335+00	750				1										
LT STA 3335+00 - 3337+50	250.5				1							430			W=27', Flare=405'
RT STA 3335+00 - 3336+00	100				1										
RT STA 3340+00 - 3344+50	397.7				2							235			W=17', Flare=255'
LT STA 3355+50 - 3364+50	861.2				1		1					55			
RT STA 3351+50 - 3362+50	1100				2							325			W=17', Flare=255'
LT STA 3374+50 - 3380+00	550				1										
LT STA 3380+00 - 3382+50	212.6						1				1	11			
RT STA 3394+00 - 3395+00	100				1							290			W=23', Flare=345'
RT STA 3395+00 - 3399+02	400														Connect To Existing GR
TOTALS ①	**20800**		**1182.5**	2	**25**		**5**		**4**	**4**	**4**	**3297**			
RAMP A															
LT STA 116+50 - 119+67.10	274.1						1				1	44			
RT STA 116+50 - 120+20.40	334.6						1				1	53			
TOTALS ①	**612.5**						**2**				**2**	**97**			
RAMP B															
RT STA 203+00 - 208+50	512.5				1		1				1	10			
TOTALS ①	**512.5**				**1**		**1**				**1**	**10**			
RAMP C															
RT STA 303+50 - 310+00	650				1							175			W=16', Flare=176'
RT STA 310+00 - 311+00	100				1										
TOTALS ①	**750**				**2**							**175**			
RAMP D															
RT STA 601+00 (Ramp D-1) -	925				1		1				1	48			
- RT STA 410+00 (Ramp D)															
TOTALS ①	**925**				**1**		**1**				**1**	**48**			

① Quantities carried over to the General Summary.

② 7 FT POST

GUARDRAIL SUMMARY

MicroStation v8.11.7.443 E-SHEET NAME: R0020HSU USER: tvonbehren DATE PLOTTED: November 6, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020HSU.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R21

GUARDRAIL SUMMARY

GUARDRAIL STATION TO STATION	STEEL "W" BEAM GUARDRAIL				GUARDRAIL END TREATMENT				BRIDGE END CONN. TY. A	BRIDGE END CONN. TY. A-1	OBJECT MARKER TYPE 3	EMBANKMENT			REMARKS
	SF ②	DF	THRIE BEAM SF		2A	3	4A								
	LINEAR FEET				EACH							CU YDS			
US 25															
RT STA 47+50 - 50+00	215.9						1				1	37			
RT STA 50+00 - 53+60.6	420.1														
RT STA 54+19.9 - 56+50	205.2						1				1	43			
TOTALS ①	850						2				2	80			
FRONTAGE ROAD															
RT STA 30+00 - 33+00	312.5				1						1				Connect To Existing GR
RT STA 41+00 - 41+80	87.5						1				1	20			Connect To Existing GR
TOTALS ①	400				1		1				2	20			
PROJECT TOTALS ①	24850		1182.5		30		12		4	4	12	3727			

① Quantities carried over to the General Summary.

② 7 FT POST

GUARDRAIL SUMMARY

MicroStation v8.11.7.443 E-SHEET NAME: R0020ISU USER: tvonbehren DATE PLOTTED: November 6, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020ISU.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	2J

PAVING AREAS

ITEM CODE	ITEM	I-75	RAMP A	RAMP B	RAMP B-1	RAMP C	RAMP C-1	RAMP D	RAMP D-1	US 25	SOUTH APPROACH	FRONTAGE RD	FRONTAGE RD ENTRANCES	MOT										TOTAL PROJECT
		S Q U A R E Y A R D S																						
1	4" COMPACTED DENSE GRADED AGGREGATE ⑦												280	274										554
1	6" COMPACTED DENSE GRADED AGGREGATE	107,332	2,674	9,226	832	6,434	612	3,346	1053															131,509
1	8" COMPACTED DENSE GRADED AGGREGATE									2,175		2,644												4,819
1	14½" COMPACTED DENSE GRADED AGGREGATE									2,332														2,332
1	FULL DEPTH COMPACTED DENSE GRADED AGGREGATE (SHOULDERS) ①	3,649	982	985	115	994	72	655	106	689														8,247
24965EC	FULL DEPTH COMPACTED CRUSHED STONE BASE - MODIFIED ①	29,880																						29,880
8	CEMENT STABILIZED ROADBED	163,663	2,845	9,458	870	6,624	635	3,432	1,084															188,611
18	4" DRAINAGE BLANKET TY II	117,199	2,845	9,458	870	6,624	612	3,432	1,053															142,093
100	ASPHALT SEAL AGGREGATE (20 LBS/SY 2 APPLICATIONS)	37,090	3,714	3,375	324	3,598	188	2,374	588	2,426														53,677
103	ASPHALT SEAL COAT (2.40 LBS/SY 2 APPLICATIONS)	37,090	3,714	3,375	324	3,598	188	2,374	588	2,426														53,677
194	APPROX ½"± BASE LEVEL & WEDGE ASPHALT BASE PG 76-22	156,379	4,767	2,227		2,535		3,845		7,617	763													178,133
194	APPROX 2" ± BASE LEVEL & WEDGE ASPHALT BASE PG 76-22 ②	5,639																						5,639
214	3¼" CL3 ASPHALT BASE 1.00D PG 64-22 ③	77,577	1,838	1,798	241	2,589	157	1,041	335															85,576
208	4½" CL4 ASPHALT BASE 1.50D PG 64-22 ④	82,423	895	7,479	615	3,854	469	2,328	731															98,794
205	4½" CL3 ASPHALT BASE 1.50D PG 64-22 ⑤	75,863	1,838	1,798	241	2,589	157	1,041	335															83,862
219	3¼" CL4 ASPHALT BASE 1.00D PG 76-22 ⑥	88,253	1,113	7,586	604	4,063	463	2,529	718															105,329
221	2" CL2 ASPHALT BASE 0.75D PG 64-22												273											273
221	3" CL2 ASPHALT BASE 0.75D PG 64-22											2,710												2,710
221	3¼" CL2 ASPHALT BASE 0.75D PG 64-22									4,703														4,703
221	3½" CL2 ASPHALT BASE 0.75D PG 64-22									1,930														1,930
221	4" CL2 ASPHALT BASE 0.75D PG 64-22 ⑦									2,046				274										2,320
339	1" CL3 ASPHALT SURFACE 0.38D PG 64-22 ⑧													74,868										74,868
339	1¼" CL3 ASPHALT SURFACE 0.38D PG 64-22	116874	2,668	2,119	241	2,765	157	1,993	335	12,521	582	2,617	268											143,140
342	1¼" CL4 ASPHALT SURFACE 0.38A PG 76-22	196,460	4,720	8,904	600	6,208	460	5,158	713		943													224,166
358	1.6 LBS/SY ASPHALT CURING SEAL	163,663	2,845	9,458	870	6,624	635	3,432	1,084															188,611
358	2.0 LBS/SY ASPHALT CURING SEAL	163,663	2,845	9,458	870	6,624	635	3,432	1,084															188,611
2542	CEMENT (.06 x 108 LBS/CU FT)	163,663	2,845	9,458	870	6,624	635	3,432	1,084															188,611
2702	5.0 LBS/SY SAND FOR BLOTTER	327,326	5,690	18,916	1,740	13,248	1,270	6,864	2,168															377,222
2676	1" ASPHALT PAVEMENT MILLING & TEXTURING ⑧													74,868										74,868
2676	1¼" ASPHALT PAVEMENT MILLING & TEXTURING									205	1,470													1,675
20071EC	JOINT ADHESIVE (SHOWN LIN FT)	192,992	6,886	9,616	1034	8,488	784	7,272	1,330	8,490	1,720	1,189												239,801
21289ED	LONGITUDINAL EDGE KEY (SHOWN LIN FT)	55,017	2,692	2,141		3,058		2,221		3,400														68,529

NOTES
① QUANTITY SHOWN IN CUBIC YARDS
② 5,639 SY ADDED FOR OVERLAY AT US 25 BRIDGE
③ 527 SY ADDED FOR OVERLAY AT US 25 BRIDGE
④ 873 SY ADDED FOR OVERLAY AT US 25 BRIDGE
⑤ 196 SY ADDED FOR OVERLAY AT US 25 BRIDGE
⑥ 2,163 SY ADDED FOR OVERLAY AT US 25 BRIDGE
⑦ 274 SY SHOWN FOR US 25 MOT
⑧ SEE MOT TYPICAL NO. 1 IN PHASE 1 MOT PLANS

PAVING AREAS

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020JSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020JSU
MicroStation v8.11.7.443

PAVING SUMMARY

ITEM CODE	ITEM	UNIT					TOTAL PROJECT	
1	DENSE GRADED AGGREGATE ①	TON					66,730	
8	CEMENT STABILIZED ROADBED	SQ YDS					188,611	
18	DRAINAGE BLANKET TY II ②	TON					28,419	
100	ASPHALT SEAL AGGREGATE	TON					1,074	
103	ASPHALT SEAL COAT	TON					129	
194	LEVEL & WEDGE ASPHALT BASE PG76-22	TON					5,519	
205	CL3 ASPHALT BASE 1.50D PG 64-22	TON					15,297	
208	CL4 ASPHALT BASE 1.50D PG 64-22	TON					24,452	
214	CL3 ASPHALT BASE 1.00D PG 64-22	TON					20,756	
219	CL4 ASPHALT BASE 1.00D PG 76-22	TON					18,828	
221	CL2 ASPHALT BASE 0.75D PG 64-22	TON					2,200	
339	CL3 ASPHALT SURFACE 0.38D PG 64-22	TON					13,959	
342	CL4 ASPHALT SURFACE 0.38A PG 76-22	TON					15,411	
358	ASPHALT CURING SEAL	TON					340	
2542	CEMENT	TON					3,685	
2702	SAND FOR BLOTTER	TON					943	
2676	MOBILIZATION FOR MILLING & TEXTURING	LP SUM					1	
2677	ASPHALT PAVEMENT MILLING & TEXTURING	TON					4,233	
20071EC	JOINT ADHESIVE	LIN FT					239,801	
21289ED	LONGITUDINAL EDGE KEY	LIN FT					68,529	
24781EC	INTELLIGENT COMPACTION OF ASPHALT	TON					144,175	④
24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT	SQ FT					4,669,000	④
24965EC	CRUSHED STONE BASE - MODIFIED	TON					61,852	④

NOTES

ALL ASPHALT 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 100 LBS. PER SQ. YD. PER INCH OF DEPTH.

③ ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH.

④ SEE SPECIAL NOTE IN THE PROPOSAL

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2L

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	ENTRANCE PIPE 15 INCH	CULVERT PIPE 15 INCH	CULVERT PIPE 18 INCH	CULVERT PIPE 24 INCH	CULVERT PIPE 30 INCH	CULVERT PIPE 36 INCH	CULVERT PIPE 72 INCH		STORM SEWER PIPE - 15 IN	STORM SEWER PIPE - 18 IN	STORM SEWER PIPE - 24 IN	STORM SEWER PIPE - 30 IN		PIPE CULVERT HEADWALL 15 INCH	PIPE CULVERT HEADWALL 18 INCH	PIPE CULVERT HEADWALL 24 INCH	PIPE CULVERT HEADWALL 30 INCH	PIPE CULVERT HEADWALL 36 INCH	PIPE CULVERT HEADWALL 72 INCH	METAL END SECTION TYPE 2 18 INCH	SLOPED BOX OUTLET TY I-15 INCH		S & F BOX INLET OUTLET 18 INCH	S & F BOX INLET OUTLET 24 INCH	S & F BOX INLET OUTLET 30 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	REMARKS
ITEM CODE					440	461	462	464	466	468	474		521	522	524	526		1202	1204	1208	1210	1212	24025EC	1381	1432		1450	1451	1452	1480	1490	1493	1505	
UNIT TO BID			FEET		LIN FT													EACH																
I-75																																		
R160	3164+32.8 - 3165+53	0°	7	MED									119												1									
R160	3166+68	0°	3	MED										81					1															18" S&F Headwall
R160	3166+68 - 3167+18	0°	4	MED									48																					
R160	3167+18	0°	3	MED																														
R161	3167+18 - 3167+68	0°	3	MED									48																					
R161	3167+68	0°	2	MED																														
R161	3167+68 - 3169+48	0°	2	MED									178																					
R161	3169+53	0°	4	MED				12																				1						
R5	3172+59.4	45° Sk Lt	(Exist	Pipe)																														
R162	3174+03	0°	4	MED										4																				
R162	3174+03 - 3177+50	0°	5	MED									345																					
R163	Lt 3173+04.6-3175+60.4	0°	3	MED			257												1					1										18" S&F Headwall
R164	3181+51.90	0°	2	MED									4																					
R164	3181+51.9 - 3184+50	0°	2	MED									296																					
R5	3184+39.7	25° Sk Rt	(Exist	Pipe)																														
R165	3189+24	0°	3	MED									5																					
R165	3189+24 - 3192+50	0°	2	MED									324																					
R166	Lt 3189+54.6-3192+43.7	0°	3	MED				286												1														24" S&F Headwall
R167	3192+50 - 3195+50	0°	2	MED									298																					
R168	3207+96.6 - 3210+50		(Exist	Pipe)																														
R168	3207+96.60	0°	5	MED									4																					
R168	3210+50	0°	5	MED									8																					
R168	3210+59.20	30° Rt	(Exist	Pipe)																														
R169	3213+90	0°		MED																														
R169	3213+90 - 3213+99.40	0°	2	MED									7																					
R169	3213+99.40	30° Rt	2	MED											10																			
R170	Rt 3216+00.3-3217+48.5	0°	2	MED										145										1										
R170	3217+95.70	30°10' Rt	3	MED										13																	1			
R171	3219+97.50	0°	3	MED		4																												
R171	3227+99.10	0°	3	MED		5																												
R171	3235+00 - 3235+75	0°	2	MED									73																					
R172	3235+75 - 3235+98.5	0°	3	MED									22																					
R172	3235+98.50	0°	4	MED										4																				
R172	3243+01	0°	4	MED									6																					
R173	3248+50 - 3251+50	0°	2	MED									298																					
R174	3251+50 - 3254+50.80	0°	3	MED									298																					
R174	3254+50.80	30° Rt	3	MED									31												1									
R174	3259+00 - 3259+65	0°	3	MED									63																					
R175	3259+65 - 3262+73.30	0°	2	MED									307																					
R175	3262+73.30	0°	2	MED									6																					
R18	3265+23.4	45°00' Lt	(Exist	Pipe)																														
R175	3265+71.40	35°55' Lt	2	MED									4																					

PIPE DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020LSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020LSU
MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2m

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	DROP BOX INLET TYPE 7	DROP BOX INLET TYPE 13G	DROP BOX INLET TYPE 13S	CAP DROP BOX INLET	ASYM CONC MED BARRIER BOX INLET TYPE 12AIL-50 ①	CONC MED BARRIER BOX INLET TYPE 12BI-50	CONC MED BARRIER BOX INLET TYPE 12B2-50	ASYM CONC MED BARRIER BOX INLET TYPE 12B2-50 ①	JUNCTION BOX	ADJUST INLET	MANHOLE TYPE A	MANHOLE TYPE B	MANHOLE TYPE C	ROADWAY EXCAVATION	CHANNEL LINING CLASS IA	CHANNEL LINING CLASS III	GEOTEXTILE FABRIC TY IV FOR PIPE	BORE & JACK PIPE 24 INCH	BORE & JACK PIPE 18 INCH	S CIPP LINER 15 INCH ③	S CIPP LINER 18 INCH ③	S CIPP LINER 24 INCH ③	S CIPP LINER 30 INCH ③	S CIPP LINER 36 INCH ③	S CIPP LINER 54 INCH ③	S CIPP LINER 60 INCH ③	S CIPP LINER 72 INCH ③	ASYM CONC MED BARRIER BOX INLET TYPE 12BIH-50 ①	ASYM CONC MED BARRIER BOX INLET TYPE 12BIL-50 ①	REMARKS
ITEM CODE					1538	1559	1568	1584	22620NN	23611NN	21602NN	21602NN	1650	1719	1756	1761	1767	2200	2482	2484	2600	21799EN	23126EN	15124	15125	15007	15128	15129	15132	15133	15135	23611NN	23611NN	
UNIT TO BID ON			FEET		EACH													CU YD	TONS		SQ YD	LIN FT												
	I-75																																	
R160	3164+32.8 - 3165+53	0°	7	MED				1													196			52										
R160	3166+68	0°	3	MED																6	45		② 53										1	(y=1.78') 18" S&F Headwall
R160	3166+68 - 3167+18	0°	4	MED																	80													
R160	3167+18	0°	3	MED					1																									(y=1.77')
R161	3167+18 - 3167+68	0°	3	MED																	80													
R161	3167+68	0°	2	MED																													1	(y=1.78')
R161	3167+68 - 3169+48	0°	2	MED																	280												1	(y=1.77')
R161	3169+53	0°	4	MED														4			23					85								
R5	3172+59.4	45° Sk Lt	(Exist	Pipe)																											164			
R162	3174+03	0°	4	MED																	10				38								1	(y=1.78')
R162	3174+03 - 3177+50	0°	5	MED																	540												1	(y=1.77')
R163	Lt 3173+04.6-3175+60.4	0°	3	MED																	444													18" S&F Headwall
R164	3181+51.90	0°	2	MED																	10			80									1	(y=1.78')
R164	3181+51.90 - 3184+50	0°	2	MED																	487												1	(y=1.78')
R5	3184+39.7	25° Sk Rt	(Exist	Pipe)																									136					
R165	3189+24	0°	3	MED																	10			40									1	(y=1.77')
R165	3189+24 - 3192+50	0°	3	MED																	535												1	(y=1.77')
R166	3189+54.6 - 3192+43.7	0°		MED														8	10		548													24" S&F Headwall
R167	3192+50 - 3195+50	0°	2	MED																	490												1	
R168	3207+96.6 - 3210+50		(Exist	Pipe)																				125										
R168	3207+96.60	0°	5	MED																	5												1	(y=1.77')
R168	3210+50	0°	5	MED																	10												1	(y=1.02')
R168	3210+59.20	30° Rt	(Exist	Pipe)																				125				90						
R169	3213+90	0°	2	MED							1																							
R169	3213+90 - 3213+99.40	0°	2	MED																	15													
R169	3213+99.40	30° Rt	2	MED									1								19					92								
R170	Rt 3216+00.3-3217+48.5	0°	2	MED																	250													
R170	3217+95.70	30°10' Rt	3	MED																	25				92									
R171	3219+97.50	0°	3	MED							1										10			44										
R171	3227+99.10	0°	3	MED							1										10			41	92									
R171	3235+00 - 3235+75	0°	2	MED																	120											1		(y=0.20')
R172	3235+75 - 3235+98.5	0°	3	MED																	36											1		(y=0.59')
R172	3235+98.50	0°	4	MED																	10			41									1	(y=0.71')
R172	3243+01	0°	4	MED																	15			46	41								1	(y=1.43')
R173	3248+50 - 3251+50	0°	2	MED																	490			46									1	(y=1.48')
R174	3251+50 - 3254+50.80	0°	3	MED																	490												1	(y=1.53')
R174	3254+50.80	30° Rt	3	MED																	50			44									1	(y=0.43')
R174	3259+00 - 3259+65	0°	3	MED																	102											1		(y=0.14')
R175	3259+65 - 3262+73.30	0°	2	MED																	505											1		(y=0.67')
R175	3262+73.30	0°	2	MED																	10			41									1	(y=2.51')
R18	3265+23.4	45°00' Lt	(Exist	Pipe)																											328			
R175	3265+71.40	0°	2	MED																	10			49									1	(y=2.61')

① SEE SHEETS R76B AND R76C FOR ASYM CONC MED BARRIER BOX INLET DETAILS
② SEE NOTE 3 ON SHEET R2q FOR ADDITIONAL INFORMATION
③ SEE NOTE 4 ON SHEET R2q FOR ADDITIONAL INFORMATION

PIPE DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020MSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020MSU
MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2n

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	ENTRANCE PIPE 15 INCH	CULVERT PIPE 15 INCH	CULVERT PIPE 18 INCH	CULVERT PIPE 24 INCH	CULVERT PIPE 30 INCH	CULVERT PIPE 36 INCH	CULVERT PIPE 72 INCH		STORM SEWER PIPE - 15 IN	STORM SEWER PIPE - 18 IN	STORM SEWER PIPE - 24 IN	STORM SEWER PIPE - 30 IN		PIPE CULVERT HEADWALL 15 INCH	PIPE CULVERT HEADWALL 18 INCH	PIPE CULVERT HEADWALL 24 INCH	PIPE CULVERT HEADWALL 30 INCH	PIPE CULVERT HEADWALL 36 INCH	PIPE CULVERT HEADWALL 72 INCH	METAL END SECTION TYPE 2 18 INCH	SLOPED BOX OUTLET TY 1-15 INCH		S & F BOX INLET OUTLET 18 INCH	S & F BOX INLET OUTLET 24 INCH	S & F BOX INLET OUTLET 30 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	REMARKS
ITEM CODE					440	461	462	464	466	468	474		521	522	524	526		1202	1204	1208	1210	1212	24025EC	1381	1432		1450	1451	1452	1480	1490	1493	1505	
UNIT TO BID			FEET		LIN FT													EACH																
R176	3269+41	0°	2	MED		94												1												1				15" S&F Headwall
R176	3272+48.60	0°	3	MED		5																												
R22	3275+04.2	30°' Lt	(Exist Pipe)																															
R177	3277+67.40	0°	9	MED							17												1											72" Pipe Culvert Headwall
R179	3279+98.40	0°	9	MED									7	65					1														1	18" S&F Headwall
R180	3286+00 - 3289+09	0°	2	MED									307																					
R180	3289+09	13° 43' Rt	4	MED										27																	1			Manhole w/Frame & Lid Type 2
R180	Lt 3289+09-3291+65	0°	2	MED										242																				
R182	Rt 3287+52.9-3289+75	0°	1	MED											215																		1	
R181	Rt 3289+75-3291+65	0°	2	MED											183																1			
R182	245.6' Rt 3291+43	0°	5	MED						34												2												2-36" Pipe Culvert Headwalls
R182	3291+65	0°	2	MED											140					1														Manhole w/Frame & Lid Type 2
R183	Lt 3291+65-3294+00	0°	2	MED											237																			
R183	3294+00	0°	1	MED																														
R183	Lt 3294+00-3294+93	0°	3	MED									91																					
R183	3294+00 - 3294+93	0°	2	MED											90																			
R183	3294+93	0°	4	MED										270						1														24" S&F Headwall
R184	Lt 3294+93 - 3295+60	0°	2	MED										62																				
R184	3294+93 - 3296+00	0°	3	MED										105																				
R184	3296+00 - 3298+65	0°	2	MED									263																					
R184	Lt 3295+60 - 3297+50	0°	2	MED										186																				
R185	3298+65 - 3298+90	0°	2	MED									23																					
R185	Lt 3297+50-3300+37.50	0°	2	MED										285																				
R185	3298+90 - 3300+55	0°	2	MED									163																					
R186	3300+55	0°	1	MED																										1				
R186	3300+82.50	0°	1	MED		13												1												1				15" S&F Headwall
R187	3302+20	0°	2	MED										181					1								1							
R187	3303+60.70	15° Rt	9	MED				27												1								1						24" S&F Headwall
R188	3304+00	0°	2	MED			90												1															18" S&F Headwall
R188	3304+00 - 3305+00	0°	2	MED									98																					
R188	3309+37.60	0°	10	MED					46												1								1					30" Pipe Culvert Headwall
R188	3312+97.50	0°	8	MED					31												1								1					30" Pipe Culvert Headwall
R189	3313+97.50	0°	4	MED									17					1																15" S&F Headwall
R189	3325+05	0°	5	MED										139					1															18" S&F Headwall
R190	3325+05 - 3328+00	0°	3	MED									293																					
R190	3328+00 - 3330+35	0°	3	MED									233																					
R190	3330+35 - 3331+00	0°	2	MED									63																					
R191	3331+21.40	0°	(Exist	Pipe)						24												1												36" Pipe Culvert Headwall
R192	3335+45.80	0°	9	MED									52					1																15" S&F Headwall
R192	3335+45.80 - 3336+00	0°	3	MED									52																					
R192	3336+00	0°		MED																														
R193	Lt 3335+54.6-3337+77.9	0°	3	MED			226												1												1			18" S&F Headwall
R194	3344+07.80	14° 58' Rt	10	MED												43					1											1		30" Pipe Culvert Headwall
R194	3344+07.80 - 3344+50	0°	5	MED									40																					
R194	3344+50	0°		MED																														
R195	3344+50 - 3347+80	0°	3	MED									328																					
R195	3347+80 - 3351+10	0°	3	MED									328																					
R195	3351+10 - 3351+50	0°	3	MED									38																					

PIPE DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020NSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020NSU
MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2o

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	DROP BOX INLET TYPE 7	DROP BOX INLET TYPE 13G	DROP BOX INLET TYPE 13S	CAP DROP BOX INLET	ASYM CONC MED BARRIER BOX INLET TYPE 12AIL-50 ①	CONC MED BARRIER BOX INLET TYPE 12BI-50	CONC MED BARRIER BOX INLET TYPE 12B2-50	ASYM CONC MED BARRIER BOX INLET TYPE 12B2-50 ①	JUNCTION BOX	ADJUST INLET	MANHOLE TYPE A	MANHOLE TYPE B	MANHOLE TYPE C	ROADWAY EXCAVATION	CHANNEL LINING CLASS IA	CHANNEL LINING CLASS III	GEOTEXTILE FABRIC TY IV FOR PIPE	BORE & JACK PIPE 24 INCH	BORE & JACK PIPE 18 INCH	S CIPP LINER 15 INCH ③	S CIPP LINER 18 INCH ③	S CIPP LINER 24 INCH ③	S CIPP LINER 30 INCH ③	S CIPP LINER 36 INCH ③	S CIPP LINER 54 INCH ③	S CIPP LINER 60 INCH ③	S CIPP LINER 72 INCH ③	ASYM CONC MED BARRIER BOX INLET TYPE 12BIH-50 ①	ASYM CONC MED BARRIER BOX INLET TYPE 12BIL-50 ①	REMARKS
ITEM CODE					1538	1559	1568	1584	22620NN	23611NN	21602NN	21602NN	1650	1719	1756	1761	1767	2200	2482	2484	2600	21799EN	23126EN	15124	15125	15007	15128	15129	15132	15133	15135	23611NN	23611NN	
UNIT TO BID ON			FEET		EACH													CU YD	TONS		SQ YD	LIN FT												
R176	3269+41	0°	2	MED																	35													15" S&F Headwall
R176	3272+48.60	0°	3	MED																	10			40									1	
R22	3275+04.2	30°' Lt	(Exist Pipe)																							144								
R177	3277+67.40	0°	9	MED																33												225		72" Pipe Culvert Headwall
R179	3279+98.40	0°	9	MED														5		10	120			32									1	(y=3.14') 18" S&F Headwall
R180	3286+00 - 3289+09	0°	2	MED																	505												1	(y=2.97')
R180	3289+09	13°43' Rt	4	MED												1					45				28								1	(y=3.02') MH w/Fr & Lid Ty 2
R180	3289+09 - 3291+65	0°	2	MED																	465													
R182	3287+52.9 - 3289+75	0°	1	MED																	413													
R181	3289+75 - 3291+65	0°	2	MED																	350													
R182	245.6' Rt 3291+43	0°	5	MED																	80													2-36" Pipe Culvert Headwalls
R182	3291+65	0°	2	MED											1			2		32	55													Manhole w/Frame & Lid Type 2
R183	Lt 3291+65-3294+00	0°	2	MED		1															455													
R183	3294+00	0°	1	MED		1																											1	(y=3.33')
R183	3294+00 - 3294+93	0°	3	MED																	150													
R183	3294+00 - 3294+93	0°	2	MED																	173													
R183	3294+93	0°	4	MED		1												1		25	105	② 102											1	(y=3.32') 24" S&F Headwall
R184	Lt 3294+93-3295+60	0°	2	MED																	108													
R184	3294+93 - 3296+00	0°	3	MED																	182													
R184	3296+00 - 3298+65	0°	2	MED					1												432													(y=2.59')
R184	LT 3295+60 - 3297+50	0°	2	MED		1															325													
R185	3298+65 - 3289+90	0°	2	MED																	38										1			(y=0.92')
R185	Lt 3297+50-3300+37.50	0°	2	MED		1															495													
R185	3298+90 - 3300+55	0°	2	MED																	268										1			(y=0.70')
R186	3300+55	0°	1	MED																											1			(y=0.08')
R186	3300+82.50	0°	1	MED														6		42	20													15" S&F Headwall
R187	3302+20	0°	2	MED								1						17		95	154		② 92											(y=0.10')
R187	3303+60.70	15° Rt	9	MED														7		45	55					90								24" S&F Headwall
R188	3304+00	0°	2	MED								1									85		② 43											(y=0.01') 18" S&F Headwall
R188	3304+00 - 3305+00	0°	2	MED						1											159												1	(y=0.01')
R188	3309+37.60	0°	10	MED									1					3		50							119							30" Pipe Culvert Headwall
R188	3312+97.50	0°	8	MED														12		36	20						97							30" Pipe Culvert Headwall
R189	3313+97.50	0°	4	MED														2		9	30			42									1	(y=0.03') 15" S&F Headwall
R189	3325+05	0°	5	MED														2		7	85		② 52										1	(y=1.43') 18" S&F Headwall
R190	3325+05 - 3328+00	0°	3	MED																	485												1	(y=1.41')
R190	3328+00 - 3330+35	0°	3	MED																	378										1			(y=1.41')
R190	3330+35 - 3331+00	0°	3	MED																	105										2			(y=0.54') (y=0.14')
R191	3331+21.40	0°	(Exist Pipe)										1					11		65								188						36" Pipe Culvert Headwall
R192	3335+45.80	0°	9	MED														11		12	5			40									1	(y=0.26') 15" S&F Headwall
R192	3335+45.80 - 3336+00	0°	3	MED																	85													
R192	3336+00	0°		MED																													1	(y=0.64')
R193	Lt 3335+54.6-3337+77.9	0°	3	MED																	392													18" S&F Headwall
R194	3344+07.80	14°58' Rt	10	MED									1					2		23	115						71							30" Pipe Culvert Headwall
R194	3344+07.80 - 3344+50	0°	5	MED																	65													
R194	3344+50	0°		MED																													1	(y=1.43')
R195	3344+50 - 3347+80	0°	3	MED																	540													
R195	3347+80 - 3351+10	0°	3	MED																	540												1	(y=1.43')
R195	3351+10 - 3351+50	0°	3	MED																	65										2			(y=0.69') (y=0.41)

① SEE SHEETS R76B AND R76C FOR ASYM CONC MED BARRIER BOX INLET DETAILS
② SEE NOTE 3 ON SHEET R2q FOR ADDITIONAL INFORMATION
③ SEE NOTE 4 ON SHEET R2q FOR ADDITIONAL INFORMATION

PIPE DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R002005U.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R002005U
MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2p

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	ENTRANCE PIPE 15 INCH	CULVERT PIPE 15 INCH	CULVERT PIPE 18 INCH	CULVERT PIPE 24 INCH	CULVERT PIPE 30 INCH	CULVERT PIPE 36 INCH	CULVERT PIPE 72 INCH		STORM SEWER PIPE - 15 IN	STORM SEWER PIPE - 18 IN	STORM SEWER PIPE - 24 IN	STORM SEWER PIPE - 30 IN		PIPE CULVERT HEADWALL 15 INCH	PIPE CULVERT HEADWALL 18 INCH	PIPE CULVERT HEADWALL 24 INCH	PIPE CULVERT HEADWALL 30 INCH	PIPE CULVERT HEADWALL 36 INCH	PIPE CULVERT HEADWALL 72 INCH	METAL END SECTION TYPE 2 18 INCH	SLOPED BOX OUTLET TY 1-15 INCH		S & F BOX INLET OUTLET 18 INCH	S & F BOX INLET OUTLET 24 INCH	S & F BOX INLET OUTLET 30 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	REMARKS
ITEM CODE					440	461	462	464	466	468	474		521	522	524	526		1202	1204	1208	1210	1212	24025EC	1381	1432		1450	1451	1452	1480	1490	1493	1505	
UNIT TO BID			FEET		LIN FT													EACH																
R196	3353+95.40	0°	6	MED		43												1																15" S&F Headwall
R196	3353+95.4 - 3356+00	0°	3	MED									203																					
R196	3371+52.20	0°	3	MED		16																			1									
R196	3375+02.90	0°	1	MED				15																			1							
R197	3379+40	0°		MED																														
R197	3379+40 - 3379+54	0°	2	MED									12																					
R197	3379+54	0°	2	MED												13												1						
R198	3389+50	0°		MED																														
R198	3389+50 - 3392+50	0°	1	MED											-																			(Constructed By Others)
R198	3392+50	0°		MED																														
R199	3392+50 - 3395+50	0°	1	MED											-																			(Constructed By Others)
R199	Rt 3393+59.6-3395+95.4	0°	3	MED			241												1														1	18" S&F Headwall
R200	3395+50	0°		MED																														
R200	3395+50 - 3398+00	0°	4	MED											-																			(Constructed By Others)
R200	3398+00	0°	8	MED											-					1														(Constructed By Others)
	TOTALS				-	180	814	340	77	58	17		5403	1809	875	56		5	8	5	3	3	1	2	3		1	3	3	3	4	1	3	
	RAMP A																																	
R44	54+81.53	29° Lt	(Exist	Pipe)																														
	TOTALS																																	
	RAMP B																																	
R201	200+99	0°	3	MED											48												1							Manhole w/Frame & Lid Type 2
R203	206+19	16° Lt	(Exist	Pipe)																														
	TOTALS														48												1							
	RAMP D-1																																	
R202	600+00	0°		MED																														Manhole w/Frame & Lid Type 1
R202	600+00 - 601+50	0°	4	MED												134																		
R202	601+50	0°	3	MED												34					1													30" Pipe Culvert Headwall
	TOTALS															168					1													
	US 25																																	
R203	54+81.53	18° 35' Lt	9	MED										8					1															18" S&F Headwall
	TOTALS													8					1															
	FRONTAGE ROAD																																	
R204	30+14.70	0°	4	MED			49												1												1			18" S&F Headwall
	Ent Lt 38+44.7			MED	38																													
	TOTALS				38		49												1												1			
	PROJECT TOTALS				38	180	863	340	77	58	17		5403	1817	923	224		5	10	5	4	3	1	2	3		1	4	3	3	5	1	3	

PIPE DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020PSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020PSU
MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2q

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	DROP BOX INLET TYPE 7	DROP BOX INLET TYPE 13G	DROP BOX INLET TYPE 13S	CAP DROP BOX INLET	ASYM CONC MED BARRIER BOX INLET TYPE 12AIL-50 ②	CONC MED BARRIER BOX INLET TYPE 12BI-50	CONC MED BARRIER BOX INLET TYPE 12B2-50	ASYM CONC MED BARRIER BOX INLET TYPE 12B2-50 ②	JUNCTION BOX	ADJUST INLET	MANHOLE TYPE A	MANHOLE TYPE B	MANHOLE TYPE C	ROADWAY EXCAVATION	CHANNEL LINING CLASS IA	CHANNEL LINING CLASS III	GEOTEXTILE FABRIC TY IV FOR PIPE	BORE & JACK PIPE 24 INCH	BORE & JACK PIPE 18 INCH	S CIPP LINER 15 INCH ④	S CIPP LINER 18 INCH ④	S CIPP LINER 24 INCH ④	S CIPP LINER 30 INCH ④	S CIPP LINER 36 INCH ④	S CIPP LINER 54 INCH ④	S CIPP LINER 60 INCH ④	S CIPP LINER 72 INCH ④	ASYM CONC MED BARRIER BOX INLET TYPE 12BIH-50 ②	ASYM CONC MED BARRIER BOX INLET TYPE 12BIL-50 ②	REMARKS
ITEM CODE					1538	1559	1568	1584	22620NN	23611NN	21602NN	21602NN	1650	1719	1756	1761	1767	2200	2482	2484	2600	21799EN	23126EN	15124	15125	15007	15128	15129	15132	15133	15135	23611NN	23611NN	
UNIT TO BID ON			FEET															CU YD	TONS		SQ YD	LIN FT												
R196	3353+95.40	0°	6	MED									1					1		10	70			38									1	(y=0.29') 15" S&F Headwall
R196	3353+95.4 - 3356+00	0°	3	MED																	329												1	(y=1.21')
R196	3371+52.20	0°	3	MED																	25			35									1	
R196	3375+02.90	0°	2	MED																	30					87								
R197	3379+40	0°	4	MED							1																							
R197	3379+40 - 3379+54	0°	2	MED																	20													
R197	3379+54	0°	2	MED				1													30						90							
R198	3389+50	0°	3	MED							1																							(Top Phase Only)
R198	3389+50 - 3392+50	0°	3	MED																														
R198	3392+50	0°	3	MED							1																							(Top Phase Only)
R199	3392+50 - 3395+50	0°	3	MED																														
R199	Rt 3393+59.6-3395+95.4	0°	2	MED																														18" S&F Headwall
R200	3395+50	0°	3	MED							1																							(Top Phase Only)
R200	3395+50 - 3398+00	0°	4	MED																														
R200	3398+00	0°	8	MED							1							10	20															(Top Phase Only)
	TOTALS				-	5	1	2	2	1	8	2	5	-	1	1	-	104	30	500	14656	③ 102	③ 240	1001	291	498	377	278	136	-	717	12	36	
	RAMP A																																	
R44	54+81.53	29° Lt	(Exist	Pipe)																										43				
	TOTALS																													43				
	RAMP B																																	
R201	200+99	0°	3	MED											1						91													Manhole w/Frame & Lid Type 2
R203	206+19	16° Lt		MED										1												76								
	TOTALS													1	1						91					76								
	RAMP D-1																																	
R202	600+00	0°		MED													1																	Manhole w/Frame & Lid Type 1
R202	600+00 - 601+50	0°	4	MED																	280													
R202	601+50	0°	3	MED	1																70													30" Pipe Culvert Headwall
	TOTALS				1												1				350													
	US 25																																	
R203	54+81.53	18° 35' Lt	9	MED																20	15				70									18" S&F Headwall
	TOTALS																			20	15				70									
	FRONTAGE ROAD																																	
R204	30+14.70	0°	4	MED																10	85													
	Ent Lt 38+44.7																																	
	TOTALS																			10	85													
	PROJECT TOTALS				1	5	1	2	2	1	8	2	5	1	2	1	1	① 104	① 30	① 530	15197	③ 123	③ 361	1001	361	574	377	278	136	43	717	12	36	

① CARRIED FORWARD TO GENERAL SUMMARY

② SEE SHEETS R76B AND R76C FOR ASYM CONC MED BARRIER BOX INLET DETAILS

③ PROJECT TOTAL QUANTITIES FOR BORE & JACK PIPE 24 INCH AND BORE AND JACK PIPE 18 INCH HAVE BEEN REVISED (INCREASED) FOR CONSTRUCTABILITY PURPOSES. THE CONTRACTOR IS TO OBTAIN THE APPROVAL OF THE ENGINEER PRIOR TO INCREASING THE INDIVIDUAL TOTALS SHOWN ON THE PIPE DRAINAGE SUMMARY SHEETS AND PIPE SHEETS.

④ THE LENGTHS OF CIPP LINERS ARE BASED ON HALF THE TOTAL LENGTH OF EACH SIZE PIPE WITHIN THE PROJECT LIMITS. THESE ARE ESTIMATED QUANTITIES. THE ACTUAL NEEDED LENGTHS OF LINING FOR EACH SIZE PIPE WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

PIPE DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R00200SU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R00200SU
MicroStation v8.11.7.443

PERFORATED PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2r

MILEPOST OR STATIONS	4" PERF PIPE	4" NON PERF PIPE	6" PERF PIPE	6" NON PERF PIPE	PERFORATED PIPE HEADWALL TYPE 1 - 4"	PERFORATED PIPE HEADWALL TYPE 2 - 4"	PERFORATED PIPE HEADWALL TYPE 3 - 4"	PERFORATED PIPE HEADWALL TYPE 4 - 4"	CRUSHED AGGREGATE SIZE NO 2	OUTLET THRU PROP DRAINAGE STRUCTURE	PERFORATED PIPE HEADWALL	INSPECT & CERTIFY EDGE DRAIN SYSTEM
ITEM CODE	1000	1010	1001	1011	1020	1024	1028	1032	78			1015
UNIT TO BID ON	LF	LF	LF	LF	EA	EA	EA	EA	TON	LOCATION	LOCATION	LUMP SUM
I-75 MEDIAN (UNDER BARRIER WALL)												
3165+72 - 3166+68			92	4						3166+68		
3166+71 - 3167+17			42	4						3167+18		
3167+19 - 3167+65			42	4						3167+18		
3167+69 - 3169+45			172	4						3167+68		
3169+49 - 3174+00			447	4						3169+48		
3174+04 - 3177+47			339	4						3174+03		
3177+51 - 3181+49			394	4						3177+50		
3181+53 - 3184+97			340	4						3181+51.9		
3185+01 - 3189+21			416	4						3185+00		
3189+25 - 3192+47			318	4						3189+24		
3192+51 - 3195+47			292	4						3192+50		
3195+51 - 3199+35			380	4						3195+50		
3199+35 - 3207+95.6			857	4						3207+96.6		
3207+98 - 3210+49			247	4						3210+50		
3210+52 - 3213+89			333	4						3213+90		
3213+92 - 3219+96.5			601	4						3219+97.5		
3220+00 - 3227+98			794	4						3227+99.1		
3228+01 - 3235+97.5			793	4						3235+98.5		
3236+01 - 3243+00			695	4						3243+01		
3243+03 - 3248+49			542	4						3248+50		
3248+52 - 3251+49			293	4						3251+50		
3251+52 - 3254+49.8			294	4						3254+50.8		
3254+53 - 3259+64			302	4						3259+64		
3259+66 - 3262+72.3			815	4						3262+73.3		
3262+75 - 3265+70.4			291	4						3265+71.4		
L† 3265+71 ③	69	4								3265+71.4		
R† 3266+14 ③	65										R† 3266+14	
3268+75 - 3272+47.6			369	4						3272+48.6		
3272+51 - 3279+97.4			743	4						3279+98.4		
3280+00 - 3285+99			595	4						3286+00		
3286+02 - 3289+08			302	4						3289+09		
3289+11 - 3293+99			484	4						3294+00		
3294+02 - 3294+92			86	4						3294+93		
3294+94 - 3295+58			60	4						3294+93		
3295+61 - 3298+63			298	4						3295+60		
3298+66 - 3300+75			205	4						3298+65		
L† 3301+62 ③	53										L† 3301+62	
R† 3302+05 ③	75										L† 3302+05	
3302+08 - 3303+98			186	4						3302+07		
3304+01 - 3313+95			990	4						3304+00		
3313+98.5 - 3325+03			1100	4						3313+97.5		
3325+06 - 3327+98			288	4						3325+05		
3328+02 - 3330+13			207	4						3328+00		
3330+15 - 3335+44			525	4						3330+15		
3335+46.8 - 3335+98			47	4						3335+45.8		
3336+01 - 3344+48			843	4						3336+00		
3344+51 - 3347+78			323	4						3344+50		
3347+81.3 - 3351+08			323	4						3347+80		
3351+11 - 3353+93			278	4						3351+10		
3353+96 - 3363+00			900	4						3353+95.4		
3363+00 - 3371+51			847	4						3371+52		
3371+54 - 3379+39			781	4						3379+40		
3379+42 - 3389+49			1003	4						3389+50		

MILEPOST OR STATIONS	4" PERF PIPE	4" NON PERF PIPE	6" PERF PIPE	6" NON PERF PIPE	PERFORATED PIPE HEADWALL TYPE 1 - 4"	PERFORATED PIPE HEADWALL TYPE 2 - 4"	PERFORATED PIPE HEADWALL TYPE 3 - 4"	PERFORATED PIPE HEADWALL TYPE 4 - 4"	CRUSHED AGGREGATE SIZE NO 2	OUTLET THRU PROP DRAINAGE STRUCTURE	PERFORATED PIPE HEADWALL	INSPECT & CERTIFY EDGE DRAIN SYSTEM
ITEM CODE	1000	1010	1001	1011	1020	1024	1028	1032	78			1015
UNIT TO BID ON	LF	LF	LF	LF	EA	EA	EA	EA	TON	LOCATION	LOCATION	LUMP SUM
I-75 MEDIAN (UNDER BARRIER WALL)												
3389+52 - 3392+49			293	4						3392+50		
3392+52 - 3395+49			293	4						3395+50		
3395+52 - 3397+99			243	4						3398+00		
3398+01 - 3399+01			96	4						3398+00		
I-75 LEFT												
3244+00 - 3247+00	302	8						1	1		3247+00	
3247+02 - 3250+00	296	8					1		1		3250+00	
3250+02 - 3253+00	298	8					1		1		3253+00	
3253+02 - 3254+50	148										410+04 R D	
3297+51 - 3300+30	275	4									3300+38	
3301+62 - 3301+75	13	24			1				1	②	3301+62	
I-75 RIGHT												
3266+00 - 3266+14	14	15			1				1	②	3266+14	
3269+45 - 3272+00	250	23					1		1		3272+00	
3286+80 - 3290+00	313	15						1	1		3290+00	
3290+02 - 3293+00	292	8			1				1		3293+00	
3293+02 - 3295+00	194	7			1				1		3295+00	
3295+00 - 3295+98	98										3295+00	
3296+00 - 3298+48	250	7			1				1		3296+00	
3298+50 - 3300+80	230	7			1				1		3298+50	
3302+05 - 3304+98	10	9			1				1		3302+05	
3305+00 - 3307+98	298	9					1		1		3305+00	
3308+00 - 3310+98	298	11				1			1		3308+00	
3311+00 - 3313+98	298	8			1				1		3311+00	
3314+00 - 3317+00	300	10				1			1		3314+00	
3329+00 - 3331+98	298	8			1				1		3329+00	
3332+00 - 3334+98	298	7			1				1		3332+00	
3335+00 - 3337+98	298	7			1				1		3335+00	
3338+00 - 3339+98	198	9					1		1		3338+00	
3340+00 - 3342+98	296	10					1		1		3340+00	
3343+00 - 3345+98	296	14					1		1		3343+00	
3346+00 - 3348+98	296	9					1		1		3346+00	
3349+00 - 3350+98	198	9					1		1		3349+00	
3351+00 - 3354+50	350	12					1		1		3351+00	
3371+00 - 3374+00	300	9					1		1		3374+00	
3374+02 - 3377+00	298	9					1		1		3377+00	
3377+02 - 3380+00	298	9					1		1		3380+00	
3380+02 - 3383+00	298	9					1		1		3383+00	
3383+02 - 3386+00	298	10						1	1		3386+00	
3386+02 - 3388+08	200	7								②	3388+08	
I-75 TOTALS ①	8659	323	22839	212	11	2	14	3	30			

① TOTALS CARRIED FORWARD TO THE GENERAL SUMMARY
② CONNECT TO EXIST EDGE DRAIN
③ 4" PERF PIPE UNDERDRAIN

PERFORATED PIPE
DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020RSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020RSU
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R2s

PERFORATED PIPE DRAINAGE SUMMARY

MILEPOST OR STATIONS	4" PERF PIPE	4" NON PERF PIPE	6" PERF PIPE	6" NON PERF PIPE	PERFORATED PIPE HEADWALL TYPE 1 - 4"	PERFORATED PIPE HEADWALL TYPE 2 - 4"	PERFORATED PIPE HEADWALL TYPE 3 - 4"	PERFORATED PIPE HEADWALL TYPE 4 - 4"	CRUSHED AGGREGATE SIZE NO 2	OUTLET THRU PROP DRAINAGE STRUCTURE	PERFORATED PIPE HEADWALL	INSPECT & CERTIFY EDGE DRAIN SYSTEM
ITEM CODE	1000	1010	1001	1011	1020	1024	1028	1032	78			1015
UNIT TO BID ON	LF	LF	LF	LF	EA	EA	EA	EA	TON	LOCATION	LOCATION	LUMP SUM
RAMP A												
LT 113+50 - 116+42	287	15					1		1		116+42	
LT 116+44 - 119+50	301	15			1				1		116+42	
RT 104+00 - 107+00	299	9					1		1		107+00	
RT 107+02- 110+00	296	9					1		1		110+00	
RT 110+02 - 113+50	348	9					1		1		113+50	
RAMP A TOTALS (1)	1531	57	-	-	1	-	4	-	5			
RAMP B												
LT 201+39 - 201+75	36	12					1		1		201+75	
LT 201+75 - 202+50	75										201+75	
RT 202+47 - 205+48	301	12					1		1		202+47	
RT 205+50 - 208+48	298	11			1				1		205+50	
RT 208+50 - 211+00	250	8			1				1		208+50	
RT 211+00 - 214+00	298	9					1		1		214+00	
RT 214+02 - 216+50	248	9					1		1		216+50	
RAMP B TOTALS (1)	1506	61	-	-	2	-	4	-	6			
RAMP B-1												
RT 500+03 (R B-1) - 202+45 (R B)	183	13					1		1		500+03	
RAMP B-1 TOTALS (1)	183	13	-	-	-	-	1	-	1			
RAMP C												
LT 304+50 - 307+60	309	4								304+50		
LT 313+60 - 315+98	235	17					1		1		313+60	
LT 316+00 - 318+48	242	10					1		1		316+00	
LT 318+50 - 321+09	269	9					1		1		318+50	
RAMP C TOTALS (1)	1055	40	-	-	-	-	3	-	3			
RAMP C-1												
RT 319+75 - 702+75 (R C-1)	298	9					1		1		319+75	
RAMP B-1 TOTALS (1)	298	9	-	-	-	-	1	-	1			
RAMP D												
LT 400+70 - 402+75	206	5					1		1		400+70	
RT 404+00 - 406+98	295	6			1				1		404+00	
RT 407+00 - 410+01	300	7				1			1		407+00	
RT 410+04 - 411+39	135	11				1			1		410+04	
RAMP D TOTALS (1)	936	29	-	-	1	2	1	-	4			
RAMP D-1												
RT 600+00 (R D-1) - 601+90 R D-1)	184	21								601+90(R D-1)		
RT 601+90 R D-1) - 403+98 (R D)	269									601+90(R D-1)		
RAMP D-1 TOTALS (1)	453	21	-	-	-	-	-	-	-			
PROJECT TOTALS (1)	14621	553	22839	212	15	4	28	3	50			1

(1) TOTALS CARRIED FORWARD TO THE GENERAL SUMMARY
(2) CONNECT TO EXIST EDGE DRAIN
(3) 4" PERF PIPE UNDERDRAIN

PERFORATED PIPE
DRAINAGE SUMMARY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020SSU.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0020SSU
MicroStation v8.11.7.443

GENERAL NOTES

PROPOSAL ATTACHMENTS

SPECIAL NOTE 1I PORTABLE CHANGEABLE MESSAGE SIGNS
SPECIAL NOTE 1ID ROCK BLASTING
SPECIAL NOTE 1IF TURF REINFORCEMENT MAT
SPECIAL PROVISION 69 EMBANKMENT AT BRIDGE END BENT STRUCTURES
SPECIAL NOTE FOR CIPP ACCEPTANCE TESTING
SPECIAL NOTE FOR PVC FOLD-AND-FORM PIPE LINER
SPECIAL NOTE FOR CURED-IN-PLACE PIPE LINING
SPECIAL NOTE FOR ALLOWING PVC FOLD AND FORM LINER
SPECIAL NOTE FOR PIPE CLEANING
SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE
SPECIAL NOTE FOR INLAID PAVEMENT MARKERS
SPECIAL NOTE FOR INTELLIGENT COMPACTION OF ASPHALT MIXTURES
SPECIAL NOTE FOR PAVER MOUNTED TEMPERATURE PROFILES
SPECIAL NOTE FOR PORTABLE QUEUE WARNING ALERT SYSTEM
SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS
SPECIAL NOTE FOR CRUSHED STONE BASE - MODIFIED

N.G.S. (U.S.G.S.) BENCH MARKS

DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.

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.

ASPHALT PAVEMENT RIDE QUALITY

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

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED ELSEWHERE IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

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.

TREE CUTTING

TREE CUTTING WILL NOT BE PERMITTED FROM AUGUST 16TH TO NOVEMBER 14TH ON THIS PROJECT.

MicroStation v8.11.7.443 | E-SHEET NAME: R0020TGN | USER: tvonbehren DATE PLOTTED: November 6, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0020TGN.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R3

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE — 400' V.C.
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
EXIST. PROPERTY LINE
EXIST. RIGHT OF WAY & PROPERTY LINE
PROPOSED RIGHT OF WAY
RIGHT OF WAY MONUMENT
BENCH MARK — B.M. NO.4
EXISTING R/W MARKER
RIGHT OF WAY MONUMENT EXISTING/PROPOSED
UTILITY TEST HOLE — TH
EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)
TREE LINE
TREES
PIPE CULVERT
CULVERT
BRIDGE
BUILDINGS — 1-S FRAME, 1-S BRICK, SHED, 2-S BRICK
GUARDRAIL — END TREATMENT, GUARDRAIL, TERMINAL SECTION

	EXISTING	PROPOSED
LIGHTING POLE		
POWER POLE		
JOINT POWER & TELEPHONE POLE		
TELEPHONE & TELEGRAPH POLE		
ANCHOR, POWER OR TELEPHONE		
STUB POWER		
STUB TELEPHONE		
WATER MAIN	WM	6" WM
GAS MAIN	GM	6" GM
TELEPHONE DUCT	T	T
ELECTRIC DUCT	E	E
DIRECT BURIAL TV CABLE	TV	TV
SANITARY SEWER (WITH MANHOLE)	SAN	SAN
STORM SEWER (WITH MANHOLE)	STORM	STORM
DIRECT BURIAL ELECTRIC CABLE	E	E
DIRECT BURIAL TELEPHONE CABLE	T	T
OVERHEAD WIRE		
TRAFFIC LIGHTS		
ELECTRIC MANHOLE	EMH	EMH
TELEPHONE MANHOLE	TMH	TMH

STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
BLUE LINE STREAM
INTERMITTENT STREAM OR DITCH
LAKES OR PONDS
REGULATED FLOODWAY
NORTH POINT

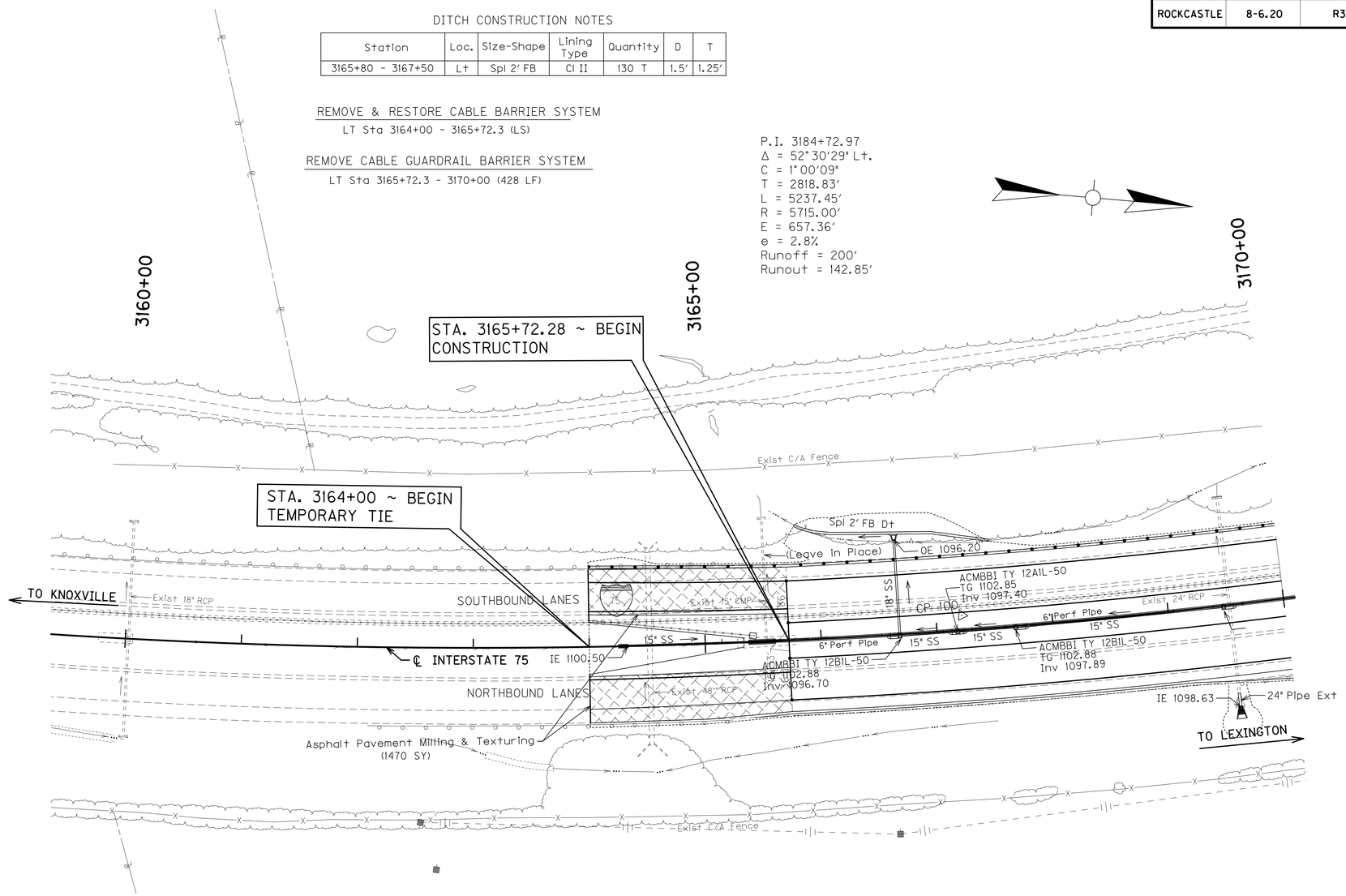
DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3165+80 - 3167+50	Lt	Spl 2' FB	Cl II	130 T	1.5'	1.25'

REMOVE & RESTORE CABLE BARRIER SYSTEM
LT Sta 3164+00 - 3165+72.3 (LS)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM
LT Sta 3165+72.3 - 3170+00 (428 LF)

P.I. 3184+72.97
Δ = 52°30'29" Lt.
C = 1°00'09"
T = 2818.83'
L = 5237.45'
R = 5715.00'
E = 657.36'
e = 2.8%
Runoff = 200'
Runout = 142.85'



CONSTRUCT CONCRETE MEDIAN BARRIER
Sta 3165+72.3 (Condition No 4)
Cl A Conc = 3.77 CY, Reinf Steel = 163 Lbs)

CONSTRUCT CRASH CUSHION TYPE C TL3
Sta 3165+60.3 (Type C TL3)

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)
Lt Sta 3164+75 to Sta 3170+00 (520.2 LF)
(Connect to Existing Guardrail)

REMOVE EXISTING STEEL W BEAM GUARDRAIL
Lt Sta 3165+72 to Sta 3170+00 (520 LF)

CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3165+72.28 - 3166+52.2	12C-50*	79.9
3166+77.2 - 3167+05.5	12C-50*	28.3
3167+30.5 - 3167+58.8	12C-50*	28.3
3167+83.8 - 3169+38.8	12C-50*	155.0
3169+63.8 - 3170+00	12C-50*	36.2

SCALE: 1"= 50'

DESIGNED BY:
DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
ROCKCASTLE

PROJECT NUMBERS: FD52 102 0075 060-065
NHPP IM 0752 (095)

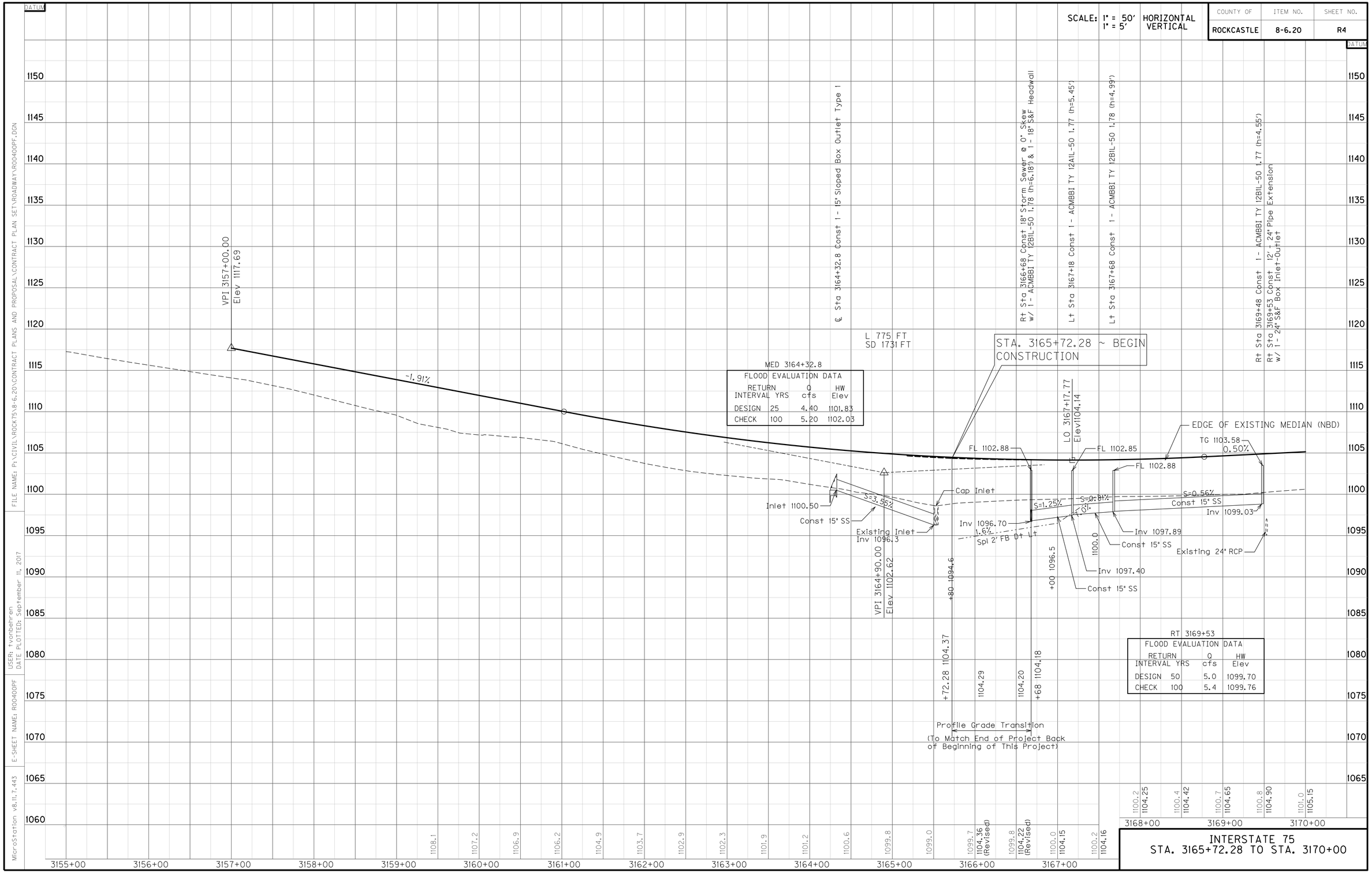
INTERSTATE 75

STA. 3165+72.28 TO STA. 3170+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R00300PL.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R00300PL
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R4

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



INTERSTATE 75
STA. 3165+72.28 TO STA. 3170+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R0400PF.DGN
USER: tvanbehren
DATE PLOTTED: September 11, 2017
E-SHEET NAME: R0400PF
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R5

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3172+00 - 3173+00	Lt	Spl 2' FB	IA	35 Ton	1.0'	0.75'
3173+00 - 3173+25	Lt	Spl 2' FB	II	15 Ton	1.0'	1.25'
3173+20 - 3175+50	Lt	Spl V	EC Blnkt	255 SY	1.0'	
3175+81 - 3181+50	Lt	5' FB	Rock Cut			

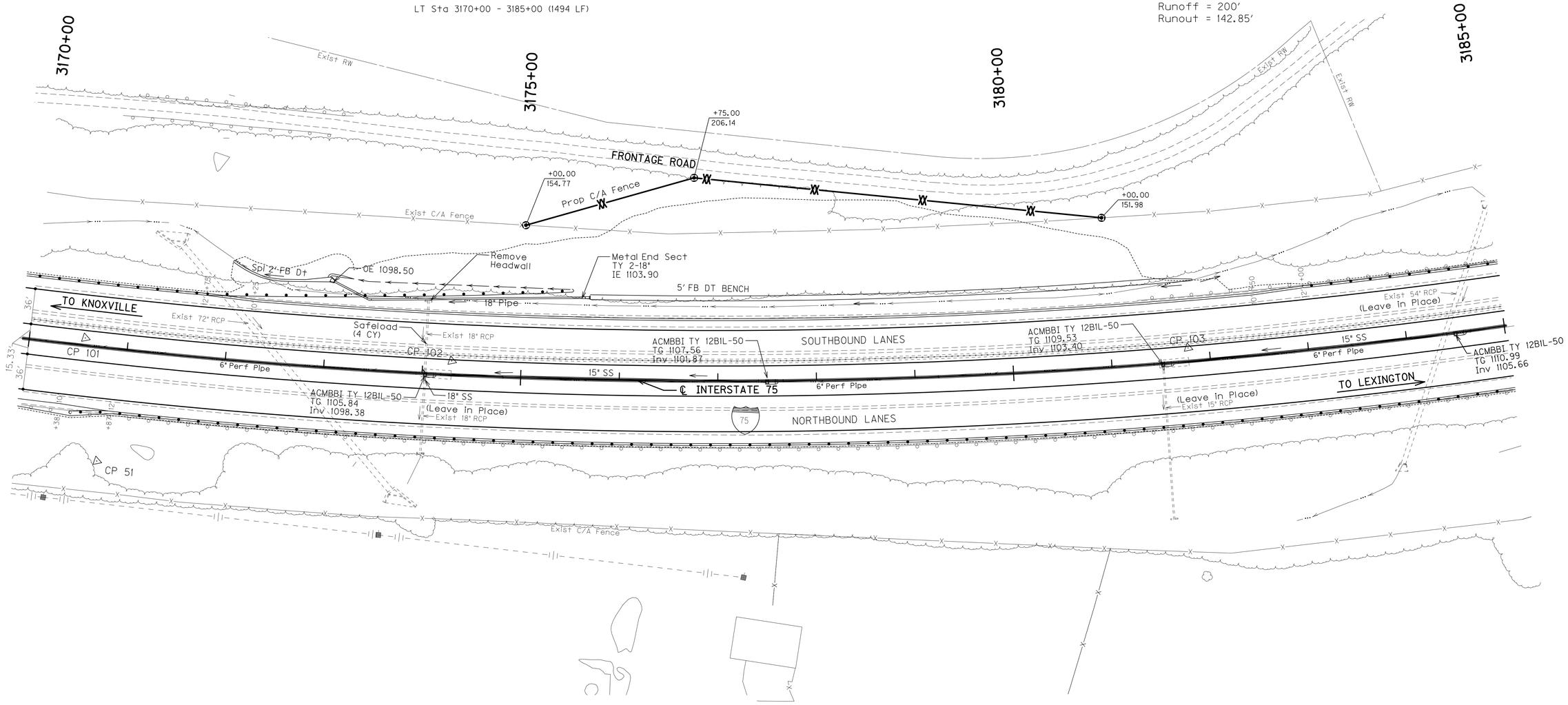
CONSTRUCT WOVEN WIRE FENCE TYPE 1

Lt Sta 3175+00 to Sta 3181+00 (593 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

LT Sta 3170+00 - 3185+00 (1494 LF)

P.I. 3184+72.97
Δ = 52°30'29" Lt.
C = 1°00'09"
T = 2818.83'
L = 5237.45'
R = 5715.00'
E = 657.36'
e = 2.8%
Runoff = 200'
Runout = 142.85'



CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3170+00 - 3173+93.8	12C-50*	393.8
3174+18.8 - 3177+41.2	12C-50*	322.4
3177+66.2 - 3181+42.7	12C-50*	376.5
3181+67.7 - 3184+90.8	12C-50*	323.1

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3170+00 to Sta 3175+50 (554.0 LF)
& End Treatment Type 2A
(W=25', Flare=375') (245 CY Emb)

Rt Sta 3170+50 to Sta 3185+00 (1430.7 LF) & 1
End Treatment Type 4A W/ 1 Object Marker Ty 3
(23 CY Emb)

Lt Sta 3183+00 to Sta 3185+00 (196.5 LF)
& 1 End Treatment Type 2A

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3170+00 to Sta 3174+79 (475 LF)
Rt Sta 3170+00 to Sta 3185+00 (1204 LF)
Lt Sta 3182+64 to Sta 3185+00 (233 LF)

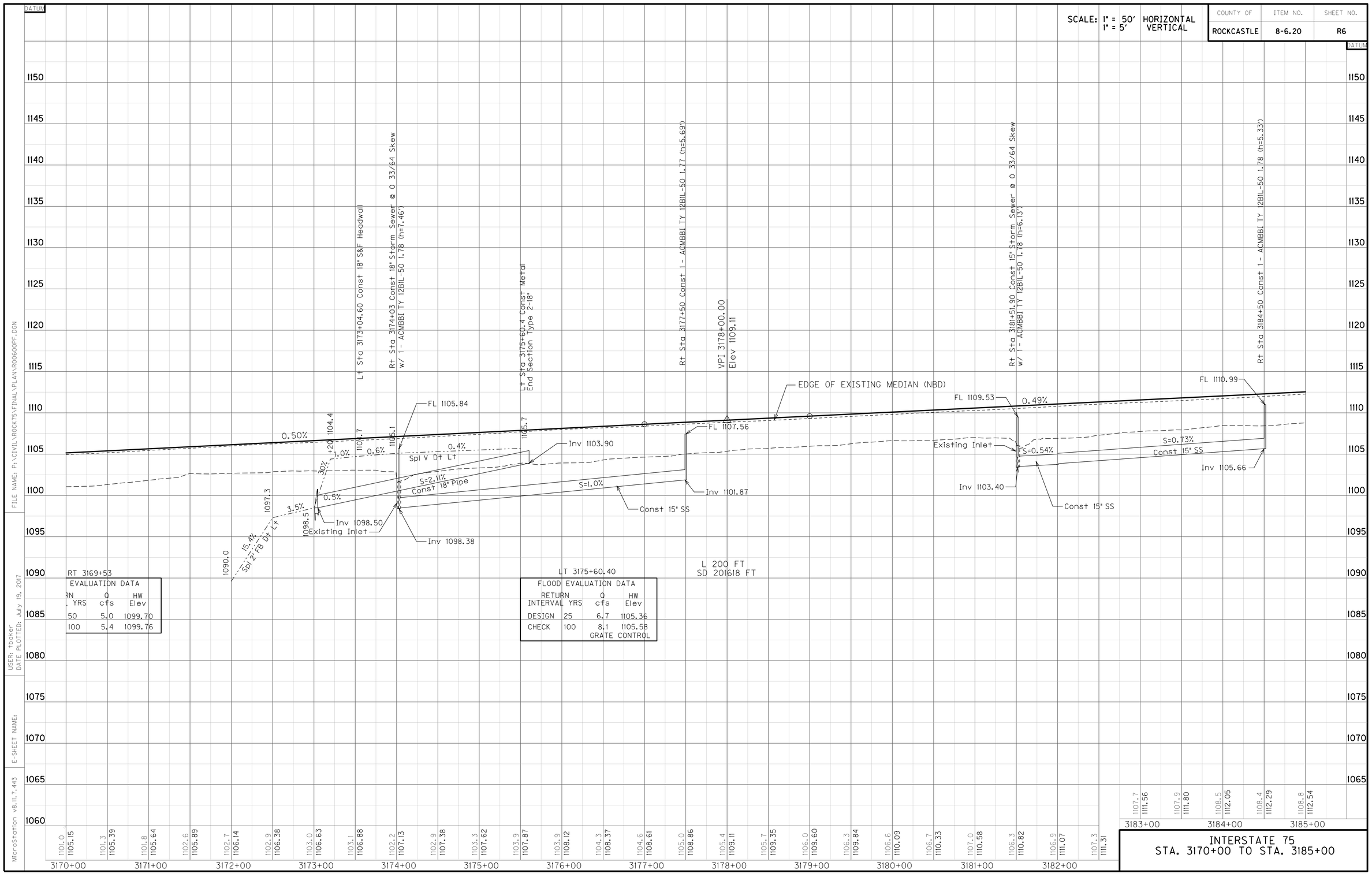
SCALE: 1"= 50'

INTERSTATE 75
STA. 3170+00 TO STA. 3185+00

MicroStation v8.11.7.443 | E-SHEET NAME: R0050OPL | USER: tvonbehren DATE PLOTTED: November 6, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0050OPL.DGN

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R6



INTERSTATE 75
STA. 3170+00 TO STA. 3185+00

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R7

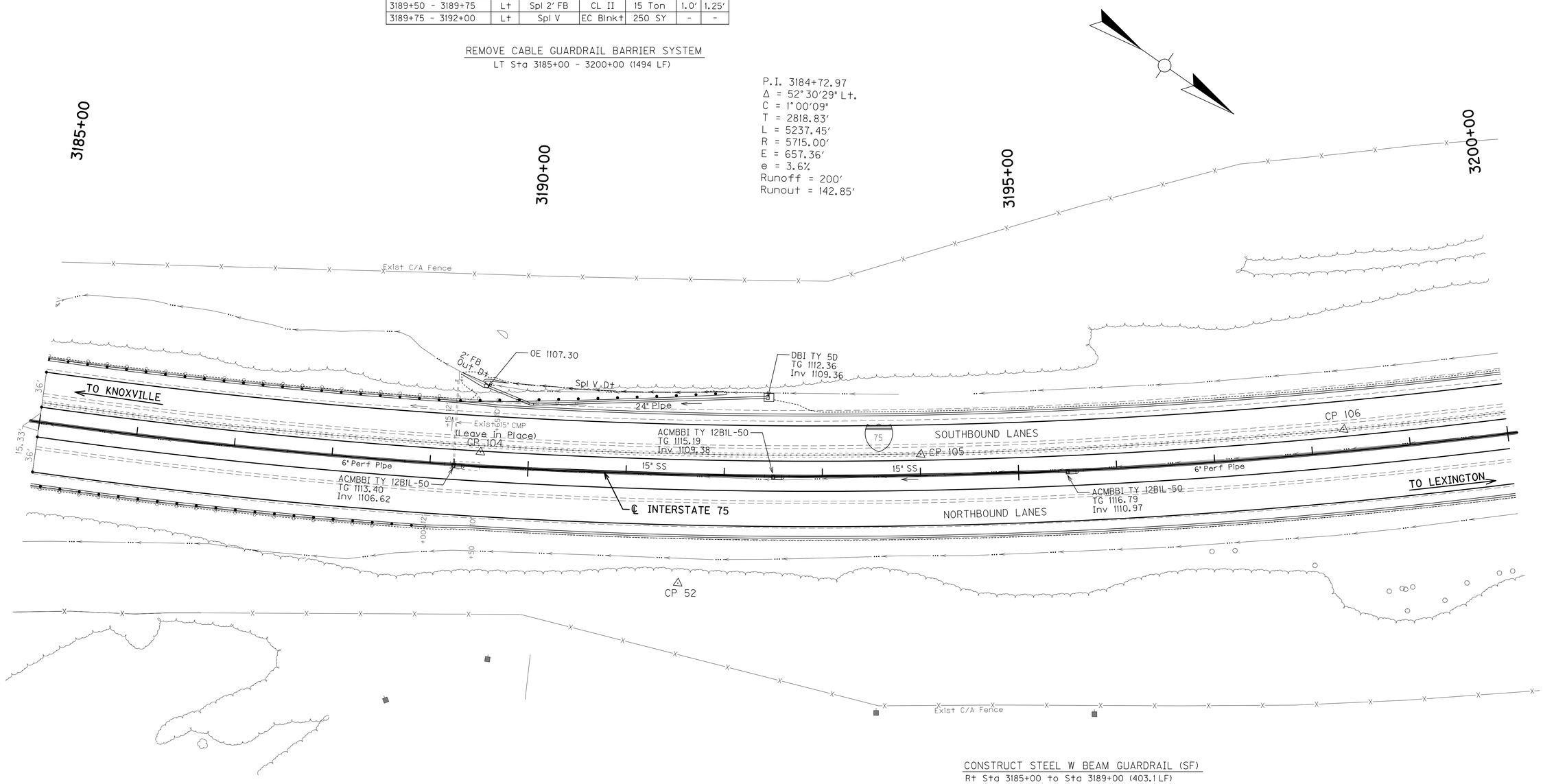
DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3189+50 - 3189+75	Lt	Spl 2' FB	CL II	15 Ton	1.0'	1.25'
3189+75 - 3192+00	Lt	Spl V	EC Blnkt	250 SY	-	-

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

LT Sta 3185+00 - 3200+00 (1494 LF)

P.I. 3184+72.97
Δ = 52°30'29" Lt.
C = 1°00'09"
T = 2818.83'
L = 5237.45'
R = 5715.00'
E = 657.36'
e = 3.6%
Runoff = 200'
Runout = 142.85'



CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 3185+00 to Sta 3189+00 (403.1 LF)
& 1 End Treatment Type 2A

Lt Sta 3185+00 to Sta 3192+00 (692.9 LF)
& 1 End Treatment Type 2A
(W=19', Flare=285') (165 CY Emb)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 3185+00 to Sta 3187+84 (286 LF)
Lt Sta 3185+00 to Sta 3191+23 (616 LF)

CONSTRUCT CONCRETE MEDIAN BARRIER

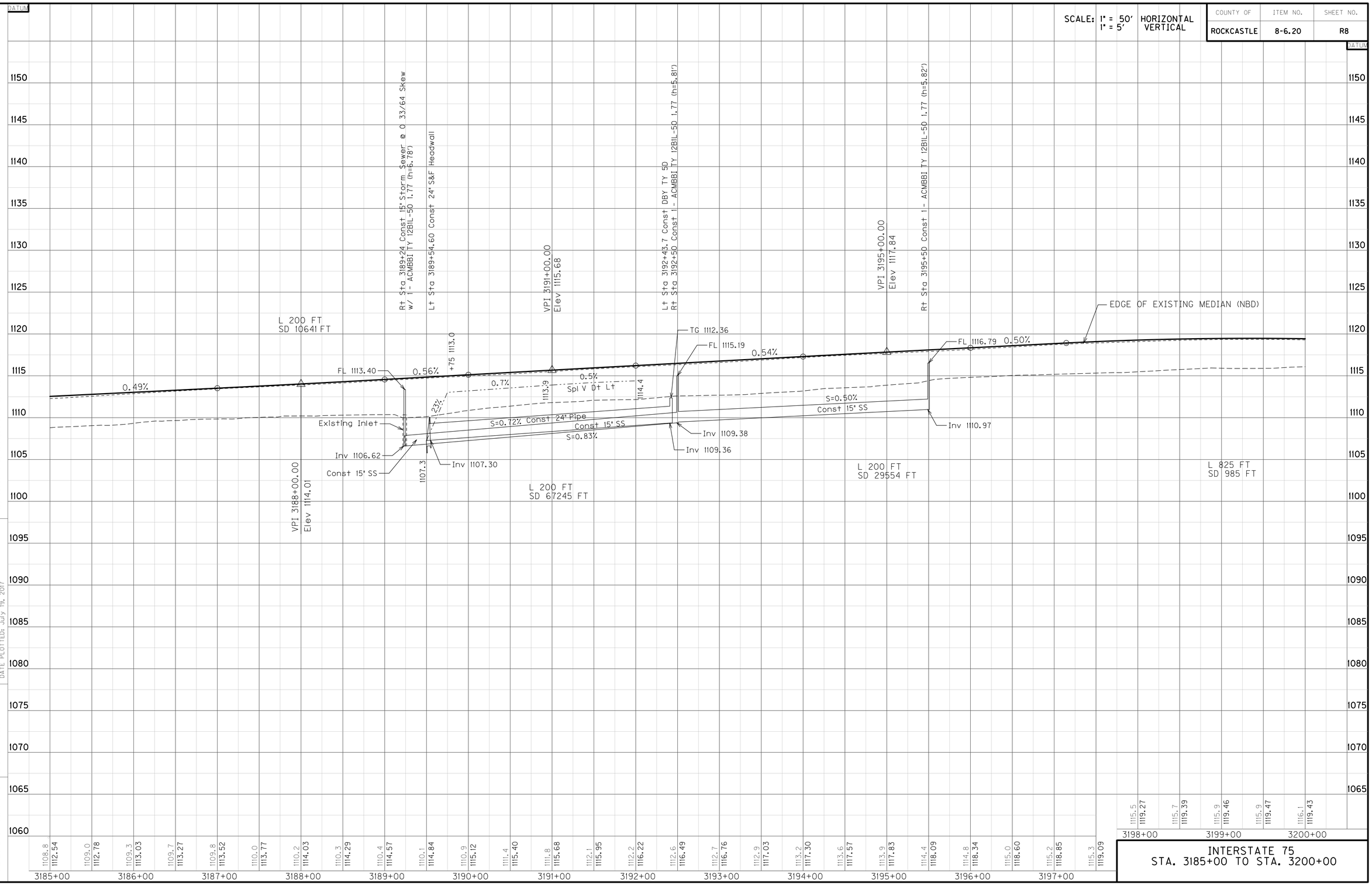
STATION TO STATION	TYPE	LF
3185+15.8 - 3189+14.8	12C-50*	399.0
3189+39.8 - 3192+41.5	12C-50*	301.7
3192+66.5 - 3195+40.8	12C-50*	274.3
3195+65.8 - 3200+00	12C-50*	434.2

SCALE: 1"= 50'

INTERSTATE 75
STA. 3185+00 TO STA. 3200+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\ROOT00PL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: ROOT00PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R8



INTERSTATE 75
STA. 3185+00 TO STA. 3200+00

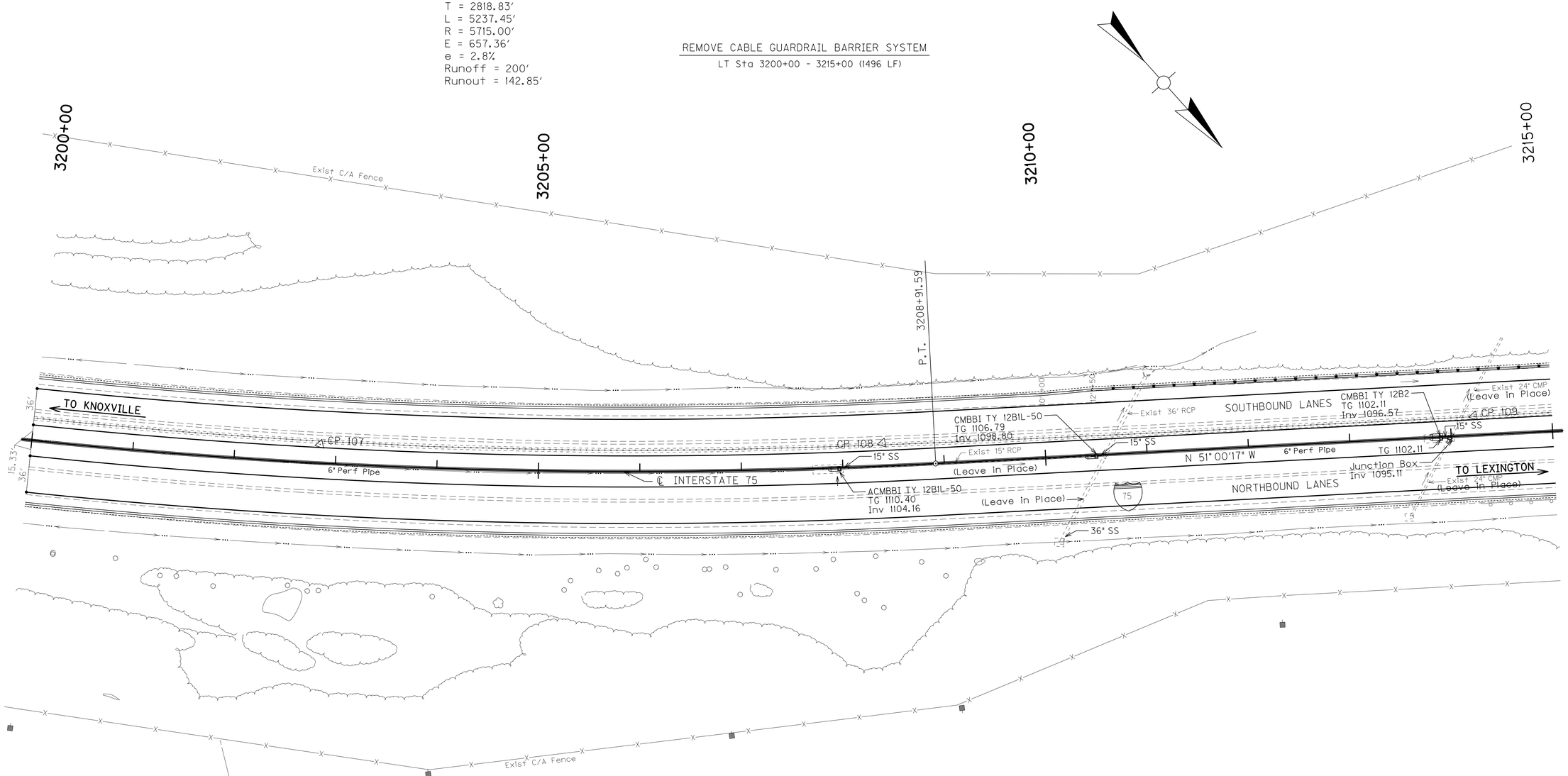
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R08B00PF.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R9

P.I. 3184+72.97
Δ = 52°30'29" Lt.
C = 1°00'09"
T = 2818.83'
L = 5237.45'
R = 5715.00'
E = 657.36'
e = 2.8%
Runoff = 200'
Runout = 142.85'

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

LT Sta 3200+00 - 3215+00 (1496 LF)



CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3200+00 - 3207+80.4	12C-50*	780.4
3208+05.4 - 3210+34.2	12C-50*	228.8
3210+59.2 - 3213+74.2	12C-50*	315.0
3213+99.2 - 3215+00	12C-50*	100.8

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3210+50 to Sta 3215+00 (449.6 LF)
& 1 End Treatment Type 2A

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3210+95 to Sta 3215+00 (405 LF)

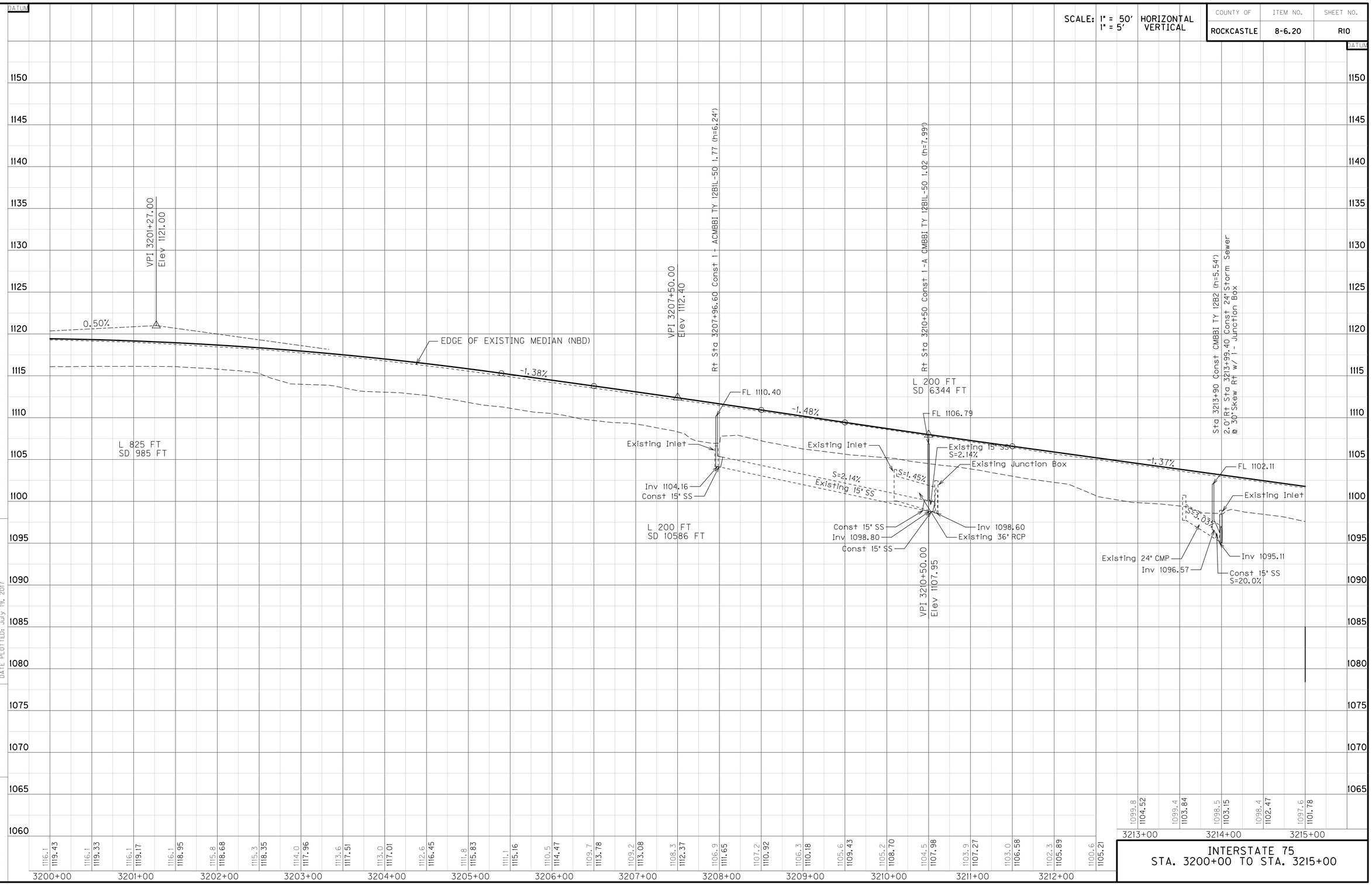
SCALE: 1"= 50'

INTERSTATE 75
STA. 3200+00 TO STA. 3215+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0090OPL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0090OPL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

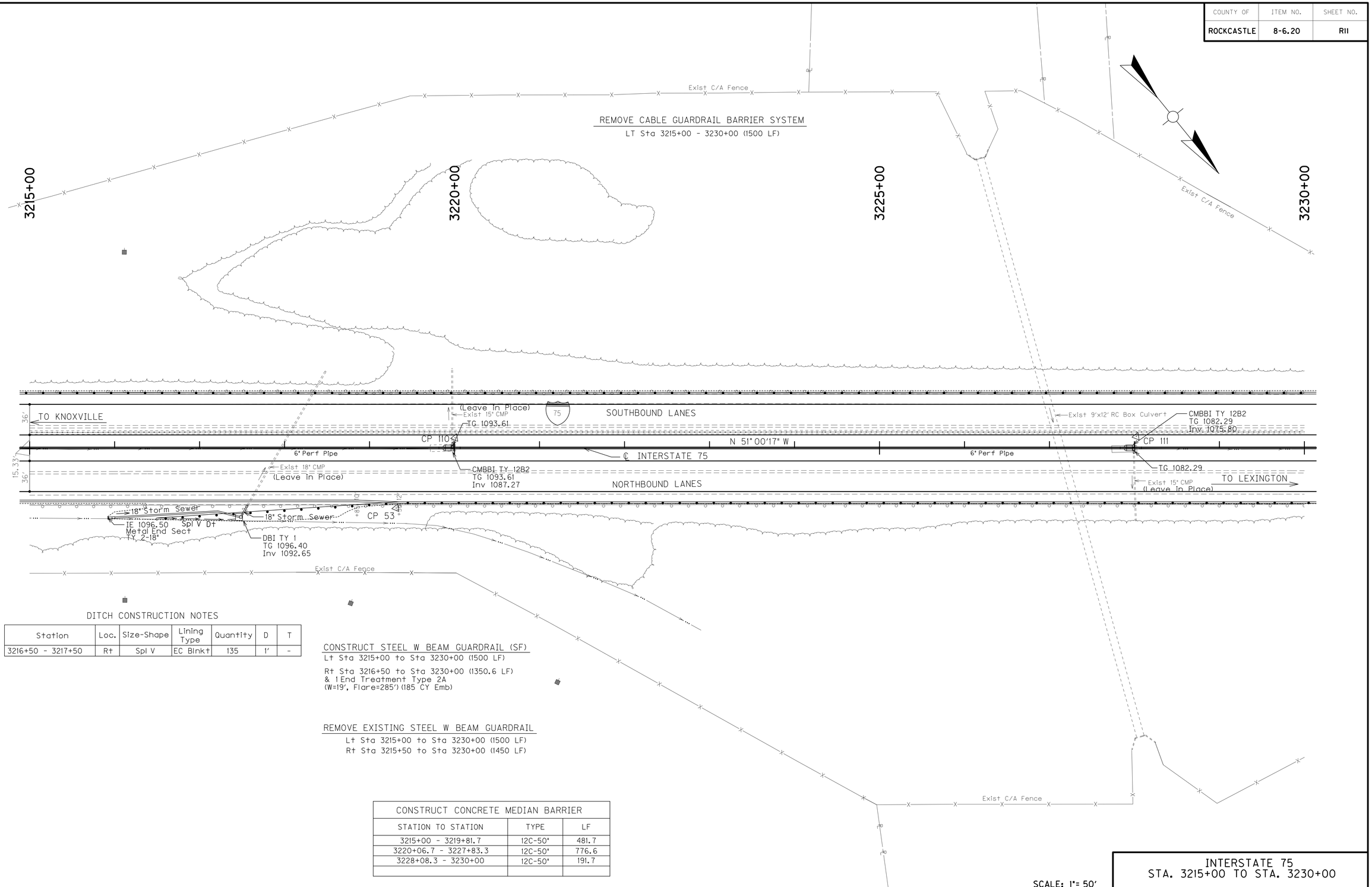
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R10



INTERSTATE 75
STA. 3200+00 TO STA. 3215+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R010OPF.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R11



DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3216+50 - 3217+50	Rt	Spl V	EC Blnkt	135	1'	-

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3215+00 to Sta 3230+00 (1500 LF)

Rt Sta 3216+50 to Sta 3230+00 (1350.6 LF)
& 1 End Treatment Type 2A
(W=19', Flare=285') (185 CY Emb)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3215+00 to Sta 3230+00 (1500 LF)
Rt Sta 3215+50 to Sta 3230+00 (1450 LF)

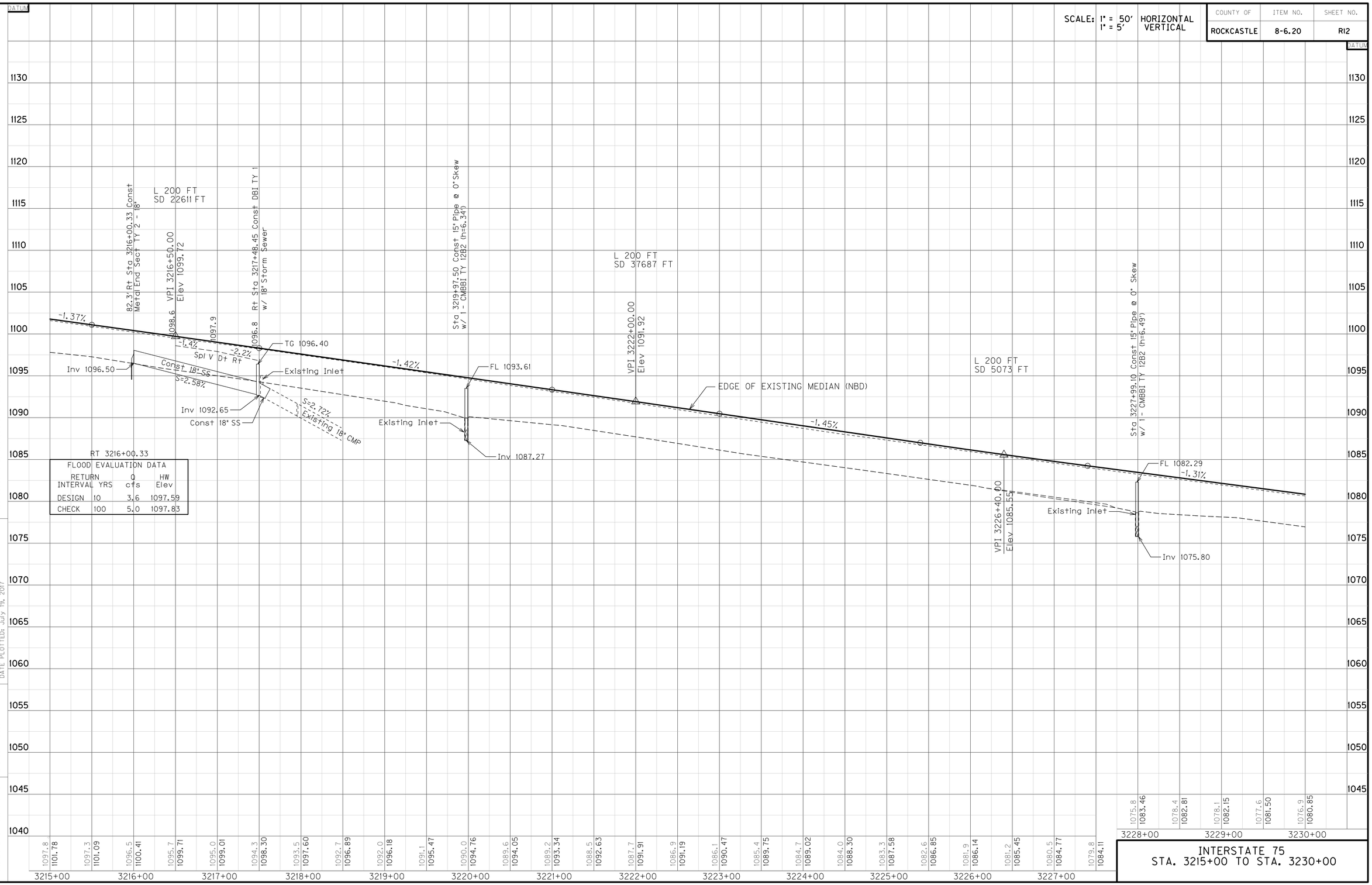
CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3215+00 - 3219+81.7	12C-50*	481.7
3220+06.7 - 3227+83.3	12C-50*	776.6
3228+08.3 - 3230+00	12C-50*	191.7

INTERSTATE 75
STA. 3215+00 TO STA. 3230+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R01100PL.DGN
USER: tbaker
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R12



INTERSTATE 75
STA. 3215+00 TO STA. 3230+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0120OPF.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R13

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3231+50 - 3234+00	Lt	15' FB	Rock Cut			
3234+00 - 3234+50	Lt	18' FB	Rock Cut			
3234+50 - 3235+50	Lt	17' FB	Rock Cut			
3235+50 - 3239+00	Lt	15' FB	Rock Cut			
3239+00 - 3239+50	Lt	Var FB	Cl I-A	30 Ton	d=1.0'	t=9"
3242+90 - 3243+10	Lt	Spl 2' FB	Cl II	35 Ton	d=1.0'	t=1.25"
3243+10 - 3245+00	Lt	Spl 2' FB	Rock Cut			
3243+50 - 3245+00	Rt	15' FB	Rock Cut			

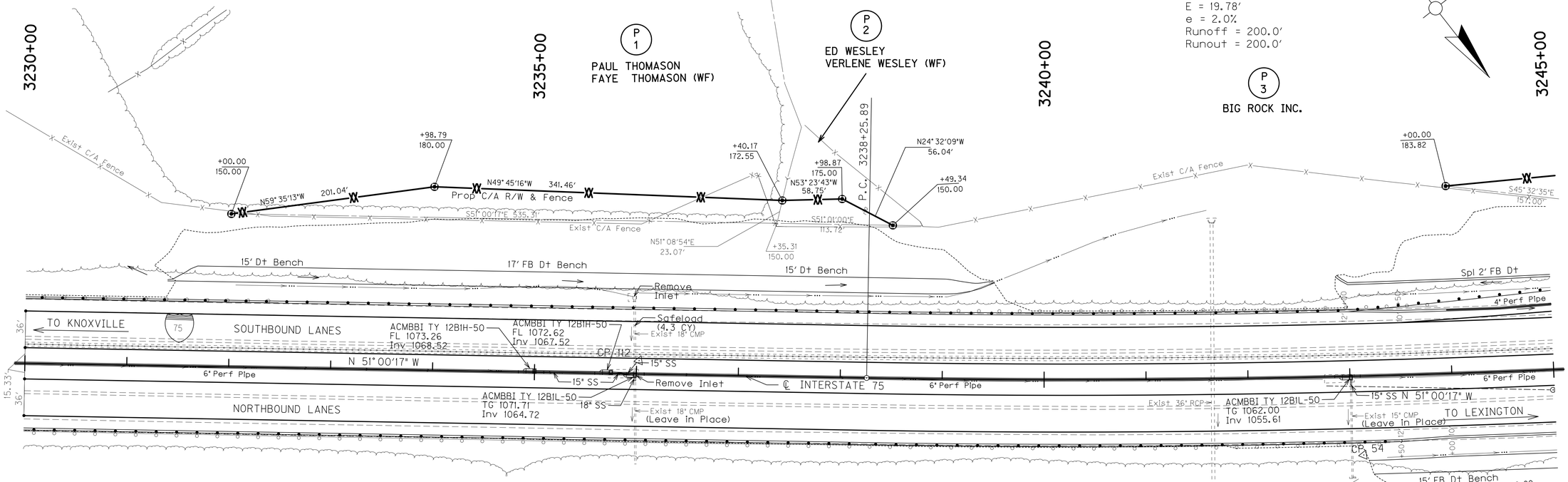
CONSTRUCT WOVEN WIRE FENCE TYPE 1

Lt. Station 3232+00 - 3238+49.34 (658 LF)
Lt. Station 3242+00 - 3245+00 (100 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

LT Sta 3230+00 - 3245+00 (1499 LF)

P.I. 3244+99.40
Δ = 6°43'39" Lt.
C = 0°30'00"
T = 673.51'
L = 1345.47'
R = 11459.16'
E = 19.78'
e = 2.0%
Runoff = 200.0'
Runout = 200.0'



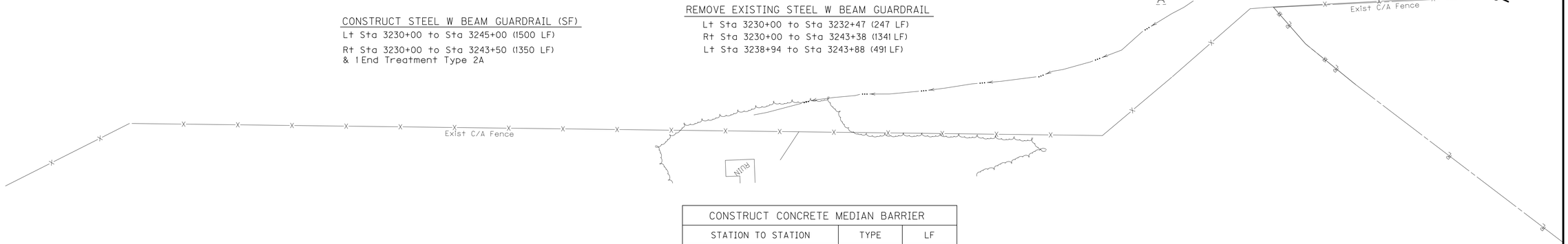
CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3230+00 to Sta 3245+00 (1500 LF)

Rt Sta 3230+00 to Sta 3243+50 (1350 LF)
& 1 End Treatment Type 2A

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3230+00 to Sta 3232+47 (247 LF)
Rt Sta 3230+00 to Sta 3243+38 (1341 LF)
Lt Sta 3238+94 to Sta 3243+88 (491 LF)



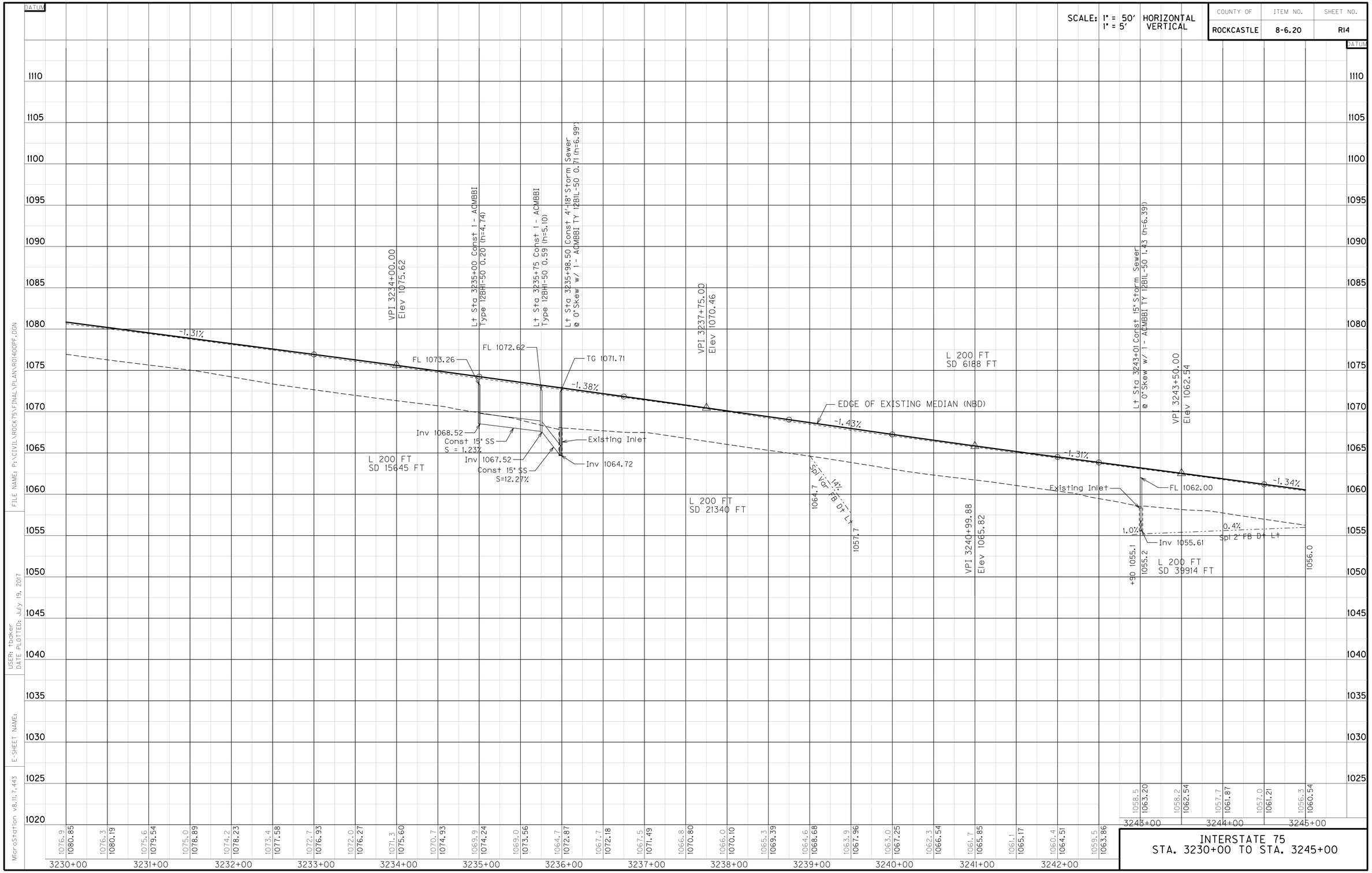
CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3230+00 - 3235+59.2	12C-50"	559.2
3236+07.7 - 3242+85.2	12C-50"	677.5
3243+10.2 - 3245+00	12C-50"	189.8

SCALE: 1"= 50'

INTERSTATE 75
STA. 3230+00 TO STA. 3245+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0130OPL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0130OPL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R14



INTERSTATE 75
STA. 3230+00 TO STA. 3245+00

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R15

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3245+00 to Sta 3247+95 (295 LF)
& 1 End Treatment Type 2A
(W=33', Flare=495')(470 CY EMB)

CONSTRUCT WOVEN WIRE FENCE TYPE 1

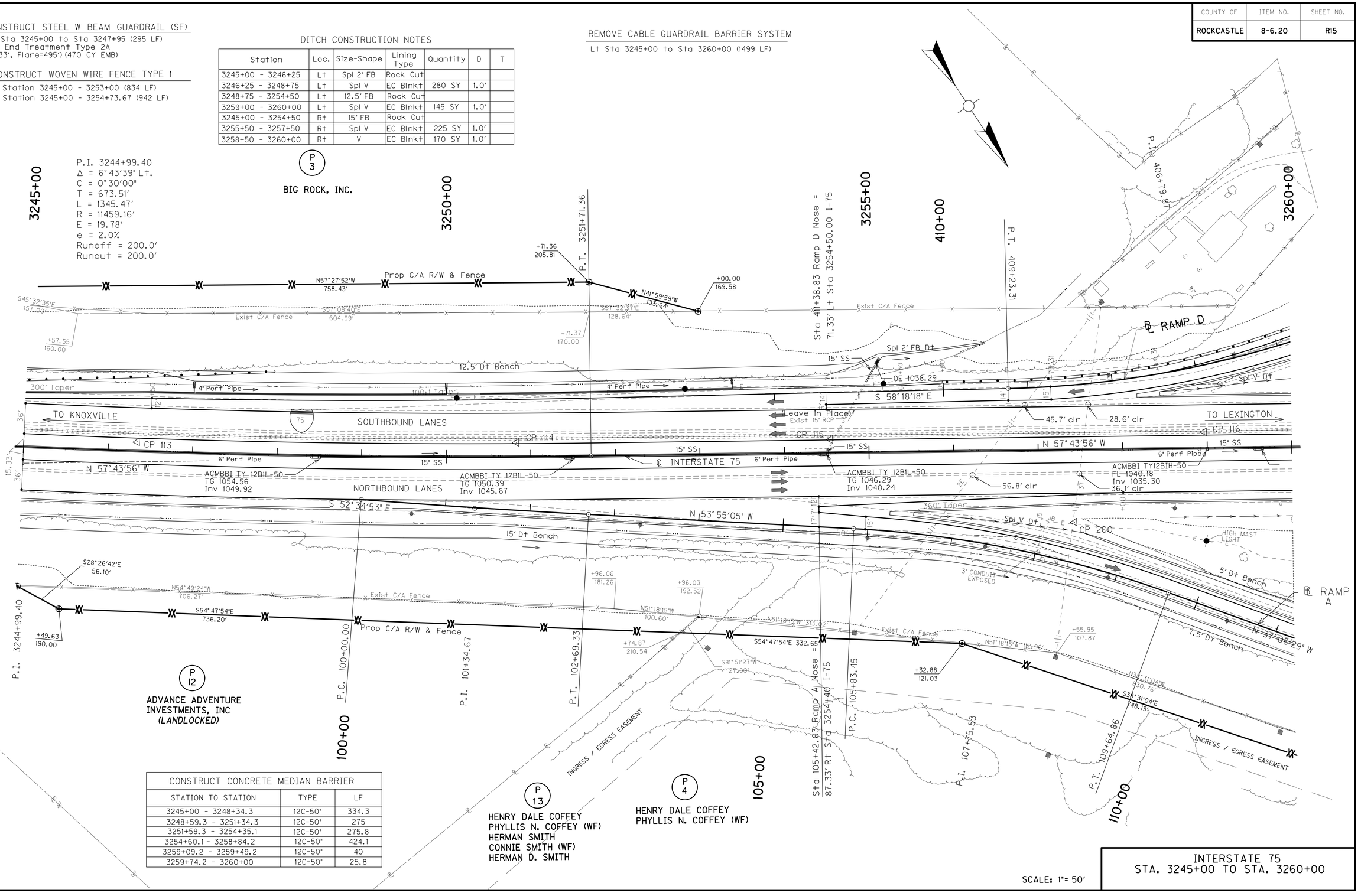
Lt. Station 3245+00 - 3253+00 (834 LF)
Rt. Station 3245+00 - 3254+73.67 (942 LF)

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3245+00 - 3246+25	Lt	Spl 2' FB	Rock Cut			
3246+25 - 3248+75	Lt	Spl V	EC Blnkt	280 SY	1.0'	
3248+75 - 3254+50	Lt	12.5' FB	Rock Cut			
3259+00 - 3260+00	Lt	Spl V	EC Blnkt	145 SY	1.0'	
3245+00 - 3254+50	Rt	15' FB	Rock Cut			
3255+50 - 3257+50	Rt	Spl V	EC Blnkt	225 SY	1.0'	
3258+50 - 3260+00	Rt	V	EC Blnkt	170 SY	1.0'	

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3245+00 to Sta 3260+00 (1499 LF)



CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3245+00 - 3248+34.3	12C-50"	334.3
3248+59.3 - 3251+34.3	12C-50"	275
3251+59.3 - 3254+35.1	12C-50"	275.8
3254+60.1 - 3258+84.2	12C-50"	424.1
3259+09.2 - 3259+49.2	12C-50"	40
3259+74.2 - 3260+00	12C-50"	25.8

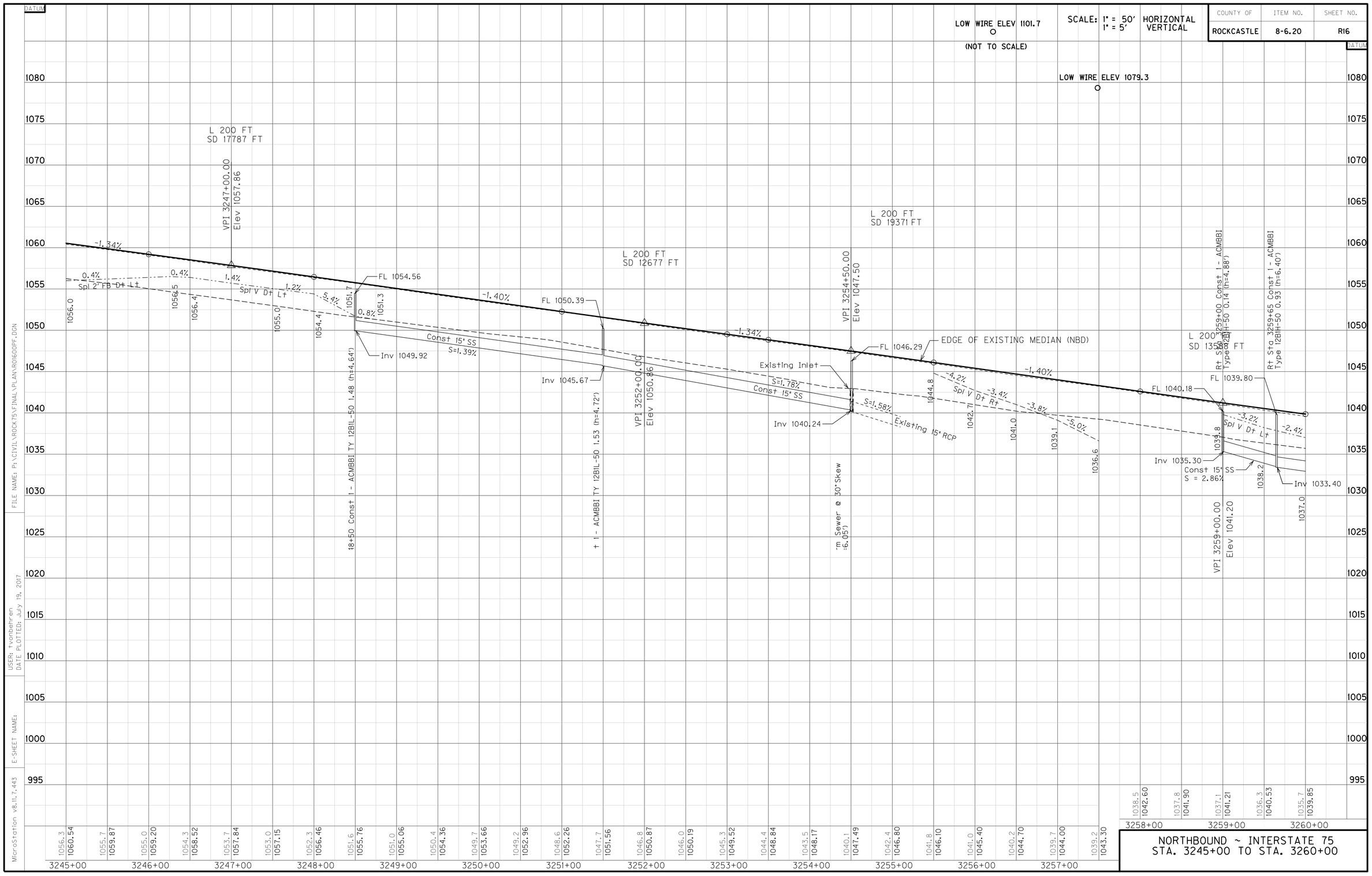
SCALE: 1"= 50'

INTERSTATE 75
STA. 3245+00 TO STA. 3260+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R015OOPL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R015OOPL
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R16

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

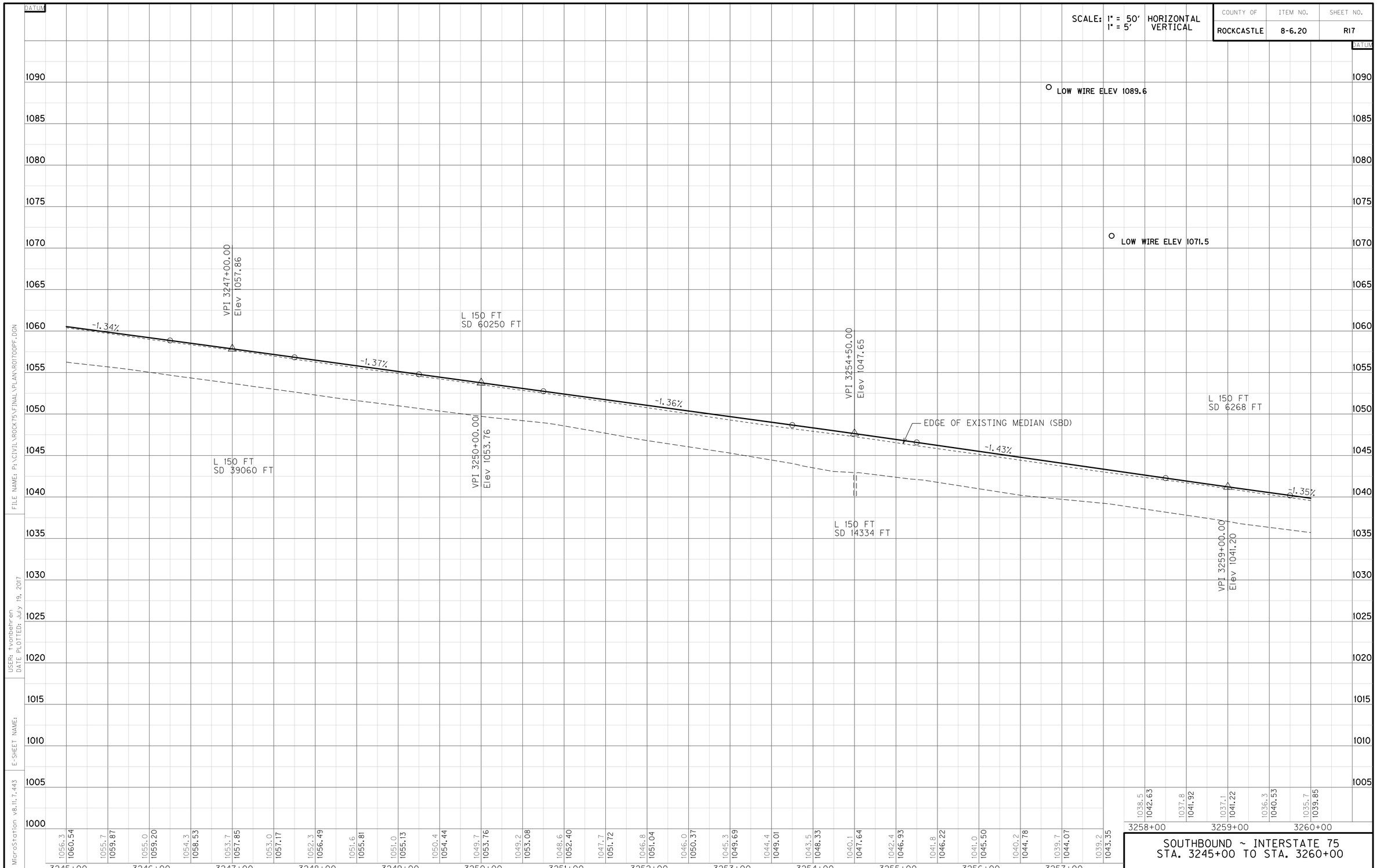


NORTHBOUND ~ INTERSTATE 75
STA. 3245+00 TO STA. 3260+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R016OOPF.DGN
USER: tvonbehren
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R17

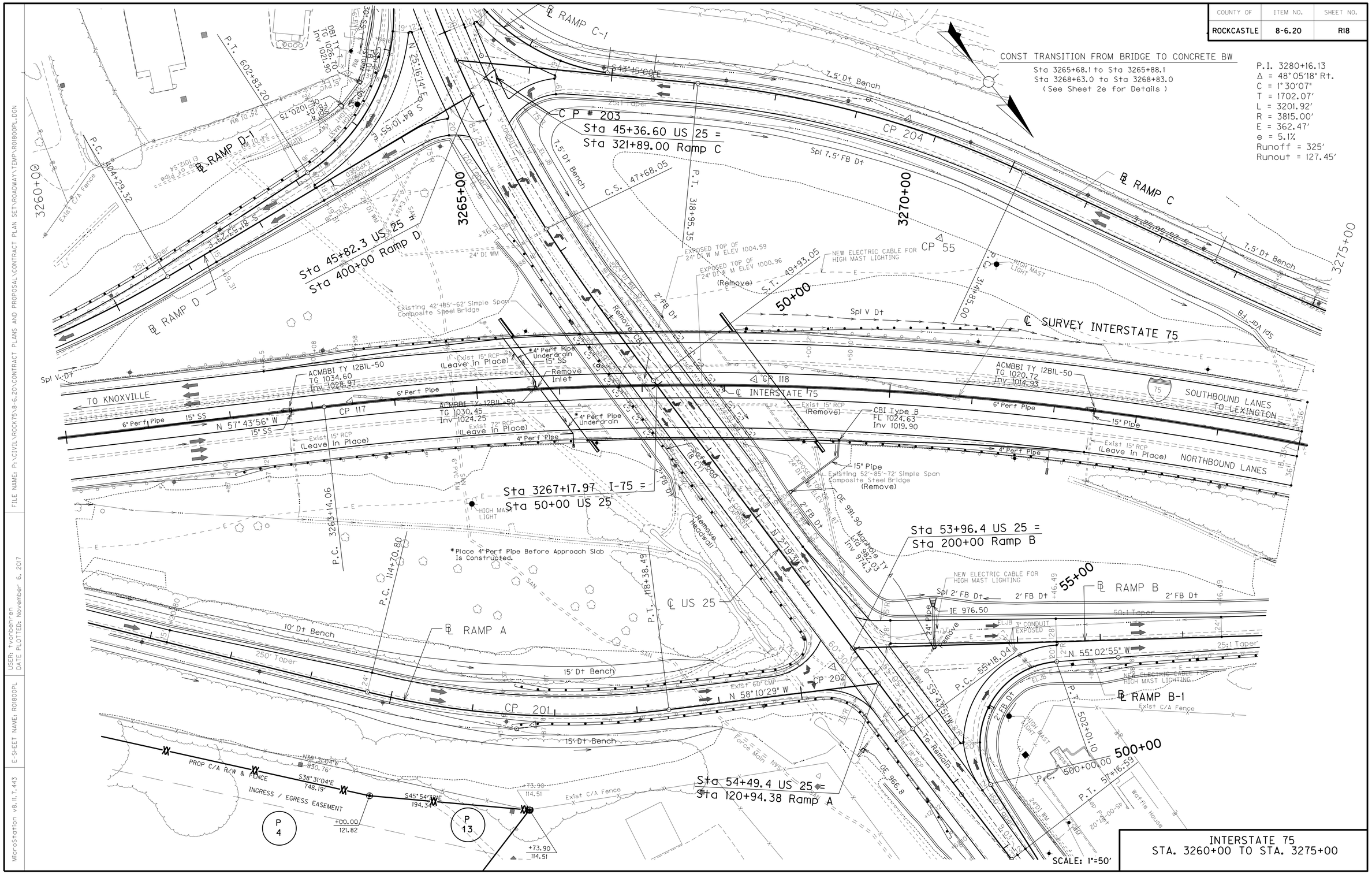
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



SOUTHBOUND ~ INTERSTATE 75
STA. 3245+00 TO STA. 3260+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R017OOPF.DGN
USER: tvanbehren
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R18



INTERSTATE 75
STA. 3260+00 TO STA. 3275+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R018OOPL.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R018OOPL
MicroStation v8.11.7.443

CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3260+00 - 3262+57.6	12C-50"	257.6
3262+82.6 - 3265+55.6	12C-50"	273.0
3265+80.6 - 3265+88.1	12C-50"	7.5
3268+63.0 - 3272+32.4	12C-50"	369.4
3272+57.4 - 3275+00	12C-50"	242.6

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3260+00 - 3260+50	Lt	Spl V	EC Blnkt	56 SY	1.0'	
3268+25 - 3272+50	Lt	Spl V	EC Blnkt	440 SY	1.0'	
3260+00 - 3260+15	Rt	V	EC Blnkt	18 SY	1.0'	

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3263+59.2 to Sta 3265+55.9 (200 LF) & 1 End Treatment Type 2A & 1 Guardrail Connector to Bridge End Type A-1

Lt Sta 3268+04.5 to Sta 3271+47 (350 LF) & 1 Guardrail Connector to Bridge End Type A & 1 End Treatment Type 2A (W=22', Flare=330') (225 CY Emb)

Rt Sta 3261+99 to Sta 3266+41.9 (400 LF) & 1 End Treatment Type 4A W/ 1 Object Marker Ty 3 (32 CY Emb) & 1 Guardrail Connector to Bridge End Type A

Rt Sta 3269+03.8 to Sta 3275+00 (586.3 LF) & 1 Guardrail Connector to Bridge End Type A-1

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3261+47 to Sta 3265+83 (441 LF)

Rt Sta 3260+00 to Sta 3266+61 (655 LF)

Lt Sta 3263+51 to Rt Sta 3266+33 (Med) (469 LF)

Lt Sta 3267+76 to Sta 3270+99 (329 LF)

Lt Sta 3268+04 to Rt Sta 3270+85 (Med) (469 LF)

Rt Sta 3268+81 to Sta 3275+00 (608 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3260+00 to Sta 3265+68 (569 LF)
Lt Sta 3270+81 to Sta 3266+61 (422 LF)

REMOVE EXISTING BRIDGE

Lt Sta 3267+17.97 (US 25 Sta 50+00) 42'-85'-62'
Simple Span Composite Steel Bridge (over US 25)

Rt Sta 3267+17.97 (US 25 Sta 50+00) 52'-85'-72'
Simple Span Composite Steel Bridge (over US 25)

CONSTRUCT ISLAND HEADER CURB

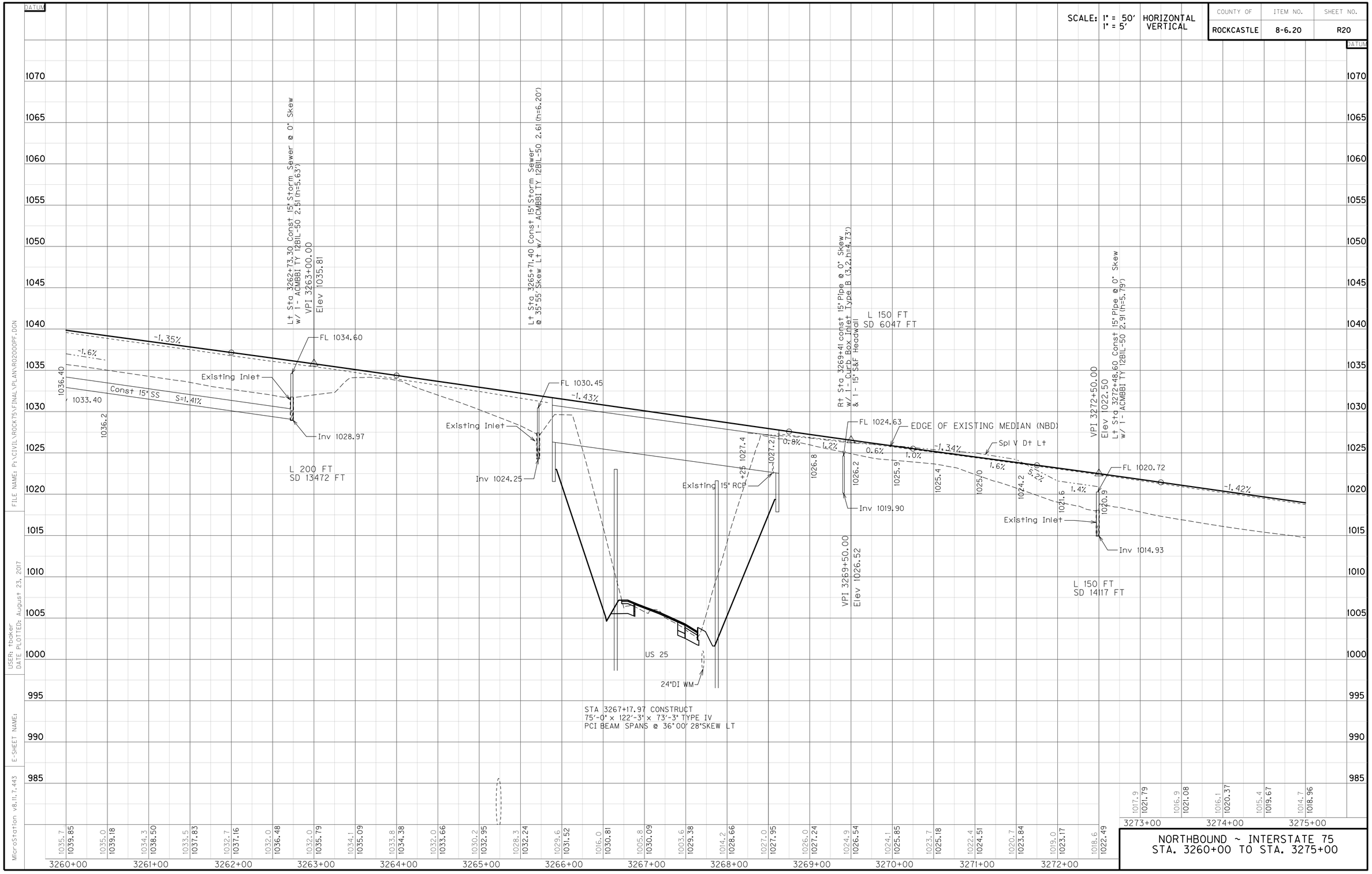
Rt Sta 3269+13.6 to Sta 3269+31.2 (17.3 LF)

SCALE: 1"= 50'

INTERSTATE 75
STA 3260+00 TO STA 3275+00
NOTES

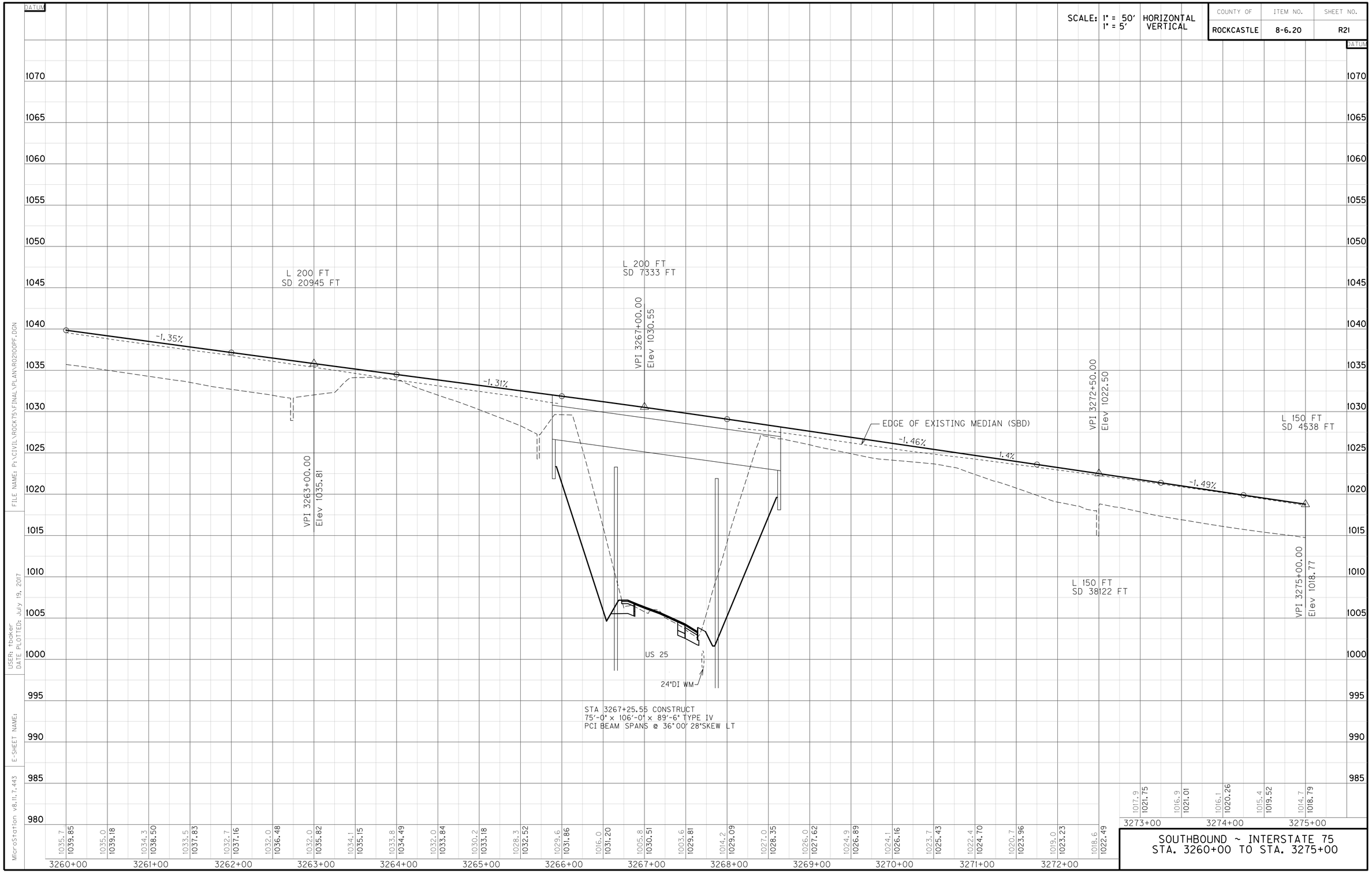
FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R01900PL.DGN
USER: tvonbehren
DATE PLOTTED: September 6, 2017
E-SHEET NAME: R01900PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R20



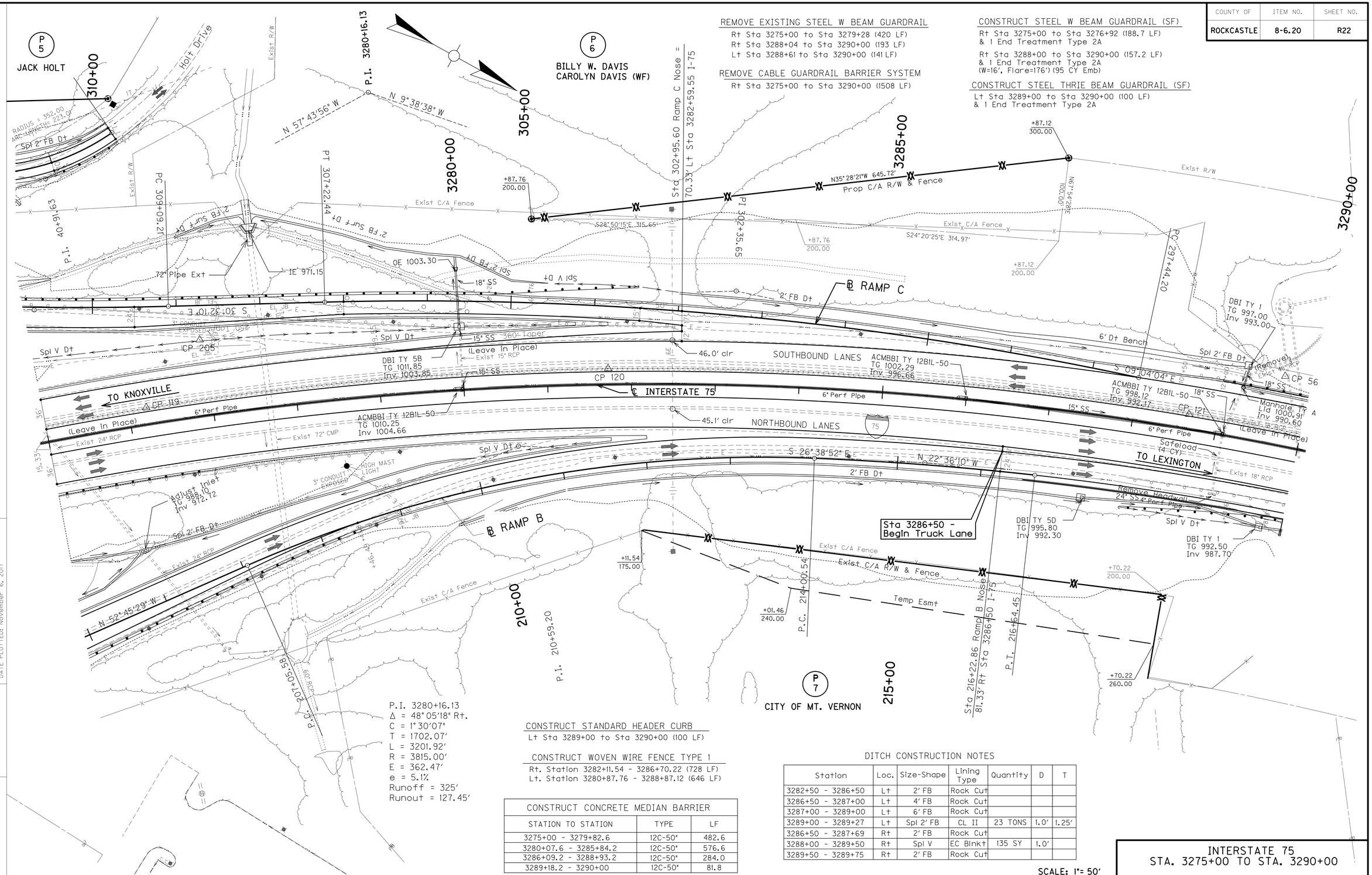
NORTHBOUND ~ INTERSTATE 75
STA. 3260+00 TO STA. 3275+00

