COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R1

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

GRAVES COUNTY
PROPOSED I-69 INTERCHANGE
(MILE POST 21)
NHPP 001 (031)
FD52 042 86996 01R

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R1A	SCHEMATIC SHEET LAYOUT
R2 - R2M	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3 - R38	PLAN AND PROFILE SHEETS
R39 - R39A	RIGHT OF WAY SUMMARY SHEETS
R40 - R41	RIGHT OF WAY STRIP MAP SHEETS
R42 - R43	COORDINATE CONTROL SHEETS
R44 - R44A	INTERCHANGE APPROVAL SHEET
R45 - R90	DETAIL SHEETS
R91 - R113	TRAFFIC CONTROL SHEETS
R114 - R128	EROSION CONTROL SHEETS
R129 - R174	PIPE DRAINAGE SHEETS
R175 - R188	SOIL PROFILE SHEETS
S1 - S**	STRUCTURE PLANS
T1 - T**	SIGNING PLANS
T** - T**	LIGHTING PLANS
U1 - U*	UTILITY RELOCATION PLANS
X1 - X***	CROSS SECTION SHEETS

SHEETS NOT INCLUDED IN TOTAL SHEETS

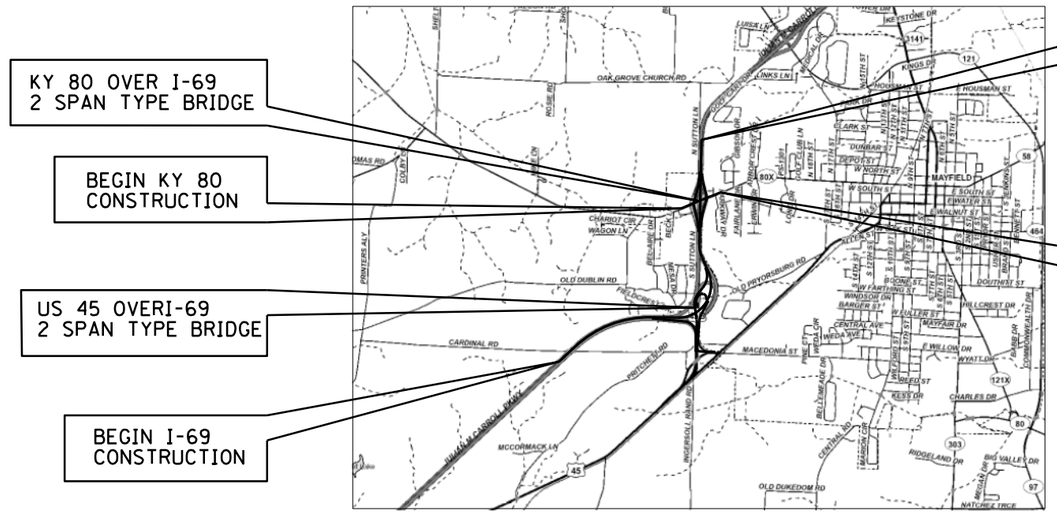
R1A, R2A-R2M, R9A, R13A, R24A, R29A, R30A, R31A, R35A, R39A, R50A

STANDARD DRAWINGS

NUMBER

RBC-001-10	RDB-230-08	RDP-010-08	RPN-001-06
RBC-002-02	RDB-231-10	RDX-001-05	RPN-015-04
RBE-060-13	RDB-270-08	RDX-002-03	RPN-020-03
RBE-065-06	RDB-271-04	RDX-060-03	RPS-010-10
RBI-002-06	RDB-272-06	RDX-210-02	RPS-032-05
RBI-004-04	RDB-273-05	RDX-220-04	RPS-033-06
RBI-006-06	RDB-280-05	RDX-230	RPS-037-05
RBM-001-09	RDB-281-02	RFW-001-05	RPS-039-05
RBM-003-10	RDB-282-03	RFW-005-07	TPM-100-02
RBM-015-05	RDB-283-03	RGS-002-05	TPM-125-02
RBM-115-09	RDD-020-06	RGX-001-05	TPM-130-02
RBM-130-04	RDD-040-04	RGX-002-08	TPM-135-02
RBR-016-04	RDI-001-09	RGX-010-03	TTC-115-02
RBR-020-05	RDI-002-04	RGX-030-06	TTC-120-02
RDB-001-11	RDI-003-04	RGX-040-02	TTC-135-01
RDB-005-08	RDI-004-03	RGX-060	TTD-120-01
RDB-007-02	RDI-020-08	RGX-061	TTS-115-01
RDB-008-03	RDI-021	RGX-065-01	RDH-005-02
RDB-010-06	RDI-025-04	RPM-010-05	RDH-020-03
RDB-013-06	RDI-026	RPM-100-09	RDH-110-02
RDB-014-05	RDI-035-01	RPM-110-06	RDH-120-02
RDB-016-02	RDI-040	RPM-115-04	RDH-210-03
RDB-100-04	RDI-041	RPM-120-06	RDH-212-02
RDB-101-04	RDI-045-01	RPM-140-04	RDH-214-03
RDB-105-05	RDP-001-05	RPM-150-07	RDH-320-04
RDB-106-04	RDP-006-03	RPM-152-07	RDH-330-04
	RDP-007-03	RPM-170-08	

106 STANDARD DRAWINGS



INTERSTATE 69 AND US 45

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

THIS PROJECT IS ON THE NH SYSTEM

KY 80

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

DESIGN CRITERIA

	I-69	KY 80
CLASS OF HIGHWAY	INTERSTATE, URBAN COLLECTOR	
TYPE OF TERRAIN	ROLLING	
DESIGN SPEED	60 MPH, 45 MPH	
REQUIRED NPSD	570', 360'	
REQUIRED PSD	1000', 700'	
LEVEL OF SERVICE		
ADT PRESENT (2015)	11,900, 7,500	
ADT FUTURE (2040)	13,400, 8,600	
DHV	1480, 810	
D %	73/27 (I-69), 51/49 (KY 80)	
T %	29%, 8.4%	

GEOGRAPHIC COORDINATES

LATITUDE 36 DEGREES 43 MINUTES 54 SECONDS NORTH
LONGITUDE 88 DEGREES 39 MINUTES 59 SECONDS WEST

DESIGNED

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

PRELIMINARY
SUBJECT TO CHANGE

0' 3000' 6000' 9000'

LAYOUT MAP

INTERSTATE 69

LENGTH 12915.42 LIN. FT. 2.446 MILES
ADDED DEDUCTED — FOR EQUALITIES 0.000 LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. 0.000 LIN. FT.
BRIDGES _____ LIN. FT.

US 45

LENGTH 1521.970 LIN. FT. 0.288 MILES
ADDED DEDUCTED — FOR EQUALITIES 0.000 LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. 0.000 LIN. FT.
BRIDGES I-69 - 242.330' LIN. FT.

KY 80

LENGTH 1634.187 LIN. FT. 0.310 MILES
ADDED DEDUCTED — FOR EQUALITIES 0.000 LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. 0.000 LIN. FT.
BRIDGES I-69 - 215.813' LIN. FT.

RAMPS

LENGTH 13811.14 LIN. FT. 2.616 MILES
ADDED DEDUCTED — FOR EQUALITIES 0.000 LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. 0.000 LIN. FT.
BRIDGES 0.000 LIN. FT.

N SUTTON LN / S SUTTON LN

LENGTH 693.62 LIN. FT. 0.131 MILES
ADDED DEDUCTED — FOR EQUALITIES 0.000 LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. 0.000 LIN. FT.
BRIDGES 0.000 LIN. FT.

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

GRAVES

PROPOSED I-69 INTERCHANGE (MP 21)

ITEM NO. 1-234.20
PROJECT NUMBER: NHPP 001 (031) FD52 042 86996 01R
LETTING DATE: OCT 2015

RECOMMENDED BY: CHRIS KUNTZ
PROJECT MANAGER DATE:

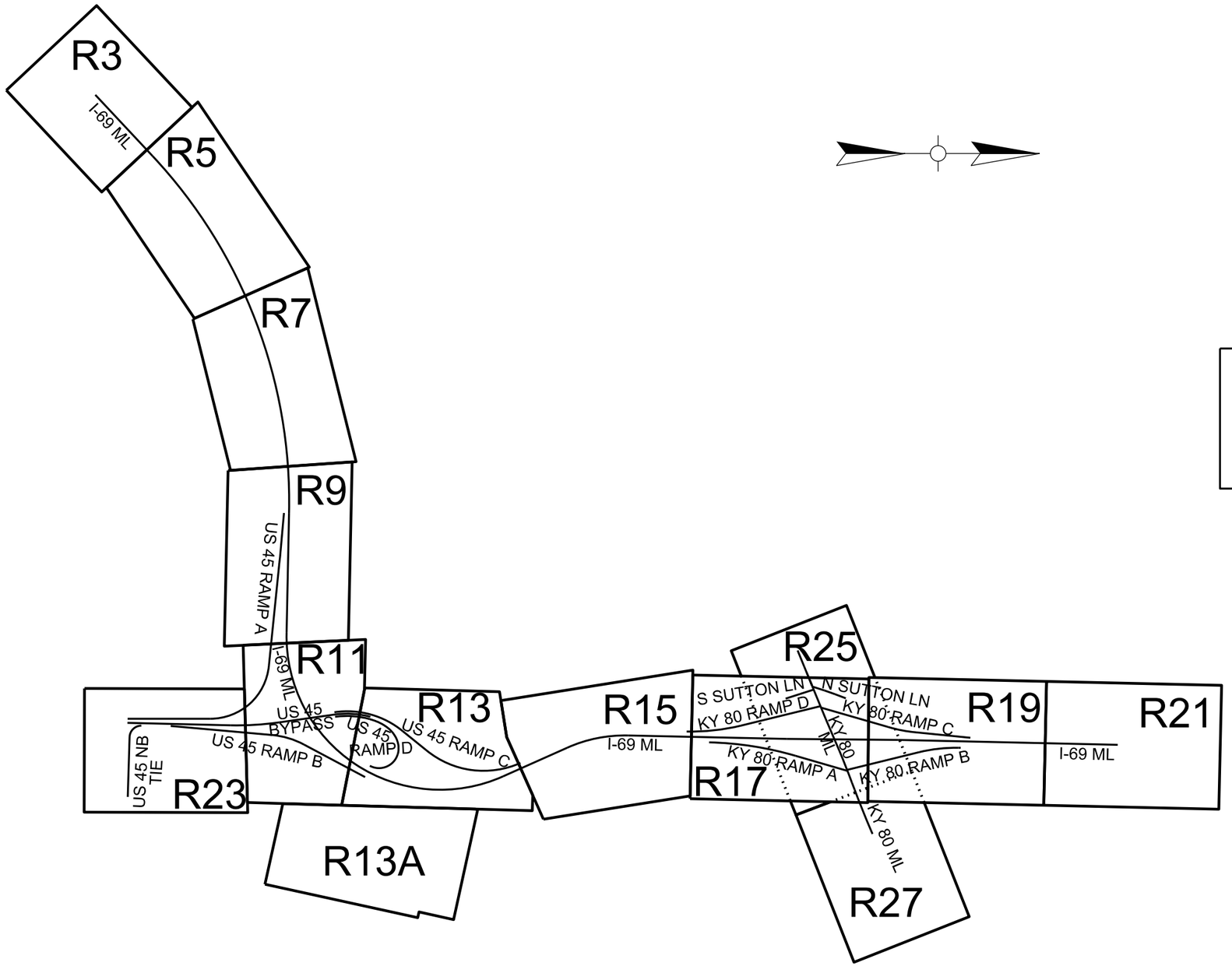
PLAN APPROVED BY: _____
STATE HIGHWAY ENGINEER DATE:

PREPARED BY
PALMER ENGINEERING COMPANY

Signed: _____
Date: *DATE*

FILE NAME: C:\PW_WORKDIR\WILL\DMS01398\R001OOPL.DGN
USER: will
DATE PLOTTED: July 23, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R1A



PRELIMINARY
SUBJECT TO CHANGE

INDEX OF PROFILE SHEETS

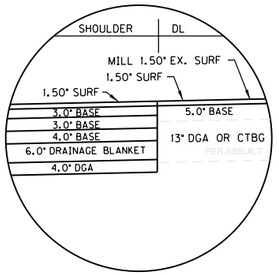
I-69 MAINLINE	R4 - R22
US 45 BYPASS	R24 - R24A
KY 80 MAINLINE	R26 - R28
US 45 RAMP A	R29 - R29A
US 45 RAMP B	R30 - R30A
US 45 RAMP C	R31 - R31A
US 45 RAMP D	R32
US 45 NB TIE	R33
KY 80 RAMP A	R34
KY 80 RAMP B	R35 - R35A
KY 80 RAMP C	R36
KY 80 RAMP D	R37
NORTH SUTTON LANE	R38
SOUTH SUTTON LANE	R38

SCALE: 1"=500'

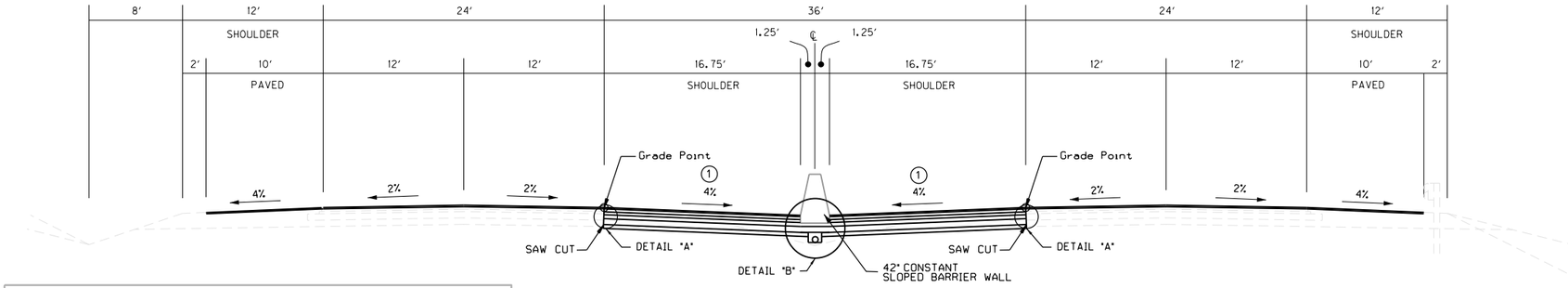
I-69 INTERCHANGE
SCHEMATIC SHEET LAYOUT

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: November 19, 2014
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01398\R001A0PL.DGN

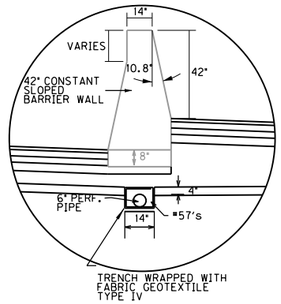
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R2



DETAIL "A"



1. SEE CROSS SECTIONS FOR SLOPES OUTSIDE SHOULDERS
2. WIDEN SHOULDER 1' FOR GUARDRAIL
3. BIT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. 2.4 LB/SY ASPHALT SEAL COAT AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
4. END SOUTHBOUND OVERLAY AND BEGIN SOUTHBOUND FULL DEPTH AT STA. 1096+00. END NORTHBOUND OVERLAY AND BEGIN FULL DEPTH AT STA. 1099+50.
5. SCARIFY AND RESHAPE EXISTING PAVEMENT OUTSIDE OF PROPROSED PAVED SHOULDERS WHEN EMBANKMENT OCCURS.



DETAIL "B"

PRELIMINARY
SUBJECT TO CHANGE

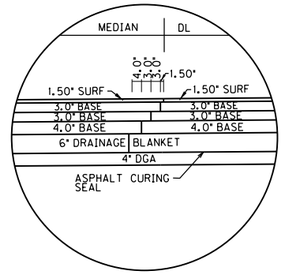
NORMAL SECTION

I-69

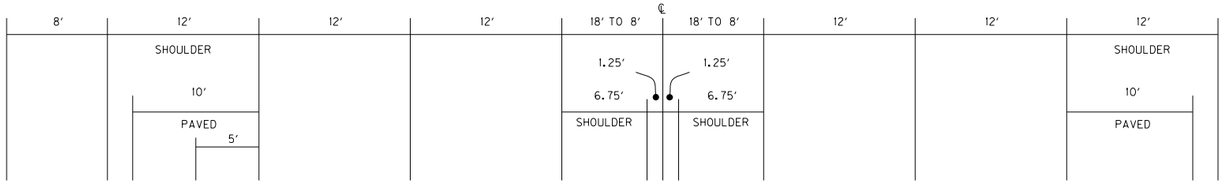
STA 1056+60.96 TO STA. 1063+54.30

NOTE

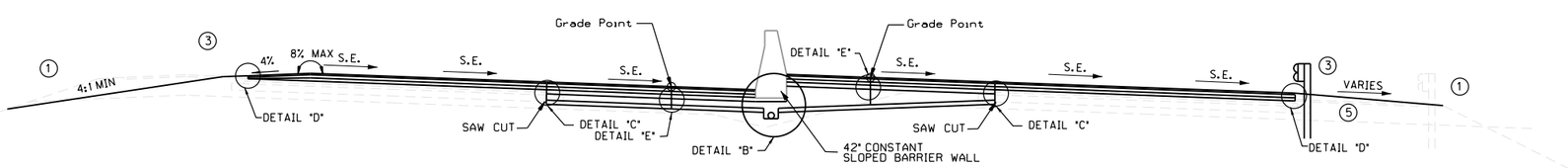
FABRIC GEOTEXTILE TYPE IV, EMBANKMENT EXCAVATION AND CRUSHED AGGREGATE SIZE NO. 57 ARE INCIDENTAL TO 4" AND 6" PERFORATED PIPE.



DETAIL "E"



DETAIL "C"

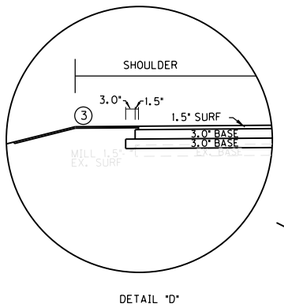


SUPERELEVATED SECTION

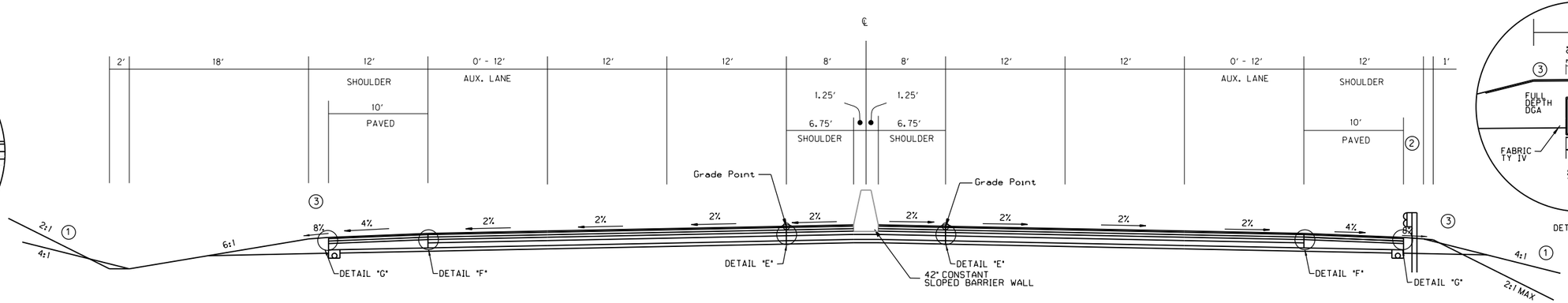
I-69

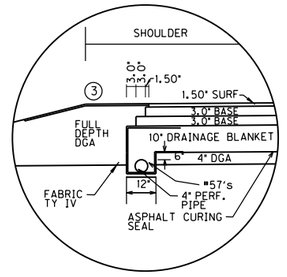
STA. 1063+54.30 TO STA. 1098+74.10 (4)

DETAIL "F"



DETAIL "D"





DETAIL "G"

I-69 MAINLINE PAVEMENT DESIGN

1.50" SURFACE	1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50A PG 76-22
20.0" BASE	3.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 76-22 3.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22 4.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22 6.0" DEPTH DRAINAGE BLANKET - TYPE II - ASPH PG 64-22 4" DEPTH DGA

I-69 SHOULDER PAVEMENT DESIGN

1.50" SURFACE	1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG 64-22
20.0" BASE	3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22 3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22 10.0" DEPTH DRAINAGE BLANKET - TYPE II - ASPH PG 64-22 4" DEPTH DGA

NORMAL SECTION

I-69

STA. 1098+74.10 TO STA. 1104+16.80 (4)

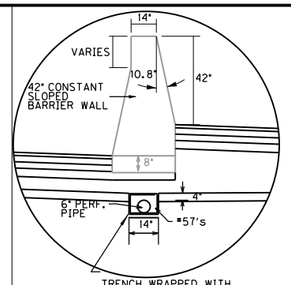
STA. 1148+55.3 TO STA. 1186+15.42

SCALE: NTS

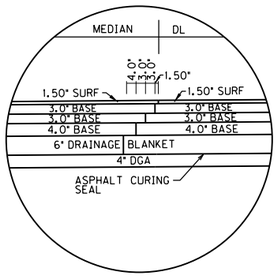
TYPICAL SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01407\TYPICALS.DGN
USER: ryan-s
DATE PLOTTED: July 31, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

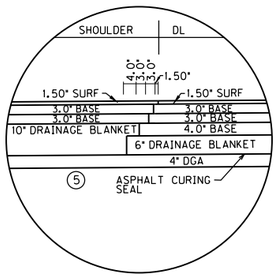
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2A



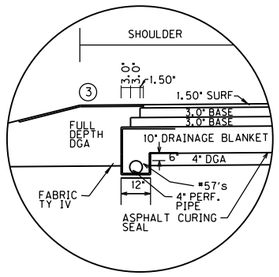
DETAIL "A"



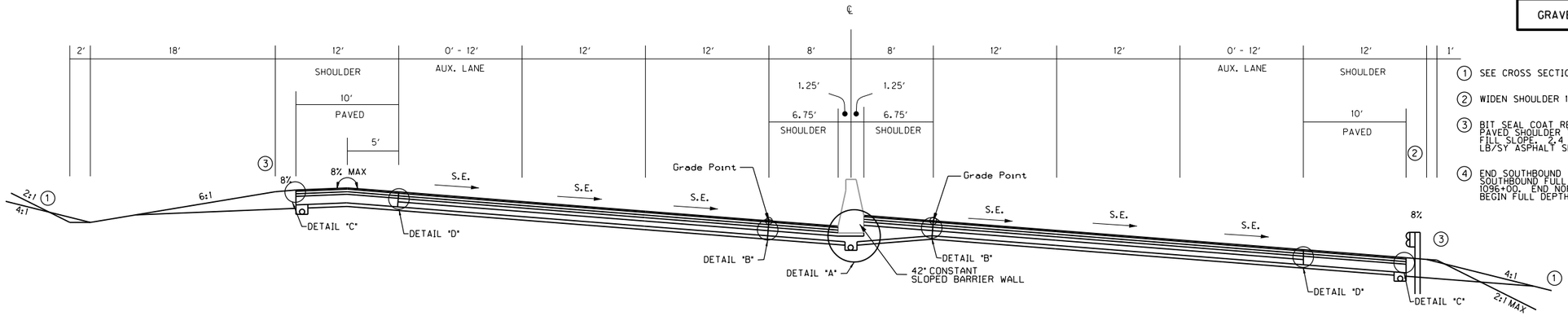
DETAIL "B"



DETAIL "C"



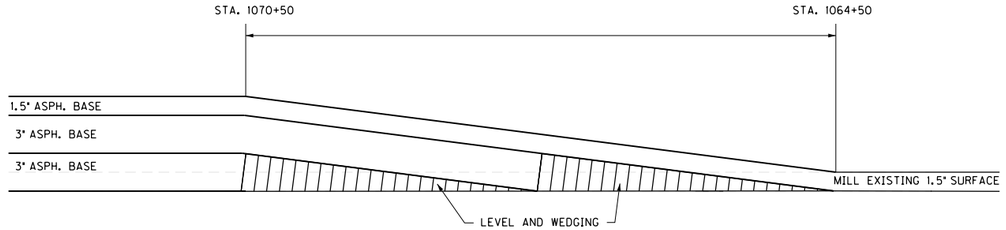
DETAIL "D"



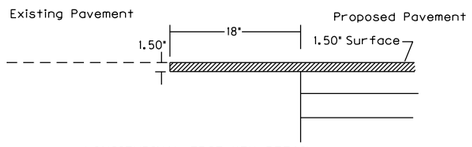
1. SEE CROSS SECTIONS FOR SLOPES OUTSIDE SHOULDERS
2. WIDEN SHOULDER 1' FOR GUARDRAIL
3. BIT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. 2.4 LB/SY ASPHALT SEAL COAT AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
4. END SOUTHBOUND OVERLAY AND BEGIN SOUTHBOUND FULL DEPTH AT STA. 1096+00. END NORTHBOUND OVERLAY AND BEGIN FULL DEPTH AT STA. 1103+00.

SUPERELEVATED SECTION
I-69

STA. 1104+16.80 TO STA. 1148+55.30

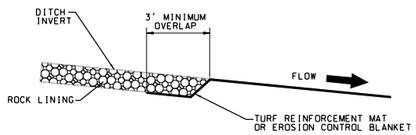


I-69 PAVEMENT TAPER OVERLAY

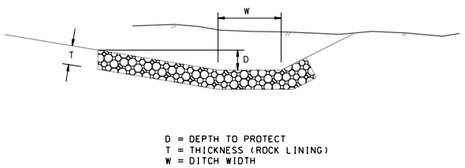


LONGITUDINAL EDGE KEY DETAIL

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 "LONGITUDINAL EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.

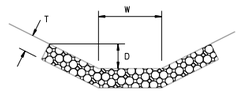


CHANNEL LINING OVERLAP DETAIL



D = DEPTH TO PROTECT
T = THICKNESS (ROCK LINING)
W = DITCH WIDTH

TYPICAL ROADWAY DITCH (NORMAL AND SPECIAL DITCH)



D = DEPTH TO PROTECT
T = THICKNESS (ROCK LINING)
W = WIDTH

TYPICAL SURFACE DITCH SECTION

NOTE

FABRIC GEOTEXTILE TYPE IV, EMBANKMENT EXCAVATION AND CRUSHED AGGREGATE SIZE NO. 57 ARE INCIDENTAL TO 4" AND 6" PERFORATED PIPE.

PRELIMINARY
SUBJECT TO CHANGE

I-69 MAINLINE PAVEMENT DESIGN

- 1.50" SURFACE — 1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50A PG 76-22
- 20.0" BASE —
  - 3.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 76-22
  - 3.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22
  - 4.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22
  - 6.0" DEPTH DRAINAGE BLANKET - TYPE II - ASPH PG 64-22
  - 4" DEPTH DGA

I-69 SHOULDER PAVEMENT DESIGN

- 1.50" SURFACE — 1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG 64-22
- 20.0" BASE —
  - 3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22
  - 3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22
  - 10.0" DEPTH DRAINAGE BLANKET - TYPE II - ASPH PG 64-22
  - 4" DEPTH DGA

SCALE: NTS

TYPICAL SECTIONS

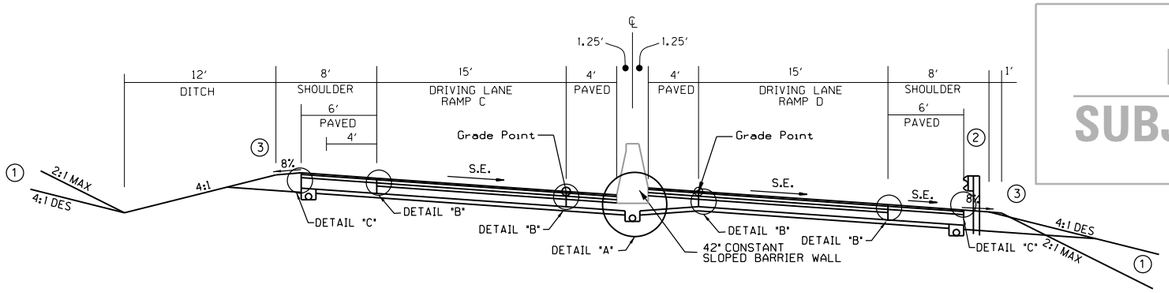
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01407\TYPICALS.DGN
USER: ryan-s
DATE PLOTTED: July 31, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2B

PRELIMINARY
SUBJECT TO CHANGE

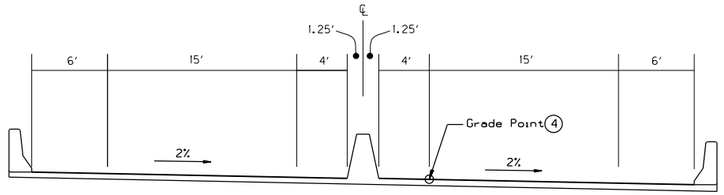
NOTE
FABRIC GEOTEXTILE TYPE IV, EMBANKMENT EXCAVATION AND CRUSHED AGGREGATE SIZE NO. 57 ARE INCIDENTAL TO 4" AND 6" PERFORATED PIPE.

1. SEE CROSS SECTIONS FOR SLOPES OUTSIDE SHOULDERS
2. WIDEN SHOULDER 1' FOR GUARDRAIL
3. BIT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. 2.4 LB/SY ASPHALT SEAL COAT AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
4. SEE PAVEMENT DEVELOPMENT SHEET
5. SEE US 45 NB TIE DETAIL



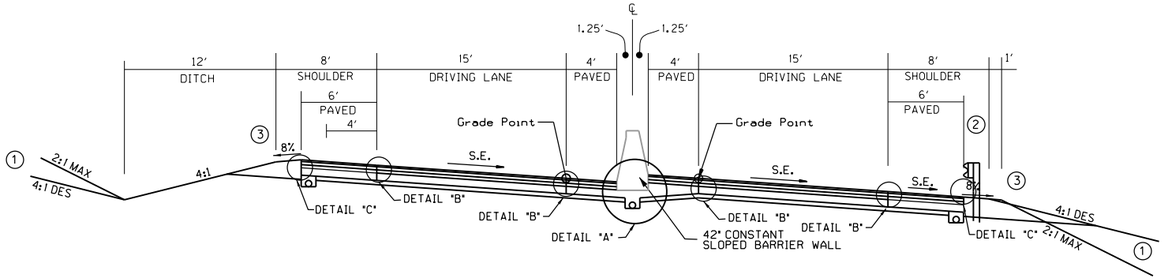
SUPERELEVATED SECTION ④
RAMP D /RAMP C

RAMP D - STA. 300+00 TO STA. 302+90.44
RAMP C - STA. 414+18.11TO STA. 417+25.07



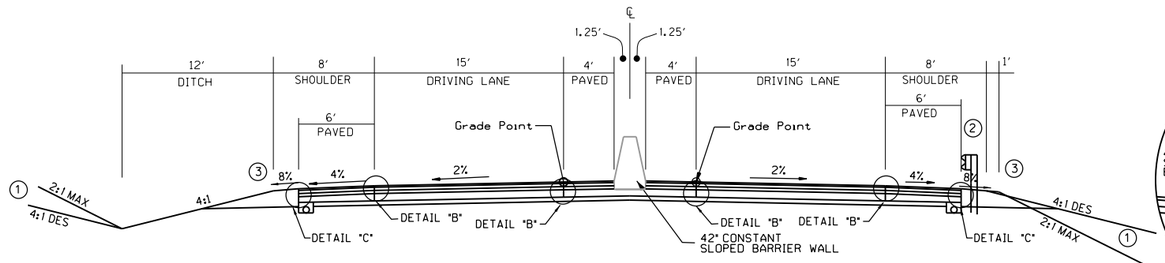
NORMAL SECTION
US 45 BRIDGE

STA. 514+51.78 TO STA. 516+94.12



SUPERELEVATED SECTION ④
US 45

STA. 507+71.60 TO STA. 517+64.3

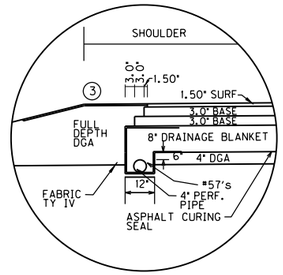


US 45, US 45 NB TIE AND RAMP PAVEMENT DESIGN - MAINLINE

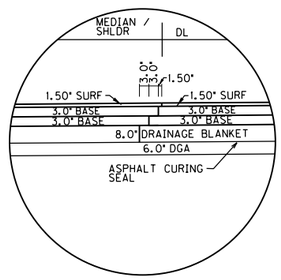
1.50" SURFACE	1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50A PG 76-22
20.0" BASE	3.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 76-22 3.0" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22 8.0" DEPTH DRAINAGE BLANKET - TYPE II - ASPH PG 64-22 6" DEPTH DGA

NORMAL SECTION
US 45

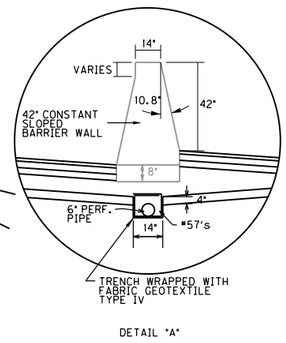
STA. 500+00.00 TO STA. 507+71.60



DETAIL "C"



DETAIL "B"



DETAIL "A"

SUPERELEVATED SECTION
1 LANE RAMP

KY 80 RAMP A
STA. 700+00 TO STA. 708+10.50

KY 80 RAMP B
STA. 805+55.84 TO STA. 822+84.89

KY 80 RAMP C
STA. 904+61.02 TO STA. 907+88.82

KY 80 RAMP D
STA. 1006+76.62 TO STA. 1011+59.08

US 45 NB TIE ⑤
STA. 602+25.00 TO STA. 606+62.86

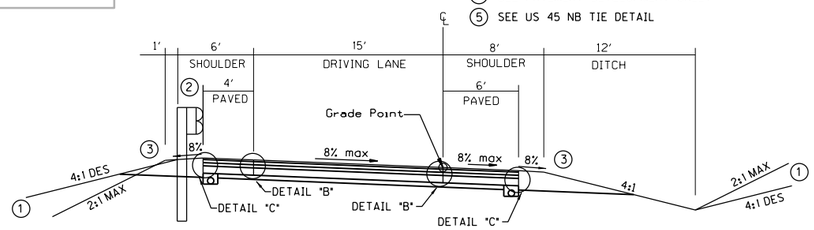
US 45 RAMP A
STA. 112+16.55 TO STA. 121+24.35

US 45 RAMP B
STA. 207+87.89 TO STA. 217+30.24

US 45 RAMP C
STA. 400+00 TO STA. 414+18.11

US 45 RAMP D
STA. 302+90.44 TO STA. 310+10.54

RUMBLE STRIPS TO BE CONSTRUCTED ON THE OUTSIDE SHOULDER



NORMAL SECTION
1 LANE RAMP

KY 80 RAMP A
STA. 708+10.5 TO STA. 712+02.69

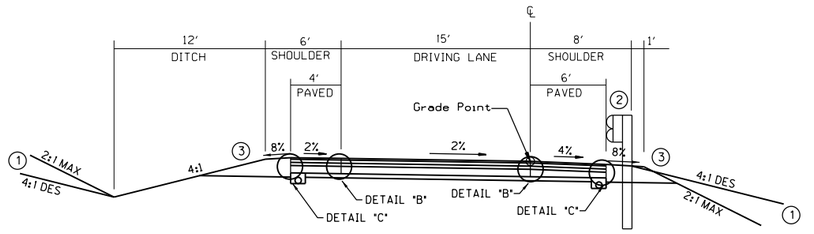
KY 80 RAMP B
STA. 800+00 TO STA. 805+55.84

KY 80 RAMP C
STA. 900+00 TO STA. 904+61.02
STA. 907+88.82 TO STA. 912+96.34

KY 80 RAMP D
STA. 1000+00 TO STA. 1006+76.62

US 45 RAMP A
STA. 100+00.00 TO STA. 112+16.55
STA. 121+24.35 TO STA. 127+38.78

US 45 RAMP B
STA. 200+00 TO STA. 207+87.89



US 45, US 45 NB TIE AND RAMP PAVEMENT DESIGN - SHOULDERS

1.50" SURFACE	1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG 64-22
20.0" BASE	3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22 3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22 8.0" DEPTH DRAINAGE BLANKET - TYPE II - ASPH PG 64-22 6" DEPTH DGA

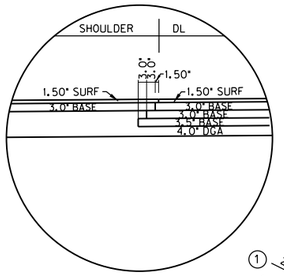
SCALE: NTS

TYPICAL SECTIONS

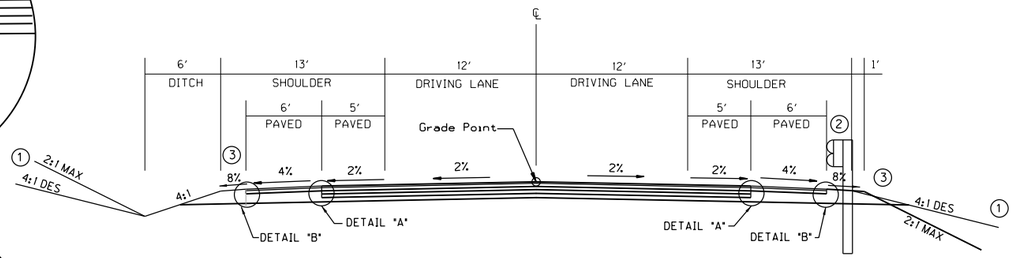
MicroStation v8.11.9.357 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 31, 2015 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01407\TYPICALS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2C

1. SEE CROSS SECTIONS FOR SLOPES OUTSIDE SHOULDERS
2. WIDEN SHOULDER 1' FOR GUARDRAIL
3. BIT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. 2.4 LB/SY ASPHALT SEAL COAT AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
4. SEE CROSS SECTIONS FOR DIMENSIONS



DETAIL "A"



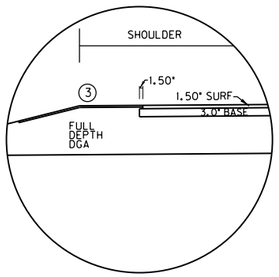
NORMAL SECTION

KY 80

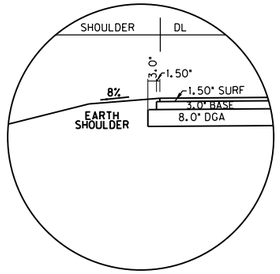
STA. 47+07.61 TO STA. 54+00

KY 80 PAVEMENT DESIGN - MAINLINE & SHOULDERS

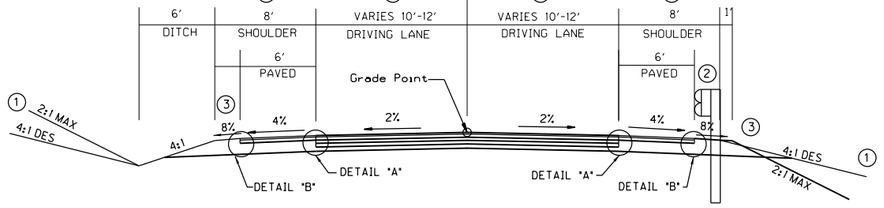
1.50" SURFACE	1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50A PG 76-22
13.5" BASE	9.5" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22 (3"+3"+3.5") 4" DEPTH DGA



DETAIL "B"



DETAIL "C"



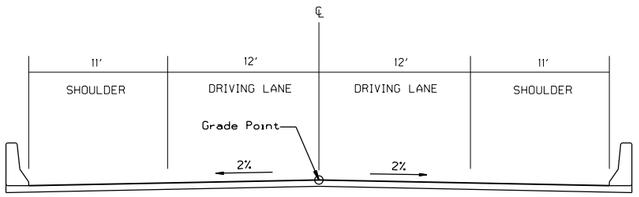
NORMAL SECTION

KY 80

STA. 43+50.05 TO STA. 47+07.61
STA. 54+00 TO 59+61.80

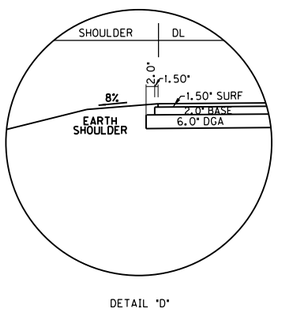
KY 80 PAVEMENT DESIGN - MAINLINE & SHOULDERS

1.50" SURFACE	1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50A PG 76-22
13.5" BASE	9.5" DEPTH CLASS 3 ASPHALT BASE 1.00D PG 64-22 (3"+3"+3.5") 4" DEPTH DGA

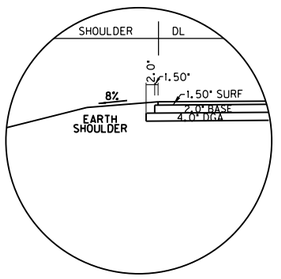


NORMAL SECTION
KY 80 BRIDGE

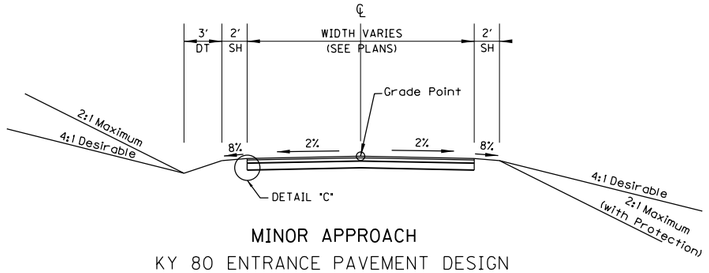
STA. 49+03.71 TO STA. 51+12.51



DETAIL "D"



DETAIL "E"

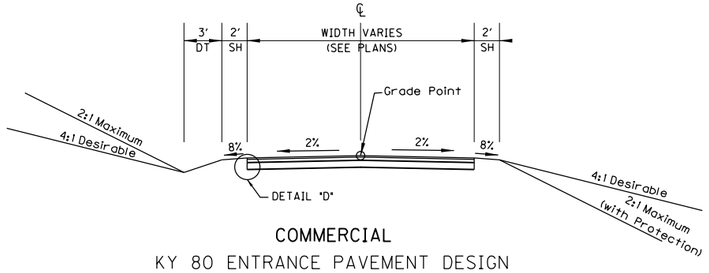


MINOR APPROACH

KY 80 ENTRANCE PAVEMENT DESIGN

CORNELL - PARKWAY DRIVE - FAIRVIEW DRIVE

ASPHALT	1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG64-22 3.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22 8" COMPACTED DGA



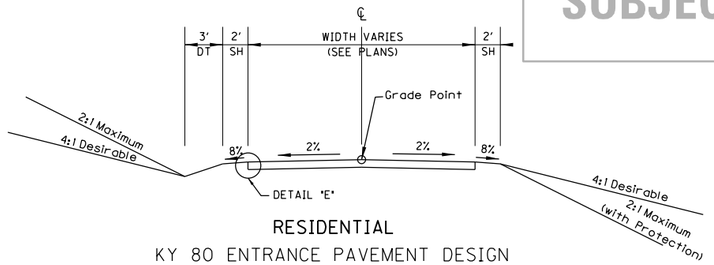
COMMERCIAL

KY 80 ENTRANCE PAVEMENT DESIGN

LT. 43+52.5 RT. 54+93
RT. 54+59.6 RT. 55+82.5

ASPHALT	1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG64-22 2.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22 6" COMPACTED DGA

PRELIMINARY
SUBJECT TO CHANGE



RESIDENTIAL

KY 80 ENTRANCE PAVEMENT DESIGN

RT. 42+76.6
RT. 44+00
LT. 59+85

ASPHALT	1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG64-22 2.0" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22 4" COMPACTED DGA

SCALE: NTS

TYPICAL SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01407\TYPICALS.DGN
USER: ryan-s
DATE PLOTTED: July 31, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

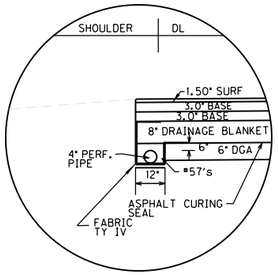
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2D

(1) SEE CROSS SECTIONS FOR SLOPES OUTSIDE SHOULDERS

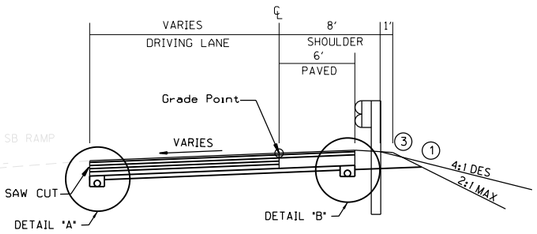
(2) WIDEN SHOULDER 1' FOR GUARDRAIL

(3) BIT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. 2.4 LB/SY ASPHALT SEAL COAT AND 20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).

(4) SEE PAVEMENT DEVELOPMENT SHEET

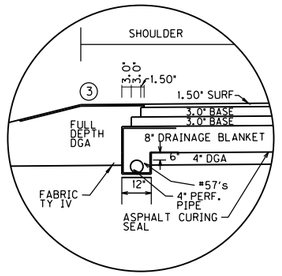


DETAIL "A"

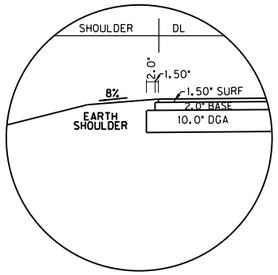


US 45 NB TIE DETAIL (4)

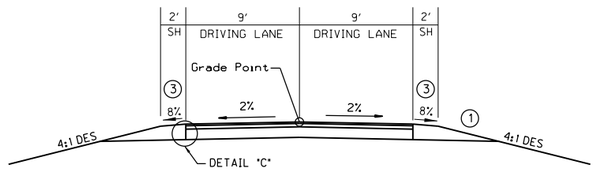
STA. 600+00 TO STA. 602+25



DETAIL "B"

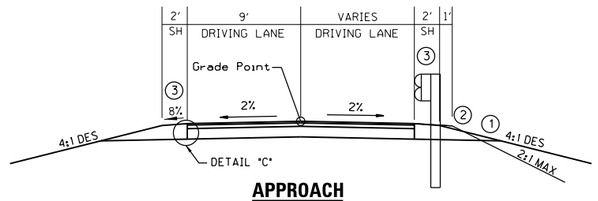


DETAIL "C"



APPROACH

NORTH SUTTON LANE - STA. 2+92 TO END
SOUTH SUTTON LANE - STA. 0+00 TO END



APPROACH

NORTH SUTTON LANE - STA. 0+00 TO STA. 2+92

SUTTON LANE PAVEMENT DESIGN

1.50" SURFACE	1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.50D PG 76-22
13.25" BASE	3.25" DEPTH CLASS 2 ASPHALT BASE 1.00D PG 64-22 10" DEPTH DGA

PRELIMINARY
SUBJECT TO CHANGE

SCALE: NTS

TYPICAL SECTIONS

MicroStation v8.11.9.357 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 31, 2015 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01407\TYPICALS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2E

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	I-69	US 45	KY 80	US 45 RAMPS	KY 80 RAMPS	APPROACHES / ENTRANCES									TOTAL PROJECT
78	CRUSHED AGGREGATE SIZE NO 2 (5)	TON															
100	ASPHALT SEAL AGGREGATE	TON															
103	ASPHALT SEAL COAT	TON															
1000	PERFORATED PIPE-4 IN (5)	LF															
1001	PERFORATED PIPE-6 IN (5)	LF															
1010	NON-PERFORATED PIPE-4 IN (5)	LF															
1011	NON-PERFORATED PIPE-6 IN (5)	LF															
1020	4 INCH PERFORATED PIPE HEADWALL TYPE 1 (5)	EACH															
1021	6 INCH PERFORATED PIPE HEADWALL TYPE 1 (5)	EACH															
1024	4 INCH PERFORATED PIPE HEADWALL TYPE 2 (5)	EACH															
1028	4 INCH PERFORATED PIPE HEADWALL TYPE 3 (5)	EACH															
1029	6 INCH PERFORATED PIPE HEADWALL TYPE 3 (5)	EACH															
1032	4 INCH PERFORATED PIPE HEADWALL TYPE 4 (5)	EACH															
1033	6 INCH PERFORATED PIPE HEADWALL TYPE 4 (5)	EACH															
1310	REMOVE PIPE	LF															
1691	FLUME INLET TYPE 2	EACH															
1741	CORED HOLE DRAINAGE BOX CON-6 IN (5)	EACH															
1787	REMOVE MANHOLE	EACH															
1891	ISLAND HEADER CURB TYPE 1	LF															
1955	CONC MEDIAN BARRIER 12C1	LF															
1982	DELINEATOR FOR GUARDRAIL M/W	EACH															
1985	DELINEATOR FOR BARRIER - MONO DIRECTIONAL YELLOW	EACH															
2014	BARRICADE-TYPE III	EACH															
2091	REMOVE PAVEMENT	SQ YD															
2159	TEMP DITCH	LF															
2160	CLEAN TEMP DITCH	LF															
2165	REMOVE PAVED DITCH (6)	SQYD															
2200	ROADWAY EXCAVATION (A)	CY	175,684	8,827	4,030	75,507	27,627	209									291,884
2262	FENCE-WOVEN WIRE TYPE 1	LF															
2265	REMOVE FENCE	LF															
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF															
2360	GUARDRAIL TERMINAL SECTION NO 1	EACH															
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH															
2367	GUARDRAIL END TREATMENT TYPE 1	EACH															
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH															
2381	REMOVE GUARDRAIL (3)	LF															
2387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	EACH															
2432	WITNESS POST	EACH															
2436	R/W MARKER RURAL TYPE 3	EACH															
2483	CHANNEL LINING CLASS II	TON															
2650	MAINTAIN AND CONTROL TRAFFIC	LS															
2545	CLEARING AND GRUBBING (1)	LS															
2562	SIGNS (2)	SQ FT															
2568	MOBILIZATION	LS															
2569	DEMOBILIZATION	LS															
2585	EDGE KEY	LF															
2600	FABRIC GEOTEXTILE TY IV FOR PIPE	SQ YD															
2650	MAINTAIN AND CONTROL TRAFFIC	LS															
2651	DIVERSIONS (BY-PASS DETOURS)	LS															
2655	CROSSOVER	LS															
2690	SAFELOADING	CY															
2696	SHOULDER RUMBLE STRIPS-SAWED	LF															
2701	TEMP SILT FENCE	LF															
2703	SILT TRAP TYPE A	EACH															
2704	SILT TRAP TYPE B	EACH															
2705	SILT TRAP TYPE C	EACH															
2706	CLEAN SILT TRAP TYPE A	EACH															
2707	CLEAN SILT TRAP TYPE B	EACH															
2708	CLEAN SILT TRAP TYPE C	EACH															

NOTES:

1. APPROXIMATELY 30.5 ACRES
2. FOR MAINTENANCE OF TRAFFIC
3. EXISTING GUARDRAIL SHALL BE REMOVED, DISASSEMBLED AND HAULED TO GRAVES COUNTY MAINTENANCE YARDS AS DIRECTED BY ENGINEER. QUANTITY INLCUDES 465 LF FROM SIGNING PLANS.
4. ESTIMATED AT 10% OF SEEDING AND PROTECTION
5. QUANTITIES BROUGHT FORWARD FROM PAVEMENT EDGE DRAIN SUMMARY
6. FOR BIDDING PURPOSES ONLY AT THE DISCRETION OF THE ENGINEER

A. ROADWAY EMBANKMENT INCLUDES:
184,533 CY EMBANKMENT

ROADWAY EXCAVATION INCLUDES:
251,308 CY EXCAVATION
24,517 CY EMBANKMENT BENCHING
15,874 CY TRANSVERSE BENCHING
185 CY DITCH EXCAVATION
291,884 CY TOTAL EXCAVATION

NOTES:

ESTIMATE FOR EARTHWORK CALCULATIONS FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.

PRELIMINARY
SUBJECT TO CHANGE

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\GENERAL_SUM_07232015.DGN
USER: ryan-s
DATE PLOTTED: July 27, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2F

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	I-69	US 45	KY 80	US 45 RAMPS	KY 80 RAMPS	APPROACHES / ENTRANCES									TOTAL PROJECT
2709	CLEAN TEMP SILT FENCE	LF															
2710	SCARIFYING AND RESHAPING	SQ YD															
2726	STAKING	LS															
2731	REMOVE STRUCTURE ②	LS															
2998	MASONRY COATING	SQ YD															
5950	EROSION CONTROL BLANKET	SQ YD															
5952	TEMP MULCH	SQ YD															
5953	TEMP SEEDING AND PROTECTION ③	SQ YD															
5966	TOPDRESSING FERTILIZER	TON															
5985	SEEDING & PROTECTION	SQ YD															
5989	SPECIAL SEEDING CROWN VETCH	SQ YD															
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF															
6514	PAVE STRIPING-PERM PAINT-4 IN	LF															
6515	PAVE STRIPING-PERM PAINT-6 IN	LF															
6517	PAVE STRIPIING-PERM PAINT-12 IN	LF															
6550	PAVE STRIPING-TEMP REM TAPE-W	LF															
6551	PAVE STRIPING-TEMP REM TAPE-Y	LF															
6567	PAVE MARKING-THERMO STOP BAR-12IN	LF															
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF															
6570	PAVE MARKING-PAINT CROSS-HATCH	SQ FT															
6592	PAVEMENT MARKER TYPE V-B W/R	EACH															
6593	PAVEMENT MARKER TYPE V-B Y/R	EACH															
8100	CONCRETE-CLASS A	CY															
8150	STEEL REINFORCEMENT	LB															
10020NS	FUEL ADJUSTMENT	DOLLAR															
10030NS	ASPHALT ADJUSTMENT	DOLLAR															
20071EC	JOINT ADHESIVE	LF															
20209EP69	GRANULAR PILE CORE ④	CY															
20259ED	TEMPORARY MEDIAN CROSSOVER (EMS)	EACH															
20411ED	LAW ENFORCEMENT OFFICER ①	HOUR															
21289ED	LONGITUDINAL EDGE KEY	LF															
21799EN	BORE AND JACK PIPE-24 IN	LF															
23274EN11F	TURF REINFORCEMENT MAT 1	SQ YD															
23791EC	PAVE STRIPING-CHEVRON MARKINGS	SQ FT															
23979EC	CRASH CUSHION TY VI CLASS C TL3	EACH															
24186EC	BORE AND JACK PIPE-36 IN	LF															
24489EC	INLAID PAVEMENT MARKERS	EACH															
24543EC	CLEAN	LF															
24599EC	CURE IN PLACE PIPE LINER (15 IN PIPE)	LF															
24599EC	CURE IN PLACE PIPE LINER (18 IN PIPE)	LF															
24599EC	CURE IN PLACE PIPE LINER (24 IN PIPE)	LF															
24599EC	CURE IN PLACE PIPE LINER (30 IN PIPE)	LF															
24599EC	CURE IN PLACE PIPE LINER (48 IN PIPE)	LF															
24599EC	CURE IN PLACE PIPE LINER (72 IN PIPE)	LF															
24654ED	SINGLE SLOPE MEDIAN BARRIER	LF															
	KY EROSION SPILL PREVENTION PLAN	LS															

NOTES:

① FOR ESTIMATE ONLY

② FOUR STRUCTURES - REMOVE KY 80 OVERPASS, PURCHASE PARKWAY OVERPASSES (2), AND 8'X5' RCBC AT STA. 1124+23 (152' RT)

③ ESTIMATED AT 10% OF SEEDING AND PROTECTION

④ FOR END BENT

PRELIMINARY
SUBJECT TO CHANGE

I-69
GENERAL SUMMARY

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: July 27, 2015
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\GENERAL_SUM_07232015.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R2G

PAVING AREAS

ITEM		I-69	US 45 RAMPS / US 45 NB TIE	US 45	KY 80	KY 80 RAMPS	MOT	APPROACHES / ENTRANCES	PROJECT TOTAL
		SQUARE YARDS							
TRAFFIC LANES									
1.50	INCH CL 3 ASPHALT SURFACE 0.50A PG 76-22								
3.00	INCH CL 3 ASPHALT BASE 1.00D PG 76-22								
3.00	INCH CL 3 ASPHALT BASE 1.00D PG 64-22								
3.00	INCH CL 3 ASPHALT BASE 1.00D PG 64-22								
4.00	INCH CL 3 ASPHALT BASE 1.00D PG 64-22								
3.50	INCH CL 3 ASPHALT BASE 1.00D PG 64-22								
6.00	INCH DRAINAGE BLANKET - TYPE II ASPH PG 64-22								
8.00	INCH DRAINAGE BLANKET - TYPE II ASPH PG 64-22								
4.00	INCH DGA BASE								
6.00	INCH DGA BASE								
SHOULDERS / MEDIAN									
1.50	INCH CL 2 ASPHALT SURFACE 0.50D PG 64-22								
3.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
3.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
4.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
6.00	INCH DRAINAGE BLANKET - TYPE II ASPH PG 64-22								
8.00	INCH DRAINAGE BLANKET - TYPE II ASPH PG 64-22								
10.00	INCH DRAINAGE BLANKET - TYPE II ASPH PG 64-22								
4.00	INCH DGA BASE								(4)
6.00	INCH DGA BASE								(4)
10.50	INCH DGA BASE								(4)
MAINTENANCE OF TRAFFIC									
1.50	INCH CL 2 ASPHALT SURFACE 0.50B PG 64-22								
3.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
3.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
6.00	INCH DGA BASE								
ENTRANCES AND APPROACHES									
1.50	INCH CL 2 ASPHALT SURFACE 0.50D PG 64-22								
2.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
3.00	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
3.25	INCH CL 2 ASPHALT BASE 1.00D PG 64-22								
4.00	INCH DGA BASE								
6.00	INCH DGA BASE								
8.00	INCH DGA BASE								
10.00	INCH DGA BASE								
	ASPHALT CURING SEAL								

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	I-69	US 45 RAMPS / US 45 NB TIE	US 45	KY 80	KY 80 RAMPS	MOT	APPROACHES / ENTRANCES	PROJECT TOTAL
1	DGA BASE (1)	TON								
18	DRAINAGE BLANKET TYP II ASPH PG 64-22 (2)	TON								
332	CL 3 ASPHALT SURFACE 0.50A PG 76-22	TON								
212	CL 2 ASPHALT BASE 1.00D PG 64-22	TON								
214	CL 3 ASPHALT BASE 1.00D PG 64-22	TON								
216	CL 3 ASPHALT BASE 1.00D PG 76-22	TON								
309	CL 2 ASPHALT SURFACE 0.50D PG 64-22	TON								
358	ASPHALT CURING SEAL (3)	TON								
194	LEVELING & WEDGING PG76-22	TON								
2677	ASPHALT MILLING & TEXTURING	TON								

ALL ASPHALT MIXTURES ARE 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 DETPH

(2) ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH

(3) ESTIMATED AT 2 LBS PER SQ. YD.

(4) QUANTITY CALCULATED BY AVERAGE END AREA METHOD

PRELIMINARY
SUBJECT TO CHANGE

I-69
PAVING SUMMARY

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\PAVING_SUM_07232015.DGN
USER: ryan-s
DATE PLOTTED: July 27, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2H

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 - 48 INCH	CULVERT PIPE - 54 INCH	CULVERT PIPE - 96 INCH	STORM SEWER PIPE - 15 INCH	STORM SEWER PIPE - 18 INCH	STORM SEWER PIPE - 24 INCH	STORM SEWER PIPE - 30 INCH	STORM SEWER PIPE - 36 INCH	PIPE CULVERT HEADWALL - 18 IN	PIPE CULVERT HEADWALL - 24 IN	PIPE CULVERT HEADWALL - 30 IN	PIPE CULVERT HEADWALL - 36 IN	PIPE CULVERT HEADWALL - 48 IN	SLOPED BOX OUTLET TYPE I - 15 INCH	SLOPED BOX OUTLET TY I - 18 IN	S&F BOX INLET-OUTLET - 18 IN
ITEM CODE					440	461	462	464	466	468	470	471	478	521	522	524	526	528	1204	1208	1210	1212	1216	1432	1433	1450
UNIT TO BID					LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
	I-69																									
	STA. 1058+00	0°	3	M																						
	STA. 1060+40	0°	3	M																						
	STA. 1060+81.4	29°45′	4	M																						
	STA. 1061+55	0°	3	M																						
	STA. 1062+36.7	0°	3	M																						
	STA. 1065+00	0°	3	M																						
	STA. 1065+98	0°	6.5	M																						
	STA. 1077+00	0°	2	M																						
	STA. 1079+98	0°	2	M																						
	STA. 1085+50	0°	2	M																						
	STA. 1088+49	0°	2	M																						
	STA. 1093+00	0°	1	M																						
	STA. 1095+99	0°	2	M																						
	STA. 1106+50	17°	5	M																						
	STA. 1110+50	0°	3.5	M																						
	STA. 1113+00	0°	5	M																						
	STA. 1115+20	0°	1	M																						
	STA. 1116+80	0°	2	M																						
	STA. 1117+22	0°	2	M																						
	STA. 1117+64	0°	2	M																						
	STA. 1119+50	0°	2	M																						
	STA. 1122+50	0°	6.5	M																						
	STA. 1123+30	35°	18	M																						
	STA. 1124+15	0°	20.5	M																						
	STA. 1126+00	0°	9	M																						
	STA. 1127+50	0°	2	M																						
	STA. 1129+00	0°	2	M																						
	STA. 1130+50	0°	2	M																						
	STA. 1132+00	0°	5.5	M																						
	STA. 1134+00	0°	2	M																						
	STA. 1136+50	0°	2	M																						
	STA. 1137+00	0°	2	M																						
	STA. 1138+50	0°	2	M																						
	STA. 1141+00	0°	2	M																						
	STA. 1142+35	0°	7.5	M																						
	STA. 1143+36	6°52′	3	M																						
	STA. 1144+00	0°	3	M																						
	STA. 1149+54	0°	3	M																						
	STA. 1152+50	0°	4.5	M																						
	STA. 1166+48	30°	3	M																						
	STA. 1174+21	25°07′16"	12.5	M																						
	STA. 1179+54	0°	2	M																						
	STA. 1182+53	0°	3	M																						
	KY 80																									
	STA. 48+50 RT.	0°		M																						
	STA. 48+72 LT.	0°		M																						
	STA. 51+44 RT.	0°		M																						
	STA. 51+65 LT.	0°		M																						
	STA. 58+65	0°	3	M																						
	STA. 59+77.3	N/A	3	M																						
SHEET TOTAL																										

PIPE DRAINAGE SUMMARY

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\PIPE SUMMARY SHEETS.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R21

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	S & F BOX INLET-OUTLET - 24 INCH	S & F BOX INLET-OUTLET - 30 INCH	S & F BOX INLET-OUTLET - 36 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	DROP BOX INLET TYPE 5D	DROP BOX INLET TYPE 5E	DROP BOX INLET TYPE 11	CONC MED BARR BOX INLET TY 14B1	JUNCTION BOX - 18 INCH	JUNCTION BOX - 24 INCH	FLUME INLET TYPE 2	PRECAST CONC BOX SECT 8X6	CONCRETE - CLASS A	STEEL REINFORCEMENT	CONC MEDIAN BARRIER BOX INLET TY 14A1	PIPELINE VIDEO INSPECTION	REMARKS
ITEM CODE					1451	1452	1453	1480	1490	1493	1505	1511	1514	1544	1616	1642	1643	1691	3018	8100	8150	20932ND	23131ER701	
UNIT TO BID					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	CU YD	LB	EACH	LIN FT	
	I-69																							
	STA. 1058+00	0°	3	M																				
	STA. 1060+40	0°	3	M																				
	STA. 1060+81.4	29°45'	4	M																				TIE TO EXISTING CROSS PIPE
	STA. 1061+55	0°	3	M																				
	STA. 1062+36.7	0°	3	M																				TIE TO EXISTING MEDIAN DRAIN
	STA. 1065+00	0°	3	M																				
	STA. 1065+98	0°	6.5	M																				EXTEND EXISTING CULVERT PIPE
	STA. 1077+00	0°	2	M																				
	STA. 1079+98	0°	2	M																				TIE TO EXISTING MEDIAN DRAIN
	STA. 1085+50	0°	2	M																				
	STA. 1088+49	0°	2	M																				TIE TO EXISTING MEDIAN DRAIN
	STA. 1093+00	0°	1	M																				
	STA. 1095+99	0°	2	M																				TIE TO EXISTING MEDIAN DRAIN
	STA. 1106+50	17°	5	M																				
	STA. 1110+50	0°	3.5	M																				
	STA. 1113+00	0°	5	M																				
	STA. 1115+20	0°	1	M																				
	STA. 1116+80	0°	2	M																				
	STA. 1117+22	0°	2	M																				
	STA. 1117+64	0°	2	M																				
	STA. 1119+50	0°	2	M																				
	STA. 1122+50	0°	6.5	M																				
	STA. 1123+30	35°	18	M																				
	STA. 1124+15	0°	20.5	M																				
	STA. 1126+00	0°	9	M																				
	STA. 1127+50	0°	2	M																				
	STA. 1129+00	0°	2	M																				
	STA. 1130+50	0°	2	M																				
	STA. 1132+00	0°	5.5	M																				
	STA. 1134+00	0°	2	M																				
	STA. 1136+50	0°	2	M																				
	STA. 1137+00	0°	2	M																				
	STA. 1138+50	0°	2	M																				
	STA. 1141+00	0°	2	M																				
	STA. 1142+35	0°	7.5	M																				
	STA. 1143+36	6°52'	3	M																				R/M EX. HW; TIE TO EX. PIPE
	STA. 1144+00	0°	3	M																				
	STA. 1149+54	0°	3	M																				R/M EX. HW; TIE TO EX. PIPE
	STA. 1152+50	0°	4.5	M																				
	STA. 1166+48	30°	3	M																				
	STA. 1174+21	25°07'16"	12.5	M																				R/M EX. HWS; TIE TO EX. PIPE
	STA. 1179+54	0°	2	M																				
	STA. 1182+53	0°	3	M																				
	KY 80																							
	STA. 48+50 RT.	0°		M																				
	STA. 48+72 LT.	0°		M																				
	STA. 51+44 RT.	0°		M																				
	STA. 51+65 LT.	0°		M																				
	STA. 58+65	0°	3	M																				
	STA. 59+77.3	N/A	3	M																				
SHEET TOTAL																								

PIPE DRAINAGE SUMMARY

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\PIPE SUMMARY SHEETS.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2J

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 - 48 INCH	CULVERT PIPE - 54 INCH	CULVERT PIPE - 96 INCH	STORM SEWER PIPE - 15 INCH	STORM SEWER PIPE - 18 INCH	STORM SEWER PIPE - 24 INCH	STORM SEWER PIPE - 30 INCH	STORM SEWER PIPE - 36 INCH	PIPE CULVERT HEADWALL - 18 IN	PIPE CULVERT HEADWALL - 24 IN	PIPE CULVERT HEADWALL - 30 IN	PIPE CULVERT HEADWALL - 36 IN	PIPE CULVERT HEADWALL - 48 IN	SLOPED BOX OUTLET TYPE I - 15 INCH	SLOPED BOX OUTLET TY I - 18 IN	S&F BOX INLET-OUTLET - 18 IN
ITEM CODE					440	461	462	464	466	468	470	471	478	521	522	524	526	528	1204	1208	1210	1212	1216	1432	1433	1450
UNIT TO BID					LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
	KY 80 RAMP A																									
	STA. 706+00	0°	2	M																						
	KY 80 RAMP B																									
	STA. 805+50	0°	3	M																						
	KY 80 RAMP D																									
	STA. 1007+06	0°	4	M																						
	US 45																									
	STA. 508+90	0°	2	M																						
	STA. 509+22	0°	2	M																						
	STA. 509+54	0°	2	M																						
	STA. 511+00	0°	2	M																						
	STA. 512+95	12°	20.5	M																						
	STA. 513+70	0°	2.5	M																						
	STA. 514+15	0°	2	M																						
	STA. 517+34	0°	2	M																						
	US 45 RAMP A																									
	STA. 109+77	3°20'	5	M																						
	STA. 115+50	0°	4.5	M																						
	US 45 RAMP C																									
	STA. 409+00	0°	5	M																						
	STA. 412+80	30°	16.5	M																						
	STA. 414+38	31°	20	M																						
	ENTRANCES																									
				M																						
	US 45 TEMP TIE IN																									
	STA. 605+12	0°	4	M																						
	TOTAL PROJECT																									

PIPE DRAINAGE SUMMARY

MicroStation v8.11.9.357
E-SHEET NAME:
USER: will
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\PIPE SUMMARY SHEETS.DGN

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2K

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	S & F BOX INLET-OUTLET - 24 INCH	S & F BOX INLET-OUTLET - 30 INCH	S & F BOX INLET-OUTLET - 36 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	DROP BOX INLET TYPE 5D	DROP BOX INLET TYPE 5E	DROP BOX INLET TYPE 11	CONC MED BARR BOX INLET TY 14BI	JUNCTION BOX - 18 INCH	JUNCTION BOX - 24 INCH	FLUME INLET TYPE 2	PRECAST CONC BOX SECT 8X6	CONCRETE - CLASS A	STEEL REINFORCEMENT	CONC MEDIAN BARRIER BOX INLET TY 14AI	PIPELINE VIDEO INSPECTION	REMARKS
ITEM CODE					1451	1452	1453	1480	1490	1493	1505	1511	1514	1544	1616	1642	1643	1691	3018	8100	8150	20932ND	23131ER701	
UNIT TO BID					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN FT	CU YD	LB	EACH	LIN FT	
	KY 80 RAMP A																							
	STA. 706+00	0°	2	M																				R/M EX. HW; TIE TO EX. PIPE
	KY 80 RAMP B																							
	STA. 805+50	0°	3	M																				
	KY 80 RAMP D																							
	STA. 1007+06	0°	4	M																				
	US 45																							
	STA. 508+90	0°	2	M																				
	STA. 509+22	0°	2	M																				
	STA. 509+54	0°	2	M																				
	STA. 511+00	0°	2	M																				
	STA. 512+95	12°	20.5	M																				
	STA. 513+70	0°	2.5	M																				
	STA. 514+15	0°	2	M																				
	STA. 517+34	0°	2	M																				
	US 45 RAMP A																							
	109+77	3°20′	5	M																				
	115+50	0°	4.5	M																				
	US 45 RAMP C																							
	409+00	0°	5	M																				
	412+80	30°	16.5	M																				
	414+38	31°	20	M																				
	ENTRANCES																							
	US 45 TEMP TIE IN																							
	STA. 605+12	0°	4	M																				
TOTAL PROJECT																								

PIPE DRAINAGE SUMMARY

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\PIPE SUMMARY SHEETS.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PERFORATED PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2L

SHEET	LEFT	MEDIAN	RIGHT	STATION	REMARKS	PERFORATED PIPE -4 IN	PERFORATED PIPE -6 IN	NON-PERFORATED PIPE -4 IN	NON-PERFORATED PIPE -6 IN	CORED HOLE DRAINAGE BOX CON	PERF PIPE HEADWALL TY 1-4 IN	PERF PIPE HEADWALL TY 2-4 IN	PERF PIPE HEADWALL TY 3-4 IN	PERF PIPE HEADWALL TY 4-4 IN	CRUSHED AGGREGATE SIZE NO 2
				ITEM CODE		1000	1001	1010	1011	23610NC	1020	1024	1028	1032	0078
				UNIT TO BID		LF	LF	LF	LF	EACH	EACH	EACH	EACH	EACH	TON

SHEET	LEFT	MEDIAN	RIGHT	STATION	REMARKS	PERFORATED PIPE -4 IN	PERFORATED PIPE -6 IN	NON-PERFORATED PIPE -4 IN	NON-PERFORATED PIPE -4 IN	CORED HOLE DRAINAGE BOX CON	PERF PIPE HEADWALL TY 1-4 IN	PERF PIPE HEADWALL TY 2-4 IN	PERF PIPE HEADWALL TY 3-4 IN	PERF PIPE HEADWALL TY 4-4 IN	CRUSHED AGGREGATE SIZE NO 2
				ITEM CODE		1000	1001	1010	1010	23610NC	1020	1024	1028	1032	0078
				UNIT TO BID		LF	LF	LF	LF	EACH	EACH	EACH	EACH	EACH	TON

PRELIMINARY
SUBJECT TO CHANGE

NOTE: QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY
FINAL QUANTITIES TO BE DETERMINED BY CONTRACTOR
DURING CONSTRUCTION.

I-69

PERFORATED PIPE DRAINAGE SUMMARY

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\PERF_PIPE_SUM_I-69.DGN
USER: ryan-s
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

GENERAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R2M

ACCESS CONTROL

KY 80 IS CONTROLLED BY PERMIT. I-69 AND US 45 ARE FULLY CONTROLLED ACCESS HIGHWAYS.

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 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 IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

LAW ENFORCEMENT OFFICER

IF POLICE ASSISTANCE IS DEEMED NECESSARY BY THE CONTRACTOR, IT SHALL BE PAID UNDER LAW ENFORCEMENT OFFICER BID ITEM CODE.

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.

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.

WINTER CLOSEDOWN

ANY ASPHALT CONCRETE BASE AND/OR SURFACE COURSE USED AS A RIDING SURFACE EXPOSED TO TRAFFIC DURING WINTER CLOSEDOWN PERIODS SHALL CONTAIN NATURAL, CONGLOMERATE, CRUSHED SLAG, CRUSHED GRANITE OR CRUSHED SANDSTONE SAND IN THE PROPORTION OF NO LESS THAN 25% OF THE TOTAL COMBINED COARSE AND FINE AGGREGATE

GUARDRAIL END TREATMENT

CONTRARY TO KYTC STANDARD DRAWING RBR-020-05 THE GUARDRAIL END TREATMENT ET-PLUS MANUFACTURED BY TRINITY INDUSTRIES WILL NOT BE PERMITTED AS AN OPTION FOR BID ITEM "GUARDRAIL END TREATMENT TYPE 1".

HOLIDAYS AND SPECIAL EVENTS

LISTED BELOW ARE DATES AND TIMES FOR HOLIDAYS AND SPECIAL EVENTS WHEN ROAD CLOSURES, LANE CLOSURES AND BLASTING WILL NOT BE ALLOWED.

2015		
THANKSGIVING	6:00 AM NOVEMBER 24	TO 6:00 AM NOVEMBER 30
CHRISTMAS/NEW YEARS	6:00 AM DECEMBER 23	TO 6:00 AM JANUARY 4
2016		
EASTER	6:00 AM MARCH 25	TO 6:00 AM MARCH 28
MEMORIAL DAY	6:00 AM MAY 27	TO 6:00 AM MAY 31
JULY 4TH	6:00 AM JULY 1	TO 6:00 AM JULY 5
FANCY FARM	4:00 PM AUGUST 5	TO 6:00 AM AUGUST 8
LABOR DAY	6:00 AM SEPTEMBER 2	TO 6:00 AM SEPTEMBER 6
THANKSGIVING	6:00 AM NOVEMBER 22	TO 6:00 AM NOVEMBER 28
CHRISTMAS/NEW YEARS	6:00 AM DECEMBER 22	TO 6:00 AM JANUARY 3
2017		
EASTER	6:00 AM APRIL 14	TO 6:00 AM APRIL 17
MEMORIAL DAY	6:00 AM MAY 26	TO 6:00 AM MAY 30
JULY 4TH	6:00 AM JULY 1	TO 6:00 AM JULY 5
FANCY FARM	4:00 PM AUGUST 4	TO 6:00 AM AUGUST 7
LABOR DAY	6:00 AM SEPTEMBER 1	TO 6:00 AM SEPTEMBER 5
THANKSGIVING	6:00 AM NOVEMBER 21	TO 6:00 AM NOVEMBER 27
CHRISTMAS/NEW YEARS	6:00 AM DECEMBER 23	TO 6:00 AM JANUARY 3
2018		
EASTER	6:00 AM MARCH 30	TO 6:00 AM APRIL 2
MEMORIAL DAY	6:00 AM MAY 25	TO 6:00 AM MAY 29

FUTURE HOLIDAY DATES SHALL BE DETERMINED BY THE DEPARTMENT IF NECESSARY, COMPARABLE TO ABOVE DATES. THE ABOVE DATES ARE SUBJECT TO CHANGE IF THE DEPARTMENT DEEMS NECESSARY.

SPECIAL NOTES

SPECIAL NOTE 11 FOR PORTABLE CHANGEABLE MESSAGE SIGNS

SPECIAL NOTE 9Y FOR MATERIAL TRANSFER VEHICLE

SPECIAL NOTE 11D FOR ROCK BLASTING

SPECIAL NOTE 11F FOR TURF REINFORCING MAT

SPECIAL NOTE 11M FOR BAR CODE LABEL ON PERMANENT SIGNS

SPECIAL NOTE 11N FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE

SPECIAL PROVISIONS

SPECIAL PROVISION 69 FOR EMBANKMENT AT BRIDGE END BENT STRUCTURES

COMPLETION DATES AND LIQUIDATED DAMAGES

THIS PROJECT HAS A FIXED COMPLETION DATE OF JULY, 1 2018 AND STANDARD LIQUIDATED DAMAGES WILL APPLY AS PER CURRENT KYTC STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION.

KY 80 BRIDGE CAN BE CLOSED FOR CONSTRUCTION BEGINNING MARCH 1, 2016. RAMPS WILL REMAIN OPEN AT ALL TIMES. CONSTRUCTION OF KY 80, KY 80 RAMPS, AND APPROACHES SHALL BE TO FINAL GRADE LESS FINAL SURFACE AND MUST BE COMPLETED BY JUNE 30, 2016. CONTRARY TO STANDARD SPECIFICATIONS, LIQUIDATED DAMAGES WILL BE CHARGED IN THE AMOUNT OF $10,000 PER DAY AND WILL BE CHARGED DURING THE WINTER SHUTDOWN PERIOD.

US 45 BYPASS (SECTION FROM US 45 TO KY 80) CAN BE CLOSED FOR CONSTRUCTION BEGINNING APRIL 1, 2017 AND MUST BE OPEN TO TWO WAY TRAFFIC BY NOVEMBER 30, 2017. CONTRARY TO STANDARD SPECIFICATIONS, LIQUIDATED DAMAGES WILL BE CHARGED IN THE AMOUNT OF $10,000 PER DAY AND WILL BE CHARGED DURING THE WINTER SHUTDOWN PERIOD.

CARDINAL ROAD OVERPASS

CONTRACTOR SHALL MAINTAIN 16 FOOT VERTICAL CLEARANCE BETWEEN THE CARDINAL ROAD OVERPASS BRIDGE AND I-69. THE 16 FOOT VERTICAL CLEARANCE REQUIREMENT INCLUDES THE INSIDE AND OUTSIDE PAVED SHOULDERS ON I-69.

REMOVE PAVEMENT / REMOVE PIPE / REMOVE PAVED DITCH

THE CONTRACTOR SHALL GRADE TO DRAIN AREAS OF PAVEMENT REMOVAL, PAVED DITCH REMOVAL AND PIPE REMOVAL. GRADE TO DRAIN IS INCIDENTAL TO PAVEMENT REMOVAL, REMOVE PAVED DITCH, AND REMOVE PIPE BID ITEMS.

UTILITY COORDINATION

UTILITY RELOCATION WILL OCCUR DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH UTILITY COMPANIES DURING THE UTILITY RELOCATION.

EMS COORDINATION

DURING CONSTRUCTION OF THE KY 80 BRIDGE, THE CONTRACTOR WILL CONSTRUCT TEMPORARY MEDIAN CROSSINGS AT THE END OF THE RAMP TERMINALS. CONTRACTOR WILL COORDINATE WITH EMS AND ENGINEER ON SPECIFIC LOCATIONS AND LAYOUT REQUIREMENTS DURING THE CONSTRUCTION. MAINTENANCE OF THE TEMORARY MEDIAN CROSS OVERS WILL BE INCIDENTAL TO TEMPORARY MEDIAN CROSSOVER (EMS) BID ITEM.

UTLITY / SANITARY SEWER

THE EXISTING SANITARY SEWER LINE AT I-69 STA. 1160+77 IS SHALLOW AND MAY BE EXCAVATED DURING CONSTRUCTION OF MAINLINE AND RAMPS. CONTRACTOR WILL COORDINATE WITH UTILITY COMPANY THE TIMING OF CONSTRUCTION IN THE VICINITY OF THE SANITARY SEWER LINE. CONTRACTOR WILL SAFELOAD ANY UTILITY CONDUIT OR SANITARY SEWER LINE UNDER MAINLINE OR RAMPS THAT IS NOT EXCAVATED DURING CONSTRUCTION. CONTRACTOR WILL REMOVE SANITARY SEWER LINE MANHOLES, CAP AND SAFELOAD AS DIRECTED BY ENGINEER. BID ITEM SAFELOAD WILL INCLUDE SAFELOAD PIPES AND MANHOLES.

GENERAL NOTES

MicroStation v8.11.9.357 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 31, 2015 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\GENERAL_NOTES.DGN

FILE NAME: C:\PW_WORKDIR\WILL\DMS0140\R00300PL.DGN
USER: will
DATE PLOTTED: May 7, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

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

UTILITY OWNERS

Power
West Kentucky R.E.C.C.
P.O Box 589
Mayfield, KY 42066
Phone: 270-251-6948
Contact: Tim Vied

West Kentucky Electric and Water
301 E Broadway
Mayfield, KY 42066
Phone: 270-247-4661
Contact: Jason Weatherly
jweatherly@mewsbb.com

Telephone
West Kentucky Rural Telephone
237 N 8th Street
P.O. Box 649
Mayfield, KY 42066
Contact : Tim Merrick 270-705-1816
timmerrick@wk.net

AT&T
1200 Old Mayfield Rd.
Paducah, KY, 42001
Contact: Alan Shelby
Phone: 270-444-5048

Water
Mayfield Electric and Water
301 E Broadway
Mayfield, KY 42066
Contact: Kevin Leonard
Phone: 270-247-4661

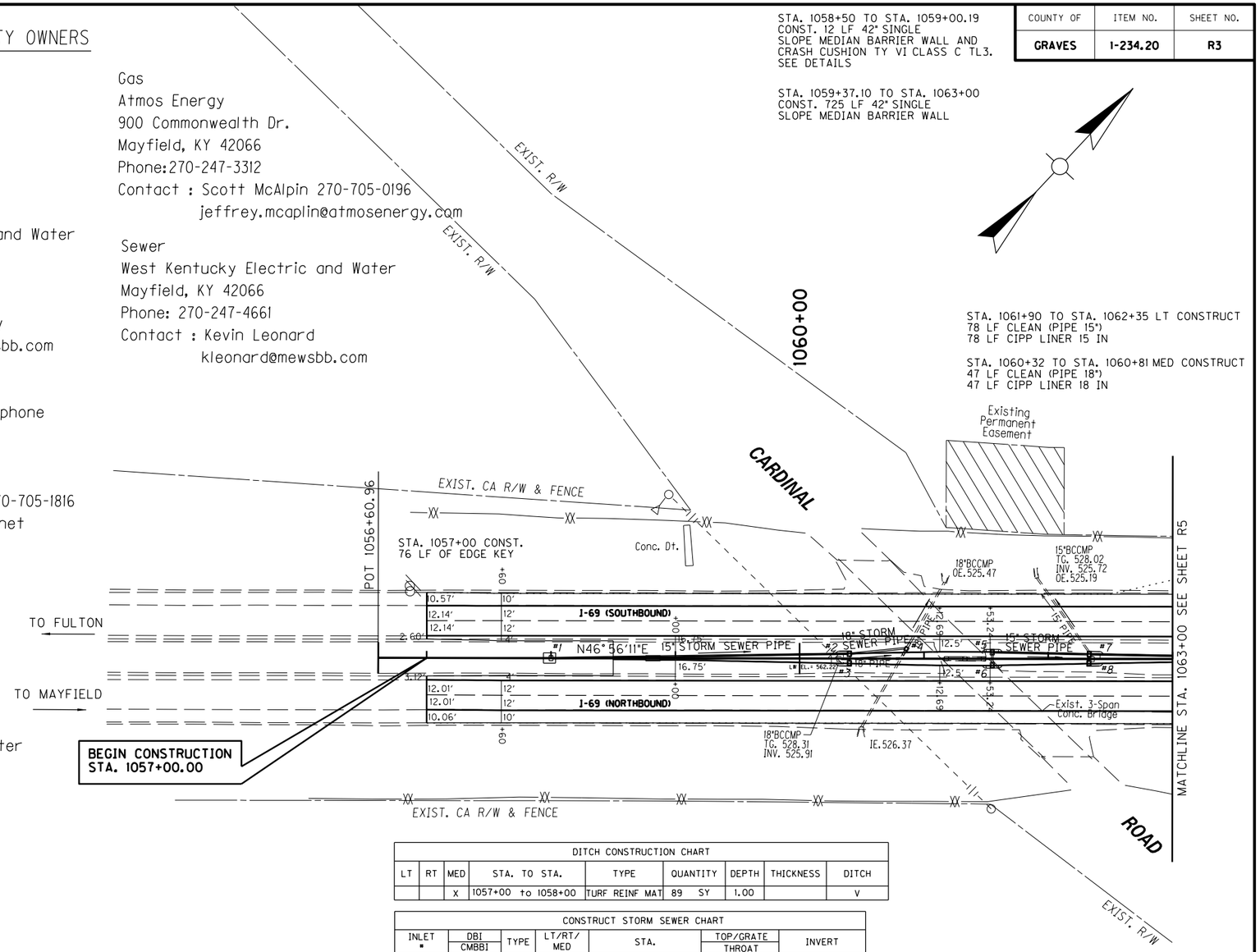
Gas
Atmos Energy
900 Commonwealth Dr.
Mayfield, KY 42066
Phone:270-247-3312
Contact : Scott McAlpin 270-705-0196
jeffrey.mcaplin@atmosenergy.com

Sewer
West Kentucky Electric and Water
Mayfield, KY 42066
Phone: 270-247-4661
Contact : Kevin Leonard
kleonard@mewsbb.com

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R3

STA. 1058+50 TO STA. 1059+00.19
CONST. 12 LF 42" SINGLE
SLOPE MEDIAN BARRIER WALL AND
CRASH CUSHION TY VI CLASS C TL3.
SEE DETAILS

STA. 1059+37.10 TO STA. 1063+00
CONST. 725 LF 42" SINGLE
SLOPE MEDIAN BARRIER WALL



STA. 1061+90 TO STA. 1062+35 LT CONSTRUCT
78 LF CLEAN (PIPE 15")
78 LF CIPP LINER 15 IN

STA. 1060+32 TO STA. 1060+81 MED CONSTRUCT
47 LF CLEAN (PIPE 18")
47 LF CIPP LINER 18 IN

STA. 1060+50 RT TO STA. 1061+15 LT CONSTRUCT
134 LF CLEAN (PIPE 18")
134 LF CIPP LINER 18 IN

SCALE: 1"=50'

DITCH CONSTRUCTION CHART

LT	RT	MED	STA. TO STA.	TYPE	QUANTITY	DEPTH	THICKNESS	DITCH
		X	1057+00 to 1058+00	TURF REINF MAT	89 SY	1.00		V

CONSTRUCT STORM SEWER CHART

INLET #	DBI / CMBBI	TYPE	LT/RT/MED	STA.	TOP/GRATE / THROAT	INVERT
#1	DBI	5D	MED	1058+00	529.12	527.46
#2	CMBBI	14BI	MED	1060+40 LT	530.37	526.27
#3	CMBBI	14BI	MED	1060+40 RT	530.25	526.74
#4	JBX		LT	1060+81		525.88
#5	CMBBI	14BI	MED	1061+55 LT	530.35	526.14
#6	CMBBI	14BI	MED	1061+55 RT	530.12	526.33
#7	CMBBI	14BI	MED	1062+37 LT	529.47	525.69
#8	CMBBI	14BI	MED	1062+37 RT	530.18	526.02

PRELIMINARY
SUBJECT TO CHANGE

CARDINAL ROAD OVERPASS

CONTRACTOR SHALL MAINTAIN 16 FOOT VERTICAL CLEARANCE BETWEEN THE CARDINAL ROAD OVERPASS BRIDGE AND I-69. THE 16 FOOT VERTICAL CLEARANCE REQUIREMENT INCLUDES THE INSIDE AND OUTSIDE PAVED SHOULDERS ON I-69.

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.

0' 50' 100' 200'

DESIGNED BY:
DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

GRAVES

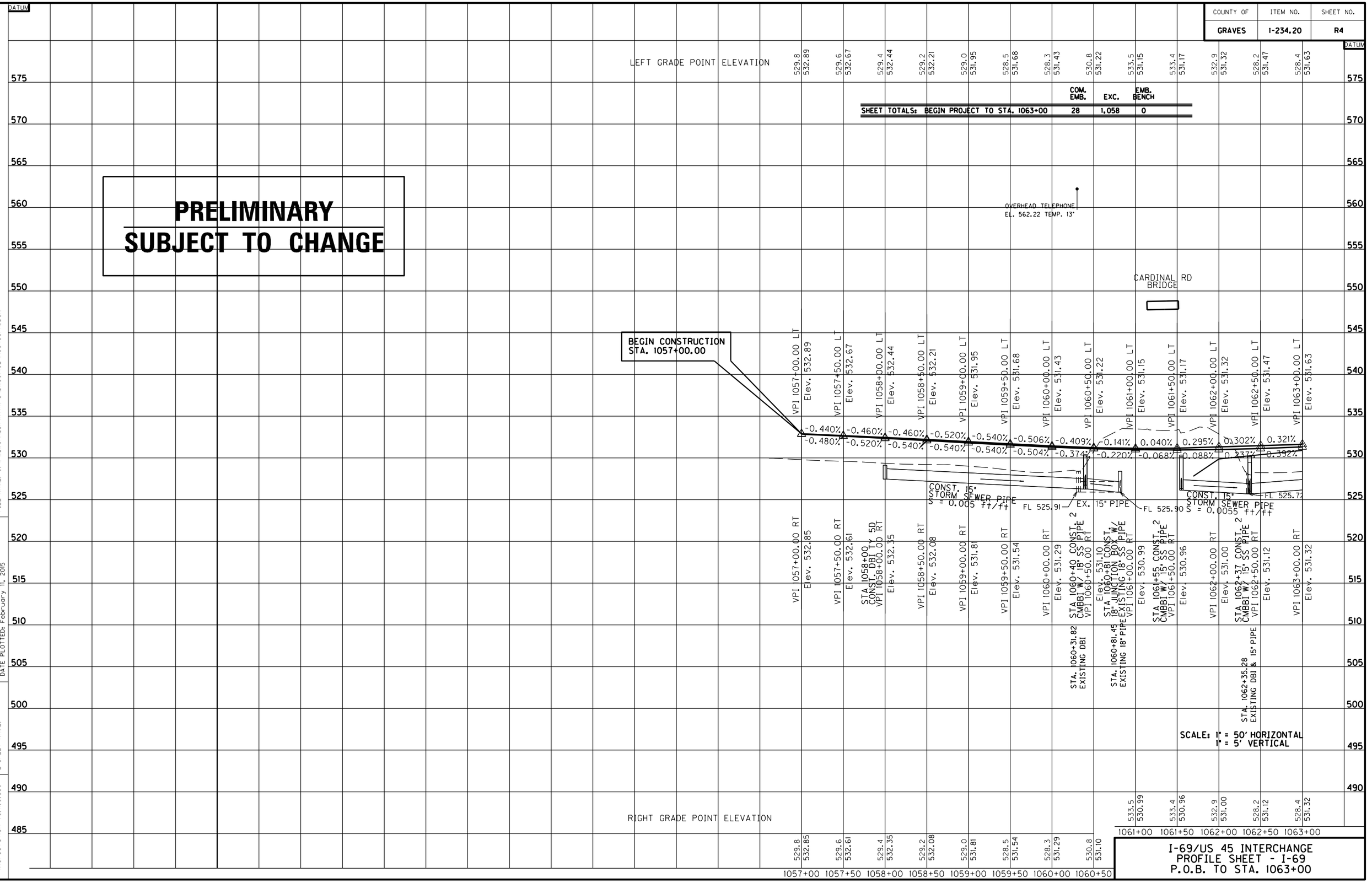
PROJECT NUMBERS: 1-234.20

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
P.O.B. TO STA. 1063+00

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R4

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: BEGIN PROJECT TO STA. 1063+00	28	1,058	0



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

I-69/US 45 INTERCHANGE
PROFILE SHEET - I-69
P.O.B. TO STA. 1063+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R00400PR.DGN
USER: ryan-s
DATE PLOTTED: February 11, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R5

CONSTRUCT STORM SEWER CHART						
INLET #	DBI / CMBBI	TYPE	LT/RT/ MED	STA.	TOP/GRATE / THROAT	INVERT
#9	CMBBI	14BI	MED	1065+00	531.73	527.67
#10	CMBBI	14BI	MED	1077+00	533.31	528.30

STA. 1063+00 TO STA. 1063+28.25
CONST. 57 LF 42" SINGLE SLOPE
MEDIAN BARRIER WALL

STA. 1063+66 TO STA. 1078+00
CONST. 1384 LF 42" SINGLE SLOPE
MEDIAN BARRIER WALL

STA. 1065+98 CONSTRUCT
139 LF CLEAN (PIPE 18")
139 LF CIPP LINER 18 IN

STA. 1076+49 CONSTRUCT
123 LF CLEAN (PIPE 18")
123 LF CIPP LINER 18 IN

Existing Permanent Easement

EXIST. CA R/W & FENCE

18" BCCMP
OE. 525.74

MATCHLINE STA. 1063+00 SEE SHEET R3

MATCHLINE STA. 1078+00 SEE SHEET R7

10'
12'
12'
16.75'
16.75'
12'
12'
10'

I-69 (SOUTHBOUND)

1000' MEDIAN TAPER

I-69 (NORTHBOUND)

139 LF 18" RCP

123 LF 18" RCP

15" STORM SEWER PIPE #9

1ST STORM SEWER PIPE #10

THR = 533.31
O/E = 528.30

16.75'

92.99'

IE. 526.86

I/E = 526.92

18" CULVERT PIPE

Conc. Dt.

Conc. Dt.

IE. 529.66

18" BCCMP
OE. 527.95

EXIST. CA R/W & FENCE

Conc. Dt.

Existing Permanent Easement

CARDINAL ROAD

EXIST. R/W

EXIST. R/W

PRELIMINARY
SUBJECT TO CHANGE

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1063+00 TO 1078+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DM50140\R00500PL.DGN
USER: ryan-s
DATE PLOTTED: April 16, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R6

LEFT GRADE POINT ELEVATION

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 1063+00 TO STA. 1078+00	982	1,711	0

RIGHT GRADE POINT ELEVATION

CONST. 15" STORM SEWER PIPE @ 0.0075 FT/FT

STA. 1065+98.11 EXISTING 18" PIPE

STA. 1076+48.92 EXISTING 18" PIPE

STA 1065+00 CONST. CMBBI

STA 1077+00 CONST. CMBBI THR = 538.31 O/E = 528.30 H = 5.00'

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

I-69/US 45 INTERCHANGE
PROFILE SHEET - I-69
STA. 1063+00 TO STA. 1078+00

C:\PW_WORKDIR\RYAN-S\DMS01402\R00600PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
FILE NAME: C:\PW_WO
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R7

STA. 1078+00 TO STA. 1093+00
CONST. 1400 LF 42" SINGLE SLOPE
MEDIAN BARRIER WALL

CONSTRUCT STORM SEWER CHART

INLET #	DBI CMBBI	TYPE	LT/RT/ MED	STA.	TOP/GRATE THROAT	INVERT
#11	CMBBI	14B1	MED	1079+98	528.72	523.73
#12	CMBBI	14B1	MED	1085+50	517.01	511.44
#13	CMBBI	14B1	MED	1088+49	512.05	506.87
#14	CMBBI	14B1	MED	1093+00	509.20	504.20

PI 1081+22.22

1080+00

1085+00

1090+00

I-69 MAINLINE
PI STA. 1081+22.22
Δ= 44°17'58" RT.
T=1749.26'
L=3322.47'
R=4297.19'
E=342.39'
e=3.1%
DESIGN SPEED=60 MPH

STA. 1084+46 LT TO STA. 1085+35 RT CONSTRUCT
178 LF CLEAN (PIPE 30")
178 LF CIPP LINER 30 IN

STA. 1084+46 LT CONSTRUCT
55 LF CLEAN (PIPE 18")
55 LF CIPP LINER 18 IN

STA. 1079+98 LT CONSTRUCT
56 LF CLEAN (PIPE 18")
56 LF CIPP LINER 18 IN

STA. 1084+46 RT CONSTRUCT
69 LF CLEAN (PIPE 18")
69 LF CIPP LINER 18 IN

GREENHILL CT.

SILVER CT.

RONALD FAIR
AND TAMMY (WF)

WALDROP AND
WALDROP, LLC

DOUG LINDSEY
AND KIMBERLEE (WF)

DOUG LINDSEY
AND KIMBERLEE (WF)

2-S Frame

1-S Frame

Garage

Asphalt

Conc.

Grass

EXIST. CA R/W & FENCE

30" BCCMP
IE. 511.88

18"BCCMP
TG. 526.09
IE. 523.74
OE.523.44

THR = 528.72
O/E = 523.73

THR = 517.01
O/E = 511.44

I-69 (SOUTHBOUND)

I-69 (NORTHBOUND)

18" STORM SEWER PIPE

1000' MEDIAN TAPER

OE. 510.83
(NO HEADWALL)

18" BCCMP
IE. 507.96

18" BCCMP
TG. 509.12
INV. 506.87

18" BCCMP
THR = 512.05
O/E = 506.95
O/E = 506.87

THR = 509.20
O/E = 504.20

OE. 503.86
18" BCCMP

Conc. Dt.

MATCHLINE STA. 1078+00 SEE SHEET R5

MATCHLINE STA. 1093+00 SEE SHEET R9

PRELIMINARY
SUBJECT TO CHANGE

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1078+00 TO 1093+00

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: April 16, 2015
FILE NAME: C:\PW_WORKDIR\RYAN-S\D0540101R00700PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R8

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 1078+00 TO STA. 1093+00	926	1,240	0

PRELIMINARY
SUBJECT TO CHANGE

LEFT GRADE POINT ELEVATION

RIGHT GRADE POINT ELEVATION

CONST. 15" STORM SEWER PIPE S = 0.015 FT/FT

FL 523.74

FL 511.43

FL 506.87

STA. 1079+98 CONST. CMBBI THR = 529.72 I/E = 523.81 O/E = 523.73 H = 5.00'

STA. 1079+97.85 EXISTING DBI & 18" PIPE

STA. 1084+84.65 EXISTING 30" PIPE

STA 1085+50 CONST. CMBBI THR = 517.01 O/E = 511.44 H = 5.57'

STA 1088+49 CONST. CMBBI THR = 512.05 I/E = 506.95 O/E = 506.95 H = 5.18'

STA. 1088+49.08 EXISTING DBI & 18" PIPE

STA 1093+00 CONST. CMBBI THR = 509.20 O/E = 504.20 H = 5.00'

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

I-69/US 45 INTERCHANGE
PROFILE SHEET - I-69
STA. 1078+00 TO STA. 1093+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R00800PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R9

GRAVES COUNTY LAKE CORPORATION

STA. 1093+00 TO STA. 1108+00
CONST. 1475 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

CONSTRUCT STORM SEWER CHART

INLET	DBI / CMBBI	TYPE	FACE	STA.	TOP/GRATE THROAT	INVERT
#15	CMBBI	14BI	MED	1095+99	507.72	502.62
#16	DBI	5B	RT	1106+71	500.00	495.93

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART

LT	RT	W.E. 512.2 STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)
	X	1095+50 - 1096+96	92	1	
	X	100+00 - 100+70	70		1

EXISTING PAVEMENT REMOVAL CHART

LT	RT	STA. TO STA.	SY
X		1105+06 - 1105+90	66
X		1106+30 - 1108+00	325

EXISTING GUARDRAIL REMOVAL CHART

LT	RT	STA. TO STA.	LF
X		1106+42 - 1108+00	159

W.E. 501.7

FIELD CREST DR.
Asphalt
Grass
Conc.
I-S-Frame
1095+00
1100+00
1105+00
LENNY WILSON AND PATRICIA (WF)
JOSH BAILEY AND TIFFANY (WF)
JAMES RONALD
WALDROP AND WALDROP, LLC
RANDVIEW SEPTIC CORPORATION
EXIST. CA R/W & FENCE
PT 1096+95.43
OE. 489.41
15"BCCMP TC. 500.63 INV. 498.53 OE. 497.80 (REMOVE)
15"BCCMP TR. 504.16 INV. 499.53 OE. 498.27 (REMOVE)
24" BCCMP OE. 496.11 (REMOVE)
15" BCCMP TR. 502.24 INV. 497.89 OE. 496.82
O/E = 493.97 (REMOVE)
PC 1107+10.12
MATCHLINE STA. 1093+00 SEE SHEET R7
MATCHLINE STA. 1108+00 SEE SHEET R11
I-69 (SOUTHBOUND)
I-69 (NORTHBOUND)
T/C = 507.72
I/E = 502.62
O/E = 502.62
18" STORM SEWER PIPE
72" PIPE
265 LF
S88°45'51"E
3°53'24" 15"BCCMP
T/C = 504.91
INV. 502.61
T.Y. 1
OE. 502.13
T.Y. 2A
S84°57'00"E
510' TAPER
OH Truss Sign
360' TAPER
100' TAPER
300' TAPER
12" CULVERT PIPE
IE. 499.28
#16
T/C = 500.00
I/E = 496.04
OE. 495.93
24" CULVERT PIPE
US 45 RAMP A
S84°11'26"E
IE. 491.77
Conc. Dt.
15"BCCMP TR. 504.30 INV. 499.75 OE. 499.57 (HDWL. ERODED) (REMOVE)
15"BCCMP TR. 503.50 INV. 500.70 OE. 500.45 (REMOVE)
(REMOVE) 15"BCCMP TR. 504.64 INV. 502.34 OE.501.34 (REMOVE)
24"BCCMP IE. 499.82
I/E = 497.96
EXIST. CA R/W
POT 100+00.00
PC 103+28.72
PI 103+76.12
PT 104+23.51
Existing Permanent Easement
STA. 1095+99 CONSTRUCT
60 LF CLEAN (PIPE 15")
60 LF CIPP LINER 15 IN
CLOYS BRUCE
STA. 1100+18 RT TO STA. 1101+88 LT CONSTRUCT
265 LF CLEAN (PIPE 72")
265 LF CIPP LINER 72 IN
105+00
110+00
US 45 RAMP A
PI STA. 103+76.12
Δ= 0°45'35" RT.
T=47.40'
L=94.79'
R=7150.00'
E=0.16'
e=2.0%
DESIGN SPEED=40 MPH
SIDES LIMITED PARTNERSHIP
(1)

W.E. 504.2

PRELIMINARY
SUBJECT TO CHANGE

REMOVE EXISTING PAVEMENT

DITCH CONSTRUCTION CHART

LT	RT	MED	STA. TO STA.	TYPE	QUANTITY	DEPTH	THICKNESS	DITCH
	X		105+00 to 107+00	ERO BLANKET	178 SY	1.00		2.0 F.B.
	X		107+00 to 109+75	ERO BLANKET	244 SY	1.00		2.0 F.B.
	X		109+85 to 111+19	ERO BLANKET	119 SY	1.00		2.0 F.B.
	X		1102+50 to 1106+65	TURF REINF MAT	553 SY	1.00		V
	X		1106+77 to 1108+00	TURF REINF MAT	164 SY	1.00		V
X			1104+50 to 1106+00	TURF REINF MAT	167 SY	1.00		V

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1093+00 TO 1108+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DM50140\R09090PL.DGN
USER: ryan-s
DATE PLOTTED: April 16, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R10

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 1093+00 TO STA. 1108+00	606	12,611	0

PRELIMINARY
SUBJECT TO CHANGE

LEFT GRADE POINT ELEVATION

RIGHT GRADE POINT ELEVATION

-0.500%

-0.613%

-0.500%

-0.93% -1.03% -0.94% -1.00% -0.62% -0.50% -0.52% -0.88% -1.10% -1.07% 0.52% 1.06% 1.36%

CONST. 18" STORM SEWER PIPE = 0.005 FT/FT

FL 502.61

VPI 1096+50.00 RT
Elev. 508.67

PVC 1096+25.00 RT
Elev. 508.79
L 50.00'
SD 9577'
K 443

PVT 1096+75.00 RT
Elev. 508.61

STA 1093+00
CONST. CMBBI
THR = 509.20
O/E = 504.20
H = 5.00'

STA 1095+99
CONST. CMBBI
THR = 507.72
I/E = 502.70
O/E = 502.62
H = 5.10'

STA. 1095+98.99
EXISTING DBI & 15" PIPE

PVC 1099+75.00 RT
Elev. 506.68

L 50.00'
SD 2049'
K 555

PVT 1100+25.00 RT
Elev. 506.39

VPI 1100+00.00 RT
Elev. 506.52

FL 495.23

STA. 1101+05.28
EXISTING 72" PIPE

FL 498.53

STA. 1103+98.82
EXISTING DBI & 15" PIPE

SPCL. V DITCH RT.

FL 498.10

FL 495.21

SPCL. V DITCH RT.

STA. 1105+70 CONST. TRANSVERSE UNDERDRAIN DRAIN TO DBI

STA. 1106+30.15
EXISTING 24" PIPE

STA. 1106+46 CONST. 24" PIPE W/ 1 - 24" PIPE CULVERT HEADWALL

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

1093+00	1093+50	1094+00	1094+50	1095+00	1095+50	1096+00	1096+50	1097+00	1097+50	1098+00	1098+50	1099+00	1099+50	1100+00	1100+50	1101+00	1101+50	1102+00	1102+50	1103+00	1103+50	1104+00	1104+50	1105+00	1105+50	1106+00	1106+50	1107+00	1107+50	1108+00
507.2 / 510.42	507.2 / 510.17	507.0 / 509.92	506.6 / 509.67	506.6 / 509.42	505.9 / 509.17	504.9 / 508.92	505.3 / 508.66	505.7 / 508.36	504.9 / 508.05	504.6 / 507.75	504.3 / 507.44	503.9 / 507.13	503.8 / 506.83	503.3 / 506.53	503.1 / 506.26	503.2 / 506.00	503.0 / 505.74	502.8 / 505.48	502.1 / 505.21	501.7 / 504.95	502.3 / 504.69	500.7 / 504.43	502.2 / 504.17	501.7 / 503.91	502.4 / 503.65	503.3 / 503.39	504.8 / 503.12	504.6 / 502.86	506.1 / 502.60	508.2 / 502.34

I-69/US 45 INTERCHANGE
PROFILE SHEET - I-69
STA. 1093+00 TO STA. 1108+00

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: November 19, 2014
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R10000PR.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	RII

STA. 1108+00 TO STA. 1120+00
CONST. 1075 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

STA. 510+00 TO STA. 519+83
CONST. 883 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

RT. STA. 206+42 TO STA. 211+43
CONST. 256 LF OF C/A FENCE

RT. STA. 208+57 TO STA. 211+43
REMOVE 125 LF FENCE

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART

		STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)	BRIDGE END CONN. TY A (EA)	BRIDGE END CONN. TY AI (EA)
LT	RT						
	X	511+50 - 514+63	254	1		1	1
	X	517+06 - 519+83	279				
X		516+82 - 519+83	319			1	
X		510+00 - 514+40	424		1		1

EXISTING PAVEMENT REMOVAL CHART			
LT	RT	STA. TO STA.	SY
X		1108+00 - 1115+42	1230
	X	1111+05 - 1113+64	639
	X	1113+40 - 1113+78	35
	X	1116+93 - 1120+00	1371
	X	1117+94 - 1120+00	700
	X	517+16 - 519+83	808
	X	517+33 - 519+83	686

EXISTING GUARDRAIL REMOVAL CHART			
LT	RT	STA. TO STA.	LF
X		1108+00 - 1108+64	59
	X	1111+02 - 1113+48	278
	X	1112+62 - 1113+48	116
X		1115+22 - 1115+43	16
	X	1116+93 - 1120+53	433
	X	1117+69 - 1118+15	56
	X	1118+50 - 1120+03	174

CONSTRUCT STORM SEWER CHART

INLET #	INLET DBI	INLET CMBBI	TYPE	LT/RT/MED	STA.	TOP/GRATE THROAT	INVERT
#17		CMBBI	14BI	MED	1110+50	500.27	494.72
#18		DBI	5B	RT	1113+00	498.89	493.69
#19		CMBBI	14BI	MED	1115+20	497.82	493.68
#20		CMBBI	14BI	MED	1116+80	497.04	492.01
#21		CMBBI	14BI	MED	1117+22	496.99	492.30
#22		CMBBI	14BI	MED	1117+64	497.04	492.79
#23		CMBBI	14BI	MED	1119+50	497.98	493.80
#24		CBI	A	MED	511+00	520.47	516.61
#25		CBI	A	MED	513+70	525.42	520.50
#26		CBI	A	MED	514+15	525.63	520.20
#27		CBI	A	RT	514+15	525.17	519.69
#28		CBI	A	MED	517+34	520.21	515.04
#29		CBI	A	RT	517+34	519.52	514.47

REMOVE EXISTING PAVEMENT

MATCHLINE STA. 415+00 SEE SHEET R13

MATCHLINE STA. 1120+00 SEE SHEET R13

MATCHLINE STA. 1108+00 SEE SHEET R9

MATCHLINE STA. 510+00 SEE SHEET R23

MATCHLINE SEE SHEET R13A

LAKESHORE DR.

WALDROP AND WALDROP, LLC

AGAPE PROPERTIES LIMITED

I-5-Fr.

Sh.

Conc.

Asphalt

C. Link

EXIST. CA R/W & FENCE

Concrete Barrier

Raised Curb

Conc. Dt.

Conc. Parking

Dirt

Gr

Ground Mt. Panel Sign

Inlet Buried TG. 513.93 INV. 506.63

15"BCCMP TR. 497.30 INV. 491.90 OE.489.80 (REMOVE)

18"BCCMP OE.503.53 (REMOVE)

(REMOVE) 15"BCCMP TR 507.98 INV. 503.58 OE.503.07

(REMOVE) 15"BCCMP OE. 503.10

(REMOVE) 18" BCCMP IE. 496.47 OE.495.28

15"BCCMP TG. 523.77 INV. 519.77 OE.507.65

15"BCCMP TG. 523.60 INV. 520.15

15"BCCMP TG 524.00 INV. 520.40 (REMOVE)

18" STORM SEWER PIPE

15" STORM SEWER PIPE

24" CULVERT PIPE

30" CULVERT PIPE

18" CULVERT PIPE

36" CULVERT PIPE

Existing 4 Span Conc. Bridge

Pvd. Area

US 45 BYPASS STA. 517+64.30 = US 45 RAMP C STA. 417+25.07

US 45 BYPASS STA. 517+64.25 = US 45 RAMP D STA. 300+00.00

I-69 ML STA. 1114+72.46 = US 45 BYPASS STA. 515+53.70

US 45 RAMP D
PI STA. 301+47.28
Δ= 23°26'16" RT.
T=147.28'
L=290.44'
R=710.00'
E=15.11'
e=6.2%
DESIGN SPEED=35 MPH

I-69 MAINLINE
PI STA. 1127+72.83
Δ= 115°21'36" LT.
T=2062.71'
L=2627.50'
R=1305.00'
E=1135.86'
e=8.0%
DESIGN SPEED=60 MPH

US 45 RAMP A
PI STA. 117+55.05
Δ= 84°15'26" RT.
T=451.86'
L=734.87'
R=500.00'
E=173.93'
e=8.0%
DESIGN SPEED=40 MPH

US 45 RAMP B
PI STA. 210+02.07
Δ= 22°55'50" RT.
T=145.22'
L=286.55'
R=716.00'
E=14.58'
e=7.0%
DESIGN SPEED=40 MPH

US 45 BYPASS
PI STA. 510+82.50
Δ= 9°25'29" LT.
T=206.91'
L=412.88'
R=2510.00'
E=8.51'
e=3.0%
DESIGN SPEED=40 MPH

PI 301+47.28

PC 300+00.00

PT 417+25.07

PC 113+03.19

PI 117+55.05

PT 512+88.48

PI 510+82.50

PT 211+43.41

PI 210+02.07

PC 208+56.85

CITY OF MAYFIELD
DB 343 PG 661
DB 319 PG 475
12.798 Ac

Tract 1
12.378 Ac

PROPOSED C/A R/W & FENCE

EXIST. CA R/W & FENCE

I-181.50 CA R/W & FENCE

PRELIMINARY
SUBJECT TO CHANGE

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1108+00 TO 1120+00

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s | DATE PLOTTED: July 16, 2015 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R0110OPL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R12

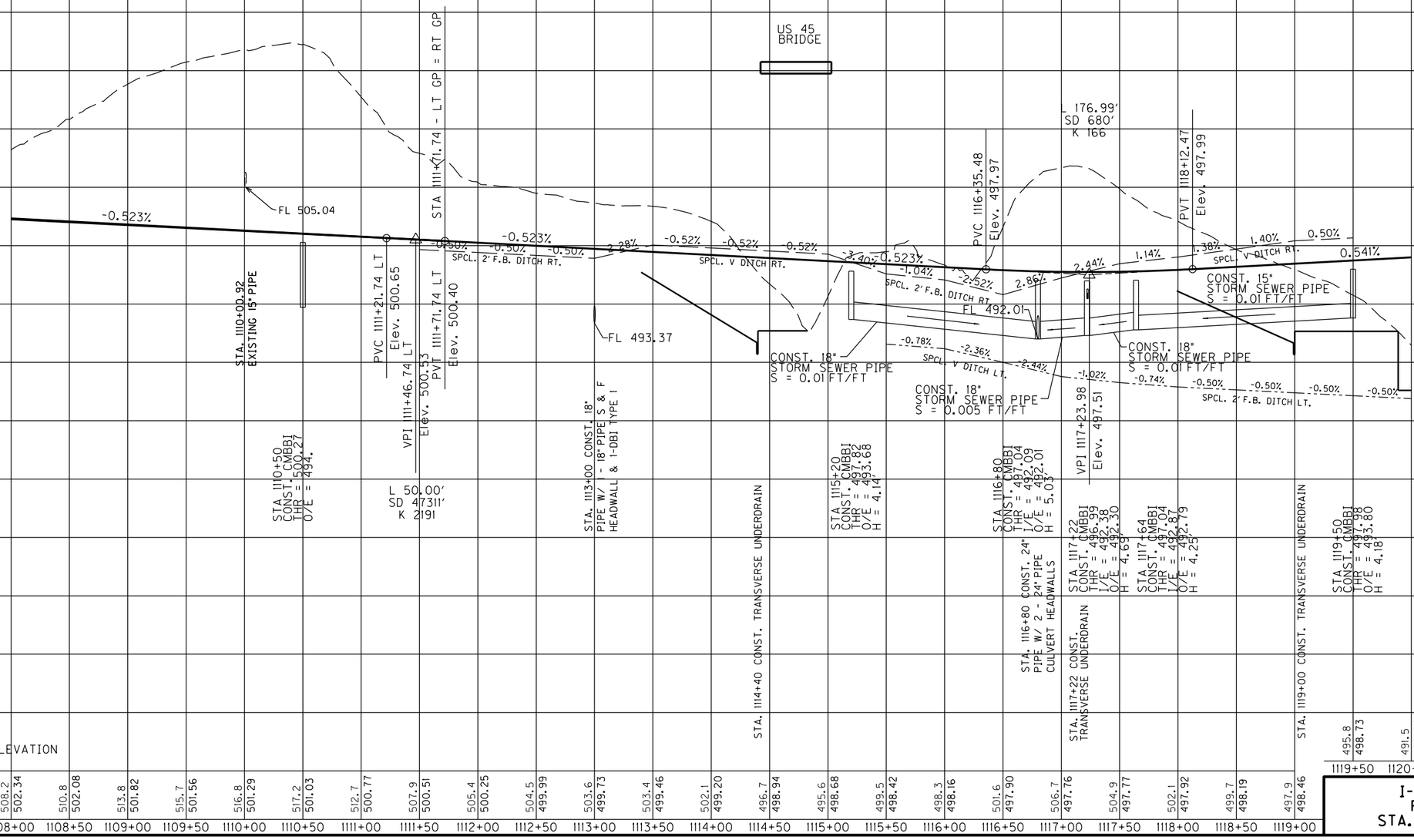
DATUM

LEFT GRADE POINT ELEVATION

508.2 / 502.26 | 510.8 / 502.01 | 513.8 / 501.76 | 515.7 / 501.51 | 516.8 / 501.26 | 517.2 / 501.01 | 512.7 / 500.76 | 507.9 / 500.51

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 1108+00 TO STA. 1120+00	3,461	59,486	0



RIGHT GRADE POINT ELEVATION

508.2 / 502.34 | 510.8 / 502.08 | 513.8 / 501.82 | 515.7 / 501.56 | 516.8 / 501.29 | 517.2 / 501.03 | 512.7 / 500.77 | 507.9 / 500.51 | 505.4 / 500.25 | 504.5 / 499.99 | 503.6 / 499.73 | 503.4 / 499.46 | 502.1 / 499.20 | 496.7 / 498.94 | 495.6 / 498.68 | 499.5 / 498.42 | 498.3 / 498.16 | 501.6 / 497.90 | 506.7 / 497.76 | 504.9 / 497.77 | 502.1 / 497.92 | 499.7 / 498.19 | 497.9 / 498.46

1108+00 | 1108+50 | 1109+00 | 1109+50 | 1110+00 | 1110+50 | 1111+00 | 1111+50 | 1112+00 | 1112+50 | 1113+00 | 1113+50 | 1114+00 | 1114+50 | 1115+00 | 1115+50 | 1116+00 | 1116+50 | 1117+00 | 1117+50 | 1118+00 | 1118+50 | 1119+00

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

I-69/US 45 INTERCHANGE
PROFILE SHEET - I-69
STA. 1108+00 TO STA. 1120+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R0120OPR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

STA. 1120+00 TO STA. 1135+00
CONST. 1325 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

STA. 302+13 TO STA. 305+98
CONST. 407 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R13

PRELIMINARY
SUBJECT TO CHANGE

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART

LT	RT	STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)
	X	1121+49 - 1128+00	678		1
	X	216+73 - 217+30	5	1	
	X	302+13 - 304+50	234		1
	X	400+18 - 400+33	15		1
	X	410+50 - 415+00	403	1	

EXISTING GUARDRAIL REMOVAL CHART

LT	RT	STA. TO STA.	LF
X		1117+36 - 1120+48	208
	X	1120+03 - 1126+23	706
	X	1120+53 - 1122+37	223
		1120+63 - 1124+74	255
X		1121+17 - 1134+63	872
X		1122+27 - 1123+73	98
X		1127+52 - 1129+86	290

CONSTRUCT STORM SEWER CHART

INLET #	DBI	TYPE	LT/RT/MED	STA.	TOP/GRATE THROAT	INVERT
	CMBBI	14BI	MED	1122+50	499.60	495.23
#30	CMBBI	14BI	MED	1126+00	501.49	494.97
#31	CMBBI	14BI	MED	1127+50	502.30	496.54
#32	CMBBI	14BI	MED	1129+00	503.11	498.11
#33	CMBBI	14BI	MED	1130+50	503.92	499.60
#34	CMBBI	14BI	MED	1132+00	504.74	500.54
#35	CMBBI	14BI	MED	1134+00	505.99	501.62
#36	CMBBI	14BI	MED			

EXISTING PAVEMENT REMOVAL CHART

LT	RT	STA. TO STA.	SY
	X	412+67 - 414+59	116
	X	1120+00 - 1122+36	981
	X	1120+00 - 1124+01	1782
X		1121+18 - 1135+00	4280
X		1123+41 - 1135+00	2450
X		1124+67 - 1129+13	716
	X	1126+66 - 1127+70	133
X		1128+95 - 1129+31	165
	X	1129+29 - 1133+33	1155

REMOVE EXISTING PAVEMENT

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1120+00 TO 1135+00

MATCHLINE SEE SHEET R13A

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R0I300PL.DGN
USER: ryan-s
DATE PLOTTED: July 16, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

REMOVE EXISTING PAVEMENT

EXISTING GUARDRAIL REMOVAL CHART			
LT	RT	STA. TO STA.	LF
	X	1122+37 - 1129+60	865

EXISTING PAVEMENT REMOVAL CHART			
LT	RT	STA. TO STA.	SY
	X	1122+36 - 1129+29	2952
	X	1124+01 - 1126+66	699

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R13A

MATCHLINE SEE SHEET R13

MATCHLINE SEE SHEET R11

REMOVE

REMOVE

18" BCCMP
IE. 492.68
OE. 492.26

Exist. G'Rail Barricade

Gvl.

Gvl.

1-Fr.

Gar

Lawn

T. Ped.

Lawn

Lawn

1-S-Fr.

F.H.

WM

Asphalt

OE.477.71

Conc. Dt.

Tank

Pilgrams Pride
1-S-Conc. Business

SAN

SANMH
TOP 488.14
INV. 480.79

INDUSTRIAL AUTHORITY OF MAYFIELD-GRAVES COUNTY
DB 379 PG 453
4.144 Ac

MAYFIELD-GRAVES COUNTY INDUSTRIAL DEVELOPMENT BOARD, INC
DB 223 PG 389
8.933 Ac
(Parent Deed Plotted in Green)

SANMH
TOP 488.79
INV. 475.54

INDUSTRIAL DR.

OLD PRYORSBURG RD.

PI 1127+72.83

PRELIMINARY
SUBJECT TO CHANGE

0' 50' 100' 200'

SCALE: 1"=50'

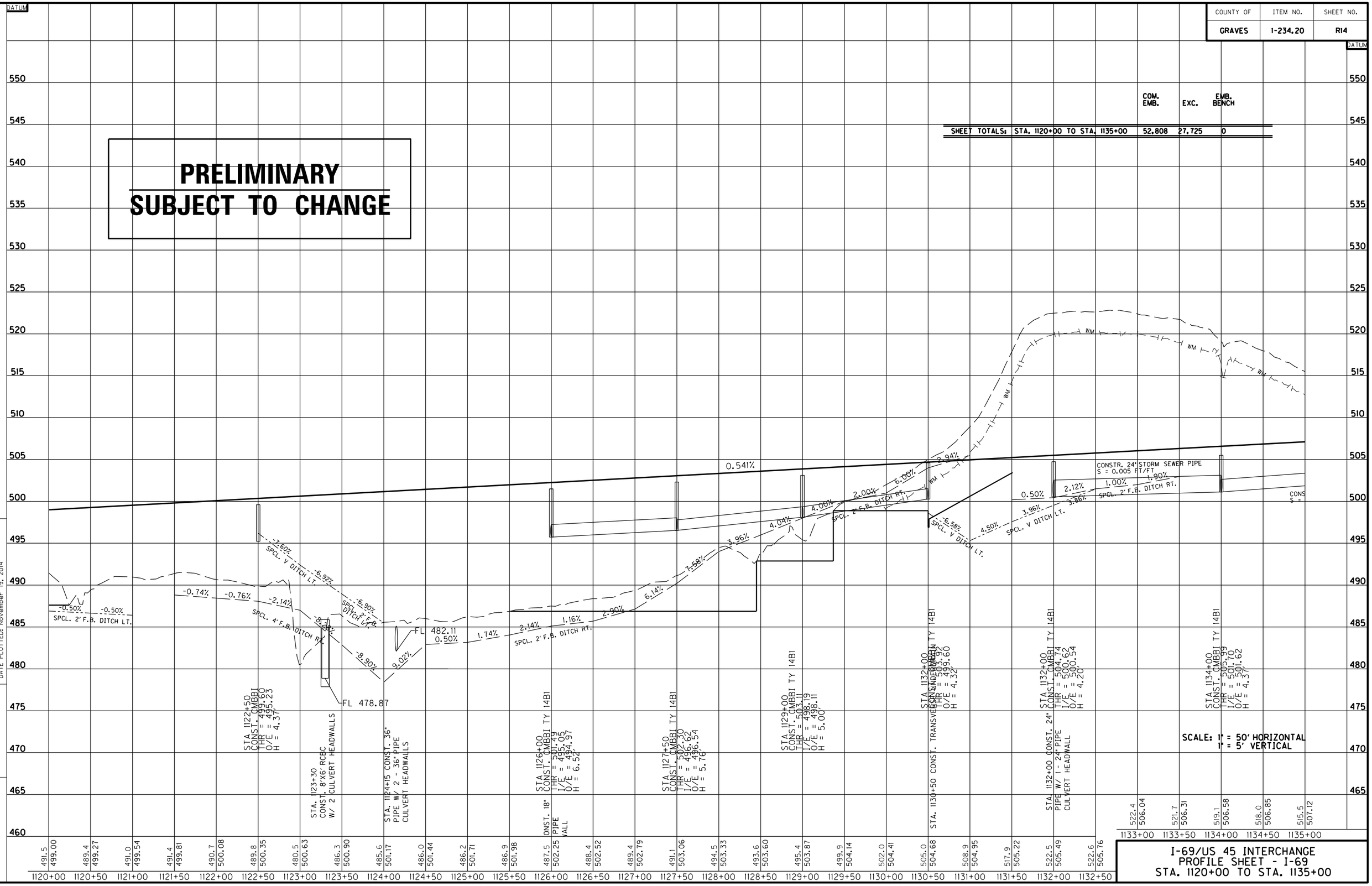
I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML

FILE NAME: C:\PW_WORKDIR\WILL\DMS0140\R013A0PL.DGN
USER: ryan-s
DATE PLOTTED: April 16, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R14

PRELIMINARY
SUBJECT TO CHANGE

		COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS:	STA. 1120+00 TO STA. 1135+00	52,808	27,725	0



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

I-69/US 45 INTERCHANGE
PROFILE SHEET - I-69
STA. 1120+00 TO STA. 1135+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R01400PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R15

STA. 1135+00 TO STA. 1150+00
CONST. 1350 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

RT. STA. 1136+32 TO STA. 1150+00
CONST. 1313 LF OF C/A FENCE

RT. STA. 1136+32 TO STA. 1150+00
REMOVE 376 LF FENCE

LT. STA. 1140+06 TO STA. 1150+00
CONST. 1049 LF OF C/A FENCE

LT. STA. 1140+06 TO STA. 1150+00
REMOVE 220 LF FENCE

CHIP LAWSON, JOHN CRAWFORD, BOYD SELLERS, TRUSTEES OF THE SUTTON LANE CHURCH OF CHRIST
DB 245 PG 162
0.331 Ac (PVA)
0.466 Ac (PVA)

CASEY PUCKETT
DB 330 PG 745
0.341 Ac
DB 330 PG 751
0.499 Ac

JOSEPH WOOLRIDGE AND MARY (WF)

WILLIAM A. WILSON AND ANN E. (WF)

WALDROP AND WALDROP, LLC

GEORGE KENT ISBELL

60' W. KY. RURAL ELECTRIC ESM'T

SAYRE DR.

I-69 MAINLINE
PI STA. 1142+02.23
Δ= 25°24'30" RT.
T=270.52'
L=532.15'
R=1200.00'
E=30.11'
e=8.0%
DESIGN SPEED=60 MPH

44.00' LT. I-69 ML
STA. 1135+17.46=
US 45 RAMP C STA. 400+00.00

44.00' LT. I-69 ML
STA. 1149+57.92=
KY 80 RAMP D STA. 10+59.08

S. SUTTON LN.

I-69 (SOUTHBOUND)

I-69 (NORTHBOUND)

PC 400+00.00

MATCHLINE STA. 1135+00 SEE SHEET R13

MATCHLINE STA. 1150+00 SEE SHEET R17

PC 1139+31.71

PT 1144+63.85

PROPOSED C/A R/W & FENCE

EXIST. CA R/W & FENCE

Existing Permanent Easement

TEMP. CONST. ESM'T FOR SLOPE CONST.

Ground Mt. Panel Sign

Conc. Dt.

OH Truss Sign

Conc. Mon.

I-S-Block-Business Mayfield Printing

I-S-Metal Business

I-S-Fr.

Sutton Lane Church of Christ I-S-Brick

Asphalt Parking

Ground Mt. Panel Sign

Raised Grass Median w / Mountable Curb

EXIST. CA & FENCE

EXIST R/W

UG MKR.

Gvl.

