

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	ID	INSIDE DIAMETER
AC	ACRE	INV	INVERT
AGG	AGGREGATE	IP	IRON PIPE ON PIN
AECPRC	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE	LHF	LEFT-HAND FORWARD
AECPCS	APRON ENDWALL FOR CULVERT PIPE CORRUGATED STEEL	L	LENGTH OF CURVE
ASPH	ASPHALTIC	LF	LINEAR FOOT
AVG	AVERAGE	LC	LONG CHORD OF CURVE
ADT	AVERAGE DAILY TRAFFIC	LS	LUMP SUM
BF	BACK FACE	MH	MANHOLE
BM	BENCH MARK	MOR	MID POINT OF RADIUS
BR	BRIDGE	NC	NORMAL CROWN
CE	COMMERCIAL ENTRANCE	NO	NUMBER
C/L	CENTER LINE	OBLIT	OBLITERATE
Δ	CENTRAL ANGLE OR DELTA	PAVT	PAVEMENT
COB	CENTER OF BARRIER	PE	PRIVATE ENTRANCE
CONC	CONCRETE	PVRC	POINT OF VERTICAL REVERSE CURVE
CPRC	CULVERT PIPE REINFORCED CONCRETE	QOR	QUARTER POINT OF RADIUS
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CREEK	R	RADIUS
CR	CREEK	REQ'D	REQUIRED
CY	CUBIC YARD	RES	RESIDENCE OR RESIDENTIAL
C&G	CURB AND GUTTER	RHF	RIGHT-HAND FORWARD
D	DEGREE OF CURVE	R/W	RIGHT-OF-WAY
DHV	DESIGN HOUR VOLUME	R	RIVER
DISCH	DISCHARGE	RDWY	ROADWAY
DG	DITCH GRADE	R/L	REFERENCE LINE
DWY	DRIVEWAY	SALV	SALVAGED
X	EAST GRID COORDINATE	SAN	SANITARY SEWER
EAT	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	SF	SQUARE FEET
EOR	END POINT OF RADIUS	SY	SQUARE YARD
EL	ELEVATION	SDD	STANDARD DETAIL DRAWINGS
ENT	ENTRANCE	STA	STATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	SS	STORM SEWER
EXC	EXCAVATION	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
EBS	EXCAVATION BELOW SUBGRADE	SE	SUPERELEVATION RATE
EXIST	EXISTING	TC	TOP OF CURB
FC	FACE OF CURB	T OR TN	TOWN
FF	FACE TO FACE	T	TRUCKS (PERCENT OF)
FERT	FERTILIZE	TYP	TYPICAL
FE	FIELD ENTRANCE	VAR	VARIABLE
FL	FLOW LINE	VC	VERTICAL CURVE
FO	FIBER OPTIC	Y	NORTH GRID COORDINATE
CWT	HUNDREDWEIGHT	YD	YARD
HYD	HYDRANT		

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPERANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT						.70 - .95						
CONCRETE						.80 - .95						
BRICK						.70 - .80						
DRIVES, WALKS						.75 - .85						
ROOFS						.75 - .95						
GRAVEL ROADS, SHOULDERS						.40 - .60						

TOTAL PROJECT AREA = 5.7 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 4.6 ACRES

WISDOT CONTACT:

WISCONSIN DEPT OF TRANSPORTATION
NORTHWEST REGION
718 W CLAIREMONT AVE
EAU CLAIRE, WI 54701
TELEPHONE: 715.883.5570
ATTENTION: TOU YANG
EMAIL: TOU.YANG@DOT.WI.GOV

DNR AREA LIAISON:

BLACK RIVER FALLS DNR SERVICE CENTER
910 HWY 54 E
BLACK RIVER FALLS, WI 54615
TELEPHONE: 715.213.9064
ATTENTION: BRAD BETTHAUSER
EMAIL: BRADLEY.BETTHAUSER@WISCONSIN.GOV

UTILITY CONTACT LIST:

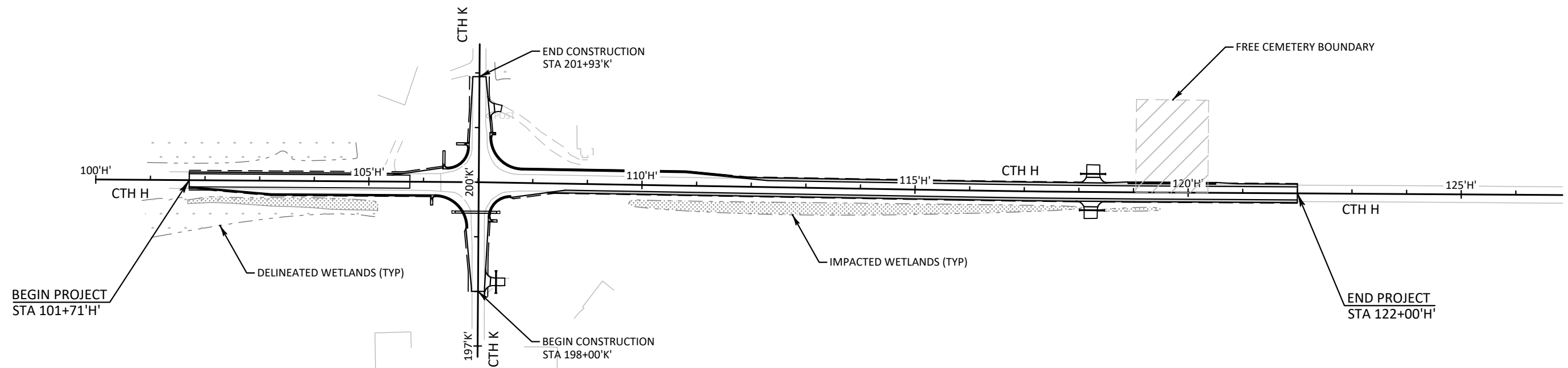
CHARTER COMMUNICATIONS
503 E IVES ST. #316
MARSHFIELD, WI 54449
TELEPHONE: (715) 651-5605 (CELL)
TELEPHONE: (715) 898-1616 (OFFICE)
ATTENTION: JESSE GRUNY
EMAIL: JESSE.GRUNY@CHARTER.COM

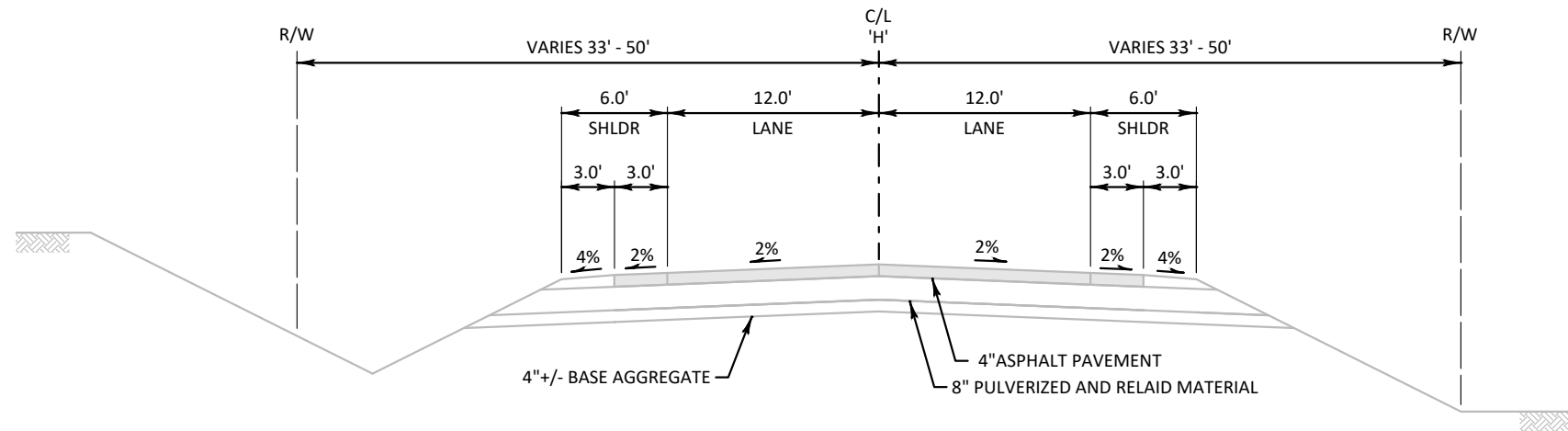
FRONTIER COMMUNICATIONS
1851 N 14TH AVE
WAUSAU, WI 54401
TELEPHONE: (715) 243-9243 (OFFICE)
ATTENTION: JEREMY ZEHM
EMAIL: JEREMY.ZEHM@FTR.COM

CLARK ELECTRIC COOPERATIVE
1209 W. DALL-BERG STREET
GREENWOOD, WI 54437
TELEPHONE: (715) 456-3364 (CELL)
TELEPHONE: (715) 267-6188 (OFFICE)
ATTENTION: JOSH BURNS
JBURNS@CECOOP.COM

