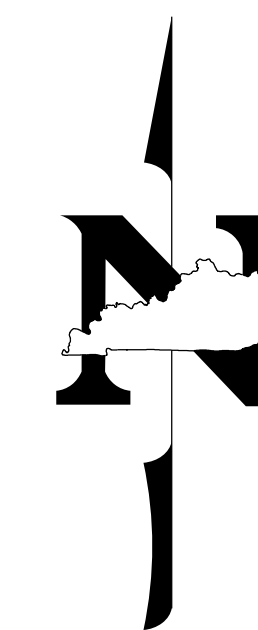


COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	RI

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT

KY 1819 - BILLTOWN ROAD GRADE, DRAIN AND SURFACING PLANS FD04 056 1819 005-008



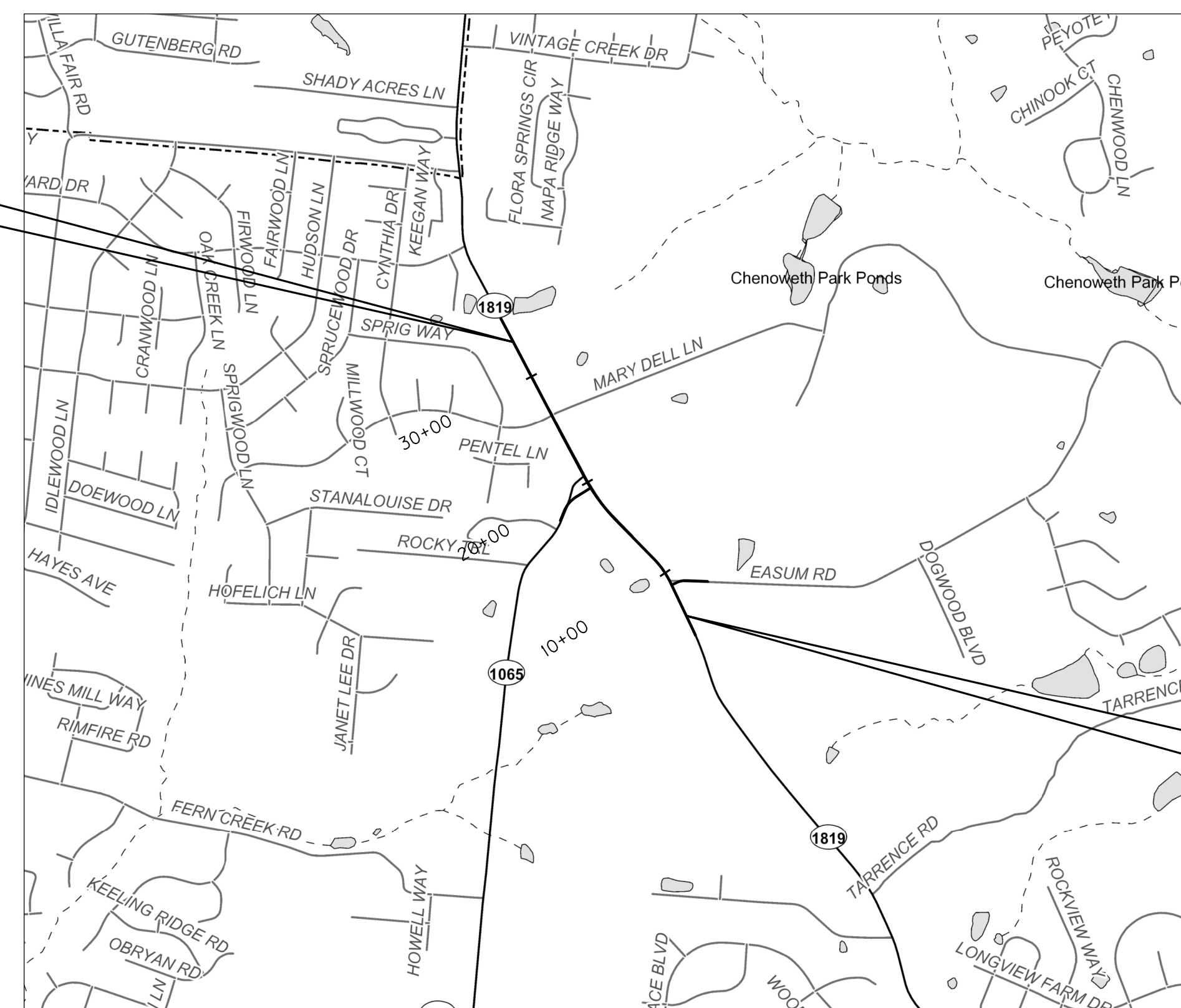
SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2 - R2G	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3 - R18	PLAN AND PROFILE SHEETS
R19 - R20	UTILITY REFERENCE SHEETS
R21 - R22	RIGHT OF WAY SUMMARY SHEETS
R23 - R24	RIGHT OF WAY STRIP MAP SHEETS
R25 - R27	COORDINATE CONTROL SHEETS
R28 - R32	DETAIL SHEETS
R33 - R41	TRAFFIC CONTROL SHEETS
R42 - R44	EROSION CONTROL SHEETS
	MITIGATION PLAN SHEETS
	SOIL PROFILE SHEETS
	PIPE DRAINAGE SHEETS
R45 - R53	
S	STRUCTURE PLANS
T	TRAFFIC PLANS
U	UTILITY RELOCATION PLANS
X1 - X79	CROSS SECTION SHEETS

SHEETS NOT INCLUDED IN TOTAL SHEETS

STANDARD DRAWINGS

NUMBER

END CONSTRUCTION
STA. 33+25.00



BEGIN CONSTRUCTION
STA. 6+00.00

THE CONTROL OF ACCESS ON THIS
PROJECT SHALL BE BY PERMIT

DESIGN CRITERIA

CLASS OF HIGHWAY	URBAN ARTERIAL
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	45 mph
REQUIRED NPSD	660 FT.
REQUIRED PSD	
LEVEL OF SERVICE	
ADT PRESENT (2009)	12,000 - 14,000
ADT FUTURE (2025)	16,700 - 19,000
DHV (2025)	2,000 - 2,140
D %	
T %	

GEOGRAPHIC COORDINATES

LATITUDE 38 DEGREES 09 MINUTES 57 SECONDS NORTH
LONGITUDE 85 DEGREES 34 MINUTES 09 SECONDS WEST

DESIGNED

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

LENGTH	LIN. FT.	MILES	LENGTH	LIN. FT.	MILES	LENGTH	LIN. FT.	MILES	LENGTH	LIN. FT.	MILES
2.725	0.516										
ADDED	FOR EQUALITIES		ADDED	FOR EQUALITIES		ADDED	FOR EQUALITIES		ADDED	FOR EQUALITIES	
DEDUCTED	NOT INCLUDED		DEDUCTED	NOT INCLUDED		DEDUCTED	NOT INCLUDED		DEDUCTED	NOT INCLUDED	
RAILROAD CROSSINGS NO.			RAILROAD CROSSINGS NO.			RAILROAD CROSSINGS NO.			RAILROAD CROSSINGS NO.		
BRIDGES			BRIDGES			BRIDGES			BRIDGES		



SCALE IN FEET
LAYOUT MAP

**Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
JEFFERSON**

ITEM NO. 5-8203.00
PROJECT NUMBER: FD04 056 1819 005-008
LETTING DATE: _____

RECOMMENDED BY: _____ PROJECT MANAGER DATE: _____

PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER DATE: _____

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM-LOVERS\0805\ALAYOUT.DGN

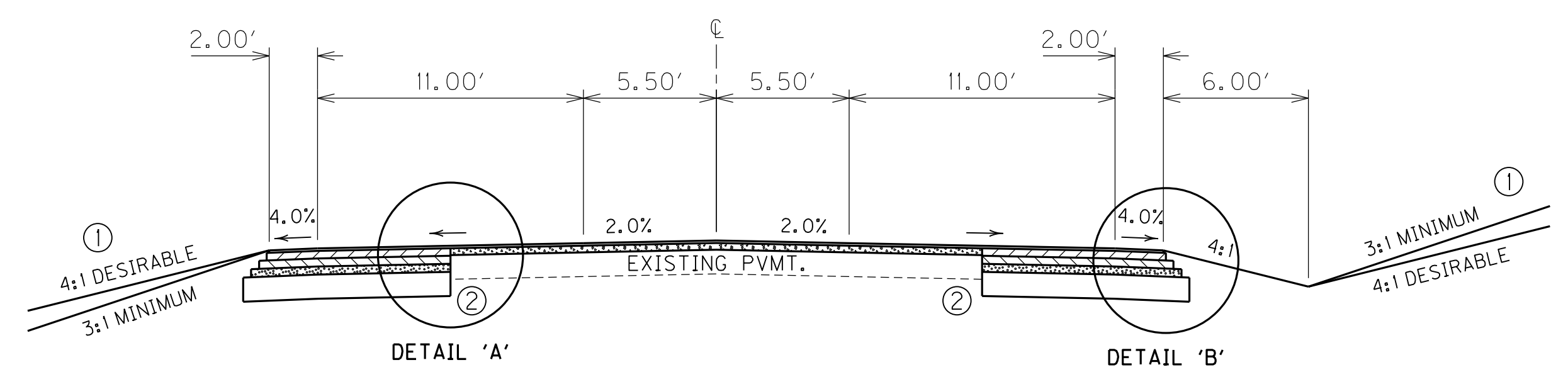
USER: Jim DATE PLOTTED: February 21, 2012

E-SHEET NAME:

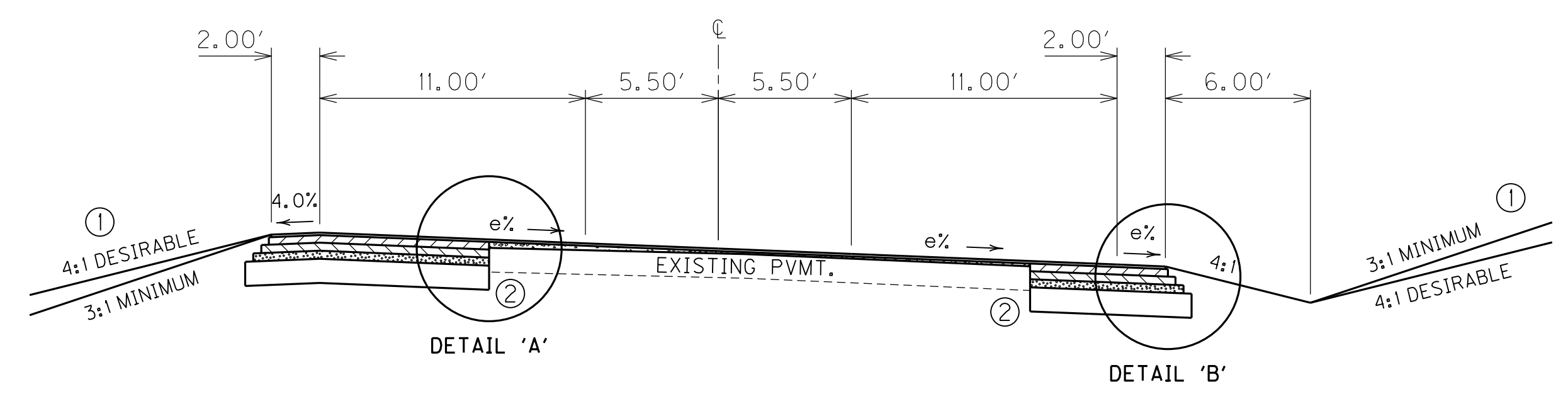
MicroStation v8.11.7.180

TYPICAL SECTIONS

(NOT TO SCALE)



KY. 1819 - BILLTOWN ROAD
NORMAL 3-LANE SECTION
STA. 8+61 TO STA. 12+20



KY. 1819 - BILLTOWN ROAD
SUPERELEVATED 3-LANE SECTION
STA. 8+61 TO STA. 12+20

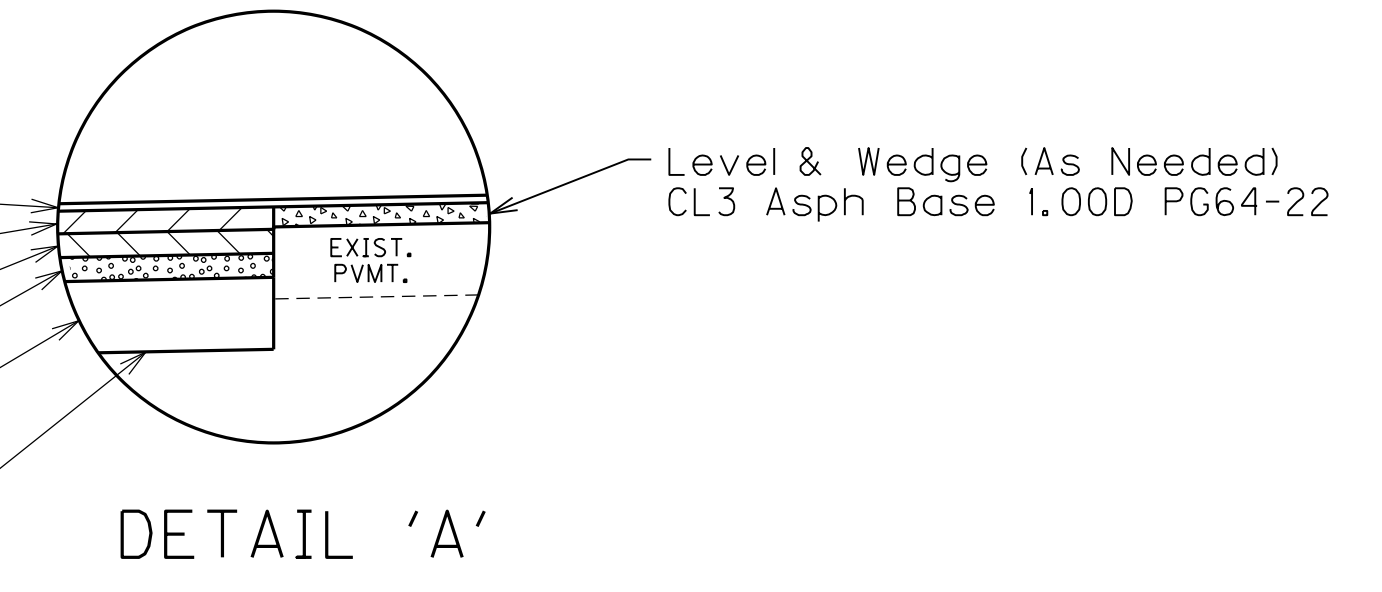
KY. 1819 - BILLTOWN ROAD
PAVEMENT DESIGN

TRAFFIC LANES & PAVED SHOULDERS

CL3 Asph Surf 0.38A PG64-22	1.25 in.
CL3 Asph Base 1.00D PG64-22	3.75 in.
CL3 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	4.0 in.

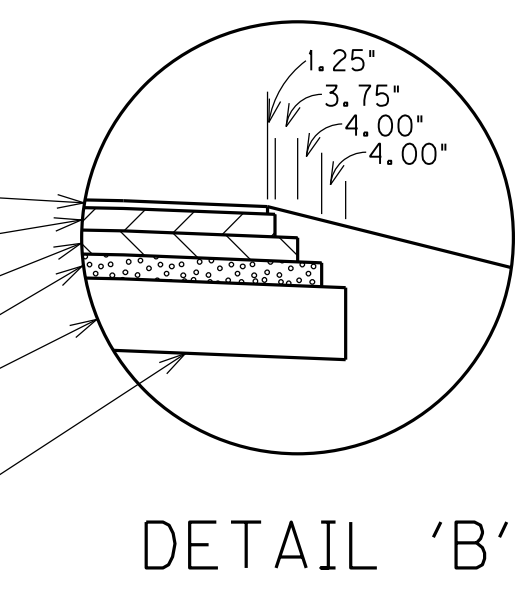
TRAFFIC LANES & PAVED SHLDR.

- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base
- 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
- Geotextile Fabric Type IV (as needed)
- Completely wrap No. 2 Stone

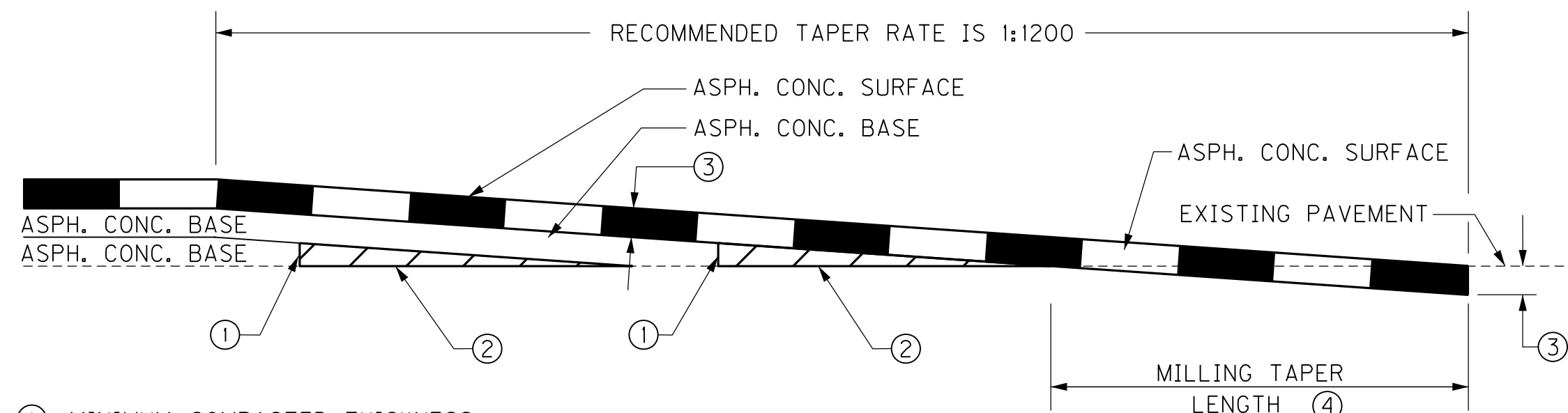


TRAFFIC LANES & PAVED SHLDR.

- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base
- 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
- Geotextile Fabric Type IV (as needed)
- Completely wrap No. 2 Stone

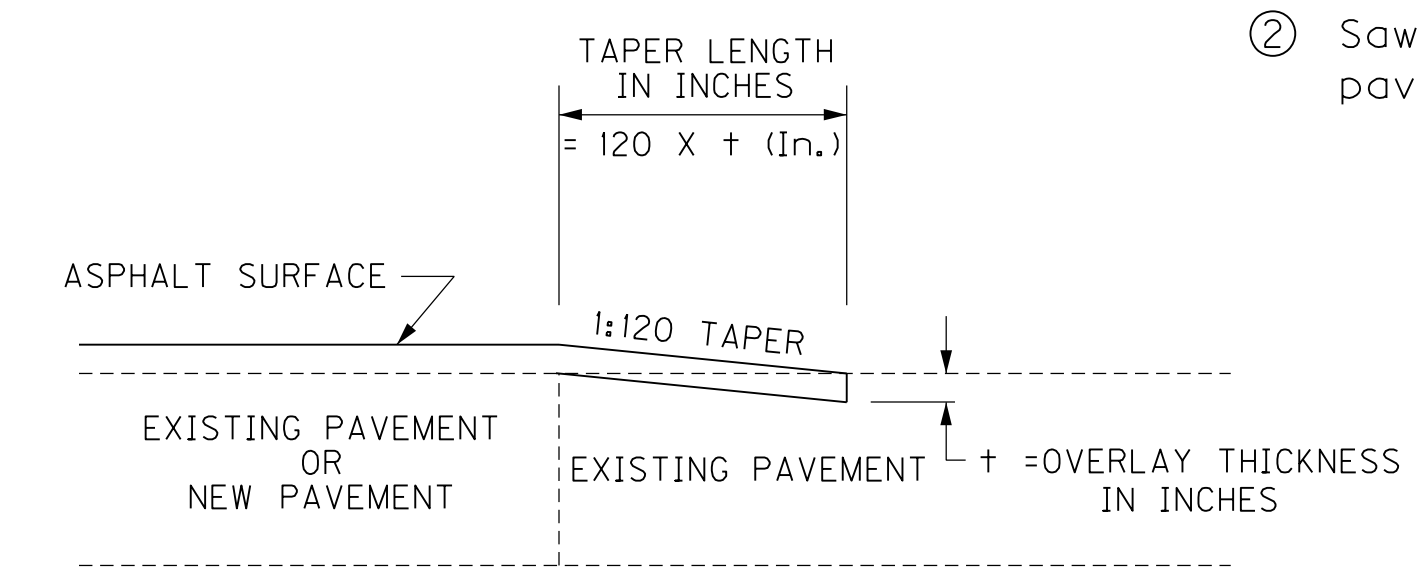


- NOTES:
- ① For slopes outside of shoulders, see X-Sects.
 - ② Sawcut as required to obtain a uniform edge of existing pavement for widening



- ① MINIMUM COMPACTED THICKNESS
 - ② ASPHALT MIXTURE FOR LEVELING AND WEDGING OR NEXT COURSE OF ASPHALT MIXTURE.
 - ③ ASPHALT SURFACE THICKNESS (FULL DEPTH)
 - ④ MILL EXISTING PAVEMENT TO RECEIVE ASPHALT SURFACE FULL DEPTH (EDGE KEY).
TAPER LENGTH (ft) = $\frac{t \text{ (in)} \times \text{TAPER RATE}}{12}$
- FOR A TAPER RATE OF 1:1200
TAPER LENGTH = 125 FEET WHEN t = 1.25 inches
TAPER LENGTH = 150 FEET WHEN t = 1.50 inches

TAPERING OF OVERLAYS ON HIGH SPEED FACILITIES (≥ 45 MPH)



TAPERING OF OVERLAYS ON LOW SPEED FACILITIES (<45 MPH)

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM-LOVERS\0805A TYPICAL.DGN
USER: Jim
DATE PLOTTED: February 21, 2012
E-SHEET NAME:
MicroStation v8.11.7.180

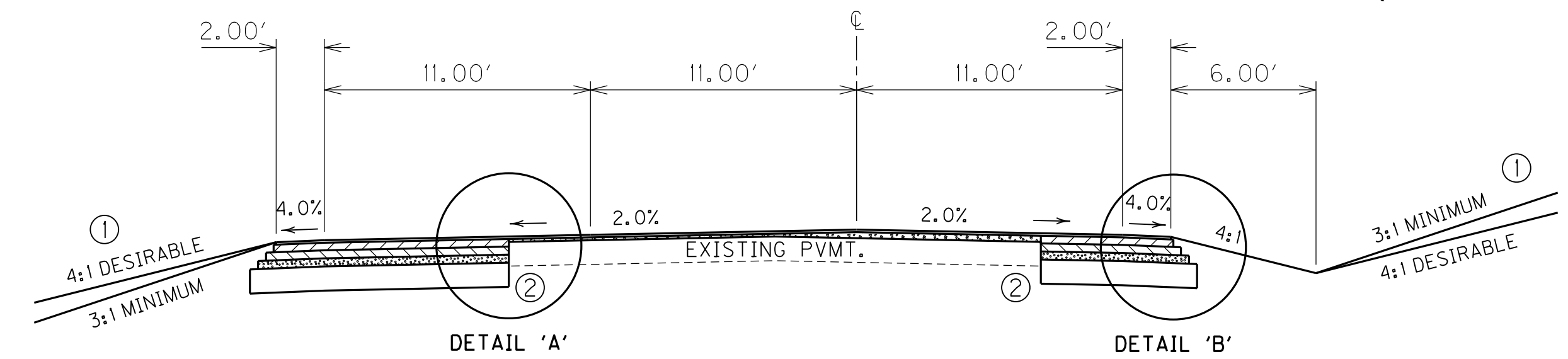
TYPICAL SECTIONS

(NOT TO SCALE)

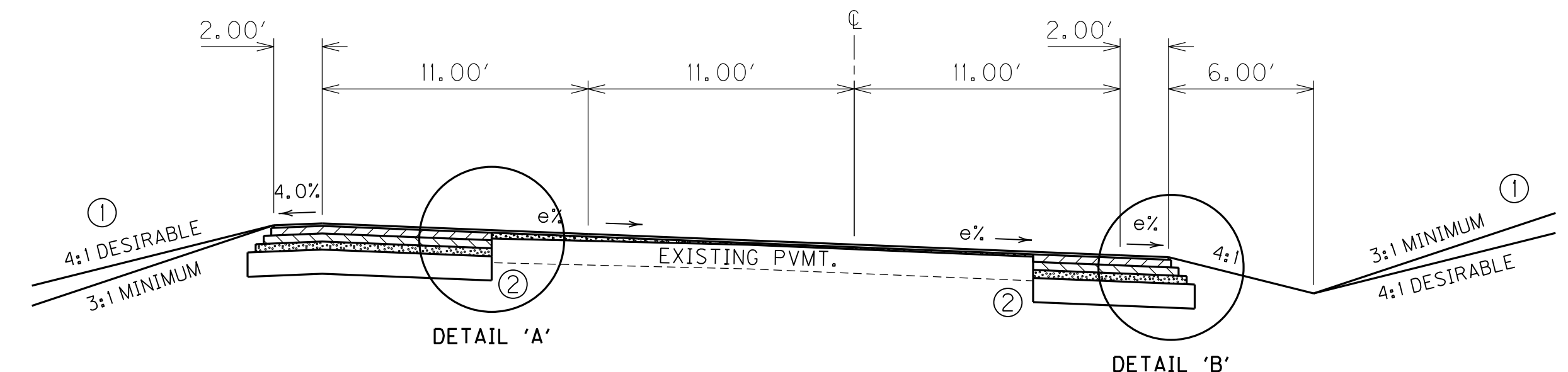
KY. 1819 - BILTOWN ROAD
PAVEMENT DESIGN

TRAFFIC LANES & PAVED SHOULDERS

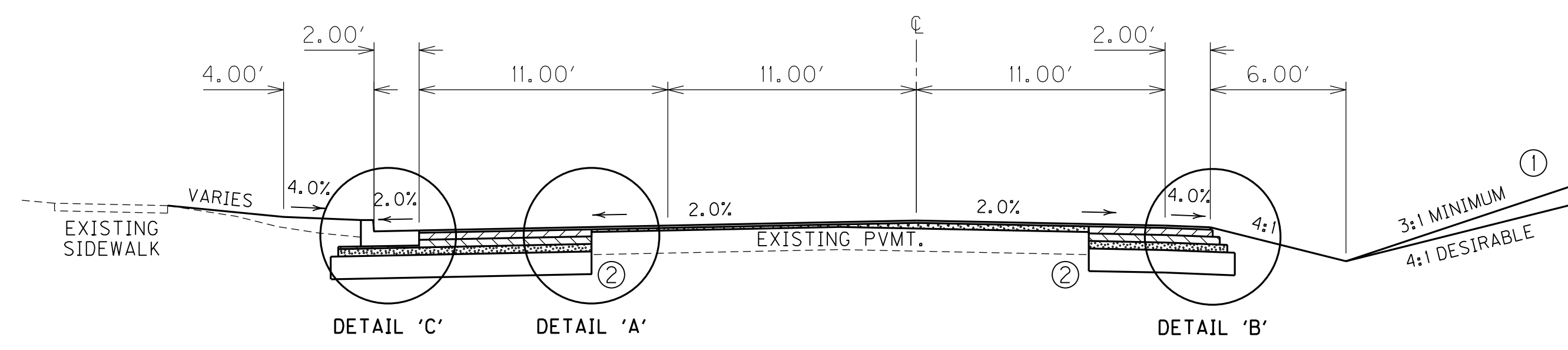
CL3 Asph Surf 0.38A PG64-22	1.25 in.
CL3 Asph Base 1.00D PG64-22	3.75 in.
CL3 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	4.0 in.



KY. 1819 - BILTOWN ROAD
NORMAL 3-LANE SECTION
STA. 14+67.50 TO STA. 26+83



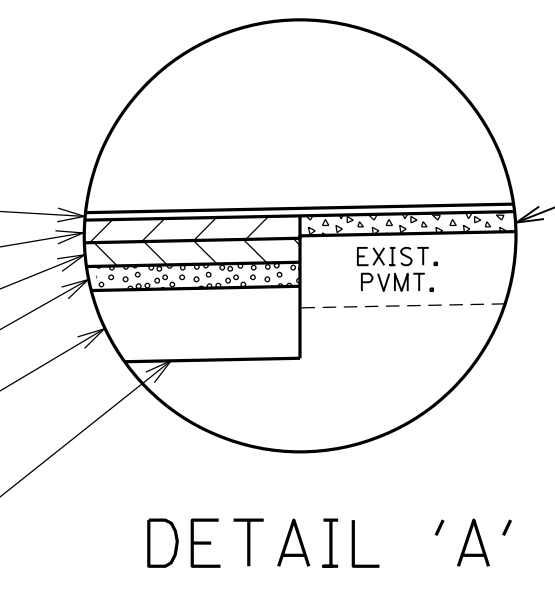
KY. 1819 - BILTOWN ROAD
SUPERELEVATED 3-LANE SECTION
STA. 14+67.50 TO STA. 26+83



KY. 1819 - BILTOWN ROAD
NORMAL 3-LANE SECTION
STA. 26+83 TO STA. 28+10

TRAFFIC LANES & PAVED SHLDR.

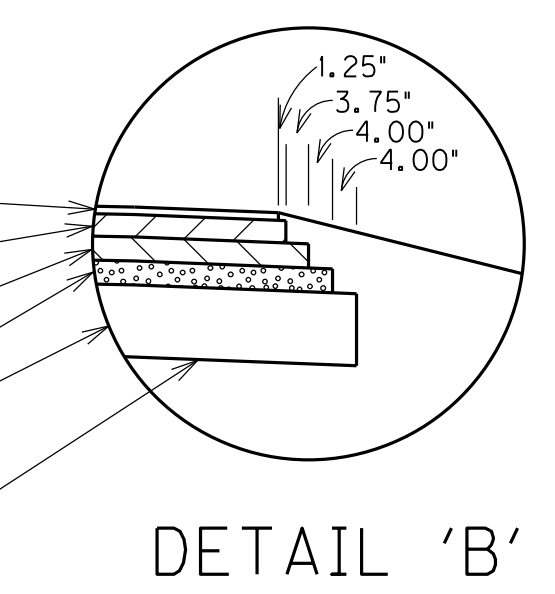
- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base
- 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
- Geotextile Fabric Type IV (as needed)
- Completely wrap No. 2 Stone



Level & Wedge (As Needed)
CL3 Asph Base 1.00D PG64-22

TRAFFIC LANES & PAVED SHLDR.

- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base
- 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
- Geotextile Fabric Type IV (as needed)
- Completely wrap No. 2 Stone

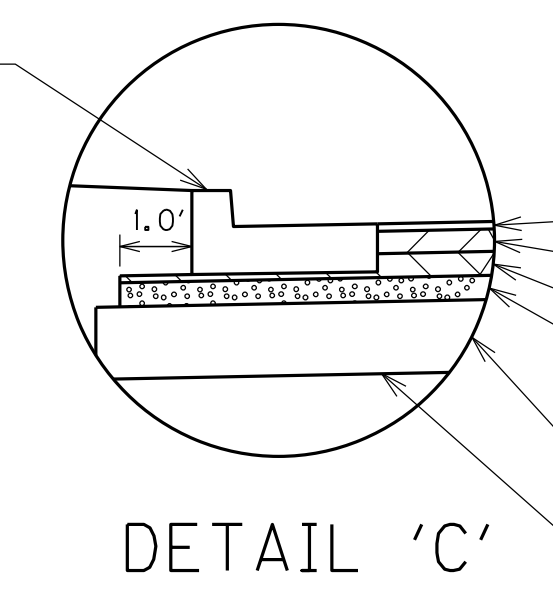


DETAIL 'B'

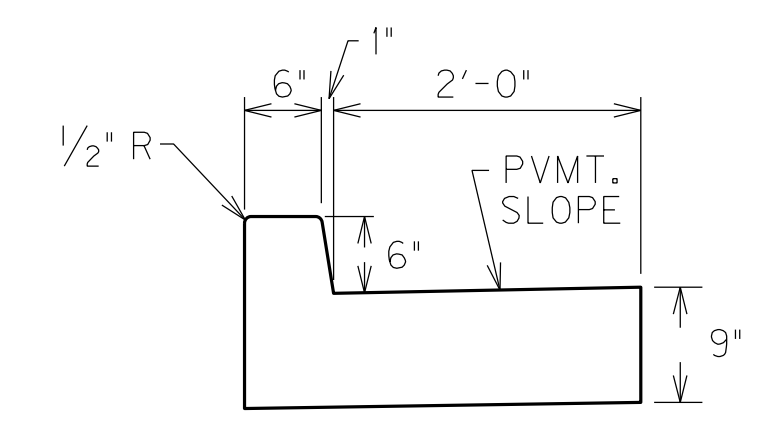
Std. Curb & Gutter Mod. (See Detail)

TRAFFIC LANES

- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base
- 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
- Geotextile Fabric Type IV (as needed)
- Completely wrap No. 2 Stone



DETAIL 'C'



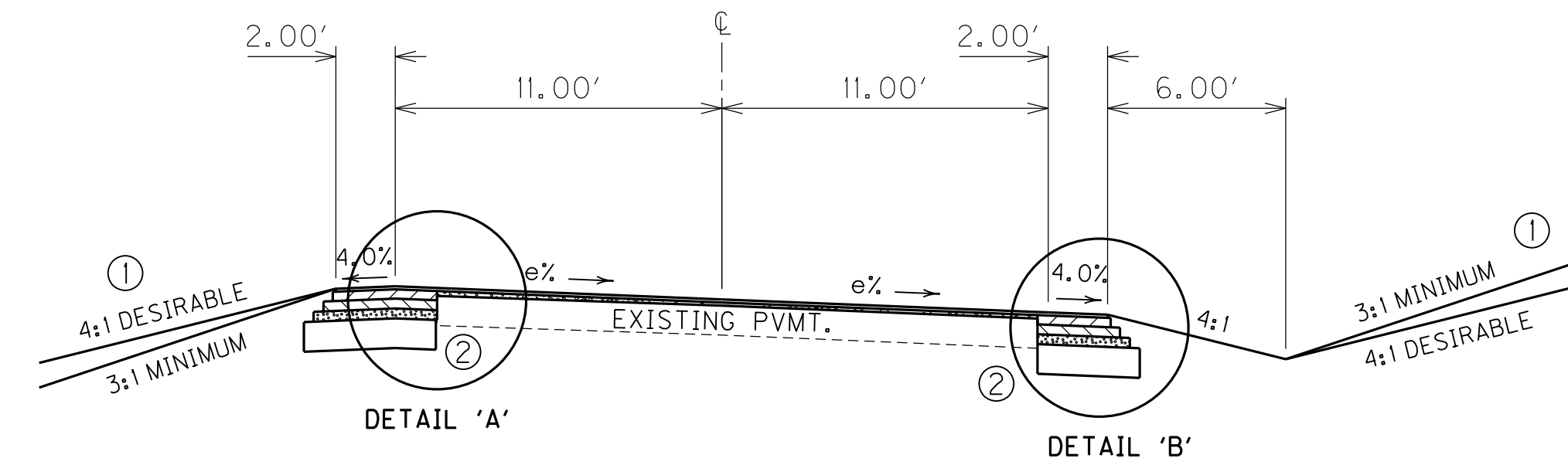
STANDARD CURB & GUTTER - MODIFIED
DETAIL

- NOTES:
- ① For slopes outside of shoulders, see X-Sects.
 - ② Sawcut as required to obtain a uniform edge of existing pavement for widening

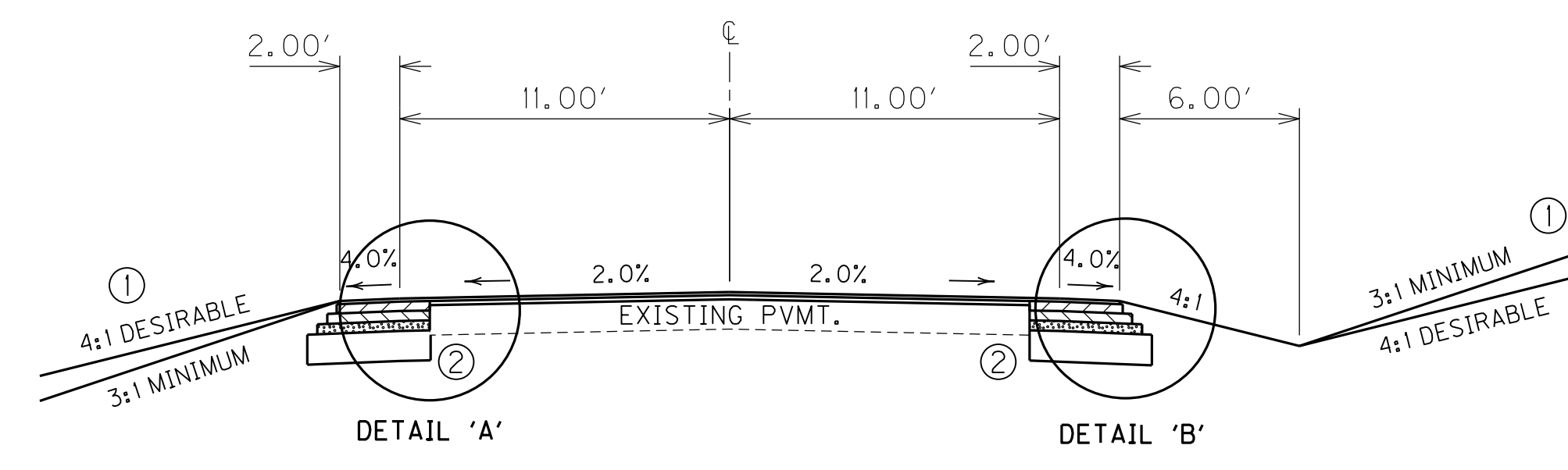
FILE NAME: F:\WORK\JEFFERSON\COV\PHASE II\DON\EA\SUM-LOVERS\0805A TYPICAL.DGN
 USER: Jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

TYPICAL SECTIONS

(NOT TO SCALE)



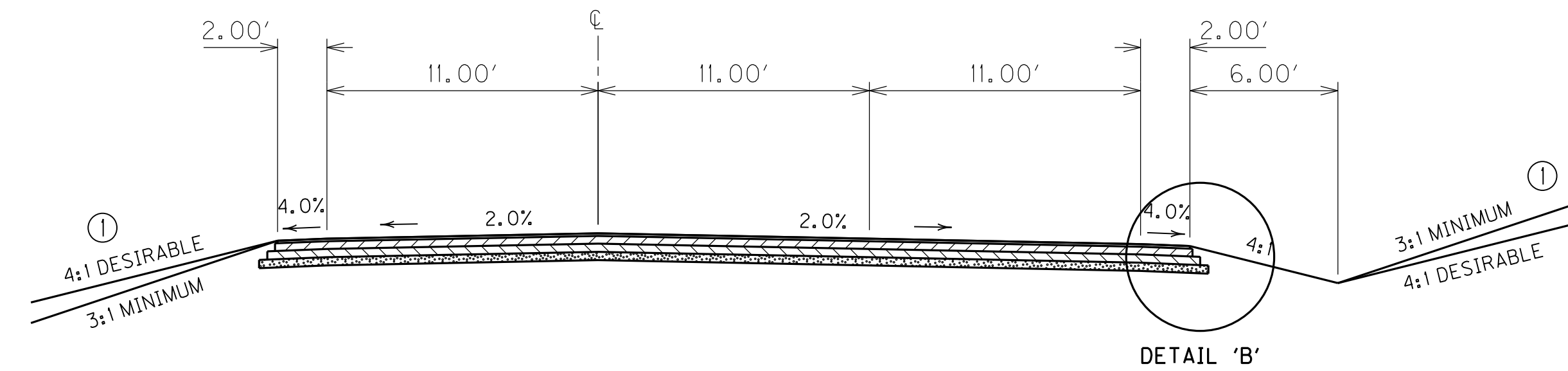
KY. 1065 - LOVERS LANE
SUPERELEVATED 2-LANE SECTION



EASUM ROAD
NORMAL 2-LANE SECTION

EASUM ROAD
KY. 1065 - LOVERS LANE
PAVEMENT DESIGN

TRAFFIC LANES & PAVED SHOULDERS		
CL3 Asph Surf 0.38A PG64-22		1.25 in.
CL3 Asph Base 1.00D PG64-22		3.75 in.
CL3 Asph Base 1.00D PG64-22		4.0 in.
Crushed Stone Base		4.0 in.

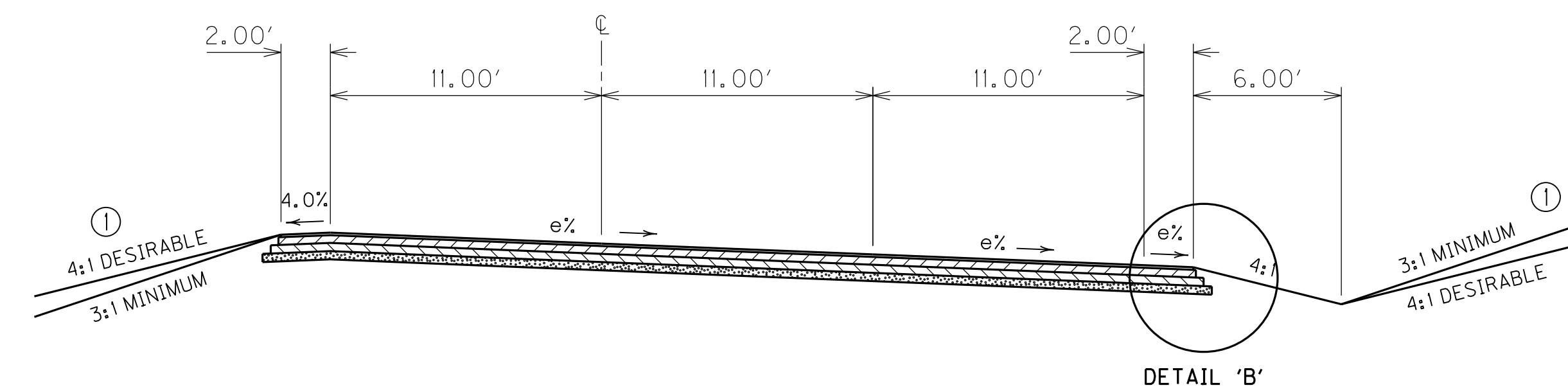


KY. 1065 - LOVERS LANE
NORMAL 3-LANE SECTION

TRAFFIC LANES & PAVED SHLDR.

- 1.25" CL3 Asph Surf 0.38A PG64-22
 - 3.75" CL3 Asph Base 1.00D PG64-22
 - 4.0" CL3 Asph Base 1.00D PG64-22
 - 4.0" Crushed Stone Base
 - 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
 - Geotextile Fabric Type IV (as needed)
 - Completely wrap No. 2 Stone
- Level & Wedge (As Needed)
CL3 Asph Base 1.00D PG64-22

DETAIL 'A'



KY. 1065 - LOVERS LANE
SUPERELEVATED 3-LANE SECTION

TRAFFIC LANES & PAVED SHLDR.

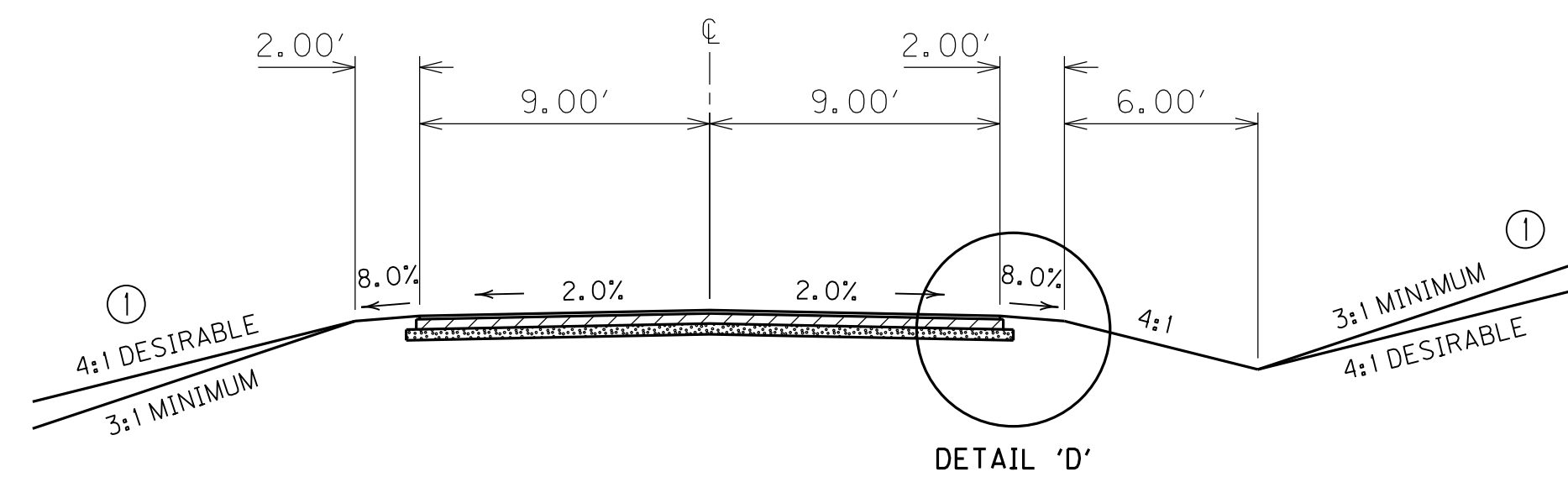
- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base
- 12" Spcl. excavation as needed to remove unsuitable material - backfill w/ No. 2 Stone
- Geotextile Fabric Type IV (as needed)
- Completely wrap No. 2 Stone

DETAIL 'B'

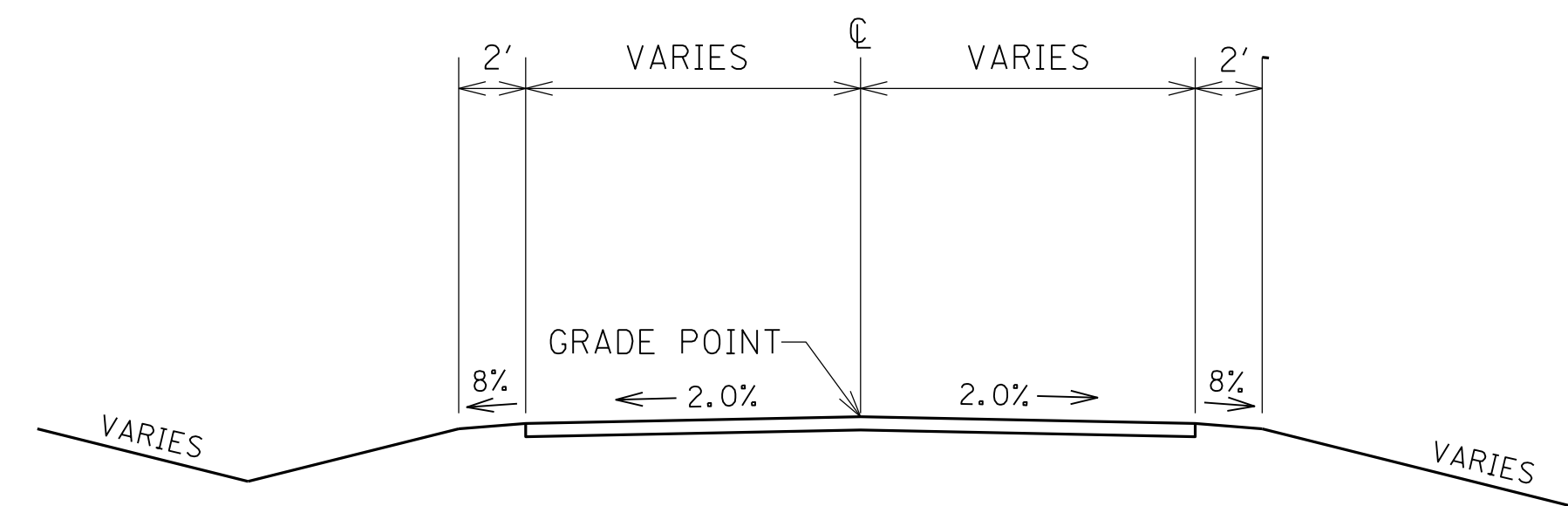
- NOTES: ① For slopes outside of shoulders, see X-Sects.
② Sawcut as required to obtain a uniform edge of existing pavement for widening

TYPICAL SECTIONS

(NOT TO SCALE)



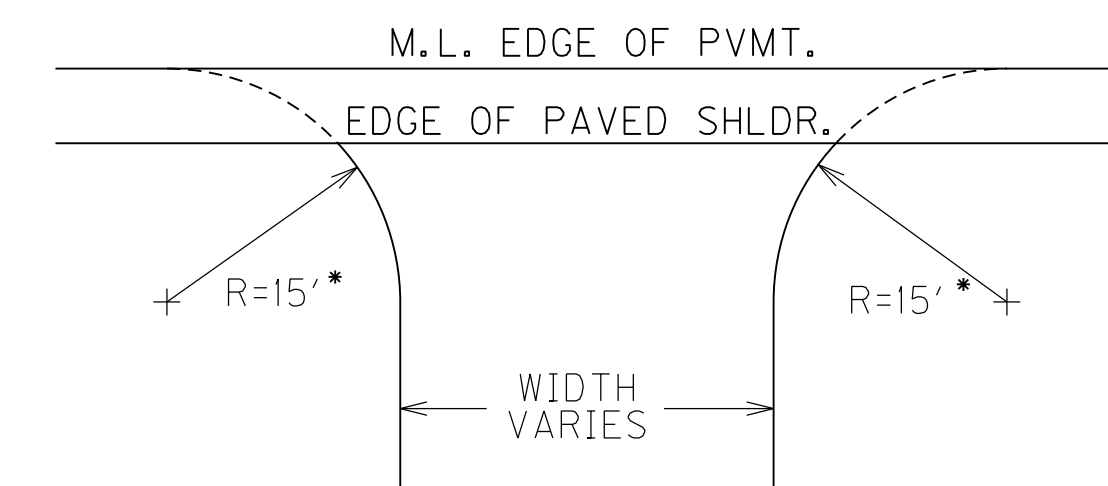
FRONTAGE ROAD
FRONTAGE ROAD TIE
NORMAL 2-LANE SECTION



ENTRANCE SECTION

ENTRANCE PAVEMENT DESIGN

<u>COMMERCIAL - ASPHALT</u>		
CL3 Asph Surf 0.38A PG64-22	1.25 in.	
CL3 Asph Base 1.00D PG64-22	2.0 in.	
Crushed Stone Base	6.0 in.	
<u>RESIDENTIAL - ASPHALT</u>		
CL3 Asph Surf 0.38A PG64-22	1.25 in.	
CL3 Asph Base 1.00D PG64-22	2.0 in.	
Crushed Stone Base	4.0 in.	
<u>RESIDENTIAL - CONCRETE</u>		
Rigid P.C.C.	8.0 in.	
Crushed Stone Base	4.0 in.	
<u>RESIDENTIAL - TRAFFIC BOUND BASE</u>		
TRAFFIC BOUND BASE	4.0 in.	

