

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	1
		ILLINOIS	CONTRACT NO. 70755	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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3 - 6	SUMMARY OF QUANTITIES
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22	GUARDRAIL DETAILS SHEET
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46 - 62	CROSS SECTIONS SHEETS

P-95-012-09

PROPOSED
HIGHWAY PLANS

FAS ROUTE 1517 (US 150)
SECTION 11CR
PROJECT STP-WRNS(916)
CULVERT REPLACEMENT
PIATT COUNTY

CURRENT TRAFFIC DATA FOR F.A.S. 1517
2020 ADT = 1,600
P.U. = 90.0%
S.U. = 5.0%
M.U. = 5.0%

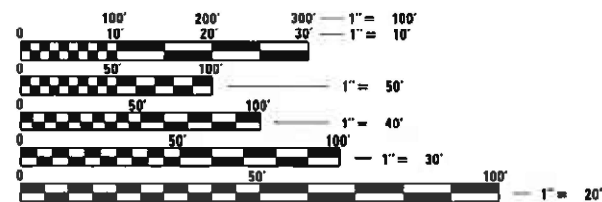
DESIGN DESIGNATION: N/A



FAS 1517 SECTION 11CR
LOCATION 1
BEGIN STA 81+99.15
END STA 82+37.15

CULVERT TO BE
TERMINATED
EX SN 074-8053 AT
STA 128+72.09
60° LT FORWARD SKEW
SINGLE 6'X2'-6"
REINFORCED CONC
BOX CULV

FAS 1517 SECTION 11CR
LOCATION 2
BEGIN STA 129+13.67
END STA 129+47.17



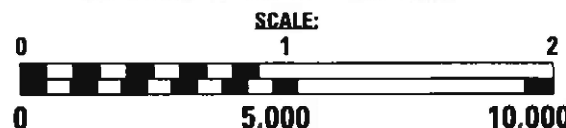
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811 BLUE RIDGE TOWNSHIP

CULVERT REPLACEMENT
EX SN 074-8052 AT STA 82+18.15
SINGLE 8'X7'-6" 'V-BOTTOM' REINFORCED CONC BOX CULV
PR SN 074-8066 AT STA 82+18.15
SINGLE 12'X9' REINFORCED CONC BOX CULV

CULVERT REPLACEMENT
EX SN 074-8054 AT STA 129+30.42
SINGLE 72" DIA CMP
PR SN 074-8067 AT STA 129+30.42
SINGLE 9'X9' REINFORCED CONC BOX CULV

GROSS LENGTH = 71.5 FT. = 0.014 MILE
NET LENGTH = 71.5 FT. = 0.014 MILE



PROJECT ENGINEER: JASON W. STULTS, P.E.
PROJECT MANAGER: DAVID F. JAYME, P.E.
DESIGNER: RAFAEL T. MONJARDIN
PHONE: (217) 465-4181
CONTRACT NO. 70755

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 10/20/21
Yenela Gammattson REGIONAL ENGINEER

December 10, 2021
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

December 10, 2021
Stephen M. Lewis DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK: F.A.S. 1517 (US 150)
 RURAL 2L 2W
 MAJOR COLLECTOR
 SN 074-8066 & 074-8067
 STA 81+99.15 TO STA 129+47.17
 PIATT COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	565.0
20300100	CHANNEL EXCAVATION	CU YD	330.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	334.0
21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	154.0
25000310	SEEDING, CLASS 4	ACRE	0.5
25000322	SEEDING, CLASS 5A	ACRE	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45.0
25100115	MULCH, METHOD 2	ACRE	0.5
25100630	EROSION CONTROL BLANKET	SQ YD	478.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	125.0
28000305	TEMPORARY DITCH CHECKS	FOOT	318.0
28000400	PERIMETER EROSION BARRIER	FOOT	1,257.0

* DENOTES SPECIALTY ITEM

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PLOT DATE = 10/19/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70755	

SUMMARY OF QUANTITIES

LOCATION OF WORK: F.A.S. 1517 (US 150)
 RURAL 2L 2W
 MAJOR COLLECTOR
 SN 074 8066 & 074-8067
 STA 81+99.15 TO STA 129+47.17
 PIATT COUNTY
 FUNDING BREAKOUT: 80% FEDERAL / 20% STATE
 CONSTRUCTION TYPE CODE: 0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
28100107	STONE RIPRAP, CLASS A4	SQ YD	474.0
28200200	FILTER FABRIC	SQ YD	474.0
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	9.0
42000060	WELDED WIRE REINFORCEMENT	SQ YD	255.0
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	255.0
44201298	DOWEL BARS 1 1/4"	EACH	42.0
44213200	SAW CUTS	FOOT	96.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	282.0
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0
50105220	PIPE CULVERT REMOVAL	FOOT	123.0
51500100	NAME PLATES	EACH	2.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2.0
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2.0

* DENOTES SPECIALTY ITEM

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DRAWN -	REVISED -	1517				11CR	PIATT	62	4	
PLOT SCALE = 40,0016 * / in.	CHECKED -	REVISED -				CONTRACT NO. 70755				
PLOT DATE = 10/18/2021	DATE -	REVISED -				SCALE:	SHEET 2	OF 4 SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES

LOCATION OF WORK: F.A.S. 1517 (US 150)
 RURAL 2L 2W
 MAJOR COLLECTOR
 SN 074-8066 & 074-8067
 STA 81+99.15 TO STA 129+47.17
 PIATT COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
54010909	PRECAST CONCRETE BOX CULVERTS 9' X 9'	FOOT	37.0
54011209	PRECAST CONCRETE BOX CULVERTS 12' X 9'	FOOT	37.0
54262715	METAL FLARED END SECTIONS 15"	EACH	2.0
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	34.0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	121.0
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	550.0
* 63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	75.0
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8.0
63200310	GUARDRAIL REMOVAL	FOOT	957.5
63500105	DELINEATORS	EACH	2.0
* 66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0
67100100	MOBILIZATION	L SUM	1.0

* DENOTES SPECIALTY ITEM

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PLOT DATE = 10/18/2021	CHECKED -	REVISED -		SCALE:		SHEET 3 OF 4 SHEETS		STA. TO STA.		CONTRACT NO. 70755
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

SUMMARY OF QUANTITIES

LOCATION OF WORK: F.A.S. 1517 (US 150)
 RURAL 2L 2W
 MAJOR COLLECTOR
 SN 074-8066 & 074-8067
 STA 81+99.15 TO STA 129+47.17
 PIATT COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8.0
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16.0
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	121.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0
Z0023500	FILLING EXISTING CULVERTS	CU YD	35.0
Z0029604	HEADWALL REMOVAL	EACH	2.0
Z0038700	PERMANENT BENCH MARKS	EACH	2.0

* DENOTES SPECIALTY ITEM

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	DRAWN -	REVISED -
PLOT SCALE = 40,0003 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

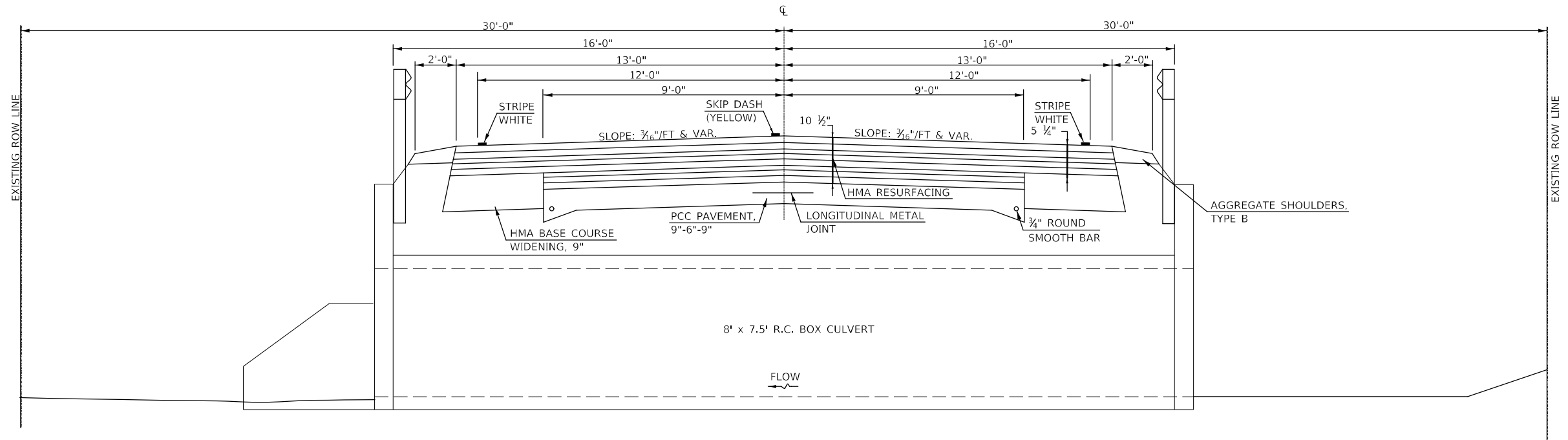
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	6
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

Ⓐ EXISTING TYPICAL CROSS SECTION

S.N. 074-8052 8'x7.5' R.C. Box Culvert - STATION 82+18.15

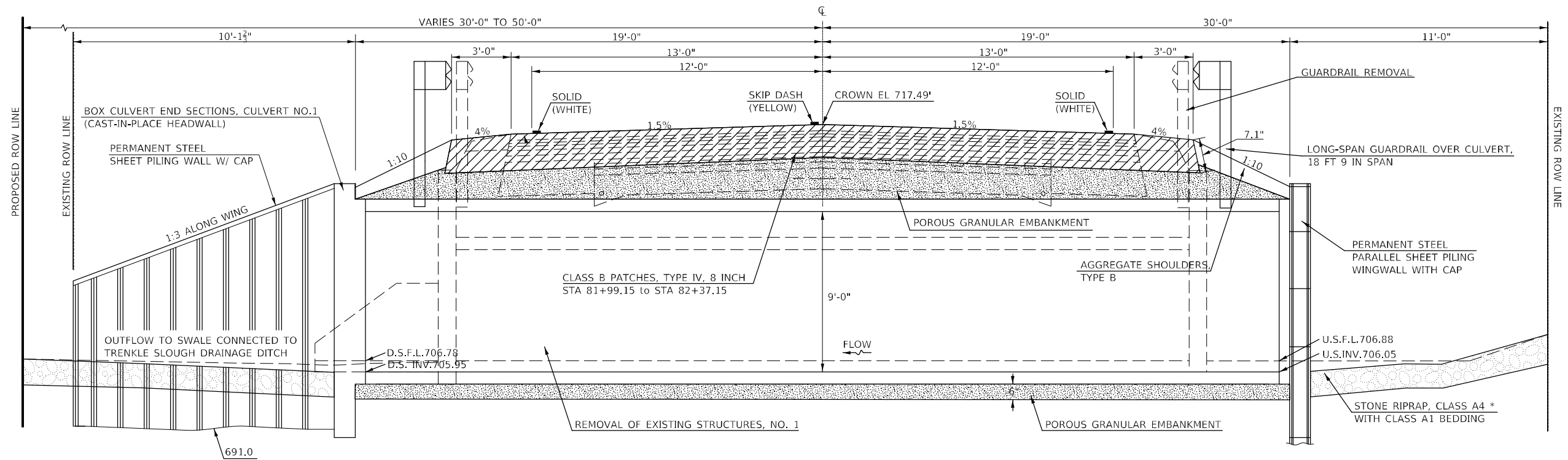
LOCATION 1



Ⓛ PROPOSED TYPICAL CROSS SECTION

Ⓛ STATION 81+89.03 TO STATION 82+47.28 Ⓛ
SN 074-8066 12'x9'x40' REINFORCED CONCRETE BOX CULVERT - CL STATION 82+18.15

LOCATION 1



NOTE: NOT DRAWN TO SCALE

*SEE LOC 1 DETAILS
CLASS B PATCHES, TYPE IV, 8 INCH

USER NAME = monjardhrt	DESIGNED -	REVISED -
PLOT SCALE = 40,1640' / in.	DRAWN -	REVISED -
PLOT DATE = 10/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

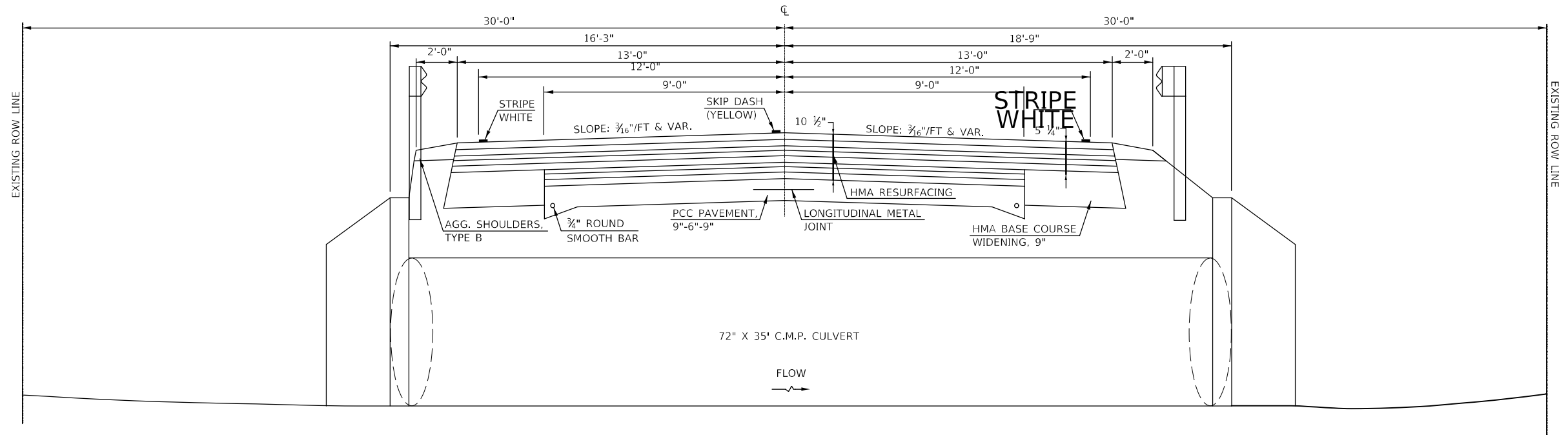
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1517	11CR	PIATT	62	7
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

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B EXISTING TYPICAL CROSS SECTION

S.N. 074-8054 72" x 35' CMP CULVERT - STATION 129+30.42

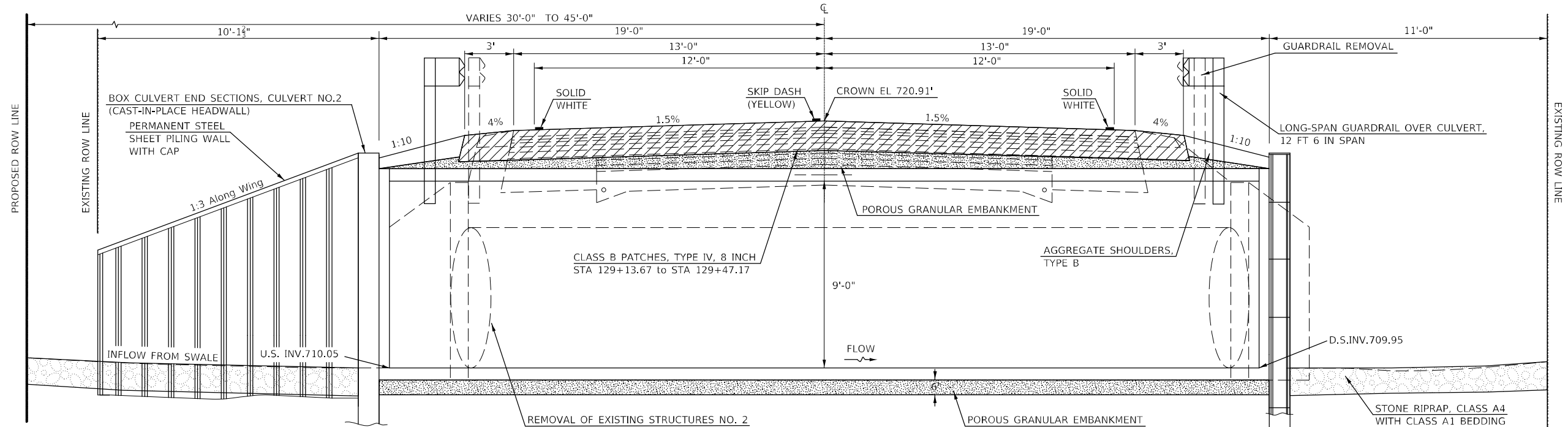
LOCATION 2



2 PROPOSED TYPICAL CROSS SECTION

③ STATION 129+02.79 TO STATION 129+58.04 ③
SN 074-8067 9'x9' REINFORCED CONCRETE BOX CULVERT - CL STATION 129+30.42

LOCATION 2



CLASS B PATCHES, TYPE IV, 8 INCH

NOTE: NOT DRAWN TO SCALE

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PLOT DATE = 10/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