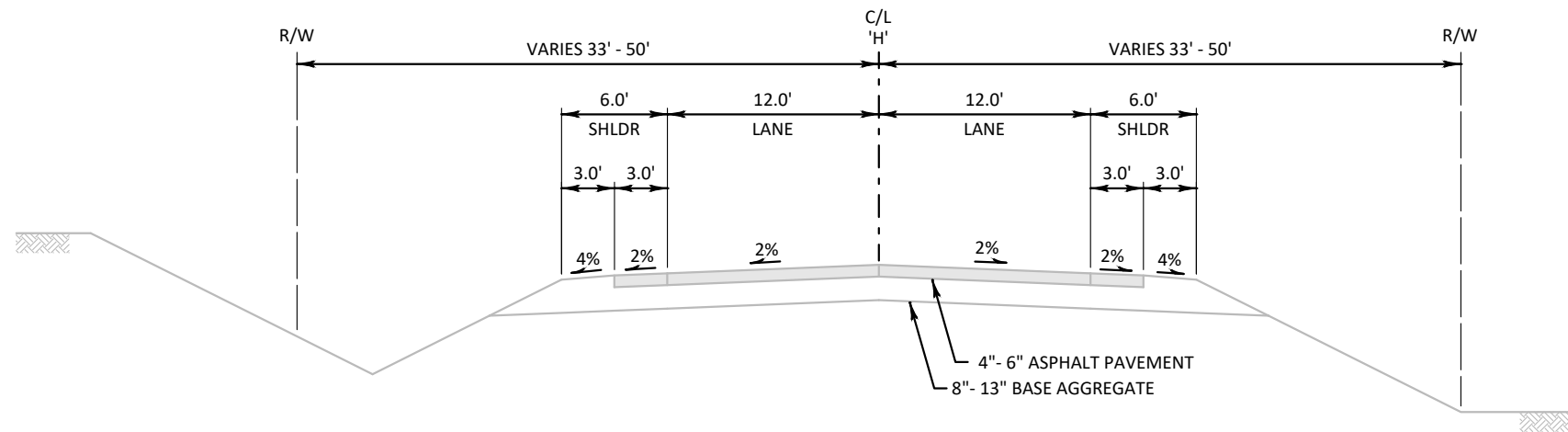
COUNTY CONTACT:

CLARK COUNTY HIGHWAY DEPARTMENT
511 W SOUTH STREET
LOYAL, WI 54446
TELEPHONE: 715.743.3680
ATTENTION: BRIAN DUELL
EMAIL: BRIAN.DUELL@CO.CL

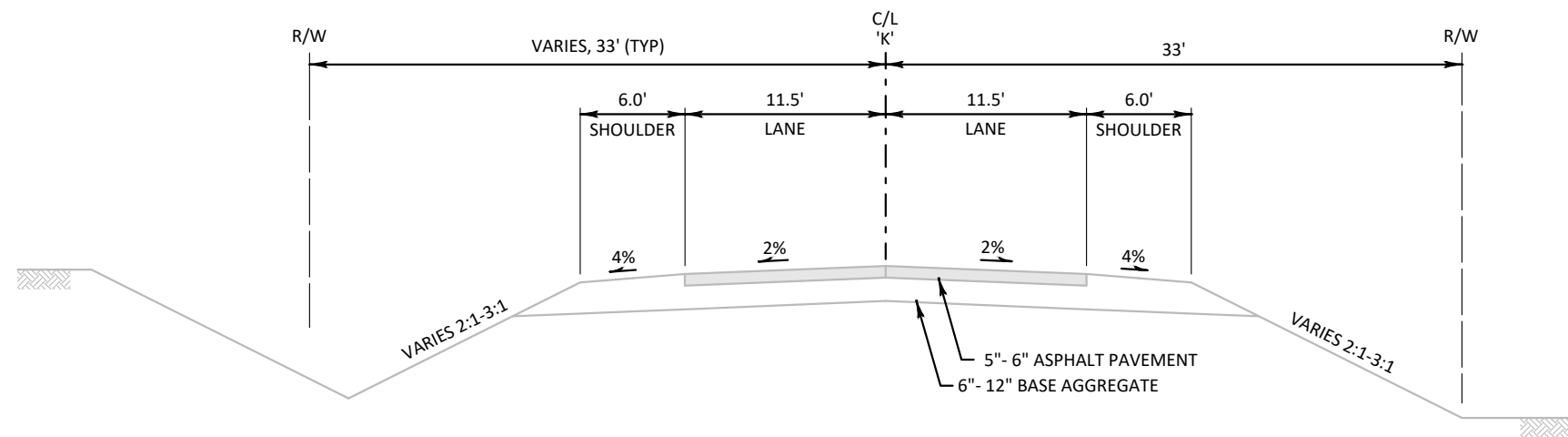


**EXISTING TYPICAL SECTION**

CTH H
STA 101+71'H' - STA 106+32'H'

**EXISTING TYPICAL SECTION**

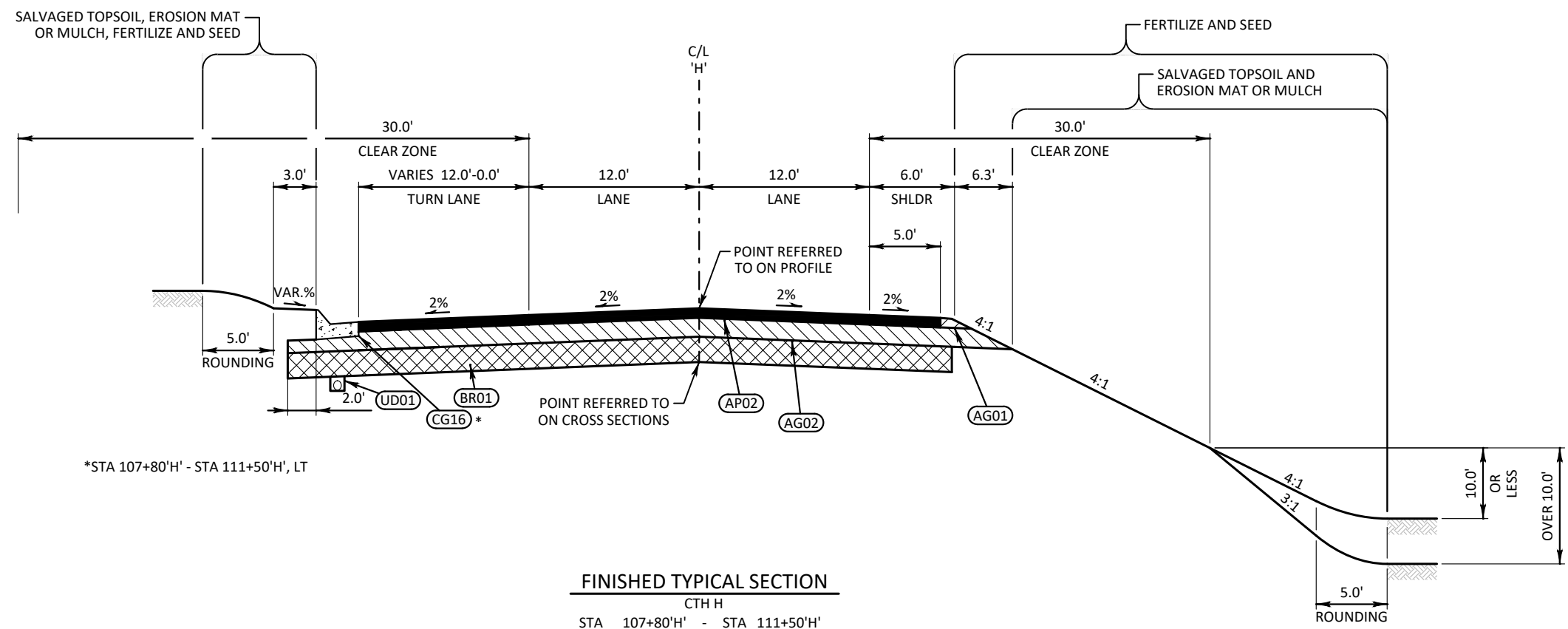
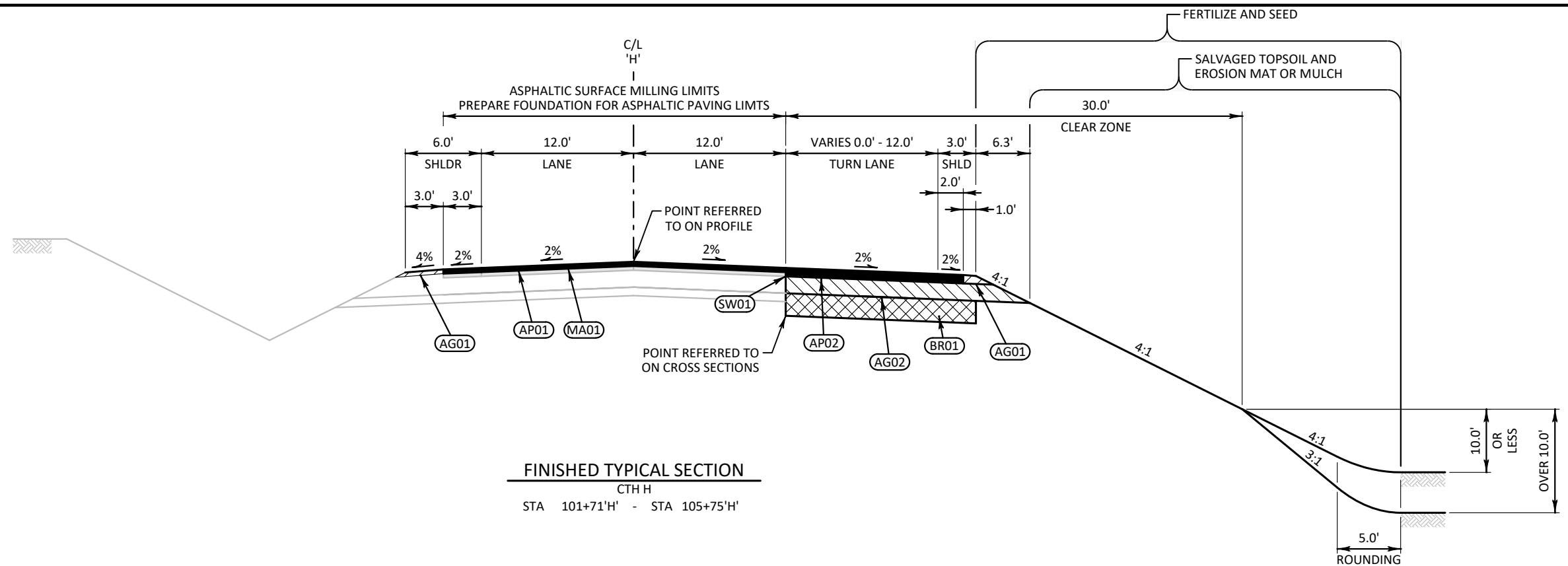
CTH H
STA 106+32'H' - STA 122+00'H'