Lawn

Grass

Asphalt

Axle

Sign

18" STORM SEWER PIPE

30" STORM SEWER PIPE

18" BCCMP

TY 1

TY 2A

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART					
LT	RT	STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)
	X	1136+00 - 1138+15	163	1	1
X		1135+17 - 1137+00	130	1	
X		1140+69 - 1148+50	748	1	1
	X	400+00 - 400+18	18		

EXISTING PAVEMENT REMOVAL CHART			
LT	RT	STA. TO STA.	SY
X		1135+00 - 1139+62	1469
X		1135+00 - 1139+93	1996

REMOVE EXISTING PAVEMENT

CONSTRUCT STORM SEWER CHART						
INLET #	DBI CMBBI	TYPE	LT/RT/ MED	STA.	TOP/GRATE THROAT	INVERT
#37	CMBBI	14BI	MED	1136+50	507.53	502.95
#38	CMBBI	14BI	MED	1137+00	507.75	503.28
#39	CMBBI	14BI	MED	1138+50	508.44	504.11
#40	CMBBI	14BI	MED	1141+00	509.60	505.44
#41	CMBBI	14BI	MED	1142+35	510.33	501.27
#42	DBI	5B	LT	1142+35	506.66	501.69
#43	DBI	5B	LT	1143+44	508.50	504.12
#44	CMBBI	14BI	MED	1144+00	511.18	506.30

JAMES S. RILEY & ALICE FRANCES (WF)
DB 217 PG 541
28.616 Ac
(No info in deed to plot)

STA. 1149+54 CONSTRUCT
142 LF CLEAN (PIPE 24")
142 LF CIPP LINER 24 IN

PRELIMINARY
SUBJECT TO CHANGE

SCALE: 1"=50'

0' 50' 100' 200'

I-69/US 45 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1135+00 TO 1150+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01401\R01500PL.DGN
USER: ryan-s
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R16

PRELIMINARY
SUBJECT TO CHANGE

		COM. EMB.	EXC.	EMB. BENCH	DITCH LEFT
SHEET TOTALS:	STA. 1135+00 TO STA. 1150+00	804	37,614	0	159

OVERHEAD POWER
ELEV. = 547.69

L 100.00'
SD 1390'
K 367

PVC 1143+00.00
Elev. 511.45

PVT 1144+00.00
Elev. 512.12

VPI 1143+50.00
Elev. 511.72

0.814%

0.541%

-3.74%

-3.00%

-0.50%

5.37%

2.27%

2.30%

2.60%

0.84%

0.52%

0.50%

2.52%

-0.52%

0.54%

3.70%

5.98%

-2.22%

-1.42%

-17.09%

12.20%

11.50%

SPCL. 2' F.B. DITCH LT.

SPCL. 2' F.B. DITCH RT.

CONSTR. 18" STORM SEWER PIPE
S = 0.005 FT/FT

CONSTR. 15" STORM SEWER PIPE
S = 0.005 FT/FT

CONSTR. 18" STORM SEWER PIPE
S = 0.03 FT/FT

TR. 18" STORM SEWER PIPE
0.005 FT/FT

WATER XING

FL 506.58

FL 501.29

FL 499.80

FL 508.39

STA. 1140+63.96
EXISTING 18" PIPE

STA. 1142+90.77
EXISTING 30" PIPE

STA. 1149+54.28
EXISTING 24" PIPE

STA 1136+50
CONST. CMBBI TY 14BI
THR = 507.53
I/E = 503.03
O/E = 502.95
H = 4.58

STA 1137+00
CONST. CMBBI TY 14BI
THR = 507.45
I/E = 503.36
O/E = 503.28
H = 4.47

STA 1138+50
CONST. CMBBI TY 14BI
THR = 508.74
I/E = 504.16
O/E = 504.11
H = 4.33

STA 1141+00
CONST. CMBBI TY 14BI
THR = 509.60
O/E = 505.44
H = 4.16

STA 1142+35
CONST. CMBBI
THR = 510.33
I/E = 501.35
O/E = 501.27
H = 9.08

1142+35 CONST. 36"
W/ 1 - 36" PIPE
ERT HEADWALL

STA 1144+00
CONST. CMBBI
THR = 511.18
O/E = 506.30
H = 4.88

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

| | | |

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R17

STA. 1150+00 TO STA. 1165+00
CONST. 1500 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

RT. STA. 1150+00 TO STA. 706+70
CONST. 823 LF OF C/A FENCE

RT. STA. 1150+00 TO STA. 706+70
REMOVE 365 LF FENCE

RT. STA. 1000+68 TO STA. 1011+20
CONST. 1040 LF OF C/A FENCE

RT. STA. 1000+68 TO STA. 1011+20
REMOVE 759 LF FENCE

KY 80 RAMP D
PI STA. 1009+27.95
Δ= 15°03'04" RT.
T=233.88'
L=464.96'
R=1770.00'
E=15.38'
e=4.0%
DESIGN SPEED=40 MPH

PC 1006+94.12

PI 1009+27.95

PC 1005+00

PI 1158+09.81

PC 700+00.00

PI 703+74.06

PC 1011+59.06

PC 1000+00.00

PI 912+96.34

PI 48+26.54

PC 51+22.58

PI 52+66.73

PI 54+43.67

PC 910+00

POT 0+00.00 = KY 80 ML STA. 45+58.88

POT 1000+00.00 = KY 80 ML STA. 47+09.97

POT 912+96.34 = KY 80 ML STA. 47+24.01

I-69 ML STA. 1162+12.23= KY 80 ML STA. 50+15.62

44.00' RT. I-69 ML STA. 1151+50.44= KY 80 RAMP A STA. 700+00.00

POT 800+00.00 = KY 80 ML STA. 52+95.42

POT 712+02.69 = KY 80 ML STA. 53+05.62

KY 80 RAMP A
PI STA. 703+74.06
Δ= 15°00'23" RT.
T=374.06'
L=743.83'
R=2840.00'
E=24.53'
e=4.6%
DESIGN SPEED=55 MPH

KY 80 MAINLINE
PI STA. 52+66.73
Δ= 2°27'41" RT.
T=144.14'
L=288.24'
R=6710.00'
E=1.55'
e=NC
DESIGN SPEED=45 MPH

CHARLES M. COURTNEY AND MARY (WF)

JOSEPH WOOLRIDGE AND MARY (WF)

PAUL B. WOODARD AND BARBARA (WF)

BRYAN C. GREEN AND ELIZABETH N. (WF)

LAURA KENDALL

JOEL T. NESLER & SALLY (WF)
DB 485 PG 269
7.076 Ac
(7.231 Ac PVA)
4

BOBBY PURCELL AND TERESA (WF)
JESSE OGG AND SONYA (WF)
DB 364 PG 467
5.34 Ac (PVA)
5

WALDROP AND WALDROP, LLC.

GEORGE W. PETTY, JR. AND GEORGE C. PETTY
8

S. SUTTON LN.

N. SUTTON LANE

KY 80 RAMP B

KY 80 RAMP C

KY 80 RAMP D

I-69 (SOUTHBOUND)

I-69 (NORTHBOUND)

MATCHLINE STA. 1150+00 SEE SHEET R15

MATCHLINE STA. 1165+00 SEE SHEET R19

Existing Permanent Easement

Raised Grass Median w / Mountable Curb

Exist. 4-Span Concr. Bridge

Exist. Concr. Spill-Through Slope

OH Bridge Mt. Sign

Exist. CA & FENCE

EXIST. CA R/W & FENCE

PROPOSED C/A & FENCE

BEGIN EXIST CONTROL ACCESS

END EXIST CONTROL ACCESS

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART								
LT	RT	STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)	TERM SECT NO. 1 (EA)	BRIDGE END CONN. TY A (EA)	BRIDGE END CONN. TY A1 (EA)
	X	1150+00 - 1151+50	98	1				
	X	700+00 - 701+50	150		1			
	X	708+33 - 711+92	312	1				
X		710+07 - 710+93	100	1				
X		800+18 - 800+75	58		1			
	X	800+33 - 801+83	195					
	X	908+80 - 912+96	427					
X		911+00 - 911+92	101	1				
X		1000+16 - 1001+32	127		1			
	X	1+26 - 2+35	181		1			
	X	47+58 - 48+94	146				1	
X		48+63 - 49+14	61					1
	X	51+02 - 51+57	65					1
X		51+23 - 52+62	150				1	
	X	53+17 - 54+46	133			1		
X		53+78 - 54+76	119			1		

PRELIMINARY
SUBJECT TO CHANGE

I-69/KY 80 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1150+00 TO 1165+00

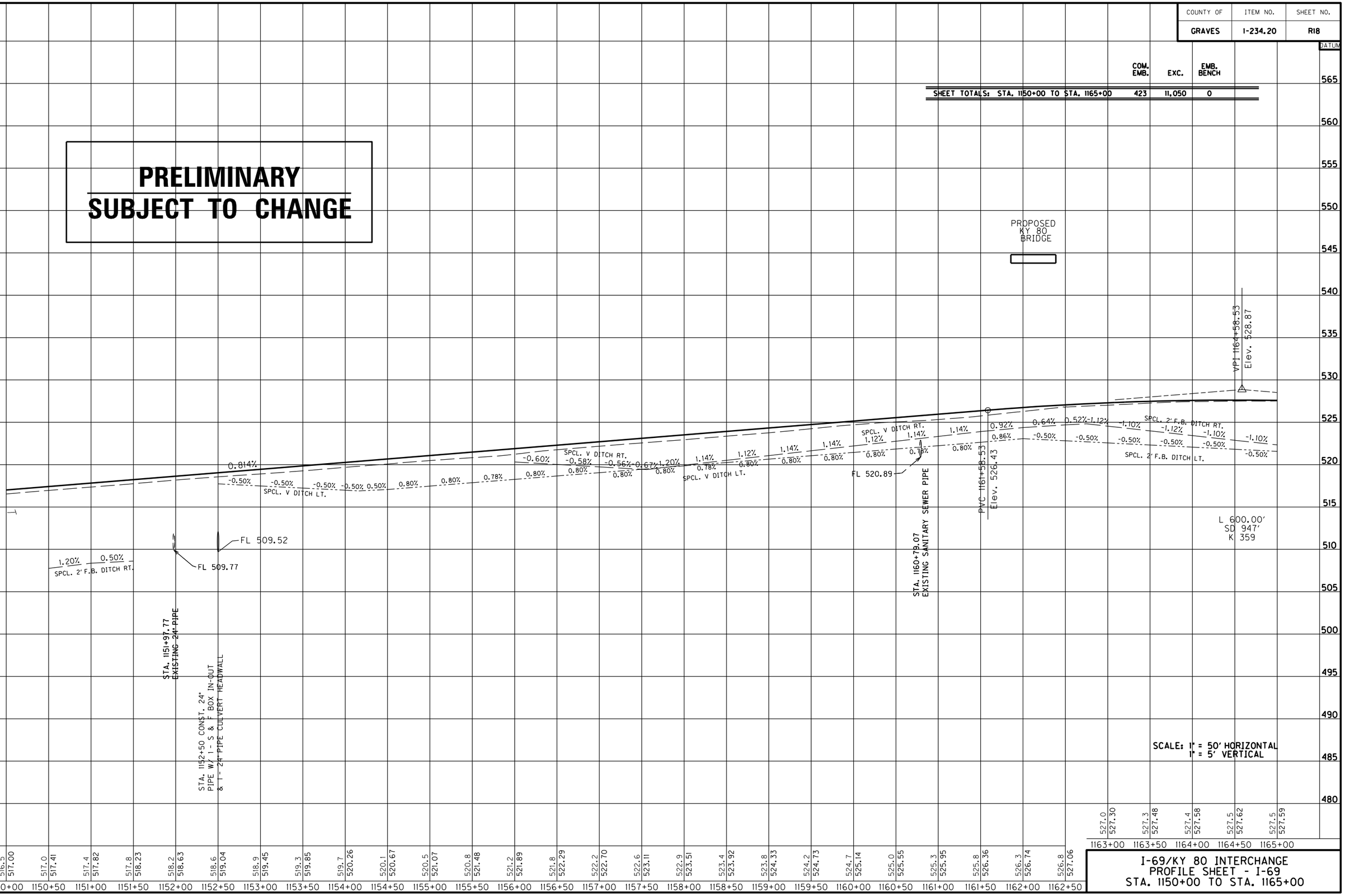
SCALE: 1"=50'

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R0170OPL.DGN
USER: ryan-s
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R18

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 1150+00 TO STA. 1165+00	423	11,050	0



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

I-69/KY 80 INTERCHANGE
PROFILE SHEET - I-69
STA. 1150+00 TO STA. 1165+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R0180OPR.DGN
USER: ryan-s
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R19

STA. 1165+00 TO STA. 1180+00
CONST. 1500 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL

LT. STA. 1169+18 TO STA. 1180+00
CONST. 1085 LF OF C/A FENCE

LT. STA. 1169+18 TO STA. 1180+00
REMOVE 951 LF OF FENCE

RT. STA. 804+15 TO STA. 804+70
CONST. 56 LF OF C/A FENCE

RT. STA. 804+15 TO STA. 804+70
REMOVE 56 LF OF FENCE

RT. STA. 807+62 TO STA. 814+21
CONST. 657 LF OF C/A FENCE

RT. STA. 807+62 TO STA. 814+21
REMOVE 138 LF OF FENCE

KY 80 RAMP C
PI STA. 905+83.60
Δ= 10°36'41" RT.
T=122.58'
L=244.47'
R=1320.00'
E=5.68'
e=5.8%
DESIGN SPEED=45 MPH

KY 80 RAMP B
PI STA. 807+97.30
Δ= 14°25'26" RT.
T=168.30'
L=334.82'
R=1330.00'
E=10.61'
e=6.6%
DESIGN SPEED=50 MPH

32.00' LT. I-69 ML STA. 1173+65.11 =
KY 80 RAMP C STA. 900+00.00

MATCHLINE STA. 1165+00 SEE SHEET R17

MATCHLINE STA. 1180+00 SEE SHEET R21

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART					
LT	RT	STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)
X		1173+66 - 1179+15	500	1	
	X	801+83 - 804+50	267		1
	X	900+00 - 904+10	410		1
	X	908+30 - 908+80	0	1	

PRELIMINARY
SUBJECT TO CHANGE

SCALE: 1"=50'

0' 50' 100' 200'

I-69/KY 80 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1165+00 TO 1180+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R01900PL.DGN
USER: will
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R20

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 1165+00 TO STA. 1180+00	505	7,143	1,565

PRELIMINARY
SUBJECT TO CHANGE

DATUM: 565, 560, 555, 550, 545, 540, 535, 530, 525, 520, 515, 510, 505, 500, 495, 490, 485, 480, 475

-1.10% -1.12% 0.50% 3.24% 2.06% 1.08% -0.855% 0.729% 0.98% 1.38%
-0.50% -0.50% -0.70% -1.10% 0.92% -1.25% -0.82% -0.82% -0.80% 3.50% 2.44% 1.22% 1.06% 0.76% 0.54%

SPCL. 2' F.B. DITCH LT.
SPCL. 2' F.B. DITCH RT.
SPCL. V DITCH RT.
SPCL. V DITCH LT.
SPCL. V DITCH LT.

FL 520.67
FL 520.29
FL 518.27
FL 503.05
FL 503.05

L 600.00'
SD 947'
K 359

L 400.00'
SD 986'
K 252

PVC 1172+39.59
Elev. 522.19

PVT 1176+39.59
Elev. 521.94

PVT 1167+58.53
Elev. 526.31

VPI 1174+39.59
Elev. 520.48

PVC 1179+50.00
Elev. 524.20

OVERHEAD POWER
ELEV. = 539.81

GAS XING

TEL XING

STA. 1166+48 CONST. 24" PIPE W/ 2 S & F BOX IN-OUT

STA. 1167+54.21
EXISTING 18"PIPE

STA. 1174+21.11
EXISTING 48"PIPE

STA. 1174+56 CONST.
TRANSVERSE UNDERDRAIN

STA. 1179+53.73
EXISTING 18"PIPE

| | | |

CONSTRUCT STORM SEWER CHART						
INLET #	DBI / CMBBI	TYPE	LT/RT/ MED	STA.	TOP/GRATE / THROAT	INVERT
#45	DBI	5B	LT	1182+54	521.98	517.86

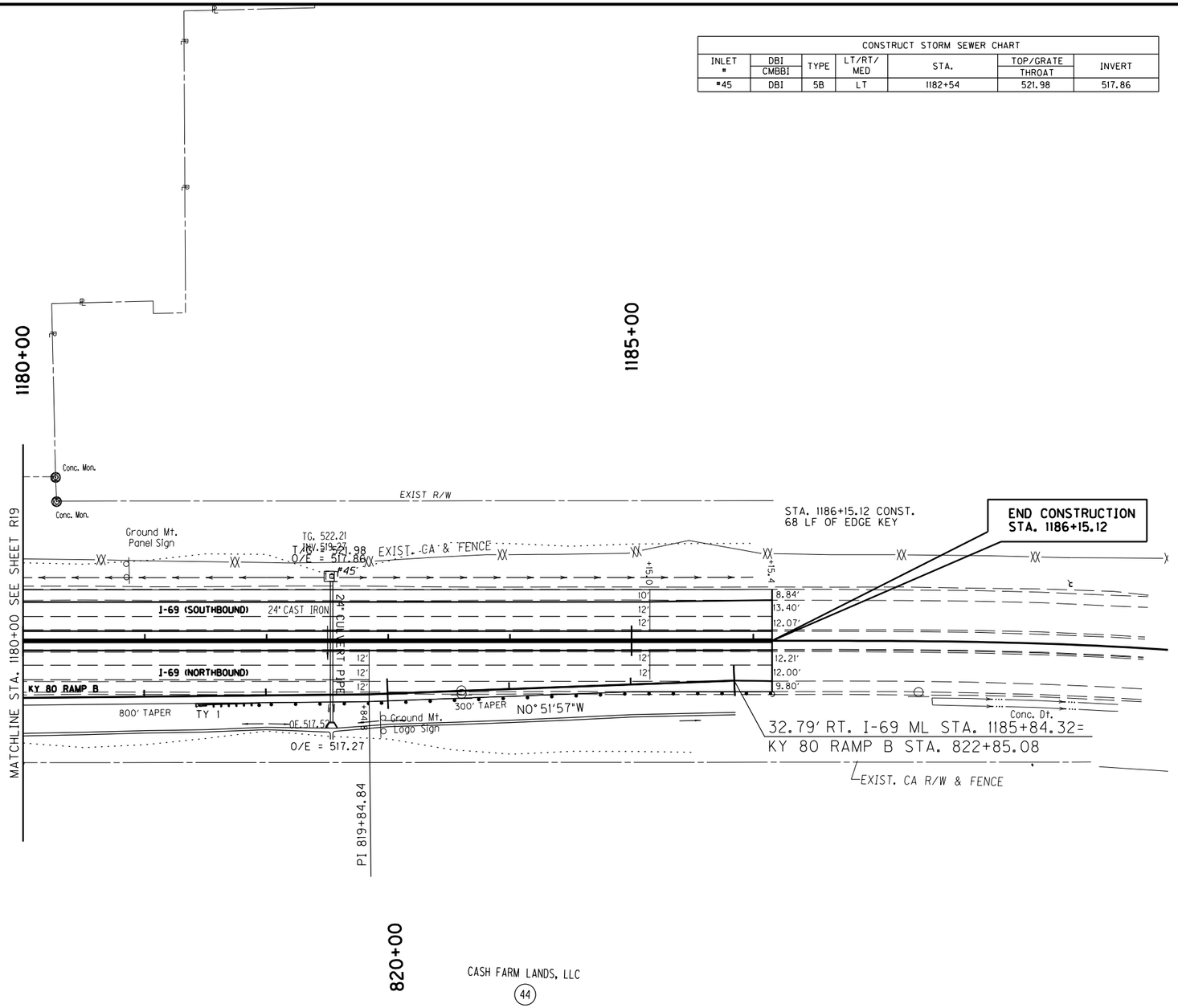
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R21

STA. 1180+00 TO STA. 1186+15
CONST. 615 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL, CONNECT TO ADJOINING PROJECT BARRIER WALL.

LT. STA. 1180+00 TO STA. 1186+15
CONST. 615 LF OF C/A FENCE

LT. STA. 1180+00 TO STA. 1186+15
REMOVE 207 LF OF FENCE

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART					
LT	RT	STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)
	X	818+42 - 822+85	391	1	
	X	1185+84 - 1186+15	31		1



PRELIMINARY
SUBJECT TO CHANGE

0' 50' 100' 200'

SCALE: 1"=50'

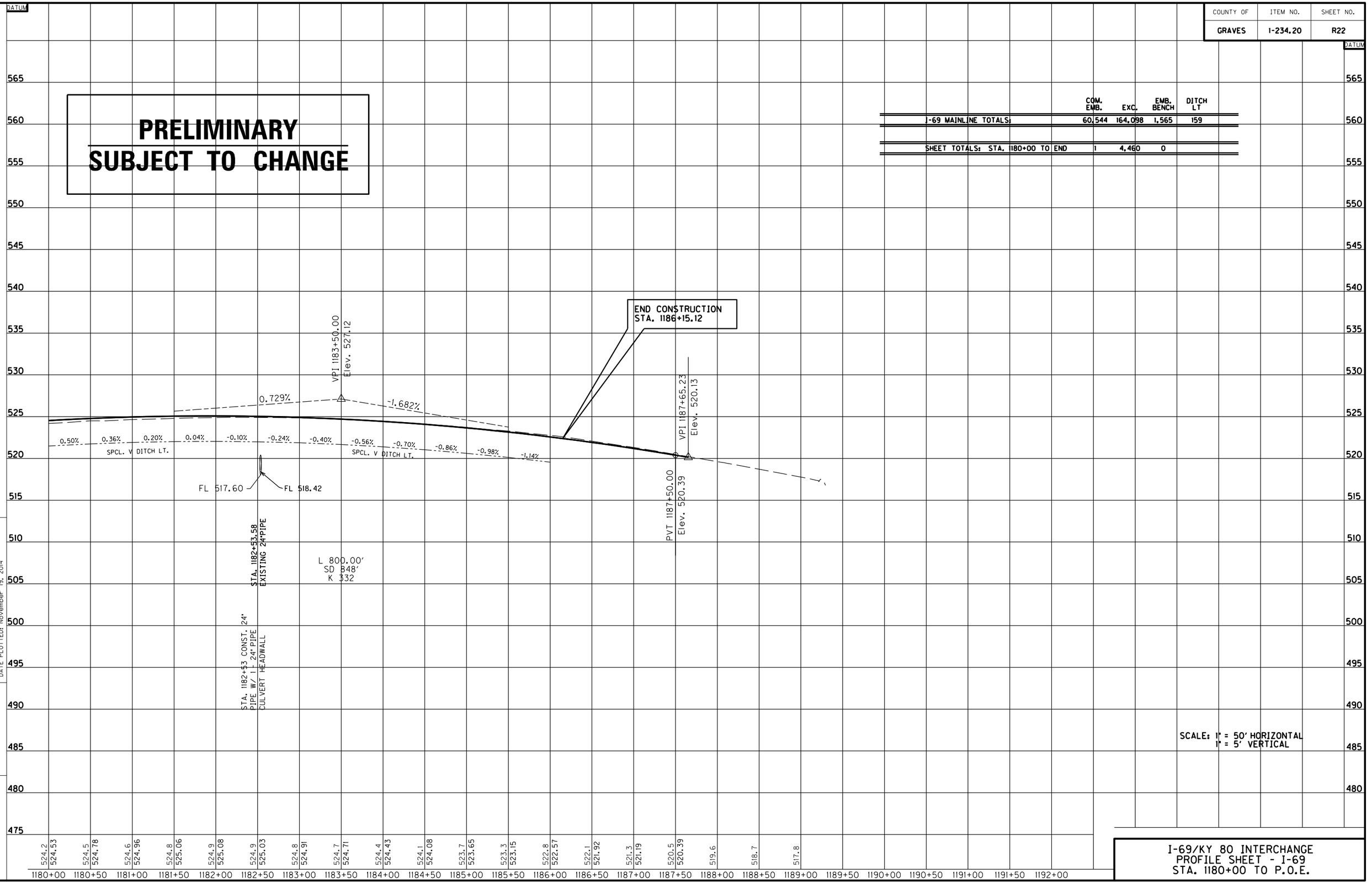
I-69/KY 80 INTERCHANGE
PLAN SHEET I-69 ML
STA. 1180+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\1\R02100PL.DGN
USER: ryan-s
DATE PLOTTED: May 8, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R22

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH	DITCH LT
I-69 MAINLINE TOTALS:	60,544	164,098	1,565	159
SHEET TOTALS: STA. 1180+00 TO END	1	4,460	0	



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

I-69/KY 80 INTERCHANGE
PROFILE SHEET - I-69
STA. 1180+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R02200PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R23

STA. 500+00 TO STA. 510+00
CONST. 925 LF 42" SINGLE SLOPE MEDIAN BARRIER WALL AND CRASH CUSHION TY VI CLASS C TL3.

RT. STA. 200+00 TO STA. 206+42
CONST. 656 LF OF C/A FENCE

RT. STA. 200+00 TO STA. 206+42
REMOVE 453 LF FENCE

EXISTING PAVEMENT REMOVAL CHART			
LT	RT	STA. TO STA.	SY
	X	500+50 - 504+45	867

EXISTING GUARDRAIL REMOVAL CHART			
LT	RT	STA. TO STA.	LF
	X	500+48 - 502+25	286

STEEL "W" BEAM GUARDRAIL CONSTRUCTION CHART					
LT	RT	STATION TO STATION	SINGLE FACE (FT)	END TREATMENT TY 1 (EA)	END TREATMENT TY 2A (EA)
	X	201+50 - 203+70	170	1	1
	X	600+60 - 603+10	200	1	1

CONSTRUCT STORM SEWER CHART						
INLET #	DBI CMBBI	TYPE	LT/RT/ MED	STA.	TOP/GRADE THROAT	INVERT
#46	CMBBI	14BI	MED	508+90	519.10	515.23
#47	CMBBI	14BI	MED	509+22	519.06	514.84
#48	CMBBI	14BI	MED	509+54	519.11	515.23

PRELIMINARY
SUBJECT TO CHANGE

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
PLAN SHEET US 45 BYPASS
P.O.B. TO STA. 510+00

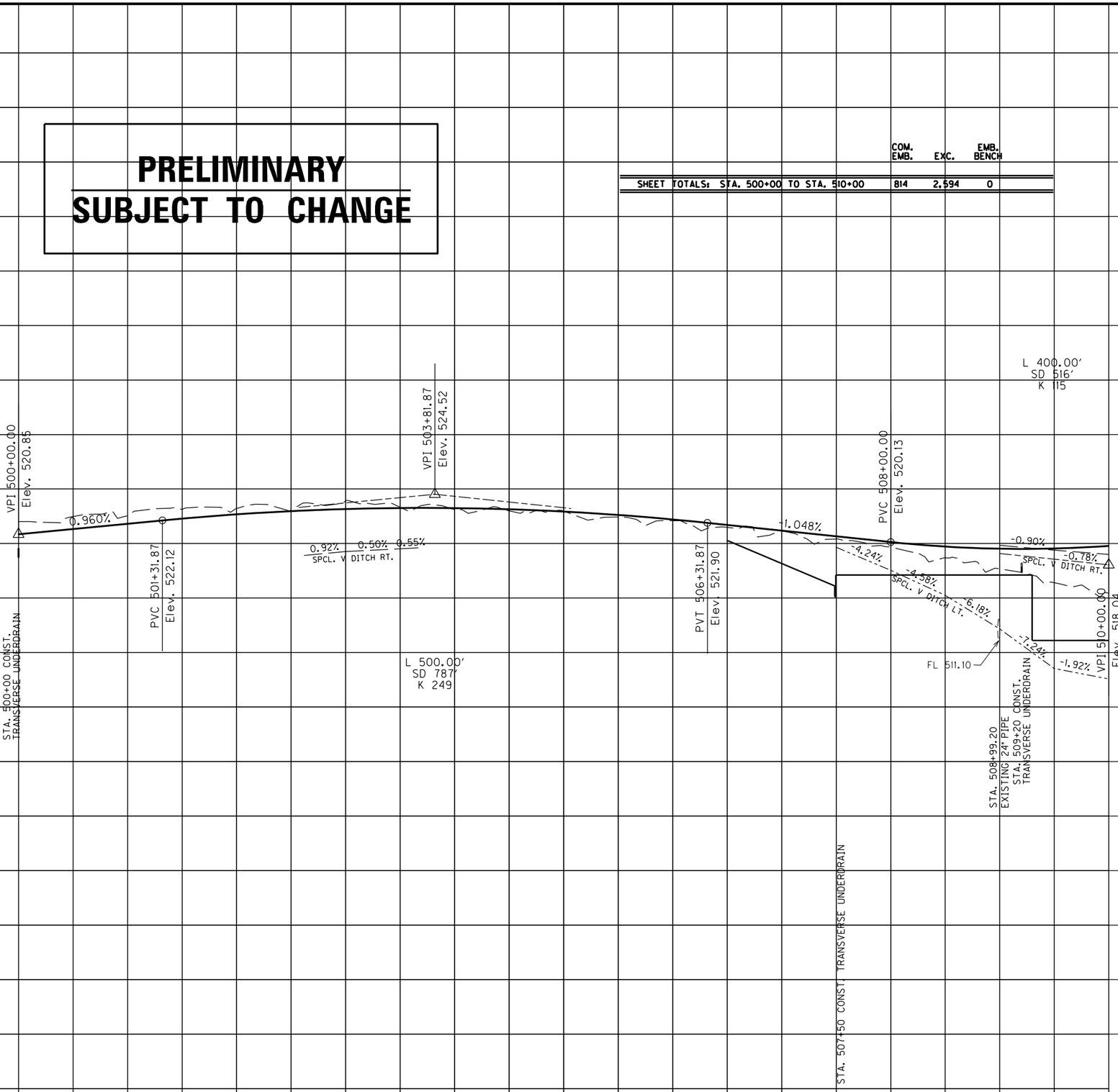
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R02300PL.DGN
USER: ryan-s
DATE PLOTTED: May 31, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R24

DATUM

PRELIMINARY
SUBJECT TO CHANGE

SHEET TOTALS: STA. 500+00 TO STA. 510+00	COM. EMB.	EXC.	EMB. BENCH
	814	2,594	0



	500+00	500+50	501+00	501+50	502+00	502+50	503+00	503+50	504+00	504+50	505+00	505+50	506+00	506+50	507+00	507+50	508+00	508+50	509+00	509+50	510+00
	522.0	522.5	522.6	523.1	523.2	523.1	523.9	523.3	523.1	523.0	523.0	522.4	522.1	521.5	521.2	520.4	519.7	518.7	517.7	516.4	515.4
	520.85	521.33	521.81	522.28	522.68	522.97	523.16	523.25	523.25	523.14	522.93	522.62	522.21	521.71	521.18	520.66	520.13	519.72	519.52	519.54	519.78

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

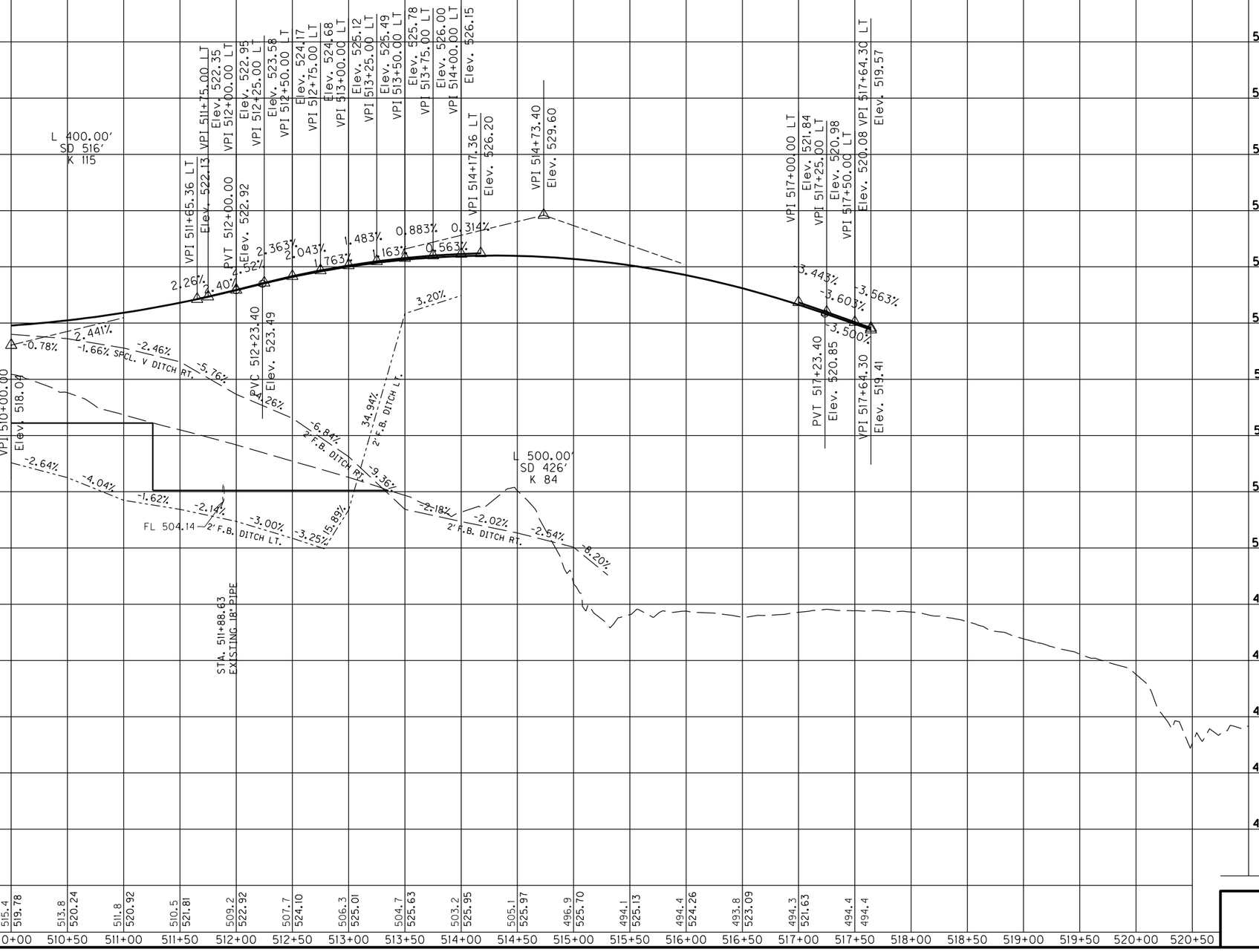
I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 BYPASS
STA. 500+00 TO STA. 510+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R02400PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R24A

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
US 45 TOTALS:	31,762	2,761	1,199
SHEET TOTALS: STA. 510+00 TO END	30,948	167	1,199



| | | |

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R25

KY 80 STA. 44+58 TO STA. 49+03
SCARIFY AND RESHAPE 1771 SQ YD
EX. PAVEMENT

CONSTRUCT ENTRANCE							
STATION	SIDE	TYPE	WIDTH (LF)	ENT. PAVING TYPE	ENT. PAVING (SQYD)	ENT. PIPE L.F.	ENT. PIPE SIZE
43+52.5	LT	COMMERCIAL	40	ASPH	•314		
54+93	LT	COMMERCIAL	37	ASPH	•505		
42+76.6	RT	RESIDENTIAL	18	ASPH	•81		
44+00	RT	RESIDENTIAL	24	ASPH	•132		
54+59.6	RT	COMMERCIAL	40	ASPH	•447	113	6.95"

•NOTE: QUANTITY INCLUDED ON PAVING SUMMARY

STA. 4+43.62 CONST.
20 LF OF EDGE KEY

POF 4+43.62

P1 4+91.67

910+00

N. SUTTON LN.

1165+00

KY 80 RAMP C

P1 1167+51.24

P1 907+05.49

TIMOTHY E. PROVO AND KAREN J. (WF)

4-H PROPERTIES, LLC

JULIE W. MEYERS AND PHILLIP (HUSB)
32
1-S-Block & Brick (Vacant)

Inlet T/G 521.65 INV. 519.50

Inlet T/G 521.45 INV. 519.38

Inlet T/G 520.64 INV. 518.60

SANMH TOP 521.89 INV. 518.61

18" CMP

Asphalt Parking

LP (Do Not Disturb)

EXIST. R/W

EXIST. CA & FENCE

TY I

TY 2A

2A CULVERT PIPE

18" RCCMP IE: 521.24

18" RCCMP IE: 521.12

I/E = 521.00

O/E = 520.32

IE. 521.24 18" RCCMP

Asphalt

360' TAPER

250' TAPER

KY 80 RAMP B

N 13°43'25"W

PRINCETON DR.

55+00

EXIST. CA R/W & FENCE

N 13°44'49"W

1-S-Brick (Vacant)

T.ESM'T FOR ENT.CONST.

PC 54+10.83

PT 54+10.83

BEGIN EXIST CONTROL ACCESS

Conc. Pad

TRIFECTA CAPITAL, LLC

Tract 1

Tract 2

BEGIN CONSTRUCTION
STA. 42+42.94

Under Construction

INGRESS/EGRESS

Asphalt

UTILITY ESM'T

ROBERT L. SULLIVAN AND BARBARA (WF)

P1 43+46.12

ROT 42+00.00

45+00

50+00

S16°09'32"W

N 13°44'49"W

P1 48+26.54

P1 52+66.73

POT 800+00.00 = KY 80 ML STA. 52+95.42

KY 80 ML

N67° 40'51"E

N67° 45'35"E

N67° 02'10"E

N69° 29'50"E

BEC TY A

BEC TY A-1

EXIST. CA & FENCE

Rotaid Grass Median w / Mountable Curb

Exist. Concrete Bridge

Exist. Concrete Split Through Slope Bridge W/ Sidewalk

Exist. Concrete Split Through Slope Bridge W/ Sidewalk

Grass

Asphalt

Gvl.

Pvd. Sh.

Lawn

Conc. Mon.

#TP435

#4888

#4889

#4890

#4891

#TP449

#TP20

#TP21

#TP410

#TP434

#TP435

#TP436

#TP437

#TP438

#TP439

#TP440

#TP441

#TP442

#TP443

#TP444

#TP445

#TP446

#TP447

#TP448

#TP450

#TP451

#TP452

#TP453

#TP454

#TP455

#TP456

#TP457

#TP458

#TP459

#TP460

#TP461

#TP462

#TP463

#TP464

#TP465

#TP466

#TP467

#TP468

#TP469

#TP470

#TP471

#TP472

#TP473

#TP474

#TP475

#TP476

#TP477

#TP478

#TP479

#TP480

#TP481

#TP482

#TP483

#TP484

#TP485

#TP486

#TP487

#TP488

#TP489

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R26

DATUM

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: BEGIN PROJECT TO STA. 55+00	5,457	339	2,587

VPI 50+09.58
Elev. 559.77

OVERHEAD POWER
EL. 551.23 TEMP. 13°

L 250.00'
SD 710'
K 75

VPI 42+42.94
Elev. 527.79

PVC 42+75.00
Elev. 528.77

3.032%

GAS
XING

GAS WATER
XING XING

VPI 44+00.00
Elev. 532.56

PVT 45+25.00
Elev. 538.14

4.46A%

FOC
XING

PVC 45+37.08
Elev. 538.67

L 945.00'
SD 478'
K 106

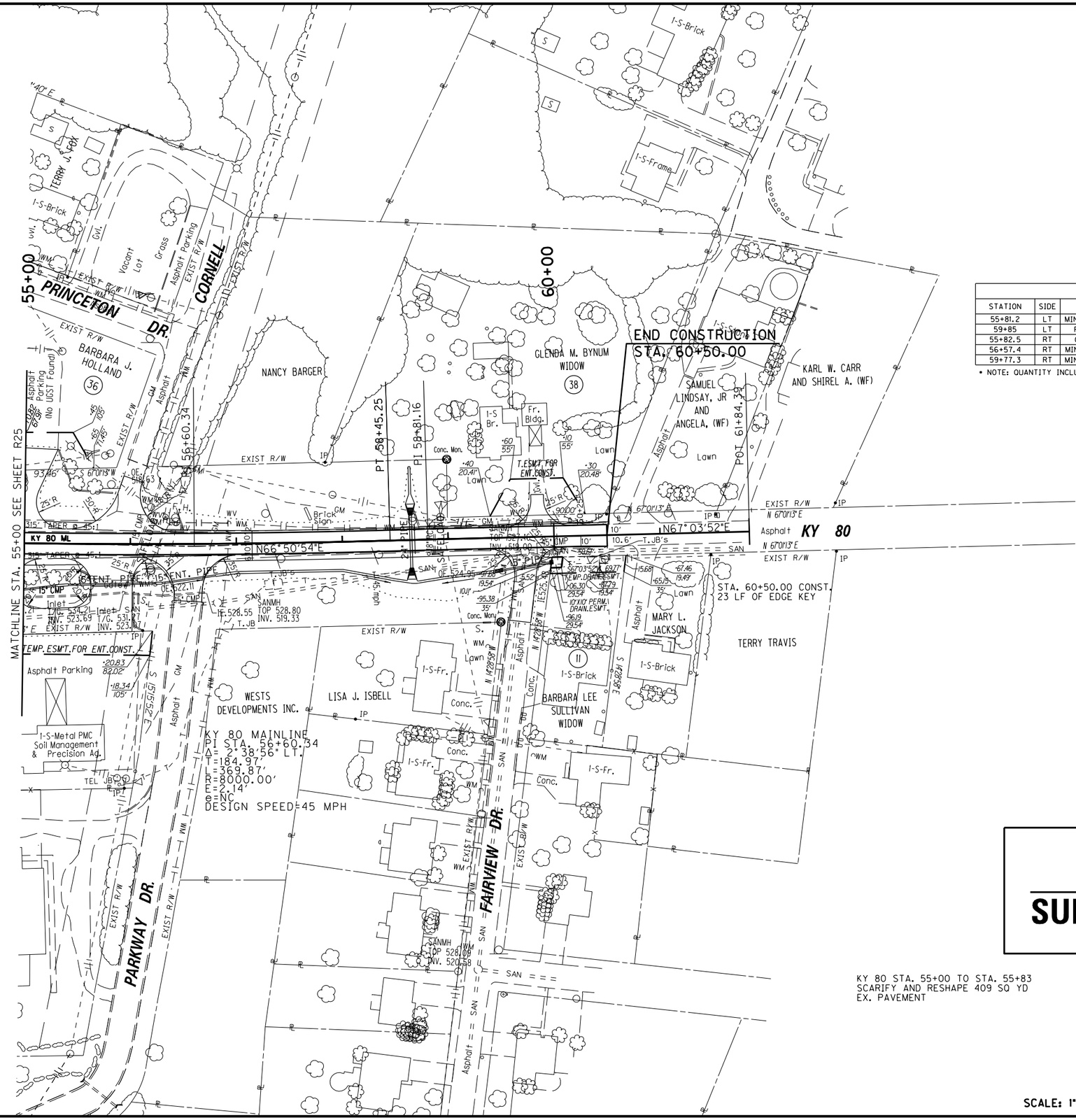
PVT 54+82.08
Elev. 538.72

15" ENT. PIP

-0.5%

= = SAN = = = = = = = = 8" PVC = = SAN = = = = = = = = = = SAN = = = = = 8" PVC = = SAN = = = = = = = = = = = = = = = SAN = SAN = = = = = = = = = = = = = = = = = = =

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R27



CONSTRUCT ENTRANCE

STATION	SIDE	TYPE	WIDTH (LF)	ENT. PAVING TYPE	ENT. PAVING (SQYD)	ENT. PIPE L.F.	ENT. PIPE SIZE
55+81.2	LT	MINOR APPROACH	40	ASPH	•35		
59+85	LT	RESIDENTIAL	37	ASPH	•88		
55+82.5	RT	COMMERCIAL	18	ASPH	•104	82	15"
56+57.4	RT	MINOR APPROACH	24	ASPH	•35	52	15"
59+77.3	RT	MINOR APPROACH	40	ASPH	•54		

• NOTE: QUANTITY INCLUDED ON PAVING SUMMARY

PRELIMINARY
SUBJECT TO CHANGE

KY 80 STA. 55+00 TO STA. 55+83
SCARIFY AND RESHAPE 409 SQ YD
EX. PAVEMENT

0' 50' 100' 200'

SCALE: 1"=50'

KY 80
PLAN SHEET KY 80 ML
STA. 55+00 TO P.O.E.

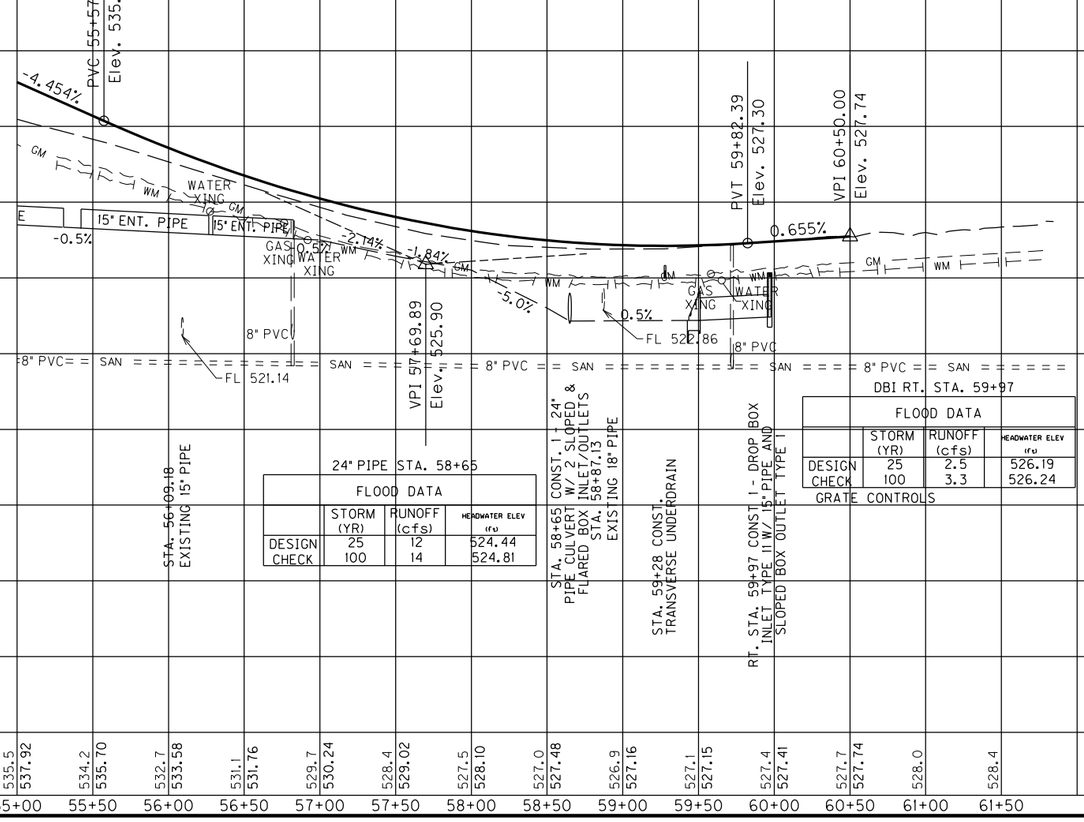
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R02700PL.DGN
USER: will
DATE PLOTTED: July 16, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R28

DATUM

	COM. EMB.	EXC.	EMB. BENCH
KY 80 MAINLINE TOTALS:	5,593	1,443	2,587
SHEET TOTALS: STA. 55+00 TO END PROJECT	136	1,104	0

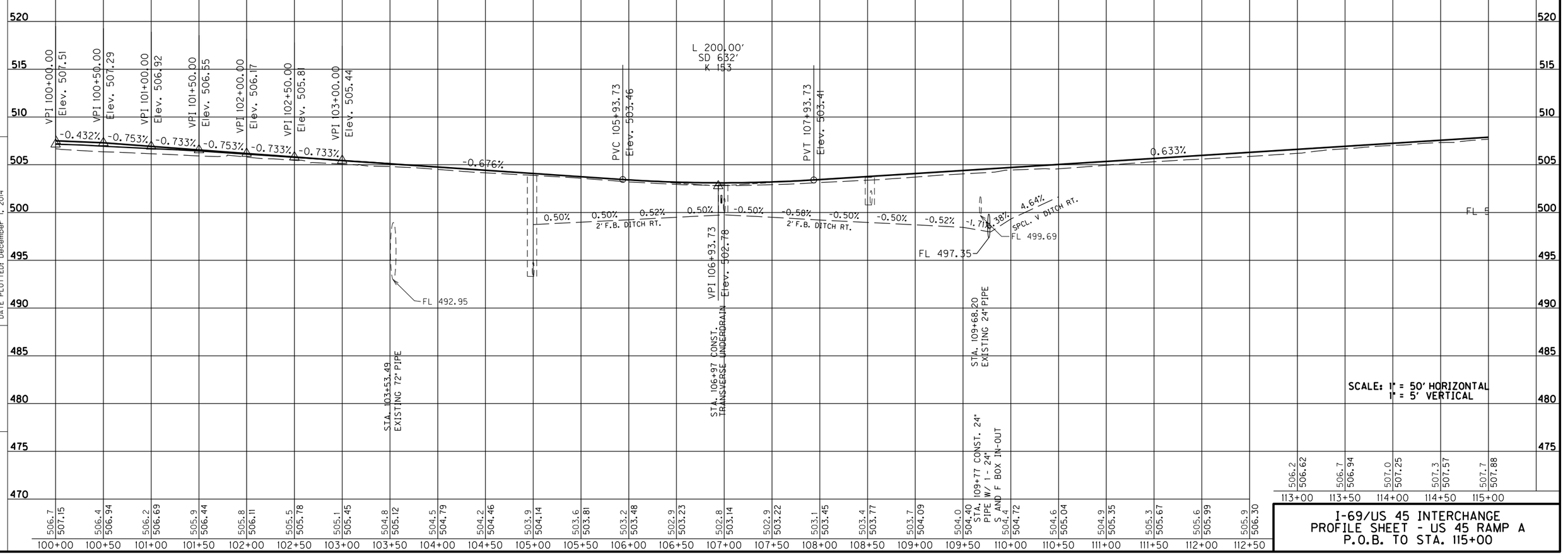
PRELIMINARY
SUBJECT TO CHANGE


OVERHEAD POWER
EL. 549.65 TEMP. 13°
L 425.00'
SD 379'
K 83
PVC 55+57.39
Elev. 535.37
-4.454%
15" ENT. PIPE
15" ENT. PIPE
-0.5%
-2.14%
-1.84%
-5.0%
0.5%
0.655%
WATER XING
GAS XING
WATER XING
8" PVC
FL 521.14
VPI 57+69.89
Elev. 525.90
FL 522.86
8" PVC
PVT 59+82.39
Elev. 527.30
VPI 60+50.00
Elev. 527.74
8" PVC = SAN = 8" PVC = SAN = 8" PVC = SAN = 8" PVC = SAN
STA. 56+09.18
EXISTING 15" PIPE
STA. 58+65 CONST. 1 - 24" PIPE CULVERT W/ 2 SLOPED & FLARED BOX INLETS/OUTLETS
STA. 58+87.13
EXISTING 18" PIPE
STA. 59+28 CONST. TRANSVERSE UNDERDRAIN
RT. STA. 59+97 CONST. 1 - DROP BOX INLET TYPE II W/ 15" PIPE AND SLOPED BOX OUTLET TYPE I
GM
WM
TI
TI
TI

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R29

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 100+00 TO STA. 115+00	85	6,164	0



I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 RAMP A
P.O.B. TO STA. 115+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R02900PR.DGN
USER: ryan-s
DATE PLOTTED: December 1, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R29A

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
US 45 RAMP A TOTALS:	257	7,988	0
SHEET TOTALS: STA. 115+00 TO END RAMP	172	1,824	0

OVERHEAD TELEPHONE
EL. 545.47 TEMP. 13°

VPI 121+61.73
Elev. 525.53

L 225.00'
SD 566'
K 86

PVC 115+36.51
Elev. 508.12

PVT 117+61.51
Elev. 512.49

PVT 125+61.73
Elev. 521.92

VPI 127+39.43
Elev. 520.32

3.25%
-2.28%
-0.902%
-0.50%
-0.51%
SPCL. V DITCH RT.
3.71%
3.80%
2' F.B. DITCH RT.
3.257%
2.67%
0.69%
2.26%
2.80%
2' F.B. DITCH RT.
2.82%
2.68%
-10.60%
SPCL. V DITCH LT.
12.34%
SPCL. V DITCH LT.
-0.50%
3.04%

FL 501.78
FL 500.80
FL 507.03

VPI 116+49.01
Elev. 508.83

PVC 117+61.73
Elev. 512.50

STA. 118+18.73
EXISTING 18" PIPE

L 800.00'
SD 644'
K 192

STA. 115+25.06
EXISTING 30" PIPE

STA. 115+50 CONST. 30"
PIPE W/ 2 - 30"
S AND F BOX IN-OUT

	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00	124+50	125+00	125+50	126+00	126+50	127+00
	507.7	508.0	508.3	508.7	509.4	510.4	511.7	513.2	514.7	516.0	517.3	518.1	518.8	519.6	520.3	520.8	521.2	521.5	521.7	521.8	521.8	521.7	521.5	521.0	520.7
	507.88	508.21	508.75	509.59	510.71	512.13	513.72	515.19	516.53	517.73	518.80	519.74	520.54	521.21	521.75	522.15	522.42	522.56	522.56	522.43	522.17	521.80	521.42	521.05	520.67

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

I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 RAMP A
STA. 115+00 TO P.O.E

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R029A0PR.DGN
USER: ryan-s
DATE PLOTTED: December 1, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R30

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 200+00 TO STA. 212+00	3,459	18,281	2,170

DATUM 565 560 555 550 545 540 535 530 525 520 515 510 505 500 495 490 485 480 475 470

OVERHEAD TELEPHONE
EL. 547.12 TEMP. 13°

VPI 200+00.00
Elev. 523.02

-0.182%

-0.50%
SPCL. V DITCH RT.

-0.60%

PVC 200+09.89
Elev. 523.01

VPI 201+64.89
Elev. 522.72

L 310.00'
SD 1067'
K 262

PVC 203+19.89
Elev. 520.61

PVT 203+40.11
Elev. 520.33

-1.36%

L 160.00'
SD 21048'
K 91

VPI 204+20.11
Elev. 519.24

STA. 204+64 CONST.
TRANSVERSE UNDERDRAIN

PVT 205+00.11
Elev. 519.56

0.400%

-1.18%

-0.50%
SPCL. V
DITCH RT.

-1.96%

2' F.B. DITCH RT.

-0.78% -0.51%

PVC 206+33.34
Elev. 520.09

-0.50%

L 200.00'
SD 360'
K 48

VPI 207+33.34
Elev. 520.49

-1.12%

PVT 208+33.34
Elev. 516.74

-3.90%

-3.750%

2' F.B. DITCH RT.

-11.02%

-12.06%

-4.30%

-0.96%

4' F.B. DITCH RT.

-0

PVC 210+40.07
Elev. 508.99

L 400.00'
SD 434'
K 98

STA. 210+10 CONST. TRANSVERSE UNDERDRAIN

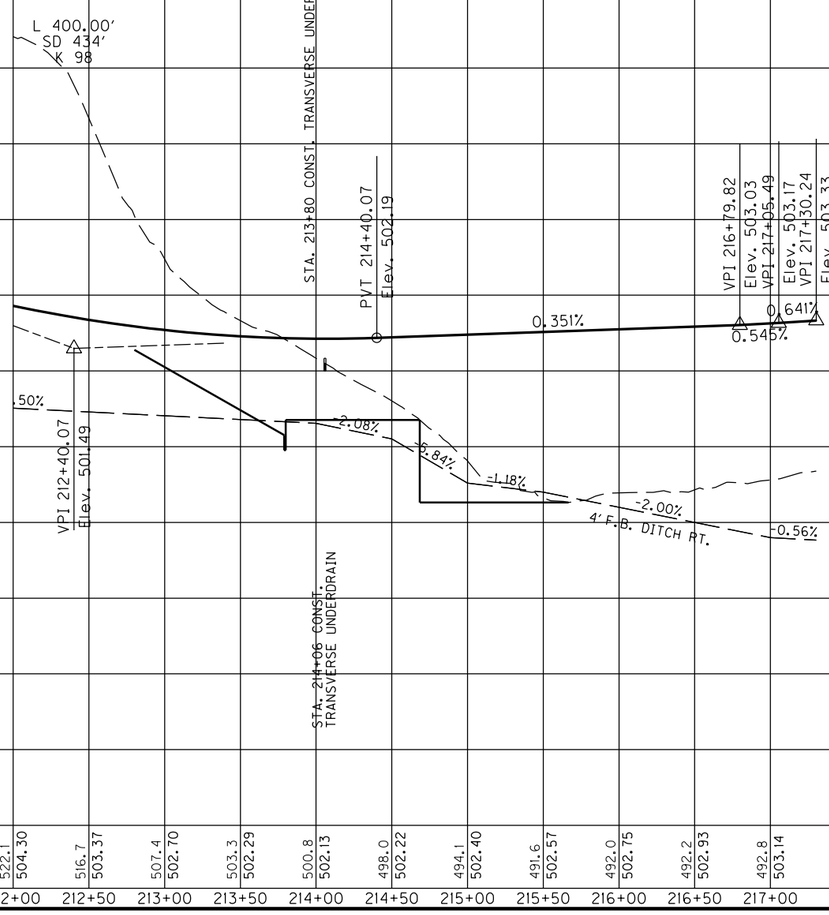
| | | |

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R30A

DATUM

	COM. EMB.	GRAN. EMB.	EXC.	EMB. BENCH
US 45 RAMP B TOTALS:	7,290	29,316	2,170	
SHEET TOTALS: STA. 212+00 TO END RAMP	3,831	11,035	0	

PRELIMINARY
SUBJECT TO CHANGE



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

I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 RAMP B
STA. 212+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R030A0PR.DGN
USER: will
DATE PLOTTED: December 1, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R31

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	GRAN. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA. 400+00 TO STA. 411+00	896	31,930	0	

DATUM 545 540 535 530 525 520 515 510 505 500 495 490 485 480 475 470 465 460 455

VPI 400+00.00 Elev. 506.42
-1.400%
PVC 400+36.76 Elev. 505.91
VPI 401+19.33 Elev. 504.75
L 165.14'
SD 709'
K 96
-3.122%
PVT 402+01.90 Elev. 502.18
PVC 403+00.51 Elev. 499.10
L 325.00'
SD 410'
K 88
VPI 404+63.01 Elev. 494.02
PVT 406+25.51 Elev. 494.98
0.588%
PVC 408+50.00 Elev. 496.30
VPI 410+50.00 Elev. 497.47
L 400.00'
SD 716'
K 142
-0.78% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50% -0.50%
2' F.B. DITCH LT.
2' F.B. DITCH RT.
9.04%
FL 538.83

STA. 405+74 CONST. TRANSVERSE UNDERDRAIN

STA. 408+75 CONST. TRANSVERSE UNDERDRAIN STA. 409+00 CONST. 30" PIPE W/ 1-PIPE CULVERT HEADWALL AND 1 - S AND F BOX IN-OUT

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

	400+00	400+50	401+00	401+50	402+00	402+50	403+00	403+50	404+00	404+50	405+00	405+50	406+00	406+50	407+00	407+50	408+00	408+50	409+00	409+50	410+00	410+50	411+00
	523.5	523.2	523.5	523.4	523.2	522.9	521.6	514.9	508.3	505.5	502.4	497.1	497.5	496.9	501.3	504.1	500.9	497.8	494.9	491.2	496.7	497.0	496.7
	506.42	505.72	504.82	503.66	502.24	500.67	499.11	497.69	496.56	495.71	495.14	494.86	494.87	495.12	495.42	495.71	496.00	496.30	496.68	497.24	497.97	498.88	499.97

I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 RAMP C
P.O.B. TO STA. 411+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R03100PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R31A

	COM. EMB.	EXC.	EMB. BENCH
US 45 RAMP C TOTALS:	20,025	32,485	0
SHEET TOTALS: STA. 411+00 TO END RAMP	19,129	556	0

PRELIMINARY
SUBJECT TO CHANGE

L 400.00'
SD 716'
K 142

PVT 412+50.00
Elev. 504.28

VPI 415+32.16
Elev. 513.89

VPI 415+50.00
Elev. 514.51

VPI 416+00.00
Elev. 516.26

VPI 416+50.00
Elev. 518.00

VPI 416+64.74
Elev. 518.52

VPI 417+00.00
Elev. 519.54

VPI 417+25.07
Elev. 520.27

3.405%
3.475%
3.500%
3.480%
3.528%
2.881%
2.930%

FL 582.98
FL 581.55

5.62%
5.00%
6.38%

STA. 412+80 CONST. 54"
PIPE W/ 2-PIPE CULVERT
HEADWALLS

STA. 414+38 CONST. 96'
PIPE W/ 2-PIPE CULVERT
HEADWALLS

496.7	496.6	495.1	488.1	487.2	489.1	487.3	484.6	488.6	491.2	492.6	494.0	495.2								
499.97	501.23	502.67	504.28	505.99	507.69	509.39	511.09	512.80	514.51	516.26	518.00	519.54								
411+00	411+50	412+00	412+50	413+00	413+50	414+00	414+50	415+00	415+50	416+00	416+50	417+00								

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

I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 RAMP C
STA. 411+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R031AOPR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R32

DATUM

PRELIMINARY
SUBJECT TO CHANGE

VPI 300+00.00 Elev. 518.79
-4.200%
VPI 300+50.00 Elev. 516.69
-3.600%
VPI 301+00.00 Elev. 514.89
-3.600%
VPI 301+50.00 Elev. 513.09
-3.600%
VPI 302+00.00 Elev. 511.29
-3.600%
VPI 302+50.00 Elev. 509.49
-3.680%
PVC 304+13.05 Elev. 503.49
L 275.00'
SD 442'
K 86
SPCL. V DITCH LT.
-6.68%
-4.34%
2' F.B.
DITCH LT.
-9.98%
VPI 305+50.55 Elev. 498.43
-4.02%
2.00%
-2.00%
3.13%
PVT 306+88.05 Elev. 497.76
-0.485%
VPI 310+10.54 Elev. 496.20

	COM. EMB.	EXC.	EMB. BENCH
RAMP AND SHEET TOTALS: STA. 300+00 TO END RAMP	27,168	117	0

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

491.9 518.79 | 491.7 516.69 | 491.3 514.89 | 490.6 513.09 | 489.5 511.29 | 486.4 509.49 | 482.5 507.65 | 486.5 505.81 | 493.2 503.97 | 494.3 502.21 | 495.1 500.73 | 494.7 499.54 | 489.1 498.64 | 488.8 498.03 | 487.6 497.71 | 487.4 497.46 | 487.2 497.22 | 488.7 496.98 | 483.1 496.74 | 488.7 496.49 | 489.0 496.25

300+00 300+50 301+00 301+50 302+00 302+50 303+00 303+50 304+00 304+50 305+00 305+50 306+00 306+50 307+00 307+50 308+00 308+50 309+00 309+50 310+00

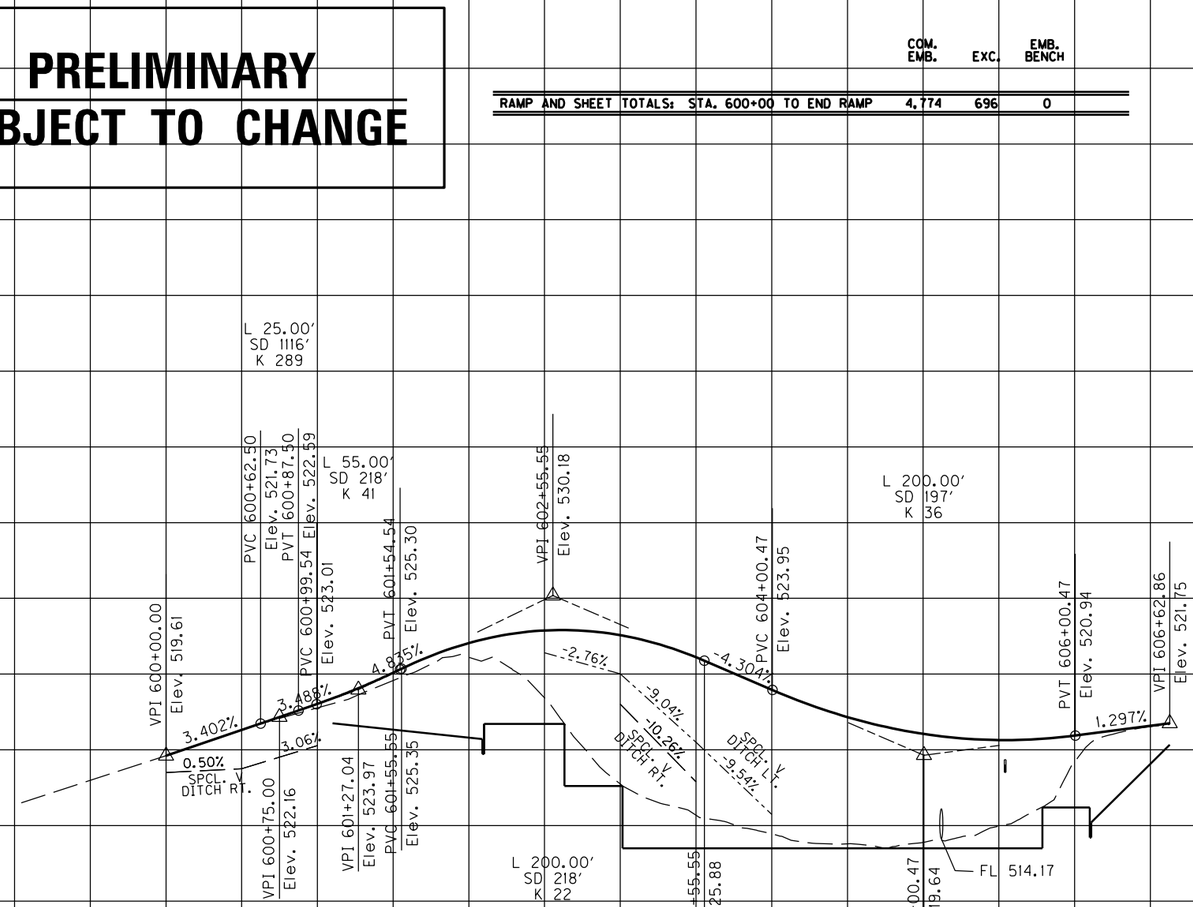
I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 RAMP D
STA. 300+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01402\R03200PR.DGN
USER: ryan-s
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R33

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
RAMP AND SHEET TOTALS: STA. 600+00 TO END RAMP	4,774	696	0



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

I-69/US 45 INTERCHANGE
PROFILE SHEET - US 45 NB TIE
P.O.B. TO P.O.E.

FILE NAME: C:\PW_WORKDIR\ANDREW-BVDMS01402\R03300PR.DGN
USER: ryan-s
DATE PLOTTED: May 31, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R34

PRELIMINARY
SUBJECT TO CHANGE

DATUM 565 560 555 550 545 540 535 530 525 520 515 510 505 500 495 490 485 480 475

VPI 700+00.00 Elev. 517.51
VPI 700+50.00 Elev. 517.74
VPI 701+00.00 Elev. 517.94
VPI 701+50.00 Elev. 518.27
VPI 702+00.00 Elev. 518.61
VPI 702+50.00 Elev. 518.95
VPI 702+97.21 Elev. 519.25
PVC 703+45.61 Elev. 519.53

0.470% 0.383% 0.668% 0.684% 0.666% 0.637% 0.584%

L 470.72'
SD 465
K 107

PVT 708+16.33
Elev. 532.67

5.000%

4.64% 4.16% 3.70% 6.18% 3.02% 2.80% 1.00%

0.50%
2' F.B. DITCH RT.

PVC 710+17.68
Elev. 542.74

L 100.00'
SD 262'
K 20

PVT 711+17.68
Elev. 545.19

VPI 710+67.68
Elev. 545.24

-0.093%

VPI 712+02.69
Elev. 545.11

12" SAN.
XING

FL 519.24

VPI 705+80.97
Elev. 520.90

1.00%
2' F.B. DITCH RT.

FL 514.00

0.50% 0.56% 7.20%

FL 509.68

STA. 700+22.22
EXISTING 24" PIPE

STA. 704+73.11
EXISTING 18" PIPE

STA. 706+00 CONST. 24" PIPE W/ 2 - 24" S AND F BOX IN-OUT

	COM. EMB.	EXC.	EMB. BENCH
RAMP AND SHEET TOTALS: STA. 700+00 TO END RAMP	5,190	2,702	3,023

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

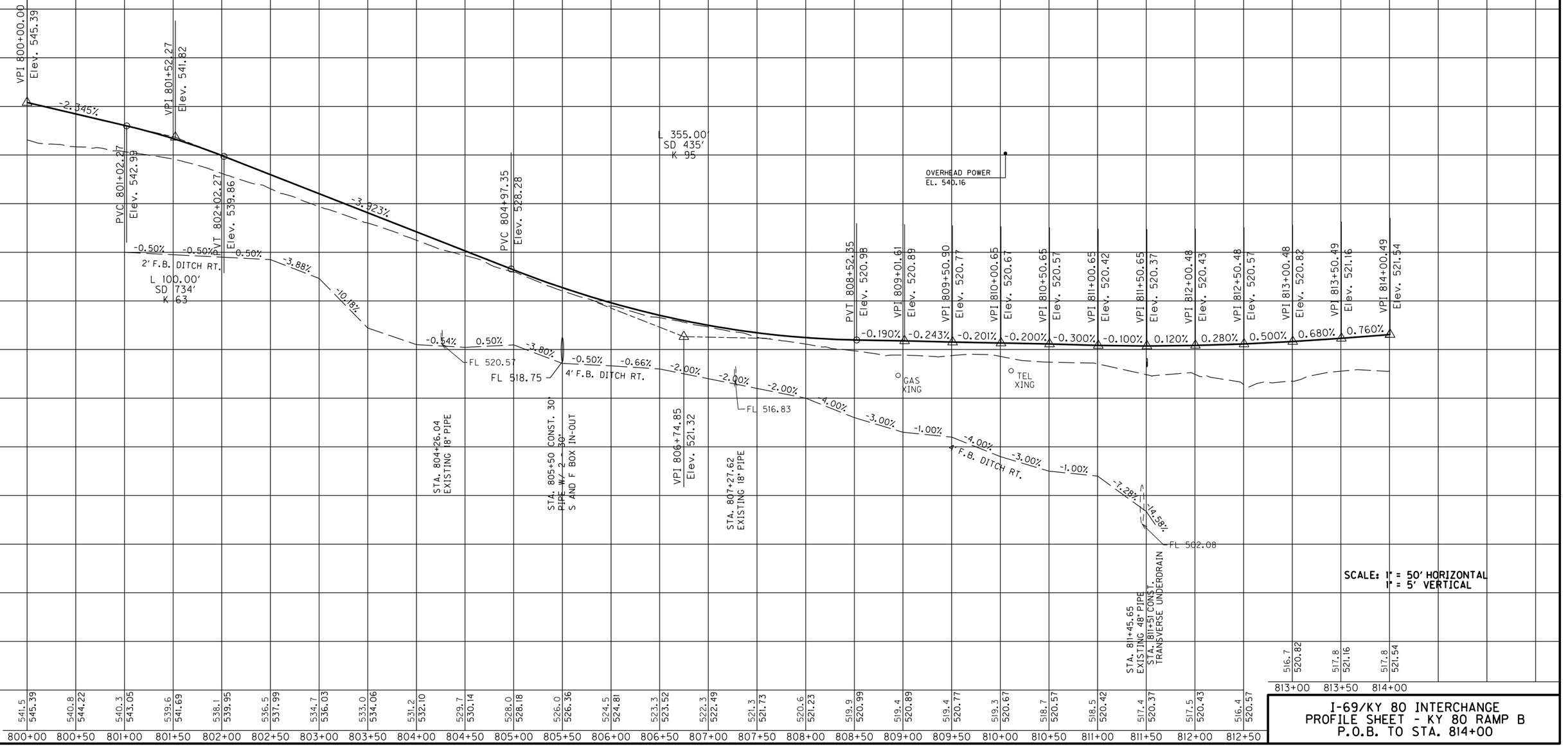
| | | |

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R35

DATUM

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
SHEET TOTALS: STA 800+00 TO STA. 814+00	8,334	1,781	5,858



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

I-69/KY 80 INTERCHANGE
PROFILE SHEET - KY 80 RAMP B
P.O.B. TO STA. 814+00

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01402\R03500PR.DGN
USER: ryan-s
DATE PLOTTED: June 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

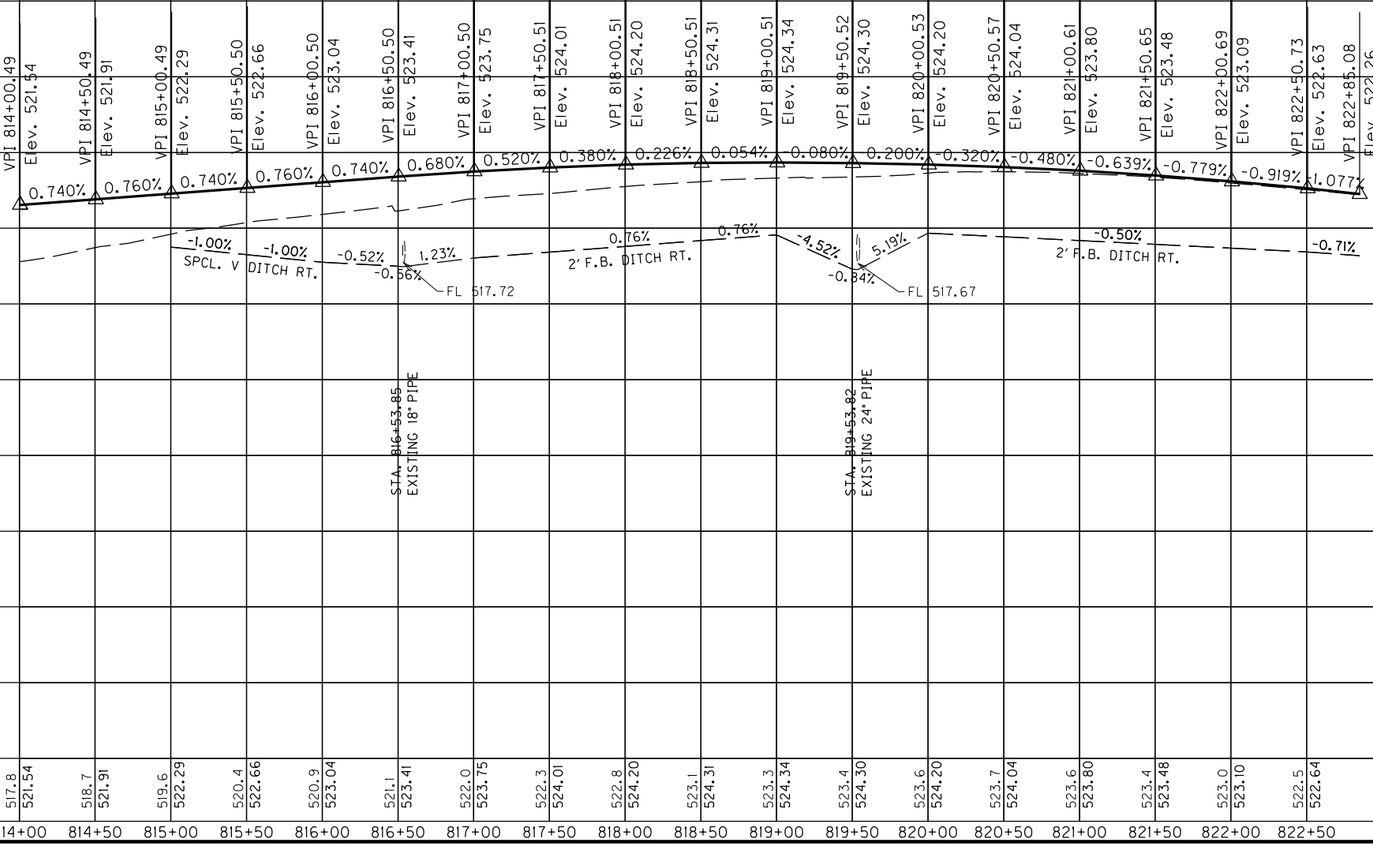
DATUM

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R35A

DATUM

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
KY 80 RAMP B TOTALS:	8,802	5,129	5,889
SHEET TOTALS: STA 814+00 TO END RAMP	468	3,348	31



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

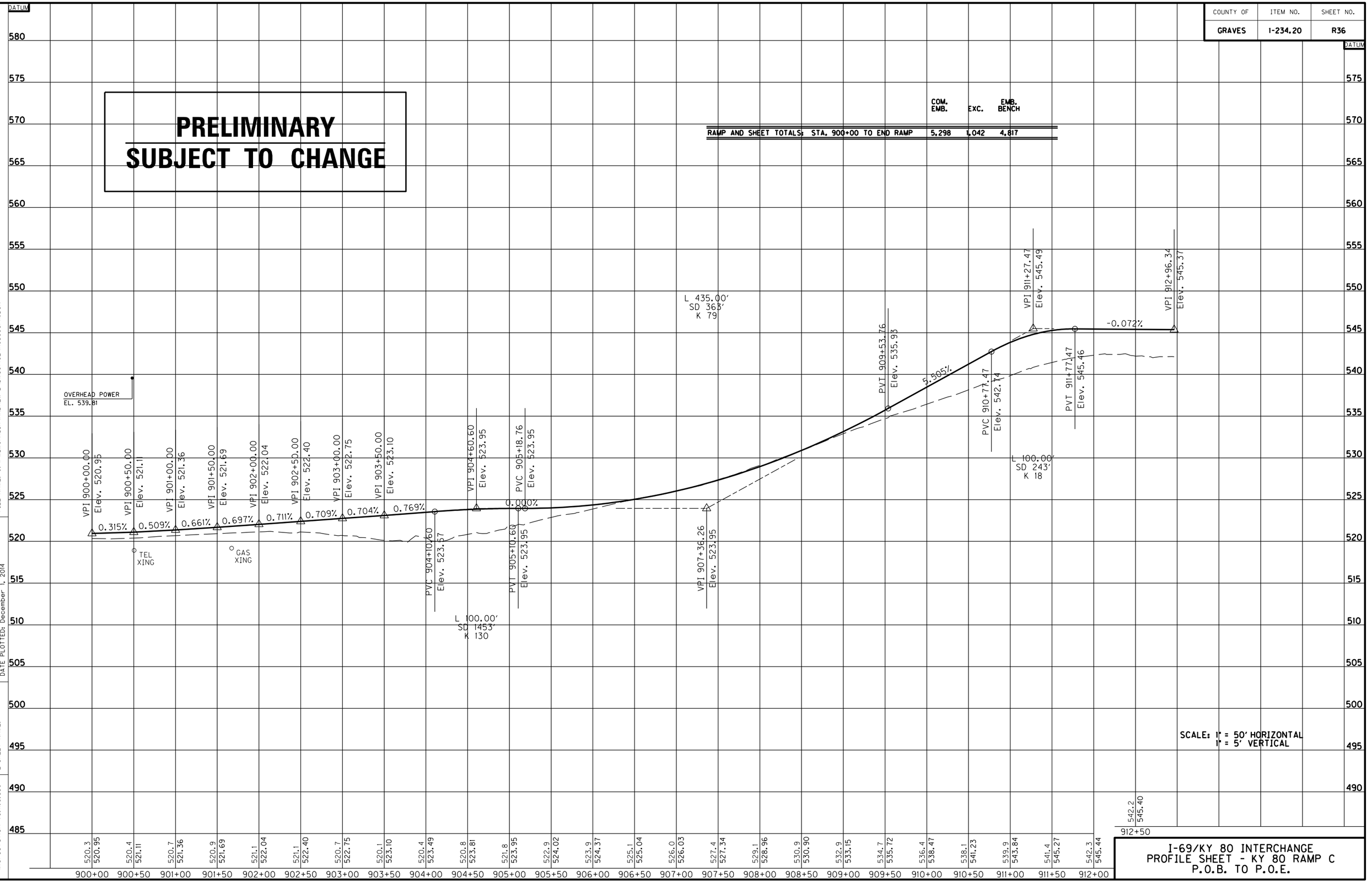
I-69/KY 80 INTERCHANGE
PROFILE SHEET - KY 80 RAMP B
STA. 814+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01402\R035A0PR.DGN
USER: ryan-s
DATE PLOTTED: June 2, 2015
E-SHEET NAME:
MicroStation V8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R36

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
RAMP AND SHEET TOTALS: STA. 900+00 TO END RAMP	5,298	1,042	4,817



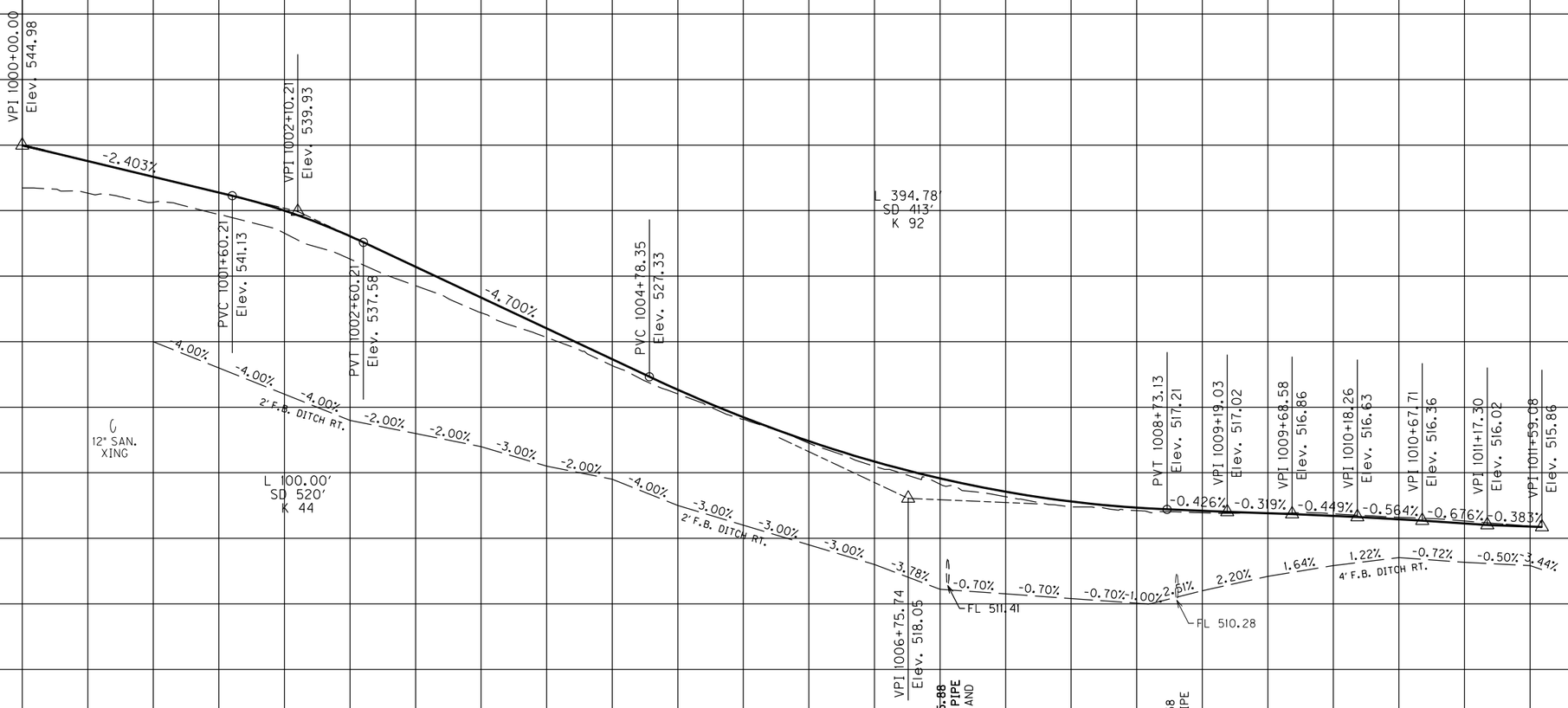
I-69/KY 80 INTERCHANGE
PROFILE SHEET - KY 80 RAMP C
P.O.B. TO P.O.E.

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01402\R03600PR.DGN
USER: ryan-s
DATE PLOTTED: December 1, 2014
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R37

PRELIMINARY
SUBJECT TO CHANGE

	COM. EMB.	EXC.	EMB. BENCH
RAMP AND SHEET TOTALS: STA. 1000+00 TO END RAMP	4,584	1,758	3,267



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

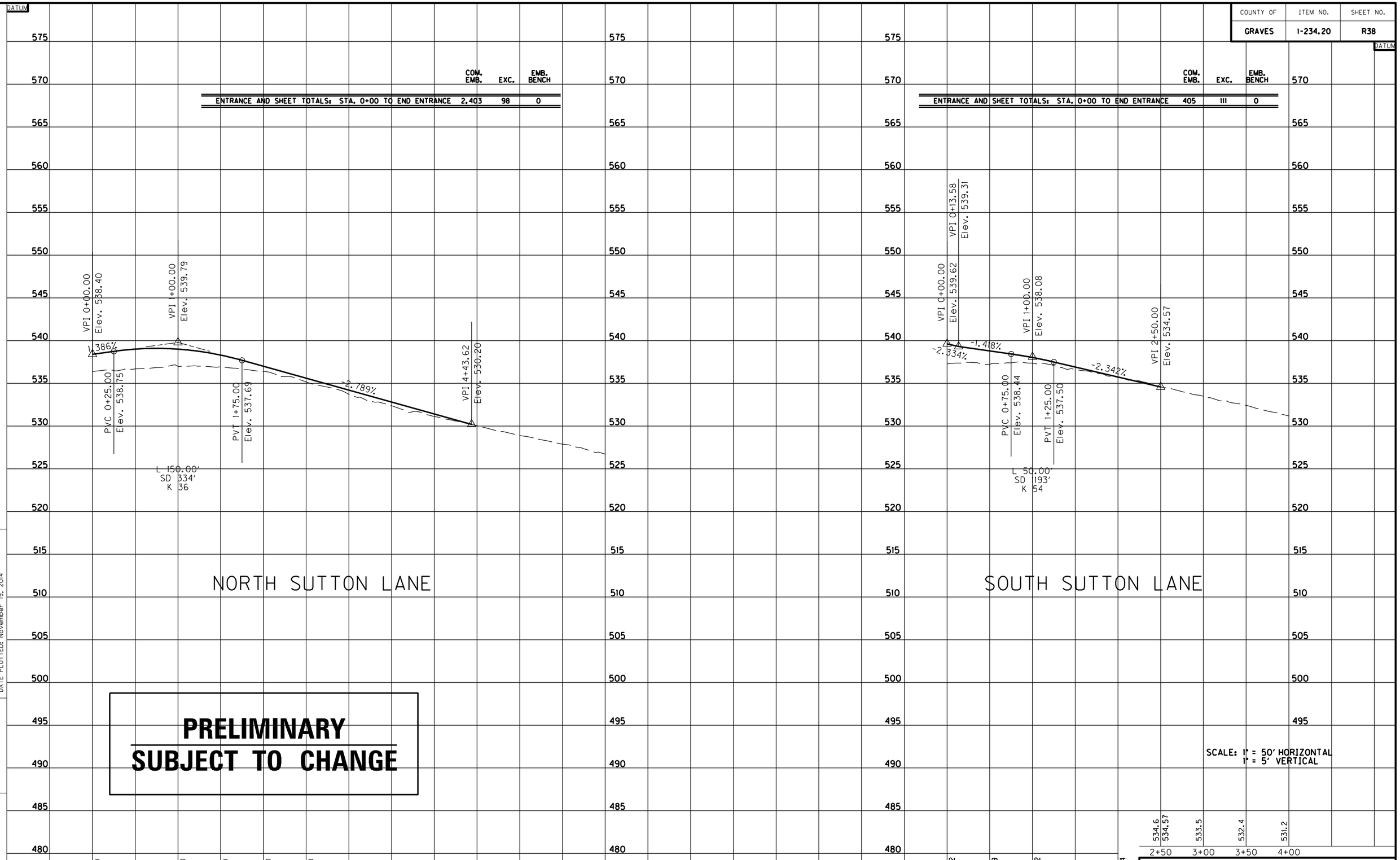
I-69/KY 80 INTERCHANGE
PROFILE SHEET - KY 80 RAMP D
STA. 1000+00 TO P.O.E.

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: November 19, 2014
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01402\R03700PR.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R38

ENTRANCE AND SHEET TOTALS: STA. 0+00 TO END ENTRANCE	COM. EMB.	EXC.	EMB. BENCH
	2,403	98	0

ENTRANCE AND SHEET TOTALS: STA. 0+00 TO END ENTRANCE	COM. EMB.	EXC.	EMB. BENCH
	405	III	0



PRELIMINARY
SUBJECT TO CHANGE

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

I-69/KY 80 INTERCHANGE
PROFILE SHEET - SUTTON LANE
P.O.B. TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01402\R03800PR.DGN
USER: will
DATE PLOTTED: November 19, 2014
E-SHEET NAME:
MicroStation v8.11.9.836

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R39

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

RIGHT OF WAY SUMMARY

PARCEL NO.	OWNER(S)	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				SOURCE OF TITLE	REMARKS*
						PERMANENT	TEMPORARY	LEFT		RIGHT							YES	NO	C	R	F	S		
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.									
1	NOT USED	30.10	-											30.10		4		✓					DB 369 PG 209	
2	CITY OF MAYFIELD	12.80	-		8,783									12.60		3		✓					DB 343 PG 661	
3	JAMES S. RILEY AND ALICE FRANCES (WF.)	28.62	-	(A) 1.07			2,796							27.55		3		✓					DB 217 PG 541	
4	JOEL T. NESLER AND SALLY (WF.)	7.08	-		(B) 18,180									6.66		3		✓					DB 485 PG 269	
5	BOBBY PURCELL AND TERESA (WF.) AND JESSE OGG AND SONYA (WF.)	5.34	-		14,732									5.00		3		✓					DB 364 PG 467	
6	NOT USED	-	-																				NOT USED	
7	NOT USED	-	-																				NOT USED	
8	GEORGE W. PETTY, JR. AND GEORGE C. PETTY	1.21	-		109		3570							1.208		3		✓					DB 444 PG 816	
9	NOT USED	-	-																				NOT USED	
10	NOT USED	-	-																				NOT USED	
11	ROBERT L. SULLIVAN AND BARBARA (WF.)	-	13,125			1,080									13,125	3		✓					DB 165 PG 233	
12	NOT USED	-	-																				NOT USED	
13	NOT USED		-																				NOT USED	
14	NOT USED	-	-																				NOT USED	
15	NOT USED	-	-																				NOT USED	
16	NOT USED	-	-																				NOT USED	
17	BRYAN T. GREEN AND ELIZABETH N. (WF.)	-	18,560				1129								18,560	3		✓					DB 443 PG 590	
18	LESLIE MICHELLE DUNKIN	-	7,243				557								7,243	3		✓					DB 459 PG 576	
19	NOT USED	-	-																				NOT USED	
20	NOT USED	-	-																				NOT USED	
21	NOT USED	-	-																				NOT USED	
22	NOT USED	-	-																				NOT USED	
23	NOT USED	-	-																				NOT USED	
24	NOT USED	-	-																				NOT USED	
25	NOT USED	-	-																				NOT USED	
26	NOT USED	-	-																				NOT USED	
27	NOT USED	-	-																				NOT USED	
28	NOT USED	-	-																				NOT USED	
29	NOT USED	-	-																				NOT USED	
30	NOT USED	-	-																					

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

(A) 1657 SF ENCUMBERED BY EXISTING PERMANENT EASEMENT.

(B) 4336 SF ENCUMBERED BY EXISTING PERMANENT EASEMENT.

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

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

*INCLUDES HAZARDOUS WASTE (UST - UNDERGROUND STORAGE TANKS)

RIGHT OF WAY SUMMARY SHEET

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\R03900RW.DGN
USER: ryan-s
DATE PLOTTED: May 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R39A

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

RIGHT OF WAY SUMMARY

PARCEL NO.	OWNER(S)	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				SOURCE OF TITLE	REMARKS*
						PERMANENT	TEMPORARY	LEFT		RIGHT							YES	NO	C	R	F	S		
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.									
31	NOT USED	-	-																				NOT USED	
32	JULIE W. MEYERS AND PHILLIP (HUSB.)	2.41	-				2,271							2.41		3		✓					DB 455 PG 556	
33	NOT USED	-	-													3		✓					NOT USED	
34	NOT USED	-	-																				NOT USED	
35	NOT USED	-	-																				NOT USED	
36	BARBARA J. HOLLAND	1.18	-		110		6,906							1.177		3		✓					DB 451 PG 255	
37	NOT USED	-	-																				NOT USED	
38	NANCY BARGER	-	30,405				2,419								30,405	3		✓					DB 437 PG 314	
39	NOT USED	-	-																				NOT USED	
40	NOT USED	-	-																				NOT USED	
41	NOT USED	-	-																				NOT USED	
42	NOT USED	-	-																				NOT USED	
43	TERRY J. FOX	-	19,883			1,947									19,883	3		✓					DB 429 PG 771	
44	CASH FARM LANDS, LLC	49.41	-		Ⓒ15,840									49.05		4		✓					DB 487 PG 513	
45	NOT USED	-	-																					

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

Ⓒ 4182 SF ENCUMBERED BY EXISTING PERMANENT EASEMENT.

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

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

*INCLUDES HAZARDOUS WASTE (UST - UNDERGROUND STORAGE TANKS)

RIGHT OF WAY SUMMARY SHEET

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01406\R039A0RW.DGN
USER: ryan-s
DATE PLOTTED: May 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R40

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

1114+69.56 I-69
BEGIN RW

MATCH STA. 1135+00 I-69

1130+00

1120+00

1110+00

1100+00

1090+00

1080+00

1070+00

1060+00

510+00

500+00

310+00

300+00

210+00

200+00

120+00

110+00

100+00

600+00

650+00

JAMES S. RILEY & ALICE FRANCES (WF) ③

EXIST. CA R/W

EXIST. CA LINE

MITCHELL DR.

410+00

S. SUTTON LN.

EXIST. R/W

RANDVIEW DR.

LAKESHORE DR.

OLD PRYORSBURG RD.

EXIST. R/W

EXIST. R/W

MAYFIELD-GRAVES COUNTY INDUSTRIAL DEVELOPMENT BOARD, INC

INDUSTRIAL AUTHORITY OF MAYFIELD-GRAVES COUNTY

INDUSTRIAL DR.

GREENWHILL CT.

SILVER CT.

FIELD CREST DR.

EXIST. CA R/W

EXIST. PERM. ESM'T.

EXIST. CA R/W

EXIST. PERM. ESM'T.

EXIST. CA R/W

EXIST. PERM. ESM'T.

EXIST. CA R/W

EXIST. PERM. ESM'T.

EXIST. R/W

CARDINAL ROAD

EXIST. R/W

EXIST. CA R/W

FULTON

EXIST. CA R/W

GARY S. LEE AND TENA F. (WF)

CLOYS BRUCE

SIDES LIMITED PARTNERSHIP

60' W. KY. RURAL ELECTRIC ESM'T

Mayfield Corp. Limit

CITY OF MAYFIELD ②

PROP. CA R/W & PROP. FENCE

1-181.50 CA R/W & FENCE

CAMPBELL TOBACCO REHANDLING COMPANY, INC.

MAYFIELD ELECTRIC AND WATER SYSTEMS

60' W. KY. RURAL ELECTRIC ESM'T

US 45

EXIST. R/W

EXIST. R.R. R/W

COMPRESSOR DR.

END EXISTING CONTROLLED ACCESS

MACEDONIA RD.

EXIST. R/W

EXIST. R/W

MOHLER LN.

EXIST. CA R/W

Mayfield Corp. Limit

1-181.50 CA R/W & FENCE

BYPASS

US 45

1-181.50 PROP. R/W

CARDINAL RD.

EXIST. CA RW

1-181.50 PERM. UTILITY ESM'T.

1-181.50 PERM. DRAINAGE ESM'T.

Mayfield Corp. Limit

END 1-181.50 CONTROLLED ACCESS

END 1-181.50 CONTROLLED ACCESS

1-181.50 PERM. UTILITY ESM'T.

EXIST. CA RW & FENCE

END 1-181.50 CONTROLLED ACCESS

BEGIN 1-181.50 CONTROLLED ACCESS

END 1-181.50 CONTROLLED ACCESS

US 45 S

P&L RR

1-181.50 CA R/W & FENCE

1-181.50 CA R/W & FENCE

BEGIN 1-181.50 CONTROLLED ACCESS

WINGO US 45

EXIST. R/W

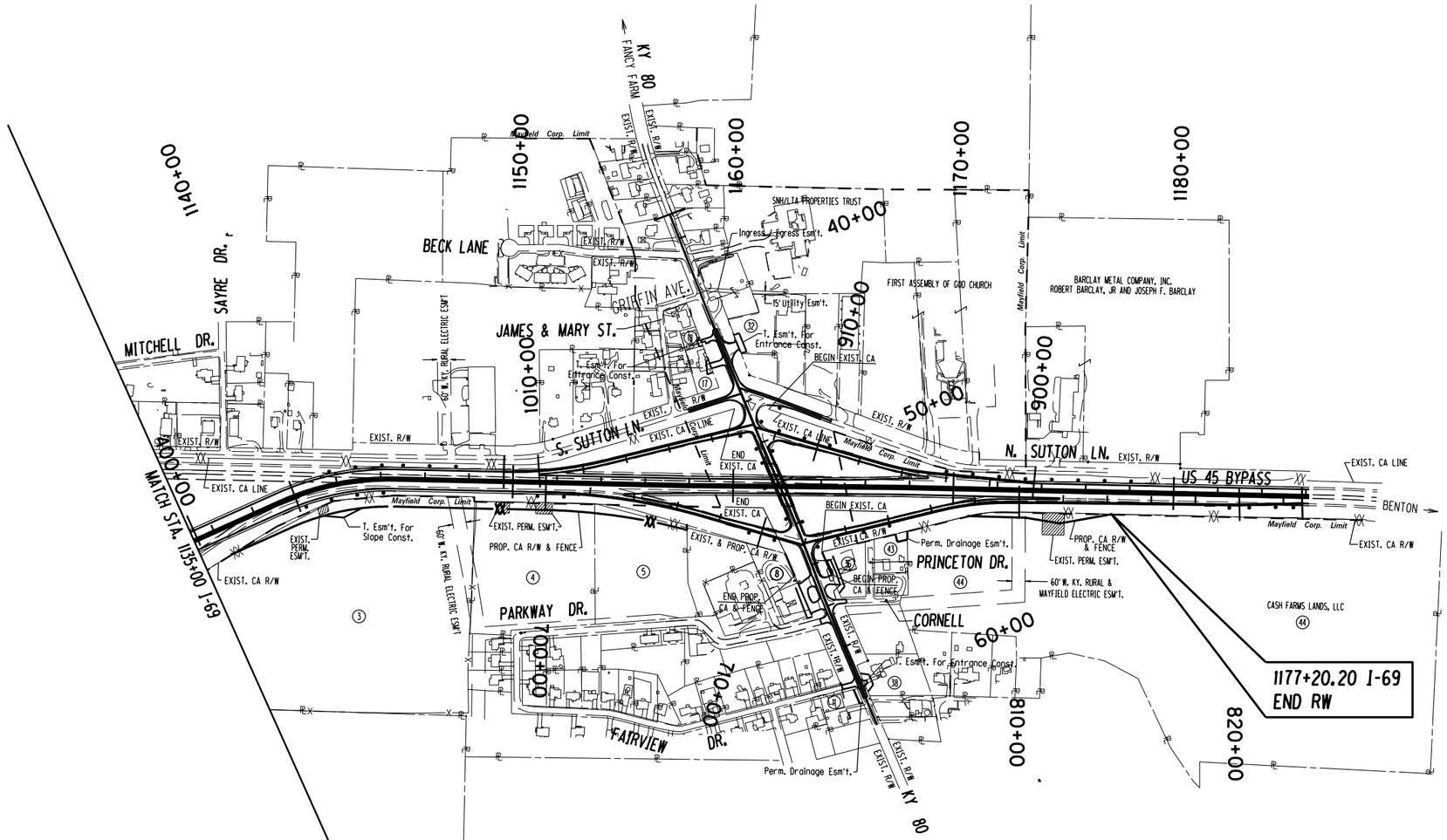
EXIST. RR R/W

SCALE: 1"=300'

I-69 INTERCHANGE
RIGHT OF WAY STRIP MAP
P.O.B. TO STA. 1135+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01401\R04000RW.DGN
USER: ryan-s
DATE PLOTTED: May 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R41



THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

(3) JAMES S. RILEY & ALICE FRANCES (WF)
(4) JOEL T. NESLER & SALLY (WF)
(5) BOBBY PURCELL AND TERESA (WF)
JESSE OGG AND SONYA (WF)
(6) NOT USED
(7) NOT USED
(8) GEORGE W. PETTY, JR. AND GEORGE C. PETTY
(9) NOT USED
(10) NOT USED
(11) ROBERT L. SULLIVAN AND BARBARA (WF)
(12) NOT USED
(13) NOT USED
(14) NOT USED
(15) NOT USED
(16) NOT USED
(17) BRYAN T. GREEN AND ELIZABETH N. (WF)
(18) LESLIE MICHELLE DUNKIN
(19) NOT USED
(20) NOT USED
(21) NOT USED
(22) NOT USED
(23) NOT USED
(24) NOT USED
(25) NOT USED
(26) NOT USED
(27) NOT USED
(28) NOT USED
(29) NOT USED
(30) NOT USED
(31) NOT USED
(32) JULIE W. MEYERS AND PHILLIP (HUSB)
(33) NOT USED
(34) NOT USED
(35) NOT USED
(36) BARBARA J. HOLLAND
(37) NOT USED
(38) NANCY BARGER
(39) NOT USED
(40) NOT USED
(41) NOT USED
(42) NOT USED
(43) TERRY J. FOX
(44) CASH FARM LANDS, LLC

SCALE: 1"=300'

I-69 INTERCHANGE
RIGHT OF WAY STRIP MAP
STA. 1135+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01401\R04100RW.DGN
USER: ryan-s
DATE PLOTTED: May 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R42

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	STATE PLANE COORDINATES		STATION AND OFFSET
		NORTH (Y)	EAST (X)	
POB	I-69 MAINLINE	3435709.1771	4060921.0020	1056+60.96
PC	I-69 MAINLINE	3436195.3406	4061441.1892	1063+72.96
PI	I-69 MAINLINE	3437389.7500	4062719.1881	1081+22.22, 342.39' LT.
PT	I-69 MAINLINE	3437352.0217	4064468.0367	1096+95.43
PC	I-69 MAINLINE	3437330.1365	4065482.4943	1107+10.12
PI	I-69 MAINLINE	3437285.6475	4067544.7269	1127+72.83, 1135.86 RT.
PT	I-69 MAINLINE	3439168.2065	4066701.6646	1133+37.62
POB	US 45 RAMP A	3437308.0576	4064467.6603	100+00.00
PC	US 45 RAMP A	3437279.1225	4064795.1025	103+28.72
PI	US 45 RAMP A	3437274.9504	4064842.3162	103+76.12, 0.15' LT.
PT	US 45 RAMP A	3437270.1527	4064889.4705	104+23.51
PC	US 45 RAMP A	3437181.1484	4065764.2502	113+02.81
PI	US 45 RAMP A	3437135.3719	4066214.1649	117+55.05, 174.18' LT.
PT	US 45 RAMP A	3436683.1348	4066213.6388	120+38.09
POE	US 45 RAMP A	3435982.4494	4066212.8237	127+38.78
POB	US 45 RAMP B	3436352.4757	4066274.2843	200+00.00
PC	US 45 RAMP B	3437205.9009	4066350.8559	208+56.85
PI	US 45 RAMP B	3437350.5403	4066363.8333	210+02.07, 14.58' LT.
PT	US 45 RAMP B	3437478.6937	4066432.1391	211+43.41
POE	US 45 RAMP B	3437996.5554	4066708.1595	217+30.24
PI	US 45 RAMP C	3438883.7770	4066780.8295	404+71.77, 133.78' LT.
PT	US 45 RAMP C	3438518.1771	4066482.6487	408+45.49
PC	US 45 RAMP C	3438316.6527	4066318.2869	411+05.54
PI	US 45 RAMP C	3438061.9672	4066110.5672	414+34.19, 68.83' RT.
PT	US 45 RAMP C	3437736.6034	4066156.9420	417+25.07
POE	US 45 RAMP C	3437265.5390	4066224.0838	422+00.89

COORDINATE CONTROL POINTS

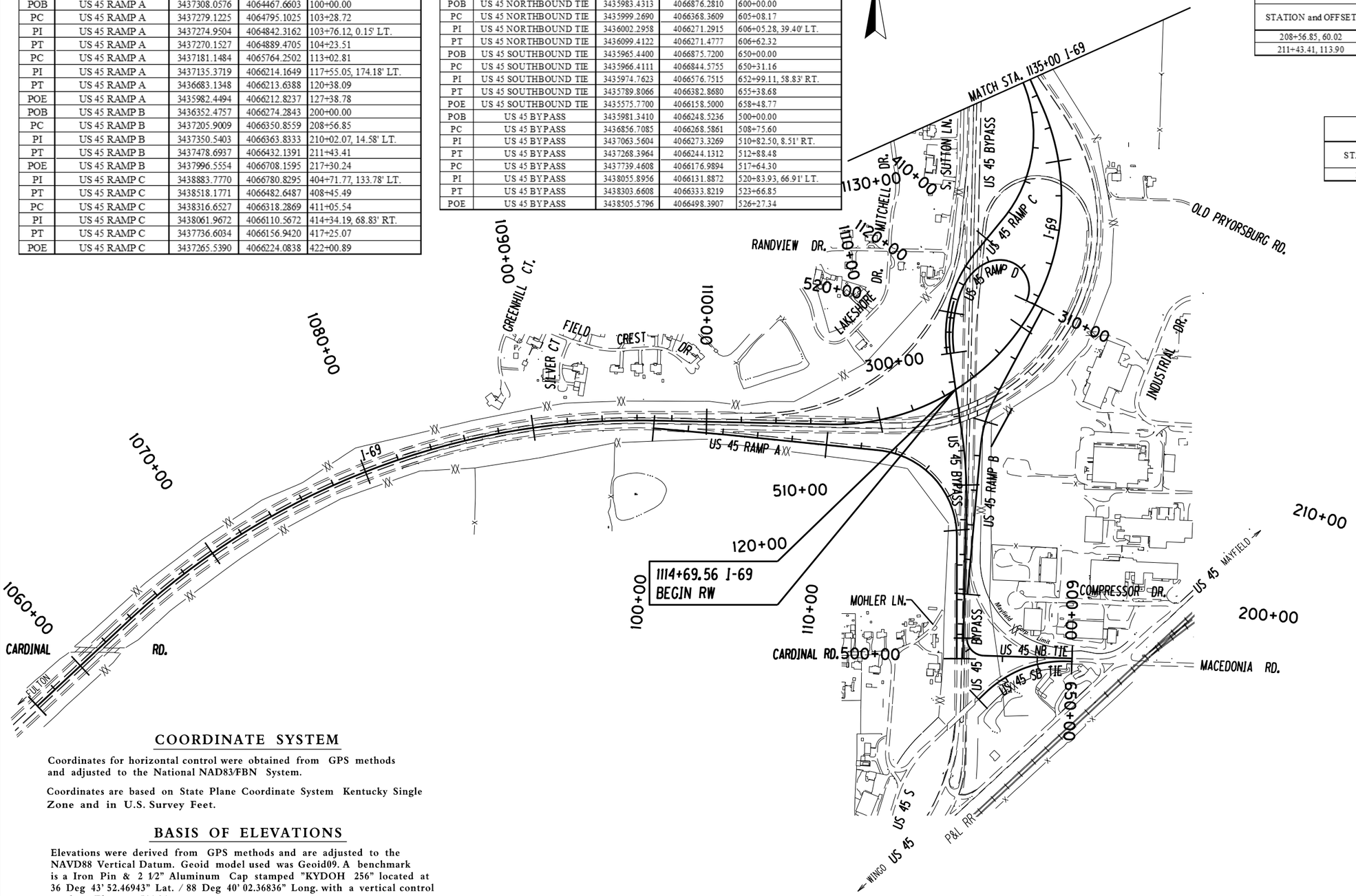
POINT	DESCRIPTION	STATE PLANE COORDINATES		STATION AND OFFSET
		NORTH (Y)	EAST (X)	
POB	US 45 RAMP D	3437271.2538	4066264.1786	295+24.23
PC	US 45 RAMP D	3437742.2658	4066197.0442	300+00.00
PI	US 45 RAMP D	3437888.0698	4066176.2625	301+47.28, 15.11 LT.
CS	US 45 RAMP D	3438030.1099	4066215.1891	302+90.44
SPI	US 45 RAMP D	3438332.2244	4066297.9848	306+03.69, 104.35' LT.
SC	US 45 RAMP D	3438270.1236	4066510.8458	307+15.44
PI	US 45 RAMP D	3438212.5733	4066708.1093	309+20.93, 98.53' LT.
PCC	US 45 RAMP D	3438032.3956	4066609.3120	310+10.54
POB	US 45 NORTHBOUND TIE	3435983.4313	4066876.2810	600+00.00
PC	US 45 NORTHBOUND TIE	3435999.2690	4066368.3609	605+08.17
PI	US 45 NORTHBOUND TIE	3436002.2958	4066271.2915	606+05.28, 39.40' LT.
PT	US 45 NORTHBOUND TIE	3436099.4122	4066271.4777	606+62.32
POB	US 45 SOUTHBOUND TIE	3435965.4400	4066875.7200	650+00.00
PC	US 45 SOUTHBOUND TIE	3435966.4111	4066844.5755	650+31.16
PI	US 45 SOUTHBOUND TIE	3435974.7623	4066576.7515	652+99.11, 58.83' RT.
PT	US 45 SOUTHBOUND TIE	3435789.8066	4066382.8680	655+38.68
POE	US 45 SOUTHBOUND TIE	3435575.7700	4066158.5000	658+48.77
POB	US 45 BYPASS	3435981.3410	4066248.5236	500+00.00
PC	US 45 BYPASS	3436856.7085	4066268.5861	508+75.60
PI	US 45 BYPASS	3437063.5604	4066273.3269	510+82.50, 8.51' RT.
PT	US 45 BYPASS	3437268.3964	4066244.1312	512+88.48
PC	US 45 BYPASS	3437739.4608	4066176.9894	517+64.30
PI	US 45 BYPASS	3438055.8956	4066131.8872	520+83.93, 66.91' LT.
PT	US 45 BYPASS	3438303.6608	4066333.8219	523+66.85
POE	US 45 BYPASS	3438505.5796	4066498.3907	526+27.34

RIGHT-OF-WAY MONUMENT POINTS

STATION and OFFSET	TYPE	DESCRIPTION	State Plane Coordinates	
			NORTH (Y)	EAST (X)
208+56.85, 60.02	1	U.S. 45 RAMP B	3437200.5374	4066410.6351
211+43.41, 113.90	1	U.S. 45 RAMP B	3437425.1190	4066532.6545

WITNESS POST

STATION and OFFSET	State Plane Coordinates	
	NORTH (Y)	EAST (X)
211+43.41, 114.90	3437424.6487	4066533.5370



COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid09. A benchmark is a Iron Pin & 2 1/2" Aluminum Cap stamped "KYDOH 256" located at 36 Deg 43' 52.46943" Lat. / 88 Deg 40' 02.36836" Long. with a vertical control mark at Elev = 514.34.

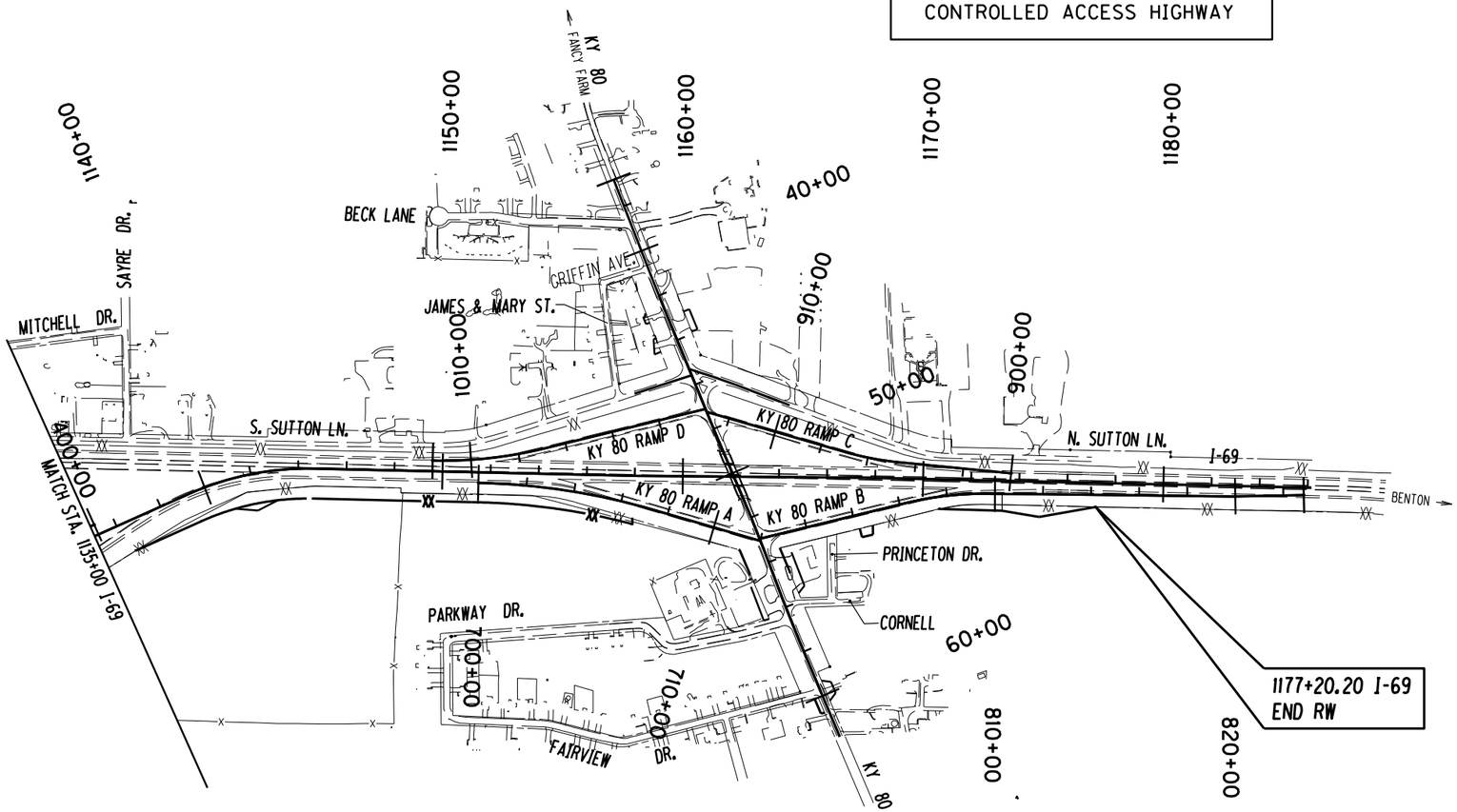
SCALE: 1"=300'

I-69 INTERCHANGE
COORDINATE CONTROL
P.O.B. TO STA. 1135+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\1\R04200CC.DGN
USER: ryan-s
DATE PLOTTED: May 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R43

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY



RIGHT-OF-WAY MONUMENT POINTS

STATION and OFFSET	TYPE	DESCRIPTION	State Plane Coordinates	
			NORTH (Y)	EAST (X)
1136+32.15, 125.00	1	I-69 MAINLINE	3439488.0936	4066695.3723
1139+31.71, 125.00	1	I-69 MAINLINE	3439761.4910	4066572.9374
1144+63.85, 125.00	1	I-69 MAINLINE	3440224.9504	4066479.3189
700+00.00, 81.00	1	KY 80 RAMP A	3440911.3630	4066494.7049
706+69.50, 81.00	1	KY 80 RAMP A	3441553.8844	4066585.4340
706+63.39, 59.98	1	KY 80 RAMP A	3441553.4680	4066563.5912
54+70.82, 67.91	1	KY 80	3442208.8538	4066786.4142
54+70.82, 68.91	1	KY 80	3442209.7890	4066786.0582
53+61.33, 64.33	1	KY 80	3442166.8186	4066684.7262
53+61.20, 63.33	1	KY 80	3442165.8345	4066684.9670
53+10.36, 93.38	1	KY 80	3442001.3800	4066694.1779
53+09.56, 94.40	1	KY 80	3442000.1405	4066693.8166
54+20.00, 90.44	1	KY 80	3442042.7384	4066794.2701
54+20.00, 89.44	1	KY 80	3442043.6760	4066793.9195
807+62.07, 50.57	1	KY 80 RAMP B	3442831.5861	4066522.1030
810+30.00, 70.00	1	KY 80 RAMP B	3443091.5901	4066529.7452
811+85.00, 95.00	1	KY 80 RAMP B	3443245.7412	4066555.4364
814+20.68, 50.51	1	KY 80 RAMP B	3443481.9481	4066513.8337

WITNESS POST

STATION and OFFSET	State Plane Coordinates	
	NORTH (Y)	EAST (X)
1139+31.71, 126.00	3439761.8997	4066573.8500
810+30.00, 71.00	3443091.5856	4066530.7452

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	STATE PLANE COORDINATES		STATION AND OFFSET
		NORTH (Y)	EAST (X)	
PC	I-69 MAINLINE	3439710.4016	4066458.8546	1139+31.71
PI	I-69 MAINLINE	3439957.2971	4066348.2879	1142+02.23, 97.78' LT.
PT	I-69 MAINLINE	3440227.7516	4066354.3502	1144+63.85
PI	I-69 MAINLINE	3441573.3678	4066384.5125	1158+09.81
PI	I-69 MAINLINE	3442514.7629	4066392.1626	1167+51.24
TS	I-69 MAINLINE	3444378.4897	4066433.5849	1186+15.42
PI	I-69 MAINLINE	3445416.7224	4066456.6602	1196+53.91
POB	US 45 RAMP C	3439578.7454	4066469.6033	397+10.30
PC	US 45 RAMP C	3439314.3513	4066588.0063	400+00.00
POB	KY 80	3441475.5676	4065151.8045	36+82.19
PI	KY 80	3441519.6324	4065265.7993	38+04.40
PI	KY 80	3441589.8200	4065445.9958	39+97.79
PI	KY 80	3441637.5015	4065567.6172	41+28.42
PI	KY 80	3441664.2573	4065634.0080	42+00.00
PI	KY 80	3441719.5606	4065769.2538	43+46.12
PI	KY 80	3441902.0106	4066213.6895	48+26.54
PC	KY 80	3442017.5112	4066486.2680	51+22.58
PI	KY 80	3442073.7494	4066618.9885	52+66.73, 1.55' LT.
PT	KY 80	3442124.2360	4066754.0017	54+10.83
PC	KY 80	3442146.8431	4066814.4582	54+75.37
PI	KY 80	3442211.6290	4066987.7109	56+60.34, 2.14' RT.
PT	KY 80	3442284.3530	4067157.7842	58+45.25
PI	KY 80	3442298.4743	4067190.8083	58+81.16
POE	KY 80	3442416.6422	4067470.0672	61+84.39

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	STATE PLANE COORDINATES		STATION AND OFFSET
		NORTH (Y)	EAST (X)	
PC	KY 80 RAMP A	3440913.1782	4066413.7253	700+00.00
PI	KY 80 RAMP A	3441287.1409	4066422.1077	703+74.06, 24.63' LT.
PT	KY 80 RAMP A	3441646.1796	4066527.0339	707+43.83
POE	KY 80 RAMP A	3442086.6143	4066655.7472	712+02.69
POB	KY 80 RAMP B	3442082.8887	4066646.2626	800+00.00
PC	KY 80 RAMP B	3442693.5150	4066497.1407	806+28.57
PI	KY 80 RAMP B	3442857.4269	4066457.1116	807+97.30, 10.66' LT.
PT	KY 80 RAMP B	3443026.1418	4066459.2808	809+64.24
PI	KY 80 RAMP B	3443046.4850	4066459.5423	809+84.58
PI	KY 80 RAMP B	3443246.5112	4066460.4389	811+84.61
PI	KY 80 RAMP B	3444046.4915	4066470.2169	819+84.65
POE	KY 80 RAMP B	3444346.6840	4066464.8859	822+84.89
POB	KY 80 RAMP C	3443129.1992	4066373.8108	900+00.00
PC	KY 80 RAMP C	3442670.3397	4066329.2432	904+61.02
PI	KY 80 RAMP C	3442548.3298	4066317.3927	905+83.60, 5.68' LT.
PT	KY 80 RAMP C	3442430.5886	4066283.2774	907+05.49
POE	KY 80 RAMP C	3441863.0732	4066118.8405	912+96.34
POB	KY 80 RAMP D	3441857.7383	4066105.8453	1000+00.00
PC	KY 80 RAMP D	3441183.5600	4066271.0280	1006+94.12
PI	KY 80 RAMP D	3440956.4495	4066326.6731	1009+27.95, 15.38' LT.
PT	KY 80 RAMP D	3440722.6801	4066321.4331	1011+59.08
POB	NORTH SUTTON LANE	3441789.7571	4065940.2475	0+00.00
PI	NORTH SUTTON LANE	3441890.6272	4065973.1467	1+06.10
PI	NORTH SUTTON LANE	3441980.3492	4066004.2684	2+01.07
POE	NORTH SUTTON LANE	3442072.8606	4066039.3338	3+00.00
POB	SOUTH SUTTON LANE	3441800.3605	4065966.0768	0+00.00
PI	SOUTH SUTTON LANE	3441683.3923	4066003.5761	1+22.83
POE	SOUTH SUTTON LANE	3441562.3199	4066042.4748	2+50.00

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid09. A benchmark is a Iron Pin & 2 1/2" Aluminum Cap stamped "KYDOH 256" located at 36 Deg 43' 52.46943" Lat. / 88 Deg 40' 02.36836" Long. with a vertical control mark at Elev = 514.34.

SCALE: 1"=300'

I-69 INTERCHANGE
COORDINATE CONTROL
STA. 1135+00 TO P.O.E.

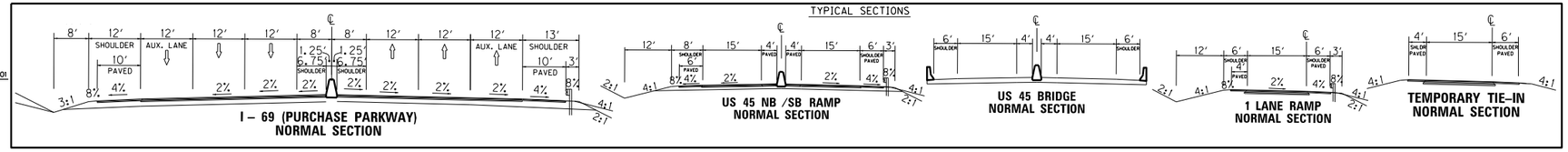
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0140\R04300CC.DGN
USER: ryan-s
DATE PLOTTED: May 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R44

ACCELERATION AND DECELERATION LANE CALCULATIONS

NB OFF RAMP	NB ON RAMP	SB OFF RAMP	SB ON LOOP RAMP
60 mph MAINLINE TO 40 mph RAMP REQUIRED DECEL. LENGTH = 350 ft. PROPOSED DECEL. LENGTH = 1300 ft.	40 mph RAMP TO 60 mph MAINLINE REQUIRED ACCEL. LENGTH = 550 ft. PROPOSED ACCEL. LENGTH = AUX. LANE	60 mph MAINLINE TO 40 mph RAMP REQUIRED DECEL. LENGTH = 350 ft. PROPOSED DECEL. LENGTH = AUX. LANE	25 mph RAMP TO 60 mph MAINLINE REQUIRED ACCEL. LENGTH = 1020 ft. PROPOSED ACCEL. LENGTH = 1200 ft.