SCALE:			COUNTY OF	ITEM NO.	SHEET NO.
1" = 50'	1" = 5'	HORIZONTAL VERTICAL	ROCKCASTLE	8-6.20	R21



SOUTHBOUND ~ INTERSTATE 75
STA. 3260+00 TO STA. 3275+00

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R22



REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 3275+00 to Sta 3279+28 (420 LF)
Rt Sta 3288+04 to Sta 3290+00 (193 LF)
Lt Sta 3288+61 to Sta 3290+00 (141 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Rt Sta 3275+00 to Sta 3290+00 (1508 LF)

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 3275+00 to Sta 3276+92 (188.7 LF)
& 1 End Treatment Type 2A

Rt Sta 3288+00 to Sta 3290+00 (157.2 LF)
& 1 End Treatment Type 2A
(W=16', Flare=176') (95 CY Emb)

CONSTRUCT STEEL THRIE BEAM GUARDRAIL (SF)

Lt Sta 3289+00 to Sta 3290+00 (100 LF)
& 1 End Treatment Type 2A

CONSTRUCT STANDARD HEADER CURB

Lt Sta 3289+00 to Sta 3290+00 (100 LF)

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Rt. Station 3282+11.54 - 3286+70.22 (728 LF)
Lt. Station 3280+87.76 - 3288+87.12 (646 LF)

CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3275+00 - 3279+82.6	12C-50*	482.6
3280+07.6 - 3285+84.2	12C-50*	576.6
3286+09.2 - 3288+93.2	12C-50*	284.0
3289+18.2 - 3290+00	12C-50*	81.8

DITCH CONSTRUCTION NOTES

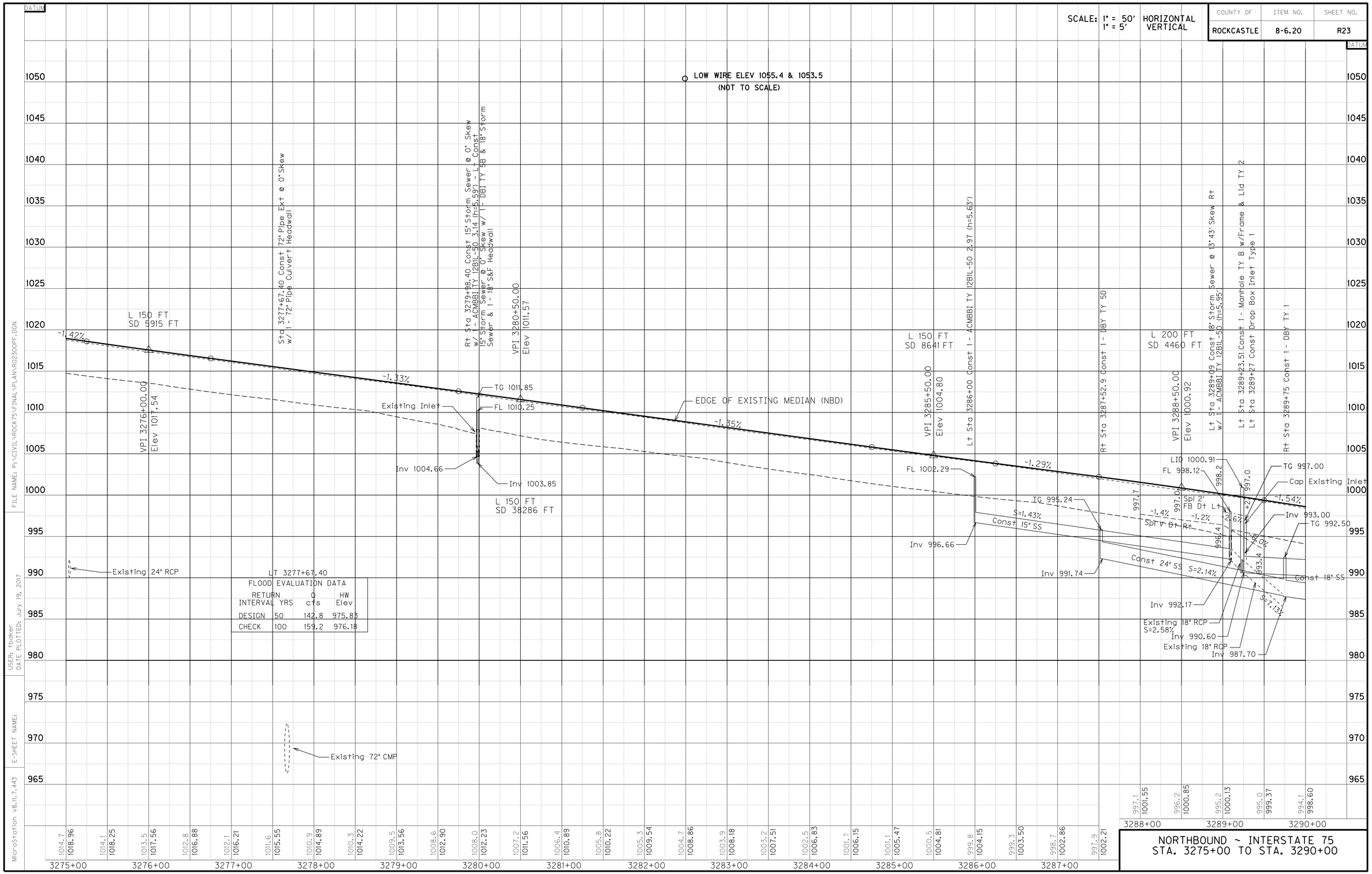
Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3282+50 - 3286+50	Lt	2' FB	Rock Cut			
3286+50 - 3287+00	Lt	4' FB	Rock Cut			
3287+00 - 3289+00	Lt	6' FB	Rock Cut			
3289+00 - 3289+27	Lt	Spl 2' FB	CL II	23 TONS	1.0'	1.25'
3286+50 - 3287+69	Rt	2' FB	Rock Cut			
3288+00 - 3289+50	Rt	Spl V	EC Blnkt	135 SY	1.0'	
3289+50 - 3289+75	Rt	2' FB	Rock Cut			

SCALE: 1"= 50'

INTERSTATE 75
STA. 3275+00 TO STA. 3290+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R02200PL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R02200PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R23



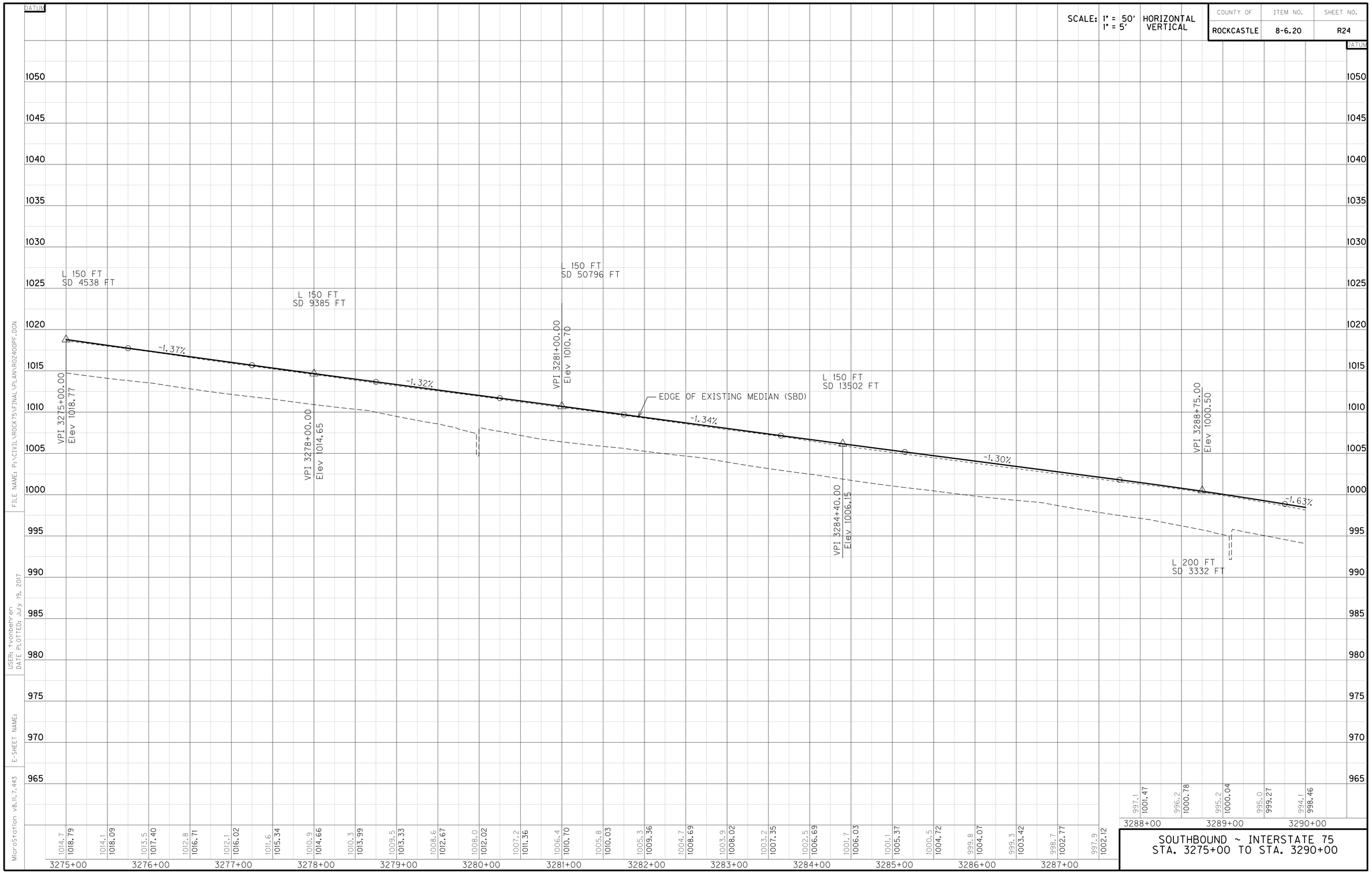
FLOOD EVALUATION DATA

RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN 50	142.8	975.83
CHECK 100	159.2	976.18

NORTHBOUND ~ INTERSTATE 75
STA. 3275+00 TO STA. 3290+00

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R24

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



SOUTHBOUND ~ INTERSTATE 75
STA. 3275+00 TO STA. 3290+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R02400PF.DGN
USER: tvonbehren
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R25

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 3289+75 to Sta 3300+85
Rt Sta 3301+75 to Sta 3303+75

CONSTRUCT STEEL THRIE BEAM GUARDRAIL (SF)

Lt Sta 3290+00 to Sta 3300+73.9 (1082.5 LF)
& 1 Guardrail Connector to Bridge End Type A-1

REMOVE EXISTING BRIDGE

Lt Sta 3301+22.47 Remove 70' Simple Span Welded Plate Girder Bridge (over Rose Hill)

Rt Sta 3301+22.47 Remove 70' Simple Span Welded Plate Girder Bridge (over Rose Hill)

CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3290+00 - 3293+84.2	12C-50*	384.2
3294+09.2 - 3294+80.5	12C-50*	71.3
3295+05.5 - 3295+90.8	12C-50*	85.3
3296+15.8 - 3298+55.8	12C-50*	240.0
3299+05.8 - 3300+45.8	12C-50*	140.0
3300+70.8 - 3300+84.8	12C-50*	14.0
3301+67 - 3302+10.8	12C-50*	43.8
3302+35.8 - 3303+90.8	12C-50*	155.0
3304+15.8 - 3304+90.8	12C-50*	75.0

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3301+60 - 3302+20	Lt	Spl 2' FB	EC Blnkt	70 SY	1.0'	
3302+20 - 3303+50	Lt	Spl 2' FB	CL II	90 TONS	1.0'	1.25'
3303+50 - 3303+88	Lt	Spl 2' FB	EC Blnkt	63 SY	1.0'	
3303+88 - 3304+50	Lt	Spl 2' FB	CL II	66 TONS	1.0'	1.25'
3304+50 - 3305+00	Lt	2' FB	EC Blnkt	56 SY	1.0'	-
3303+00 - 3304+00	Rt	2' FB Surf	CL IA	40 TONS	1.0'	0.75'
3304+00 - 3304+50	Rt	Spl 2' FB	CL IA	25 TONS	1.0'	0.75'
3304+50 - 3305+00	Rt	2' FB	CL II	35 TONS	1.0'	1.25'

CONST TRANSITION FROM BRIDGE TO CONCRETE BW

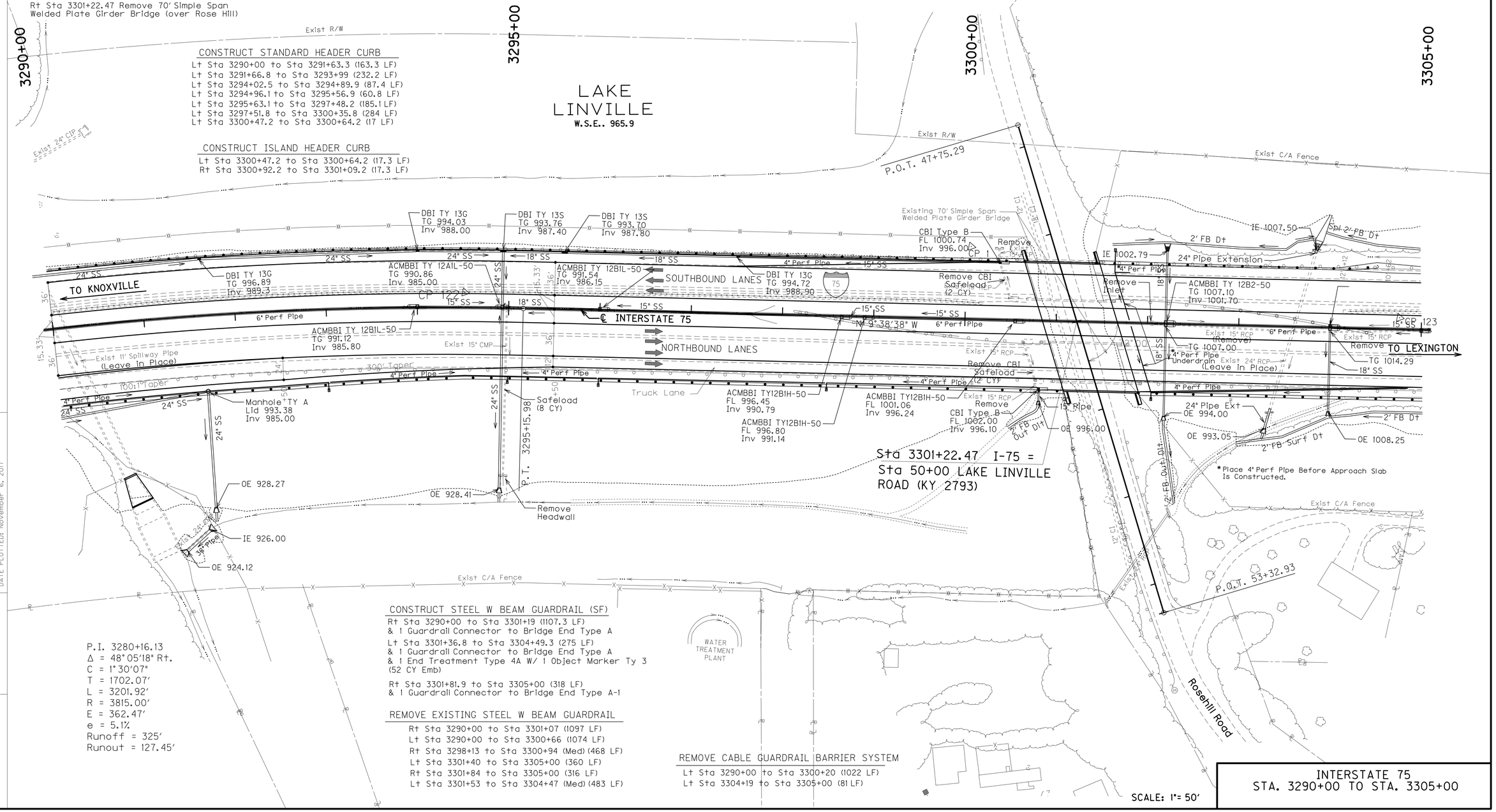
Sta 3300+74.8 to Sta 3300+84.8
Sta 3301+67 to Sta 3301+77

CONSTRUCT STANDARD HEADER CURB

Lt Sta 3290+00 to Sta 3291+63.3 (163.3 LF)
Lt Sta 3291+66.8 to Sta 3293+99 (232.2 LF)
Lt Sta 3294+02.5 to Sta 3294+89.9 (87.4 LF)
Lt Sta 3294+96.1 to Sta 3295+56.9 (60.8 LF)
Lt Sta 3295+63.1 to Sta 3297+48.2 (185.1 LF)
Lt Sta 3297+51.8 to Sta 3300+35.8 (284 LF)
Lt Sta 3300+47.2 to Sta 3300+64.2 (17 LF)

CONSTRUCT ISLAND HEADER CURB

Lt Sta 3300+47.2 to Sta 3300+64.2 (17.3 LF)
Rt Sta 3300+92.2 to Sta 3301+09.2 (17.3 LF)



P.I. 3280+16.13
Δ = 48°05'18" Rt.
C = 1°30'07"
T = 1702.07'
L = 3201.92'
R = 3815.00'
E = 362.47'
e = 5.1%
Runoff = 325'
Runout = 127.45'

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 3290+00 to Sta 3301+19 (1107.3 LF)
& 1 Guardrail Connector to Bridge End Type A

Lt Sta 3301+36.8 to Sta 3304+49.3 (275 LF)
& 1 Guardrail Connector to Bridge End Type A
& 1 End Treatment Type 4A W/ 1 Object Marker Ty 3 (52 CY Emb)

Rt Sta 3301+81.9 to Sta 3305+00 (318 LF)
& 1 Guardrail Connector to Bridge End Type A-1

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 3290+00 to Sta 3301+07 (1097 LF)
Lt Sta 3290+00 to Sta 3300+66 (1074 LF)
Rt Sta 3298+13 to Sta 3300+94 (Med) (468 LF)
Lt Sta 3301+40 to Sta 3305+00 (360 LF)
Rt Sta 3301+84 to Sta 3305+00 (316 LF)
Lt Sta 3301+53 to Sta 3304+47 (Med) (483 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3290+00 to Sta 3300+20 (1022 LF)
Lt Sta 3304+19 to Sta 3305+00 (81 LF)

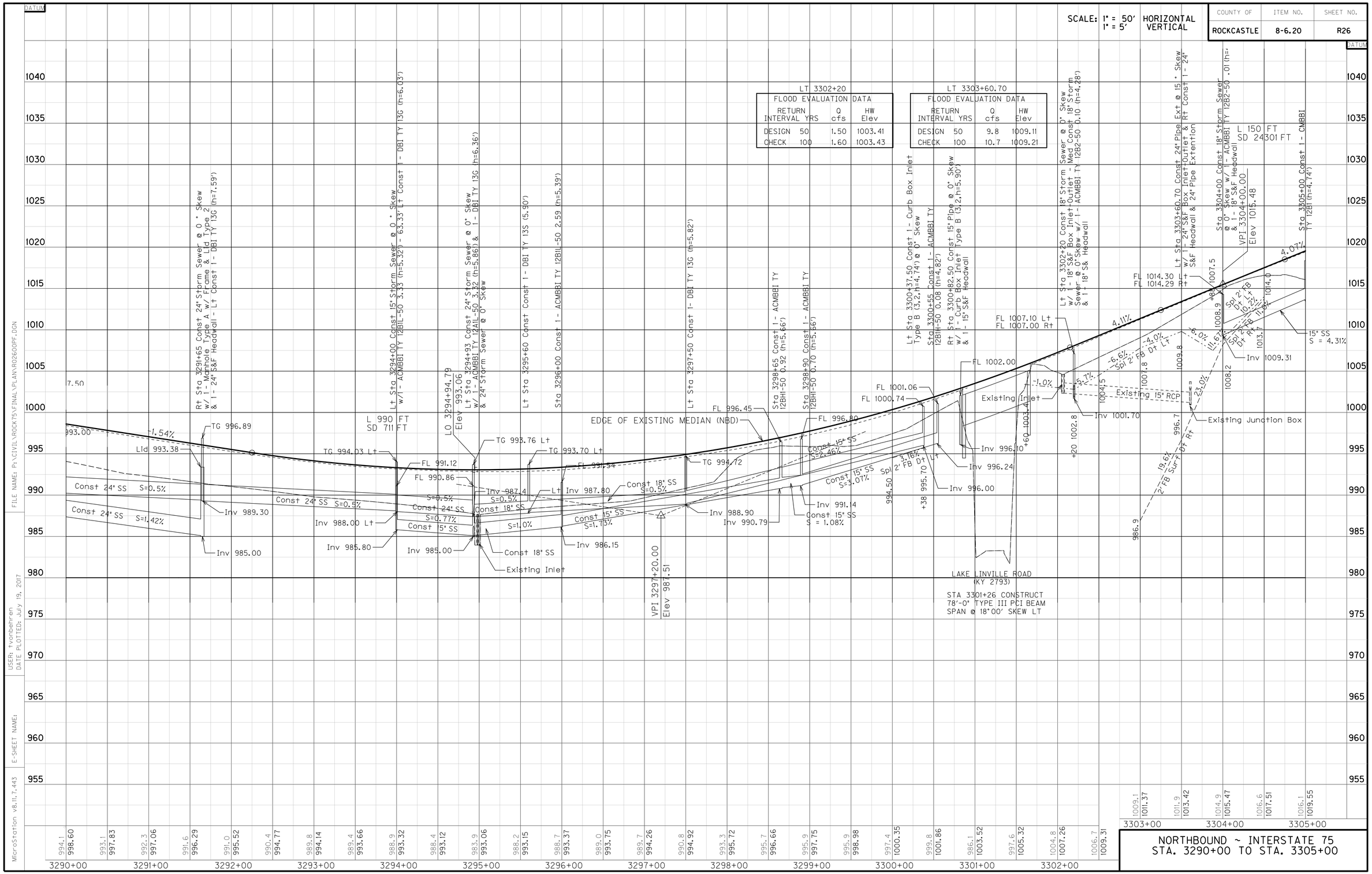
SCALE: 1"= 50'

INTERSTATE 75
STA. 3290+00 TO STA. 3305+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R02500PL.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R02500PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

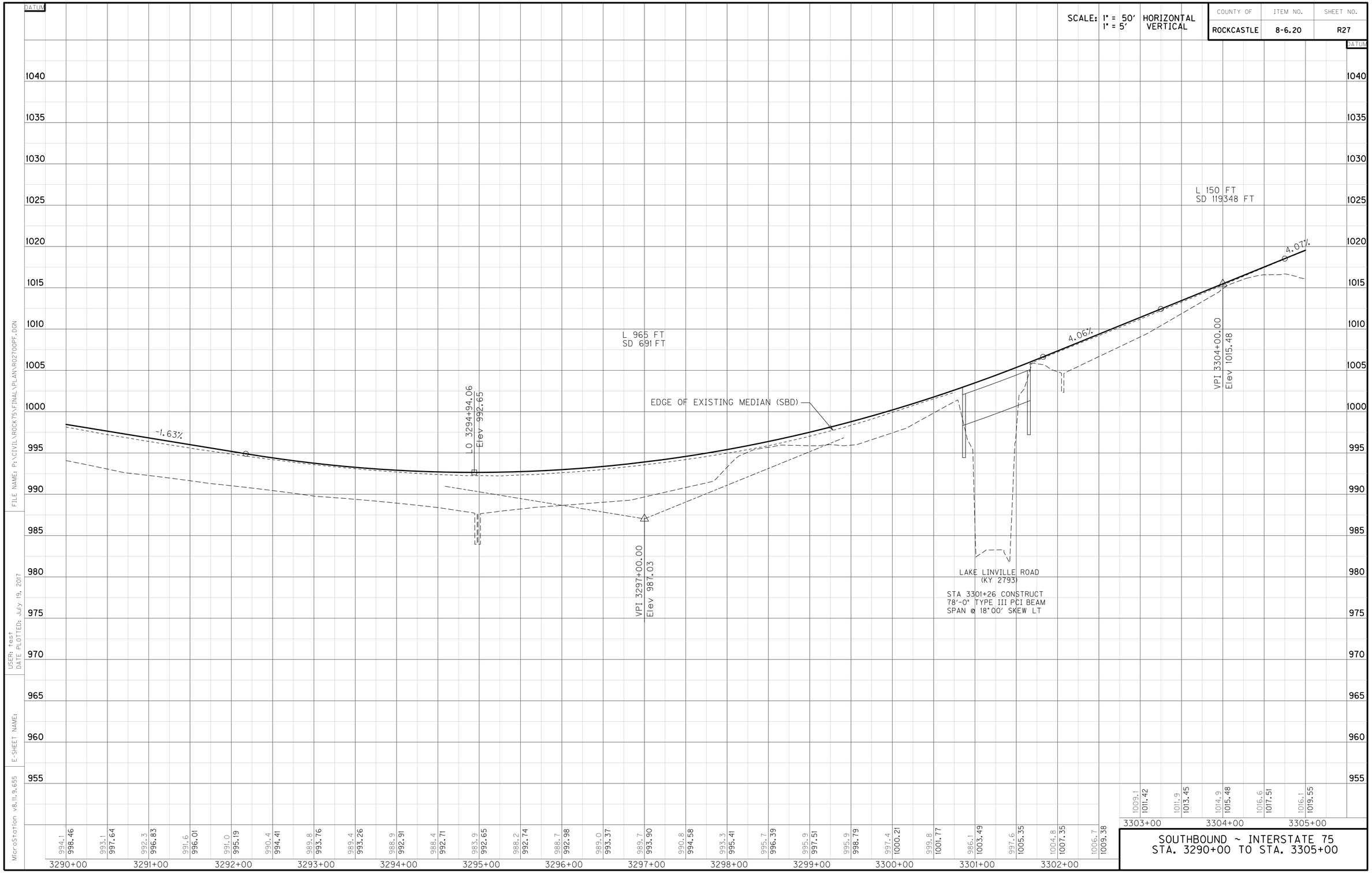
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R26



NORTHBOUND ~ INTERSTATE 75
STA. 3290+00 TO STA. 3305+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R02600PF.DGN
USER: tvonbehren
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R27



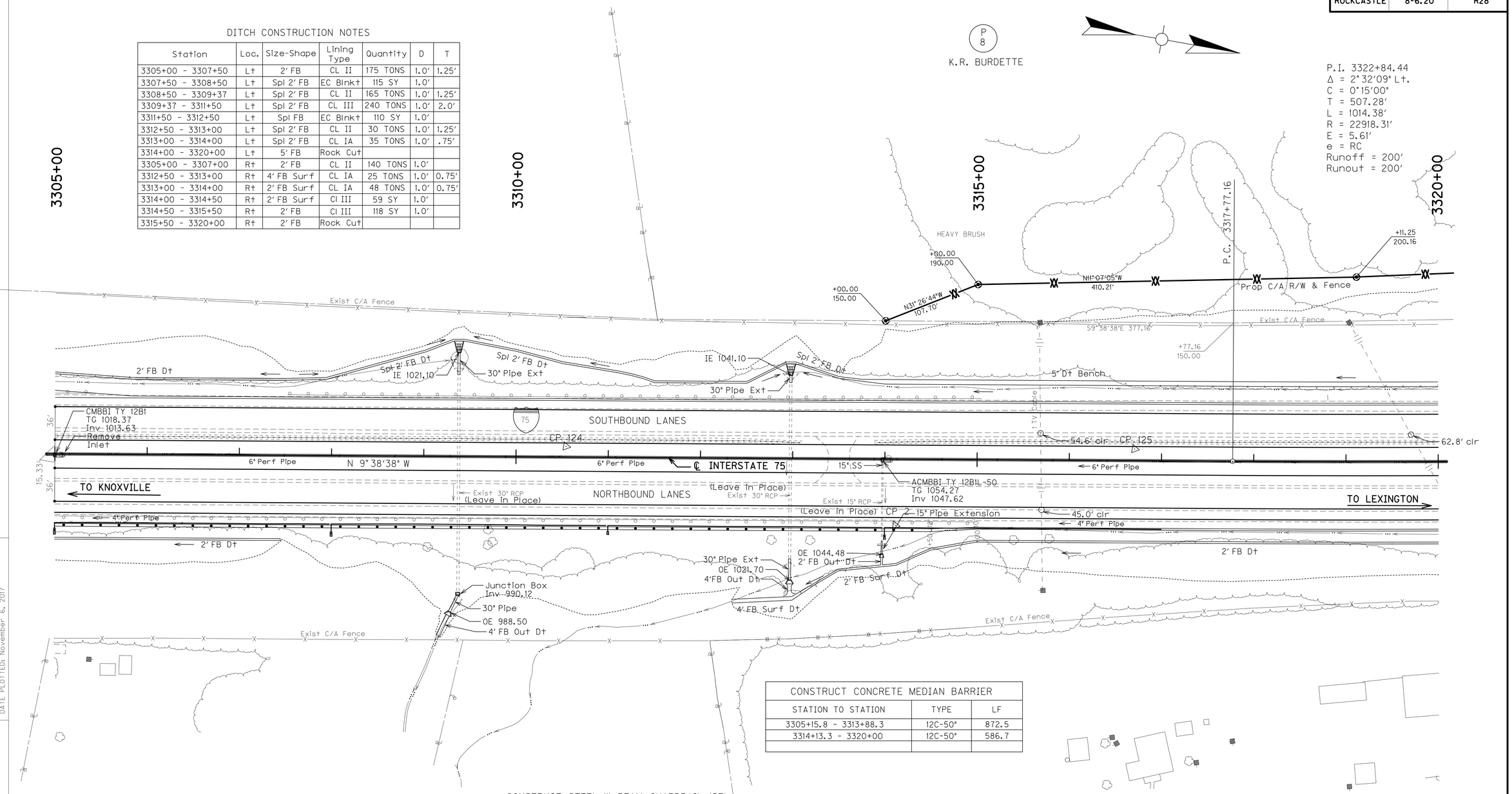
SOUTHBOUND ~ INTERSTATE 75
STA. 3290+00 TO STA. 3305+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R02700PF.DGN
USER: test
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.9.655

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R28

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3305+00 - 3307+50	Lt	2' FB	CL II	175 TONS	1.0'	1.25'
3307+50 - 3308+50	Lt	Spl 2' FB	EC Blnkt	115 SY	1.0'	
3308+50 - 3309+37	Lt	Spl 2' FB	CL II	165 TONS	1.0'	1.25'
3309+37 - 3311+50	Lt	Spl 2' FB	CL III	240 TONS	1.0'	2.0'
3311+50 - 3312+50	Lt	Spl FB	EC Blnkt	110 SY	1.0'	
3312+50 - 3313+00	Lt	Spl 2' FB	CL II	30 TONS	1.0'	1.25'
3313+00 - 3314+00	Lt	Spl 2' FB	CL IA	35 TONS	1.0'	.75'
3314+00 - 3320+00	Lt	5' FB	Rock Cut			
3305+00 - 3307+00	Rt	2' FB	CL II	140 TONS	1.0'	
3312+50 - 3313+00	Rt	4' FB Surf	CL IA	25 TONS	1.0'	0.75'
3313+00 - 3314+00	Rt	2' FB Surf	CL IA	48 TONS	1.0'	0.75'
3314+00 - 3314+50	Rt	2' FB Surf	Cl III	59 SY	1.0'	
3314+50 - 3315+50	Rt	2' FB	Cl III	118 SY	1.0'	
3315+50 - 3320+00	Rt	2' FB	Rock Cut			



CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3305+15.8 - 3313+88.3	12C-50"	872.5
3314+13.3 - 3320+00	12C-50"	586.7

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 3305+00 to Sta 3314+50 (950.1 LF)
& 1 End Treatment Type 2A

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 3307+75 to Sta 3314+25

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Rt Sta 3314+00 - 3320+00 (607 LF)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3305+00 to Sta 3305+44 (44 LF)
Lt Sta 3307+52 to Sta 3315+04 (772 LF)
Rt Sta 3305+00 to Sta 3314+98 (998 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3305+00 to Sta 3320+00 (1500 LF)

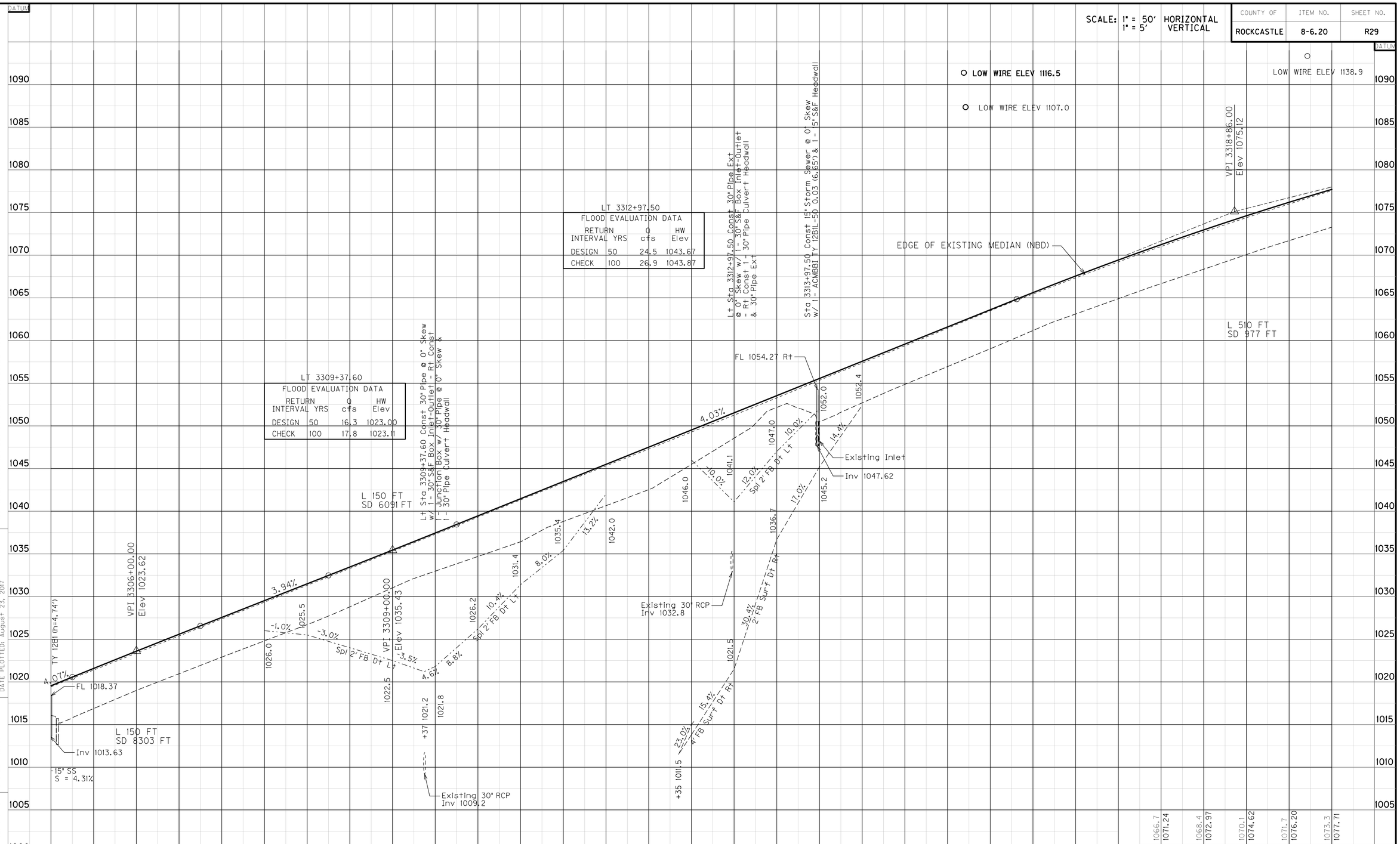
SCALE: 1"= 50'

INTERSTATE 75
STA. 3305+00 TO STA. 3320+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R02800PL.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R02800PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R29



INTERSTATE 75
STA. 3305+00 TO STA. 3320+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R02900PF.DGN
USER: tvanbehren
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

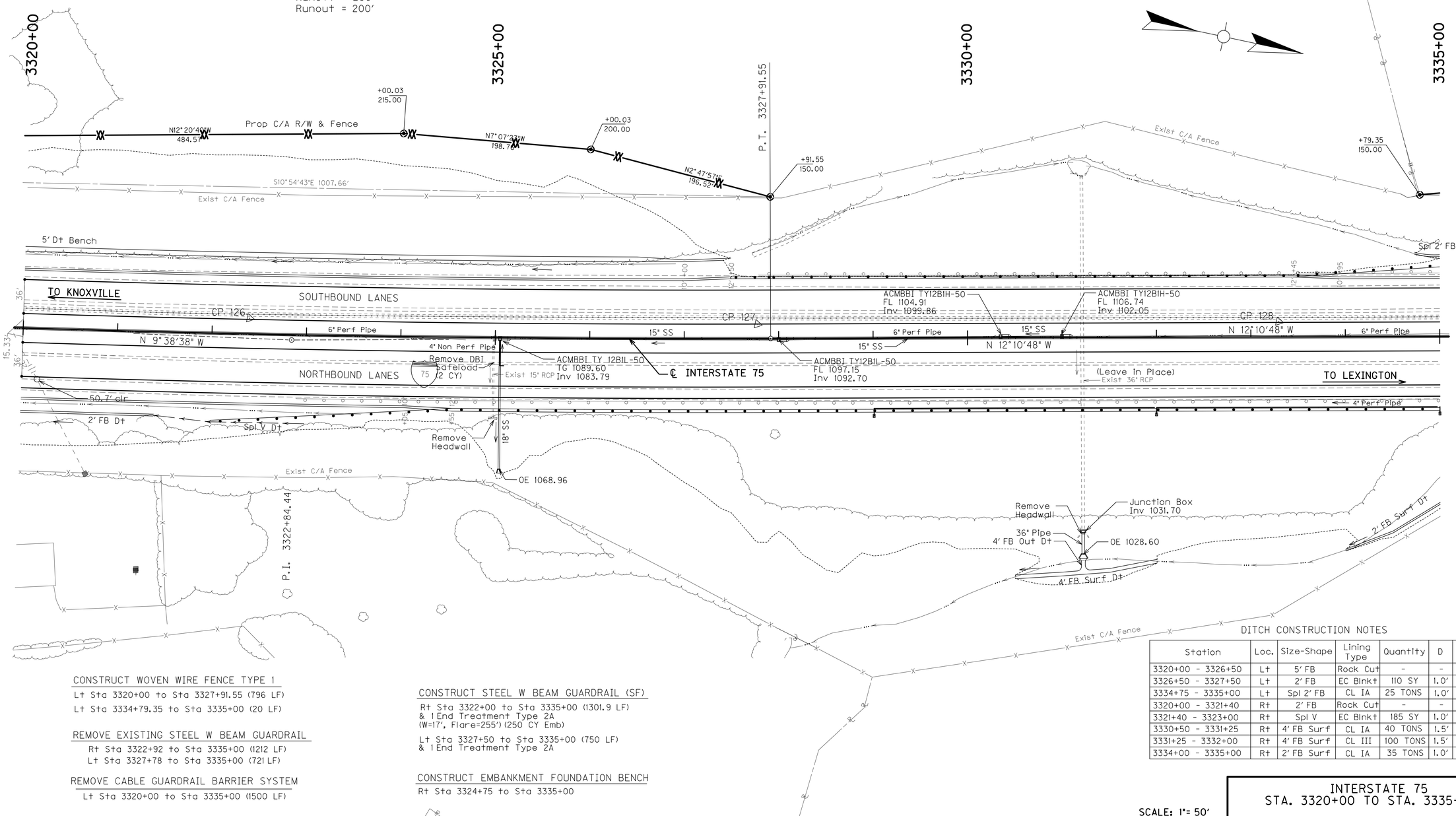
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R30

P
8

K.R. BURDETTE

P.I. 3322+84.44
Δ = 2°32'09" Lt.
C = 0°15'00"
T = 507.28'
L = 1014.38'
R = 22918.31'
E = 5.61'
e = RC
Runoff = 200'
Runout = 200'

CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3320+00 - 3324+95.8	12C-50*	495.8
3325+20.8 - 3327+98.3	12C-50*	277.5
3328+15.8 - 3330+25.8	12C-50*	210.0
3330+50.8 - 3330+90.8	12C-50*	40.0
3331+15.8 - 3335+00	12C-50*	384.2



CONSTRUCT WOVEN WIRE FENCE TYPE 1

Lt Sta 3320+00 to Sta 3327+91.55 (796 LF)
Lt Sta 3334+79.35 to Sta 3335+00 (20 LF)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 3322+92 to Sta 3335+00 (1212 LF)
Lt Sta 3327+78 to Sta 3335+00 (721 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3320+00 to Sta 3335+00 (1500 LF)

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 3322+00 to Sta 3335+00 (1301.9 LF)
& 1 End Treatment Type 2A
(W=17', Flare=255')(250 CY Emb)

Lt Sta 3327+50 to Sta 3335+00 (750 LF)
& 1 End Treatment Type 2A

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 3324+75 to Sta 3335+00

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3320+00 - 3326+50	Lt	5' FB	Rock Cut	-	-	-
3326+50 - 3327+50	Lt	2' FB	EC Blnkt	110 SY	1.0'	
3334+75 - 3335+00	Lt	Spl 2' FB	CL IA	25 TONS	1.0'	.75'
3320+00 - 3321+40	Rt	2' FB	Rock Cut	-	-	-
3321+40 - 3323+00	Rt	Spl V	EC Blnkt	185 SY	1.0'	-
3330+50 - 3331+25	Rt	4' FB Surf	CL IA	40 TONS	1.5'	.75'
3331+25 - 3332+00	Rt	4' FB Surf	CL III	100 TONS	1.5'	2.0'
3334+00 - 3335+00	Rt	2' FB Surf	CL IA	35 TONS	1.0'	.75'

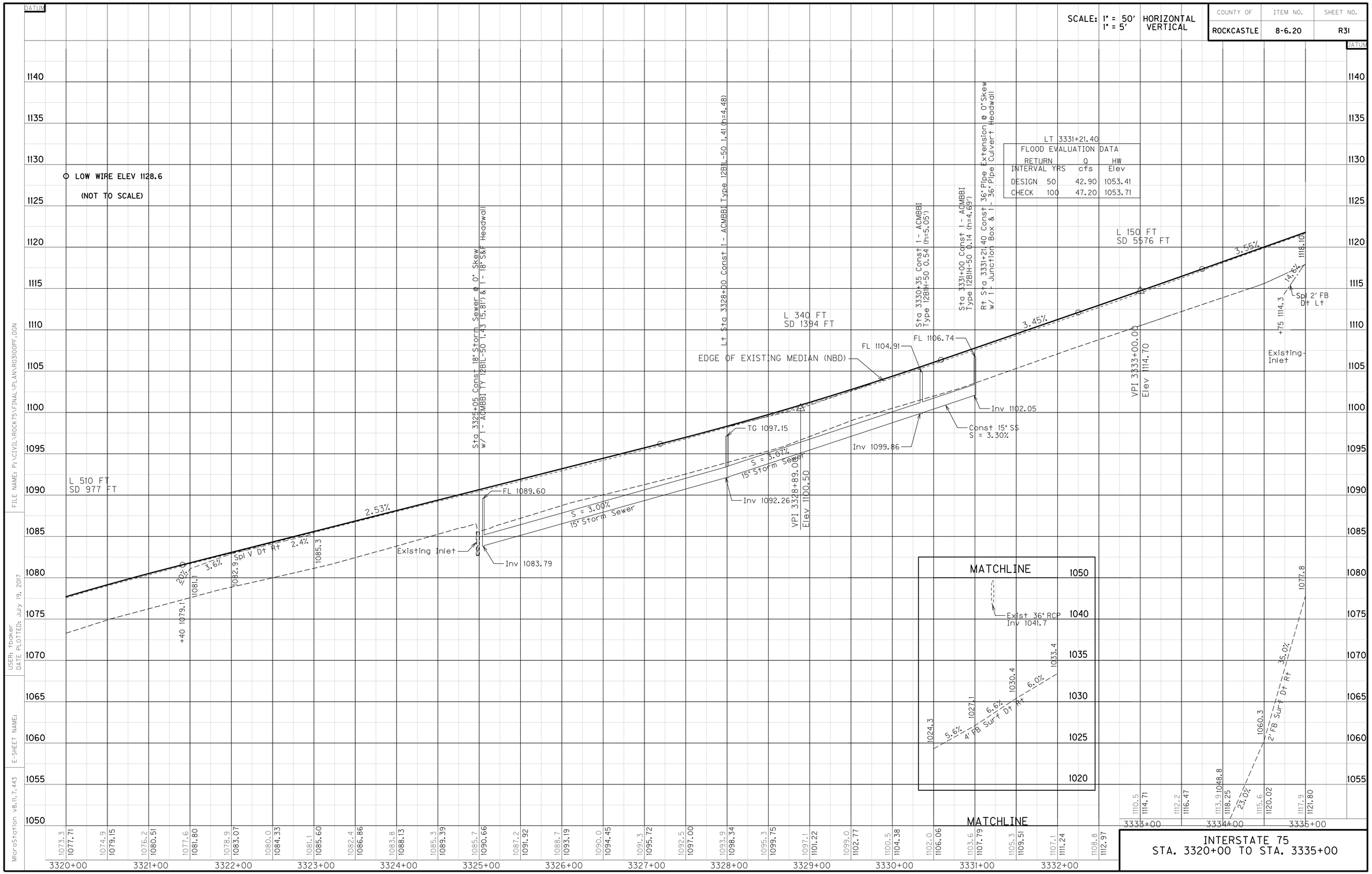
SCALE: 1"= 50'

INTERSTATE 75
STA. 3320+00 TO STA. 3335+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R03000PL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R03000PL
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R31

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



INTERSTATE 75
STA. 3320+00 TO STA. 3335+00

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R32

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3335+00 - 3335+50	Lt	Spl 2' FB	CL IA	20 TONS	1.0'	.75'
3335+50 - 3337+50	Lt	Spl V	EC Blnkt	250 SY	1.0'	
3338+00 - 3342+50	Lt	10' FB	Rock Cut			
3342+50 - 3343+00	Lt	11.25' FB	Rock Cut			
3343+00 - 3344+50	Lt	12.5' FB	Rock Cut			
3344+50 - 3345+00	Lt	11.25' FB	Rock Cut			
3345+00 - 3350+00	Lt	10' FB	Rock Cut			
3335+00 - 3336+00	Rt	2' FB Surf	CL IA	46 TONS	1.0'	0.75'
3336+00 - 3336+50	Rt	2' FB	CL II	30 TONS	1.0'	1.25'
3336+50 - 3340+00	Rt	2' FB	Rock Cut			
3340+00 - 3342+00	Rt	Spl V	EC Blnkt	225 SY	1.0'	
3343+80 - 3344+50	Rt	Spl 2' FB	CL IA	30 TONS	1.0'	0.75'
3344+50 - 3345+00	Rt	2' FB	CL II	35 TONS	1.0'	1.25'
3345+00 - 3350+00	Rt	2' FB	Rock Cut			

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3335+00 to Sta 3337+50 (250.5 LF)
& 1 End Treatment Type 2A
(W=27', Flare=405')(430 CY Emb)

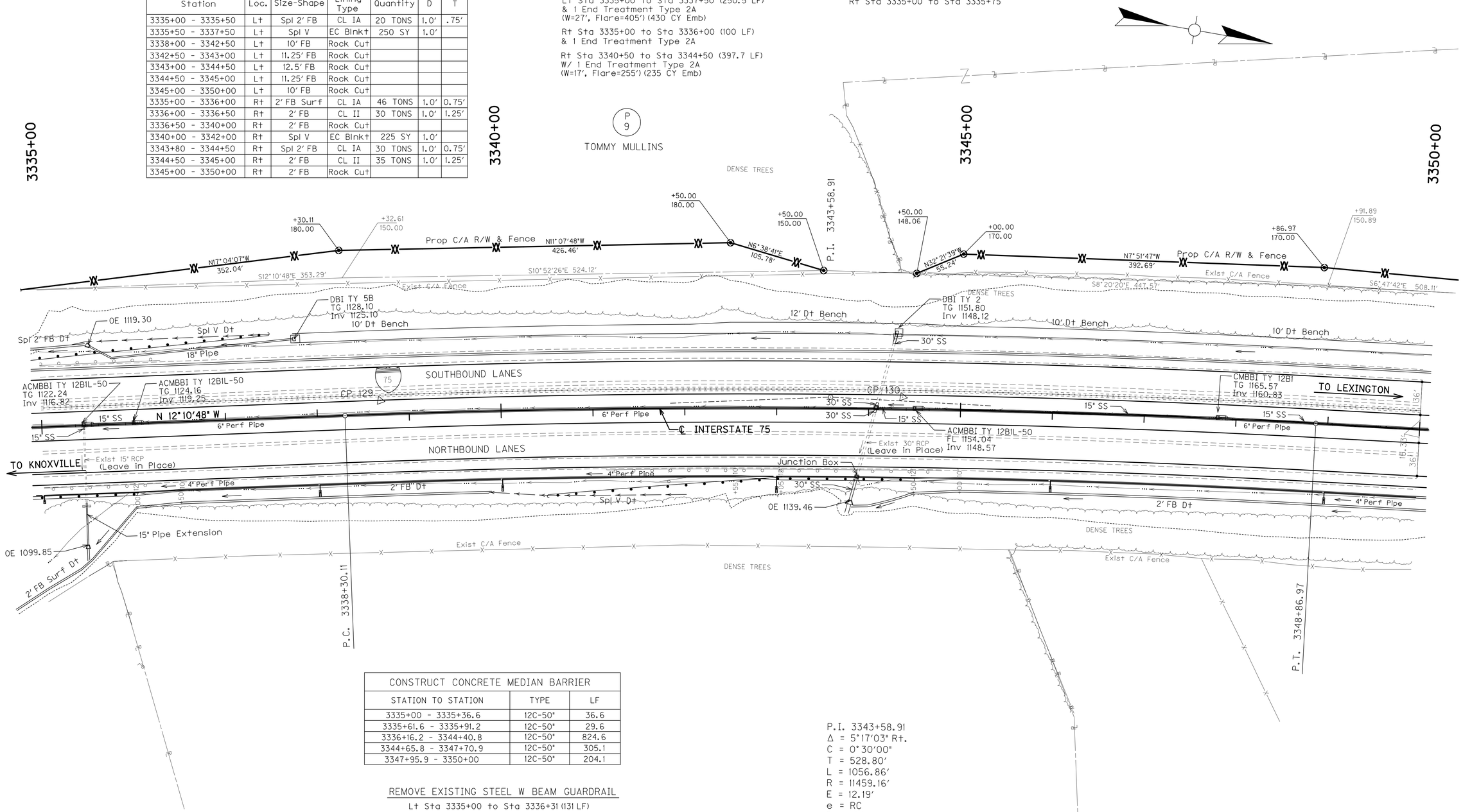
Rt Sta 3335+00 to Sta 3336+00 (100 LF)
& 1 End Treatment Type 2A

Rt Sta 3340+50 to Sta 3344+50 (397.7 LF)
W/ 1 End Treatment Type 2A
(W=17', Flare=255')(235 CY Emb)

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 3335+00 to Sta 3335+75

P
9
TOMMY MULLINS



CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3335+00 - 3335+36.6	12C-50"	36.6
3335+61.6 - 3335+91.2	12C-50"	29.6
3336+16.2 - 3344+40.8	12C-50"	824.6
3344+65.8 - 3347+70.9	12C-50"	305.1
3347+95.9 - 3350+00	12C-50"	204.1

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3335+00 to Sta 3336+31 (131 LF)
Rt Sta 3335+00 to Sta 3336+28 (128 LF)
Rt Sta 3341+14 to Sta 3344+81 (367 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3335+00 to Sta 3350+00 (1502 LF)

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Lt Sta 3335+00 to Sta 3343+50 (884 LF)
Lt Sta 3334+50 to Sta 3350+00 (561 LF)

P.I. 3343+58.91
Δ = 5°17'03" Rt.
C = 0°30'00"
T = 528.80'
L = 1056.86'
R = 11459.16'
E = 12.19'
e = RC
Runoff = 200'
Runout = 200'

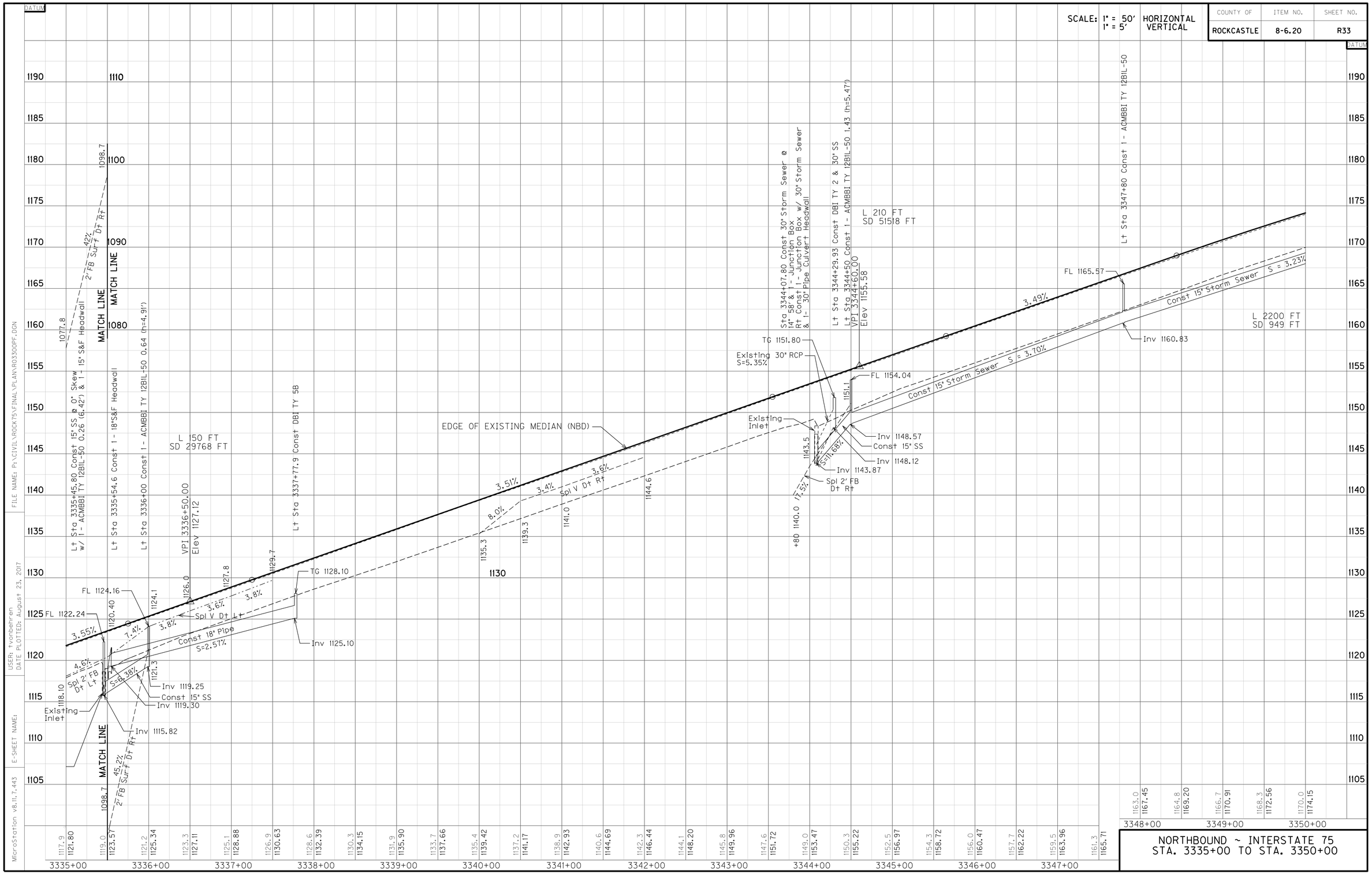
SCALE: 1"= 50'

INTERSTATE 75
STA. 3335+00 TO STA. 3350+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R03200PL.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R03200PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

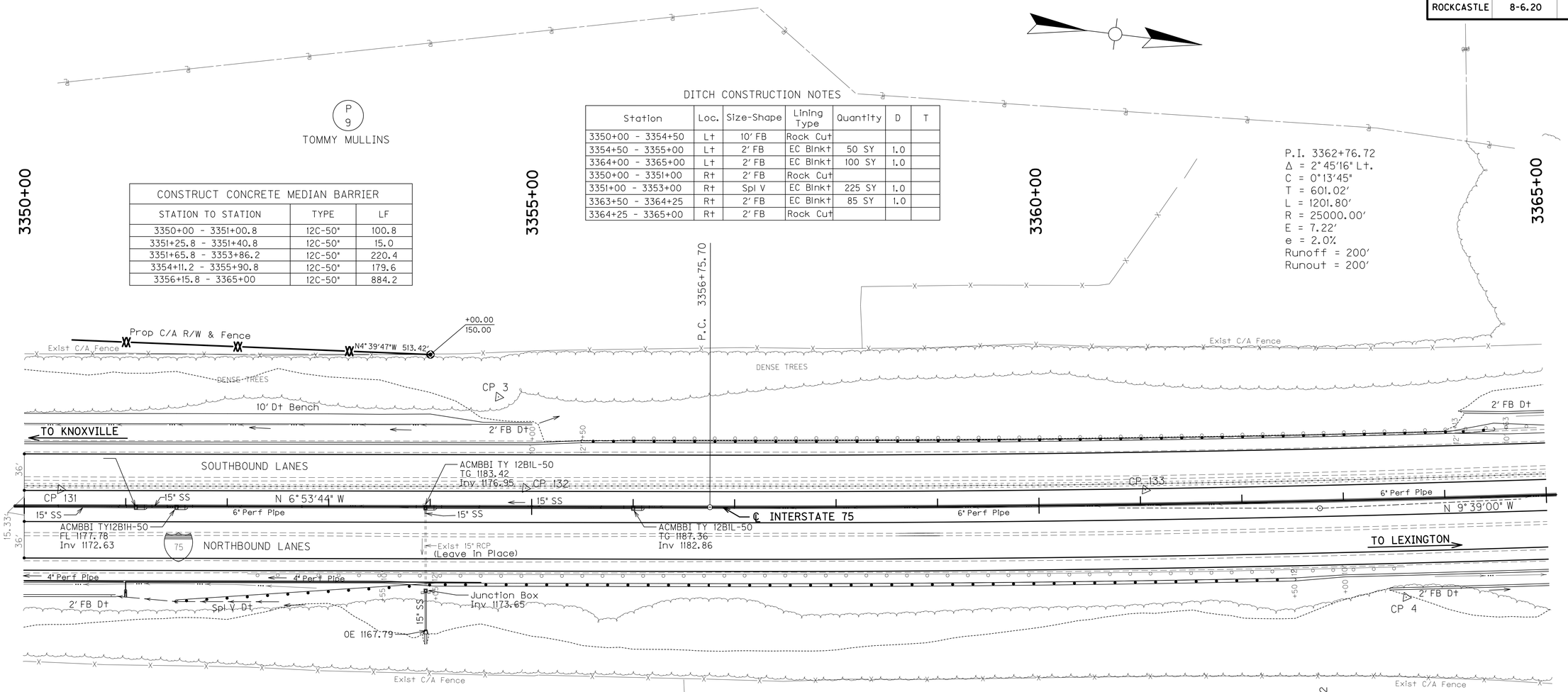
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R33



NORTHBOUND ~ INTERSTATE 75
STA. 3335+00 TO STA. 3350+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R03300PF.DGN
USER: tvanbehren
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R34



DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3350+00 - 3354+50	Lt	10' FB	Rock Cut			
3354+50 - 3355+00	Lt	2' FB	EC Blnkt	50 SY	1.0	
3364+00 - 3365+00	Lt	2' FB	EC Blnkt	100 SY	1.0	
3350+00 - 3351+00	Rt	2' FB	Rock Cut			
3351+00 - 3353+00	Rt	Spl V	EC Blnkt	225 SY	1.0	
3363+50 - 3364+25	Rt	2' FB	EC Blnkt	85 SY	1.0	
3364+25 - 3365+00	Rt	2' FB	Rock Cut			

CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3350+00 - 3351+00.8	12C-50"	100.8
3351+25.8 - 3351+40.8	12C-50"	15.0
3351+65.8 - 3353+86.2	12C-50"	220.4
3354+11.2 - 3355+90.8	12C-50"	179.6
3356+15.8 - 3365+00	12C-50"	884.2

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Lt Sta 3350+00 to Sta 3354+00 (400')

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3355+50 to Sta 3364+50 (861.2 LF)
& 1 End Treatment Type 2A & 1 End Treatment
Type 4A W/ 1 Object Marker Ty 3 (55 CY Emb)

Rt Sta 3351+50 to Sta 3362+50 (1100 LF)
& 1 End Treatment Type 2A
(W=23', Flare=345') (325 CY Emb)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 3352+20 to Sta 3363+59 (1141 LF)
Lt Sta 3355+87 to Sta 3364+92 (904 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3350+00 to Sta 3365+00 (1499 LF)

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 3353+25 to Sta 3362+75

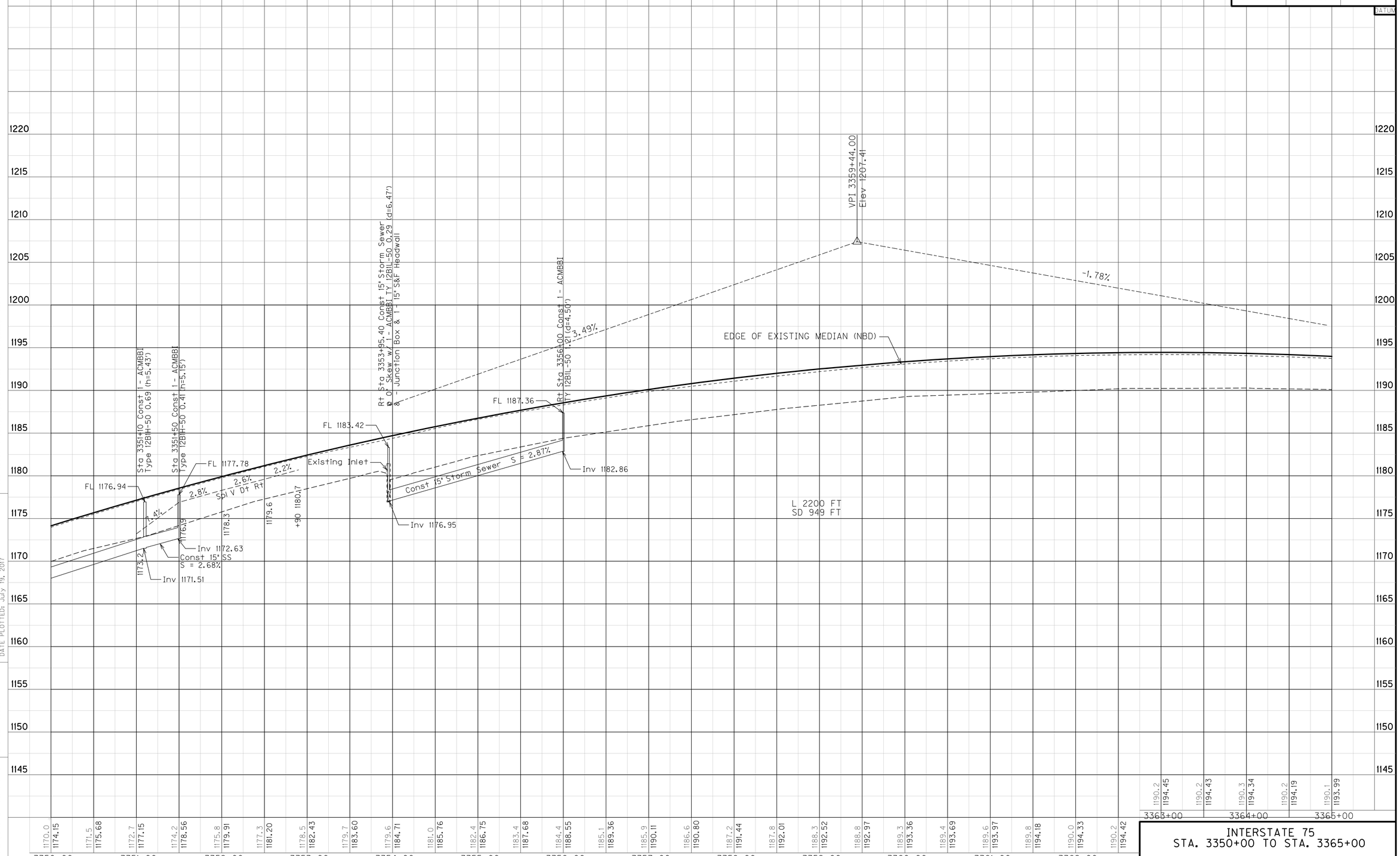
SCALE: 1"= 50'

INTERSTATE 75
STA. 3350+00 TO STA. 3365+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R03400PL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R03400PL
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R35



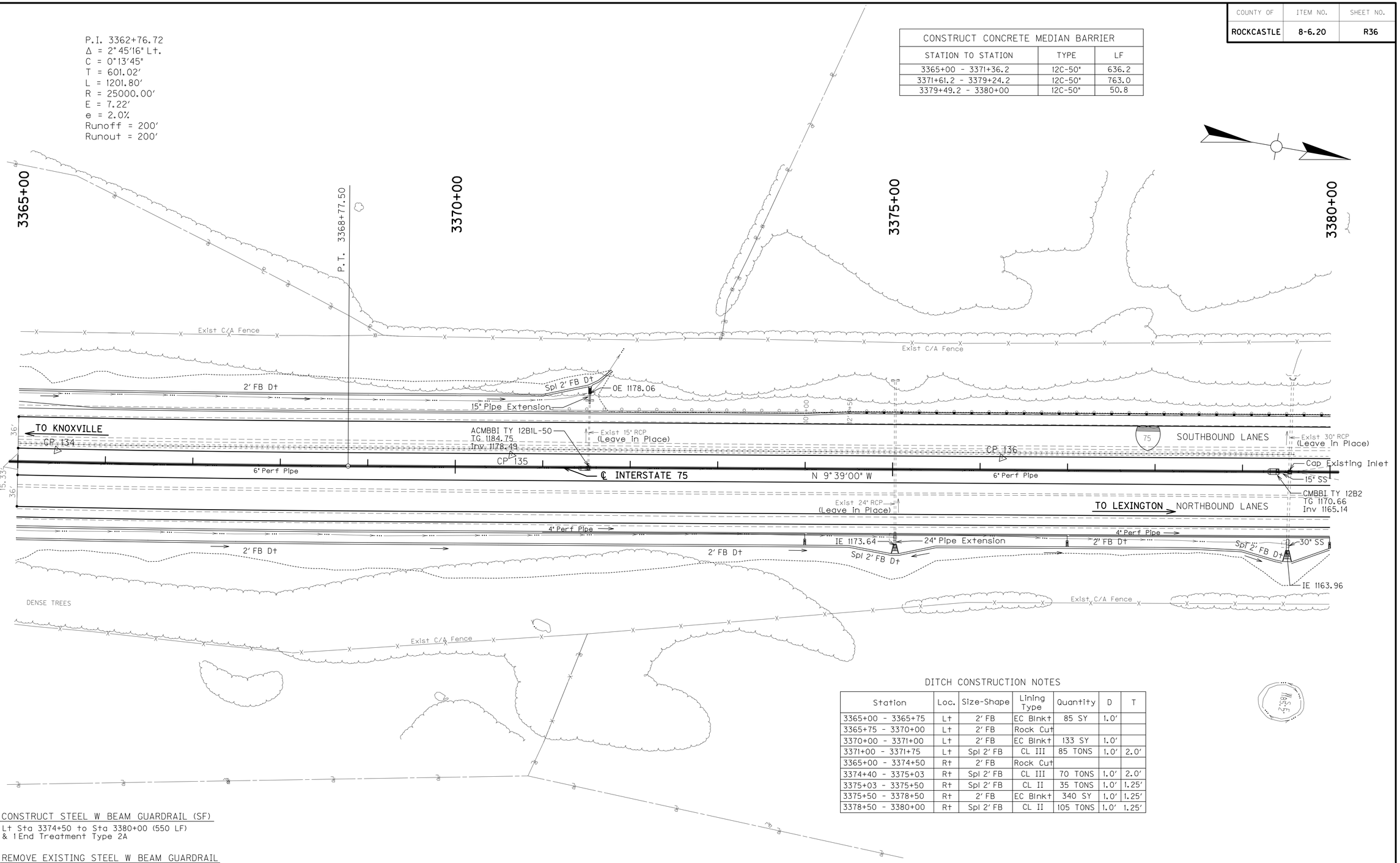
INTERSTATE 75
STA. 3350+00 TO STA. 3365+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R03500PF.DGN
USER: tboker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R36

P.I. 3362+76.72
Δ = 2°45'16" Lt.
C = 0°13'45"
T = 601.02'
L = 1201.80'
R = 25000.00'
E = 7.22'
e = 2.0%
Runoff = 200'
Runout = 200'

CONSTRUCT CONCRETE MEDIAN BARRIER		
STATION TO STATION	TYPE	LF
3365+00 - 3371+36.2	12C-50*	636.2
3371+61.2 - 3379+24.2	12C-50*	763.0
3379+49.2 - 3380+00	12C-50*	50.8



DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3365+00 - 3365+75	Lt	2' FB	EC Blnkt	85 SY	1.0'	
3365+75 - 3370+00	Lt	2' FB	Rock Cut			
3370+00 - 3371+00	Lt	2' FB	EC Blnkt	133 SY	1.0'	
3371+00 - 3371+75	Lt	Spl 2' FB	CL III	85 TONS	1.0'	2.0'
3365+00 - 3374+50	Rt	2' FB	Rock Cut			
3374+40 - 3375+03	Rt	Spl 2' FB	CL III	70 TONS	1.0'	2.0'
3375+03 - 3375+50	Rt	Spl 2' FB	CL II	35 TONS	1.0'	1.25'
3375+50 - 3378+50	Rt	2' FB	EC Blnkt	340 SY	1.0'	1.25'
3378+50 - 3380+00	Rt	Spl 2' FB	CL II	105 TONS	1.0'	1.25'

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3374+50 to Sta 3380+00 (550 LF)
& 1 End Treatment Type 2A

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3371+08 to Sta 3380+00 (892 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3365+00 to Sta 3380+00 (1497 LF)

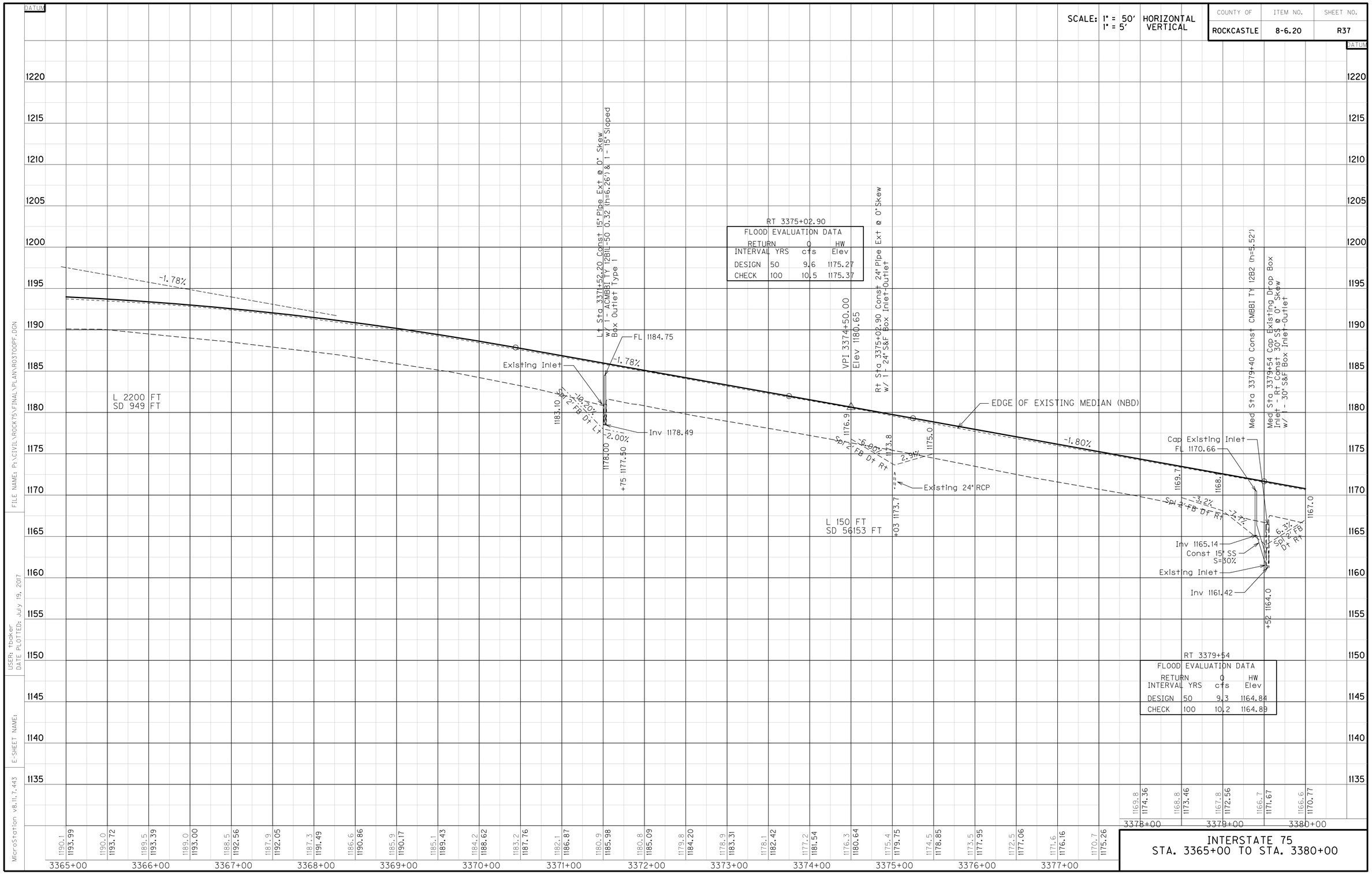
SCALE: 1"= 50'

INTERSTATE 75
STA. 3365+00 TO STA. 3380+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R03600PL.DGN
USER: tvanbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R03600PL
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R37

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



INTERSTATE 75
STA. 3365+00 TO STA. 3380+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R03700PF.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R38

REVISED PLAN DATE: OCT. 19, 2009

DITCH CONSTRUCTION NOTES

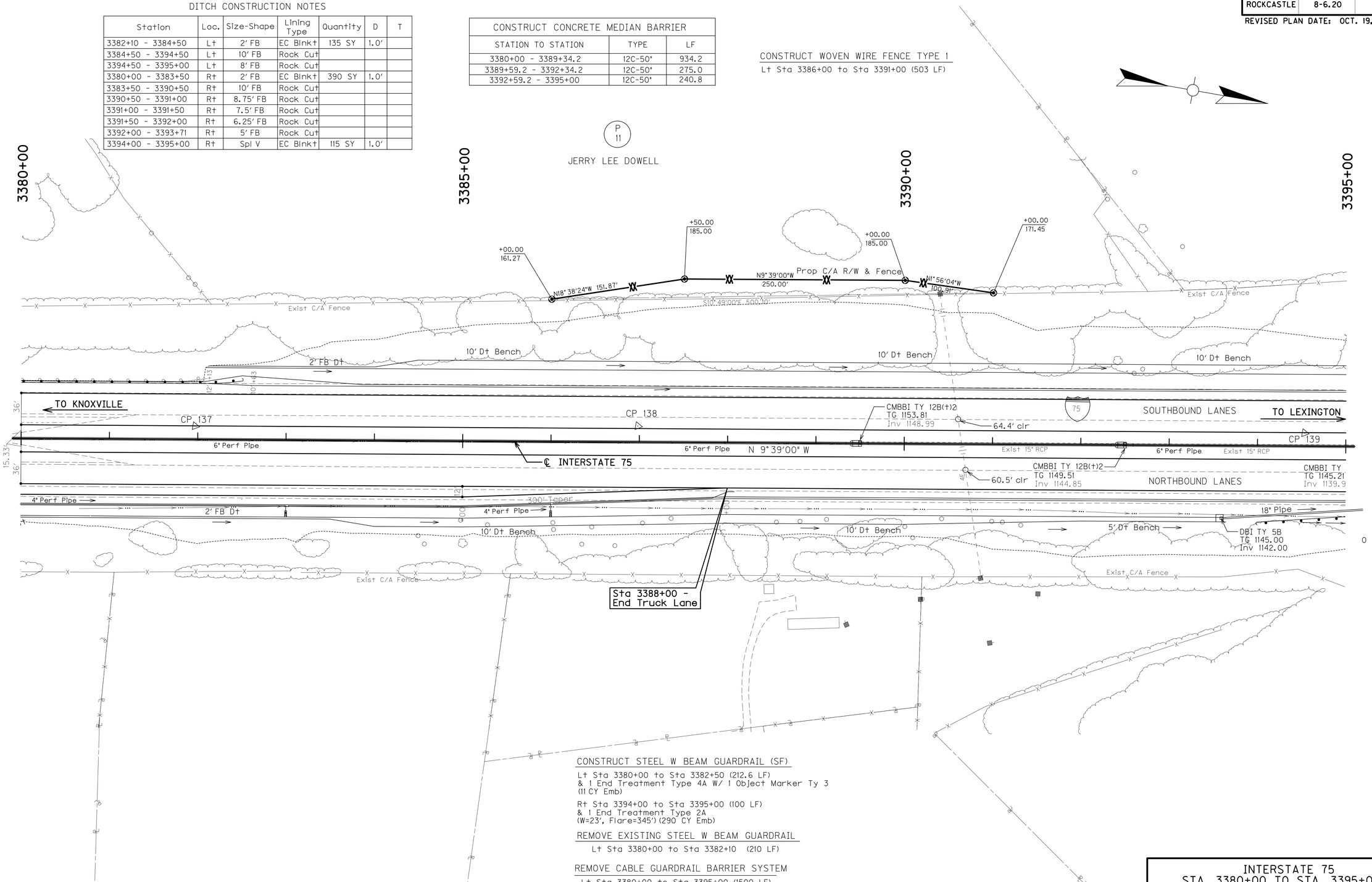
Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3382+10 - 3384+50	Lt	2' FB	EC Blnkt	135 SY	1.0'	
3384+50 - 3394+50	Lt	10' FB	Rock Cut			
3394+50 - 3395+00	Lt	8' FB	Rock Cut			
3380+00 - 3383+50	Rt	2' FB	EC Blnkt	390 SY	1.0'	
3383+50 - 3390+50	Rt	10' FB	Rock Cut			
3390+50 - 3391+00	Rt	8.75' FB	Rock Cut			
3391+00 - 3391+50	Rt	7.5' FB	Rock Cut			
3391+50 - 3392+00	Rt	6.25' FB	Rock Cut			
3392+00 - 3393+71	Rt	5' FB	Rock Cut			
3394+00 - 3395+00	Rt	Spl V	EC Blnkt	115 SY	1.0'	

CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3380+00 - 3389+34.2	12C-50*	934.2
3389+59.2 - 3392+34.2	12C-50*	275.0
3392+59.2 - 3395+00	12C-50*	240.8

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Lt Sta 3386+00 to Sta 3391+00 (503 LF)



CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 3380+00 to Sta 3382+50 (212.6 LF)
& 1 End Treatment Type 4A W/ 1 Object Marker Ty 3
(11 CY Emb)

Rt Sta 3394+00 to Sta 3395+00 (100 LF)
& 1 End Treatment Type 2A
(W=23', Flare=345') (290 CY Emb)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 3380+00 to Sta 3382+10 (210 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

Lt Sta 3380+00 to Sta 3395+00 (1500 LF)

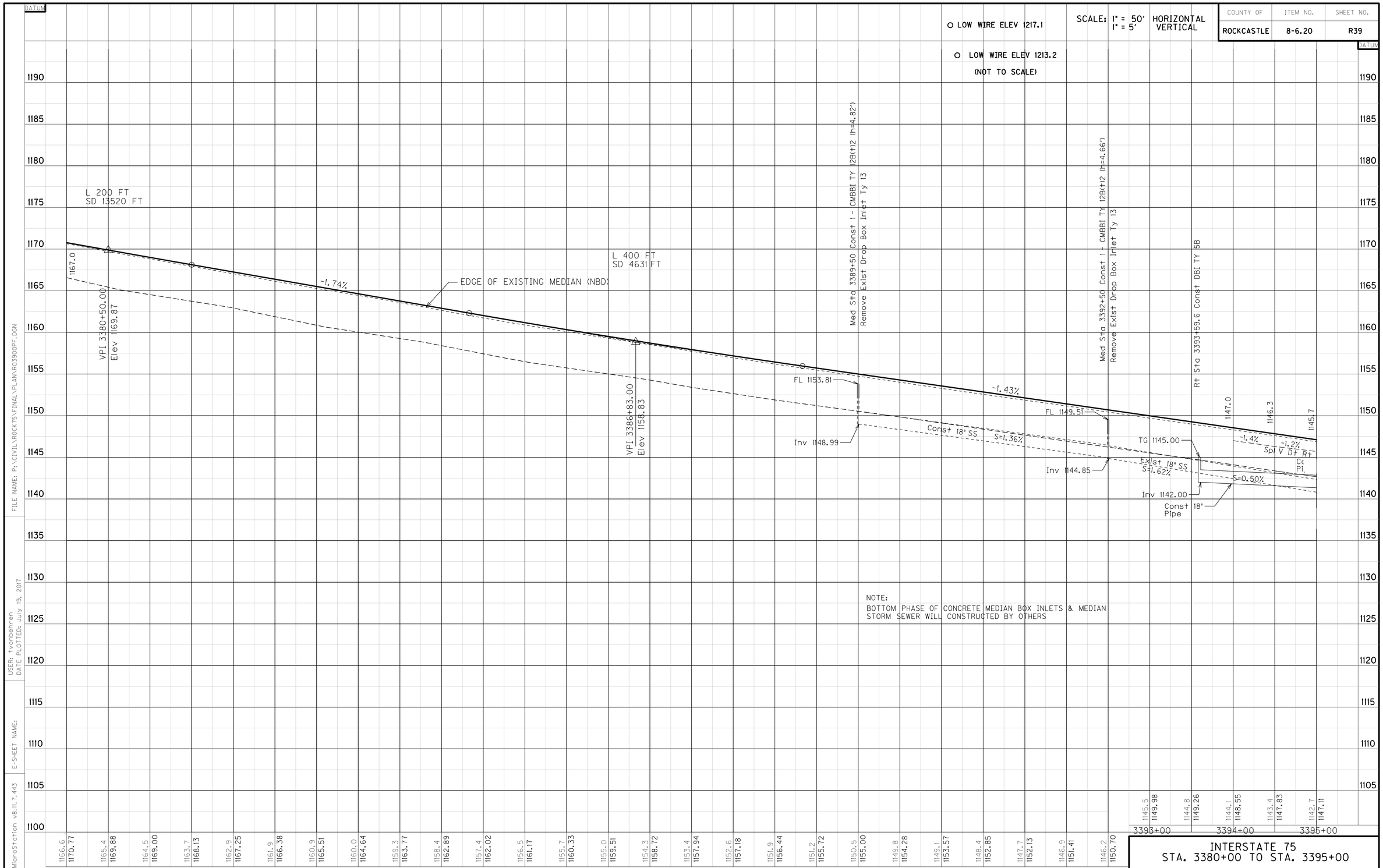
SCALE: 1"= 50'

INTERSTATE 75
STA. 3380+00 TO STA. 3395+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R03800PL.DGN
USER: tbaker
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R39

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



INTERSTATE 75
STA. 3380+00 TO STA. 3395+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R03900PF.DGN
USER: tvanbehren
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

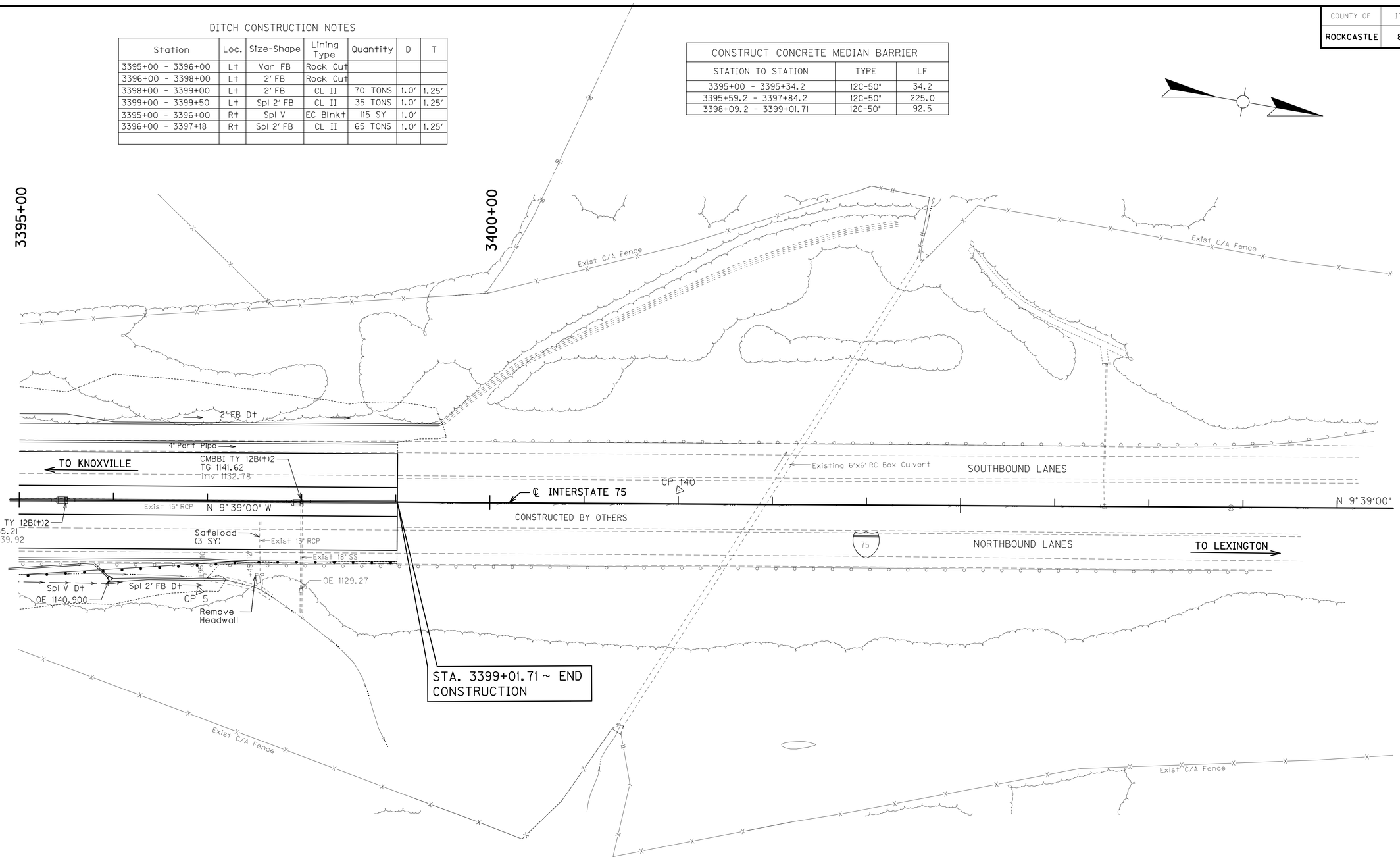
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R40

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
3395+00 - 3396+00	Lt	Var FB	Rock Cut			
3396+00 - 3398+00	Lt	2' FB	Rock Cut			
3398+00 - 3399+00	Lt	2' FB	CL II	70 TONS	1.0'	1.25'
3399+00 - 3399+50	Lt	Spl 2' FB	CL II	35 TONS	1.0'	1.25'
3395+00 - 3396+00	Rt	Spl V	EC Blnkt	115 SY	1.0'	
3396+00 - 3397+18	Rt	Spl 2' FB	CL II	65 TONS	1.0'	1.25'

CONSTRUCT CONCRETE MEDIAN BARRIER

STATION TO STATION	TYPE	LF
3395+00 - 3395+34.2	12C-50"	34.2
3395+59.2 - 3397+84.2	12C-50"	225.0
3398+09.2 - 3399+01.71	12C-50"	92.5



CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 3395+00 to Sta 3399+02 (402 LF)
(Connect to Existing Guardrail)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 3395+00 to Sta 3399+02 (402 LF)

REMOVE CABLE GUARDRAIL BARRIER SYSTEM

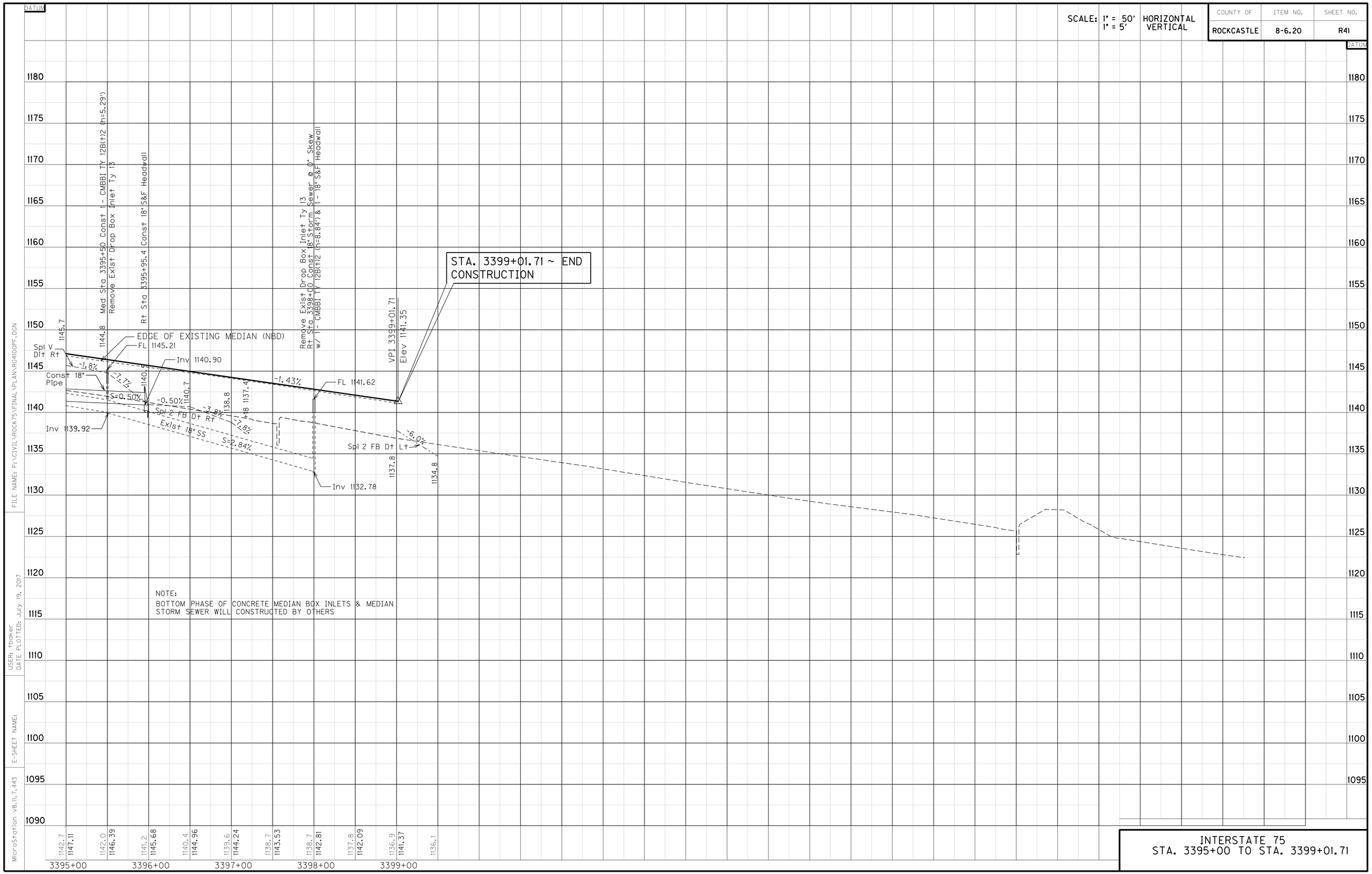
Lt Sta 3395+00 to Sta 3399+01.71 (402 LF)

SCALE: 1"= 50'

INTERSTATE 75
STA. 3395+00 TO STA. 3399+01.71

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04000PL.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R41

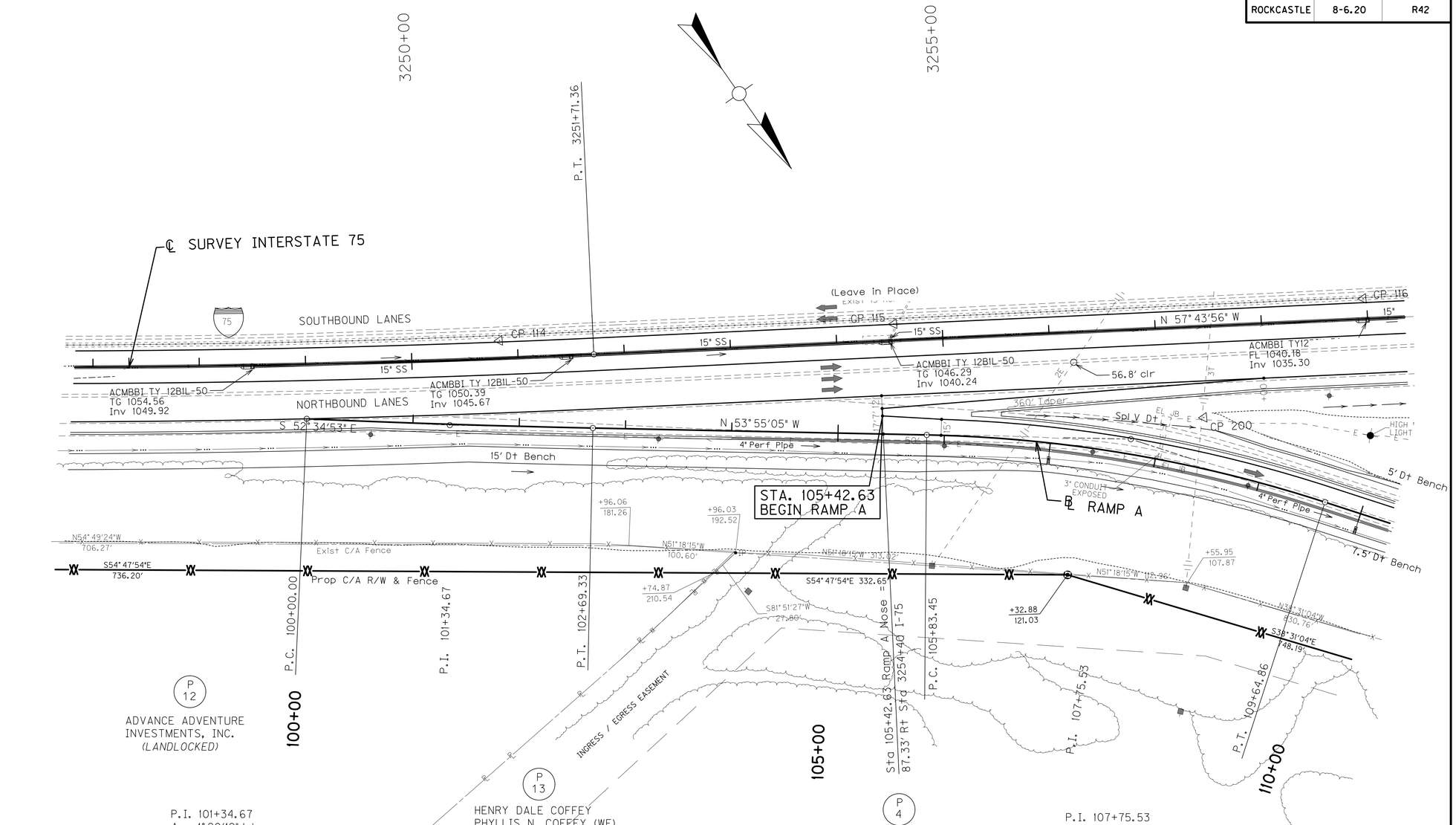


NOTE:
BOTTOM PHASE OF CONCRETE MEDIAN BOX INLETS & MEDIAN STORM SEWER WILL CONSTRUCTED BY OTHERS

INTERSTATE 75
STA. 3395+00 TO STA. 3399+01.71

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0410OPF.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R42



P.I. 101+34.67
Δ = 1°20'12" Lt.
C = 0°29'47"
T = 134.67'
L = 269.33'
R = 11545.00'
E = .79'
e = 2.0%

P.I. 107+75.53
Δ = 16°48'37" Rt.
C = 4°24'27"
T = 192.09'
L = 381.41'
R = 1300.00'
E = 14.11'
e = 5.8%
Runoff =] See
Runout =] X-Sects

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
108+50 - 110+00	Lt	Spl 2' FB	Cl II	85 Tons	1.0'	1.25'
105+50 - 106+00	Rt	15' FB	Rock Cut			
106+00 - 106+50	Rt	12.5' FB	Rock Cut			
106+50 - 107+00	Rt	10' FB	Rock Cut			
107+00 - 110+00	Rt	7.5' FB	Rock Cut			

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Rt Sta 105+85.3 - 110+00.00 (245 LF)

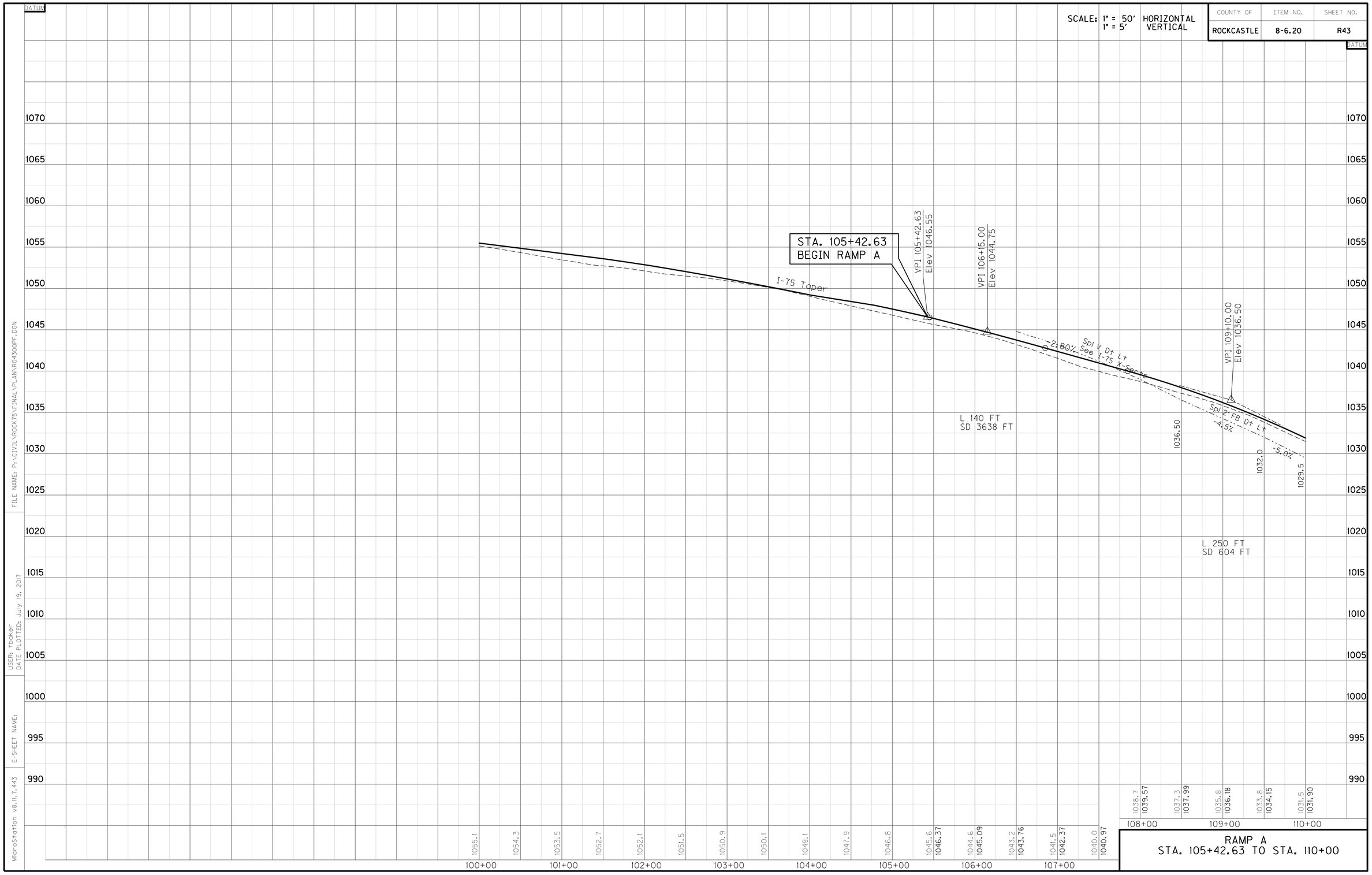
SCALE: 1"= 50'

RAMP A
STA. 105+42.63 TO STA. 110+00

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: tbaker DATE PLOTTED: August 23, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04200PL.DGN

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R43



RAMP A
STA. 105+42.63 TO STA. 110+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04300PF.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R44

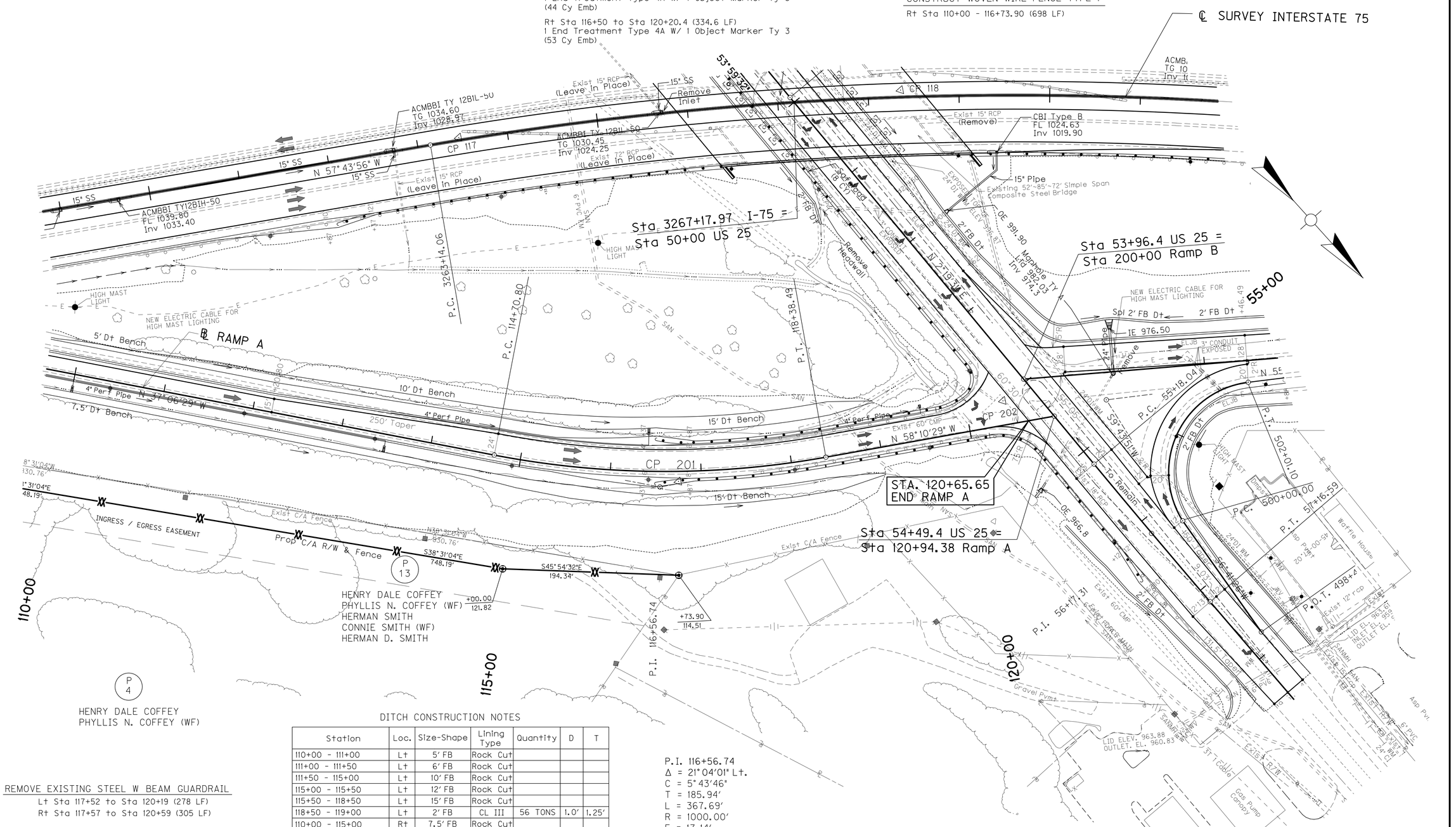
CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Lt Sta 116+50 to Sta 119+67.1 (274.1 LF)
1 End Treatment Type 4A W/ 1 Object Marker Ty 3
(44 Cy Emb)

Rt Sta 116+50 to Sta 120+20.4 (334.6 LF)
1 End Treatment Type 4A W/ 1 Object Marker Ty 3
(53 Cy Emb)

CONSTRUCT WOVEN WIRE FENCE TYPE 1

Rt Sta 110+00 - 116+73.90 (698 LF)



DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
110+00 - 111+00	Lt	5' FB	Rock Cut			
111+00 - 111+50	Lt	6' FB	Rock Cut			
111+50 - 115+00	Lt	10' FB	Rock Cut			
115+00 - 115+50	Lt	12' FB	Rock Cut			
115+50 - 118+50	Lt	15' FB	Rock Cut			
118+50 - 119+00	Lt	2' FB	CL III	56 TONS	1.0'	1.25'
110+00 - 115+00	Rt	7.5' FB	Rock Cut			
115+00 - 115+50	Rt	11.25' FB	Rock Cut			
115+50 - 116+00	Rt	15' FB	Rock Cut			
116+00 - 116+50	Rt	13.5' FB	Rock Cut			
116+50 - 117+00	Rt	12' FB	Rock Cut			
117+00 - 118+50	Rt	15' FB	Rock Cut			
118+50 - 119+00	Rt	Var FB	CL IA	35 TONS	1.0'	0.75'

P.I. 116+56.74
Δ = 21°04'01" Lt.
C = 5°43'46"
T = 185.94'
L = 367.69'
R = 1000.00'
E = 17.14'
e = 6.8%
Runoff = } See
Runout = } X-Sects

REMOVE EXISTING STEEL W BEAM GUARDRAIL

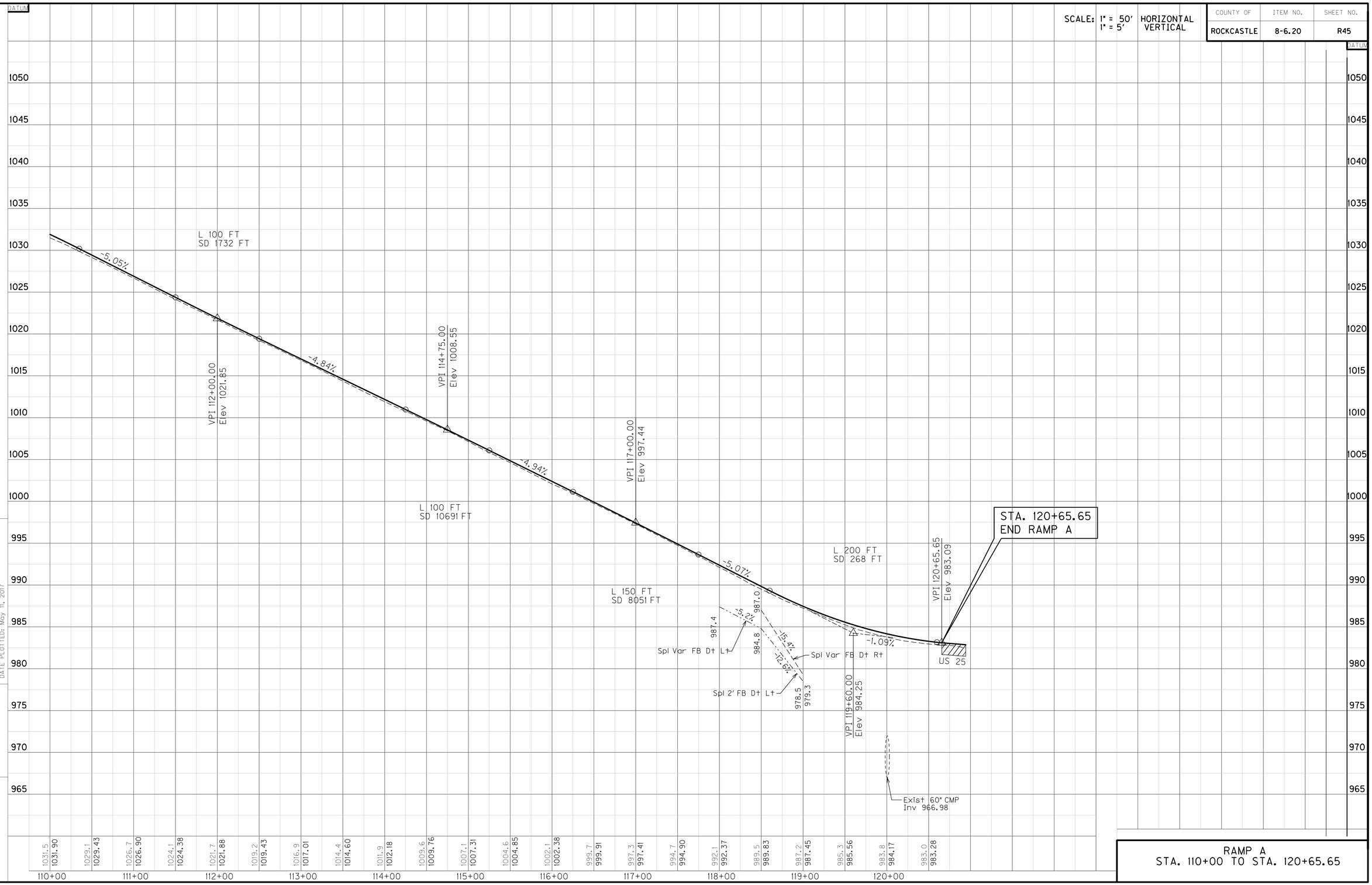
Lt Sta 117+52 to Sta 120+19 (278 LF)
Rt Sta 117+57 to Sta 120+59 (305 LF)

SCALE: 1"= 50'

RAMP A
STA. 110+00 TO STA. 120+65.65

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04400PL.DGN
USER: bteague
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

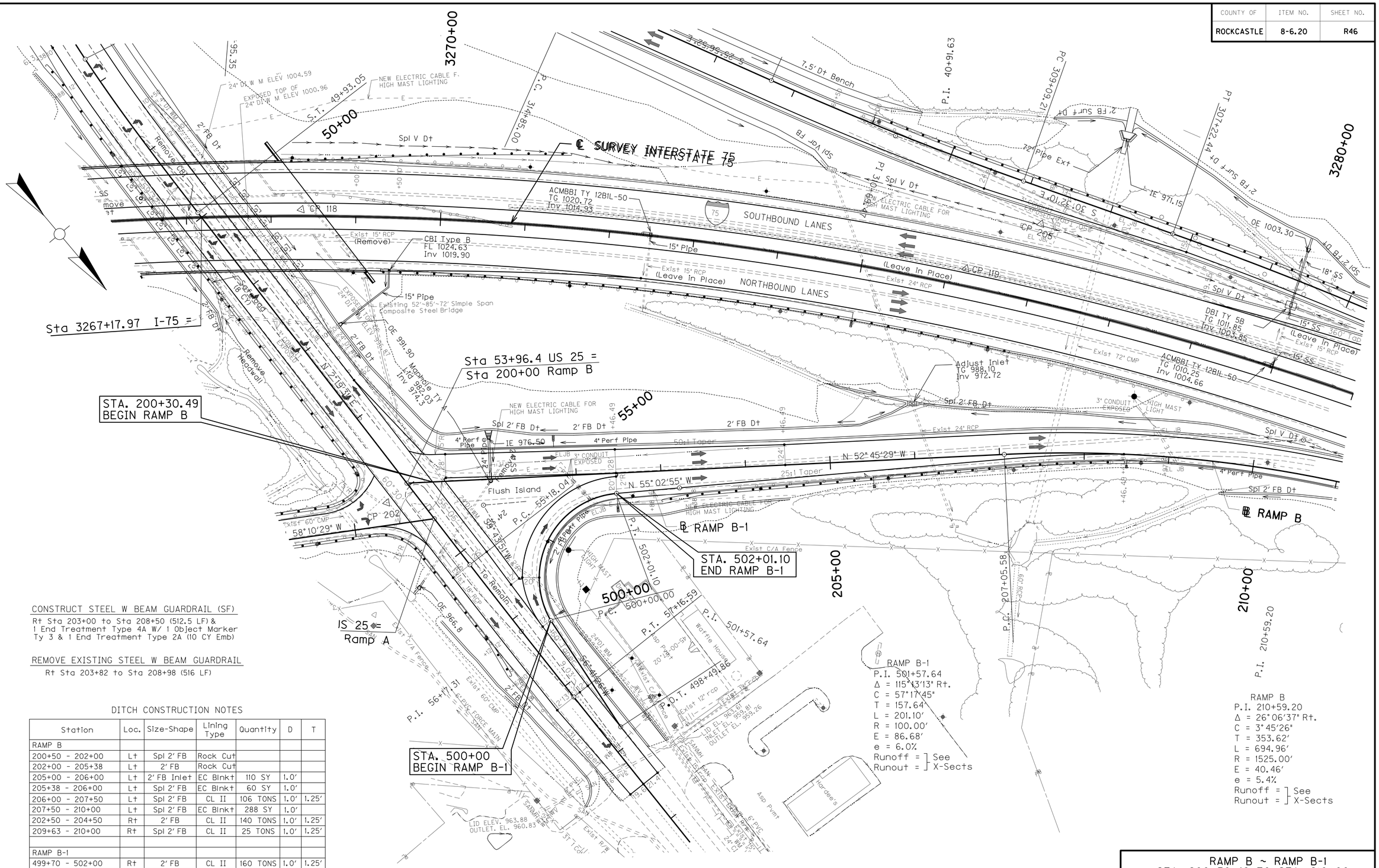
SCALE:			COUNTY OF	ITEM NO.	SHEET NO.
1" = 50'	HORIZONTAL		ROCKCASTLE	8-6.20	R45
1" = 5'	VERTICAL				



RAMP A
STA. 110+00 TO STA. 120+65.65

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04500PF.DGN
USER: TBaker
DATE PLOTTED: May 11, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R46



CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 203+00 to Sta 208+50 (512.5 LF) &
1 End Treatment Type 4A W/ 1 Object Marker
Ty 3 & 1 End Treatment Type 2A (10 CY Emb)

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 203+82 to Sta 208+98 (516 LF)

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
RAMP B						
200+50 - 202+00	Lt	Spl 2' FB	Rock Cut			
202+00 - 205+38	Lt	2' FB	Rock Cut			
205+00 - 206+00	Lt	2' FB Inlet	EC Blnkt	110 SY	1.0'	
205+38 - 206+00	Lt	Spl 2' FB	EC Blnkt	60 SY	1.0'	
206+00 - 207+50	Lt	Spl 2' FB	CL II	106 TONS	1.0'	1.25'
207+50 - 210+00	Lt	Spl 2' FB	EC Blnkt	288 SY	1.0'	
202+50 - 204+50	Rt	2' FB	CL II	140 TONS	1.0'	1.25'
209+63 - 210+00	Rt	Spl 2' FB	CL II	25 TONS	1.0'	1.25'
RAMP B-1						
499+70 - 502+00	Rt	2' FB	CL II	160 TONS	1.0'	1.25'

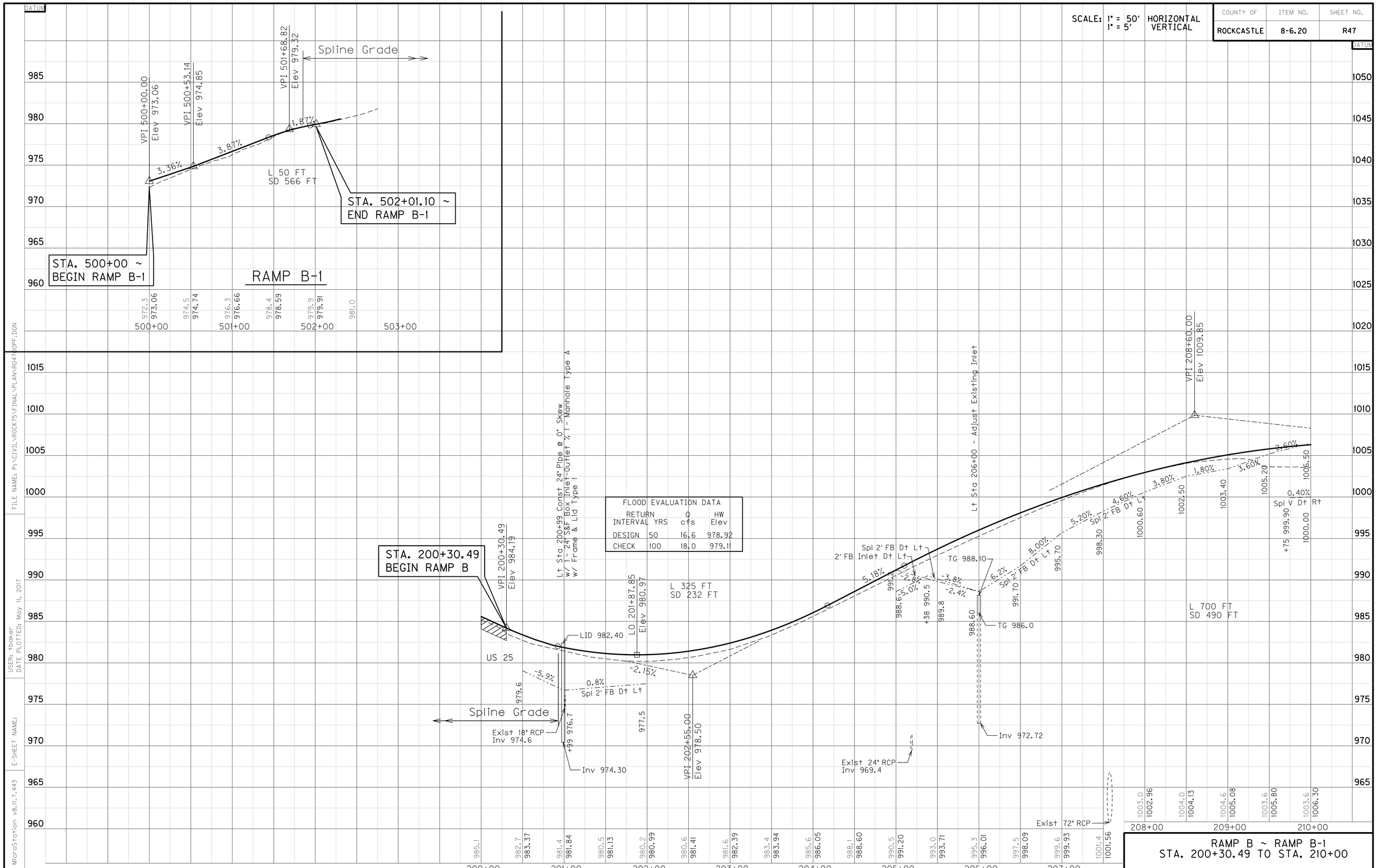
SCALE: 1"= 50'

RAMP B ~ RAMP B-1
STA. 200+30.49 TO STA. 210+00

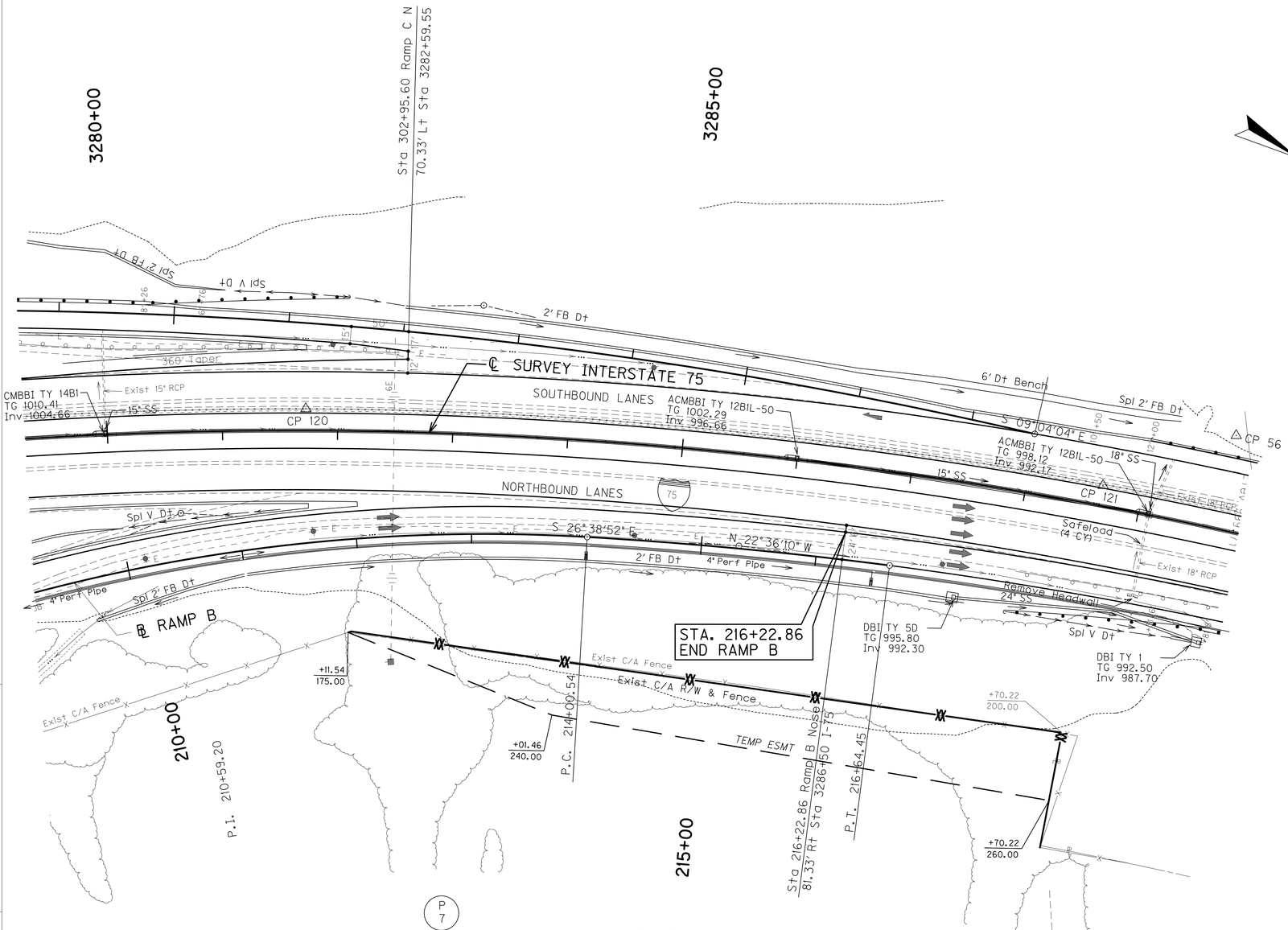
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04600PL.DGN
USER: tbaker
DATE PLOTTED: May 11, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R47



COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R48



P.I. 210+59.20
Δ = 26°06'37" Rt.
C = 3°45'26"
T = 353.62'
L = 694.96'
R = 1525.00'
E = 40.46'
e = 5.4%
Runoff =] See
Runout =] X-Sects

P.I. 215+32.55
Δ = 4°02'42" Rt.
C = 1°31'58"
T = 132.01'
L = 263.91'
R = 3738.10'
E = 2.33'
e = 5.1%
Runoff =] See
Runout =] X-Sects

DITCH CONSTRUCTION NOTES

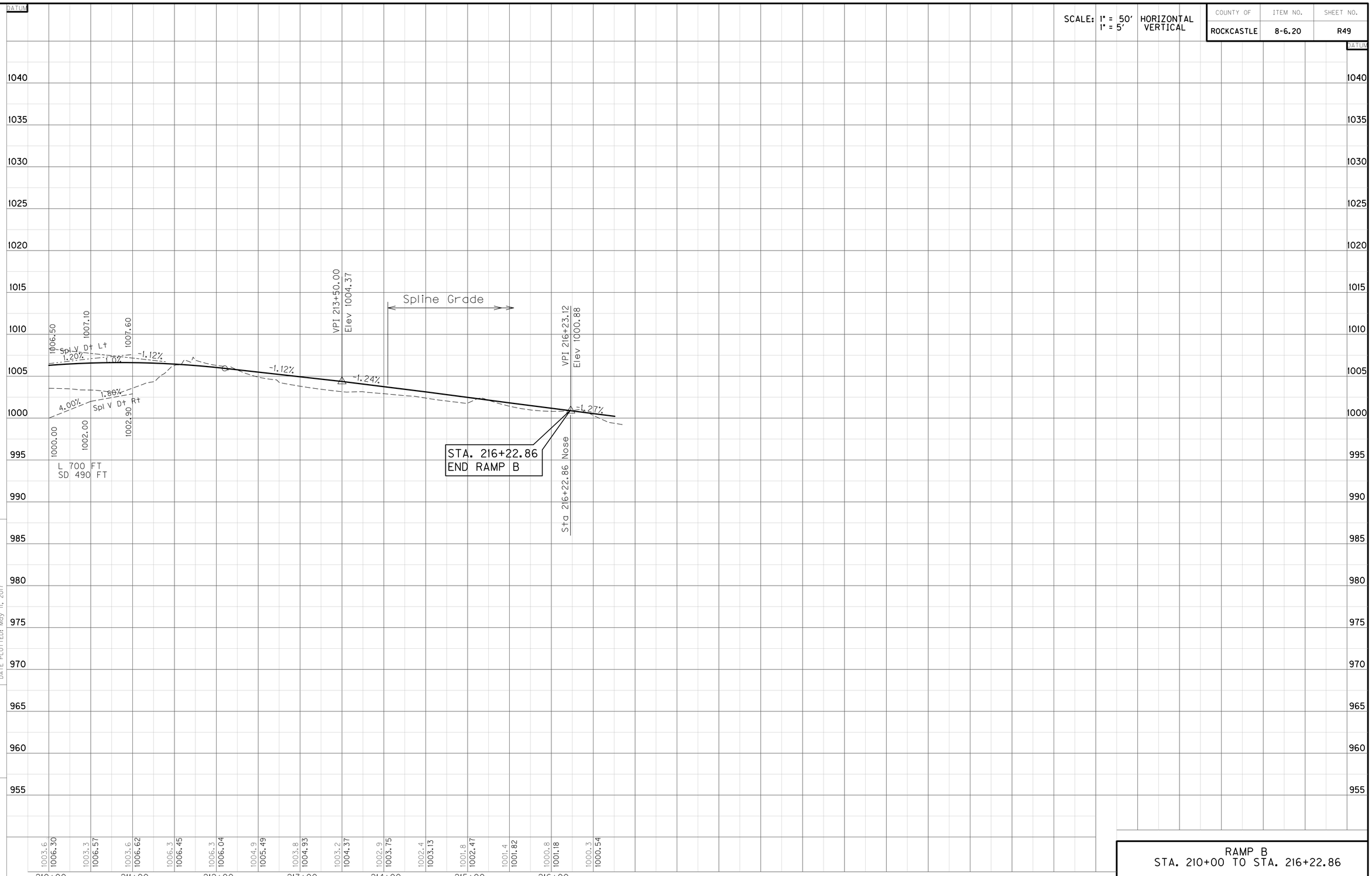
Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
210+00 - 211+00	Lt	Spl V	EC Blnkt	115 SY	1.0'	
210+00 - 211+00	Rt	Spl 2' FB	Cl II	70 SY	1.0'	1.25'
211+00 - 216+00	Rt	2' FB	Rock Cut			

SCALE: 1"= 50'

RAMP B
STA. 210+00 TO STA. 216+22.86

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04800PL.DGN
USER: bteague
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

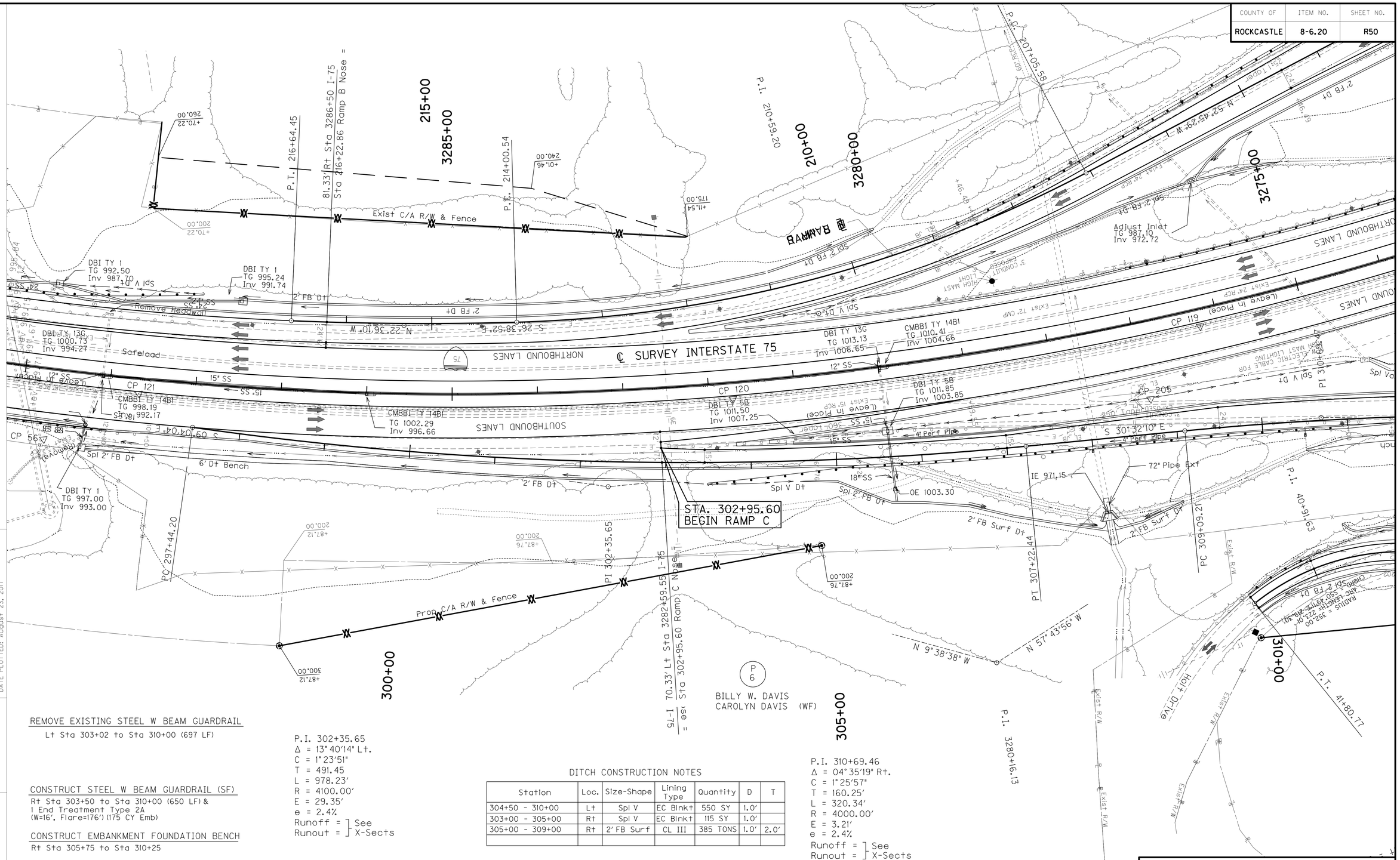
SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R49



RAMP B
STA. 210+00 TO STA. 216+22.86

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R04900PF.DGN
USER: TBaker
DATE PLOTTED: May 11, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R50



REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 303+02 to Sta 310+00 (697 LF)

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 303+50 to Sta 310+00 (650 LF) &
1 End Treatment Type 2A
(W=16', Flare=176') (175 CY Emb)

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 305+75 to Sta 310+25

P.I. 302+35.65
Δ = 13°40'14" Lt.
C = 1°23'51"
T = 491.45
L = 978.23'
R = 4100.00'
E = 29.35'
e = 2.4%
Runoff =] See
Runout =] X-Sects

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
304+50 - 310+00	Lt	Spl V	EC Blnkt	550 SY	1.0'	
303+00 - 305+00	Rt	Spl V	EC Blnkt	115 SY	1.0'	
305+00 - 309+00	Rt	2' FB Surf	CL III	385 TONS	1.0'	2.0'

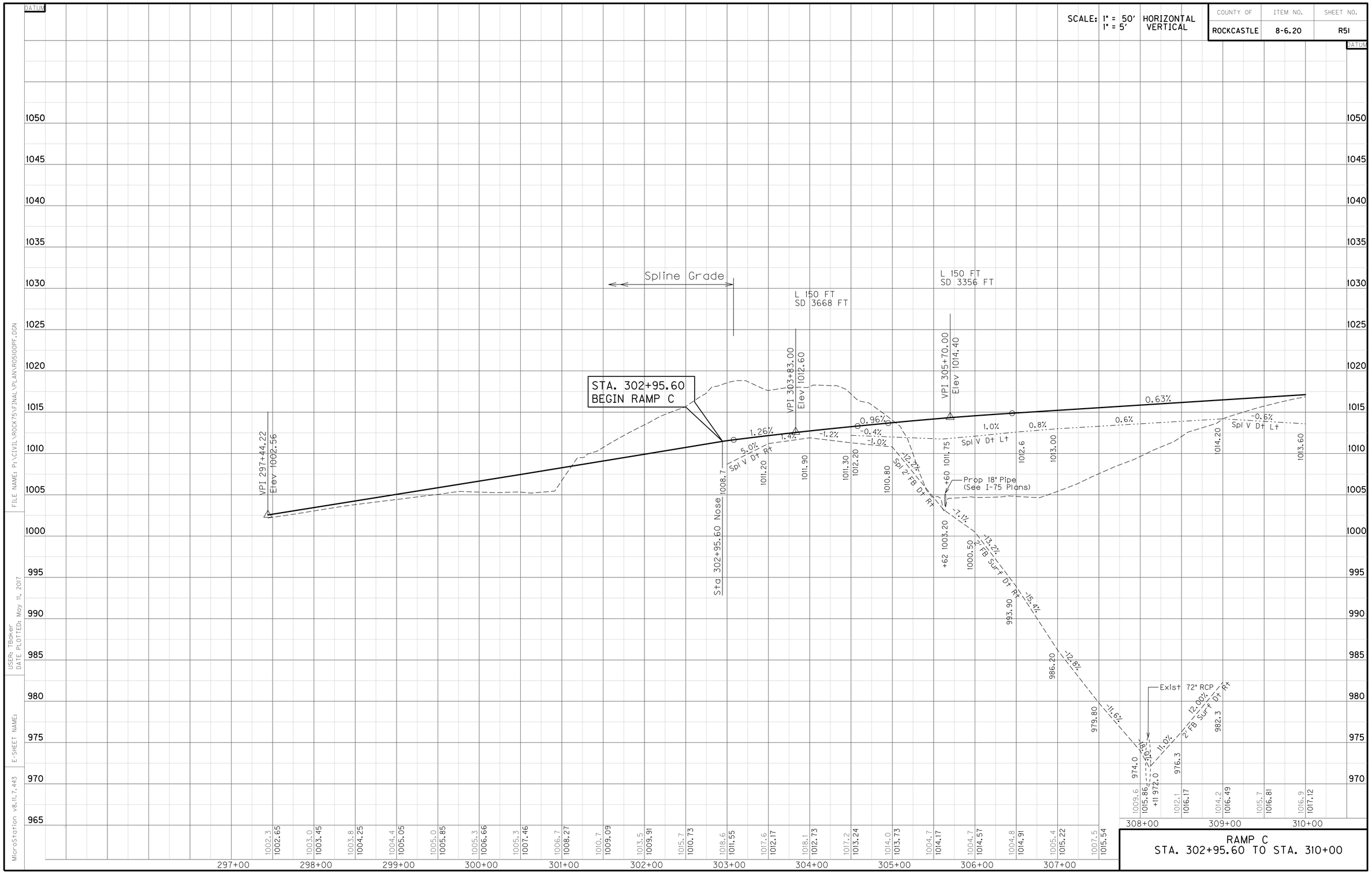
P.I. 310+69.46
Δ = 04°35'19" Rt.
C = 1°25'57"
T = 160.25'
L = 320.34'
R = 4000.00'
E = 3.21'
e = 2.4%
Runoff =] See
Runout =] X-Sects

