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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

December 4, 2015

CALL NO. 319
CONTRACT ID NO. 151093
ADDENDUM # 2

Subject: Floyd County, FD04 SPP 036 0680 NEW LOC
Letting December 11, 2015

(1) Revised - Plan Sheets - R2C, R2E, R4 THROUGH R22
R68, R74 THROUGH R79
(2) Revised - Plan Sheets - All Cross Section revisions:
will be available at Lynn Imaging
(3) Revised - Bid Items - Pages 101-104 of 104

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

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

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

Sincerely,

Rachel Mills

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R2C

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE								PROJECT TOTAL							
2545	CLEARING & GRUBBING ①	LP SUM	1								1							
2200	ROADWAY EXCAVATION ②	CU YD	6255975								6255975							
2242	WATER ③	M GAL	100								100							
2351	GUARDRAIL- STEEL W BEAM-S FACE	LIN FT	13337.5								13337.5							
2360	GUARDRAIL TERMINAL SECTION NO 1	EACH	32								32							
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	5								5							
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH	5								5							
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH	4								4							
2488	CHANNEL LINING CLASS IV ④	CU YD	36332								36332							
2568	MOBILIZATION	LP SUM	1								1							
2569	DEMOBILIZATION	LP SUM	1								1							
2650	MAINTAIN & CONTROL TRAFFIC	LP SUM	1								1							
2726	STAKING	LP SUM	1								1							
2562	TEMPORARY SIGNS	SQ FT	509.5								509.5							
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	133								133							
2432	WITNESS POST	EACH	133								133							
20458ES	403 CENTERLINE RUMBLE STRIPS	LIN FT	13952								13952							
5950	EROSION CONTROL BLANKET	SQ YD	9832								9832							
6510	PAVE STRIPING - TEMP PAINT 4-IN	LIN FT	10000								10000							
6514	PAVE STRIPING - PERM PAINT 4-IN	LIN FT	56603								56603							
20667ED	PNEUMATIC BACKSTOWING	TON	4000								4000							
1010	NON-PERFORATED PIPE 4 IN ⑥	LIN FT	4000								4000							
5985	SEEDING AND PROTECTION	SQ YD	581000								581000							
5953	TEMP SEEDING AND PROTECTION	SQ YD	290500								290500							
5963	INITIAL FERTILIZER	TON	18								18							
5964	20-10-10 FERTILIZER	TON	30								30							
5992	AGRICULTURAL LIMESTONE	TON	360								360							
5952	TEMPORARY MULCH	SQ YD	290500								290500							
2159	TEMPORARY DITCH	LIN FT	7164								7164							
2703	SILT TRAP TYPE A	EACH	158								158							
2706	CLEAN SILT TRAP TYPE A	EACH	158								158							
2704	SILT TRAP TYPE B	EACH	158								158							
2707	CLEAN SILT TRAP TYPE B	EACH	158								158							
2705	SILT TRAP TYPE C	EACH	158								158							
2708	CLEAN SILT TRAP TYPE C	EACH	158								158							
2701	TEMP SILT FENCE	LIN FT	7164								7164							
1890	ISLAND HEADER CURB TYPE 1	LIN FT	100								100							
1987	DELINEATOR FOR GUARDRAIL B/W	EACH	87								87							
6591	PAVEMENT MARKER TYPE V-BY	EACH	348								348							
6589	PAVEMENT MARKER TYPE V-MW	EACH	171								171							
2696	SHOULDER RUMBLE STRIPS - SAWED	LIN FT	27904								27904							
0078	CRUSHED AGGREGATE SIZE NO. 2 ⑤	TON	107								107							
10020NS	FUEL ADJUSTMENT	DOLL	1154442								1154442							
10030NS	ASPHALT ADJUSTMENT	DOLL	138529								138529							
2585	EDGE KEY	LIN FT	167								167							
20071EC	JOINT ADHESIVE	LIN FT	56628								56628							
24843EC	VIBRATING WIRE PIEZOMETER	EACH	6								6							
2160	CLEAN TEMP DITCH	LIN FT	3582								3582							
24846EC	GABION MATTRESS DITCH ⑧	TONS	2395								2395							
2596	FABRIC - GEOTEXTILE TYPE I	SQ YD	3883								3883							

① AREA IS APPROXIMATELY 98 ACRES.

② INCLUDES 6803 CU YD FROM DRAINAGE SUMMARY, 43,590 CU YD FROM EMBANKMENT BENCHING, 55,5943 CU YD FROM BENCHING ROCK AND 113,798 CU YD FROM TRANSVERSE BENCHING.

③ FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY

④ INCLUDES 9356 CU.YDS. FROM DRAINAGE SUMMARY

⑤ INCLUDES 7 TONS FOR USE WITH PERFORATED PIPE HEADWALLS AND 100 TONS CARRIED OVER FROM THE PAVING SUMMARY

⑥ FOR DRAINING BACKSTOWED MINE OPENINGS

⑦ TRANSVERSE BENCHING OVERLAPS EMBANKMENT BENCHING IN MANY LOCATIONS. FOR THESE OVERLAP LOCATIONS, THE EMBANKMENT BENCHING COVERS THE EXCAVATION QUANTITY, WITH THE EXCEPTION OF THE TOP BENCH WHICH IS INCLUDED IN THE TRANSVERSE BENCHING QUANTITY.

⑧ INCLUDES 237 TONS FROM DRAINAGE SUMMARY.

TOTAL PROJECT EARTHWORK

1,462,553 COMMON
4,604,809 ROCK
24,422 DITCHES
113,798 TRANSVERSE BENCHING
6,604,983 EMBANKMENT
43,590 EMBANKMENT BENCHING
55,943 BENCHING IN ROCK
73,603 ROCK ROADBED

ALL EARTHWORK QUANTITIES ARE FOR DESIGN PURPOSES ONLY

GENERAL SUMMARY

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.IE\JWOLFPEN\2012 PLAN SET\GENSUM.DGN
USER: Larry
DATE PLOTTED: June 26, 2012
E-SHEET NAME:
MicroStation v8.5.2.35

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R2C

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	PROJECT TOTAL
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2360	GUARDRAIL TERMINAL SECTION NO 1	EACH	32	32
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	5	5
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2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH	4	4
2488	CHANNEL LINING CLASS IV ④	CU YD	36332	36332
2568	MOBILIZATION	LP SUM	1	1
2569	DEMOBILIZATION	LP SUM	1	1
2650	MAINTAIN & CONTROL TRAFFIC	LP SUM	1	1
2726	STAKING	LP SUM	1	1
2562	TEMPORARY SIGNS	SQ FT	509.5	509.5
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	133	133
2432	WITNESS POST	EACH	133	133
20458ES403	CENTERLINE RUMBLE STRIPS	LIN FT	13952	13952
5950	EROSION CONTROL BLANKET	SQ YD	9832	9832
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2704	SILT TRAP TYPE B	EACH	158	158
2707	CLEAN SILT TRAP TYPE B	EACH	158	158
2705	SILT TRAP TYPE C	EACH	158	158
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24843EC	VIBRATING WIRE PIEZOMETER	EACH	6	6
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TOTAL PROJECT EARTHWORK

1,462,553	COMMON
4,604,809	ROCK
24,422	DITCHES
113,798	TRANSVERSE BENCHING
6,604,983	EMBANKMENT
43,590	EMBANKMENT BENCHING
55,943	BENCHING IN ROCK
73,603	ROCK ROADBED

ALL EARTHWORK QUANTITIES ARE FOR DESIGN PURPOSES ONLY

GENERAL SUMMARY

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.IE\UNWOLFPEN\2012 PLAN SET\GENSUM.DGN
USER: Larry
DATE PLOTTED: June 26, 2012
E-SHEET NAME:
MicroStation v8.5.2.35

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R2E

PIPE DRAINAGE SUMMARY

SHEET NO.		SKEW	DESIGN pH LEVEL	COVER HEIGHT		CULVERT PIPE 18"	CULVERT PIPE 24"	CULVERT PIPE 30"	CULVERT PIPE 36"	CULVERT PIPE 48"	CULVERT PIPE 60"	STORM SEWER PIPE 18"	STORM SEWER PIPE 24"	STORM SEWER PIPE 30"	ENTRANCE PIPE 15"	ENTRANCE PIPE 18"	ENTRANCE PIPE 30"	ENTRANCE PIPE 48" 2157ED	PERFORATED PIPE 8"	NON-PERFORATED PIPE 8" ②	PERF. PIPE HEADWALL TY 1-8"	PERF. PIPE HEADWALL TY 3-8"	SLOPED & FLARED BOX INLET - OUTLET 24"	SLOPED & FLARED BOX INLET - OUTLET 30"	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	METAL END SECTION TY 1-30 IN	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	PIPE CULVERT HEADWALL 60 IN	PIPELINE INSPECTION 24814EC	CHANNEL LINING CLASS IA	GABION MATRESS DITCH ① 24846EC	FABRIC GEOTEXTILE ③ TY 1V FOR PIPE	CHANNEL LINING CLASS IV ①	DITCH EXCAVATION ①	REMARKS
ITEM CODE						462	464	466	468	470	472	522	524	526	440	441	445	21257ED	1002	1012	1022	1030	1451	1452	1490	1493	1505	1374	1204	1208	1210	1212	1216	1220	24814EC	2482	24846EC	2600	2488	2200	
UNIT TO BID ON				FT.		LIN. FT.															EACH															TON	CY				
R63	248+76	0°	M	4.1		214								90												1		1									644		160	
R64	256+00	0°	M	7.1																						1				1					160	335	15	245	
R64	258+66.87	33°47'44"RT	M	5.3								91	239													2											272		230	
R65	262+58	0°	M	6.4			100																1		1												336	94	665	
R66	266+50	0°	M	6.4				100																1		1												372	48	3954	
R67	276+00	0°	M	11.5		111																			1				1								253	41	408	
R68	280+50	0°	M	36.8					244																						2						718	2946	119	
R69	286+50	0°	M	19.5				152																		1				1						414	3029		
R70	302+39	20° LT	M	11.6			128																		1				1						320	334	57	
R71	307+00	0°	M	26.4			241																		2										603	309		
R72	311+00	0°	M	21.5				201																1					1							547	494		
R73	319+38	30° RT	M	9.2				99																1					1					456		270	137	232	
R74	341+65	30° LT	M	54.4							446																					2			77	2353			
R75	352+50	0°	M	55.2					272																					2						801	39		
R76	356+50	0°	M	54.2				268																					2							730	55		
R77	369+00	0°	M	31.7						178																					2						682	883		
R78	374+00	0°	M	20.8				135																					2							368	185		
R79	379+00	0°	M	13.6				112																1					1							305	583		
R80	383+00	0°	M	7.0			95																			1										319	164	733	
	SUBTOTAL					325	564	1067	516	289	446	91	239	90									1	4	4	3	3		2	4	9	4	2	2		456	237	10642	9356	6803	
	ENTRANCES														83	65	59	279										1	2				4							
	TRANSVERSE BENCHING DRAINS																		508	283	3	4																		
	EDGE DRAINS																																								
	PROJECT TOTALS					325	564	1067	516	289	446	91	239	90	83	65	59	279	508	283	3	4	1	4	4	3	3	1	4	4	9	4	6	2	3795	456	237	10642	9356	6803	

MAINLINE

MISCELLANEOUS

① TOTALS FOR THESE ITEMS ARE CARRIED OVER AND INCLUDED IN THE GENERAL SUMMARY
② SHALL BE SAME ALTERNATE AS PERFORATED PIPE
③ FOR WRAPPING PIPE TRENCH BACKFILL

PIPE DRAINAGE SUMMARY

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESUM.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R2E

PIPE DRAINAGE SUMMARY

SHEET NO.		SKEW	DESIGN pH LEVEL	COVER HEIGHT		CULVERT PIPE 18"	CULVERT PIPE 24"	CULVERT PIPE 30"	CULVERT PIPE 36"	CULVERT PIPE 48"	CULVERT PIPE 60"	STORM SEWER PIPE 18"	STORM SEWER PIPE 24"	STORM SEWER PIPE 30"	ENTRANCE PIPE 15"	ENTRANCE PIPE 18"	ENTRANCE PIPE 30"	ENTRANCE PIPE 48" 2157ED	PERFORATED PIPE 8"	NON-PERFORATED PIPE 8" ②	PERF. PIPE HEADWALL TY 1-8"	PERF. PIPE HEADWALL TY 3-8"	SLOPED & FLARED BOX INLET - OUTLET 24"	SLOPED & FLARED BOX INLET - OUTLET 30"	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 2	DROP BOX INLET TYPE 5B	METAL END SECTION TY 1-30 IN	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	PIPE CULVERT HEADWALL 60 IN	PIPELINE INSPECTION 24814EC	CHANNEL LINING CLASS IA	GABION MATRESS DITCH ① 24846EC	FABRIC GEOTEXTILE TY 1V FOR PIPE ③	CHANNEL LINING CLASS IV ①	DITCH EXCAVATION ①	REMARKS
ITEM CODE						462	464	466	468	470	472	522	524	526	440	441	445	2157ED	1002	1012	1022	1030	1451	1452	1490	1493	1505	1374	1204	1208	1210	1212	1216	1220	24814EC	2482	24846EC	2600	2488	2200	
UNIT TO BID ON				FT.		LIN. FT.															EACH															TON	CY				
																					MAINLINE																				
R63	248+76	0°	M	4.1		214																				1		1									644		160	
R64	256+00	0°	M	7.1										90												1				1					160	335	15	245	
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R65	262+58	0°	M	6.4			100																1		1											336	94	665	
R66	266+50	0°	M	6.4				100																1		1										372	48	3954	
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① TOTALS FOR THESE ITEMS ARE CARRIED OVER AND INCLUDED IN THE GENERAL SUMMARY
② SHALL BE SAME ALTERNATE AS PERFORATED PIPE
③ FOR WRAPPING PIPE TRENCH BACKFILL

PIPE DRAINAGE SUMMARY

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESUM.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

DATUM

SCALE: 1"=50' HORIZ.
1"=10' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R4

DATUM

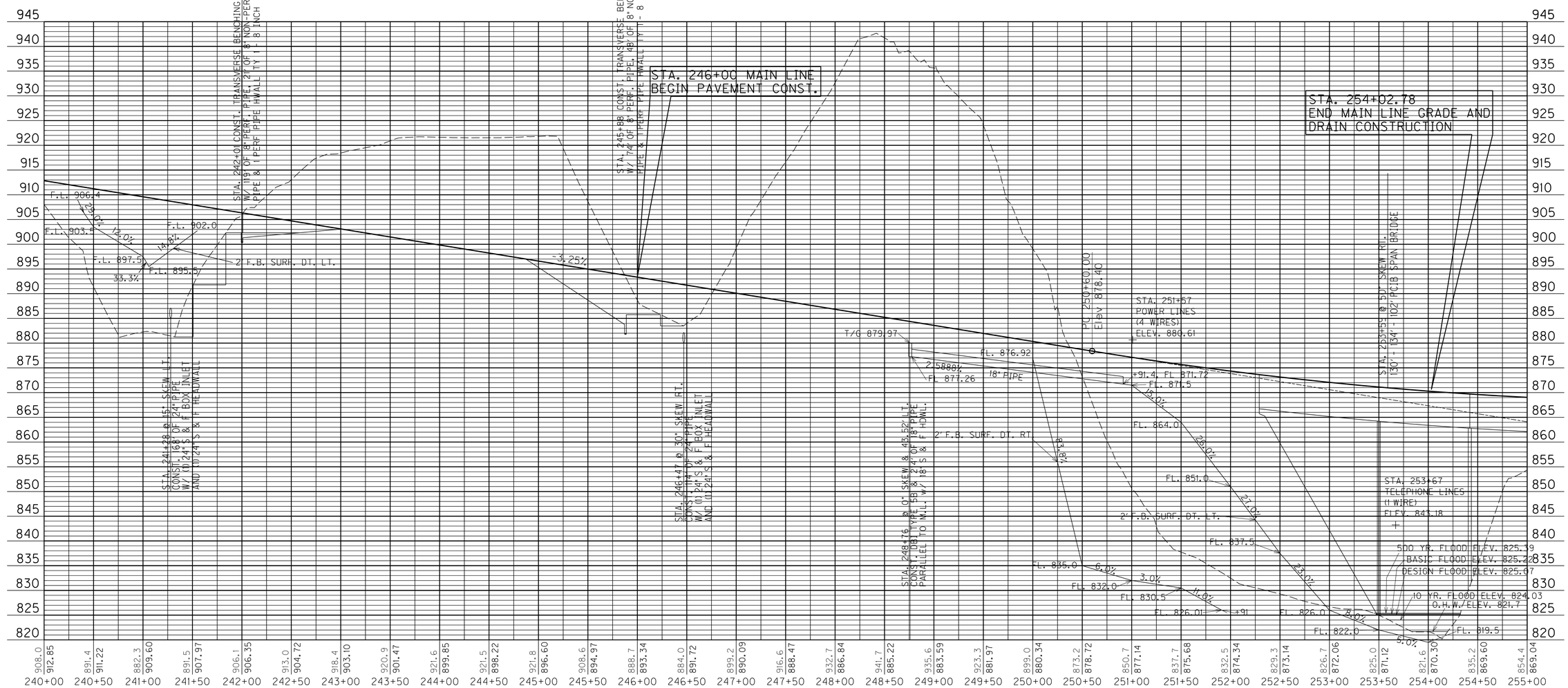
MI3 is located +/- 0.3 mile south of the intersection of Lower Wolfpen Branch Road and Little Mud Creek Road and is on the west side of Little Mud Creek Road at the southwest corner of a corn field. The mark is a concrete monument with an aluminum disk and is set flush with the ground.
171.1' Rt. of M.L. Sta. 250+09

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

SHEET TOTALS

COM	ROCK	EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
1,650	0	0	0	0	0	0



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	2.6	880.22•
CHECK	100	3.7	880.27•

•GRATE CONTROL

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	50	1173	825.15
CHECK	100	1391	825.51

PROFILE STA. 240+00 - STA. 255+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02000PF 20.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

DATUM

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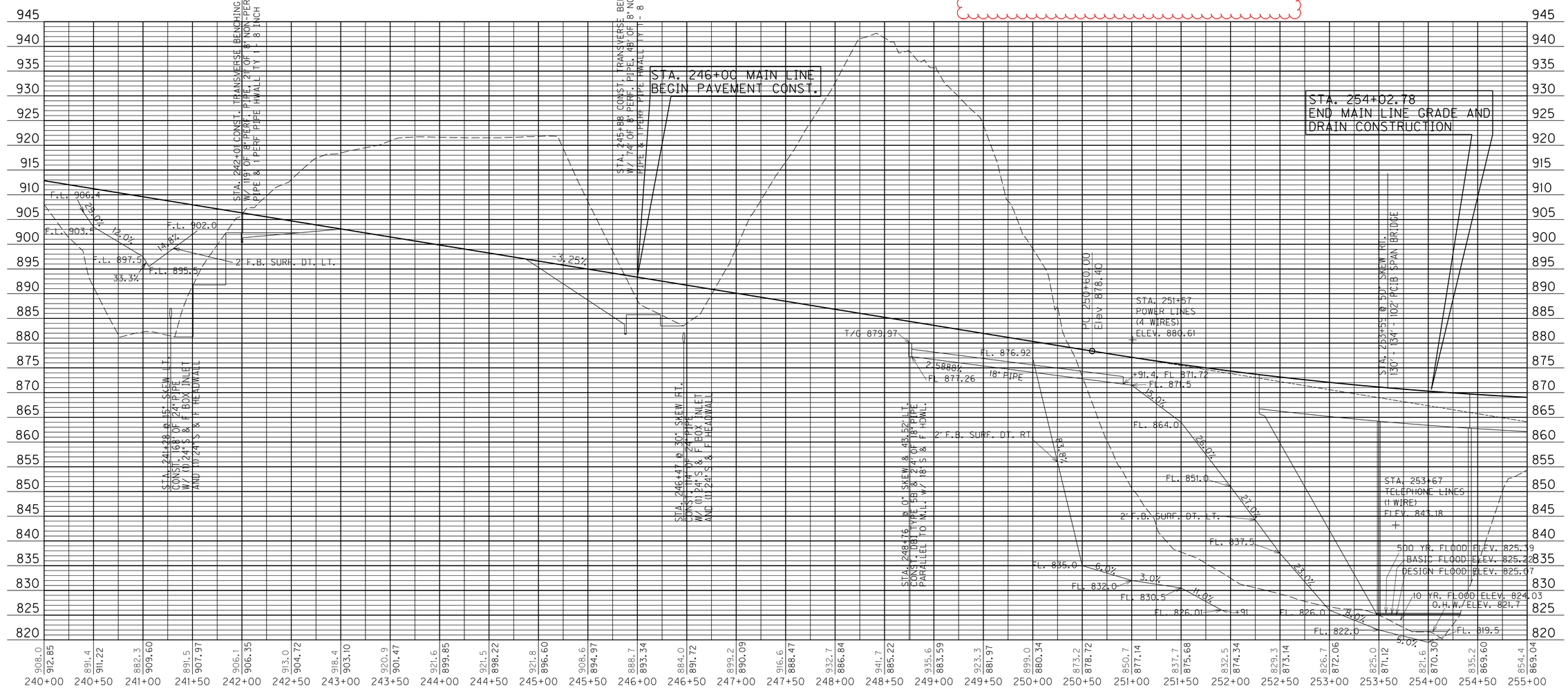
SHEET TOTALS

COM	ROCK	EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
1,650	0	0	0	0	0	0



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	2.6	880.22•
CHECK	100	3.7	880.27•

•GRATE CONTROL

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	50	1173	825.15
CHECK	100	1391	825.51

PROFILE STA. 240+00 - STA. 255+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02000PF 20.DGN
USER: Lisa
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MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R5

MATCH LINE STA. 255+00

MATCH LINE STA. 270+00

F-BARN
F-SHED
TRAILER
TRAILER
GRAVEL
N. N. V. T.
POLE #44-84
LITTLE MUD CR. RD.
GAS
I S-F RES
F-SHED
F-SHED
GRAVEL
NO. 44-22
N 05°28' W 151.56
LITTLE MUD CR.
N 05°23' E 89.53
N 75°35' W 61.71
18.1
6' F.B. GABION OUTLET DT.
OE 857.8
8" PERF. PIPE
V BOT. SPCL. RDWY. DT.
30" PIPE
24" PIPE
8" NON-PERF. PIPE
DBI TYPE 2
T/G 863.27
IE 859.47
2' F.B. SURF. DT.
STA. 257+75
BEGIN TRUCK LANE TAPER RT.
DBI TYPE 5B
T/G 864.97
IE 862.26
18" PIPE
DBI TYPE 5B
T/G 864.97
IE 862.26
N32° 21'39"E
S 66°40'33" E 276.01'
STA. 260+75
BEGIN TRUCK LANE RT.
S 53°37'16" E 44.34'
S 56°44'34" E 189.77'
S 54°25'37" E 57.51'
S 53°47'30" W 34.26'
UNPAVED STRIP MINE ROAD
P200
TRACT A
P200
TRACY NEECE
STACY " (WF)
P201
BOBBY LAWSON
ZELMA " (WF)
P201
TRACT A
P202
THOMAS NEIL KIDD
260+00
265+00
N 35°34'39" E 138.41'
Proposed R/W 61.59'
N 35°34'39" E 323.43'
200.00'
61.84'
200.00'
N 43°43'22" E 252.41'
52.41'
200.00'
200.00'
N 17°28'51" E 533.94'
Proposed R/W 133.94'
N 17°28'51" E 79.01'
POND
2" F.B. OUTLET DT.
3' F.B. OUTLET DT.
OE 866.5
2" STEEL COLUMBIA
OE 881.20
30" PIPE
24" PIPE
DBI TYPE 1
T/G 872.17
IE 868.47
DBI TYPE 2
T/G 887.32
IE 883.16
TS 268+51.88
GAS LINE MARKER
4" STEEL COLUMBIA
200.00'
Proposed R/W
S 53°47'30" W 163.72'
200.00'
163.72'
200.00'
200.00'
Proposed R/W
S 40°27'40" W 865.52'
200.00'
200.00'
65.52'
S 30°12'07" W 136.05'
PI STA 279+43.58
Δ= 74° 20'18" RT
C= 1701.69'
Ts= 1091.70'
Ls= 210.00'
Lc= 1476.68'
θs= 4° 37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 242.11'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		256+00 PIPE OUTLET	GABION •	208 TONS	1.5'	3.0'	6' FB
X		256+00 TO 258+10	ROCK CUT	-	-	-	V
X		262+58 PIPE OUTLET	CLASS IV	94 CU.YDS.	1.0'	2.0'	2' FB
X		266+50 PIPE OUTLET	CLASS IV	48 CU.YDS.	1.0'	2.0'	3' FB
	X	255+50 TO 257+60	ROCK CUT	-	-	-	V
	X	256+00 PIPE INLET	CLASS IV	15 CU.YDS.	1.0'	2.0'	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 0.20'

STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	255+31.15 TO 257+81.15	250.0'			1		1
LT.	255+78.82 TO 258+28.82	250.0'			1		1
RT.	256+14 (BARRIER)	12.5'	2				
RT.	256+65 (BARRIER)	12.5'	2				
LT.	268+90 (BARRIER)	12.5'	2				

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 255+00 - STA. 270+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO2100PL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R5

MATCH LINE STA. 255+00

MATCH LINE STA. 270+00

F-BARN
F-SHED
TRAILER
TRAILER
GRAVEL
N. N. V. T.
POLE #44-84
LITTLE MUD CR. RD.
GAS
I S-F RES
F-SHED
F-SHED
GRAVEL
NO. 44-22
N 05°28' W 151.56'
LITTLE MUD CR.
N 05°23' E 89.53'
N 75°35' W 61.71'
18.1'
6' F.B. GABION OUTLET DT.
OE 857.8
8" PERF. PIPE
V BOT. SPCL. RDWY. DT.
30" PIPE
24" PIPE
8" NON-PERF. PIPE
DBI TYPE 2
T/G 863.27
IE 859.47
2' F.B. SURF. DT.
STA. 257+75
BEGIN TRUCK LANE TAPER RT.
DBI TYPE 5B
T/G 864.97
IE 862.26
18" PIPE
DBI TYPE 5B
T/G 864.97
IE 862.26
N32° 21'39"E
260+00
N 35°34'39" E 138.41'
Proposed R/W
61.59'
N 35°34'39" E 323.43'
200.00'
61.84'
200.00'
N 43°43'22" E 252.41'
52.41'
200.00'
265+00
POND
200.00'
N 17°28'51" E 533.94'
Proposed R/W
133.94'
N 17°28'51" E 79.01'
P202
THOMAS NEIL KIDD
2' F.B. OUTLET DT.
3' F.B. OUTLET DT.
OE 866.5
OE 881.20
2" STEEL COLUMBIA
P26
P26
9889.6
24" PIPE
30" PIPE
DBI TYPE 1
T/G 872.17
IE 868.47
DBI TYPE 2
T/G 887.32
IE 883.16
UNPAVED STRIP MINE ROAD
P201
TRACT A
TS 268+51.88
S 66°40'33" E 276.01'
STA. 260+75
BEGIN TRUCK LANE RT.
S 53°37'16" E 44.34'
S 56°44'34" E 189.77'
S 54°25'37" E 57.51'
S 53°47'30" W 34.26'
P200
TRACT A
UNPAVED STRIP MINE ROAD
200.00'
Proposed R/W
S 53°47'30" W 163.72'
200.00'
163.72'
200.00'
Proposed R/W
S 40°27'40" W 865.52'
200.00'
200.00'
65.52'
S 30°12'07" W 136.05'
GASLINE MARKER
4" STEEL COLUMBIA
P200
TRACY NEECE
STACY " (WF)
P201
BOBBY LAWSON
ZELMA " (WF)

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

PI STA 279+43.58
Δ= 74° 20'18" RT
C= 1701.69'
Ts= 1091.70'
Ls= 210.00'
Lc= 1476.68'
θs= 4° 37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 242.11'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		256+00 PIPE OUTLET	GABION •	208 TONS	1.5'	3.0'	6' FB
X		256+00 TO 258+10	ROCK CUT	-	-	-	V
X		262+58 PIPE OUTLET	CLASS IV	94 CU.YDS.	1.0'	2.0'	2' FB
X		266+50 PIPE OUTLET	CLASS IV	48 CU.YDS.	1.0'	2.0'	3' FB
	X	255+50 TO 257+60	ROCK CUT	-	-	-	V
	X	256+00 PIPE INLET	CLASS IV	15 CU.YDS.	1.0'	2.0'	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 0.20'

STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	255+31.15 TO 257+81.15	250.0'			1		1
LT.	255+78.82 TO 258+28.82	250.0'			1		1
RT.	256+14 (BARRIER)	12.5'	2				
RT.	256+65 (BARRIER)	12.5'	2				
LT.	268+90 (BARRIER)	12.5'	2				

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 255+00 - STA. 270+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO2100PL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R6

SCALE: 1"=50′ HORIZ.
1"=10′ VERT.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
433,301	1,219,417	0	0	8,251	0	0	0

DATUM

P26 is located on the west side of an old strip mine road. From the intersection of Little Mud Creek Road and Lower Wolfpen Branch Road, go north on Little Mud Creek Road for +/- 650 feet to the first strip mine road on the right. Travel southeast for +/- 0.3 mile to a sharp turn and then northwest for +/- 750 feet to a "Y" intersection. Go left for +/- 1100 feet to the station on the right. The mark is an iron pin.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	6.0	863.67*
CHECK	100	8.5	863.77*

*GRATE CONTROL

FLOOD DATA (DBI LEFT)

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	3.1	865.27*
CHECK	100	4.3	865.32*

*GRATE CONTROL

FLOOD DATA (DBI RIGHT)

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	10.5	865.06*
CHECK	100	15.1	865.26*

*GRATE CONTROL

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	12.0	872.92*
CHECK	100	17.2	873.07*

*GRATE CONTROL

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	20.6	888.32*
CHECK	100	29.4	888.62*

*GRATE CONTROL

FILE NAME: X:\HIGHWAYS\PROJECTS\12301_2E\2013\R02200PF.DGN

USER: Lisa
DATE PLOTTED: December 2, 2015

E-SHEET NAME:

MicroStation v8.11.9.608

PROFILE STA. 255+00 - STA. 270+00

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R6

DATUM

P26 is located on the west side of an old strip mine road. From the intersection of Little Mud Creek Road and Lower Wolfpen Branch Road, go north on Little Mud Creek Road for +/- 650 feet to the first strip mine road on the right. Travel southeast for +/- 0.3 mile to a sharp turn and then northwest for +/- 750 feet to a "Y" intersection. Go left for +/- 1100 feet to the station on the right. The mark is an iron pin.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
433,301	1,219,417	0	0	8,251	0	0	0

SCALE: 1"=50' HORIZ.
1"=10' VERT.