TYPICAL SECTIONS



MAINLINE CURVE #1
PI STA. 1081+17.41
Δ= 44°22'33"
T=1752.59'
L=3328.18'
R=4297.19'
E=343.65'
e=3.7%
Runoff=148.00'
Runout=80.00'

NB OFF CURVE #1
PI STA. 103+76.12
Δ= 0°45'35"
T=47.40'
L=94.79'
R=7150.00'
E=0.16'
e=NC

NB OFF CURVE #2
PI STA. 117+55.05
Δ= 84°15'26"
T=452.24'
L=735.28'
R=500.00'
E=174.18'
e=8.0%
Runoff=207.00'
Runout=52.00'

LOOP RAMP CURVE #1
PI STA. 301+50.17
Δ= 23°53'05"
T=150.17'
L=295.98'
R=710.00'
E=15.71'
e=6.2%
Runoff=150.00'
Runout=48.00'

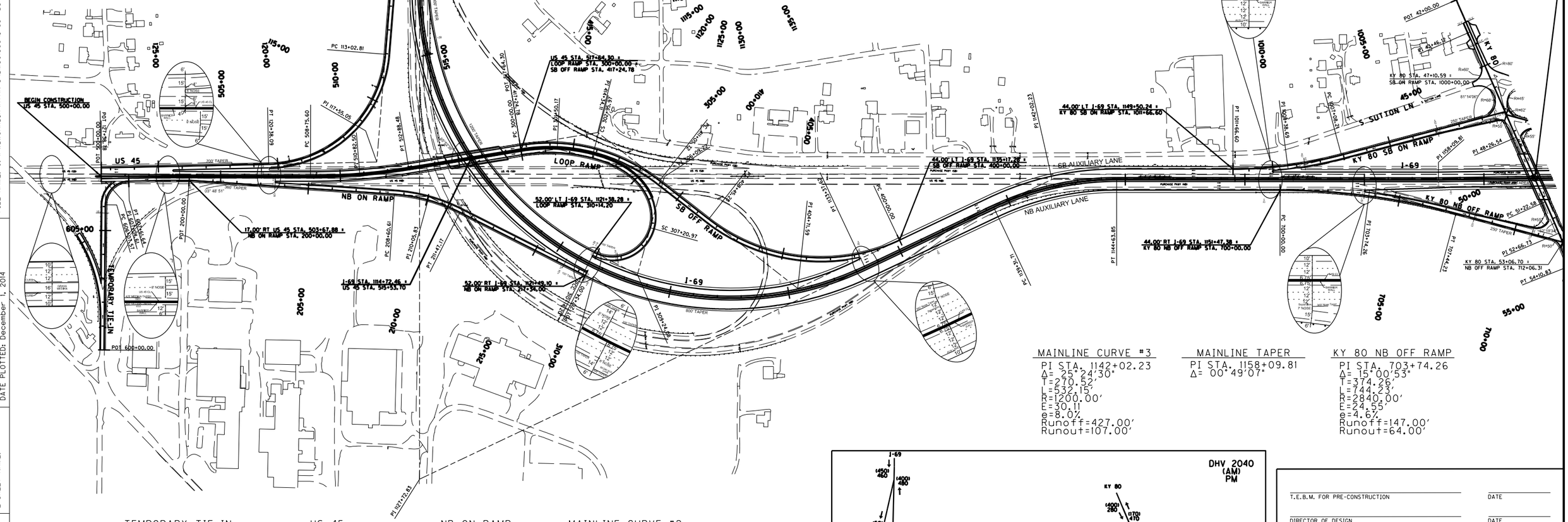
LOOP RAMP SPIRAL
PI STA. 306+09.22
Δ= 90°56'18"
Ri=710.00'
Re=165.00'
Ls=425.00'
p=33.14'
Δi=16°24'53"
Δs=74°31'25"
Ti=313.25'
Ts=380.25'
ei=6.2%
es=7.8%

LOOP RAMP CURVE #2
PI STA. 309+24.08
Δ= 101°49'18"
T=203.11'
L=293.23'
R=165.00'
E=96.68'
e=7.8%
Runoff=167.00'
Runout=43.00'

SB OFF CURVE #2
PI STA. 414+34.11
Δ= 47°17'34"
T=328.39'
L=619.06'
R=750.00'
E=68.74'
e=7.0%
Runoff=181.00'
Runout=52.00'

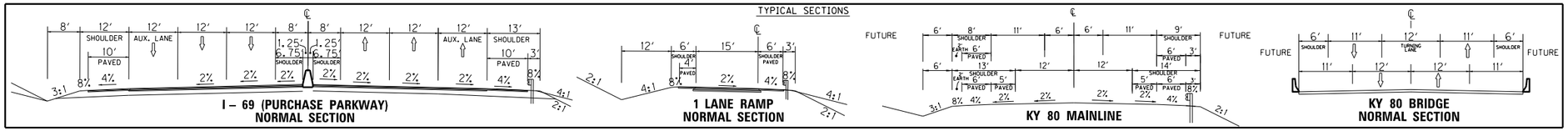
SB OFF CURVE #1
PI STA. 404+71.59
Δ= 63°18'18"
T=471.60'
L=845.23'
R=765.00'
E=133.68'
e=7.6%
Runoff=211.00'
Runout=56.00'

KY 80 SB ON RAMP
PI STA. 1009+38.69
Δ= 14°50'18"
T=230.49'
L=458.39'
R=1770.00'
E=14.94'
e=4.0%
Runoff=103.00'
Runout=52.00'


BEGIN CONSTRUCTION
US 45 STA. 500+00.00
POT 500+00.00
96.96' RT I-69 STA. 1096+95.00 =
NB OFF RAMP STA. 100+00.00
POT 100+00.00
PT 1096+93.01
PC 103+28.72
PI 103+76.12
PT 104+23.51
PC 1107+10.12
PC 113+02.81
PI 117+55.05
PC 508+75.60
PI 510+38.69
PT 512+88.48
PI 510+82.50
US 45
700' TAPER
600' TAPER
NB ON RAMP
NB OFF RAMP
LOOP RAMP
SB OFF RAMP
I-69
SB AUXILIARY LANE
NB AUXILIARY LANE
US 45 STA. 517+84.30 =
LOOP RAMP STA. 300+00.00 =
SB OFF RAMP STA. 417+24.78
POT 300+00.00
PC 300+00.00
PI 301+50.17
CS 302+59.97
SC 301+20.97
PI 309+24.08
PC 400+00.00
PI 404+71.59
PT 414+34.11
PC 505+00.00
PI 508+38.69
PT 510+92.50
PI 512+88.48
PC 508+75.60
PI 510+38.69
44.00' LT I-69 STA. 1149+50.24 =
KY 80 SB ON RAMP STA. 1011+66.60
PT 1011+66.60
44.00' LT I-69 STA. 1135+17.28 =
SB OFF RAMP STA. 400+00.00
PT 1144+63.85
44.00' RT I-69 STA. 1151+47.38 =
KY 80 NB OFF RAMP STA. 700+00.00
POT 700+00.00
PT 707+44.21
PC 51+22.58
PI 52+66.73
PT 54+10.83
KY 80 STA. 53+06.70 =
NB OFF RAMP STA. 712+06.31
I-69 STA. 1162+12.23 =
KY 80 STA. 50+15.62
POT 42+00.00
KY 80 STA. 47+10.59 =
SB ON RAMP STA. 1000+00.00
PI 45+48.18
PC 46+08.23
PI 48+26.54
KY 80 SB ON RAMP
KY 80 NB OFF RAMP
S SUTTON LN
250' TAPER
R=80'
R=60'
R=45'
R=65'
R=50'
R=55'
81°14'06"
92°42'10"
45°00'
50°00'
55°00'
SECONDARY TIE-IN
POT 600+00.00
PC 600+61.64
PI 601+36.64
PT 602+11.64
PC 208+60.61
PI 210+05.83
PI 211+41.17
I-69 STA. 1114+72.45 =
US 45 STA. 515+33.70
52.00' RT I-69 STA. 1121+38.28 =
LOOP RAMP STA. 310+14.20
52.00' RT I-69 STA. 1121+49.10 =
NB ON RAMP STA. 212+34.00
17.00' RT US 45 STA. 503+67.88 =
NB ON RAMP STA. 200+00.00
PI 509+24.00
PI 102+72.83
44.00' RT I-69 STA. 1142+02.23 =
KY 80 STA. 44+65.85
PC 1142+02.23
PI 1144+30.52
PT 1145+41.62
PI 1147+02.23
PC 1150+00.00
PI 1152+00.00
PT 1154+57.52
PC 1155+00.00
PI 1157+00.00
PT 1159+00.00
PC 1160+00.00
PI 1162+00.00
PT 1164+00.00
PC 1165+00.00
PI 1167+00.00
PT 1169+00.00
PC 1170+00.00
PI 1172+00.00
PT 1174+00.00
PC 1175+00.00
PI 1177+00.00
PT 1179+00.00
PC 1180+00.00
PI 1182+00.00
PT 1184+00.00
PC

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R44A

TYPICAL SECTIONS



ACCELERATION AND DECELERATION LANE CALCULATIONS

KY 80 NB OFF RAMP	KY 80 NB ON RAMP	KY 80 SB OFF RAMP	KY 80 SB ON RAMP
60 mph MAINLINE TO 55 mph RAMP REQUIRED DECEL. LENGTH = --- PROPOSED DECEL. LENGTH = AUX. LANE	50 mph RAMP TO 60 mph MAINLINE REQUIRED ACCEL. LENGTH = 180 ft. PROPOSED ACCEL. LENGTH = 1010 ft.	60 mph MAINLINE TO 45 mph RAMP REQUIRED DECEL. LENGTH = 300 ft. PROPOSED DECEL. LENGTH = 300 ft.	40 mph RAMP TO 60 mph MAINLINE REQUIRED ACCEL. LENGTH = 550 ft. PROPOSED ACCEL. LENGTH = AUX. LANE

44.00' LT I-69 STA. 1149+50.24 =
KY 80 SB ON RAMP STA. 1011+66.60

KY 80 SB ON RAMP
PI STA. 1009+38.69
Δ= 14°50'18"
T=230.49'
L=458.39'
R=1770.00'
E=14.94'
e=4.0%
Runoff=103.00'
Runout=52.00'

BEGIN CONSTRUCTION
STA. 43+00.89

I-69 STA. 1162+12.23 =
KY 80 OVERPASS STA. 50+15.62

KY 80 STA. 47+24.01 =
SB OFF RAMP STA. 912+86.54

KY 80 STA. 47+10.59 =
SB ON RAMP STA. 1000+00.00

KY 80 SB OFF RAMP
PI STA. 905+73.75
Δ= 10°22'53"
T=119.91'
L=239.17'
R=1320.00'
E=5.44'
e=5.8%
Runoff=161.00'
Runout=56.00'

32.00' LT I-69 STA. 1173+55.10 =
KY 80 SB OFF RAMP STA. 900+00.00

44.00' RT I-69 STA. 1151+47.38 =
KY 80 NB OFF RAMP STA. 700+00.00

KY 80 NB OFF RAMP
PI STA. 703+74.26
Δ= 15°00'53"
T=374.26'
L=744.23'
R=2840.00'
E=24.55'
e=4.6%
Runoff=147.00'
Runout=64.00'

MAINLINE TAPER #1
PI STA. 1158+09.81
Δ= 00°49'07" LT

MAINLINE TAPER #2
PI STA. 1166+49.86
Δ= 00°49'07" RT

KY 80 NB ON RAMP
PI STA. 808+05.17
Δ= 14°22'45"
T=167.77'
L=333.78'
R=1330.00'
E=10.54'
e=6.6%
Runoff=198.00'
Runout=60.00'

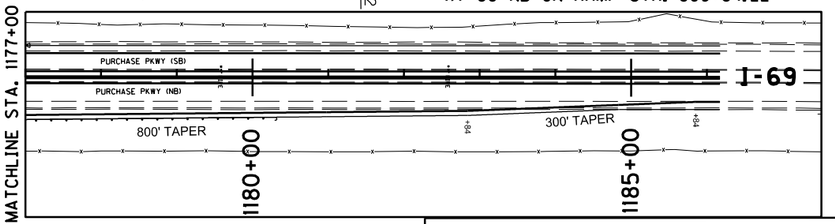
54.00' RT I-69 STA. 1172+84.32 =
KY 80 NB ON RAMP STA. 809+84.22

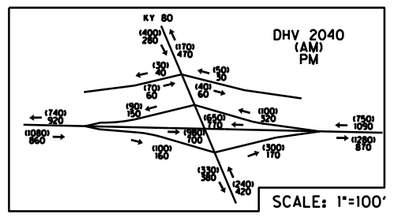
KY 80 STA. 53+06.70 =
NB OFF RAMP STA. 712+06.31

KY 80 STA. 52+96.35 =
NB ON RAMP STA. 800+00.00

END CONSTRUCTION
STA. 57+02.05

MATCHLINE STA. 1177+00





KY 80 DELTA #1	KY 80 DELTA #2	KY 80 CURVE #1	KY 80 CURVE #2
PI STA. 43+46.12 Δ= 00°04'44" LT	PI STA. 48+26.54 Δ= 00°38'41" LT	PI STA. 52+66.73 Δ= 02°27'41" T=144.14' L=288.24' R=6710.00' E=1.55' e=NC	PI STA. 56+60.34 Δ= 02°38'56" T=184.97' L=369.87' R=8000.00' E=2.14' e=NC

T.E.B.M. FOR PRE-CONSTRUCTION — DATE

DIRECTOR OF DESIGN — DATE

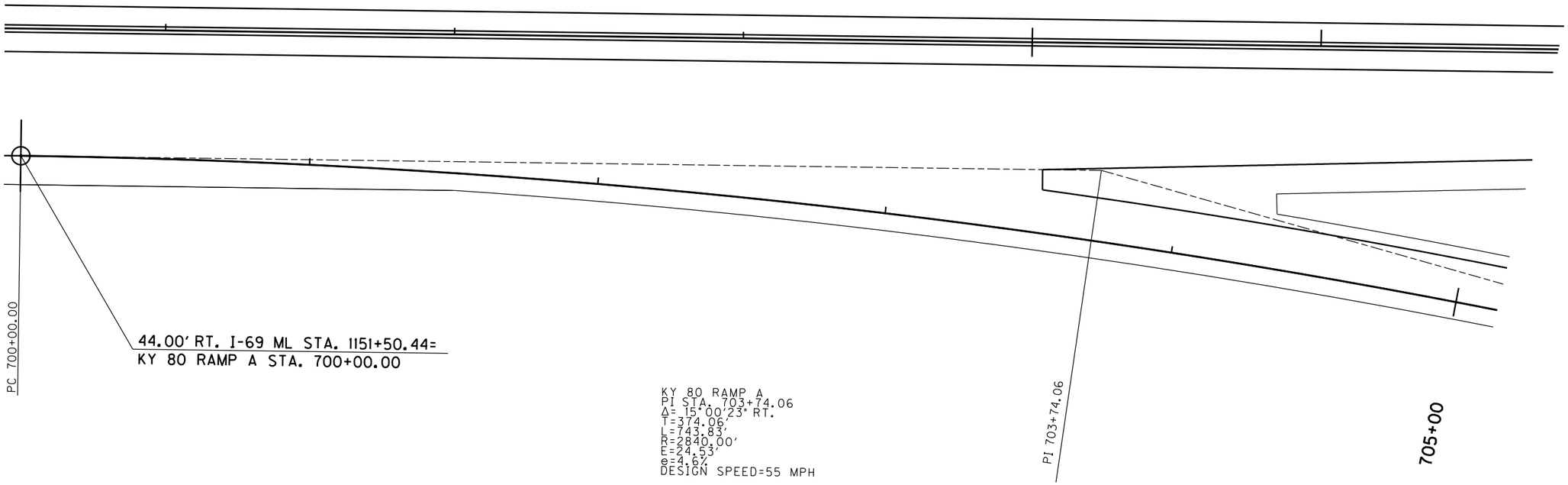
DIRECTOR OF TRAFFIC OPERATIONS — DATE

FEDERAL HIGHWAY ADMINISTRATION — DATE

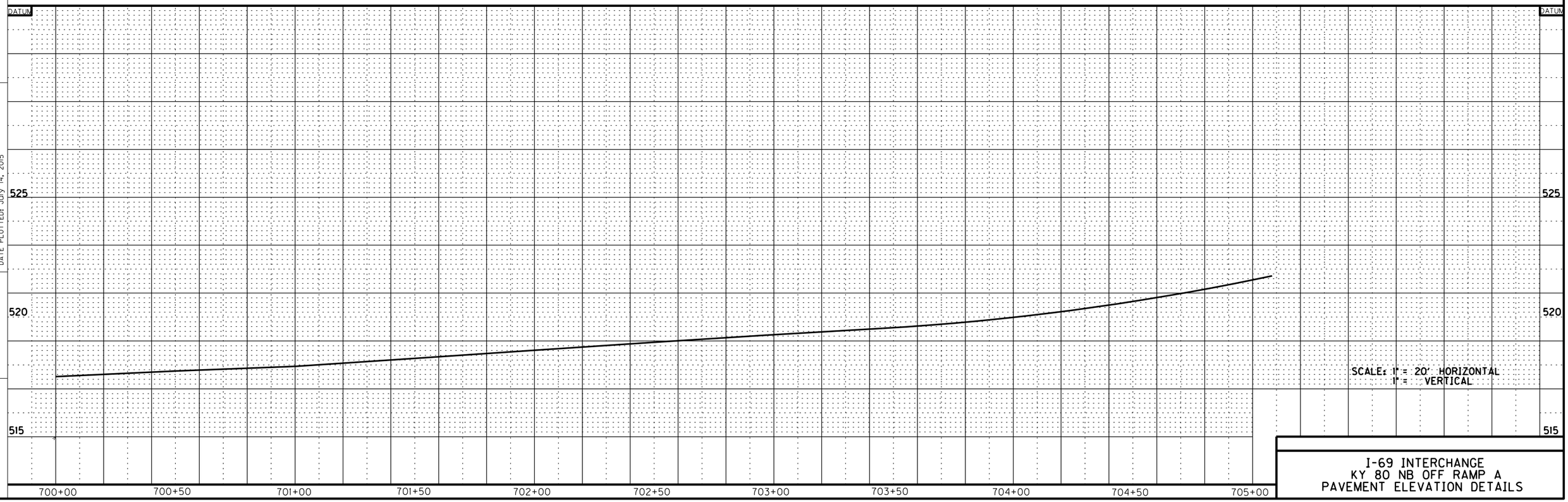
I-69/KY 80 INTERCHANGE
GRAVES COUNTY
INTERCHANGE APPROVAL SHEET

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01366\I-69--KY80 INTERCHANGE APPROVAL_100 SCALE_POST 11-17 MEETING.DGN
USER: will
DATE PLOTTED: December 3, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R45



SCALE: 1"= 20'



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

I-69 INTERCHANGE
KY 80 NB OFF RAMP A
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\P001-2.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

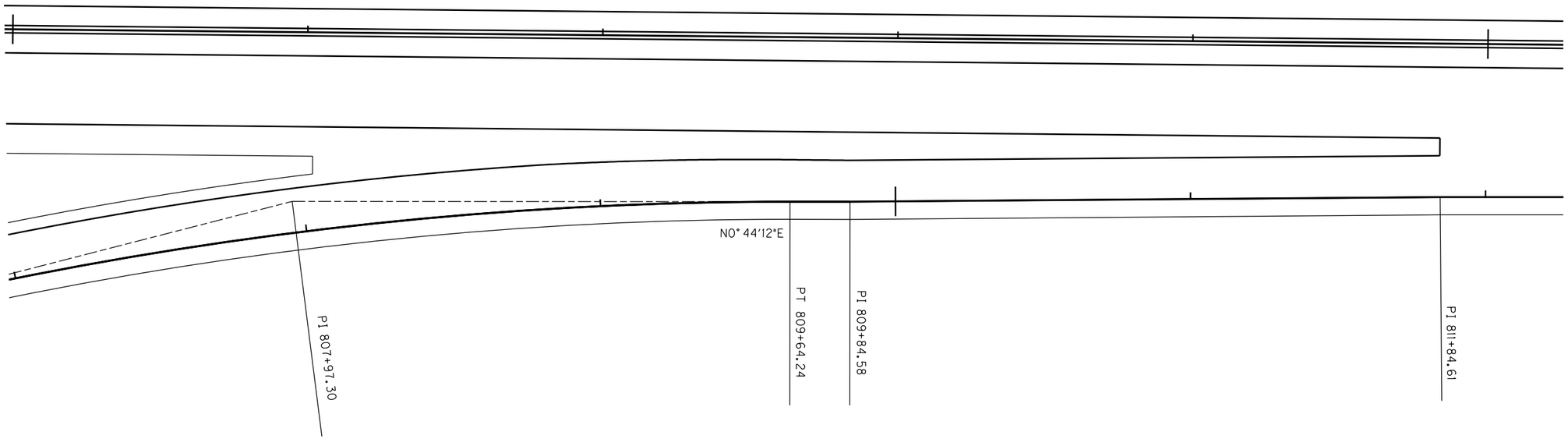
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R46

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\P001-2.DGN

SCALE: 1"= 20

I-69 INTERCHANGE
KY 80 NB OFF RAMP A
PAVEMENT ELEVATION DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R47



SCALE: 1"=20'

SCALE: 1" = HORIZONTAL
1" = VERTICAL

811+50

I-69 INTERCHANGE
KY 80 NB ON RAMP B
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\MLL\WSDOT95615WSDOT_PO3-4.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

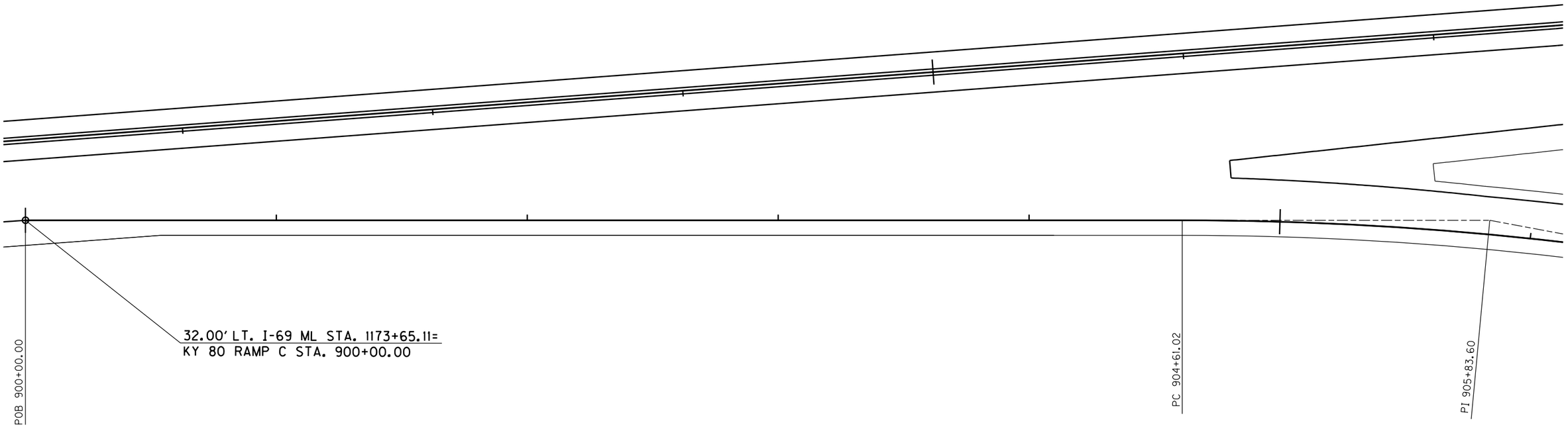
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R48

SCALE: 1"=

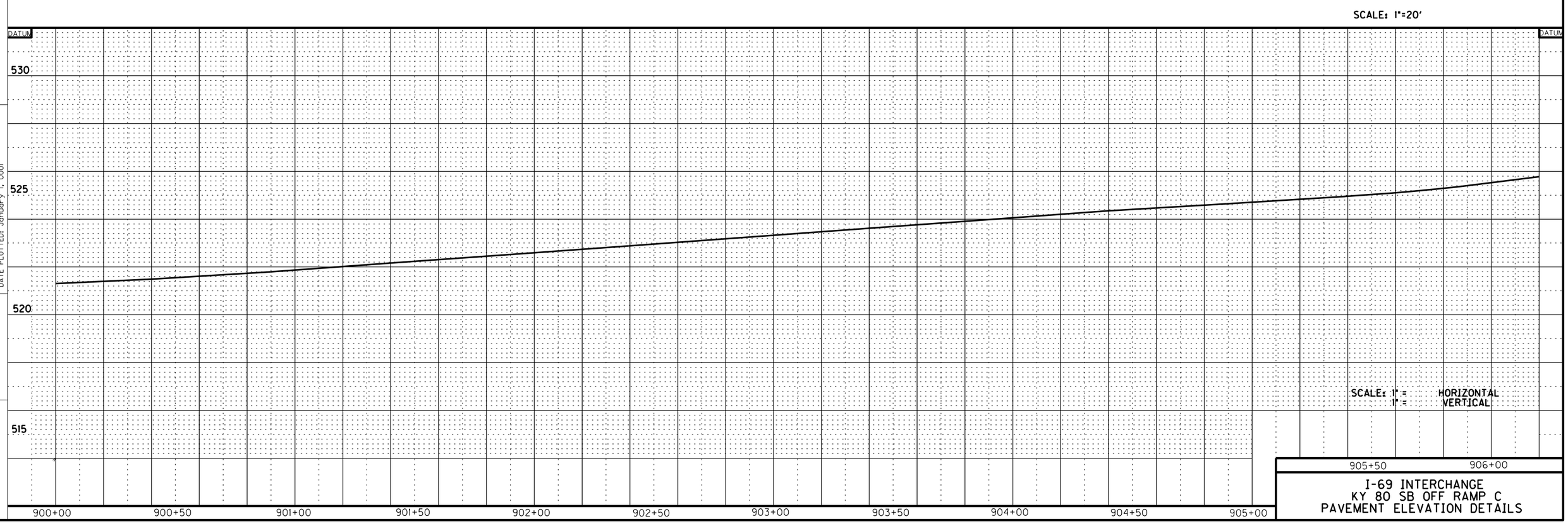
I-69 INTERCHANGE
KY 80 NB ON RAMP B
PAVEMENT ELEVATION DETAILS

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s
DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD03-4.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R49



SCALE: 1"=20'



SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
KY 80 SB OFF RAMP C
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD05-6.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

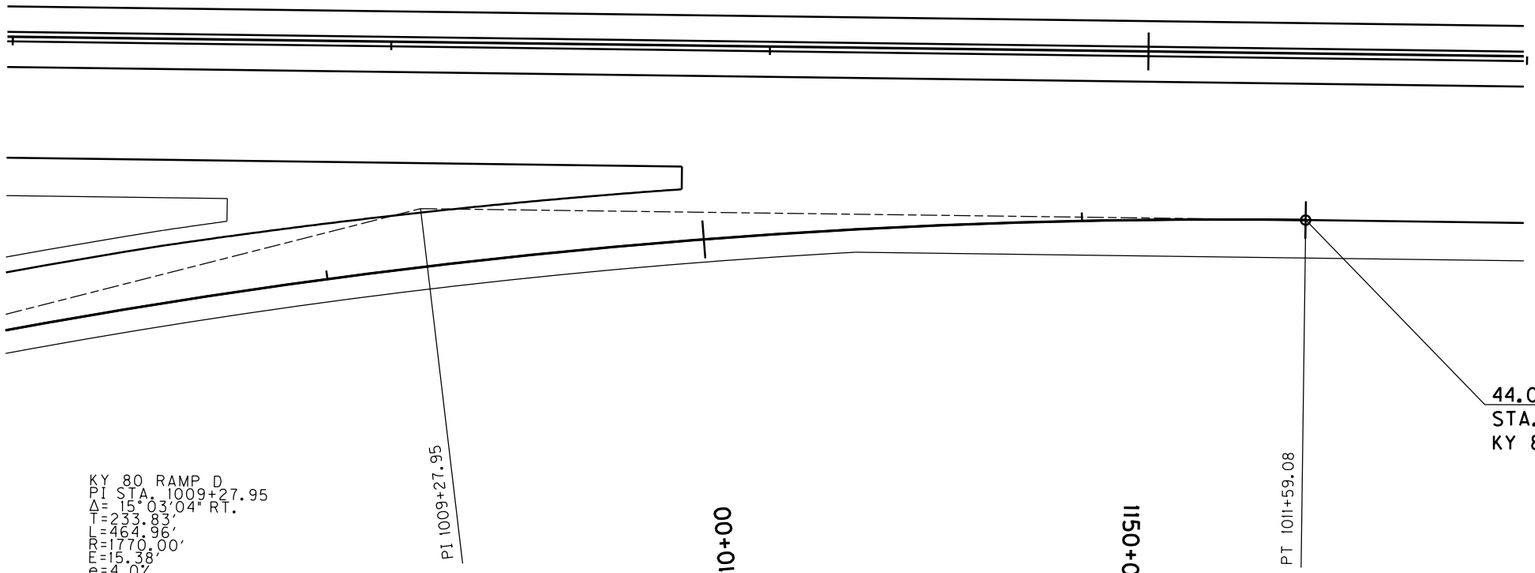
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R50

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD05-6.DGN

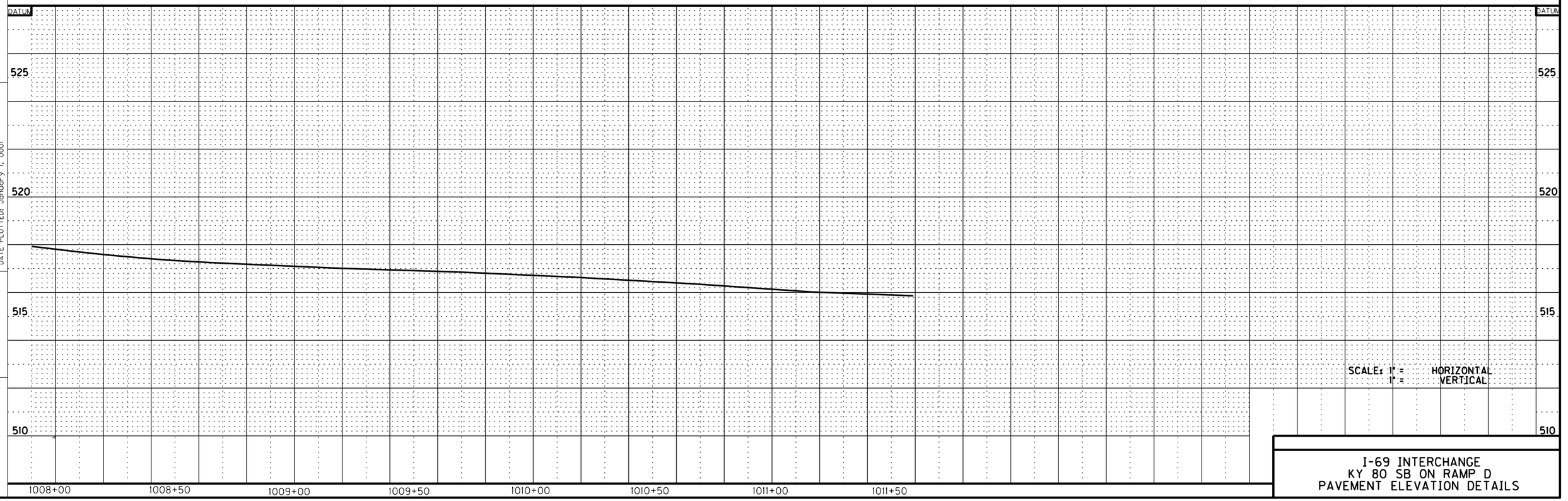
SCALE: 1"=

I-69 INTERCHANGE
KY 80 SB OFF RAMP C
PAVEMENT ELEVATION DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R51



SCALE: 1"=20'



I-69 INTERCHANGE
KY 80 SB ON RAMP D
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD07-8.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

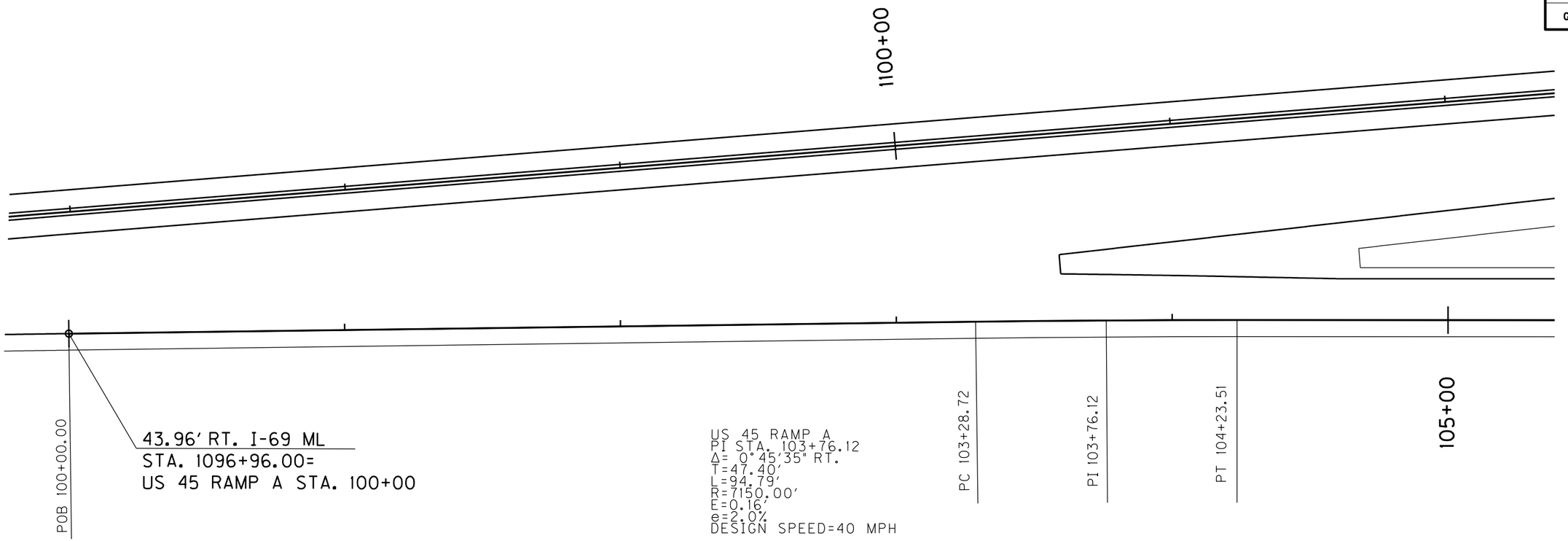
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R52

SCALE: 1"=

I-69 INTERCHANGE
KY 80 SB ON RAMP B
PAVEMENT ELEVATION DETAILS

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s
DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\P007-8.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R53



SCALE: 1"=



I-69 INTERCHANGE
US 45 NB OFF RAMP A I-69
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\P009-10.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R54

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD09-10.DGN

SCALE: 1"=

I-69 INTERCHANGE
US 45 NB OFF RAMP A I-69
PAVEMENT ELEVATION DETAIL

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R55

550
545
540
535
530
525
520
515
510

505+00

120+00

PT 120+38.09

125+00

SCALE: 1"= 20'

DATUM

DATUM

120+00 120+50 121+00 121+50 122+00 122+50 123+00 123+50 124+00 124+50 125+00 125+50

SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
US 45 SB OFF RAMP A I-69
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDII-12.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

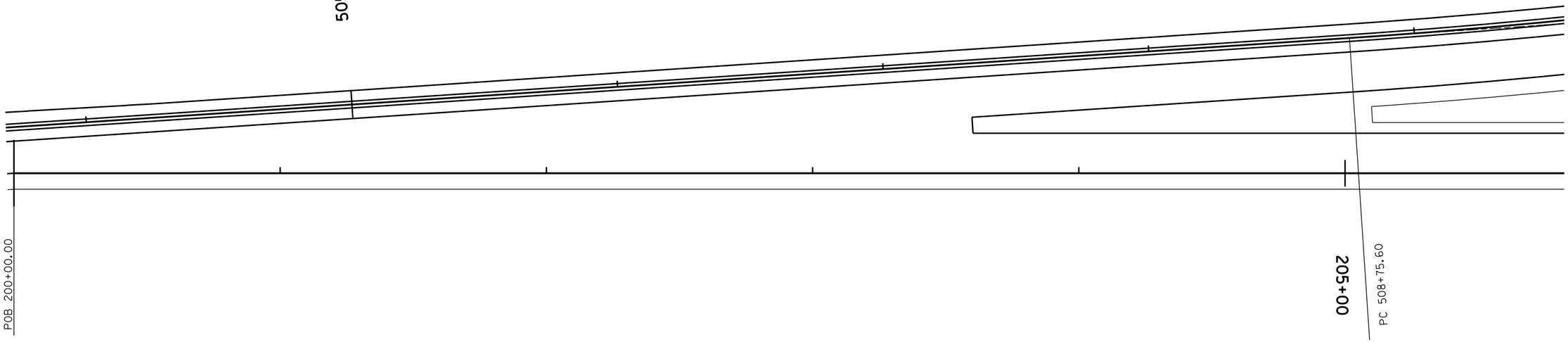
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R56

SCALE: 1"=

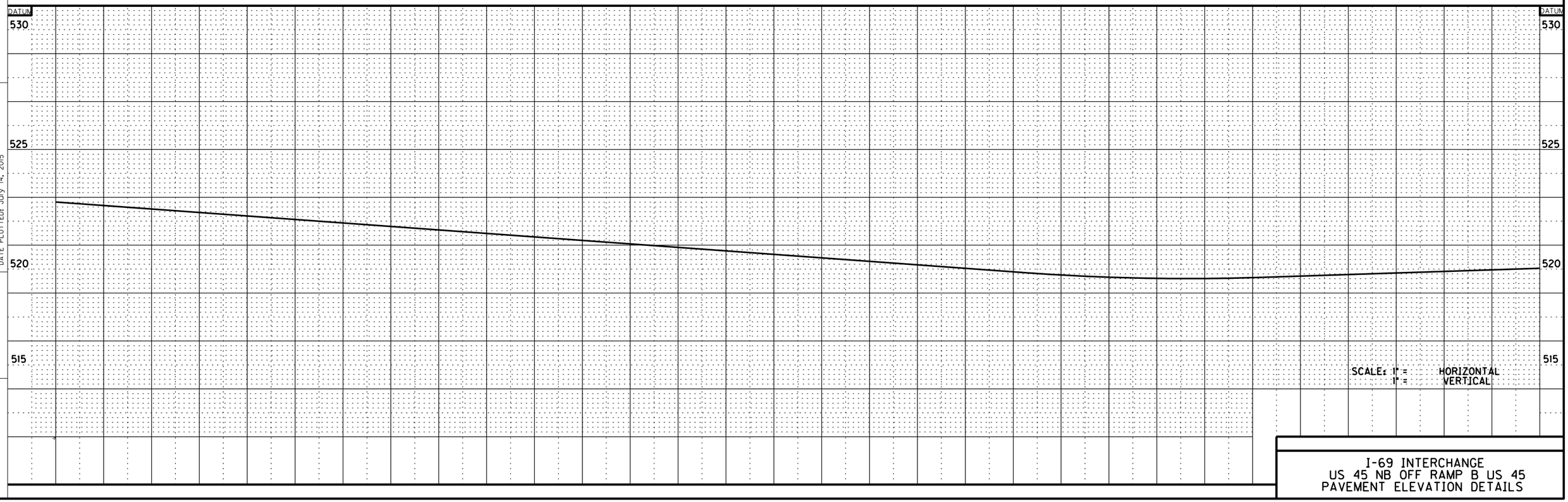
I-69 INTERCHANGE
US 45 NB OFF RAMP A I-69
PAVEMENT ELEVATION DETAIL

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDII-12.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R57



SCALE: 1"=



SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
US 45 NB OFF RAMP B US 45
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDI3-14.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

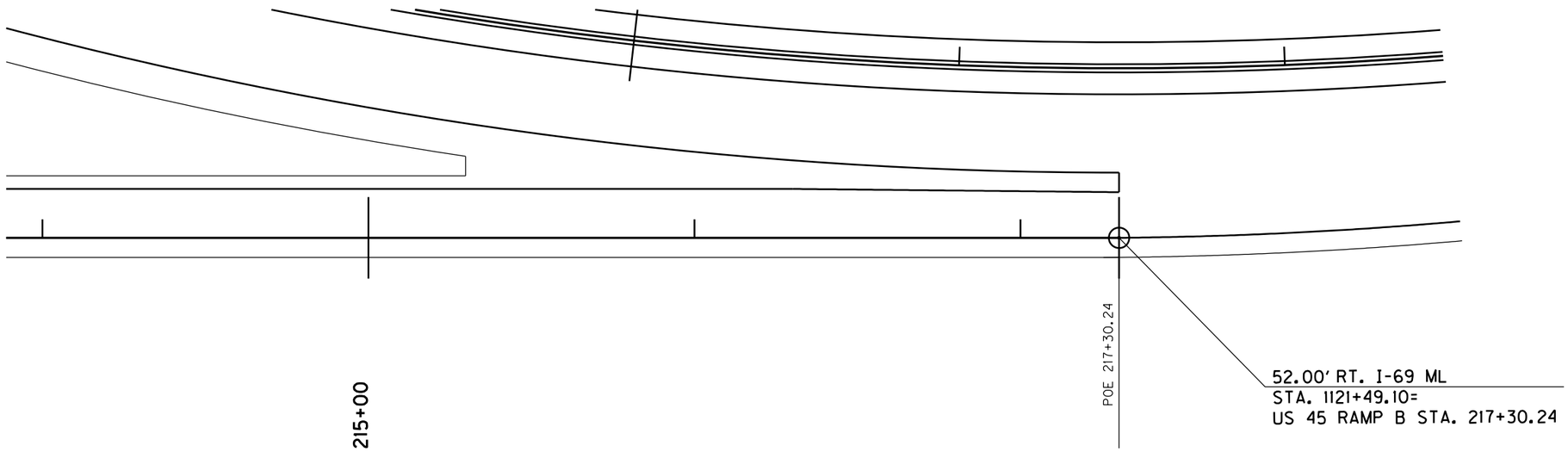
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R58

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDJ3-14.DGN

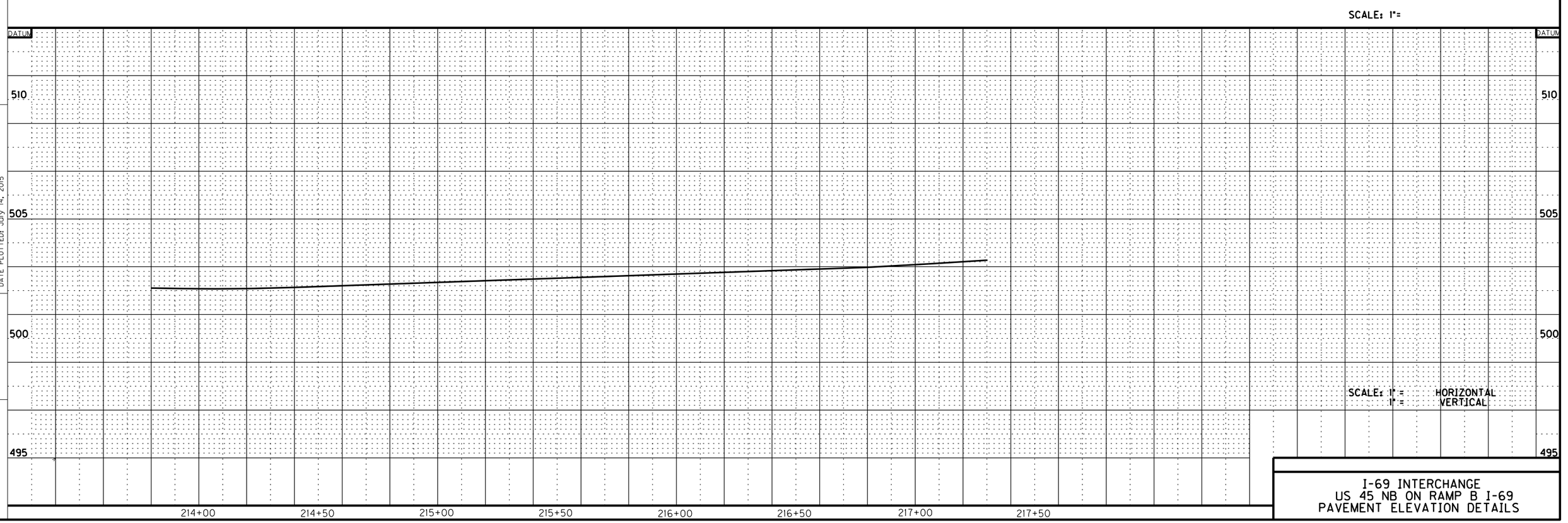
SCALE: 1"=

I-69 INTERCHANGE
US 45 NB OFF RAMP B US 45
PAVEMENT ELEVATION DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R59



SCALE: 1"=



SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
US 45 NB ON RAMP B I-69
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDI5-16.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

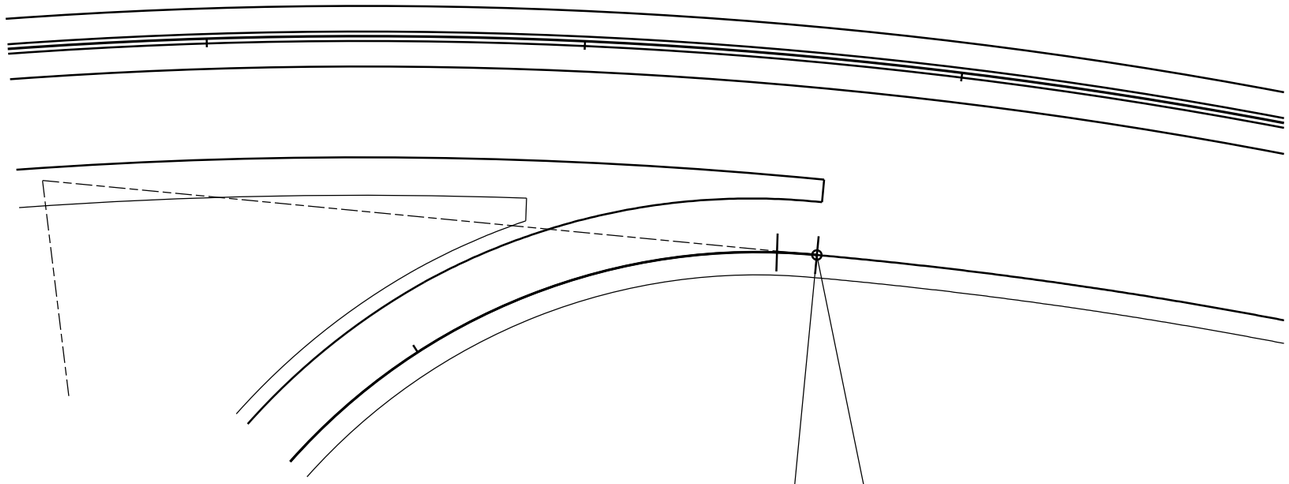
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R60

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: July 14, 2015
FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDI5-16.DGN

SCALE: 1"=

I-69 INTERCHANGE
US 45 NB ON RAMP B I-69
PAVEMENT ELEVATION DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R61



SCALE: 1"= 20'

DATUM

505

500

495

490

307+50 308+00 308+50 309+00 309+50 310+00 310+50

SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
US 45 SB (LOOP) ON RAMP D I-69
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDI7-18.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R62

SCALE: 1"=

I-69 INTERCHANGE
US 45 SB (LOOP) RAMP D I-69
PAVEMENT ELEVATION DETAILS

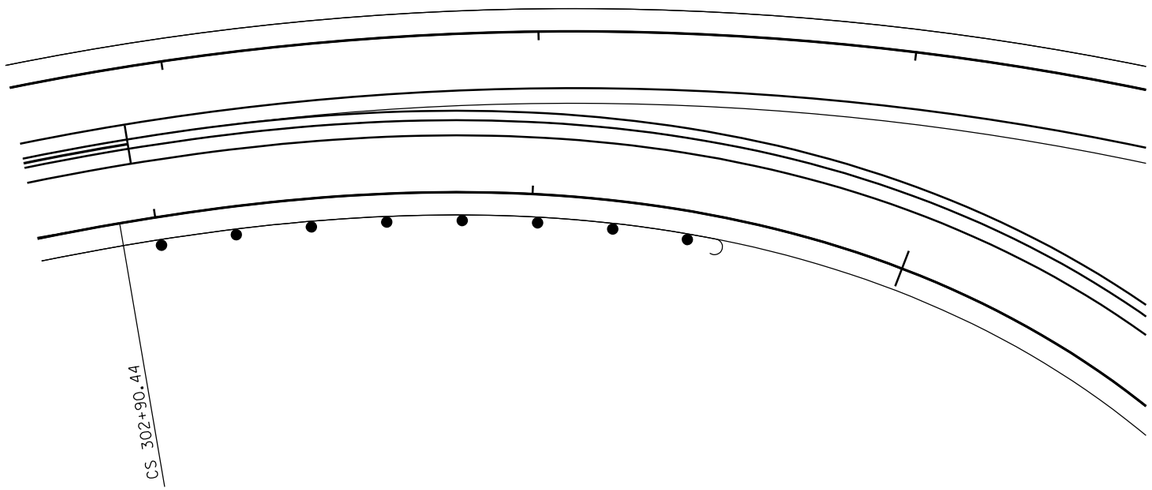
MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD17-18.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.00	R63

PI 520+83.93
PI 414+34.19

US 45 RAMP C
PI STA. 414+34.19
Δ= 47°18'44" LT.
T=328.65'
L=619.52'
R=750.25'
E=68.83'
e=7.0%
DESIGN SPEED=40 MPH

305+00



CS 302+90.44

SCALE: 1"= 20'



SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
LOOP RAMP D AND SB OFF RAMP C
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDI9-20.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

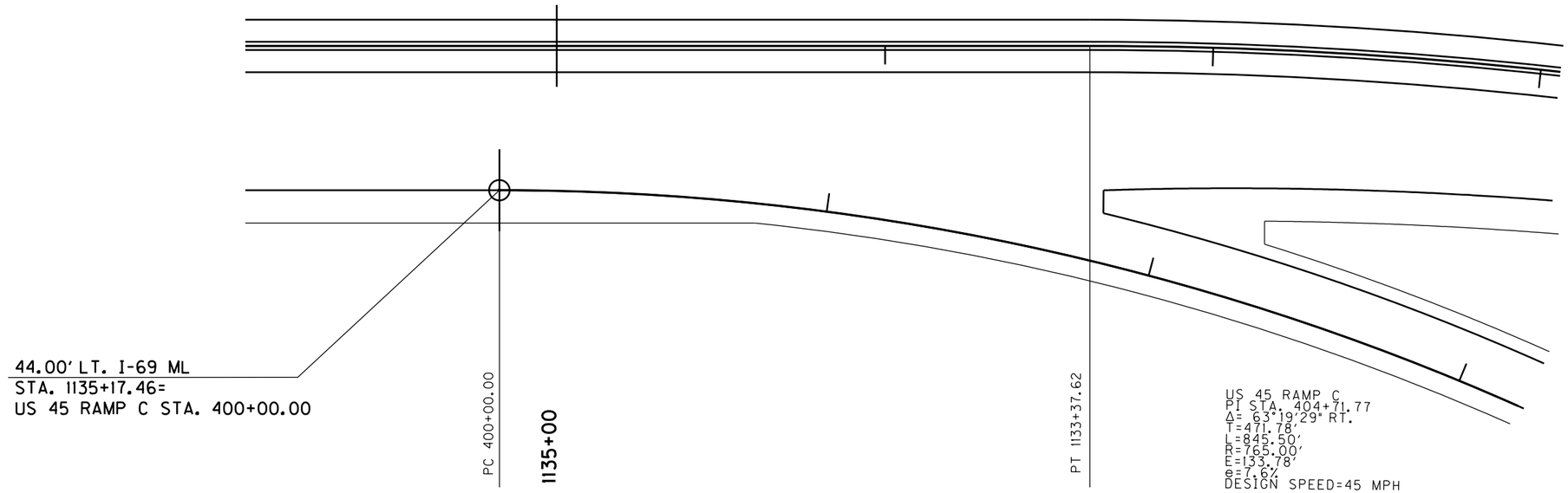
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R64

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PDI9-20.DGN

SCALE: 1"=

I-69 INTERCHANGE
LOOP RAMP D AND SB OFF RAMP C
PAVEMENT ELEVATION DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R65



SCALE: 1"=



SCALE: 1" = HORIZONTAL
1" = VERTICAL

I-69 INTERCHANGE
US 45 SB OFF RAMP C I-69
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD21-22.DGN
USER: ryan-s
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

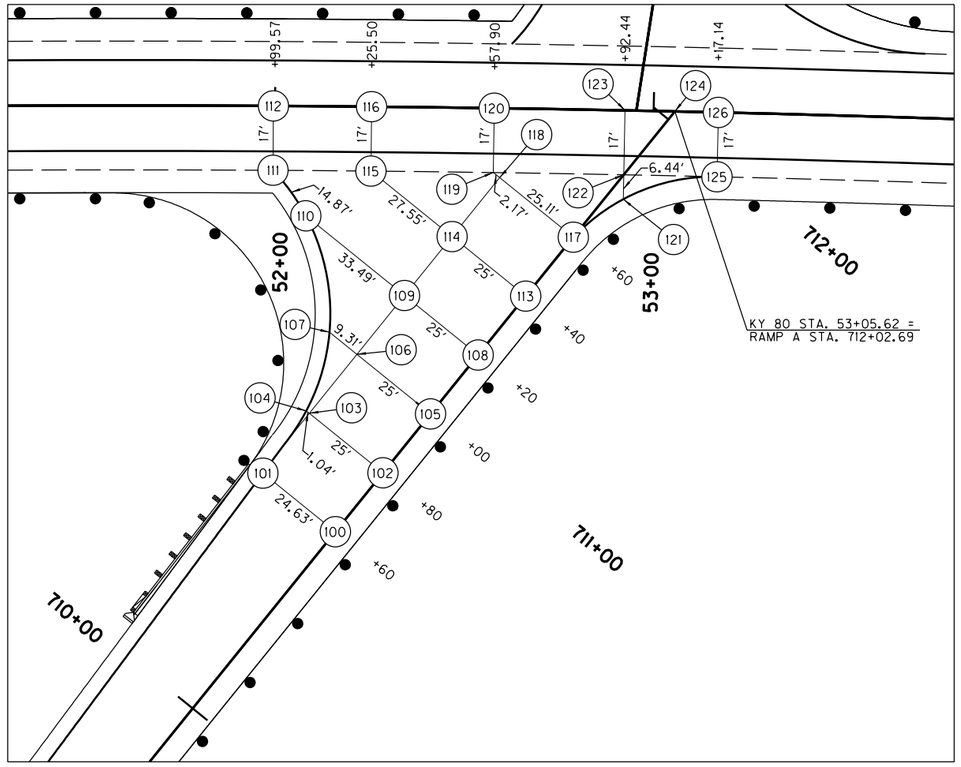
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R66

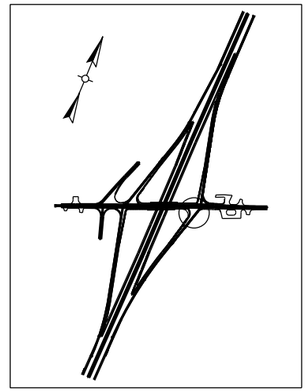
SCALE: 1"=

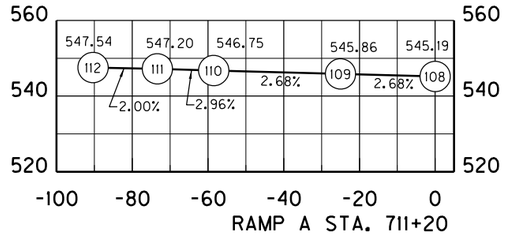
I-69 INTERCHANGE
US 45 SB OFF RAMP C I-69 SB
PAVEMENT ELEVATION DETAILS

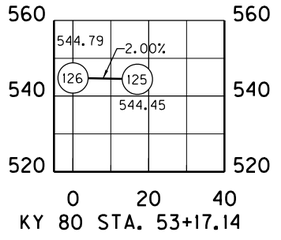
MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s
DATE PLOTTED: July 14, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01395\PD21-22.DGN

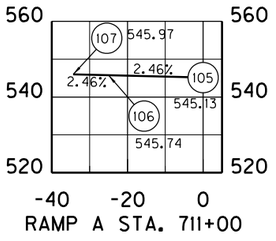
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R67

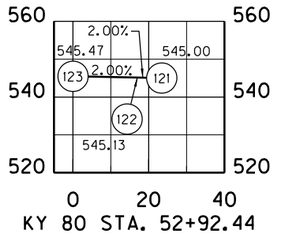


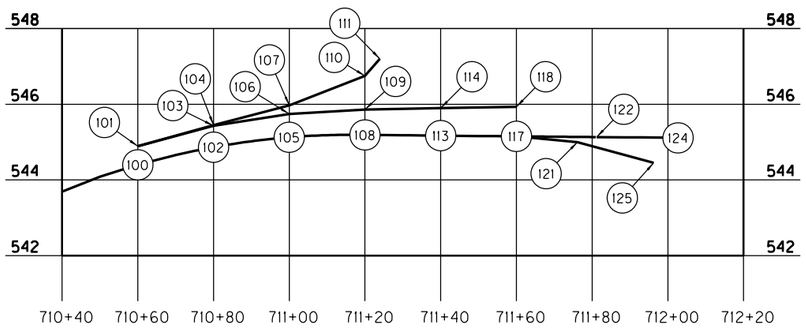


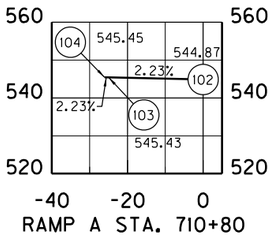


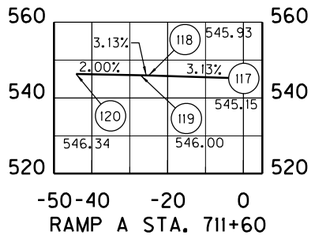


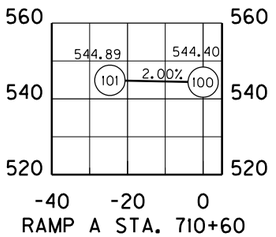


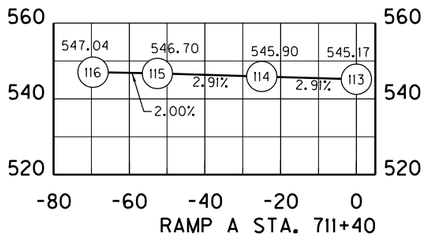










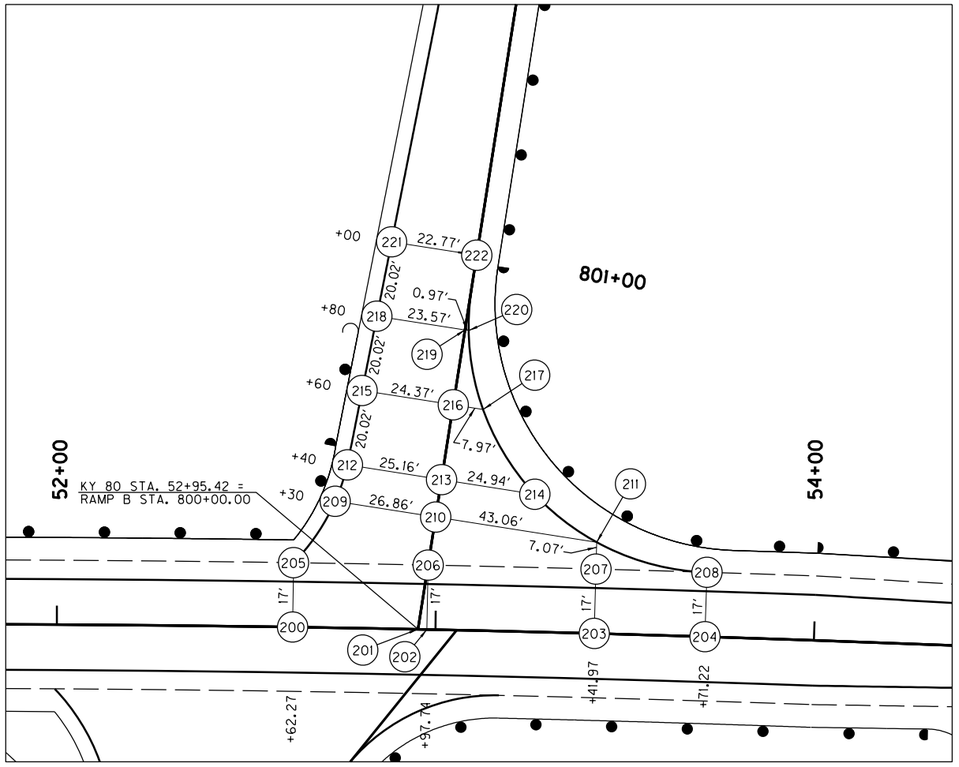


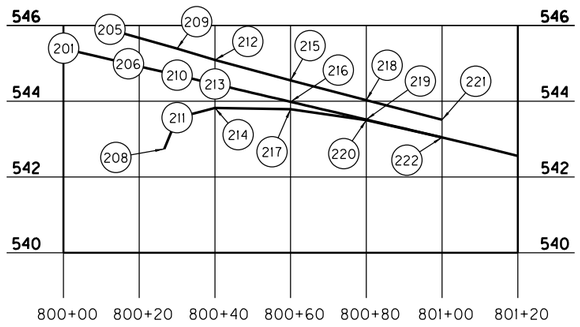
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL (CROSS SECTION)
1" = 2' VERTICAL (PROFILE)

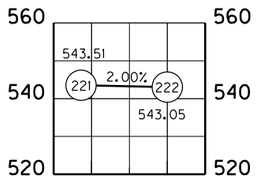
I-69 INTERCHANGE
RAMP A / KY 80
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\PAVEMENT DETAIL_RAMP A.DGN
USER: will
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

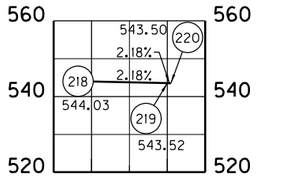
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R68



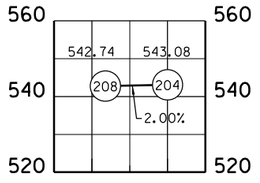




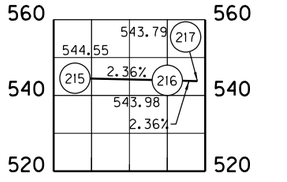
RAMP B STA. 801+00



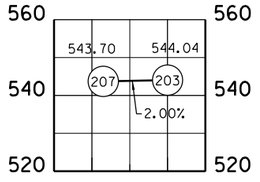
RAMP B STA. 800+80



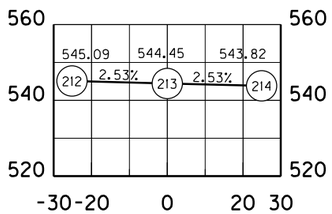
KY 80 STA. 53+71.22



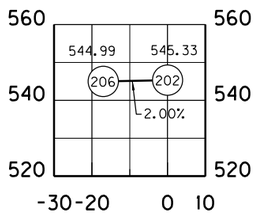
RAMP B STA. 800+60



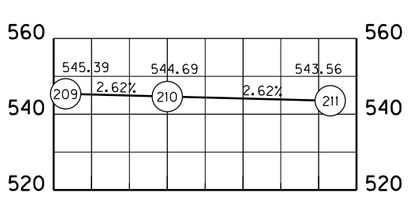
KY 80 STA. 53+41.97



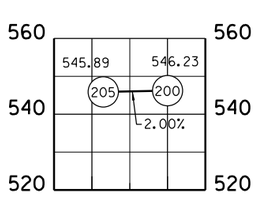
RAMP B STA. 800+40



KY 80 STA. 52+97.74



RAMP B STA. 800+30



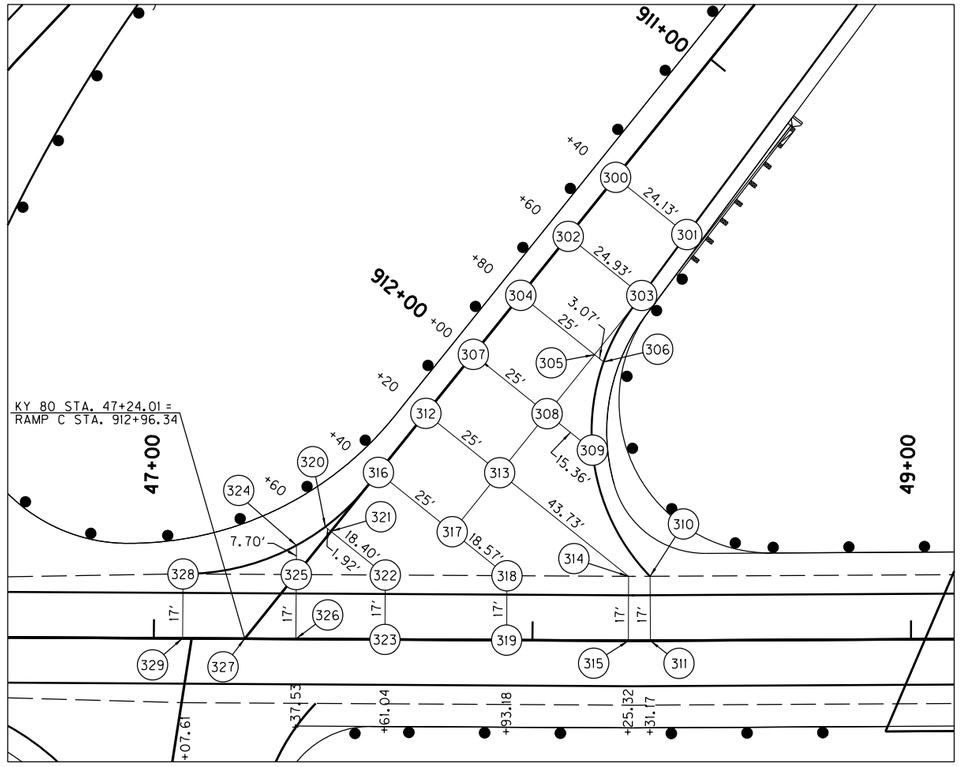
KY 80 STA. 52+62.27

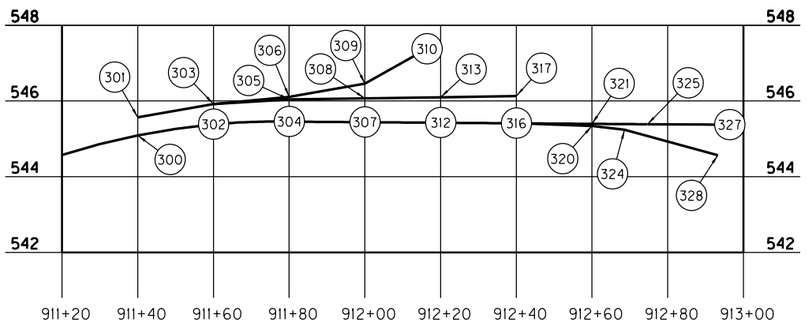
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL (CROSS SECTION)
1" = 2' VERTICAL (PROFILE)

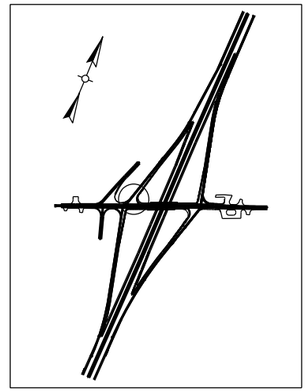
I-69 INTERCHANGE
RAMP B / KY 80
PAVEMENT ELEVATION DETAILS

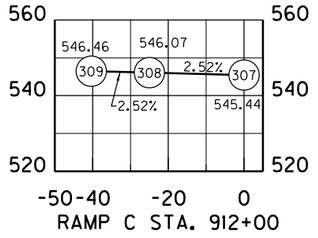
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\PAVEMENT DETAIL_RAMP B.DGN
USER: will
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

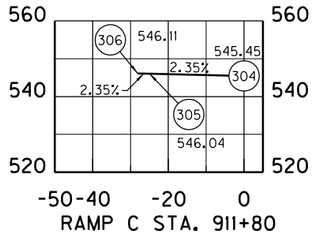
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R69

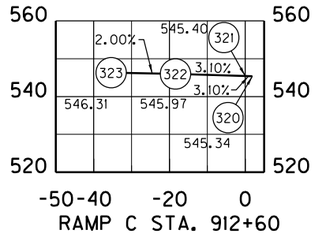


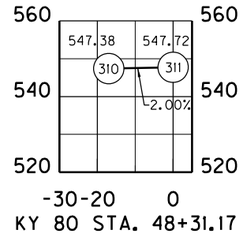


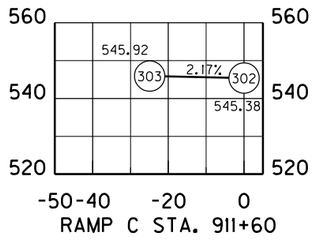


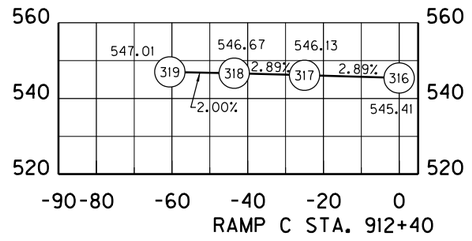


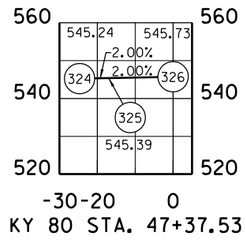


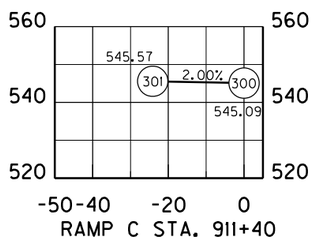


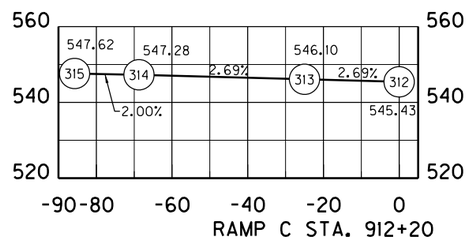


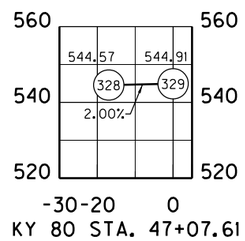










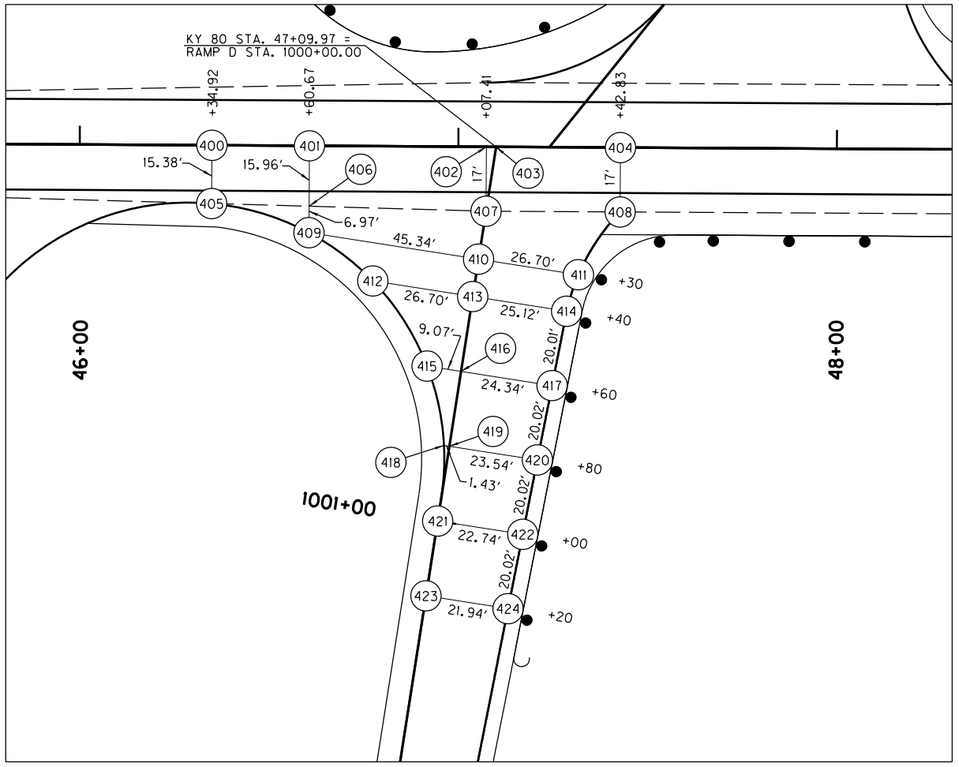


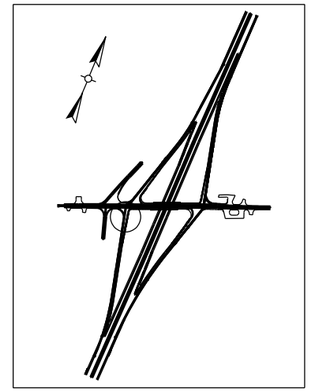
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL (CROSS SECTION)
1" = 2' VERTICAL (PROFILE)

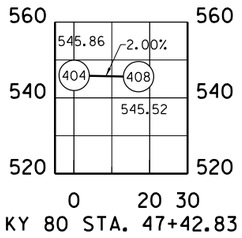
I-69 INTERCHANGE
RAMP C / KY 80
PAVEMENT ELEVATION DETAILS

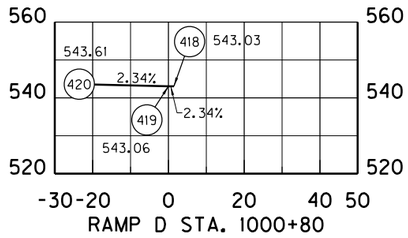
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\PAVEMENT DETAIL_RAMP C.DGN
USER: will
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

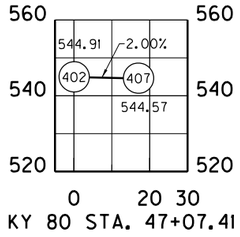
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R70

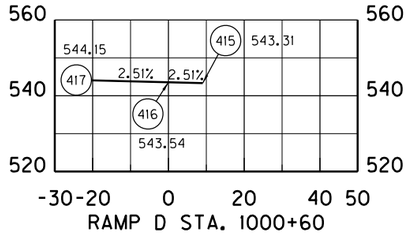


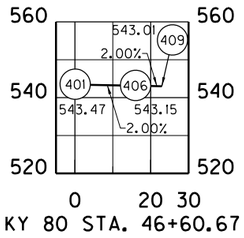


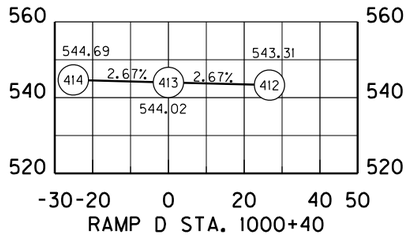


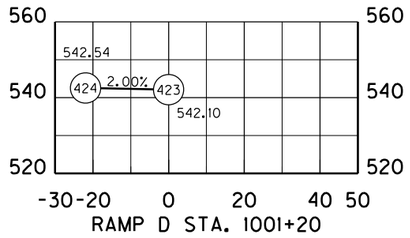


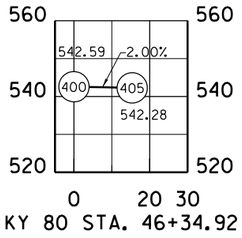


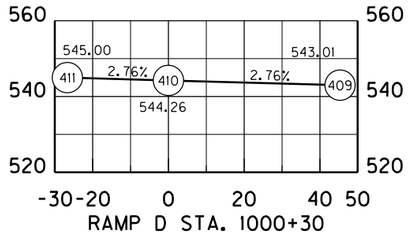


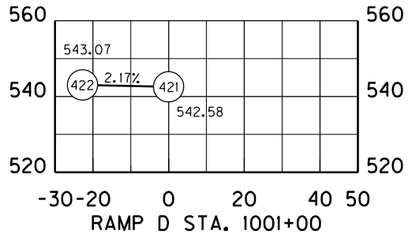


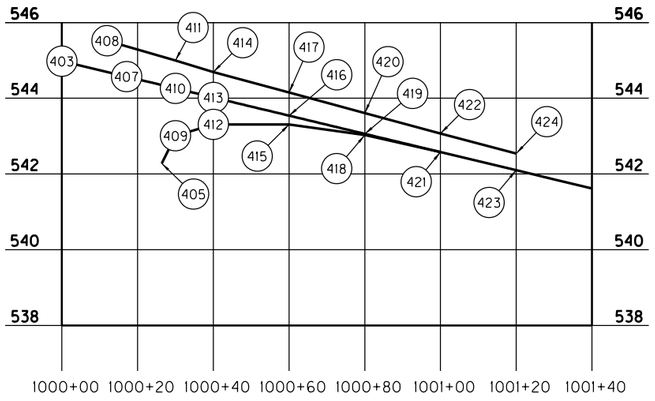










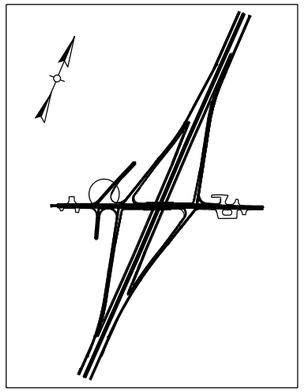


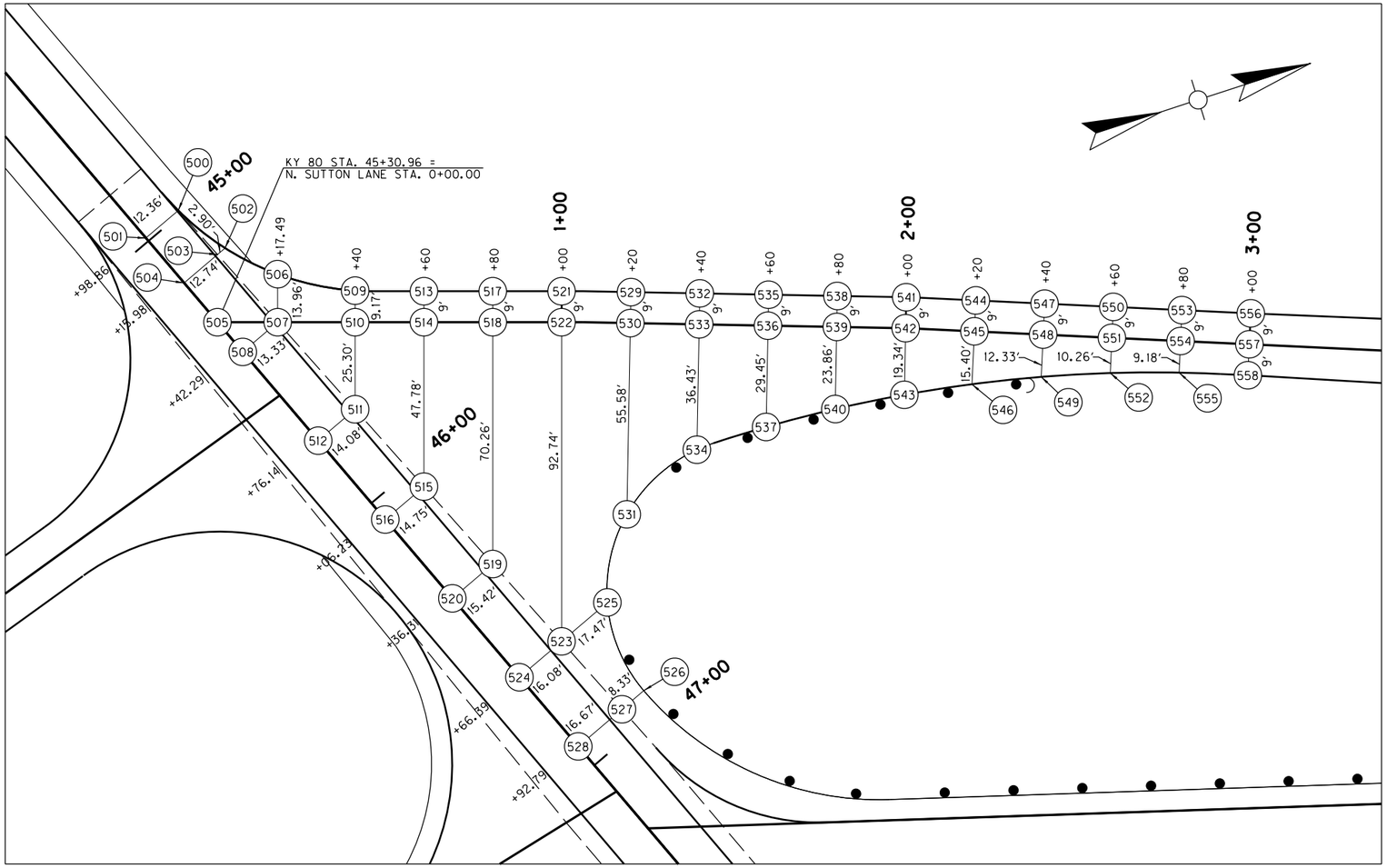
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL (CROSS SECTION)
1" = 2' VERTICAL (PROFILE)

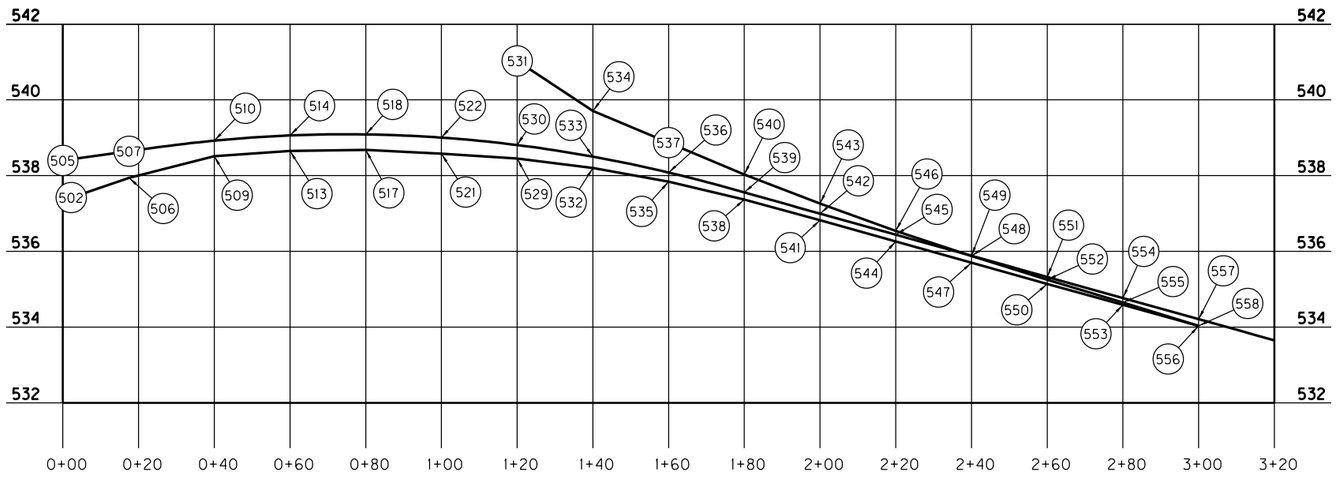
I-69 INTERCHANGE
RAMP D / KY 80
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\PAVEMENT DETAIL_RAMP D.DGN
USER: will
DATE PLOTTED: July 15, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R71





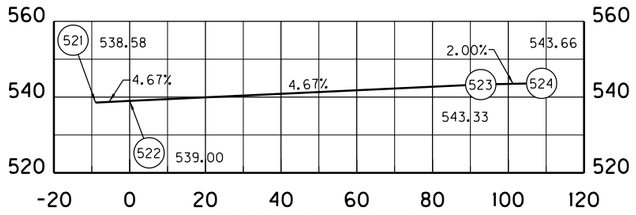


SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

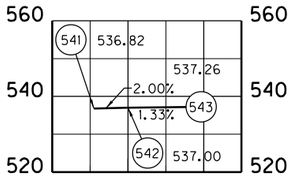
I-69 INTERCHANGE
NORTH SUTTON LANE / KY 80
PAVEMENT ELEVATION DETAILS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\PAVEMENT DETAIL_SUTTON LANE NORTH.DGN
USER: will
DATE PLOTTED: July 15, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

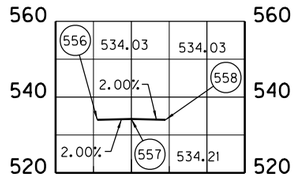
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R72



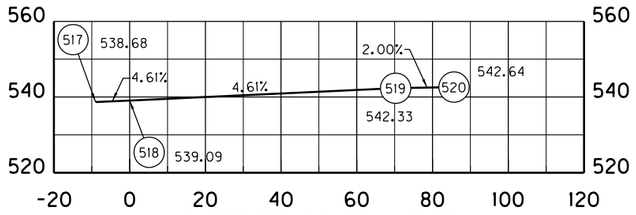
N. SUTTON LN. STA. 1+00



N. SUTTON LN. STA. 2+00



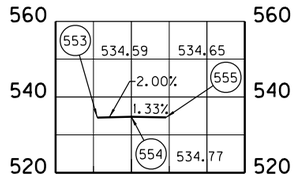
N. SUTTON LN. STA. 3+00



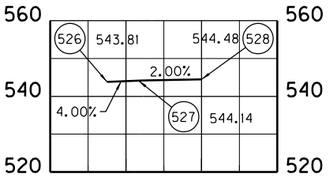
N. SUTTON LN. STA. 0+80



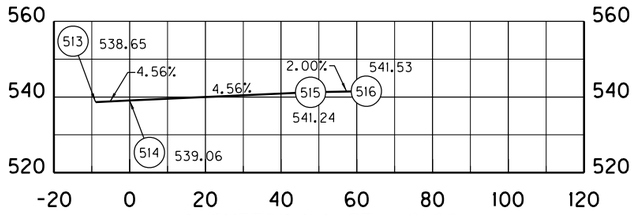
N. SUTTON LN. STA. 1+80



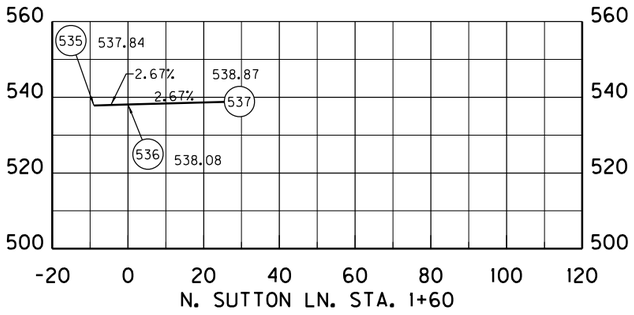
N. SUTTON LN. STA. 2+80



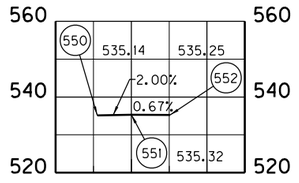
KY 80 STA. 46+92.79



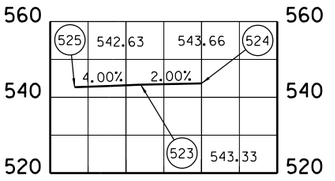
N. SUTTON LN. STA. 0+60



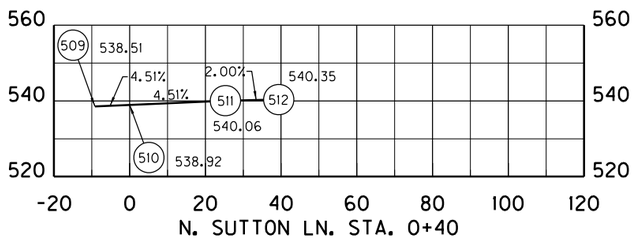
N. SUTTON LN. STA. 1+60



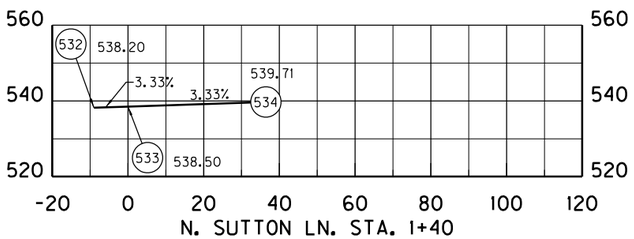
N. SUTTON LN. STA. 2+60



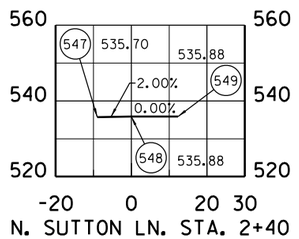
KY 80 STA. 46+66.39



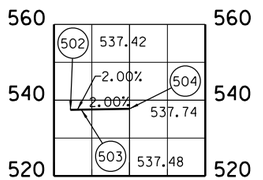
N. SUTTON LN. STA. 0+40



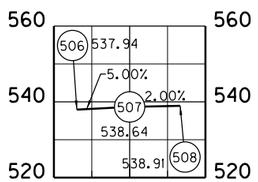
N. SUTTON LN. STA. 1+40



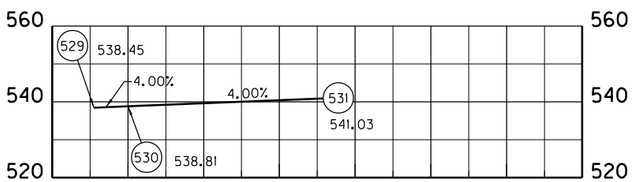
N. SUTTON LN. STA. 2+40



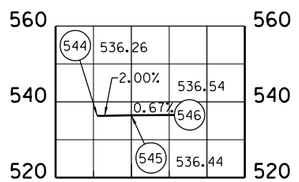
KY 80 STA. 45+15.98



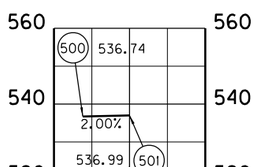
N. SUTTON LN. STA. 0+17.49



N. SUTTON LN. STA. 1+20



N. SUTTON LN. STA. 2+20



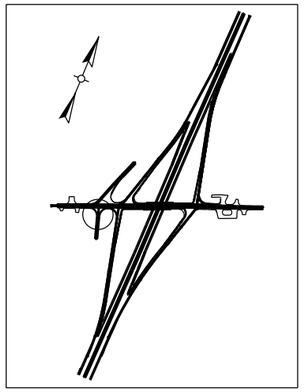
KY 80 STA. 44+98.86

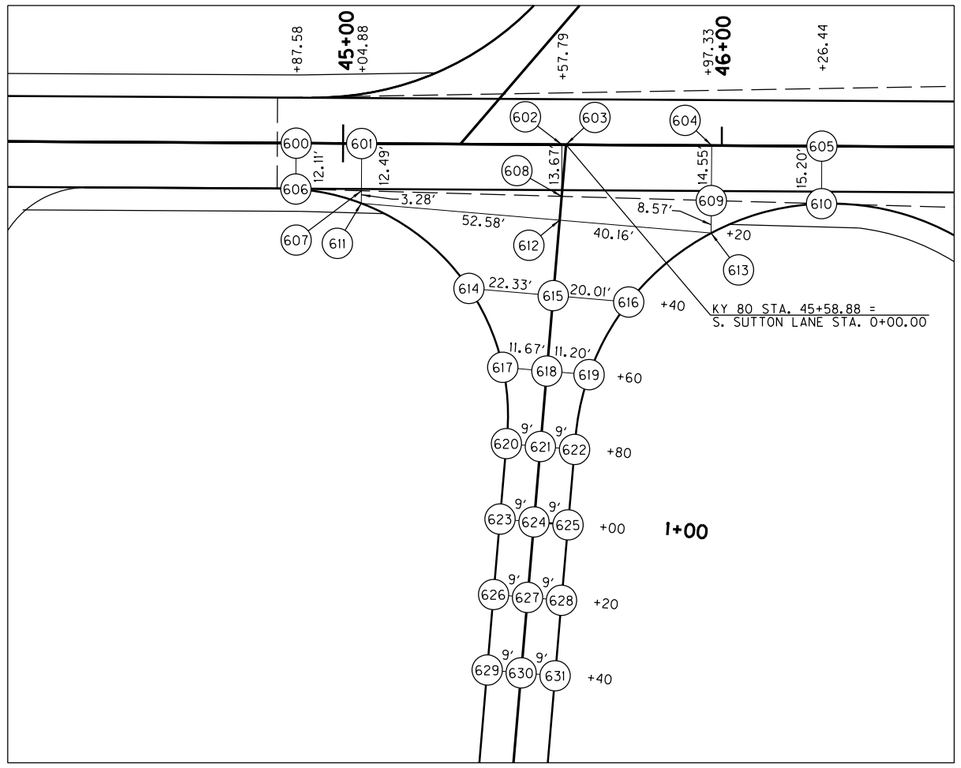
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

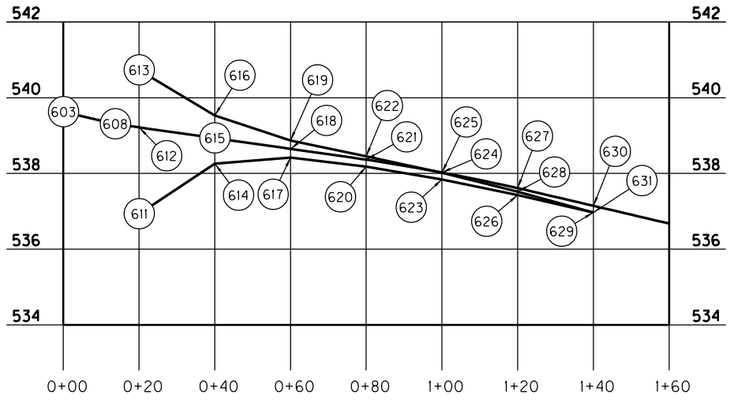
I-69 INTERCHANGE
NORTH SUTTON LANE / KY 80
PAVEMENT ELEVATION DETAILS

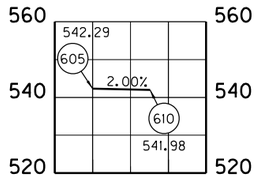
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0395\PAVEMENT DETAIL_SUTTON LANE NORTH.DGN
USER: will
DATE PLOTTED: July 15, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R73

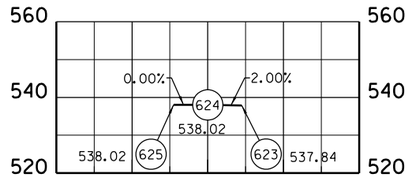




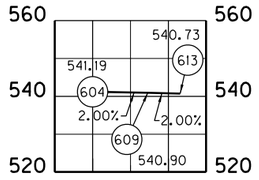




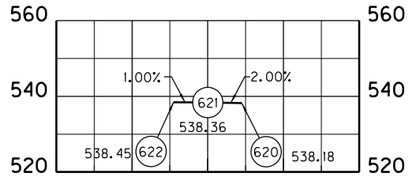
KY 80 STA. 46+26.44



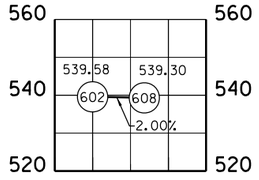
S. SUTTON LN. STA. I+00



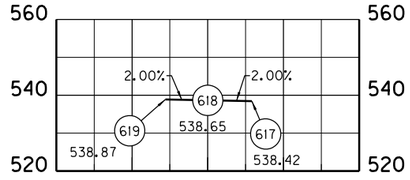
KY 80 STA. 45+97.33



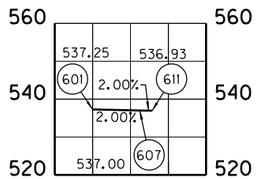
S. SUTTON LN. STA. 0+80



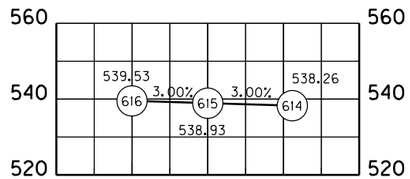
KY 80 STA. 45+57.79



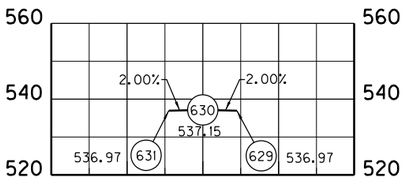
S. SUTTON LN. STA. 0+60



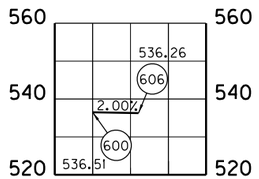
KY 80 STA. 45+04.88



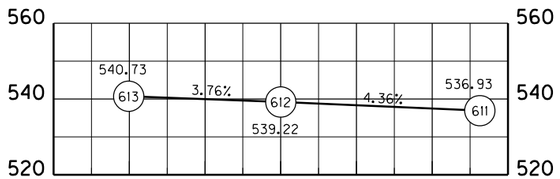
S. SUTTON LN. STA. 0+40



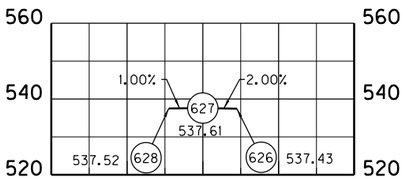
S. SUTTON LN. STA. I+40



KY 80 STA. 44+87.58



S. SUTTON LN. STA. 0+20



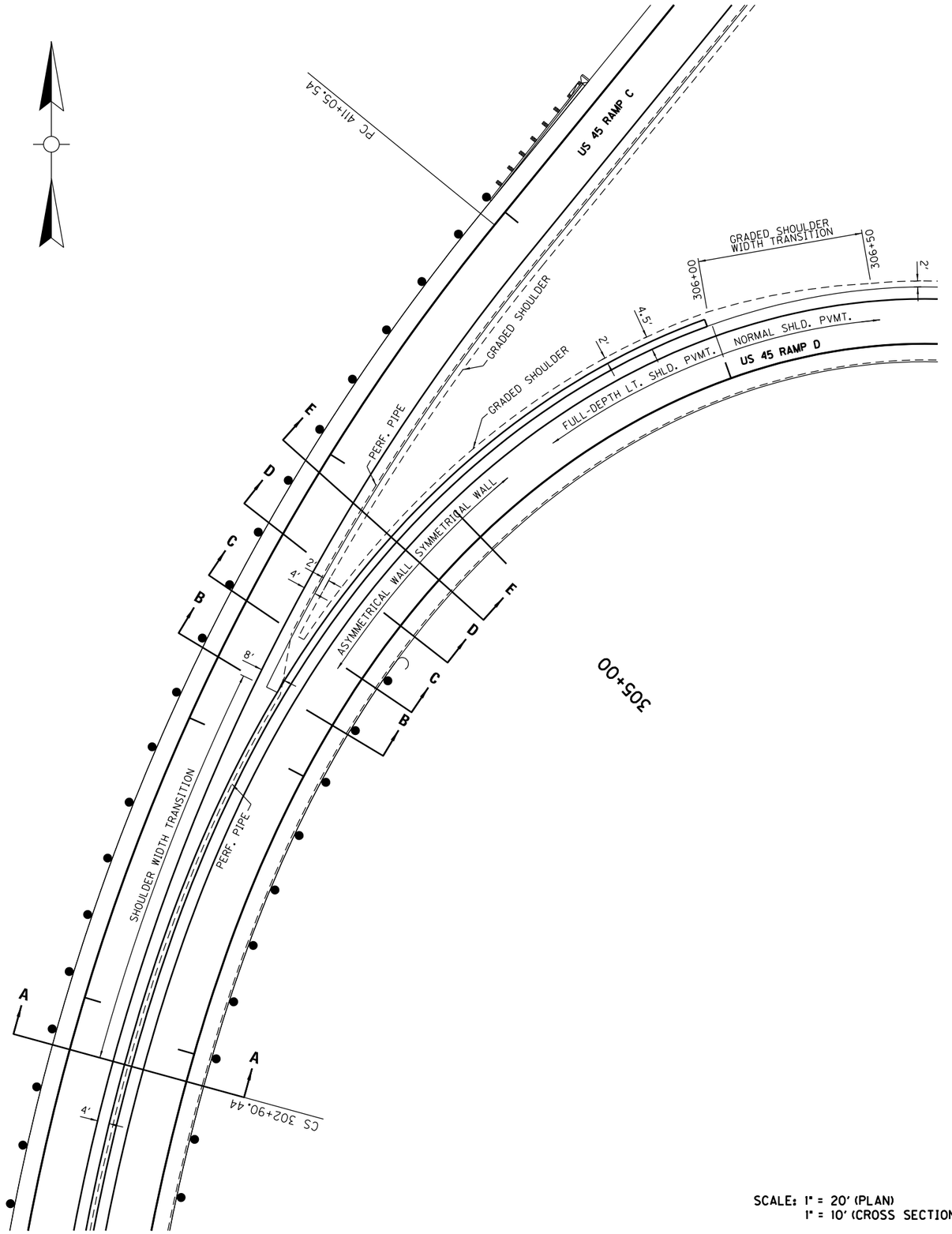
S. SUTTON LN. STA. I+20

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL (CROSS SECTION)
1" = 2' VERTICAL (PROFILE)

I-69 INTERCHANGE
SOUTH SUTTON LANE / KY 80
PAVEMENT ELEVATION DETAILS

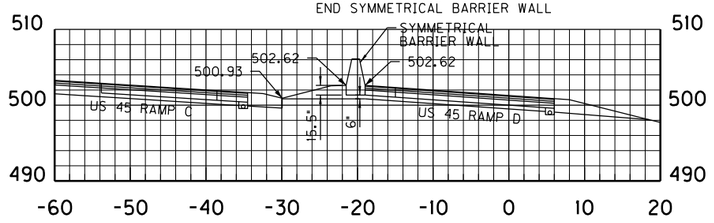
FILE NAME: C:\PW_WORKDIR\RYAN-SVDMS0I395\PAVEMENT DETAIL_SUTTON LANE SOUTH.DGN
USER: will
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R74



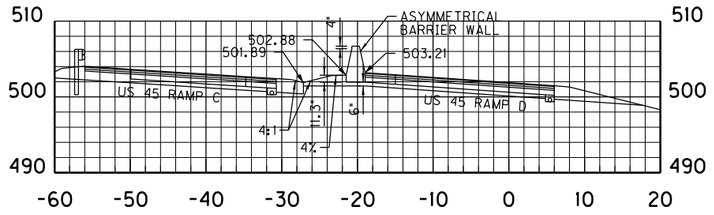
SCALE: 1" = 20' (PLAN)
1" = 10' (CROSS SECTION)

RAMP D STA. 306+00 ~
END SYMMETRICAL BARRIER WALL

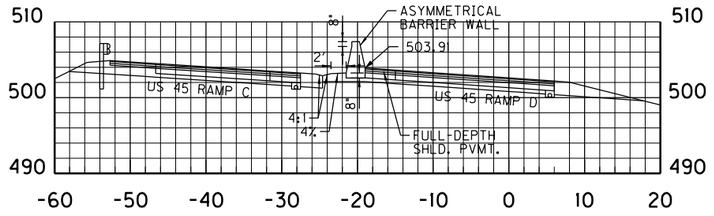


SECTION E-E
US 45 RAMP D STA. 304+80

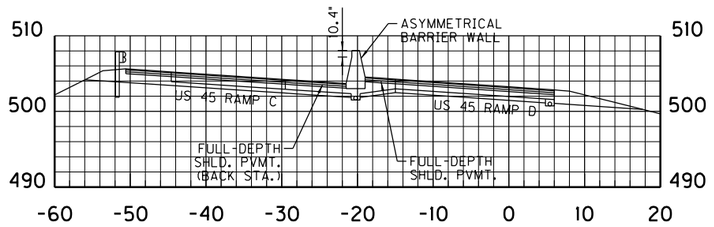
RAMP D STA. 304+80 ~
END ASYMMETRICAL BARRIER WALL
BEGIN SYMMETRICAL BARRIER WALL



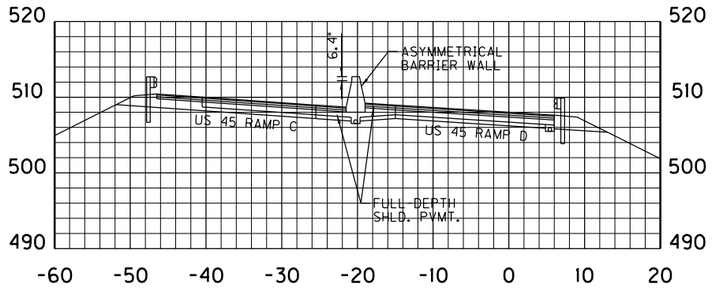
SECTION D-D
US 45 RAMP D STA. 304+60.00



SECTION C-C
US 45 RAMP D STA. 304+38.04



SECTION B-B
US 45 RAMP D STA. 304+19.58



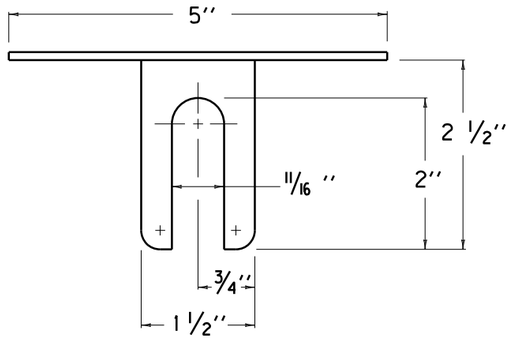
SECTION A-A
US 45 RAMP D STA. 302+90.44

I-69 INTERCHANGE
US 45 RAMP C & D
BARRIER WALL DETAILS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0139S\US45 RAMP C-D DETAIL.DGN
USER: will
DATE PLOTTED: July 14, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R75

NOTES

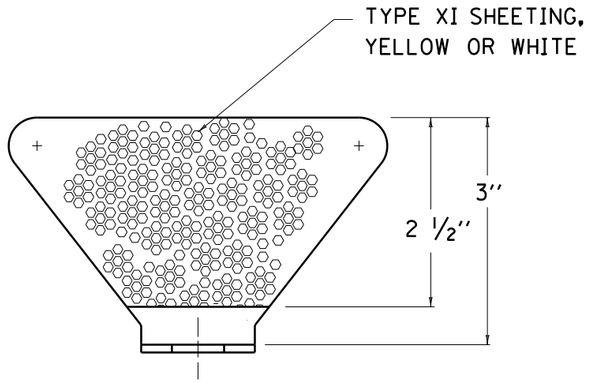


PLAN VIEW

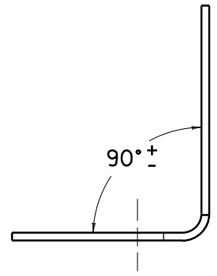
1. THE DELINEATOR'S SHAPE AND DIMENSIONS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. TYPES OF DELINEATORS PERMITTED SHALL BE FROM THE LIST OF APPROVED MATERIALS.
2. DELINEATOR SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR ONE COMPLETE INSTALLATION.
3.

CODE	PAY ITEM	PAY UNIT
1982	DELINEATOR FOR GUARDRAIL - MONO DIRECTIONAL WHITE	EACH
1983	DELINEATOR FOR GUARDRAIL - MONO DIRECTIONAL YELLOW	EACH
1987	DELINEATOR FOR GUARDRAIL - BI-DIRECTIONAL WHITE	EACH

4. GUARDRAIL DELINEATORS SHALL BE REQUIRED ON ALL GUARDRAIL.
5. DELINEATORS SHALL BE MANUFACTURED FROM 12 GA. GALVANIZED STEEL.
6. DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MANUFACTURER'S TOLERANCES.
7. WHEN CONCRETE BARRIERS EXTEND ACROSS BRIDGE STRUCTURES IN LIEU OF STEEL BEAM GUARDRAIL, DELINEATORS SHALL BE INSTALLED AT SAME VERTICAL ALIGNMENT AS ON THE GUARDRAIL, AND DELINEATORS SHALL COMPLY WITH CURRENT SEPIA DRAWING 004.
8. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

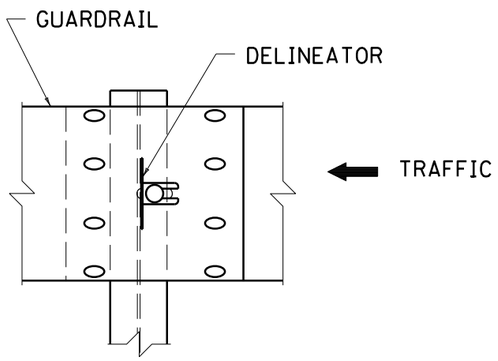


FRONT VIEW

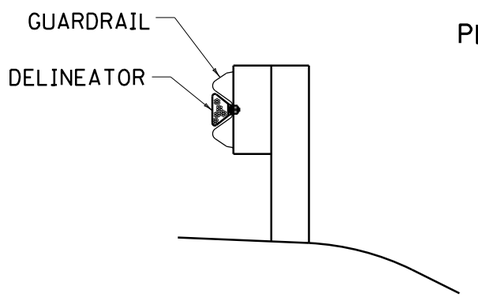


SIDE VIEW

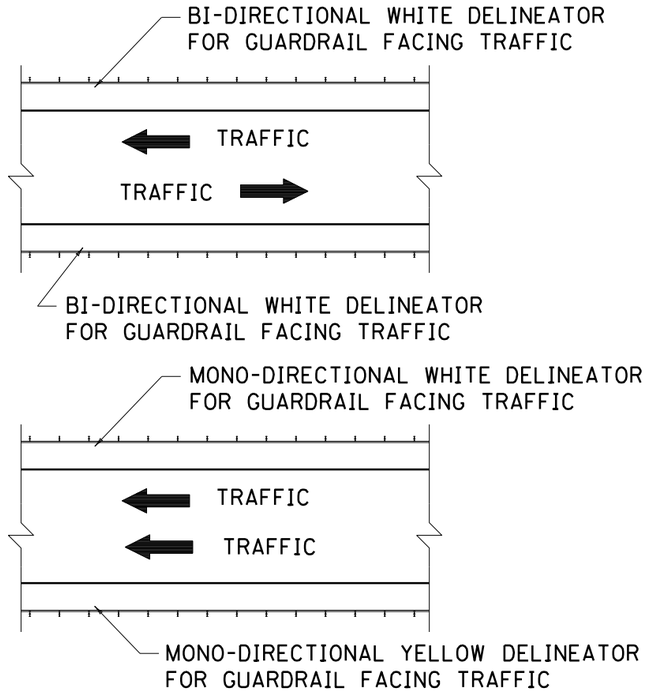
NOTE: DIMENSIONS SHOWN ARE FOR ONE VERSION OF A WEB-MOUNTED GUARDRAIL DELINEATOR. DELINEATORS WITH ALTERNATE DIMENSIONS MAY BE CONSIDERED FOR INCLUSION ON THE APPROVED PRODUCTS LIST.



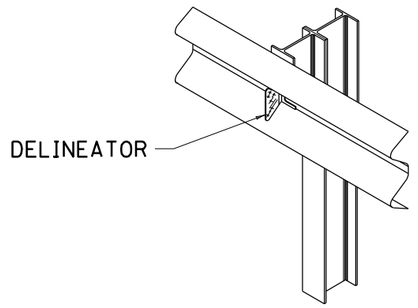
FRONT VIEW



SIDE VIEW



PLACEMENT OF DELINEATORS FOR GUARDRAIL



ISOMETRIC VIEW

APPROXIMATE DELINEATOR SPACING	
TANGENT	100'
CURVE	50'

SPACING SHOULD BE ADJUSTED IN CURVES SO THAT SEVERAL DELINEATORS ARE ALWAYS SIMULTANEOUSLY VISIBLE TO THE ROAD USER.

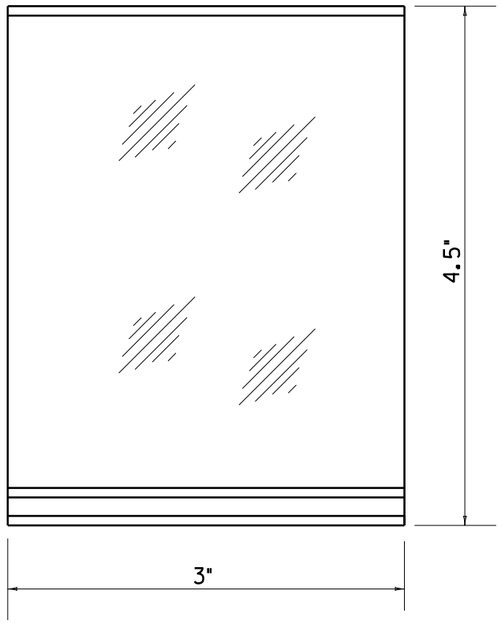
KENTUCKY DEPARTMENT OF HIGHWAYS

DELINEATORS FOR GUARDRAIL

SUBMITTED J. Wagner 6-15-2012
DIRECTOR DIVISION OF DESIGN — DATE

002

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R76



FRONT ELEVATION

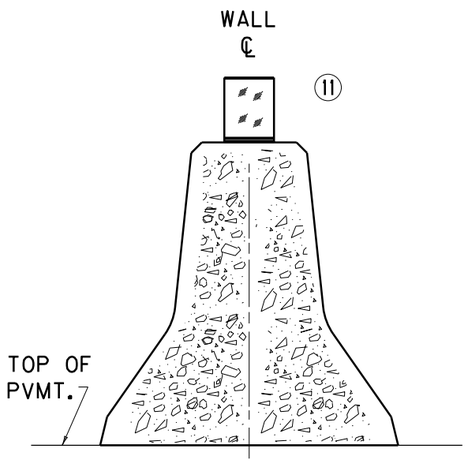
SIDE ELEVATION

NOTES

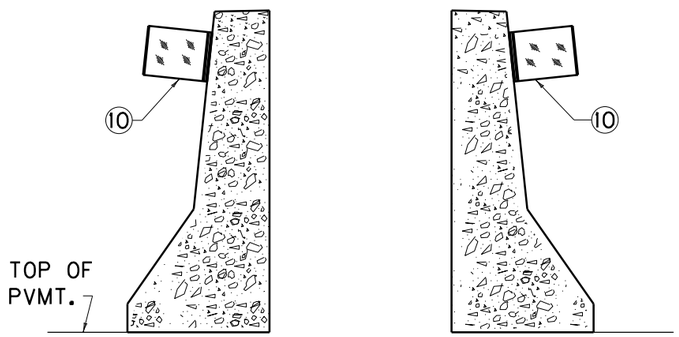
1. BARRIER WALL DELINEATORS SHALL BE REQUIRED ON ALL BARRIER WALL.
2. DELINEATORS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR ONE COMPLETE INSTALLATION.
3.

CODE	PAY ITEM	PAY UNIT
1984	DELINEATOR FOR BARRIER WALL - MONO DIRECTIONAL WHITE	EACH
1985	DELINEATOR FOR BARRIER WALL - MONO DIRECTIONAL YELLOW	EACH
1986	DELINEATOR FOR BARRIER WALL - BI-DIRECTIONAL YELLOW	EACH
1990	DELINEATOR FOR BARRIER WALL - BI-DIRECTIONAL WHITE	EACH

4. IN ACCORDANCE WITH THE MUTCD (CURRENT EDITION), THE COLOR OF DELINEATORS SHALL MATCH THE COLOR OF THE EDGE LINE THAT THEY SUPPLEMENT. IN GENERAL, DELINEATORS ON BARRIER WALL ALONG THE LEFT SIDE OF DRIVING LANES SHALL BE YELLOW, AND DELINEATORS ON BARRIER WALL ALONG THE RIGHT SIDE OF DRIVING LANES SHALL BE WHITE. DELINEATORS IN BOTH DIRECTIONS ON A TWO-LANE, TWO-WAY ROADWAY SHALL BE BI-DIRECTIONAL WHITE.
5. TYPES OF DELINEATORS PERMITTED SHALL BE FROM THE LIST OF APPROVED MATERIALS. THE DELINEATOR'S SHAPE AND DIMENSIONS ARE FOR ILLUSTRATION PURPOSES ONLY.
6. THE DELINEATOR UNIT SHALL HAVE THE REFLECTIVE SURFACE INSTALLED FACING TRAFFIC.
7. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMENDATION.
8. DELINEATORS SHALL BE ATTACHED TO CONCRETE MEDIAN BARRIER WITH AN APPROVED ADHESIVE.
9. DELINEATOR SHEETING SHALL BE TYPE XI, YELLOW OR WHITE.
10. DELINEATORS SHOULD BE MOUNTED AT A HEIGHT OF APPROXIMATELY 4' ABOVE PAVEMENT. WHEN CONCRETE BARRIERS EXTEND ACROSS BRIDGE STRUCTURES IN LIEU OF STEEL BEAM GUARDRAIL, DELINEATORS SHALL BE INSTALLED AT THE SAME VERTICAL ALIGNMENT AS ON THE GUARDRAIL.
11. FOR BARRIER WALLS 50" OR LESS IN HEIGHT, DELINEATORS MAY BE INSTALLED ON TOP OF THE BARRIER WALL. FOR MEDIAN BARRIER WALLS 50" OR LESS IN HEIGHT THAT SEPARATE TWO-WAY TRAFFIC, BI-DIRECTIONAL YELLOW DELINEATORS MAY BE INSTALLED ON THE TOP OF THE BARRIER WALL IN LIEU OF SIDE-MOUNTED MONO-DIRECTIONAL YELLOW DELINEATORS.



NORMAL (SOLID) WALL SECTION



(SEPARATE SEGMENT) WALL SECTION

APPROXIMATE DELINEATOR SPACING	
TANGENT	100'
CURVE	50'

SPACING SHOULD BE ADJUSTED IN CURVES SO THAT SEVERAL DELINEATORS ARE ALWAYS SIMULTANEOUSLY VISIBLE TO THE ROAD USER.

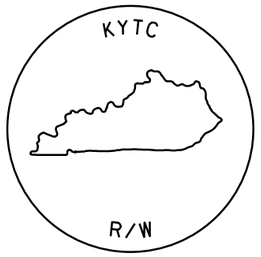
KENTUCKY
DEPARTMENT OF HIGHWAYS

DELINEATORS FOR
CONCRETE BARRIERS

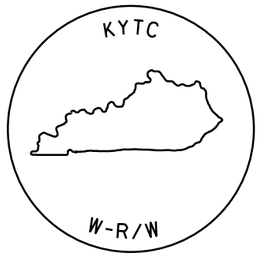
SUBMITTED _____ 7-13-2012
TEBM DESIGN DIVISION OF DESIGN — DATE

004

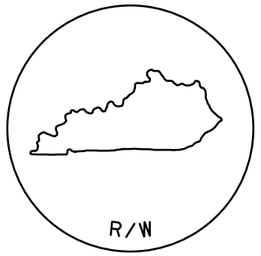
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R77



R/W MONUMENT
TYPE 1 OR 1A



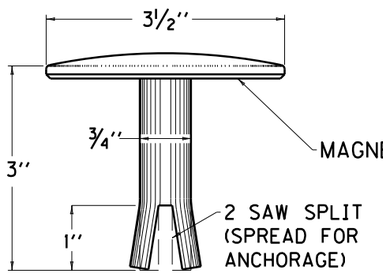
WITNESS R/W
MONUMENT
TYPE 2



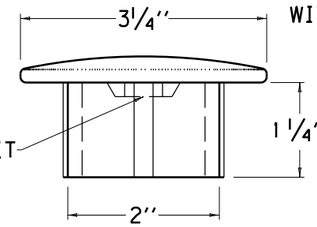
R/W MONUMENT
TYPE 3 OR 3A



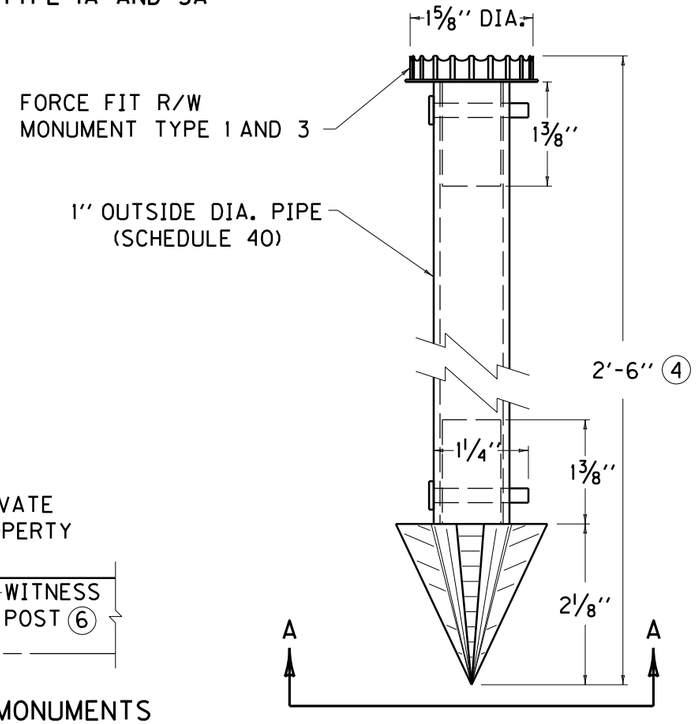
WITNESS R/W
MONUMENT
TYPE 4



ELEVATION VIEW
R/W MONUMENT
TYPE 1A AND 3A



ELEVATION VIEW
R/W MONUMENT
TYPE 1 AND 3

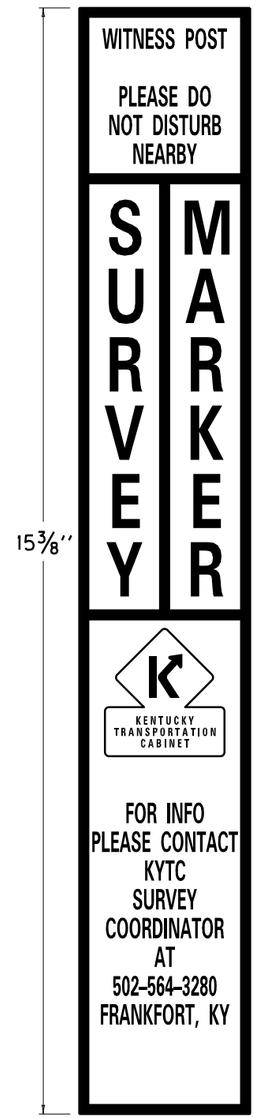


ELEVATION VIEW
R/W MONUMENT
TYPE 1 AND 3

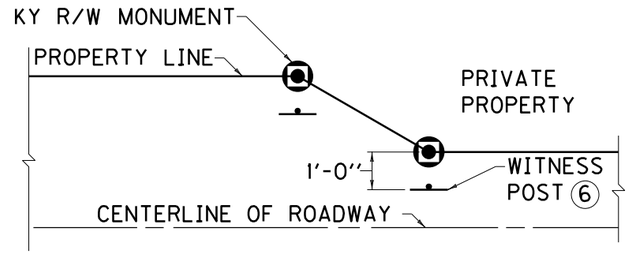
ORANGE
FIBERGLASS
WITNESS POST



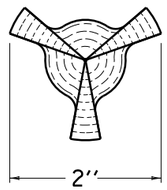
ELEVATION WITNESS POST



WITNESS POST DECAL



LAYOUT OF RURAL RIGHT-OF-WAY MONUMENTS



SECTION A-A

NOTES

1. MANUFACTURE R/W MONUMENTS FROM ALUMINUM ALLOY.
2. TYPE 1A AND 3A MONUMENTS SHALL BE MOUNTED FLUSH IN EXISTING PAVEMENT, DRAINAGE BOXES, ETC. DRILL A 1 1/16'' DIAMETER HOLE AND EPOXY (COMMERCIAL GRADE) INTO EXISTING CONCRETE.

(3) WITNESS POST SHALL BE BURIED 1'-6'' TO 2'-0'' IN GROUND.

(4) WHEN ROCK IS ENCOUNTERED LENGTH MAY BE REDUCED.

5. SET ALL R/W MONUMENTS FLUSH WITH GROUND OR ADJOINING SURFACE.

(6) THE LAND SURVEYOR IN CHARGE OF MONUMENTATION IS ENCOURAGED TO PLACE A WITNESS POST FOR THE RIGHT-OF-WAY MONUMENTS WHERE PRACTICAL AND FEASIBLE. IF POSSIBLE, A MINIMUM OF THREE WITNESS POSTS PER PROJECT SHOULD BE PLACED.

KENTUCKY
DEPARTMENT OF HIGHWAYS

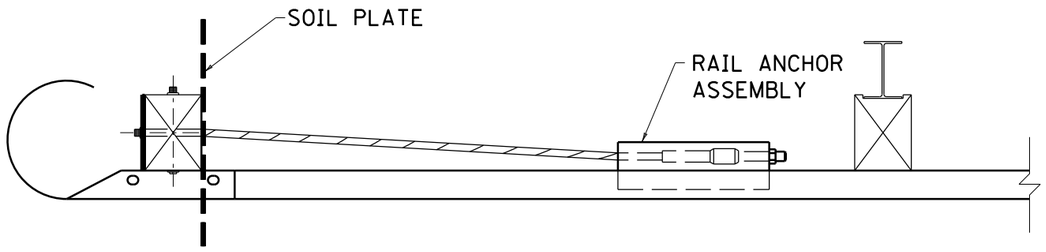
RIGHT-OF-WAY
MONUMENTS

SUBMITTED Jeff Jasper 6-03-12
DIRECTOR DIVISION OF HIGHWAY DESIGN — DATE

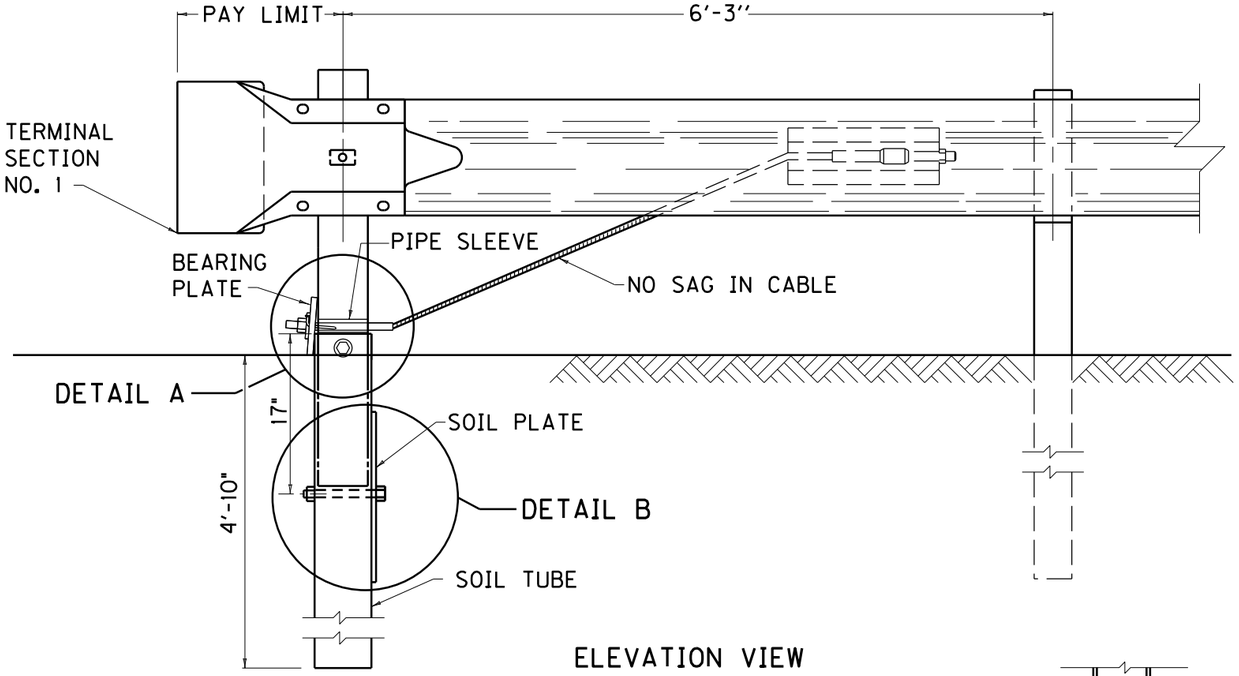
005

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 005.DGN
USER: will
DATE PLOTTED: March 19, 2013
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R78



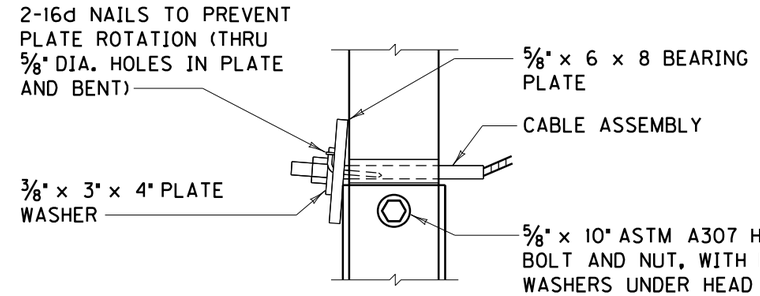
PLAN VIEW



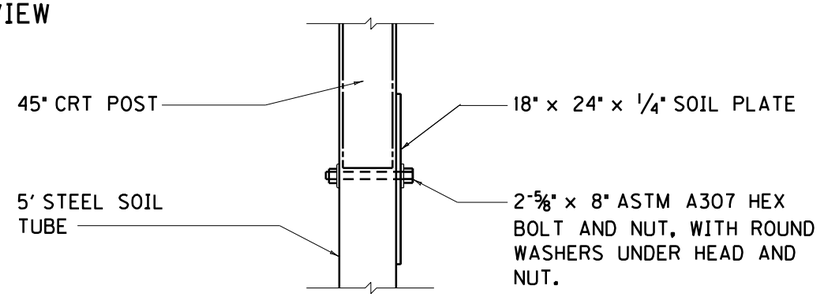
ELEVATION VIEW

NOTES

1. GUARDRAIL END TREATMENT TYPE 2A SHALL BE TO THE PAY LIMITS AS DETAILED. THE CONTRACT UNIT BID IS EACH AND SHALL INCLUDE A TERMINAL SECTION NO. 1, RAIL ANCHOR ASSEMBLY, CABLE ANCHOR ASSEMBLY AND ALL OTHER INCIDENTALS NECESSARY FOR A COMPLETE INSTALLATION AS DETAILED.
2. IN THE EVENT SOLID ROCK IS ENCOUNTERED, THE SOIL TUBE MAY BE SHORTENED, PROVIDED IT EXTENDS INTO THE SOLID GROUND A MINIMUM OF 3 FEET.
3. INSTALL BEARING PLATE SO THAT THE "V" OPENING IS AT THE TOP.



DETAIL A



DETAIL B

USE WITH CUR. STD. DWGS.
RBR-010 , RBI-001,
RBI-002, RBI-003

KENTUCKY
DEPARTMENT OF HIGHWAYS

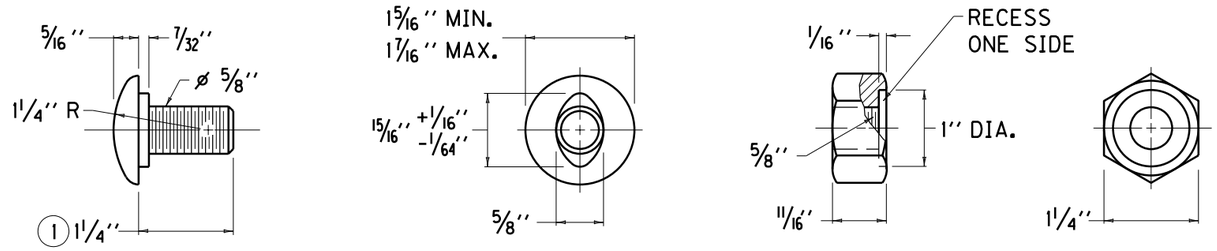
GUARDRAIL
END TREATMENT
TYPE 2A

SUBMITTED Jeff Casper 6-15-2012
DIRECTOR DIVISION OF HIGHWAY DESIGN DATE

007

MicroStation v8.11.9.357 E-SHEET NAME: USER: will DATE PLOTTED: October 30, 2014 FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 007.DGN

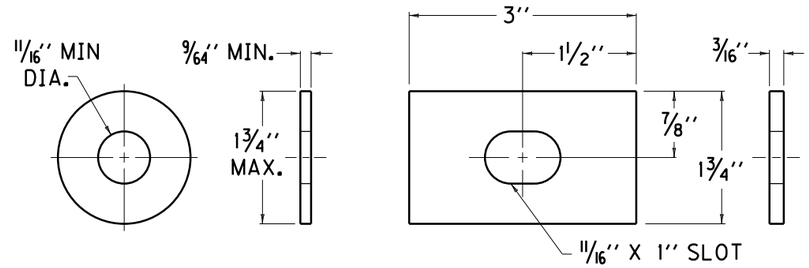
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R79



5/8'' BUTTON HEAD BOLT AND RECESSED NUT

NOTES

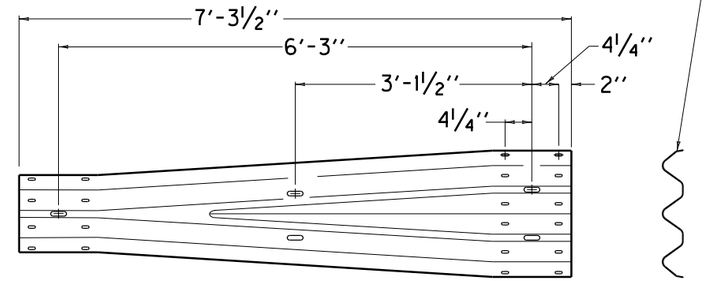
1. RAIL BOLT SIMILAR EXCEPT LENGTH.
2. THE THRIE BEAM TO ''W'' BEAM CONNECTOR SHALL COMPLY WITH AASHTO M-180 CLASS A, TYPE 2 EXCEPT WHERE IN CONFLICT WITH THIS DETAIL.



