

07-30-2021 LETTING ITEM 062

INDEX OF SHEETS

- 1. Cover Sheet
- 2. Summary of Quantities, Highway Standards, Schedules, and General Notes
- 3. Typical Sections and Schedules
- 4. Pipe Culvert Profiles

HIGHWAY STANDARDS, SEE SHEET #2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 1804	19-00126-00-RS	LAWRENCE	4	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROJECT**

FAS 1804
SECTION 19-00126-00-RS
LAWRENCE COUNTY
PROJECT SE27(409)
JOB NO. C-97-005-22



APPROVED May 19, 2021
Aaron M. Me...
COUNTY ENGINEER

PASSED May 27, 2021
Brett Walker
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

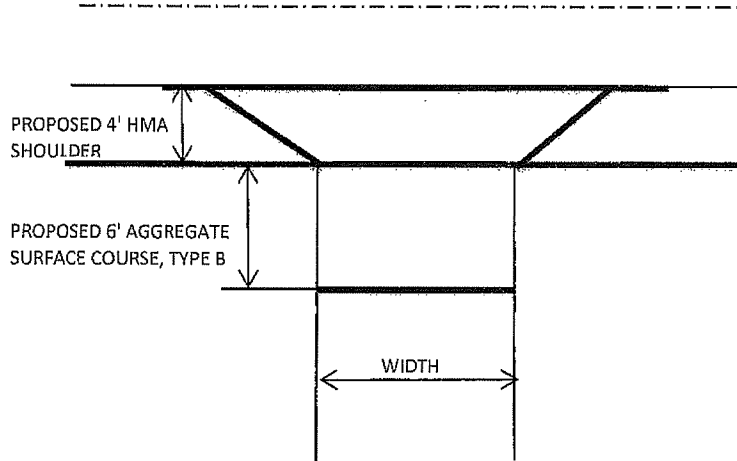
RELEASING FOR
BID BASED ON
LIMITED REVIEW May 27, 2021
Jeffrey Hunseler, S.W.
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