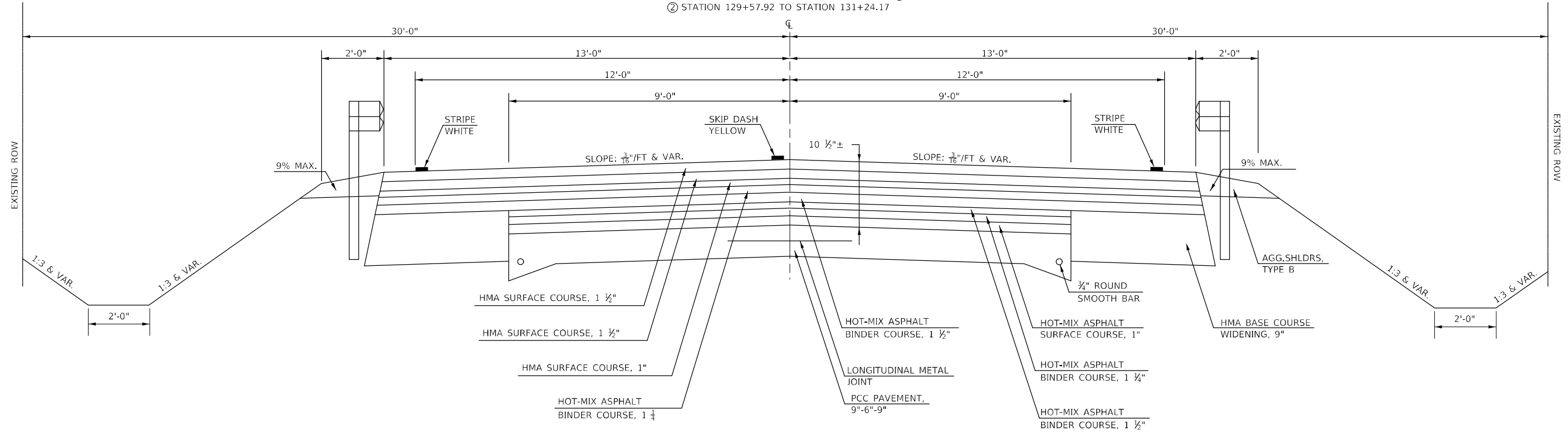
TYPICAL CROSS SECTIONS

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	8
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

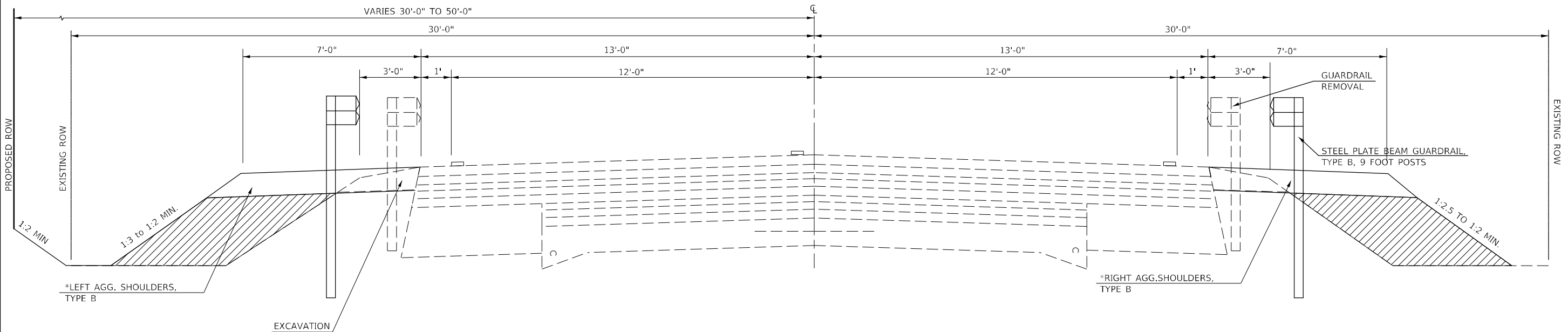
③ EXISTING TYPICAL CROSS SECTION

STATION 80+21.28 TO STATION 81+89.15 ①
 ① STATION 82+47.15 TO STATION 84+15.03
 STATION 127+36.67 TO STATION 129+02.92 ②
 ② STATION 129+57.92 TO STATION 131+24.17



③ PROPOSED TYPICAL CROSS SECTION

STATION 80+21.28 TO STATION 81+89.03 ①
 ① STATION 82+47.28 TO STATION 84+15.03
 STATION 127+36.67 TO STATION 129+02.79 ②
 ② STATION 129+58.04 TO STATION 131+24.17



*NOTES: SEE SCHEDULES FOR VARIOUS WIDTHS OF AGG SHOULDERS

EARTH EMBANKMENT NOTE: NOT DRAWN TO SCALE

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 PLOT DATE: 10/20/2021

USER NAME = monjerdinrt	DESIGNED -	REVISED -
DRAWN -	REVISED -	
CHECKED -	REVISED -	
DATE -	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

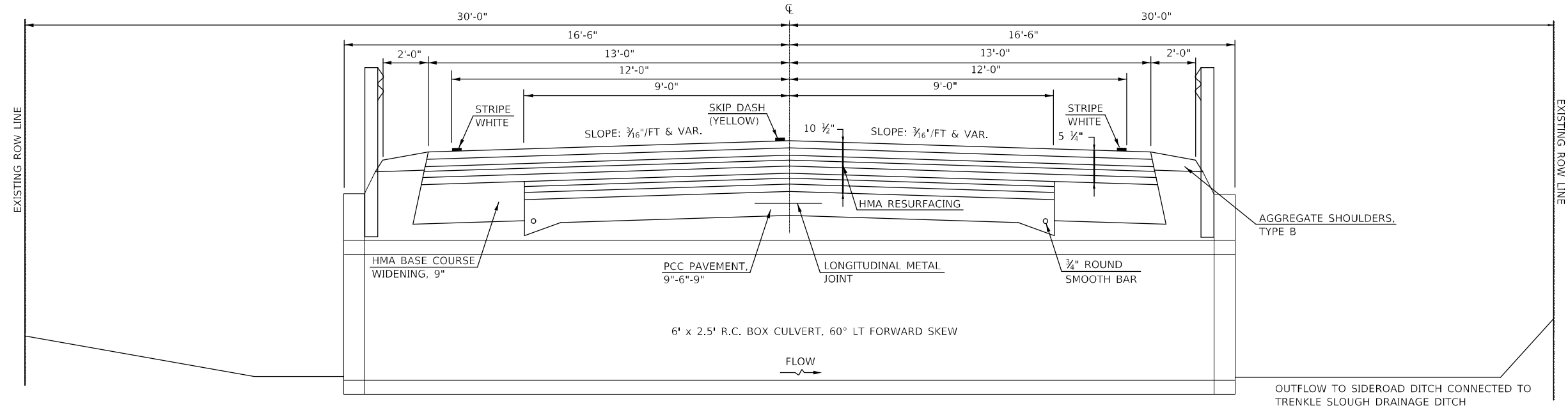
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	9
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

D EXISTING TYPICAL CROSS SECTION

6'x2.5' R.C. Box Culvert 60° Left Forward Skew - STATION 128+15.00

LOCATION 3

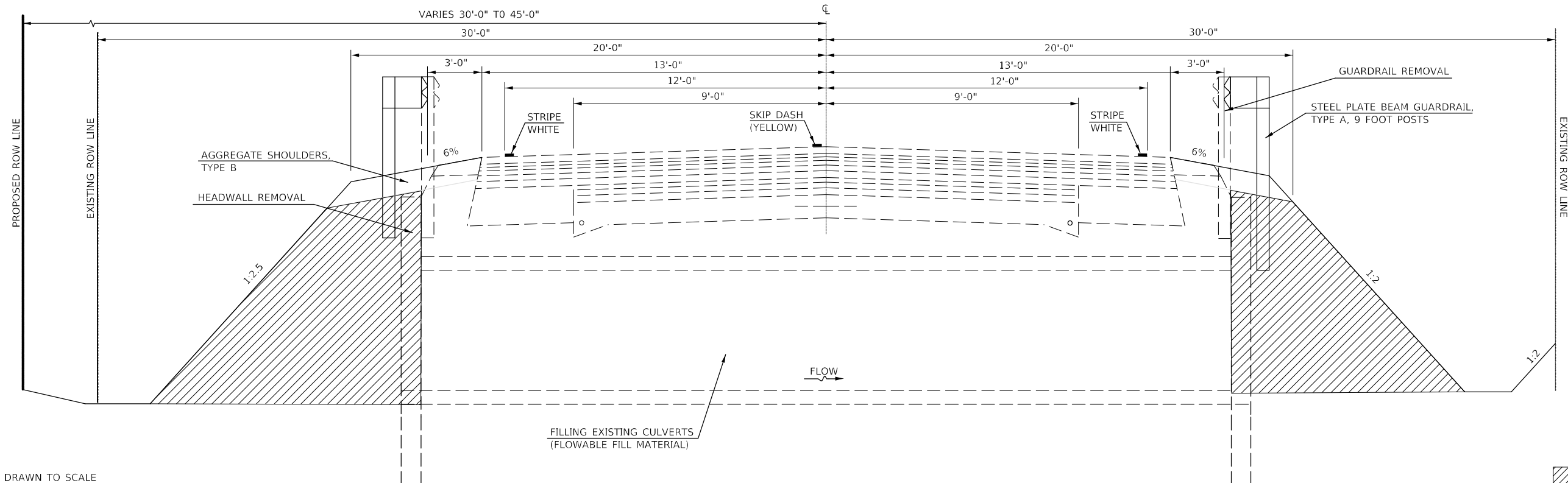


OUTFLOW TO SIDEROAD DITCH CONNECTED TO TRENKLE SLOUGH DRAINAGE DITCH

4 PROPOSED TYPICAL CROSS SECTION

SN 074-8053 BOX CULVERT TERMINATION - STATION 128+15.00

LOCATION 3



NOTE: NOT DRAWN TO SCALE

EARTH EMBANKMENT

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PLOT SCALE = 40.0633" / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	10
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

SCHEDULES OF QUANTITIES

STRUCTURE AND HEADWALL REMOVAL SCHEDULE

CULVERT LOCATION	DESCRIPTION	STATION	50100300	50100400	Z0029604	Z0023500
			REMOVAL OF EXISTING STRUCTURES NO.1	REMOVAL OF EXISTING STRUCTURES NO.2	HEADWALL REMOVAL	FILLING EXISTING CULVERTS
			EACH	EACH	EACH	CU YD
1	SN 074-8066	82+18.15	1.0			
2	SN 074-8067	129+30.42		1.0		
3	SN 074-8053	128+72.08			2.0	35.0
TOTAL FAS 1517:			1.0	1.0	2.0	35.0
ROUNDED TOTAL:			1.0	1.0	2.0	35.0

PRECAST CONCRETE BOX CULVERT SCHEDULE

LOCATION/ CULVERT	STATION	54011209	54010909	54001001	54001002
		PRECAST CONCRETE BOX CULVERT 12' X 9'	PRECAST CONCRETE BOX CULVERTS 9' X 9'	BOX CULVERT END SECTIONS, CULVERT NO. 1	BOX CULVERT END SECTIONS, CULVERT NO. 2
		FOOT	FOOT	EACH	EACH
LOC 1 SN 074-8066	82+18.15	37.00		2.00	
LOC 2 SN 074-8067	129+30.42		37.00		2.00
TOTAL FAS 1517:		37.00	37.00	2.00	2.00
ROUNDED TOTAL:		37.0	37.0	2.0	2.0

MEMBRANE WATERPROOFING FOR BURIED STRUCTURES SCHEDULE

LOCATION	STRUCTURE	STATION	TOP WIDTH FT	LENGTH FT	SIDE 1 FT	SIDE 2 FT	X0900064	59100100
							MEMBRANE WATERPROOFING SYTEM FOR BURIED STRUCTURES	GEOCOMPOSITE WALL DRAIN
							SQ YD	SQ YD
LOC-1	SN 074-8066	82+18.00	14.0	38.0	1.0	1.0	68.0	68.0
LOC-2	SN 074-8067	129+30.42	10.5	38.0	1.0	1.0	53.0	53.0
TOTAL FAS 1517:							121.0	121.0
ROUNDED TOTAL:							121.0	121.0

RIPRAP SCHEDULE

LOCATION/ CULVERT	STATION	TO	STATION	OFFSET (LT/RT)	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	28100107	28200200
								STONE RIPRAP A4	FILTER FABRIC
								SQ YD	SQ YD
LOC 1 SN 074-8066	81+89.03	TO	82+47.28	LT	58.25	30	1,747.50	194.17	194.17
LOC 1 SN 074-8066	81+89.03	TO	82+47.28	RT	58.25	10	582.50	64.72	64.72
LOC 2 SN 074-8067	129+02.79	TO	129+58.04	LT	55.25	25	1,381.25	153.47	153.47
LOC 2 SN 074-8067	129+02.79	TO	129+58.04	RT	55.25	10	552.50	61.39	61.39
TOTAL FAS 1517:								473.75	473.75
ROUNDED TOTAL:								474.0	474.0

NOTE: SEE PLAN & PROFILE, AND CROSS SECTIONS SHEETS FOR DETAILS

EXPLORATION TRENCH, 84" DEPTH SCHEDULE

LOCATION	STATION	TO	STATION	LENGTH FT	OFFSET FT*	21301084
						EXPLORATION TRENCH, 84" DEPTH
LOC 1 - EB	81+89.03	TO	82+47.28	58.3	24.2	58.3
LOC 1 - WB	82+37.28	TO	82+47.28	10.0	31.2	10.0
LOC 1 - WB	81+89.03	TO	81+79.03	10.0	31.2	10.0
LOC 2 - EB	129+02.79	TO	129+58.04	55.3	24.2	55.3
LOC 2 - WB	129+68.04	TO	129+58.04	10.0	31.2	10.0
LOC 2 - WB	129+02.79	TO	128+92.79	10.0	31.2	10.0
TOTAL:						153.6
ROUNDED TOTAL:						154.0

* MEASURED IN CADD, SEE PLAN & PROFILE SHEET

POROUS GRANULAR EMBANKMENT SCHEDULE

LOCATION	STATION	TO	STATION	20700220
				POROUS GRANULAR EMBANKMENT
SN 074-8066	81+99.40	TO	82+36.90	173.00
SN 074-8067	129+13.38	TO	129+47.46	161.00
TOTAL FAS 1517:				334.00
ROUNDED TOTAL:				334.0

SEE SHEETS 28 & 35, POROUS GRANULAR EMBANKMENT DETAIL

CHANNEL EXCAVATION SCHEDULE

CULVERT LOCATION	DESCRIPTION	STATION	TO	STATION	OFFSET LT/RT	20300100
						CHANNEL EXCAVATION
1	SN 074-8066	81+99.15	TO	82+35.96	LT	114.65
1	SN 074-8066	81+99.86	TO	82+36.44	RT	66.71
2	SN 074-8067	129+13.67	TO	127+47.17	LT	98.52
2	SN 074-8067	129+20.00	TO	129+45.00	RT	50.35
TOTAL FAS 1517:						330.23
ROUNDED TOTAL:						330.0

NOTE: SEE CROSS SECTIONS SHEETS FOR DETAILS

FILLING EXISTING CULVERTS SCHEDULE

LOCATION	STATION	LENGTH FT	SPAN FT	RISE FT	Z0023500
					FILLING EXISTING CULVERTS
					CU YD
SN 074-8053	128+72.09	62.0	6.0	2.5	34.4
TOTAL FAS 1517:					34.4
ROUNDED TOTAL:					35.0

CLASS B PATCHING SCHEDULE

CULVERT LOCATION	STRUCTURE	STATION	TO	STATION	42000060	44200944	44213200	44201298
					WELDED WIRE REINFORCEMENT	CLASS B PATCHES, TYPE IV, 8"	SAW CUTS	DOWEL BARS 1 1/4"
					SQ YD	SQ YD	FOOT	EACH
LOC 1	SN 074-8066	81+99.15	TO	82+37.15	135.1	135.1	64.00	28
LOC 2	SN 074-8067	129+13.67	TO	129+47.17	119.1	119.1	32.00	14
TOTAL FAS 1517:					254.2	254.2	96.0	42.0
ROUNDED TOTAL:					255.0	255.0	96.0	42.0

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	11
CONTRACT NO. 70755				
ILLINOIS		FED. AID PROJECT		

MODEL: \\MODELS\MH\MS... FILE NAME: ...