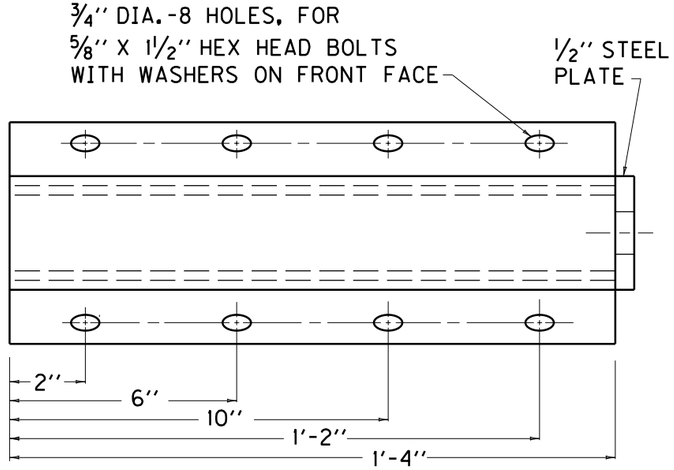
ROUND WASHER AND RECTANGULAR PLATE WASHER

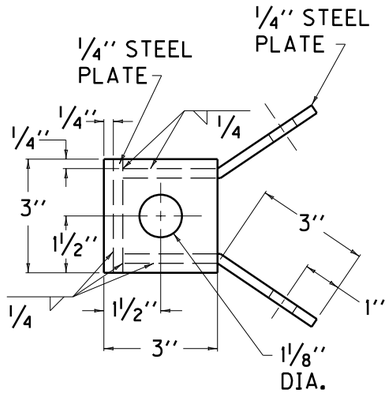
SEE CUR. STD. DWG. RBR-001 FOR DIMENSIONS

SEE CUR. STD. DWG. RBR-100 FOR DIMENSIONS

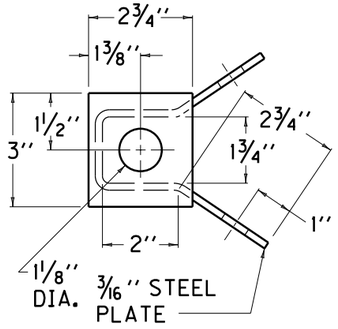


THRIE BEAM TO ''W'' BEAM CONNECTOR (2)





ALTERNATE NO. 1



ALTERNATE NO. 2

RAIL ANCHOR ASSEMBLY

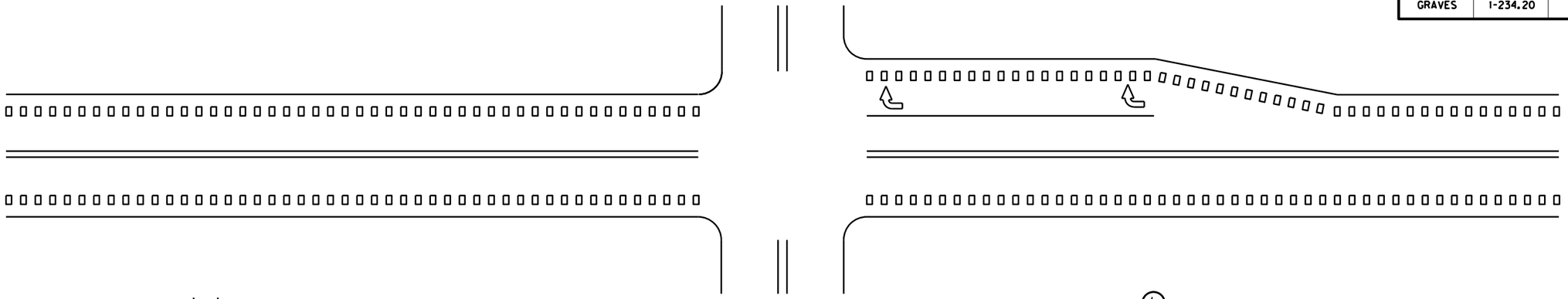
KENTUCKY DEPARTMENT OF HIGHWAYS

GUARDRAIL COMPONENTS

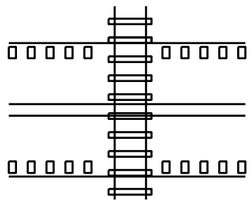
SUBMITTED TEBM DIVISION OF DESIGN 6-15-2012 DATE

008

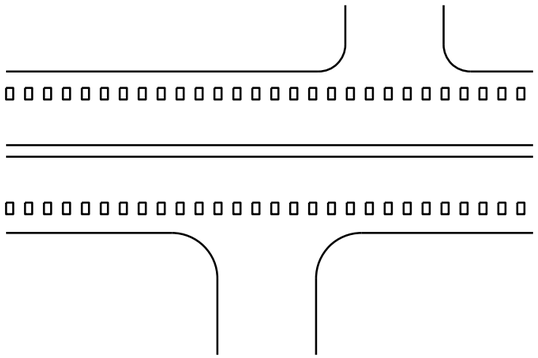
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R80



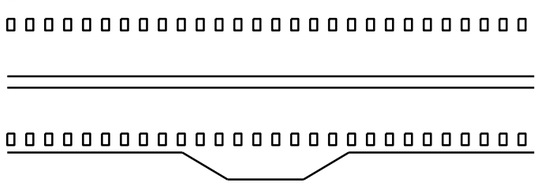
INTERSECTIONS WITH OR WITHOUT RIGHT-TURN LANES ①



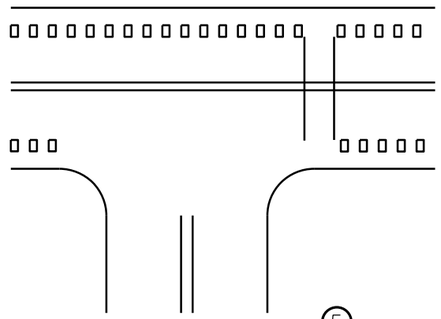
HIGHWAY-RAIL GRADE CROSSINGS ②



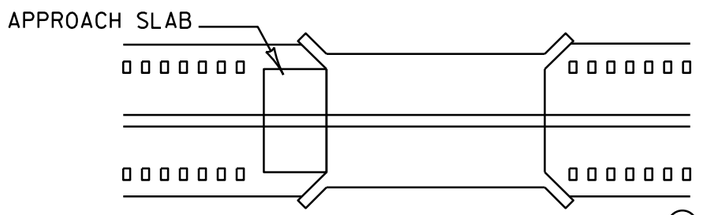
DRIVEWAYS/MINOR COMMERCIAL ENTRANCES ③



MAILBOX TURNOUTS ④



MARKED CROSSWALK ⑤



BRIDGE DECK/APPROACH SLAB ⑥

GENERAL NOTES

① SHOULDER RUMBLE STRIPS SHALL BE OMITTED THROUGH MAJOR INTERSECTIONS WITH OR WITHOUT RIGHT-TURN LANES. RUMBLE STRIPS SHALL BE OMITTED IN THE AREA WHERE EDGE LINE PAVEMENT MARKINGS HAVE BEEN OMITTED (NORMALLY WHERE SIDE STREET RADIUS INTERSECTS MAINLINE). RUMBLE STRIPS SHALL BE OMITTED WHERE THE POSTED SPEED LIMIT IS 45 MPH OR LESS.

② SHOULDER RUMBLE STRIPS SHALL NOT BE INSTALLED ACROSS HIGHWAY-RAIL GRADE CROSSINGS.

③ SHOULDER RUMBLE STRIPS SHALL BE INSTALLED THROUGH DRIVEWAYS/MINOR COMMERCIAL ENTRANCES.

④ SHOULDER RUMBLE STRIPS SHALL BE INSTALLED THROUGH MAILBOX TURNOUTS.

⑤ SHOULDER RUMBLE STRIPS SHALL NOT BE INSTALLED THROUGH MARKED CROSSWALKS.

⑥ SHOULDER RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS OR APPROACH SLABS.

KENTUCKY DEPARTMENT OF HIGHWAYS

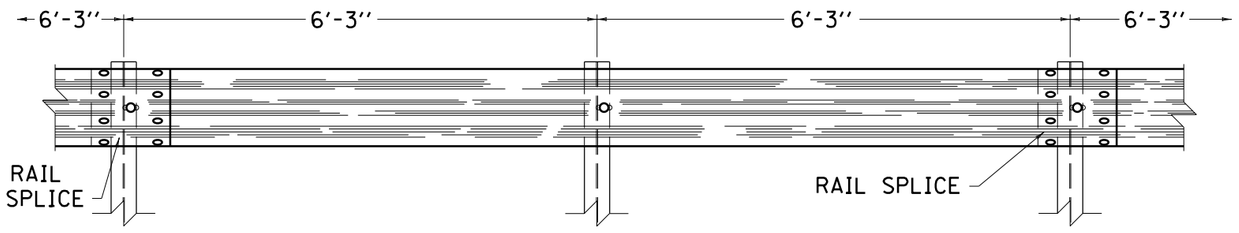
SHOULDER RUMBLE STRIPS

SUBMITTED R. Jeffrey Wolfe 10-23-12 DATE

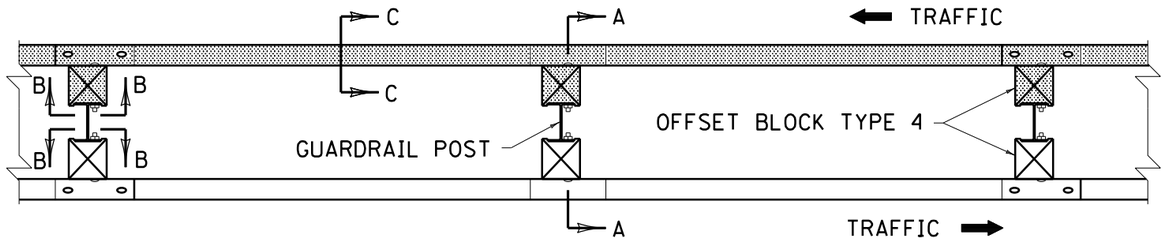
011

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 011.DGN
USER: will
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

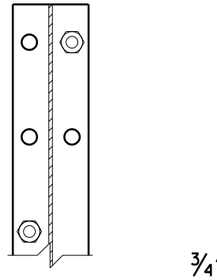
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R81



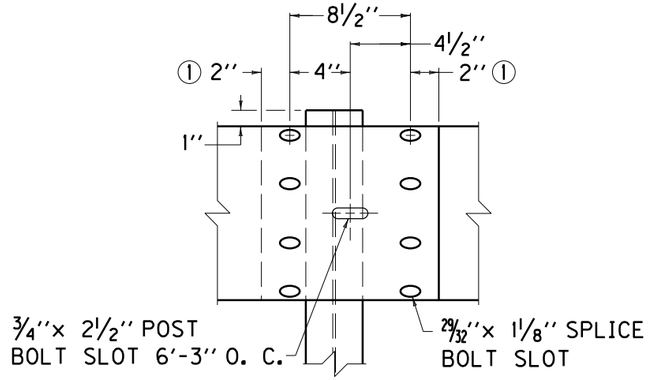
ELEVATION VIEW



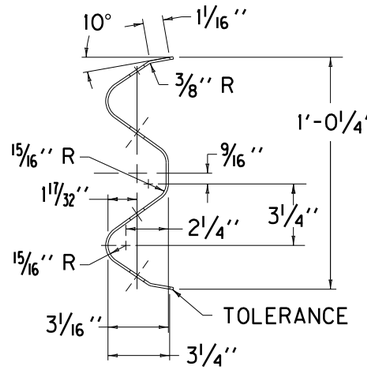
PLAN VIEW
(DOUBLE FACE RAIL OR SINGLE FACE RAIL)



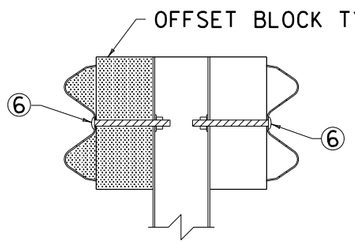
SECTION B-B



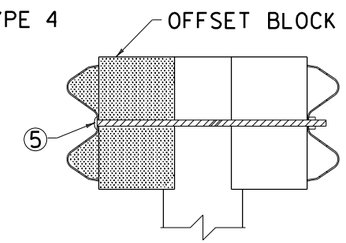
RAIL SPLICE ②



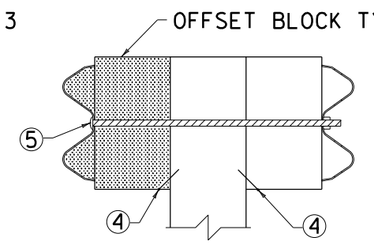
SECTION C-C
(RAIL CORRUGATED
SHEET STEEL BEAM)



SECTION A-A
DOUBLE FACE RAIL WITH
STEEL POST (W6x9)
(TIMBER OFFSET BLOCK)



SECTION A-A
DOUBLE FACE RAIL WITH
ROUND TIMBER POST



SECTION A-A
DOUBLE FACE RAIL WITH
TIMBER POST

NOTES

THE CONTRACT UNIT PRICE BID SHALL BE:
GUARDRAIL-STEEL W BEAM-SINGLE FACE - LIN. FT.
OR
GUARDRAIL-STEEL W BEAM-DOUBLE FACE - LIN. FT.

DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONING OF THE PART, INCLUDING ITS APPEARANCE AND ACCEPTED MANUFACTURING PRACTICES.

THE RAIL ELEMENT SHALL COMPLY WITH AASHTO M-180 -CLASS A, TYPE II.

ALL LAPS SHALL BE PLACED IN THE DIRECTION OF TRAFFIC FLOW.

① TOLERANCE + 1¼", -¼"

② 8 -⅝"× 1¼" LONG BUTTON HEAD BOLTS AND HEX HEAD RECESS NUTS REQUIRED FOR EACH RAIL SPLICE.

③ LENGTH EQUALS POST AND BLOCK WIDTH PLUS: 2" FOR BOLT OR 2¼" FOR THREADED ROD.

④ GALVANIZED STEEL 10d COMMON COATED NAIL (DRIVE NAIL AT THE TOP OR BOTTOM CENTER OF BLOCK AND POST AFTER BOLT IS INSTALLED).

⑤ ⅝"× ③ STEEL THREADED ROD AND TWO (2) HEX HEAD NUTS OR ⅝"× ③ BUTTON OR HEX HEAD BOLT AND HEX HEAD NUT.

⑥ ⅝"×8" BUTTON HEAD BOLT, HEX HEAD RECESS NUT AND ONE ⅝" ROUND WASHER (TYP.). BOLT SHALL HAVE A MINIMUM THREAD LENGTH OF 2".

▨ REQUIRED FOR DOUBLE RAIL

7 BOTH 12'-6" AND 25' LENGTHS OF "W" BEAM GUARDRAIL SECTIONS WILL BE PERMITTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

KENTUCKY
DEPARTMENT OF HIGHWAYS

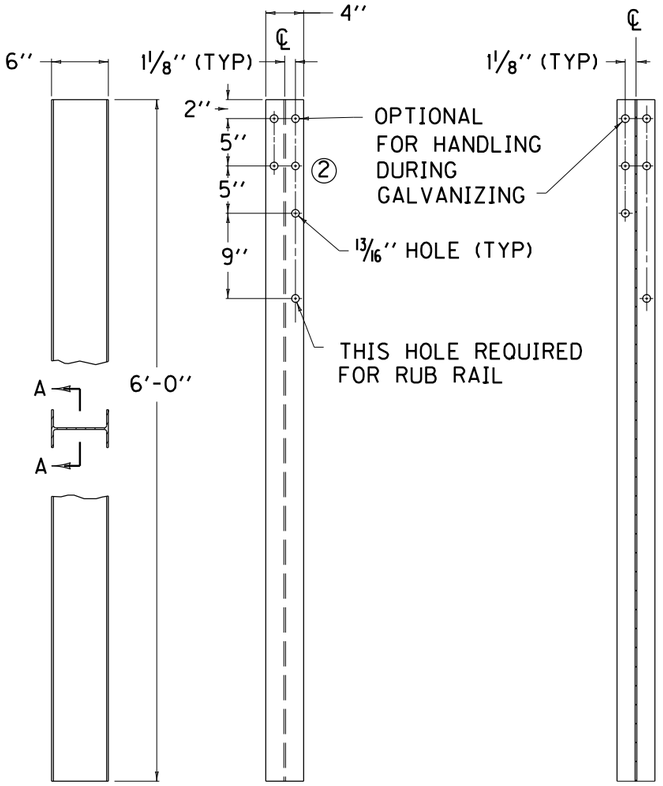
STEEL BEAM
GUARDRAIL
("W" BEAM)

SUBMITTED Jeff Casper 12-11-12
DIRECTOR DIVISION OF DESIGN DATE

012

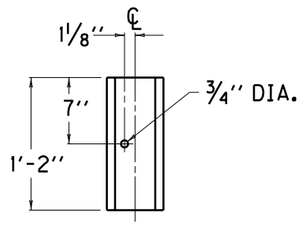
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 012.DGN
USER: will
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R82

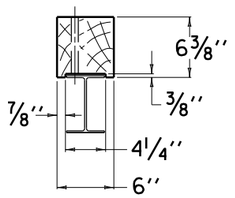


SIDE VIEW FRONT VIEW SECTION A-A

~ W6 X 9.0 STEEL POST ① ~



REAR ELEVATION

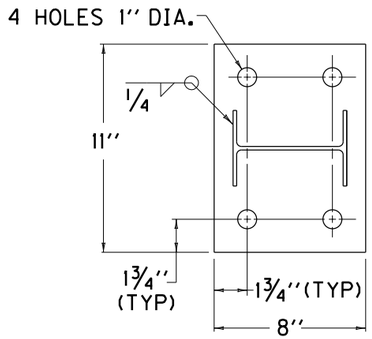


PLAN VIEW

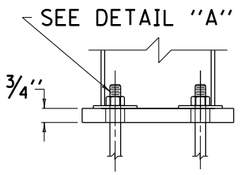
OFFSET BLOCK TYPE 4
(TIMBER)
(FOR USE WITH STEEL POST ONLY)

~ NOTES ~

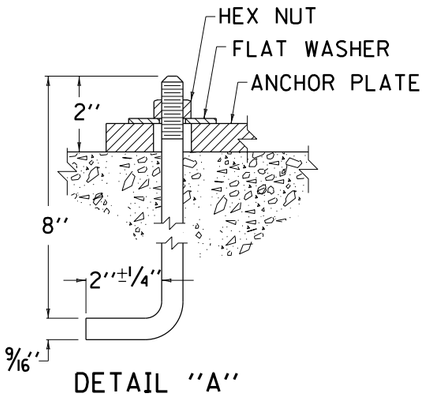
① W6 X 8.5 IS AN ACCEPTABLE ALTERNATE.
② THESE HOLES REQUIRED FOR ATTACHING RAIL.



PLAN VIEW



SIDE VIEW
ANCHOR PLATE



DETAIL ''A''

KENTUCKY
DEPARTMENT OF HIGHWAYS

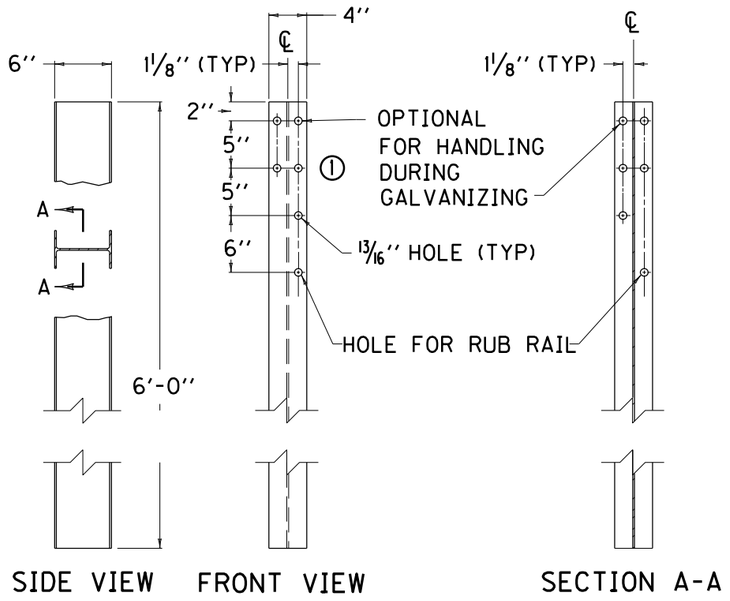
GUARDRAIL POSTS

SUBMITTED Jeff Casper 9-27-13
DATE

013

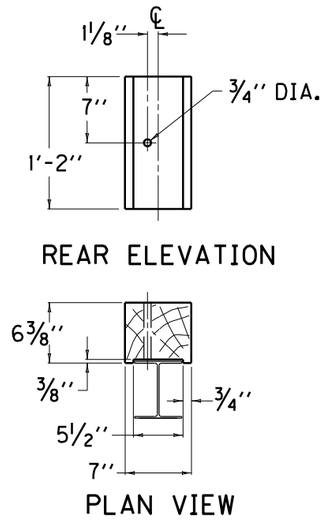
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 013.DGN
USER: will
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R83



~ W6 X 9.0 STEEL GUARDRAIL POST ~

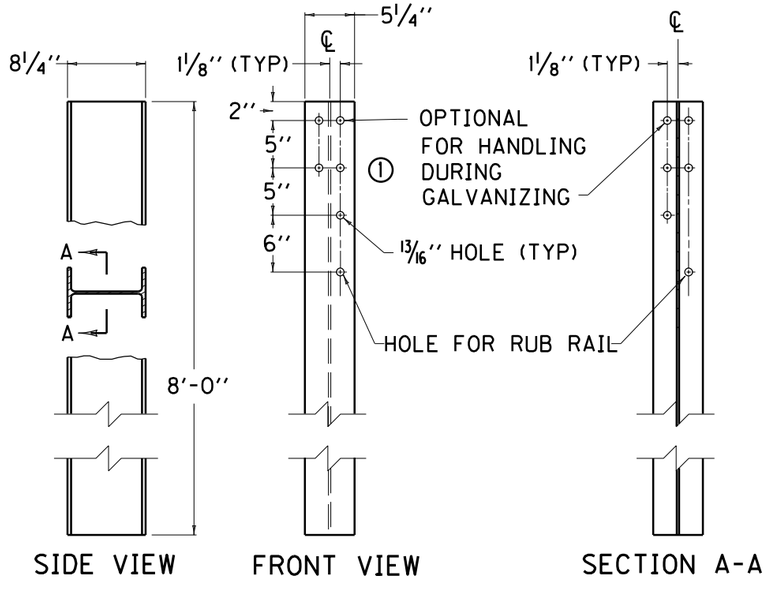
(USED WITH C6 X 8.2 RUB RAIL)



OFFSET BLOCK TYPE 6

(TIMBER)

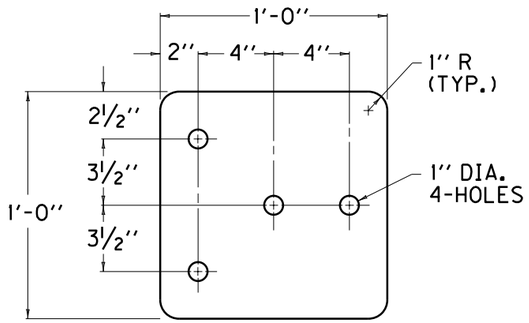
(FOR USE WITH W8 X 21 STEEL POST ONLY)



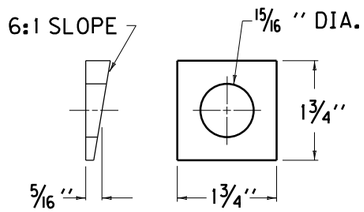
~ W8 X 21 STEEL GUARDRAIL POST ~

~ NOTES ~

① THESE HOLES REQUIRED FOR ATTACHING RAIL.



5/8'' STEEL PLATE ''A''



BEVELED WASHER

KENTUCKY DEPARTMENT OF HIGHWAYS

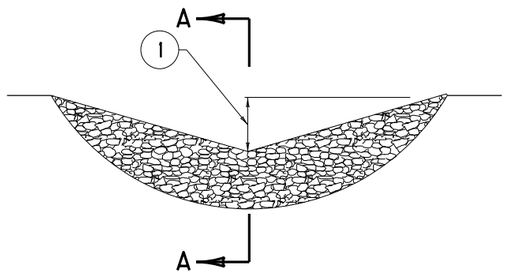
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1 COMPONENTS

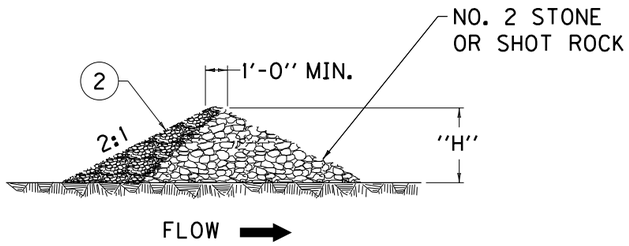
SUBMITTED _____ DATE 9-27-13

014

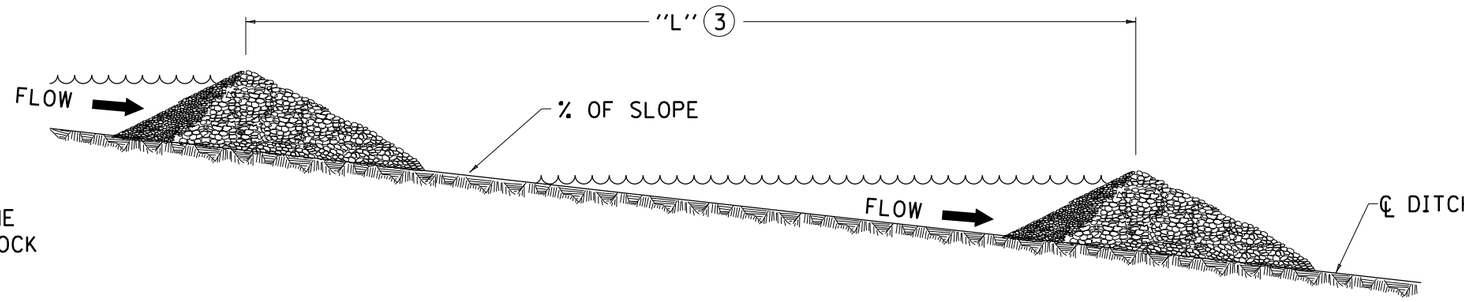
MicroStation v8.11.9.357
E-SHEET NAME:
USER: will
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 014.DGN

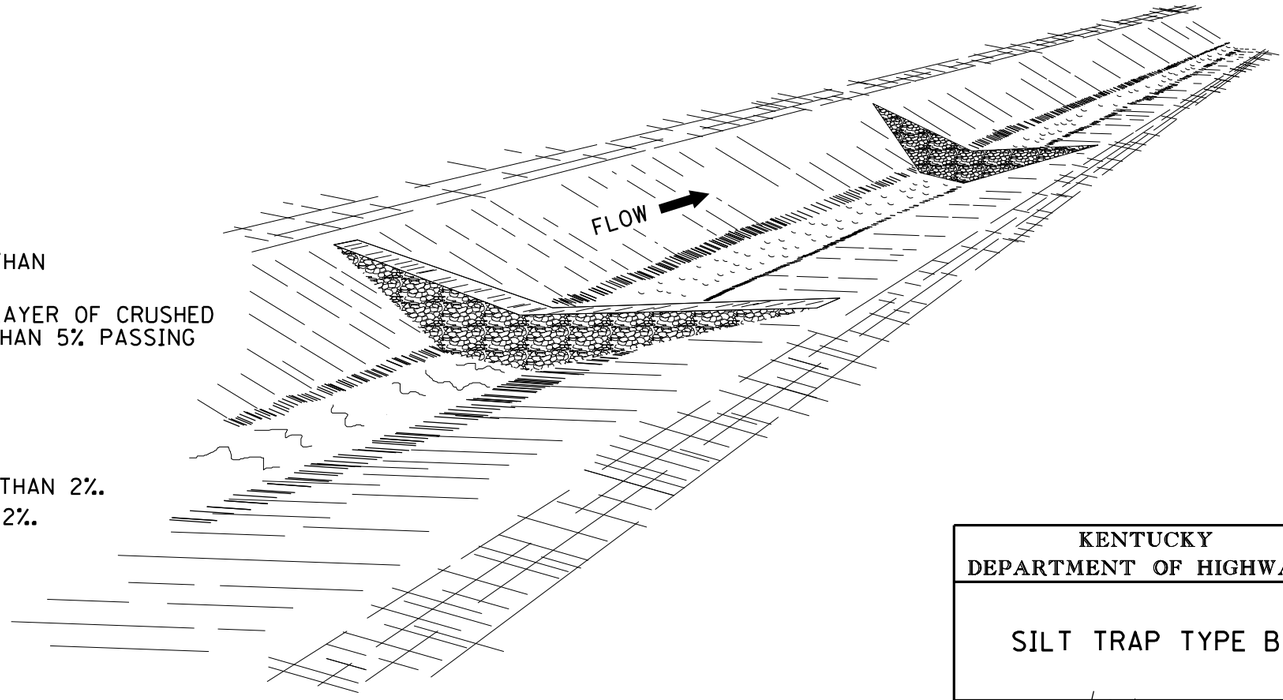
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R84





SECTION ''A~A''





~NOTES~

BID ITEM AND UNIT TO BID:

CODE	PAY ITEM	PAY UNIT
2704	SILT TRAP TYPE B	EACH
2707	CLEAN SILT TRAP TYPE B	EACH

(1) MIDDLE OF SILT TRAP SHALL BE A MINIMUM OF 1'-0'' LOWER THAN SIDES SO FLOW WILL NOT BYPASS TRAP OR ERODE BANKS.

(2) UPSTREAM FACE OF SILT TRAP SHALL BE A FOUR INCH MIN. LAYER OF CRUSHED AGGREGATE HAVING 100% PASSING A 3'' SIEVE AND NO MORE THAN 5% PASSING A NO. 8 SIEVE (SEE SECTION ''A-A'').

(3) $''L'' = \frac{''H''}{\text{SLOPE OF DITCH}}$

(4) SPACE SILT TRAPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

5. SILT TRAP TYPE B SHALL BE USED ON ALL SLOPES GREATER THAN 2%.
6. SILT TRAP TYPE B MAY BE USED ON ALL SLOPES LESS THAN 2%.

KENTUCKY
DEPARTMENT OF HIGHWAYS

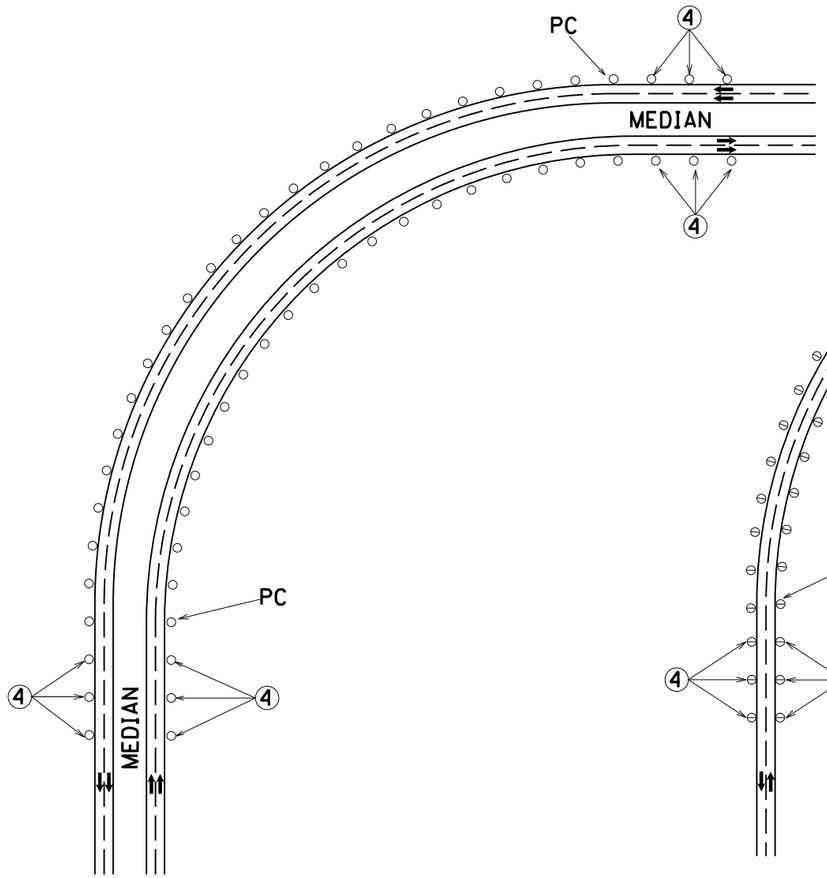
SILT TRAP TYPE B

SUBMITTED Jeff Draper 7-18-13
DATE

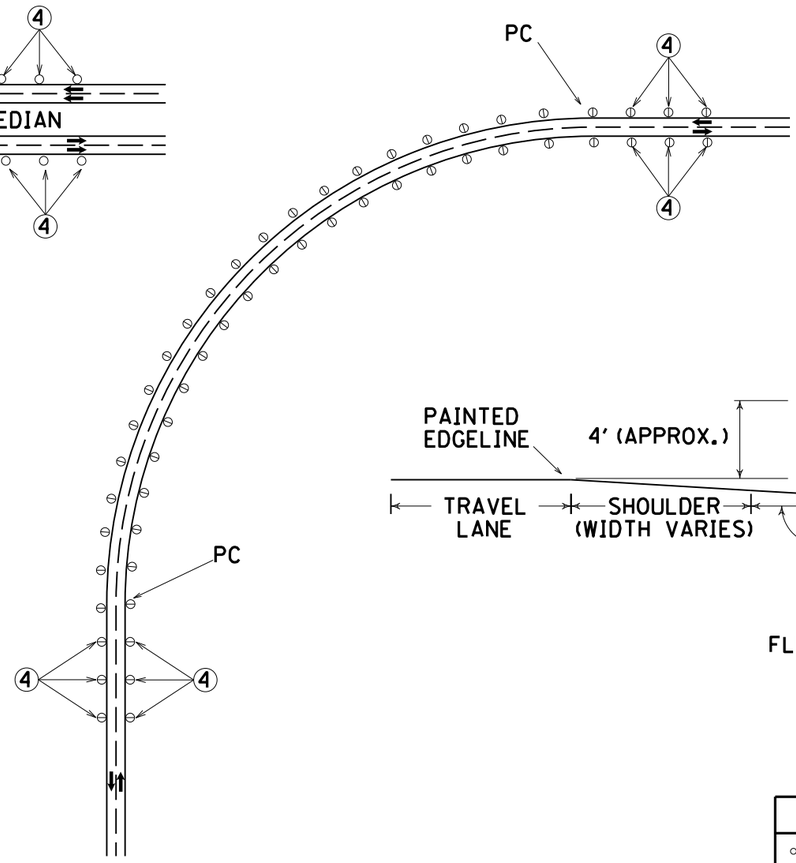
016

MicroStation v8.11.9.357
E-SHEET NAME:
USER: will
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 016.DGN

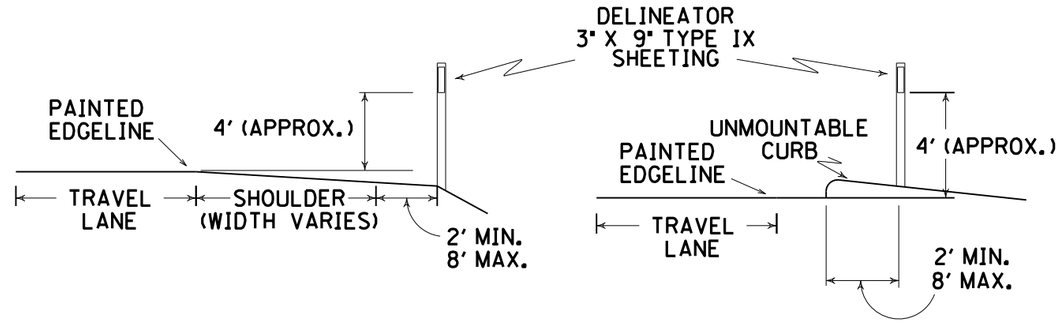
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R85



DELINEATION FOR HORIZONTAL CURVES
ON MULTI-LANE EXPRESSWAYS/FREEWAYS



DELINEATION FOR HORIZONTAL CURVES
ON TWO-LANE EXPRESSWAYS/FREEWAYS



FLEXIBLE DELINEATOR POST
MOUNTING DETAILS

LEGEND	
○	FLEXIBLE DELINEATOR POST - M/W (MONO-WHITE)
⊖	FLEXIBLE DELINEATOR POST - B/W (BI-WHITE)
APPROX. SPACING = 50 FEET	
UNIT BID = EACH	

GENERAL NOTES

1. DELINEATORS SHALL BE FROM THE LIST OF APPROVED MATERIALS AND SHALL BE IN ACCORDANCE WITH SECTION 838 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. THE DELINEATOR POST AND RETROREFLECTIVE SHEETING SHALL BE THE SAME COLOR AND SHALL MATCH THE COLOR OF THE EDGELINES THEY SUPPLEMENT.
4. THREE DELINEATORS SHOULD BE INSTALLED IN ADVANCE OF THE BEGINNING AND PROCEEDING AWAY FROM THE END OF THE CURVE AT A SPACING OF APPROXIMATELY 50 FEET.
5. DELINEATORS SHALL BE PROVIDED ON THE RIGHT-HAND SIDE OF HORIZONTAL CURVES ON EXPRESSWAYS AND FREEWAYS. DELINEATORS ARE NOT REQUIRED ON TANGENT SECTIONS OF EXPRESSWAYS AND FREEWAYS.
6. A FREEWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS. AN EXPRESSWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
7. DELINEATORS SHOULD BE PLACED AT A CONSTANT DISTANCE FROM THE ROADWAY EDGE. WHEN AN OBSTRUCTION EXISTS NEAR THE PAVEMENT EDGE, THE LINE OF DELINEATORS SHOULD BE TRANSITIONED TO THE INSIDE OF THE OBSTRUCTION OR TO THE BARRIER DELINEATION IF THE OBSTRUCTION IS GUARDRAIL OR BARRIER WALL. SUCH TRANSITIONS SHOULD BEGIN APPROXIMATELY 200 FT IN ADVANCE OF THE OBSTRUCTION/BARRIER.
8. DELINEATORS SHOULD BE INSTALLED AT AN APPROXIMATE RIGHT ANGLE TO APPROACHING TRAFFIC.
9. DELINEATORS MAY BE DISCONTINUED ALONG SECTIONS WITH BARRIER WALL OR GUARDRAIL DELINEATION.

DRAWING NOT TO SCALE

KENTUCKY
DEPARTMENT OF HIGHWAYS

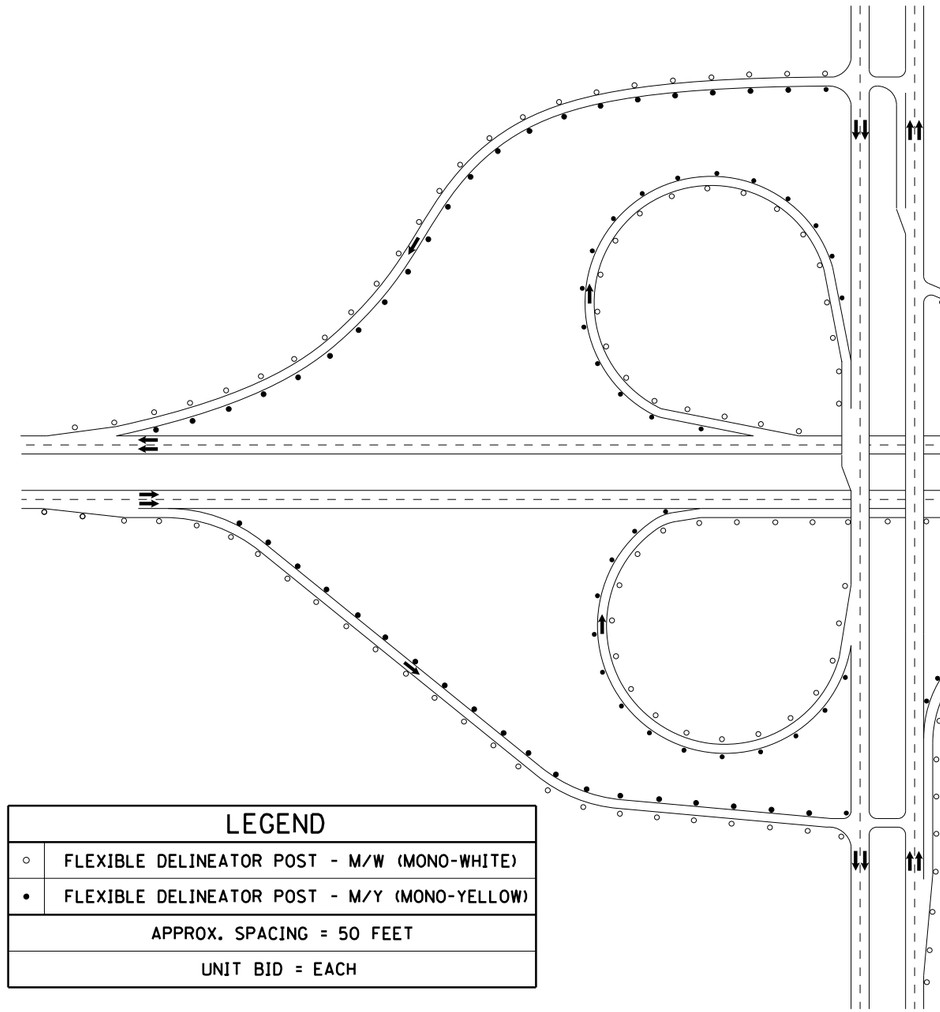
FLEXIBLE DELINEATOR
POST ARRANGEMENTS
FOR
HORIZONTAL CURVES

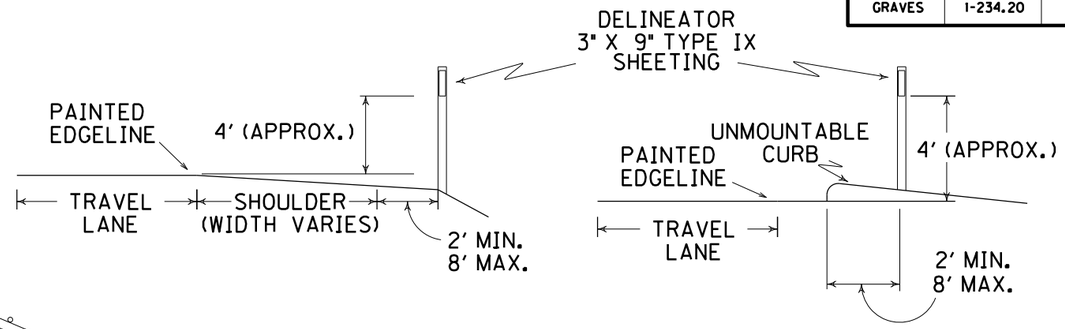
SUBMITTED R. Jeffrey Wolfe 8-29-13
DATE

018

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 018.DGN
USER: ryan-s
DATE PLOTTED: July 23, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

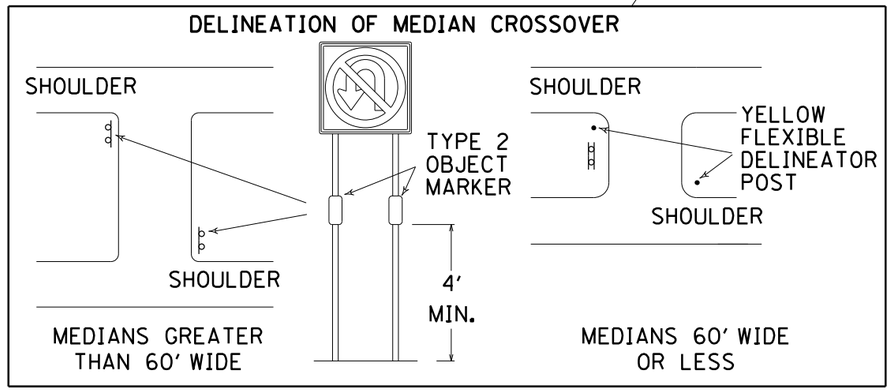
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R86





FLEXIBLE DELINEATOR POST
MOUNTING DETAILS

LEGEND	
○	FLEXIBLE DELINEATOR POST - M/W (MONO-WHITE)
•	FLEXIBLE DELINEATOR POST - M/Y (MONO-YELLOW)
APPROX. SPACING = 50 FEET	
UNIT BID = EACH	



GENERAL NOTES

1. DELINEATORS SHALL BE FROM THE LIST OF APPROVED MATERIALS AND SHALL BE IN ACCORDANCE WITH SECTION 838 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. THE DELINEATOR POST AND RETROREFLECTIVE SHEETING SHALL BE THE SAME COLOR AND SHALL MATCH THE COLOR OF THE EDGELINES THEY SUPPLEMENT.
4. DELINEATORS SHOULD BE PROVIDED ON BOTH SIDES OF INTERCHANGE RAMPS. DELINEATORS SHOULD BE ERECTED AT 50 FOOT INTERVALS ALONG RAMPS AND ACCELERATION AND DECELERATION LANES ON THE MAINLINE AND CROSSROAD.
5. DELINEATORS SHOULD BE PLACED AT A CONSTANT DISTANCE FROM THE ROADWAY EDGE. WHEN AN OBSTRUCTION EXISTS NEAR THE PAVEMENT EDGE, THE LINE OF DELINEATORS SHOULD BE TRANSITIONED TO THE INSIDE OF THE OBSTRUCTION OR TO THE BARRIER DELINEATION IF THE OBSTRUCTION IS GUARDRAIL OR BARRIER WALL. SUCH TRANSITIONS SHOULD BEGIN APPROXIMATELY 200 FEET IN ADVANCE OF THE OBSTRUCTION/BARRIER.
6. DELINEATORS SHOULD BE INSTALLED AT AN APPROXIMATE RIGHT ANGLE TO APPROACHING TRAFFIC.
7. DELINEATORS MAY BE DISCONTINUED ALONG SECTIONS WITH BARRIER WALL OR GUARDRAIL DELINEATION.

DRAWING NOT TO SCALE

KENTUCKY
DEPARTMENT OF HIGHWAYS

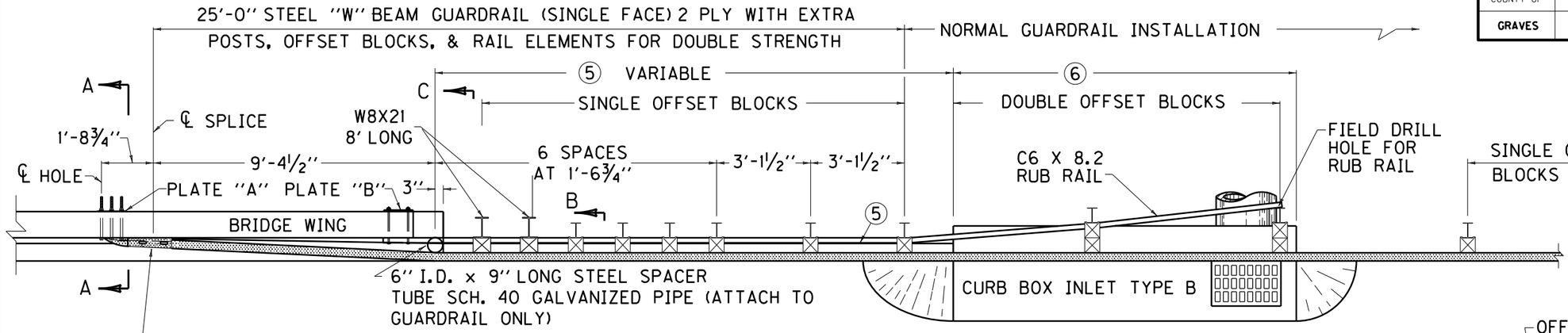
FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR INTERCHANGE RAMPS AND CROSSOVERS

SUBMITTED R. Jeffrey Wolfe 8-29-13
DATE

019

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 019.DGN
USER: will
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R87



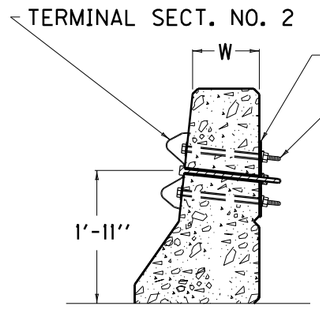
PLAN VIEW
TYPE A

~ NOTES ~

1. GENERAL
   a. SEE CUR. STD. DWGS. IN THE RBB, RBI, RBR, AND RPM-SERIES FOR OTHER RELATED GUARDRAIL DETAILS AND BRIDGE PLANS FOR BRIDGE WING DETAIL.
   b. SEE CUR. STD. DWG. RDB-SERIES FOR CURB BOX INLET TYPE B.
   c. GUARDRAIL CONNECTOR TO BRIDGE END TYPE A IS FOR USE ON BOTH BRIDGE ENDS OF AN UNDIVIDED HIGHWAY AND ON THE APPROACH BRIDGE ENDS OF A DIVIDED HIGHWAY.
2. MATERIAL REQUIREMENTS
   ALL HARDWARE SHALL BE GALVANIZED. (AASHTO M-232)
   ⅝" STEEL PLATE "A" (AASHTO M-270)
   ⅞" HEX HEAD BOLTS OR STEEL THREADED RODS (LENGTH AS SHOWN)
   ⅞" HEAVY HEX NUTS (⅞" THICK) (AASHTO M-291)
   ⅞" FLAT WASHERS (3⁄16" THICK) (AASHTO M-293)
   ⅞" BEVELED WASHERS (5⁄16" MEAN THICKNESS) (AASHTO M-293)
   BOTH THE BOLT AND THREADED ROD SHALL HAVE A MINIMUM OF 50,000 LBS. TENSILE STRENGTH AT THE NARROWEST POINT.
3. CONSTRUCTION METHODS
   a. ELIMINATE EXTRA OFFSET BLOCKS WHEN CURB BOX INLET TYPE B IS NOT REQUIRED.
   b. HOLES TO BE FORMED THROUGH BRIDGE WING WITH 1" I.D. PLASTIC PIPE FOR ⅞" BOLTS AND ¾" I.D. PLASTIC PIPE FOR ⅝" BOLTS, PIPE SHALL REMAIN IN PLACE.
4. METHOD OF MEASUREMENT AND BASIS OF PAYMENT
   a. GUARDRAIL CONNECTOR TO BRIDGE END TYPE A SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, AND INCLUDES: TERMINAL SECTION NO. 2; ALL ITEMS WHICH ARE IN ADDITION TO THE NORMAL INSTALLATION OF STEEL BEAM GUARDRAIL (EXTRA POSTS, OFFSET BLOCKS, RAIL ELEMENTS, SPACER TUBE, HARDWARE, RUB RAIL, ETC.), AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION AS DETAILED. STEEL "W" BEAM GUARDRAIL (SINGLE FACE) AND ISLAND HEADER CURB ARE SEPARATE BID ITEMS WHICH ARE ALWAYS REQUIRED. CURB BOX INLET TYPE B IS A SEPARATE BID ITEM THAT WILL BE USED WHEN REQUIRED FOR BRIDGE END DRAINAGE.

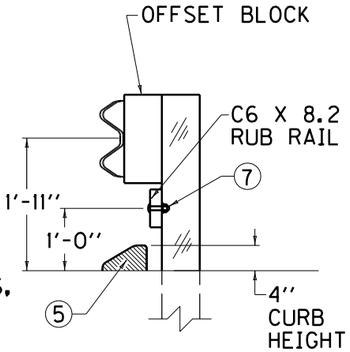
PAY ITEM	PAY UNIT
GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH
GUARDRAIL-STEEL "W" BEAM-S FACE	LF
ISLAND HEADER CURB TYPE 1 OR 2	LF
CURB BOX INLET TYPE B (AS REQUIRED)	EACH

   b. THE PLASTIC PIPE AND COST OF FORMING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR BRIDGE SUPERSTRUCTURE CONCRETE.

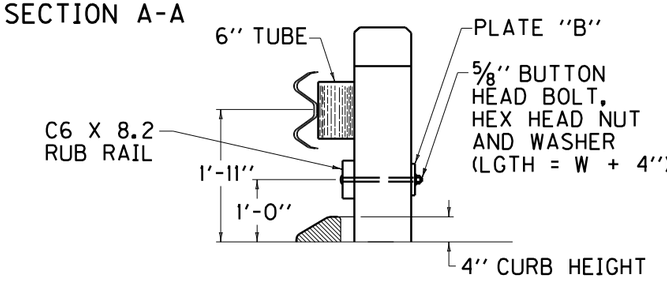


SECTION A-A

4 -⅞" HEX HEAD BOLTS (LENGTH W + 6"), 4 NUTS, 4 BEVELED WASHERS AND 4 FLAT WASHERS.
~ OR ~
4 -⅞" STEEL THREADED RODS (LENGTH W+8"), 8 NUTS, 4 BEVELED WASHERS AND 4 FLAT WASHERS.



SECTION B-B



SECTION C-C

⑤ ISLAND HEADER CURB. TRANSITION FROM ISLAND CURB SHAPE TO SHAPE ON BRIDGE WING WITHIN 7'-3". LENGTH OF CURB VARIABLE (22'-3" WHEN L=5'-0") (17'-3" WHEN L=10'-0") (12'-3" WHEN L=15'-0") (7'-3" WHEN L=20'-0"). ON APPROACH END CONSTRUCT 25'-0" OF ISLAND HEADER CURB EVEN WHEN CURB BOX INLET TYPE B IS NOT REQUIRED.

⑥ 6'-4" WHEN L=5'-0"
11'-4" WHEN L=10'-0" ☆
16'-4" WHEN L=15'-0"
21'-4" WHEN L=20'-0"

⑦ ⅝" X 3½" BUTTON HEAD BOLT, HEX HEAD NUT.

8. CURB BOX NOT REQUIRED UNLESS NEEDED FOR DRAINAGE.

☆ 10'-0" LENGTH IS REQUIRED UNLESS OTHERWISE NOTED.

L EQUALS THROAT LENGTH OF BOX.

USE WITH CUR. STD. DWGS.
BHS-008, RBC-002 AND RBC-003

KENTUCKY
DEPARTMENT OF HIGHWAYS

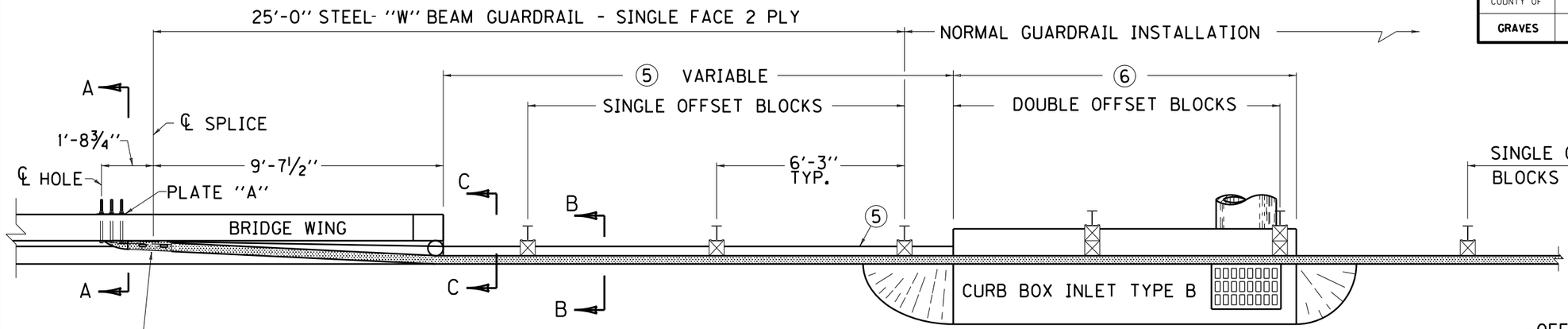
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A

SUBMITTED William S Hulick 7-22-14
DATE

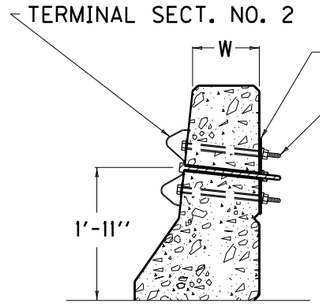
026

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 026.DGN
USER: will
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.357

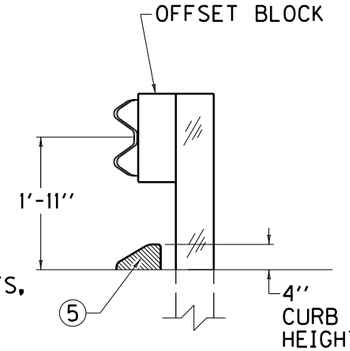
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R88



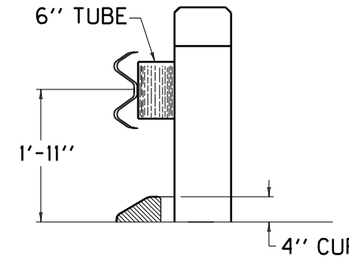
PLAN VIEW
TYPE A-1



SECTION A-A



SECTION B-B



SECTION C-C

~ NOTES ~

1. GENERAL
   a. SEE CUR. STD. DWGS. IN THE RBB, RBI, RBR, AND RPM-SERIES FOR OTHER RELATED GUARDRAIL DETAILS AND BRIDGE PLANS FOR BRIDGE WING DETAIL.
   b. SEE CUR. STD. DWG. RDB-SERIES FOR CURB BOX INLET TYPE B.
   c. GUARDRAIL CONNECTOR TO BRIDGE END TYPE A-1 IS FOR USE ON THE EXIT END OF A DIVIDED HIGHWAY.
2. MATERIAL REQUIREMENTS
   ALL HARDWARE SHALL BE GALVANIZED. (AASHTO M-232)
   ⅝'' STEEL PLATE ''A'' (AASHTO M-270)
   ⅞'' HEX HEAD BOLTS OR STEEL THREADED RODS (LENGTH AS SHOWN)
   ⅞'' HEAVY HEX NUTS (⅞'' THICK) (AASHTO M-291)
   ⅞'' FLAT WASHERS (3⁄16'' THICK) (AASHTO M-293)
   ⅞'' BEVELED WASHERS (5⁄16'' MEAN THICKNESS) (AASHTO M-293)
   BOTH THE BOLT AND THREADED ROD SHALL HAVE A MINIMUM OF 50,000 LBS. TENSILE STRENGTH AT THE NARROWEST POINT.
3. CONSTRUCTION METHODS
   a. ELIMINATE EXTRA OFFSET BLOCKS WHEN CURB BOX INLET TYPE B IS NOT REQUIRED.
   b. HOLES TO BE FORMED THROUGH BRIDGE WING WITH 1'' I.D. PLASTIC PIPE FOR ⅞'' BOLTS. PLASTIC PIPE SHALL REMAIN IN PLACE.
4. METHOD OF MEASUREMENT AND BASIS OF PAYMENT
   a. GUARDRAIL CONNECTOR TO BRIDGE END TYPE A-1 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH INCLUDES TERMINAL SECT. NO. 2, RAIL ELEMENTS, SPACER TUBE, HARDWARE AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION. STEEL "W" BEAM GUARDRAIL (SINGLE FACE) AND ISLAND HEADER CURB ARE SEPARATE BID ITEMS WHICH ARE ALWAYS REQUIRED. CURB BOX INLET TYPE B IS A SEPARATE BID ITEM THAT WILL BE USED WHEN REQUIRED FOR BRIDGE END DRAINAGE.

PAY ITEM	PAY UNIT
GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	EACH
GUARDRAIL-STEEL "W" BEAM-S FACE	LF
ISLAND HEADER CURB TYPE 1 OR 2	LF
CURB BOX INLET TYPE B (AS REQUIRED)	EACH

   b. THE PLASTIC PIPE AND COST OF FORMING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR BRIDGE SUPERSTRUCTURE CONCRETE.

⑤ ISLAND HEADER CURB. TRANSITION FROM ISLAND CURB SHAPE TO SHAPE ON BRIDGE WING WITHIN 7'-3''. LENGTH OF CURB VARIABLE (22'-3'' WHEN L=5'-0'') (17'-3'' WHEN L=10'-0'') (12'-3'' WHEN L=15'-0'') (7'-3'' WHEN L=20'-0''). ON APPROACH END CONSTRUCT 25'-0'' OF ISLAND HEADER CURB EVEN WHEN CURB BOX INLET TYPE B IS NOT REQUIRED.

⑥ 6'-4'' WHEN L=5'-0''
11'-4'' WHEN L=10'-0'' ☆
16'-4'' WHEN L=15'-0''
21'-4'' WHEN L=20'-0''

7. CURB BOX NOT REQUIRED UNLESS NEEDED FOR DRAINAGE.

☆ 10'-0'' LENGTH IS REQUIRED UNLESS OTHERWISE NOTED.
L EQUALS THROAT LENGTH OF BOX.

USE WITH CUR. STD. DWGS.
RBC-003 AND BHS-008

KENTUCKY
DEPARTMENT OF HIGHWAYS

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A-1

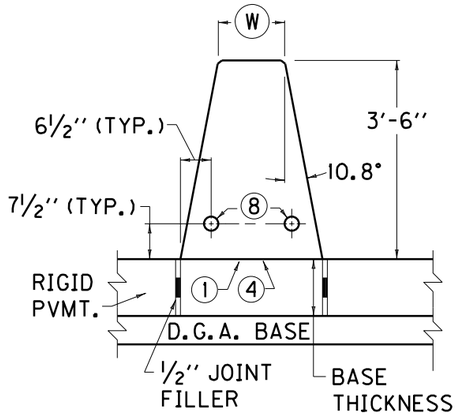
SUBMITTED William S Gallick 7-22-14
DATE

027

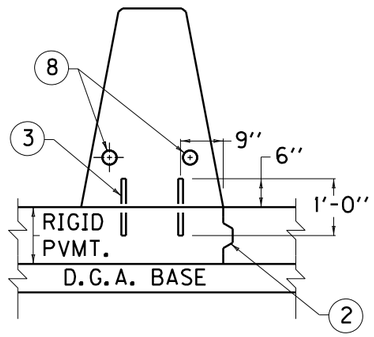
MicroStation v8.11.9.357 | E-SHEET NAME: | USER: will DATE PLOTTED: October 30, 2014 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01395\SEPIA 027.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R89

TYPE 8A, OR 14A

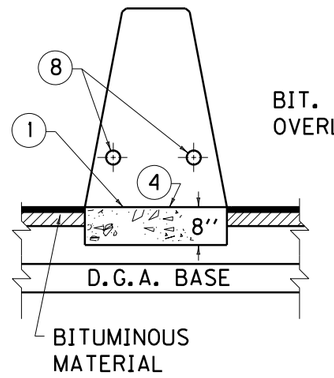


TYPE 8B, OR 14B



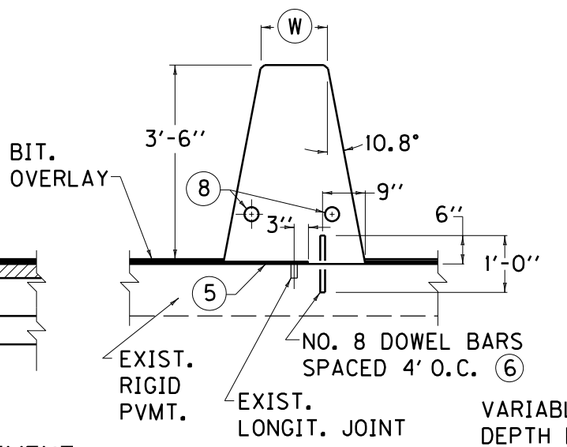
NEW RIGID PAVEMENT

TYPE 8C, OR 14C



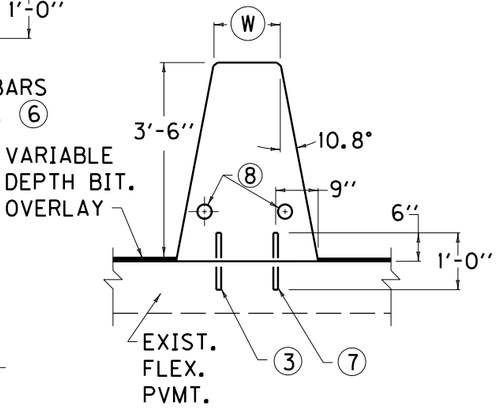
NEW FLEXIBLE PAVEMENT

TYPE 8D, OR 14D



NEW BITUMINOUS OVERLAY OVER EXISTING RIGID PAVEMENT

TYPE 8E, OR 14E



NEW BITUMINOUS OVERLAY OVER EXISTING FLEXIBLE PAVEMENT

~ NOTES ~

THE BID ITEM SHALL BE: CONCRETE BARRIER TYPE ⊕ ⌬ ☆

⊕ 8, OR 14 DEPENDING ON W

⌬ A, B, C, D, OR E DEPENDING ON PAVEMENT TYPE.

☆ 1=SOLID SEGMENT, 2=SEPARATE SEGMENT (SEE DETAIL SHEET).

THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR CONCRETE BARRIER INCLUDING THE BASE IN TYPES A AND C SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

(1) WHEN A CONSTRUCTION JOINT IS USED, DOWEL BARS WILL BE REQUIRED AS SHOWN WITH TYPE 8B, OR 14B BARRIER.

(2) LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS IS REQUIRED AND SHALL BE PLACED AT THE LOCATION SHOWN OR MAY BE INSTALLED AT THE CORRESPONDING POINT ON THE OPPOSITE SIDE OF THE BARRIER, AT THE OPTION OF THE CONTRACTOR. IT SHALL BE REQUIRED ON THE LOW SIDE OF A SUPERELEVATED SECTION.

(3) NO. 8 DOWEL BARS SPACED 4'-0'' O.C. AND STAGGERED 2'-0''.

(4) CONSTRUCTION JOINT PERMITTED WHEN FIXED FORMS OR SLIP FORMS ARE USED.

(5) POLYETHYLENE (6 MILS THICK) BOND BREAKER.

(6) PAVEMENT SHALL BE DRILLED AND BARS GROUTED.

(7) BARS SHALL BE EITHER DRILLED AND GROUTED OR DRIVEN.

(8) 3'' RACEWAY (TYPICAL) SEE ELSEWHERE IN THE PLANS FOR LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.

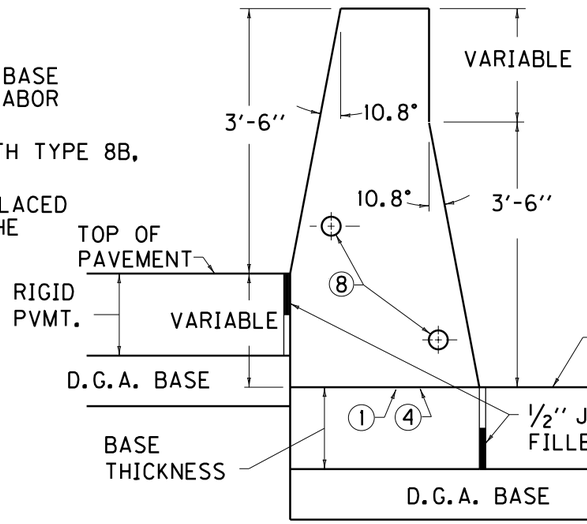
9. CONCRETE BARRIER TYPE 8 SHALL BE USED IN NORMAL INSTALLATIONS. CONCRETE BARRIER TYPE 14 SHALL BE USED WHEN LIGHTING IS REQUIRED.

APPROXIMATE QUANTITIES PER LINEAR FOOT

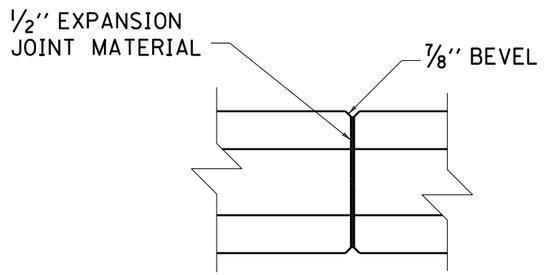
TYPE	CONC. IN CU. YDS. (W)		STEEL IN POUNDS (W)	
	8''	14''	8''	14''
A	0.22	0.30	△ 1.34	△ 1.34
B	0.17	0.24	1.34	1.34
C	0.22	0.30	△ 1.34	△ 1.34
D	0.17	0.24	1.34	0.67
E	0.17	0.24	1.34	1.34

△ WHEN REQUIRED

CONCRETE QUANTITIES SHOWN INCLUDE 8'' BASE THICKNESS FOR TYPE A, AND C BUT DO NOT INCLUDE QUANTITIES NECESSARY FOR BITUMINOUS OVERLAY THICKNESS SHOWN FOR TYPE D AND E.



ASYMMETRICAL WALL SECTION



EXPANSION JOINT DETAIL

KENTUCKY DEPARTMENT OF HIGHWAYS

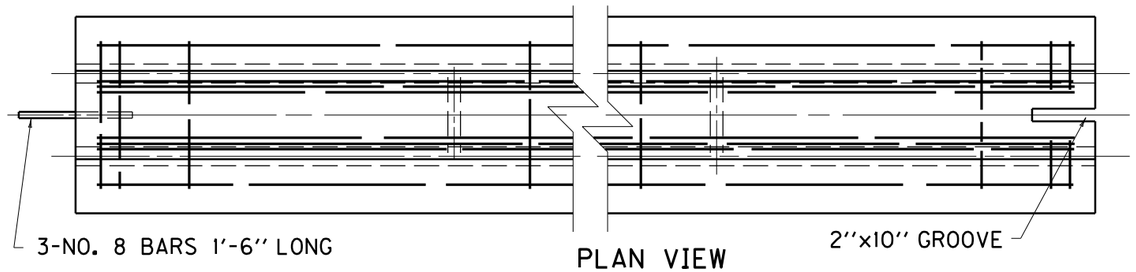
SINGLE SLOPE CONCRETE BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT)

SHEET 1 OF 2

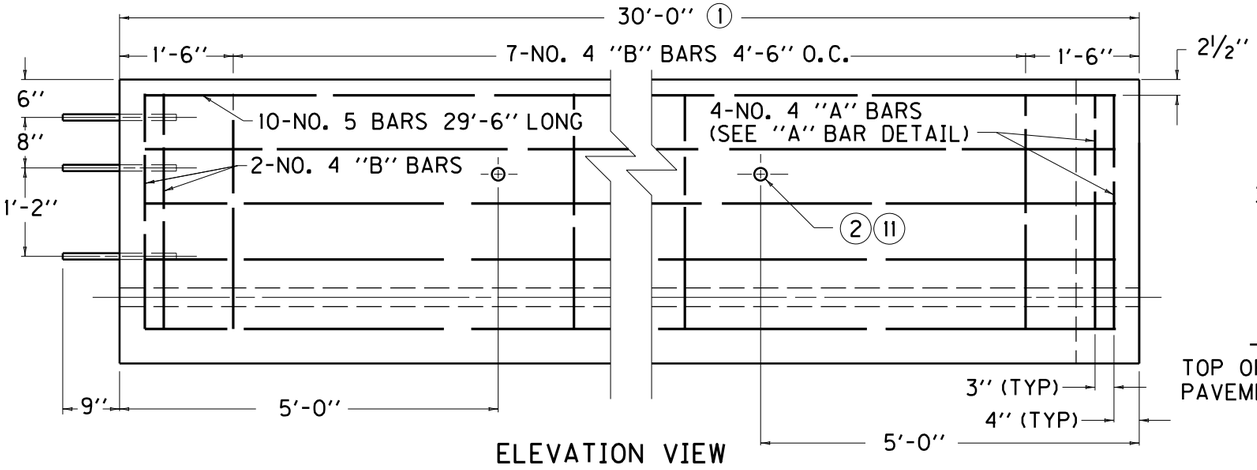
APPROVED _____ DATE _____

SDSTD.SSCB

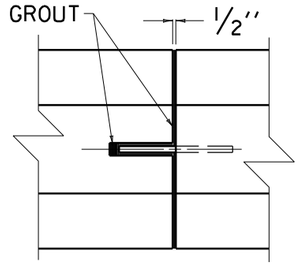
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R90



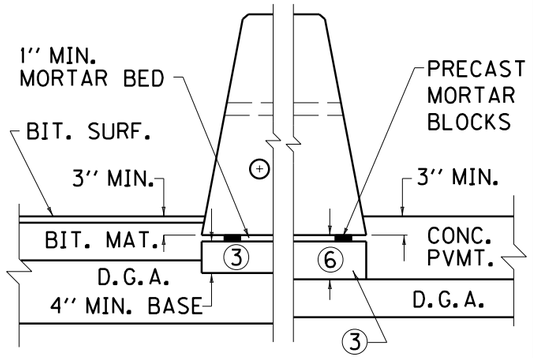
PLAN VIEW



ELEVATION VIEW

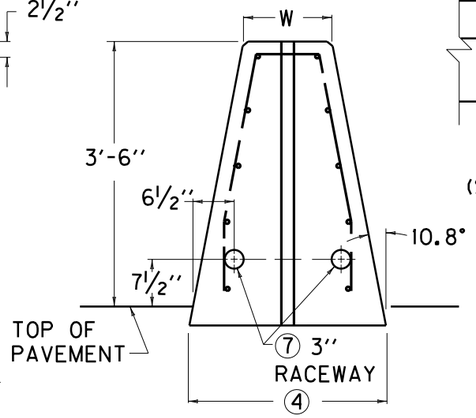


CONNECTION DETAIL



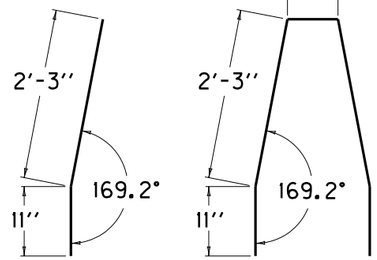
PAVEMENT DETAIL (5)

(SEE RIGHT ELEVATION FOR DIMENSIONS)



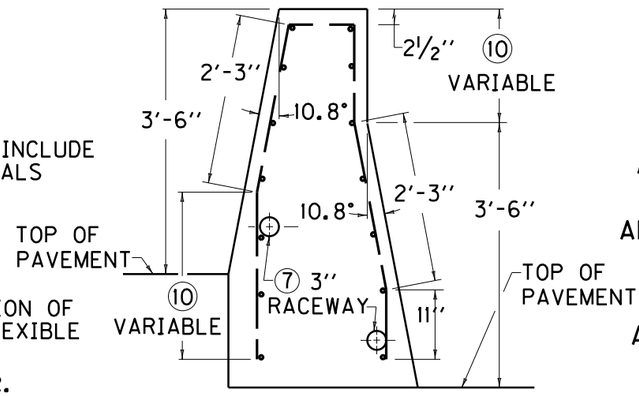
RIGHT ELEVATION VIEW

W MINUS 4''



DETAIL OF ''A'' BAR

DETAIL OF ''B'' BAR



STEEL PLACEMENT FOR
ASYMMETRICAL WALL SECTION

APPROX. REINF./30' SECTION
356 LBS.

APPROX. CU. YD. CONC./LIN. FT.
8'' WIDE TOP = 0.19
14'' WIDE TOP = 0.25

APRROX. WEIGHT/30' SECTION
BASED ON 150 LBS./CU. FT.
8'' WIDE TOP = 11.6 TONS
14'' WIDE TOP = 15.9 TONS

NOTES:

BID ITEM AND UNIT TO BID:
A. CONCRETE BARRIER TYPE ⊕ ⊕ .
⊕ 8 OR 14 DEPENDING ON W.
⊕ A OR C DEPENDING ON PAVEMENT TYPE (SEE DETAIL SHEET).

B. WITH FLEXIBLE PAVEMENT THE CONTRACT UNIT PRICE PER LINEAR FOOT SHALL INCLUDE THE BASE, ALL CONCRETE, LABOR, REINFORCING STEEL AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE PERMANENT INSTALLATION.

C. WITH RIGID PAVEMENT THE CONTRACT UNIT PRICE PER LINEAR FOOT SHALL INCLUDE, THE BASE, ALL CONCRETE, LABOR, REINFORCING STEEL AND ALL OTHER INCIDENTIALS NECESSARY TO COMPLETE THE PERMANENT INSTALLATION.

FOR ILLUSTRATION PURPOSES, THE PAVEMENT DETAIL ABOVE DEPICTS THE INSTALLATION OF A CONCRETE BARRIER (PRECAST) WITH NEW RIGID PAVEMENT ON ONE SIDE AND NEW FLEXIBLE PAVEMENT ON THE OPPOSITE SIDE (SEE PLANS FOR APPLICABLE PAVEMENT DESIGN).

(1) SHORTER SECTIONS MAY BE PERMITTED IF APPROVED IN WRITING BY THE ENGINEER.
(2) 2'' DIA. LIFTING HOLE - 2 REQUIRED EACH SECTION. FORMED WITH 2'' P.V.C. PIPE OR EQUAL.
(3) SEE ELSEWHERE IN THE PLANS FOR BASE REQUIREMENTS.
(4) BASE WIDTH IS VARIABLE DEPENDING UPON OVERALL HEIGHT OF WALL.
(5) OTHER METHODS OF ANCHORAGE WILL BE ACCEPTABLE IF APPROVED IN WRITING BY THE ENGINEER.
(6) PAVEMENT THICKNESS MINUS 3''.
(7) THE RACEWAY SHALL BE TIED TO EACH OF THE ''A'' AND ''B'' BARS TO PREVENT SAG.
8. PLACE ALL STEEL REINFORCEMENT A CLEAR DISTANCE OF 2'' MIN. FROM OUTSIDE FACE OF WALL, EXCEPT WHERE SHOWN OTHERWISE.
9. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO MANUFACTURE.
(10) WHEN THIS DIMENSION EQUALS 3'-0'' ONE ADDITIONAL LONGITUDINAL BAR SHALL BE ADDED ON EACH SIDE. FOR EACH 9'' INCREMENT ABOVE 3'-0'' ONE ADDITIONAL LONGITUDINAL BAR SHALL BE ADDED ON EACH SIDE.
(11) LIFTING BARS SHALL BE REQUIRED TO PREVENT SPALDING OF CONCRETE AROUND HOLES.
12. WHEN THE PRECAST WALL IS USED IN PERMANENT CONSTRUCTION THE LIFTING HOLES SHALL BE FILLED WITH GROUT.

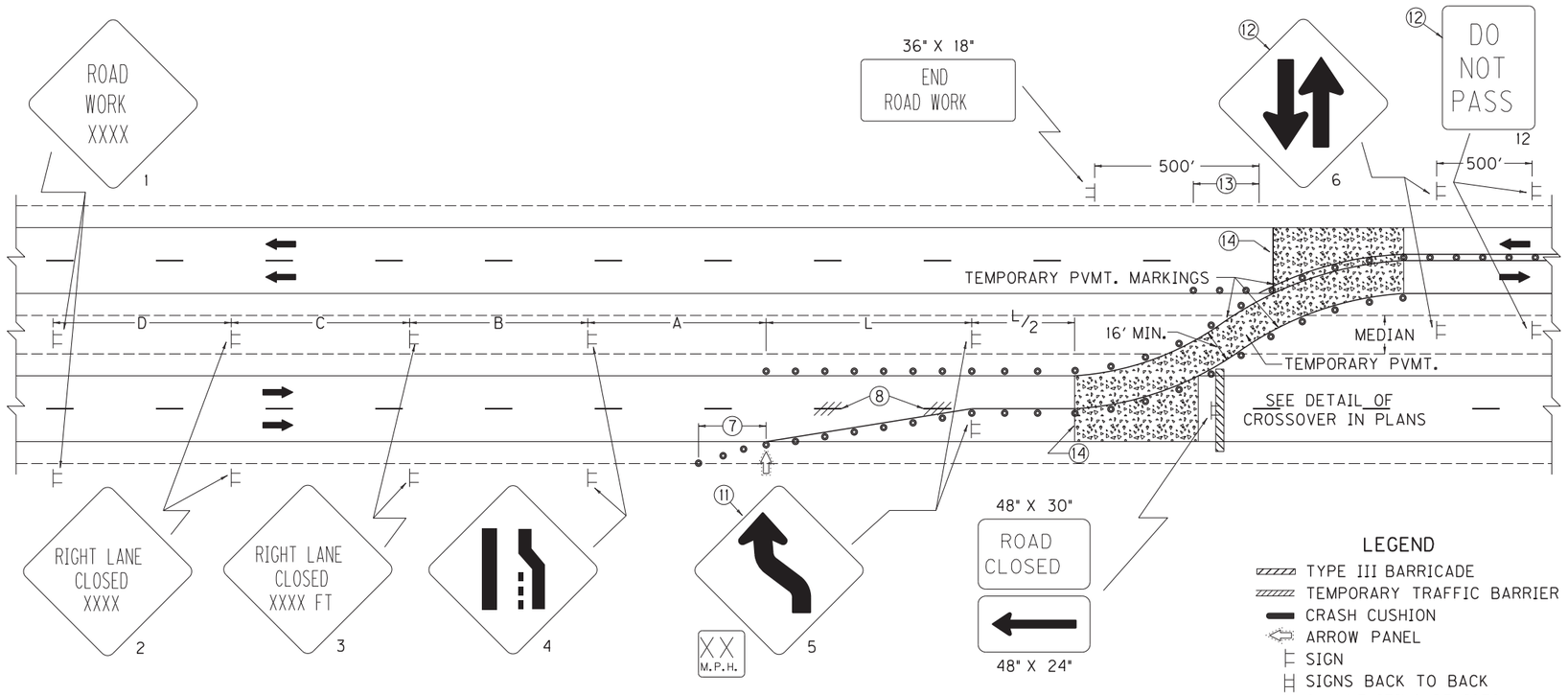
KENTUCKY
DEPARTMENT OF HIGHWAYS

SINGLE SLOPE CONCRETE BARRIER PRECAST (PERMANENT)

SHEET 2 OF 2

APPROVED _____ DATE _____

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	90A



LEGEND

- TYPE III BARRICADE
- TEMPORARY TRAFFIC BARRIER
- CRASH CUSHION
- ARROW PANEL
- SIGN
- SIGNS BACK TO BACK
- CHANNELIZING DEVICES
  - TEMP. TRAFFIC BARRIER
  - DRUMS
  - VERTICAL PANELS
  - TUBULAR MARKERS

1. THE SIZE OF SIGNS 1 THRU 11 SHALL BE 48" X 48" IF THE NORMAL POSTED SPEED LIMIT IS 45 MPH OR GREATER. OTHERWISE, 36" X 36" SIGNS MAY BE USED. THE SIZE OF SIGNS 12 AND 13 SHALL BE 36" X 48" IF THE NORMAL POSTED SPEED LIMIT IS 45 MPH OR GREATER. OTHERWISE, 24" X 30" SIGNS MAY BE USED.
2. THE ADVISORY SPEED LIMIT ON SIGNS 5 AND 7 SHALL BE DETERMINED BY THE ENGINEER.
3. SPACING OF CHANNELIZING DEVICES THRU THE TAPER AREAS SHOULD BE 40'. SPACING OF DEVICES THRU THE REMAINDER OF THE CLOSURE SHOULD BE 80'.
4. ARROW PANELS SHALL BE LOCATED ON THE SHOULDERS AT THE BEGINNING OF THE MERGING TAPERS OR LOCATED IN THE CLOSED LANE BEHIND CHANNELIZING DEVICES WHEN SHOULDERS ARE NARROW.
5. TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED AND MAINTAINED ON THE ROADWAY THROUGHOUT THE LIMITS OF THE CROSSOVER.

DRAWING NOT TO SCALE

USE WITH CURRENT STD. DWGS. TTC-146, TTD-110, AND TTC-160

APPLICATION

THIS DRAWING APPLIES TO A MEDIAN CROSSOVER ON MULTI-LANE HIGHWAYS WITH A MEDIAN WIDTH GREATER THAN 10 FEET.

(CONTINUED ON CURRENT STD. DWG. TTC-146)

SIGNING AND SPACING TABLE					
ROAD TYPE	A	B	C	D	L
EXPRESSWAY/ FREEWAY	1000'	500'	1100'	2600'	840'
SP. LT. ≥ 45 MPH*	500'	500'	500'	1100'	680'
SP. LT. ≤ 40 MPH*	250'	250'	500'	500'	320'

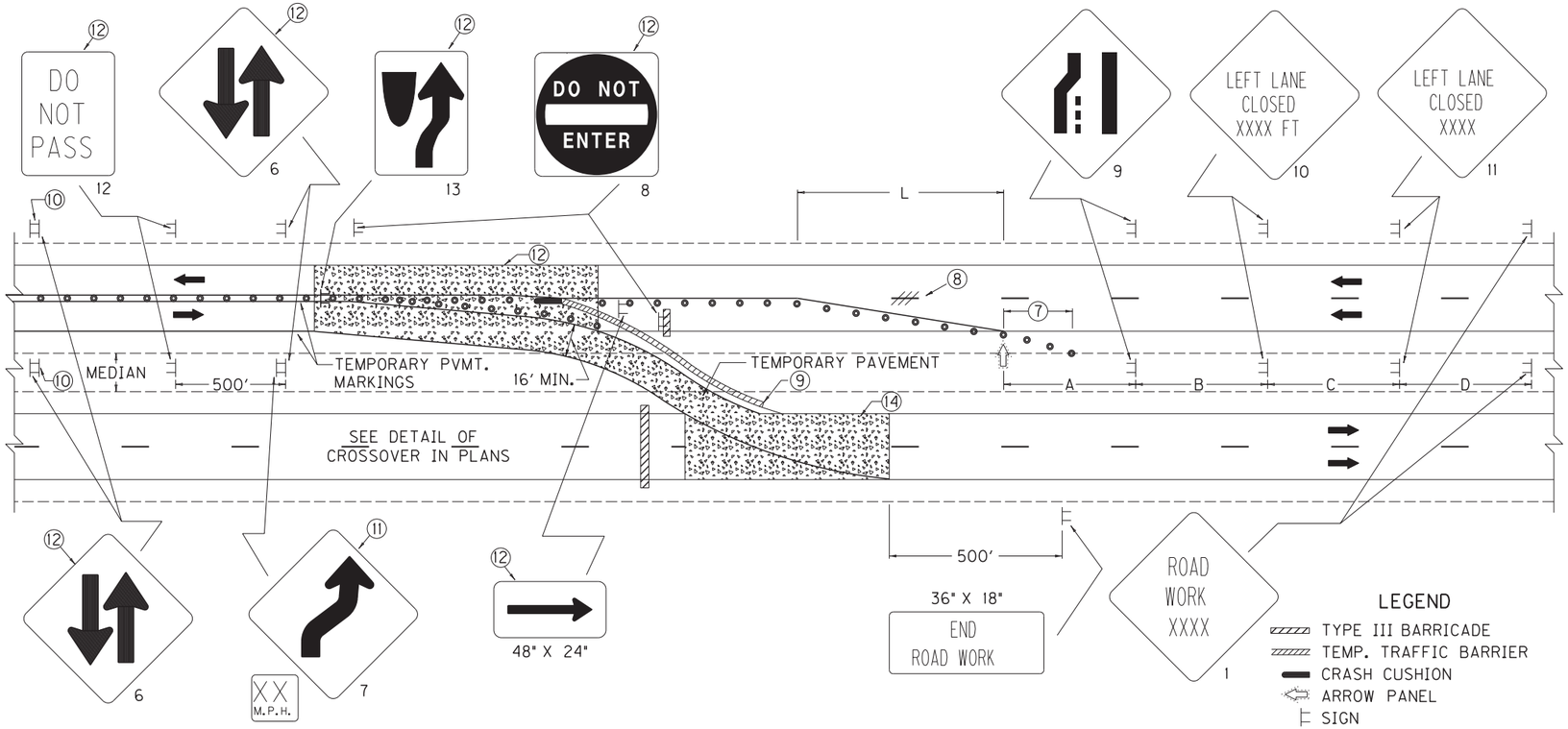
*NOTE: USE NORMAL POSTED SPEED LIMIT

NOT TO SCALE

KDOT STD- DWG- TTC-145
TEMPORARY CROSSOVER DETAIL

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\DETAIL 90A TTC145.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	90B



LEGEND

- TYPE III BARRICADE
- TEMP. TRAFFIC BARRIER
- CRASH CUSHION
- ARROW PANEL
- SIGN
- SIGNS BACK TO BACK
- CHANNELIZING DEVICES
  - TEMP. TRAFFIC BARRIER
  - DRUMS
  - VERTICAL PANELS
  - TUBULAR MARKERS

DRAWING NOT TO SCALE

USE WITH CURRENT STD. DWGS. TTC-145, TTD-110, AND TTC-160

(CONTINUED FROM CURRENT STD. DWG. TTC-145)

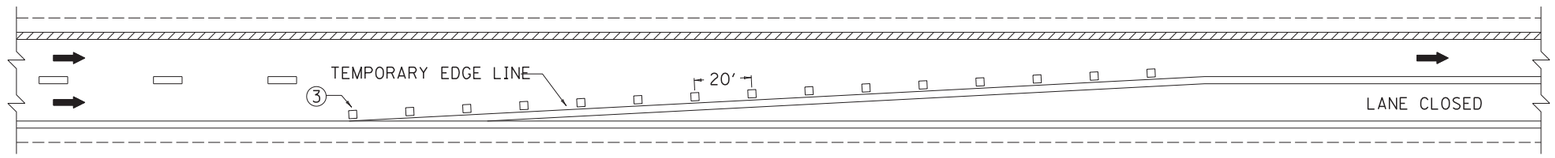
6. CRASH CUSHION SHALL BE INSTALLED PARALLEL TO THE APPROACH LANE OF TRAFFIC.
(7) IF AN ARROW PANEL IS INSTALLED ON THE SHOULDER OR WITHIN THE CLEAR ZONE, A SHOULDER TAPER SHALL BE REQUIRED. TAPER LENGTH SHALL BE 0.33 L. SPACING OF CHANNELIZING DEVICES THRU THE SHOULDER TAPER SHOULD BE 40'.
(8) OBLITERATE SKIP LINES THRU THE LENGTH OF TAPERS BY APPROVED METHOD. OTHER CONFLICTING PAVEMENT MARKINGS SHALL BE OBLITERATED.
(9) CRASH CUSHION SHALL BE REQUIRED WHEN THE END OF THE BARRIER WALL IS WITHIN CLEAR ZONE (REFER TO ROADSIDE DESIGN GUIDE).
(10) WHEN CHANNELIZING DEVICES ARE USED TO SEPARATE OPPOSING TRAFFIC, TWO-WAY TRAFFIC SIGN(S) SHALL BE REPEATED EVERY MILE.
(11) REVERSE TURN SIGN (W1-3) SHALL BE USED IN LIEU OF REVERSE CURVE SIGN WHEN THE ADVISORY SPEED IS 30 MPH OR LESS.
(12) WHEN TEMPORARY TRAFFIC BARRIER IS CONTINUOUS THROUGHOUT THE CLOSURE ZONE, THESE SIGNS SHALL BE ELIMINATED.
(13) CHANNELIZING DEVICES SHALL BE EXTENDED BEYOND THE TRANSITION AREA FOR A DISTANCE EQUAL TO TWO TIMES THE NORMAL POSTED SPEED LIMIT.
(14) THIN ASPHALT OVERLAY TO BE USED AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

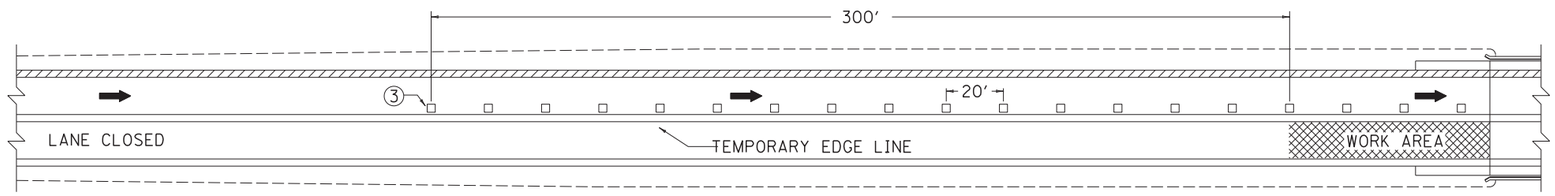
KDOT STD. DWG TTC-146-02
TEMPORARY CROSSOVER
DETAIL

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\DETAIL 90B TTC146.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R90C



ARRANGEMENT ''A'' ①



ARRANGEMENT ''B'' ②

APPLICATION

THIS DRAWING APPLIES TO LANE CLOSURE TRANSITIONS OR CASES WHERE DELINEATION IS DESIRABLE WITHIN LANE CLOSURES ON MULTI-LANE HIGHWAYS. THE DRAWINGS DEPICT LANE CLOSURES IN THE OUTSIDE LANE. WHEN THE INSIDE LANE IS CLOSED, THE SAME PRINCIPLES APPLY, EXCEPT MONO-DIRECTIONAL (YELLOW) MARKERS SHALL BE USED. BI-DIRECTIONAL MARKERS, (WHITE-RED) OR (YELLOW-RED), MAY BE USED IN LIEU OF MONO-DIRECTIONAL MARKERS IF RED FACE WILL NOT BE VISIBLE TO OPPOSING TRAFFIC IN THEIR NORMAL TRAVEL LANE.

THIS STANDARD DRAWING SHALL BE USED IN CONJUNCTION WITH THE APPROPRIATE STANDARD DRAWING FOR THE LANE CLOSURE.

LEGEND

- TYPE IVA MONO-DIRECTIONAL (WHITE)
- MARKINGS (YELLOW)
- MARKINGS (WHITE)

DRAWING NOT TO SCALE

GENERAL NOTES

① ARRANGEMENT ''A'' SHALL BE APPLIED WHEN THE LANE CLOSURE IS TO BE IN EFFECT AT THE SAME LOCATION FOR FOUR (4) DAYS OR GREATER AND THE EXISTING ADT IS 5,000 OR GREATER.

② ARRANGEMENT ''B'' SHALL BE APPLIED WHEN THE EXISTING PAVEMENT HAS BEEN REMOVED ADJACENT TO TRAFFIC (INCLUDING BRIDGE ENDS AND OTHER SPOT IMPROVEMENTS).

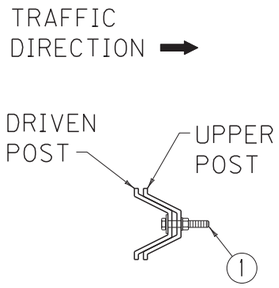
③ MARKERS INSTALLED ALONG EDGE LINES SHALL BE PLACED SO THAT THE NEAR EDGE OF THE CASTING IS NO MORE THAN 1" FROM THE NEAR EDGE OF THE LINE.

NOT TO SCALE

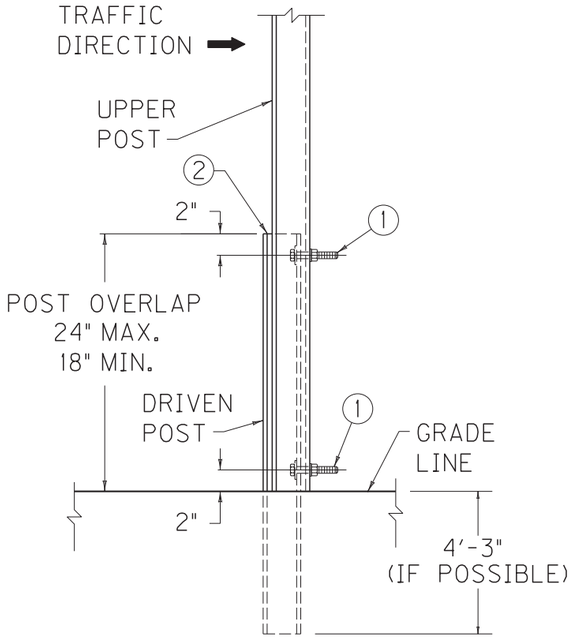
KDOT STD. DWG. TTC-160-01
TEMPORARY CROSSOVER
DETAIL

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\DETAIL 90C TTC160.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	90D



TOP VIEW



SIDE ELEVATION

APPLICATION

PREFERABLY, SIGN POSTS ARE NOT TO BE SPLICED. HOWEVER, TO OBTAIN THE REQUIRED HEIGHT, SIGN POSTS MAY BE SPLICED ONCE IN THEIR LENGTH AND ACCORDING TO THIS STANDARD DRAWING.

DRAWING NOT TO SCALE

GENERAL NOTES

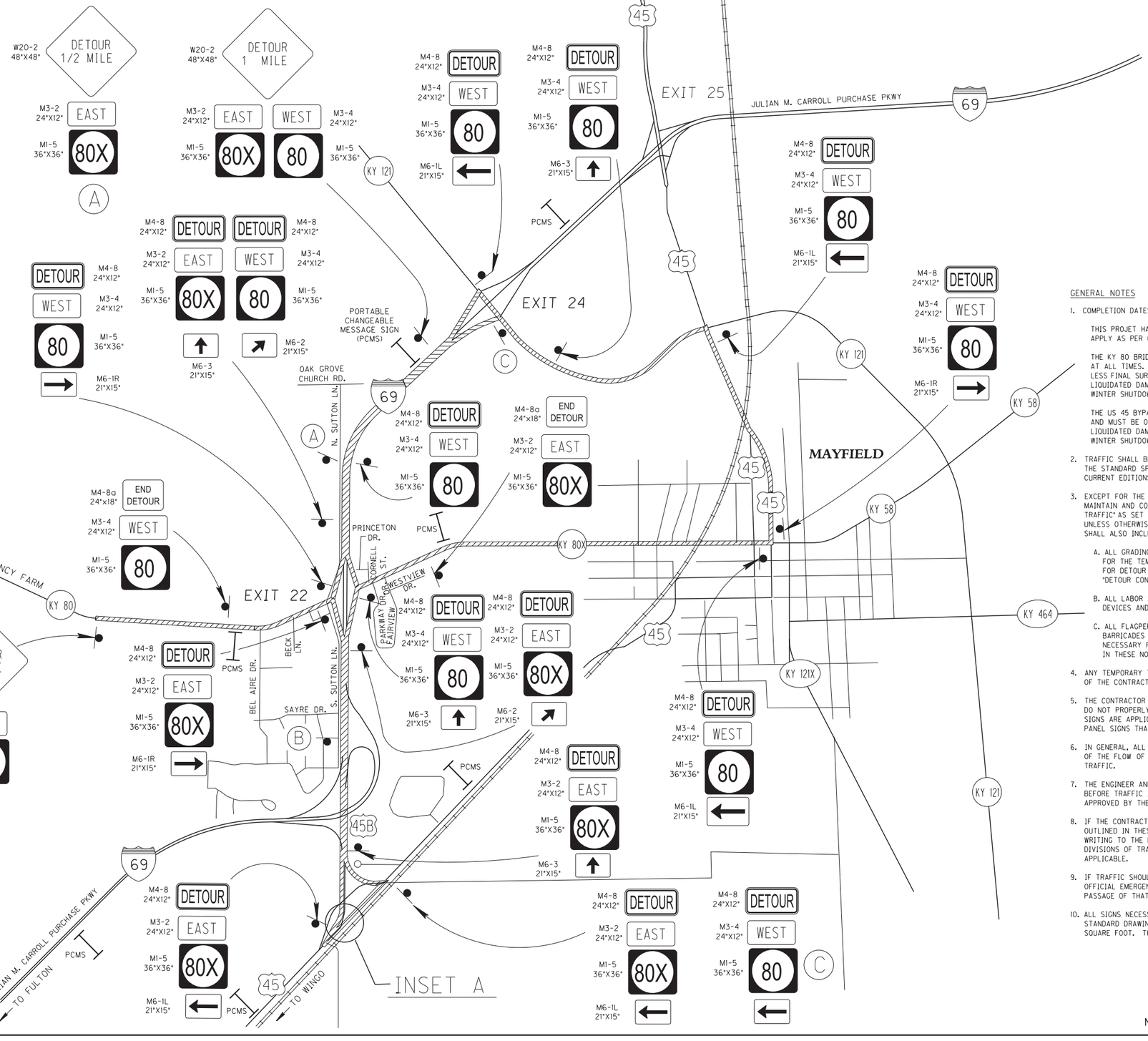
(1) TWO (2) 5/16" X 2" HEX HEAD CAP SCREWS, TWO (2) ROUND WASHERS, TWO (2) LOCK WASHERS AND TWO HEX HEAD NUTS (ASTM A307).
(2) THE DRIVEN POST STUB SHALL BE REMOVED WHEN THE UPPER POST IS NOT IN PLACE.

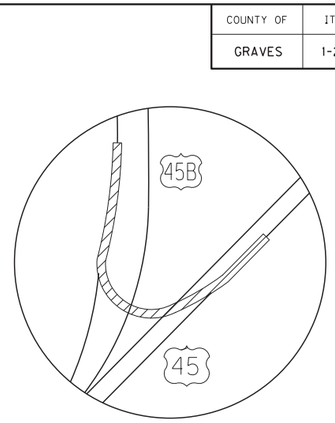
KDOT STD DWG TTD-110-01
TEMPORARY CROSSOVER
DETAIL

Power InRoads v8.11.9.578
E-SHEET NAME:
USER: mlane
DATE PLOTTED: July 30, 2015
FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\DETAIL 90D TTD110.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	91

PROPOSED DETOUR





INSET A

GENERAL NOTES

1. COMPLETION DATES

   THIS PROJET HAS A FIXED COMPLETION DATE OF JULY 1, 2018 AND STANDARD LIQUIDATED DAMAGES WILL APPLY AS PER CURRENT KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

   THE KY 80 BRIDGE CAN BE CLOSED FOR CONSTRUCTION BEGINNING MARCH 1, 2016. RAMPS WILL REMAIN OPEN AT ALL TIMES. CONSTRUCTION OF KY 80, KY 80 RAMPS, AND APPROACHES ALONG KY 80 SHALL BE TO FINAL GRADE LESS FINAL SURFACE AND MUST BE COMPLETED BY JUNE 30, 2016. CONTRARY TO THE STANDARD SPECIFICATIONS, LIQUIDATED DAMAGES WILL BE CHARGED IN THE AMOUNT OF $10,000 PER DAY AND WILL BE CHARGED DURING THE WINTER SHUTDOWN PERIOD.

   THE US 45 BYPASS (SECTION FROM US 45 TO KY 80) CAN BE CLOSED FOR CONSTRUCTION BEGINNING APRIL 1, 2017 AND MUST BE OPEN TO TWO-WAY TRAFFIC BY NOVEMBER 30, 2017. CONTRARY TO THE STANDARD SPECIFICATIONS, LIQUIDATED DAMAGES WILL BE CHARGED IN THE AMOUNT OF $10,000 PER DAY AND WILL BE CHARGED DURING THE WINTER SHUTDOWN PERIOD.

2. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.

3. 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" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:

   A. ALL GRADING AND NECESSARY DRAINAGE (UNLESS A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED) FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF, WHEN IT IS NO LONGER NEEDED. IF A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED, GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID ITEM "DETOUR CONSTRUCTION".

   B. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.

   C. ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.

4. ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.

5. THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED. A "CLOSED" DESIGNATION PLATE WILL BE INSTALLED ON ANY EXISTING PANEL SIGNS THAT ARE NOT RELATIVE TO THE PHASING.

6. IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.

7. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.

8. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.

9. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.

10. ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR BY THE SQUARE FOOT. THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.

KY 80 WEST DETOUR LENGTH IS 5.50 MILES
KY 80 EAST DETOUR LENGTH IS 4.0 MILES

NOT TO SCALE

KY 80 DETOUR
BRIDGE CLOSURE

FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\KY 80 DETOUR.DGN
USER: mlane
DATE PLOTTED: July 30, 2015
E-SHEET NAME:
Power InRoads v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	92

GENERAL NOTES

1. COMPLETION DATES

   THIS PROJET HAS A FIXED COMPLETION DATE OF JULY 1, 2018 AND STANDARD LIQUIDATED DAMAGES WILL APPLY AS PER CURRENT KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

   THE US 45 BYPASS (SECTION FROM US 45 TO KY 80) CAN BE CLOSED FOR CONSTRUCTION BEGINNING APRIL 1, 2017 AND MUST BE OPEN TO TWO-WAY TRAFFIC BY NOVEMBER 30, 2017. CONTRARY TO THE STANDARD SPECIFICATIONS, LIQUIDATED DAMAGES WILL BE CHARGED IN THE AMOUNT OF $10,000 PER DAY AND WILL BE CHARGED DURING THE WINTER SHUTDOWN PERIOD.

2. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.

2. 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" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:

   A. ALL GRADING AND NECESSARY DRAINAGE (UNLESS A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED) FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF, WHEN IT IS NO LONGER NEEDED. IF A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED, GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID ITEM "DETOUR CONSTRUCTION".

   B. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.

   C. ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.

3. ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.

4. THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED. A "CLOSED" DESIGNATION PLATE SHALL BE INSTALLED ON ANY EXISTING PANEL SIGNS THAT ARE NOT RELATIVE TO THE TRAFFIC PHASING.

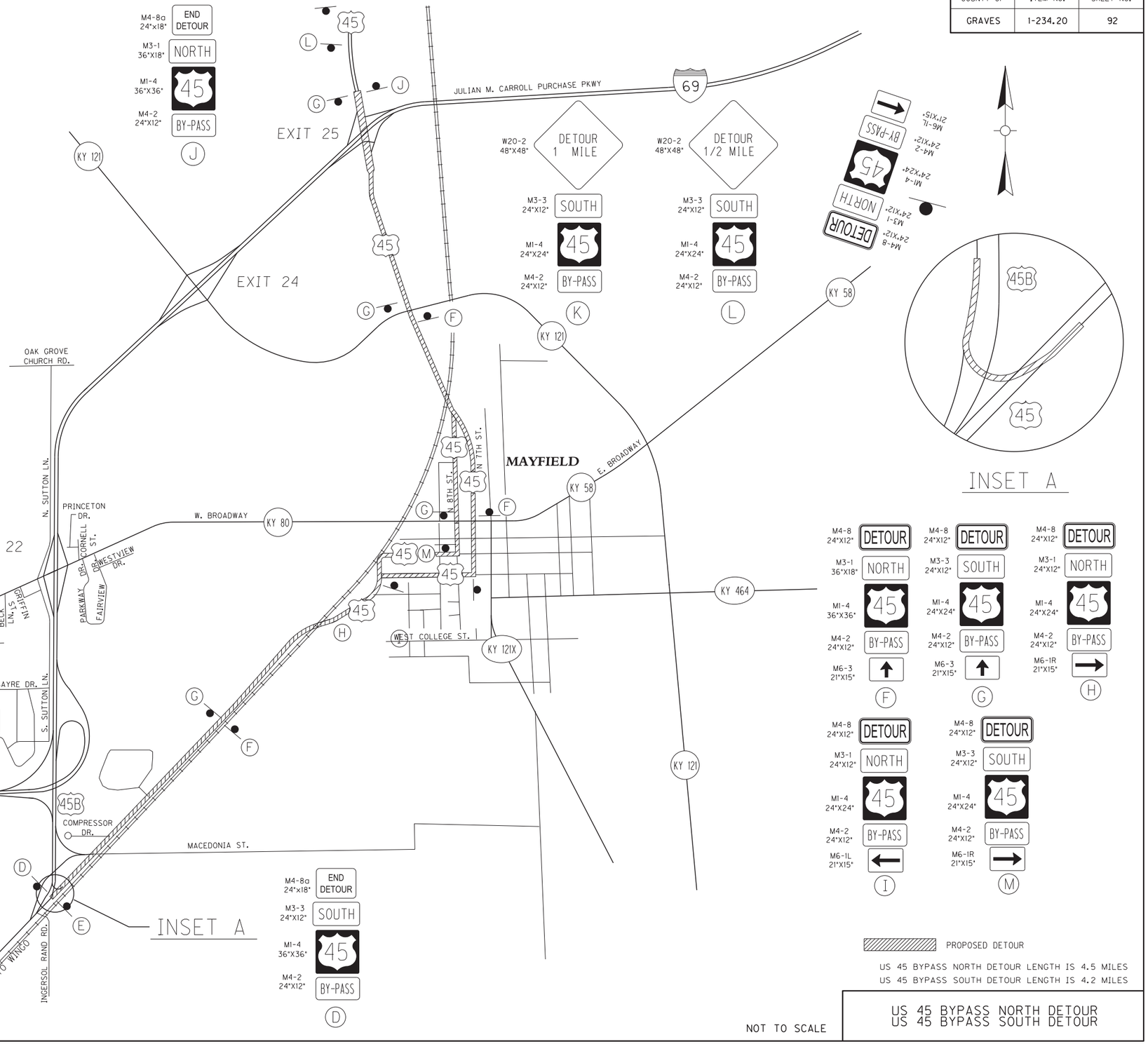
5. IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.

6. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.

7. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.

8. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.

9. ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR BY THE SQUARE FOOT. THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.



INSET A

PROPOSED DETOUR

US 45 BYPASS NORTH DETOUR LENGTH IS 4.5 MILES
US 45 BYPASS SOUTH DETOUR LENGTH IS 4.2 MILES

NOT TO SCALE

US 45 BYPASS NORTH DETOUR
US 45 BYPASS SOUTH DETOUR

FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\KY 45 DETOUR.DGN
USER: mlane
DATE PLOTTED: July 30, 2015
E-SHEET NAME:
Power InRoads v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	93

Maintenance of Traffic Notes
Phase 1

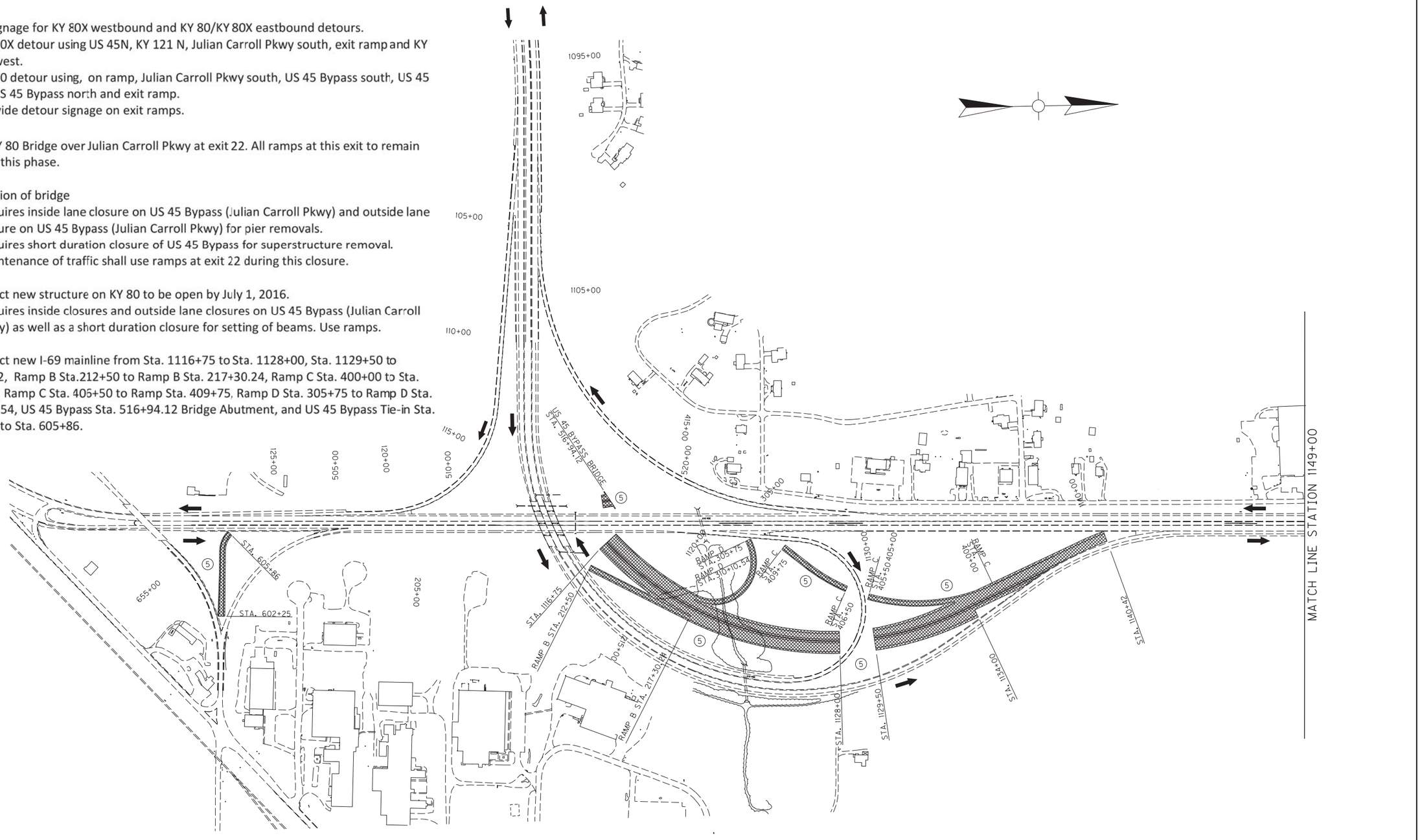
1. Erect signage for KY 80X westbound and KY 80/KY 80X eastbound detours.
   a) KY 80X detour using US 45N, KY 121 N, Julian Carroll Pkwy south, exit ramp and KY 80 west.
   b) KY 80 detour using, on ramp, Julian Carroll Pkwy south, US 45 Bypass south, US 45 N, US 45 Bypass north and exit ramp.
   c) Provide detour signage on exit ramps.

2. Close KY 80 Bridge over Julian Carroll Pkwy at exit 22. All ramps at this exit to remain open in this phase.

3. Demolition of bridge
   a) Requires inside lane closure on US 45 Bypass (Julian Carroll Pkwy) and outside lane closure on US 45 Bypass (Julian Carroll Pkwy) for pier removals.
   b) Requires short duration closure of US 45 Bypass for superstructure removal. Maintenance of traffic shall use ramps at exit 22 during this closure.

4. Construct new structure on KY 80 to be open by July 1, 2016.
   a) Requires inside closures and outside lane closures on US 45 Bypass (Julian Carroll Pkwy) as well as a short duration closure for setting of beams. Use ramps.

5. Construct new I-69 mainline from Sta. 1116+75 to Sta. 1128+00, Sta. 1129+50 to 1140+42, Ramp B Sta.212+50 to Ramp B Sta. 217+30.24, Ramp C Sta. 400+00 to Sta. 405+50, Ramp C Sta. 405+50 to Ramp Sta. 409+75, Ramp D Sta. 305+75 to Ramp D Sta. 310+10.54, US 45 Bypass Sta. 516+94.12 Bridge Abutment, and US 45 Bypass Tie-in Sta. 602+25 to Sta. 605+86.

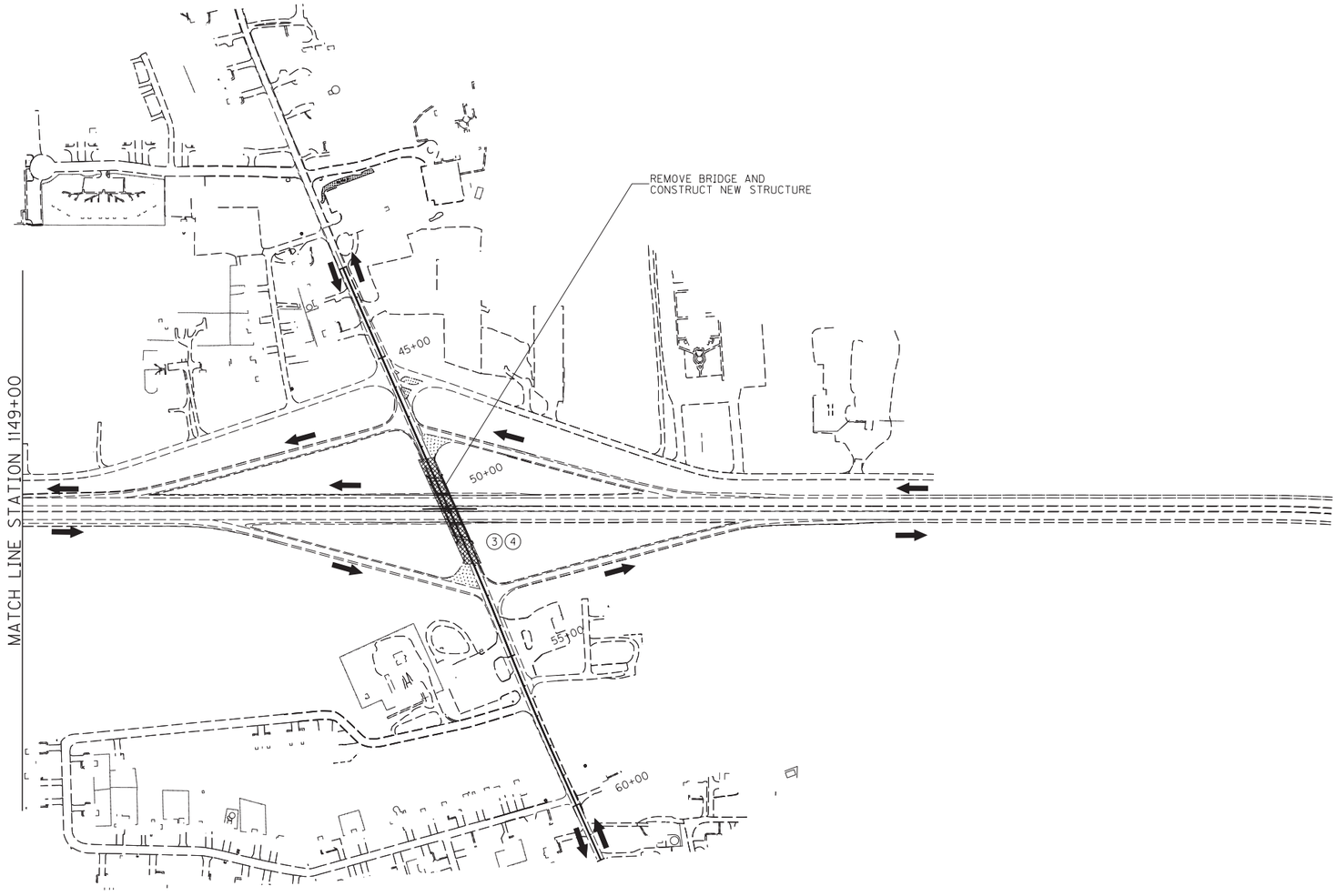


SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 1

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane | DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 1.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	94



CONSTRUCTION THIS PHASE
CONSTRUCT NEW BRIDGE THIS PHASE

TRAFFIC ON EXISTING LANES

SCALE: 1"=200'

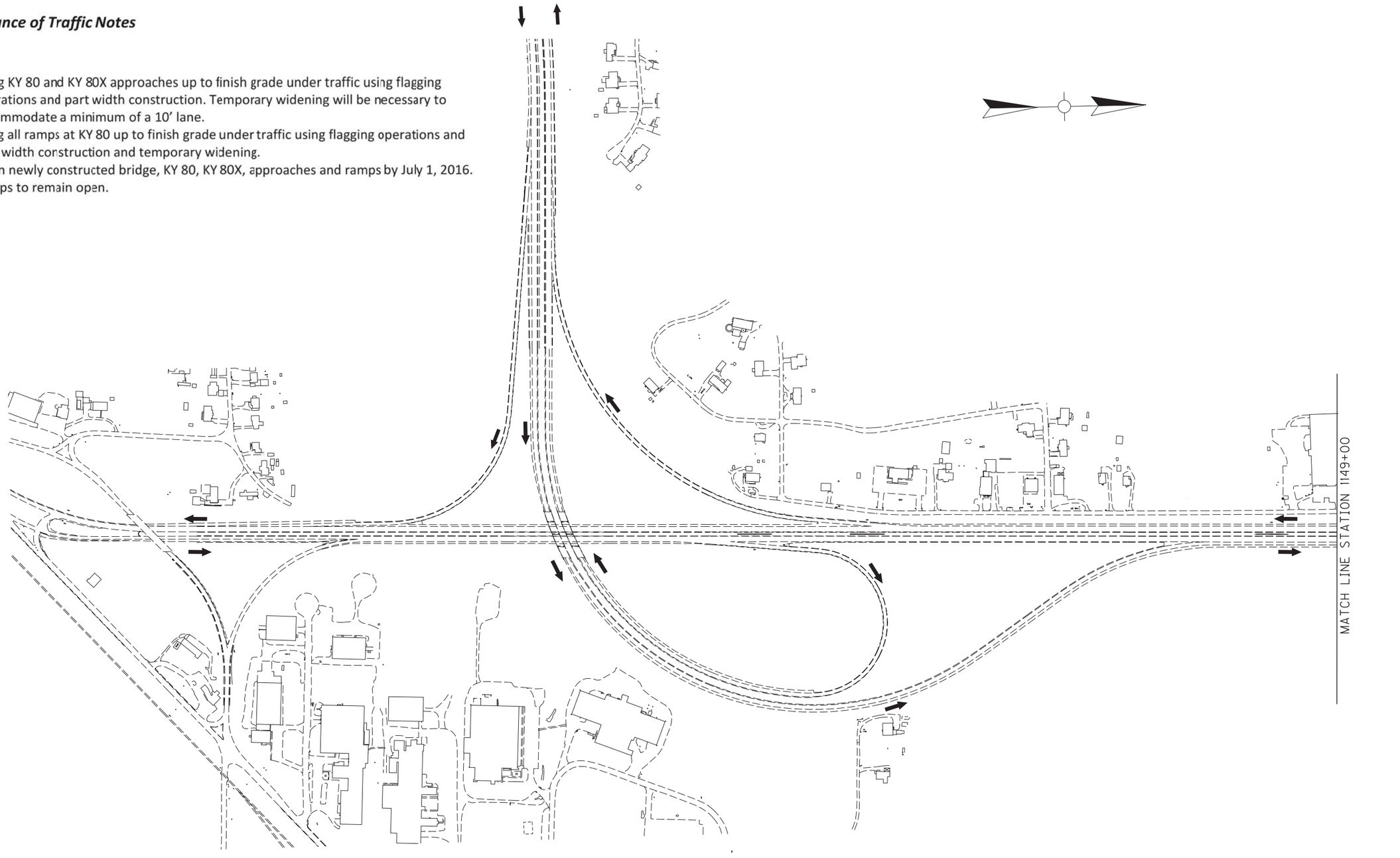
MAINTENANCE OF TRAFFIC
PHASE 1

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane
DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 1A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	95

Maintenance of Traffic Notes
Phase 2

1. Bring KY 80 and KY 80X approaches up to finish grade under traffic using flagging operations and part width construction. Temporary widening will be necessary to accommodate a minimum of a 10' lane.
2. Bring all ramps at KY 80 up to finish grade under traffic using flagging operations and part width construction and temporary widening.
3. Open newly constructed bridge, KY 80, KY 80X, approaches and ramps by July 1, 2016.
4. Ramps to remain open.



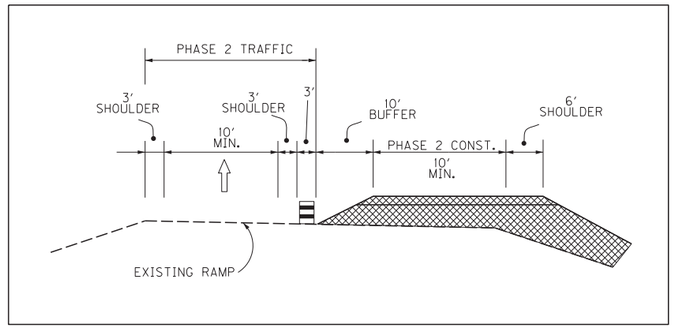
SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 2

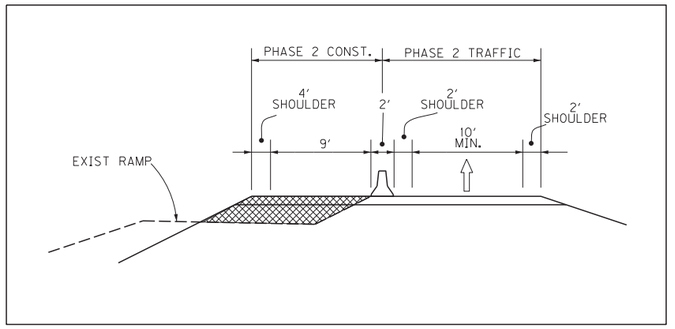
Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane | DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 2.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	96

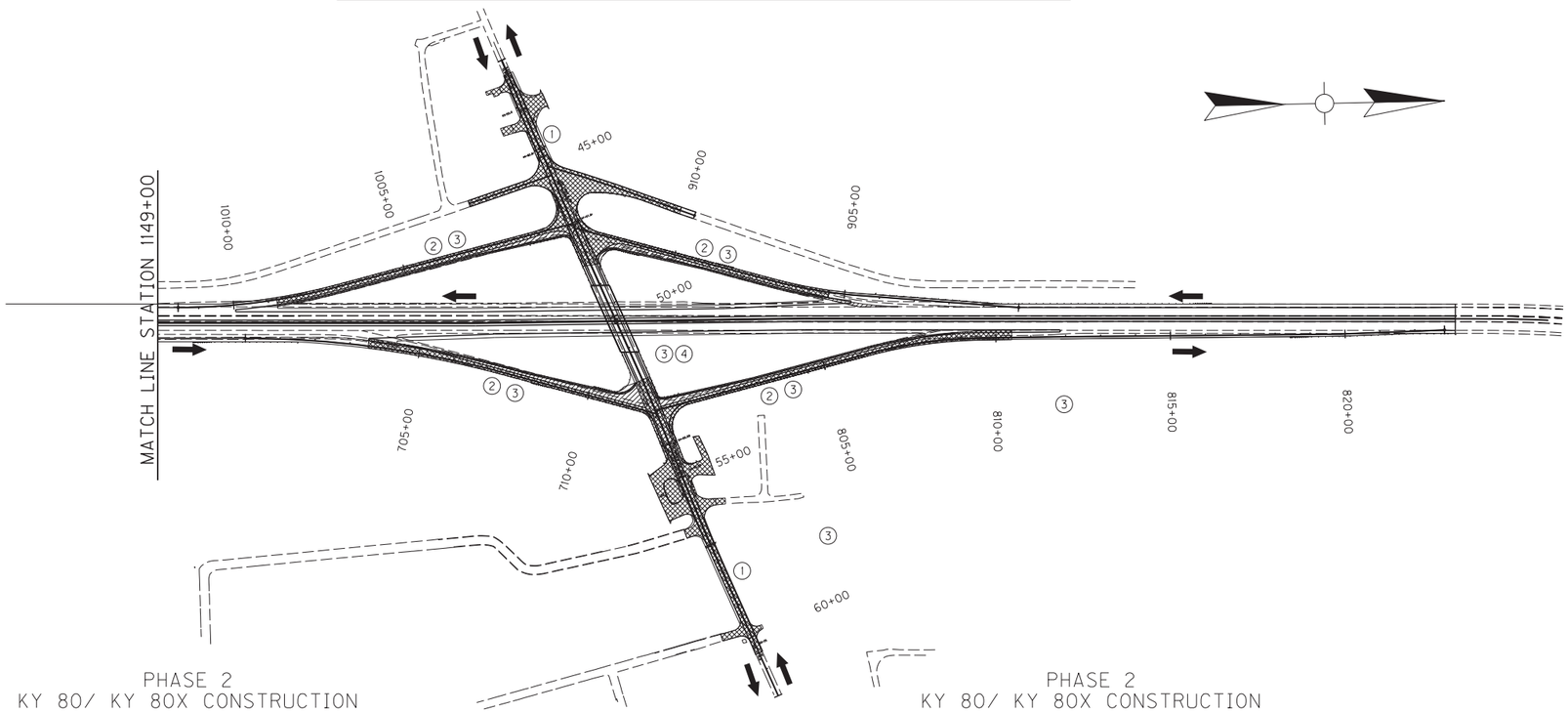
TYPICAL SECTION - PHASE 2 RAMP CONSTRUCTION STAGE 1



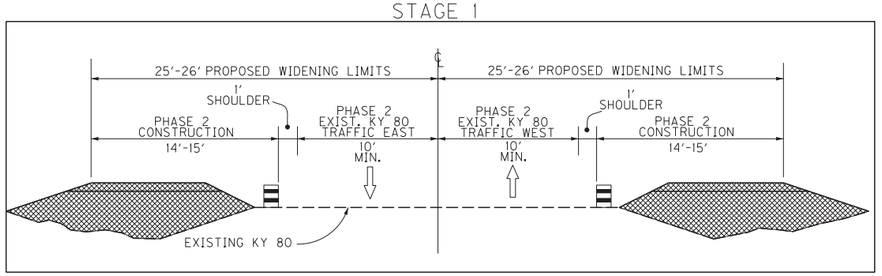
TYPICAL SECTION - PHASE 2 RAMP CONSTRUCTION STAGE 2



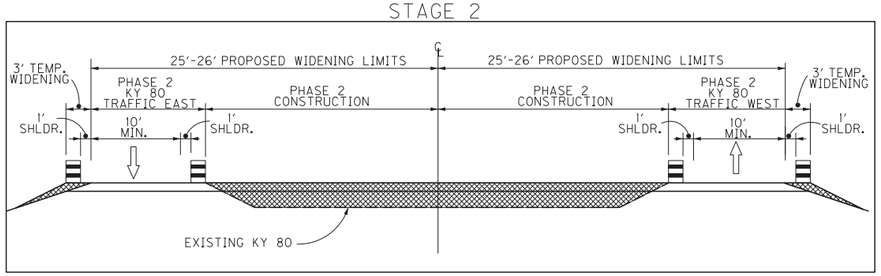
CONSTRUCTION STAGING FOR ALL RAMPS



PHASE 2 KY 80/ KY 80X CONSTRUCTION STAGE 1



PHASE 2 KY 80/ KY 80X CONSTRUCTION STAGE 2



CONSTRUCTION THIS PHASE

TRAFFIC ON EXISTING LANES

CONSTRUCTION STAGING FOR KY 80/KY80X

SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 2

Power InRoads v8.11.9.578
E-SHEET NAME:
USER: mlane
DATE PLOTTED: July 30, 2015
FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 2A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	97

Maintenance of Traffic Notes
Phase 3

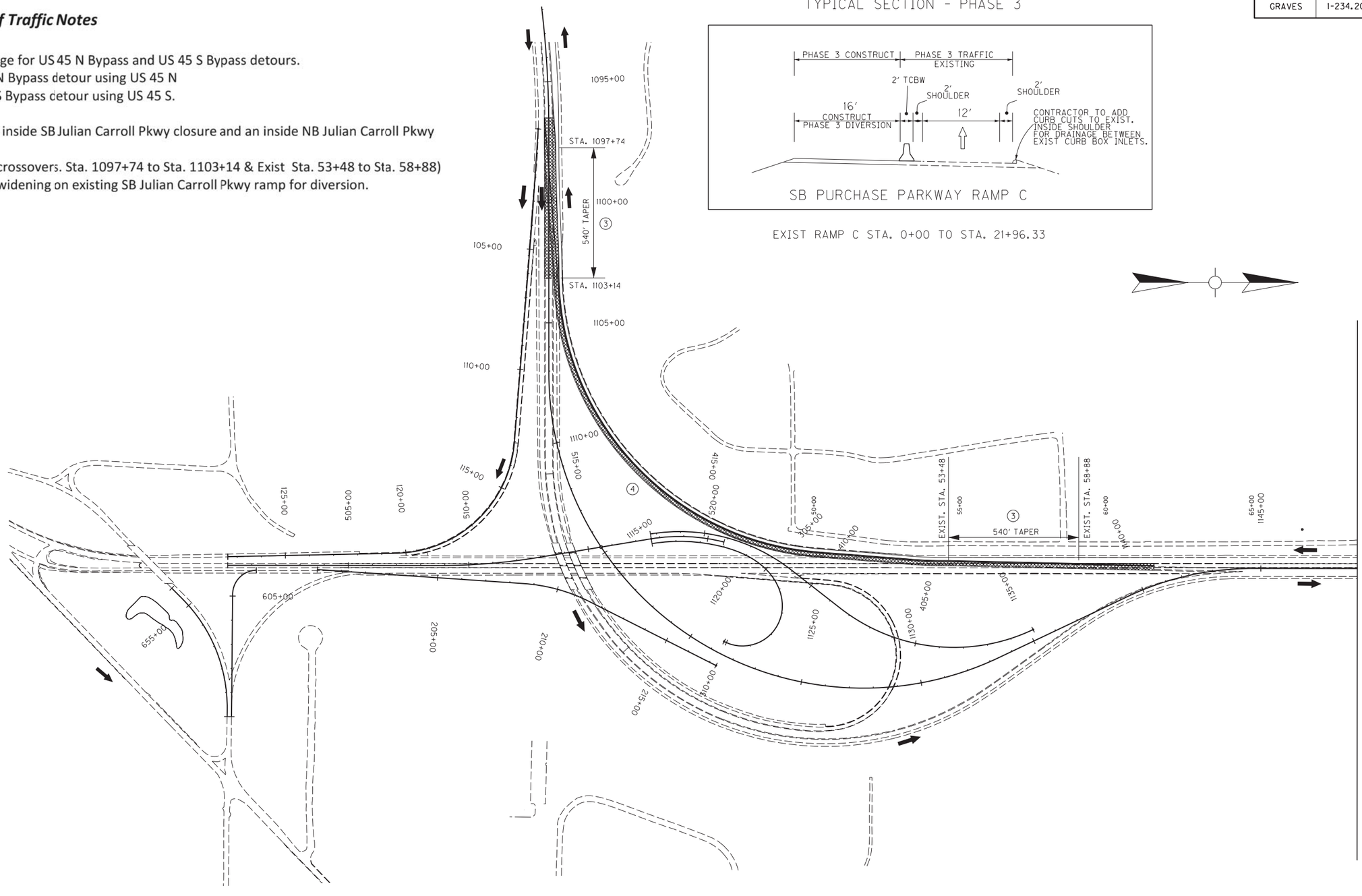
1. Erect signage for US 45 N Bypass and US 45 S Bypass detours.
   a) US 45 N Bypass detour using US 45 N
   b) US 45 S Bypass detour using US 45 S.

