



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

December 6, 2012

CALL NO. 206
CONTRACT ID NO. 121380
ADDENDUM # 1

Subject: Fayette County, 121GR12D080-NH
Letting December 14, 2012

- (1) Revised - Plan Sheets - R2e, R2f, R2g, R2i, R2u, R2v, R60, T1, T12, T13, T14, T15, & T16
- (2) Added - Note - Page 24(a) of 131
- (3) Revised - Material Summary - Pages 72-81 of 131
- (4) Revised - Bid Items - Pages 122-131 of 131

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

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

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

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

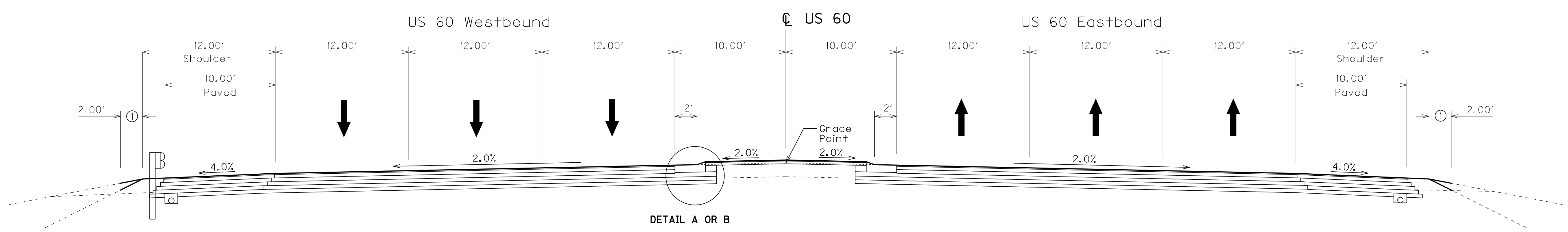
RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

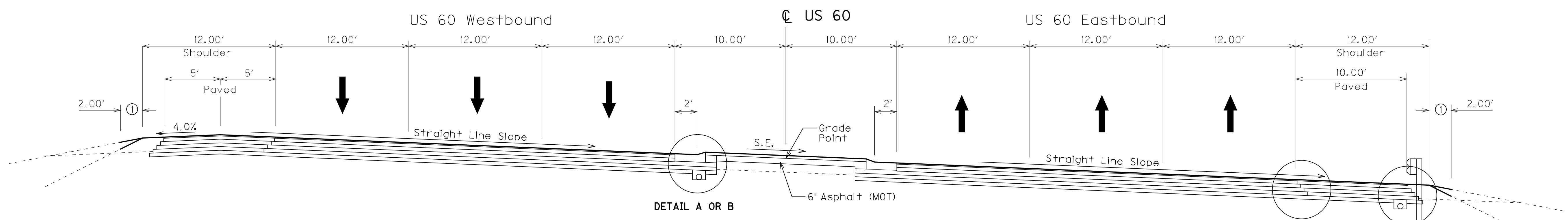
US 60 TYPICAL SECTIONS

6 LANE ROADWAY - ASPHALT ALTERNATE - FULL DEPTH REPLACEMENT SECTIONS

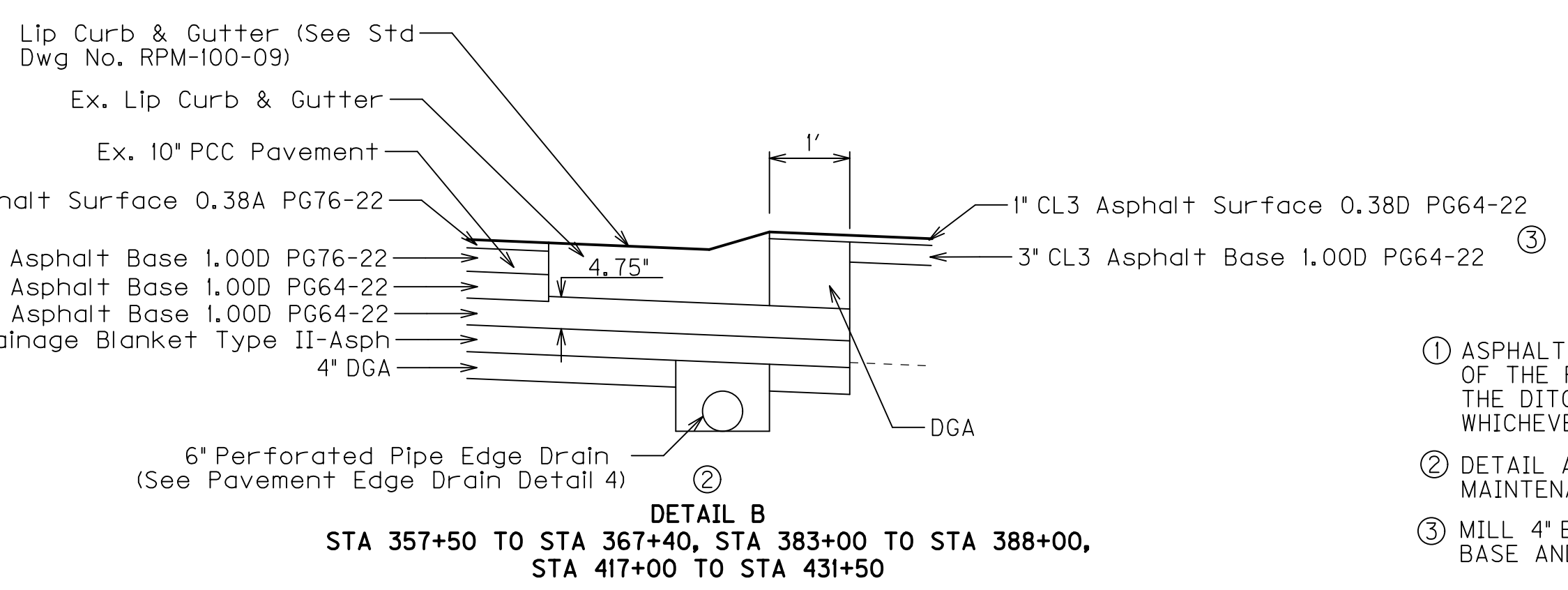
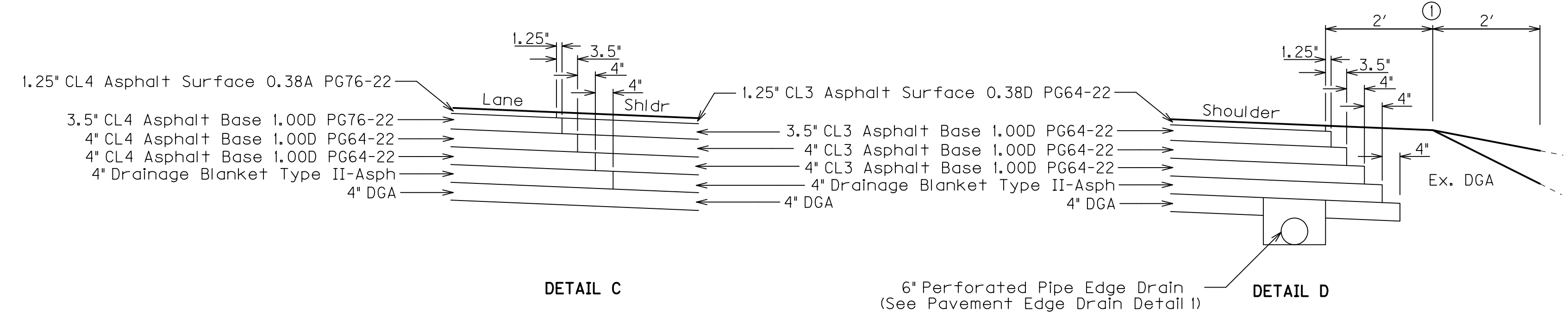
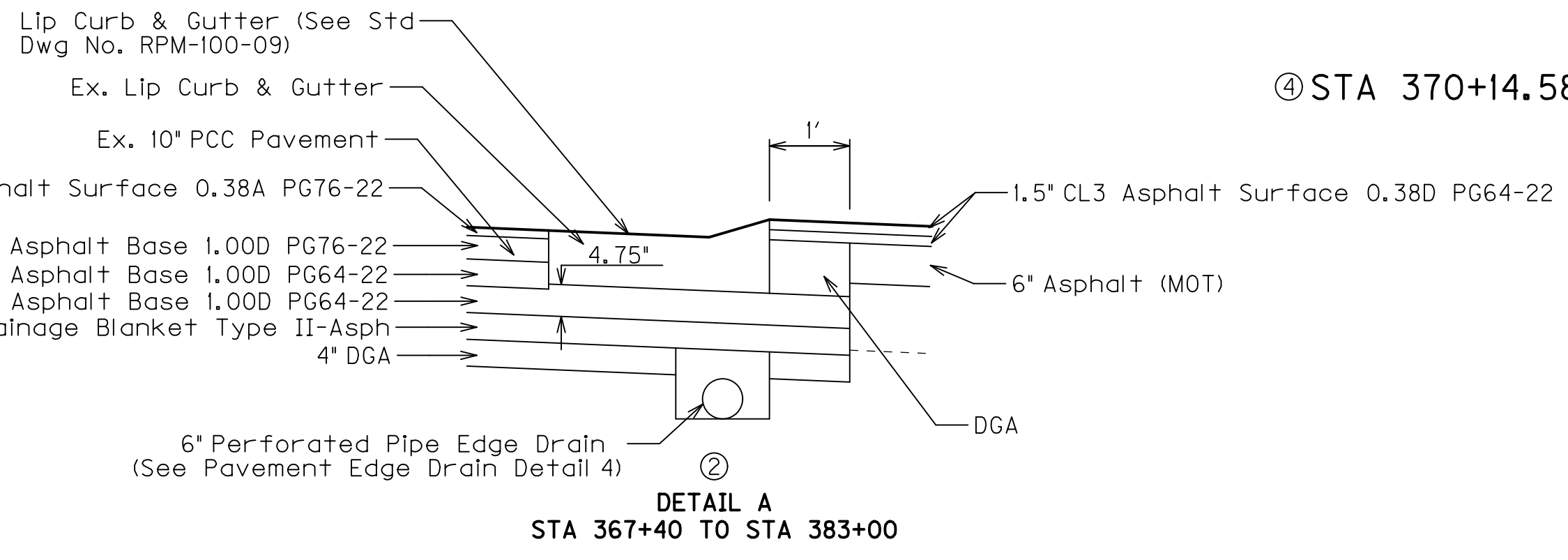


NORMAL SECTION
 STA 357+50 TO STA 370+14.58, STA 417+00 TO STA 422+31.03, STA 429+35.63 TO STA 431+50

NOTE: SEE 'NARROW MEDIAN DETAIL' FOR MEDIAN PAVEMENT TYPICAL WHERE THE PAVED PORTION OF THE MEDIAN IS 4' OR LESS.



SUPERELEVATED SECTION
 STA 370+14.58 TO STA 388+00.46, STA 422+31.03 TO STA 429+35.63



- ① ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO A POINT TWO FEET DOWN THE DITCH OR FILL SLOPE OR TO THE EDGE OF THE DGA, WHICHEVER IS LESS.
- ② DETAIL A IS FOR WHERE THE MEDIAN IS BEING USED FOR MAINTENANCE OF TRAFFIC, DETAIL B IS WHEN IT IS NOT.
- ③ MILL 4" EXISTING MEDIAN SURFACE, THEN PLACE NEW BASE AND SURFACE
- ④ SEE SHEET R2m FOR LANE AND MEDIAN LAYOUT FROM STA 375+95 TO STA 381+05

NOTE: SEE SHEET R2B SURFACING SCHEDULE

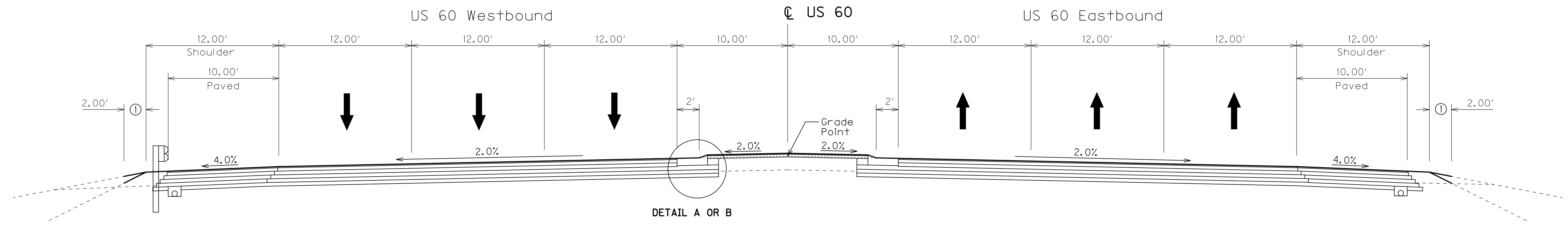
TYPICAL SECTIONS

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 USER: tvonbehren
 DATE PLOTTED: December 5, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.443

△ REVISED 12-6-12

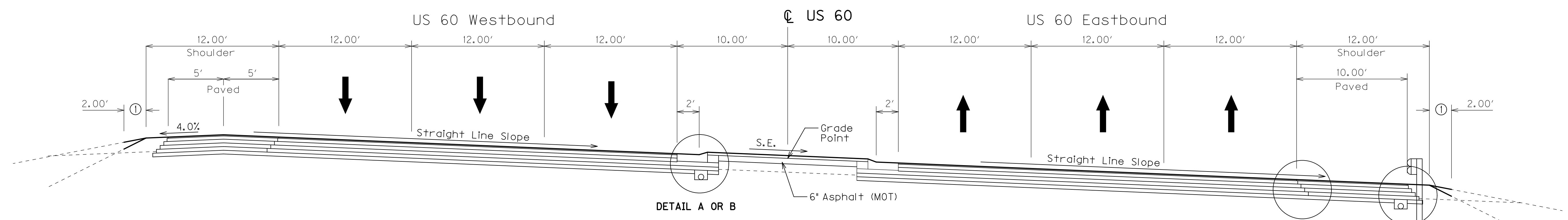
US 60 TYPICAL SECTIONS

6 LANE ROADWAY - ASPHALT ALTERNATE - FULL DEPTH REPLACEMENT SECTIONS

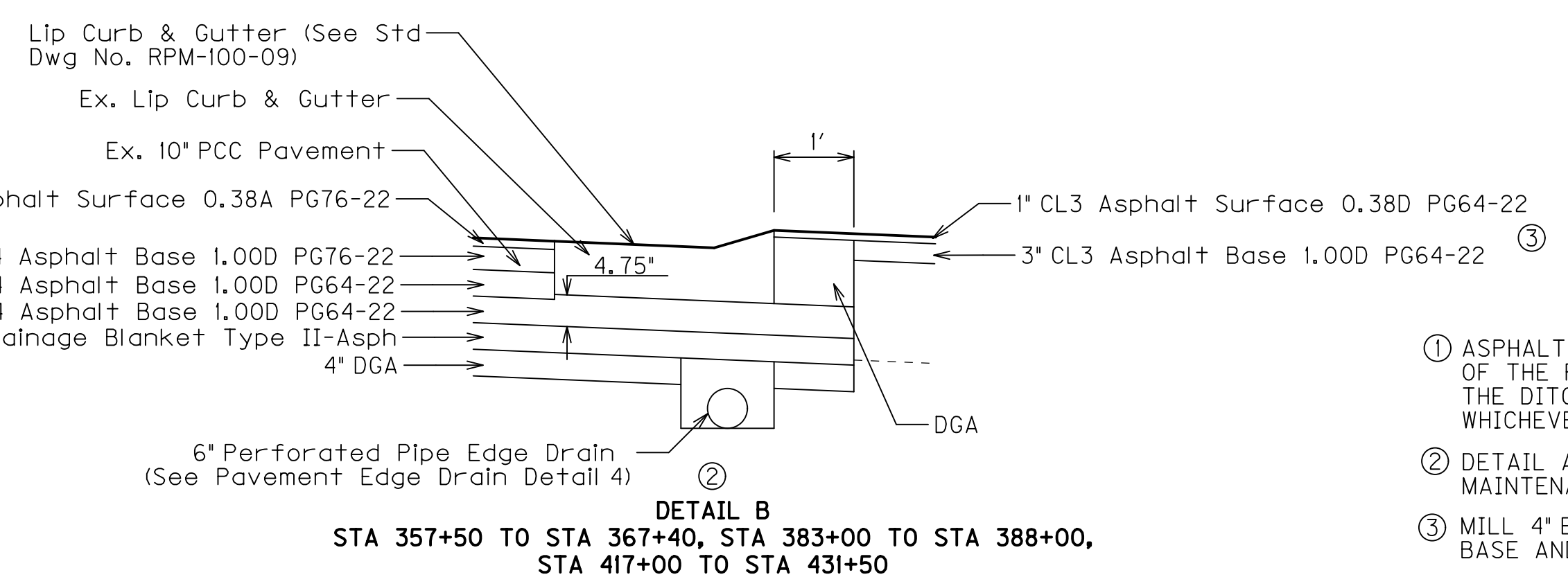
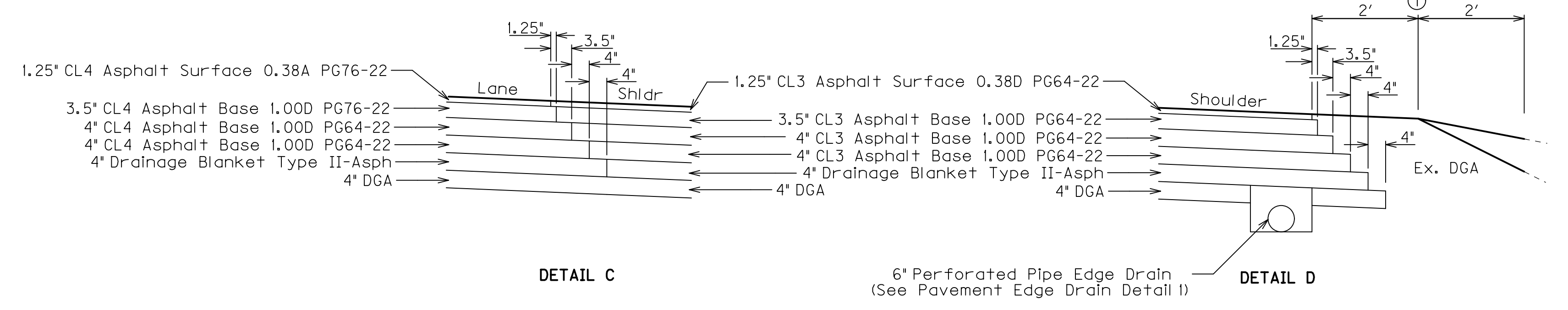
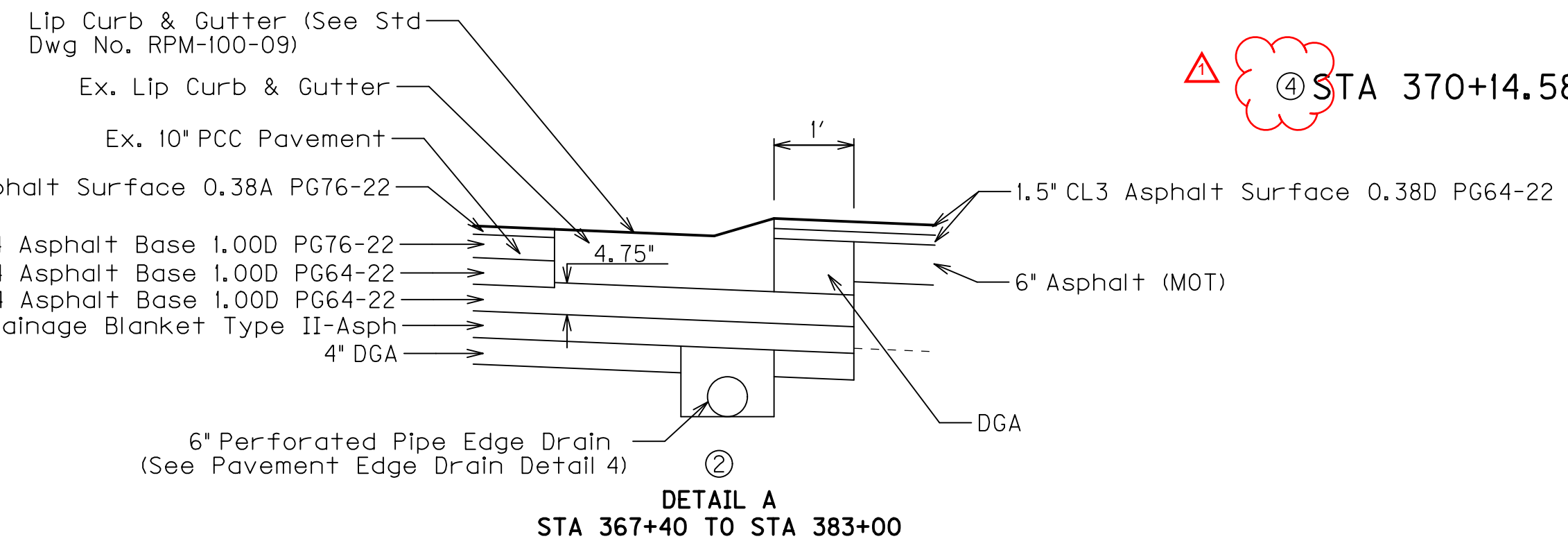


NORMAL SECTION
STA 357+50 TO STA 370+14.58, STA 417+00 TO STA 422+31.03, STA 429+35.63 TO STA 431+50

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SUPERELEVATED SECTION
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- ① ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO A POINT TWO FEET DOWN THE DITCH OR FILL SLOPE OR TO THE EDGE OF THE DGA, WHICHEVER IS LESS.
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NOTE: SEE SHEET R2B SURFACING SCHEDULE

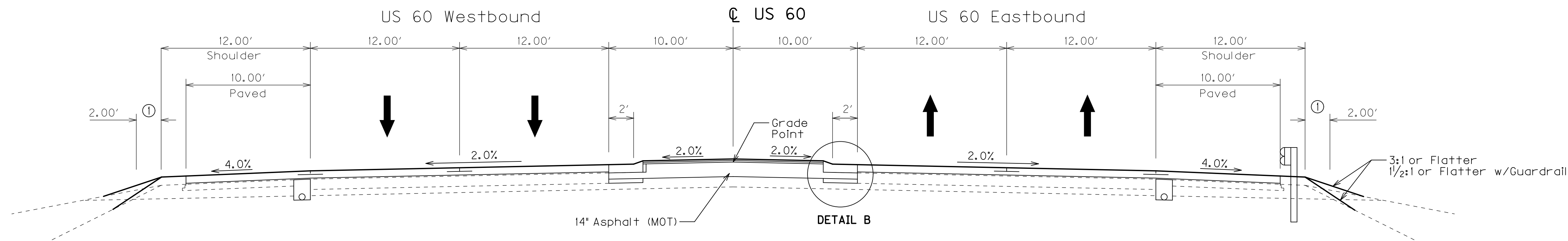
TYPICAL SECTIONS

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USER: tvonbehren
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MicroStation v8.11.7.443

US 60 TYPICAL SECTIONS

4 LANE ROADWAY - JPC ALTERNATE - OVERLAY SECTIONS

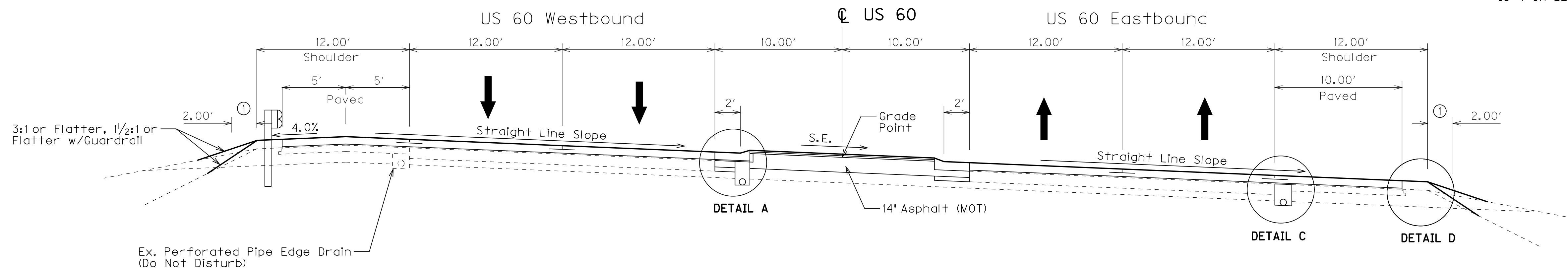
COUNTY OF	ITEM NO.	SHEET NO.
WOODFORD FAYETTE	7-2033.00	R2f



NORMAL SECTION

STA 173+00 TO STA 175+73, STA 184+96.72 TO STA 207+63.91, STA 213+64.35 TO STA 229+74.63,
 STA 238+27.04 TO STA 248+16.72, STA 264+20.52 TO STA 271+21.27, STA 289+16.81 TO STA 292+28.27,
 STA 300+44.69 TO STA 305+67.85, STA 314+93.67 TO STA 321+03.18, STA 335+63.89 TO STA 346+72.4

NOTE: SEE 'NARROW MEDIAN DETAIL' FOR MEDIAN PAVEMENT TYPICAL WHERE THE PAVED PORTION OF THE MEDIAN IS 4' OR LESS.



SUPERELEVATED SECTION

STA 175+73 TO STA 184+96.72, STA 207+63.91 TO STA 213+64.35, STA 229+74.63 TO STA 238+27.04,
 STA 248+16.72 TO STA 264+20.52, STA 271+21.27 TO STA 289+16.81, STA 292+28.27 TO STA 300+44.69,
 STA 305+67.85 TO STA 314+93.67, STA 321+03.18 TO STA 335+63.89

NEW CONSTRUCTION USING RIGID PAVEMENT JPC OVERLAY ON EXISTING PCC PAVEMENT

US 60 DRIVING LANES

APPROXIMATELY 1" BASE 1 INCH MODIFIED OPEN-GRADED DRAINAGE COURSE
 APPROXIMATELY 7" SURFACE JPC PAVEMENT-7 INCH ③

SHOULDERS

APPROXIMATELY 1" BASE 1 INCH MODIFIED OPEN-GRADED DRAINAGE COURSE
 APPROXIMATELY 7" SURFACE JPC PAVEMENT-7 INCH SHLD ② ③

① ASPHALT SEAL COAT 2.40 LBS/SQ YD EMULSIFIED ASPHALT RS-2
 (2 APPLICATIONS) 20 LBS/SQ YD ASPHALT SEAL AGGREGATE (Size No. 8 or 9M)

MEDIAN

APPROXIMATELY 3.0" SURFACE 1.5 INCH CL3 ASPHALT SURFACE 0.38D PG64-22
 (2 COURSES)

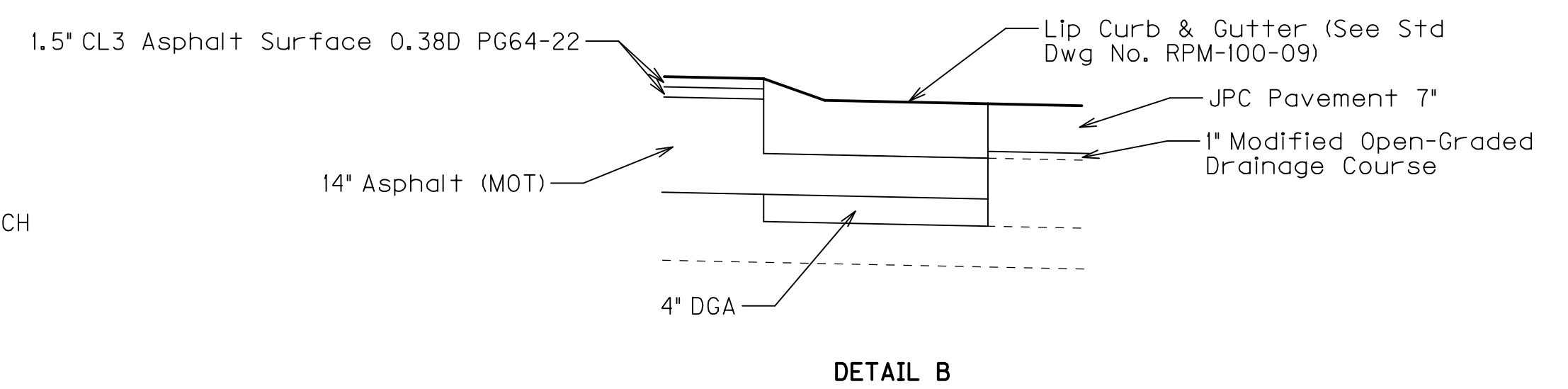
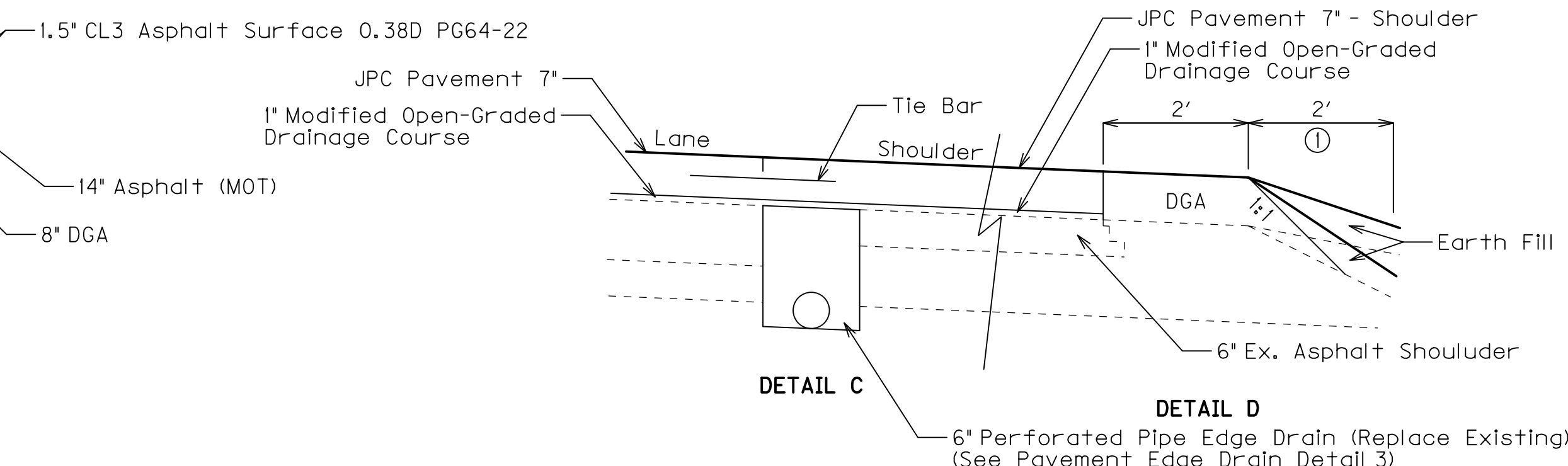
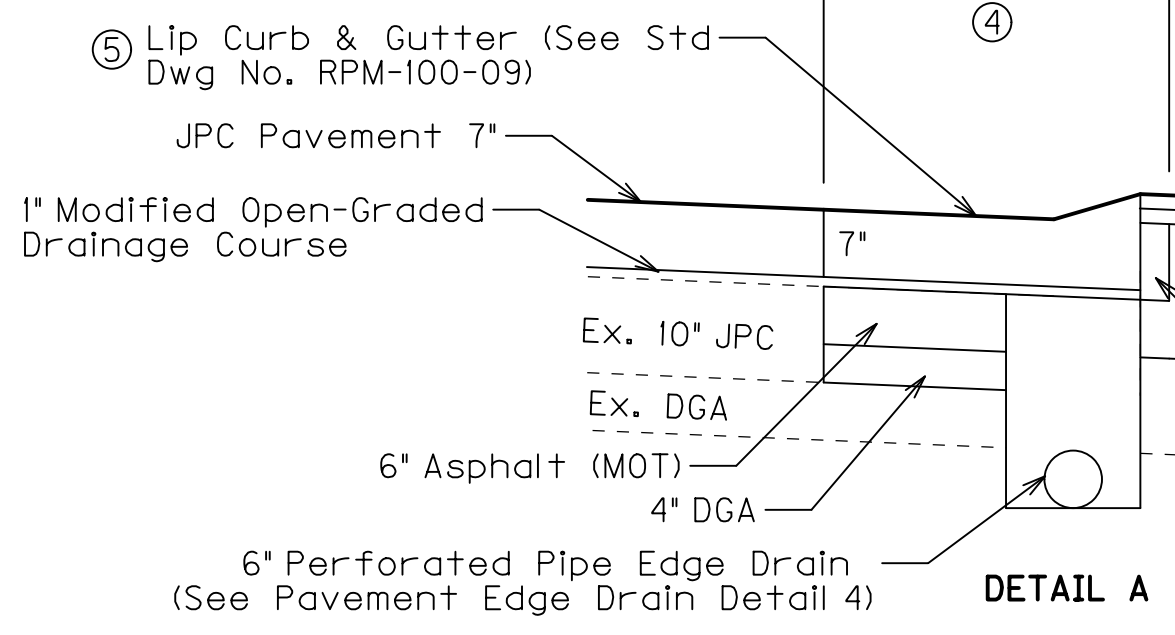
MEDIAN ⑤

APPROXIMATELY 3.0" BASE 3.0 INCH CL3 ASPHALT BASE 1.00D PG64-22
 APPROXIMATELY 1.0" SURFACE 1.0 INCH CL3 ASPHALT SURFACE 0.38D PG64-22

⑤ APPLIES TO DETAIL A ON NEXT SHEET ONLY

TYPICAL SECTIONS

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 DATE PLOTTED: December 5, 2012
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 MicroStation v8.11.7.443



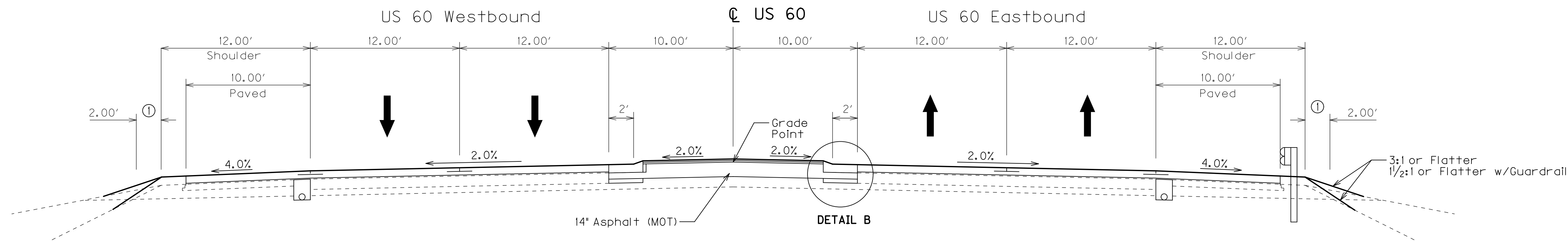
- ① ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO A POINT TWO FEET DOWN THE DITCH OR FILL SLOPE OR TO THE EDGE OF THE DGA, WHICHEVER IS LESS.
- ② ALL JPC PAVEMENT SHOULDERS ARE TO BE CONSTRUCTED WITH LOAD TRANSFER ASSEMBLIES
- ③ CONTRACTOR MAY USE 1" OR 1/4" DOWEL BAR ON JPC PAVEMENT-7 INCH OR JPC PAVEMENT-7 INCH SHLD
- ④ THIS SECTION OF THE MEDIAN DID NOT RECEIVE THE 8" OVERLAY DURING MAINTENANCE OF TRAFFIC PHASE 4.
- ⑤ CONTRARY TO THE 8" DEPTH SHOWN FOR THE GUTTER ON STD DWG RPM-100-09 'CURB AND GUTTER, CURBS, AND VALLEY GUTTER', CONSTRUCT 7" DEEP GUTTER ONLY WHERE PERFORATED PIPE IS TO BE INSTALLED.

US 60 TYPICAL SECTIONS

4 LANE ROADWAY - JPC ALTERNATE - OVERLAY SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
WOODFORD FAYETTE	7-2033.00	R2f

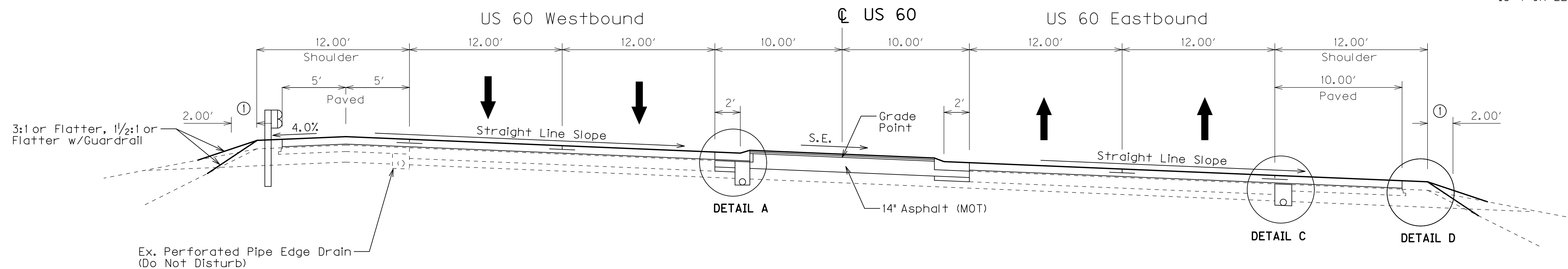
△ REVISED 12-6-12



NORMAL SECTION

STA 173+00 TO STA 175+73, STA 184+96.72 TO STA 207+63.91, STA 213+64.35 TO STA 229+74.63,
 STA 238+27.04 TO STA 248+16.72, STA 264+20.52 TO STA 271+21.27, STA 289+16.81 TO STA 292+28.27,
 STA 300+44.69 TO STA 305+67.85, STA 314+93.67 TO STA 321+03.18, STA 335+63.89 TO STA 346+72.4

NOTE: SEE 'NARROW MEDIAN DETAIL' FOR MEDIAN PAVEMENT TYPICAL WHERE THE PAVED PORTION OF THE MEDIAN IS 4' OR LESS.



SUPERELEVATED SECTION

STA 175+73 TO STA 184+96.72, STA 207+63.91 TO STA 213+64.35, STA 229+74.63 TO STA 238+27.04,
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 APPROXIMATELY 7" SURFACE JPC PAVEMENT-7 INCH ③

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MEDIAN

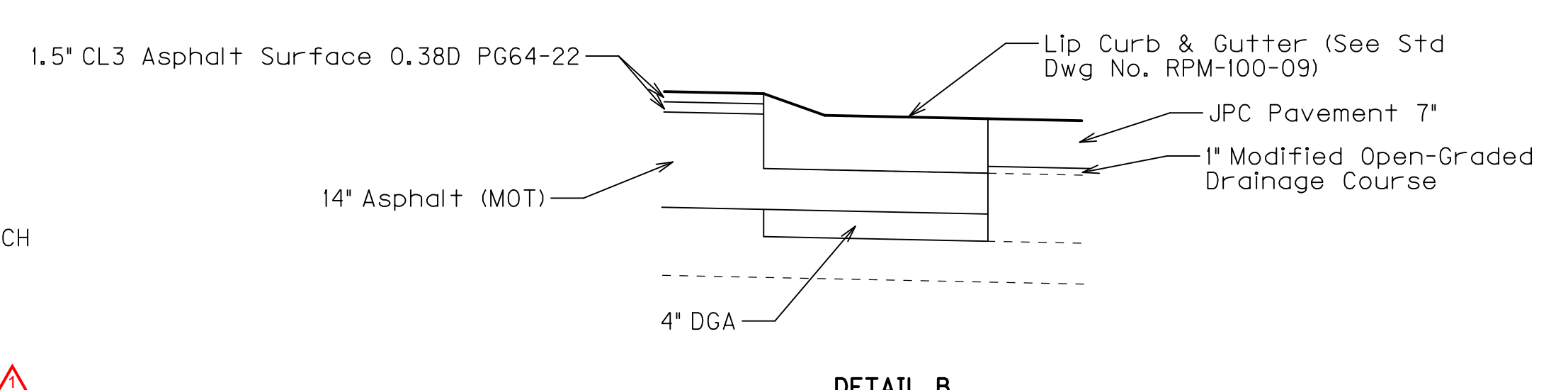
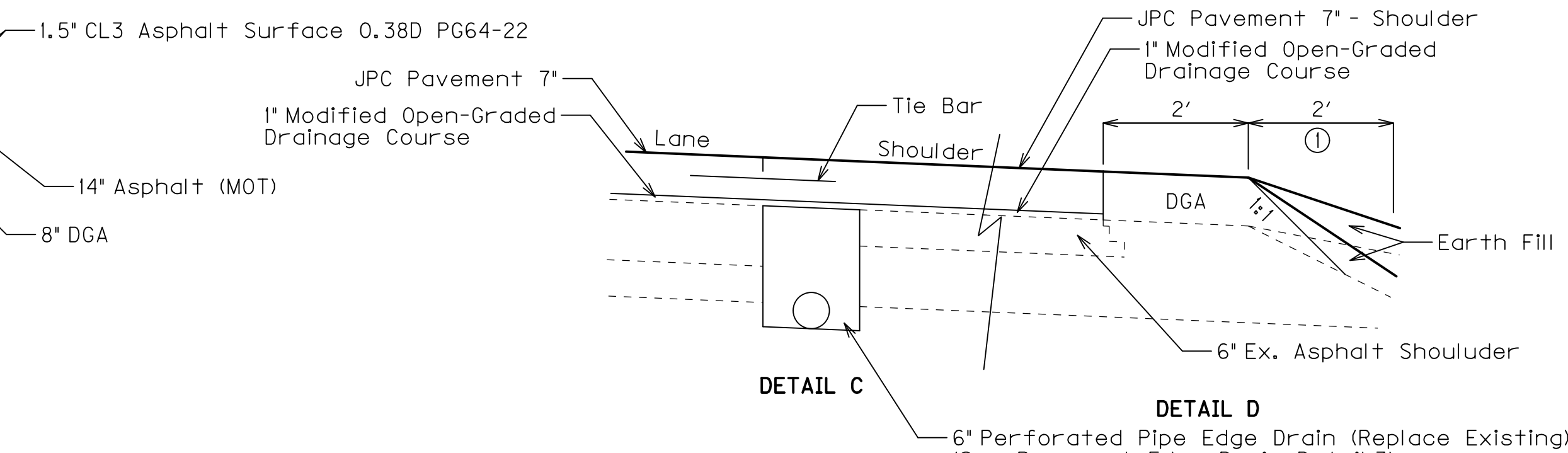
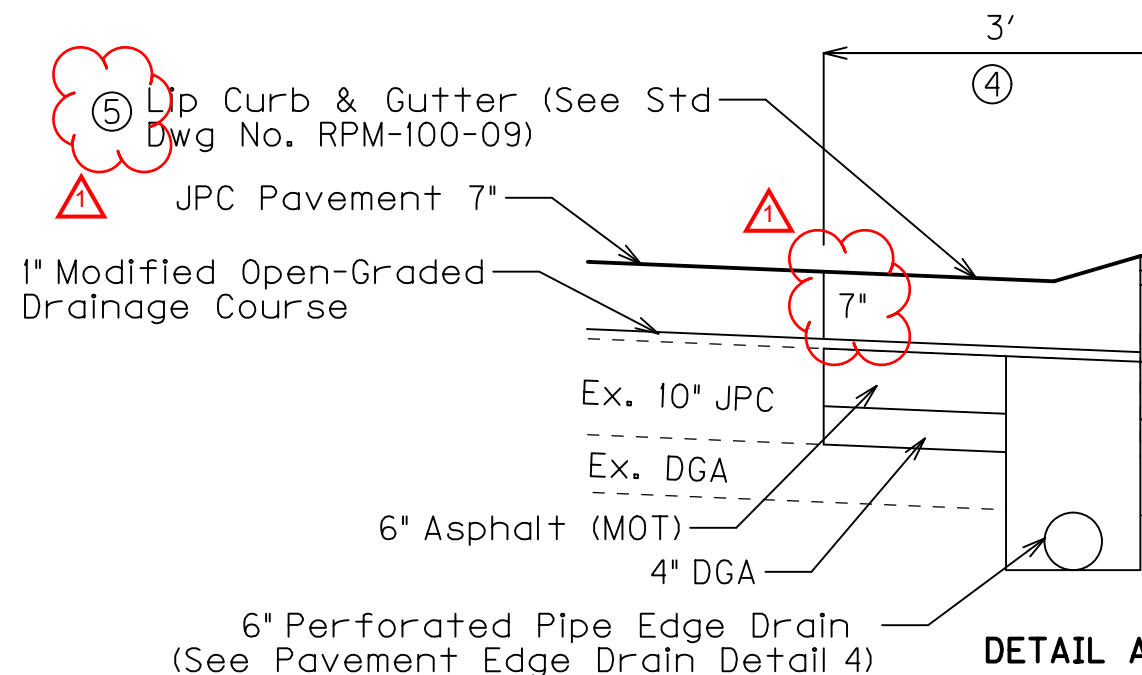
APPROXIMATELY 3.0" SURFACE 1.5 INCH CL3 ASPHALT SURFACE 0.38D PG64-22
 (2 COURSES)

MEDIAN ⑤

APPROXIMATELY 3.0" BASE 3.0 INCH CL3 ASPHALT BASE 1.00D PG64-22
 APPROXIMATELY 1.0" SURFACE 1.0 INCH CL3 ASPHALT SURFACE 0.38D PG64-22

⑤ APPLIES TO DETAIL A ON NEXT SHEET ONLY

TYPICAL SECTIONS

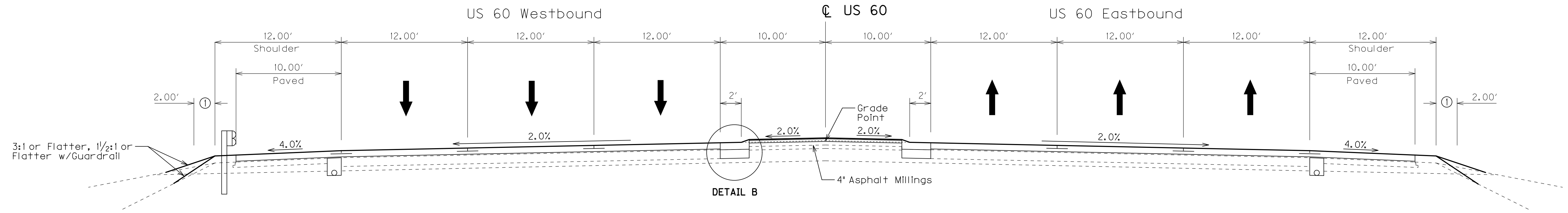


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- ④ THIS SECTION OF THE MEDIAN DID NOT RECEIVE THE 8" OVERLAY DURING MAINTENANCE OF TRAFFIC PHASE 4
- ⑤ CONTRARY TO THE 8" DEPTH SHOWN FOR THE GUTTER ON STD DWG RPM-100-09 'CURB AND GUTTER, CURBS, AND VALLEY GUTTER', CONSTRUCT 7" DEEP GUTTER ONLY WHERE PERFORATED PIPE IS TO BE INSTALLED.