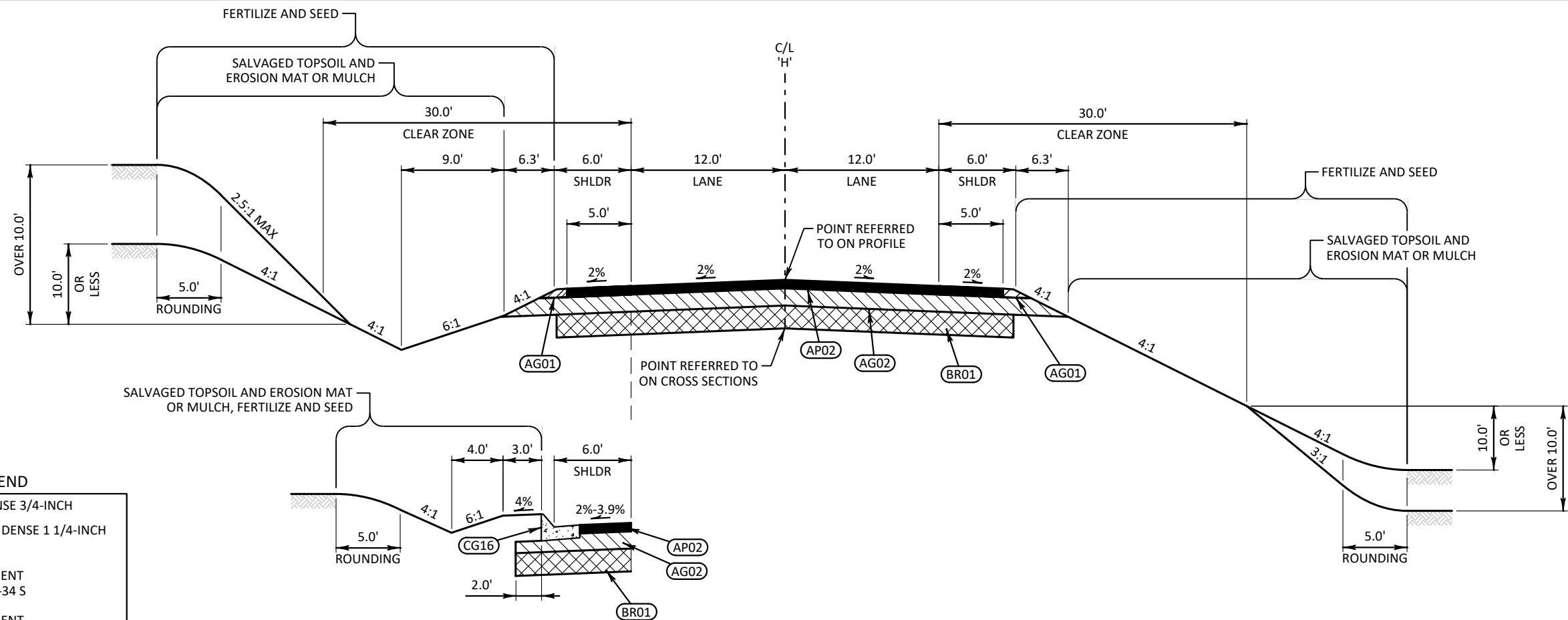
**EXISTING TYPICAL SECTION**

CTH K
STA 198+00'K' - STA 201+93'K'

KEYNOTE LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG02	12" BASE AGGREGATE DENSE 1 1/4-INCH
BR01	16" BREAKER RUN
AP01	2.5-INCH HMA PAVEMENT UPPER: 2.5" 4 MT 58-34 S
AP02	5.5-INCH HMA PAVEMENT UPPER: 2.5" 4 MT 58-34 S LOWER: 3.0" 3 MT 58-28 S
CG16	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
MA01	REMOVING ASPHALTIC SURFACE MILLING 2.5-INCHES
SW01	SAWING ASPHALT
UD01	PIPE UNDERDRAIN 6-INCH

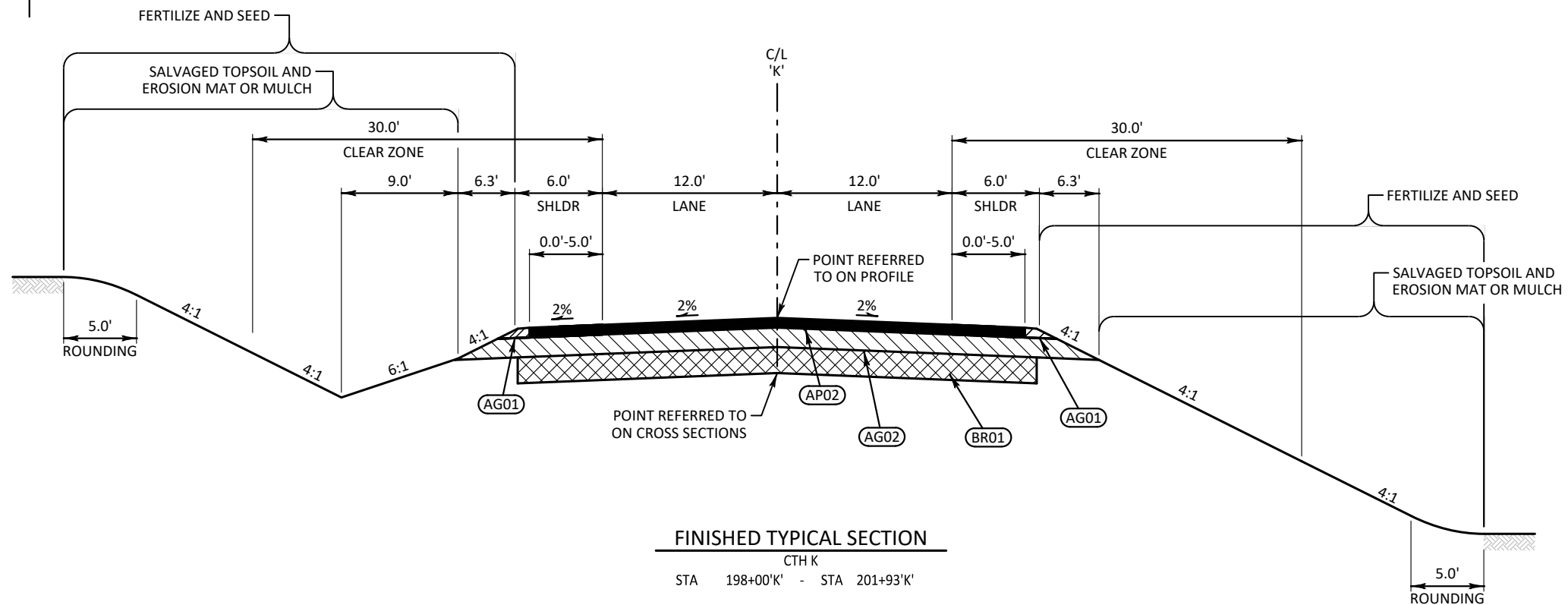




FINISHED TYPICAL SECTION

CTH H
STA 105+75'H' - STA 107+80'H'
STA 111+50'H' - STA 122+00'H'