SCALE: 1"= 50'

RAMP C
STA. 302+95.60 TO STA. 310+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R05000PL.DGN
USER: bteague
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R51



RAMP C
STA. 302+95.60 TO STA. 310+00

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R52

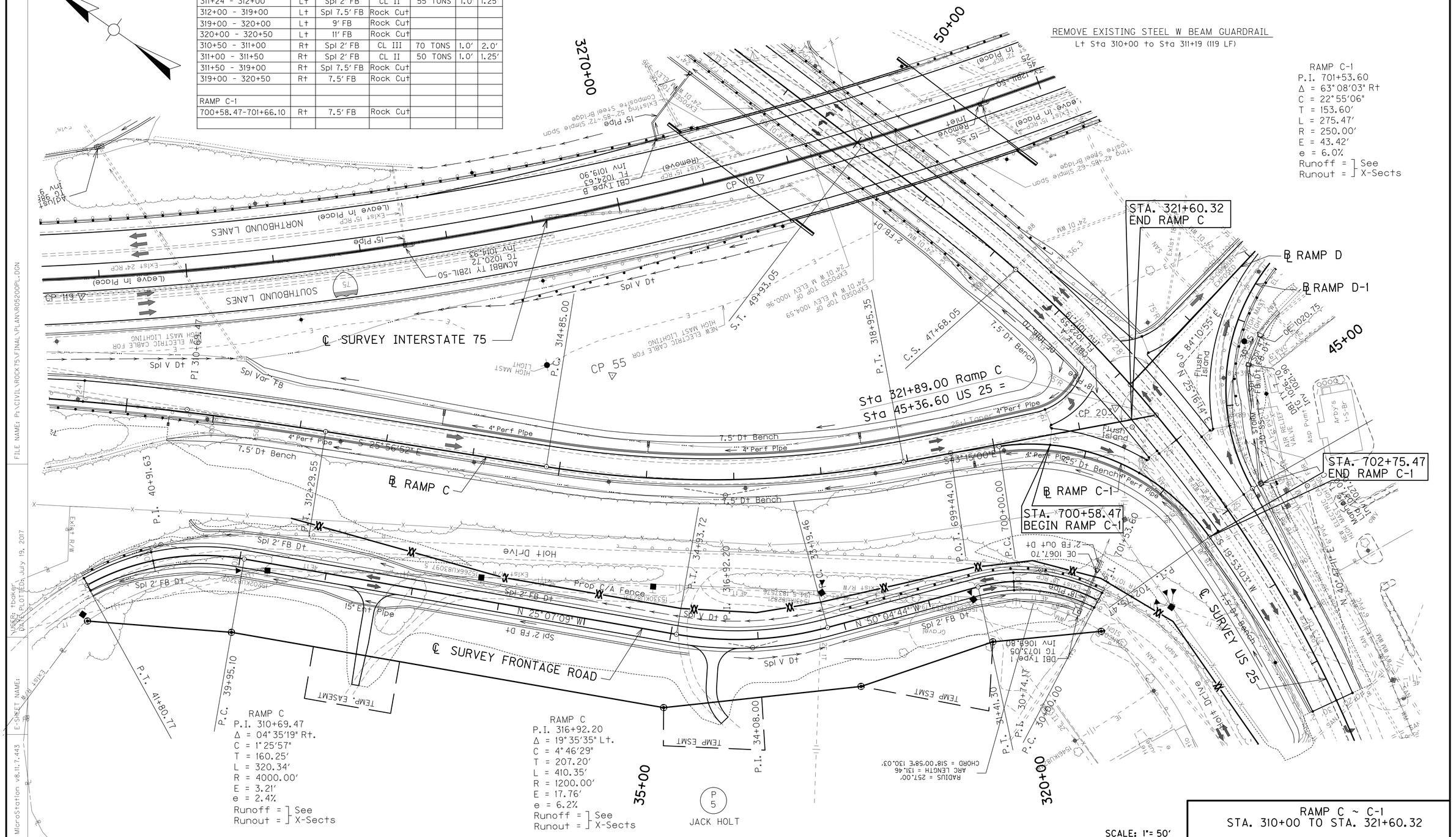
DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
RAMP C						
310+00 - 311+24	Lt	Spl V	EC Blnkt	140 SY	1.0′	
311+24 - 312+00	Lt	Spl 2′ FB	CL II	55 TONS	1.0′	1.25′
312+00 - 319+00	Lt	Spl 7.5′ FB	Rock Cut			
319+00 - 320+00	Lt	9′ FB	Rock Cut			
320+00 - 320+50	Lt	11′ FB	Rock Cut			
310+50 - 311+00	Rt	Spl 2′ FB	CL III	70 TONS	1.0′	2.0′
311+00 - 311+50	Rt	Spl 2′ FB	CL II	50 TONS	1.0′	1.25′
311+50 - 319+00	Rt	Spl 7.5′ FB	Rock Cut			
319+00 - 320+50	Rt	7.5′ FB	Rock Cut			
RAMP C-1						
700+58.47-701+66.10	Rt	7.5′ FB	Rock Cut			

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)
Rt Sta 310+00 to Sta 311+00 (100 LF)
& 1 End Treatment Type 2A

REMOVE EXISTING STEEL W BEAM GUARDRAIL
Lt Sta 310+00 to Sta 311+19 (119 LF)

RAMP C-1
P.I. 701+53.60
Δ = 63°08′03″ Rt
C = 22°55′06″
T = 153.60′
L = 275.47′
R = 250.00′
E = 43.42′
e = 6.0%
Runoff = } See
Runout = } X-Sects



RAMP C
P.I. 310+69.47
Δ = 04°35′19″ Rt.
C = 1°25′57″
T = 160.25′
L = 320.34′
R = 4000.00′
E = 3.21′
e = 2.4%
Runoff = } See
Runout = } X-Sects

RAMP C
P.I. 316+92.20
Δ = 19°35′35″ Lt.
C = 4°46′29″
T = 207.20′
L = 410.35′
R = 1200.00′
E = 17.76′
e = 6.2%
Runoff = } See
Runout = } X-Sects

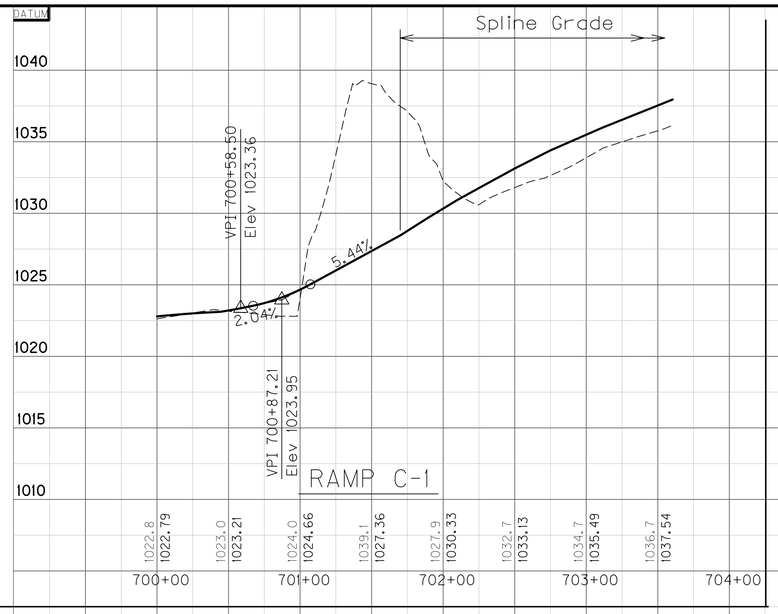
SCALE: 1″= 50′

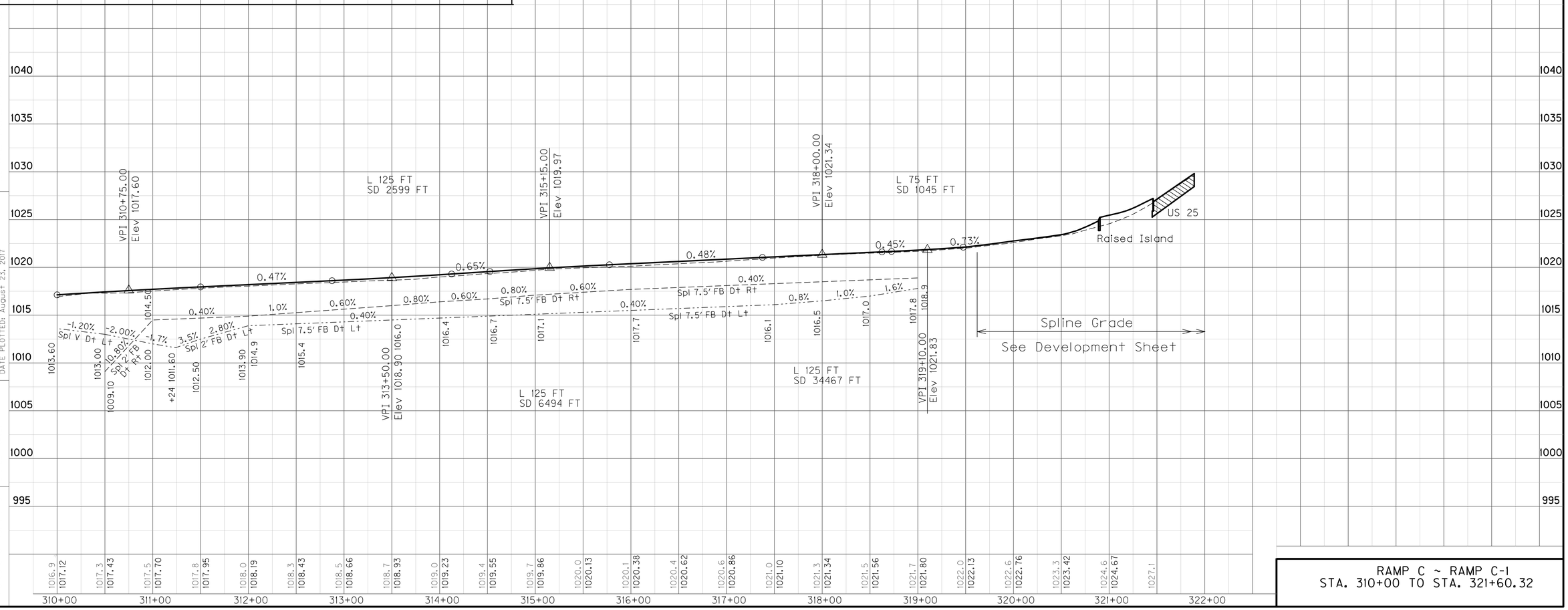
RAMP C ~ C-1
STA. 310+00 TO STA. 321+60.32

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R05200PL.DGN
USER: tbaker
DATE/PLOTTED: July 19, 2017
MicroStation v8.11.7.443
E-SHEET NAME:

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R53

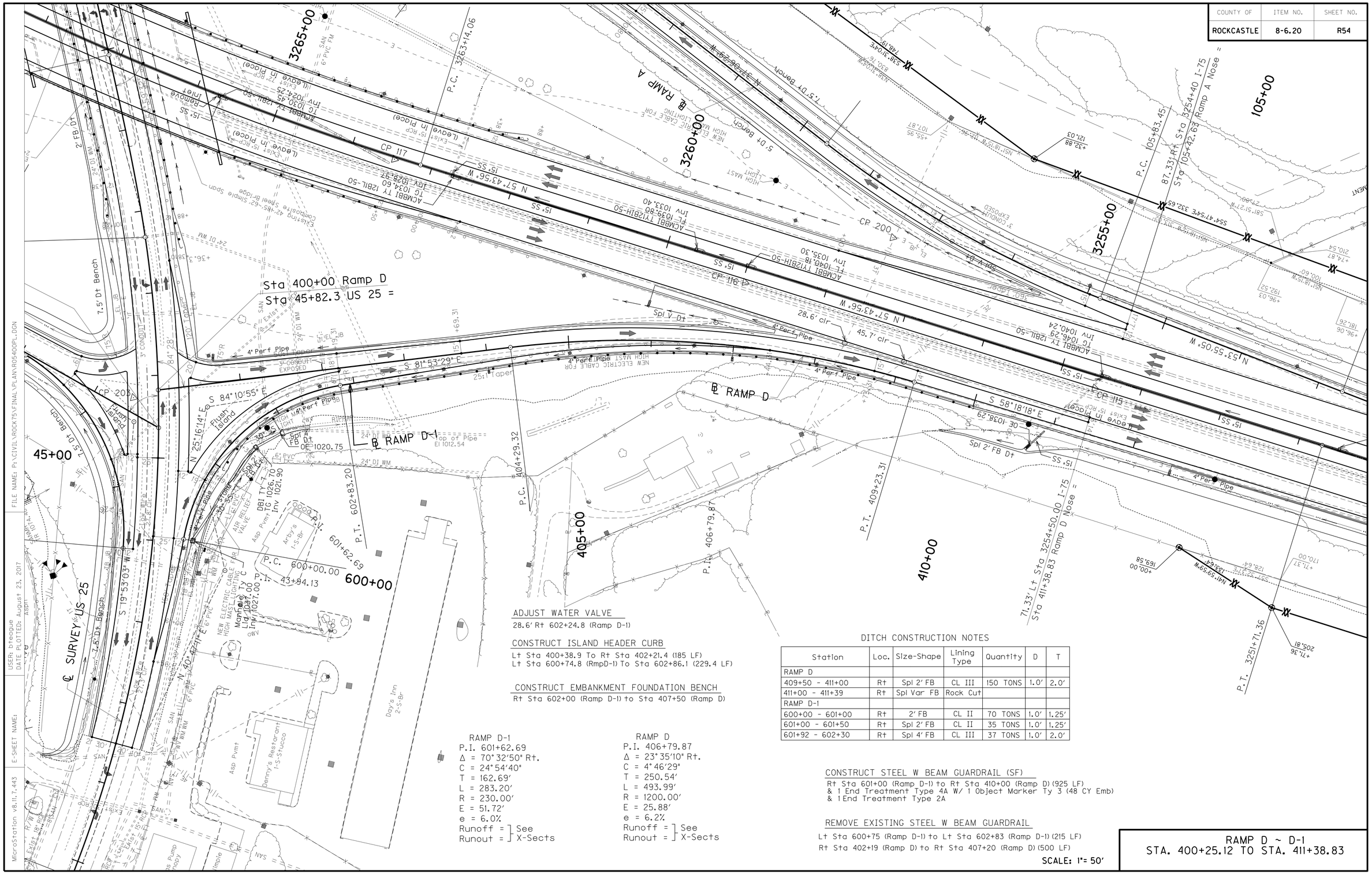




RAMP C ~ RAMP C-1
STA. 310+00 TO STA. 321+60.32

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0530PF.DGN
USER: tbaker
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R54



ADJUST WATER VALVE

28.6' Rt 602+24.8 (Ramp D-1)

CONSTRUCT ISLAND HEADER CURB

Lt Sta 400+38.9 To Rt Sta 402+21.4 (185 LF)
Lt Sta 600+74.8 (RmpD-1) To Sta 602+86.1 (229.4 LF)

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 602+00 (Ramp D-1) to Sta 407+50 (Ramp D)

RAMP D-1
P.I. 601+62.69
Δ = 70°32'50" Rt.
C = 24°54'40"
T = 162.69'
L = 283.20'
R = 230.00'
E = 51.72'
e = 6.0%
Runoff = } See
Runout = } X-Sects

RAMP D
P.I. 406+79.87
Δ = 23°35'10" Rt.
C = 4°46'29"
T = 250.54'
L = 493.99'
R = 1200.00'
E = 25.88'
e = 6.2%
Runoff = } See
Runout = } X-Sects

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
RAMP D						
409+50 - 411+00	Rt	Spl 2' FB	CL III	150 TONS	1.0'	2.0'
411+00 - 411+39	Rt	Spl Var FB	Rock Cut			
RAMP D-1						
600+00 - 601+00	Rt	2' FB	CL II	70 TONS	1.0'	1.25'
601+00 - 601+50	Rt	Spl 2' FB	CL II	35 TONS	1.0'	1.25'
601+92 - 602+30	Rt	Spl 4' FB	CL III	37 TONS	1.0'	2.0'

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 601+00 (Ramp D-1) to Rt Sta 410+00 (Ramp D) (925 LF)
& 1 End Treatment Type 4A W/ 1 Object Marker Ty 3 (48 CY Emb)
& 1 End Treatment Type 2A

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 600+75 (Ramp D-1) to Lt Sta 602+83 (Ramp D-1) (215 LF)
Rt Sta 402+19 (Ramp D) to Rt Sta 407+20 (Ramp D) (500 LF)

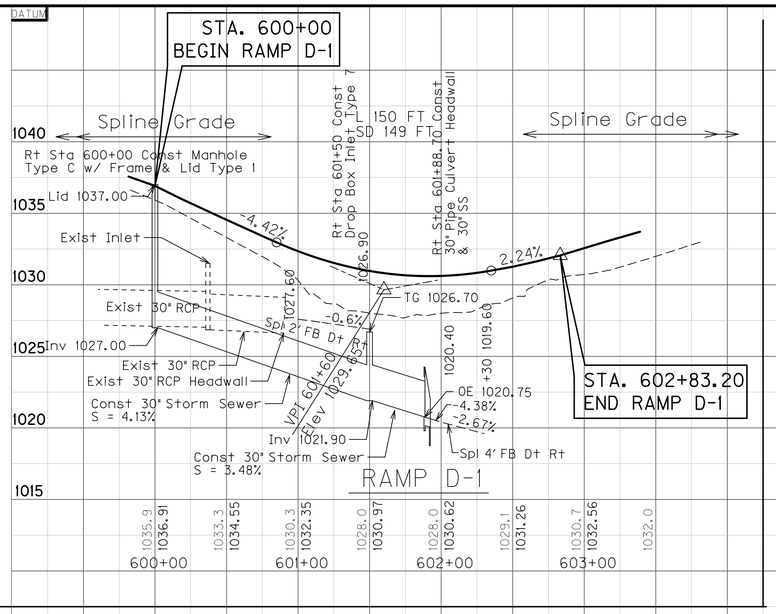
SCALE: 1"= 50'

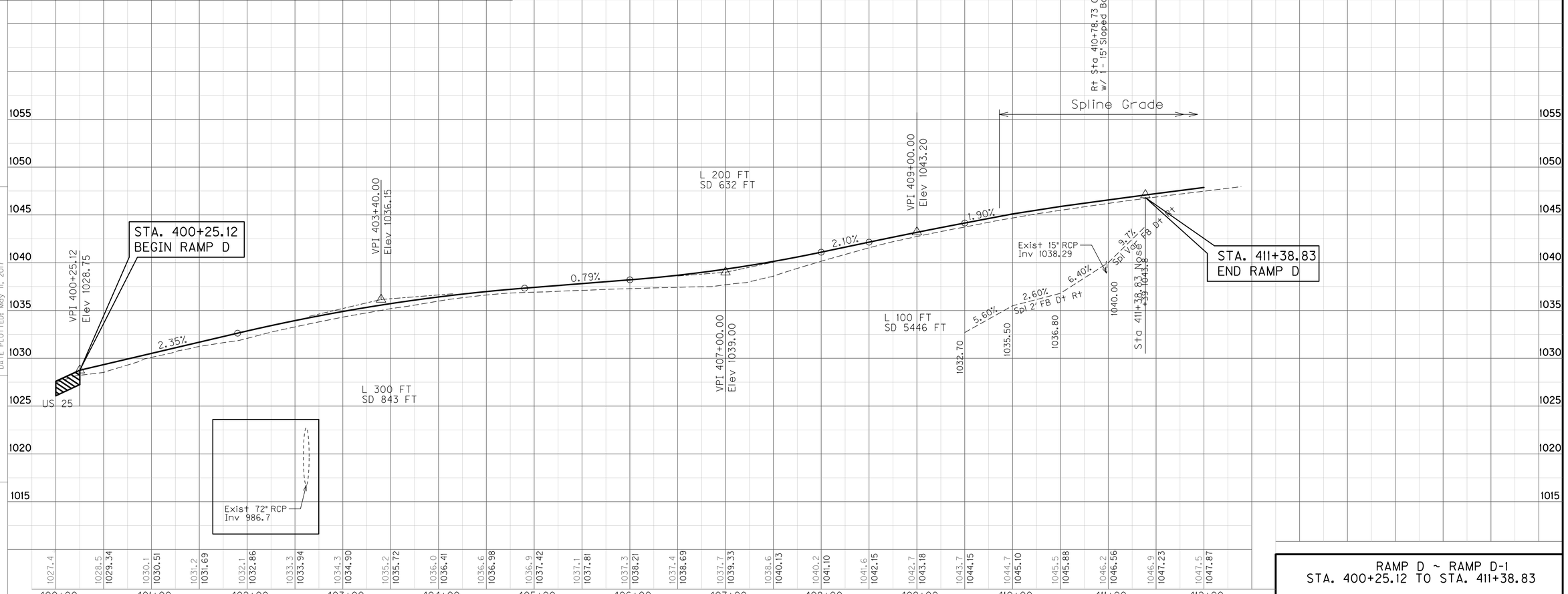
RAMP D ~ D-1
STA. 400+25.12 TO STA. 411+38.83

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R05400PL.DGN
USER: bteague
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R55

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL





RAMP D ~ RAMP D-1
STA. 400+25.12 TO STA. 411+38.83

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R55PDPF.DGN
USER: TBaker
DATE PLOTTED: May 11, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R56

P.I. 43+94.13
Δ = 38°27'40" Lt.
C = 3°47'40"
Ts = 639.71'
Ls = 225.00'
Lc = 788.62'
θ = 4°16'07"
L.T.= 150.04'
S.T.= 75.04'
R = 1510.00'
Es = 90.72'
e = 5.2%
Runoff =] See
Runout =] X-Sects

DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
46+13 - 41+50	Lt	Var FB	Rock Cut			
41+50 - 45+00	Lt	7.5' FB	Rock Cut			
46+50 - 47+50	Lt	7.5' FB	Rock Cut			
47+50 - 49+00	Lt	Var FB	Rock Cut			
49+00 - 50+00	Lt	2' FB	CL II	70 TONS	1.0'	1.25'
43+50 - 44+05	Rt	2' FB	CL II	40 TONS	1.0'	1.25'
47+50 - 50+00	Rt	2' FB	CL II	280 TONS	1.0'	1.25'

CONSTRUCT STANDARD HEADER CURB
Lt Sta 49+00 To 50+00 (100 LF)

REMOVE EXISTING STEEL W BEAM GUARDRAIL
Rt Sta 46+78 to Sta 50+00 (329 LF)
Lt Sta 49+00 to Sta 50+00 (98 LF)

CONSTRUCT EDGE KEY
Sta 41+50 (50 LF)

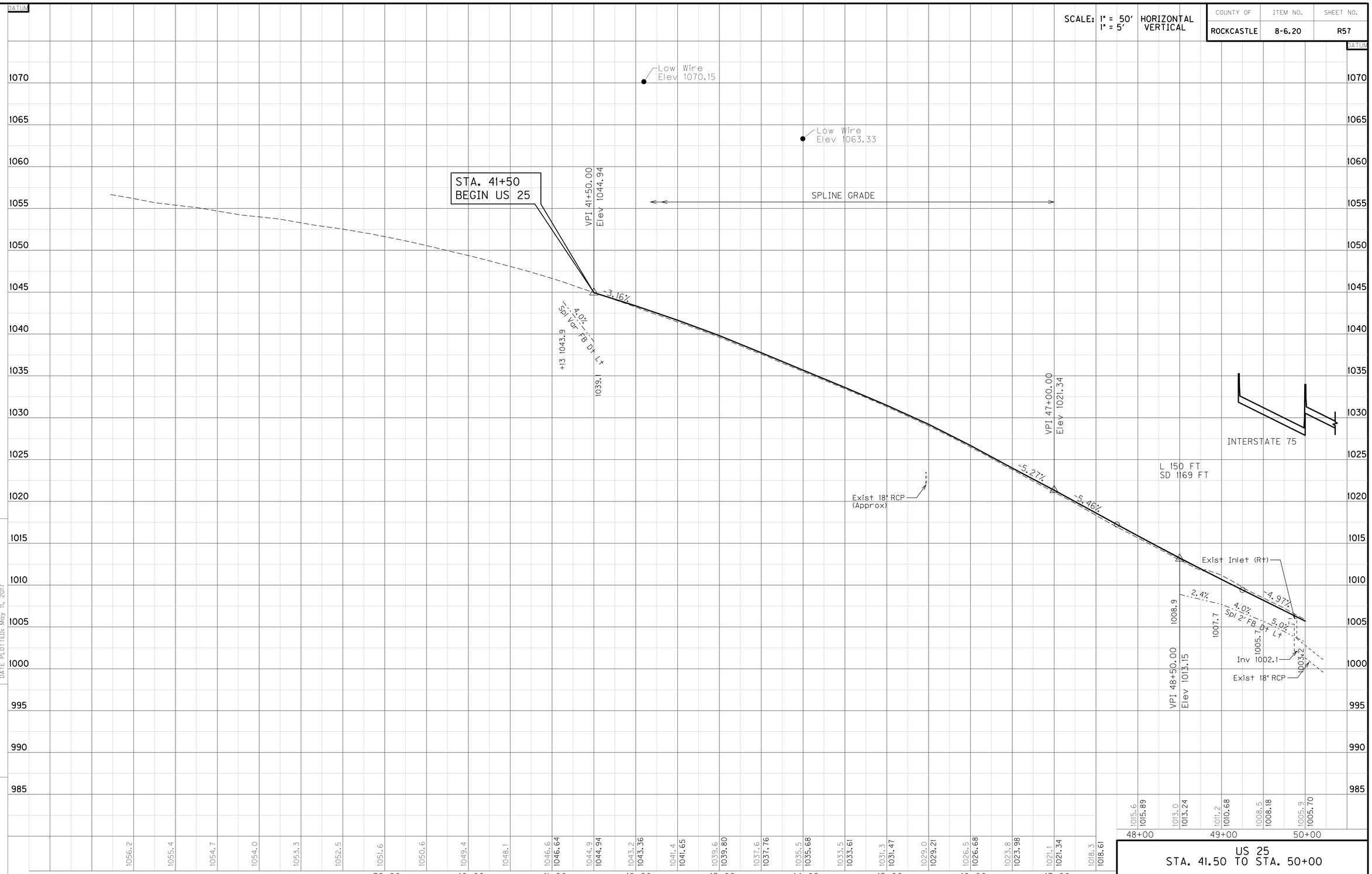
CONSTRUCT STEEL W BEAM GUARDRAIL (SF)
Rt Sta 47+50 to Sta 50+00 (215.9 LF)
& 1 End Treatment Type 4A W/ 1 Object Marker Ty 3
(37 CY Emb)

SCALE: 1"= 50'

US 25
STA. 41+50 TO STA. 50+00

MicroStation v8.11.7.443
E-SHEET NAME:
USER: tbaker
DATE PLOTTED: July 19, 2017
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R05600PL.DGN

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R57



US 25
STA. 41.50 TO STA. 50+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R057OPF.DGN
USER: tvonbehren
DATE PLOTTED: May 11, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R58

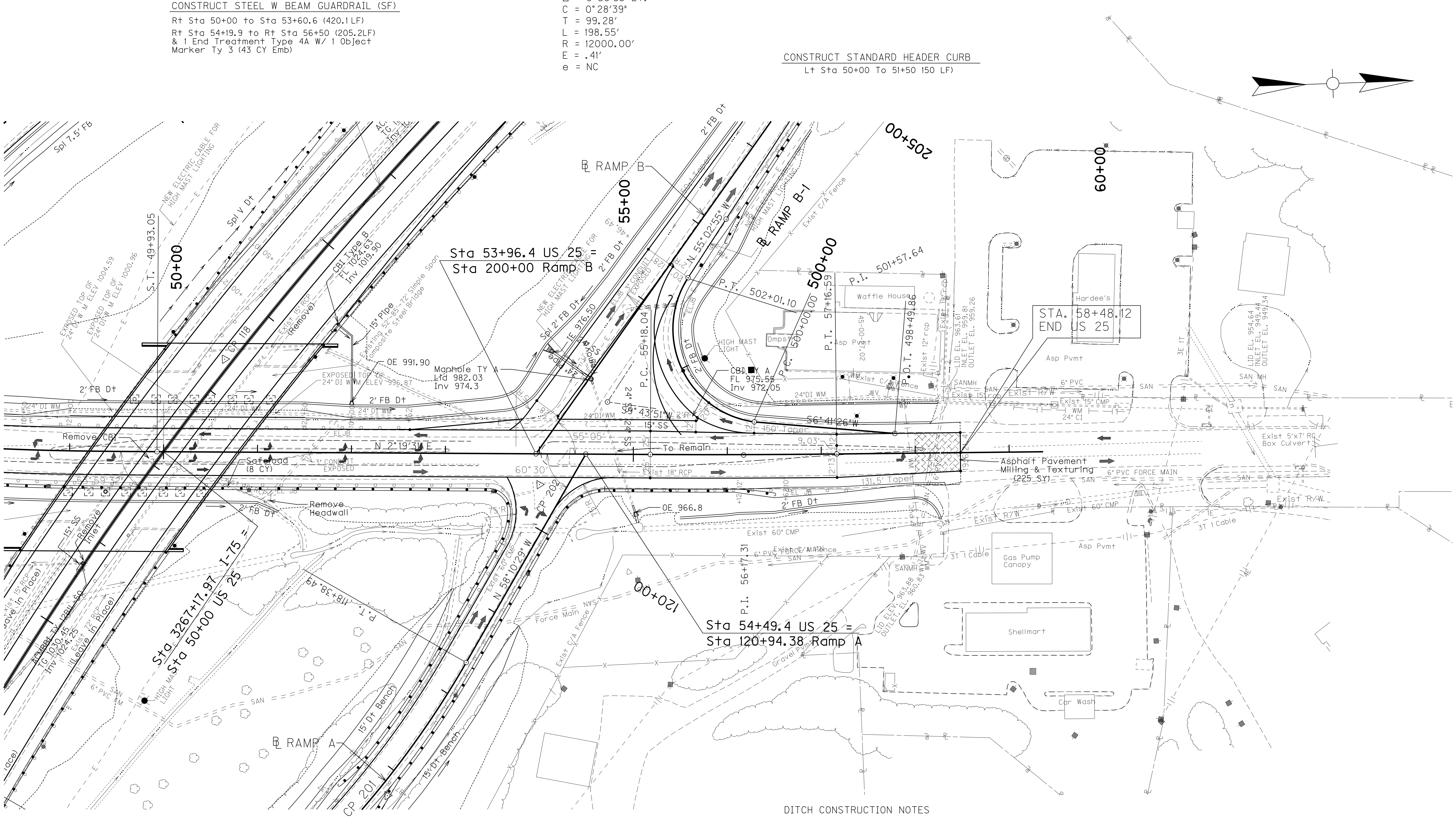
CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

Rt Sta 50+00 to Sta 53+60.6 (420.1 LF)
Rt Sta 54+19.9 to Rt Sta 56+50 (205.2 LF)
& 1 End Treatment Type 4A W/ 1 Object Marker Ty 3 (43 CY Emb)

P.I. 56+17.31
Δ = 0°56'53" Lt.
C = 0°28'39"
T = 99.28'
L = 198.55'
R = 12000.00'
E = .41'
e = NC

CONSTRUCT STANDARD HEADER CURB

Lt Sta 50+00 To 51+50 150 LF)



REMOVE EXISTING STEEL W BEAM GUARDRAIL

Lt Sta 50+00 to Sta 53+30 (330 LF)
Rt Sta 50+00 to Sta 53+61 (423 LF)
Rt Sta 54+50 to Rt Sta 58+29 (380 LF)

CONSTRUCT EMBANKMENT FOUNDATION BENCH

Rt Sta 51+25 to Sta 53+40

DITCH CONSTRUCTION NOTES

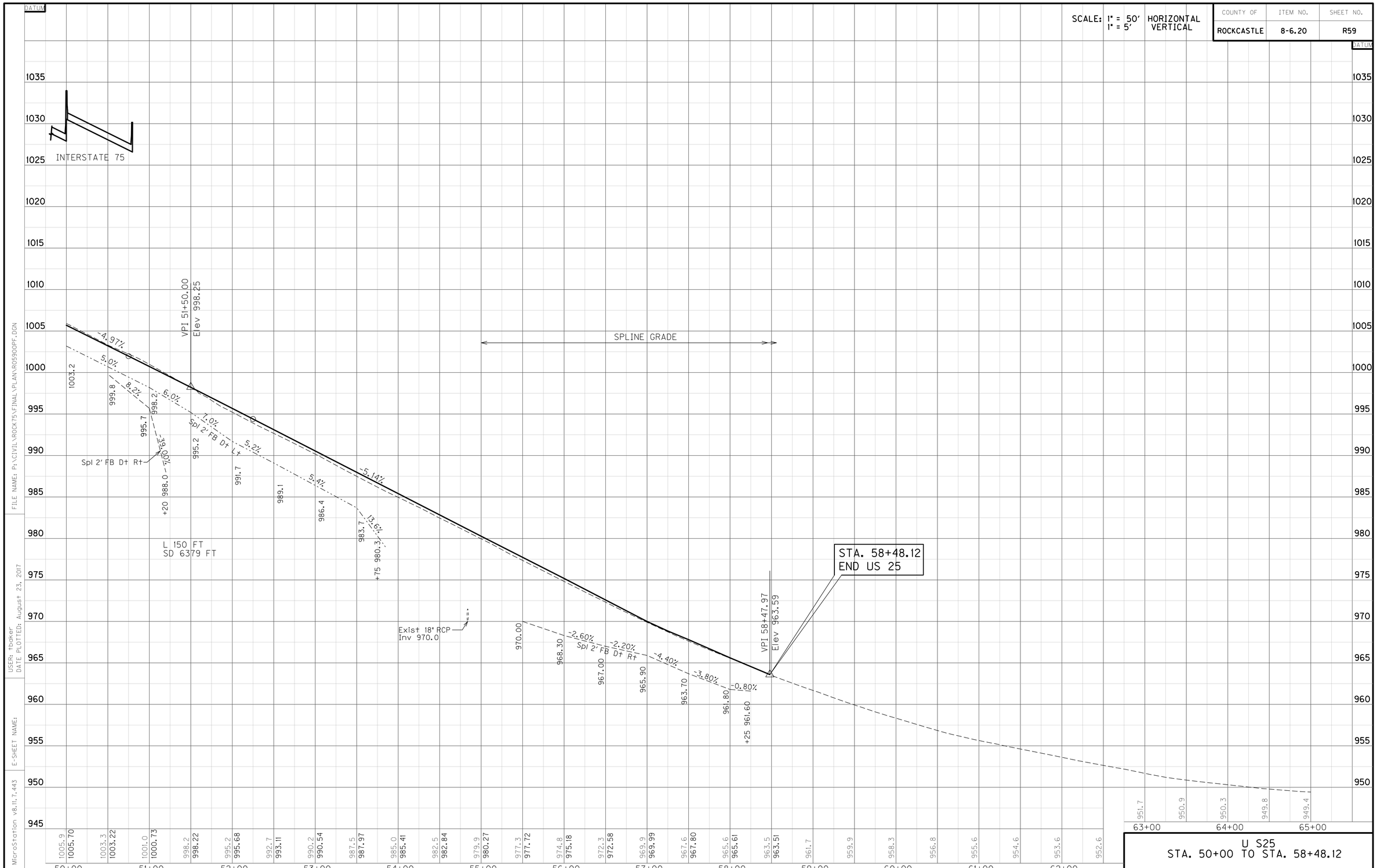
Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
50+00 - 53+75	Lt	2' FB	CL II	210 TONS	1.0'	1.25'
56+50 - 58+25	Lt	2' FB	CL II	120 TONS	1.0'	1.25'
50+00 - 50+50	Rt	2' FB	CL II	30 TONS	1.0'	1.25'
50+50 - 51+20	Rt	Spl 2' FB	CL III	60 TONS	1.0'	2.0'
55+50 - 57+00	Rt	Spl 2' FB	EC Blnkt	170 SY	1.0'	
57+00 - 58+25	Rt	2' FB	CL II	90 TONS	1.0'	1.25'

SCALE: 1"= 50'

US 25
STA. 50+00 TO 58+48.12

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: tbaker DATE PLOTTED: May 11, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R05800PL.DGN

SCALE: 1" = 50' HORIZONTAL 1" = 5' VERTICAL	COUNTY OF	ITEM NO.	SHEET NO.
	ROCKCASTLE	8-6.20	R59



U S25
STA. 50+00 TO STA. 58+48.12

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R05900PF.DGN
USER: tbaker
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R60

P.I. 30+74.17
Δ = 43°03'46" Lt.
C = 30°28'35"
T = 74.17'
L = 141.30'
R = 188.00'
E = 14.10'
e = 6.0%
Runoff =] See
Runout =] X-Sects

CONSTRUCT ENTRANCE

Lt Sta 34+50 Construct 12' Field Entrance (Asphalt, 122 SY) (No Pipe)

Lt Sta 38+44.7 Construct 12' Field Entrance (Asphalt, 146 LF) & 38'-15" Entrance Pipe

CONSTRUCT STEEL W BEAM GUARDRAIL (SF)

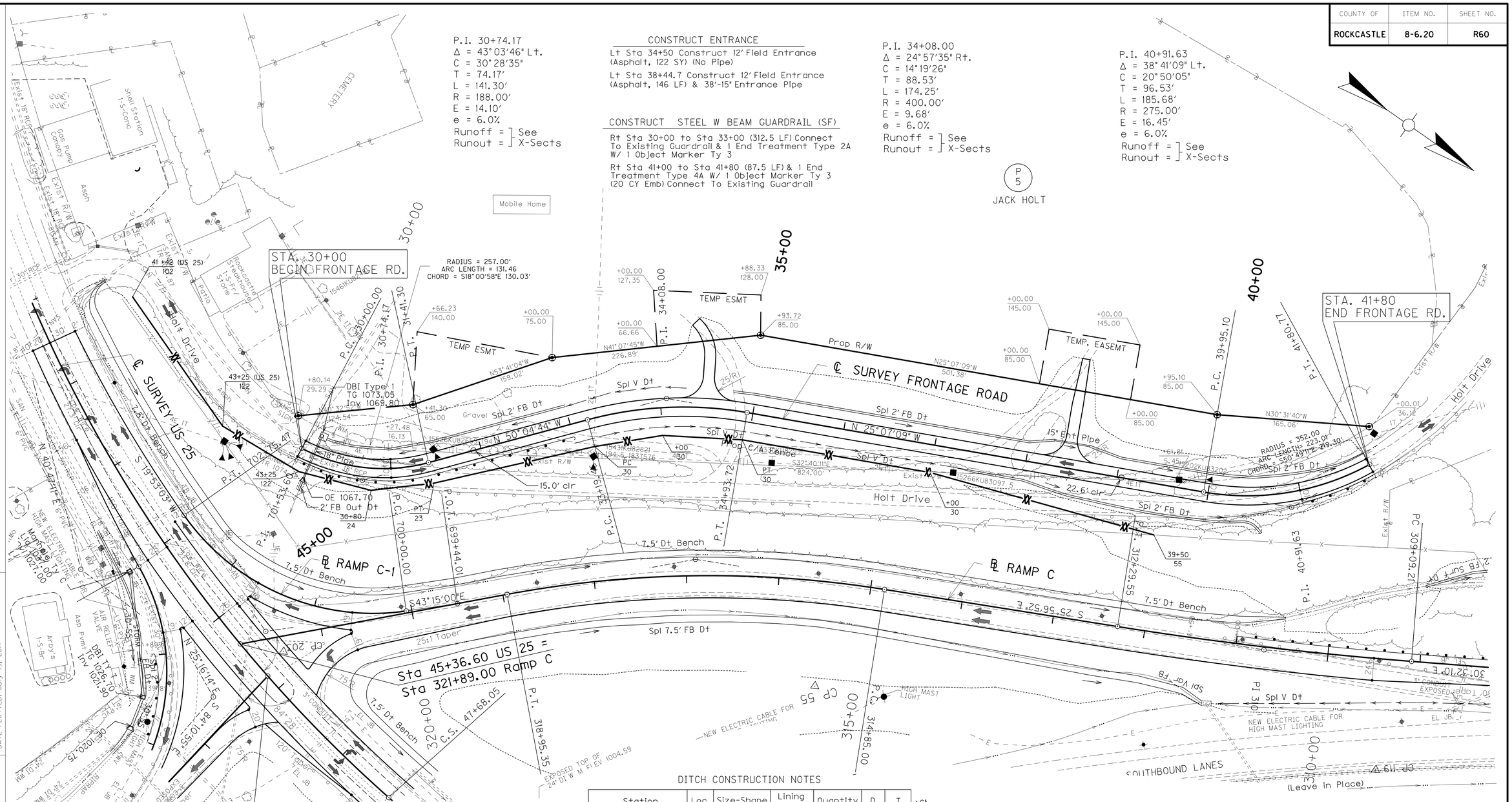
Rt Sta 30+00 to Sta 33+00 (312.5 LF) Connect To Existing Guardrail & 1 End Treatment Type 2A W/ 1 Object Marker Ty 3

Rt Sta 41+00 to Sta 41+80 (87.5 LF) & 1 End Treatment Type 4A W/ 1 Object Marker Ty 3 (20 CY Emb) Connect To Existing Guardrail

P.I. 34+08.00
Δ = 24°57'35" Rt.
C = 14°19'26"
T = 88.53'
L = 174.25'
R = 400.00'
E = 9.68'
e = 6.0%
Runoff =] See
Runout =] X-Sects

P.I. 40+91.63
Δ = 38°41'09" Lt.
C = 20°50'05"
T = 96.53'
L = 185.68'
R = 275.00'
E = 16.45'
e = 6.0%
Runoff =] See
Runout =] X-Sects

P 5
JACK HOLT



DITCH CONSTRUCTION NOTES

Station	Loc.	Size-Shape	Lining Type	Quantity	D	T
30+14.70 - 33+00	Lt	Spl 2' FB	CL II	200 TONS	1.0'	1.25'
33+00 - 34+27	Lt	Spl V	EC Blnkt	125 SY	1.0'	
34+75 - 38+27	Lt	Spl 2' FB	CL II	75 TONS	1.0'	1.25'
38+27 - 38+65	Lt	Spl 2' FB	Pipe			
38+65 - 41+80	Lt	Spl 2' FB	CL II	175 TONS	1.0'	1.25'
33+00 - 35+00	Rt	Spl V	EC Blnkt	180 SY	1.0'	
35+00 - 37+50	Rt	Spl V	CL II	55 TONS	1.0'	1.25'
37+50 - 40+55	Rt	Spl 2' FB	CL III	300 TONS	1.0'	2.0'

REMOVE EXISTING STEEL W BEAM GUARDRAIL

Rt Sta 30+00 to Sta 35+78 (Remove 561 LF Guardrail)
Rt Sta 38+32.5 to Sta 41+80 (Remove 362 LF Guardrail)

Construct Woven Wire Fence Type 1

Lt Sta 41+42.32 (US 25) to Rt Sta 39+50 (Frontage Road) (1213 LF)

CONSTRUCT EDGE KEY

Sta 30+00 (19.1 LF)
Sta 41+80 (15.8 LF)

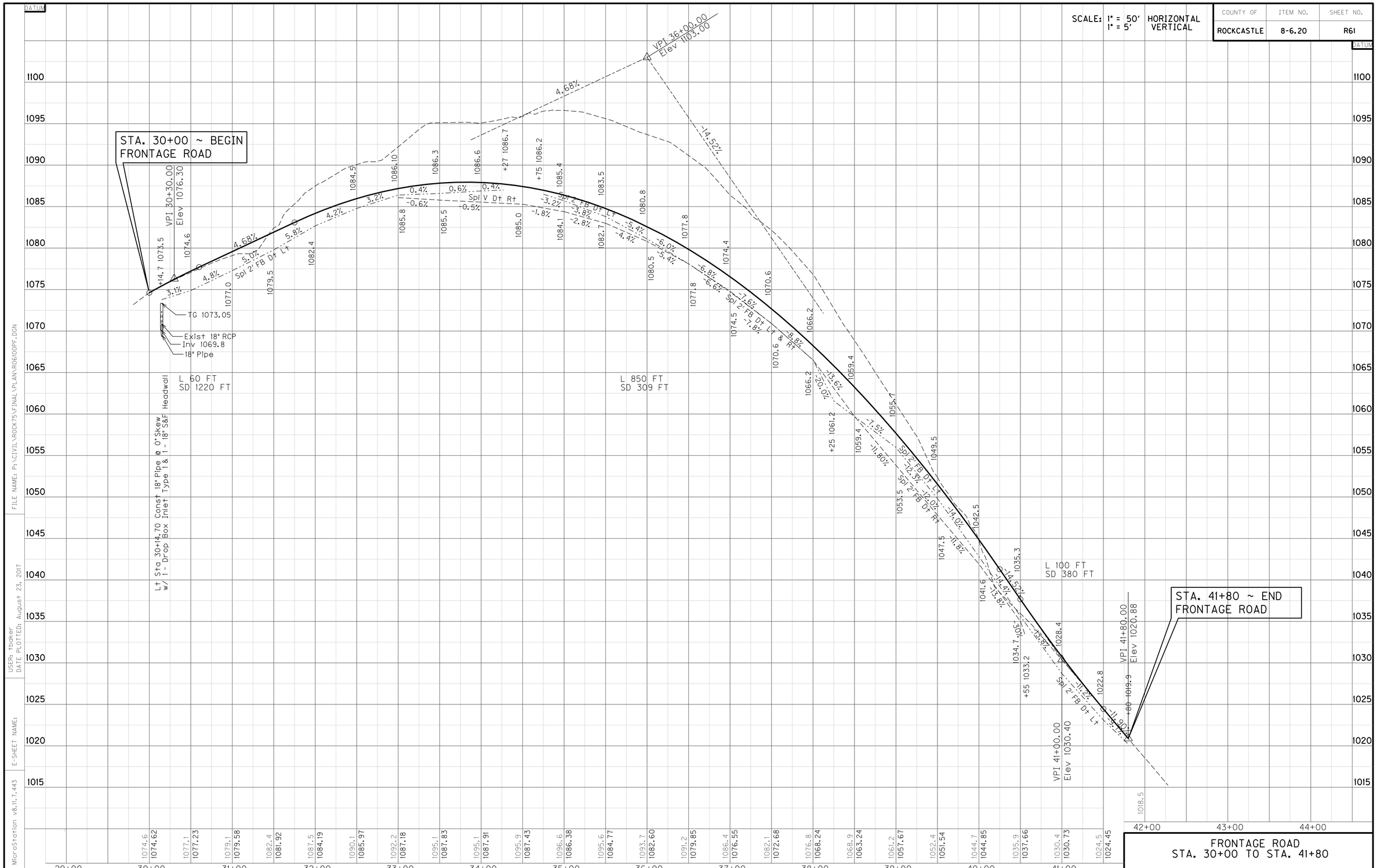
SCALE: 1"= 50'

FRONTAGE ROAD
STA. 30+00 TO STA. 41+80

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R6000PL.DGN
USER: tbaker
DATE PLOTTED: July 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R61

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



FRONTAGE ROAD
STA. 30+00 TO STA. 41+80

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R06100PF.DGN
USER: tbaker
DATE PLOTTED: August 23, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R62

RIGHT OF WAY SUMMARY

PARCEL NO.	NAME	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				HAZARDOUS WASTE	REMARKS
						PERMANENT	TEMPORARY	LEFT		RIGHT														
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
1	PAUL THOMASON FAYE THOMASON (WF)	25.0			11897									24.727		5		X					NA	DB 125 PG 423
2	ED WESLEY VERLENE WESLEY (WF)		7157		2077										5080	5		X					NA	DB 139 PG 608
3	BIG ROCK, INC.	83.844			25434									83.260		5		X					NA	DB 216 PG 493 & PB 4 PG 570 SL 798 (TRACT 2)
4	HENRY DALE COFFEY PHYLLIS N. COFFEY (WF)	28.137			22910									27.611		5		X					NA	DB 234 PG 134
5	JACK HOLT	16.7		2.383			17773							14.317		5	X		1				NA	DB 132 PG 131
6	BILLY W. DAVIS CAROLYN DAVIS (WF)	25.08			27511									24.448		5		X					NA	DB 131 PG 706 & PB 3 PG 15
7	CITY OF MT. VERNON	24.120					27700							24.120		5		X					NA	DB 225 PG 623, PB 4 PG 690 SL 918, PB 4 PG 612 SL 840
8	K. R. BURDETTE	30.0		1.409										28.591		5		X					NA	DB 70 PG 482
9	TOMMY MULLINS	56.506			33682									55.733		5		X					NA	DB 179 PG 32 & DB 168 PG 550
10	NOT USED																							
11	JERRY LEE DOWELL	43.15			6862									42.992		5		X					NA	DB 92 PG 366 (KEITH L. COFFEY, SUSAN B.(WF) HAVE A PURCHASE
																								CONTRACT RECORDED IN DB 222 PG 687)
12	ADVANCE ADVENTURE INVESTMENTS, INC.	5.602	(1) *(LANDLOCKED)*		19102									5.163		5		X					NA	DB 218 PG 98, PB 4 PG 570 SL 798
13	HENRY DALE COFFEY PHYLLIS N. COFFEY (WF)	3.720			22910									3.194		5		X					NA	DB 170 PG 13
	HERMAN SMITH CONNIE SMITH (WF) HERMAN D. SMITH																							*(INGRESS/EGRESS EASEMENT)*

(1) PARCEL 12 IS LANDLOCKED FROM A PREVIOUS SALE.

NOTE: PERMANENT R/W ACQUIRED + PERMANENT EASEMENT
+ AREA SEVERED = TOTAL AREA OF TRACT.

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERCIAL
R - RESIDENTIAL
F - FARM
S - STORAGE

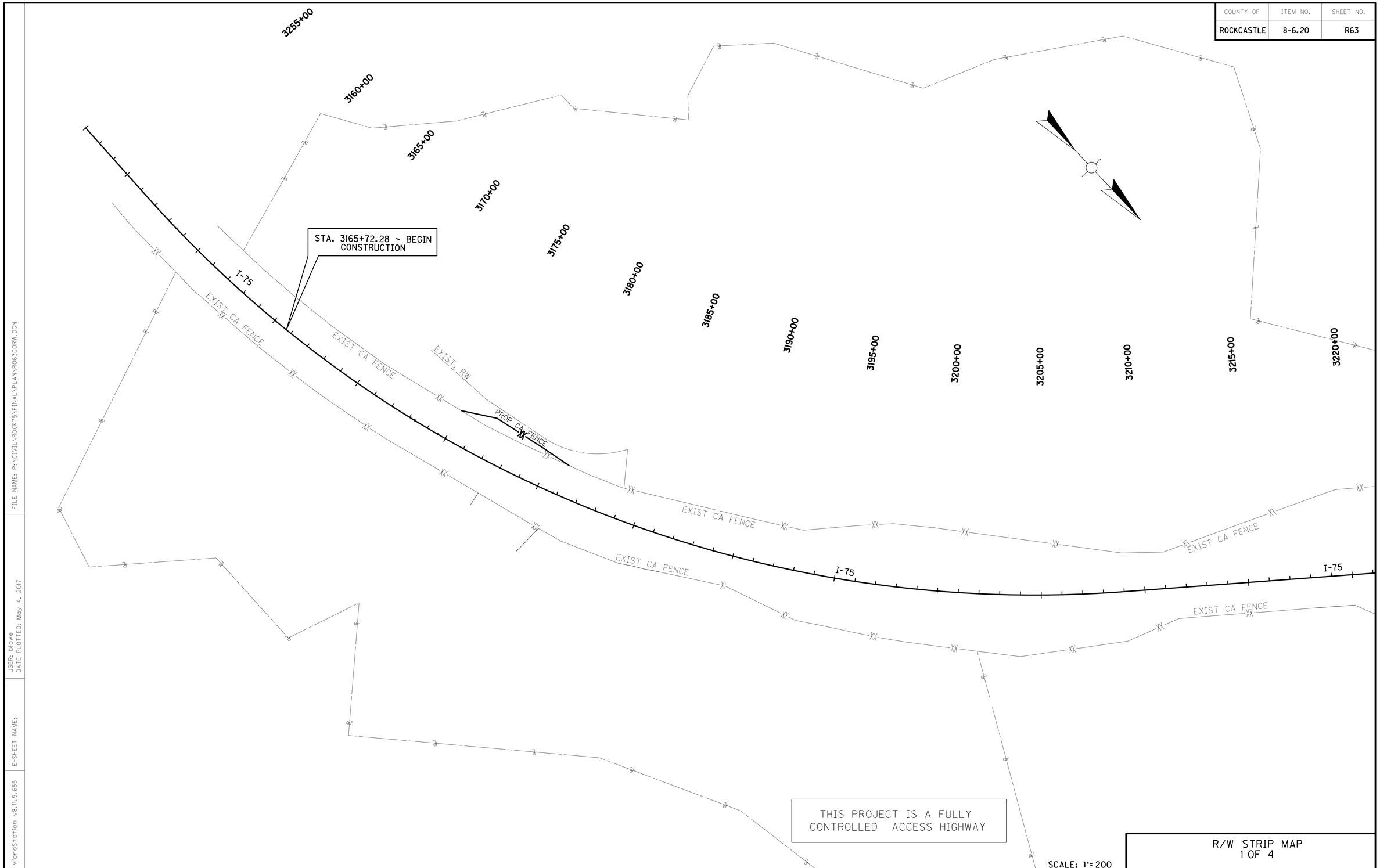
HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

THIS PROJECT IS A FULLY
CONTROLLED ACCESS HIGHWAY

RIGHT OF WAY SUMMARY

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R06200RW.DGN
USER: lstoggs
DATE PLOTTED: May 11, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

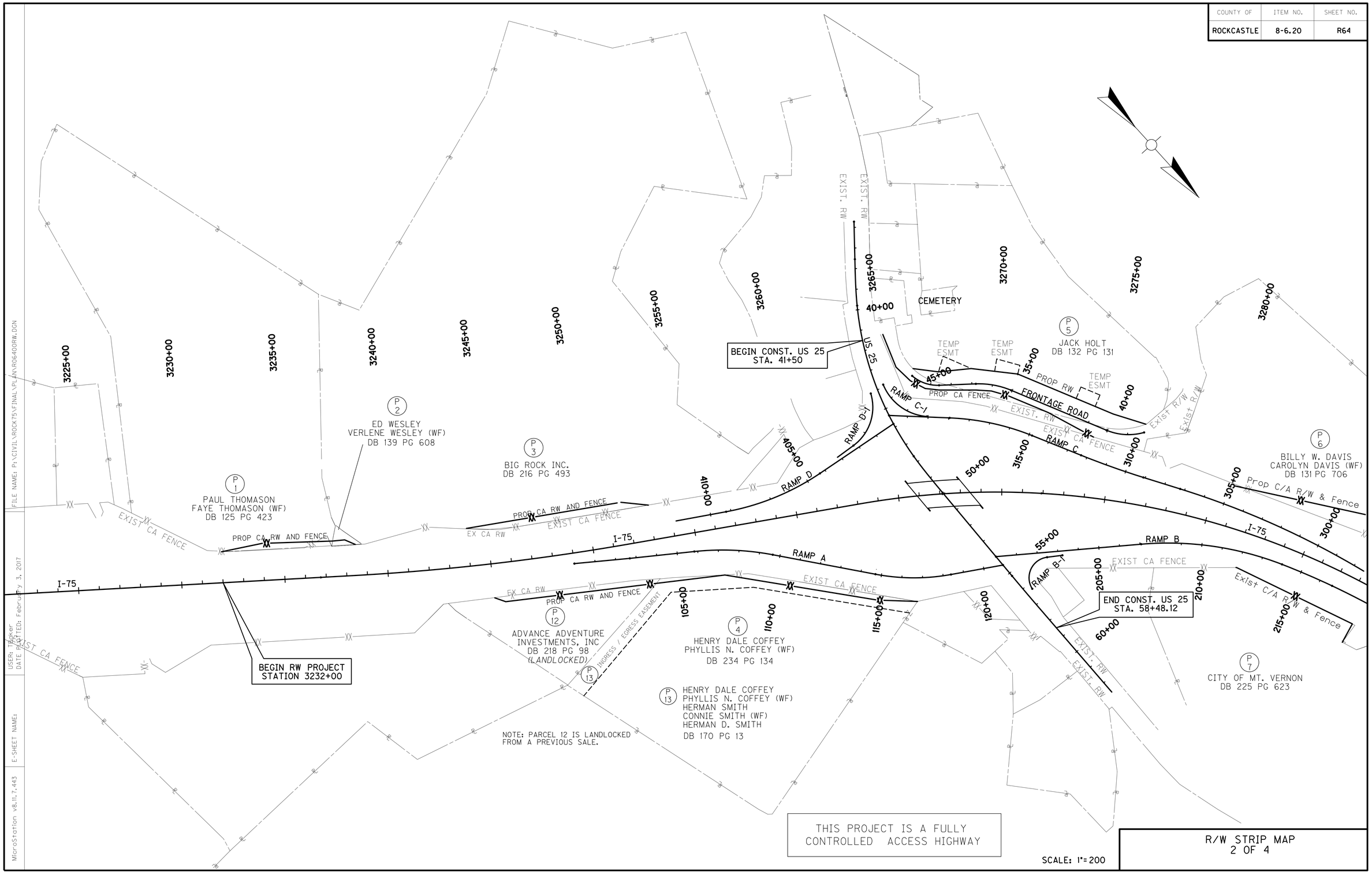
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R63



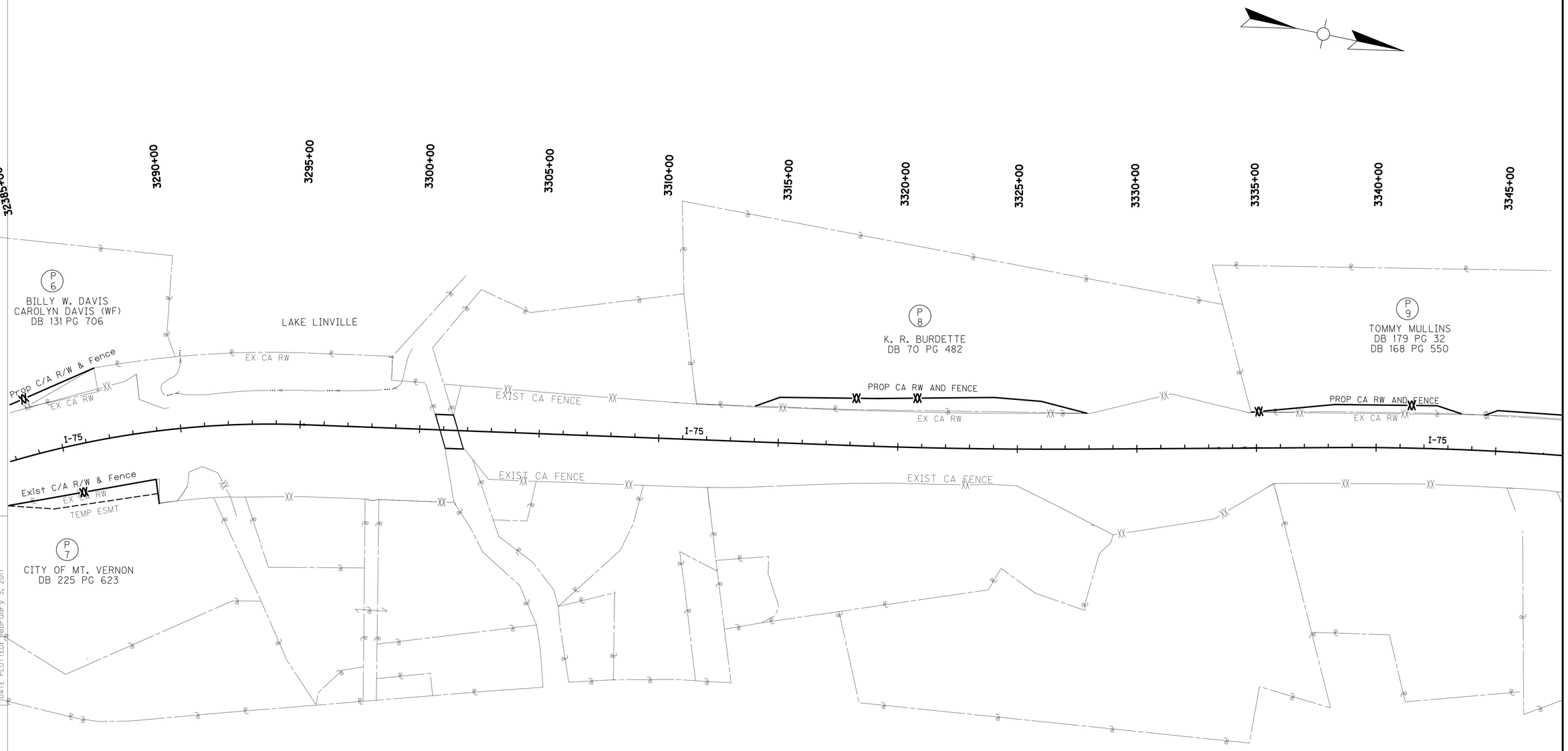
R/W STRIP MAP
1 OF 4

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R06300RW.DGN
USER: blowe
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.9.655

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R64



COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R65



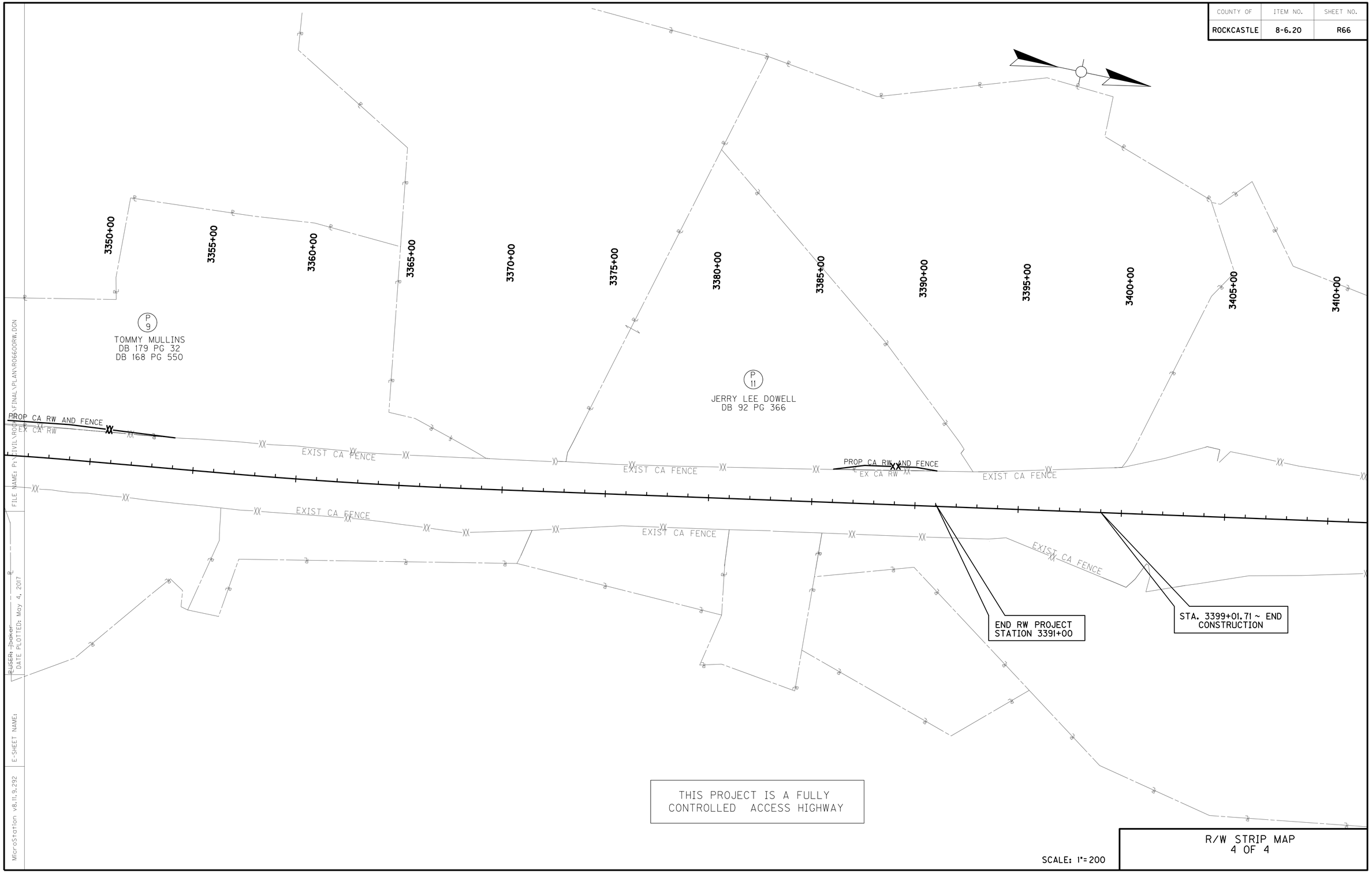
THIS PROJECT IS A FULLY
CONTROLLED ACCESS HIGHWAY

SCALE: 1"=200

R/W STRIP MAP
3 OF 4

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R06500RW.DGN
USER: TBaker
DATE PLOTTED: February 3, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R66

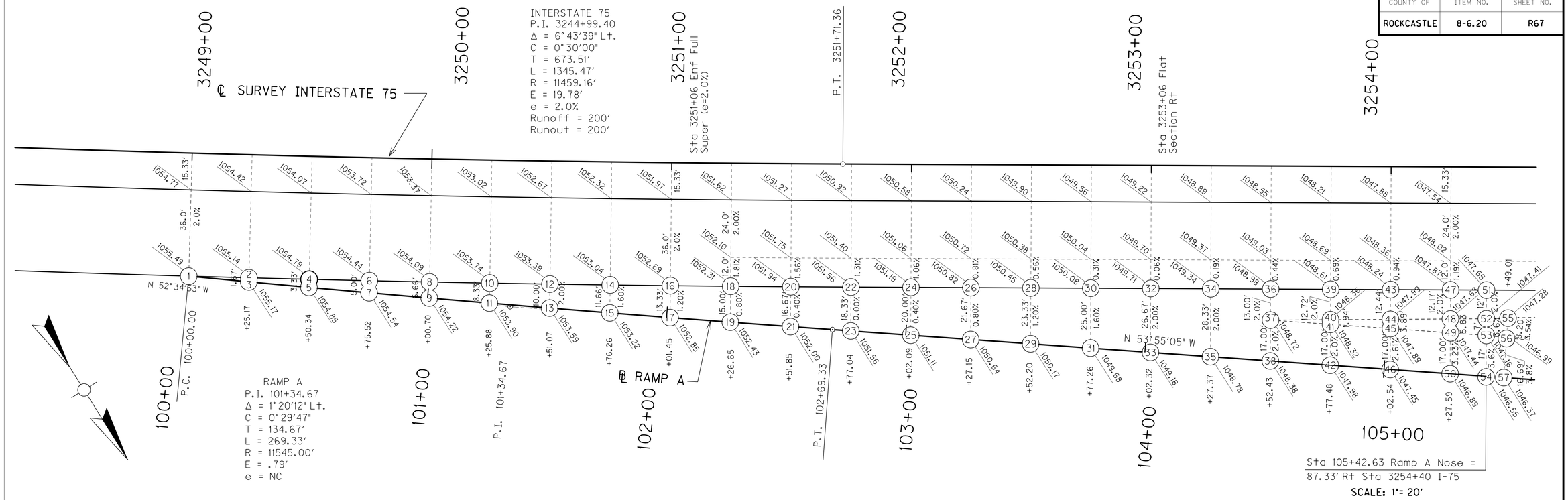


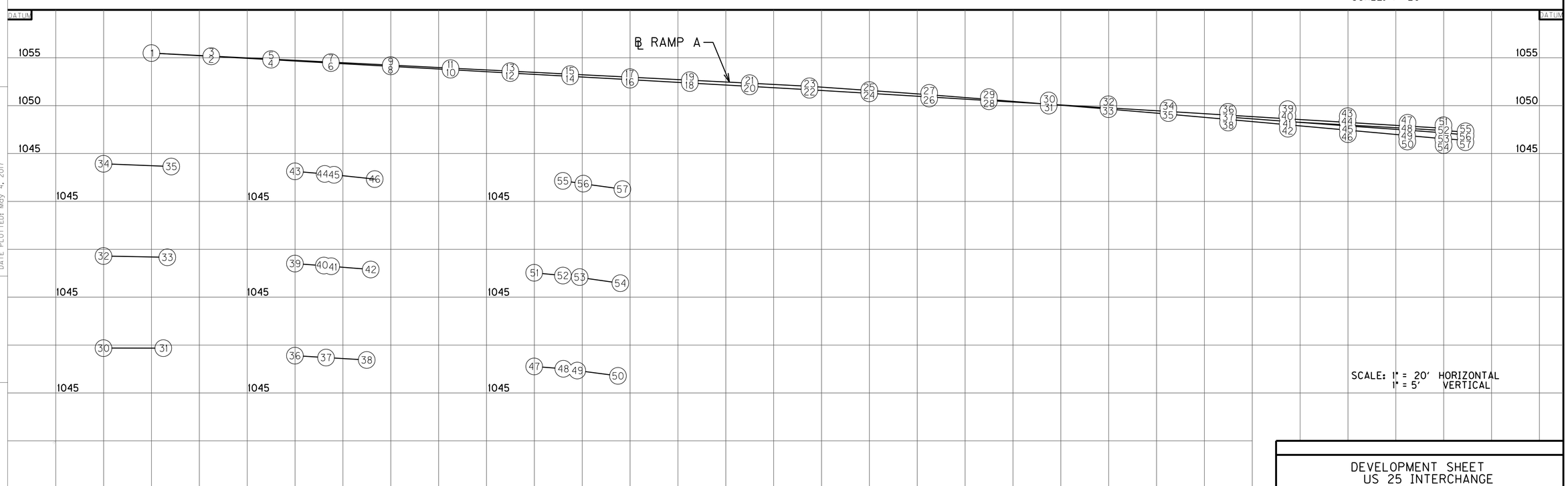
SCALE: 1"=200

R/W STRIP MAP
4 OF 4

FILE NAME: P:\CIVIL\ROCK\FINAL\PLAN\R66600RW.DGN
R-USER: jbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.9.292

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R67

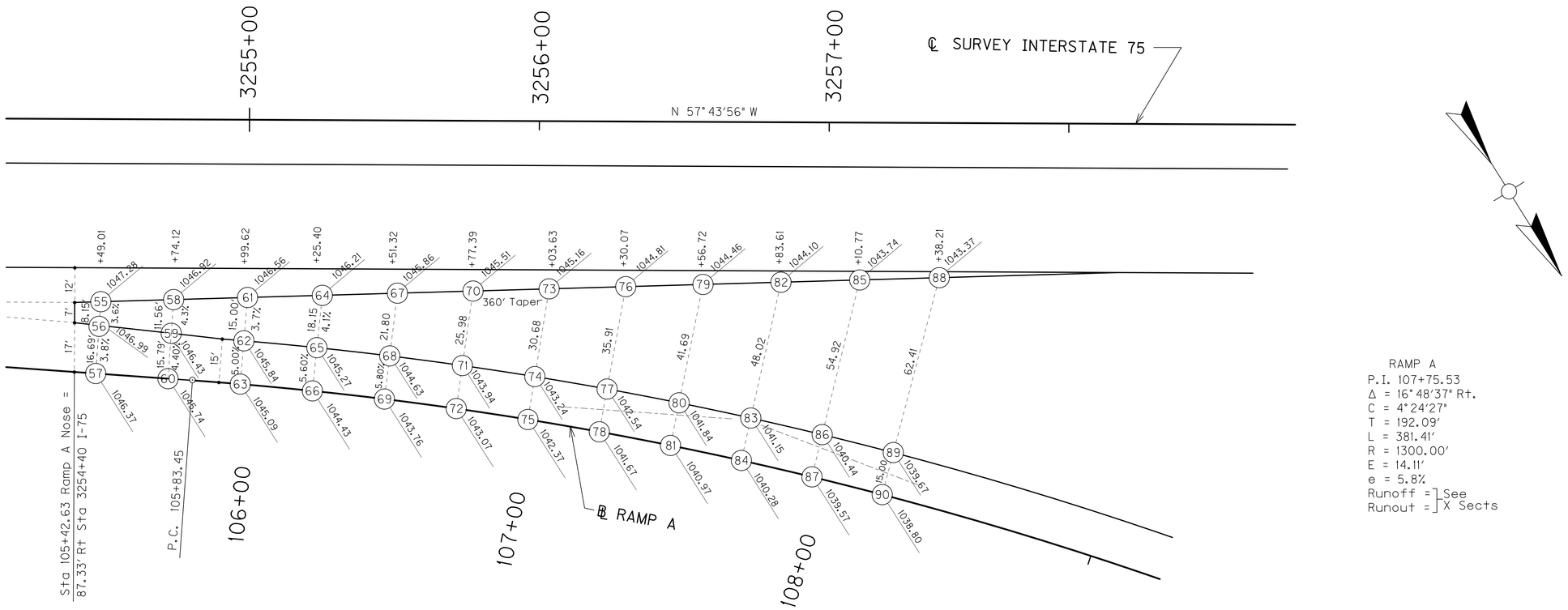




DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP A

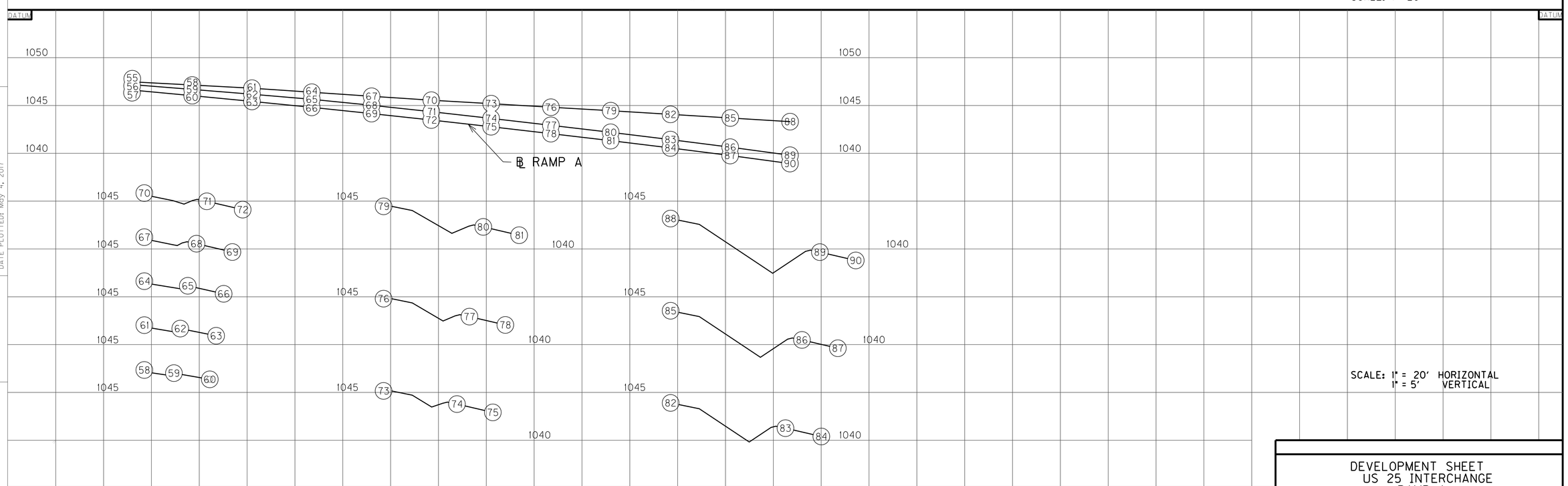
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R67T0005.DGN
USER: lstoggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R68



RAMP A
P.I. 107+75.53
Δ = 16°48'37" Rt.
C = 4°24'27"
T = 192.09'
L = 381.41'
R = 1300.00'
E = 14.11'
e = 5.8%
Runoff =] See
Runout =] X Sects

SCALE: 1"= 20'

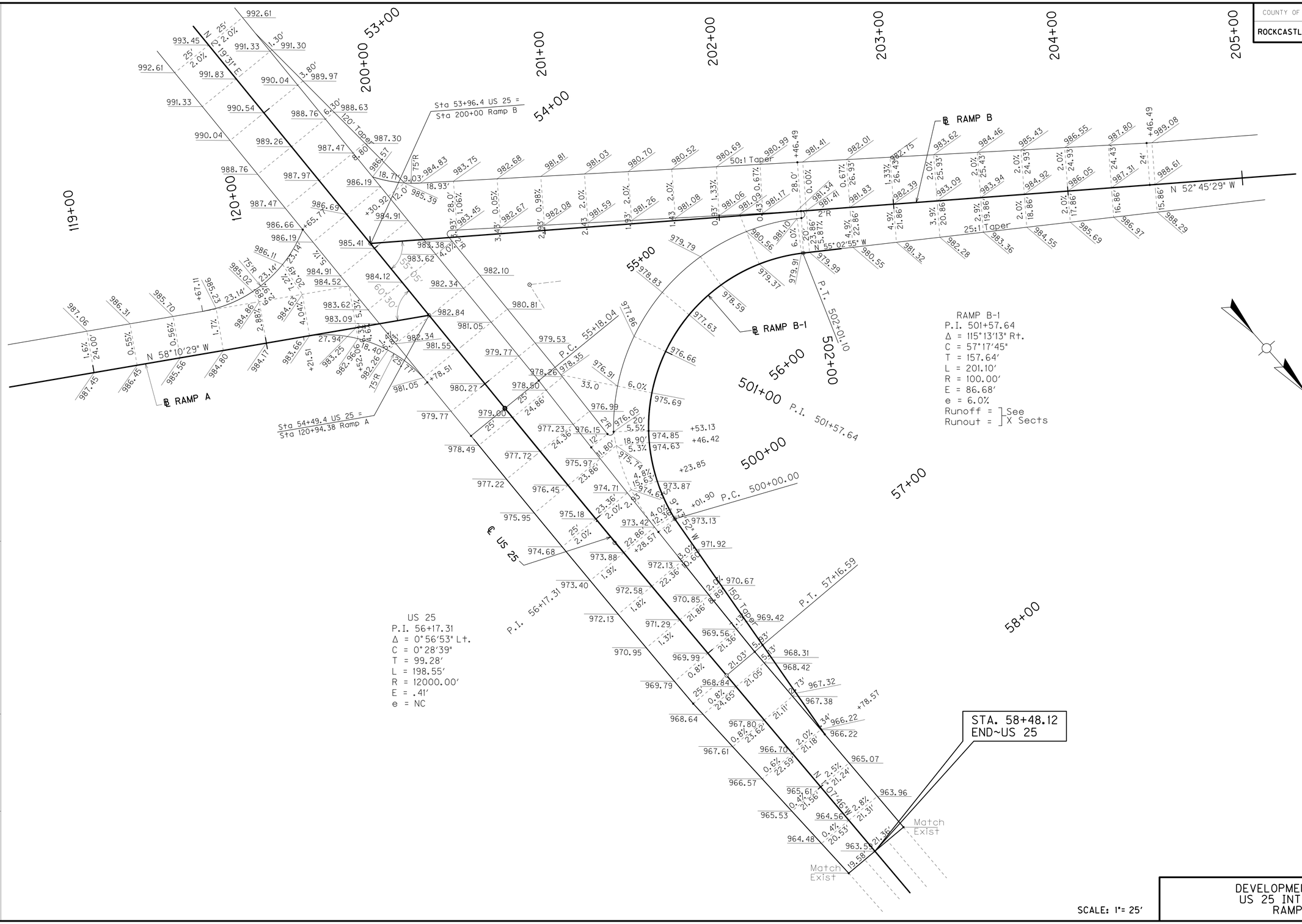


SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP A

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R6800D5.DGN
USER: jbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.9.292

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R69



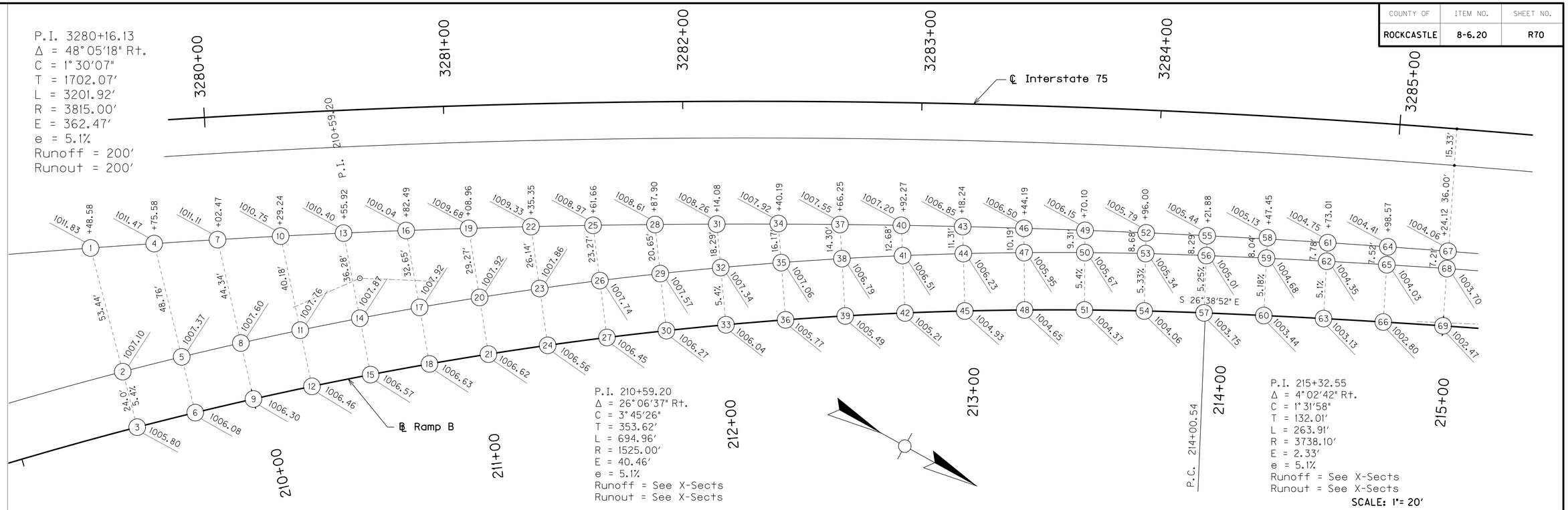
SCALE: 1"= 25'

DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP B

MicroStation v8.11.9.292 | E-SHEET NAME: | USER: Jbaker DATE PLOTTED: May 4, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0690005.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R70

P.I. 3280+16.13
Δ = 48°05'18" Rt.
C = 1°30'07"
T = 1702.07'
L = 3201.92'
R = 3815.00'
E = 362.47'
e = 5.1%
Runoff = 200'
Runout = 200'

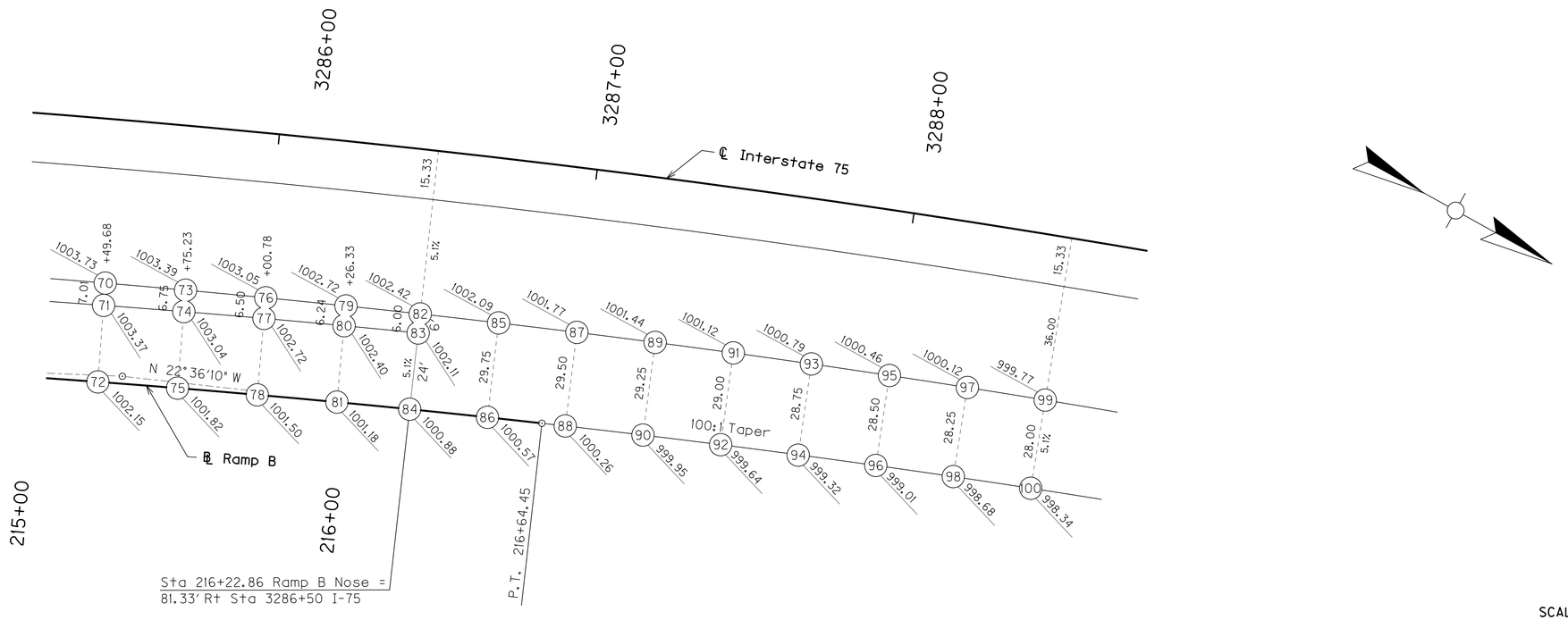


DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP B

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R70000D5.DGN
USER: TBaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

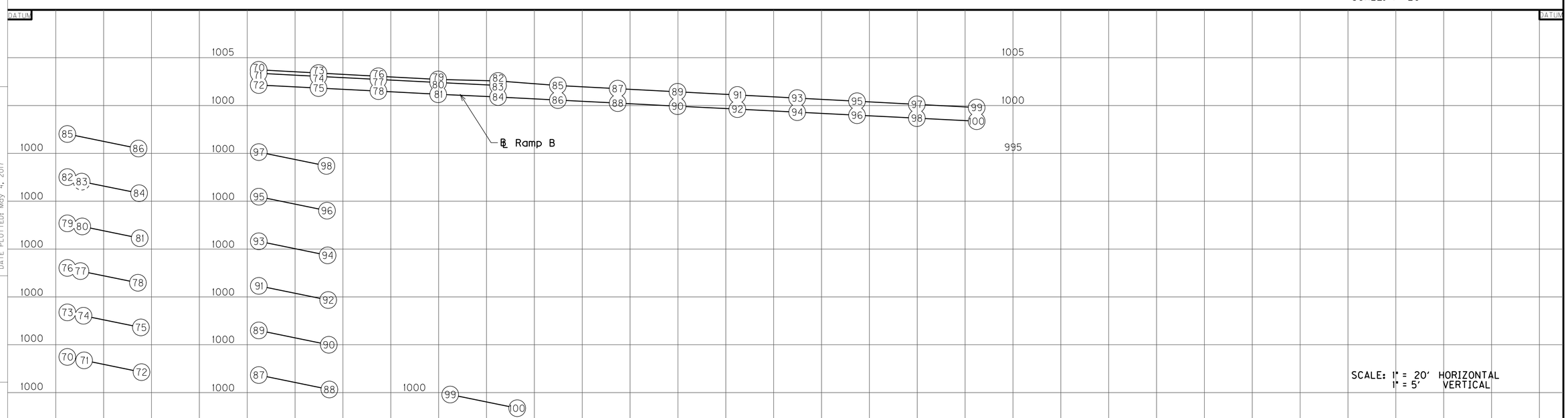
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R71

Interstate 75
P.I. 3280+16.13
Δ = 48°05'18" Rt.
C = 1°30'07"
T = 1702.07'
L = 3201.92'
R = 3815.00'
E = 362.47'
e = 5.1%
Runoff = 200'
Runout = 200'



Ramp B
P.I. 215+32.55
Δ = 4°02'42" Rt.
C = 1°31'58"
T = 132.01'
L = 263.91'
R = 3738.10'
E = 2.33'
e = 5.1%
Runoff = } See
Runout = } X Sects

SCALE: 1"= 20'



SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

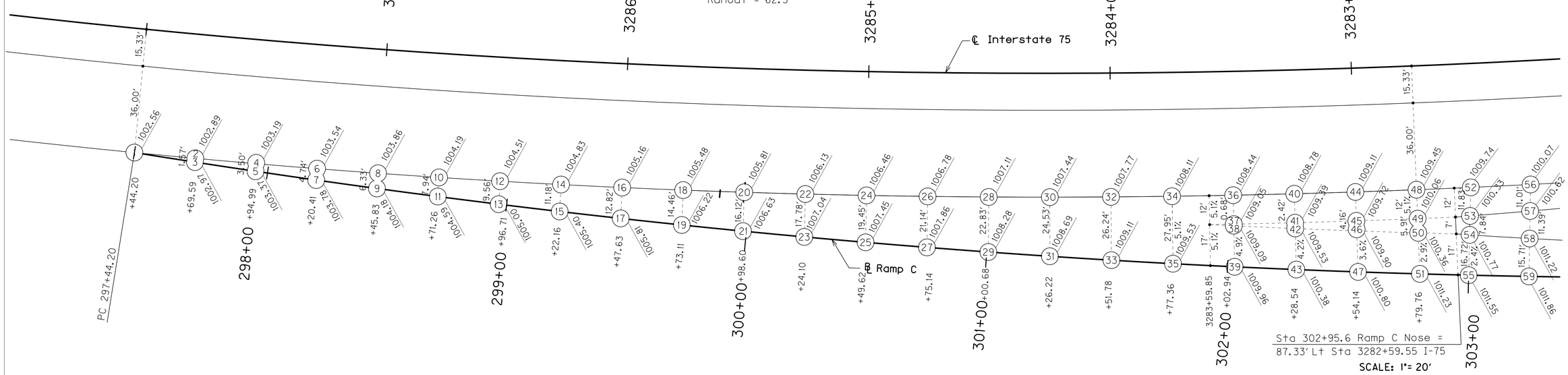
DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP B

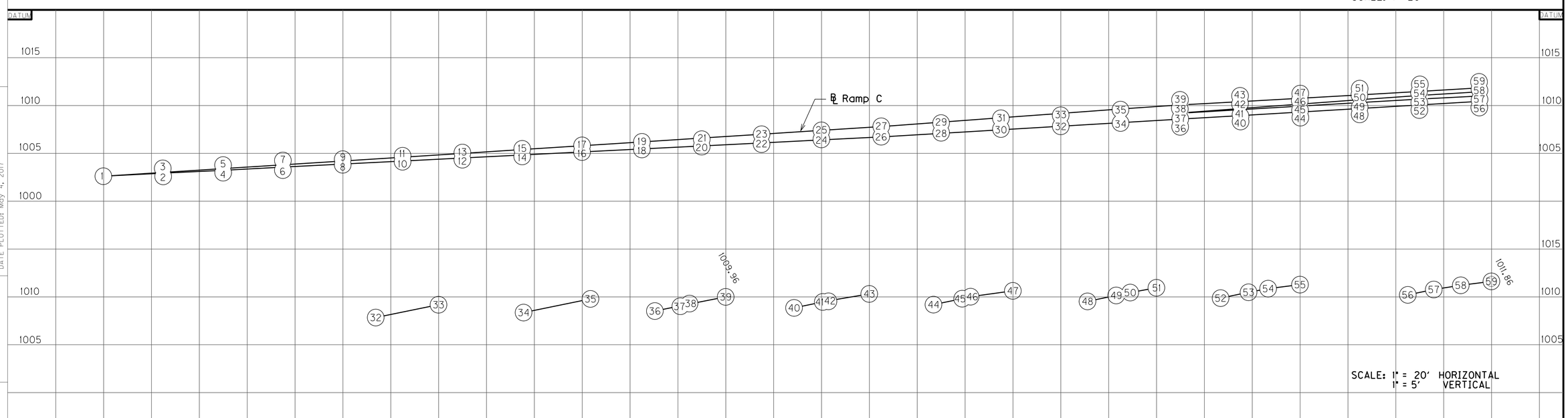
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R071000S.DGN
USER: TBaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R72

Ramp C
P.I. 302+35.65
Δ = 13°40'14" Lt.
C = 1°23'51"
T = 491.45
L = 978.23'
R = 4100.00'
E = 29.35'
e = 2.4%
Runoff = 75'
Runout = 62.5'

Interstate 75
Δ = 48°05'18" Rt.
C = 1°30'07"
T = 1702.07'
L = 3201.92'
R = 3815.00'
E = 362.47'
e = 5.1%
Runoff = 250'
Runout = 98.04'





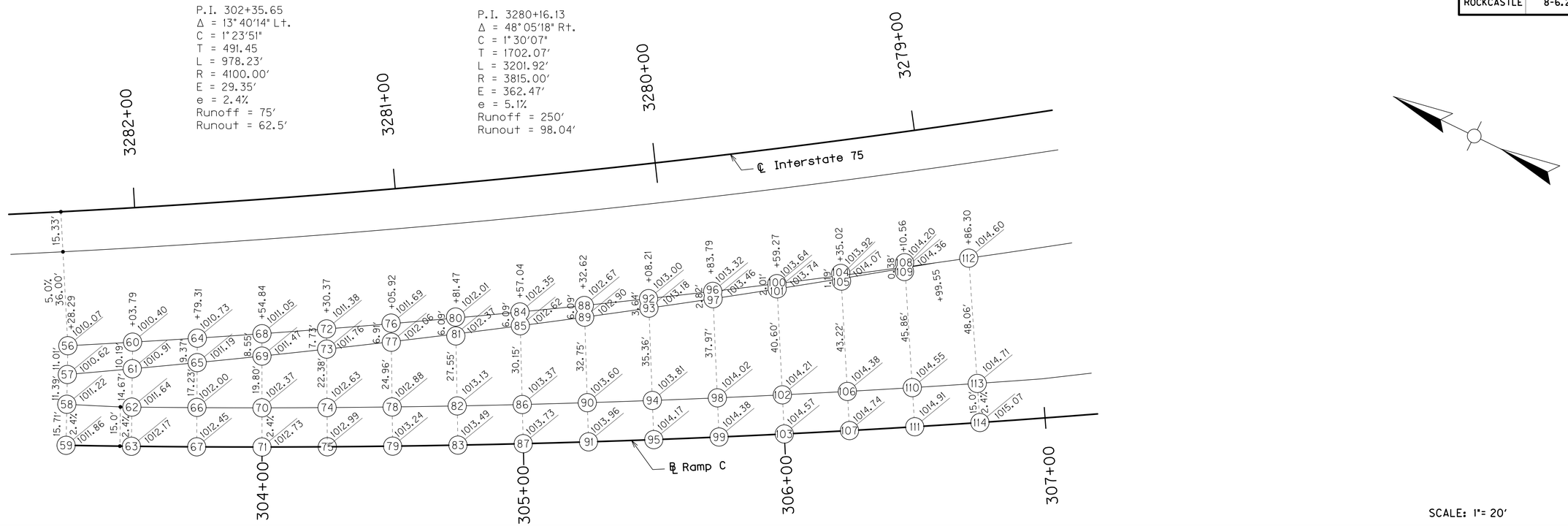
DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP C

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0720005.DGN
USER: TBaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

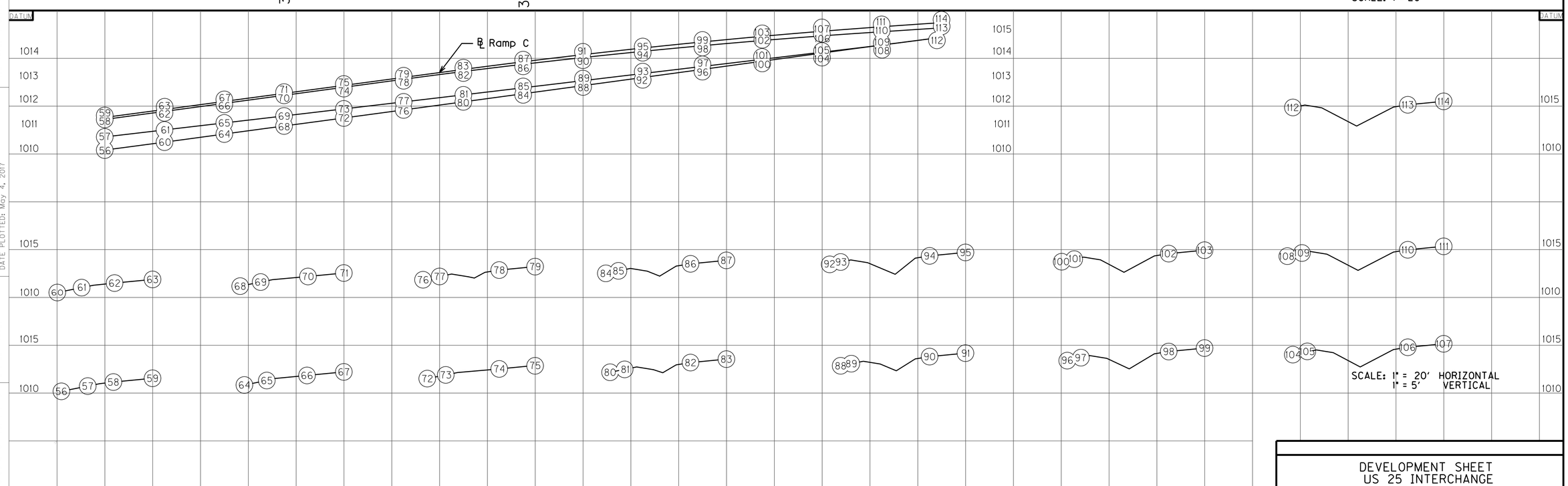
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R73

P.I. 302+35.65
Δ = 13°40'14" Lt.
C = 1°23'51"
T = 491.45
L = 978.23'
R = 4100.00'
E = 29.35'
e = 2.4%
Runoff = 75'
Runout = 62.5'

P.I. 3280+16.13
Δ = 48°05'18" Rt.
C = 1°30'07"
T = 1702.07'
L = 3201.92'
R = 3815.00'
E = 362.47'
e = 5.1%
Runoff = 250'
Runout = 98.04'



SCALE: 1"= 20'

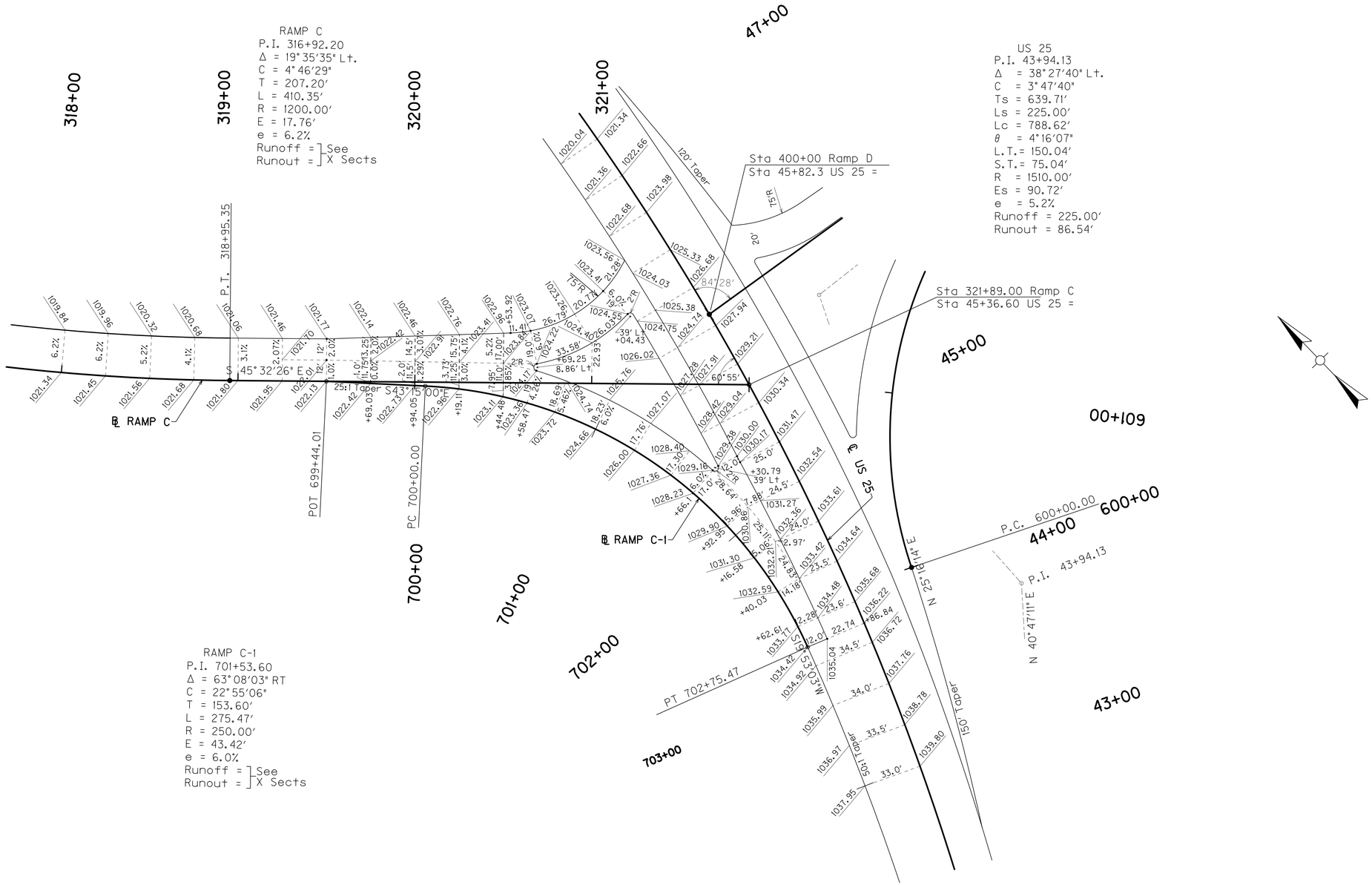


SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP C

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0730005.DGN
USER: TBaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R74



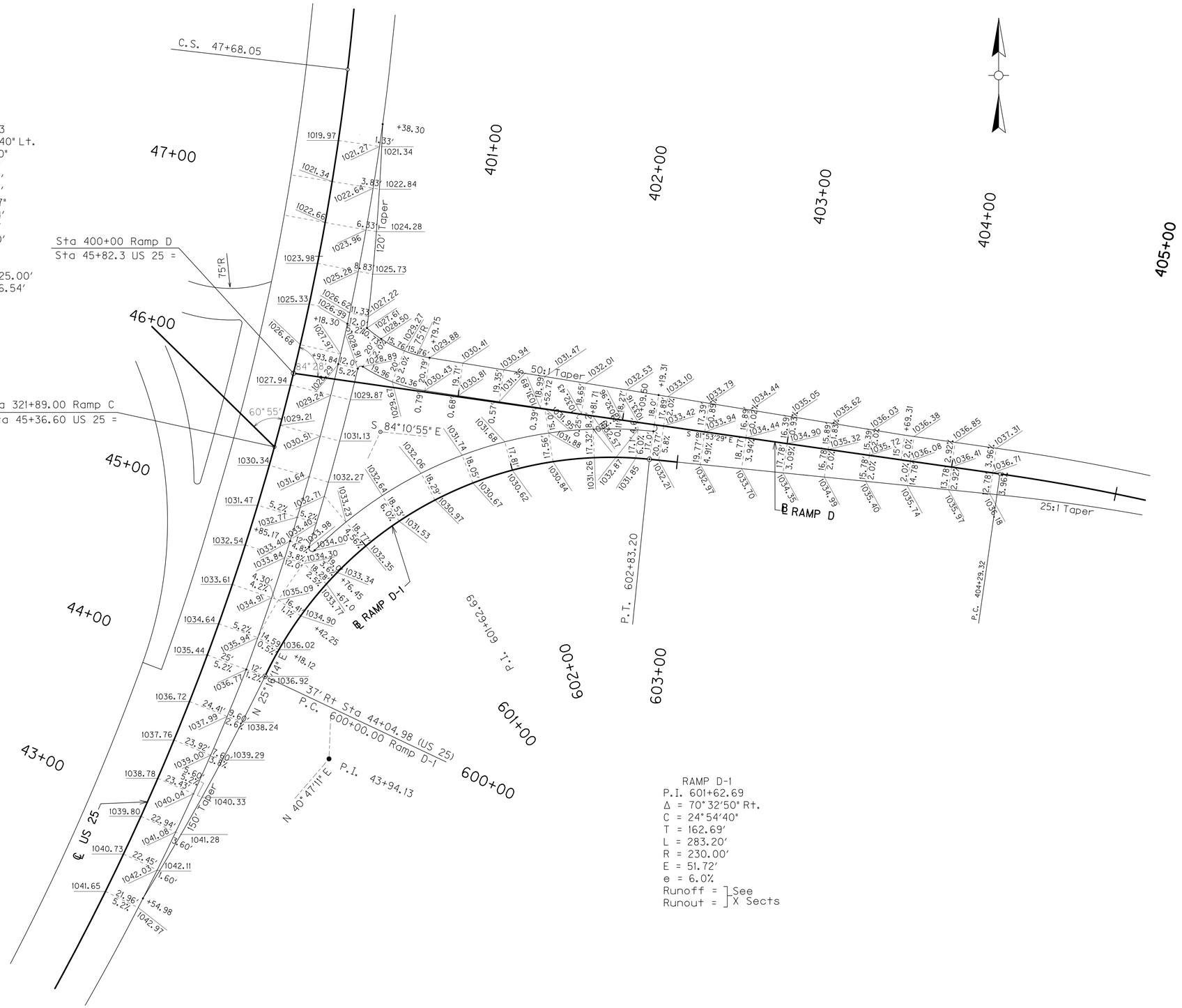
RAMP C-1
P.I. 701+53.60
Δ = 63°08'03" RT
C = 22°55'06"
T = 153.60'
L = 275.47'
R = 250.00'
E = 43.42'
e = 6.0%
Runoff = See
Runout = X Sects

SCALE: 1"= 30'

DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP C

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0740005.DGN
USER: tbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R75



RAMP D-1
P.I. 601+62.69
Δ = 70°32'50" Rt.
C = 24°54'40"
T = 162.69'
L = 283.20'
R = 230.00'
E = 51.72'
e = 6.0%
Runoff =] See
Runout =] X Sects

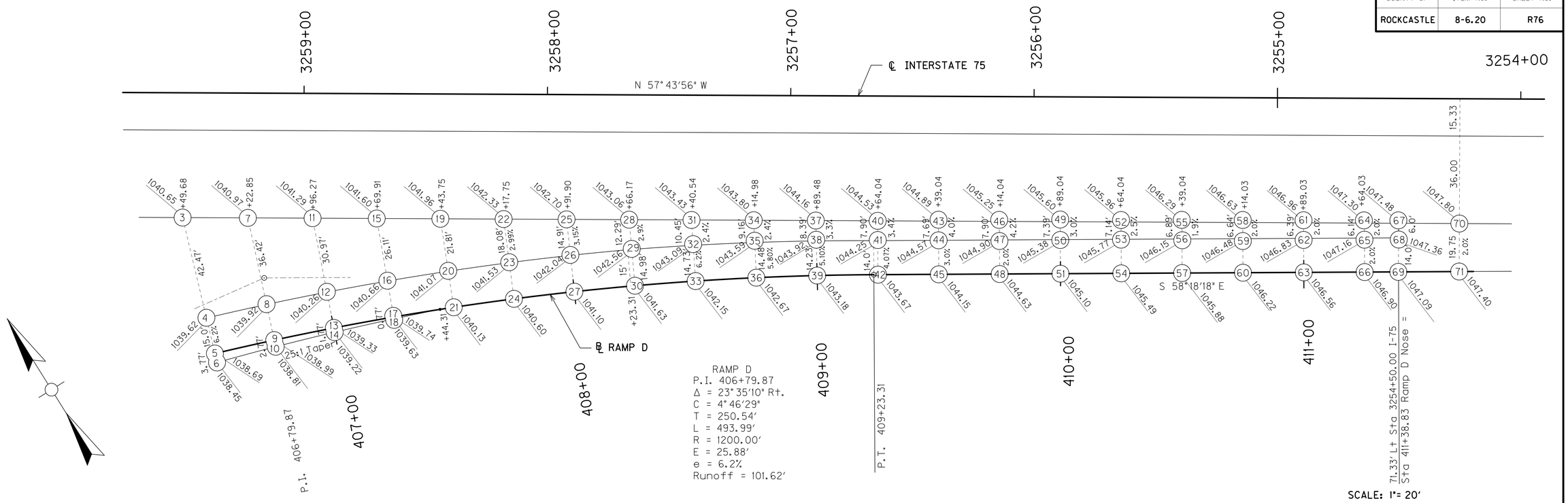
RAMP D
P.I. 406+79.87
Δ = 23°35'10" Rt.
C = 4°46'29"
T = 250.54'
L = 493.99'
R = 1200.00'
E = 25.88'
e = 6.2%
Runoff = 101.62'

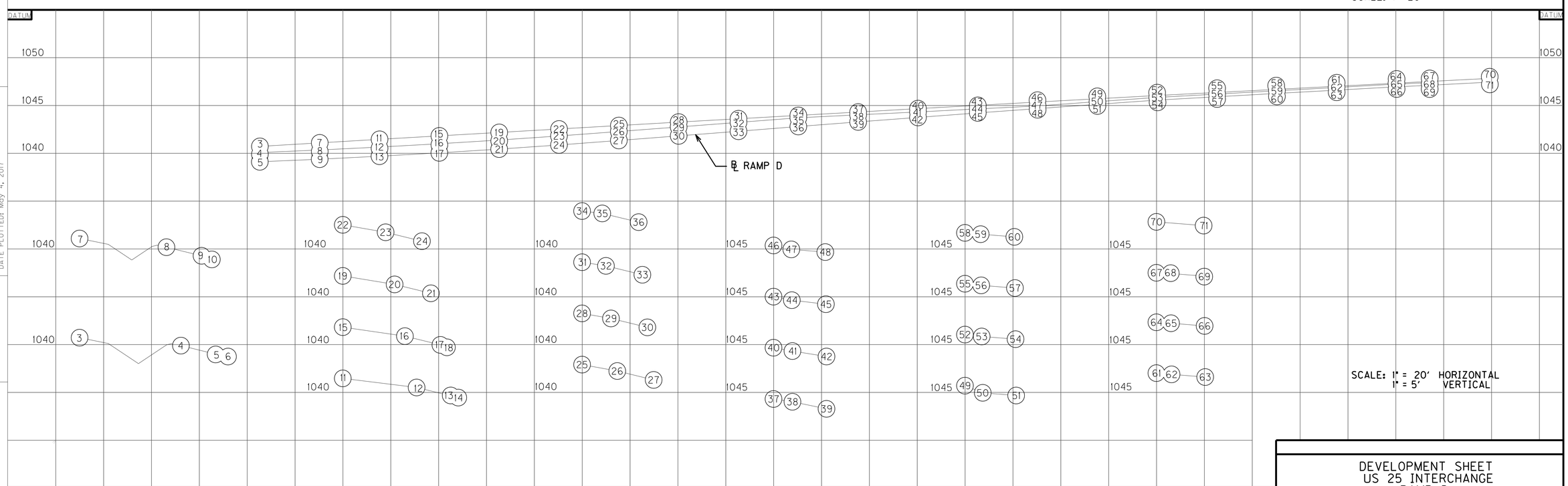
SCALE: 1"= 30'

DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP D

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: tbaker DATE PLOTTED: May 4, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0750005.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R76

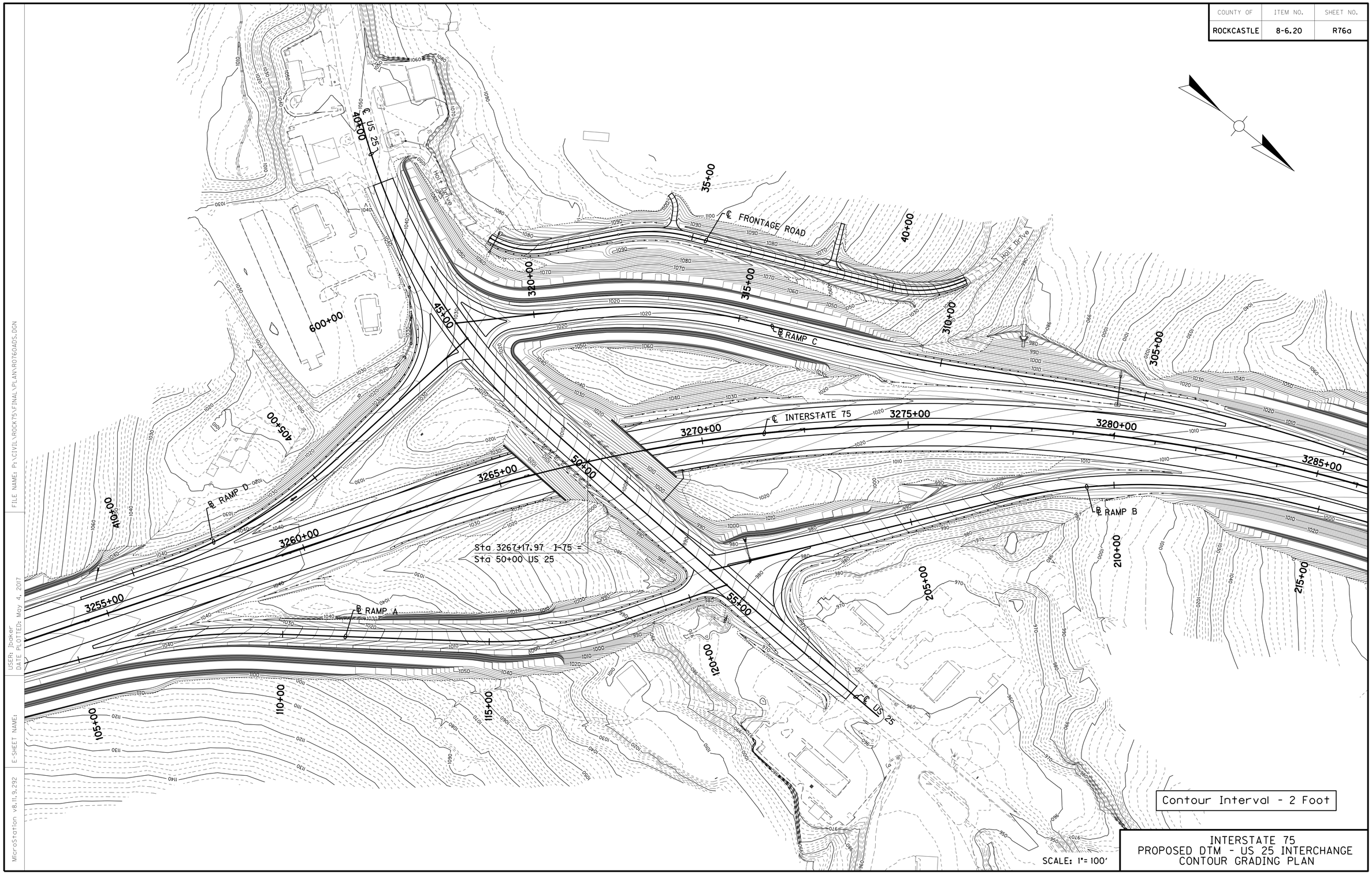




DEVELOPMENT SHEET
US 25 INTERCHANGE
RAMP D

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R076ODS.DGN
USER: TBaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

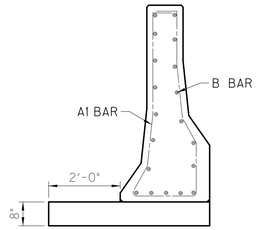
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R76a



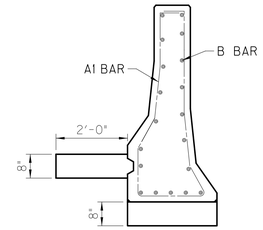
INTERSTATE 75
PROPOSED DTM - US 25 INTERCHANGE
CONTOUR GRADING PLAN

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0760ADS.DGN
USER: jbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.9.292

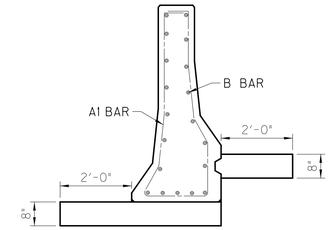
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-06.20	R76b



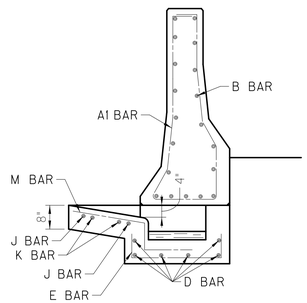
SECTION OF WALL
OUTSIDE OF INLET
THROAT LIMITS



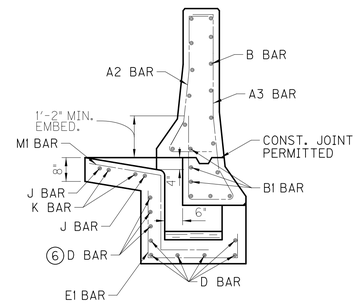
SECTION OF WALL
OUTSIDE OF INLET
THROAT LIMITS



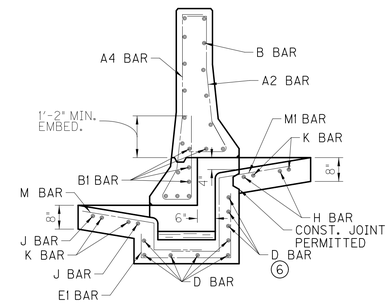
SECTION OF WALL
OUTSIDE OF INLET
THROAT LIMITS



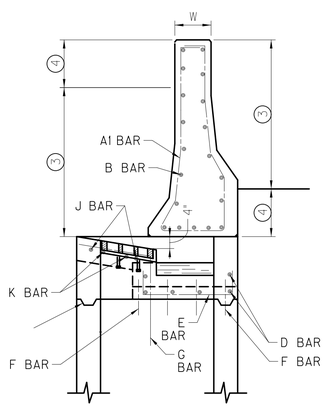
SECTION C-C



SECTION C-C

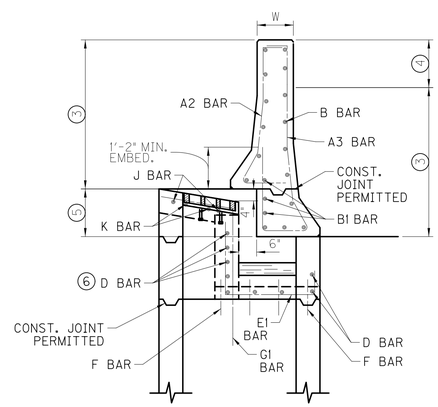


SECTION C-C



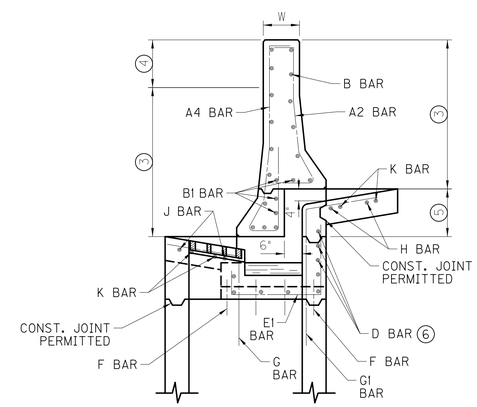
SECTION B-B

OPENING ON LOW SIDE
OF INLET (⊕=1L)



SECTION B-B

OPENING ON HIGH SIDE
OF INLET (⊕=1H)



SECTION B-B

OPENING ON BOTH SIDES
OF INLET (⊕=2)

NOTES:

1. FOR CONCRETE MEDIAN BARRIER BOX INLETS THAT ARE CONSTRUCTED WITH ASYMMETRICAL MEDIAN BARRIER WALLS. THIS DETAIL SHOWS REVISIONS TO STD. DWG. NO. RDB-230 & RDB-240 THAT ARE NECESSARY FOR AN ASYMMETRICAL CMBBI. SEE STD. DWG. NO. RDB-230 & RDB-240 FOR MORE INFORMATION AND NOTES THAT ARE NOT DUPLICATED HERE.

2. THE BID ITEM SHALL BE: ASYMMETRICAL CONCRETE MEDIAN BARRIER BOX INLET (ACMBBI) TYPE ☆ ⊗ ⊕ -50 △

   ☆ = 12 OR 14 DEPENDING ON W WIDTH

   ⊗ = A FOR SAG VERTICALS
   B FOR STRAIGHT GRADE

   ⊕ = 1H FOR OPENING ON HIGH SIDE OF BOX INLET
   1L FOR OPENING ON LOW SIDE OF BOX INLET
   2 FOR OPENING ON BOTH SIDES OF BOX INLET

   "-50" = 50" TALL WALL. NO "-50" INDICATES 34" TALL WALL.

   △ = (Y=✱), WHERE "Y" DIMENSION REPRESENTS THE DIFFERENCE IN ELEVATION BETWEEN THE GUTTERLINES ON EACH SIDE OF THE ASYMMETRICAL WALL.

3. HEIGHT OF NORMAL SYMMETRICAL BARRIER WALL, SEE ROADWAY PLANS.

4. VARIES. SEE PIPE PROFILE SHEETS FOR "Y" DIMENSION AS DESCRIBED IN NOTE 2. ADD ADDITIONAL B BARS FOR EACH 6 INCHES IN "Y" DIMENSION.

5. VARIES. SEE PIPE PROFILE SHEETS FOR "Y" DIMENSION AS DESCRIBED IN NOTE 2. ADD ADDITIONAL B1 BARS FOR EACH 6 INCHES IN "Y" DIMENSION.

6. VARIES. SEE PIPE PROFILE SHEETS FOR "Y" DIMENSION AS DESCRIBED IN NOTE 2. ADD ADDITIONAL D BAR FOR EACH 6 INCHES IN "Y" DIMENSION.

7. THIS DETAIL DEPICTS A 50" TALL WALL. DIFFERENCES FOR A 34" TALL WALL ARE SHOWN ON SHEET 1R3013.

CONCRETE MEDIAN BARRIER BOX INLET
ASYMMETRICAL WALL DETAILS (1 OF 2)

MicroStation v8.11.7.443 E-SHEET NAME: USER: tvonbehren DATE PLOTTED: August 24, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R076BD5.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-06.20	R76c

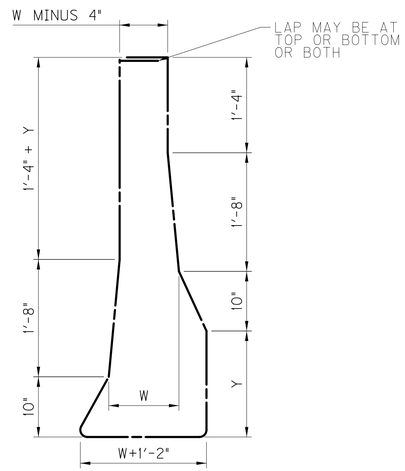
NOTES:

1. THIS DETAIL SHOWS REVISIONS TO REINFORCEMENT BARS SHOWN IN STD. DWG. NO. RDB-230 THROUGH RDB-241 THAT ARE NECESSARY FOR AN ASYMMETRICAL CMBBI.

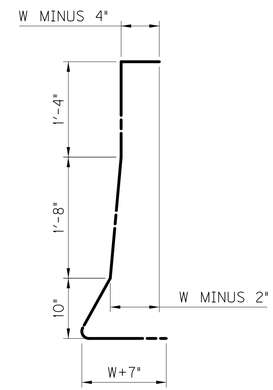
   BARS WITH A NUMERICAL SUFFIX (I.E.-A1, G1, ETC.) ARE MODIFIED FROM THE STD. DWG.

   FOR BARS WITHOUT A NUMERICAL SUFFIX (I.E.- M, E, ETC.), REFER TO THE STD. DWG. ALSO REFER TO THE STD. DWG. FOR BAR SPACING REQUIREMENTS.

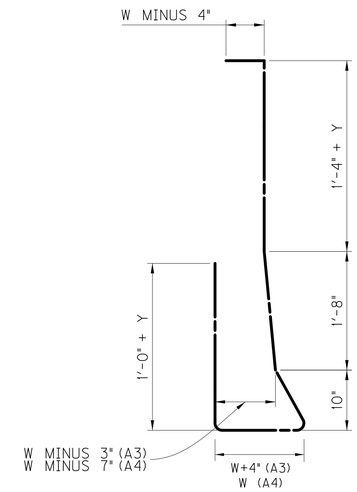
2. SEE STD. DWG. RDB-231 & RDB-241 FOR MATERIAL REQUIREMENTS, CONSTRUCTION REQUIREMENTS, AND FRAME & GRATE DETAILS.



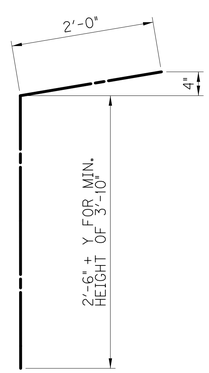
A1 BAR



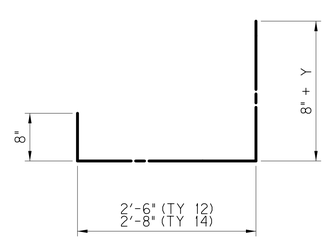
A2 BAR



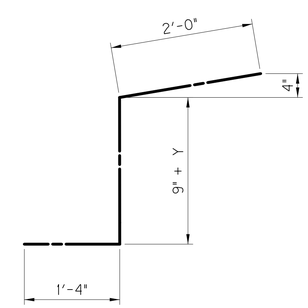
A3 & A4 BAR



G1 BAR



E1 BAR

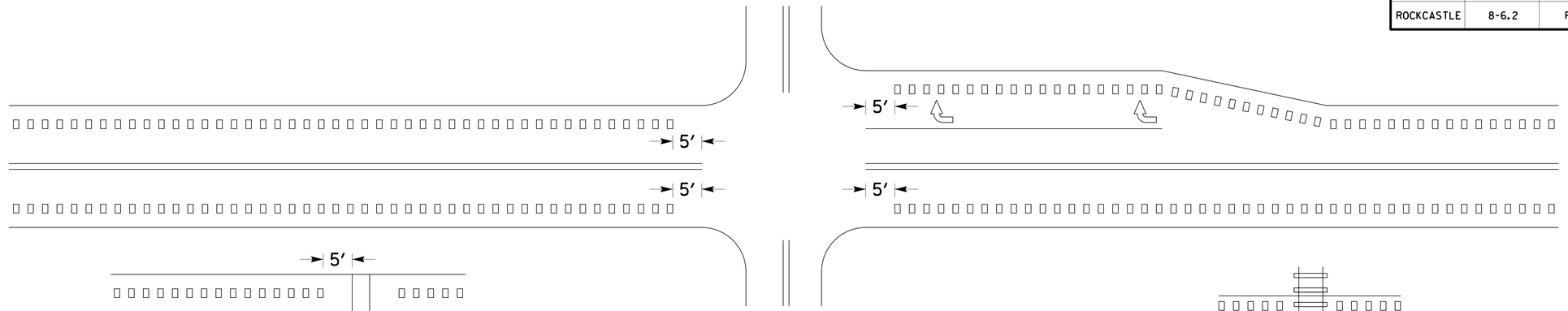


M1 BAR

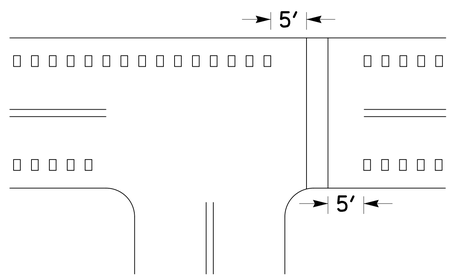
CONCRETE MEDIAN BARRIER BOX INLET
ASYMMETRICAL WALL DETAILS (2 OF 2)

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: tvonbehren DATE PLOTTED: August 24, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R076GCDS.DGN

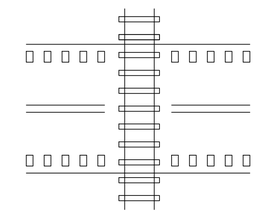
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.2	R76d



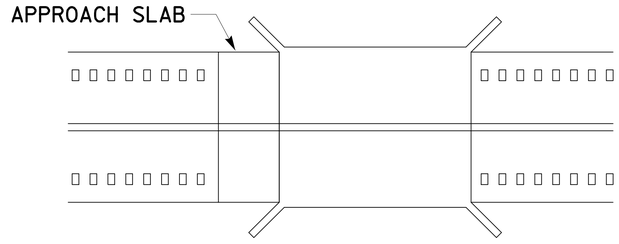
INTERSECTIONS WITH OR WITHOUT ①
RIGHT TURN LANES



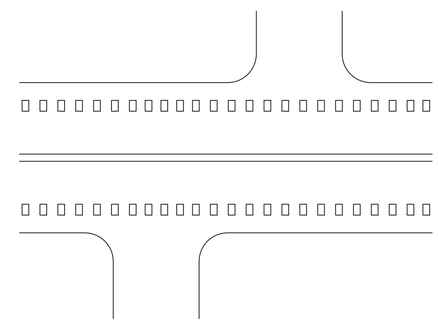
MARKED CROSSWALK ②



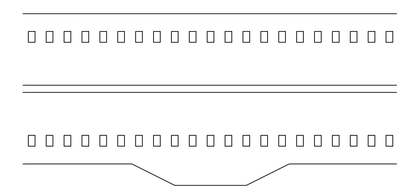
HIGHWAY-RAIL GRADE CROSSINGS ③



BRIDGE DECK/APPROACH SLAB ④



DRIVEWAYS/MINOR
COMMERCIAL ENTRANCES ⑤



MAILBOX TURNOUTS ⑥

~ NOTES ~

① RUMBLE STRIPS SHALL BE OMITTED THROUGH MAJOR INTERSECTIONS WITH, OR WITHOUT, RIGHT-TURN LANES. OMIT RUMBLE STRIPS APPROXIMATELY 5′ IN ADVANCE OF THE AREA WHERE EDGELINE PAVEMENT MARKINGS HAVE BEEN OMITTED (NORMALLY WHERE SIDE STREET RADIUS INTERSECTS MAINLINE).

② RUMBLE STRIPS SHALL NOT BE INSTALLED THROUGH MARKED CROSSWALKS. OMIT RUMBLE STRIPS APPROXIMATELY 5′ IN ADVANCE OF MARKED CROSSWALKS.

③ RUMBLE STRIPS SHALL NOT BE INSTALLED ACROSS HIGHWAY-RAIL GRADE CROSSINGS.

④ RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS OR APPROACH SLABS.

⑤ RUMBLE STRIPS SHALL BE INSTALLED THROUGH DRIVEWAYS & MINOR COMMERCIAL ENTRANCES.

⑥ RUMBLE STRIPS SHALL BE INSTALLED THROUGH MAILBOX TURNOUTS.

7. RUMBLE STRIPS SHOULD BE OMITTED WHERE THE POSTED SPEED LIMIT IS 45 MPH OR LESS.

BID ITEMS AND UNIT TO BID

EDGELINE RUMBLE STRIPS	LF
SHOULDER RUMBLE STRIPS	LF

DRAWING NOT TO SCALE

USE WITH SEPIA 006, 007, AND 008

KENTUCKY
DEPARTMENT OF HIGHWAYS

SHOULDER & EDGELINE
RUMBLE STRIP DETAILS

SUBMITTED R. Jeffrey Wolfe 11-23-16
DATE

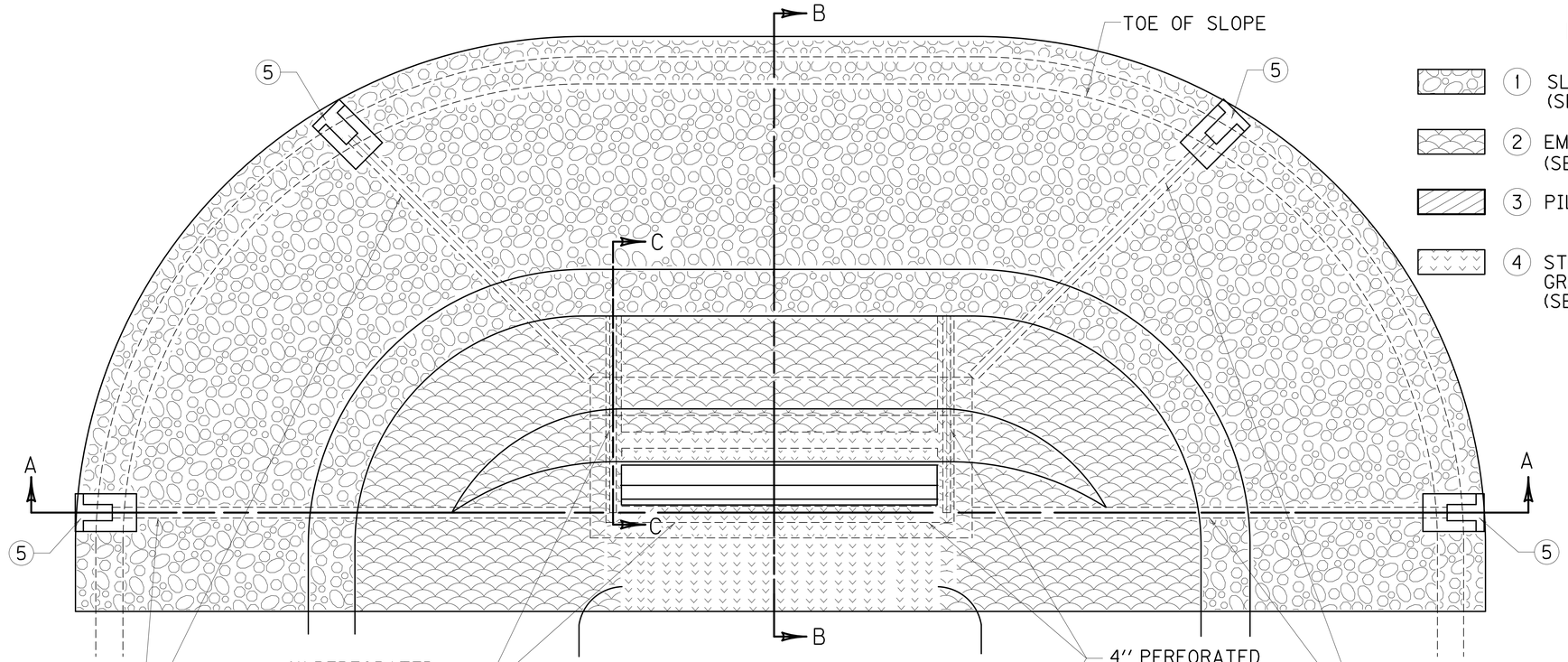
005

MicroStation v8.11.7.443 E-SHEET NAME: USER: mwilliams DATE PLOTTED: December 7, 2016 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0760DS.DGN

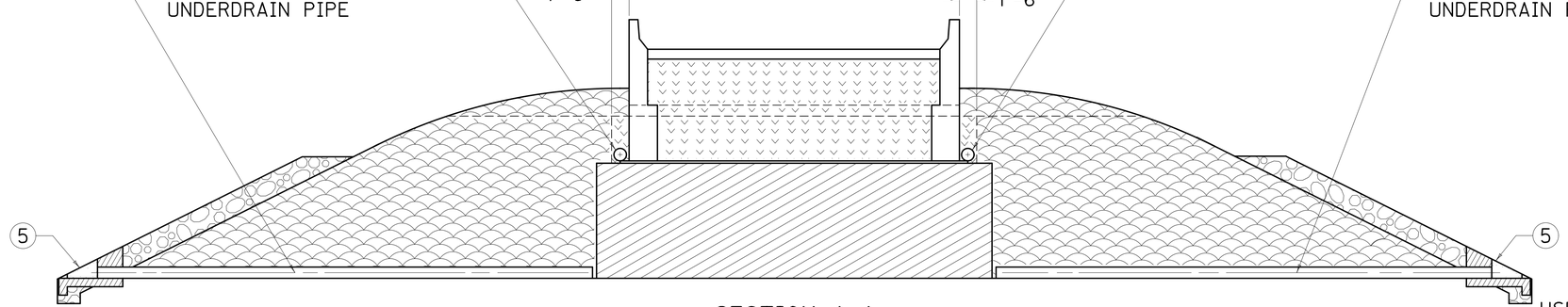
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.2	R76e

LEGEND

1. SLOPE PROTECTION (SEE BRIDGE PLANS)
2. EMBANKMENT (SEE ROADWAY PLANS)
3. PILE CORE
4. STRUCTURE GRANULAR BACKFILL (SEE BRIDGE PLANS)



PLAN VIEW



SECTION A-A

USE WITH CUR. STD. DWG. RDP-010, SEPIA 010

~ NOTES ~

THE PURPOSE OF THIS DRAWING AND CUR. SEPIA 010 IS TO DEFINE THE LIMITS OF THE FOUR MATERIALS SHOWN. FOR SIMPLICITY PURPOSES, AN END-BENT ON A ZERO DEGREE SKEW IS SHOWN. THE SAME PRINCIPLES WOULD APPLY FOR MORE VARIED STRUCTURES.