SCHEDULES OF QUANTITIES

AGGREGATE SURFACE COURSE, TYPE B, SCHEDULE

LOCATION	SIDE	FROM STATION	TO STATION	IFNGTH	WIDTH	40200900
				FT	FT	AGGREGATE SURFACE COURSE, TYPE B
PR FIELD ENTRANCE 1	LT	84+57.86	84+85.43	27.57	17.25	8.81
TOTAL FAS 1517:						8.81
ROUNDED TOTAL:						9.00

NOTE: 6" THICKNESS, SEE PLAN & PROFILE, AND CROSS SECTIONS SHEETS

PERMANENT BENCH MARKS SCHEDULE

LOCATION	STRUCTURE	STATION	Z0038700
			PERMANENT BENCH MARKS
			EACH
LOCATION 1	SN 074-8066	82+05.65	1.0
LOCATION 2	SN 074-8067	129+20.92	1.0
TOTAL FAS 1517:			2.0
ROUNDED TOTAL:			2.0

FURNISHING AND ERECTING ROW MARKERS SCHEDULE

LOCATION	STRUCTURE	STATION	LT OFFSET	66600105
			FT	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
				EACH
LOCATION 1	SN 074-8066	81+25.00	30.0	1.0
LOCATION 1	SN 074-8066	81+80.58	50.0	1.0
LOCATION 1	SN 074-8066	82+50.00	50.0	1.0
LOCATION 1	SN 074-8066	83+10.00	30.0	1.0
LOCATION 2	SN 074-8067	128+20.00	30.0	1.0
LOCATION 2	SN 074-8067	129+00.00	45.0	1.0
LOCATION 2	SN 074-8067	129+60.00	45.0	1.0
LOCATION 2	SN 074-8067	130+40.00	30.0	1.0
TOTAL FAS 1517:				8.0
ROUNDED TOTAL:				8.0

NOTE: SEE ROW PLAN SHEETS

PIPE CULVERT SCHEDULE

LOCATION	SIDE	FROM STATION	TO STATION	OFFSET (FT)	50105220	542D0220	54262715
					PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1, 15"	METAL FLARED END SECTIONS, 15"
LOC 2 - SN 074-8067	LT	129+34.85	129+72.13	23.59	37.28		
LOC 2 - SN 074-8067	RT	129+36.75	129+56.09	27.00	19.34		
LOC 1 - FIELD ENTRANCE	LT	83+23.28	83+66.95	22.13	43.67		
LOC 2 - FIELD ENTRANCE	LT	130+08.79	130+31.32	25.52	22.53		
LOC 1 PR FIELD ENTRANCE	LT	84+54.60	84+88.61	20.00		34.0	2.0
TOTAL FAS 1517:					122.82	34.0	2.0
ROUNDED TOTAL:					123.00	34.0	2.0

AGGREGATE SHOULDER, TYPE B SCHEDULE

LOCATION/ CULVERT	DIRECTION	STATION	TO	STATION	LENGTH	WIDTH*	AREA	VOLUME**	48101200
					FT	FT	SQ FT	CU YD	AGGREGATE SHOULDERS, TYPE B
LOC 1 - SN 074-8066	EB	79+87.23	TO	80+11.28	24.05	5.0	120.25	2.2	4.01
LOC 1 - SN 074-8066	EB	80+11.28	TO	81+99.15	187.87	7.0	1,315.09	24.4	43.84
LOC 1 - SN 074-8066	EB	81+99.15	TO	82+37.15	38.00	6.0	228.00	4.2	7.60
LOC 1 - SN 074-8066	EB	82+37.15	TO	83+12.53	75.38	4.5	339.21	6.3	11.31
LOC 1 - SN 074-8066	EB	83+12.53	TO	83+36.79	24.26	5.0	121.30	2.2	4.04
LOC 1 - SN 074-8066	WB	84+49.31	TO	84+25.03	24.28	5.0	121.40	2.2	4.05
LOC 1 - SN 074-8066	WB	84+25.03	TO	82+37.15	187.88	7.0	1,315.16	24.4	43.84
LOC 1 - SN 074-8066	WB	82+37.15	TO	81+99.15	38.00	6.0	228.00	4.2	7.60
LOC 1 - SN 074-8066	WB	81+99.15	TO	81+23.78	75.37	7.0	527.59	9.8	17.59
LOC 1 - SN 074-8066	WB	81+23.78	TO	80+99.78	24.00	4.5	108.00	2.0	3.60
SUB- TOTAL LOC 1:								81.9	147.47
LOC 2 - SN 074-8067	EB	127+20.00	TO	127+26.43	6.43	5.5	35.37	0.7	1.18
LOC 2 - SN 074-8067	EB	127+26.43	TO	127+61.67	35.24	7.0	246.68	4.6	8.22
LOC 2 - SN 074-8067	EB	127+61.67	TO	127+86.86	25.19	6.0	151.14	2.8	5.04
LOC 2 - SN 074-8067	EB	127+86.86	TO	129+13.67	126.81	4.5	570.64	10.6	19.02
LOC 2 - SN 074-8067	EB	129+13.67	TO	129+47.17	33.50	3.0	100.50	1.9	3.35
LOC 2 - SN 074-8067	EB	129+47.17	TO	130+21.67	74.50	7.0	521.50	9.7	17.38
LOC 2 - SN 074-8067	EB	130+21.67	TO	130+51.91	30.24	5.0	151.20	2.8	5.04
LOC 2 - SN 074-8067	WB	131+64.22	TO	131+34.17	30.05	5.0	150.25	2.8	5.01
LOC 2 - SN 074-8067	WB	131+34.17	TO	129+47.17	187.00	7.0	1,309.00	24.2	43.63
LOC 2 - SN 074-8067	WB	129+47.17	TO	129+13.67	33.50	3.5	117.25	2.2	3.91
LOC 2 - SN 074-8067	WB	129+13.67	TO	128+39.17	74.50	7.0	521.50	9.7	17.38
LOC 2 - SN 074-8067	WB	128+39.17	TO	128+09.24	29.93	5.0	149.65	2.8	4.99
SUB- TOTAL LOC 2:								74.5	134.16
TOTAL FAS 1517:								156.5	281.62
ROUNDED TOTAL:									282.0

*MEASURED IN CADD, SEE CROSS SECTIONS SHEETS

**THICKNESS = 6"

DELINEATOR SCHEDULE

CULVERT LOCATION	STRUCTURE	STATION	OFFSEI FT	63500105
				DELINEATORS*
LOC 1	SN 074-8066	84+51.96	20' LT	1.0
LOC 1	SN 074-8066	84+91.47	20' LT	1.0
TOTAL FAS 1517:				2.0
ROUNDED TOTAL:				2.0

*MARKERS FOR METAL END SECTIONS OF LOC 1 FIELD ENTRANCE

MODEL: S:\MODEL\MH\15...
FILE: 151115...
PROJECT: 05101551...
OFFICE: 05101551...
DATE: 10/18/2021

USER NAME = monjardinnrc	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0133' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	12
CONTRACT NO. 70755				
ILLINOIS		FED. AID PROJECT		

SCHEDULES OF QUANTITIES

FARTHWORK SCHEDULE

LOCATION / CULVERT	STATION	TO	STATION	20200100	ADJUSTED EARTH EX ¹	EMBANKMENT (FILL)	EARTHWORK
				EARTH EXCAVATION (CUT)			BALANCE WASTE(+) SHORTAGE (-)
				CU YD	CU YD	CU YD	CU YD
LOCATION 1							
SN 074-8066	80+99.78	TO	81+99.15	24.14	18.11	53.09	-34.99
SN 074-8066	82+37.15	TO	84+25.03	76.15	57.11	68.61	-11.50
SN 074-8066	79+87.28	TO	81+99.15	36.27	27.20	10.16	17.04
SN 074-8066	82+37.15	TO	83+30.03	28.12	21.09	14.17	6.92
LOCATION 2							
SN 074-8067	128+09.17	TO	129+13.67	108	81.00	57.64	23.36
SN 074-8067	129+47.17	TO	131+64.17	185.2	138.90	38.23	100.67
SN 074-8067	127+25.00	TO	129+25.17	66.7	50.03	88.60	-38.58
SN 074-8067	129+47.17	TO	130+21.67	37.06	27.80	10.65	17.15
LOC 1 F.E.	84+57.86	TO	84+85.43	1.95	1.46	8.11	-6.65
TOTAL FAS 1517:				563.59	422.69	349.26	73.43
ROUNDED TOTAL:				565.00			74.00

NOTE: SEE PLAN & PROFILE AND CROSS SECTIONS SHEETS

1. Shrinkage factor used is 25%

TEMPORARY DITCH CHECK SCHEDULE

CULVERT LOCATION	STRUCTURE	STATION	LT/RT	28000305
				TEMPORARY DITCH CHECKS
				FOOT
LOC 1	074-8066	81+56.22	LT	22.00
LOC 1	074-8066	81+80.50	LT	28.00
LOC 1	074-8066	82+51.06	LT	28.00
LOC 1	074-8066	82+63.82	LT	28.00
LOC 1	074-8066	82+78.50	LT	18.00
LOC 1	074-8066	83+19.13	LT	14.00
LOC 1	074-8066	83+82.79	LT	12.00
LOC 1	074-8066	81+89.00	RT	10.00
LOC 1	074-8066	82+48.00	RT	10.00
SUB-TOTAL LOC 1:				170.00
LOC 2	074-8067	128+69.14	LT	26.00
LOC 2	074-8067	128+92.20	LT	28.00
LOC 2	074-8067	129+81.29	LT	18.00
LOC 2	074-8067	130+51.56	LT	12.00
LOC 2	074-8067	131+63.50	LT	10.00
LOC 2	074-8067	127+38.01	RT	10.00
LOC 2	074-8067	128+09.47	RT	10.00
LOC 2	074-8067	128+33.39	RT	12.00
LOC 2	074-8067	128+62.32	RT	12.00
LOC 2	074-8067	129+60.00	RT	10.00
SUB-TOTAL LOC 2:				148.00
TOTAL FAS 1517:				318.00
ROUNDED TOTAL:				318.0

SEE EROSION & SEDIMENT CONTROL PLAN FOR DETAILS

SEEDING SCHEDULE

CULVERT	STATION	TO	STATION	AREA TO BE SEEDED (SQ FT)*	25000310	25000322	25000400	25000500	25000600	25100115	28000250	
					SEEDING CLASS 4 (ACRE)	SEEDING CLASS 5A (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORU S FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	TEMPORARY EROSION CONTROL SEEDING** (ACRE)	
SN 074-8066	80+99.78	TO	81+89.03	LT	2,471.7	0.06	0.06	5.11	5.11	5.11	0.06	17.02
SN 074-8066 ¹	81+89.03	TO	82+47.28	LT	4,377.0	0.04	0.04	3.60	3.60	3.60	0.04	10.05
SN 074-8066	82+47.28	TO	84+25.03	LT	3,105.7	0.07	0.07	6.42	6.42	6.42	0.07	21.39
SN 074-8066	79+87.28	TO	81+89.03	RT	2,038.5	0.05	0.05	4.21	4.21	4.21	0.05	14.04
SN 074-8066	81+89.03	TO	82+47.28	RT	638.4	0.01	0.01	1.32	1.32	1.32	0.01	4.40
SN 074-8066 ²	82+47.28	TO	83+30.03	RT	1,011.0							2.32
SN 074-8067	129+09.17	TO	129+02.79	LT	1,718.9	0.04	0.04	3.55	3.55	3.55	0.04	11.84
SN 074-8067 ¹	129+02.79	TO	129+58.04	LT	1,397.4							3.21
SN 074-8067	129+58.04	TO	130+21.67	LT	2,597.5	0.06	0.06	5.37	5.37	5.37	0.06	17.89
SN 074-8067	127+20.00	TO	129+02.79	RT	2,098.9	0.05	0.05	4.34	4.34	4.34	0.05	14.45
SN 074-8067 ¹	129+02.79	TO	129+58.04	LT	592.8							1.36
SN 074-8067	129+58.04	TO	130+52.00	RT	963.0	0.02	0.02	1.99	1.99	1.99	0.02	6.63
TOTAL FAS 1517:						0.40	0.40	35.90	35.90	35.90	0.40	124.60
ROUNDED TOTAL:						0.50	0.50	45.00	45.00	45.00	0.50	125.00

NOTE 1: RIPRAP AREA PLUS T.E. AREA - 1 APP TEMP EROSION CONTROL SEEDING, SEEDING AREA = T.E. ONLY

NOTE 2: RIPRAP AREAS- 1 APP TEMP EROSION CONTROL SEEDING

*NOTE: MEASURED IN CAD

**NOTE: 100 LB PER ACRE AT 3 APPLICATIONS, EXCEPT RIPRAP AREAS (1 APP)

MODEL: I:\MODEL\MHFS
FILE NAME: I:\Public\paw_bentley.com\PIV\DOT\Documents\DOT Office\Dir\Dir: S:\Project\0570755\CADD\DATA\CADD\Sheet\0570755-01-Schedules of Quantities.dgn

USER NAME = monjardlnt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0014 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	13
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

SCHEDULES OF QUANTITIES

PERIMETER EROSION BARRIER SCHEDULE

LOCATION	STRUCTURE	STATION	TO	STATION	OFFSET	28000400
						PERIMETER EROSION BARRIER
						FOOT
LOC 1	SN 074-8066	80+88.68	TO	81+25.15	30' LT	36.47
LOC 1	SN 074-8066	81+25.15	TO	81+80.58	30' TO 50' LT	59.31
LOC 1	SN 074-8066	81+71.90	TO	81+80.58	80' to 50' LT	30.74
LOC 1	SN 074-8066	82+50.00			50' TO 80' LT	30.00
LOC 1	SN 074-8066	82+50.00	TO	83+10.00	50' TO 30' LT	60.51
LOC 1	SN 074-8066	83+10.00	TO	84+60.19	30' LT	150.19
LOC 1	SN 074-8066	79+76.20	TO	81+89.19	30' RT	212.99
LOC 1	SN 074-8066	82+47.19	TO	83+48.17	30' RT	100.98
SUB-TOTAL LOC 1:						681.19
LOC 2	SN 074-8067	128+04.27	TO	128+20.00	30" LT	15.73
LOC 2	SN 074-8067	128+20.00	TO	129+00.00	30' to 45' LT	81.22
LOC 2	SN 074-8067	129+60.00	TO	130+40.00	45' TO 30' LT	83.45
LOC 2	SN 074-8067	130+40.00	TO	131+69.32	30' LT	129.32
LOC 2	SN 074-8067	127+24.17	TO	129+02.92	30' RT	178.75
LOC 2	SN 074-8067	129+57.92	TO	130+45.25	30' RT	87.33
SUB-TOTAL LOC 2:						575.80
TOTAL FAS 1517:						1,257.0
ROUNDED TOTAL:						1,257.0