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 USER: tvonbehren
 DATE PLOTTED: December 5, 2012
 E-SHEET NAME:
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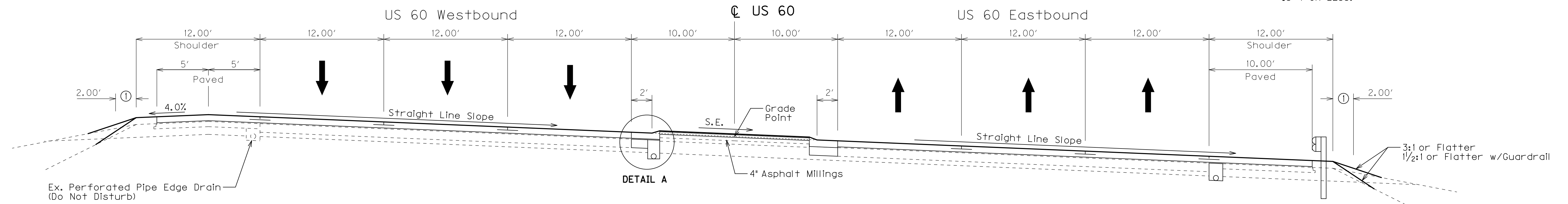
US 60 TYPICAL SECTIONS

6 LANE ROADWAY - JPC ALTERNATE - OVERLAY SECTIONS

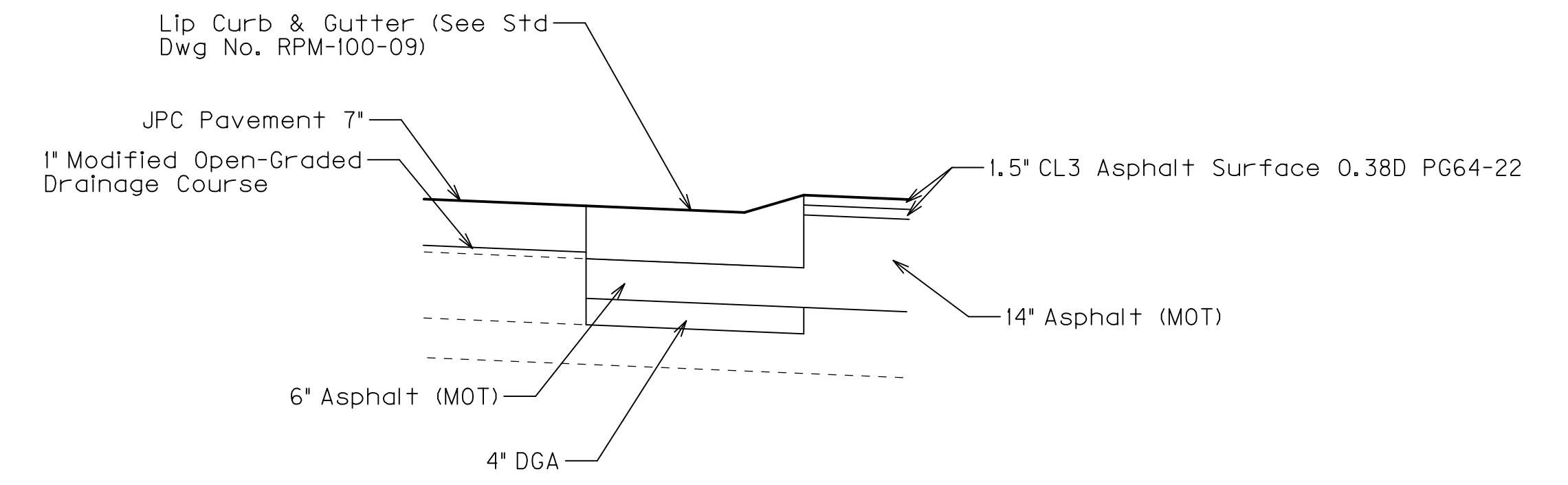
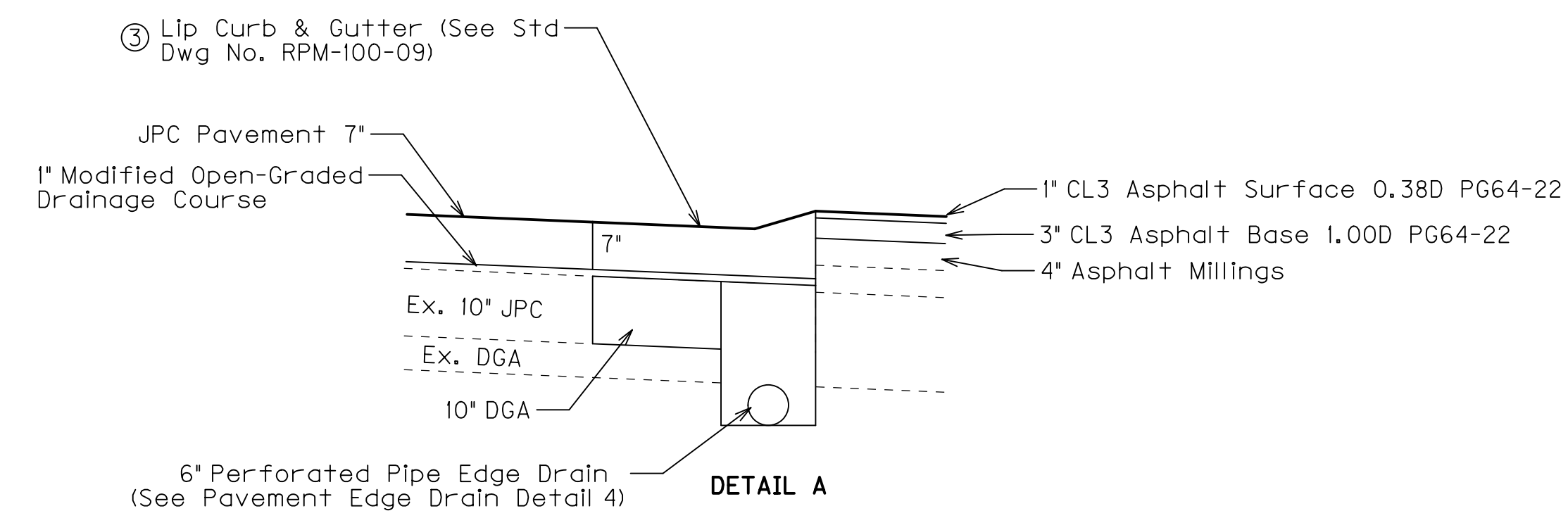


NORMAL SECTION
STA 346+72.4 TO STA 357+50, STA 392+00.46 TO STA 417+00

NOTE: SEE 'NARROW MEDIAN DETAIL' FOR MEDIAN PAVEMENT TYPICAL WHERE THE PAVED PORTION OF THE MEDIAN IS 4' OR LESS.



SUPERELEVATED SECTION
STA 388+00 TO STA 392+00.46



- ① ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO A POINT TWO FEET DOWN THE DITCH OR FILL SLOPE OR TO THE EDGE OF THE DGA, WHICHEVER IS LESS.
- ② STA 346+72.4 TO STA 350+75 ONLY. REFER TO DETAIL A FOR OTHER LOCATIONS (NO PERFORATED PIPE)
- ③ CONTRARY TO THE 8" DEPTH SHOWN FOR THE GUTTER ON STD DWG RPM-100-09 'CURB AND GUTTER, CURBS, AND VALLEY GUTTER', CONSTRUCT 7" DEEP GUTTER ONLY WHERE PERFORATED PIPE IS TO BE INSTALLED.

NOTE: SEE SHEET R2D FOR SURFACING SCHEDULE

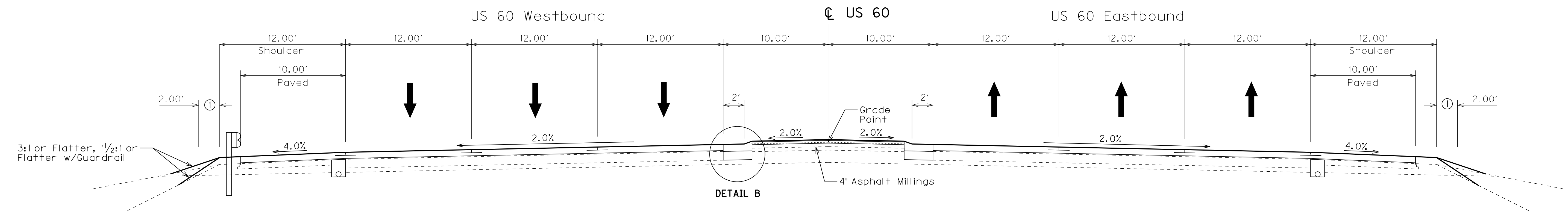
TYPICAL SECTIONS

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△ REVISED 12-6-12

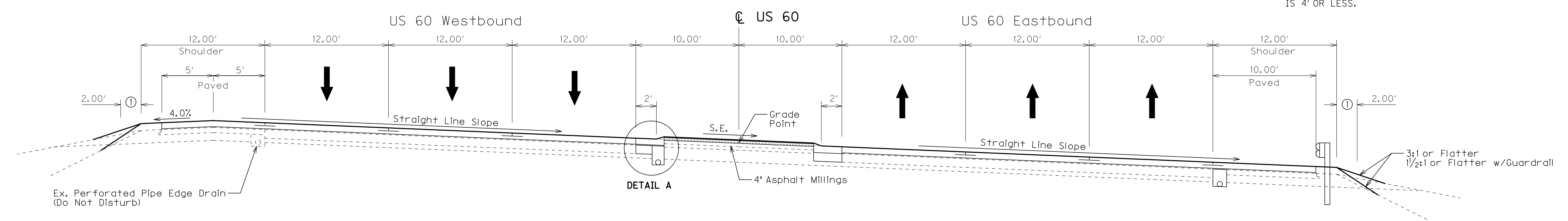
US 60 TYPICAL SECTIONS

6 LANE ROADWAY - JPC ALTERNATE - OVERLAY SECTIONS

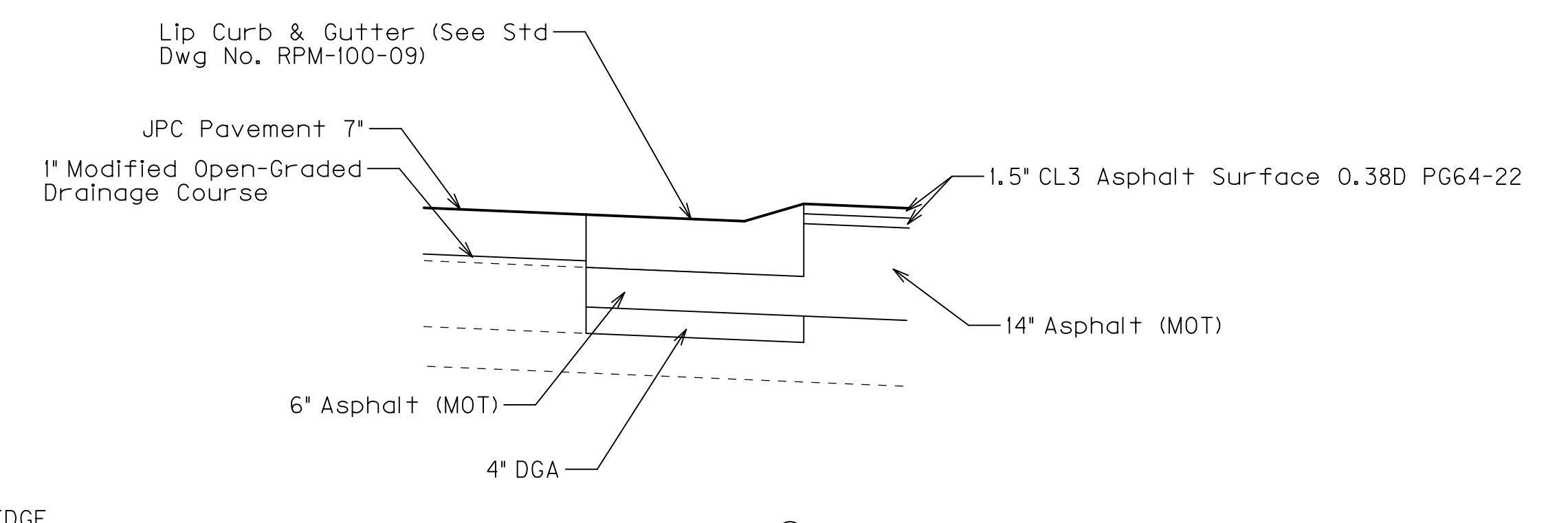
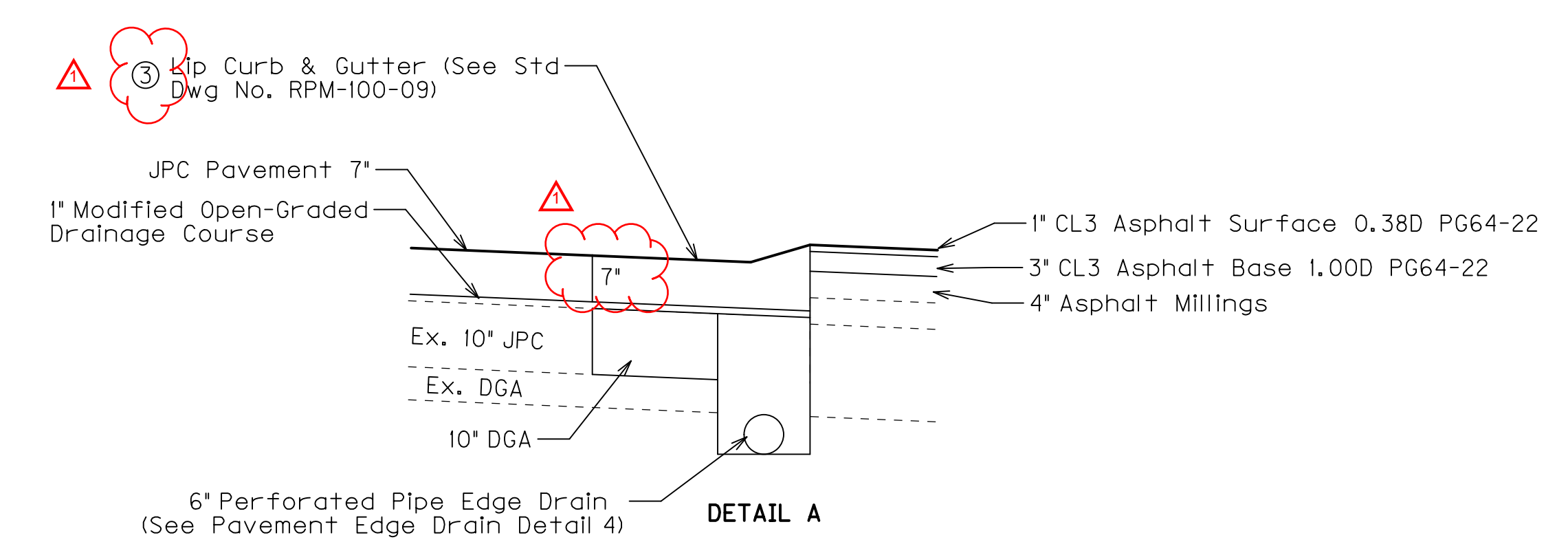


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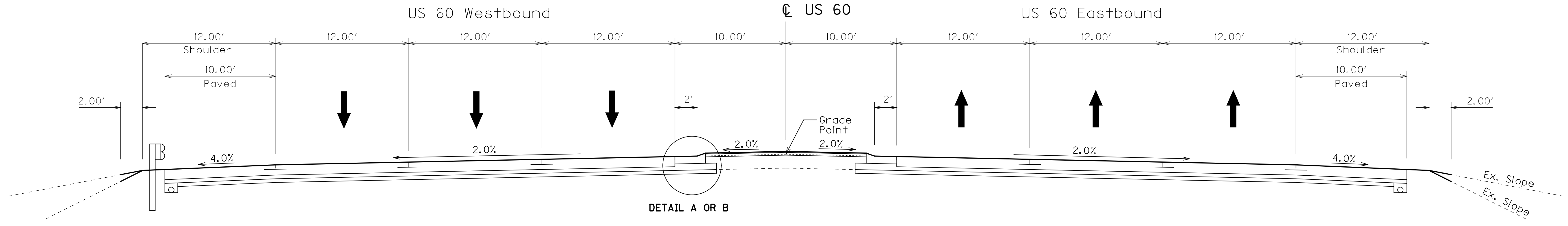
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TYPICAL SECTIONS

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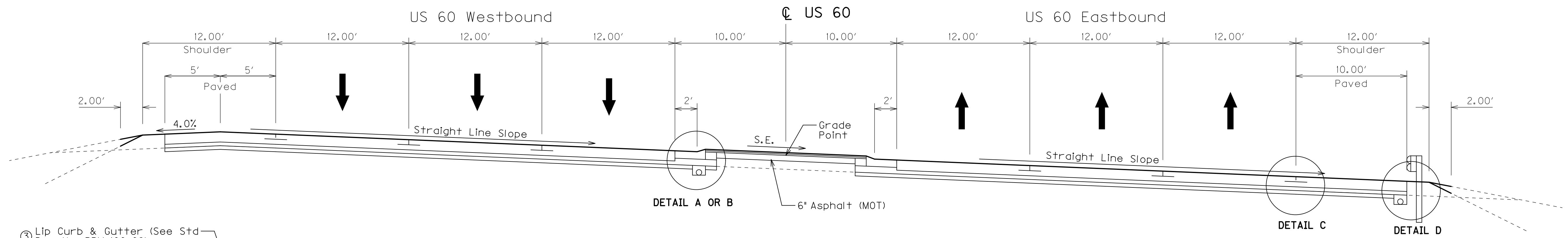
US 60 TYPICAL SECTIONS

6 LANE ROADWAY - JPC ALTERNATE - FULL DEPTH REPLACEMENT SECTIONS

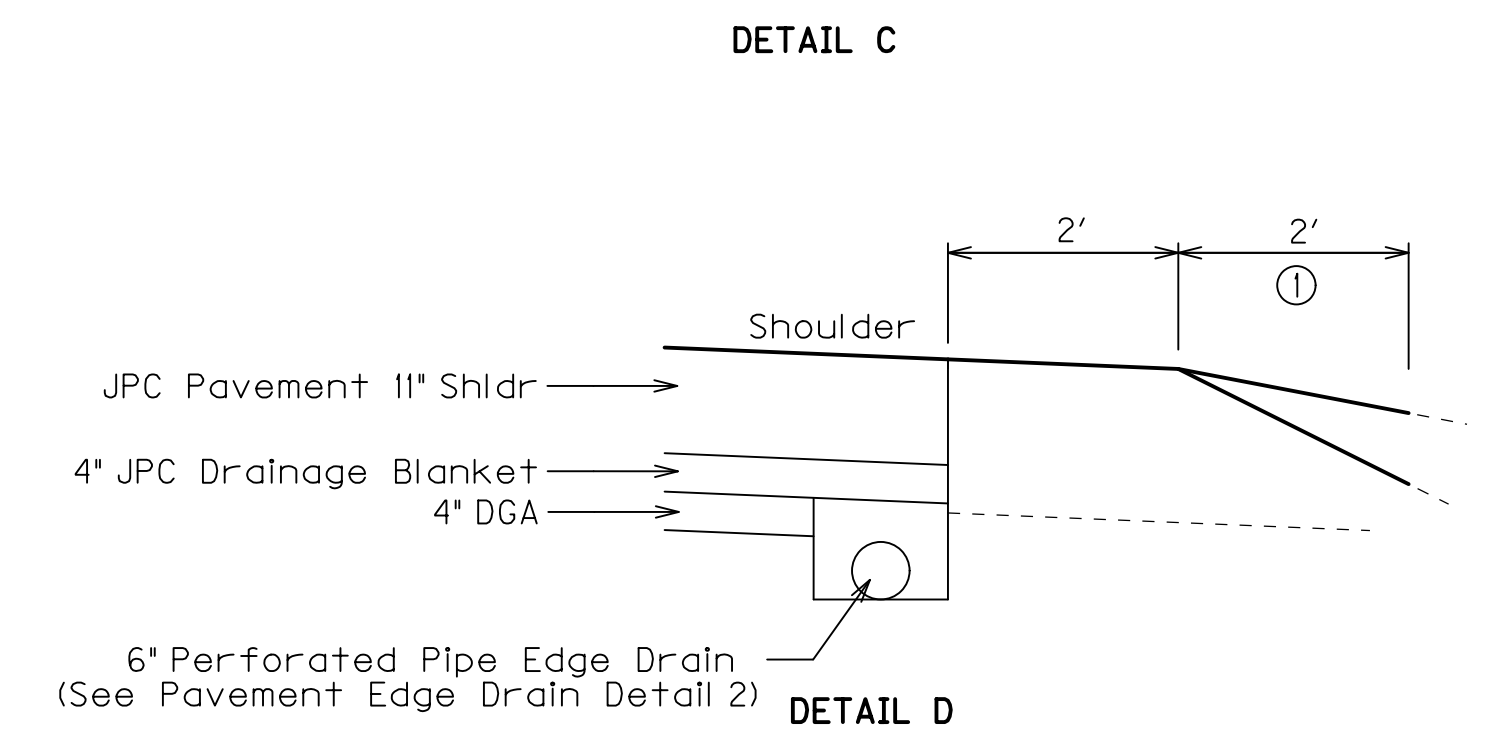
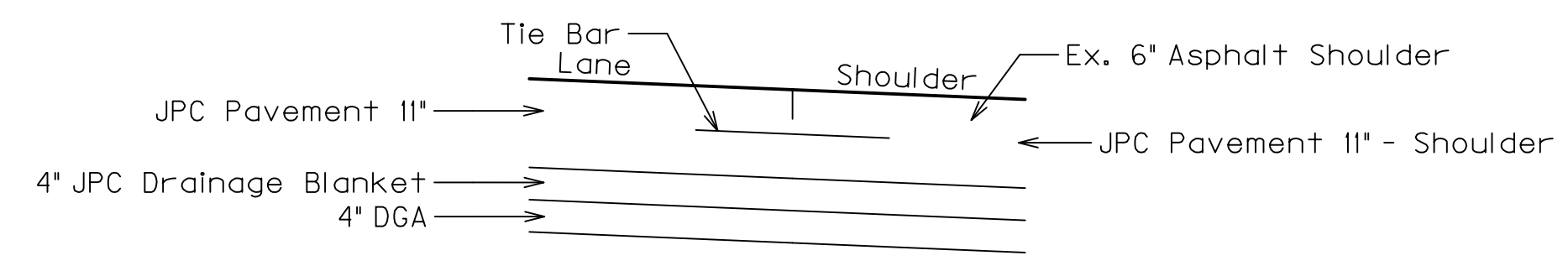
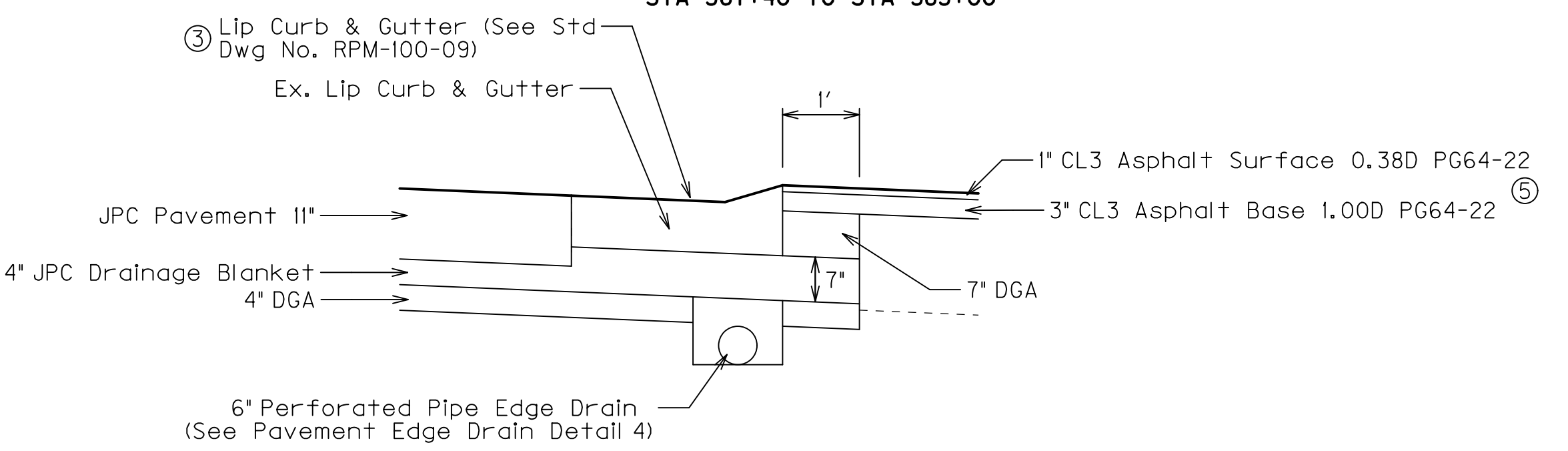
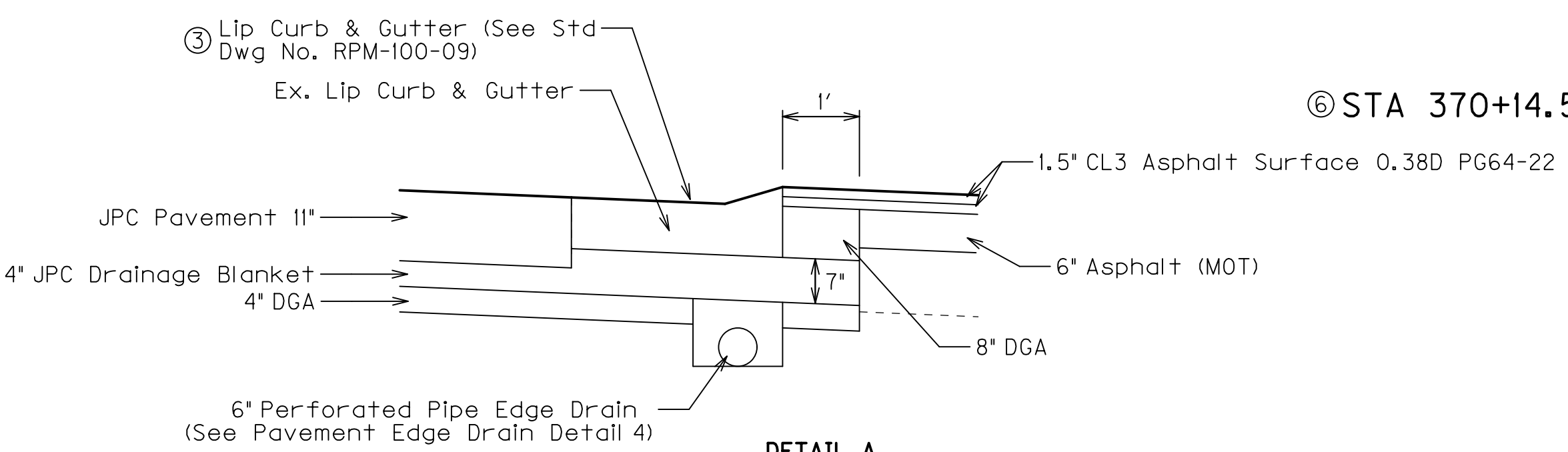


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- ① ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO A POINT TWO FEET DOWN THE DITCH OR FILL SLOPE OR TO THE EDGE OF THE DGA, WHICHEVER IS LESS.
- ② 5" EX. DGA THICKNESS FOR 6 LANE ROADWAY SECTION AS SHOWN ON PREVIOUS CONSTRUCTION PLANS.
- ③ THE USE LIP INTEGRAL CURB IN PLACE OF LIP CURB & GUTTER WILL BE ALLOWED IN THE 6 LANE SECTION
- ④ DETAIL A IS FOR WHERE THE MEDIAN IS BEING USED FOR MAINTENANCE OF TRAFFIC, DETAIL B IS WHEN IT IS NOT.
- ⑤ MILL 4" EXISTING MEDIAN SURFACE, THEN PLACE NEW BASE AND SURFACE
- ⑥ SEE SHEET R2m FOR LANE AND MEDIAN LAYOUT FROM STA 375+95 TO STA 381+05

NOTE: SEE SHEET R2F FOR SURFACING SCHEDULE

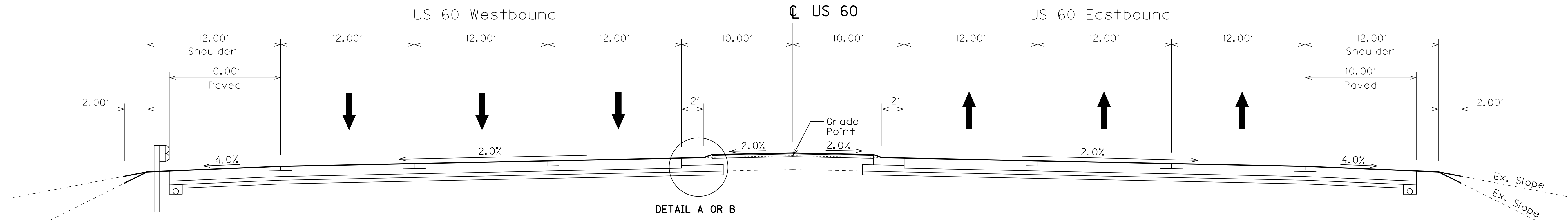
TYPICAL SECTIONS

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US 60 TYPICAL SECTIONS

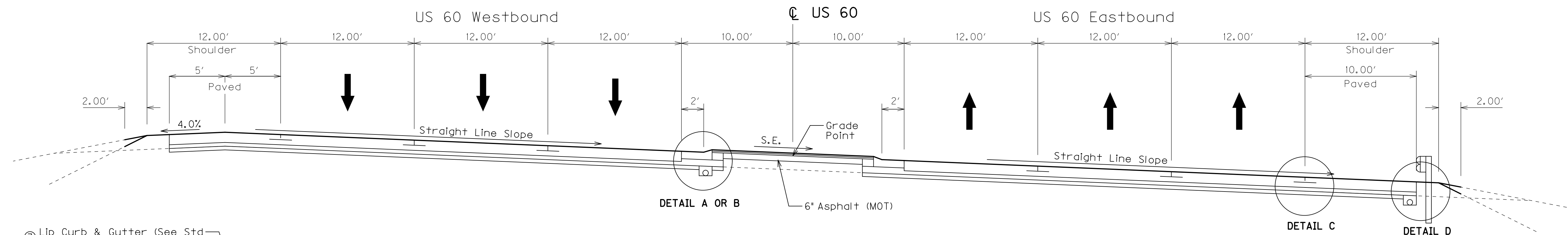
△ REVISED 12-6-12

6 LANE ROADWAY - JPC ALTERNATE - FULL DEPTH REPLACEMENT SECTIONS

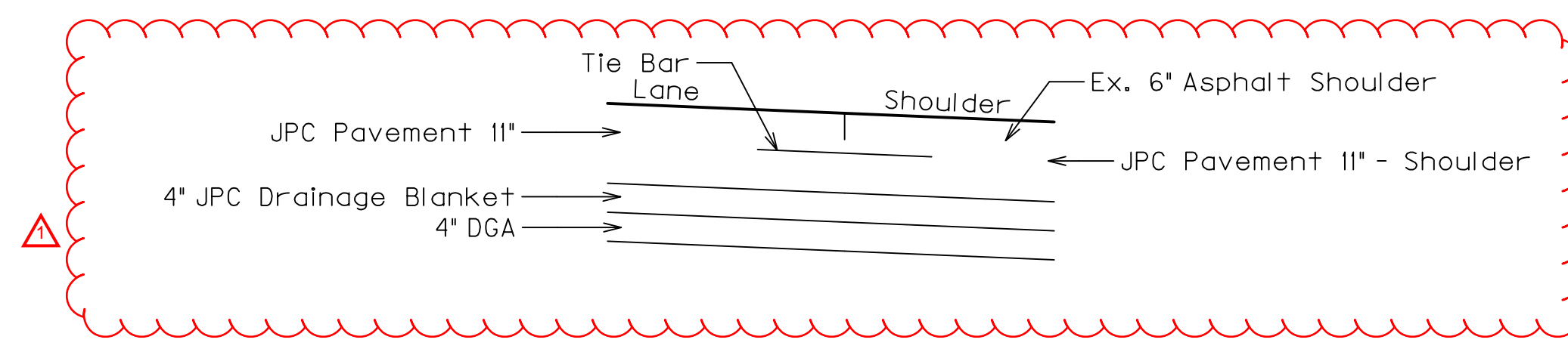
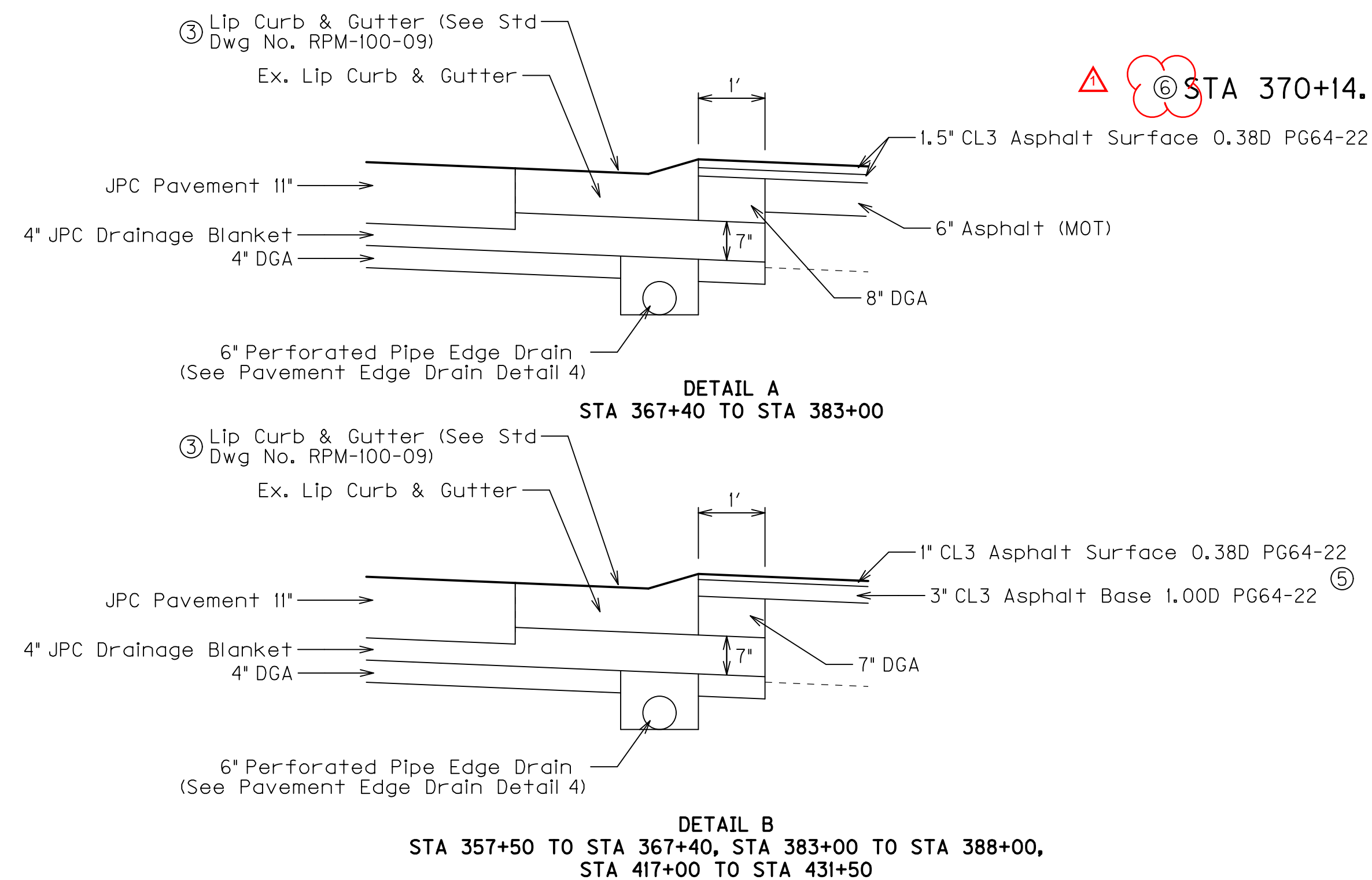


NORMAL SECTION
STA 357+50 TO STA 370+14.58, STA 417+00 TO STA 422+31.03, STA 429+35.63 TO STA 431+50

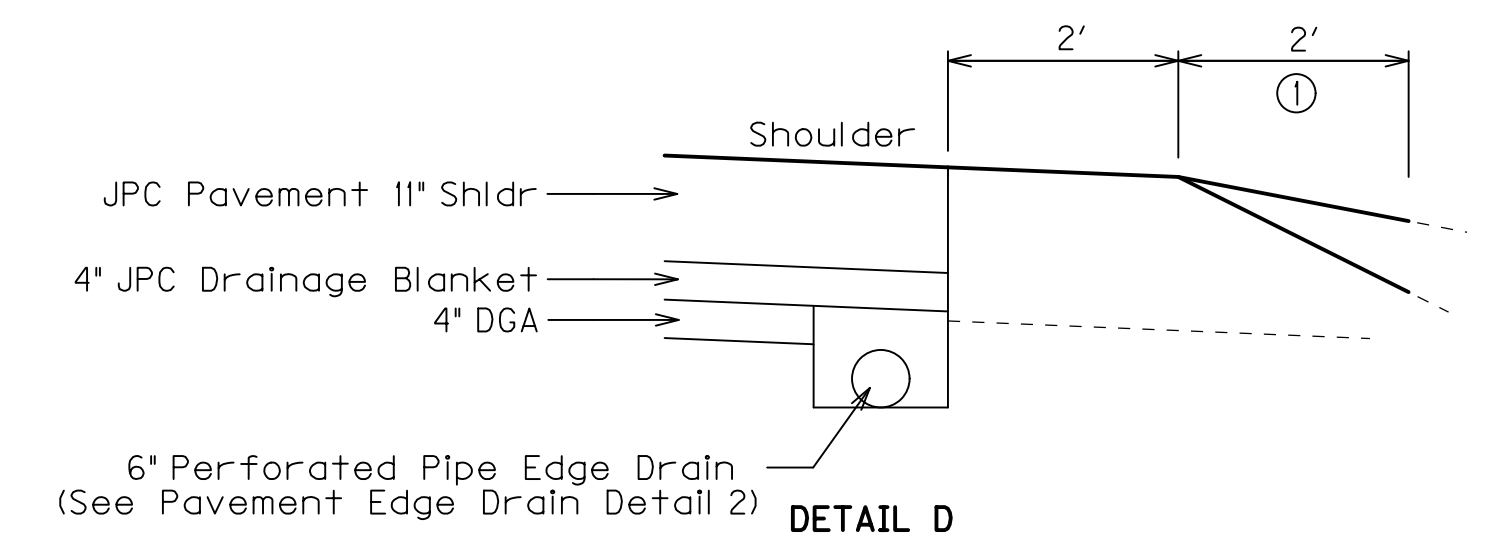
NOTE: SEE 'NARROW MEDIAN DETAIL' FOR MEDIAN PAVEMENT TYPICAL WHERE THE PAVED PORTION OF THE MEDIAN IS 4' OR LESS.