1. SLOPE PROTECTION REQUIRED WHEN AND AS NOTED ON THE PLANS.
2. GRANULAR OR ROCK EMBANKMENT REQUIRED WHEN AND AS NOTED ON THE PLANS.
3. PILE CORE IN ACCORDANCE WITH SPECIAL PROVISION NO. 69.
4. STRUCTURE GRANULAR BACKFILL REQUIRED AT ALL TIMES.
5. FOR HEADWALL CONSTRUCTION SEE CUR. STD. DWG RDP-010. (SEE ROADWAY PLANS)

KENTUCKY
DEPARTMENT OF HIGHWAYS

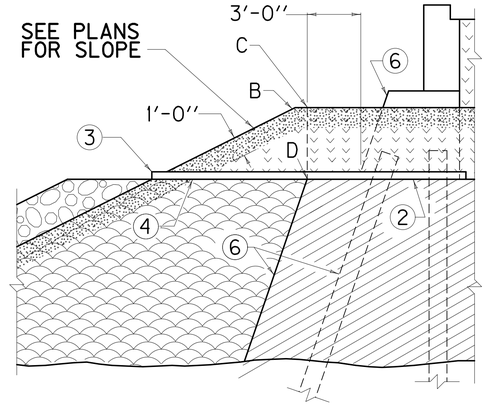
TREATMENT OF EMBANKMENTS AT END-BENTS

SUBMITTED William S. Gulick — DIRECTOR DIVISION OF DESIGN — 1-30-17 DATE

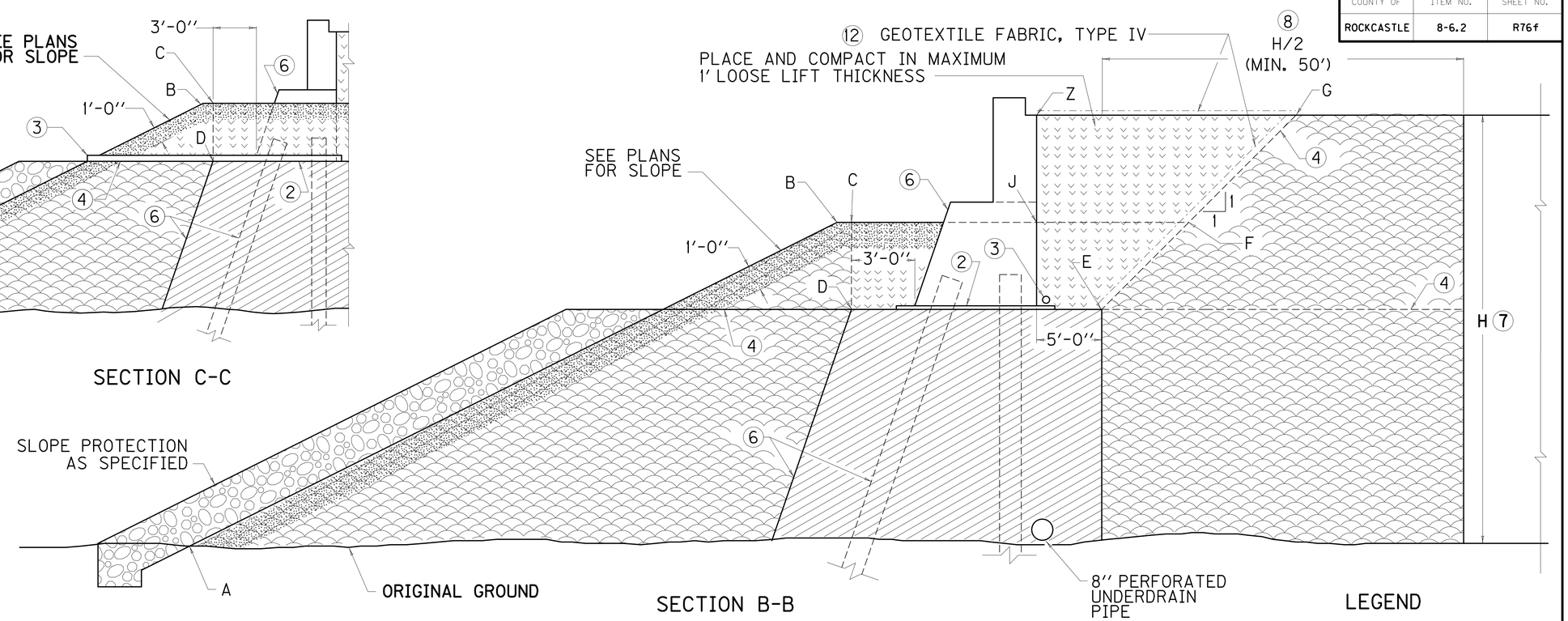
009

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R076EDS.DGN
USER: mwilliams
DATE PLOTTED: January 30, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.2	R76f



SECTION C-C



SECTION B-B

LEGEND

- SLOPE PROTECTION (SEE BRIDGE PLANS)
- PILE CORE
- STRUCTURE GRANULAR BACKFILL
- EMBANKMENT

BID ITEMS AND UNIT TO BID

GRANULAR EMBANKMENT	CUYD
STRUCTURE GRANULAR BACKFILL	CUYD

CONSTRUCTION SEQUENCE "A"

1. CONSTRUCT EMBANKMENT TO SLOPES A, B, F, AND G SUCH THAT NO UNCOMPACTED OR LOOSE MATERIAL SHALL REMAIN.
2. EXCAVATE FOR END-BENT TO C, D, E, AND F.
3. INSTALL PILES (OR OTHER FOUNDATION).
4. PLACE 2" MORTAR BED OR ANY CLASS CONCRETE.
5. CONSTRUCT CONCRETE END-BENT.
6. INSTALL 4" PERFORATED UNDERDRAIN PIPE AND BACKFILL.
7. BACKFILL TO C, D, E, F, G, Z, AND J WITH COMPACTED STRUCTURE GRANULAR BACKFILL.

1 CONSTRUCTION SEQUENCE "B"

1. CONSTRUCT EMBANKMENT TO TEMPORARY SLOPE 4.
2. INSTALL PILES (OR OTHER FOUNDATION).
3. PLACE 2" MORTAR BED OR ANY CLASS CONCRETE.
4. CONSTRUCT CONCRETE END-BENT.
5. INSTALL 4" PERFORATED UNDERDRAIN PIPE AND BACKFILL.
6. BACKFILL TO FINISHED GRADE IN ACCORDANCE WITH SPECIAL PROVISION NO. 69.

~ NOTES ~

1. CONSTRUCTION SEQUENCE "B" IS A PERMITTED ALTERNATE ONLY WHEN GRANULAR OR ROCK EMBANKMENT IS UTILIZED.
2. 2" MORTAR BED OR ANY CLASS CONCRETE.
3. 4" PERFORATED UNDERDRAIN PIPE WRAPPED WITH GEOTEXTILE FABRIC FOR DRAINING THE EXCAVATED TRENCH AND STRUCTURE GRANULAR BACKFILL.
4. ACCEPTABLE ALTERNATES FOR TEMPORARY SLOPE (CONSTRUCTION SEQUENCE "B").
5. SHADED PORTIONS AND REPRESENT LIMITS OF NON-ERODIBLE GRANULAR EMBANKMENT IN ACCORDANCE WITH SPECIAL PROVISION NO. 69.
6. SLOPES ARE EQUAL.
7. "H" = EMBANKMENT HEIGHT MEASURED FROM SUBGRADE ELEVATION AT POINT Z TO THE LOWEST ELEVATION AT THE TOE OF THE SLOPE.
8. LIMITS OF EMBANKMENT CONSTRUCTION (H/2 OR 50' MIN.) REQUIRING 2' MAXIMUM LIFT THICKNESS FOR GRANULAR OR ROCK EMBANKMENTS.
9. SEE CURRENT SPECIAL PROVISION NO. 69 FOR CONSTRUCTION AND MATERIAL REQUIREMENTS, METHOD OF MEASUREMENT AND BASIS OF PAYMENT.
10. STRUCTURE GRANULAR BACKFILL PLACED AS A COMPLETE SEPARATE OPERATION AFTER CONSTRUCTION OF ALL OTHER EMBANKMENT.
11. *NO INDIVIDUAL FRAGMENTS LARGER THAN 4 INCHES IN ANY DIMENSION PERMITTED WITHIN 3'-0" OF THE STRUCTURE.*
12. PLACE GEOTEXTILE FABRIC, TYPE IV PRIOR TO PLACING STRUCTURE GRANULAR BACKFILL AND AGGREGATE BASE COURSE.

USE WITH SEPIA 009

KENTUCKY
DEPARTMENT OF HIGHWAYS

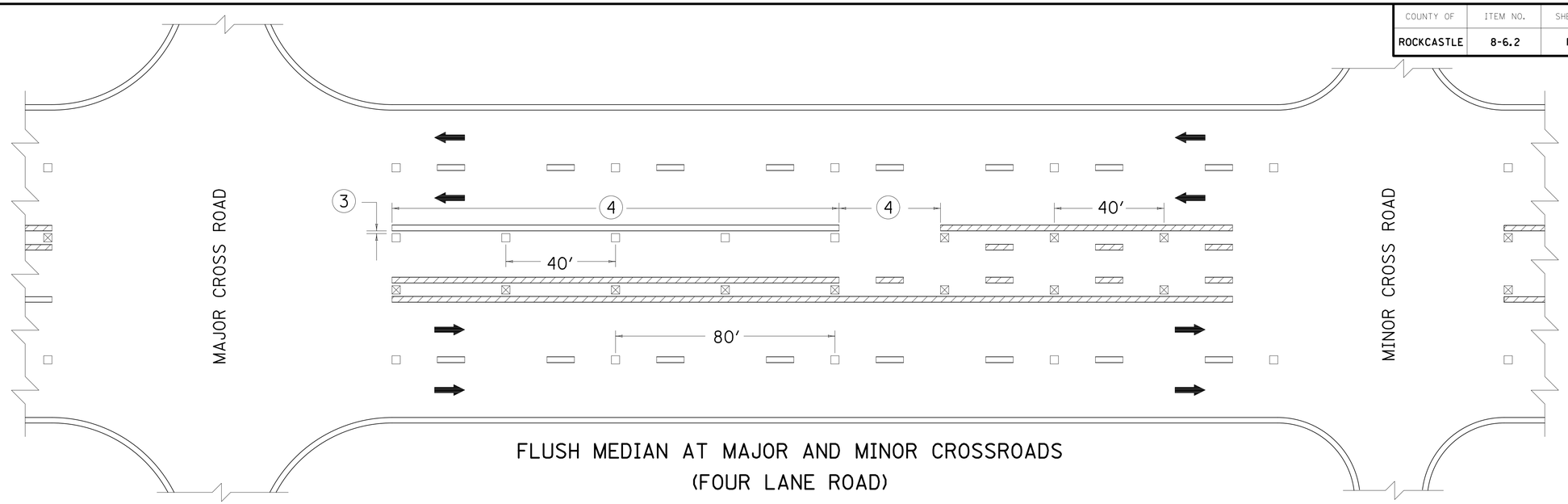
TREATMENT OF EMBANKMENTS AT END-BENTS - DETAILS

SUBMITTED William S. Gullet 1-30-17
DATE

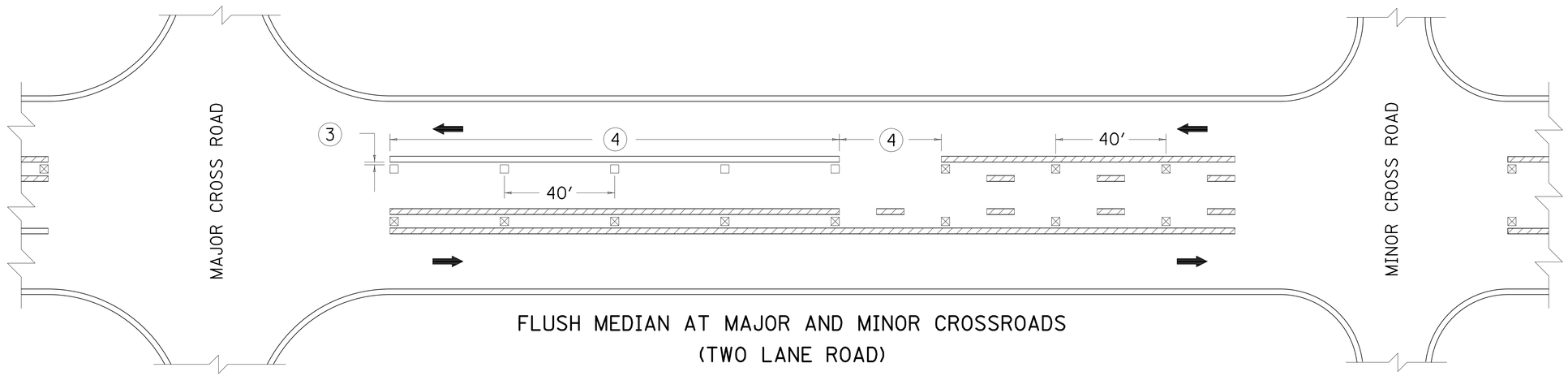
010

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R076GFDS.DGN
USER: mwilliams
DATE PLOTTED: January 30, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.2	R76g



FLUSH MEDIAN AT MAJOR AND MINOR CROSSROADS
(FOUR LANE ROAD)



FLUSH MEDIAN AT MAJOR AND MINOR CROSSROADS
(TWO LANE ROAD)

~ NOTES ~

1. MARKERS INSTALLED AT DOUBLE YELLOW CENTERLINES SHALL BE PLACED BETWEEN THE TWO LINES.
2. MARKERS INSTALLED ALONG LANE LINES OR DASHED YELLOW CENTERLINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.

(3) MARKERS INSTALLED ALONG EDGE LINES SHALL BE PLACED SO THAT THE NEAR EDGE OF THE CASTING/GROOVE IS NO MORE THAN 1" FROM THE NEAR EDGE OF THE LINE.

(4) LENGTH TO BE DETERMINED ON A PROJECT BY PROJECT BASIS.

5. MARKERS SHALL NOT BE INSTALLED ON TOP OF THE PAVEMENT JOINT. OFFSET MARKERS A MINIMUM OF 2" FROM THE PAVEMENT JOINT. ENSURE THAT THE FINISHED LINE OF MARKERS IS STRAIGHT WITH MINIMAL LATERAL DEVIATION. MARKERS MAY BE ELIMINATED OR PLACEMENT ADJUSTED AT THE DISCRETION OF THE ENGINEER.

BID ITEMS AND UNIT TO BID

PAVEMENT MARKER TYPE V (B-W/R, B-Y/R, BY, MW, MY)	EACH
INLAID PAVEMENT MARKER	EACH

LEGEND

- ⊠ BI-DIRECTIONAL (YELLOW)
- □ MONO-DIRECTIONAL (WHITE)
- MARKINGS (YELLOW)
- MARKINGS (WHITE)

DRAWING NOT TO SCALE

KENTUCKY
DEPARTMENT OF HIGHWAYS

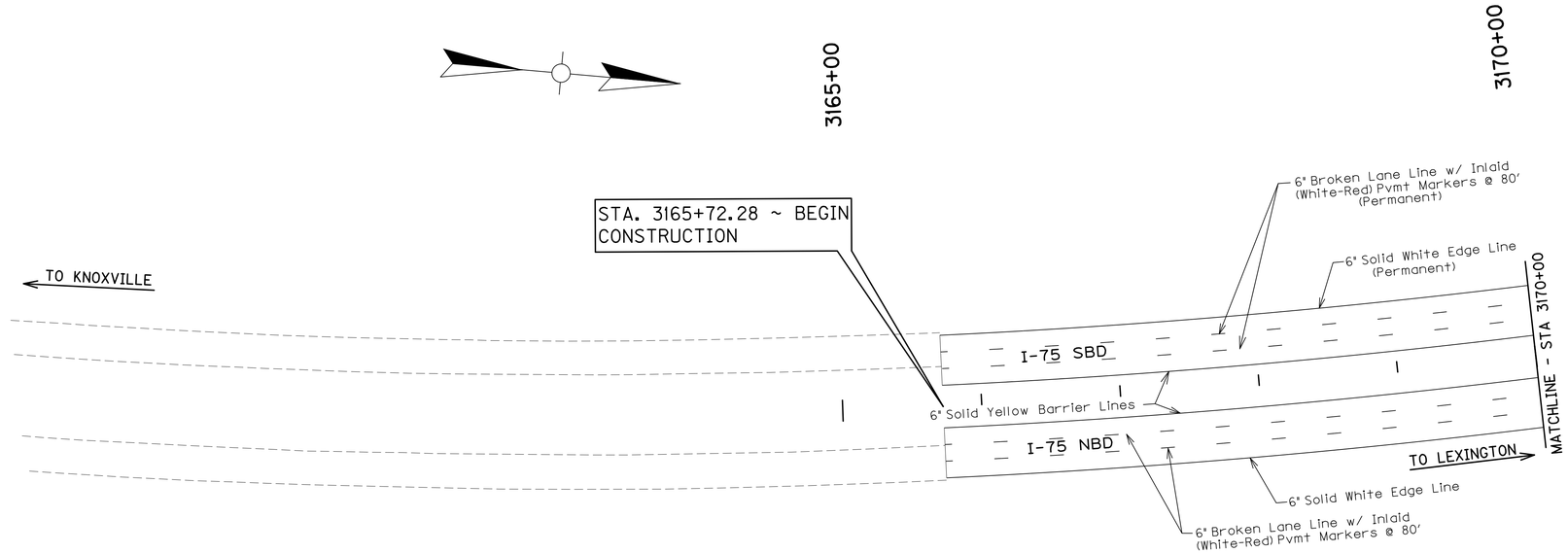
PAVEMENT MARKER
ARRANGEMENTS
TWO-WAY, LEFT TURN LANE

SUBMITTED R. Jeffrey Wolfe 1-30-17
DATE

011

MicroStation v8.11.7.443 E-SHEET NAME: USER: mwilliams DATE PLOTTED: January 31, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R076GDS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R77



PERMANENT STRIPING

ITEM	I-75 QUANTITY	UNITS
6" Solid White Edge Line	862	FT
6" Broken White Lane Line	431	FT
6" Solid Yellow Barrier Line	862	FT
Type V Bi-Directional (White-Red)	22	EA

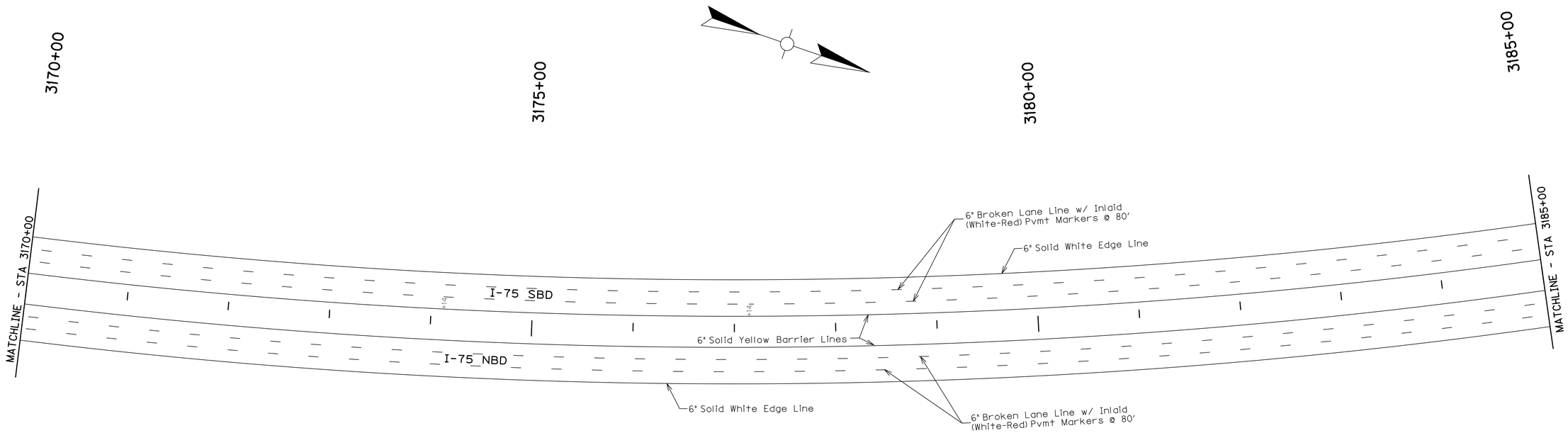
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3165+72.28 TO STA. 3170+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R077000ST.DGN
USER: tbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R78



PERMANENT STRIPING

ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1500	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	75	EA

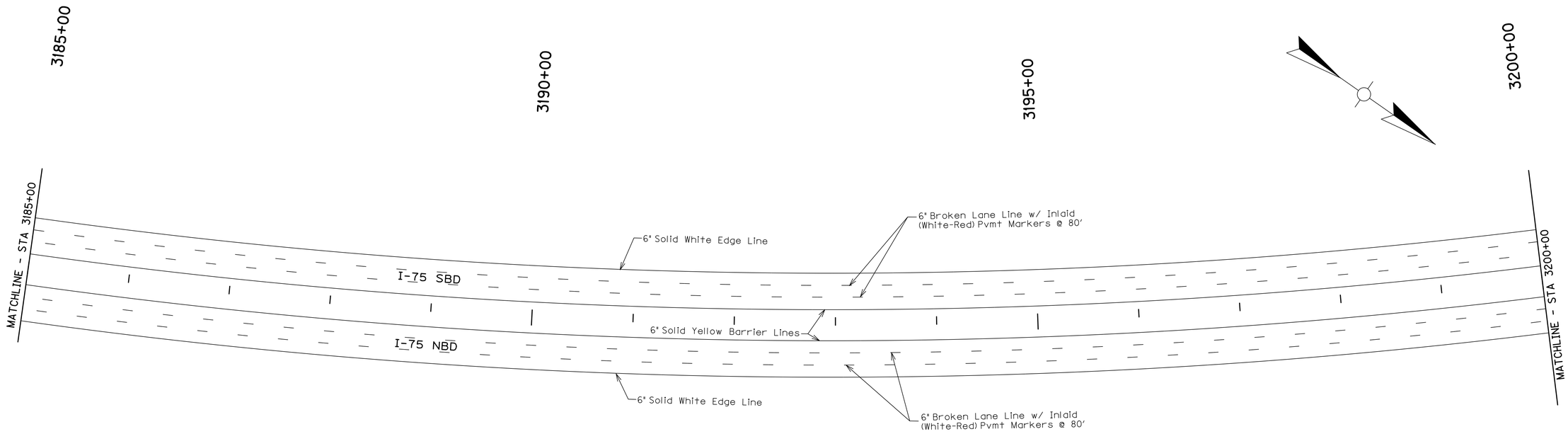
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3170+00 TO STA. 3185+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R078000ST.DGN
USER: tbaker
DATE PLOTTED: August 22, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R79



PERMANENT STRIPING

ITEM	I-75 QUANTITY	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1500	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	75	EA

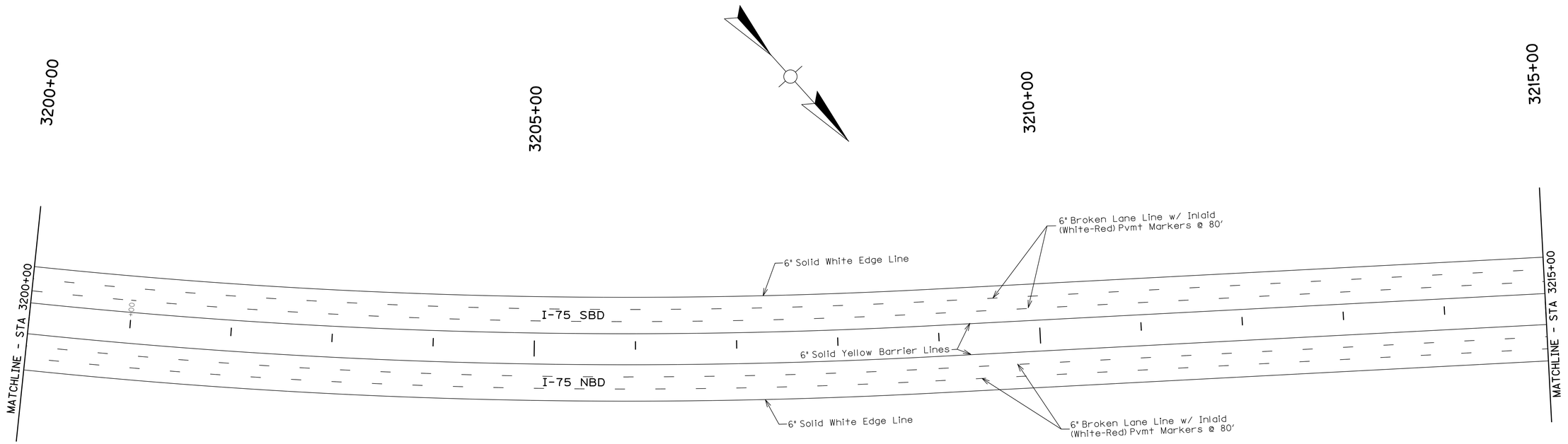
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3185+00 TO STA. 3200+00

MicroStation v8.11.7.443 E-SHEET NAME: USER: tbaker DATE PLOTTED: August 22, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R079000ST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R80



PERMANENT STRIPING

ITEM	I-75 QUANTITY	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1500	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	75	EA

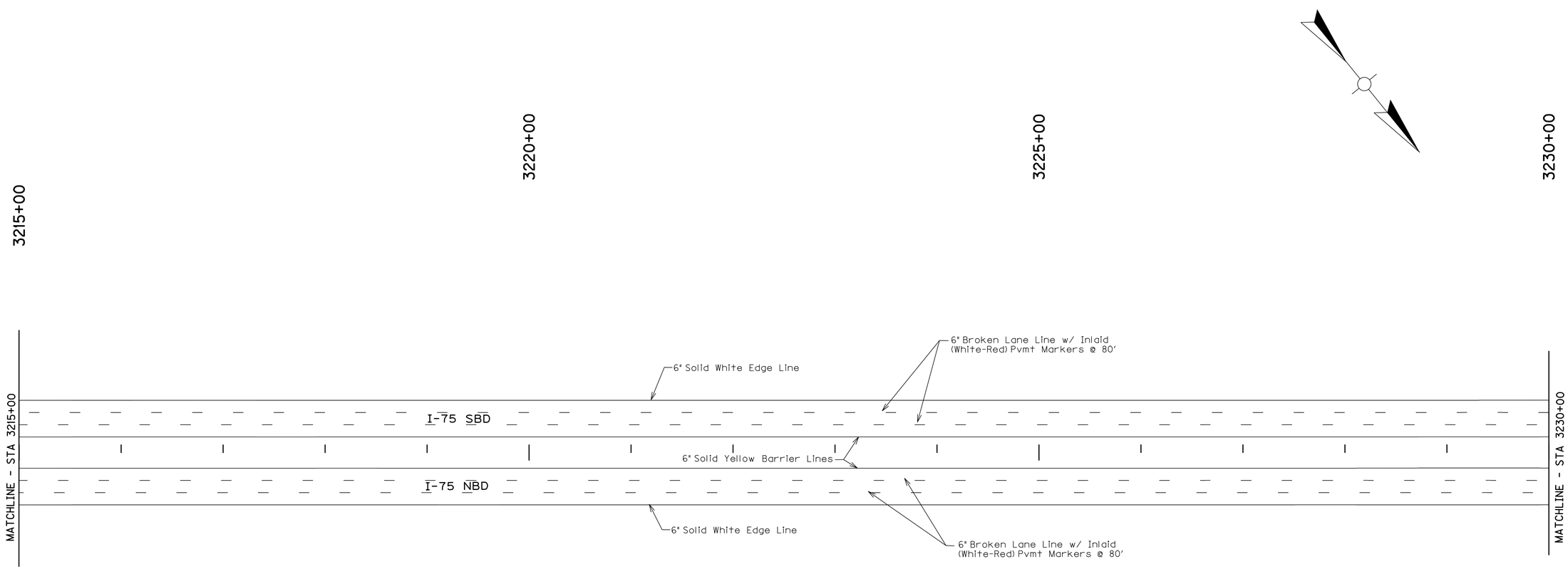
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3200+00 TO STA. 3215+00

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: tbaker DATE PLOTTED: August 22, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R80000ST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R81



ITEM	I-75 QUANTITY	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1500	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	75	EA

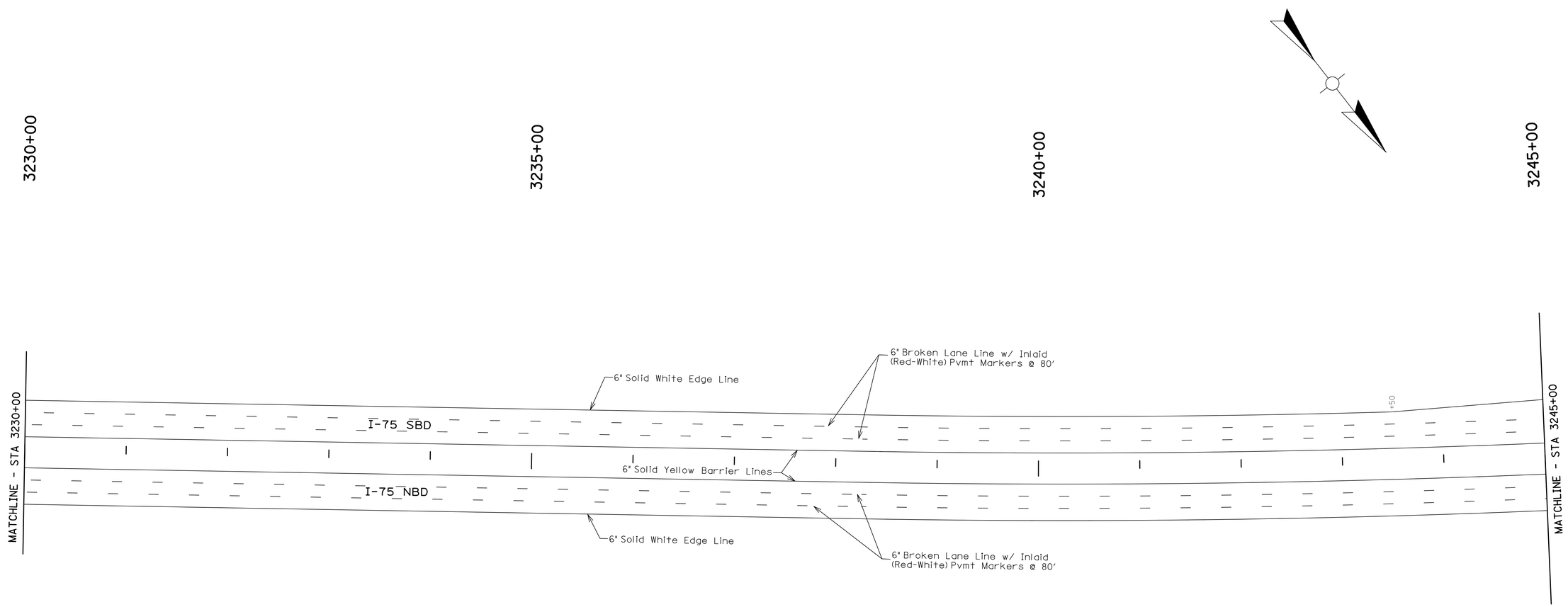
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3215+00 TO STA. 3230+00

MicroStation v8.11.7.443 E-SHEET NAME: USER: tbaker DATE PLOTTED: August 22, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0810OST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R82



ITEM	I-75 QUANTITY	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1500	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	75	EA

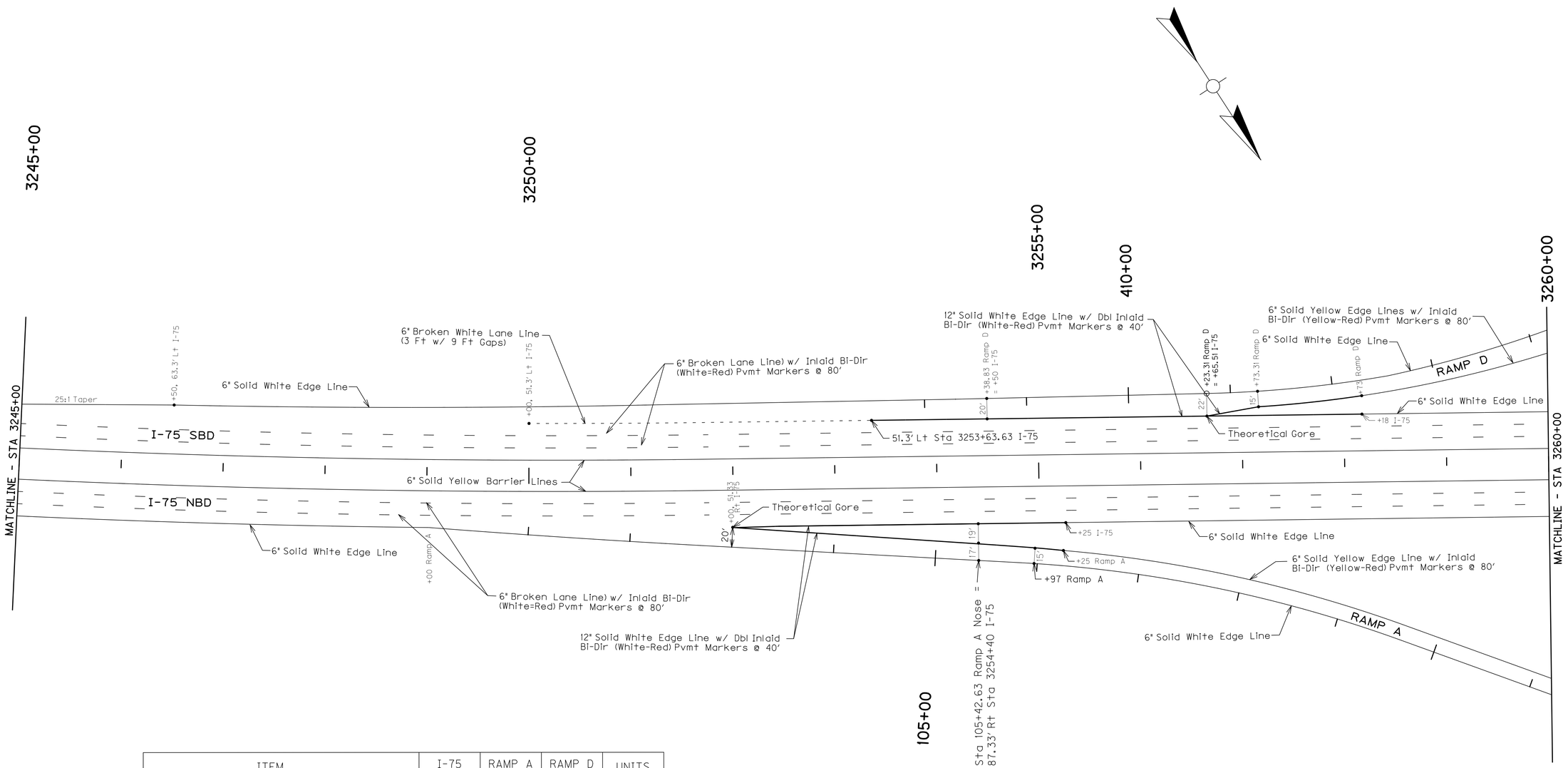
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3230+00 TO STA. 3245+00

MicroStation v8.11.7.443 | E-SHEET NAME: R08200ST | USER: tvanbehren DATE PLOTTED: October 24, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R08200ST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R83



ITEM	I-75	RAMP A	RAMP D	UNITS
6" Solid White Edge Line	2630	499	557	FT
6" Broken White Lane Line	1500			FT
6" Solid Yellow Barrier Line	3000			FT
6" Solid Yellow Edge Line		497	187	FT
12" Solid White Edge Line	1015		368	FT
6" Broken White Lane Line (3' w/ 9' Gaps)	113			FT
Type V Bi-Directional (White-Red)	129		18	EA
Type V Bi-Directional (Yellow-Red)		6	3	EA

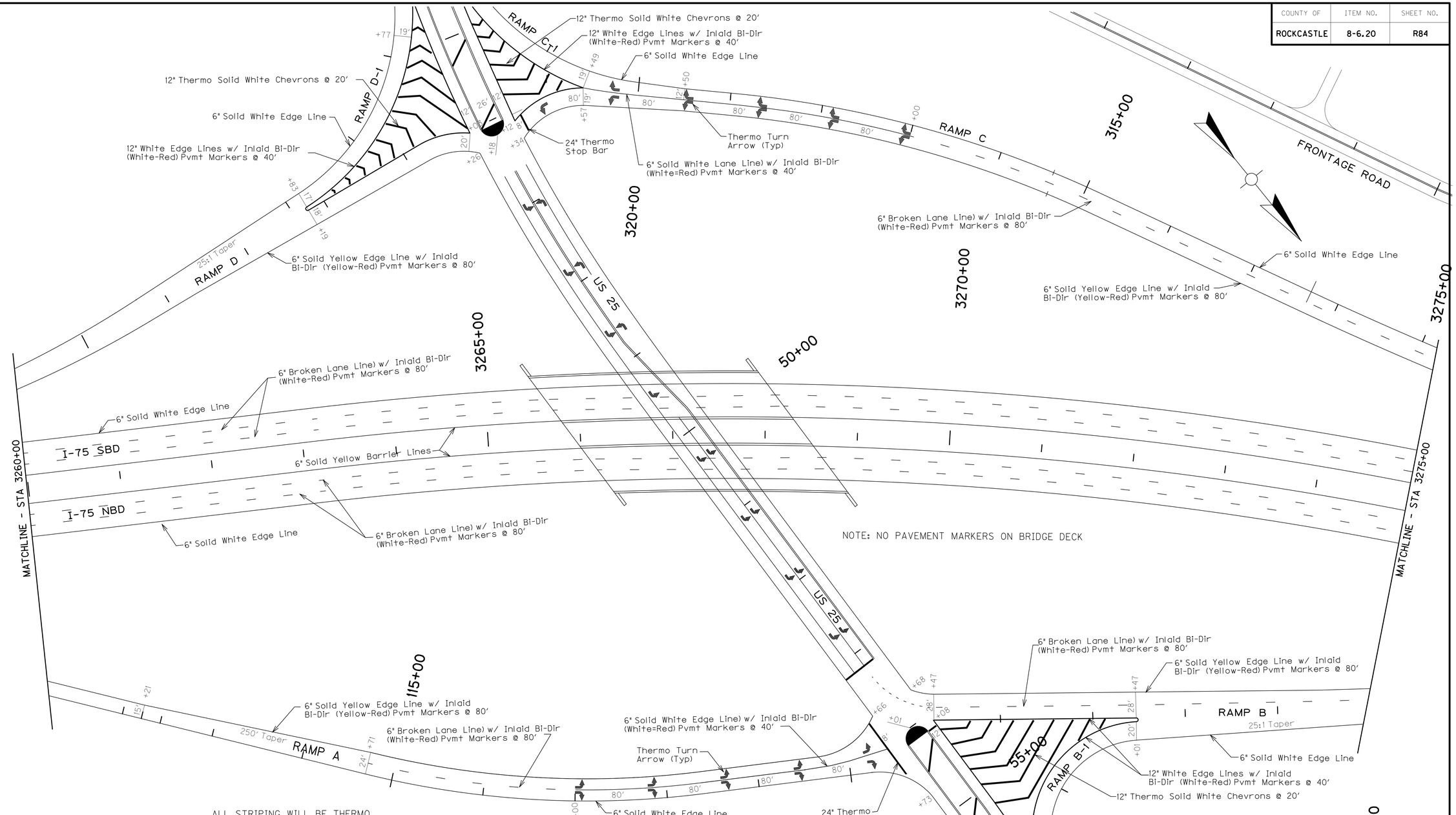
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3245+00 TO STA. 3260+00

MicroStation v8.11.7.443 | E-SHEET NAME: R8300ST | USER: tvonbehren DATE PLOTTED: October 24, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R8300ST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R84



ALL STRIPING WILL BE THERMO.

ITEM	I-75	RAMP A	RAMP B	RAMP B-1	RAMP C	RAMP C-1	RAMP D	RAMP D-1	UNITS
6" Solid White Edge Line	3000	980	247	171	1213	108	361	207	FT
6" Broken White Lane Line	1500	57	116		155				FT
6" Solid Yellow Barrier Line	3000								FT
6" Solid Yellow Edge Line		923	499		1049		571		FT
12" Solid White Edge Line			222	214	85	190	199	268	
24" Thermo Stop Bar		69			20				FT
Thermo Turn Arrows		10			11				EA
Type V Bi-Directional (White-Red)	62	10	12	5	19	5	11	10	EA
Type V Bi-Directional (Yellow-Red)		12	6		14		7		EA
12" White Chevrons @ 20"			582		236		433		SQ FT
6" Solid White Lane Line		243			357				

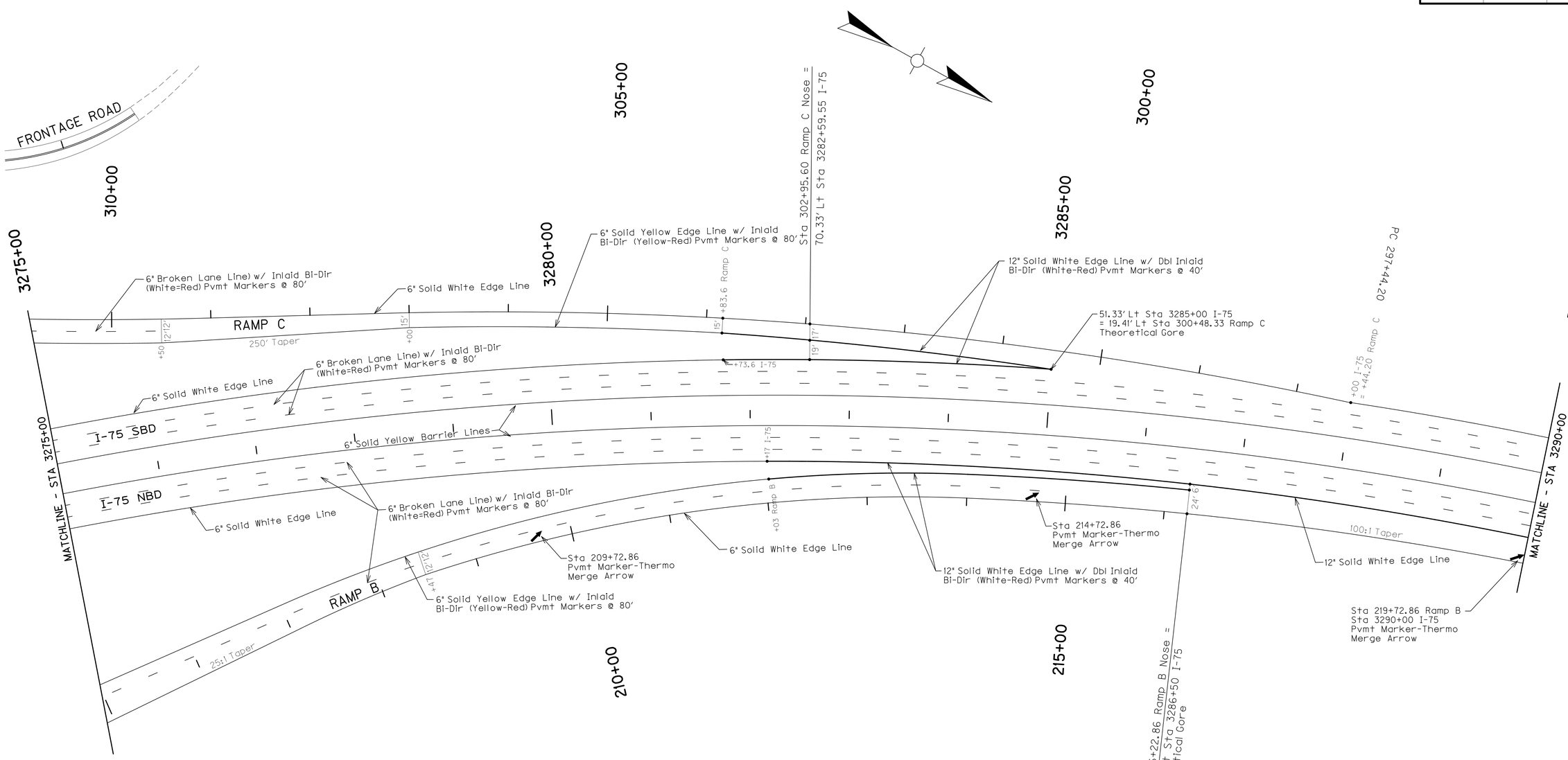
NOTE: SEE SH R94-R95 FOR US25 STRIPING QUANTITIES.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3260+00 TO STA. 3275+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R08400ST.DGN
USER: tvanbehren
DATE PLOTTED: October 24, 2017
E-SHEET NAME: R08400ST
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R85



ITEM	I-75	RAMP B	RAMP C	UNITS
6" Solid White Edge Line	2315	1130	700	FT
6" Broken White Lane Line	1500	233	33	FT
6" Solid Yellow Barrier Line	3000			FT
6" Solid Yellow Edge Line		710	694	FT
12" Solid White Edge Line	1440	425		FT
Type V Bi-Directional (White-Red)	140	35	2	EA
Type V Bi-Directional (Yellow-Red)		9	9	EA
Thermo Merge Arrows		3		EA

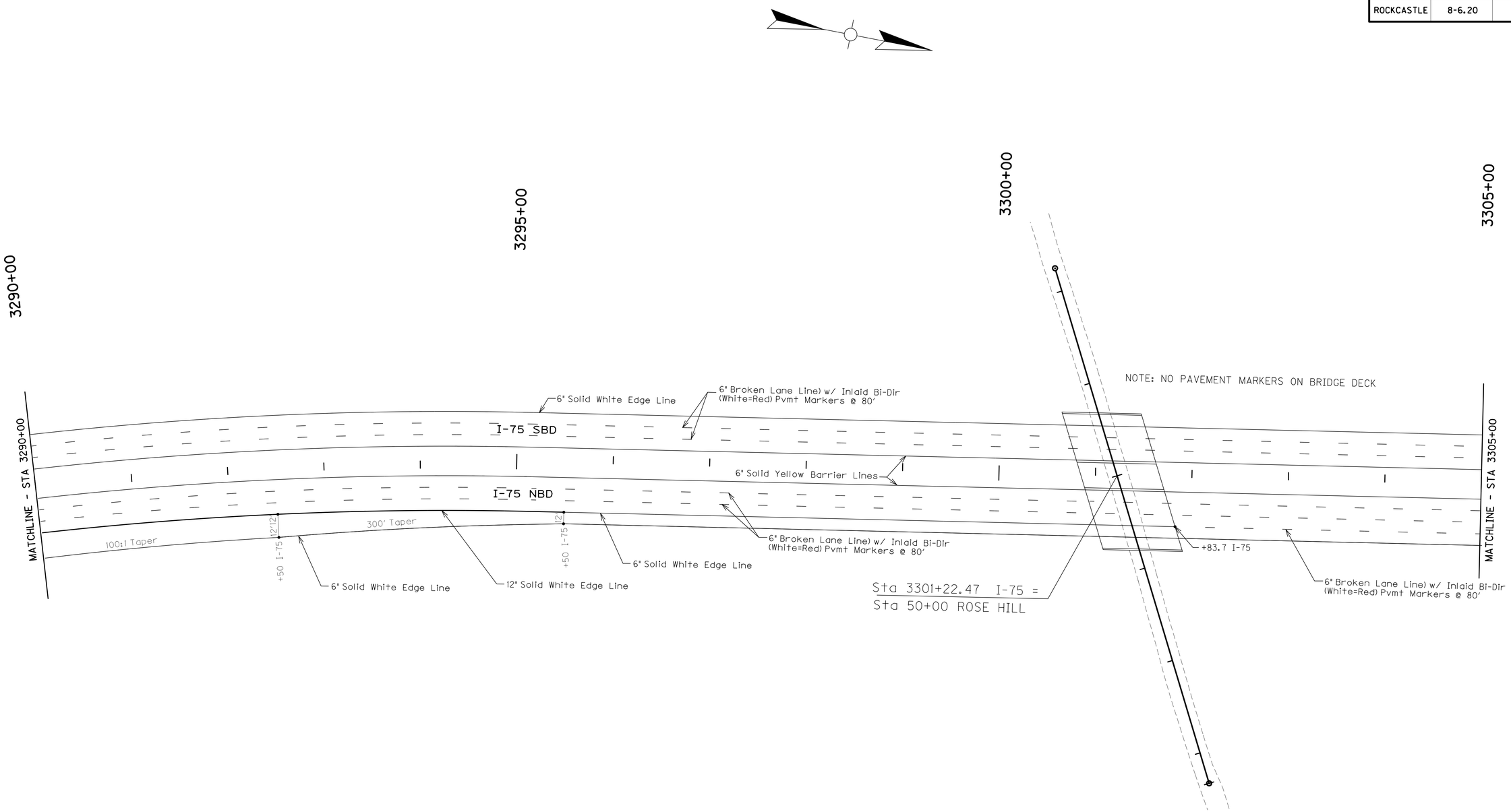
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3275+00 TO STA. 3290+00

MicroStation v8.11.7.443 | E-SHEET NAME: R085OOST | USER: tvanbehren DATE PLOTTED: October 24, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R085OOST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R86



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1738	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	94	EA
12" Solid White Edge Line	550	FT

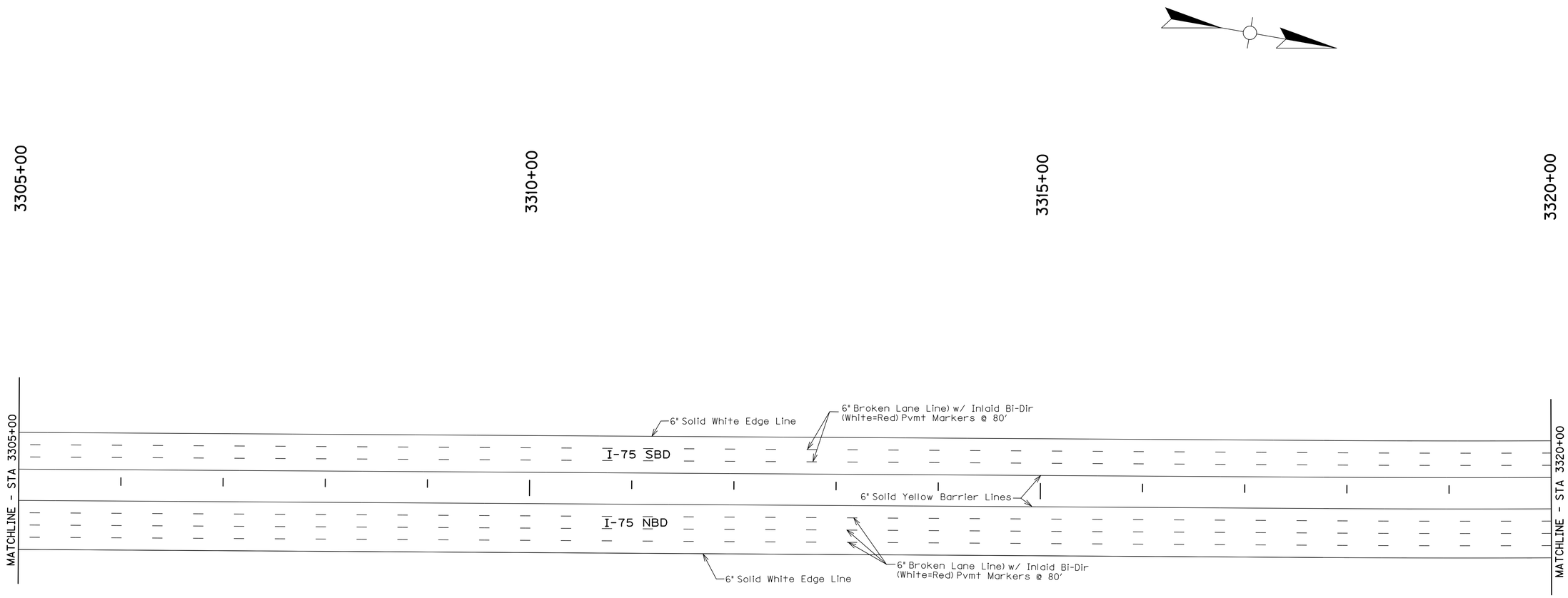
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3290+00 TO STA. 3305+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R0860OST.DGN
USER: tvanbehren
DATE PLOTTED: October 24, 2017
E-SHEET NAME: R0860OST
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R87



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1875	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	94	EA

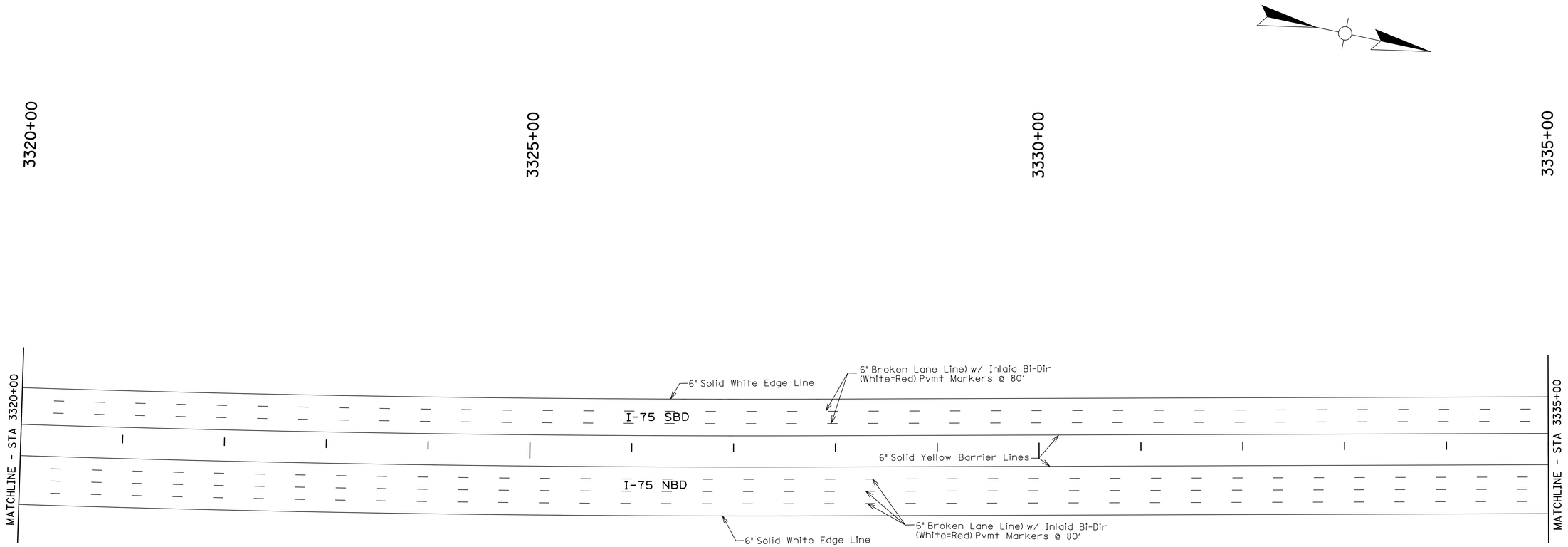
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3305+00 TO STA. 3320+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\ROBTOOST.DGN
USER: tbaker
DATE PLOTTED: August 22, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R88



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1875	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	94	EA

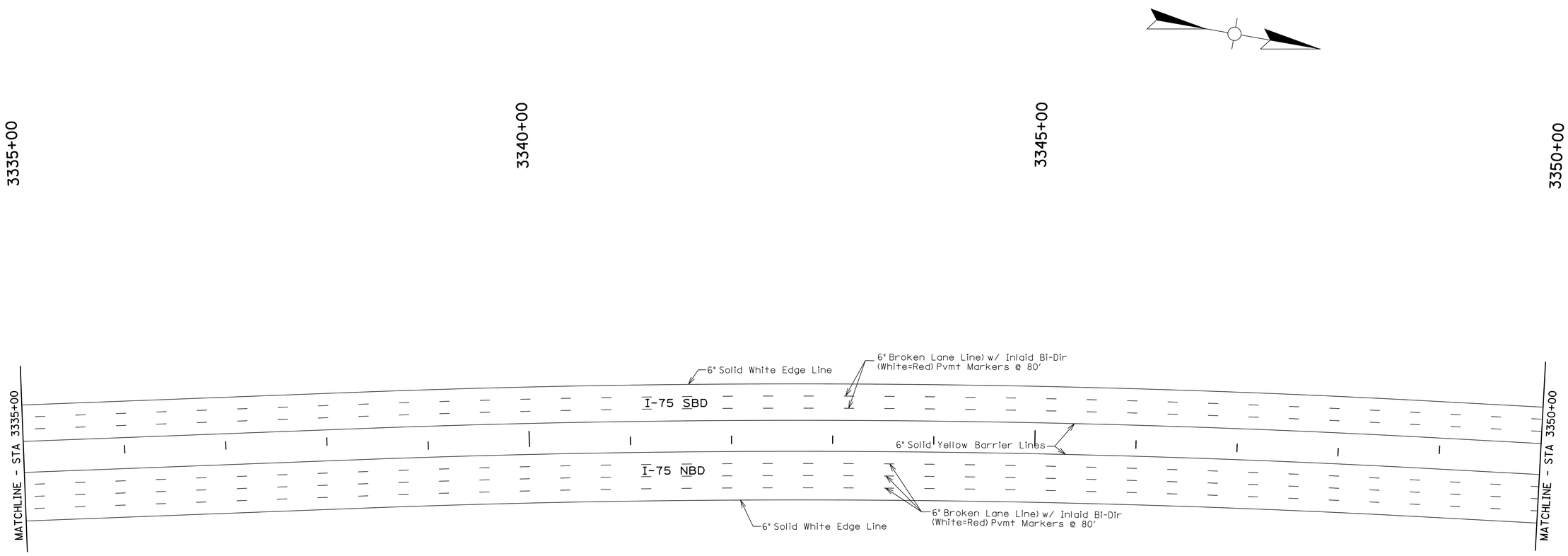
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3320+00 TO STA. 3335+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R08800ST.DGN
USER: tbaker
DATE PLOTTED: August 22, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R89



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1875	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	94	EA

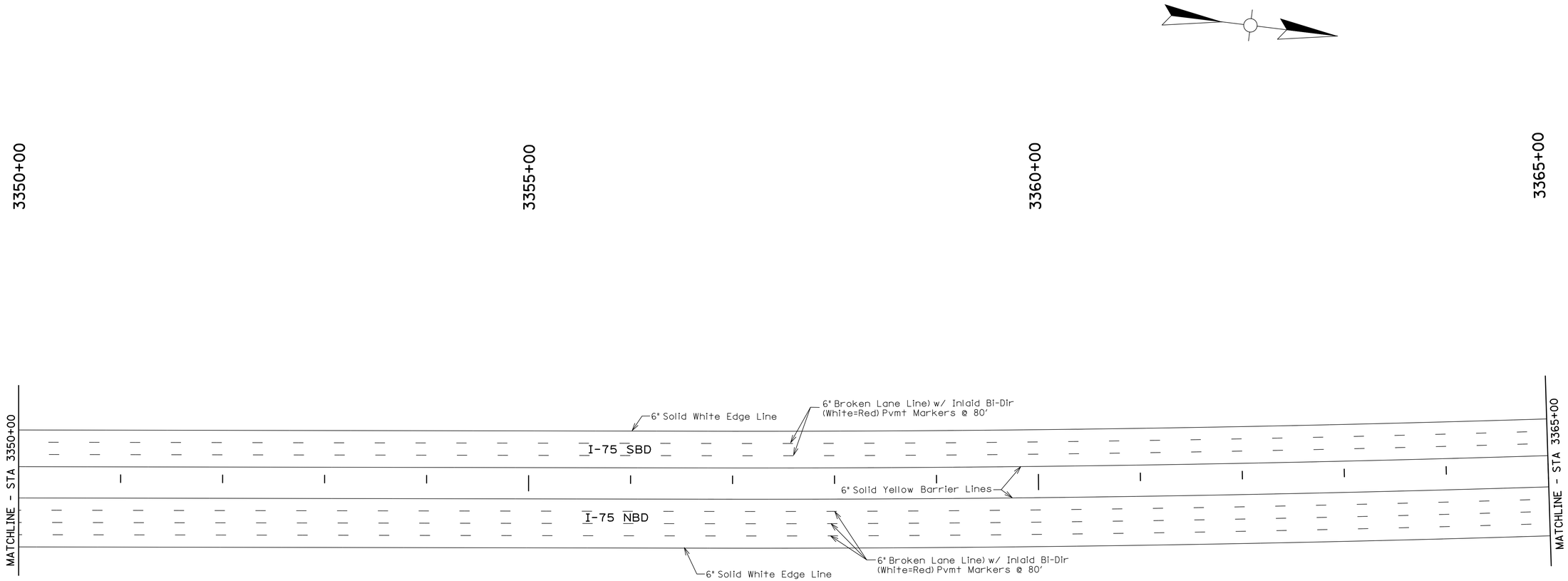
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3335+00 TO STA. 3350+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R08900ST.DGN
USER: tbaker
DATE PLOTTED: August 22, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R90



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1875	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	94	EA

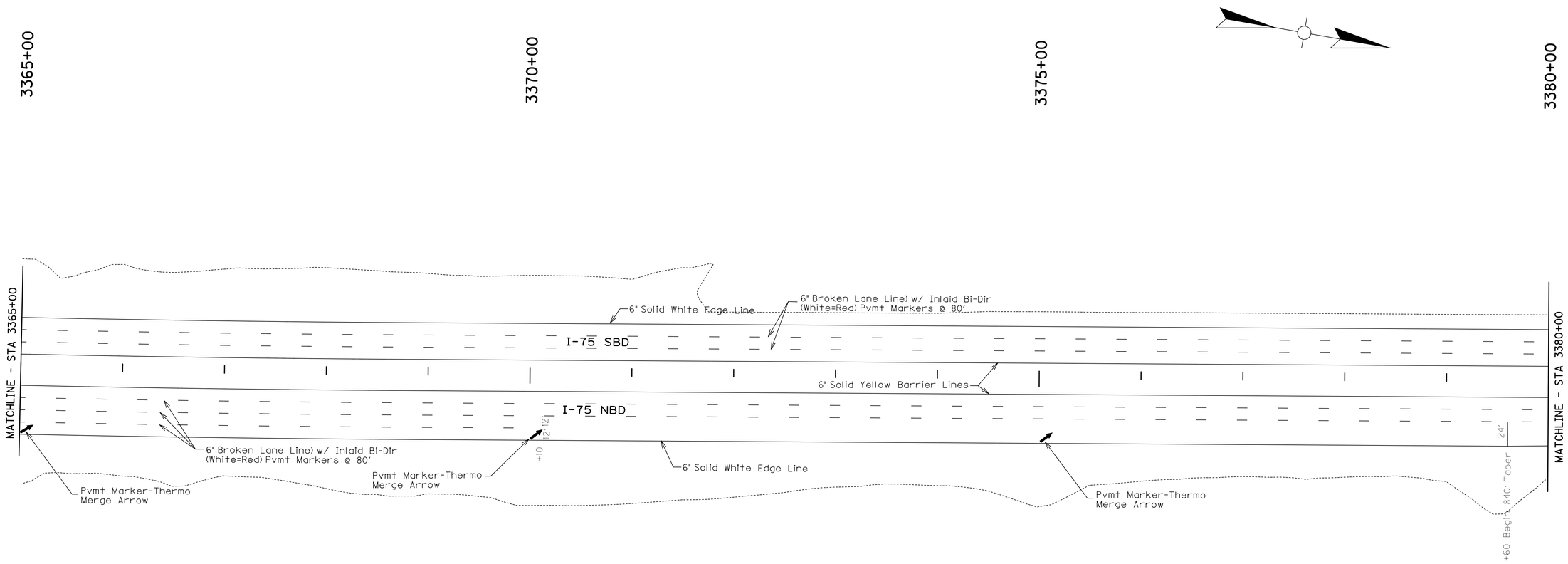
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3350+00 TO STA. 3365+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R09000ST.DGN
USER: tbaker
DATE PLOTTED: August 22, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R91



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1628	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	82	EA
Thermo Merge Arrows	3	EA

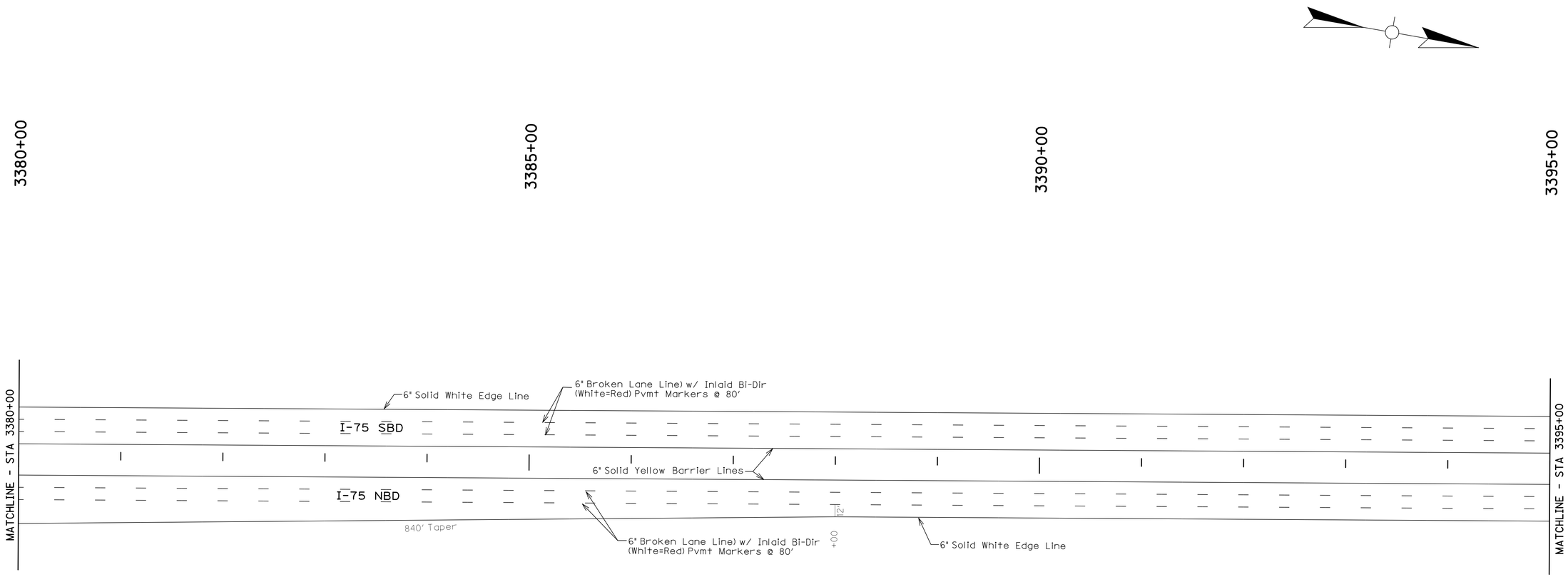
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3365+00 TO STA. 3380+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R091OOST.DGN
USER: tvonbehren
DATE PLOTTED: October 24, 2017
E-SHEET NAME: R091OOST
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R92



ITEM	I-75	UNITS
6" Solid White Edge Line	3000	FT
6" Broken White Lane Line	1500	FT
6" Solid Yellow Barrier Line	3000	FT
Type V Bi-Directional (White-Red)	75	EA

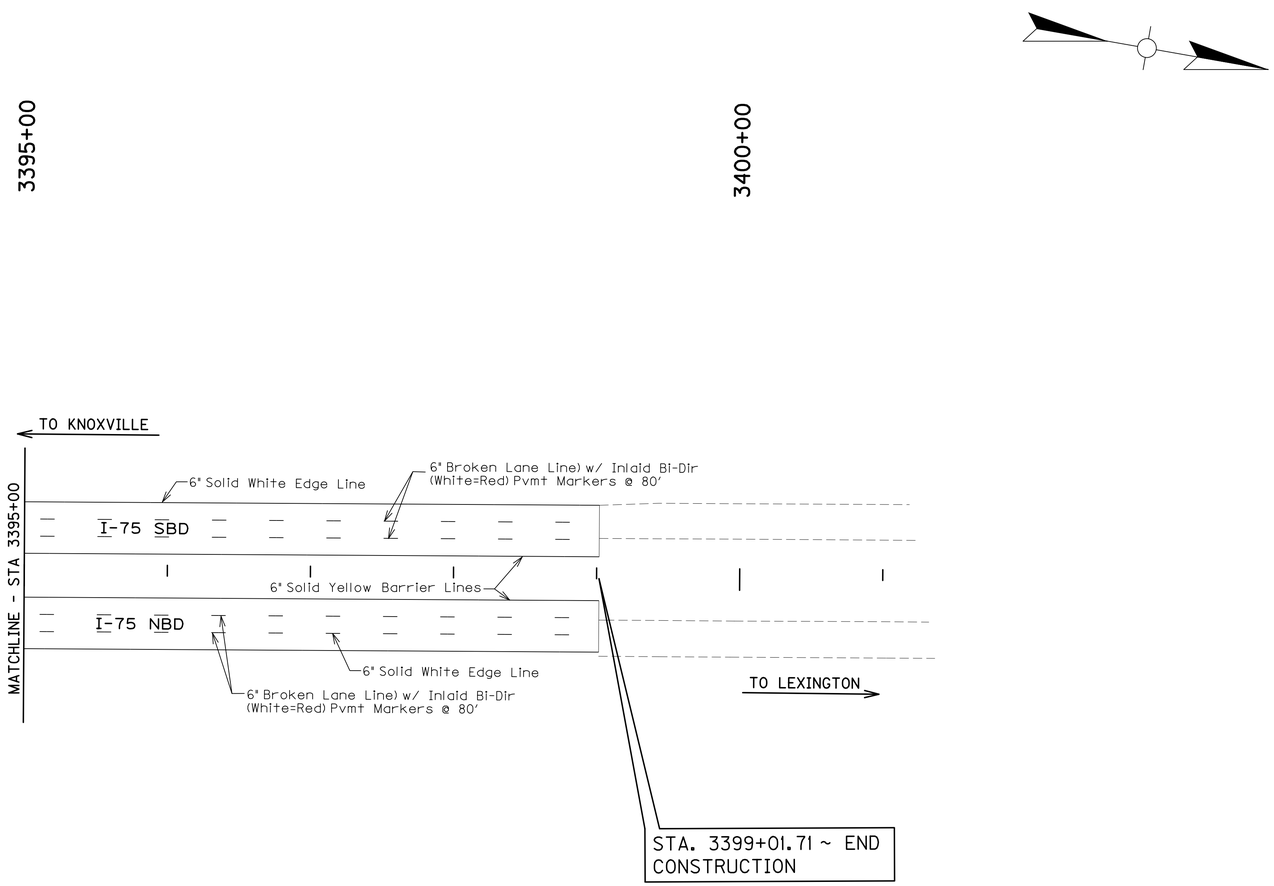
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3380+00 TO STA. 3395+00

MicroStation v8.11.7.443 | E-SHEET NAME: R9200ST | USER: tvanbehren DATE PLOTTED: October 24, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R9200ST.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R93



ITEM	I-75	UNITS
6" Solid White Edge Line	803	FT
6" Broken White Lane Line	402	FT
6" Solid Yellow Barrier Line	803	FT
Type V Bi-Directional (White-Red)	20	EA

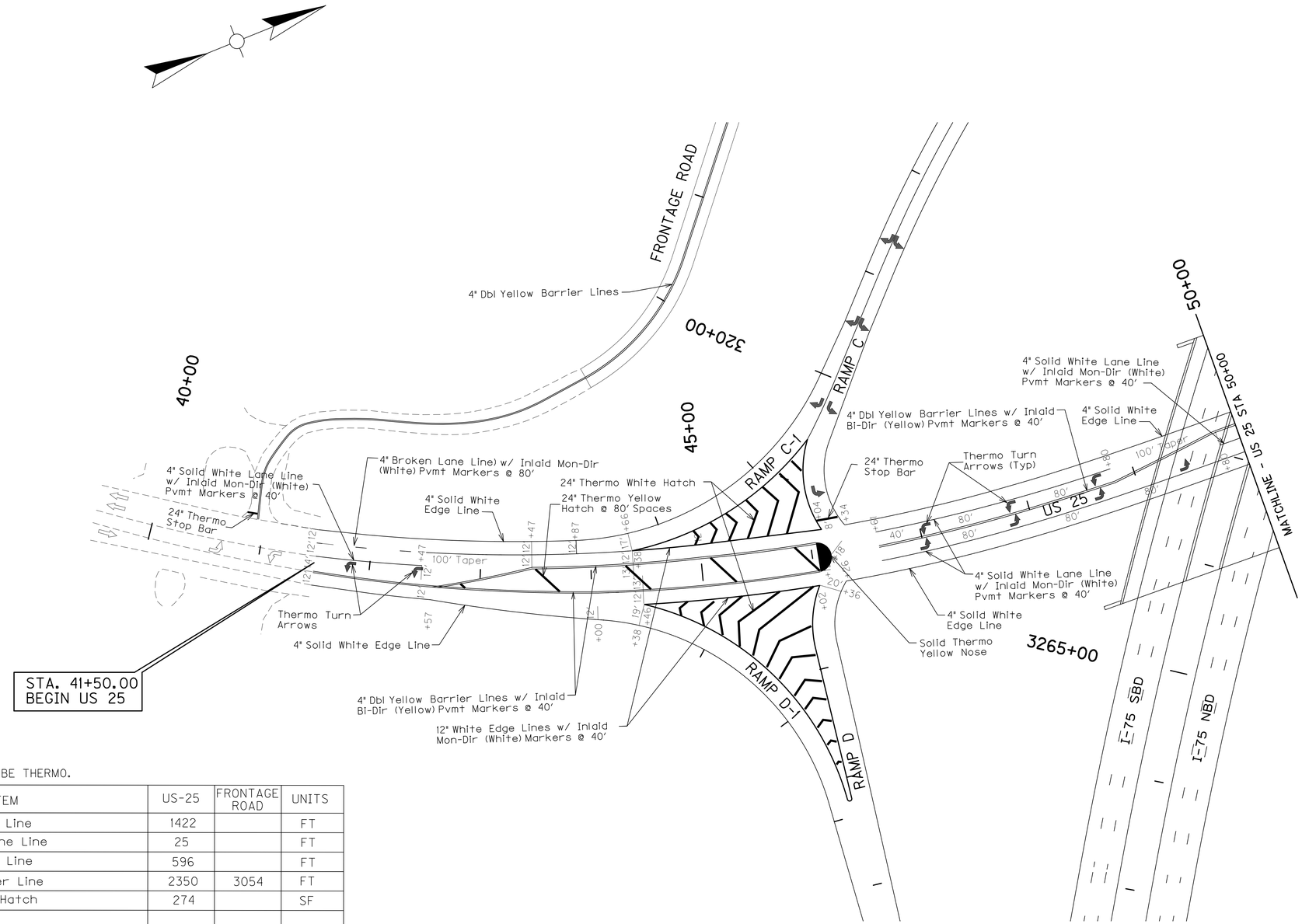
ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
STA. 3395+00 TO STA. 3399+01.71

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R09300ST.DGN
USER: tbaker
DATE PLOTTED: August 22, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R94



ALL STRIPING WILL BE THERMO.

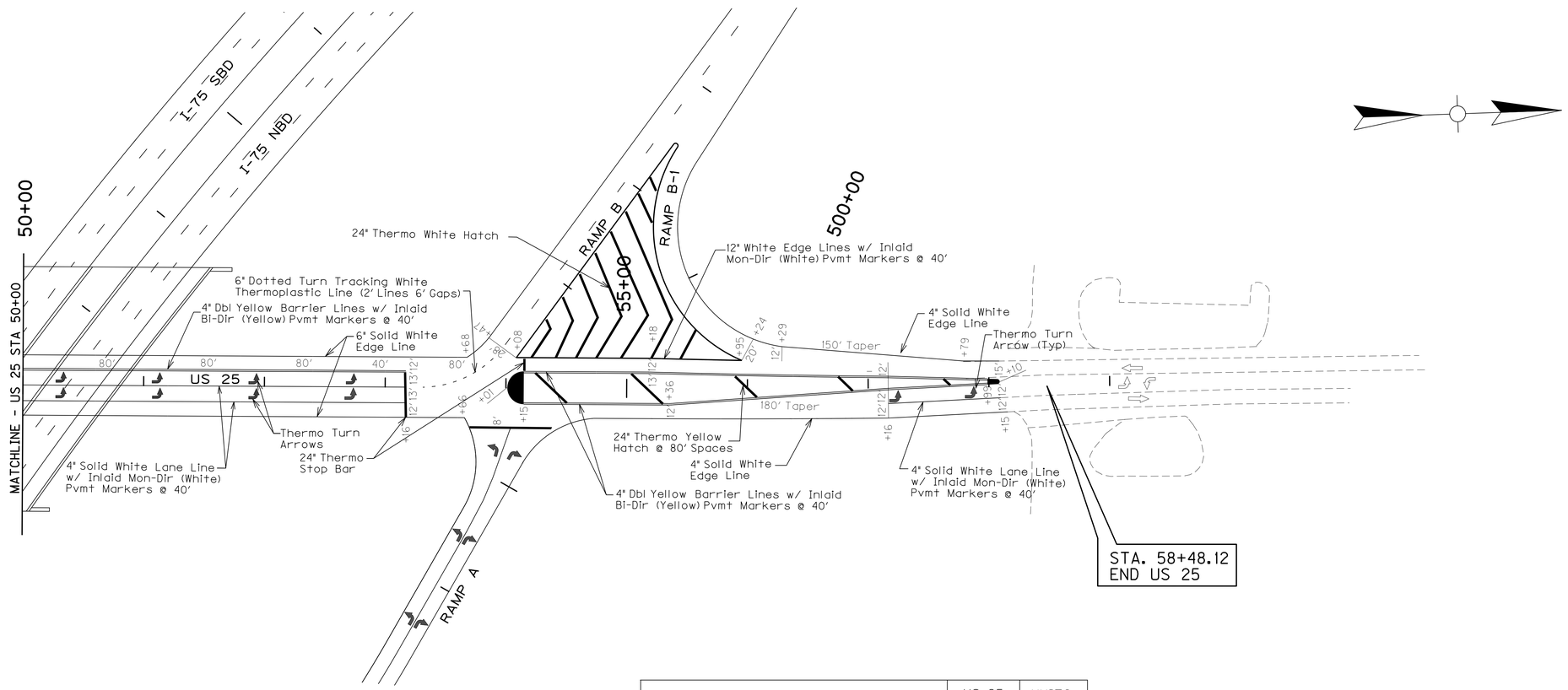
ITEM	US-25	FRONTAGE ROAD	UNITS
4" Solid White Edge Line	1422		FT
4" Broken White Lane Line	25		FT
4" Solid White Lane Line	596		FT
4" Dbl Yellow Barrier Line	2350	3054	FT
24" Thermo Yellow Hatch	274		SF
Solid Thermo Yellow Nose	251		SF
Thermo Turn Arrows	7		EA
Type V Mon-Directional (White)	18		EA
Type V Bi-Directional (Yellow)	61		EA
12" Solid White Edge Line	159		FT
24" Thermo Stop Bar		10	FT

SCALE: 1"= 50'

STRIPING DETAILS
US 25
STA. 41+50 TO STA. 50+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R09400ST.DGN
USER: tvanbehren
DATE PLOTTED: October 24, 2017
E-SHEET NAME: R09400ST
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R95



ITEM	US-25	UNITS
4" Solid White Edge Line	1255	FT
4" Solid White Lane Line	632	FT
4" Dbl Yellow Barrier Line	2170	FT
24" Thermo Yellow Hatch	244	SF
6" Thermo Dotted Turn Tracking White (2' Lines 6' Gaps)	20	FT
Solid Thermo Yellow Nose	290	SF
24" Thermo Stop Bar	48	FT
Thermo Turn Arrows	10	EA
Type V Mon-Directional (White)	21	EA
Type V Bi-Directional (Yellow)	28	EA
12" Solid White Edge Line	187	FT

ALL STRIPING WILL BE THERMO.

SCALE: 1"= 50'

STRIPING DETAILS
US 25
STA. 50+00 TO STA. 58+48.12

MicroStation v8.11.7.443 | E-SHEET NAME: R09500ST | USER: tvonbehren DATE PLOTTED: October 24, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R09500ST.DGN

MAINTENANCE OF TRAFFIC NOTES

TRAFFIC CONTROL GENERAL

Except as provided herein, maintain and control traffic in accordance with the 2012 Standard Specifications, the Standard Drawings and the Manual on Uniform traffic Control Devices (MUTCD), current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain And Control Traffic". All lane closures used on the project will be in compliance with the appropriate standard drawings.

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work. Traffic control devices will conform to current MUTCD specifications.

During construction, signs and portable changeable message signs will be installed at locations specified by the engineer. See the Maintenance Of Traffic construction phasing plan for traffic control details during each phase of construction. The minimum lane width for this project shall be 11 feet. The I-75 speed limit is to be reduced to 55 mph throughout the work area.

No payment will be awarded for value engineering the maintenance of traffic plans.

CONSTRUCTION PHASING AND SEQUENCE OF CONSTRUCTION

Night/weekend work will be required on the project. Obtain the Engineer's approval of the method of lighting prior to performing night work.

Construction phasing and the sequence of construction will be maintained as shown in the plans and the Maintenance Of Traffic Notes unless otherwise approved by the Engineer.

The Contractor must notify the Engineer 14 days prior to beginning work.

CONSTRUCTION PHASING

SEE THE MAINTENANCE OF TRAFFIC PLANS FOR THE TYPICAL SECTIONS AND ADDITIONAL PHASING DETAILS.

Phase 1

Grade, drain and base course construction through final base course and the permanent Concrete Median Barrier Wall construction shall be performed in the median for Mainline and Median Cross-over. Temporary concrete barriers shall be placed as shown on the typical section for Phase 1 Construction. Traffic will be narrowed to 11' and maintained on the available existing driving lanes and outside shoulder.

Phase 2

The temporary concrete barriers adjacent to the northbound lanes shall be relocated to the newly constructed base course. Base course overlay, ditch widening, truck lane widening, pipe and culvert extensions, guardrail, and outside underdrain shall be constructed in areas outside the original median on the northbound lanes. Northbound traffic shall be maintained on the newly constructed area one lane on each side of the Permanent Median Barrier. The southbound traffic will be maintained on the existing southbound driving lanes narrowed to 11 feet. Rolling road blocks will be used during blasting and mucking operations to control traffic.

Phase 3

The temporary concrete barriers adjacent to the southbound lanes shall be relocated to the newly constructed base course. Base course overlay, ditch widening, truck lane widening, pipe and culvert extensions, guardrail, and outside underdrain shall be constructed in areas outside the original median on the southbound lanes. Southbound traffic shall be maintained on the newly constructed area one lane on each side of the Permanent Median Barrier. The northbound traffic will be maintained on the newly constructed northbound driving lanes. Rolling road blocks will be used during blasting and mucking operations to control traffic.

Phase 4

Close the temporary median crossovers at each end of the project and maintain traffic on the normal side of the roadway. Install temporary concrete median barriers through the median crossover area at each end of the project. Construct the top phases of the median inlets and the Permanent Concrete Median Barrier Wall not constructed in prior phases.

Remove the temporary barrier wall and place the final surface and striping.

1) Grade work in the median will be limited to a max of 2 miles and stabilization of subgrade has to be performed before the contractor advances. KYTC will not allow not stabilized subgrade to set open over 30 calendar days. Liquidated damages of $5000 per day will be assessed if subgrade remain non stabilized beyond 30 calendar days.

2) Contractor shall maintain a four-lane traveling way on I-75 with a minimum lane width of 11', except where noted. The Contractor shall notify the ROCKCASTLE and MADISON CO. Sheriffs Department and Kentucky State Police a minimum of 24 hours in advance of all mainline closures.

3) The Contractor will not be allowed to drive or haul construction equipment across the median from one side of the interstate to the other side, unless appropriate Barrier Wall Gates and / or lane closures are installed. All other equipment movements from one side of the interstate to the other shall utilize the nearest interchange. Hauling equipment that uses I-75 shall be restricted to licensed vehicles only. Vehicles shall not park or stop except within work areas designated by the Engineer. Any shoulder used for the deceleration lane and acceleration lane shall be widened and paved to adequately support heavy truck traffic. All expense to construct Barrier Wall Gates including but not limited to signing, widening and surfacing the existing shoulders, delineation, additional temporary barrier wall and crash cushions, and the concrete removal of this access shall be borne by the Contractor and be incidental to the contract. Pavement to construct barrier wall gates that will be incorporated into the permanent work will be measured for payment.

The Contractors vehicles shall always move with and not against the flow of traffic. Vehicles shall enter and leave work areas in a manner which will not be hazardous to or interfere with normal traffic. The design for access gates into and out of the median area are shown within these plans. The location and number of gates shall be approved by the Engineer.

The Contractor shall expedite excavation of all rock cuts and other excavation in a continuous manner once work has started. If the Contractor stops work in any one area for more than 2 calendar days (excluding holidays listed on sheet R96a), then liquidated damages will be assessed at the contract rate for every day until work resumes.

4) On I-75, a minimum of two 11' traffic lanes in each direction shall be maintained at all times except as provided herein. If the Contractor desires to deviate from the traffic control scheme and construction schedule outlined in these plans or in the proposal, an alternate plan shall be presented in writing to the Engineer. This alternate plan can only be used after review and approval of the Division of Traffic, Design, Construction and the FHWA.

RAMP WORK

No work will be allowed on the Southbound I-75 Exit 62 Off Ramp at US 25 between Memorial Day and Labor Day.

REMOVAL OF BRIDGES

For removal of the existing I-75 bridges over US 25 and Rose Hill Road, also known as Lake Linville Road, the Contractor will be allowed to close the local road for one night for removal of the existing structure for each construction phase removal is required. The road closure must occur on Tuesday thru Thursday nights beginning at 8 PM and ending by 6 AM the next morning for a total of 10 hours. For each hour the road remains closed after 6 AM a disincentive fee of $2500 per hour or fraction thereof will be assessed the Contractor until the road is opened to traffic. The Contractor must provide the Engineer his proposed closure date at least seven (7) days prior to the closure along with an acceptable detour signing plan. Any signing required for the approved detours must be in place before the closure begins. Payment for these signs and all costs required to install and remove them will be incidental to the Maintain and Control Traffic bid item.

SPEED LIMIT

The speed limit will be reduced to 55 mph in the work zone. Reduce Speed Ahead signs (R2-5A) and 55 MPH signs (R2-1) shall be installed both Northbound and Southbound. Payment for these signs shall be included in the bid item for "Temporary Signs".

CONSTRUCTION ACCESS (INSIDE TO OUTSIDE)

Access openings will be spaced at no less than 1 mile per direction. The proposed location of the access opening and the position of the Portable Changeable Message Sign will be approved by the engineer before being placed in operation. See the Construction Access Detail sheets for details.

EXISTING RUMBLE STRIPS

The existing rumble strips on the Northbound and Southbound outside shoulder shall be removed prior to shifting traffic in Phase I by milling 1 inch deep and 11 feet wide. See the Maintenance Of Traffic Typical Section for milling limits. This area shall then be overlaid with a 1 inch CL3 ASPH SURF 0.38D PG64-22. All exposed areas that have been milled will be replaced with Asphalt before the lane closure can be removed. Quantities for both milling and the asphalt surface have been included in the plans.

CONCRETE BARRIER WALL DELINEATORS

An estimated quantity of delineators for the existing and permanent concrete barrier walls (mono white and mono yellow) is included on the General Summary. Delineators are to be installed on the existing and permanent barrier walls, bridge barrier walls, and temporary barrier walls, prior to shifting traffic next to them. Contrary to the standard drawing RBM-020, delineators for permanent barrier walls will be required every 50 feet. Delineators on temporary barrier walls will be required every 20 feet.

Delineators placed on the permanent concrete median barrier wall shall conform to the location of traffic in each phase. Specifically, during construction phase 3 when one lane of traffic is shifted to opposite side of the barrier wall, the delineators placed on the opposing side of the roadway during phase 2 will not conform to the phase 3 traffic configuration. After phase 3 construction the delineators shall conform to the permanent traffic pattern.

Delineators placed on the temporary concrete barrier wall must also conform to the direction of traffic in each phase. Temporary concrete barrier wall delineators will be incidental to the temporary barrier wall bid item and will be become the property of the Contractor at completion of the project.

ROLLING ROADBLOCK

The Contractor shall employ one vehicle per lane, including ramps if necessary, in one direction during hours of low traffic volumes at a predetermined speed as determined by the Project Engineer. Normally the speed shall not be less than 10 MPH. There shall be no stopping of the rolling roadblock while advancing to the construction area. Prior to initiating the rolling roadblock the roadway ahead shall be cleared of traffic as directed by the Project Engineer. The areas of influence shall also be sealed off at all On Ramps or access intersections closed by the use of flagpersons and/or contractor vehicles. When the rolling roadblock reaches the construction area traffic may be stopped for 15 minutes. The process can be repeated after all traffic has cleared the construction area as directed by the Project Engineer.

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R96a

MAINTENANCE OF TRAFFIC NOTES

ROAD CLOSURE

When setting beams, removing and setting overhead sign supports, and changing from one traffic pattern to another, traffic may be haulted at the nearest interchange for a period not longer than 15 minutes. Road Closures shall be allowed only during hours of "minimum traffic volumes" as described in these Traffic Control Notes. These interruptions to traffic shall not occur more often than once in a period of "minimum traffic volumes" unless normal traffic has been restored in the opinion of the Engineer. The Contractor shall submit in writing, plans for approval by the Department and FHWA for stopping traffic.

LANE CLOSURE

When construction within 8 feet of the traveled way is in progress and / or when installing barrier wall adjacent to a traveled way, one lane shall be closed. Lane closures shall be allowed only during "hours of low traffic volumes" as described in these Traffic Control Notes. All sign placement shall also be done during "hours of low traffic volume". Once construction adjacent to a traveled way has begun, that construction shall be expedited until complete. Existing guardrail shall be maintained at all times while traffic is in Phase 1. If construction can not be completed in a single-approved period of "hours of low traffic volumes", the Contractor will be required to remove the lane closure and provide the proper signing and delineation for a shoulder closure. Use Standard Drawing TTC-115-Current Edition (Lane Closure Case I) or Standard Drawing TTC-120-Current Edition (Lane Closure Case II). Drums or Barricades Type II shall be required by the Engineer regardless of closure time and a portable flashing arrow shall be required. Contrary to the Standard Specifications, Lane Closure will not be a bid item on this contract and all signs, delineators, labor, etc. for lane closures will be incidental to the bid item Maintain and Control Traffic.

SHOULDER CLOSURE

In open construction areas within 30 feet of the edge of a traveled roadway, the shoulder shall be closed unless positive separation has already been provided. Use Standard Drawing TTC-135- Current Edition (Shoulder Closure) for delineation of open construction areas adjacent to pavement. Drums or Barricades Type II may be required by the Engineer regardless of the time of shoulder closure.

HOURS OF LOW TRAFFIC VOLUMES

In these notes and following the sequences of construction, the phrase "hours of low traffic volumes" is used to specify a time frame in which a lane closure is allowed in order to perform a particular construction sequence adjacent to a traveled way. Listed below are the periods of time for each day of the week that are to be considered "hours of low traffic volumes".

Prior to the Contractor performing any construction sequence, he must apply in writing to the Engineer for approval of the period of time selected. The Engineer may, at his discretion, cancel or shorten any period of time before and during a construction sequence. If the Engineer shortens a period of time during a construction sequence, the Contractor must remove all equipment and install all necessary traffic control devices.

Southbound	Northbound
Mon 7:00 P.M. - Tue 8:00 A.M.	Mon 7:00 P.M. - Tue 8:00 A.M.
Tue 7:00 P.M. - Wed 8:00 A.M.	Tue 7:00 P.M. - Wed 8:00 A.M.
Wed 7:00 P.M. - Thu 8:00 A.M.	Wed 7:00 P.M. - Thu 8:00 A.M.
Thu 10:00 P.M. - Fri 7:00 A.M.	Thu 7:00 P.M. - Fri 8:00 A.M.
Fri 10:00 P.M. - Sat 7:00 A.M.	Fri 7:00 P.M. - Sat 8:00 A.M.
Sat 7:00 P.M. - Sun 8:00 A.M.	Sat 10:00 P.M. - Sun 8:00 A.M.
Sun 7:00 P.M. - Mon 8:00 A.M.	Sun 10:00 P.M. - Mon 8:00 A.M.

HOURS OF MINIMUM TRAFFIC VOLUMES

In the notes and following the sequences of construction, the phrase "hours of minimum traffic volumes" is used to specify a time frame in which a roadway can be completely closed between two (2) adjacent interchanges in order to perform a particular construction sequence. Listed below are the periods of time for each day of the week that are to be considered "hours of minimum traffic volumes". Prior to the Contractor performing any construction sequence, he must apply in writing to the engineer for approval of the period of time selected. The Engineer may, at his discretion, cancel or shorten any period of time before and during a construction sequence. If the Engineer shortens a period of time during a construction sequence, the Contractor must remove all equipment and install all necessary traffic control devices. The time that a roadway is completely closed shall not exceed 15 minutes.

Southbound	Northbound
Mon 8:00 P.M. - Tue 6:00 A.M.	Mon 8:00 P.M. - Tue 6:00 A.M.
Tue 8:00 P.M. - Wed 6:00 A.M.	Tue 8:00 P.M. - Wed 6:00 A.M.
Wed 8:00 P.M. - Thu 6:00 A.M.	Wed 8:00 P.M. - Thu 6:00 A.M.
Thu 10:00 P.M. - Fri 6:00 A.M.	Thu 9:00 P.M. - Fri 6:00 A.M.
Fri 11:00 P.M. - Sat 6:00 A.M.	Fri 10:00 P.M. - Sat 6:00 A.M.
Sat 8:00 P.M. - Sun 6:00 A.M.	Sat 11:00 P.M. - Sun 6:00 A.M.
Sun 8:00 P.M. - Mon 6:00 A.M.	Sun 11:00 P.M. - Mon 6:00 A.M.

HOLIDAYS

Listed below are dates and times for holidays when lane closures, road closures, or blasting will not be allowed:

2017	
Thanksgiving	6:00 A.M. November 22, 2017 to 6:00 A.M. November 27, 2017
Christmas & New Years	6:00 A.M. December 22, 2017 to 6:00 A.M. January 2, 2018
2018	
KEA (Spring Break)	To be determined by the Department
Easter	6:00 A.M. March 30, 2018 to 6:00 A.M. April 2, 2018
Bristol Race (Spring)	6:00 A.M. April 13, 2018 to 6:00 A.M. April 16, 2018
Memorial Day	6:00 A.M. May 25, 2018 to 6:00 A.M. May 29, 2018
July 4th	6:00 A.M. July 3, 2018 to 6:00 A.M. July 9, 2018
Bristol Race (Fall)	6:00 A.M. August 16, 2018 to 6:00 A.M. August 20, 2018
Labor Day	6:00 A.M. August 31, 2018 to 6:00 A.M. September 4, 2018
Thanksgiving	6:00 A.M. November 21, 2018 to 6:00 A.M. November 26, 2018
Christmas & New Years	6:00 A.M. December 21, 2018 to 6:00 A.M. January 2, 2019
2019	
KEA (Spring Break)	To be determined by the Department
Easter	6:00 A.M. April 19, 2019 to 6:00 A.M. April 22, 2019
Bristol Race (Spring)	To be determined by the Department
Memorial Day	6:00 A.M. May 24, 2019 to 6:00 A.M. May 28, 2019
July 4th	6:00 A.M. July 3, 2019 to 6:00 A.M. July 8, 2019
Bristol Race (Fall)	To be determined by the Department
Labor Day	6:00 A.M. August 30, 2019 to 6:00 A.M. September 3, 2019

Future Holiday dates when lane closures will not be allowed shall be determined by the Department if necessary, comparable to above dates. The above dates are subject to change if the Department deems it necessary.

BLASTING OPERATIONS

During blasting operations, traffic may be haulted a maximum of 15 minutes per hour to allow the execution of the "shot" and to allow for removal of rock fragments and debris. The Contractor, when using explosive charges of any kind for the purpose of excavating, removal, etc., on this project shall halt all traffic a safe distance on either side of the impending explosion. The Contractor shall immediately inspect the pavements for any debris that may be a hazard to traffic before allowing traffic to proceed on the affected section. When blasting, the Contractor shall halt traffic, blast, clean the existing pavements and return traffic to normal operation in the least amount of time possible. Listed below are the periods of time for each day of the week traffic halts for blasting will be allowed:

Southbound	Northbound
Mon 9:00 A.M. - 3:00 P.M.	Mon 9:00 A.M. - 3:00 P.M.
Tue 9:00 A.M. - 3:00 P.M.	Tue 9:00 A.M. - 3:00 P.M.
Wed 9:00 A.M. - 3:00 P.M.	Wed 9:00 A.M. - 3:00 P.M.
Thu 9:00 A.M. - 3:00 P.M.	Thu 9:00 A.M. - 3:00 P.M.
Fri 9:00 A.M. - 11:00 A.M.	Fri 9:00 A.M. - 3:00 P.M.

LIQUIDATED DAMAGES AND DISINCENTIVES

The following damages will be assessed if road closures are kept for longer than 15 minutes:

15 minutes to 30 minutes: $1000.00
30 minutes to 45 minutes: $2000.00
45 minutes to 60 minutes: $4000.00

All road closures longer than 60 minutes will be assessed damages of $4000.00 per hour of fraction thereof. Damages for any fraction of an hour will be charged at the full $4000.00 hourly rate. Interruptions to traffic shall not occur more than once in a period of permitted road closures unless normal traffic flow has been restored and the Engineer approves another road closure.

The contractor shall submit in writing plans for stopping traffic which will be reviewed for approval by the Department of Highways and the FHWA.

A disincentive fee of $1300.00 per lane closure per hour will be charged for the first hour or fraction of an hour that two lanes in each direction of I-75 are not open excepting for the permitted hours as defined as hours of low traffic volume. The $1300.00 per lane closure per hour disincentive also will be assessed for any single lane closure not specifically permitted in the traffic control plan. Lane closures in place for more than one hour in excess of permitted hours will be charged disincentive fees at a higher rate. The disincentive fee for the second hour of lane closure in place beyond permitted hours will be $2600.00 per lane closure per hour. The disincentive fee for the third hour of lane closure in place beyond permitted hours and for any additional hour or portion of an hour will be $4000.00 per lane closure per hour.

TRAFFIC CONTROL PLAN

MicroStation v8.11.7.443 E-SHEET NAME: R0960AMT USER: tvonbehren DATE PLOTTED: September 4, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R0960AMT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R96b

MAINTENANCE OF TRAFFIC NOTES

PAVEMENT EDGE DROP-OFFS

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

- Less than 2" - No protection required. Uneven Lanes signs W8-11 should be placed in advance and throughout the drop-off area.
- 2" to 4" - Place plastic drums, vertical panels, or barricades every 100 feet on tangent sections for speeds of 50 miles per hour or greater. Cones may be used in place of plastic drums, panels, and barricades during daylight hours only. Spacing for tapers should be in accordance with the Manual on Uniform Traffic Control Devices.
- Greater than 4" - Concrete Barrier Walls or wedge with 3:1 or flatter slope needed. If there is 8 feet or more distance between the edge of pavement and drop-off drums, panels, or barricades may be used. If concrete barriers are used, special reflective devices or steady burn lights should be used for overnight installations. For temporary conditions, drop-offs greater than 4" 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 the DGA materials used for wedging.
- Pavement edges at entrances and approaches will receive an asphalt wedge to maintain traffic.

LANE CLOSURES AND LANE SHIFTS

All lane closures, lane shifts and tapers shall be in accordance with the Standard Drawings and the MUTCD. Any lane closure or lane shift must be approved by the Engineer prior to the closure or lane shift. The Contractor must notify the Engineer at least five (5) days prior to any proposed lane closure or traffic pattern change. Contrary to Section 112, lane closures will not be measured for payment, but are considered incidental to "Maintain And Control Traffic," lump sum.

DOUBLE FINE SIGN NOTE

Locations not routinely protected by a barrier wall are eligible for "Double Fine" signs. A highway zone which has barrier wall but in which unusual or hazardous conditions exist which expose the workers to traffic hazards shall also be eligible for "Double Fine" signs. However, the signs shall only be placed in portions of work zones in which workers are exposed to traffic hazards.

The Contractor shall notify the Engineer a minimum of twelve (12) hours prior to using "Double Fine" signs. At the beginning of the highway work zone, the "Fine Doubled In Work Zone" sign will be placed. At the end of the work zone the "End Double Fine" sign shall be placed. The signs shall be covered or removed when the highway work zone does not have workers for more than a two (2) hour period.

Payment for the signs shall be made at the unit bid price for "Temporary Signs". The moving and covering of the signs shall be incidental to the bid item "Temporary Signs".

COORDINATION

The Contractor is advised there may be an active construction project adjacent to this project. He shall coordinate his work with the adjacent Contractor to avoid conflicts in the maintenance of traffic. Items of particular concern are temporary concrete barrier wall placement, relocation and removal and mainline I-75 lane closures, road closures, and traffic shifts. The Contractor shall also coordinate the location of the construction access points in the vicinity of the adjacent project. Construction of both projects should progress at a rate that will allow the concurrent shift of I-75 traffic to the new median pavement of both construction sections.

PROJECT TRAFFIC COORDINATOR (PTC)

Be advised this project is a significant project pursuant to section 112.03.12.

Designate an employee to be traffic coordinator. The designated Traffic Coordinator must be certified in accordance with Department's 2012 Standard Specifications Sec. 112.03.12. The Traffic Coordinator will inspect the project maintenance of traffic once daily, including weekends, during the Contractor's operations and at any time a lane closure is in place. The Traffic Coordinator will report all incidents throughout the work zone to the Engineer on the project. The Contractor will furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

During any period when a lane closure is in place, the Traffic Coordinator will arrange for personnel to be present on the project at all times to inspect the traffic control, maintain the signing and devices, and relocate portable changeable message boards as queue lengths change. The personnel will have access on the project to a radio or telephone to be used in case of emergencies or accidents.

LAW ENFORCEMENT OFFICERS (LEO'S)

Police support shall be a unit consisting of an off-duty police officer from any police force agency having lawful jurisdiction and a police car equipped with externally mounted flashing blue lights. Officers may be asked to issue citations for traffic violations, but will be considered incidental to the contract unit bid price for "Law Enforcement Officer". No additional compensation will be provided. The officers will be placed at the discretion of the Engineer. Police support will be measured and paid on a per hour basis for each officer and police vehicle.

BUFFER ZONE

Barrels and other traffic control devices will be extended 0.5 mile beyond the project limits on the Southbound lanes to create a buffer zone before entering the project area.

PORTABLE QUEUE WARNING ALERT SYSTEM

Portable Queue Warning Alert System is required on this project. Contrary to the special note for "Portable Queue Warning Alert System" in the proposal, SAT communication Service will not be required. This system shall be Ver-Mac Jamlogic Smart Work Zone or one that will seamlessly be compatible with it. All costs associated with furnishing and operating this system will be paid for by bid item 24873EC Control System for Incident Management. The unit for this bid item will be Lump Sum. System to include 12 Portable Changeable Message Signs.

TEMPORARY STRIPING AND PAVEMENT MARKINGS, REMOVAL OF PAVEMENT MARKINGS, AND RAISED PAVEMENT MARKERS

The Contractor will remove all pavement markings and the lenses of raised pavement markers that do not apply to the traffic operation in use. In areas where the pavement markings will conform to the final marking scheme or for other reasons will not be removed, pavement markings shall be of a permanent type pavement marking material. All temporary pavement markings, which must be subsequently removed, shall be an approved removable striping tape or temporary paint. Removable striping tape-white, removable striping tape-yellow or removable striping tape-black will be measured in linear feet for payment at their respective contract unit price. Estimated quantities for temporary paint and removable striping tape are included as bid items.

Any striping removal (temp, perm) shall be removed by waterblasting. Waterblasting and removal of temporary tape will be incidental to bid item "Maintain and Control Traffic".

Place temporary striping in accordance with Section 112, except that:

1) Temporary striping will be six (6) inches wide.

2) Edge lines will be required for temporary striping except for short term durations approved by the Engineer.

3) Existing, temporary, or permanent striping, will be in place before a lane is opened to traffic.

PORTABLE CHANGEABLE MESSAGE SIGN

The contractor shall furnish and maintain Portable Changeable Message Signs. The contractor shall install, operate and maintain the Portable Changeable Message Signs through the completion of the project. They shall be placed in a location designated or approved by the Engineer. The Portable Changeable Message Signs will be in accordance with "Special Note for Portable Changeable Message Sign". The Portable Changeable Message Signs will remain the property of the Contractor after construction is finished.

TEMPORARY SIGNS

Bid Item No. 2562 "Temporary Signs" will be paid for on a square foot basis and includes all costs necessary to furnish the signs, placement of the signs in the first location, relocating the signs from one location to another according to the construction phase, temporary covering or removal of the signs when the sign does not apply to the work being performed, and upon completion of the project, removal of the signs from the job site. See Section 112.04.02 of the 2012 Standard Specifications for additional details.

PERMANENT SIGNING MODIFICATIONS

Existing ground mounted and overhead panel signs will be covered as construction phasing requires. The Engineer will determine the duration that the covering shall remain in place. Since most materials used in covering signs may cause permanent damage to the sign face, porous cloth covers which are folded over the sign edges and secured on the back of the sign may be used or thin gauge sheeting material may be used. The use of tape, paper, plastic or sheet metal for covering signs is strictly prohibited. If any sign is damaged as a result of being covered, the sign shall be replaced by the Contractor at no cost to the Department. Covering of existing panel signs shall be incidental to Maintain And Control Traffic.

Existing sheeting signs will be covered, removed, relocated, or stored as directed by the Engineer during construction. The cost for covering, removing, relocating, or storing sheeting signs and all hardware necessary shall be incidental to Maintain And Control Traffic.

ARROW PANELS

The Contractor will provide arrow panels as indicated in the Maintenance Of Traffic Plan. The arrow panels shall be mounted in traffic-worthy carriages and meet the requirements as specified in the current Standard Drawings. Payment for the arrow panels will be based on a contract unit price of "each" and will be full compensation for providing, placing, operating, relocating and maintaining the arrow panels.

The Contractor will have available one reserve arrow panel to be placed into operation in the event of damage or mechanical/electrical failure. No direct payment will be allowed for the reserve unit. All arrow panels will remain the property of the Contractor upon completion of the project.

BARRICADES

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain And Control Traffic according to Section 112.04.01. Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.04. Individual barricades will be measured only once for payment, regardless of the number of times they are set, reset, removed and relocated within the duration of the project. Replacements for damaged barricades or barricades directed to be replaced by the Engineer due to poor condition or reflectivity will not be measured for payment.

TRAFFIC CONTROL NOTES

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\TEMP\R0960BMT.DGN
USER: tvonbehren
DATE PLOTTED: November 6, 2017
E-SHEET NAME: R0960BMT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.2	R96c

MAINTENANCE OF TRAFFIC CONSTRUCTION ACCESS DETAIL (OUTSIDE TO INSIDE)

TEMPORARY CONCRETE BARRIER WALL

AFTER INSTALLATION OF THE INITIAL TEMPORARY BARRIER WALL, THE CONTRACTOR SHALL IMMEDIATELY BUILD DECELERATION/ACCELERATION LANE(S) ON THE MEDIAN SIDE OF THE TEMPORARY BARRIER WALL AT ALL TEMPORARY GATE LOCATIONS. THE TEMPORARY GATE LOCATIONS SHALL BE IN OPERATION A MAXIMUM OF 10 WORKING DAYS TO ALLOW ENOUGH TIME TO CONSTRUCT A FULL ACCESS POINT. FAILURE TO COMPLY WITH THIS NOTE SHALL RESULT IN A DISINCENTIVE OF $2,500/DAY.

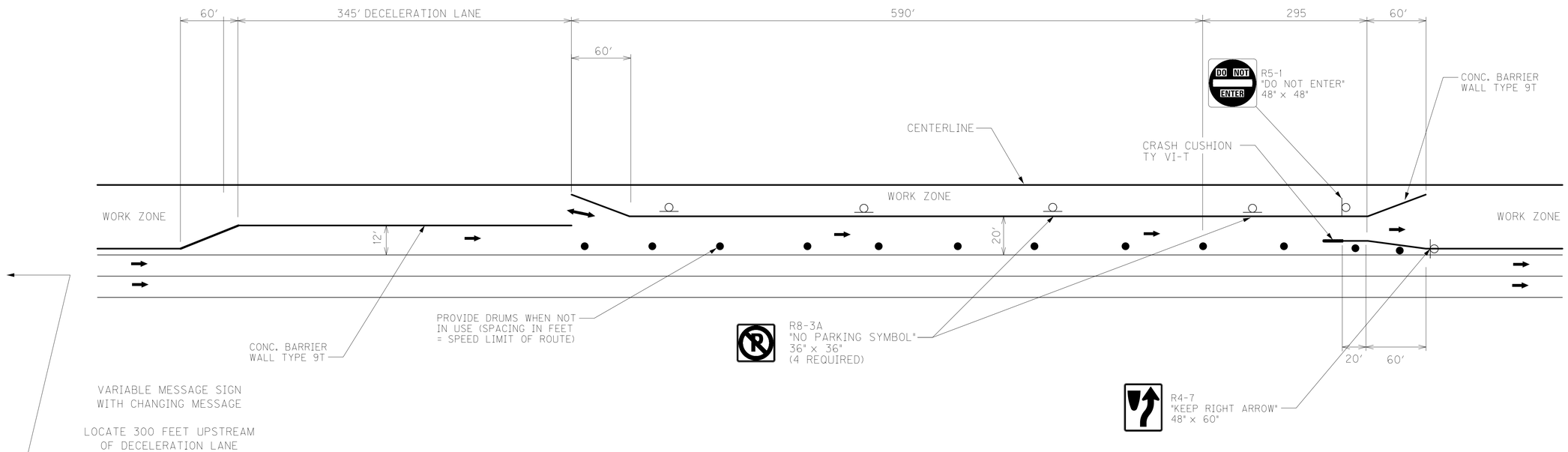
THE CONTRACTOR SHALL FURNISH THE TEMPORARY CONCRETE BARRIER WALLS AND INSTALL TEMPORARY CONCRETE BARRIER WALLS AS DIRECTED BY THE ENGINEER. THE TEMPORARY CONCRETE BARRIER WALL INSTALLATION SHALL BE COMPLETED WITHIN 10 WORKING DAYS OF BEGINNING CONSTRUCTION ACTIVITY REQUIRING PHYSICAL/POSITIVE SEPARATION FROM TRAFFIC. FAILURE TO COMPLY WITH THIS NOTE SHALL RESULT IN A DISINCENTIVE OF $2,500/DAY.

CONSTRUCTION SEQUENCE

1) PLACE BARRIER ON EDGE OF EXISTING PAVEMENT, AFTER MARKINGS HAVE BEEN PLACED TO SHIFT TRAFFIC RIGHT. PLACE BARRIER IN THE DOWNSTREAM DIRECTION.

2) SHIFT BARRIER OUT TO LOCATION SHOWN AND PLACE ALL SIGNS.

3) INSTALL CRASH CUSHION TYPE VI-T AT UPSTREAM END OF DOWNSTREAM BARRIER.



CAUTION CONSTRUCTION TRAFFIC	MESSAGE 1
ENTERING AND EXITING LEFT LANE	MESSAGE 2

NOTE:

THE CONTRACTOR WILL PROVIDE ONE VARIABLE MESSAGE SIGN - PORTABLE 3 LINE IN ADVANCE OF THE ACCESS OPENING. LOCATED BEHIND THE BARRIER WALL, IN EACH DIRECTION. THE SIGN WILL DISPLAY THE FOLLOWING MESSAGE AT ALL TIMES THAT THE ACCESS OPENING IS IN USE: "CAUTION CONSTRUCTION TRAFFIC ENTERING AND EXITING LEFT LANE".

ACCESS OPENING WILL BE SPACED AT NO LESS THAN 1 MILE PER DIRECTION. THE PROPOSED LOCATION OF THE ACCESS OPENING AND THE POSITION OF THE VARIABLE MESSAGE SIGN WILL BE APPROVED BY THE ENGINEER BEFORE BEING PLACED IN OPERATION.

THE PAVEMENT FOR THE ACCESS POINT IS PERMANENT PAVEMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONSTRUCTION OF ANY ACCESS OPENINGS. COSTS OF CRASH CUSHIONS, VARIABLE MESSAGE SIGNS, BARRIER SHIFTS, BARRELS, BARRICADES, CONES, ETC., WILL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR "MAINTAIN AND CONTROL TRAFFIC".

NOT TO SCALE

MAINTENANCE OF TRAFFIC
CONSTRUCTION ACCESS DETAIL

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USER: tvonbehren
DATE PLOTTED: September 4, 2017
E-SHEET NAME: R096ODMT
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COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.2	R96d

MAINTENANCE OF TRAFFIC CONSTRUCTION ACCESS DETAIL (INSIDE TO OUTSIDE)

TEMPORARY CONCRETE BARRIER WALL

AFTER INSTALLATION OF THE INITIAL TEMPORARY BARRIER WALL, THE CONTRACTOR SHALL IMMEDIATELY BUILD DECELERATION/ACCELERATION LANE(S) ON THE MEDIAN SIDE OF THE TEMPORARY BARRIER WALL AT ALL TEMPORARY GATE LOCATIONS. THE TEMPORARY GATE LOCATIONS SHALL BE IN OPERATION A MAXIMUM OF 10 WORKING DAYS TO ALLOW ENOUGH TIME TO CONSTRUCT A FULL ACCESS POINT. FAILURE TO COMPLY WITH THIS NOTE SHALL RESULT IN A DISINCENTIVE OF $2,500/DAY.

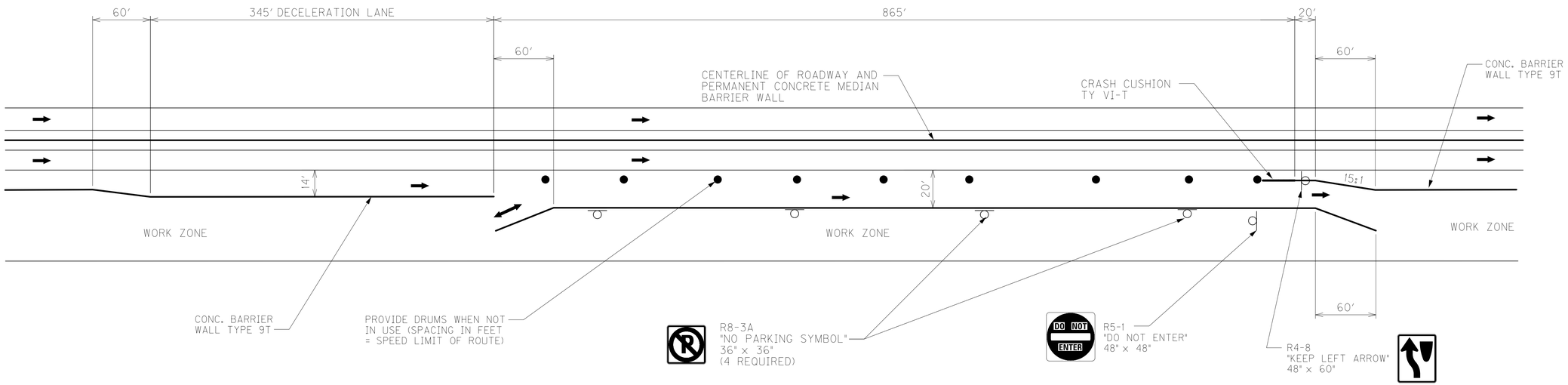
THE CONTRACTOR SHALL FURNISH THE TEMPORARY CONCRETE BARRIER WALLS AND INSTALL TEMPORARY CONCRETE BARRIER WALLS AS DIRECTED BY THE ENGINEER. THE TEMPORARY CONCRETE BARRIER WALL INSTALLATION SHALL BE COMPLETED WITHIN 10 WORKING DAYS OF BEGINNING CONSTRUCTION ACTIVITY REQUIRING PHYSICAL/POSITIVE SEPARATION FROM TRAFFIC. FAILURE TO COMPLY WITH THIS NOTE SHALL RESULT IN A DISINCENTIVE OF $2,500/DAY.

CONSTRUCTION SEQUENCE

1) PLACE BARRIER ON EDGE OF EXISTING PAVEMENT, AFTER MARKINGS HAVE BEEN PLACED TO SHIFT TRAFFIC LEFT. PLACE BARRIER IN THE DOWNSTREAM DIRECTION.

2) SHIFT BARRIER OUT TO LOCATION SHOWN AND PLACE ALL SIGNS.

3) INSTALL CRASH CUSHION TYPE VI-T AT UPSTREAM END OF DOWNSTREAM BARRIER.



VARIABLE MESSAGE SIGN WITH CHANGING MESSAGE

LOCATE 300 FEET UPSTREAM OF DECELERATION LANE

CAUTION CONSTRUCTION TRAFFIC	MESSAGE 1
ENTERING AND EXITING RIGHT LANE	MESSAGE 2

NOTE:

THE CONTRACTOR WILL PROVIDE ONE VARIABLE MESSAGE SIGN - PORTABLE 3 LINE IN ADVANCE OF THE ACCESS OPENING. LOCATED BEHIND THE BARRIER WALL, IN EACH DIRECTION. THE SIGN WILL DISPLAY THE FOLLOWING MESSAGE AT ALL TIMES THAT THE ACCESS OPENING IS IN USE: "CAUTION CONSTRUCTION TRAFFIC ENTERING AND EXITING RIGHT LANE".

ACCESS OPENING WILL BE SPACED AT NO LESS THAN 1 MILE PER DIRECTION. THE PROPOSED LOCATION OF THE ACCESS OPENING AND THE POSITION OF THE VARIABLE MESSAGE SIGN WILL BE APPROVED BY THE ENGINEER BEFORE BEING PLACED IN OPERATION.

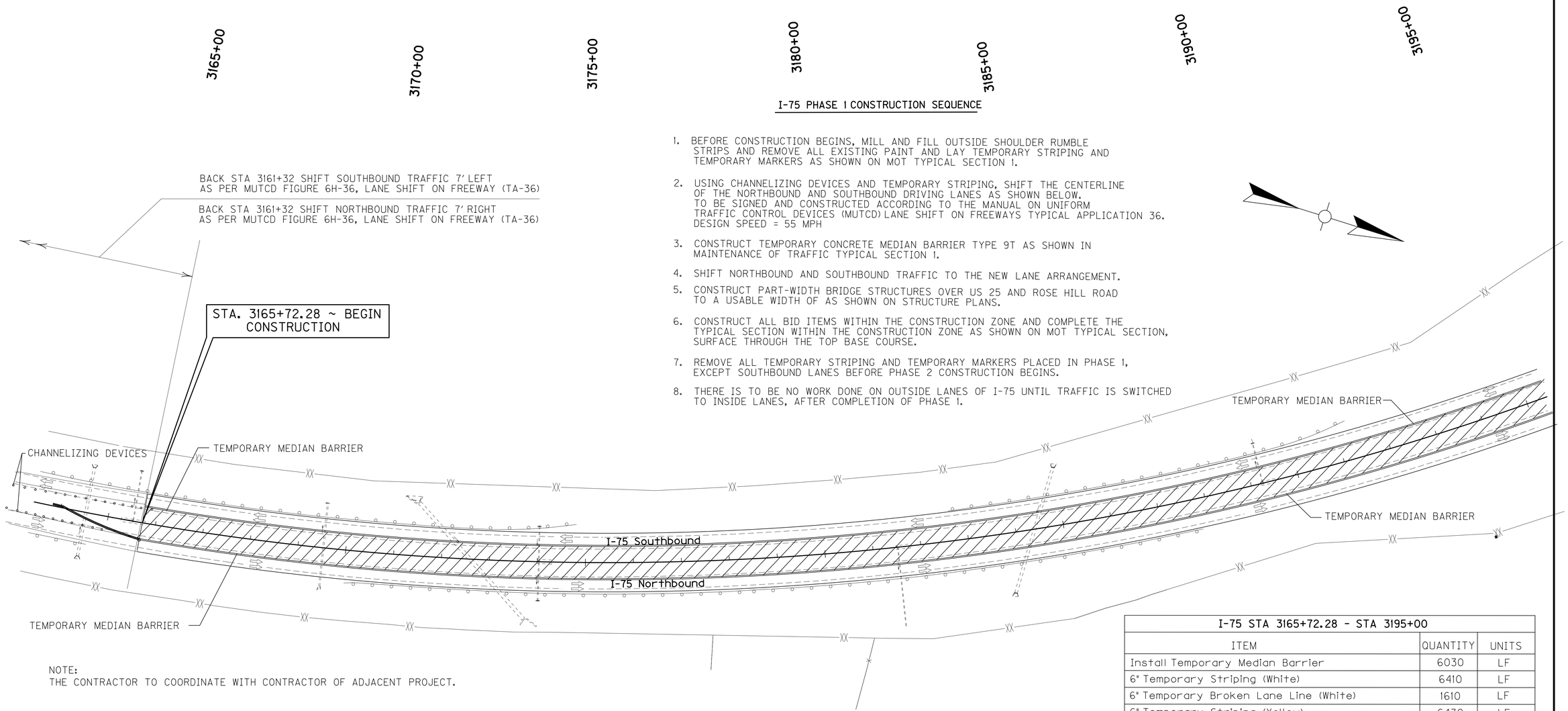
THE PAVEMENT FOR THE ACCESS POINT IS PERMANENT PAVEMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONSTRUCTION OF ANY ACCESS OPENINGS. COSTS OF CRASH CUSHIONS, VARIABLE MESSAGE SIGNS, BARRIER SHIFTS, BARRELS, BARRICADES, CONES, ETC., WILL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR "MAINTAIN AND CONTROL TRAFFIC".

NOT TO SCALE

MAINTENANCE OF TRAFFIC
CONSTRUCTION ACCESS DETAIL

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R9960DMT.DGN
USER: tvonbehren
DATE PLOTTED: September 4, 2017
E-SHEET NAME: R9960CMT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R97

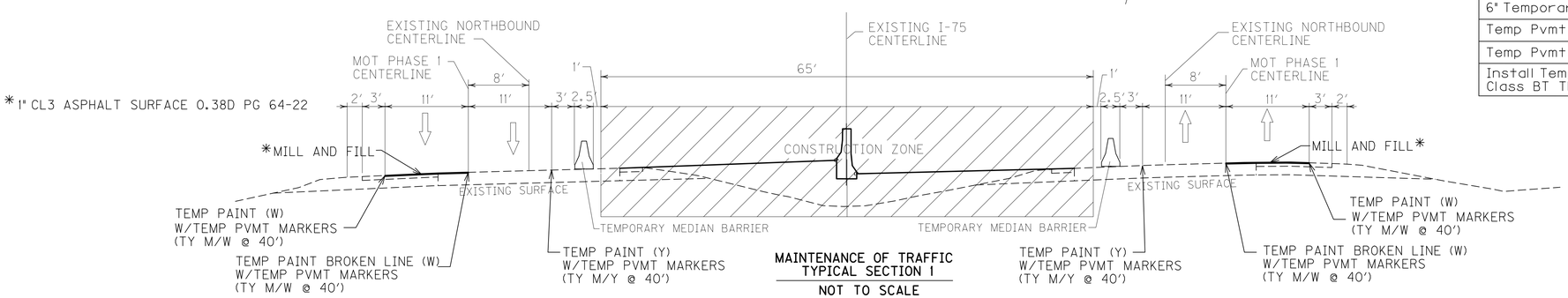


I-75 PHASE 1 CONSTRUCTION SEQUENCE

1. BEFORE CONSTRUCTION BEGINS, MILL AND FILL OUTSIDE SHOULDER RUMBLE STRIPS AND REMOVE ALL EXISTING PAINT AND LAY TEMPORARY STRIPING AND TEMPORARY MARKERS AS SHOWN ON MOT TYPICAL SECTION 1.
2. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE CENTERLINE OF THE NORTHBOUND AND SOUTHBOUND DRIVING LANES AS SHOWN BELOW. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
3. CONSTRUCT TEMPORARY CONCRETE MEDIAN BARRIER TYPE 9T AS SHOWN IN MAINTENANCE OF TRAFFIC TYPICAL SECTION 1.
4. SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
5. CONSTRUCT PART-WIDTH BRIDGE STRUCTURES OVER US 25 AND ROSE HILL ROAD TO A USABLE WIDTH OF AS SHOWN ON STRUCTURE PLANS.
6. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
7. REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS PLACED IN PHASE 1, EXCEPT SOUTHBOUND LANES BEFORE PHASE 2 CONSTRUCTION BEGINS.
8. THERE IS TO BE NO WORK DONE ON OUTSIDE LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO INSIDE LANES, AFTER COMPLETION OF PHASE 1.

NOTE:
THE CONTRACTOR TO COORDINATE WITH CONTRACTOR OF ADJACENT PROJECT.

I-75 STA 3165+72.28 - STA 3195+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6030	LF
6" Temporary Striping (White)	6410	LF
6" Temporary Broken Lane Line (White)	1610	LF
6" Temporary Striping (Yellow)	6430	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	320	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA
Install Temporary Crash Cushion Type VI Class BT TL3 (Median Sta 3164+04)	1	EA



MAINTENANCE OF TRAFFIC
TYPICAL SECTION 1
NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

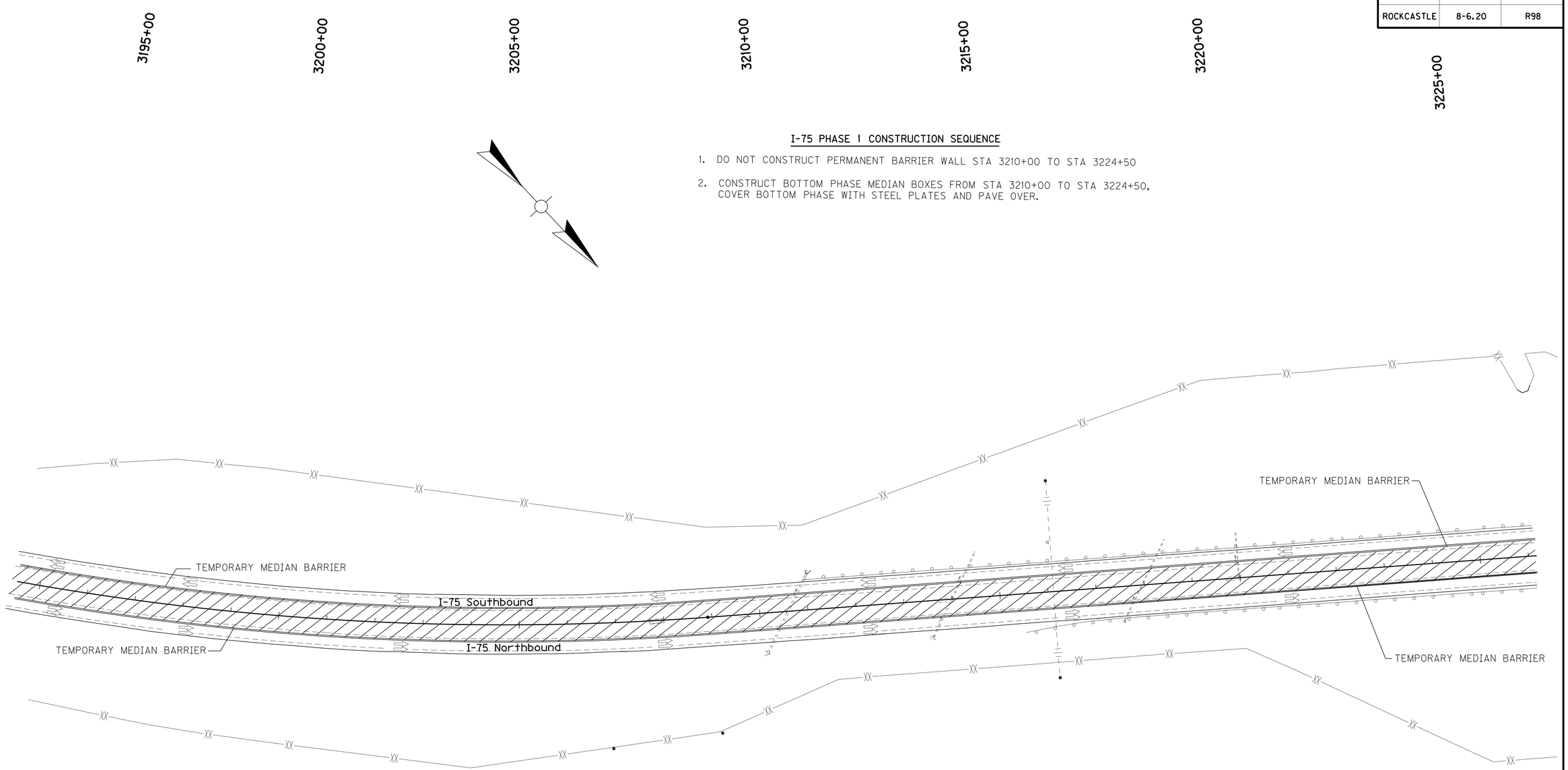
MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 1 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R97TOOMT.DGN
USER: lstaggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R98

I-75 PHASE 1 CONSTRUCTION SEQUENCE

1. DO NOT CONSTRUCT PERMANENT BARRIER WALL STA 3210+00 TO STA 3224+50
2. CONSTRUCT BOTTOM PHASE MEDIAN BOXES FROM STA 3210+00 TO STA 3224+50, COVER BOTTOM PHASE WITH STEEL PLATES AND PAVE OVER.



I-75 STA 3195+00 - STA 3226+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6200	LF
6" Temporary Striping (White)	6200	LF
6" Temporary Broken Lane Line (White)	1550	LF
6" Temporary Striping (Yellow)	6200	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	310	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	155	EA

LEGEND

LOCATION OF TRAFFIC

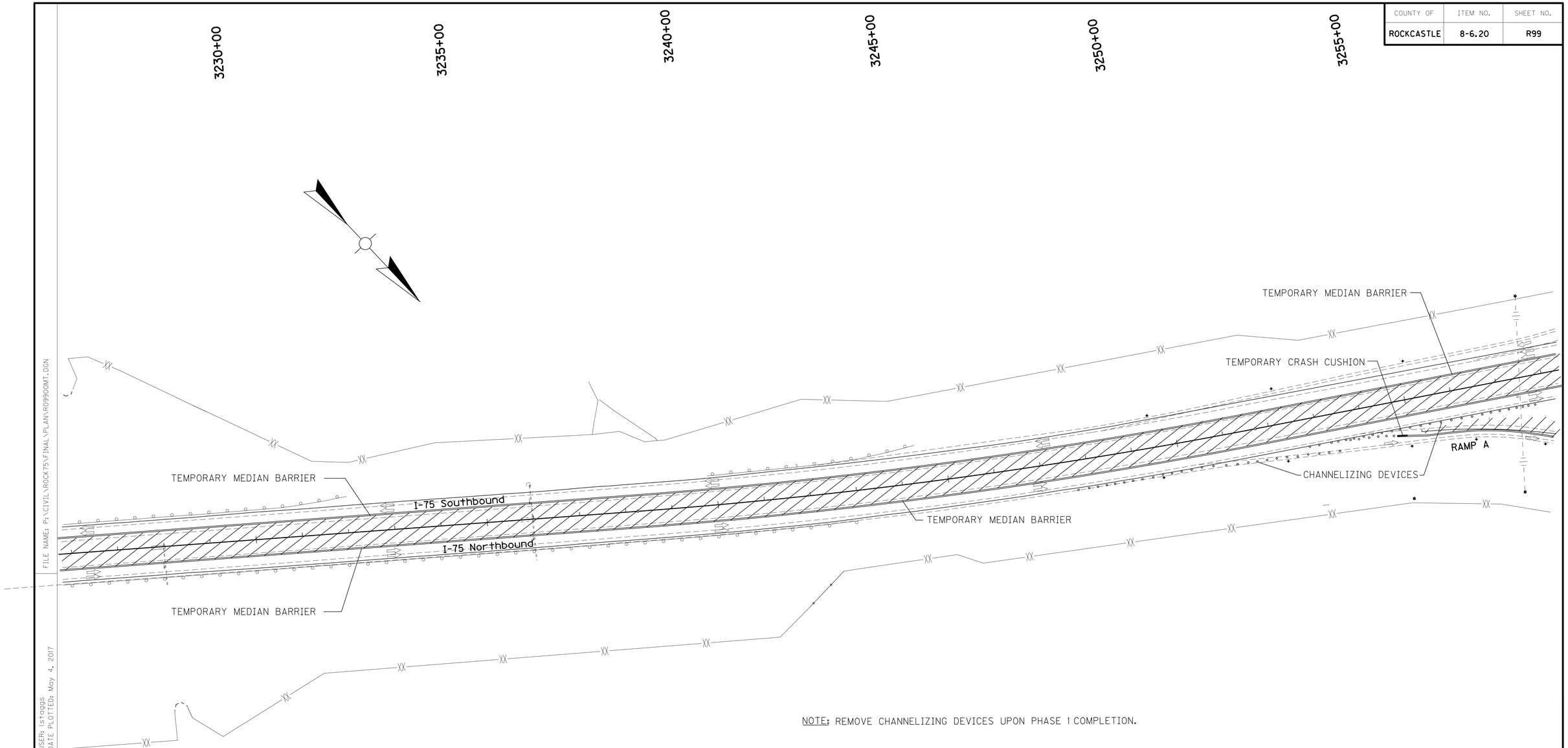
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 2 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R09800MT.DGN
USER: lstaggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R99



NOTE: REMOVE CHANNELIZING DEVICES UPON PHASE 1 COMPLETION.

I-75 STA 3226+00 - STA 3258+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6400	LF
6" Temporary Striping (White)	5250	LF
6" Temporary Broken Lane Line (White)	1600	LF
6" Temporary Striping (Yellow)	6400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	290	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 3 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R99900MT.DGN
USER: lstaggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

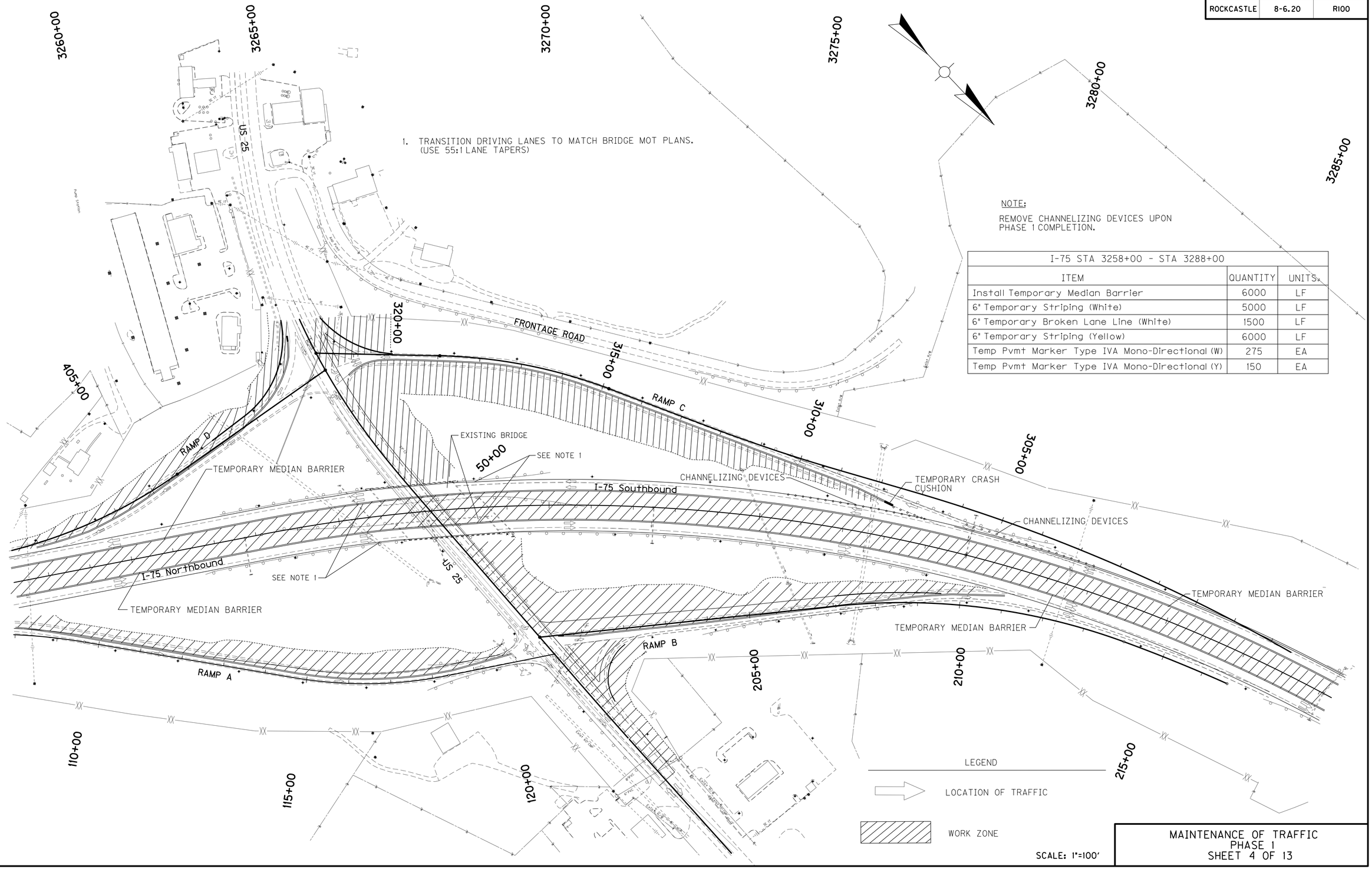
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R100

1. TRANSITION DRIVING LANES TO MATCH BRIDGE MOT PLANS. (USE 55:1 LANE TAPERS)

NOTE:

REMOVE CHANNELIZING DEVICES UPON PHASE 1 COMPLETION.