SEE EROSION & SEDIMENT CONTROL PLAN

EROSION CONTROL BLANKET SCHEDULE

LOCATION	STRUCTURE	STATION	TO	TO STATION	LT/RT	OFFSET* FT	25100630
							FROSION CONTROL BLANKET*
							SQ YD
LOC 1	SN 074-8066 ¹	81+79.00	TO	82+14.00	LT	50 TO 80	123.73
LOC 1	SN 074-8066 ¹	82+19.72	TO	82+50.00	LT	50 TO 80	97.49
LOC 2	SN 074-8067	127+23.00	TO	129+02.00	RT	19.95 TO 30	198.89
LOC 2	SN 074-8067	129+58.00	TO	130+10.00	RT	19.95 TO 30	57.78
TOTAL FAS 1517:							477.9
ROUNDED TOTAL:							478.0

NOTE 1: TEMPORARY EASEMENT AREA

*MEASURED FROM CAD

GUARDRAIL SCHEDULE

LOCATION	DESCRIPTION	63000003				63000350				63000360				63100167				63200310	78200005	72501000					
		STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS								LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN				LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN				TRAFFIC BARRIER TERMINAL, 1 (SPECIAL) TANGENT				TYPE	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER DIRECT APPLIED
		STATION	TO	STATION	FOOT	STATION	TO	STATION	FOOT	STATION	TO	STATION	FOOT	EACH	STATION	TO	STATION	FOOT	FOOT	EACH	EACH				
SN 074-8066 P SN 074-8052 E 82+18.15	EB APPROACH	80+71.28	TO	81+96.28	125.00								81+96.28	TO	82+40.03	43.75	1.0	80+21.28	TO	80+71.28	275.00	4	1.0		
	EB DEPARTURE	82+40.03	TO	82+52.53	12.50												1.0	82+52.53	TO	83+02.53			1.0		
	WB APPROACH	83+65.03	TO	82+40.03	125.00								82+40.03	TO	81+96.28	43.75	1.0	84+15.03	TO	83+65.03	190.00	4	1.0		
	WB DEPARTURE	81+96.28	TO	81+83.78	12.50												1.0	81+83.78	TO	81+33.78			1.0		
SN 074-8067 P SN 074-8054 E 129+30.42	EB APPROACH	127+86.67	TO	129+11.67	125.00	129+11.67	TO	129+49.17	37.5								1.0	127+36.67	TO	127+86.67	275.00	4	1.0		
	EB DEPARTURE	129+49.17	TO	129+61.67	12.50												1.0	129+61.67	TO	130+11.67			1.0		
	WB APPROACH	130+74.17	TO	129+49.17	125.00	129+49.17	TO	129+11.67	37.5								1.0	131+24.17	TO	130+74.17	217.50	4	1.0		
	WB DEPARTURE	129+11.67	TO	128+99.17	12.50												1.0	128+99.17	TO	128+49.17			1.0		
TOTAL FAS 1517					550.00												8.0					957.50	16.0	8.0	
ROUNDED TOTAL:					550.00												8.0						957.50	16.0	8.0

NOTES:

SN 074-8066 LON = 198, L1= 146.5, L2= 58

SN 074-8067 LON = 195, L1= 146.5, L2= 55

MODEL: \\MODEL\MNF5 FILE: \\NF5\p\1100182021\DOT\Documents\DOT\Office\Drawings\1100182021\1100182021\Schedules of Quantities.dgn

USER NAME = monjardlnt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0062 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

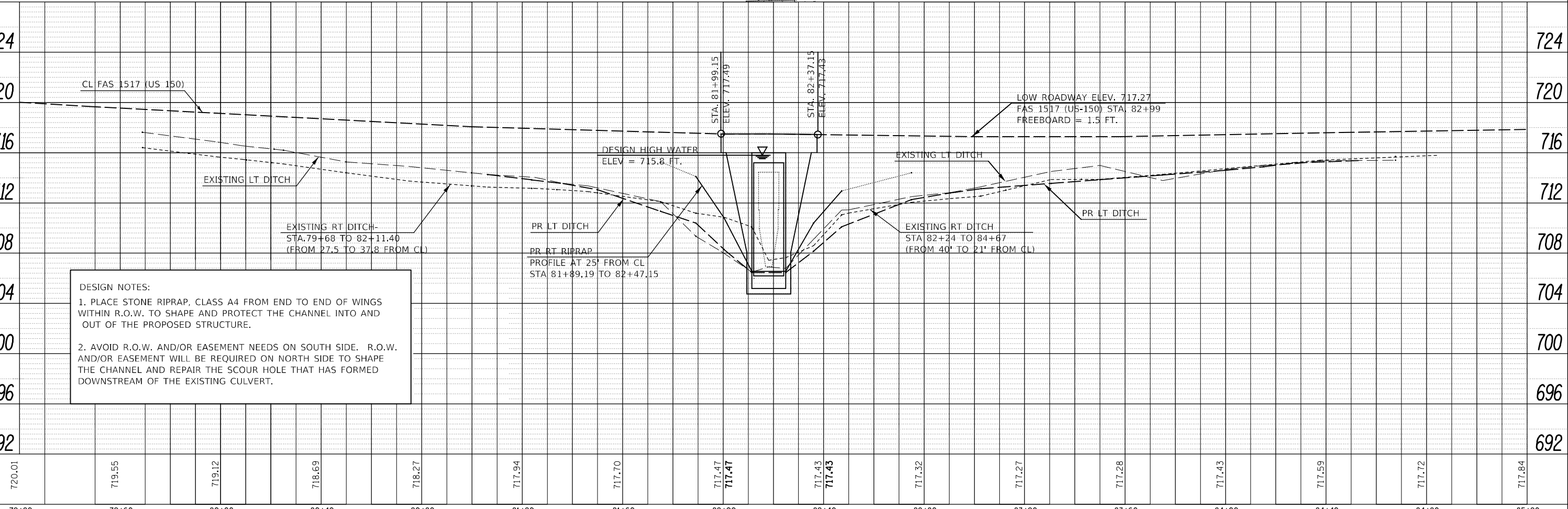
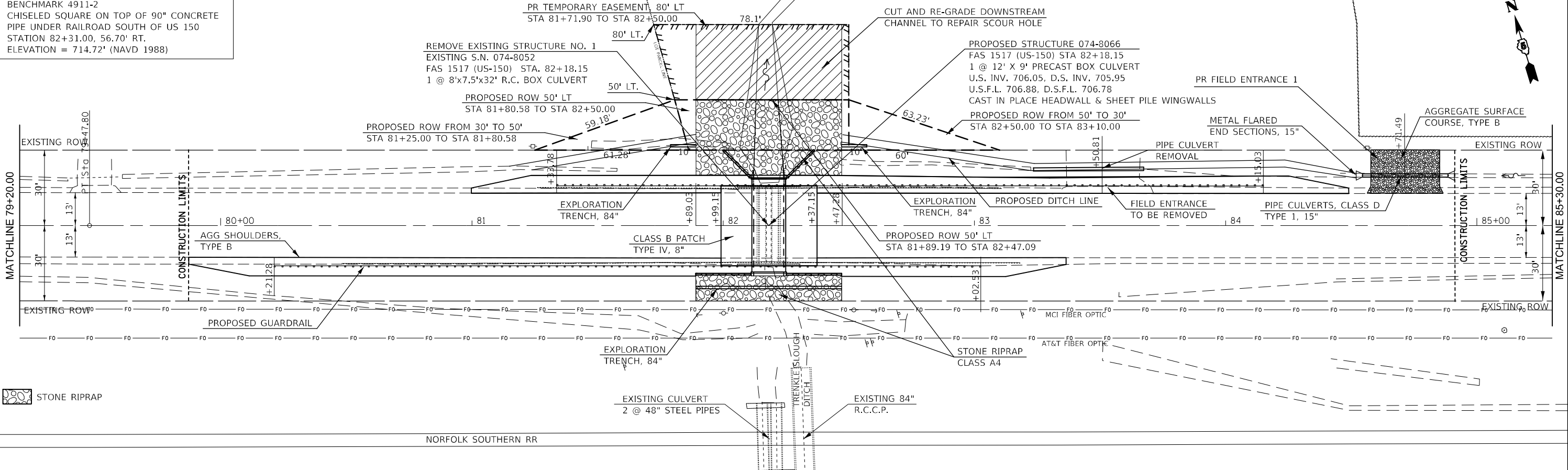
SCHEDULES OF QUANTITIES

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	14
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

SEC. 36, T.21 N., R. 5E., 3RD P.M.

BENCHMARK 4911-2
CHISELED SQUARE ON TOP OF 90" CONCRETE
PIPE UNDER RAILROAD SOUTH OF US 150
STATION 82+31.00, 56.70' RT.
ELEVATION = 714.72' (NAVD 1988)



DESIGN NOTES:
1. PLACE STONE RIPRAP, CLASS A4 FROM END TO END OF WINGS WITHIN R.O.W. TO SHAPE AND PROTECT THE CHANNEL INTO AND OUT OF THE PROPOSED STRUCTURE.
2. AVOID R.O.W. AND/OR EASEMENT NEEDS ON SOUTH SIDE. R.O.W. AND/OR EASEMENT WILL BE REQUIRED ON NORTH SIDE TO SHAPE THE CHANNEL AND REPAIR THE SCOUR HOLE THAT HAS FORMED DOWNSTREAM OF THE EXISTING CULVERT.

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	FILED	FILED
	NO.	NO.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	NOTATIONS
	NO.	NO.

FILE NAME =	USER NAME = monjardnrrt	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">PLAN & PROFILE SHEETS S.N. 074-8052 (E)/074-8066 (P)</p> <p>SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\idot\pw.bentley.com\PIDOT\Documents\IDOT\Offices\District 5\Projects\0570755\CADD\Drawings\0570755-Plan & Profile Sheets	PLOT SCALE = 40.8114' / in.	CHECKED -	REVISED -		1517	11CR	PIATT	62	15
PLOT DATE = 10/18/2021	DATE -	REVISED -	REVISED -		CONTRACT NO. 70755				
					ILLINOIS FED. AID PROJECT				

SEC. 31, T.21 N., R. 6E., 3RD P.M.

BENCHMARK 4911-1
CHISELED SQUARE ON TOP OF 60" CONCRETE
PIPE UNDER RAILROAD SOUTH OF US 150
STATION 129+30.00, 52.80' RT.
ELEVATION = 717.41' (NAVD 1988)

EXISTING SN 074-8053
STATION 128+72.09, SKEW 59.16° LT. FWD.
1 @ 6'x2.5'x62' R.C. BOX CULVERT
REMOVE HEADWALLS AND FILL WITH
CONTROLLED LOW STRENGTH MATERIAL
(FLOWABLE FILL)-- SEE SPECIAL PROVISIONS

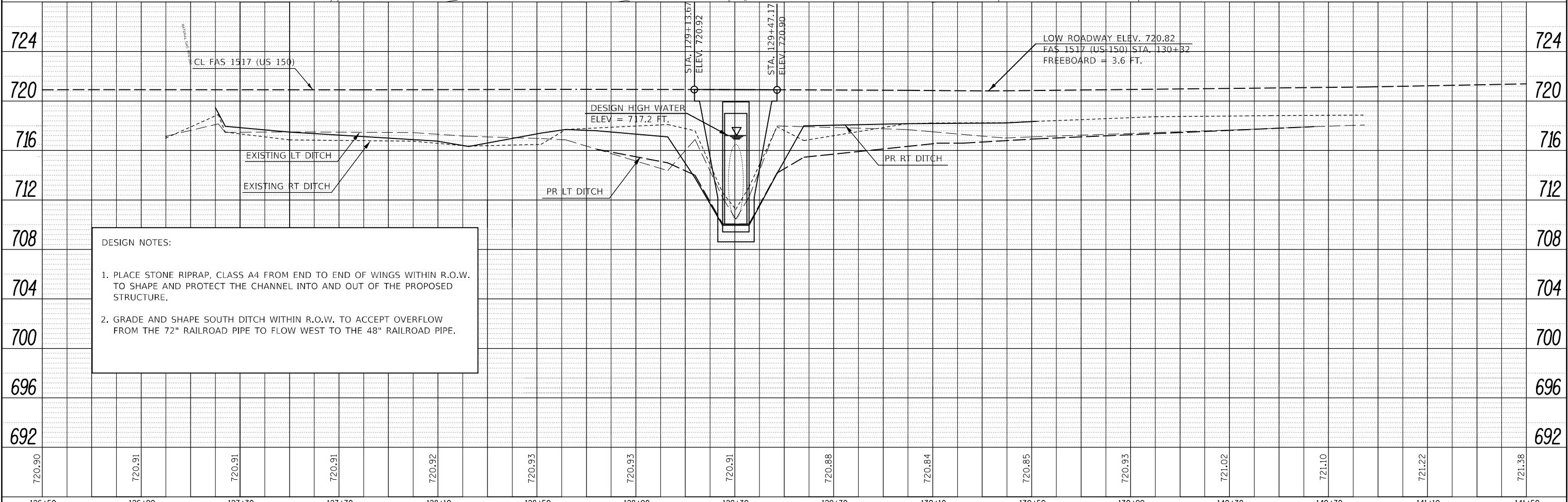
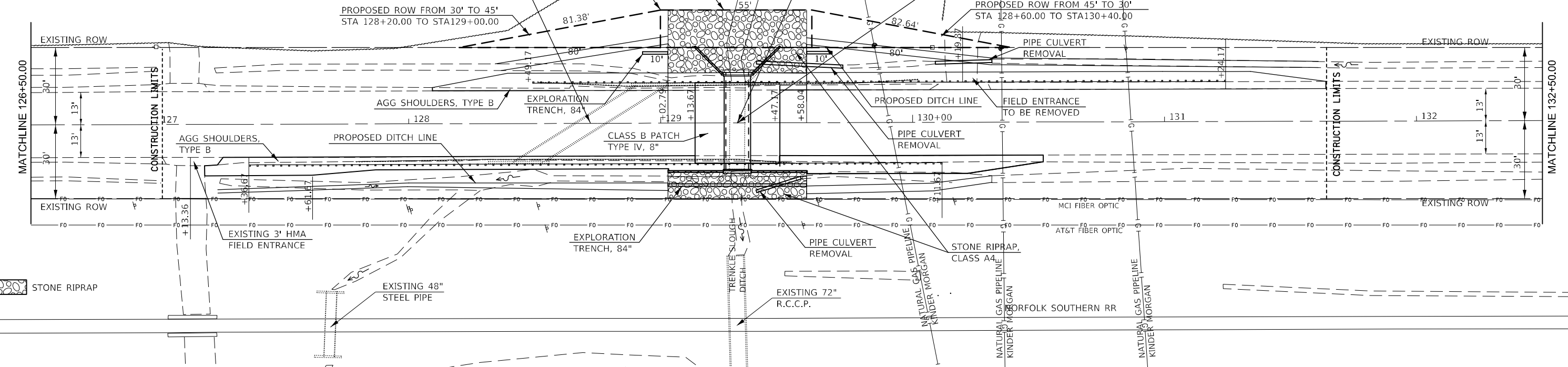
PROPOSED ROW 45' LT
STA 129+02.92 TO STA 129+57.92

EXISTING SN 074-8054
STATION 129+30.42
72" x 35' C.M.P.

PROPOSED STRUCTURE 074-8067
FAS 1517 (US-150) STA 129+30.42
1 @ 9' X 9' PRECAST BOX CULVERT
U.S. INV. 710.05, D.S. INV. 709.95
U.S.F.L. 710.05, D.S.F.L. 709.95
SHEET PILE WINGWALLS

PLAN	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE		
	STATUS		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE		
	STATUS		



DESIGN NOTES:

1. PLACE STONE RIPRAP, CLASS A4 FROM END TO END OF WINGS WITHIN R.O.W. TO SHAPE AND PROTECT THE CHANNEL INTO AND OUT OF THE PROPOSED STRUCTURE.
2. GRADE AND SHAPE SOUTH DITCH WITHIN R.O.W. TO ACCEPT OVERFLOW FROM THE 72" RAILROAD PIPE TO FLOW WEST TO THE 48" RAILROAD PIPE.