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	6.0	863.67*
CHECK	100	8.5	863.77*

*GRATE CONTROL

FLOOD DATA (DBI LEFT)

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	3.1	865.27*
CHECK	100	4.3	865.32*

*GRATE CONTROL

FLOOD DATA (DBI RIGHT)

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	10.5	865.06*
CHECK	100	15.1	865.26*

*GRATE CONTROL

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	12.0	872.92*
CHECK	100	17.2	873.07*

*GRATE CONTROL

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	20.6	888.32*
CHECK	100	29.4	888.62*

*GRATE CONTROL

DATUM

FILE NAME: X:\HIGHWAYS\PROJECTS\12301_2E\2013\R02200PF.DGN

USER: Lisa
DATE PLOTTED: December 2, 2015

E-SHEET NAME:

MicroStation v8.11.9.608

PROFILE STA. 255+00 - STA. 270+00

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R7

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK- NESS	DITCH
X		276+00 PIPE OUTLET	CLASS IV	41 C.Y.	1.0'	2.0'	2' FB
X		280+50 PIPE OUTLET	CLASS IV*	2561 C.Y.	2.0'	20'	R.B.
X		280+50 PIPE OUTLET	CLASS IV	130 C.Y.	2.0'	2.0'	4' FB
X		281+22 TO 284+00	CLASS IV	640 C.Y.	3.0'	2.0'	6' FB
X		284+00 TO 285+00	CLASS IV**	329 C.Y.	2.0'	4.0'	6' FB
	X	279+15 TO 285+00	CLASS IV	363 C.Y.	1.0'	2.0'	2' FB
	X	280+50 PIPE INLET	CLASS IV	14 C.Y.	1.0'	2.0'	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) * d50 = 1.5' ** d50 = 2.0'

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
LT.	275+02 TO 285+00	962.5'		1			
LT.	280+00 (BARRIER)	12.5'	2				
LT.	275+75 (BARRIER)	12.5'	2				
LT.	274+53 (BARRIER)	12.5'	2				
RT.	278+15 (BARRIER)	12.5'	2				
RT.	278+39 (BARRIER)	12.5'	2				
RT.	279+12 (BARRIER)	12.5'	2				

MAINLINE STA. 270+00 - STA. 285+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301_2E\2013\R02300PL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R7

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		276+00 PIPE OUTLET	CLASS IV	41 C.Y.	1.0'	2.0'	2' FB
X		280+50 PIPE OUTLET	CLASS IV•	2561 C.Y.	2.0'	20'	R.B.
X		280+50 PIPE OUTLET	CLASS IV	130 C.Y.	2.0'	2.0'	4' FB
X		281+22 TO 284+00	CLASS IV	640 C.Y.	3.0'	2.0'	6' FB
X		284+00 TO 285+00	CLASS IV••	329 C.Y.	2.0'	4.0'	6' FB
	X	279+15 TO 285+00	CLASS IV	363 C.Y.	1.0'	2.0'	2' FB
	X	280+50 PIPE INLET	CLASS IV	14 C.Y.	1.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)				• d50 = 1.5'		•• d50 = 2.0'	

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
LT.	275+02 TO 285+00	962.5'		1			
LT.	280+00 (BARRIER)	12.5'	2				
LT.	275+75 (BARRIER)	12.5'	2				
LT.	274+53 (BARRIER)	12.5'	2				
RT.	278+15 (BARRIER)	12.5'	2				
RT.	278+39 (BARRIER)	12.5'	2				
RT.	279+12 (BARRIER)	12.5'	2				

MATCH LINE STA. 270+00

MATCH LINE STA. 285+00

P201 TRACT A — BOBBY LAWSON ZELMA " (WF)

P202 TRACT A — THOMAS NEIL KIDD

P202 TRACT B

P202 TRACT C

P202 — THOMAS NEIL KIDD

Proposed R/W 200.00' N 47°01'50" E 483.55' 200.00' 83.55'

N 17°28'51" E 79.01'

S 84°06'44" W 25.20'

N 84°23'44" E 284.07' 84.07'

N32° 21'39"E

N 59°37'11" E 424.32' 200.00'

N 55°26'47" W 177.56'

N 54°17'28" W 365.44'

N 15°30'04" W 166.88'

S 30°12'07" W 729.41' 200.00' 200.00'

Proposed R/W 63.95'

N 59°37'10" E 270.21' 200.00'

S 72°12'23" E 12.75'

S 73°18'07" E 224.32'

S 15°43'41" E 26.90'

S 28°39'22" E 116.27'

S 48°40'19" E 62.61'

S 33°56'13" E 78.52'

S 22°24'57" W 36.76'

S 28°58'51" W 52.48'

N 22°29'32" W 97.5'

S 72°53'32" E 387.15'

Proposed R/W 187.75' 88.77'

N 24°35'37" W 8.4'

N 39°12'20" W 26.92'

N 4°08'02" W 35.64'

N 59°37'06" E 98.55'

S 30°22'50" E 66.64'

N 72°27'07" W 11.82'

N 62°25'03" W 33.82'

N 74°28'08" W 25.01'

N 86°40'47" W 50.53'

S 85°04'04" W 154.11'

S 85°08'16" W 37.39'

S 87°33'48" W 41.16'

S 78°43'46" W 550.42'

N 89°38'52" E 31.39'

N 83°16'51" E 200.00'

N 6°51'09" W 190.42'

N 5°53'27" E 50.38'

S 6°46'59" E 66.42'

S 87°57'04" E 55.91'

N 32°45'28" W 18.30'

N 21°35'54" W 66.36'

N 5°56'22" W 35.42'

PI STA 279+43.58
Δ= 74° 20'18" RT
D= 1701.69'
Ts= 1091.70'
Ls= 210.00'
Lc= 1476.68'
θs= 4° 37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 242.11'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

SC 270+61.88

OE 927.4

18" RCP

2' F.B. OUTLET DT.

8" PERF. PIPE

8" NON-PERF. PIPE

2' F.B. SURF. DT.

36" PIPE

IE 928.2

6' F.B. CH.CH.

2' F.B. OUTLET DT.

OE 922.8

20' ROCK BERM

SILT FILLED POND

POND

UNPAVED STRIP MINE ROAD

EXISTING R/W

FRASURE BAR RD.

PERMANENT EASEMENT FOR DRAINAGE

I-S-F RES

F-SHED

WOOD PEN

LOG SHED

BARNS

0' 50' 100' 200'

SCALE: 1"= 50"

MAINLINE STA. 270+00 - STA. 285+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02360PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R8

SCALE: 1"=50' HORIZ.
1"=10' VERT.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
308,356	654,308	281,692	79,252	8,828	4,515	12	13,812

DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

STA. 276+40 CONST. TRANSVERSE DITCHING W/ 7' OF 18" PERF. PIPE, 26' OF 8" NON-PERF. PIPE & 1 PERF PIPE HWALL TY 3 - 8 INCH

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	7.4	933.14•
CHECK	100	10.5	933.29•

•GRATE CONTROL

STA. 276+40 @ 0° SKEW
CONST. 103' OF 18" PIPE w/ DBI
TYPE I & 18" S & F HDWL.

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	36.7	926.03
CHECK	100	44.7	926.56

STA. 280+50 @ 0° SKEW
CONST. 244' OF 36" PIPE
w/ TWO (2) 36" FC HDWLS.

1080.1 909.13
1100.0 911.69
1126.8 914.25
1129.9 916.81
1098.3 919.37
1079.7 921.93
1050.2 924.45
270+00 270+50 271+00 271+50 272+00 272+50 273+00

FL 967.6
FL 942.5
FL 935.4
FL 928.2
FL 932.6
FL 924.84
FL 888.04
FL 856.0
FL 855.0
5.12%
14.41%
14.41%
6.8%
3.16%
3.57%
STA. 280+60
ELEC. LINE
(ONE WIRE)
ELEV. 905.58
2' F.B. SURF. DT. RT.
6' F.B. CH. CH. DT. LT.
NOTE: FLOW LINE DITCH PLOTTED 50' ABOVE DATUM

270+00 270+50 271+00 271+50 272+00 272+50 273+00 273+50 274+00 274+50 275+00 275+50 276+00 276+50 277+00 277+50 278+00 278+50 279+00 279+50 280+00 280+50 281+00 281+50 282+00 282+50 283+00 283+50 284+00 284+50 285+00

PROFILE STA. 270+00 - STA. 285+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0240DPF REV.DGN
USER: lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R8

SCALE: 1"=50' HORIZ.
1"=10' VERT.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
308,356	654,308	281,692	79,252	8,828	4,515	12	13,812

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

STA. 276+40 @ 0° SKEW
CONST. 103' OF 18" PIPE w/ DBI
TYPE I & 18'S & F HDWL.

STA. 276+64 CONST. TRANSVERSE DITCHING
W/ 7' OF 8' PERF. PIPE, 26' OF 8" NON-PERF.
PIPE & 1 PERF PIPE HWALL TY 3 - 8 INCH

STA. 280+50 @ 0° SKEW
CONST. 244' OF 36" PIPE
w/ TWO (2) 36" FC HDWLS.

STA. 280+60
ELEC. LINE
(ONE WIRE)
ELEV. 905.58

NOTE: FLOW LINE DITCH PLOTTED
50' ABOVE DATUM

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	7.4	933.14•
CHECK	100	10.5	933.29•

•GRATE CONTROL

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	36.7	926.03
CHECK	100	44.7	926.56

1080.1 909.13 | 1100.0 911.69 | 1126.8 914.25 | 1129.9 916.81 | 1098.3 919.37 | 1079.7 921.93 | 1050.2 924.45

270+00 | 270+50 | 271+00 | 271+50 | 272+00 | 272+50 | 273+00

FL 942.5 | FL 935.4 | FL 928.7 | FL 932.6 | FL 924.84 | FL 856.0 | FL 855.0 | FL 967.6 | FL 888.04

14.0% | 14.0% | 5.12% | 6.8% | 3.57% | 9.16%

2' F.B. SURF. DT. RT.

6' F.B. CH. CH. DT. LT.

270+00 270+50 271+00 271+50 272+00 272+50 273+00 273+50 274+00 274+50 275+00 275+50 276+00 276+50 277+00 277+50 278+00 278+50 279+00 279+50 280+00 280+50 281+00 281+50 282+00 282+50 283+00 283+50 284+00 284+50 285+00

PROFILE STA. 270+00 - STA. 285+00

FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2015\R0240PF REV.DGN
USER: lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
LT.	285+00 TO 292+94	812.5'	1				

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		285+00 TO 290+00	CLASS IV••	586 C.Y.	2.0'	4.0'	6' FB
X		290+00 TO 294+23	CLASS IV	239 C.Y.	1.0'	2.0'	2' FB
	X	285+00 TO 287+90	CLASS IV	170 C.Y.	1.0'	2.0'	2' FB
	X	289+25 TO 295+25	E.C. BLNK.	1398 S.Y.	2.0'	-	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 1.5' •• d50 = 2.0'

CONST. ENT. (WID.)	TRAFFIC BOUND BASE	E. PIPE	MES TYPE 1
LT. STA. 293+00 (12')	25 TON	59' - 30"	1 - 30"

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R9

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

MATCH LINE STA. 285+00

MATCH LINE STA. 300+00

MATCH LINE SHEET R9A

P202 THOMAS NEIL KIDD

P204 RICHARD MOORE MADELINE " (WF)

P204 TRACT A

P202 TRACT B

P202 TRACT A

P203 TRACT A

P212 CHESAPEAKE APPALACHIAN, LLC GAS WELL ONLY

P202 THOMAS NEIL KIDD

P203 PALMER HAMILTON JOYCE " (WF)

P212 CHESAPEAKE APPALACHIAN, LLC WELL 23465

PROPOSED R/W

PROPOSED R/W 184.85'

PROPOSED R/W 200.00'

EXISTING R/W

290+00

295+00

300+00

285+00

CS 285+58.5

ST 287+48.56

TS 297+35.65

SC 299+45.65

B. CH. CH.

4' F.B. OUTLET DT.

20' ROCK BERM

30" PIPE

OE 955.9

IE 1012.8

2' F.B. SURF. DT.

2' F.B. RDWY. DT.

8" NON-PERF. PIPE

8" PERF. PIPE

2" STEEL GASLINE

GAS LINE MARKER

METER BOX

BLOWOFF

F-BARN

VENT PIPE

DBI TYPE 2
T/G 978.5
IE 974.7

PI STA 279+43.58
Δ= 74° 20' 18" RT
Dc= 1701.69'
Ts= 1091.70'
Ls= 210.00'
Lc= 1476.68'
θs= 4° 37' 40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 242.11'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

PI STA 307+39.62
Δ= 69° 16' 20" LT
Dc= 1300.37'
Ts= 100.37'
Ls= 210.00'
Lc= 1361.74'
θs= 4° 37' 40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 281.73'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

S 84°12'24" E 229.82'

S 27°39'31" E 242.53'

S 88°18'46" E 492.58'

N 8°34'10" E 584.85'

S 40°46'58" W 20.19'

S 37°44'50" W 62.58'

S 26°03'57" W 188.28'

N 8°34'10" E 71.20'

N 88°09'06" W 68.30'

N 84°04'55" W 35.21'

N 88°46'09" W 103.29'

S 8°16'18" E 55.32'

S 70°07'41" E 25.66'

S 64°23'13" E 42.53'

S 59°35'53" E 49.59'

S 58°40'44" E 124.57'

N 60°11'26" W 85.45'

S 57°36'56" E 102.13'

S 45°39'53" E 28.89'

S 20°51'52" E 32.70'

S 63°25'28" E 29.00'

S 7°45'56" W 179.22'

N 60°13'46" W

N 58°11'11" W 33.42'

N 74°04'21" W 23.38'

N 85°59'58" W 148.77'

N 63°59'47" W 119.01'

N 55°09'10" W 56.87'

N 64°51'19" W 26.02'

N 50°13'53" W 26.97'

S 43°32'32" W

N 73°48'17" W 518.33'

N 73°48'17" W 598.34'

N 7°45'56" E 158.91'

N 21°12'35" W 314.94'

114.94'

200.00'

118.33'

81.67'

116.67'

S 27°26'46" E 19.43'

S 39°35'33" E 24.96'

S 73°18'03" E

N 50°14'41" W 28.81'

N 51°13'43" W 32.95'

N 58°39'22" W 22.17'

N 54°31'00" W 42.67'

N 44°47'53" W 28.81'

S 62°22'24" W 75.46'

S 65°56'52" W 66.20'

S 55°09'16" W 61.49'

N 24°37'14" W 50.81'

S 12°47'42" W 17.15'

S 58°50'38" W 58.42'

S 56°00'38" E 66.38'

S 62°11'44" E 21.79'

S 54°12'52" E 21.68'

S 12°47'42" W 30.35'

S 66°22'35" W 20.66'

S 59°43'45" W 42.97'

S 47°50'52" E 30.29'

S 66°51'14" E 8.74'

S 54°47'20" E 83.65'

S 48°27'45" E 40.79'

S 47°36'35" E 28.54'

S 57°24'01" E 43.26'

S 60°16'09" E 35.18'

S 69°03'43" E 34.38'

S 77°23'22" E 33.48'

S 85°37'47" E 21.80'

S 84°49'54" W 40.85'

N 85°55'55" E 29.14'

N 56°14'44" W 46.94'

N 50°37'24" W 29.70'

N 48°04'43" W 40.82'

N 55°43'25" W 85.28'

N 60°10'16" W 62.50'

N 53°48'10" W 61.83'

N 62°12'21" W 35.63'

N 76°33'34" W 51.13'

S 86°05'50" W 61.59'

FRASURE BR. RD.

EXISTING R/W

2" STEEL GASLINE

MI6 991.54

R 35'

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 285+00 - STA. 300+00

LT. OR RT.

USER: Lisa
DATE PLOTTED: December 2, 2015

E-SHEET NAME:

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02500PL.DGN

MicroStation v8.11.9.608

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
LT.	285+00 TO 292+94	812.5'	1				

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		285+00 TO 290+00	CLASS IV••	586 C.Y.	2.0'	4.0'	6' FB
X		290+00 TO 294+23	CLASS IV	239 C.Y.	1.0'	2.0'	2' FB
	X	285+00 TO 287+90	CLASS IV	170 C.Y.	1.0'	2.0'	2' FB
	X	289+25 TO 295+25	E.C. BLNK.	1398 S.Y.	2.0'	-	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 1.5' •• d50 = 2.0'

CONST. ENT. (WID.)	TRAFFIC BOUND BASE	E. PIPE	MES TYPE I
LT. STA. 293+00 (12')	25 TON	59' - 30"	1 - 30"

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R9

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

MATCH LINE STA. 285+00

MATCH LINE STA. 300+00

MATCH LINE SHEET R9A

P202 THOMAS NEIL KIDD

P204 RICHARD MOORE MADELINE " (WF)

P204 TRACT A

P202 TRACT B

P202 TRACT A

P203 TRACT A

P212 CHESAPEAKE APPALACHIAN, LLC GAS WELL ONLY

P202 THOMAS NEIL KIDD

P203 PALMER HAMILTON JOYCE " (WF)

P212 CHESAPEAKE APPALACHIAN, LLC WELL 23465

PROPOSED R/W

N 8°34'10" E 571.20' 56.05'

N 8°34'10" E 584.85' 200.00'

S 84°12'24" E 229.82'

S 27°39'31" E 242.93'

S 88°18'46" E 492.58' 200.00'

92.58'

200.00'

200.00'

PROPOSED R/W 184.85'

S 26°03'57" W 188.28'

S 40°46'58" W 20.19'

S 37°44'50" W 62.58'

15.15'

GAS LINE MARKER

2" STEEL GASLINE

2' F.B. SURF. DT.

4' F.B. OUTLET DT.

20' ROCK BERM

B. CH. CH.

F. BARN

NNV

VENT PIPE

METER BOX

BLOWOFF

CHESAPEAKE APPALACHIAN, LLC WELL 23465

DBI TYPE 2 T/G 978.5 IE 974.7

30" PIPE

IE 1012.8

OE 1000.99

OE 955.9

8" NON-PERF. PIPE

8" PERF. PIPE

2' F.B. RDWY. DT.

EXISTING R/W

FRASURE BR. RD.

EXISTING R/W

PROPOSED R/W

CS 285+58.5

ST 287+48.56

TS 297+35.65

SC 299+45.65

PI STA 279+43.58
Δ= 74°20'18" RT
D= 1701.69'
Ts= 1091.70'
Ls= 210.00'
Lc= 1476.68'
θs= 4°37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 242.11'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

PI STA 307+39.62
Δ= 69°16'20" LT
D= 1300.33'
Ts= 100.37'
Ls= 210.00'
Lc= 1361.74'
θs= 4°37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 281.73'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

Ⓐ S 27°26'46" E 19.43'

Ⓑ S 39°35'33" E 24.96'

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 285+00 - STA. 300+00

MicroStation v8.11.9.608 E-SHEET NAME: USER: Lisa DATE PLOTTED: December 2, 2015 FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02500PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R9A

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
	X	299+46.4 - 299+89	CLASS IV	138 C.Y.	3.0'	2.0'	6' FB
	X	299+87.2 - 299+93.9	CLASS IV	54 C.Y.	3.0'	2.0'	6' FB
	X	303+65.6 - 304+13.5	CLASS IV	81 C.Y.	1.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

MATCH LINE STA. 300+00

MATCH LINE SHEET R11

MATCH LINE SHEET R11A

MATCH LINE SHEET R9

MATCH LINE SHEET R11B

GRAVEL

2' F.B. OUTLET DT.

8' F.B. CH. CH.

PROPOSED R/W

P203 TRACT A

P203 TRACT B

P210 TRACT A

P210 TRACT B

P203
PALMER HAMILTON
JOYCE " (WF)

P210
LEWIS & CAROLINE
MOORE ESTATE

SCALE: 1"= 50'

MATCH SHEET

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R0250APL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R9A

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
	X	299+46.4 - 299+89	CLASS IV	138 C.Y.	3.0'	2.0'	6' FB
	X	299+87.2 - 299+93.9	CLASS IV	54 C.Y.	3.0'	2.0'	6' FB
	X	303+65.6 - 304+13.5	CLASS IV	81 C.Y.	1.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

MATCH LINE STA. 300+00

MATCH LINE SHEET R11

MATCH LINE SHEET R9

MATCH LINE SHEET R11A

MATCH LINE SHEET R11B

GRAVEL

2' F.B. OUTLET DT.

8' F.B. CH. CH.

PROPOSED R/W

P203 TRACT A

P203 TRACT B

P210 TRACT A

P210 TRACT B

P203
PALMER HAMILTON
JOYCE " (WF)

P210
LEWIS & CAROLINE
MOORE ESTATE

S 84°49'54" W 40.85'
N 89°00'27" W 76.11'
S 82°06'10" E 43.51'
N 89°53'30" E 78.24'
N 88°10'02" E 21.36'
N 8°28'00" W 79.19'
S 85°57'27" E 53.32'
N 84°20'06" E 53.21'
S 87°08'41" W 39.77'
S 80°57'10" E 47.24'
N 85°50'27" W 111.47'
S 86°00'21" E 46.70'
S 78°36'28" E 65.35'
N 80°17'06" E 35.98'
N 87°42'13" E 29.41'
S 67°47'14" W 28.86'
S 57°31'58" W 28.86'
S 80°49'03" E 16.09'
S 56°09'08" E 22.40'
S 51°51'12" E 62.33'
N 58°18'46" E 20.84'
N 65°40'40" E 60.88'
N 77°22'51" E 119.71'
N 77°11'20" W 7.70'
S 83°39'28" W 37.10'
S 86°17'05" W 26.34'
N 83°07'03" W 19.94'
S 88°07'18" W 20.84'
N 85°12'06" W 48.99'
S 65°12'58" W 39.11'
S 85°46'[illegible]
S 67°41'07" W 139.91'
S 43°12'17" W 136.52'
S 43°12'17" W 43.77'
S 43°34'35" W 102.39'
S 30°43'37" W 111.60'
S 21°47'42" W 44.14'
N 0°46'30" W 401.90'
N 0°46'30" W 207.90'
N 0°46'30" W 37.34'
S 68°54'04" W 25.62'
S 77°47'12" W 59.73'
S 43°23'07" W 23.85'
S 53°20'23" W 10.71'
S 75°15'18" W 6.71'
S 73°32'03" 34.63'
S 86°52'19" W 716.90'
200.00'
116.90'

0'	50'	100'	200'

SCALE: 1"= 50'

MATCH SHEET

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R0250APL.DGN

DATUM

M16 is located on the north side of Frasure Branch Road +/- 1.30 miles northwest of the intersection of Frasure Branch Road and KY 979. The station is on the south side of a dirt road just north of Frasure Branch Road. The mark is a concrete monument with a aluminum disk and is set flush with the ground.

SHEET TOTALS

Exc. Mining Backfill	Emb Bench in Rock	Highwall Emb.	COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR DITCH	DITCH LT.	DITCH RT.	EMB BENCH
40,324	10,696	138,181	105,825	243,910	149,006	134,715	8,916	631	0	20,107

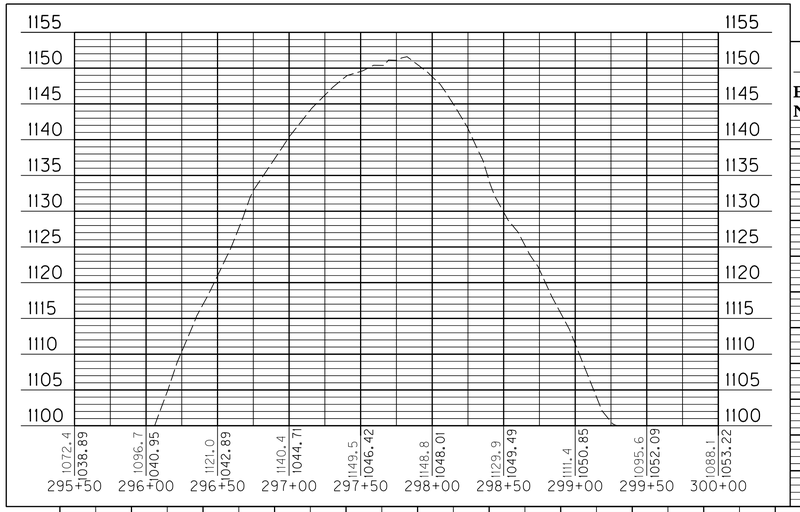
SCALE: 1"=50' HORIZ.
1"=10' VERT.