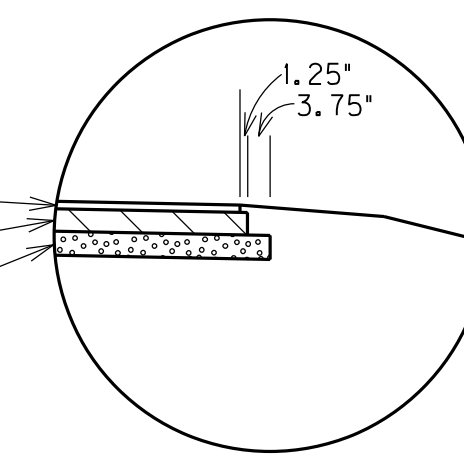


TYPICAL ENTRANCE LAYOUT

* - UNLESS OTHERWISE NOTED

TRAFFIC LANES

- 1.25" CL3 Asph Surf 0.38A PG64-22
- 3.75" CL3 Asph Base 1.00D PG64-22
- 4.0" Crushed Stone Base



DETAIL 'D'

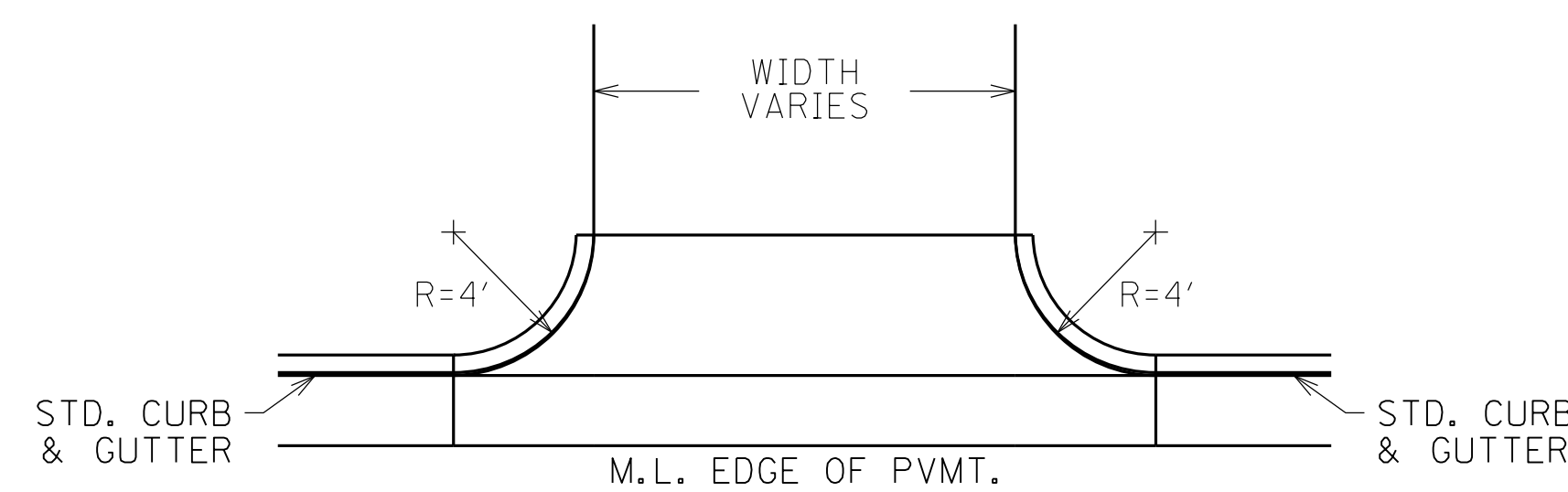
FRONTAGE ROAD FRONTAGE ROAD TIE PAVEMENT DESIGN

TRAFFIC LANES

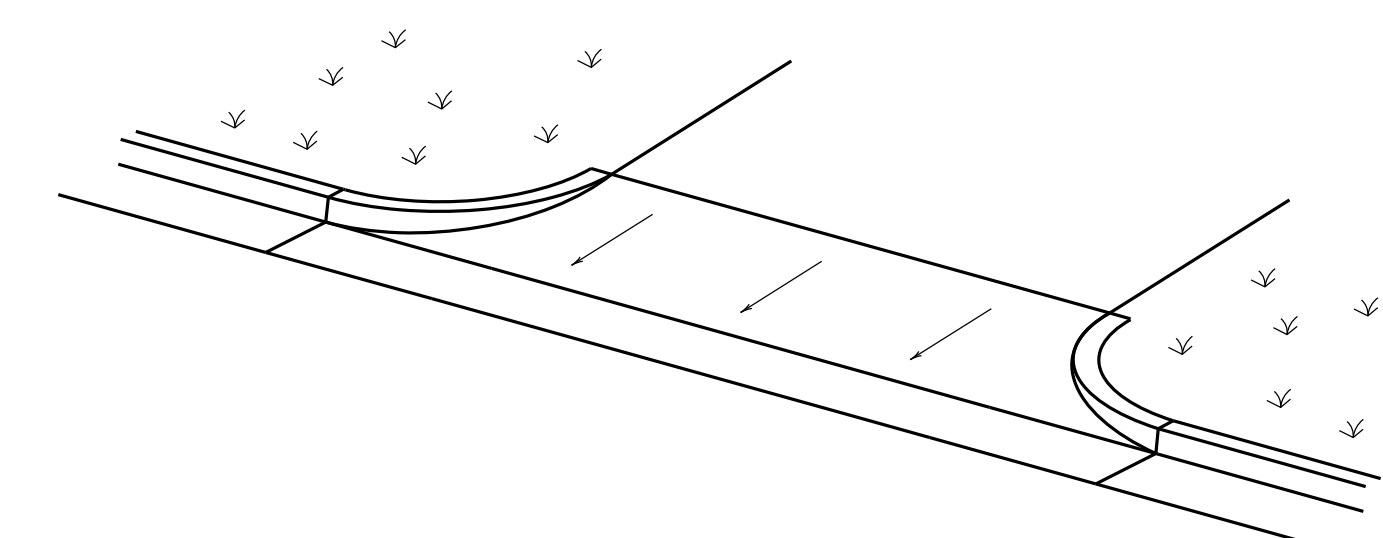
- CL3 Asph Surf 0.38A PG64-22 1.25 in.
- CL3 Asph Base 1.00D PG64-22 3.75 in.
- Crushed Stone Base 4.0 in.

SHOULDERS

Earth Shoulders



TYPICAL CONCRETE ENTRANCE
PAVEMENT LAYOUT



NOTES: ① For slopes outside of shoulders, see X-Sections.

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R2D

ITEM	DESCRIPTION	UNIT	MAINLINE (KY 1819)	EASUM ROAD	LOVERS LANE (KY 1065)	MARY DELL DRIVE	FRONTAGE ROAD	FRONTAGE ROAD TIE	TOTAL PROJECT
1811	STANDARD CURB & GUTTER MODIFIED	LF	344						344
2091	REMOVE PAVEMENT	SY			327				327
2159	TEMPORARY DITCH	LF	2,762	124	317	78	271	75	3,627
2200	ROADWAY EXCAVATION	CY							3,502
2381	REMOVE GUARDRAIL	LF	25		50				75
2429	RIGHT-OF-WAY MONUMENT TYPE I	EACH	17	3	1				21
2432	WITNESS POST	EACH	3						3
2483	CHANNEL LINING CLASS II	TON	82						82
2545	CLEARING AND GRUBBING ①	LS							1
2562	SIGNS	SO FT							345
2568	MOBILIZATION	LS							1
2569	DEMOBILIZATION	LS							1
2585	EDGE KEY	LF	46	22	21	49			138
2599	FABRIC-GEOTEXTILE TYPE IV ④	SY							11,562
2600	GEOTEXTILE FABRIC TY. IV FOR PIPES	SY	1680	68		85			1833
2650	MAINTAIN AND CONTROL TRAFFIC	LS							1
2690	SAFELoading	CY	2.5	3.7					6.2
2701	TEMPORARY SILT FENCE	LF	2,762	124	317	78	271	75	3,627
2703	SILT TRAP TYPE A	EACH	8						8
2704	SILT TRAP TYPE B	EACH	8						8
2705	SILT TRAP TYPE C	EACH	8						8
2706	CLEAN SILT TRAP TYPE A ②	EACH	24						24
2707	CLEAN SILT TRAP TYPE B ②	EACH	24						24
2708	CLEAN SILT TRAP TYPE C ②	EACH	24						24
2709	CLEAN TEMPORARY SILT FENCE ③	LF	2,762	124	317	78	271	75	3,627
2720	SIDEWALK - 4 INCH CONCRETE	SY	26.1						26.1
2726	STAKING	LS							1
5950	EROSION CONTROL BLANKET	SY	544		160		201		905
5952	TEMPORARY MULCH	SY	30,302						30,302
5953	TEMPORARY SEEDING AND PROTECTION	SY	30,302						30,302
5985	SEEDING AND PROTECTION	SY	1,689	-	729	-	447	-	2,865
5990	SODDING	SY	8,029	207	-	-	128	-	8,364
5966	TOPDRESSING FERTILIZER	TON							0.60
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	5,460		330				5,790
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	13,600	400	1,300		60		15,360
6566	PAVE MARKING-THERMO X-WALK-12 IN	LF	159						159
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	44	32	33	47		30	186
6574	PAVE MARKING-PRE THERM CURVE ARROW	EACH	10		4				14
20550ND	SAWCUT PAVEMENT	LF	5,450						5,450
23158ES505	DETECTABLE WARNINGS	SF	30						30
23274ENIIF	TURF REINFORCEMENT MAT 1	SY	116						116
10020NS	FUEL ADJUSTMENT	DOLLAR							8,045
10030NS	ASPHALT ADJUSTMENT	DOLLAR							11,234

NOTES:

- ① Approx. 4.30 Acres
(Includes area inside disturb limits only)
- ② THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) EACH TRAP WHENEVER THEY BECOME ONE-HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE ENGINEER. THIS IS ESTIMATED AT THREE TIMES PER TRAP PER CONSTRUCTION SEASON.
- ③ THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) TEMPORARY SILT FENCE ONCE.
- ④ SEE TYPICAL SECTIONS FOR LOCATION

- PROJECT EARTHWORK TOTALS -

3,404	C.Y.	COM.	
35	C.Y.	DT. LT.	
0	C.Y.	DT. RT.	
63	C.Y.	INLET/OUTLET DITCHES	
3,502	C.Y.	TOTAL RDWY. EXC.	

1,668	C.Y.	EMB.	
19	C.Y.	REFILL	
1,687	C.Y.	TOTAL EMB.	

FILE NAME: F:\WORK\JEFFERSON\CON\PHASE II\DON\EA\SUM\LOVERS\0805AGENSUM.DGN

USER: Jim
DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

MicroStation v8.11.7.180

E-SHEET NAME:

USER: Jim
DATE PLOTTED: February 21, 2012

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM\LOVERS\0805APAVESUM.DGN

PAVING AREAS

ITEM	S		Q		U		A		R		E		Y		A		R		D		TOTAL PROJECT
	MAINLINE KY 1819 ⑤				EASUM RD.		LOVERS LANE KY 1065		FRONTAGE ROAD		FRONTAGE ROAD TIE				ENTRANCES						
1/4" CL 3 ASPHALT SURFACE 0.38A PG 64-22	11,642		213			883		539		190				869		14,336					
2" CL 3 ASPHALT BASE 1.00D PG 64-22														873							
3 3/4" CL 3 ASPHALT BASE 1.00D PG 64-22	4,483		45			537		544		192						5,801					
4" CL 3 ASPHALT BASE 1.00D PG 64-22	4,650		48			551										5,249					
4" CRUSHED STONE BASE	5,060		52			566		561		197				1,390		7,826					
6" CRUSHED STONE BASE														50		50					
LEVEL & WEDGING PG64-22 (AV. DEPTH - 3")	7,214															7,214					
LEVEL & WEDGING PG64-22 (AV. DEPTH - 1 1/2")			170													170					
LEVEL & WEDGING PG64-22 (AV. DEPTH - 1 1/4")						350										350					
8" CEMENT CONCRETE ENTRANCE PAVEMENT																			571	571	
4" TRAFFIC BOUND BASE																			400	400	

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	② MAINLINE	APPROACH ROADS	ENTRANCES	TOTAL PROJECT
22906ES4	CL 3 ASPH. SURF. 0.38A PG64-22	TON	800	125	60	985
214	CL 3 ASPH. BASE 1.00D PG64-22	TON	1,948	404	96	2,448
3	CRUSHED STONE BASE ①	TON	1,164	316	337	1,817
190	LEVEL & WEDGING PG64-22	TON	1,190	40		1,230
2101	CEMENT CONCRETE ENTRANCE PAVEMENT - 8 INCH	SY			571	571
20	TRAFFIC BOUND BASE ①	TON			92	342 ③
78	CRUSHED AGGREGATE SIZE NO. 2 ② ④	TON				3,122
2204	SPECIAL EXCAVATION ⑥	CY				1,928

- NOTES**
- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
 - ② ESTIMATED AT 90 LBS. PER SQ. YD. PER INCH OF DEPTH.
 - ③ INCLUDES 250 TONS OF TRAFFIC BOUND BASE FOR MAINTENANCE OF TRAFFIC.
 - ④ 3,122 TONS OF NO. 2 STONE FOR POSSIBLE UNSUITABLE MATERIAL OR ROADWAY FAILURES.
 - ⑤ QUANTITIES FOR MARY DELL LANE EAST AND WEST ARE INCLUDED IN MAINLINE TOTALS.
 - ⑥ 1,928 C.Y. OF SPECIAL EXCAVATION FOR POSSIBLE UNSUITABLE MATERIAL OR ROADWAY FAILURES.

PAVING AREA AND SUMMARY

PIPE DRAINAGE SUMMARY

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DGN\EASUM-LOVERS\0805ADRNSUM.DGN
 USER: andy
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

SHEET NO.		SKREW	DESIGN PH	COVER HEIGHT	ENTRANCE PIPE 15"	ENTRANCE PIPE 18"		CULVERT PIPE 18"	CULVERT PIPE 24"	STORM SEWER PIPE 15"	STORM SEWER PIPE 18"	STORM SEWER PIPE 24"	STORM SEWER PIPE 30"	SLOPED & FLARED BOX INLET-OUTLET 18"	SLOPED & FLARED BOX INLET-OUTLET 24"	SLOPED & FLARED BOX INLET-OUTLET 30"	CURB BOX INLET TYPE A	DROP BOX INLET TYPE II	MANHOLE TYPE A	MANHOLE TYPE C	JUNCTION BOX BI 18"		PIPELINE VIDEO INSPECTION	DITCH EXCAVATION	REMARKS
	ITEM CODE				440	441		462	464	521	522	524	526	1450	1451	1452	1456	1544	1756	1767	4811		2313IER701		
	UNIT TO BID			Ft.	Lin. Ft.										Each							Lin. Ft.	Cu. Yd.		
	MAINLINE																								
	8+25	0°	M	3					51						2								26	34	
	10+00	0°	M	2							67											1	34	2	
	10+55	0°	M	2						91								1					46		
	14+00	0°	M	2						202								1					101		
	22+30	0°																1							TIES TO EXIST. 15" RCP
	22+75.83	0°	M	3								87	4			1				1			46	5	
	23+65	0°	M	4							187			1				1	1				94	3	
	24+39	0°	M	2							31							1					16		
	24+71	0°	M	2							68							1					34		
	25+40	0°	M	3							173							1					87		
	27+15	0°	M	4						175							1						88		
	28+92	0°	M	4						16							1	1					8		
	32+10	0°	M	4						60							1						30		
	EASUM ROAD																								
	50+47	0°	M	3				48						2									24		
	MARY DELL LN. EAST																								
	50+31	0°	M	2				60						2									30	19	
	ENTRANCE PIPES																								
	MAINLINE																								
	RT. 6+79				30																				
	LT. 7+15				24																				
	RT. 7+50				28																				
	LT. 8+47				24																				
	RT. 10+40					31																			
	RT. 11+20					28																			
	LT. 12+12				32																				
	RT. 12+35					61																			
	RT. 14+64					50																			
	RT. 15+67				25																				
	LT. 16+42				33																				
	RT. 16+60				26																				
	RT. 17+90				29																				
	RT. 21+20				26																				
	RT. 27+80				25																				
	RT. 28+72				25																				
	RT. 30+80				30																				
	RT. 32+60				29																				
	RT. 32+97				33																				
	EASUM ROAD																								
	LT. 50+88.50				24																				
	FRONTAGE ROAD																								
	RT. 11+10				37																				
	TOTAL PROJECT				480	170		108	51	544	526	87	4	5	2	1	3	8	1	1	1		664	63	

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R2G

GENERAL NOTES

165 BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHOM DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

190 DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

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

455 EDGE KEY

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

650 STANDARD DRAWINGS

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

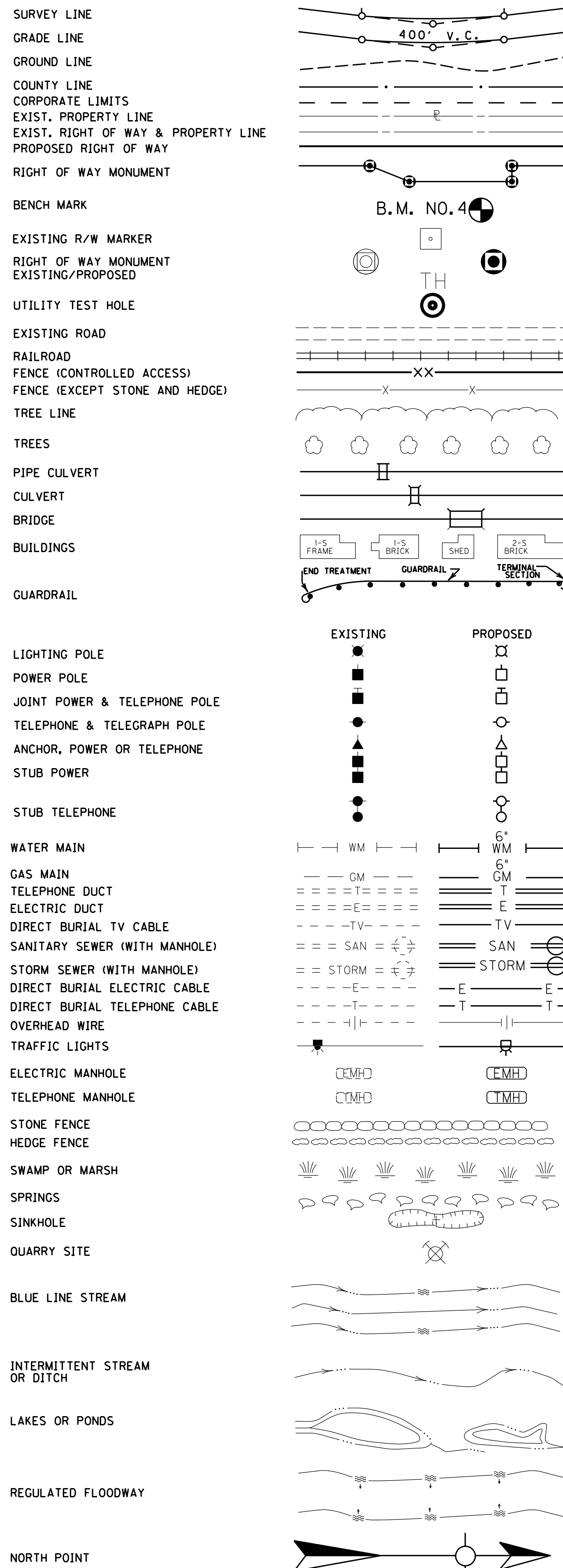
FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DCN\EA\SUM-LOVERS\0805AGENNOTES.DGN

USER: doug
DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

CONVENTIONAL SIGNS



CONSTRUCT ENTRANCE LT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
7+15 (RES.)	12'	-	-	39.3	24 - 15"
8+47 (RES.)	12'	35.2	-	-	24 - 15"

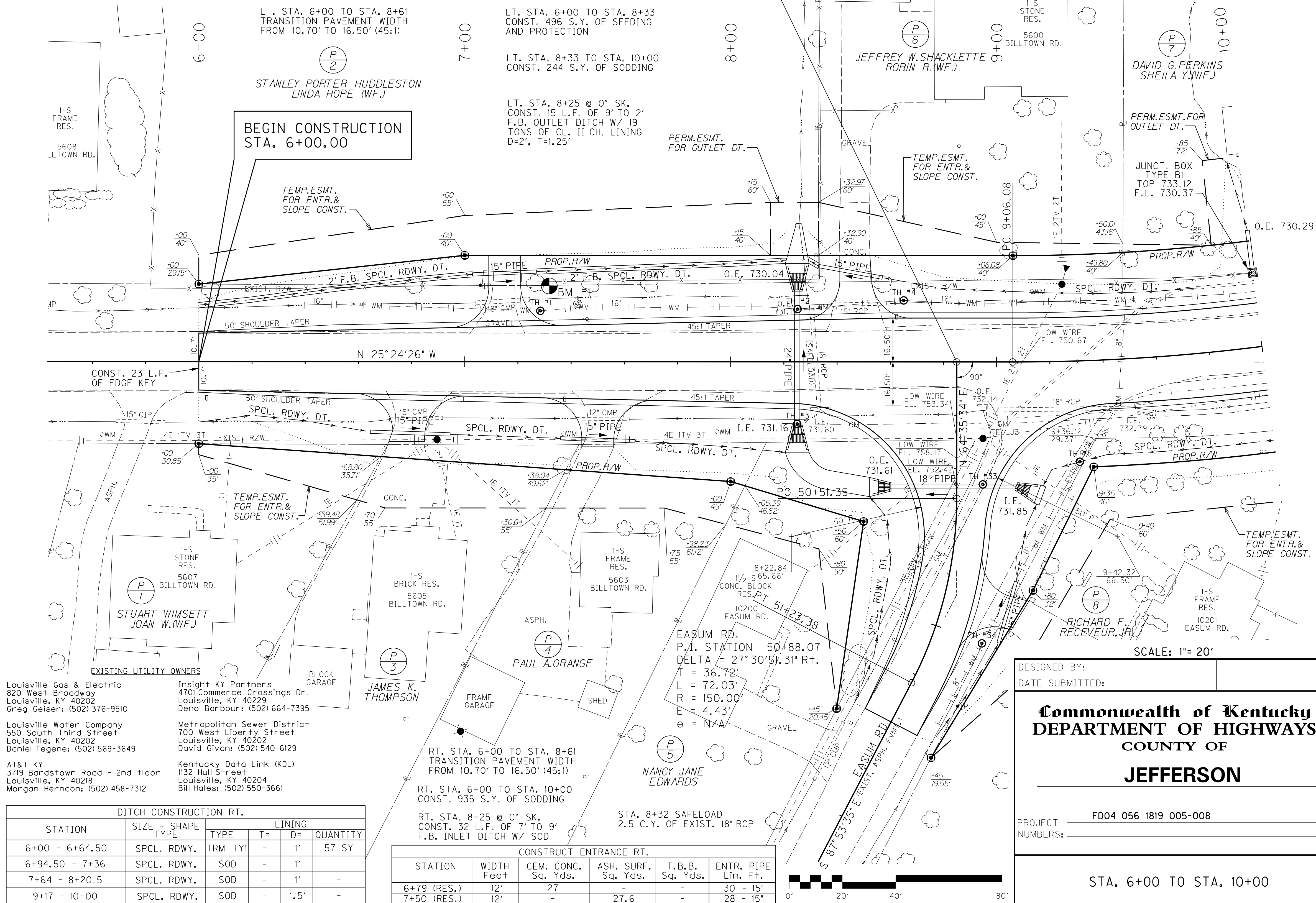
BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

BM #1: ELEV. 732.66 STA. 7+31.78, 28.50' LEFT I.P. & CAP SET IN CONCRETE

DITCH CONSTRUCTION LT.						
STATION	SIZE - SHAPE	TYPE	LINING			QUANTITY
			T=	D=		
6+00 - 7+03	2' F.B. SPCL.	ECB	-	1'		114 SY
7+27 - 8+21	2' F.B. SPCL.	ECB	-	1'		105 SY
8+29.5 - 8+33	2' F.B. SPCL.	CL II	1.25'	1'		4 TONS
8+57 - 8+90	SPCL. RDWY.	TRM TYI	-	1'		30 SY
8+90 - 9+80	SPCL. RDWY.	SOD	-	1'		-

STA. 8+85 BILLTOWN RD. = STA. 50+00 EASUM ROAD



P.I. STATION 10+27.19
 DELTA = 18°20'46.25" Lt.
 T = 121.11'
 L = 240.15'
 R = 750.00'
 E = 9.72'
 e = 5.87%
 Runoff = 130.53'
 Runout = 44.48'

DITCH CONSTRUCTION RT.						
STATION	SIZE - SHAPE	TYPE	LINING			QUANTITY
			T=	D=		
6+00 - 6+64.50	SPCL. RDWY.	TRM TYI	-	1'		57 SY
6+94.50 - 7+36	SPCL. RDWY.	SOD	-	1'		-
7+64 - 8+20.5	SPCL. RDWY.	SOD	-	1'		-
9+17 - 10+00	SPCL. RDWY.	SOD	-	1.5'		-

CONSTRUCT ENTRANCE RT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
6+79 (RES.)	12'	27	-	-	30 - 15"
7+50 (RES.)	12'	-	27.6	-	28 - 15"

DESIGNED BY: _____
 DATE SUBMITTED: _____

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY OF
JEFFERSON

PROJECT: FD04 056 1819 005-008
 NUMBERS: _____

SCALE: 1"= 20'

STA. 6+00 TO STA. 10+00

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EASUM-LOVERS\0805APL1.DGN
 USER: Jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

BM #1: ELEV. 732.66 STA. 7+31.78, 28.50' LEFT
I.P. & CAP SET IN CONCRETE

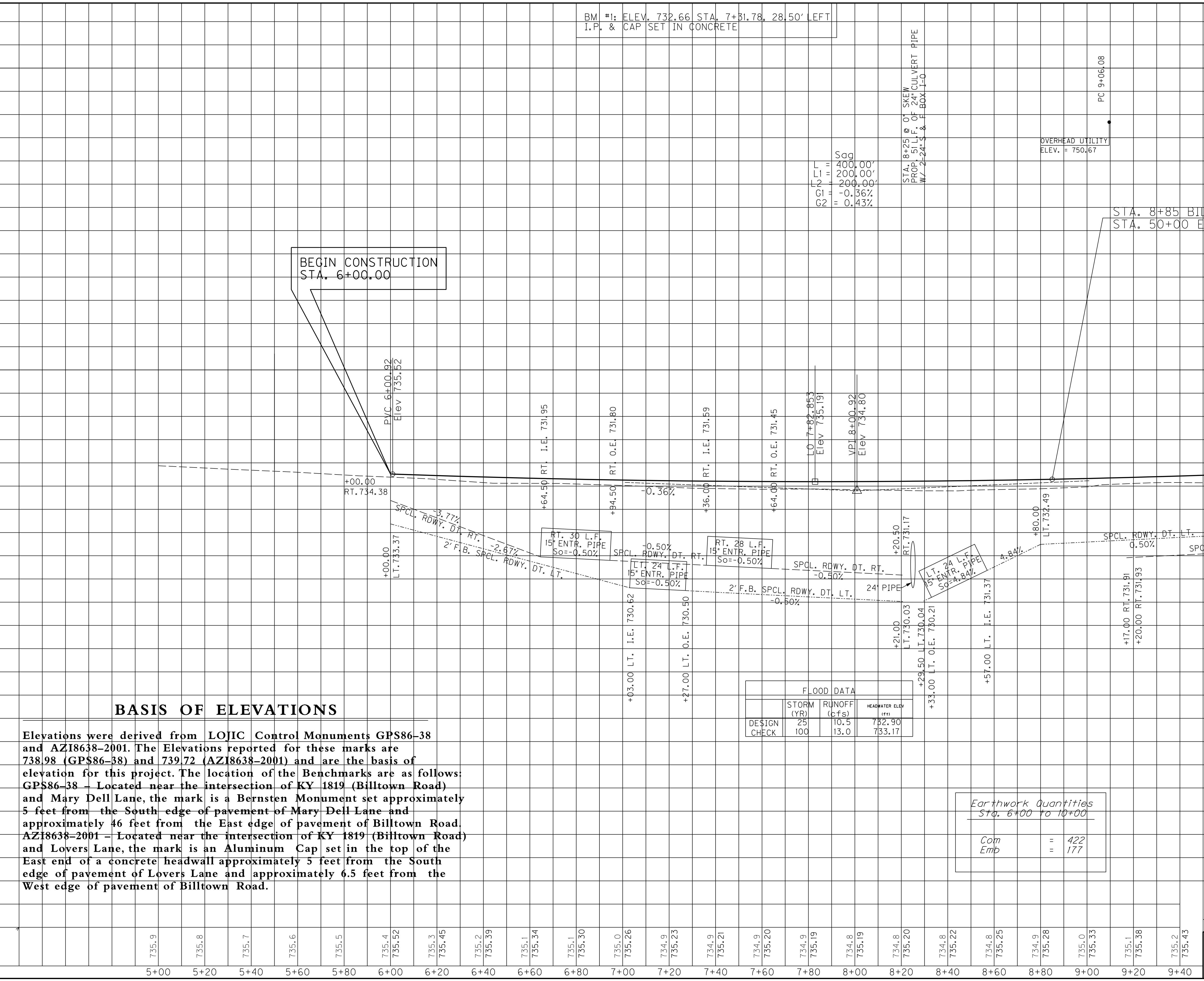
STA. 8+25 @ 0' SKEW
PROP. 51' L.F. OF 24" CULVERT PIPE
W/ 2'-24" S. & E. BOX I-O

OVERHEAD UTILITY
ELEV. = 750.67

S_g = 400.00'
L₁ = 200.00'
L₂ = 200.00'
G₁ = -0.36%
G₂ = 0.43%

STA. 8+85 BILLTOWN RD. =
STA. 50+00 EASUM ROAD

BEGIN CONSTRUCTION
STA. 6+00.00



BASIS OF ELEVATIONS

Elevations were derived from LOJIC Control Monuments GPS86-38 and AZI8638-2001. The Elevations reported for these marks are 738.98 (GPS86-38) and 739.72 (AZI8638-2001) and are the basis of elevation for this project. The location of the Benchmarks are as follows:
GPS86-38 - Located near the intersection of KY 1819 (Billtown Road) and Mary Dell Lane, the mark is a Bernsten Monument set approximately 5 feet from the South edge of pavement of Mary Dell Lane and approximately 46 feet from the East edge of pavement of Billtown Road.
AZI8638-2001 - Located near the intersection of KY 1819 (Billtown Road) and Lovers Lane, the mark is an Aluminum Cap set in the top of the East end of a concrete headwall approximately 5 feet from the South edge of pavement of Lovers Lane and approximately 6.5 feet from the West edge of pavement of Billtown Road.

FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	10.5	732.90
CHECK	100	13.0	733.17

Earthwork Quantities Sta. 6+00 to 10+00	
Com	= 422
Emb	= 177

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

735.1	735.50	735.1	735.57	735.2	735.66
9+60	9+80	10+00			

STA. 6+00 TO STA. 10+00

FILE NAME: F:\WORK\JEFFERSON\CO\PHASE II\DON\EASUM-LOVERS\0805APR11.DGN
 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

P.I. STATION 10+27.19
 DELTA = 18°20'46.25" Lt.
 T = 121.11'
 L = 240.15'
 R = 750.00'
 E = 9.72'
 e = 5.87%
 Runoff = 130.53'
 Runout = 44.48'

CONSTRUCT ENTRANCE LT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
10+20 (RES.)	12'	-	28.7	-	-
11+35 (RES.)	12'	-	-	35.3	-
12+12 (RES.)	16'	-	44.7	-	32 - 15'
13+82 (COM.)	23'	-	52.1	-	-
15+51 (RES.)	12'	-	-	27.6	-

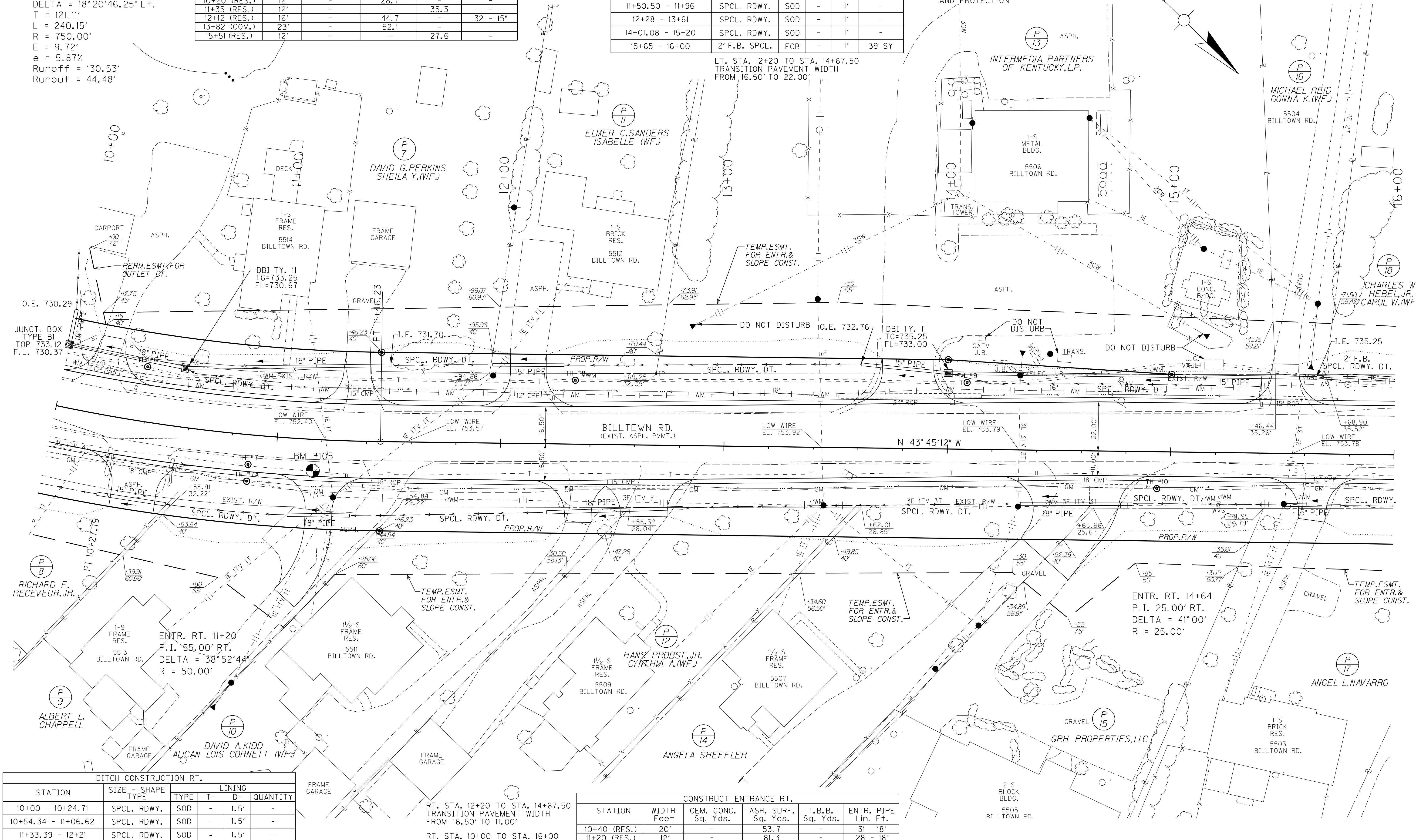
DITCH CONSTRUCTION LT.						
STATION	SIZE - SHAPE TYPE	LINING			QUANTITY	
		TYPE	T=	D=		
10+55 - 11+00	SPCL. RDWY.	SOD	-	1'	-	
11+50.50 - 11+96	SPCL. RDWY.	SOD	-	1'	-	
12+28 - 13+61	SPCL. RDWY.	SOD	-	1'	-	
14+01.08 - 15+20	SPCL. RDWY.	SOD	-	1'	-	
15+65 - 16+00	2' F.B. SPCL.	ECB	-	1'	39 SY	

LT. STA. 10+00 TO STA. 15+45
 CONST. 1037 S.Y. OF SODDING

LT. STA. 15+57 TO STA. 16+00
 CONST. 86 S.Y. OF SEEDING
 AND PROTECTION

LT. STA. 12+20 TO STA. 14+67.50
 TRANSITION PAVEMENT WIDTH
 FROM 16.50' TO 22.00'

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EA\SUM-LOVERS\0805APL2.DGN
 USER: Jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



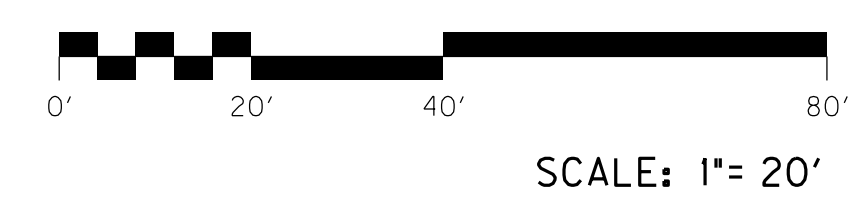
DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE TYPE	LINING			QUANTITY
		TYPE	T=	D=	
10+00 - 10+24.71	SPCL. RDWY.	SOD	-	1.5'	-
10+54.34 - 11+06.62	SPCL. RDWY.	SOD	-	1.5'	-
11+33.39 - 12+21	SPCL. RDWY.	SOD	-	1.5'	-
12+82 - 14+33	SPCL. RDWY.	SOD	-	1.5'	-
14+83 - 15+51.27	SPCL. RDWY.	SOD	-	1'	-
15+76.27 - 16+00	SPCL. RDWY.	SOD	-	1'	-

RT. STA. 12+20 TO STA. 14+67.50
 TRANSITION PAVEMENT WIDTH
 FROM 16.50' TO 11.00'

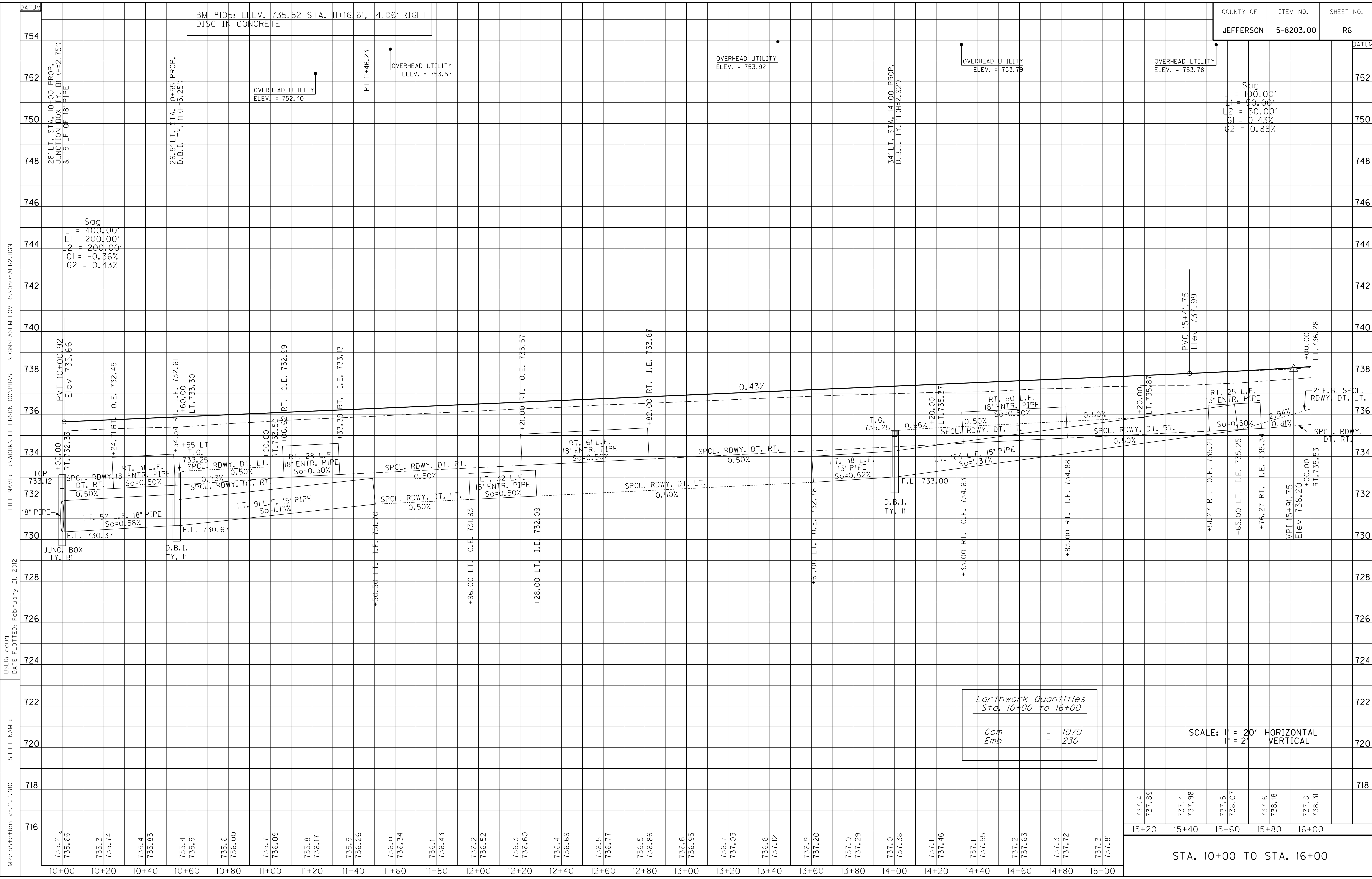
RT. STA. 10+00 TO STA. 16+00
 CONST. 1370 S.Y. OF SODDING

CONSTRUCT ENTRANCE RT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
10+40 (RES.)	20'	-	53.7	-	31 - 18"
11+20 (RES.)	12'	-	81.3	-	28 - 18"
12+35 (RES.)	12'	-	28.7	-	61 - 18"
12+66 (RES.)	20'	-	38.6	-	-
14+64 (RES.)	28'	-	-	151.7	50 - 18"
15+67 @ 7" SK. (RES.)	12'	-	29.2	-	25 - 15"

BM #105: ELEV 735.52 STA. 11+16.61, 14.06' RIGHT
 DISC IN CONCRETE



STA. 10+00 TO STA. 16+00



FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DN\VEASUM-LOWERS\0605APR2.DGN
 USER: doud
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

Earthwork Quantities
Sta. 10+00 to 16+00

Com = 1070
Emb = 230

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

737.4	737.4	737.5	737.6	737.8
737.89	737.98	738.07	738.18	738.31
15+20	15+40	15+60	15+80	16+00

STA. 10+00 TO STA. 16+00

Sag
L1 = 400.00'
L2 = 200.00'
C1 = -0.36%
C2 = 0.43%

Sag
L = 100.00'
L1 = 50.00'
L2 = 50.00'
C1 = 0.43%
C2 = 0.88%

Earthwork Quantities
Sta. 10+00 to 16+00

Com = 1070
Emb = 230

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

737.4	737.4	737.5	737.6	737.8
737.89	737.98	738.07	738.18	738.31
15+20	15+40	15+60	15+80	16+00

STA. 10+00 TO STA. 16+00

CONSTRUCT ENTRANCE LT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
16+42 (RES.)	20'	-	52.9	-	33 - 15'

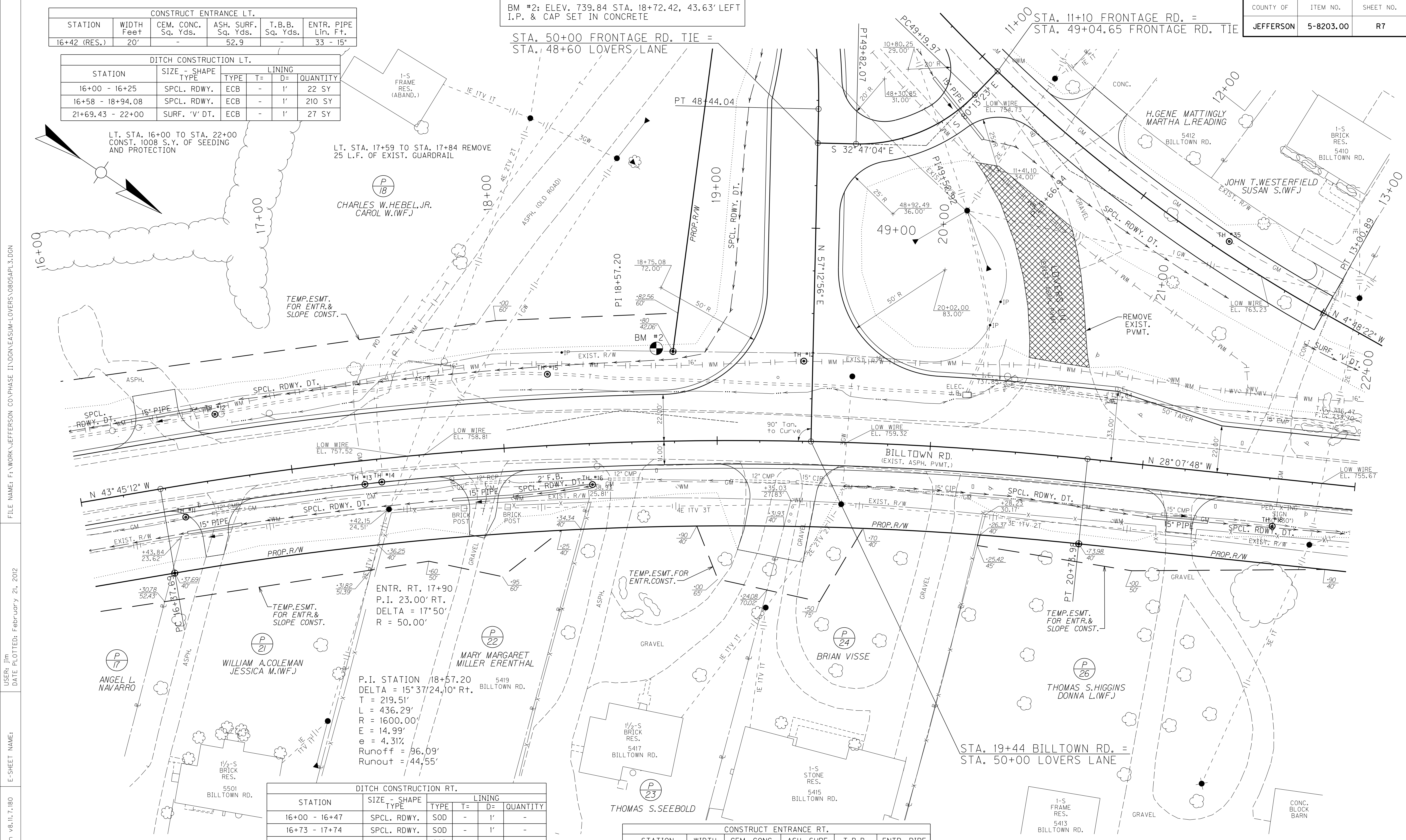
DITCH CONSTRUCTION LT.					
STATION	SIZE - SHAPE TYPE	LINING		QUANTITY	
		TYPE	D=		
16+00 - 16+25	SPCL. RDWY.	ECB	1'	22 SY	
16+58 - 18+94.08	SPCL. RDWY.	ECB	1'	210 SY	
21+69.43 - 22+00	SURF. 'V' DT.	ECB	1'	27 SY	