I-75 STA 3258+00 - STA 3288+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6000	LF
6" Temporary Striping (White)	5000	LF
6" Temporary Broken Lane Line (White)	1500	LF
6" Temporary Striping (Yellow)	6000	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	275	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	150	EA

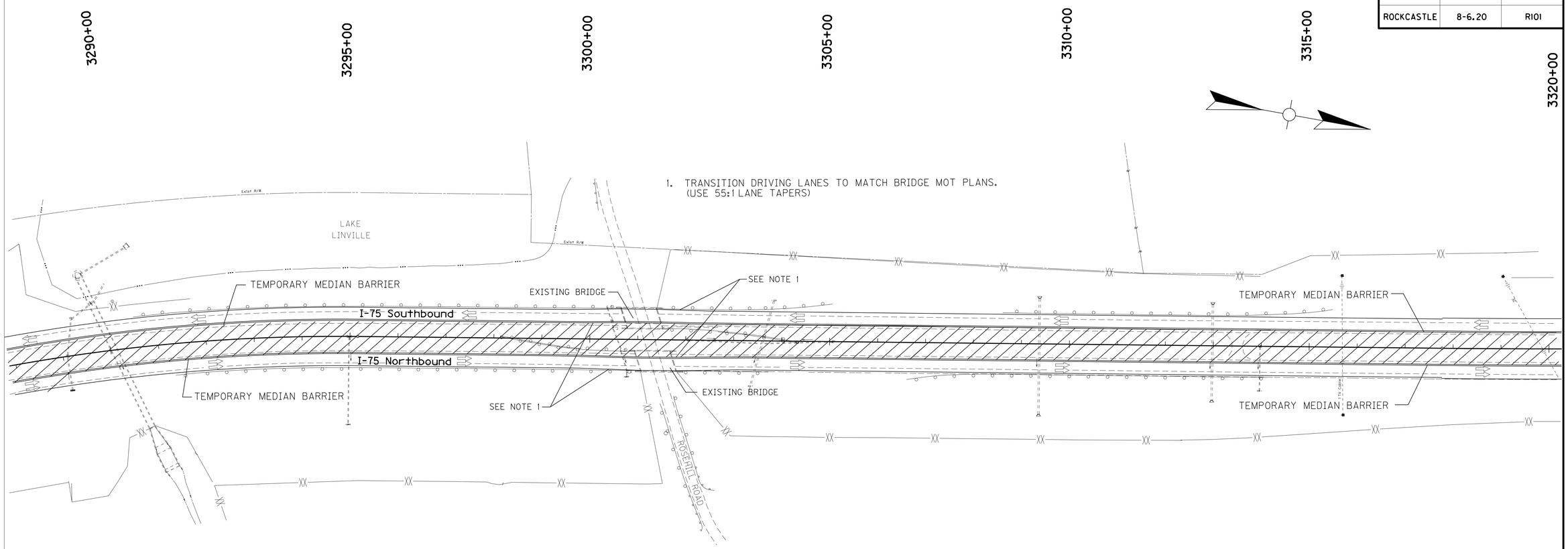


SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 4 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R10000MT.DGN
USER: lstaggs
DATE PLOTTED: August 31, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R101



I-75 STA 3288+00 - STA 3320+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6400	LF
6" Temporary Striping (White)	6400	LF
6" Temporary Broken Lane Line (White)	1600	LF
6" Temporary Striping (Yellow)	6400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	160	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	320	EA

LEGEND

LOCATION OF TRAFFIC

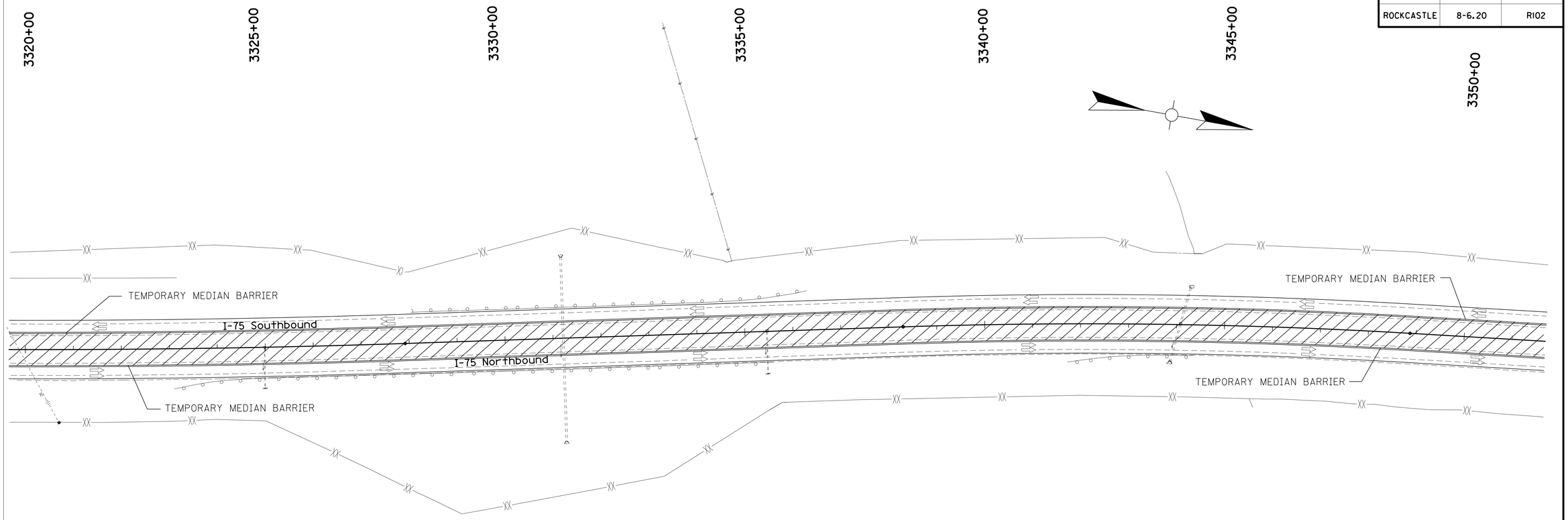
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 5 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R101DOMT.DGN
USER: lstaggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R102



I-75 STA 3320+00 - STA 3351+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6200	LF
6" Temporary Striping (White)	6200	LF
6" Temporary Broken Lane Line (White)	1550	LF
6" Temporary Striping (Yellow)	6200	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	310	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	155	EA

LEGEND

LOCATION OF TRAFFIC

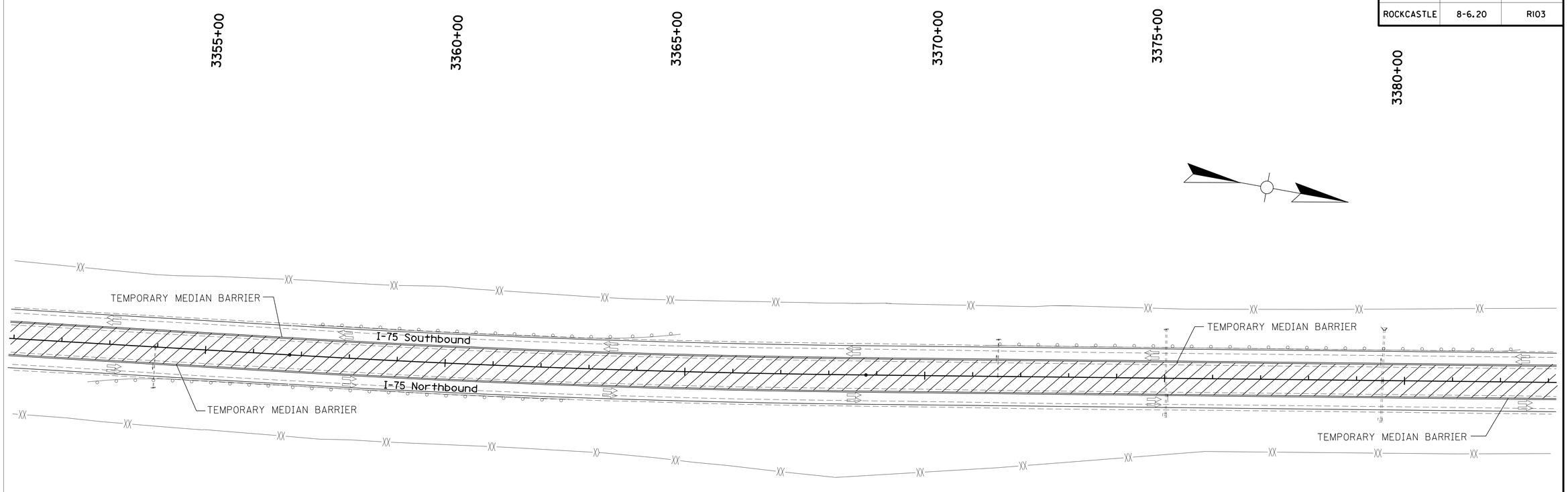
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 6 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R10200MT.DGN
USER: lstoggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R103



I-75 STA 3351+00 - STA 3383+00		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	6400	LF
6" Temporary Striping (White)	6400	LF
6" Temporary Broken Lane Line (White)	1600	LF
6" Temporary Striping (Yellow)	6400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	320	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

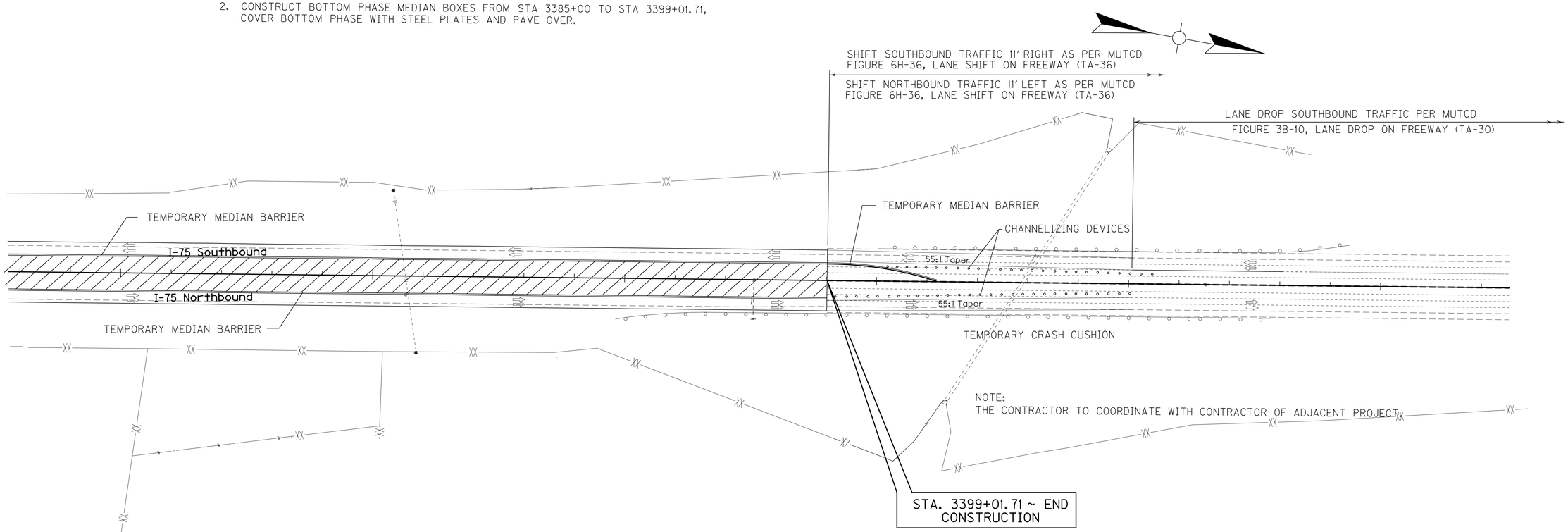
MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 7 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R103OOMT.DGN
USER: tbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R104

I-75 PHASE 1 CONSTRUCTION SEQUENCE

1. DO NOT CONSTRUCT PERMANENT BARRIER WALL STA 3385+00 TO STA 3399+01.71.
2. CONSTRUCT BOTTOM PHASE MEDIAN BOXES FROM STA 3385+00 TO STA 3399+01.71, COVER BOTTOM PHASE WITH STEEL PLATES AND PAVE OVER.



I-75 STA 3383+00 - STA 3403+42		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	3540	LF
Install Temporary Crash Cushion Type IV Class BT TL3 (Median Sta 3400+95)	1	EA
6" Temporary Striping (White)	4080	LF
6" Temporary Broken Lane Line (White)	1020	LF
6" Temporary Striping (Yellow)	4080	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	204	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	103	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

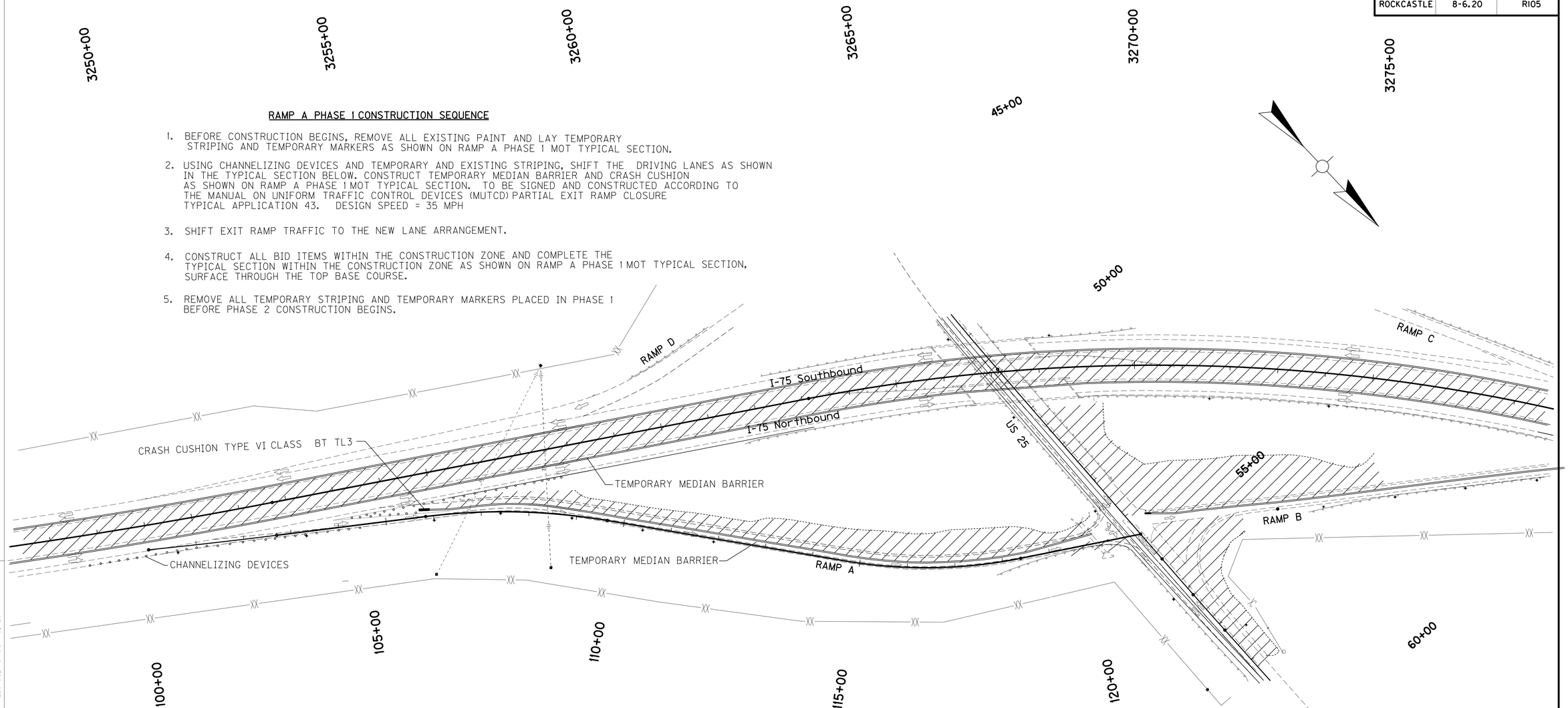
MAINTENANCE OF TRAFFIC
PHASE 1
SHEET 8 OF 13

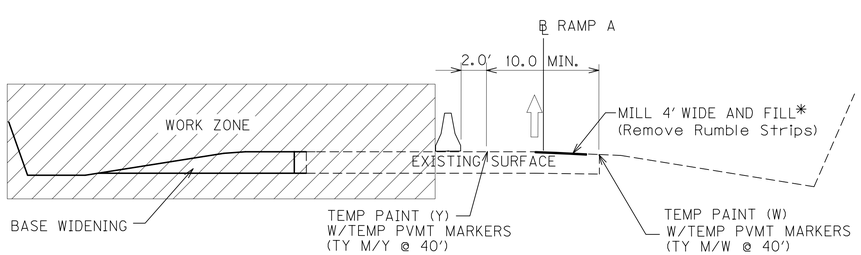
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R104GOMT.DGN
USER: lstaggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R105

RAMP A PHASE 1 CONSTRUCTION SEQUENCE

1. BEFORE CONSTRUCTION BEGINS, REMOVE ALL EXISTING PAINT AND LAY TEMPORARY STRIPING AND TEMPORARY MARKERS AS SHOWN ON RAMP A PHASE 1 MOT TYPICAL SECTION.
2. USING CHANNELIZING DEVICES AND TEMPORARY AND EXISTING STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AND CRASH CUSHION AS SHOWN ON RAMP A PHASE 1 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PARTIAL EXIT RAMP CLOSURE TYPICAL APPLICATION 43. DESIGN SPEED = 35 MPH
3. SHIFT EXIT RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP A PHASE 1 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
5. REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS PLACED IN PHASE 1 BEFORE PHASE 2 CONSTRUCTION BEGINS.





RAMP A MOT PHASE 1 TYPICAL SECTION

NOT TO SCALE

*1" CL3 ASPHALT SURFACE 0.38D PG 64-22

RAMP A STA 105+42.63 - STA 120+65.65		
ITEM	QUANTITY	UNITS
Install Temporary Crash Cushion Type VI Class BT TL3 (LT Sta 105+93)	1	EA
Install Temporary Median Barrier	1400	LF
6" Temporary Striping (White)	2080	LF
6" Temporary Striping (Yellow)	1400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	82	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	35	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

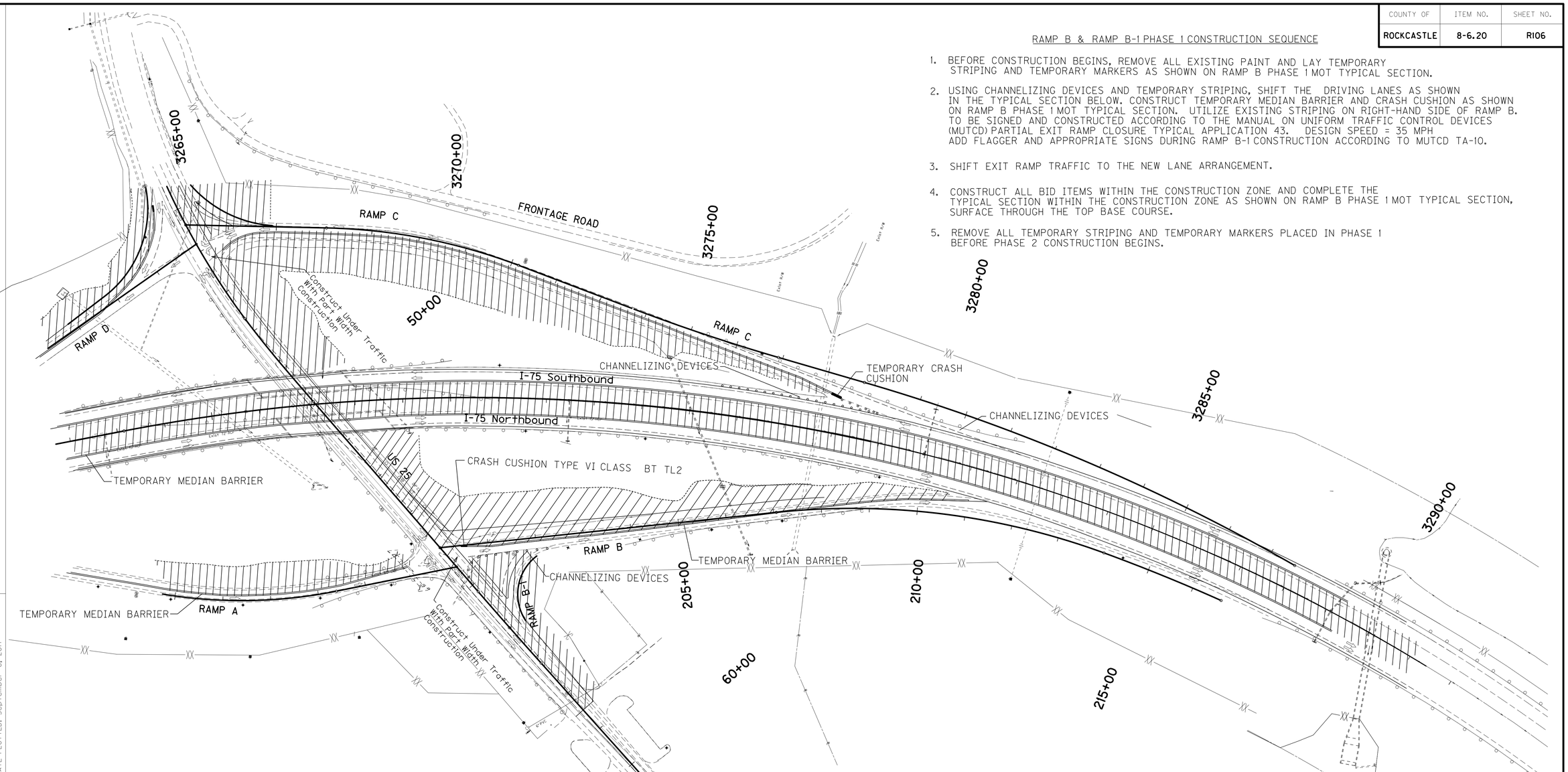
MAINTENANCE OF TRAFFIC
RAMP A - PHASE 1
SHEET 9 OF 13

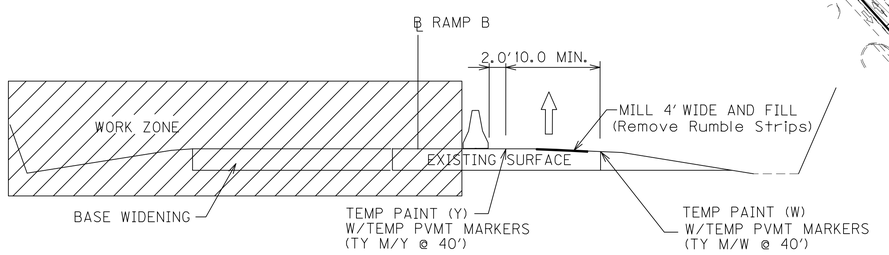
FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R105OMT.DGN
USER: tvonbehren
DATE PLOTTED: September 6, 2017
E-SHEET NAME: R105OMT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R106

RAMP B & RAMP B-1 PHASE 1 CONSTRUCTION SEQUENCE

1. BEFORE CONSTRUCTION BEGINS, REMOVE ALL EXISTING PAINT AND LAY TEMPORARY STRIPING AND TEMPORARY MARKERS AS SHOWN ON RAMP B PHASE 1 MOT TYPICAL SECTION.
2. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AND CRASH CUSHION AS SHOWN ON RAMP B PHASE 1 MOT TYPICAL SECTION. UTILIZE EXISTING STRIPING ON RIGHT-HAND SIDE OF RAMP B. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PARTIAL EXIT RAMP CLOSURE TYPICAL APPLICATION 43. DESIGN SPEED = 35 MPH ADD FLAGGER AND APPROPRIATE SIGNS DURING RAMP B-1 CONSTRUCTION ACCORDING TO MUTCD TA-10.
3. SHIFT EXIT RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP B PHASE 1 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
5. REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS PLACED IN PHASE 1 BEFORE PHASE 2 CONSTRUCTION BEGINS.





RAMP B MOT PHASE 1 TYPICAL SECTION

NOT TO SCALE

*1" CL3 ASPHALT SURFACE 0.38D PG 64-22

RAMP B STA 200+30.49 - STA 216+22.86		
ITEM	QUANTITY	UNITS
Install Temporary Crash Cushion Type VI Class BT TL2 (Lt Sta 200+56)	1	EA
Install Temporary Median Barrier	1100	LF
6" Temporary Striping (White)	1480	LF
6" Temporary Striping (Yellow)	1270	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	37	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	32	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
RAMP B - PHASE 1
SHEET 10 OF 13

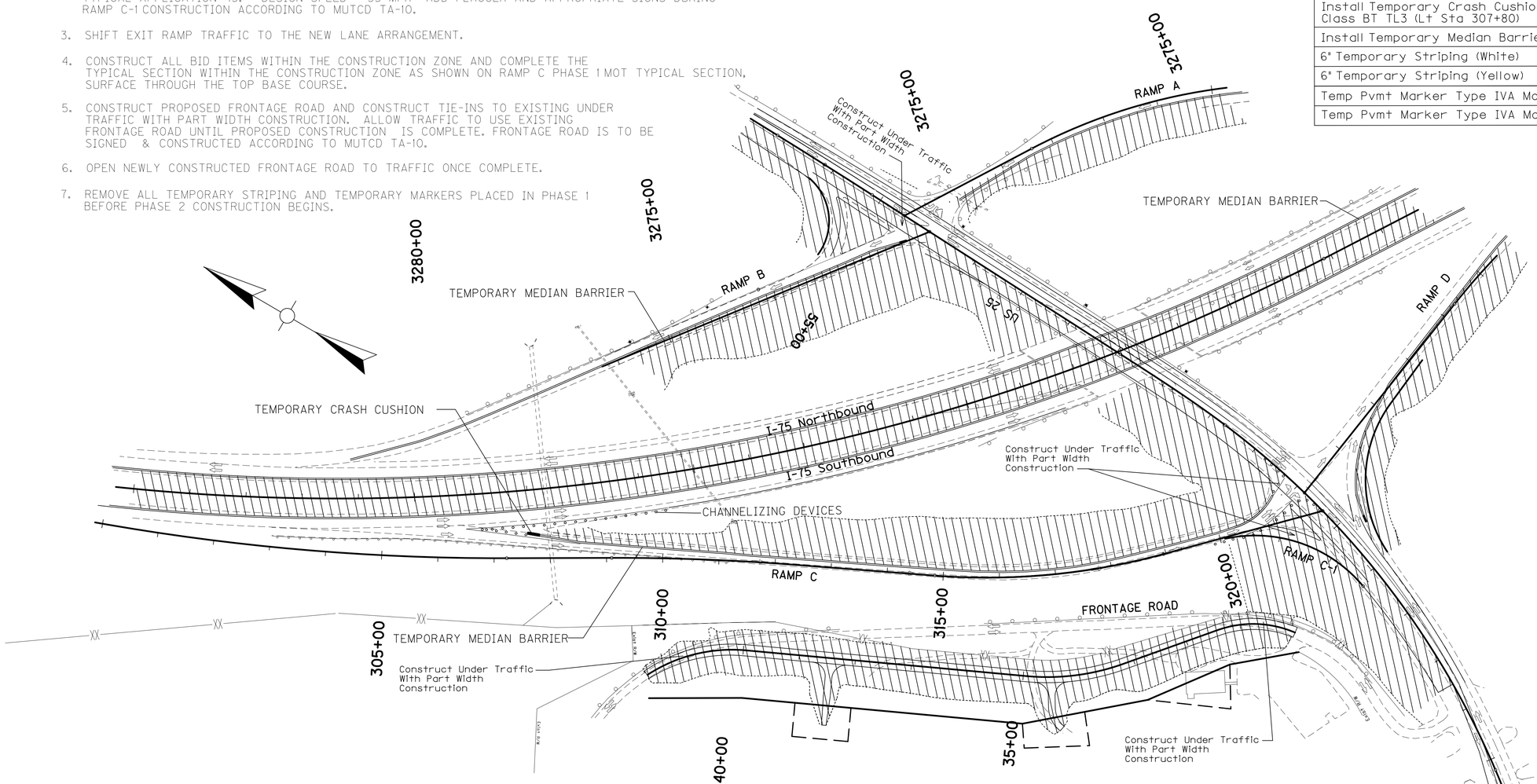
FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R106GOMT.DGN
USER: tvonbehren
DATE PLOTTED: September 6, 2017
E-SHEET NAME: R106GOMT
MicroStation v8.11.7.443

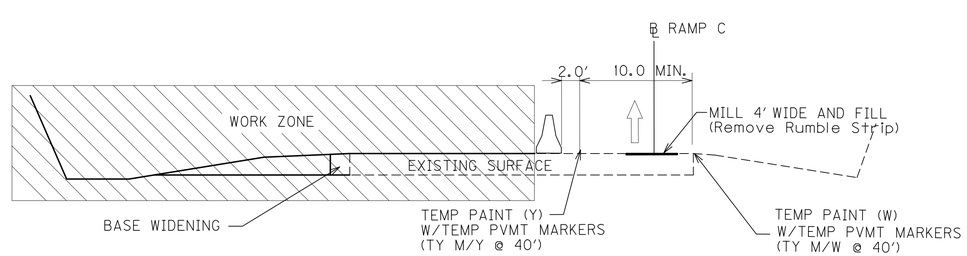
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R107

RAMP C, RAMP C-1, & FRONTAGE ROAD PHASE 1 CONSTRUCTION SEQUENCE

1. BEFORE CONSTRUCTION BEGINS, REMOVE ALL EXISTING PAINT AND LAY TEMPORARY STRIPING AND TEMPORARY MARKERS AS SHOWN ON RAMP C PHASE 1 MOT TYPICAL SECTION.
2. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AND CRASH CUSHION AS SHOWN ON RAMP C PHASE 1 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PARTIAL EXIT RAMP CLOSURE TYPICAL APPLICATION 43. DESIGN SPEED = 35 MPH ADD FLAGGER AND APPROPRIATE SIGNS DURING RAMP C-1 CONSTRUCTION ACCORDING TO MUTCD TA-10.
3. SHIFT EXIT RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP C PHASE 1 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
5. CONSTRUCT PROPOSED FRONTAGE ROAD AND CONSTRUCT TIE-INS TO EXISTING UNDER TRAFFIC WITH PART WIDTH CONSTRUCTION. ALLOW TRAFFIC TO USE EXISTING FRONTAGE ROAD UNTIL PROPOSED CONSTRUCTION IS COMPLETE. FRONTAGE ROAD IS TO BE SIGNED & CONSTRUCTED ACCORDING TO MUTCD TA-10.
6. OPEN NEWLY CONSTRUCTED FRONTAGE ROAD TO TRAFFIC ONCE COMPLETE.
7. REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS PLACED IN PHASE 1 BEFORE PHASE 2 CONSTRUCTION BEGINS.

RAMP C STA 302+95.60 - STA 321+60.32		
ITEM	QUANTITY	UNITS
Install Temporary Crash Cushion Type VI Class BT TL3 (Lt Sta 307+80)	1	EA
Install Temporary Median Barrier	1340	LF
6" Temporary Striping (White)	1650	LF
6" Temporary Striping (Yellow)	1340	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	42	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	34	EA





RAMP C MOT PHASE 1 TYPICAL SECTION

NOT TO SCALE

*1" CL3 ASPHALT SURFACE 0.38D PG 64-22

LEGEND

LOCATION OF TRAFFIC

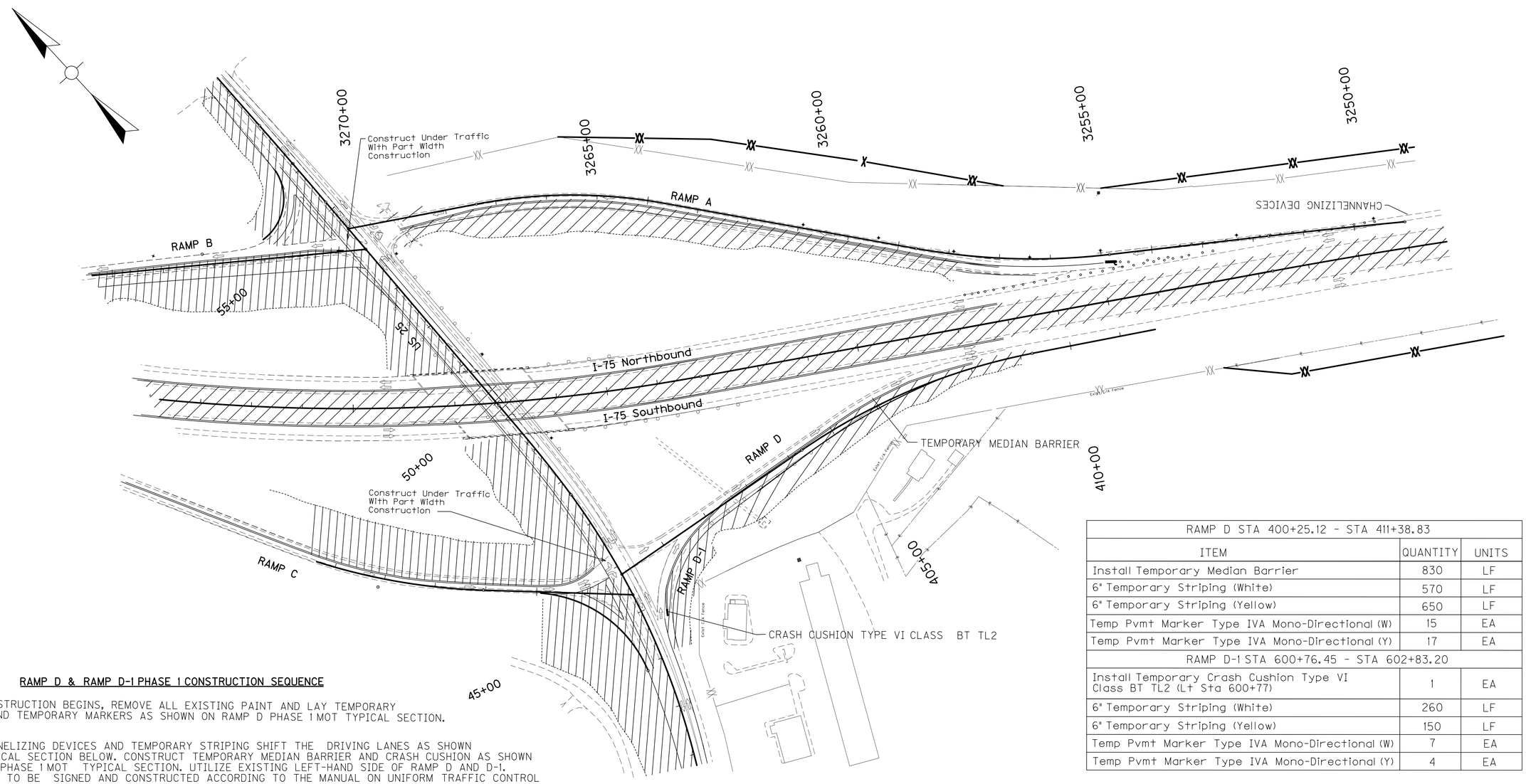
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
RAMP C AND FRONTAGE ROAD
PHASE 1 SHEET 11 OF 13

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R107OOMT.DGN
USER: tvonbehren
DATE PLOTTED: September 6, 2017
E-SHEET NAME: R107OOMT
MicroStation v8.11.7.443

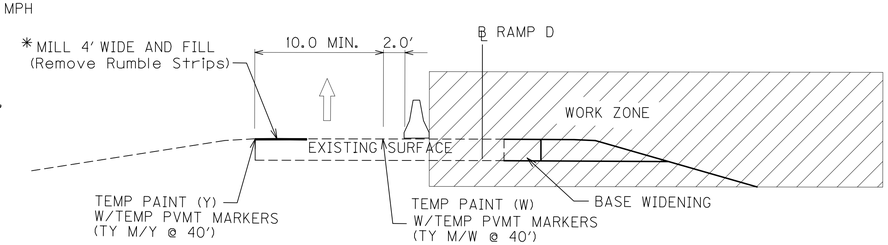
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R108



RAMP D STA 400+25.12 - STA 411+38.83		
ITEM	QUANTITY	UNITS
Install Temporary Median Barrier	830	LF
6" Temporary Striping (White)	570	LF
6" Temporary Striping (Yellow)	650	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	15	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	17	EA
RAMP D-1 STA 600+76.45 - STA 602+83.20		
Install Temporary Crash Cushion Type VI Class BT TL2 (Lt Sta 600+77)	1	EA
6" Temporary Striping (White)	260	LF
6" Temporary Striping (Yellow)	150	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	7	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	4	EA

RAMP D & RAMP D-1 PHASE 1 CONSTRUCTION SEQUENCE

1. BEFORE CONSTRUCTION BEGINS, REMOVE ALL EXISTING PAINT AND LAY TEMPORARY STRIPING AND TEMPORARY MARKERS AS SHOWN ON RAMP D PHASE 1 MOT TYPICAL SECTION.
2. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AND CRASH CUSHION AS SHOWN ON RAMP D PHASE 1 MOT TYPICAL SECTION. UTILIZE EXISTING LEFT-HAND SIDE OF RAMP D AND D-1. BOTH RAMPS TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WORK IN VICINITY OF ENTRANCE RAMP TYPICAL APPLICATION 44. DESIGN SPEED = 35 MPH
3. SHIFT ENTRANCE RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP D PHASE 1 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
5. REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS PLACED IN PHASE 1 BEFORE PHASE 2 CONSTRUCTION BEGINS.



*1" CL3 ASPHALT SURFACE 0.38D PG 64-22

RAMP D MOT PHASE 1 TYPICAL SECTION

NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
RAMP D - PHASE 1
SHEET 12 OF 13

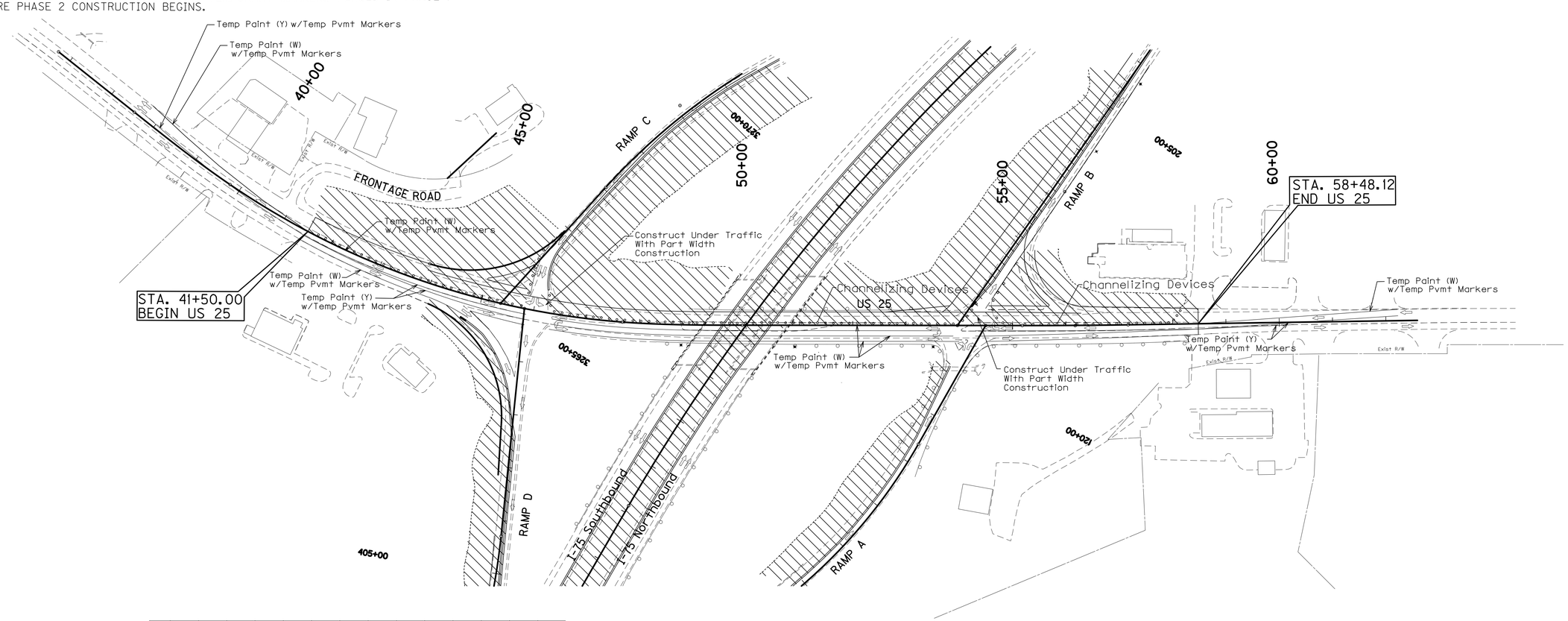
FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R108OMT.DGN
USER: tvonbehren
DATE PLOTTED: September 6, 2017
E-SHEET NAME: R108OMT
MicroStation v8.11.7.443

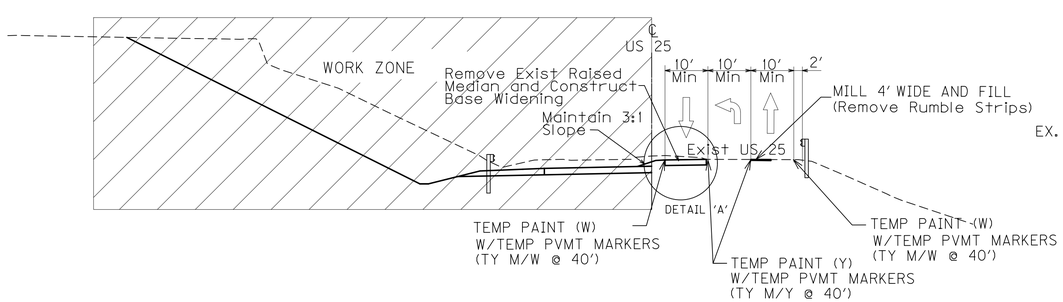
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R109

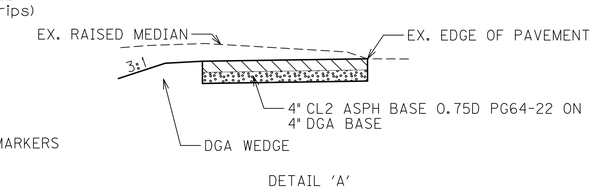
US 25 PHASE 1 CONSTRUCTION SEQUENCE

1. BEFORE CONSTRUCTION BEGINS, REMOVE ALL EXISTING PAINT AND LAY TEMPORARY STRIPING AND TEMPORARY MARKERS AS SHOWN ON US 25 PHASE 1 MOT TYPICAL SECTION.
2. USING CHANNELIZING DEVICES AND TEMPORARY AND EXISTING STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW ON US 25 PHASE 1 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT TYPICAL APPLICATION 36. DESIGN SPEED = 35 MPH
3. SHIFT US 25 TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON US 25 PHASE 1 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
5. REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS PLACED IN PHASE 1 BEFORE PHASE 2 CONSTRUCTION BEGINS.

US 25 STA 41+50 - STA 58+48.12		
ITEM	QUANTITY	UNITS
6" Temporary Striping (White)	4775	LF
6" Temporary Striping (Yellow)	3400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	120	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	85	EA







LEGEND

LOCATION OF TRAFFIC

WORK ZONE

* 1" CL3 ASPHALT SURFACE 0.38D PG 64-22

US 25 MOT PHASE 1 TYPICAL SECTION

NOT TO SCALE

SCALE: 1"=100'

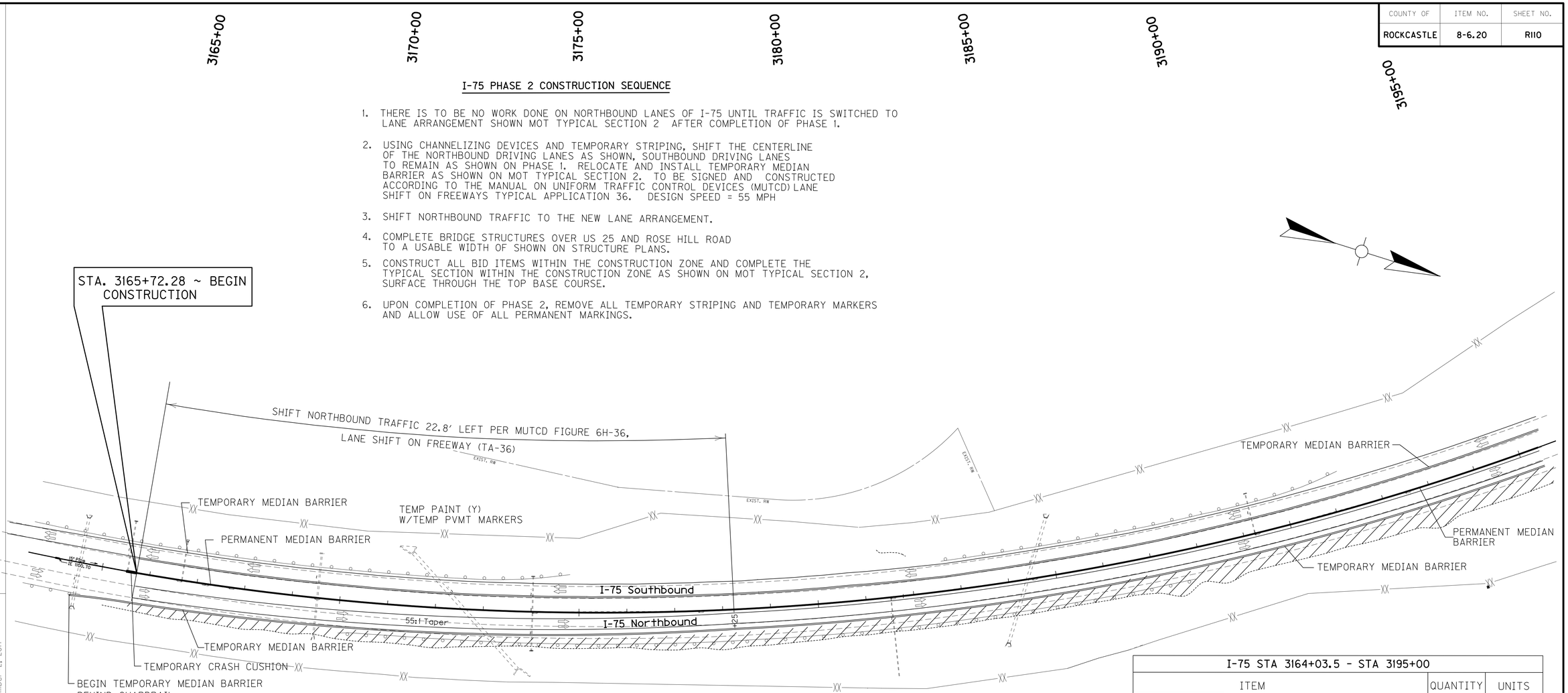
MAINTENANCE OF TRAFFIC
US 25 - PHASE 1
SHEET 13 OF 13

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R109OMT.DGN
USER: tvonbehren
DATE PLOTTED: September 6, 2017
E-SHEET NAME: R109OMT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R110

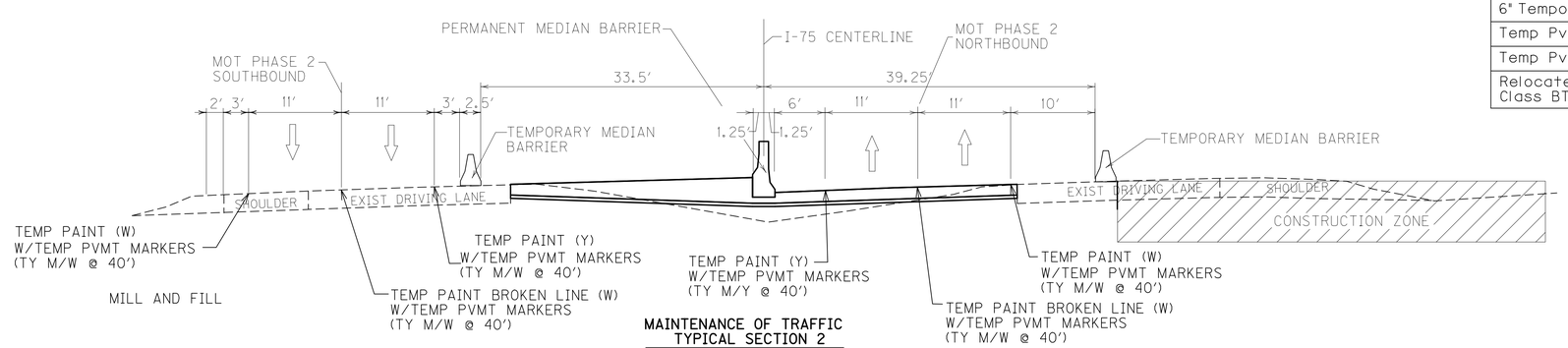
I-75 PHASE 2 CONSTRUCTION SEQUENCE

1. THERE IS TO BE NO WORK DONE ON NORTHBOUND LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO LANE ARRANGEMENT SHOWN MOT TYPICAL SECTION 2 AFTER COMPLETION OF PHASE 1.
2. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE CENTERLINE OF THE NORTHBOUND DRIVING LANES AS SHOWN, SOUTHBOUND DRIVING LANES TO REMAIN AS SHOWN ON PHASE 1. RELOCATE AND INSTALL TEMPORARY MEDIAN BARRIER AS SHOWN ON MOT TYPICAL SECTION 2. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
3. SHIFT NORTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. COMPLETE BRIDGE STRUCTURES OVER US 25 AND ROSE HILL ROAD TO A USABLE WIDTH OF SHOWN ON STRUCTURE PLANS.
5. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT TYPICAL SECTION 2, SURFACE THROUGH THE TOP BASE COURSE.
6. UPON COMPLETION OF PHASE 2, REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.



NOTE:
THE CONTRACTOR TO COORDINATE WITH CONTRACTOR OF ADJACENT PROJECT.

I-75 STA 3164+03.5 - STA 3195+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3075	LF
6" Temporary Striping (White)	2945	LF
6" Temporary Broken Lane Line (White)	736	LF
6" Temporary Striping (Yellow)	2945	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	147	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	75	EA
Relocate Temporary Crash Cushion Type VI Class BT TL3 (Median Sta 3165+72.3)	1	EA



MAINTENANCE OF TRAFFIC
TYPICAL SECTION 2
NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

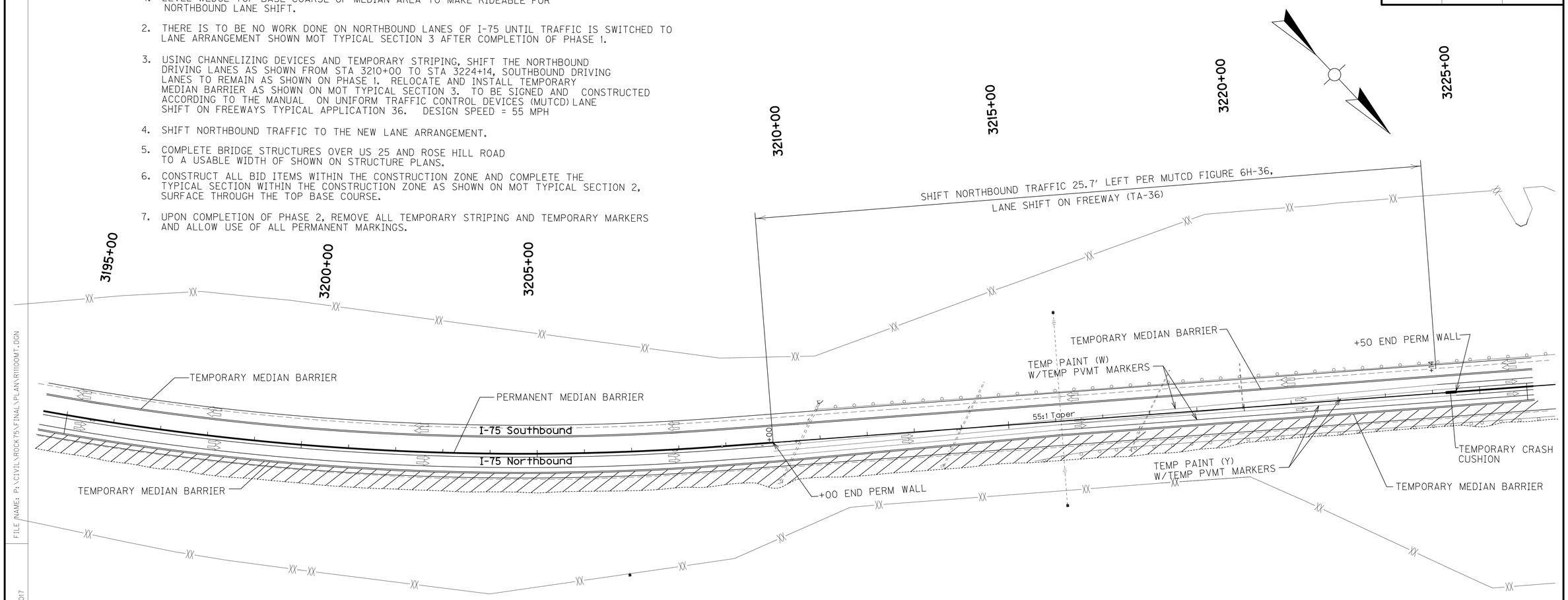
MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 1 OF 13

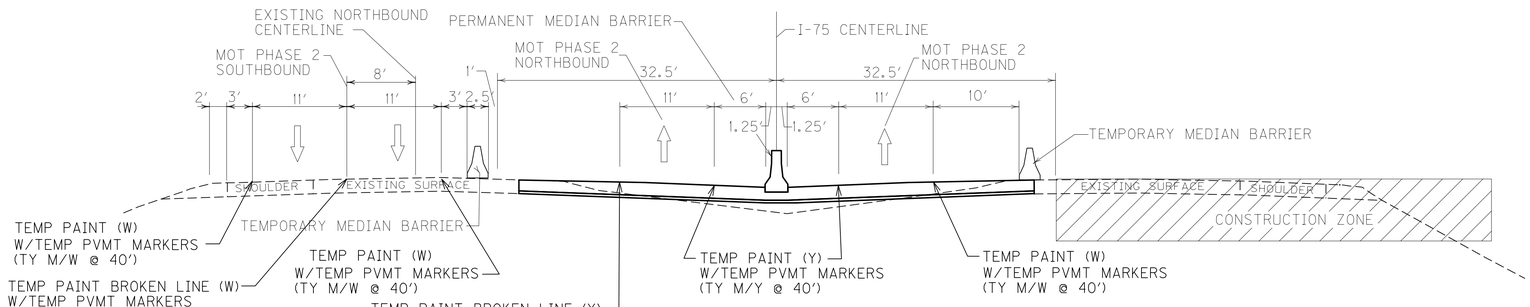
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R1000MT.DGN
USER: lstaggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R111

I-75 PHASE 2 CONSTRUCTION SEQUENCE

1. LEVEL WEDGE TOP BASE COARSE OF MEDIAN AREA TO MAKE RIDEABLE FOR NORTHBOUND LANE SHIFT.
2. THERE IS TO BE NO WORK DONE ON NORTHBOUND LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO LANE ARRANGEMENT SHOWN MOT TYPICAL SECTION 3 AFTER COMPLETION OF PHASE 1.
3. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE NORTHBOUND DRIVING LANES AS SHOWN FROM STA 3210+00 TO STA 3224+14, SOUTHBOUND DRIVING LANES TO REMAIN AS SHOWN ON PHASE 1. RELOCATE AND INSTALL TEMPORARY MEDIAN BARRIER AS SHOWN ON MOT TYPICAL SECTION 3. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
4. SHIFT NORTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
5. COMPLETE BRIDGE STRUCTURES OVER US 25 AND ROSE HILL ROAD TO A USABLE WIDTH OF SHOWN ON STRUCTURE PLANS.
6. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT TYPICAL SECTION 2, SURFACE THROUGH THE TOP BASE COURSE.
7. UPON COMPLETION OF PHASE 2, REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.





MAINTENANCE OF TRAFFIC
TYPICAL SECTION 3

NOT TO SCALE

I-75 STA 3195+00 - STA 3226+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3125	LF
6" Temporary Striping (White)	4710	LF
6" Temporary Broken Lane Line (White)	377	LF
6" Temporary Striping (Yellow)	2595	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	155	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	65	EA
Install Temporary Crash Cushion Type VI Class BT TL3 (Median Sta 3224+50)	1	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 2 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R110OMT.DGN
USER: lstaggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R112

NOTE:
FOR DETAILS OF RAMP D ENTRANCE, SEE PHASE 2 SHEET 12 OF 13.

NOTE:
FOR DETAILS OF RAMP A EXIT, SEE PHASE 2 SHEET 9 OF 13.

I-75 STA 3226+00 - STA 3258+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3200	LF
Relocate Temporary Crash Cushion Type VI Class BT TL3 (To Rt Sta 3255+04)	1	EA
6" Temporary Striping (White)	6580	LF
6" Temporary Striping (Yellow)	6400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	165	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

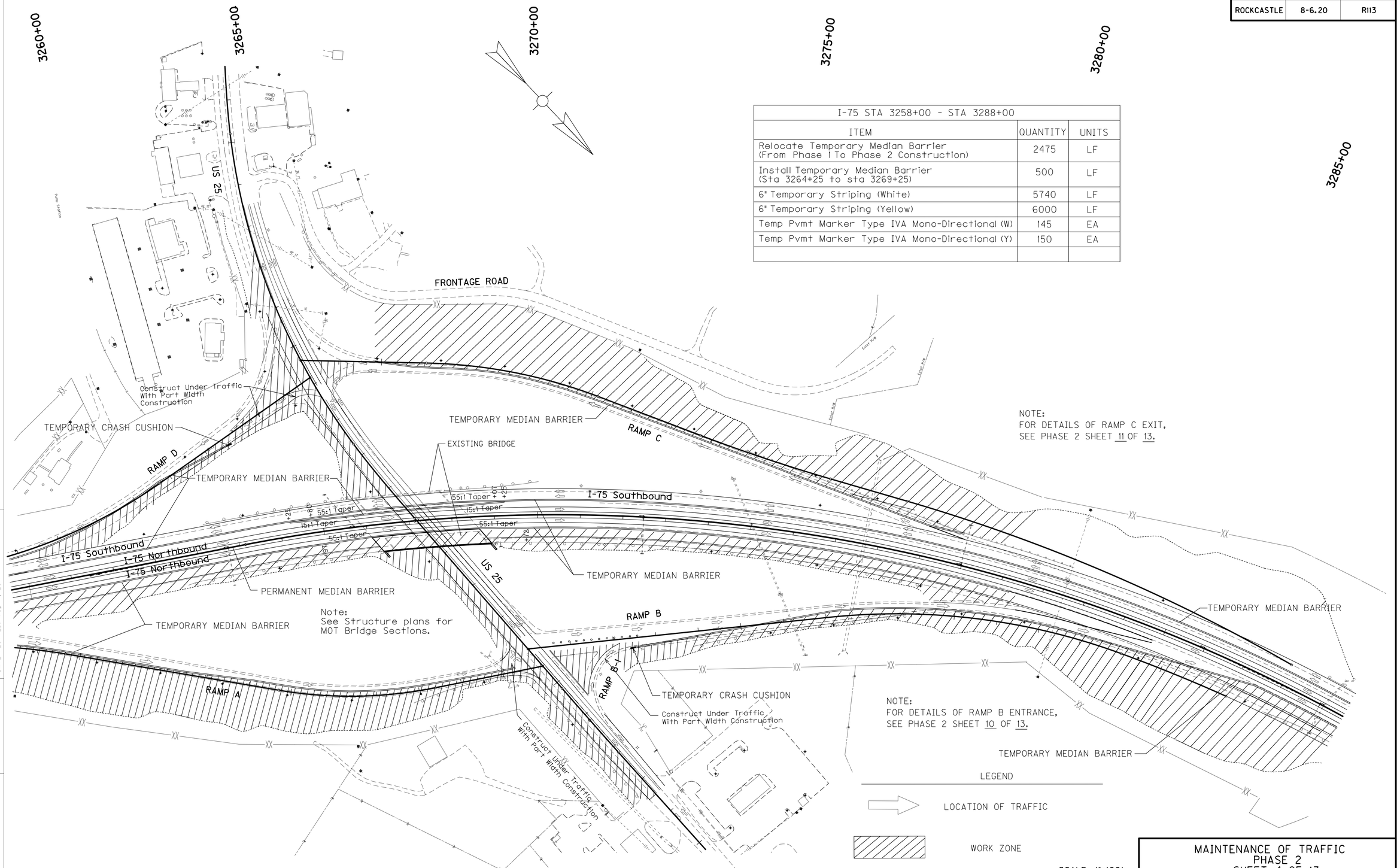
SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 3 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R112OMT.DGN
USER: lstaggs
DATE PLOTTED: June 7, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R113

I-75 STA 3258+00 - STA 3288+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	2475	LF
Install Temporary Median Barrier (Sta 3264+25 to sta 3269+25)	500	LF
6" Temporary Striping (White)	5740	LF
6" Temporary Striping (Yellow)	6000	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	145	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	150	EA

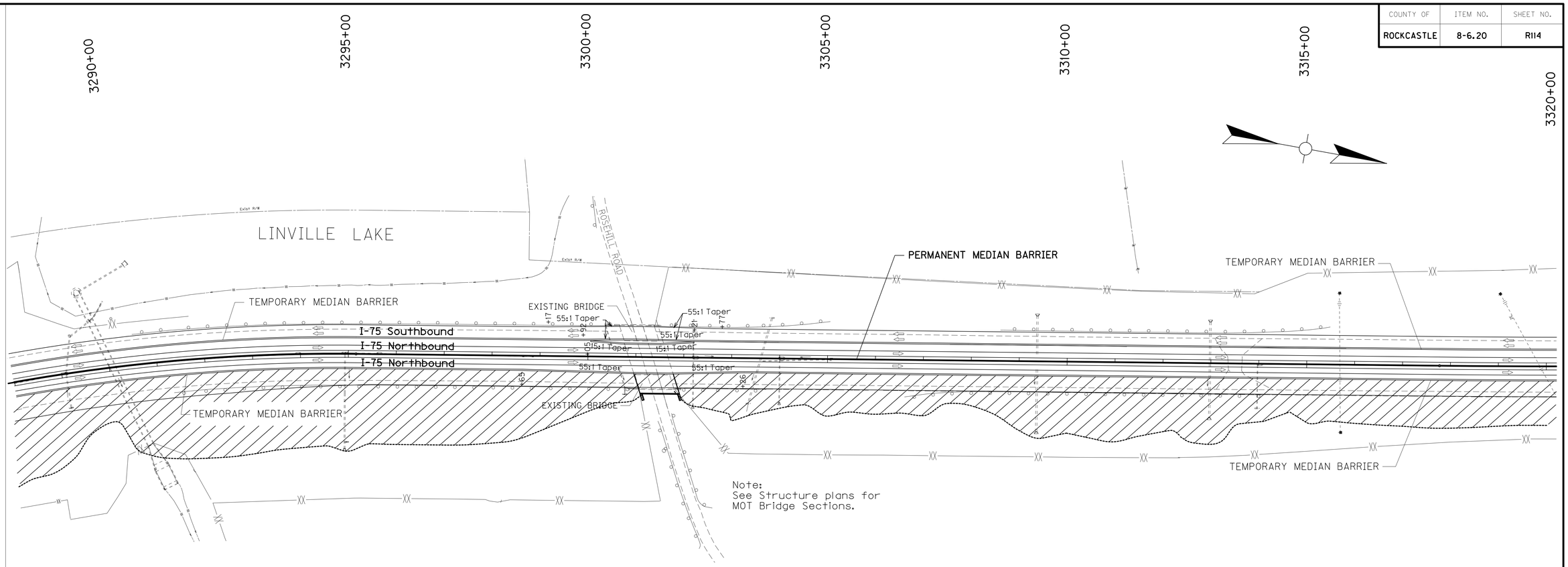


SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 4 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R113OMT.DGN
USER: lstoggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R114



Note:
See Structure plans for
MOT Bridge Sections.

I-75 STA 3288+00 - STA 3320+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3200	LF
Install Temporary Median Barrier (Sta 3300+05 to sta 3302+21)	225	LF
6" Temporary Striping (White)	6400	LF
6" Temporary Striping (Yellow)	6400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	160	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA

LEGEND

LOCATION OF TRAFFIC

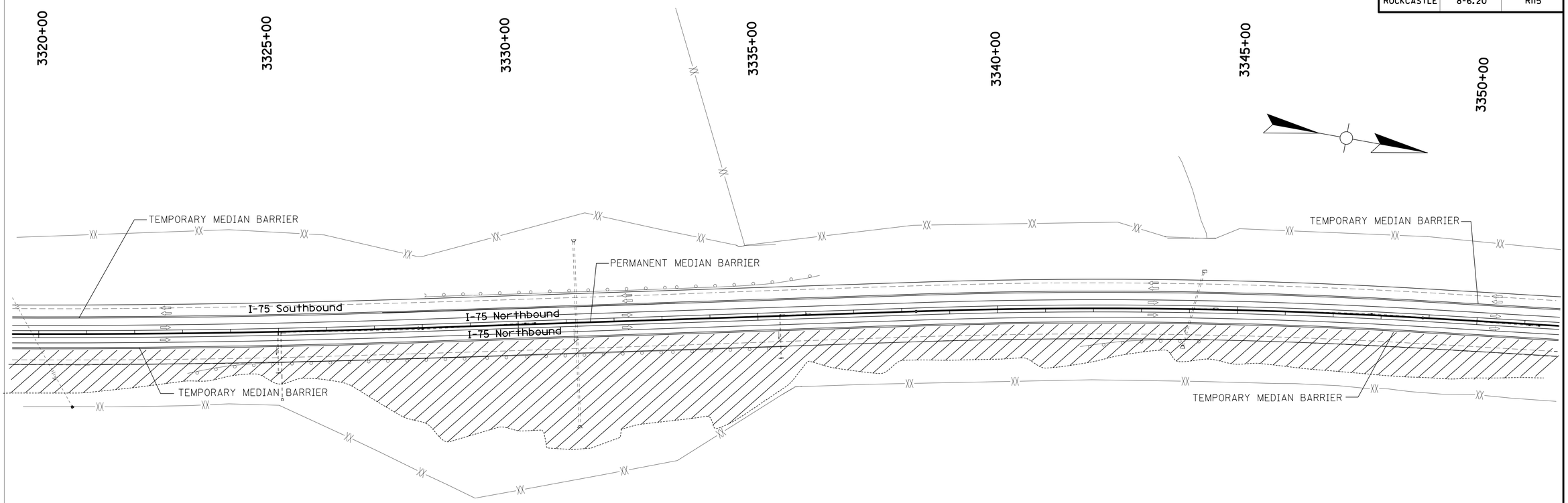
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 5 OF 13

MicroStation v8.11.7.443 E-SHEET NAME: USER: tbaker DATE PLOTTED: May 4, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R1400MT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R115



I-75 STA 3320+00 - STA 3351+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3100	LF
6" Temporary Striping (White)	6200	LF
6" Temporary Striping (Yellow)	6200	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	155	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	155	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 6 OF 13

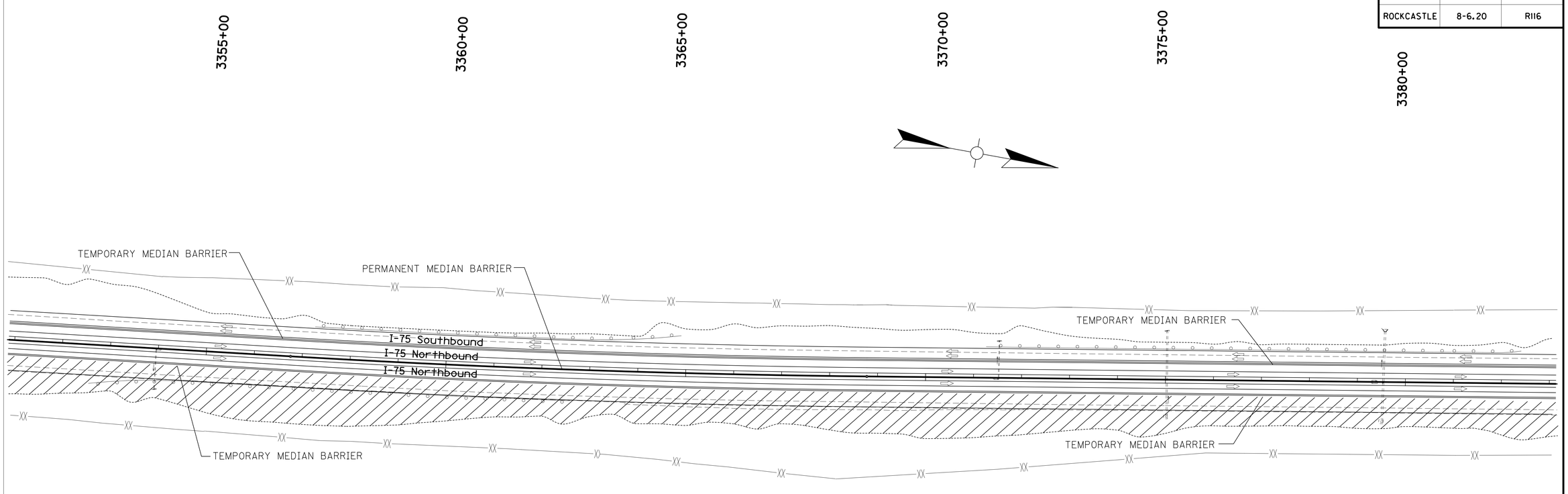
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R115OMT.DGN

USER: tbaker
DATE PLOTTED: May 4, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R116



I-75 STA 3351+00 - STA 3383+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3200	LF
6" Temporary Striping (White)	6400	LF
6" Temporary Striping (Yellow)	6400	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	160	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA

LEGEND

LOCATION OF TRAFFIC

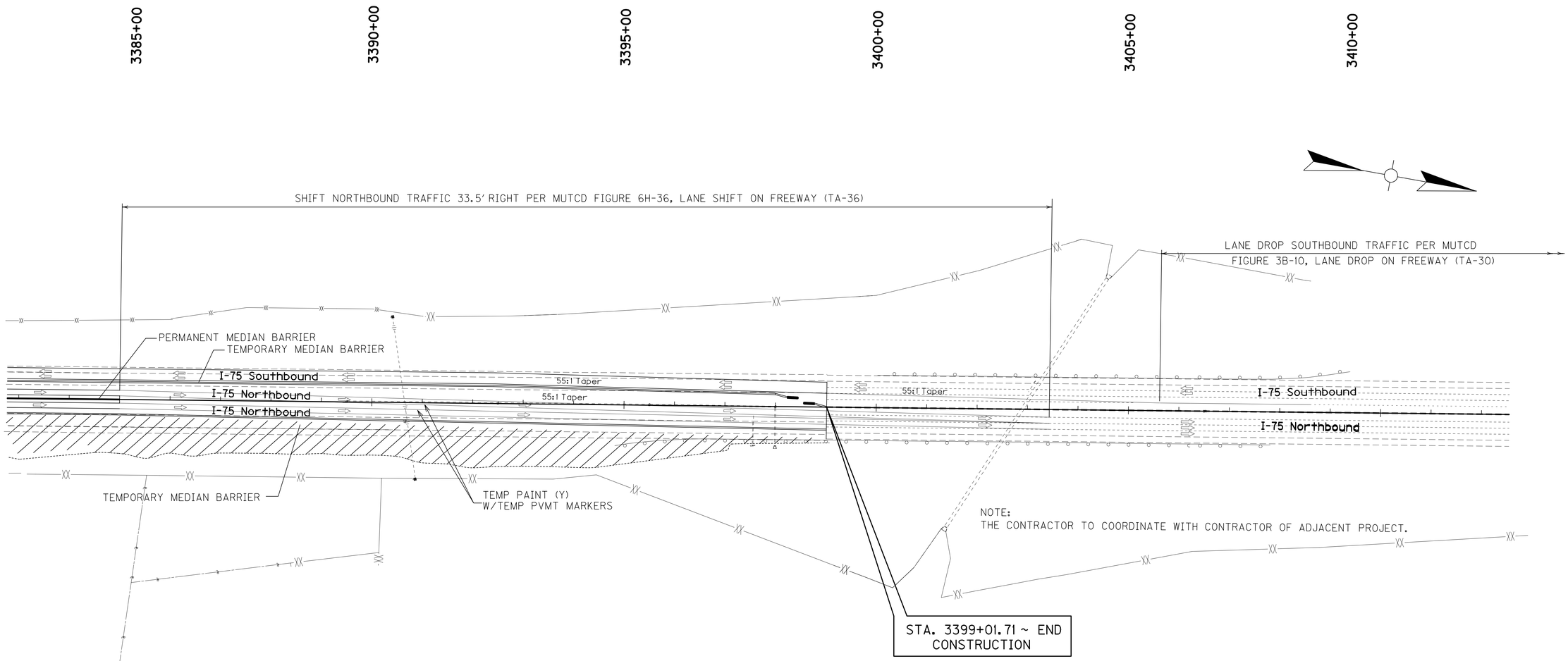
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 7 OF 13

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R116OOMT.DGN
USER: lstoggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R117



I-75 PHASE 2 CONSTRUCTION SEQUENCE

1. LEVEL WEDGE TOP BASE COARSE OF MEDIAN AREA TO MAKE RIDEABLE FOR NORTHBOUND LANE SHIFT.
2. THERE IS TO BE NO WORK DONE ON NORTHBOUND LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO LANE ARRANGEMENT SHOWN MOT TYPICAL SECTION 3 AFTER COMPLETION OF PHASE 1.
3. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE NORTHBOUND DRIVING LANES AS SHOWN FROM STA 3385+00 TO STA 3399+01.71, SOUTHBOUND DRIVING LANES TO REMAIN AS SHOWN ON PHASE 1. RELOCATE AND INSTALL TEMPORARY MEDIAN BARRIER AS SHOWN ON MOT TYPICAL SECTION 3. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
4. SHIFT NORTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
5. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT TYPICAL SECTION 2, SURFACE THROUGH THE TOP BASE COURSE.
6. UPON COMPLETION OF PHASE 2, REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.

I-75 STA 3383+00 - STA 3400+98.4		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	2350	LF
Install Temporary Crash Cushion Type VI Class BT TL3 (To Median Sta 3398+24)	1	EA
Install Temporary Crash Cushion Type VI Class BT TL3 (To Median Sta 3398+77)	1	EA
6" Temporary Striping (White)	5407	LF
6" Temporary Broken Lane Line (White)	138	LF
6" Temporary Striping (Yellow)	5407	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	150	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	135	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

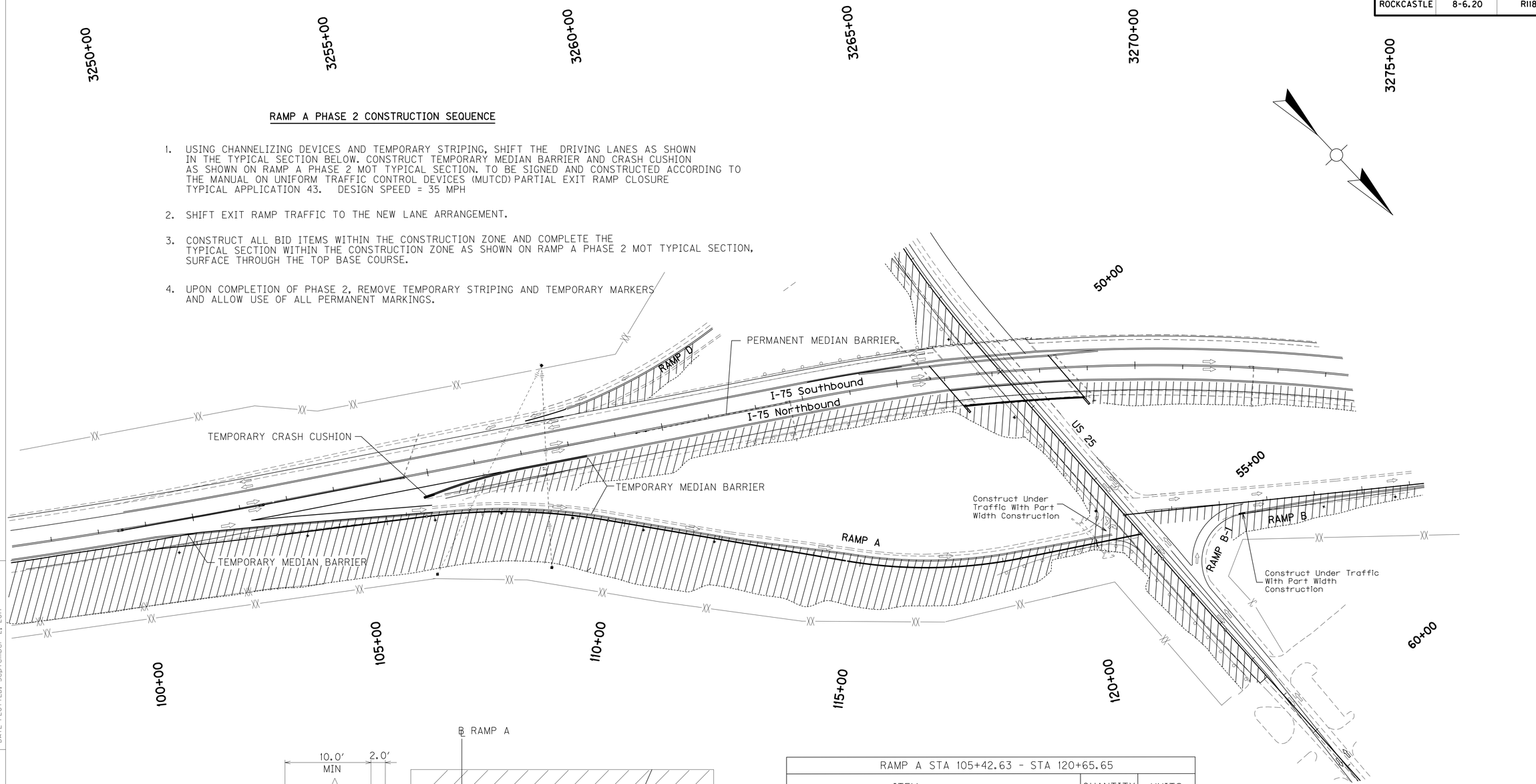
MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 8 OF 13

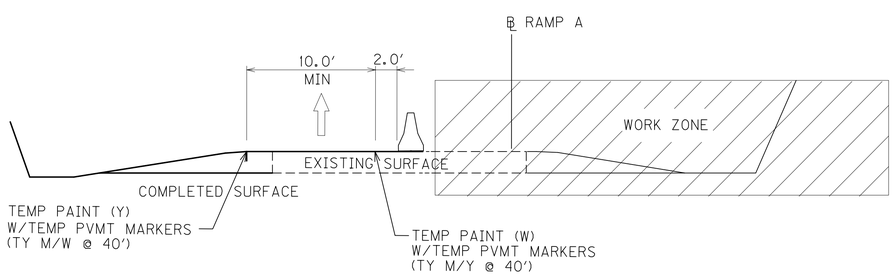
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R117OMT.DGN
USER: lstoggs
DATE PLOTTED: June 7, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R118

RAMP A PHASE 2 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AND CRASH CUSHION AS SHOWN ON RAMP A PHASE 2 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PARTIAL EXIT RAMP CLOSURE TYPICAL APPLICATION 43. DESIGN SPEED = 35 MPH
2. SHIFT EXIT RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
3. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP A PHASE 2 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
4. UPON COMPLETION OF PHASE 2, REMOVE TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.





RAMP A MOT PHASE 2 TYPICAL SECTION

NOT TO SCALE

RAMP A STA 105+42.63 - STA 120+65.65		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 TO Phase 2 Construction)	1425	LF
6" Temporary Striping (White)	1425	LF
6" Temporary Striping (Yellow)	1425	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	36	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	36	EA

LEGEND

LOCATION OF TRAFFIC

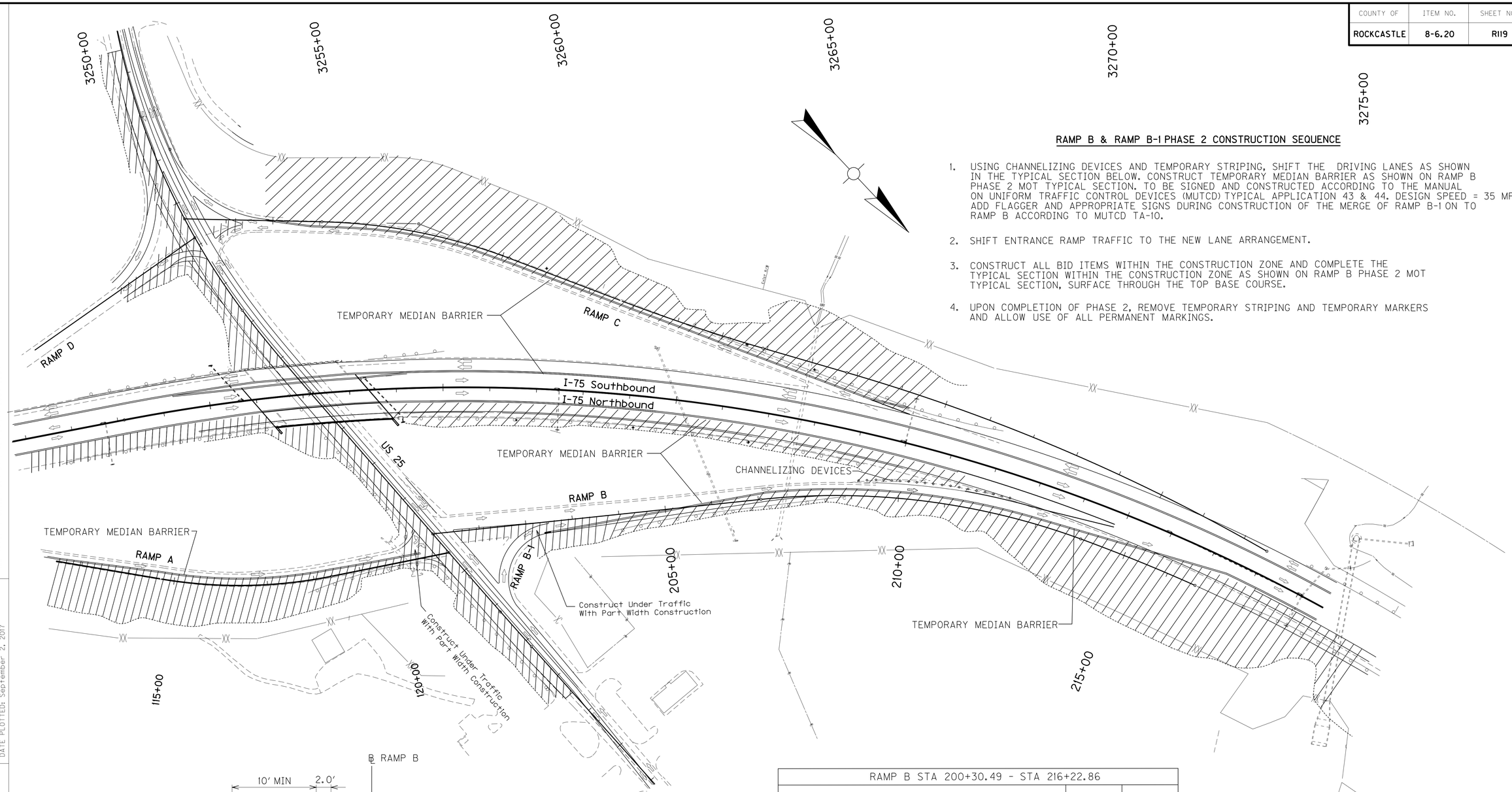
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 2
SHEET 9 OF 13

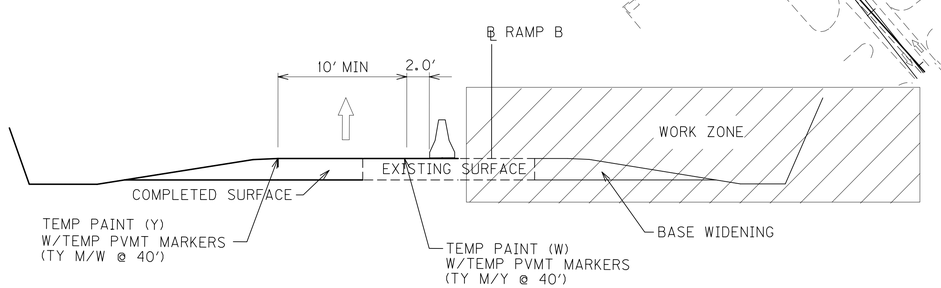
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R118OMT.DGN
USER: lstoggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R119



RAMP B & RAMP B-1 PHASE 2 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AS SHOWN ON RAMP B PHASE 2 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TYPICAL APPLICATION 43 & 44. DESIGN SPEED = 35 MPH ADD FLAGGER AND APPROPRIATE SIGNS DURING CONSTRUCTION OF THE MERGE OF RAMP B-1 ON TO RAMP B ACCORDING TO MUTCD TA-10.
2. SHIFT ENTRANCE RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
3. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP B PHASE 2 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
4. UPON COMPLETION OF PHASE 2, REMOVE TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.



RAMP B MOT PHASE 2 TYPICAL SECTION

NOT TO SCALE

RAMP B STA 200+30.49 - STA 216+22.86		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	1475	LF
Relocate Temporary Crash Cushion Type VI Class BT TL2 (Lt Sta 200+56)	1	EA
6" Temporary Striping (White)	2025	LF
6" Temporary Striping (Yellow)	900	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	51	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	23	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
RAMP B - PHASE 2
SHEET 10 OF 13

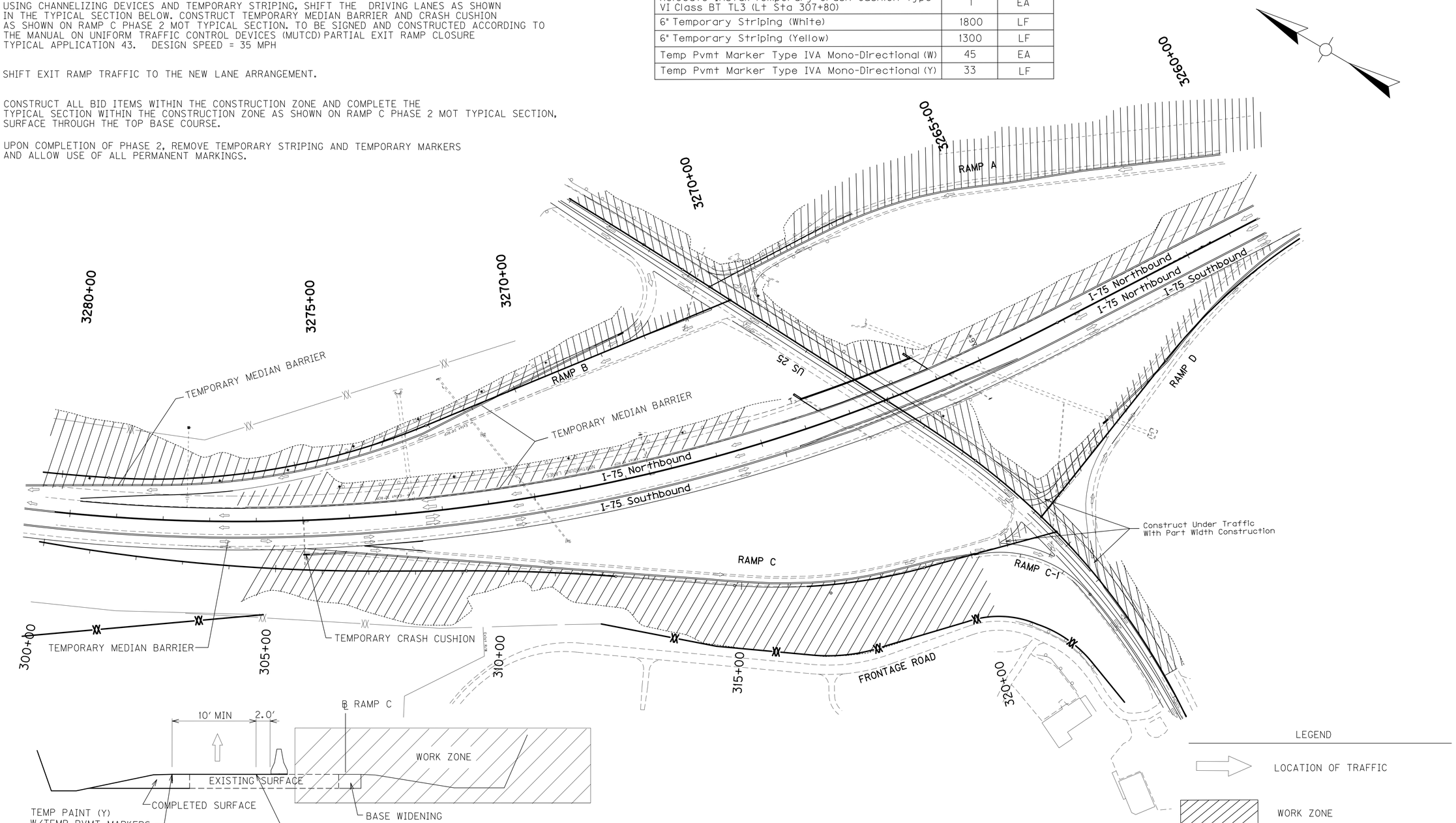
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R119OMT.DGN
USER: lstoggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

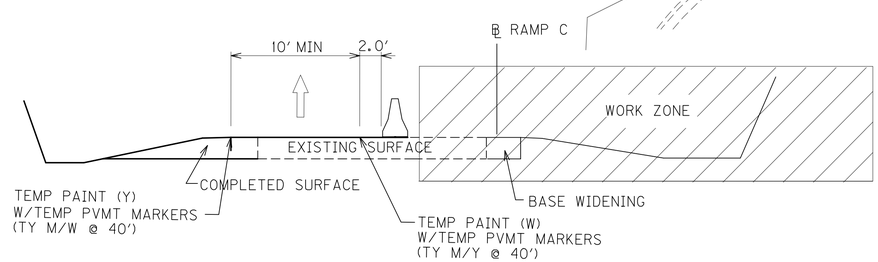
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R120

RAMP C & RAMP C-1 PHASE 2 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER AND CRASH CUSHION AS SHOWN ON RAMP C PHASE 2 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PARTIAL EXIT RAMP CLOSURE TYPICAL APPLICATION 43. DESIGN SPEED = 35 MPH
2. SHIFT EXIT RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
3. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP C PHASE 2 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
4. UPON COMPLETION OF PHASE 2, REMOVE TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.

RAMP C STA 302+95.60 - STA 321+60.32		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	1450	LF
Relocate Install Temporary Crash Cushion Type VI Class BT TL3 (Lt Sta 307+80)	1	EA
6" Temporary Striping (White)	1800	LF
6" Temporary Striping (Yellow)	1300	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	45	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	33	LF





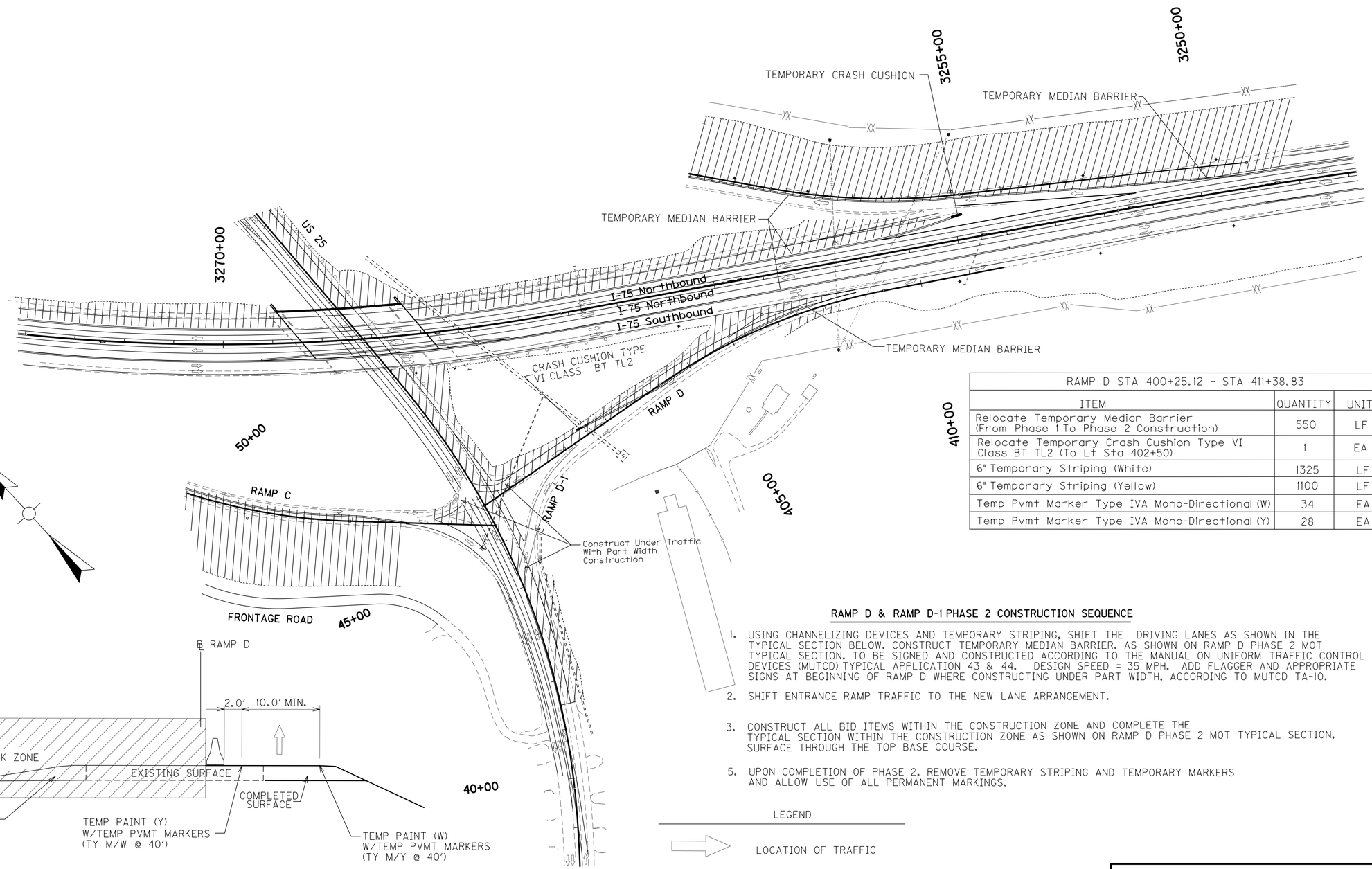
RAMP C MOT PHASE 2 TYPICAL SECTION
NOT TO SCALE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
RAMP C - PHASE 2
SHEET 11 OF 13

MicroStation v8.11.7.443 E-SHEET NAME: USER: lstaggs DATE PLOTTED: September 2, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R120OMT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R121



RAMP D MOT PHASE 2 TYPICAL SECTION

NOT TO SCALE

RAMP D STA 400+25.12 - STA 411+38.83		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	550	LF
Relocate Temporary Crash Cushion Type VI Class BT TL2 (To Lt Sta 402+50)	1	EA
6" Temporary Striping (White)	1325	LF
6" Temporary Striping (Yellow)	1100	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	34	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	28	EA

RAMP D & RAMP D-1 PHASE 2 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW. CONSTRUCT TEMPORARY MEDIAN BARRIER. AS SHOWN ON RAMP D PHASE 2 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TYPICAL APPLICATION 43 & 44. DESIGN SPEED = 35 MPH. ADD FLAGGER AND APPROPRIATE SIGNS AT BEGINNING OF RAMP D WHERE CONSTRUCTING UNDER PART WIDTH, ACCORDING TO MUTCD TA-10.
2. SHIFT ENTRANCE RAMP TRAFFIC TO THE NEW LANE ARRANGEMENT.
3. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON RAMP D PHASE 2 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.
5. UPON COMPLETION OF PHASE 2, REMOVE TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
RAMP D - PHASE 2
SHEET 12 OF 13

MicroStation v8.11.7.443 E-SHEET NAME: USER: 1staggs DATE PLOTTED: September 2, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R121OMT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R122

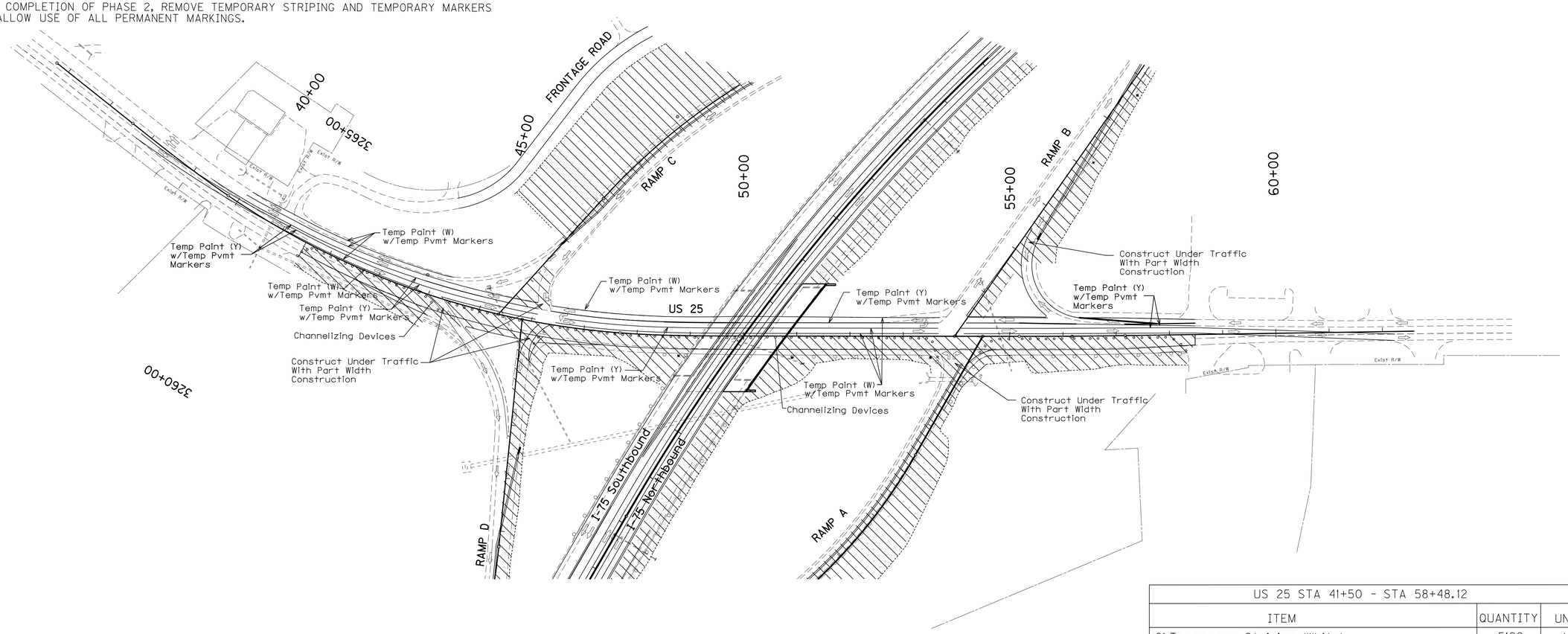
US 25 PHASE 2 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE DRIVING LANES AS SHOWN IN THE TYPICAL SECTION BELOW ON US 25 PHASE 2 MOT TYPICAL SECTION. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT TYPICAL APPLICATION 36. DESIGN SPEED = 35 MPH

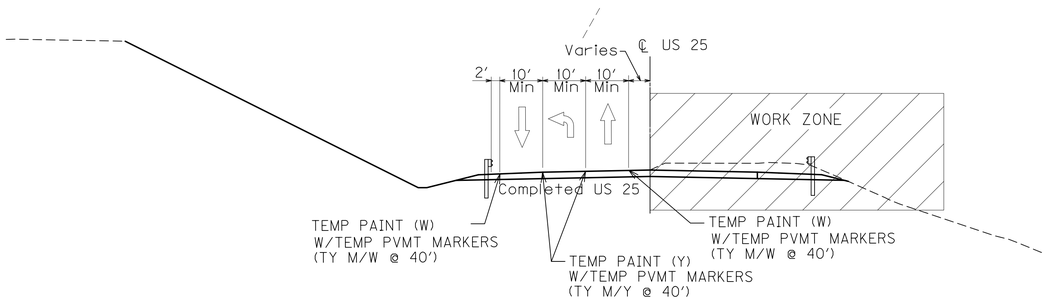
2. SHIFT US 25 TRAFFIC TO THE NEW LANE ARRANGEMENT.

3. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON US 25 PHASE 2 MOT TYPICAL SECTION, SURFACE THROUGH THE TOP BASE COURSE.

4. UPON COMPLETION OF PHASE 2, REMOVE TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.



US 25 STA 41+50 - STA 58+48.12		
ITEM	QUANTITY	UNITS
6" Temporary Striping (White)	5120	LF
6" Temporary Striping (Yellow)	3420	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	128	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	86	EA



US 25 MOT PHASE 2 TYPICAL SECTION

NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

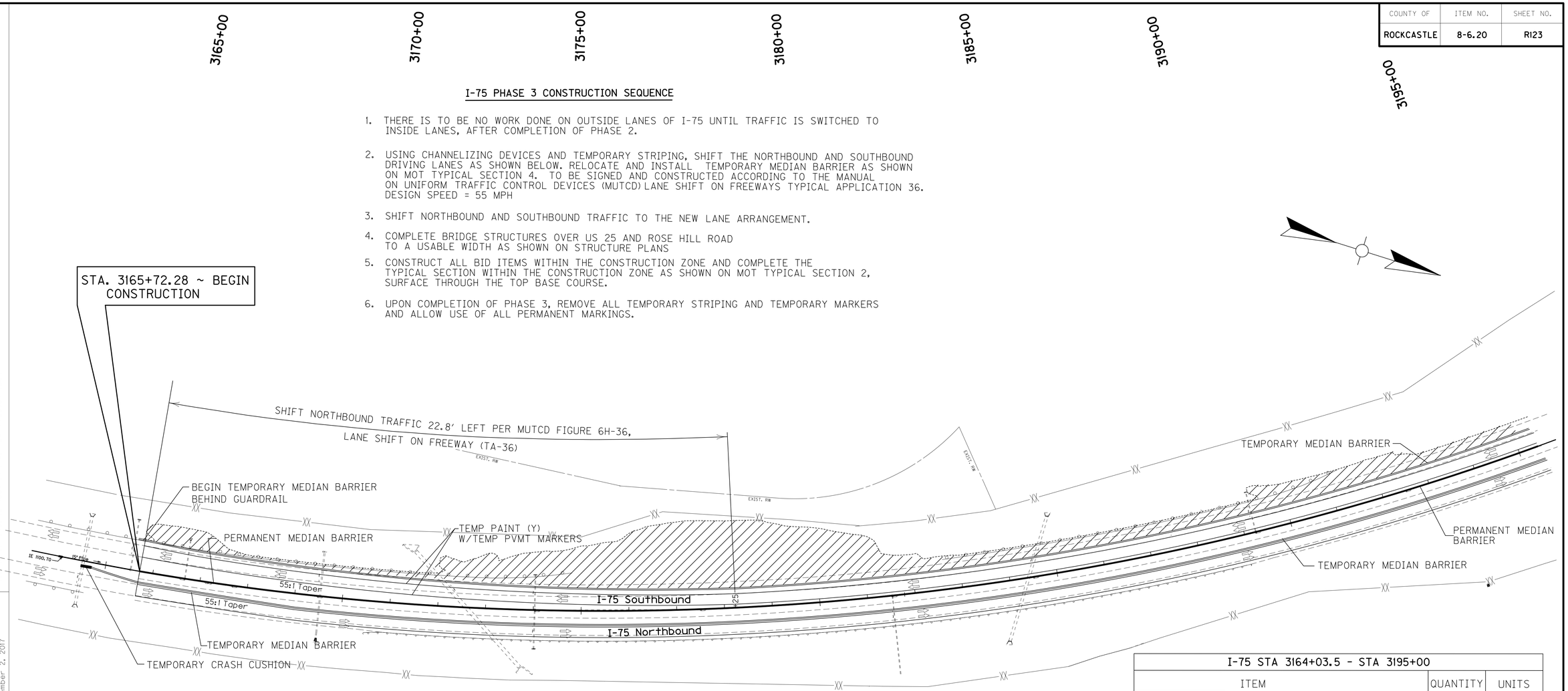
MAINTENANCE OF TRAFFIC
US 25 - PHASE 2
SHEET 13 OF 13

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: lstaggs DATE PLOTTED: September 2, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R122OMT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R123

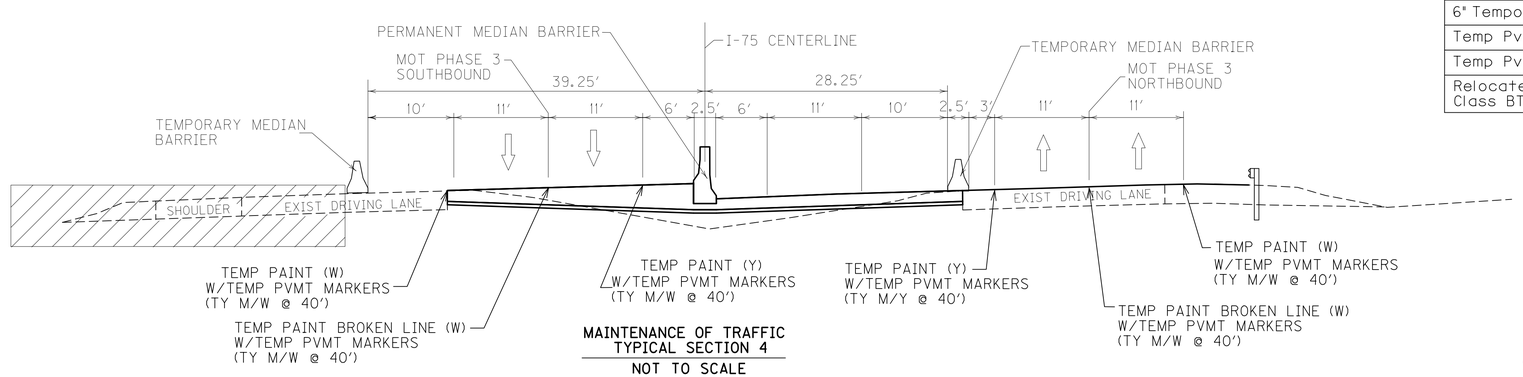
I-75 PHASE 3 CONSTRUCTION SEQUENCE

1. THERE IS TO BE NO WORK DONE ON OUTSIDE LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO INSIDE LANES, AFTER COMPLETION OF PHASE 2.
2. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE NORTHBOUND AND SOUTHBOUND DRIVING LANES AS SHOWN BELOW. RELOCATE AND INSTALL TEMPORARY MEDIAN BARRIER AS SHOWN ON MOT TYPICAL SECTION 4. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
3. SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
4. COMPLETE BRIDGE STRUCTURES OVER US 25 AND ROSE HILL ROAD TO A USABLE WIDTH AS SHOWN ON STRUCTURE PLANS
5. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT TYPICAL SECTION 2, SURFACE THROUGH THE TOP BASE COURSE.
6. UPON COMPLETION OF PHASE 3, REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.



NOTE:
THE CONTRACTOR TO COORDINATE WITH CONTRACTOR OF ADJACENT PROJECT.

I-75 STA 3164+03.5 - STA 3195+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	6000	LF
6" Temporary Striping (White)	6420	LF
6" Temporary Broken Lane Line (White)	1610	LF
6" Temporary Striping (Yellow)	6420	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	321	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	160	EA
Relocate Temporary Crash Cushion Type VI Class BT TL3 (Median Sta 3165+72.3)	1	EA



MAINTENANCE OF TRAFFIC
TYPICAL SECTION 4
NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 1 OF 8

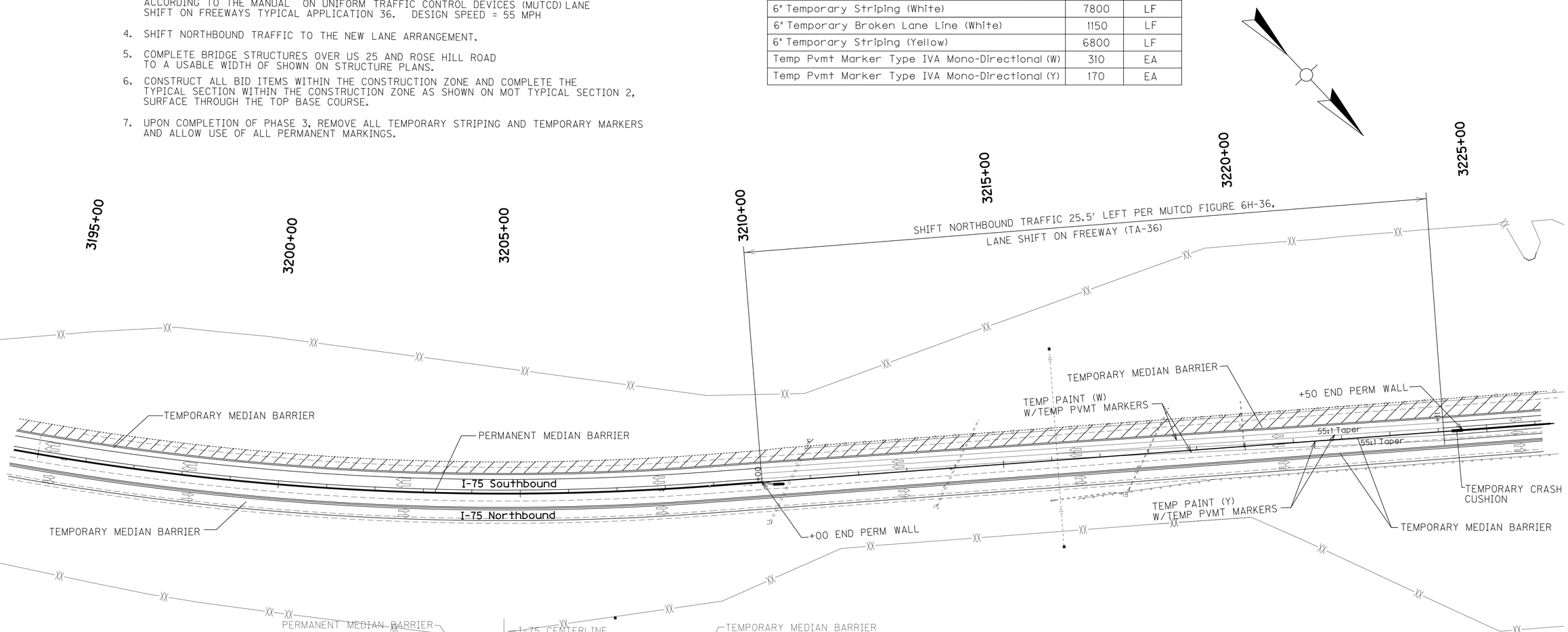
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R2300MT.DGN
USER: lstaggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

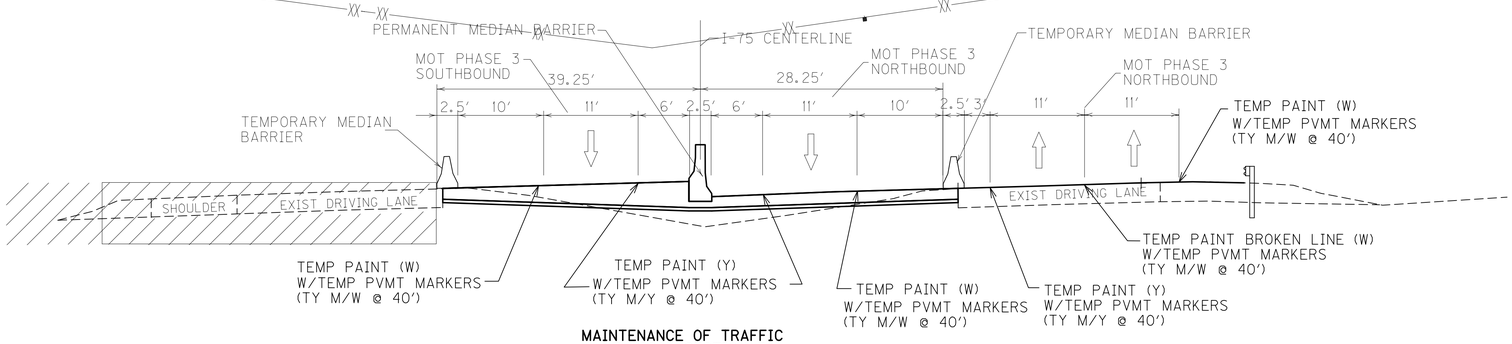
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R124

I-75 PHASE 3 CONSTRUCTION SEQUENCE

1. LEVEL WEDGE TOP BASE COARSE OF MEDIAN AREA TO MAKE RIDEABLE FOR SOUTHBOUND LANE SHIFT.
2. THERE IS TO BE NO WORK DONE ON SOUTHBOUND LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO LANE ARRANGEMENT SHOWN MOT TYPICAL SECTION 5 AFTER COMPLETION OF PHASE 2.
3. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE SOUTHBOUND DRIVING LANES AS SHOWN FROM STA 3210+00 TO STA 3224+14, SOUTHBOUND DRIVING LANES TO REMAIN AS SHOWN ON PHASE 1. RELOCATE AND INSTALL TEMPORARY MEDIAN BARRIER AS SHOWN ON MOT TYPICAL SECTION 3. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
4. SHIFT NORTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
5. COMPLETE BRIDGE STRUCTURES OVER US 25 AND ROSE HILL ROAD TO A USABLE WIDTH OF SHOWN ON STRUCTURE PLANS.
6. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT TYPICAL SECTION 2, SURFACE THROUGH THE TOP BASE COURSE.
7. UPON COMPLETION OF PHASE 3, REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.

I-75 STA 3195+00 - STA 3226+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 2 To Phase 3 Construction)	6200	LF
Relocate Temporary Crash Cushion Type VI Class BT TL3 (Sta 3210+25)	1	EA
Relocate Temporary Crash Cushion Type VI Class BT TL3 (Sta 3224+50)	1	EA
6" Temporary Striping (White)	7800	LF
6" Temporary Broken Lane Line (White)	1150	LF
6" Temporary Striping (Yellow)	6800	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	310	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	170	EA





MAINTENANCE OF TRAFFIC
TYPICAL SECTION 5
NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

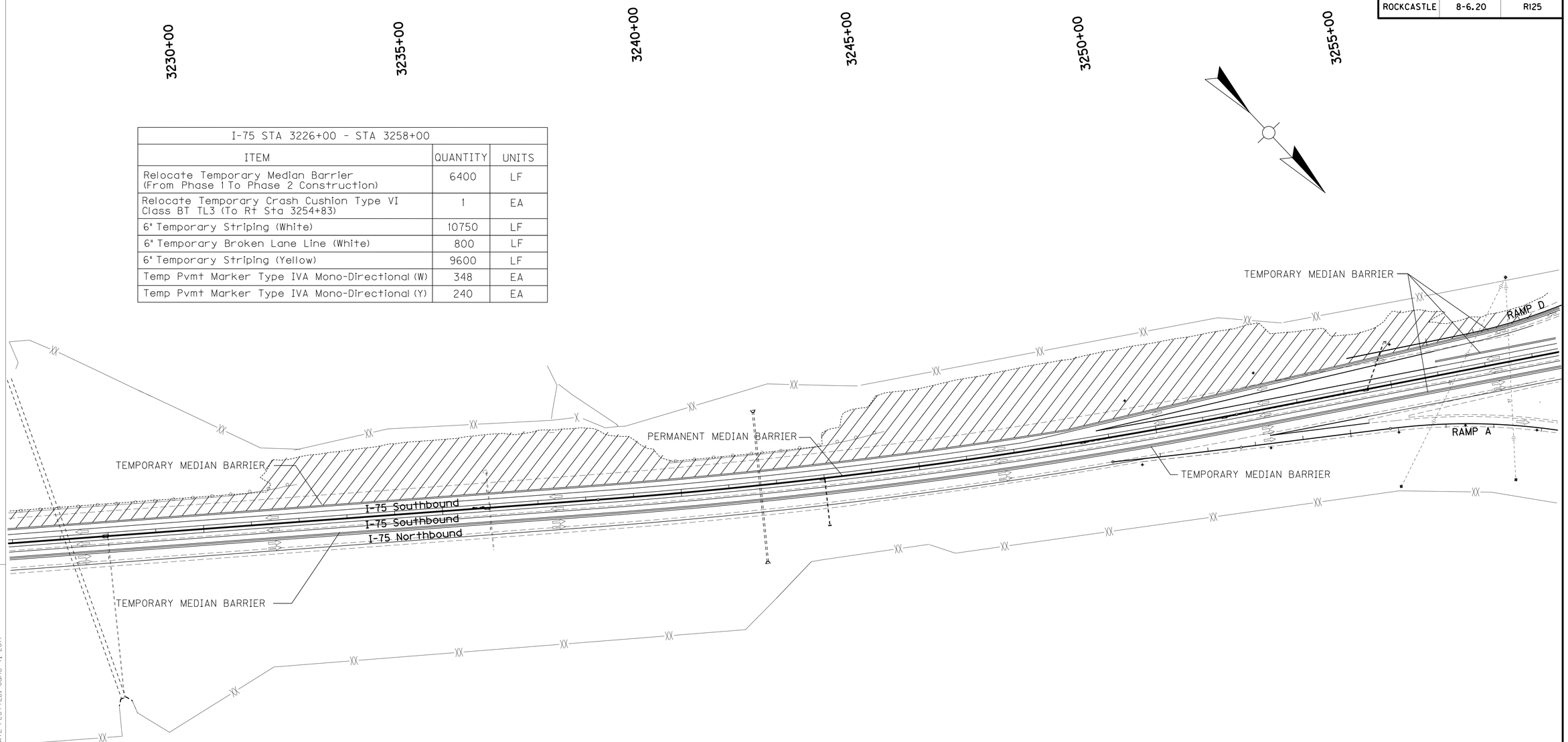
SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 2 OF 8

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R12400MT.DGN
USER: lstaggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R125

I-75 STA 3226+00 - STA 3258+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	6400	LF
Relocate Temporary Crash Cushion Type VI Class BT TL3 (To Rt Sta 3254+83)	1	EA
6" Temporary Striping (White)	10750	LF
6" Temporary Broken Lane Line (White)	800	LF
6" Temporary Striping (Yellow)	9600	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	348	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	240	EA



LEGEND

LOCATION OF TRAFFIC

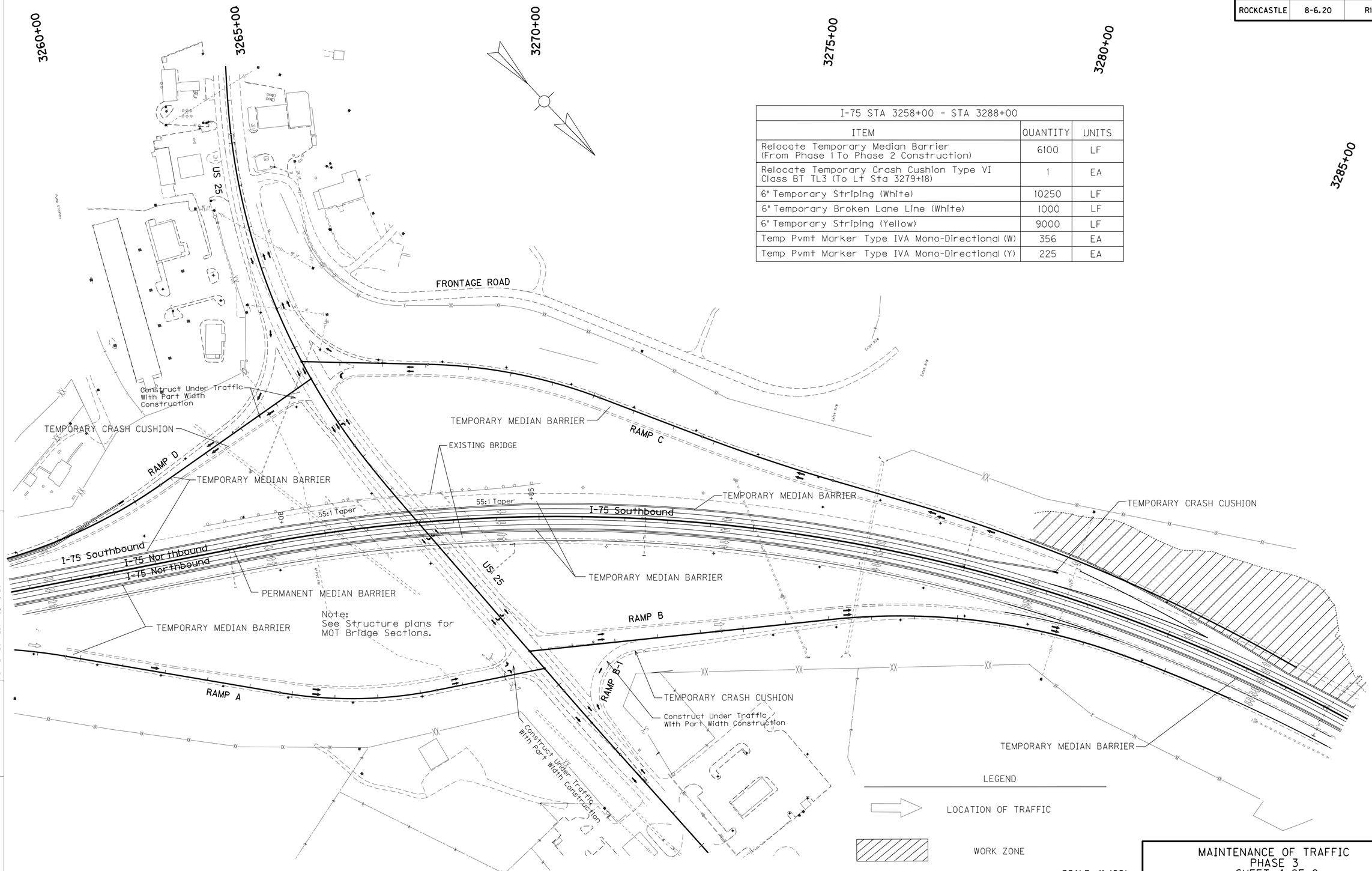
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 3 OF 8

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R125OOMT.DGN
USER: lstaggs
DATE PLOTTED: June 7, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R126



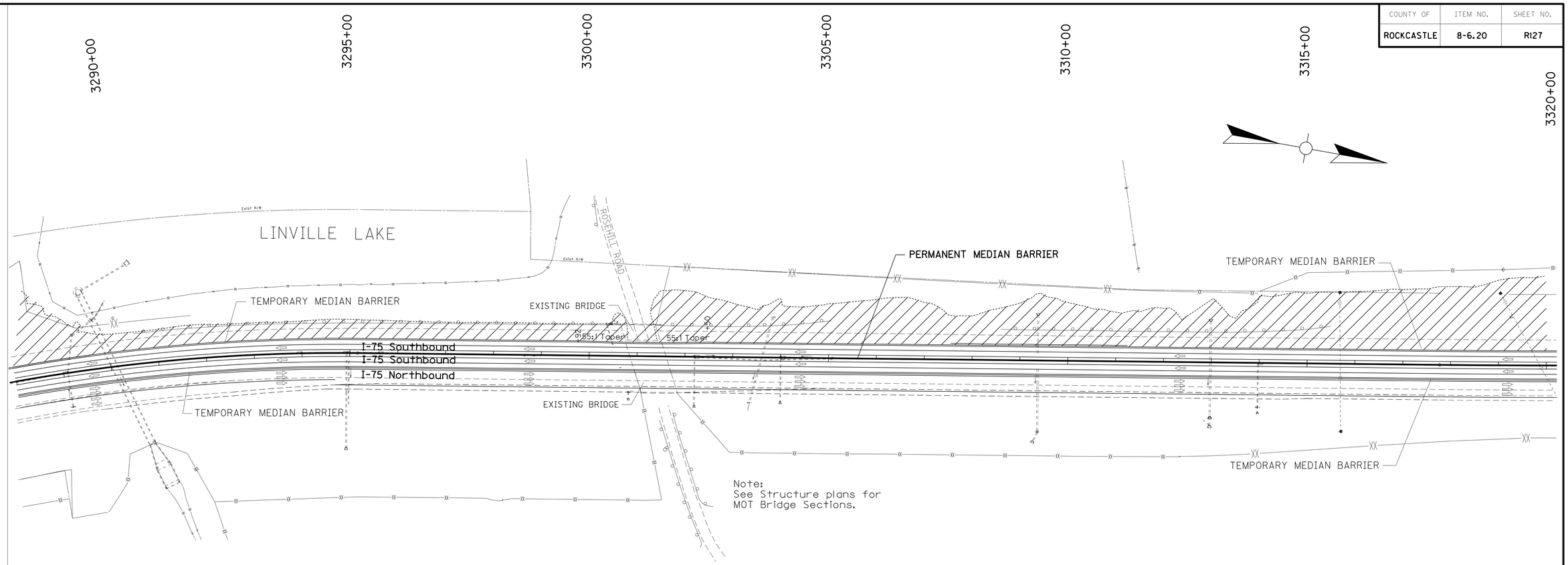
I-75 STA 3258+00 - STA 3288+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	6100	LF
Relocate Temporary Crash Cushion Type VI Class BT TL3 (To Lt Sta 3279+18)	1	EA
6" Temporary Striping (White)	10250	LF
6" Temporary Broken Lane Line (White)	1000	LF
6" Temporary Striping (Yellow)	9000	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	356	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	225	EA

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 4 OF 8

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R2600MT.DGN
USER: lstoggs
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R127



Note:
See Structure plans for
MOT Bridge Sections.

I-75 STA 3288+00 - STA 3320+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	6400	LF
6" Temporary Striping (White)	9600	LF
6" Temporary Broken Lane Line (White)	1600	LF
6" Temporary Striping (Yellow)	9600	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	400	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	240	EA

LEGEND

LOCATION OF TRAFFIC

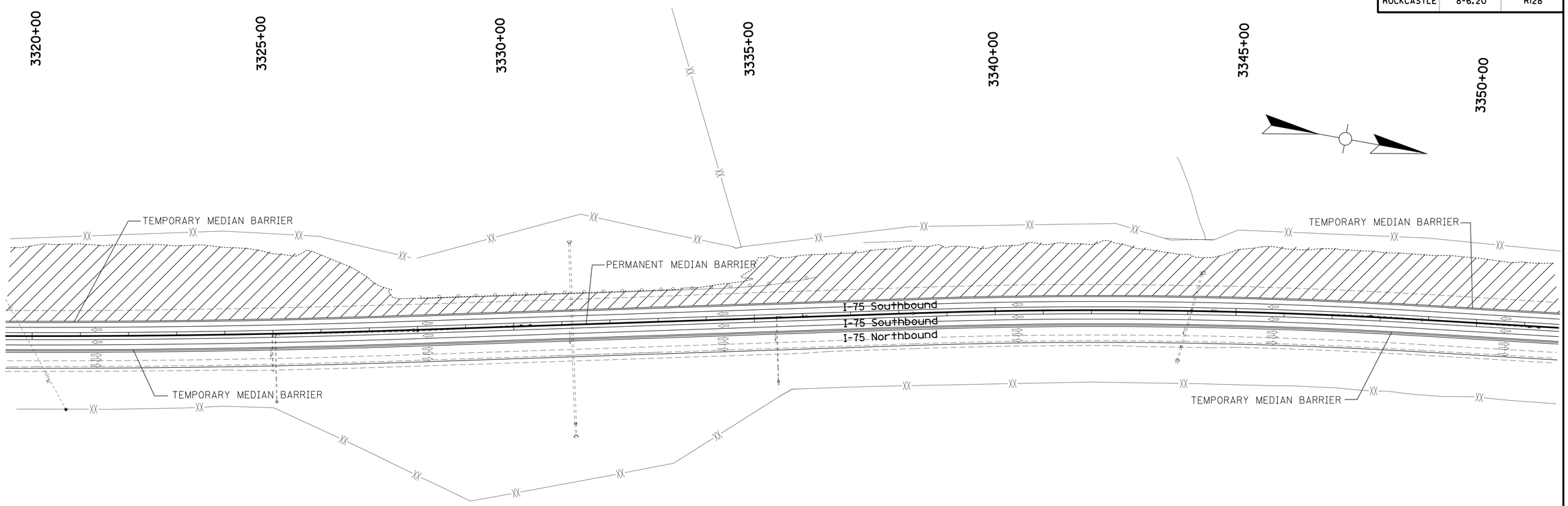
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 5 OF 8

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R127OOMT.DGN
USER: tbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R128



I-75 STA 3320+00 - STA 3351+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	6200	LF
6" Temporary Striping (White)	9300	LF
6" Temporary Broken Lane Line (White)	1550	LF
6" Temporary Striping (Yellow)	6200	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	388	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	233	EA

LEGEND

LOCATION OF TRAFFIC

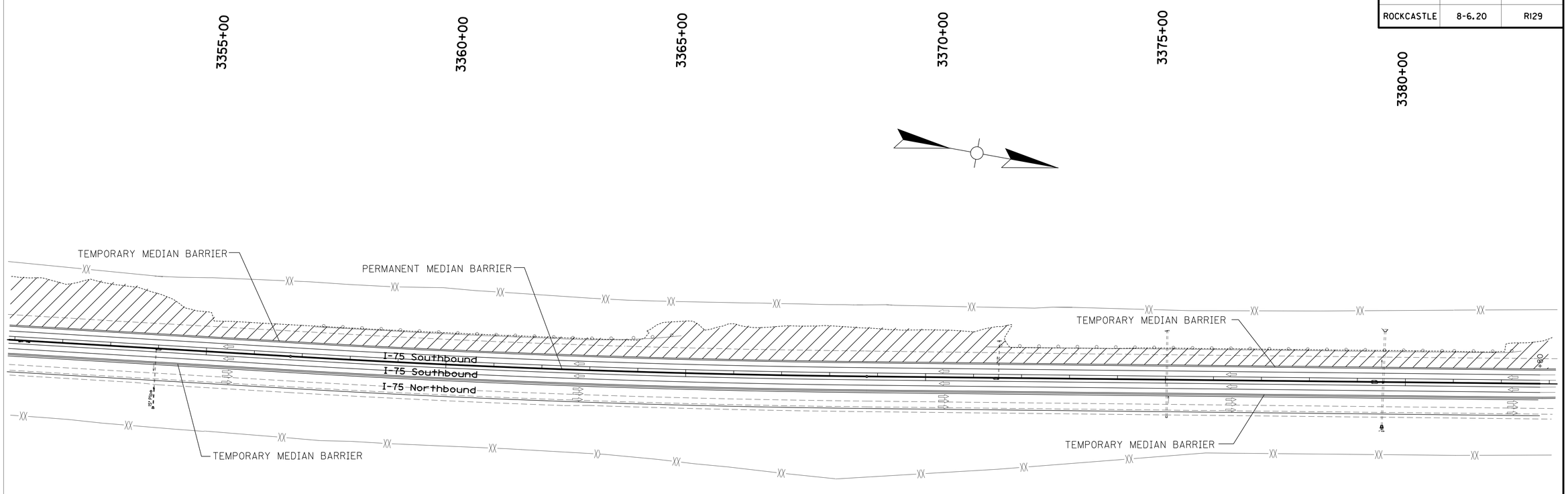
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 6 OF 8

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R2800MT.DGN
USER: tbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R129



I-75 STA 3351+00 - STA 3383+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	6400	LF
6" Temporary Striping (White)	9600	LF
6" Temporary Broken Lane Line (White)	1600	LF
6" Temporary Striping (Yellow)	9600	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	400	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	240	EA

LEGEND

LOCATION OF TRAFFIC

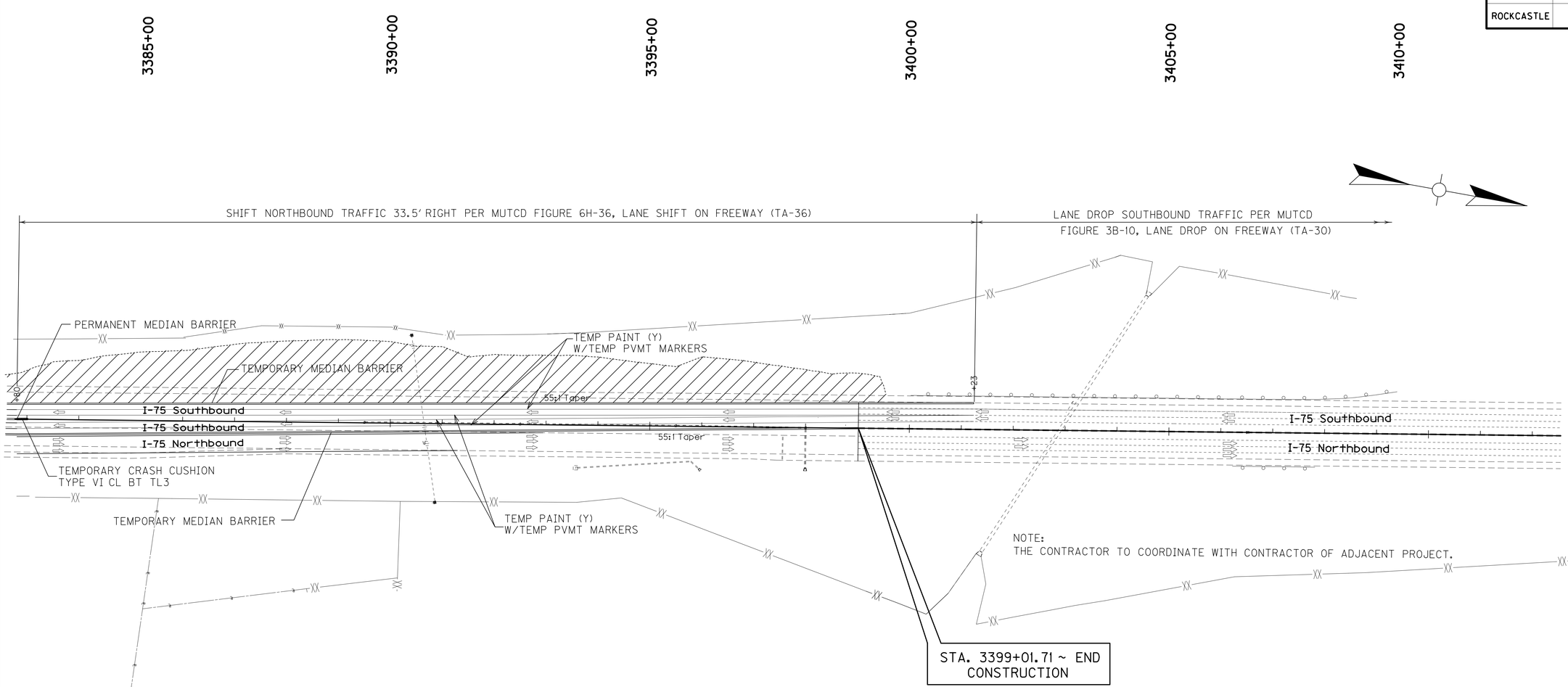
WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 7 OF 8

FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R2900MT.DGN
USER: tbaker
DATE PLOTTED: May 4, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R130



I-75 PHASE 2 CONSTRUCTION SEQUENCE

1. LEVEL WEDGE TOP BASE COARSE OF MEDIAN AREA TO MAKE RIDEABLE FOR SOUTHBOUND LANE SHIFT.
2. THERE IS TO BE NO WORK DONE ON SOUTHBOUND LANES OF I-75 UNTIL TRAFFIC IS SWITCHED TO LANE ARRANGEMENT SHOWN MOT TYPICAL SECTION 5 AFTER COMPLETION OF PHASE 2.
3. USING CHANNELIZING DEVICES AND TEMPORARY STRIPING, SHIFT THE NORTHBOUND & SOUTHBOUND DRIVING LANES AS SHOWN FROM STA 3385+00 TO STA 3399+01.71, RELOCATE AND INSTALL TEMPORARY MEDIAN BARRIER AS SHOWN ON MOT PLAN. TO BE SIGNED AND CONSTRUCTED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LANE SHIFT ON FREEWAYS TYPICAL APPLICATION 36. DESIGN SPEED = 55 MPH
4. SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC TO THE NEW LANE ARRANGEMENT.
5. CONSTRUCT ALL BID ITEMS WITHIN THE CONSTRUCTION ZONE AND COMPLETE THE TYPICAL SECTION WITHIN THE CONSTRUCTION ZONE AS SHOWN ON MOT PLAN, SURFACE THROUGH THE TOP BASE COURSE.
6. UPON COMPLETION OF PHASE 3, REMOVE ALL TEMPORARY STRIPING AND TEMPORARY MARKERS AND ALLOW USE OF ALL PERMANENT MARKINGS.