SUPERELEVATED SECTION
⑥ STA 370+14.58 TO STA 388+00.46, STA 422+31.03 TO STA 429+35.63



- ① ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED SHOULDER TO A POINT TWO FEET DOWN THE DITCH OR FILL SLOPE OR TO THE EDGE OF THE DGA, WHICHEVER IS LESS.
- ② 5" EX. DGA THICKNESS FOR 6 LANE ROADWAY SECTION AS SHOWN ON PREVIOUS CONSTRUCTION PLANS.
- ③ THE USE LIP INTEGRAL CURB IN PLACE OF LIP CURB & GUTTER WILL BE ALLOWED IN THE 6 LANE SECTION
- ④ DETAIL A IS FOR WHERE THE MEDIAN IS BEING USED FOR MAINTENANCE OF TRAFFIC, DETAIL B IS WHEN IT IS NOT.
- ⑤ MILL 4" EXISTING MEDIAN SURFACE, THEN PLACE NEW BASE AND SURFACE
- ⑥ SEE SHEET R2m FOR LANE AND MEDIAN LAYOUT FROM STA 375+95 TO STA 381+05



NOTE: SEE SHEET R2F FOR SURFACING SCHEDULE

TYPICAL SECTIONS

FILE NAME: P:\CIVIL\US60\7-2033.00\CONTRACT PLANS AND PROPOSAL\REVISED AFTER SUBMITTAL\PLANS REVISION 2\R002101S.DGN

USER: tvonbehren
DATE PLOTTED: December 6, 2012

E-SHEET NAME:

MicroStation v8.11.7.443

PAVEMENT SUMMARY -- JPC ALTERNATE AREAS

ITEM	WOODFORD						FAYETTE						TOTAL
	US 60	RAMP A	RAMP D	RAMP D-1	APPROACH	COUNTY TOTAL	US 60	APPROACH	COUNTY TOTAL	US 60	APPROACH	COUNTY TOTAL	
S Q U A R E Y A R D S													
FULL DEPTH SECTIONS													
1" JPC PAVEMENT	22529					22529	37574				37574	60103	
1" JPC PAVEMENT - SHOULDER	6212					6212	8478				8478	14690	
4" JPC PAVEMENT DRAINAGE BLANKET	28741			2334		31075	46053				40653	77128	
7" JPC PAVEMENT DRAINAGE BLANKET	2164					2164	3300				3300	5464	
1.5" CL4 ASPH SURF 0.38A PG76-22				2334		2334	0				0	2334	
3.5" CL4 ASPH BASE 1.000 PG76-22				2334		2334	0				0	2334	
4" CL4 ASPH BASE 1.000 PG64-22				2334		2334	0				0	2334	
4" CL4 ASPH BASE 1.000 PG64-22				2334		2334	0				0	2334	
5 LBS/SOYD SAND FOR BLOTTER	30906			2334		33240	49352				49352	82592	
1.6 LBS/SOYD ASPHALT CURING SEAL	30906			2334		33240	49352				49352	82592	
4" DGA BASE	30906			2334		33240	49352				49352	82592	
3" ROADWAY EXCAVATION	30906					30906	49352				49352	80258	
9" ROADWAY EXCAVATION				2334		2334	0				0	2334	
6" ASPHALT PAVE MILLING & TEXTURING				2334		2334	0				0	2334	
8" ASPHALT PAVE MILLING & TEXTURING						0	318				318	318	
REMOVE PCC PAVEMENT						22529	37574		939		38513	61042	
4" CL3 ASPH BASE 1.000 PG64-22						5677	3197				3197	8874	
4" ASPHALT PAVE MILLING & TEXTURING						5677	3197				3197	8874	
6" ASPHALT PAVE MILLING & TEXTURING						5677	3197				3197	8874	
4" ASPHALT PAVE MILLING & TEXTURING						1594	4389				4389	5983	
5" ROADWAY EXCAVATION						1594	994				994	2588	
3" CL3 ASPH BASE 1.000 PG64-22						3215	2687				2687	5902	
3" CL3 ASPH BASE 1.000 PG64-22						3215	2687				2687	5902	
1.5" CL3 ASPH SURF 0.380 PG64-22						1005	586				586	1591	
1.5" CL3 ASPH SURF 0.380 PG64-22						1005	586				586	1591	
3" CL3 ASPH BASE 1.000 PG64-22						0	3127				3127	3127	
1" CL3 ASPH SURF 0.380 PG64-22						0	3127				3127	3127	
4" CONCRETE MEDIAN						390	404				404	794	
6" REMOVE PAVEMENT						2142	1711				1711	3853	
OVERLAY SECTIONS													
7" JPC PAVEMENT	25522					25522	116408		939		117347	142869	
7" JPC PAVEMENT - SHOULDER	9044					9044	37643				37643	46687	
1" MODIFIED OPEN - GRADED DRAINAGE COURSE	35696					35696	157919				157919	193615	
6" DGA BASE						0	1034				1034	193615	
4" CL3 ASPH BASE 1.000 PG64-22						8617	32547				32547	41164	
4" ASPHALT PAVE MILLING & TEXTURING						8617	32547				32547	41164	
4" ASPHALT PAVE MILLING & TEXTURING						4277	18124				18124	22401	
5" ROADWAY EXCAVATION						4277	18124				18124	22401	
3" CL3 ASPH BASE 1.000 PG64-22						6626	26591				26591	33217	
3" CL3 ASPH BASE 1.000 PG64-22						6626	26591				26591	33217	
4" CL3 ASPH BASE 1.000 PG64-22						5791	22746				22746	28537	
4" CL3 ASPH BASE 1.000 PG64-22						5791	22746				22746	28537	
1.5" CL3 ASPH SURF 0.380 PG64-22						3714	15809				15809	19523	
1.5" CL3 ASPH SURF 0.380 PG64-22						3714	15809				15809	19523	
3" CL3 ASPH BASE 1.000 PG64-22						0	5707				5707	5707	
1" CL3 ASPH SURF 0.380 PG64-22						0	5707				5707	5707	
4" CONCRETE MEDIAN						319	728				728	1047	
8" REMOVE PAVEMENT						1932	6791				6791	8723	
1.25" CL4 ASPH SURF 0.38A PG76-22						434	557				557	991	
3" CL4 ASPH BASE 1.000 PG76-22						217	278				278	495	
3.75"/2" LEVELING & WEDGING 64PG-22						217	278				278	495	
3/2" LEVELING & WEDGING 64PG-22						217	278				278	495	
2.07 TONS/CUYD DGA						3	4				4	7	
MILL AND OVERLAY													
1.5" CL4 ASPH SURF 0.38A PG76-22	20791	1454	8216			30461					0	30461	
1.5" ASPHALT PAVE MILLING & TEXTURING	20791	1454	8216			30461					0	30461	
1.5"/2" LEVELING & WEDGING PG76-22	4893					4893					0	4893	
DIVERSIONS													
3" CL3 ASPH BASE 1.000 PG64-22	2880					2880	3652				3652	6532	
3" CL3 ASPH BASE 1.000 PG64-22	2880					2880	3652				3652	6532	
4" DGA BASE	2880					2880	3652				3652	6532	
DRESS SHOULDERS													
ASPHALT SEAL COAT	2786					2786	8354				8354	11140	
ASPHALT SEAL AGGREGATE	2786					2786	8354				8354	11140	
2.07 TONS/CUYD DGA	706					706	1830				1830	2536	

① INCLUDES REMOVAL OF ALL GRANULAR MATERIALS BELOW THE PAVEMENT. SAW CUTTING SHALL BE INCIDENTAL TO THIS BID ITEM.

② SHOULDER AREAS

③ MEDIAN AREAS

④ CONCRETE MEDIAN IS TO BE CONSTRUCTED OF CLASS A CONCRETE. USE WHERE THE WIDTH OF THE MEDIAN IS LESS THAN 4 FEET.

⑤ ASPHALT AREAS NOT REMOVED BY MILLING.

⑥ THIS ITEM REPORTED IN CUBIC YARDS.

⑦ TEMPORARY PAVEMENT FOR MAINTENANCE OF TRAFFIC PURPOSES. SEE MOT PLANS.

PAVEMENT SUMMARY -- JPC ALTERNATE AREAS

ITEM	WOODFORD					FAYETTE					TOTAL
	US 60	RAMP A	RAMP D	RAMP D-1	APPROACH	COUNTY TOTAL	US 60	APPROACH	COUNTY TOTAL		
S Q U A R E Y A R D S											
FULL DEPTH SECTIONS											
11" JPC PAVEMENT	22529					22529	37574			37574	60103
1" JPC PAVEMENT - SHOULDER	6212					6212	8478			8478	14690
4" JPC PAVEMENT DRAINAGE BLANKET	28741			2334		31075	46053			40653	77128
7" JPC PAVEMENT DRAINAGE BLANKET	2164					2164	3300			3300	5464
1.5" CL4 ASPH SURF 0.38A PG76-22				2334		2334	0			0	2334
3.5" CL4 ASPH BASE 1.000 PG76-22				2334		2334	0			0	2334
4" CL4 ASPH BASE 1.000 PG64-22				2334		2334	0			0	2334
4" CL4 ASPH BASE 1.000 PG64-22				2334		2334	0			0	2334
5 LBS/SOYD SAND FOR BLOTTER	30906			2334		33240	49352			49352	82592
1.6 LBS/SOYD ASPHALT CURING SEAL	30906			2334		33240	49352			49352	82592
4" DGA BASE	30906			2334		33240	49352			49352	82592
3" ROADWAY EXCAVATION	30906					30906	49352			49352	80258
9" ROADWAY EXCAVATION				2334		2334	0			0	2334
6" ASPHALT PAVE MILLING & TEXTURING				2334		2334	0			0	2334
8" ASPHALT PAVE MILLING & TEXTURING						0	318			318	318
REMOVE PCC PAVEMENT	22529					22529	37574	939		38513	61042
4" CL3 ASPH BASE 1.000 PG64-22	5677					5677	3197			3197	8874
4" ASPHALT PAVE MILLING & TEXTURING	5677					5677	3197			3197	8874
6" ASPHALT PAVE MILLING & TEXTURING	5677					5677	3197			3197	8874
4" ASPHALT PAVE MILLING & TEXTURING	1594					1594	4389			4389	5983
5" ROADWAY EXCAVATION	1594					1594	994			994	2588
3" CL3 ASPH BASE 1.000 PG64-22	3215					3215	2687			2687	5902
3" CL3 ASPH BASE 1.000 PG64-22	3215					3215	2687			2687	5902
1.5" CL3 ASPH SURF 0.380 PG64-22	1005					1005	586			586	1591
1.5" CL3 ASPH SURF 0.380 PG64-22	1005					1005	586			586	1591
3" CL3 ASPH BASE 1.000 PG64-22						0	3127			3127	3127
1" CL3 ASPH SURF 0.380 PG64-22						0	3127			3127	3127
4" CONCRETE MEDIAN	390					390	404			404	794
6" REMOVE PAVEMENT	2142					2142	1711			1711	3853
OVERLAY SECTIONS											
7" JPC PAVEMENT	25522					25522	116408	939		117347	142869
7" JPC PAVEMENT - SHOULDER	9044					9044	37643			37643	46687
1" MODIFIED OPEN - GRADED DRAINAGE COURSE	35696					35696	157919			157919	193615
6" DGA BASE						0	1034			1034	1034
4" CL3 ASPH BASE 1.000 PG64-22	8617					8617	32547			32547	41164
4" ASPHALT PAVE MILLING & TEXTURING	8617					8617	32547			32547	41164
4" ASPHALT PAVE MILLING & TEXTURING	4277					4277	18124			18124	22401
5" ROADWAY EXCAVATION	4277					4277	18124			18124	22401
3" CL3 ASPH BASE 1.000 PG64-22	6626					6626	26591			26591	33217
3" CL3 ASPH BASE 1.000 PG64-22	6626					6626	26591			26591	33217
4" CL3 ASPH BASE 1.000 PG64-22	5791					5791	22746			22746	28537
4" CL3 ASPH BASE 1.000 PG64-22	5791					5791	22746			22746	28537
1.5" CL3 ASPH SURF 0.380 PG64-22	3714					3714	15809			15809	19523
1.5" CL3 ASPH SURF 0.380 PG64-22	3714					3714	15809			15809	19523
3" CL3 ASPH BASE 1.000 PG64-22						0	5707			5707	5707
1" CL3 ASPH SURF 0.380 PG64-22						0	5707			5707	5707
4" CONCRETE MEDIAN	319					319	728			728	1047
8" REMOVE PAVEMENT	1932					1932	6791			6791	8723
1.25" CL4 ASPH SURF 0.38A PG76-22					434	434		557		557	991
3" CL4 ASPH BASE 1.000 PG76-22					217	217		278		278	495
3.75'/2" LEVELING & WEDGING 64PG-22					217	217		278		278	495
3/2" LEVELING & WEDGING 64PG-22					217	217		278		278	495
2.07 TONS/CUYD DGA					3	3		4		4	7
MILL AND OVERLAY											
1.5" CL4 ASPH SURF 0.38A PG76-22	20791	1454	8216			30461				0	30461
1.5" ASPHALT PAVE MILLING & TEXTURING	20791	1454	8216			30461				0	30461
1.5'/2" LEVELING & WEDGING PG76-22	4893					4893				0	4893
DIVERSIONS											
3" CL3 ASPH BASE 1.000 PG64-22	2880					2880	3652			3652	6532
3" CL3 ASPH BASE 1.000 PG64-22	2880					2880	3652			3652	6532
4" DGA BASE	2880					2880	3652			3652	6532
DRESS SHOULDERS											
ASPHALT SEAL COAT	2786					2786	8354			8354	11140
ASPHALT SEAL AGGREGATE	2786					2786	8354			8354	11140
2.07 TONS/CUYD DGA	706					706	1830			1830	2536

- ① INCLUDES REMOVAL OF ALL GRANULAR MATERIALS BELOW THE PAVEMENT. SAW CUTTING SHALL BE INCIDENTAL TO THIS BID ITEM.
- ② SHOULDER AREAS
- ③ MEDIAN AREAS
- ④ CONCRETE MEDIAN IS TO BE CONSTRUCTED OF CLASS A CONCRETE. USE WHERE THE WIDTH OF THE MEDIAN IS LESS THAN 4 FEET.
- ⑤ ASPHALT AREAS NOT REMOVED BY MILLING.
- ⑥ THIS ITEM REPORTED IN CUBIC YARDS.
- ⑦ TEMPORARY PAVEMENT FOR MAINTENANCE OF TRAFFIC PURPOSES. SEE MOT PLANS.

PAVEMENT SUMMARY -- JPC ALTERNATE QUANTITIES

ITEM CODE	ITEM	UNIT	WOODFORD					FAYETTE					PROJECT TOTAL					
			US 60	RAMP A	RAMP D	RAMP D-1	APPROACH	ENTRANCE (8)	COUNTY TOTAL	US 60	APPROACH	ENTRANCE (8)		COUNTY TOTAL				
1	DGA BASE	① TON	9232			537					6	9775	15979	357	8		16344	2619
20	TRAFFIC BOUND BASE	② TON										0			5		5	5
22	JPC PAVEMENT DRAINAGE BLANKET	③ TON	6506			467						6973	10366				10366	17339
100	ASPHALT SEAL AGGREGATE	④ TON	56									56	167				167	223
103	ASPHALT SEAL COAT	⑤ TON	7									7	20				20	27
190	LEVELING & WEDGING PG64-22	②⑥ TON	1000					40		3.2	1044	2000	52		19		2071	3115
194	LEVELING & WEDGING PG76-22	② TON	168								168						0	168
214	CL3 ASPH BASE 1.00D PG64-22	② TON	7192							9.8	7803	24034			27.6		24063	31866
217	CL4 ASPH BASE 1.00D PG64-22	② TON									1027						0	1027
219	CL4 ASPH BASE 1.00D PG76-22	② TON	2677			449		36			485		46				46	531
269	MODIFIED OPEN - GRADED DRAINAGE COURSE	③ TON									2677						11844	14521
339	CL3 ASPH SURF 0.38D PG64-22	② TON	779							4.2	784	3191			15.3		3207	3991
342	CL4 ASPH SURF 0.38A PG76-22	② TON	1715	120	678	193		36			2742		46				46	2788
358	ASPHALT CURING SEAL	TON	25			2					27		40				40	67
2058	REMOVE PCC PAVEMENT	SOYD	22529								22529	37574	939				38513	61042
2071	JPC PAVEMENT - 11 IN	SOYD	22529								22529	37574					37574	60103
2072	JPC PAVEMENT - 11 IN SHLD	SOYD	6212								6212	8478					8478	14690
2076	JPC PAVEMENT - 7 IN	SOYD	25522								25522	116408	939				117347	142869
2079	JPC PAVEMENT - 7 IN SHLD	SOYD	9044								9044	37643					37643	46687
2091	REMOVE PAVEMENT	SOYD	4074								4074	8502					8502	12576
2200	ROADWAY EXCAVATION	CUYD	3391			584					3975	6768					6768	10743
2585	EDGE KEY	LF			38						159	388.2	170		619.6		790	1376
2676	MOBILIZATION FOR MILLING & TEXTURING	LS									1						1	1
2677	ASPHALT PAVE MILLING & TEXTURING	TON	8025	120	678	770					9593	14011					14011	23604
2695	RUMBLE STRIPS TYPE 3	LF	1393								1393	4177					4177	5570
2696	SHOULDER RUMBLE STRIPS - SAWED	LF	2030	584	4808	1208					8630	0					0	8630
2702	SAND FOR BLOTTER	TON	77			6					83	123					123	206
3247	REPAIR BLOWUP	SOYD	200								200	200					200	400
10203ND	PAVEMENT ADJUSTMENT (CONCRETE)	LS									1						1	1
23385EC	CONCRETE MEDIAN	SOYD	709								709	1132					1132	1841

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH
- ② ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ④ ESTIMATED AT 20 LBS. PER SQ. YD. PER APPLICATION (2 REQUIRED).
- ⑤ ESTIMATED AT 2.40 LBS. PER SQ. YD. PER APPLICATION (2 REQUIRED).
- ⑥ INCLUDES 3000 TONS FOR LEVELING OF EXISTING PAVEMENT IN OVERLAY AREAS PRIOR TO PLACEMENT OF BOTTOM BASE LAYER AND FOR TEMPORARY WEDGES REQUIRED FOR MOT. USE ONLY AS REQUESTED OR AS APPROVED BY THE ENGINEER.
- ⑦ SEE SPECIAL NOTE IN THE PROPOSAL. USE ONLY WHEN DIRECTED BY THE ENGINEER.
- ⑧ BROUGHT FORWARD FROM THE ENTRANCE SUMMARY.

PAVEMENT SUMMARY -- JPC ALTERNATE QUANTITIES

ITEM CODE	ITEM	UNIT	WOODFORD				FAYETTE				PROJECT TOTAL						
			US 60	RAMP A	RAMP D	RAMP D-1	APPROACH	ENTRANCE (8)	COUNTY TOTAL	US 60		APPROACH	ENTRANCE (8)	COUNTY TOTAL			
1	DGA BASE	① TON	9232			537					6	9775	15979	357	8	16344	2619
20	TRAFFIC BOUND BASE	② TON										0			5	5	5
22	JPC PAVEMENT DRAINAGE BLANKET	③ TON	6506			467						6973	10366			10366	17339
100	ASPHALT SEAL AGGREGATE	④ TON	56									56	167			167	223
103	ASPHALT SEAL COAT	⑤ TON	7									7	20			20	27
190	LEVELING & WEDGING PG64-22	②⑥ TON	1000						40		3.2	1044	2000	52	19	2071	3115
194	LEVELING & WEDGING PG76-22	② TON	168									168				0	168
214	CL3 ASPH BASE 1.00D PG64-22	② TON	7792								9.8	7803	24034		27.6	24063	31866
217	CL4 ASPH BASE 1.00D PG64-22	② TON				1027						1027				0	1027
219	CL4 ASPH BASE 1.00D PG76-22	② TON				449			36			485	46			46	531
269	MODIFIED OPEN - GRADED DRAINAGE COURSE	③ TON	2677									2677	11844			11844	14521
339	CL3 ASPH SURF 0.38D PG64-22	② TON	779								4.2	784	3191		15.3	3207	3991
342	CL4 ASPH SURF 0.38A PG76-22	② TON	1715			120	678	193	36			2742	46			46	2788
358	ASPHALT CURING SEAL	TON	25			2						27	40			40	67
2058	REMOVE PCC PAVEMENT	SOYD	22529									22529	37574	939		38513	61042
2071	JPC PAVEMENT - 11 IN	SOYD	22529									22529	37574			37574	60103
2072	JPC PAVEMENT - 11 IN SHLD	SOYD	6212									6212	8478			8478	14690
2076	JPC PAVEMENT - 7 IN	SOYD	25522									25522	116408	939		117347	142869
2079	JPC PAVEMENT - 7 IN SHLD	SOYD	9044									9044	37643			37643	46687
2091	REMOVE PAVEMENT	SOYD	4074									4074	8502			8502	12576
2200	ROADWAY EXCAVATION	CUYD	3391			584						3975	6768			6768	10743
2585	EDGE KEY	LF				38			159		388.2	586		170	619.6	790	1376
2676	MOBILIZATION FOR MILLING & TEXTURING	LS										1				1	1
2677	ASPHALT PAVE MILLING & TEXTURING	TON	8025			770						9593	14011			14011	23604
2695	RUMBLE STRIPS TYPE 3	LF	1393									1393	4177			4177	5570
2696	SHOULDER RUMBLE STRIPS - SAWED	LF	2030			584	4808	1208				8630	0			0	8630
2702	SAND FOR BLOTTER	TON	77			6						83	123			123	206
3247	REPAIR BLOWUP	SOYD	200									200	200			200	400
10203ND	PAVEMENT ADJUSTMENT (CONCRETE)	LS										1				1	1
23385EC	CONCRETE MEDIAN	SOYD	709									709	1132			1132	1841

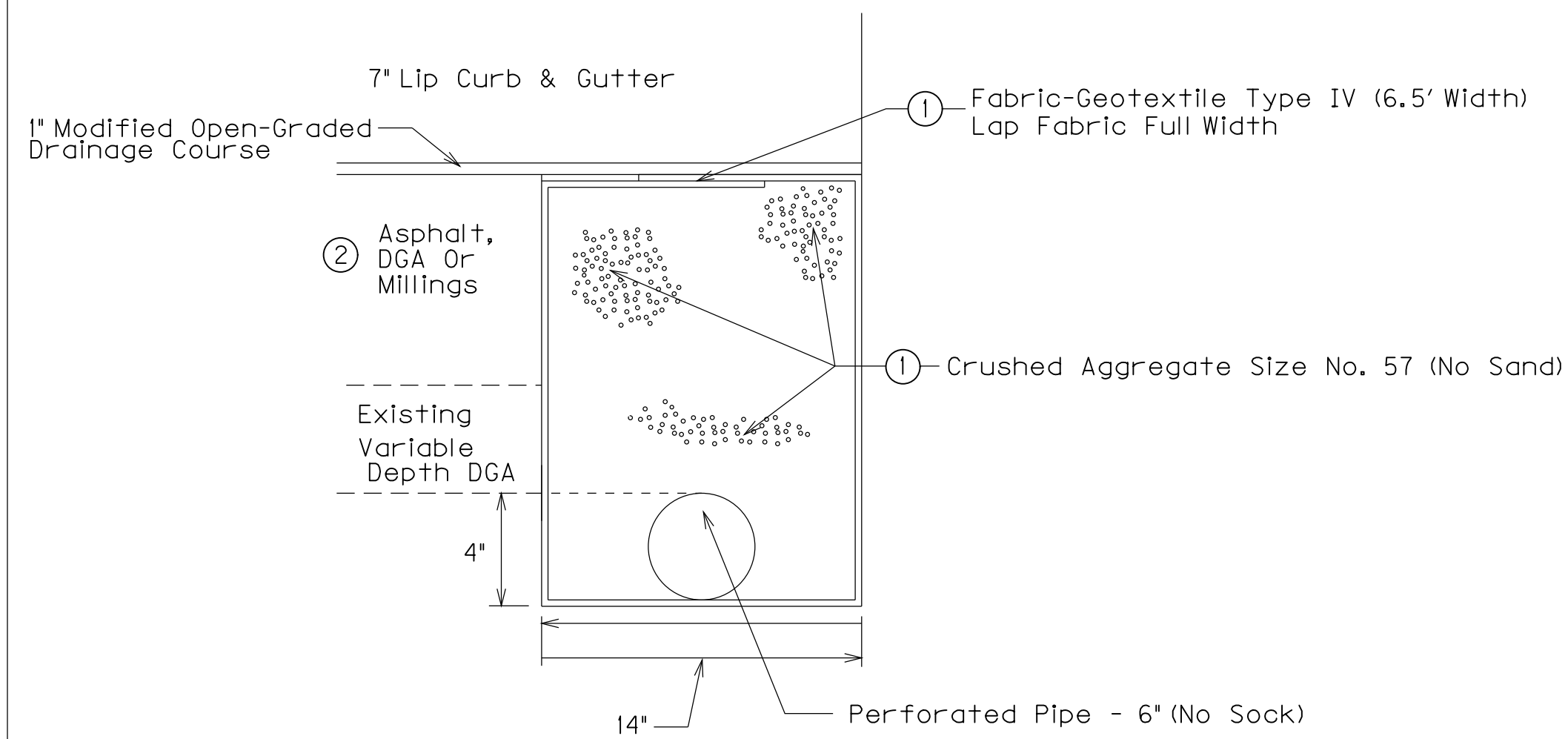
- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH
- ② ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ④ ESTIMATED AT 20 LBS. PER SQ. YD. PER APPLICATION (2 REQUIRED).
- ⑤ ESTIMATED AT 2.40 LBS. PER SQ. YD. PER APPLICATION (2 REQUIRED).
- ⑥ INCLUDES 3000 TONS FOR LEVELING OF EXISTING PAVEMENT IN OVERLAY AREAS PRIOR TO PLACEMENT OF BOTTOM BASE LAYER AND FOR TEMPORARY WEDGES REQUIRED FOR MOT. USE ONLY AS REQUESTED OR AS APPROVED BY THE ENGINEER.
- ⑦ SEE SPECIAL NOTE IN THE PROPOSAL. USE ONLY WHEN DIRECTED BY THE ENGINEER.
- ⑧ BROUGHT FORWARD FROM THE ENTRANCE SUMMARY.

US 60 PAVEMENT EDGE DRAIN DETAIL 4

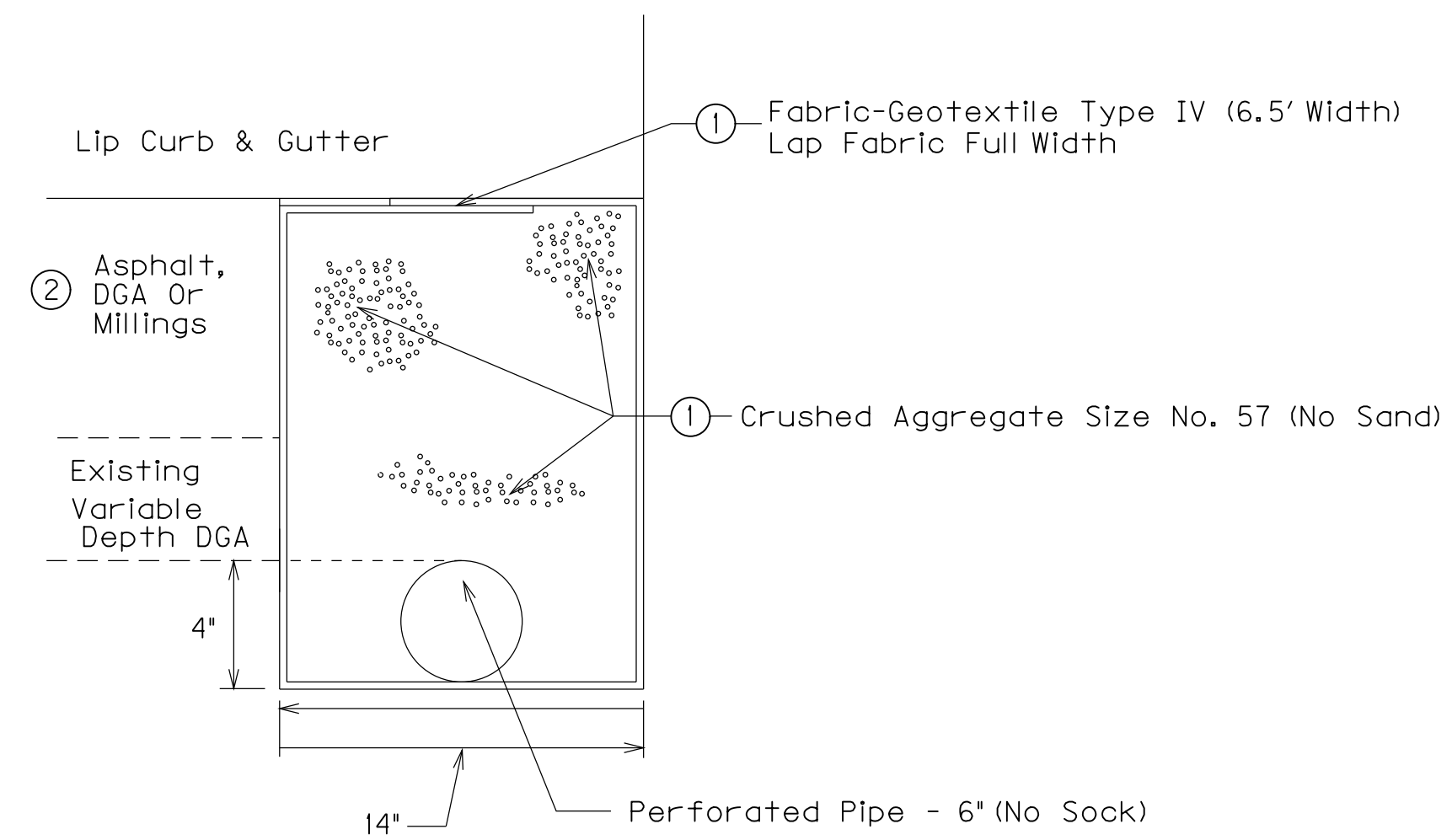
(MEDIAN)

COUNTY OF	ITEM NO.	SHEET NO.
WOODFORD FAYETTE	7-2033.00	R60

LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – JPC OVERLAY) ③



LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – PAVEMENT OVERLAY) ④

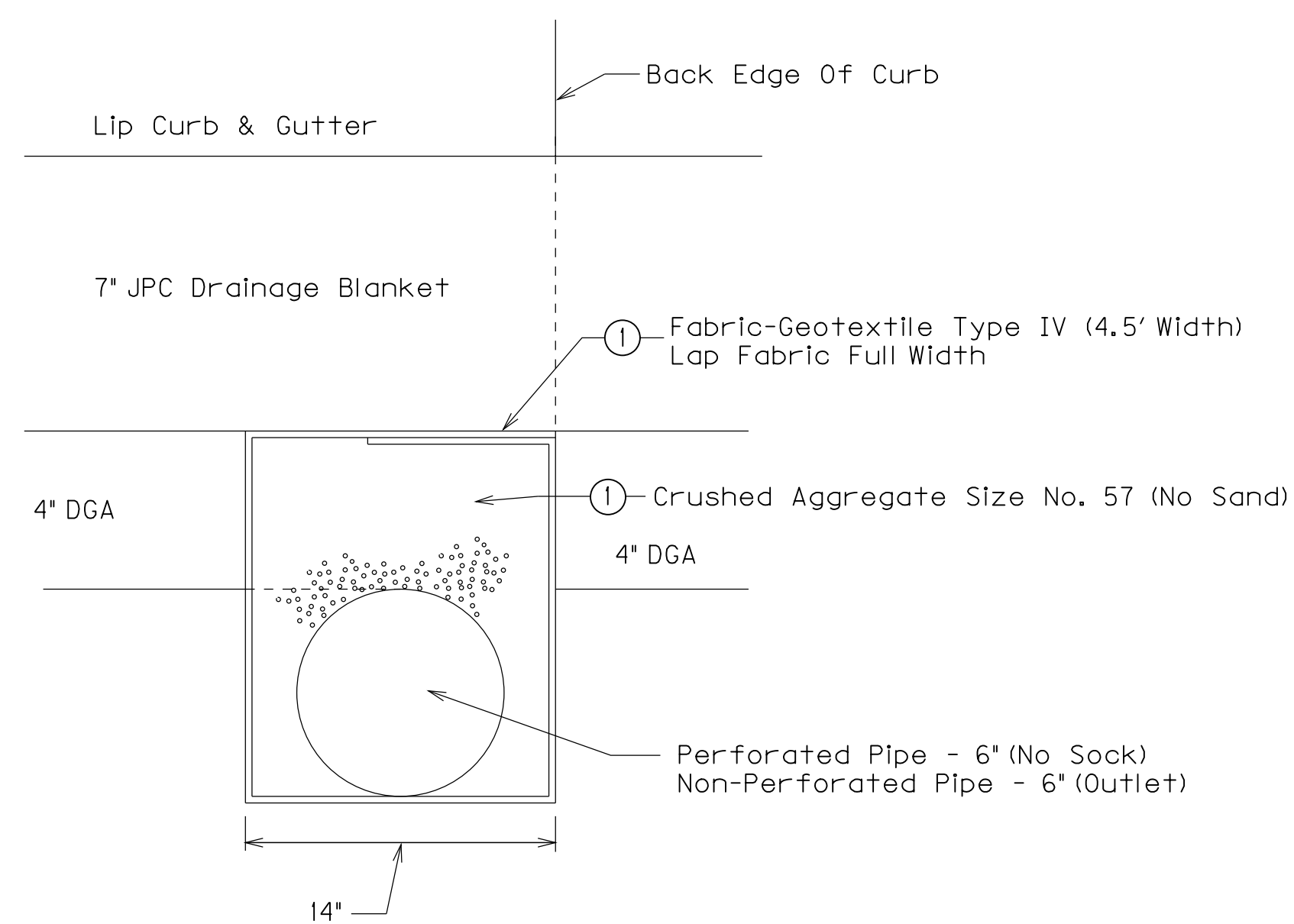


- ① These Items And All Other Cost Associated With Installing The Edge Drains, Including Excavating The Trench, Considered Incidental To Perforated Pipe 6"
- ② See Typical Sections
- ③ APPLIES ONLY TO STATIONS RELATED TO DETAIL A ON SHEETS R2F AND R2g.
- ④ APPLIES TO ALL OVERLAY AREAS (ASPHALT OR JPC PAVEMENT ALTERNATES) OTHER THAN THOSE INCLUDED IN ③ ABOVE.

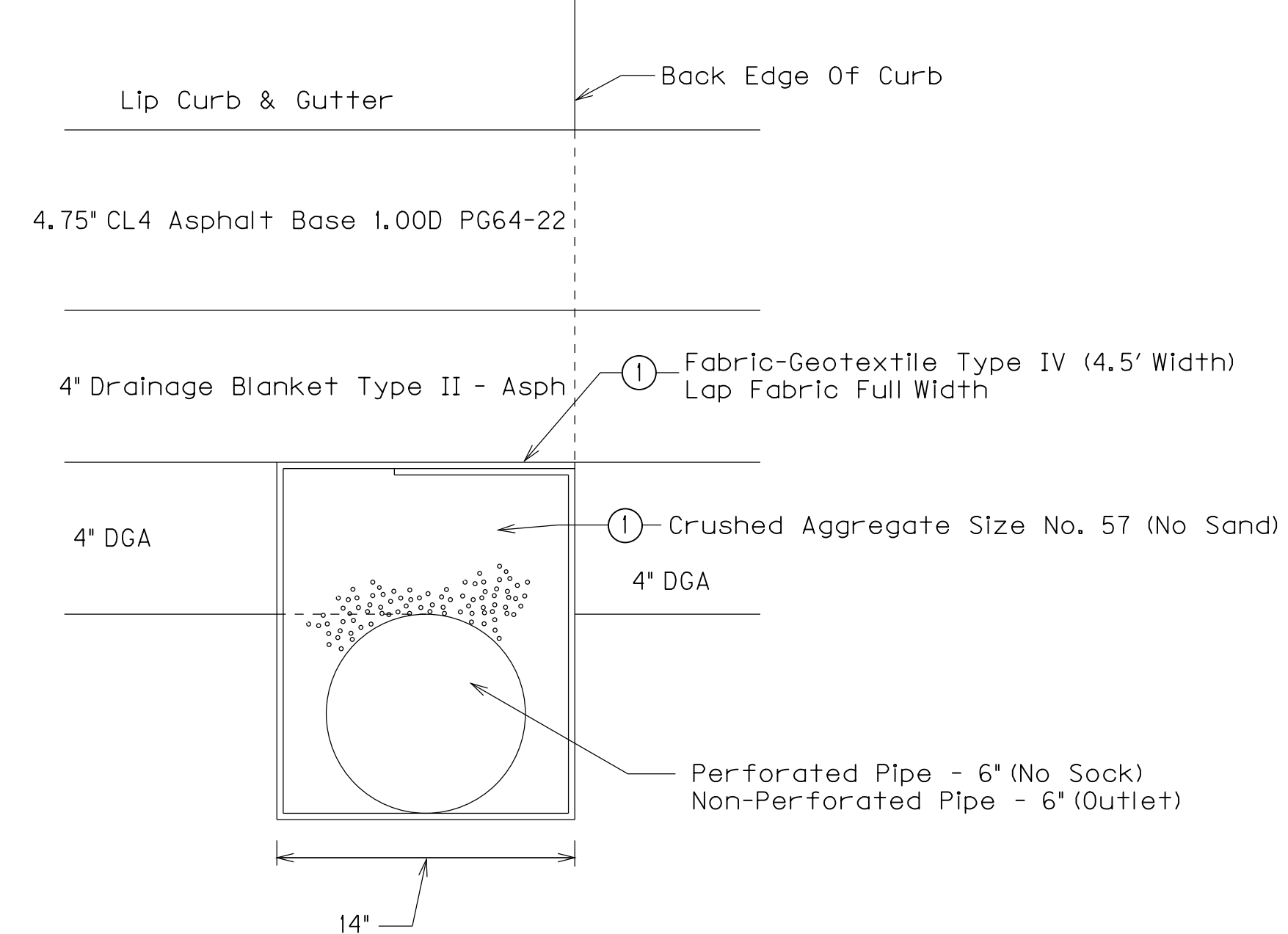
NOTE: Removal Of Asphalt Required To Place The Perforated Pipe Will Be Paid For By The 'Remove Pavement' Bid Item.

Any Saw Cutting And Removing Existing Perforated Pipe To Place The Perforated Pipe Will Be Incidental To The Perforated Pipe Bid Item.

LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – JPC FULL DEPTH PAVEMENT REPLACEMENT)

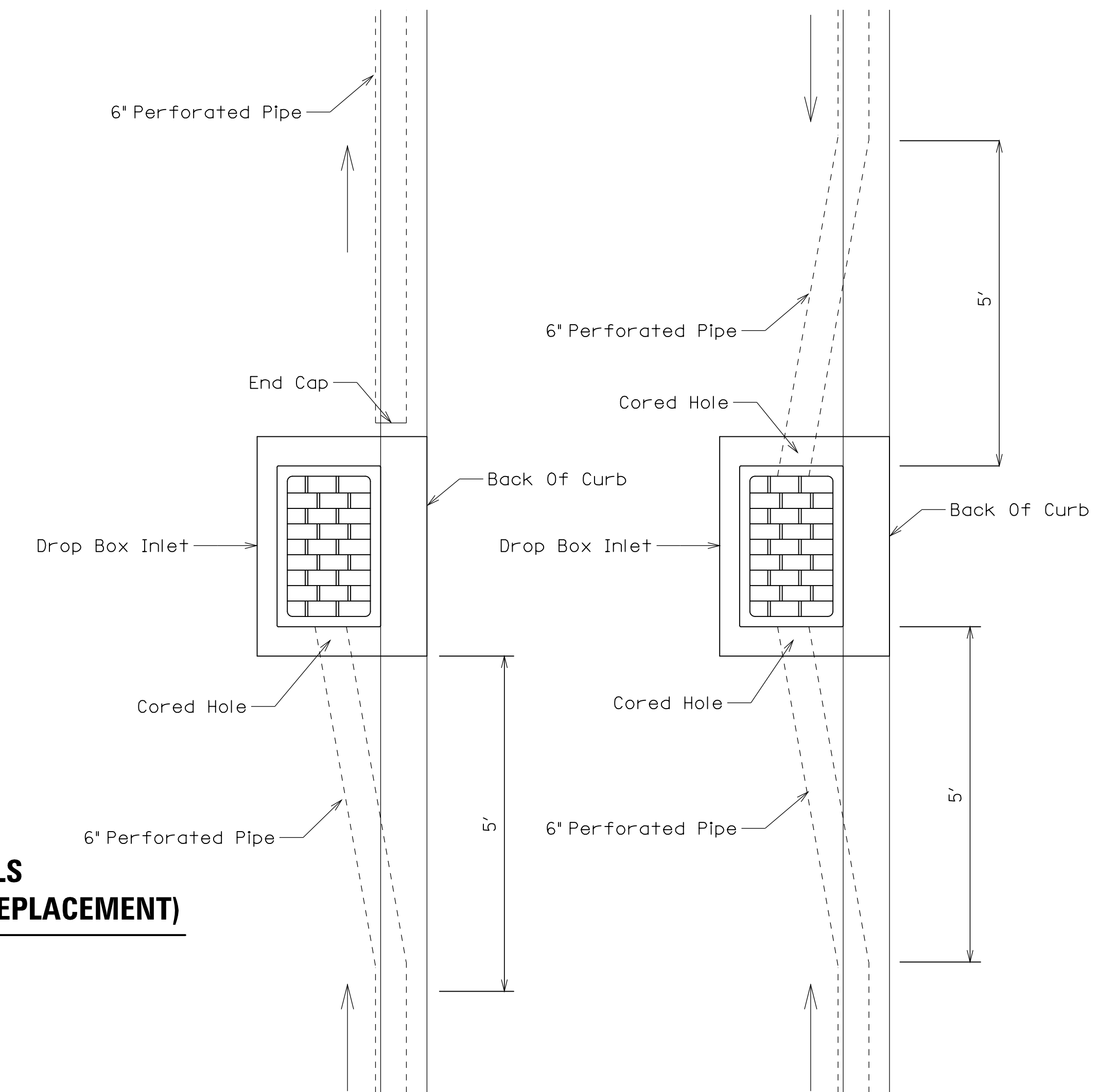


LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – FULL DEPTH ASPHALT PAVEMENT REPLACEMENT)



USE ON GRADES

USE IN SAGS



Not To Scale

PAVEMENT EDGE DRAIN DETAIL 4

FILE NAME: P:\CIVIL\US60.7-2033.00\CONTRACT PLANS AND PROPOSAL\REVISED AFTER SUBMITTAL\PLANS REVISION 2\R0600005.DGN

USER: fvonbehren
DATE PLOTTED: December 5, 2012

E-SHEET NAME:

MicroStation v8.11.7.443

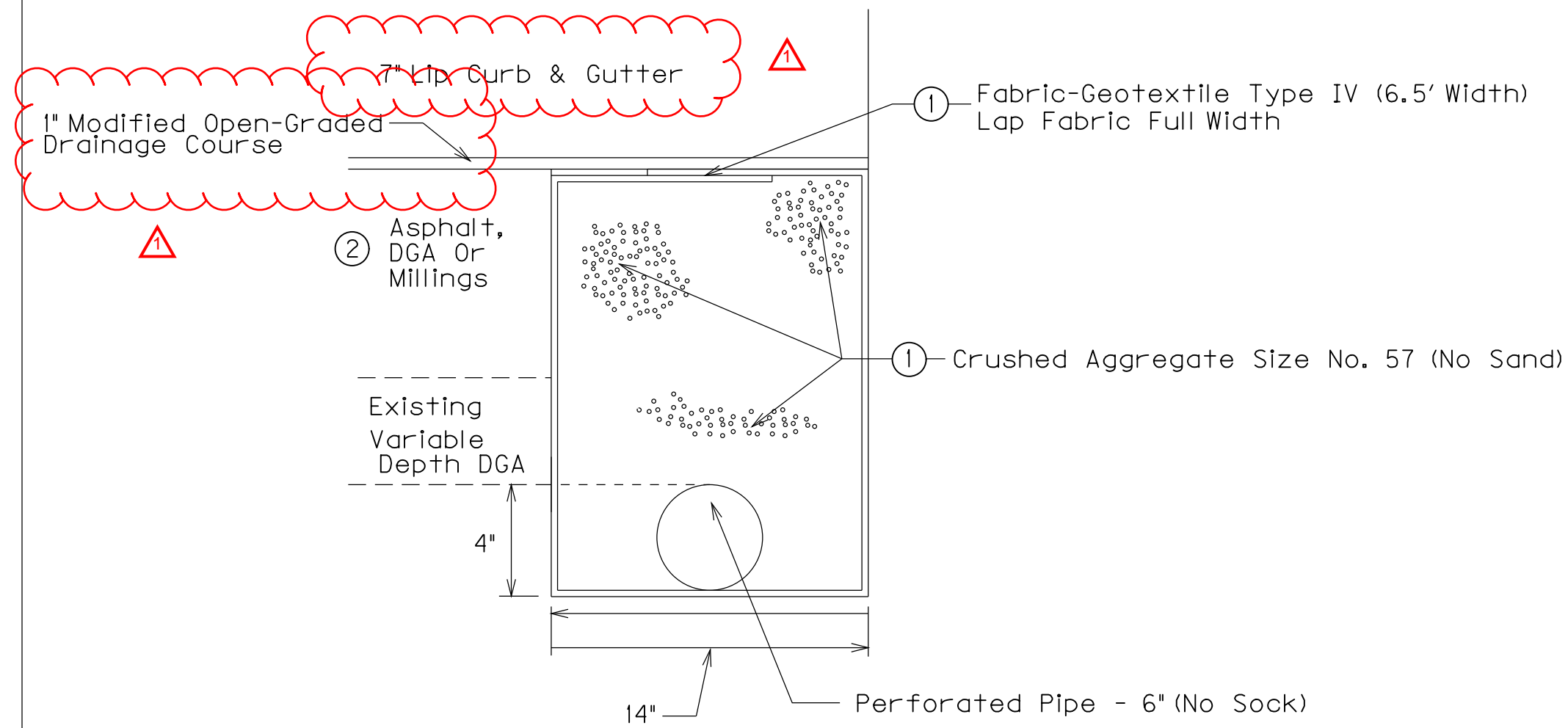
US 60 PAVEMENT EDGE DRAIN DETAIL 4

(MEDIAN)