BM #2: ELEV. 739.84 STA. 18+72.42, 43.63' LEFT I.P. & CAP SET IN CONCRETE

STA. 50+00 FRONTAGE RD. TIE = STA. 48+60 LOVERS LANE

LT. STA. 16+00 TO STA. 22+00 CONST. 1008 S.Y. OF SEEDING AND PROTECTION

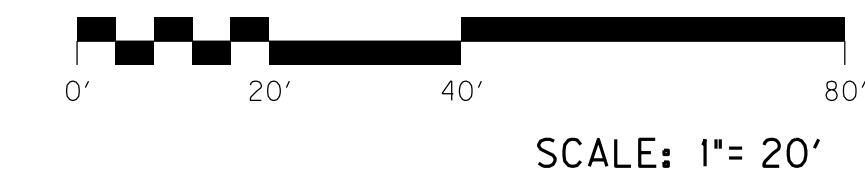
LT. STA. 17+59 TO STA. 17+84 REMOVE 25 L.F. OF EXIST. GUARDRAIL



RT. STA. 16+00 TO STA. 22+00 CONST. 1027 S.Y. OF SODDING

DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE TYPE	LINING		QUANTITY	
		TYPE	D=		
16+00 - 16+47	SPCL. RDWY.	SOD	1'	-	
16+73 - 17+74	SPCL. RDWY.	SOD	1'	-	
18+03 - 18+40	2' F.B. SPCL.	SOD	1'	-	
18+40 - 19+00	NORMAL RDWY.	SOD	1'	-	
19+60 - 21+07	SPCL. RDWY.	SOD	1'	-	
21+33 - 22+00	SPCL. RDWY.	SOD	1'	-	

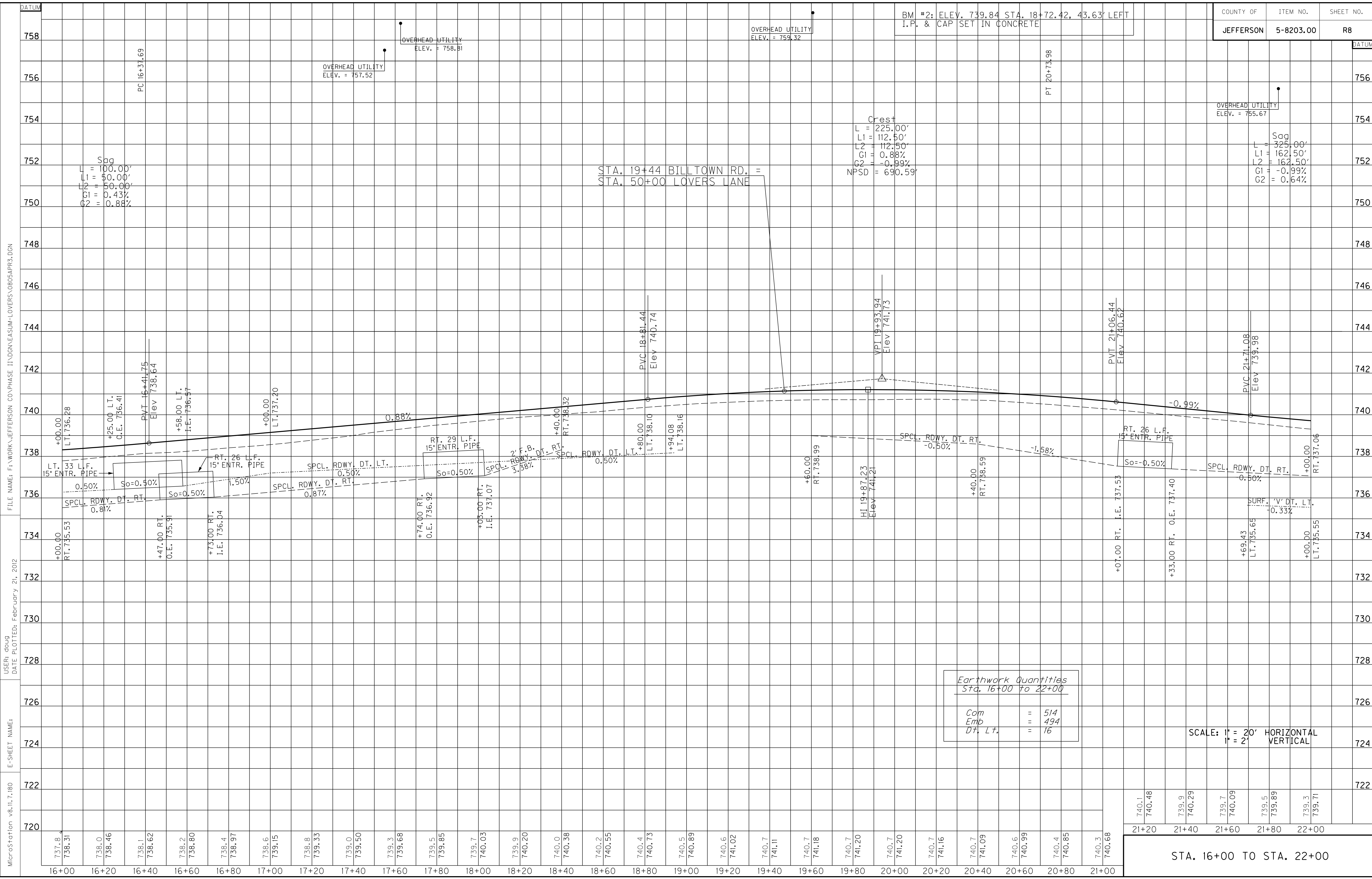
CONSTRUCT ENTRANCE RT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
16+60 (RES.)	12'	-	34	-	26 - 15'
17+90 (RES.)	12'	-	-	45.7	29 - 15'
19+36 @ 10'SK. (RES.)	30'	-	147.3	-	-
21+20 (RES.)	12'	-	-	29	26 - 15'



STA. 16+00 TO STA. 22+00

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EASUM-LOVERS\0805APL3.DGN
 USER: Jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

BM #2: ELEV. 739.84 STA. 18+72.42, 43.63' LEFT
I.P. & CAP SET IN CONCRETE



Sag
L = 100.00'
L1 = 50.00'
L2 = 50.00'
G1 = 0.43%
G2 = 0.88%

STA. 19+44 BILLTOWN RD. =
STA. 50+00 LOVERS LANE

Crest
L = 225.00'
L1 = 112.50'
L2 = 112.50'
G1 = 0.88%
G2 = -0.99%
NPSD = 690.59'

Sag
L = 325.00'
L1 = 162.50'
L2 = 162.50'
G1 = -0.99%
G2 = 0.64%

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DONVEASUM-LOVERS\0805APR3.DGN
 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

Com	=	514
Emb	=	494
Dt. Lt.	=	16

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

740.1	739.9	739.7	739.5	739.3
740.48	740.29	740.09	739.89	739.71
21+20	21+40	21+60	21+80	22+00

STA. 16+00 TO STA. 22+00

DITCH CONSTRUCTION LT.					
STATION	SIZE - SHAPE	LINING			QUANTITY
		TYPE	T=	D=	
22+00 - 22+30	SURF. 'V' DT.	ECB	-	1'	27 SY
24+71 - 25+00	SPCL. RDWY.	SOD	-	1'	-
25+40 - 25+60	SPCL. RDWY.	SOD	-	1'	-

LT. STA. 23+65 @ 0° SK.
CONST. 2 L.F. OF 7' F.B.
INLET DITCH W/ SOD

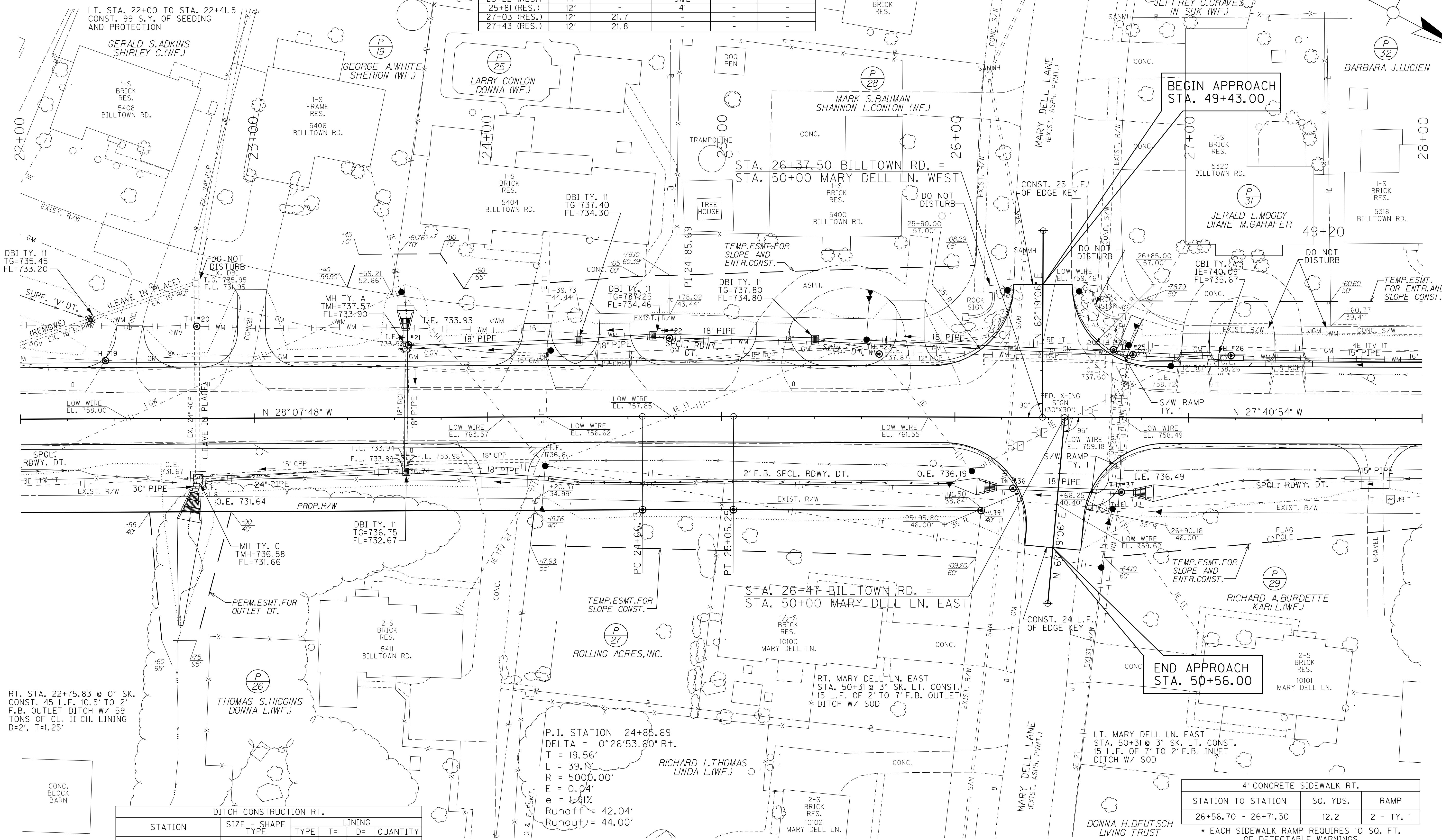
LT. STA. 22+52.5 TO STA. 28+00
CONST. 608 S.Y. OF SODDING

CONSTRUCT ENTRANCE LT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
22+47 (RES.)	12'	27.6	-	-	-
22+99 (RES.)	12'	47.6	-	-	-
24+22 (RES.)	12'	27.5	-	-	-
24+55 (RES.)	12'	27.5	-	-	-
25+22 (RES.)	14'	-	31.2	-	-
25+81 (RES.)	12'	-	41	-	-
27+03 (RES.)	12'	21.7	-	-	-
27+43 (RES.)	12'	21.8	-	-	-

4' CONCRETE SIDEWALK LT.		
STATION TO STATION	SO. YDS.	RAMP
26+68.55 - 26+80.10	10	1 - TY. 1

• EACH SIDEWALK RAMP REQUIRES 10 SQ. FT. OF DETECTABLE WARNINGS

STD. CURB & GUTTER MOD. LT.	
STATION TO STATION	LINEAR FEET
26+83 - 26+93	10
27+24.20 - 27+33	8.8
27+53 - 28+00	47



RT. STA. 22+75.83 @ 0° SK.
CONST. 45 L.F. 10.5' TO 2'
F.B. OUTLET DITCH W/ 59
TONS OF CL. II CH. LINING
D=2', T=1.25'

DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE	LINING			QUANTITY
		TYPE	T=	D=	
22+00 - 22+20	SPCL. RDWY.	SOD	-	1'	-
24+25.90 - 26+00	2' F.B. SPCL.	SOD	-	1'	-
27+00 - 27+67	SPCL. RDWY.	SOD	-	1'	-
27+92 - 28+00	SPCL. RDWY.	SOD	-	1'	-

P.I. STATION 24+85.69
DELTA = 0°26'53.60" RT.
T = 19.56'
L = 39.11'
R = 5000.00'
E = 0.04'
e = 1.81%
Runoff = 42.04'
Runout = 44.00'

CONSTRUCT ENTRANCE RT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
24+07 (RES.)	20'	44.1	-	-	-
27+80 (RES.)	12'	-	-	29	25 - 15'

RT. STA. 22+00 TO STA. 28+00
CONST. 1379 S.Y. OF SODDING

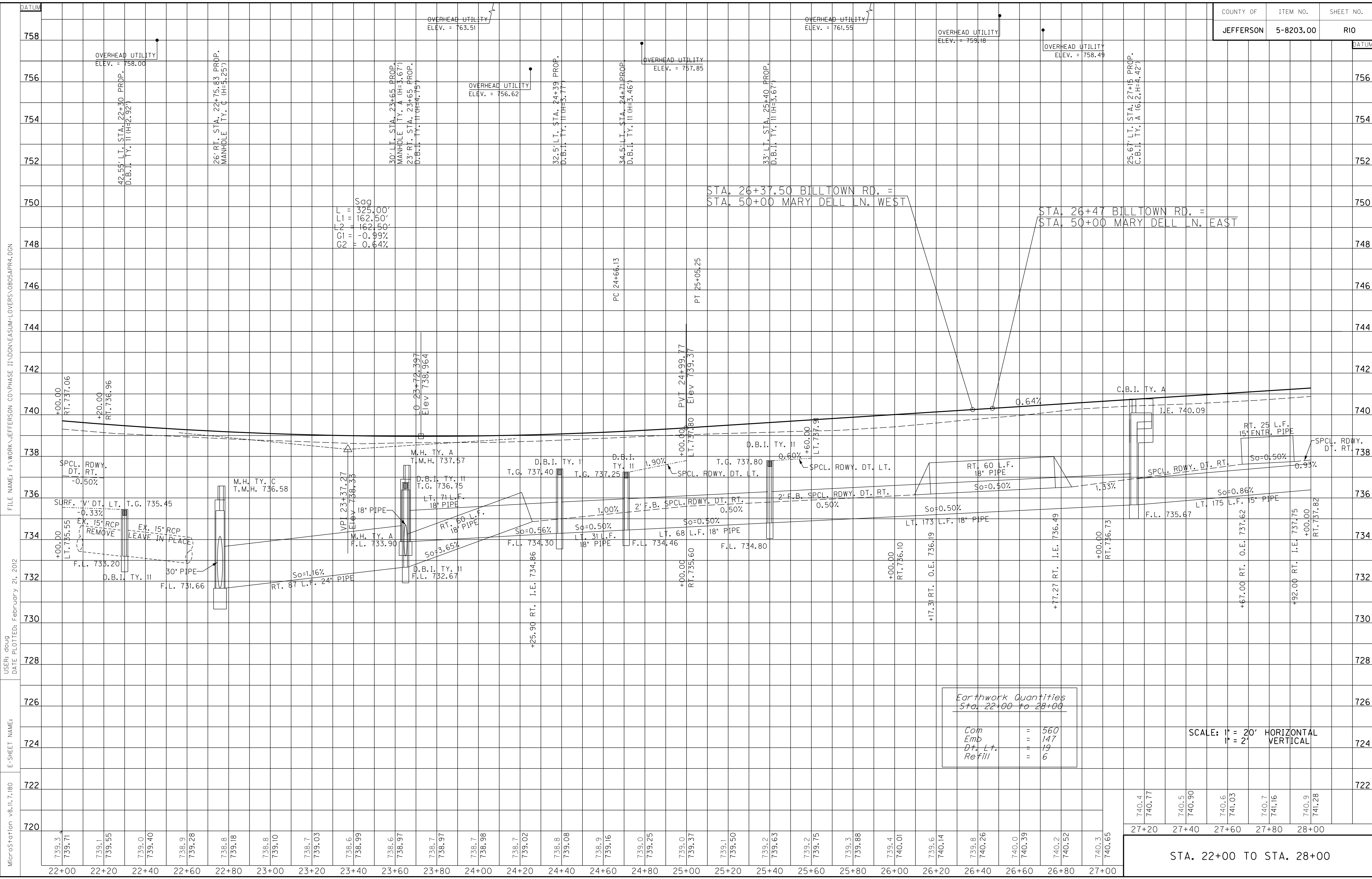
4' CONCRETE SIDEWALK RT.		
STATION TO STATION	SO. YDS.	RAMP
26+56.70 - 26+71.30	12.2	2 - TY. 1

• EACH SIDEWALK RAMP REQUIRES 10 SQ. FT. OF DETECTABLE WARNINGS



STA. 22+00 TO STA. 28+00

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EA\SUM-LOVERS\0805APL4.DGN
 USER: Jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



Sag
 L = 325.00'
 N = 162.50'
 G = 0.99%
 C = 0.64%

STA. 26+37.50 BILLTOWN RD. =
 STA. 50+00 MARY DELL LN. WEST

STA. 26+47 BILLTOWN RD. =
 STA. 50+00 MARY DELL LN. EAST

Com	=	560
Emb	=	147
Dt. Lt.	=	19
Refill	=	6

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

STA. 22+00 TO STA. 28+00

FILE NAME: F:\WORK\JEFFERSON\CO\PHASE II\DON\EA\SUM-LOVERS\0805APR4.DGN
 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

STD. CURB & GUTTER MOD. LT.	
STATION TO STATION	LINEAR FEET
28+00 - 28+09.50	9.5
28+44.40 - 28+89.80	45.4
29+01.10 - 29+36.90	35.8
29+56.90 - 30+07.90	51
30+27.90 - 30+75.90	48
30+95.90 - 30+97.90	2
31+17.90 - 32+00.80	82.9
32+12.10 - 32+14.90	2.8

LT. STA. 28+00 TO STA. 33+25
CONST. 738 S.Y. OF SODDING

CONSTRUCT ENTRANCE LT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
28+27 (RES.)	27'	44.1	-	-	-
29+47 (RES.)	12'	22.2	-	-	-
30+18 (RES.)	12'	25.7	-	-	-
30+86 (RES.)	12'	26.4	-	-	-
31+08 (RES.)	12'	28.4	-	-	-
32+25 (RES.)	12'	14.0	-	-	-
32+49 (RES.)	20'	16.6	21.9	-	-

DITCH CONSTRUCTION LT.						
STATION	SIZE - SHAPE TYPE	LINING			QUANTITY	
		TYPE	T=	D=		
32+70.90 - 33+24	SPCL. RDWY.	SOD	-	1'	-	

4" CONCRETE SIDEWALK LT.		
STATION TO STATION	SQ. YDS.	RAMP
28+87 - 28+97	3.9	-

P.I. STATION 35+02.71
DELTA = 0°57'32.88" Lt.
T = 167.40'
L = 334.80'
R = 2000.00'
E = 0.70'
e = N/A

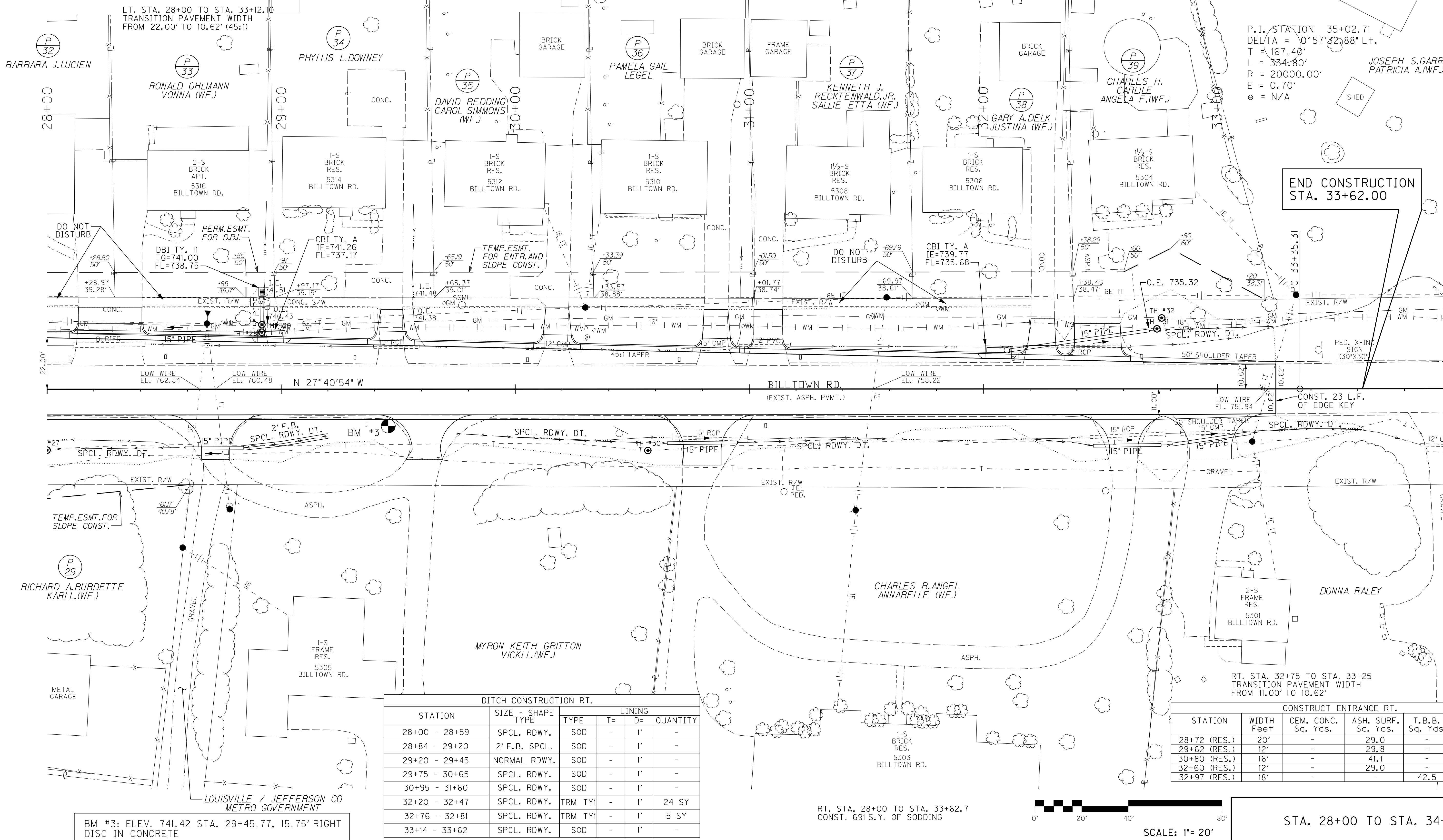
END CONSTRUCTION
STA. 33+62.00

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM-LOVERS\0805APLS.DGN

USER: Jim
DATE PLOTTED: February 21, 2012

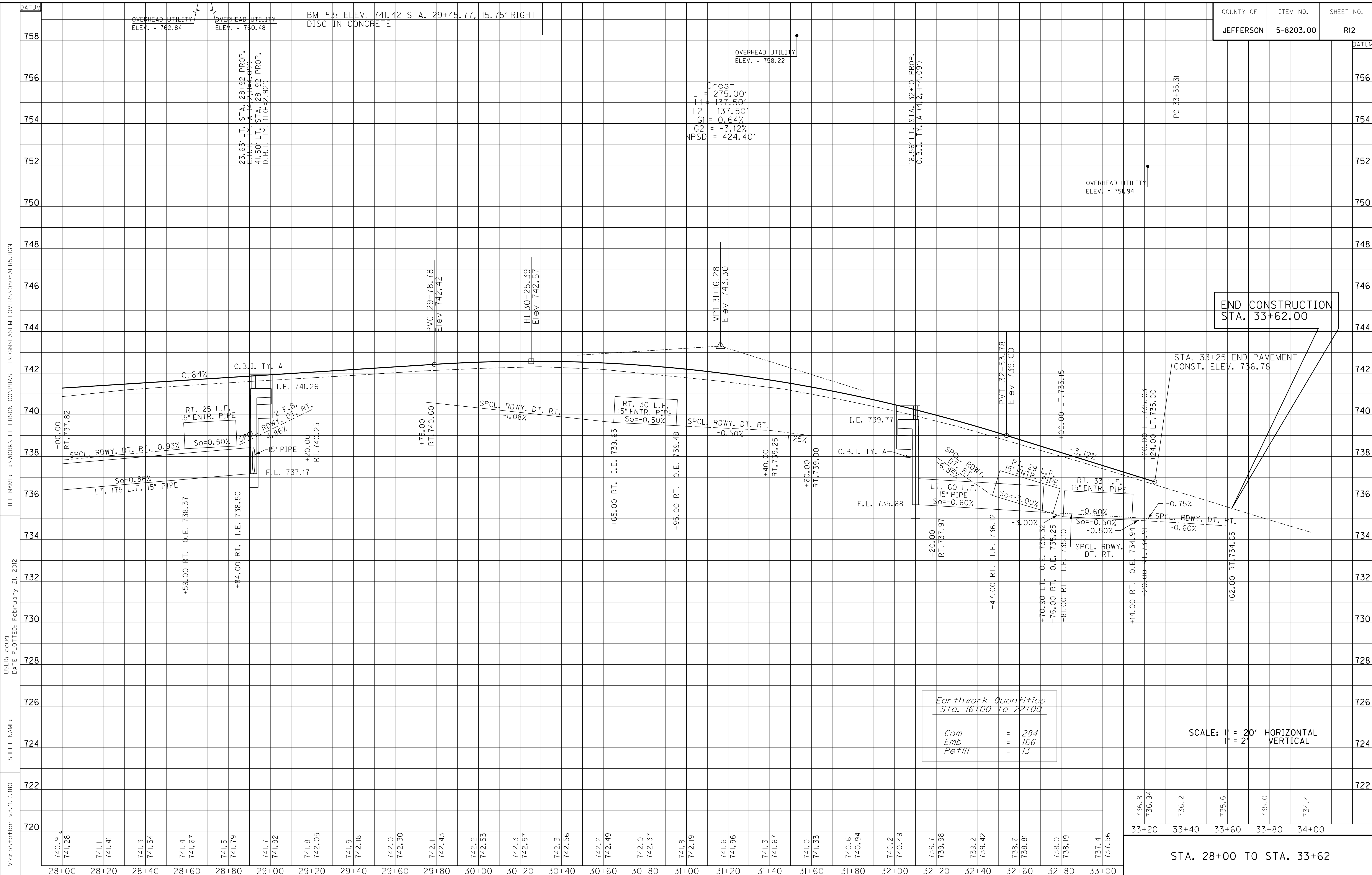
E-SHEET NAME:

MicroStation v8.11.7.180



DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE TYPE	TYPE	T=	D=	QUANTITY
28+00 - 28+59	SPCL. RDWY.	SOD	-	1'	-
28+84 - 29+20	2' F.B. SPCL.	SOD	-	1'	-
29+20 - 29+45	NORMAL RDWY.	SOD	-	1'	-
29+75 - 30+65	SPCL. RDWY.	SOD	-	1'	-
30+95 - 31+60	SPCL. RDWY.	SOD	-	1'	-
32+20 - 32+47	SPCL. RDWY.	TRM TYI	-	1'	24 SY
32+76 - 32+81	SPCL. RDWY.	TRM TYI	-	1'	5 SY
33+14 - 33+62	SPCL. RDWY.	SOD	-	1'	-

CONSTRUCT ENTRANCE RT.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
28+72 (RES.)	20'	-	29.0	-	25 - 15"
29+62 (RES.)	12'	-	29.8	-	-
30+80 (RES.)	16'	-	41.1	-	30 - 15"
32+60 (RES.)	12'	-	29.0	-	29 - 15"
32+97 (RES.)	18'	-	-	42.5	33 - 15"



FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EA\SUM-LOWERS\0805APRS.DGN
 USER: ddog
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

**END CONSTRUCTION
STA. 33+62.00**

STA. 33+25 END PAVEMENT
CONST. ELEV. 736.78

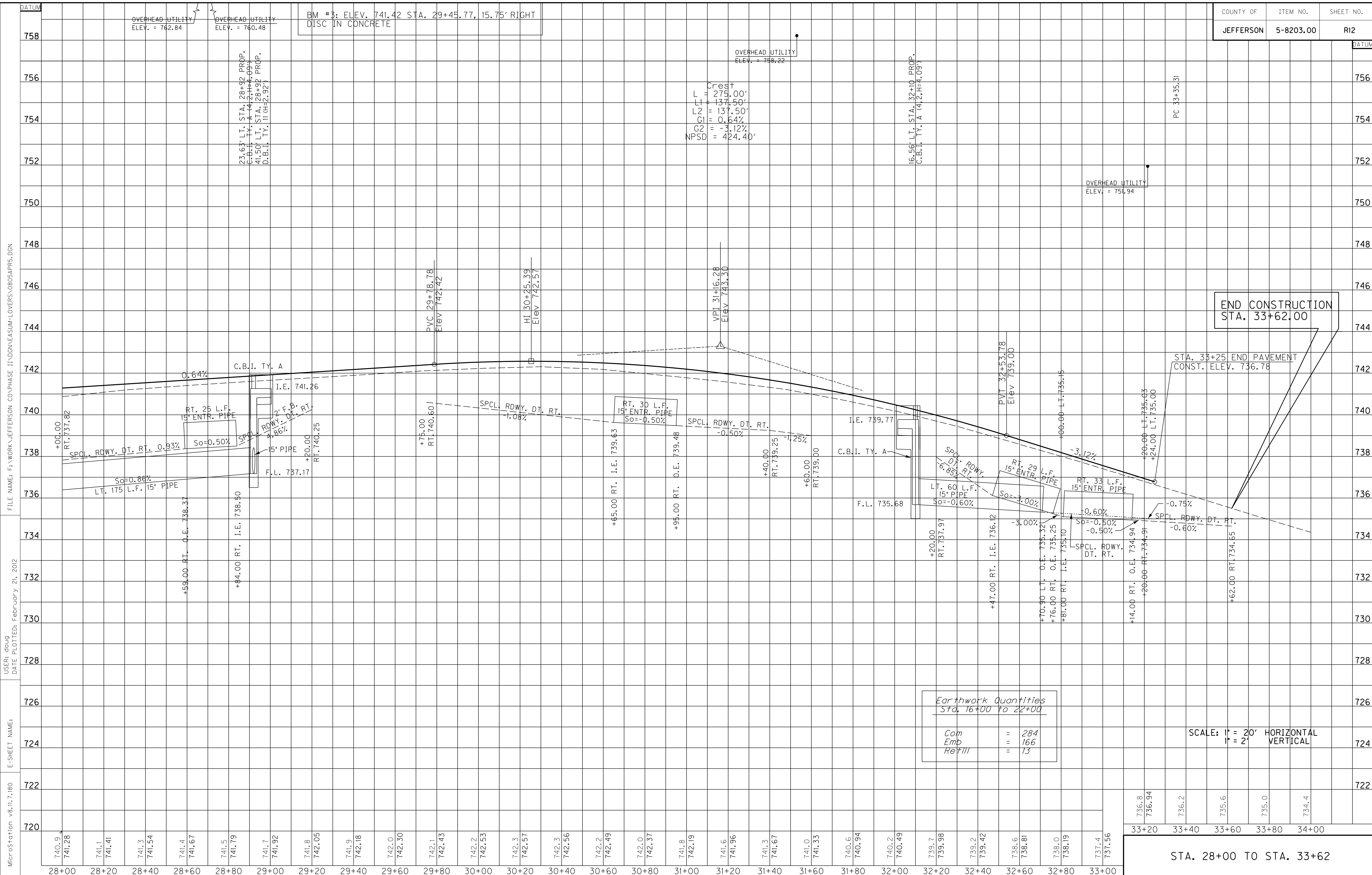
*Earthwork Quantities
Sta. 16+00 to 22+00*

Com	=	284
Emb	=	166
ReFill	=	13

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

STA. 28+00 TO STA. 33+62

736.8	736.2	735.6	735.0	734.4
33+20	33+40	33+60	33+80	34+00

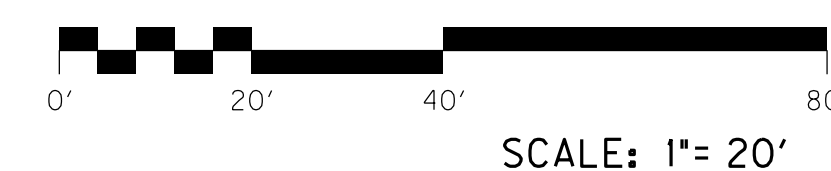


CONSTRUCT ENTRANCE LT.				
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.
50+88.5 (RES.)	12'	-	26.9	-

DITCH CONSTRUCTION LT.					
STATION	SIZE - SHAPE TYPE	TYPE	LINING		
			T=	D=	QUANTITY
50+57.08 - 50+78.23	SPCL. RDWY.	SOD	-	1'	-
50+98.84 - 51+40	SPCL. RDWY.	SOD	-	1'	-

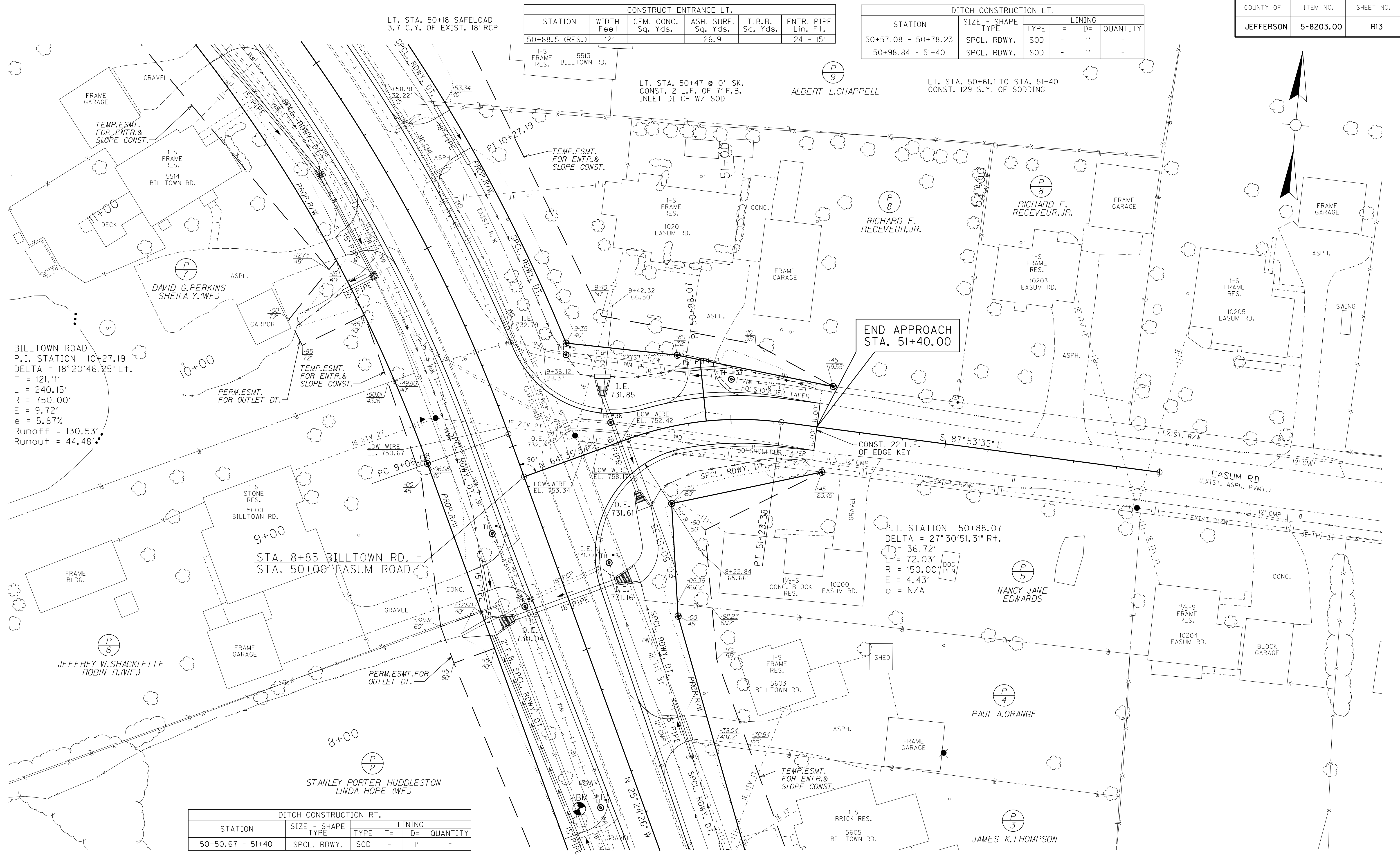
DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE TYPE	TYPE	LINING		
			T=	D=	QUANTITY
50+50.67 - 51+40	SPCL. RDWY.	SOD	-	1'	-

BM #1: ELEV. 732.66 M.L. STA. 7+31.78, 28.50' LEFT I.P. & CAP SET IN CONCRETE



EASUM ROAD
STA. 50+00 TO STA. 51+40

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EASUM-LOVERS\APPR\EASUMRPL.DGN
 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

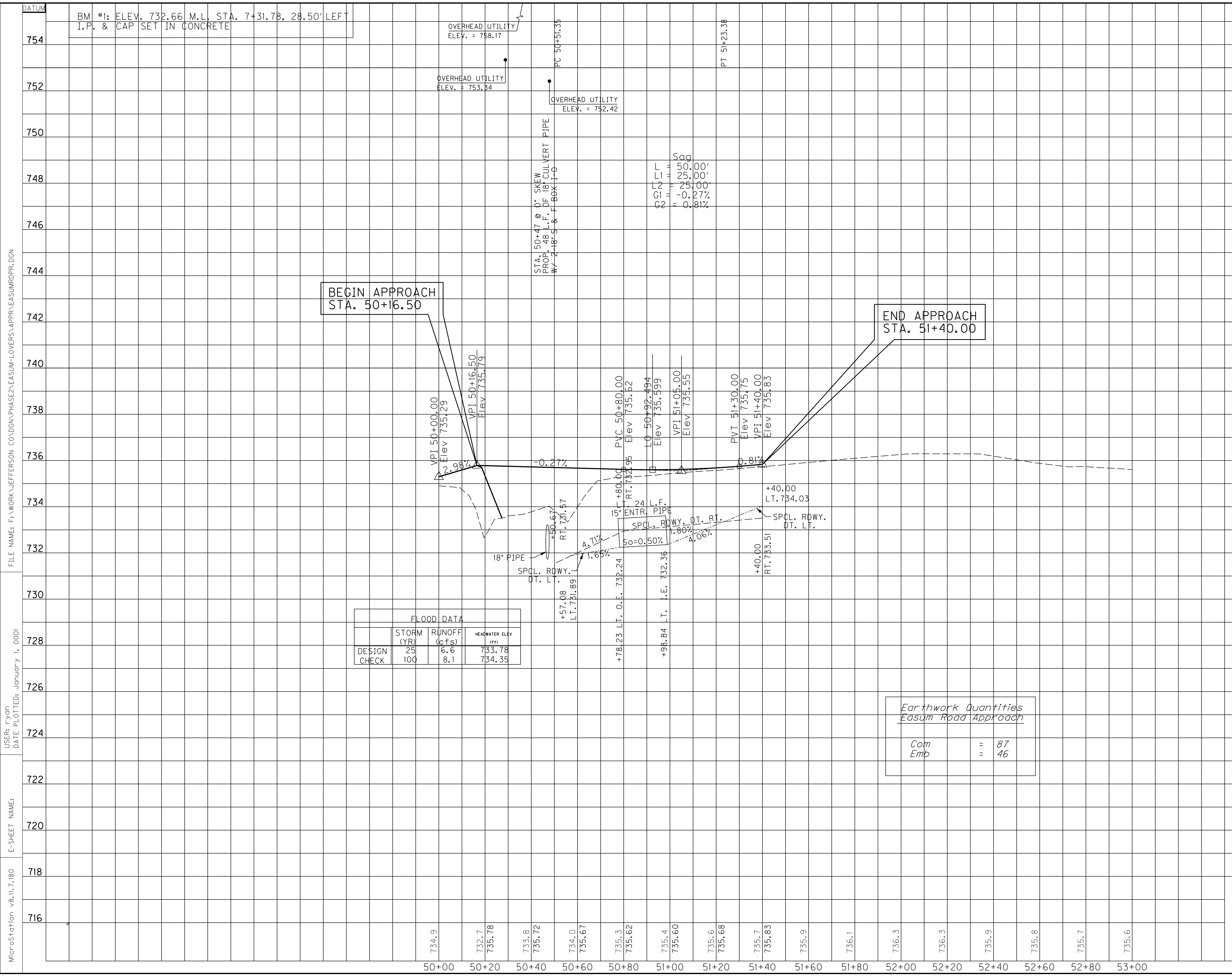


BILLTOWN ROAD
P.I. STATION 10+27.19
DELTA = 18°20'46.25" L+
T = 121.11'
L = 240.15'
R = 750.00'
E = 9.72'
e = 5.87%
Runoff = 130.53'
Runout = 44.48'

END APPROACH
STA. 51+40.00

P.I. STATION 50+88.07
DELTA = 27°30'51.31" R+
T = 36.72'
L = 72.03'
R = 150.00'
E = 4.43'
e = N/A

RT. STA. 50+75.4 TO STA. 51+40
CONST. 78 S.Y. OF SODDING



BEGIN APPROACH
STA. 50+16.50

END APPROACH
STA. 51+40.00

FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	6.6	733.78
CHECK	100	8.1	734.35

Earthwork Quantities Easum Road Approach		
Com	=	87
Emb	=	46

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

EASUM ROAD
STA. 50+16.50 TO STA. 51+40

MicroStation v8.11.7.180
 E-SHEET NAME:
 DATE PLOTTED: January 1, 2001
 USER: ryan
 FILE NAME: F:\WORK\JEFFERSON\CO\DDN\PHASE2\EASUM-LOWERS\APPR\EASUMDRR.DGN

DATUM
754
752
750
748
746
744
742
740
738
736
734
732
730
728
726
724
722
720
718
716

BM #1: ELEV. 732.66 M.L. STA. 7+31.78, 28.50' LEFT
I.P. & CAP SET IN CONCRETE

OVERHEAD UTILITY
ELEV. = 758.17
OVERHEAD UTILITY
ELEV. = 753.84
OVERHEAD UTILITY
ELEV. = 752.42

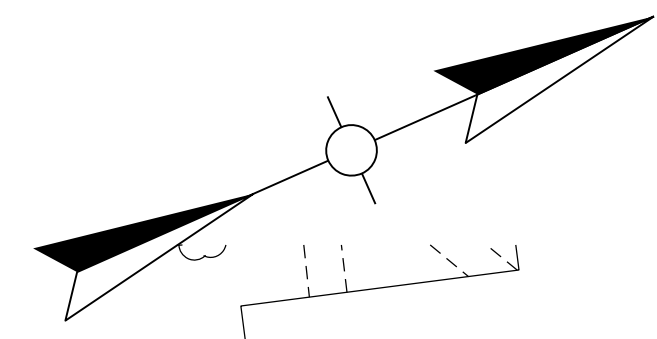
PC 50+51.35
PT 51+23.38
STA. 50+47 @ 0° SKEW
PROP. 48 L.F. OF 18" CULVERT PIPE
W/ 2 18" S & F BOX I-O

50.00'
25.00'
25.00'
0.27%
0.81%

VPI 50+00.00 Elev 735.129
VPI 50+16.50 Elev 735.79
PVC 50+80.00 Elev 735.62
LO 50+92.494 Elev 735.599
VPI 51+05.00 Elev 735.55
PVT 51+30.00 Elev 735.75
VPI 51+40.00 Elev 735.83
ENTR. PIPE
SPCL. RDWY. DT. RT.
SPCL. RDWY. DT. LT.
18" PIPE
SPCL. RDWY. DT. LT.
+57.08 LT. 731.89
+78.23 LT. O.E. 732.24
+98.84 LT. I.E. 732.36
+40.00 LT. 734.03
+40.00 RT. 733.51
A. 1%
S_o = 0.50%
1.65%
1.80%
4.06%

50+00 50+20 50+40 50+60 50+80 51+00 51+20 51+40 51+60 51+80 52+00 52+20 52+40 52+60 52+80 53+00

DATUM
752
750
748
746
744
742
740
738
736
734
732
730
728
726
724
722
720
718
716



CONSTRUCT ENTRANCE LT. FRONTAGE RD.					
STATION	WIDTH Feet	CEM. CONC. Sq. Yds.	ASH. SURF. Sq. Yds.	T.B.B. Sq. Yds.	ENTR. PIPE Lin. Ft.
10+36.35 (RES.)	10'	23.5	-	-	-
10+64.23 (RES.)	10'	28.8	-	-	-
11+59.49 (RES.)	20'	47.3	-	-	-
12+94.68 (RES.)	12'	13.5	-	-	-

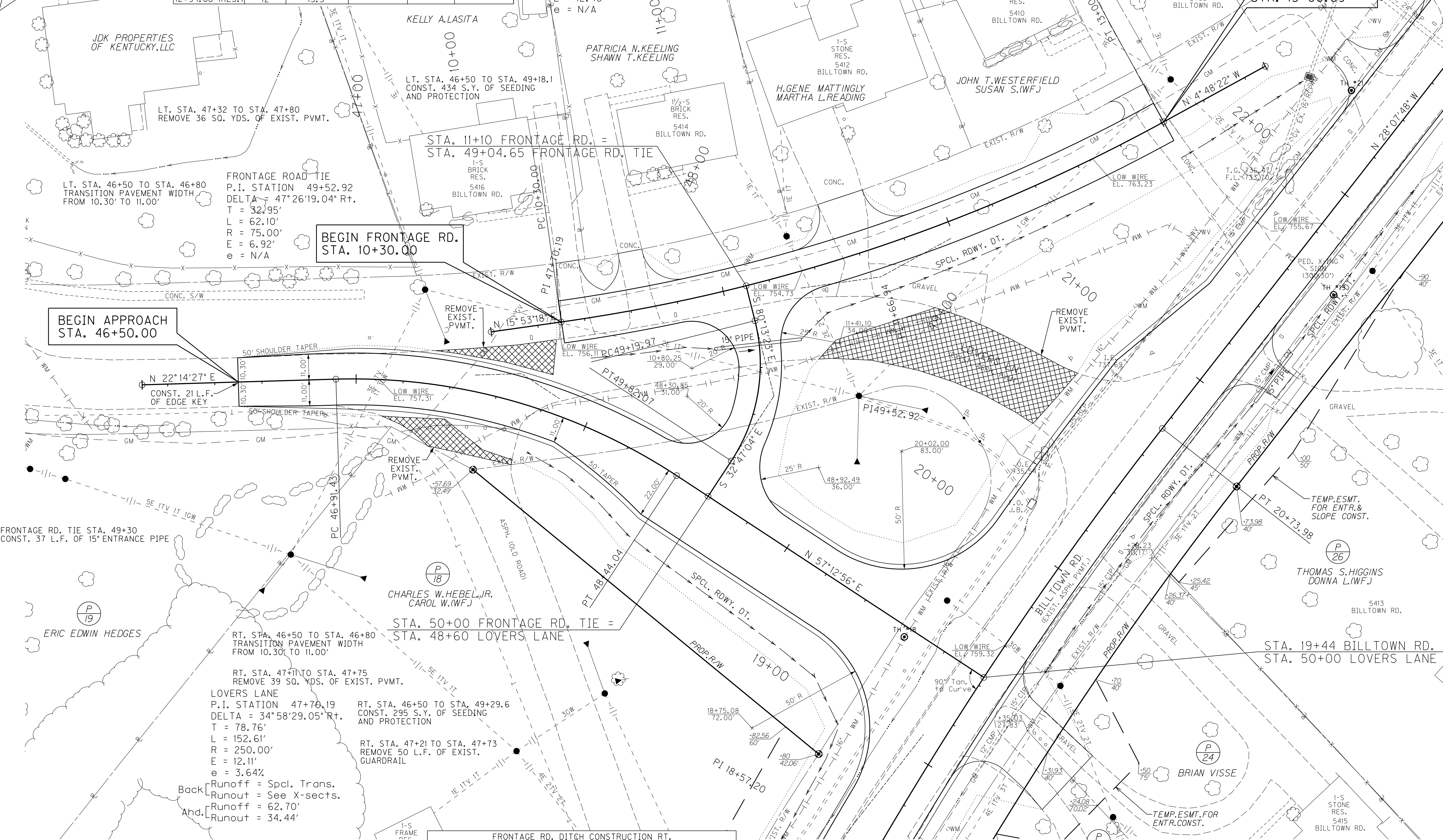
FRONTAGE ROAD
P.I. STATION 11+66.94
DELTA = 20°41'39.94" Lt.
T = 136.94'
L = 270.89'
R = 750.00'
E = 12.40'
e = N/A

LT. FRONTAGE ROAD
STA. 10+29.2 TO STA. 13+03.5
CONST. 128 S.Y. OF SODDING

LT. STA. 48+67 TO STA. 49+62
REMOVE 252 SQ. YDS. OF EXIST. PVMT.