I-75 STA 3383+00 - STA 3400+98.4		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 1 To Phase 2 Construction)	3425	LF
Relocate Temporary Crash Cushion Type VI Class BT TL3 (To Median Sta 3399+01.7)	1	EA
6" Temporary Striping (White)	5550	LF
6" Temporary Broken Lane Line (White)	800	LF
6" Temporary Striping (Yellow)	5250	LF
Temp Pvmt Marker Type IVA Mono-Directional (W)	220	EA
Temp Pvmt Marker Type IVA Mono-Directional (Y)	132	EA

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 3
SHEET 8 OF 8

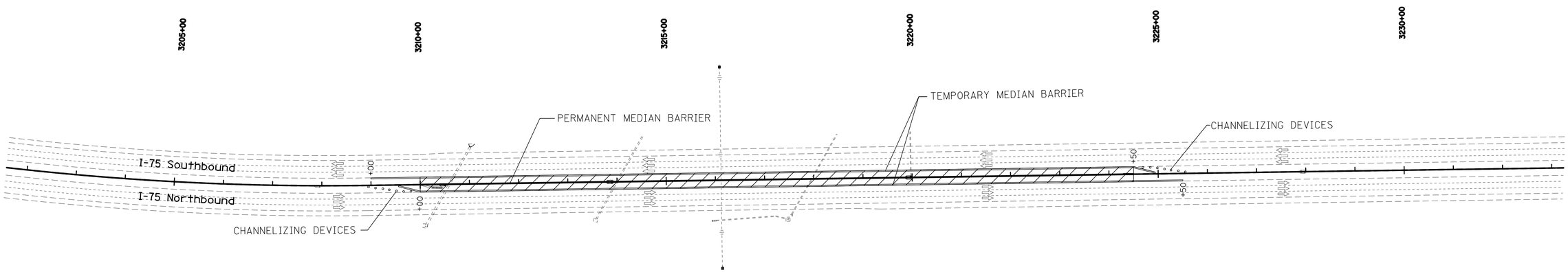
MicroStation v8.11.7.443 E-SHEET NAME: USER: lstaggs DATE PLOTTED: June 7, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R3000MT.DGN

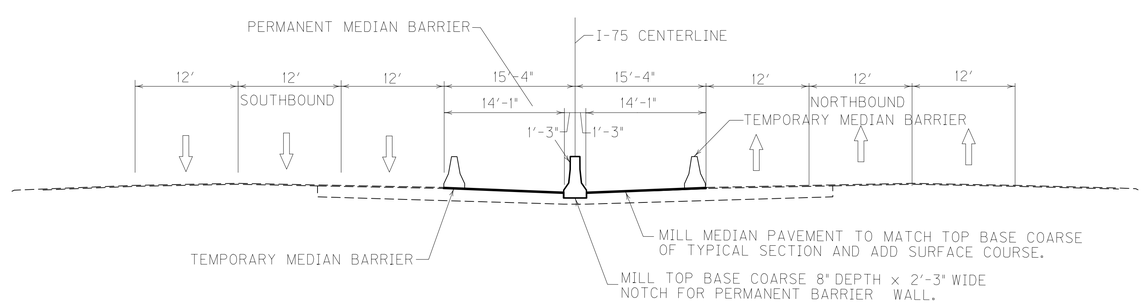
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R131

I-75 STA 3209+00 - STA 3225+50		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 3 Construction)	3200	LF
Remove Temporary Crash Cushion	2	EA

I-75 PHASE 4 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES INSTALL TEMPORARY MEDIAN BARRIER. AS SHOWN ON STANDARD DRAWING FOR SHOULDER CLOSURE. DESIGN SPEED = 55 MPH
2. MILL CONSTRUCTED MEDIAN PAVEMENT TO MATCH TOP BASE COARSE OF TYPICAL SECTION. MILL 8" DEPTH x 2'-3" WIDE NOTCH FOR PERMANENT BARRIER WALL.
3. CONSTRUCT REMAINING PERMANENT BARRIER WALL AND TOP PHASE OF BARRIER WALL BOX INLETS.
4. ADD SURFACE COARSE TO MEDIAN AREA. ADD PERMANENT STRIPING.
5. REMOVE CHANNELIZING DEVICES AND TEMPORARY BARRIER WALL.





MAINTENANCE OF TRAFFIC TYPICAL SECTION 4

NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 4
SHEET 1 OF 2

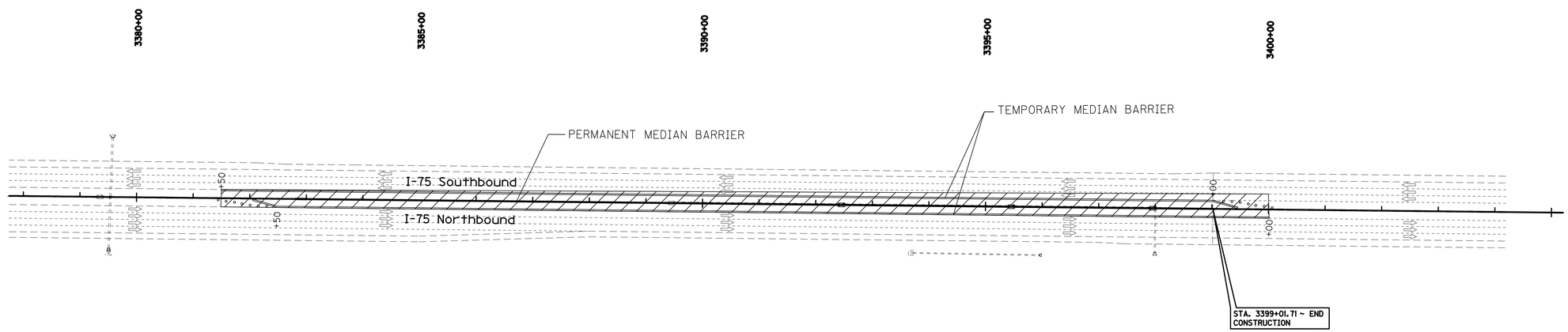
FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R131OMT.DGN
USER: lstoggs
DATE PLOTTED: September 2, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R132

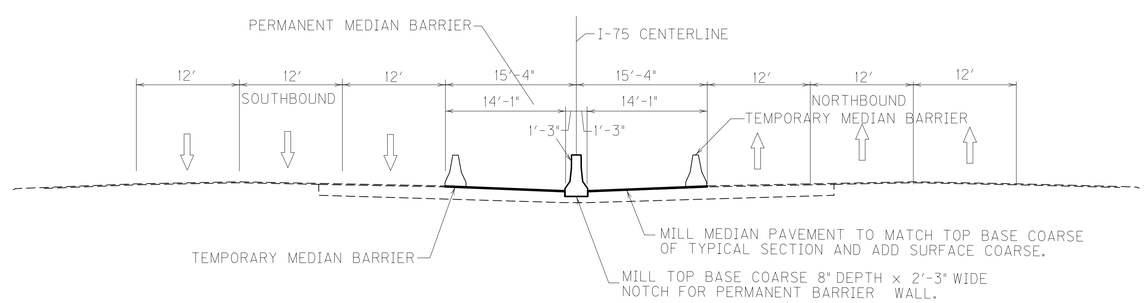
I-75 STA 3381+50 - STA 3400+00		
ITEM	QUANTITY	UNITS
Relocate Temporary Median Barrier (From Phase 3 Construction)	3600	LF
Remove Temporary Crash Cushion	1	EA

I-75 PHASE 4 CONSTRUCTION SEQUENCE

1. USING CHANNELIZING DEVICES INSTALL TEMPORARY MEDIAN BARRIER. AS SHOWN ON STANDARD DRAWING FOR SHOULDER CLOSURE. DESIGN SPEED = 55 MPH
2. MILL CONSTRUCTED MEDIAN PAVEMENT TO MATCH TOP BASE COARSE OF TYPICAL SECTION. MILL 8" DEPTH x 2'-3" WIDE NOTCH FOR PERMANENT BARRIER WALL.
3. CONSTRUCT REMAINING PERMANENT BARRIER WALL AND TOP PHASE OF BARRIER WALL BOX INLETS.
4. ADD SURFACE COARSE TO MEDIAN AREA. ADD PERMANENT STRIPING.
5. REMOVE CHANNELIZING DEVICES AND TEMPORARY BARRIER WALL.
6. UPON COMPLETION OF PROJECT, ALL TEMPORARY BARRIER WALLS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



NOTE:
THE CONTRACTOR TO COORDINATE WITH CONTRACTOR OF ADJACENT PROJECT.



MAINTENANCE OF TRAFFIC TYPICAL SECTION 6

NOT TO SCALE

LEGEND

LOCATION OF TRAFFIC

WORK ZONE

SCALE: 1"=100'

MAINTENANCE OF TRAFFIC
PHASE 4
SHEET 2 OF 2

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: lstaggs DATE PLOTTED: September 2, 2017 | FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R13200MT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R133

EROSION CONTROL NOTES

ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UP GRADIENT AREAS NOT DISTURBED (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEVICE USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

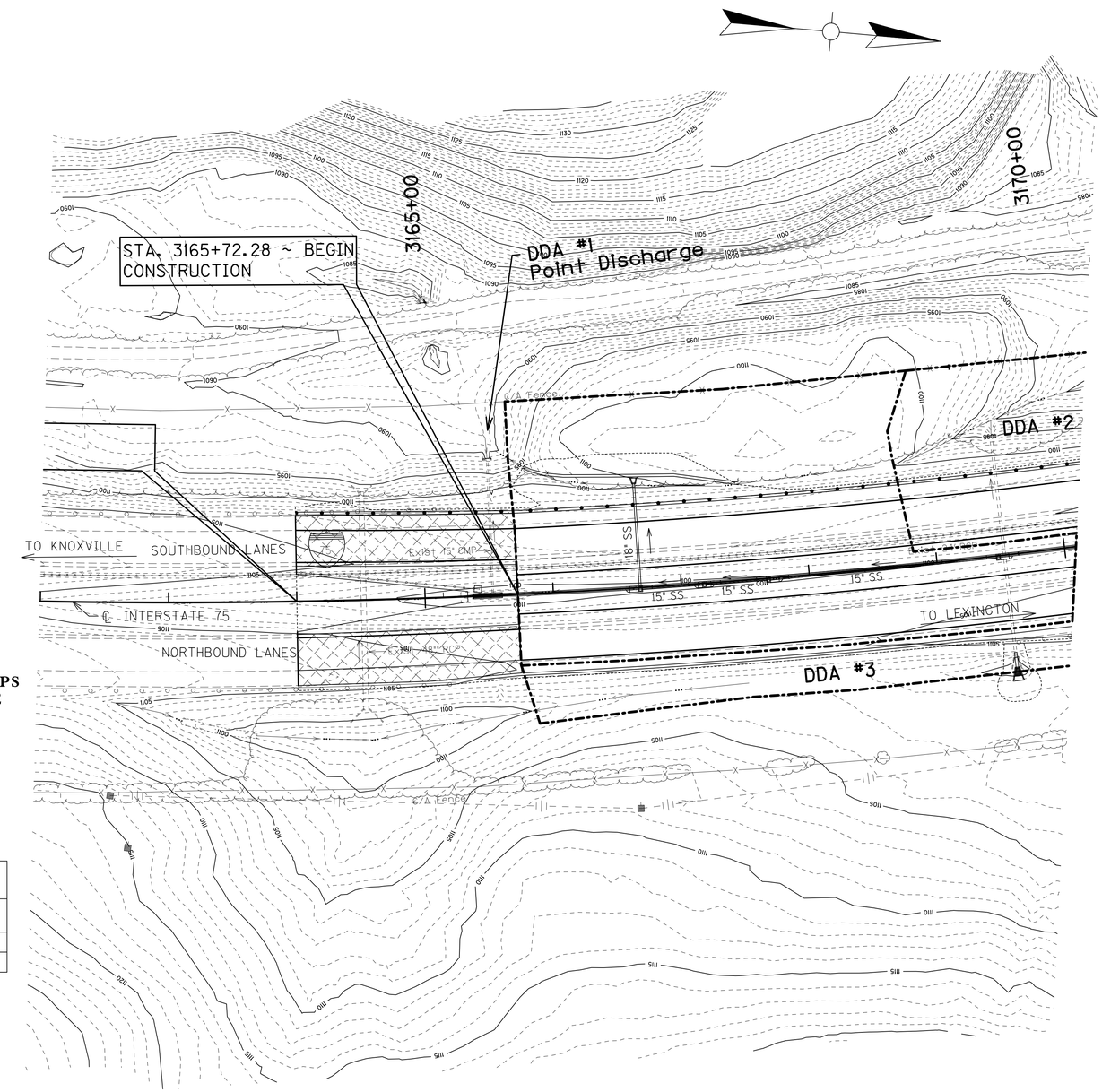
IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP, TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP, TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOW EXIST A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE AFOREMENTIONED SILT BASIN OR TRAPS.

THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND RESIDENT ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 2004 LETTING.

EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER THEY BECOME ONE-HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE RESIDENT ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE RESIDENT ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.



EROSION CONTROL LEGEND

SILT TRAP TYPE A ALTERNATE 1	A
SILT TRAP TYPE A ALTERNATE 2	A
SILT TRAP TYPE B	
SILT TRAP TYPE C	
SILT FENCE	SF
TEMPORARY SILT DITCH	
DISTURBED DRAINAGE AREA	
OVERLAND SHEET FLOW	
PROPOSED R/W	
PROPOSED EASEMENT	

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #1	2.3	8280

SCALE: 1"= 50'

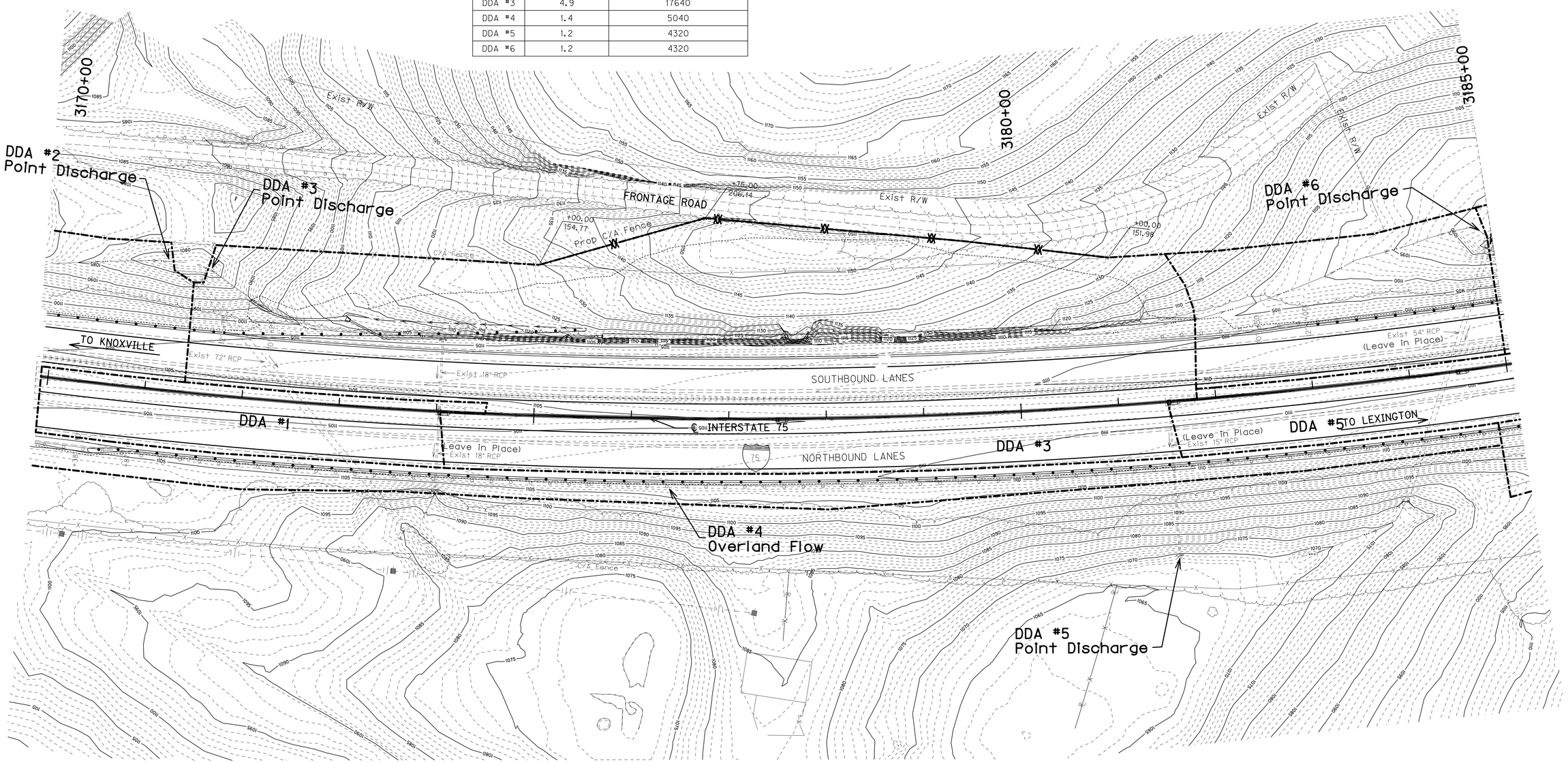
EROSION CONTROL PLAN
I-75
STA 3165+72.28 TO STA 3170+00

MicroStation v8.11.7.443 | E-SHEET NAME: R133OEC | USER: tvonbehren DATE PLOTTED: September 13, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R133OEC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R134

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #2	0.81	2916
DDA #3	4.9	17640
DDA #4	1.4	5040
DDA #5	1.2	4320
DDA #6	1.2	4320



SCALE: 1"= 50'

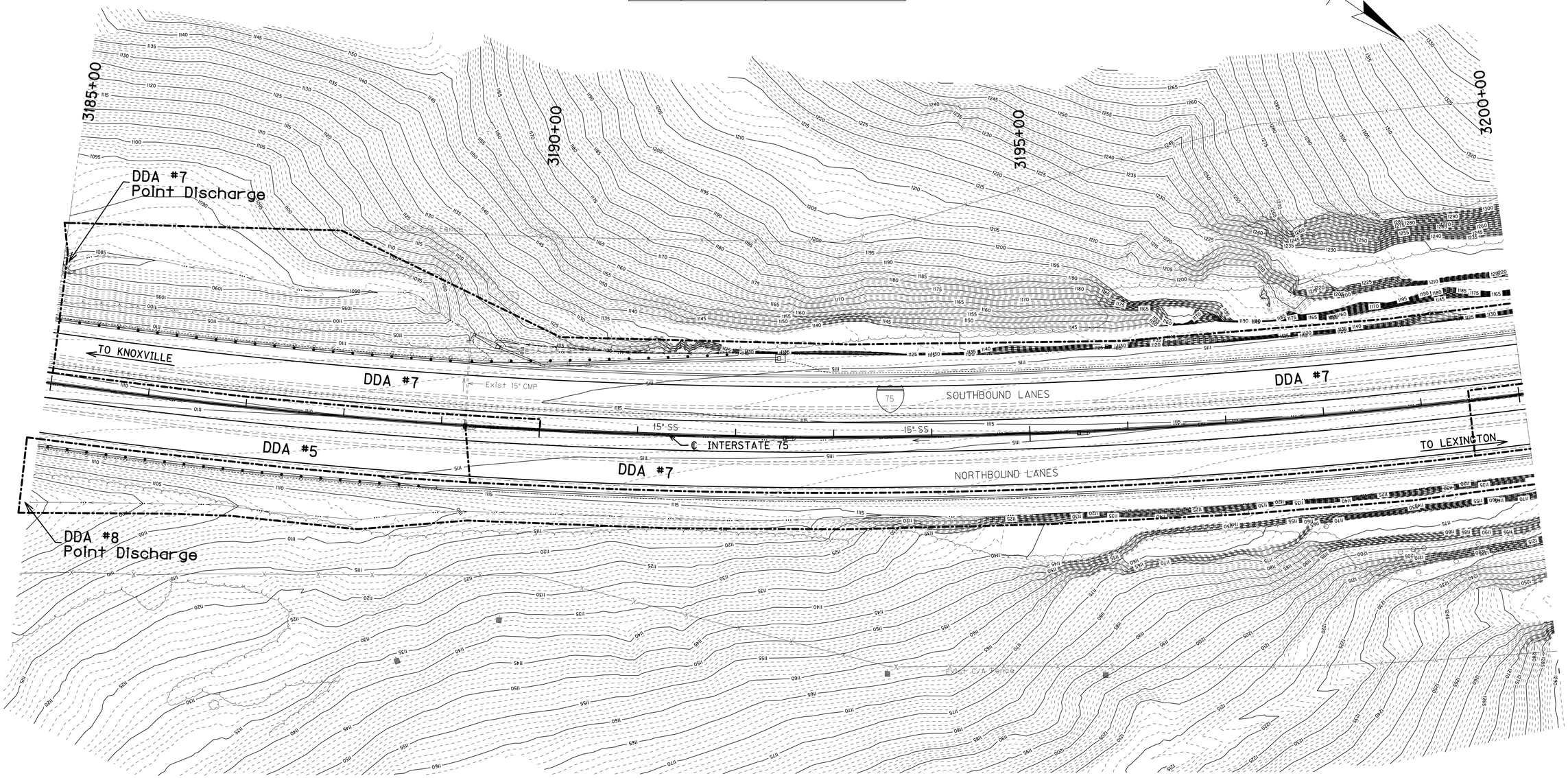
EROSION CONTROL PLAN
I-75
STA 3170+00 TO STA 3185+00

MicroStation v8.11.7.443 | E-SHEET NAME: R13400EC | USER: Tvonbehren DATE PLOTTED: September 13, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R13400EC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R135

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #7	5.4	19440
DDA #8	1.6	5760



SCALE: 1"= 50'

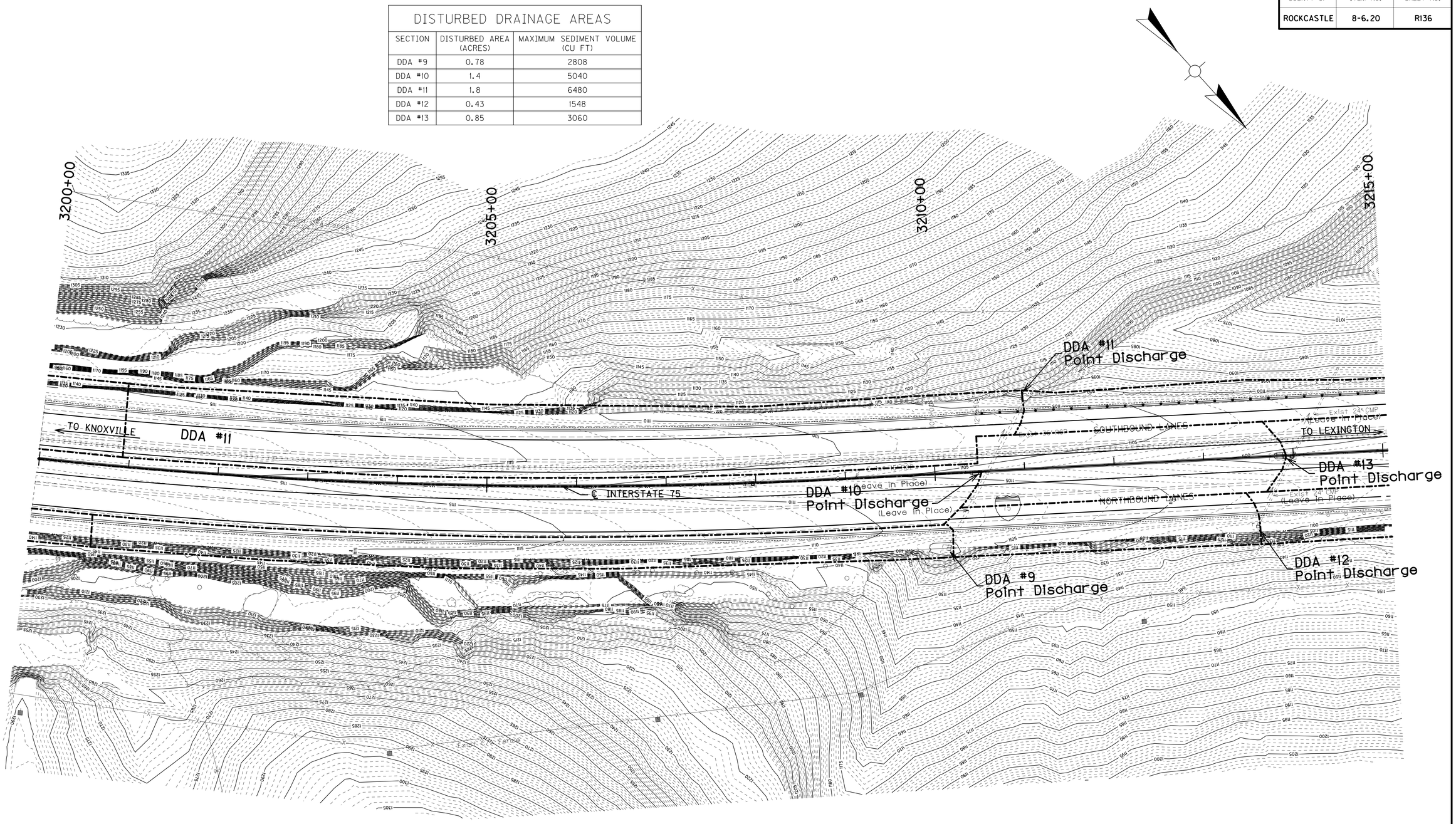
EROSION CONTROL PLAN
I-75
STA 3185+00 TO STA 3200+00

MicroStation v8.11.7.443 | E-SHEET NAME: R13500EC | USER: tvonbehren DATE PLOTTED: September 13, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R13500EC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R136

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #9	0.78	2808
DDA #10	1.4	5040
DDA #11	1.8	6480
DDA #12	0.43	1548
DDA #13	0.85	3060

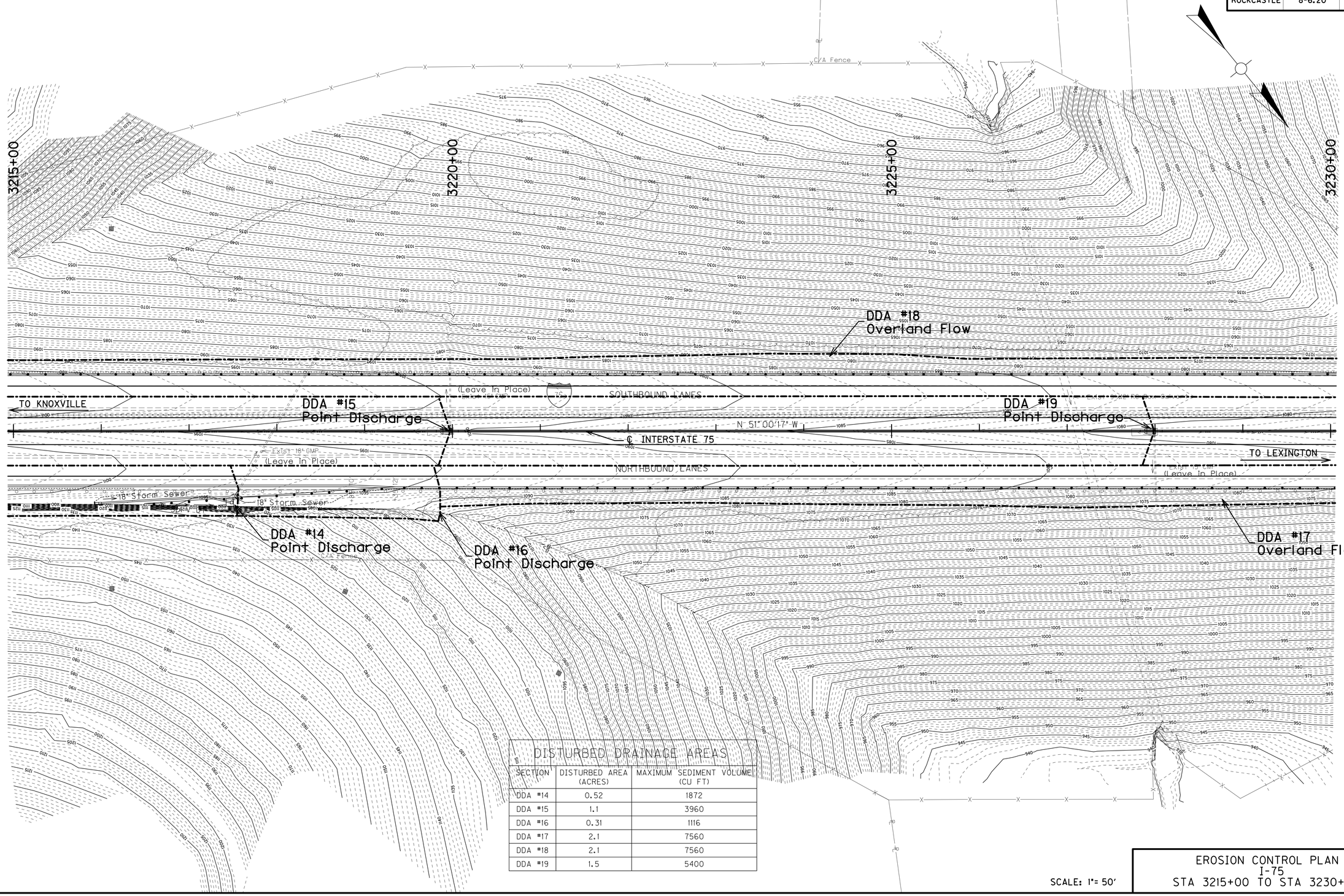


SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3200+00 TO STA 3215+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R3600EC.DGN
USER: tvanbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R3600EC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R137



DISTURBED DRAINAGE AREAS

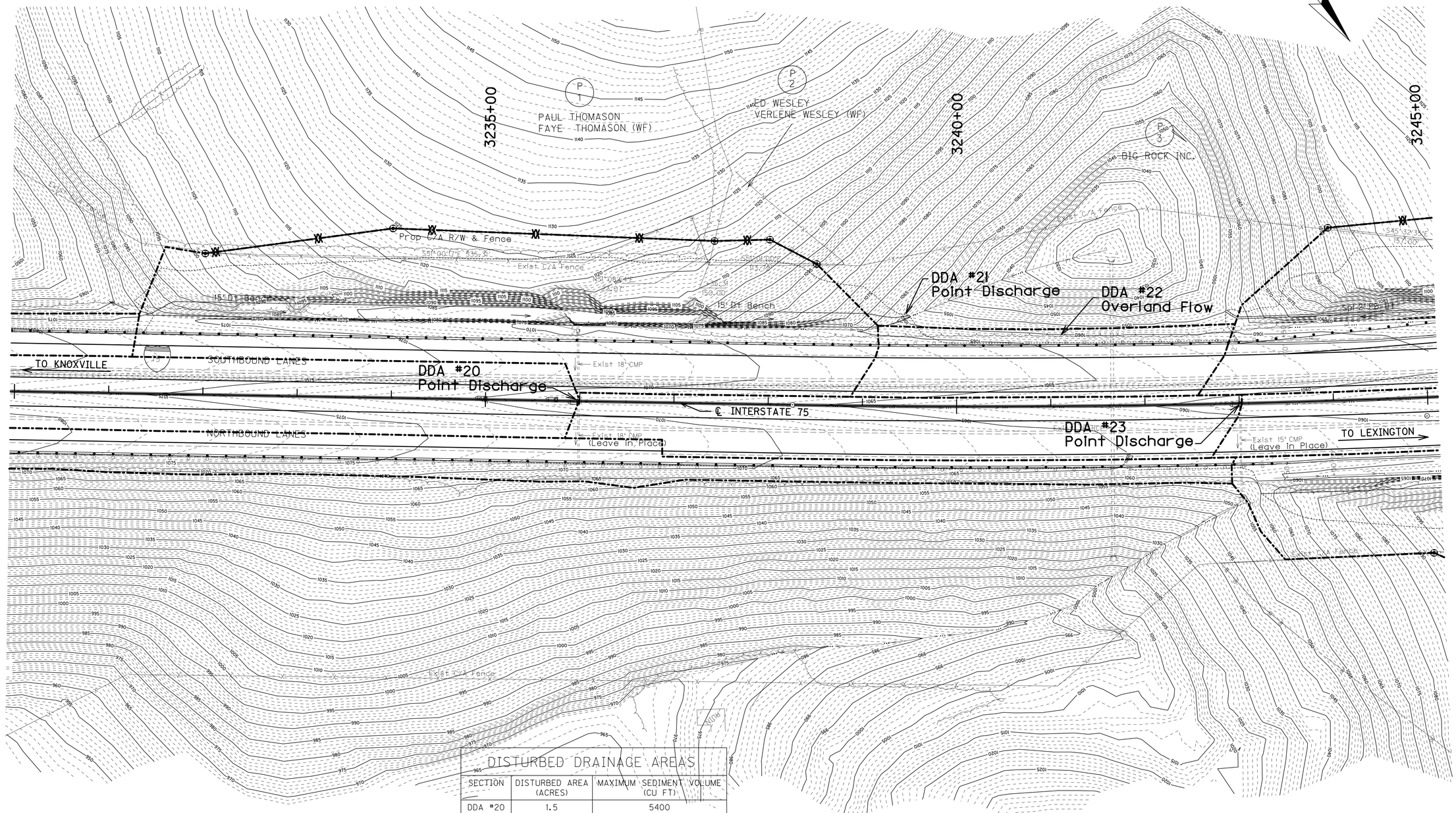
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #14	0.52	1872
DDA #15	1.1	3960
DDA #16	0.31	1116
DDA #17	2.1	7560
DDA #18	2.1	7560
DDA #19	1.5	5400

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3215+00 TO STA 3230+00

MicroStation v8.11.7.443 E-SHEET NAME: R13700EC USER: tvanbehren DATE PLOTTED: September 13, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R13700EC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R138



DISTURBED DRAINAGE AREAS

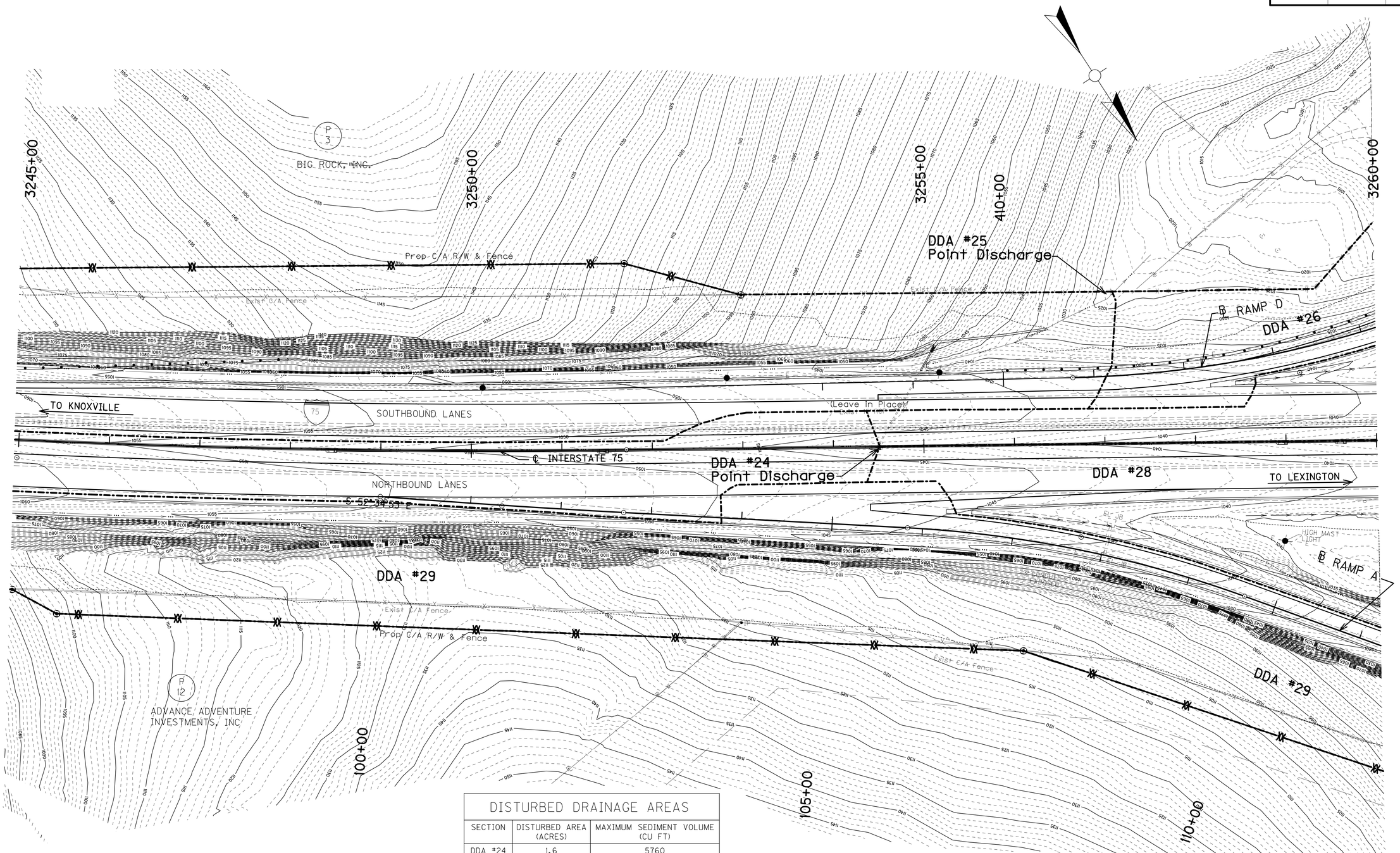
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #20	1.5	5400
DDA #21	2.5	9000
DDA #22	0.63	2268
DDA #23	1.0	3600

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3230+00 TO STA 3245+00

MicroStation v8.11.7.443 | E-SHEET NAME: R138OEC | USER: tvanbehren DATE PLOTTED: September 13, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R138OEC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R139



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #24	1.6	5760
DDA #25	5.4	19440

SCALE: 1"= 50'

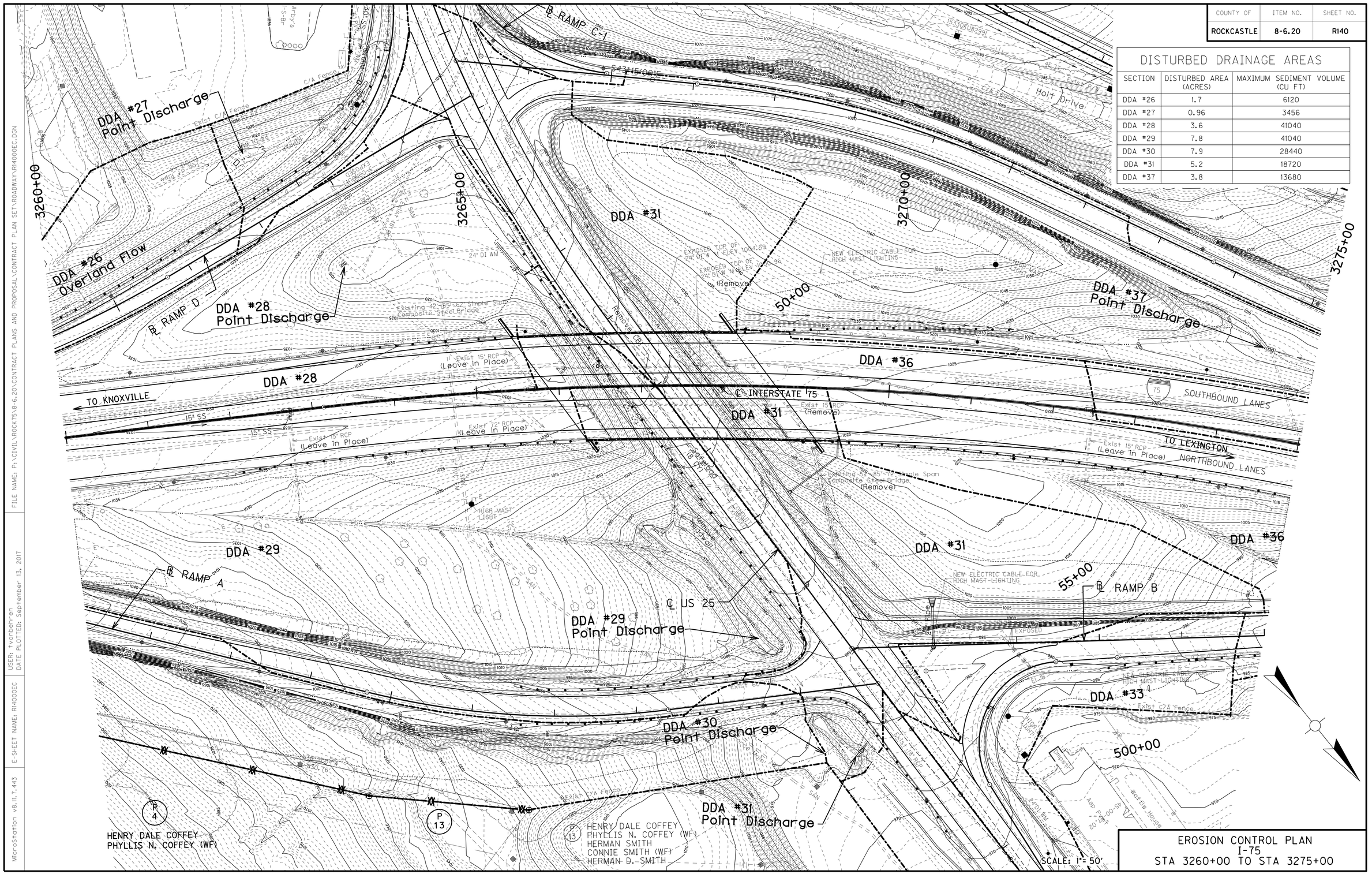
EROSION CONTROL PLAN
I-75
STA 3245+00 TO STA 3260+00

MicroStation v8.11.7.443 E-SHEET NAME: R139OOEC USER: tvanbehren DATE PLOTTED: September 13, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R139OOEC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R140

DISTURBED DRAINAGE AREAS

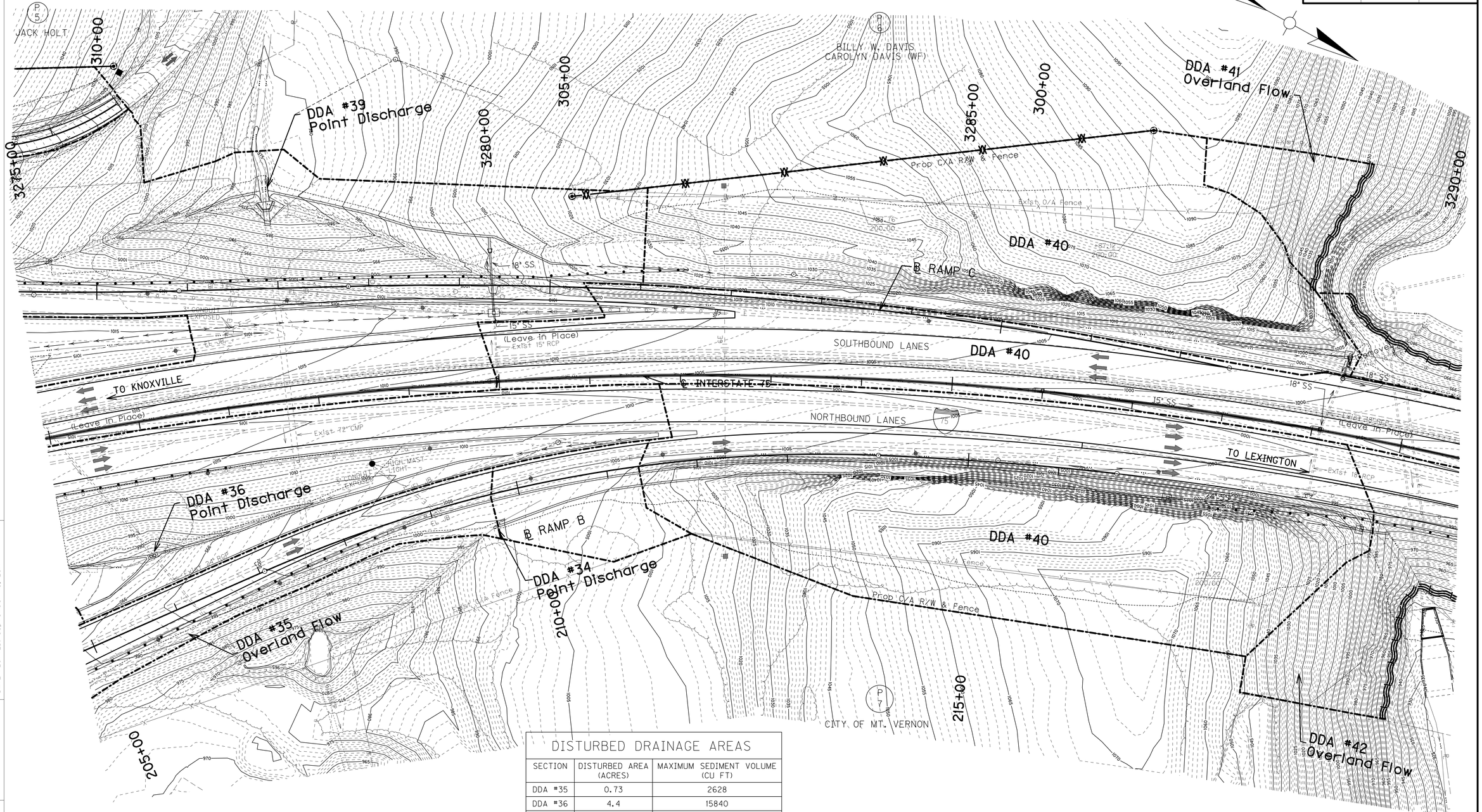
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #26	1.7	6120
DDA #27	0.96	3456
DDA #28	3.6	41040
DDA #29	7.8	41040
DDA #30	7.9	28440
DDA #31	5.2	18720
DDA #37	3.8	13680



EROSION CONTROL PLAN
I-75
STA 3260+00 TO STA 3275+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R14000EC.DGN
USER: tvonbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R14000EC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R141



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #35	0.73	2628
DDA #36	4.4	15840
DDA #34	0.44	1584
DDA #39	10.4	37440
DDA #40A	3.0	10800
DDA #40B	4.0	14400
DDA #41	0.34	1224
DDA #42	1.0	3600

SCALE: 1"= 50'

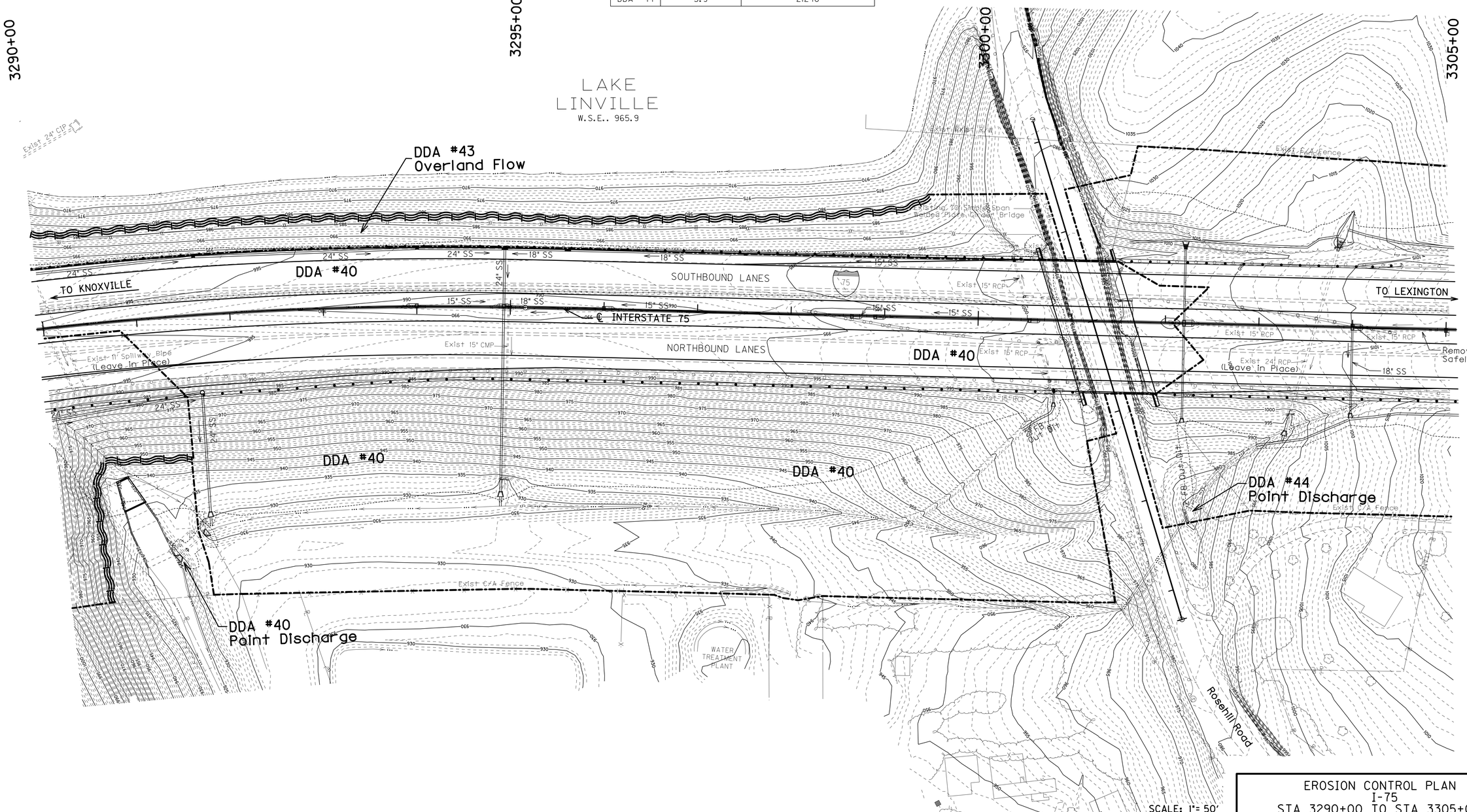
EROSION CONTROL PLAN
I-75
STA 3275+00 TO STA 3290+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R141OEC.DGN
USER: tvonbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R141OEC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R142

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #40	10.7	38520
DDA #42	1.2	4320
DDA #43	1.3	4680
DDA #44	5.9	21240



SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3290+00 TO STA 3305+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R14200EC.DGN

USER: tvanbehren
DATE PLOTTED: September 13, 2017

E-SHEET NAME: R14200EC

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R143

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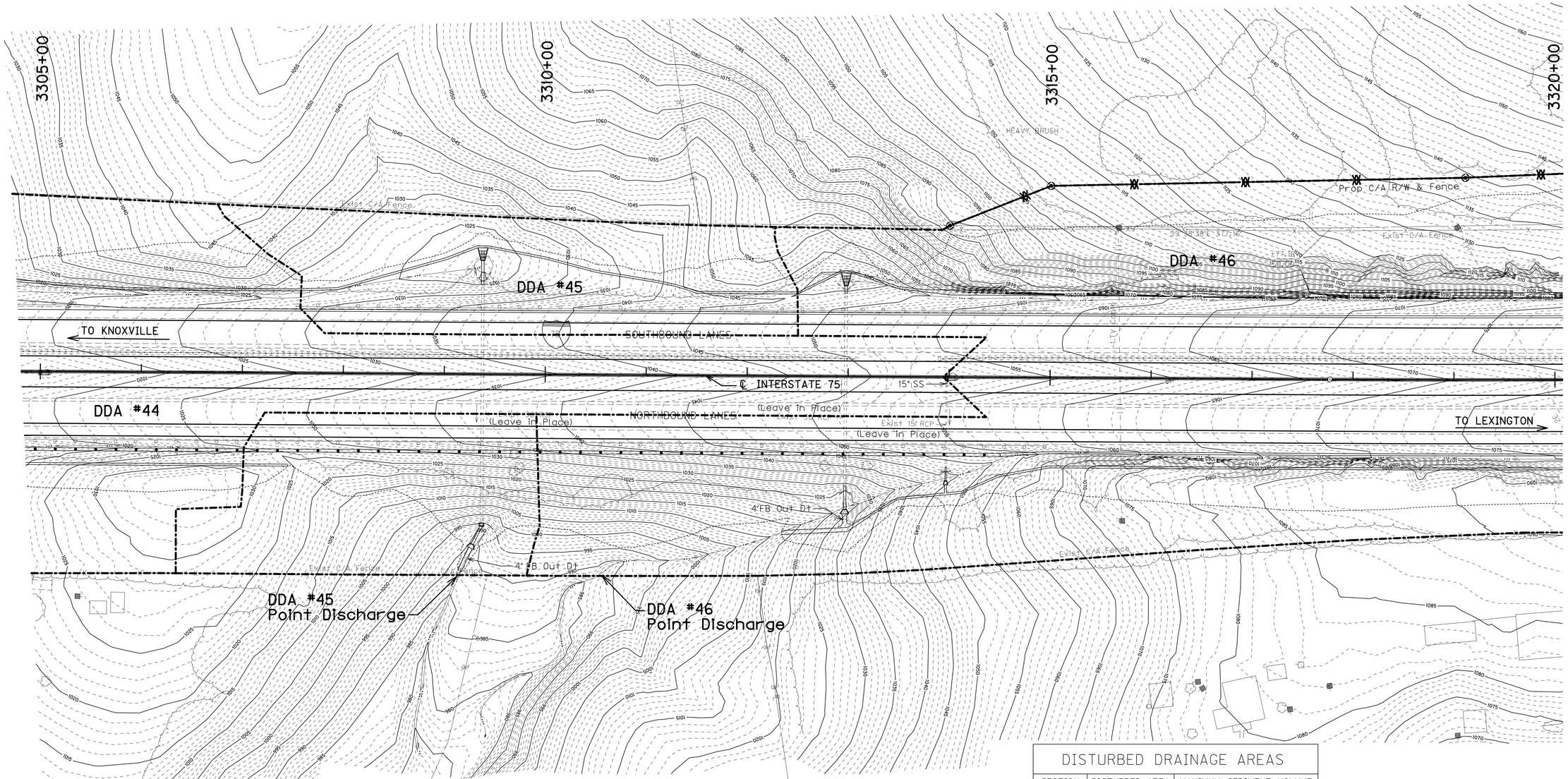
K.R. BURDETTE



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #45	2.4	8640
DDA #46	11.9	42840

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3305+00 TO STA 3320+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R143OEC.DGN
USER: tvonbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R143OEC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R144

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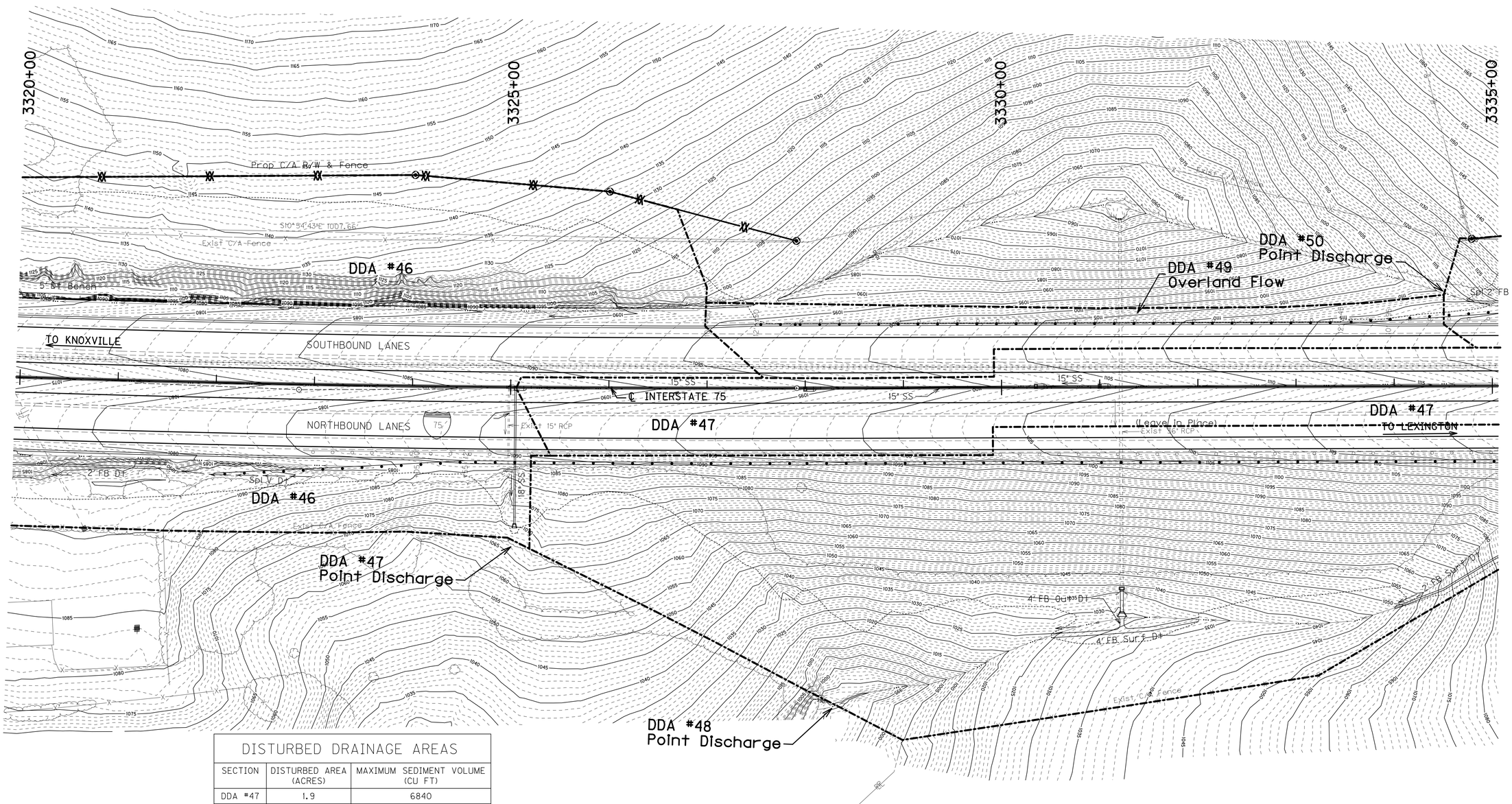
K.R. BURDETTE



DISTURBED DRAINAGE AREAS

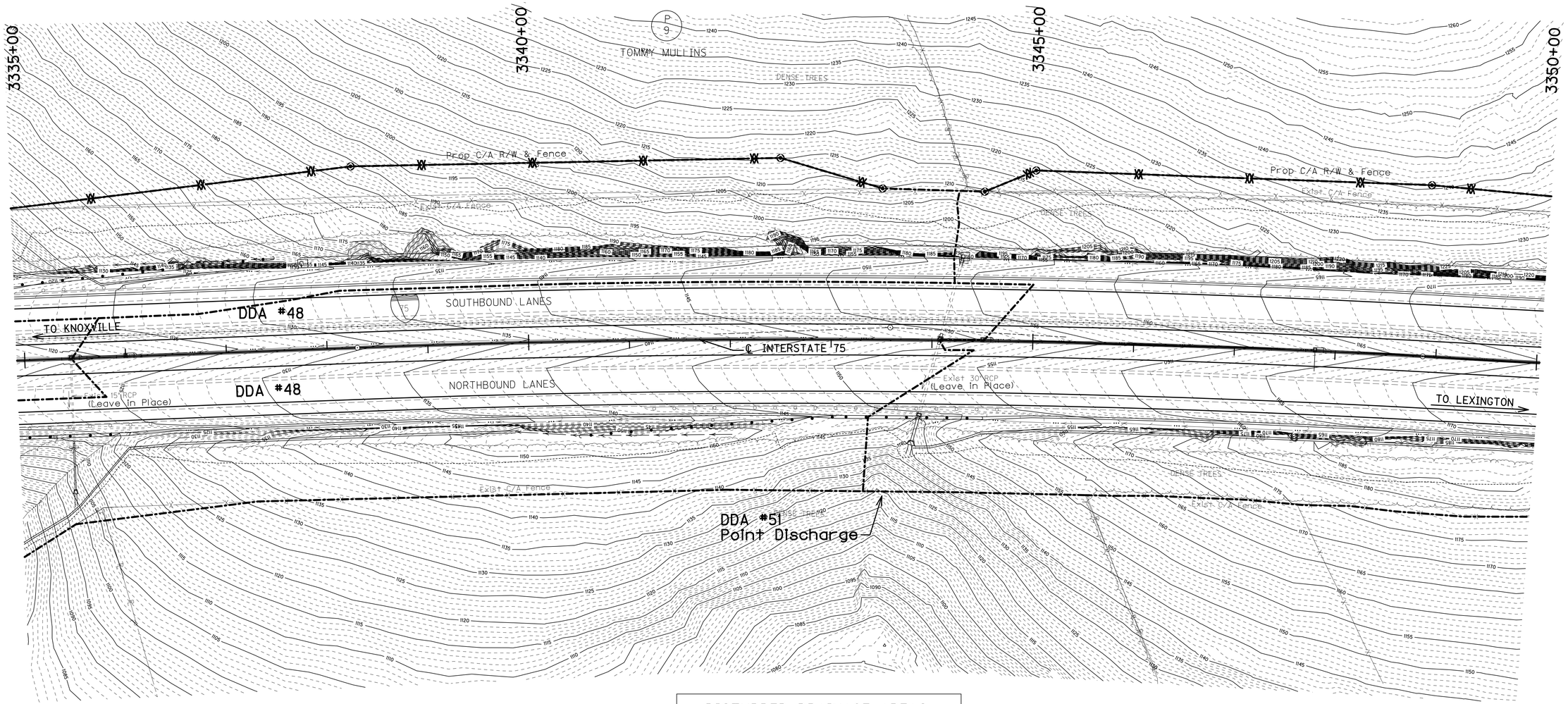
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #47	1.9	6840
DDA #48	9.3	33480
DDA #49	0.90	3240
DDA #50	2.6	9360

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3320+00 TO STA 3335+00

MicroStation v8.11.7.443 E-SHEET NAME: R144OOEC USER: tvonbehren DATE PLOTTED: September 13, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R144OOEC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R145



DISTURBED DRAINAGE AREAS

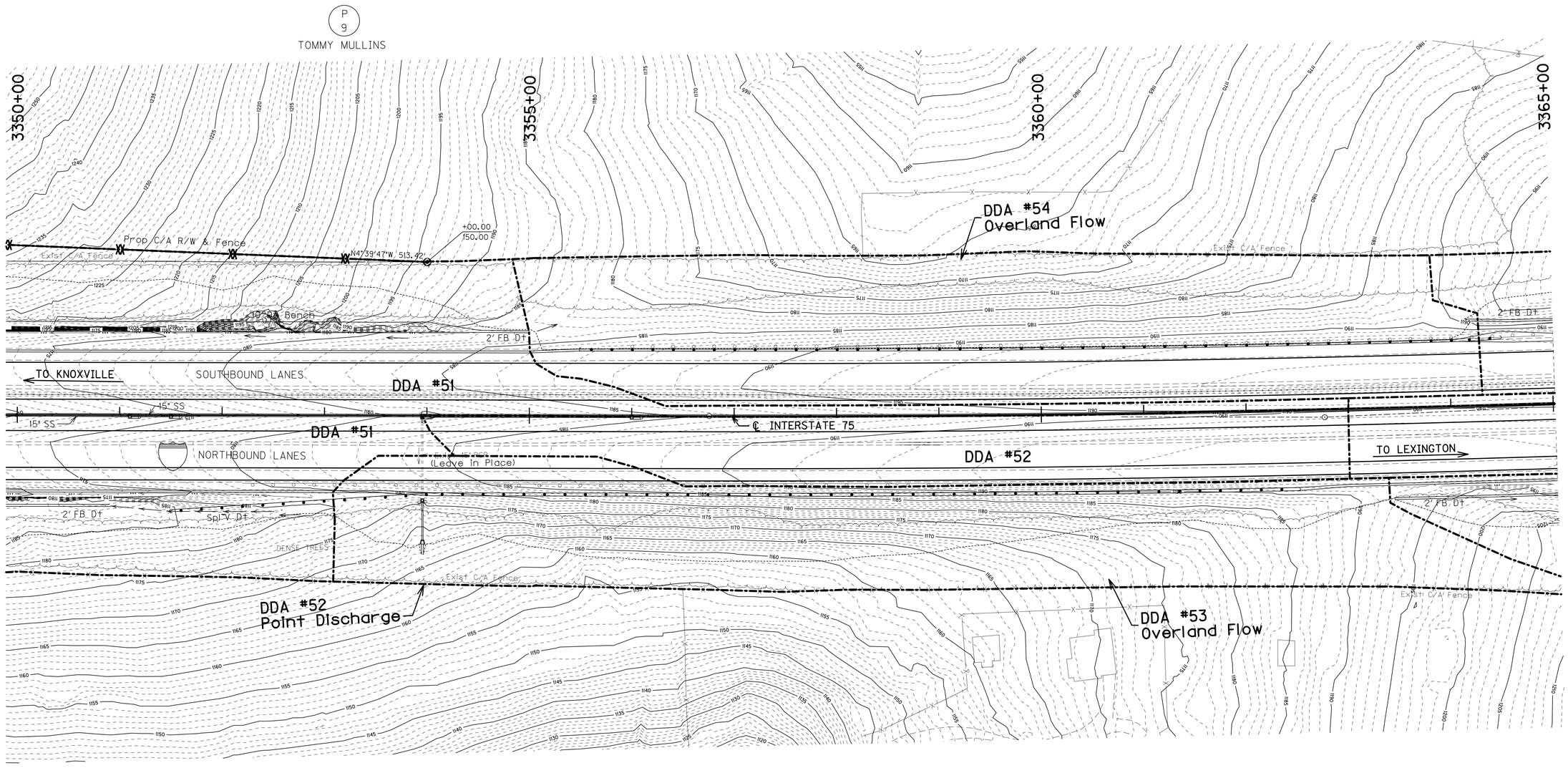
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #51	7.6	27360

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3335+00 TO STA 3350+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R14500EC.DGN
USER: tvonbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R14500EC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R146



DISTURBED DRAINAGE AREAS

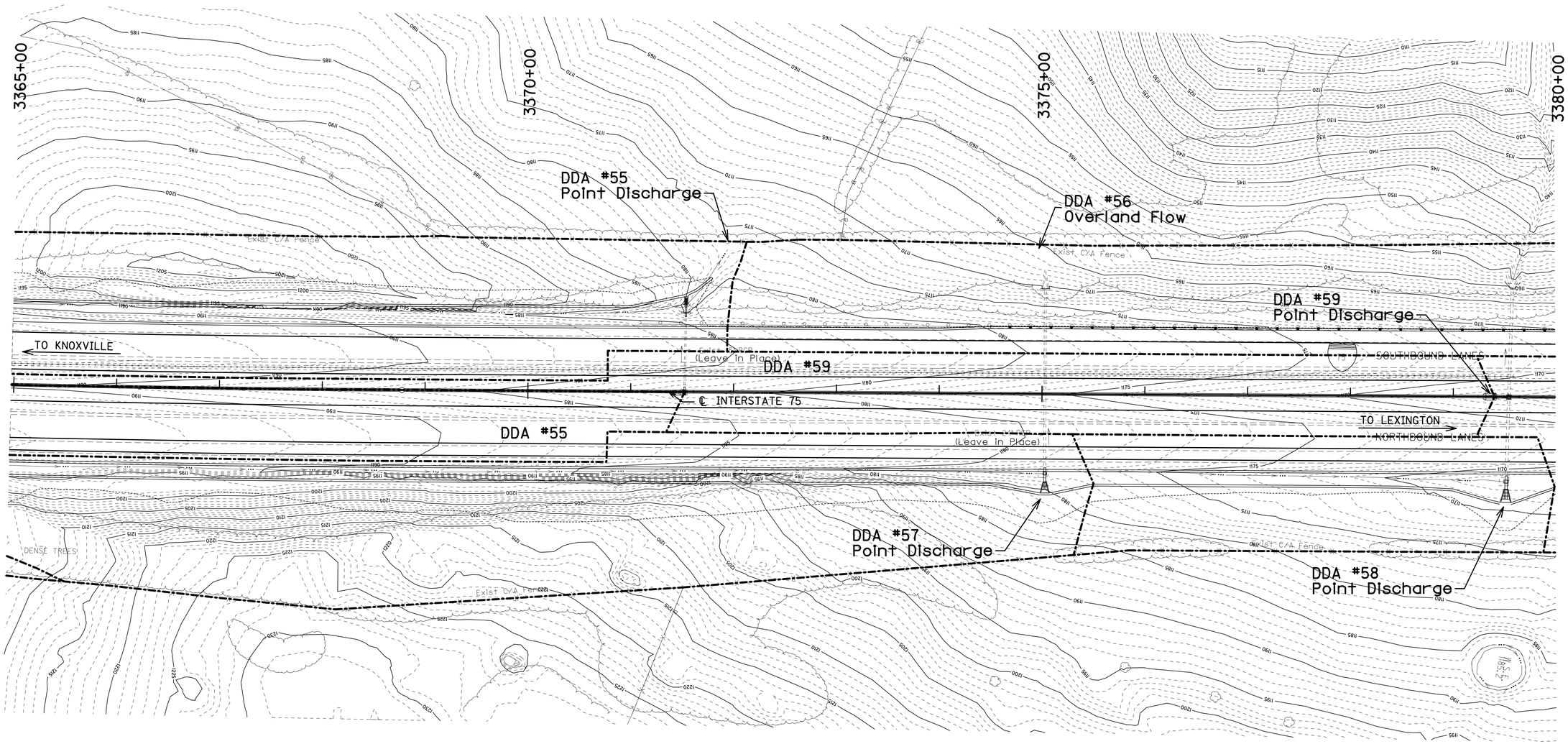
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #52	1.3	4680
DDA #53	2.8	10080
DDA #54	3.0	10800

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3350+00 TO STA 3365+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R146OOEC.DGN
USER: tvanbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R146OOEC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R147



DISTURBED DRAINAGE AREAS

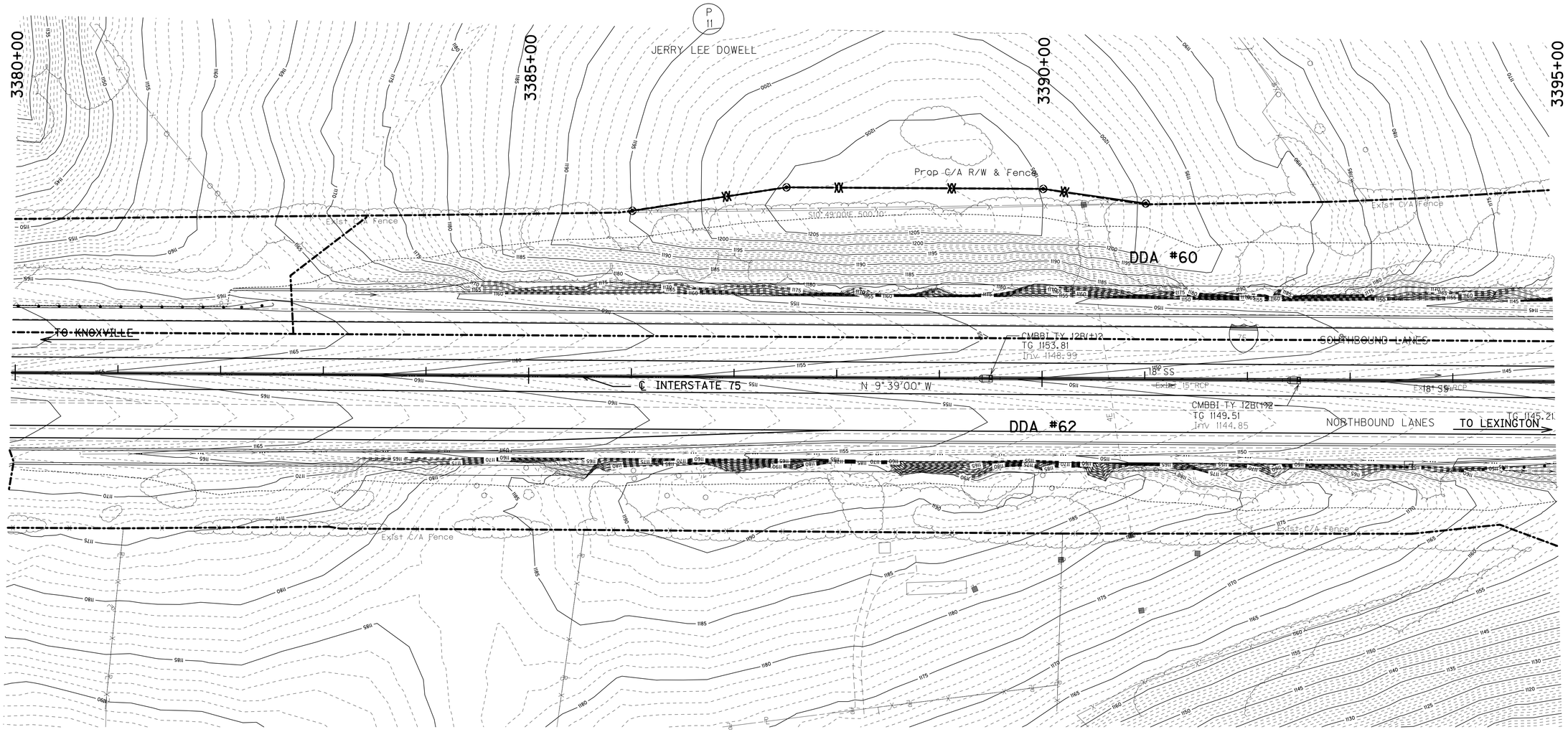
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #55	3.7	13320
DDA #56	2.7	9720
DDA #57	3.5	12600
DDA #58	1.2	4320
DDA #59	1.7	6120

SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3365+00 TO STA 3380+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R147OOEC.DGN
USER: tvonbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R147OOEC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R148

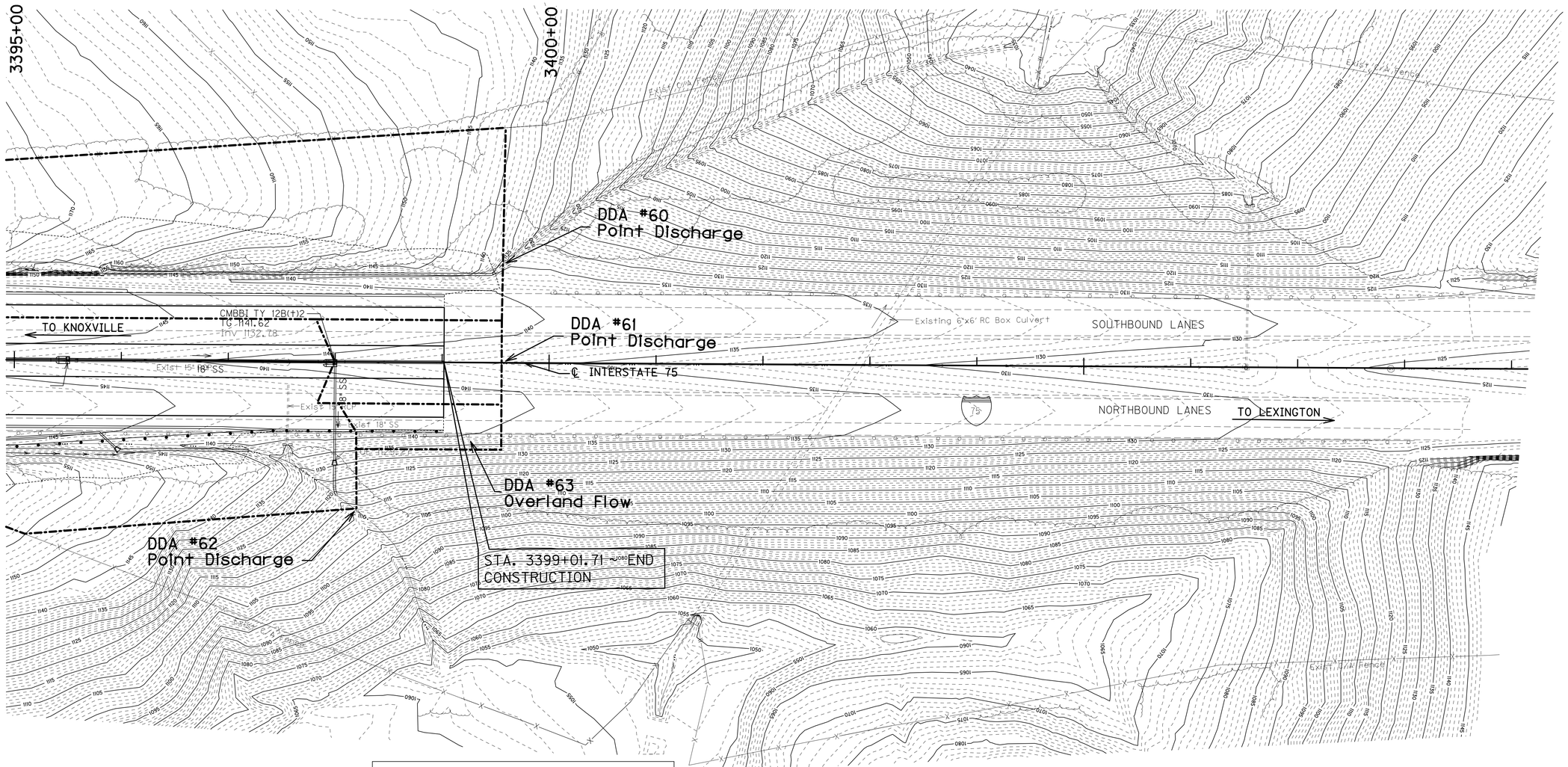


SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3380+00 TO STA 3395+00

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R148OOEC.DGN
USER: tvanbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R148OOEC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R149



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #60	5.4	19440
DDA #61	0.30	1080
DDA #62	8.0	28800
DDA #63	0.14	504

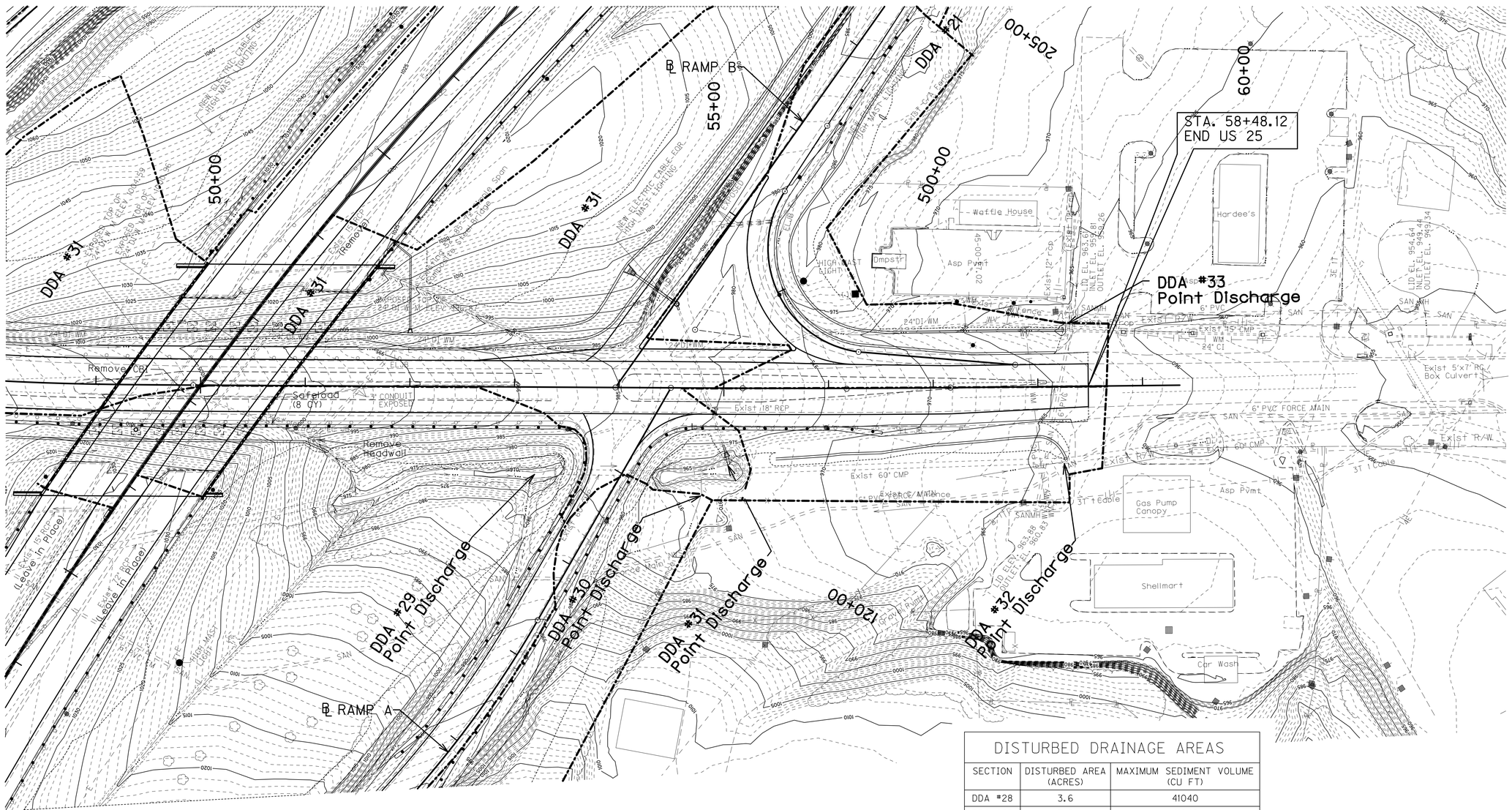
SCALE: 1"= 50'

EROSION CONTROL PLAN
I-75
STA 3395+00 TO STA 3399+01.71

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R149OOEC.DGN
USER: tvonbehren
DATE PLOTTED: September 13, 2017
E-SHEET NAME: R149OOEC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R150

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R151



DISTURBED DRAINAGE AREAS

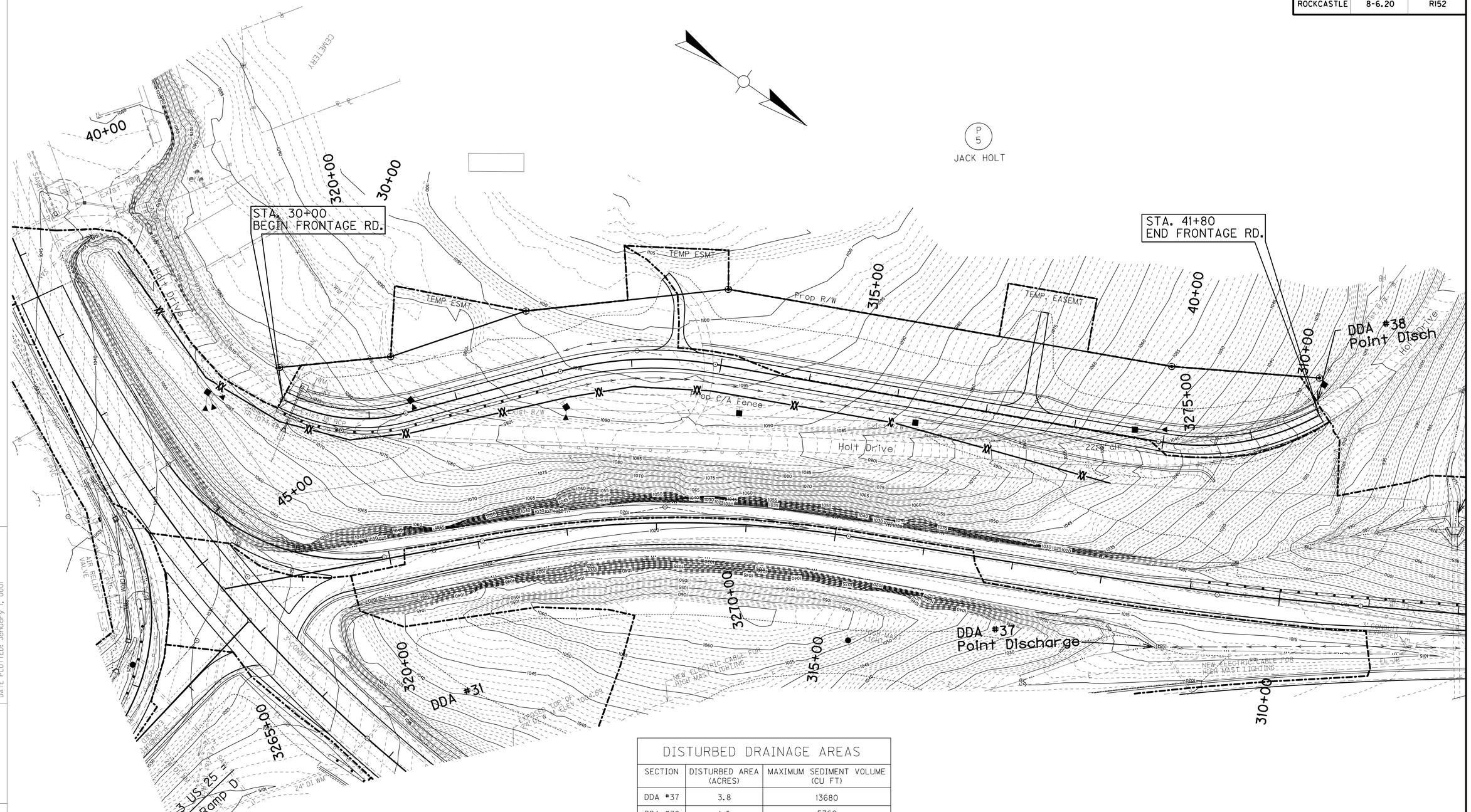
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #28	3.6	41040
DDA #29	7.8	41040
DDA #30	7.9	28440
DDA #31	5.2	18720
DDA #32	0.87	3132
DDA #33	1.5	5400

SCALE: 1"= 50'

EROSION CONTROL PLAN
US 25
STA 50+00 TO STA 58+48.12

MicroStation v8.11.7.443 E-SHEET NAME: R1500EC USER: tvonbehren DATE PLOTTED: September 13, 2017 FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R1500EC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R152



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA #37	3.8	13680
DDA #38	1.6	5760

SCALE: 1"= 50'

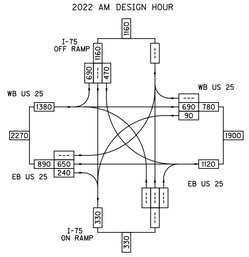
EROSION CONTROL PLAN
FRONTAGE ROAD
STA 30+00 TO STA 41+80

MicroStation v8.11.7.443 | E-SHEET NAME: R15200EC | USER: tvonbehren DATE PLOTTED: January 1, 0001 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R15200EC.DGN

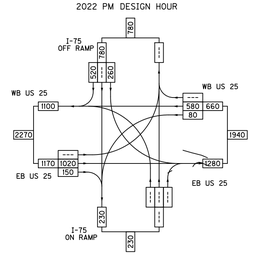
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R153

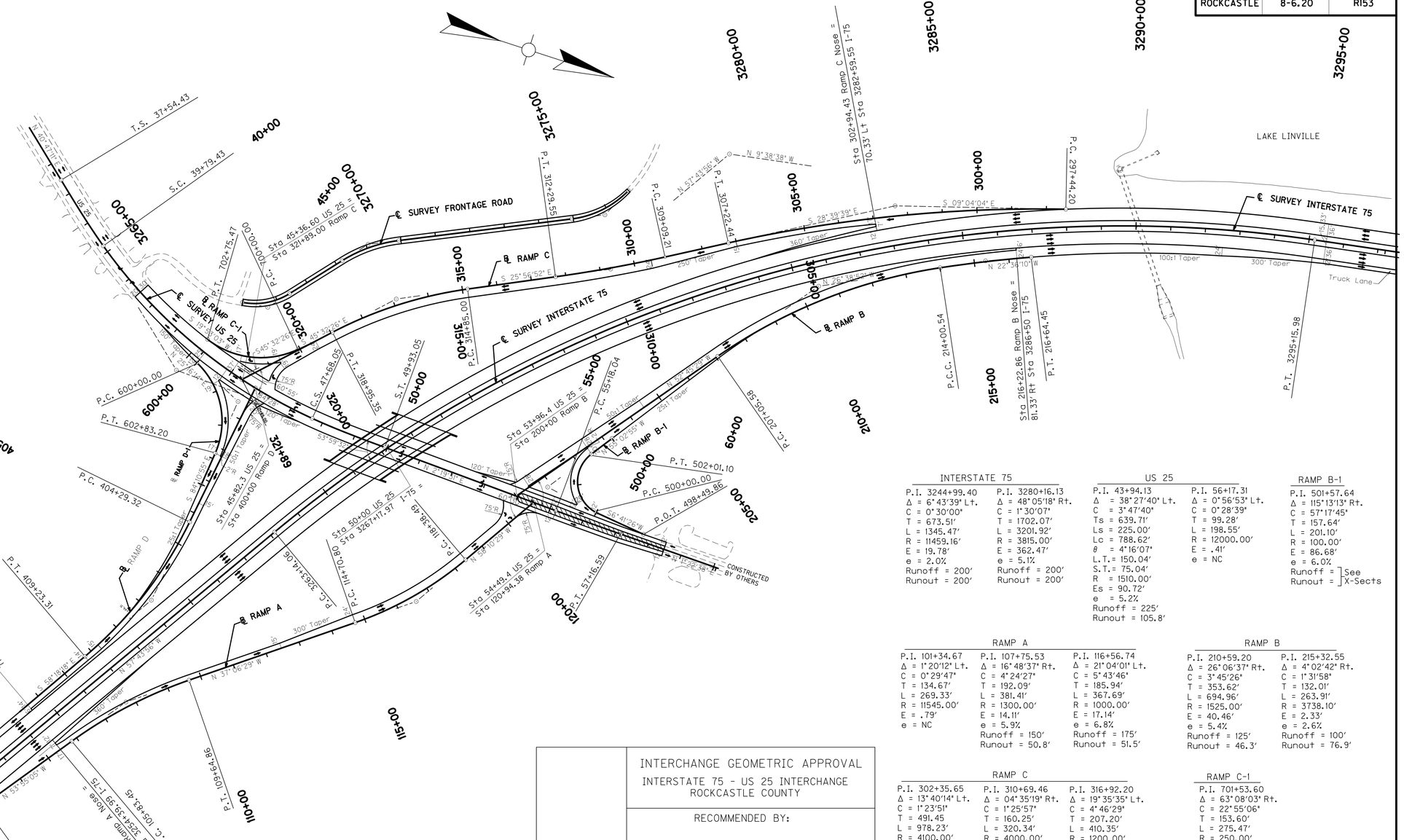
I-75 Southbound Ramps / US 25

2022 AM DESIGN HOUR



2022 PM DESIGN HOUR




LAKE LINVILLE
℄ SURVEY INTERSTATE 75
℄ SURVEY FRONTAGE ROAD
℄ RAMP C
℄ RAMP C-1
℄ SURVEY US 25
℄ RAMP B
℄ RAMP B-1
℄ RAMP A
℄ RAMP D
℄ RAMP D-1
Truck Lane
CONSTRUCTED BY OTHERS
T.S. 37+54.43
S.C. 39+79.43
P.C. 600+00.00
P.T. 602+83.20
P.C. 404+29.32
P.T. 409+23.31
P.T. 325+71.36
P.C. 100+00.00
P.T. 102+69.33
P.C. 105+83.45
P.T. 109+64.86
P.C. 207+05.58
P.T. 502+01.10
P.C. 500+00.00
P.O.T. 498+49.86
P.T. 57+16.59
P.C. 297+44.20
P.T. 329+15.98
Sta 45+36.60 US 25 = Sta 321+89.00 Ramp C
Sta 45+82.3 US 25 = Sta 400+00 Ramp D
Sta 53+96.4 US 25 = Sta 200+00 Ramp B
Sta 54+43.4 US 25 = Sta 120+94.38 Ramp A
Sta 50+00 US 25 = Sta 326+71.97 I-75
Sta 302+94.43 Ramp C Nose = 70.33' Lt Sta 3282+59.55 I-75
Sta 216+22.86 Ramp B Nose = 81.33' Rt Sta 3286+50 I-75
Sta 41+38.83 Ramp D Nose = 71.37' Lt Sta 3254+50.00 I-75
Sta 105+42.62 Ramp A Nose = 87.33' Rt Sta 3254+59.99 I-75
100:1 Taper
300' Taper
360' Taper
250' Taper
201' Taper
120' Taper
75'R
60'R
50'R
40'R
30'R
25'R
20'R
15'R
10'R
S 09°04'04" E
N 9°38'38" W
N 22°34'10" W
N 26°38'52" W
N 37°06'23" W
N 53°45'00" W
N 52°34'51" W
N 51°00'17" W
S 25°56'52" E
S 28°39'39" E
N 57°43'56" W
N 62°41'26" W
N 30°10'23" W
N 21°19'40" E
S 84°10'55" E
S 58°18'18" E
N 67°42'06" W
S 45°32'26" E
N 19°18'09" E
N 35°16'24" E
N 62°02'59" W
N 56°41'26" W
N 21°04'01" E
N 5°43'46" E
N 14°24'27" E
N 16°48'37" E
N 4°24'27" E
N 1°20'12" E
N 1°30'07" E
N 3°47'40" E
N 0°56'53" E
N 0°28'39" E
N 0°30'00" E
N 0°29'47" E
N 0°30'00" E
N 0°30'07" E
N 0°56'53" E
N 0°28'39" E
N 3°47'40" E
N 4°46'29" E
N 1°23'51" E
N 4°35'19" E
N 1°25'57" E
N 4°35'19" E
N 1°23'51" E
N 4°46'29" E
N 1°20'12" E

COORDINATE CONTROL POINTS

POINT NO.	DESCRIPTION	Project Coordinates			STATION and OFFSET	State Plane Coordinates	
		EAST (X)	NORTH (Y)	ELEV. (Z)		EAST (X)	NORTH (Y)
1	ALUMINUM DISK IN CONC	2051510.037	2026832.669	997.590	3300+05.050, 79.338 LEFT	2051298.216	2026623.396
2	ALUMINUM DISK IN CONC	2051423.545	2028244.916	1053.543	3314+11.828, 71.978 RIGHT	2051211.733	2028035.497
3	ALUMINUM DISK IN CONC	2050528.041	2032209.049	1186.568	3354+67.159, 108.285 LEFT	2050316.321	2031999.221
4	ALUMINUM DISK IN CONC	2050614.950	2033120.937	1193.343	3363+59.453, 96.864 RIGHT	2050403.221	2032911.015
5	ALUMINUM DISK IN CONC	2050060.214	2036408.952	1144.741	3396+91.962, 95.753 RIGHT	2049848.543	2036198.690
51	ALUMINUM DISK IN CONC	2059823.085	2017387.848	1102.590	3170+81.498, 115.079 RIGHT	2059610.406	2017179.550
52	ALUMINUM DISK IN CONC	2058990.354	2019319.380	1119.308	3191+55.514, 110.645 RIGHT	2058777.760	2019110.883
56	ALUMINUM DISK IN CONC	2051721.064	2025807.713	994.644	3289+69.207, 82.965 LEFT	2051509.221	2025598.546
100	REBAR AND PLASTIC CAP	2059766.934	2017007.635	1101.858	3167+22.156, 12.686 LEFT	2059554.260	2016799.376
101	REBAR AND PLASTIC CAP	2059708.857	2017336.249	1101.813	3170+56.469, 7.69 LEFT	2059496.189	2017127.956
102	REBAR & ALUMINUM CAP	2059609.999	2017695.098	1104.474	3174+29.407, 14.039 LEFT	2059397.342	2017486.768
103	REBAR & ALUMINUM CAP	2059354.346	2018396.855	1108.502	3181+78.628, 13.602 LEFT	2059141.715	2018188.453
104	REBAR & ALUMINUM CAP	2058996.301	2019078.202	1112.572	3189+50.787, 14.209 LEFT	2058783.707	2018869.729
107	REBAR & ALUMINUM CAP	2058172.280	2020117.561	1116.353	3202+83.969, 18.352 LEFT	2057959.771	2019908.981
110	REBAR & ALUMINUM CAP	2056864.896	2021225.869	1091.981	3220+00.566, 11.822 LEFT	2056652.522	2021017.175
111	REBAR & ALUMINUM CAP	2056240.923	2021729.084	1080.611	3228+02.168, 13.362 LEFT	2056028.613	2021520.338
112	REBAR & ALUMINUM CAP	2055619.231	2022232.929	1069.664	3236+02.393, 12.977 LEFT	2055406.986	2022024.131
114	REBAR & ALUMINUM CAP	2054426.204	2023105.653	1049.879	3250+83.118, 16.616 LEFT	2054214.082	2022896.765
115	REBAR & ALUMINUM CAP	2054112.945	2023305.004	1044.603	3254+54.556, 15.634 LEFT	2053900.855	2023096.095
117	REBAR & ALUMINUM CAP	2053366.233	2023791.964	1033.944	3263+45.902, 2.664 LEFT	2053154.220	2023583.005
118	REBAR & ALUMINUM CAP	2052969.272	2024078.969	1027.388	3268+35.416, 7.417 LEFT	2052757.300	2023869.980
123	REBAR & ALUMINUM CAP	2051497.066	2027308.083	1016.400	3304+75.918, 12.482 LEFT	2051285.246	2027098.761
124	REBAR & ALUMINUM CAP	2051401.048	2027878.431	1038.484	3310+54.291, 11.596 LEFT	2051189.238	2027669.050
125	REBAR & ALUMINUM CAP	2051296.764	2028486.056	1064.114	3316+70.800, 12.614 LEFT	2051084.965	2028276.612
126	REBAR & ALUMINUM CAP	2051192.927	2029045.329	1082.445	3322+39.931, 16.623 LEFT	2050981.139	2028835.827
127	REBAR & ALUMINUM CAP	2051088.984	2029572.134	1095.483	3327+77.253, 13.709 LEFT	2050877.206	2029362.578
128	REBAR & ALUMINUM CAP	2050973.691	2030111.489	1112.742	3333+28.800, 12.617 LEFT	2050761.925	2029901.877
129	REBAR & ALUMINUM CAP	2050857.644	2030639.129	1131.793	3338+68.997, 14.796 LEFT	2050645.890	2030429.463
130	REBAR & ALUMINUM CAP	2050755.086	2031198.362	1151.313	3344+36.921, 13.072 LEFT	2050543.343	2030988.638
131	REBAR & ALUMINUM CAP	2050671.141	2031791.913	1172.552	3350+35.859, 16.301 LEFT	2050459.406	2031582.128
133	REBAR & ALUMINUM CAP	2050541.274	2032852.840	1191.837	3361+04.968, 14.17 LEFT	2050329.553	2032642.945

BASIS OF ELEVATIONS

The origin of elevations for this project is Control Monument 51. The NAVD 88 elevation of this monument is 1102.59 US feet. The elevation of all the other control monuments for this project is based on closed differential level loops from this monument using a Trimble DiNi Digital Level.

All distances, elevations and coordinates shown on this sheet are in U.S. Feet.

△ This symbol along with the control monument number is how all control monument locations are shown on the plan sheets for this project

COORDINATE CONTROL POINTS

POINT NO.	DESCRIPTION	Project Coordinates			STATION and OFFSET	State Plane Coordinates	
		EAST (X)	NORTH (Y)	ELEV. (Z)		EAST (X)	NORTH (Y)
134	REBAR & ALUMINUM CAP	2050477.742	2033287.480	1191.939	3365+44.477, 13.657 LEFT	2050266.027	2033077.540
135	REBAR & ALUMINUM CAP	2050391.003	2033804.287	1185.434	3370+68.703, 14.754 LEFT	2050179.297	2033594.294
136	REBAR & ALUMINUM CAP	2050299.252	2034354.237	1175.128	3376+26.252, 13.02 LEFT	2050087.556	2034144.187
137	REBAR & ALUMINUM CAP	2050201.701	2034916.561	1165.252	3381+96.971, 14.929 LEFT	2049990.015	2034706.453
139	REBAR & ALUMINUM CAP	2049991.337	2036155.051	1145.526	3394+53.200, 14.711 LEFT	2049779.673	2035944.815
140	REBAR & ALUMINUM CAP	2049866.363	2036892.108	1134.576	3402+00.777, 14.365 LEFT	2049654.712	2036681.796
142	REBAR & ALUMINUM CAP	2053217.694	2023911.929	1031.364	3265+36.462, 13.146 RIGHT	2053005.697	2023702.957
143	REBAR & ALUMINUM CAP	2059850.003	2016525.278	1104.478	3162+33.246, 13.108 RIGHT	2059637.321	2016317.069
150	REBAR & ALUMINUM CAP	2058772.352	2019467.586	1115.021	3193+98.978, 16.281 RIGHT	2058559.781	2019259.073
151	REBAR & ALUMINUM CAP	2058495.556	2019812.922	1116.401	3198+40.528, 12.733 RIGHT	2058283.014	2019604.374
152	REBAR & ALUMINUM CAP	2057791.666	2020508.728	1108.376	3208+29.172, 14.334 RIGHT	2057579.196	2020300.108
153	REBAR & ALUMINUM CAP	2057314.507	2020867.357	1099.729	3214+25.533, 7.537 LEFT	2057102.087	2020658.700
154	REBAR & ALUMINUM CAP	2054823.888	2022874.804	1055.749	3246+24.160, 13.24 RIGHT	2054611.725	2022665.939
155	REBAR & ALUMINUM CAP	2053751.171	2023541.478	1037.907	3258+86.706, 8.823 LEFT	2053539.118	2023332.545
156	REBAR & ALUMINUM CAP	2052416.622	2024642.837	1014.834	3276+24.166, 13.584 LEFT	2052204.707	2024433.790
157	REBAR & ALUMINUM CAP	2052105.402	2025106.634	1007.188	3281+81.225, 13.481 LEFT	2051893.519	2024897.539
158	REBAR & ALUMINUM CAP	2051821.088	2025730.516	997.731	3288+65.395, 12.846 LEFT	2051609.235	2025521.357
159	REBAR & ALUMINUM CAP	2051669.095	2026306.509	989.685	3294+59.841, 11.087 LEFT	2051457.257	2026097.290
160	REBAR & ALUMINUM CAP	2050649.892	2032249.605	1184.872	3354+92.792, 17.554 RIGHT	2050438.160	2032039.773
161	REBAR & ALUMINUM CAP	2050123.650	2035412.545	1155.412	3386+99.021, 8.735 LEFT	2049911.972	2035202.386
162	REBAR & ALUMINUM CAP	2055266.641	2022515.018	1064.231	3240+54.212, 13.335 LEFT	2055054.432	2022306.191
163	REBAR & ALUMINUM CAP	2053048.338	2024470.006	982.073	3270+45.471, 337.361 RIGHT	2052836.358	2024260.977
164	REBAR & ALUMINUM CAP	2052988.680	2023602.536	1026.032	3265+41.977, 371.741 LEFT	2052776.706	2023393.596
200	PK NAIL	2053924.003	2023544.100	1039.453	3257+41.966, 85.665 RIGHT	2053711.933	2023335.166
201	REBAR & ALUMINUM CAP	2053439.817	2024235.759	997.522	3265+45.364, 405.745 RIGHT	2053227.797	2024026.754
204	REBAR & ALUMINUM CAP	2052625.599	2023951.510	1020.255	3270+01.861, 330.219 LEFT	2052413.663	2023742.534
205	REBAR & ALUMINUM CAP	2052311.590	2024652.997	1016.024	3276+95.226, 90.701 LEFT	2052099.686	2024443.949
207	REBAR & ALUMINUM CAP	2053052.189	2024898.770	960.293	3273+95.491, 638.927 RIGHT	2052840.209	2024689.696
208	REBAR & ALUMINUM CAP	2052958.497	2023270.173	1039.562	3263+97.616, 662.493 LEFT	2052746.526	2023061.268

PROJECT COORDINATES

Coordinates for horizontal control points 1–5, 51, 52, and 56 were obtained by GPS methods and adjusted to the NAD83/1994 KY South Zone State Plane Coordinate System grid. They were then scaled by a Project Datum Factor of 1.000103262 to Project Coordinates on the surface. The coordinates of all other control points were obtained by closed loop total station traverses through the original control points 1–5, 51, 52, and 56.

The survey to prepare these plans began in 2000. Topographic data was collected over several years and then the project lay dormant from about 2007 until 2016. When survey work resumed in 2016, to use a Trimble R10 receiver and Trimble TSC3 data collector along with the KYCORS Network to collect RTK data required setting the Local Site Settings to Latitude N31° 42' 32.04561", Longitude W91° 00' 11.15949", Project Height –85.442 US Feet and Ground Scale Factor to 1.000103262.

CONTROL POINTS

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R155

Right of Way Monument Points

Station and Offset	Centerline Name	Type	Project Coordinates		State Plane Coordinates	
			North (Y)	East (X)	North (Y)	East (X)
3175+00,154.77 Left	I-75	1	2017721.414	2059455.243	2017644.801	2059377.045
3176+00, 206.14 Left	I-75	1	2017866.928	2059354.333	2017790.309	2059276.139
3181+00, 151.98 Left	I-75	1	2018270.764	2059258.150	2018194.130	2059179.959
3232+00, 150.00 Left	I-75	1	2021873.227	2055845.748	2021796.456	2055767.687
3233+98.79, 180.00 Left	I-75	1	2021974.999	2055672.373	2021898.224	2055594.319
3237+40.17, 172.55 Left	I-75	1	2022195.605	2055411.741	2022118.822	2055333.696
3237+98.87, 175.00 Left	I-75	1	2022230.637	2055364.578	2022153.852	2055286.535
3238+49.34, 150.00 Left	I-75	1	2022281.614	2055341.308	2022204.827	2055263.266
3244+00, 183.82 Left	I-75	1	2022585.108	2054890.266	2022508.310	2054812.241
3245+00, 165.36 Right	I-75	1	2022926.600	2055013.924	2022849.789	2054935.895
3245+49.63, 190.00 Right	I-75	1	2022975.928	2054987.202	2022899.115	2054909.174
3251+73.36, 205.81 Left	I-75	1	2022993.006	2054250.868	2022916.192	2054172.867
3252+74.39, 210.94 Right	I-75	1	2023400.404	2054386.251	2023323.575	2054308.245
3253+00, 169.58 Left	I-75	1	2023092.322	2054161.445	2023015.505	2054083.448
3254+73.67, 221.27 Right	I-75	1	2023515.530	2054223.261	2023438.697	2054145.262
3280+87.76, 200.00 Left	I-75	1	2024929.394	2051993.116	2024852.507	2051915.201
3282+11.54, 175.00 Right	I-75	1	2025225.173	2052254.914	2025148.275	2052176.989
3284+01.46, 240.00 Right	I-75	1	2025414.323	2052228.614	2025337.417	2052150.690
3286+87.12, 300.00 Left	I-75	1	2025455.268	2051618.395	2025378.361	2051540.494
3288+70.22, 260.00 Right	I-75	1	2025825.452	2052076.929	2025748.531	2051999.011
3314+00, 150.00 Left	I-75	1	2028196.069	2051206.686	2028119.058	2051128.801
3315+00, 190.00 Left	I-75	1	2028287.954	2051150.498	2028210.939	2051072.615
3319+11.25, 200.16 Left	I-75	1	2028690.468	2051071.340	2028613.438	2050993.460
3324+00.03, 215.00 Left	I-75	1	2029163.837	2050967.801	2029086.789	2050889.925
3326+00.03, 200.00 Left	I-75	1	2029361.059	2050943.155	2029284.004	2050865.280
3327+91.55, 150.00 Left	I-75	1	2029557.344	2050952.752	2029480.281	2050874.877
3338+30.11, 180.00 Left	I-75	1	2030566.200	2050704.309	2030489.099	2050626.443
3342+50, 180.00 Left	I-75	1	2030984.641	2050621.986	2030907.524	2050544.123
3343+50, 150.00 Left	I-75	1	2031089.713	2050634.266	2031012.592	2050556.403
3344+50, 148.06 Left	I-75	1	2031189.988	2050619.719	2031112.863	2050541.856
3345+00, 170.00 Left	I-75	1	2031236.648	2050590.152	2031159.521	2050512.290
3348+86.97, 170.00 Left	I-75	1	2031625.643	2050536.431	2031548.502	2050458.572
3354+00, 150.00 Left	I-75	1	2032136.759	2050494.268	2032059.598	2050416.410
3386+00, 161.27 Left	I-75	1	2035289.357	2049989.874	2035212.076	2049912.035
3387+50, 185.00 Left	I-75	1	2035433.257	2049941.334	2035355.971	2049863.497
3390+00, 185.00 Left	I-75	1	2035679.719	2049899.427	2035602.424	2049821.592
3391+00, 171.45 Left	I-75	1	2035780.575	2049896.020	2035703.276	2049818.185
107+99.95, 142.00 Right	Ramp A	1	2023649.104	2054085.158	2023572.265	2054007.164
111+00, 150.00 Right	Ramp A	1	2023872.926	2053914.196	2023796.079	2053836.208
114+00, 140.00 Right	Ramp A	1	2024106.111	2053724.921	2024029.255	2053646.940
116+73.90, 114.51 Right	Ramp A	1	2024312.658	2053507.981	2024235.794	2053430.009
29+80.14, 29.29 Left	Frontage Road	1	2023461.744	2052767.618	2023384.913	2052689.674
31+41.30, 65.00 Left	Frontage Road	1	2023556.376	2052686.659	2023479.541	2052608.718
33+00, 75.00 Left	Frontage Road	1	2023650.500	2052558.530	2023573.661	2052480.594
34+93.72, 85.00 Left	Frontage Road	1	2023821.449	2052409.292	2023744.604	2052331.361
39+95.10, 85.00 Left	Frontage Road	1	2024275.410	2052196.456	2024198.548	2052118.533
42+00.01, 36.12 Left	Frontage Road	1	2024417.586	2052112.616	2024340.718	2052034.697

RIGHT OF WAY MONUMENTS

MicroStation v8.11.7.443 E-SHEET NAME: R155OOCC USER: Jnapier DATE PLOTTED: September 14, 2017 FILE NAME: P:\CIVIL\ROCK75\FINAL\PLAN\R155OOCC.DGN

INTERSTATE 75

P.O.T.	3131+66.5600	N 1°30′11.83″ E	2059785.8117	2013458.8849

P.I.	3184+72.9660		2059925.0215	2018763.4646
P.C.	3156+54.1373	N 1°30′11.83″ E	2059851.0715	2015945.6060
P.T.	3208+91.5882	N 51°00′17.35″ W	2057734.2308	2020537.2267
M.O.C.	3182+72.8627		2059328.0447	2018488.2448
Rad Pt			2054138.0385	2016095.5350

P.I. = 3184+72.9660
Delta = 52°30′29.18″ Left
C = 1°00′09.18″
T = 2818.8288
L = 5237.4509
R = 5715.0000
E = 657.3638

P.I.	3244+99.4016		2054930.2422	2022807.4614
P.C.	3238+25.8904	N 51°00′17.35″ W	2055453.6944	2022383.6510
P.T.	3251+71.3650	N 57°43′55.90″ W	2054360.7467	2023167.0338
M.O.C.	3244+98.6277		2054918.7214	2022791.3880
Rad Pt			2048242.9632	2013477.6076

P.I. = 3244+99.4016
Delta = 6°43′38.54″ Left
C = 0°30′00.00″
T = 673.5113
L = 1345.4746
R = 11459.1559
E = 19.7757

P.I.	3280+16.1280		2051955.3233	2024685.7882
P.C.	3263+14.0581	N 57°43′55.90″ W	2053394.5288	2023777.0917
P.T.	3295+15.9824	N 9°38′38.13″ W	2051670.1848	2026363.8042
M.O.C.	3279+15.0203		2052256.9248	2024886.8406
Rad Pt			2055431.2708	2027002.9105

P.I. = 3280+16.1280
Delta = 48°05′17.77″ Right
C = 1°30′06.68″
T = 1702.0698
L = 3201.9243
R = 3815.0000
E = 362.4713

P.I.	3322+84.4364		2051206.4007	2029093.1342
P.C.	3317+77.1612	N 9°38′38.13″ W	2051291.3818	2028593.0278
P.T.	3327+91.5460	N 12°10′47.59″ W	2051099.3749	2029588.9907
M.O.C.	3322+84.3536		2051200.8888	2029092.0716
Rad Pt			2028696.9539	2024753.6470

P.I. = 3322+84.4364
Delta = 2°32′09.46″ Left
C = 0°15′00.00″
T = 507.2753
L = 1014.3849
R = 22918.3118
E = 5.6133

INTERSTATE 75

P.I.	3343+58.9124		2050768.6893	2031121.0757
P.C.	3338+30.1099	N 12°10′47.59″ W	2050880.2570	2030604.1765
P.T.	3348+86.9652	N 6°53′44.20″ W	2050705.2009	2031646.0532
M.O.C.	3343+58.5376		2050780.7155	2031123.0963
Rad Pt			2062081.4675	2033021.8483

P.I. = 3343+58.9124
Delta = 5°17′03.40″ Right
C = 0°30′00.00″
T = 528.8026
L = 1056.8554
R = 11459.1559
E = 12.1948

P.I.	3362+76.7161		2050538.3463	2033025.7513
P.C.	3356+75.6986	N 6°53′44.20″ W	2050610.5049	2032429.0813
P.T.	3368+77.5020	N 9°38′59.79″ W	2050437.5989	2033618.2645
M.O.C.	3362+76.6003		2050531.1981	2033024.7120
Rad Pt			2025791.3413	2029427.5620

P.I. = 3362+76.7161
Delta = 2°45′15.59″ Left
C = 0°13′45.06″
T = 601.0174
L = 1201.8034
R = 25000.0000
E = 7.2234

P.O.T.	3449+90.1673	N 9°38′59.79″ W	2049077.6882	2041616.1380

INTERSTATE 75
COORDINATE GEOMETRY

MicroStation v8.11.7.443 | E-SHEET NAME: R156OCC | USER: lstaggs DATE PLOTTED: September 11, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R156OCC.DGN

US 25

P.O.T.	35+72.5630	N 40°47′10.68″ E	2052502.1203	2022742.2125
P.I.	43+94.1325		2053038.8020	2023364.2649
T.S.	37+54.4255	N 40°47′10.68″ E	2052620.9200	2022879.9099
S.C.	39+79.4255	N 36°31′03.27″ E	2052763.5883	2023053.8231
C.S.	47+68.0475	N 6°35′38.13″ E	2053050.0513	2023778.9818
S.T.	49+93.0475	N 2°19′30.72″ E	2053064.7557	2024003.4451
M.O.C.	43+73.7365		2052954.4314	2023397.5942
Rad Pt			2051550.0400	2023952.3778
Spiral PI In			2052718.9345	2022993.5157
Spiral PI Out			2053058.6682	2023853.5250

P.I. = 43+94.1325
Delta = 38°27′39.96″ Left
C = 3°47′39.92″
Ts = 639.7070
Ls = 225.0000
Lc = 788.6220
Theta = 4°16′07.41″
L.T. = 150.0436
S.T. = 75.0397
R = 1510.0000
Es = 90.7152

x = 224.8751
y = 5.5855
k = 112.4792
p = 1.3967

P.I.	56+17.3141		2053090.0829	2024627.1978
P.C.	55+18.0353	N 2°19′30.72″ E	2053086.0551	2024528.0007
P.T.	57+16.5884	N 1°22′37.84″ E	2053092.4690	2024726.4479
M.O.C.	56+17.3118		2053089.6725	2024627.2110
Rad Pt			2041095.9353	2025014.8557

P.I. = 56+17.3141
Delta = 0°56′52.88″ Left
C = 0°28′38.87″
T = 99.2788
L = 198.5531
R = 12000.0000
E = .4107

P.I.	67+15.5406		2053116.4778	2025725.1116
P.C.	64+96.7657	N 1°22′37.84″ E	2053111.2198	2025506.3999
P.T.	69+34.2457	N 1°07′45.83″ W	2053112.1657	2025943.8439
M.O.C.	67+15.5057		2053114.0850	2025725.1168
Rad Pt			2043114.1084	2025746.7397

P.I. = 67+15.5406
Delta = 2°30′23.67″ Left
C = 0°34′22.65″
T = 218.7749
L = 437.4800
R = 10000.0000
E = 2.3928

P.O.T.	69+89.4368	N 1°07′45.83″ W	2053111.0778	2025999.0244

Ramp A

P.O.T.	100+00.0000	N 52°34′53.22″ W	2054616.8899	2023062.1965
P.I.	101+34.6727		2054509.9304	2023144.0281
P.C.	100+00.0005	N 52°34′53.22″ W	2054616.8895	2023062.1968
P.T.	102+69.3327	N 53°55′05.15″ W	2054401.0916	2023223.3421
M.O.C.	101+34.6666		2054509.4604	2023143.3988
Rad Pt			2047601.7663	2013892.9509

P.I. = 101+34.6727
Delta = 1°20′11.93″ Left
C = 0°29′46.62″
T = 134.6722
L = 269.3322
R = 11545.0000
E = .7854

P.I.	107+75.5334		2053991.9924	2023521.4645
P.C.	105+83.4483	N 53°55′05.15″ W	2054147.2309	2023408.3377
P.T.	109+64.8587	N 37°06′28.59″ W	2053876.1039	2023674.6523
M.O.C.	107+74.1535		2054001.8830	2023531.5338
Rad Pt			2054912.8543	2024458.9664

P.I. = 107+75.5334
Delta = 16°48′36.56″ Right
C = 4°24′26.52″
T = 192.0850
L = 381.4103
R = 1300.0000
E = 14.1144

P.I.	116+56.7450		2053458.6761	2024226.4319
P.C.	114+70.8024	N 37°06′28.59″ W	2053570.8587	2024078.1426
P.T.	118+38.4884	N 58°10′29.27″ W	2053300.6880	2024324.4849
M.O.C.	116+54.6454		2053447.1274	2024213.7661
Rad Pt			2052773.3584	2023474.8241

P.I. = 116+56.7450
Delta = 21°04′00.69″ Left
C = 5°43′46.48″
T = 185.9426
L = 367.6860
R = 1000.0000
E = 17.1404

P.O.T.	120+94.3758	N 58°10′29.27″ W	2053083.2705	2024459.4219

US 25 & RAMP A
COORDINATE GEOMETRY

MicroStation v8.11.7.443 | E-SHEET NAME: R157OCC | USER: tstoggs DATE PLOTTED: September 11, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R157OCC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R158

Ramp B

P.O.T.	200+00.0000	N 52°45′29.28″ W	2053081.1202	2024406.4656
P.I.	210+59.2000		2052237.9039	2025047.4733
P.C.	207+05.5786	N 52°45′29.28″ W	2052519.4176	2024833.4683
P.T.	214+00.5392	N 26°38′51.96″ W	2052079.3032	2025363.5333
M.O.C.	210+53.0589		2052269.0345	2025073.3211
Rad Pt			2053442.3186	2026047.5024

P.I. = 210+59.2000
Delta = 26°06′37.32″ Right
C = 3°45′25.56″
T = 353.6214
L = 694.9606
R = 1525.0000
E = 40.4626

P.I.	215+32.5523		2052020.0947	2025481.5240
P.C.	214+00.5426	N 26°38′51.96″ W	2052079.3016	2025363.5363
P.T.	216+64.4524	N 22°36′09.66″ W	2051969.3583	2025603.3944
M.O.C.	215+32.4975		2052022.2130	2025482.4950
Rad Pt			2055420.3431	2027040.0904

P.I. = 215+32.5523
Delta = 4°02′42.29″ Right
C = 1°31′57.90″
T = 132.0097
L = 263.9098
R = 3738.1000
E = 2.3302

P.O.T.	216+87.5297	N 22°36′09.66″ W	2051960.4888	2025624.6992

Ramp B-1

P.O.T.	499+45.6266	S 9°43′51.98″ W	2053064.4596	2024693.3936	482
P.I.	501+57.6361		2053028.6248	2024484.4345	483
P.C.	500+00.0000	S 9°43′51.98″ W	2053055.2692	2024639.8025	484
P.T.	502+01.0972	N 55°02′55.45″ W	2052899.4200	2024574.7410	485
M.O.C.	501+00.5486		2052995.2323	2024564.4234	486
Rad Pt			2052956.7080	2024656.7049	487

P.I. = 501+57.6361
Delta = 115°13′12.57″ Right
C = 57°17′44.81″
T = 157.6361
L = 201.0971
R = 100.0000
E = 86.6792

P.O.T.	502+75.5994	N 55°02′55.45″ W	2052838.3550	2024617.4218	488

Ramp C

P.I.	302+35.6534		2025185.0974	2051949.9426
P.C.	297+44.2024	S 16°51′57″ E	2025655.4098	2051807.3580
P.T.	307+22.4372	S 30°32′10″ E	2024761.8063	2052199.6399
Rad Pt			2026844.9418	2055731.0060

P.I = 302+35.6534
Delta: = 13°40′14″ Left
C = S 23°42′03″ E
T = 491.451
L = 978.235
R = 4100.000
E = 29.349

P.I.	310+69.4660		2024462.9073	2052375.9589
P.C.	309+09.2123	S 30°32′10″ E	2024600.9353	2052294.5369
P.T.	307+22.4372	S 25°56′52″ E	2024761.8063	2052199.6399

P.I. = 310+69.4660
Delta = 4°35′19″ Right
C = 28°14′31″ E
T = 160.254
L = 320.336
R = 4000.000
E = 3.209

P.I.	316+92.2003		2023902.7943	2052648.5113
P.C.	314+85.0000	S 25°56′52″ E	2024089.1076	2052557.8508
P.T.	318+95.3544	S 45°32′26″ E	2023757.6706	2052796.4000
Rad Pt			2024614.1676	2053636.8837

P.I. = 316+92.2003
Delta = 19°35′35″ Left
C = 408.358
T = 207.200
L = 410.354
R = 1200.000
E = 17.757

P.O.T.	321+89.0042	2023551.9974	2053005.9918

Ramp C-1

P.O.T.	699+44.0060	S 43°15′00.18″ E	2052835.4049	2023719.3959
P.I.	701+53.6029		2052979.0173	2023566.7317
P.C.	700+00.0000	S 43°15′00.18″ E	2052873.7711	2023678.6115
P.T.	702+75.4745	S 19°53′02.62″ W	2052926.7742	2023422.2861
M.O.C.	701+37.7373		2052936.4993	2023557.9398
Rad Pt			2052691.6785	2023507.3156

P.I. = 701+53.6029
Delta = 63°08′02.80″ Right
C = 22°55′05.92″
T = 153.6029
L = 275.4745
R = 250.0000
E = 43.4176

P.I.	702+87.0483	S 20°54′49.94″ W	2052922.8378	2023411.4023

P.I. = 702+87.0483
Delta = 1°01′47.32″ Right

P.I.	703+11.4849	S 21°45′22.18″ W	2052914.1148	2023388.5756

P.I. = 703+11.4849
Delta = 0°50′32.24″ Right

P.I.	703+35.9317	S 22°42′18.58″ W	2052905.0534	2023365.8703

P.I. = 703+35.9317
Delta = 0°56′56.41″ Right

P.O.T.	703+60.3854	S 22°42′18.58″ W	2052895.6145	2023343.3116

RAMPS B & C
COORDINATE GEOMETRY

MicroStation v8.11.7.443 | E-SHEET NAME: R158000CC | USER: istaggs DATE PLOTTED: September 11, 2017 | FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R158000CC.DGN

Ramp D

P.O.T.	400+00.0000	S 81°53′28.91″ E	2053017.4406	2023596.2383
P.I.	406+79.8673		2053690.5109	2023500.3427
P.C.	404+29.3247	S 81°53′28.91″ E	2053442.4731	2023535.6818
P.T.	409+23.3136	S 58°18′18.48″ E	2053903.6871	2023368.7088
M.O.C.	406+76.3192		2053681.7025	2023476.0122
Rad Pt			2053273.2126	2022347.6790

P.I. = 406+79.8673
Delta = 23°35′10.43″ Right
C = 4°46′28.73″
T = 250.5426
L = 493.9889
R = 1200.0000
E = 25.8758

P.O.T.	412+38.8313	S 58°18′18.48″ E	2054172.1479	2023202.9372

Ramp D-1

P.O.T.	599+68.5112	N 25°16′14.47″ E	2052986.8513	2023385.4101
P.I.	601+62.6904		2053069.7455	2023561.0066
P.C.	600+00.0000	N 25°16′14.47″ E	2053000.2937	2023413.8855
P.T.	602+83.1952	S 84°10′55.13″ E	2053231.5979	2023544.5148
M.O.C.	601+41.5976		2053095.1806	2023515.9690
Rad Pt			2053208.2830	2023315.6996

P.I. = 601+62.6904
Delta = 70°32′50.40″ Right
C = 24°54′40.35″
T = 162.6904
L = 283.1951
R = 230.0000
E = 51.7236

P.O.T.	603+81.6009	S 84°10′55.13″ E	2053329.4967	2023534.5395

Frontage Road

P.O.T.	29+80.7133	N 7°00′58.01″ W	2052796.6741	2023465.8639
P.I.	30+74.1741		2052785.2580	2023558.6249
P.C.	30+00.0000	N 7°00′58.01″ W	2052794.3183	2023485.0062
P.T.	31+41.2984	N 50°04′43.97″ W	2052728.3717	2023606.2249
M.O.C.	30+70.6492		2052772.8692	2023551.8850
Rad Pt			2052607.7260	2023462.0423

P.I. = 30+74.1741
Delta = 43°03′45.96″ Left
C = 30°28′35.32″
T = 74.1742
L = 141.2984
R = 188.0000
E = 14.1035

P.I.	34+07.9953		2052523.8342	2023777.3729
P.C.	33+19.4648	N 50°04′43.97″ W	2052591.7308	2023720.5600
P.T.	34+93.7168	N 25°07′08.85″ W	2052486.2529	2023857.5308
M.O.C.	34+06.5908		2052531.5036	2023783.2789
Rad Pt			2052848.4237	2024027.3315

P.I. = 34+07.9953
Delta = 24°57′35.12″ Right
C = 14°19′26.20″
T = 88.5305
L = 174.2520
R = 400.0000
E = 9.6799

P.I.	40+91.6309		2052232.4373	2024398.8985
P.C.	39+95.0959	N 25°07′08.85″ W	2052273.4166	2024311.4931
P.T.	41+80.7747	N 63°48′17.88″ W	2052145.8168	2024441.5117
M.O.C.	40+87.9353		2052220.6956	2024387.3752
Rad Pt			2052024.4241	2024194.7552

P.I. = 40+91.6309
Delta = 38°41′09.03″ Left
C = 20°50′05.38″
T = 96.5350
L = 185.6787
R = 275.0000
E = 16.4515

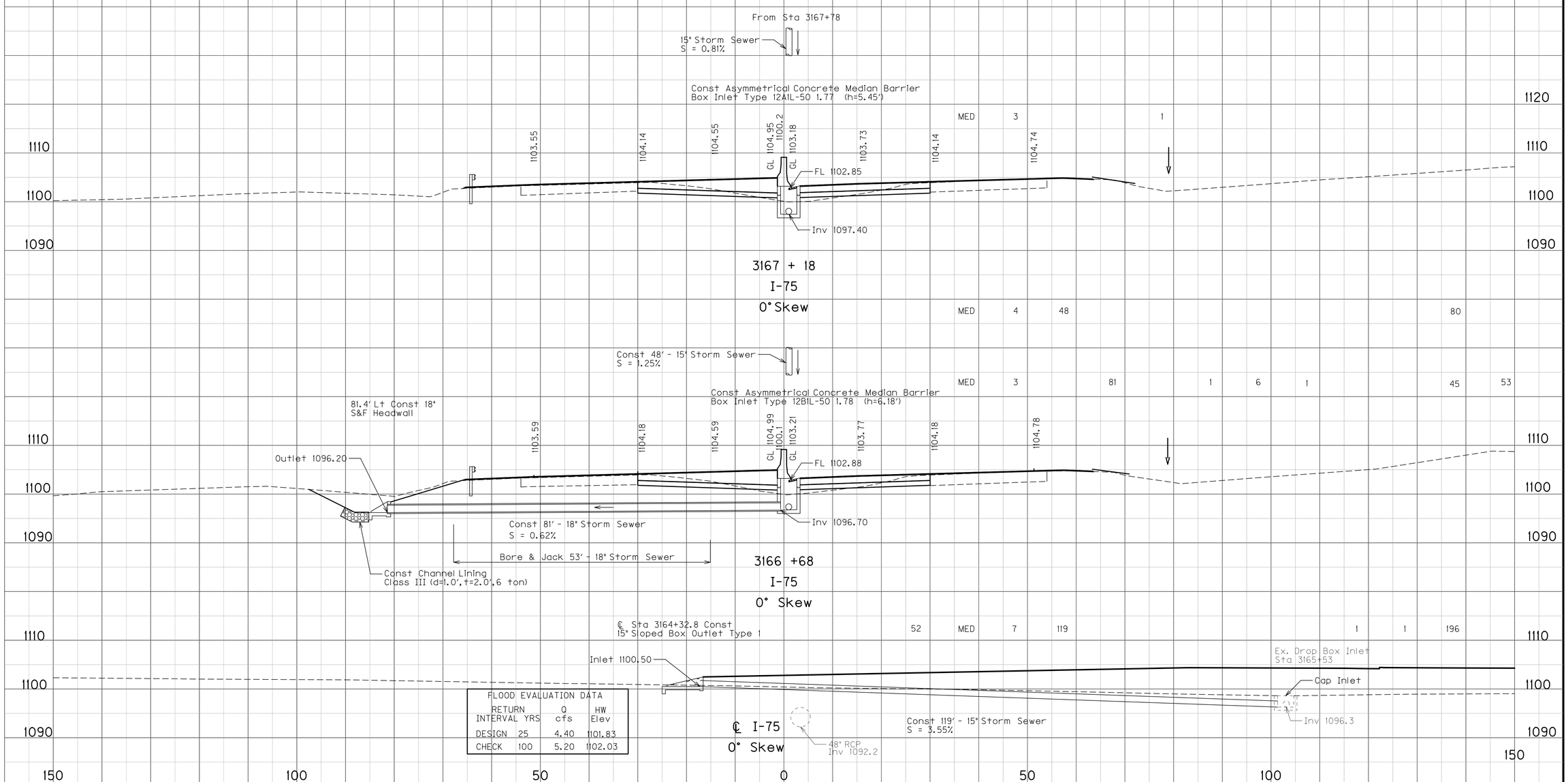
P.O.T.	42+27.9331	N 63°48′17.88″ W	2052103.5017	2024462.3288

RAMP D & FRONTAGE ROAD
COORDINATE GEOMETRY

FILE NAME: P:\CIVIL\ROCK75\8-6.20\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\R159OOCC.DGN
USER: lstaggs
DATE PLOTTED: September 11, 2017
E-SHEET NAME: R159OOCC
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R160

	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	ASYMM CON MED BAR BOX INLET TY 12A1L-50 EACH	ASYMM CON MED BAR BOX INLET TY 12B1L-50 EACH	CHANNEL LINING CLASS III TON	18" S & F HDWL EACH	15" SLOPED BOX OUT TY 1 EACH	CAP INLET EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	BORE & JACK PIPE 18 INCH LIN FT
3167 + 18 I-75 0° Skew		MED	3			1							
		MED	4	48								80	
3166 +68 I-75 0° Skew		MED	3		81		1	6	1			45	53
℄ Sta 3164+32.8 Const 15" Sloped Box Outlet Type 1	52	MED	7	119						1	1	196	



FLOOD EVALUATION DATA

	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	25	4.40	1101.83
CHECK	100	5.20	1102.03

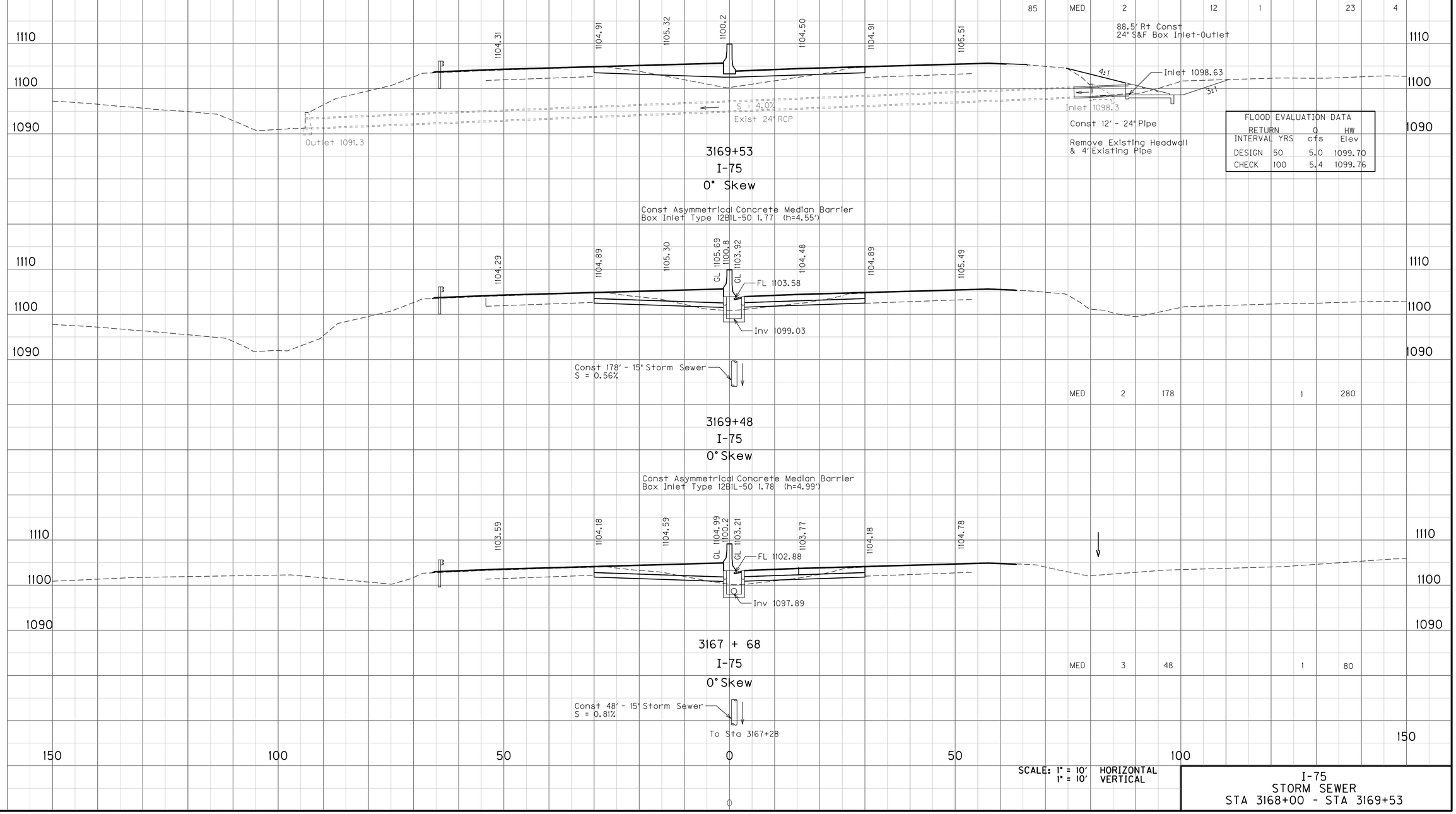
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 316+32.8 - STA 3167+18

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_08SHEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R161

	CIPP LINER 24 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	24 INCH PIPE CULVERT LIN FT	24 INCH S&F BOX IN-OUT EACH	ASYMM CON MED BAR BOX INLET TY 12BIL-50 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXE CU YD
	85	MED	2		12	1		23	4
		MED	2	178			1	280	
		MED	3	48			1	80	



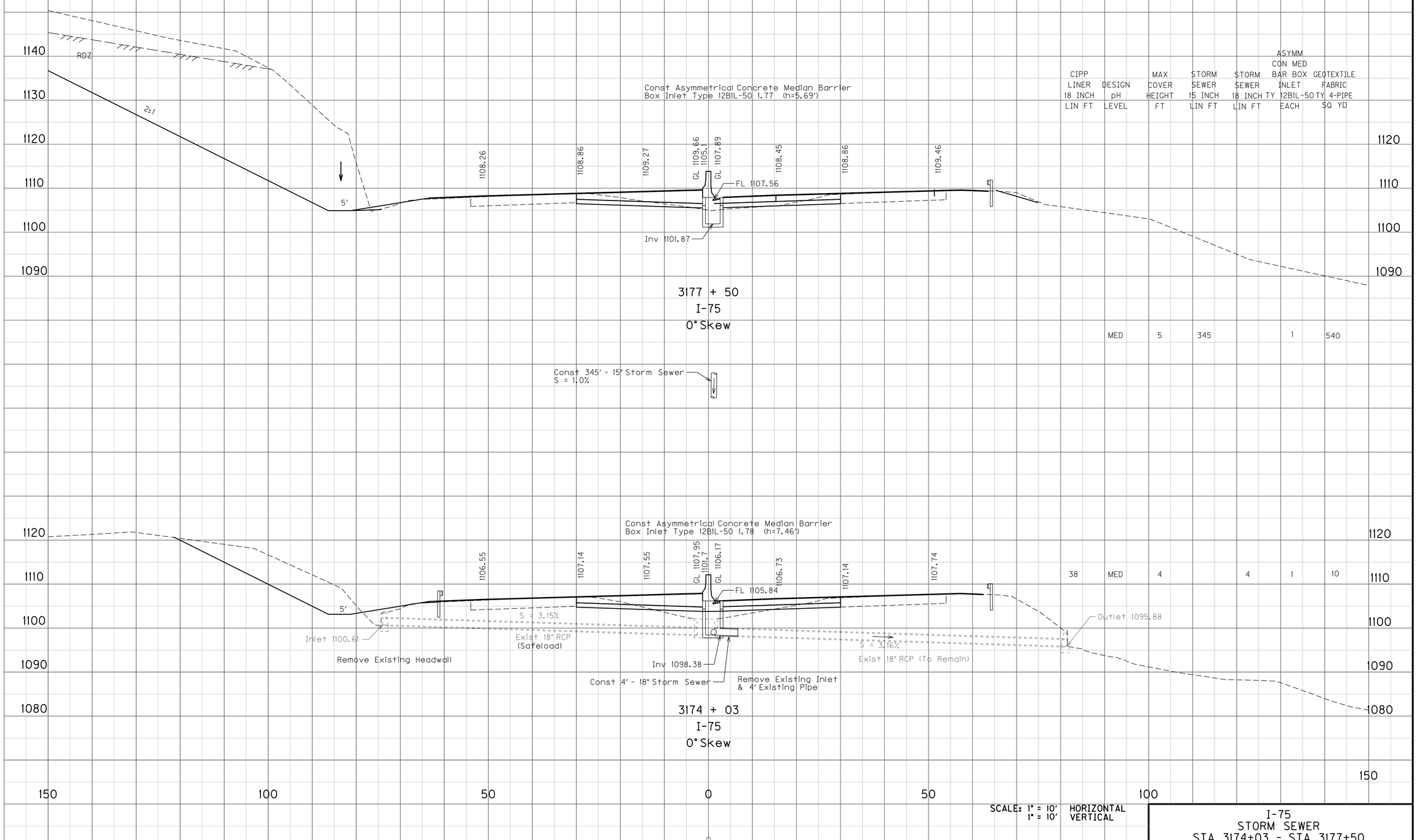
FLOOD EVALUATION DATA			
	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	50	5.0	1099.70
CHECK	100	5.4	1099.76