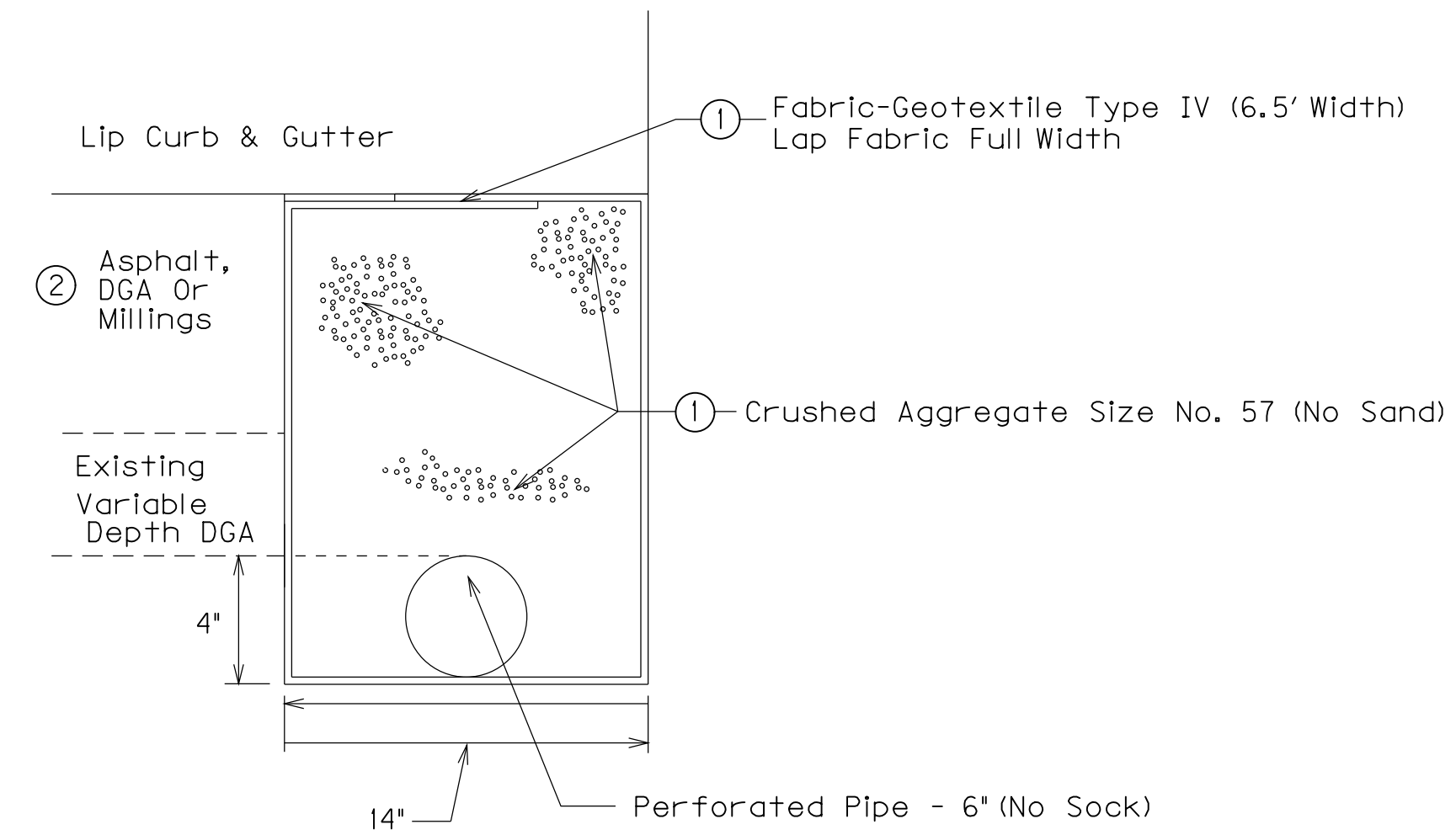
COUNTY OF	ITEM NO.	SHEET NO.
WOODFORD FAYETTE	7-2033.00	R60

REVISD 12-6-12

LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – JPC OVERLAY) ③



LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – PAVEMENT OVERLAY) ④



① These Items And All Other Cost Associated With Installing The Edge Drains, Including Excavating The Trench, Considered Incidental To Perforated Pipe 6"

② See Typical Sections

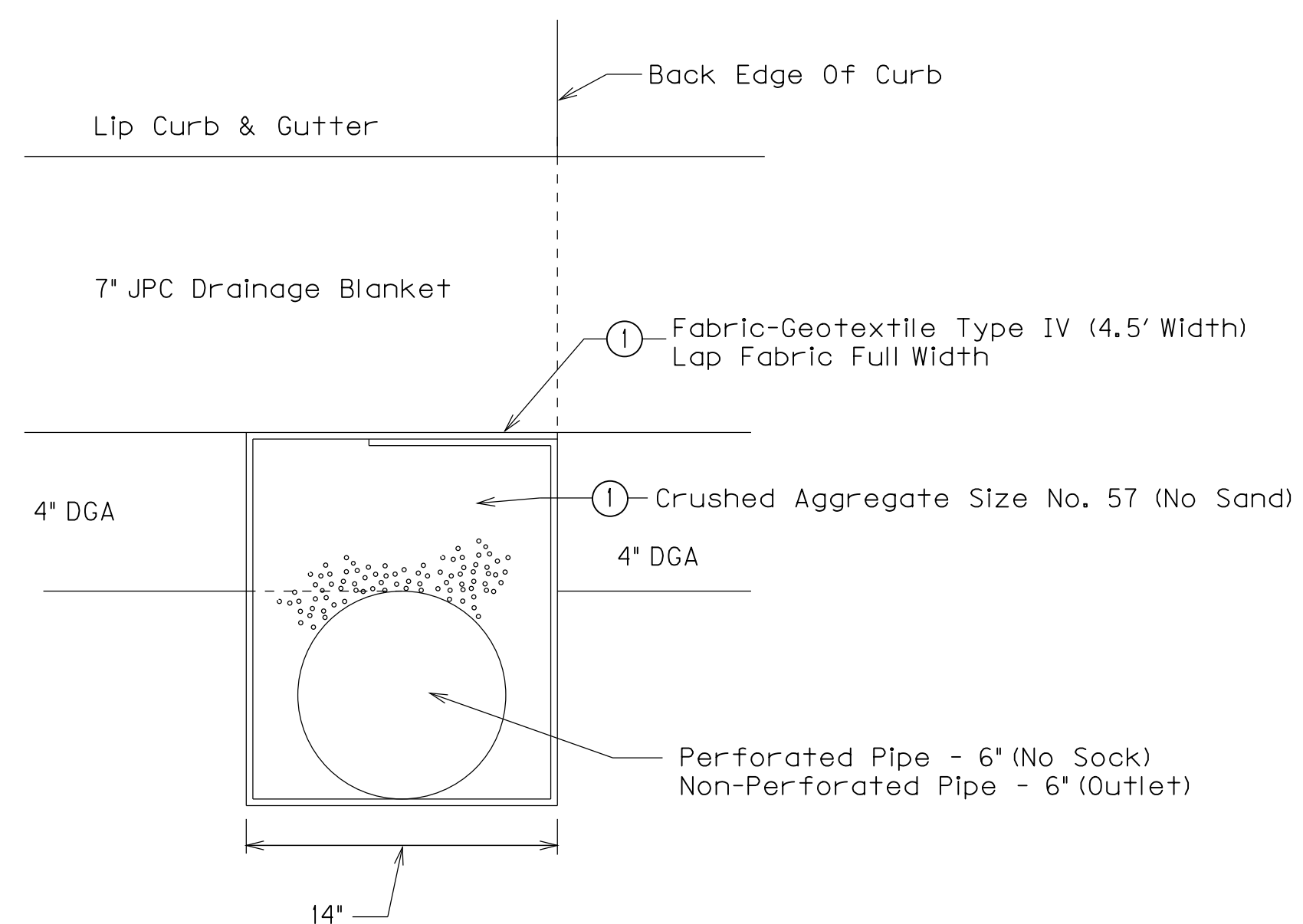
③ APPLIES ONLY TO STATIONS RELATED TO DETAIL A ON SHEETS R2F AND R2g.

④ APPLIES TO ALL OVERLAY AREAS (ASPHALT OR JPC PAVEMENT ALTERNATES) OTHER THAN THOSE INCLUDED IN ③ ABOVE.

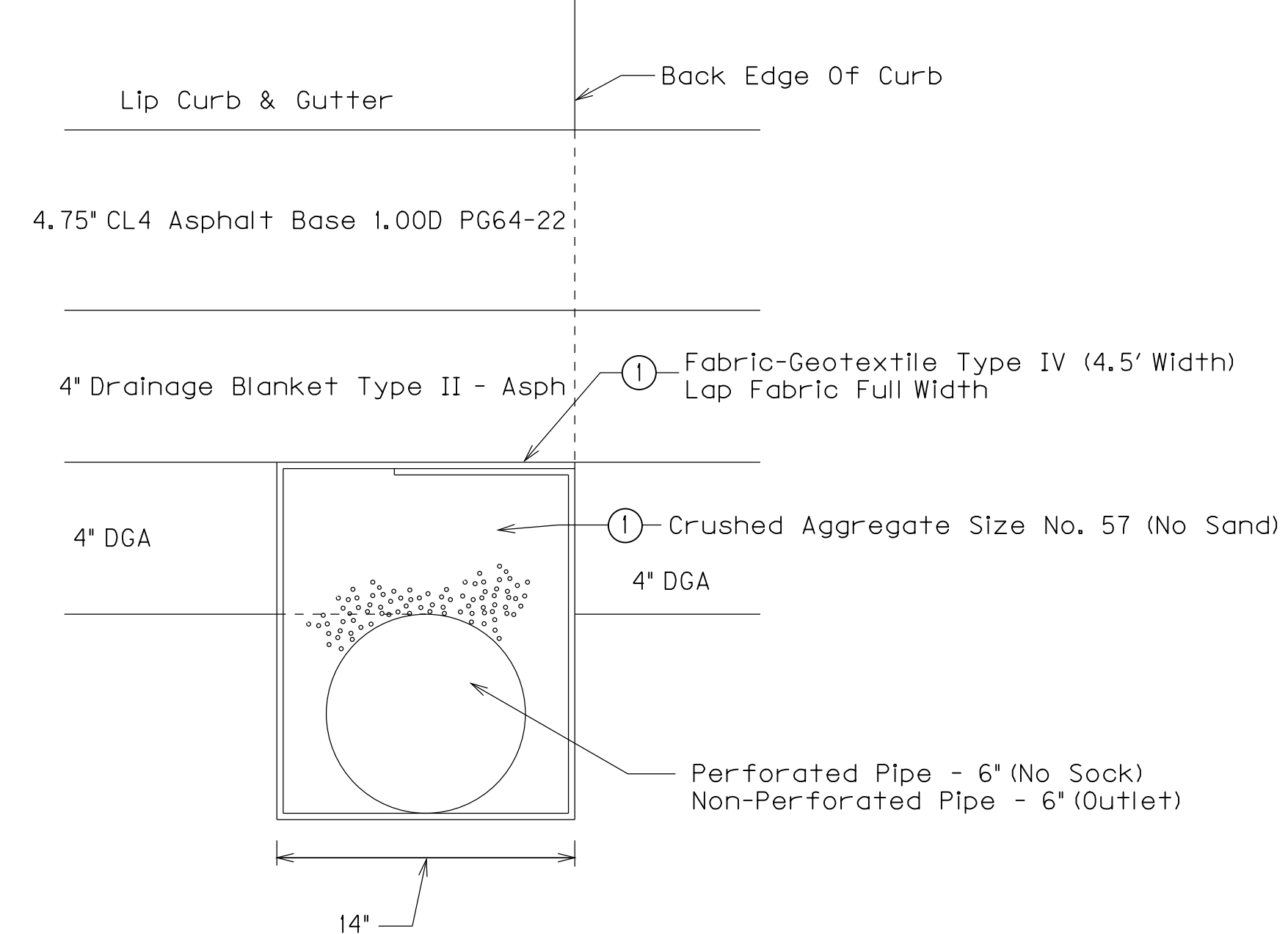
NOTE: Removal Of Asphalt Required To Place The Perforated Pipe Will Be Paid For By The 'Remove Pavement' Bid Item.

Any Saw Cutting And Removing Existing Perforated Pipe To Place The Perforated Pipe Will Be Incidental To The Perforated Pipe Bid Item.

LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – JPC FULL DEPTH PAVEMENT REPLACEMENT)

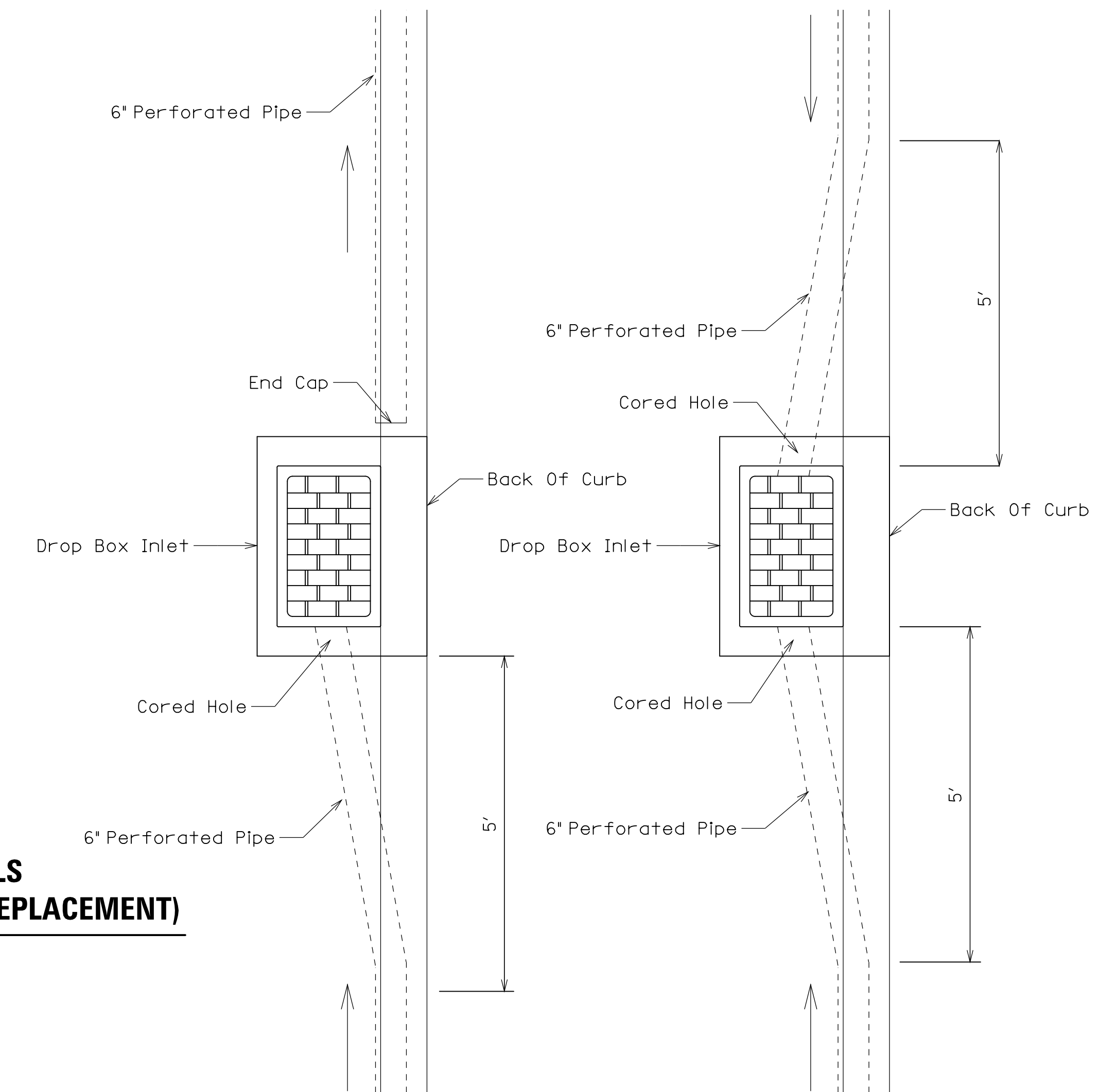


LONGITUDINAL PAVEMENT EDGE DRAIN DETAILS (PERFORATED PIPE – FULL DEPTH ASPHALT PAVEMENT REPLACEMENT)



USE ON GRADES

USE IN SAGS



Not To Scale

PAVEMENT EDGE DRAIN DETAIL 4

FILE NAME: P:\CIVIL\US60.7-2033.00\CONTRACT PLANS AND PROPOSAL\REVISIONS AFTER SUBMITTAL\PLANS REVISION 2\R0600005.DGN

USER: fvonbehren
DATE PLOTTED: December 5, 2012

E-SHEET NAME:

MicroStation v8.11.7.443

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

HUNTERTOWN * PISGAH PIKE * WESTMORLAND RD/ KEENELAND GATE 2 MAN O WAR BLVD
ROAD OLD VERSAILLES RD (OLD CLUBHOUSE RD)

ASPHALT		CONCRETE		ASPHALT		CONCRETE		ASPHALT		CONCRETE		TOTAL	TOTAL	UNITS	CODE	ITEM DESCRIPTION
ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE			
1	1	1	1	4	4	0	0	0	0	6	6	EACH	4740			POLE BASE
40	50	40	40	0	0	50	110	35	35	165	235	LIN FT	4792			CONDUIT 1 INCH
1,100	1,100	1,000	1,000	3,865	3865	320	320	0	0	6,285	6,285	LIN FT	4793			CONDUIT 1 1/4 INCH
40	40	40	40	220	220	820	820	0	0	1,120	1,120	LIN FT	4795			CONDUIT 2 INCH
0	0	0	0	0	0	20	20	0	0	20	20	EACH	4797			CONDUIT 3 INCH
9	9	7	7	6	6	6	6	0	0	28	28	LIN FT	4811			ELECTRICAL JUNCTION BOX TYPE B
1,180	1,180	1,080	1,080	2,600	2600	935	935	0	0	5,795	5,795	LIN FT	4820			TRENCHING AND BACKFILLING
35	35	0	0	50	50	10	10	0	0	95	95	LIN FT	4821			OPEN CUT ROADWAY
1,715	0	1,400	0	0	0	1,670	0	0	0	4,785	0	LIN FT	4830			LOOP WIRE
3,600	3,600	3,100	3,100	4,625	4625	0	0	0	0	11,325	11,325	LIN FT	4844			CABLE-NO. 14/5C
0	0	0	0	375	375	575	575	15	15	965	965	LIN FT	4845			CABLE-NO. 14/7C
870	870	665	665	0	0	5,205	5,205	0	0	6,740	6,740	LIN FT	4850			CABLE-NO. 14/1 PAIR
276	276	276	276	0	0	530	530	0	0	1,082	1,082	LIN FT	4885			MESSENGER-10800 LB
525	525	535	535	220	220	0	0	0	0	1,280	1,280	LIN FT	4886			MESSENGER-15400 LB
0	165	0	160	0	0	0	390	0	0	0	715	LIN FT	4894			PREFORMED LOOP/LEAD-IN
665	0	560	0	0	0	575	0	0	0	1,800	0	LIN FT	4895			LOOP SAW SLOT AND FILL
1	1	1	1	0	0	0	0	0	0	2	2	EACH	4931			INSTALL SIG CONTROLLER-TYPE 170
6	6	6	6	2	2	4	4	0	0	18	18	EACH	4932			INSTALL STEEL STRAIN POLE
1	1	1	1	1	1	1	1	0	0	4	4	EACH	4950			REMOVE SIGNAL EQUIPMENT
0	0	0	0	1	1	0	0	0	0	1	1	EACH	6472			INSTALL SPAN MOUNTED SIGN
2	2	0	0	0	0	0	0	0	0	2	2	EACH	20093NS835			INSTALL PEDESTRIAN HEAD LED
12	12	12	12	8	8	12	12	12	12	56	56	EACH	20094ES835			TEMPORARY RELOCATION OF SIGNAL HEAD
6	6	6	6	0	0	8	8	1	1	21	21	EACH	20188NS835			INSTALL SIGNAL-3 SECTION LED
4	4	4	4	0	0	0	0	0	0	8	8	EACH	20266ES835			INSTALL SIGNAL-4 SECTION LED
0	0	0	0	9	9	2	2	0	0	11	11	EACH	2039INS835			ELECTRICAL JUNCTION BOX TYPE A
4	4	4	4	8	8	0	0	0	0	16	16	EACH	20408NS835			INSTALL SIGNAL-12" LED
0	0	0	0	0	0	0	240	0	0	0	240	LIN FT	20452ES835			PREFORMED LOOPS
0	510	0	408	0	0	0	102	0	0	0	1,020	LIN FT	20453ES835			PREFORMED QUADRAPOLE LOOPS
0	0	0	0	0	0	1	1	2	2	3	3	EACH	20455NS835			VIDEO CAMERA
0	0	0	0	220	220	250	250	0	0	470	470	LIN FT	21543EN			BORE AND JACK CONDUIT
0	0	0	0	0	0	0	0	1	1	1	1	EACH	21659NN			RELOCATE SIGNAL HEAD
2	2	0	0	0	0	0	0	0	0	2	2	EACH	21743NN			INSTALL PEDESTRIAN DETECTOR
1	1	1	1	4	4	0	0	0	0	6	6	EACH	22939ND			INSTALL LUMINAIRE POLE
1	1	1	1	0	0	0	0	0	0	2	2	EACH	23068NN			REMOVE & REINSTALL COORDINATING UNIT
28.0	28.0	31.1	31.1	11.3	11.3	19.6	19.6	0	0	90.0	90.0	CU YD	23157EN			TRAFFIC SIGNAL POLE BASE
0	0	0	0	1	1	1	1	0	0	2	2	EACH	23206EC			INSTALL CONTROLLER CABINET
2	2	0	0	0	0	0	0	0	0	2	2	EACH	23235EC			INSTALL PEDESTAL POST
1	1	1	1	0	0	0	0	0	0	2	2	EACH	24525EC			ADVANCE WARNING FLASHER
0	0	0	0	0	0	1	1	0	0	1	1	EACH	24526ED			INSTALL BEACON CONTROLLER-2 CIRCUIT
0	0	0	0	0	0	1	1	0	0	1	1	EACH	24555ED			SIGNAL CONTROLLER
0	0	0	0	2	2	0	0	0	0	2	2	EACH	24568ED			ELECTRONIC SIGN

* DENOTES INTERSECTION IS IN WOODFORD COUNTY.
OTHERWISE INTERSECTION IS IN FAYETTE COUNTY.

DESIGNED BY: DF
DATE SUBMITTED: 20121107
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF WOODFORD/FAYETTE
PROJECT NH 1601 (023) NUMBERS: FD52 034 0060 000-005 & FD52 120 0060 011-014
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

FILE NAME: T1 THRU T9 ALL SIGNAL STDS.DGN

USER: FRANKEDG
DATE PLOTTED: December 3, 2012

E-SHEET NAME:

MicroStation v8.11.7.180

9/7/2012

△ REVISED 12-3-12

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

HUNTERTOWN * PISGAH PIKE * WESTMORLAND RD/ KEENELAND GATE 2 MAN O WAR BLVD
ROAD OLD VERSAILLES RD (OLD CLUBHOUSE RD)

ASPHALT		CONCRETE		ASPHALT		CONCRETE		ASPHALT		CONCRETE		TOTAL	TOTAL	UNITS	CODE	ITEM DESCRIPTION
ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE	ASPHALT	CONCRETE			
1	1	1	1	4	4	0	0	0	0	6	6	EACH	4740			POLE BASE
△ 40	50	40	40	0	0	△ 50	110	35	35	△ 165	235	LIN FT	4792			CONDUIT 1 INCH
1,100	1,100	1,000	1,000	3,865	3,865	320	320	0	0	6,285	6,285	LIN FT	4793			CONDUIT 1 1/4 INCH
40	40	40	40	220	220	△ 820	820	0	0	△ 1,120	1,120	LIN FT	4795			CONDUIT 2 INCH
0	0	0	0	0	0	20	20	0	0	20	20	EACH	4797			CONDUIT 3 INCH
9	9	7	7	6	6	6	6	0	0	28	28	LIN FT	4811			ELECTRICAL JUNCTION BOX TYPE B
△ 1,180	1,180	1,080	1,080	2,600	2,600	△ 935	935	0	0	△ 5,795	5,795	LIN FT	4820			TRENCHING AND BACKFILLING
35	35	0	0	50	50	10	10	0	0	95	95	LIN FT	4821			OPEN CUT ROADWAY
1,715	0	1,400	0	0	0	△ 1,670	0	0	0	△ 4,785	0	LIN FT	4830			LOOP WIRE
△ 3,600	3,600	3,100	3,100	4,625	4,625	0	0	0	0	△ 11,325	11,325	LIN FT	4844			CABLE-NO. 14/5C
0	0	0	0	375	375	575	575	15	15	965	965	LIN FT	4845			CABLE-NO. 14/7C
870	870	665	665	0	0	5,205	5,205	0	0	△ 6,740	6,740	LIN FT	4850			CABLE-NO. 14/1 PAIR
△ 276	276	276	276	0	0	530	530	0	0	△ 1,082	1,082	LIN FT	4885			MESSENGER-10800 LB
525	525	535	535	220	220	0	0	0	0	△ 1,280	1,280	LIN FT	4886			MESSENGER-15400 LB
0	165	0	160	0	0	0	390	0	0	0	715	LIN FT	4894			PREFORMED LOOP/LEAD-IN
665	0	△ 560	0	0	0	△ 575	0	0	0	△ 1,800	0	LIN FT	4895			LOOP SAW SLOT AND FILL
1	1	1	1	0	0	0	0	0	0	2	2	EACH	4931			INSTALL SIG CONTROLLER-TYPE 170
6	6	6	6	2	2	4	4	0	0	18	18	EACH	4932			INSTALL STEEL STRAIN POLE
1	1	1	1	1	1	1	1	0	0	4	4	EACH	4950			REMOVE SIGNAL EQUIPMENT
0	0	0	0	1	1	0	0	0	0	1	1	EACH	6472			INSTALL SPAN MOUNTED SIGN
2	2	0	0	0	0	0	0	0	0	2	2	EACH	20093NS835			INSTALL PEDESTRIAN HEAD LED
12	12	12	12	8	8	12	12	12	12	56	56	EACH	20094ES835			TEMPORARY RELOCATION OF SIGNAL HEAD
6	6	6	6	0	0	8	8	1	1	21	21	EACH	20188NS835			INSTALL SIGNAL-3 SECTION LED
4	4	4	4	0	0	0	0	0	0	8	8	EACH	20266ES835			INSTALL SIGNAL-4 SECTION LED
0	0	0	0	9	9	△ 2	2	0	0	△ 11	11	EACH	2039INS835			ELECTRICAL JUNCTION BOX TYPE A
4	4	4	4	8	8	0	0	0	0	16	16	EACH	20408NS835			INSTALL SIGNAL-12" LED
0	0	0	0	0	0	0	240	0	0	0	240	LIN FT	20452ES835			PREFORMED LOOPS
0	510	0	408	0	0	0	102	0	0	0	1,020	LIN FT	20453ES835			PREFORMED QUADRAPOLE LOOPS
0	0	0	0	0	0	1	1	2	2	3	3	EACH	20455NS835			VIDEO CAMERA
0	0	0	0	220	220	△ 250	250	0	0	△ 470	470	LIN FT	21543EN			BORE AND JACK CONDUIT
0	0	0	0	0	0	0	0	1	1	1	1	EACH	21659NN			RELOCATE SIGNAL HEAD
2	2	0	0	0	0	0	0	0	0	2	2	EACH	21743NN			INSTALL PEDESTRIAN DETECTOR
1	1	1	1	4	4	0	0	0	0	6	6	EACH	22939ND			INSTALL LUMINAIRE POLE
1	1	1	1	0	0	0	0	0	0	2	2	EACH	23068NN			REMOVE & REINSTALL COORDINATING UNIT
△ 28.0	28.0	31.1	31.1	11.3	11.3	19.6	19.6	0	0	△ 90.0	90.0	CU YD	23157EN			TRAFFIC SIGNAL POLE BASE
0	0	0	0	1	1	1	1	0	0	2	2	EACH	23206EC			INSTALL CONTROLLER CABINET
2	2	0	0	0	0	0	0	0	0	2	2	EACH	23235EC			INSTALL PEDESTAL POST
1	1	1	1	0	0	0	0	0	0	2	2	EACH	24525EC			ADVANCE WARNING FLASHER
0	0	0	0	0	0	1	1	0	0	1	1	EACH	24526ED			INSTALL BEACON CONTROLLER-2 CIRCUIT
0	0	0	0	0	0	1	1	0	0	1	1	EACH	24555ED			SIGNAL CONTROLLER
0	0	0	0	2	2	0	0	0	0	2	2	EACH	24568ED			ELECTRONIC SIGN

* DENOTES INTERSECTION IS IN WOODFORD COUNTY.
OTHERWISE INTERSECTION IS IN FAYETTE COUNTY.

DESIGNED BY: DF
DATE SUBMITTED: 20121107
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF WOODFORD/FAYETTE
PROJECT NH 1601 (023) NUMBERS: FD52 034 0060 000-005 & FD52 120 0060 011-014
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

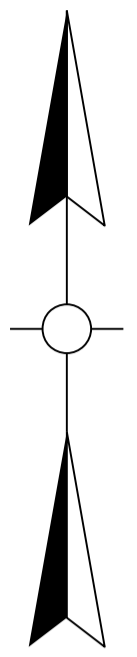
FILE NAME: T1 THRU T9 ALL SIGNAL STDS.DGN

USER: FRANKEDG
DATE PLOTTED: December 3, 2012

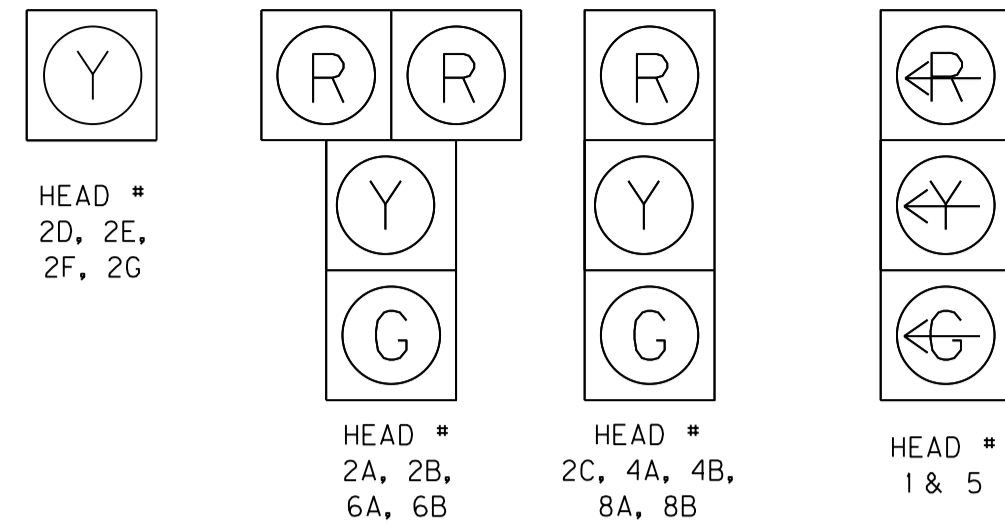
E-SHEET NAME:

MicroStation v8.11.7.180

9/7/2012



SIGNAL HEADS



HEAD #
2D, 2E,
2F, 2G

HEAD #
2A, 2B,
6A, 6B

HEAD #
2C, 4A, 4B,
8A, 8B

HEAD #
1 & 5

ALL INDICATIONS L.E.D.
ALL MAINLINE HEADS WILL HAVE
REFLECTIVE BACKPLATES

SIGNAL SPANS

SPAN WIRE	MESSENGER WIRE LBS	SAG %	ATTACHMENT HEIGHT		NO. SIGNALS/ SIGNS	SPACING		
			POLE	FT		FROM	TO	FT
1	15,400	5.0	A	27.5	2-3 SEC.	A	4A	95.0
			B	30.5		4B	113.0	
2	15,400	4.0	B	32.0	1-3 SEC. 2-4 SEC.	B	5	89.0
			C	30.0		2A	101.0	
						2B	113.0	
3	15,400	4.0	C	31.0	2-3 SEC.	C	8A	14.0
			D	31.0		8B	26.0	
4	15,400	4.0	D	31.0	1-3 SEC. 2-4 SEC.	D	1	38.0
			A	33.5		6A	50.0	
						6B	62.0	
5	10,800	3.0	E	32.0	1-1 SEC. SIGN	E	2D	83.0
			F	32.0		2E	95.0	

DATE 12/03/12
PREPARED BY D. FRANK
CHECKED BY
APPROVED BY

- INSTALL STEEL STRAIN POLE E AT STA 155+17, 67' LT
- INSTALL JUNCTION BOXES B2, B3, B4 AND B5. SPACE JBS EVENLY BETWEEN JB B2 AND JB B6 AT APPROX. 225 FEET APART.
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B6 TO JB B5, TO JB B4, TO JB B3, TO JB B2, AND TO POLE E. OPEN CUT ACROSS DRIVEWAY.
- INSTALL ADVANCE WARNING FLASHERS AND SIGN ACROSS ROADWAY PER DETAIL.
- INSTALL SIDE-MOUNTED ADVANCE WARNING FLASHER AS PER DETAIL ON SHEET T11.
- INSTALL 1-1/4" RIGID CONDUIT FROM CABINET TO TRAFFIC BEACONS ON SPAN

- INSTALL STEEL STRAIN POLE A AT STA 164+55.5, 71.6' LT
- INSTALL TYPE 170 CONTROLLER IN MODEL 332 BASE MOUNT CABINET
- INSTALL 4- 2" RIGID STEEL CONDUIT FROM CONTROLLER CABINET TO POLE A
- INSTALL JUNCTION BOXES B6 AND B7
- INSTALL 1 1/4" RIGID CONDUITS FROM CABINET TO JB B6 AND B7
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B6 AND B7
- REMOVE EXISTING ANTENNA FROM EXISTING POLE C AND REINSTALL ON NEW POLE A.

CONTRACTOR SHALL EXERCISE EXTREME CAUTION AROUND ALL UTILITIES TO INCLUDE THE GAS AND WATER LINES AND OVERHEAD UTILITIES. HAND DIG WHEN WITHIN FOUR FEET. NOTE THAT ALL UTILITIES ARE NOT SHOWN.

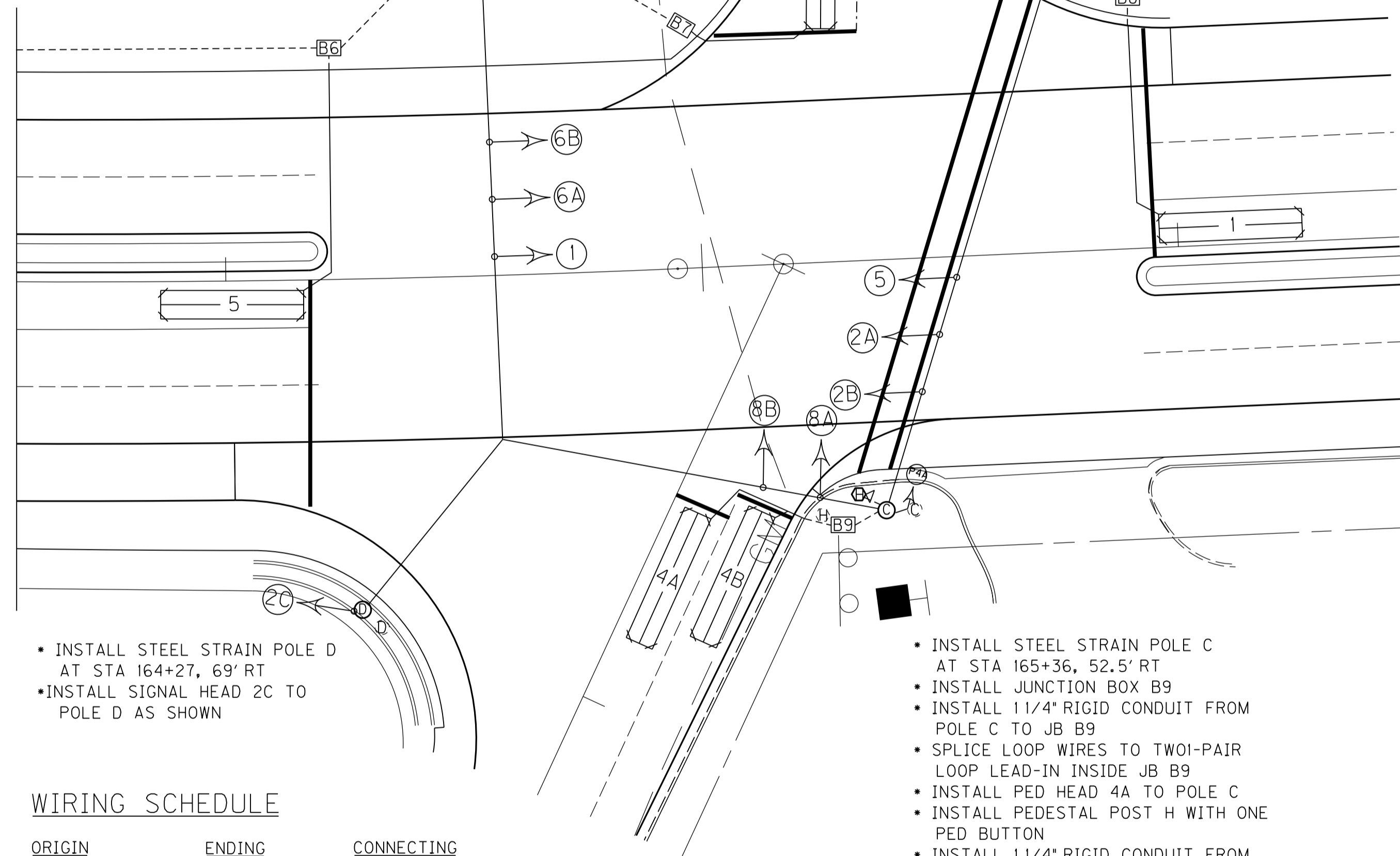
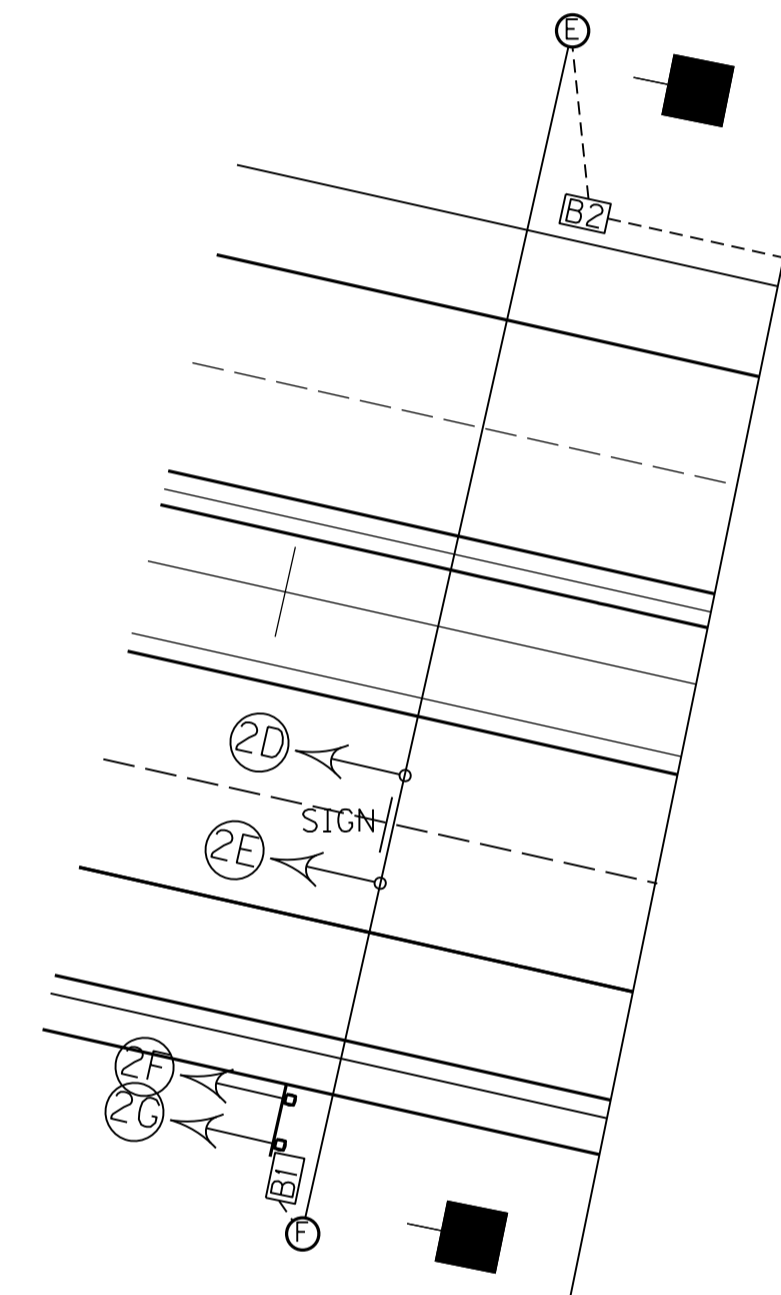
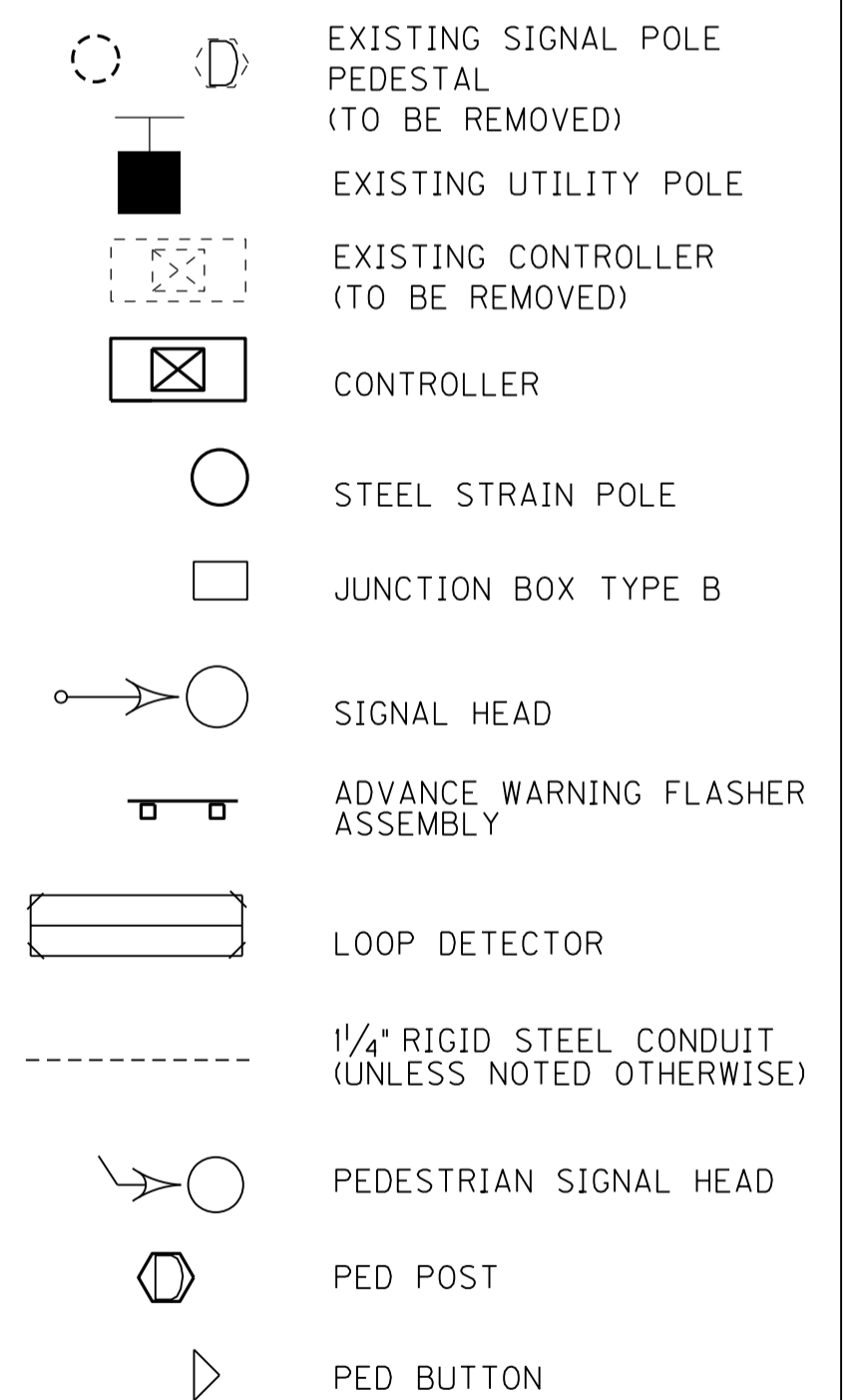
- INSTALL STEEL STRAIN POLE B AT STA 165+82, 80' LT
- INSTALL JUNCTION BOX B8
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE B TO JB B8
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B8
- INSTALL PED HEAD 4B TO POLE B
- INSTALL PEDESTAL POST G WITH ONE PED BUTTON
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE B TO PEDESTAL POST G

TRAFFIC SIGNAL POLES

POLE	POLE HEIGHT FT	STRINGING TENSION AT YIELD LBS	CALCULATED SERVICE MOMENT FT-KIPS	MAXIMUM DEFLECTION RATE
A	36	9,192	189	0.632
B	34	9,390	188	0.590
C	34	8,452	161	0.671
D	34	8,698	170	0.613
E	34	7,294	145	0.855
F	34	7,294	145	0.855

FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

LEGEND



- INSTALL STEEL STRAIN POLE F AT STA 155+17, 67' RT
- INSTALL ADVANCE WARNING BEACON AS PER DETAIL ON SHEET T11.
- INSTALL 1-1/4" RIGID CONDUIT FROM CABINET TO TRAFFIC BEACONS ON SIGN.