2. Provide an inside SB Julian Carroll Pkwy closure and an inside NB Julian Carroll Pkwy closure.
3. Construct crossovers. Sta. 1097+74 to Sta. 1103+14 & Exist Sta. 53+48 to Sta. 58+88)
4. Construct widening on existing SB Julian Carroll Pkwy ramp for diversion.

TYPICAL SECTION - PHASE 3

SB PURCHASE PARKWAY RAMP C

EXIST RAMP C STA. 0+00 TO STA. 21+96.33



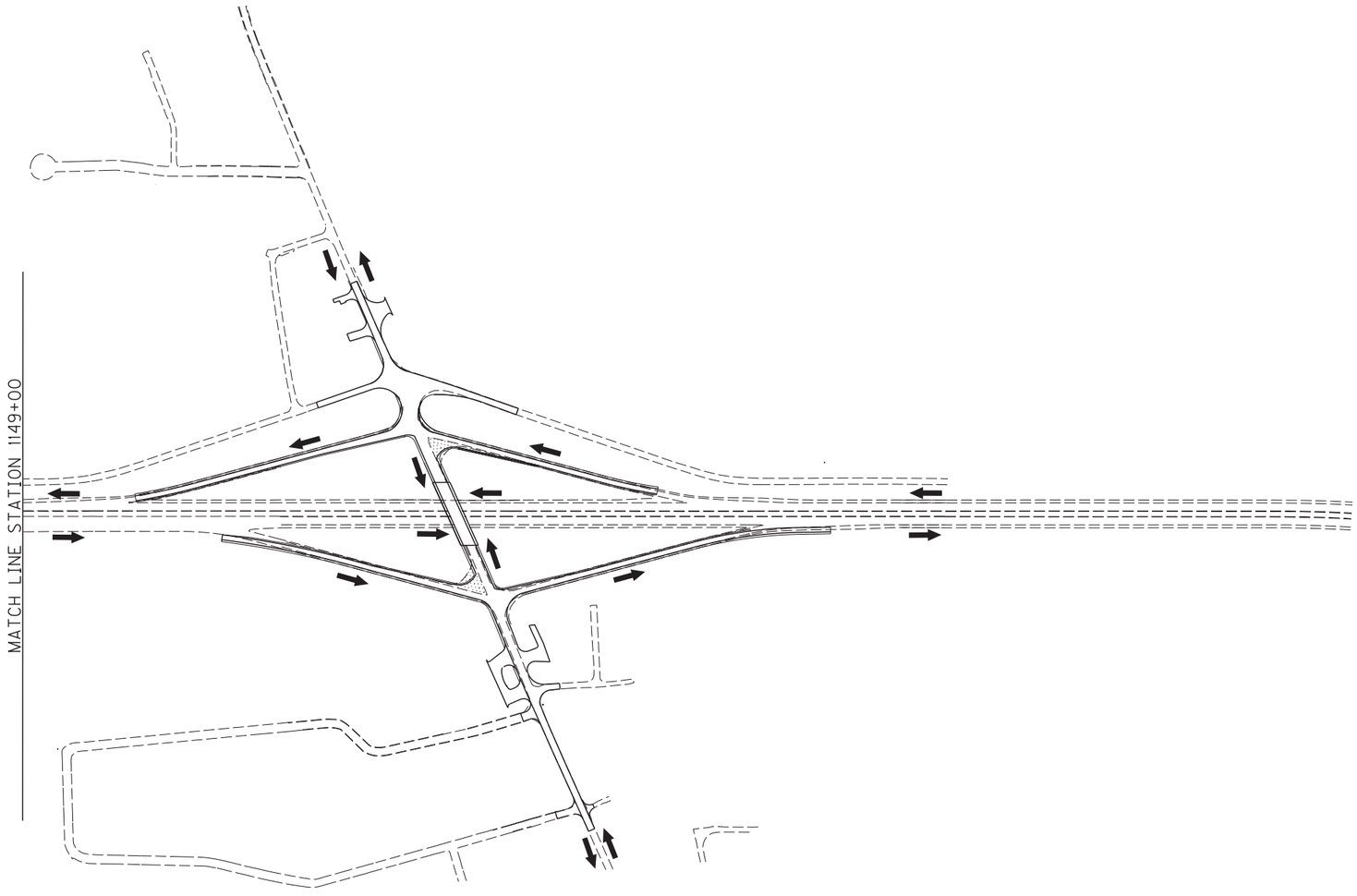
CONSTRUCTION THIS PHASE

SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 3

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 3.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	98



SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 3

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 3A.DGN

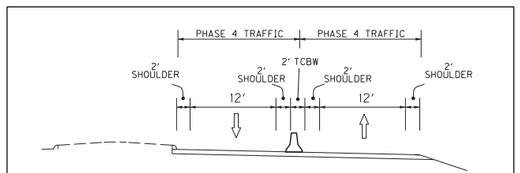
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	99

Maintenance of Traffic Notes
Phase 4

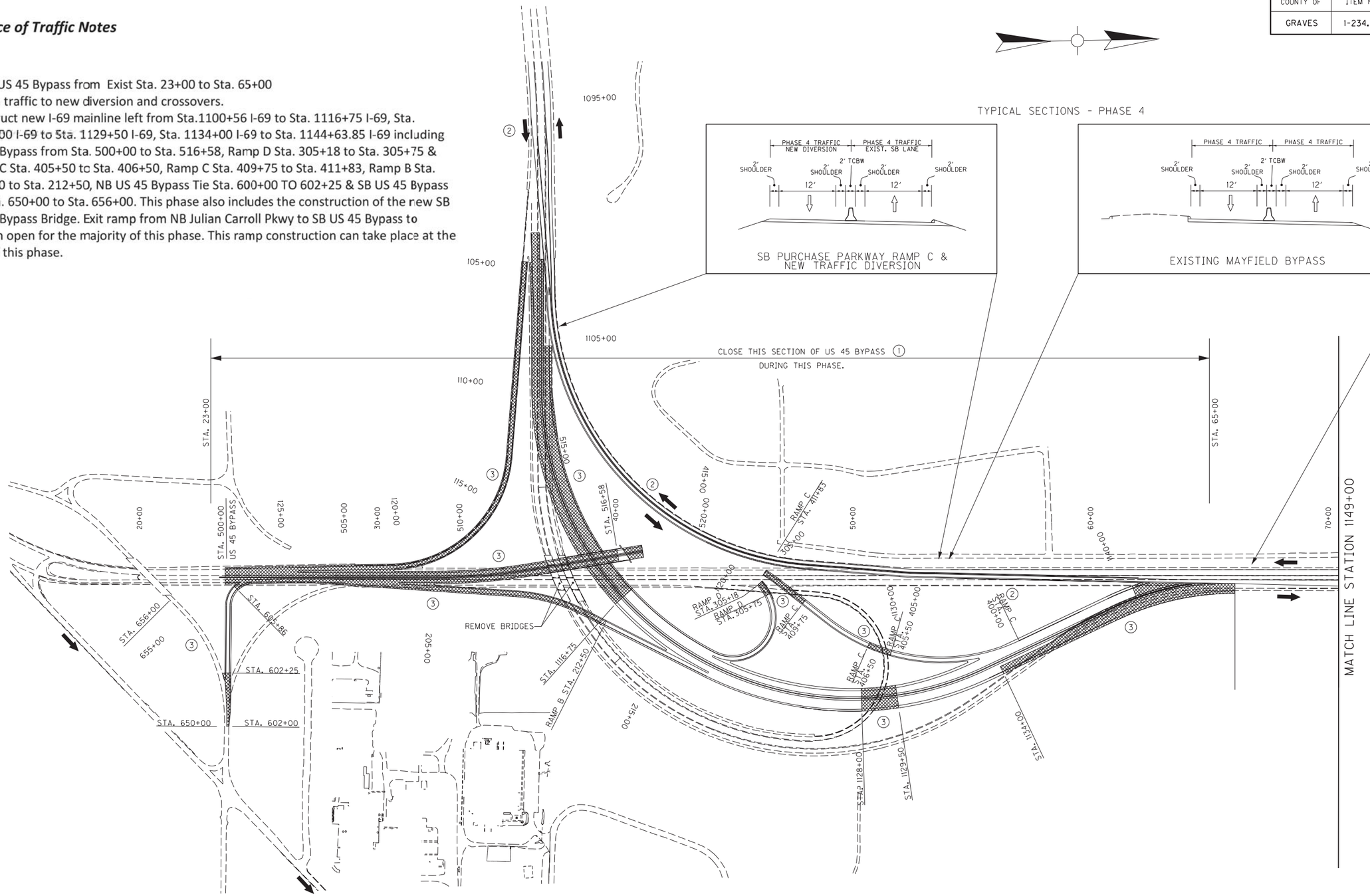
1. Close US 45 Bypass from Exist Sta. 23+00 to Sta. 65+00
2. Switch traffic to new diversion and crossovers.
3. Construct new I-69 mainline left from Sta.1100+56 I-69 to Sta. 1116+75 I-69, Sta. 1128+00 I-69 to Sta. 1129+50 I-69, Sta. 1134+00 I-69 to Sta. 1144+63.85 I-69 including US 45 Bypass from Sta. 500+00 to Sta. 516+58, Ramp D Sta. 305+18 to Sta. 305+75 & Ramp C Sta. 405+50 to Sta. 406+50, Ramp C Sta. 409+75 to Sta. 411+83, Ramp B Sta. 200+00 to Sta. 212+50, NB US 45 Bypass Tie Sta. 600+00 TO 602+25 & SB US 45 Bypass Tie Sta. 650+00 to Sta. 656+00. This phase also includes the construction of the new SB US 45 Bypass Bridge. Exit ramp from NB Julian Carroll Pkwy to SB US 45 Bypass to remain open for the majority of this phase. This ramp construction can take place at the end of this phase.

TYPICAL SECTIONS - PHASE 4

SB PURCHASE PARKWAY RAMP C & NEW TRAFFIC DIVERSION



EXISTING MAYFIELD BYPASS



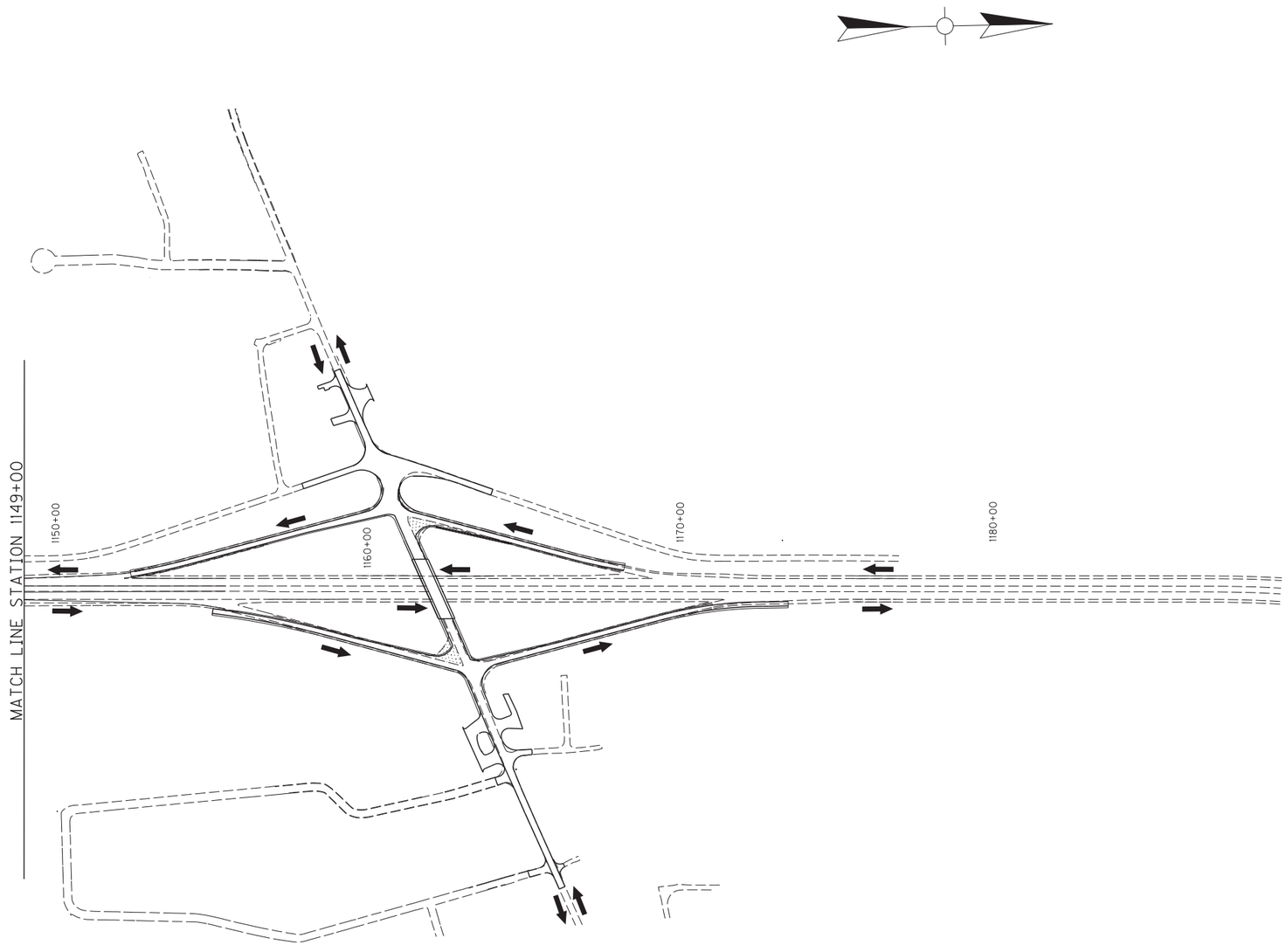
CONSTRUCTION THIS PHASE

SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 4

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 4.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	100



SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 4

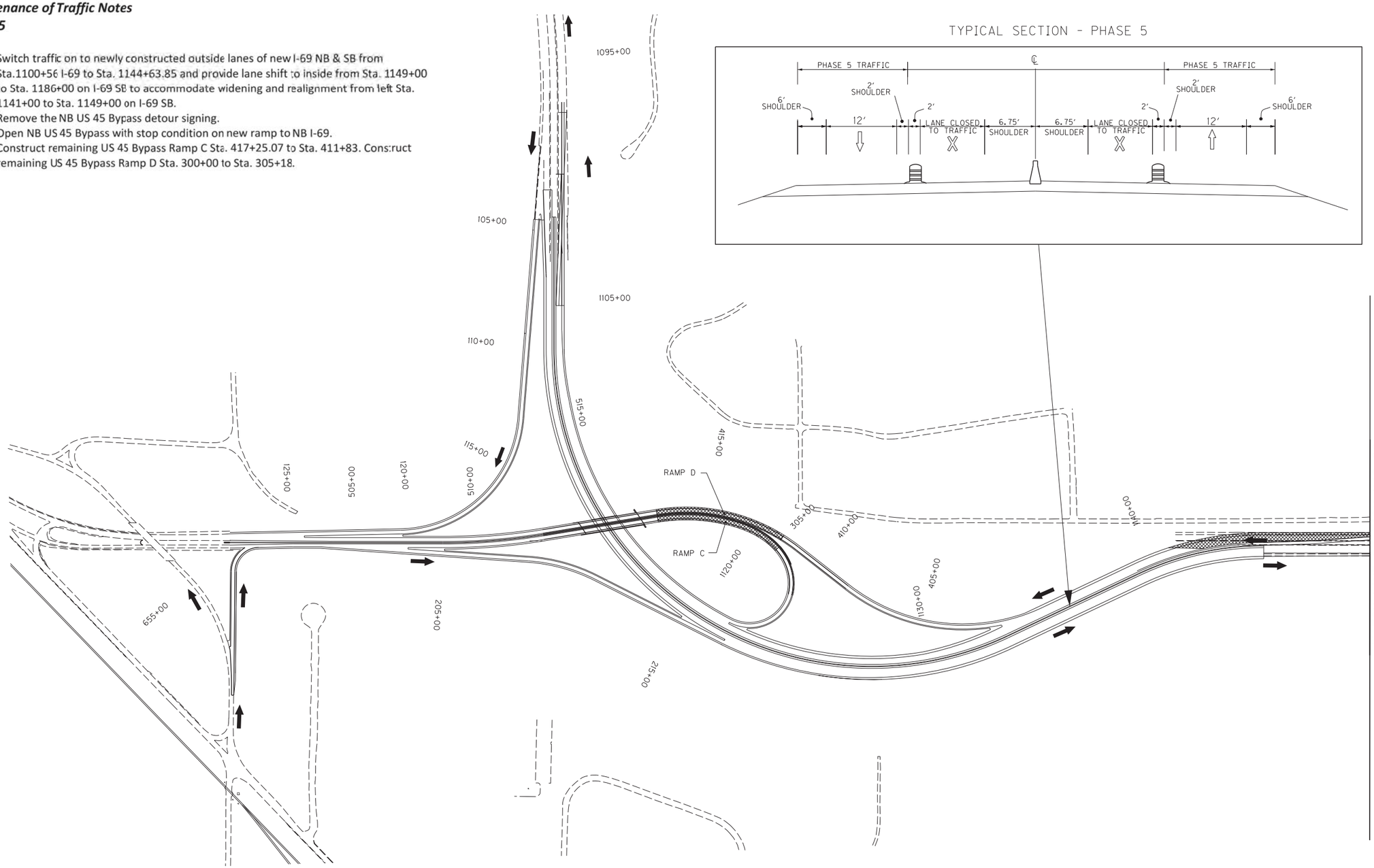
Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane
DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 4A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	101

Maintenance of Traffic Notes
Phase 5

1. Switch traffic on to newly constructed outside lanes of new I-69 NB & SB from Sta.1100+56 I-69 to Sta. 1144+63.85 and provide lane shift to inside from Sta. 1149+00 to Sta. 1186+00 on I-69 SB to accommodate widening and realignment from left Sta. 1141+00 to Sta. 1149+00 on I-69 SB.
2. Remove the NB US 45 Bypass detour signing.
3. Open NB US 45 Bypass with stop condition on new ramp to NB I-69.
4. Construct remaining US 45 Bypass Ramp C Sta. 417+25.07 to Sta. 411+83. Construct remaining US 45 Bypass Ramp D Sta. 300+00 to Sta. 305+18.

TYPICAL SECTION - PHASE 5



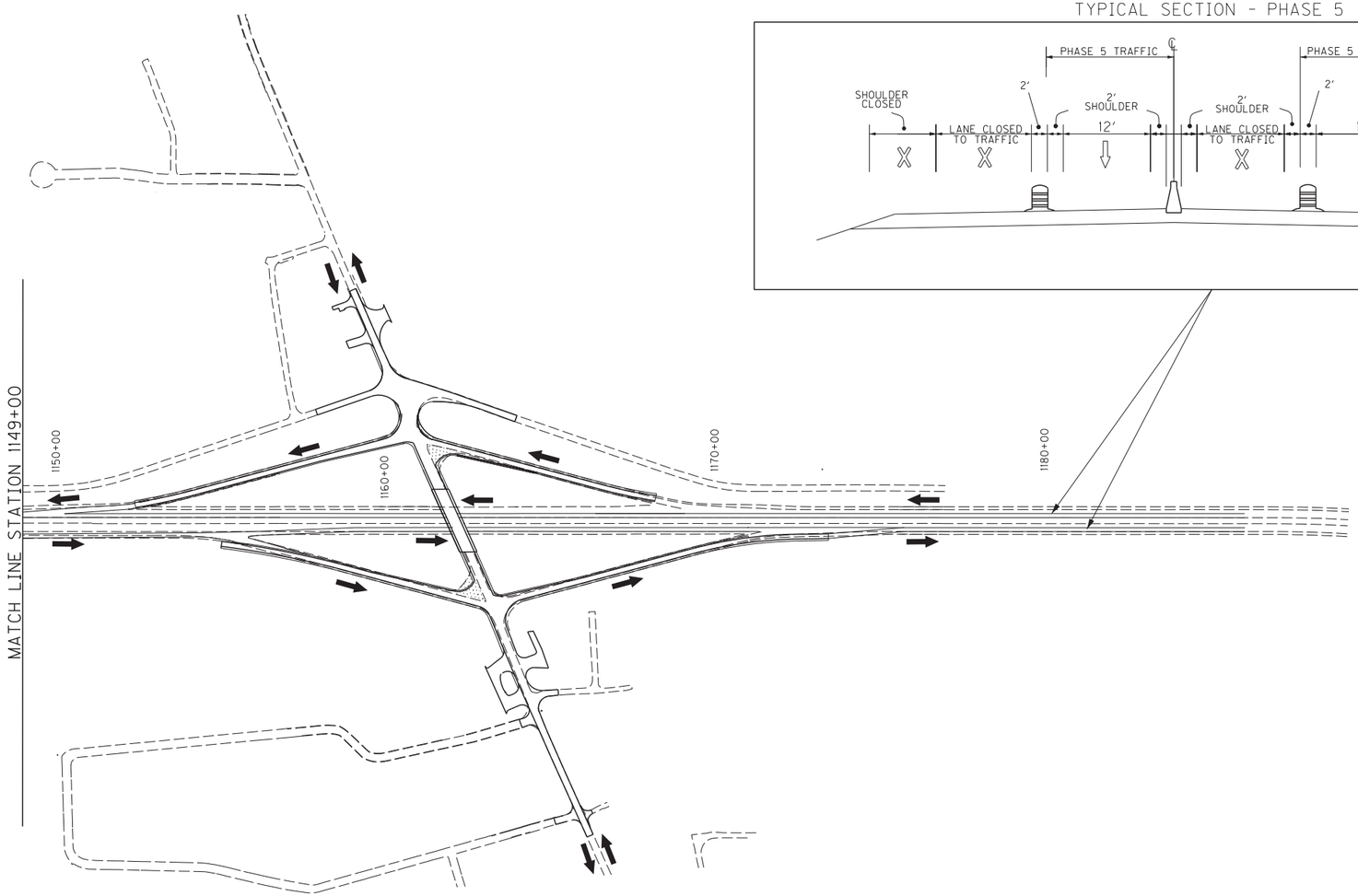
CONSTRUCTION THIS PHASE

SCALE: 1"=200′

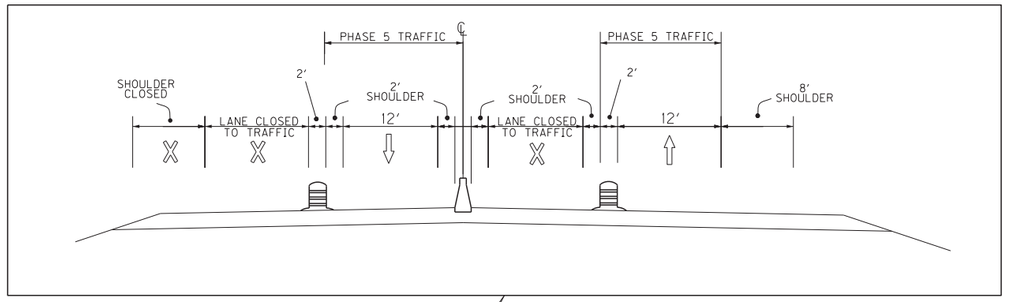
MAINTENANCE OF TRAFFIC
PHASE 5

FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 5.DGN
USER: mlane
DATE PLOTTED: July 30, 2015
E-SHEET NAME:
Power InRoads v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	102



TYPICAL SECTION - PHASE 5



SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 5

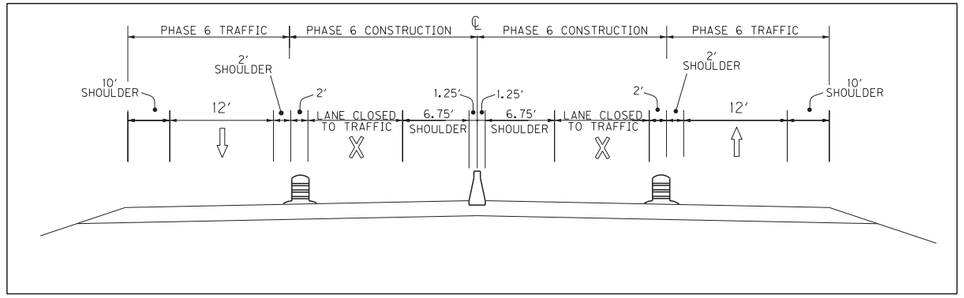
Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 5A.DGN

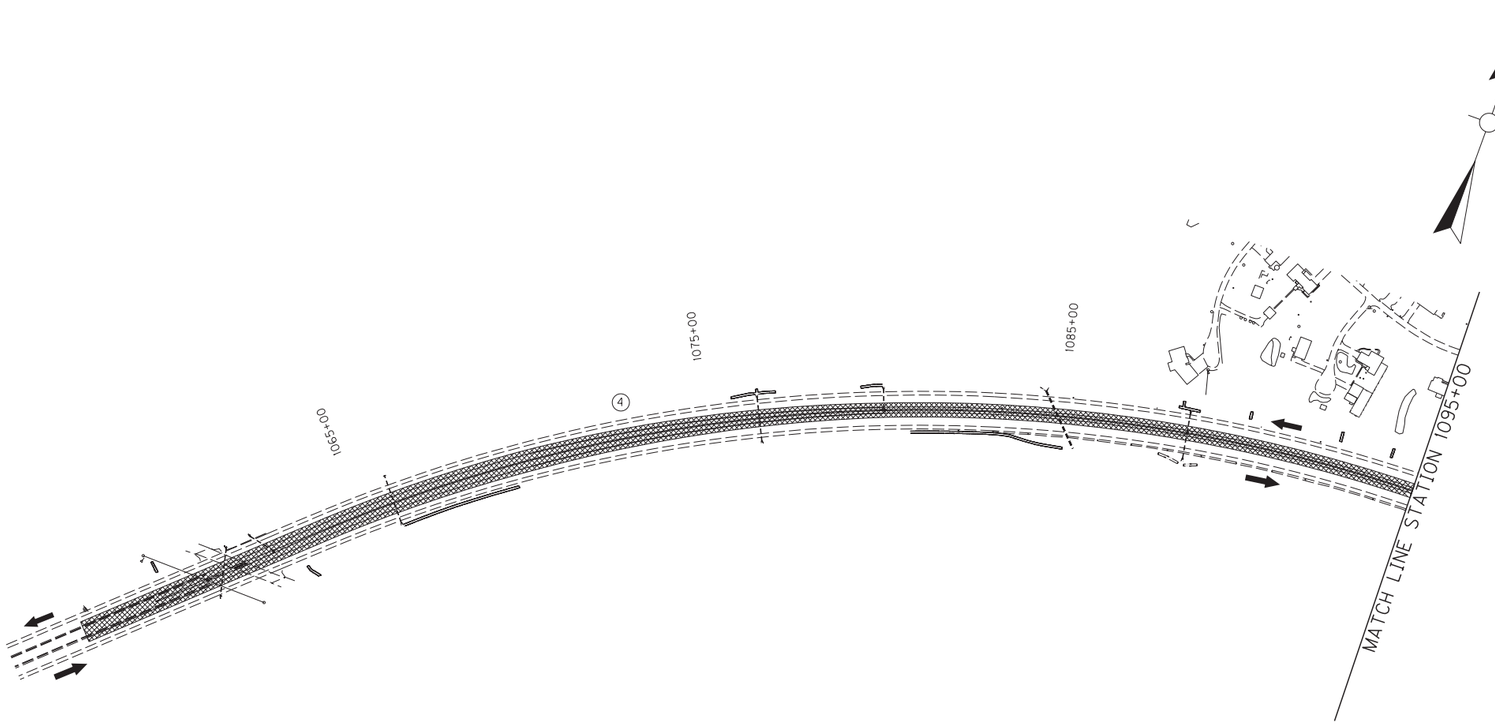
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	103

Maintenance of Traffic Notes
Phase 6

1. Close the inside lanes of I-69 mainline from Sta. 1145+00 to Sta. 1185+15.42.
2. Shift traffic to outside lanes and make KY 80 ramps a stop condition.
3. Construct barrier median and inside lanes from Sta. 1144+49.18 to Sta. 1186+15.42 I-69 north end.
4. Construct barrier median and inside lanes from Sta. 1056+60.96 to Sta. 1105+00 I-69 south end.

TYPICAL SECTION - PHASE 6





CONSTRUCTION THIS PHASE

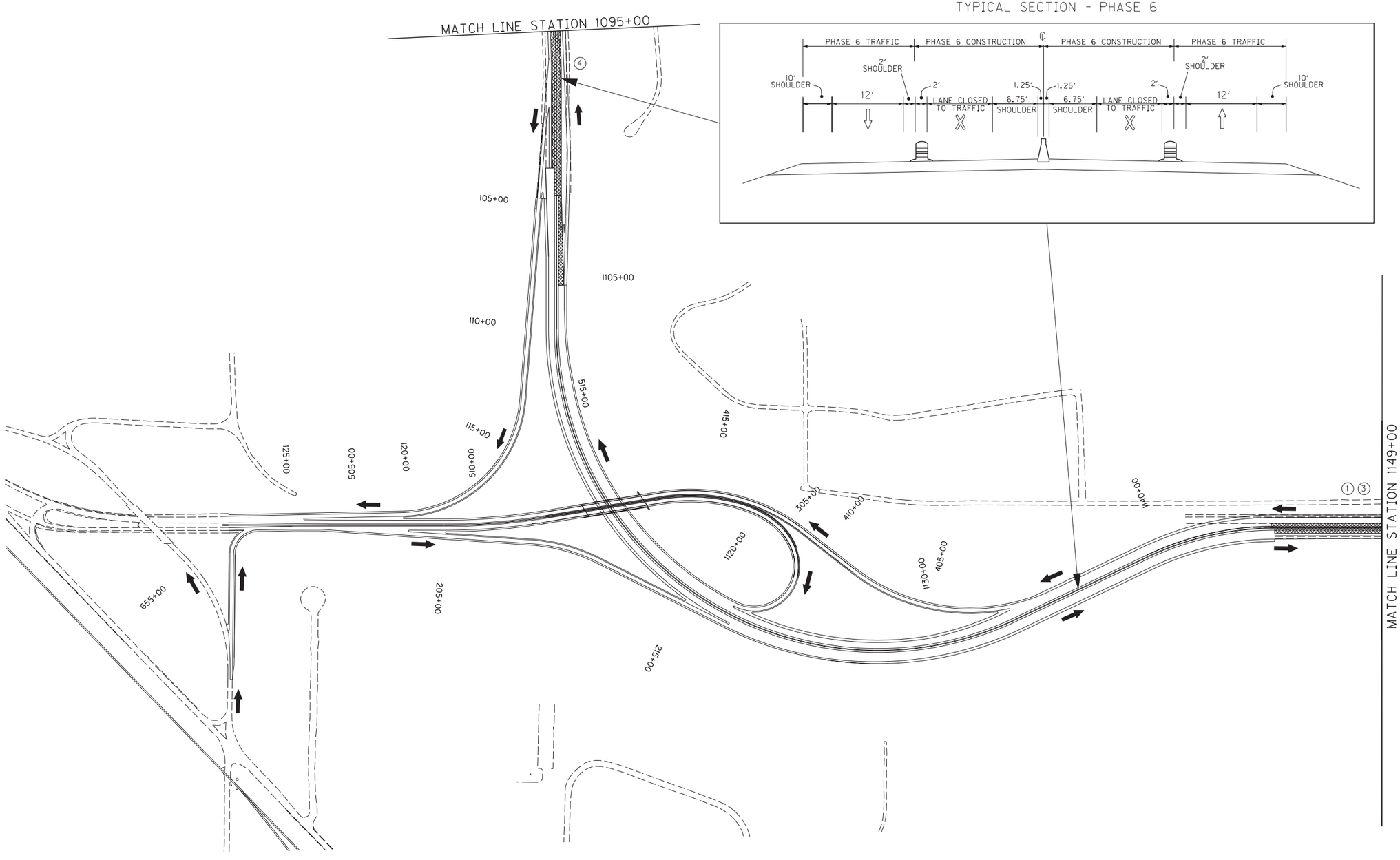
SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 6

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 6.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	104

TYPICAL SECTION - PHASE 6



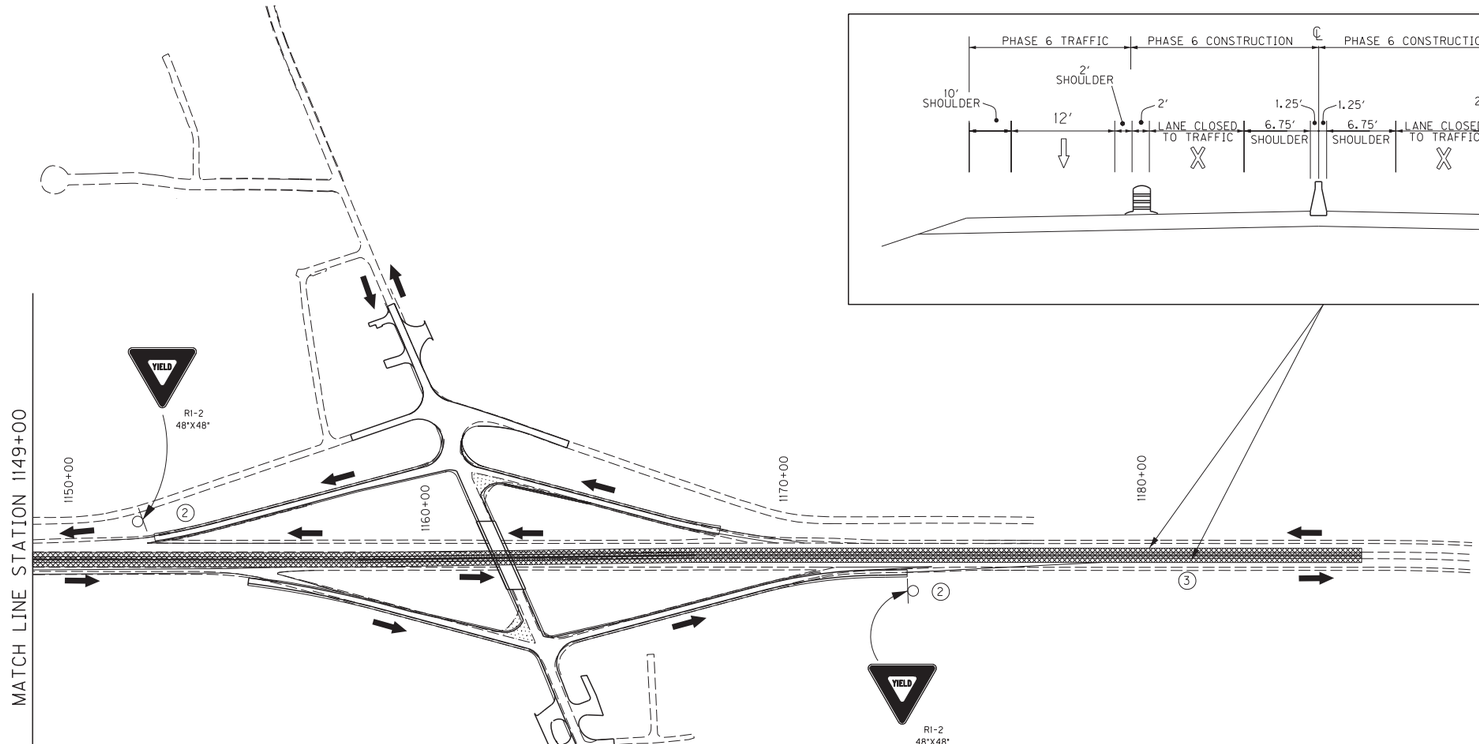
CONSTRUCTION THIS PHASE

SCALE: 1"=200'

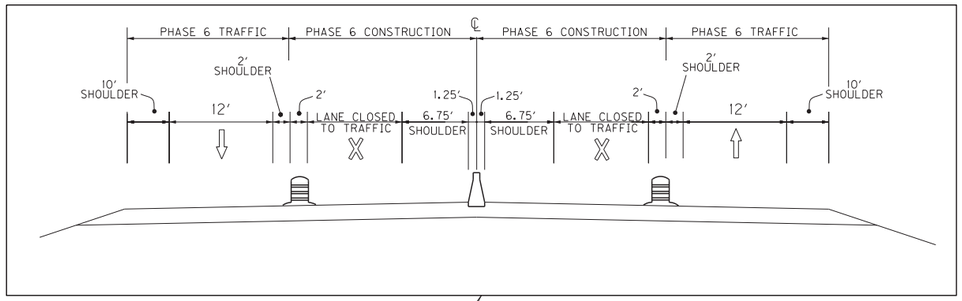
MAINTENANCE OF TRAFFIC
PHASE 6

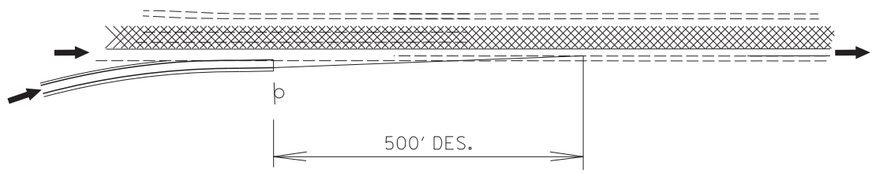
Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 6A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	105



TYPICAL SECTION - PHASE 6





② ACCELERATION LENGTH FOR ENTRANCE RAMP YIELD CONDITION

SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 6

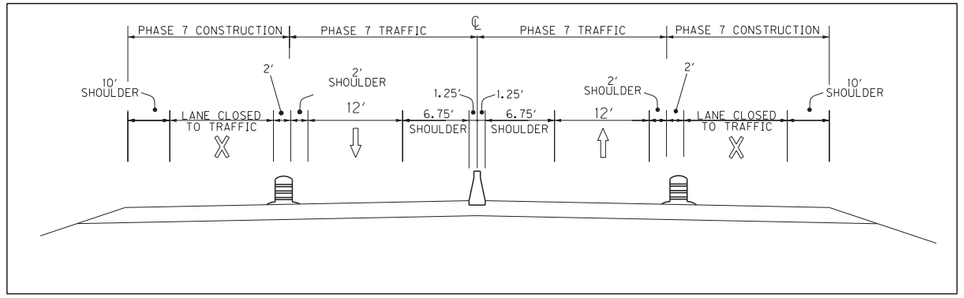
Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 6B.DGN

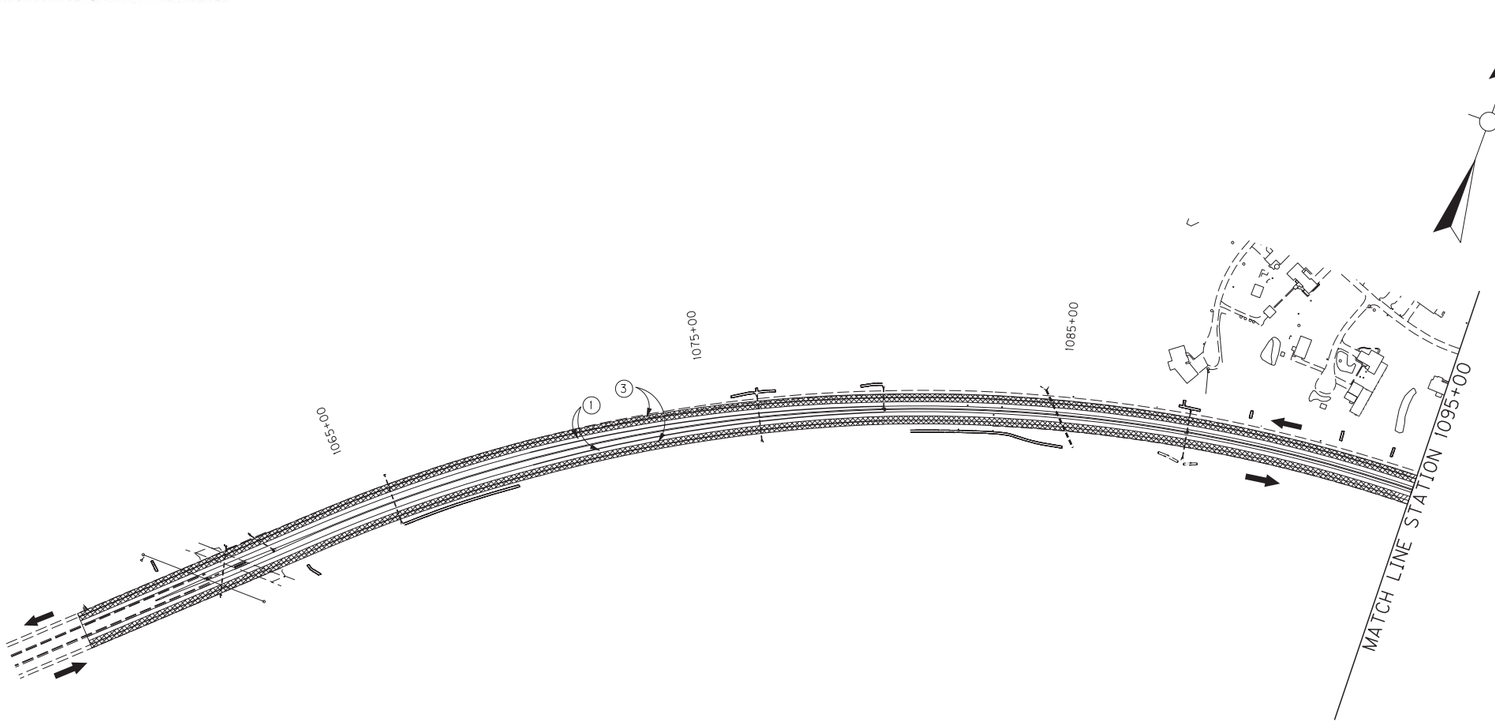
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	106

Maintenance of Traffic Notes
Phase 7

1. Shift traffic to the newly constructed inside lanes NB & SB I-69 from Sta. 1056+60.96 to Sta. 1186+15.42.
2. Construct new outside lanes from Sta. 1144+49.18 to Sta. 1185+15.42 I-69 north end.
3. Construct new outside lanes from Sta. 1056+60.96 to Sta. 1105+00 I-69 south end.
4. Connect I-69 to new KY 80 Ramps under traffic.
5. Open up both lanes to traffic and remove US 45 Bypass detours
6. Project complete (open to traffic).

TYPICAL SECTION - PHASE 7





CONSTRUCTION THIS PHASE

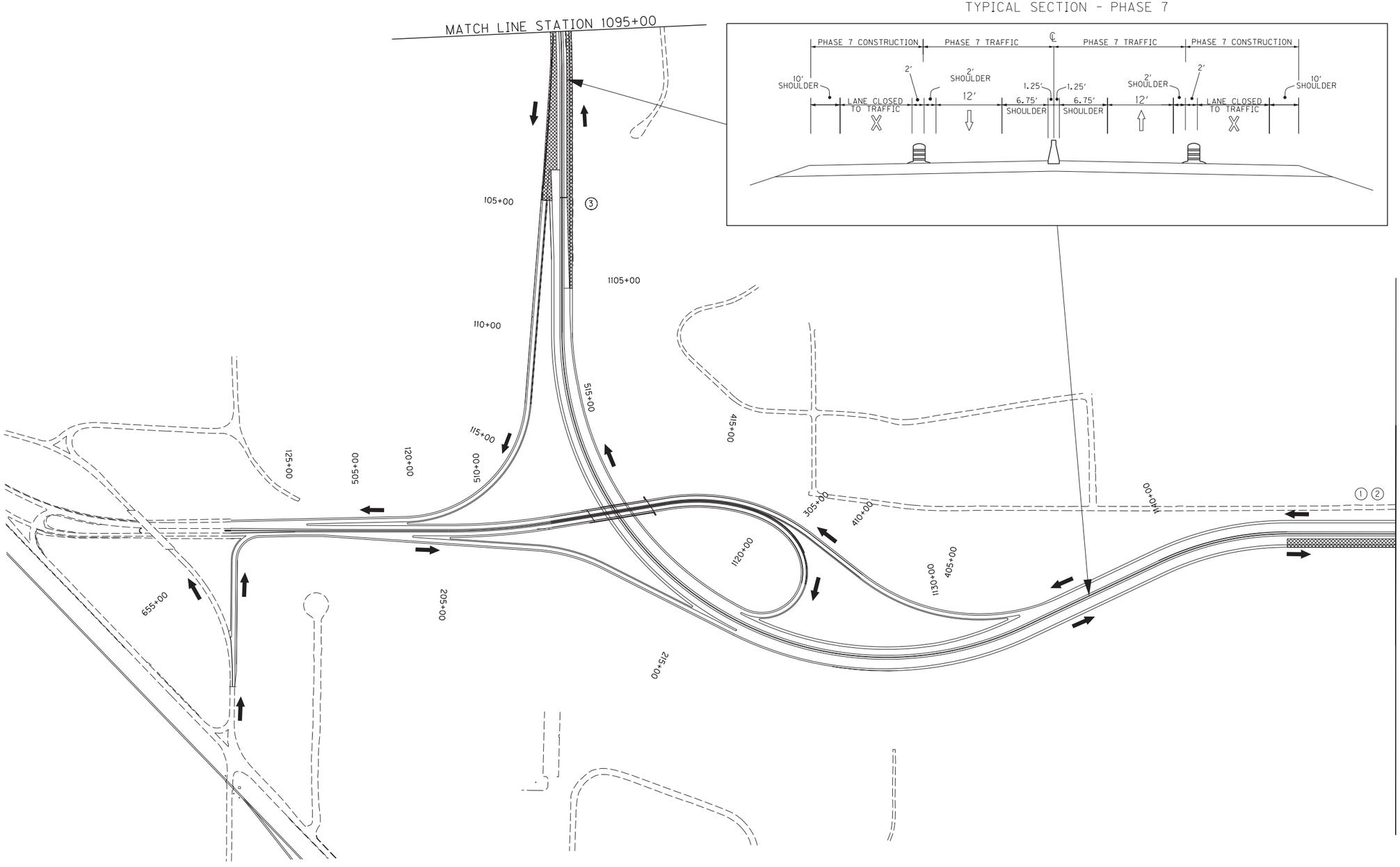
SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 7

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 7.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	107

TYPICAL SECTION - PHASE 7



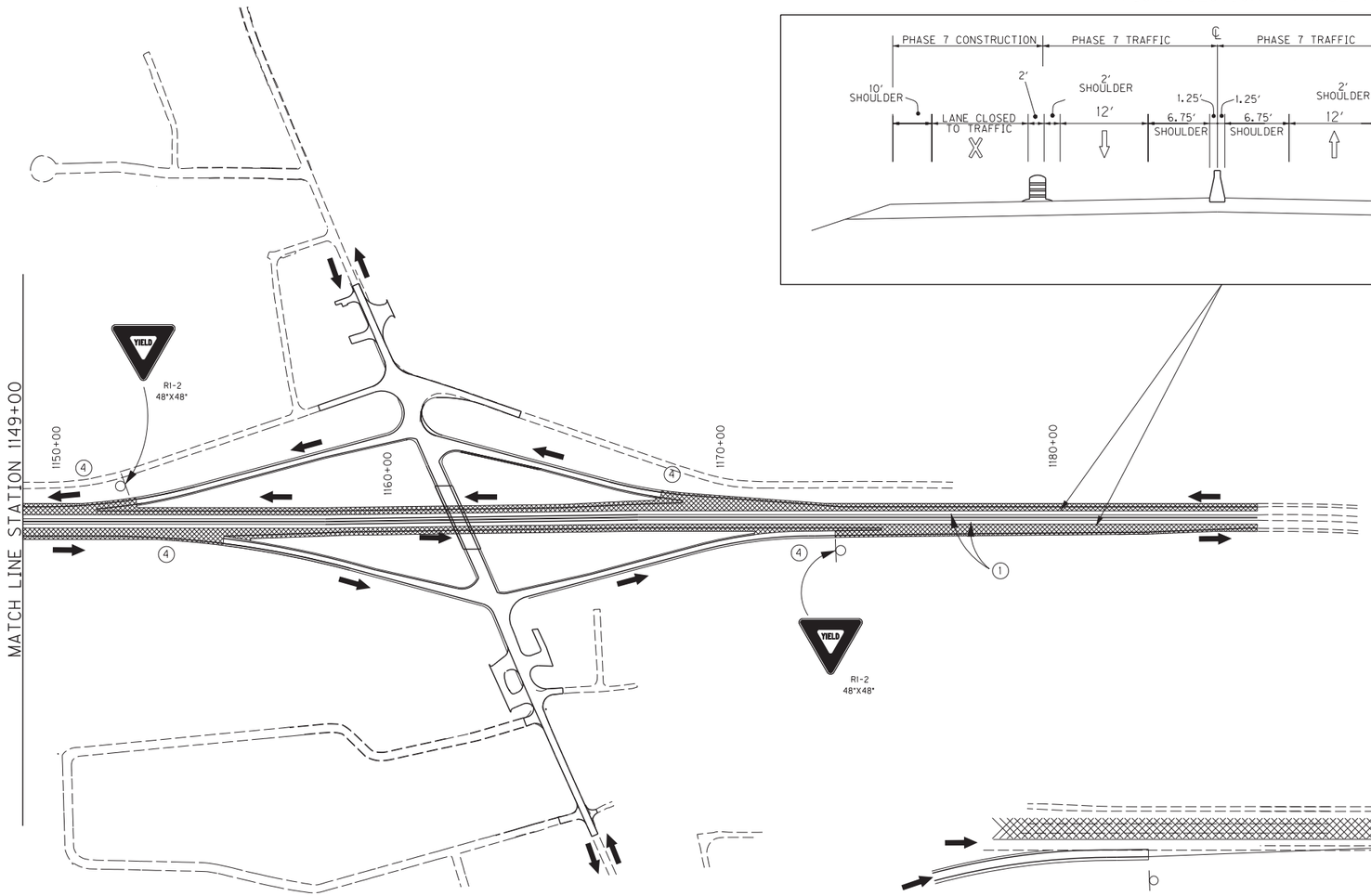
CONSTRUCTION THIS PHASE

SCALE: 1"=200'

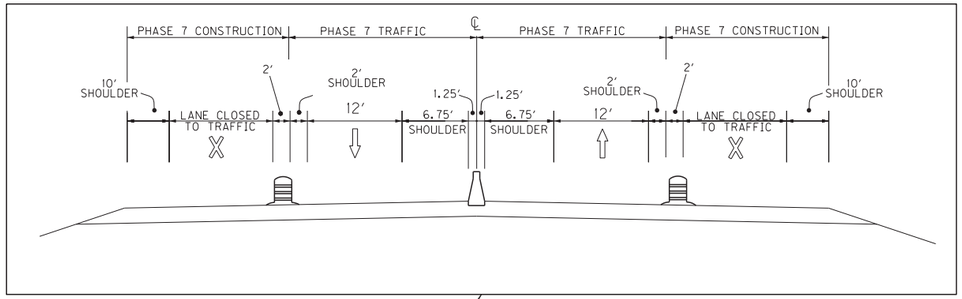
MAINTENANCE OF TRAFFIC
PHASE 7

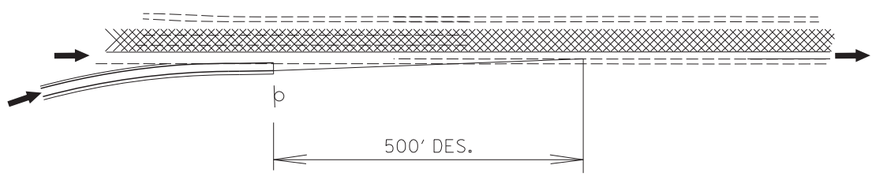
Power InRoads v8.11.9.578
E-SHEET NAME:
USER: mlane
DATE PLOTTED: July 30, 2015
FILE NAME: P:\PROJECTS\3002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 7A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	108



TYPICAL SECTION - PHASE 7





ACCELERATION LENGTH FOR ENTRANCE RAMP YIELD CONDITION

CONSTRUCTION THIS PHASE

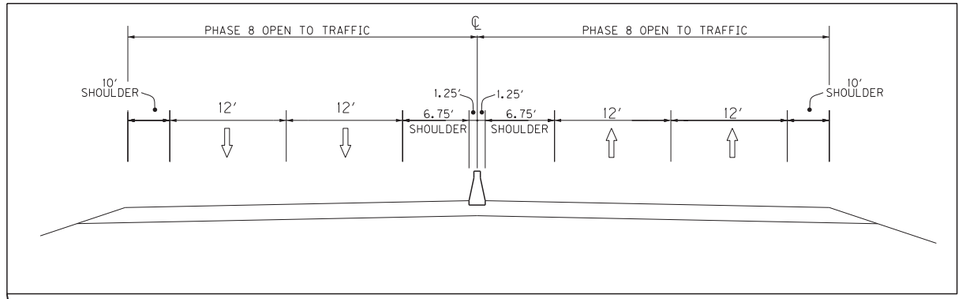
SCALE: 1"=200'

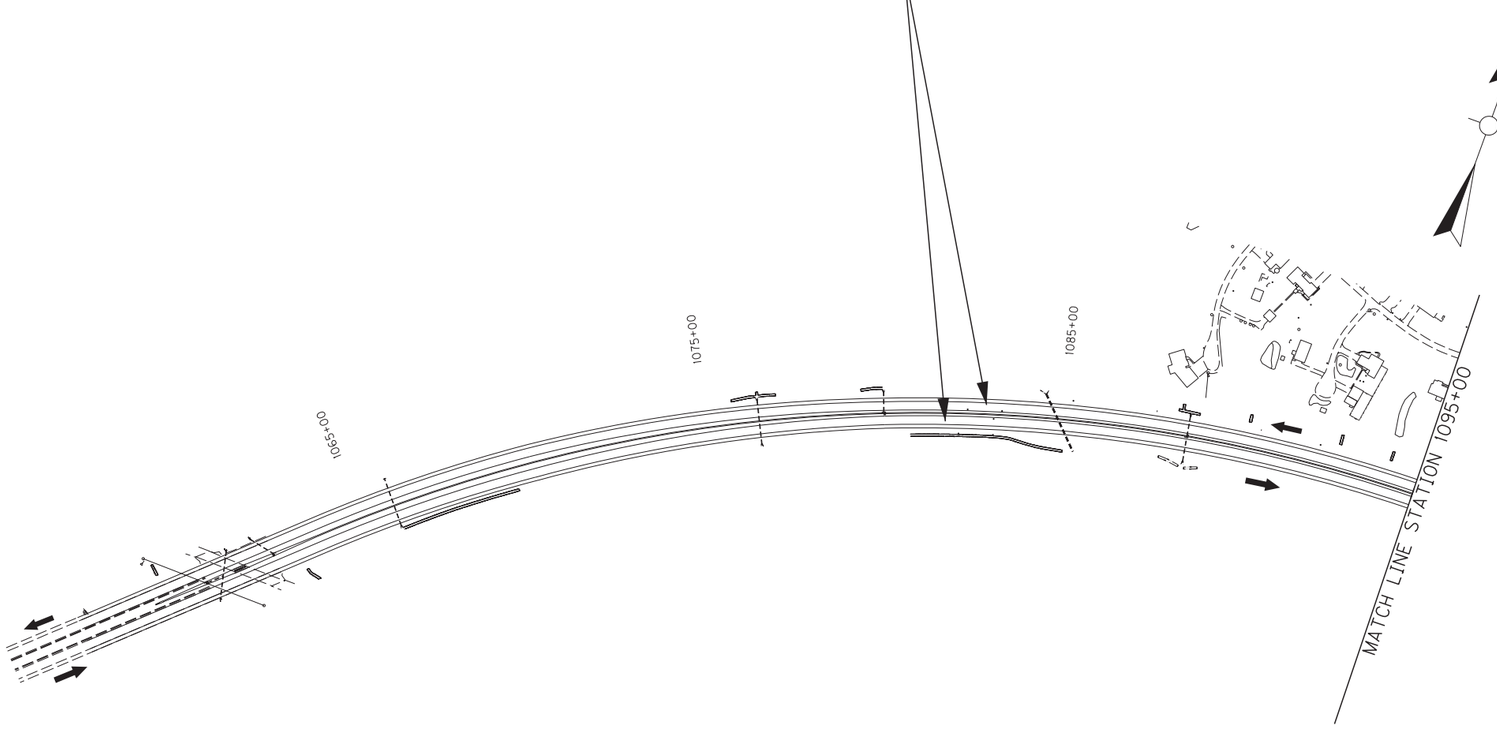
MAINTENANCE OF TRAFFIC
PHASE 7

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 7B.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	108A

TYPICAL SECTION - PHASE 8





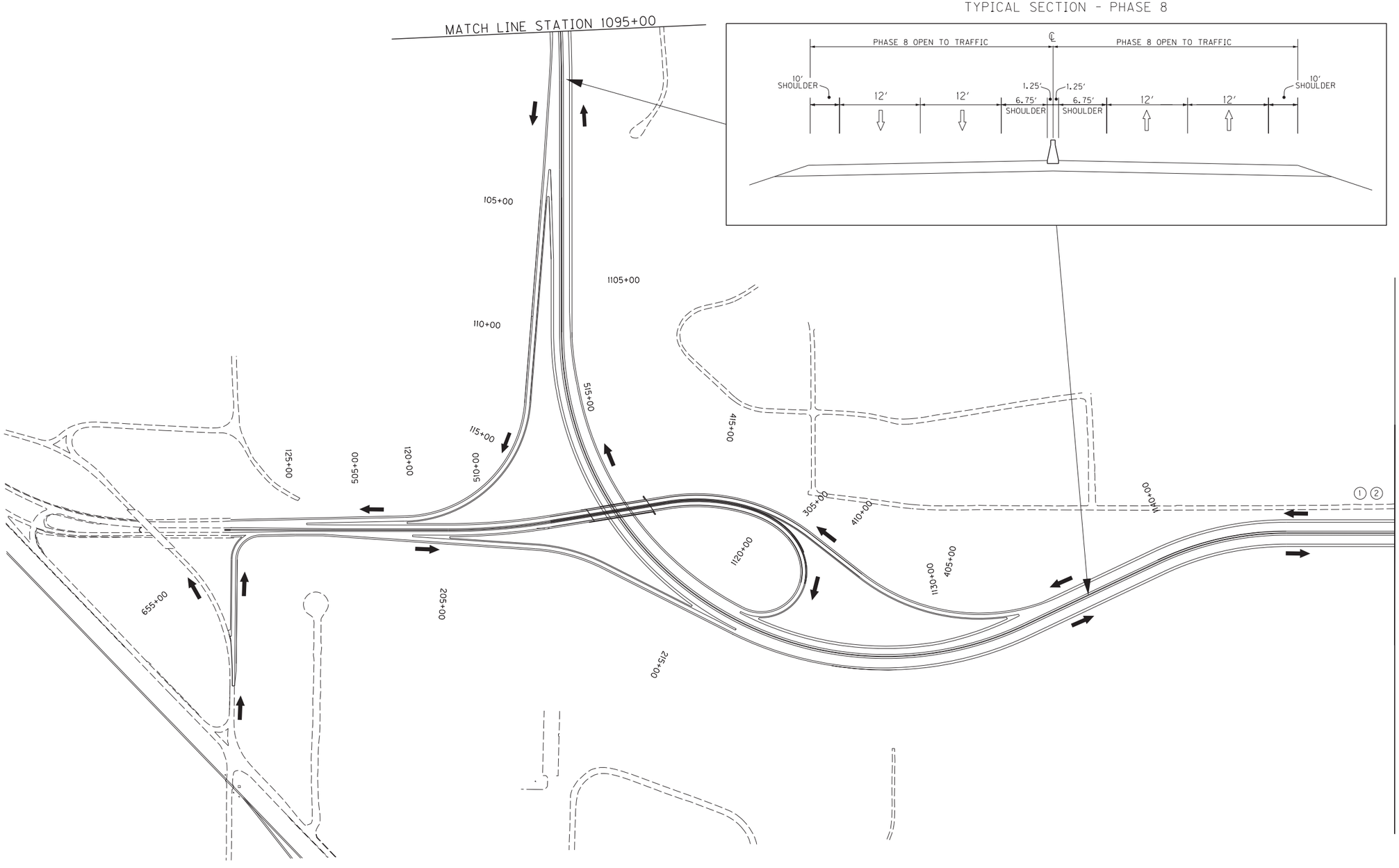
SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 8

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane
DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 8.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	108B

TYPICAL SECTION - PHASE 8

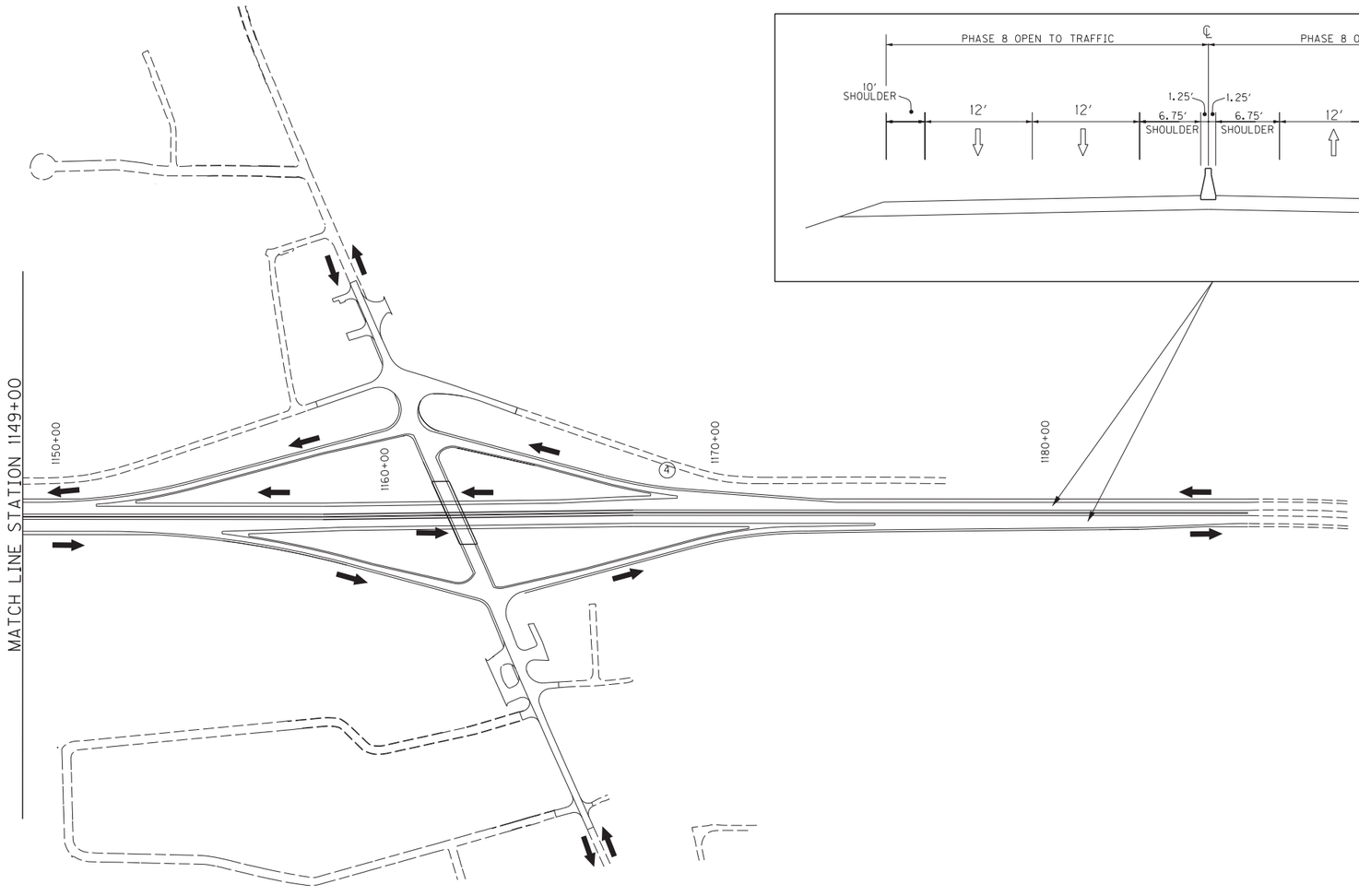


SCALE: 1"=200'

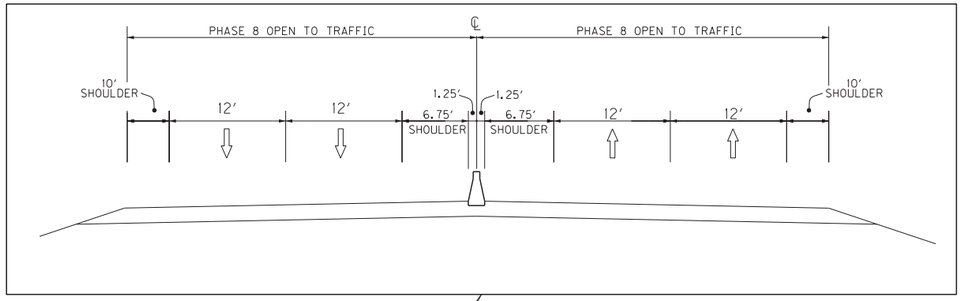
MAINTENANCE OF TRAFFIC
PHASE 8

Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 8A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	108C



TYPICAL SECTION - PHASE 8

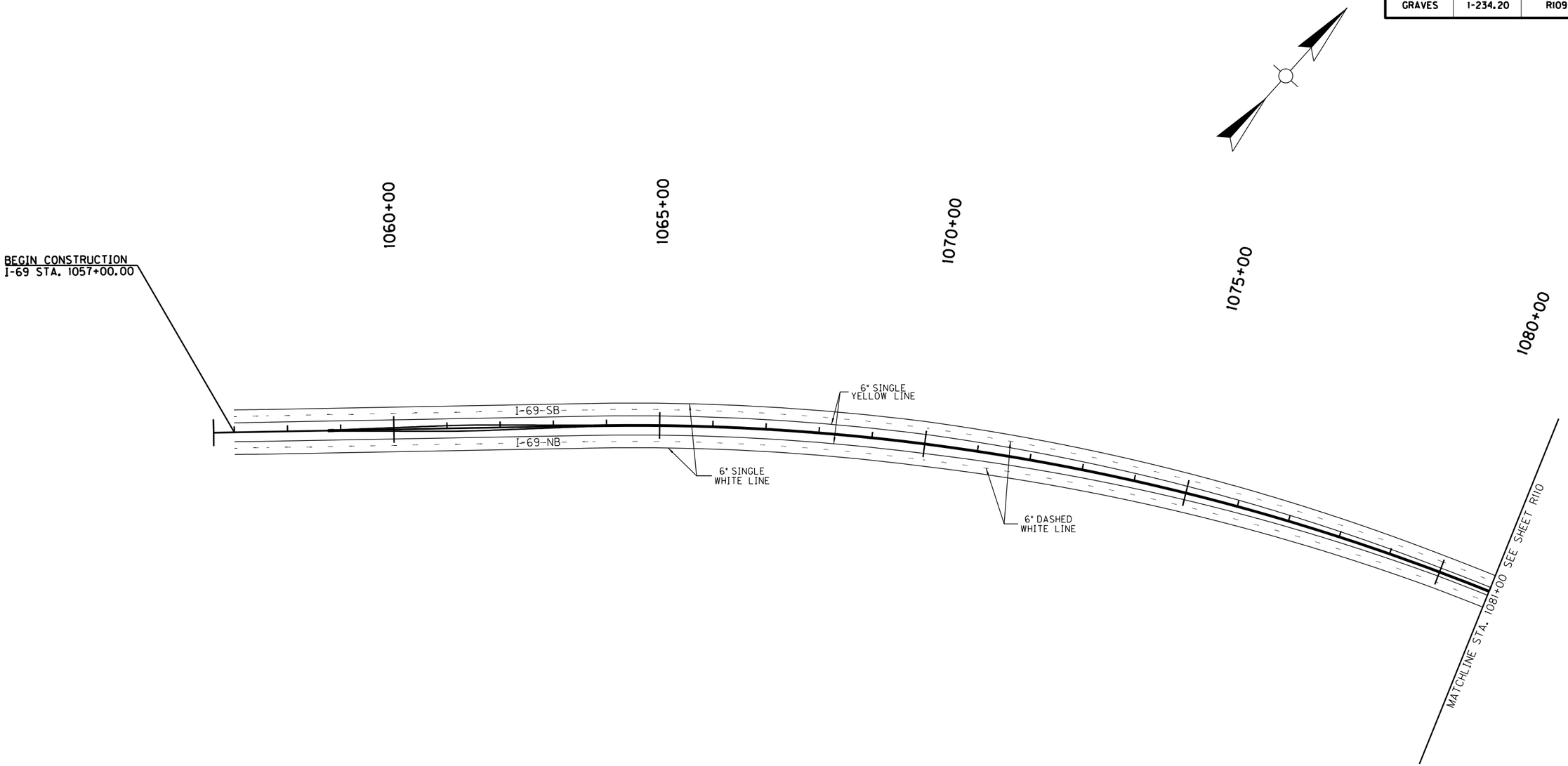


SCALE: 1"=200'

MAINTENANCE OF TRAFFIC
PHASE 8

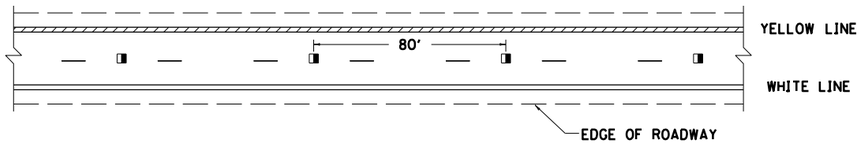
Power InRoads v8.11.9.578 | E-SHEET NAME: | USER: mlane DATE PLOTTED: July 30, 2015 | FILE NAME: P:\PROJECTS\2013 PROJECTS\13002 - I-69 MAYFIELD INTERCHANGE\CV\MOT\MOT PHASE 8B.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R109



LEGEND - I-69 MAINLINE

INLAID PAVEMENT MARKER (WHITE-RED)



MARKERS INSTALLED ALONG LANE LINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.

0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE STRIPING PLAN P.O.B. TO STA. 1081+00

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: July 1, 2015
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01405\STRIPING1.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R110

1085+00
1090+00
1095+00
1100+00
1105+00
1110+00

I-69 SB
I-69 NB
US 45 RAMP A

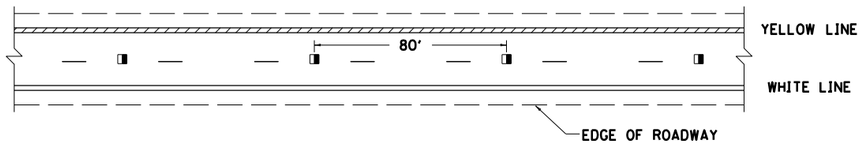
6" SINGLE YELLOW LINE
6" SINGLE WHITE LINE
6" DASHED WHITE LINE
6" SINGLE WHITE LINE
6" SINGLE YELLOW LINE
12" SINGLE WHITE LINE
BIDIRECTIONAL (W-R) SPACED EVERY 40'
6" DASHED WHITE LINE
6" SINGLE WHITE LINE
6" SINGLE YELLOW LINE
6" SINGLE WHITE LINE
BIDIRECTIONAL (Y-R) SPACED EVERY 40'

MATCHLINE STA. 1081+00 SEE SHEET R109
MATCHLINE STA. 1111+00 SEE SHEET R111

100+00
105+00
110+00
115+00

LEGEND - I-69 MAINLINE

◨ INLAID PAVEMENT MARKER (WHITE-RED)



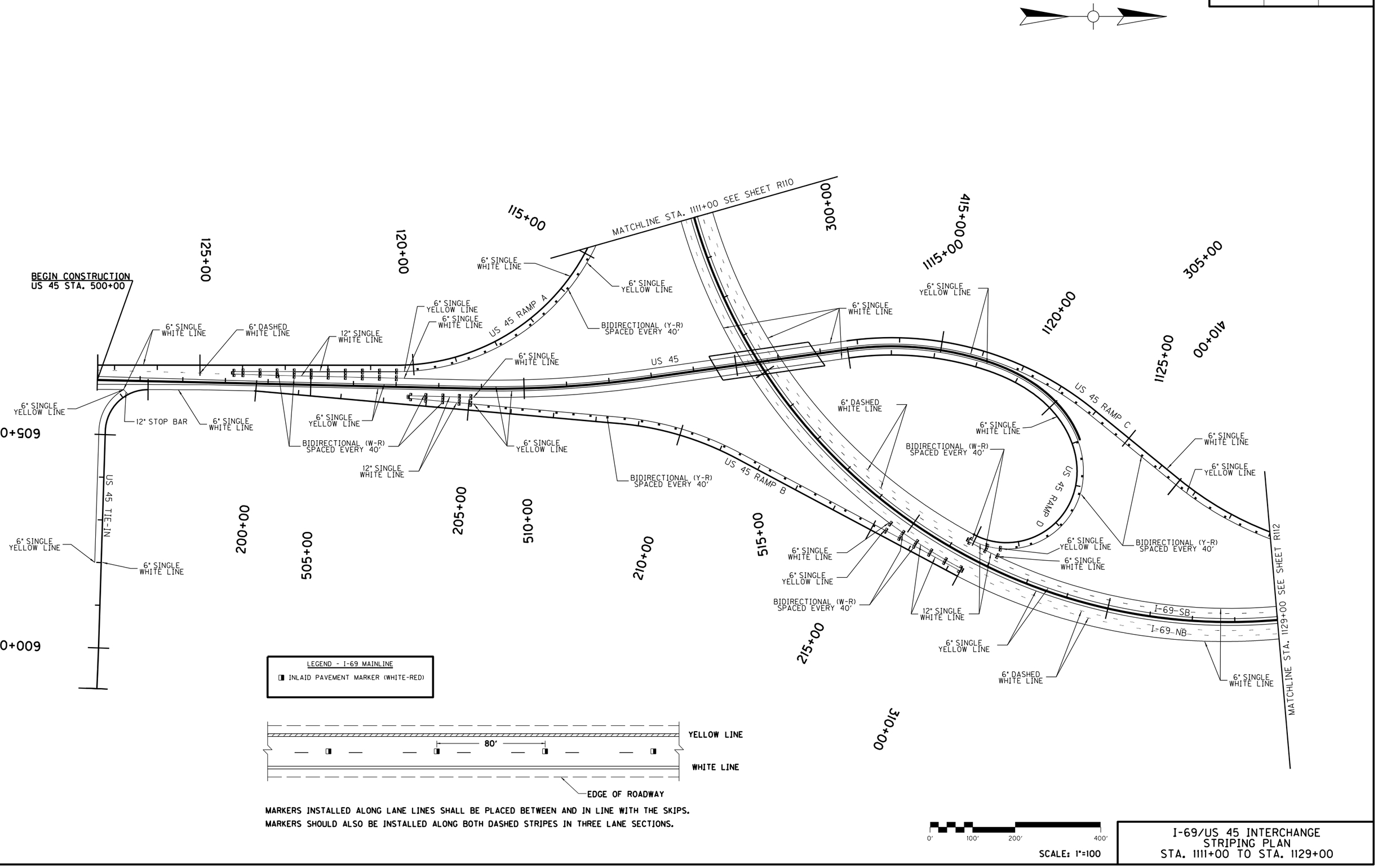
MARKERS INSTALLED ALONG LANE LINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.
MARKERS SHOULD ALSO BE INSTALLED ALONG BOTH DASHED STRIPES IN THREE LANE SECTIONS.

0' 100' 200' 400'
SCALE: 1"=100

I-69/US 45 INTERCHANGE STRIPING PLAN STA. 1081+00 TO STA. 1111+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01405\STRIPING2.DGN
USER: ryan-s
DATE PLOTTED: July 1, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R111



LEGEND - I-69 MAINLINE

INLAID PAVEMENT MARKER (WHITE-RED)

MARKERS INSTALLED ALONG LANE LINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.
MARKERS SHOULD ALSO BE INSTALLED ALONG BOTH DASHED STRIPES IN THREE LANE SECTIONS.

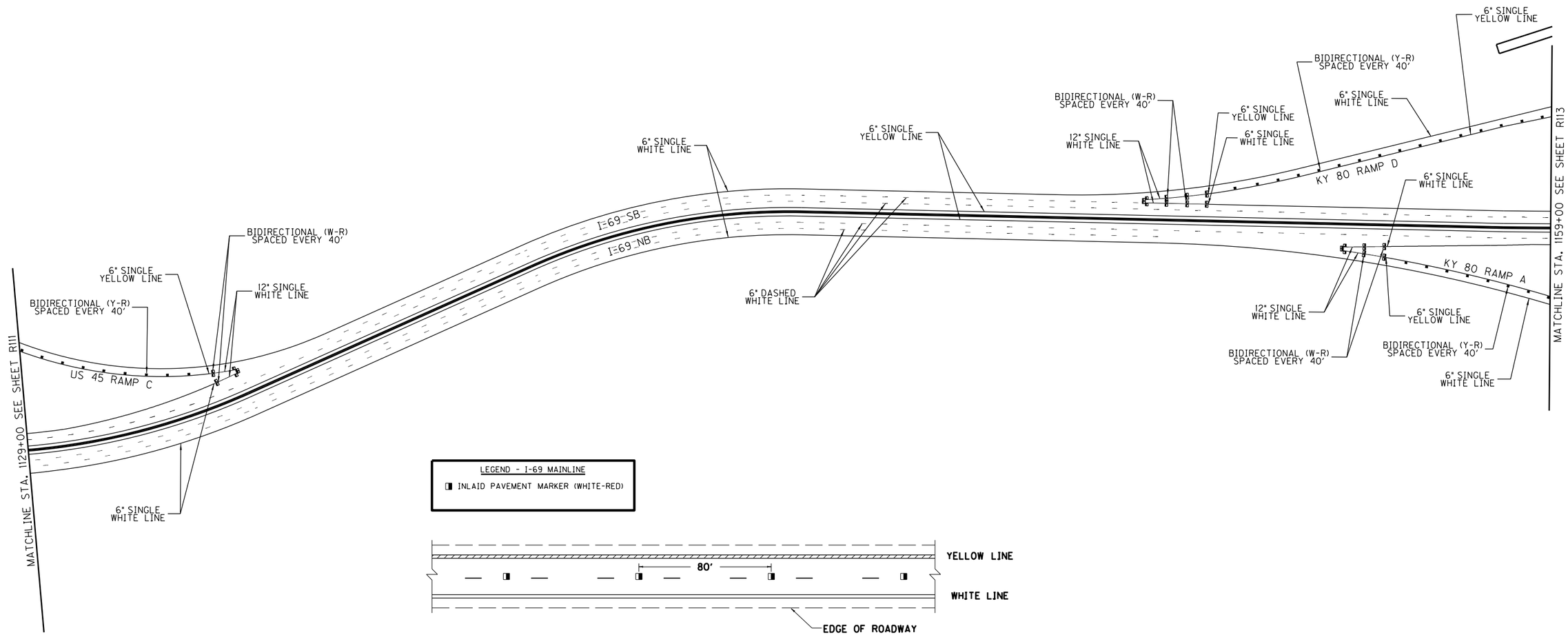
0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE STRIPING PLAN STA. 1111+00 TO STA. 1129+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01405\STRIPING3.DGN
USER: ryan-s
DATE PLOTTED: July 1, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R112



LEGEND - I-69 MAINLINE

INLAID PAVEMENT MARKER (WHITE-RED)

MARKERS INSTALLED ALONG LANE LINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.
MARKERS SHOULD ALSO BE INSTALLED ALONG BOTH DASHED STRIPES IN THREE LANE SECTIONS.

0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE STRIPING PLAN STA. 1129+00 TO STA. 1159+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS01405\STRIPING4.DGN
USER: ryan-s
DATE PLOTTED: July 1, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R113

BEGIN CONSTRUCTION
KY 80 STA. 42+42.94

KY 80

1000+00
1160+00
45+00
00+016
1165+00
1170+00
905+00
1175+00
900+00
1180+00
1185+00

4" DOUBLE YELLOW LINE
4" SINGLE WHITE LINE
12" STOP BAR
12" YELLOW BAR SPACED EVERY 3'
4" SINGLE WHITE LINE
12" STOP BAR
4" DOUBLE YELLOW LINE
6" SINGLE WHITE LINE
BIDIRECTIONAL (Y-R) SPACED EVERY 40'
24" STOP BAR
KY 80 RAMP D
YELLOW CROSS HATCH
BIDIRECTIONAL (W-R) SPACED EVERY 40'
6" SINGLE WHITE LINE
50+00
6" SINGLE YELLOW LINE
KY 80 RAMP C
12" SINGLE WHITE LINE
BIDIRECTIONAL (Y-R) SPACED EVERY 40'
6" SINGLE YELLOW LINE
6" SINGLE YELLOW LINE
4" SINGLE WHITE LINE
6" SINGLE WHITE LINE
6" DASHED WHITE LINE
6" SINGLE WHITE LINE
I-69-SB
I-69-NB
6" SINGLE YELLOW LINE
4" DOUBLE YELLOW LINE
6" SINGLE WHITE LINE
YELLOW CROSS HATCH
4" SINGLE WHITE LINE
KY 80 RAMP A
6" SINGLE YELLOW LINE
KY 80 RAMP B
6" SINGLE YELLOW LINE
12" SINGLE WHITE LINE
6" SINGLE YELLOW LINE
BIDIRECTIONAL (W-R) SPACED EVERY 40'
6" SINGLE WHITE LINE
BIDIRECTIONAL (Y-R) SPACED EVERY 40'
55+00
24" STOP BAR
6" SINGLE WHITE LINE
4" SINGLE WHITE LINE
4" DOUBLE YELLOW LINE
810+00
815+00
820+00
710+00
805+00
4" DOUBLE YELLOW LINE
4" SINGLE WHITE LINE
4" DOUBLE YELLOW LINE
800+00
60+00
4" SINGLE WHITE LINE
KY 80
4" DOUBLE YELLOW LINE
4" SINGLE WHITE LINE

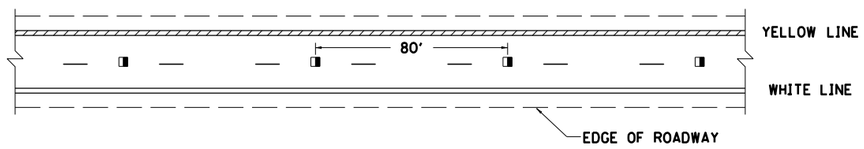
MATCHLINE STA. 1159+00 SEE SHEET R112

END CONSTRUCTION
I-69 STA. 1186+15.42

END CONSTRUCTION
KY 80 STA. 60+50.00

LEGEND - I-69 MAINLINE

INLAID PAVEMENT MARKER (WHITE-RED)



MARKERS INSTALLED ALONG LANE LINES SHALL BE PLACED BETWEEN AND IN LINE WITH THE SKIPS.

0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE STRIPING PLAN STA. 1159+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\WILL\DMS01405\STRIPING5.DGN
USER: ryan-s
DATE PLOTTED: July 1, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	RII4

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 SUCH AS TEMPORARY MULCH.(ACRES).
- THE USE OF TEMPORARY MULCH IS ENCOURAGED.
- 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 AFOREMENTED SILT BASIN OR TRAPS.

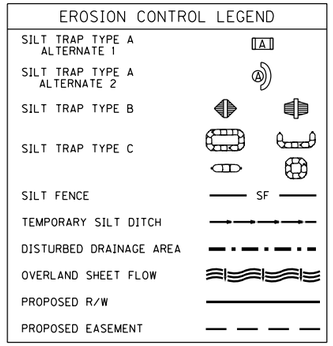
THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND SECTION ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 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 SECTION ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE SECTION 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





SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL NOTES

MicroStation v8.11.9.357 | E-SHEET NAME: | USER: will | DATE PLOTTED: July 13, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC PLAN NOTES.DGN

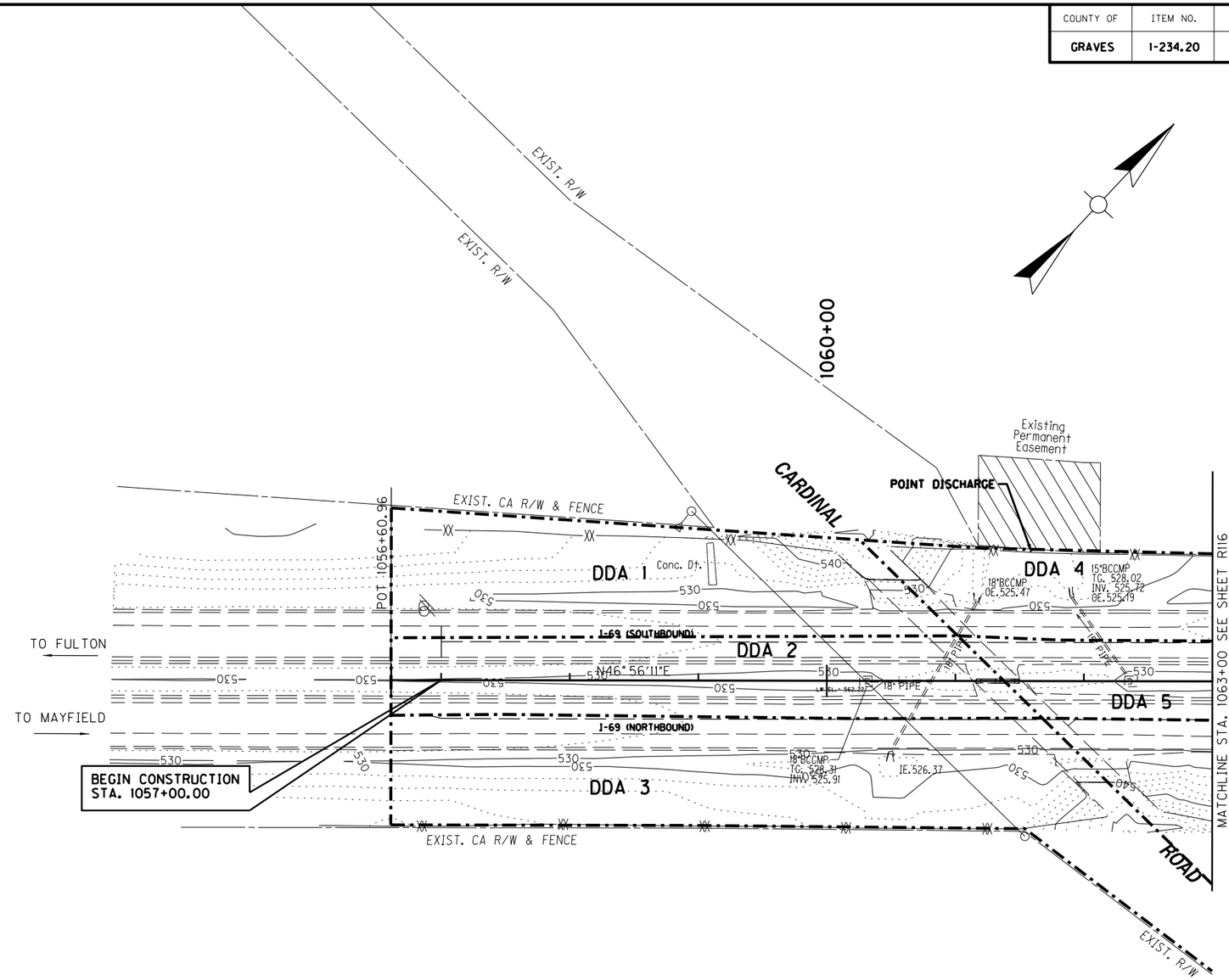
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R115

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1
- SILT TRAP TYPE A ALTERNATE 2
- 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	0.802	2,888
DDA 2	0.677	2,438
DDA 3	1.720	6,192
DDA 4	1.708	6,149
DDA 5	0.521	1,876



0' 50' 100' 200'

SCALE: 1"= 50'

I-69/US 45 INTERCHANGE EROSION CONTROL SHEET I-69 ML P.O.B. TO STA. 1063+00

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET1.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R116

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 4	1.708	6,149
DDA 5	0.521	1,876
DDA 6	0.973	3,505
DDA 7	2.309	8,313
DDA 8	1.005	3,618
DDA 9	0.605	2,178
DDA 10	8.001	28,804

1065+00

1070+00

1075+00

Existing Permanent Easement

POINT DISCHARGE

18" BCCMP OE. 525.74

EXIST. CA R/W & FENCE

DDA 4

DDA 8

Conc. Dt. IE. 529.66

I-69 (SOUTHBOUND)

DDA 9

DDA 6

I-69 (NORTHBOUND)

18" PE 123'

DDA 5

530

IE. 526.86

Conc. Dt.

DDA 7

DDA 10

18" BCCMP OE. 527.95

POINT DISCHARGE

Existing Permanent Easement

EXIST. CA R/W & FENCE

MATCHLINE STA. 1063+00 SEE SHEET R115

MATCHLINE STA. 1078+00 SEE SHEET R117

PC D63+72.96

CARDINAL ROAD

EXIST. R/W

EXIST. R/W

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1063+00 TO 1078+00

MicroStation v8.11.9.357 | E-SHEET NAME: | USER: will DATE PLOTTED: July 13, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET2.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R117

P.I. 1081+22.22

1080+00

1085+00

1090+00

GREENHILL CT.

SILVER CT.

RONALD FAIR AND TAMMY (WF)

WALDROP AND WALDROP, LLC

DOUG LINDSEY AND KIMBERLEE (WF)

EXIST. CA R/W & FENCE

30" BCCMP
IE. 511.88

18"BCCMP
IG. 526.09
IE. 523.74
OE. 523.44

DDA 8

DDA 11

DDA 12

DDA 13

DDA 14

DDA 15

DDA 10

I-69 (SOUTHBOUND)

I-69 (NORTHBOUND)

OE. 510.83
(NO HEADWALL)

IE. 503.86

18" BCCMP

OE. 507.96

18" BCCMP
INV. 506.87

Conc. Dt.

MATCHLINE STA. 1078+00 SEE SHEET R116

MATCHLINE STA. 1093+00 SEE SHEET R118

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1
- SILT TRAP TYPE A ALTERNATE 2
- 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 8	1.005	3,618
DDA 10	8.001	28,804
DDA 11	0.359	1,293
DDA 12	1.522	5,480
DDA 13	1.259	4,533
DDA 14	1.146	4,126
DDA 15	5.420	19,512

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1078+00 TO 1093+00

MicroStation v8.11.9.357 | E-SHEET NAME: | USER: will DATE PLOTTED: July 13, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET3.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	RII8

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET4.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

FIELD CREST DR.
Asphalt
Grass
Conc.
I-S-Frame
LENNY WILSON AND PATRICIA (WF)
JOSH BAILEY AND TIFFANY (WF)
JAMES RONALD
WALDROP AND WALDROP, LLC
1095+00
1100+00
1105+00
PT 1096+95.43
W.E. 512.2
W.E. 501.7
POINT DISCHARGE
EXIST. CA R/W & FENCE
RANDVIEW SEPTIC CORPORATION
15" BCCMP TR. 502.24 INV. 497.89 OE. 496.82
24" BCCMP OE. 496.11
PIPE BROKEN & HDWL SEPARATED
15"BCCMP TC. 500.63 INV. 498.53 OE. 497.82
15"BCCMP TR. 504.16 INV. 499.53 OE. 498.27
IE. 498.41
DDA 15
DDA 26
DDA 25
DDA 28
DDA 14
DDA 20
DDA 16
DDA 21
DDA 17
DDA 18
DDA 19
DDA 10
DDA 22
DDA 24
DDA 23
I-69 (SOUTHBOUND)
I-69 (NORTHBOUND)
72" PIPE
265 LF
S88°45'51"E
S84°57'00"E
S84°11'26"E
US 45 RAMP A
6H Truss Sign
15" BCCMP TC. 504.91 INV. 502.61
OE. 502.13
OE. 491.77
Conc. Dt.
15"BCCMP TR 504.30 INV. 499.75 OE. 499.57 (HDWL. ERODED)
15"BCCMP TR. 503.50 INV. 500.70 OE. 500.45
15"BCCMP TR. 504.64 INV. 502.34 OE. 501.34
24"BCCMP IE. 499.82
IE. 499.28
OE. 499.46
MATCHLINE STA. 1093+00 SEE SHEET RII7
MATCHLINE STA. 1108+00 SEE SHEET RII9
POT 100+00.00
PC 103+28.72
PI 103+76.12
PT 104+23.51
PC 1107+10.12
Existing Permanent Easement
CLOYS BRUCE
SIDES LIMITED PARTNERSHIP
WALDROP AND WALDROP, LLC
US 45 RAMP A
PI STA. 103+76.12
Δ= 0°45'35" RT.
T=47.40'
L=94.79'
R=7150.00'
E=0.16'
e=2.0%
DESIGN SPEED=40 MPH
105+00
110+00

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1 (A1)
- 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 10	8.001	28,804
DDA 14	1.146	4,126
DDA 15	5.420	9,512
DDA 16	0.758	2,729
DDA 17	0.333	1,199
DDA 18	1.618	5,825
DDA 19	0.079	285
DDA 20	0.079	285
DDA 21	0.624	2,247
DDA 22	0.120	432
DDA 23	0.826	2,974
DDA 24	0.216	778
DDA 25	0.083	299
DDA 26	0.230	828
DDA 28	8.213	29,567

0' 50' 100' 200'
SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1093+00 TO 1108+00

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	RII9

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 15	5.420	19,512
DDA 18	1.618	5,825
DDA 21	0.624	2,247
DDA 23	0.826	2,974
DDA 24	0.216	778
DDA 26	0.230	828
DDA 27	0.380	1,360
DDA 28	8.213	29,567
DDA 29	0.709	2,553
DDA 30	2.581	9,292
DDA 31	0.207	746
DDA 32	2.166	7,798
DDA 39	1.014	3,651
DDA 40	1.708	6,149
DDA 41	1.064	3,831
DDA 42	0.101	364
DDA 43	14.691	52,888

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	

MATCHLINE STA. 415+00 SEE SHEET R120

MATCHLINE STA. 1120+00 SEE SHEET R120

MATCHLINE STA. 1108+00 SEE SHEET R118

MATCHLINE STA. 510+00 SEE SHEET R126

MATCHLINE SEE SHEET R120A

LAKESHORE DR.

WALDROP AND WALDROP, LLC

AGAPE PROPERTIES LIMITED

1-S-Fr.

Conc.

Sh.

C. Link

Asphalt

EXIST. CA R/W & FENCE

15"BCCMP TR. 497.30 INV. 491.90 OE. 489.80

DDA 15

DDA 26

DDA 27

DDA 28

DDA 29

DDA 21

DDA 18

DDA 24

DDA 23

DDA 30

DDA 31

DDA 32

DDA 43

DDA 41

DDA 42

DDA 40

DDA 39

PI 301+47.28

PC 300+00.00

PT 417+25.07

N8° 06' 43"W

N28° 03' 27"E

PT 211+43.41

PI 210+02.07

PC 208+56.85

PT 512+88.48

PI 510+82.50

PI 117+55.05

PC 113+03.19

1115+00

1110+00

515+00

215+00

210+00

115+00

510+00

Conc. Dt.

Raised Curb

Inlet Buried TG. 513.93 INV. 506.63

Ground Mt. Panel Sign

Ground Mt. Panel Sign

US 45 RAMP A

US 45 RAMP B

US 45 BYPASS

Existing 4-Span Conc. Bridge

Existing 4-Span Conc. Bridge

15"BCCMP TG 523.02 INV. 519.07 OE. 500.27

15"BCCMP TG 524.00 INV. 520.40

30" BCCMP IE. 497.12

18"BCCMP OE. 495.47 OE. 495.28

15"BCCMP TG. 522.72 INV. 518.17 OE. 507.65

15"BCCMP TG 523.60 INV. 520.15

18"BCCMP OE. 503.53

30" BCCMP OE. 500.17

15"BCCMP TR 507.98 INV. 503.58 OE. 503.07

IE. 501.03

OE. 503.10

OE. 500.27

OE. 493.88

IE. 505.30

Dirt

Pvd. Area-7

Pvd. Area-8

I-69 ML STA. 1114+72.46 = US 45 BYPASS STA. 515+53.70

CITY OF MAYFIELD

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1108+00 TO 1120+00

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET5.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R120

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 27	0.380	1,360
DDA 28	8.213	29,567
DDA 43	14.691	52,888
DDA 44	0.128	461
DDA 45	0.321	1,156
DDA 47	8.185	29,466

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 48	0.390	1,404
DDA 49	1.179	4,245
DDA 50	0.412	1,484
DDA 51	4.472	16,099
DDA 52	0.224	807
DDA 53	0.822	2,960

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1
- SILT TRAP TYPE A ALTERNATE 2
- 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

MATCHLINE STA. 415+00 SEE SHEET R119

MATCHLINE STA. 1120+00 SEE SHEET R119

MATCHLINE STA. 1135+00 SEE SHEET R122

MATCHLINE SEE SHEET R121

52.00' LT. I-69 ML
STA. N21+33.62=
US 45 RAMP D STA. 310+10.54

52.00' RT. I-69 ML
STA. 1121+49.10=
US 45 RAMP B STA. 217+30.24

Ls=425.00
Theta=90°56'18"
ST=221.73
LT=313.25
LC=380.81

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1120+00 TO 1135+00

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET6.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.02	R121

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1 — A1
- SILT TRAP TYPE A ALTERNATE 2
- 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 46	2.631	9,472
DDA 47	8.185	29,466

MATCHLINE SEE SHEET R119

MATCHLINE SEE SHEET R120

DDA 47

DDA 46

POINT DISCHARGE

INDUSTRIAL DR.

INDUSTRIAL AUTHORITY OF MAYFIELD-GRAVES COUNTY

MAYFIELD-GRAVES COUNTY INDUSTRIAL DEVELOPMENT BOARD, INC

OLD PRYORSBURG RD.

Pilgrams Pride
1-S-Conc. Business

Tank

Gvl.

1-S-Fr.

Car

Lawn

Asphalt

Conc. Dt.

SANMH
TOP 488.14
INV. 480.79

SANMH
TOP 488.79
INV. 475.54

SAN

WM

F.H.

Exist. C/Rail Barricade

PI 1127+72.83

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML

FILE NAME: C:\PW_WORKDIR\will\DMS01396\EC_SHEET6A.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.02	R122

SUTTON LANE CHURCH OF CHRIST
Sutton Lane Church of Christ
1-S-Fr.
1-S-Brick
Asphalt Parking
Asphalt
Lawn
Sign
SAYRE DR.
CASEY PUCKETT
1-S-Metal Business
Grass
Gvl.
JOSEPH WOOLRIDGE AND MARY (WF)
WILLIAM A. WILSON AND ANN E. (WF)
1-S-Fr.
Gvl.
Lawn
WALDROP AND WALDROP, LLC
GEORGE KENT ISBELL
60' W. KY. RURAL ELECTRIC ESM'T
520
520
1-S-Block-Business
Mayfield Printing
Asphalt
EXIST R/W
DDA 52
DDA 53
DDA 54
DDA 55
DDA 56
DDA 57
DDA 58
DDA 59
US MRP
IP
1140+00
1145+00
1150+00
Ground Mt. Panel Sign
EXIST. CA & FENCE
Raised Curb Median
Mountable Curb
Asphalt
IE.510.75 RP (Bent)
18"BCCMP
OE.508.74
IE.508.05
18"BCCMP
PI 1142+02.23
IE.507.30
30"BCCMP
OE.504.71
IE.499.86
Axle
Conc. Mon.
Grass
S. SUTTON LN.
Asphalt
IE.511.51
TC.513.53
INV.508.78
80'65+110
P
I-69 (SOUTHBOUND)
OH Truss Sign.
I-69 (NORTHBOUND)
LW EL.= 547.69
24"BCCMP
OE.508.08
44.00' LT. I-69 ML
STA. 1149+57.92=
KY 80 RAMP D STA. 1011+59.08
1135+00
44.00' LT. I-69 ML
STA. 1135+17.46=
US 45 RAMP C STA. 400+00.00
PC 400+00.00
MATCHLINE STA. 1135+00 SEE SHEET R120
N24°07'27"W
18"BCCMP
IE.506.70
OE.506.88
OE.506.33
30"BCCMP
OE.499.76
Conc. Df.
Ground Mt. Panel Sign
WM
PROPOSED C/A R/W & FENCE
EXIST. CA R/W & FENCE
Existing Permanent Easement
TEMP.CONST.ESMT. FOR SLOPE CONST.
PC 1139+31.71
POINT DISCHARGE
PT 1144+63.85
PROPOSED C/A R/W & FENCE
POINT DISCHARGE
Existing Permanent Easement
60' W. KY. RURAL ELECTRIC ESM'T
OE.508.08
MATCHLINE STA. 1150+00 SEE SHEET R123
JAMES S. RILEY & ALICE FRANCES (WF)
3
490
500
510

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 47	8.185	29,466
DDA 53	0.822	2,960
DDA 54	0.253	911
DDA 55	0.902	3,248
DDA 56	1.298	4,673
DDA 57	2.394	8,619
DDA 58	7.031	25,312
DDA 59	0.956	3,442

0' 50' 100' 200'

SCALE: 1"=50'

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1135+00 TO 1150+00

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET7.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.02	R123

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET8.DGN
USER: ryan-s
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

CHARLES M. COURTNEY AND MARY (WF)
JOSEPH WOOLRIDGE AND MARY (WF)
PAUL B. WOODARD AND BARBARA (WF)
BRIAN K. DREW AND ELIZABETH N. INNES
LAURA KENDALL
JAMES & MARY ST.
S. SUTTON LANE
N. SUTTON LANE
S. SUTTON LN.
Mayfield
Corp. Limit
KY 80 RAMP A
KY 80 RAMP B
KY 80 RAMP C
KY 80 RAMP D
KY 80 ML
I-69 (SOUTHBOUND)
I-69 (NORTHBOUND)
DDA 58
DDA 59
DDA 60
DDA 61
DDA 62
DDA 63
DDA 64
DDA 65
DDA 66
DDA 70
DDA 71
DDA 72
DDA 73
DDA 74
DDA 75
POT 0+00.00 = KY 80 ML STA. 45+58.88
POT 1000+00.00 = KY 80 ML STA. 47+09.97
POT 912+96.34 = KY 80 ML STA. 47+24.01
I-69 ML STA. 1162+12.23= KY 80 ML STA. 50+15.62
44.00' RT. I-69 ML STA. 1151+50.44= KY 80 RAMP A STA. 700+00.00
POT 712+02.69 = KY 80 ML STA. 53+05.62
MATCHLINE STA. 1150+00 SEE SHEET R122
MATCHLINE STA. 1165+00 SEE SHEET R124
POINT DISCHARGE - Existing Permanent Easement
JOEL T. NESLER & SALLY (WF)
BOBBY PURCELL AND TERESA (WF)
JESSE OGG AND SONYA (WF)
WALDROP AND WALDROP, LLC.
GEORGE W. PETTY, JR. AND GEORGE C. PETTY
Raised Grass Median w / Mountable Curb
Exist. 4-Span Conc. Bridge
Exist. Concrete Split Through Slope
Exist. Concrete Split Through Slope
Exist. Bridge Wing Slope
Exist. Conc. Wall Through Slope
Proposed C/A R/W & Fence
Tie to Exist. C/A & Fence
Tie to Exist. Fence
Gate
Garage
Conc. Dt.
Asphalt
Grass
Gvl.
Lawn
Brick
Conc.
Exist. R/W
Exist. CA & Fence
Proposed C/A R/W & Fence
Exist. Fence
Exist. Ent. Const.
Prvt. Sh.
Conc. Mon.
Conc. Dt.
Bridge Wing Slope
Bridge Wing Slope
Bridge Wing Slope

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R124

FIRST ASSEMBLY OF GOD CHURCH

FIRST ASSEMBLY OF GOD CHURCH

FIRST ASSEMBLY OF GOD CHURCH

BARCLAY METAL COMPANY, INC.
ROBERT BARCLAY, JR AND JOSEPH F. BARCLAY

I-S-Metal Business
Barclays Metal Inc.

BARCLAY METAL COMPANY, INC.
ROBERT BARCLAY, JR AND JOSEPH F. BARCLAY

Mayfield Corp. Limit

Grass

Gravel

Asphalt

Grass

Sign

Gravel Parking

Metal Gar.

Conc.

Conc. Mon.

EXIST. R/W

*4491

*9299

*7985

*224

EXIST. R/W

EXIST. CA & FENCE

905+00

1170+00

1175+00

1180+00

815+00

1165+00

PI 805+83.60

PC 804+61.02

PI 807+05.49

32.00' LT. I-69 ML STA. 1173+65.11=
KY 80 RAMP C STA. 900+00.00

PI 900+00.00

JP (Disturbed)

IE. 505.55

48"BCCMP

OE. 504.52

IE. 504.22

DDA 71

N. SUTTON LN.

TG. 524.22
INV. 518.83

KY 80 RAMP C

IE. 520.89

S5°32'51"W

Ground Mt. Panel Sign

I-69 (SOUTHBOUND)

N1°16'24"E

48"BCCMP

18" BCCMP

DDA 72

DDA 73

Asphalt

Asphalt

MATCHLINE STA. 1165+00 SEE SHEET R123

MATCHLINE STA. 1180+00 SEE SHEET R125

I-69 (NORTHBOUND)

N0°44'12"E

OE. 519.75

IE. 518.07

18" BCCMP

OE. 516.44

OE. 501.69

OE. 517.69

DDA 74

IE. 521.24

18" BCCMP

DDA 75

KY 80 RAMP B

N13°43'25"W

EXIST. CA R/W & FENCE

POINT DISCHARGE

POINT DISCHARGE

PI 1167+51.27

PC 806+28.57

PI 807+97.30

PT 809+64.24

PI 809+84.58

PI 811+84.18

Mayfield Corp. Limit

60' W. KY. RURAL & MAYFIELD ELECTRIC ESM'T.

Existing Permanent Easement

OE. 520.12

EXIST. CA R/W & FENCE

PRINCETON DR.

TERRY J. FOX

Lawn

43

POINT DISCHARGE

CASH FARM LANDS, LLC

44

Cultivated

CASH FARM LANDS, LLC

44

Cultivated

1-S-Bl. Vacant

Gvl.

1-S-Brick

Gvl.

55+00

Asphalt Parking
(No UST Found)

Vacant Lot

Grass

Asphalt Parking

BARBARA J. HOLLAND

36

EXIST. R/W

EXIST. R/W

EXIST. R/W

GM

Asphalt

CORNELL

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 71	5.026	18,094
DDA 72	1.925	6,930
DDA 73	1.720	6,192
DDA 74	1.123	4,043
DDA 75	4.857	17,486

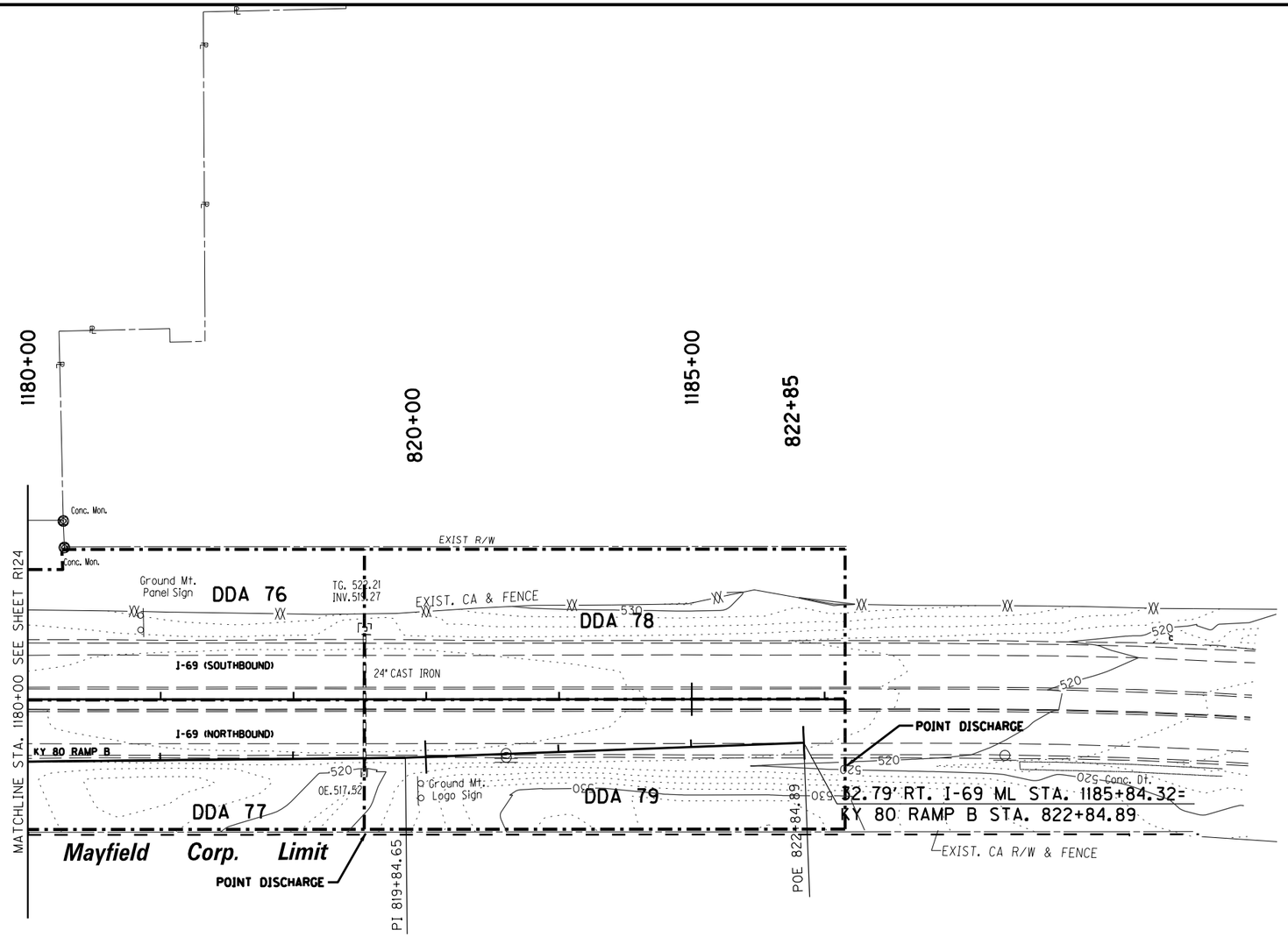
0' 50' 100' 200'

SCALE: 1"=50'

I-69/KY 80 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1165+00 TO 1180+00

FILE NAME: C:\PW_WORKDIR\WILL\DM501396\EC_SHEET9.DGN
USER: ryan-s
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R125



CASH FARM LANDS, LLC
(44)

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 76	0.755	2,718
DDA 77	0.673	2,423
DDA 78	0.940	3,384
DDA 79	0.813	2,927

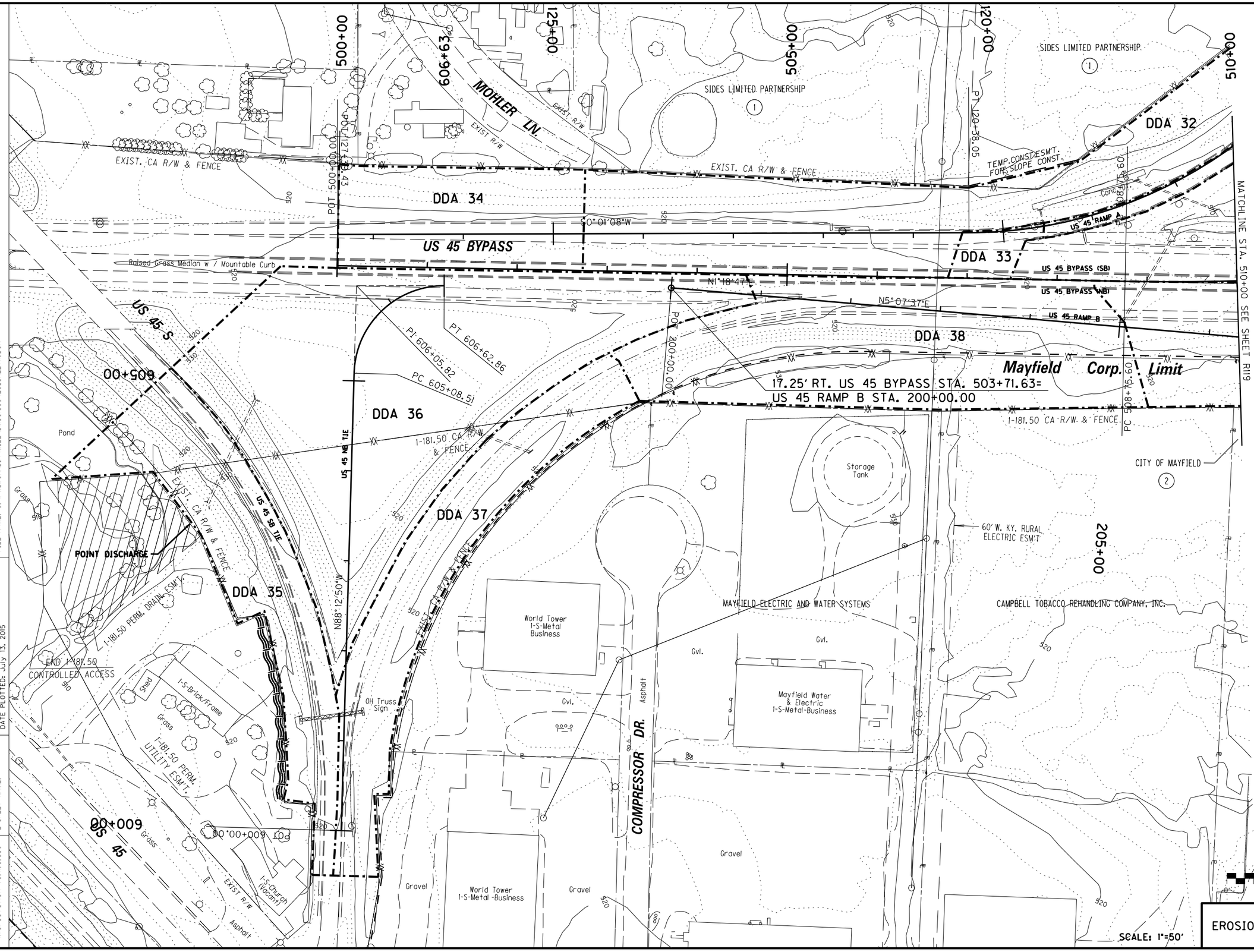
0' 50' 100' 200'

SCALE: 1"=50'

I-69/KY 80 INTERCHANGE
EROSION CONTROL SHEET I-69 ML
STA. 1180+00 TO P.O.E.

MicroStation v8.11.9.357
E-SHEET NAME:
USER: will
DATE PLOTTED: July 13, 2015
FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEET10.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.02	R126



EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1 — [A]
- SILT TRAP TYPE A ALTERNATE 2
- 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 32	2.166	7,798
DDA 33	0.096	346
DDA 34	0.713	2,567
DDA 35	0.993	3,576
DDA 36	2.680	9,648
DDA 37	0.944	3,399
DDA 38	1.667	6,002

I-69/US 45 INTERCHANGE
EROSION CONTROL SHEET US 45 BYPASS
P.O.B. TO STA. 510+00

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEETI1.DGN
USER: ryan-s
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.02	R127

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 58	7.031	25,312
DDA 60	0.782	2,816
DDA 61	3.034	10,923
DDA 62	3.176	11,434
DDA 63	2.231	8,032
DDA 64	0.667	2,402
DDA 65	0.319	1,149
DDA 66	0.069	249
DDA 70	2.174	7,827
DDA 71	5.026	18,094
DDA 72	1.925	6,930
DDA 73	1.720	6,192
DDA 74	1.123	4,043
DDA 75	4.857	17,486

BEGIN CONSTRUCTION STA. 42+42.94

POINT DISCHARGE

N. SUTTON LN.

S. SUTTON LN.

GRIFFIN AVE.

JAMES & MARY ST.

KY 80

KY 80 ML

KY 80 RAMP A

KY 80 RAMP B

KY 80 RAMP C

I-69 ML STA. 1162+12.23 = KY 80 ML STA. 504+15.62

I-69 (SOUTHBOUND)

I-69 (NORTHBOUND)

Mayfield Corp. Limit

DDA 58

DDA 60

DDA 61

DDA 62

DDA 63

DDA 64

DDA 65

DDA 66

DDA 70

DDA 71

DDA 72

DDA 73

DDA 74

DDA 75

JULIE W. MEYERS AND PHILLIP (HUSB) (32) 1-S-Block & Brick (Vacant)

4-H PROPERTIES, LLC

TRIFECTA CAPITAL, LLC Tract 1 Tract 2

ROBERT L. SULLIVAN AND BARBARA (WF) (33) Grass

LESTER B. BUTLER AND LORETTA (WF) (18) 1-S-Brick

LESLIE MICHELLE DUNKIN

BRYAN T. GREEN AND ELIZABETH N. (WF) (17) 1-S-Brick

LAURA KENDALL 1-S-Brick

PAUL B. WOODARD AND BARBARA (WF) 1-S-Brick

TERRY J. FOX (43) 1-S-Brick (Vacant)

GEORGE W. PETTY, JR. AND GEORGE C. PETTY (8) Garage

WASHROP AND WASHROP, LLC. 1-S-Metal-Business

EROSION CONTROL LEGEND

- SILT TRAP TYPE A ALTERNATE 1 [A]
- SILT TRAP TYPE A ALTERNATE 2
- 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

0' 50' 100' 200'

SCALE: 1"=50'

KY 80
EROSION CONTROL SHEET KY 80 ML
P.O.B. TO STA. 55+00

MATCHLINE STA. 55+00 SEE SHEET R128

FILE NAME: C:\PW_WORKDIR\WILL\DMS01396\EC_SHEETI2.DGN
USER: ryan-s
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.02	R128

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 67	0.162	584
DDA 68	0.125	450
DDA 69	0.730	2,628
DDA 75	4.857	17,486



SCALE: 1"=50'

0' 50' 100' 200'

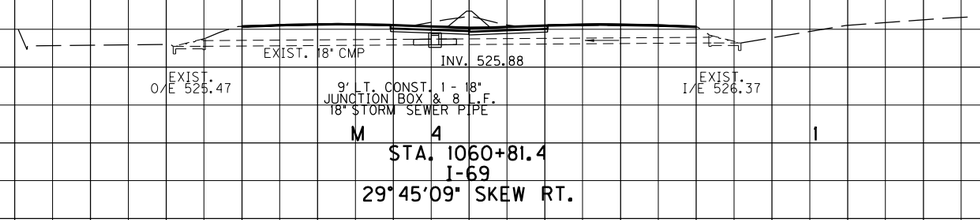
KY 80
EROSION CONTROL SHEET KY 80 ML
STA. 55+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS0396\EC_SHEET13.DGN
USER: will
DATE PLOTTED: July 13, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET

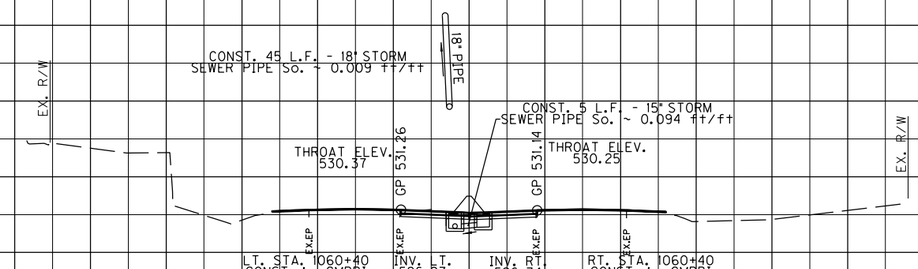
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R129

STORM SEWER PIPE							CULVERT PIPE						DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	DBI TYPE 5	DBI TYPE 12	DBI TYPE 15	CMBBI	JUNCTION BOX	24" PIPE CULVERT HEADWALL	24" S & F BOX INLET	METAL END SECTION TYPE 3-24" EQUIV.	CLASS "A" CONCRETE	STEEL REINFORCEMENT	DITCH EXCAVATION		
12"	15"	18"	24"	30"	36"	42"	15"	18"	24"	30"	36"	42"														
LINEAR FEET														FT	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	CU. YD	LBS.	CU. YD	



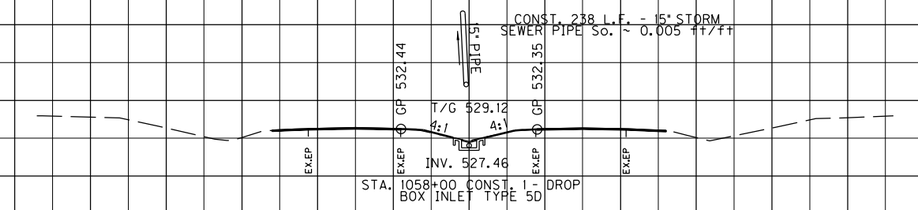
8 M 4 1

STA. 1060+81.4
I-69
29°45'09" SKEW RT.