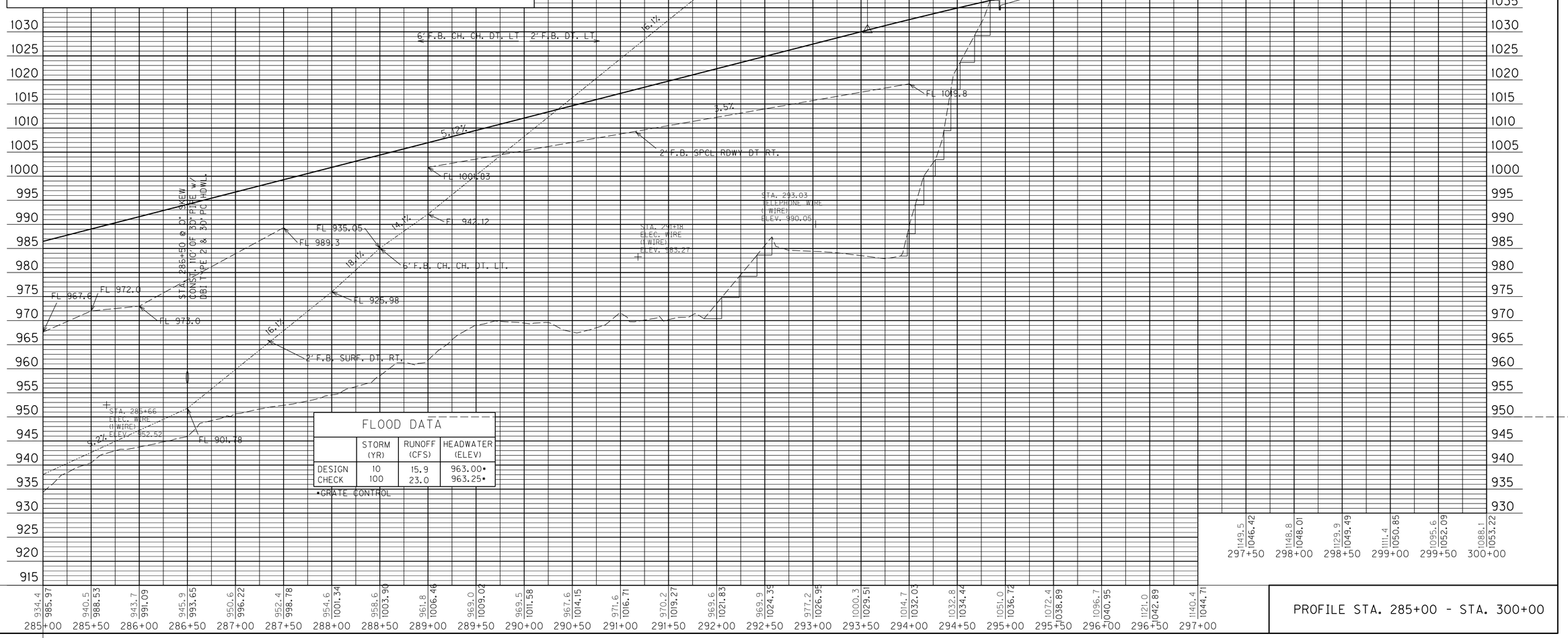
COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R10

DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.





FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	15.9	963.00•
CHECK	100	23.0	963.25•

•GRATE CONTROL

PROFILE STA. 285+00 - STA. 300+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R02600PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

DATUM

M16 is located on the north side of Frasure Branch Road +/- 1.30 miles northwest of the intersection of Frasure Branch Road and KY 979. The station is on the south side of a dirt road just north of Frasure Branch Road. The mark is a concrete monument with a aluminum disk and is set flush with the ground.

SHEET TOTALS

Exc. Mining Backfill	Emb Bench in Rock	Highwall Emb.	COM	ROCK	DUR. ROCK EMB	OTHER EMB	DITCH RR	DITCH LT.	DITCH RT.	EMB BENCH
40,324	10,696	138,181	105,825	243,910	149,006	134,715	8,916	631	0	20,107

SCALE: 1"=50' HORIZ.
1"=10' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R10

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

STA. 294+94 CONST. TRANSVERSE BENCHING W/ 56' OF 6" PERF. PIPE, 54' OF 8" NON-PERF. PIPE & 1 PERF PIPE HWALL TY. I & 8 INCH

FL 1022.8

NOTE: FLOW LINE DITCH PLOTTED 50' ABOVE DATUM

PVC 293+56.71
Elev 1029.86

L 1310.00 FT
SD 682.27 FT

6' F.B. CH. CH. DT. LT 2' F.B. DT. LT.

16.1%

5.2%

3.5%

2' F.B. SPCL RDWY DT RT.

FL 1019.8

FL 1001.83

FL 947.12

STA. 293.03
TELEPHONE WIRE
(WIRE)
ELEV. 990.05

STA. 291+18
ELEC. WIRE
(WIRE)
ELEV. 983.27

STA. 286+50 @ 0° SKEW
CONST. 110' OF 30" PIPE w/
DBI TYPE 2 & 50' PC HDWL.

FL 935.05
FL 989.3

14.1%

18.1%

6' F.B. CH. CH. DT. LT.

FL 925.98

FL 967.6
FL 972.0
FL 973.0

15.1%

2' F.B. SURF. DT. RT.

STA. 285+66
ELEC. WIRE
(WIRE)
ELEV. 952.52

9.2%

FL 901.78

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	15.9	963.00•
CHECK	100	23.0	963.25•

•GRATE CONTROL

1155 1150 1145 1140 1135 1130 1125 1120 1115 1110 1105 1100

1072.4 1038.89	1096.7 1040.95	1121.0 1042.89	1140.4 1044.71	1149.5 1046.42	1148.8 1048.01	1129.9 1049.49	1111.4 1050.85	1095.6 1052.09	1088.1 1053.22
295+50	296+00	296+50	297+00	297+50	298+00	298+50	299+00	299+50	300+00

1100 1095 1090 1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970 965 960 955 950 945 940 935 930 925 920 915

934.4 985.97	940.5 988.53	943.7 991.09	945.9 993.65	950.6 996.22	952.4 998.78	954.6 1001.34	958.6 1003.90	961.8 1006.46	969.0 1009.02	969.5 1011.58	967.6 1014.15	971.6 1016.71	970.2 1019.27	969.6 1021.83	969.9 1024.39	977.2 1026.95	1000.3 1029.51	1014.7 1032.03	1032.8 1034.44	1051.0 1036.72	1072.4 1038.89	1096.7 1040.95	1121.0 1042.89	1140.4 1044.71
285+00	285+50	286+00	286+50	287+00	287+50	288+00	288+50	289+00	289+50	290+00	290+50	291+00	291+50	292+00	292+50	293+00	293+50	294+00	294+50	295+00	295+50	296+00	296+50	297+00

1149.5 1046.42	1148.8 1048.01	1129.9 1049.49	1111.4 1050.85	1095.6 1052.09	1088.1 1053.22
297+50	298+00	298+50	299+00	299+50	300+00

PROFILE STA. 285+00 - STA. 300+00

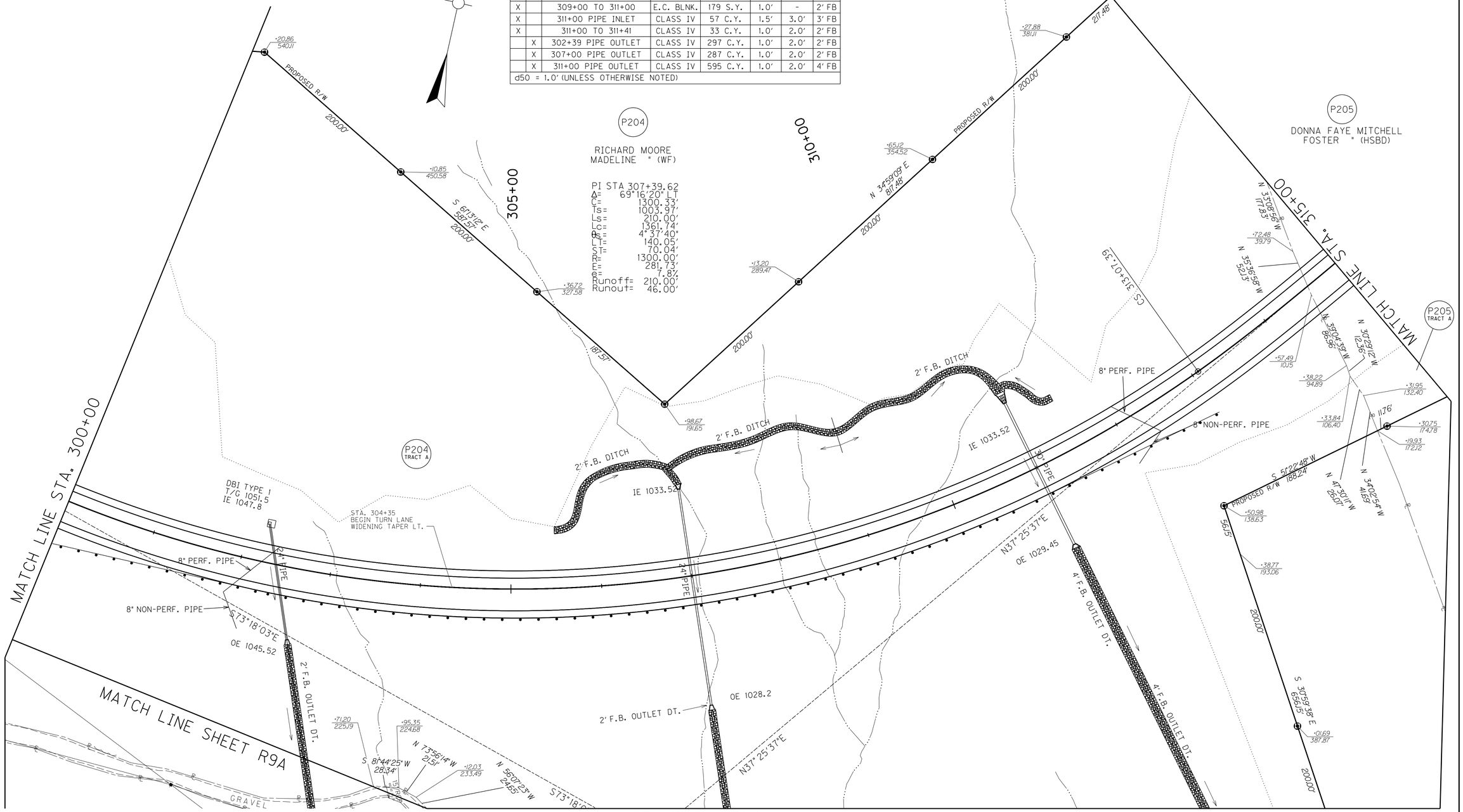
DATUM

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02600PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R11

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC.	END TREATMENT			BRIDGE END CONN.
			No. 1 (Ea.)	TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	CONN TY A (Ea.)
RT.	300+00 TO 313+00	1137.5'			2		

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		305+90 TO 309+00	CLASS IV	200 C.Y.	1.0'	2.0'	2' FB
X		307+00 PIPE INLET	CLASS IV	29 C.Y.	1.5'	2.0'	2' FB
X		309+00 TO 311+00	E.C. BLNK.	179 S.Y.	1.0'	-	2' FB
X		311+00 PIPE INLET	CLASS IV	57 C.Y.	1.5'	3.0'	3' FB
X		311+00 TO 311+41	CLASS IV	33 C.Y.	1.0'	2.0'	2' FB
	X	302+39 PIPE OUTLET	CLASS IV	297 C.Y.	1.0'	2.0'	2' FB
	X	307+00 PIPE OUTLET	CLASS IV	287 C.Y.	1.0'	2.0'	2' FB
	X	311+00 PIPE OUTLET	CLASS IV	595 C.Y.	1.0'	2.0'	4' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							



0' 50' 100' 200'

SCALE: 1"= 50'

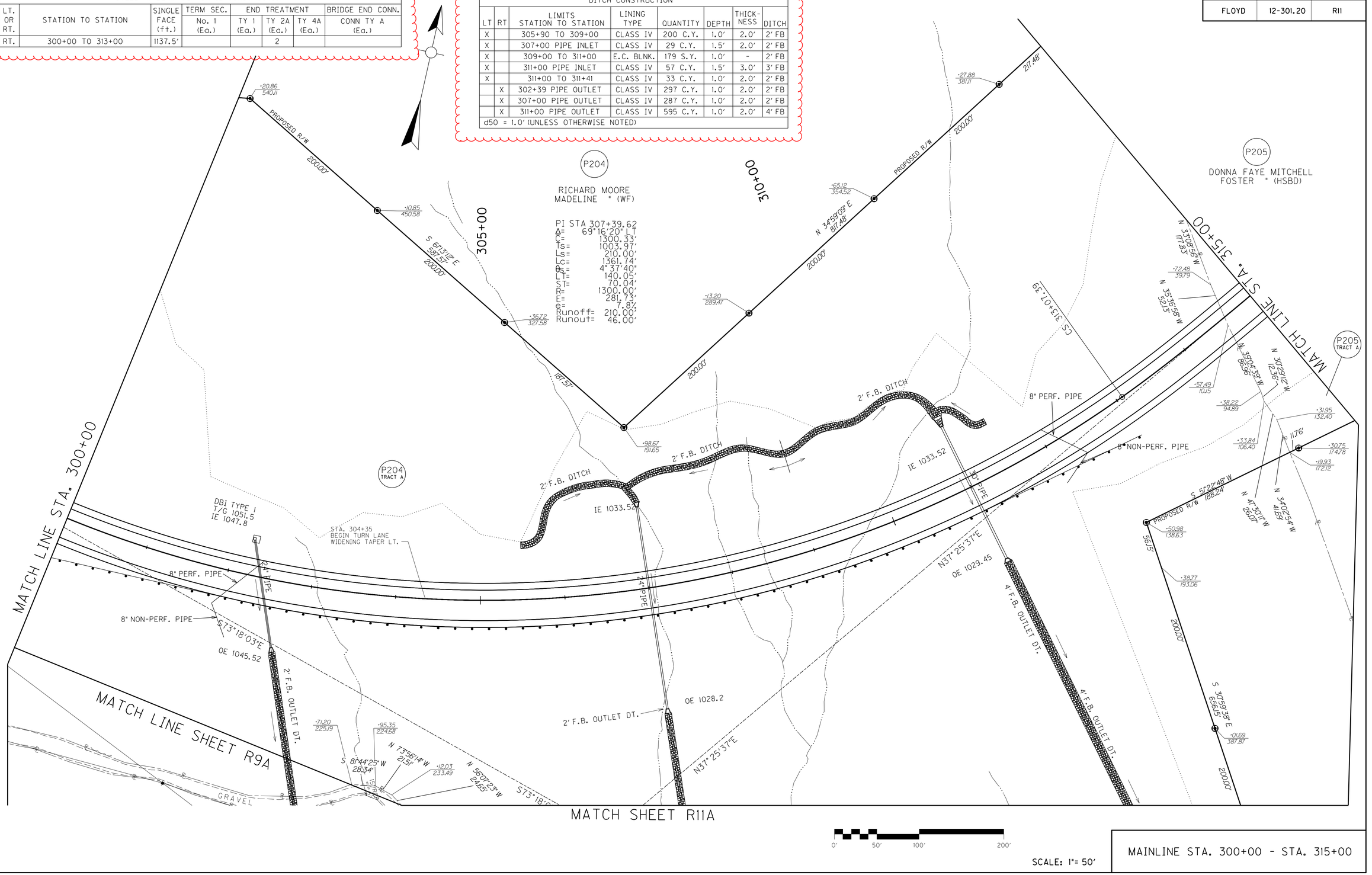
MAINLINE STA. 300+00 - STA. 315+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa | DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02700PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R11

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC.	END TREATMENT			BRIDGE END CONN.
			No. 1 (Ea.)	TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	CONN TY A (Ea.)
RT.	300+00 TO 313+00	1137.5'			2		

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		305+90 TO 309+00	CLASS IV	200 C.Y.	1.0'	2.0'	2' FB
X		307+00 PIPE INLET	CLASS IV	29 C.Y.	1.5'	2.0'	2' FB
X		309+00 TO 311+00	E.C. BLNK.	179 S.Y.	1.0'	-	2' FB
X		311+00 PIPE INLET	CLASS IV	57 C.Y.	1.5'	3.0'	3' FB
X		311+00 TO 311+41	CLASS IV	33 C.Y.	1.0'	2.0'	2' FB
	X	302+39 PIPE OUTLET	CLASS IV	297 C.Y.	1.0'	2.0'	2' FB
	X	307+00 PIPE OUTLET	CLASS IV	287 C.Y.	1.0'	2.0'	2' FB
	X	311+00 PIPE OUTLET	CLASS IV	595 C.Y.	1.0'	2.0'	4' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							



0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 300+00 - STA. 315+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa | DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02700PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R11A

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
	X	299+50 - 312+18	CLASS IV	6523 C.Y.	3.0'	3.0'	8' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

MATCH LINE SHEET R11

MATCH LINE SHEET R9A

MATCH LINE SHEET R11B

P203
PALMER HAMILTON
JOYCE " (WF)

P203
TRACT A

P204
RICHARD MOORE
MADELINE " (WF)

P204
TRACT A

P204
TRACT B

P213
EQT GATHERING, LLC
GAS WELL ONLY

P210
TRACT A

P210
LEWIS & CAROLINE
MOORE ESTATE

P204
RICHARD MOORE
MADELINE * (WF)

C	N 52°02'06" E	21.65
D	N 82°01'39" E	51.71
E	N 88°48'24" E	49.17
F	N 84°34'50" E	39.78
G	S 89°54'38" E	14.08
H	N 44°59'38" E	6.76
I	N 78°27'42" E	17.07
J	N 86°31'51" E	11.29
K	S 87°20'10" E	14.70
L	S 67°55'37" E	13.63
M	S 79°06'32" E	9.04
N	N 73°29'23" E	9.61
O	N 29°02'51" E	7.03
P	N 12°48'02" E	7.70
Q	N 37°52'09" E	7.79
R	N 71°33'32" E	8.64
S	S 90°00'00" E	9.22
T	S 70°33'08" E	6.15
U	N 83°39'18" E	9.27
V	N 61°33'04" E	9.32
W	N 44°59'17" E	13.52
X	N 64°51'58" E	28.06

0' 50' 100' 200'

SCALE: 1"= 50'

MATCH SHEET

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0270APL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R11A

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
	X	299+50 - 312+18	CLASS IV	6523 C.Y.	3.0'	3.0'	8' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

MATCH LINE SHEET R11

MATCH LINE SHEET R9A

MATCH LINE SHEET R11B

P203
PALMER HAMILTON
JOYCE " (WF)

P203
TRACT A

P204
RICHARD MOORE
MADELINE " (WF)

P204
TRACT A

P204
TRACT B

P213
EQT GATHERING, LLC
GAS WELL ONLY

P210
TRACT A

P210
LEWIS & CAROLINE
MOORE ESTATE

P204
RICHARD MOORE
MADELINE * (WF)

2' F.B. OUTLET DT.

4' F.B. OUTLET DT.

8' F. B. CH. CH.

PROPOSED R/W

PAVED DRIVE

GAS HOUSE

LOG BARN

HOOPEN

GM

E - T

E - T - TV

C	N 52°02'06" E	21.65
D	N 82°01'39" E	51.71
E	N 88°48'24" E	49.17
F	N 84°34'50" E	39.78
G	S 89°54'38" E	14.08
H	N 44°59'38" E	6.76
I	N 78°27'42" E	17.07
J	N 86°31'51" E	11.29
K	S 87°20'10" E	14.70
L	S 67°55'37" E	13.63
M	S 79°06'32" E	9.04
N	N 73°29'23" E	9.61
O	N 29°02'51" E	7.03
P	N 12°48'02" E	7.70
Q	N 37°52'09" E	7.79
R	N 71°33'32" E	8.64
S	S 90°00'00" E	9.22
T	S 70°33'08" E	6.15
U	N 83°39'18" E	9.27
V	N 61°33'04" E	9.32
W	N 44°59'17" E	13.52
X	N 64°51'58" E	28.06

0' 50' 100' 200'

SCALE: 1"= 50'

MATCH SHEET

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0270APL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

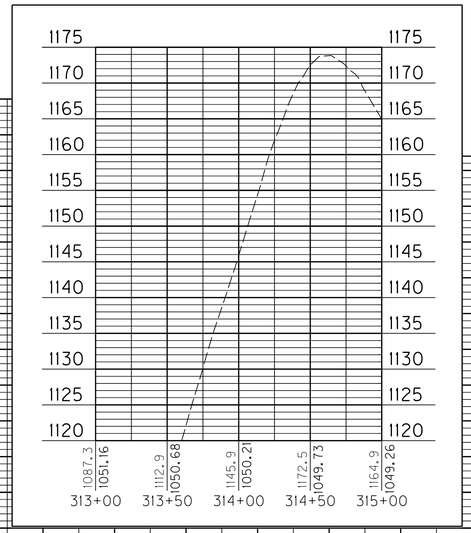
COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R12

SCALE: 1"=50' HORIZ.
1"=10' VERT.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
55,672	129,262	1,126,128	768,504	9,028	0	0	5,284

Exc. Mining Backfill	Emb Bench in Rock	Highwall Emb.
20,751	45,247	2,115



FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	7.7	1000.94•
CHECK	100	11.0	1001.09•

•GRATE CONTROL

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	11.9	996.66
CHECK	100	14.4	996.95

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	19.9	1013.26
CHECK	100	24.4	1013.62

PROFILE STA. 300+00 - STA. 315+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02800PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

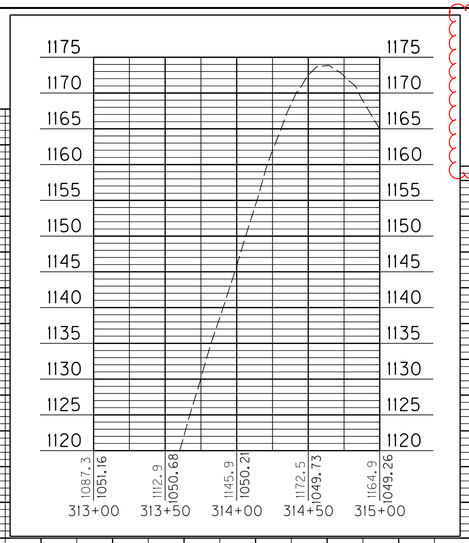
SHEET TOTALS							
COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
55,672	129,262	1,126,128	768,504	9,028	0	0	5,284

Exc. Mining Backfill	Emb Bench in Rock	Highwall Emb.
20,751	45,247	2,115

SCALE: 1"=50' HORIZ.
1"=10' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R12

DATUM



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	10	7.7	1000.94•
CHECK	100	11.0	1001.09•

•GRATE CONTROL

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	11.9	996.66
CHECK	100	14.4	996.95

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	19.9	1013.26
CHECK	100	24.4	1013.62

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	310+50	311+00	311+50	312+00	312+50	313+00	313+50	314+00	314+50	315+00
1088.1 1053.22	1089.1 1054.23	1087.0 1055.13	1081.7 1055.91	1068.4 1056.57	1052.6 1057.12	1019.3 1057.55	1034.2 1057.87	1033.9 1058.07	1041.6 1058.16	1046.5 1058.12	1029.7 1057.98	992.2 1057.71	961.0 1057.34	953.2 1056.87	970.7 1056.39	948.7 1055.92	955.3 1055.44	961.8 1054.96	948.0 1054.49	973.1 1054.01	992.7 1053.54	1002.4 1053.06	1023.7 1052.59	1047.9 1052.11	1072.7 1051.64	1087.3 1051.16	1112.9 1050.68	1145.9 1050.21	1172.5 1049.73	1164.9 1049.26

PROFILE STA. 300+00 - STA. 315+00

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02800PF REV.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R13

PI STA 307+39.62
Δ= 69°16'20" LT
C= 1300.33'
Ts= 1003.97'
Ls= 210.00'
Lc= 1361.74'
θs= 4°37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 281.73'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

P204
RICHARD MOORE
MADELINE " (WF)

STA. 319+41.8 CONST. EARTH DIKE
(SEE PIPE SHEET)

P205
DONNA FAYE MITCHELL
FOSTER " (HSBD)

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		319+38 PIPE INLET	CLASS IV•	83 C.Y.	1.0'	3.0'	4' FB
X		319+38 PROT. AT HDWL.	CLASS IV	17 C.Y.	-	2.0'	HDWL.
X		319+65 TO 320+50	CLASS IV	65 C.Y.	1.0'	2.0'	2' FB
	X	319+38 PIPE OUTLET	CLASS IV	40 C.Y.	1.0'	2.0'	6' FB
	X	322+80 TO 323+00	CLASS IV	33 C.Y.	1.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)				• d50 = 1.5'		•• d50 = 0.2'	

N 34°59'09" E 817.48'
217.48'
182.52'
PROPOSED R/W
200.00'
N 34°59'09" E 940.47'
200.00'
200.00'
157.95'
N 34°59'09" E 81.04'
200.00'
N 39°05'12" E 778.91'
200.00'
PROPOSED R/W

·50.76 390.77
·33.11 398.54
·32.93 407.06
·32.75 415.58
·32.57 424.10
·90.38 430.83
·71.35 434.28
·71.26 428.49

320+00
325+00

N 15°13'07" W 33.19'
·95.58 315.80
N 27°03'15" W 25.65'
·31.77 207.55
N 3°08'56" W 177.23'
ST 315+17.39
P204 TRACT A

N 77°00'21" E 32.91'
·15.79 409.83
N 81°37'58" E 27.08'
GAS LINE MARKER
GAS LINE MARKER
GAS LINE MARKER
UNPAVED STRIP MINE ROAD
P207
LORA JEAN STRATTON (WIDOW)
EDFORD CLARK, JR
ROBIN " (WF)
NORA L. CLARK
HAROLD W. COOLEY (HSBD)
32809.92
221.00
·09.92 221.00
8" STEEL GASLINE
COLUMBIA
S 66°16'25" E 288.03'
P207 TRACT A
STA. 328+25
END TRUCK LANE LT.
·76.72 53.00
PC 328+94.31
S 80°32'14" E 23.19'

MATCH LINE STA. 315+00
MATCH LINE STA. 330+00

P205 TRACT A
STA. 322+25
BEGIN TRUCK LANE
TAPER LT.
IE 1038.2
4' F.B. INLET DT.
2' F.B. SPCL. RDWY. DT.
EARTH DIKE
8" PERF. PIPE
PROTECT AROUND HDWL.
N37°25'37"E
30" PIPE
8" PERF. PIPE
8" NON-PERF. PIPE
8" NON-PERF. PIPE
OE 1028.85
2' F.B. SURF. DT.
6' F.B. OUTLET DT.

200.00'
PROPOSED R/W
200.00'
S 51°22'48" W 513.50'
·22.45 222.59
·57.06 280.88
·16.55 270.82
N 38°37'12" W 40.00'
101.74'
60.00'
·47.41 319.70
S 51°22'48" W 60.00'
·15.29 295.35
S 38°37'12" E 40.00'
·05.64 334.17
P205 TRACT C
TEMPORARY EASEMENT
FOR EROSION CONTROL
200.00'
S 23°46'06" W 438.38'
238.38'
·09.63 248.12
·41.27 191.83
200.00'
·27.65 264.37
200.00'
·14.03 336.91
200.00'
S 58°41'36" W 691.35'
91.35'
PROPOSED R/W
·00.82 409.45
·92.13 441.90

PI STA 337+52.40
Δ= 14°54'17" RT
C= 1701.69'
T= 858.10'
L= 1706.50'
R= 6560.00'
E= 55.88'
e= 2.6%
Runoff= 72.00'
Runout= 55.00'
·88.83 256.54
·96.17 254.72
N 23°47'13" E 7.29'
S 22°40'03" E 185.39'

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	319+00 TO 322+50	350.0'		2			
LT.	328+00 (BARRIER)	12.5'	2				

0' 50' 100' 200'
SCALE: 1"= 50'

MAINLINE STA. 315+00 - STA. 330+00

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO2900PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R13

PI STA 307+39.62
Δ= 69°16'20" LT
C= 1300.33'
Ts= 1003.97'
Ls= 210.00'
Lc= 1361.74'
θs= 4°37'40"
LT= 140.05'
ST= 70.04'
R= 1300.00'
E= 281.73'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

P204
RICHARD MOORE
MADELINE " (WF)

STA. 319+41.8 CONST. EARTH DIKE
(SEE PIPE SHEET)

P205
DONNA FAYE MITCHELL
FOSTER " (HSBD)

N 34°59'09" E 940.47'

PROPOSED R/W

N 34°59'09" E 817.48'

217.48'

182.52'

200.00'

200.00'

200.00'

200.00'

157.95'

N 34°59'09" E 81.04'

N 39°05'12" E 778.91'

PROPOSED R/W

N 77°00'21" E 32.91'

N 61°37'58" E 27.08'

320+00

325+00

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		319+38 PIPE INLET	CLASS IV•	83 C.Y.	1.0'	3.0'	4' FB
X		319+38 PROT. AT HDWL.	CLASS IV	17 C.Y.	-	2.0'	HDWL.
X		319+65 TO 320+50	CLASS IV	65 C.Y.	1.0'	2.0'	2' FB
	X	319+38 PIPE OUTLET	CLASS IV	40 C.Y.	1.0'	2.0'	6' FB
	X	322+80 TO 323+00	CLASS IV	33 C.Y.	1.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)				• d50 = 1.5'		•• d50 = 0.2'	

GAS LINE MARKER
GAS LINE MARKER
GAS LINE MARKER
UNPAVED STRIP MINE ROAD
GW
GW
GW
GW
CM
CM

P204
TRACT A

N 16°13'07" W 33.19'

N 27°03'15" W 25.65'

N 3°08'56" W 177.23'

ST 315+17.39

MATCH LINE STA. 315+00

P205
TRACT A

P207
LORA JEAN STRATTON (WIDOW)
EDFORD CLARK, JR
ROBIN " (WF)
NORA L. CLARK
HAROLD W. COOLEY (HSBD)

32809.92
221.00

8" STEEL GASLINE
COLUMBIA

P207
TRACT A

STA. 328+25
END TRUCK LANE LT.