- INSTALL STEEL STRAIN POLE D AT STA 164+27, 69' RT
- INSTALL SIGNAL HEAD 2C TO POLE D AS SHOWN

- INSTALL STEEL STRAIN POLE C AT STA 165+36, 52.5' RT
- INSTALL JUNCTION BOX B9
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE C TO JB B9
- SPLICE LOOP WIRES TO TWO 1-PAIR LOOP LEAD-IN INSIDE JB B9
- INSTALL PED HEAD 4A TO POLE C
- INSTALL PEDESTAL POST H WITH ONE PED BUTTON
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE C TO PEDESTAL POST H

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-1/4" RIGID CONDUIT	CONTROLLER	SH 1	SH 1
1-1/4" RIGID CONDUIT	CONTROLLER	SH 2A	SH 2A & 2B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 4B	SH 4A & 4B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 5	SH 5
1-1/4" RIGID CONDUIT	CONTROLLER	SH 6A	SH 6A & 6B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 8A	SH 8A & 8B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 2E	SH 2D & 2E
1-1/4" RIGID CONDUIT	CONTROLLER	SH 2F	SH 2F & 2G
1-1/4" RIGID CONDUIT	CONTROLLER	POLE D	SH 2C
1-1/4" RIGID CONDUIT	CONTROLLER	POLE B	PED SH P4B
1-1/4" RIGID CONDUIT	CONTROLLER	PED POST G	PED BUTTON
1-1/4" RIGID CONDUIT	CONTROLLER	POLE C	PED SH P4A
1-1/4" RIGID CONDUIT	CONTROLLER	PED POST H	PED BUTTON
2-1/4" RIGID CONDUIT	CONTROLLER	JB B9	LOOPS 4A & 4B
1-1/4" RIGID CONDUIT	CONTROLLER	JB B7	LOOP 8
1-1/4" RIGID CONDUIT	CONTROLLER	JB B8	LOOP 1

LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	II	1	6'X30'	2	0'
4A	4	I6	1	6'X30'	2	0'
4B	4	I6	2	6'X30'	2	0'
5	5	JI	1	6'X30'	2	0'
8	8	J6	1	6'X30'	2	0'

ELECTRICAL CONTRACTOR SHALL CONTACT KYTC DISTRICT TRAFFIC SUPERVISOR, LOGAN BAKER (859-246-2355), PRIOR TO TRAFFIC SIGNAL INSTALLATION.

ALL TRAFFIC CONTROL METHODS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), (LATEST EDITION).

ALL 6'x30' LOOPS SHALL BE QUADRAPOLE. INSTALL 1" RIGID STEEL CONDUIT FROM JUNCTION BOX TO LOOP SAW SLOT.

IN ADDITION TO THE EXISTING SIGNAL POLES (4) AND SPAN WIRE POLES (2), CONTRACTOR SHALL REMOVE THE WOOD POLE WITH LOOP LEAD-IN WIRES AT STA 167+65, 94' LT. ALSO REMOVE POLE WITH ANTENNA AT STA 164+52.6, 83.5' LT AND 336 GROUND MOUNTED CABINET AND BASE AT STA 164+49, 74' LT. KYTC CONSIDERS REMOVAL OF ALL EXISTING EQUIPMENT INCIDENTAL TO BID ITEM 4950, REMOVE SIGNAL EQUIPMENT.

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

BREAKAWAY SIGNS:

SEE SHEETS T21 AND T22 FOR DETAILS. CONTRACTOR SHALL PROVIDE TWO FUSE CONNECTORS FOR EACH AWB, AWF AND SPEED MONITORING SIGN. THE HOT WILL HAVE A FUSE WHILE THE NEUTRAL WILL HAVE A FUSE LUG.

CONTRACTOR SHALL CUT EACH LUMINAIRE POLE OFF ONE FOOT ABOVE EACH SIGN ASSEMBLY AND PROVIDE AN ALUMINUM CAP FOR EACH POLE. CAP SHALL FIT SECURELY AND HAVE A MINIMUM OF THREE SET SCREWS. ALL WORK DESCRIBED HERE SHALL BE INCIDENTAL TO PAY ITEM INSTALL LUMINAIRE POLE (22939ND).

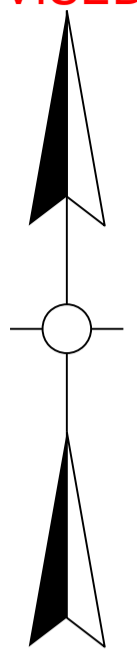
CONTRACTOR SHALL INSTALL A SEPARATE GROUND FOR EACH SPEED MONITORING SIGN. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE INSIDE TRANSFORMER BASE FOR TESTING.

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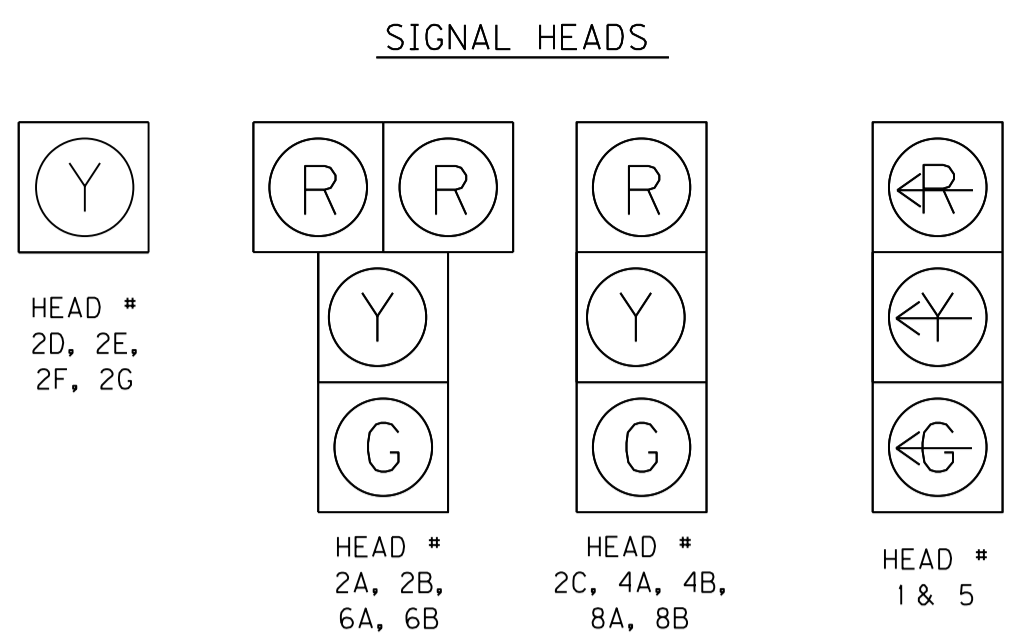
SCALE: 1"=20'

US 60 (VERSAILLES RD) AT
HUNTERTOWN ROAD

REVISION: REVISED 12-3-12



DATE 12/03/12
 PREPARED BY D. FRANKIE
 CHECKED BY _____
 APPROVED BY _____

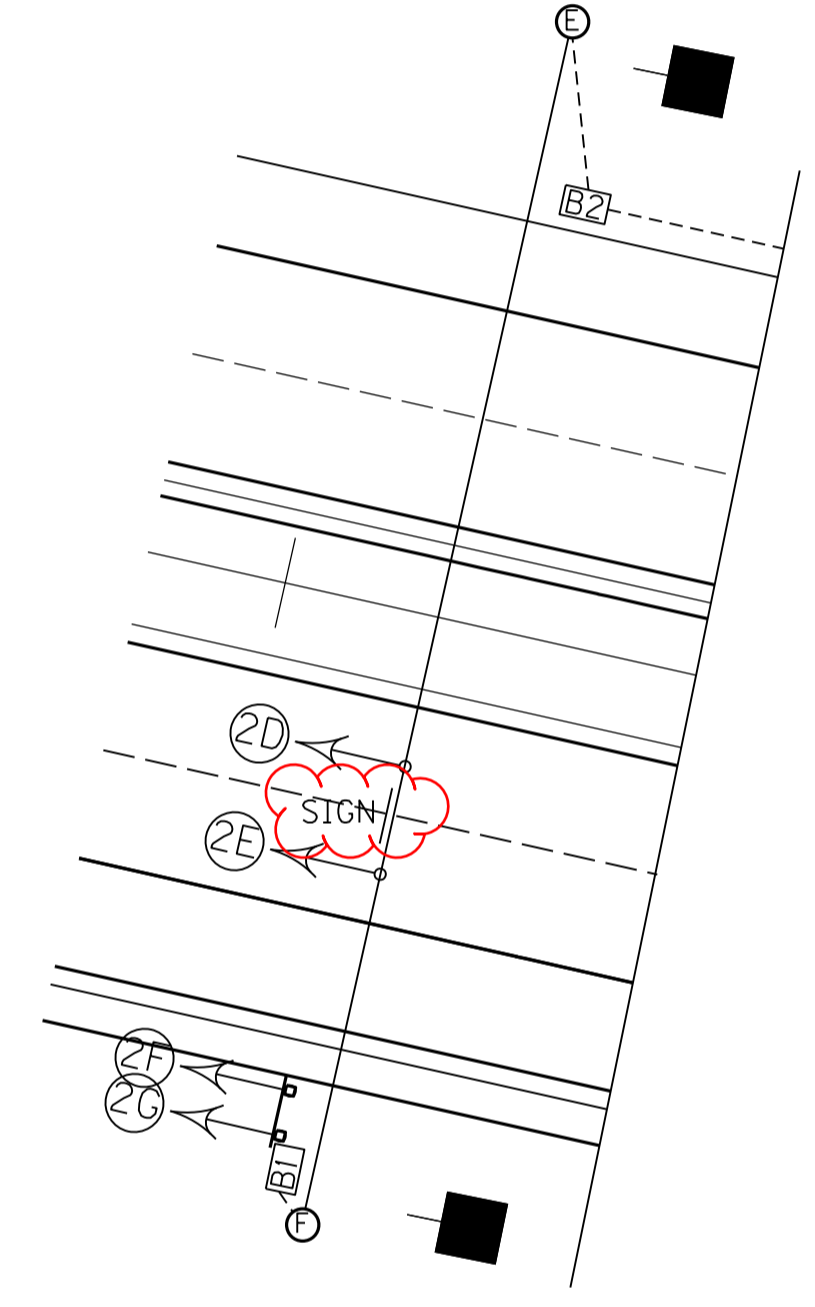


ALL INDICATIONS L.E.D.
 ALL MAINLINE HEADS WILL HAVE REFLECTIVE BACKPLATES

SIGNAL SPANS

SPAN WIRE	MESSENGER WIRE	SAG	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING		
			POLE	FT		FROM	TO	FT
1	15,400	5.0	A	27.5	2-3 SEC.	A	4A	95.0
			B	30.5		4B	113.0	
2	15,400	4.0	B	32.0	1-3 SEC.	B	5	89.0
			C	30.0		2A	101.0	
			D	31.0	2B	113.0		
3	15,400	4.0	C	31.0	2-3 SEC.	C	8A	14.0
			D	31.0		8B	26.0	
4	15,400	4.0	D	31.0	1-3 SEC.	D	1	38.0
			A	33.5		6A	50.0	
			E	32.0	6B	62.0		
5	10,800	3.0	E	32.0	1-1 SEC.	E	2D	83.0
			F	32.0		2E	95.0	
							1-1 SEC.	

- INSTALL STEEL STRAIN POLE E AT STA 155+17, 67' LT
- INSTALL JUNCTION BOXES B2, B3, B4 AND B5. SPACE JBS EVENLY BETWEEN JB B2 AND JB B6 AT APPROX. 225 FEET APART.
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B6 TO JB B5, TO JB B4, TO JB B3, TO JB B2, AND TO POLE E. OPEN CUT ACROSS DRIVEWAY.
- INSTALL ADVANCE WARNING FLASHERS AND SIGN ACROSS ROADWAY PER DETAIL.
- INSTALL SIDE-MOUNTED ADVANCE WARNING FLASHER AS PER DETAIL ON SHEET T11.
- INSTALL 1-1/4" RIGID CONDUIT FROM CABINET TO TRAFFIC BEACONS ON SPAN



- INSTALL STEEL STRAIN POLE F AT STA 155+17, 67' RT
- INSTALL ADVANCE WARNING BEACON AS PER DETAIL ON SHEET T11.
- INSTALL 1-1/4" RIGID CONDUIT FROM CABINET TO TRAFFIC BEACONS ON SIGN.

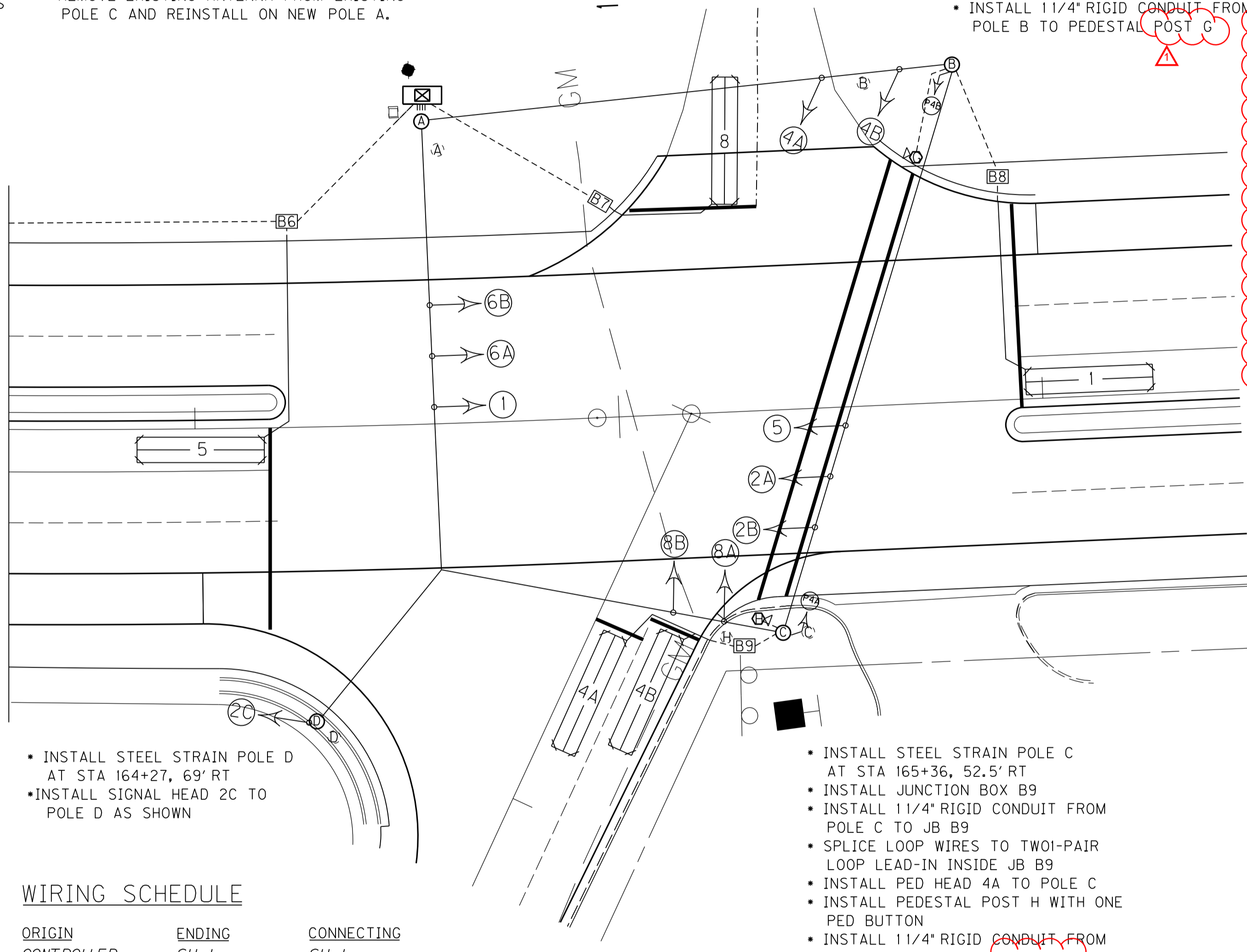
WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-1/4" RIGID CONDUIT	CONTROLLER	SH 1	SH 1
1-1/4" RIGID CONDUIT	CONTROLLER	SH 2A	SH 2A & 2B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 4B	SH 4A & 4B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 5	SH 5
1-1/4" RIGID CONDUIT	CONTROLLER	SH 6A	SH 6A & 6B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 8A	SH 8A & 8B
1-1/4" RIGID CONDUIT	CONTROLLER	SH 2E	SH 2D & 2E
1-1/4" RIGID CONDUIT	CONTROLLER	SH 2F	SH 2F & 2G
1-1/4" RIGID CONDUIT	CONTROLLER	POLE D	SH 2C
1-1/4" RIGID CONDUIT	CONTROLLER	POLE B	PED SH P4B
1-1/4" RIGID CONDUIT	CONTROLLER	PED POST G	PED BUTTON
1-1/4" RIGID CONDUIT	CONTROLLER	POLE C	PED SH P4A
1-1/4" RIGID CONDUIT	CONTROLLER	PED POST H	PED BUTTON
2-1/4" RIGID CONDUIT	CONTROLLER	JB B9	LOOPS 4A & 4B
1-1/4" RIGID CONDUIT	CONTROLLER	JB B7	LOOP 8
1-1/4" RIGID CONDUIT	CONTROLLER	JB B8	LOOP 1

CONTRACTOR SHALL EXERCISE EXTREME CAUTION AROUND ALL UTILITIES TO INCLUDE THE GAS AND WATER LINES AND OVERHEAD UTILITIES. HAND DIG WHEN WITHIN FOUR FEET. NOTE THAT ALL UTILITIES ARE NOT SHOWN.

- INSTALL STEEL STRAIN POLE A AT STA 164+55.5, 71.6' LT
- INSTALL TYPE 170 CONTROLLER IN MODEL 332 BASE MOUNT CABINET
- INSTALL 4- 2" RIGID STEEL CONDUIT FROM CONTROLLER CABINET TO POLE A
- INSTALL JUNCTION BOXES B6 AND B7
- INSTALL 1 1/4" RIGID CONDUITS FROM CABINET TO JB B6 AND B7
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B6 AND B7
- REMOVE EXISTING ANTENNA FROM EXISTING POLE C AND REINSTALL ON NEW POLE A.

- INSTALL STEEL STRAIN POLE B AT STA 165+82, 80' LT
- INSTALL JUNCTION BOX B8
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE B TO JB B8
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B8
- INSTALL PED HEAD 4B TO POLE B
- INSTALL PEDESTAL POST G WITH ONE PED BUTTON
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE B TO PEDESTAL POST G



TRAFFIC SIGNAL POLES

POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	36	9,192	189	0.632
B	34	9,390	188	0.590
C	34	8,452	161	0.671
D	34	8,698	170	0.613
E	34	7,294	145	0.855
F	34	7,294	145	0.855

FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

LEGEND

- EXISTING SIGNAL POLE
- PEDESTAL (TO BE REMOVED)
- EXISTING UTILITY POLE
- EXISTING CONTROLLER (TO BE REMOVED)
- CONTROLLER
- STEEL STRAIN POLE
- JUNCTION BOX TYPE B
- SIGNAL HEAD
- ADVANCE WARNING FLASHER ASSEMBLY
- LOOP DETECTOR
- 1 1/4" RIGID STEEL CONDUIT (UNLESS NOTED OTHERWISE)
- PEDESTRIAN SIGNAL HEAD
- PED POST
- PED BUTTON

LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	II	1	6'X30'	2	0'
4A	4	I6	1	6'X30'	2	0'
4B	4	I6	2	6'X30'	2	0'
5	5	JI	1	6'X30'	2	0'
8	8	J6	1	6'X30'	2	0'

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IN ADDITION TO THE EXISTING SIGNAL POLES (4) AND SPAN WIRE POLES (2), CONTRACTOR SHALL REMOVE THE WOOD POLE WITH LOOP LEAD-IN WIRES AT STA 167+65, 94' LT. ALSO REMOVE POLE WITH ANTENNA AT STA 164+52.6, 83.5' LT AND 336 GROUND MOUNTED CABINET AND BASE AT STA 164+49, 74' LT. KYTC CONSIDERS REMOVAL OF ALL EXISTING EQUIPMENT INCIDENTAL TO BID ITEM 4950, REMOVE SIGNAL EQUIPMENT.

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

BREAKAWAY SIGNS:

SEE SHEETS T21 AND T22 FOR DETAILS. CONTRACTOR SHALL PROVIDE TWO FUSE CONNECTORS FOR EACH AWB, AWF AND SPEED MONITORING SIGN. THE HOT WILL HAVE A FUSE WHILE THE NEUTRAL WILL HAVE A FUSE LUG.

CONTRACTOR SHALL CUT EACH LUMINAIRE POLE OFF ONE FOOT ABOVE EACH SIGN ASSEMBLY AND PROVIDE AN ALUMINUM CAP FOR EACH POLE. CAP SHALL FIT SECURELY AND HAVE A MINIMUM OF THREE SET SCREWS. ALL WORK DESCRIBED HERE SHALL BE INCIDENTAL TO PAY ITEM INSTALL LUMINAIRE POLE (22939ND).

CONTRACTOR SHALL INSTALL A SEPARATE GROUND FOR EACH SPEED MONITORING SIGN. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE INSIDE TRANSFORMER BASE FOR TESTING.

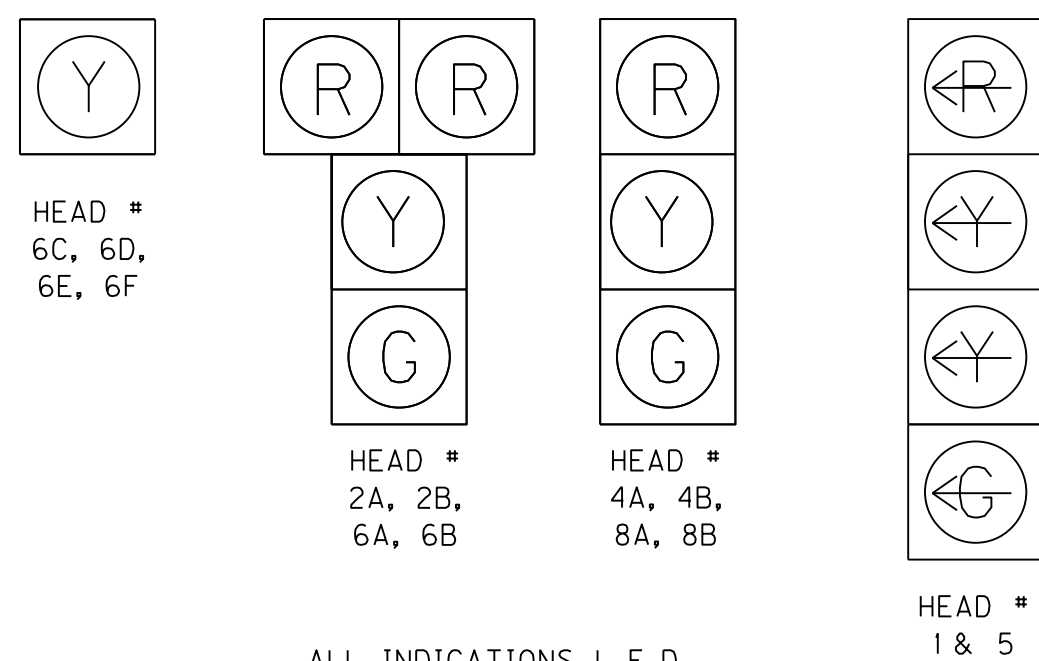
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SCALE: 1"=20'

US 60 (VERSAILLES RD) AT HUNTERTOWN ROAD

PREPARED BY _____ DATE 12/03/12
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

SIGNAL HEADS

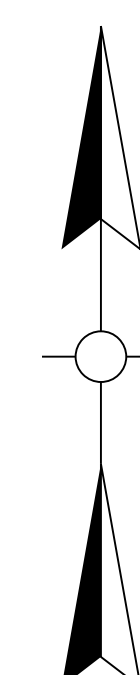


ALL INDICATIONS L.E.D.
 ALL MAINLINE HEADS WILL HAVE
 REFLECTORIZED BACKPLATES

SIGNAL SPANS									
SPAN WIRE	MESSENGER WIRE	SAG	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING			
			POLE	FT		FROM	TO	FT	
1	15,400	5.0	A	32.5	2-3 SEC.	A	4A	58.0	
			B	31.5			4B	67.0	
2	15,400	5.0	B	34.6	3-4 SEC.	B	5	82.0	
			C	33.6			2A	94.0	
			D	30.5			2B	106.0	
3	15,400	5.0	C	30.5	2-3 SEC.	C	8A	47.0	
			D	31.5			8B	56.0	
4	15,400	5.0	D	34.0	3-4 SEC.	D	1	75.0	
			A	35.0			6A	87.0	
							6B	99.0	
5	10,800	3.0	E	32.0	1-1 SEC.	E	6C	39.0	
			F	32.0	1-1 SEC.		SIGN	45.0	
							6D	51.0	

TRAFFIC SIGNAL POLES				
POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	38	9,377	204	0.633
B	38	10,952	237	0.532
C	36	10,140	212	0.540
D	36	10,187	215	0.529
E	34	7,294	145	0.855
F	34	7,294	145	0.855

FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.



NOTES:

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ALL 6'x30' LOOPS SHALL BE QUADRAPOLE.

INSTALL 1" RIGID STEEL CONDUIT FROM JUNCTION BOX TO LOOP SAW SLOT.

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

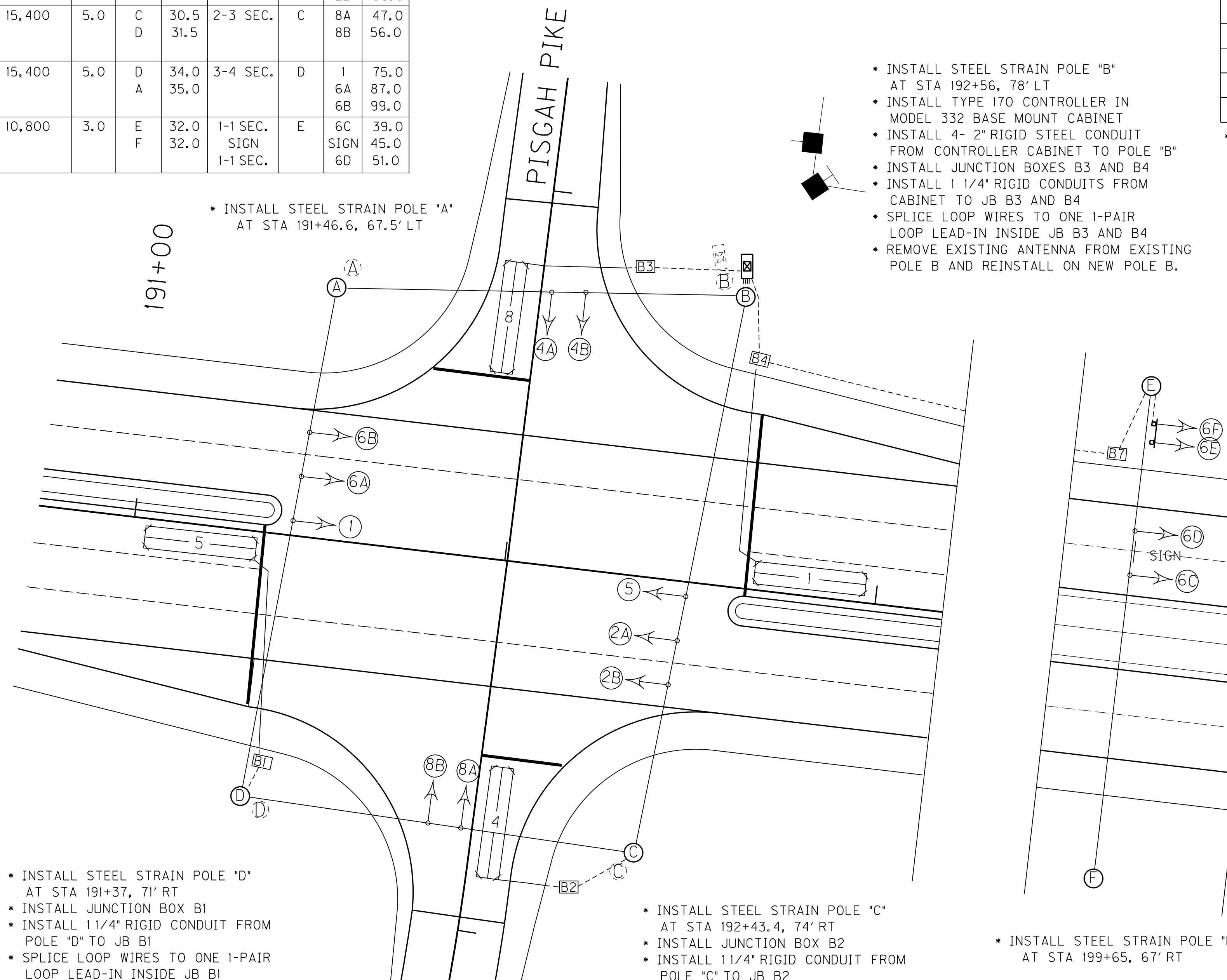
BREAKAWAY SIGNS:

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CONTRACTOR SHALL CUT EACH LUMINAIRE POLE OFF ONE FOOT ABOVE EACH SIGN ASSEMBLY AND PROVIDE AN ALUMINUM CAP FOR EACH POLE. CAP SHALL FIT SECURELY AND HAVE A MINIMUM OF THREE SET SCREWS. ALL WORK DESCRIBED HERE SHALL BE INCIDENTAL TO PAY ITEM INSTALL LUMINAIRE POLE (22939ND).

CONTRACTOR SHALL INSTALL A SEPARATE GROUND FOR EACH SPEED MONITORING SIGN. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE INSIDE TRANSFORMER BASE FOR TESTING.

INSTALL STEEL STRAIN POLE 'A' AT STA 191+46.6, 67.5' LT



- INSTALL STEEL STRAIN POLE 'B' AT STA 192+56, 78' LT
- INSTALL TYPE 170 CONTROLLER IN MODEL 332 BASE MOUNT CABINET
- INSTALL 4- 2" RIGID STEEL CONDUIT FROM CONTROLLER CABINET TO POLE 'B'
- INSTALL JUNCTION BOXES B3 AND B4
- INSTALL 1 1/4" RIGID CONDUITS FROM CABINET TO JB B3 AND B4
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B3 AND B4
- REMOVE EXISTING ANTENNA FROM EXISTING POLE B AND REINSTALL ON NEW POLE B.

- INSTALL STEEL STRAIN POLE 'E' AT STA 199+65, 67' LT
- INSTALL JUNCTION BOXES B5, B6, AND B7. SPACE JBS EVENLY BETWEEN JB B4 AND JB B7 AT APPROX. 235 FEET APART.
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B4 TO JB B5, TO JB B6, TO JB B7 AND TO POLE E.
- INSTALL ADVANCE WARNING FLASHERS AND SIGN ACROSS ROADWAY PER DETAIL.
- INSTALL SIDE MOUNTED ADVANCE WARNING FLASHER AS PER DETAIL ON SHEET T11.
- INSTALL 1-#14/5C FROM CABINET TO TRAFFIC BEACONS ON SPAN AND 1-#14/5C FROM CABINET TO BEACONS ON SIDE MOUNTED SIGN.

- INSTALL STEEL STRAIN POLE 'D' AT STA 191+37, 71' RT
- INSTALL JUNCTION BOX B1
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE 'D' TO JB B1
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B1

- INSTALL STEEL STRAIN POLE 'C' AT STA 192+43.4, 74' RT
- INSTALL JUNCTION BOX B2
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE 'C' TO JB B2
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B2

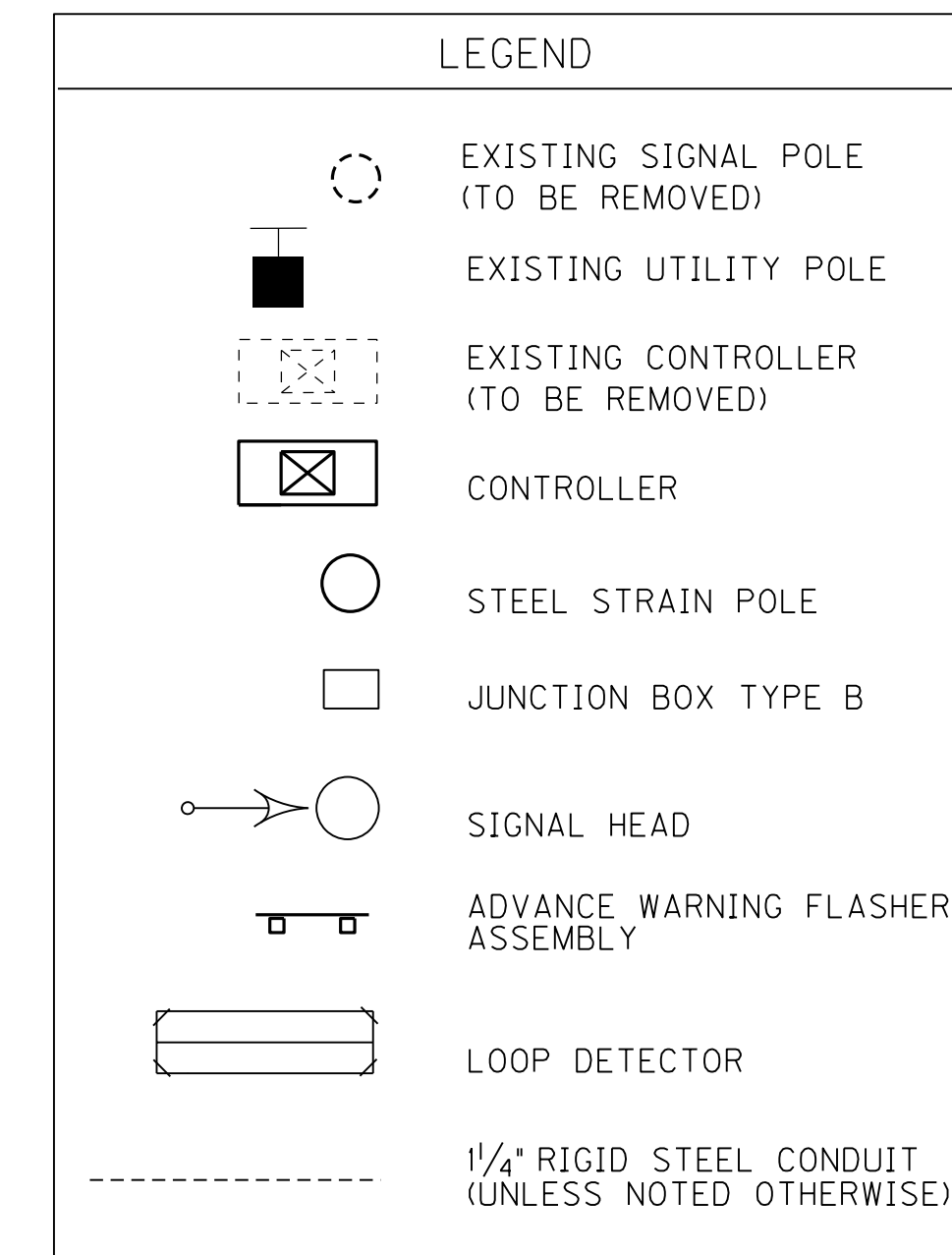
- INSTALL STEEL STRAIN POLE 'F' AT STA 199+65, 67' RT

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-#14/7C	CONTROLLER	SH 1	SH 1
1-#14/5C	CONTROLLER	SH 2B	SH 2A & 2B
1-#14/5C	CONTROLLER	SH 4A	SH 4A & 4B
1-#14/7C	CONTROLLER	SH 5	SH 5
1-#14/5C	CONTROLLER	SH 6A	SH 6A & 6B
1-#14/5C	CONTROLLER	SH 8B	SH 8A & 8B
1-#14/5C	CONTROLLER	SH 6C	SH 6C & 6D
1-#14/5C	CONTROLLER	SH 6E	SH 6E & 6F
1-#14/1 PAIR	CONTROLLER	JB1	LOOP 5
1-#14/1 PAIR	CONTROLLER	JB2	LOOP 4
1-#14/1 PAIR	CONTROLLER	JB3	LOOP 8
1-#14/1 PAIR	CONTROLLER	JB4	LOOP 1

LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	I1	1	6'x30'	2	0'
4	4	I6	1	6'x30'	2	0'
5	5	J1	1	6'x30'	2	0'
8	8	J6	1	6'x30'	2	0'

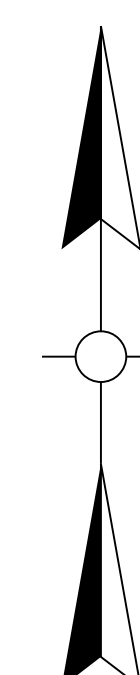


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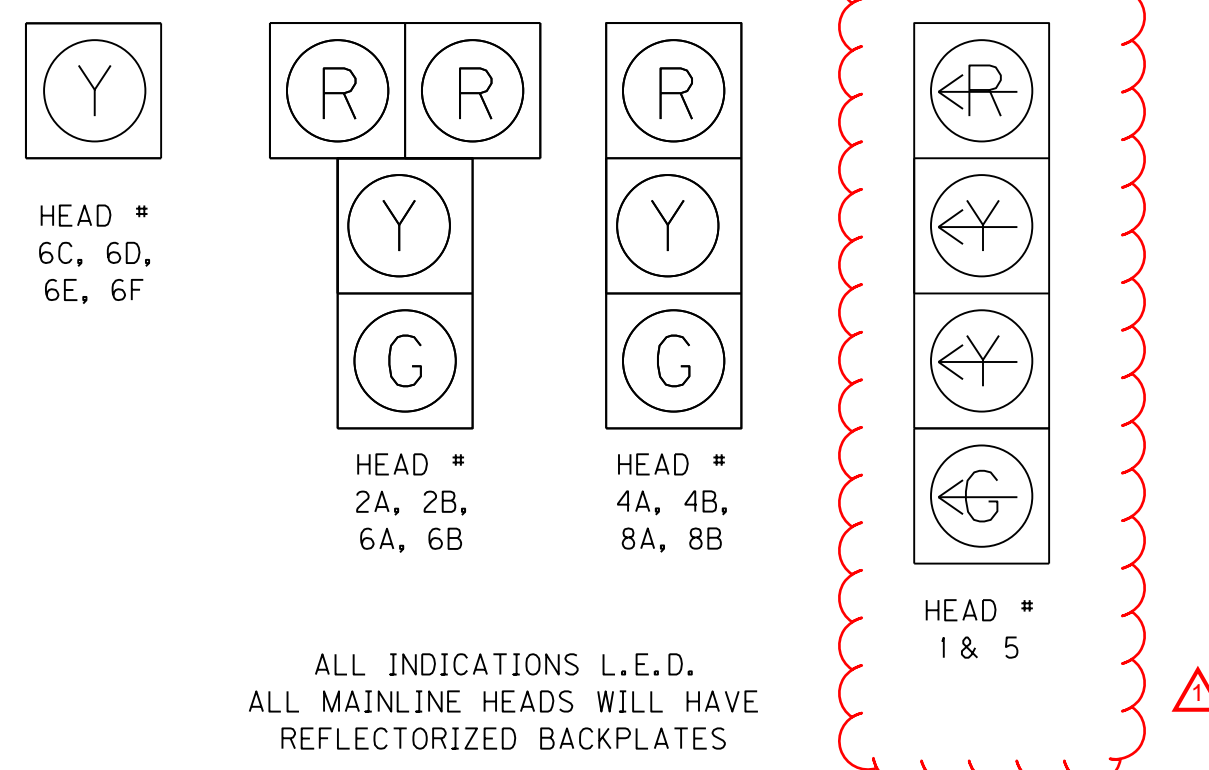
US 60 (VERSAILLES RD) AT
 KY 1967 (PISGAH PIKE)/SHANNON RUN

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 E-SHEET NAME:

REVISD 12-3-12



SIGNAL HEADS



ALL INDICATIONS L.E.D.
ALL MAINLINE HEADS WILL HAVE
REFLECTORIZED BACKPLATES

SIGNAL SPANS									
SPAN WIRE	MESSENGER WIRE	SAG	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING			
			POLE	FT		FROM	TO	FT	
1	15,400	5.0	A	32.5 31.5	2-3 SEC.	A	4A 4B	58.0 67.0	
2	15,400	5.0	B	34.6 33.6	3-4 SEC.	B	5 2A 2B	82.0 94.0 106.0	
3	15,400	5.0	C	30.5 31.5	2-3 SEC.	C	8A 8B	47.0 56.0	
4	15,400	5.0	D	34.0 35.0	3-4 SEC.	D	1 6A 6B	75.0 87.0 99.0	
5	10,800	3.0	E	32.0 32.0	1-1 SEC. SIGN 1-1 SEC.	E	6C SIGN 6D	39.0 45.0 51.0	

TRAFFIC SIGNAL POLES

POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	38	9,377	204	0.633
B	38	10,952	237	0.532
C	36	10,140	212	0.540
D	36	10,187	215	0.529
E	34	7,294	145	0.855
F	34	7,294	145	0.855

FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

PREPARED BY: D. FRANKE
CHECKED BY: _____
APPROVED BY: _____
DATE: 12/03/12

NOTES:

ELECTRICAL CONTRACTOR SHALL CONTACT KYTC DISTRICT TRAFFIC SUPERVISOR, LOGAN BAKER (859-246-2355), PRIOR TO TRAFFIC SIGNAL INSTALLATION.

ALL TRAFFIC CONTROL METHODS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), (LATEST EDITION).

ALL 6'x30' LOOPS SHALL BE QUADRAPOLE.

INSTALL 1" RIGID STEEL CONDUIT FROM JUNCTION BOX TO LOOP SAW SLOT.

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

BREAKAWAY SIGNS:

SEE SHEETS T21 AND T22 FOR DETAILS. CONTRACTOR SHALL PROVIDE TWO FUSE CONNECTORS FOR EACH AWB, AWF AND SPEED MONITORING SIGN. THE HOT WILL HAVE A FUSE WHILE THE NEUTRAL WILL HAVE A FUSE LUG.