5 45 M 3 2

STA. 1060+40
I-69
0° SKEW



STA. 1058+00
I-69
0° SKEW

238 M 3 1

SCALE: 1" = 20'

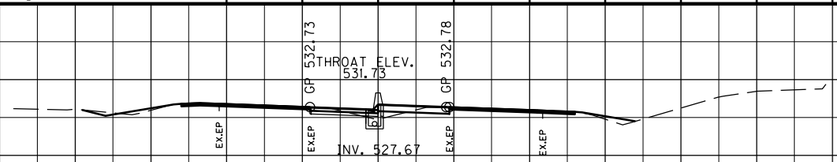
GRAVES COUNTY
I-69 PIPE SECTIONS
STA. 1058+00 TO STA. 1060+81.4

FILE NAME: C:\PW_WORKDIR\WILL\DMS01400\PIPE SHEETS_169.DGN
USER: ryan-s
DATE PLOTTED: July 20, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

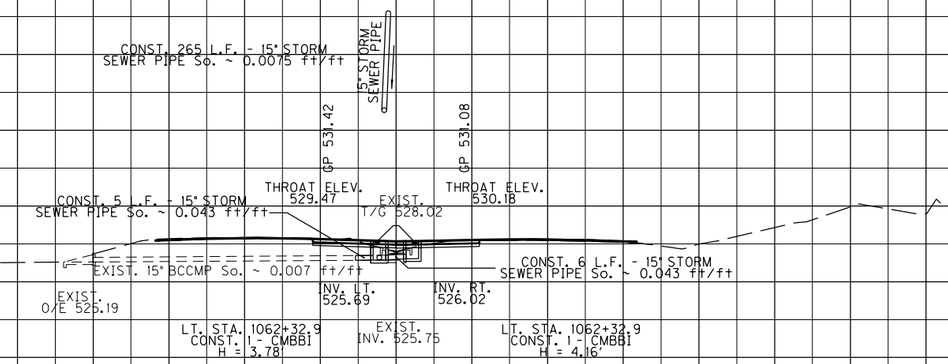
PIPE DRAINAGE SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R130

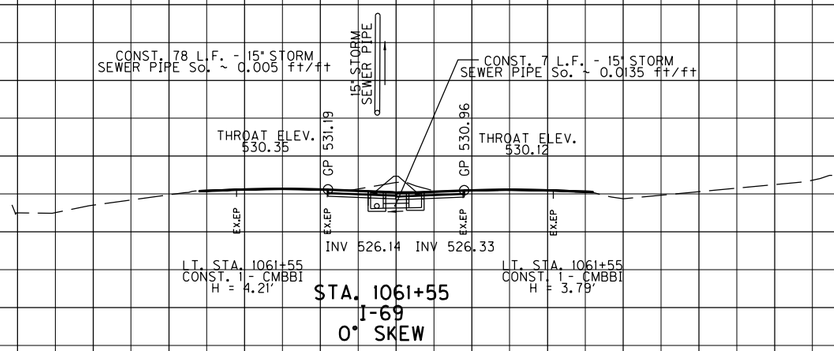
STORM SEWER PIPE							CULVERT PIPE						DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	DBI TYPE 1	DBI TYPE 12	DBI TYPE 15	CMBB1	JUNCTION BOX	24" PIPE CULVERT HEADWALL	24" S & F BOX INLET	METAL END SECTION TYPE 3-24" EQUIV.	CLASS "A" CONCRETE	STEEL REINFORCEMENT	DITCH EXCAVATION		
12"	15"	18"	24"	30"	36"	42"	15"	18"	24"	30"	36"	42"															
L I N E A R F E E T														FT	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	CU. YD	LBS.	CU. YD		



265 M 3 1



11 M 3 2



85 M 3 2

SCALE: 1" = 20'

GRAVES COUNTY
I-69 PIPE SECTIONS
STA. 1061+55 TO STA. 1065+00

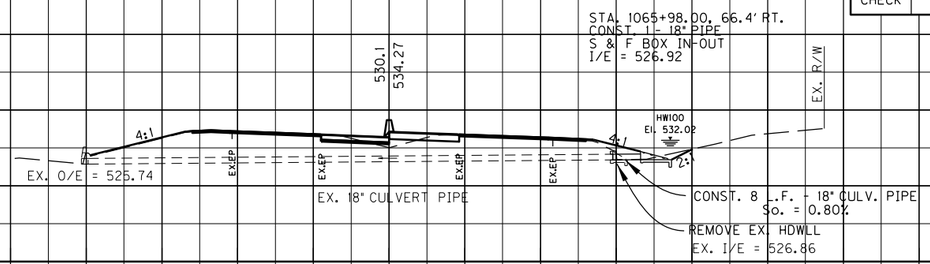
MicroStation v8.11.9.357 | E-SHEET NAME: | USER: ryan-s | DATE PLOTTED: July 20, 2015 | FILE NAME: C:\PW_WORKDIR\WILL\DMS01400\PIPE SHEETS_169.DGN

PIPE DRAINAGE SHEET 1 of 28

COUNTY OF	ITEM NO.	
GRAVES	1-234.20	R131

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	S & F BOX IN-OUT 24 IN
18"	24"	36"							18"	24"	30"							
LINEAR FEET																	FT.	EACH
										8						M	2.5	1

STA. 1065+98 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	8.7	531.00
CHECK	100	9.7	532.02



560 540 520 500

-300 -280 -260 -240 -220 -200 -180 -160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

1065+98
Skew 0°00'00"

SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1065+98
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 1065+98 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 2 of 28

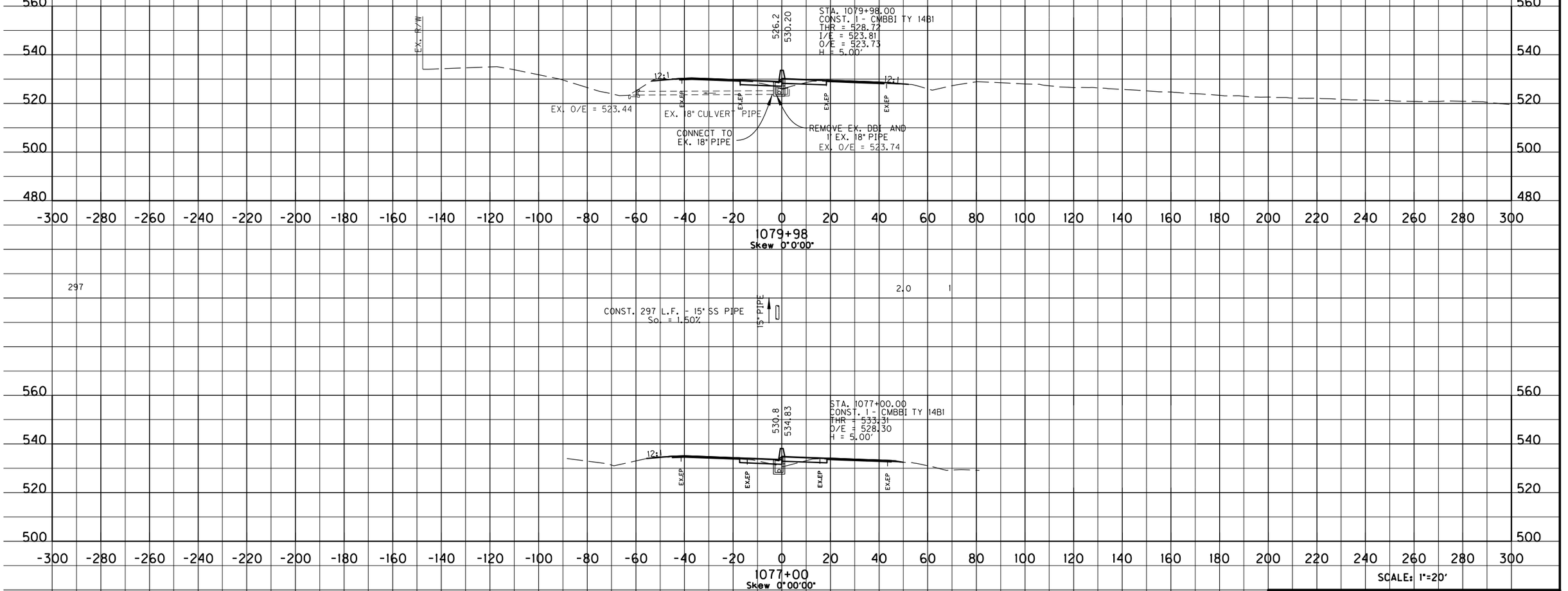
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R132

| STORM SEWER PIPE | | | | | | | | | CULVERT PIPE | | | | | | | | |

PIPE DRAINAGE SHEET 3 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R133

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"							18"	24"	30"							
L I N E A R F E E T																	FT.	EACH
																M	2.0	1



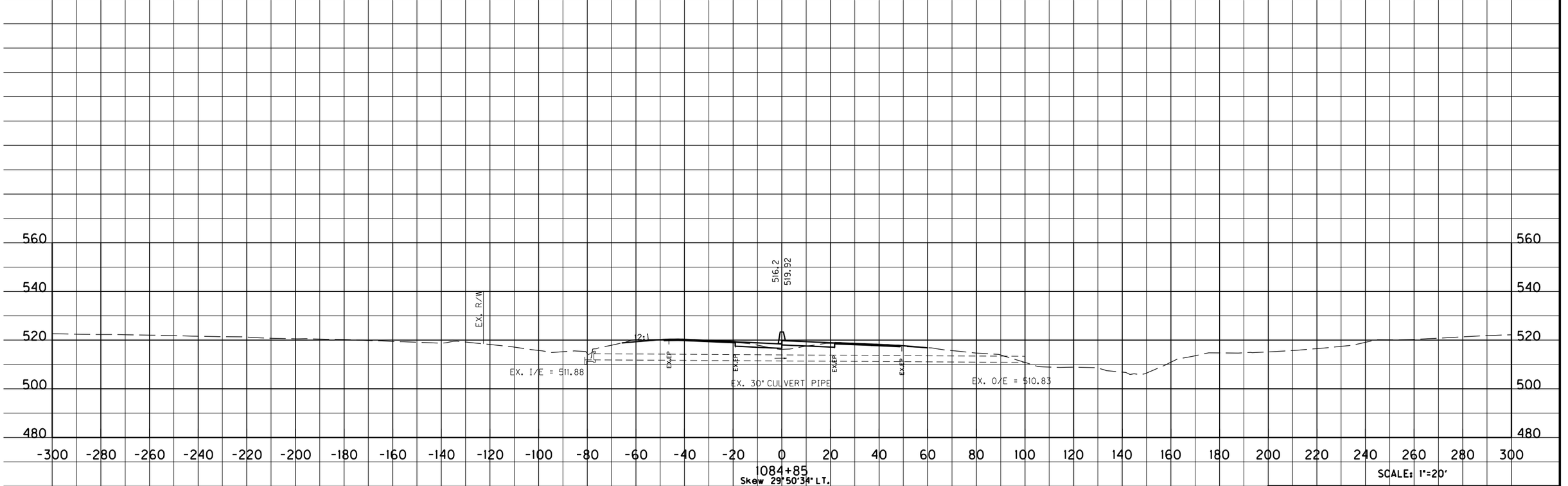
I-69 / KY 80 INTERCHANGE
STA. 1077+00 TO STA. 1079+98
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 1079+98 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 4 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R134

STORM SEWER PIPE									CULVERT PIPE																
18"	24"	36"							18"	24"	30"														
L I N E A R F E E T																									



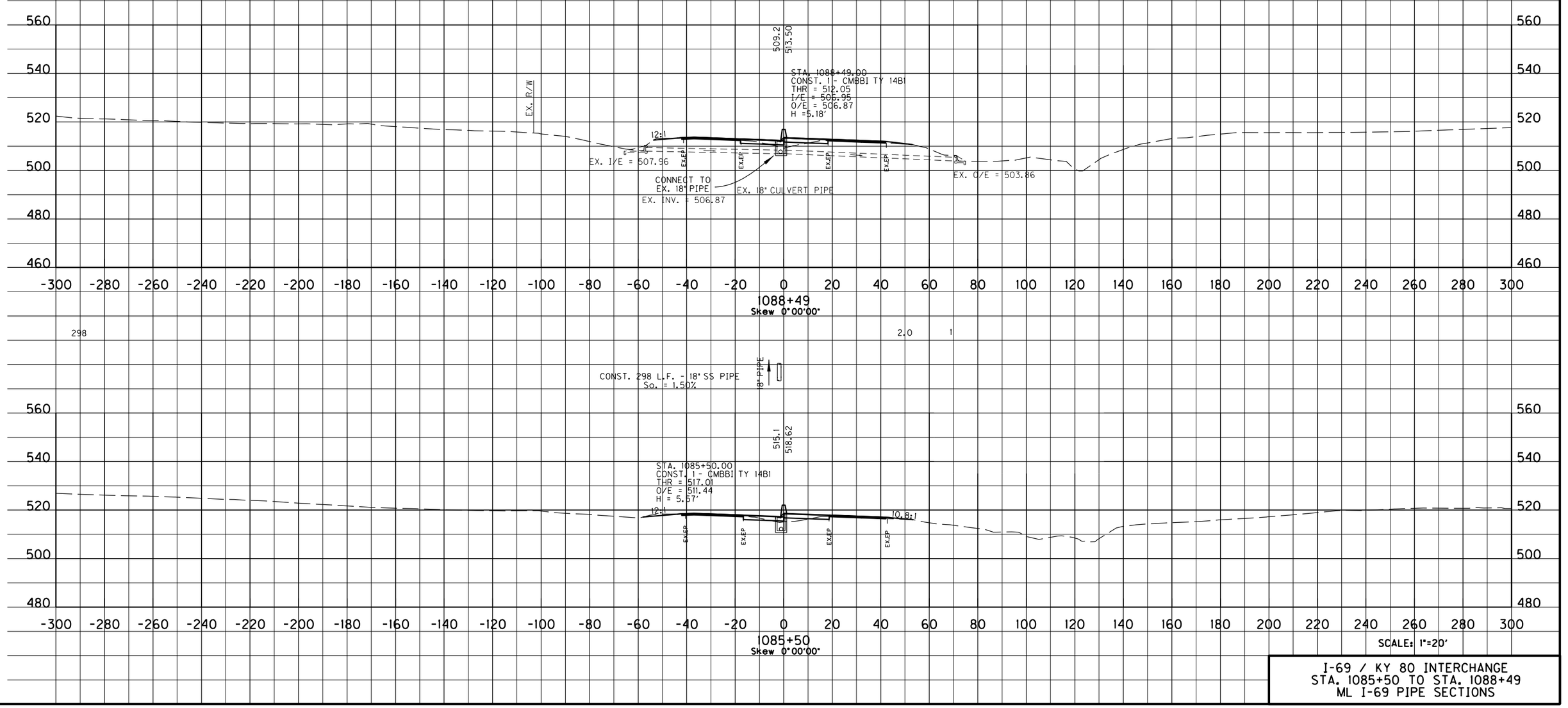
I-69 / KY 80 INTERCHANGE
STA. 1084+85
ML I-69 PIPE SECTIONS

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 1084+85 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 5 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R135

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
18"	24"	36"							18"	24"	30"							
L I N E A R F E E T																	FT.	EACH
																M	2.0	1



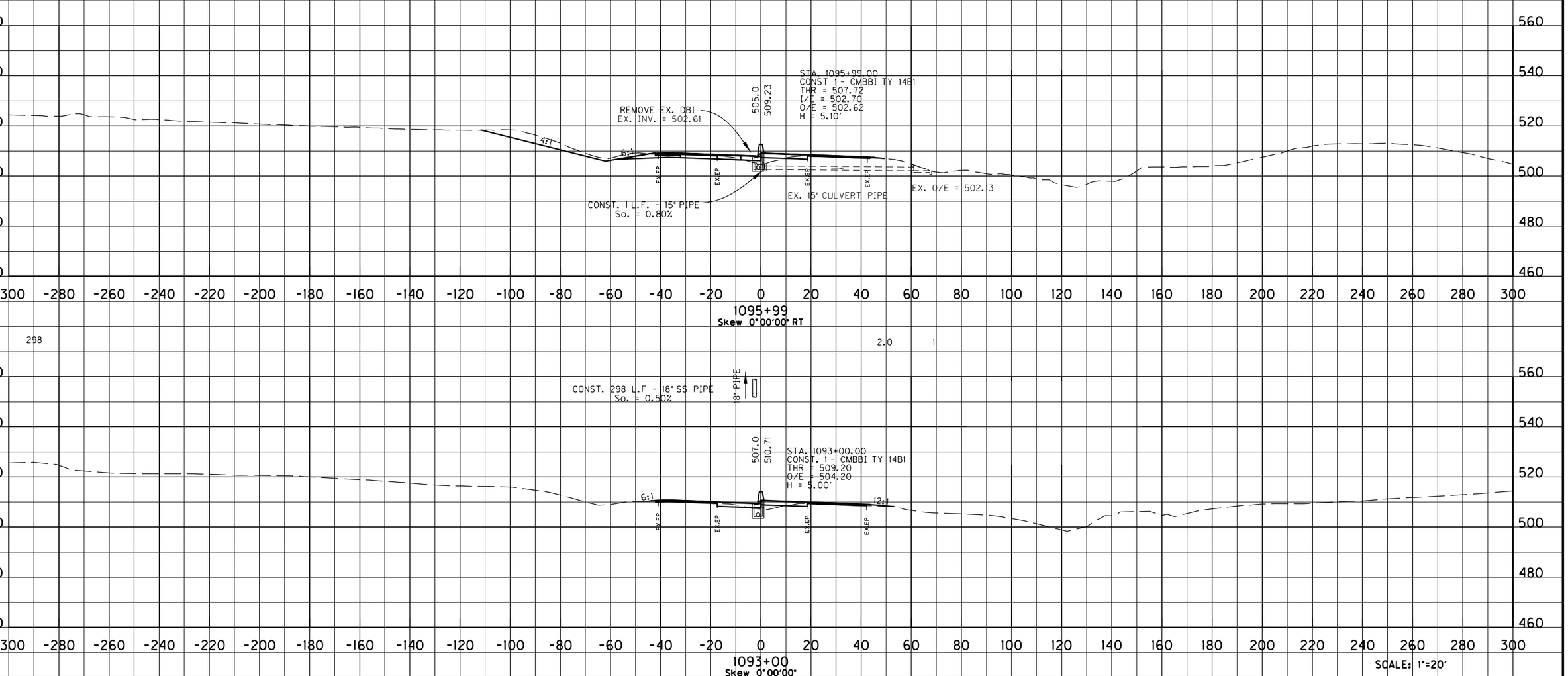
I-69 / KY 80 INTERCHANGE
STA. 1085+50 TO STA. 1088+49
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1088+49 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 6 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R136

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"							18"	24"	30"							
L I N E A R F E E T																	FT.	EACH
1																M	2.0	1



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1093+00 TO STA. 1095+99
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1095+99 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

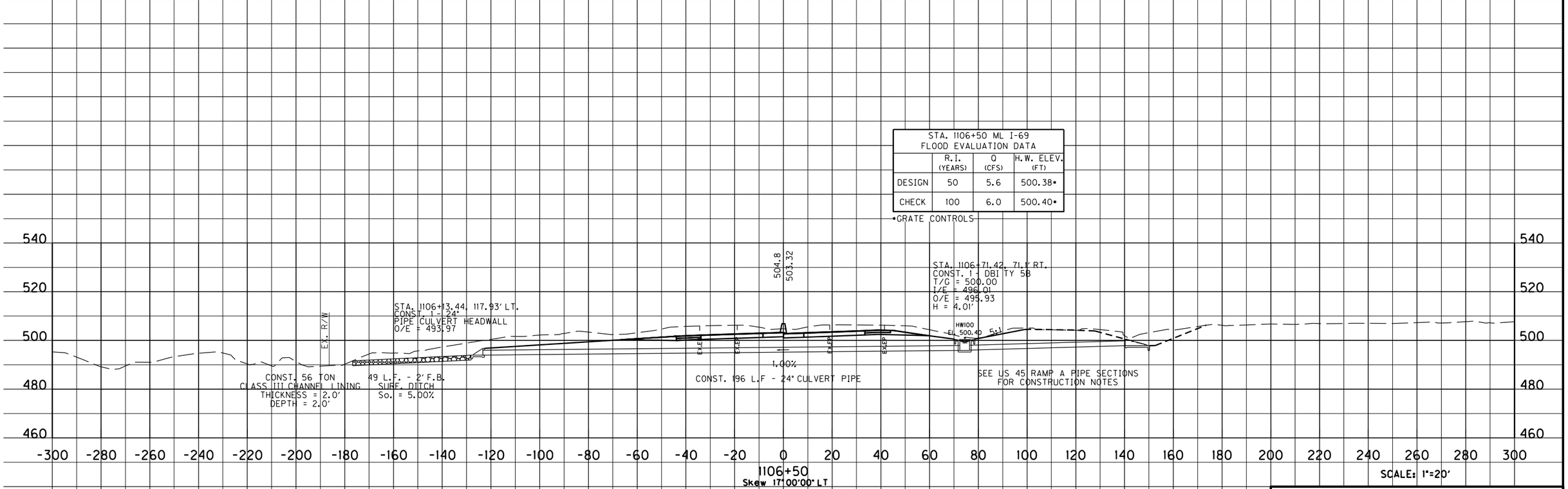
PIPE DRAINAGE SHEET 7 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R137

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	DBI TY 5B	PIPE CULVERT HEADWALL 24 IN	CLASS III CHANNEL LINING
18"	24"	36"							18"	24"	30"									
LINEAR FEET																	FT.	EACH	EACH	TON
										196						M	4.0	1	1	56

STA. 1106+50 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	5.6	500.38•
CHECK	100	6.0	500.40•

•GRATE CONTROLS



I-69 / KY 80 INTERCHANGE
STA. 1106+50
ML I-69 PIPE SECTIONS

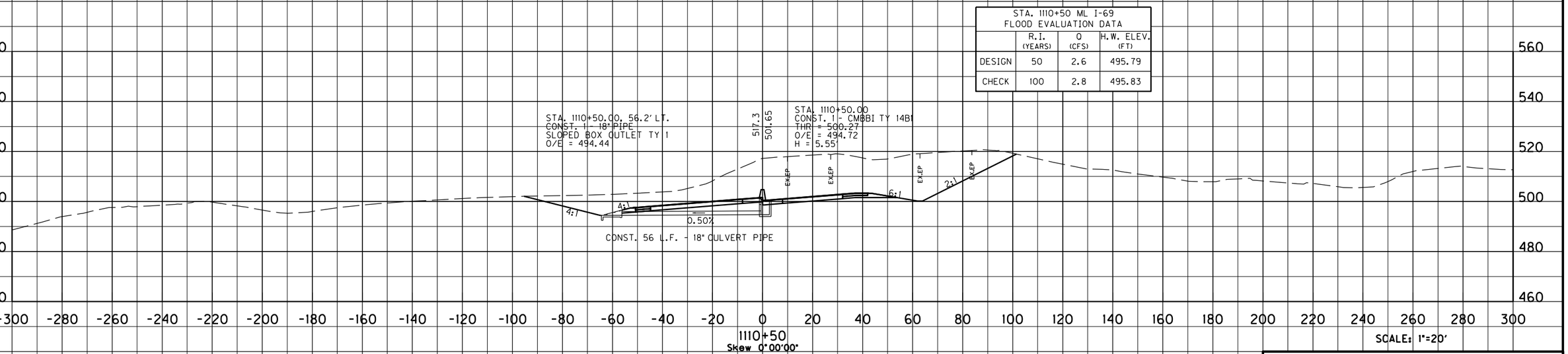
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1106+50 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 8 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R138

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI	SLOPED BOX OUTLET TY 1 18 IN
18"	24"	36"							18"	24"	30"								
LINEAR FEET																	FT.	EACH	EACH
									56							M	3.5	1	1

STA. 1110+50 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	2.6	495.79
CHECK	100	2.8	495.83



SCALE: 1"=20'

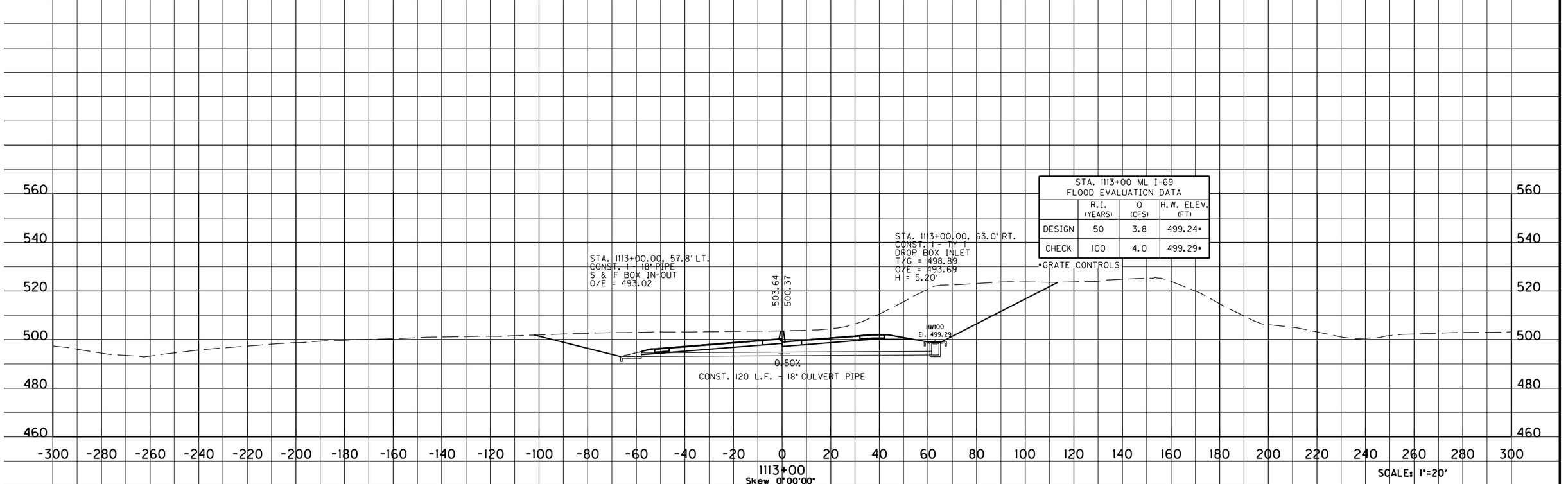
I-69 / KY 80 INTERCHANGE
STA. 1110+50
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1110+50 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: July 22, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 9 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	RI39

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	DROP BOX INLET TYPE I	S & F BOX IN-OUT 18 IN
18"	24"	36"							18"	24"	30"								
LINEAR FEET																	FT.	EACH	EACH
									120							M	5.0	1	1



STA. 1113+00 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	3.8	499.24•
CHECK	100	4.0	499.29•

I-69 / KY 80 INTERCHANGE
STA. 1113+00
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1113+00 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 10 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R140

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI	S & F BOX IN-OUT 24" IN	CLASS III CHANNEL LINING
15"	18"	24"	30"						18"	24"	30"									
L I N E A R F E E T																	FT.	EACH	EACH	TON
		118														M	2.0	1	2	6

STA. 1116+80 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	13.5	497.30
CHECK	100	14.5	497.42

STA. 1160+80.00, 64.7' LT.
CONST. 1 - 24" PIPE
S & F BOX IN-OUT
O/E = 489.27

506.0
498.44

STA. 1116+80.00
CONST. 1 - CMBBI TY 14BI
THR = 497.04
I/E = 492.09
O/E = 492.01
H = 5.03'

STA. 1116+80.00, 59.4' RT.
CONST. 1 - 24" PIPE
S & F BOX INLET
I/E = 495.29

HWIOD
El. 497.42

EX.EP

4:1

4.30%

CONST. 64 - L.F.
24" STORM SEWER PIPE

6.00%

CONST. 54 - L.F.
30" STORM SEWER PIPE

5 L.F. - 2' F.B.
SURF. DITCH
So. = 5.30%

CONST. 6 TON
CLASS III CHANNEL LINING
THICKNESS = 2.0'
DEPTH = 2.0'

560 540 520 500 480 460

-300 -280 -260 -240 -220 -200 -180 -160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

1116+80
Skew 0°00'00"

159

1.0

1

CONST. 159 L.F. - 18" SS PIPE
So. = 1.00%

18" SS PIPE

499.1
499.22

STA. 1115+20.00
CONST. 1 - CMBBI TY 14BI
THR = 497.82
O/E = 493.68
H = 4.14'

1115+20
Skew 0°00'00"

SCALE: 1"=20'

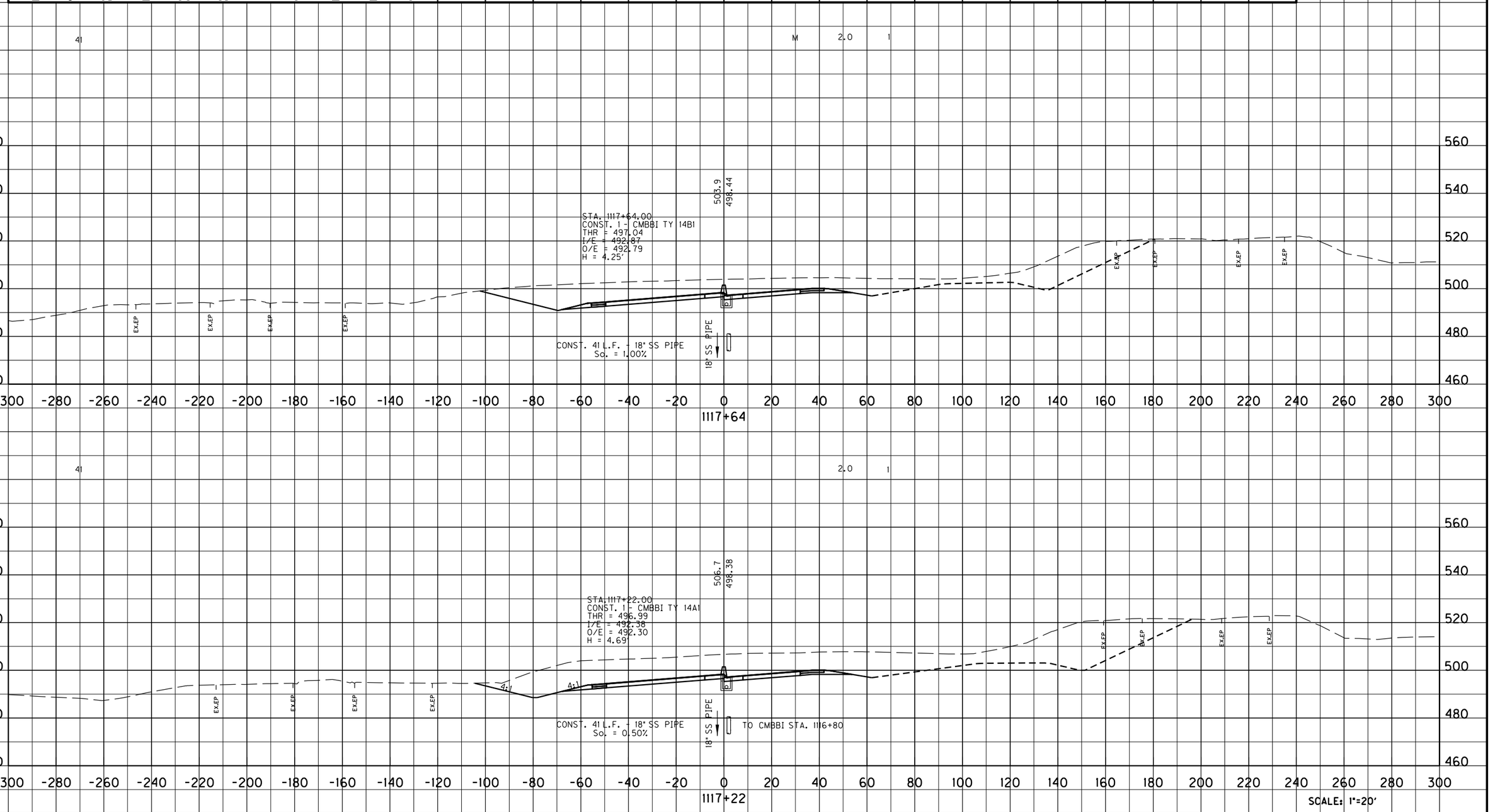
I-69 / KY 80 INTERCHANGE
STA. 1115+20 TO STA. 1116+80
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1116+80 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 11 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R141

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14A1
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
	41															M	2.0	1



SCALE: 1"=20'

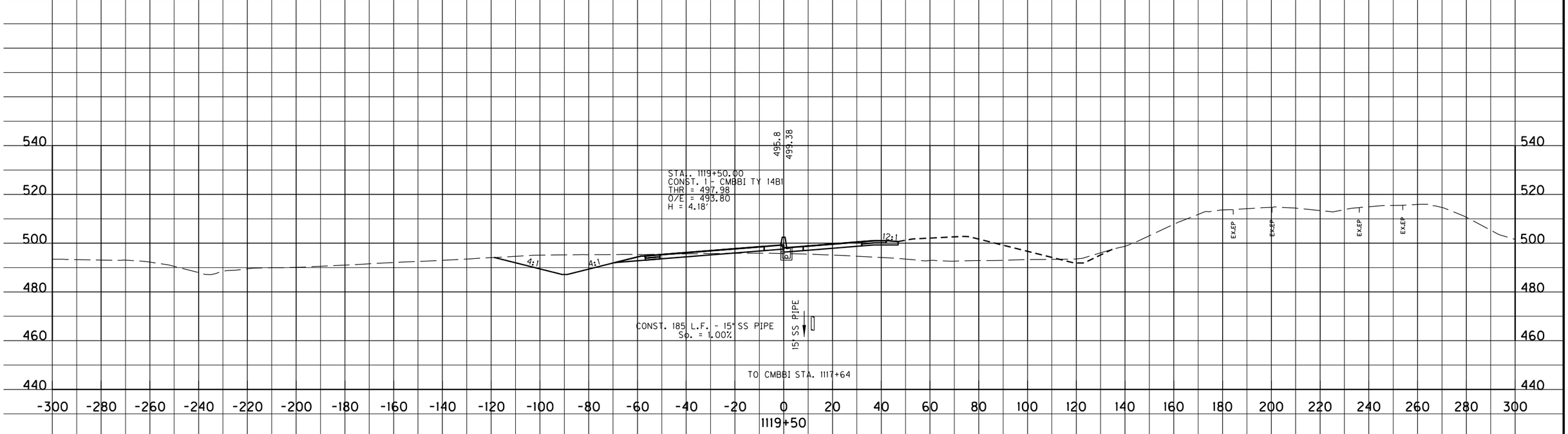
I-69 / KY 80 INTERCHANGE
STA. 1117+22 TO STA. 1117+64
ML I-69 PIPE SECTIONS

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1117+64 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 12 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R142

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
	185															M	1.0	1



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1119+50
ML I-69 PIPE SECTIONS

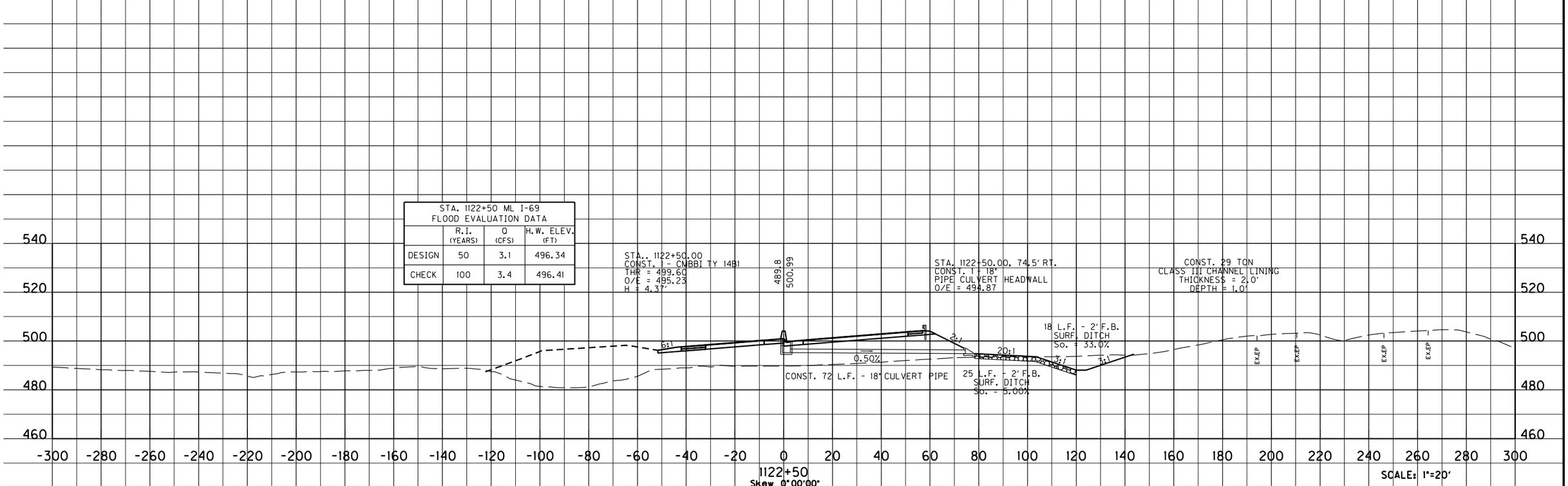
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1119+50 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 13 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R143

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI	PIPE CULVERT HEADWALL 18 IN	CLASS III CHANNEL LINING							
15"	18"	24"	30"						18"	24"	30"																
L I N E A R F E E T																	FT.	EACH	EACH	TON							
									72							M	6.5	1	1	29							

STA. 1122+50 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	3.1	496.34
CHECK	100	3.4	496.41



SCALE: 1"=20'

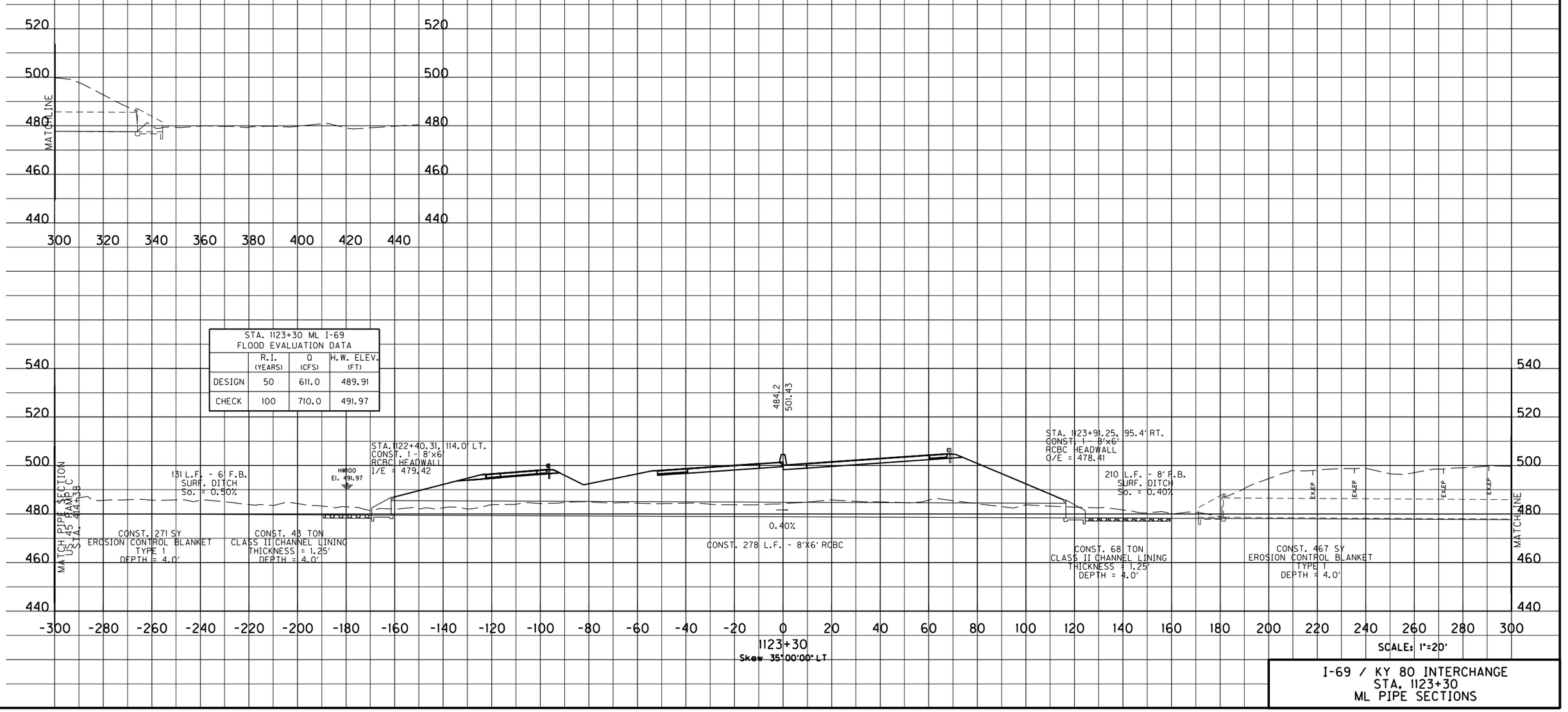
I-69 / KY 80 INTERCHANGE
STA. 1122+50
ML I-69 PIPE SECTIONS

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1122+50 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 14 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R144

STORM SEWER PIPE									CULVERT PIPE						DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	8'X6' RCBC HEADWALL	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET							
15"	18"	24"	30"						8'X6' RCBC																	
L I N E A R F E E T																FT.	EACH	TON	SY							
									278						M	18.0	2	111	738							



STA. 1123+30 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	611.0	489.91
CHECK	100	710.0	491.97

SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1123+30
ML PIPE SECTIONS

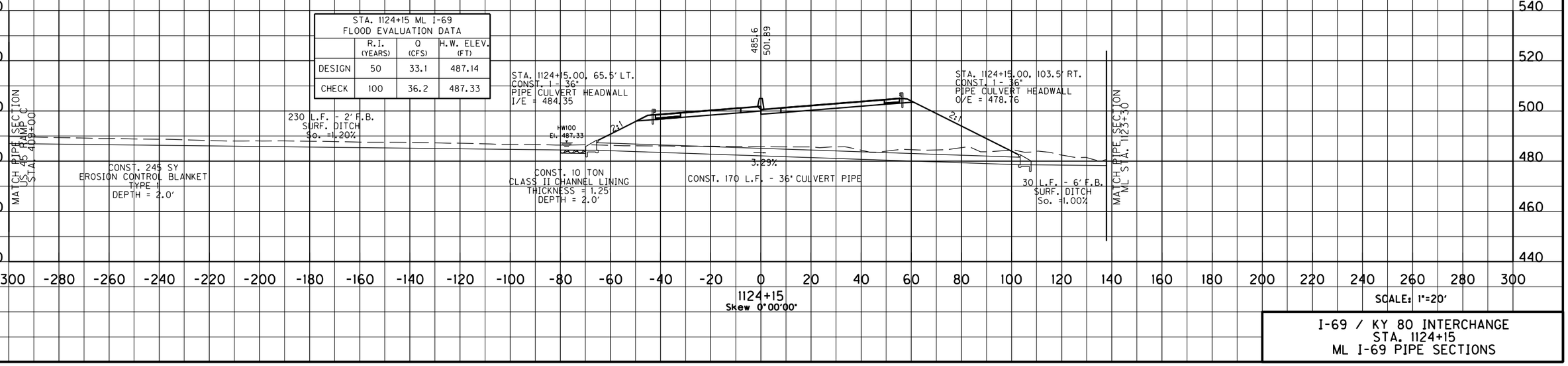
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1123+30 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 15 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R145

STORM SEWER PIPE									CULVERT PIPE							DESIGN P-H LEVEL	MAXIMUM COVER HEIGHT	PIPE CULVERT HEADWALL 36 IN	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET
15"	18"	24"	30"						24"	30"	36"									
LINEAR FEET																	FT.	EACH	TON	SY
											170					M	20.5	2	10	245

STA. 1124+15 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	33.1	487.14
CHECK	100	36.2	487.33



SCALE: 1"=20'

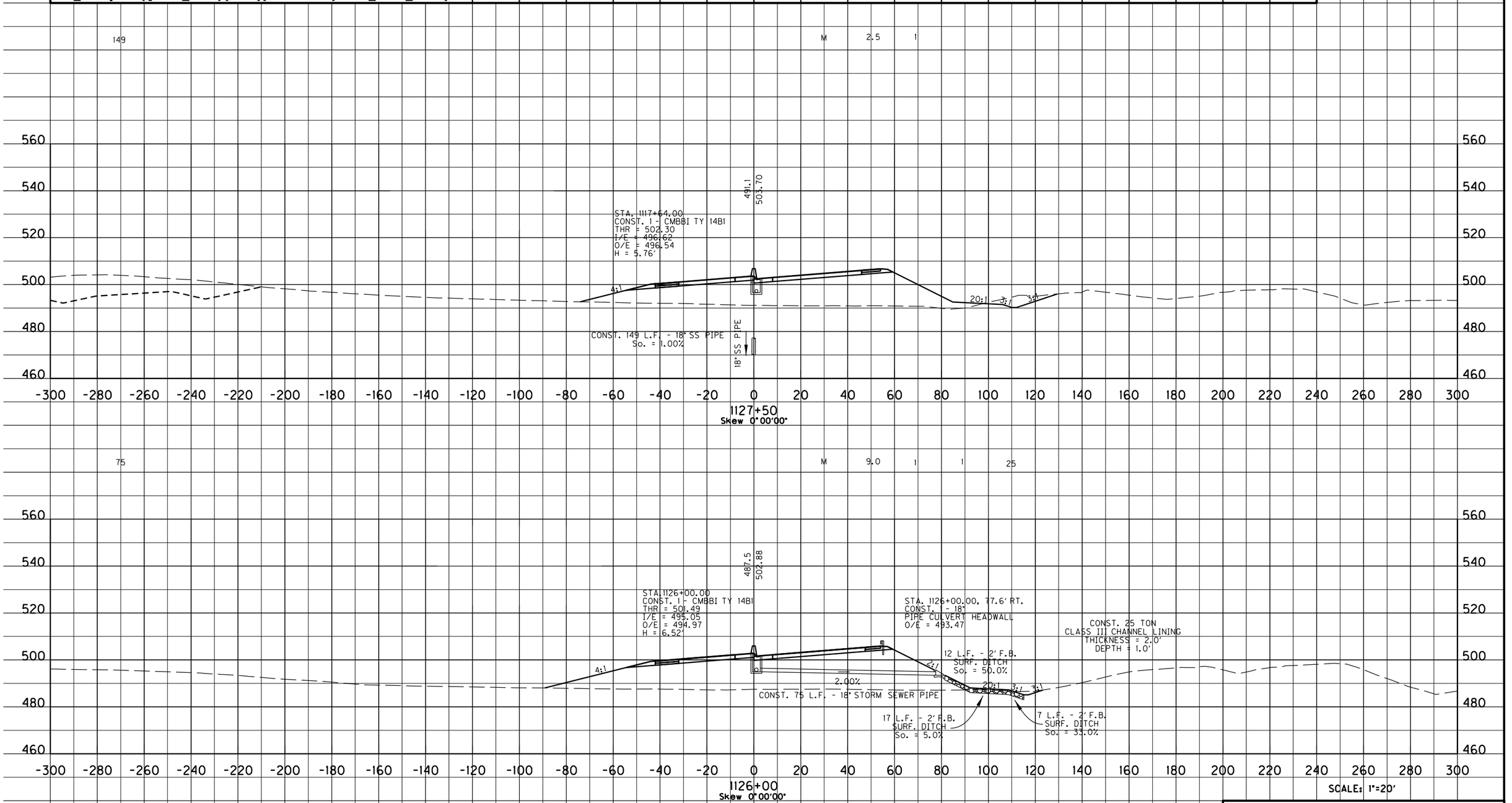
I-69 / KY 80 INTERCHANGE
STA. 1124+15
ML I-69 PIPE SECTIONS

MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1124+15 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 16 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R146

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI	PIPE CULVERT HEADWALL 18 IN	CLASS II CHANNEL LINING						
15"	18"	24"	30"						18"	24"	30"															
L I N E A R F E E T																	FT.	EACH	EACH	TON						
	149															M	2.5	1								



SCALE: 1"=20'

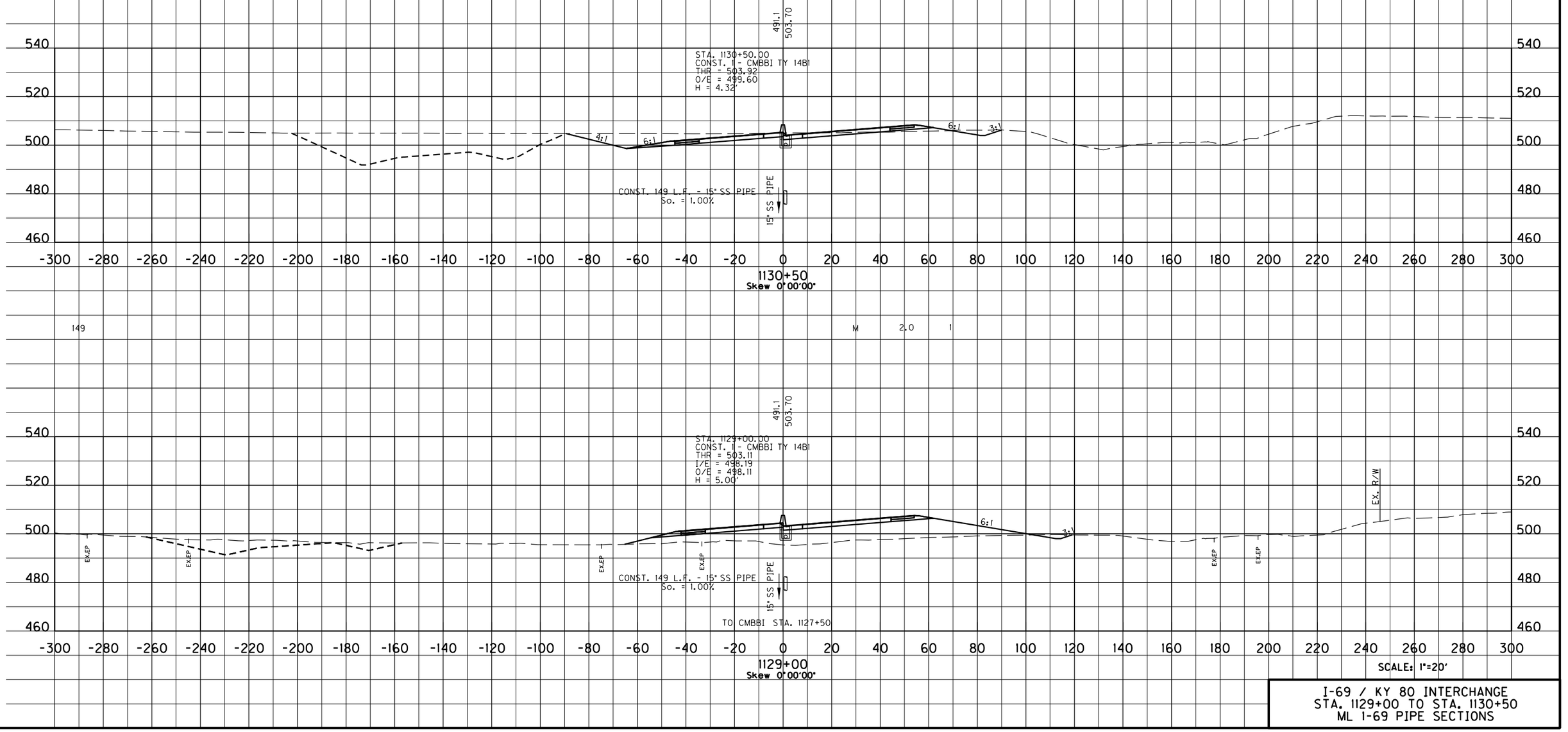
I-69 / KY 80 INTERCHANGE
STA. 1126+00 TO STA. 1127+50
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1126+00 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.836

PIPE DRAINAGE SHEET 17 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R147

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
149																M	2.0	1



SCALE: 1"=20'

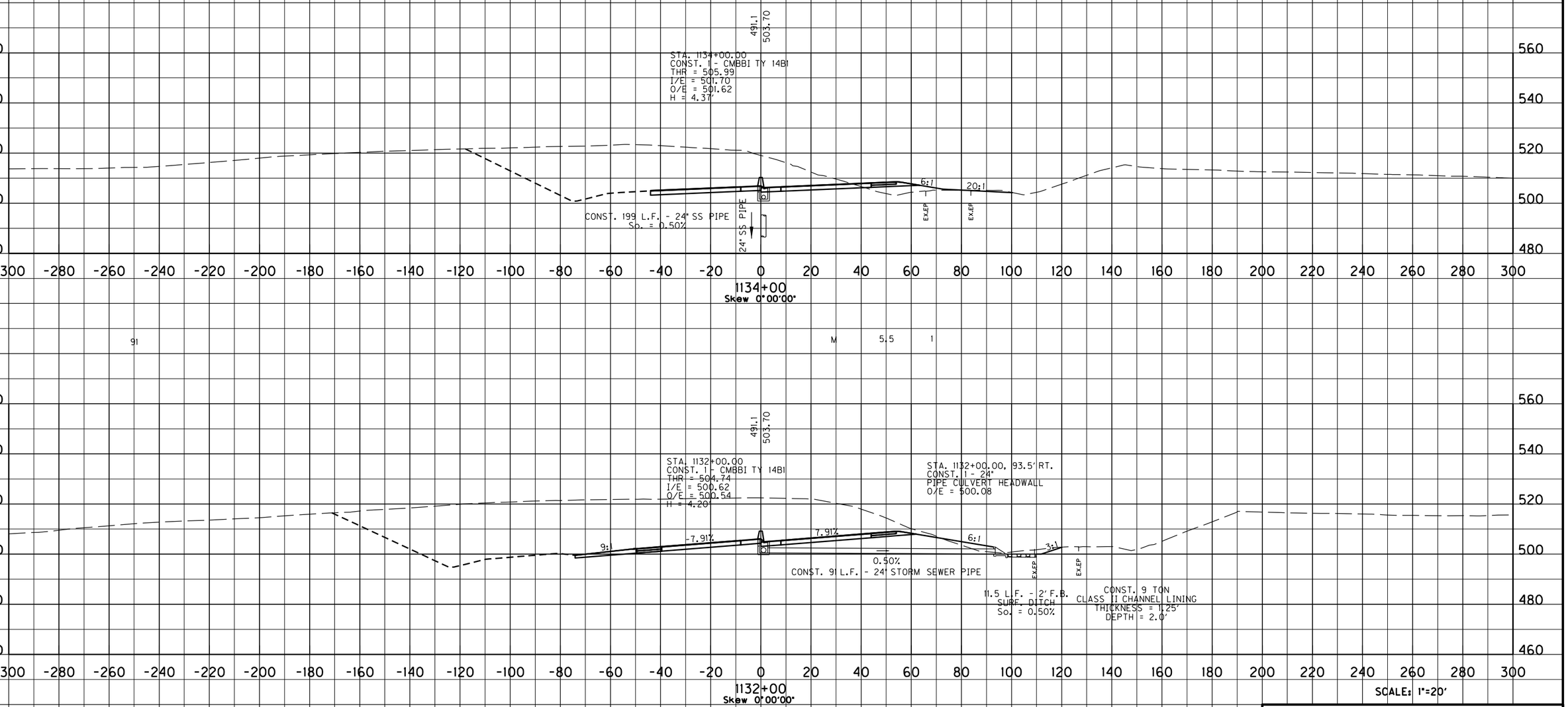
I-69 / KY 80 INTERCHANGE
STA. 1129+00 TO STA. 1130+50
ML 1-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1129+00 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 18 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R148

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI	CLASS II CHANNEL LINING
15"	18"	24"	30"						18"	24"	30"								
LINEAR FEET																	FT.	EACH	TON
		199														M	2.0	1	9
		91														M	5.5	1	



SCALE: 1"=20'

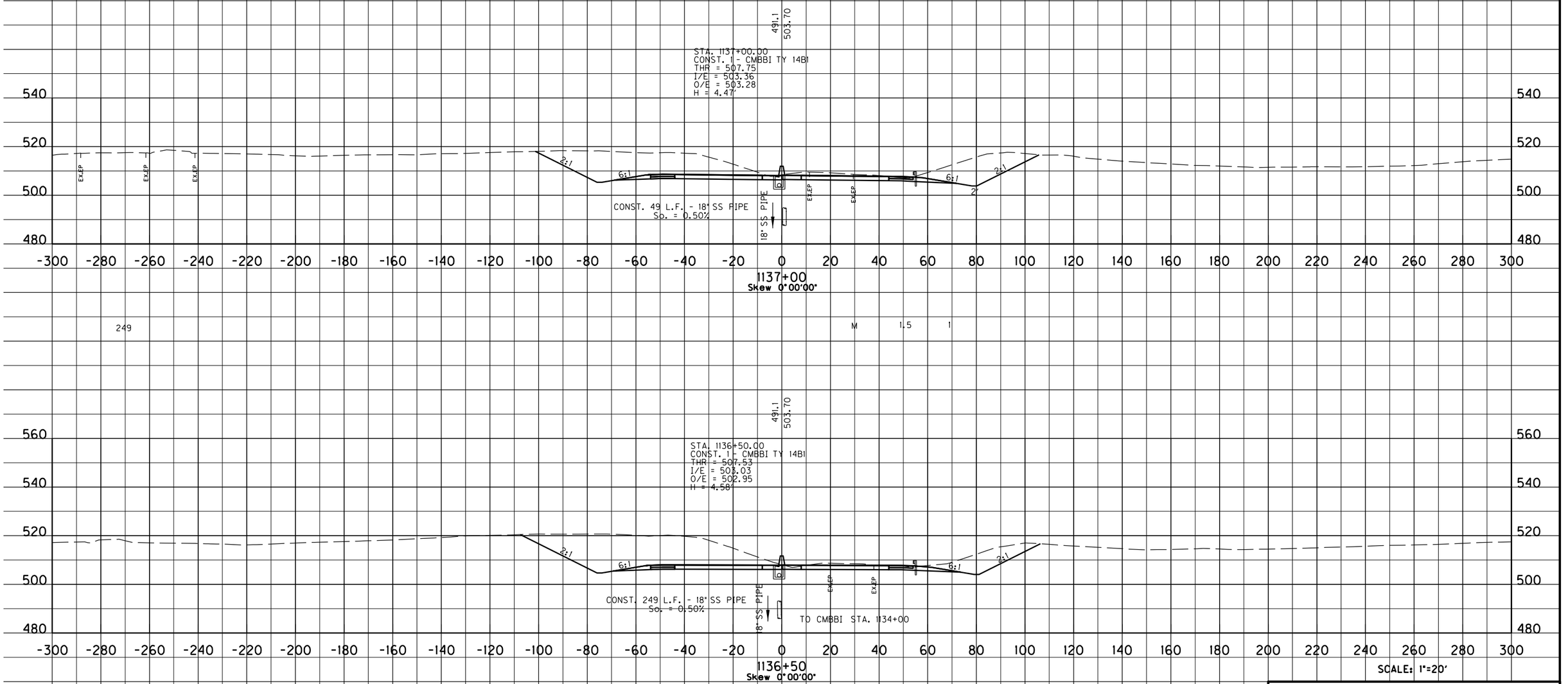
I-69 / KY 80 INTERCHANGE
STA. 1132+00 TO STA. 1134+00
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1132+00 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.836

PIPE DRAINAGE SHEET 19 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R149

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"	30"						18"	24"	30"							
L I N E A R F E E T																	FT.	EACH
	49															M	1.5	1



SCALE: 1"=20'

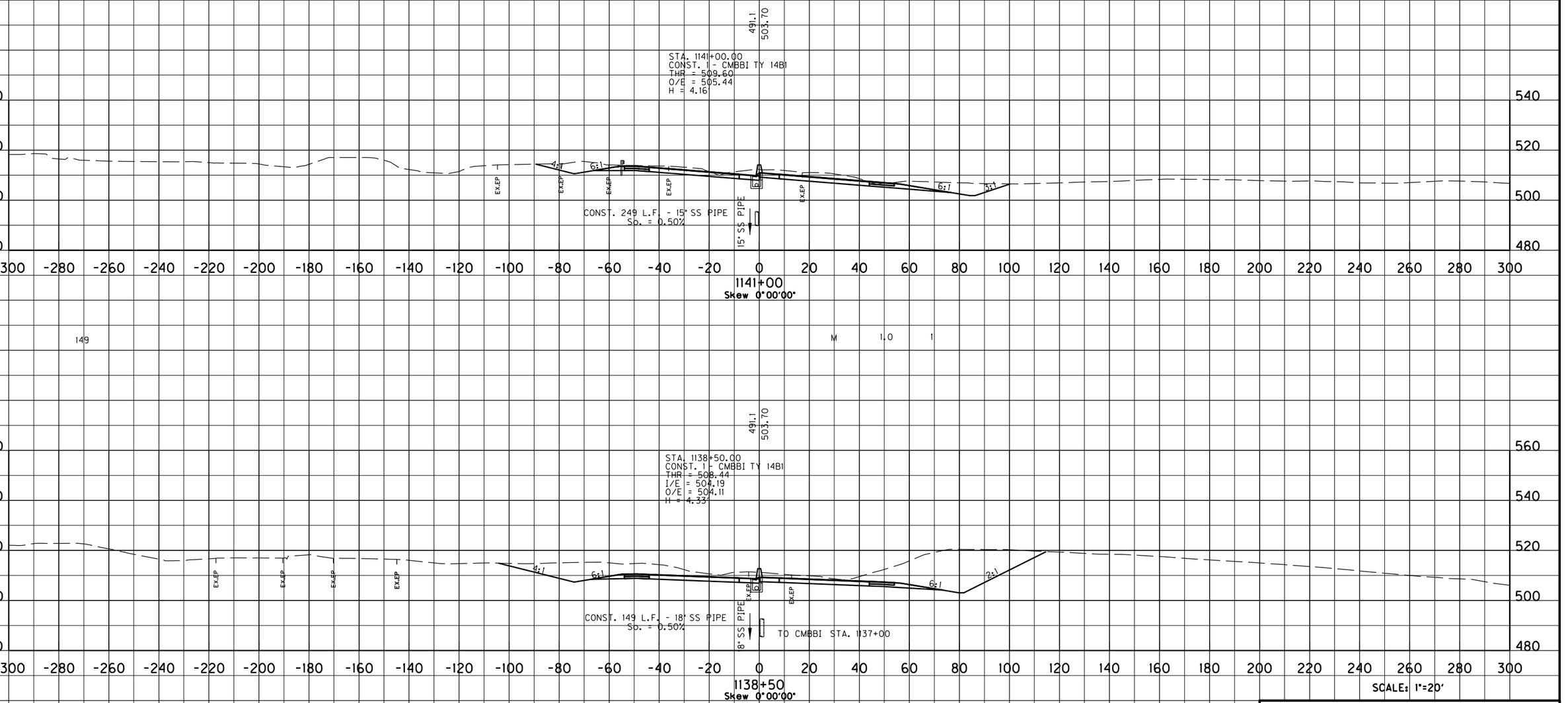
I-69 / KY 80 INTERCHANGE
STA. 1136+50 TO STA. 1137+00
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1136+50 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.836

PIPE DRAINAGE SHEET 20 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R150

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"	30"						18"	24"	30"							
L I N E A R F E E T																	FT.	EACH
249																M	1.0	1
149																M	1.0	1



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1138+50 TO STA. 1141+00
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1138+50 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.836

PIPE DRAINAGE SHEET 21 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R151

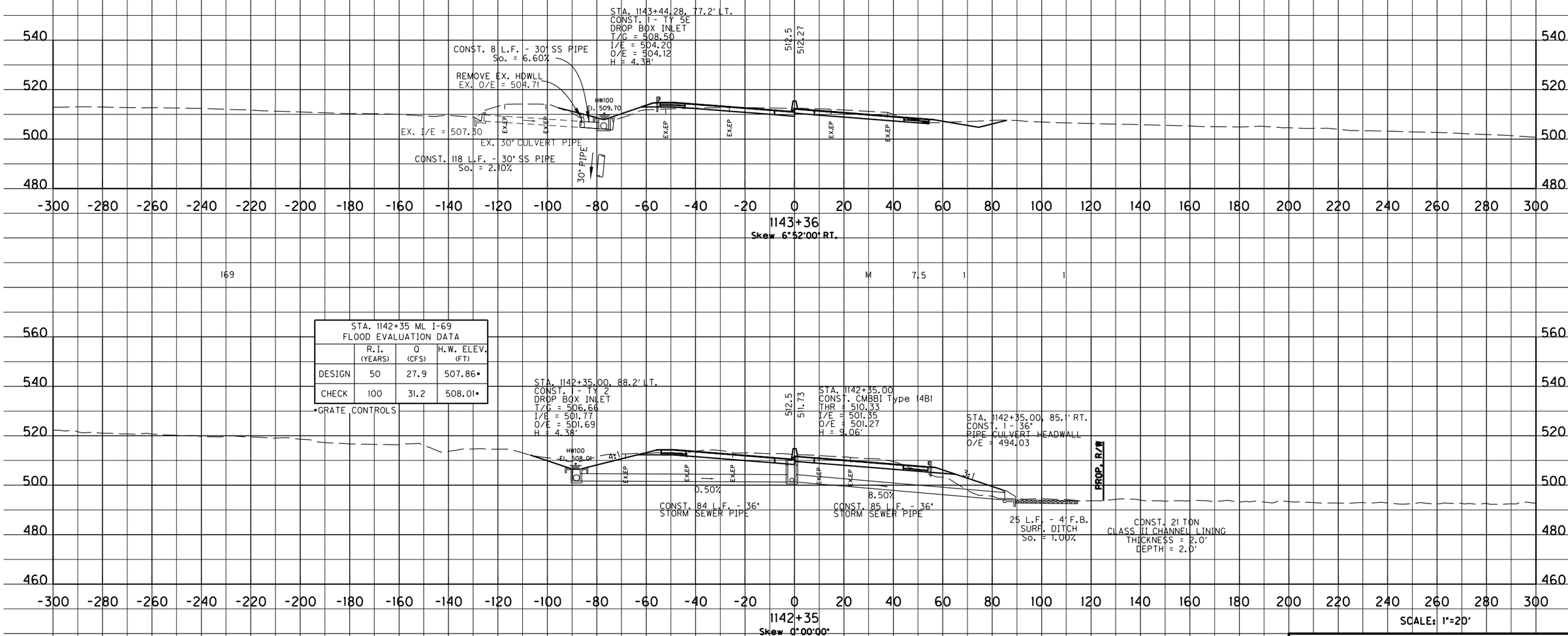
STORM SEWER PIPE									CULVERT PIPE							DESIGN FLOW LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI	36 IN PIPE CULVERT HEADWALL	DROP BOX INLET TY 2	DROP BOX INLET TYPE 5E	CLASS II CHANNEL LINING				
18"	24"	30"	36"						24"	30"	36"															
L I N E A R F E E T																	FT.	EACH	EACH	EACH	EACH	TON				
		118														M	1.5				1	21				
		169														M	7.5	1			1					

STA. 1143+36 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	22.8	509.60
CHECK	100	25.1	509.70

*GRATE CONTROLS

STA. 1142+35 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	27.9	507.86*
CHECK	100	31.2	508.01*

*GRATE CONTROLS



SCALE: 1"=20'

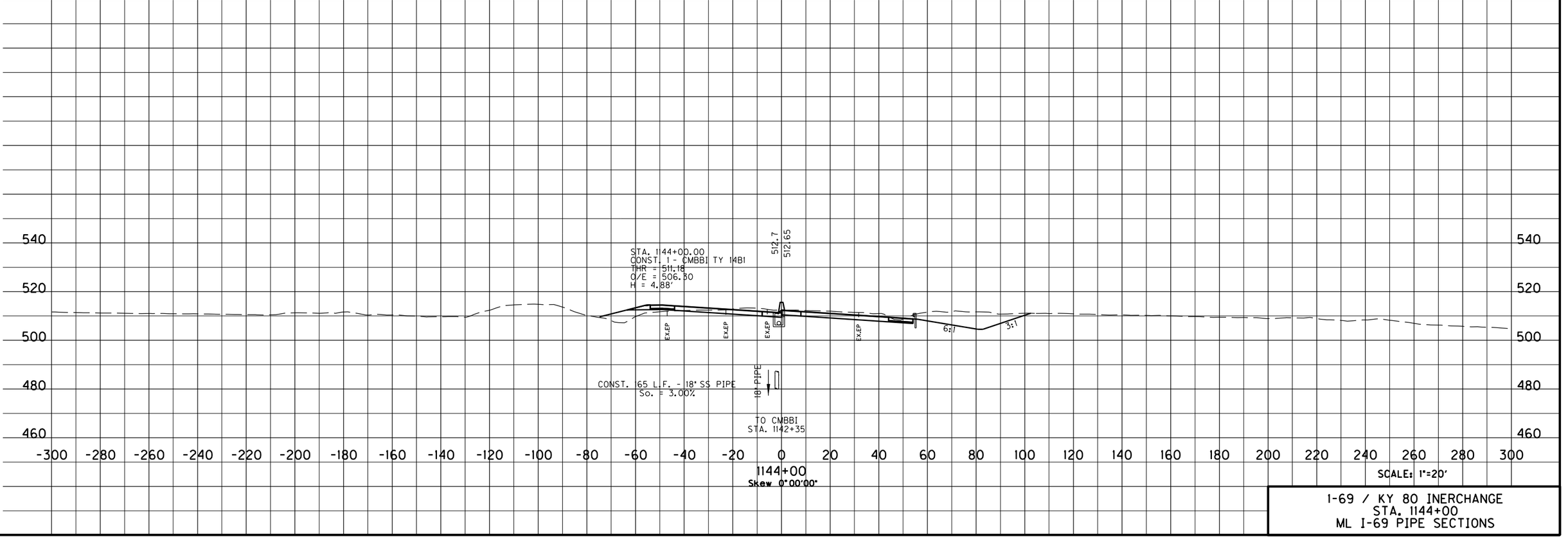
I-69 / KY 80 INTERCHANGE
STA. 1142+35 TO STA. 1143+36
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1142+35 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.836

PIPE DRAINAGE SHEET 22 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R152

STORM SEWER PIPE									CULVERT PIPE							DESIGN FILL LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
18"	24"	30"	36"						24"	30"	36"							
L I N E A R F E E T																	FT.	EACH
165																M	1.5	1



1-69 / KY 80 INERCHANGE
STA. 1144+00
ML I-69 PIPE SECTIONS

MicroStation v8.11.9.536
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1144+00 PIPE SECTION.DGN

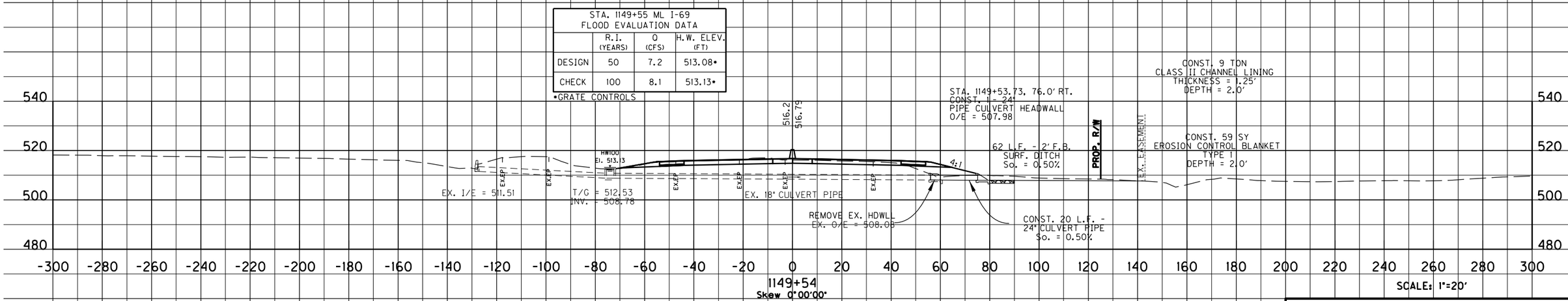
PIPE DRAINAGE SHEET 23 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R153

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	PIPE CULVERT HEADWALL 24 IN	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET
15"	18"	24"	30"						18"	24"	30"									
LINEAR FEET																	FT.	EACH	TON	SY
										20						M	3.0	1	9	59

STA. 1149+55 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	7.2	513.08•
CHECK	100	8.1	513.13•

•GRATE CONTROLS



SCALE: 1"=20'

I-60 / KY 80 INTERCHANGE
STA. 1149+54
ML I-69 PIPE SECTIONS

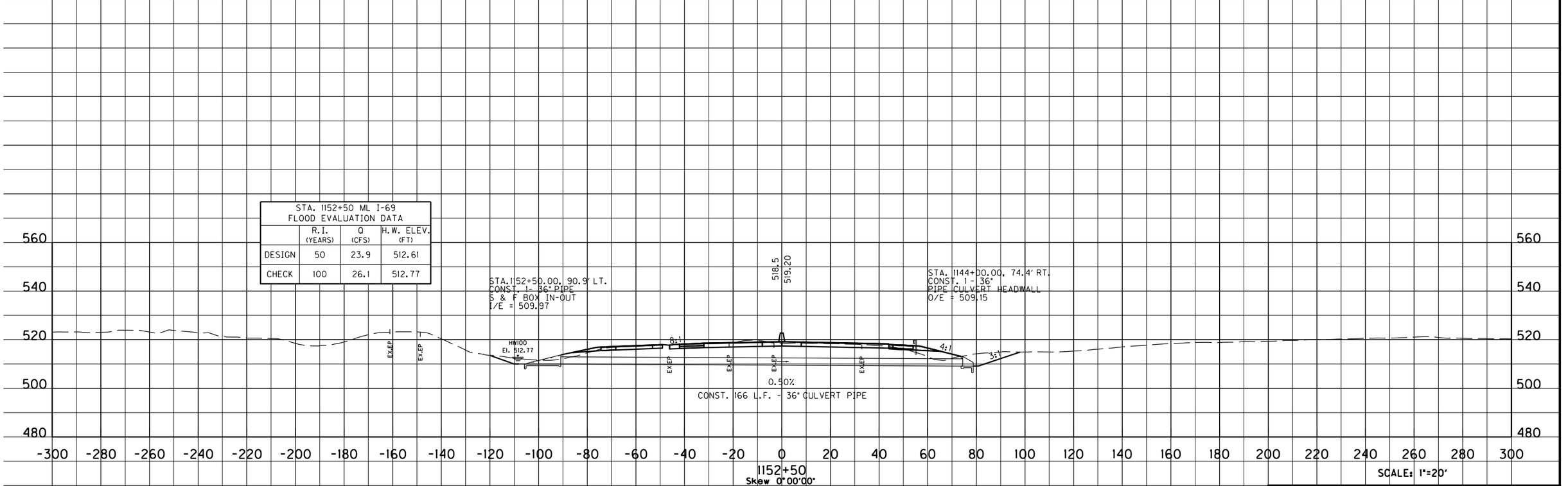
MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1149+54 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 24 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R154

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	S & F BOX IN-OUT 36 IN	PIPE CULVERT HEADWALL 36 IN
15"	18"	24"	30"						24"	30"	36"								
LINEAR FEET																	FT.	EACH	EACH
											166					M	4.5	1	1

STA. 1152+50 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	23.9	512.61
CHECK	100	26.1	512.77



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1152+50
ML I-69 PIPE SECTIONS

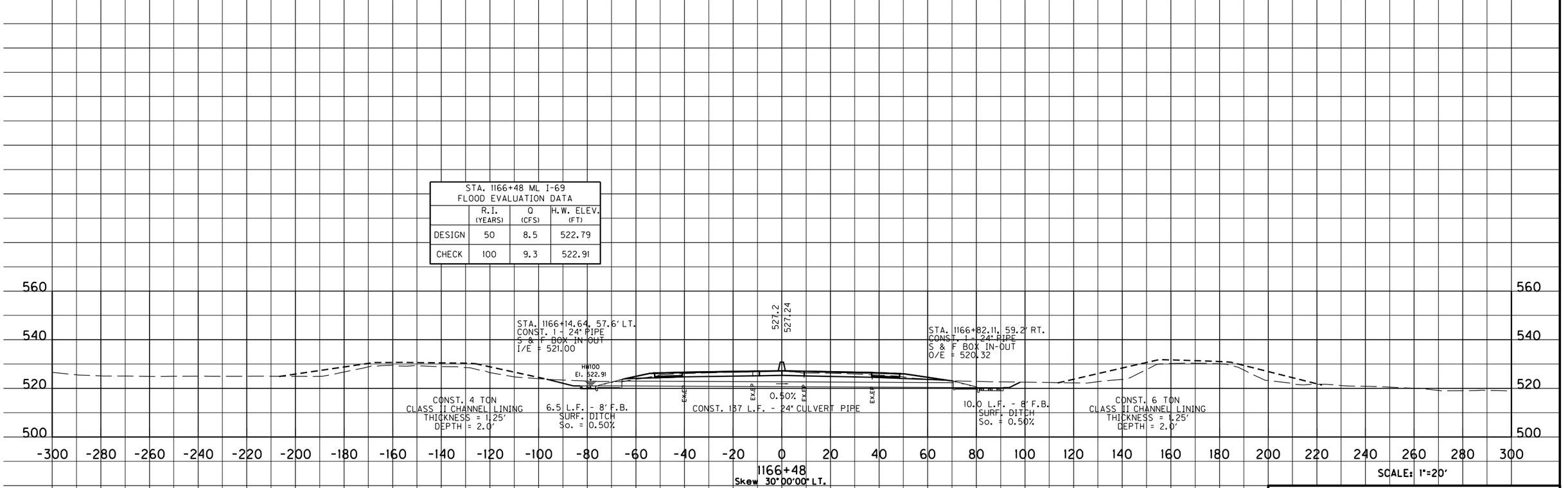
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1152+50 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 25 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R155

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	S & F IN-OUT 24 IN	CLASS II CHANNEL LINING
15"	18"	24"	30"						24"	30"	36"								
LINEAR FEET																	FT.	EACH	TON
									137							M	3.0	2	10

STA. 1166+48 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	8.5	522.79
CHECK	100	9.3	522.91



I-69 / KY 80 INTERCHANGE
STA. 1166+48
ML I-69 PIPE SECTIONS

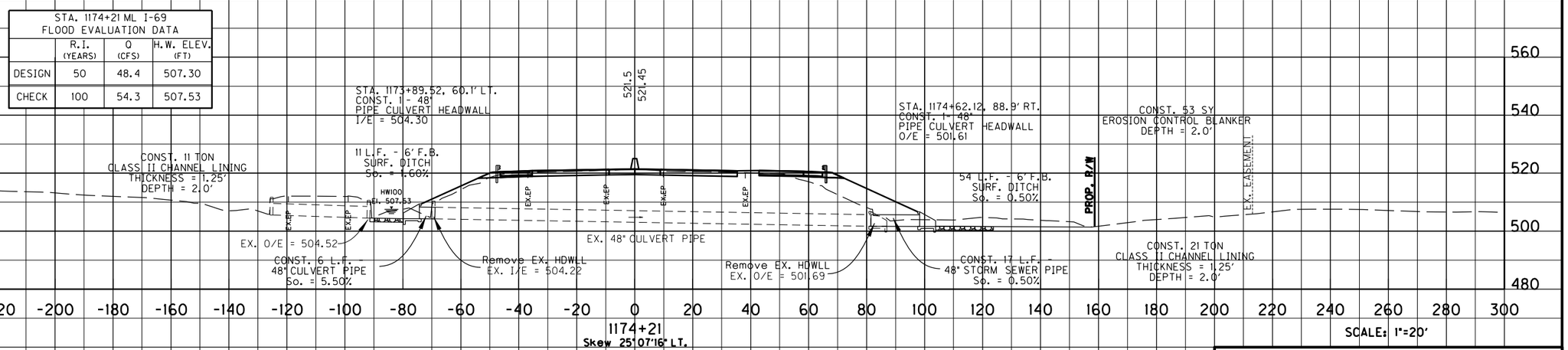
MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1166+48 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 26 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R156

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	48 IN PIPE CULVERT HEADWALL	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET
15"	18"	24"	30"						30"	36"	48"									
LINEAR FEET																	FT.	EACH	TON	SY
											23					M	12.5	2	32	53

STA. 1174+21 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	48.4	507.30
CHECK	100	54.3	507.53



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1174+21
ML I-69 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1174+21 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

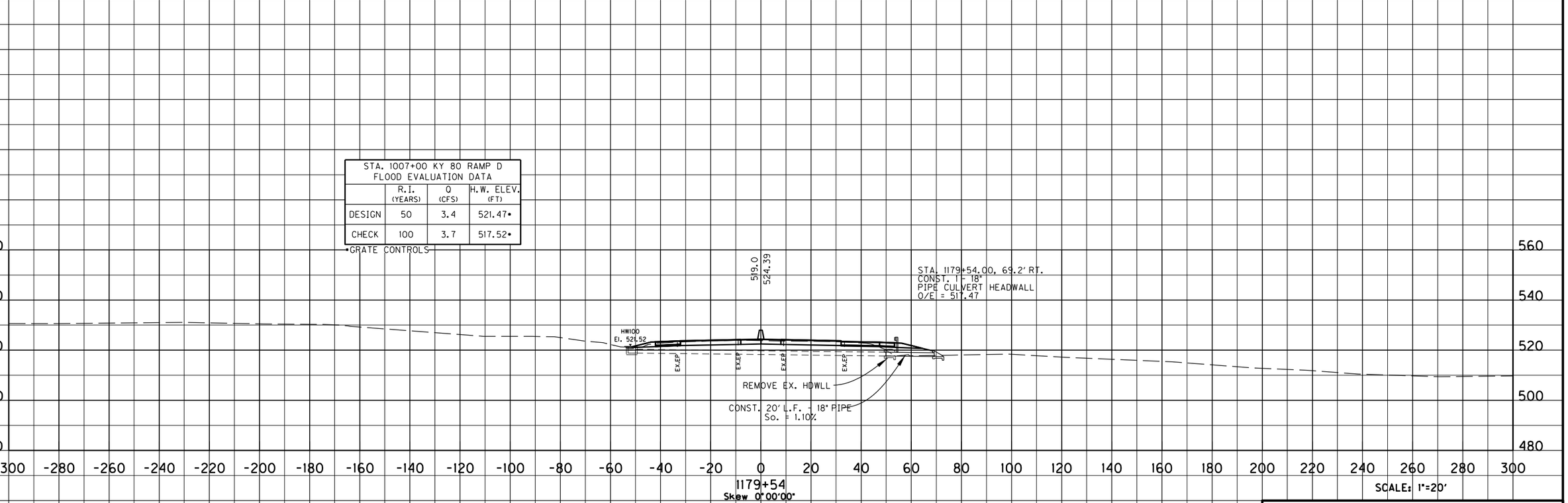
PIPE DRAINAGE SHEET 27 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R157

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	PIPE CULVERT HEADWALL 24 IN
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
									20							M	2.0	1

STA. 1007+00 KY 80 RAMP D FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	3.4	521.47•
CHECK	100	3.7	517.52•

•GRATE CONTROLS



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1179+54
ML I-69 PIPE SECTIONS

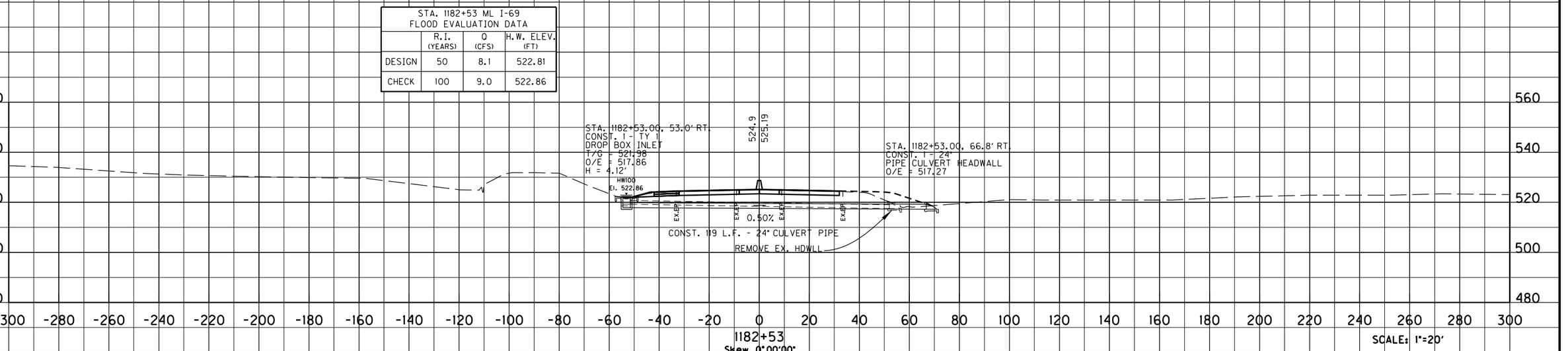
FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1179+54 PIPE SECTION.DGN
USER: ryan-s
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.536

PIPE DRAINAGE SHEET 28 of 28

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R158

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	S & F HEADWALL 24 IN	DROP BOX INLET TYPE 1
15"	18"	24"	30"						18"	24"	30"								
LINEAR FEET																	FT.	EACH	EACH
									119							M	3.0	1	1

STA. 1182+53 ML I-69 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	8.1	522.81
CHECK	100	9.0	522.86



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 1182+53
ML I-69 PIPE SECTIONS

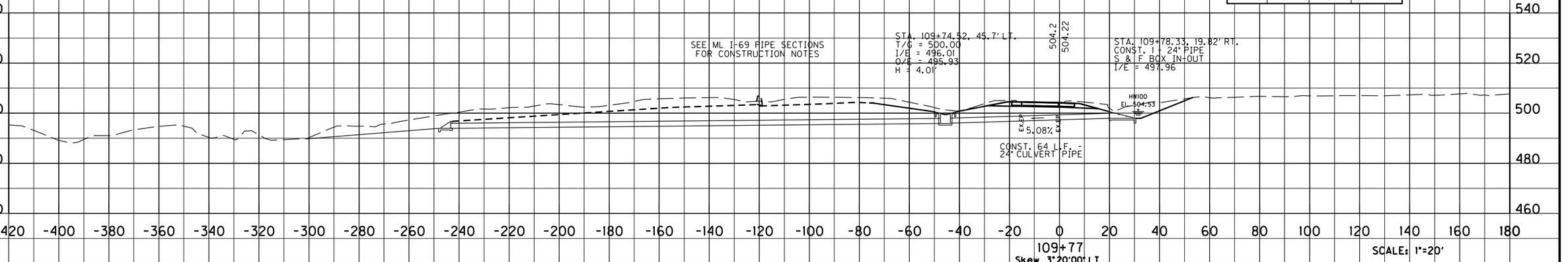
MicroStation v8.11.9.536 | E-SHEET NAME: | USER: ryan-s DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS25860\STA. 1182+53 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 1 of 2

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R159

STORM SEWER PIPE									CULVERT PIPE							DESIGN LEVEL	MAXIMUM COVER HEIGHT	S & F BOX IN-OUT 24 IN
18"	24"	30"							18"	24"	30"							
LINEAR FEET																	FT.	EACH
										64						M	5.0	1

STA. 109+77 US 45 RAMP A FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	5.6	500.60
CHECK	100	6.2	500.70



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 109+77
US 45 RAMP A PIPE SECTIONS

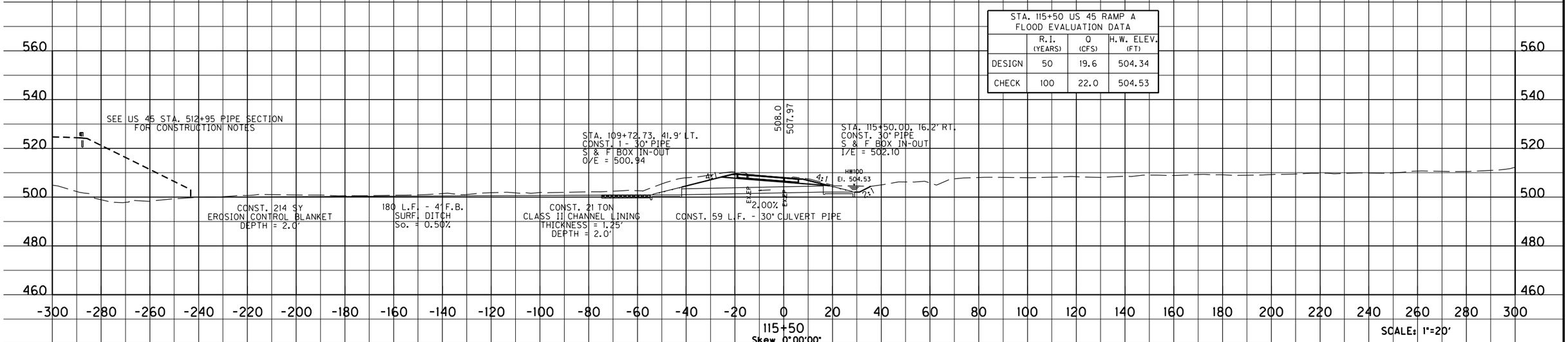
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 109+77 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 2 of 2

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R160

STORM SEWER PIPE									CULVERT PIPE							DESIGN FILL LEVEL	MAXIMUM COVER HEIGHT	S & F IN-OUT 30 IN	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET
18"	24"	36"							18"	24"	30"									
LINEAR FEET																	FT.	EACH	TON	SY
											59					M	4.5	2	21	214

STA. 115+50 US 45 RAMP A FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	19.6	504.34
CHECK	100	22.0	504.53



SCALE: 1"=20'

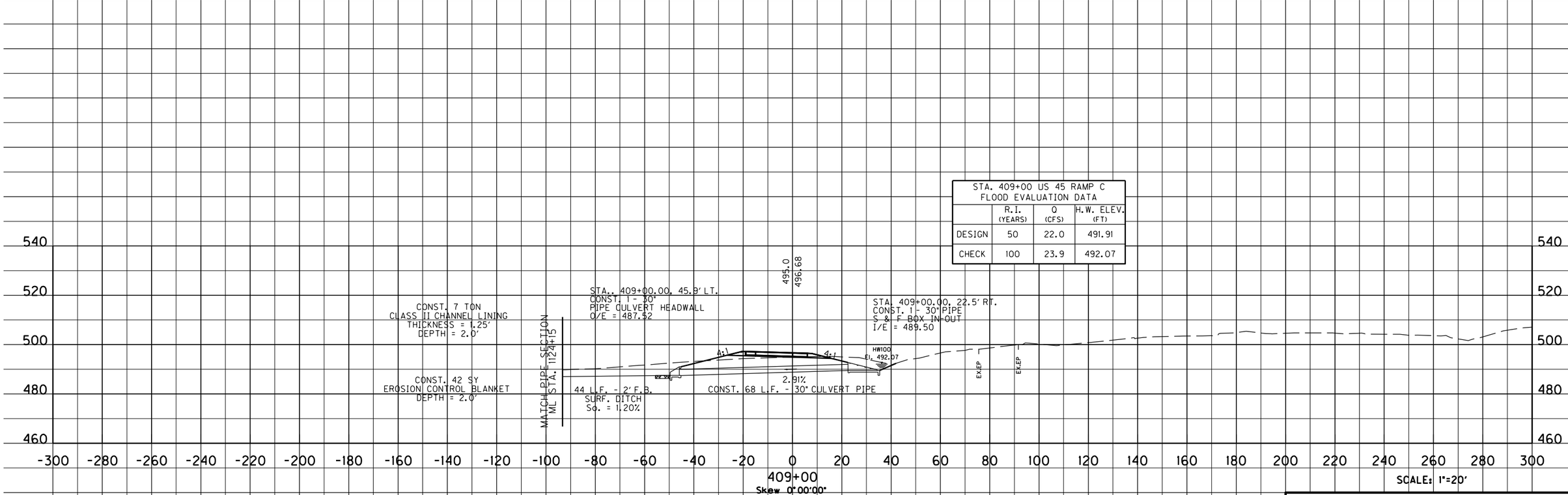
I-69 / KY 80 INTERCHANGE
STA. 115+50
US 45 RAMP A PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 115+50 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 1 of 3

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R161

STORM SEWER PIPE									CULVERT PIPE							DESIGN FILL LEVEL	MAXIMUM COVER HEIGHT	S & F BOX IN-OUT 30 IN	30 IN PIPE CULVERT HEDWALL	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET					
15"	18"	24"	30"						24"	30"	36"															
L I N E A R F E E T																	FT.	EACH	EACH	TON	SY					
										68						M	5.0	1	1	7	42					



STA. 409+00 US 45 RAMP C FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	22.0	491.91
CHECK	100	23.9	492.07

I-69 / KY 80 INTERCHANGE
STA. 409+00
US 45 RAMP C

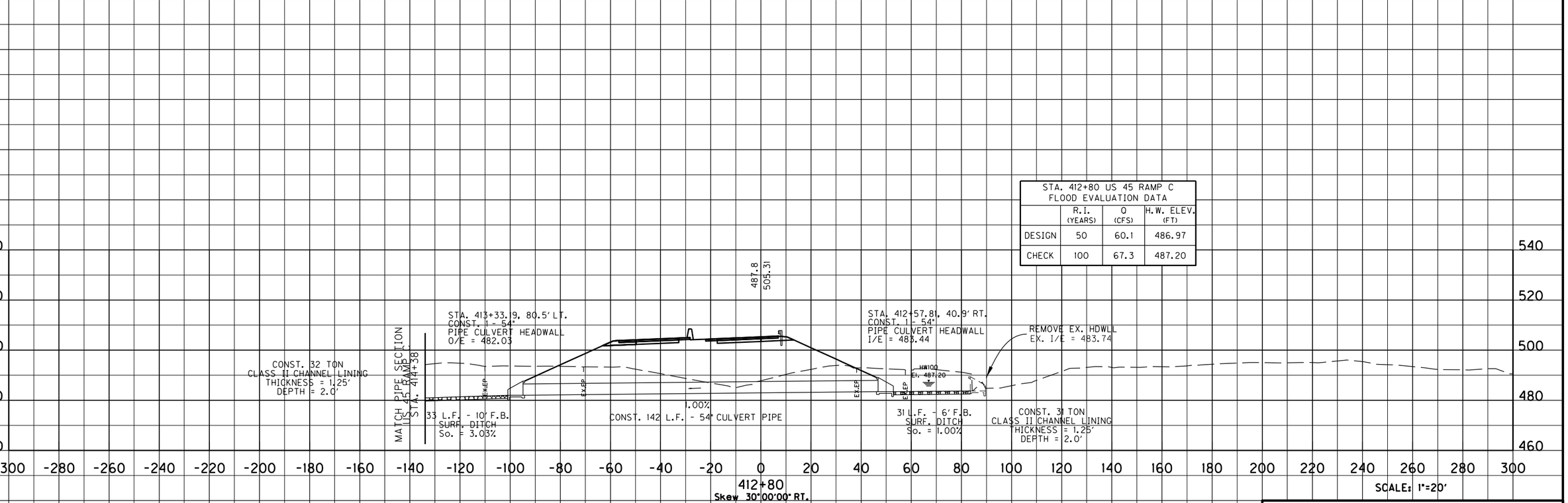
MicroStation v8.11.9.357 | E-SHEET NAME: | USER: will DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 409+00 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 2 of 3

COUNTY OF	ITEM NO.	SHEET NO.
GGRAVES	1234.20	R162

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	54 IN PIPE CULVERT HEADWALL	CLASS II CHANNEL LINING
15"	18"	24"	30"						48"	54"	60"								
LINEAR FEET																	FT.	EACH	TON
										142						M	16.5	2	63

STA. 412+80 US 45 RAMP C FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	60.1	486.97
CHECK	100	67.3	487.20



I-69 / KY 80 INTERCHANGE
STA. 412+80
US 45 RAMP C PIPE SECTIONS

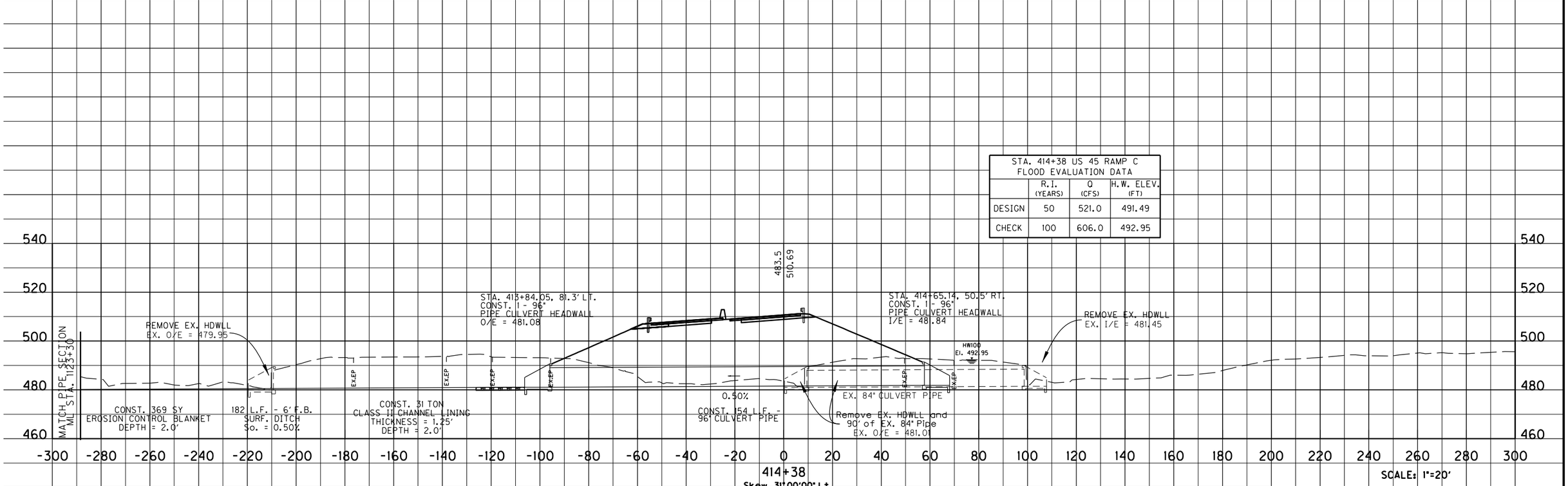
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 412+80 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 3 of 3

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R163

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	96 IN PIPE CULVERT HEADWALL	CLASS II CHANNEL LINING	EROSION CONTROL BLANKET
15"	18"	24"	30"						84"	90"	96"									
LINEAR FEET																	FT.	EACH	TON	SY
											154					M	20.0	2	31	369

STA. 414+38 US 45 RAMP C FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	521.0	491.49
CHECK	100	606.0	492.95



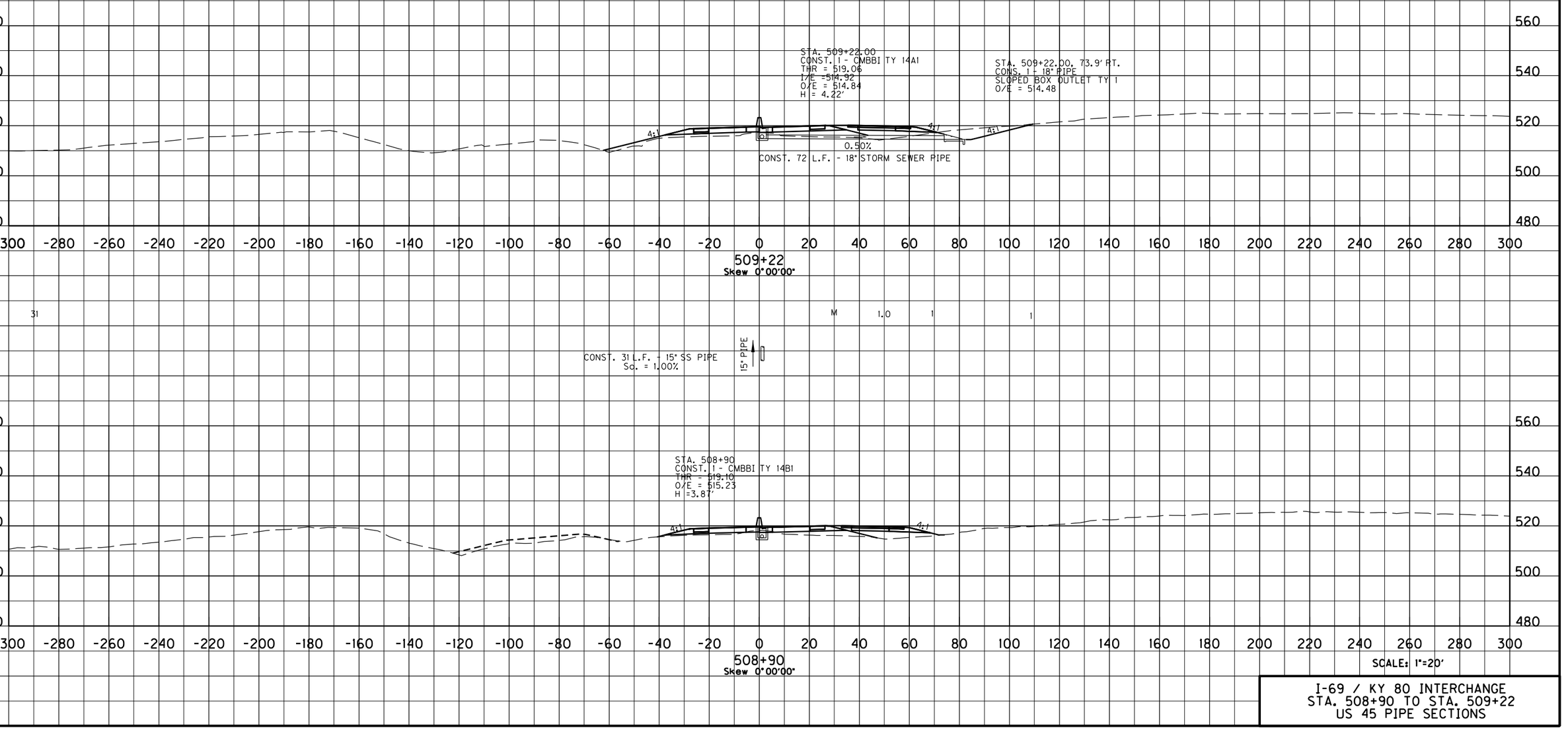
I-69 / KY 80 INTERCHANGE
STA. 414+38
US 45 RAMP C PIPE SECTIONS

MicroStation v8.11.9.357 | E-SHEET NAME: | USER: will | DATE PLOTTED: January 1, 0001 | FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 414+38 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 1 of 5

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R164

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14AI	SLOPED BOX OUTLET TY 1 18 IN	CMBBI TY 14BI
15"	18"	24"							18"	24"	30"									
L I N E A R F E E T																	FT.	EACH	EACH	EACH
	72															M	1.0	1	1	
	31															M	1.0	1	1	



SCALE: 1"=20'

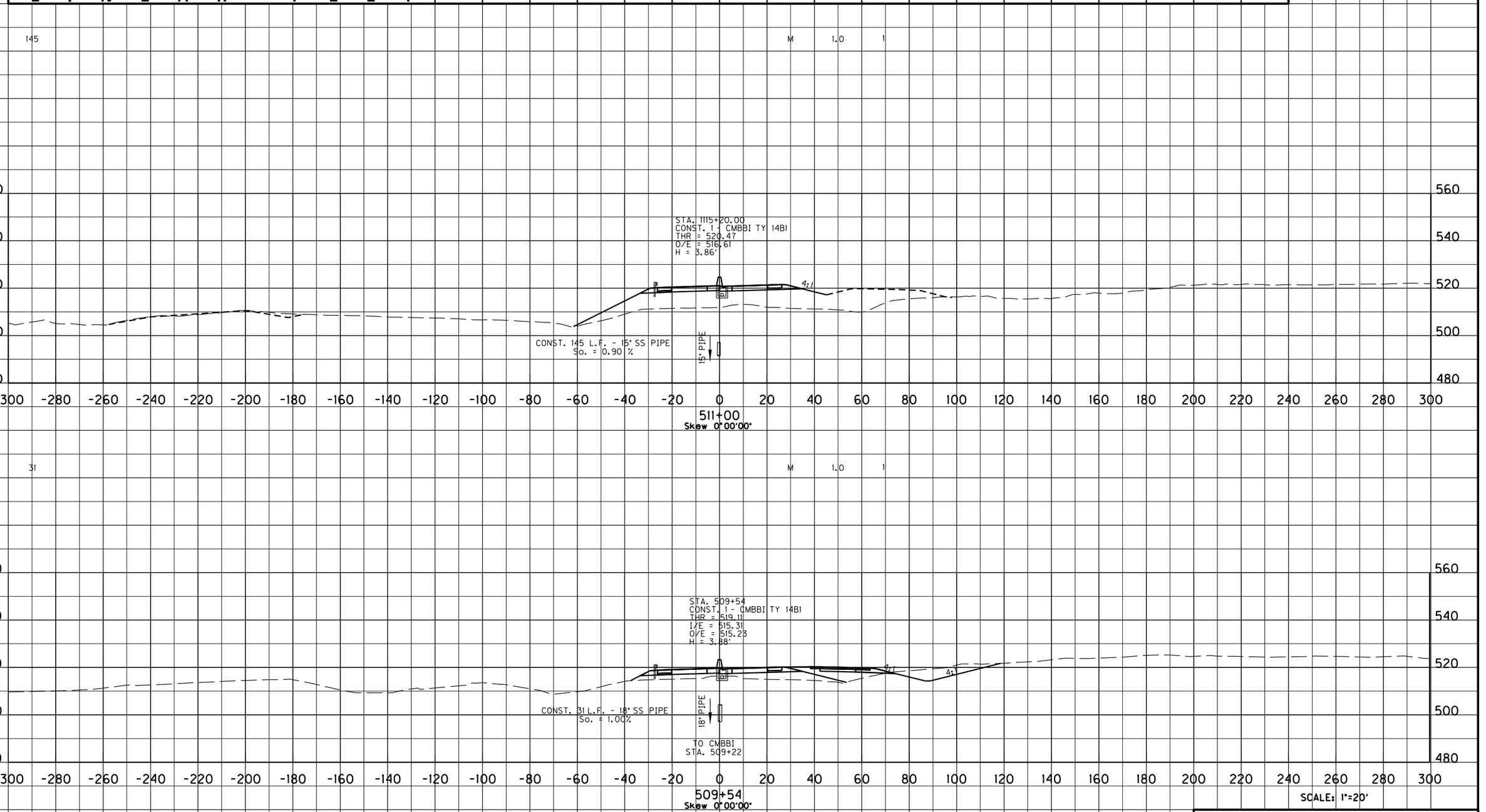
I-69 / KY 80 INTERCHANGE
STA. 508+90 TO STA. 509+22
US 45 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 509+22 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 2 of 5

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R165

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	CMBBI TY 14BI
15"	18"	24"							18"	24"	30"							
LINEAR FEET																	FT.	EACH
145																M	1.0	1
31																M	1.0	1



SCALE: 1"=20'

KY 80 / I-69 INTERCHANGE
STA. 509+54 TO STA. 511+00
US 45 PIPE SECTIONS

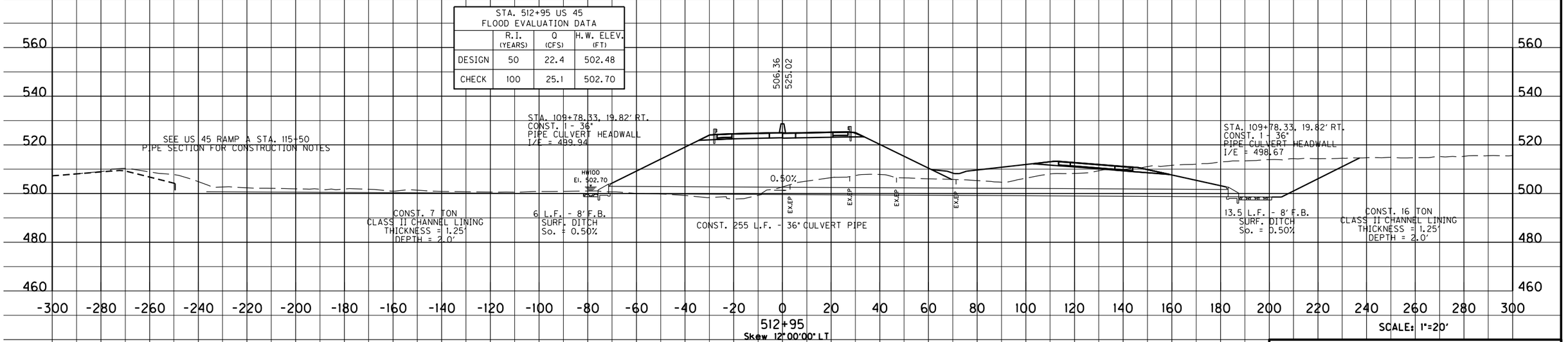
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 509+54 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 3 of 5

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R166

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	PIPE CULVERT HEADWALL 36 IN	CLASS II CHANNEL LINING
24"	30"	36"							24"	30"	36"								
LINEAR FEET																	FT.	EACH	TON
											255					M	20.5	2	24

STA. 512+95 US 45 FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	22.4	502.48
CHECK	100	25.1	502.70



SCALE: 1"=20'

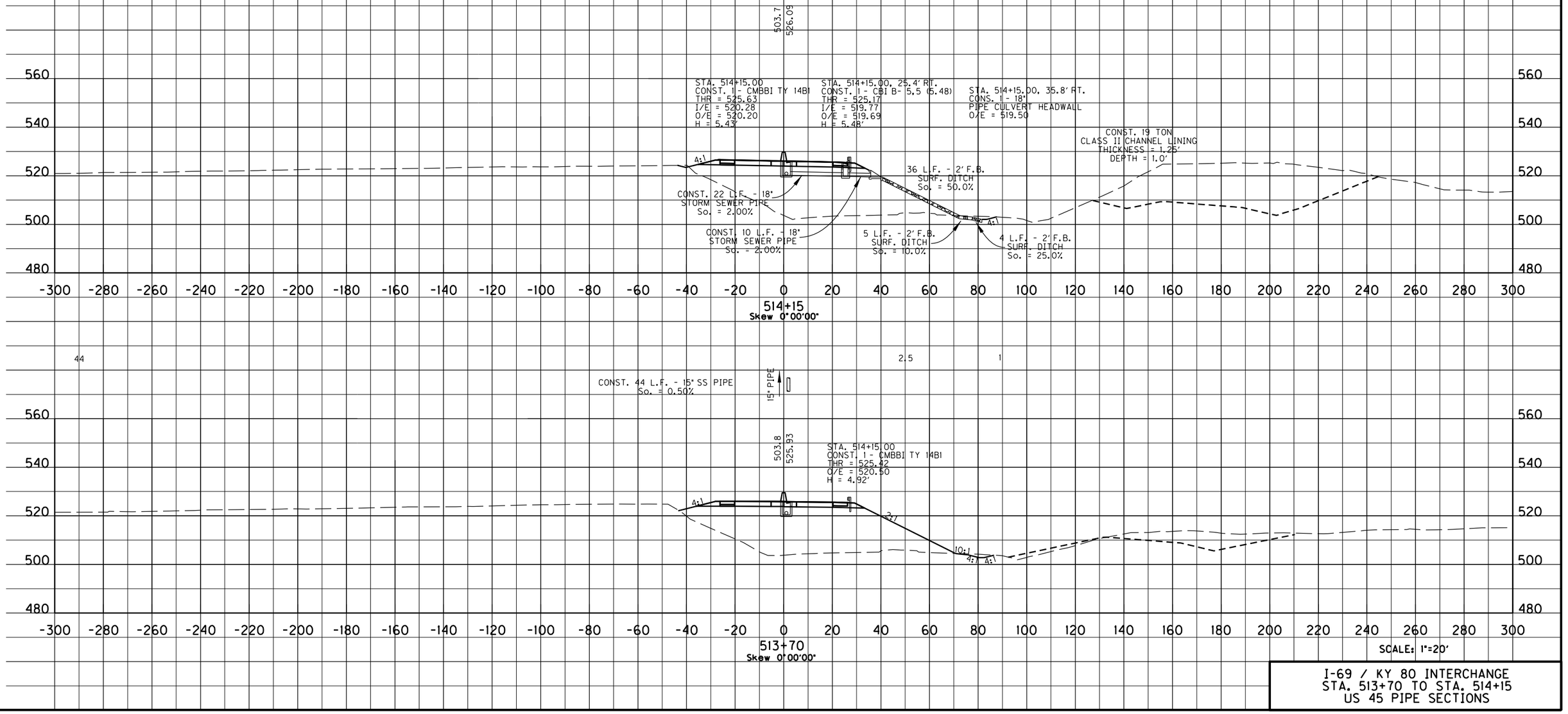
I-69 / KY 80 INTERCHANGE
STA. 512+95
US 45 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 512+95 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 4 of 5

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R167

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	PIPE CULVERT HEADWALL 18 IN	CMBBI TY 14BI	CBI TY B (5,5)	CLASS II CHANNEL LINING					
15"	18"	24"	30"						24"	30"	36"															
L I N E A R F E E T																	FT.	EACH	EACH	EACH	TON					
	32															M	2.0	1	1	1	19					



SCALE: 1"=20'

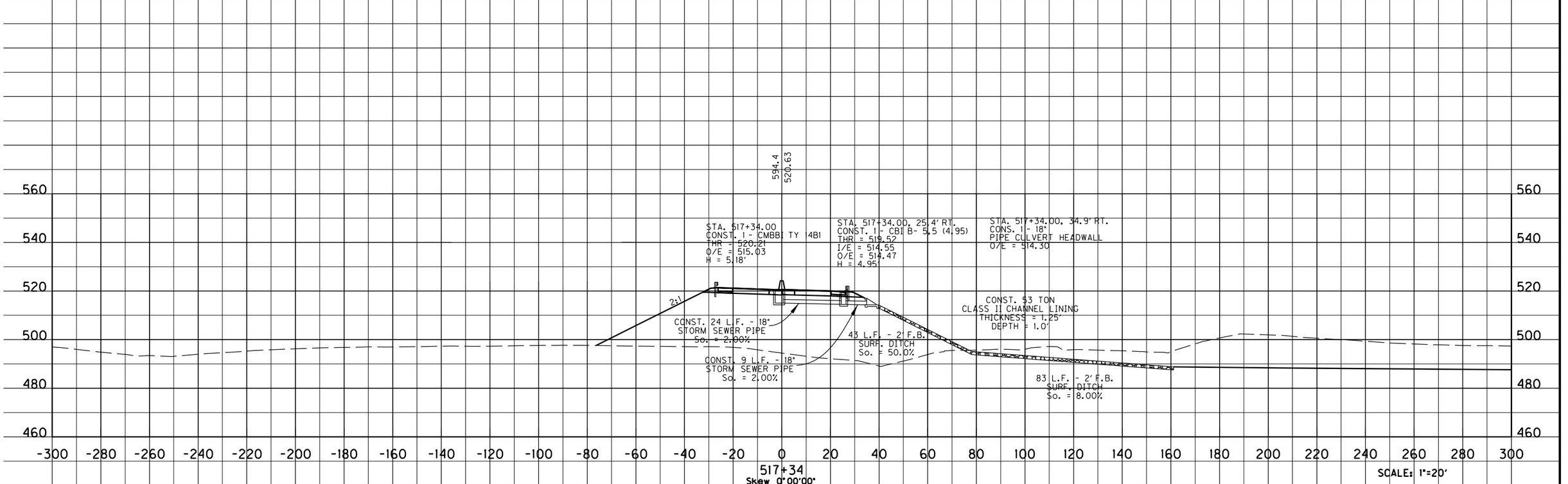
I-69 / KY 80 INTERCHANGE
STA. 513+70 TO STA. 514+15
US 45 PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\will\DMS25860\STA. 514+15 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 5 of 5

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R168

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	PIPE CULVERT HEADWALL 18 IN	CMBBI TY 14BI	CBI TY B (5,5)	CLASS II CHANNEL LINING					
15"	18"	24"	30"						24"	30"	36"															
L I N E A R F E E T																	FT.	EACH	EACH	EACH	TON					
	33															M	2.0	1	1	1	53					



I-69 / KY 80 INTERCHANGE
STA. 517+34
US 45 PIPE SECTIONS

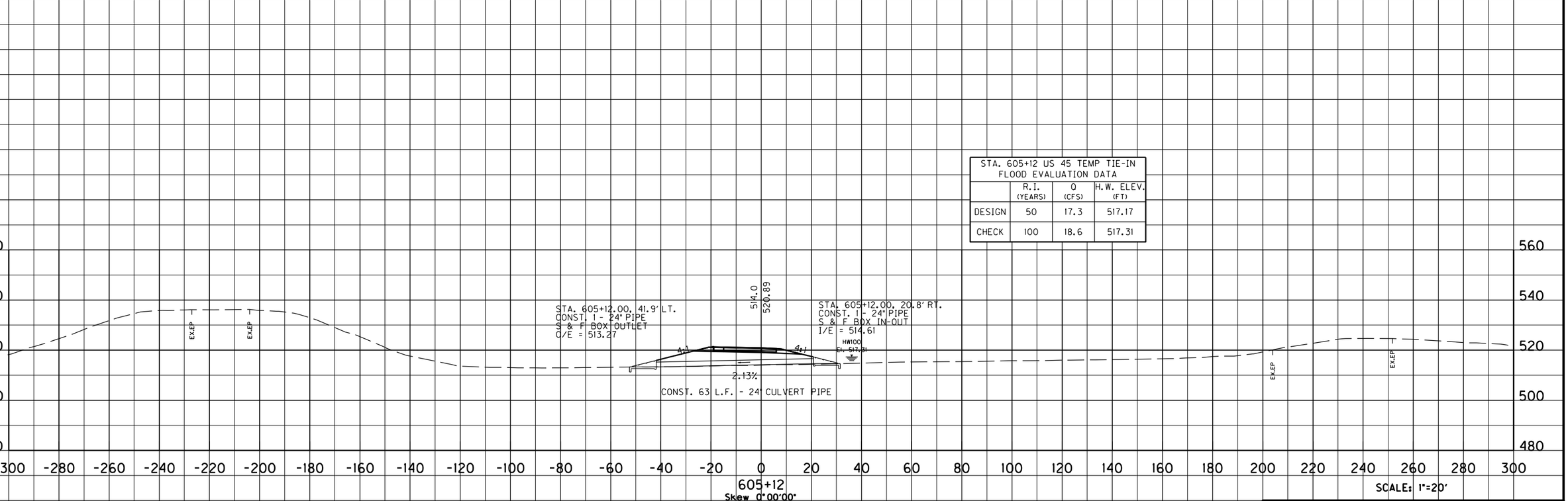
MicroStation v8.11.9.357
E-SHEET NAME:
USER: will
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 517+34 PIPE SECTION.DGN

PIPE DRAINAGE SHEET 1 of 1

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R169

STORM SEWER PIPE									CULVERT PIPE							DESIGN P.H. LEVEL	MAXIMUM COVER HEIGHT	S & F BOX IN-OUT 24 IN
15"	18"	24"	30"						24"	30"	36"							
LINEAR FEET																	FT.	EACH
									63							M	4.0	2

STA. 605+12 US 45 TEMP TIE-IN FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	17.3	517.17
CHECK	100	18.6	517.31



I-69 / KY 80 INTERCHANGE
STA. 605+12
US 45 TEMP TIE-IN PIPE SECTIONS

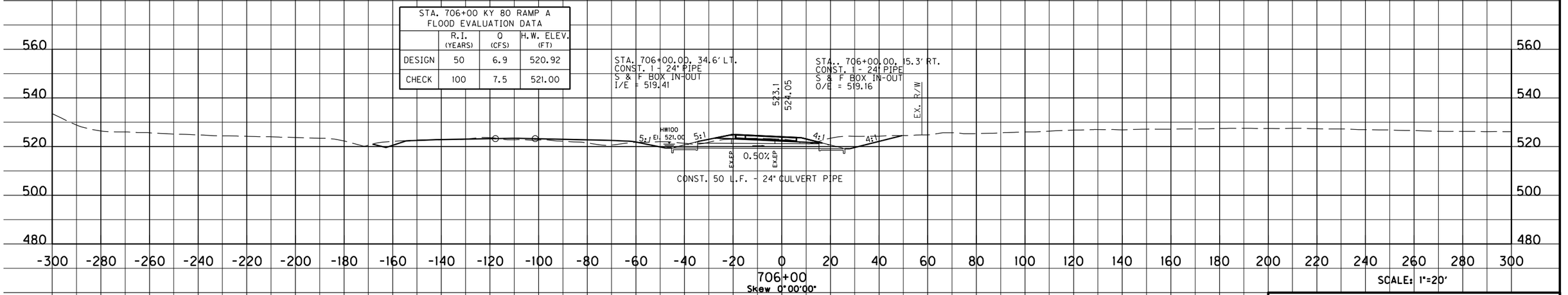
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 605+12 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 1 of 1

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R170

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	S & F IN-OUT 24 IN
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
										50						M	2.0	2

STA. 706+00 KY 80 RAMP A FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	6.9	520.92
CHECK	100	7.5	521.00



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 706+00
KY 80 RAMP A PIPE SECTIONS

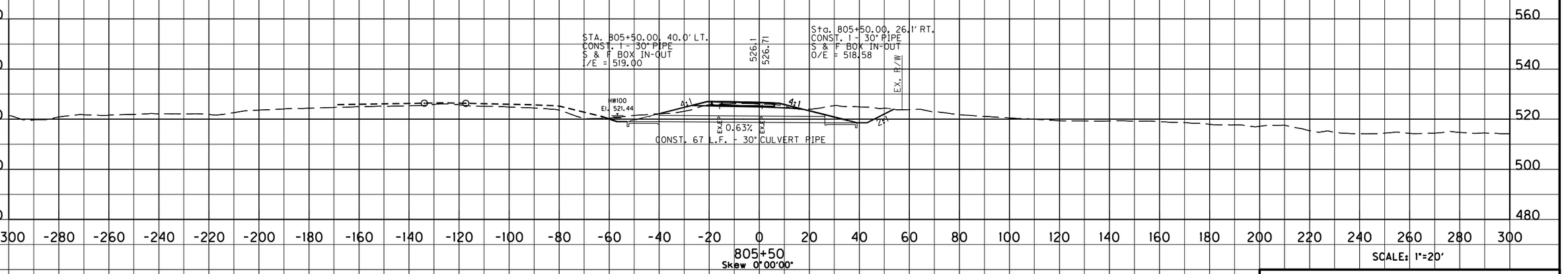
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 706+00 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET 1 of 1

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R171

STORM SEWER PIPE									CULVERT PIPE							DESIGN P/H LEVEL	MAXIMUM COVER HEIGHT	S & F IN-OUT 30 IN
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
											67					M	3.0	2

STA. 805+50 KY 80 RAMP B FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	17.1	521.30
CHECK	100	18.8	521.44



SCALE: 1"=20'

I-69 / KY 80 INTERCHANGE
STA. 805+50
KY 80 RAMP B PIPE SECTIONS

MicroStation v8.11.9.357
E-SHEET NAME:
USER: ryan-s
DATE PLOTTED: January 1, 0001
FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 805+50 PIPE SECTION.DGN

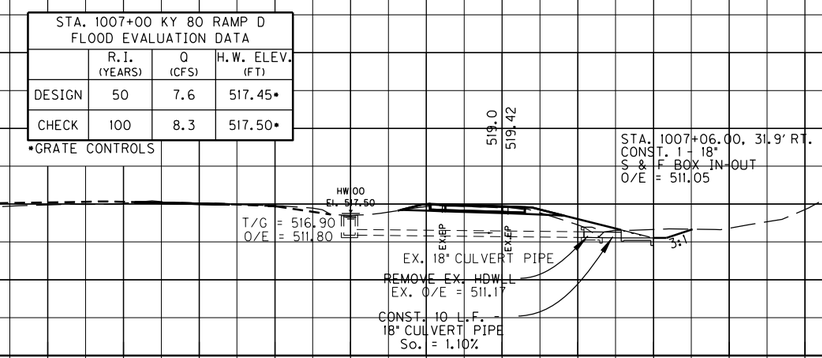
PIPE DRAINAGE SHEET 1 of 1

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R172

STORM SEWER PIPE									CULVERT PIPE							DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	S & F BOX IN-OUT 18 IN
15"	18"	24"	30"						18"	24"	30"							
LINEAR FEET																	FT.	EACH
									10							M	4.0	1

STA. 1007+00 KY 80 RAMP D FLOOD EVALUATION DATA			
	R.I. (YEARS)	Q (CFS)	H.W. ELEV. (FT)
DESIGN	50	7.6	517.45•
CHECK	100	8.3	517.50•

•GRATE CONTROLS



SCALE: 1"=20'

I-69 / KY 80 INTERGHANCE
STA. 1007+06
KY 80 RAMP D PIPE SECTIONS

FILE NAME: C:\PW_WORKDIR\WILL\DMS25860\STA. 1007+06 PIPE SECTION.DGN
USER: will
DATE PLOTTED: January 1, 0001
E-SHEET NAME:
MicroStation v8.11.9.357

PIPE DRAINAGE SHEET

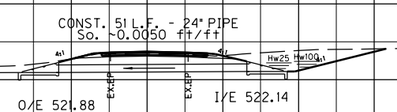
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	R173

STORM SEWER PIPE							CULVERT PIPE						DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	DBI TYPE 1	DBI TYPE 12	DBI TYPE 15	CURB BOX INLET TYPE A	JUNCTION BOX	24" PIPE CULVERT HEADWALL	24" S & F BOX INLET	METAL END SECTION TYPE 3-24" EQUIV.	CLASS "A" CONCRETE	STEEL REINFORCEMENT	DITCH EXCAVATION		
12"	15"	18"	24"	30"	36"	42"	15"	18"	24"	30"	36"	42"															
LINEAR FEET														FT	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CU. YD	LBS.	CU. YD	



KY 80
STA. 58+87
0° SKEW
(FOR INFORMATION ONLY)

FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	12	524.44
CHECK	100	14	524.81



KY 80
STA. 58+65
0° SKEW

51 M 3 2

SCALE: 1" = 20'

GRAVES COUNTY
I-69 PIPE SECTIONS
STA. XXX+XX TO STA. XXX+XX

FILE NAME: C:\PW_WORKDIR\WILL\DMS01400\PIPE SHEETS_KY80.DGN
USER: ryan-s
DATE PLOTTED: July 20, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

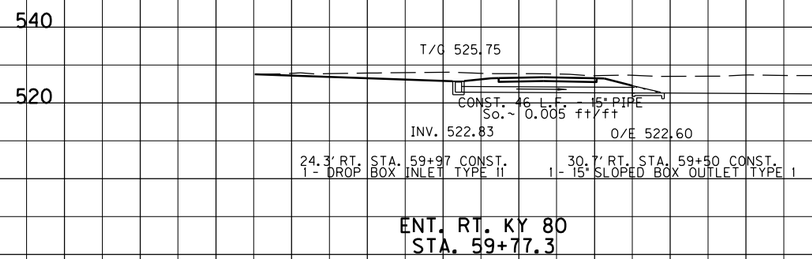
PIPE DRAINAGE SHEET

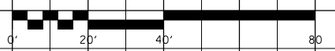
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R174

STORM SEWER PIPE							CULVERT PIPE						DESIGN PH LEVEL	MAXIMUM COVER HEIGHT	DBI TYPE 1	DBI TYPE 12	DBI TYPE 11	CURB BOX INLET TYPE A	15' SLOPED BOX OUTLET TYPE 1	24" PIPE CULVERT HEADWALL	24" S & F BOX INLET	METAL END SECTION TYPE 3-24" EQUIV.	CLASS "A" CONCRETE	STEEL REINFORCEMENT	DITCH EXCAVATION		
12"	15"	18"	24"	30"	36"	42"	15"	18"	24"	30"	36"	42"															
LINEAR FEET														FT	EACH	LF	EACH	EACH	EACH	EACH	EACH	EACH	CU. YD	LBS.	CU. YD		
							46						M	3			1		1								

FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	2.5	526.19
CHECK	100	3.3	526.24

GRATE CONTROLS





SCALE: 1" = 20'

GRAVES COUNTY
KY 80 PIPE SECTIONS
DROP BOX INLET RT. STA. 59+97

MicroStation v8.11.9.355 SHEET NAME: DATE PLOTTED: July 20, 2015 USER: ryan-s FILE NAME: C:\PW_WORKDIR\WILL\DMS01400\PIPE SHEETS.KY80.DGN

GEOTECHNICAL SYMBOLS

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R175

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 Analysis, 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

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
◌	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
Ø	Angle of Internal Friction (Total Stress)
$\overline{Ø}$	Angle of Internal Friction (Effective Stress)
c (psf)	Cohesion (Total Stress)
$\overline{c}$ (psf)	Cohesion (Effective Stress)
δ (pcf)	Total Unit Weight
RDZ	Rock Disintegration Zone
OB	Overburden Bench
IB	Intermediate Bench
R	Refusal
NR	Refusal Not Encountered

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.
		ML-CL	Silty clay-silty clay with sand and or gravel, sandy silty clay, sandy silty clay with gravel, gravelly silty clay, gravelly silty clay with sand
	SILTS AND CLAYS LL IS GREATER THAN 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
		CH	Inorganic clays of high plasticity, fat clays.

Unified Soil Classifications - Continued

MAJOR DIVISIONS		SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GP-GC	Poorly graded gravel with clay (or silty clay), poorly graded gravel with clay and sand (or silty clay & sand)
		GP-GM	Poorly graded gravel with silt, poorly graded gravel with silt and sand
		GW-GC	Well graded gravel with clay (or silty clay), well graded gravel with clay and sand (or silty clay and sand)
		GW-GM	Well graded gravel with silt, well graded gravel with silt and sand
		GC-GM	Silty clayey gravel, silty clayey gravel with sand
	SAND AND SANDY SOILS	SW-SC	Well graded sand with clay (or silty clay), well graded sand with clay and gravel (or silty clay & gravel)
		SP-SC	Poorly graded sand with clay (or silty clay), poorly graded sand with clay and gravel (or silty clay and gravel)
		SP-SM	Poorly graded sand with silt, poorly graded sand with silt and gravel
		SC-SM	Silty clayey sand, silty clayey sand with gravel
		SW-SM	Well graded sand with silt, well graded sand with silt and gravel
UNCLASSIFIED MATERIAL		OH	Organic (High Plasticity)
		OL	Organic (Low Plasticity)

	LIMESTONE
	SANDSTONE
	DURABLE SHALE (SDI ≥ 95)
	NONDURABLE SHALE (SDI < 95)
	GRANULAR EMBANKMENT
	STRUCTURE GRANULAR BACKFILL
	TALUS, MINE WASTE, FILL MATERIAL, BOULDERS, & ETC.
	COAL
	DOLOMITE
	LIMESTONE (ARGILLACEOUS)
	SLOPE PROTECTION

GEOTECHNICAL SYMBOL SHEET

FILE NAME:
USER:
DATE:
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R176

GEOTECHNICAL NOTES

1) Clearing and grubbing shall be in accordance with Section 202 of the current Standard Specifications for Road and Bridge Construction.

2) Removal of structures and obstructions shall be in accordance with Section 203 of the current Standard Specifications for Road and Bridge Construction.

3) In accordance with Section 206 of the current Standard Specifications for Road and Bridge Construction, the moisture content of embankment material shall not vary from the optimum moisture content as determined by KM 64-511 by more than +2 percent or less than -2 percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment construction. Refer to the Family of Curves for moisture/density correlation.

4) All soils, whether from roadway or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling, and/or manipulating soils.

5) Excavation of surface ditches and channel changes adjacent to embankment areas shall be performed prior to the placement of the adjacent embankments. The material excavated for the channel changes and surface ditches is suitable for embankment construction if dried to proper moisture content in accordance with Section 206 of the current Standard Specifications for Road and Bridge Construction.

6) The Contractor is responsible for conducting any operations necessary to excavate the cut areas to the required typical section. These operations shall be incidental to Roadway Excavation or Embankment-in-Place and no additional compensation shall be made for this work.

7) Foundation embankment benches shall be placed in accordance with Standard Drawing RGX-010 at the locations listed below and/or as directed by the Engineer.