FILE NAME =	USER NAME = monjardnrrt	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">PLAN & PROFILE SHEETS S.N. 074-8053 & 074-8054 (E)/074-8067 (P)</p> <p>SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.</p>	<p align="center">F.A.S. RTE. 1517</p> <p align="center">SECTION 11CR</p> <p align="center">COUNTY PIATT</p> <p align="center">TOTAL SHEETS 62</p> <p align="center">SHEET NO. 16</p> <p align="center">CONTRACT NO. 70755</p> <p align="center">ILLINOIS FED. AID PROJECT</p>
px:\idot-pw.bentley.com\PIDOT\Documents\DOT Offices\District 5\Projects\0570755\CAD\Drawings\0570755-Plan & Profile Sheets	DRAWN -	REVISED -	REVISED -		
PLOT SCALE = 48.0623' / in.	CHECKED -	REVISED -	REVISED -		
PLOT DATE = 10/18/2021	DATE -	REVISED -	REVISED -		

FOR INFORMATION ONLY

NE CORNER, SE 1/4, SECTION 36, T. 21 N., R. 5 E., 3RD P.M.
IRON PIN FOUND PREVIOUS MON. REC. BK 2, PG 8 (DOC. NO. 338881)

NW CORNER, SW 1/4, SECTION 36, T. 21 N., R. 5 E., 3RD P.M.
IRON PIN FOUND - PREVIOUS MON. REC. BK 1, PG 262 (DOC. NO. 253502)



SURVEYED CENTERLINE CURVE DATA
 PI STA = 74+47.97
 Δ = 02°31'52" (LT)
 D = 00°15'11"
 R = 22,631.52'
 T = 500.00'
 E = 5.52'
 PC STA = 69+47.97
 PT STA = 79+47.80

5011902 and 5011902 TE
DOUGLAS R. JOHNSON and GREG A. JOHNSON,
 CO-TRUSTEES of the YOWELL/JOHNSON FAMILY FARM TRUST U/D/D October 25, 1985
 PART OF THE SOUTH HALF OF OF SECTION 36, TOWNSHIP 21 NORTH, RANGE 5 EAST
 OF THE THIRD PRINCIPAL MERIDIAN, SITUATED IN PIATT COUNTY, ILLINOIS.
 PART OF 02-36-21-005-010-03
 ROW AREA REQUIRED = 1,931 SF = 0.044 AC. +/-
 TEMPORARY EASEMENT AREA REQUIRED = 2,213 SF = 0.051 AC. +/-

SE 1/4 SEC. 36, T. 21 N., R 5 E.

R
5
E

R
6
E

5011901
BRITTANY J. KAPPES
 PART OF THE SOUTHEAST QUARTER OF SECTION 36,
 TOWNSHIP 21 NORTH, RANGE 5 EAST OF THE THIRD
 PRINCIPAL MERIDIAN, SITUATED IN PIATT COUNTY, ILLINOIS.
 PART OF 02-36-21-005-010-02
 ROW AREA REQUIRED = 614 SF = 0.014 AC. +/-

5011903
RANDEL S. BEAZLY
 PART OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER
 OF SECTION 31, TOWNSHIP 21 NORTH, RANGE 6 EAST OF THE THIRD
 PRINCIPAL MERIDIAN, SITUATED IN PIATT COUNTY, ILLINOIS.
 PART OF 02-31-21-006-012-01
 ROW AREA REQUIRED = 2,100 SF = 0.048 AC. +/-

SW 1/4, SE 1/4 SEC. 31, T. 21 N., R 6 E.

MATCH SEE ABOVE RIGHT
FOR CONTINUATION

MATCH SEE BELOW LEFT
FOR CONTINUATION



SW COR., SE 1/4,
SECTION 31, T. 21 N., R. 6 E., 3RD P.M.
PREVIOUS MON. REC. BK 2, PG 8
DOC. NO. 338881

SOUTH LINE, SE 1/4, SEC. 31, T. 21 N., R. 6 E., 3RD P.M. (N 89°26'36" W - 2,668.31')
 (N 89°26'28" W - 2,668.31' PREVIOUS SURVEY)

SE CORNER,
SECTION 31, T. 21 N., R. 6 E., 3RD P.M.
NO CORNER FOUND
PREVIOUS MON. REC. BK 2, PG 8
DOC. NO. 338881

REVISION 11/1/2021: PARCEL 5011902 and 5011903 Name Change

NOTE
 BEARINGS BASED ON ILLINOIS
 STATE PLANE COORDINATES
 EAST ZONE NAD 83 (2011 ADJ.)

USER NAME = monjardnrr	DESIGNED -	REVISED -
PLOT SCALE = 20.0457' / in.	DRAWN - D CARY	REVISED -
PLOT DATE = 11/1/2021	CHECKED -	REVISED -
	DATE -	REVISED -

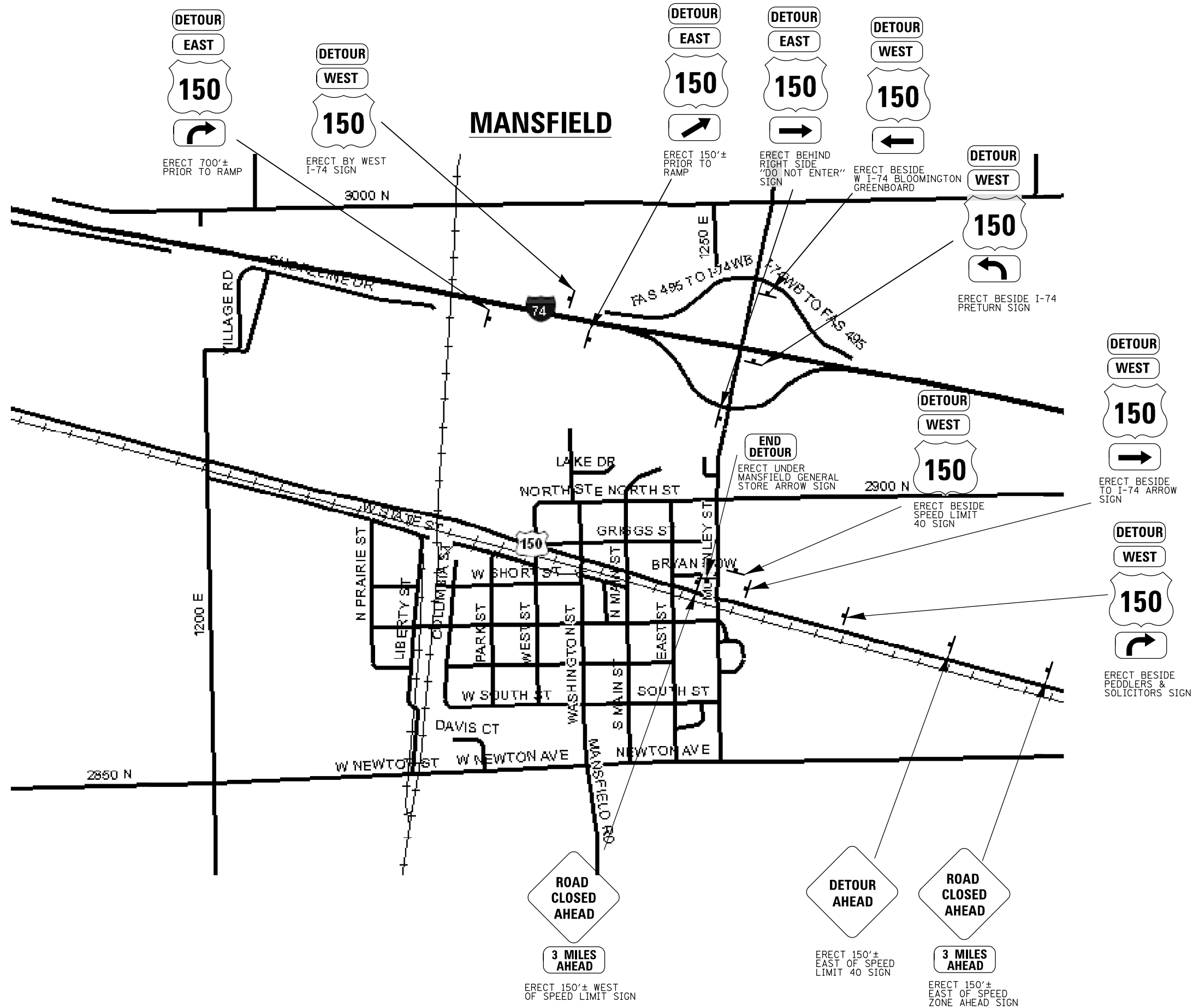
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROW PLAN SHEETS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	18
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

MODEL: SHODLEMMAMES
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 ELIMANES
 LEGS



MODEL: \$MODELNAME\$
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DESIGNED	-
DRAWN	-
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PLOT DATE	= 10/18/2021

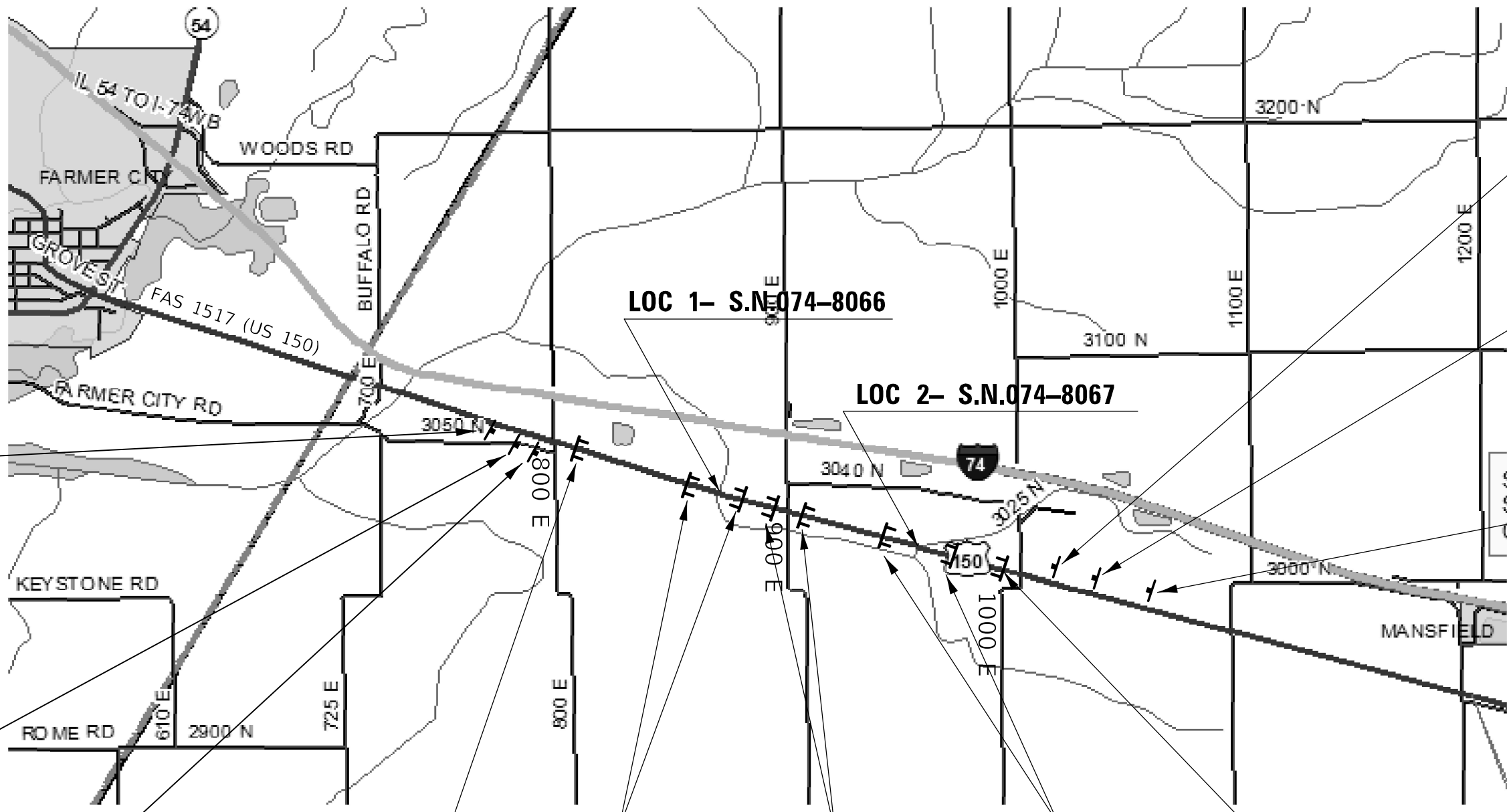
DESIGNED	-
REVISÉD	-
CHECKED	-
DATE	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN	
SCALE:	STATION TO STATION
SHEET 2	OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	20
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

US 150 ROAD CLOSURE SIGNING



ERECT 500 FT EAST OF STAGGERED BARRICADES



ERECT 500 FT EAST OF BARRICADE AHEAD SIGN



1 MILE AHEAD
ERECT 20 FT OFFSET FROM CL, 1 MILE EAST OF LOC.2



1 MILE AHEAD

ERECT 20 FT OFFSET FROM CL PERPENDICULAR TO UTILITY MARKER



ERECT 500 FT WEST OF BARRICADE AHEAD SIGN



ERECT 500 FT WEST OF STAGGERED BARRICADES

TYPE 3 BARRICADE (STAGGERED) W/LIGHTS AND ROAD CLOSED TO TRAFFIC SIGN, 50 FT EAST OF 800 E

SOLID TYPE 3 BARRICADE W/LIGHTS AND ROAD CLOSED TO TRAFFIC SIGN, JUST WEST & EAST ENDS OF LOC. 1 WORK AREA

TYPE 3 BARRICADE (STAGGERED) W/LIGHTS AND ROAD CLOSED TO TRAFFIC SIGN, 50 FT EAST & WEST OF 900 E

SOLID TYPE 3 BARRICADE W/LIGHTS AND ROAD CLOSED TO TRAFFIC SIGN, JUST WEST & EAST ENDS OF LOC. 2 WORK AREA

TYPE 3 BARRICADE (STAGGERED) W/LIGHTS AND ROAD CLOSED TO TRAFFIC SIGN, 50 FT WEST OF 1000 E

MODEL: S:\MODELS\AVIES FILE NAME: p:\w\llc\cam_bentley.com\P\DOT\Documents\DOT_Offices\Bentley 3\Projects\US70755\CADD\Drawings\DOT_Offices\Bentley 3\Projects\US70755\spic- Detour Plan.dgn

USER NAME = monjardirr	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 150,5512' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

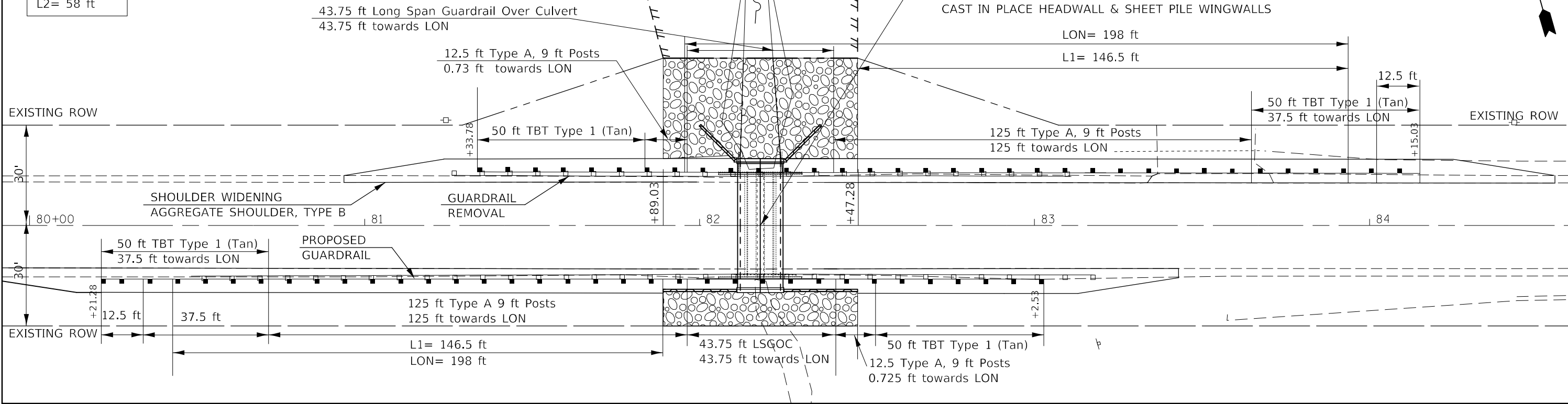
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	21
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

LOCATION 1- SN 074-8066

SEC. 36, T.21 N., R. 5E., 3RD P.M.