GERALD S. ADKINS
SHIRLEY C. (W.F.)

END FRONTAGE RD.
STA. 13+00.89



BEGIN APPROACH
STA. 46+50.00

BEGIN FRONTAGE RD.
STA. 10+30.00

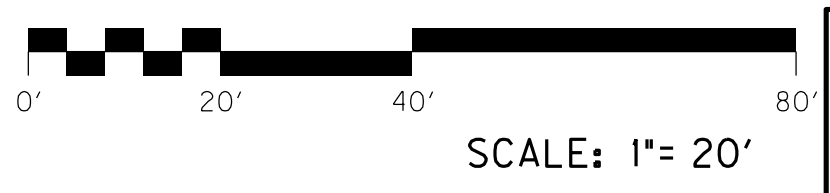
STA. 50+00 FRONTAGE RD. TIE =
STA. 48+60 LOVERS LANE

STA. 19+44 BILLTOWN RD. =
STA. 50+00 LOVERS LANE

LOVERS LN. DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE TYPE	LINING		QUANTITY	
		TYPE	D=		
47+80 - 49+60	SPCL. RDWY.	ECB	1'	160 SY	

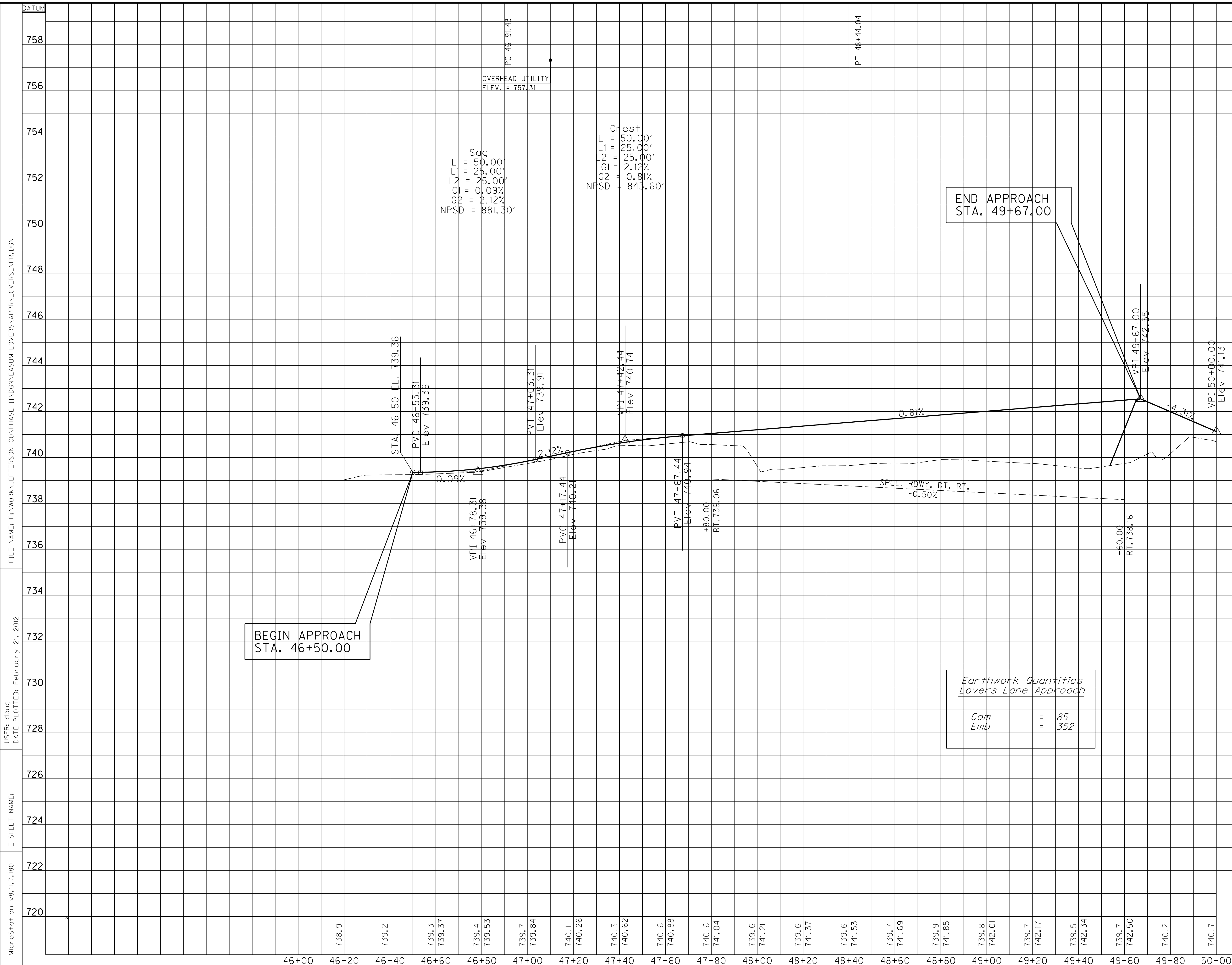
FRONTAGE RD. DITCH CONSTRUCTION RT.					
STATION	SIZE - SHAPE TYPE	LINING		QUANTITY	
		TYPE	D=		
10+40 - 10+91.08	SPCL. RDWY.	ECB	1'	46 SY	
11+26.56 - 12+60	SPCL. RDWY.	ECB	1'	119 SY	
12+60 - 13+00	NORMAL RDWY.	ECB	1'	36 SY	

RT. FRONTAGE ROAD
STA. 11+17.6 TO STA. 13+35.8
CONST. 447 S.Y. OF SEEDING
AND PROTECTION



LOVERS LANE
STA. 46+50 TO STA. 50+00

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EASUM-LOVERS\APPR\LOVERS\NPL.DGN
USER: doug
DATE PLOTTED: February 21, 2012
E-SHEET NAME:
MicroStation v8.11.7.180



BEGIN APPROACH
STA. 46+50.00

END APPROACH
STA. 49+67.00

Earthwork Quantities Lovers Lane Approach	
Com	= 85
Emb	= 352

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

LOVERS LANE
STA. 46+50 TO STA. 49+67

MicroStation v8.11.7.180
 E-SHEET NAME:
 USER: doug
 DATE PLOTTED: February 21, 2012
 FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DONVEASUM-LOVERS APPR\LOVERS\NPR.DGN

DATUM

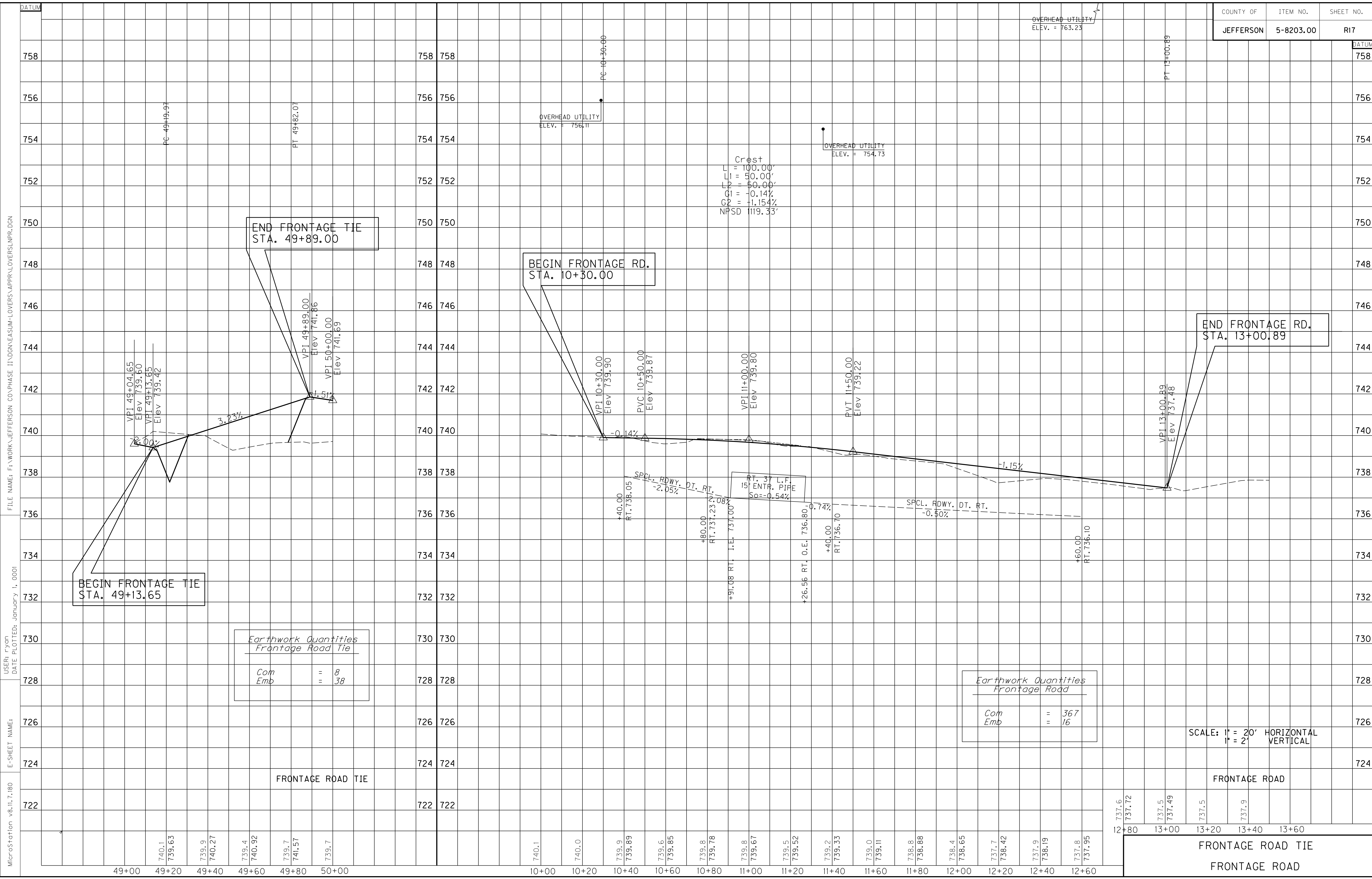
DATUM

OVERHEAD UTILITY
ELEV. = 763.23

OVERHEAD UTILITY
ELEV. = 756.11

OVERHEAD UTILITY
ELEV. = 754.73

Crest
L = 100.00'
L1 = 50.00'
L2 = 50.00'
G1 = -0.14%
G2 = +1.154%
NPSD 1119.33'



END FRONTAGE TIE
STA. 49+89.00

BEGIN FRONTAGE RD.
STA. 10+30.00

END FRONTAGE RD.
STA. 13+00.89

BEGIN FRONTAGE TIE
STA. 49+13.65

Earthwork Quantities Frontage Road Tie	
Com	= 8
Emb	= 38

Earthwork Quantities Frontage Road	
Com	= 367
Emb	= 16

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

FRONTAGE ROAD TIE

FRONTAGE ROAD

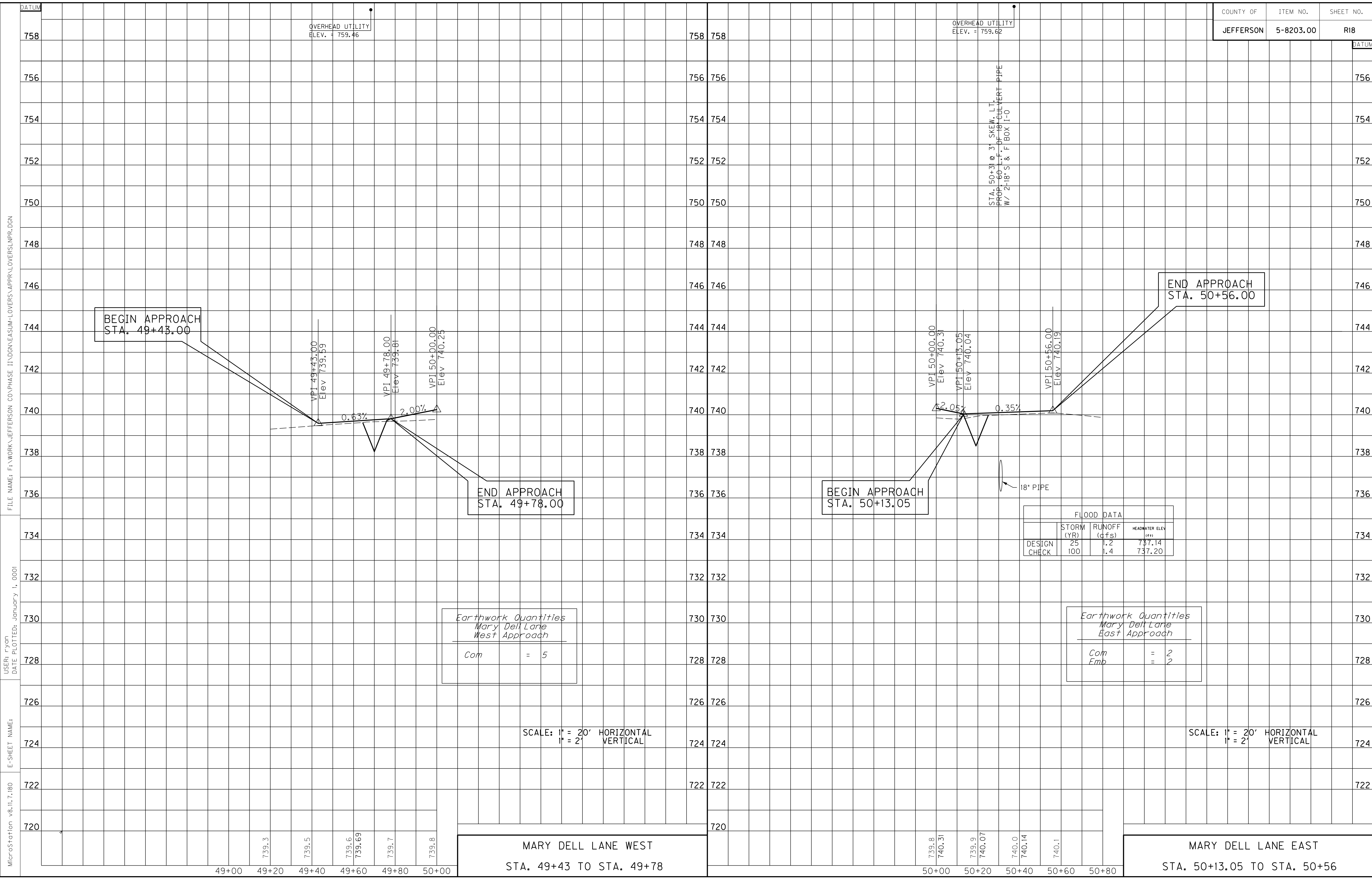
FRONTAGE ROAD TIE

FRONTAGE ROAD

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM-LOVERS\APPR\LOVERS\NPR.DGN
 USER: ryan
 DATE PLOTTED: January 1, 2001
 E-SHEET NAME:
 MicroStation v8.11.7.180

DATUM

DATUM



BEGIN APPROACH
STA. 49+43.00

END APPROACH
STA. 49+78.00

BEGIN APPROACH
STA. 50+13.05

END APPROACH
STA. 50+56.00

OVERHEAD UTILITY
ELEV. = 759.46

OVERHEAD UTILITY
ELEV. = 759.62

STA. 50+31 @ 3' SKEW. L.T.
PROP. 60'-L.T. OF 18" CULVERT PIPE
W/ 2'-18" S & F BOX 1-0

FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	1.2	737.14
CHECK	100	1.4	737.20

Earthwork Quantities
Mary Dell Lane
West Approach

Com = 5

Earthwork Quantities
Mary Dell Lane
East Approach

Com = 2
Emb = 2

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

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

MARY DELL LANE WEST
STA. 49+43 TO STA. 49+78

MARY DELL LANE EAST
STA. 50+13.05 TO STA. 50+56

FILE NAME: F:\WORK\JEFFERSON\CO-PHASE II\DON\EA\SUM-LOVERS\APPR\LOVERS\NPR.DGN
 USER: ryan
 DATE PLOTTED: January 1, 2001
 E-SHEET NAME:
 MicroStation v8.11.7.180

DATUM
758
756
754
752
750
748
746
744
742
740
738
736
734
732
730
728
726
724
722
720

758 758
756 756
754 754
752 752
750 750
748 748
746 746
744 744
742 742
740 740
738 738
736 736
734 734
732 732
730 730
728 728
726 726
724 724
722 722
720 720

DATUM
758
756
754
752
750
748
746
744
742
740
738
736
734
732
730
728
726
724
722
720

49+00 49+20 49+40 49+60 49+80 50+00

50+00 50+20 50+40 50+60 50+80

QUALITY LEVEL "A" DATA SUMMARY

TEST HOLE #	UTILITY (TYPE & SIZE)	NORTHING (Y)	EASTING (X)	GROUND ELEVATION (ft)	TOP UTILITY ELEVATION (ft)	DEPTH (ft)	STATION	OFFSET (ft)	SURFACE TYPE	REMARKS
1	WATER LINE	3947200.74	4973968.85	733.17	728.77	4.40	7+28.41	19.17 LT.	EARTH	16 IN. STEEL
2	WATER LINE	3947287.83	4973926.74	732.25	727.15	5.10	8+25.14	19.85 LT.	EARTH	16 IN. STEEL
3	GAS LINE	3947306.23	4973965.80	732.83	730.23	2.60	8+25.00	23.33 RT.	EARTH	6 IN.
4	WATER LINE	3947322.46	4973906.65	732.60	726.70	5.90	8+65.03	23.13 LT.	EARTH	16 IN. STEEL
5	WATER LINE	3947408.34	4973932.98	734.65	733.65	1.00	9+30.11	37.90 RT.	EARTH	8 IN. STEEL
6	COMMUNICATIONS DUCT	3947468.50	4973823.37	733.63	731.23	2.40	10+37.65	24.57 LT.	EARTH	1 IN.
7	COMMUNICATIONS DUCT	3947531.21	4973823.11	735.03	732.38	2.65	10+88.02	13.32 RT.	EARTH	1 IN.
7A	GAS LINE	3947536.02	4973828.87	734.14	732.44	1.70	10+88.09	20.82 RT.	EARTH	6 IN.
8	COMMUNICATIONS DUCT	3947609.28	4973693.49	734.32	731.87	2.45	12+33.08	28.62 LT.	EARTH	
9	COMMUNICATIONS DUCT	3947735.11	4973571.29	736.52	733.47	3.05	14+08.48	29.86 LT.	EARTH	
10	GAS LINE	3947828.96	4973545.66	736.52	733.82	2.70	14+93.99	16.53 RT.	EARTH	6 IN.
11	GAS LINE	3947938.53	4973438.61	736.53	734.48	2.05	16+47.26	14.95 RT.	EARTH	6 IN.
12	COMMUNICATIONS DUCT	3947922.84	4973391.02	738.72	737.02	1.70	16+68.16	30.55 LT.	EARTH	
13	GAS LINE	3947999.51	4973378.80	738.16	734.64	3.52	17+33.30	11.11 RT.	EARTH	
14	GAS LINE	3948005.45	4973373.47	738.16	734.66	3.50	17+41.33	10.87 RT.	EARTH	
15	COMMUNICATIONS DUCT	3948041.42	4973288.09	739.83	737.53	2.30	18+22.14	33.44 LT.	EARTH	
16	GAS LINE	3948087.95	4973319.09	738.52	736.22	2.30	18+40.73	19.26 RT.	EARTH	
17	WATER LINE	3948137.57	4973215.60	739.86	735.36	4.50	19+39.90	37.59 LT.	EARTH	16 IN. STEEL
18	GAS LINE	3948362.83	4973156.64	737.92	734.07	3.85	21+63.36	22.37 RT.	EARTH	
19	GAS LINE	3948404.98	4973080.52	738.11	734.11	4.00	22+36.42	24.89 LT.	CONCRETE	
20	WATER LINE	3948432.64	4973049.23	737.01	730.81	6.20	22+75.56	39.44 LT.	EARTH	16 IN. STEEL
21	GAS LINE	3948516.56	4973013.84	734.72	730.57	4.15	23+66.26	31.09 LT.	EARTH	
22	WATER LINE	3948613.92	4972959.06	737.67	733.47	4.20	24+77.87	33.51 LT.	EARTH	16 IN. STEEL
23	WATER LINE	3948696.47	4972923.13	738.63	734.08	4.55	25+67.48	26.90 LT.	EARTH	16 IN. STEEL
24	GAS LINE	3948784.46	4972874.51	739.00			26+67.82	29.11 LT.	EARTH	
25	WATER LINE	3948792.64	4972774.77	738.82	734.62	4.20	26+76.16	27.10 LT.	EARTH	16 IN. STEEL
26	WATER LINE	3948829.99	4972853.28	740.04	736.04	4.00	27+18.16	26.72 LT.	EARTH	16 IN. STEEL
27	COMMUNICATIONS DUCT	3948926.95	4972861.99	739.63	736.83	2.80	27+99.98	26.03 RT.	EARTH	
28	WATER LINE	3948984.83	4972784.77	740.76	736.41	4.35	28+91.76	24.32 LT.	EARTH	16 IN. STEEL
29	GAS LINE	3948983.38	4972771.92	740.89	736.89	4.00	28+91.79	27.51 LT.	EARTH	
30	COMMUNICATIONS DUCT	3948983.38	4972771.92	740.84	738.49	2.35	30+56.69	26.27 RT.	EARTH	
31	WATER LINE	3949322.88	4972595.90	737.84	734.04	3.80	32+74.20	25.67 LT.	EARTH	16 IN. STEEL

QUALITY LEVEL "A" UTILITY OWNER(S):

Louisville Gas & Electric
820 West Broadway
Louisville, KY 40202
Greg Geiser: (502) 376-9510

Louisville Water Company
550 South Third Street
Louisville, KY 40202
Daniel Tegene: (502) 569-3649

AT&T KY
3719 Bardstown Road - 2nd floor
Louisville, KY 40218
Morgan Herndon: (502) 458-7312

Insight KY Partners
4701 Commerce Crossings Dr.
Louisville, KY 40229
Deno Barbour: (502) 664-7395

Metropolitan Sewer District
700 West Liberty Street
Louisville, KY 40202
David Givans: (502) 540-6129

Kentucky Data Link (KDL)
1132 Hull Street
Louisville, KY 40204
Bill Hales: (502) 550-3661

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

COORDINATE SYSTEM

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

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

The project Grid Factor is 0.999893733 and was obtained by using the average Grid Factors from the Primary Survey Control over the project area.

QUALITY LEVEL "A" DATA SUMMARY

FILE NAME: F:\WORK\0501\0501A\ADGN\0501A UTIL SUMM.DGN

USER: ryan
DATE PLOTTED: January 1, 0001

E-SHEET NAME:

MicroStation v8.11.7.180

QUALITY LEVEL "A" DATA SUMMARY

TEST HOLE #	UTILITY (TYPE & SIZE)	NORTHING (Y)	EASTING (X)	GROUND ELEVATION (ft)	TOP UTILITY ELEVATION (ft)	DEPTH (ft)	STATION	OFFSET (ft)	SURFACE TYPE	REMARKS
32	GAS LINE	3949322.53	4972590.77	738.22	735.02	3.20	32+76.25	30.33 LT.	EARTH	
	EASUM ROAD									
33	COMMUNICATIONS DUCT	3947379.04	4973956.37	734.84	732.74	2.10	50+46.05	9.82 LT.	EARTH	
34	WATER LINE	3947404.38	4974010.51	733.30	729.60	3.70	51+00.73	18.52 LT.	EARTH	8 IN. STEEL
	FRONTAGE ROAD									
35	GAS LINE	3948271.30	4973057.32	737.70	734.90	2.80	12+45.36	5.64 LT.	EARTH	2 IN. STEEL
	MARY DELL LANE EAST									
36	GAS LINE	3948773.95	4972947.20	739.12	735.72	3.40	50+32.22	19.36 RT.	EARTH	
37	WATER LINE	3948815.79	4972926.94	739.24	735.64	3.60	50+29.66	27.05 LT.	EARTH	6 IN. STEEL

FILE NAME: F:\WORK\0501\0501A\0501A.DGN\0501A UTIL SUMM.DGN

USER: Ryan
DATE PLOTTED: January 1, 0001


E-SHEET NAME:

MicroStation v8.11.7.180

QUALITY LEVEL "A" UTILITY OWNER(S):

Louisville Gas & Electric 820 West Broadway Louisville, KY 40202 Greg Geiser: (502) 376-9510	Insight KY Partners 4701 Commerce Crossings Dr. Louisville, KY 40229 Deno Barbour: (502) 664-7395
Louisville Water Company 550 South Third Street Louisville, KY 40202 Daniel Tegene: (502) 569-3649	Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40202 David Givans: (502) 540-6129
AT&T KY 3719 Bardstown Road - 2nd floor Louisville, KY 40218 Morgan Herndon: (502) 458-7312	Kentucky Data Link (KDL) 1132 Hull Street Louisville, KY 40204 Bill Hales: (502) 550-3661

BEFORE YOU DIG



CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

COORDINATE SYSTEM

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

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

The project Grid Factor is 0.999893733 and was obtained by using the average Grid Factors from the Primary Survey Control over the project area.

QUALITY LEVEL "A" DATA SUMMARY

RIGHT OF WAY SUMMARY

PARCEL NO.	OWNER(S)	TOTAL AREA OF TRACT	PERMANENT R/W ACQUIRED	EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER					SOURCE OF TITLE	REMARKS*	
				ACRES	SQ. FT.	PERMANENT	TEMPORARY	LEFT		RIGHT		ACRES	SQ. FT.		ACRES	SQ. FT.	YES	NO	C	R	F			S
								ACRES	SQ. FT.	ACRES	SQ. FT.													
1	STUART WIMSETT JOAN W. (WF.)	0.515	22,438		162		704					22,276			3		X					D.B. 8547 PG. 216		
2	STANLEY PORTER HUDDLESTON LINDA HOPE (WF.)	4.357		0.046	2,001	359	3,305	4.311					4.311		3		X					D.B. 9513 PG. 607		
3	JAMES K. THOMPSON		12,329		496		1,202					11,833			3		X					D.B. 8417 PG. 469		
4	PAUL A. ORANGE		13,801		868		921					12,933			3		X					D.B. 6077 PG. 991		
5	NANCY JANE EDWARDS		16,596		2,926		1,169					13,670			3		X					D.B. 7446 PG. 266		
6	JEFFREY W. SHACKLETTE ROBIN R. (WF.)	1.175		0.025	1,084		1,044	1.150					1.150		3		X					D.B. 8442 PG. 342		
7	DAVID G. PERKINS SHEILA Y. (WF.)	2.0		0.059	2,562	672	2,855	1.941					1.941		3		X					D.B. 8993 PG. 422		
8	RICHARD F. RECEVEUR, JR.		25,869		1,539		3,475					24,330			3		X					D.B. 5859 PG. 261		
9	ALBERT L. CHAPPELL		28,160		898		2,748					27,262			3		X					D.B. 8376 PG. 626		
10	DAVID A. KIDD ALICAN LOIS CORNETT (WF.)		33,965		1,164		1,940					32,801			3		X					D.B. 9658 PG. 622		
11	ELMER C. SANDERS ISABELLE (WF.)	0.7	29,999		621		1,635		29,378				29,378		3		X					D.B. 3849 PG. 256		
12	HANS PROBST, JR. CYNTHIA A. (WF.)		40,870		1,288		1,776					39,582			3		X					D.B. 6948 PG. 550		
13	INTERMEDIA PARTNERS OF KENTUCKY L.P.	1.343		0.029	1,252		6,682	1.314					1.314		3		X					D.B. 7035 PG. 128		
14	ANGELA SHEFFLER	1.066		0.032	1,409		1,625			1.034			1.034		3		X					D.B. 9142 PG. 150		
15	GRH PROPERTIES, LLC	6.83		0.027	1,174		1,555			6.80			6.80		3		X					D.B. 8574 PG. 5		
16	MICHAEL REID DONNA K. (WF.)	1.005					572	1.005					1.005		3		X					D.B. 5523 PG. 166		
17	ANGEL L. NAVARRO		27,448		1,595		1,167					25,853			3		X					D.B. 8362 PG. 71		
18	CHARLES W. HEBEL, JR. CAROL W. (WF.)	2.439		0.399	17,365		5,892	2.040					2.040		3		X					D.B. 7052 PG. 133 D.B. 7480 PG. 422 D.B. 8940 PG. 348		
19	GEORGE A. WHITE SHERION (WF.)		10,724				290		10,724				10,724		3		X					D.B. 7889 PG. 885		
20	NOT USED																							
21	WILLIAM A. COLEMAN JESSICA M. (WF.)		31,715		1,554		1,211					30,161			3		X					D.B. 9445 PG. 241		
22	MARY MARGARET MILLER ERENTAL	4.786		0.033	1,423		1,075			4.753			4.753		3		X					D.B. 9383 PG. 265		
23	THOMAS S. SEEBOLD		37,833		1,256		878					36,577			3		X					D.B. 9192 PG. 810		
24	BRIAN VISSE		39,026		1,015		1,041					38,011			3		X					D.B. 9617 PG. 587		
25	LARRY CONLON DONNA (WF.)		14,132				1,627		14,132				14,132		3		X					D.B. 4957 PG. 211 D.B. 5280 PG. 648		
26	THOMAS S. HIGGINS DONNA L. (WF.)	3.432		0.064	2,793	1,375	1,012			3.368			3.368		3		X					D.B. 6119 PG. 844 D.B. 9492 PG. 621		
27	ROLLING ACRES, INC.		17,658		559		3,381					17,099			3		X					D.B. 6108 PG. 779		
28	MARK S. BAUMAN SHANNON L. CONLON (WF.)		15,246				2,475		15,246				15,246		3		X					D.B. 7430 PG. 223		
29	RICHARD A. BURDETTE KARI L. (WF.)		24,094				1,911					24,094			3		X					D.B. 7225 PG. 233		
30	NOT USED																							

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

- ① BASIS FOR DETERMINATION OF AREA:
- a. DEED
 - b. P.V.A.
 - c. CALCULATED
 - d. OTHER (AREA ROLLED)

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

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

*INCLUDES HAZARDOUS WASTE
(UST - UNDERGROUND STORAGE TANKS)

RIGHT OF WAY SUMMARY SHEET

FILE NAME: F:\WORK\JEFFERSON\CO\PHASE II\DON\EA\SUM-LOVERS\0805ARWSUM.DGN

USER: Jim
DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

RIGHT OF WAY SUMMARY

PARCEL NO.	OWNER(S)		TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				SOURCE OF TITLE	REMARKS*
			ACRES	SQ. FT.	ACRES	SQ. FT.	PERMANENT SQ. FT.	TEMPORARY SQ. FT.	LEFT		RIGHT		ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
									ACRES	SQ. FT.	ACRES	SQ. FT.													
31	JERALD L. MOODY DIANE M. GAHAFAER	Ⓧ		11,402				788		11,402						3		X					D.B. 4519 PG. 122		
32	BARBARA J. LUCIEN	Ⓧ		8,998				726		8,998						3		X						D.B. 5568 PG. 103	
33	RONALD OHLMANN VONNA (WF.)	Ⓧ		8,999			131	605		8,999						3		X						D.B. 8977 PG. 553	
34	PHYLLIS L. DOWNEY	Ⓧ		9,000				745		9,000						3		X						D.B. 6930 PG. 975	
35	DAVID REDDING CAROL SIMMONS (WF.)	Ⓧ		9,002				754		9,002						3		X						D.B. 7207 PG. 867	
36	PAMELA GAIL LEGEL	Ⓧ		9,003				763		9,003						3		X						D.B. 6675 PG. 845	
37	KENNETH J. RECKTENWALD, JR. SALLIE ETTA (WF.)	Ⓧ		9,004				772		9,004						3		X						D.B. 8805 PG. 954	
38	GARY A. DELK JUSTINA (WF.)	Ⓧ		9,046				785		9,046						3		X						D.B. 4521 PG. 455	
39	CHARLES H. CARLILE ANGELA F. (WF.)	Ⓧ		9,123				1,013		9,123						3		X						D.B. 6661 PG. 679	

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DONVEASUM-LOVERS\0805ARWSUM.DGN

USER: Jim
DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

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

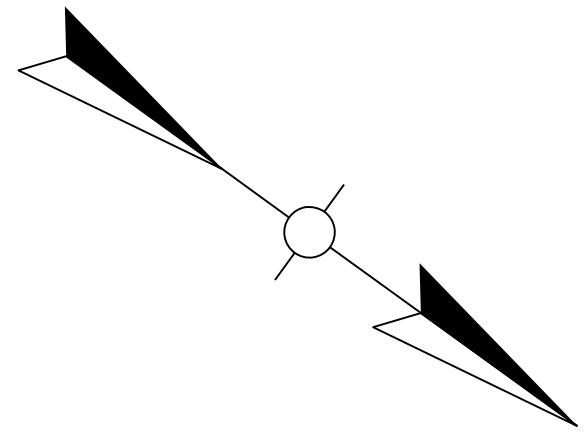
① BASIS FOR DETERMINATION OF AREA:
a. DEED
b. P.V.A.
c. CALCULATED
d. OTHER (AREA ROLLED)

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

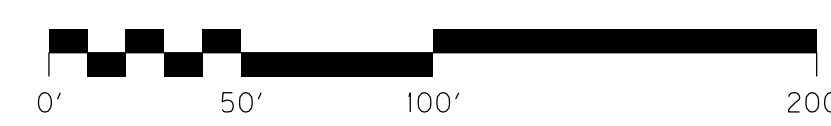
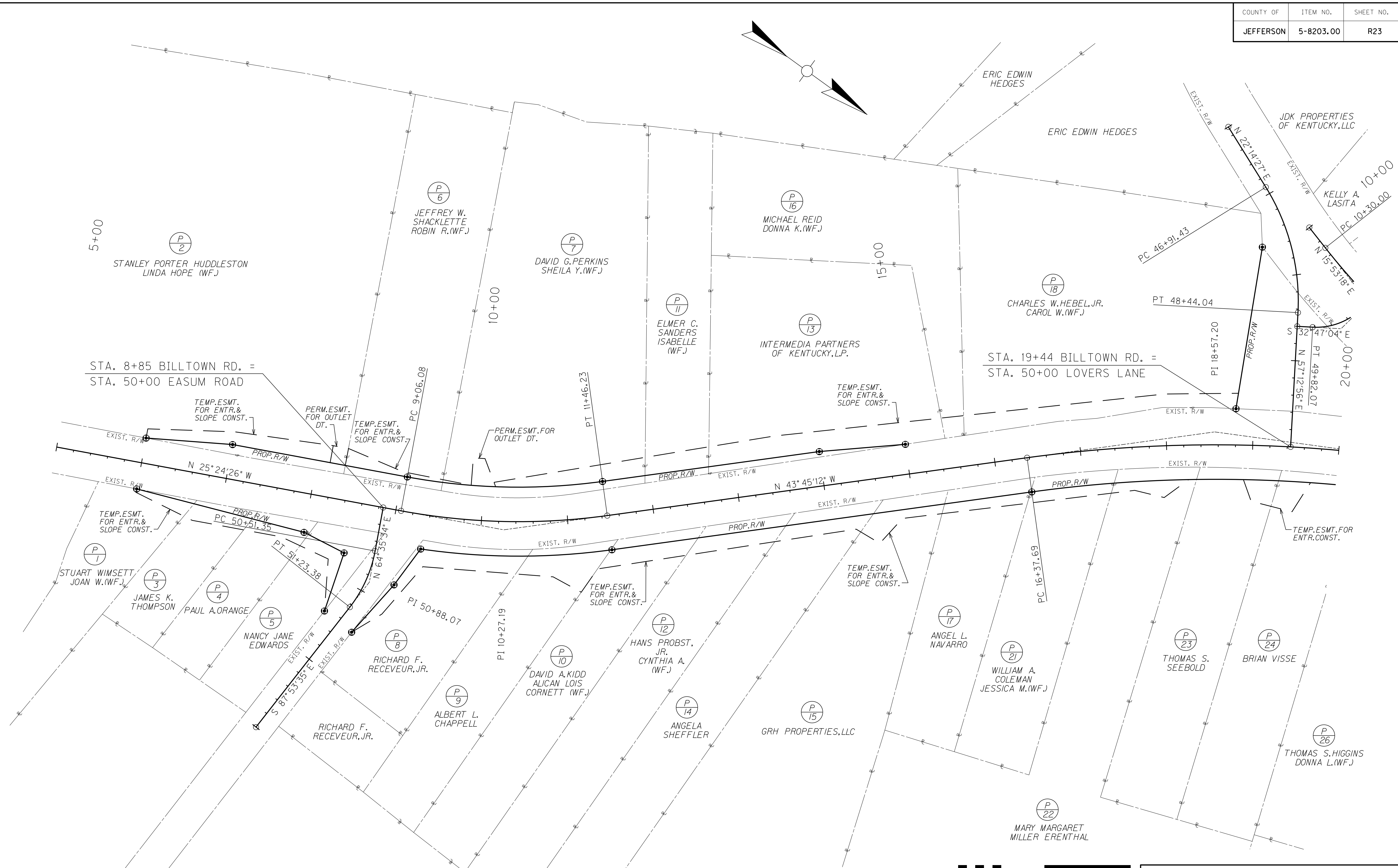
BUILDINGS ACQUIRED CODE
C - COMMERCIAL
R - RESIDENTIAL
F - FARM
S - STORAGE

*INCLUDES HAZARDOUS WASTE
(UST - UNDERGROUND STORAGE TANKS)

RIGHT OF WAY SUMMARY SHEET

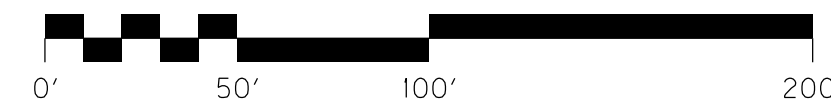
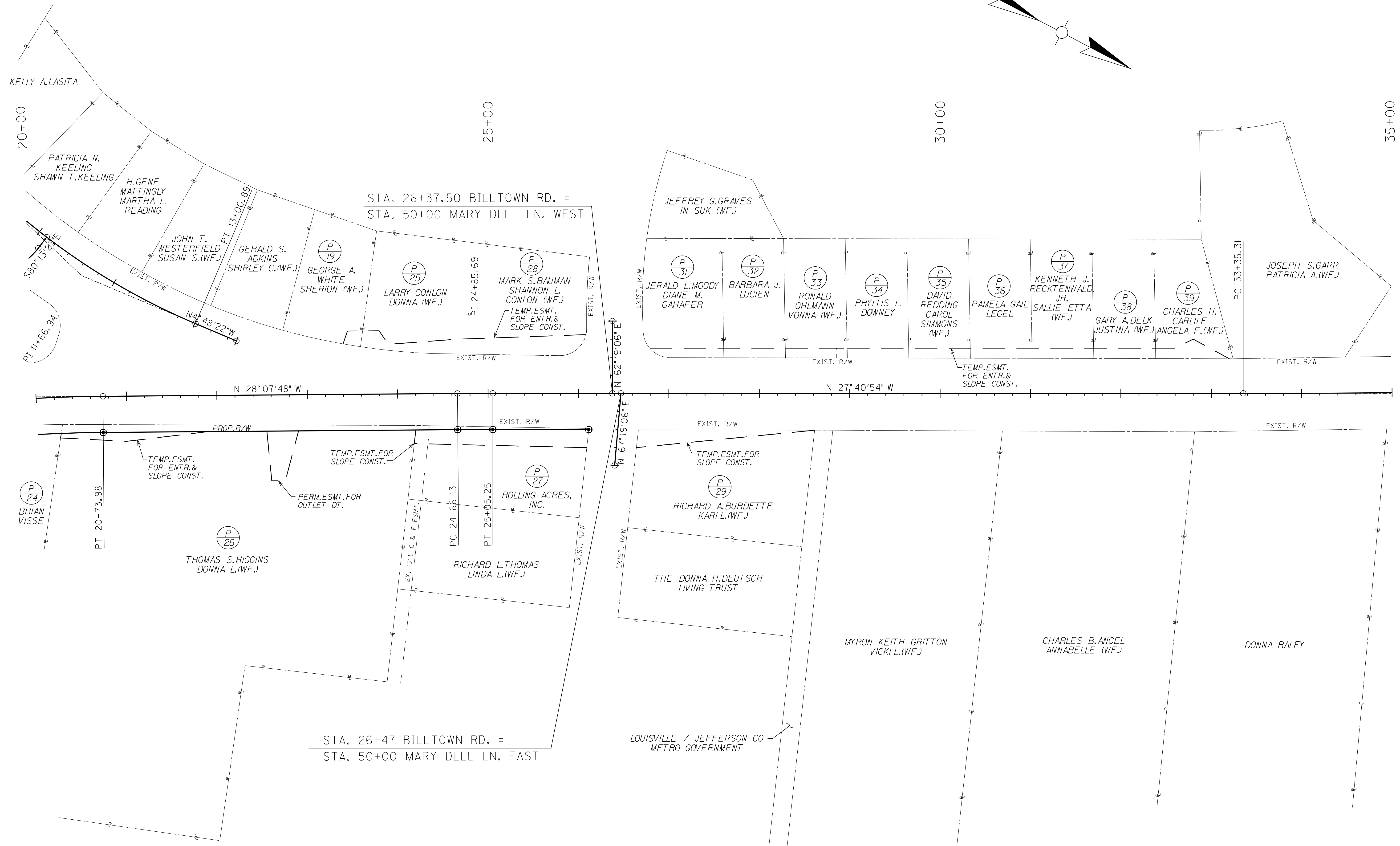
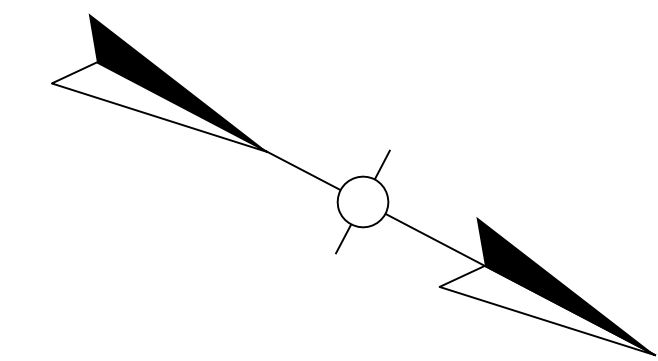


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 USER: Jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



SCALE: 1"= 50'

RIGHT OF WAY
STRIP MAP
STA. 5+00 TO STA. 20+00



SCALE: 1" = 50'

RIGHT OF WAY STRIP MAP
 STA. 20+00 TO STA. 35+00

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DONVEASUM-LOVERS\0805ASM2.DGN
 USER: jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

KY. 1819 CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
6+00.00	3947092.98	4974041.26	P.O.T.
9+06.08	3947369.46	4973909.94	P.C.
10+27.19	3947478.86	4973857.97	P.I.
11+46.23	3947566.34	4973774.22	P.T.
16+37.69	3947921.33	4973434.35	P.C.
18+57.20	3948079.88	4973282.55	P.I.

EASUM ROAD CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
50+00.00	3947350.41	4973918.98	P.O.T.
50+51.35	3947372.45	4973965.36	P.C.
50+88.07	3947388.20	4973998.54	P.I.
51+23.38	3947386.85	4974035.24	P.T.