S 66°16'25" E 288.03'

STA. 322+25
BEGIN TRUCK LANE
TAPER LT.

IE 1038.2

4' F.B. INLET DT.

2' F.B. SPCL. RDWY. DT.

EARTH DIKE

PROTECT AROUND HDWL.

8" PERF. PIPE

N37°25'37"E

30" PIPE

8" PERF. PIPE

8" NON-PERF. PIPE

8" NON-PERF. PIPE

OE 1028.85

2' F.B. SURF. DT.

6' F.B. OUTLET DT.

PC 328+94.31

S 80°32'14" E 23.19'

MATCH LINE STA. 330+00

PI STA 337+52.40
Δ= 14°54'17" RT
C= 1701.69'
T= 858.10'
L= 1706.50'
R= 6560.00'
E= 55.88'
e= 2.6%
Runoff= 72.00'
Runout= 55.00'

N 23°47'13" E 7.29'

S 22°40'03" E 185.39'

200.00'
PROPOSED R/W

S 5°22'48" W 513.50'

101.74'

60.00'

N 38°37'12" W 40.00'

S 5°22'48" W 60.00'

S 38°37'12" E 40.00'

238.38'

S 23°46'06" W 438.38'

200.00'

200.00'

200.00'

200.00'

S 58°41'36" W 691.35'

91.35'

PROPOSED R/W

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	319+00 TO 322+50	350.0'		2			
LT.	328+00 (BARRIER)	12.5'	2				

TEMPORARY EASEMENT
FOR EROSION CONTROL

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 315+00 - STA. 330+00

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R02900PL.DGN

DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

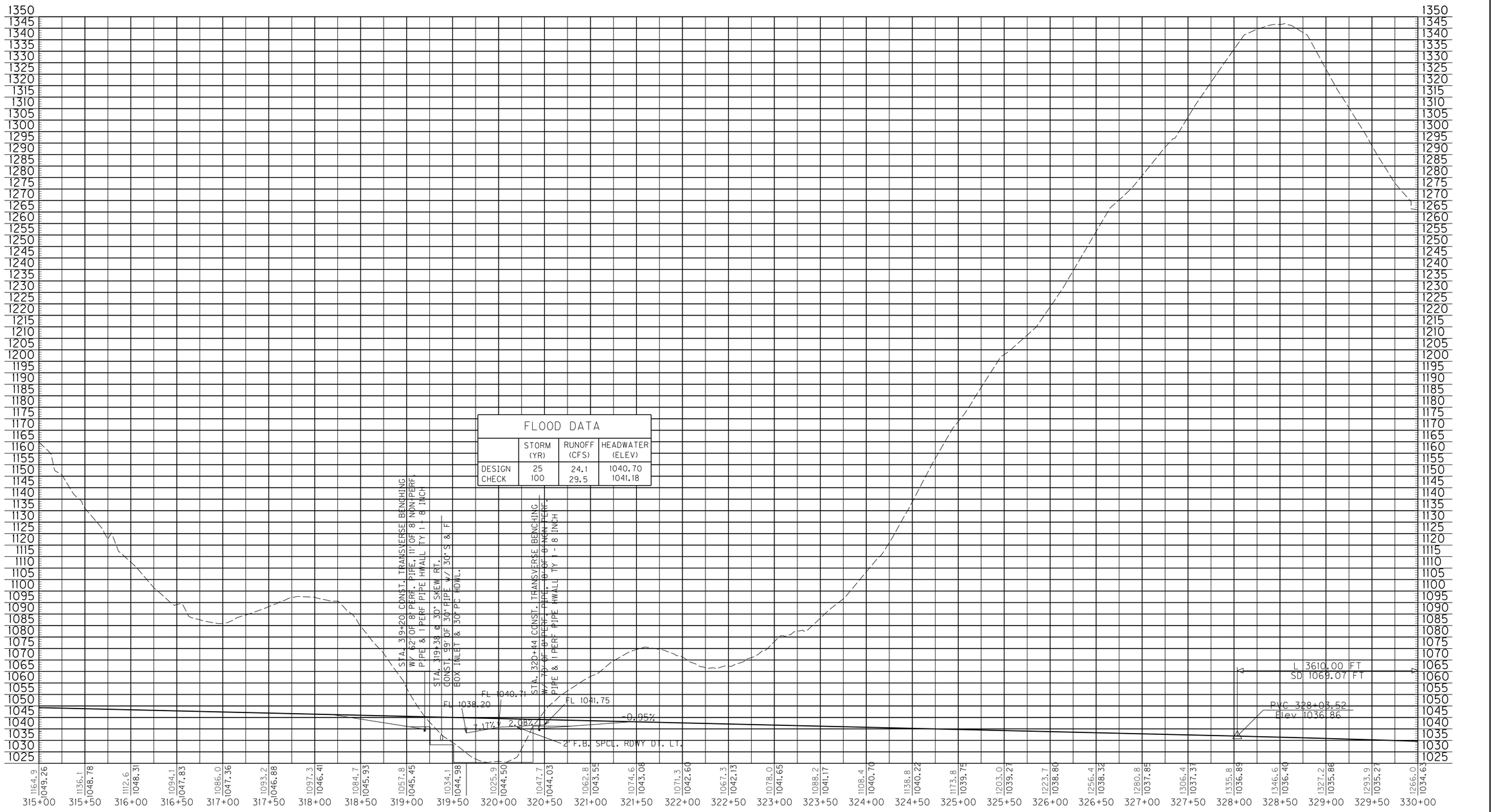
SCALE: 1"=50' HORIZ.
1"=20' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R14

DATUM

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
293,337	1,697,495	0	13,481	9,120	0	0	4,387



PROFILE STA. 315+00 - STA. 330+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R03000PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

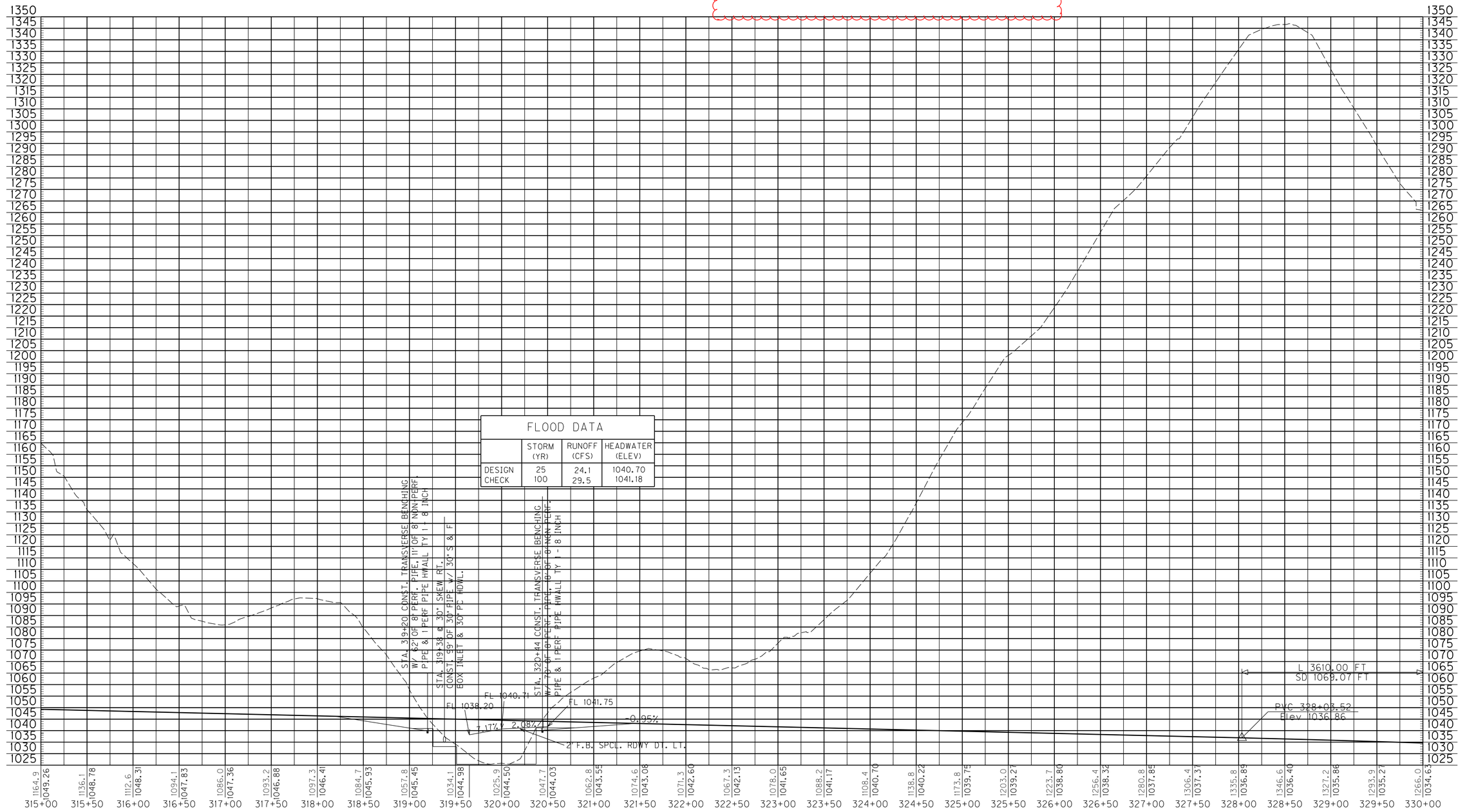
SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
293,337	1,697,495	0	13,481	9,120	0	0	4,387

SCALE: 1"=50' HORIZ.
1"=20' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	RI4

DATUM



FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	24.1	1040.70
CHECK	100	29.5	1041.18

PROFILE STA. 315+00 - STA. 330+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO3000PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R15

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Eq.)	END TREATMENT TY 1 (Eq.)	TY 2A (Eq.)	TY 4A (Eq.)	BRIDGE END CONN. CONN TY A (Eq.)
RT.	332+25 (BARRIER)	12.5'	2				
RT.	336+50 - 345+00	850.0'		1			

CONST. ENT. (WID.)	TRAFFIC BOUND BASE	E. PIPE
LT. STA. 344+00 (30' - 17')	508 TON	43' - 15"
RT. ENT 344+00 STA. 43+50 (15')	22 TON	40' - 15"
RT. ENT 344+00 STA. 44+00 (15')	86 TON	70' - 48"

MATCH LINE STA. 330+00

MATCH LINE STA. 345+00

MATCH LINE SHEET R15A

P207 TRACT B

P207 TRACT A

P206 TRACT A

P208 TRACT A

P208 TRACT C

P208

P207

P206

N 39°05'12" E 778.91'

PROPOSED R/W 200.00'

178.91'

200.00'

S 47°28'03" W 333.78'

TEMPORARY EASEMENT FOR CONSTRUCTION

S 25°13'57" E 22.52'

200.00'

S 25°13'57" E 35.43'

76.62'

N 47°28'03" E 476.62'

335+00

340+00

4' F.B. SURF. DT.

2' F.B. SURF. DT.

6' F.B. CH. CH.

S 80°35'17" E 46.64'

S 80°35'17" E 175.35'

UNPAVED ROAD

N 74°50'38" E 46.34'

N 81°49'25" E 45.17'

IE 951.7

S 87°24'10" E 85.17'

S 7°47'15" E 129.99'

60" PIPE

N 82°37'51" E 132.42'

S 3°10'37" W 239.95'

31" CMP (REMOVE) PIPE

2' F.B. SURF. DT.

S 5°16'48" W 339.05'

8" NON-PERF. PIPE

N37° 25'37"E

PI 337+52.40

N52° 19'55"E

8" PERF. PIPE

24" OF PIPE TO REMAIN

20" RCP (REMOVE) PIPE

PC Sta 48+38.18

PI Sta 49+05.83

PT Sta 49+38.18

R 35

P 35

STA. 340+00 END TRUCK LANE RT.

765 KV Electric Transmission Line

OE 944.9

4' F.B. SURF. DT.

6' F.B. CH. CH.

2' F.B. SURF. DT.

S 7°40'00" W 45.27'

S 16°07'18" W 384.66'

N 58°47'05" E 194.18'

N 66°33'05" E 73.07'

S 89°06'31" E 191.43'

N 50°34'44" E 1038.00'

109.15'

PROPOSED R/W

N 68°14'42" E 196.52'

PI STA 337+52.40
Δ= 14°54'17" RT
C= 1701.69'
T= 858.10'
L= 1706.50'
R= 6560.00'
m= 55.88
e= 2.6%
Runoff= 72.00'
Runout= 55.00'

SEE SHEET R15A FOR DITCH CONSTRUCTION NOTES

136.81'

PROPOSED R/W 200.00'

S 14°44'35" W 336.81'

200.00'

S 58°28'44" W 733.79'

200.00'

200.00'

PROPOSED R/W

133.79'

200.00'

S 36°37'24" W 590.24'

86.44'

200.00'

S 58°41'36" W 195.09'

200' AEP EASEMENT

P206

MARIE BRANHAM TACKETT (WIDOW)

P207

LORA JEAN STRATTON(WIDOW)
EDFORD CLARK, JR
ROBIN " (WF)
NORA L. CLARK
HAROLD W. COOLEY (HSBD)

P208

JAMES B. NEWMAN
RUBY " (WF)

P208 TRACT C

TEMPORARY EASEMENT FOR CONSTRUCTION

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 330+00 - STA. 345+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa | DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R03100PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R15

MATCH LINE SHEET R15A

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC.	END TREATMENT			BRIDGE END CONN.
			No. 1 (Ea.)	TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	CONN TY A (Ea.)
RT.	332+25 (BARRIER)	12.5'	2				
RT.	336+50 - 345+00	850.0'		1			

CONST. ENT. (WID.)	TRAFFIC BOUND BASE	E. PIPE
LT. STA. 344+00 (30' - 17')	508 TON	43' - 15"
RT. ENT 344+00 STA. 43+50 (15')	22 TON	40' - 15"
RT. ENT 344+00 STA. 44+00 (15')	86 TON	70' - 48"

P207 TRACT B

P207 TRACT A

P206 TRACT A

P208 TRACT A

P208 TRACT C

P207
LORA JEAN STRATTON(WIDOW)
EDFORD CLARK, JR
ROBIN " (WF)
NORA L. CLARK
HAROLD W. COOLEY (HSBD)

P208
JAMES B. NEWMAN
RUBY " (WF)

P206
MARIE BRANHAM TACKETT (WIDOW)

TEMPORARY EASEMENT FOR CONSTRUCTION

TEMPORARY EASEMENT FOR CONSTRUCTION

PROPOSED R/W

UNPAVED ROAD

765 KV Electric Transmission Line

200' AEP EASEMENT

STA. 340+00
END TRUCK LANE RT.

PI STA 337+52.40
Δ= 14°54'17" RT
D= 1701.69'
T= 858.10'
L= 1706.50'
R= 6560.00'
E= 55.88
e= 2.6%
Runoff= 72.00'
Runout= 55.00'

PI Sta 49+05.83
PC Sta 48+10.81
PT Sta 49+38.18

IE 951.7

OE 944.9

SEE SHEET R15A FOR DITCH CONSTRUCTION NOTES

MATCH LINE STA. 330+00

MATCH LINE STA. 345+00

SCALE: 1"= 50'

MAINLINE STA. 330+00 - STA. 345+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\RO3100PL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R15A

DITCH CONSTRUCTION (STA. 330+00 - STA. 345+00 MAIN LINE)							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		330+00 TO 335+00	ROCK CUT	-	-	-	V
X		335+00 to 336+00	CLASS IV	248 C.Y.	1.0'	2.0'	2' FB
X		336+00 TO 339+76	CLASS IV	437 C.Y.	2.0'	2.0'	4' FB
X		339+89 TO 341+00	CLASS IV	69 C.Y.	1.0'	2.0'	2' FB
X		344+85 TO 345+00	CLASS IV	10 C.Y.	1.0'	2.0'	2' FB
	X	330+00 TO 335+50	ROCK CUT	-	-	-	V
	X	335+50 TO 336+50	CLASS IV	123 C.Y.	2.0'	2.0'	V
	X	336+50 TO 342+74	CLASS IV	476 C.Y.	2.0'	2.0'	4' FB
	X	339+64 TO 342+74	CLASS IV	191 C.Y.	1.0'	2.0'	2' FB
	X	342+54 TO 344+00	CLASS IV	183 C.Y.	1.0'	2.0'	2' FB
	X	342+74 TO 345+00	CLASS IV	425 C.Y.	3.0'	2.0'	6' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

NOTE: THIS AREA SHALL BE FILLED TO PROVIDE POSITIVE DRAINAGE TO THE DITCHES AND PIPE NEAR THE MAINLINE. GRADES SHALL BE ADJUSTED IF NECESSARY TO BALANCE THE EARTHWORK.

DITCH CONSTRUCTION (FILL LEFT OF M.L. STA. 341+65)							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
		53+83 TO 54+31	CLASS IV	112 C.Y.	4.0'	2.0'	6' FB
		54+31 TO 68+28	E.C. BLNK.	5042 S.Y.	4.0'	-	6' FB
		68+28 TO 68+77	CLASS IV	116 C.Y.	4.0'	2.0'	6' FB
X		56+00 TO 62+35	E.C. BLNK.	1304 S.Y.	2.0'	-	4' FB
X		62+35 TO 62+61	CLASS IV	37 C.Y.	2.0'	2.0'	4' FB
X		60+50 TO 66+20	E.C. BLNK.	993 S.Y.	2.0'	-	2' FB
X		66+20 TO 66+40	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
	X	55+41 (213')	E.C. BLNK.	347 S.Y.	2.0'	-	2' FB
	X	55+41 (20)	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
	X	60+53 (102)	E.C. BLNK.	166 S.Y.	2.0'	-	2' FB
	X	60+53 (20')	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
	X	62+20 (104)	E.C. BLNK.	169 S.Y.	2.0'	-	2' FB
	X	62+20 (20')	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

P208
JAMES B. NEWMAN
RUBY " (WF)

P208 TRACT B

P208 TRACT A

P207
TRACT B

P207
LORA JEAN STRATTON
EDFORD CLARK, JR
ROBIN " (WF)
NORA L. CLARK
HAROLD W. COOLEY (HSBD)

CHESAPEAKE APPALACHIAN LLC.
WELL 5058B

TEMPORARY EASEMENT FOR ENTRANCE CONSTRUCTION

TEMPORARY EASEMENT FOR CONSTRUCTION

TEMPORARY EASEMENT FOR CONSTRUCTION

UNPAVED ROAD

UNPAVED ROAD

UNPAVED ROAD

2' F.B. SURF. DT.

4' F.B. SURF. DT.

6' F.B. CH. CH.

765 kV Electric Transmission Line

MATCH LINE SHEET R15

SCALE: 1"= 50'

MATCH SHEET

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R0310APL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R15A

DITCH CONSTRUCTION (STA. 330+00 - STA. 345+00 MAIN LINE)							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		330+00 TO 335+00	ROCK CUT	-	-	-	V
X		335+00 to 336+00	CLASS IV	248 C.Y.	1.0'	2.0'	2' FB
X		336+00 TO 339+76	CLASS IV	437 C.Y.	2.0'	2.0'	4' FB
X		339+89 TO 341+00	CLASS IV	69 C.Y.	1.0'	2.0'	2' FB
X		344+85 TO 345+00	CLASS IV	10 C.Y.	1.0'	2.0'	2' FB
	X	330+00 TO 335+50	ROCK CUT	-	-	-	V
	X	335+50 TO 336+50	CLASS IV	123 C.Y.	2.0'	2.0'	V
	X	336+50 TO 342+74	CLASS IV	476 C.Y.	2.0'	2.0'	4' FB
	X	339+64 TO 342+74	CLASS IV	191 C.Y.	1.0'	2.0'	2' FB
	X	342+54 TO 344+00	CLASS IV	183 C.Y.	1.0'	2.0'	2' FB
	X	342+74 TO 345+00	CLASS IV	425 C.Y.	3.0'	2.0'	6' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

NOTE: THIS AREA SHALL BE FILLED TO PROVIDE POSITIVE DRAINAGE TO THE DITCHES AND PIPE NEAR THE MAINLINE. GRADES SHALL BE ADJUSTED IF NECESSARY TO BALANCE THE EARTHWORK.

DITCH CONSTRUCTION (FILL LEFT OF M.L. STA. 341+65)							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
		53+83 TO 54+31	CLASS IV	112 C.Y.	4.0'	2.0'	6' FB
		54+31 TO 68+28	E.C. BLNK.	5042 S.Y.	4.0'	-	6' FB
		68+28 TO 68+77	CLASS IV	116 C.Y.	4.0'	2.0'	6' FB
X		56+00 TO 62+35	E.C. BLNK.	1304 S.Y.	2.0'	-	4' FB
X		62+35 TO 62+61	CLASS IV	37 C.Y.	2.0'	2.0'	4' FB
X		60+50 TO 66+20	E.C. BLNK.	993 S.Y.	2.0'	-	2' FB
X		66+20 TO 66+40	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
	X	55+41 (213')	E.C. BLNK.	347 S.Y.	2.0'	-	2' FB
	X	55+41 (20)	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
	X	60+53 (102)	E.C. BLNK.	166 S.Y.	2.0'	-	2' FB
	X	60+53 (20')	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
	X	62+20 (104)	E.C. BLNK.	169 S.Y.	2.0'	-	2' FB
	X	62+20 (20')	CLASS IV	22 C.Y.	2.0'	2.0'	2' FB
d50 = 1.0' (UNLESS OTHERWISE NOTED)							

P208
JAMES B. NEWMAN
RUBY * (WF)

P208 TRACT B

P208 TRACT A

P207
TRACT B

P207
LORA JEAN STRATTON
EDFORD CLARK, JR
ROBIN * (WF)
NORA L. CLARK
HAROLD W. COOLEY (HSBD)

CHESAPEAKE APPALACHIAN LLC.
WELL 5058B

765 kV Electric Transmission Line

TEMPORARY EASEMENT FOR ENTRANCE CONSTRUCTION

TEMPORARY EASEMENT FOR CONSTRUCTION

TEMPORARY EASEMENT FOR CONSTRUCTION

UNPAVED ROAD

6' F.B. CH. CH.

2' F.B. SURF. DT.

4' F.B. SURF. DT.

15" PIPE

18" PIPE

24" PIPE

MATCH LINE SHEET R15

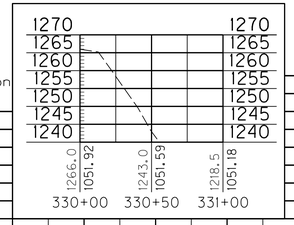
MATCH SHEET

SCALE: 1"= 50'

0' 50' 100' 200'

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO310APL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

P36 is located on the south of an old stip mine road. From the intersection of KY 979 and Tackett Branch Road go north on Tackett Branch road for +/- 0.2 miles to a dirt road on the right. Turn right and follow for +/- 1.06 miles to a dirt road on the left. Turn left and go +/- 0.23 miles to the station on the left. The mark is an iron pin with an aluminum cap.



SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
193,558	657,106	848,958	133,574	9,533	0	17,209	0

SCALE: 1"=50' HORIZ.
1"=20' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R16

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

STA. 335+89 CONST. TRANSVERSE BENCHING W/ 67' OF 8' PERF. PIPE. 32' OF 8' NON-PERF. PIPE & 1 PERF. PIPE HWALL 'Y' 3 - 8 INCH

SPECIAL V BOT. RDWY. DT. LT.

FL 1048.93
FL 1048.18
FL 1047.72
FL 1047.49
FL 1046.99
FL 1046.69
0.5%
0.5%
0.6%
0.92%

SPCL. V BOT. RDWY. DT. RT.

FL 1018.56

12.0%

4' F.B. SURF. DT. RT.

12.0%

4' F.B. DT. 6' F.B. CH. CH. RT.

STA. 340+44
765kV TRANS. LINE
(? WIRE)
ELEV. 1102.81

STA. 340+70
765kV TRANS. LINE
(? WIRE)
ELEV. 1126.71

STA. 340+87
765kV TRANS. LINE
(? WIRE)
ELEV. 1112.50

STA. 341+65 @ 30° SKEW LT.
CONST. 73' OF 60" PIPE w/
TWO 2160 PIPE CULV. HDWLS.

FL 904.56

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	141	958.70
CHECK	100	173	959.46

1266.0	1243.0	1218.5	1202.6	1187.1	1165.9	1141.8	1125.7	1114.4	1106.9	1078.9	1052.7	1013.4	985.3	971.6	967.2	953.7	948.6	937.9	925.2	911.0	895.5	885.0	873.9	875.7	869.0	870.1	868.6	870.1	871.7	868.5
1034.63	1033.94	1033.21	1032.43	1031.61	1030.73	1029.81	1028.84	1027.83	1026.77	1025.66	1024.50	1023.30	1022.05	1020.75	1019.40	1018.01	1016.57	1015.08	1013.55	1011.97	1010.34	1008.66	1006.94	1005.17	1003.35	1001.48	999.57	997.61	995.61	993.55
330+00	330+50	331+00	331+50	332+00	332+50	333+00	333+50	334+00	334+50	335+00	335+50	336+00	336+50	337+00	337+50	338+00	338+50	339+00	339+50	340+00	340+50	341+00	341+50	342+00	342+50	343+00	343+50	344+00	344+50	345+00

PROFILE STA. 330+00 - STA. 345+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0320DPF REV.DGN

P36 is located on the south of an old stip mine road. From the intersection of KY 979 and Tackett Branch Road go north on Tackett Branch road for +/- 0.2 miles to a dirt road on the right. Turn right and follow for +/- 1.06 miles to a dirt road on the left. Turn left and go +/- 0.23 miles to the station on the left. The mark is an iron pin with an aluminum cap.

330+00	330+50	331+00
1266.0	1243.0	1218.5
1051.92	1051.59	1051.18

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
193,558	657,106	848,958	133,574	9,533	0	17,209	0

SCALE: 1"=50' HORIZ.
1"=20' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R16

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

STA. 335+89 CONST. TRANSVERSE BENCHING W/ 67' OF 8' PERF. PIPE. 32' OF 8' NON-PERF. PIPE & 1 PERF. PIPE HWALL 'Y' 3' - 8 INCH

SPECIAL V BOT. RDWY. DT. LT.
FL 1048.93
FL 1048.18
FL 1047.72
0.5%
0.5%
0.6%
0.92%
FL 1047.49
FL 1046.99
FL 1046.69
SPCL. V BOT. RDWY. DT. RT.

FL 1018.56

12.0%

4' F.B. SURF. DT. RT.

12.0%

4' F.B. DT. 6' F.B. CH. CH. RT.