STA 118+90'H' - STA 120+50'H', LT

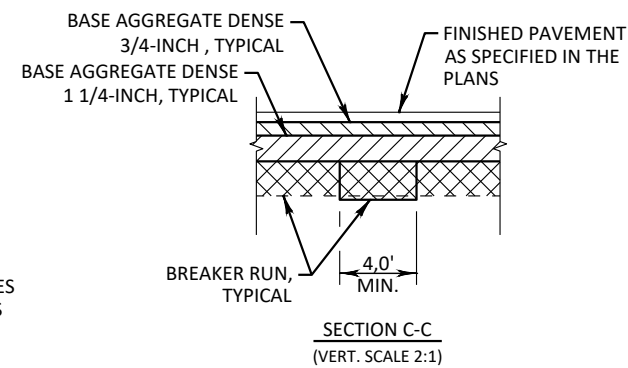
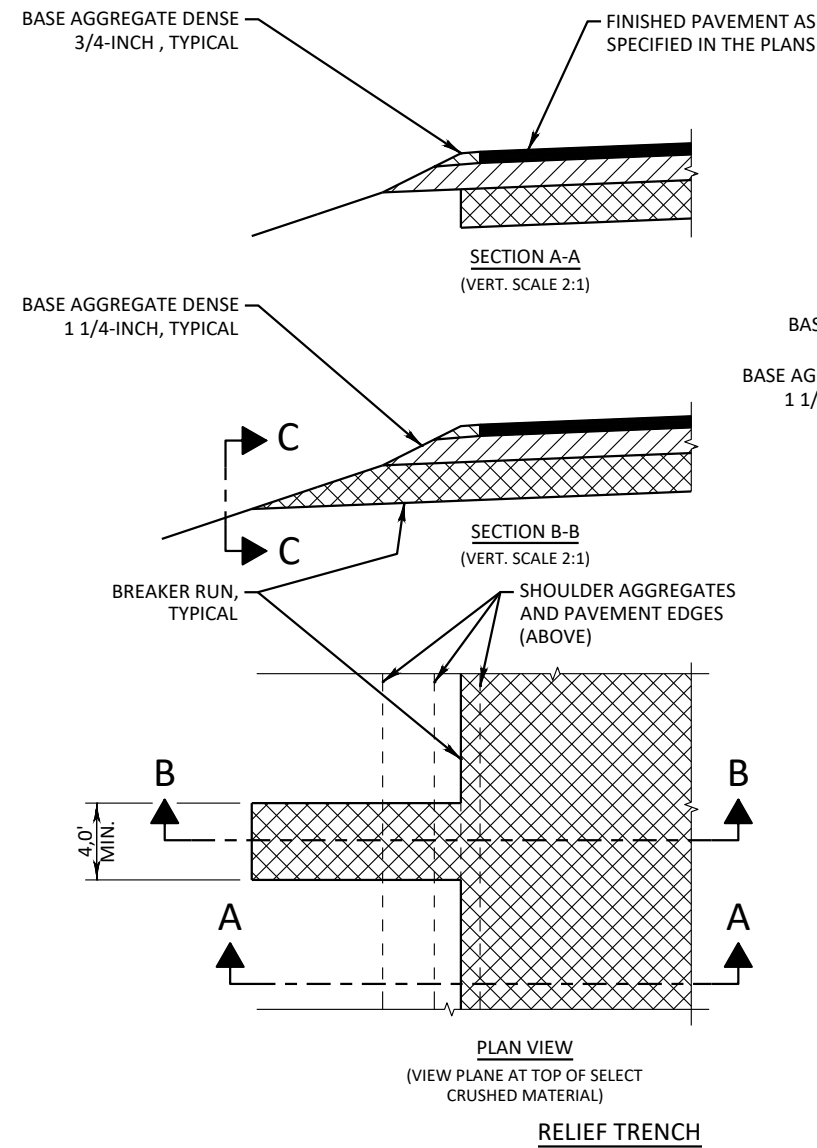


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KEYNOTE LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
(AG02) 12" BASE AGGREGATE DENSE 1 1/4-INCH
(BR01) 16" BREAKER RUN
(AP01) 2.5-INCH HMA PAVEMENT
UPPER: 2.5" 4 MT 58-34 S
(AP02) 5.5-INCH HMA PAVEMENT
UPPER: 2.5" 4 MT 58-34 S
LOWER: 3.0" 3 MT 58-28 S
(CG16) CONCRETE CURB & GUTTER 4-INCH SLOPED
36-INCH TYPE D
(SW01) SAWING ASPHALT

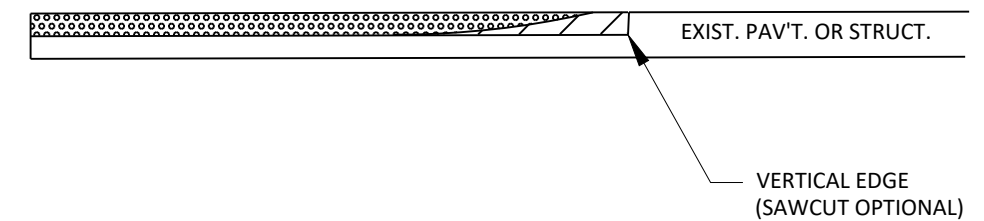


NOTE:

CONSTRUCT RELIEF TRENCHES AT 200'-300' INTERVALS
AND AT PROFILE SAG POINTS (LEFT AND RIGHT).

FINAL LOCATIONS TO BE APPROVED OR DETERMINED
BY THE ENGINEER IN THE FIELD.

MATERIALS AND LABOR FOR RELIEF TRENCH ARE
INCLUDED IN THE BREAKER RUN BID ITEM.