LOVERS LANE CENTERLINE COORDINATES

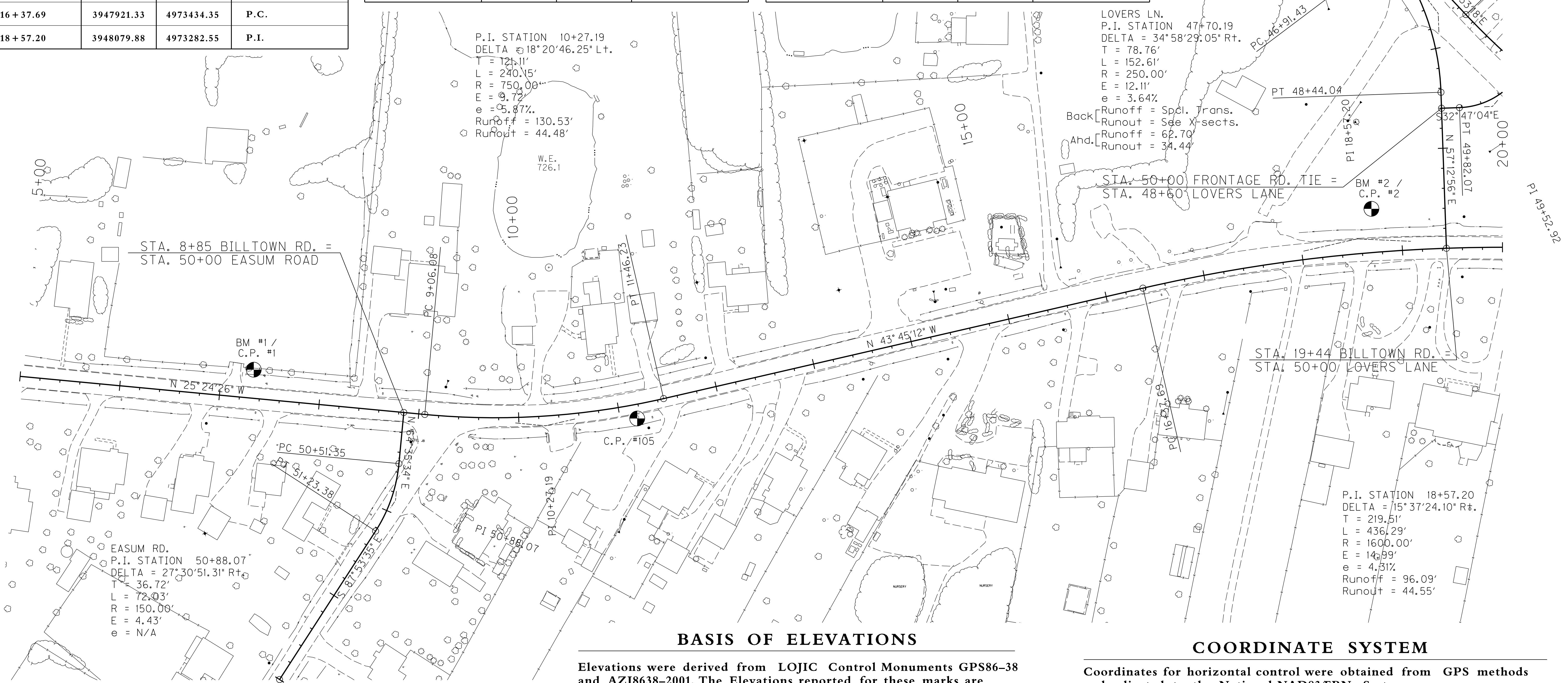
STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
46+09.17	3947961.44	4973017.77	P.C.
47+70.19	3948034.35	4973047.58	P.I.
48+44.04	3948077.00	4973113.80	P.T.
50+00.00	3948161.45	4973244.92	P.O.T.

FRONTAGE ROAD TIE
P.I. STATION 49+52.92
DELTA = 47°26'19.04" Rt.
T = 32.95'
L = 62.10'
R = 75.00'
E = 6.92'
e = N/A

LOVERS LN.
P.I. STATION 47+70.19
DELTA = 34°58'29.05" Rt.
T = 78.76'
L = 152.61'
R = 250.00'
E = 12.11'
e = 3.64%
Back Runoff = Spcl. Trans.
Runout = See X-sects.
Ahd. Runoff = 62.70'
Runout = 34.44'

P.I. STATION 10+27.19
DELTA = 18°20'46.25" Lt.
T = 121.11'
L = 240.15'
R = 750.00'
E = 9.72'
e = 5.87%
Runoff = 130.53'
Runout = 44.48'

P.I. STATION 18+57.20
DELTA = 15°37'24.10" Rt.
T = 219.51'
L = 436.29'
R = 1600.00'
E = 14.89'
e = 4.31%
Runoff = 96.09'
Runout = 44.55'

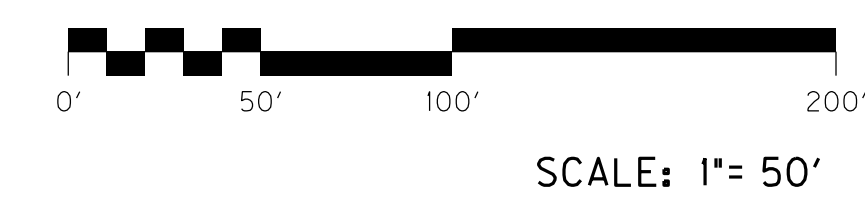


BASIS OF ELEVATIONS

Elevations were derived from LOJIC Control Monuments GPS86-38 and AZI8638-2001. The Elevations reported for these marks are 738.98 (GPS86-38) and 739.72 (AZI8638-2001) and are the basis of elevation for this project. The location of the Benchmarks are as follows:
GPS86-38 - Located near the intersection of KY 1819 (Billtown Road) and Mary Dell Lane, the mark is a Bernsten Monument set approximately 5 feet from the South edge of pavement of Mary Dell Lane and approximately 46 feet from the East edge of pavement of Billtown Road.
AZI8638-2001 - Located near the intersection of KY 1819 (Billtown Road) and Lovers Lane, the mark is an Aluminum Cap set in the top of the East end of a concrete headwall approximately 5 feet from the South edge of pavement of Lovers Lane and approximately 6.5 feet from the West edge of pavement of Billtown Road.

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.
Coordinates are based on State Plane Coordinate System Single Zone and in U.S. Survey Feet.
The project Grid Factor is 0.999893733 and was obtained by using the average Grid Factors from the Primary Survey Control over the project area.



COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates			STATION and OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)	
C.P. #1	I.P. & Cap in Conc.	3947199.78	4973958.97	732.66	7+31.78, 28.50' Left
C.P. #105	Disc in Conc.	3947553.86	4973804.81	735.52	11+16.61, 14.06' Right
C.P. #2	I.P. & Cap in Conc.	3948076.92	4973249.43	739.84	18+72.42, 43.63' Left

FILE NAME: F:\WORK\JEFFERSON\CO\PHASE II\DDN\EASUM-LOVERS\0805ACCS1.DGN
USER: doug
DATE PLOTTED: February 21, 2012
E-SHEET NAME:
MicroStation v8.11.7.180

FRONTAGE ROAD CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
10+00.00	3948029.80	4973026.13	P.O.T.
10+30.00	3948058.66	4973034.34	P.C.
11+66.94	3948190.36	4973071.83	P.I.
13+00.89	3948326.82	4973060.35	P.T.

FRONTAGE ROAD TIE CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
49+19.97	3948134.02	4973067.19	P.C.
49+52.92	3948128.42	4973099.67	P.I.
49+82.07	3948100.72	4973117.51	P.T.
50+00.00	3948085.64	4973127.22	P.O.T.

KY. 1819 CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
20+73.98	3948273.46	4973179.05	P.T.
24+66.13	3948619.29	4972994.16	P.C.
24+85.69	3948636.54	4972984.94	P.I.
25+05.25	3948653.86	4972975.86	P.T.
33+25.00	3949379.79	4972595.03	P.O.T.

MARY DELL LANE - WEST CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
49+20.00	3948733.81	4972843.58	P.O.T.
50+00.00	3948770.98	4972914.42	P.O.T.

MARY DELL LANE - EAST CENTERLINE COORDINATES

STATION	Project Coordinates		DESCRIPTION
	NORTH (Y)	EAST (X)	
50+00.00	3948779.39	4972910.01	P.O.T.
50+80.00	3948810.24	4972983.82	P.O.T.

COORDINATE CONTROL POINTS

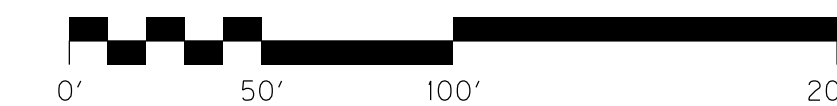
POINT	DESCRIPTION	State Plane Coordinates			STATION and OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)	
C.P. #100	Disc in Headwall	3948223.51	4973174.55	739.72	20+32.77, 28.06' Left
C.P. #1103	Disc in Conc.	3949051.28	4972785.16	741.42	29+45.77, 15.75' Right

COORDINATE SYSTEM

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

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

The project Grid Factor is 0.999893733 and was obtained by using the average Grid Factors from the Primary Survey Control over the project area.



SCALE: 1"= 50'

COORDINATE CONTROL SHEET
STA. 20+00 TO STA. 35+00

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM-LOVERS\0805ACCS2.DGN

USER: doug
DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

FRONTAGE ROAD
P.I. STATION 11+66.94
DELTA = 20°41'39.94" Lt.
T = 136.94'
L = 270.89'
R = 750.00'
E = 12.40'
e = N/A

STA. 11+10 FRONTAGE RD. =
STA. 49+04.65 FRONTAGE RD. TIE

P.I. STATION 35+02.71
DELTA = 9°57'32.88" Lt.
T = 167.40'
L = 334.80'
R = 2000.00'
E = 0.70'
e = N/A

P.I. STATION 18+57.20
DELTA = 15°37'24.10" Rt.
T = 219.51'
L = 436.29'
R = 1600.00'
E = 14.99'
e = 4.31%
Runoff = 96.09'
Runout = 44.55'

P.I. STATION 24+85.69
DELTA = 9°26'53.60" Rt.
T = 19.56'
L = 39.11'
R = 5000.00'
E = 0.04'
e = 1.91%
Runoff = 42.04'
Runout = 44.00'

STA. 26+37.50 BILTOWN RD. =
STA. 50+00 MARY DELL LN. WEST

STA. 26+47 BILTOWN RD. =
STA. 50+00 MARY DELL LN. EAST

RIGHT OF WAY MONUMENT POINTS

STATION and OFFSET	TYPE	DESCRIPTION	Project Coordinates		State Plane Coordinates	
			NORTH (Y)	EAST (X)	NORTH (Y)	EAST (X)
6 + 00.00, 29.15 Left	1				3947080.47	4974014.93
7 + 00.00, 40.00 Left	1				3947166.15	4973962.22
9 + 06.08, 40.00 Left	1				3947352.30	4973873.80
6 + 00.00, 30.85 Right	1				3947106.22	4974069.13
8 + 00.00, 45.00 Right	1				3947292.94	4973996.10
8 + 50.00, 60.00 Right	1				3947344.54	4973988.19
9 + 35.00, 40.00 Right	1				3947413.87	4973932.47
11 + 46.23, 40.00 Left	1				3947538.68	4973745.32
14 + 00.00, 40.00 Left	1				3947721.98	4973569.83
15 + 00.00, 34.73 Left	1				3947797.85	4973504.48
11 + 46.23, 40.00 Right	1				3947594.00	4973803.11
16 + 37.69, 40.00 Right	1				3947948.99	4973463.24
20 + 73.98, 40.00 Right	1				3948292.32	4973214.33
18 + 80.00, 42.06 Left	1				3948084.18	4973246.22
24 + 66.13, 40.00 Right	1				3948638.15	4973029.44
25 + 05.25, 40.00 Right	1				3948672.44	4973011.28
26 + 11.38, 40.00 Right	1				3948766.42	4972961.98
EASUM ROAD						
50 + 80.00, 32.00 Left	1				3947413.19	4973984.26
51 + 45.00, 19.55 Left	1				3947405.59	4974057.56
51 + 45.00, 20.45 Right	1				3947365.62	4974056.09
LOVERS LANE						
47 + 57.69, 32.49 Right	1				3947999.01	4973076.44

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DONVEASUM-LOVERS\RMONSHEET.DGN

USER: doug
DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET					
		2-5	5-10	10-15	15-20	20-25	25-30
12 & 15	2 2/3" x 1/2" CSPHS (1)	16 GA.					
	2 2/3" x 1/2" CSPLS (1)	16 GA.					
	2 2/3" x 1/2" CAPHS	16 GA.					
	PVC	SMOOTH WALL (SOLID WALL)					
	HDPE					FF	
	RCP (11)						
18	2 2/3" x 1/2" CSPHS (1)	16 GA.					
	2 2/3" x 1/2" CSPLS (1)	16 GA.					
	2 2/3" x 1/2" CAPHS	16 GA.					
	SRS (1)	16 GA.					
	SRA	16 GA.					
	PVC	RIBBED (PROFILE WALL)					
	HDPE					FF	
RCP (11)							

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET													
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	
21	2 2/3" x 1/2" CSPHS (1)	16 GA.													
	2 2/3" x 1/2" CSPLS (1)	16 GA.										10 GA.			
	2 2/3" x 1/2" CAPHS	16 GA.													
	SRS (1)	16 GA.													
	SRA	16 GA.						14 GA.							
	PVC	RIBBED (PROFILE WALL)													
	HDPE											FF			
RCP (11)															
24 (6)	2 2/3" x 1/2" CSPHS (1)	16 GA.										14 GA.			
	2 2/3" x 1/2" CSPLS (1)	16 GA.						10 GA.							
	2 2/3" x 1/2" CAPHS	16 GA.						14 GA.				12 GA.			
	SRS (1)	16 GA.						14 GA.				12 GA.			
	SRA	16 GA.				14 GA.				12 GA.				10 GA.	
	PVC	RIBBED (PROFILE WALL)													
	HDPE											FF			
RCP (11)															

NOTES

- ① GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9
2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
3. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE.
4. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUBGRADE ELEVATION SHALL GOVERN GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
5. MINIMUM COVER HEIGHTS FOR PIPE SHALL BE 2 FEET. GAGE OF PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL BE THAT SHOWN FOR COVER HEIGHTS OF 30 FEET (SEE STD. SPECIFICATIONS FOR BACKFILL). HDPE AND PVC SHALL NOT BE PERMITTED FOR COVER HEIGHTS LESS THAN 2 FEET.
- ⑥ 24" DIA. PIPE IS MINIMUM SIZE FOR COVER HEIGHTS FROM 30 FEET TO 65 FEET.
7. MINIMUM COVER HEIGHT FOR ENTRANCE PIPE SHALL BE 0.5 FEET.
8. GAGE OF ENTRANCE PIPE FOR COVER HEIGHTS LESS THAN 2 FEET SHALL MEET THE FOLLOWING REQUIREMENTS:
 - a. GAGE OF CSP SHALL BE THAT SHOWN FOR HEIGHTS OF 30 FEET.
 - b. GAGE OF CAP SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLE.
9. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.
10. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.
- ⑪ SEE DETAIL SHEET "PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER REINFORCED CONC. PIPE" AND DETAIL SHEET "PIPE BEDDING TRENCH CONDITION REINFORCED CONC. PIPE" FOR RCP COVER HEIGHT AND BEDDING REQUIREMENTS.

LEGEND

- CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)
 - CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)
 - CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)
 - HDPE: HIGH DENSITY POLYETHYLENE PIPE
 - PVC: POLYVINYL CHLORIDE
 - SRS: SPIRAL RIB STEEL
 - SRA: SPIRAL RIB ALUMINUM
 - RCP: CIRCULAR REINFORCED CONCRETE PIPE
 - FF: FLOWABLE FILL REQUIRED
- 12" PIPE - 24" PIPE

KENTUCKY
DEPARTMENT OF HIGHWAYS
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS

APPROVED  DATE 04-25-08

PIPE DIA. (IN)	PIPE TYPE	CIRCULAR PIPE COVER HEIGHTS IN FEET ③															
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65			
27 & 30 ⑧	2 2/3" x 1/2" CSPHS ①	16 GA.							14 GA.				12 GA.				
	2 2/3" x 1/2" CSPLS ①	16 GA.					12 GA.										
	2 2/3" x 1/2" CAPHS	14 GA.							12 GA.				10 GA.				
	SRS ①	16 GA.					14 GA.				12 GA.						
	SRA	16 GA.			14 GA.			12 GA.			10 GA.						
	PVC	RIBBED (PROFILE WALL)															
	HDPE	FF															
	RCP ⑩																
36	2 2/3" x 1/2" CSPHS ①	14 GA.							12 GA.				10 GA.				
	2 2/3" x 1/2" CSPLS ①	14 GA.			12 GA.			10 GA.									
	2 2/3" x 1/2" CAPHS	14 GA.							12 GA.				10 GA.			8 GA.	
	SRS ①	14 GA.							12 GA.								
	SRA	14 GA.			12 GA.			10 GA.									
	PVC	RIBBED (PROFILE WALL)															
	HDPE	FF															
	RCP ⑩																
42	2 2/3" x 1/2" CSPHS ①	14 GA.							12 GA.				10 GA.				
	2 2/3" x 1/2" CSPLS ①	14 GA.					12 GA.				10 GA.						
	2 2/3" x 1/2" CAPHS	12 GA.							10 GA.				8 GA.				
	SRS ①	14 GA.							12 GA.								
	SRA	12 GA.					10 GA.										
	PVC	RIBBED (PROFILE WALL)															
	HDPE	FF															
	RCP ⑩																
		2-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65			

LEGEND

- CSPHS: CORRUGATED STEEL PIPE WITH HELICAL LOCK SEAM OR HELICAL WELDED SEAM (HELICAL CORR.)
- CSPLS: CORRUGATED STEEL PIPE WITH LONGITUDINAL RIVETED OR SPOT WELDED SEAM (ANNULAR CORR.)
- CAPHS: CORRUGATED ALUMINUM ALLOY PIPE WITH HELICAL LOCK SEAM (HELICAL CORR.)
- HDPE: HIGH DENSITY POLYETHYLENE PIPE
- PVC: POLYVINYL CHLORIDE
- SRS: SPIRAL RIB STEEL
- SRA: SPIRAL RIB ALUMINUM
- RCP: CIRCULAR REINFORCED CONCRETE PIPE
- FF: FLOWABLE FILL REQUIRED

NOTES CONTINUED

- ⑩ SEE DETAIL SHEET "PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER REINFORCED CONC. PIPE" AND DETAIL SHEET "PIPE BEDDING TRENCH CONDITION REINFORCED CONC. PIPE" FOR RCP COVER HEIGHT AND BEDDING REQUIREMENTS.

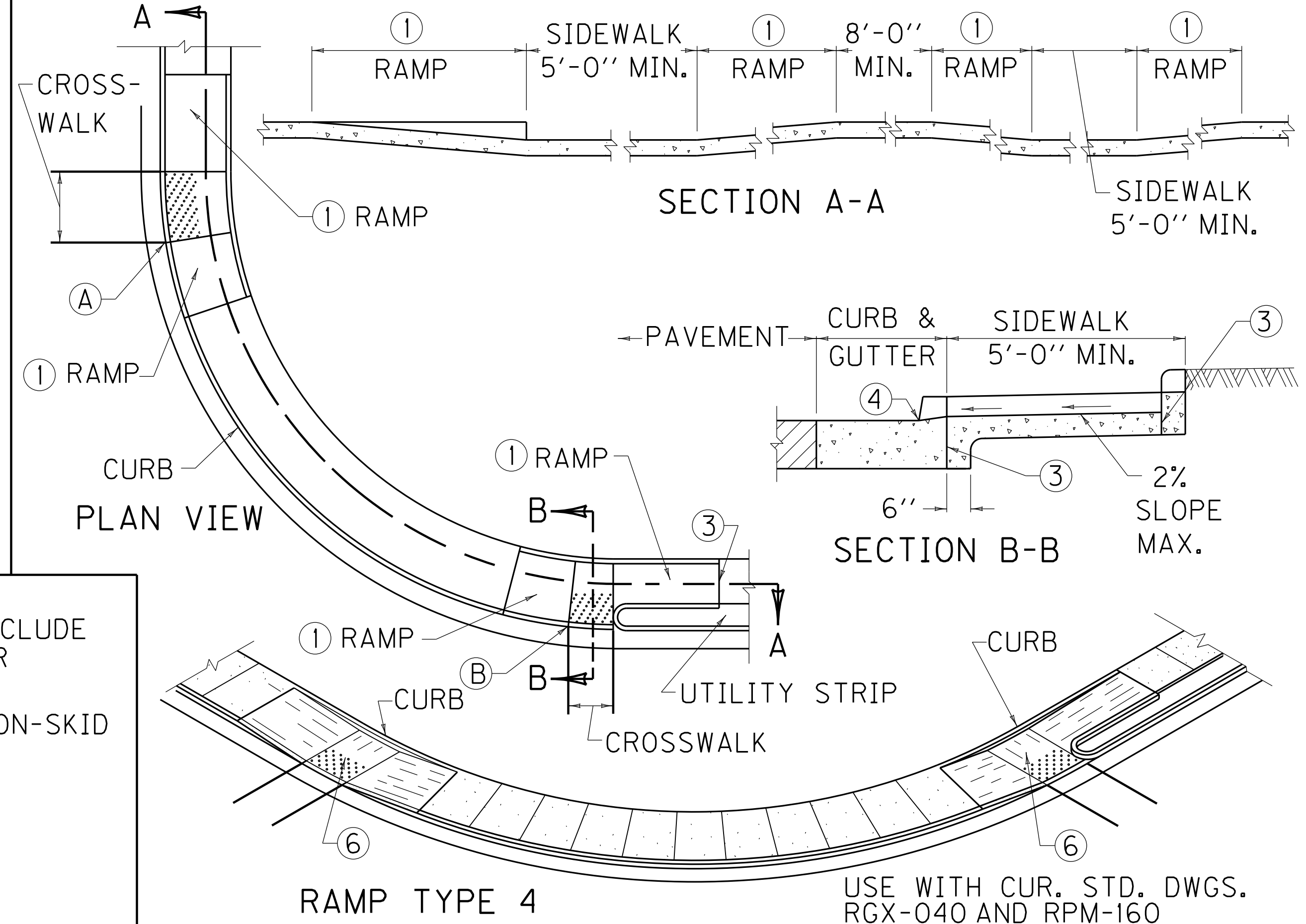
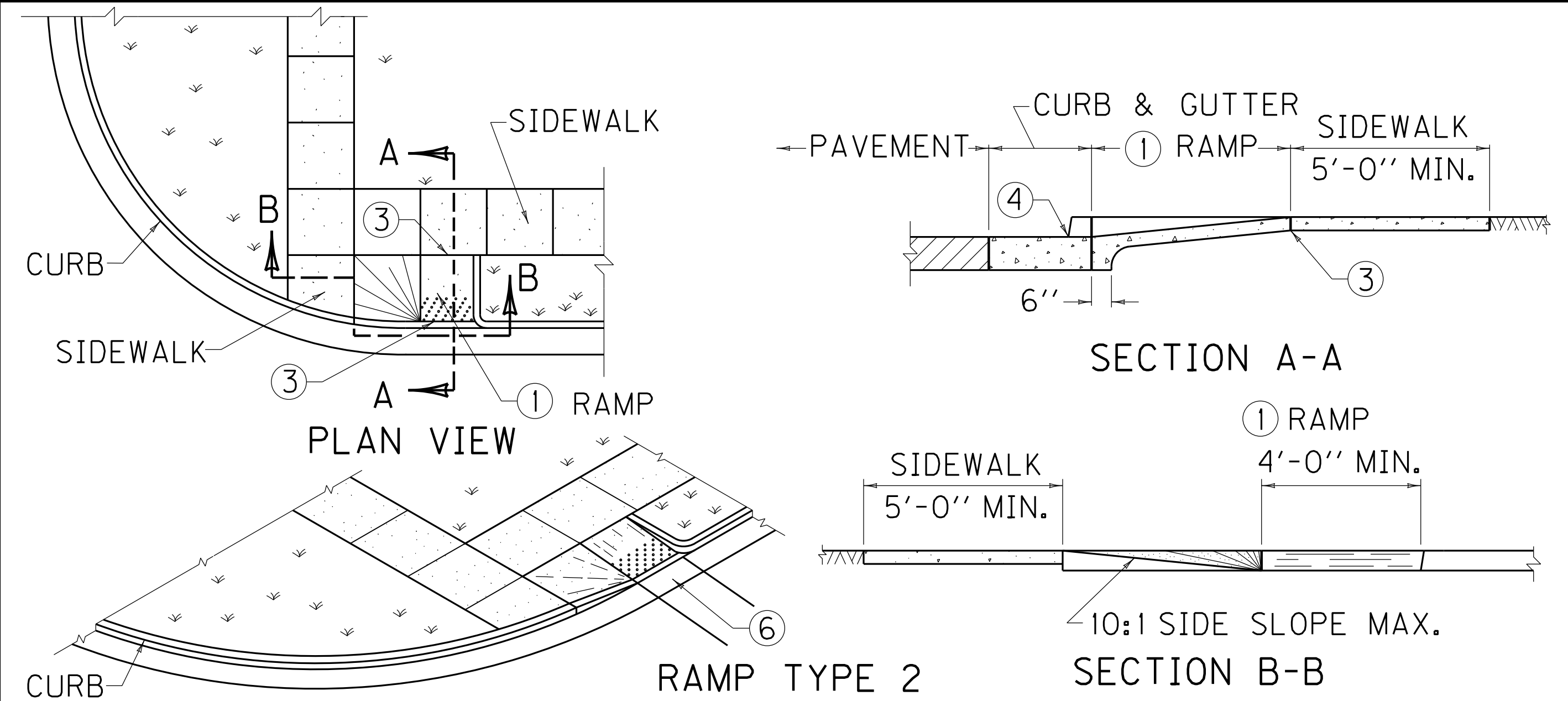
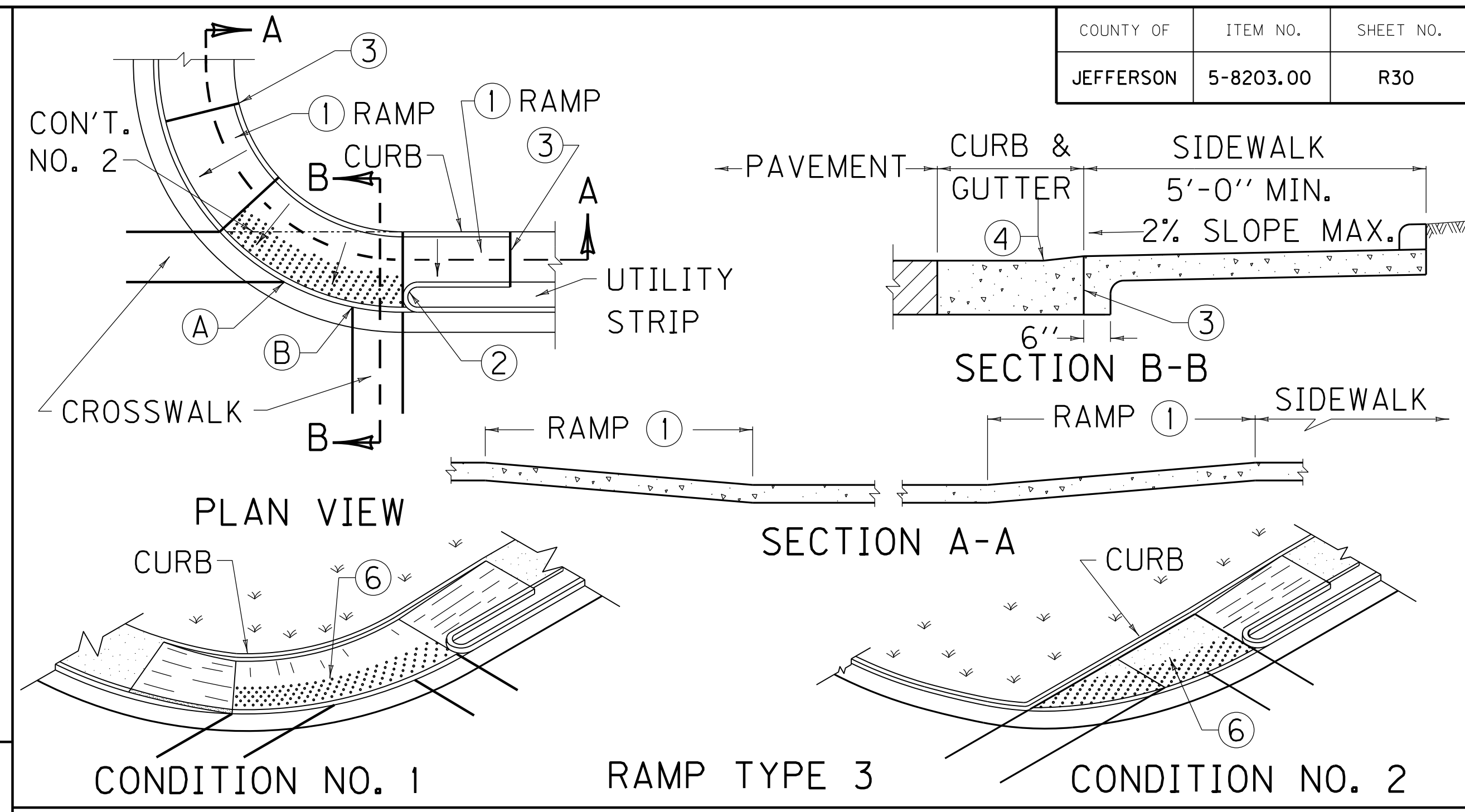
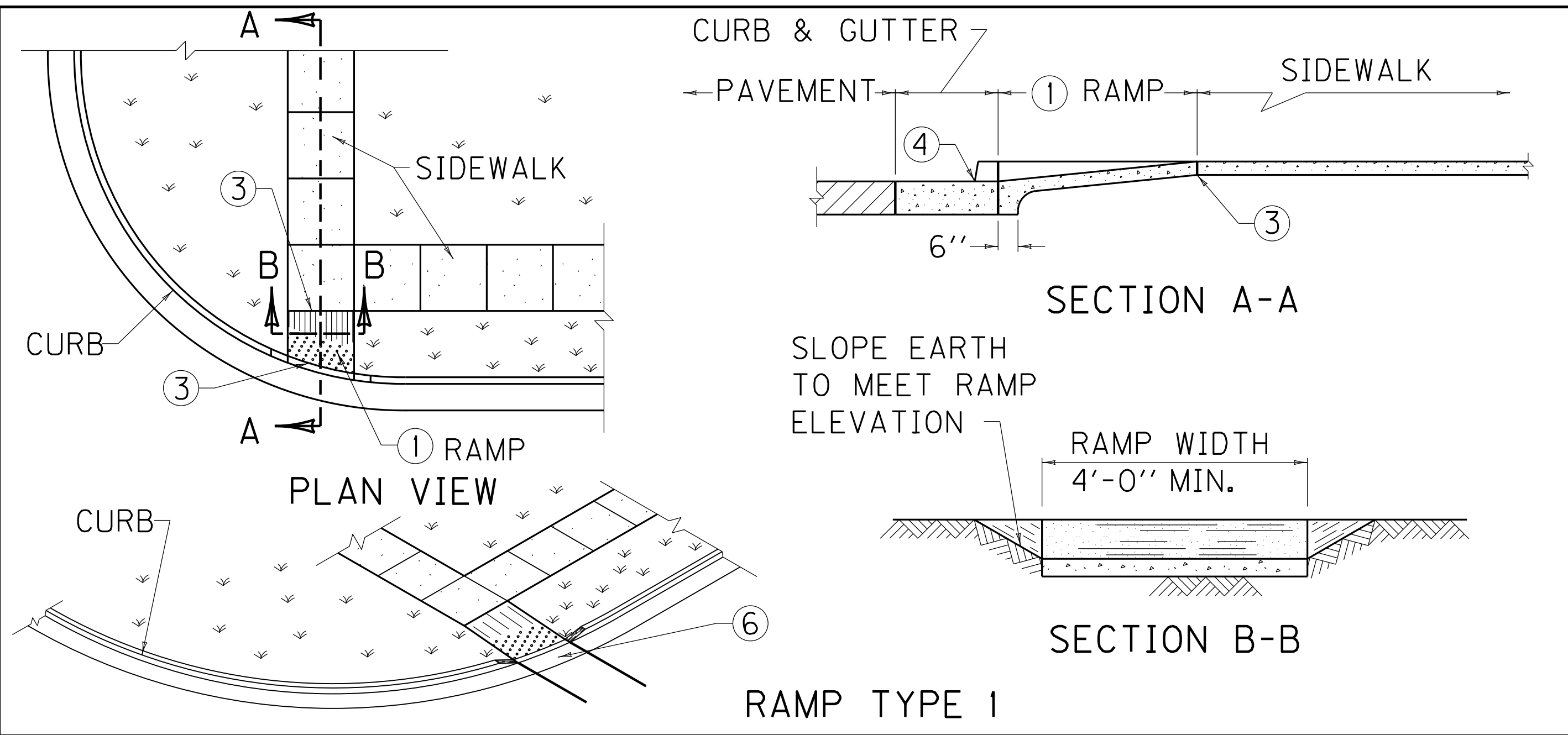
NOTES

- ① GAGES FOR CORRUGATED STEEL PIPE ITEMS SHOWN ARE BASED ON ALUMINUM-COATED TYPE 2 STEEL AS PER AASHTO M-274. ALUMINUM COATED TYPE 2 STEEL IS ONLY PERMITTED IN Ph RANGES OF 5 TO 9.
- 2. WHEN CORRUGATED STEEL PIPE IS ZINC COATED (GALVANIZED) THE GAGE SHALL BE ONE GAGE HEAVIER THAN SHOWN IN THE TABLES.
- ③ SEE CURRENT STANDARD DRAWING RDI-001 FOR EXPLANATION OF COVER HEIGHTS LESS THAN 2 FEET.
- 4. CSP, CAP, SRS AND SRA ARE SHOWN IN GAGE.
- 5. MAXIMUM COVER HEIGHT MEASURED FROM TOP OF PIPE TO SUB GRADE ELEVATION SHALL GOVERN GAGE OF PIPE TO BE USED FOR ENTIRE LENGTH OF PIPE INSTALLATION.
- 6. MINIMUM COVER HEIGHT FOR ENTRANCE PIPE SHALL BE 0.5 FEET.
- 7. ALL CIRCULAR STRUCTURAL PLATE SHALL BE 5% VERTICALLY ELONGATED.
- ⑧ ENTRANCE PIPE GREATER THAN 30" DIA. SHALL BE CULVERT PIPE.
- 9. SEE CURRENT STANDARD DRAWING RDI-035 FOR COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PIPE.

27" PIPE - 42" PIPE

KENTUCKY
DEPARTMENT OF HIGHWAYS

CULVERT, ENTRANCE &
STORM SEWER PIPE TYPES
& COVER HEIGHTS



NOTES

RAMPS SHALL BE PAID PER SQ. YARD OF 4" CONC. SIDEWALK AND THE UNIT PRICE SHALL INCLUDE ALL MATERIALS, FORMS, CURB BEHIND RAMP AND LANDING, AND INCIDENTALS NECESSARY FOR CONSTRUCTION.

THE RAMP SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE. A BROOM FINISH OR EQUAL NON-SKID FINISH IS REQUIRED. DETECTABLE WARNINGS SHALL BE A SEPARATE BID ITEM.

THE NORMAL GUTTER LINE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.

RAMPS SHOULD BE LOCATED WITHIN MARKED LIMITS OF CROSSWALKS.

USE RAMP TYPE 3 WHEN POINT A TO B IS LESS THAN 20 FEET.

USE RAMP TYPE 4 WHEN POINT A TO B IS 20 FEET OR MORE.

① CURB RAMP GRADE SHALL NOT EXCEED 12:1, CROSS SLOPE SHALL NOT EXCEED 2%. ON RETROFIT CURB RAMPS, GRADES OF 12.5% FOR 2'-0" OR 10% FOR 5'-0" ARE PERMISSABLE.

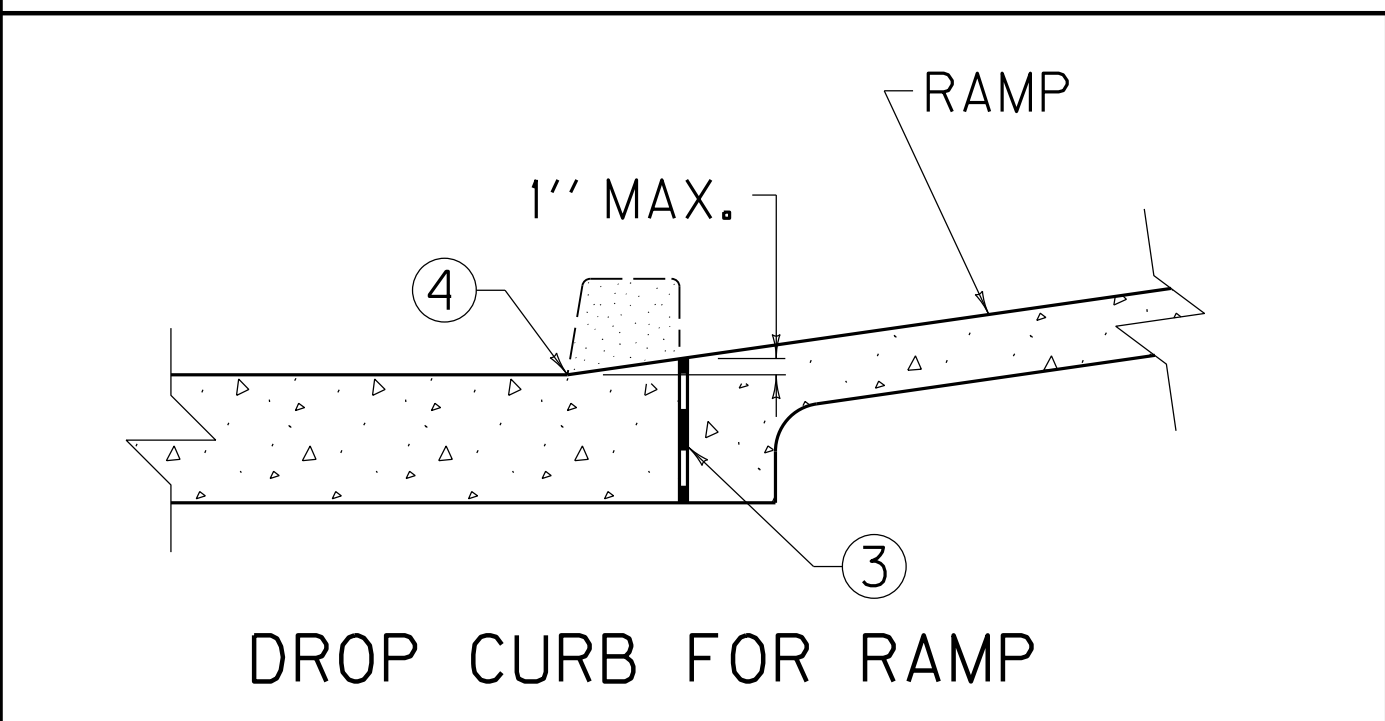
② CURB RETURN REQUIRED WHEN UTILITY STRIP IS 4 FEET OR GREATER. FOR UTILITY STRIPS LESS THAN 4 FEET, THE AREA IS TO BE SURFACED WITH SIDEWALK WITHIN THE RAMP.

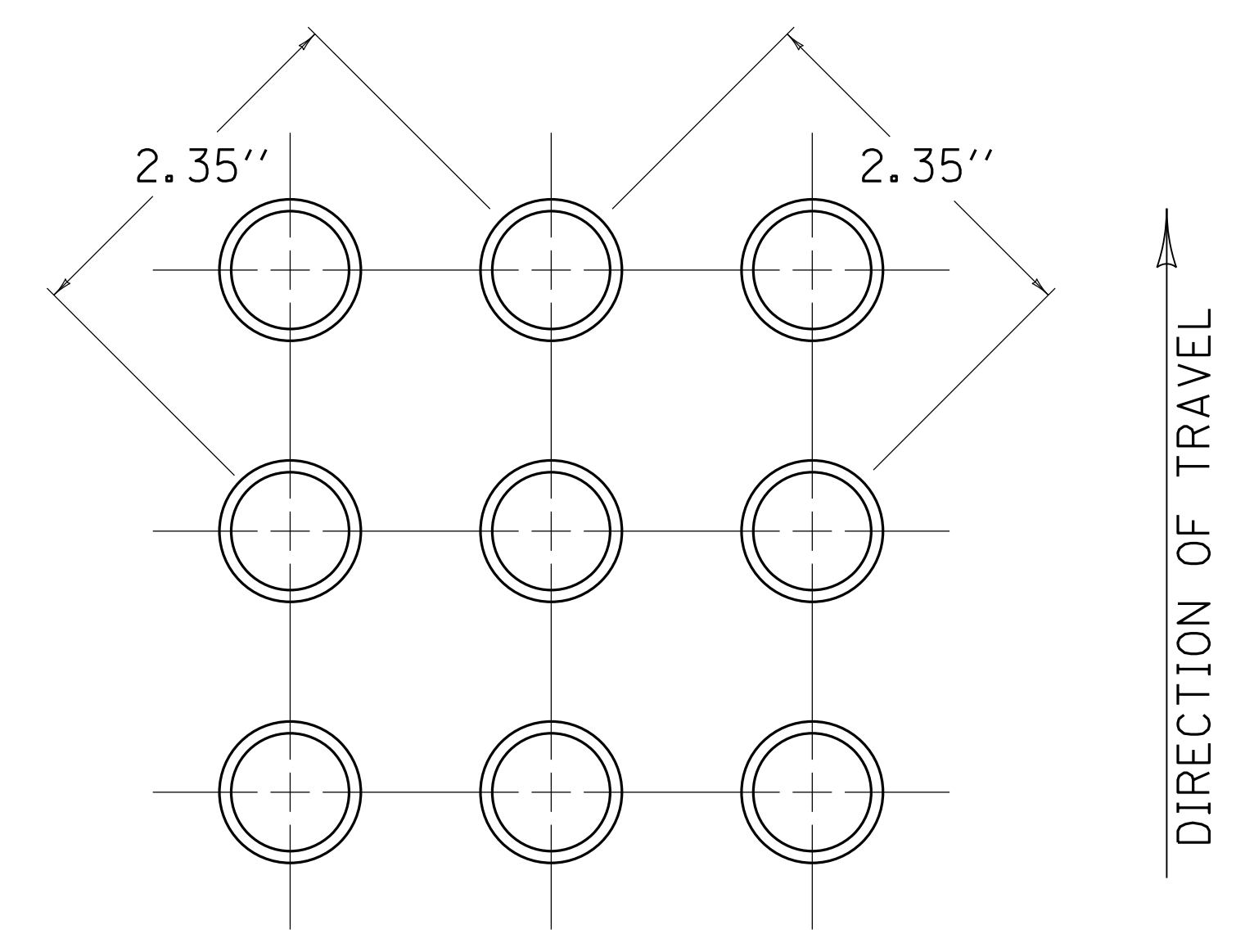
③ 1/2" EXPANSION JOINT AT BACK OF CURB LINE AND AT SIDEWALK LINE.

④ NO BUMP PERMITTED. SAME SLOPE AS RAMP AND NOT TO EXCEED 1" IN HEIGHT. RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

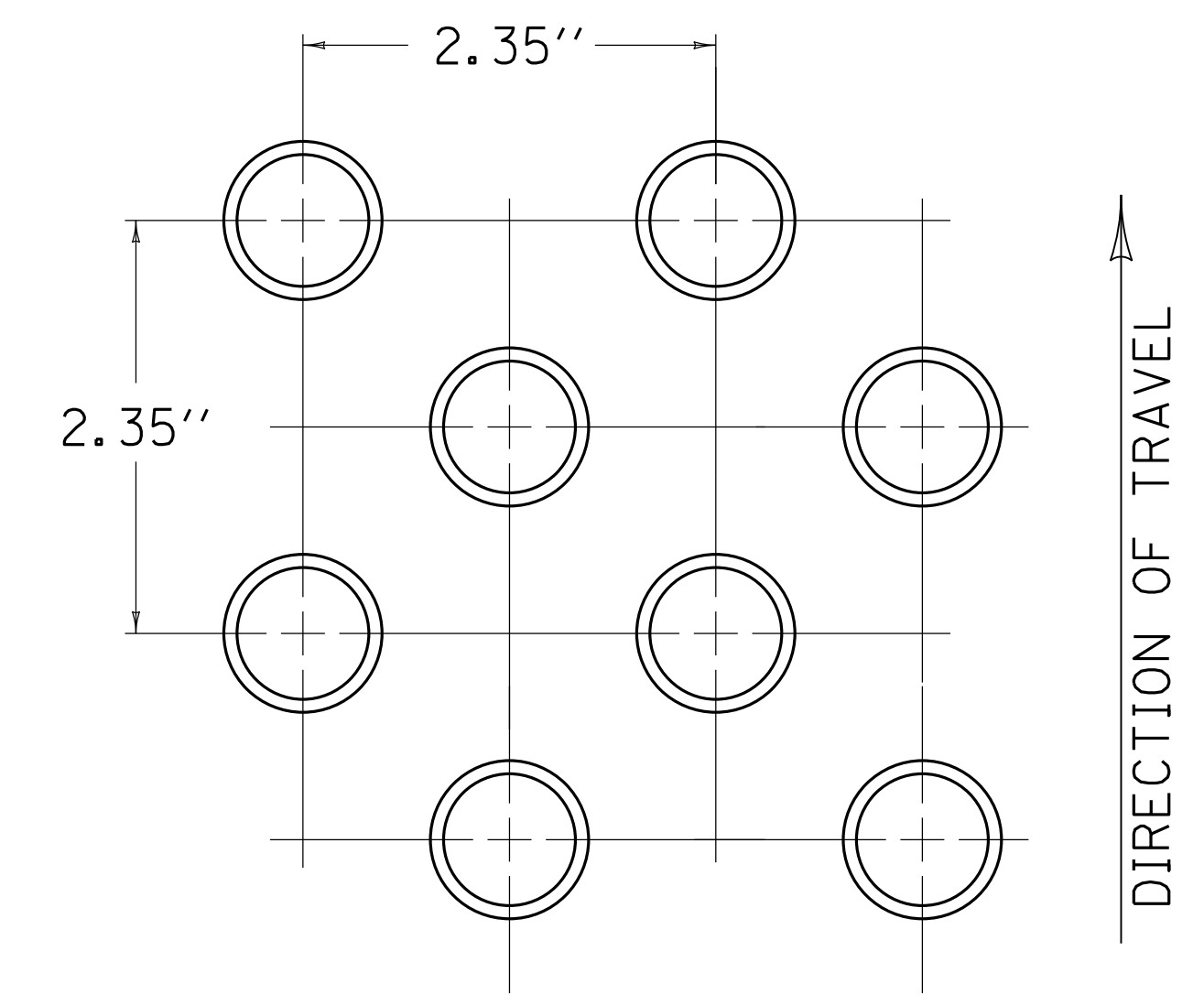
5. ALL SIDEWALK RAMPS REQUIRE DETECTABLE WARNINGS.

⑥ LANDINGS WILL PROVIDE A LEVEL AREA (LESS THAN 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4 FOOT SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.