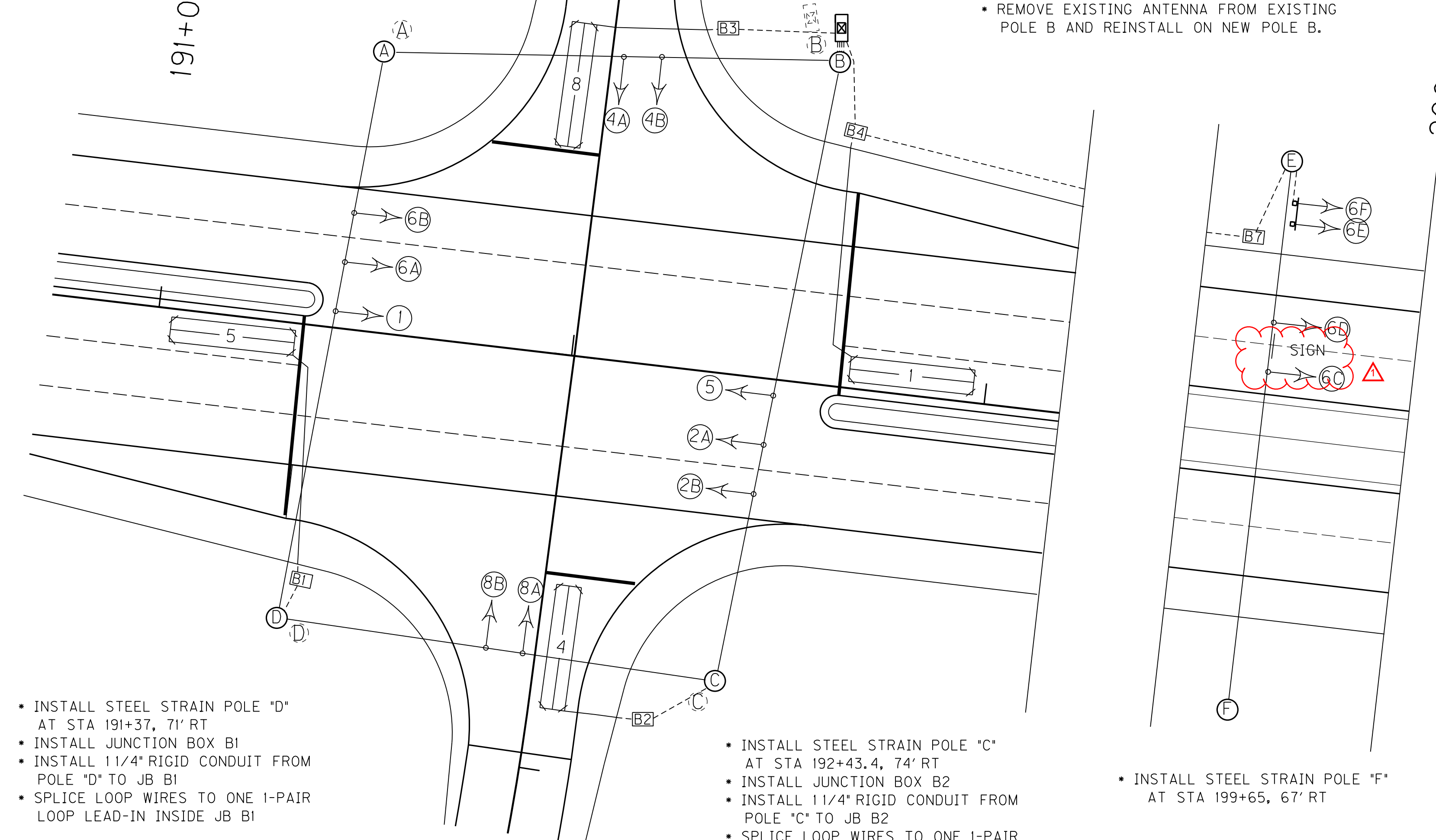
CONTRACTOR SHALL CUT EACH LUMINAIRE POLE OFF ONE FOOT ABOVE EACH SIGN ASSEMBLY AND PROVIDE AN ALUMINUM CAP FOR EACH POLE. CAP SHALL FIT SECURELY AND HAVE A MINIMUM OF THREE SET SCREWS. ALL WORK DESCRIBED HERE SHALL BE INCIDENTAL TO PAY ITEM INSTALL LUMINAIRE POLE (22939ND).

CONTRACTOR SHALL INSTALL A SEPARATE GROUND FOR EACH SPEED MONITORING SIGN. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE INSIDE TRANSFORMER BASE FOR TESTING.

INSTALL STEEL STRAIN POLE 'A' AT STA 191+46.6, 67.5' LT

- INSTALL STEEL STRAIN POLE 'B' AT STA 192+56, 78' LT
- INSTALL TYPE 170 CONTROLLER IN MODEL 332 BASE MOUNT CABINET
- INSTALL 4- 2" RIGID STEEL CONDUIT FROM CONTROLLER CABINET TO POLE 'B'
- INSTALL JUNCTION BOXES B3 AND B4
- INSTALL 1 1/4" RIGID CONDUITS FROM CABINET TO JB B3 AND B4
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B3 AND B4
- REMOVE EXISTING ANTENNA FROM EXISTING POLE B AND REINSTALL ON NEW POLE B.

- INSTALL STEEL STRAIN POLE 'E' AT STA 199+65, 67' LT
- INSTALL JUNCTION BOXES B5, B6, AND B7. SPACE JBS EVENLY BETWEEN JB B4 AND JB B7 AT APPROX. 235 FEET APART.
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B4 TO JB B5, TO JB B6, TO JB B7 AND TO POLE E.
- INSTALL ADVANCE WARNING FLASHERS AND SIGN ACROSS ROADWAY PER DETAIL.
- INSTALL SIDE MOUNTED ADVANCE WARNING FLASHER AS PER DETAIL ON SHEET T11.
- INSTALL 1-#14/5C FROM CABINET TO TRAFFIC BEACONS ON SPAN AND 1-#14/5C FROM CABINET TO BEACONS ON SIDE MOUNTED SIGN.



- INSTALL STEEL STRAIN POLE 'D' AT STA 191+37, 71' RT
- INSTALL JUNCTION BOX B1
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE 'D' TO JB B1
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B1

- INSTALL STEEL STRAIN POLE 'C' AT STA 192+43.4, 74' RT
- INSTALL JUNCTION BOX B2
- INSTALL 1 1/4" RIGID CONDUIT FROM POLE 'C' TO JB B2
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B2

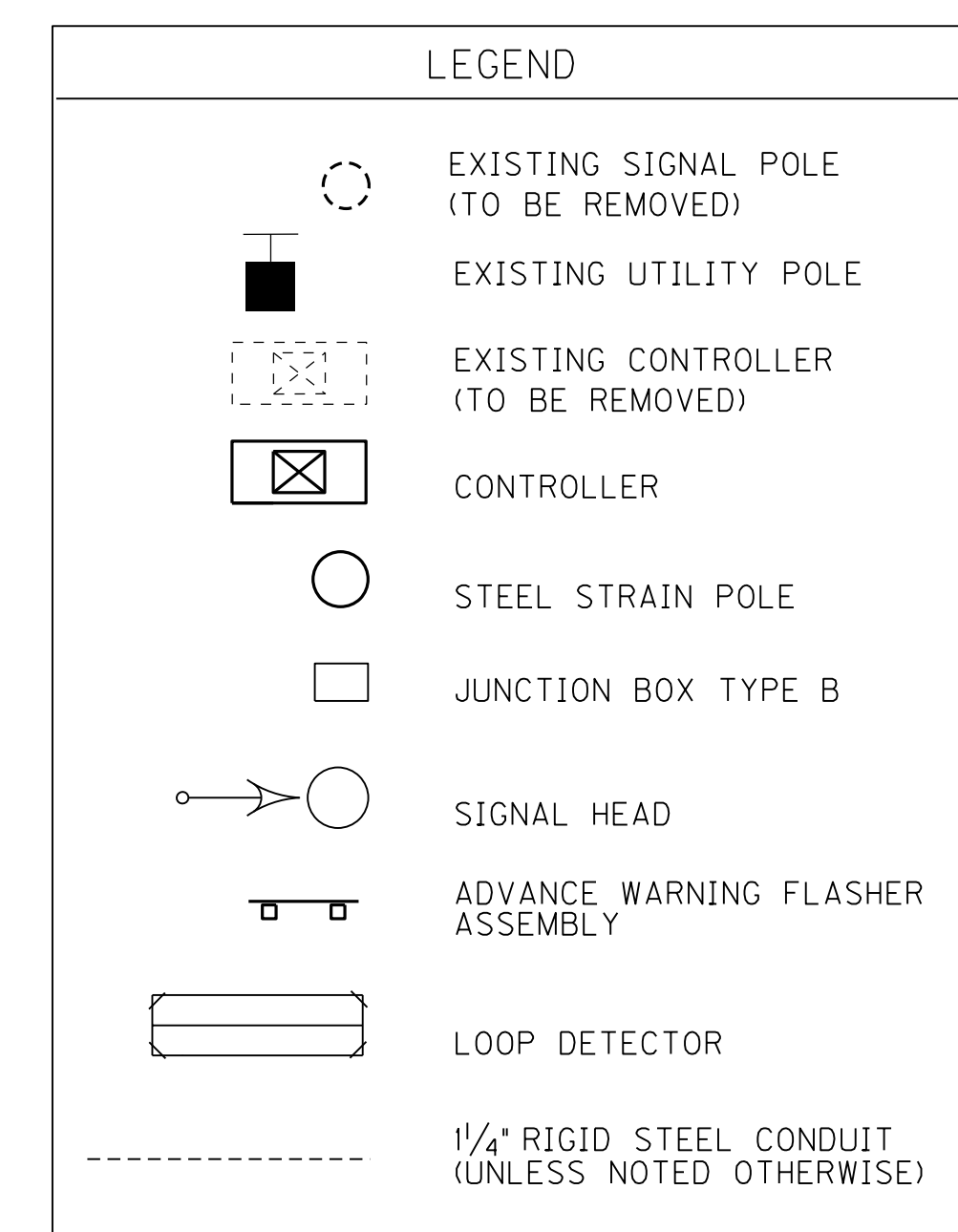
- INSTALL STEEL STRAIN POLE 'F' AT STA 199+65, 67' RT

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-#14/7C	CONTROLLER	SH 1	SH 1
1-#14/5C	CONTROLLER	SH 2B	SH 2A & 2B
1-#14/5C	CONTROLLER	SH 4A	SH 4A & 4B
1-#14/7C	CONTROLLER	SH 5	SH 5
1-#14/5C	CONTROLLER	SH 6A	SH 6A & 6B
1-#14/5C	CONTROLLER	SH 8B	SH 8A & 8B
1-#14/5C	CONTROLLER	SH 6C	SH 6C & 6D
1-#14/5C	CONTROLLER	SH 6E	SH 6E & 6F
1-#14/1 PAIR	CONTROLLER	JB1	LOOP 5
1-#14/1 PAIR	CONTROLLER	JB2	LOOP 4
1-#14/1 PAIR	CONTROLLER	JB3	LOOP 8
1-#14/1 PAIR	CONTROLLER	JB4	LOOP 1

LOOP SCHEDULE

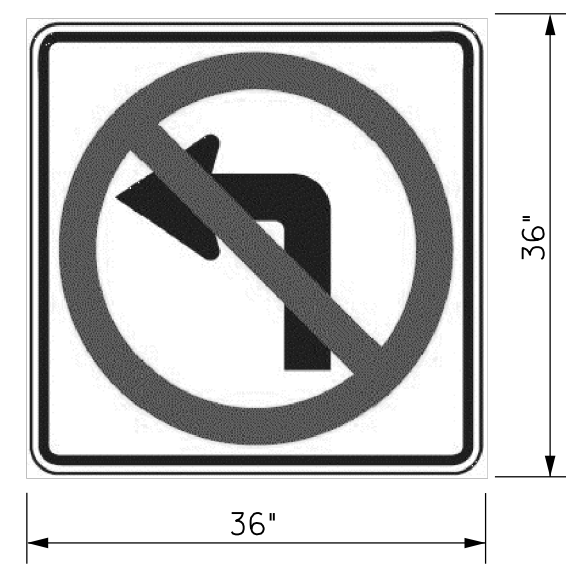
LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	I1	1	6'x30'	2	0'
4	4	I6	1	6'x30'	2	0'
5	5	J1	1	6'x30'	2	0'
8	8	J6	1	6'x30'	2	0'



SCALE: 1"=20'

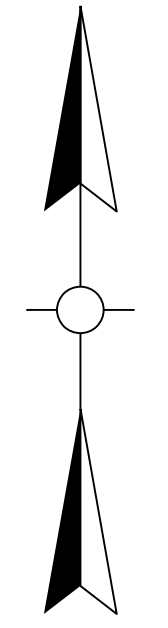
US 60 (VERSAILLES RD) AT
KY 1967 (PISGAH PIKE)/SHANNON RUN

USER: \$\$\$USER\$\$\$
DATE: \$\$\$DATE\$\$\$
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E-SHEET NAME:

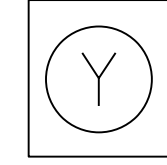
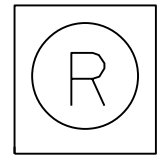


R3-2 SIGN
SIGN A

INSTALL 36" x 36" "LEFT TURN PROHIBITED" SIGN R3-2, ON SPAN AS SHOWN.



SIGNAL HEADS
ALL INDICATIONS L.E.D.



HEAD #	HEAD #
4A, 4B, 8A, 8B	2A, 2B, 2C, 6C, 6D

ALL 12" SIZE

WIRING SCHEDULE

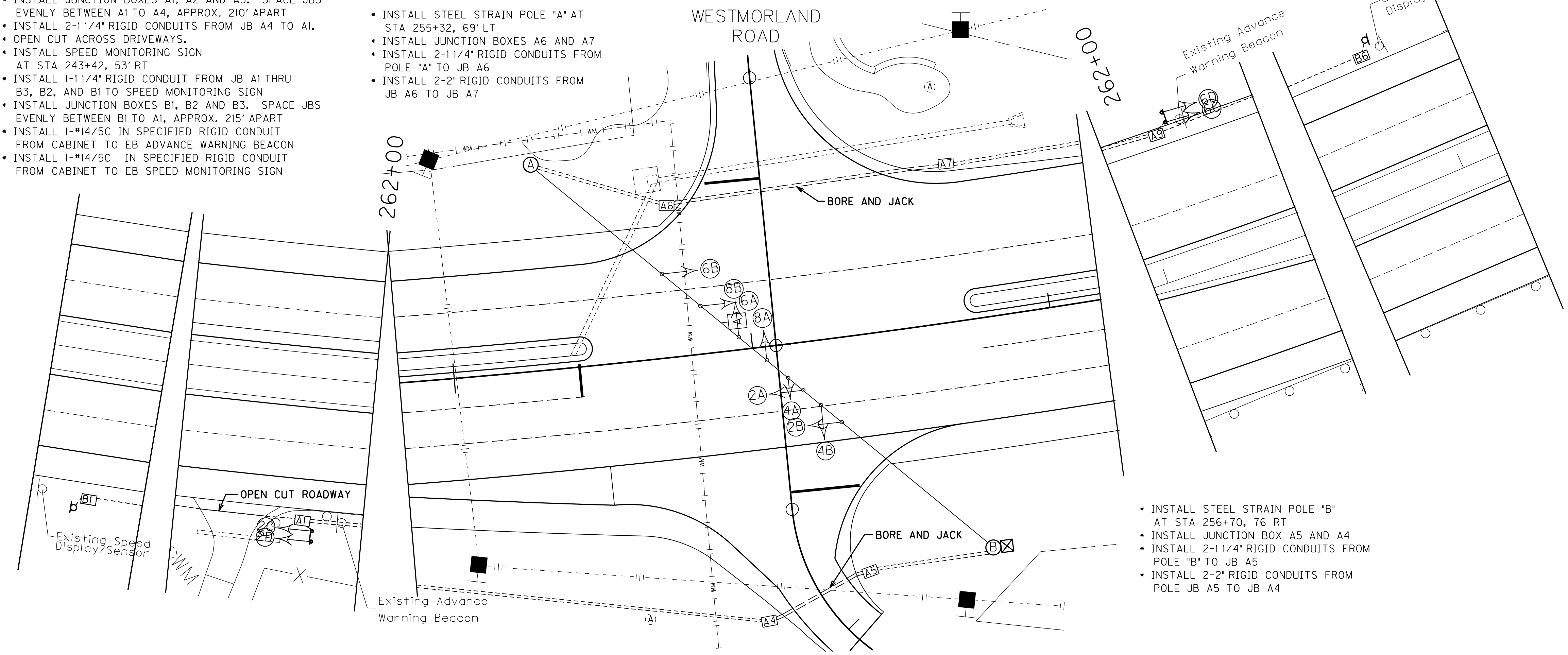
CABLE	ORIGIN	ENDING	CONNECTING
1-#14/7C	CONTROLLER	SH 6B	SH 2A,2B,6A & 6B
1-#14/7C	CONTROLLER	SH 8B	SH 4B,4A,8A & 8B
1-#14/5C	CONTROLLER	EB SPEED	EB SPEED MONITORING SIGN
1-#14/5C	CONTROLLER	EB AWB	EB AWB
1-#14/5C	CONTROLLER	WB AWB	WB AWB
1-#14/5C	CONTROLLER	WB SPEED	WB SPEED MONITORING SIGN

- INSTALL AWB AT STA 262+17, 53' LT
- INSTALL JUNCTION BOXES A8 AND A9. SPACE JBS EVENLY BETWEEN A7 TO A9, APPROX. 265' APART
- INSTALL 2-1 1/4" RIGID CONDUITS FROM JB A7 TO A9.
- INSTALL SPEED MONITORING SIGN AT STA 268+87, 53' LT
- INSTALL 1-1 1/4" RIGID CONDUIT FROM JB A9 THRU B3, B4 AND B5 TO SPEED MONITORING SIGN
- INSTALL JUNCTION BOXES B4, B5, AND B6. SPACE JBS EVENLY BETWEEN A9 TO B6, APPROX. 225' APART
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO WB ADVANCE WARNING BEACON
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO WB SPEED MONITORING SIGN

- INSTALL AWB AT STA 249+82, 53' RT
- INSTALL JUNCTION BOXES A1, A2 AND A3. SPACE JBS EVENLY BETWEEN A1 TO A4, APPROX. 210' APART
- INSTALL 2-1 1/4" RIGID CONDUITS FROM JB A4 TO A1.
- OPEN CUT ACROSS DRIVEWAYS.
- INSTALL SPEED MONITORING SIGN AT STA 243+42, 53' RT
- INSTALL 1-1 1/4" RIGID CONDUIT FROM JB A1 THRU B3, B2, AND B1 TO SPEED MONITORING SIGN
- INSTALL JUNCTION BOXES B1, B2 AND B3. SPACE JBS EVENLY BETWEEN B1 TO A1, APPROX. 215' APART
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO EB ADVANCE WARNING BEACON
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO EB SPEED MONITORING SIGN

- INSTALL STEEL STRAIN POLE 'A' AT STA 255+32, 69' LT
- INSTALL JUNCTION BOXES A6 AND A7
- INSTALL 2-1 1/4" RIGID CONDUITS FROM POLE 'A' TO JB A6
- INSTALL 2-2" RIGID CONDUITS FROM JB A6 TO JB A7

- INSTALL STEEL STRAIN POLE 'B' AT STA 256+70, 76 RT
- INSTALL JUNCTION BOX A5 AND A4
- INSTALL 2-1 1/4" RIGID CONDUITS FROM POLE 'B' TO JB A5
- INSTALL 2-2" RIGID CONDUITS FROM POLE JB A5 TO JB A4



TRAFFIC SIGNAL POLES				
POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	34	11,011	220	0.523
B	34	11,011	220	0.523

*FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

LEGEND	
	EXISTING SIGNAL OR UTILITY POLE
	336 CONTROLLER
	STEEL STRAIN POLE
	JUNCTION BOX TYPES A OR B (AS DESIGNATED)
	SIGNAL HEAD
	ADVANCE WARNING BEACON
	NEW SPEED MONITORING SIGN
	2" RIGID STEEL CONDUIT (JACK AND BORE)
	1/4" RIGID STEEL CONDUIT (UNLESS NOTED OTHERWISE)

SCALE: 1"=20'

US 60 (VERSAILLES RD) AT WESTMORLAND ROAD/OLD VERSAILLES RD

SIGNAL SPANS								
SPAN WIRE	MESSENGER WIRE	SAG	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING		
			POLE	FT		FROM	TO	FT
1	15,400	4.0	A	31.0	2-1 SEC. SIGN A 6-1 SEC.	A	6B	57.0
			B	31.0		A	6A	74.0
							8B	90.0
							8A	102.0
							4A	111.5
							2A	118.0
							4B	126.0
							2B	135.0

BREAKAWAY SIGNS:

SEE SHEETS T21 AND T22 FOR DETAILS. CONTRACTOR SHALL PROVIDE TWO FUSE CONNECTORS FOR EACH AWB, AWF AND SPEED MONITORING SIGN. THE HOT WILL HAVE A FUSE WHILE THE NEUTRAL WILL HAVE A FUSE LUG.

FOR SPEED MONITORING EQUIPMENT, CONTRACTOR SHALL CUT EACH LUMINAIRE POLE OFF ONE FOOT ABOVE EACH SIGN ASSEMBLY AND PROVIDE AN ALUMINUM CAP FOR EACH POLE. CAP SHALL FIT SECURELY AND HAVE A MINIMUM OF THREE SET SCREWS. ALL WORK DESCRIBED HERE SHALL BE INCIDENTAL TO PAY ITEM INSTALL LUMINAIRE POLE (22939ND).

CONTRACTOR SHALL INSTALL A SEPARATE GROUND FOR EACH SPEED MONITORING SIGN. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE INSIDE TRANSFORMER BASE FOR TESTING.

NEW SPEED MONITORING EQUIPMENT WILL BE K & K SYSTEMS, INC., MODEL NO. RPM-18. ALL LABOR AND MATERIALS TO FURNISH AND INSTALL ARE PART OF BID ITEM 24568ED.

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

NOTES:

ELECTRICAL CONTRACTOR SHALL CONTACT KYTC DISTRICT TRAFFIC SUPERVISOR, LOGAN BAKER (859-246-2355), PRIOR TO TRAFFIC SIGNAL INSTALLATION.

ALL TRAFFIC CONTROL METHODS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), (LATEST EDITION).

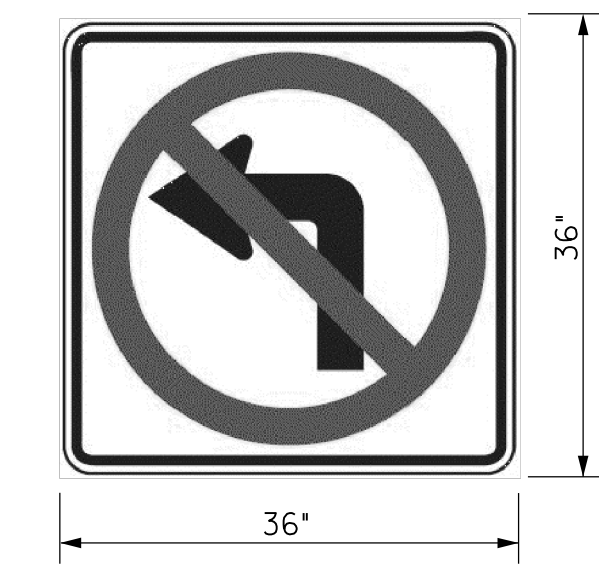
CONTRACTOR SHALL REMOVE EXISTING ADVANCE WARNING BEACON (AWB) ASSEMBLIES AND REPLACE WITH NEW POLE ASSEMBLIES PER DETAILS ON SHEET T11.

CONTRACTOR SHALL REMOVE EXISTING SPEED MONITORING SITES AND REPLACE WITH NEW POLES AND SPEED MONITORING EQUIPMENT. CONTRACTOR SHALL REUSE EXISTING SHEET SIGNS. ALL OTHER EQUIPMENT AND HARDWARE SHALL BE NEW. SIGN REMOVAL AND REMOUNTING SHALL BE PART OF BID ITEM 2063IND, INSTALL POLE MOUNTED SIGN.

PREPARED BY: D. FRANKE
CHECKED BY: _____
APPROVED BY: _____

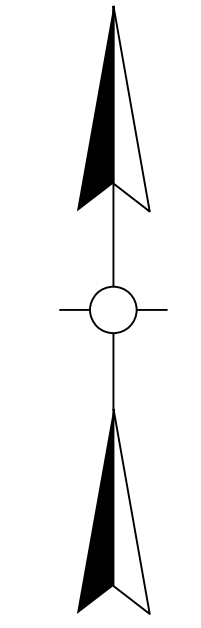
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FILE NAME: \$\$\$designsfiles\$\$\$
E-SHEET NAME:

REVISÉ 12-3-12

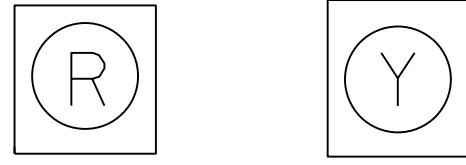


R3-2 SIGN
SIGN A

INSTALL 36" x 36" "LEFT TURN PROHIBITED" SIGN R3-2, ON SPAN AS SHOWN.



SIGNAL HEADS
ALL INDICATIONS L.E.D.



HEAD #	HEAD #
4A, 4B, 8A, 8B	2A, 2B, 2C, 2D, 6A, 6B 6C, 6D

ALL 12" SIZE

WIRING SCHEDULE

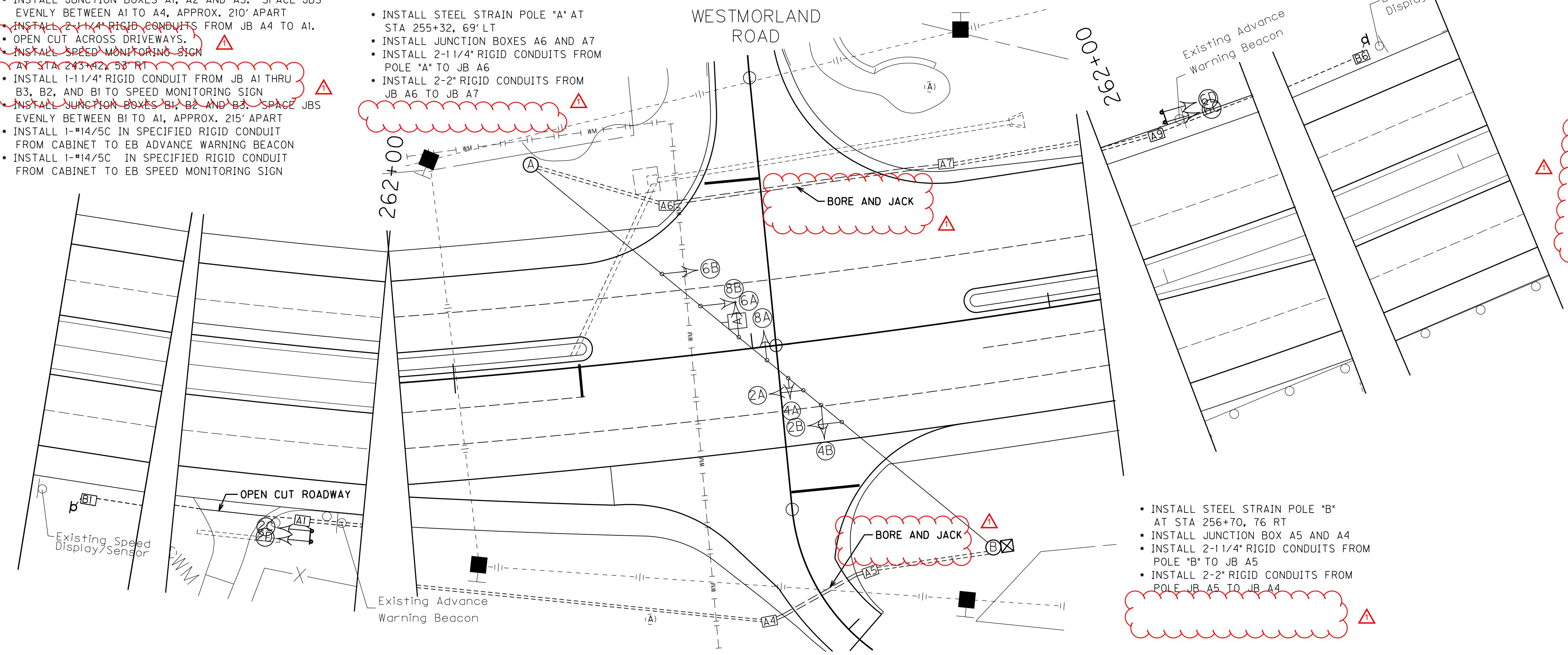
CABLE	ORIGIN	ENDING	CONNECTING
1-#14/7C	CONTROLLER	SH 6B	SH 2A,2B,6A & 6B
1-#14/7C	CONTROLLER	SH 8B	SH 4B,4A,8A & 8B
1-#14/5C	CONTROLLER	EB SPEED	EB SPEED MONITORING SIGN
1-#14/5C	CONTROLLER	EB AWB	EB AWB
1-#14/5C	CONTROLLER	WB AWB	WB AWB
1-#14/5C	CONTROLLER	WB SPEED	WB SPEED MONITORING SIGN

- INSTALL AWB AT STA 262+17, 53' LT
- INSTALL JUNCTION BOXES A8 AND A9. SPACE JBS EVENLY BETWEEN A7 TO A9, APPROX. 265' APART
- INSTALL 2-1 1/4" RIGID CONDUITS FROM JB A7 TO A9.
- INSTALL SPEED MONITORING SIGN
- AT STA 266+87, 53' LT
- INSTALL 1-1 1/4" RIGID CONDUIT FROM JB A9 THRU B3, B4 AND B5 TO SPEED MONITORING SIGN
- INSTALL JUNCTION BOXES B4, B5, AND B6. SPACE JBS EVENLY BETWEEN A9 TO B6, APPROX. 225' APART
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO WB ADVANCE WARNING BEACON
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO WB SPEED MONITORING SIGN

- INSTALL AWB AT STA 249+82, 53' RT
- INSTALL JUNCTION BOXES A1, A2 AND A3. SPACE JBS EVENLY BETWEEN A1 TO A4, APPROX. 210' APART
- INSTALL 2-1 1/4" RIGID CONDUITS FROM JB A4 TO A1.
- OPEN CUT ACROSS DRIVEWAYS.
- INSTALL SPEED MONITORING SIGN
- AT STA 243+42, 53' RT
- INSTALL 1-1 1/4" RIGID CONDUIT FROM JB A1 THRU B3, B2, AND B1 TO SPEED MONITORING SIGN
- INSTALL JUNCTION BOXES B1, B2 AND B3. SPACE JBS EVENLY BETWEEN B1 TO A1, APPROX. 215' APART
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO EB ADVANCE WARNING BEACON
- INSTALL 1-#14/5C IN SPECIFIED RIGID CONDUIT FROM CABINET TO EB SPEED MONITORING SIGN

- INSTALL STEEL STRAIN POLE 'A' AT STA 255+32, 69' LT
- INSTALL JUNCTION BOXES A6 AND A7
- INSTALL 2-1 1/4" RIGID CONDUITS FROM POLE 'A' TO JB A6
- INSTALL 2-2" RIGID CONDUITS FROM JB A6 TO JB A7

- INSTALL STEEL STRAIN POLE 'B' AT STA 256+70, 76 RT
- INSTALL JUNCTION BOX A5 AND A4
- INSTALL 2-1 1/4" RIGID CONDUITS FROM POLE 'B' TO JB A5
- INSTALL 2-2" RIGID CONDUITS FROM POLE JB A5 TO JB A4



POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	34	11,011	220	0.523
B	34	11,011	220	0.523

*FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

PREPARED BY: D. FRANKE
CHECKED BY: _____
APPROVED BY: _____
DATE: 12/03/12

USER: \$\$\$USER\$\$\$
DATE: \$\$\$DATE\$\$\$
FILE NAME: \$\$\$designs\$\$\$files\$\$\$specifications\$\$\$
E-SHEET NAME:

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CONTRACTOR SHALL REMOVE EXISTING SPEED MONITORING SITES AND REPLACE WITH NEW POLES AND SPEED MONITORING EQUIPMENT. CONTRACTOR SHALL REUSE EXISTING SHEET SIGNS. ALL OTHER EQUIPMENT AND HARDWARE SHALL BE NEW. SIGN REMOVAL AND REMOUNTING SHALL BE PART OF BID ITEM 2063IND, INSTALL POLE MOUNTED SIGN.

NEW SPEED MONITORING EQUIPMENT WILL BE K & K SYSTEMS, INC., MODEL NO. RPM-18. ALL LABOR AND MATERIALS TO FURNISH AND INSTALL ARE PART OF BID ITEM 24568ED.

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR SOME OF THE ATTACHMENTS OF THE MESSENGER CABLE. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

BREAKAWAY SIGNS:

SEE SHEETS T21 AND T22 FOR DETAILS. CONTRACTOR SHALL PROVIDE TWO FUSE CONNECTORS FOR EACH AWB, AWF AND SPEED MONITORING SIGN. THE HOT WILL HAVE A FUSE WHILE THE NEUTRAL WILL HAVE A FUSE LUG.

FOR SPEED MONITORING EQUIPMENT, CONTRACTOR SHALL CUT EACH LUMINAIRE POLE OFF ONE FOOT ABOVE EACH SIGN ASSEMBLY AND PROVIDE AN ALUMINUM CAP FOR EACH POLE. CAP SHALL FIT SECURELY AND HAVE A MINIMUM OF THREE SET SCREWS. ALL WORK DESCRIBED HERE SHALL BE INCIDENTAL TO PAY ITEM INSTALL LUMINAIRE POLE (22939ND).

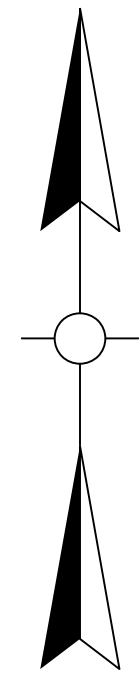
CONTRACTOR SHALL INSTALL A SEPARATE GROUND FOR EACH SPEED MONITORING SIGN. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE INSIDE TRANSFORMER BASE FOR TESTING.

SPAN WIRE	MESSENGER WIRE	SAG	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING		
			POLE	FT		FROM	TO	FT
1	15,400	4.0	A	31.0	2-1 SEC. SIGN A 6-1 SEC.	A	6B	57.0
			B	31.0		A	6A	74.0
							A	83.5
							8B	90.0
							8A	102.0
							4A	111.5
							2A	118.0
							4B	126.0
							2B	135.0

	EXISTING SIGNAL OR UTILITY POLE
	336 CONTROLLER
	STEEL STRAIN POLE
	JUNCTION BOX TYPES A OR B (AS DESIGNATED)
	SIGNAL HEAD
	ADVANCE WARNING BEACON
	NEW SPEED MONITORING SIGN
	2" RIGID STEEL CONDUIT (JACK AND BORE)
	1/4" RIGID STEEL CONDUIT (UNLESS NOTED OTHERWISE)

SCALE: 1"=20'

US 60 (VERSAILLES RD) AT WESTMORLAND ROAD/OLD VERSAILLES RD



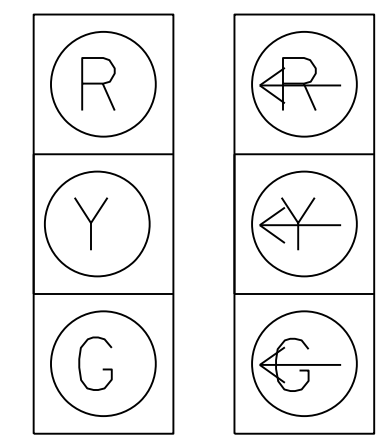
LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
2A	2	I2	1	6'X6'	3	369'
2B	2	I2	2	6'X6'	3	369'
2C	2	I3	1	6'X6'	3	210'
2D	2	I3	2	6'X6'	3	210'
5	5	J1	1	6'X30'	2	0'
6A	6	J2	1	6'X6'	3	369'
6B	6	J2	1	6'X6'	3	369'
6C	6	J2	2	6'X6'	3	369'
6D	6	J3	1	6'X6'	3	210'
6E	6	J3	1	6'X6'	3	210'
6F	6	J3	2	6'X6'	3	210'

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-1/4/7C	CONTROLLER	SH 5	SH 5
1-1/4/7C	CONTROLLER	SH 2A	SH 2A & 2B
1-1/4/7C	CONTROLLER	SH 6C	SH 6A,6B & 6C
1-1/4/7C	CONTROLLER	SH 8B	SH 8A & 8B
2-1/4/1 PAIR	CONTROLLER	JB1	LOOPS 2A & 2B
2-1/4/1 PAIR	CONTROLLER	JB2	LOOPS 2C & 2D
1-1/4/1 PAIR	CONTROLLER	JB3	LOOP 5
3-1/4/1 PAIR	CONTROLLER	JB5	LOOPS 6D,6E,6F
3-1/4/1 PAIR	CONTROLLER	JB6	LOOPS 6A,6B,6C
1-VIDEO CABLE	CONTROLLER	VD A	VIDEO DETECTOR A

SIGNAL HEADS



HEAD # HEAD #
2A, 2B, 5
6A, 6B, 6C, 8A, 8B

ALL INDICATIONS L.E.D.
ALL MAINLINE HEADS
WILL HAVE BACKPLATES

SIGNAL SPANS

SPAN WIRE	MESSENGER WIRE	SAG	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING		
			POLE	FT		FROM	TO	FT
1	10,800	5.0	A	28.5	3-3 SEC.	A	5	141.0
			B	33.5		2A	153.0	2B
2	10,800	5.0	B	27.5	2-3 SEC.	B	8A	12.0
			C	27.5		8B	25.0	
3	10,800	5.0	C	32.5	3-3 SEC.	C	6A	98.0
			D	28.5		6B	110.0	6C

PREPARED BY: D. FRANKE
CHECKED BY: _____
APPROVED BY: _____
DATE: 12/03/12
DATE: _____
DATE: _____

NOTES:

ELECTRICAL CONTRACTOR SHALL CONTACT KYTC DISTRICT TRAFFIC SUPERVISOR, LOGAN BAKER (859-246-2355), LFUGC CONTACTS LISTED BELOW, AND KEENELAND AT LEAST TWO WEEKS PRIOR TO TRAFFIC SIGNAL WORK/INSTALLATION SO THEY CAN COORDINATE THE REMOVAL OF THEIR ITEMS.

IN ADDITION TO THE EXISTING SIGNAL POLES, CONTRACTOR SHALL REMOVE THE WOOD POLES NEAR STRAIN POLES A AND D. KYTC CONSIDERS REMOVAL OF ALL EXISTING EQUIPMENT INCIDENTAL TO BID ITEM 4950, REMOVE SIGNAL EQUIPMENT.

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ALL 6'x30' LOOPS SHALL BE QUADRAPOLE. INSTALL 1" RIGID STEEL CONDUIT FROM JUNCTION BOX TO EACH LOOP SAW SLOT.

ALL TRAFFIC CONTROL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING LATEST, LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF TRAFFIC ENGINEERING SPECIFICATIONS: TRAFFIC SIGNAL AND CONTROL EQUIPMENT, INSTALLATION OF TRAFFIC SIGNALIZATION FOR NEW CONSTRUCTION AND EMERGENCY REPAIRS, AND FIBER-OPTIC CABLE AND CONTROL EQUIPMENT.

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CONTRACTOR TO PROVIDE A 2070 CONTROLLER COMPLETE WITH LOADED SOFTWARE IN THE 332 BASE CABINET. INSTALL 2-3 INCH CONDUITS FOR FUTURE FIBER OPTIC CABLE INTO BASE MOUNT CABINET. THE VIDEO DETECTION EQUIPMENT SHALL BE ITERIS COLOR CAMERAS. SEE SPECIFICATIONS AND CONTACT LFUGC FOR ADDITIONAL DETAILS BEFORE ORDERING.

FINAL POLE, CONTROLLER, CONDUIT AND JUNCTION BOX LOCATIONS SHALL BE FIELD DETERMINED TO AVOID CONFLICTS WITH EXISTING UTILITIES AND APPROVED BY THE ENGINEER. CONTRACTOR SHALL CONTACT THE KYTC DISTRICT TRAFFIC SUPERVISOR TO VERIFY CURRENT POLE SPECIFICATIONS ARE ADEQUATE IF POLE LOCATIONS DIFFER THAN AS INDICATED ON THE PLANS.

COMMUNICATION CABLE (COAX) SHALL BE RUN IN ITS OWN CONDUIT SEPARATE FROM THE SIGNAL CABLES AND POWER CABLE.

- INSTALL JUNCTION BOXES B1 AND B2
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B1 TO B2
- SPLICE LOOP WIRES TO TWO 1-PAIR LOOP LEAD-INS INSIDE JB B1 AND B2.
- OPEN CUT ACROSS DRIVEWAYS AND SIDEWALKS.

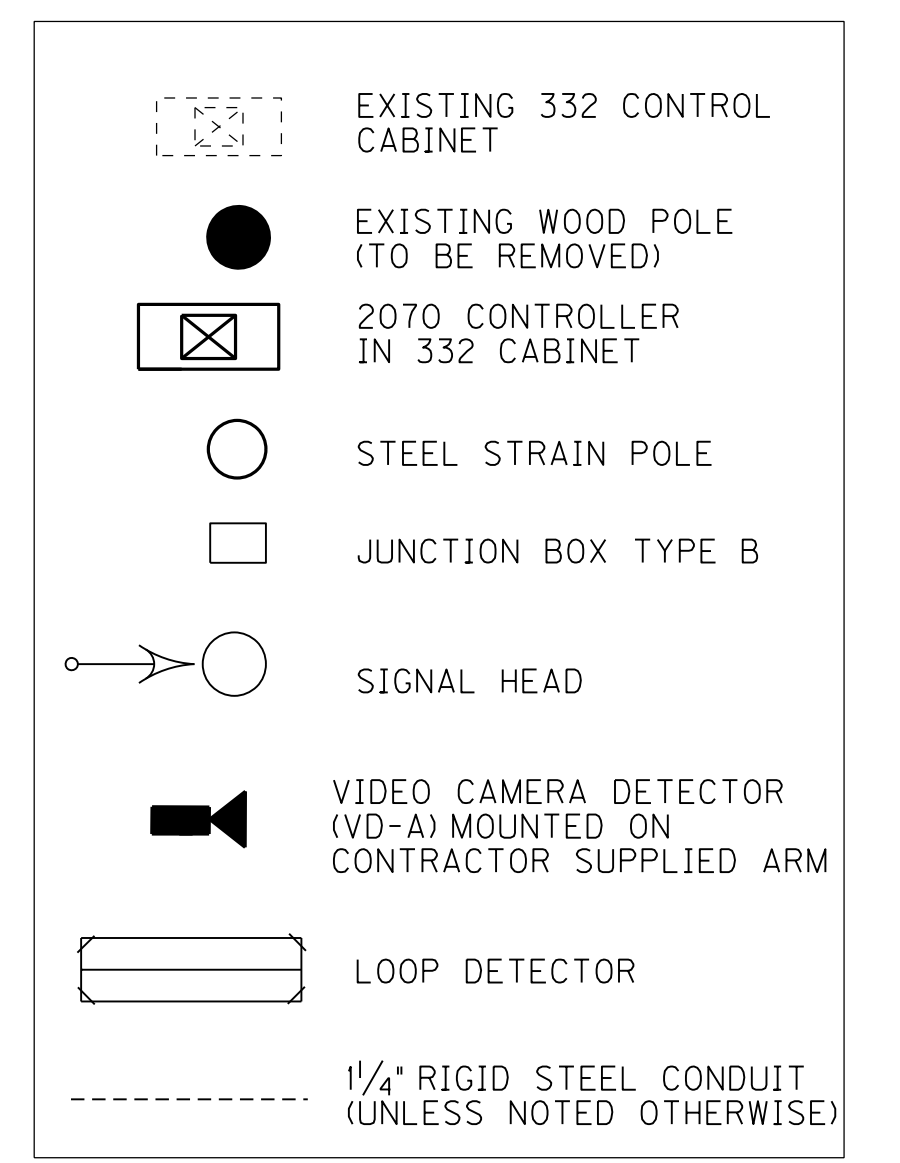
- INSTALL STEEL STRAIN POLE "C" AT STA 346+70, 82' RT
- INSTALL JUNCTION BOX B3
- INSTALL 2" RIGID CONDUIT FROM JB B2 TO JB B3 TO JB B4
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B3

- INSTALL STEEL STRAIN POLE "B" AT STA 347+76, 83' RT
- INSTALL TYPE 2070 CONTROLLER IN MODEL 332 BASE MOUNT CABINET
- INSTALL 4-2" RIGID STEEL CONDUITS FROM CONTROLLER CABINET TO POLE "B"
- INSTALL JUNCTION BOX B4
- INSTALL 2" RIGID CONDUIT FROM CABINET TO JB B4
- INSTALL 2" RIGID CONDUIT FROM JB B4 TO A1.
- INSTALL VIDEO DETECTION CAMERA "VD-A"
- INSTALL VIDEO CABLE FROM CAMERA TO CONTROLLER CABINET
- INSTALL 2-3" RIGID STEEL CONDUITS STUBBED OUT FROM CONTROLLER BASE FOR FUTURE FIBER OPTICS (COORDINATE WITH LFUGC)
- INSTALL ADDITIONAL ELECTRICAL SERVICE DISCONNECT ON POLE B.
- INSTALL BEACON CONTROLLER CABINET ON POLE B FOR POLICE TRAFFIC SIGNAL CONTROL.