I-69 ML
STATIONS 1173+75 TO 1178+25 LEFT SIDE
STATIONS 1174+75 TO 1177+25 RIGHT SIDE

I-69 NB ON RAMP
STATIONS 205+75 TO 210+25

US 45 ML
STATIONS 513+25 TO 514+75

KY 80 ML
STATIONS 46+75 TO 47+25 LEFT SIDE
STATIONS 47+25 TO 49+25 RIGHT SIDE
STATIONS 51+25 TO 51+75 RIGHT SIDE
STATIONS 51+25 TO 52+75 LEFT SIDE
STATIONS 53+25 TO 54+25 RIGHT SIDE

KY 80 NB OFF RAMP
STATIONS 700+00 TO 705+25
STATIONS 706+25 TO 710+75 LEFT SIDE
STATIONS 709+25 TO 711+50 RIGHT SIDE

KY 80 NB ON RAMP
STATIONS 800+25 TO 804+75 BOTH SIDES
STATIONS 808+25 TO 809+75

KY 80 SB OFF RAMP
STATIONS 900+75 TO 905+25
STATIONS 907+25 TO 911+75 BOTH SIDES
STATIONS 911+75 TO 912+50

KY 80 SB ON RAMP
STATIONS 1000+25 TO 1005+75 BOTH SIDES

8) Transverse benching and/or perforated pipe underdrains shall be installed and/or extended at the following approximate locations and any others designated by the Engineer. Contrary to Standard Drawing RDP-006 the transverse benching and perforated pipe underdrains shall be installed on both the upgrade and the downgrade cut to fill transitions.

I-69/US 45 INTERCHANGE
STATION 507+50

US 45 RAMP B
STATION 210+10
STATION 213+80

US 45 RAMP C
STATION 408+75

I-69 ML
STATION 1105+70
STATION 1114+40
STATION 1119+00
STATION 1130+50

US 45 NB TIE
STATION 602+10
STATION 606+10

9) Perforated pipe for subgrade drainage shall be placed in vertical sags in accordance with Standard Drawing RDP-005 at the following approximate locations and/or where designated by the Engineer.

I-69/US 45 INTERCHANGE
STATION 509+20

US 45 RAMP A
STATION 106+91

US 45 RAMP B
STATION 214+06

US 45 RAMP C
STATION 406+25

KY 80 RAMP B
STATION 812+00

I-69 ML
STATION 1062+00
STATION 1116+05
STATION 1174+96

KY 80 ML
STATION 59+29

US 45 NB TIE
STATION 605+50

10) If wet and/or soft subgrade is encountered during construction a subgrade working platform will be required consisting of 1 foot of Kentucky Coarse Aggregate # 2's, 3's or 23's, in accordance with Section 805 of the current Standard Specifications for Road and Bridge Construction. The platform shall extend from shoulder to shoulder in the fills and ditch line to ditch line in the cuts, to assure positive drainage. The working platform shall be wrapped with Geotextile Fabric, Type IV, in accordance with Sections 214 & 843 of the current Standard Specifications for Road and Bridge Construction. The actual thickness may need to be adjusted by the Engineer during construction.

11) If wet and/or soft foundation soils are encountered during embankment construction a working platform for embankment construction will be required consisting of 2 foot of Kentucky Coarse Aggregate # 2's, 3's or 23's, in accordance with Section 805 of the current Standard Specifications for Road and Bridge Construction. Positive drainage shall be maintained to prevent trapping water within the roadway embankment. The working platform shall be wrapped with Geotextile Fabric, Type IV, in accordance with Sections 214 & 843 of the current Standard Specifications for Road and Bridge Construction. The actual thickness may need to be adjusted by the Engineer during construction.

12) The approach embankments to the bridge (I-69 NB ramp to SB US 45) shall be placed as one of the first efforts of roadway construction due to the anticipated settlement concerns. These embankments shall be built to full height within the limits specified in the plans. A minimum 2 months waiting period will be required following completion of the embankment installation before installation of the piles can begin. Based upon the results of the settlement data, KYTC Geotechnical Branch will determine when enough settlement has occurred to permit installation of the piles. The waiting period may be increased or decreased as required.

13) Settlement platforms shall be furnished and installed by the Contractor, behind both end bents, in accordance with Section 216 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction and Standard Drawing RGX-015. The platforms shall be place at a location that they can be left in place for future readings after the project has been completed. The exact locations should be determined by the Engineer.

14) Settlement readings should begin with an initial reading upon placement of the platform prior to beginning embankment construction. Readings should continue periodically during and following completion of the embankment. The settlement platforms should be left in place for the reading and recording of the settlement data. A pre-qualified Geotechnical Engineer or the KYTC Geotechnical Branch shall be responsible for evaluation of the settlement data. The Contractor shall be responsible for replacing all damaged settlement platforms at no extra cost.

15) Pile cores shall be constructed in accordance with Kentucky Standard Drawings RGX-100 and RGX-105, meeting the material requirements of the current edition of Special Provision 69. It is recommended that the pile core and the adjacent embankment consist of similar materials to prevent migration of fines into or out of the pile core, and future settlement of the embankment. If dissimilar materials are used, a Geotextile Fabric, Type IV, separator will be required between the pile core and embankment, in accordance with Sections 214 and 843 of the current Standard Specifications.

16) Borrow material, if required for subgrade, shall meet the minimum CBR value of 6.0.

17) Some of the soil horizons and slopes on the project are subject to erosion. Necessary procedures in accordance with Sections 212 and 213 of the current Standard Specifications shall be followed on construction.

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

GRAVES

PROJECT NUMBERS:

GEOTECHNICAL NOTES

FILE NAME:
USER:
PLOTTED:
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R177

Field Drilling and Sampling were performed in January and February 2015.

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.

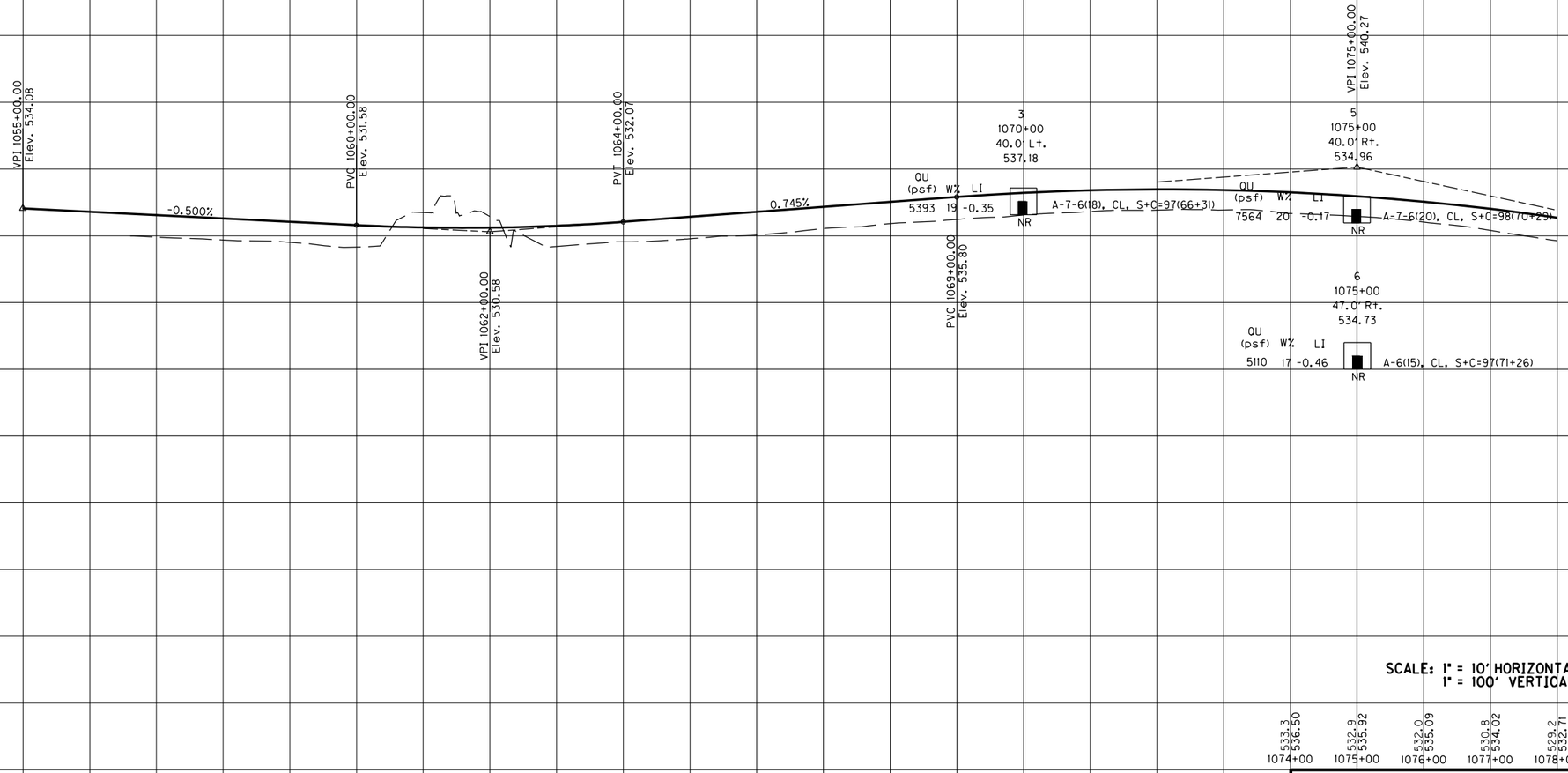
The observed water levels and/or subsurface conditions indicated on the soil profile are as recorded at the time of exploration. These water levels and/or subsurface conditions may vary considerable with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the exploration program.

Selected rock cores and all applicable drill logs, are stored at the Division of Structural Design in Frankfort and are available for inspection request. Contact the Division of Structural Design, 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

REFER TO GEOTECHNICAL NOTE #9 FOR STATION 1062+00



SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

GRAVES

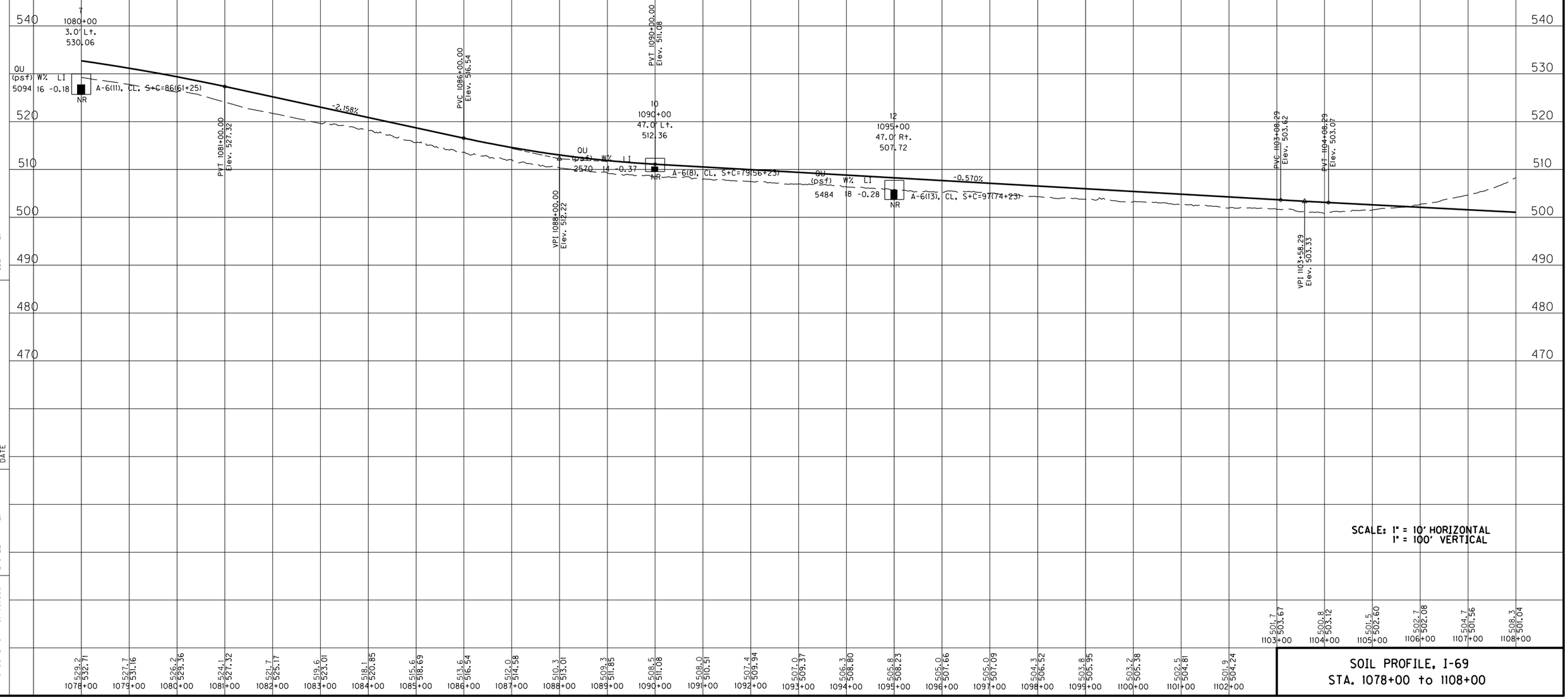
PROJECT NUMBERS:

SOIL PROFILE, I-69
STA. 1055+00 to 1078+00

FILE NAME:
USER:
PLOTTED:
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R178

REFER TO GEOTECHNICAL NOTE #8 FOR STATION 1105+70



SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE, I-69
STA. 1078+00 to 1108+00

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R179

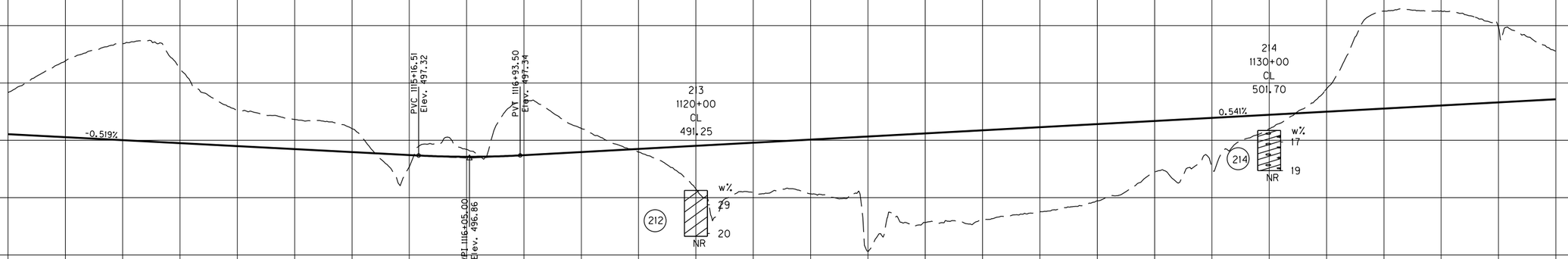
REFER TO GEOTECHNICAL NOTE #9 FOR STATION 1116+05

REFER TO GEOTECHNICAL NOTE #8 FOR STATION 1119+00

REFER TO CUT STABILITY FOR STATION 1132+50

REFER TO GEOTECHNICAL NOTE #8 FOR STATION 1114+40

REFER TO GEOTECHNICAL NOTE #8 FOR STATION 1130+50



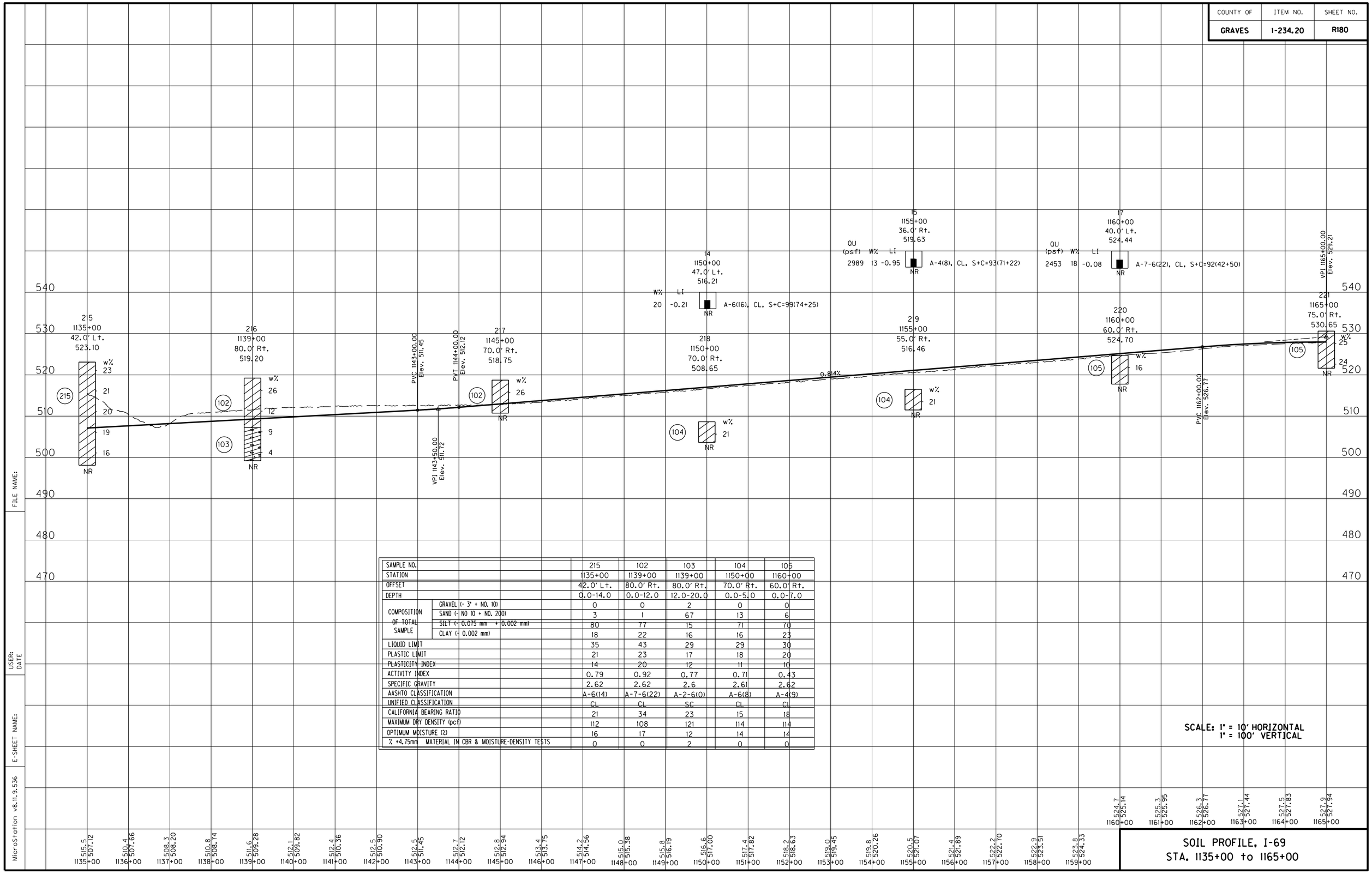
SAMPLE NO.		212	214
STATION		1115+00	1130+00
OFFSET		64.0' Lt.	CL
DEPTH		0.0-8.0	0.0-7.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	4	5
	SAND (- NO 10 + NO. 200)	21	58
	SILT (- 0.075 mm + 0.002 mm)	52	19
	CLAY (- 0.002 mm)	23	19
LIQUID LIMIT		30	34
PLASTIC LIMIT		18	16
PLASTICITY INDEX		12	18
ACTIVITY INDEX		0.53	0.97
SPECIFIC GRAVITY		2.64	2.65
AASHTO CLASSIFICATION		A-6(7)	A-6(2)
UNIFIED CLASSIFICATION		CL	SC
CALIFORNIA BEARING RATIO		21	15
MAXIMUM DRY DENSITY (pcf)		114	120
OPTIMUM MOISTURE (%)		13	13
% +4.75mm	MATERIAL IN CBR & MOISTURE-DENSITY TESTS	2	1

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE, I-69
STA. 1108+00 to 1135+00

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R180



SAMPLE NO.		215	102	103	104	105
STATION		1135+00	1139+00	1139+00	1150+00	1160+00
OFFSET		42.0' Lt.	80.0' Rt.	80.0' Rt.	70.0' Rt.	60.0' Rt.
DEPTH		0.0-14.0	0.0-12.0	12.0-20.0	0.0-5.0	0.0-7.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0	0	2	0	0
	SAND (- NO 10 + NO. 200)	3	1	67	13	6
	SILT (- 0.075 mm + 0.002 mm)	80	77	15	71	70
	CLAY (- 0.002 mm)	18	22	16	16	23
LIQUID LIMIT		35	43	29	29	30
PLASTIC LIMIT		21	23	17	18	20
PLASTICITY INDEX		14	20	12	11	10
ACTIVITY INDEX		0.79	0.92	0.77	0.71	0.43
SPECIFIC GRAVITY		2.62	2.62	2.6	2.61	2.62
AASHTO CLASSIFICATION		A-6(14)	A-7-6(22)	A-2-6(0)	A-6(8)	A-4(9)
UNIFIED CLASSIFICATION		CL	CL	SC	CL	CL
CALIFORNIA BEARING RATIO		21	34	23	15	18
MAXIMUM DRY DENSITY (pcf)		112	108	121	114	114
OPTIMUM MOISTURE (%)		16	17	12	14	14
% +4.75mm MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	2	0	0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

515.5 507.12	510.4 507.66	508.3 508.20	510.8 508.74	511.6 509.28	512.1 509.82	512.4 510.36	512.5 510.90	512.5 511.45	512.7 512.12	512.8 512.94	513.4 513.75	514.2 514.56	515.0 515.38	515.8 516.19	516.6 517.00	517.4 517.82	518.2 518.63	519.0 519.45	519.8 520.26	520.5 521.07	521.4 521.89	522.2 522.70	522.9 523.51	523.8 524.33	524.7 525.14	525.3 525.95	526.3 526.77	527.1 527.44	527.5 527.83	527.9 527.94
1135+00	1136+00	1137+00	1138+00	1139+00	1140+00	1141+00	1142+00	1143+00	1144+00	1145+00	1146+00	1147+00	1148+00	1149+00	1150+00	1151+00	1152+00	1153+00	1154+00	1155+00	1156+00	1157+00	1158+00	1159+00	1160+00	1161+00	1162+00	1163+00	1164+00	1165+00

SOIL PROFILE, I-69
STA. 1135+00 to 1165+00

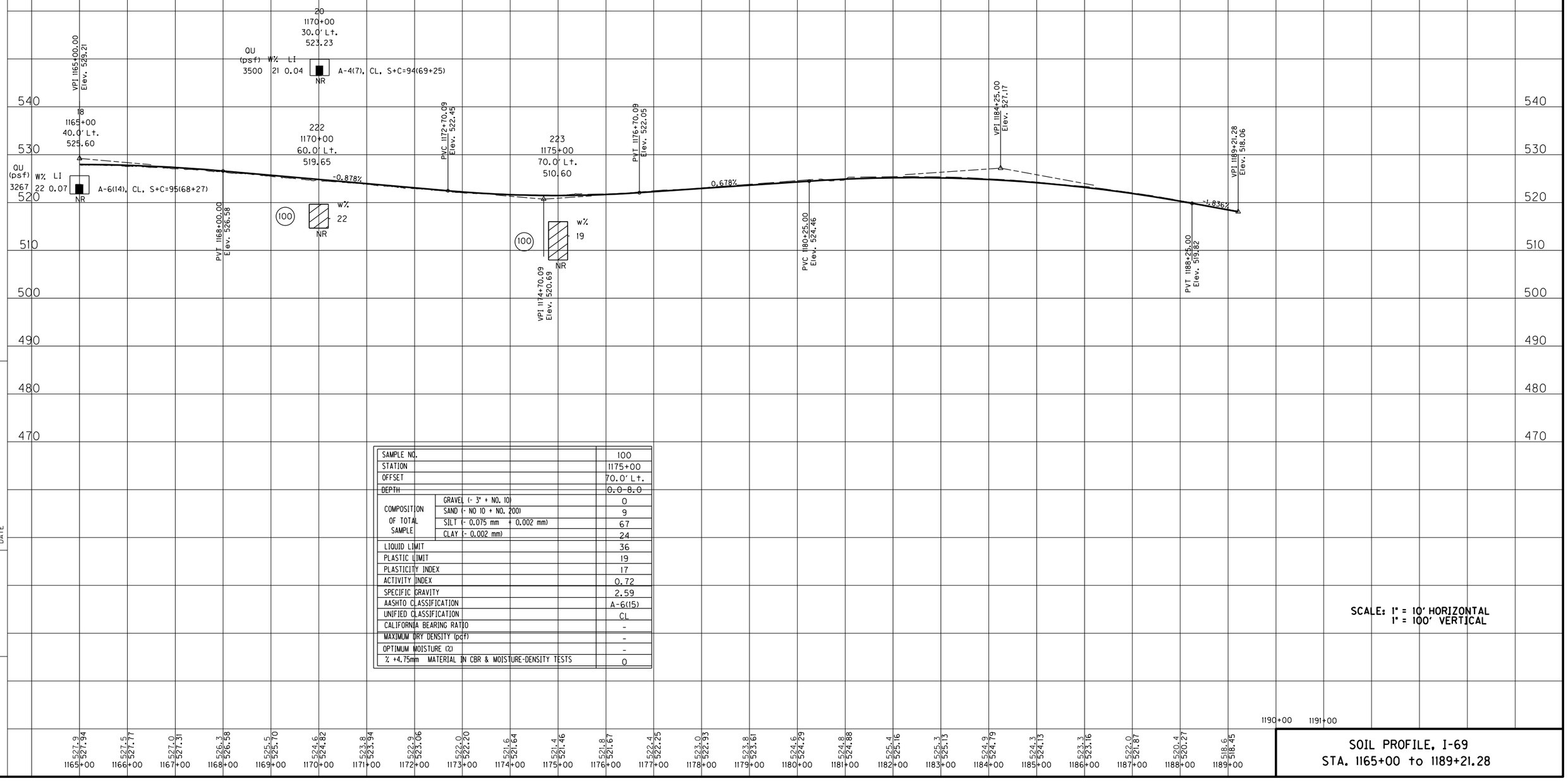
FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R181

REFER TO GEOTECHNICAL NOTE #9 FOR STATION 1174+96

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 1173+75 TO 1178+25 LEFT SIDE

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 1174+75 TO 1177+25 RIGHT SIDE



SAMPLE NO.		100
STATION		1175+00
OFFSET		70.0' Lt.
DEPTH		0.0-8.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0
	SAND (- NO 10 + NO. 200)	9
	SILT (- 0.075 mm + 0.002 mm)	67
	CLAY (- 0.002 mm)	24
LIQUID LIMIT		36
PLASTIC LIMIT		19
PLASTICITY INDEX		17
ACTIVITY INDEX		0.72
SPECIFIC GRAVITY		2.59
AASHTO CLASSIFICATION		A-6(15)
UNIFIED CLASSIFICATION		CL
CALIFORNIA BEARING RATIO		-
MAXIMUM DRY DENSITY (pcf)		-
OPTIMUM MOISTURE (%)		-
% +4.75mm MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE, I-69
STA. 1165+00 to 1189+21.28

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

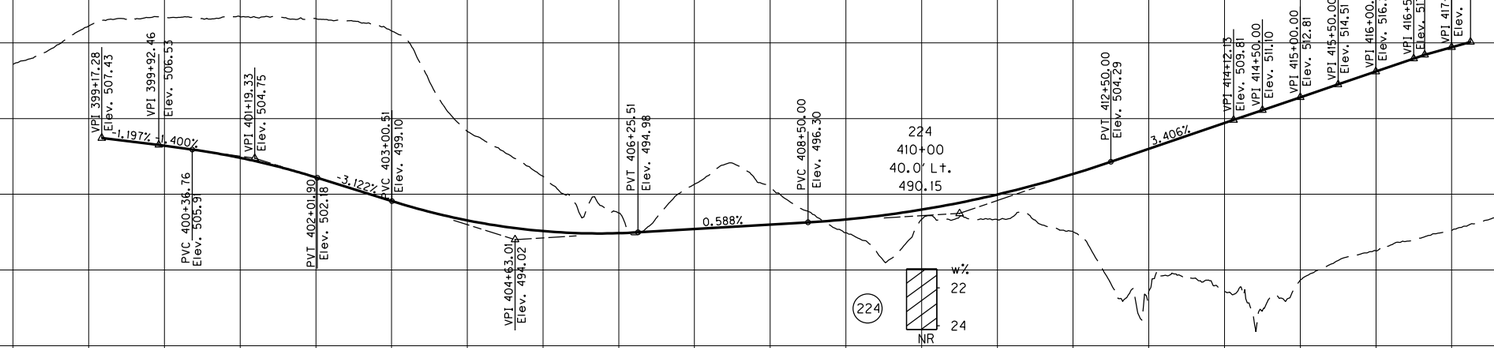
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R182

REFER TO GEOTECHNICAL NOTE #9 FOR STATION 406+25

REFER TO EMBANKMENT STABILITY FOR STATION 416+00

REFER TO CUT STABILITY FOR STATION 402+50

REFER TO GEOTECHNICAL NOTE #8 FOR STATION 408+75



SAMPLE NO.		224
STATION		410+00
OFFSET		40.0' Lt.
DEPTH		0.0-8.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0
	SAND (- NO 10 + NO. 200)	5
	SILT (- 0.075 mm + 0.002 mm)	69
	CLAY (- 0.002 mm)	25
LIQUID LIMIT		38
PLASTIC LIMIT		21
PLASTICITY INDEX		17
ACTIVITY INDEX		0.67
SPECIFIC GRAVITY		2.61
AASHTO CLASSIFICATION		A-6(17)
UNIFIED CLASSIFICATION		CL
CALIFORNIA BEARING RATIO		-
MAXIMUM DRY DENSITY (pcf)		-
OPTIMUM MOISTURE (%)		-
% +4.75mm MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE, SB OFF RAMP
STA. 399+17.28 to 417+25.07

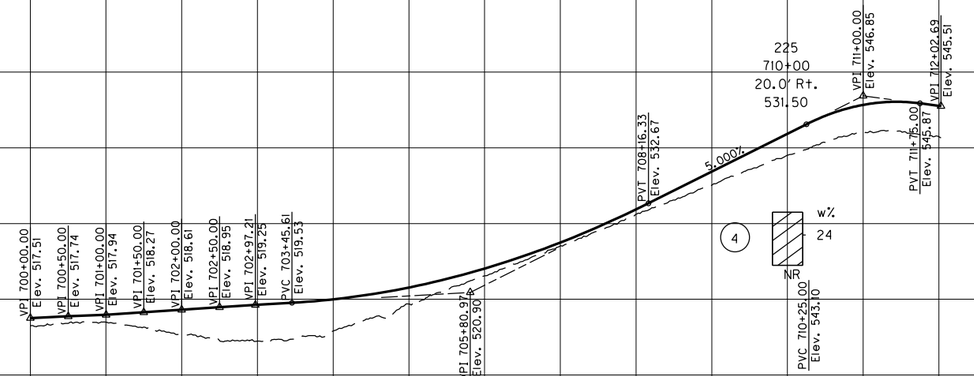
FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R183

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 709+25 TO 711+50 RIGHT SIDE

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 706+25 TO 710+75 LEFT SIDE

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 700+00 TO 705+25



SAMPLE NO.		4
STATION		710+00
OFFSET		20.0' Rt.
DEPTH		0.0-7.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0
	SAND (- NO 10 + NO. 200)	5
	SILT (- 0.075 mm + 0.002 mm)	66
	CLAY (- 0.002 mm)	29
LIQUID LIMIT		32
PLASTIC LIMIT		21
PLASTICITY INDEX		11
ACTIVITY INDEX		0.38
SPECIFIC GRAVITY		2.58
AASHTO CLASSIFICATION		A-6(10)
UNIFIED CLASSIFICATION		CL
CALIFORNIA BEARING RATIO		-
MAXIMUM DRY DENSITY (pcf)		-
OPTIMUM MOISTURE (%)		-
% +4.75mm MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE, KY 80 NB OFF RAMP
STA. 700+00 to 712+02.69

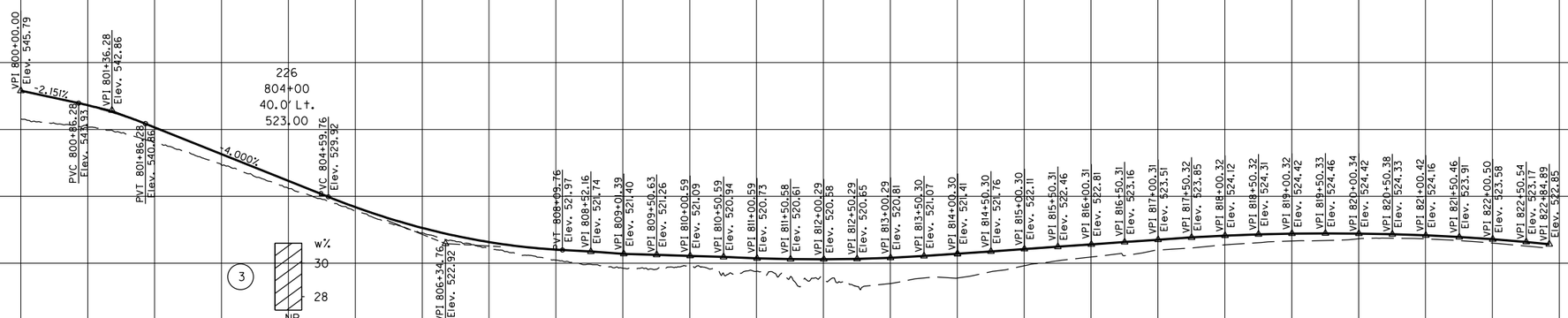
FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R184

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 800+25 TO 804+75 BOTH SIDES

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 808+25 TO 809+75

REFER TO GEOTECHNICAL NOTE #9 FOR STATION 812+00



SAMPLE NO.		3
STATION		804+00
OFFSET		40.0' Lt.
DEPTH		0.0-10.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0
	SAND (+ NO 10 + NO. 200)	9
	SILT (+ 0.075 mm + 0.002 mm)	61
	CLAY (- 0.002 mm)	30
LIQUID LIMIT		44
PLASTIC LIMIT		20
PLASTICITY INDEX		24
ACTIVITY INDEX		0.8
SPECIFIC GRAVITY		2.62
AASHTO CLASSIFICATION		A-7-6(23)
UNIFIED CLASSIFICATION		CL
CALIFORNIA BEARING RATIO		-
MAXIMUM DRY DENSITY (pcf)		-
OPTIMUM MOISTURE (%)		-
% +4.75mm MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE, KY 80 NB ON RAMP
STA. 800+00 to 822+84.89

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

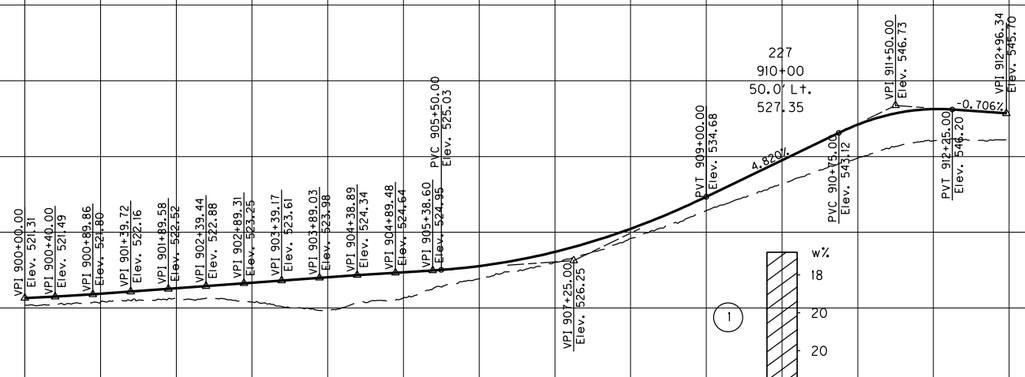
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R185

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 911+75 TO 912+50

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 907+25 TO 911+75 BOTH SIDES

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 900+75 TO 905+25

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 1000+25 TO 1005+75 BOTH SIDES



SAMPLE NO.		1	2
STATION		910+00	1007+00
OFFSET		50.0' Lt.	30.0' Rt.
DEPTH		0.0-17.0	0.0-6.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0	0
	SAND (- NO 10 + NO. 200)	3	26
	SILT (- 0.075 mm + 0.002 mm)	72	38
	CLAY (- 0.002 mm)	25	36
LIQUID LIMIT		39	39
PLASTIC LIMIT		20	16
PLASTICITY INDEX		19	23
ACTIVITY INDEX		0.76	0.63
SPECIFIC GRAVITY		2.64	2.58
AASHTO CLASSIFICATION		A-6(19)	A-6(15)
UNIFIED CLASSIFICATION		CL	CL
CALIFORNIA BEARING RATIO		-	-
MAXIMUM DRY DENSITY (pcf)		-	-
OPTIMUM MOISTURE (%)		-	-
% +4.75mm	MATERIAL IN CBR & MOISTURE-DENSITY TESTS	0	0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

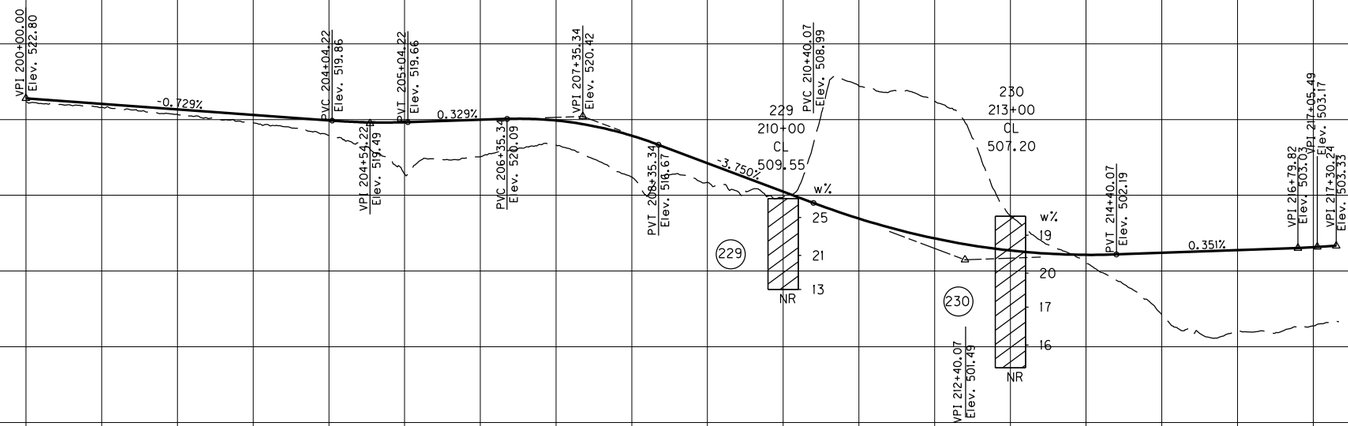
SOIL PROFILES
STA. 900+00 to 912+96.34, KY 80 RAMP C
STA. 1000+00 to 1011+59.08, KY 80 RAMP D

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R186

REFER TO GEOTECHNICAL NOTE #7 FOR STATIONS 205+75 TO 210+25

REFER TO GEOTECHNICAL NOTE #9 FOR STATION 214+06



SAMPLE NO.		229	230
STATION		210+00	213+00
OFFSET		CL	CL
DEPTH		0.0-12.0	0.0-20.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	0	1
	SAND (- NO 10 + NO. 200)	4	21
	SILT (- 0.075 mm + 0.002 mm)	69	54
	CLAY (- 0.002 mm)	27	25
LIQUID LIMIT		41	35
PLASTIC LIMIT		21	18
PLASTICITY INDEX		20	17
ACTIVITY INDEX		0.75	0.69
SPECIFIC GRAVITY		2.59	2.63
AASHTO CLASSIFICATION		A-7-6(21)	A-6(12)
UNIFIED CLASSIFICATION		CL	CL
CALIFORNIA BEARING RATIO		18	20
MAXIMUM DRY DENSITY (pcf)		115	115
OPTIMUM MOISTURE (%)		14	14
% +4.75mm	MATERIAL IN CBR & MOISTURE-DENSITY TESTS	0	0

SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00	211+00	212+00	213+00	214+00	215+00	216+00	217+00
522.2 522.80	521.5 522.07	520.6 521.34	519.5 520.62	517.9 519.89	516.7 519.64	515.2 519.97	513.6 519.87	512.1 517.86	511.5 514.24	509.9 510.49	524.4 506.92	522.2 504.30	507.0 502.70	500.3 502.13	493.9 502.40	492.0 502.75	492.9 503.14

SOIL PROFILE, I-69 SB ON RAMP
STA. 200+00 to 217+30.24

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R187

FACTORS OF SAFETY		
INTERMEDIATE TERM	A	1.9
LONG TERM	B	1.5

ASSUMED SOIL STRENGTH PARAMETERS	
SOIL	I
INTERMEDIATE TERM	γ = 120 pcf c = 200 psf ϕ = 32°
LONG TERM	γ = 120 pcf $\bar{c}$ = 40 psf $\bar{\phi}$ = 32°

Cut Limits from Sta. 400+00 to Sta. 408+50

234
402+50
70.0' Rt.
519.70
OW

QU (psf)	W%	LI	
	22	0.12	A-4(9), CL, S+C=93(75+18)
6990	19	0.13	A-6(10), CL, S+C=55(12+43)
2:1	14	-0.33	A-2-6(1), SC, S+C=35(6+29)
		0.00	N=35, A-2-4(0), SM, S+C=13(5+8)
			N=26
		0.00	N=24, A-2-4(0), SM, S+C=13(9+4)
			N=39
		0.00	N=84/1.00', A-3(0), SP-SM, S+C=10(6+5)
			N=57
		0.00	N=18, A-2-4(0), SC-SM, S+C=24(14+10)
			NR

(I) (II) A B

EX. COA
EX.EP
EX.EP

540 520 500 480 460

402+50

I-69 SB OFF RAMP

ASSUMED SOIL STRENGTH PARAMETERS	
SOIL	I
INTERMEDIATE TERM	γ = 120 pcf c = 200 psf ϕ = 32°
LONG TERM	γ = 120 pcf $\bar{c}$ = 40 psf $\bar{\phi}$ = 32°

FACTORS OF SAFETY		
INTERMEDIATE TERM	A	1.8
LONG TERM	B	1.6

Cut Limits from Sta. 1132+50 to Sta. 1141+00

233
1132+50
110.0' Lt.
521.40
OW

522.65

QU (psf)	W%	LI	
	22	0.00	A-6(14), CL, S+C=99(73+26)
1690	21	0.07	A-4(7), CL, S+C=92(75+18)
	19	0.09	A-6(11), CL, S+C=67(31+36)
	19	0.05	A-6(3), SC, S+C=45(12+34)
		0.00	A-2-4(0), SM, S+C=21(8+14)
		0.00	A-2-4(0), SM, S+C=18(9+9)
		0.00	A-3(0), SP-SM, S+C=5(2+3)
		0.00	A-3(0), SP-SM, S+C=6(3+3)
			N=27
			N=19
			N=35
			N=41
			N=52
			N=47
			N=43
			NR

(I) (II) 2:1 A B

EX. COA
EX.EP
EX.EP

560 540 520 500 480 460

1132+50

I-69

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

300 200 100 0 100 200 300

CUT STABILITY SECTIONS
STA. 1132+50, I-69
STA. 402+50, I-69 SB OFF RAMP

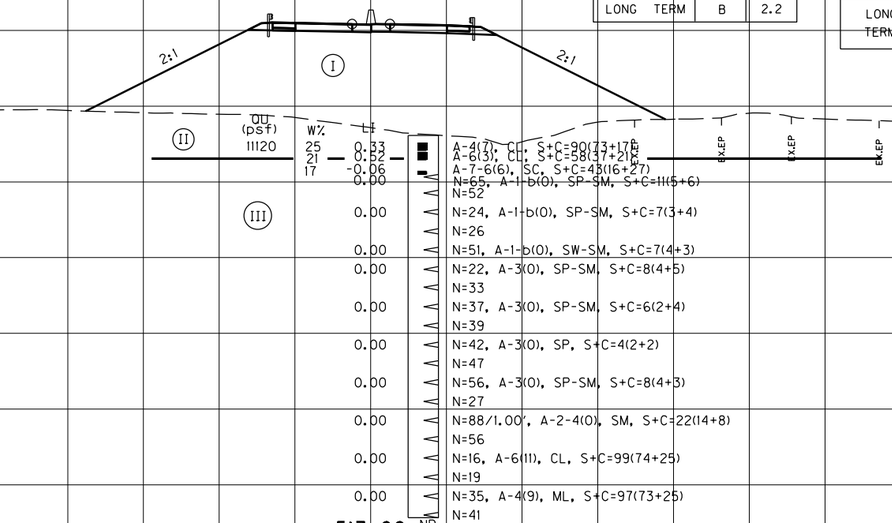
FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	R188

2003
516+89
16.0' Rt.
492.20

FACTORS OF SAFETY		
SHORT TERM	A	2.9
LONG TERM	B	2.2

ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
SHORT TERM	γ = 120 pcf c = 1500 psf ϕ = 0°	γ = 120 pcf c = 1200 psf ϕ = 0°	γ = 115 pcf c = 0 psf ϕ = 36°
LONG TERM	γ = 230 pcf $\bar{c}$ = 200 psf $\bar{\phi}$ = 32°	γ = 120 pcf $\bar{c}$ = 250 psf $\bar{\phi}$ = 38°	γ = 115 pcf $\bar{c}$ = 0 psf $\bar{\phi}$ = 36°


2:1
2:1
I
II
III
EX.EP
EX.EP
EX.EP

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T001

SIGNING

ESTIMATE OF QUANTITIES

ITEM	CODE NUMBER	UNIT	QUANTITY	TOTALS
GROUND MOUNTED SIGN SUPPORTS				
① TYPE A	6400	LBS.		9364
① TYPE C	6441	LBS.		3215
FOOTINGS FOR SIGNS				
CONCRETE - CLASS "A" FOR SIGNS	6490	CU.YD.		38
REINFORCEMENT STEEL	6491	LBS.		748
SIGN BASE MATERIAL				
ALUMINUM				
② PANEL SIGNS	6405	SQ.FT.		3631
③ SHEETING SIGNS				
0.080 GAUGE	6406	SQ.FT.		678
0.125 GAUGE	6407	SQ.FT.		787
STEEL POST ④⑤				
TYPE 1	6410	LN.FT.		2640
TYPE 2	6411	LN.FT.		
⑥ TYPE D	21596ND	EACH		16
⑦ MILE MARKERS	6412	EACH		2
REFERENCE MARKERS	4903	EACH		
REMOVAL ITEMS ⑧⑨				
REMOVE OVERHEAD SIGN SUPPORT				
STRUCTURE	6449	EACH		3
⑩ REMOVE OVERHEAD SIGN SUPPORT				
STRUCTURE CONCRETE BASE	6450	EACH		3
⑪ REMOVE SIGN SUPPORT BEAMS	6451	EACH		3
REMOVE SIGN	21373ND	EACH		2
MOVE CANTILEVER SIGN SUPPORT	20995ND	EACH		
REMOVE AND RELOCATE SIGN	20418ED	EACH		2
STEEL "W" BEAM GUARDRAIL				
SINGLE FACE	2351	LN.FT.		
DOUBLE FACE	2352	LN.FT.		
END TREATMENT TYPE 1	2367	EACH		
END TREATMENT TYPE 2A	2369	EACH		

ITEM	CODE NUMBER	UNIT	QUANTITY	TOTALS
OVERHEAD SIGN SUPPORTS ⑫				
OSS ALUMINUM 60 FT TRUSS	6422	EACH		3
OSS ALUMINUM 65 FT TRUSS	6424	EACH		
OSS ALUMINUM 70 FT TRUSS	6426	EACH		
OSS ALUMINUM 75 FT TRUSS	6436	EACH		
OSS ALUMINUM 80 FT TRUSS	6438	EACH		
OSS ALUMINUM 85 FT TRUSS	6443	EACH		
OSS ALUMINUM 90 FT TRUSS	6445	EACH		
OSS ALUMINUM 95 FT TRUSS	6453	EACH		
OSS ALUMINUM 100 FT TRUSS	6455	EACH		
OSS ALUMINUM 105 FT TRUSS	6457	EACH		
OSS ALUMINUM 110 FT TRUSS	6459	EACH		
OSS ALUMINUM 115 FT TRUSS	6461	EACH		
OSS ALUMINUM 120 FT TRUSS	6463	EACH		
OSS ALUMINUM 125 FT TRUSS	6465	EACH		
OSS ALUMINUM 130 FT TRUSS	6467	EACH		
OSS ALUMINUM 135 FT TRUSS	6469	EACH		
OSS ALUMINUM 140 FT TRUSS	6471	EACH		
OSS GALV STEEL CANTILEVER MOD	6201	EACH		
OSS GALV STEEL CANTILEVER	6415	EACH		4
SIGN BRIDGE ATTACHMENT BRACKET	6448	EACH		
MISCELLANEOUS				
BARRIER MOUNTING BRACKET	4904	EACH		13
BARRIER WALL POST	20912ND	EACH		13
ROADWAY CROSS SECTION	20419ND	EACH		18
FLEXIBLE DELINEATOR POSTS				
⑬ WHITE	6401	EACH		480
⑬ YELLOW	6404	EACH		135
STAKING	2726	L.S.		
FLASHING ARROW	2775	EACH		
DEMOBILIZATION	2569	L.S.		
MAINTAIN & CONTROL TRAFFIC	2650	L.S.		
⑮ REMOVE GUARDRAIL	2381	LF		⑮

NOTES :

(1) PAYMENT FOR GROUND MOUNTED SIGN SUPPORTS TYPE A AND TYPE C SHALL BE BASED ON THE NOMINAL WEIGHT OF THE BEAMS. THE NECESSARY GALVANIZING, HARDWARE, ETC. IS TO BE CONSIDERED INCIDENTAL. QUANTITIEIS FOR TYPE C SUPPORTS SHALL INCLUDE ALL NECESSARY HARDWARE TO FORM COMPLETE BREAK-AWAY BEAMS. SEE PANEL SIGN DETAIL SHEET.

(2) QUANTITY SHALL INCLUDE ALL COPY AND HARDWARE NECESSARY TO FORM COMPLETE SIGNS. NO DEDUCTION IN AREA IS TO BE MADE FOR ROUNDING OF CORNERS.

(3) WITH PERMISSION OF THE ENGINEER, SHEETING SIGNS ON THE RAMPS AND SIDE ROADS MAY BE MOVED TO BE COMPATIBLE WITH THE EXISTING SIGNS.

(4) QUANTITY IS ESTIMATED. THE EXACT LENGTH SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

(5) WHERE REQUIRED, BRACING FOR SHEETING SIGNS SHALL BE INCIDENTAL TO STEEL POST. SEE SHEETING SIGN DETAIL SHEET.

(6) QUANTITY SHALL INCLUDE ALL MATERIAL NECESSARY TO FORM A COMPLETE BREAK-AWAY ASSEMBLY. TYPE I POSTS AND CONCRETE SHALL BE PAID SEPARATELY. SEE SHEETING SIGN DETAIL SHEET.

(7) QUANTITY SHALL INCLUDE SIGN AND POST.

(8) ALL MATERIALS REMOVED AND NOT REUSED, SUCH AS SIGNS, SIGN LIGHTS, SIGN SUPPORTS, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

(9) THE REMOVAL OF ALL TYPE I OR II POSTS AND ALL SHEETING SIGNS SHALL BE INCIDENTAL TO THE PROJECT WITH NO ADDITIONAL PAYMENT BEING ALLOWED. ALL MATERIAL SHALL BE STORED IN ACCORDANCE WITH NOTE (8) ABOVE.

(10) WHERE THE REMOVAL OF OVERHEAD STRUCTURE CONCRETE BASE IS CALLED FOR, THE BASE IS TO BE REMOVED TO A MINIMUM OF ONE FOOT (1') BELOW THE GROUND LINE, BACKFILLED TO EXISTING GROUND LINE, AND THE DISTURBED AREAS RESEEDED.

(11) WHERE THE REMOVAL OF BEAM SIGN SUPPORTS IS CALLED FOR, THE BEAM AND ANY CONCRETE PROJECTING ABOVE THE GROUND LINE ARE TO BE CUT OFF A MINIMUM OF ONE FOOT (1') BELOW EXISTING GROUND LINE OR THE ENTIRE BEAM AND CONCRETE BASE ARE TO BE REMOVED COMPLETELY AND BACKFILLED TO EXISTING GROUND LINE.

(12) QUANTITY SHALL INCLUDE W-BARS AND ALL HARDWARE NECESSARY FOR ATTACHING SIGNS TO SUPPORTS.

(13) QUANTITY IS ESTIMATED. THE EXACT NUMBER SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. SEE SIGNING SEPIA 018 - FLEXIBLE DELINEATOR POST ARRANGEMENTS FOR HORIZONTAL CURVES AND SEPIA 019 - FLEXIBLE DELINEATOR POST ARRANGEMENT FOR INTERCHANGE RAMPS AND CROSSOVERS FOR DELINEATOR PLACEMENT.

(14) CONTRACTOR MUST DISPLAY LOGO SIGNS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BREAKAWAY POSTS IF NECESSARY OR PROTECTING SIGNS WITH GUARDRAIL. TEMPORARY PLACEMENT IS INCIDENTAL TO PANEL SIGNS.

(15) REMOVE 465 LF OF EXISTING GUARDRAIL IN MEDIAN AT MP 19.98. QUANTITY IS INCLUDED IN ROADWAY PLANS. EXISTING GUARDRAIL SHALL BE REMOVED, DISSEMBLED AND HAULED TO GRAVES COUNTY MAINTENANCE YARDS AS DIRECTED BY ENGINEER.

(16) CONTRACTOR MUST DISPLAY ADVANCE GUIDE AND INTERCHANGE EXIT DIRECTION SIGNS FOR US45 AND KY80 AT ALL TIMES DURING CONSTRUCTION. SIGN PLACEMENT SHALL CORRELATE WITH MAINTENANCE OF TRAFFIC PLAN. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BREAKAWAY POSTS IF NECESSARY OR PROTECTING WITH GUARDRAIL. TEMPORARY PLACEMENT, REMOVAL, AND RELOCATION OF SIGNS IS INCIDENTAL TO PANEL SIGNS.

SIGNING QUANTITY SHEET

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T001 SIGNING SUMMARY OF QUANTITIES.DGN
USER: andrew-b
DATE PLOTTED: July 23, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T002

SIGNING SPECIFICATION NOTES

THE FOLLOWING PUBLICATIONS ARE APPLICABLE TO THE WORK DESCRIBED HEREIN:

KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2012)
STANDARD HIGHWAY SIGNS -- FEDERAL HIGHWAY ADMINISTRATION
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION REVISED IN 2012) -- FEDERAL HIGHWAY ADMINISTRATION

SCOPE OF WORK

TO FURNISH, FABRICATE AND ERECT IN PLACE ALL MATERIALS NECESSARY TO FORM COMPLETED SIGNS AS INDICATED AT LOCATIONS DESCRIBED ELSEWHERE IN THESE PLANS.

SIGN BASE MATERIAL

PANEL SIGNS:

PANEL SIGNS ARE TO BE FABRICATED FROM TWELVE INCH (12") WIDE ALUMINUM EXTRUSIONS AND, WHERE NOTED, COMPATIBLE SIX INCH (6") WIDE ALUMINUM EXTRUSIONS. WHEN A SIX INCH (6") EXTRUSION IS SPECIFIED, IT SHALL BE USED AS THE BOTTOM PANEL OF THE SIGN. TYPICAL CROSS-SECTIONS AND MINIMUM WEIGHTS PER FOOT ARE SHOWN ON THE MISCELLANEOUS DETAIL SHEET, COMPATIBLE SIDE EXTRUSIONS SHALL BE USED ON ALL SIGN EDGES. ALUMINUM MATERIAL FOR ALL EXTRUSIONS SHALL BE ALLOY 6063-T6 ASTM B221. ALL PORTIONS OF EXTRUSIONS WHICH ARE TO COMPOSE THE SIGN FACE SHALL BE PREPARED TO RECEIVE RETROREFLECTIVE BACKGROUND MATERIAL ACCORDING TO THE EXTRUSION AND RETROREFLECTIVE MATERIAL MANUFACTURER'S RECOMMENDATIONS. ALL REMAINING PORTIONS OF EXTRUSIONS (FRONT AND BACK) AND SIDE EXTRUSIONS ARE TO HAVE A SOFT MATTE FINISH. PANEL SIGNS SHALL BE LABELED AS P-*.

SHEET SIGNS:

SHEET SIGNS SHALL BE FABRICATED FROM EITHER 0.080 GAUGE OR 0.125 GAUGE ALUMINUM ALLOY 5052-H38 OR 6061-T6 SHEETS IN ACCORDANCE WITH ASTM B209 AND SHALL BE OF THE SIZE AND SHAPE SPECIFIED. THE SIDE OF THE SHEET TO BE USED AS THE SIGN FACE SHALL BE PREPARED TO RECEIVE RETROFLECTIVE BACKGROUND MATERIAL ACCORDING TO THE ALUMINUM SHHET AND RETRFLECTIVE MATERIAL MANUFACTURER'S RECOMMENDATIONS. SHEETING SIGNS SHALL BE LABELED AS S-*.

SIGN MATERIALS

BACKGROUND MATERIAL:

SIGN SHEETING USED AS BACKGROUND MATERIAL FOR SIGN FACES IS TO BE THE COLOR SPECIFIED AND VISUALLY IN ACCORDANCE WITH STANDARD INTERSTATE COLORS. THIS MATERIAL (EXCEPT BLACK PORTIONS) SHALL BE RETROREFLECTORIZED AND MUST CONFORM TO THE REQUIREMENTS OF ASTM D 4956 FOR TYPE III SHEETING, AND SHALL MEET THE REQUIREMENTS OF SECTION 830 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

IN THE EVENT THAT GLASS BEAD ENCAPSULATED TYPE III SHEETING IS UTILIZED IT SHALL CONSIST OF:

RETROREFLECTIVE SHEETING HAVING AN INTEGRAL OR AIR CAVITY BETWEEN THE FRONT SURFACE AND THE OPTICAL ELEMENTS, MOUNTED ON AND FULLY COVERING ALUMINUM BASE COPY STOCK NOT OTHERWISE EMBOSSED OR CRIMPED BUT HAVING SUFFICIENT THICKNESS AND RIGIDITY TO PREVENT WARPING WHEN MOUNTED OR FASTENED TO THE SIGN PANEL.

ALL RETROREFLECTIVE MATERIALS SHALL BE FABRICATED AND ASSEMBLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.

LETTERS SYMBOLS, AND BORDERS:

LETTER, SYMBOLS, AND BORDERS FOR PANEL SIGNS SHALL MEET REQUIREMENTS OF SECTION 830 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THIS MATERIAL SHALL BE RETROREFLECTORIZED AND MUST CONFORM TO ALL THE REQUIREMENTS OF ASTM D 4956 FOR TYPE VIII, OR IX SHEETING.

ALL ATTACHMENTS OF REMOVABLE COPY TO SIGN FACES SHALL BE MADE WITH "POP FASTENERS ("POP" RIVETS). "POP" RIVETS SHALL BE OF THE PROTRUDING HEAD TYPE. BOTH THE RIVET AND MANDREL SHALL BE CORROSION RESISTANT TO THE MATERIAL IN WHICH IT IS INSERTED. COPY SHALL BE AFFIXED WITH A MINIMUM SIZE OF 1/8 INCH DIAMETER "POP" RIVETS, AND THE LENGTH SHALL BE AS NECESSARY TO PROPERLY APPLY COPY IN A WORKMANLIKE MANNER. PANEL OVERLAY SECTIONS SHALL BE AFFIXED WITH A "POP" RIVET WITH A MINIMUM DIAMETER OF 3/16 INCH, AND THE

LENGTH SHALL BE AS NECESSARY TO PROPERLYAPPLY COPY IN A WORKMANLIKE MANNER. ALL RIVETS SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK ON THE PROJECT.

ROUTE MARKERS:

ROUTE MARKERS FOR PANEL SIGN MOUNTING ONLY, ARE TO BE A RETROREFLECTORIZED WHITE CUT-OUT OF THE U.S. ROUTE SHIELD OR KENTUCKY ROUTE SHIELD, OMITTING THE BLACK BACKGROUND ON THE STANDARD RECTANGULAR SHAPES. BORDERS ARE NOT TO BE USED ON THE CUT-OUT SHAPES AND THEIR DIMENSIONS ARE TO BE AS SHOWN IN THE STANDARD HIGHWAY SIGNS MANUAL. ROUTE MARKERS ARE TO BE SPACED EVENLY ACROSS THE PANEL SIGN FACE.

ROUTE MARKERS FOR PANEL SIGNS SHALL MEET THE REQUIREMENTS OF SECTION 830 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THIS MATERIAL SHALL BE RETROREFLECTORIZED AND MUST CONFORM TO THE REQUIREMENTS OF ASTM D 4956 FOR TYPE III SHEETING. THE SHEETING SHALL BE MOUNTED ON ALUMINUM BASE COPY STOCK WITH A MINIMUM THICKNESS OF 0.080 INCHES.

DESTINATION-DIRECTION SIGNS:

DESTINATION-DIRECTION SIGNS ARE TO BE OF THE SIZE INDICATED, AND SHALL HAVE SILVER/WHITE LETTERS, SYMBOLS, AND BORDERS. THIS MATERIAL SHALL BE RETROREFLECTORIZED AND MUST CONFORM TO THE REQUIREMENTS OF ASTM D 4956 FOR TYPE III SHEETING, AND SHALL MEET THE CONDITIONS OF SECTION 830 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. (SHEETING SIGNS ONLY)

SIGN MESSAGES:

SIGN MESSAGES SHOWN ARE ULTIMATE MESSAGES. DUE TO PARTIAL CONSTRUCTION, IT MAY BE NECESSARY TO MAKE CHANGES IN SOME OF THESE MESSAGES. THESE CHANGES WILL BE DETERMINED BY THE ENGINEER. SHOULD A SIGN CHANGE BE DETERMINED BEFORE THE SIGN IS INSTALLED, THE ULTIMATE MESSAGE COPY WILL BE STORED ON THE PROJECT BY THE CONTRACTOR. SHOULD A SIGN CHANGE BE DETERMINED AFTER INSTALLATION, STATE FORCES WILL REMOVE THE ULTIMATE MESSAGE. COPY WILL BE STORED BY THE STATE UNTIL APPLICABLE, AT WHICH TIME IT WILL BE INSTALLED BY STATE FORCES. ANY COPY NEEDED FOR A TEMPORARY MESSAGE WILL BE SUPPLIED AND INSTALLED BY THE STATE.

HARDWARE:

ALL HARDWARE FOR THE ASSEMBLY OF PANEL SIGNS AND THE ATTACHMENT OF THESE SIGNS TO THEIR SUPPORTS SHALL BE AS RECOMMENDED BY THE PANEL MANUFACTURER. PLACEMENT OF POST CLIP SHALL BE AS SHOWN ON THE SIGNING MISCELLANEOUS DETAIL SHEET.

ALL HARDWARE FOR THE ERECTION OF SHEETING SIGNS SHALL BE CADMIUM PLATED STEEL IN ACCORDANCE WITH ASTM B-776 AND ASTM A-307.

GROUND-MOUNTED SIGN SUPPORTS

GENERAL:

ALL SIGNS SHALL BE POSITIONED AS SHOWN ON THE POSITIONING DETAIL SHEET. ALL BEAMS AND POSTS SHALL BE OF SUFFICIENT LENGTHS TO EXTEND FROM THE TOP OF THE SIGN TO THE REQUIRED BASE EMBEDMENT. GROUND MOUNTED SIGNS ARE NOT TO BE LOCATED NEXT TO, UNDER, OR ON AN OVERHEAD SIGN.

BEAMS:

ALL BEAMS SHALL BE EITHER TYPE "A" (STANDARD BEAM INSTALLATION), OR TYPE "C" (BREAKAWAY SIGN POST SUPPORT SYSTEM INSTALLATION). TYPE "A" BEAMS ARE SHOWN ON THE PANEL SIGN DETAIL SHEET, AND THE TYPE "C" BEAMS ARE SHOWN ON THE BREAKAWAY SIGN SUPPORT SYSTEM FOR "C" BEAM SHEET. APPROVED MANUFACTURERS FOR BREAKAWY (TYPE "C") BEAM SUPPORT SYSTEMS HAVE BEEN PLACED ON THE LIST OF APPROVED MATERIALS. THE TYPE AND SIZE OF BEAM TO BE USED SHALL BE INDICATED FOR EACH PANEL SIGN ON THE SIGN DETAIL SHEETS. BEAM LENGTHS INCLUDED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AT EACH SIGN LOCATION AND CROSS SECTIONS SHALL BE DEVELOPED TO VERIFY BEAM LENGTHS, WITH ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

BEAMS SHALL BE A-36 STEEL GALVANIZED IN ACCORDANCE WITH ASTM A-123, CURRENT EDITION.

STEEL POSTS:

TYPE I STEEL POSTS SHALL BE EITHER STANDARD INSTALLATION IN SOIL, WITH SOIL STABILIZER, OR TYPE "D" (BREAKAWAY SIGN POST SUPPORT SYSTEM INSTALLATION). APPROVED MANUFACTURERS FOR BREAKAWAY (TYPE "D") POST SYSTEMS HAVE BEEN PLACED ON THE LIST OF APPROVED MATERIALS. BRACING, IF REQUIRED, SHALL BE INCIDENTAL TO TYPE I POST.

TYPE II POST SHALL BE STANDARD INSTALLATION IN SOIL, WITH A SOIL STABILIZER. INSTALLATION PROCEDURES AND BRACING REQUIREMENTS ARE DETAILED ON THE SHEETING SIGN DETAIL SHEET.

ALL STEEL POST SHALL MEET THE REQUIREMENTS OF SECTION 832 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH THE EXCEPTION THAT TYPE I POST SHALL BE PROVIDED IN THE FOLLOWING SIZES:

Outside Dimensions (in.)	Corner Radii (in.)	Wall Thickness Gauge (in.)	Weight (lb/ft)
2 by 2	5/32	(.105) 12	2.42
2 1/2 by 2 1/2	5/32	(.105) 12	3.14
2 1/2 by 2 1/2	5/32	(.135) 10	4.01

SCALE: 1"=

SIGNING SPECIFICATION SHEET

MicroStation v8.11.9.357 E-SHEET NAME: USER: will DATE PLOTTED: October 30, 2014 FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T002 SIGNING GENERAL NOTES.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T003

SIGNING SPECIFICATION NOTES

MILEPOST MARKERS

MILEPOST MARKERS SHALL CONFORM TO THE GENERAL REQUIREMENTS SET FORTH IN SECTION 2D-45 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ADDTIONAL REQUIREMENTS ARE GIVEN ON THE SIGNING POSITIONING DETAIL SHEET.

SIGN PANELS ARE TO BE FABRICATED FROM 0.080 GAUGE ALUMINUM ALLOY 5052-H38 SHEET IN ACCORDANCE WITH ASTM B209, AND SECTION 833 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE SIGN PANELS SHALL BE PROPERLY PREPARED TO RECEIVE THE RETROREFLECTIVE BACKGROUND MATERIAL ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. DIMENSIONS FOR ONE, TWO, AND THREE DIGIT SIGNS ARE SHOWN ON THE SIGNING POSITIONING DETAIL SHEET.

BACKGROUND MATERIAL SHALL BE STANDARD INTERSTATE GREEN IN COLOR AND SHALL BE RETROREFLECTORIZED. COPY IS TO BE SILVER/WHITE RETROREFLECTIZED, TEN INCH (10") SERIES "C" NUMERALS OF THE CUT-OUT, NONREMOVABLE TYPE. BOTH BACKGROUND AND COPY MATERIAL MUST MEET TYPE III, CLASS "I" REQUIEMENTS OF SECTION 830 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MINIMUM LENGTHS OF POST SHALL BE TEN FEET (10') WHEN USED WITH ONE DIGIT MARKER, ELEVEN FEET (11') WITH TWO DIGIT MARKER, AND TWELVE FEET (12') WITH THREE DIGIT MARKER. POSTS SHALL BE DRIVEN AND SIGN PANELS MOUNTED TO MAINTAIN FOUR FEET (4') VERTICAL CLEARANCE FROM THE ELEVATION OF THE NEAREST EDGE OF ROADWAY PAVEMENT TO THE BOTTOM OF THE SIGN FACE.

FLEXIBLE DELINEATORS

THE FLEXIBLE DELINEATOR POST SHALL BE AS DESCRIBED IN SECTION 838 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND INSTALLED AS DIRECTED BY THE MANUFACTURER'S RECOMMENDATIONS. THE RETROREFLECTIVE MATERIAL SHALL MEET THE REQUIREMNTS OF TYPE C, CLASS "I" AS DESCRIBED IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THEY SHALL BE ERECTED IN SUCH A MANNER THAT THE TOP OF THE REFLECTIVE UNIT SHALL BE FOUR FEET (4') ABOVE THE GRADE OF THE PAVEMENT EDGE. THE COLOR OF THE DELINEATORS SHALL IN ALL CASES CONFORM TO THE COLOR OF EDGELINES STIPULATED. DELINEATORS SHALL ONLY BE ERECTED ON THE HORIZONTAL CURVES ON THE RIGHT SIDE OF THE MAINLINE OF EXPRESSWAY AND FREEWAY ROADWAYS AND ON AT LEAST ONE SIDE OF INTERCHANGE RAMPS WHETHER OR NOT A FIXED SOURCE LIGHTING IS INSTALLED. NO DELINEATORS SHALL BE ERECTED ON MAINLINE TANGENT SECTIONS OF EXPRESSWAYS AND FREEWAYS. DELINEATORS SHOULD BE ERECTED AT 100 FOOT (100') INTERVALS ALONG ACCELERATION AND DECELERATION LANES. THE SPACING OF THE DELINEATORS ON HORIZONTAL CURVES SHALL BE BASED ON THE TABLE AND FORMULA SHOWN ON THE POSITIONING DETAIL SHEET. DELINEATORS AT INTERCHANGE RAMPS SHALL BE SPACED AT A MAXIMUM OF 100 FEET (100')

INTERCHANGE RAMP DESIGN IS SUFFICIENTLY VARIED THAT NO SINGLE DELINEATOR SPACING CAN FIT EVERY SITUATION; THEREFORE, THE TYPICAL DELINEATION AND SPACING VALUE TABLE SHOWN ON THE POSITIONING DETAIL SHEET AND SECTION 3D-04 OF THE 2003 MUTCD SHOULD BE EMPLOYED AS A GUIDE TO DELINEATOR PLACEMENT ON INTERCHANGE RAMPS.

LATERAL AND VERTICAL CLEARANCES ARE SHOWN ON THE POSITIONING DETAIL SHEET. INSTALLATION OF DELINEATORS ON CROSSROADS SHALL BE LIMITED TO DECELERATION AND ACCELERATION LANES SERVING MAIN LINE RAMPS.

MEDIAN CROSSOVER SIGN

THE CONTRACTOR SHALL INSTALL 48" X 48", "NO U TURN" SIGNS (R3-4) AT EACH MEDIAN CROSSOVER. THIS IS TO BE DONE WHETHER ALL NEEDED INSTALLATIONS ARE MENTIONED IN THE FOLLOWING SHEETS OR NOT. AT CROSSOVERS ON MEDIANS SIXTY FEET (60') WIDE AND UNDER, THE SIGNS SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON THE SAME POSTS IN THE CENTER OF THE MEDIAN, ONE FACING TRAFFIC IN EACH DIRECTION. AT CROSSOVERS ON MEDIANS OVER SIXTY FEET (60') WIDE, THE SIGNS SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON SEPARATE POSTS AT THE MEDIAN SHOULDER ON THE FAR SIDE OF THE CROSSOVER, ONE FACING TRAFFIC IN EACH DIRECTION.

CONCRETE BASES

ALL CONCRETE BASES SHALL BE OF CLASS "A" CONCRETE FOR SIGNS AND SHALL BE AS SHOWN ELSEWHERE IN THESE PLANS.

EXCAVATION NECESSARY TO CONSTRUCT BASES AND FOOTINGS IS INCIDENTAL TO THE COST OF CLASS "A" CONCRETE FOR SIGNS.

SAMPLES, TESTING, ETC.

BEFORE BEGINNING INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE RESIDENT OR PROJECT ENGINEER FOR WRITTEN APPROVAL DRAWINGS, DESCRIPTIONS, MANUFACTURER'S CUTS ETC. COVERING ALL MATERIALS TO BE USED. MILL TEST REPORTS FOR BEAMS, STEEL PANELS, AND EACH DIFFERENT GAUGE OF ALUMINUM OR STEEL SHEETING USED MUST BE SUBMITTED TO THE DIVISION OF CONSTRUCTION AND APPROVED PRIOR TO ERECTION.

MISCELLANOUS

RIGHT IS RESERVED TO INSPECT FABRICATION AND ERECTION WORK, AN INSPECTION (DAY AND NIGHT) WILL BE MADE AFTER COMPLETION OF INSTALLATION TO DETERMINE IF THE INTENT OF THE SPECIFICATIONS IS SATISIFIED.

NEW CONCRETE BASES, SUPPORT BEAMS, ETC. ARE TO BE INSTALLED PRIOR TO DISMANTLING ANY EXISTING SIGN. IF ANY EXISTING SIGNS ARE TO BE OUT OF SERVICE FOR MORE THAN ONE WORK SHIFT, TEMPORARY SIGNING OF THE PROPER SHAPE, AND WITH COPY OF SIMILAR CONFIGURATION TO THE EXISTING SIGNING SHALL BE INSTALLED AT THE SAME APPROXIMATE STATION AS THE OUT-OF-SERVICE SIGN. THE COST OF ANY TEMPORARY SIGNING SO USED SHALL BE INCIDENTAL TO THE COST OF REMOVAL OF EXISTING SIGN SUPPORT BEAMS.

THE REMOVAL OF BEAM SIGN SUPPORTS IS TO BE DONE CONCURRENTLY WITH THE RELOCATION OF AFFECTED SIGNS TO NEW SUPPORTS.

IF A MANUFACTURER'S WARRANTY IS FURNISHED TO THE CONTRACTOR ON ANY MATERIALS COVERED UNDER THESE SPECIFICATIONS, THE SAME WARRANTY SHALL BE FURNISHED TO THE STATE BY THE CONTRACTOR.

ALL SIGNS ARE TO BE LOCATED AT THE APPROXIMATE STATIONS LISTED AND THE EXACT LOCATION FOR EACH SIGN SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER; HOWEVER, IF AN SIGN IS RELOCATED MORE THAN TWENTY-FIVE FEET (25') FROM THE STATION LISTED, THE NEW LOCATION MUST BE APPROVED BY THE DIVISION OF HIGHWAY DESIGN AT (502) 564-3280.

ON SHEETING SIGNS WHERE THERE ARE MORE THAN ONE SIGN ASSEMBLY MOUNTED BEDSIDE EACH OTHER, THE POST SHALL BE SPACED TO PROVIDE APPROXIMATELY SIX INCHES (6") OF SPACING BETWEEN SIGNS.

CLEARING AND GRUBBING, AND TREE TRIMMING, WHEN REQUIRED FOR CONSTRUCTION OF THE SIGN PANELS, WILL BE INCIDENTAL TO THE CONTRACT AND NO DIRECT PAYMENT WILL BE ALLOWED.

SIGN COVERING IS NOT RECOMMENDED. HOWEVER, IF IT IS ABSOLUTELY NECESSARY TO COVER THE SIGN FACE TEMPORARILY FOLLOWING ERECTION, USE CAUTION SINCE SOME COVERINGS MAY CAUSE PERMANENT DAMAGE TO THE SIGN FACE FOLLOWING EXPOSURE TO MOISTURE, SUNLIGHT, ETC. POROUS CLOTH OR GEOTEXTILE FABRIC COVERS WHICH ARE FOLDED OVER THE SIGN EDGES AND SECURED AT THE BACK OF THE SIGN HAVE BEEN USED SUCCESSFULLY FOR LIMITED PERIODS. DO NOT USE TAPE, PAPER, PLASTIC, OR SHEET METAL COVERS. ANY SIGNS THAT ARE DAMAGED AS A RESULT OF COVERING SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

TYPE I AND II STEEL POST IN SOIL SHALL BE DRIVEN FOUR FEET (4') BELOW THE GROUND LINE AS SHOWN. HOWEVER, IF SOILD ROCK IS ENCOUNTERED THE CONTRACTOR SHALL DRILL HOLES OF THE REQUIRED DEPTH INTO THE ROCK, AND BACKFILL WITH CONCRETE. THE COST SHALL BE INCIDENTAL TO STEEL POST, AND SOIL STABILIZERS WILL NOT BE REQUIRED.

ANY AREA DISTURBED SHALL BE SIDE GRADED TO THE EXISTING SLOPES AND RESEEDED AS DIRECTED BY THE ENGINEER, AND AT NO ADDITIONAL COST TO THE DEPARTMENT.

SCALE: 1"=

SIGNING SPECIFICATION SHEET

MicroStation v8.11.9.578
E-SHEET NAME:
USER: James-f
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T003 SIGNING GENERAL NOTES.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T004

SPECIAL NOTES AND DETAIL

1. NEW SIGNS ARE TO BE INSTALLED AT EXISTING LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

2. EXISTING I-BEAMS ON WHICH SHEETING SIGNS ARE ATTACHED SHALL BE REMOVED AND REPLACED WITH TYPE II POSTS, UNLESS THEY ARE LOCATED BEHIND GUARDRAIL.

3. DO NOT REMOVE OR DISTURB SUCH SIGNS AS "KEEP/RIGHT/EXCEPT/TO PASS", "$500/ FINE/FOR/LITTERING" OR "EXTENDED WEIGHT LIMIT" SIGNS.

4. REMOVE AND DO NOT REPLACE THE WHITE ON BLUE GENERAL SERVICES SIGNS AT THE EXIT RAMP TERMINALS, "EMERGENCY STOPPING ONLY" SIGNS, AND THE ROUTE MARKER THAT IS LOCATED INSIDE THE INTERCHANGE PAST THE EXIT GORE AREA.

5. ADVISORY EXIT SPEED SIGNS (W13-2) SHOULD BE POSTED ALONG THE DECELERATION LANE SO THEY WILL BE VISABLE FROM A SUFFICIENT DISTANCE.

6. ALL EXISTING SHEETING SIGNS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REMOVED FROM THE POSTS AND REPLACED WITH NEW IDENTICAL SIGNS, AS SHOWN ON THE SIGNING PLANS, UNLESS OTHERWISE SPECIFIED. HOWEVER, ANY POSTS THAT ARE DAMAGED, SPLICED, OR DO NOT CONFORM TO THE MOUNTING SPECIFICATIONS SHOWN ON THE "POSITIONING DETAIL SHEET" MUST BE REPLACED WITH NEW POSTS OF THE SAME TYPE AND SIZE AS DIRECTED AND APPROVED BY THE ENGINEER. THE REMOVED SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE COST FOR REMOVING EXISTING SHEETING SIGNS AND POSTS, RESETTING EXISTING POSTS, RELOCATING EXISTING POSTS AND SIGNS TO CONFORM TO THE SIGNING PLANS AND SPECIFICATIONS, AND ALL HARDWARE REQUIRED TO ATTACH THE NEW SIGNS TO THE EXISTING SUPPORTS SHALL BE INCIDENTAL TO THE PROJECT. IN ADDITION TO REPLACING ALL EXISTING SIGNS, ALL SIGNS SHOWN ON THE SIGNING PLANS MUST BE INSTALLED. FOR SIGN SIZES AND SPECIFICATIONS, SEE THE CURRENT PROJECT SIGNING PLANS DETAIL SHEETS.

7. IN THE GORE AREAS WHERE NEW EXIT GORE SIGNS AND BEAMS ARE TO BE CONSTRUCTED, ANY EXISTING CONCRETE AND STUB PROJECTIONS SHALL BE REMOVED OR CUT OFF ONE FOOT BELOW THE GROUND LINE. THE COST SHALL BE INCIDENTAL TO THE PROJECT.

8. THE COST FOR ANY SIGN BRACKETS AND ANY OTHER HARDWARE REQUIRED TO ATTACH NEW SIGNS ON EXISTING TRUSSES AND CANTILEVERS SHALL BE INCLUDED IN THE UNIT PRICE OF SIGN BASE MATERIAL FOR PANEL SIGNS.

9. DUPLICATE SIGNS SHALL NOT BE DISPLAYED DURING THE CONSTRUCTION OF THIS PROJECT.

10. SHEETING SIGNS (D1-1, D1-2, D1-3) EQUAL OR LESS THAN 72" X 42" REQUIRE TWO TYPE II POSTS.

11. REPLACE ALL SIGNS SUCH AS "NO U TURN" (R3-4), 48" X 48", S.B.M. (.125 OR 12), "DEER/CROSSING" (W11-3), 48" X 48", S.B.M. (.125 OR 12), "BRIDGES/FREEZE/BEFORE/ROADWAY" BLACK ON YELLOW, 48" X 48", (.125 OR 12), AND "MILE POST MARKERS". SEE SIGN SPECIFICATION SHEET FOR DETAILS.

12. THE COST FOR REMOVING EXISTING PANEL SIGNS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.

13. THE COST FOR REMOVING LIGHT FIXTURES FROM EXISTING SIGNS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.

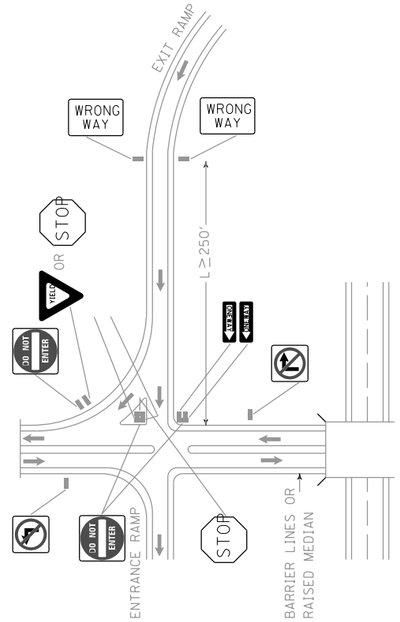
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY TREES THAT OBSCURE THE SIGNS, AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCIDENTAL TO THE PROJECT.

15. THE EXIT NUMBER SIGN ON ALL EXISTING SIGNS SHOWN ON THESE PLANS SHALL BE REPOSITIONED TO THE RIGHT OF THE SIGN AS SHOWN ON THE MISCELLANEOUS DETAIL SHEET, WITH THE EXCEPTION OF EXIT NUMBER SIGNS NOTED.

16. THE HORIZONTAL CLEARANCE "X" ON ALL THE SHEETING SIGNS SHOULD BE A MINIMUM OF 6 FT. WHERE POSSIBLE, AS SHOWN ON THE SIGNING POSITIONING DETAIL SHEET.

17. IF ANY SIGN IS LOCATED NEAR A LUMINAIRE OR ANOTHER POLE, IT SHALL BE INSTALLED IN ADVANCE OF THE POLE SO THAT THE MOTORISTS VIEW OF THE SIGN WILL NOT BE OBSTRUCTED.

18. THE SIGNS THAT DO NOT COMPLY WITH THE "MUTCD" SHALL BE REMOVED BY THE CONTRACTOR AS APPROVED AND DIRECTED BY THE ENGINEER.



TYPICAL REGULATORY SIGNING AT RAMP TERMINALS

NOT TO SCALE

SIGNING PLANS

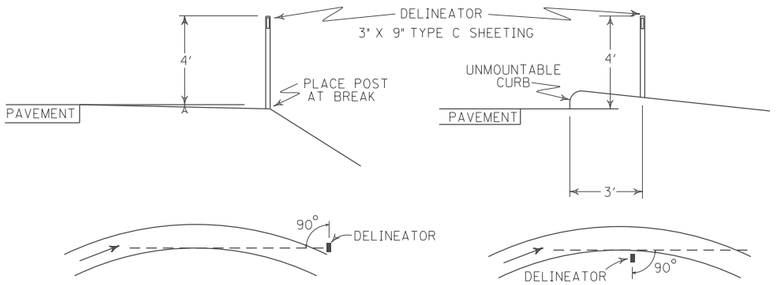
SIGNING SPECIAL NOTES AND DETAILS

MicroStation v8.11.9.578
E-SHEET NAME:
USER: James-f
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T004 GENERAL DETAILS SPEC NOTES SHEET.DGN

MicroStation v8.11.9.357
E-SHEET NAME:
USER: andrew-b
DATE PLOTTED: June 18, 2015
FILE NAME: c:\PW_WORKDIR\ANDREW-B\DMS01404\T005 POSITIONING DETAIL SHEET.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T005

DELINEATORS



FLEXIBLE DELINEATOR POST POSITIONING & MOUNTING DETAILS

SPACING FOR HIGHWAY DELINEATORS ON HORIZIONTAL CURVES

(DISTANCE IN FEET ROUNDED TO THE NEAREST 5 FEET)

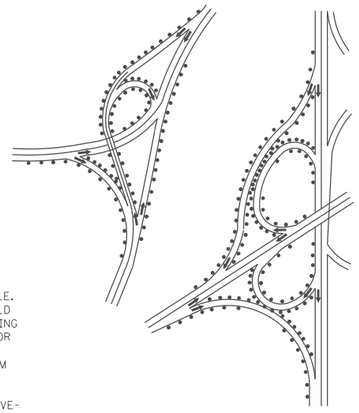
RADIUS OF CURVE (IN FEET)	SPACING ON CURVE (IN FEET)	SPACING IN ADVANCE AND BEYOND CURVE (IN FEET)		
		1ST	2ND	3RD
50	20	40	65	125
150	30	60	90	180
200	35	70	110	215
250	40	85	125	250
300	50	95	145	290
400	55	110	170	300
500	65	125	190	300
600	70	140	210	300
700	75	150	230	300
800	80	165	245	300
900	85	175	260	300
1000	90	185	275	300

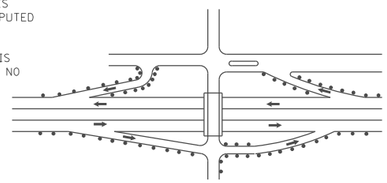
SPACING FOR SPECIFIC RADII NOT SHOWN MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FEET. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET. S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA $S=3\sqrt{R-50}$.

DELINEATION ON THE TANGENT SECTION OF THE MAINLINE WHERE RAISED PAVEMENT MARKERS ARE IN PLACE IS NOT REQUIRED. HOWEVER, DELINEATION IS REQUIRED ON ALL CURVES OF THE MAINLINE. THE SPACING SHALL BE COMPUTED FROM THE FORMULA $S=3\sqrt{R-50}$.

NOTE: CHANNELIZATION ON RAISED ISLANDS ON RAMPS AT RAMP TERMINI IS TO BE DELINEATED WITH A MINIMUM OF THREE DELINEATORS PER ISLAND. NO DELINEATION ON PAINTED ISLANDS.

FOR ADDITIONAL INFORMATION ON DELINEATION, SEE SECTION 3D OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.





TYPICAL INTERCHANGES RAMP DELINEATION

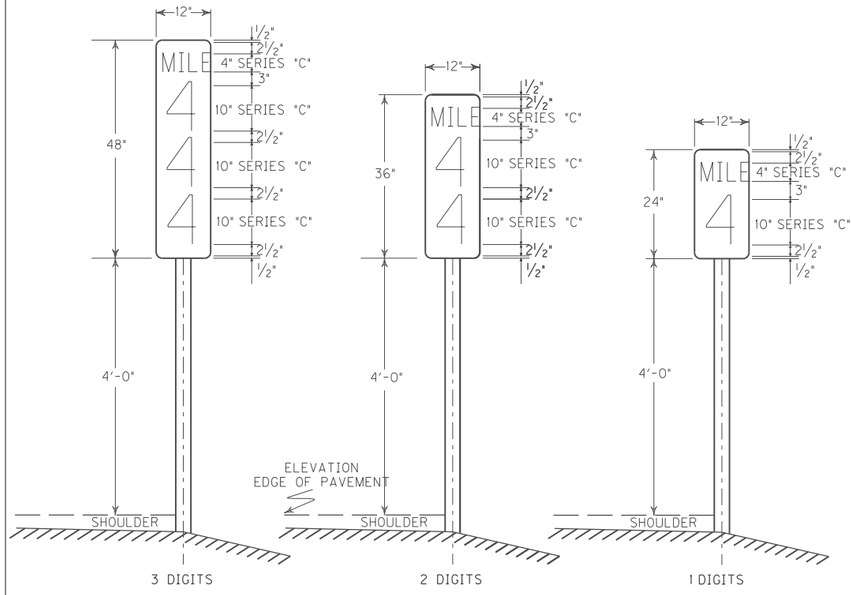


MEDIAN 60' WIDE OR LESS

MEDIAN WIDER THAN 60'

DELINEATION OF MEDIAN CROSSOVER

MILEPOSTS



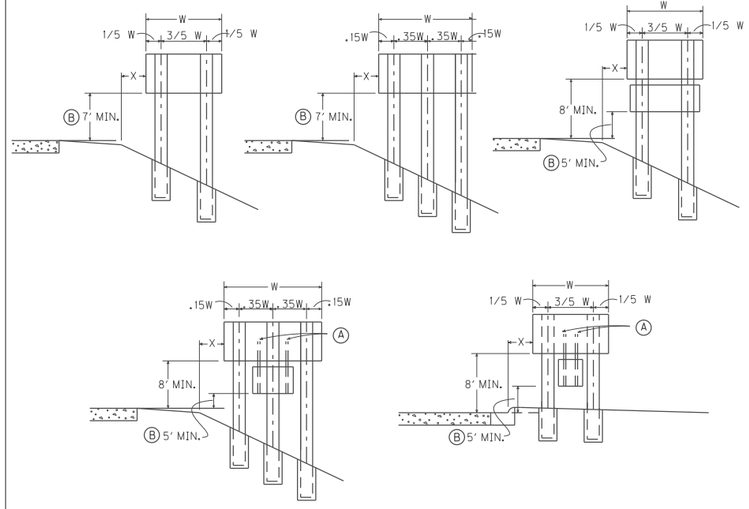
TYPICAL SIGN PANEL DIMENSIONS AND MILEPOST LOCATION

MILE POST NUMBER	STATION NUMBER * NB BOUND LANE (S)
22	1149+50

MILE POST NUMBER	STATION NUMBER * SB BOUND LANE (S)
22	1149+50

NOTE: STATION NUMBERS ARE GIVEN FOR NOTED DIRECTION OF TRAVEL ONLY. CORRESPONDING MILEPOSTS FOR OTHER DIRECTION SHOULD BE PLACED DIRECTLY OPPOSITE THOSE FOR WHICH STATION NUMBERS ARE GIVEN.

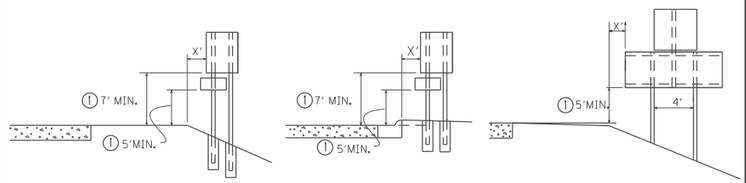
PANEL SIGNS



Ⓐ ATTACHMENT OF SECONDARY SIGN TO MAJOR SIGN IS TO BE MADE WITH TWO (2) 3" X 3" X 3/16" ANGLES OF SUFFICIENT LENGTH TO EXTEND FROM THE LOWER EDGE OF THE SECONDARY SIGN TO AT LEAST THREE FEET UP THE BACK OF THE MAJOR SIGN. A MINIMUM OF ONE POST CLIP PER FOOT SHALL BE USED IN ATTACHING EXTRUSIONS TO EACH ANGLE.

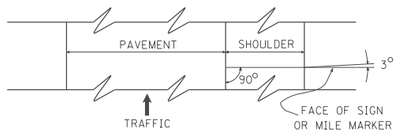
Ⓑ SHORTEST SUPPORTING MEMBER OF BREAK-A-WAY TYPE SIGNS SHALL BE NO LESS THAN 7' FROM THE BOTTOM OF THE SIGN TO THE GROUND.

SHEETING SIGNS



NOTE: SHOULD A SIGN BE LOCATED ON A RAMP AT A POINT WHERE GUARDRAIL IS CALLED FOR OR EXISTING, ALL SIGN SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL AND HORIZONTAL CLEARANCE SHALL BE MEASURED FROM THE GUARDRAIL.

Ⓘ NOT TO EXCEED 7'-6" OR 5'-6"



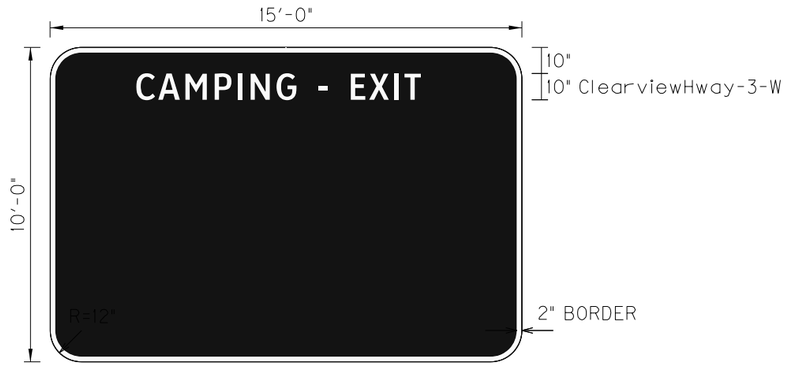
NOT TO SCALE

SIGNING POSITIONING DETAIL SHEET

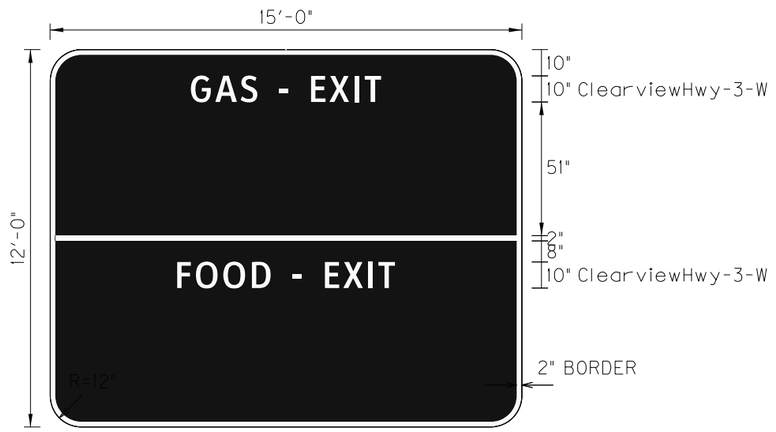
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T006

SAMPLES OF TYPICAL SPECIFIC SERVICE (LOGO) SIGNS

MAINLINE SIGNS







SPECIAL NOTES

ALL SIGNS SHALL BE PANEL TYPE SIGNS AND THE BACKGROUND COLOR SHALL BE BLUE WITH A WHITE REFLECTORIZED BORDER OF THE SPECIFIED WIDTH. THE WORDS TOURIST ATTRACTIONS, GAS, FOOD, LODGING, CAMPING, AND DIRECTIONAL INFORMATION SHALL BE IN WHITE RETROREFLECTORIZED 10 INCH (10") CAPITAL CLEARVIEWHWY 3-W LETTERS AND NUMBERS FOR THE MAINLINE SIGNS, AND 6 INCH (6") CAPITAL CLEARVIEWHWY 3-W LETTERS FOR THE RAMP SIGNS. BORDER AND COPY SHALL BE DEMOUNTABLE.

SIGN PANELS WITH LEGEND SHALL BE FABRICATED WITH THE LEGEND AS SHOWN ON THE PLANS.

SIGN PANEL FACES SHALL BE COMPOSED OF RETROREFLECTIVE SHEETING AS SPECIFIED ON THE SIGNING SPECIFICATIONS SHEETS.

ALL SIGNS FABRICATED AND CONSTRUCTED SHALL BE IN A NEAT WORKMANLIKE MANNER FREE OF CRACKS, TEARS, WRINKLES, BLISTERS, RIDGES, HUMPS, DISCOLORATION, BUCKLES, AND WARPS AND SHALL PRESENT A SMOOTH LIGHT SURFACE OF UNIFORM COLOR.

NOTIFY THE FOLLOWING CONTRACTOR WHEN WORK BEGINS ON SPECIFIC SERVICE (LOGO) SIGNS:

J. R. JARVIS
KENTUCKY LOGOS, INC.
2129 COMMERCIAL DRIVE
SUITE C
FRANKFORT, KY 40601
(800) 469-5646
(859) 421-3599

ALL SIGNS SHALL BE POSITIONED AS SHOWN ON THE SIGNING POSITIONING DETAIL SHEET. ALL BEAMS SHALL BE OF SUFFICIENT LENGTHS TO EXTEND FROM THE TOP OF THE SIGN TO THE REQUIRED BASE EMBEDMENT.

WHERE THERE ARE CRUBS ON RAMPS, THE LATERAL CLEARANCE "X" SHALL BE AT LEAST 6 FEET (6') FROM THE FACE OF THE CURB.

ALL SIGNS ARE TO BE LOCATED AT THE APPROXIMATE STATIONS LISTED, AND THE EXACT LOCATION FOR EACH SIGN SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. SIGNS THAT ARE MOUNTED ON TYPE "A" BEAMS SHALL BE LOCATED BEHIND GUARDRAIL, OTHERWISE TYPE "C" BEAMS SHALL BE UTILIZED.

SIGNS ERECTED ON THE MAINLINE SHOULD HAVE AT LEAST 800 FEET (800') OF SPACING BETWEEN SIGNS. SIGNS ERECTED ON THE RAMPS SHOULD BE SPACED AT LEAST 100 FEET (100') FROM THE EXIT GORE SIGN, FROM THE RAMP TERMINAL AND FROM EACH OTHER.

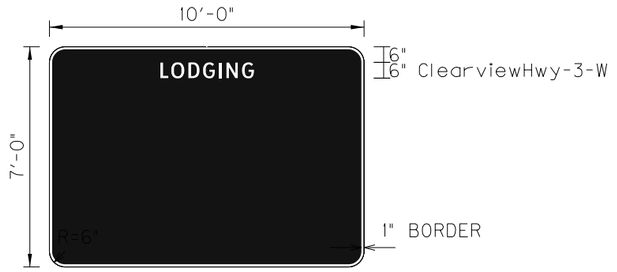
IF ANY SIGN IS LOCATED NEAR A LUMINAIRE OR OTHER POLE, IT SHALL BE INSTALLED IN ADVANCE OF THE POLE SO THAT THE MOTORISTS VIEW OF THE SIGN WILL NOT BE OBSTRUCTED.

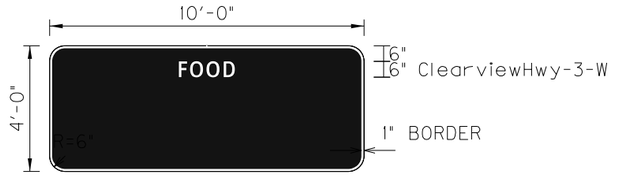
IF ANY EXISTING SIGNS ARE TO BE OUT OF SERVICE FOR MORE THAN ONE WORK SHIFT, THEY SHALL BE TEMPORARILY RELOCATED AT THE SAME FUNCTIONAL LOCATION BY THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE DEPARTMENT.

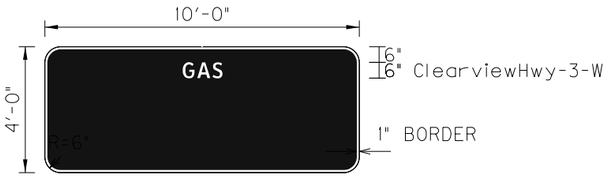
THE EXISTING LOGO PANELS SHALL BE REMOVED AND AFFIXED TO THE NEW PANEL SIGN, WITH THE COST INCIDENTAL TO PANEL SIGNS. INSTALLATION OF PERMANENT SIGNS SHALL BE PAID FOR AS:

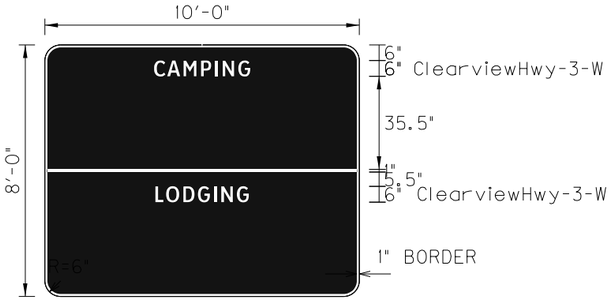
GMSS TYPE "A" (LBS)
OR GMSS TYPE "C" (LBS)
AND PANEL SIGNS (SQ FT)

RAMP SIGNS







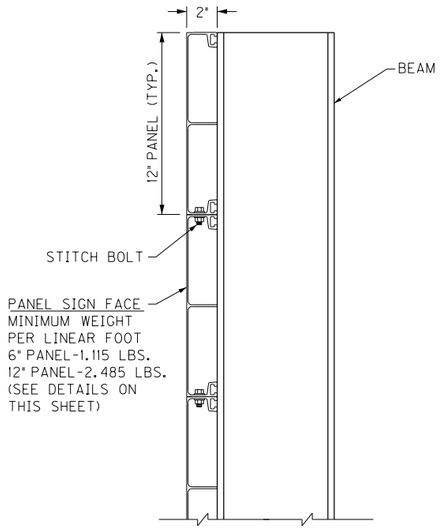


NOT TO SCALE

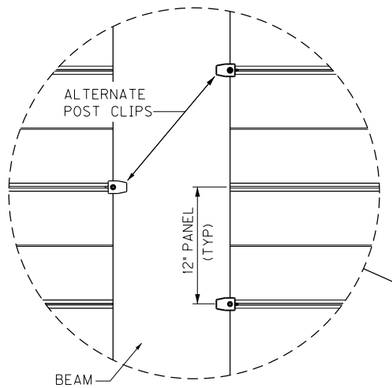
SPECIFIC SERVICE (LOGO) SIGNS

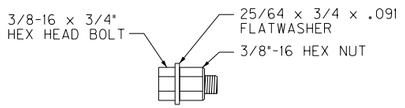
MicroStation v8.11.9.578
E-SHEET NAME:
USER: James-f
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T006 SPECIFIC SERVICE (LOGO).DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T007



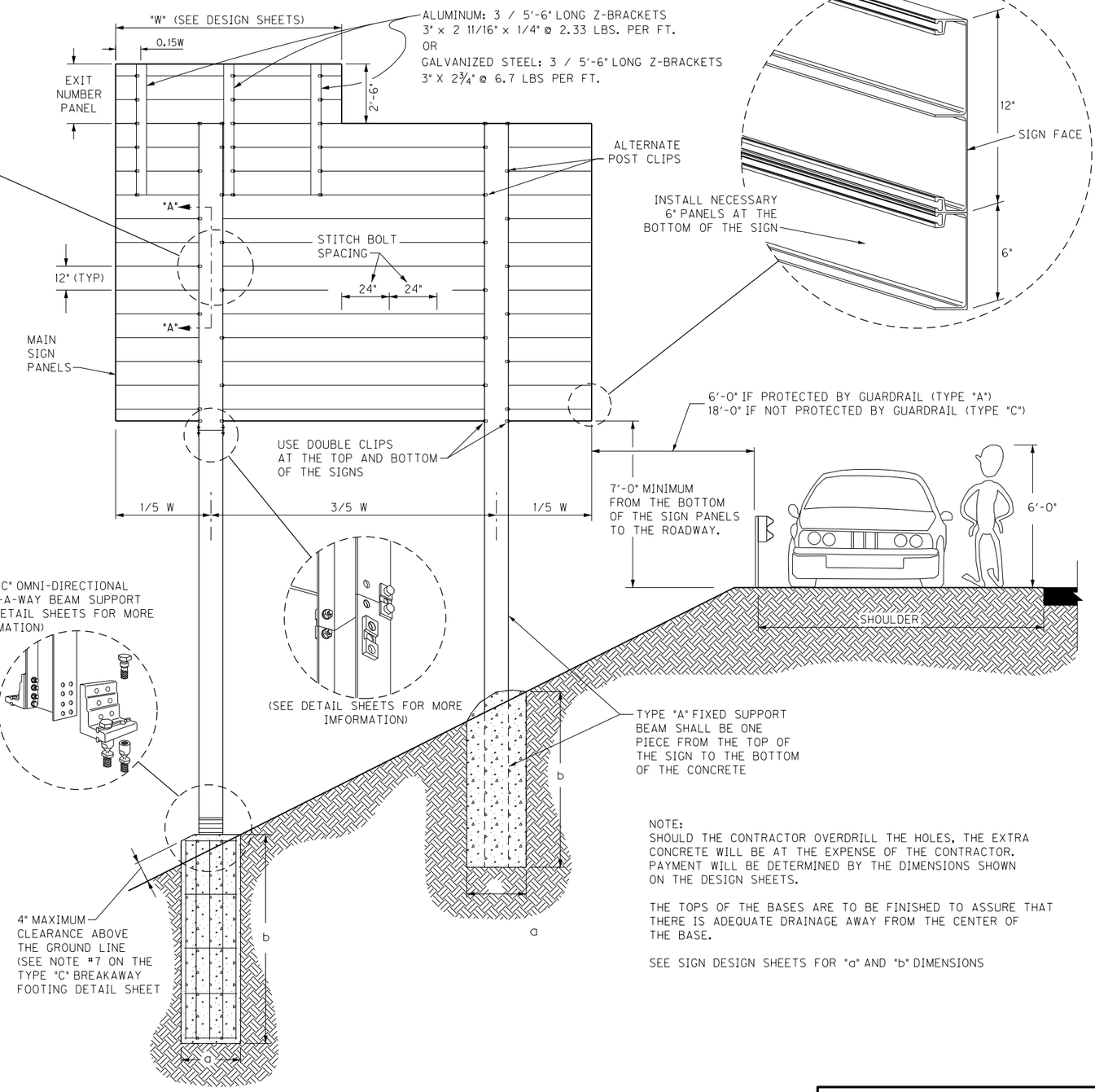
SECTION "A-A"





STITCH BOLT DETAIL

NOTE:
THE COST FOR ATTACHING EXIT NUMBER SIGN SHALL BE INCLUDED IN THE BID ITEM FOR SIGN BASE MATERIAL FOR PANEL SIGNS AND SHALL INCLUDE ALL Z-BRACKETS AND HARDWARE. THE EXIT NUMBER SIGN SHALL BE CENTERED OVER THE LEFT OR RIGHT SIDE OF SIGN AS SHOWN ON THE PLANS.

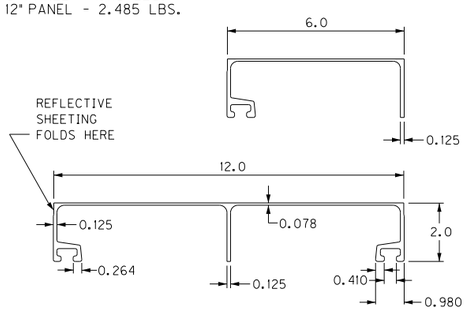


NOTE:
SHOULD THE CONTRACTOR OVERDRILL THE HOLES, THE EXTRA CONCRETE WILL BE AT THE EXPENSE OF THE CONTRACTOR. PAYMENT WILL BE DETERMINED BY THE DIMENSIONS SHOWN ON THE DESIGN SHEETS.

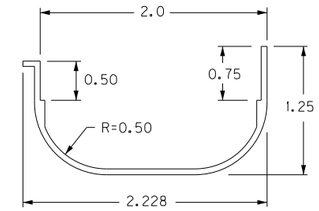
THE TOPS OF THE BASES ARE TO BE FINISHED TO ASSURE THAT THERE IS ADEQUATE DRAINAGE AWAY FROM THE CENTER OF THE BASE.

SEE SIGN DESIGN SHEETS FOR "a" AND "b" DIMENSIONS

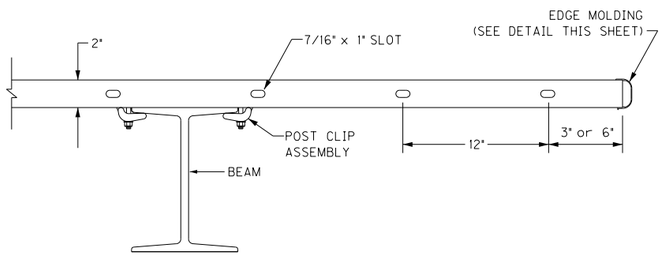
MINIMUM WEIGHT PER LINEAR FOOT
6" PANEL - 1.115 LBS.
12" PANEL - 2.485 LBS.



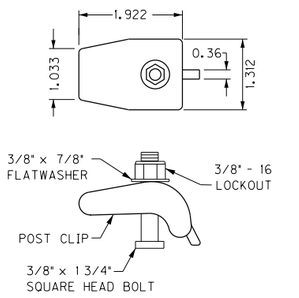
ALUMINUM PANEL DETAILS



EDGE MOLDING DETAIL



TOP VIEW OF PANEL SIGN



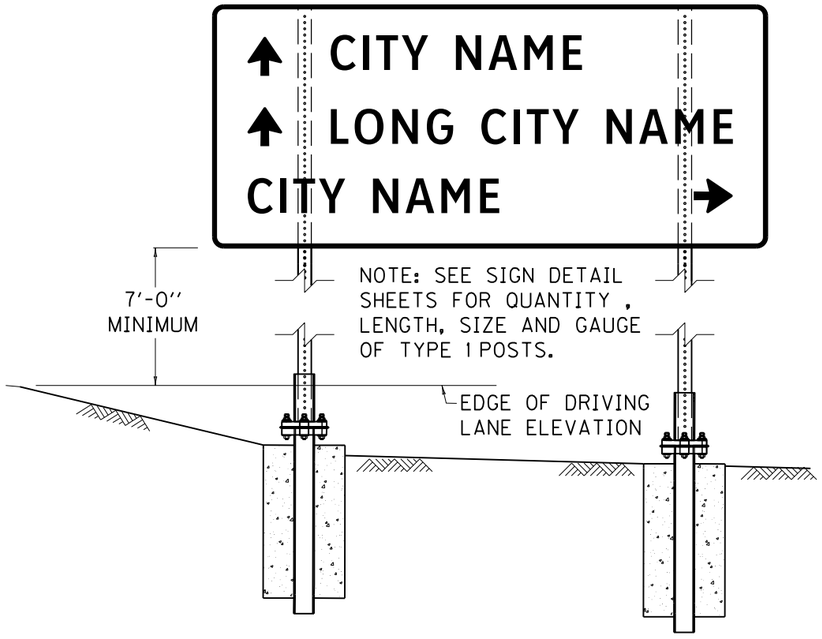
POST CLIP ASSEMBLY

NOT TO SCALE

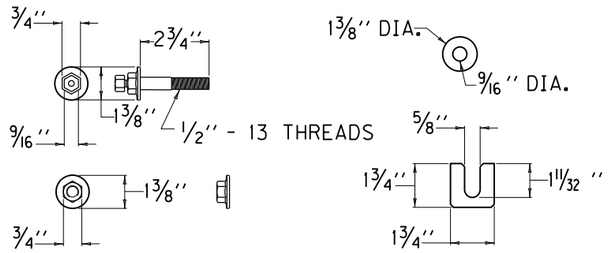
PANEL SIGN DETAILS SHEET

MicroStation v8.11.9.578
E-SHEET NAME:
USER: James-f
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T007 PANEL SIGNS DETAIL SHEET.DGN

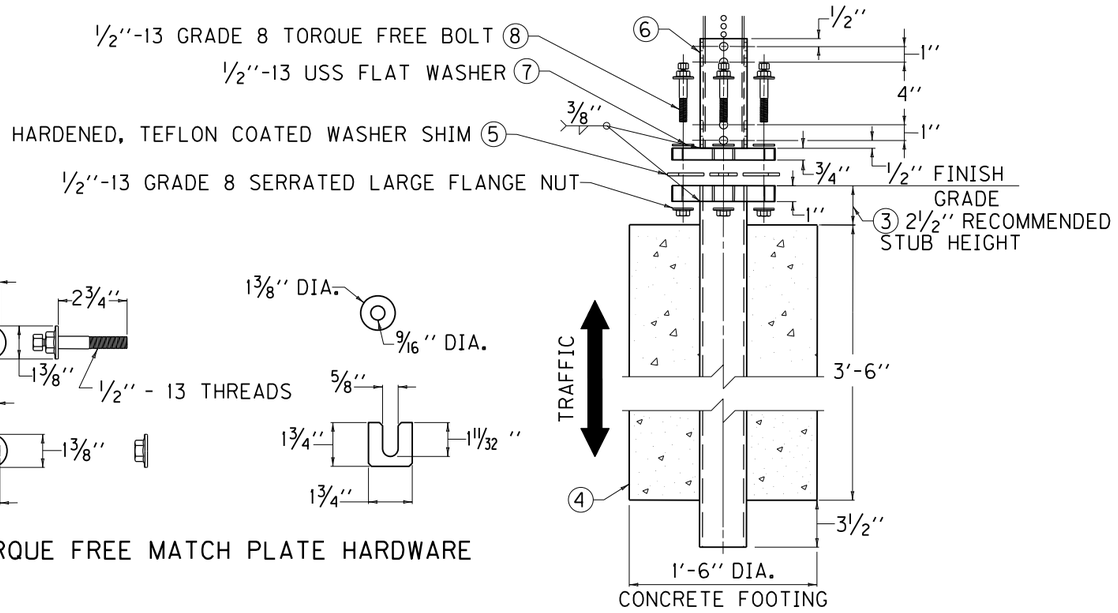
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T008



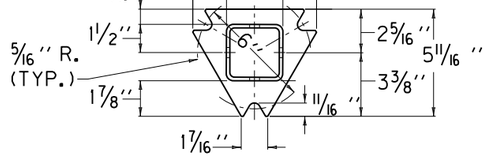
TYPICAL SHEETING SIGN BREAKAWAY SUPPORT INSTALLATION

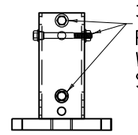


TORQUE FREE MATCH PLATE HARDWARE



TYPE "D" SUPPORT OMNI-DIRECTIONAL BREAK-A-WAY FOR TYPE 1 POSTS

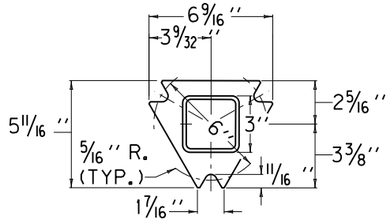




MATERIALS: TUBE RECEIVER - 3" x 3" x 7 GA. ASTM A500
ASTM A500 GRADE B TUBE PLATE - ASTM A572 GRADE 50

TOP POST RECEIVER / FOR 2 1/2" SQUARE POST

2 1/4" x 12 GA. MAYBE INSERTED INTO
2 1/2" X 12 GA. FOR ADDITIONAL WINDLOAD



BOTTOM BASE CONCRETE STUB (2)

MATERIALS : TUBE - 3"X 3" X 7 GA. ASTM A500
GRADE B TUBE PLATE - ASTM A572 GRADE 50

NOTES

1. AUGER AN 18" DIA. HOLE BY 42" DEEP AT THE PREDETERMINED LOCATION.
2. TAP THE BOTTOM OF THE 48" BASE STUB INTO THE SOIL IN THE BOTTOM OF THE HOLE WITH THE BASE PLUMB AND SQUARED UP WITH THE ROADWAY , MAKING SURE THE POINT OF THE PLATE IS FACING ONCOMING TRAFFIC. (THIS SERVES TO STABILIZE THE BASE WHILE POURING THE CONCRETE AS WELL AS TO ALLOW FOR WATER DRAINAGE BELOW THE CONCRETE FOOTING.)
3. DEPTH OF IMBEDMENT TO LEAVE 2 1/2" FROM THE GRADE TO THE TOP OF THE BASE.
4. ALLOW CONCRETE TO CURE AT LEAST 5 DAYS BEFORE ERECTING SIGN.
5. PLACE 1 EACH TEFLON COATED WASHER SHIM ON EACH OF THE 3 NOTCHED POINTS, WITH THE OPEN SIDE FACING TOWARDS THE CENTER OF THE TRIANGLE.
6. PLACE TOP POST RECIEVER SO THAT THE SIGN POST IS IN CORRECT POSITION FOR SIGN VISIBILITY, ON TO THE BASE AND WASHER SHIMS.
7. PLACE 1 EACH 1/2" WASHER ONTO TORQUE FREE BOLT AND PLACE IN EACH NOTCHED POINT OF THE TRIANGLE. PUSH EACH TEFLON COATED WASHER SHIM AGAINST THE SHANK OF EACH BOLT AND FINGER TIGHTEN 1/2" FLANGED LOCK NUT.
8. FULLY TIGHTEN , THEN LOOSEN , ALL THREE TORQUE FREE BOLTS USING THE LARGER 3/4" HEX HEAD. COMPLETE BY TIGHTENING EACH BOLT USING THE SMALLER 9/16" HEX HEAD UNTIL IT TWIST OFF.

   NOTE : SECONDARY HEAD WILL TWIST OFF AT DESIRED TORQUE LEVEL TO MEET FEDERAL COMPLIANCE.
9. INSERT SIGN SUPPORT INTO THE TUBULAR PORTION OF THE TOP POST RECIEVER AND SECURE WITH 3 EACH 3/8"- 16 x 3 1/2" GRADE 8 FLANGED SHOULDER BOLTS AND FLANGED NUTS.

   NOTE: WHERE HIGHER WINDLOAD IS DESIRED, INSERT THE NEXT SIZE SMALLER SQUARE POST INSIDE BOTTOM OF MAIN UPRIGHT POST.

   NOTE: ON MULTI-LEG INSTALLATIONS, BE SURE THAT ALL ANCHORS ARE SQUARED AND LINED UP WITH EACH OTHER.
10. TYPE D BREAKAWAY SIGN SUPPORT SYSTEMS FOR THE TYPE I POSTS SHALL BE SELECTED FROM THE KENTUCKY DEPARTMENT OF HIGHWAYS APPROVED MATERIALS LIST. OR AN APPROVED EQUAL. ACCEPTABLE ALTERNATES SHALL BE APPROVED BY THE DIVISION OF HIGHWAY DESIGN AND FHWA , PRIOR TO INSTALLATION.

KENTUCKY DEPARTMENT OF HIGHWAYS

TYPE D BREAKAWAY SIGN SUPPORT

APPROVED _____ TRAFFIC DIVISION OF DESIGN 04-15-08 DATE

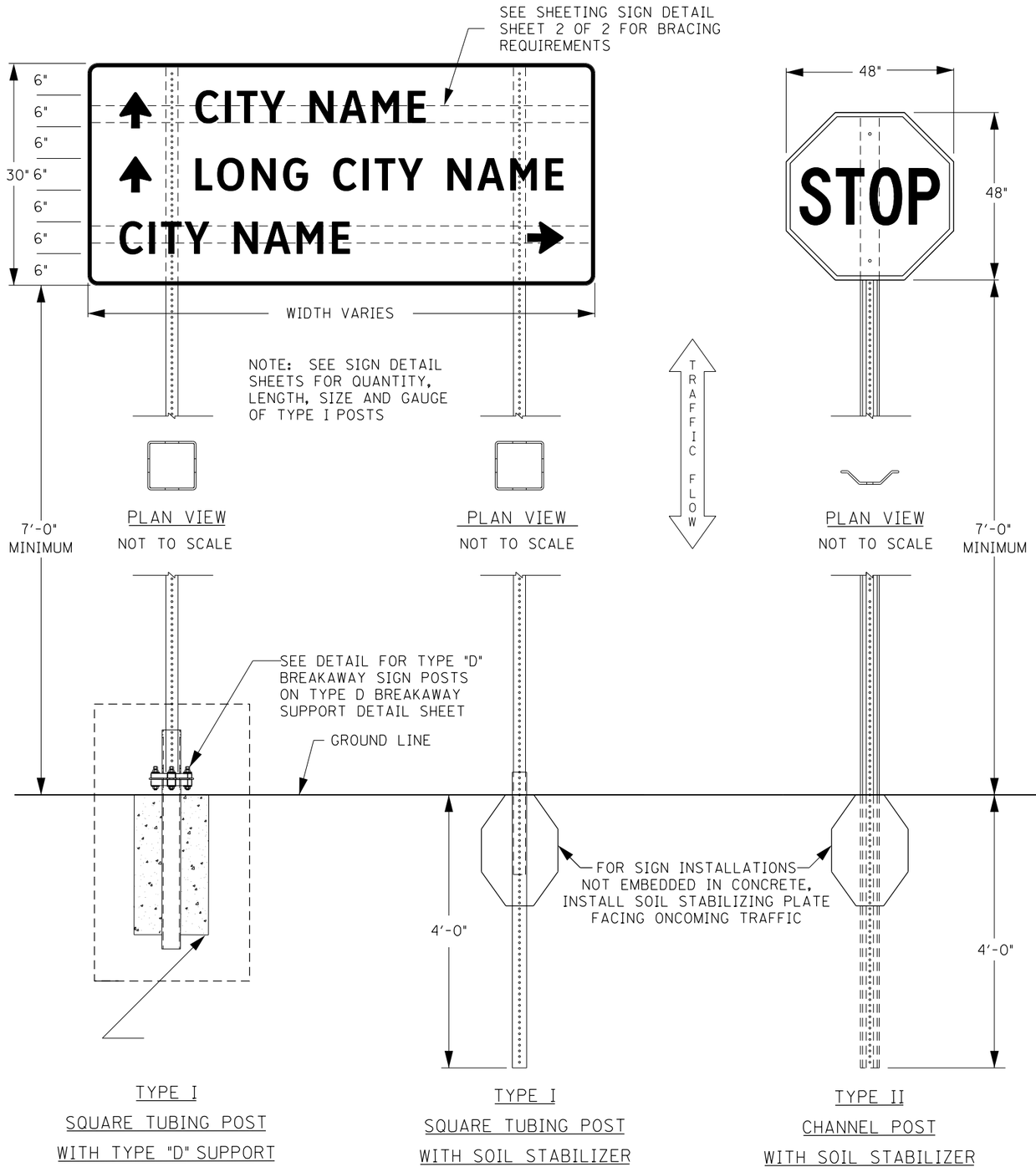
005

SCALE: 1"=N/A

TYPE D BREAKAWAY SUPPORT DETAIL SHEET

MicroStation v8.11.9.578
E-SHEET NAME:
USER: James-f
DATE PLOTTED: October 30, 2014
FILE NAME: C:\PW_WORKDIR\ANDREW-BVDMS01404\T008 TYPE D BREAKAWAY SUPPORT DETAIL.DGN

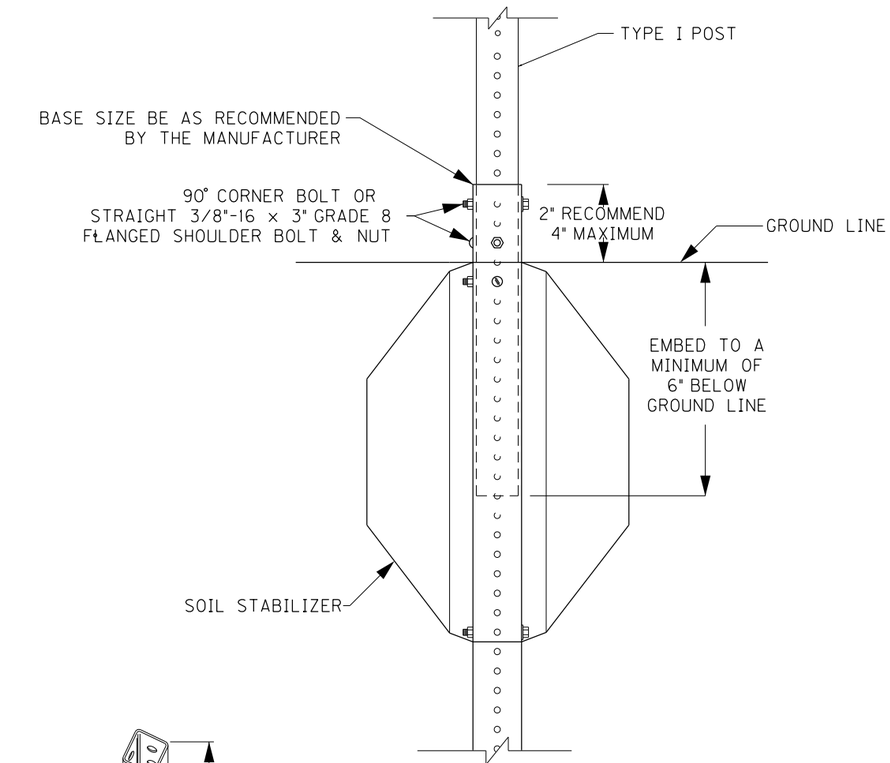
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T009



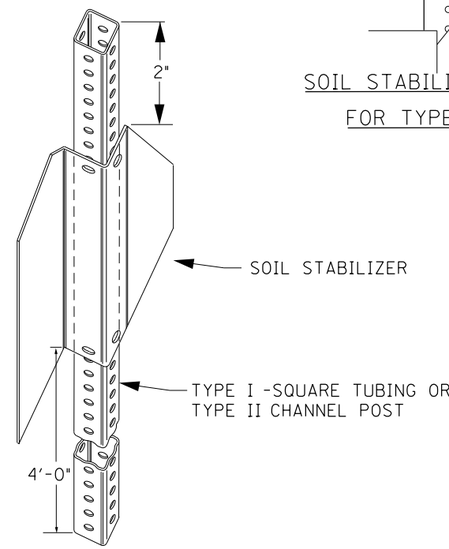
TYPE I
SQUARE TUBING POST
WITH TYPE "D" SUPPORT

TYPE I
SQUARE TUBING POST
WITH SOIL STABILIZER

TYPE II
CHANNEL POST
WITH SOIL STABILIZER



SOIL STABILIZER DETAIL
FOR TYPE I POST



SOIL STABILIZER DETAIL

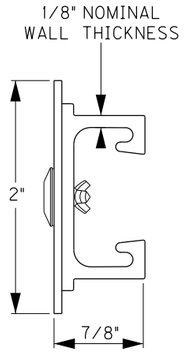
NOT TO SCALE

SHEETING SIGN DETAIL
SHEET 1 OF 2

MicroStation v8.11.9.578 | E-SHEET NAME: | USER: James-f DATE PLOTTED: October 30, 2014 | FILE NAME: C:\PW_WORKDIR\ANDREW-BVDMS01404\T009 SHEETING SIGN DETAIL SHEET 1 OF 2.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	TOIO

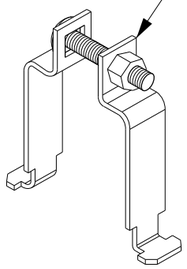
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\TOIO SHEETING SIGN DETAIL SHEET 2 OF 2.DGN
USER: James-f
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.578



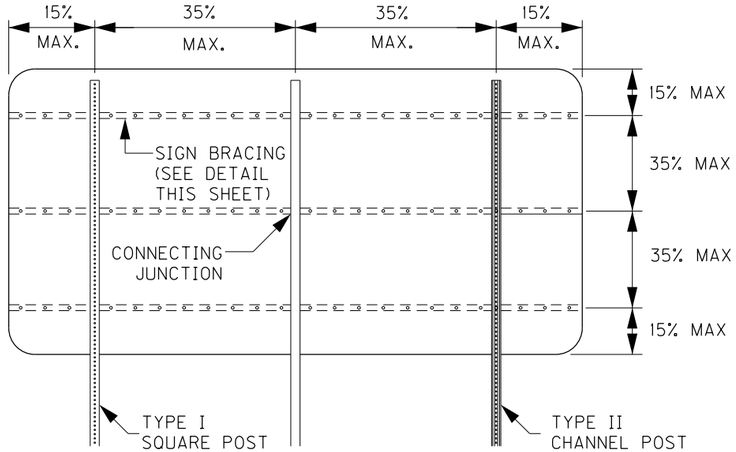
SIGN BRACE

SQUARE POST CLAMP:
11 GAUGE, TYPE 304, #2B FINISHED STAINLESS STEEL
WITH STAINLESS STEEL CARRIAGE BOLT

CLAMPS CAN BE TWIST LOCKED INTO PLACE
WITHOUT SLIDING THE CLAMPS FROM AN OPEN
END OF THE CHANNEL BRACE



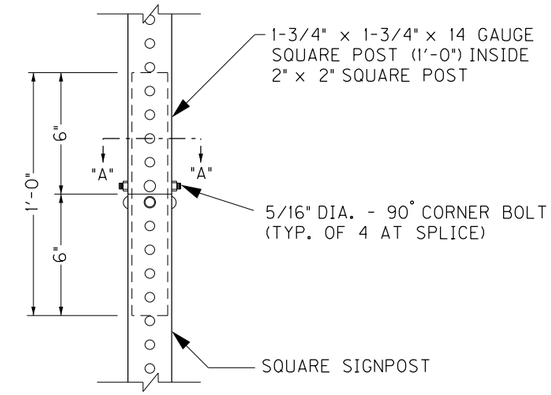
SQUARE POST CLAMP



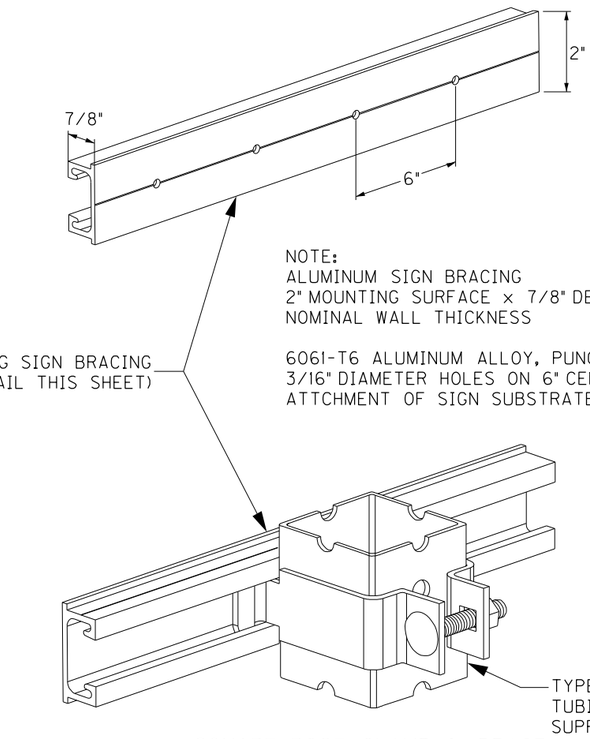
3 POST - BRACING DIAGRAM

NOTE:
1. MAXIMUM AREA
PER CONNECTING
JUNCTION = 16 SQ. FT.