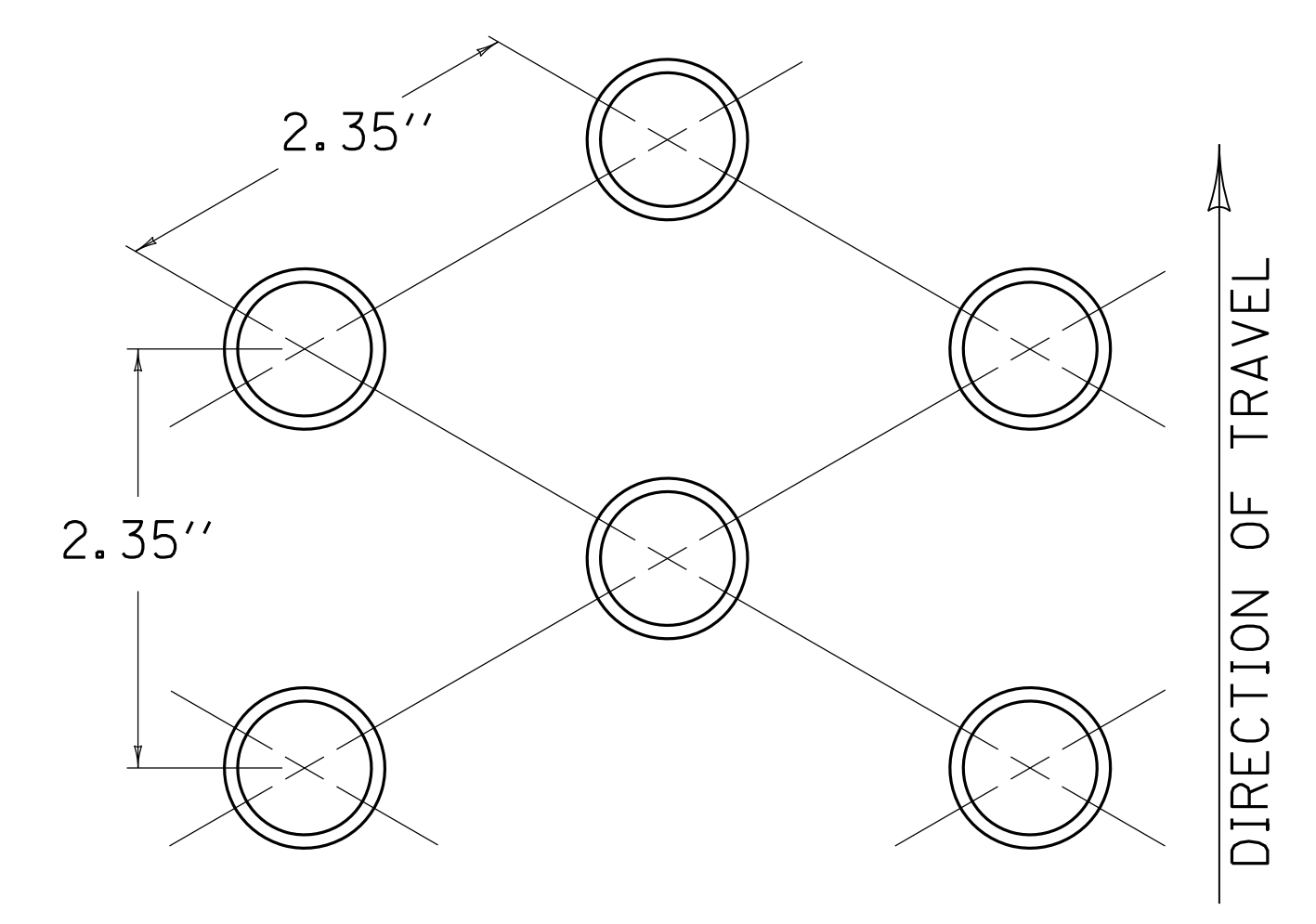




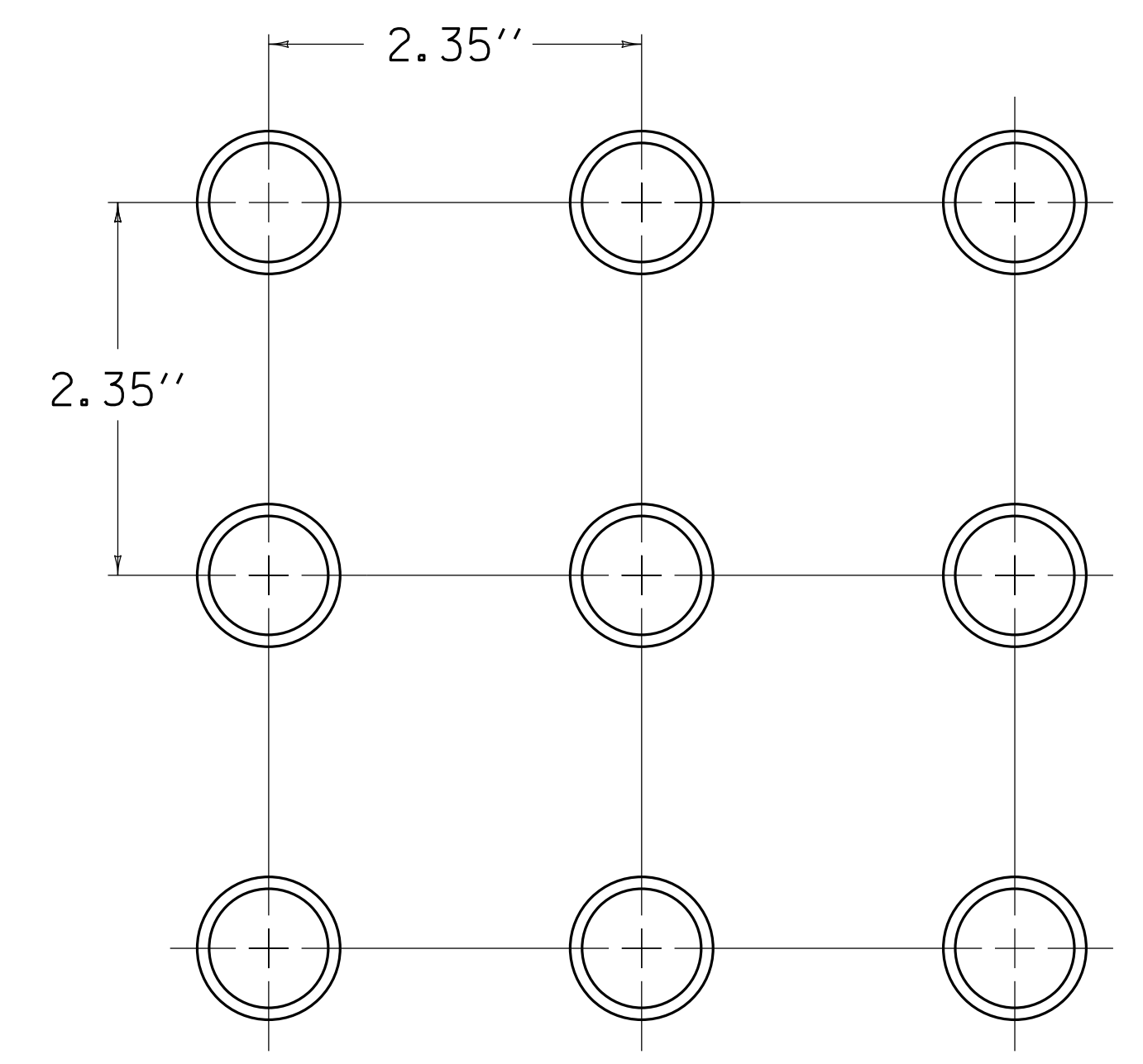
SQUARE PATTERN (PARALLEL ALIGNMENT)



SQUARE PATTERN (DIAGONAL ALIGNMENT)



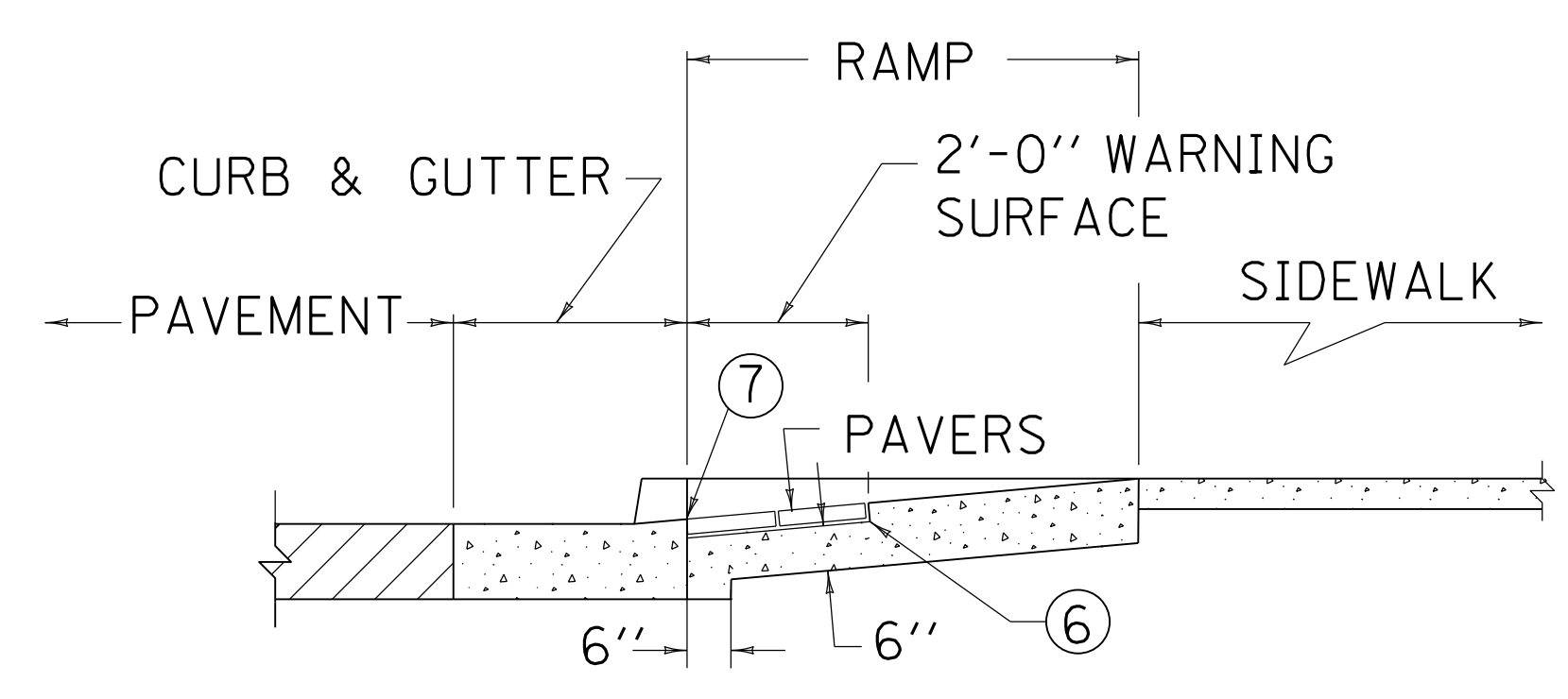
TRIANGULAR PATTERN



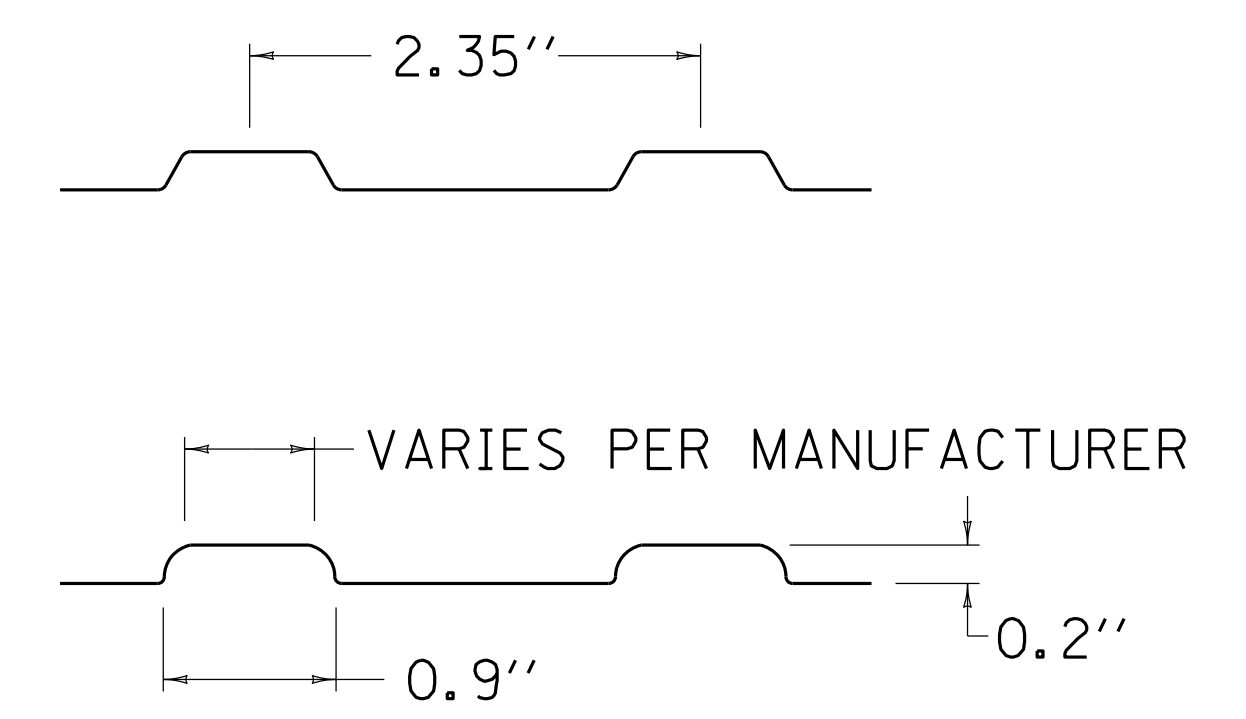
SQUARE PATTERN

NOTES

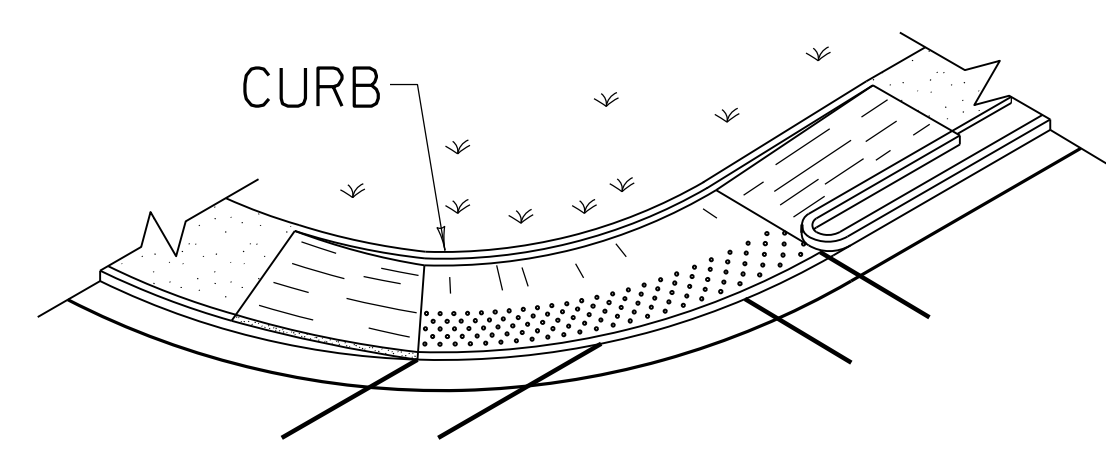
- BID ITEM AND UNIT TO BID.
DETECTABLE WARNINGS - SQ. FT.
1. LANDINGS WILL PROVIDE A LEVEL AREA (LESS THAN 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4 FOOT SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.
 2. ALL SIDEWALK RAMPS REQUIRE DETECTABLE WARNINGS.
 3. COMMERCIAL DRIVEWAYS WITH TRAFFIC CONTROL DEVICES REQUIRE ADA SIDEWALK TREATMENTS WITH DETECTABLE WARNINGS.
 4. PAVERS SHALL BE CONCRETE WITH A MINIMUM THICKNESS OF 2".
 5. PAVERS SHALL BE A COLOR HOMOGENOUS THROUGHOUT THE PAVER, THAT COLOR SHALL CONTRAST VISUALLY WITH THE ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE DEPARTMENT WILL ALLOW EITHER YELLOW OR RED AS COLORS.
- ⑥ PAVERS TO BE SET IN MORTAR.
⑦ DETECTABLE WARNING SURFACE BEGINS AT BACK OF CURB.



TYPICAL DETECTABLE WARNING INSTALLATION



DETECTABLE WARNINGS PROFILE




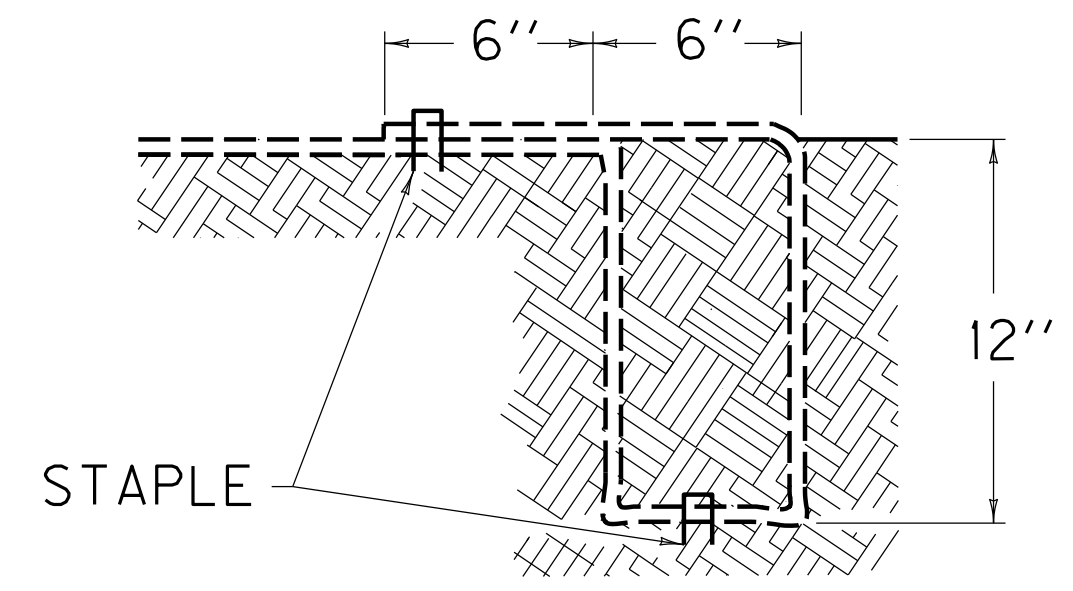
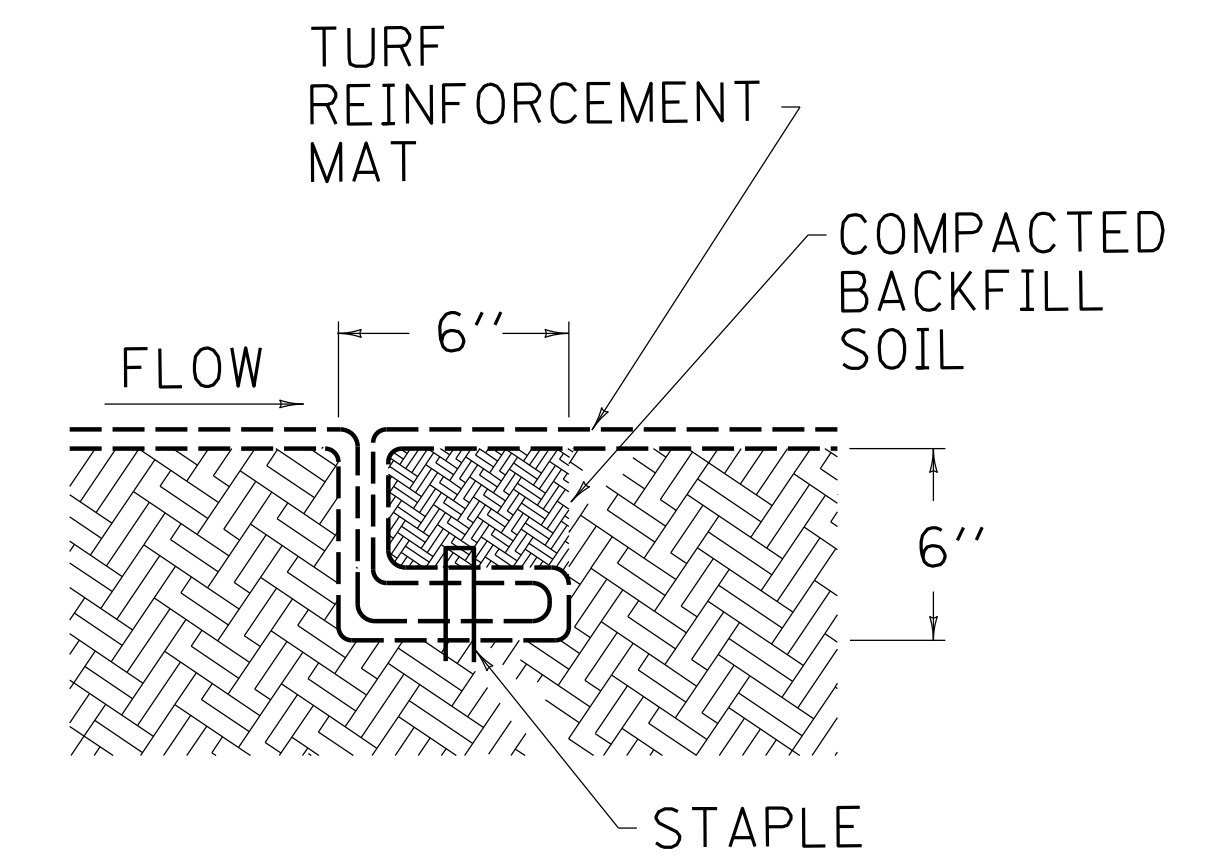
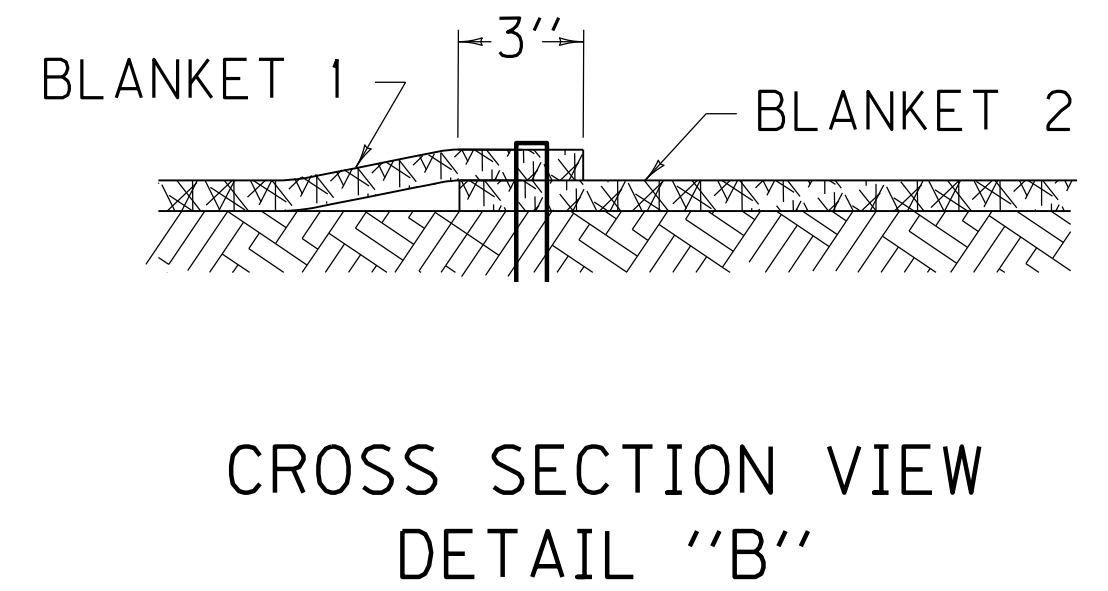
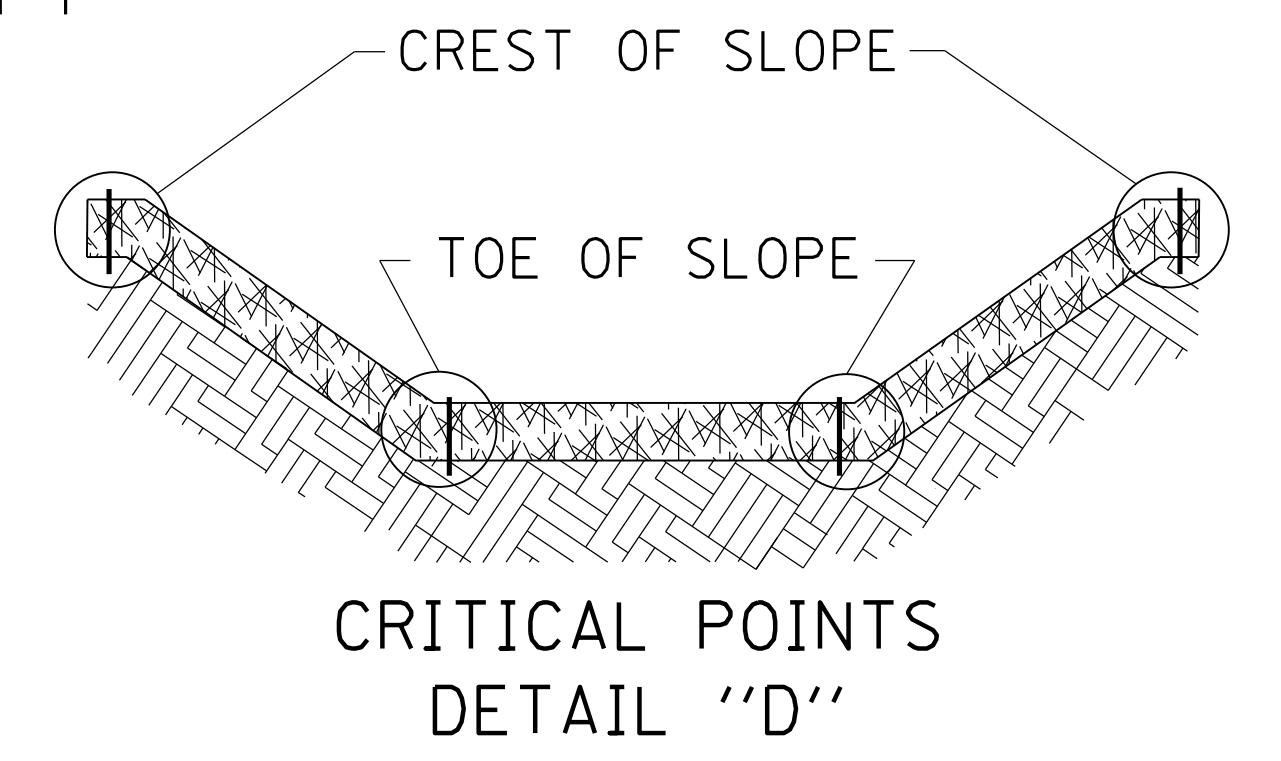
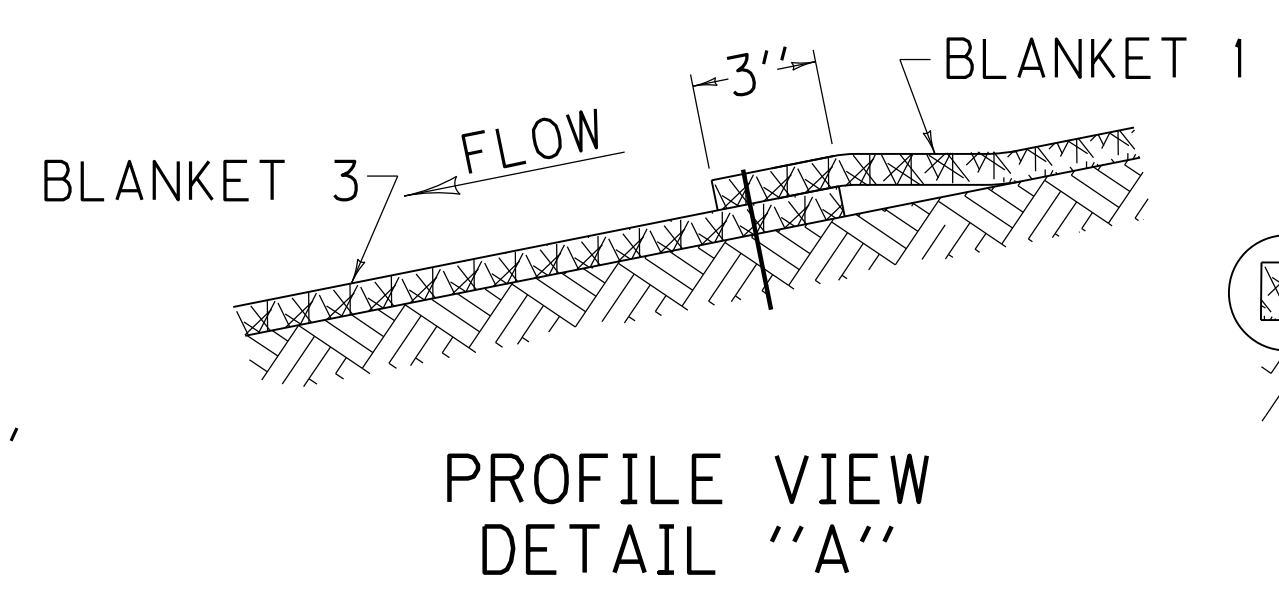
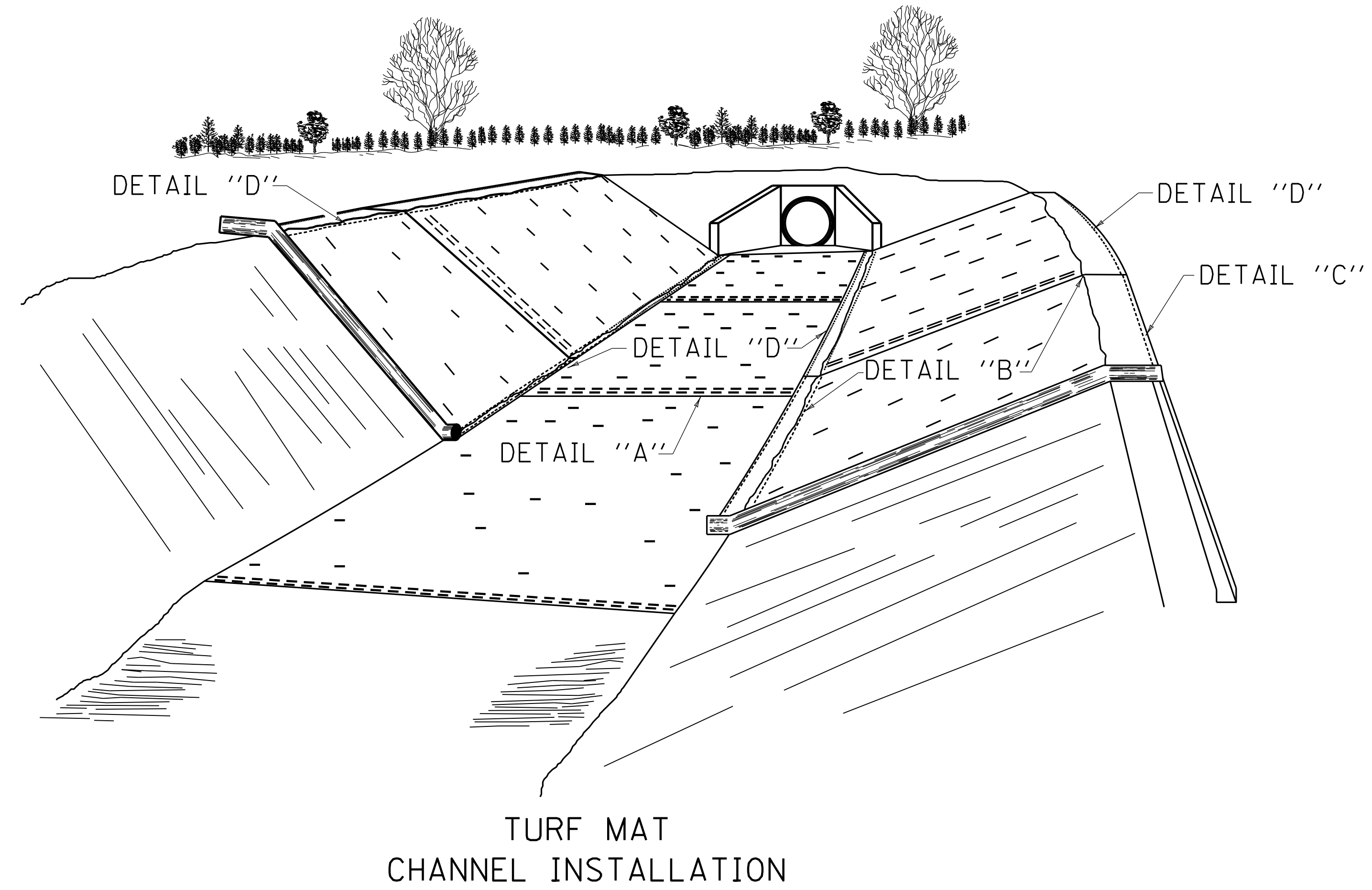
TYPICAL PLACEMENT PARALLEL CURB RAMPS

USE WITH CUR. STD. DWGS.
RPM-160 AND RPM-170

KENTUCKY
DEPARTMENT OF HIGHWAYS

DETECTABLE
WARNINGS

APPROVED  03-13-09
TECH. DIVISION OF HIGHWAY DESIGN DATE




NOTES

1. CONSTRUCT A 6" X 12" ANCHOR TRENCH AT THE BEGINNING OF THE CHANNEL. LINE THE ANCHOR TRENCH WITH TURF REINFORCING MAT LEAVING 18" EXTENDING PAST THE ANCHOR TRENCH. FASTEN THE MAT MATERIAL INTO THE ANCHOR TRENCH ON 12" CENTERS BACKFILL THE TRENCH WITH TOPSOIL AND COMPACT. COVER THE AREA WITH THE REMAINING 12" OF THE MAT'S TERMINAL END LEAVING 6" TO OVERLAP THE TURF REINFORCING MAT. SECURE THE 6" OVERLAP WITH STAPLES ON 12" CENTERS.
2. UNROLL THE MAT PARALLEL TO THE PRIMARY DIRECTION OF WATER FLOW AND PLACE IN DIRECT CONTACT WITH THE SOIL SURFACE. DO NOT STRETCH OR ALLOW THE MATERIAL TO BRIDGE OVER SURFACE INCONSISTENCIES.
- ③ EXCAVATE 6" X 6" CHECK SLOTS EVERY 25' ALONG THE LENGTH OF THE CHANNEL. LINE THE SIDE AND BOTTOM OF THE SLOT WITH THE MAT AND THEN PULL BACK OVER. FASTEN WITH STAPLES ON 12" CENTERS. FILL THE CHECK SLOT WITH TOPSOIL, COMPACT, AND CONTINUE UNROLLING MAT DOWN THE CHANNEL.
4. CONTINUE UNROLLING THE MAT DOWNSTREAM OVER THE COMPACTED SLOT TO NEXT CHECK SLOT OR TERMINAL ANCHOR TRENCH. IF MORE THAN ONE SECTION OF MAT IS USED OVERLAP UPSTREAM MATS OVER TOP OF THE DOWNSTREAM MAT 3" AND SECURE STAPLES ON 12" CENTERS.
5. SECURE MATS WHILE UNROLLING ON SIDESLOPES AND CHANNEL BOTTOMS WITH STAPLES AT A FREQUENCY THE TABLE INDICATES. USE STAPLES HAVING SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. INCREASE ANCHORING FREQUENCY AS DIRECTED BY THE ENGINEER AND MANUFACTURER'S REPRESENTATIVE.
6. APPLY SEEDING AND PROTECTION ACCORDING TO SECTION 212.03.03 USING SEED MIX TYPE I. DIRECTLY AFTER APPLYING SEEDING AND TREATMENTS IN 212.03.03, BUT BEFORE APPLYING MULCHING OR HYDROMULCHING: INFILL THE VOID SPACES IN THE MAT WITH 1/2" OF TOPSOIL. TOPSOIL IS THE SOIL PROFILE DEFINED TECHNICALLY AS "A" HORIZON BY THE SOIL SCIENCE SOCIETY OF AMERICA. USE LOOSE, FRIABLE TOPSOIL THAT IS FREE OF STONES 1" OR GREATER IN OVERALL DIMENSIONS, ADMIXTURE OF SUBSOIL, REFUSE, STUMPS, ROOTS, BRUSH, WEEDS AND OTHER MATERIALS THAT PREVENT THE FORMATION OF A SUITABLE SEED BED. DO NOT USE TOPSOIL FROM SITES HAVING JOHNSON GRASS, CANADA THISTLE, QUACK GRASS, NODDING THISTLE OR EXCESSIVE AMOUNTS OF WEEDS OR THEIR RHIZOMES.

SLOPE GRADE	ANCHORING FREQUENCY
UP TO 2H:1V	1.5 ANCHORS/SQUARE YARD
2H:1V TO 1H:1V	2.0 ANCHORS/SQUARE YARD
STEEPER THAN 1H:1V AND CHANNEL BOTTOMS	3.0 ANCHORS/SQUARE YARD

**KENTUCKY
DEPARTMENT OF HIGHWAYS**

**TURF MAT
CHANNEL
INSTALLATION**

SUBMITTED:  05-20-09
TECHNICAL DIVISION OF HIGHWAY DESIGN DATE

022

TRAFFIC MANAGEMENT PLAN

TRAFFIC MANAGEMENT PLAN NOTES

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R33

1. Traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices, the Standard Specifications for Road and Bridge Construction and the Standard Drawings.
2. The Contractor shall maintain a two-lane traveled way with a minimum lane width of 11 feet. However, during working hours one-way traffic may be allowed at the discretion of the Engineer, provided adequate signing and flagpersons are at the location.
3. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid for at the lump sum bid price to "Maintain and Control Traffic" as set forth in the current Standard Specifications for Road and Bridge Construction unless otherwise provided for in these notes. The lump sum bid to "Maintain and Control Traffic" shall also include, but is not limited to, the following items and operations:
 - a. All grading and necessary drainage (unless a bid item for diversion construction is included) for the temporary roadway and removal thereof when it is no longer needed. If a bid item for diversions is included, grading and drainage will be paid for in the bid item "Diversions".
 - b. All labor and materials necessary for construction and maintenance of traffic control devices and markings.
 - c. All flagpersons and traffic control devices such as, but not limited to, flashers, signs, barricades, vertical panels, plastic barrels (steel barrels will not be permitted) and cones necessary for the control and protection of vehicular and pedestrian traffic as specified in these notes, the plans, the Manual on Uniform Traffic Control Devices, or by the Engineer.
4. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the Contractor, unless otherwise addressed, when no longer needed.
5. The Contractor shall completely cover any signs, either existing, permanent or temporary which do not properly apply to the current traffic phasing, and shall maintain the covering until the signs are applicable or are removed.
6. In general, all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic and removed starting and proceeding in the direction opposite to the flow of traffic.
7. The Engineer and the Contractor, or their authorized representatives, shall review the signing before traffic is allowed to use any lane closures, crossovers, or diversions. All signing shall be approved by the Engineer before work can be started by the Contractor.
8. If the Contractor desires to deviate from the traffic control scheme and construction schedule outlined in these plans and this proposal, he shall prepare an alternate plan and present it in writing to the Engineer. This alternate plan can be used only after review and approval of the Divisions of Traffic, Design and Construction, and the Federal Highway Administration where applicable.
9. If traffic should be stopped due to construction operations and an emergency vehicle on an official emergency run arrives on the scene, the Contractor shall make provisions for the passage of that vehicle as quickly as possible.
10. Any roadways that are anticipated to be in use for a period of seven consecutive days or more for the maintenance of traffic shall be paved with bituminous surfacing materials as directed by the Engineer. The contractor will be assessed damages of \$1000/day for the time after 7 days that the roadway is not paved unless approved by the engineer. Payment shall be in accordance with the appropriate bid items for the type of bituminous material selected. Removal of such for continuing grade and drain work or any other permanent work item that may be in conflict with the temporary bituminous surfacing shall be incidental.
11. During construction, if the Contractor moves equipment, material, etc. back and forth across public roadways that remain open, special provisions may be required by the Engineer. This may include but is not limited to, plating of existing pavements, flaggers, special signing, or lighting to emphasize the construction equipment crossing the roadway.
12. All signs necessary for a marked detour will be provided by the contractor as required by standard drawings and the MUTCD. Signs outside the project limits shall be paid for by the square foot. This quantity shall include sign mounting hardware and posts.
13. Difference in Elevation for Travel Lanes
A pavement edge that traffic is expected to cross in a lane change situation should not have an elevation difference greater than 1-1/2 inches. This may be increased to 2 inches for low speed situations. Warning signs should be placed in advance of and throughout the drop-off area.
14. Pavement Drop-Off
Pavement edges that traffic is not expected to cross, except accidentally, should be treated as follows:
 - Less than 2 inches - No protection required. Warning signs should be placed in advance and throughout the drop-off area.
 - 2 to 4 inches - Place plastic barrels, vertical panels or barricades every 100 feet on tangent sections for speeds of 50 miles per hour or greater. Cones may be used in place of plastic barrels, panels, and barricades during daylight hours. For tangent sections with speeds less than 50 miles per hour and curves, devices should be in accordance with the Manual on Uniform Traffic Control Devices.
 - Greater than 4 inches - Positive separation or wedge with 3:1 or flatter slope needed. If there is 5 feet or more distance between the edge of pavement and drop-off, barrels, panels, or barricades may be used. If the drop-off is greater than 12 inches, positive separation is strongly encouraged. If concrete barricades are used, reflective devices or steady burn lights should be used for overnight installation.

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

Lesser treatments than those described above may be considered for low-volume local streets.

Payment will be allowed for the C.S.B. used for wedging.
15. Removal of Pavement Markings
The Contractor shall remove all pavement markings that do not conform to the traffic operation in use. In areas where the marking will conform to the final marking scheme or for other reasons will not be removed, markings shall be of a permanent type pavement marking material. All temporary markings which must be subsequently removed from the ultimate pavement shall be an approved temporary striping paint. Temporary striping paint shall be measured in linear feet for payment.
Markings on existing or temporary pavement may be removed by either an abrasion or burning process to the satisfaction of the Engineer. Painting of existing markings with bituminous or other materials to obliterate the markings shall not be allowed.
16. Contractor's Vehicles
The Contractor's vehicles shall always move with and not against the flow of traffic. Vehicles shall enter and leave work areas in a manner which will not be hazardous to or interfere with normal traffic. Vehicles shall not park or stop except within work areas designated by the Engineer.
17. Variable Message Signs
Variable Message Signs shall be placed at locations approved by the engineer. Upon project completion, the variable message signs shall remain property of the Contractor.
18. Local access shall be maintained during all construction phases.
19. Phase V
In the final phase, all lane closures and diversions will be removed and the facility will be reopened to traffic. Final surfacing operations will be completed for the entire project. This work will be done under traffic.

FOR MAINTENANCE OF
TRAFFIC ONLY

CONSTRUCTION PHASING NOTES

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EA\SUM-LOVERS\0805AMOTNOTES.DGN

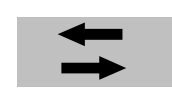
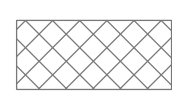
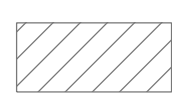
USER: jim
DATE PLOTTED: Feb 01, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

FOR MAINTENANCE OF
TRAFFIC ONLY

LEGEND

-  TRAFFIC FLOW
-  PAVEMENT CONSTRUCTION
-  OTHER CONSTRUCTION

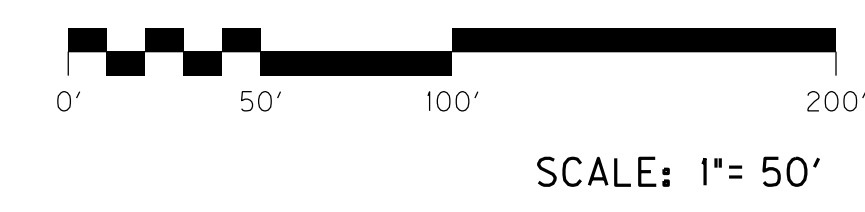
P.I. STATION 10+27.19
 DELTA = 18°20'46.25" L+
 T = 121.11'
 L = 240.15'
 R = 750.00'
 E = 9.72'
 e = 5.87%
 Runoff = 130.53'
 Runout = 44.48'

P.I. STATION 18+57.20
 DELTA = 15°37'24.10" R+
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'

PHASE I
 Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane. Maintain local access at all times.

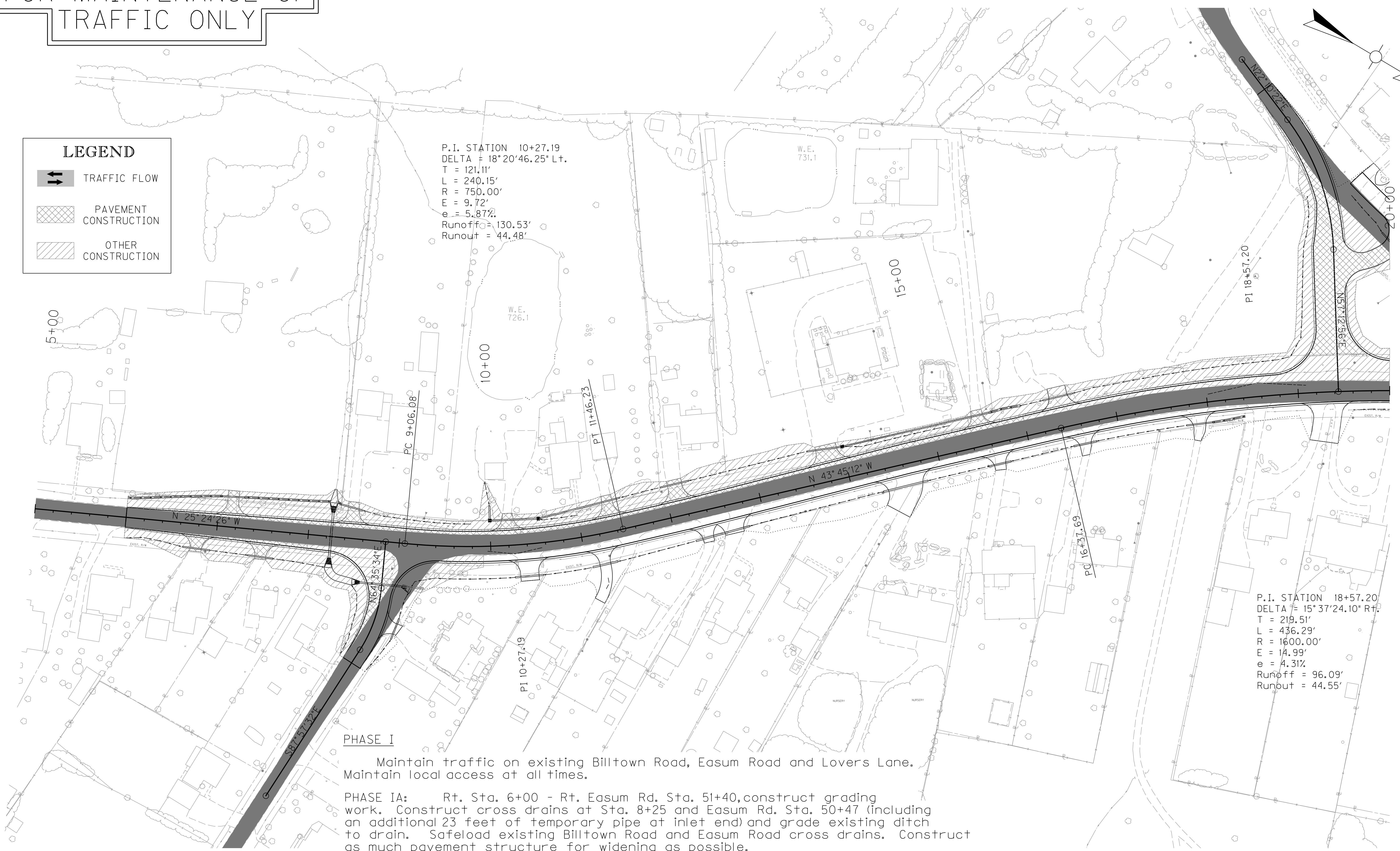
PHASE IA: Rt. Sta. 6+00 - Rt. Easum Rd. Sta. 51+40, construct grading work. Construct cross drains at Sta. 8+25 and Easum Rd. Sta. 50+47 (including an additional 23 feet of temporary pipe at inlet end) and grade existing ditch to drain. Safeload existing Billtown Road and Easum Road cross drains. Construct as much pavement structure for widening as possible.

PHASE IB: Lt. Sta. 6+00 to Lt. Sta. 20+00 construct grade and drain work and as much pavement structure construction for widening as possible. To the extent possible, construct grade, drain and pavement work for proposed Lovers Lane.