TRAFFIC SIGNAL POLES				
POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	32	7,138	186	0.582
B	36	8,776	255	0.573
C	36	7,010	191	0.544
D	32	5,377	137	0.510

* FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

BORE AND JACK 2-2" STEEL CONDUITS FOR
1) 6 1-PAIR LOOP LEAD-INS
2) SPARE

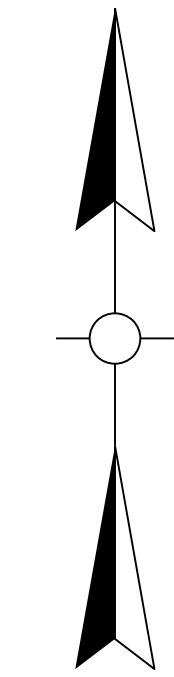


SCALE: 1"=20'

US 60 (VERSAILLES RD) AT
KEENELAND CLUBHOUSE LANE (GATE 2)

USER: \$\$\$USER\$\$\$
DATE: \$\$\$DATE\$\$\$
FILE NAME: \$\$\$designs\$\$\$files\$specifications\$\$\$
E-SHEET NAME:

▲ REVISED 12-3-12



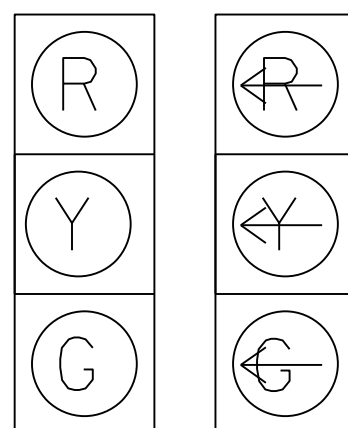
LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
2A	2	12	1	6'X6'	3	369'
2B	2	12	2	6'X6'	3	369'
2C	2	13	1	6'X6'	3	210'
2D	2	13	2	6'X6'	3	210'
5	5	J1	1	6'X30'	2	0'
6A	6	J2	1	6'X6'	3	369'
6B	6	J2	1	6'X6'	3	369'
6C	6	J2	2	6'X6'	3	369'
6D	6	J3	1	6'X6'	3	210'
6E	6	J3	1	6'X6'	3	210'
6F	6	J3	2	6'X6'	3	210'

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-1/4" TC	CONTROLLER	SH 5	SH 5
1-1/4" TC	CONTROLLER	SH 2A	SH 2A & 2B
1-1/4" TC	CONTROLLER	SH 6C	SH 6A,6B & 6C
1-1/4" TC	CONTROLLER	SH 8B	SH 8A & 8B
2-1/4" PAIR	CONTROLLER	JB1	LOOPS 2A & 2B
2-1/4" PAIR	CONTROLLER	JB2	LOOPS 2C & 2D
1-1/4" PAIR	CONTROLLER	JB3	LOOP 5
3-1/4" PAIR	CONTROLLER	JB5	LOOPS 6D,6E,6F
3-1/4" PAIR	CONTROLLER	JB6	LOOPS 6A,6B,6C
1-VIDEO CABLE	CONTROLLER	VD A	VIDEO DETECTOR A

SIGNAL HEADS



HEAD # HEAD #
2A, 2B, 5
6A, 6B, 6C, 8A, 8B

ALL INDICATIONS L.E.D.
ALL MAINLINE HEADS
WILL HAVE BACKPLATES

SIGNAL SPANS

SPAN WIRE	MESSENGER WIRE LBS	SAG %	ATTACHMENT HEIGHT		NO. SIGNALS/SIGNS	SPACING		
			POLE	FT		FROM	TO	FT
1	10,800	5.0	A	28.5	3-3 SEC.	A	5	141.0
			B	33.5		2A	153.0	2B
2	10,800	5.0	B	27.5	2-3 SEC.	B	8A	12.0
			C	27.5		8B	25.0	
3	10,800	5.0	C	32.5	3-3 SEC.	C	6A	98.0
			D	28.5		6B	110.0	6C

OLD CLUBHOUSE LANE

• INSTALL STEEL STRAIN POLE "D" AT STA 346+65, 104.5' LT

• INSTALL STEEL STRAIN POLE "A" AT STA 347+61, 124' LT

TRAFFIC SIGNAL POLES

POLE	POLE HEIGHT	STRINGING TENSION AT YIELD	CALCULATED SERVICE MOMENT	MAXIMUM DEFLECTION RATE
	FT	LBS	FT-KIPS	
A	32	7,138	186	0.582
B	36	8,776	255	0.573
C	36	7,010	191	0.544
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* FOR POLE BASE DIMENSIONS, REFER TO POLE BASE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION LATEST EDITION.

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COMMUNICATION CABLE (COAX) SHALL BE RUN IN ITS OWN CONDUIT SEPARATE FROM THE SIGNAL CABLES AND POWER CABLE.

- INSTALL JUNCTION BOXES B1 AND B2
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B1 TO B2
- SPLICE LOOP WIRES TO TWO 1-PAIR LOOP LEAD-INS INSIDE JB B1 AND B2.
- OPEN CUT ACROSS DRIVEWAYS AND SIDEWALKS.

- INSTALL STEEL STRAIN POLE "C" AT STA 346+70, 82' RT
- INSTALL JUNCTION BOX B3
- INSTALL 2" RIGID CONDUIT FROM JB B2 TO JB B3 TO JB B4
- SPLICE LOOP WIRES TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B3

- INSTALL STEEL STRAIN POLE "B" AT STA 347+76, 83' RT
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- INSTALL 4-2" RIGID STEEL CONDUITS FROM CONTROLLER CABINET TO POLE "B"
- INSTALL JUNCTION BOX B4
- INSTALL 2" RIGID CONDUIT FROM CABINET TO JB B4
- INSTALL 2" RIGID CONDUIT FROM JB B4 TO A1
- INSTALL VIDEO DETECTION CAMERA "VD-A"
- INSTALL VIDEO CABLE FROM CAMERA TO CONTROLLER CABINET
- INSTALL 2-3" RIGID STEEL CONDUITS STUBBED OUT FROM CONTROLLER BASE FOR FUTURE FIBER OPTICS (COORDINATE WITH LFUGC)
- INSTALL ADDITIONAL ELECTRICAL SERVICE DISCONNECT ON POLE B.
- INSTALL BEACON CONTROLLER CABINET ON POLE B FOR POLICE TRAFFIC SIGNAL CONTROL.

- INSTALL JUNCTION BOXES A1, A2, B5 AND B6
- INSTALL 1 1/4" RIGID CONDUIT FROM JB B5 TO JB B6
- INSTALL 2" RIGID CONDUITS FROM JB A1, TO A2 AND B5. RUN FROM JB A1 TO A2 INCLUDES A SECOND 2" CONDUIT TO BE USED AS A SPARE
- SPLICE LOOP WIRES TO THREE 1-PAIR LOOP LEAD-INS INSIDE JB B5 AND B6.

LEGEND

- EXISTING 332 CONTROL CABINET
- EXISTING WOOD POLE (TO BE REMOVED)
- 2070 CONTROLLER IN 332 CABINET
- STEEL STRAIN POLE
- JUNCTION BOX TYPE B
- SIGNAL HEAD
- VIDEO CAMERA DETECTOR (VD-A) MOUNTED ON CONTRACTOR SUPPLIED ARM
- LOOP DETECTOR
- 1/4" RIGID STEEL CONDUIT (UNLESS NOTED OTHERWISE)

SCALE: 1"=20'

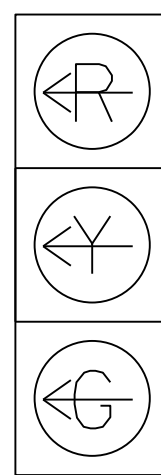
US 60 (VERSAILLES RD) AT KEENELAND CLUBHOUSE LANE (GATE 2)

PREPARED BY: D. FRANKE
CHECKED BY: _____
APPROVED BY: _____

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DATE: \$\$\$DATE\$\$\$
FILE NAME: \$\$\$designs\$\$\$files\$\$\$specifications\$\$\$
E-SHEET NAME:

PREPARED BY D. FRANKE DATE 12/03/12
 CHECKED BY DATE
 APPROVED BY DATE

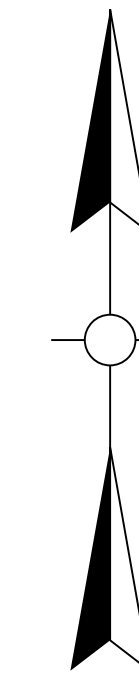
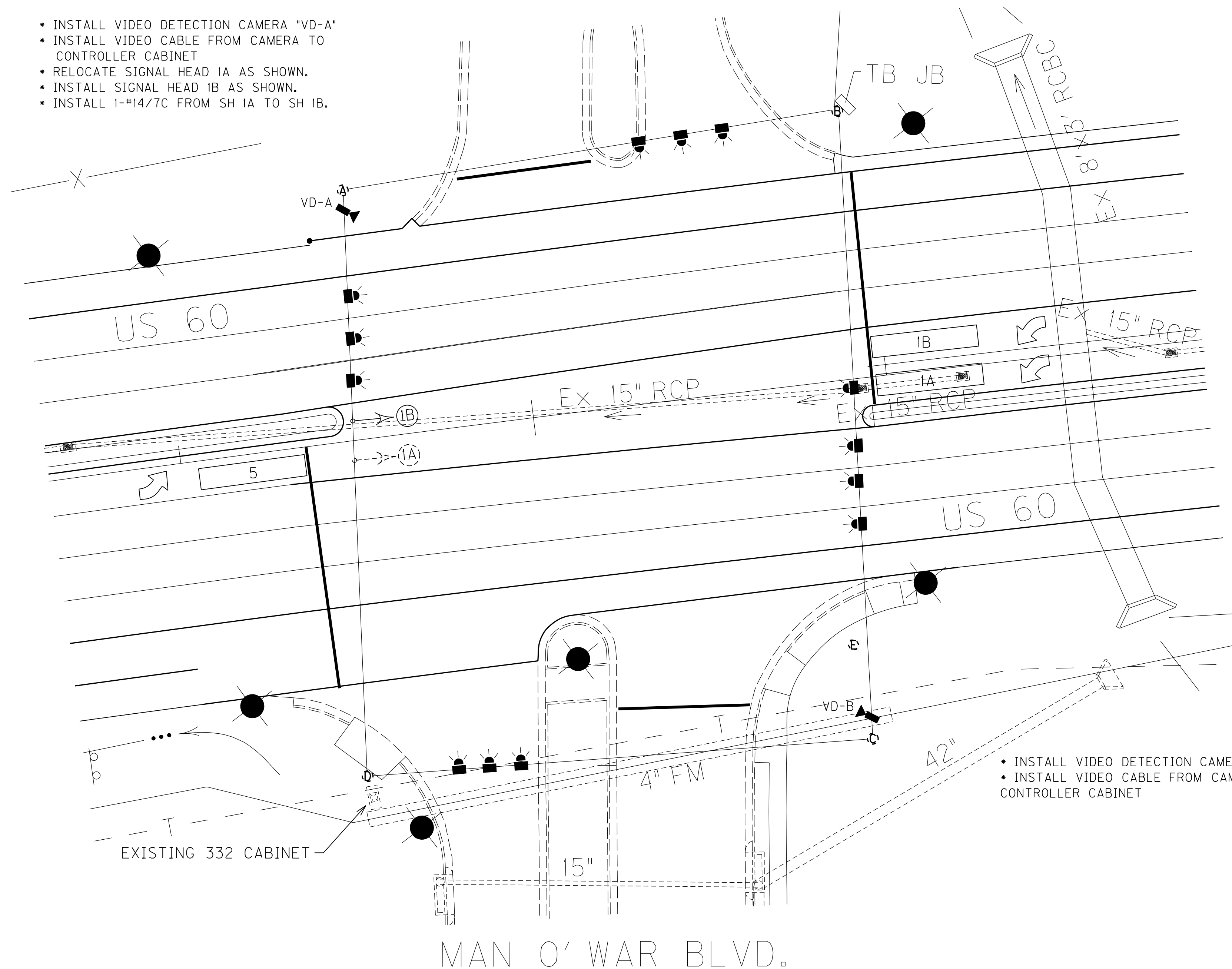
SIGNAL HEADS
 ALL INDICATIONS L.E.D.



HEAD #
 1B

ALL 12" SIZE
 WITH BACKPLATES

- INSTALL VIDEO DETECTION CAMERA "VD-A"
- INSTALL VIDEO CABLE FROM CAMERA TO CONTROLLER CABINET
- RELOCATE SIGNAL HEAD 1A AS SHOWN.
- INSTALL SIGNAL HEAD 1B AS SHOWN.
- INSTALL 1-"14/7C FROM SH 1A TO SH 1B.



NOTES:

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MAINLINE LEFT TURNS WILL USE VIDEO DETECTION.

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FINAL VIDEO CAMERA AND SIGNAL HEAD LOCATIONS SHALL BE FIELD DETERMINED TO AVOID CONFLICTS AND APPROVED BY THE LFUCG ENGINEER.

IF NECESSARY, INSTALL 1-INCH RGS CONDUIT ON POLE FOR VIDEO CABLE.

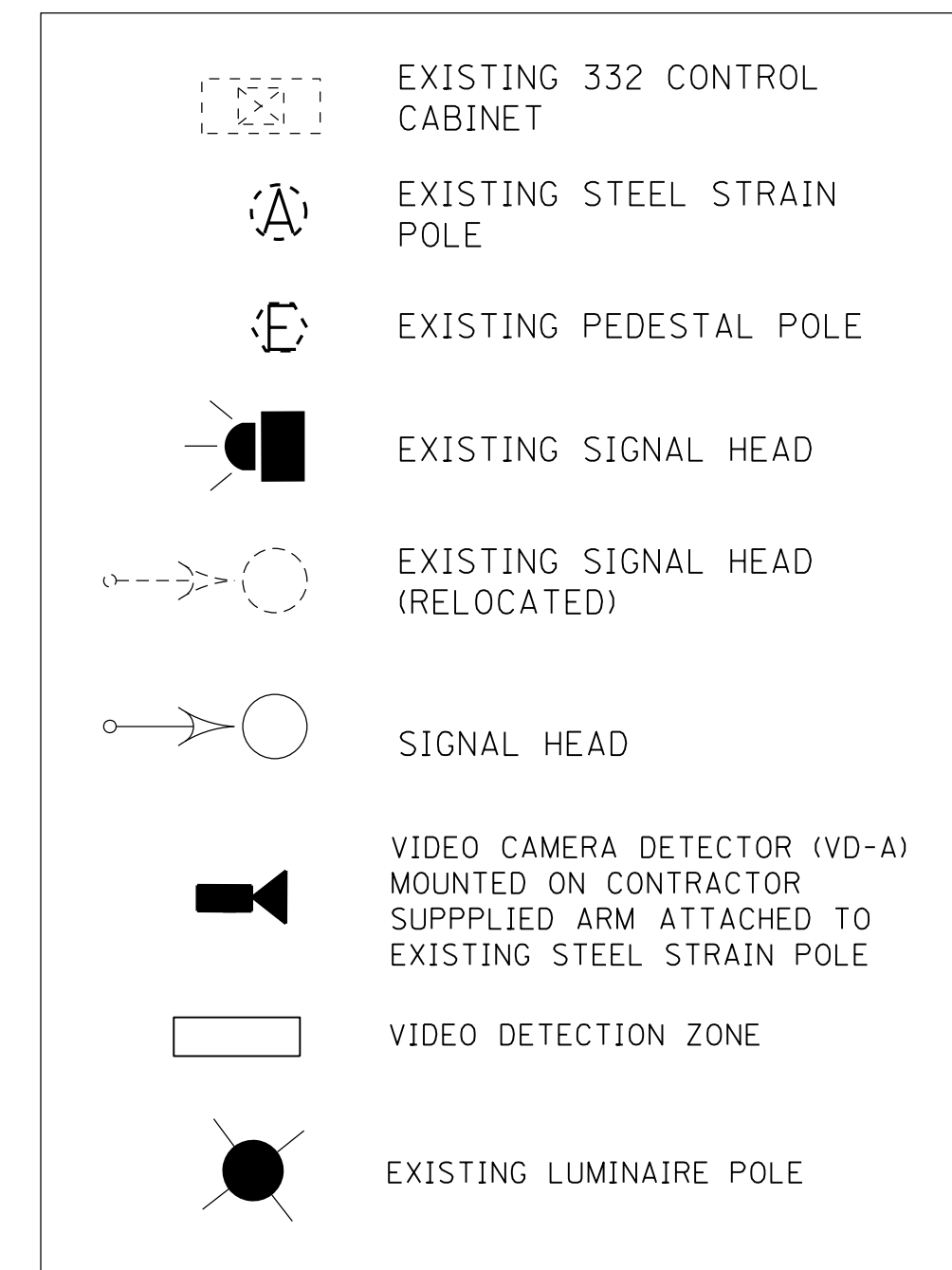
- INSTALL VIDEO DETECTION CAMERA "VD-B"
- INSTALL VIDEO CABLE FROM CAMERA TO CONTROLLER CABINET

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-"14/7C	SH 1A	SH 1B	SH 1A & 1B
1-VIDEO CABLE	CONTROLLER	VD A	VIDEO DETECTOR A
1-VIDEO CABLE	CONTROLLER	VD B	VIDEO DETECTOR B

VIDEO DETECTION ZONES

ZONE	SIZE	NO. OF TURNS	PHASE	DISTANCE FROM STOP BAR	CHANNEL	SLOT
1A	6'x30'	NA	1	0'	1	I1
1B	6'x30'	NA	1	0'	1	I1
5	6'x30'	NA	5	0'	1	J1

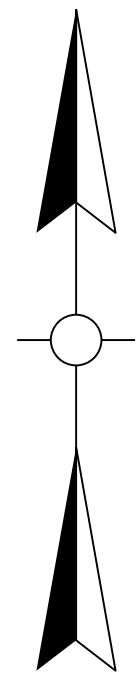


SCALE: 1"=20'

US 60 (VERSAILLES RD) AT
 MAN O' WAR BLVD

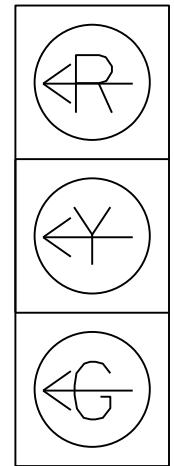
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△ REVISED 12-3-12



PREPARED BY D. FRANKE DATE 12/03/12
 CHECKED BY DATE
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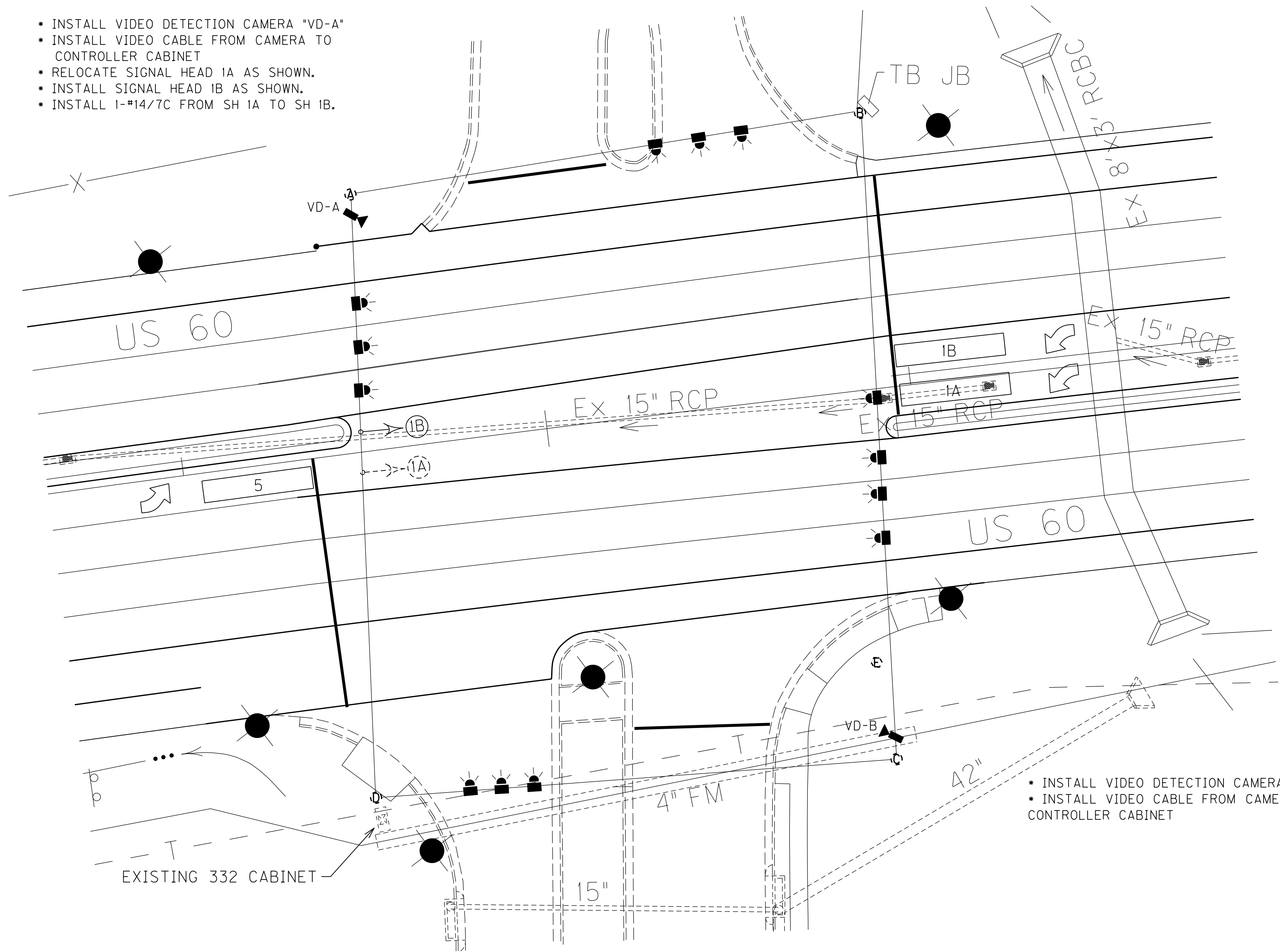
SIGNAL HEADS
 ALL INDICATIONS L.E.D.



HEAD #
 1B

ALL 12" SIZE
 WITH BACKPLATES

- INSTALL VIDEO DETECTION CAMERA "VD-A"
- INSTALL VIDEO CABLE FROM CAMERA TO CONTROLLER CABINET
- RELOCATE SIGNAL HEAD 1A AS SHOWN.
- INSTALL SIGNAL HEAD 1B AS SHOWN.
- INSTALL 1-"14/7C FROM SH 1A TO SH 1B.



- INSTALL VIDEO DETECTION CAMERA "VD-B"
- INSTALL VIDEO CABLE FROM CAMERA TO CONTROLLER CABINET

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IF NECESSARY, INSTALL 1-INCH RGS CONDUIT ON POLE FOR VIDEO CABLE.

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-"14/7C	SH 1A	SH 1B	SH 1A & 1B
1-VIDEO CABLE	CONTROLLER	VD A	VIDEO DETECTOR A
1-VIDEO CABLE	CONTROLLER	VD B	VIDEO DETECTOR B

VIDEO DETECTION ZONES

ZONE	SIZE	NO. OF TURNS	PHASE	DISTANCE FROM STOP BAR	CHANNEL	SLOT
1A	6'x30'	NA	1	0'	1	I1
1B	6'x30'	NA	1	0'	1	I1
5	6'x30'	NA	5	0'	1	J1

- EXISTING 332 CONTROL CABINET
- EXISTING STEEL STRAIN POLE
- EXISTING PEDESTAL POLE
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD (RELOCATED)
- SIGNAL HEAD
- VIDEO CAMERA DETECTOR (VD-A) MOUNTED ON CONTRACTOR SUPPLIED ARM ATTACHED TO EXISTING STEEL STRAIN POLE
- VIDEO DETECTION ZONE
- EXISTING LUMINAIRE POLE

SCALE: 1"=20'

US 60 (VERSAILLES RD) AT
 MAN O' WAR BLVD

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
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 E-SHEET NAME:

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED
 ON TRAFFIC SIGNALS/LIGHTING**

Item Number: **7-2033.00**

County: **Fayette/Woodford**

Description: **Signals at US 60 and the following intersections - Huntertown Rd,
 Pisgah Pk, Westmorland, Keeneland Gate 2 and Man O War**

Cabinets	Master code	Description of Item
1	T-01-0010	Pole Mounted 336 Cabinet
3	T-01-0020	Base Mounted 332 Cabinet
2	T-01-0100	170 Controller
2	T-01-0501	Conflict Monitor, Model 2018
1	T-01-0510	Isolator, Model 242 (for ped detector and railroad)
13	T-01-0600	Loop Detector, Model 222
17	T-01-0700	Load Switches

Signals		
20	T-02-0009	Siemens 3 Section Signal
3	T-02-0015	Siemen 3 Section backplate w/tape
2	T-02-0016	Siemen 4 Section in-line backplate w/tape (poly only)
8	T-02-0017	Siemen 4 section Dbl. red backplate w/tape (poly only)
7	T-02-0032	Siemen 3 section backplate
2	T-02-0033	Siemen 4 section 12" signal (poly)
8	T-02-0034	Siemen 4 section 12" signal double red
16	T-02-0080	12 inch red/yellowbeacon
2	T-02-0090	Pedestrian signal housing
6	T-02-0300	LED Module 12" red arrow
8	T-02-0310	LED Module 12" yellow arrow
6	T-02-0320	LED Module 12" green arrow
36	T-02-0330	LED Module 12" red ball
36	T-02-0340	LED Module 12" yellow ball
24	T-02-0350	LED Module 12" green ball
2	T-02-0365	LED Countdown Pedestrian Module

Special items		
2	T-03-0240	Jumper 60' N-N RG-213
1	T-09-0415	30 X 36 through 36 X 36 sign hanger (New)
2	T-02-0661	Post Top for Pedestal (each)
2	T-02-0670	Pedestal
2	T-06-0710	Ped Detector Pole Mount FSA Box
2	T-06-0730	Ped Button w/o Plunger
2	T-17-0015	9 X 15 Countdown Ped Sign DBL Sided

Poles		
2	T-04-0030	Steel Strain Pole 32 foot
9	T-04-0040	Steel Strain Pole 34 foot
5	T-04-0051	Steel Strain Pole 36 foot
2	T-04-0054	Steel Strain Pole 38 foot

Electrical Contractor Name _____
 Electrical Contractor Supervisor _____ Contact number for Supervisor _____
 Project Engineer _____ Contact number for Project Engineer _____
 Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
 Signature of Project Engineer or Designee _____

MATERIAL SUMMARY

CONTRACT ID: 121380

121GR12D080-NH

DE03400601280

LEXINGTON-VERSAILLES ROAD (US 60) PAVEMENT REHABILITATION ON US 60 FROM WOODFORD COUNTY LINE TO KY 4 IN LEXINGTON GRADE & DRAIN AND PAVEMENT ALTERNATES, A DISTANCE OF 4.36 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0010	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	127.00	EACH
0020	01984	DELINEATOR FOR BARRIER - WHITE	10.00	EACH
0030	02014	BARRICADE-TYPE III	28.00	EACH
0040	02223	GRANULAR EMBANKMENT	156.00	CUYD
0050	02237	DITCHING	32,636.00	LF
0060	02469	CLEAN SINKHOLE	3.00	EACH
0070	02562	SIGNS	1,400.00	SQFT
0080	02599	FABRIC-GEOTEXTILE TYPE IV	270.00	SQYD
0090	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE COUNTY)	1.00	LS
0100	02651	DIVERSIONS (BY-PASS DETOURS) - (FAYETTE COUNTY - #7)	1.00	LS
0110	02651	DIVERSIONS (BY-PASS DETOURS) - (FAYETTE COUNTY - #6)	1.00	LS
0120	02651	DIVERSIONS (BY-PASS DETOURS) - (FAYETTE COUNTY - #5)	1.00	LS
0130	02651	DIVERSIONS (BY-PASS DETOURS) - (FAYETTE COUNTY - #4)	1.00	LS
0140	02671	PORTABLE CHANGEABLE MESSAGE SIGN	7.00	EACH
0150	02690	SAFELOADING	27.10	CUYD
0160	02720	SIDEWALK-4 IN CONCRETE	37.00	SQYD
0170	02726	STAKING - (FAYETTE COUNTY)	1.00	LS
0180	02775	ARROW PANEL	2.00	EACH
0190	03225	TUBULAR MARKERS	1,056.00	EACH
0200	05950	EROSION CONTROL BLANKET	81,704.00	SQYD
0210	05990	SODDING	1,312.00	SQYD
0220	06510	PAVE STRIPING-TEMP PAINT-4 IN	342,870.00	LF
0230	06514	PAVE STRIPING-PERM PAINT-4 IN	113,607.00	LF
0240	06549	PAVE STRIPING-TEMP REM TAPE-B	7,000.00	LF
0250	06550	PAVE STRIPING-TEMP REM TAPE-W	7,000.00	LF
0260	06551	PAVE STRIPING-TEMP REM TAPE-Y	7,000.00	LF
0270	06565	PAVE MARKING-THERMO X-WALK-6 IN	540.00	LF
0280	06568	PAVE MARKING-THERMO STOP BAR-24IN	287.00	LF
0290	06572	PAVE MARKING-DOTTED LANE EXTEN	640.00	LF
0300	06574	PAVE MARKING-THERMO CURV ARROW	83.00	EACH
0310	06578	PAVE MARKING-THERMO MERGE ARROW	5.00	EACH
0320	06585	PAVEMENT MARKER TY IVA-MW TEMP	2,305.00	EACH
0330	06586	PAVEMENT MARKER TY IVA-MY TEMP	577.00	EACH
0340	06589	PAVEMENT MARKER TYPE V-MW	577.00	EACH
0350	06590	PAVEMENT MARKER TYPE V-MY	966.00	EACH
0360	06591	PAVEMENT MARKER TYPE V-BY	187.00	EACH
0370	20411ED	LAW ENFORCEMENT OFFICER	2,100.00	HOURL
0380	20418ED	REMOVE & RELOCATE SIGNS	1.00	EACH
0390	20467NS112	RELOCATE TUBULAR MARKER	1,056.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0400	22664EN	WATER BLASTING EXISTING STRIPE	212,814.00	LF
0410	23143ED	KPDES PERMIT AND TEMP EROSION CONTROL - (FAYETTE COUNTY)	1.00	LS
0420	23274EN11F	TURF REINFORCEMENT MAT 1	1,533.00	SQYD
0430	00001	DGA BASE	17,395.00	TON
0440	00018	DRAINAGE BLANKET-TYPE II-ASPH	10,083.00	TON
0450	00020	TRAFFIC BOUND BASE	128.00	TON
0460	00100	ASPHALT SEAL AGGREGATE	167.00	TON
0470	00103	ASPHALT SEAL COAT	20.00	TON
0480	00190	LEVELING & WEDGING PG64-22	2,864.00	TON
0490	00214	CL3 ASPH BASE 1.00D PG64-22	58,134.00	TON
0500	00217	CL4 ASPH BASE 1.00D PG64-22	46,221.00	TON
0510	00219	CL4 ASPH BASE 1.00D PG76-22	36,276.00	TON
0520	00339	CL3 ASPH SURF 0.38D PG64-22	4,205.00	TON
0530	00342	CL4 ASPH SURF 0.38A PG76-22	10,689.00	TON
0540	00358	ASPHALT CURING SEAL	48.00	TON
0550	02058	REMOVE PCC PAVEMENT	38,513.00	SQYD
0560	02091	REMOVE PAVEMENT	8,502.00	SQYD
0570	02107	BREAKING AND SEATING PAVEMENT	112,704.00	SQYD
0580	02200	ROADWAY EXCAVATION	14,990.00	CUYD
0590	02585	EDGE KEY	776.00	LF
0600	02676	MOBILIZATION FOR MILL & TEXT - (FAYETTE COUNTY)	1.00	LS
0610	02677	ASPHALT PAVE MILLING & TEXTURING	15,777.00	TON
0620	02696	SHOULDER RUMBLE STRIPS-SAWED	37,593.00	LF
0630	02702	SAND FOR BLOTTER	127.00	TON
0640	03247	REPAIR BLOWUP	200.00	SQYD
0650	10203ND	PAVEMENT ADJUSTMENT - (FAYETTE COUNTY); (REVISED: 12-6-12)	1.00	LS
0660	23385EC	CONCRETE MEDIAN	1,132.00	SQYD
0670	00001	DGA BASE	16,504.00	TON
0680	00020	TRAFFIC BOUND BASE	28.00	TON
0690	00022	JPC PAVEMENT DRAINAGE BLANKET	10,366.00	TON
0700	00100	ASPHALT SEAL AGGREGATE	167.00	TON
0710	00103	ASPHALT SEAL COAT	20.00	TON
0720	00190	LEVELING & WEDGING PG64-22	2,301.00	TON
0730	00214	CL3 ASPH BASE 1.00D PG64-22	30,679.00	TON
0740	00219	CL4 ASPH BASE 1.00D PG76-22	46.00	TON
0750	00269	MOD OPEN-GRADED DRAINAGE COURSE	11,554.00	TON
0760	00339	CL3 ASPH SURF 0.38D PG64-22	3,500.00	TON
0770	00342	CL4 ASPH SURF 0.38A PG76-22	46.00	TON
0780	00358	ASPHALT CURING SEAL	40.00	TON
0790	02058	REMOVE PCC PAVEMENT	38,513.00	SQYD
0800	02071	JPC PAVEMENT-11 IN	37,574.00	SQYD
0810	02072	JPC PAVEMENT-11 IN SHLD	8,478.00	SQYD
0820	02076	JPC PAVEMENT-7 IN	117,347.00	SQYD
0830	02079	JPC PAVEMENT-7 IN SHLD	37,643.00	SQYD
0840	02091	REMOVE PAVEMENT	8,502.00	SQYD
0850	02200	ROADWAY EXCAVATION	6,768.00	CUYD
0860	02585	EDGE KEY	776.00	LF
0870	02676	MOBILIZATION FOR MILL & TEXT - (FAYETTE COUNTY)	1.00	LS
0880	02677	ASPHALT PAVE MILLING & TEXTURING	15,777.00	TON

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0890	02695	RUMBLE STRIPS TYPE 3	4,177.00	LF
0900	02702	SAND FOR BLOTTER	123.00	TON
0910	03247	REPAIR BLOWUP	200.00	SQYD
0920	10203ND	PAVEMENT ADJUSTMENT - (FAYETTE-CONCRETE); (REVISED: 12-6-12)	1.00	LS
0930	23385EC	CONCRETE MEDIAN	1,132.00	SQYD
0940	02360	GUARDRAIL TERMINAL SECTION NO 1	3.00	EACH
0950	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH
0960	02367	GUARDRAIL END TREATMENT TYPE 1	5.00	EACH
0970	02369	GUARDRAIL END TREATMENT TYPE 2A	5.00	EACH
0980	02381	REMOVE GUARDRAIL	6,055.00	LF
0990	02397	TEMP GUARDRAIL	525.00	LF
1000	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	6,160.00	LF
1010	00078	CRUSHED AGGREGATE SIZE NO 2	37.00	TON
1020	00440	ENTRANCE PIPE-15 IN	206.00	LF
1030	00450	ENTRANCE PIPE-15 IN EQUIV	115.00	LF
1040	00464	CULVERT PIPE-24 IN	8.00	LF
1050	00521	STORM SEWER PIPE-15 IN	836.00	LF
1060	00980	SLOTTED DRAIN PIPE-12 IN	75.00	LF
1070	01001	PERFORATED PIPE-6 IN	42,900.00	LF
1080	01011	NON-PERFORATED PIPE-6 IN	1,109.00	LF
1090	01015	INSPECT & CERTIFY EDGE DRAIN SYSTEM - (FAYETTE COUNTY)	1.00	LS
1100	01021	PERF PIPE HEADWALL TY 1-6 IN	7.00	EACH
1110	01025	PERF PIPE HEADWALL TY 2-6 IN	2.00	EACH
1120	01029	PERF PIPE HEADWALL TY 3-6 IN	28.00	EACH
1130	01432	SLOPED BOX OUTLET TYPE 1-15 IN	1.00	EACH
1140	01490	DROP BOX INLET TYPE 1	1.00	EACH
1150	01559	DROP BOX INLET TYPE 13G	29.00	EACH
1160	01581	DROP BOX INLET TYPE 16G	4.00	EACH
1170	01584	CAP DROP BOX INLET	1.00	EACH
1180	01587	DROP BOX INLET TYPE 16S	1.00	EACH
1190	01641	JUNCTION BOX-15 IN	7.00	EACH
1200	01719	ADJUST INLET	60.00	EACH
1210	01720	RECONSTRUCT INLET	16.00	EACH
1220	01741	CORED HOLE DRAINAGE BOX CON-6 IN	88.00	EACH
1230	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	1,290.00	SQYD
1240	20166ES810	TEMPORARY PIPE	260.00	LF
1250	20366NN	REPLACE GRATE	4.00	EACH
1260	23131ER701	PIPELINE VIDEO INSPECTION	790.00	LF
1270	01810	STANDARD CURB AND GUTTER	271.10	LF
1280	01820	LIP CURB AND GUTTER	43,532.10	LF
1290	01890	ISLAND HEADER CURB TYPE 1	214.50	LF
1300	01904	REMOVE CURB	44,017.70	LF
1310	01810	STANDARD CURB AND GUTTER	271.10	LF
1320	01820	LIP CURB AND GUTTER	43,532.10	LF
1330	01845	ISLAND INTEGRAL CURB	44.50	LF
1340	01890	ISLAND HEADER CURB TYPE 1	170.00	LF
1350	01904	REMOVE CURB	44,017.70	LF
1360	04793	CONDUIT-1 1/4 IN	50.00	LF
1370	04795	CONDUIT-2 IN	20.00	LF

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1380	04820	TRENCHING AND BACKFILLING	60.00	LF
1390	04830	LOOP WIRE	1,500.00	LF
1400	04895	LOOP SAW SLOT AND FILL	308.00	LF
1410	20359NN	GALVANIZED STEEL CABINET	2.00	EACH
1420	20360ES818	WOOD POST	4.00	EACH
1430	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH
1440	02403	REMOVE CONCRETE MASONRY	23.90	CUYD
1450	02555	CONCRETE-CLASS B	34.50	CUYD
1460	02998	MASONRY COATING	200.00	SQYD
1470	08001	STRUCTURE EXCAVATION-COMMON	57.50	CUYD
1480	08104	CONCRETE-CLASS AA	34.60	CUYD
1490	08151	STEEL REINFORCEMENT-EPOXY COATED	5,755.00	LB
1500	06406	SBM ALUM SHEET SIGNS .080 IN	264.00	SQFT
1510	06407	SBM ALUM SHEET SIGNS .125 IN	810.00	SQFT
1520	06411	STEEL POST TYPE 2	1,428.00	LF
1530	02568	MOBILIZATION	1.00	LS
1540	02569	DEMOBILIZATION	1.00	LS
1550	04740	POLE BASE	10.00	EACH
1560	04740	POLE BASE	4.00	EACH
1570	04792	CONDUIT-1 IN - (REVISED: 12-6-12)	85.00	LF
1580	04793	CONDUIT-1 1/4 IN	4,185.00	LF
1590	04795	CONDUIT-2 IN - (REVISED: 12-6-12)	1,040.00	LF
1600	04797	CONDUIT-3 IN	20.00	LF
1610	04811	ELECTRICAL JUNCTION BOX TYPE B	12.00	EACH
1620	04820	TRENCHING AND BACKFILLING - (REVISED: 12-6-12)	3,535.00	LF
1630	04821	OPEN CUT ROADWAY	60.00	LF
1640	04830	LOOP WIRE - (REVISED: 12-6-12)	1,670.00	LF
1650	04844	CABLE-NO. 14/5C	4,625.00	LF
1660	04845	CABLE-NO. 14/7C	965.00	LF
1670	04850	CABLE-NO. 14/1 PAIR - (REVISED: 12-6-12)	5,205.00	LF
1680	04885	MESSENGER-10800 LB - (REVISED: 12-6-12)	530.00	LF
1690	04886	MESSENGER-15400 LB - (REVISED: 12-6-12)	220.00	LF
1700	04895	LOOP SAW SLOT AND FILL - (REVISED: 12-6-12)	575.00	LF
1710	04932	INSTALL STEEL STRAIN POLE	6.00	EACH
1720	04950	REMOVE SIGNAL EQUIPMENT	2.00	EACH
1730	06472	INSTALL SPAN MOUNTED SIGN	1.00	EACH
1740	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	32.00	EACH
1750	20188NS835	INSTALL LED SIGNAL-3 SECTION	9.00	EACH
1760	20391NS835	ELECTRICAL JUNCTION BOX TYPE A - (REVISED: 12-6-12)	11.00	EACH
1770	20408ES835	INSTALL LED BEACON-12 IN	8.00	EACH
1780	20455NS835	VIDEO CAMERA	3.00	EACH
1790	21543EN	BORE AND JACK CONDUIT - (REVISED: 12-6-12)	470.00	LF
1800	21659NN	RELOCATE SIGNAL HEAD	1.00	EACH
1810	22939ND	INSTALL LUMINAIRE POLE	4.00	EACH
1820	23157EN	TRAFFIC SIGNAL POLE BASE - (REVISED: 12-6-12)	30.90	CUYD
1830	23206EC	INSTALL CONTROLLER CABINET	2.00	EACH
1840	24526ED	INSTALL-BEACON CONTROLLER-2 CIRCUIT	1.00	EACH
1850	24555ED	SIGNAL CONTROLLER	1.00	EACH
1860	24568ED	ELECTRONIC SIGN	2.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1870	04740	POLE BASE	4.00	EACH
1880	04792	CONDUIT-1 IN - (REVISED: 12-6-12)	145.00	LF
1890	04793	CONDUIT-1 1/4 IN	4,185.00	LF
1900	04795	CONDUIT-2 IN - (REVISED: 12-6-12)	1,040.00	LF
1910	04797	CONDUIT-3 IN	20.00	LF
1920	04811	ELECTRICAL JUNCTION BOX TYPE B	12.00	EACH
1930	04820	TRENCHING AND BACKFILLING - (REVISED: 12-6-12)	3,535.00	LF
1940	04821	OPEN CUT ROADWAY	60.00	LF
1950	04844	CABLE-NO. 14/5C	4,625.00	LF
1960	04845	CABLE-NO. 14/7C	965.00	LF
1970	04850	CABLE-NO. 14/1 PAIR - (REVISED: 12-6-12)	5,205.00	LF
1980	04885	MESSENGER-10800 LB - (REVISED: 12-6-12)	530.00	LF
1990	04886	MESSENGER-15400 LB - (REVISED: 12-6-12)	220.00	LF
2000	04894	PREFORMED LOOP/LEAD-IN - (REVISED: 12-6-12)	390.00	LF
2010	04932	INSTALL STEEL STRAIN POLE	6.00	EACH
2020	04950	REMOVE SIGNAL EQUIPMENT	2.00	EACH
2030	06472	INSTALL SPAN MOUNTED SIGN	1.00	EACH
2040	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	32.00	EACH
2050	20188NS835	INSTALL LED SIGNAL-3 SECTION	9.00	EACH
2060	20391NS835	ELECTRICAL JUNCTION BOX TYPE A - (REVISED: 12-6-12)	11.00	EACH
2070	20408ES835	INSTALL LED BEACON-12 IN	8.00	EACH
2080	20452ES835	PREFORMED LOOPS	240.00	LF
2090	20453ES835	PREFORMED QUADRAPOLE LOOPS	102.00	LF
2100	20455NS835	VIDEO CAMERA	3.00	EACH
2110	21543EN	BORE AND JACK CONDUIT - (REVISED: 12-6-12)	470.00	LF
2120	21659NN	RELOCATE SIGNAL HEAD	1.00	EACH
2130	22939ND	INSTALL LUMINAIRE POLE	4.00	EACH
2140	23157EN	TRAFFIC SIGNAL POLE BASE - (REVISED: 12-6-12)	30.90	CUYD
2150	23206EC	INSTALL CONTROLLER CABINET	2.00	EACH
2160	24526ED	INSTALL-BEACON CONTROLLER-2 CIRCUIT	1.00	EACH
2170	24555ED	SIGNAL CONTROLLER	1.00	EACH
2180	24568ED	ELECTRONIC SIGN	2.00	EACH
2190	02742	TRAINEE PAYMENT REIMBURSEMENT - 1 CLASS A OPERATOR TRAINEE	1,600.00	HOUR
2200	02742	TRAINEE PAYMENT REIMBURSEMENT - 1 TRUCK DRIVER TRAINEE	1,400.00	HOUR

CONTRACT ID: 121380

121GR12D080-NH

DE12000601280

LEXINGTON-VERSAILLES ROAD (US 60) PAVEMENT REHABILITATION ON US 60 FROM THE BLUEGRASS PARKWAY TO THE FAYETTE COUNTY LINE GRADE & DRAIN AND PAVEMENT ALTERNATES, A DISTANCE OF 2.03 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0010	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	53.00	EACH
0020	02014	BARRICADE-TYPE III	12.00	EACH
0030	02237	DITCHING	12,838.00	LF