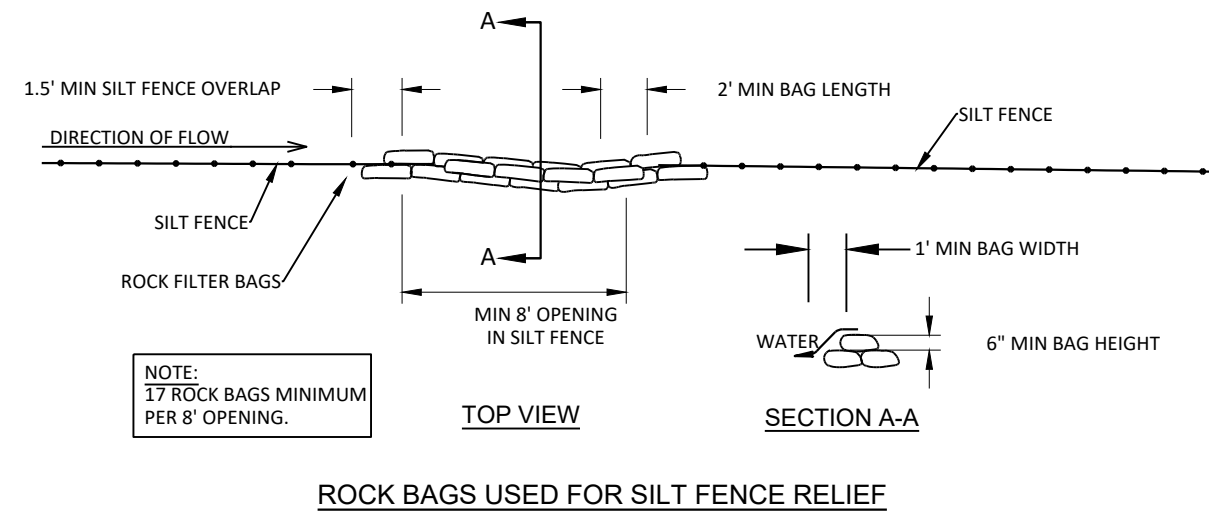


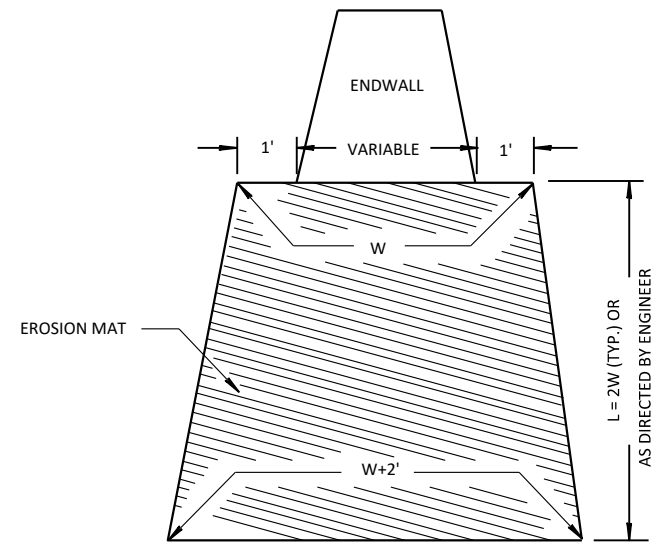
REMOVING ASPHALTIC SURFACE, MILLING



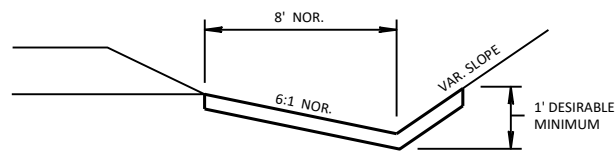
REMOVING ASPHALTIC SURFACE BUTT JOINT

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS
NO PROFILE CHANGE

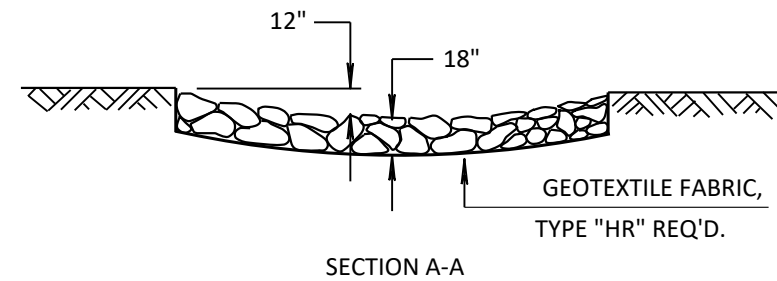
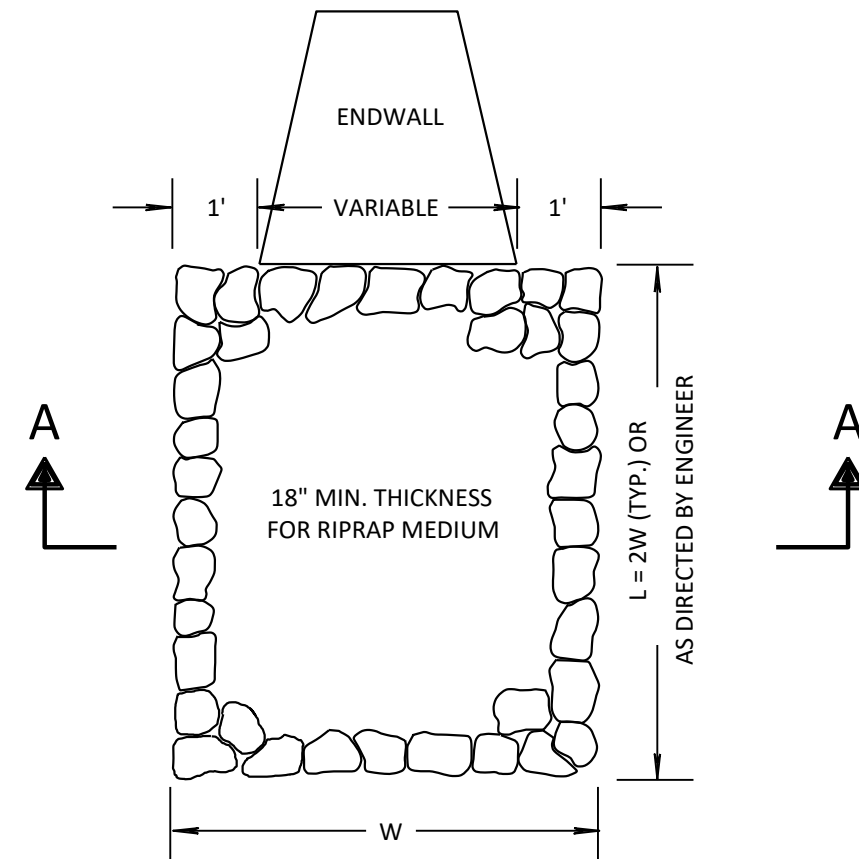




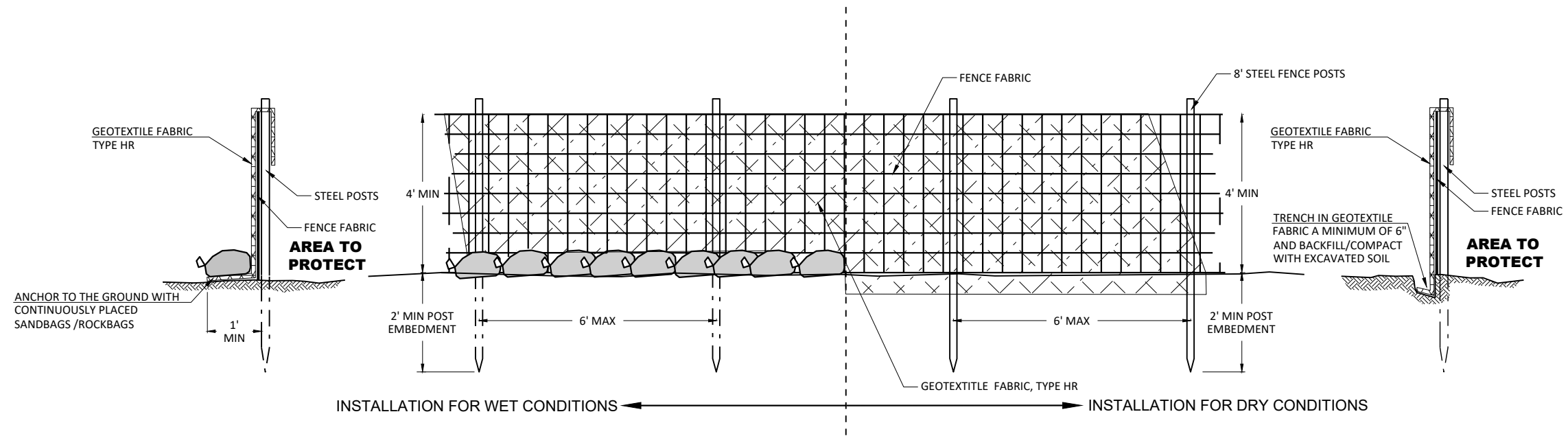
EROSION MAT TREATMENT AT CULVERTS



EROSION MAT DETAIL FOR DITCHES

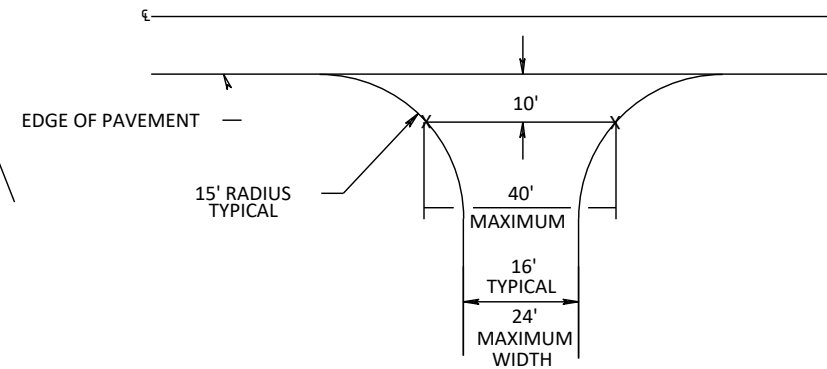


RIPRAP MEDIUM TREATMENT AT CULVERTS

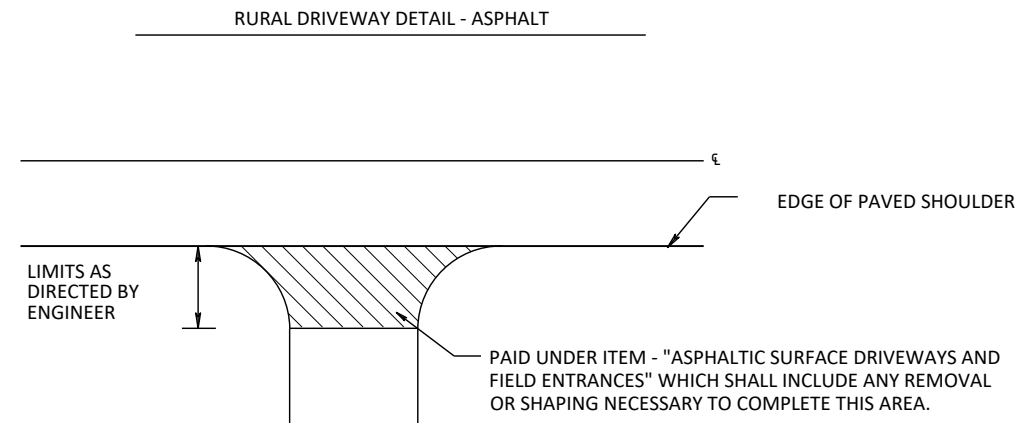


SILT FENCE HEAVY DUTY

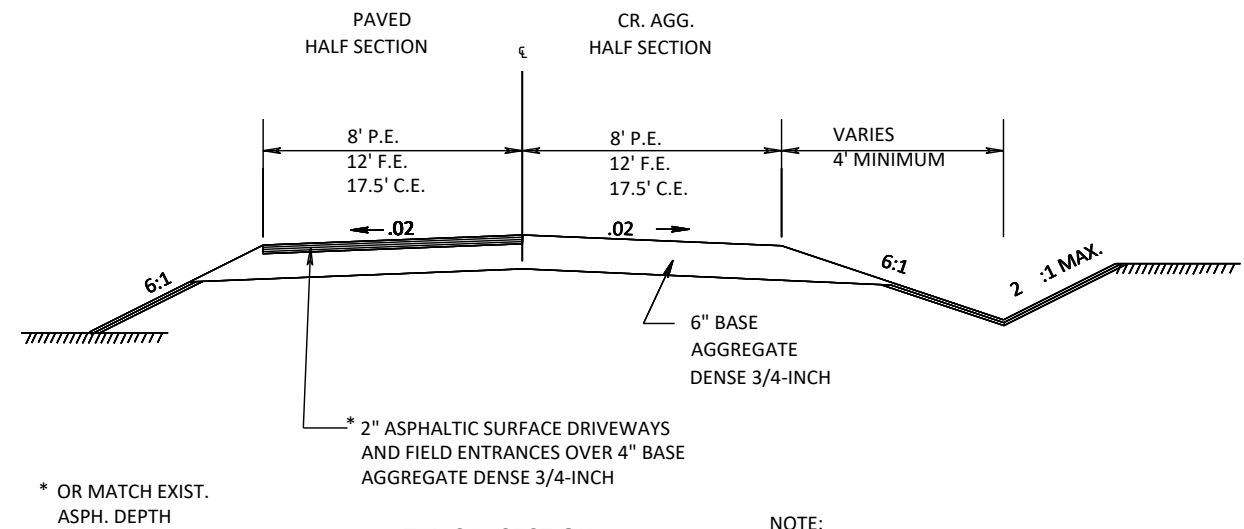
- GENERAL NOTES:
1. ATTACH FENCE FABRIC TO POSTS A MINIMUM OF 3 TIES PER POST (TOP, MIDDLE, BOTTOM)
 2. ATTACH GEOTEXTILE FABRIC TO FENCE FABRIC AND/OR POSTS AT A MAXIMUM SPACING OF EVERY 2 FEET ALONG THE TOP AND ADDITIONALLY AS NECESSARY TO PREVENT DISPLACEMENT BY WIND AND WAVE ACTIONS.