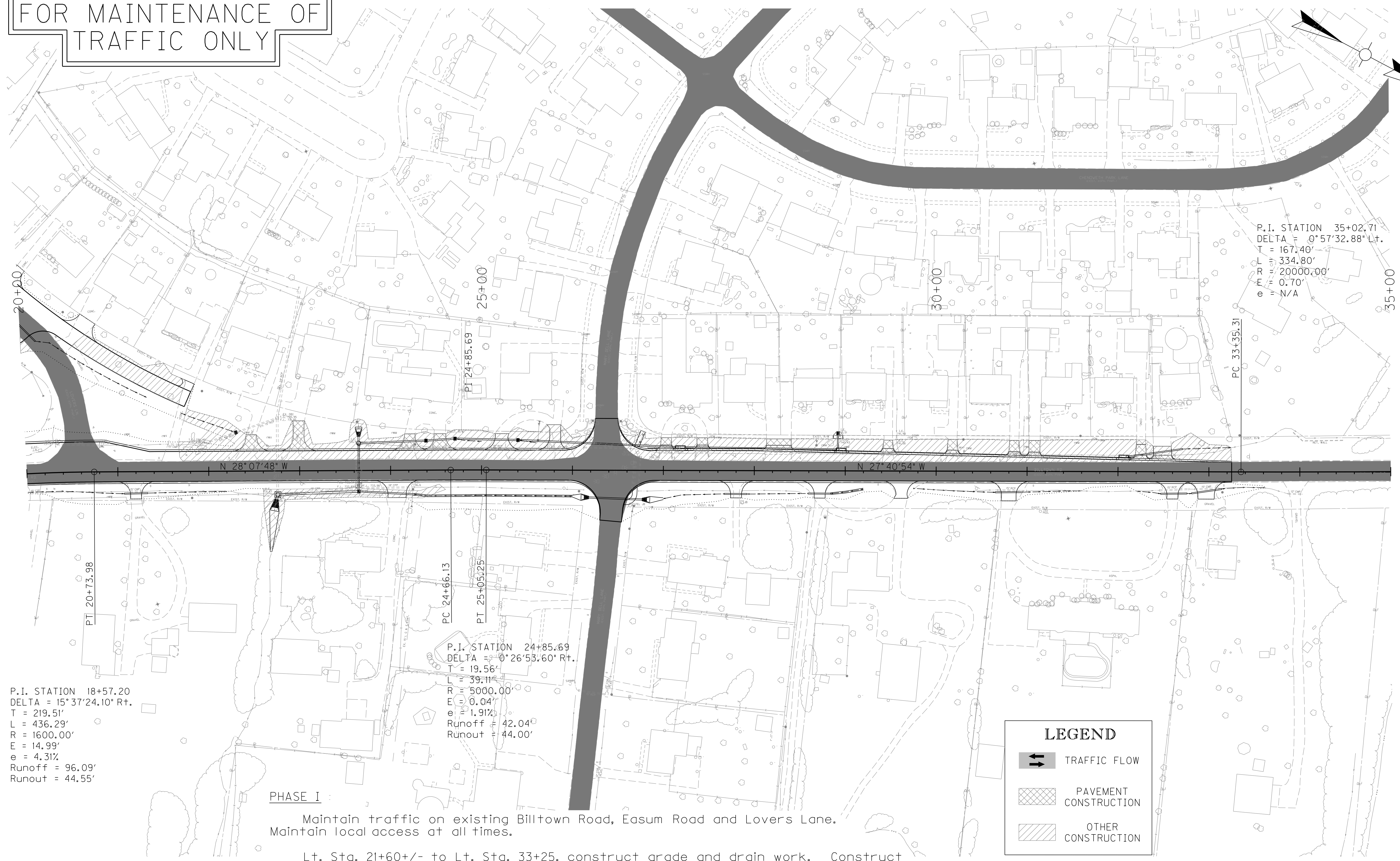
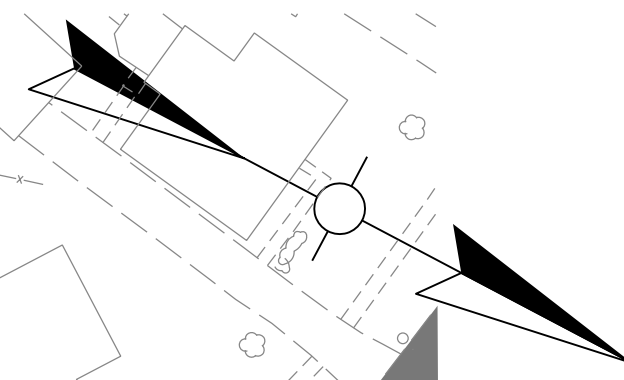


CONSTRUCTION PHASING
 STA. 5+00 TO STA. 20+00

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 USER: doug
 DATE PLOTTED: February 21, 2012
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 MicroStation v8.11.7.180



FOR MAINTENANCE OF
TRAFFIC ONLY



P.I. STATION 18+57.20
DELTA = 15°37'24.10" Rt.
T = 219.51'
L = 436.29'
R = 1600.00'
E = 14.99'
e = 4.31%
Runoff = 96.09'
Runout = 44.55'

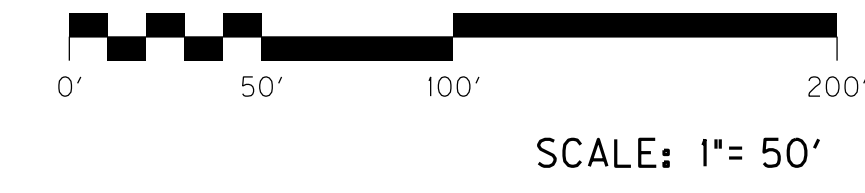
P.I. STATION 24+85.69
DELTA = 0°57'32.88" Lt.
T = 167.40'
L = 334.80'
R = 20000.00'
E = 0.70'
e = N/A
Runoff = 42.04'
Runout = 44.00'

PHASE I :
Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane.
Maintain local access at all times.

Lt. Sta. 21+60+/- to Lt. Sta. 33+25, construct grade and drain work. Construct concrete entrances. Construct grading on Frontage Road as shown. Construct cross drain at Sta. 23+65 and storm sewer system between Rt. Sta. 22+60 and Rt. Sta. 24+60, tying to existing ditch.

LEGEND

- TRAFFIC FLOW
- PAVEMENT CONSTRUCTION
- OTHER CONSTRUCTION

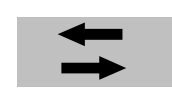
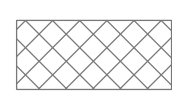
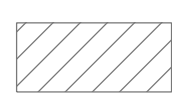


CONSTRUCTION PHASING
STA. 20+00 TO STA. 35+00

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 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

FOR MAINTENANCE OF
TRAFFIC ONLY

LEGEND

-  TRAFFIC FLOW
-  PAVEMENT CONSTRUCTION
-  OTHER CONSTRUCTION

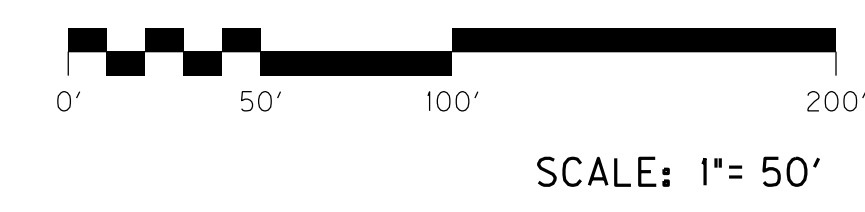
P.I. STATION 10+27.19
 DELTA = 18°20'46.25" L+
 T = 121.11'
 L = 240.15'
 R = 750.00'
 E = 9.72'
 e = 5.87%
 Runoff = 130.53'
 Runout = 44.48'

P.I. STATION 18+57.20
 DELTA = 15°37'24.10" R+
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'

PHASE II

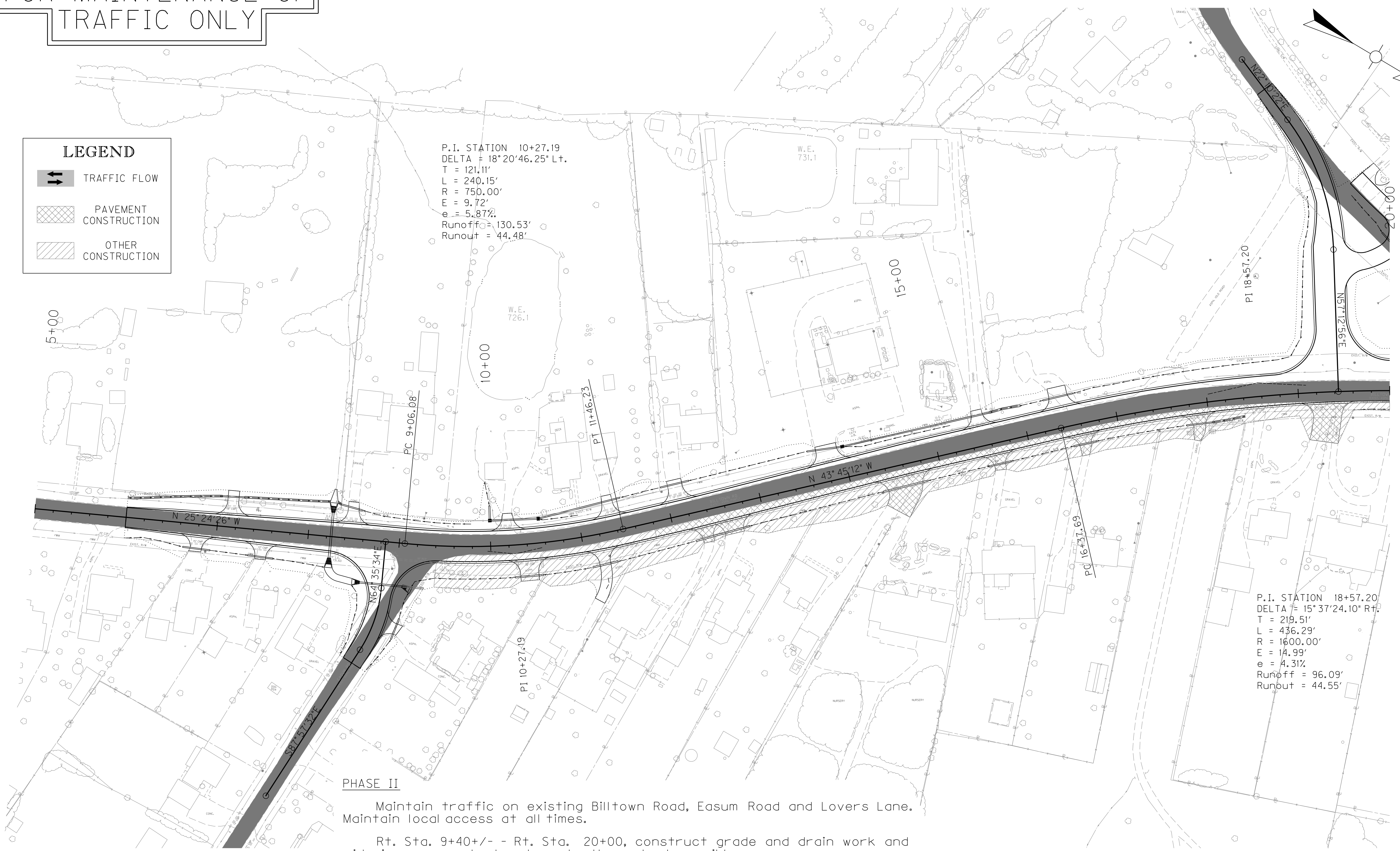
Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane.
 Maintain local access at all times.

Rt. Sta. 9+40+/- - Rt. Sta. 20+00, construct grade and drain work and
 widening pavement structure to the extent possible.

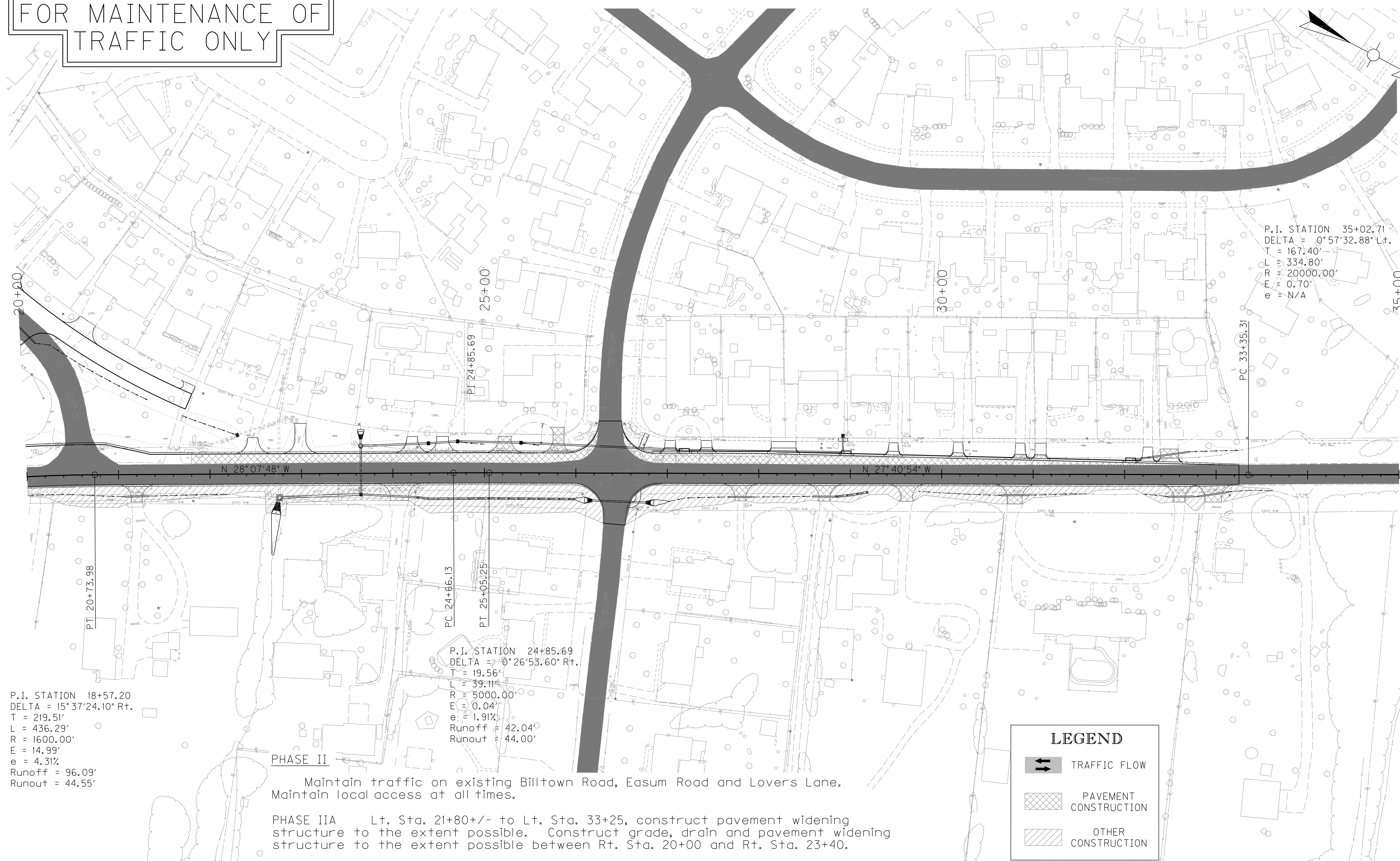
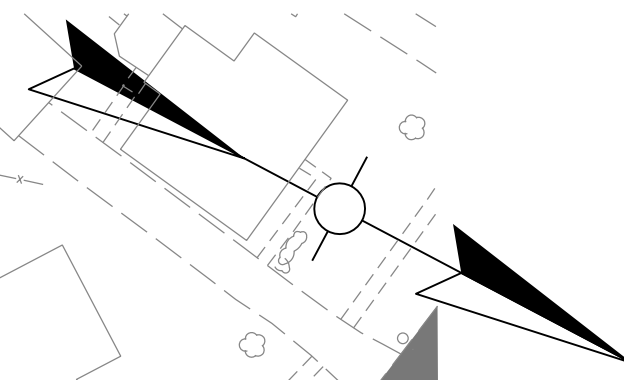


CONSTRUCTION PHASING
 STA. 5+00 TO STA. 20+00

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 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



FOR MAINTENANCE OF
TRAFFIC ONLY



P.I. STATION 35+02.71
 DELTA = 0°57'32.88" Lt.
 T = 167.40'
 L = 334.80'
 R = 20000.00'
 E = 0.70'
 e = N/A

N 28°07'48" W

N 27°40'54" W

P.I. STATION 18+57.20
 DELTA = 15°37'24.10" Rt.
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'

P.I. STATION 24+85.69
 DELTA = 0°26'53.60" Rt.
 T = 19.56'
 L = 39.11'
 R = 5000.00'
 E = 0.04'
 e = 1.91%
 Runoff = 42.04'
 Runout = 44.00'

PHASE II

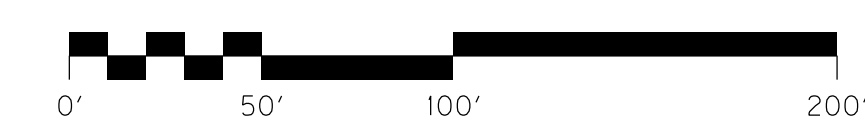
Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane.
 Maintain local access at all times.

PHASE IIA Lt. Sta. 21+80+/- to Lt. Sta. 33+25, construct pavement widening structure to the extent possible. Construct grade, drain and pavement widening structure to the extent possible between Rt. Sta. 20+00 and Rt. Sta. 23+40.

PHASE IIB Construct grade, drain and pavement widening structure to the extent possible between Rt. Sta. 23+40 and Rt. Sta. 33+63.

LEGEND

- TRAFFIC FLOW
- PAVEMENT CONSTRUCTION
- OTHER CONSTRUCTION



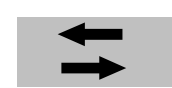
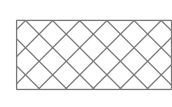
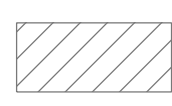
SCALE: 1"= 50'

CONSTRUCTION PHASING
 STA. 20+00 TO STA. 35+00

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 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

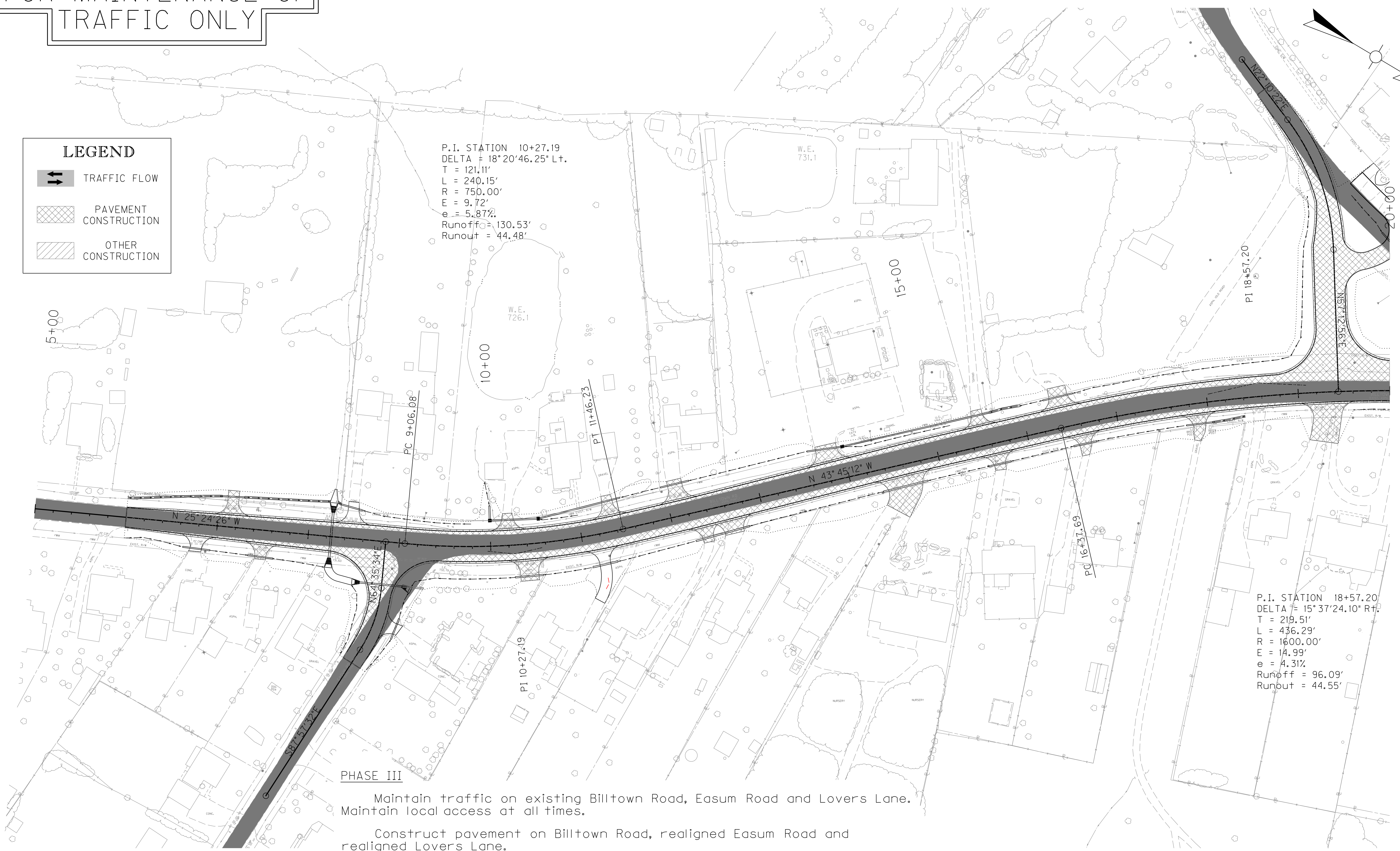
FOR MAINTENANCE OF
TRAFFIC ONLY

LEGEND

-  TRAFFIC FLOW
-  PAVEMENT CONSTRUCTION
-  OTHER CONSTRUCTION

P.I. STATION 10+27.19
 DELTA = 18°20'46.25" L+
 T = 121.11'
 L = 240.15'
 R = 750.00'
 E = 9.72'
 e = 5.87%
 Runoff = 130.53'
 Runout = 44.48'

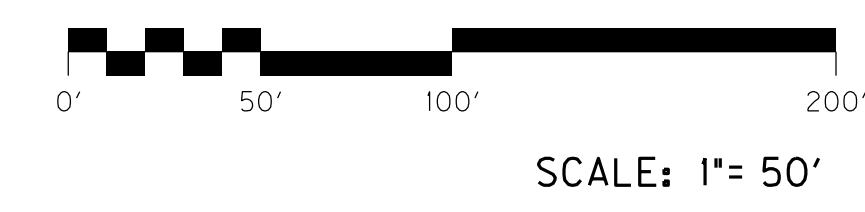
P.I. STATION 18+57.20
 DELTA = 15°37'24.10" R+
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'



PHASE III

Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane.
 Maintain local access at all times.

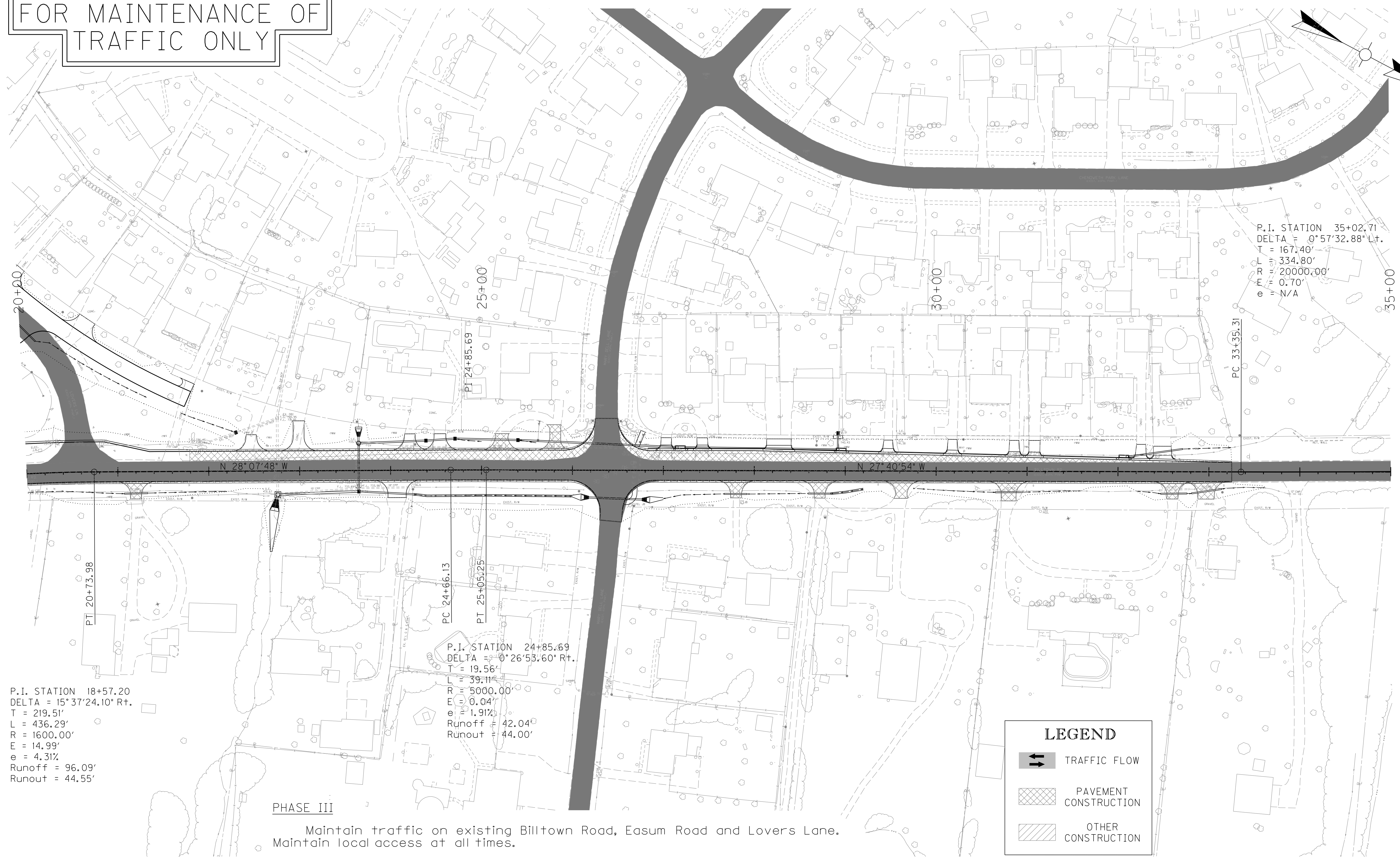
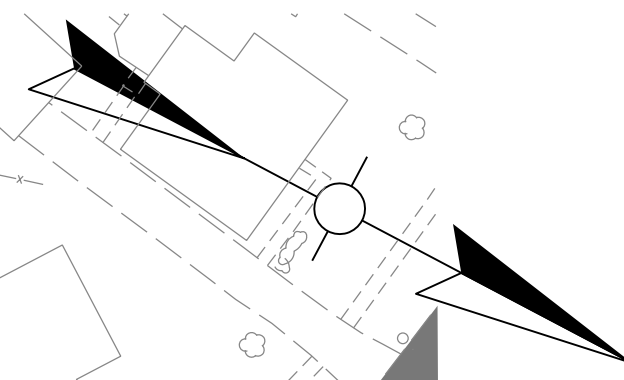
Construct pavement on Billtown Road, realigned Easum Road and
 realigned Lovers Lane.



CONSTRUCTION PHASING
 STA. 5+00 TO STA. 20+00

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DDN\EASUM-LOVERS\0805AMOTIC.DGN
 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

FOR MAINTENANCE OF
TRAFFIC ONLY



P.I. STATION 35+02.71
 DELTA = 0°57'32.88" Lt.
 T = 167.40'
 L = 334.80'
 R = 20000.00'
 E = 0.70'
 e = N/A

P.I. STATION 18+57.20
 DELTA = 15°37'24.10" Rt.
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'

P.I. STATION 24+85.69
 DELTA = 0°26'53.60" Rt.
 T = 19.56'
 L = 39.11'
 R = 5000.00'
 E = 0.04'
 e = 1.91%
 Runoff = 42.04'
 Runout = 44.00'

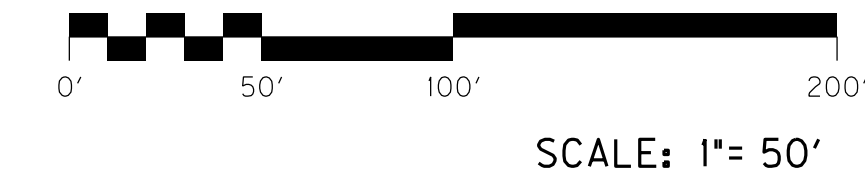
PHASE III

Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane.
 Maintain local access at all times.

Construct proposed pavement on Billtown Road and Mary Dell Drive.

LEGEND

- TRAFFIC FLOW
- PAVEMENT CONSTRUCTION
- OTHER CONSTRUCTION

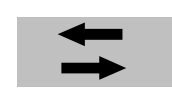
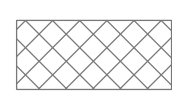
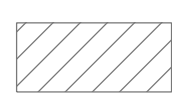


CONSTRUCTION PHASING
 STA. 20+00 TO STA. 35+00

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 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

FOR MAINTENANCE OF
TRAFFIC ONLY

LEGEND

-  TRAFFIC FLOW
-  PAVEMENT CONSTRUCTION
-  OTHER CONSTRUCTION

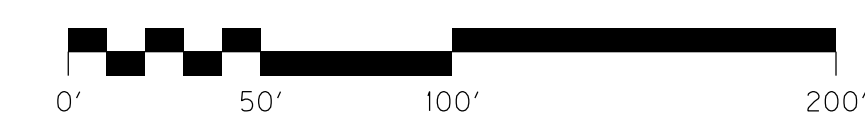
P.I. STATION 10+27.19
 DELTA = 18°20'46.25" L+
 T = 121.11'
 L = 240.15'
 R = 750.00'
 E = 9.72'
 e = 5.87%
 Runoff = 130.53'
 Runout = 44.48'

P.I. STATION 18+57.20
 DELTA = 15°37'24.10" R+
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'

PHASE IV

Maintain traffic on Billtown Road, realigned Easum Road and realigned Lovers Lane. Maintain local access at all times.

Construct remaining grade, drain and surfacing work on Easum Road, Frontage Road and Frontage Road Tie. Complete all remaining grade and drain construction.



SCALE: 1"= 50'

CONSTRUCTION PHASING
 STA. 5+00 TO STA. 20+00

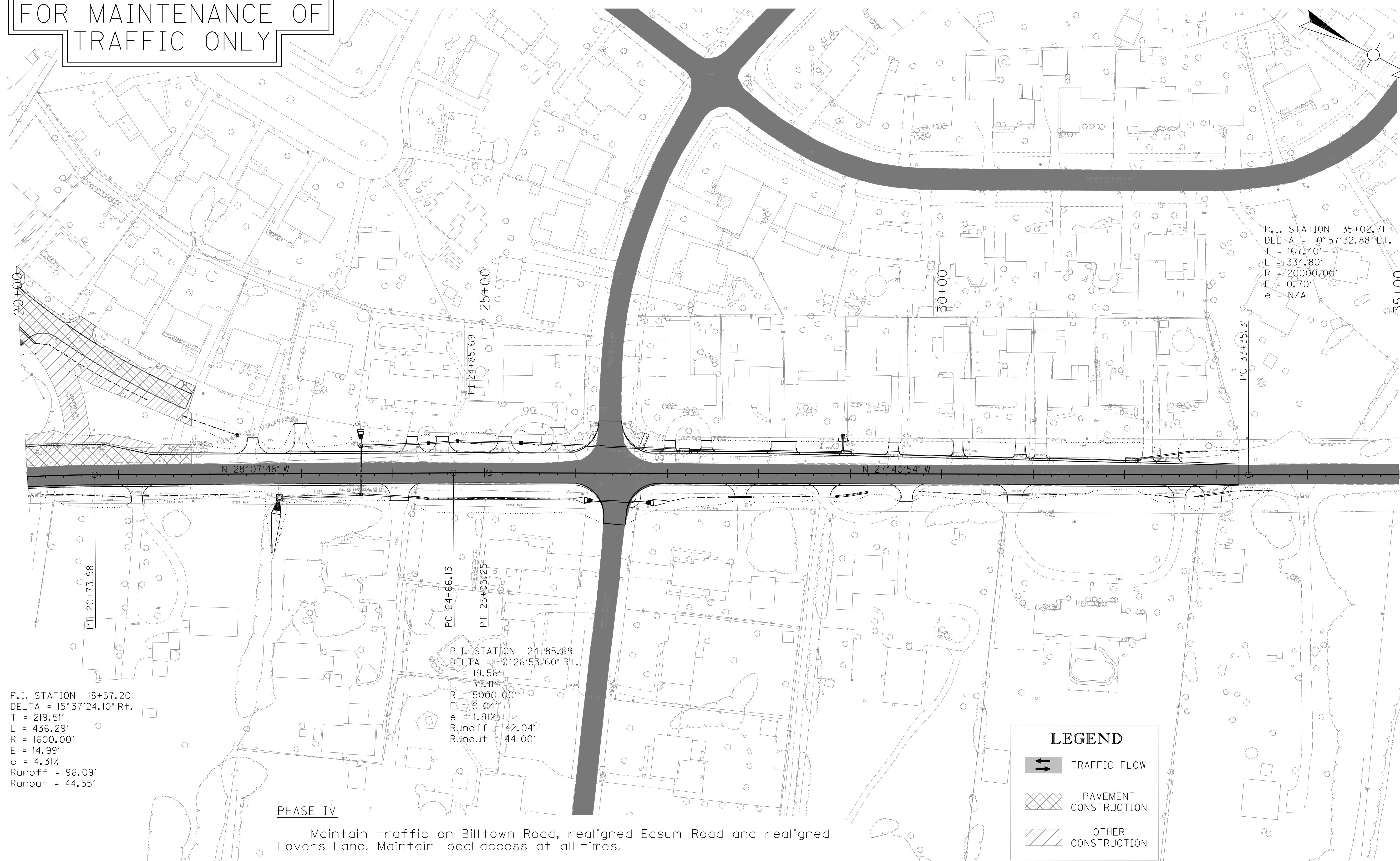
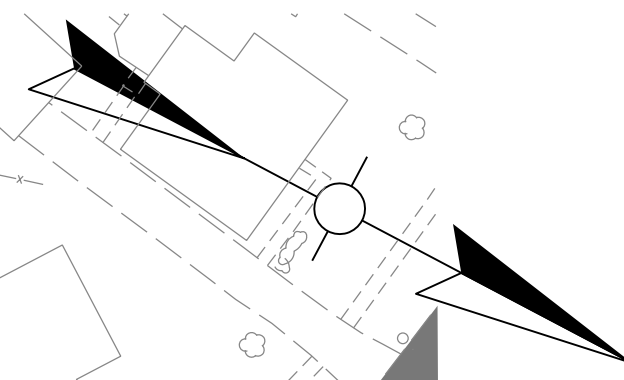
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USER: doug
 DATE PLOTTED: February 21, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

FOR MAINTENANCE OF
TRAFFIC ONLY



P.I. STATION 35+02.71
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 T = 167.40'
 L = 334.80'
 R = 20000.00'
 E = 0.70'
 e = N/A

P.I. STATION 18+57.20
 DELTA = 15°37'24.10" Rt.
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 e = 4.31%
 Runoff = 96.09'
 Runout = 44.55'

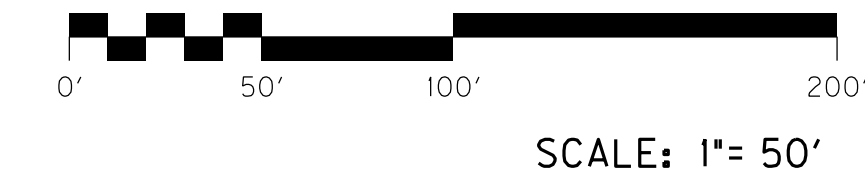
P.I. STATION 24+85.69
 DELTA = 0°26'53.60" Rt.
 T = 19.56'
 L = 39.11'
 R = 5000.00'
 E = 0.04'
 e = 1.91%
 Runoff = 42.04'
 Runout = 44.00'

PHASE IV
 Maintain traffic on Billtown Road, realigned Easum Road and realigned Lovers Lane. Maintain local access at all times.

Lt. Sta. 20+00 to Lt. Sta. 21+80 +/-, construct grade, drain and pavement widening. Construct remaining grade, drain and surfacing of Frontage Road and Frontage Road Tie. Complete any remaining grade and drain construction items.

LEGEND

- TRAFFIC FLOW
- PAVEMENT CONSTRUCTION
- OTHER CONSTRUCTION



CONSTRUCTION PHASING
 STA. 20+00 TO STA. 35+00

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DCN\EASUM-LOVERS\0805AM072D.DGN
 USER: doug
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

EROSION CONTROL NOTES

ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UP GRADIENT AREAS NOT DISTURBED (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL SUCH AS TEMPORARY MULCH.(ACRES).
- THE USE OF TEMPORARY MULCH IS ENCOURAGED.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEVICE USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOW EXIST, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE AFOREMENTED SILT BASIN OR TRAPS.

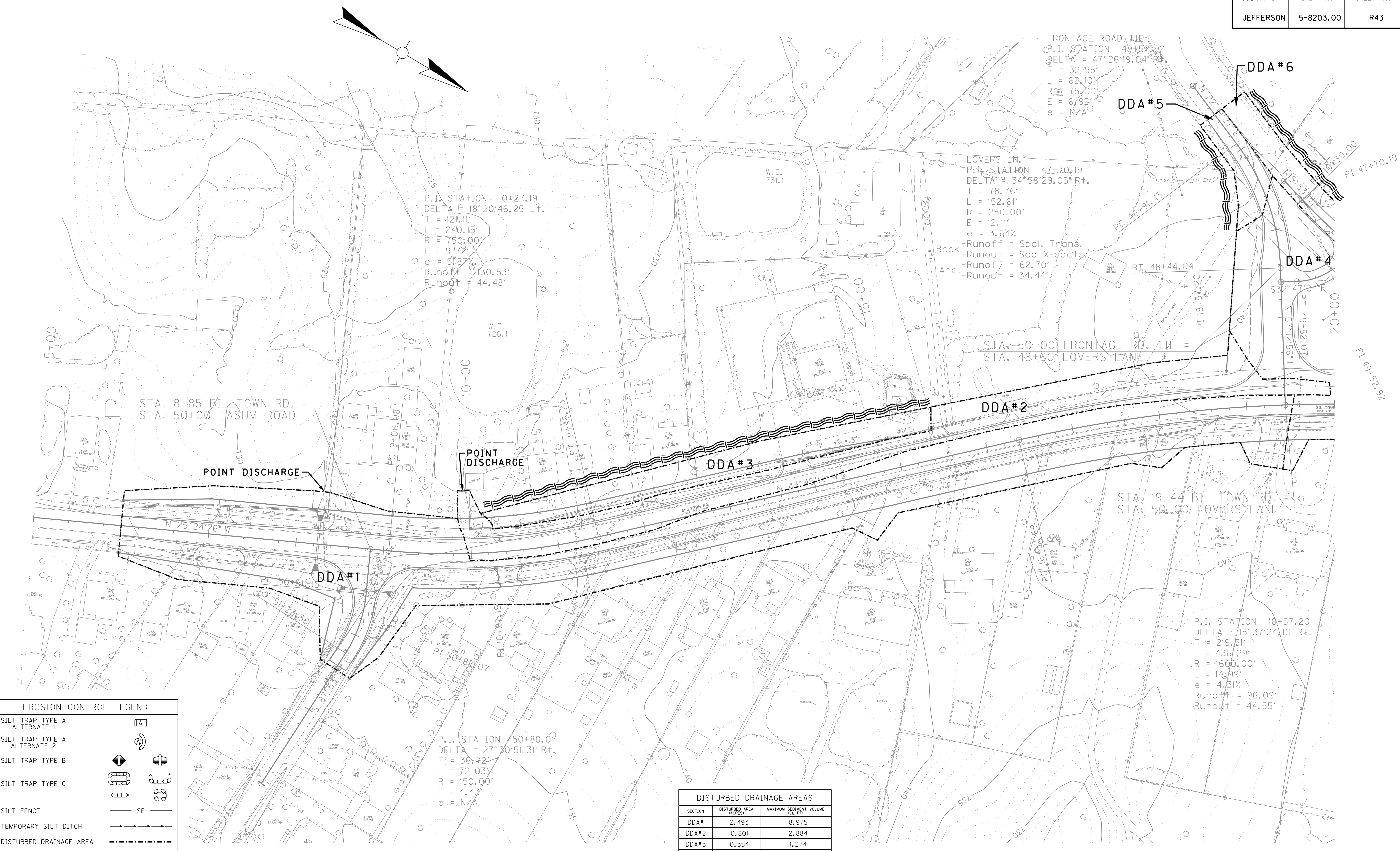
THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND RESIDENT ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 2004 LETTING.

EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER THEY BECOME ONE- HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE RESIDENT ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE RESIDENT ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\CONVEASUM-LOVERS\0805AEC1.DGN
 USER: ddog
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180

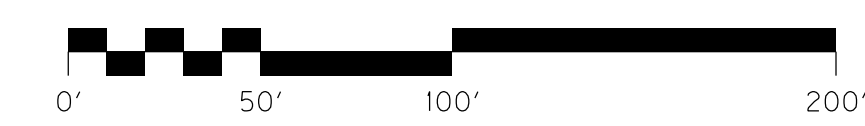


EROSION CONTROL LEGEND

SILT TRAP TYPE A ALTERNATE 1	
SILT TRAP TYPE A ALTERNATE 2	
SILT TRAP TYPE B	
SILT TRAP TYPE C	
SILT FENCE	SF
TEMPORARY SILT DITCH	
DISTURBED DRAINAGE AREA	
OVERLAND SHEET FLOW	
PROPOSED R/W	
PROPOSED EASEMENT	

DISTURBED DRAINAGE AREAS

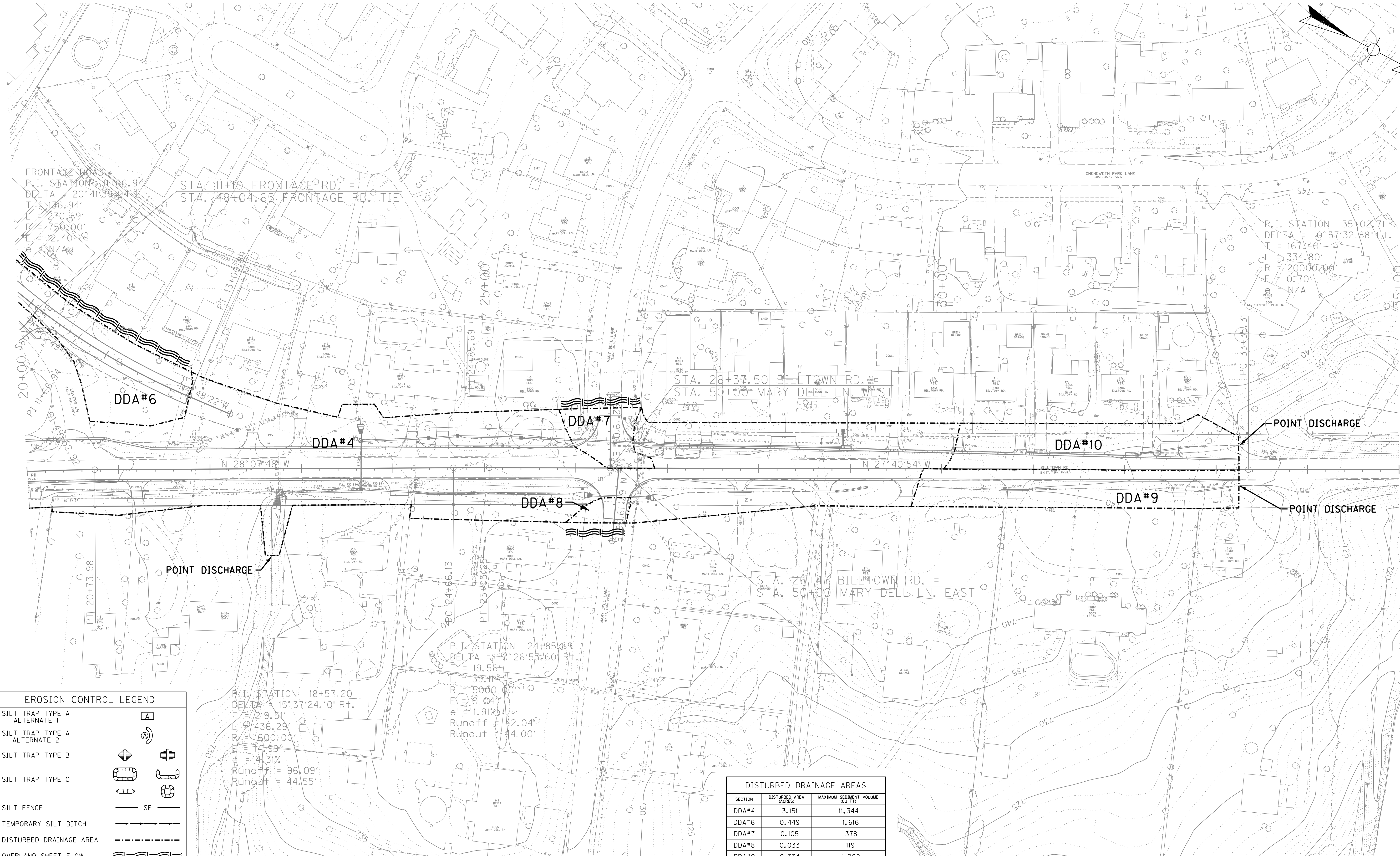
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA#1	2.493	8,975
DDA#2	0.801	2,884
DDA#3	0.354	1,274
DDA#4	3.151	11,344
DDA#5	0.102	367
DDA#6	0.449	1,616



SCALE: 1" = 50'

EROSION CONTROL SHEET
 STA. 5+00 TO STA. 20+00

FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DCN\EASUM-LOVERS\0805AEC2.DGN
 USER: ddog
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



FRONTAGE ROAD
 P.I. STATION 11+66.94
 DELTA = 20° 41' 39.91" Rt.
 T = 136.94'
 L = 270.89'
 R = 750.00'
 E = 12.40'
 Runoff = 42.04'
 Runout = 14.00'

STA. 11+10 FRONTAGE RD. =
 STA. 149+04.65 FRONTAGE RD. TIE

P.I. STATION 35+02.71
 DELTA = 9° 57' 32.88" Lt.
 T = 167.40'
 L = 334.80'
 R = 2000.00'
 E = 0.70'
 Runoff = N/A
 Runout = N/A

P.I. STATION 24+85.69
 DELTA = 9° 26' 53.60" Rt.
 T = 19.56'
 L = 39.114'
 R = 5000.00'
 E = 0.04'
 Runoff = 1.91%
 Runout = 42.04'

P.I. STATION 18+57.20
 DELTA = 15° 37' 24.10" Rt.
 T = 219.51'
 L = 436.29'
 R = 1600.00'
 E = 14.99'
 Runoff = 4.31%
 Runout = 96.09'
 Runout = 44.55'

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA#4	3.151	11,344
DDA#6	0.449	1,616
DDA#7	0.105	378
DDA#8	0.033	119
DDA#9	0.334	1,202
DDA#10	0.362	1,303

EROSION CONTROL LEGEND	
SILT TRAP TYPE A ALTERNATE 1	
SILT TRAP TYPE A ALTERNATE 2	
SILT TRAP TYPE B	
SILT TRAP TYPE C	
SILT FENCE	SF
TEMPORARY SILT DITCH	
DISTURBED DRAINAGE AREA	
OVERLAND SHEET FLOW	
PROPOSED R/W	
PROPOSED EASEMENT	



SCALE: 1" = 50'

EROSION CONTROL SHEET
 STA. 20+00 TO STA. 35+00

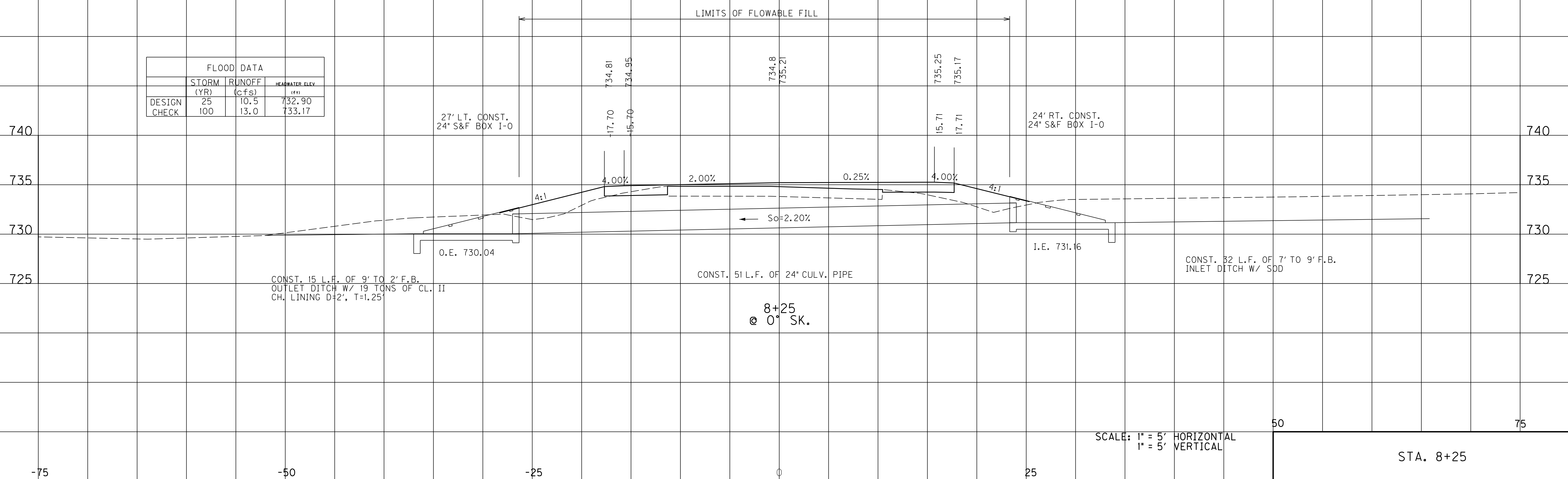
pH	COVER HEIGHT	24" CULVERT PIPE Lin. Ft.	24" S&F BOX I-0 each	CLASS II CHANNEL LINING tons	COUNTY OF	ITEM NO.	SHEET NO.
					JEFFERSON	5-8203.00	R45

DITCH EX.
Cu. Yd.