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3168+00 - STA 3169+53

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: tsharpenren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R162



CIPP LINER 18 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	ASYMM CON MED BAR BOX INLET TY 12BIL-50 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
	MED	5	345		1	540
38	MED	4		4	1	10

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

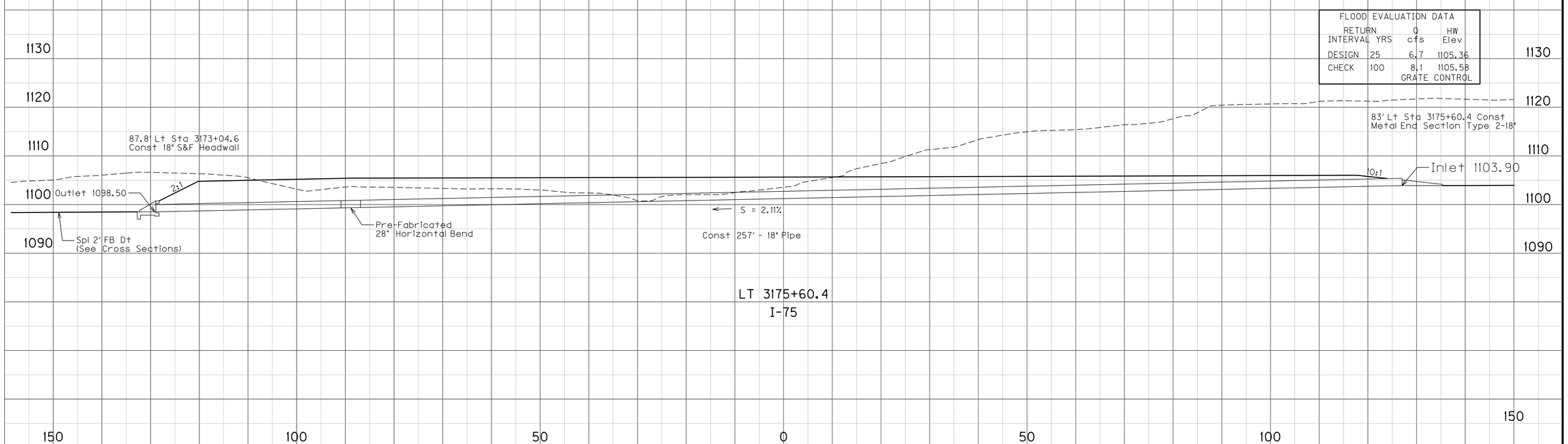
I-75
STORM SEWER
STA 3174+03 - STA 3177+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsvangerhren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R163

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 18 INCH LIN FT	METAL END SECTION TY 2-18 IN EACH	18" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	4	257	1	1	444

FLOOD EVALUATION DATA			
	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	25	6.7	1105.36
CHECK	100	8.1	1105.58
		GRATE CONTROL	



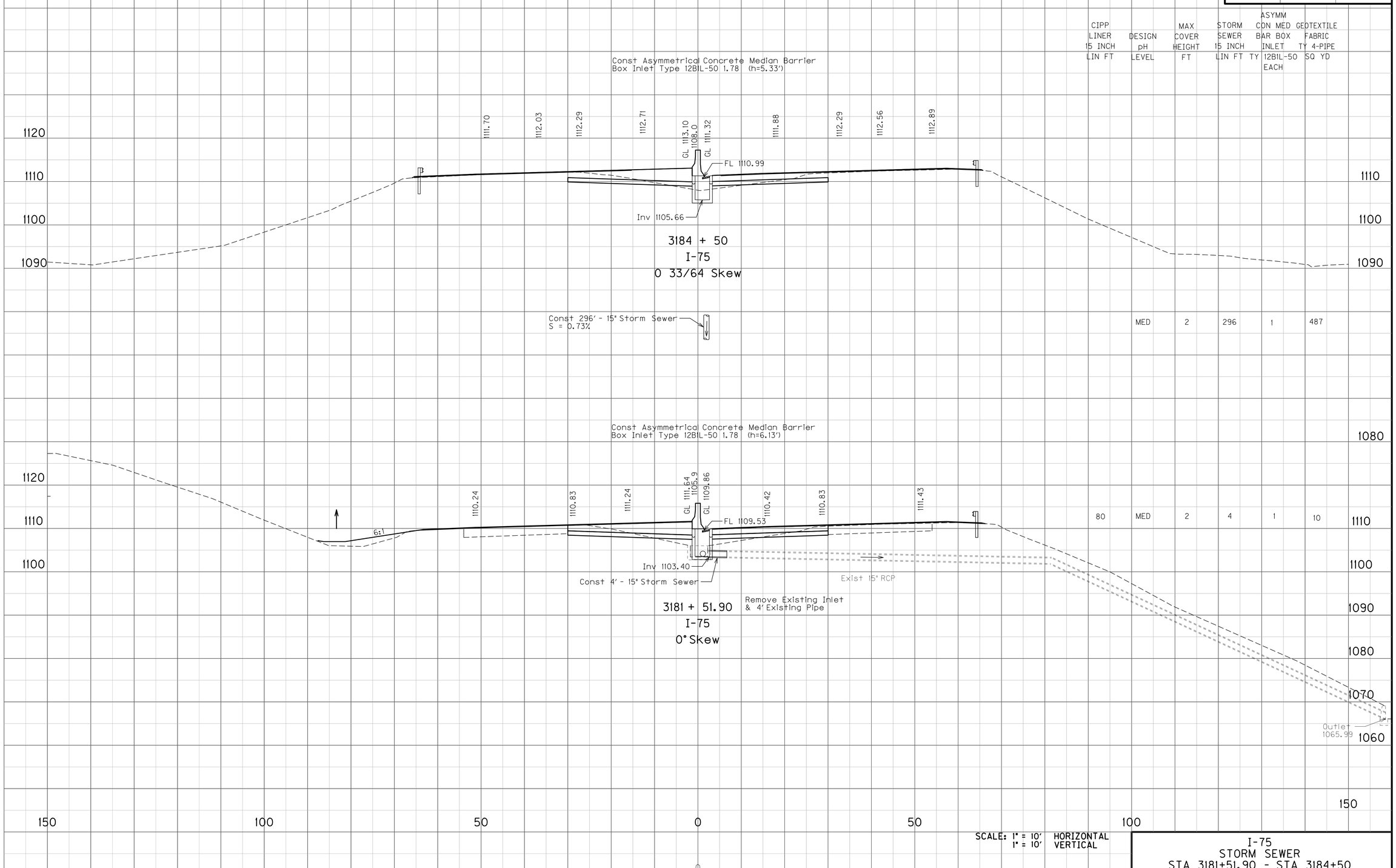
LT 3175+60.4
I-75

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3175+60.4

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNCET.DGN
USER: tsvangbrien
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R164



	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	TY	ASYMM CON MED BAR BOX INLET 12BIL-50 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
		MED	2	296		1	487
	80	MED	2	4		1	10

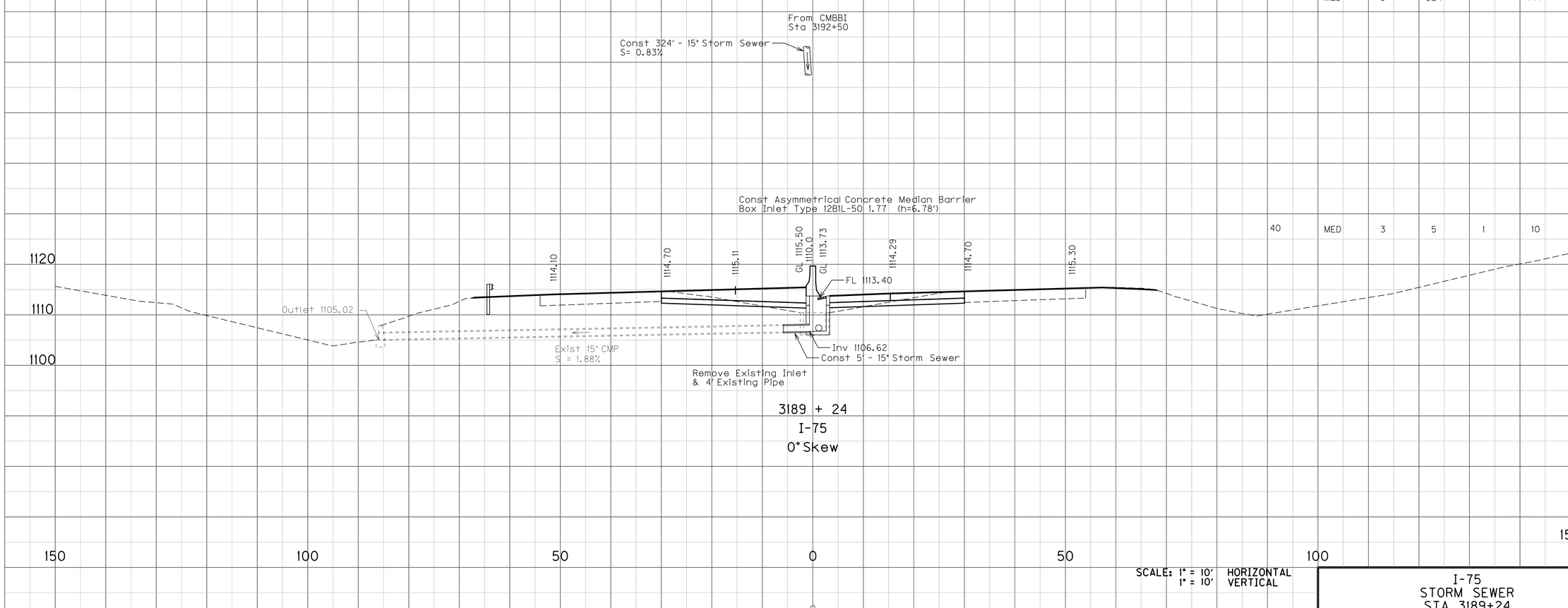
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3181+51.90 - STA 3184+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R165

	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	TY	ASYMM CON MED BAR BOX INLET 12B1L-50 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
		MED	3	324			535
	40	MED	3	5	1		10



3189 + 24
I-75
0° Skew

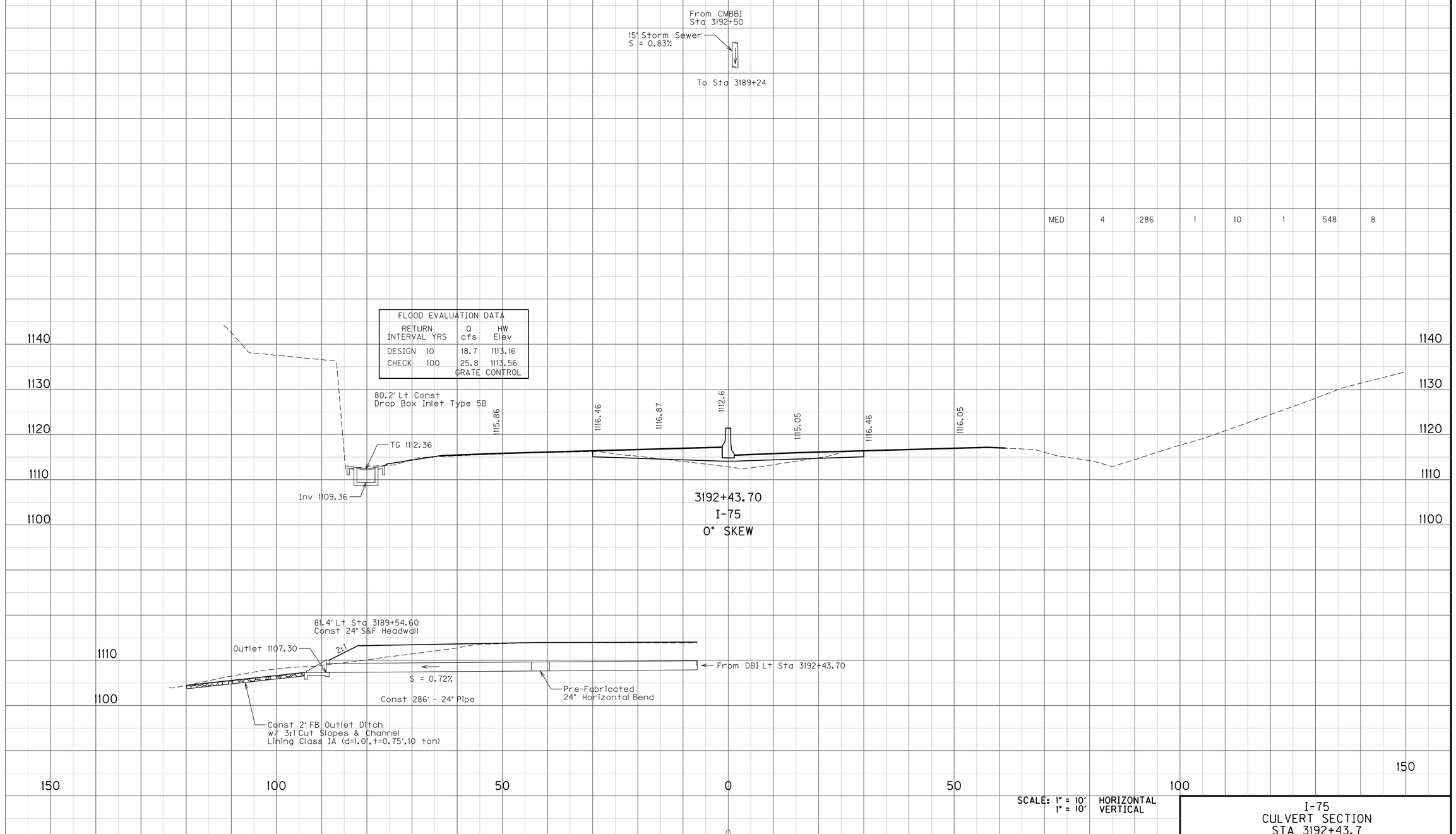
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3189+24

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: hskaggs
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R166

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 24 INCH LIN FT	DROP BOX INLET TYPE 5B EACH	CHANNEL LINING CLASS IA TON	24" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
MED	4	286	1	10	1	548	8

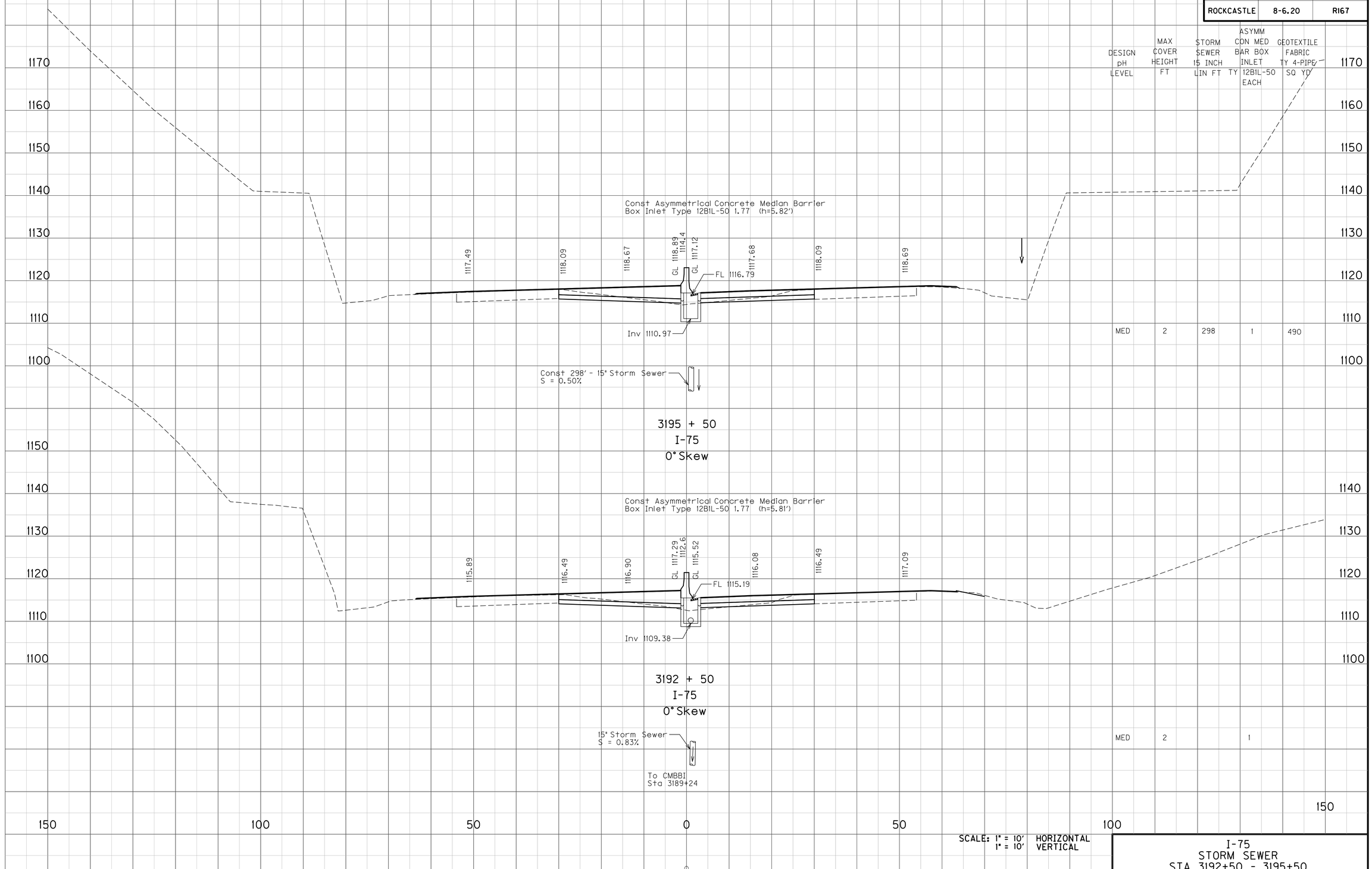


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3192+43.7

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R167



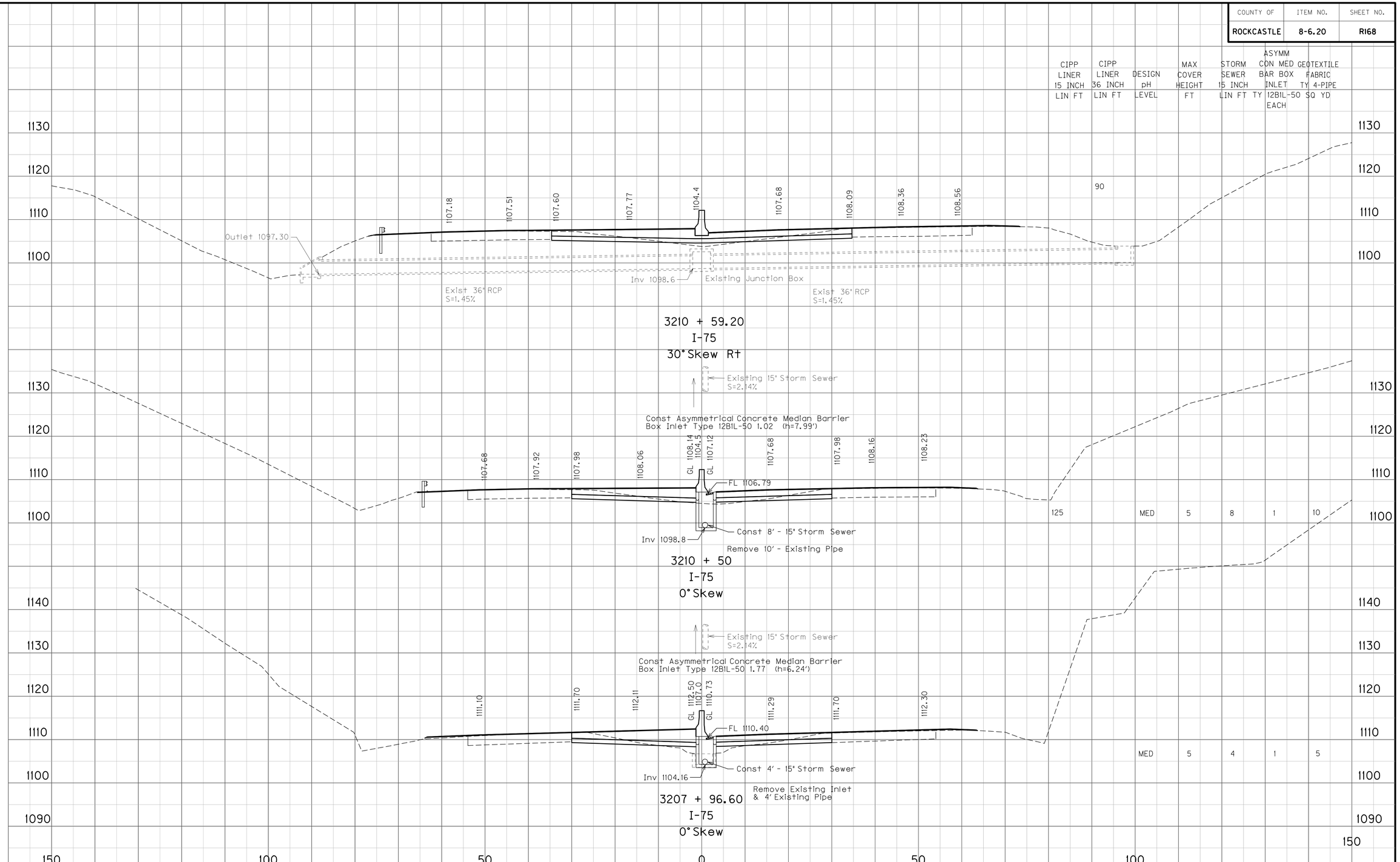
DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	ASYMM CON MED BAR BOX INLET TY 12BIL-50 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2	298	1	490
MED	2		1	

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3192+50 - 3195+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R168



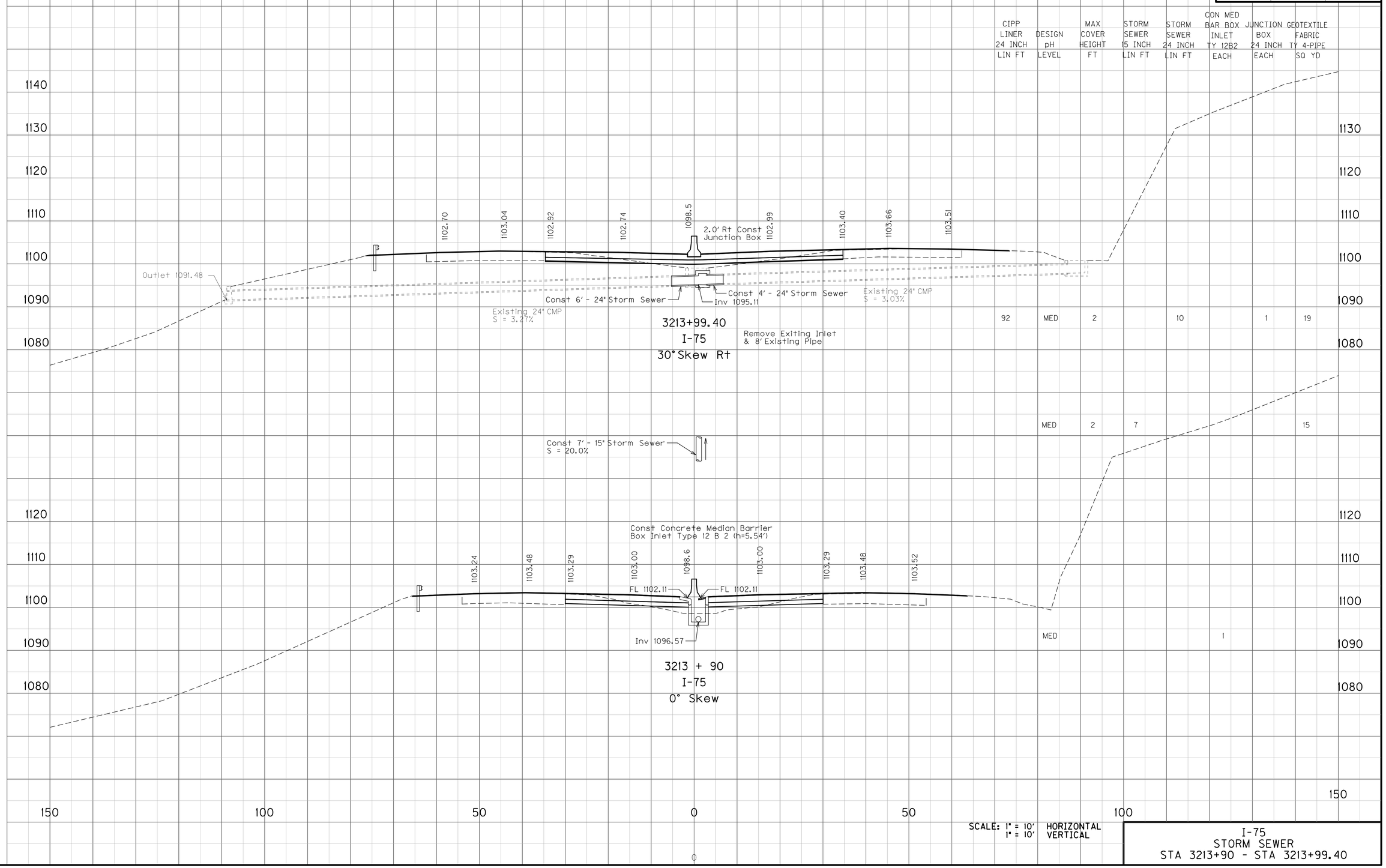
CIPP LINER 15 INCH LIN FT	CIPP LINER 36 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	TY	ASYMM CON MED BAR BOX INLET 12BIL-50 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
	90						
125		MED	5	8	1	10	
		MED	5	4	1	5	

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3207+96.60 - STA 3210+59.20

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGN
USER: hsvangsren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R169



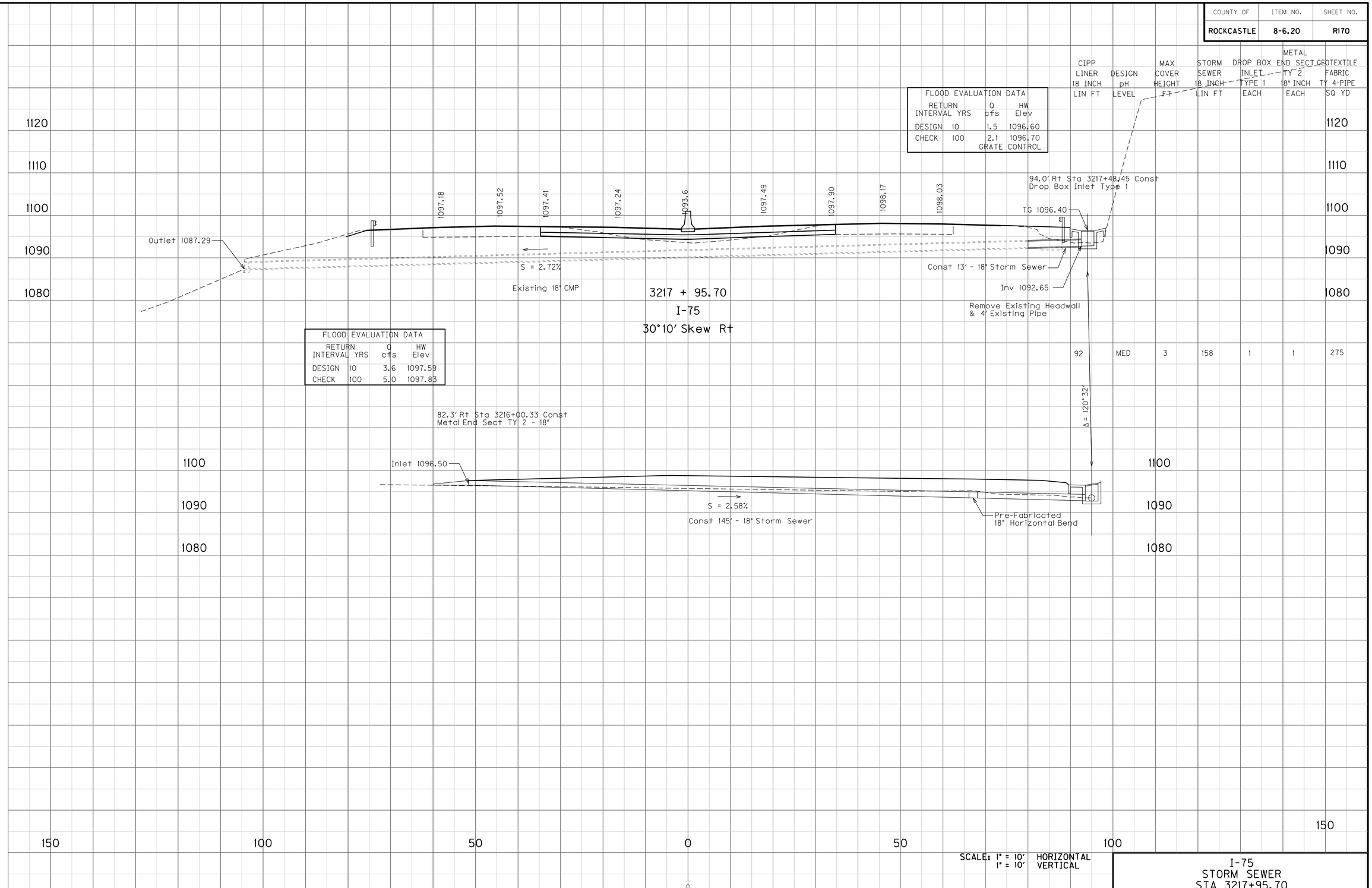
	CIPP LINER 24 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 24 INCH LIN FT	CON MED BAR BOX INLET TY 12B2 EACH	JUNCTION BOX 24 INCH EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
	92	MED	2		10		1	19
		MED	2	7				15
		MED				1		

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3213+90 - STA 3213+99.40

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R170



FLOOD EVALUATION DATA

RETURN INTERVAL YRS		Q cfs	HW Elev
DESIGN	10	1.5	1096.60
CHECK	100	2.1	1096.70
		GRATE CONTROL	

FLOOD EVALUATION DATA

RETURN INTERVAL YRS		Q cfs	HW Elev
DESIGN	10	3.6	1097.59
CHECK	100	5.0	1097.83

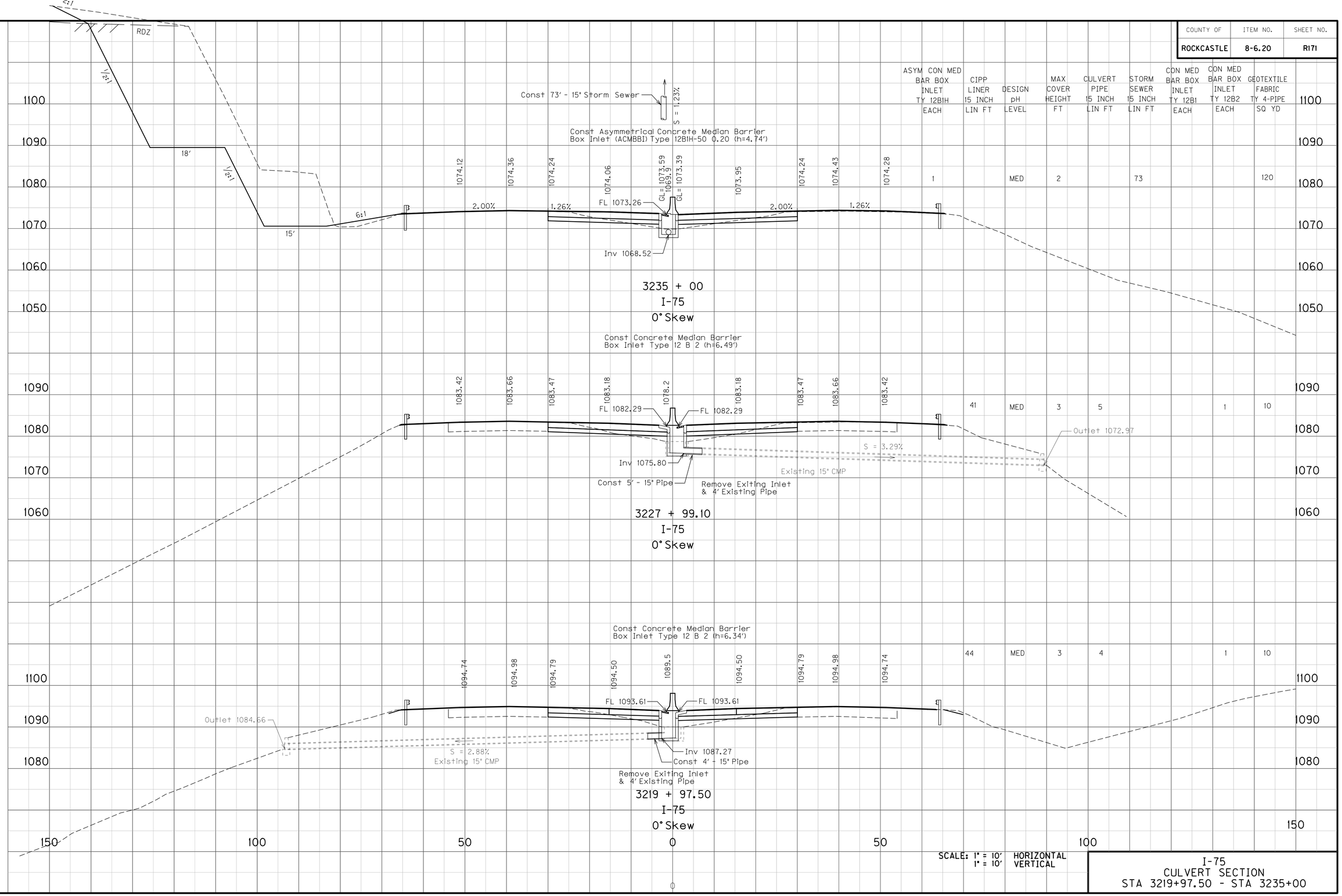
CIPP LINER 18 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 18 INCH LIN FT	DROP BOX INLET TYPE 1 EACH	METAL END SECT TY 2 18" INCH EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
92	MED	3	158	1	1	275

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3217+95.70

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R171



	ASYM CON MED BAR BOX INLET TY 12B1H EACH	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 15 INCH LIN FT	STORM SEWER 15 INCH LIN FT	CON MED BAR BOX INLET TY 12B1 EACH	CON MED BAR BOX INLET TY 12B2 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
3235 + 00	1		MED	2		73			120
3227 + 99.10		41	MED	3	5			1	10
3219 + 97.50		44	MED	3	4			1	10

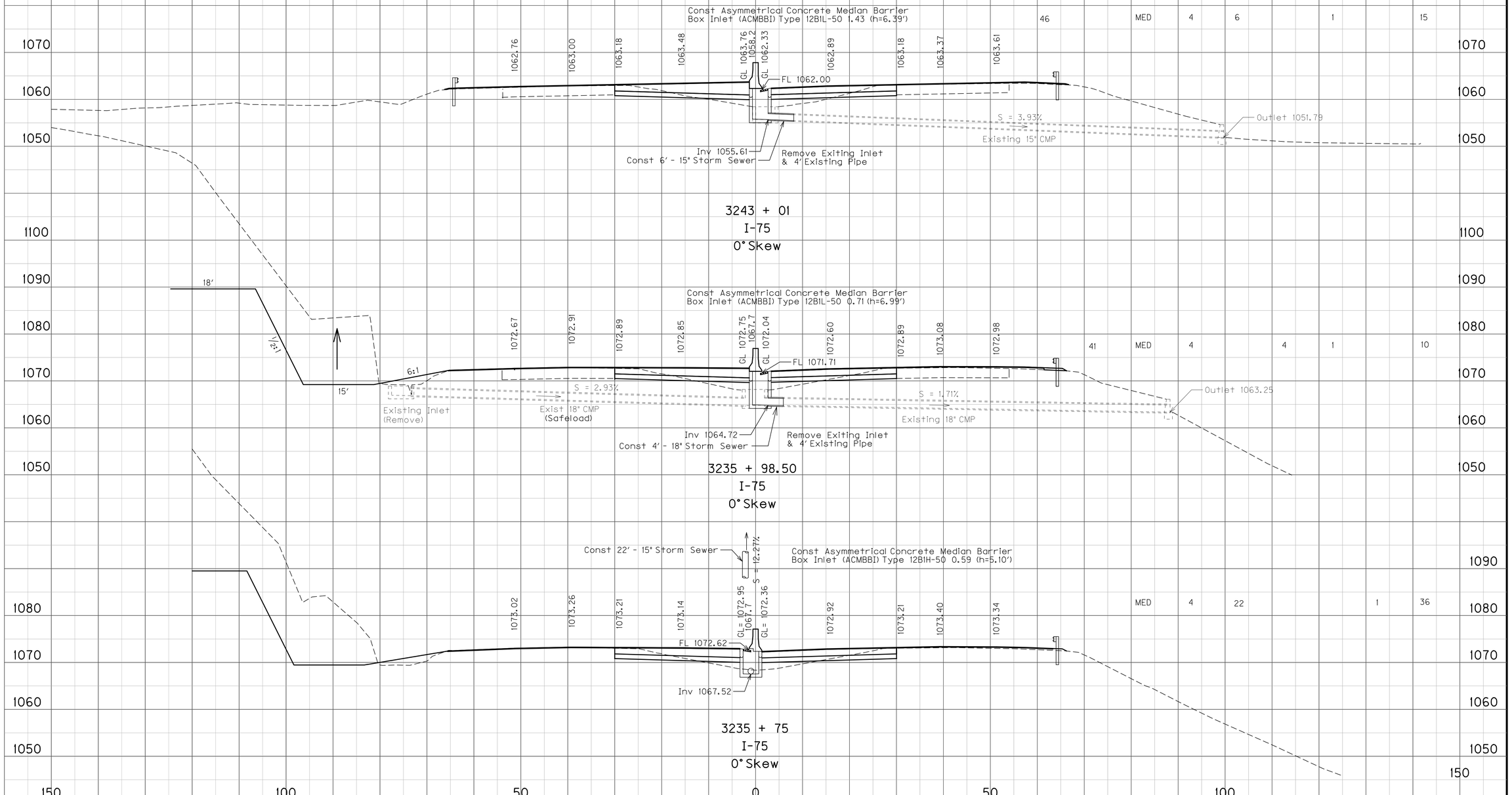
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3219+97.50 - STA 3235+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsvarpenen
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R172

	CIPP LINER 15 INCH LIN FT	CIPP LINER 18 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	ASSY CON MED BAR BOX INLET TY 12BIH EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12BIL-50 1.43 (h=6.39')	46		MED	4	6		1		15
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12BIL-50 0.71 (h=6.99')		41	MED	4		4	1		10
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12BIH-50 0.59 (h=5.10')			MED	4	22			1	36



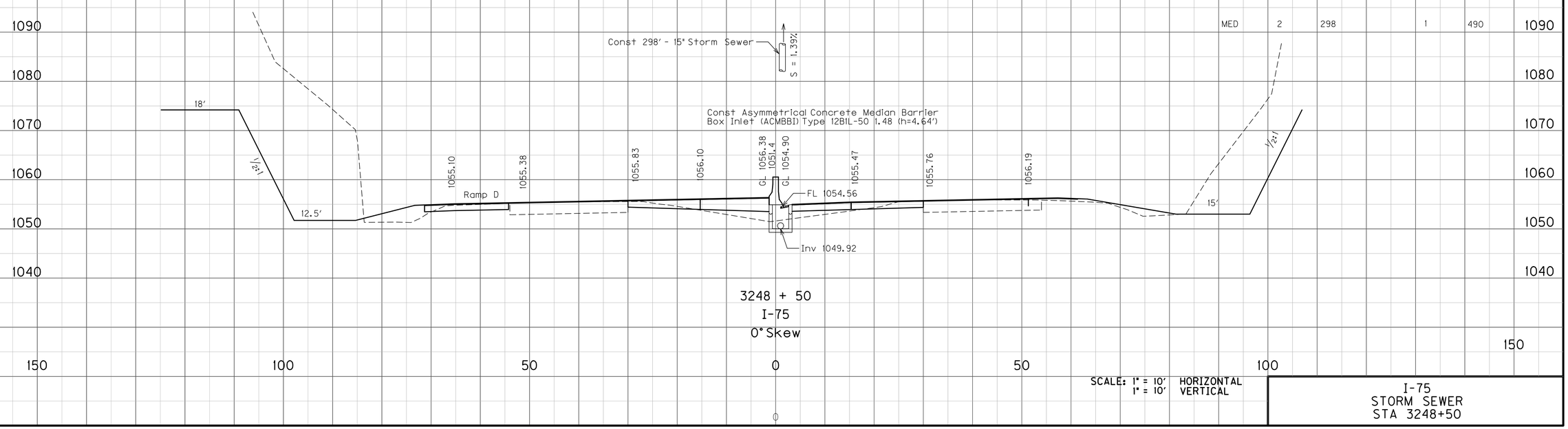
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3235+75 - STA 3243+01

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: hskrapenren
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R173

DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	15 INCH SLOPED BOX OUTLET TYPE I EACH	ASSY CON MED BAR BOX INLET TY 12BIL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2	298	1	490	

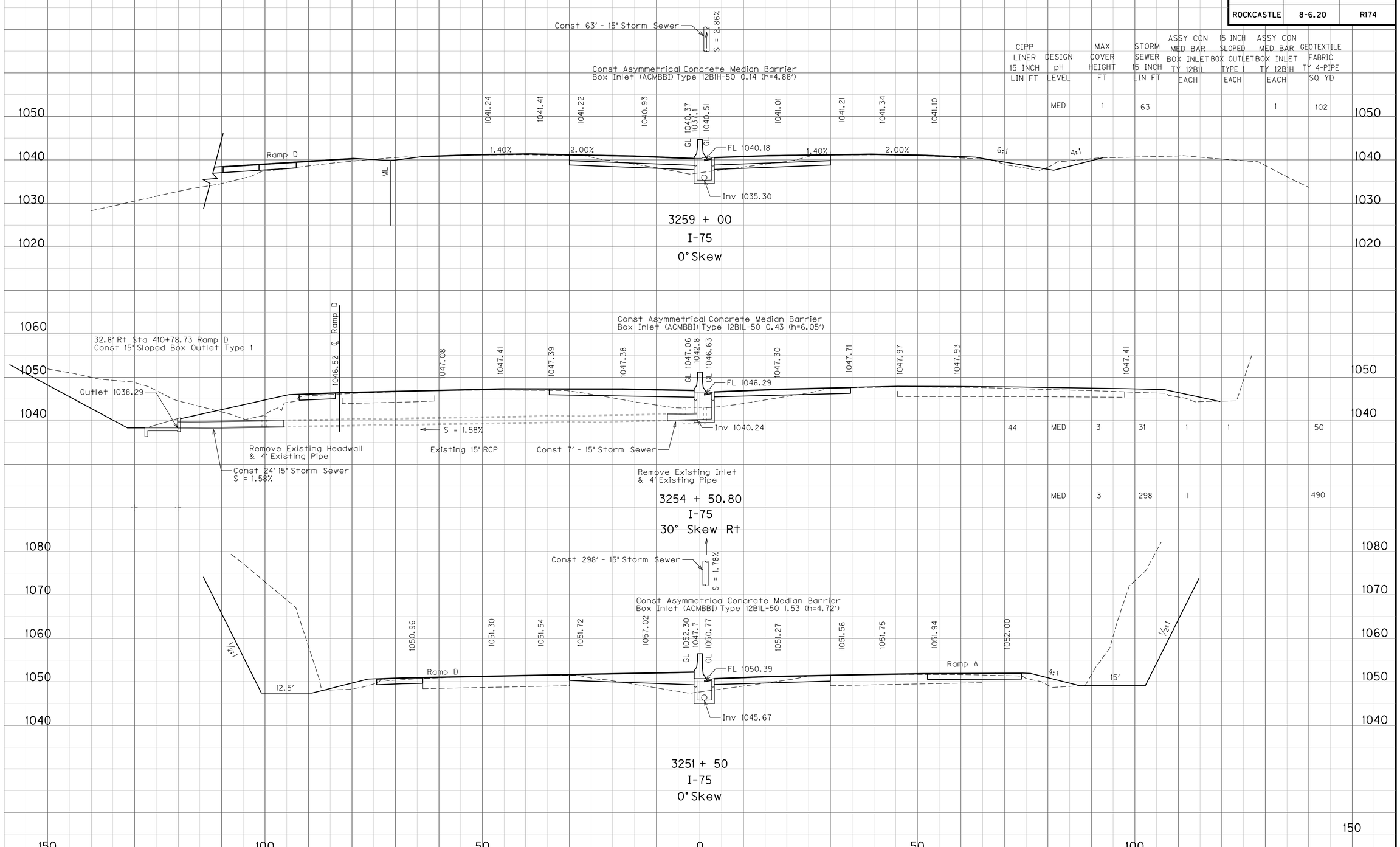


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3248+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNCET.DGN
USER: tsvangerhren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R174



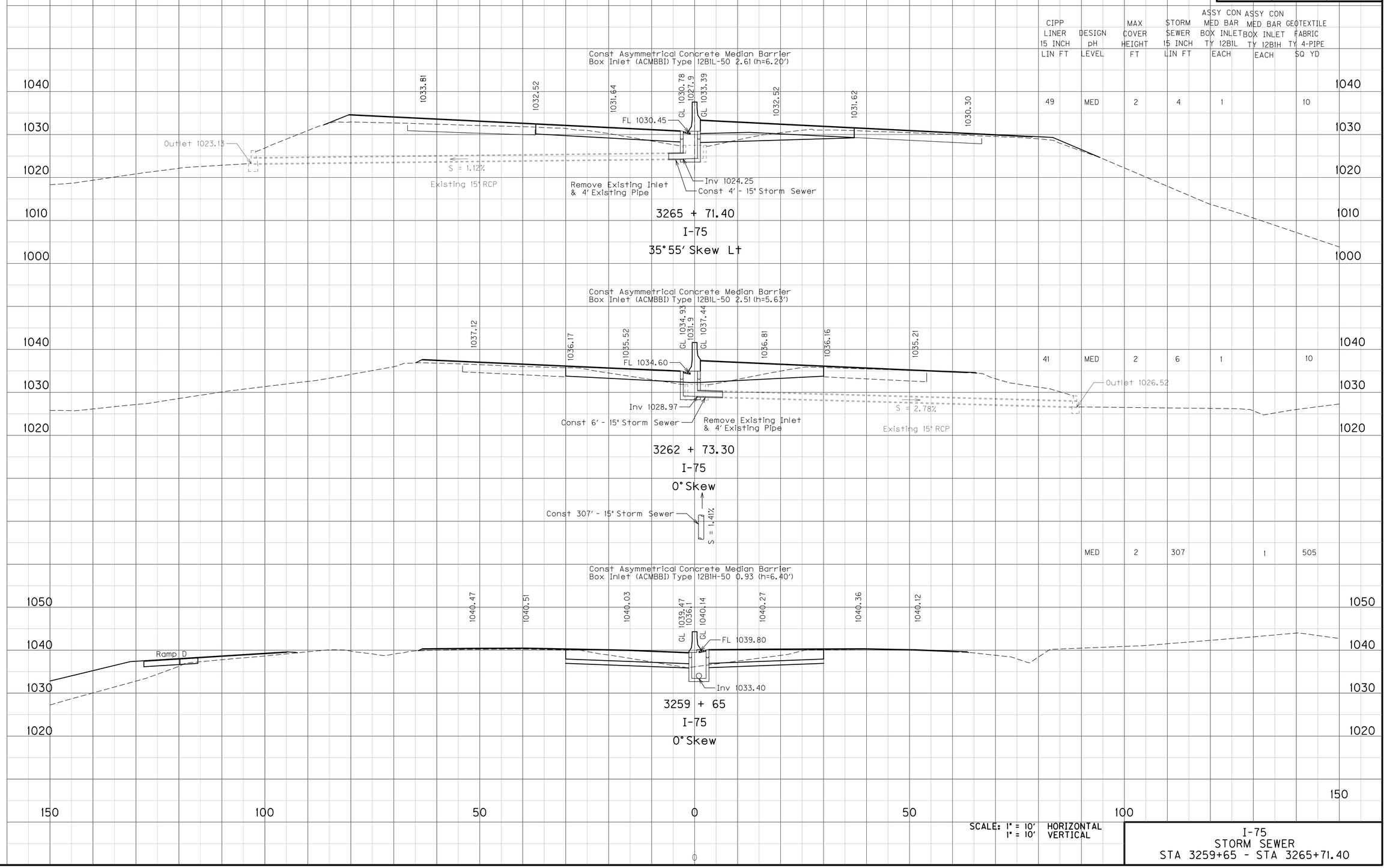
	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	15 INCH SLOPED BOX OUTLET TYPE 1 EACH	ASSY CON MED BAR BOX INLET TY 12BIH EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
		MED	1	63			1	102
	44	MED	3	31	1	1		50
		MED	3	298	1			490

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3251+50 - STA 3259+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: hskaggs
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R175



	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	ASSY CON MED BAR BOX INLET TY 12BIH EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
	49	MED	2	4	1		10
	41	MED	2	6	1		10
		MED	2	307		1	505

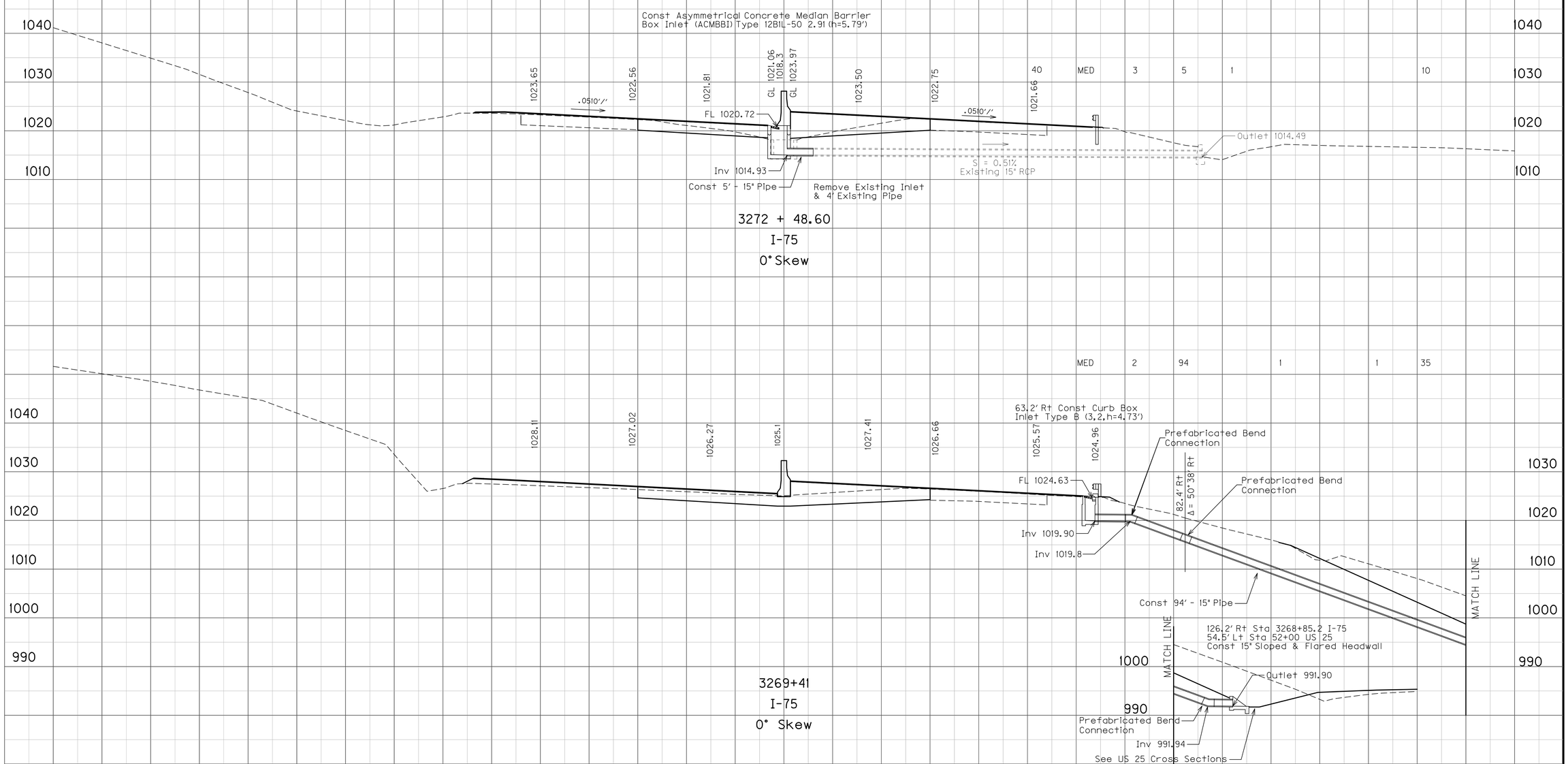
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3259+65 - STA 3265+71.40

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGN
USER: tsharpenren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R176

	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	CURB BOX INLET TYPE B EACH	CHANNEL LINING CLASS III TON	15" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
3272 + 48.60 I-75 0° Skew	40	MED	3	5	1				10	
3269+41 I-75 0° Skew		MED	2	94		1		1	35	

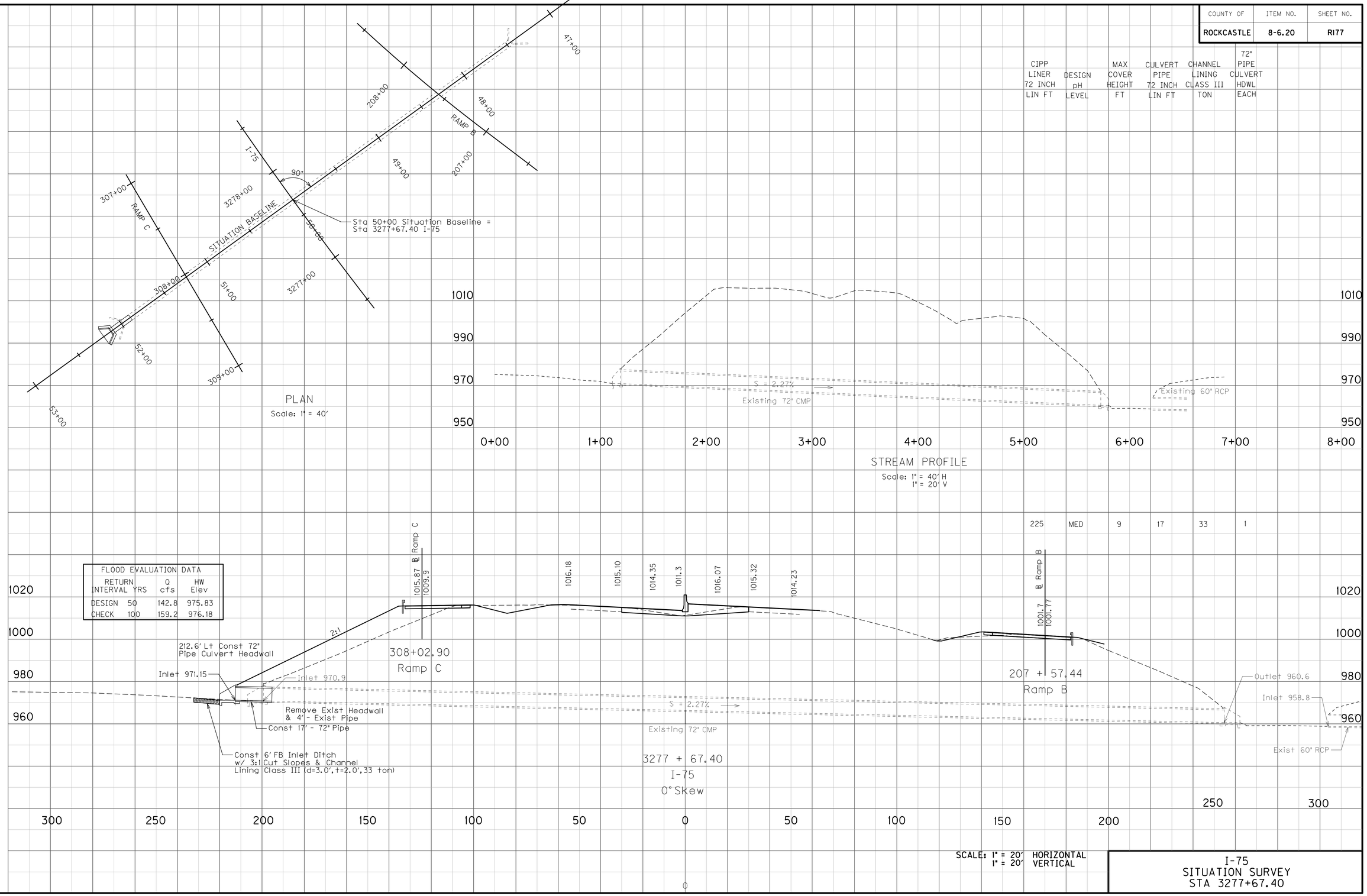


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3269+41 - STA 3272+48.60

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R177

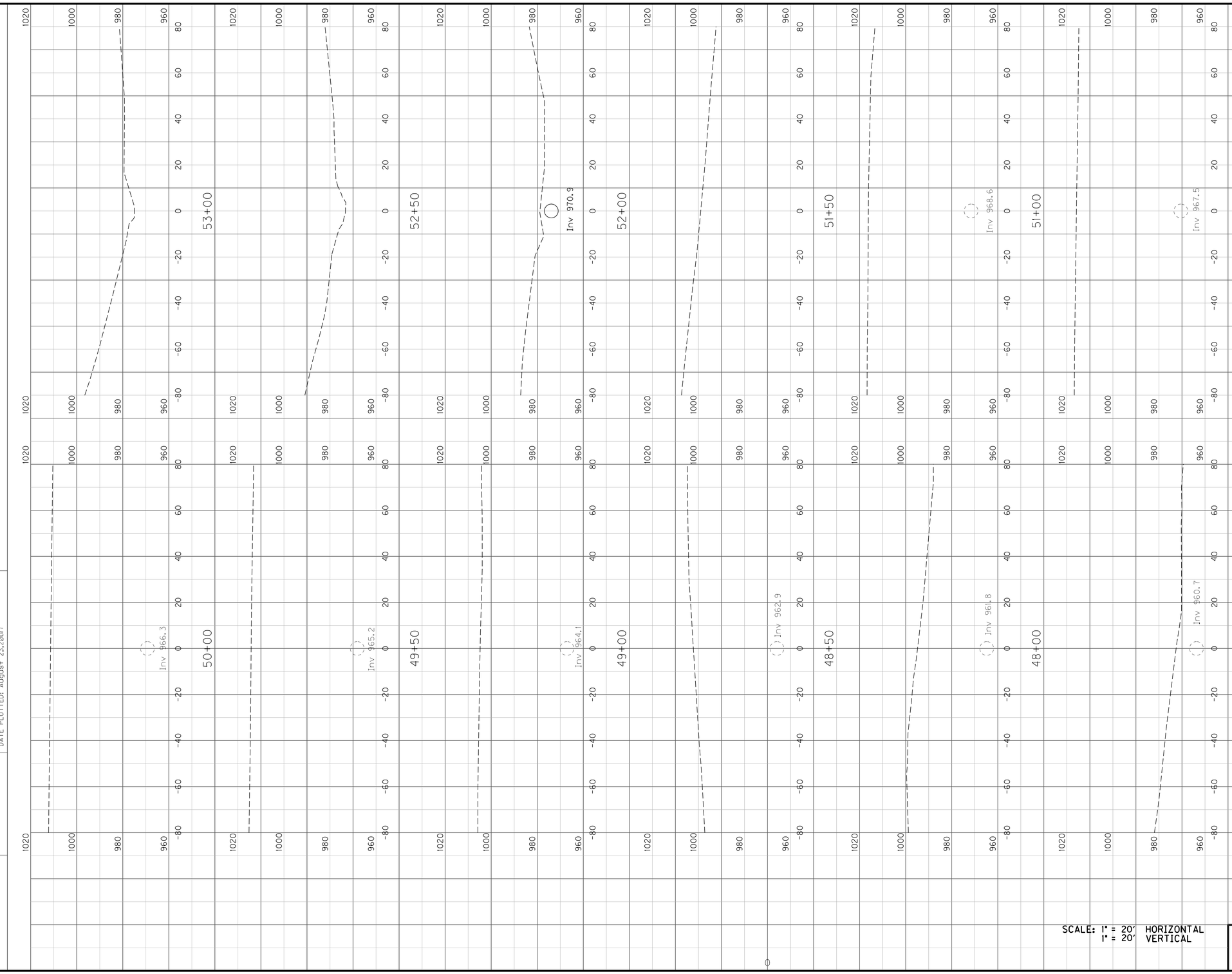


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

I-75
SITUATION SURVEY
STA 3277+67.40

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNCEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R178



CHANNEL SECTIONS
Scale: 1" = 20'

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

I-75
SITUATION SURVEY
STA 3277+67.40

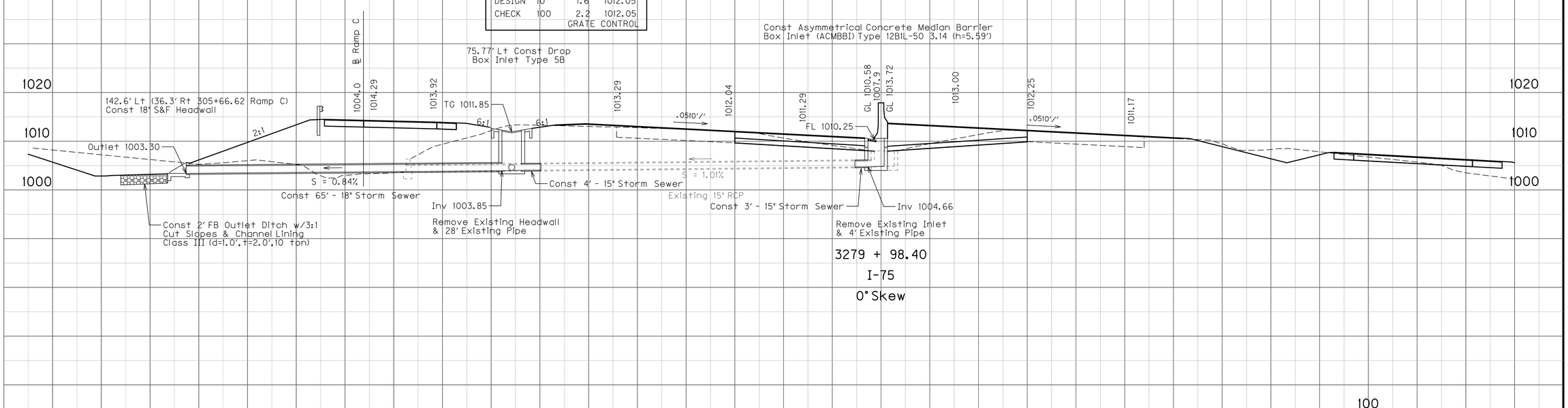
MicroStation v8.11.7.443 | E-SHEET NAME: | USER: kvangunren DATE PLOTTED: August 23,2007 | FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R179

	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	DROP BOX INLET TYPE 5B EACH	ASSY CON MED BAR BOX INLET TY 12BIL EACH	CHANNEL LINING CLASS III TON	18" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
	32	MED	9	7	65	1	1	10	1	120	5

FLOOD EVALUATION DATA

RETURN INTERVAL	YRS	Q cfs	HW Elev
DESIGN	10	1.6	1012.05
CHECK	100	2.2	1012.05
		GRATE CONTROL	



3279 + 98.40

I-75

0° Skew

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3279+98.40

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN

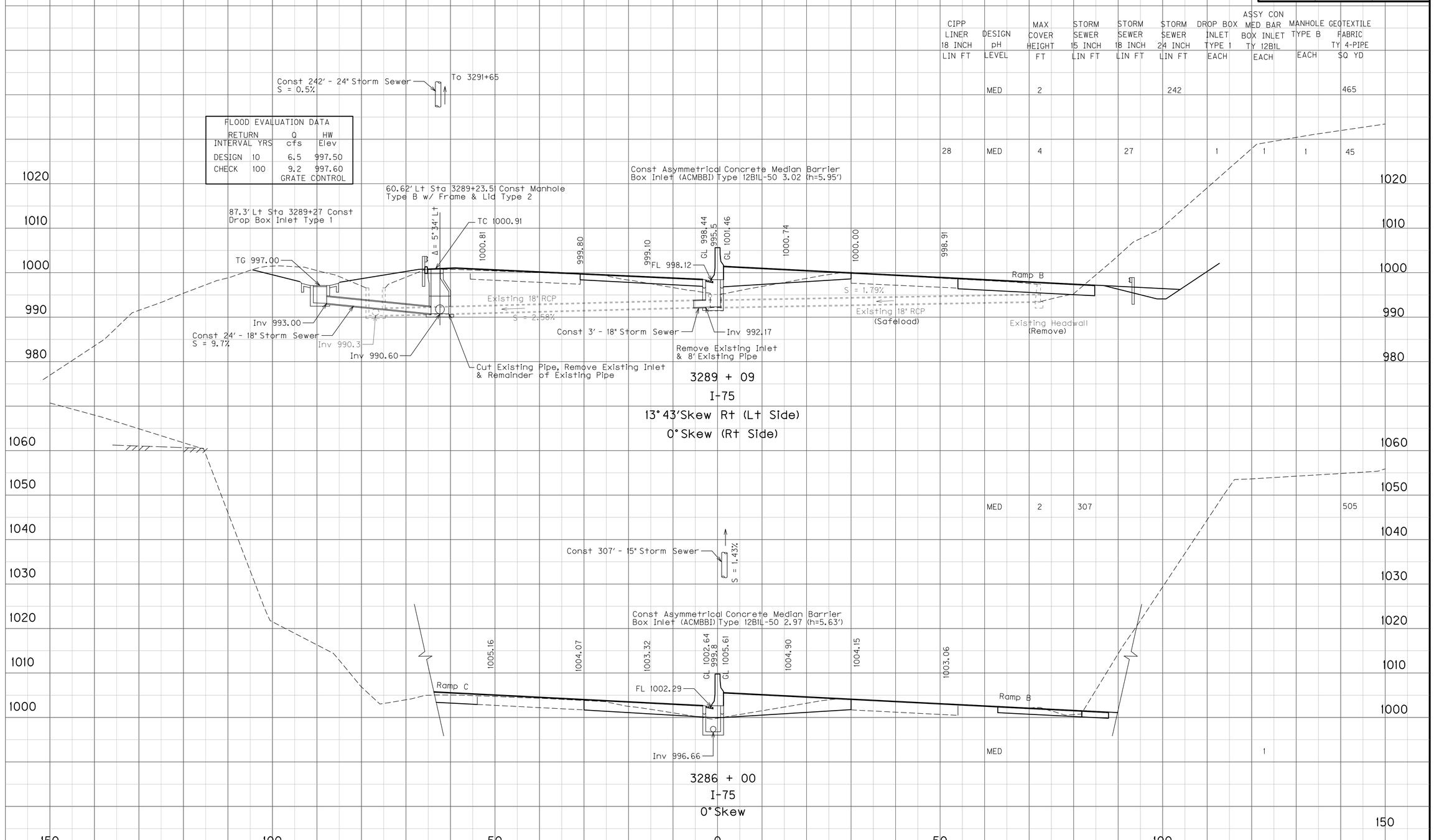
USER: tsvangerhren
DATE PLOTTED: August 23,2007

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R180

	CIPP LINER 18 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	STORM SEWER 24 INCH LIN FT	DROP BOX INLET TYPE 1 EACH	ASSY CON MED BAR BOX INLET TY 12BIL EACH	MANHOLE TYPE B EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
		MED	2			242				465
	28	MED	4		27		1	1	1	45
		MED	2	307						505
		MED						1		



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3286+00 - STA 3289+09

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: hskrapper
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

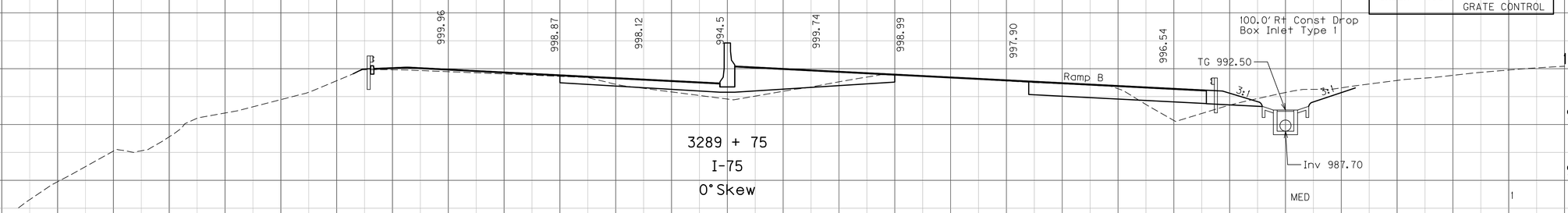
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R181

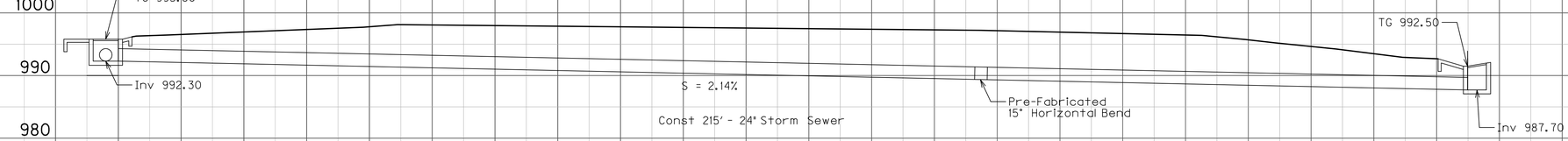
	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 24 INCH LIN FT	DROP BOX INLET TYPE 1 EACH	DROP BOX INLET TYPE 5D EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
To 3291+65						
Const 183' - 24" Storm Sewer S = 1.42%	MED	2	183			350
	MED	2	215			413
	MED				1	
	MED				1	

FLOOD EVALUATION DATA

	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	10	3.0	992.80
CHECK	100	3.9	992.90

GRATE CONTROL

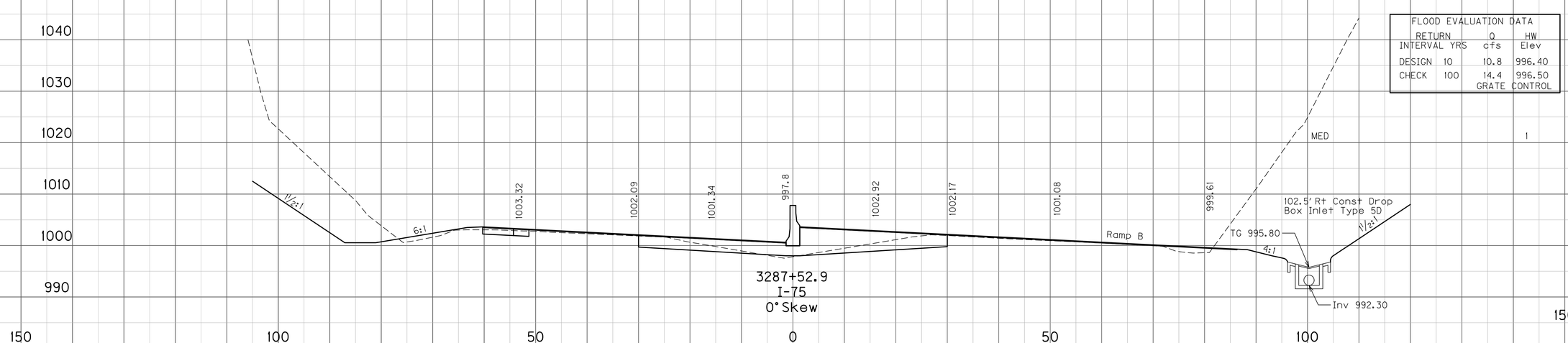




FLOOD EVALUATION DATA

	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	10	10.8	996.40
CHECK	100	14.4	996.50

GRATE CONTROL

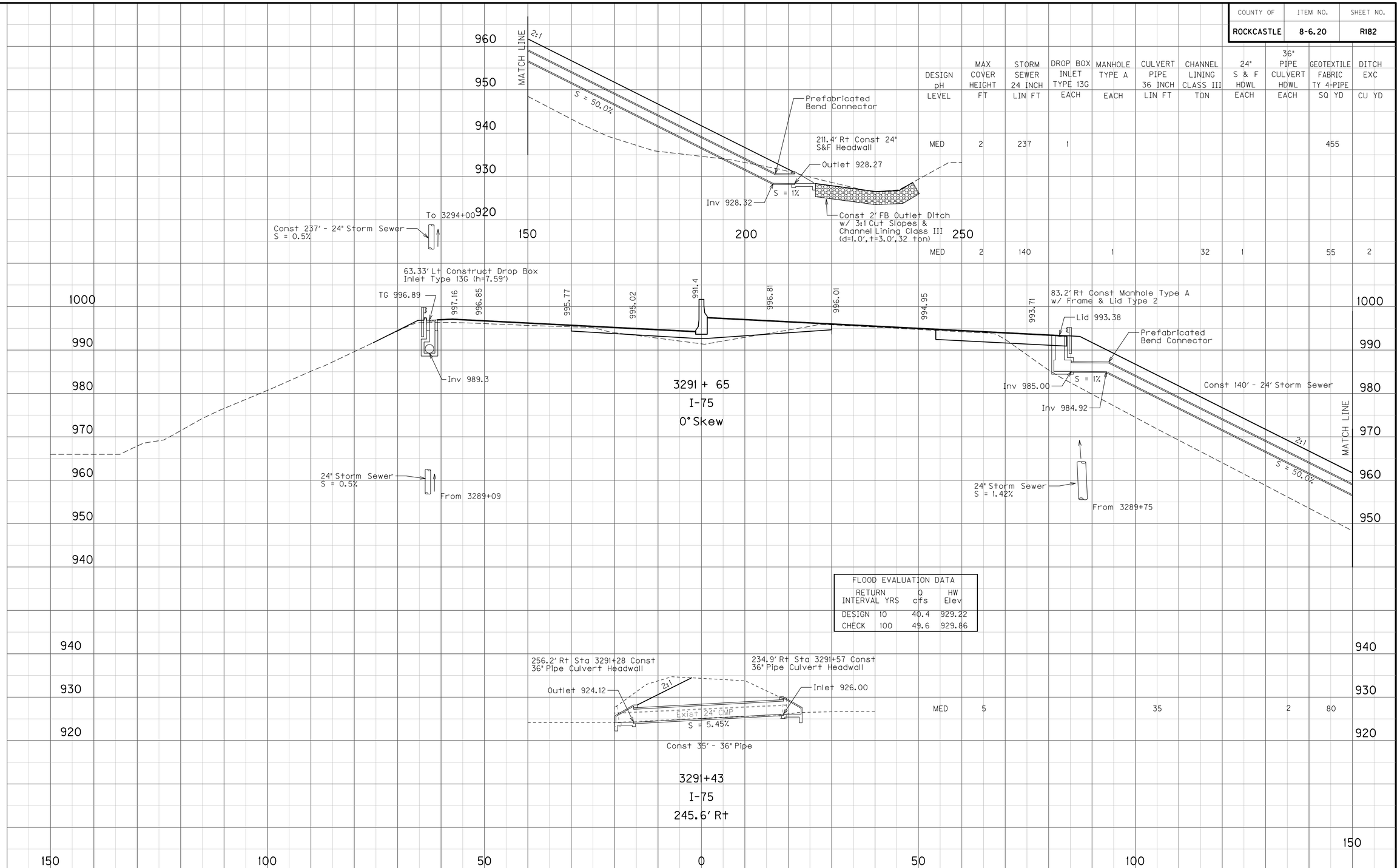


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3287+52.9 - STA 3289+75

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R182



DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 24 INCH LIN FT	DROP BOX INLET TYPE 13G EACH	MANHOLE TYPE A EACH	CULVERT PIPE 36 INCH LIN FT	CHANNEL LINING CLASS III TON	24" S & F HDWL EACH	36" PIPE CULVERT HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
MED	2	237	1						455	
MED	2	140		1		32	1		55	2
MED	5				35			2	80	

FLOOD EVALUATION DATA

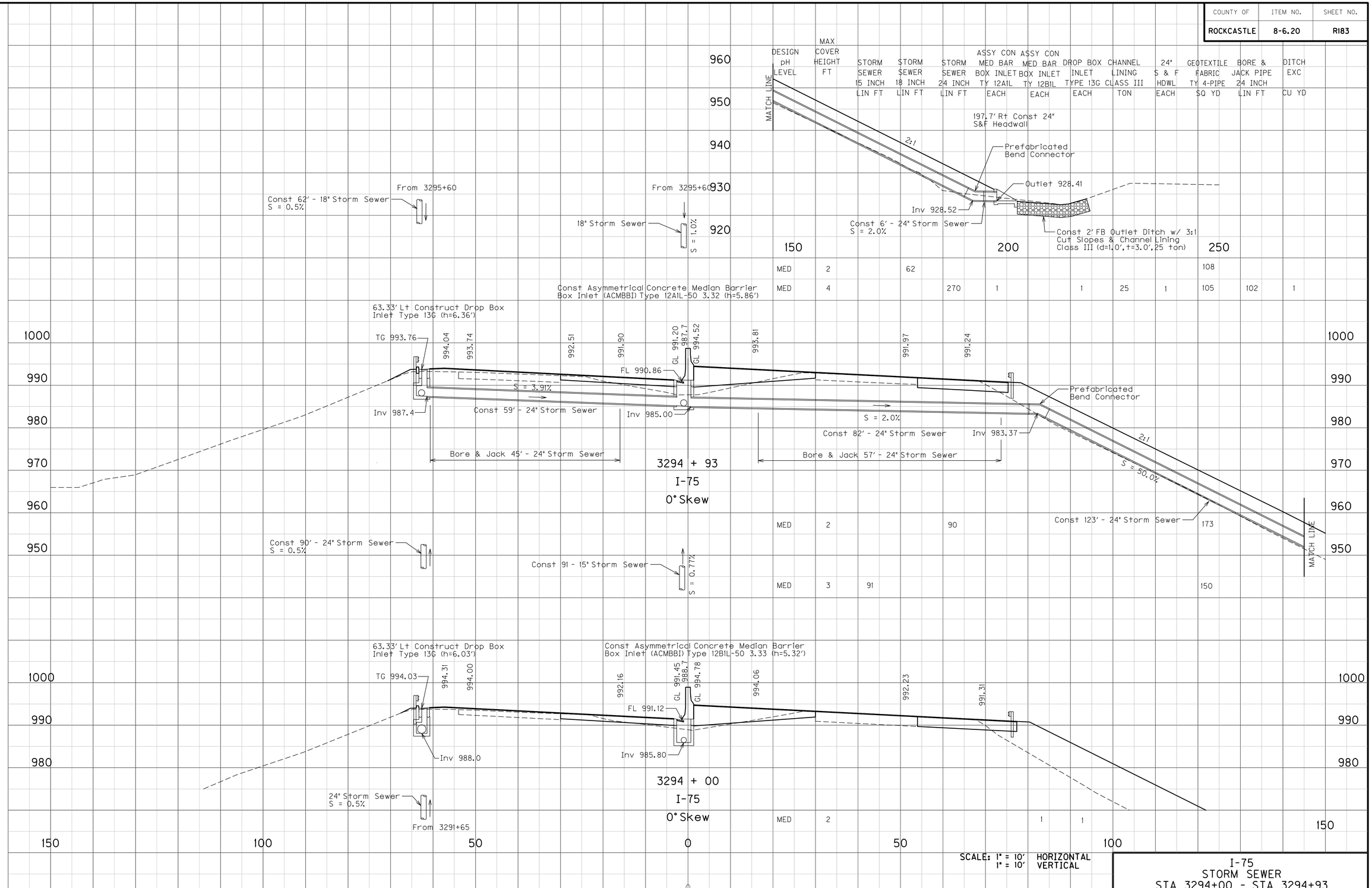
	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	10	40.4	929.22
CHECK	100	49.6	929.86

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3291+43 - STA 3291+65

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: hkrugpren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

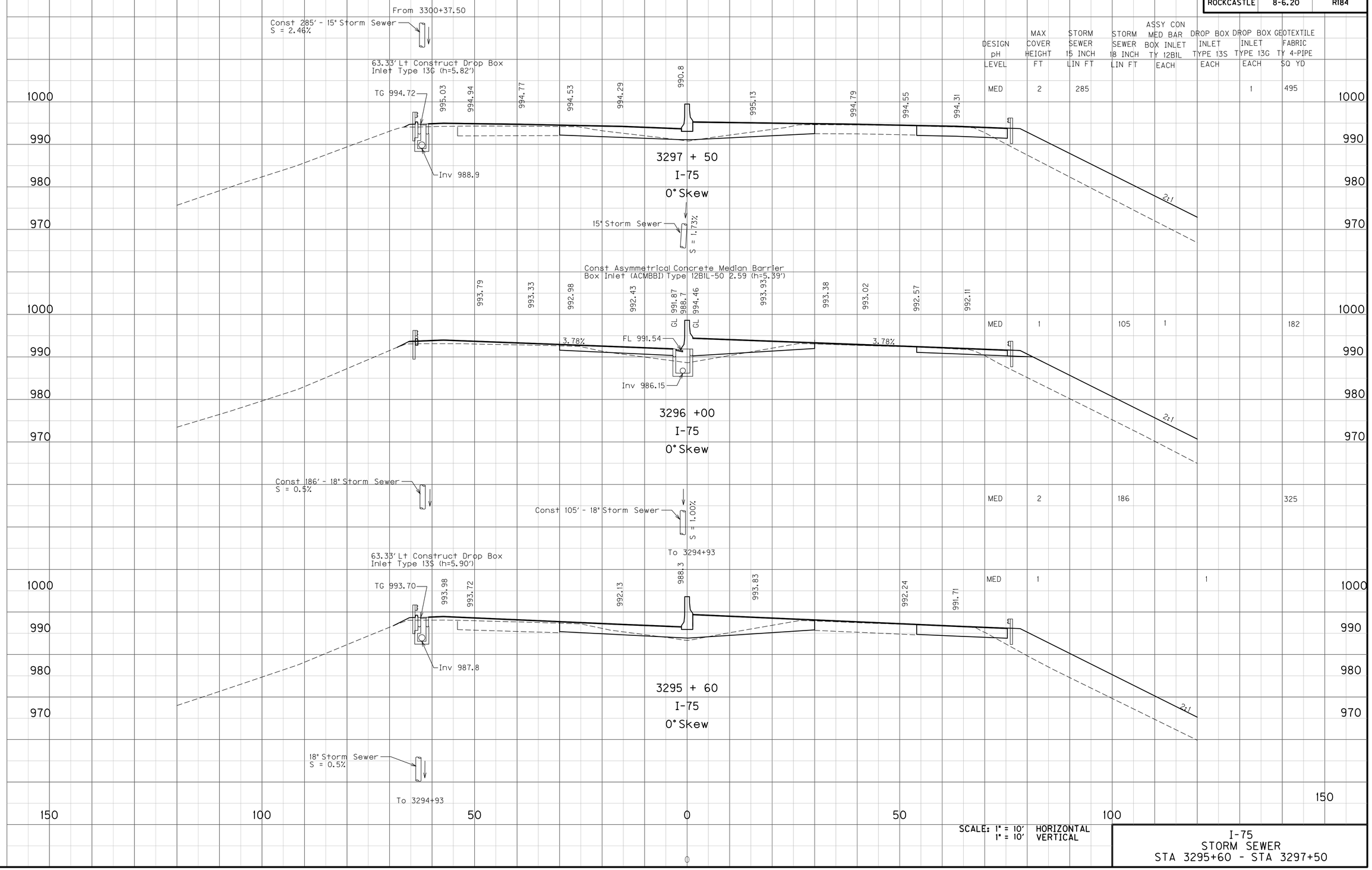
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R183



I-75
STORM SEWER
STA 3294+00 - STA 3294+93

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R184



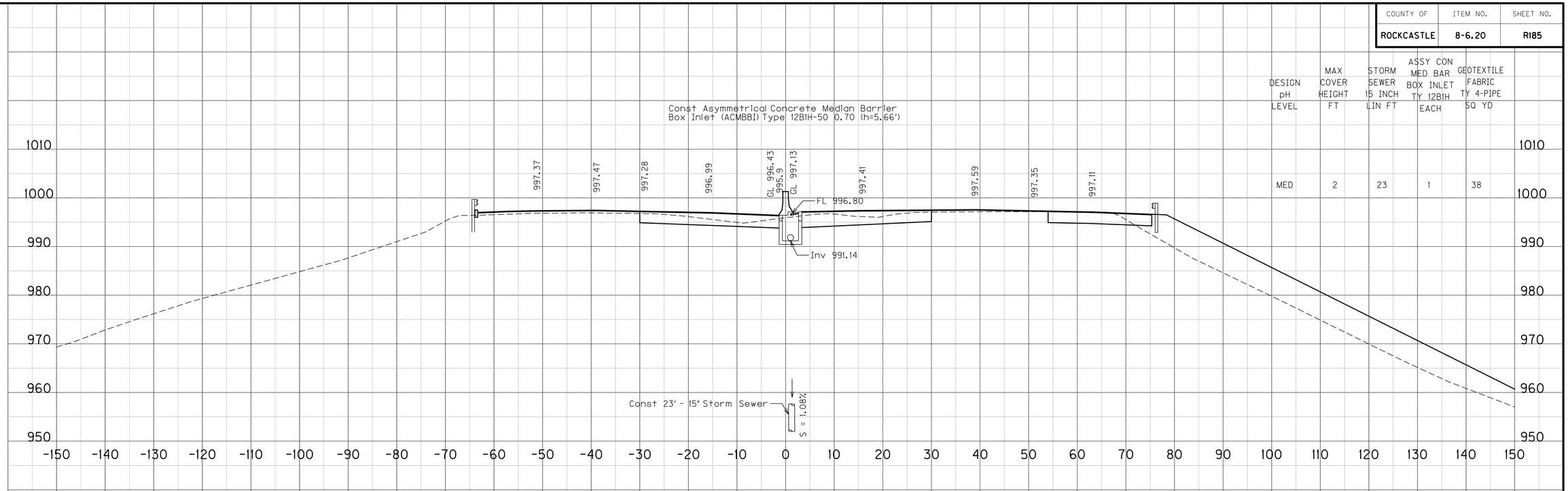
DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	DROP BOX INLET TYPE 13S EACH	DROP BOX INLET TYPE 13G EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2	285				1	495
MED	1		105	1			182
MED	2		186				325
MED	1				1		

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

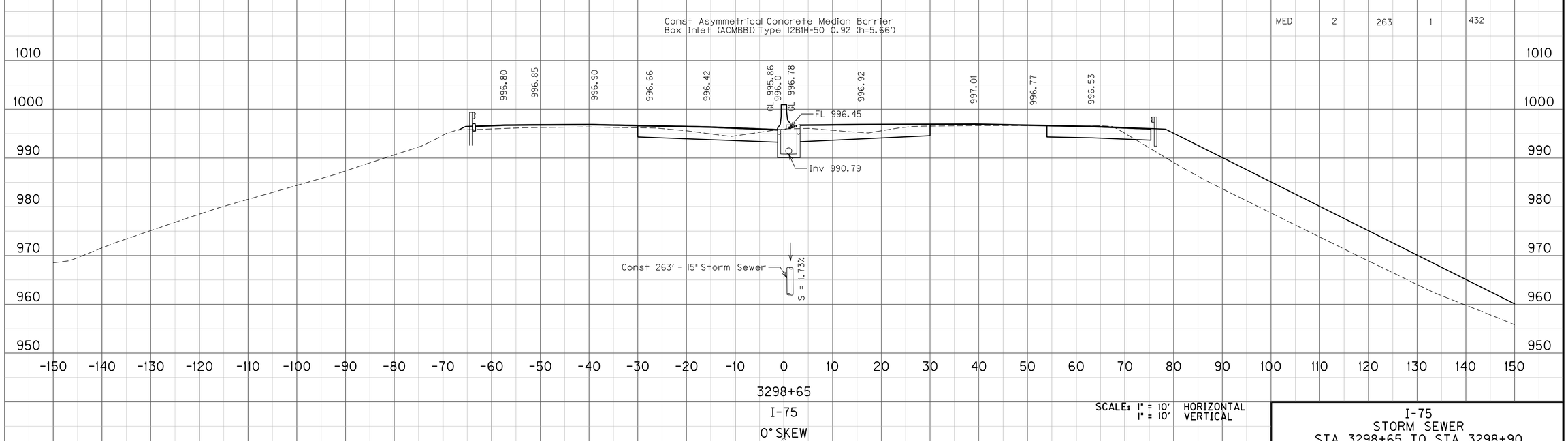
I-75
STORM SEWER
STA 3295+60 - STA 3297+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsarappuren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R185



DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12B1H EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2	23	1	38



MED	2	263	1	432

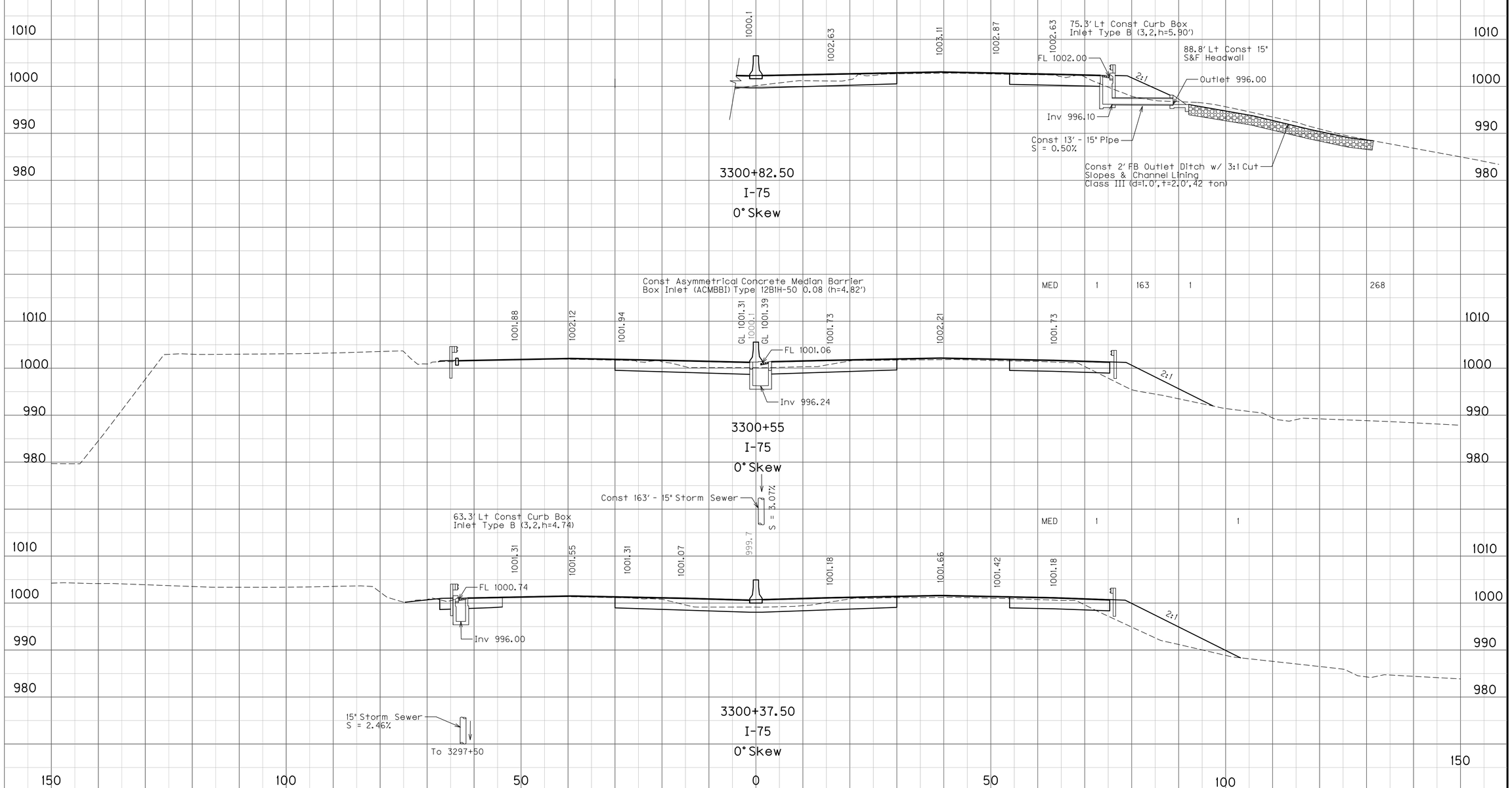
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3298+65 TO STA 3298+90

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R186

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12B1H EACH	CURB BOX INLET TYPE B EACH	15" S & F HDWL EACH	CHANNEL LINING CLASS III TON	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
MED	1	13		1	1	42	20	6
MED	1	163	1				268	
MED	1			1				



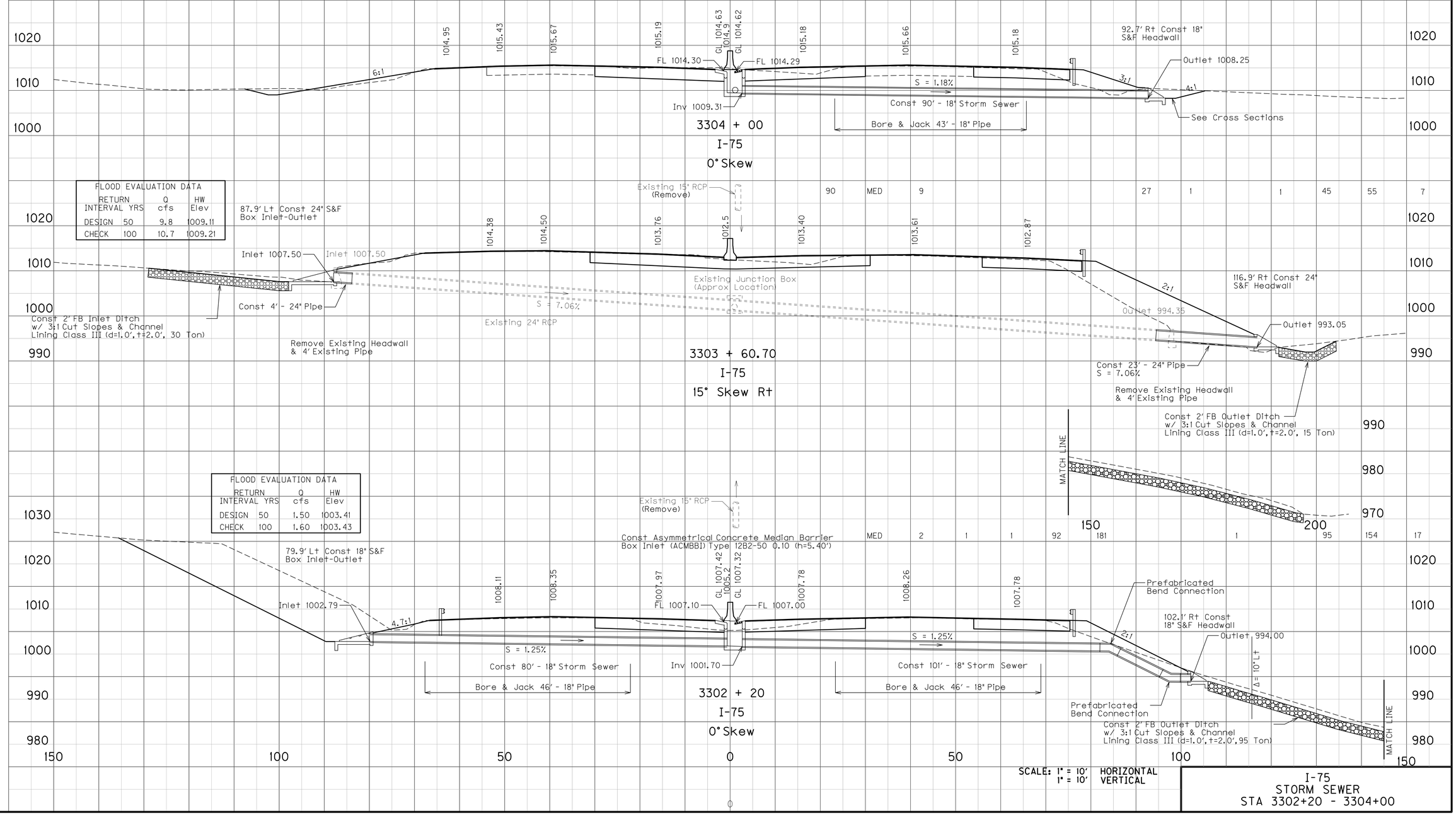
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3300+37.50 - STA 3300+82.50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: hsmith
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R187

	CIPP LINER 24 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	S&F BOX IN-OUT 18 INCH EACH	18" S & F HDWL EACH	BORE & JACK PIPE 18 INCH LIN FT	STORM SEWER 18 INCH LIN FT	CULVERT PIPE 24 INCH LIN FT	S&F BOX IN-OUT 24 INCH EACH	ASSY CON MED BAR BOX INLET TY 12B2 EACH	24" S & F HDWL EACH	CHANNEL LINING CLASS III TON	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12B2-50 0.010 (h=4.99')		MED	2		1	43	90			1			85	
3304 + 00 I-75 0° Skew														
3303 + 60.70 I-75 15° Skew Rt	90	MED	9					27	1		1	45	55	7
3302 + 20 I-75 0° Skew		MED	2	1	1	92	181			1		95	154	17



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3302+20 - 3304+00

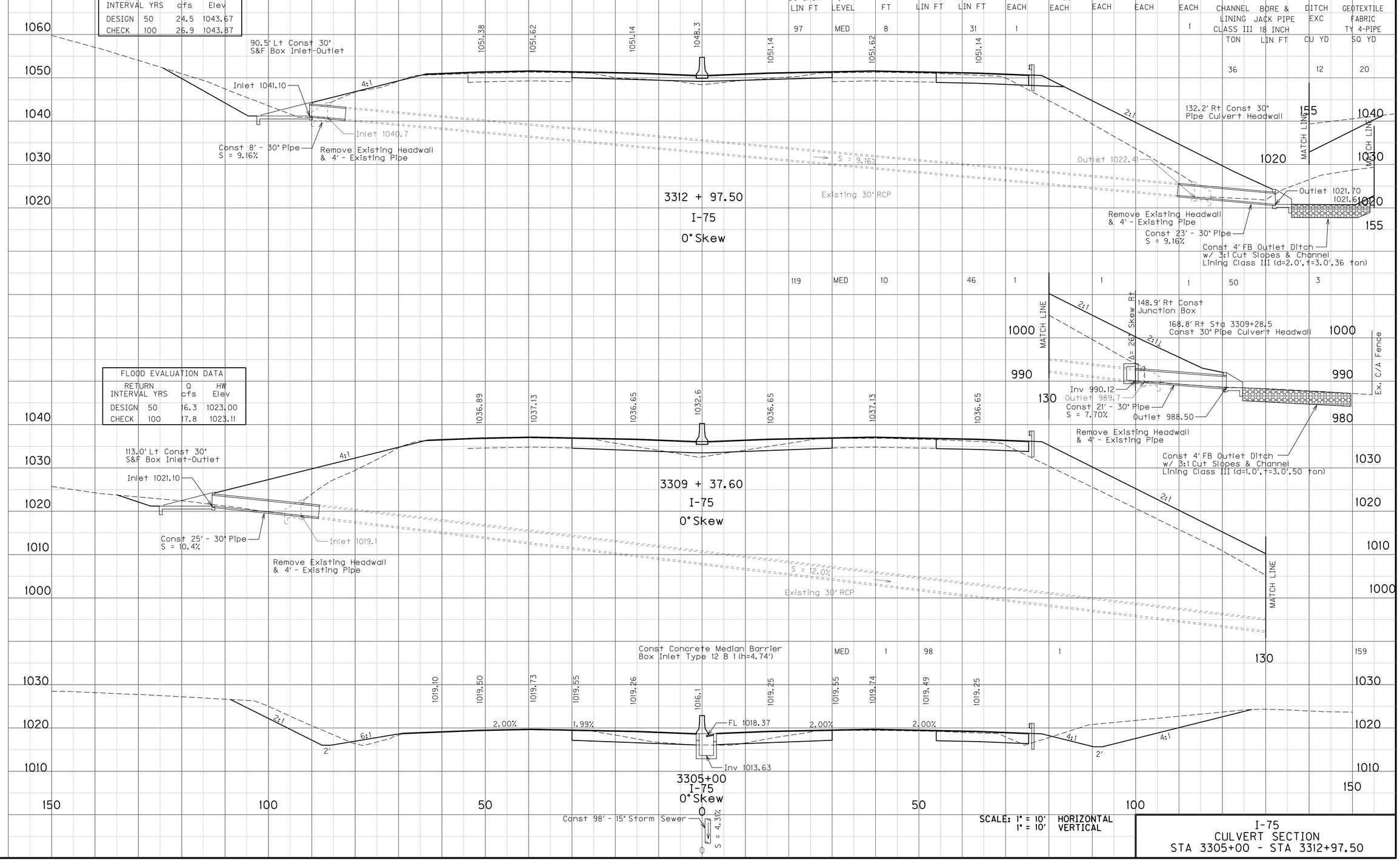
FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_8SHEET.DGN
USER: tsvangarren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R188

	CIPP LINER 30 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	CULVERT PIPE 30 INCH LIN FT	S&F BOX IN-OUT 30 INCH EACH	CON MED BAR BOX INLET TY 12B1 EACH	JUNCTION BOX 36 INCH EACH	18" S & F HDWL EACH	30" PIPE CULVERT HDWL EACH	CHANNEL LINING CLASS III TON	BORE & JACK PIPE 18 INCH LIN FT	DITCH EXC CU YD	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
3312 + 97.50 I-75 0° Skew	97	MED	8		31	1				1	36		12	20
3309 + 37.60 I-75 0° Skew	119	MED	10		46	1		1		1	50		3	
3305+00 I-75 0° Skew		MED	1	98			1							159

FLOOD EVALUATION DATA

RETURN INTERVAL YRS		Q cfs	HW Elev
DESIGN	50	24.5	1043.67
CHECK	100	26.9	1043.87

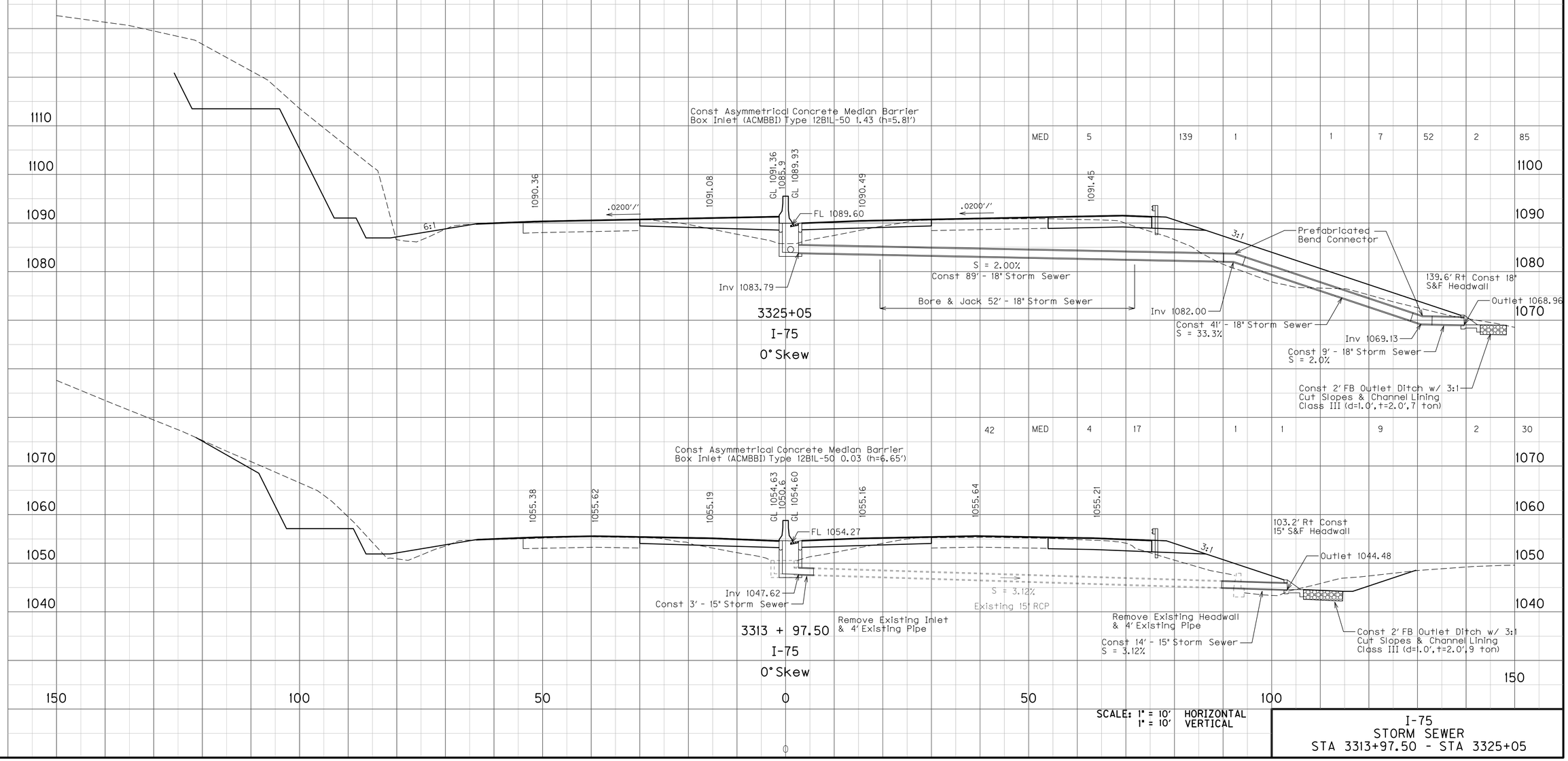


I-75
CULVERT SECTION
STA 3305+00 - STA 3312+97.50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: tsvarpaven
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R189

	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 18 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	15" S & F HDWL EACH	18" S & F HDWL EACH	CHANNEL LINING CLASS III TON	BORE & JACK PIPE 18 INCH LIN FT	DITCH EXC CU YD	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12BIL-50 1.43 (h=5.81')		MED	5		139	1		1	7	52	2	85
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12BIL-50 0.03 (h=6.65')	42	MED	4	17		1	1		9		2	30

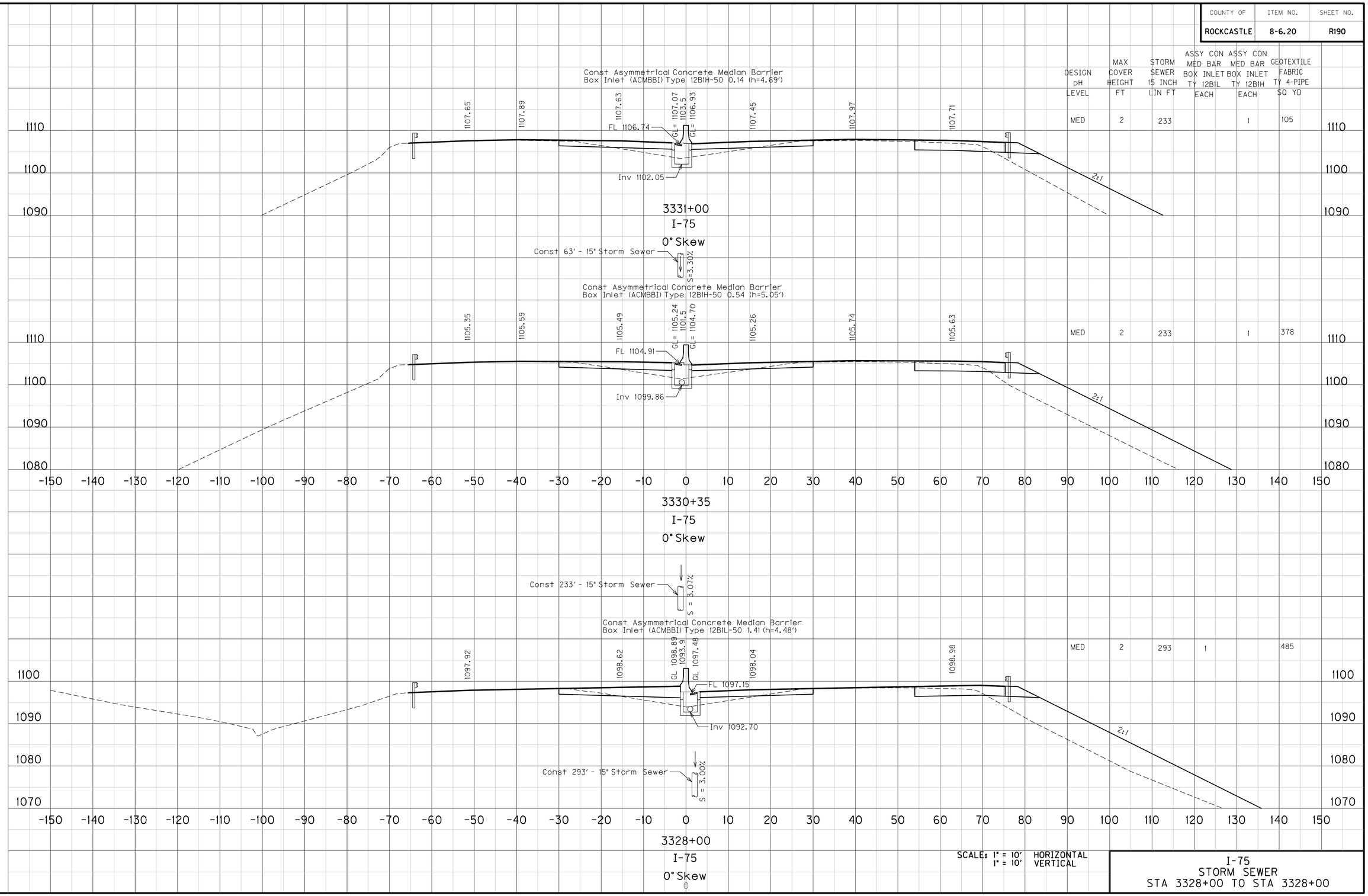


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3313+97.50 - STA 3325+05

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: tsharpe
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R190



DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	ASSY CON MED BAR BOX INLET TY 12BIH EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2	233		1	105
MED	2	233		1	378
MED	2	293	1		485

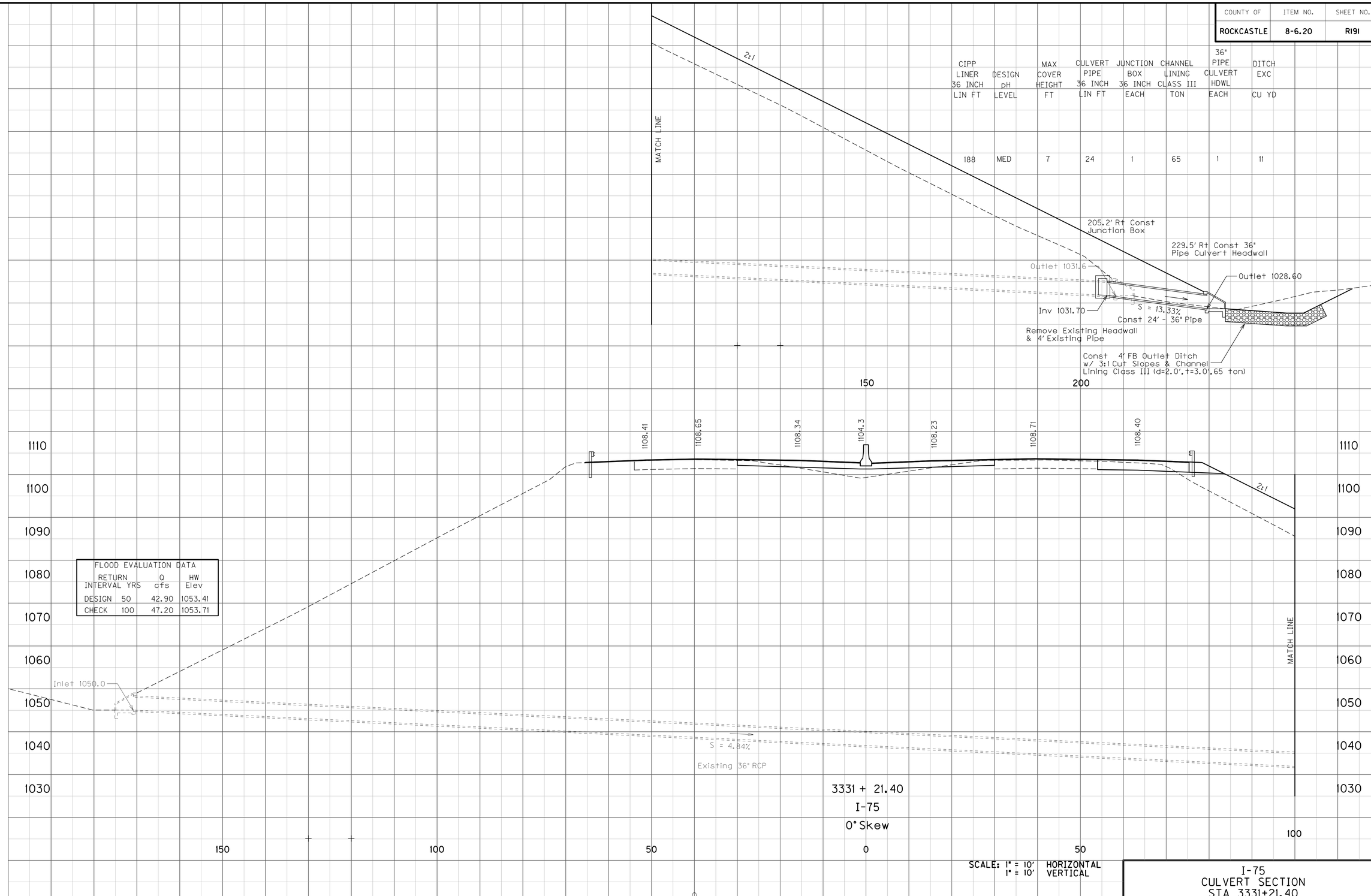
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3328+00 TO STA 3328+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsvangarren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R191

CIPP LINER 36 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 36 INCH LIN FT	JUNCTION BOX 36 INCH EACH	CHANNEL LINING CLASS III TON	36" PIPE CULVERT HDWL EACH	DITCH EXC CU YD
188	MED	7	24	1	65	1	11

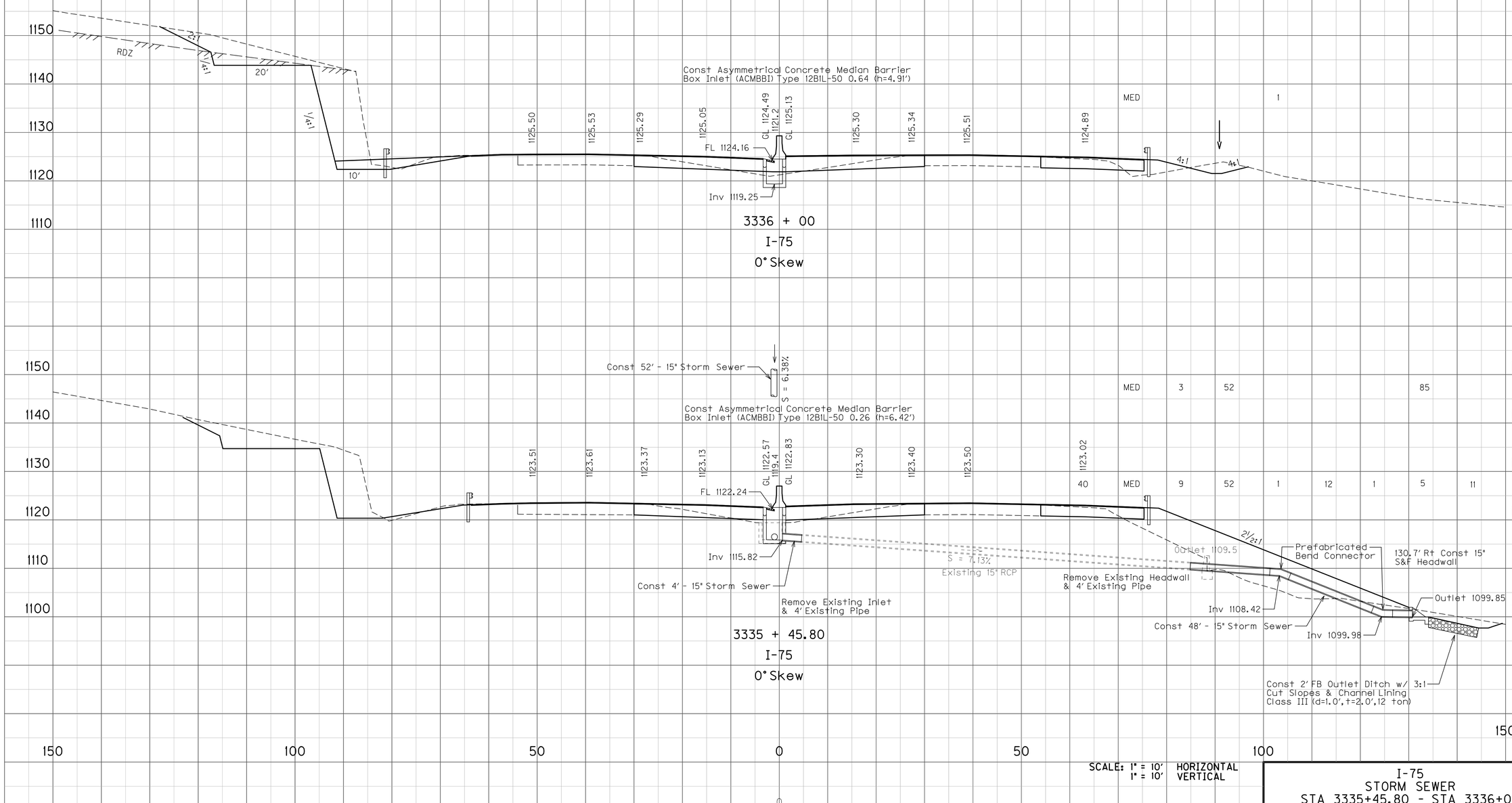


I-75
CULVERT SECTION
STA 3331+21.40

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R192

	CIPP LINER 15 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12BIL EACH	CHANNEL LINING CLASS III TON	15" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
3336 + 00 I-75 0° Skew		MED			1				
3335 + 45.80 I-75 0° Skew		MED	3	52				85	
	40	MED	9	52	1	12	1	5	11



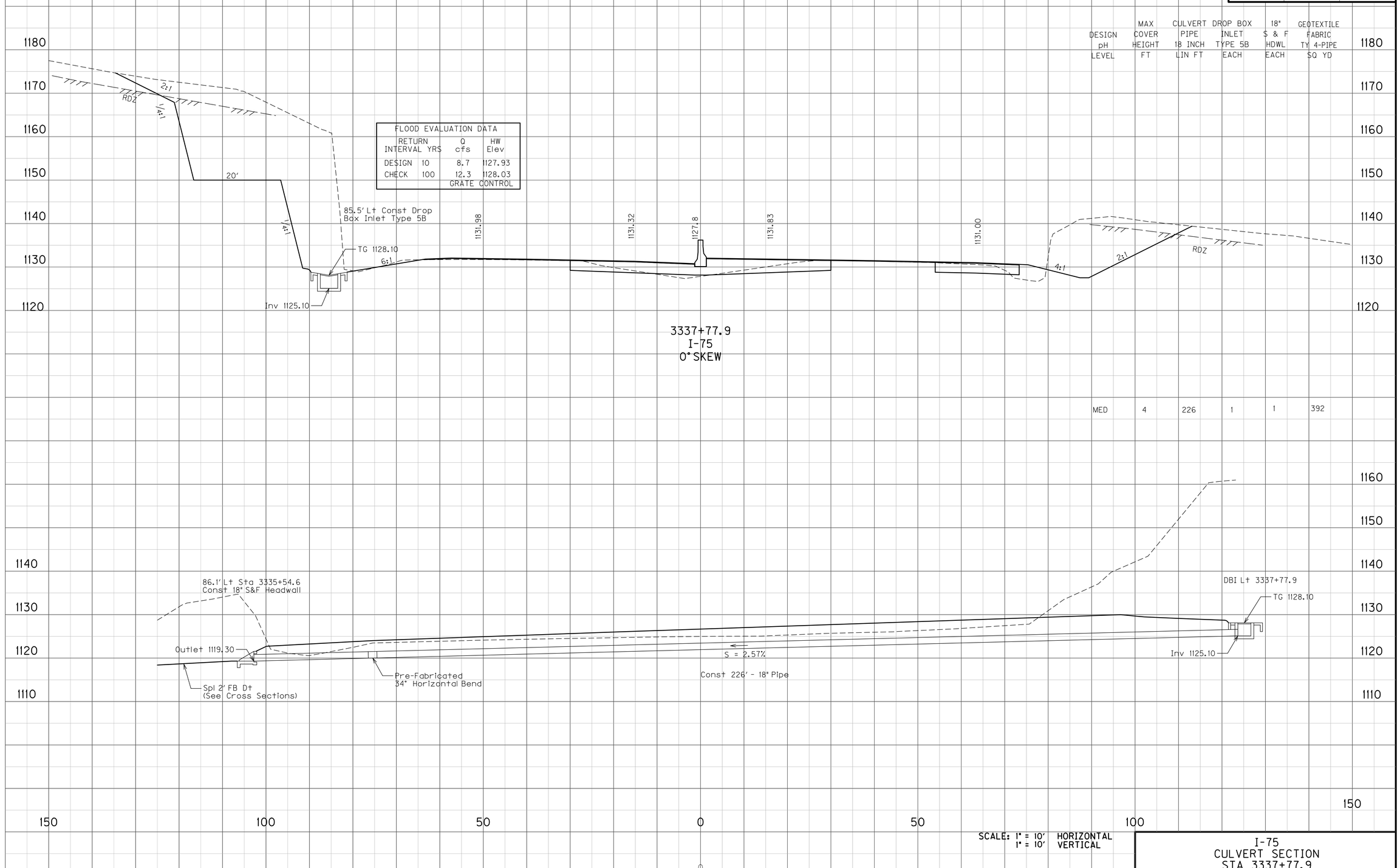
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3335+45.80 - STA 3336+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R193

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 18 INCH LIN FT	DROP BOX INLET TYPE 5B EACH	18" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	4	226	1	1	392



FLOOD EVALUATION DATA			
	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	10	8.7	1127.93
CHECK	100	12.3	1128.03
		GRATE CONTROL	

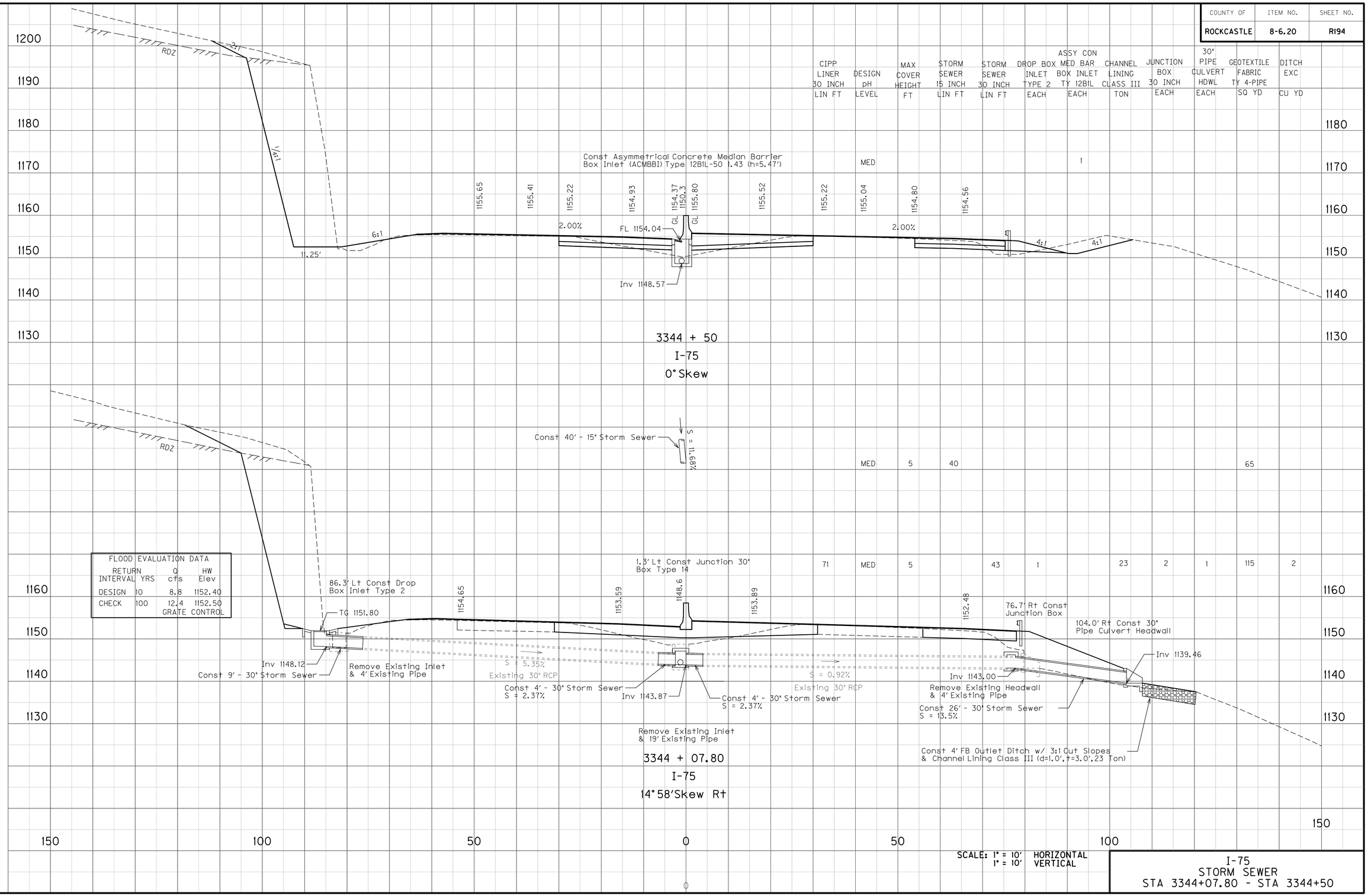
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3337+77.9

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R194

	CIPP LINER 30 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 30 INCH LIN FT	DROP BOX INLET TYPE 2 EACH	ASSY CON MED BAR BOX INLET TY 12BIL EACH	CHANNEL LINING CLASS III TON	JUNCTION BOX 30 INCH EACH	30" PIPE CULVERT HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD
Const Asymmetrical Concrete Median Barrier Box Inlet (ACMBBI) Type 12BIL-50 1.43 (h=5.47')		MED					1					
Const 40' - 15" Storm Sewer		MED	5	40							65	
1.3' Lt Const Junction 30" Box Type 14	71	MED	5		43	1		23	2	1	115	2

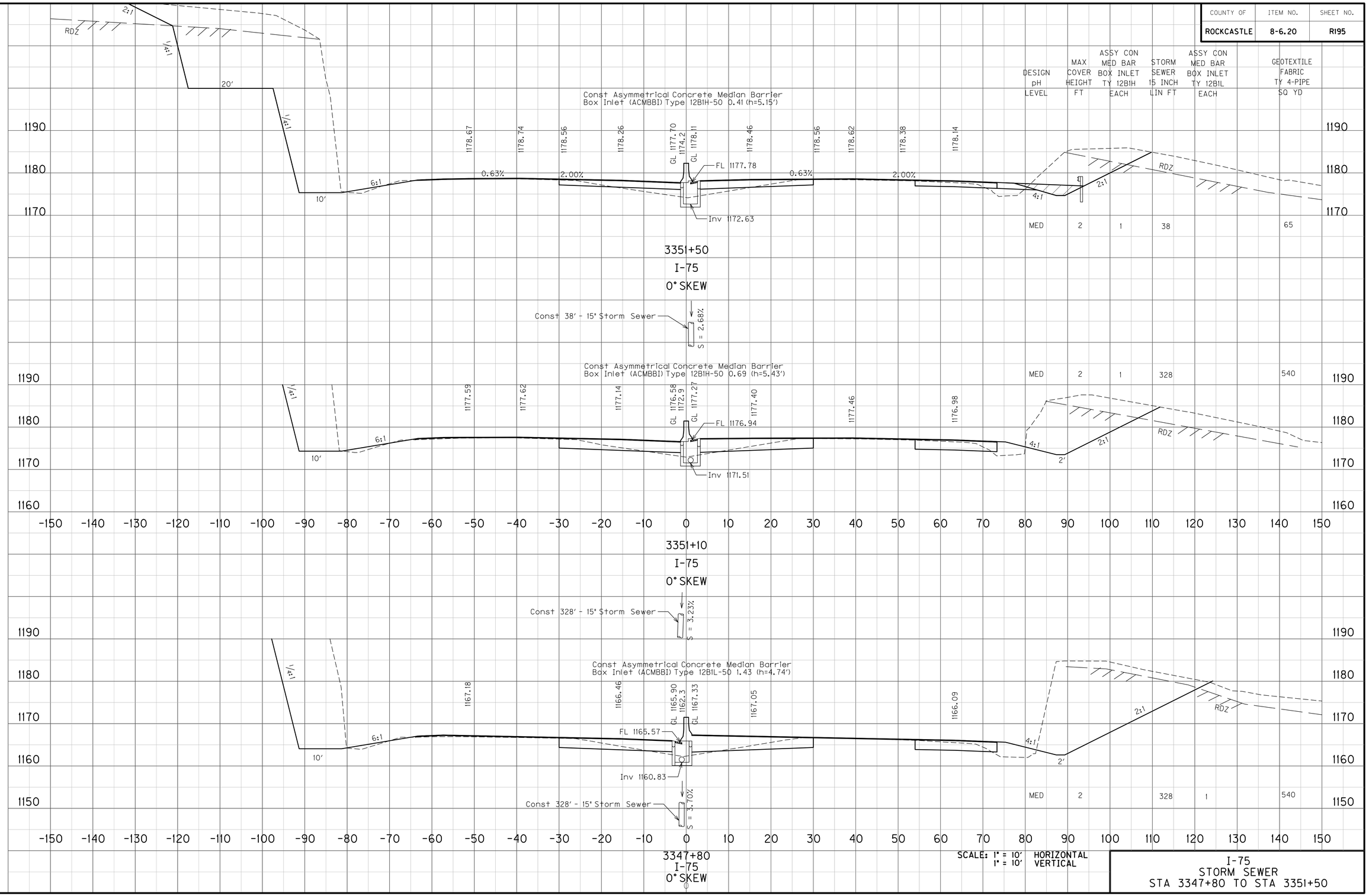


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3344+07.80 - STA 3344+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsvarpuren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R195



DESIGN pH LEVEL	MAX COVER HEIGHT FT	ASSY CON MED BAR BOX INLET TY 12B1H EACH	STORM SEWER 15 INCH LIN FT	ASSY CON MED BAR BOX INLET TY 12B1L EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2	1	38		65
MED	2	1	328		540
MED	2		328	1	540

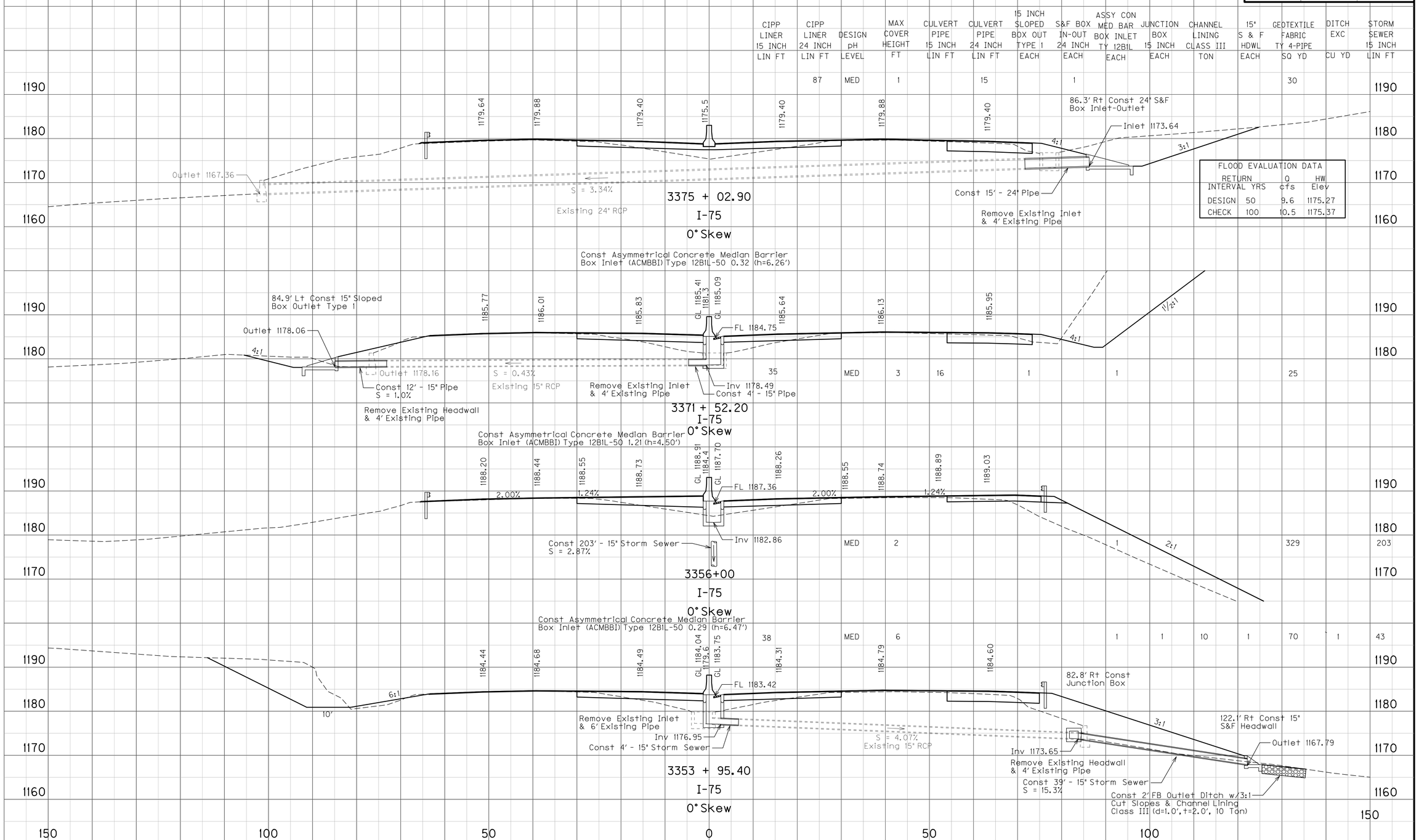
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3347+80 TO STA 3351+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BGSHEET.DGN
USER: tsvarrenen
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R196

	CIPP LINER 15 INCH LIN FT	CIPP LINER 24 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 15 INCH LIN FT	CULVERT PIPE 24 INCH LIN FT	15 INCH SLOPED BOX OUT TYPE 1 EACH	S&F BOX IN-OUT 24 INCH EACH	ASSY CON MED BAR BOX INLET TY 12BIL EACH	JUNCTION BOX 15 INCH EACH	CHANNEL LINING CLASS III TON	15" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	DITCH EXC CU YD	STORM SEWER 15 INCH LIN FT
		87	MED	1		15		1					30		
			MED	3	16		1		1				25		
	35		MED	2						1	2:1		329		203
	38		MED	6						1	1	10	1	70	1	43



FLOOD EVALUATION DATA			
	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	50	9.6	1175.27
CHECK	100	10.5	1175.37

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3353+95.40 - STA 3375+02.90

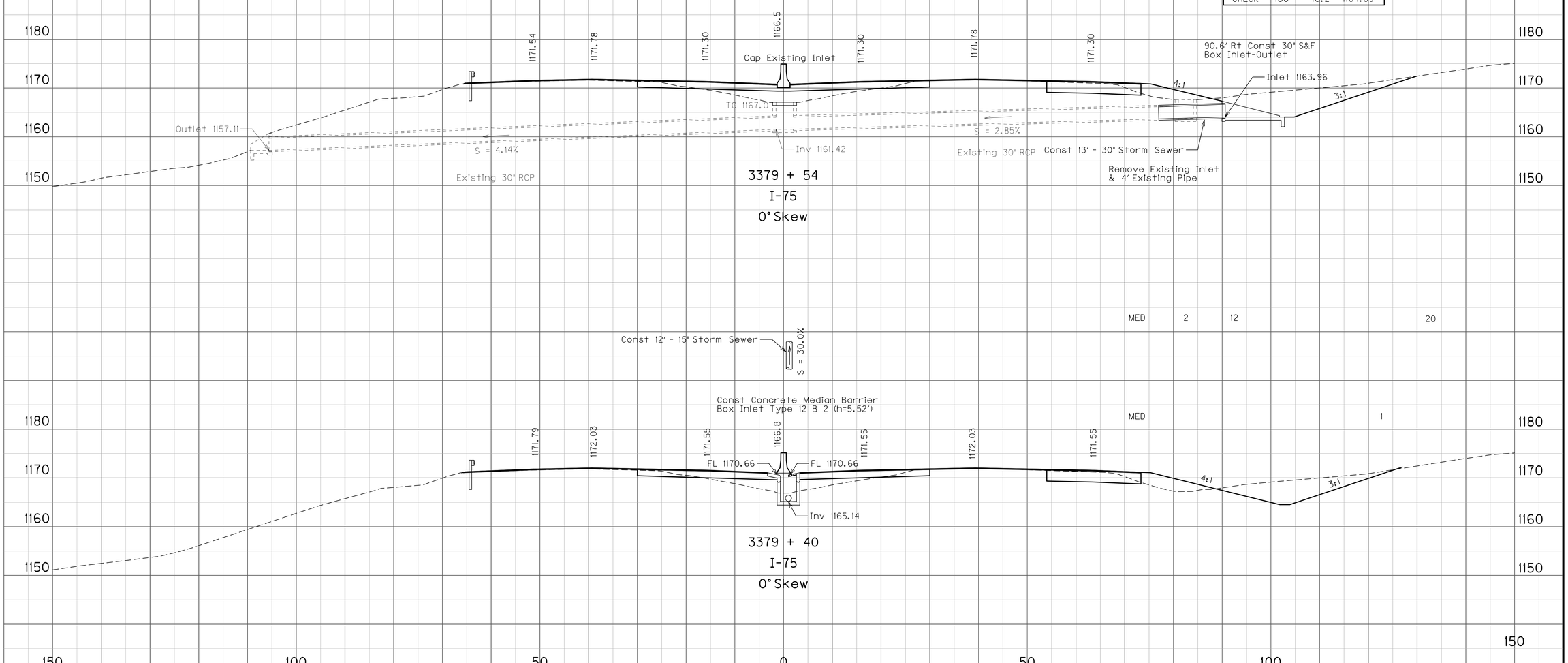
FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R197