LON= 198 ft
L1= 146.5 ft
L2= 58 ft

PROPOSED STRUCTURE 074-8066
FAS 1517 (US-150) STA 82+18.15
1 @ 12' X 9' PRECAST BOX CULVERT
U.S. INV. 706.05, D.S. INV. 705.95
U.S.F.L. 706.88, D.S.F.L. 706.78
CAST IN PLACE HEADWALL & SHEET PILE WINGWALLS

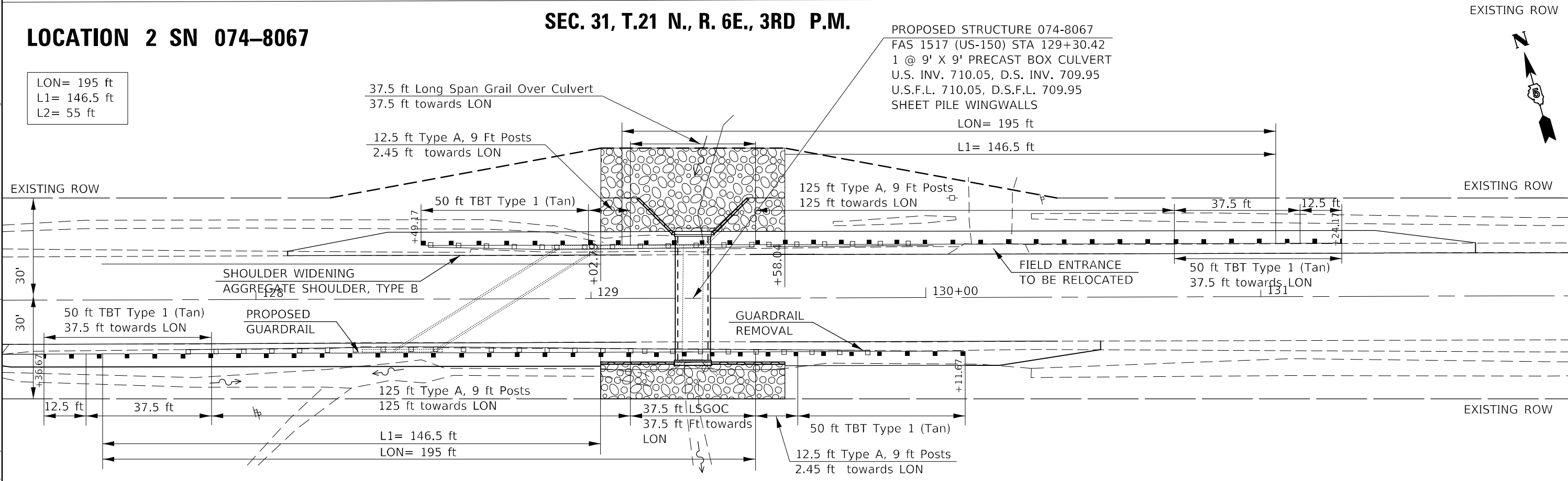


LOCATION 2 SN 074-8067

SEC. 31, T.21 N., R. 6E., 3RD P.M.

LON= 195 ft
L1= 146.5 ft
L2= 55 ft

PROPOSED STRUCTURE 074-8067
FAS 1517 (US-150) STA 129+30.42
1 @ 9' X 9' PRECAST BOX CULVERT
U.S. INV. 710.05, D.S. INV. 709.95
U.S.F.L. 710.05, D.S.F.L. 709.95
SHEET PILE WINGWALLS



MODEL: SHORDBEARING; FILE: I:\data\p\0748067\Drawings\DOT_Offices\Bentley_E\Projects\0748067\CADD\Drawings\0748067-3rd-P.M.-Guardrail_Details.dgn

USER NAME = monjardinrt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 30.0106' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

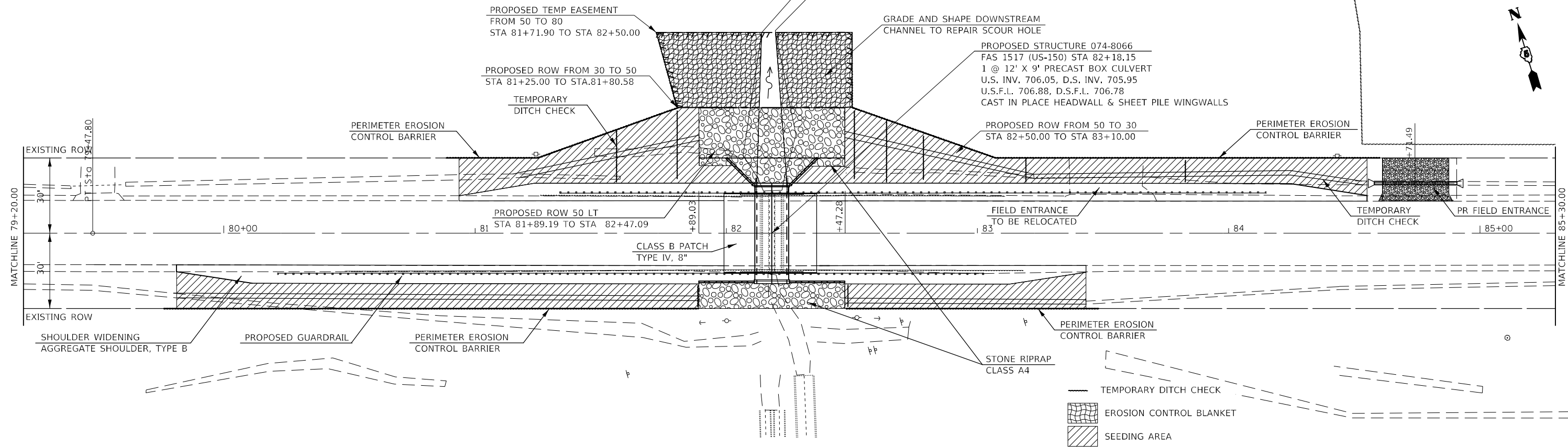
GUARDRAIL DETAILS SHEET
LOC 1-SN 074-8066 & LOC 2-SN 074-8067

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	22
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

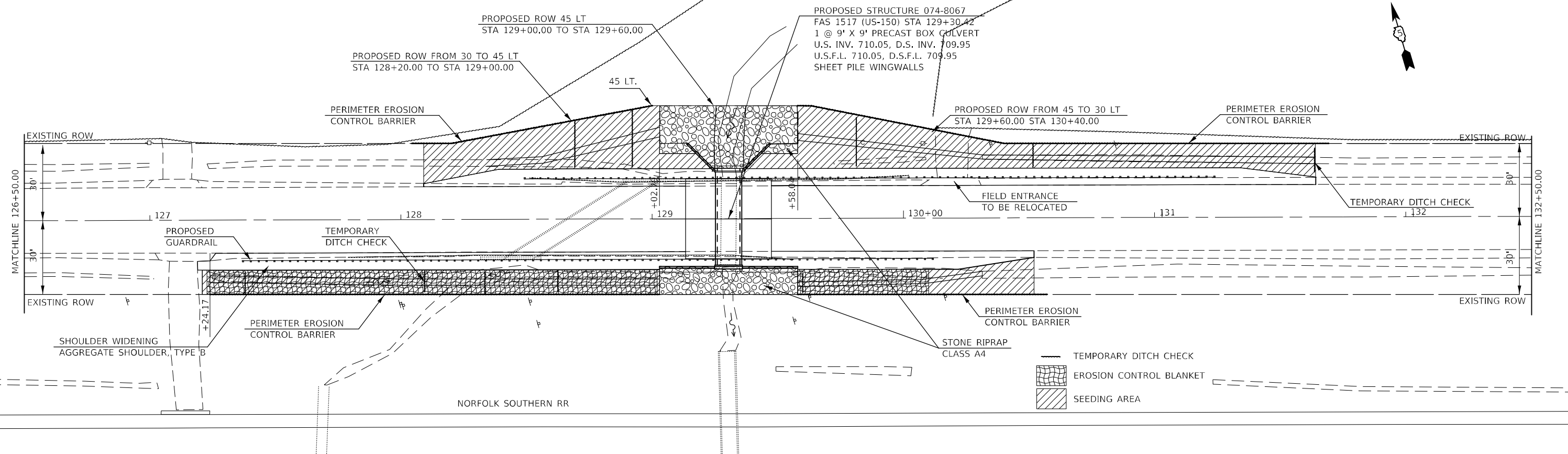
LOCATION 1- SN 074-8066

SEC. 36, T.21 N., R. 5E., 3RD P.M.



LOCATION 2- SN 074-8067

SEC. 31, T.21 N., R. 6E., 3RD P.M.



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION & SEDIMENT CONTROL PLAN
LOC 1- S.N.074-8066 & LOC 2- S.N.074-8067

USER NAME = monjardint	DESIGNED -	REVISED -
PLOT SCALE = 40.0188' / in.	DRAWN -	REVISED -
PLOT DATE = 10/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	23
CONTRACT NO. 70755				

ILLINOIS FED. AID PROJECT

Benchmark: BM 4911-2 Chiseled square, top of 90" concrete pipe under railroad south of U.S. 150, Station 82+31.00, 56.70' RT Elevation 714.72'

Existing Structure: S.N 074-8052 was originally constructed in 1925 at Sta.82+25 SBI-39 as a single-barrel 8'x3' cast-in-place box culvert, with 31'-4" length. It was rebuilt in the late 1970s to its present "V-bottom" RC Box shape measuring 8'x7'-6" and approximately 32' long from face-to-face of headwall. The structure is to be completely removed and replaced. The road is to be temporarily closed during construction.

INDEX OF SHEETS

1. General Plan and Elevation
- 2-3. Box Culvert End Section Details
4. Bar Splicer Assembly Details
5. Porous Granular Embankment Detail
6. Soil Boring Logs
7. Existing Structure Details

GENERAL NOTES

The design fill height for this box is < 1.3 feet. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material under the precast concrete box culvert, according to Section 540.06 of the Standard Specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

CULVERT CONSTRUCTION SEQUENCE

1. Remove existing structure
2. Build cutoff wall
3. Prepared bed
4. Place precast box culvert sections
5. Form and place concrete in end section
6. Drive sheeting
7. Backfill culvert and wings
8. Install sheet pile cap

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

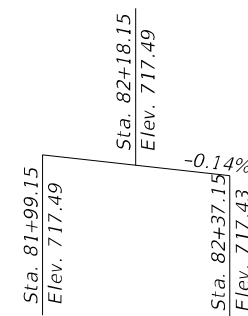
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 38,000 psi (Permanent Sheet Piling)
fy = 50,000 psi (AASHTO M270, Grade 50W)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures, Loc. 1	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 1	Each	2.0
Precast Concrete Box Culverts, 12' x 9'	Foot	37.0
Porous Granular Embankment	Cu. Yd.	173.0
Membrane Waterproofing for Buried Str.	Sq. Yd.	68.0
Geocomposite Wall Drain	Sq. Yd.	68.0

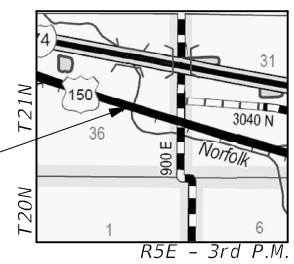
PROFILE GRADE



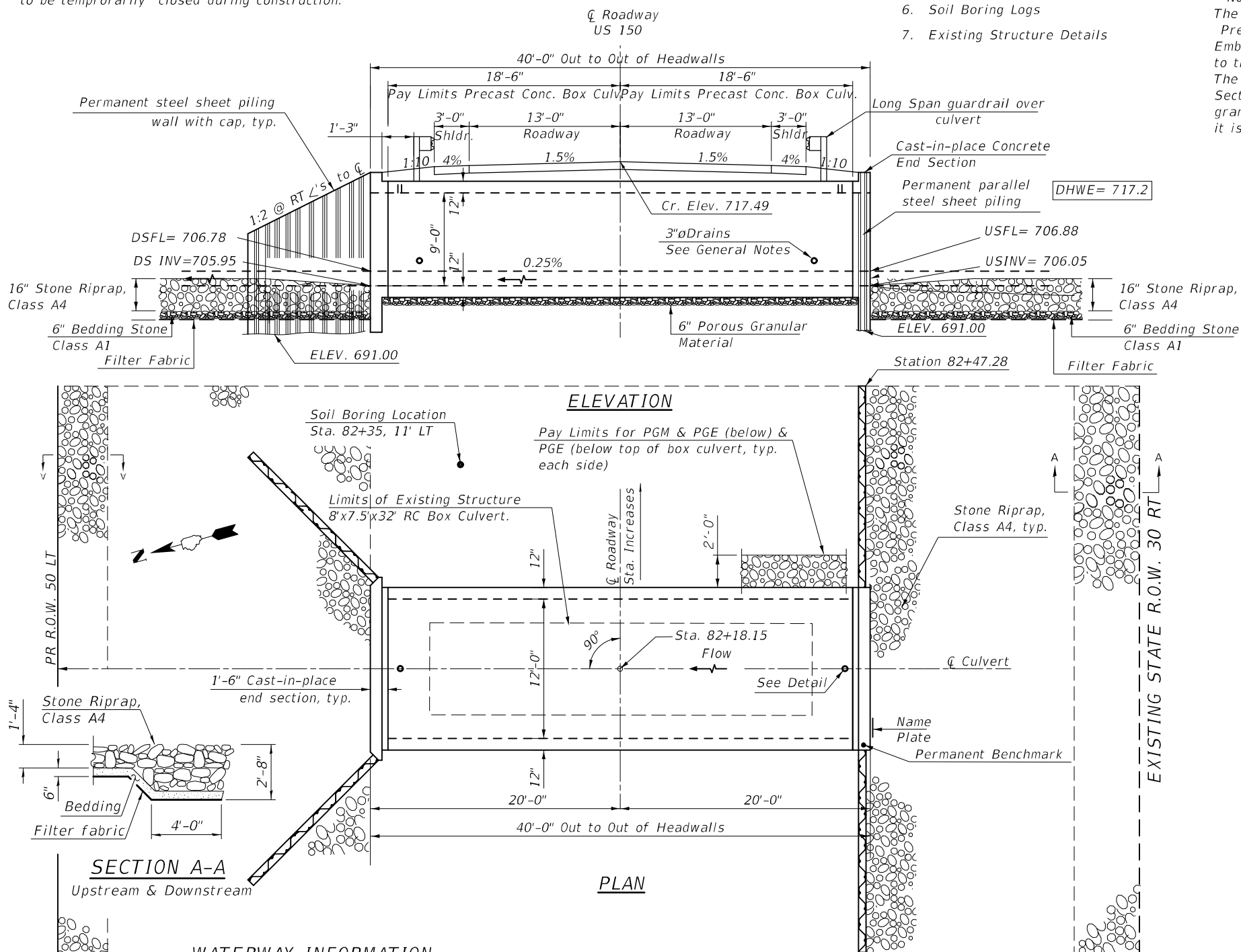
NAME PLATE

See Std. 515001

STATION 82+18.15
BUILT 2021 BY
STATE OF ILLINOIS
F.A.S. 1517 SEC. 11CR
LOADING HL-93
STR. NO. 074-8066



LOCATION SKETCH



WATERWAY INFORMATION

		Existing Low Grade Elev. = 717.27 ft. @ Sta. 82+99		Proposed Low Grade Elev. = 717.27 ft. @ Sta. 82+99				
Drainage Area = 4.0 mi. ²		Opening Sq. Ft.		Head - Ft.		Headwater Elevation		
Flood	Freq. Yr.	Q C.F.S.	Existing	Proposed	Existing	Proposed	Existing	Proposed
Design	10	451	50	80			716.2	713.5
Base	50	713	50	96			Over	715.8
Base	100	828	50	96			Over	716.7
Overtop (Exist)	25	547	50				717.3	
Overtop (Prop)	205	900		96				717.3
Max. Calc.	500	1100	50	96			Over	Over