TYPICAL DRIVEWAY DETAIL
(NON-COMMERCIAL RURAL)

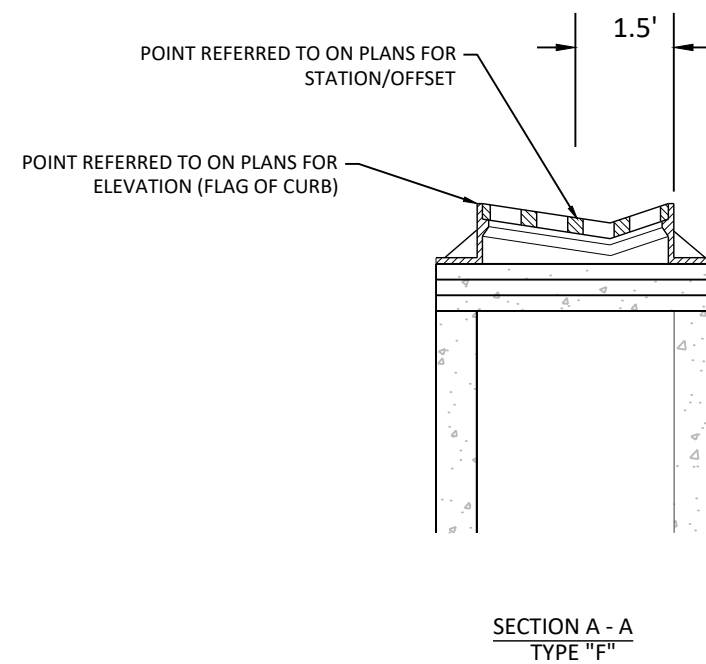
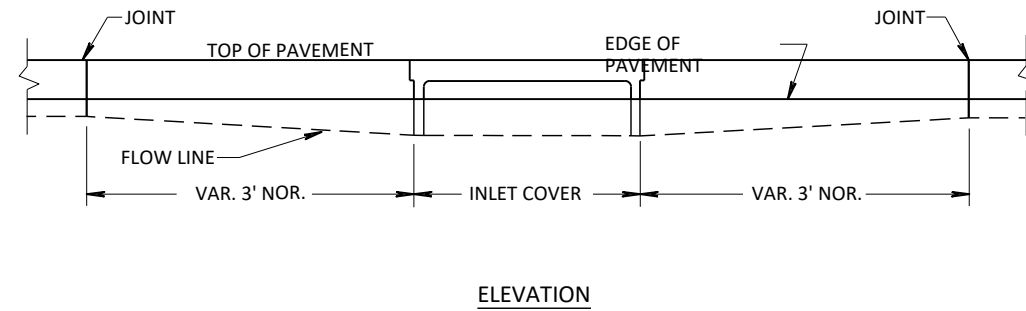
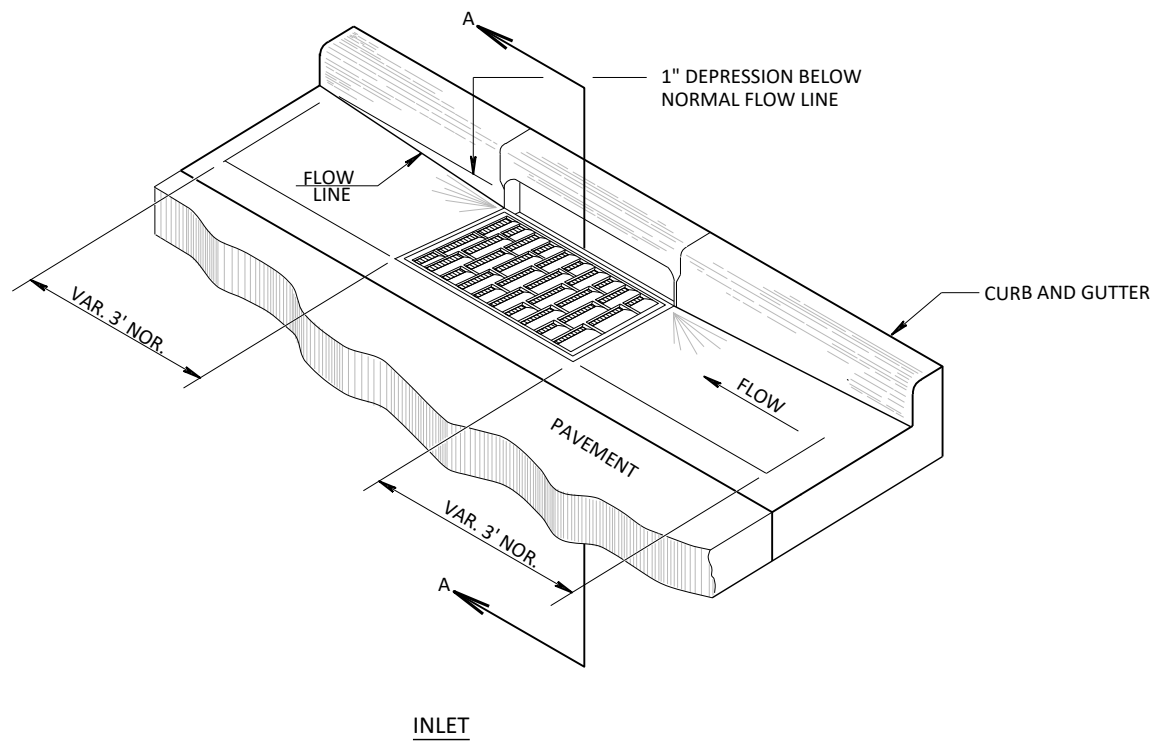


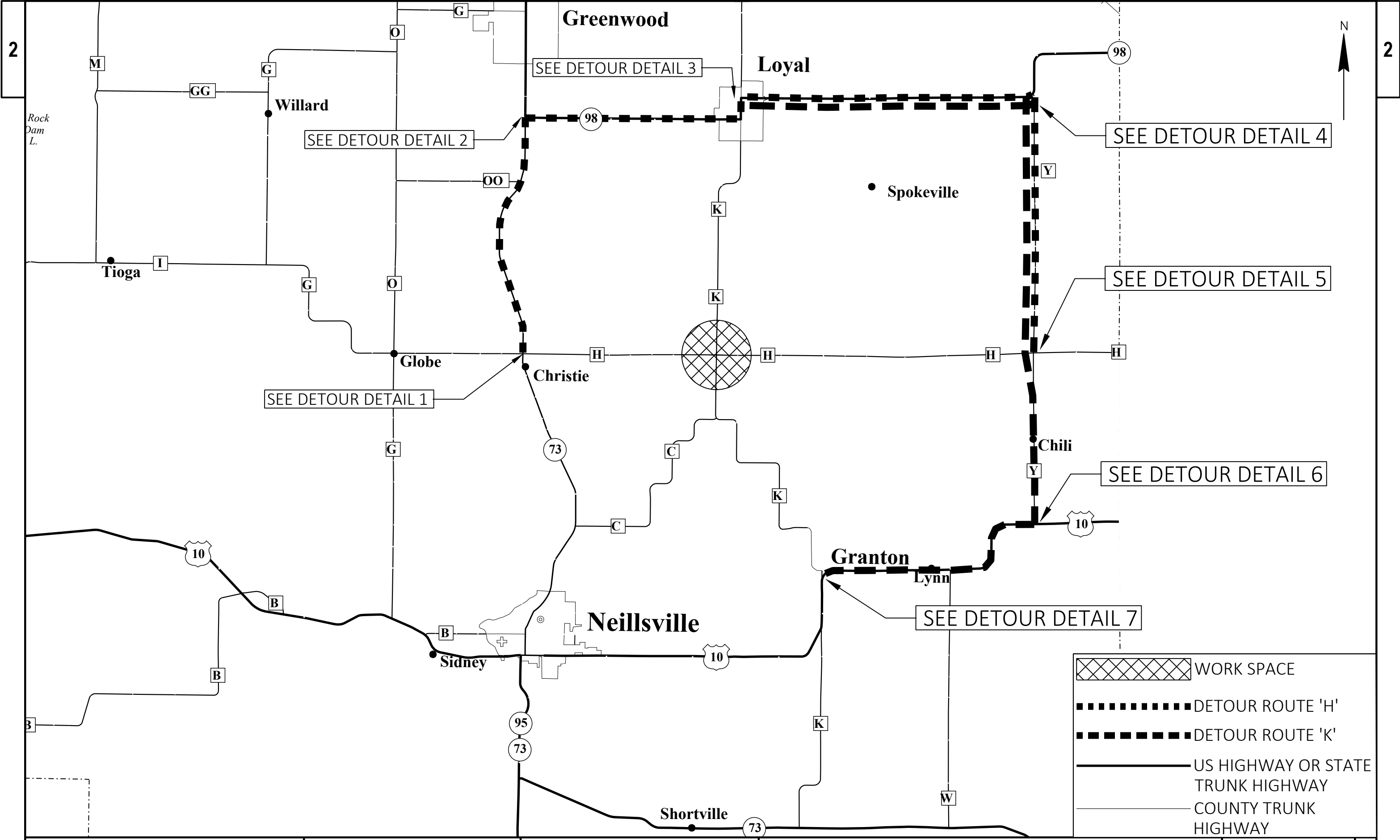
ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 3/4-INCH"