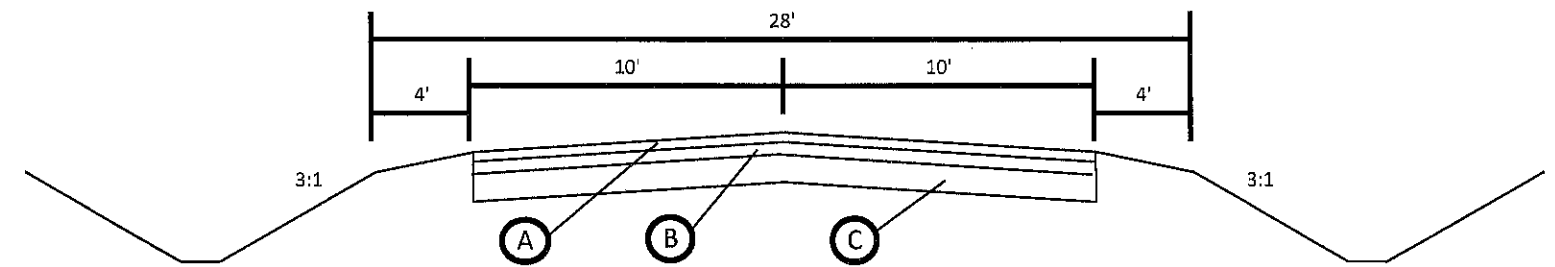


CONTRACT NO. 95904
DESIGN CLASS = MAJOR COLLECTOR
ADT = 900
DESIGN SPEED = 50 MPH



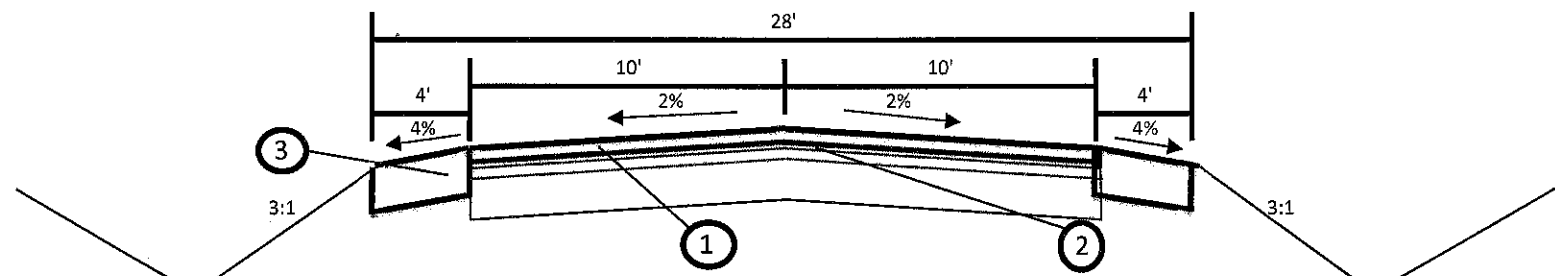
<div>HIGHWAY STANDARDS</div> <div><div>000001-08</div><div>STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS</div></div> <div><div>642006-01</div><div>SHOULDER RUMBLE STRIPS, 8in.</div></div> <div><div>701006-05</div><div>OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE</div></div> <div><div>701301-04</div><div>LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS</div></div> <div><div>701306-04</div><div>LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS</div></div> <div><div>701311-03</div><div>DAY ONLY, FOR SPEEDS ≥ 45 MPH</div></div> <div><div>701311-03</div><div>LANE CLOSURE 2L, 2W MOVING OPERATIONS</div></div> <div><div>701311-03</div><div>DAY ONLY</div></div> <div><div>701336-07</div><div>LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH</div></div> <div><div>701901-08</div><div>TRAFFIC CONTROL DEVICES</div></div> <div><div>780001-05</div><div>TYPICAL PAVEMENT MARKINGS</div></div> <div><div>BLR 21-9</div><div>TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS</div></div>		<div>GENERAL NOTES</div> <div><div>THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 ALLOWS 6 TONS FOR SIDEROADS, AND 2343 TONS FOR THE 1¼" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C" N70 AND 3180 TONS FOR THE FIRST LIFT AND CROWN CORRECTION.</div><div><div>THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITY</div><div><div>AGGREGATE SHOULDERS, TY. B</div><div>1.8 TON/CU YD</div></div><div><div>HOT-MIX ASPHALT</div><div>0.0560 TON/ SQ YD*INCH</div></div><div><div>BITUMINOUS MATERIALS (TACK COAT)</div><div>0.05 LBS/SQ FT</div></div></div><div><div>GRADING AND SHAPING DITCHES SHALL BE INCLUDED N THE PRICE FOR PROPOSED PIPE CULVERTS</div></div><div><div>MIX DESIGN FOR HOT-MIX ASPHALT</div><div><div>APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N70</div><div>PG GRADE: PG 64-22</div><div>DESIGN AIR VOIDS: 4.0% @ Ndesign 70</div><div>MIXTURE COMPOSITION: IL-9.5</div><div>FRICTION AGGREGATE: MIXTURE C</div></div></div><div><div>ALL DISTURBED AREAS TO BE SEEDED BY COUNTY</div></div></div>		<table><tr><th>CONTRACT</th><th>ROUTE</th><th>SECTION</th><th>COUNTY</th><th>TOTAL SHEETS</th><th>SHEET</th></tr><tr><td>95904</td><td>FAS 1804</td><td>19-00126-00-RS</td><td>LAWRENCE</td><td>4</td><td>2</td></tr></table>						CONTRACT	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET	95904	FAS 1804	19-00126-00-RS	LAWRENCE	4	2																																																										
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<div>SUMMARY OF QUANTITIES</div> <table><tr><th>CODE NO.</th><th>ITEM</th><th>UNIT</th><th>TOTAL QUANTITY</th></tr><tr><td>20800150</td><td>TRENCH BACKFILL</td><td>CU YD</td><td>106</td></tr><tr><td>40200800</td><td>AGGREGATE SURFACE COURSE, TYPE B</td><td>TON</td><td>42</td></tr><tr><td>40600290</td><td>BITUMINOUS MATERIALS (TACK COAT)</td><td>POUND</td><td>16140</td></tr><tr><td>40604052</td><td>HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70</td><td>TON</td><td>5529</td></tr><tr><td>48203100</td><td>HOT-MIX ASPHALT SHOULDERS</td><td>TON</td><td>4500</td></tr><tr><td>542C1081</td><td>PIPE CULVERTS, CLASS C, TYPE 2 36"</td><td>FOOT</td><td>200</td></tr><tr><td>△ 64200108</td><td>SHOULDER RUMBLE STRIPS, 8 INCH</td><td>FOOT</td><td>21076</td></tr><tr><td>67100100</td><td>MOBILIZATION</td><td>L SUM</td><td>1</td></tr><tr><td>70100460</td><td>TRAFFIC CONTROL AND PROTECTION, STANDARD 701306</td><td>L SUM</td><td>1</td></tr><tr><td>70100600</td><td>TRAFFIC CONTROL AND PROTECTION, STANDARD 701336</td><td>L SUM</td><td>1</td></tr><tr><td>70300100</td><td>SHORT TERM PAVEMENT MARKING</td><td>FOOT</td><td>2152</td></tr><tr><td>70300150</td><td>SHORT TERM PAVEMENT MARKING REMOVAL</td><td>SQ FT</td><td>897</td></tr><tr><td>△ 78001110</td><td>PAINT PAVEMENT MARKING - LINE 4"</td><td>FOOT</td><td>2690</td></tr><tr><td>XX127400</td><td>PAVEMENT REMOVAL AND REPLACENT (SPECIAL)</td><td>TON</td><td>48</td></tr></table>						CODE NO.	