FL 904.56

STA. 340+44
765kV TRANS. LINE
(? WIRE)
ELEV. 1102.81

STA. 340+70
765kV TRANS. LINE
(? WIRE)
ELEV. 1126.71

STA. 340+87
765kV TRANS. LINE
(? WIRE)
ELEV. 1112.50

STA. 341+65 @ 30° SKEW LT.
CONST. 73' OF 60" PIPE w/
TWO 2160 PIPE CULV. HDWLS.

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	141	958.70
CHECK	100	173	959.46

330+00	330+50	331+00	331+50	332+00	332+50	333+00	333+50	334+00	334+50	335+00	335+50	336+00	336+50	337+00	337+50	338+00	338+50	339+00	339+50	340+00	340+50	341+00	341+50	342+00	342+50	343+00	343+50	344+00	344+50	345+00
1266.0	1243.0	1218.5	1202.6	1187.1	1165.9	1141.8	1125.7	1114.4	1106.9	1078.9	1052.7	1013.4	985.3	971.6	967.2	953.7	948.6	937.9	925.2	911.0	895.5	885.0	873.9	875.7	869.0	870.1	868.6	870.1	871.7	868.5
1034.63	1033.94	1033.21	1032.43	1031.61	1030.73	1029.81	1028.84	1027.83	1026.77	1025.66	1024.50	1023.30	1022.05	1020.75	1019.40	1018.01	1016.57	1015.08	1013.55	1011.97	1010.34	1008.66	1006.94	1005.17	1003.35	1001.48	999.57	997.61	995.61	993.55

PROFILE STA. 330+00 - STA. 345+00

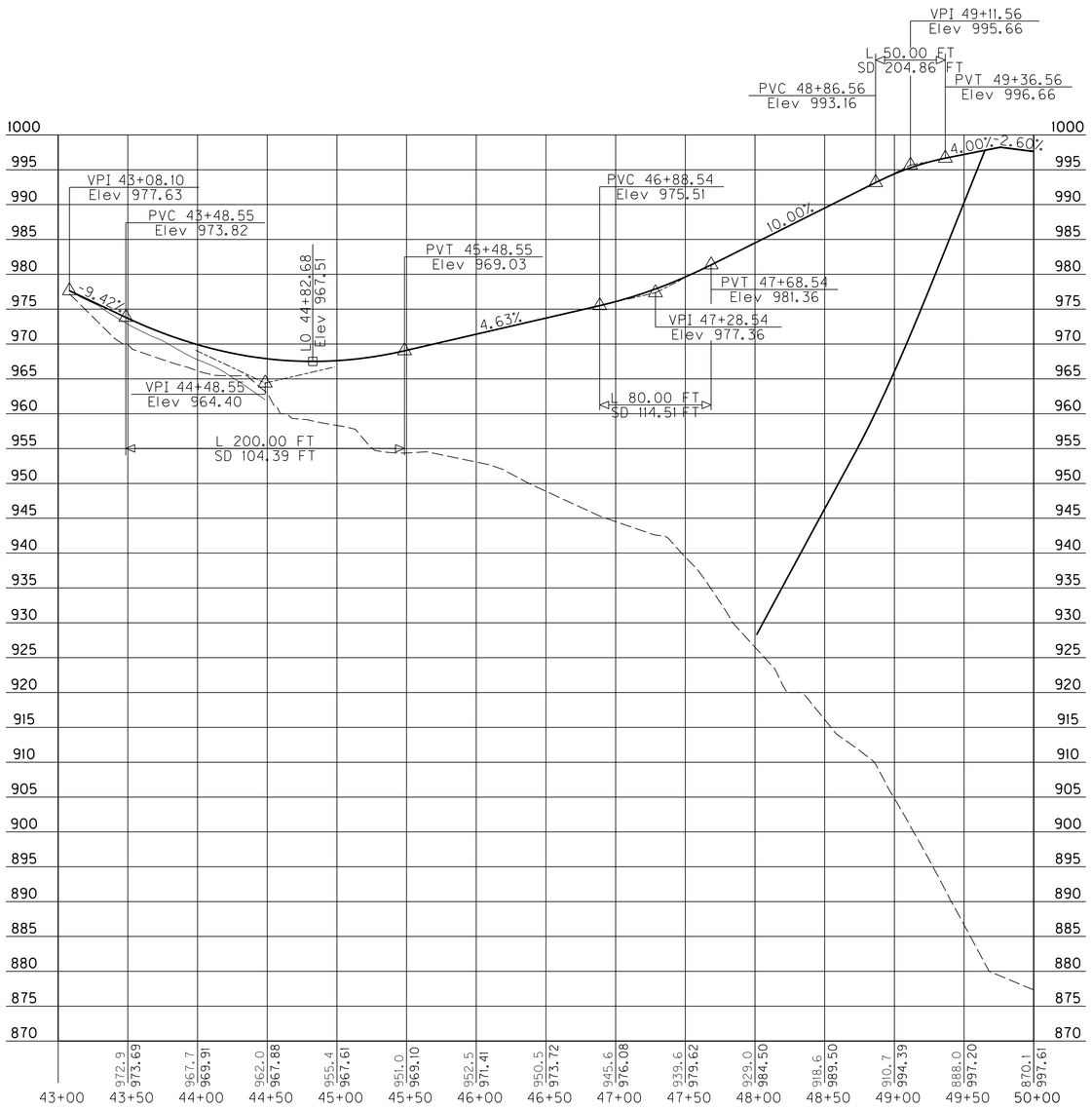
MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0320OPF REV.DGN

DATUM

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R16A

DATUM



PROFILE ENTRANCE STA. 344+00 LT.

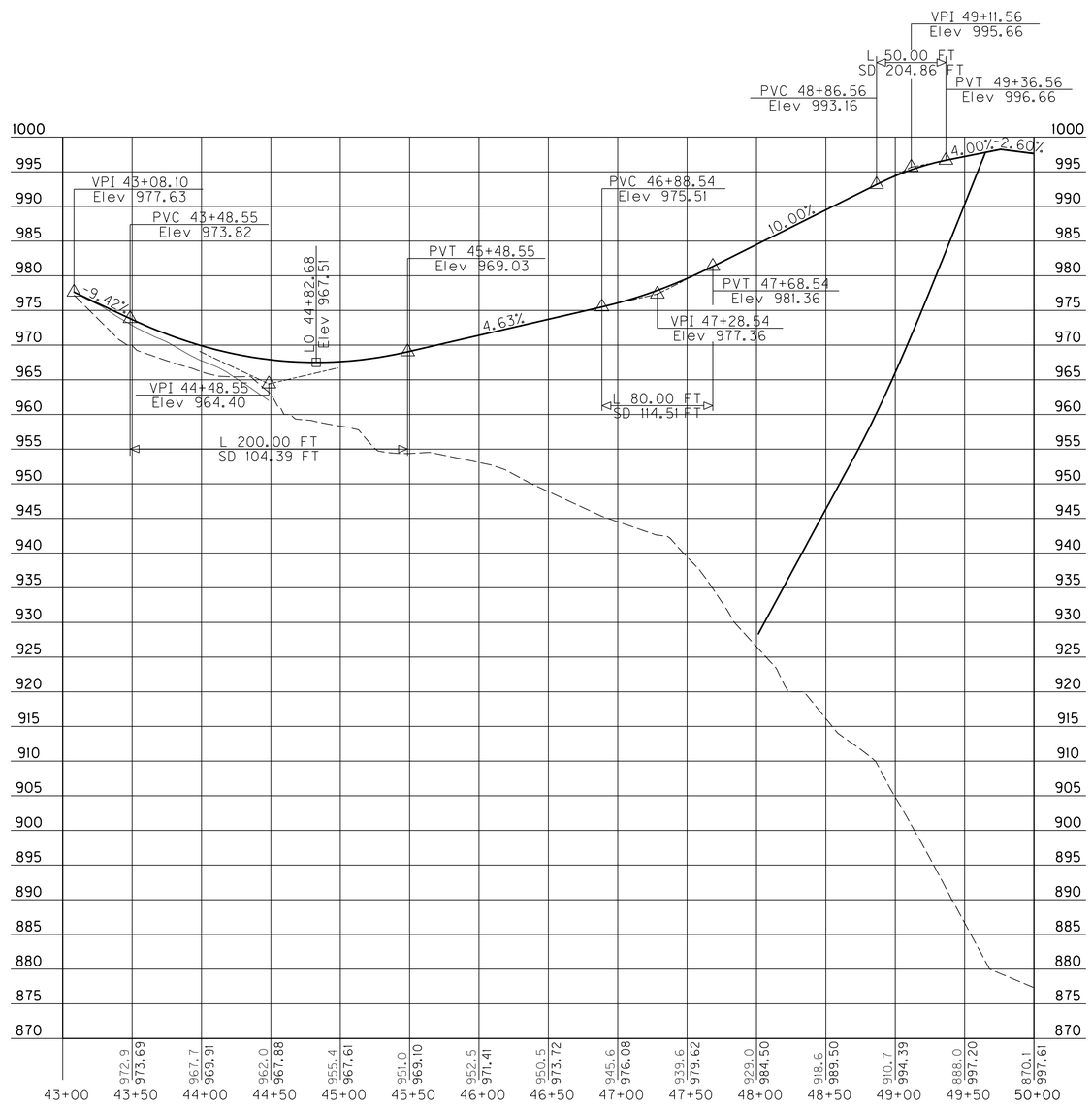
MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\ENTRANCESS2.DGN

DATUM

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R16A

DATUM



PROFILE ENTRANCE STA. 344+00 LT.

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\ENTRANCESS2.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R17

CAUTION — HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

PI STA 358+15.09
Δ= 2°08'15" LT
D= 9°21'49"
T= 305.83'
L= 611.80'
R= 612.00'
E= 2.85'
e= NC
Runoff= N/A
Runout= N/A

MATCH LINE STA. 345+00

MATCH LINE STA. 360+00

P208 JAMES B. NEWMAN RUBY " (WF)

N 50°34'44" E 1038.00'

350+00

355+00

N 62°07'15" E 1075.92'

PROPOSED R/W

N 45°12'10" E 198.11'

N 65°26'45" E 97.84'

N 46°50'23" E 203.46'

N 52°09'17" E 105.27'

N 64°30'59" E 183.91'

N 41°08'23" E 100.63'

N 17°54'04" E 122.4'

N 50°03'13" E 105.60'

N 78°50'57" E 291.59'

N 57°03'18" E 677.04'

200.00'

2' F.B. SURF. DT.

UNPAVED ROAD

P208 TRACT A

M19 932.11

M20 934.23

IE 901.8

IE 880.50

IE 887.85

36" PIPE

30" PIPE

18" P

PC 355+09

3' F.B. SURF. DT.

3' F.B. INLET DT.

STA. 346+00 END TRUCK LANE TAPER RT.

N52°19'55"E

PT 346+00.81

PI STA 358+15.09

ABAND. HOUSE

21" OF 24" CMP (REMOVE)

N 44°29'30" E 154.58'

N 89°22'55" E 69.53'

N 75°42'00" E 65.75'

N 51°47'02" E 167.04'

N 89°06'30" E 22.56'

S 60°01'58" E 2.93'

S 30°40'33" W 89.17'

S 30°08'51" W 72.01'

S 59°25'38" W 136.13'

S 44°47'19" W 93.48'

S 64°58'44" W 95.36'

S 37°27'27" W 27.31'

S 64°17'47" W 34.18'

S 60°08'31" W 48.28'

S 57°17'29" W 91.45'

S 49°59'38" W 241.85'

S 63°33'54" W 46.51'

S 50°38'06" W 56.92'

S 28°24'03" W 60.83'

OE 896.0

3' F.B. OUTLET DT.

6' F.B. CH.CH.

P206 TRACT A

P214

EQT WELL #5366

2' F.B. SURF. DT.

4" GASLINE KY-WV GAS

GM

EXISTING R/W

PROPOSED R/W

S 36°37'24" W 590.24'

200.00'

190.24'

S 45°49'11" W 61.99'

S 37°30'49" E 13.58'

S 25°02'44" E 31.04'

S 24°15'37" E 44.01'

PI STA 337+52.40
Δ= 14°54'17" RT
D= 3°15'49"
T= 858.10'
L= 1706.50'
R= 1755.00'
E= 55.88'
e= 2.6%
Runoff= 72.00'
Runout= 55.00'

P206 MARIE BRANHAM TACKETT (WIDOW)

P214 EQT GATHERING, LLC GAS WELL ONLY

SARAH TACKETT, ET. AL.

DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		345+00 TO 352+60	CLASS IV	471 C.Y.	1.0'	2.0'	2' FB
X		350+80 TO 352+50	CLASS IV	290 C.Y.	2.0'	2.0'	3' FB
X		353+00 TO 356+50	CLASS IV	313 C.Y.	2.0'	2.0'	3' FB
X		355+07 TO 355+16	CLASS IV	11 C.Y.	1.0'	2.0'	2' FB
X		355+48 TO 355+57	CLASS IV	11 S.Y.	1.0'	2.0'	2' FB
X		357+00 TO 358+00	E.C. BLNK.	125 C.Y.	2.0'	-	2' FB
X		358+00 TO 360+00	CLASS IV	123 C.Y.	1.0'	2.0'	2' FB
	X	345+00 TO 349+50	CLASS IV	828 C.Y.	3.0'	2.0'	6' FB
	X	349+50 TO 360+00	CLASS IV•	2927 C.Y.	3.0'	3.0'	6' FB
	X	347+11 TO 347+99	CLASS IV	125 C.Y.	1.0'	2.0'	2' FB
	X	354+68 TO 355+45	CLASS IV	126 C.Y.	1.0'	2.0'	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 1.5'

STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	345+00 TO 360+00	1500.0'					
LT.	344+17 TO 359+83	1600.0'	2				

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 345+00 - STA. 360+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0330OPL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R17

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

PI STA 358+15.09
Δ= 2°08'15" LT
D= 611.76'
T= 305.83'
L= 611.80'
R= 16400.00'
E= 2.85'
e= NC
Runoff= N/A
Runout= N/A'

PI STA 337+52.40
Δ= 14°54'17" RT
D= 1701.69'
T= 858.10'
L= 1706.50'
R= 6560.00'
E= 55.88'
e= 2.6%
Runoff= 72.00'
Runout= 55.00'

MATCH LINE STA. 345+00

MATCH LINE STA. 360+00

N 50°34'44" E 1038.00'

N 45°12'10" E 198.11' PROPOSED R/W

N 65°26'45" E 97.84'

N 46°50'23" E 203.46'

N 52°09'17" E 105.27'

N 64°30'59" E 183.91'

N 41°08'23" E 100.63'

N 17°54'04" E 122.4'

N 50°03'13" E 105.60'

PROPOSED R/W

N 62°07'15" E 1075.92'

N 78°50'57" E 291.59'

N 57°03'18" E 677.04'

200.00'

3' F.B. INLET DT.

2' F.B. SURF. DT.

2' F.B. SURF. DT.

2' F.B. SURF. DT.

2' F.B. SURF. DT.

3' F.B. SURF. DT.

2' F.B. SURF. DT.

UNPAVED ROAD

UNPAVED ROAD

P208 JAMES B. NEWMAN RUBY " (WF)

P208 TRACT A

M19 932.11

M20 934.23

IE 901.8

IE 880.50

IE 887.85

PC 355+09

36" PIPE

30" PIPE

18" P

STA. 346+00 END TRUCK LANE TAPER RT.

N52°19'55"E

PT 346+00.81

PI STA 358+15.09

ABAND. HOUSE

21" OF 24" CMP PIPE (REMOVE)

N 44°29'30" E 154.58'

N 89°22'55" E 69.53'

N 75°42'00" E 65.75'

N 51°47'02" E 167.04'

N 89°06'30" E 22.56'

S 68°01'58" E 29.93'

S 30°40'33" W 89.17'

S 30°08'51" W 72.01'

S 59°25'38" W 136.18'

S 44°47'19" W 93.48'

S 64°58'44" W 95.36'

S 37°27'27" W 27.31'

S 64°17'47" W 34.18'

S 60°08'31" W 48.28'

S 57°17'29" W 91.45'

S 49°59'38" W 241.85'

S 63°33'54" W 46.51'

S 50°38'06" W 56.92'

S 28°24'03" W 60.83'

OE 896.0

3' F.B. OUTLET DT.

3' F.B. OUTLET DT.

OE 895.25

6' F.B. CH.CH.

6' F.B. CH.CH.

6' F.B. CH.CH.

6' F.B. CH.CH.

P206 TRACT A

P214

P206

P214

EQT WELL #5366

S 37°30'49" E 13.58'

S 25°02'44" E 31.04'

S 24°15'31" E 44.01'

S 45°49'11" W 61.99'

190.24'

S 36°37'24" W 590.24'

200.00'

PROPOSED R/W

EXISTING R/W

EXISTING R/W

4" GASLINE KY-WV GAS

GM

P206 MARIE BRANHAM TACKETT (WIDOW)

P214 EQT GATHERING, LLC GAS WELL ONLY

SARAH TACKETT, ET. AL.

DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		345+00 TO 352+60	CLASS IV	471 C.Y.	1.0'	2.0'	2' FB
X		350+80 TO 352+50	CLASS IV	290 C.Y.	2.0'	2.0'	3' FB
X		353+00 TO 356+50	CLASS IV	313 C.Y.	2.0'	2.0'	3' FB
X		355+07 TO 355+16	CLASS IV	11 C.Y.	1.0'	2.0'	2' FB
X		355+48 TO 355+57	CLASS IV	11 S.Y.	1.0'	2.0'	2' FB
X		357+00 TO 358+00	E.C. BLNK.	125 C.Y.	2.0'	-	2' FB
X		358+00 TO 360+00	CLASS IV	123 C.Y.	1.0'	2.0'	2' FB
	X	345+00 TO 349+50	CLASS IV	828 C.Y.	3.0'	2.0'	6' FB
	X	349+50 TO 360+00	CLASS IV•	2927 C.Y.	3.0'	3.0'	6' FB
	X	347+11 TO 347+99	CLASS IV	125 C.Y.	1.0'	2.0'	2' FB
	X	354+68 TO 355+45	CLASS IV	126 C.Y.	1.0'	2.0'	2' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 1.5'

STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	345+00 TO 360+00	1500.0'					
LT.	344+17 TO 359+83	1600.0'	2				

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 345+00 - STA. 360+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R0330OPL.DGN

DATUM

P35 is located in the middle of a grass road on the strip mine. From the intersection of KY 979 and Tackett Branch Road go north on Tackett Branch Road for +/- 0.2 miles to an old strip mine road on the right. Turn right and follow for +/- 1.06 miles to a dirt road to the left. Turn left and then onto the grass road and to the station. The mark is an iron pin with an aluminum cap.

M19 is located on the north side of an old strip mine road. From the intersection of KY 979 and Tackett Branch Road go north on Tackett Branch Road for +/- 0.2 miles to an old strip to the right. Turn right and follow for +/- 1.02 miles to the station on the north side of the road just east of a set of transmission lines. The mark is a concrete monument with an aluminum disk and is set flush with the ground.

M20 is located on the north side of an old strip mine road. Fom the interscton of KY 979 and Tackett Branch Road, go north on Tackett Branch Road for +/- 0.2 miles to an old strip mine road to the right. Turn right and follow for +/- 0.8 miles to the station on the right. The mark is a concrete monument with an aluminum disk and is set flush with the ground.

SCALE: 1"=50' HORIZ.
1"=20' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R18

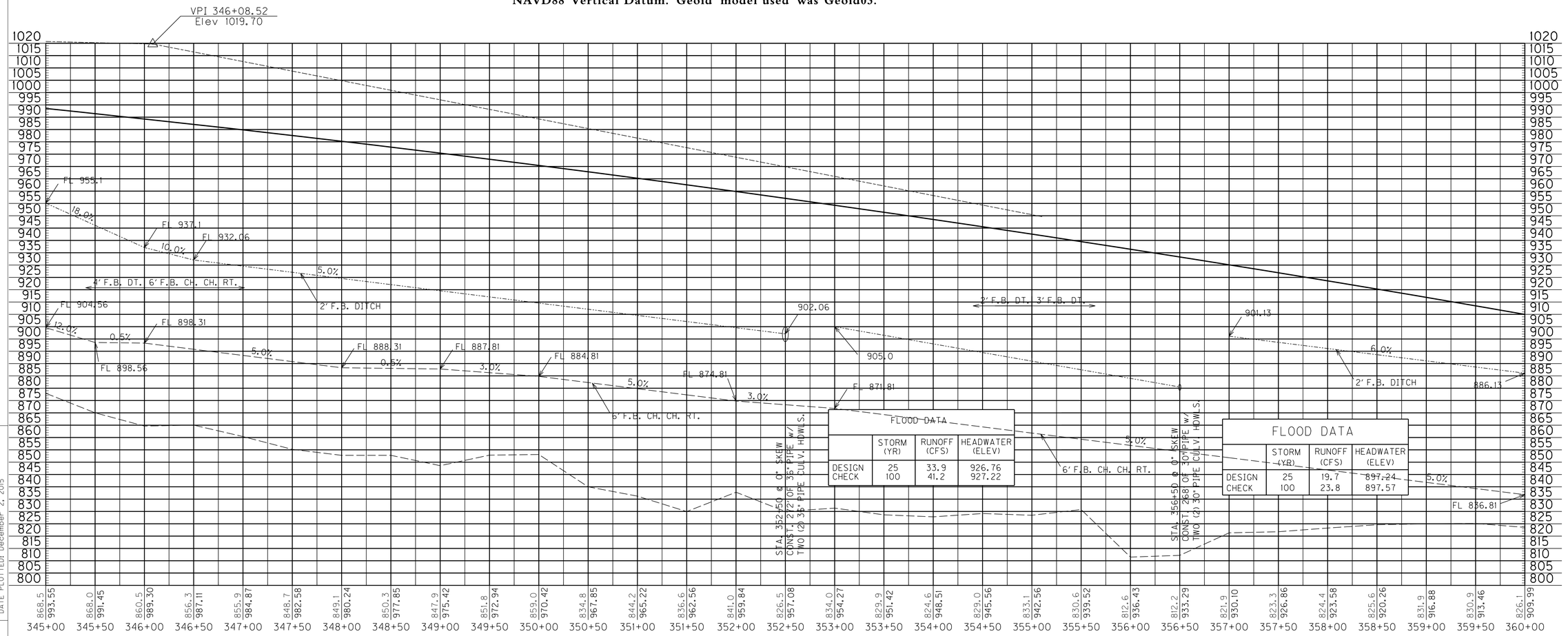
DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
0	0	1,325,947	186,302	7,778	0	0	0



PROFILE STA. 345+00 - STA. 360+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R0340PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

DATUM

P35 is located in the middle of a grass road on the strip mine. From the intersection of KY 979 and Tackett Branch Road go north on Tackett Branch Road for +/- 0.2 miles to an old strip mine road on the right. Turn right and follow for +/- 1.06 miles to a dirt road to the left. Turn left and then onto the grass road and to the station. The mark is an iron pin with an aluminum cap.

M19 is located on the north side of an old strip mine road. From the intersection of KY 979 and Tackett Branch Road go north on Tackett Branch Road for +/- 0.2 miles to an old strip to the right. Turn right and follow for +/- 1.02 miles to the station on the north side of the road just east of a set of transmission lines. The mark is a concrete monument with an aluminum disk and is set flush with the ground.

M20 is located on the north side of an old strip mine road. Fom the interscton of KY 979 and Tackett Branch Road, go north on Tackett Branch Road for +/- 0.2 miles to an old strip mine road to the right. Turn right and follow for +/- 0.8 miles to the station on the right. The mark is a concrete monument with an aluminum disk and is set flush with the ground.

SCALE: 1"=50' HORIZ.
1"=20' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R18

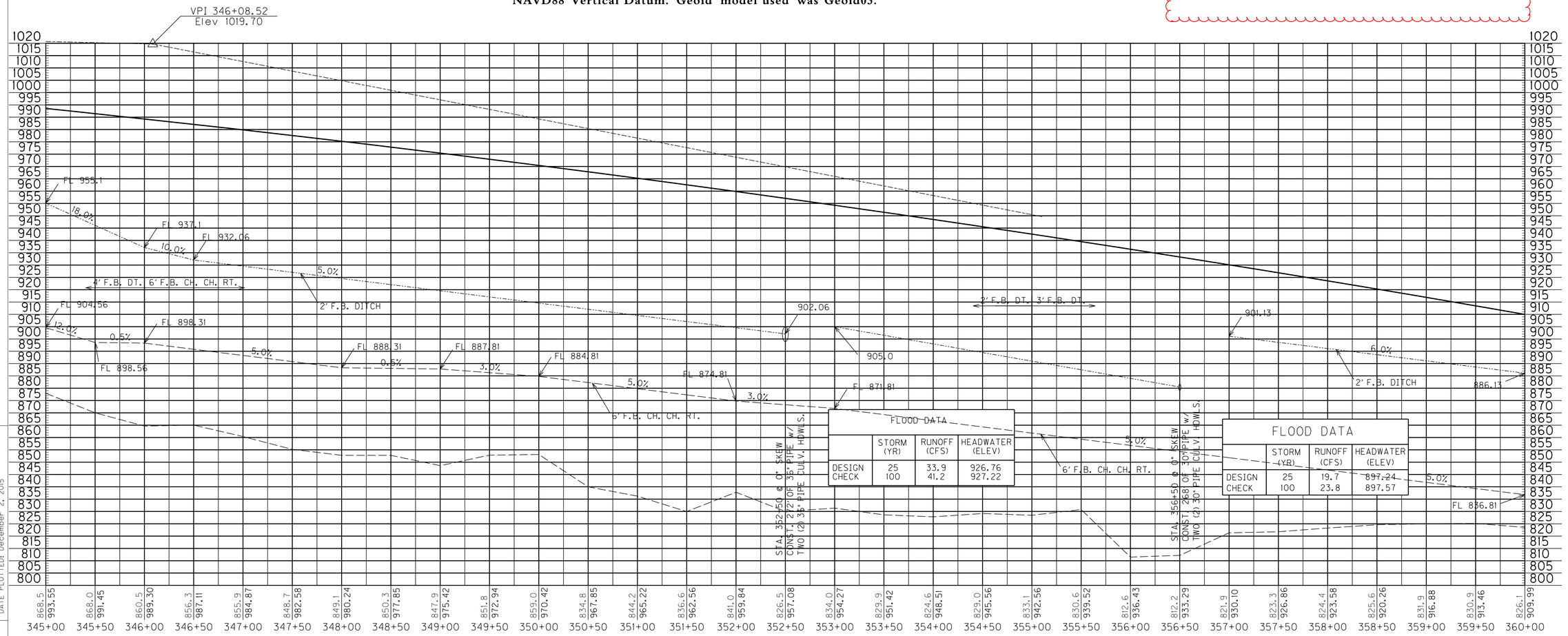
DATUM

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
0	0	1,325,947	186,302	7,778	0	0	0



PROFILE STA. 345+00 - STA. 360+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R0340PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R19

PI STA 358+15.09
Δ= 2°08'15" LT
C= 611.76'
T= 305.93'
L= 611.80'
R= 16400.00'
E= 2.85'
e= NC
Runoff= N/A
Runout= N/A

P208
JAMES B. NEWMAN
RUBY " (WF)

MATCH LINE STA. 360+00

MATCH LINE STA. 375+00

365+00

370+00

PT. 362+20.95

N 62°07'15" E
107.5.92'

N 57°03'18" E
677.04'
200.00'

200.00' PROPOSED R/W

N 50°48'38" E
282.61'

N 28°19'48" E
94.0'

N 42°58'38" E
697.24'

N 64°26'52" E
20.70'

N 60°54'12" E
36.13'

S 26°23'25" E
105.02'

S 55°20'52" E
55.23'

S 42°35'32" E
77.17'

S 50°24'48" W
168.86'

N50° 11'40"E

S 50°38'06" W
56.92'

S 26°47'06" W
175.14'

S 37°44'12" W
26.40'

S 58°45'59" W
58.60'

S 30°04'32" W
82.28'

S 66°38'47" W
111.9'

S 50°37'43" W
136.75'

S 62°34'28" W
59.59'

S 38°46'45" W
47.13'

UNPAVED ROAD

POND

TACKETT BRANCH

PAVED

DONALD RAY & CAROLYN (WF)
TACKETT
MELISSA & LARRY (HB)
KIDD

MARGARET CARROLL
EVERETT " (HUSB)

EXISTING R/W
3' F.B. SURF. DT.