10 YEAR VELOCITY THROUGH EXISTING BRIDGE 12.2 fps 10 YEAR VELOCITY THROUGH PROPOSED BRIDGE 6.4 fps

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC 1 SN 074-8066
GENERAL PLAN & ELEVATION

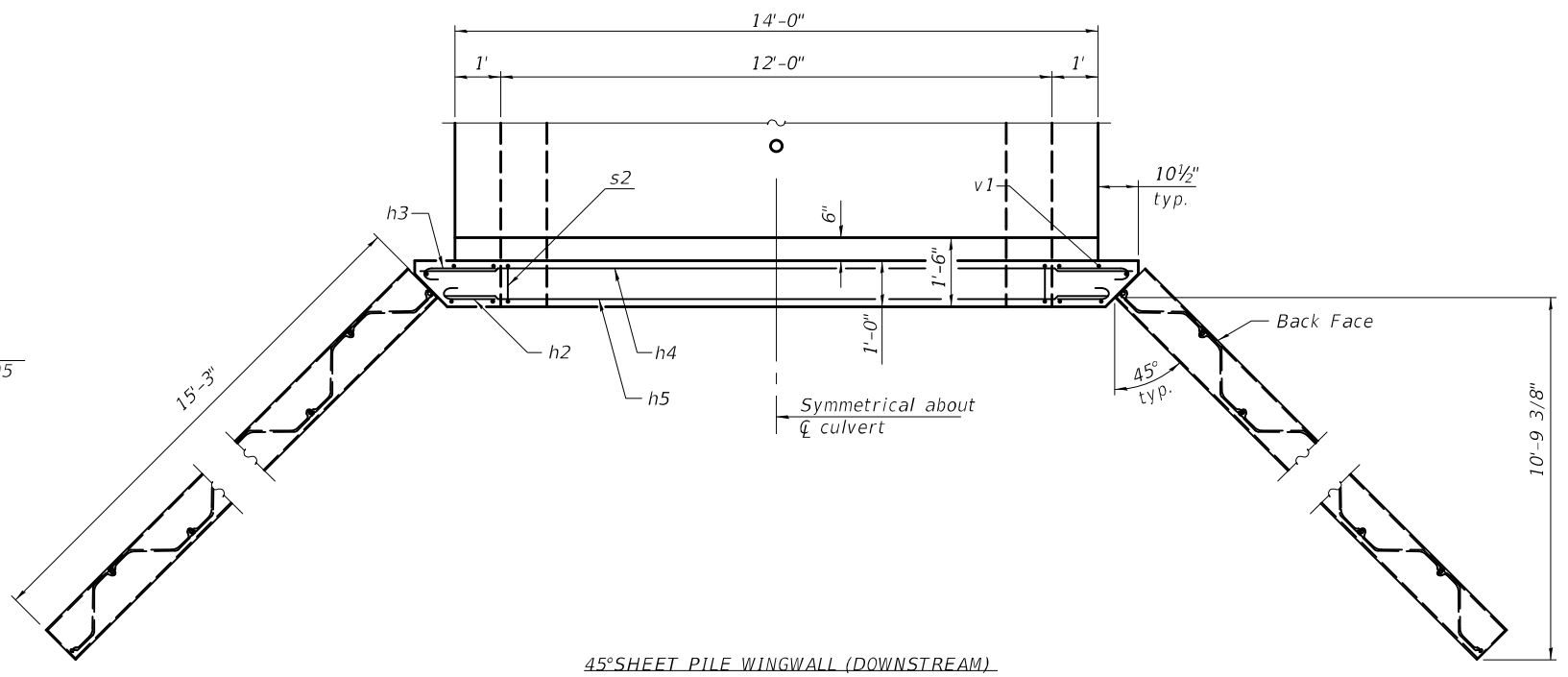
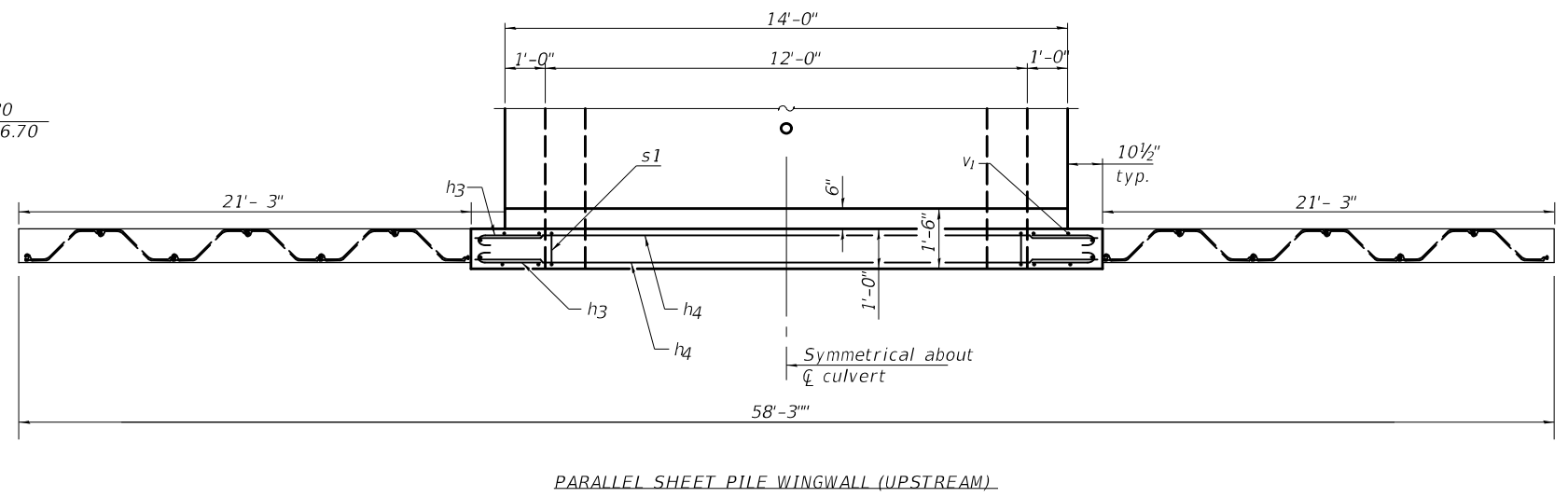
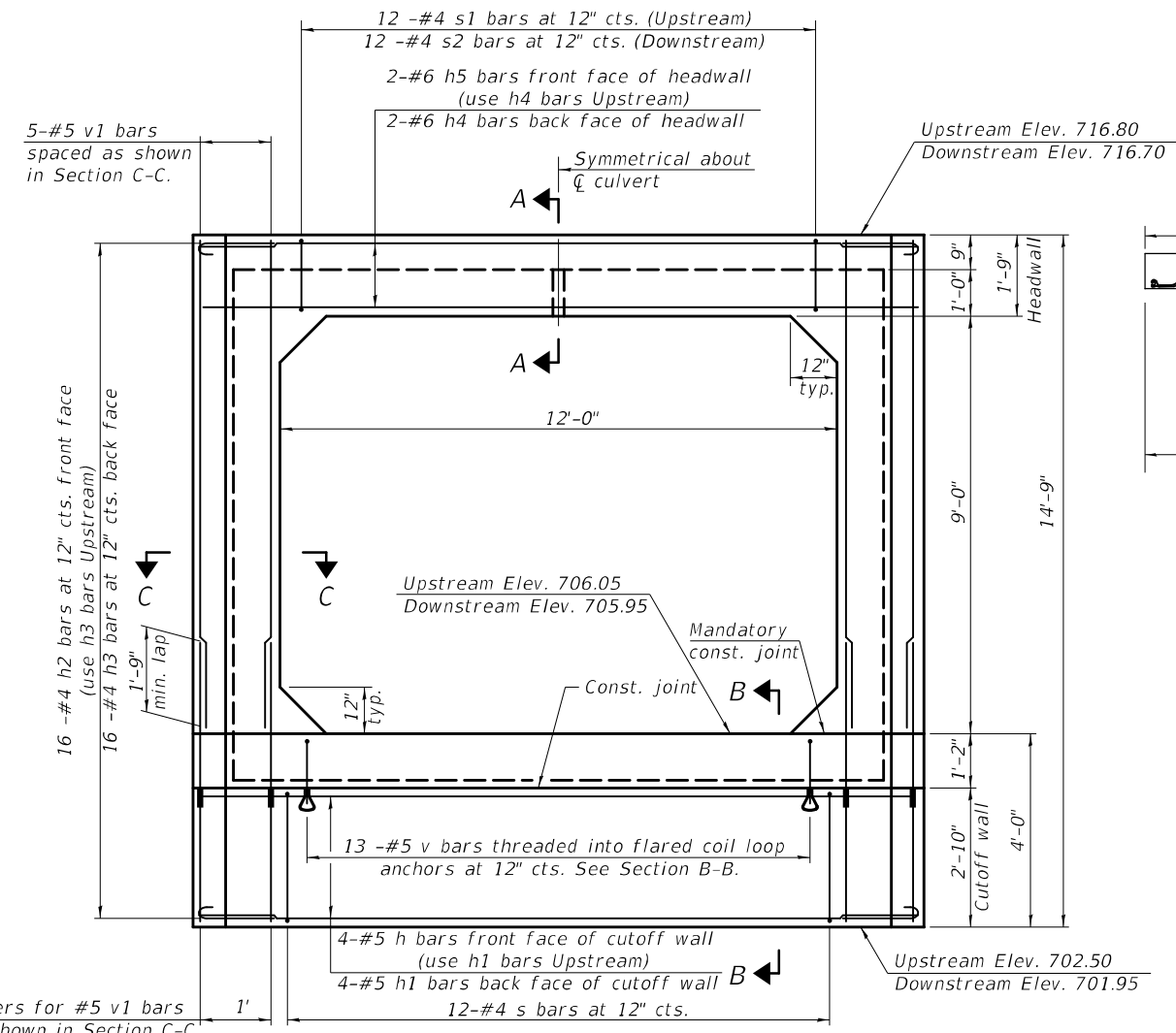
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DESIGNED -
DRAWN -
PLOT SCALE = 2,0003' / in.
PLOT DATE = 10/18/2021

DESIGNED -
REVISOR -
CHECKED -
DATE -

REVISOR -
REVISOR -
REVISOR -
REVISOR -

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.S. 1517 SECTION 11CR COUNTY PIATT COUNTY TOTAL SHEETS 62 SHEET NO. 24 CONTRACT NO. 70755 ILLINOIS FED. AID PROJECT



PLAN

Note:
 The design fill height for this structure is 1.3 feet. The precast concrete box culvert sections shall conform to the standard designs of ASTM C 1577.
 The box culvert end section shall be built in the field and a precast option is not allowed except the cutoff wall may be precast. If the Contractor elects to use a precast cutoff wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval.
 Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b).

The ends of the precast box sections adjacent to the end section shall be formed without male and female shapes.
 The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.
 Tilt h2 and h3 bars as required to maintain clearance. Extend precast concrete box culvert welded wire reinforcement into end section. Bend as necessary to provide 1½" clear cover.

See sheet 3 of 7 for Section A-A, B-B and C-C.

BILL OF MATERIAL

Item	Unit	Total
Box Culvert End Sections, Culvert No. 1	Each	2

(Sheet 1 of 2)

MODEL NAMES FILE NAME: I:\PROJECTS\2017\11\01\CIPES-SCB-PSSP-25\CAD\Drawings\CADSheets\0570755-11-CPE-071-8066

CIPES-SCB-PSSP-25 11/9/2021 = monjardirrt 8-11-2017

DESIGNED -	REvised -
DRAWN -	REvised -
CHECKED -	REvised -
DATE -	REvised -

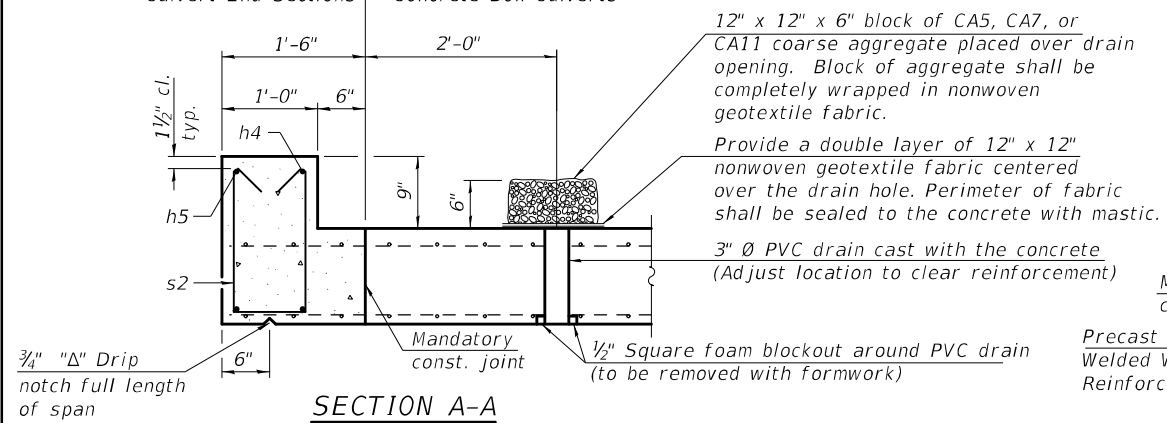
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC 1 SN 074-8066
END SECTION DETAIL

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	25
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

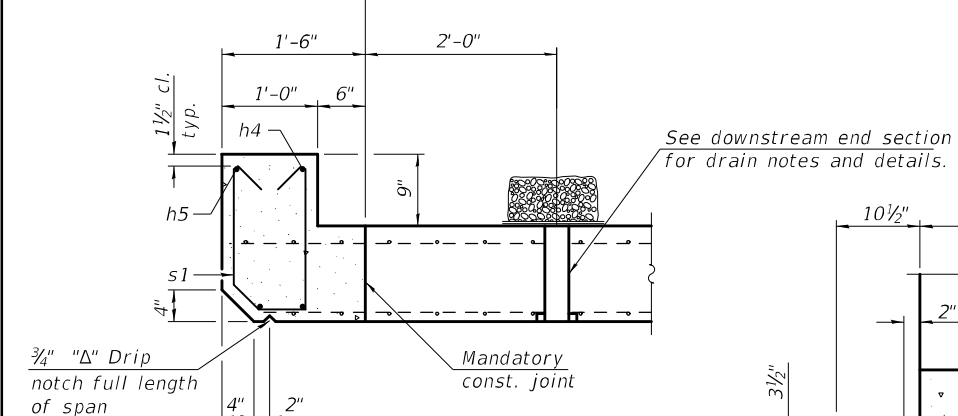
Pay Limits for Box Culvert End Sections Pay Limits for Precast Concrete Box Culverts



SECTION A-A
(Downstream End)

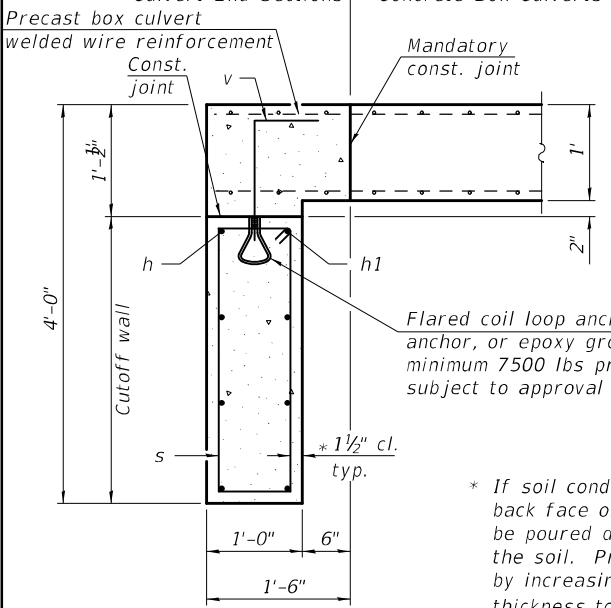
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