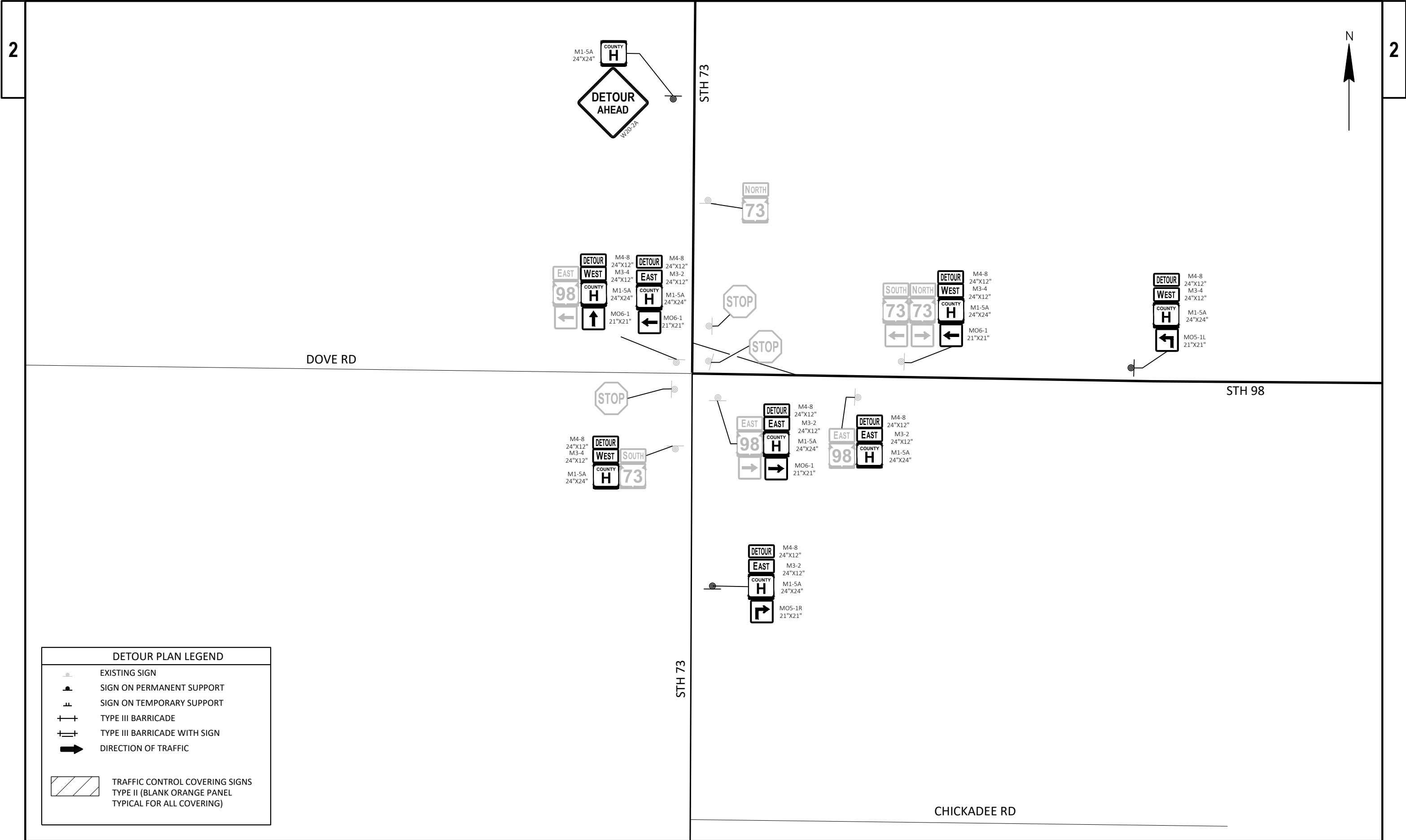


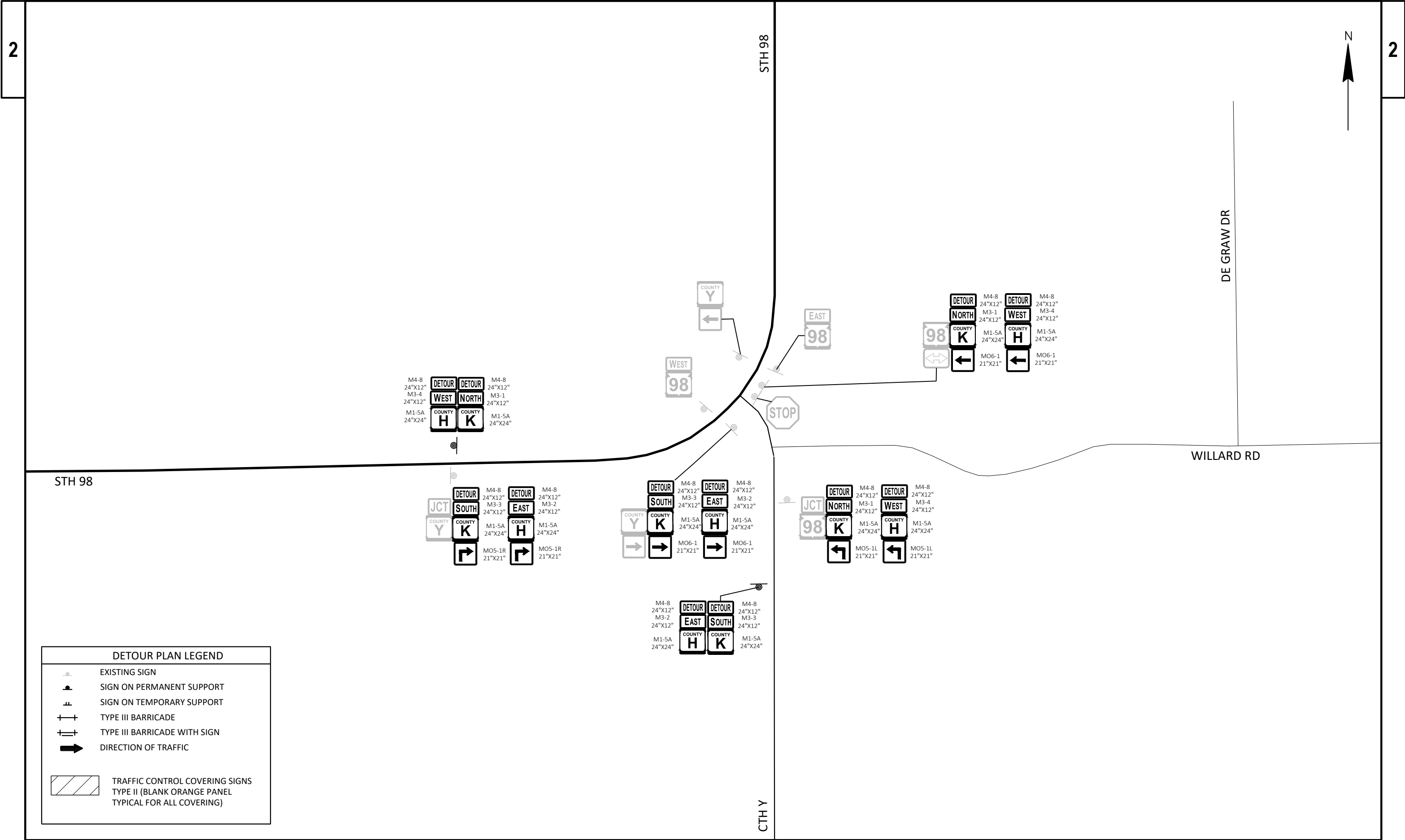
TYPICAL SECTION
FOR PRIVATE ENTRANCES

NOTE:
DRIVEWAY PROFILES NOT EXPECTED TO EXCEED 10%. PLACE LOW POINT OF DRIVEWAY PROFILE OVER DITCH FLOW LINE.









DETOUR PLAN LEGEND

EXISTING SIGN

SIGN ON PERMANENT SUPPORT

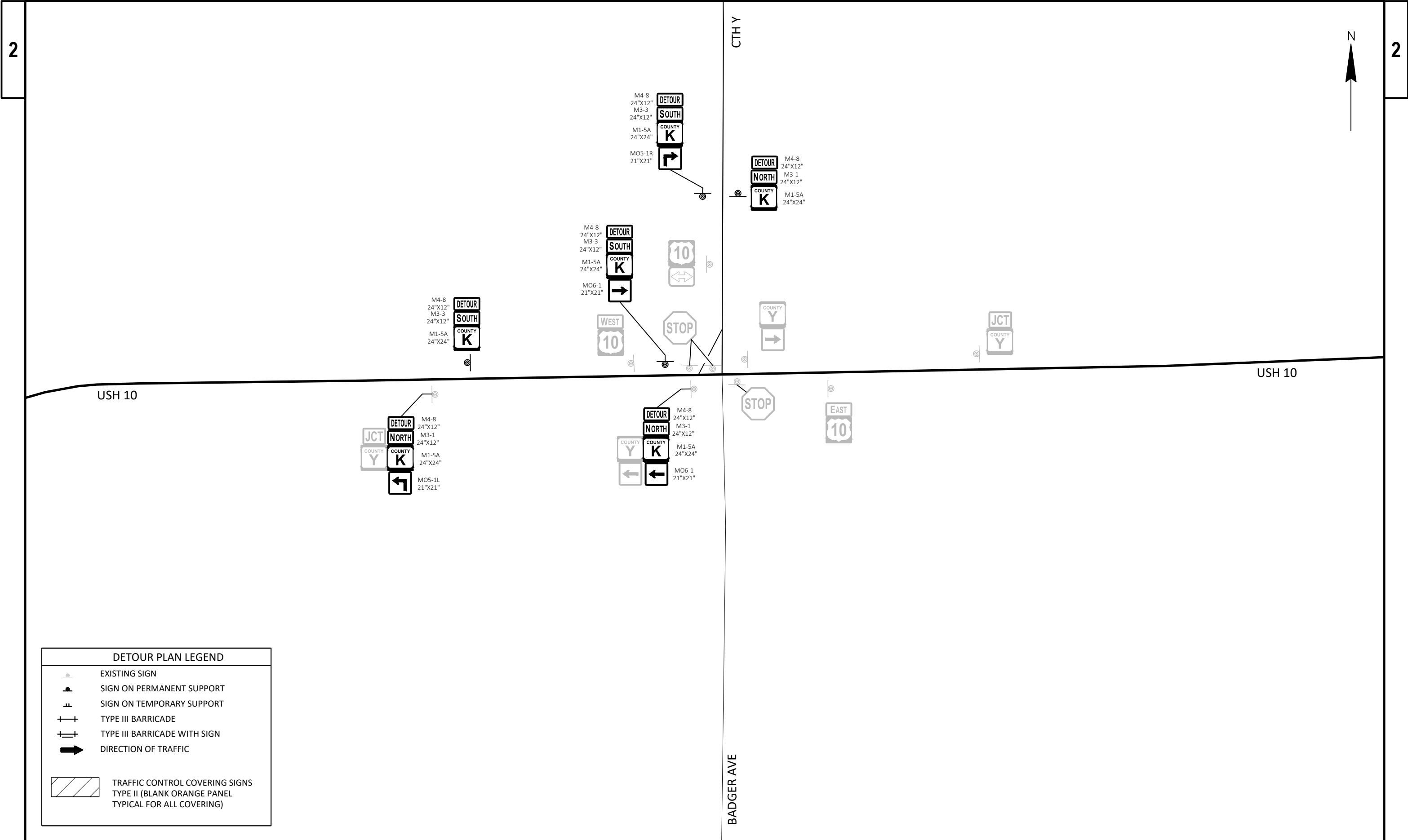
SIGN ON TEMPORARY SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH SIGN