2' F.B. SURF. DT.

3' F.B. SURF. DT.

4' F.B. OUTLET DT.

OE 883.41

IE 808.6

IE 784.63

OE 779.5

OE 803.34

IE 799.06

IE 796.52

P208
TRACT A

1-S-F RES

F-SHED

DBL WD TRAILER

BLK CAB

F BARN

BLK

GRAVEL

9' F.B. CH

8' F.B. CH.CH.

6' F.B. CH.CH.

6' F.B. CH.CH. 8' F.B. CH.CH.

48" PIPE

30" PIPE

315mm CMP

24" PIPE

KENTUCKY - WEST VIRGINIA 4" GAS LINE

2" GASLINE KY-WV GAS

4" GASLINE KY-WV GAS

GM

TEMPORARY EASEMENT FOR CONSTRUCTION

SHERMAN LEE HALL

SARAH TACKETT, ET. AL.

EXISTING R/W

R 25

E-T-TV

STEEL "W" BEAM GUARDRAIL CONSTRUCTION							
LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
LT.	360+17 TO 375+00	1500.0'	1				
RT.	360+00 TO 370+92	1112.5'	1				
LT.	362+57 (BARRIER)	12.5'	2				
RT.	371+08 TO 375+00	400.0'	1				

DITCH CONSTRUCTION							
LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		360+00 TO 365+00	CLASS IV	312 C.Y.	1.0'	2.0'	2' FB
X		365+00 TO 369+00	CLASS IV	362 C.Y.	2.0'	2.0'	3' FB
X		369+50 TO 374+00	CLASS IV	282 C.Y.	1.0'	2.0'	2' FB
X		374+50 TO 375+00	CLASS IV	31 C.Y.	1.0'	2.0'	2' FB
X		374+98 TO 375+29	CLASS IV	261 C.Y.	2.0'	3.0'	6' FB
X		373+18 TO 374+00	CLASS IV	184 C.Y.	2.0'	3.0'	8' FB
	X	360+00 TO 364+00	CLASS IV•	1114 C.Y.	3.0'	4.0'	8' FB
	X	364+00 TO 372+00	CLASS IV••	2405 C.Y.	3.0'	4.0'	10' FB
	X	372+00 TO 375+00	GABION MATTRESS DITCH GEOTEX TY1	573 TONS 1030 SQ.Y.	3.0'	1.0' 1.5' -	9' FB
	X	360+97 (329')	CLASS IV	202 C.Y.	1.0'	2.0'	2' FB
	X	365+64 (88')	CLASS IV	54 C.Y.	2.0'	3.0'	4' FB
	X	366+48 (112')	CLASS IV	69 C.Y.	2.0'	3.0'	4' FB
	X	373+30 (107')	CLASS IV	66 C.Y.	2.0'	3.0'	4' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 1.5' •• d50 = 2.0'

CONST. ENT.	(WID.)	TRAFFIC BOUND BASE	C.S.B	ASPH. BASE	ASPH. SURF.	E. PIPE	S&F HDWL.	MES TYPE 1
LT. STA. 360+00	(15')	69 TON				65' - 18"	2 - 18"	
RT. STA. 371+00	(12')		149 TON	50 TON	21 TON	211' - 48"		2 - 48"

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 360+00 - STA. 375+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R03500PL.DGN
USER: lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R19

PI STA 358+15.09
Δ= 2°08'15" LT
C= 611.76'
T= 305.93'
L= 611.80'
R= 16400.00'
E= 2.85'
e= NC
Runoff= N/A
Runout= N/A

P208
JAMES B. NEWMAN
RUBY " (WF)

MATCH LINE STA. 360+00

MATCH LINE STA. 375+00

365+00

370+00

PT. 362+20.95

N 62°07'15" E
1075.92'

N 57°03'18" E
677.04'
200.00'

200.00'

PROPOSED R/W

N 42°58'38" E
697.24'

N 50°48'38" E
282.61'

N 28°19'48" E
94.10'

N 64°26'52" E
20.70'

S 26°23'25" E
105.12'

N 60°54'12" E
36.13'

S 55°05'48" E
55.23'

S 42°35'32" E
77.17'

S 50°24'48" W
168.86'

N50° 11'40"E

S 50°38'06" W
56.92'

S 26°41'06" W
175.14'

S 37°44'12" W
26.40'

S 58°45'59" W
58.60'

S 30°04'32" W
82.28'

S 66°38'47" W
111.97'

S 50°37'43" W
136.75'

S 62°34'28" W
59.59'

S 38°46'45" W
47.13'

UNPAVED ROAD

POND

TACKETT BRANCH

2' F.B. DT. 3' F.B. DT.

2' F.B. SURF. DT.

3' F.B. SURF. DT.

4' F.B. OUTLET DT.

OE 883.41

IE 808.6

IE 784.63

OE 779.5

OE 803.34

IE 799.06

IE 796.52

PAVED

GRAVEL

9' F.B. CH

8' F.B. CH.CH.

6' F.B. CH.CH.

6' F.B. CH.CH. 8' F.B. CH.CH.

48" PIPE

30" PIPE

24" PIPE

315mm CMP

F-SHED

DBL WD TRAILER

BLK CAB

1-S-F RES

F BARN

CR

E-T-TV

EXISTING R/W

3' F.B. SURF. DT.

2' F.B. SURF. DT.

MARGARET CARROLL EVERETT " (HUSB)

DONALD RAY & CAROLYN (WF) TACKETT
MELISSA & LARRY (HB) KIDD

P208
TRACT A

21-84

21-97

KENTUCKY - WEST VIRGINIA 4" GAS LINE

2" GASLINE KY-WV GAS

4" GASLINE KY-WV GAS

GM

TEMPORARY EASEMENT FOR CONSTRUCTION

SHERMAN LEE HALL

SARAH TACKETT, ET. AL.

EXISTING R/W

STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
LT.	360+17 TO 375+00	1500.0'	1				
RT.	360+00 TO 370+92	1112.5'	1				
LT.	362+57 (BARRIER)	12.5'	2				
RT.	371+08 TO 375+00	400.0'	1				

DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		360+00 TO 365+00	CLASS IV	312 C.Y.	1.0'	2.0'	2' FB
X		365+00 TO 369+00	CLASS IV	362 C.Y.	2.0'	2.0'	3' FB
X		369+50 TO 374+00	CLASS IV	282 C.Y.	1.0'	2.0'	2' FB
X		374+50 TO 375+00	CLASS IV	31 C.Y.	1.0'	2.0'	2' FB
X		374+98 TO 375+29	CLASS IV	261 C.Y.	2.0'	3.0'	6' FB
X		373+18 TO 374+00	CLASS IV	184 C.Y.	2.0'	3.0'	8' FB
	X	360+00 TO 364+00	CLASS IV•	1114 C.Y.	3.0'	4.0'	8' FB
	X	364+00 TO 372+00	CLASS IV••	2405 C.Y.	3.0'	4.0'	10' FB
	X	372+00 TO 375+00	GABION MATTRESS DITCH GEOTEX TY1	573 TONS 1030 SQ.Y.	3.0'	1.0' 1.5' -	9' FB
	X	360+97 (329')	CLASS IV	202 C.Y.	1.0'	2.0'	2' FB
	X	365+64 (88')	CLASS IV	54 C.Y.	2.0'	3.0'	4' FB
	X	366+48 (112')	CLASS IV	69 C.Y.	2.0'	3.0'	4' FB
	X	373+30 (107')	CLASS IV	66 C.Y.	2.0'	3.0'	4' FB

d50 = 1.0' (UNLESS OTHERWISE NOTED) • d50 = 1.5' •• d50 = 2.0'

CONST. ENT.	(WID.)	TRAFFIC BOUND BASE	C.S.B	ASPH. BASE	ASPH. SURF.	E. PIPE	S&F HDWL.	MES TYPE 1
LT. STA. 360+00	(15')	69 TON				65' - 18"	2 - 18"	
RT. STA. 371+00	(12')		149 TON	50 TON	21 TON	211' - 48"		2 - 48"

CAUTION	HAZARDOUS OR FLAMMABLE MATERIALS - GAS LINES

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 360+00 - STA. 375+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\R03500PL.DGN
USER: lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
0	0	612,817	186,069	7,824	0	1,521	0

SCALE: 1"=50' HORIZ.
1"=10' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R20

P36 is located north of an old strip mine road on the south side of a dirt trail on the top of an old strip mine bench. From the intersection of KY 979 and Tackett Branch Road, go north on Tackett Branch Road for +/- 0.2 miles to an old strip mine road to the right. Turn right and follow for +/- 0.62 miles to a dirt trail on the right. Turn right and follow trail for +/- 0.09 miles north then east to the station on the right. The mark is an iron pin with an aluminum cap.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

PT 361+20.95
L 3610.00 FT
SD 1069.07 FT

FL 886.13
6.0%
PVT 364+13.52
Elev 879.48
FL 870.63
2' F.B. DT. LT. 3' F.B. DT. LT.
7.71%
12.0%
FL 836.81
5.0%
6' F.B. CH. CH. RT. 8' F.B. CH. CH. RT.
6' F.B. CH. CH. RT.
FL 816.81
8.0%
FL 828.63
PVC 372+01.54
Elev 818.26
FL 808.63
FL 805.0
8.0%
2.0%
FL 800.81
FL 796.81
0.5%
FL 796.31
5.0%
4.0%
8' F.B. CH. CH. RT. 9' F.B. CH. CH. RT.
L 680.00 FT
SD 636.43 FT
FL 782.31
FL 782.5
2.5%
9.0%
FL 778.55
FL 759.8

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	15.9	797.65
CHECK	100	19.5	797.93

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	80	834.77
CHECK	100	98	835.57

STA. 368+15
ELEC. LINE
(2 WIRES)
ELEV. 775.16

STA. 368+42
TELEPHONE LINE
(2 WIRES)
ELEV. 764.48

STA. 369+00 @ 0° SKEW
CONST. 178' OF 48" PIPE W/
TWO (2) 48" PIPE CULV. HDWL.

STA. 370+23
ELEC. LINE
(2 WIRES)
ELEV. 772.70

STA. 370+16
TELEPHONE LINE
(2 WIRES)
ELEV. 760.22

STA. 374+00 @ 0° SKEW
CONST. 135' OF 30" PIPE W/
TWO (2) 30" PIPE CULV. HDWL.

360+00	360+50	361+00	361+50	362+00	362+50	363+00	363+50	364+00	364+50	365+00	365+50	366+00	366+50	367+00	367+50	368+00	368+50	369+00	369+50	370+00	370+50	371+00	371+50	372+00	372+50	373+00	373+50	374+00	374+50	375+00
826.1	822.5	820.8	820.0	816.2	824.0	828.1	824.1	818.8	809.4	783.3	779.4	759.1	746.1	738.7	737.0	735.6	733.8	739.0	736.4	730.6	731.8	730.8	726.1	727.1	725.0	724.9	722.8	720.4	720.9	721.8
909.99	906.47	902.90	899.29	895.63	891.93	888.17	884.37	880.53	876.64	872.76	868.88	864.99	861.11	857.22	853.34	849.46	845.57	841.69	837.80	833.92	830.03	826.15	822.27	818.38	814.57	810.93	807.44	804.12	800.96	797.97

PROFILE STA. 360+00 - STA. 375+00

FILE NAME: X:\HIGHWAYS\PROJECTS\V2301.2E\2015\RO3600PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R20

SCALE: 1"=50' HORIZ.
1"=10' VERT.

SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
0	0	612,817	186,069	7,824	0	1,521	0

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

P38 is located north of an old strip mine road on the south side of a dirt trail on the top of an old strip mine bench. From the intersection of KY 979 and Tackett Branch Road, go north on Tackett Branch Road for +/- 0.2 miles to an old strip mine road to the right. Turn right and follow for +/- 0.62 miles to a dirt trail on the right. Turn right and follow trail for +/- 0.09 miles north then east to the station on the right. The mark is an iron pin with an aluminum cap.

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	80	834.77
CHECK	100	98	835.57

FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	15.9	797.65
CHECK	100	19.5	797.93

FILE NAME: X:\HIGHWAYS\PROJECTS\12301_2E\2013\R03600PF REV.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

PROFILE STA. 360+00 - STA. 375+00

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R21

PI STA 379+72.77
Δ= 21°32'28" LT
C= 240.75'
Ts= 333.54'
Ls= 210.00'
Lc= 241.15'
θs= 5°00'48"
LT= 140.06'
ST= 70.05'
R= 1200.00'
E= 23.08'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

PI STA 390+81.85
Δ= 41°48'57" LT
C= 657.28'
Ts= 563.98'
Ls= 210.00'
Lc= 665.79'
θs= 5°00'48"
LT= 140.06'
ST= 70.05'
R= 1200.00'
E= 23.08'
e= 7.8%
Runoff= 210.00'
Runout= 46.00'

STA. 389+27.10 CONSTRUCT 64' OF EDGE KEY

MAINLINE STA. 389+27.10
END CONSTRUCTION

MARGARET CARROLL EVERETT " (HUSB)

ANDY STEVEN HALL DELLA " (WF)

MATCH LINE STA. 375+00

MATCH LINE STA. 390+00

380+00

385+00

P39 910.42

TS 376+39.23

CS 378+49.23

CS 380+90.39

ST 383+00.39

TS 385+17.87

SC 387+27.87

2' F.B. SURF. DT.

3' F.B. SURF. DT.

EXISTING R/W

N50°11'40"E

N28°39'12"E

IE 767.3

IE 764.2

4' F.B. OUTLET DT.

& 10' ROCK BERM

9' F.B. CH.

DBI TYPE 1
T/G 762.45
IE 758.75

OE 756.8

PI 379+72.77

R 50

2' F.B. OUTLET DT.

KY. - W.VA. GAS WELL #5188 IE 698.88

GAS LINE MARKERS

SHERMAN LEE HALL

KENAS HALL BARBARA " (WF)

JOE HALL JR.

JAMES DAVID HALL

METER HOUSE

1" STEEL GAS LINE

BLOWOFF

(2)¾" VALVES

EQUITABLE PRODUCTION 3" STEEL GATHERING LINE

1" STEEL GAS LINES

STA. 54+60.66 CONSTRUCT 52' OF EDGE KEY

PI 54+63.07

0' 50' 100' 200'

SCALE: 1"= 50'

MAINLINE STA. 375+00 - STA. 390+00

STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	TY 2A (Ea.)	TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	375+00 TO 384+07.30•	1337.5'					
LT.	375+00 TO 378+00	300.0'		1			
LT.	384+33 (BARRIER)	12.5'	2				

• TIE TO EXISTING GUARDRAIL

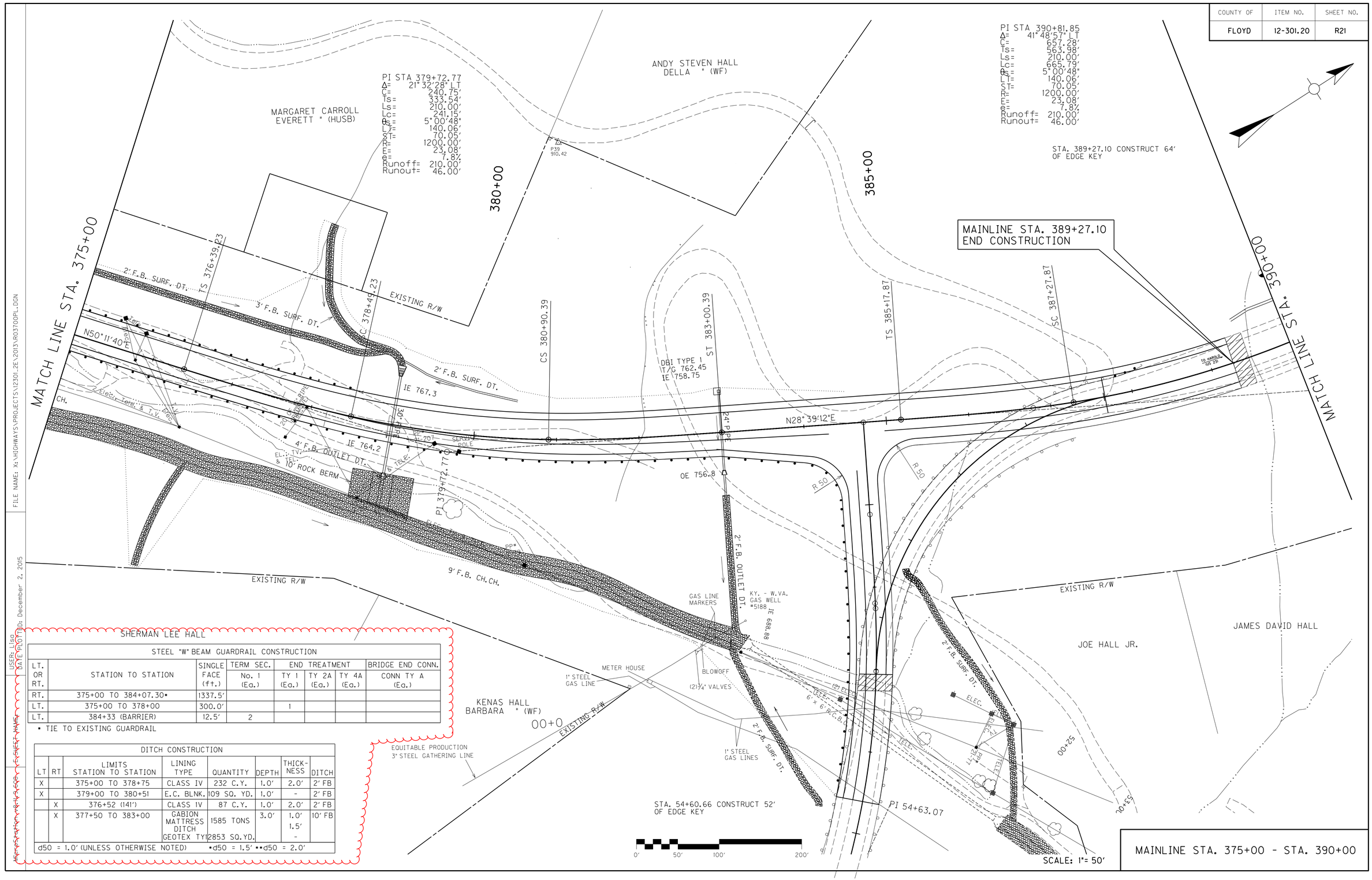
DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		375+00 TO 378+75	CLASS IV	232 C.Y.	1.0'	2.0'	2' FB
X		379+00 TO 380+51	E.C. BLNK.	109 SQ. YD.	1.0'	-	2' FB
	X	376+52 (141')	CLASS IV	87 C.Y.	1.0'	2.0'	2' FB
	X	377+50 TO 383+00	GABION MATTRESS DITCH	1585 TONS	3.0'	1.0'	10' FB
			GEOTEX TY1	2853 SQ.YD.		1.5'	
						-	

d50 = 1.0' (UNLESS OTHERWISE NOTED) •d50 = 1.5' ••d50 = 2.0'

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO3700PL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R21



STEEL "W" BEAM GUARDRAIL CONSTRUCTION

LT. OR RT.	STATION TO STATION	SINGLE FACE (ft.)	TERM SEC. No. 1 (Ea.)	END TREATMENT TY 1 (Ea.)	END TREATMENT TY 2A (Ea.)	END TREATMENT TY 4A (Ea.)	BRIDGE END CONN. CONN TY A (Ea.)
RT.	375+00 TO 384+07.30•	1337.5'					
LT.	375+00 TO 378+00	300.0'		1			
LT.	384+33 (BARRIER)	12.5'	2				

• TIE TO EXISTING GUARDRAIL

DITCH CONSTRUCTION

LT	RT	LIMITS STATION TO STATION	LINING TYPE	QUANTITY	DEPTH	THICK-NESS	DITCH
X		375+00 TO 378+75	CLASS IV	232 C.Y.	1.0'	2.0'	2' FB
X		379+00 TO 380+51	E.C. BLNK.	109 SQ. YD.	1.0'	-	2' FB
	X	376+52 (141')	CLASS IV	87 C.Y.	1.0'	2.0'	2' FB
	X	377+50 TO 383+00	GABION MATTRESS DITCH	1585 TONS	3.0'	1.0'	10' FB
			GEOTEX TY1	2853 SQ.YD.		1.5'	
						-	

d50 = 1.0' (UNLESS OTHERWISE NOTED) •d50 = 1.5' ••d50 = 2.0'

MAINLINE STA. 375+00 - STA. 390+00

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\RO3700PL.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
SHEETS NAME

DATUM

P39 is located on the south side of a bend in an old strip mine road. From the intersection of KY 979 and Tackett Branch Road, go north on Tackett Branch Road for +/- 0.20 mile to an old strip mine road to the right. Turn right and follow for +/- 0.42 mile to the station on the left. The mark is an iron pin with an aluminum cap.

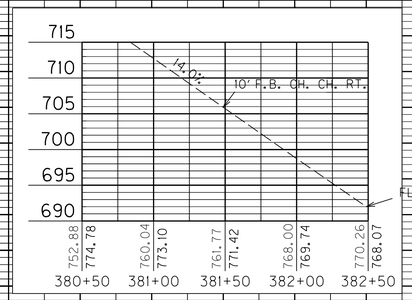
SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
9,493	3,311	70,376	75,593	4,325	126	88	0

SCALE: 1"=50' HORIZ.
1"=10' VERT.

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R22

DATUM



BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	17.0	769.32
CHECK	100	20.6	769.60

PROFILE STA. 375+00 - STA. 390+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R03800PF.DGN

DATUM

P39 is located on the south side of a bend in an old strip mine road. From the intersection of KY 979 and Tackett Branch Road, go north on Tackett Branch Road for +/- 0.20 mile to an old strip mine road to the right. Turn right and follow for +/- 0.42 mile to the station on the left. The mark is an iron pin with an aluminum cap.

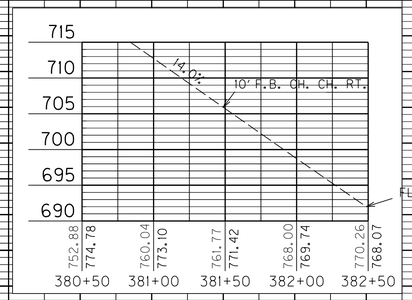
SHEET TOTALS

COM	ROCK	DUR. ROCK EMB	OTHER EMB	RR	DITCH LT.	DITCH RT.	EMB BENCH
9,493	3,311	70,376	75,593	4,325	126	88	0

SCALE: 1"=50' HORIZ.
1"=10' VERT.

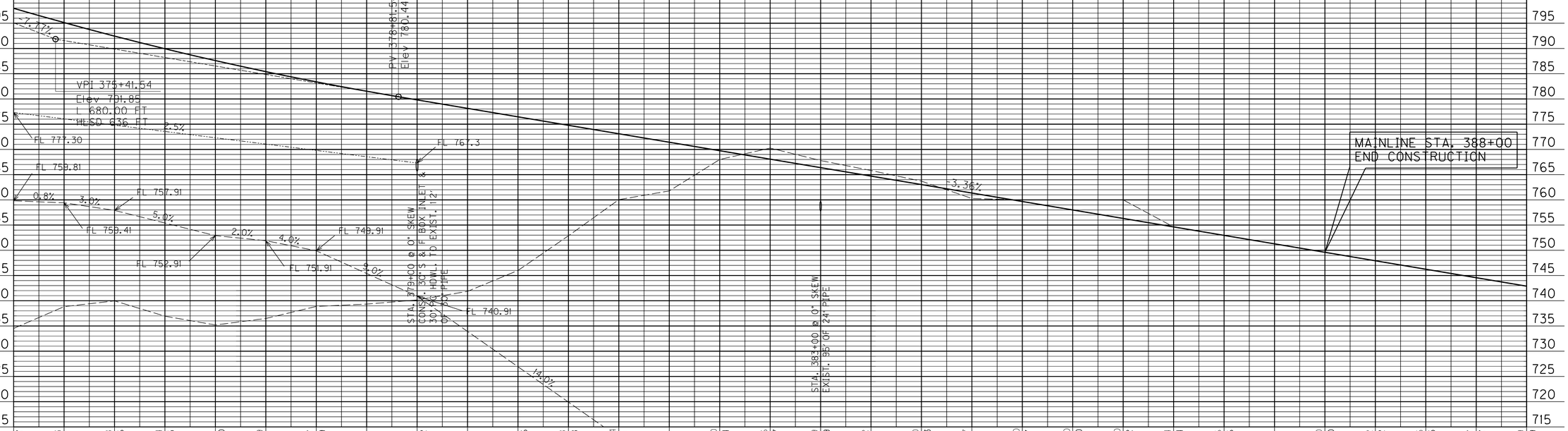
COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R22

DATUM



BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	17.0	769.32
CHECK	100	20.6	769.60

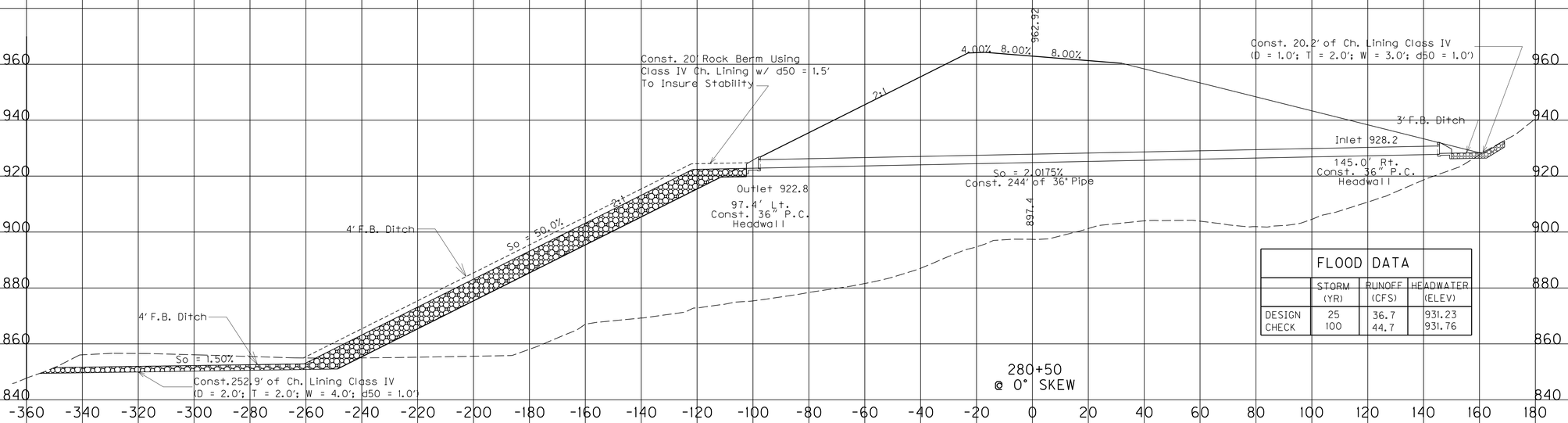
PROFILE STA. 375+00 - STA. 390+00

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\R0380PF.DGN

PIPE DRAINAGE SHEET 6 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R68

STORM SEWER PIPE	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 36 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV	DITCH EXC.
36"						
LINEAR FEET		FEET	EACH	SQ.YD.	CU.YD.	CU.YD.
244	M	36.8	2	718		119
					2802 ROCK BERM LT. 130 DITCH LT. 14 DITCH RT.	