ITEM	UNIT	TOTAL QUANTITY	20800150	TRENCH BACKFILL	CU YD	106	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	42	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	16140	40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	5529	48203100	HOT-MIX ASPHALT SHOULDERS	TON	4500	542C1081	PIPE CULVERTS, CLASS C, TYPE 2 36"	FOOT	200	△ 64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	21076	67100100	MOBILIZATION	L SUM	1	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2152	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	897	△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2690	XX127400	PAVEMENT REMOVAL AND REPLACENT (SPECIAL)	TON	48														
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<div>△ SPECIALTY ITEMS</div> <div><div>PAVEMENT MARKING SCHEDULE</div><table><tr><th>STATION</th><th>TO</th><th>STATION</th><th>LOCATION</th><th>FOOT</th></tr><tr><td>72+40</td><td></td><td>180+00</td><td>CL</td><td>2690</td></tr><tr><td colspan="4">TOTAL =</td><td>2690.0</td></tr></table></div>						STATION	TO	STATION	LOCATION	FOOT	72+40		180+00	CL	2690	TOTAL =				2690.0																																																											
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<div>SCHEDULE OF PIPE CULVERTS</div> <table><tr><th>STATION</th><th>SIZE</th><th>LENGTH</th></tr><tr><td>175+86</td><td>36"</td><td>50 FT</td></tr><tr><td>176+55</td><td>36"</td><td>150 FT</td></tr><tr><td colspan="2">TOTAL =</td><td>200 FT</td></tr></table>		STATION	SIZE	LENGTH	175+86	36"	50 FT	176+55	36"	150 FT	TOTAL =		200 FT	<div>SHOULDER RUMBLE STRIPS</div> <table><tr><th>STATION</th><th>TO</th><th>STATION</th><th>LOCATION</th><th>FOOT</th></tr><tr><td>72+40</td><td></td><td>98+45</td><td>RIGHT</td><td>2605</td></tr><tr><td>72+40</td><td></td><td>98+32</td><td>LEFT</td><td>2592</td></tr><tr><td>98+89</td><td></td><td>111+45</td><td>RIGHT</td><td>1256</td></tr><tr><td>98+76</td><td></td><td>111+45</td><td>LEFT</td><td>1269</td></tr><tr><td>111+89</td><td></td><td>133+05</td><td>RIGHT</td><td>2116</td></tr><tr><td>111+89</td><td></td><td>125+58</td><td>LEFT</td><td>1369</td></tr><tr><td>126+02</td><td></td><td>167+45</td><td>LEFT</td><td>4143</td></tr><tr><td>133+90</td><td></td><td>167+90</td><td>RIGHT</td><td>3400</td></tr><tr><td>168+60</td><td></td><td>180+00</td><td>LEFT</td><td>1140</td></tr><tr><td>168+14</td><td></td><td>180+00</td><td>RIGHT</td><td>1186</td></tr><tr><td colspan="4">TOTAL =</td><td>21076.0</td></tr></table>				STATION	TO	STATION	LOCATION	FOOT	72+40		98+45	RIGHT	2605	72+40		98+32	LEFT	2592	98+89		111+45	RIGHT	1256	98+76		111+45	LEFT	1269	111+89		133+05	RIGHT	2116	111+89		125+58	LEFT	1369	126+02		167+45	LEFT	4143	133+90		167+90	RIGHT	3400	168+60		180+00	LEFT	1140	168+14		180+00	RIGHT	1186	TOTAL =				21076.0	<div>Curve #1</div> <div>TANGENT RUNOFF BEGINS STA.88+25.54 S.E. RUNOFF BEGINS STA.88+5354 FULL S.E. BEGINS STA. 90+04.54 FULL S.E. ENDS STA. 96+20.97 S.E. RUNOFF ENDS STA.97+71.97 TANGENT RUNOFF ENDS STA. 97+99.97 S.E. RATE = 0.080 FT/FT</div> <div>Curve #2</div> <div>TANGENT RUNOFF BEGINS STA. 113+01.83 S.E. RUNOFF BEGINS STA. 113+29.83 FULL S.E. BEGINS STA. 114+80.83 FULL S.E. ENDS STA. 121+24.05 S.E. RUNOFF ENDS STA. 122+75.05 TANGENT RUNOFF ENDS STA. 123+03.05 S.E. RATE = 0.080 FT/FT</div>	
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CONTRACT	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
95904	FAS 1804	19-00126-00-RS	LAWRENCE	4	3