DIRECTION OF TRAFFIC

TRAFFIC CONTROL COVERING SIGNS
TYPE II (BLANK ORANGE PANEL
TYPICAL FOR ALL COVERING)



DETOUR PLAN LEGEND

EXISTING SIGN

SIGN ON PERMANENT SUPPORT

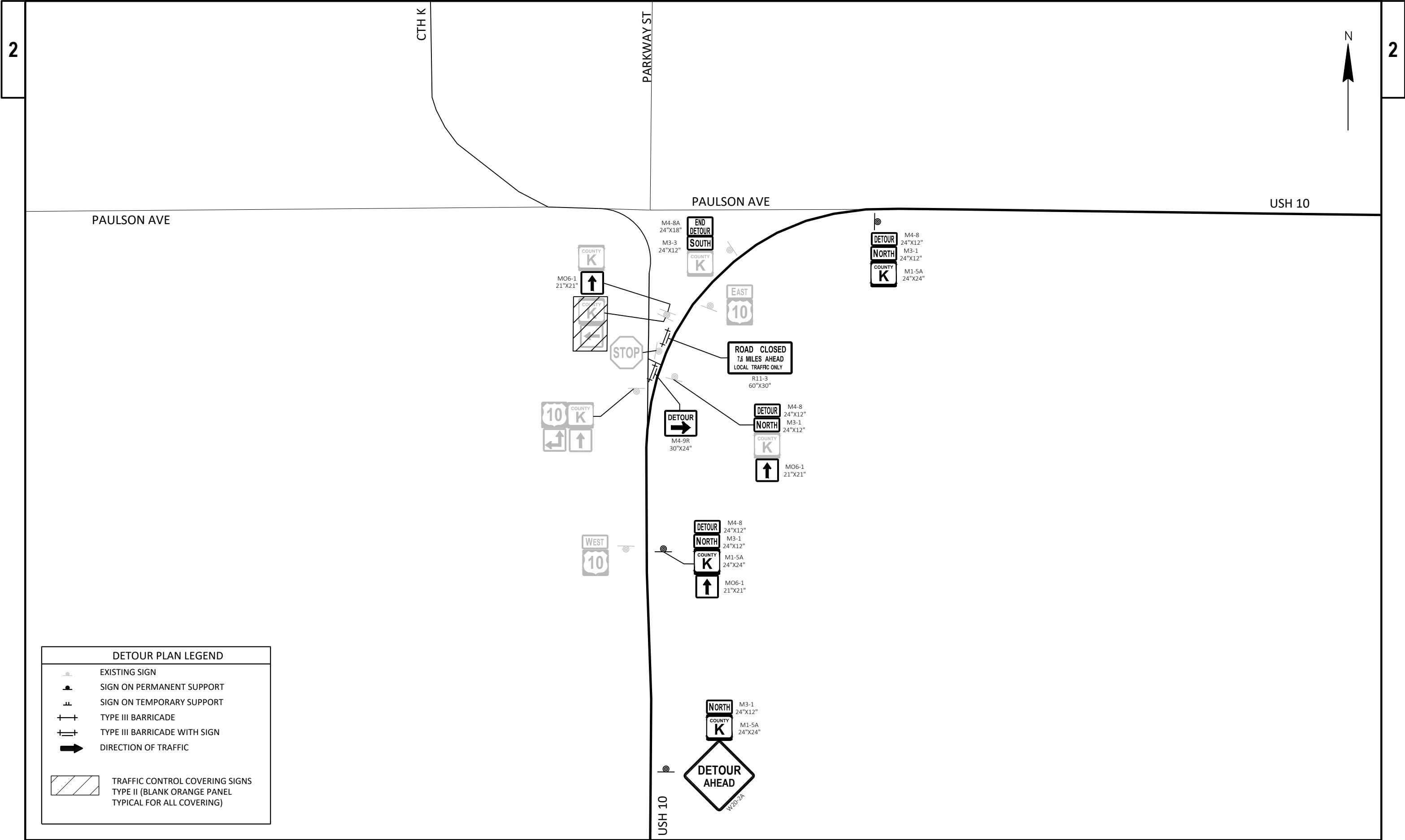
SIGN ON TEMPORARY SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH SIGN

DIRECTION OF TRAFFIC

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TYPE II (BLANK ORANGE PANEL
TYPICAL FOR ALL COVERING)



TREE REMOVAL ITEMS

STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
109+00'H' - 110+00'H'	RT	1	1
ITEM TOTALS		1	1

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	REMARKS
105+35'H'	LT	1	32 FT 15-INCH CMP
198+18'K'	RT	1	30 FT 18-INCH HDPE
199+65'K'	RT	1	68 FT 24-INCH HDPE
ITEM TOTALS		3	

REMOVING PAVEMENT ITEMS

STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
101+71'H'	LT & RT	7	
101+71'H' - 105+75'H'	LT & RT		1215
ITEM TOTALS		7	1215

NOTE: BID ITEMS ARE UNDER CATEGORY 0010, UNLESS OTHERWISE NOTED

EARTHWORK SUMMARY							
CATEGORY 0010							
FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION	SALVAGED / UNUSABLE PAVEMENT MATERIAL (2)	AVAILABLE MATERIAL (3)	UNEXPANDED FILL	EXPANDED FILL (4)	MASS ORDINATE +/- (5)
		CUT (1)				FACTOR 1.25	
STA 101+71'H' TO 122+00'H'	CTH H MAINLINE	18,236	751	17,485	686	858	16,628
STA 198+00'K' TO 199+16'K'	CTH K MAINLINE	695	41	654	51	64	590
STA 199+16'K' TO 199+76'K'	CTH K INTERSECTION	420	31	389	124	155	234
STA 200+24'K' TO 200+64'K'	CTH K INTERSECTION	198	28	170	144	180	-10
STA 200+64'K' TO 201+93'K'	CTH K MAINLINE	500	46	454	165	206	248
		20,049	897	19,152	1,170	1,463	17,690

NOTES:
(1) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(2) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(4) EXPANDED FILL FACTOR = 1.25
(5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.
MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

NOTE: BID ITEMS ARE UNDER CATEGORY 0010, UNLESS OTHERWISE NOTED

CULVERT ITEMS

*** INLET		*** OUTLET				SLOPE (%)	LOCATION	525.0315	530.0115	525.0318	530.0118	522.2424	522.2624	*	633.5200	650.6000	** JOINT TIES
STATION	OFFSET	ELEV. (FT)	STATION	OFFSET	ELEV. (FT)			APRON ENDWALLS FOR CULVERT PIPE ALUMINUM 15-INCH	CULVERT PIPE CORRUGATED POLYETHYLENE 15-INCH	APRON ENDWALLS FOR CULVERT PIPE ALUMINUM 18-INCH	CULVERT PIPE CORRUGATED POLYETHYLENE 18-INCH	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH		MARKERS CULVERT END	CONSTRUCTION STAKING PIPE CULVERT	
118+47'H'	33.2' LT	1211.80	118+05'H'	33.1' LT	1211.20	1.43%	FE	2	42								
118+45'H'	33.3' RT	1211.80	118+03'H'	33.4' RT	1211.20	1.43%	FE	2	42								
197+99'K'	32.9' RT	1181.14	198+36'K'	32.9' RT	1179.67	4.01%	PE			2	36						
199+45'K'	33.2' RT	1175.60	199+45'K'	42.8' LT	1174.32	1.68%	CTH K					76	2		2	1	12
ITEM TOTALS								4	84	2	36	76	2		2	1	12

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AND STATION/OFFSET AT END OF PIPE

NOTE: BID ITEMS ARE UNDER CATEGORY 0010, UNLESS OTHERWISE NOTED