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	36.7	931.23
CHECK	100	44.7	931.76

SCALE: 1"= 20'

PIPE SHEET 6 OF 18

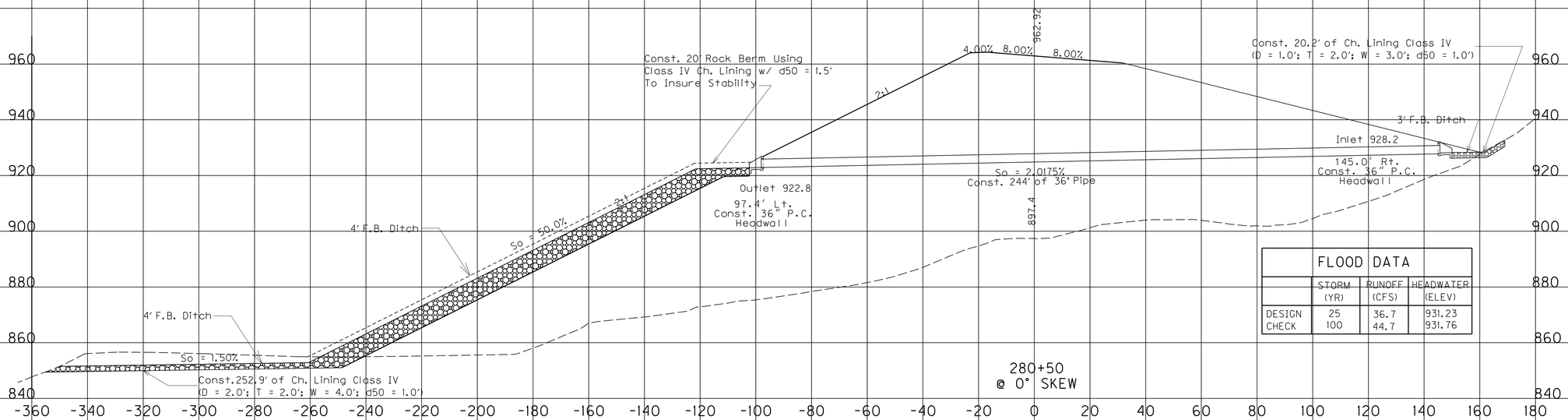
FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

PIPE DRAINAGE SHEET 6 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R68

STORM SEWER PIPE	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 36 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV	DITCH EXC.
36"						
LINEAR FEET		FEET	EACH	SQ.YD.	CU.YD.	CU.YD.
244	M	36.8	2	718		119

2802 ROCK BERM LT.
130 DITCH LT.
14 DITCH RT.



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	36.7	931.23
CHECK	100	44.7	931.76

SCALE: 1"= 20'

PIPE SHEET 6 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

PIPE DRAINAGE SHEET 12 of 18

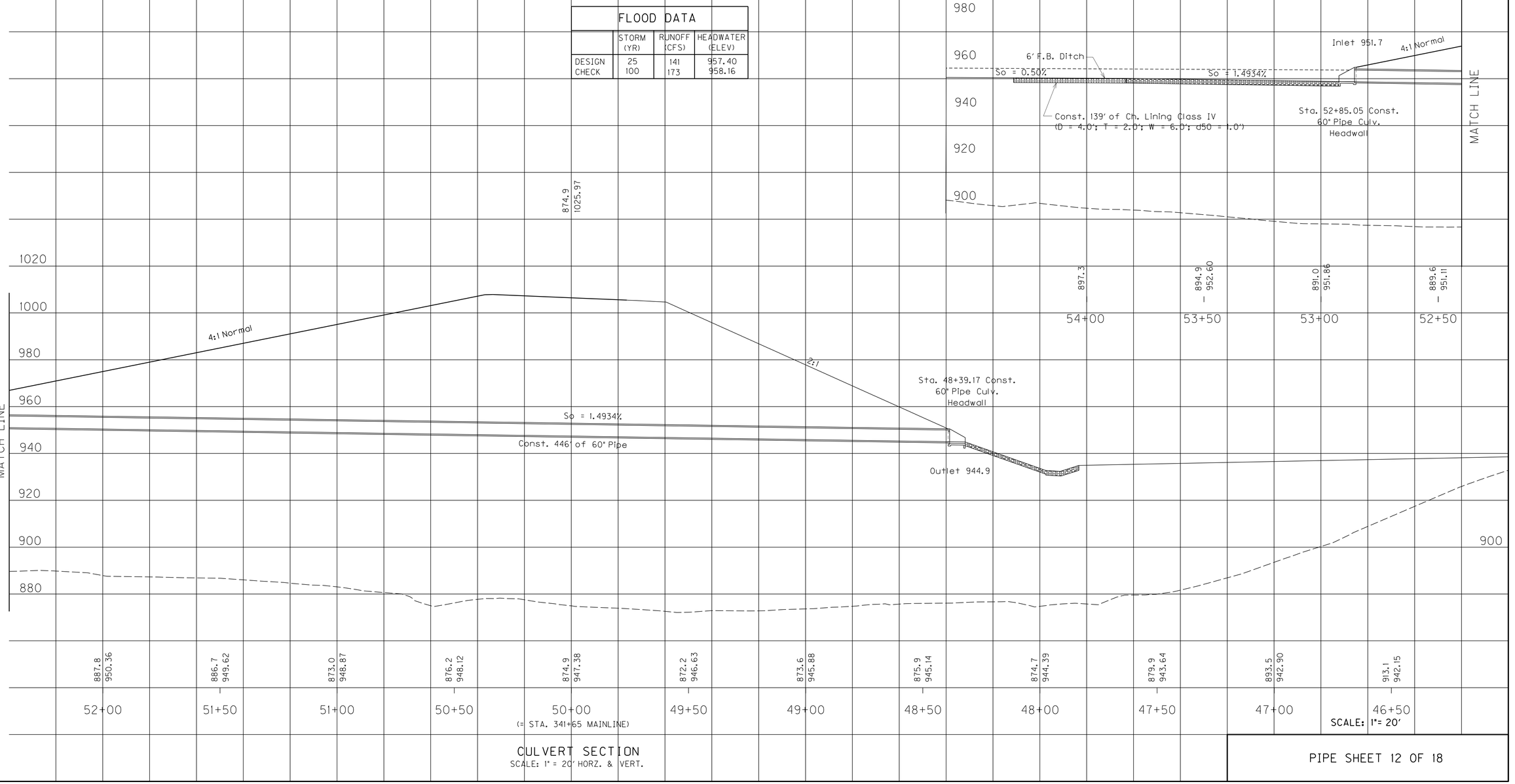
COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R74

CULVERT PIPE

LINEAR FEET 60"	DESIGN pH LEVEL	MAX COVER HEIGHT FEET	P. C. HEADWALL 60 IN EACH	FABRIC–GEOTEXTILE TYPE IV FOR PIPE SQ.YD.	GABION MATTRESS DITCH CU.YD.
446	M	54.4	2	2353	77

CULVERT SITUATION
STA. 341+65 MAINLINE
446' OF 60" PIPE
@ 30° SKEW LEFT

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	141	957.40
CHECK	100	173	958.16



CULVERT SECTION
SCALE: 1" = 20' HORZ. & VERT.

SCALE: 1"= 20'

PIPE SHEET 12 OF 18

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa | DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN

PIPE DRAINAGE SHEET 12 of 18

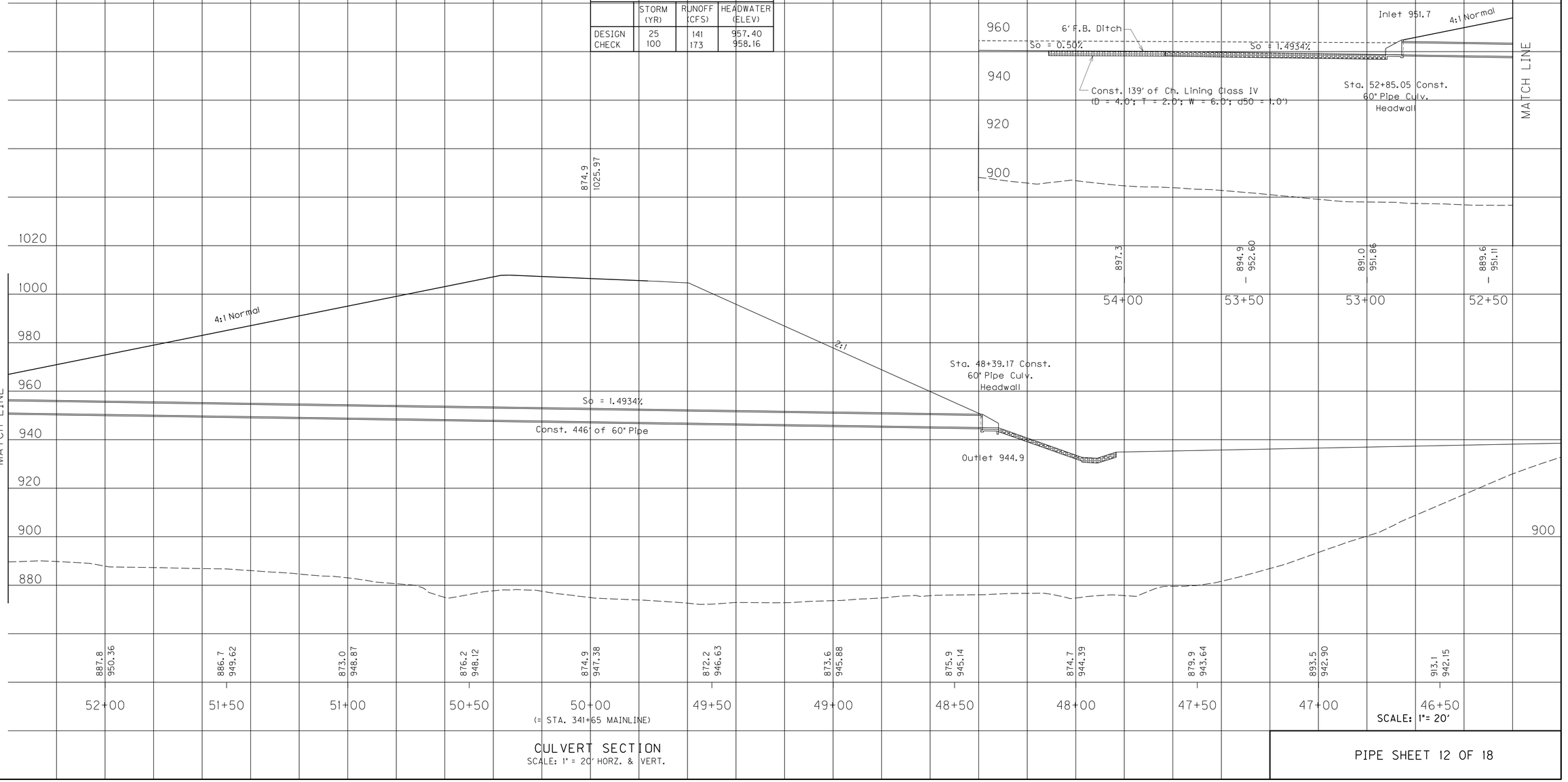
COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R74

CULVERT PIPE

LINEAR FEET	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 60 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	GABION MATTRESS DITCH
60"		FEET	EACH	SQ.YD.	CU.YD.
446	M	54.4	2	2353	77

CULVERT SITUATION
STA. 341+65 MAINLINE
446' OF 60" PIPE
@ 30° SKEW LEFT

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	141	957.40
CHECK	100	173	958.16



CULVERT SECTION
SCALE: 1" = 20' HORZ. & VERT.

SCALE: 1"= 20'

PIPE SHEET 12 OF 18

MicroStation v8.11.9.608 | E-SHEET NAME: | USER: Lisa | DATE PLOTTED: December 2, 2015 | FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN

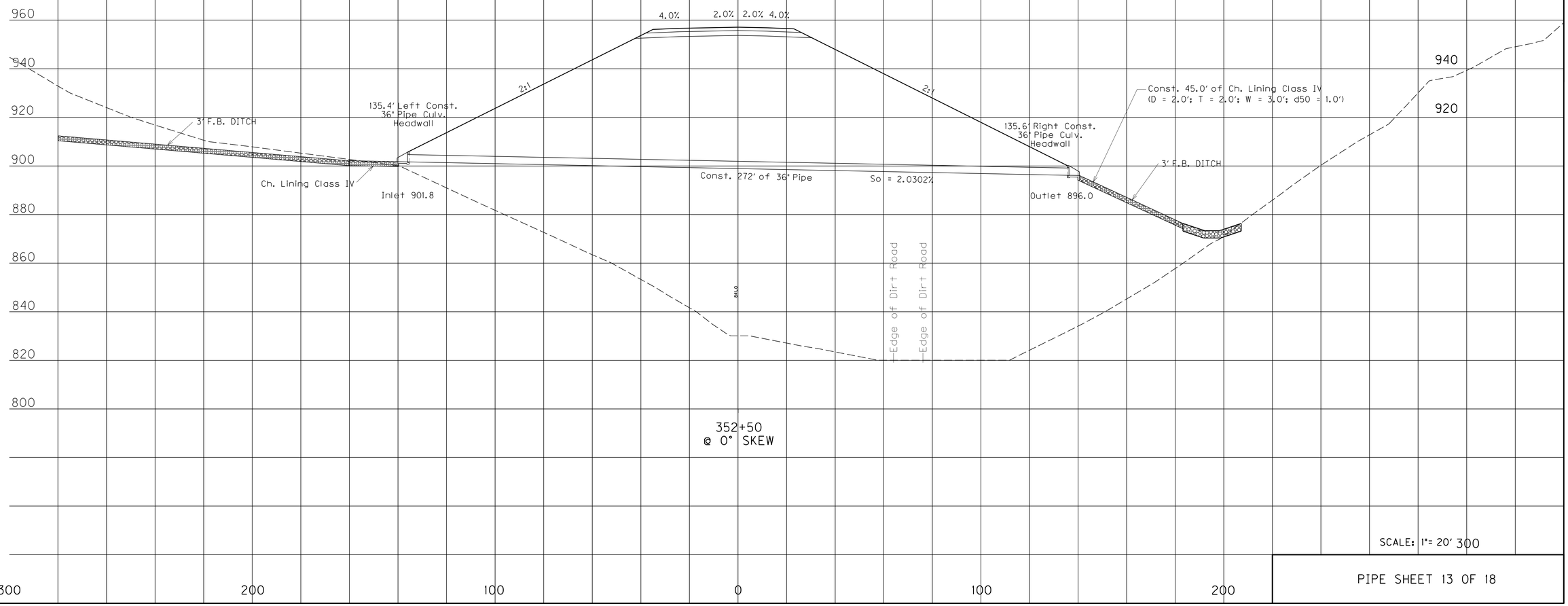
PIPE DRAINAGE SHEET 13 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R75

CULVERT PIPE

	36"	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 36 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
LINEAR FEET			FEET	EACH	SQ.YD.	CU.YD.
	272	M	55.2	2	801	39

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	33.9	904.66
CHECK	100	41.2	905.12



SCALE: 1"= 20' 300

PIPE SHEET 13 OF 18

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN

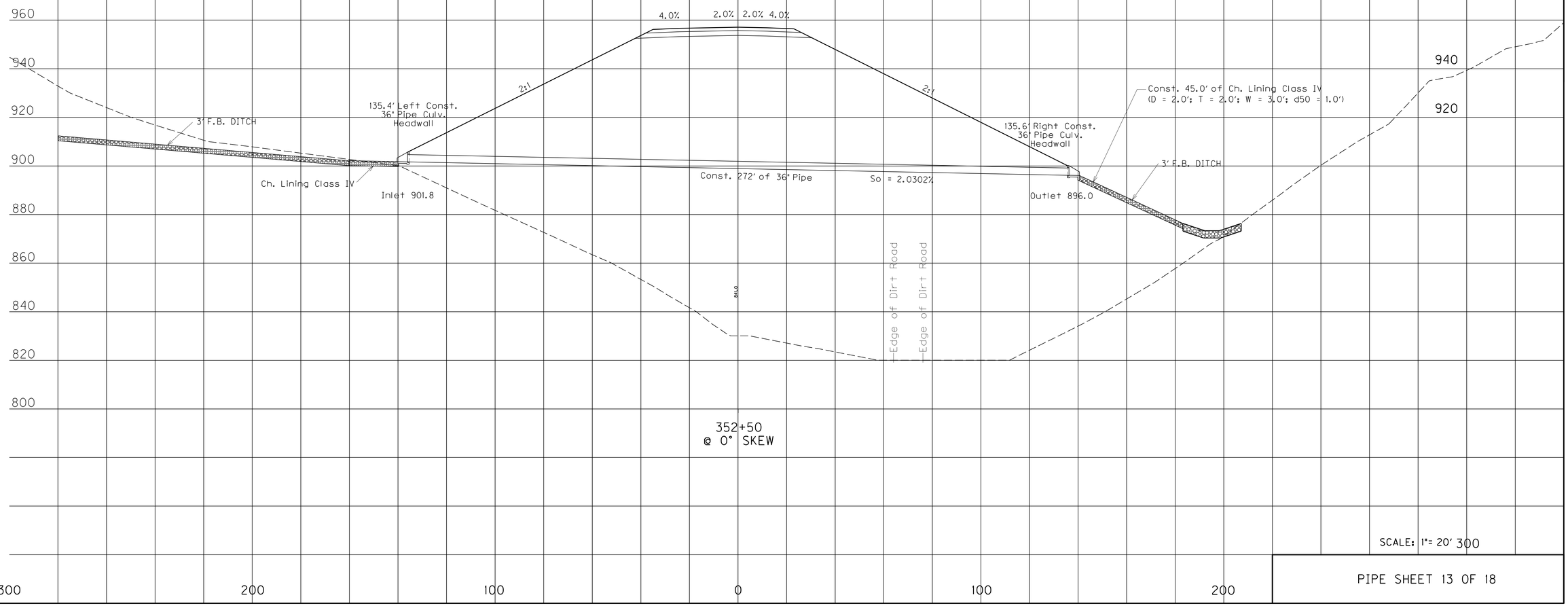
PIPE DRAINAGE SHEET 13 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R75

CULVERT PIPE

LINEAR FEET	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 36 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
36"		FEET	EACH	SQ.YD.	CU.YD.
272	M	55.2	2	801	39

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	33.9	904.66
CHECK	100	41.2	905.12



SCALE: 1"= 20' 300

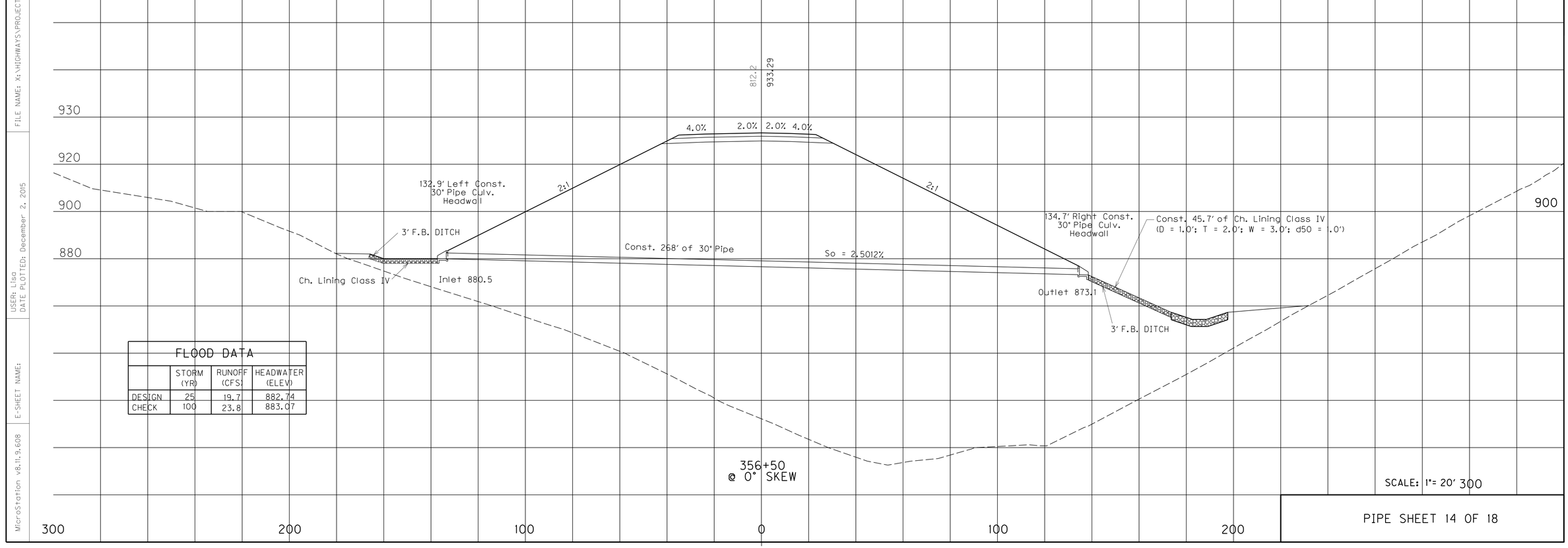
PIPE SHEET 13 OF 18

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN

PIPE DRAINAGE SHEET 14 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R76

CULVERT PIPE									DESIGN pH LEVEL	MAX COVER HEIGHT				P. C. HEADWALL 30 IN			FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV	
							30"												
L I N E A R F E E T										FEET				EACH			SQ.YD.	CU.YD.	
							268		M	54.2				2			730	55	



FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	19.7	882.74
CHECK	100	23.8	883.07

SCALE: 1"= 20' 300

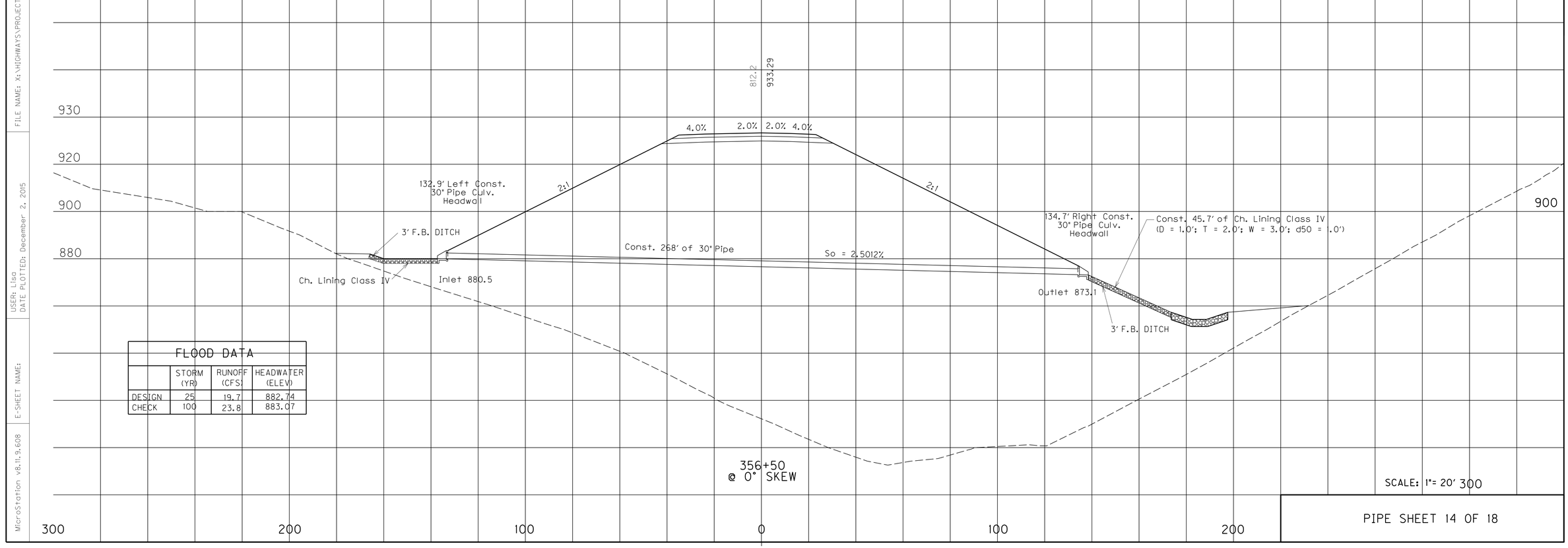
PIPE SHEET 14 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

PIPE DRAINAGE SHEET 14 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R76

CULVERT PIPE									DESIGN pH LEVEL	MAX COVER HEIGHT				P. C. HEADWALL 30 IN		FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV	
							30"											
L I N E A R F E E T										FEET				EACH		SQ.YD.	CU.YD.	
							268		M	54.2				2		730	55	



FLOOD DATA

	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	19.7	882.74
CHECK	100	23.8	883.07

SCALE: 1"= 20' 300

PIPE SHEET 14 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

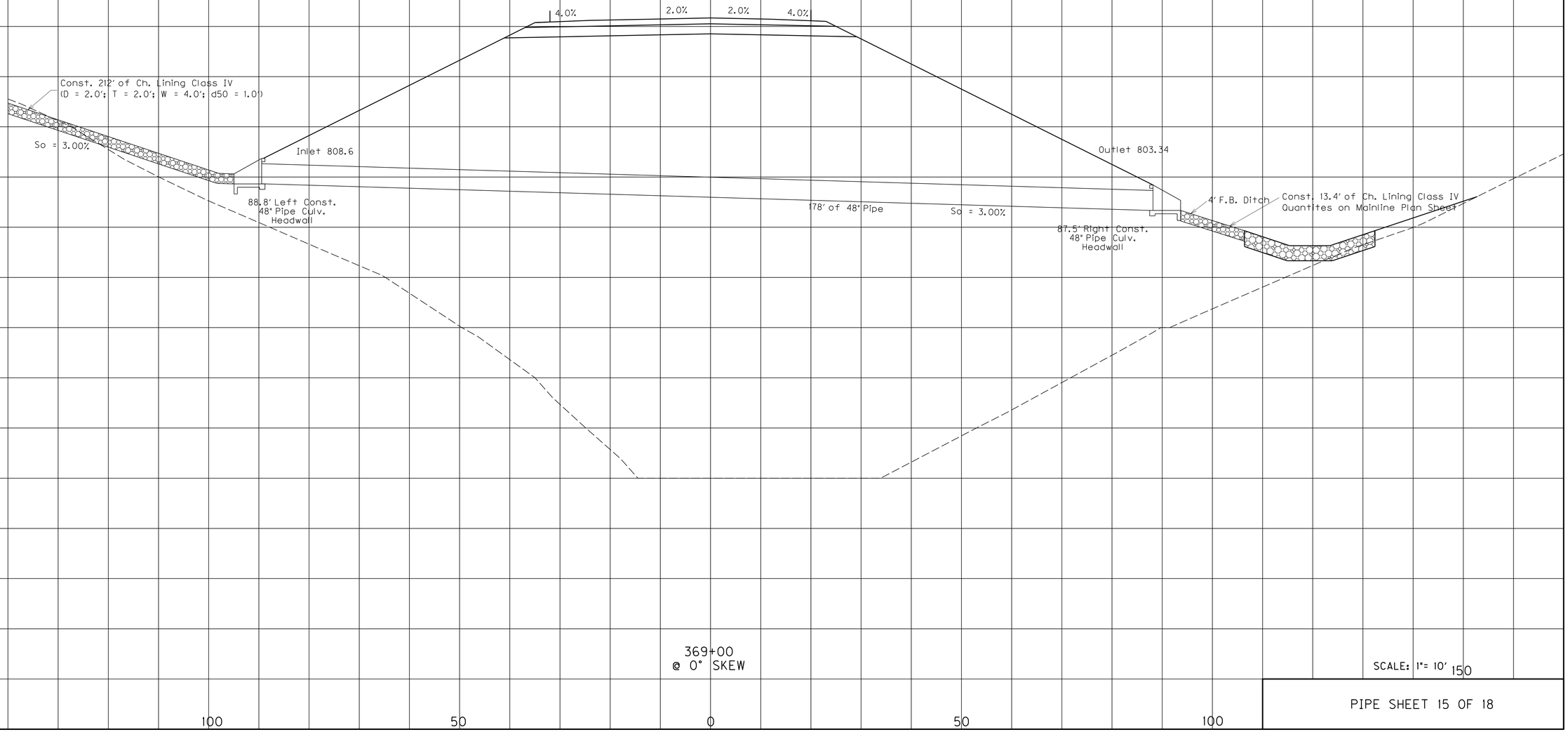
PIPE DRAINAGE SHEET 15 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R77

CULVERT PIPE

	48"	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 48 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
LINEAR FEET	178	M	31.7 FEET	2 EACH	682 SQ.YD.	883 CU.YD.