2. BRACING SHOULD NOT BE
SPLICED WITHIN 6" OF A BRACE
TO POST JUNCTION.



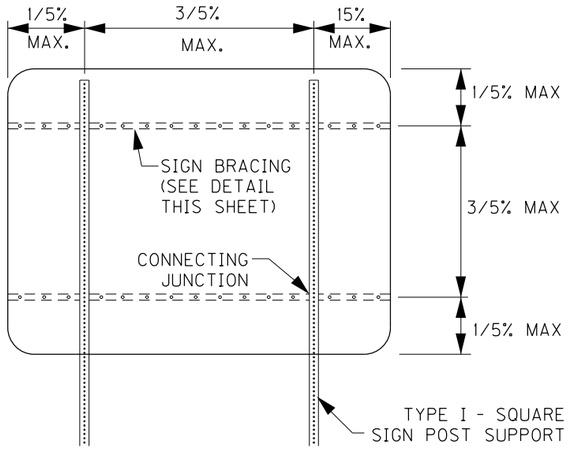
SQUARE SIGNPOST
SPLICE DETAIL



NOTE:
ALUMINUM SIGN BRACING
2" MOUNTING SURFACE x 7/8" DEPTH x 1/8"
NOMINAL WALL THICKNESS

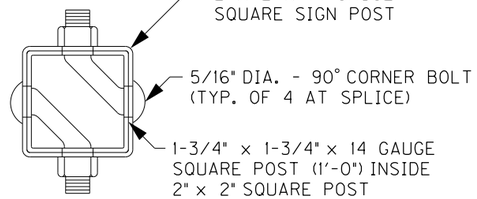
6061-T6 ALUMINUM ALLOY, PUNCHED WITH
3/16" DIAMETER HOLES ON 6" CENTERS FOR
ATTCHMENT OF SIGN SUBSTRATE USING RIVETS

SQUARE POST CLAMP & BRACE

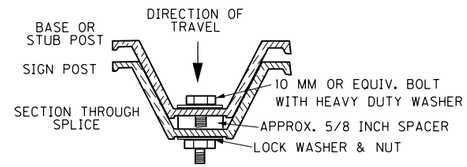


2 POST - BRACING DIAGRAM

SECTION "A - A"



CHANNEL POSTS SPLICED



GENERAL INSTALLATION INSTRUCTIONS OF U CHANNEL POSTS
WITH BREAKAWAY FEATURE

THE BASE OR STUB POST SHOULD BE IN FRONT FACING TRAFFIC.
THE SIGN AND THE STUB POSTS SHOULD HAVE AN 8 INCH OVERLAP.
DETERMINE THE PROPER SIZE SIGN POST AS PER THE SIGNING PLANS.
MATCH THE SIGN POST TO THE STUB POST AS IN THE TYPE AND WEIGHT OF THE
POST (I.E. 2 LB, 3 LB, 4 LB, ETC.)
DRIVE THE STUB INTO THE GROUND UTILIZING A DRIVE CAP. THE STUB HEIGHT IS TO
BE 4 INCH MAXIMUM FROM EXISTING GROUND.
REAM OUT THE SPLICE HOLES UNTIL A 10 MM OR EQUIV. BOLT CAN BE INSERTED THROUGH
THE POSTS. THE TOP BOLT SHOULD BE 1 INCH MINIMUM FROM THE TOP OF STUB.
COAT THE SPLICE HOLES AND THE BOLTS WITH ZINC RICH PAINT PASTE. ASSEMBLE THE
SIGN POST TO THE STUB WITH THE PROPER HARDWARE AS PER THE CURRENT SPECIFICATIONS.
THE TURN OF NUT METHOD SHALL BE UTILIZED IN TIGHTENING THE BOLTS AND NUTS.
(THE NUT IS BROUGHT TO A SNUB TIGHT CONDITION TO INSURE THAT ALL PARTS ARE BROUGHT
TOGETHER INTO FULL CONTACT WITH EACH OTHER. THEN THE NUT IS TIGHTENED A HALF AN
ADDITIONAL TURN.)
ANY SINGLE U CHANNEL POSTS MAY BE DIRECT DRIVEN.

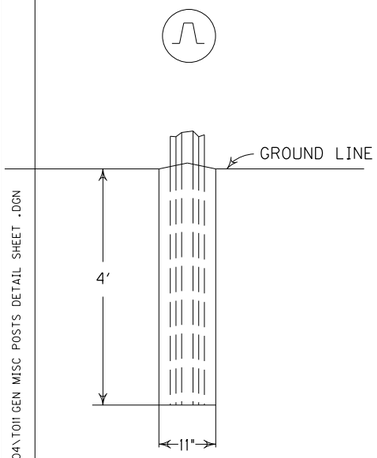
NOT TO SCALE

SHEETING SIGN DETAIL
SHEET 2 OF 2

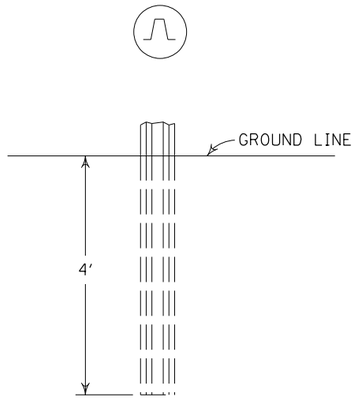
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T011

CHANNEL POST DETAILS

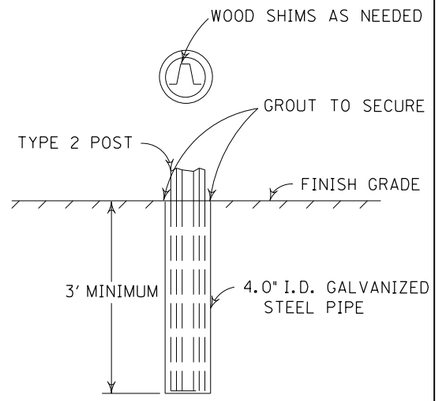
TYPE "B" CONCRETE BASE



TYPE "C" DRIVEN BASE



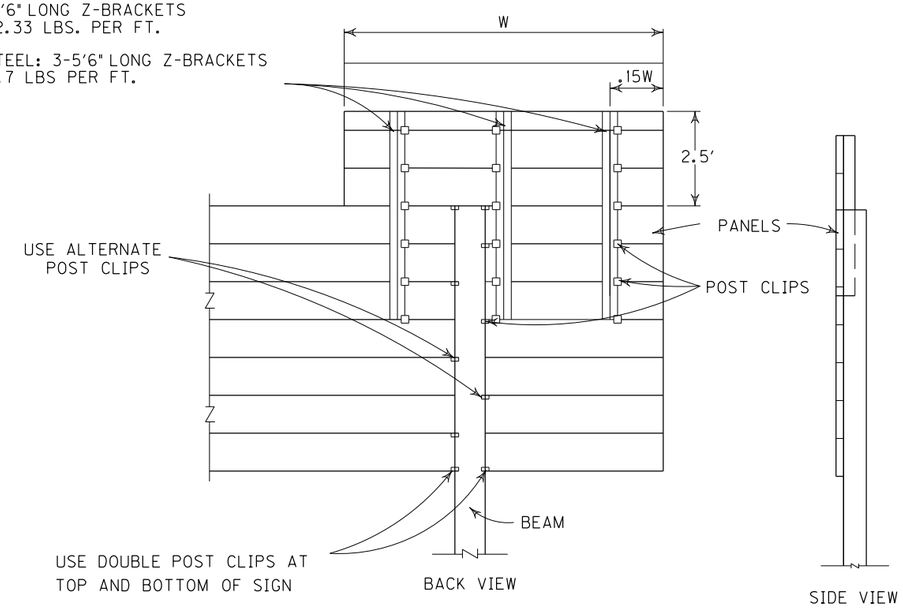
TYPE "D" PIPE BASE



THE COST FOR 4.0" I.D. GALVANIZED STEEL PIPE FOR TYPE "D" BASE AND THE WORK FOR THE INSTALLATION SHALL BE INCLUDED IN THE BID ITEM FOR STEEL POST TYPE 2.

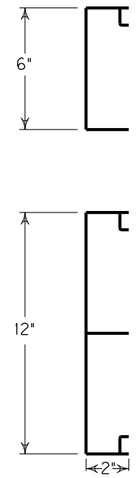
DETAIL FOR EXIT NUMBER SIGN ATTACHMENT AND TYPICAL POST CLIP ARRANGEMENT

ALUMINUM: 3-5'6" LONG Z-BRACKETS
3" X 2 11/16 " @ 2.33 LBS. PER FT.
OR
GALVANIZED STEEL: 3-5'6" LONG Z-BRACKETS
3" X 2 3/4" @ 6.7 LBS PER FT.



NOTE: THE COST FOR ATTACHING EXIT NUMBER SIGN SHALL BE INCLUDED IN THE BID ITEM FOR SIGN BASE MATERIAL FOR PANEL SIGNS AND SHALL INCLUDE ALL Z-BRACKETS AND HARDWARE. THE EXIT NUMBER SIGN SHALL BE CENTERED OVER THE LEFT OR RIGHT SIDE OF SIGN AS SHOWN ON THE PLANS.

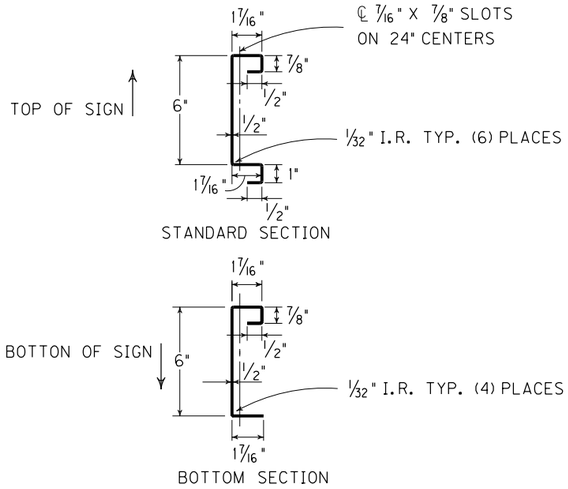
PANEL DETAILS



MINIMUM WEIGHT PER LINEAR FOOT

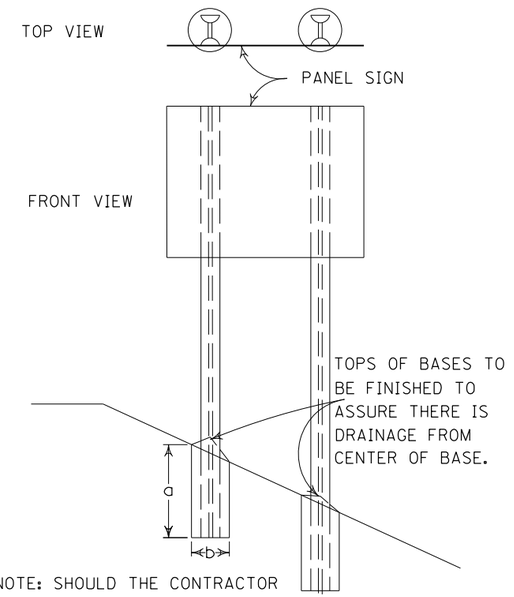
6" PANEL - 1.115 LBS.
12" PANEL - 2.485 LBS.

TYPICAL SECTIONS
ALUMINUM SIGN PANEL EXTRUSIONS

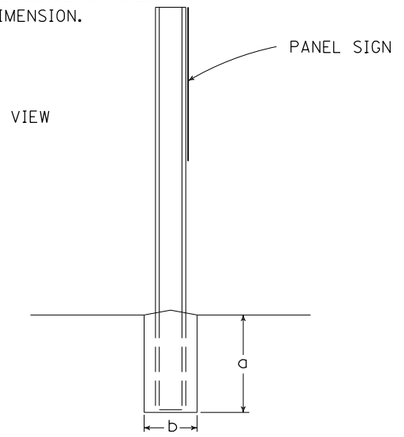


TYPICAL SECTIONS
STEEL SIGN PANEL EXTRUSIONS

TYPICAL BEAM WITH TYPE "A" CONCRETE BASE DETAIL



NOTE: SHOULD THE CONTRACTOR OVERDRILL THE HOLE, EXTRA CONCRETE WILL BE AT THE CONTRACTOR'S EXPENSE. PAYMENT WILL BE DETERMINED BY THE "a" DIMENSION.



NOT TO SCALE

SIGNING PLANS
SIGNING MISCELLANEOUS DETAIL SHEET

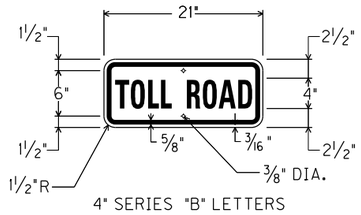
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T011 GEN MISC POSTS DETAIL SHEET .DGN
USER: james-f
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T012

S-1

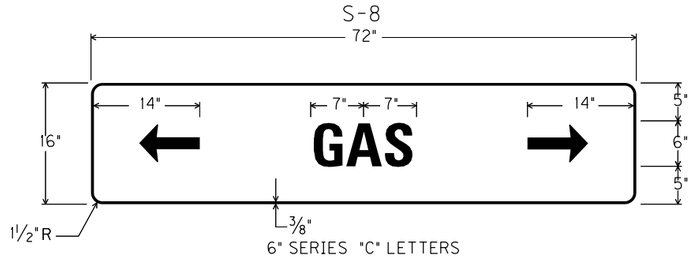


S-2



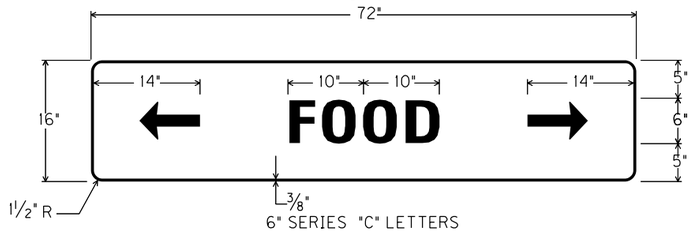
4" SERIES "B" LETTERS

S-8



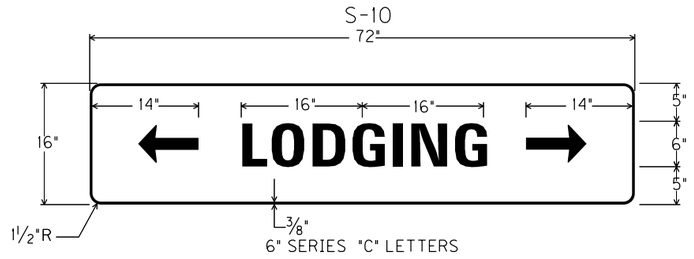
6" SERIES "C" LETTERS

S-9



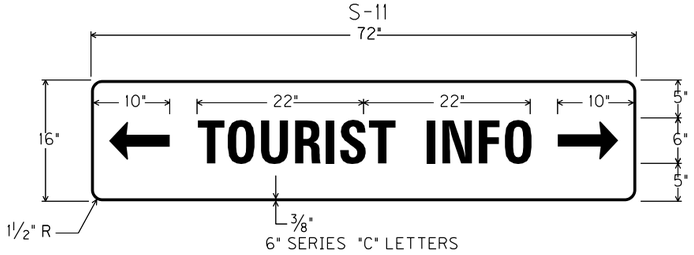
6" SERIES "C" LETTERS

S-10



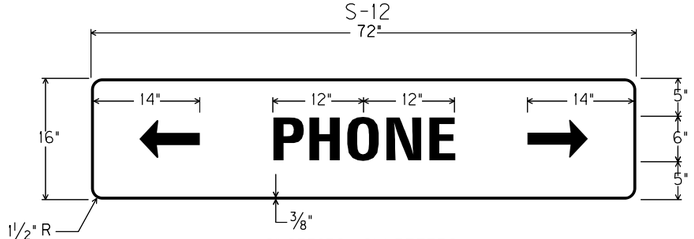
6" SERIES "C" LETTERS

S-11



6" SERIES "C" LETTERS

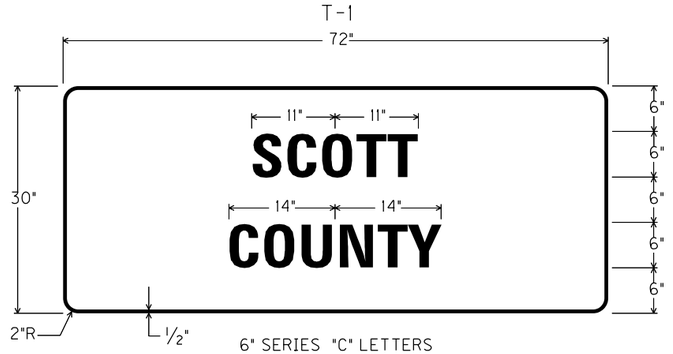
S-12



6" SERIES "C" LETTERS

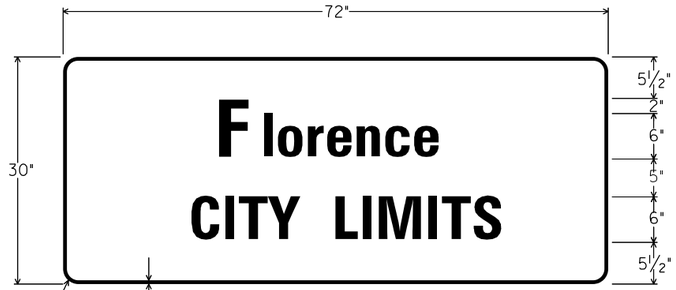
NOTE: ARROWS ARE OF REMOVABLE COPY (8 7/16"X9 9/16")

T-1

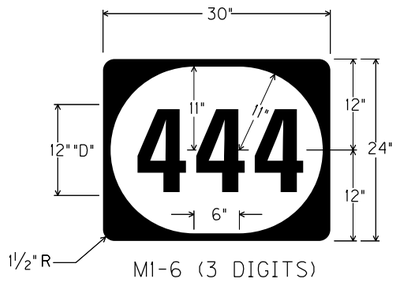


6" SERIES "C" LETTERS

T-2



8" SERIES "E" UPPER CASE LETTERS
6" SERIES "E" LOWER CASE LETTERS
6" SERIES "E" CAPS



M1-6 (3 DIGITS)

NOTE: FOR 4 DIGIT SIGN USE 12" SERIES "B"

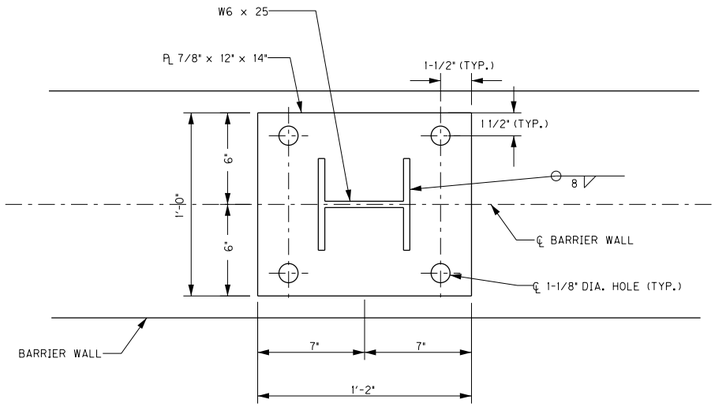
NOT TO SCALE

SIGNING PLANS

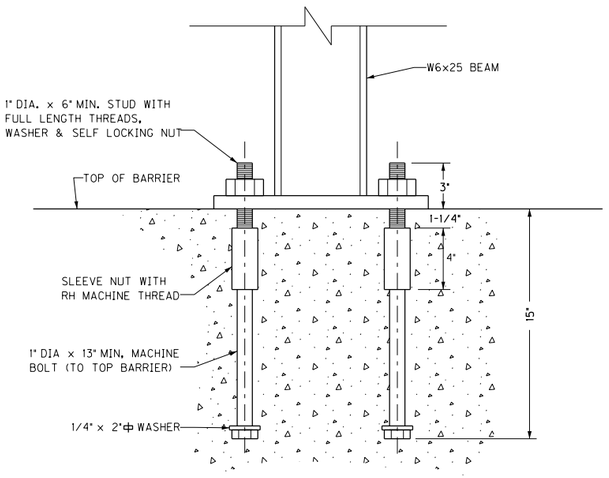
TYPICAL STANDARD SIGNS

FILE NAME: C:\PW_WORKDIR\ANDREW-PC\DMS01404\T012 GEN TYP STD SIGNS DETAIL SHEET.DGN
USER: James-f
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.578

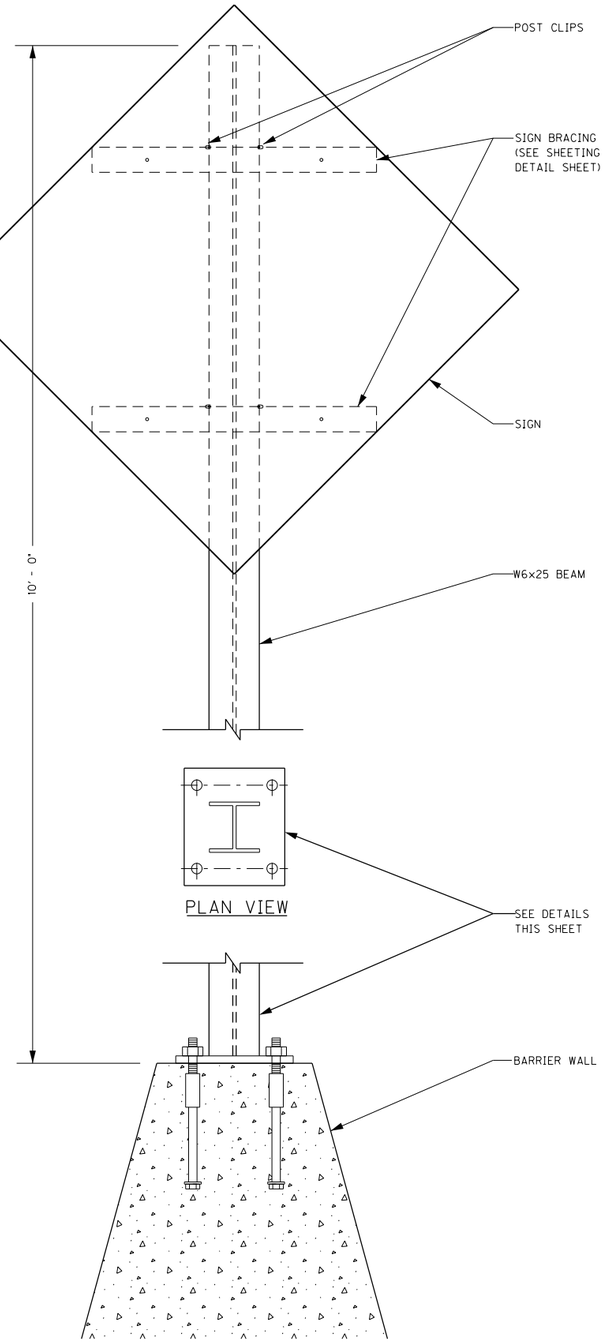
COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T013



PLAN VIEW DETAIL



ANCHOR DETAIL



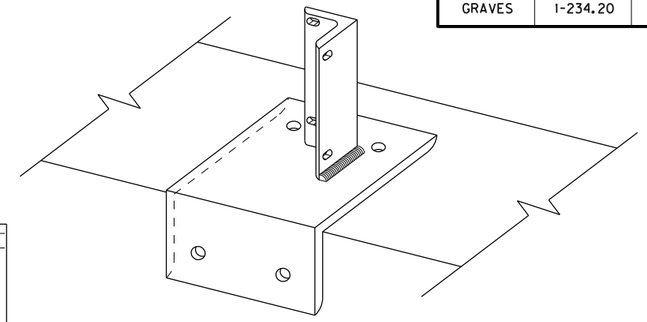
BARRIER WALL POST

GENERAL NOTES:
POST CLIPS, BRACKETS AND SIGN TO BE CAPABLE OF SUSTAINING 20 LBS. PER SQUARE FOOT OF SIGN AREA.

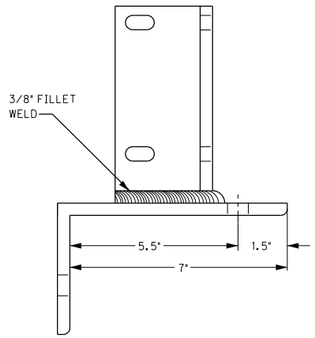
THE COST FOR MAKING WALL POST AND ANY HARDWARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE INCLUDED IN THE COST OF BARRIER WALL POST.

ANCHOR ALTERNATIVES:
DRILL 1-3/8" O X 14" HOLE FOR #8 X 16" REINFORCING BAR WITH 1" X 4" MACHINE THREADS. BOND ANCHORS IN HOLE WITH POLYESTER RESIN.

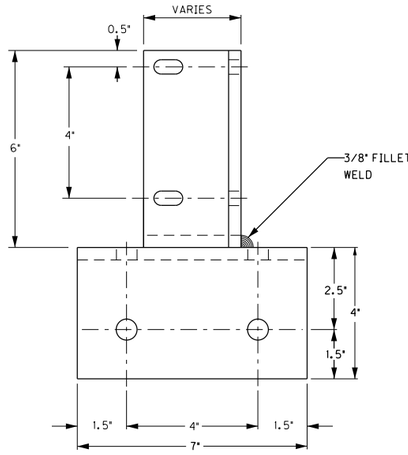
MATERIAL SPECIFICATIONS:
ALL STEEL TO BE FROM ASTM A572. ALL HOLES SHALL BE DRILLED. PLATE CUTS SHALL BE SAW CUT AND ALL EDGES GROUND SMOOTH. BOLT MATERIALS SHALL BE ASTM A307 OR EQUIVALENT AND BE GALVANIZED. GALVANIZE AFTER FABRICATION PER AST, A123.



ISOMETRIC VIEW



RIGHT SIDE



FRONT

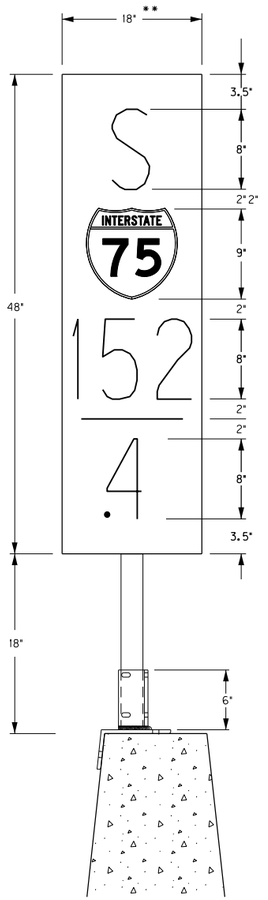
NOTES:
ALL ROUND HOLES 5/8" O AND ALL OBLONG JOLES ARE 7/16" X 7/8".

ALL HARDWARE SHALL BE GALVANIZED STEEL OR STAINLESS STEEL AS SPECIFIED.

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

ATTACH TO BARRIER WALL USING 1/2" X 13 TPI GRADE 8 BOLTS WITH CONCRETE ANCHOR.

MATERIALS:
ASTM A36 STRUCTURAL ANGLE, 3/8" THICK WITH 3/8" FILLET WELD.



BARRIER MOUNTING BRACKET
WITH REFERENCE MARKER

** 14" FOR 1 OR 2 DIGITS IN MILEPOINT.
18" FOR 3 DIGITS IN MILEPOINT.

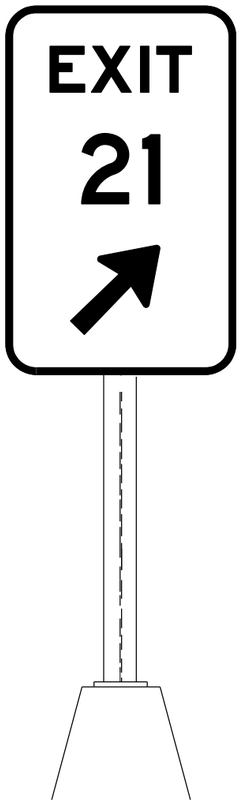
NOT TO SCALE

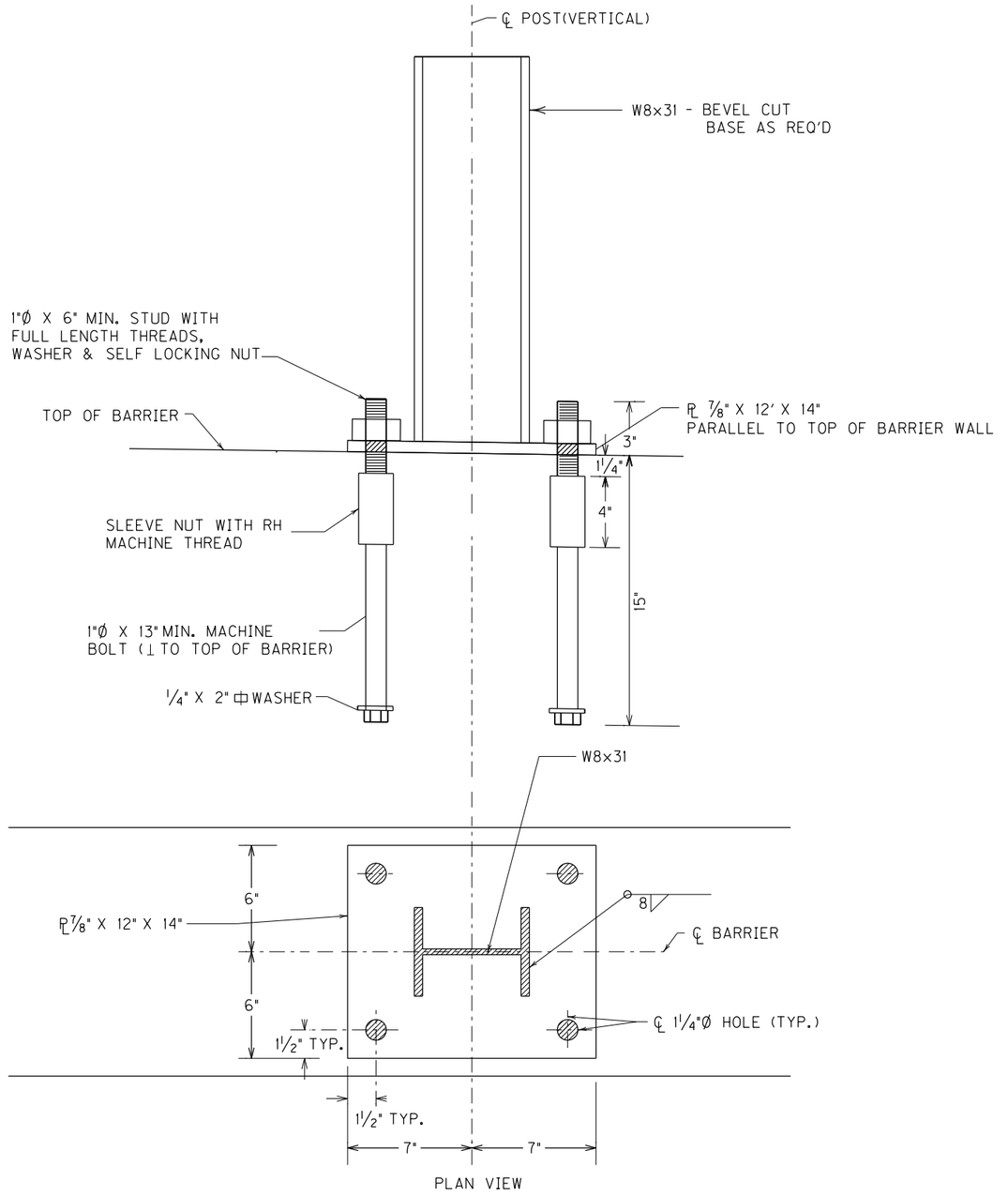
BARRIER WALL MOUNTING DETAILS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS0140A\T013 FINAL - BARRIER WALL MOUNTING DETAIL SHEET.DGN
USER: James-f
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T014

THE COST FOR MAKING WALL POST AND ANY HARDWARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE INCLUDED IN THE COST OF BARRIER WALL POST.





BARRIER WALL POST

ANCHOR ALTERNATIVES

DRILL 1 3/8"Ø X 14" HOLE FOR #29 X 16" REINFORCING BAR WITH 1" X 4" MACHINE THREADS. BOND ANCHORS IN HOLE WITH POLYESTER RESIN.

MATERIAL SPECIFICATIONS

ALL STEEL TO BE FROM ASTM A572. GALVANIZE AFTER FABRICATION PER ASTM A123. ALL HOLES SHALL BE DRILLED. PLATE CUTS SHALL BE SAW CUT AND ALL EDGES GROUND SMOOTH. BOLT MATERIALS SHALL BE ASTM A307 OR EQUIVALENT AND BE GALVANIZED.

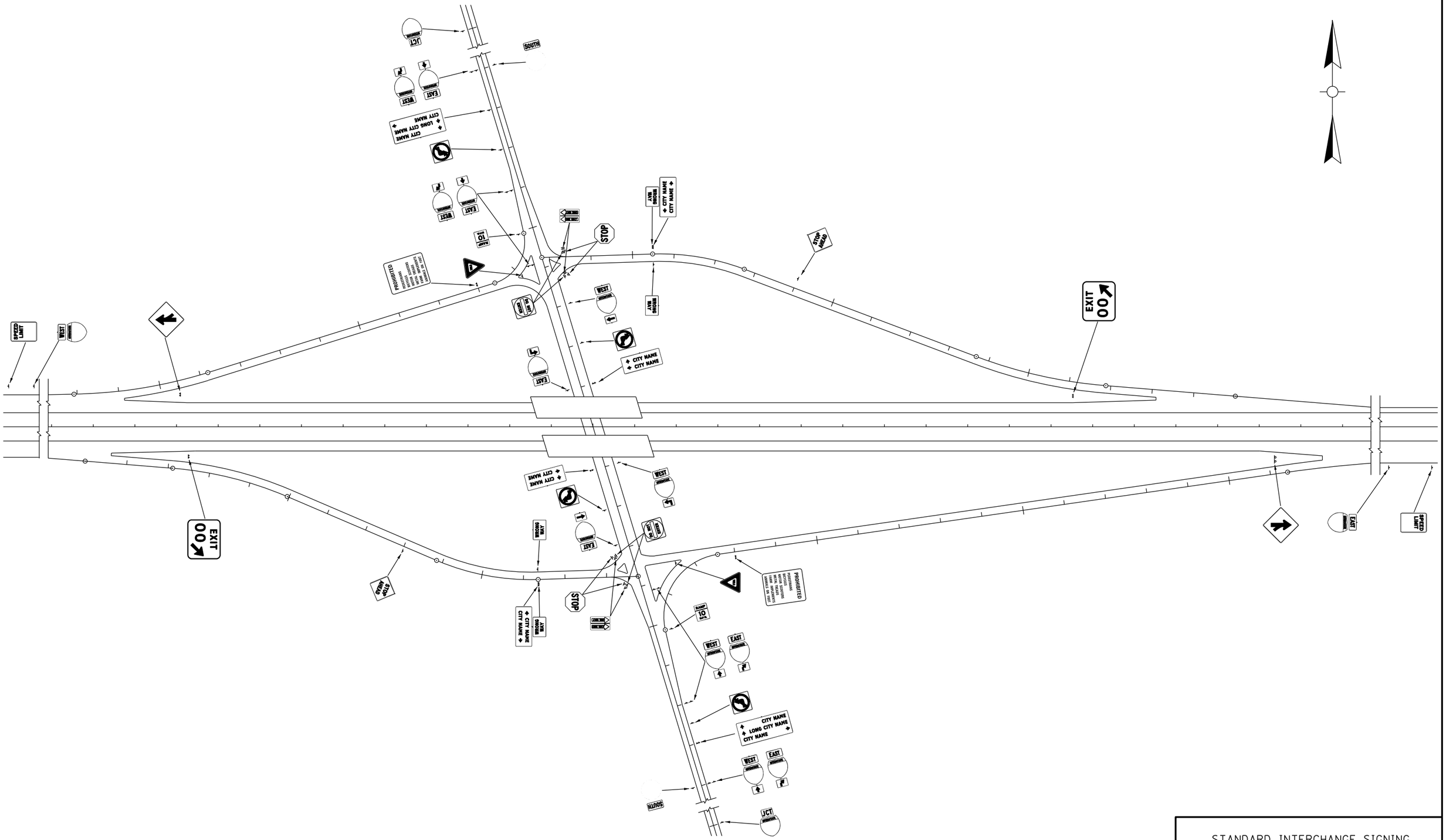
BEAM ATTACHMENT

SEE SIGNING MISCELLANEOUS DETAIL SHEET FOR THE POST CLIP ARRANGEMENT.

DETAIL FOR BARRIER WALL POST

MicroStation v8.11.9.578 | E-SHEET NAME: | USER: James-f DATE PLOTTED: October 30, 2014 | FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS0140A\T014 MEDIAN BARRIER WALL POST DETAIL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T015

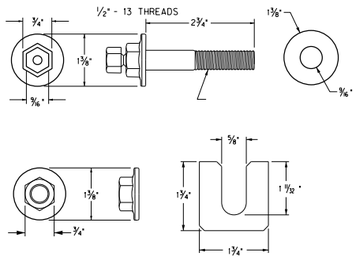


NOT TO SCALE

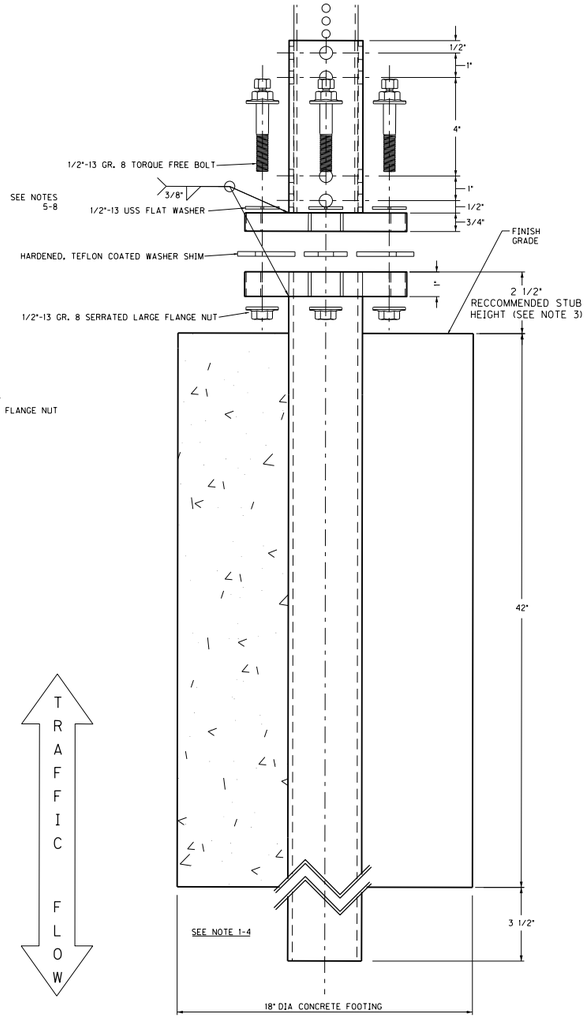
STANDARD INTERCHANGE SIGNING

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS0140A\T015 STD INTERCHANGE SIGNING.DGN
USER: James-f
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T016

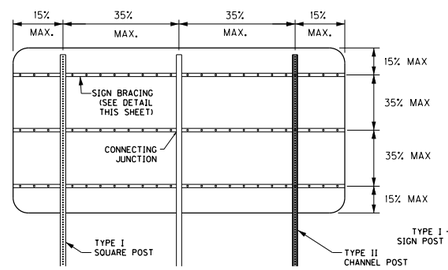


TORQUE FREE MATCH PLATE HARDWARE

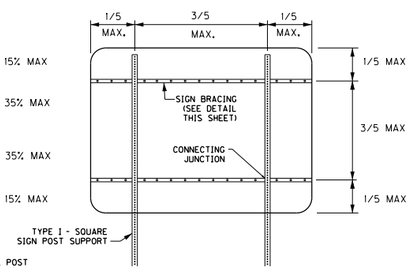


TYPE "D" SUPPORT

OMNI-DIRECTIONAL BREAK-A-WAY FOR TYPE I POSTS



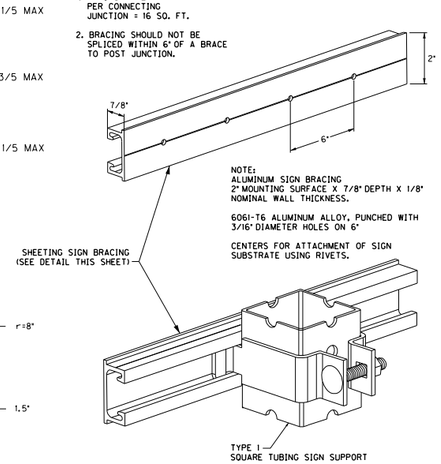
3 POST - BRACING DIAGRAM



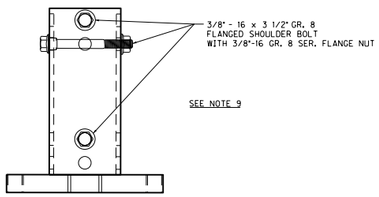
2 POST - BRACING DIAGRAM

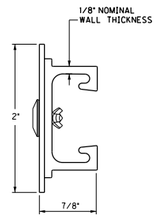
NOTE:

1. MAXIMUN AREA PER CONNECTING JUNCTION = 16 SQ. FT.
2. BRACING SHOULD NOT BE SPLICED WITHIN 6" OF A BRACE TO POST JUNCTION.

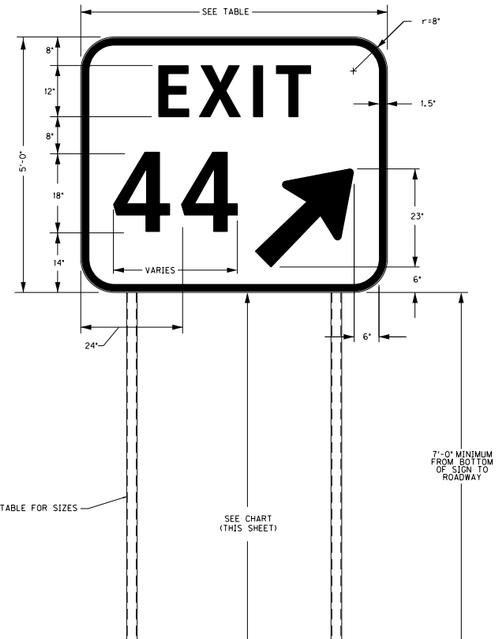


SQUARE POST CLAMP & BRACE

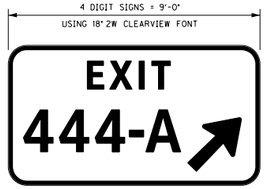


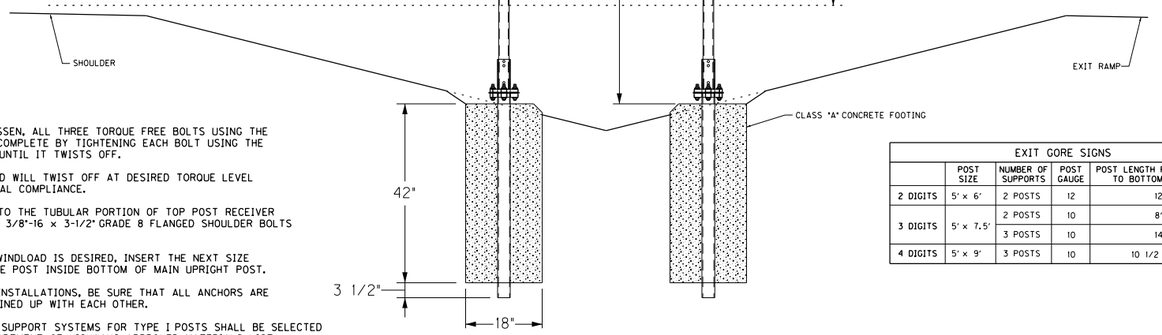


SIGN BRACE







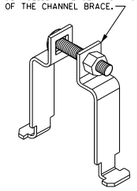


STANDARD EXIT GORE SIGN INSTALLATION

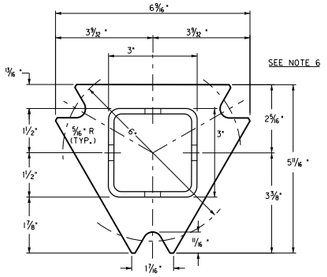
EXIT GORE SIGNS				
	POST SIZE	NUMBER OF SUPPORTS	POST GAUGE	POST LENGTH FROM GROUND TO BOTTOM OF SIGN
2 DIGITS	5' x 6'	2 POSTS	12	12
3 DIGITS	5' x 7.5'	2 POSTS	10	8' MAX
		3 POSTS	10	14' MAX
4 DIGITS	5' x 9'	3 POSTS	10	10 1/2 ' MAX

SQUARE POST CLAMP:
11 GA. TYPE 304, #2B FINISHED STAINLESS STEEL WITH STAINLESS STEEL CARRIAGE BOLT.

CLAMPS CAN BE TWIST LOCKED INTO PLACE WITHOUT SLIDIN THE CLAMPS FROM AN OPEN END OF THE CHANNEL BRACE.



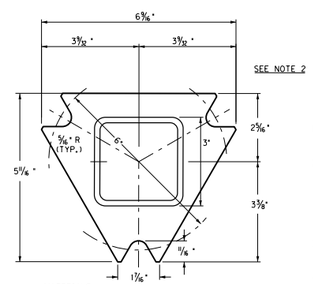
SQUARE POST CLAMP



MATERIALS:
Tube receiver - 3" x 3" x 7 ga. ASTM A500 Grade B tube
Plate - ASTM A572 grade 50

TOP POST RECEIVER / FOR 2 1/2 " SQUARE POST

• 2¼" x 12 GA. MAY BE INSERTED INTO 2½" x 12 GA. FOR ADDITIONAL WINDLOAD.



MATERIALS:
Tube - 3" x 3" x 7 ga. ASTM A500 Grade B tube
Plate - ASTM A572 grade 50

BOTTOM BASE CONCRETE STUB

1. AUGER AN 18" DIAMETER HOLE BY 42" DEEP AT THE PRE-DETERMINED LOCATION.
2. TAP THE BOTTOM OF THE 48" BASE STUB INTO THE SOIL IN THE BOTTOM OF THE HOLE WITH THE BASE PLUMB AND SQUARED UP WITH THE ROADWAY, MAKING SURE THAT THE POINT OF THE PLATE IS FACING ONCOMING TRAFFIC. (THIS SERVES TO STABILIZE THE BASE WHILE POURING THE CONCRETE AS WELL AS TO ALLOW FOR WATER DRAINAGE BELOW THE CONCRETE FOOTING.
3. DEPTH OF INBEDMENT TO LEAVE 2-1/2" FROM THE GRADE TO THE TOP OF THE BASE.
4. ALLOW CONCRETE TO CURE AT LEAST 5 DAYS BEFORE ERECTING SIGN.
5. PLACE 1 EACH TEFLON COATED WASHER SHIM ON EACH OF THE 3 NOTCHED POINTS, WITH THE OPEN SIDE FACING TOWARDS THE CENTER OF THE TRIANGLE.
6. PLACE TOP POST RECEIVER, SO THAT THE SIGN POST IS IN THE CORRECT POSITION FOR SIGN VISIBILITY, ON TO THE BASE AND WASHER SHIMS.
7. PLACE 1 EACH ½" WASHER ONTO TORQUE FREE BOLT AND PLACE IN EACH NOTCHED POINT OF THE TRIANGLE. PUSH EACH TEFLON COATED WASHER SHIM AGAINST THE SHANK OF EACH BOLT AND FINGER TIGHTEN ½" FLANGED LOCK NUT.
8. FULLY TIGHTEN, THEN LOSSEN, ALL THREE TORQUE FREE BOLTS USING THE LARGER 3/4" HEX HEAD. COMPLETE BY TIGHTENING EACH BOLT USING THE SMALLER 9/16" HEX HEAD UNTIL IT TWISTS OFF.
   - •NOTE: SECONDARY HEAD WILL TWIST OFF AT DESIRED TORQUE LEVEL TO MEET FEDERAL COMPLIANCE.
9. INSERT SIGN SUPPORT INTO THE TUBULAR PORTION OF TOP POST RECEIVER AND SECURE WITH 3 EACH 3/8"-16 x 3-1/2" GRADE 8 FLANGED SHOULDER BOLTS AND FLANGED NUTS.
   - •NOTE: WHERE HIGHER WINDLOAD IS DESIRED, INSERT THE NEXT SIZE SMALLER SQUARE POST INSIDE BOTTOM OF MAIN UPRIGHT POST.
   - •NOTE: ON MULTI-LEG INSTALLATIONS, BE SURE THAT ALL ANCHORS ARE SQUARED AND LINED UP WITH EACH OTHER.
10. TYPE D BREAKAWAY SIGN SUPPORT SYSTEMS FOR TYPE I POSTS SHALL BE SELECTED FROM THE KENTUCKY DEPARTMENT OF HIGHWAYS APPROVED MATERIALS LIST, OR AN APPROVED EQUAL. ACCEPTABLE ALTERNATES SHALL BE APPROVED BY THE DIVISION OF HIGHWAY DESIGN AND FHWA, PRIOR TO INSTALLATION.

NOTES FOR INSTALLATION PROCEDURES

NOT TO SCALE

EXIT GORE

SHEETING SIGN DETAIL SHEET

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404.T016 GORE SIGN SHEETING DETAIL.DGN
USER: james-f
DATE PLOTTED: October 30, 2014
E-SHEET NAME:
MicroStation v8.11.9.578

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-193.00	T017

① CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANUFACTURING SIGNS.

② REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT MP 19.98 (PURCHASE PARKWAY NB)

③ REMOVE 465 LF OF GUARDRAIL IN MEDIAN AT MP 19.98

BEGIN CONSTRUCTION
STA. 1057+00

1060+00

1065+00

1070+00

1075+00

S136 - REMOVE AND RELOCATE
PURCHASE PARKWAY SB
MILEPOINT 20.09 LT

FUTURE I-69 CORRIDOR

S1 S2

END SOUTH INTERSTATE 69

BEGIN SOUTH BLUEGRASS PARKWAY Alternate

CARDINAL RD. OVERPASS

S7

SPEED LIMIT 70

I-69 SB

I-69 NB

③ EX OH Truss Sign

②

EXIT 21
TO 45
Mayfield
1 MILE

P2

SIGN LOCATED AT
PURCHASE PARKWAY NB
MILEPOINT 19.98 RT
BEHIND EXISTING
GUARDRAIL

END NORTH PURCHASE PARKWAY Alternate

BEGIN NORTH INTERSTATE 69

S3 S4

60 MPH ①

S5 S6

MATCHLINE STA. 1075+00 SEE SHEET T018

EXIT 21
TO 45
Mayfield
1/2 MILE

P3

I-69 MAINLINE
STA. 1074+00

EXIT 21
TO 45
Mayfield
2 MILES

P1

SIGN LOCATED AT
PURCHASE PARKWAY NB
MILEPOINT 19.03 RT
BEHIND EXISTING
GUARDRAIL

Mayfield
NEXT 4 EXITS

P22

SIGN LOCATED AT
PURCHASE PARKWAY NB
MILEPOINT 18.85 RT
BEHIND EXISTING
GUARDRAIL

0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE
SIGNING PLAN
P.O.B. TO STA. 1075+00

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T017 SIGNING PLAN 1.DGN
USER: andrew-b
DATE PLOTTED: June 29, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T018

① CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANUFACTURING SIGNS.

② REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT STA. 1099+25 (I-69 MAINLINE). INCIDENTAL TO ROADWAY EXCAVATION.

1080+00
1085+00
1090+00
1095+00
1100+00
1105+00

S8 TRAVEL INFO CALL 511

S9 KEEP RIGHT EXCEPT TO PASS

S11 S12 60 M.P.H. ①

I-69 SB
I-69 NB

② EX OH Truss Sign

US 45 RAMP A

MATCHLINE STA. 1075+00 SEE SHEET T017

MATCHLINE STA. 1106+00 SEE SHEET T019

EXIT 40 M.P.H. ① S10

EXIT 22
80
Fancy Farm
Mayfield
1 MILE
P4

EXIT 21
TO 45
Mayfield
P5

60' OVERHEAD TRUSS
I-69 MAINLINE STA. 1097+50

EXIT 21 S13

① RAMP 40 M.P.H. S14

60 M.P.H. ① S15 S16

100+00
105+00

0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE
SIGNING PLAN
STA. 1075+00 TO STA. 1106+00

MicroStation v8.11.9.357
E-SHEET NAME:
USER: andrew-b
DATE PLOTTED: June 29, 2015
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T018 SIGNING PLAN 2.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T019

MATCHLINE STA. 1106+00 SEE SHEET T018

NB US 45 MP 14.69

REMOVE EXISTING LEFT MOST SIGN ON TRUSS AND REPLACE WITH P19

P19

① CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANUFACTURING SIGNS.

② REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT STA. 601+30 (US 45 TIE-IN).

③ REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT STA. 305+00 (US 45 RAMP D). INCIDENTAL TO ROADWAY EXCAVATION.

④ REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT STA. 1128+85 505' LT (I-69 MAINLINE).

500+00 125+00 120+00 115+00 110+00 300+00 1110+00 1115+00 415+00 305+00 1120+00 1125+00 410+00

605+00 00+009 200+00 505+00 205+00 510+00 210+00 515+00 215+00 310+00

US 45 TIE-IN

US 45 RAMP A

US 45

US 45 RAMP B

US 45 RAMP C

US 45 RAMP D

I-69 SB

I-69 NB

S18

S19 S20

S21-S31

S32

S33

S34

S132

S133

S137

S138

EX OH Truss Sign ②

EX OH Truss Sign ③

④ EX OH Truss Sign

BRIDGES FREEZE BEFORE ROADWAY

STOP

45 SOUTH Fulton

TO 69 Henderson Fulton

P17 P18

60' OVERHEAD TRUSS
US 45 TIE-IN STA. 601+25

69 SOUTH Fulton

69 NORTH Henderson

P15 P16

60' OVERHEAD TRUSS
US 45 STA. 507+25

MATCHLINE STA. 1129+00 SEE SHEET T019

0' 100' 200' 400'

SCALE: 1"=100

I-69/US 45 INTERCHANGE SIGNING PLAN STA. 1106+00 TO STA. 1129+00

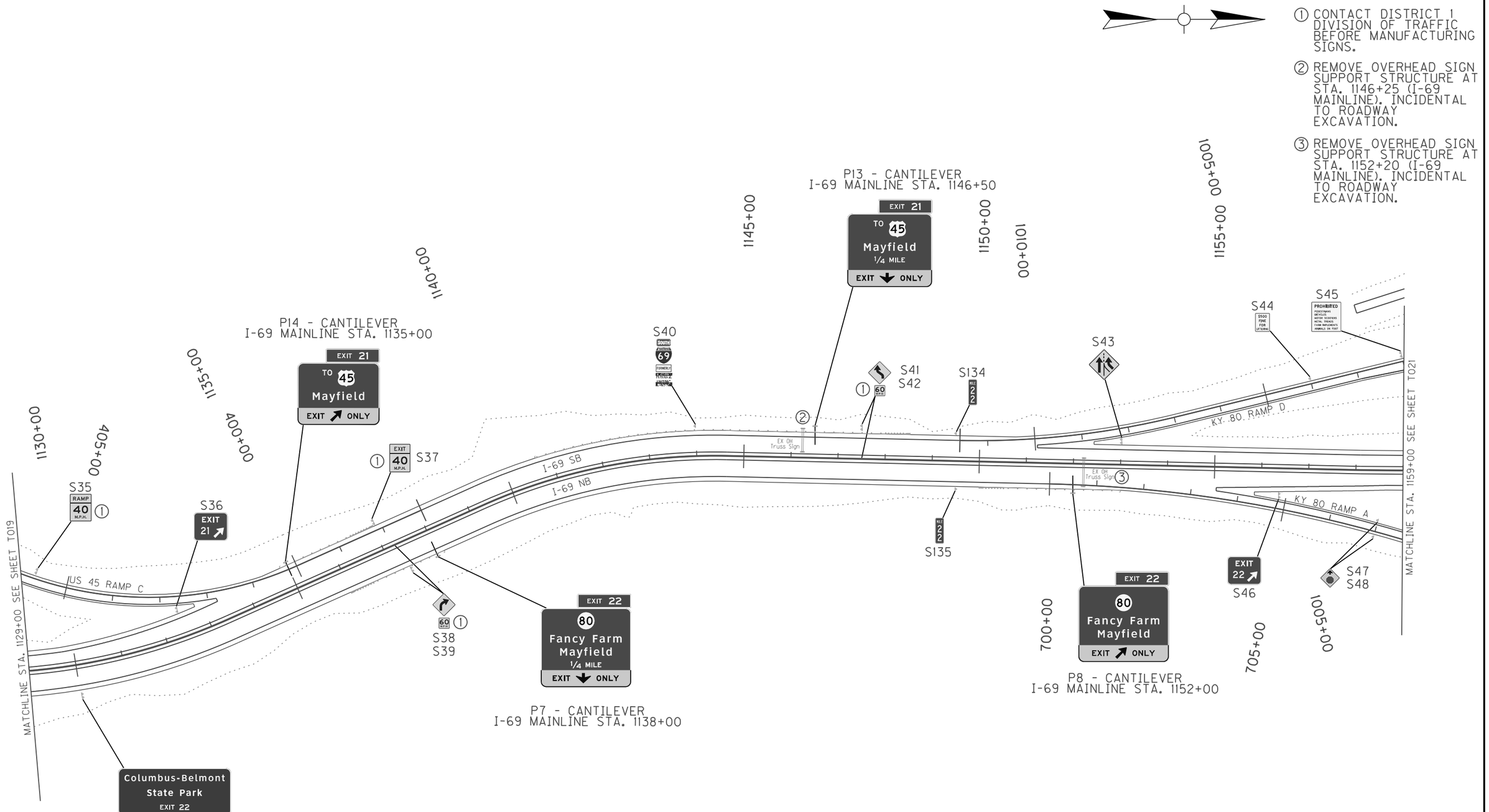
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T019 SIGNING PLAN 3.DGN
USER: andrew-b
DATE PLOTTED: June 25, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T020

① CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANUFACTURING SIGNS.

② REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT STA. 1146+25 (I-69 MAINLINE). INCIDENTAL TO ROADWAY EXCAVATION.

③ REMOVE OVERHEAD SIGN SUPPORT STRUCTURE AT STA. 1152+20 (I-69 MAINLINE). INCIDENTAL TO ROADWAY EXCAVATION.



0′ 100′ 200′ 400′

SCALE: 1"=100

I-69/US 45 INTERCHANGE
SIGNING PLAN
STA. 1129+00 TO STA. 1159+00

MicroStation v8.11.9.357
E-SHEET NAME:
USER: andrew-b
DATE PLOTTED: June 25, 2015
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T020 SIGNING PLAN 4.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T021

① CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANUFACTURING SIGNS.

② TO BE INSTALLED BY KYTC FORCES

P12
I-69 MAINLINE STA. 1162+50

P11 - REMOVE AND RELOCATE
I-69 MAINLINE STA. 1173+50

P10
I-69 MAINLINE STA. 1181+50

P9 - REMOVE AND RELOCATE
I-69 MAINLINE STA. 1183+00

EXIT 21 — TO 45 — Mayfield — 1/2 MILE

EXIT 22 — 80 — Mayfield — Fancy Farm

Columbus-Belmont State Park — EXIT 22

GAS - EXIT 24

LODGING - EXIT 24

END CONSTRUCTION
STA. 1186+15.42

MATCHLINE STA. 1159+00 SEE SHEET T020

KY 80 RAMP A

KY 80 RAMP B

KY 80 RAMP C

KY 80 RAMP D

I-69 SB

I-69 NB

1000+00 1160+00 45+00 910+00 1165+00 905+00 1170+00 900+00 1175+00 1180+00 1185+00 50+00 55+00 60+00 800+00 805+00 810+00 815+00 820+00 710+00

S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86 S87 S88 S89 S90 S91 S92 S93 S94 S95 S96 S97 S98 S99 S100 S101 S102 S103 S104 S105 S106 S107 S108 S109 S110 S111 S112 S113 S114 S115 S116 S117 S118 S119 S120 S121 S122 S123 S124 S125 S126 S127 S128 S129 S130 S131

P20 P21

0' 100' 200' 400'

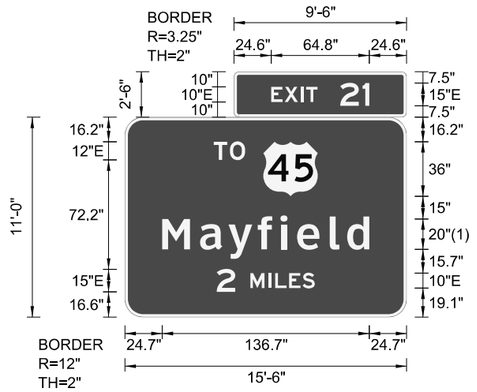
SCALE: 1"=100

I-69/US 45 INTERCHANGE
SIGNING PLAN
STA. 1159+00 TO P.O.E.

FILE NAME: C:\PW_WORKDIR\ANDREW~B\DMS01404\T021 SIGNING PLAN 5.DGN
USER: andrew-b
DATE PLOTTED: June 25, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T022

GENERAL NOTES:

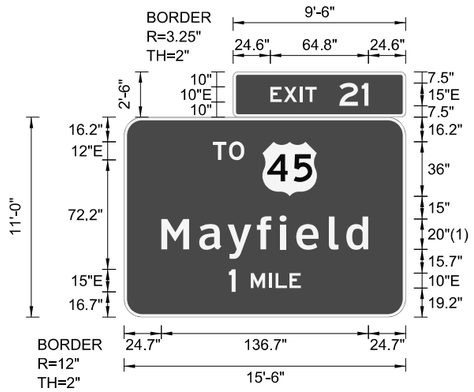


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P1
QUANITY	1
WIDTH	15'-6"
HEIGHT	11'-0"
AREA (Sq.Ft.)	194.3 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	---
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	P.P. MP 19.03
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W14x30
BEAM/POST LENGTH	1.= 32.2'
BEAM/POST LENGTH	2.= 36.8'
BEAM/POST LENGTH	3.=
BEAM/POST LENGTH	4.=
CONC 'a' = 3'-0"	4.72 Cu. Yds.
CONC 'b' = 9'-0"	

SUPPORT TYPE				
SUPPORT TYPE TYPE A				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	91.4	79.9	36	36

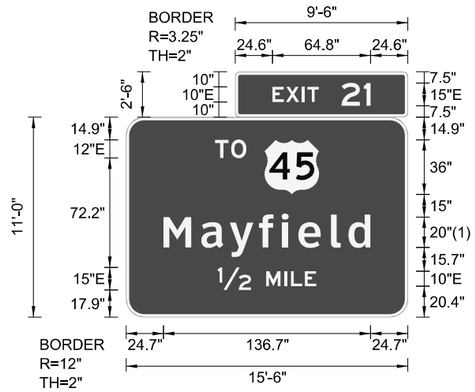


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P2
QUANITY	1
WIDTH	15'-6"
HEIGHT	11'-0"
AREA (Sq.Ft.)	194.3 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	---
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	P.P. MP 19.98
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W14X30
BEAM/POST LENGTH	1.= 32.2'
BEAM/POST LENGTH	2.= 36.8'
BEAM/POST LENGTH	3.=
BEAM/POST LENGTH	4.=
CONC 'a' = 3'-0"	4.72 Cu. Yds.
CONC 'b' = 9'-0"	

SUPPORT TYPE				
SUPPORT TYPE TYPE A				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	91.4	79.9	36	36

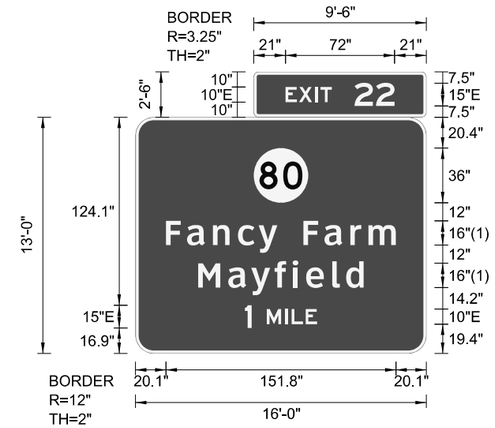


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P3
QUANITY	1
WIDTH	15'-6"
HEIGHT	11'-0"
AREA (Sq.Ft.)	194.3 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1074+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W8x21
BEAM/POST LENGTH	1.= 19.4'
BEAM/POST LENGTH	2.= 17.9'
BEAM/POST LENGTH	3.=
BEAM/POST LENGTH	4.=
CONC 'a' = 2'-6"	2.54 Cu. Yds.
CONC 'b' = 7'-0"	

SUPPORT TYPE				
SUPPORT TYPE TYPE C				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	91.4	81.1	36	36

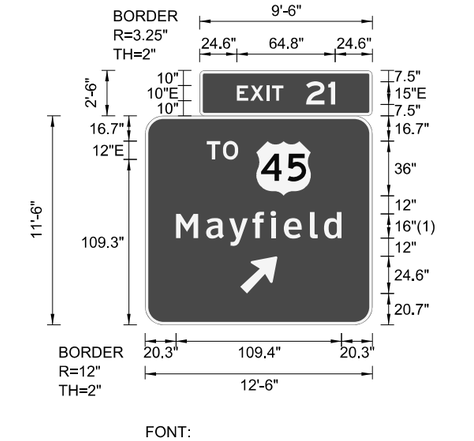


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P4
QUANITY	1
WIDTH	16'-0"
HEIGHT	13'-0"
AREA (Sq.Ft.)	231.8 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1097+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1.=
BEAM/POST LENGTH	2.=
BEAM/POST LENGTH	3.=
BEAM/POST LENGTH	4.=
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
KY_2	78	99.6	36	36

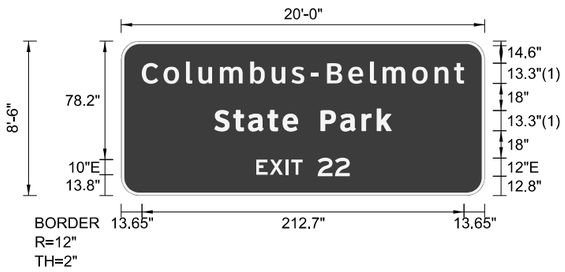


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P5
QUANITY	1
WIDTH	12'-6"
HEIGHT	11'-6"
AREA (Sq.Ft.)	167.5 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1097+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1.=
BEAM/POST LENGTH	2.=
BEAM/POST LENGTH	3.=
BEAM/POST LENGTH	4.=
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	73.4	85.3	36	36
AR_Type A	62.7	20.7	19.8	31.2



FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P6
QUANITY	1
WIDTH	20'-0"
HEIGHT	8'-6"
AREA (Sq.Ft.)	170.0 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Brown
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1130+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W10x26
BEAM/POST LENGTH	1.= 19.2'
BEAM/POST LENGTH	2.= 21.2'
BEAM/POST LENGTH	3.=
BEAM/POST LENGTH	4.=
CONC 'a' = 3'-0"	4.18 Cu. Yds.
CONC 'b' = 8'-0"	

SUPPORT TYPE				
SUPPORT TYPE TYPE C				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT

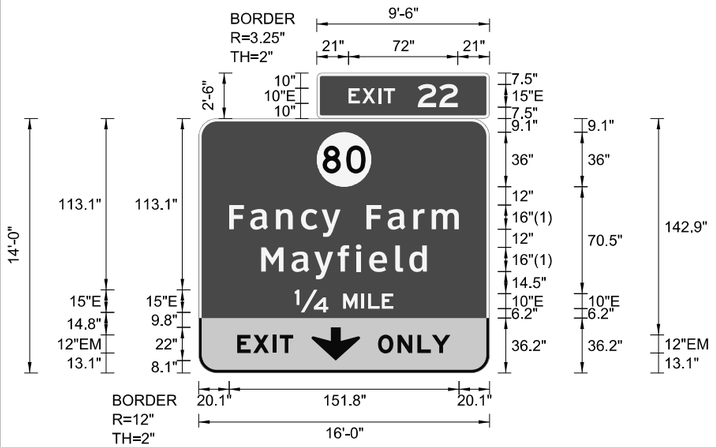
I-69/US 45 INTERCHANGE
SIGNING PLAN
PANEL SIGN DETAIL SHEET

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T022 - T026 PANEL SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 24, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T023

GENERAL NOTES:

1. SIGN IS REMOVE AND RELOCATE.
2. CONTRACTOR MUST DISPLAY LOGO SIGNS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING BREAKAWAY POSTS IF NECESSARY OR PROTECTING SIGNS WITH GUARDRAIL.

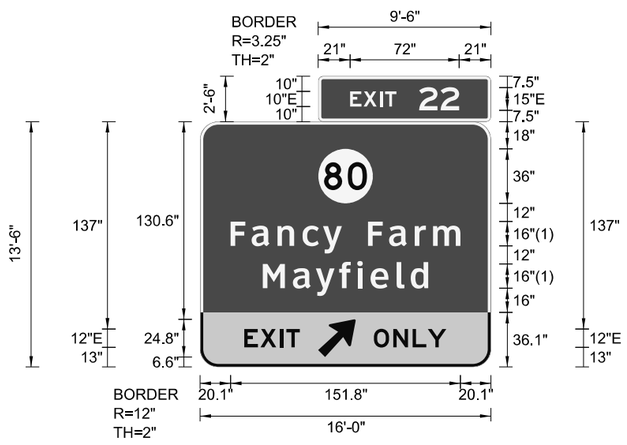


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P7
QUANITY	1
WIDTH	16'-0"
HEIGHT	14'-0"
AREA (Sq.Ft.)	247.8 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green/Yellow
LEGEND/BORDER COLOR	White/Black
STATIONS(S)	1138+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	CANTILEVER
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT 'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
KY_2	78	122.9	36	36
ARDOWN	74.5	8.1	32	22

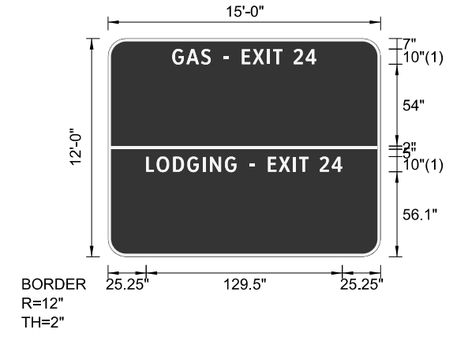


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P8
QUANITY	1
WIDTH	16'-0"
HEIGHT	13'-6"
AREA (Sq.Ft.)	239.8 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green/Yellow
LEGEND/BORDER COLOR	White/Black
STATIONS(S)	1152+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	CANTILEVER
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT 'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
KY_2	78	108	36	36
AR.Type A	77.9	6.6	20	31.5



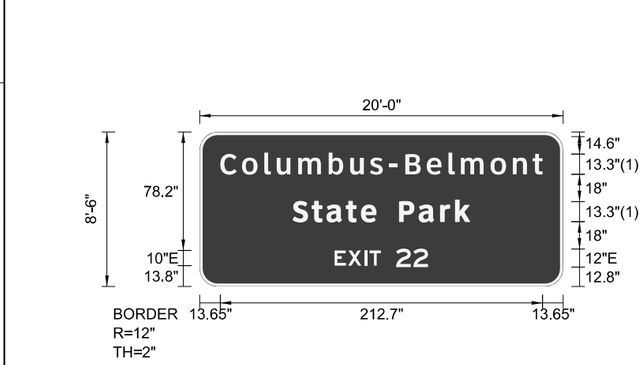
FONT:
(1) ClearviewHwy-3-W

(1)
(2)

SIGN INFORMATION	
SIGN NUMBER	P9
QUANITY	1
WIDTH	15'-0"
HEIGHT	12'-0"
AREA (Sq.Ft.)	180.0 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Blue
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1183+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W8x21
BEAM/POST LENGTH	1. = 27.9'
BEAM/POST LENGTH	2. = 28.0'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 2'-6"	2.54 Cu. Yds.
CONC 'b' = 7'-0"	

SUPPORT TYPE	TYPE A			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT 'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT

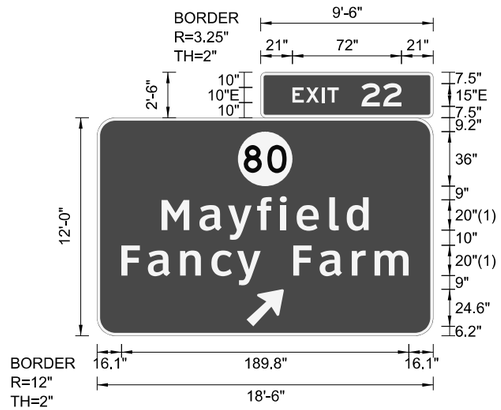


FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P10
QUANITY	1
WIDTH	20'-0"
HEIGHT	8'-6"
AREA (Sq.Ft.)	170.0 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Brown
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1181+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	SB
SIDE OF ROAD	LT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W8x18
BEAM/POST LENGTH	1. = 17.6'
BEAM/POST LENGTH	2. = 15.5'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 2'-6"	2.54 Cu. Yds.
CONC 'b' = 7'-0"	

SUPPORT TYPE	TYPE C			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT 'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT



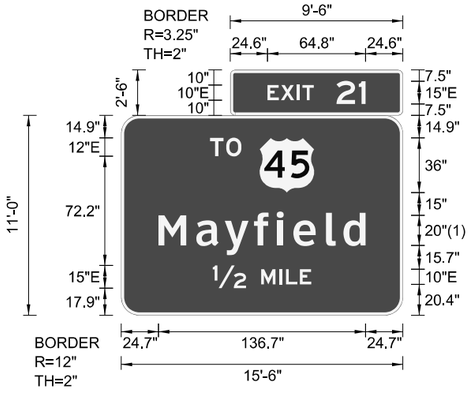
FONT:
(1) ClearviewHwy-5-W

(1)

SIGN INFORMATION	
SIGN NUMBER	P11
QUANITY	1
WIDTH	18'-6"
HEIGHT	12'-0"
AREA (Sq.Ft.)	245.8 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1173+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	SB
SIDE OF ROAD	LT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W18x40
BEAM/POST LENGTH	1. = 31.9'
BEAM/POST LENGTH	2. = 36.0'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 3'-6"	6.42 Cu. Yds.
CONC 'b' = 9'-0"	

SUPPORT TYPE	TYPE A			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT 'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
KY_2	93	98.8	36	36
AR.Type A	98.7	6.2	19.8	31.2



FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P12
QUANITY	1
WIDTH	15'-6"
HEIGHT	11'-0"
AREA (Sq.Ft.)	194.3 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1162+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	SB
SIDE OF ROAD	LT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W8x21
BEAM/POST LENGTH	1. = 20.5'
BEAM/POST LENGTH	2. = 16.9'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 2'-6"	2.54 Cu. Yds.
CONC 'b' = 7'-0"	

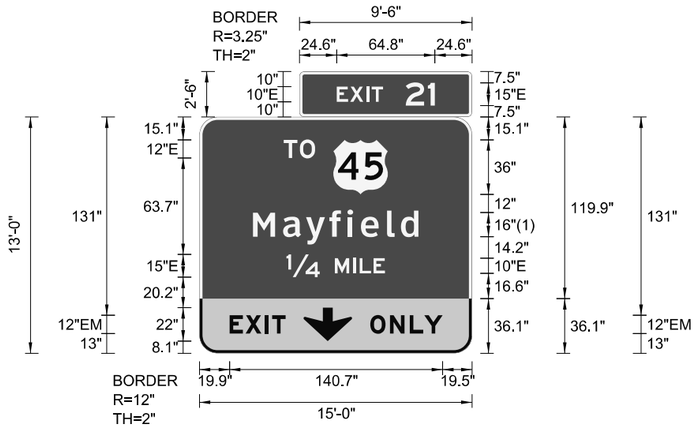
SUPPORT TYPE	TYPE C			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT 'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	91.4	81.1	36	36

I-69/US 45 INTERCHANGE
SIGNING PLAN
PANEL SIGN DETAIL SHEET

FILE NAME: C:\PW_WORKDIR\
USER: andrew-b
DATE PLOTTED: June 24, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T024

GENERAL NOTES:



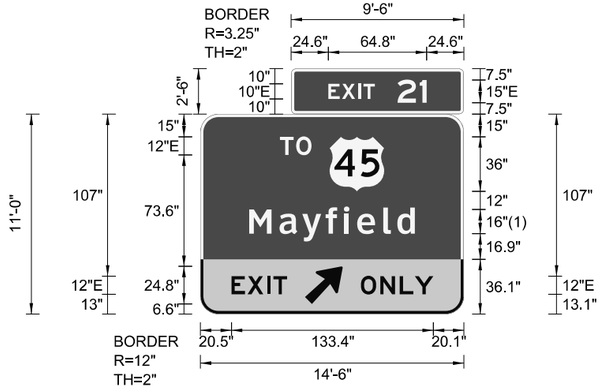
FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P13
QUANITY	1
WIDTH	15'-0"
HEIGHT	13'-0"
AREA (Sq.Ft.)	218.8 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green/Yellow
LEGEND/BORDER COLOR	White/Black
STATIONS(S)	1146+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	SB
SIDE OF ROAD	LT
MOUNTING STYLE	CANTILEVER
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE
'A' = FIXED BEAMS
'B' = STANDARD BREAK-A-WAY BEAMS
'C' = OMNI-DIRECTIONAL BREAK-A-WAY

HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	88.4	104.9	36	36
ARDOWN	68.7	8.1	32	22



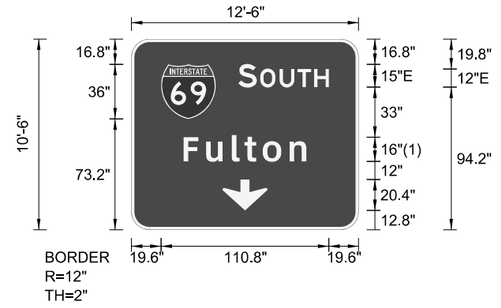
FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P14
QUANITY	1
WIDTH	14'-6"
HEIGHT	11'-0"
AREA (Sq.Ft.)	183.3 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green/Yellow
LEGEND/BORDER COLOR	White/Black
STATIONS(S)	1135+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	I-69
TRAFFIC DIRECTION	SB
SIDE OF ROAD	LT
MOUNTING STYLE	CANTILEVER
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE
'A' = FIXED BEAMS
'B' = STANDARD BREAK-A-WAY BEAMS
'C' = OMNI-DIRECTIONAL BREAK-A-WAY

HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	85.4	81	36	36
AR_Type A	69.2	6.6	20	31.5



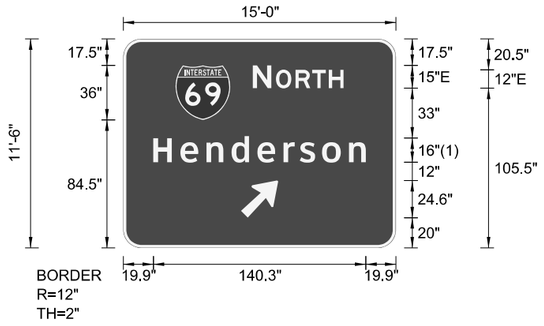
FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P15
QUANITY	1
WIDTH	12'-6"
HEIGHT	10'-6"
AREA (Sq.Ft.)	131.3 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	507+25
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	US 45 BYPASS
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE
'A' = FIXED BEAMS
'B' = STANDARD BREAK-A-WAY BEAMS
'C' = OMNI-DIRECTIONAL BREAK-A-WAY

HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
M1-1	19.6	73.2	36	36
ARDOWN	60.2	12.9	29.7	20.4



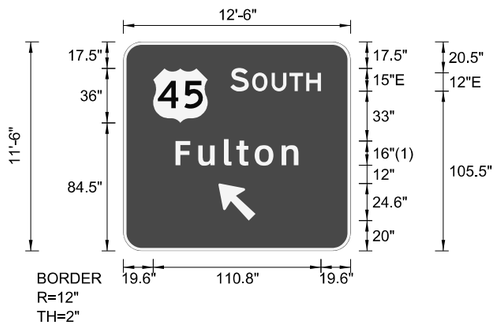
FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P16
QUANITY	1
WIDTH	15'-0"
HEIGHT	11'-6"
AREA (Sq.Ft.)	172.5 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	507+25
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	US 45 BYPASS
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE
'A' = FIXED BEAMS
'B' = STANDARD BREAK-A-WAY BEAMS
'C' = OMNI-DIRECTIONAL BREAK-A-WAY

HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
M1_1	34.5	84.5	36	36
AR_Type A	77.7	20	19.8	31.2



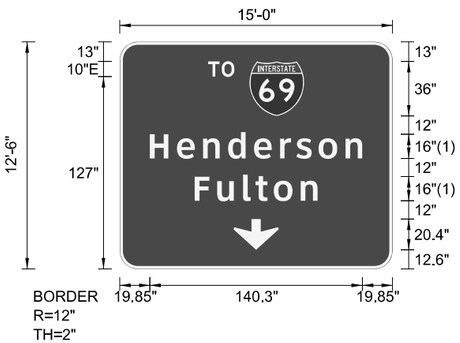
FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P17
QUANITY	1
WIDTH	12'-6"
HEIGHT	11'-6"
AREA (Sq.Ft.)	143.8 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	601+25
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	US 45 TIE-IN
TRAFFIC DIRECTION	WB
SIDE OF ROAD	
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE
'A' = FIXED BEAMS
'B' = STANDARD BREAK-A-WAY BEAMS
'C' = OMNI-DIRECTIONAL BREAK-A-WAY

HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
M1_4	19.6	84.5	36	36
AR_Type A	62.7	20.0	19.8	31.2



FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P18
QUANITY	1
WIDTH	15'-0"
HEIGHT	12'-6"
AREA (Sq.Ft.)	187.5 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	601+25
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

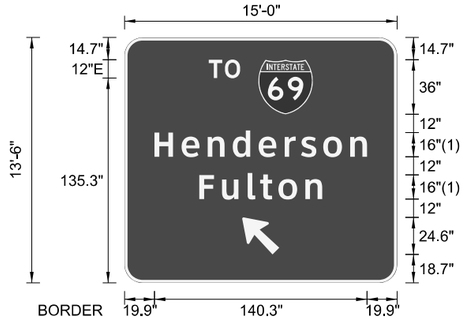
SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	US 45 TIE-IN
TRAFFIC DIRECTION	WB
SIDE OF ROAD	
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE
'A' = FIXED BEAMS
'B' = STANDARD BREAK-A-WAY BEAMS
'C' = OMNI-DIRECTIONAL BREAK-A-WAY

HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
M1_1	85.7	101	36	36
AR_Down	75.1	12.6	29.7	20.4

I-69/US 45 INTERCHANGE
SIGNING PLAN
PANEL SIGN DETAIL SHEET

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T022 - T026 PANEL SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 24, 2015
E-SHEET NAME:
MicroStation v8.11.9.357



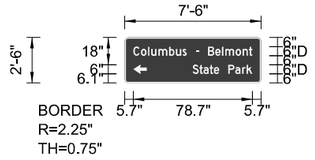
FONT:
(1) ClearviewHwy-5-W

(1)

SIGN INFORMATION	
SIGN NUMBER	P19
QUANITY	1
WIDTH	15'-0"
HEIGHT	13'-6"
AREA (Sq. Ft.)	202.5 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	12"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	---
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	US45 MP 14.69
TRAFFIC DIRECTION	NB
SIDE OF ROAD	LT
MOUNTING STYLE	TRUSS
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

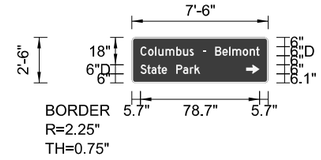
SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
M1_1	88.4	111.3	36	36
AR_Type A	77.7	18.7	19.8	31.2



SIGN INFORMATION	
SIGN NUMBER	P20
QUANITY	1
WIDTH	7'-6"
HEIGHT	2'-6"
AREA (Sq. Ft.)	18.8 Sq.Ft.
BORDER WIDTH	1"
BORDER RADII	4"
PANEL COLOR	Brown
LEGEND/BORDER COLOR	White/White
STATIONS(S)	710+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	KY 80 RAMP A
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W6x9
BEAM/POST LENGTH	1. = 17.5'
BEAM/POST LENGTH	2. = 19.8'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 2'-0"	1.16 Cu. Yds.
CONC 'b' = 5'-0"	

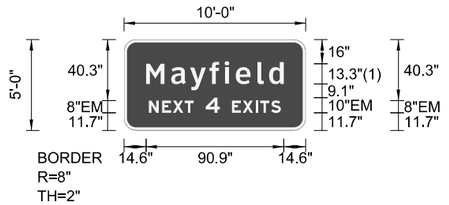
SUPPORT TYPE	TYPE A			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
AR_Type D	5.7	6.1	6	8.9



SIGN INFORMATION	
SIGN NUMBER	P21
QUANITY	1
WIDTH	7'-6"
HEIGHT	2'-6"
AREA (Sq. Ft.)	18.8 Sq.Ft.
BORDER WIDTH	1"
BORDER RADII	4"
PANEL COLOR	Brown
LEGEND/BORDER COLOR	White/White
STATIONS(S)	911+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	KY 80 RAMP C
TRAFFIC DIRECTION	SB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W6x9
BEAM/POST LENGTH	1. = 17.5'
BEAM/POST LENGTH	2. = 19.8'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 2'-0"	1.16 Cu. Yds.
CONC 'b' = 5'-0"	

SUPPORT TYPE	TYPE A			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT
AR_Type D	75.4	6.1	6	8.9



FONT:
(1) ClearviewHwy-5-W

SIGN INFORMATION	
SIGN NUMBER	P22
QUANITY	1
WIDTH	10'-0"
HEIGHT	5'-0"
AREA (Sq. Ft.)	50.0 Sq.Ft.
BORDER WIDTH	2"
BORDER RADII	8"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	---
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	P.P. MP 18.85
TRAFFIC DIRECTION	NB
SIDE OF ROAD	RT
MOUNTING STYLE	BEAMS
BEAM MATERIAL	
BEAM SIZE	W6x16
BEAM/POST LENGTH	1. = 19.7'
BEAM/POST LENGTH	2. = 21.7'
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' = 2'-0"	1.16 Cu. Yds.
CONC 'b' = 5'-0"	

SUPPORT TYPE	TYPE A			
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT

SIGN INFORMATION	
SIGN NUMBER	
QUANITY	
WIDTH	
HEIGHT	
AREA (Sq. Ft.)	
BORDER WIDTH	
BORDER RADII	
PANEL COLOR	
LEGEND/BORDER COLOR	
STATIONS(S)	
PANEL MATERIAL	
LEGEND MATERIAL	

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	
TRAFFIC DIRECTION	
SIDE OF ROAD	
MOUNTING STYLE	
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT

SIGN INFORMATION	
SIGN NUMBER	
QUANITY	
WIDTH	
HEIGHT	
AREA (Sq. Ft.)	
BORDER WIDTH	
BORDER RADII	
PANEL COLOR	
LEGEND/BORDER COLOR	
STATIONS(S)	
PANEL MATERIAL	
LEGEND MATERIAL	

SIGN LOCATION / SUPPORT	
ROAD & MILE POINT	
TRAFFIC DIRECTION	
SIDE OF ROAD	
MOUNTING STYLE	
BEAM MATERIAL	
BEAM SIZE	
BEAM/POST LENGTH	1. =
BEAM/POST LENGTH	2. =
BEAM/POST LENGTH	3. =
BEAM/POST LENGTH	4. =
CONC 'a' =	Cu. Yds.
CONC 'b' =	

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE		'LEFT		
		'RIGHT		
SYMBOL	X	Y	WIDTH	HEIGHT

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	I-234.20	T025

GENERAL NOTES:

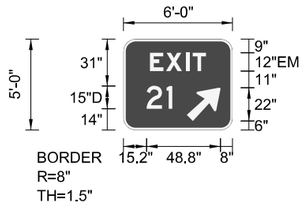
1. REMOVE EXISTING SIGN ON TRUSS AND REPLACE WITH P19 AT NB US 45 MP 14.69. CONTRACTOR SHALL MAINTAIN 17' VERTICAL CLEARANCE BETWEEN PAVEMENT AND BOTTOM OF SIGN.

I-69/US 45 INTERCHANGE
SIGNING PLAN
PANEL SIGN DETAIL SHEET

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T022 - T026 PANEL SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 24, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T026

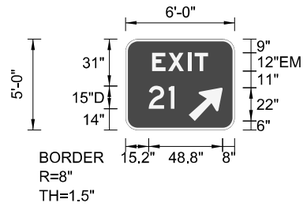
GENERAL NOTES:



SIGN INFORMATION	
SIGN NUMBER	S13
QUANITY	1
WIDTH	6'-0"
HEIGHT	5'-0"
AREA (Sq. Ft.)	30.0 Sq.Ft.
BORDER WIDTH	1.5"
BORDER RADII	8"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1102+00
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT		
ROAD & MILE POINT	I-69	
TRAFFIC DIRECTION	NB	
SIDE OF ROAD	GORE	
MOUNTING STYLE	TYPE I POSTS	
BEAM MATERIAL		
BEAM SIZE		
BEAM/POST LENGTH	1. = 17.0'	
BEAM/POST LENGTH	2. = 17.0'	
BEAM/POST LENGTH	3. =	
BEAM/POST LENGTH	4. =	
CONC 'a' = 1'-6"	0.46	Cu. Yds.
CONC 'b' = 3'-6"		

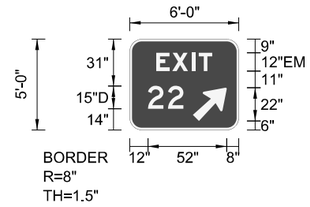
SUPPORT TYPE				
SUPPORT TYPE TYPE D				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
AR_Type A	41.7	6	17.7	28.2



SIGN INFORMATION	
SIGN NUMBER	S36
QUANITY	1
WIDTH	6'-0"
HEIGHT	5'-0"
AREA (Sq. Ft.)	30.0 Sq.Ft.
BORDER WIDTH	1.5"
BORDER RADII	8"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1132+50
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT		
ROAD & MILE POINT	I-69	
TRAFFIC DIRECTION	SB	
SIDE OF ROAD	GORE	
MOUNTING STYLE	TYPE I POSTS	
BEAM MATERIAL		
BEAM SIZE		
BEAM/POST LENGTH	1. = 17.0'	
BEAM/POST LENGTH	2. = 17.0'	
BEAM/POST LENGTH	3. =	
BEAM/POST LENGTH	4. =	
CONC 'a' = 1'-6"	0.46	Cu. Yds.
CONC 'b' = 3'-6"		

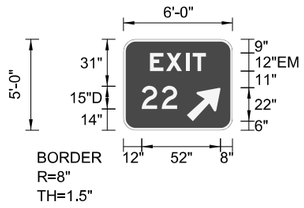
SUPPORT TYPE				
SUPPORT TYPE TYPE D				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
AR_Type A	41.7	6	17.7	28.2



SIGN INFORMATION	
SIGN NUMBER	S46
QUANITY	1
WIDTH	6'-0"
HEIGHT	5'-0"
AREA (Sq. Ft.)	30.0 Sq.Ft.
BORDER WIDTH	1.5"
BORDER RADII	8"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1156+40
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT		
ROAD & MILE POINT	I-69	
TRAFFIC DIRECTION	NB	
SIDE OF ROAD	GORE	
MOUNTING STYLE	TYPE I POSTS	
BEAM MATERIAL		
BEAM SIZE		
BEAM/POST LENGTH	1. = 17.0'	
BEAM/POST LENGTH	2. = 17.0'	
BEAM/POST LENGTH	3. =	
BEAM/POST LENGTH	4. =	
CONC 'a' = 1'-6"	0.46	Cu. Yds.
CONC 'b' = 3'-6"		

SUPPORT TYPE				
SUPPORT TYPE TYPE D				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
AR_Type A	41.7	6	17.7	28.2



SIGN INFORMATION	
SIGN NUMBER	S125
QUANITY	1
WIDTH	6'-0"
HEIGHT	5'-0"
AREA (Sq. Ft.)	30.0 Sq.Ft.
BORDER WIDTH	1.5"
BORDER RADII	8"
PANEL COLOR	Green
LEGEND/BORDER COLOR	White/White
STATIONS(S)	1167+85
PANEL MATERIAL	Reflective
LEGEND MATERIAL	Reflective

SIGN LOCATION / SUPPORT		
ROAD & MILE POINT	I-69	
TRAFFIC DIRECTION	SB	
SIDE OF ROAD	GORE	
MOUNTING STYLE	TYPE I POSTS	
BEAM MATERIAL		
BEAM SIZE		
BEAM/POST LENGTH	1. = 17.0'	
BEAM/POST LENGTH	2. = 17.0'	
BEAM/POST LENGTH	3. =	
BEAM/POST LENGTH	4. =	
CONC 'a' = 1'-6"	0.46	Cu. Yds.
CONC 'b' = 3'-6"		

SUPPORT TYPE				
SUPPORT TYPE TYPE D				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT
AR_Type A	41.7	6	17.7	28.2

SIGN INFORMATION	
SIGN NUMBER	
QUANITY	
WIDTH	
HEIGHT	
AREA (Sq. Ft.)	
BORDER WIDTH	
BORDER RADII	
PANEL COLOR	
LEGEND/BORDER COLOR	
STATIONS(S)	
PANEL MATERIAL	
LEGEND MATERIAL	

SIGN LOCATION / SUPPORT		
ROAD & MILE POINT		
TRAFFIC DIRECTION		
SIDE OF ROAD		
MOUNTING STYLE		
BEAM MATERIAL		
BEAM SIZE		
BEAM/POST LENGTH	1. =	
BEAM/POST LENGTH	2. =	
BEAM/POST LENGTH	3. =	
BEAM/POST LENGTH	4. =	
CONC 'a' =		Cu. Yds.
CONC 'b' =		

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT

SIGN INFORMATION	
SIGN NUMBER	
QUANITY	
WIDTH	
HEIGHT	
AREA (Sq. Ft.)	
BORDER WIDTH	
BORDER RADII	
PANEL COLOR	
LEGEND/BORDER COLOR	
STATIONS(S)	
PANEL MATERIAL	
LEGEND MATERIAL	

SIGN LOCATION / SUPPORT		
ROAD & MILE POINT		
TRAFFIC DIRECTION		
SIDE OF ROAD		
MOUNTING STYLE		
BEAM MATERIAL		
BEAM SIZE		
BEAM/POST LENGTH	1. =	
BEAM/POST LENGTH	2. =	
BEAM/POST LENGTH	3. =	
BEAM/POST LENGTH	4. =	
CONC 'a' =		Cu. Yds.
CONC 'b' =		

SUPPORT TYPE				
SUPPORT TYPE				
'A' = FIXED BEAMS 'B' = STANDARD BREAK-A-WAY BEAMS 'C' = OMNI-DIRECTIONAL BREAK-A-WAY				
HORIZONTAL CLEARANCE	'LEFT			
	'RIGHT			
SYMBOL	X	Y	WIDTH	HEIGHT

I-69/US 45 INTERCHANGE
SIGNING PLAN
PANEL SIGN DETAIL SHEET

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T022 - T026 PANEL SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 24, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T027

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)
S-1	48	84	END SOUTH INTERSTATE 69	M4-6	LT	SB	I-69	1057+00
				M3-3				
				M1-1				
S-2	54	84	BEGIN SOUTH JULIAN M. CARROLL PURCHASE PARKWAY Kentucky	M4-14	LT	SB	I-69	1057+00
				M3-3				
				PURCHASE PARKWAY				
S-3	54	84	END NORTH JULIAN M. CARROLL PURCHASE PARKWAY Kentucky	M4-6	RT	NB	I-69	1057+00
				M3-1				
				PURCHASE PARKWAY				
S-4	48	84	BEGIN NORTH INTERSTATE 69	M4-14	RT	NB	I-69	1057+00
				M3-1				
				M1-1				
S-5 S-6	36	36	④ 60 M.P.H.	W1-2R	MED	NB	I-69	1061+00
	30	30		W13-1P	RT	NB	I-69	1061+00
S-7	48	60	SPEED LIMIT 70	R2-1	LT	SB	I-69	1062+00
S-8	48	60	511 TRAVEL INFO CALL 511	D12-5	LT	SB	I-69	1087+00
S-9	48	60	KEEP RIGHT EXCEPT TO PASS	D12-5	LT	SB	I-69	1090+00
S-10	36	48	④ EXIT 40 M.P.H.	W13-2	RT	NB	I-69	1093+00
S-11 S-12	36	36	④ 60 M.P.H.	W1-2	MED	SB	I-69	1098+50
	30	30		W13-1P	LT	SB	I-69	1098+50
S-14	36	48	④ RAMP 40 M.P.H.	W13-3	RT	NB	US45 RAMP A	108+00
S-15 S-16	36	36	④ 60 M.P.H.	W1-2	MED	NB	I-69	1105+50
	30	30		W13-1P	RT	NB	I-69	1105+50

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES). OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.
4. CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANFACTURING SIGNS.

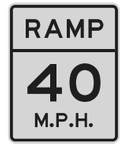
I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T028

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)
S-17			SIGN NOT USED					
S-18	48	48		W4-3	LT	SB	US 45	508+00
S-19 S-20	48	48	 ④ 25 M.P.H.	W1-11	MED	NB	US 45	514+00
	24	24		W13-1P	RT	NB	US 45	514+00
S-21 S-22 S-23 S-24 S-25 S-26	30	36		W1-8R	LT	NB	US45 RAMP D	300+80
					LT	NB	US45 RAMP D	301+60
					LT	NB	US45 RAMP D	302+40
					LT	NB	US45 RAMP D	303+20
					LT	NB	US45 RAMP D	304+00
					LT	NB	US45 RAMP D	304+80
S-27 S-28 S-29 S-30 S-31	30	36		W1-8R	LT	NB	US45 RAMP D	305+60
					LT	NB	US45 RAMP D	306+40
					LT	NB	US45 RAMP D	307+20
					LT	NB	US45 RAMP D	308+00
					LT	NB	US45 RAMP D	308+80
S-32	48	48		W4-3	RT	NB	I-69	1118+75

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)
S-33	48	48		W4-1	LT	SB	I-69	1122+50
S-34	36	18		M3-1	RT	NB	I-69	1125+00
	36	36		M1-1				
	36	18		M4-1 (MODIFIED)				
	36	36		PURCHASE PARKWAY				
S-35	36	48	④ 	W13-3	RT	SB	US45 RAMP C	405+70
S-37	36	48	④ 	W13-2	LT	SB	I-69	1137+00
S-38 S-39	36	36	④ 	W1-2R	MED	NB	I-69	1137+25
	30	30		W13-1P	RT	NB	I-69	1137+25
S-40	36	18		M3-3	LT	SB	I-69	1144+00
	36	36		M1-1				
	36	18		M4-1 (MODIFIED)				
	36	36		PURCHASE PARKWAY				

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.
4. CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANFACTURING SIGNS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T029

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-41 S-42	36	36	 ④ 60 M.P.H.	W1-4	MED	SB	I-69	1147+50
	30	30		W13-1P	LT	SB	I-69	1147+50
S-43	48	48		W4-3	LT	SB	I-69	1153+00
S-44	48	60	$500 FINE FOR LITTERING	R2-10 (MODIFIED)	RT	SB	KY80 RAMP D	514+00
S-45	48	60	PROHIBITED PEDESTRIANS BICYCLES MOTOR SCOOTERS METAL TREADS FARM IMPLEMENTS ANIMALS ON FOOT	R5-10a (MODIFIED)	LT	NB	KY80 RAMP D	1002+00
S-47 S-48	48	48		W3-1	RT	NB	KY80 RAMP A	707+00
					LT	NB	KY80 RAMP A	707+00
S-49	21	15	JCT INTERSTATE 69	M2-1	RT	EB	KY 80	41+00
	24	24		M1-1				

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-50	24	12	NORTH INTERSTATE 69	M3-1	RT	EB	KY 80	43+00
	24	24		M1-1				
	21	15		M6-3				
S-51	24	12	SOUTH INTERSTATE 69	M3-3	RT	EB	KY 80	43+00
	24	24		M1-1				
	21	15		M5-2R				
S-52	30	36	SPEED LIMIT 35	R2-1	RT	SB	S SUTTON LN	1+00
S-53	30	36	$500 FINE FOR LITTERING	R2-10 MODIFIED	RT	SB	S SUTTON LN	1+00
S-54	36	8	S SUTTON LN	D3-1	LT	EB/WB	S SUTTON LN	0+70
S-55	48	8	W BROADWAY	D3-1	LT	NB/SB	S SUTTON LN	0+70

SPECIAL NOTES:

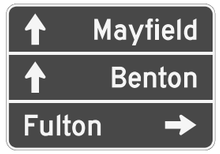
1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.
4. CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANFACTURING SIGNS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW~B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T030

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-56	36	36		R1-1	LT	NB	S SUTTON LN	0+70
S-57	60	42		D1-3 (MODIFIED)	RT	EB	KY 80	46+00
S-58	24	12		M3-1	RT	EB	KY 80	46+40
	24	24		M1-1				
	21	15		M6-3				
S-59	24	12		M3-3	RT	EB	KY 80	46+40
	24	24		M1-1				
	21	15		M6-1				
S-60	SIGN NOT USED							
S-61	24	12		M3-1	RT	EB	KY 80	48+00
	24	24		M1-1				
	21	15		M5-1				

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-62	24	36		ADOPT A HIGHWAY (NOTE: TO BE INSTALLED BY KYTC FORCES)	RT	EB	KY 80	48+50
S-63	60	30		D1-2 (MODIFIED)	RT	EB	KY 80	48+75
S-64	36	36		R1-1	LT	NB	KY80 RAMP A	711+00
S-65 S-66	54	18		R6-1R	LT	EB	KY80 RAMP A	711+00
					LT	WB	KY80 RAMP A	711+00
S-67	36	36		R5-1	LT	EB	KY80 RAMP A	711+00
S-68	36	36		R3-1	RT	EB	KY 80	51+85

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36"(THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T031

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-69	24	12		M3-1	RT	EB	KY 80	51+20
	24	24		M1-1				
	21	15		M6-1				
S-70 S-71	42	30		R5-1a	LT	SB	KY80 RAMP A	709+00
					RT	SB	KY80 RAMP A	709+00
S-72	72	30		D1-2	RT	NB	KY80 RAMP A	709+00
S-73	24	12		M3-4	RT	NB	KY80 RAMP A	711+00
	24	24		M1-5				
	21	15		M6-1				
S-74	24	12		M3-2	RT	NB	KY80 RAMP A	711+00
	24	24		M1-5				
	21	15		M6-1				
S-75	36	36		R1-1	RT	NB	KY80 RAMP A	711+50

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-76 S-77	54	18		R6-1R	RT	EB	KY80 RAMP A	711+50
					RT	WB	KY80 RAMP A	711+50
S-78	36	36		R5-1	RT	WB	KY80 RAMP A	711+50
S-79	30	36		R2-1	RT	EB	KY 80	54+00
S-80	48	48		W14-3	RT	WB	KY 80	56+20
S-81	48	8		D3-1	LT	NB/SB	PARKWAY DR ENTRANCE	0+30
S-82	42	8		D3-1	LT	EB/WB	PARKWAY DR ENTRANCE	0+30

SPECIAL NOTES:

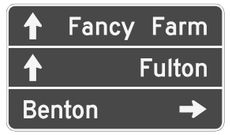
1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36' (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T032

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-83	36	36		R1-1	LT	NB	PARKWAY DR ENTRANCE	0+30
S-84	24	12		M3-2	RT	EB	KY 80	58+00
	24	12		M4-3				
	24	24		M1-5				
S-85	30	36		R2-1	RT	EB	KY 80	59+00
S-86	48	8		D3-1	LT	NB/SB	FAIRVIEW DR ENTRANCE	0+30
S-87	42	8		D3-1	LT	EB/WB	FAIRVIEW DR ENTRANCE	0+30
S-88	36	36		R1-1	LT	NB	FAIRVIEW DR ENTRANCE	0+30
S-89	30	36		R2-1	LT	WB	KY 80	60+30
S-90	21	15		M2-1	LT	WB	KY 80	59+00
	24	24		M1-1				
S-91	24	12		M3-3	LT	WB	KY 80	57+00
	24	24		M1-1				
	21	15		M6-3				
S-92	24	12		M3-1	LT	WB	KY 80	57+00
	24	24		M1-1				
	21	15		M5-2R				
S-93	72	42		D1-3 (MODIFIED)	LT	WB	KY 80	56+35
S-94	42	8		D3-1	LT	EB/WB	CORNELL ST ENTRANCE	0+45

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36"(THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T033

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-95	30	30		R1-1	LT	SB	CORNELL ST ENTRANCE	0+45
S-96	24	12		M3-3	LT	WB	KY 80	54+30
	24	24		M1-1				
	21	15		M6-3				
S-97	24	12		M3-1	LT	WB	KY 80	54+30
	24	24		M1-1				
	21	15		M6-2				
S-98	36	36		R3-1	LT	WB	KY 80	53+70
S-99	24	12		M3-3	LT	WB	KY 80	52+00
	24	24		M1-1				
	21	15		M5-1				
S-100	72	30		D1-2 (MODIFIED)	LT	WB	KY 80	51+45

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-101	36	36		R3-1	LT	WB	KY 80	48+80
S-102	36	36		R5-1	LT	WB	KY80 RAMP C	911+95
S-103 S-104	54	18		R6-1	LT	EB	KY80 RAMP C	911+95
					LT	WB	KY80 RAMP C	911+95
S-105	36	36		R1-1	LT	SB	KY80 RAMP C	911+95
S-106	36	36		R5-1	RT	EB	KY80 RAMP C	912+40
S-107 S-108	54	18		R6-1	RT	EB	KY80 RAMP C	912+40
					RT	WB	KY80 RAMP C	912+40

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW+B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew+b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T034

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-109	36	36		R1-1	RT	SB	KY80 RAMP C	912+40
S-110	24	12		M3-3	LT	WB	KY 80	47+30
	24	24		M1-1				
	21	15		M6-1				
S-111	36	36		R3-1	LT	EB	KY 80	47+00
S-112	36	8		D3-1	LT	EB/WB	N SUTTON LN	0+50
S-113	48	8		D3-1	LT	NB/SB	N SUTTON LN	0+50
S-114	36	36		R1-1	LT	SB	N SUTTON LN	0+50

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-115	66	36		D2-2	LT	WB	KY 80	44+00
				D2-2				
S-116	24	12		M3-4	LT	WB	KY 80	43+00
	24	24		M1-5				
S-117	24	12		M3-2	RT	SB	KY80 RAMP C	911+70
	24	24		M1-5				
	21	15		M6-1				
S-118	24	12		M3-4	RT	SB	KY80 RAMP C	911+70
	24	24		M1-5				
	21	15		M6-1				
S-119 S-120	42	30		R5-1a	RT	SB	KY80 RAMP C	911+00
					LT	SB	KY80 RAMP C	911+00
S-121	78	30		D1-2	RT	SB	KY80 RAMP C	909+00

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36"(THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T035

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-122 S-123	48	48		W3-1	RT	SB	KY80 RAMP C	908+00
					LT	SB	KY80 RAMP C	908+00
S-124	36	48	④ 	W13-3	RT	SB	KY80 RAMP C	906+00
S-126	48	60		R5-10a (MODIFIED)	RT	NB	KY80 RAMP B	802+00
S-127	48	60		R2-10 (MODIFIED)	RT	NB	KY80 RAMP B	804+00
S-128	48	48		W4-1	RT	NB	I-69	1170+50
S-129	36	48	④ 	W13-2	LT	SB	I-69	1176+00

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ①	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-130	48	60		R2-1	RT	NB	I-69	1183+00
S-131	36	18		M3-1	RT	NB	I-69	1186+00
	36	36		M1-1				
	36	18		M4-1 (MODIFIED)				
	36	36		PURCHASE PARKWAY				
S-132 S-133	48	48		W8-13 (MODIFIED)	RT	NB	US 45	511+00
					RT	SB	US45 RAMP C	412+00
S-134 S-135	12	36		D10-2	LT	SB	I-69	1149+50
					RT	NB	I-69	1149+50
S-136	72	36		M1-1 (MODIFIED) •SIGN IS REMOVE AND RELOCATE	LT	SB	PURCHASE PARKWAY	MP 20.09
S-137	30	30		W3-1	RT	WB	US 45 TIE-IN	603+00

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES). OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.
4. CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANFACTURING SIGNS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN
USER: andrew-b
DATE PLOTTED: June 26, 2015
E-SHEET NAME:
MicroStation v8.11.9.357

SHEETING SIGNS DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T036

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES HORIZ.	SIZES IN INCHES VERT.	MESSAGES ⓘ	SPECIFICATION	SIGN LOCATION SIDE OF ROAD	SIGN LOCATION FACING TRAFFIC TRAVELING	SIGN LOCATION ON ROAD	SIGN LOCATION AT STATION (APPROXIMATE)
S-138	30	30		R1-1	RT	WB	US 45 TIE-IN	606+15

SPECIAL NOTES:

1. THE COLORS SHALL BE AS SHOWN IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND 'STANDARD HIGHWAY SIGNS'.
2. SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 GAUGE MATERIAL IF ANY DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES), OTHERWISE 0.080 GAUGE SHALL BE USED.
3. SHEETING SIGNS SHALL BE MOUNTED ON TYPE I POST USING STANDARD INSTALLATION IN SOIL, WITH SOIL STABLIZER. SEE THE SHEETING SIGN DETAIL SHEETS.
4. CONTACT DISTRICT 1 DIVISION OF TRAFFIC BEFORE MANFACTURING SIGNS.

I-69/US 45 INTERCHANGE
SIGNING PLAN
SHEETING SIGN DETAIL SHEETS

MicroStation v8.11.9.357
E-SHEET NAME:
USER: andrew-b
DATE PLOTTED: June 26, 2015
FILE NAME: C:\PW_WORKDIR\ANDREW-B\DMS01404\T027 - T036 SHEETING SIGN DETAIL SHEETS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T037

POLE	MTG. HT.	LAMP WATTS	NO.	BASE DEPTH	LCE	CKT. NO.	DUCTED CABLE SIZE	LIGHT PATTERN	HOUSE SIDE SHIELD	REFRACTOR ORIENTATION	COORDINATES
HM1	120 FT	376	5	SEE T4	1	1	#4-3C	SYMMETRICAL TYPE V	120	281°	N=3437414.7230 E=4064553.2820
HM2	120 FT	376	5	SEE T4	1	2	#4-3C	SYMMETRICAL TYPE V	120	266°	N=3437404.5279 E=4065157.9804
HM3	120 FT	376	5	SEE T4	1	3	#4-3C	SYMMETRICAL TYPE V	120	81°	N=3437293.7140 E=4065775.3841
HM4	120 FT	376	5	SEE T4	1	4	#4-3C	SYMMETRICAL TYPE V	120	157°	N=3437508.3747 E=4066311.4135
HM5	120 FT	376	5	SEE T4	1	5	#4-3C	SYMMETRICAL TYPE V	120	177°	N=3436875.2120 E=4066350.3450
HM6	120 FT	376	4	SEE T4	1	6	#4-3C	SYMMETRICAL TYPE V	120	179°	N=3436245.8810 E=4066303.4470

CABLE	ORIGIN	ENDING	CONNECTING
#4-3C	DUCTED SERVICE #1	HM1	HM1 CKT #1
#4-3C	DUCTED SERVICE #1	HM2	HM2 CKT #2
#4-3C	DUCTED SERVICE #1	HM3	HM3 CKT #3
#4-3C	DUCTED SERVICE #1	HM4	HM4 CKT #4
#4-3C	DUCTED SERVICE #1	HM5	HM5 CKT #5
#4-3C	DUCTED SERVICE #1	HM6	HM6 CKT #6

NOTE:

HIGH MAST POLES SHALL BE PLACED AS CLOSE TO STATIONS AND OFFSETS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE LOCATED MORE THAN 20' FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

SYMMETRICAL TYPE V AREA WIDE LIGHT PATTERN

ORIENTATION (N 90, W 180, OE, 270 S)

REFRACTOR ORIENTATION (STREET SIDE, HOUSE SIDE)

1095+00 1100+00 1105+00 1110+00 1115+00 1119+00 415+00 520+00

SEE SHEET T9 MATCH LINE, STA. 1119+00

EXIST. CA R/W & FENCE

CKT 1 #4 DUCTED

INSTALL 3 RUNS OF 3" RIGID STEEL CONDUIT. ONE WILL BE A SPARE AND CAPPED ON BOTH ENDS.

CKT 2 #4 DUCTED

CKT 4 #4 DUCTED

CKT 1 #4 DUCTED
CKT 2 #4 DUCTED
CKT 3 #4 DUCTED

I-69 SB

I-69 NB

RAMP A

RAMP B

RAMP C

RAMP D

HM1

HM2

HM3

HM4

HM5

HM6

Conc. Dt.

15" BCCMP

24" BCCMP

515+00

CKT 3 #4 DUCTED

CKT 7 #4 DUCTED
CKT 8 #4 DUCTED
CKT 9 #4 DUCTED

Mayfield Corp. Limit

INSTALL 4 RUNS OF 3" RIGID STEEL CONDUIT.

210+00

CKT 1 #4 DUCTED
CKT 2 #4 DUCTED
CKT 3 #4 DUCTED
CKT 4 #4 DUCTED
CKT 7 #4 DUCTED
CKT 8 #4 DUCTED
CKT 9 #4 DUCTED

105+00 110+00 115+00 510+00

205+00

CKT 5 #4 DUCTED

1-181.50 CA R/W & FENCE

CKT 1 #4 DUCTED
CKT 2 #4 DUCTED
CKT 3 #4 DUCTED
CKT 4 #4 DUCTED
CKT 5 #4 DUCTED
CKT 7 #4 DUCTED
CKT 8 #4 DUCTED
CKT 9 #4 DUCTED

120+00

505+00

605+00

LCE-1

CKT 6 #4 DUCTED

125+00

SERVICE AREA #1 NEW UTILITY POLE WITH 480 V, SINGLE PHASE SERVICE. BASE MOUNTED LIGHTNG CONTROL CABINET.

US 45 BYPASS

MACEDONIA RD.

SCALE: 1"=100'

0' 100' 200' 400'

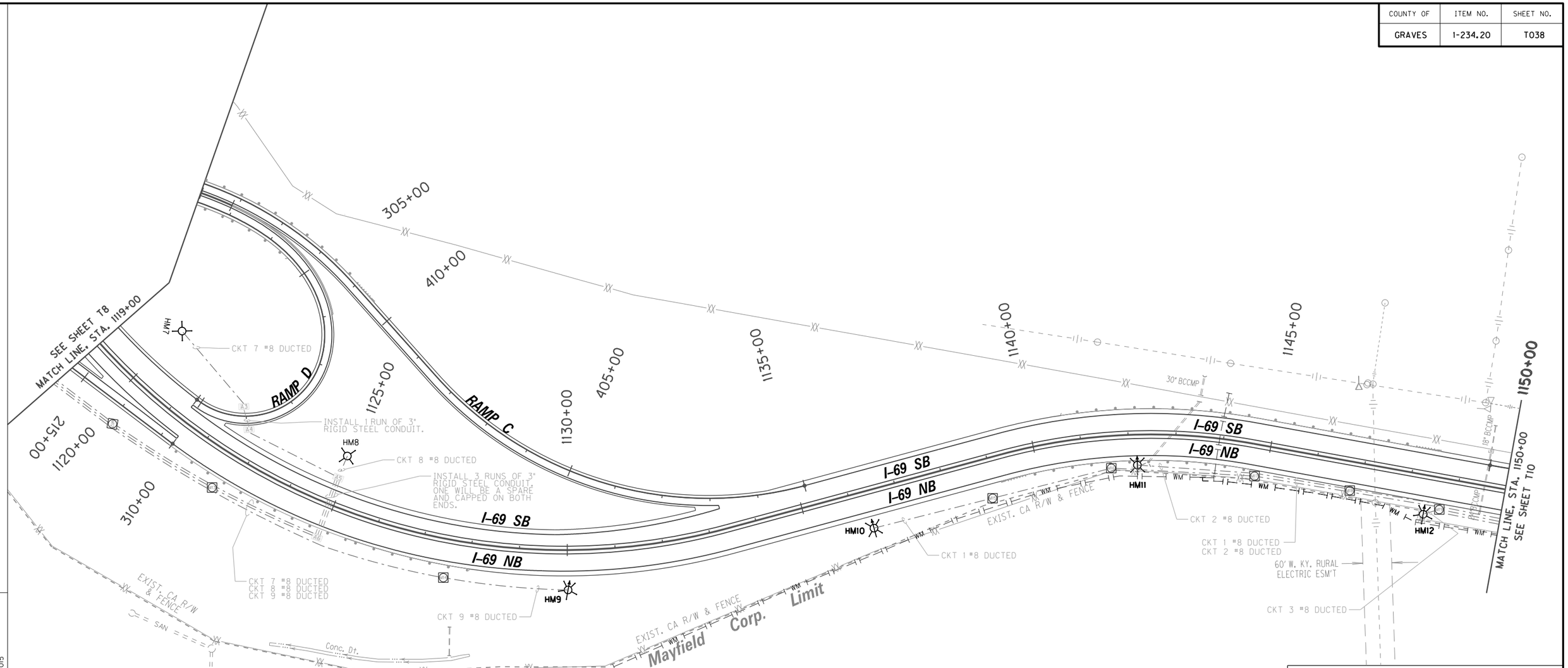
LEGEND

- LED LUMINAIRES MOUNTED ON HIGH MAST POLE
- BASE MOUNTED CABINET
- JUNCTION BOXES - TYPES A & C (AS DESIGNATED)
- CONCRETE MARKER
- 3" RIGID STEEL CONDUIT (UNLESS OTHERWISE NOTED)
- DUCTED CABLE
- NEW 35 FT. WOOD SERVICE POLE

LIGHTING PLAN
I-69/US-45 INTERCHANGE
STA. 1095+00 TO STA. 1119+00

FILE NAME: C:\PW_WORKDIR\RYAN-S\DMS26010\T00800LT.DGN
USER: ryan-s
DATE PLOTTED: July 31, 2015
E-SHEET NAME:
MicroStation v8.11.9.536

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T038



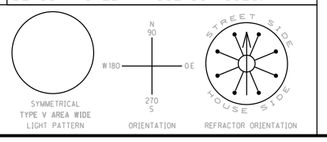
CABLE	ORIGIN	ENDING	CONNECTING
#4-3C	DUCTED SERVICE #1	HM7	HM7 CKT #7
#4-3C	DUCTED SERVICE #1	HM8	HM8 CKT #8
#4-3C	DUCTED SERVICE #1	HM9	HM9 CKT #9
#4-3C	DUCTED SERVICE #2	HM10	HM10 CKT #1
#4-3C	DUCTED SERVICE #2	HM11	HM11 CKT #2
#4-3C	DUCTED SERVICE #2	HM12	HM12 CKT #3

LEGEND

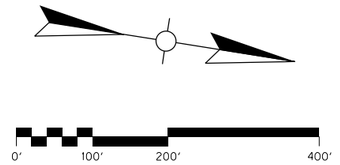
- LED LUMINAIRES MOUNTED ON HIGH MAST POLE
- BASE MOUNTED CABINET
- A9 — JUNCTION BOXES - TYPES A & C (AS DESIGNATED)
- MK — CONCRETE MARKER
- 3" RIGID STEEL CONDUIT (UNLESS OTHERWISE NOTED)
- DUCTED CABLE
- NEW 35 FT. WOOD SERVICE POLE

NOTE:

HIGH MAST POLES SHALL BE PLACED AS CLOSE TO STATIONS AND OFFSETS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE LOCATED MORE THAN 20' FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.



POLE	MTG. HT.	LAMP WATTS	NO.	BASE DEPTH	LCE	CKT. NO.	DUCTED CABLE SIZE	LIGHT PATTERN	HOUSE SIDE SHIELD	REFRACTOR ORIENTATION	COORDINATES
HM7	120 FT	500	4	SEE T4	1	7	#4-3C	SYMMETRICAL TYPE V	NONE	NONE	N=3437979.1230 E=4066472.5890
HM8	120 FT	500	4	SEE T4	1	8	#4-3C	SYMMETRICAL TYPE V	NONE	NONE	N=3438361.0920 E=4066676.4100
HM9	120 FT	376	5	SEE T4	1	9	#4-3C	SYMMETRICAL TYPE V	120	80°	N=3438860.4760 E=4066880.4850
HM10	120 FT	376	4	SEE T4	2	1	#4-3C	SYMMETRICAL TYPE V	120	105°	N=3439471.5200 E=4066652.8200
HM11	120 FT	376	4	SEE T4	2	2	#4-3C	SYMMETRICAL TYPE V	120	92°	N=3439994.5700 E=4066436.5820
HM12	120 FT	376	5	SEE T4	2	3	#4-3C	SYMMETRICAL TYPE V	120	80°	N=3440600.4820 E=4066444.4860



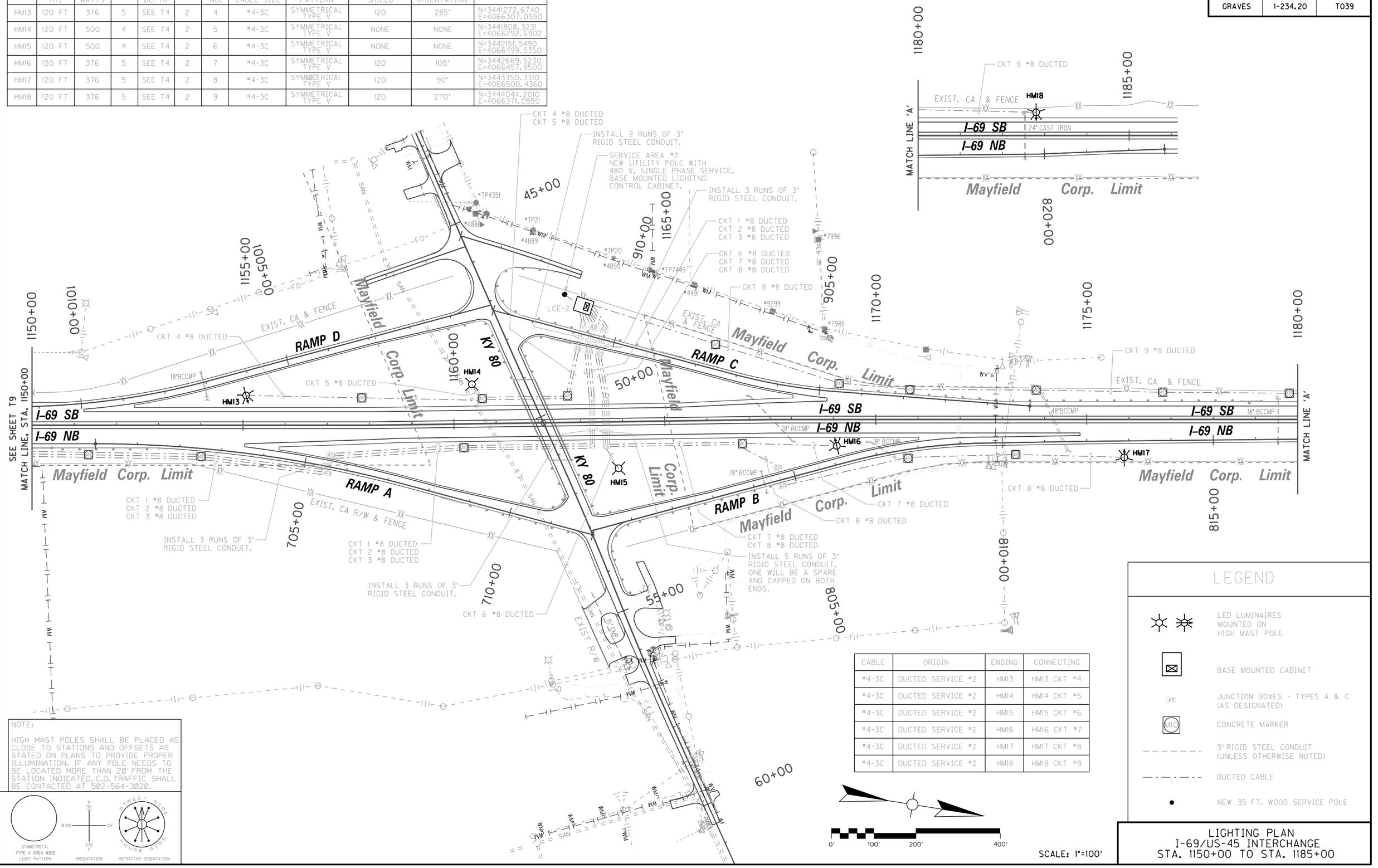
SCALE: 1"=100'

LIGHTING PLAN
I-69/US-45 INTERCHANGE
STA. 1119+00 TO STA. 1150+00

FILE NAME: C:\PW_WORKDIR\RYAN-SVDMS26010\T00900LT.DGN
USER: BE-Bea
DATE PLOTTED: March 18, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

POLE	MTG. HT.	LAMP WATTS	NO.	BASE DEPTH	LCE	CKT. NO.	DUCTED CABLE SIZE	LIGHT PATTERN	HOUSE SIDE SHIELD	REFRACTOR ORIENTATION	COORDINATES
HM13	120 FT	376	5	SEE T4	2	4	#4-3C	SYMMETRICAL TYPE V	120	285°	N=3441272.6740 E=4066307.0550
HM14	120 FT	500	4	SEE T4	2	5	#4-3C	SYMMETRICAL TYPE V	NONE	NONE	N=3441808.3231 E=4066292.6902
HM15	120 FT	500	4	SEE T4	2	6	#4-3C	SYMMETRICAL TYPE V	NONE	NONE	N=3442151.5490 E=4066499.5350
HM16	120 FT	376	5	SEE T4	2	7	#4-3C	SYMMETRICAL TYPE V	120	105°	N=3442669.5230 E=4066457.9500
HM17	120 FT	376	5	SEE T4	2	8	#4-3C	SYMMETRICAL TYPE V	120	90°	N=3443350.3310 E=4066500.4360
HM18	120 FT	376	5	SEE T4	2	9	#4-3C	SYMMETRICAL TYPE V	120	270°	N=3444044.2010 E=4066371.0550

COUNTY OF	ITEM NO.	SHEET NO.
GRAVES	1-234.20	T039



CABLE	ORIGIN	ENDING	CONNECTING
#4-3C	DUCTED SERVICE #2	HM13	HM13 CKT #4
#4-3C	DUCTED SERVICE #2	HM14	HM14 CKT #5
#4-3C	DUCTED SERVICE #2	HM15	HM15 CKT #6
#4-3C	DUCTED SERVICE #2	HM16	HM16 CKT #7
#4-3C	DUCTED SERVICE #2	HM17	HM17 CKT #8
#4-3C	DUCTED SERVICE #2	HM18	HM18 CKT #9

NOTE:

HIGH MAST POLES SHALL BE PLACED AS CLOSE TO STATIONS AND OFFSETS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE LOCATED MORE THAN 20' FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

SYMMETRICAL TYPE V AREA WIDE LIGHT PATTERN

ORIENTATION

REFRACTOR ORIENTATION

LEGEND

- LED LUMINAIRES MOUNTED ON HIGH MAST POLE
- BASE MOUNTED CABINET
- JUNCTION BOXES - TYPES A & C (AS DESIGNATED)
- CONCRETE MARKER
- 3" RIGID STEEL CONDUIT (UNLESS OTHERWISE NOTED)
- DUCTED CABLE
- NEW 35 FT. WOOD SERVICE POLE

0' 100' 200' 400'

SCALE: 1"=100'

LIGHTING PLAN
I-69/US-45 INTERCHANGE
STA. 1150+00 TO STA. 1185+00

MicroStation v8.11.7.443
E-SHEET NAME:
USER: BE-Beg
DATE PLOTTED: March 18, 2015
FILE NAME: C:\PW_WORKDIR\RYAN-SDMS26010\T01000LT.DGN