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0040	02562	SIGNS	600.00	SQFT
0050	02650	MAINTAIN & CONTROL TRAFFIC - (WOODFORD COUNTY)	1.00	LS
0060	02651	DIVERSIONS (BY-PASS DETOURS) - (WOODFORD COUNTY - #8)	1.00	LS
0070	02651	DIVERSIONS (BY-PASS DETOURS) - (WOODFORD COUNTY - #3)	1.00	LS
0080	02651	DIVERSIONS (BY-PASS DETOURS) - (WOODFORD COUNTY - #2)	1.00	LS
0090	02651	DIVERSIONS (BY-PASS DETOURS) - (WOODFORD COUNTY - #1)	1.00	LS
0100	02671	PORTABLE CHANGEABLE MESSAGE SIGN	5.00	EACH
0110	02690	SAFELOADING	10.40	CUYD
0120	02726	STAKING - (WOODFORD COUNTY)	1.00	LS
0130	02775	ARROW PANEL	2.00	EACH
0140	03225	TUBULAR MARKERS	386.00	EACH
0150	05950	EROSION CONTROL BLANKET	39,305.00	SQYD
0160	05990	SODDING	350.00	SQYD
0170	06417	FLEXIBLE DELINEATOR POST-W	30.00	EACH
0180	06418	FLEXIBLE DELINEATOR POST-Y	45.00	EACH
0190	06510	PAVE STRIPING-TEMP PAINT-4 IN	151,156.00	LF
0200	06513	PAVE STRIPING-TEMP PAINT-12 IN	1,100.00	LF
0210	06514	PAVE STRIPING-PERM PAINT-4 IN	50,064.00	LF
0220	06549	PAVE STRIPING-TEMP REM TAPE-B	3,000.00	LF
0230	06550	PAVE STRIPING-TEMP REM TAPE-W	3,000.00	LF
0240	06551	PAVE STRIPING-TEMP REM TAPE-Y	3,000.00	LF
0250	06565	PAVE MARKING-THERMO X-WALK-6 IN	230.00	LF
0260	06568	PAVE MARKING-THERMO STOP BAR-24IN	261.00	LF
0270	06574	PAVE MARKING-THERMO CURV ARROW	35.00	EACH
0280	06585	PAVEMENT MARKER TY IVA-MW TEMP	1,071.00	EACH
0290	06586	PAVEMENT MARKER TY IVA-MY TEMP	268.00	EACH
0300	06589	PAVEMENT MARKER TYPE V-MW	268.00	EACH
0310	06590	PAVEMENT MARKER TYPE V-MY	466.00	EACH
0320	06591	PAVEMENT MARKER TYPE V-BY	70.00	EACH
0330	06592	PAVEMENT MARKER TYPE V-B W/R	68.00	EACH
0340	06593	PAVEMENT MARKER TYPE V-B Y/R	21.00	EACH
0350	20410ED	MAINTAIN LIGHTING - (WOODFORD COUNTY)	1.00	LS
0360	20411ED	LAW ENFORCEMENT OFFICER	900.00	hour
0370	20467NS112	RELOCATE TUBULAR MARKER	386.00	EACH
0380	22664EN	WATER BLASTING EXISTING STRIPE	76,776.00	LF
0390	23143ED	KPDES PERMIT AND TEMP EROSION CONTROL - (WOODFORD COUNTY)	1.00	LS
0400	23274EN11F	TURF REINFORCEMENT MAT 1	700.00	SQYD
0410	24189ER	DURABLE WATERBORNE MARKING-6 IN W	3,855.00	LF
0420	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	2,110.00	LF
0430	24191ER	DURABLE WATERBORNE MARKING-12 IN W	800.00	LF
0440	00001	DGA BASE	10,657.00	TON
0450	00018	DRAINAGE BLANKET-TYPE II-ASPH	6,793.00	TON
0460	00100	ASPHALT SEAL AGGREGATE	56.00	TON
0470	00103	ASPHALT SEAL COAT	7.00	TON
0480	00190	LEVELING & WEDGING PG64-22	1,355.00	TON
0490	00194	LEVELING & WEDGING PG76-22	168.00	TON

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0500	00214	CL3 ASPH BASE 1.00D PG64-22	19,008.00	TON
0510	00217	CL4 ASPH BASE 1.00D PG64-22	17,603.00	TON
0520	00219	CL4 ASPH BASE 1.00D PG76-22	11,103.00	TON
0530	00339	CL3 ASPH SURF 0.38D PG64-22	1,287.00	TON
0540	00342	CL4 ASPH SURF 0.38A PG76-22	6,040.00	TON
0550	00358	ASPHALT CURING SEAL	27.00	TON
0560	02058	REMOVE PCC PAVEMENT	22,529.00	SQYD
0570	02091	REMOVE PAVEMENT	4,074.00	SQYD
0580	02107	BREAKING AND SEATING PAVEMENT	23,513.00	SQYD
0590	02200	ROADWAY EXCAVATION	8,752.00	CUYD
0600	02585	EDGE KEY	586.00	LF
0610	02676	MOBILIZATION FOR MILL & TEXT - (WOODFORD COUNTY)	1.00	LS
0620	02677	ASPHALT PAVE MILLING & TEXTURING	9,708.00	TON
0630	02696	SHOULDER RUMBLE STRIPS-SAWED	19,138.00	LF
0640	02702	SAND FOR BLOTTER	86.00	TON
0650	03247	REPAIR BLOWUP	200.00	SQYD
0660	10203ND	PAVEMENT ADJUSTMENT - (WOODFORD COUNTY - ASPHALT)	1.00	LS
0670	23385EC	CONCRETE MEDIAN	709.00	SQYD
0680	00001	DGA BASE	9,947.00	TON
0690	00022	JPC PAVEMENT DRAINAGE BLANKET	6,973.00	TON
0700	00100	ASPHALT SEAL AGGREGATE	56.00	TON
0710	00103	ASPHALT SEAL COAT	7.00	TON
0720	00190	LEVELING & WEDGING PG64-22	1,082.00	TON
0730	00194	LEVELING & WEDGING PG76-22	168.00	TON
0740	00214	CL3 ASPH BASE 1.00D PG64-22	9,766.00	TON
0750	00217	CL4 ASPH BASE 1.00D PG64-22	1,027.00	TON
0760	00219	CL4 ASPH BASE 1.00D PG76-22	485.00	TON
0770	00269	MOD OPEN-GRADED DRAINAGE COURSE	2,592.00	TON
0780	00339	CL3 ASPH SURF 0.38D PG64-22	902.00	TON
0790	00342	CL4 ASPH SURF 0.38A PG76-22	2,742.00	TON
0800	00358	ASPHALT CURING SEAL	27.00	TON
0810	02058	REMOVE PCC PAVEMENT	22,529.00	SQYD
0820	02071	JPC PAVEMENT-11 IN	22,529.00	SQYD
0830	02072	JPC PAVEMENT-11 IN SHLD	6,212.00	SQYD
0840	02076	JPC PAVEMENT-7 IN	25,522.00	SQYD
0850	02079	JPC PAVEMENT-7 IN SHLD	9,044.00	SQYD
0860	02091	REMOVE PAVEMENT	4,074.00	SQYD
0870	02200	ROADWAY EXCAVATION	3,975.00	CUYD
0880	02585	EDGE KEY	586.00	LF
0890	02676	MOBILIZATION FOR MILL & TEXT - (WOODFORD COUNTY)	1.00	LS
0900	02677	ASPHALT PAVE MILLING & TEXTURING	9,708.00	TON
0910	02695	RUMBLE STRIPS TYPE 3	1,393.00	LF
0920	02696	SHOULDER RUMBLE STRIPS-SAWED	8,630.00	LF
0930	02702	SAND FOR BLOTTER	83.00	TON
0940	03247	REPAIR BLOWUP	200.00	SQYD
0950	10203ND	PAVEMENT ADJUSTMENT - (WOODFORD COUNTY - CONCRETE)	1.00	LS
0960	23385EC	CONCRETE MEDIAN	709.00	SQYD

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0970	02360	GUARDRAIL TERMINAL SECTION NO 1	4.00	EACH
0980	02367	GUARDRAIL END TREATMENT TYPE 1	2.00	EACH
0990	02369	GUARDRAIL END TREATMENT TYPE 2A	2.00	EACH
1000	02381	REMOVE GUARDRAIL	2,610.00	LF
1010	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	2,625.00	LF
1020	00078	CRUSHED AGGREGATE SIZE NO 2	16.00	TON
1030	00440	ENTRANCE PIPE-15 IN	106.00	LF
1040	00462	CULVERT PIPE-18 IN	84.00	LF
1050	00466	CULVERT PIPE-30 IN	15.00	LF
1060	00521	STORM SEWER PIPE-15 IN	51.00	LF
1070	01001	PERFORATED PIPE-6 IN	15,252.00	LF
1080	01011	NON-PERFORATED PIPE-6 IN	303.00	LF
1090	01015	INSPECT & CERTIFY EDGE DRAIN SYSTEM - (WOODFORD COUNTY)	1.00	LS
1100	01021	PERF PIPE HEADWALL TY 1-6 IN	1.00	EACH
1110	01025	PERF PIPE HEADWALL TY 2-6 IN	1.00	EACH
1120	01029	PERF PIPE HEADWALL TY 3-6 IN	14.00	EACH
1130	01432	SLOPED BOX OUTLET TYPE 1-15 IN	1.00	EACH
1140	01452	S & F BOX INLET-OUTLET-30 IN	1.00	EACH
1150	01493	DROP BOX INLET TYPE 2	1.00	EACH
1160	01559	DROP BOX INLET TYPE 13G	12.00	EACH
1170	01568	DROP BOX INLET TYPE 13S	2.00	EACH
1180	01719	ADJUST INLET	10.00	EACH
1190	01720	RECONSTRUCT INLET	2.00	EACH
1200	01741	CORED HOLE DRAINAGE BOX CON-6 IN	17.00	EACH
1210	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	83.00	SQYD
1220	20166ES810	TEMPORARY PIPE	143.00	LF
1230	20366NN	REPLACE GRATE	1.00	EACH
1240	23131ER701	PIPELINE VIDEO INSPECTION	51.00	LF
1250	01820	LIP CURB AND GUTTER	12,675.40	LF
1260	01875	STANDARD HEADER CURB	133.00	LF
1270	01904	REMOVE CURB	12,675.40	LF
1280	01945	MOUNTABLE MEDIAN TYPE 1A	62.10	SQYD
1290	01946	MOUNTABLE MEDIAN TYPE 2A	6.40	SQYD
1300	23839EC	REMOVE CONCRETE MEDIAN	68.50	SQYD
1310	01820	LIP CURB AND GUTTER	12,675.40	LF
1320	01875	STANDARD HEADER CURB	133.00	LF
1330	01904	REMOVE CURB	12,675.40	LF
1340	01946	MOUNTABLE MEDIAN TYPE 2A	68.50	SQYD
1350	23839EC	REMOVE CONCRETE MEDIAN	68.50	SQYD
1360	04793	CONDUIT-1 1/4 IN	70.00	LF
1370	04795	CONDUIT-2 IN	50.00	LF
1380	04820	TRENCHING AND BACKFILLING	110.00	LF
1390	04829	PIEZOELECTRIC SENSOR	4.00	EACH
1400	04830	LOOP WIRE	1,900.00	LF
1410	04895	LOOP SAW SLOT AND FILL	365.00	LF
1420	20359NN	GALVANIZED STEEL CABINET	2.00	EACH
1430	20360ES818	WOOD POST	4.00	EACH
1440	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH
1450	06406	SBM ALUM SHEET SIGNS .080 IN	269.00	SQFT

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1460	06407	SBM ALUM SHEET SIGNS .125 IN	361.00	SQFT
1470	06411	STEEL POST TYPE 2	770.00	LF
1480	02568	MOBILIZATION	1.00	LS
1490	02569	DEMOBILIZATION	1.00	LS
1500	04701	POLE 40 FT MTG HT	10.00	EACH
1510	04714	POLE 120 FT MTG HT HIGH MAST	6.00	EACH
1520	04740	POLE BASE	10.00	EACH
1530	04750	TRANSFORMER BASE	10.00	EACH
1540	04760	POLE W/SECONDARY CONTROL EQUIP	2.00	EACH
1550	04761	LIGHTING CONTROL EQUIPMENT	1.00	EACH
1560	04770	HPS LUMINAIRE	10.00	EACH
1570	04773	HPS LUMINAIRE HIGH MAST	32.00	EACH
1580	04780	FUSED CONNECTOR KIT	20.00	EACH
1590	04793	CONDUIT-1 1/4 IN	1,130.00	LF
1600	04795	CONDUIT-2 IN	190.00	LF
1610	04797	CONDUIT-3 IN	595.00	LF
1620	04800	MARKER	17.00	EACH
1630	04820	TRENCHING AND BACKFILLING	5,360.00	LF
1640	04860	CABLE-NO. 8/3C DUCTED	740.00	LF
1650	04861	CABLE-NO. 6/3C DUCTED	5,315.00	LF
1660	04940	REMOVE LIGHTING	1.00	LS
1670	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	13.00	EACH
1680	21543EN	BORE AND JACK CONDUIT	785.00	LF
1690	23161EN	POLE BASE-HIGH MAST	56.00	CUYD
1700	23675EC	WIRE-NO. 12-INSTALL	1,440.00	LF
1710	24474ED	WIRE-NO.8-INSTALL	3,660.00	LF
1720	04740	POLE BASE	2.00	EACH
1730	04792	CONDUIT-1 IN - (REVISED: 12-6-12)	80.00	LF
1740	04793	CONDUIT-1 1/4 IN	2,100.00	LF
1750	04795	CONDUIT-2 IN	80.00	LF
1760	04811	ELECTRICAL JUNCTION BOX TYPE B	16.00	EACH
1770	04820	TRENCHING AND BACKFILLING - (REVISED: 12-6-12)	2,260.00	LF
1780	04821	OPEN CUT ROADWAY	35.00	LF
1790	04830	LOOP WIRE	3,115.00	LF
1800	04844	CABLE-NO. 14/5C - (REVISED: 12-6-12)	6,700.00	LF
1810	04850	CABLE-NO. 14/1 PAIR	1,535.00	LF
1820	04885	MESSENGER-10800 LB - (REVISED: 12-6-12)	552.00	LF
1830	04886	MESSENGER-15400 LB	1,060.00	LF
1840	04895	LOOP SAW SLOT AND FILL - (REVISED: 12-6-12)	1,225.00	LF
1850	04931	INSTALL CONTROLLER TYPE 170	2.00	EACH
1860	04932	INSTALL STEEL STRAIN POLE	12.00	EACH
1870	04950	REMOVE SIGNAL EQUIPMENT	2.00	EACH
1880	20093NS835	INSTALL PEDESTRIAN HEAD-LED	2.00	EACH
1890	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	24.00	EACH
1900	20188NS835	INSTALL LED SIGNAL-3 SECTION	12.00	EACH
1910	20266ES835	INSTALL LED SIGNAL- 4 SECTION	8.00	EACH
1920	20408ES835	INSTALL LED BEACON-12 IN	8.00	EACH
1930	21743NN	INSTALL PEDESTRIAN DETECTOR	2.00	EACH
1940	22939ND	INSTALL LUMINAIRE POLE	2.00	EACH
1950	23068NN	REMOVE & REINSTALL COORDINATING UNIT	2.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1960	23157EN	TRAFFIC SIGNAL POLE BASE - (REVISED: 12-6-12)	59.10	CUYD
1970	23235EC	INSTALL PEDESTAL POST	2.00	EACH
1980	24525EC	ADVANCE WARNING FLASHER	2.00	EACH
1990	04740	POLE BASE	2.00	EACH
2000	04792	CONDUIT-1 IN - (REVISED: 12-6-12)	90.00	LF
2010	04793	CONDUIT-1 1/4 IN	2,100.00	LF
2020	04795	CONDUIT-2 IN	80.00	LF
2030	04811	ELECTRICAL JUNCTION BOX TYPE B	16.00	EACH
2040	04820	TRENCHING AND BACKFILLING - (REVISED: 12-6-12)	2,260.00	LF
2050	04821	OPEN CUT ROADWAY	35.00	LF
2060	04844	CABLE-NO. 14/5C - (REVISED: 12-6-12)	6,700.00	LF
2070	04850	CABLE-NO. 14/1 PAIR	1,535.00	LF
2080	04885	MESSENGER-10800 LB - (REVISED: 12-6-12)	552.00	LF
2090	04886	MESSENGER-15400 LB	1,060.00	LF
2100	04894	PREFORMED LOOP/LEAD-IN - (REVISED: 12-6-12)	325.00	LF
2110	04931	INSTALL CONTROLLER TYPE 170	2.00	EACH
2120	04932	INSTALL STEEL STRAIN POLE	12.00	EACH
2130	04950	REMOVE SIGNAL EQUIPMENT	2.00	EACH
2140	20093NS835	INSTALL PEDESTRIAN HEAD-LED	2.00	EACH
2150	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	24.00	EACH
2160	20188NS835	INSTALL LED SIGNAL-3 SECTION	12.00	EACH
2170	20266ES835	INSTALL LED SIGNAL- 4 SECTION	8.00	EACH
2180	20408ES835	INSTALL LED BEACON-12 IN	8.00	EACH
2190	20453ES835	PREFORMED QUADRAPOLE LOOPS	918.00	LF
2200	21743NN	INSTALL PEDESTRIAN DETECTOR	2.00	EACH
2210	22939ND	INSTALL LUMINAIRE POLE	2.00	EACH
2220	23068NN	REMOVE & REINSTALL COORDINATING UNIT	2.00	EACH
2230	23157EN	TRAFFIC SIGNAL POLE BASE - (REVISED: 12-6-12)	59.10	CUYD
2240	23235EC	INSTALL PEDESTAL POST	2.00	EACH
2250	24525EC	ADVANCE WARNING FLASHER	2.00	EACH

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Section: 0001 - PAVING (ASPHALT ALTERNATE)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00001		DGA BASE	28,052.00	TON		\$	
0020	00018		DRAINAGE BLANKET-TYPE II-ASPH	16,876.00	TON		\$	
0030	00020		TRAFFIC BOUND BASE	128.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	223.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	27.00	TON		\$	
0060	00190		LEVELING & WEDGING PG64-22	4,219.00	TON		\$	
0070	00194		LEVELING & WEDGING PG76-22	168.00	TON		\$	
0080	00214		CL3 ASPH BASE 1.00D PG64-22	77,142.00	TON		\$	
0090	00217		CL4 ASPH BASE 1.00D PG64-22	63,824.00	TON		\$	
0100	00219		CL4 ASPH BASE 1.00D PG76-22	47,379.00	TON		\$	
0110	00339		CL3 ASPH SURF 0.38D PG64-22	5,492.00	TON		\$	
0120	00342		CL4 ASPH SURF 0.38A PG76-22	16,729.00	TON		\$	
0130	00358		ASPHALT CURING SEAL	75.00	TON		\$	
0140	02058		REMOVE PCC PAVEMENT	61,042.00	SQYD		\$	
0150	02091		REMOVE PAVEMENT	12,576.00	SQYD		\$	
0160	02107		BREAKING AND SEATING PAVEMENT	136,217.00	SQYD		\$	
0170	02200		ROADWAY EXCAVATION	23,742.00	CUYD		\$	
0180	02585		EDGE KEY	1,362.00	LF		\$	
0190	02676		MOBILIZATION FOR MILL & TEXT(FAYETTE COUNTY)	1.00	LS		\$	
0200	02676		MOBILIZATION FOR MILL & TEXT (WOODFORD COUNTY)	1.00	LS		\$	
0210	02677		ASPHALT PAVE MILLING & TEXTURING	25,485.00	TON		\$	
0220	02696		SHOULDER RUMBLE STRIPS-SAWED	56,731.00	LF		\$	
0230	02702		SAND FOR BLOTTER	213.00	TON		\$	
0240	03247		REPAIR BLOWUP	400.00	SQYD		\$	
0250	10203ND		PAVEMENT ADJUSTMENT(FAYETTE COUNTY); (REVISED: 12-6-12)	1.00	LS	375,534.00	\$	\$1,375,534.00
0260	10203ND		PAVEMENT ADJUSTMENT(WOODFORD COUNTY - ASPHALT)	1.00	LS	639,541.00	\$	\$639,541.00
0270	23385EC		CONCRETE MEDIAN	1,841.00	SQYD		\$	

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Section: 0002 - PAVING (CONCRETE ALTERNATE)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0640	00001		DGA BASE	26,451.00	TON		\$	
0650	00020		TRAFFIC BOUND BASE	28.00	TON		\$	
0660	00022		JPC PAVEMENT DRAINAGE BLANKET	17,339.00	TON		\$	
0670	00100		ASPHALT SEAL AGGREGATE	223.00	TON		\$	
0680	00103		ASPHALT SEAL COAT	27.00	TON		\$	
0690	00190		LEVELING & WEDGING PG64-22	3,383.00	TON		\$	
0700	00194		LEVELING & WEDGING PG76-22	168.00	TON		\$	
0710	00214		CL3 ASPH BASE 1.00D PG64-22	40,445.00	TON		\$	
0720	00217		CL4 ASPH BASE 1.00D PG64-22	1,027.00	TON		\$	
0730	00219		CL4 ASPH BASE 1.00D PG76-22	531.00	TON		\$	
0740	00269		MOD OPEN-GRADED DRAINAGE COURSE	14,146.00	TON		\$	
0750	00339		CL3 ASPH SURF 0.38D PG64-22	4,402.00	TON		\$	
0760	00342		CL4 ASPH SURF 0.38A PG76-22	2,788.00	TON		\$	
0770	00358		ASPHALT CURING SEAL	67.00	TON		\$	
0780	02058		REMOVE PCC PAVEMENT	61,042.00	SQYD		\$	
0790	02071		JPC PAVEMENT-11 IN	60,103.00	SQYD		\$	
0800	02072		JPC PAVEMENT-11 IN SHLD	14,690.00	SQYD		\$	
0810	02076		JPC PAVEMENT-7 IN	142,869.00	SQYD		\$	
0820	02079		JPC PAVEMENT-7 IN SHLD	46,687.00	SQYD		\$	
0830	02091		REMOVE PAVEMENT	12,576.00	SQYD		\$	
0840	02200		ROADWAY EXCAVATION	10,743.00	CUYD		\$	
0850	02585		EDGE KEY	1,362.00	LF		\$	
0860	02676		MOBILIZATION FOR MILL & TEXT(FAYETTE COUNTY)	1.00	LS		\$	
0870	02676		MOBILIZATION FOR MILL & TEXT (WOODFORD COUNTY)	1.00	LS		\$	
0880	02677		ASPHALT PAVE MILLING & TEXTURING	25,485.00	TON		\$	
0890	02695		RUMBLE STRIPS TYPE 3	5,570.00	LF		\$	
0900	02696		SHOULDER RUMBLE STRIPS-SAWED	8,630.00	LF		\$	
0910	02702		SAND FOR BLOTTER	206.00	TON		\$	
0920	03247		REPAIR BLOWUP	400.00	SQYD		\$	
0930	10203ND		PAVEMENT ADJUSTMENT(FAYETTE-CONCRETE); (REVISED: 12-6-12)	1.00	LS	558,358.00	\$	\$558,358.00
0940	10203ND		PAVEMENT ADJUSTMENT(WOODFORD COUNTY - CONCRETE)	1.00	LS	259,603.00	\$	\$259,603.00
0950	23385EC		CONCRETE MEDIAN	1,841.00	SQYD		\$	

Section: 0003 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0960	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	180.00	EACH		\$	
0970	01984		DELINEATOR FOR BARRIER - WHITE	10.00	EACH		\$	
0980	02014		BARRICADE-TYPE III	40.00	EACH		\$	
0990	02223		GRANULAR EMBANKMENT	156.00	CUYD		\$	
1000	02237		DITCHING	45,474.00	LF		\$	
1010	02469		CLEAN SINKHOLE	3.00	EACH		\$	
1020	02562		SIGNS	2,000.00	SQFT		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1030	02599		FABRIC-GEOTEXTILE TYPE IV	270.00	SQYD		\$	
1040	02650		MAINTAIN & CONTROL TRAFFIC(FAYETTE COUNTY)	1.00	LS		\$	
1050	02650		MAINTAIN & CONTROL TRAFFIC (WOODFORD COUNTY)	1.00	LS		\$	
1060	02651		DIVERSIONS (BY-PASS DETOURS)(FAYETTE COUNTY - #7)	1.00	LS		\$	
1070	02651		DIVERSIONS (BY-PASS DETOURS)(FAYETTE COUNTY - #6)	1.00	LS		\$	
1080	02651		DIVERSIONS (BY-PASS DETOURS)(FAYETTE COUNTY - #5)	1.00	LS		\$	
1090	02651		DIVERSIONS (BY-PASS DETOURS)(FAYETTE COUNTY - #4)	1.00	LS		\$	
1100	02651		DIVERSIONS (BY-PASS DETOURS) (WOODFORD COUNTY - #8)	1.00	LS		\$	
1110	02651		DIVERSIONS (BY-PASS DETOURS) (WOODFORD COUNTY - #3)	1.00	LS		\$	
1120	02651		DIVERSIONS (BY-PASS DETOURS) (WOODFORD COUNTY - #2)	1.00	LS		\$	
1130	02651		DIVERSIONS (BY-PASS DETOURS) (WOODFORD COUNTY - #1)	1.00	LS		\$	
1140	02671		PORTABLE CHANGEABLE MESSAGE SIGN	12.00	EACH		\$	
1150	02690		SAFELOADING	37.50	CUYD		\$	
1160	02720		SIDEWALK-4 IN CONCRETE	37.00	SQYD		\$	
1170	02726		STAKING(FAYETTE COUNTY)	1.00	LS		\$	
1180	02726		STAKING(WOODFORD COUNTY)	1.00	LS		\$	
1190	02775		ARROW PANEL	4.00	EACH		\$	
1200	03225		TUBULAR MARKERS	1,442.00	EACH		\$	
1210	05950		EROSION CONTROL BLANKET	121,009.00	SQYD		\$	
1220	05990		SODDING	1,662.00	SQYD		\$	
1230	06417		FLEXIBLE DELINEATOR POST-W	30.00	EACH		\$	
1240	06418		FLEXIBLE DELINEATOR POST-Y	45.00	EACH		\$	
1250	06510		PAVE STRIPING-TEMP PAINT-4 IN	494,026.00	LF		\$	
1260	06513		PAVE STRIPING-TEMP PAINT-12 IN	1,100.00	LF		\$	
1270	06514		PAVE STRIPING-PERM PAINT-4 IN	163,671.00	LF		\$	
1280	06549		PAVE STRIPING-TEMP REM TAPE-B	10,000.00	LF		\$	
1290	06550		PAVE STRIPING-TEMP REM TAPE-W	10,000.00	LF		\$	
1300	06551		PAVE STRIPING-TEMP REM TAPE-Y	10,000.00	LF		\$	
1310	06565		PAVE MARKING-THERMO X-WALK-6 IN	770.00	LF		\$	
1320	06568		PAVE MARKING-THERMO STOP BAR-24IN	548.00	LF		\$	
1330	06572		PAVE MARKING-DOTTED LANE EXTEN	640.00	LF		\$	
1340	06574		PAVE MARKING-THERMO CURV ARROW	118.00	EACH		\$	
1350	06578		PAVE MARKING-THERMO MERGE ARROW	5.00	EACH		\$	
1360	06585		PAVEMENT MARKER TY IVA-MW TEMP	3,376.00	EACH		\$	
1370	06586		PAVEMENT MARKER TY IVA-MY TEMP	845.00	EACH		\$	
1380	06589		PAVEMENT MARKER TYPE V-MW	845.00	EACH		\$	
1390	06590		PAVEMENT MARKER TYPE V-MY	1,432.00	EACH		\$	
1400	06591		PAVEMENT MARKER TYPE V-BY	257.00	EACH		\$	
1410	06592		PAVEMENT MARKER TYPE V-B W/R	68.00	EACH		\$	
1420	06593		PAVEMENT MARKER TYPE V-B Y/R	21.00	EACH		\$	
1430	20410ED		MAINTAIN LIGHTING(WOODFORD COUNTY)	1.00	LS		\$	
1440	20411ED		LAW ENFORCEMENT OFFICER	3,000.00	HOUR		\$	
1450	20418ED		REMOVE & RELOCATE SIGNS	1.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1460	20467NS112		RELOCATE TUBULAR MARKER	1,442.00	EACH		\$	
1470	22664EN		WATER BLASTING EXISTING STRIPE	289,590.00	LF		\$	
1480	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL(FAYETTE COUNTY)	1.00	LS		\$	
1490	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL(WOODFORD COUNTY)	1.00	LS		\$	
1500	23274EN11F		TURF REINFORCEMENT MAT 1	2,233.00	SQYD		\$	
1510	24189ER		DURABLE WATERBORNE MARKING-6 IN W	3,855.00	LF		\$	
1520	24190ER		DURABLE WATERBORNE MARKING-6 IN Y	2,110.00	LF		\$	
1530	24191ER		DURABLE WATERBORNE MARKING-12 IN W	800.00	LF		\$	

Section: 0004 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1540	00078		CRUSHED AGGREGATE SIZE NO 2	53.00	TON		\$	
1550	00440		ENTRANCE PIPE-15 IN	312.00	LF		\$	
1560	00450		ENTRANCE PIPE-15 IN EQUIV	115.00	LF		\$	
1570	00462		CULVERT PIPE-18 IN	84.00	LF		\$	
1580	00464		CULVERT PIPE-24 IN	8.00	LF		\$	
1590	00466		CULVERT PIPE-30 IN	15.00	LF		\$	
1600	00521		STORM SEWER PIPE-15 IN	887.00	LF		\$	
1610	00980		SLOTTED DRAIN PIPE-12 IN	75.00	LF		\$	
1620	01001		PERFORATED PIPE-6 IN	58,152.00	LF		\$	
1630	01011		NON-PERFORATED PIPE-6 IN	1,412.00	LF		\$	
1640	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM (FAYETTE COUNTY)	1.00	LS		\$	
1650	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM (WOODFORD COUNTY)	1.00	LS		\$	
1660	01021		PERF PIPE HEADWALL TY 1-6 IN	8.00	EACH		\$	
1670	01025		PERF PIPE HEADWALL TY 2-6 IN	3.00	EACH		\$	
1680	01029		PERF PIPE HEADWALL TY 3-6 IN	42.00	EACH		\$	
1690	01432		SLOPED BOX OUTLET TYPE 1-15 IN	2.00	EACH		\$	
1700	01452		S & F BOX INLET-OUTLET-30 IN	1.00	EACH		\$	
1710	01490		DROP BOX INLET TYPE 1	1.00	EACH		\$	
1720	01493		DROP BOX INLET TYPE 2	1.00	EACH		\$	
1730	01559		DROP BOX INLET TYPE 13G	41.00	EACH		\$	
1740	01568		DROP BOX INLET TYPE 13S	2.00	EACH		\$	
1750	01581		DROP BOX INLET TYPE 16G	4.00	EACH		\$	
1760	01584		CAP DROP BOX INLET	1.00	EACH		\$	
1770	01587		DROP BOX INLET TYPE 16S	1.00	EACH		\$	
1780	01641		JUNCTION BOX-15 IN	7.00	EACH		\$	
1790	01719		ADJUST INLET	70.00	EACH		\$	
1800	01720		RECONSTRUCT INLET	18.00	EACH		\$	
1810	01741		CORED HOLE DRAINAGE BOX CON-6 IN	105.00	EACH		\$	
1820	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	1,373.00	SQYD	\$2.00	\$	\$2,746.00
1830	20166ES810		TEMPORARY PIPE	403.00	LF		\$	
1840	20366NN		REPLACE GRATE	5.00	EACH		\$	
1850	23131ER701		PIPELINE VIDEO INSPECTION	841.00	LF		\$	

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Section: 0005 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1860	02403		REMOVE CONCRETE MASONRY	23.90	CUYD		\$	
1870	02555		CONCRETE-CLASS B	34.50	CUYD		\$	
1880	02998		MASONRY COATING	200.00	SQYD		\$	
1890	08001		STRUCTURE EXCAVATION-COMMON	57.50	CUYD		\$	
1900	08104		CONCRETE-CLASS AA	34.60	CUYD		\$	
1910	08151		STEEL REINFORCEMENT-EPOXY COATED	5,755.00	LB		\$	

Section: 0006 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1920	06406		SBM ALUM SHEET SIGNS .080 IN	533.00	SQFT		\$	
1930	06407		SBM ALUM SHEET SIGNS .125 IN	1,171.00	SQFT		\$	
1940	06411		STEEL POST TYPE 2	2,198.00	LF		\$	

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Section: 0007 - SIGNALIZATION (ASPHALT ALTERNATE)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1950	04740		POLE BASE	6.00	EACH		\$	
1960	04792		CONDUIT-1 IN(REVISED: 12-6-12)	165.00	LF		\$	
1970	04793		CONDUIT-1 1/4 IN	6,285.00	LF		\$	
1980	04795		CONDUIT-2 IN(REVISED: 12-6-12)	1,120.00	LF		\$	
1990	04797		CONDUIT-3 IN	20.00	LF		\$	
2000	04811		ELECTRICAL JUNCTION BOX TYPE B	28.00	EACH		\$	
2010	04820		TRENCHING AND BACKFILLING(REVISED: 12-6-12)	5,795.00	LF		\$	
2020	04821		OPEN CUT ROADWAY	95.00	LF		\$	
2030	04830		LOOP WIRE(REVISED: 12-6-12)	4,785.00	LF		\$	
2040	04844		CABLE-NO. 14/5C(REVISED: 12-6-12)	11,325.00	LF		\$	
2050	04845		CABLE-NO. 14/7C	965.00	LF		\$	
2060	04850		CABLE-NO. 14/1 PAIR(REVISED: 12-6-12)	6,740.00	LF		\$	
2070	04885		MESSENGER-10800 LB(REVISED: 12-6-12)	1,082.00	LF		\$	
2080	04886		MESSENGER-15400 LB(REVISED: 12-6-12)	1,280.00	LF		\$	
2090	04895		LOOP SAW SLOT AND FILL(REVISED: 12-6-12)	1,800.00	LF		\$	
2100	04931		INSTALL CONTROLLER TYPE 170	2.00	EACH		\$	
2110	04932		INSTALL STEEL STRAIN POLE	18.00	EACH		\$	
2120	04950		REMOVE SIGNAL EQUIPMENT	4.00	EACH		\$	
2130	06472		INSTALL SPAN MOUNTED SIGN	1.00	EACH		\$	
2140	20093NS835		INSTALL PEDESTRIAN HEAD-LED	2.00	EACH		\$	
2150	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	56.00	EACH		\$	
2160	20188NS835		INSTALL LED SIGNAL-3 SECTION	21.00	EACH		\$	
2170	20266ES835		INSTALL LED SIGNAL- 4 SECTION	8.00	EACH		\$	
2180	20391NS835		ELECTRICAL JUNCTION BOX TYPE A (REVISED: 12-6-12)	11.00	EACH		\$	
2190	20408ES835		INSTALL LED BEACON-12 IN	16.00	EACH		\$	
2200	20455NS835		VIDEO CAMERA	3.00	EACH		\$	
2210	21543EN		BORE AND JACK CONDUIT(REVISED: 12-6-12)	470.00	LF		\$	
2220	21659NN		RELOCATE SIGNAL HEAD	1.00	EACH		\$	
2230	21743NN		INSTALL PEDESTRIAN DETECTOR	2.00	EACH		\$	
2240	22939ND		INSTALL LUMINAIRE POLE	6.00	EACH		\$	
2250	23068NN		REMOVE & REINSTALL COORDINATING UNIT	2.00	EACH		\$	
2260	23157EN		TRAFFIC SIGNAL POLE BASE(REVISED: 12-6-12)	90.00	CUYD		\$	
2270	23206EC		INSTALL CONTROLLER CABINET	2.00	EACH		\$	
2280	23235EC		INSTALL PEDESTAL POST	2.00	EACH		\$	
2290	24525EC		ADVANCE WARNING FLASHER	2.00	EACH		\$	
2300	24526ED		INSTALL-BEACON CONTROLLER-2 CIRCUIT	1.00	EACH		\$	
2310	24555ED		SIGNAL CONTROLLER	1.00	EACH		\$	
2320	24568ED		ELECTRONIC SIGN	2.00	EACH		\$	

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Section: 0008 - SIGNALIZATION (CONCRETE ALTERNATE)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2330	04740		POLE BASE	6.00	EACH		\$	
2340	04792		CONDUIT-1 IN(REVISED: 12-6-12)	235.00	LF		\$	
2350	04793		CONDUIT-1 1/4 IN	6,285.00	LF		\$	
2360	04795		CONDUIT-2 IN(REVISED: 12-6-12)	1,120.00	LF		\$	
2370	04797		CONDUIT-3 IN	20.00	LF		\$	
2380	04811		ELECTRICAL JUNCTION BOX TYPE B	28.00	EACH		\$	
2390	04820		TRENCHING AND BACKFILLING(REVISED: 12-6-12)	5,795.00	LF		\$	
2400	04821		OPEN CUT ROADWAY	95.00	LF		\$	
2410	04844		CABLE-NO. 14/5C(REVISED: 12-6-12)	11,325.00	LF		\$	
2420	04845		CABLE-NO. 14/7C	965.00	LF		\$	
2430	04850		CABLE-NO. 14/1 PAIR(REVISED: 12-6-12)	6,740.00	LF		\$	
2440	04885		MESSENGER-10800 LB(REVISED: 12-6-12)	1,082.00	LF		\$	
2450	04886		MESSENGER-15400 LB(REVISED: 12-6-12)	1,280.00	LF		\$	
2460	04894		PREFORMED LOOP/LEAD-IN(REVISED: 12-6-12)	715.00	LF		\$	
2470	04931		INSTALL CONTROLLER TYPE 170	2.00	EACH		\$	
2480	04932		INSTALL STEEL STRAIN POLE	18.00	EACH		\$	
2490	04950		REMOVE SIGNAL EQUIPMENT	4.00	EACH		\$	
2500	06472		INSTALL SPAN MOUNTED SIGN	1.00	EACH		\$	
2510	20093NS835		INSTALL PEDESTRIAN HEAD-LED	2.00	EACH		\$	
2520	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	56.00	EACH		\$	
2530	20188NS835		INSTALL LED SIGNAL-3 SECTION	21.00	EACH		\$	
2540	20266ES835		INSTALL LED SIGNAL- 4 SECTION	8.00	EACH		\$	
2550	20391NS835		ELECTRICAL JUNCTION BOX TYPE A (REVISED: 12-6-12)	11.00	EACH		\$	
2560	20408ES835		INSTALL LED BEACON-12 IN	16.00	EACH		\$	
2570	20452ES835		PREFORMED LOOPS	240.00	LF		\$	
2580	20453ES835		PREFORMED QUADRAPOLE LOOPS	1,020.00	LF		\$	
2590	20455NS835		VIDEO CAMERA	3.00	EACH		\$	
2600	21543EN		BORE AND JACK CONDUIT(REVISED: 12-6-12)	470.00	LF		\$	
2610	21659NN		RELOCATE SIGNAL HEAD	1.00	EACH		\$	
2620	21743NN		INSTALL PEDESTRIAN DETECTOR	2.00	EACH		\$	
2630	22939ND		INSTALL LUMINAIRE POLE	6.00	EACH		\$	
2640	23068NN		REMOVE & REINSTALL COORDINATING UNIT	2.00	EACH		\$	
2650	23157EN		TRAFFIC SIGNAL POLE BASE(REVISED: 12-6-12)	90.00	CUYD		\$	
2660	23206EC		INSTALL CONTROLLER CABINET	2.00	EACH		\$	
2670	23235EC		INSTALL PEDESTAL POST	2.00	EACH		\$	
2680	24525EC		ADVANCE WARNING FLASHER	2.00	EACH		\$	
2690	24526ED		INSTALL-BEACON CONTROLLER-2 CIRCUIT	1.00	EACH		\$	
2700	24555ED		SIGNAL CONTROLLER	1.00	EACH		\$	
2710	24568ED		ELECTRONIC SIGN	2.00	EACH		\$	

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Section: 0009 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2720	04701		POLE 40 FT MTG HT	10.00	EACH		\$	
2730	04714		POLE 120 FT MTG HT HIGH MAST	6.00	EACH		\$	
2740	04740		POLE BASE	20.00	EACH		\$	
2750	04750		TRANSFORMER BASE	10.00	EACH		\$	
2760	04760		POLE W/SECONDARY CONTROL EQUIP	2.00	EACH		\$	
2770	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$	
2780	04770		HPS LUMINAIRE	10.00	EACH		\$	
2790	04773		HPS LUMINAIRE HIGH MAST	32.00	EACH		\$	
2800	04780		FUSED CONNECTOR KIT	20.00	EACH		\$	
2810	04793		CONDUIT-1 1/4 IN	1,130.00	LF		\$	
2820	04795		CONDUIT-2 IN	190.00	LF		\$	
2830	04797		CONDUIT-3 IN	595.00	LF		\$	
2840	04800		MARKER	17.00	EACH		\$	
2850	04820		TRENCHING AND BACKFILLING	5,360.00	LF		\$	
2860	04860		CABLE-NO. 8/3C DUCTED	740.00	LF		\$	
2870	04861		CABLE-NO. 6/3C DUCTED	5,315.00	LF		\$	
2880	04940		REMOVE LIGHTING	1.00	LS		\$	
2890	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	13.00	EACH		\$	
2900	21543EN		BORE AND JACK CONDUIT	785.00	LF		\$	
2910	23161EN		POLE BASE-HIGH MAST	56.00	CUYD		\$	
2920	23675EC		WIRE-NO. 12-INSTALL	1,440.00	LF		\$	
2930	24474ED		WIRE-NO.8-INSTALL	3,660.00	LF		\$	

Section: 0010 - TRAFFIC LOOPS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0280	04793		CONDUIT-1 1/4 IN	120.00	LF		\$	
0290	04795		CONDUIT-2 IN	70.00	LF		\$	
0300	04820		TRENCHING AND BACKFILLING	170.00	LF		\$	
0310	04829		PIEZOELECTRIC SENSOR	4.00	EACH		\$	
0320	04830		LOOP WIRE	3,400.00	LF		\$	
0330	04895		LOOP SAW SLOT AND FILL	673.00	LF		\$	
0340	20359NN		GALVANIZED STEEL CABINET	4.00	EACH		\$	
0350	20360ES818		WOOD POST	8.00	EACH		\$	
0360	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	4.00	EACH		\$	

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Section: 0011 - GUARDRAIL

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0370	02360		GUARDRAIL TERMINAL SECTION NO 1	7.00	EACH		\$	
0380	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0390	02367		GUARDRAIL END TREATMENT TYPE 1	7.00	EACH		\$	
0400	02369		GUARDRAIL END TREATMENT TYPE 2A	7.00	EACH		\$	
0410	02381		REMOVE GUARDRAIL	8,665.00	LF		\$	
0420	02397		TEMP GUARDRAIL	525.00	LF		\$	
0430	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	8,785.00	LF		\$	

Section: 0012 - CURB (ASPHALT ALTERNATE)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0440	01810		STANDARD CURB AND GUTTER	271.10	LF		\$	
0450	01820		LIP CURB AND GUTTER	56,207.50	LF		\$	
0460	01875		STANDARD HEADER CURB	133.00	LF		\$	
0470	01890		ISLAND HEADER CURB TYPE 1	214.50	LF		\$	
0480	01904		REMOVE CURB	56,693.10	LF		\$	
0490	01945		MOUNTABLE MEDIAN TYPE 1A	62.10	SQYD		\$	
0500	01946		MOUNTABLE MEDIAN TYPE 2A	6.40	SQYD		\$	
0510	23839EC		REMOVE CONCRETE MEDIAN	68.50	SQYD		\$	

Section: 0013 - CURB (CONCRETE ALTERNATE)

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0520	01810		STANDARD CURB AND GUTTER	271.10	LF		\$	
0530	01820		LIP CURB AND GUTTER	56,207.50	LF		\$	
0540	01845		ISLAND INTEGRAL CURB	44.50	LF		\$	
0550	01875		STANDARD HEADER CURB	133.00	LF		\$	
0560	01890		ISLAND HEADER CURB TYPE 1	170.00	LF		\$	
0570	01904		REMOVE CURB	56,693.10	LF		\$	
0580	01946		MOUNTABLE MEDIAN TYPE 2A	68.50	SQYD		\$	
0590	23839EC		REMOVE CONCRETE MEDIAN	68.50	SQYD		\$	

Section: 0014 - TRAINEES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0600	02742		TRAINEE PAYMENT REIMBURSEMENT1 CLASS A OPERATOR TRAINEE	1,600.00	HOUR		\$	
0610	02742		TRAINEE PAYMENT REIMBURSEMENT1 TRUCK DRIVER TRAINEE	1,400.00	HOUR		\$	

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Section: 0015 - MOBILIZATION / DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0620	02568		MOBILIZATION	1.00	LS		\$	
0630	02569		DEMOBILIZATION	1.00	LS		\$	