	CIPP LINER 30 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 15 INCH LIN FT	STORM SEWER 30 INCH LIN FT	S&F BOX IN-OUT 30 INCH EACH	CON MED BAR BOX INLET TY 12B2 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD	CAP DROP BOX INLET EACH
	90	MED	2		13	1		30	1
		MED	2	12				20	
		MED					1		

FLOOD EVALUATION DATA

	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	50	9.3	1164.84
CHECK	100	10.2	1164.89

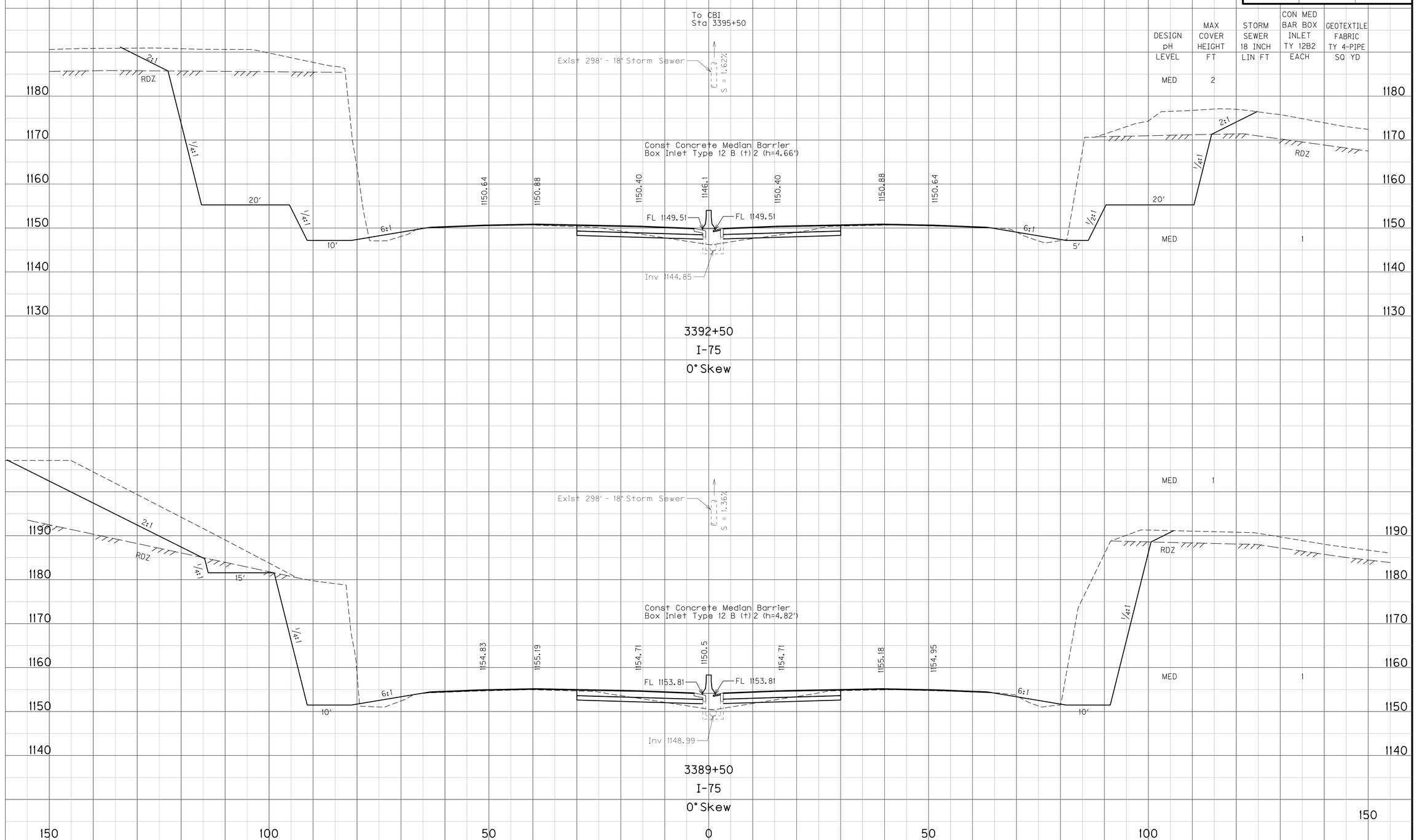


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3379+40 - STA 3379+54

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: hskaggs
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R198



DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 18 INCH LIN FT	CON MED BAR BOX INLET TY 12B2 EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	2			
MED			1	
MED			1	
MED			1	

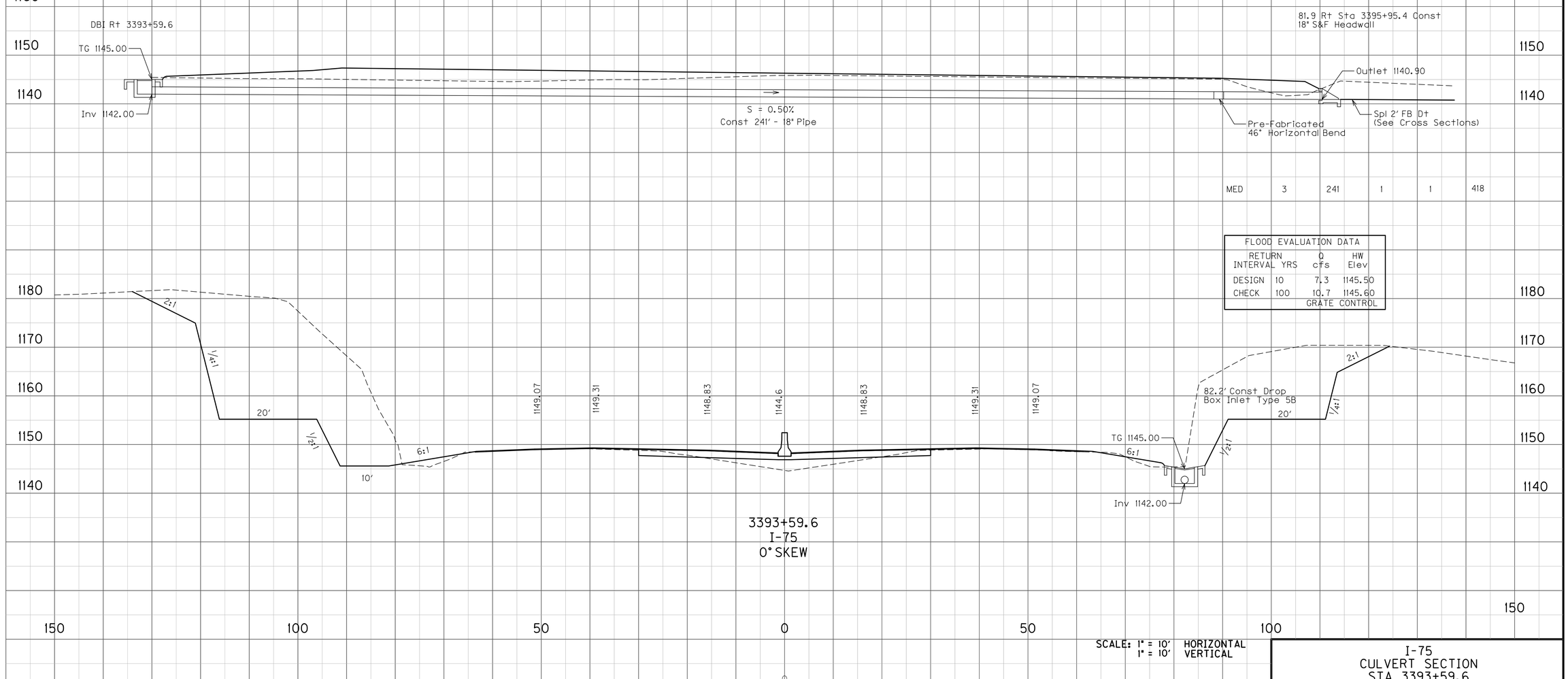
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3389+50 - STA 3392+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsvangerhren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R199

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 18 INCH LIN FT	DROP BOX INLET TYPE 5B EACH	18" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	3	241	1	1	418



FLOOD EVALUATION DATA

	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	10	7.3	1145.50
CHECK	100	10.7	1145.60
		GRATE CONTROL	

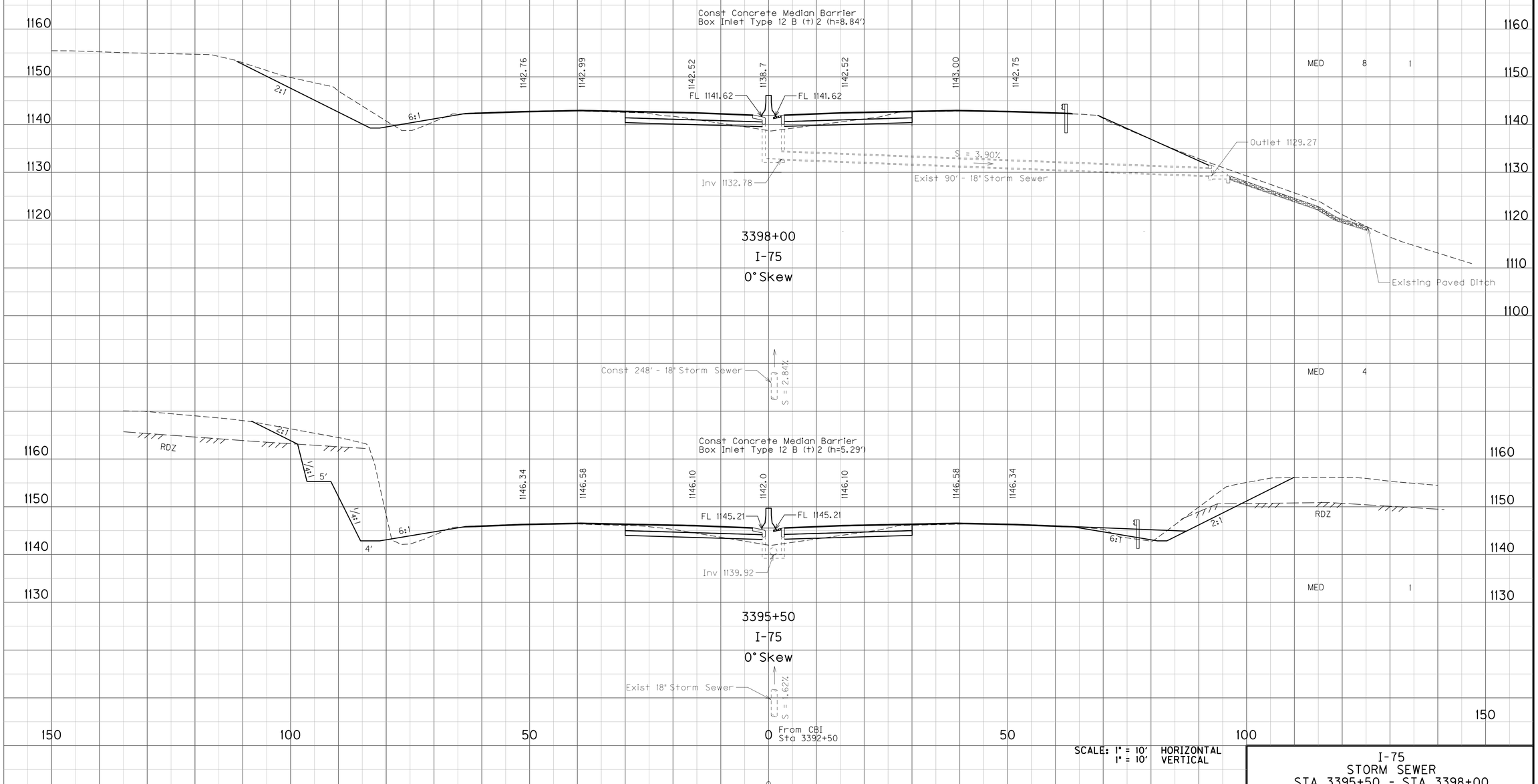
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
CULVERT SECTION
STA 3393+59.6

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES.DGNSHEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R200

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CON MED BAR BOX INLET TY 12B2 EACH
MED	8	1
MED	4	
MED		1



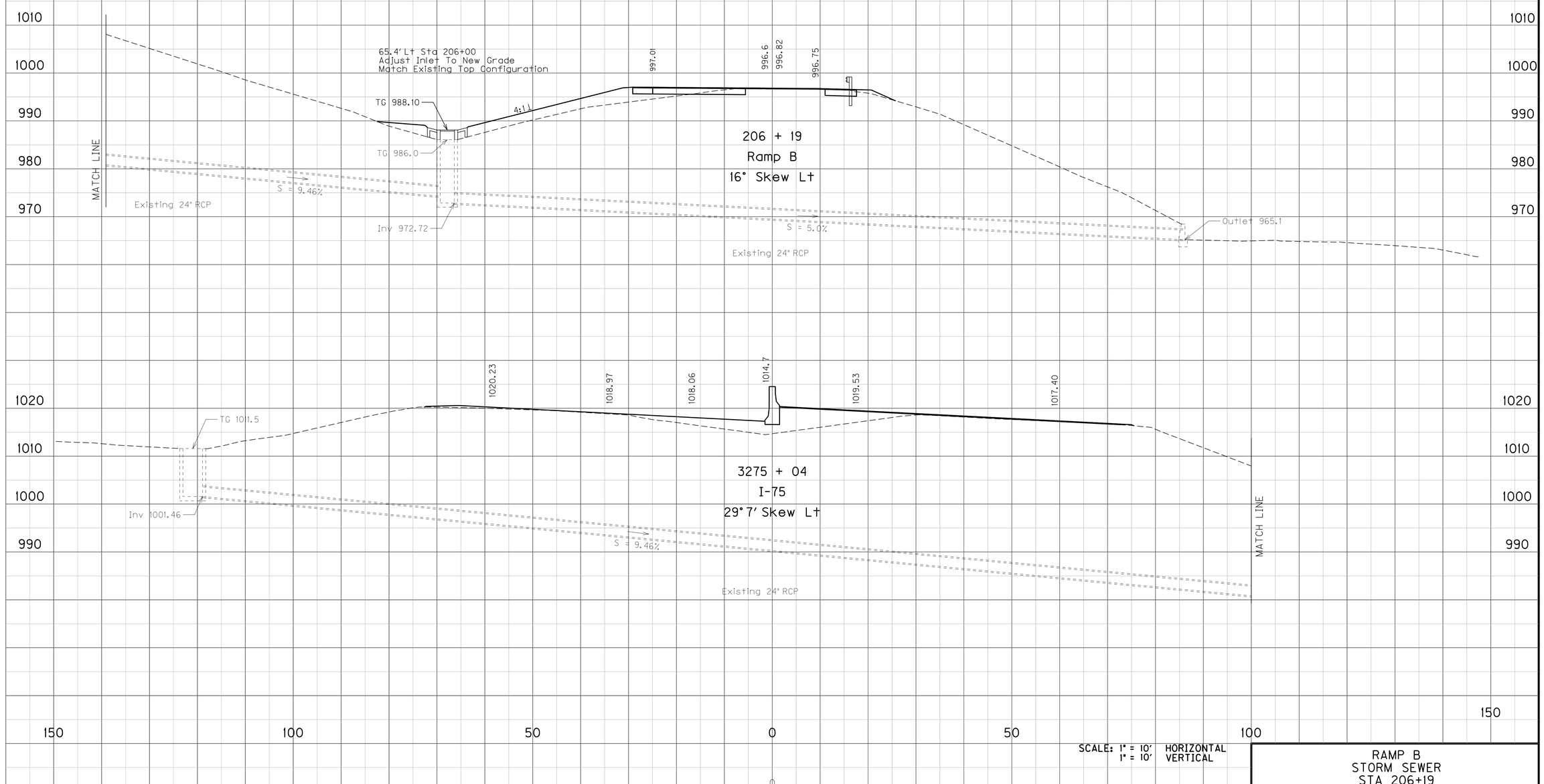
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

I-75
STORM SEWER
STA 3395+50 - STA 3398+00

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: hskrapenren
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R201

CIPP LINER 24 INCH	ADJUST INLET
LIN FT	EACH
76	1



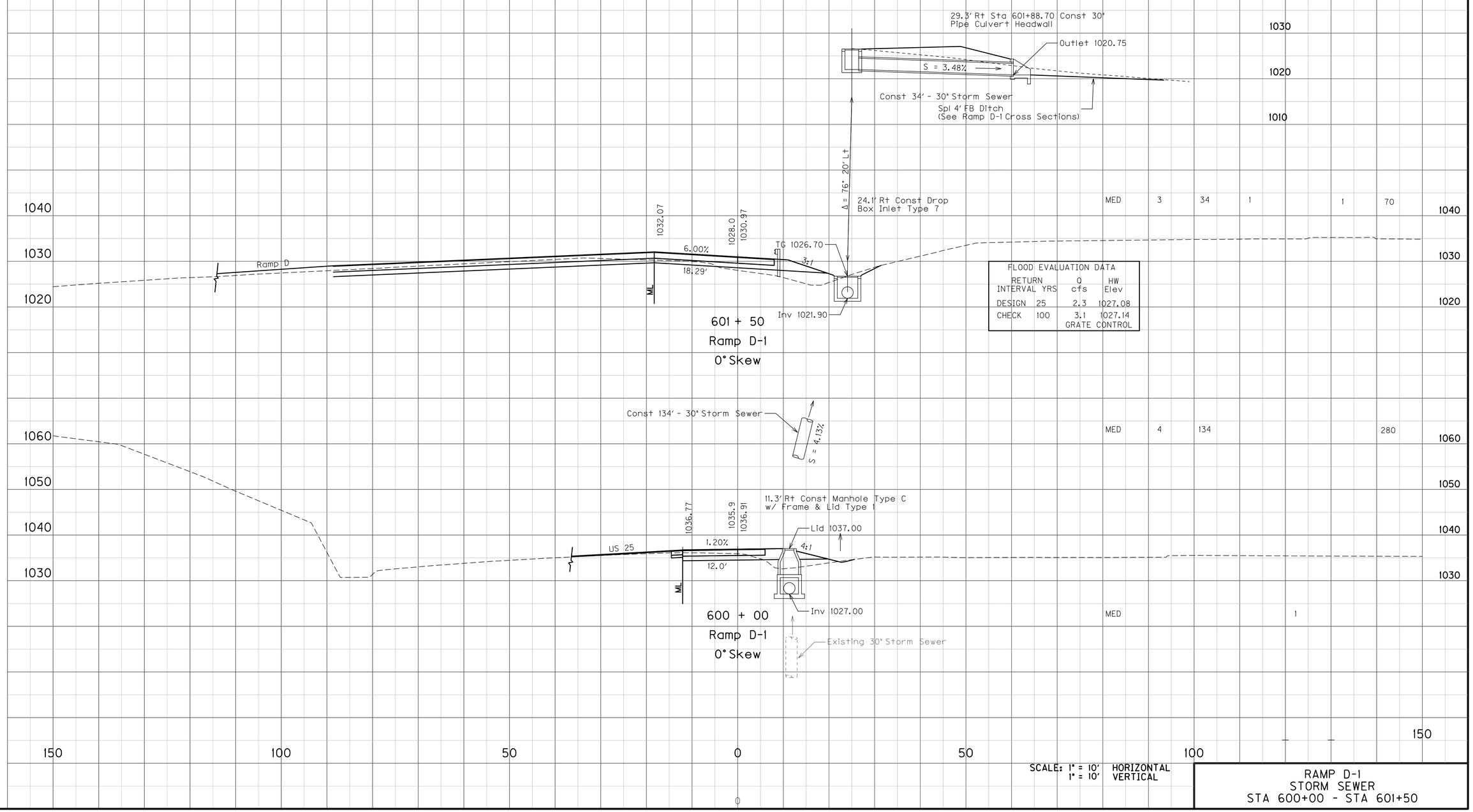
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

RAMP B
STORM SEWER
STA 206+19

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R202

	DESIGN pH LEVEL	MAX COVER HEIGHT FT	STORM SEWER 30 INCH LIN FT	DROP BOX INLET TYPE 7 EACH	MANHOLE TYPE C EACH	30" PIPE CULVERT HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
24.1' Rt Const Drop Box Inlet Type 7	MED	3	34	1		1	70
11.3' Rt Const Manhole Type C w/ Frame & Lid Type 1	MED	4	134		1		280



FLOOD EVALUATION DATA

RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN 25	2.3	1027.08
CHECK 100	3.1	1027.14
	GRATE CONTROL	

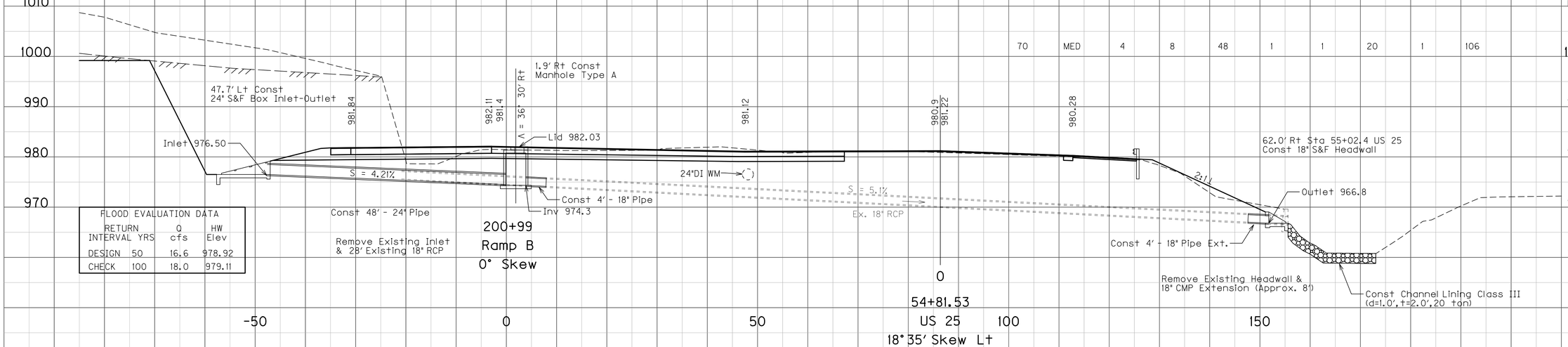
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

RAMP D-1
STORM SEWER
STA 600+00 - STA 601+50

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNEET.DGN
USER: tsarappuren
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R203

	CIPP LINER 18 INCH LIN FT	DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 18 INCH LIN FT	CULVERT PIPE 24 INCH LIN FT	S&F BOX IN-OUT 24 INCH EACH	MANHOLE TYPE A EACH	CHANNEL LINING CLASS III TON	18" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
	70	MED	4	8	48	1	1	20	1	106



FLOOD EVALUATION DATA			
	RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN	50	16.6	978.92
CHECK	100	18.0	979.11

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

RAMP B
CULVERT SECTION
STA 200+99

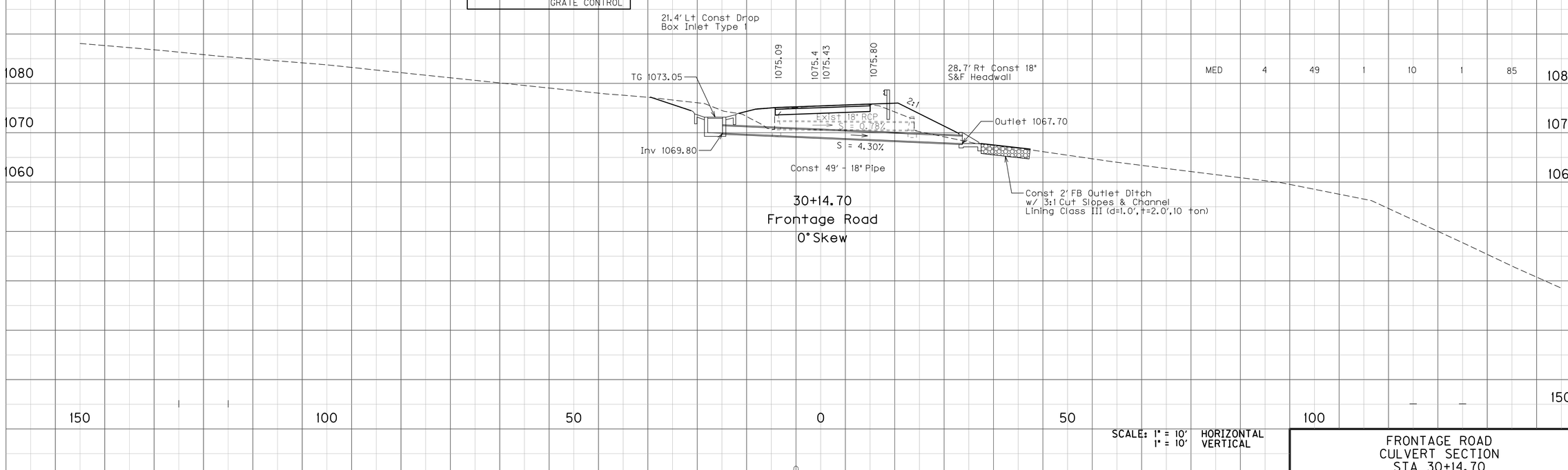
FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNCET.DGN
USER: [illegible]
DATE PLOTTED: August 23,2007
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R204

DESIGN pH LEVEL	MAX COVER HEIGHT FT	CULVERT PIPE 18 INCH LIN FT	DROP BOX INLET TYPE 1 EACH	CHANNEL LINING CLASS III TON	18" S & F HDWL EACH	GEOTEXTILE FABRIC TY 4-PIPE SQ YD
MED	4	49	1	10	1	85

FLOOD EVALUATION DATA

RETURN INTERVAL YRS	Q cfs	HW Elev
DESIGN 10	2.2	1073.25
CHECK 100	3.2	1073.35
	GRATE CONTROL	



30+14.70
Frontage Road
0° Skew

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

FRONTAGE ROAD
CULVERT SECTION
STA 30+14.70

FILE NAME: P:\CIVIL\ROCK75\FINAL\DRAIN\PIPES_BSNCET.DGN
USER: hskaggeren
DATE PLOTTED: August 23,2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R205

GEOTECHNICAL NOTES

1. Clearing and grubbing of embankment areas shall be completed in accordance with Section 202 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

2. Removal of existing structures and obstructions shall be completed in accordance with Section 203 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

3. All water wells within the limits of construction, whether shown on the plans or not, shall be plugged in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

4. As shown on the plans, and/or directed by the Engineer, all catch basins and manholes shall be filled and capped, and all septic tanks shall be cleaned and filled in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

5. All channel changes and special ditches shall be constructed prior to placement of any embankment materials adjacent to them in accordance with Section 206 of the current Standard Specifications for Road and Bridge Construction. Materials excavated from these areas maybe utilized in construction of the embankments, but may require aeration to the proper moisture contents prior to compaction operations. No extra payment shall be permitted for rehandling, hauling, stockpiling and/or manipulating these materials.

6. The moisture content of embankment material or subgrade shall not vary from the optimum moisture content, as determined by KM 64-511, by more than plus or minus two percent in accordance with Section 206 of the current Standard Specifications for Road and Bridge Construction. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment for subgrade construction. Refer to the Family of Curves for moisture-density relationships.

7. Embankment construction, including placement and compaction of non-durable shales, shall be in accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

8. All soils, whether from roadway excavation or borrow, may require manipulation to obtain proper moisture contents prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling and/or manipulating soils.

9. The Contractor shall be responsible for conducting any operations necessary to excavate the cut areas to the required typical sections. The cost of these operations shall be incidental to the earthwork.

10. Procedures shall be performed as required to control erosion and siltation in accordance with Sections 212 and 213 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

11. The Contractor shall conduct grading operations in such a manner that durable limestone from the roadway excavation is stockpiled separately or otherwise manipulated so as to be available for use in those areas requiring said material. No direct payment will be allowed for such necessary manipulation as stockpiling, rehandling the material, and/or hauling.

12. The Contractor shall construct foundation embankment benches and transverse benches as indicated on the plans or as directed by the Engineer, prior to placement of embankments in areas requiring such benches.

13. Embankment foundation benches/slope serrations shall be constructed at the following approximate locations in accordance with Standard Drawing RGX-010, the project cross sections and as directed by the Engineer. The benches shall be constructed one at a time beginning with the lowest bench. Each bench shall be backfilled prior to excavation of the next highest bench in order to help maintain stability of the existing slopes.

Approximate Station Limits

Mainline
3290+00 to 3296+00

Ramp C
305+00 to 308+00

Ramp D
402+00 to 406+75

14. Transverse benching and/or perforated pipe underdrains shall be installed and/or extended as indicated on project plans, profiles and cross-sections in accordance with Standard Drawings RDP-005 and RDP-006, as applicable, and as directed by the Engineer. In addition, perforated pipe underdrains shall be installed in areas showing signs of seepage as directed by the Engineer.

15. Any saturated, soft, unstable areas encountered within embankment foundation limits and/or any other areas as directed by the Engineer shall be drained and stabilized with broken limestone obtained from roadway excavation within the project limits. A minimum 2-foot working platform shall be constructed in such areas. Granular embankment material shall be in accordance with Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. The limestone and/or granular embankment shall be underlain with Type III Geotextile Fabric in accordance with Sections 214 and 843 of the current Standard Specifications. Actual locations requiring such treatment, and the depths of stabilization necessary, shall be determined by the Engineer during construction. In addition, positive drainage of all abandoned ditches and swales shall be maintained to reduce the possibility of trapping water within the roadway embankments.

For use in establishing bid quantities, it is recommended that the quantities of fabric be based on stabilizing the embankment foundation areas at the following approximate locations.

Approximate Station Limits

3271+00 to 3273+00
3380+00 to 3385+00

16. In areas where shale is considered "common excavation" and is positioned within one (1) foot of the required grade, the shale shall be undercut one (1) foot below grade as directed by the Engineer. The limits of the roadbed excavation shall extend across the template from ditchline to ditchline, as specified in Section 204 of the current Standard Specifications for Road and Bridge Construction. The refill shall be constructed with soil.

17. The Contractor shall stockpile a sufficient quantity of soil from roadway excavation for the one (1) foot soil subgrade identified in Geotechnical Note 16 that is free of shale and rock fragments. It should be noted that the nondurable shales on the project typically break down to soil-like materials with a CBR value less than 3.0. Therefore, non-durable shales shall not be placed in the subgrade.

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF
ROCKCASTLE

PROJECT NUMBERS FD04 039 8539 001

DATE _____ BY _____ PROJECT MANAGER

GEOTECHNICAL NOTES

MicroStation v8.11.7.443 | E-SHEET NAME: R205GNOT | USER: lstaggs DATE PLOTTED: January 1, 0001 | FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R205GOGT.DGN | PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. | DATE: OCTOBER, 2001

GEOTECHNICAL SYMBOL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R206

AASHTO Classification of Soils and Soil-Aggregate Mixtures

General Classification	Granular Materials (35% or less passing 0.075 mm)							Silt-Clay Materials (More than 35% passing 0.075 mm)			
Group Classification	A-1		A-3	A-2				A-4	A-5	A-6	A-7
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6
Sieve Analyses, percent Passing											
2.00 mm (No. 10)	50 max	---	---	---	---	---	---	---	---	---	---
0.425 mm (No. 40)	30 max	50 max	51 min	---	---	---	---	---	---	---	---
0.075 mm (No. 200)	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
Characteristics of Fraction Passing 0.425 mm (No. 40)											
Liquid Limit	---		---	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min
Plasticity Index	6 max		N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min

Unified Soil Classifications

MAJOR DIVISIONS		SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel-sand mixtures, little or no fines.
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GM	Silty gravels, gravel-sand-silt mixtures.
		GC	Clayey gravels, gravel-sand-clay mixtures.
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines.
		SP	Poorly graded sands or gravelly sands, little or no fines.
		SM	Silty sands, sand-silt mixtures.
		SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS	SILTS AND CLAYS LL IS LESS THAN 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	SILTS AND CLAYS LL IS GREATER THAN 50	MH	Inorganic silts, micaceous of diatomaceous fine sandy or silty soils, elastic silts.
		CH	Inorganic clays of high plasticity, fat clays.
UNCLASSIFIED MATERIAL		NONE	Non-classified material (i.e. overburden, pavement, slag, etc.) Include visual description.

AI	Activity Index
LI	Liquidity Index
S+C	Silt + Clay (% finer than No. 200 Sieve)
○	Rockline Soundings
	Disturbed Sample Boring
	Undisturbed Sample Boring
	Undisturbed Sample Boring & Rock Core
●	Rock Core
□	Open Face Log
	Slope Inclinometer Installation typical applications:
OW	Observation Well
→	Approximate Footing Elevation
▼ (Date)	Water Elevation
VS (psf)	Field Vane Shear Strength
■	Thin-walled Tube Sample
<	Standard Penetration Test Sample
N	Penetration Resistance
Qu (psf)	Unconfined Compressive Strength
UU (psf)	Unconsolidated Undrained Triaxial Strength
w(%)	Moisture Content
KY RQD	Rock Quality Designation (Kentucky Method)
STD RQD	Rock Quality Designation (Standard Method)
SDI (JS)	Slake Durability Index (Jar Slake Test)
REC	Core Recovery
ϕ	Angle of Internal Friction (Total Stress)
$\overline{\phi}$	Angle of Internal Friction (Effective Stress)
c (psf)	Cohesion (Total Stress)
$\overline{c}$ (psf)	Cohesion (Effective Stress)
γ (psf)	Total Unit Weight
RDZ	Rock Disintegration Zone
OB	Overburden Bench
IB	Intermediate Bench
R	Refusal
NR	Refusal Not Encountered

LIMESTONE

SANDSTONE

DURABLE SHALE (SDI $\geq$ 95)

NONDURABLE SHALE (SDI < 95)

COAL

TALUS, MINE WASTE, FILL MATERIAL, BOULDERS, & ETC.

GRANULAR EMBANKMENT

STRUCTURE GRANULAR BACKFILL

SLOPE PROTECTION

GEOTECHNICAL LEGEND

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R206OGT.DGN
USER: 1staggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R206LGGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R207

Field Drilling and Sampling were performed in October, 2000.

Detailed data and interpretation of subsurface conditions encountered in individual borings are shown on the soil profile. Soil and rock strata descriptions and indicated boundaries are based on engineering interpretation of available subsurface information obtained at selected locations, and may not necessarily reflect the actual variation in subsurface conditions between borings and samples.

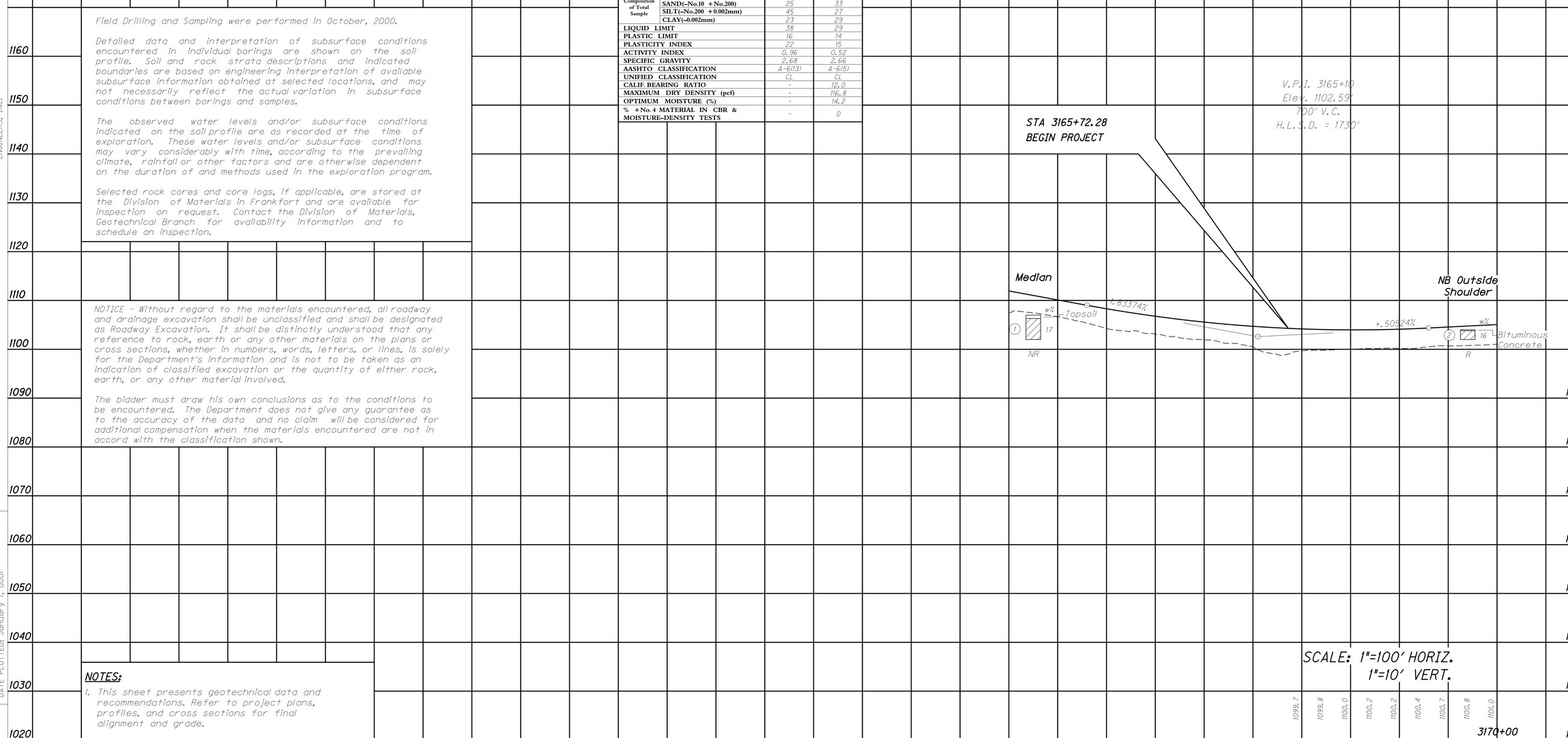
The observed water levels and/or subsurface conditions indicated on the soil profile are as recorded at the time of exploration. These water levels and/or subsurface conditions may vary considerably with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the exploration program.

Selected rock cores and core logs, if applicable, are stored at the Division of Materials in Frankfort and are available for inspection on request. Contact the Division of Materials, Geotechnical Branch for availability information and to schedule an inspection.

NOTICE - Without regard to the materials encountered, all roadway and drainage excavation shall be unclassified and shall be designated as Roadway Excavation. It shall be distinctly understood that any reference to rock, earth or any other materials on the plans or cross sections, whether in numbers, words, letters, or lines, is solely for the Department's information and is not to be taken as an indication of classified excavation or the quantity of either rock, earth, or any other material involved.

The bidder must draw his own conclusions as to the conditions to be encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation when the materials encountered are not in accord with the classification shown.

SAMPLE NO.		1	2
STATION		3160+50	3169+40
OFFSET		Median	NB Outside
DEPTH		0.7'-5.0'	0.2'-2.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	7	11
	SAND(-No.10 +No.200)	25	33
	SILT(-No.200 +0.002mm)	45	27
	CLAY(-0.002mm)	23	29
LIQUID LIMIT		38	29
PLASTIC LIMIT		16	14
PLASTICITY INDEX		22	15
ACTIVITY INDEX		0.96	0.52
SPECIFIC GRAVITY		2.68	2.66
AASHTO CLASSIFICATION		A-6(13)	A-6(5)
UNIFIED CLASSIFICATION		CL	CL
CALIF. BEARING RATIO		-	12.0
MAXIMUM DRY DENSITY (pcf)		-	116.8
OPTIMUM MOISTURE (%)		-	14.2
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	0



SCALE: 1"=100' HORIZ.
1"=10' VERT.

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF
ROCKCASTLE

PROJECT NUMBERS

DATE BY PROJECT MANAGER

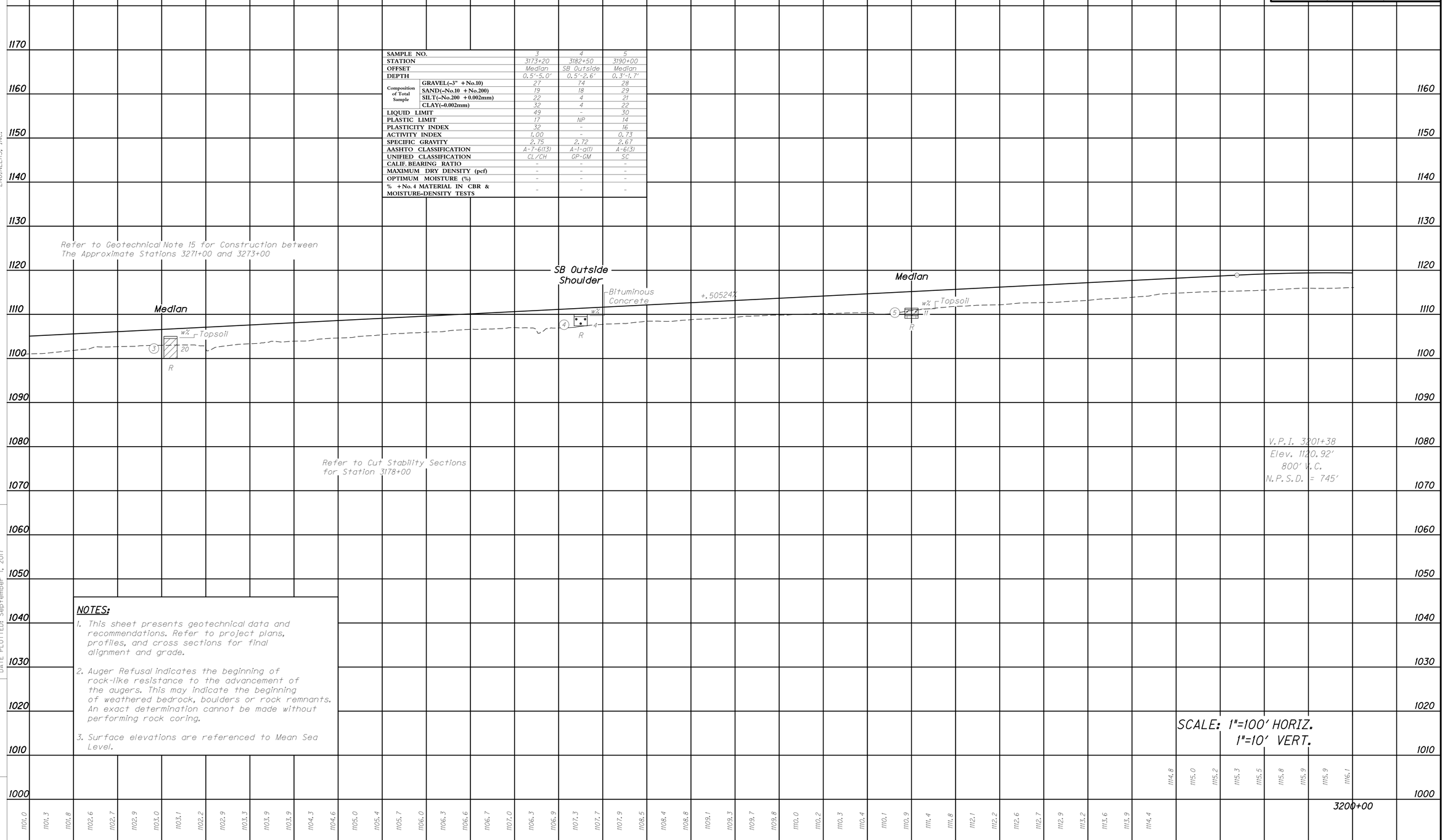
MAINLINE SOIL PROFILE

STATION 3165+00 TO STATION 3170+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R207OOGT.DGN
USER: lstoggs DATE PLOTTED: January 1, 0001
E-SHEET NAME: R207PROT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R208

SAMPLE NO.		3	4	5
STATION		3173+20	3182+50	3190+00
OFFSET		Median	SB Outside	Median
DEPTH		0.5'-5.0'	0.5'-2.6'	0.3'-1.7'
Composition of Total Sample	GRAVEL(-3" +No.10)	27	74	28
	SAND(-No.10 +No.200)	19	18	29
	SILT(-No.200 +0.002mm)	22	4	21
	CLAY(-0.002mm)	32	4	22
LIQUID LIMIT		49	-	30
PLASTIC LIMIT		17	NP	14
PLASTICITY INDEX		32	-	16
ACTIVITY INDEX		1.00	-	0.73
SPECIFIC GRAVITY		2.75	2.72	2.67
AASHTO CLASSIFICATION		A-7-6(13)	A-1-a(1)	A-6(3)
UNIFIED CLASSIFICATION		CL/CH	GP-GM	SC
CALIF. BEARING RATIO		-	-	-
MAXIMUM DRY DENSITY (pcf)		-	-	-
OPTIMUM MOISTURE (%)		-	-	-
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	-	-



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

MAINLINE SOIL PROFILE

STATION 3170+00 TO STATION 3200+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001

FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R208GOGT.DGN

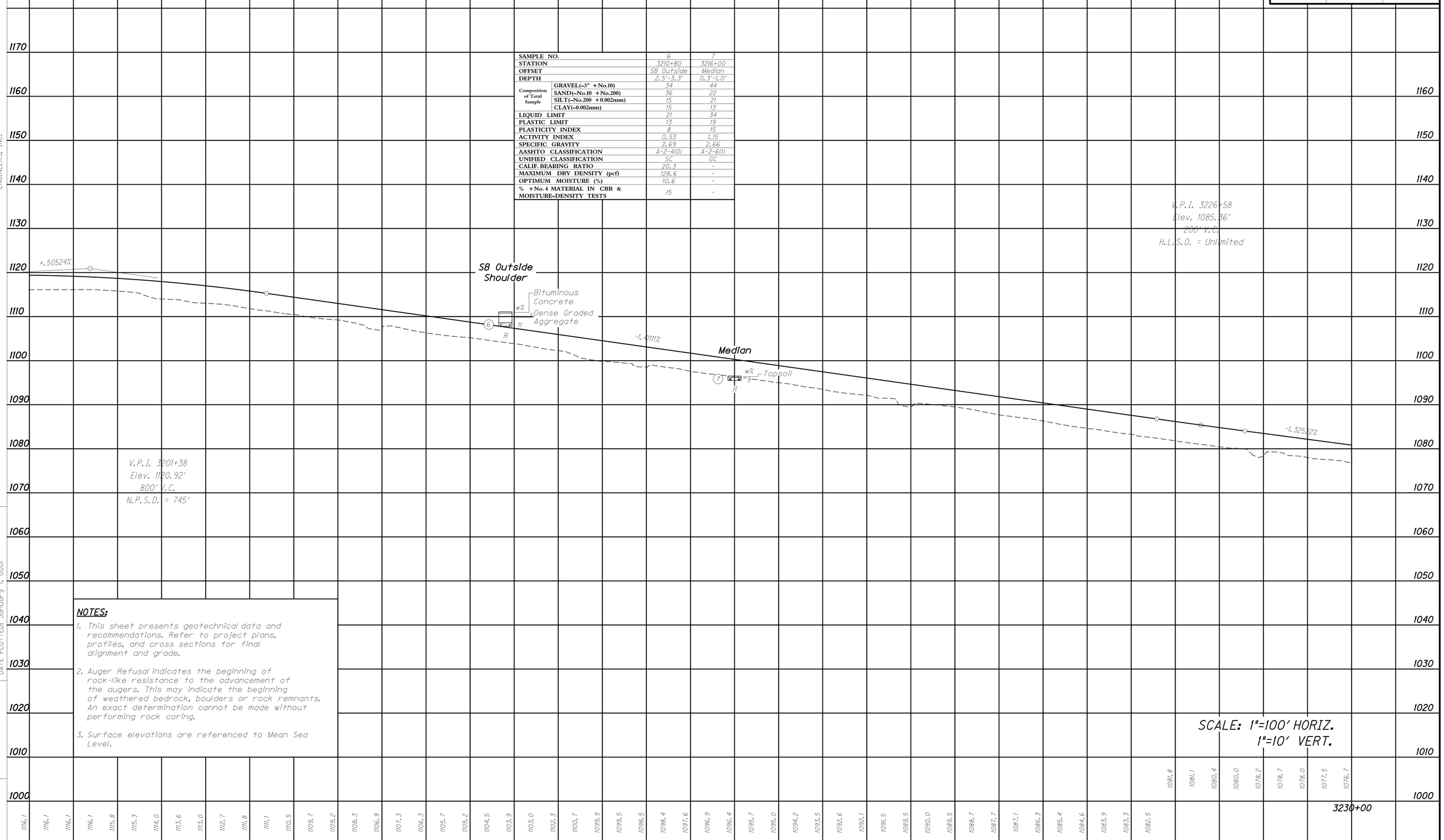
USER: lstoggs
DATE PLOTTED: September 1, 2017

E-SHEET NAME: R208PRGT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R209

SAMPLE NO.		6	7
STATION		3210+80	3216+00
OFFSET		SB Outside	Median
DEPTH		2.5'-3.3'	0.3'-1.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	34	44
	SAND(-No.10 +No.200)	36	22
	SILT(-No.200 +0.002mm)	15	21
	CLAY(-0.002mm)	15	13
LIQUID LIMIT		21	34
PLASTIC LIMIT		13	19
PLASTICITY INDEX		8	15
ACTIVITY INDEX		0.53	1.15
SPECIFIC GRAVITY		2.69	2.66
AASHTO CLASSIFICATION		A-2-4(0)	A-2-6(1)
UNIFIED CLASSIFICATION		SC	GC
CALIF. BEARING RATIO		20.3	-
MAXIMUM DRY DENSITY (pcf)		128.6	-
OPTIMUM MOISTURE (%)		10.6	-
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		15	-



NOTES:

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SCALE: 1"=100' HORIZ.
1"=10' VERT.

MAINLINE SOIL PROFILE

STATION 3200+00 TO STATION 3230+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.

DATE: OCTOBER, 2001

FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R209000GT.DGN

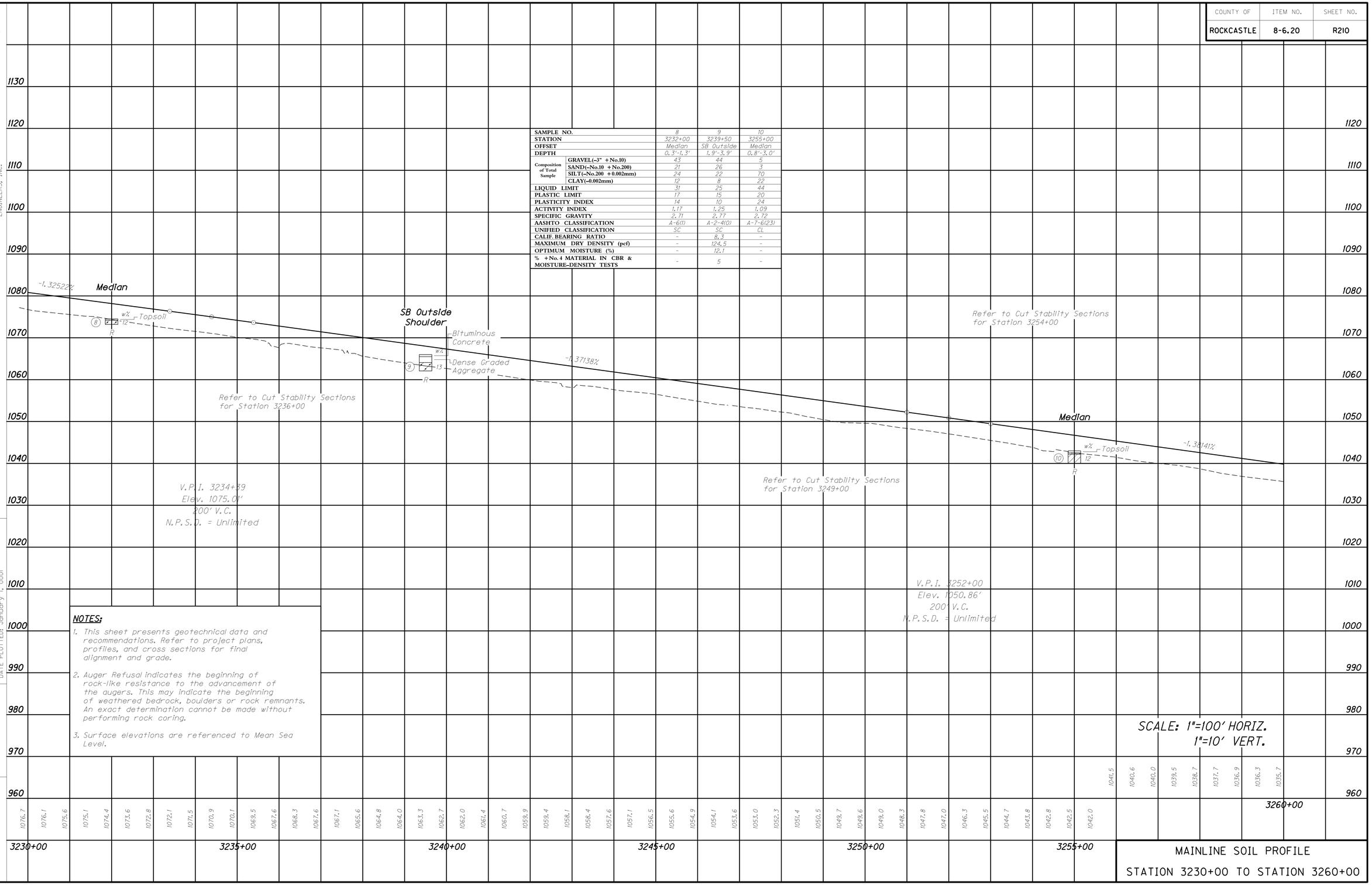
USER: lstaggs
DATE PLOTTED: January 1, 0001

E-SHEET NAME: R209PRGT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R210

SAMPLE NO.		8	9	10
STATION		3232+00	3239+50	3255+00
OFFSET		Median	SB Outside	Median
DEPTH		0.3'-1.3'	1.9'-3.9'	0.8'-3.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	43	44	5
	SAND(-No.10 +No.200)	21	26	3
	SILT(-No.200 +0.002mm)	24	22	70
	CLAY(-0.002mm)	12	8	22
LIQUID LIMIT		31	25	44
PLASTIC LIMIT		17	15	20
PLASTICITY INDEX		14	10	24
ACTIVITY INDEX		1.17	1.25	1.09
SPECIFIC GRAVITY		2.71	2.77	2.72
AASHTO CLASSIFICATION		A-6(11)	A-2-4(0)	A-7-6(23)
UNIFIED CLASSIFICATION		SC	SC	CL
CALIF. BEARING RATIO		-	8.3	-
MAXIMUM DRY DENSITY (pcf)		-	124.5	-
OPTIMUM MOISTURE (%)		-	12.1	-
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	5	-



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

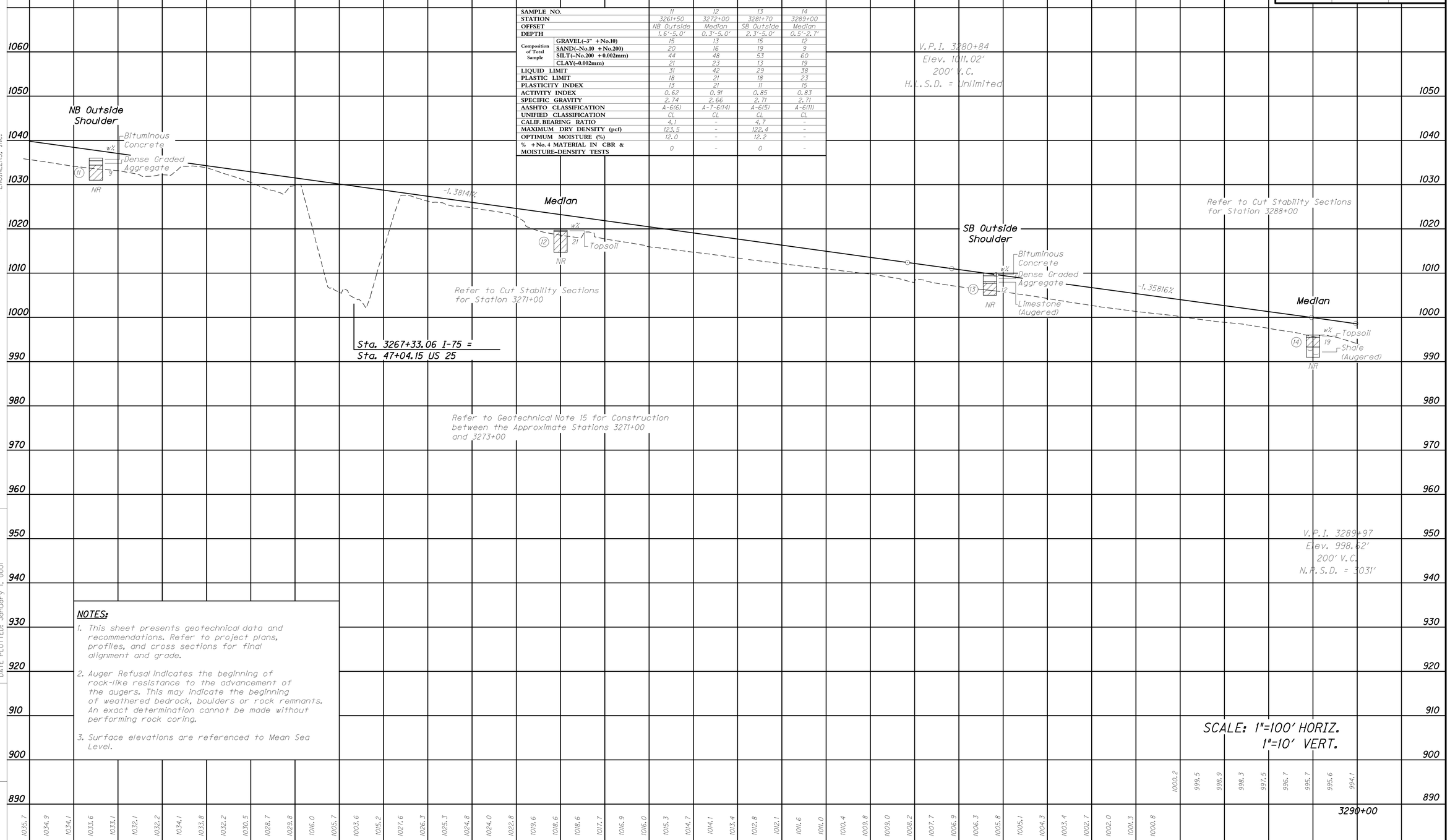
MAINLINE SOIL PROFILE

STATION 3230+00 TO STATION 3260+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R210GGT.DGN
USER: lstaggs DATE PLOTTED: January 1, 0001
E-SHEET NAME: R210PRGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R211

SAMPLE NO.		11	12	13	14
STATION		3261+50	3272+00	3281+70	3289+00
OFFSET		NB Outside	Median	SB Outside	Median
DEPTH		1.6'-5.0'	0.3'-5.0'	2.3'-5.0'	0.5'-2.7'
Composition of Total Sample	GRAVEL(-3" +No.10)	15	13	15	12
	SAND(-No.10 +No.200)	20	16	19	9
	SILT(-No.200 +0.002mm)	44	48	53	60
	CLAY(-0.002mm)	21	23	13	19
LIQUID LIMIT		31	42	29	38
PLASTIC LIMIT		18	21	18	23
PLASTICITY INDEX		13	21	11	15
ACTIVITY INDEX		0.62	0.91	0.85	0.83
SPECIFIC GRAVITY		2.74	2.66	2.71	2.71
AASHTO CLASSIFICATION		A-6(6)	A-7-6(14)	A-6(5)	A-6(11)
UNIFIED CLASSIFICATION		CL	CL	CL	CL
CALIF. BEARING RATIO		4.1	-	4.7	-
MAXIMUM DRY DENSITY (pcf)		123.5	-	122.4	-
OPTIMUM MOISTURE (%)		12.0	-	12.2	-
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	-	0	-



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

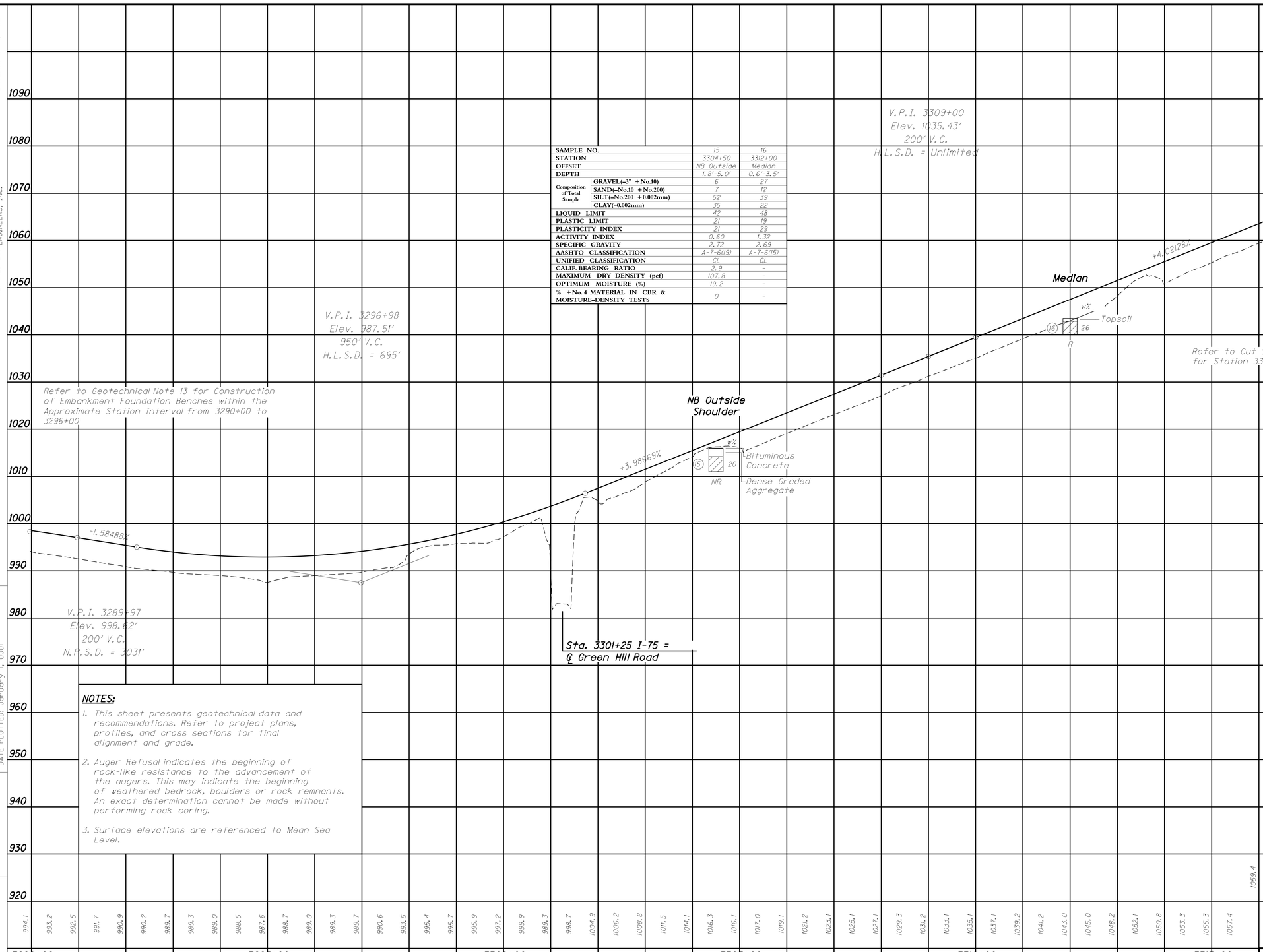
MAINLINE SOIL PROFILE

STATION 3260+00 TO STATION 3290+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R211000T.DGN
USER: lstaggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R211PRGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R212

SAMPLE NO.		15	16
STATION		3304+50	3312+00
OFFSET		NB Outside	Median
DEPTH		1.8'-5.0'	0.6'-3.5'
Composition of Total Sample	GRAVEL(-3" +No.10)	6	27
	SAND(-No.10 +No.200)	7	12
	SILT(-No.200 +0.002mm)	52	39
	CLAY(-0.002mm)	35	22
LIQUID LIMIT		42	48
PLASTIC LIMIT		21	19
PLASTICITY INDEX		21	29
ACTIVITY INDEX		0.60	1.32
SPECIFIC GRAVITY		2.72	2.69
AASHTO CLASSIFICATION		A-7-6(19)	A-7-6(15)
UNIFIED CLASSIFICATION		CL	CL
CALIF. BEARING RATIO		2.9	-
MAXIMUM DRY DENSITY (pcf)		107.8	-
OPTIMUM MOISTURE (%)		19.2	-
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	-



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

MAINLINE SOIL PROFILE

STATION 3290+00 TO STATION 3320+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R212OGT.DGN

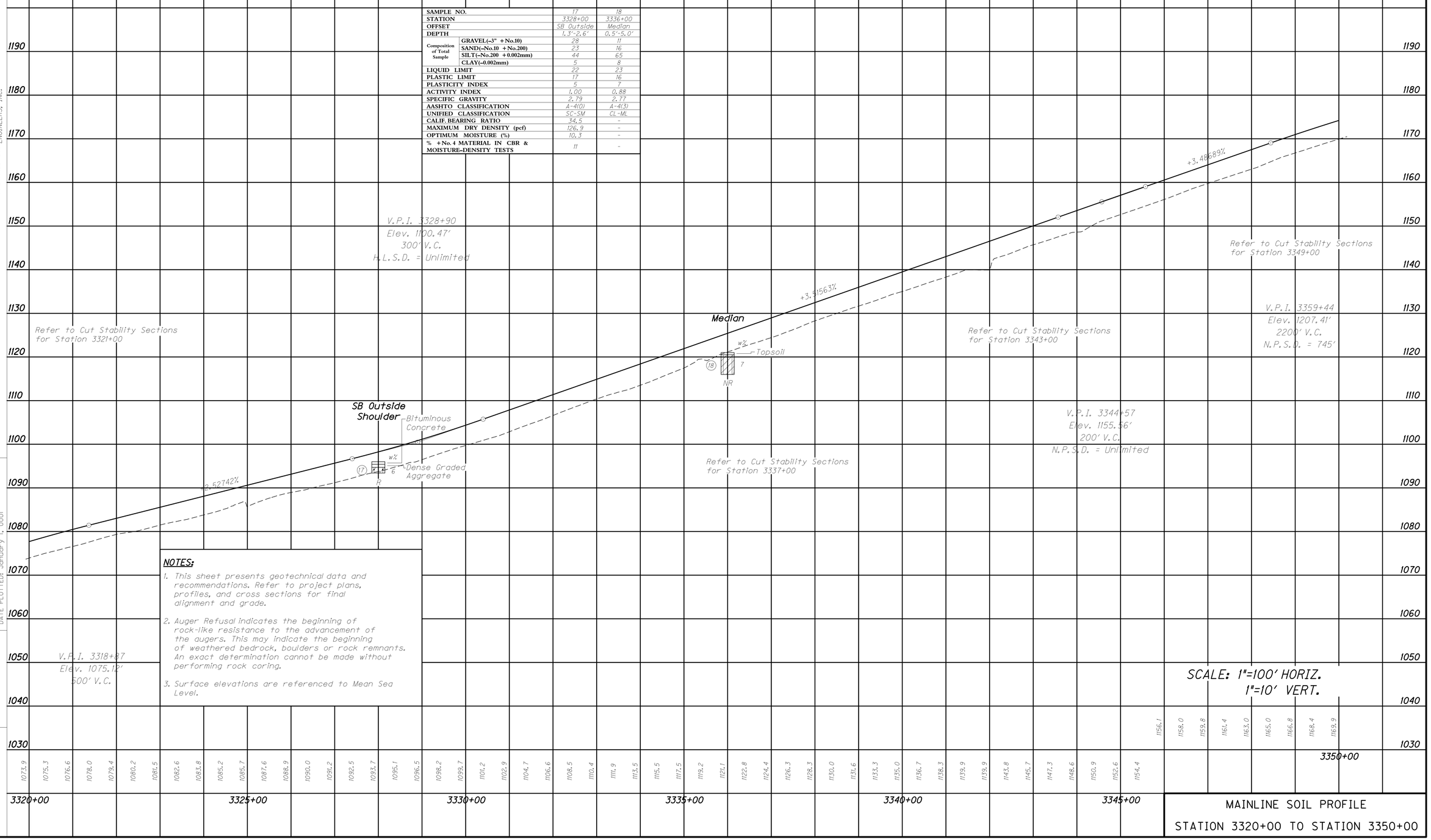
USER: lstaggs DATE PLOTTED: January 1, 0001

E-SHEET NAME: R212PRGT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R213

SAMPLE NO.		17	18
STATION		3328+00	3336+00
OFFSET		SB Outside	Median
DEPTH		1.3'-2.6'	0.5'-5.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	28	11
	SAND(-No.10 +No.200)	23	16
	SILT(-No.200 +0.002mm)	44	65
	CLAY(-0.002mm)	5	8
LIQUID LIMIT		22	23
PLASTIC LIMIT		17	16
PLASTICITY INDEX		5	7
ACTIVITY INDEX		1.00	0.88
SPECIFIC GRAVITY		2.79	2.77
AASHTO CLASSIFICATION		A-4(0)	A-4(3)
UNIFIED CLASSIFICATION		SC-SM	CL-ML
CALIF. BEARING RATIO		34.5	-
MAXIMUM DRY DENSITY (pcf)		126.9	-
OPTIMUM MOISTURE (%)		10.3	-
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		11	-



NOTES:

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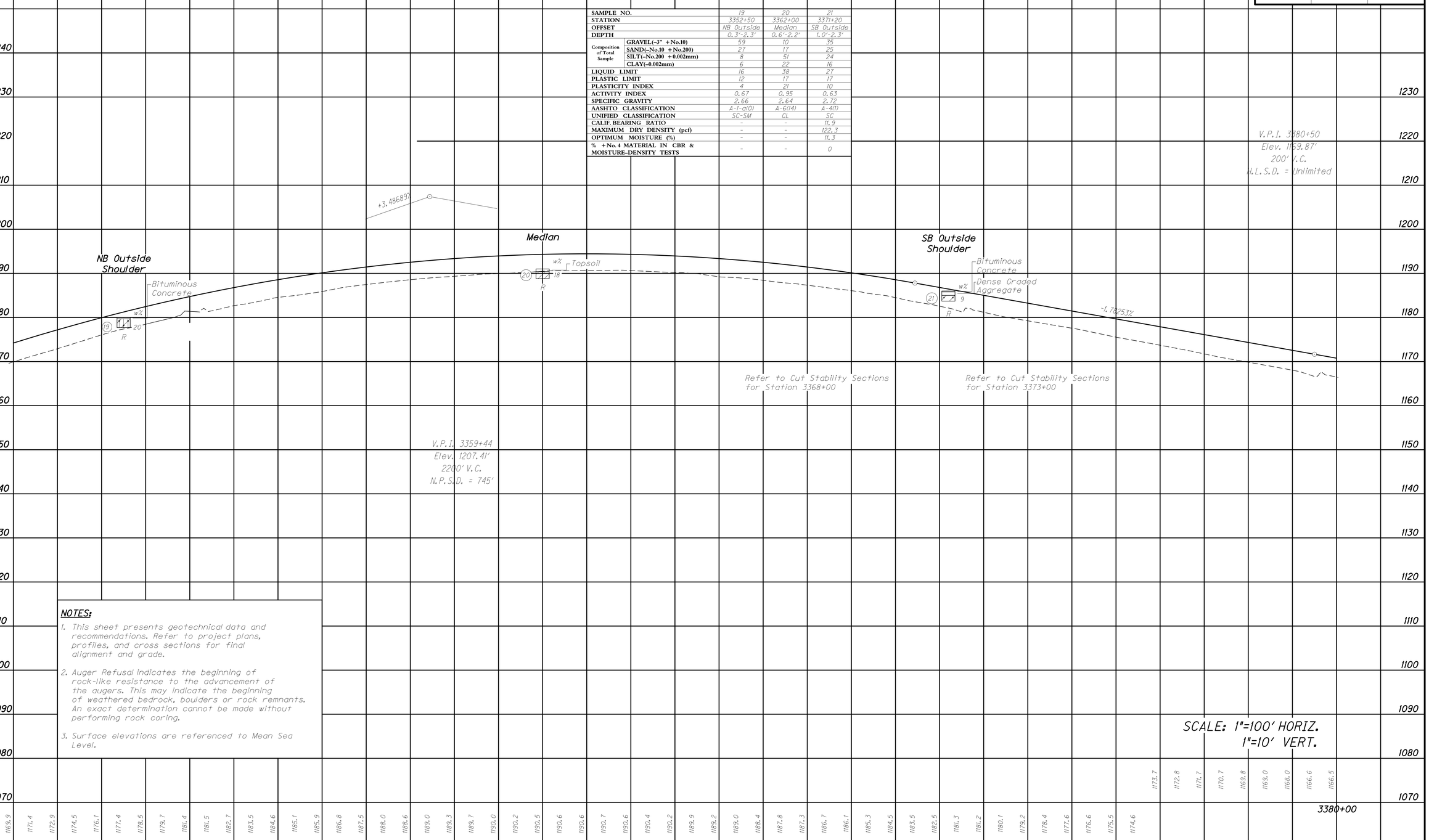
MAINLINE SOIL PROFILE

STATION 3320+00 TO STATION 3350+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R213OGT.DGN
USER: lstaggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R213PROT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R214

SAMPLE NO.		19	20	21
STATION		3352+50	3362+00	3371+20
OFFSET		NB Outside	Median	SB Outside
DEPTH		0.3'-2.3'	0.6'-2.2'	1.0'-2.3'
Composition of Total Sample	GRAVEL(-3" +No.10)	59	10	35
	SAND(-No.10 +No.200)	27	17	25
	SILT(-No.200 +0.002mm)	8	51	24
	CLAY(-0.002mm)	6	22	16
LIQUID LIMIT		16	38	27
PLASTIC LIMIT		12	17	17
PLASTICITY INDEX		4	21	10
ACTIVITY INDEX		0.67	0.95	0.63
SPECIFIC GRAVITY		2.66	2.64	2.72
AASHTO CLASSIFICATION		A-1-a(0)	A-6(14)	A-4(1)
UNIFIED CLASSIFICATION		SC-SM	CL	SC
CALIF. BEARING RATIO		-	-	11.9
MAXIMUM DRY DENSITY (pcf)		-	-	122.3
OPTIMUM MOISTURE (%)		-	-	11.3
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	-	0



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

MAINLINE SOIL PROFILE

STATION 3350+00 TO STATION 3380+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

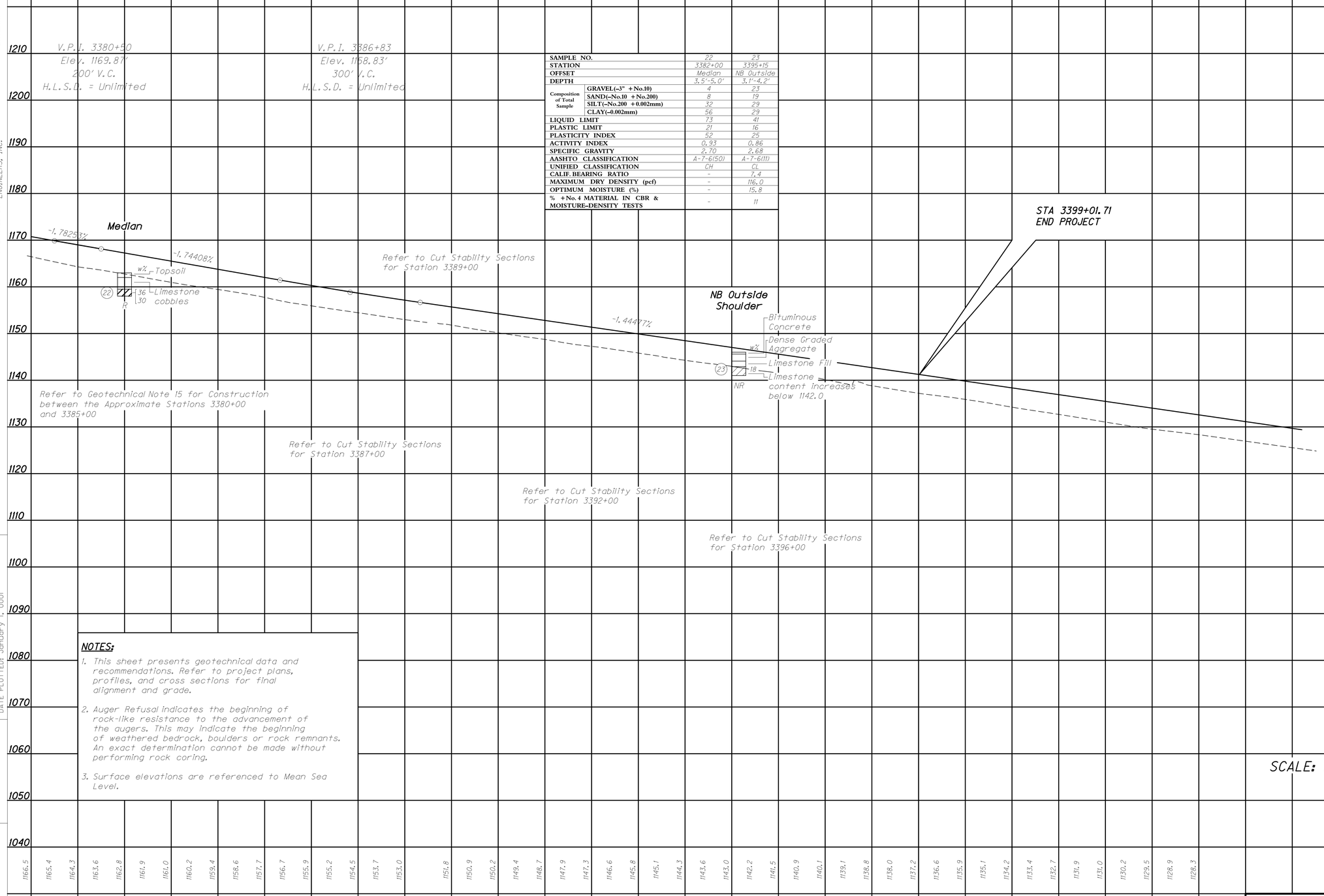
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R214GEOT.DGN

USER: lstaggs DATE PLOTTED: January 1, 0001

E-SHEET NAME: R214PROT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R215



SAMPLE NO.		22	23
STATION		3382+00	3395+15
OFFSET		Median	NB Outside
DEPTH		3.5'-5.0'	3.1'-4.2'
Composition of Total Sample	GRAVEL(-3" +No.10)	4	23
	SAND(-No.10 +No.200)	8	19
	SILT(-No.200 +0.002mm)	32	29
	CLAY(-0.002mm)	56	29
LIQUID LIMIT		73	41
PLASTIC LIMIT		21	16
PLASTICITY INDEX		52	25
ACTIVITY INDEX		0.93	0.86
SPECIFIC GRAVITY		2.70	2.68
AASHTO CLASSIFICATION		A-7-6(50)	A-7-6(11)
UNIFIED CLASSIFICATION		CH	CL
CALIF. BEARING RATIO		-	7.4
MAXIMUM DRY DENSITY (pcf)		-	116.0
OPTIMUM MOISTURE (%)		-	15.8
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	11

NOTES:

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SCALE: 1"=100' HORIZ.
1"=10' VERT.

MAINLINE SOIL PROFILE

STATION 3380+00 TO STATION 3410+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001

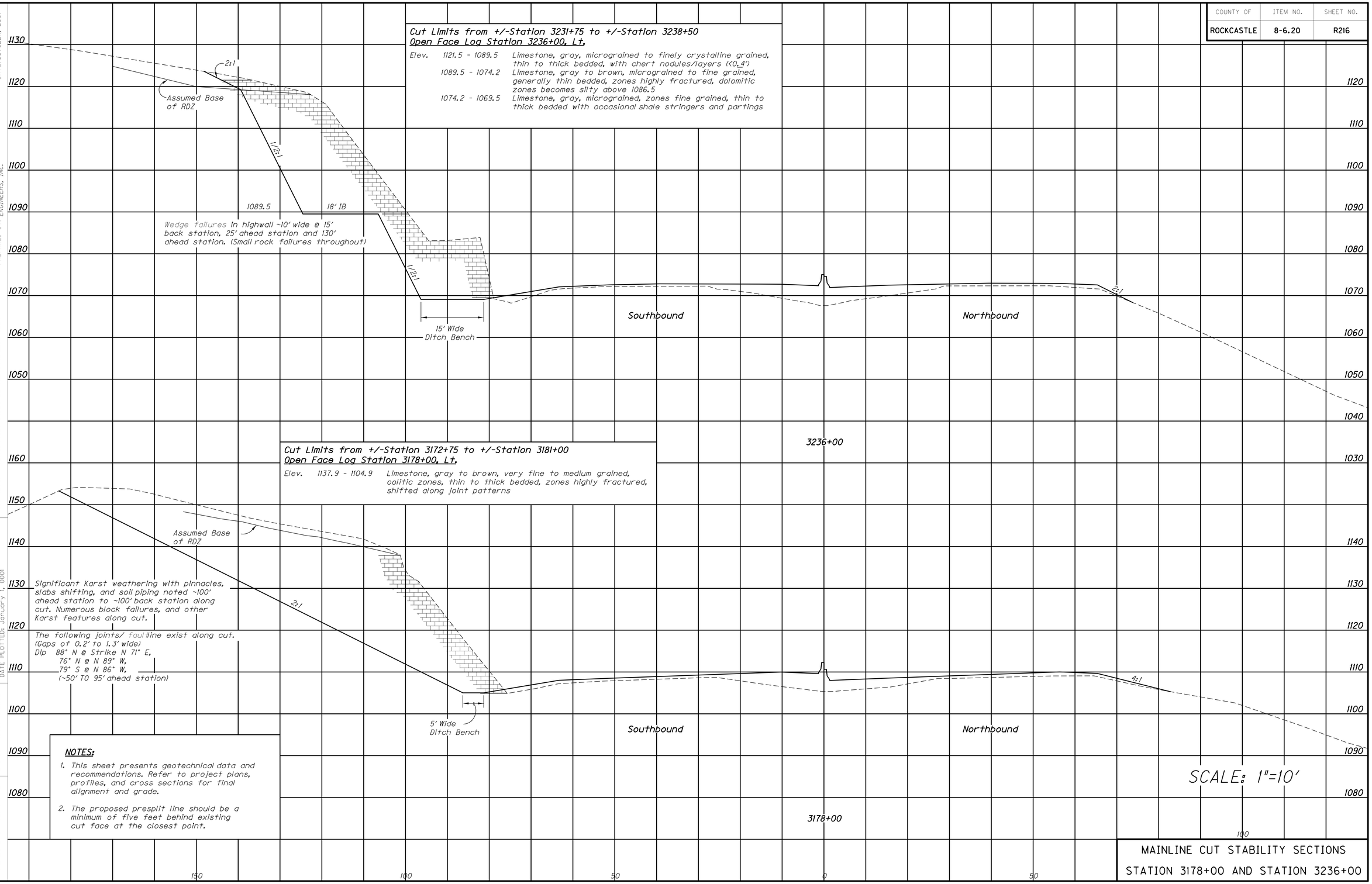
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R215OGCT.DGN

USER: lstaggs
DATE PLOTTED: January 1, 0001

E-SHEET NAME: R215PRGT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R216



SCALE: 1"=10'

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

MAINLINE CUT STABILITY SECTIONS

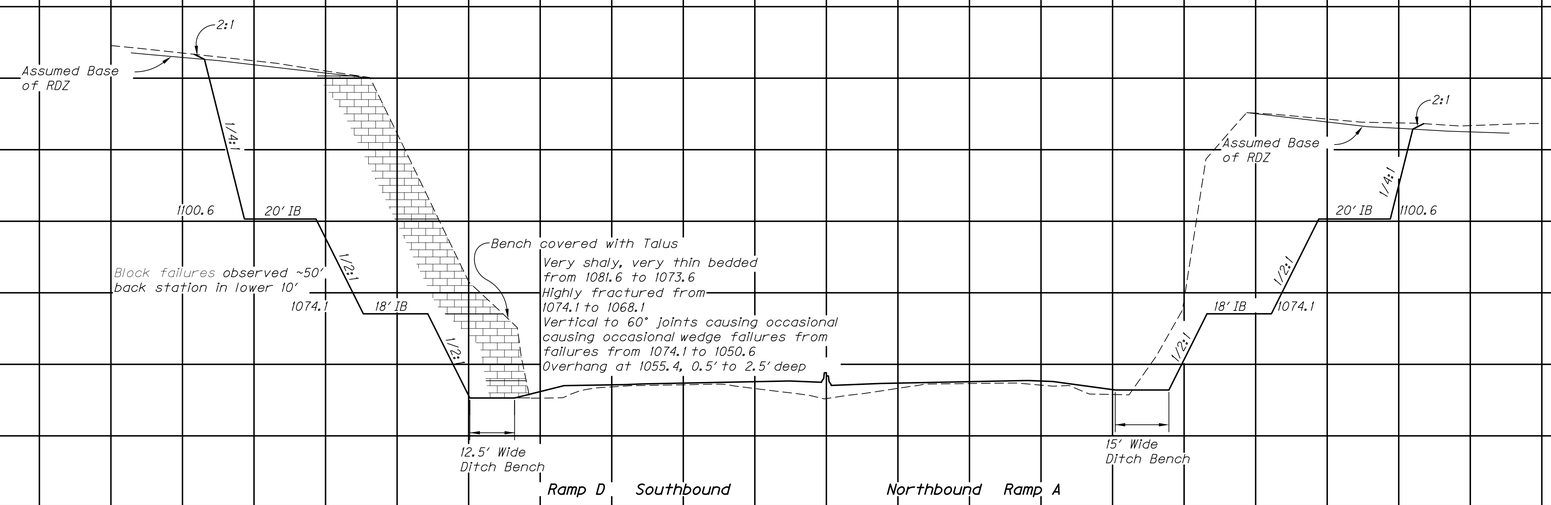
STATION 3178+00 AND STATION 3236+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R216OOGT.DGN
USER: lstaggs DATE PLOTTED: January 1, 0001
E-SHEET NAME: R216XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R217

Cut Limits from +/-Station 3243+75 to +/-Station 3254+50
Open Face Log Station 3249+00, Lt.

Elev.	1140.6 - 1100.6	Limestone, gray, fine grained, silty, thin to medium bedded, zones slightly dolomitic
	1100.6 - 1074.1	Limestone, light brown to yellow-brown, fine grained (silty), thin to thick bedded, dolomitic, with shale partings and shaly zones
	1074.1 - 1055.4	Limestone, gray to brown, micrograined to fine grained, thin to thick bedded, dolomitic zones with occasional shale partings and layers (<0.4')
	1055.4 - 1050.6	Limestone (Dolomite), light gray, silty, thin to thick bedded, portions blocky, dolomitic, fractured throughout



NOTES:

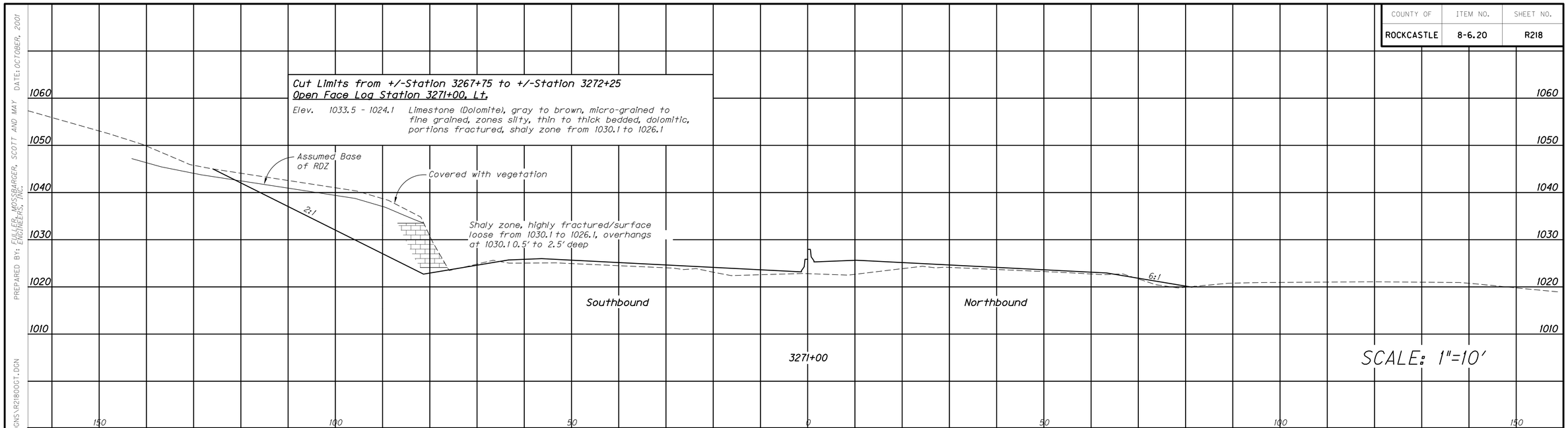
1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

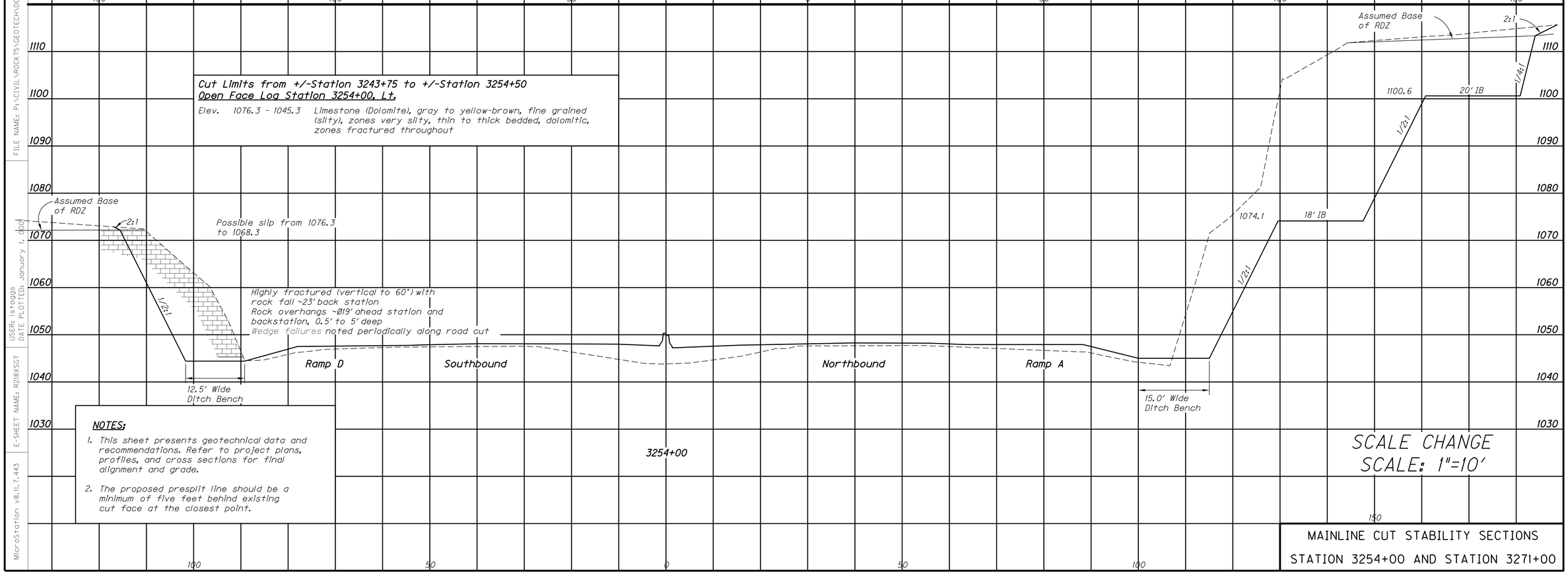
SCALE CHANGE
SCALE: 1"=20'

MAINLINE CUT STABILITY SECTION
STATION 3249+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R217OGT.DGN
USER: lstaggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R217XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R218





NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

MAINLINE CUT STABILITY SECTIONS

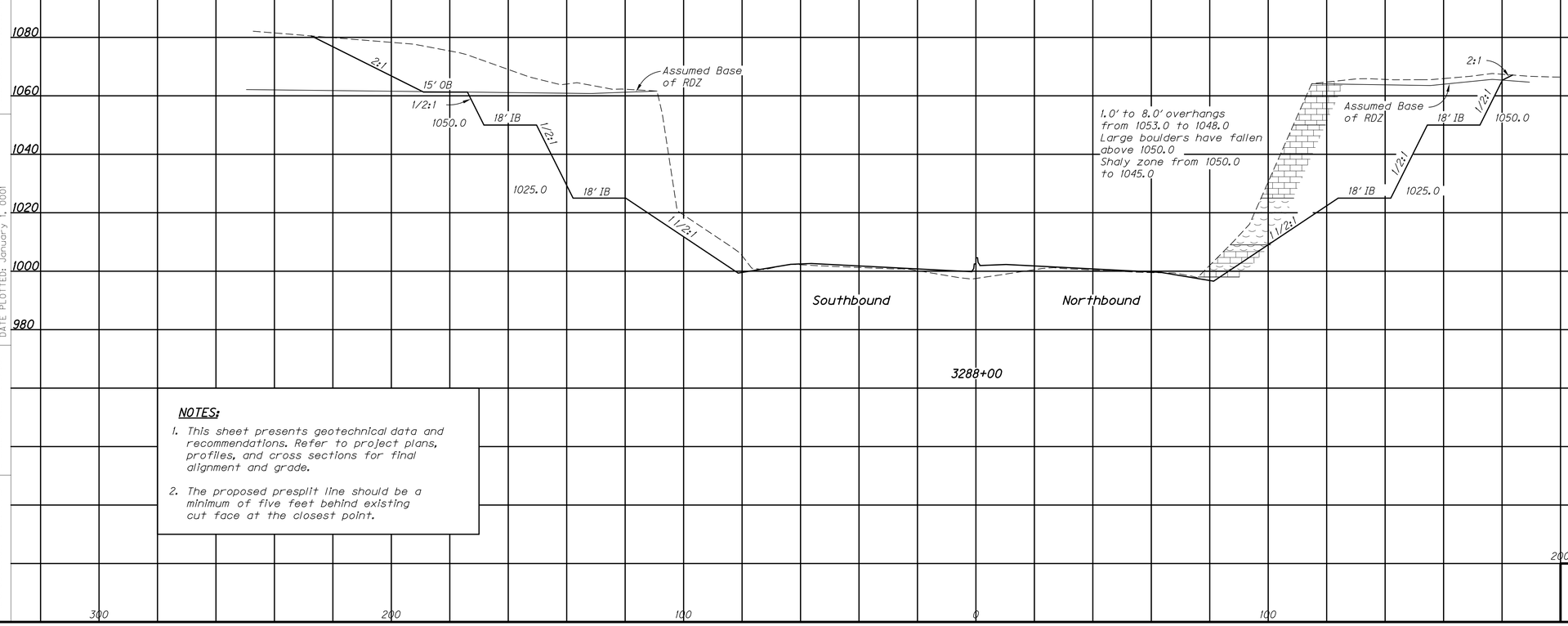
STATION 3254+00 AND STATION 3271+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R218OGT.DGN
USER: lstaggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R218XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R219

Cut Limits from +/-Station 3280+50 to +/-Station 3289+50
Open Face Log Station 3288+00, Rt.

Elev.	1066.0 - 1050.0	Limestone (Dolomite), gray to light yellow brown, fine grained, silty, zones very silty, thin to massive bedded, dolomitic, fine to coarse grained, with occasional sandstone layers.
	1050.0 - 1025.0	Limestone, gray to orange-brown, micrograined to fine grained, thin to massive bedded, dolomitic, zones argillaceous
	1025.0 - 1009.0	Shale, green-gray, silty, calcareous, with thin limestone layers, visually determined non-durable shale II.
	1009.0 - 998.0	Limestone (50%) interbedded with Shale (50%)
		Limestone, gray to brown, micrograined to fine grained, shaly
		Shale, gray to green-gray, silty, calcareous



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

SCALE CHANGE
SCALE: 1"=20'

MAINLINE CUT STABILITY SECTIONS

STATION 3288+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

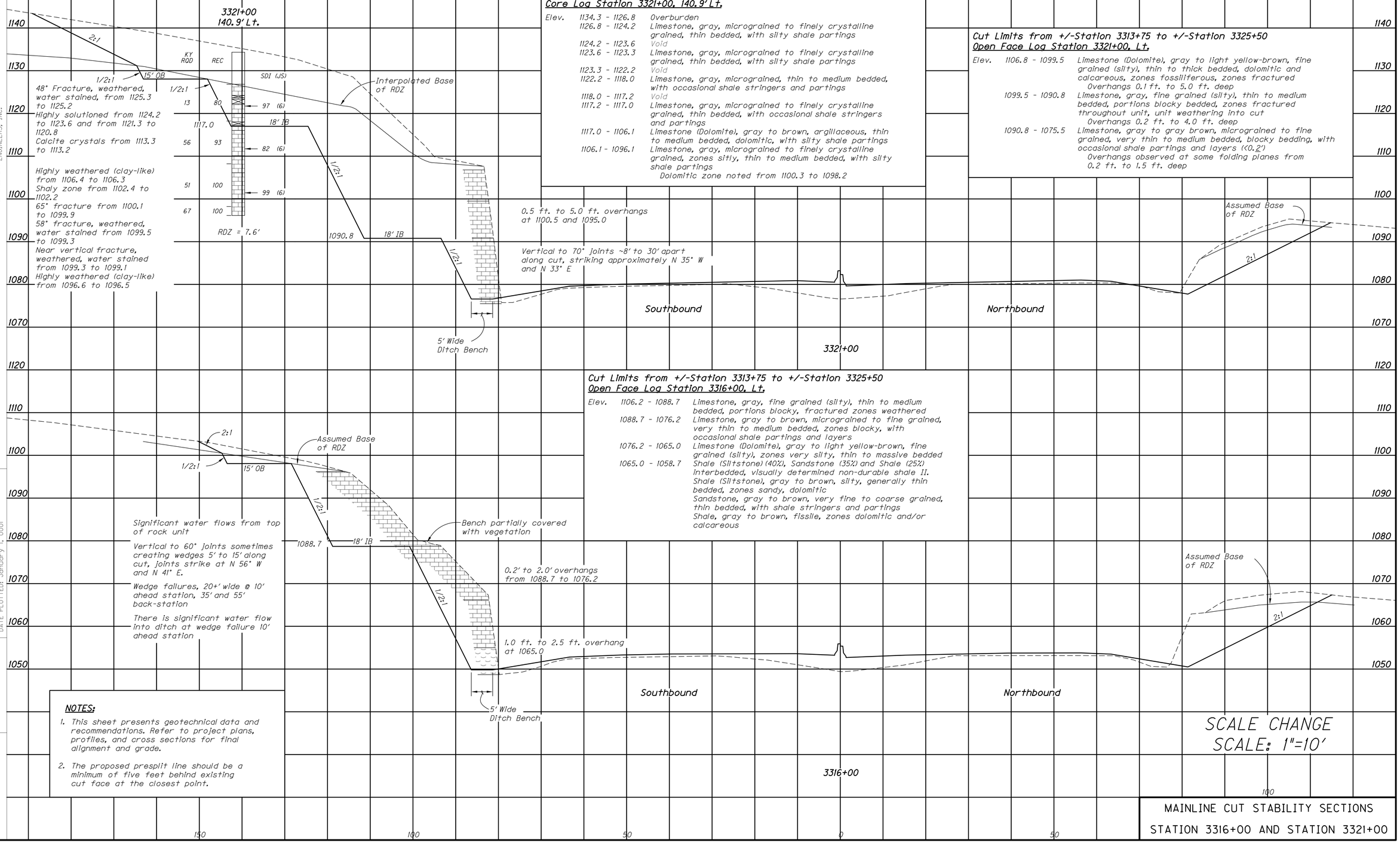
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R219OGT.DGN

USER: lstoggs DATE PLOTTED: January 1, 0001

E-SHEET NAME: R219XSGT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R220



Cut Limits from +/-Station 3313+75 to +/-Station 3325+50
Core Log Station 3321+00, 140.9' Lt.

Elev.		
	1134.3 - 1126.8	Overburden
	1126.8 - 1124.2	Limestone, gray, micrograined to finely crystalline grained, thin bedded, with silty shale partings
	1124.2 - 1123.6	Void
	1123.6 - 1123.3	Limestone, gray, micrograined to finely crystalline grained, thin bedded, with silty shale partings
	1123.3 - 1122.2	Void
	1122.2 - 1118.0	Limestone, gray, micrograined, thin to medium bedded, with occasional shale stringers and partings
	1118.0 - 1117.2	Void
	1117.2 - 1117.0	Limestone, gray, micrograined to finely crystalline grained, thin bedded, with occasional shale stringers and partings
	1117.0 - 1106.1	Limestone (Dolomite), gray to brown, argillaceous, thin to medium bedded, dolomitic, with silty shale partings
	1106.1 - 1096.1	Limestone, gray, micrograined to finely crystalline grained, zones sitly, thin to medium bedded, with silty shale partings Dolomitic zone noted from 1100.3 to 1098.2

Cut Limits from +/-Station 3313+75 to +/-Station 3325+50
Open Face Log Station 3321+00, Lt.

Elev.		
	1106.8 - 1099.5	Limestone (Dolomite), gray to light yellow-brown, fine grained (silty), thin to thick bedded, dolomitic and calcareous, zones fossiliferous, zones fractured Overhangs 0.1 ft. to 5.0 ft. deep
	1099.5 - 1090.8	Limestone, gray, fine grained (silty), thin to medium bedded, portions blocky bedded, zones fractured throughout unit, unit weathering into cut Overhangs 0.2 ft. to 4.0 ft. deep
	1090.8 - 1075.5	Limestone, gray to gray brown, micrograined to fine grained, very thin to medium bedded, blocky bedding, with occasional shale partings and layers (<0.2') Overhangs observed at some folding planes from 0.2 ft. to 1.5 ft. deep

NOTES:

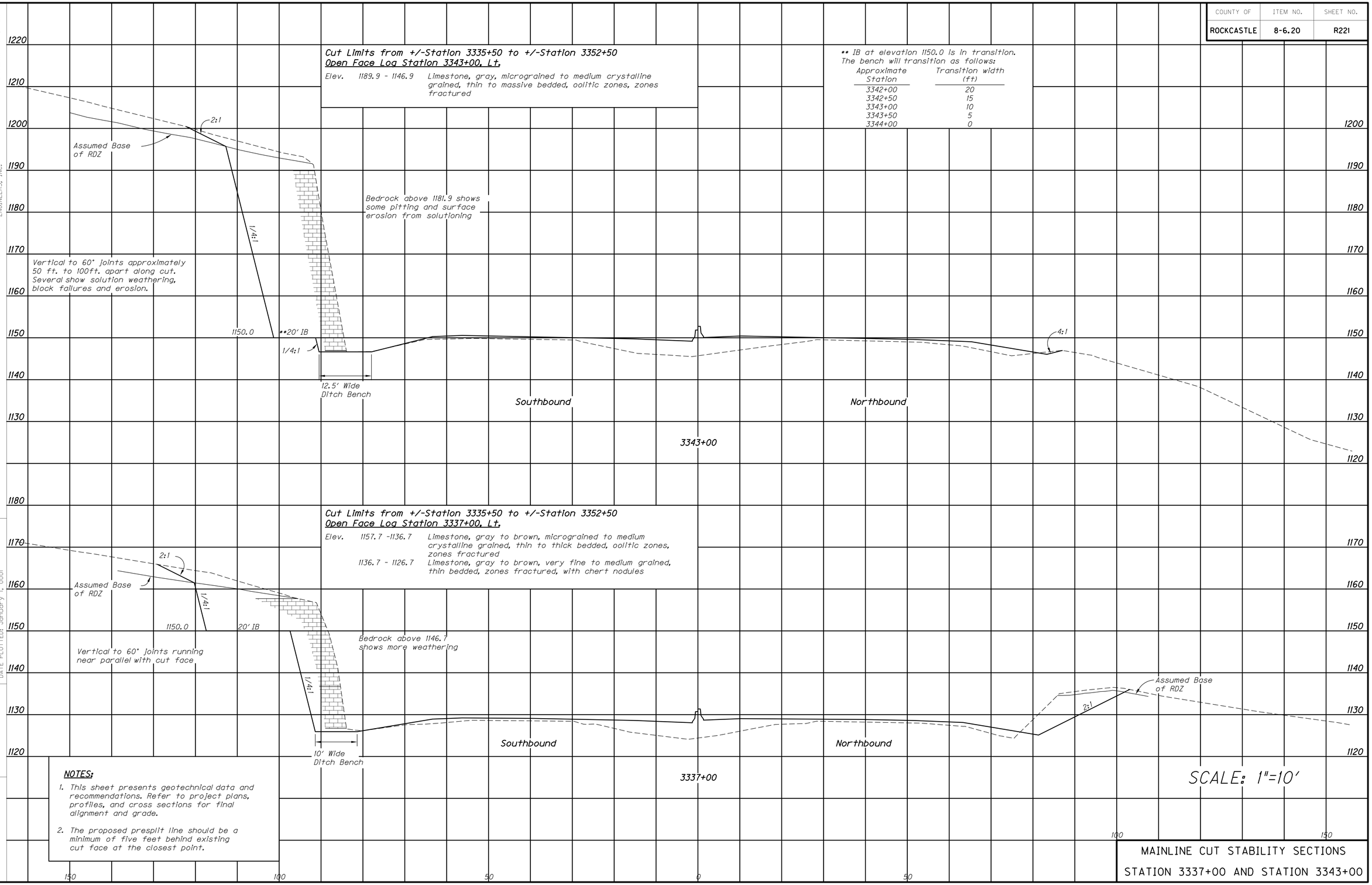
1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

MAINLINE CUT STABILITY SECTIONS

STATION 3316+00 AND STATION 3321+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R220OOGT.DGN
USER: lstoggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R220XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R221



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

MAINLINE CUT STABILITY SECTIONS

STATION 3337+00 AND STATION 3343+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R221OGT.DGN

USER: lstaggs DATE PLOTTED: January 1, 0001

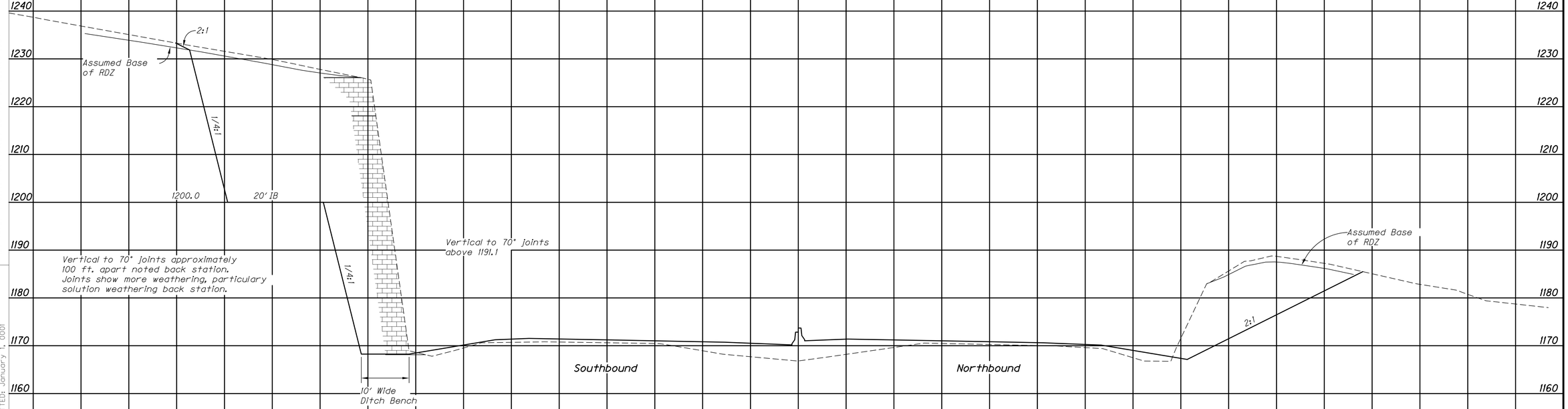
E-SHEET NAME: R221XSGT

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R222

Cut Limits from +/-Station 3335+50 to +/-Station 3352+50
Open Face Log Station 3349+00, Lt.

Elev.	1226.1 - 1218.1	Limestone, gray, micrograined to medium crystalline grained, thin to medium bedded, oolitic zones
	1218.1 - 1168.1	Limestone, gray, micrograined to medium crystalline grained, thin to massive bedded, oolitic zones



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

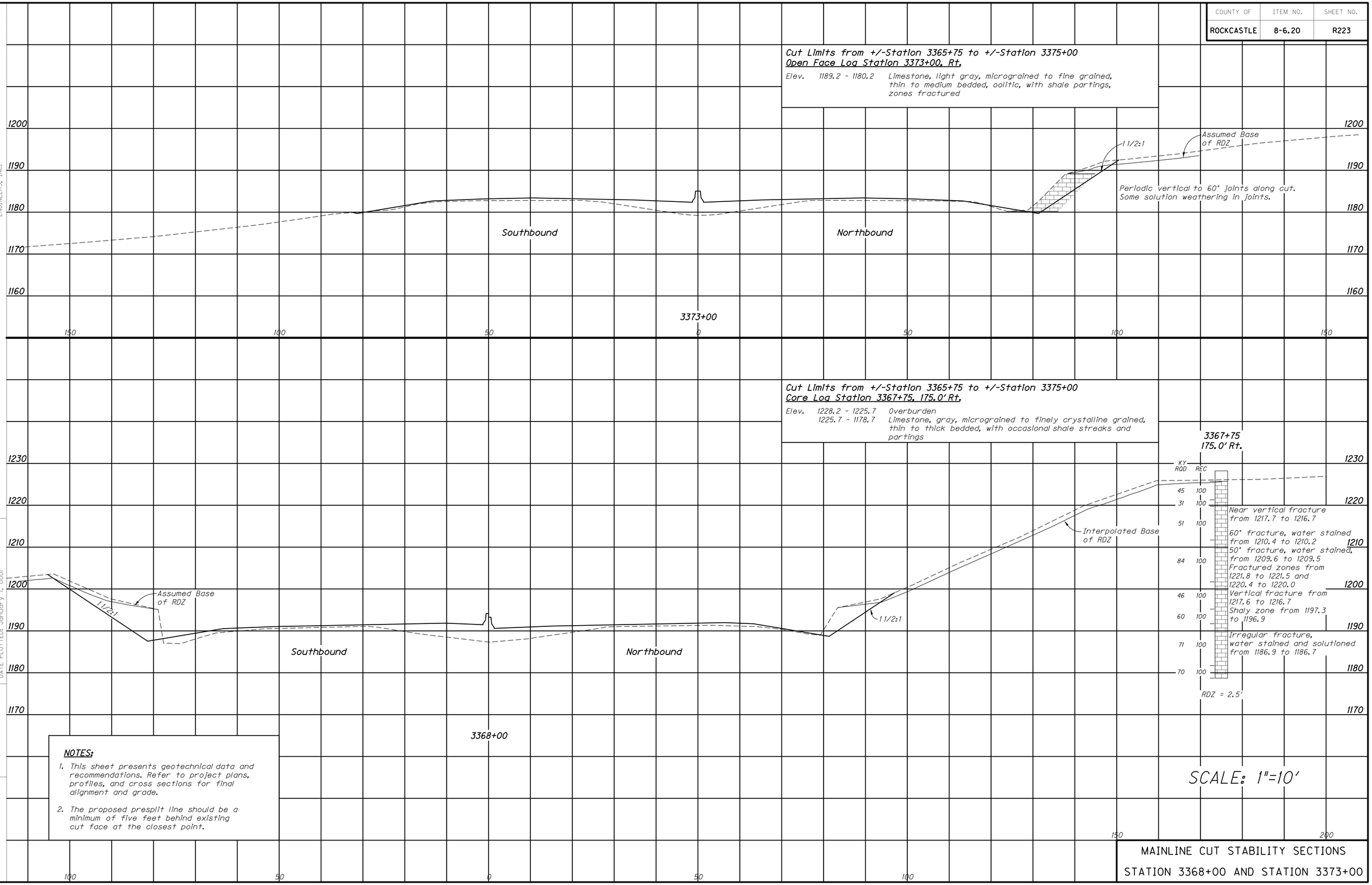
SCALE: 1"=10'

MAINLINE CUT STABILITY SECTION

STATION 3349+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R222OGT.DGN
USER: lstoggs DATE PLOTTED: January 1, 0001
E-SHEET NAME: R222XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R223



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

SCALE: 1"=10'

MAINLINE CUT STABILITY SECTIONS

STATION 3368+00 AND STATION 3373+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

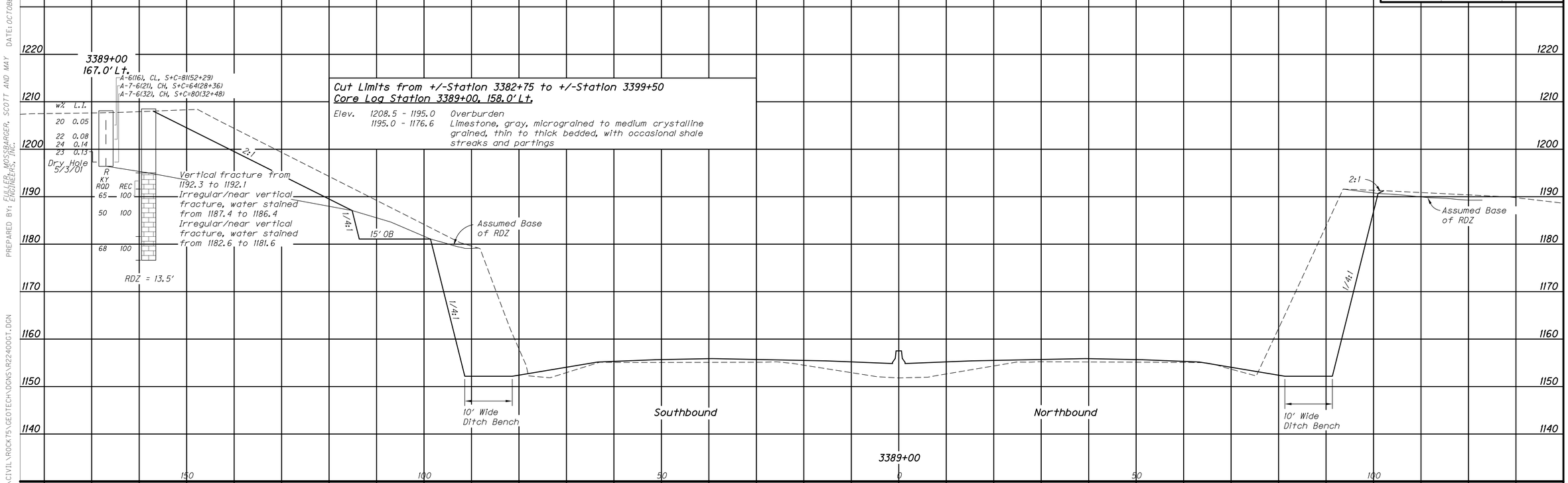
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R223OOGT.DGN

USER: lstaggs DATE PLOTTED: January 1, 0001

E-SHEET NAME: R223XSGT

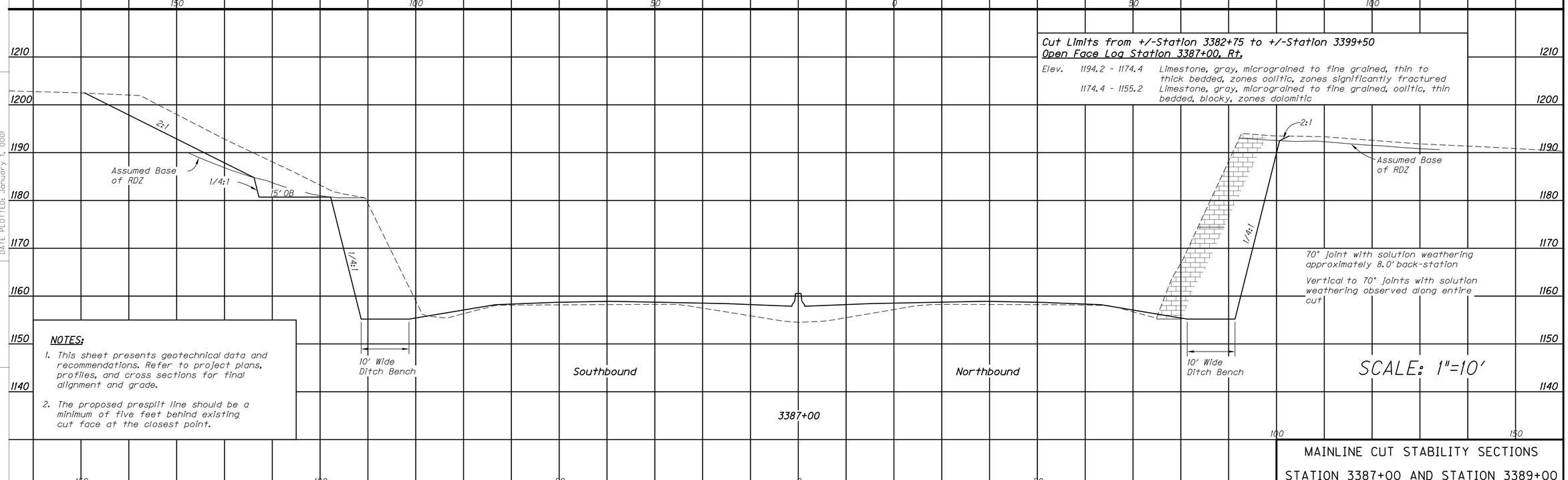
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R224



Cut Limits from +/-Station 3382+75 to +/-Station 3399+50
Core Log Station 3389+00, 158.0' Lt.

Elev.	1208.5 - 1195.0	Overburden
	1195.0 - 1176.6	Limestone, gray, micrograined to medium crystalline grained, thin to thick bedded, with occasional shale streaks and partings



Cut Limits from +/-Station 3382+75 to +/-Station 3399+50
Open Face Log Station 3387+00, Rt.

Elev.	1194.2 - 1174.4	Limestone, gray, micrograined to fine grained, thin to thick bedded, zones oolitic, zones significantly fractured
	1174.4 - 1155.2	Limestone, gray, micrograined to fine grained, oolitic, thin bedded, blocky, zones dolomitic

70° joint with solution weathering approximately 8.0' back-station

Vertical to 70° joints with solution weathering observed along entire cut

SCALE: 1"=10'

NOTES:

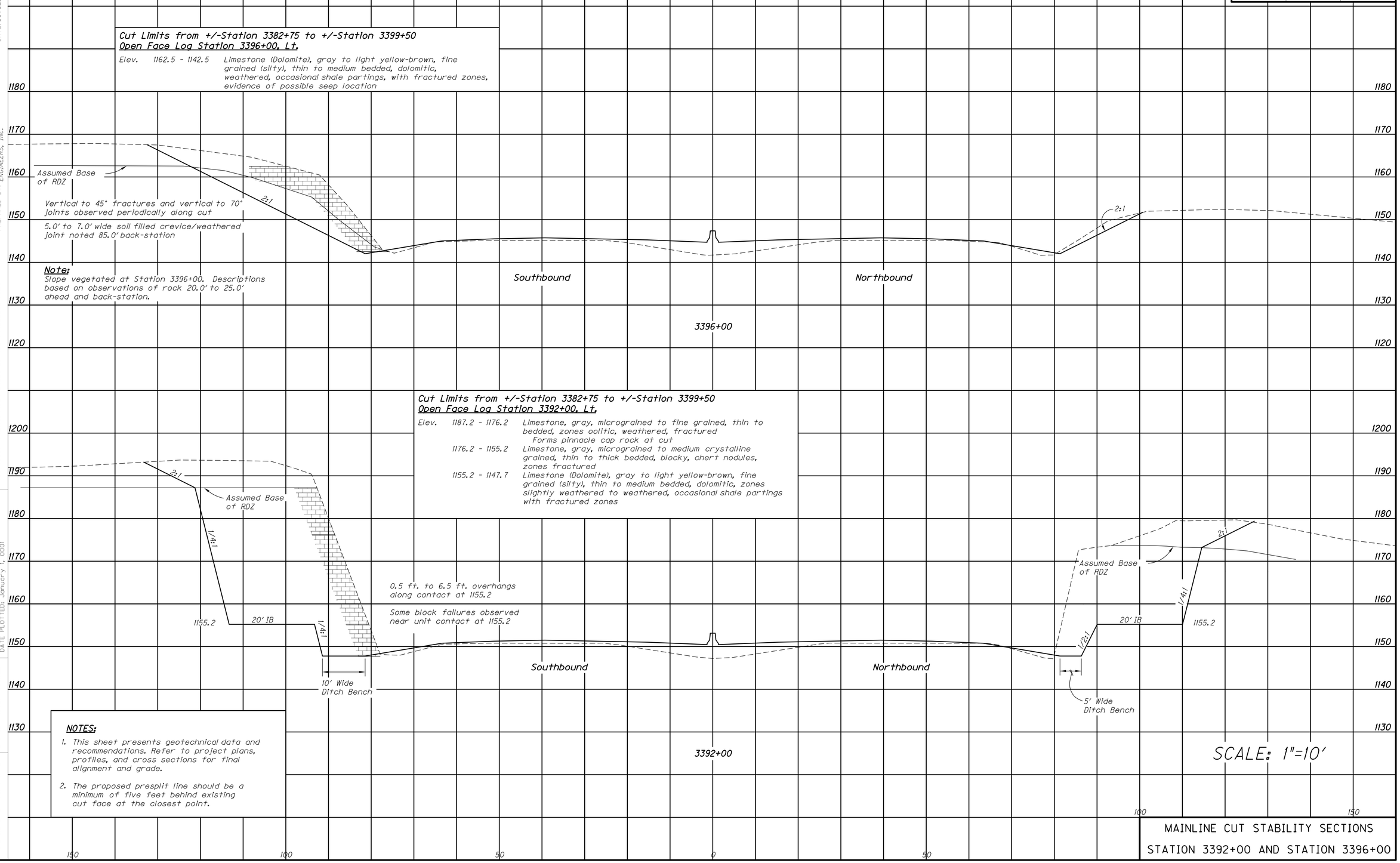
1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

MAINLINE CUT STABILITY SECTIONS

STATION 3387+00 AND STATION 3389+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC.
DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R224OGT.DGN
USER: lstoggs
DATE PLOTTED: January 1, 0001
E-SHEET NAME: R224XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R225



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

SCALE: 1"=10'

MAINLINE CUT STABILITY SECTIONS

STATION 3392+00 AND STATION 3396+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R225OOGT.DGN
USER: lstoggs DATE PLOTTED: January 1, 0001
E-SHEET NAME: R225XSGT
MicroStation v8.11.7.443

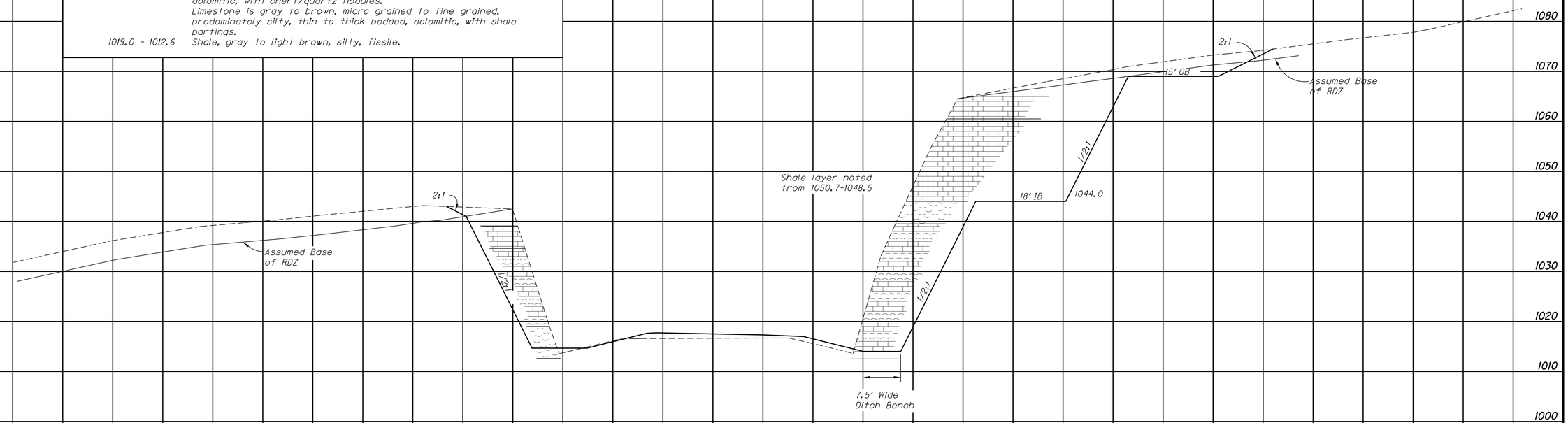
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R226

Cut Limits from +/-Station 105+00 to +/-Station 118+50
Open Face Log Station 113+00, Rt.

Elev.	1065.0 - 1060.5	Limestone, gray, micro grained to fine grained, thin to medium bedded, dolomitic.
	1060.5 - 1044.0	Limestone (Dolimite), gray to yellow-brown, micro grained to fine grained, zones very silty, thin to thick bedded, dolomitic with solution weathering.
	1044.0 - 1039.5	Shale, gray and brown, silty.
	1039.5 - 1012.5	Shale (Siltstone) (50%) interbedded with Limestone (Dolimite) (50%) Shale is gray to yellow-brown, silty, thin to thick bedded, dolomitic, with chert/quartz nodules. Limestone is gray to brown, micro grained to fine grained, predominately silty, thin to thick bedded, dolomitic, with shale partings.

Open Face Log Station 113+00, Lt.

Elev.	1039.1 - 1034.6	Limestone, gray to yellowish brown, micro grained to fine grained, thin to thick bedded, chert quartz nodules and layers, with shale stringers, partings and zones (<2.0')
	1034.6 - 1019.0	Shale (Siltstone) (50%) interbedded with Limestone (Dolimite) (50%) Shale is gray to yellow-brown, silty, thin to thick bedded, dolomitic, with chert/quartz nodules. Limestone is gray to brown, micro grained to fine grained, predominately silty, thin to thick bedded, dolomitic, with shale partings.
	1019.0 - 1012.6	Shale, gray to light brown, silty, fissile.



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

SCALE: 1"=10'

RAMP A CUT STABILITY SECTION

STATION 113+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R226OGCT.DGN

USER: lstaggs DATE PLOTTED: January 1, 0001

E-SHEET NAME: R226XSGT

MicroStation v8.11.7.443

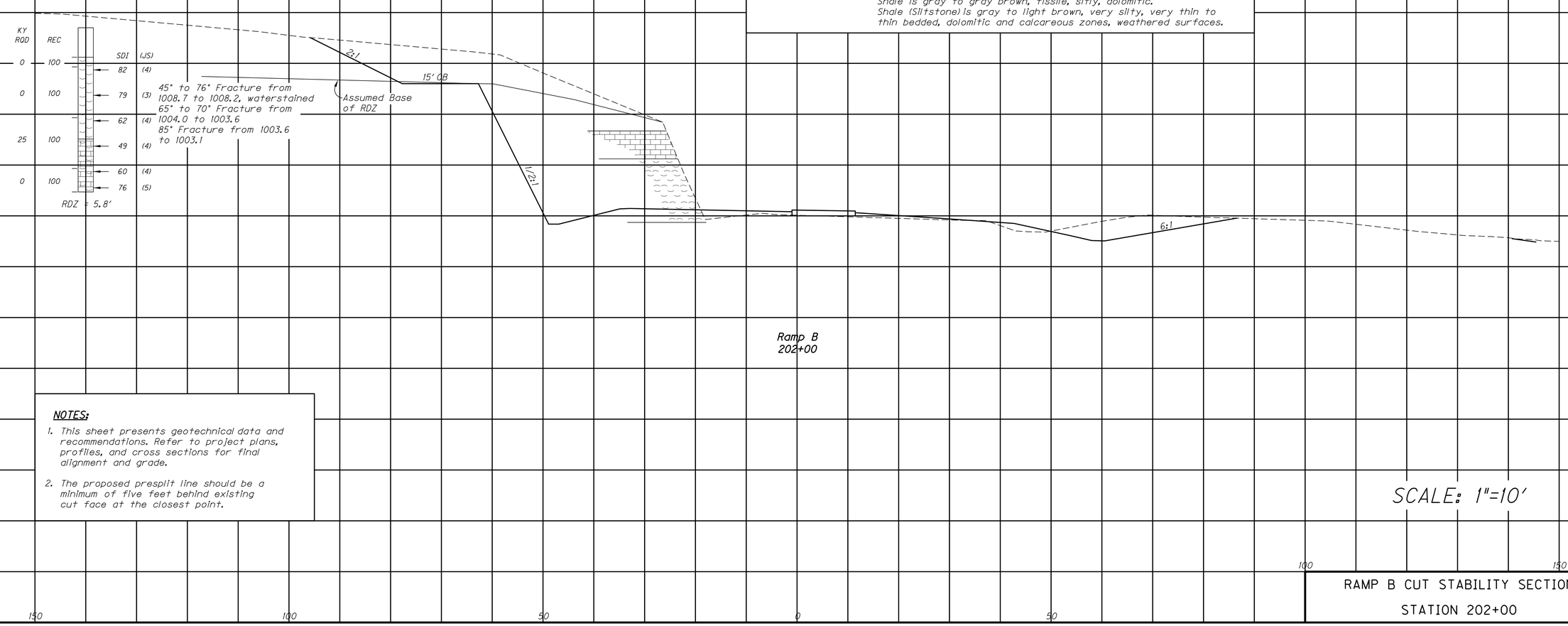
COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R227

Core Log Station 202+00, 140' Lt.

Elev. 1017.0 - 1011.2 Overburden
1011.2 - 995.1 Shale, gray to brown, silty zones, partially clay like below 996.0.
995.1 - 984.7 Shale (57%) interbedded with Limestone (Dolimite) (43%)
Shale is gray with silty and calcareous/dolomitic zones.
Limestone is gray, micro-crystalline grained, thin bedded. zones argillaceous, dolomitic with shale stringers and partings.

Cut Limits from +/-Station 201+00 to +/-Station 204+50
Open Face Log Station 202+00, Lt.

Elev. 997.9 - 996.7 Slope Covered with vegetation
996.7 - 991.2 Limestone, gray to brown, micro grained to fine grained, silty zones, thin to medium bedded, dolomitic, quartz/chert nodules, zones fractured, with shale stingers and partings.
991.2 - 978.7 Shale (60%) interbedded with Shale (Siltstone) (40%)
Shale is gray to gray brown, fissile, sitly, dolomitic.
Shale (Siltstone) is gray to light brown, very silty, very thin to thin bedded, dolomitic and calcareous zones, weathered surfaces.



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

SCALE: 1"=10'

RAMP B CUT STABILITY SECTION
STATION 202+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001
FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R227OOGT.DGN
USER: lstaggs DATE PLOTTED: January 1, 0001
E-SHEET NAME: R227XSGT
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
ROCKCASTLE	8-6.20	R228

Cut Limits from +/-Station 310+50 to +/-Station 321+00

Open Face Log Station 316+00, Rt.

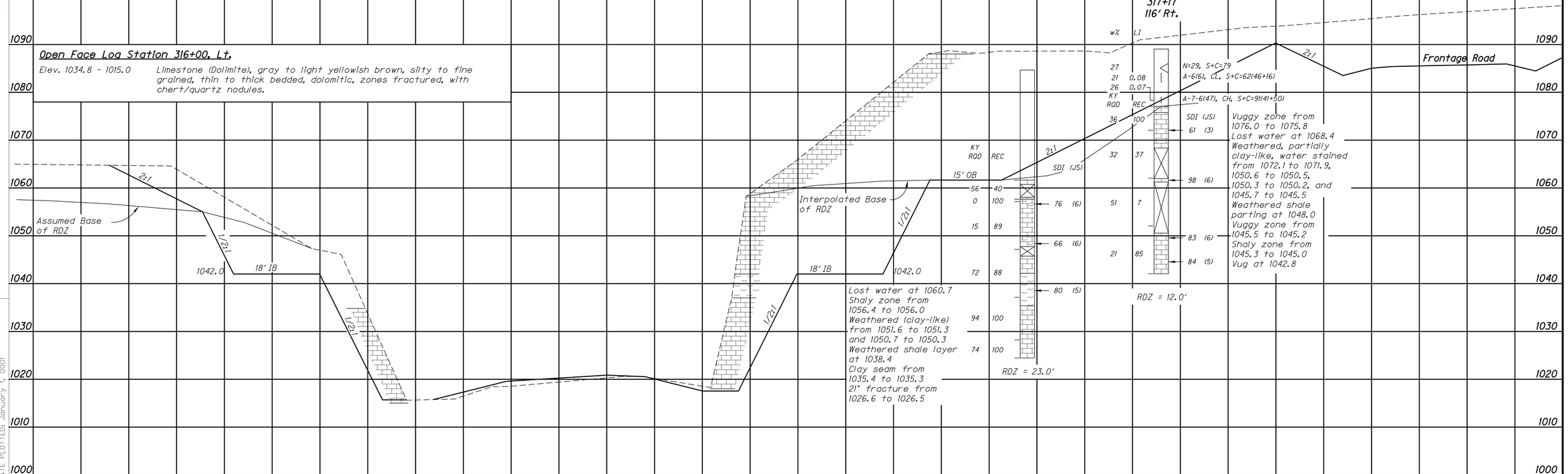
Elev.	1088.0 - 1042.0	Limestone (Dolimite), gray to light yellowish brown, micro grained to fine grained, thin to thick bedded, dolomitic, with shale partings and layers (<0.5'), becomes weathered with solutioning within joints and partially covered with vegetation above 1067.0'
	1042.0 - 1037.0	Shale, gray, silty, calcareous/dolimitic
	1037.0 - 1018.0	Limestone (Dolimite), gray to light yellowish brown, silty to to fine grained, thin to thick bedded, dolomitic, zones fractured with chert/quartz nodules.

Open Face Log Station 316+00, Lt.

Elev.	1034.8 - 1015.0	Limestone (Dolimite), gray to light yellowish brown, silty to fine grained, thin to thick bedded, dolomitic, zones fractured, with chert/quartz nodules.

Core Log Station 317+17, 116' Rt.

Elev.	1089.1 - 1077.1	Overburden
	1077.1 - 1075.8	Limestone, gray, micro to fine crystaline grained, thin bedded, with shale partings
	1075.8 - 1068.4	Limestone (dolomite), brown, silty, argillaceous zones, thin to medium bedded, occasional glanconite nodules, weathered, dolomitic with silty shale partings
	1068.4 - 1062.0	**Void**
	1062.0 - 1061.3	Limestone, gray, micrograined to finely grained, thin bedded, with shale partings
	1061.3 - 1050.6	**Void**
	1050.6 - 1042.1	Limestone (dolomite), brown, argillaceous, thin to medium bedded, weathered, dolomitic, with silty shale partings



Core Log Station 316+00, 88' Rt.

Elev.	1084.6 - 1061.6	Overburden
	1061.6 - 1060.7	Limestone, gray, micrograined to finely crystalline grained, thin bedded
	1060.7 - 1058.0	**Void**
	1058.0 - 1057.6	Limestone, brown to gray, micro-grained to finely crystalline grained, thin bedded
	1057.6 - 1047.7	Limestone (dolomite), brown to gray, argillaceous, thin to medium bedded, silty zones, dolomitic, weathered with silty shale partings
	1047.7 - 1045.7	**Void**
	1045.7 - 1042.1	Limestone (dolomite), brown to gray, argillaceous, thin to medium bedded, silty zones, dolomitic, weathered with silty shale partings
	1042.1 - 1035.3	Shale, gray to dark gray, silty
	1035.3 - 1024.4	Limestone (dolomite), gray, thin to medium bedded, fine to medium grained, dolomitic with silty shale partings

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. The proposed presplit line should be a minimum of five feet behind existing cut face at the closest point.

SCALE: 1"=10'

RAMP C CUT STABILITY SECTION

STATION 316+00

PREPARED BY: FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE: OCTOBER, 2001

FILE NAME: P:\CIVIL\ROCK75\GEOTECH\DGNS\R228OGT.DGN

USER: lstaggs DATE PLOTTED: January 1, 0001

E-SHEET NAME: R228XSGT

MicroStation v8.11.7.443