EXISTING TYPICAL SECTION

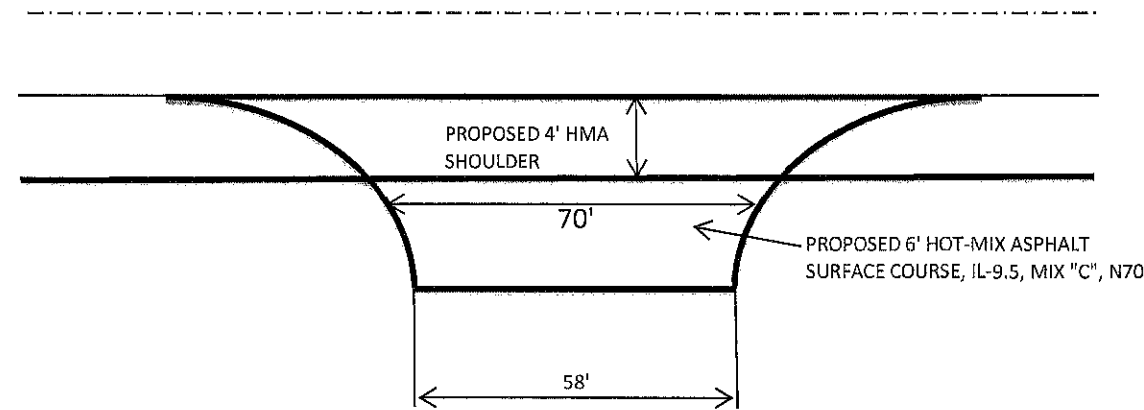
- A Existing 3 1/2" Oil and Chip
- B Existing 2" Bituminous Surface Road Mix (Class B)
- C Existing Base



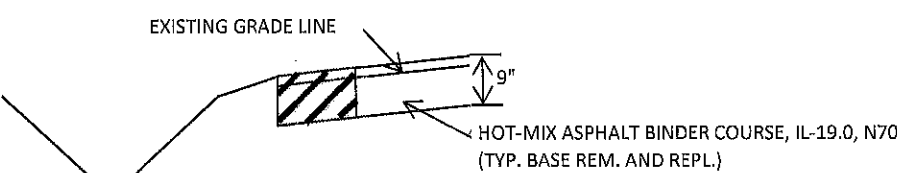
PROPOSED TYPICAL SECTION

- 1 Proposed 1-3/4" Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N70
- 2 Proposed 1-1/4" Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N70
- 3 Proposed 8" Hot-Mix Asphalt Shoulders

STATION 168+05 LEFT SIDEROAD DETAIL



DETAIL OF PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL

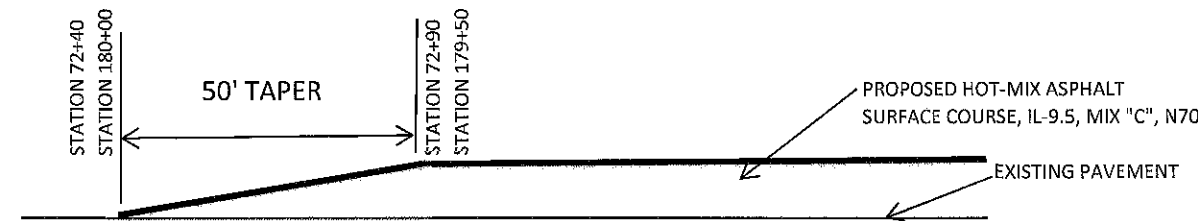


THE SCHEDULE ABOVE REFLECTS APPROXIMATE LOCATION AND ESTIMATED QUANTITIES. THE ACTUAL AREAS SHALL BE LOCATED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE BELOW QUANTITY IS INCLUDED IN PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL

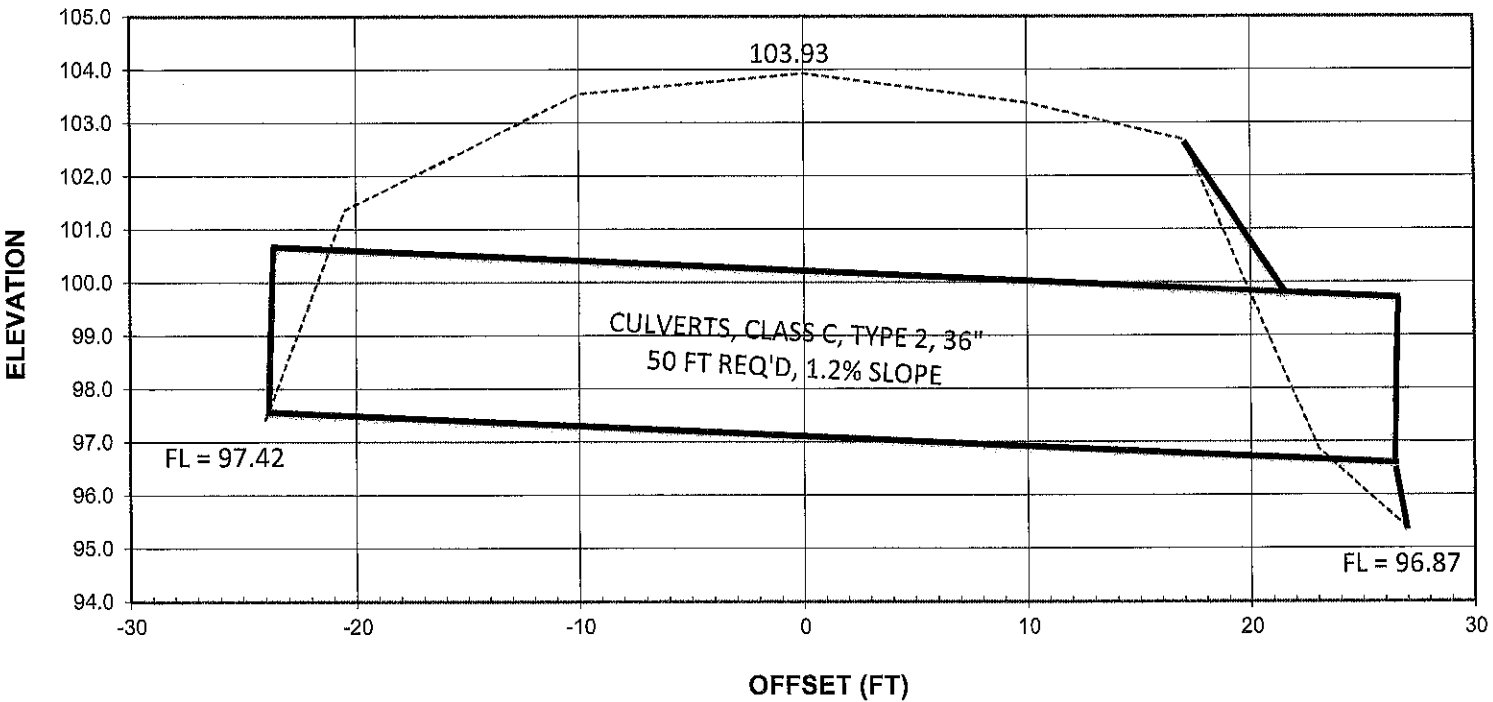
STATION	TO	STATION	LOCATION	WIDTH	SQ YD	TONS
74+40		74+52	ENTIRE ROAD	25	33.3	17
88+00		88+20	CENTER	4	8.9	5
175+86		PIPE CULVERT	ACROSS ROAD	54	36	18
176+55		PIPE CULVERT	ACROSS ROAD	24	16	8
TOTAL =					94.2	48.0

TRANSITION DETAIL



CONTRACT	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
95904	FAS 805	19-00127-00-RS	LAWRENCE	4	4

Sta 176+55 AR Pipe



SCHEDULE OF TRENCH BACKFILL

STATION	TO	STATION	LOCATION	LENGTH	CU YD
175+86		PIPE CULVERT	ACROSS ROAD	54.0'	85
176+55		PIPE CULVERT	ACROSS ROAD	24.0'	21
TOTAL =					106.0

Sta 175+86 AR Pipe