FILE NAME: F:\WORK\MORGAN_CO\PHASE2\DDN\30100XS.DGN
 USER: ryan
 DATE PLOTTED: May 6, 2011
 E-SHEET NAME:
 MicroStation v8.11.7.180

M	3	51	2	19	34
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FLOOD DATA			
	STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN	25	10.5	732.90
CHECK	100	13.0	733.17

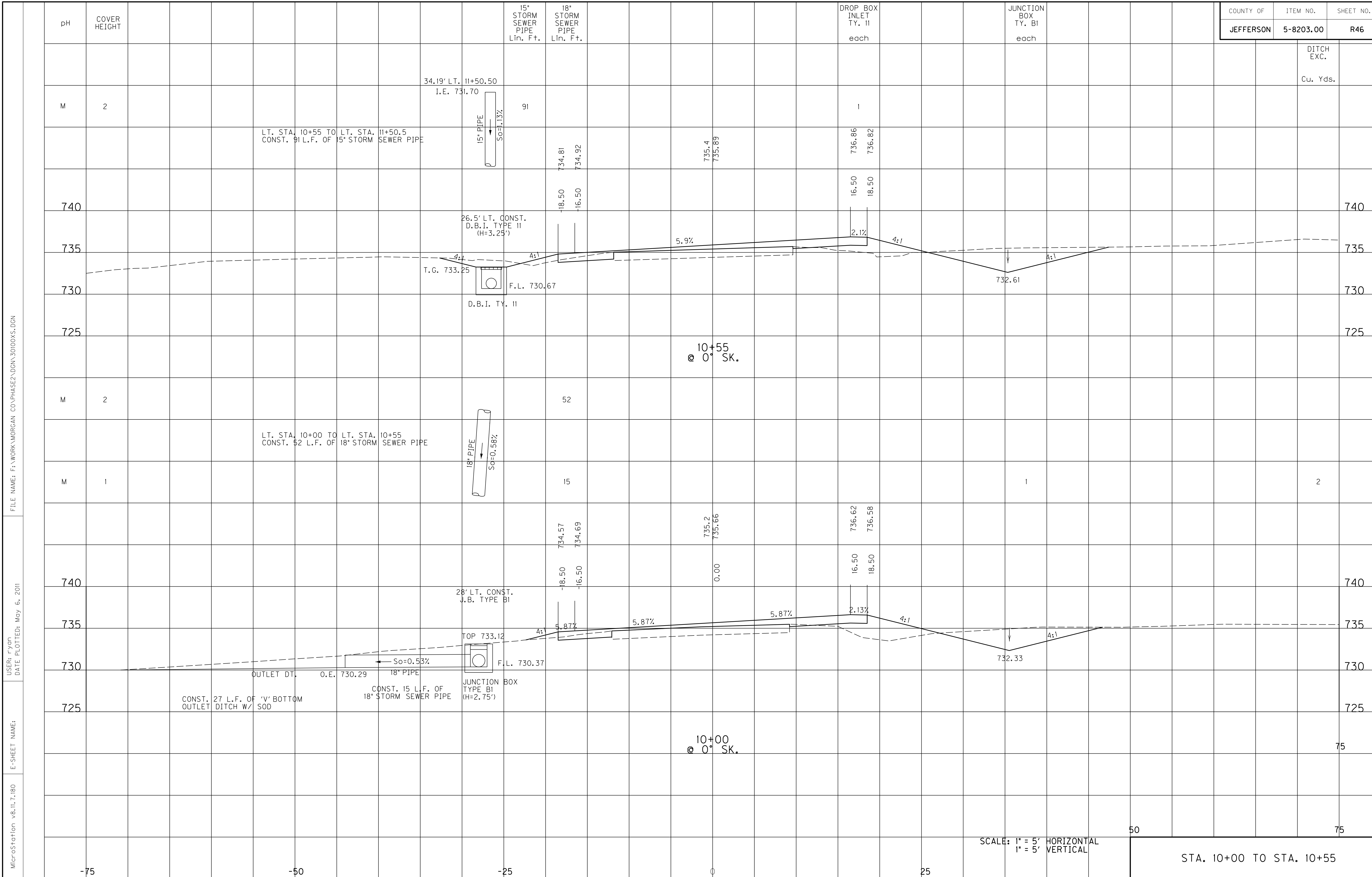


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

50
75
STA. 8+25

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R46

DITCH
EXC.
Cu. Yds.



FILE NAME: F:\WORK\MORGAN_CO\PHASE2\DDN\30100XS.DGN

USER: ryan
DATE PLOTTED: May 6, 2011

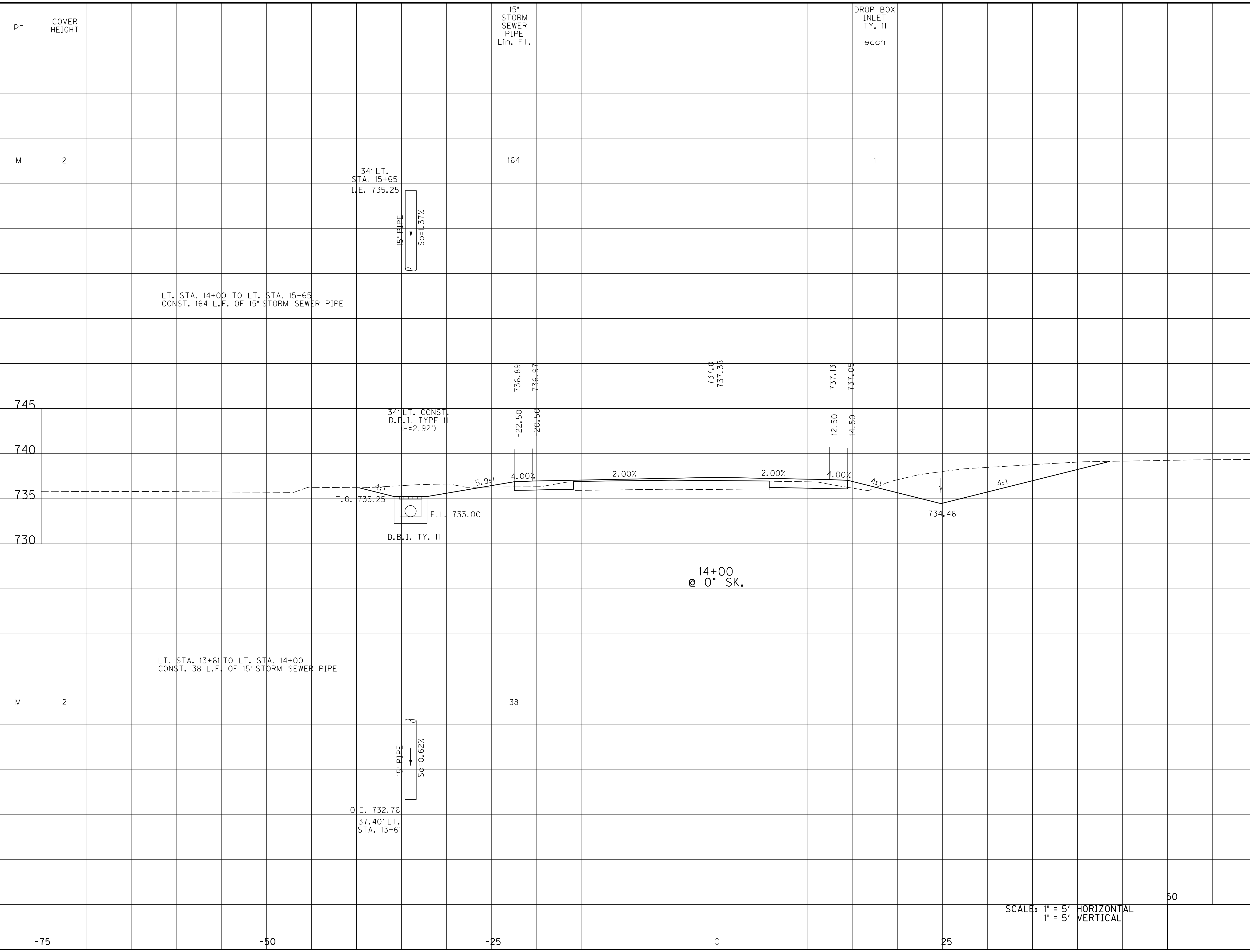
E-SHEET NAME:

MicroStation v8.11.7.180

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

STA. 10+00 TO STA. 10+55

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R47



FILE NAME: F:\WORK\MORGAN\CO-PHASE2\DDN\30100XS.DGN

USER: ryan
DATE PLOTTED: May 6, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

pH COVER HEIGHT

M 2

15" STORM SEWER PIPE
Lin. Ft.

164

34' LT. STA. 15+65
I.E. 735.25

15" PIPE
S₀=1.37%

LT. STA. 14+00 TO LT. STA. 15+65
CONST. 164 L.F. OF 15" STORM SEWER PIPE

745

740

735

730

34' LT. CONST. D.B.I. TYPE II (H=2.92')

T.G. 735.25

F.L. 733.00

D.B.I. TY. II

736.89

736.97

737.0

737.38

737.13

737.08

4:1

5.9:1

4.00%

2.00%

2.00%

4.00%

4:1

4:1

734.46

14+00 @ 0° SK.

LT. STA. 13+61 TO LT. STA. 14+00
CONST. 38 L.F. OF 15" STORM SEWER PIPE

M 2

38

15" PIPE
S₀=0.62%

O.E. 732.76

37.40' LT. STA. 13+61

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

50

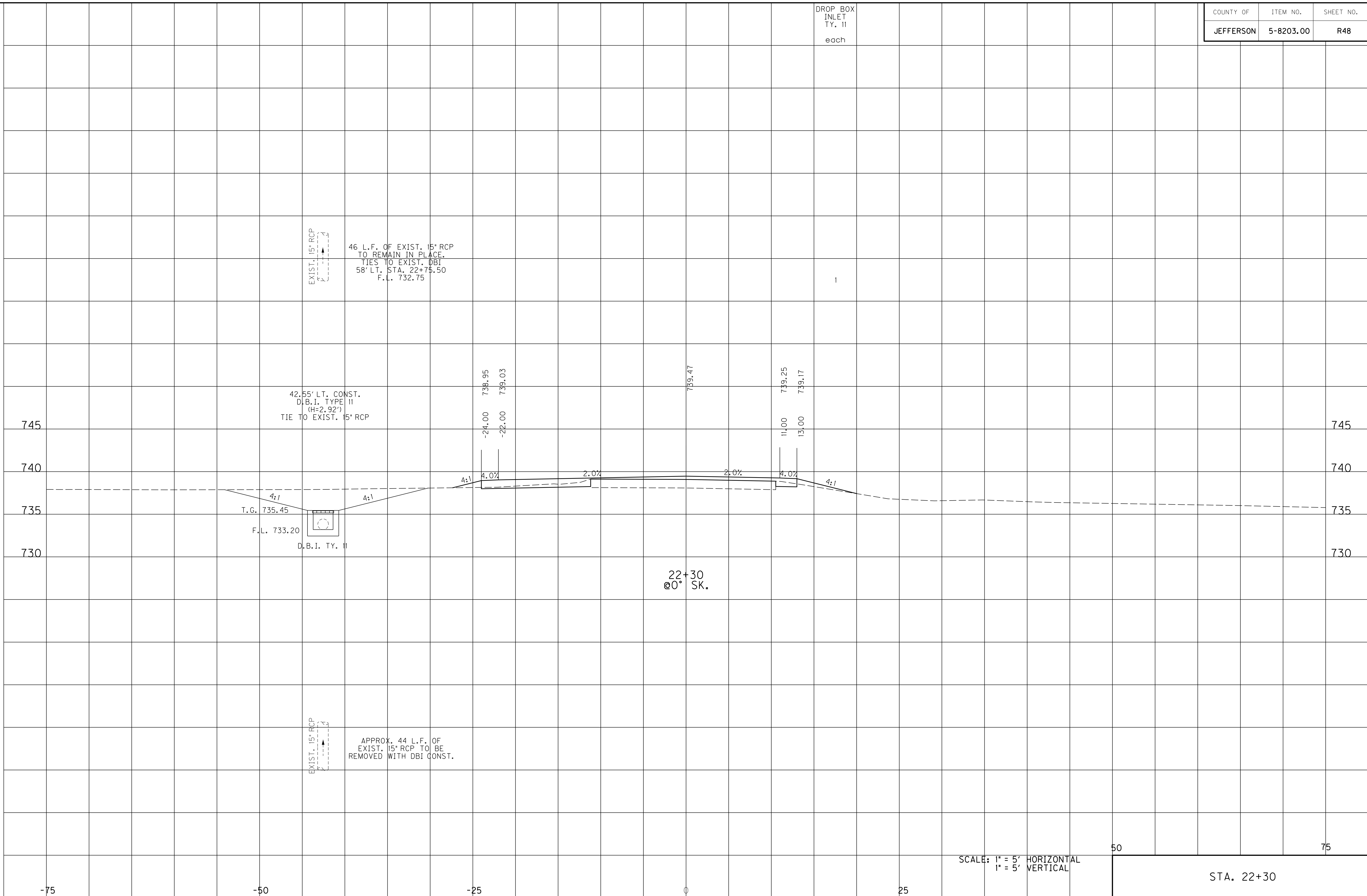
75

STA. 14+00

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R48

DROP BOX
INLET
TY. 11
each

MicroStation v8.11.7.180
 E-SHEET NAME:
 USER: ryan
 DATE PLOTTED: May 6, 2011
 FILE NAME: F:\WORK\MORGAN\CO-PHASE2\DDN\30100XS.DGN

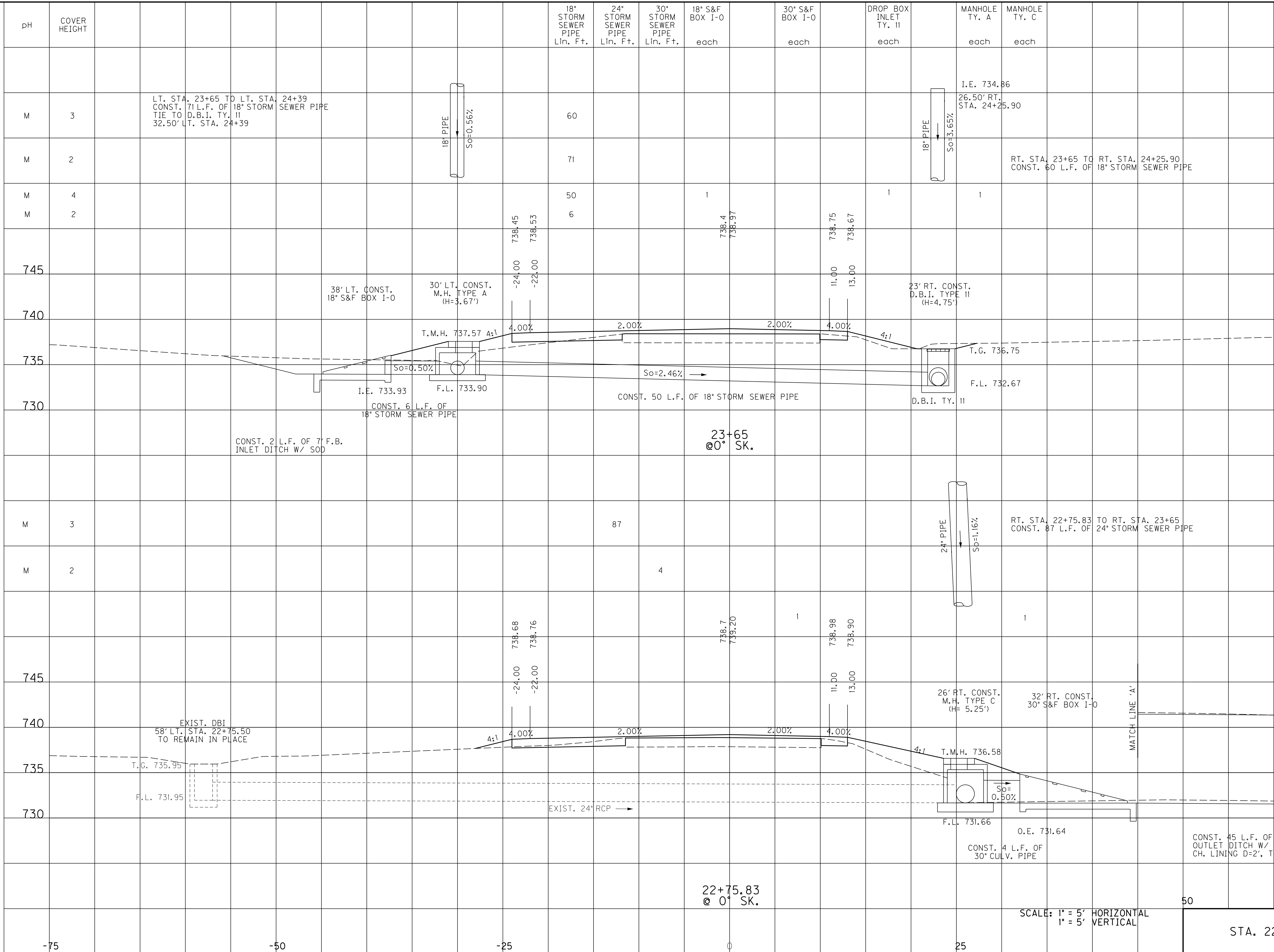


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

50

75

STA. 22+30



DITCH
EXC.
Cu. Yds.

LT. STA. 23+65 TO LT. STA. 24+39
CONST. 71 L.F. OF 18" STORM SEWER PIPE
TIE TO D.B.I. TY. II
32.50' LT. STA. 24+39

I.E. 734.86
26.50' RT.
STA. 24+25.90

RT. STA. 23+65 TO RT. STA. 24+25.90
CONST. 60 L.F. OF 18" STORM SEWER PIPE

738.45
738.53

738.4
738.97

738.75
738.67

38' LT. CONST.
18" S&F BOX I-O

30' LT. CONST.
M.H. TYPE A
(H=3.67')

23' RT. CONST.
D.B.I. TYPE II
(H=4.75')

T.M.H. 737.57 4:1

T.G. 736.75

I.E. 733.93

F.L. 733.90

F.L. 732.67

CONST. 50 L.F. OF 18" STORM SEWER PIPE

CONST. 2 L.F. OF 7' F.B.
INLET DITCH W/ SOD

23+65
@ 0° SK.

RT. STA. 22+75.83 TO RT. STA. 23+65
CONST. 87 L.F. OF 24" STORM SEWER PIPE

EXIST. DBI
58' LT. STA. 22+75.50
TO REMAIN IN PLACE

26' RT. CONST.
M.H. TYPE C
(H= 5.25')

32' RT. CONST.
30" S&F BOX I-O

4:1

T.M.H. 736.58

T.G. 735.95

F.L. 731.95

EXIST. 24" RCP

F.L. 731.66

O.E. 731.64

CONST. 4 L.F. OF
30" CULV. PIPE

CONST. 45 L.F. OF 10.50' TO 2' F.B.
OUTLET DITCH W/ 59 TONS OF CL. II
CH. LINING D=2', T=1.25'

22+75.83
@ 0° SK.

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

STA. 22+75.83 TO STA. 23+65

FILE NAME: F:\WORK\MORGAN\COMPASE2\DDN\30100XS.DGN

USER: ryan
DATE PLOTTED: May 6, 2011

E-SHEET NAME:

MicroStation v8.11.7.180

-75

-50

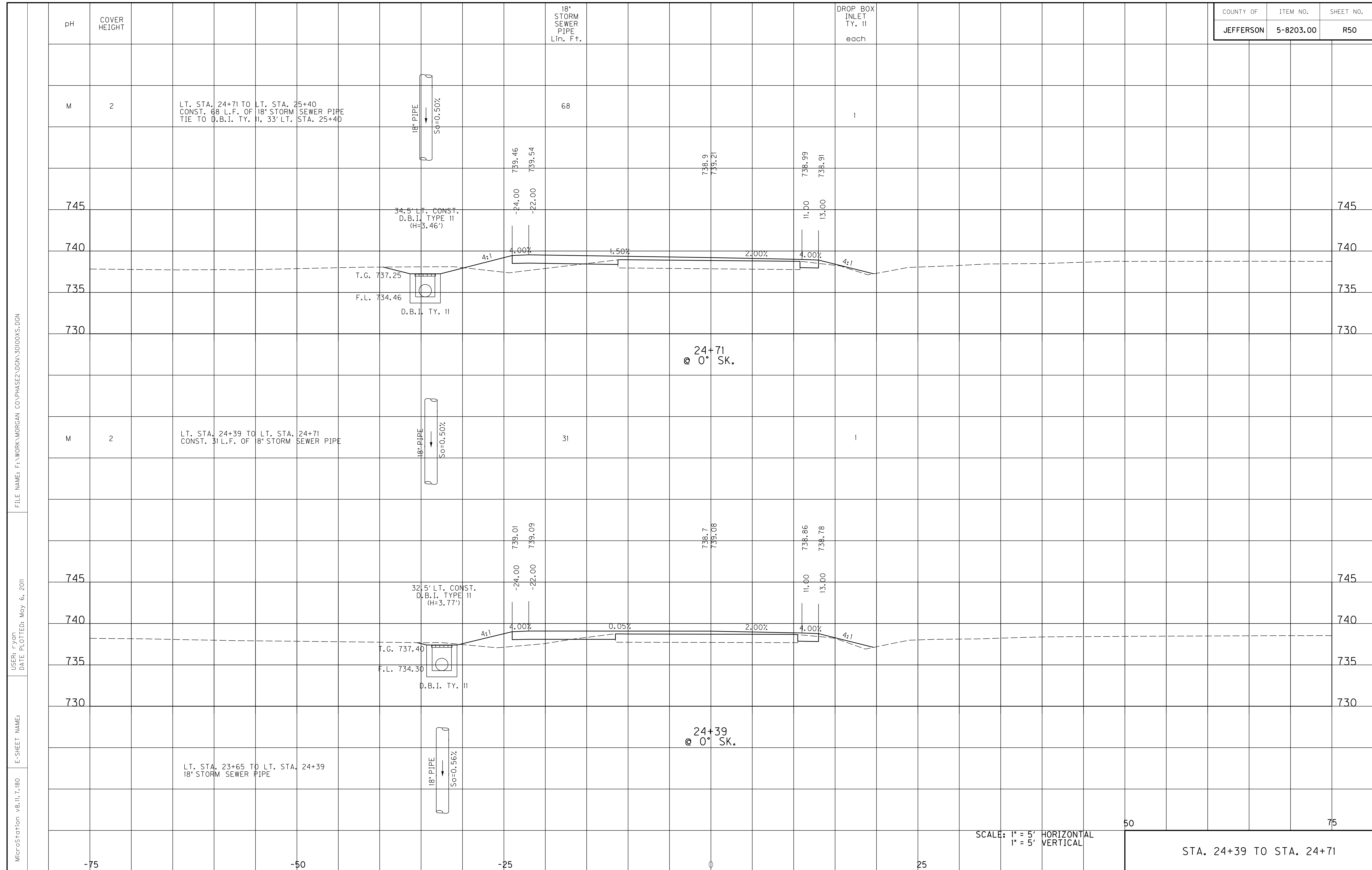
-25

0

25

50

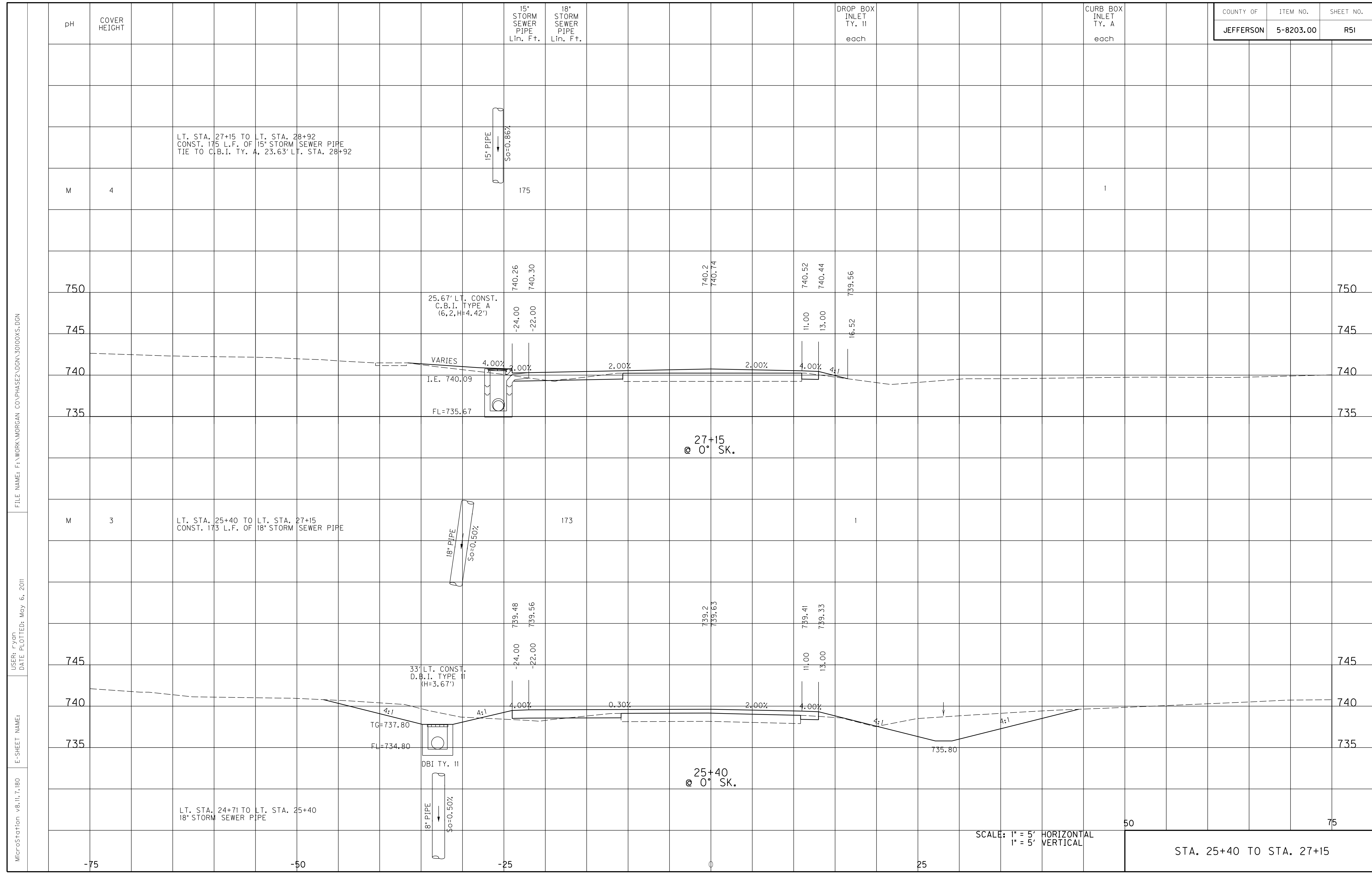
75



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

STA. 24+39 TO STA. 24+71

MicroStation v8.11.7.180 E-SHEET NAME: DATE PLOTTED: May 6, 2011 USER: ryan FILE NAME: F:\WORK\MORGAN_CO\PHASE2\DNV30100XS.DGN



LT. STA. 27+15 TO LT. STA. 28+92
 CONST. 175 L.F. OF 15" STORM SEWER PIPE
 TIE TO C.B.I. TY. A, 23.63' LT. STA. 28+92

25.67' LT. CONST.
 C.B.I. TYPE A
 (6.2, H=4.42')

LT. STA. 25+40 TO LT. STA. 27+15
 CONST. 173 L.F. OF 18" STORM SEWER PIPE

33' LT. CONST.
 D.B.I. TYPE 11
 (H=3.67')

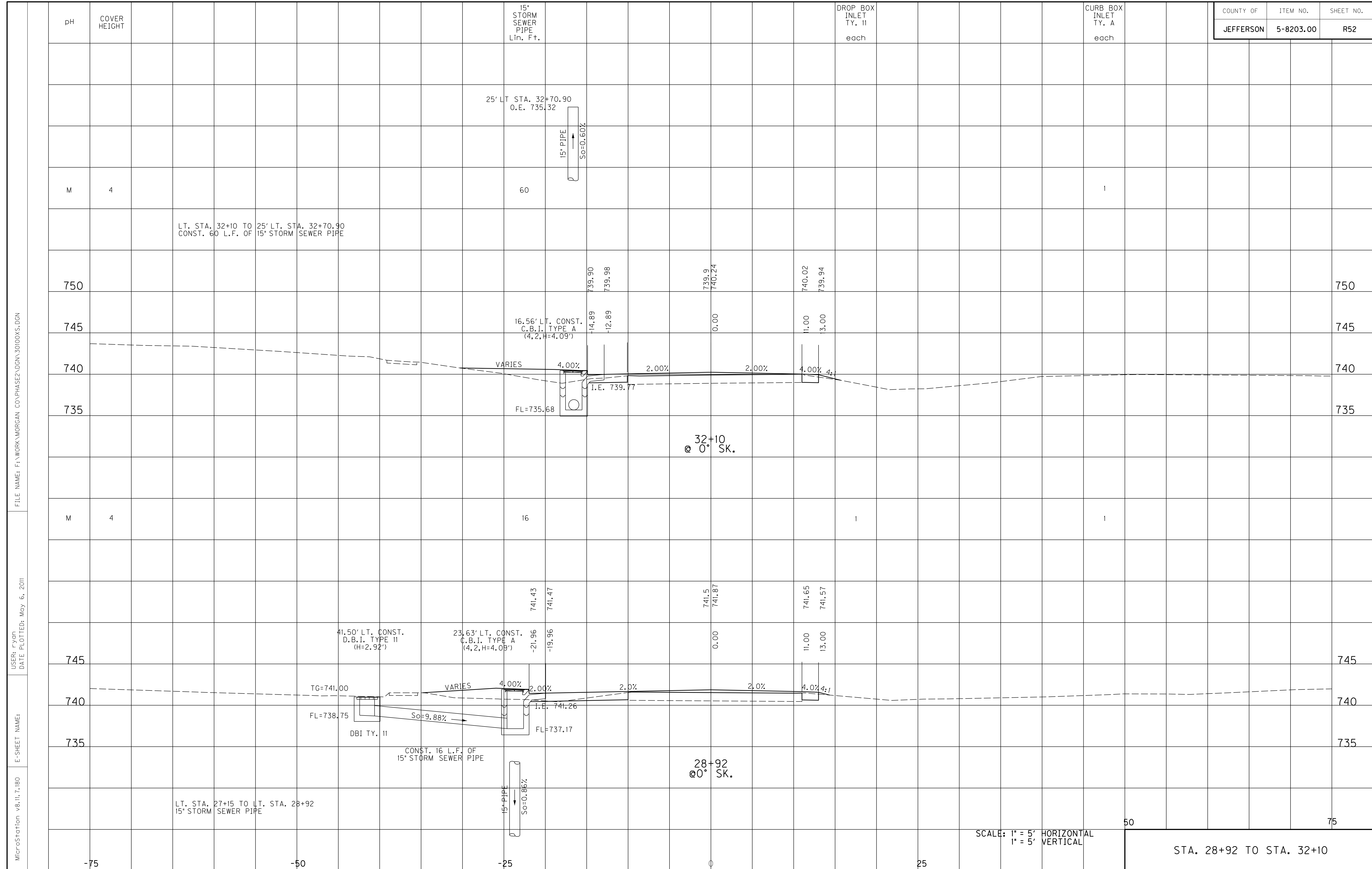
LT. STA. 24+71 TO LT. STA. 25+40
 18" STORM SEWER PIPE

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

STA. 25+40 TO STA. 27+15

FILE NAME: F:\WORK\MORGAN\CPHASE2\DNV\30100XS.DGN
 USER: ryan
 DATE PLOTTED: May 6, 2011
 E-SHEET NAME:
 MicroStation v8.11.7.180

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8203.00	R52



FILE NAME: F:\WORK\MORGAN\CO\PHASE2\DDN\30100XS.DGN

USER: ryan
DATE PLOTTED: May 6, 2011

E-SHEET NAME:

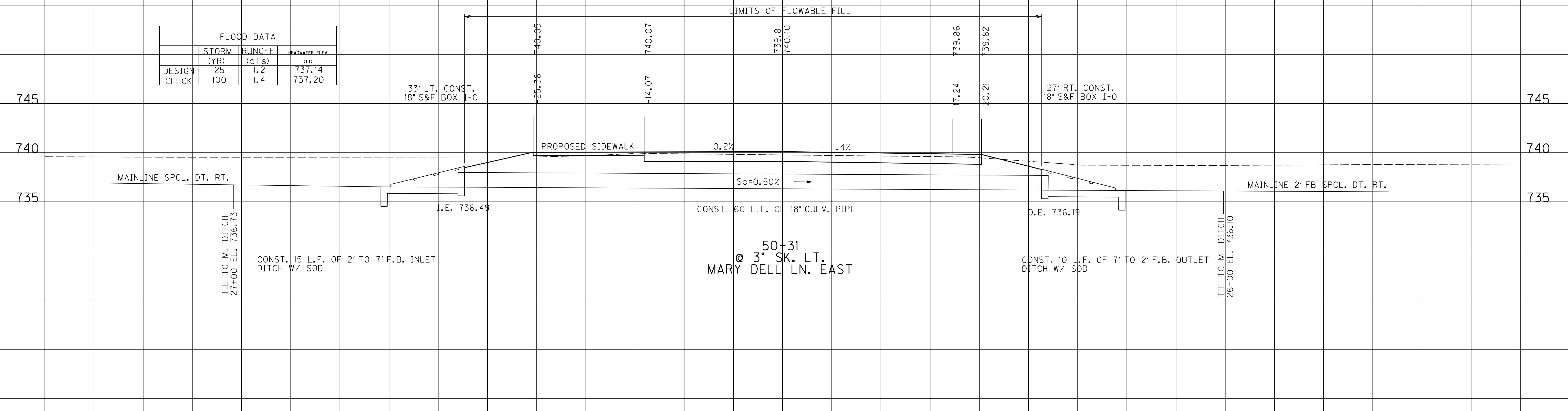
MicroStation v8.11.7.180

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

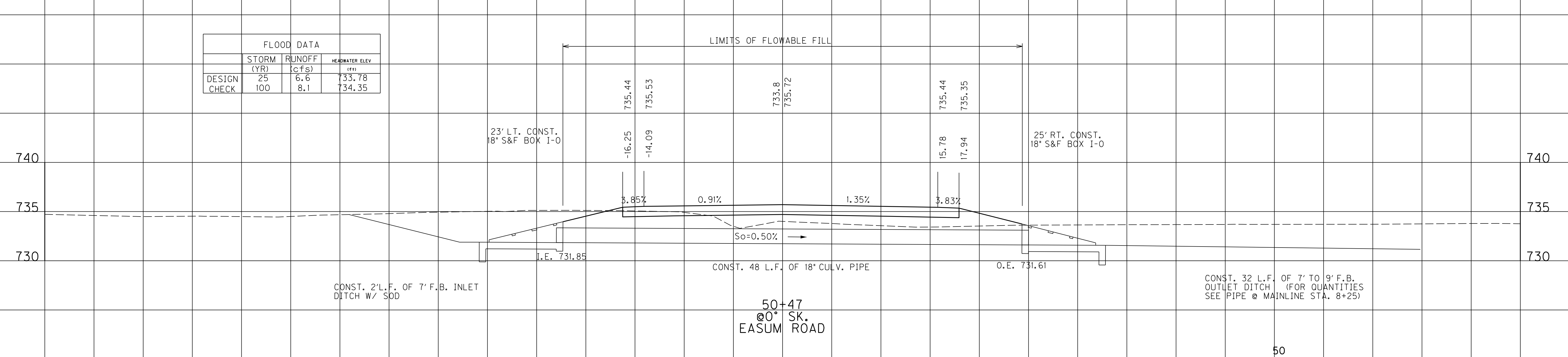
STA. 28+92 TO STA. 32+10

pH	COVER HEIGHT	18" CULVERT PIPE Lin. Ft.	24" CULVERT PIPE Lin. Ft.	15" STORM SEWER PIPE Lin. Ft.	18" STORM SEWER PIPE Lin. Ft.	24" STORM SEWER PIPE Lin. Ft.	30" STORM SEWER PIPE Lin. Ft.	18" S&F BOX I-0 each	24" S&F BOX I-0 each	30" S&F BOX I-0 each	DROP BOX INLET TY. II each	MANHOLE TY. A each	MANHOLE TY. C each	JUNCTION BOX TY. BI 18" each	CURB BOX INLET TY. A each	DITCH EXC. Cu. Yds.		
PROJECT	TOTALS	108	51			544	526	87	4	5	2	1	8	1	1	1	3	63
M	2	60								2								19

FLOOD DATA		
STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN 25	1.2	737.14
CHECK 100	1.4	737.20



FLOOD DATA		
STORM (YR)	RUNOFF (cfs)	HEADWATER ELEV (ft)
DESIGN 25	6.6	733.78
CHECK 100	8.1	734.35

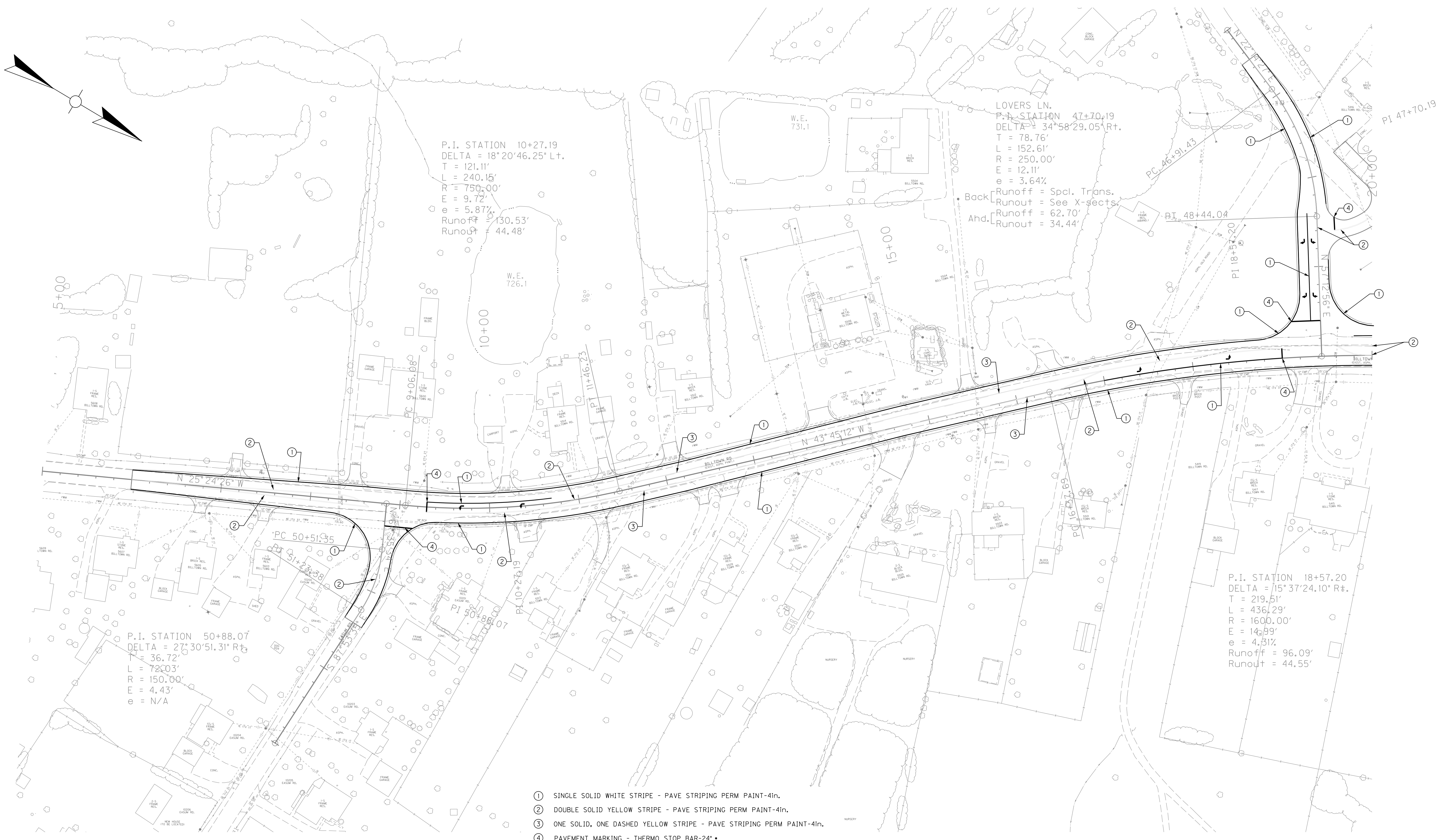


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

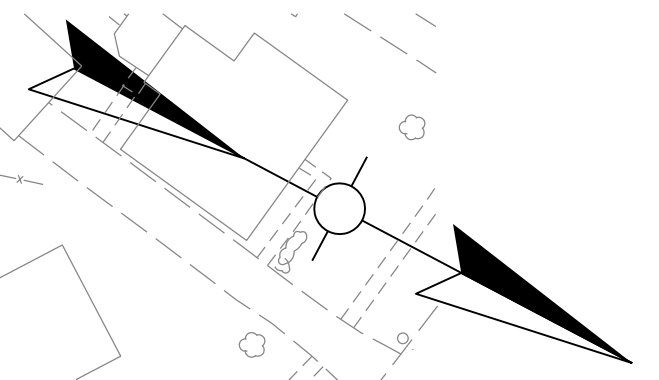
50
STA. 50+47 EASUM RD.
STA. 50+37 MARY DELL LN. EAST

FILE NAME: F:\WORK\MORGAN\COMPHASE2\DDN\30100XS.DGN
 USER: ryan
 DATE PLOTTED: May 6, 2011
 E-SHEET NAME:
 MicroStation v8.11.7.180

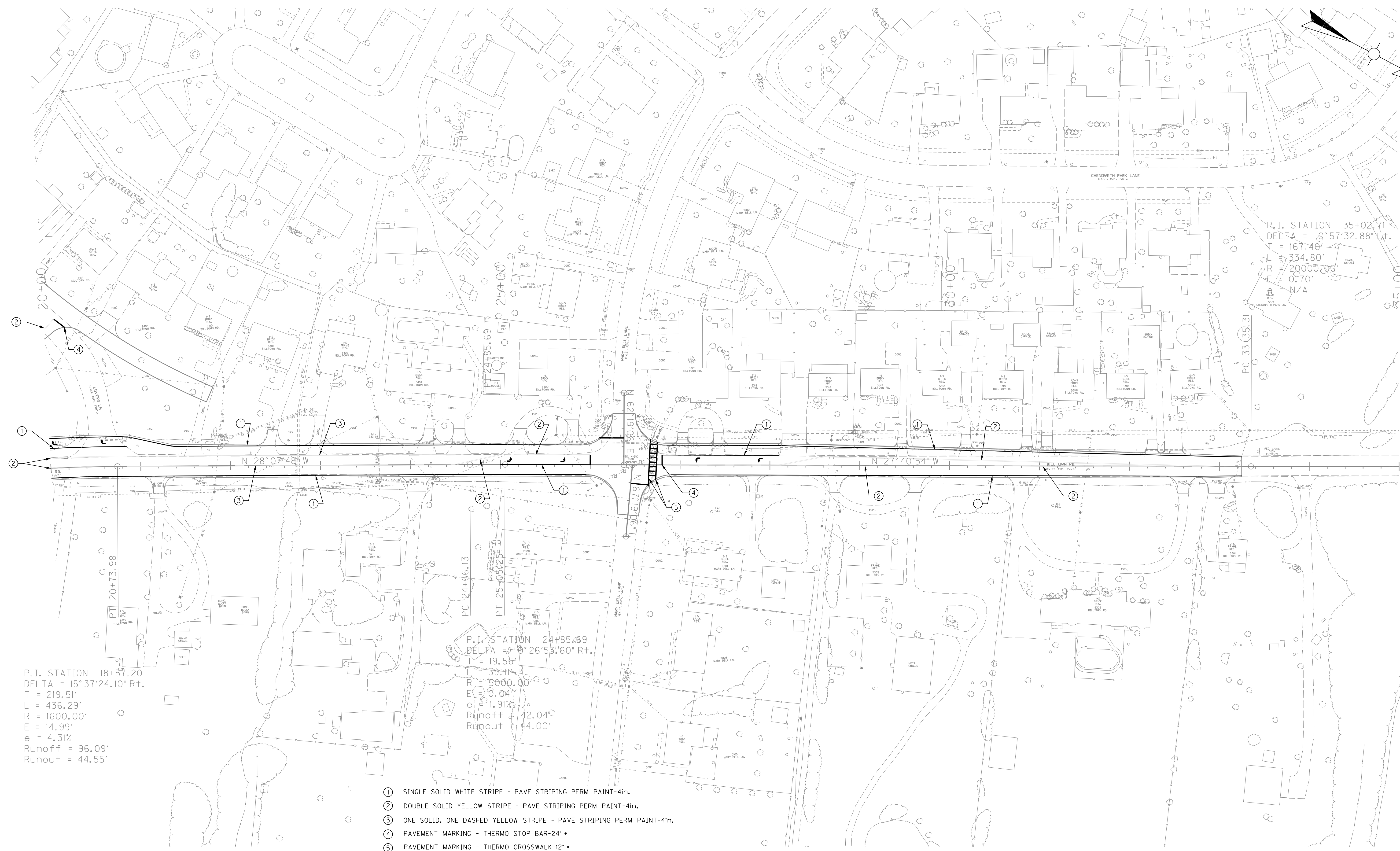
FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DN\EASUM-LOVERS\0805ASTRIPING.DGN
 USER: jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



PAVEMENT STRIPING PLAN
 STA. 5+00 TO STA. 20+00



FILE NAME: F:\WORK\JEFFERSON CO\PHASE II\DON\EASUM-LOVERS\0805ASTRIPING2.DGN
 USER: jim
 DATE PLOTTED: February 21, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.180



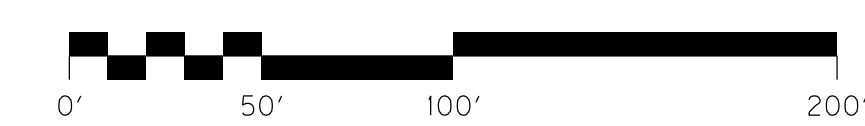
P.I. STATION 18+57.20
 DELTA = 15° 37' 24.10\"/>

P.I. STATION 24+85.69
 DELTA = 9° 26' 53.60\"/>

P.I. STATION 35+02.71
 DELTA = 9° 57' 32.88\"/>

- ① SINGLE SOLID WHITE STRIPE - PAVE STRIPING PERM PAINT-4in.
- ② DOUBLE SOLID YELLOW STRIPE - PAVE STRIPING PERM PAINT-4in.
- ③ ONE SOLID, ONE DASHED YELLOW STRIPE - PAVE STRIPING PERM PAINT-4in.
- ④ PAVEMENT MARKING - THERMO STOP BAR-24\"/>

• - LOCATION OF STOP BARS AND CROSSWALKS SHALL BE APPROVED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION
 NOTE : SEE GENERAL SUMMARY FOR PAVEMENT MARKING QUANTITIES



SCALE: 1"= 50'

PAVEMENT STRIPING PLAN
 STA. 20+00 TO STA. 35+00