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	80	812.82
CHECK	100	98	813.72



SCALE: 1"= 10'

PIPE SHEET 15 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

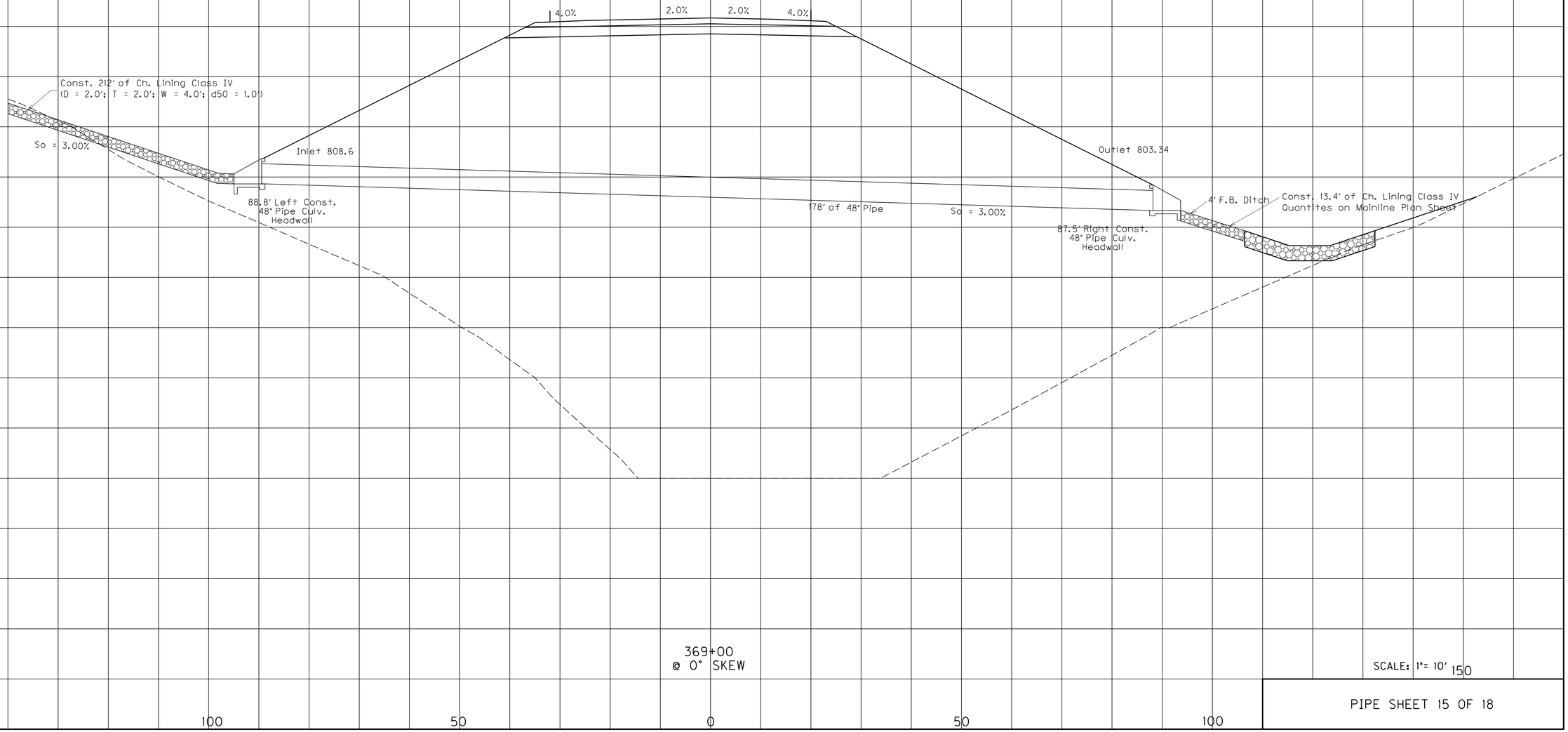
PIPE DRAINAGE SHEET 15 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R77

CULVERT PIPE

	48"	DESIGN pH LEVEL	MAX COVER HEIGHT	P. C. HEADWALL 48 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
LINEAR FEET			FEET	EACH	SQ.YD.	CU.YD.
	178	M	31.7	2	682	883

FLOOD DATA			
	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	80	812.82
CHECK	100	98	813.72



SCALE: 1"= 10'

PIPE SHEET 15 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2015\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R78

PIPE DRAINAGE SHEET 16 of 18

CULVERT PIPE 30"	DESIGN pH LEVEL	MAX COVER HEIGHT	P.C. HEADWALL 30 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
LINEAR FEET		FEET	EACH	SQ.YD.	CU.YD.
135	M	20.8	2	368	185

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	15.9	784.21
CHECK	100	19.5	784.49

SCALE: 1"= 10'

PIPE SHEET 16 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\12301_2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

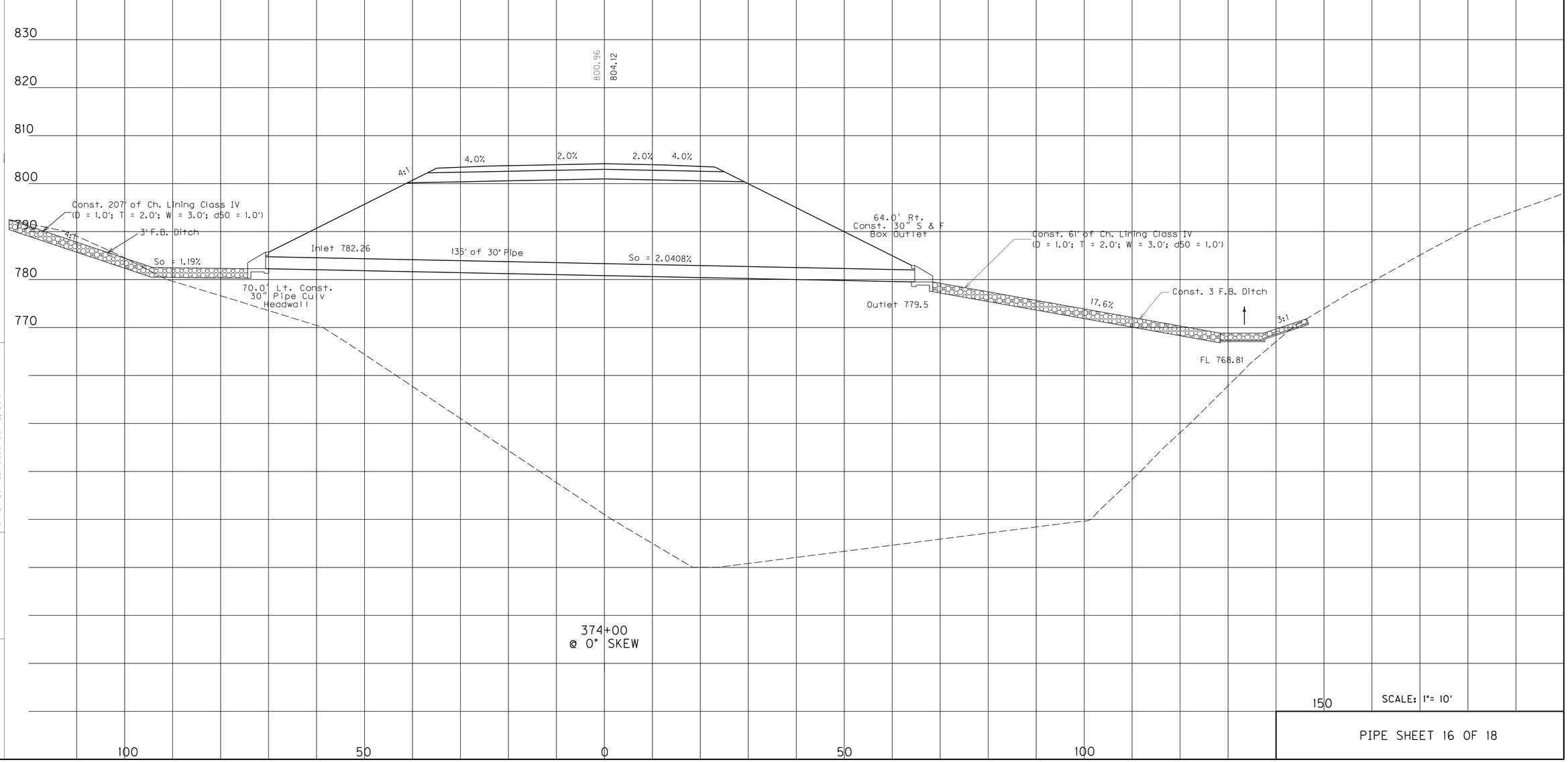
PIPE DRAINAGE SHEET 16 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R78

CULVERT PIPE

LINEAR FEET	DESIGN pH LEVEL	MAX COVER HEIGHT	P.C. HEADWALL 30 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
30"		FEET	EACH	SQ.YD.	CU.YD.
135	M	20.8	2	368	185

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	15.9	784.21
CHECK	100	19.5	784.49



PIPE SHEET 16 OF 18

FILE NAME: X:\HIGHWAYS\PROJECTS\12301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN
USER: Lisa
DATE PLOTTED: December 2, 2015
E-SHEET NAME:
MicroStation v8.11.9.608

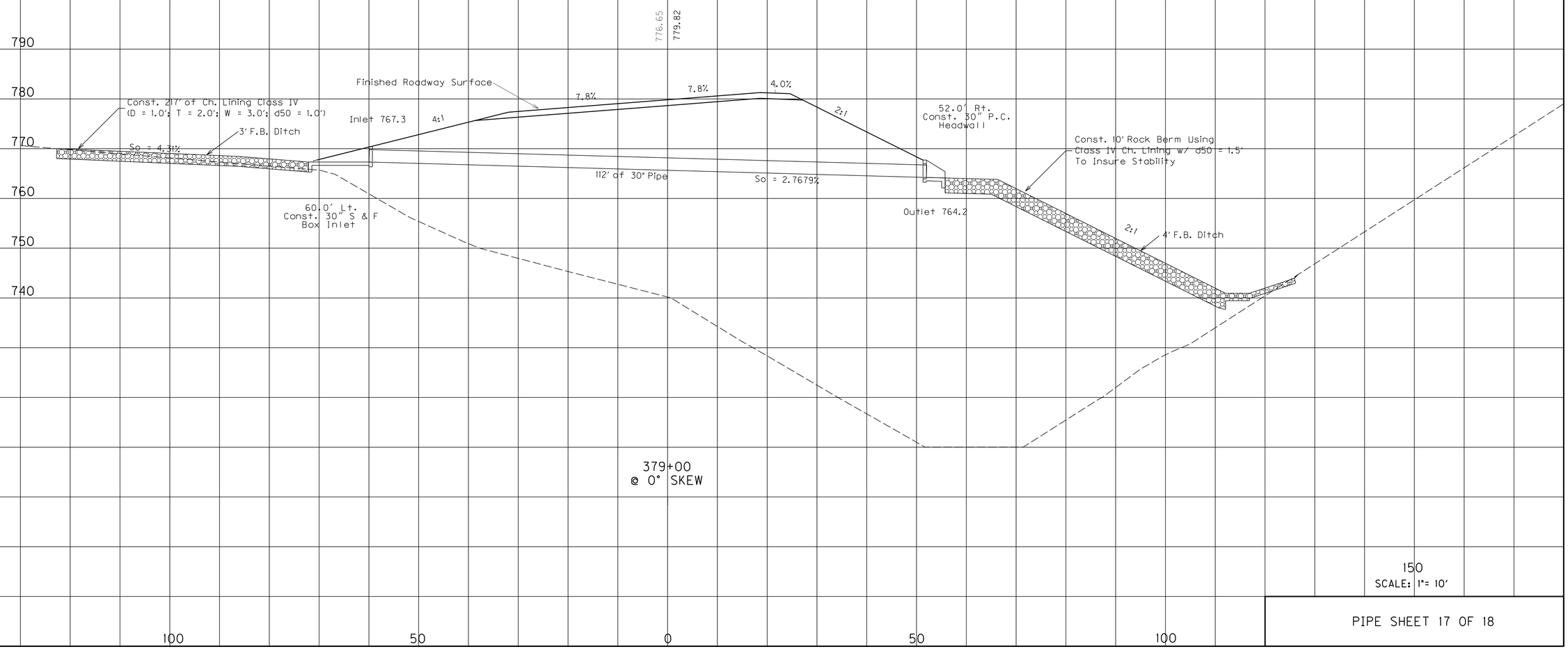
PIPE DRAINAGE SHEET 17 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R79

CULVERT PIPE

LINEAR FEET	DESIGN pH LEVEL	MAX COVER HEIGHT	30" S & F BOX IN – OUT	P. C. HEADWALL 30 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
30"		FEET	EACH	EACH	SQ.YD.	CU.YD.
112	M	13.6	1	1	305	583

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	17.0	769.32
CHECK	100	20.6	769.60



PIPE SHEET 17 OF 18

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN

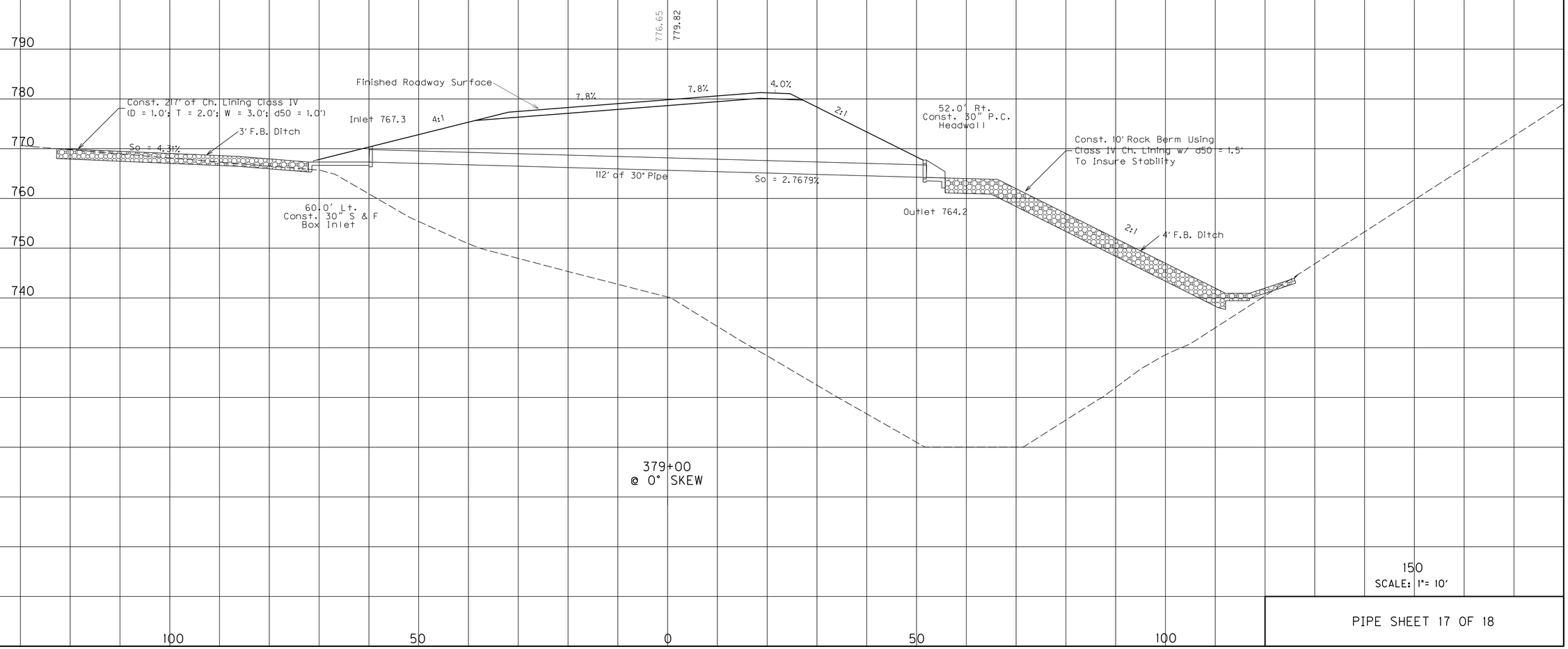
PIPE DRAINAGE SHEET 17 of 18

COUNTY OF	ITEM NO.	SHEET NO.
FLOYD	12-301.20	R79

CULVERT PIPE

LINEAR FEET	DESIGN pH LEVEL	MAX COVER HEIGHT	30" S & F BOX IN – OUT	P. C. HEADWALL 30 IN	FABRIC–GEOTEXTILE TYPE IV FOR PIPE	CHANNEL LINING CLASS IV
30"		FEET	EACH	EACH	SQ.YD.	CU.YD.
112	M	13.6	1	1	305	583

FLOOD DATA	STORM (YR)	RUNOFF (CFS)	HEADWATER (ELEV)
DESIGN	25	17.0	769.32
CHECK	100	20.6	769.60



PIPE SHEET 17 OF 18

MicroStation v8.11.9.608
E-SHEET NAME:
USER: Lisa
DATE PLOTTED: December 2, 2015
FILE NAME: X:\HIGHWAYS\PROJECTS\2301.2E\2013\12-301.20 2015\PIPESHEET TO PLOT.DGN

151093

PROPOSAL BID ITEMS

Report Date 12/4/15

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	48,142.00	TON		$	
0020	00020		TRAFFIC BOUND BASE	247.00	TON		$	
0030	00100		ASPHALT SEAL AGGREGATE	123.00	TON		$	
0040	00103		ASPHALT SEAL COAT	15.00	TON		$	
0050	00190		LEVELING & WEDGING PG64-22	200.00	TON		$	
0060	00212		CL2 ASPH BASE 1.00D PG64-22	4,732.00	TON		$	
0070	00214		CL3 ASPH BASE 1.00D PG64-22	24,681.00	TON		$	
0080	00221		CL2 ASPH BASE 0.75D PG64-22	50.00	TON		$	
0090	00307		CL2 ASPH SURF 0.38B PG64-22	1,711.00	TON		$	
0100	00388		CL3 ASPH SURF 0.38B PG64-22	4,059.00	TON		$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0110	00078		CRUSHED AGGREGATE SIZE NO 2	107.00	TON		$	
0120	01010		NON-PERFORATED PIPE-4 IN	4,000.00	LF		$	
0130	01890		ISLAND HEADER CURB TYPE 1	100.00	LF		$	
0140	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	87.00	EACH		$	
0150	02159		TEMP DITCH	7,164.00	LF		$	
0160	02160		CLEAN TEMP DITCH	3,582.00	LF		$	
0170	02200		ROADWAY EXCAVATION (REVISED: 12-4-15)	6,255,975.00	CUYD		$	
0180	02351		GUARDRAIL-STEEL W BEAM-S FACE (REVISED: 12-4-15)	13,337.50	LF		$	
0190	02360		GUARDRAIL TERMINAL SECTION NO 1 (REVISED: 12-4-15)	32.00	EACH		$	
0200	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		$	
0210	02367		GUARDRAIL END TREATMENT TYPE 1	5.00	EACH		$	
0220	02369		GUARDRAIL END TREATMENT TYPE 2A (REVISED: 12-4-15)	5.00	EACH		$	
0230	02429		RIGHT-OF-WAY MONUMENT TYPE 1	133.00	EACH		$	
0240	02432		WITNESS POST	133.00	EACH		$	
0250	02482		CHANNEL LINING CLASS IA	959.00	TON		$	
0260	02488		CHANNEL LINING CLASS IV (REVISED: 12-4-15)	36,332.00	CUYD		$	
0270	02545		CLEARING AND GRUBBING 98 ACRES	1.00	LS		$	
0280	02562		TEMPORARY SIGNS	509.50	SQFT		$	
0290	02585		EDGE KEY	167.00	LF		$	
0300	02596		FABRIC-GEOTEXTILE TYPE I (REVISED: 12-4-15)	3,883.00	SQYD		$	
0310	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		$	
0320	02696		SHOULDER RUMBLE STRIPS-SAWED	27,904.00	LF		$	
0330	02701		TEMP SILT FENCE	7,164.00	LF		$	
0340	02703		SILT TRAP TYPE A	158.00	EACH		$	
0350	02704		SILT TRAP TYPE B	158.00	EACH		$	
0360	02705		SILT TRAP TYPE C	158.00	EACH		$	

151093

PROPOSAL BID ITEMS

Report Date 12/4/15

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0370	02706		CLEAN SILT TRAP TYPE A	158.00	EACH		$	
0380	02707		CLEAN SILT TRAP TYPE B	158.00	EACH		$	
0390	02708		CLEAN SILT TRAP TYPE C	158.00	EACH		$	
0400	02726		STAKING	1.00	LS		$	
0410	05950		EROSION CONTROL BLANKET (REVISED: 12-4-15)	9,832.00	SQYD		$	
0420	05952		TEMP MULCH	290,500.00	SQYD		$	
0430	05953		TEMP SEEDING AND PROTECTION	290,500.00	SQYD		$	
0440	05963		INITIAL FERTILIZER	18.00	TON		$	
0450	05964		20-10-10 FERTILIZER	30.00	TON		$	
0460	05985		SEEDING AND PROTECTION	581,000.00	SQYD		$	
0470	05992		AGRICULTURAL LIMESTONE	360.00	TON		$	
0480	06510		PAVE STRIPING-TEMP PAINT-4 IN	10,000.00	LF		$	
0490	06514		PAVE STRIPING-PERM PAINT-4 IN	56,603.00	LF		$	
0500	06589		PAVEMENT MARKER TYPE V-MW	171.00	EACH		$	
0510	06591		PAVEMENT MARKER TYPE V-BY	348.00	EACH		$	
0520	10020NS		FUEL ADJUSTMENT (REVISED: 12-4-15)	1,154,442.00	DOLL	$1.00	$	$1,154,442.00
0530	10030NS		ASPHALT ADJUSTMENT	138,529.00	DOLL	$1.00	$	$138,529.00
0540	20071EC		JOINT ADHESIVE	56,628.00	LF		$	
0550	20458ES403		CENTERLINE RUMBLE STRIPS	13,952.00	LF		$	
0560	20667ED		PNEUMATIC BACKSTOWING	4,000.00	TON		$	
0570	24843EC		VIBRATING WIRE PIEZOMETER	6.00	EACH		$	
0580	24846EC		GABION MATTRESS DITCH (REVISED: 12-4-15)	2,395.00	CUYD		$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0590	00440		ENTRANCE PIPE-15 IN	83.00	LF		$	
0600	00441		ENTRANCE PIPE-18 IN	65.00	LF		$	
0610	00445		ENTRANCE PIPE-30 IN	59.00	LF		$	
0620	00462		CULVERT PIPE-18 IN	325.00	LF		$	
0630	00464		CULVERT PIPE-24 IN	564.00	LF		$	
0640	00466		CULVERT PIPE-30 IN (REVISED: 12-4-15)	1,067.00	LF		$	
0650	00468		CULVERT PIPE-36 IN (REVISED: 12-4-15)	516.00	LF		$	
0660	00470		CULVERT PIPE-48 IN (REVISED: 12-4-15)	289.00	LF		$	
0670	00472		CULVERT PIPE-60 IN (REVISED: 12-4-15)	446.00	LF		$	
0680	00522		STORM SEWER PIPE-18 IN	91.00	LF		$	
0690	00524		STORM SEWER PIPE-24 IN	239.00	LF		$	
0700	00526		STORM SEWER PIPE-30 IN	90.00	LF		$	
0710	01002		PERFORATED PIPE-8 IN	508.00	LF		$	
0720	01012		NON-PERFORATED PIPE-8 IN	283.00	LF		$	
0730	01022		PERF PIPE HEADWALL TY 1-8 IN	3.00	EACH		$	
0740	01030		PERF PIPE HEADWALL TY 3-8 IN	4.00	EACH		$	
0750	01204		PIPE CULVERT HEADWALL-18 IN	4.00	EACH		$	
0760	01208		PIPE CULVERT HEADWALL-24 IN	4.00	EACH		$	

151093

PROPOSAL BID ITEMS

Report Date 12/4/15

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0770	01210		PIPE CULVERT HEADWALL-30 IN (REVISED: 12-4-15)	9.00	EACH		$	
0780	01212		PIPE CULVERT HEADWALL-36 IN	4.00	EACH		$	
0790	01216		PIPE CULVERT HEADWALL-48 IN	6.00	EACH		$	
0800	01220		PIPE CULVERT HEADWALL-60 IN	2.00	EACH		$	
0810	01374		METAL END SECTION TY 1-30 IN	1.00	EACH		$	
0820	01451		S & F BOX INLET-OUTLET-24 IN	1.00	EACH		$	
0830	01452		S & F BOX INLET-OUTLET-30 IN (REVISED: 12-4-15)	4.00	EACH		$	
0840	01490		DROP BOX INLET TYPE 1	4.00	EACH		$	
0850	01493		DROP BOX INLET TYPE 2	3.00	EACH		$	
0860	01505		DROP BOX INLET TYPE 5B	3.00	EACH		$	
0870	02600		FABRIC GEOTEXTILE TY IV FOR PIPE (REVISED: 12-4-15)	10,642.00	SQYD	$2.00	$	$21,284.00
0880	21257ED		ENTRANCE PIPE-48 IN	279.00	LF		$	

Section: 0004 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0890	02231		STRUCTURE GRANULAR BACKFILL	356.80	CUYD		$	
0900	02998		MASONRY COATING	2,357.00	SQYD		$	
0910	03299		ARMORED EDGE FOR CONCRETE	124.00	LF		$	
0920	08001		STRUCTURE EXCAVATION-COMMON	338.10	CUYD		$	
0930	08002		STRUCTURE EXCAV-SOLID ROCK	374.90	CUYD		$	
0940	08019		CYCLOPEAN STONE RIP RAP	1,000.00	TON		$	
0950	08033		TEST PILES	96.00	LF		$	
0960	08046		PILES-STEEL HP12X53	888.00	LF		$	
0970	08094		PILE POINTS-12 IN	18.00	EACH		$	
0980	08100		CONCRETE-CLASS A	580.20	CUYD		$	
0990	08104		CONCRETE-CLASS AA	568.80	CUYD		$	
1000	08150		STEEL REINFORCEMENT	57,681.00	LB		$	
1010	08151		STEEL REINFORCEMENT-EPOXY COATED	161,653.00	LB		$	
1020	08160		STRUCTURAL STEEL 1340 LBS	1.00	LS		$	
1030	08471		EXPANSION DAM-2.5 IN NEOPRENE	124.00	LF		$	
1040	08637		PRECAST PC I BEAM TYPE 7	1,841.80	LF		$	
1050	21532ED		RAIL SYSTEM TYPE III	740.00	LF		$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1060	04795		CONDUIT-2 IN	80.00	LF		$	
1070	04820		TRENCHING AND BACKFILLING	80.00	LF		$	
1080	04844		CABLE-NO. 14/5C	1,050.00	LF		$	
1090	04885		MESSENGER-10800 LB	500.00	LF		$	
1100	04931		INSTALL CONTROLLER TYPE 170	1.00	EACH		$	
1110	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		$	
1120	04950		REMOVE SIGNAL EQUIPMENT	1.00	EACH		$	
1130	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	24.00	EACH		$	

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PROPOSAL BID ITEMS

Report Date 12/4/15

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1140	20188NS835		INSTALL LED SIGNAL-3 SECTION	10.00	EACH		$	
1150	20266ES835		INSTALL LED SIGNAL- 4 SECTION	2.00	EACH		$	
1160	23157EN		TRAFFIC SIGNAL POLE BASE	22.00	CUYD		$	
1170	23982EC		INSTALL ANTENNA	1.00	EACH		$	
1180	24133EC		INSTALL SIGNAL SENSOR SYSTEM	1.00	EACH		$	
1190	24601EC		INSTALL WOOD POLE	2.00	EACH		$	

Section: 0006 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1200	02568		MOBILIZATION	1.00	LS		$	
1210	02569		DEMOBILIZATION	1.00	LS		$	