Pay Limits for Box Culvert End Sections Pay Limits for Precast Concrete Box Culverts



SECTION A-A
(Upstream End)

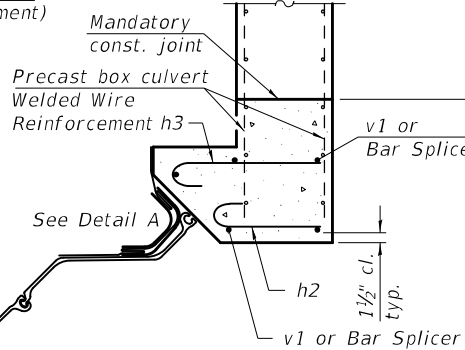
Pay Limits for Box Culvert End Sections Pay Limits for Precast Concrete Box Culverts



SECTION B-B

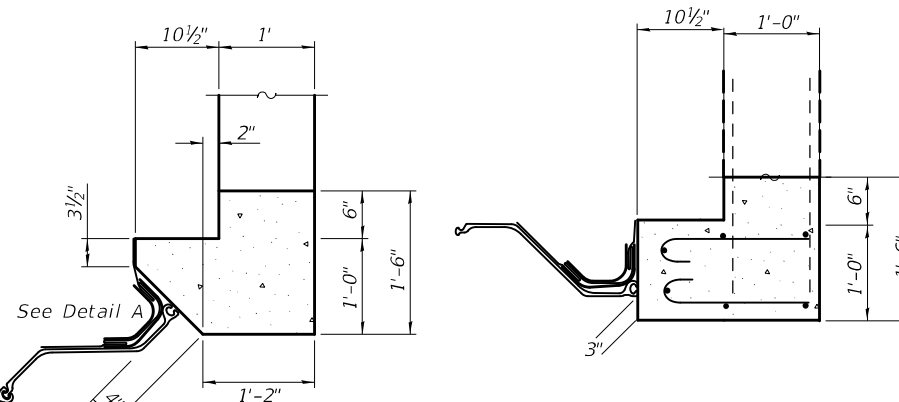
* If soil conditions permit, the back face of cutoff wall may be poured directly against the soil. Provide 3" cover by increasing cutoff wall thickness to 1'-1 1/2".

12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic.
3" Ø PVC drain cast with the concrete (Adjust location to clear reinforcement)
1/2" Square foam blockout around PVC drain (to be removed with formwork)



SECTION C-C
(Showing reinforcement)

See downstream end section for drain notes and details.



SECTION C-C
(Showing dimensions)

1/4" x 12" wide Fabric reinforced elastomeric mat per Section 1028 of the Standard Specifications.

Geosynthetic filter fabric per Section 1080.01 of the Standard Specifications. Minimum weight shall be 4 oz./sq. yd. Fold as shown.

DETAIL A

DOWNSTREAM SECTION
BILL OF MATERIAL

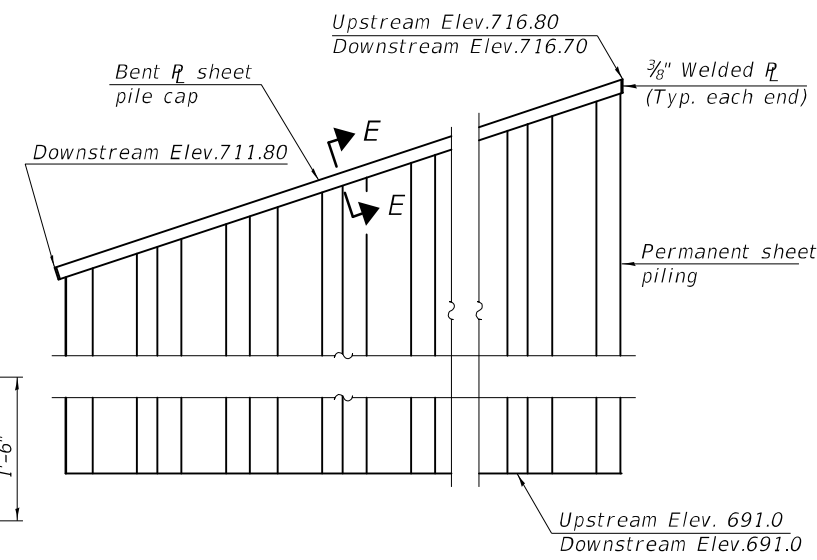
(For information only)

Bar	No.	Size	Length	Shape
h	4	#5	14'-3"	—
h1	4	#5	15'-5"	—
h2	32	#4	1'-7"	U
h3	32	#4	2'-0"	U
h4	2	#6	15'-6"	—
h5	2	#6	14'-2"	—
s	12	#4	7'-5"	□
s2	12	#4	4'-6"	□
v	13	#5	1'-11"	—
v1	10	#5	9'-6"	—
Concrete Box Culverts Cu. Yd. 5.3				
Reinforcement Bars Pound 510				
Bar Splicers Each 10				
Total Permanent Sheet Piling Sq. Ft. 711.87				

UPSTREAM SECTION
BILL OF MATERIAL

(For information only)

Bar	No.	Size	Length	Shape
h1	8	#5	15'-5"	—
h3	64	#4	2'-0"	U
h4	4	#6	15'-6"	—
s	12	#4	7'-5"	□
s1	12	#4	4'-4"	□
v	13	#5	1'-11"	—
v1	10	#5	9'-6"	—
Concrete Box Culverts Cu. Yd. 5.3				
Reinforcement Bars Pound 527				
Bar Splicers Each 10				
Total Permanent Sheet Piling Sq. Ft. 1,096.5				



WINGWALL ELEVATION

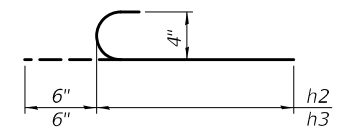
Notes:

The minimum effective section modulus of the permanent sheet pile wall shall be 35 in.³/ft.

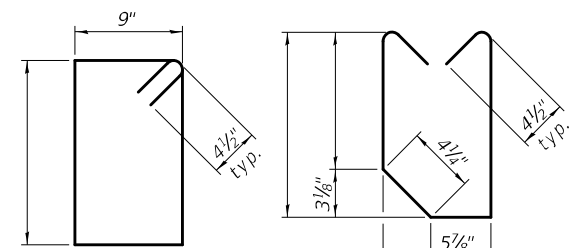
Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

The contractor will need appropriate driving equipment to achieve the required minimum tip elevations.

The cost of furnishing and installing the bent R sheet pile cap, elastomeric mat, and filter fabric shall be included in the cost of the end section.

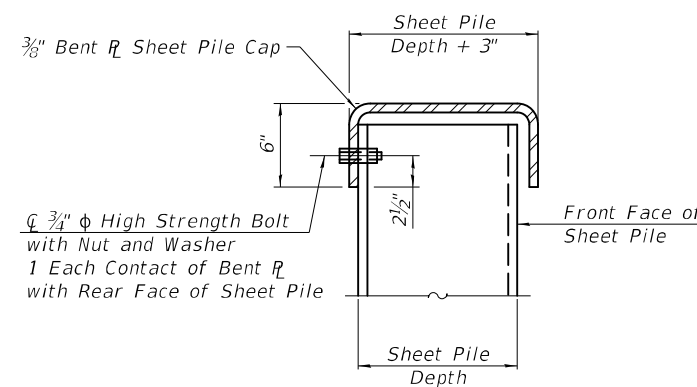


BARS h2 and h3

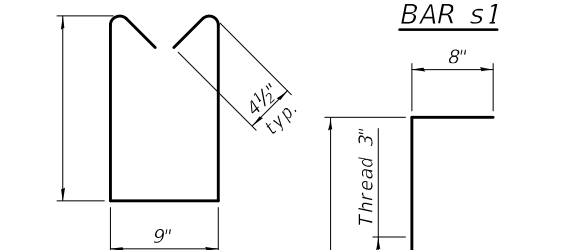


BAR s

BAR s1



SECTION E-E



BAR s2

BAR v

CIPES-PSSP-ZS-DETAILS 8-11-2017

USER NAME = monjardint	DESIGNED -	REVISED -
PLOT SCALE = 2,0060' / in.	DRAWN -	REVISED -
PLOT DATE = 11/9/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC 1 074-8066
END SECTION DETAIL

SCALE: SHEET 25 OF 7 SHEETS STA. TO STA.

(Sheet 2 of 2)

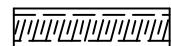
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	26
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

MODEL NAME: ipw-illinois-jemlby.com-PWIDOT\Documents\DOT_Offices\Bartlett_S\Projects\1517\SSCAD\Drawings\CAD\Sheet\1517-SS-End-DE-07-48066

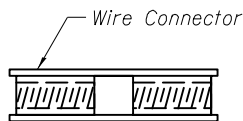
The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



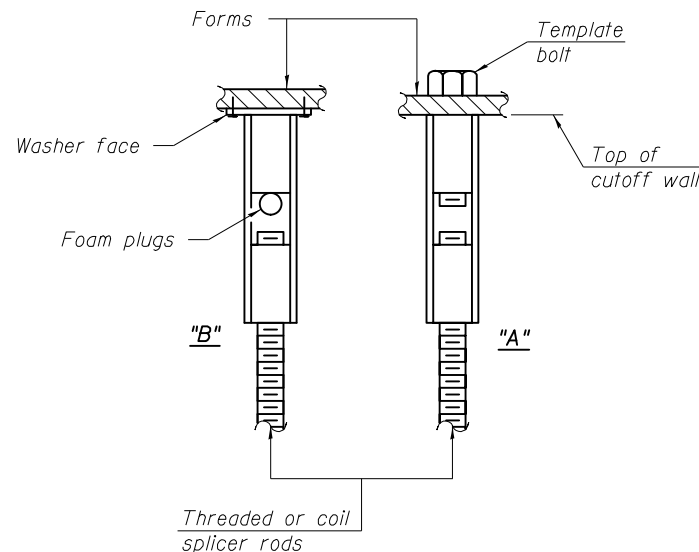
**** ONE PIECE**



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

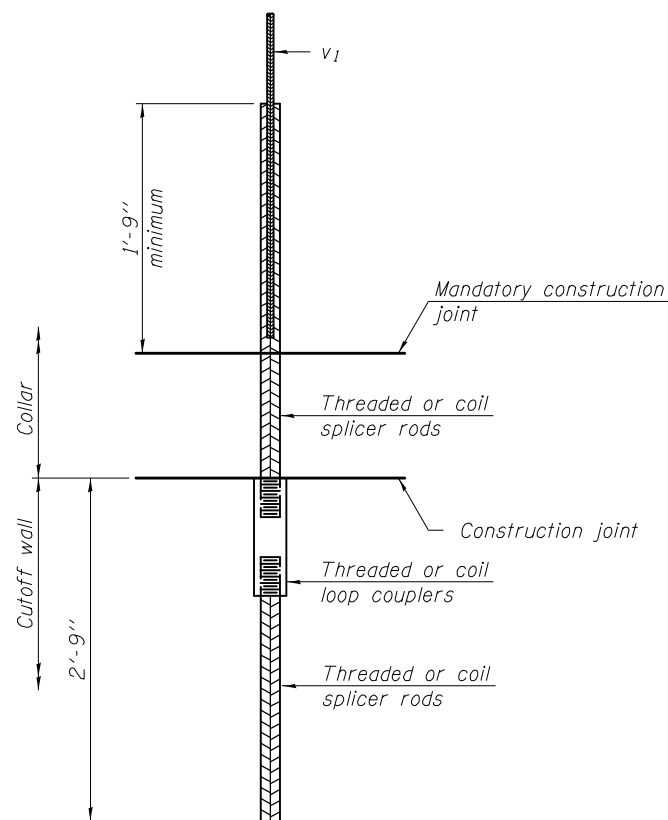
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
- ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required = 20	



FOR BOX CULVERT END SECTIONS

MODEL: \\MODEL\MNMF5
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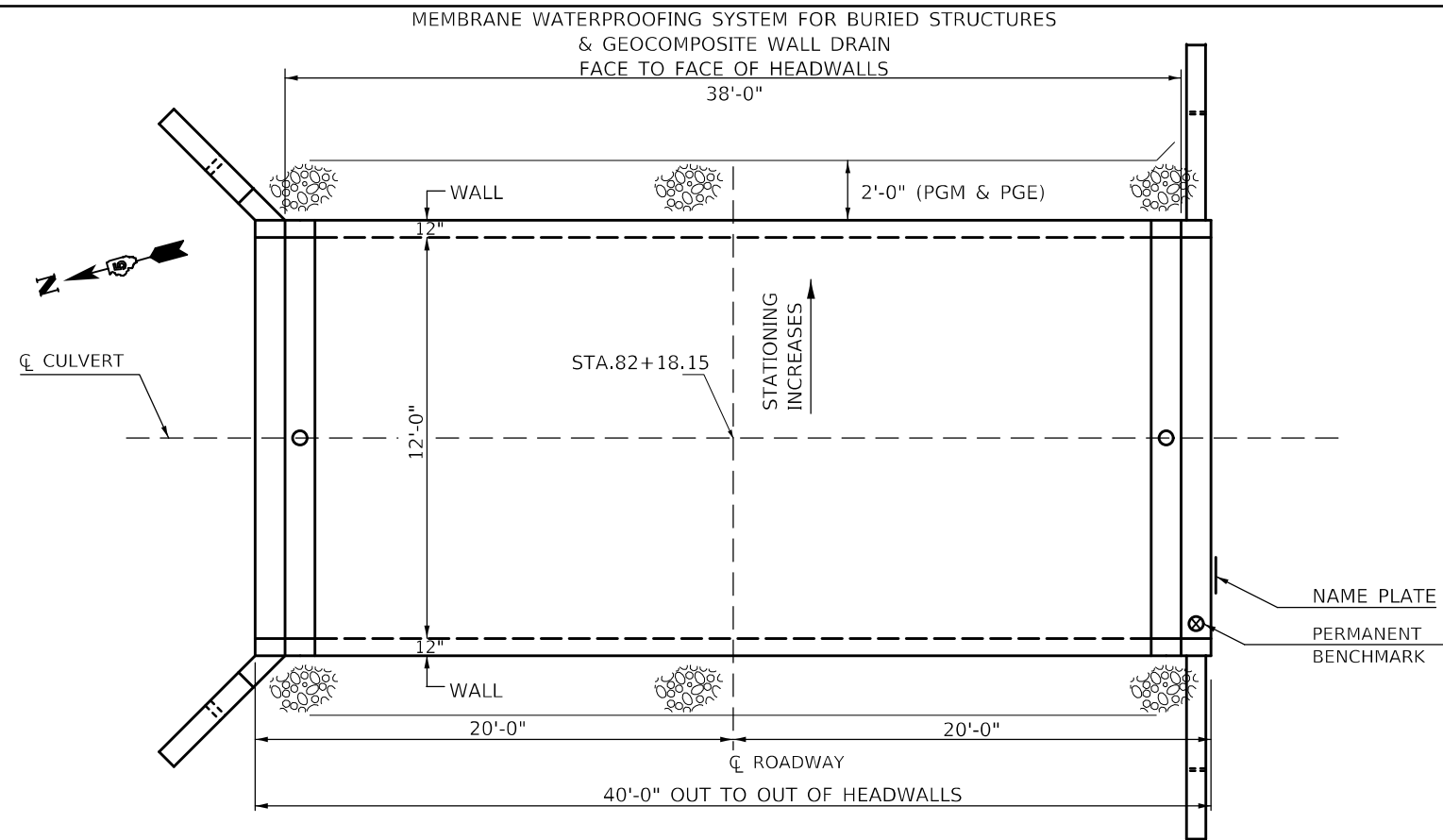
USER NAME = monjardinnrt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,0003' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

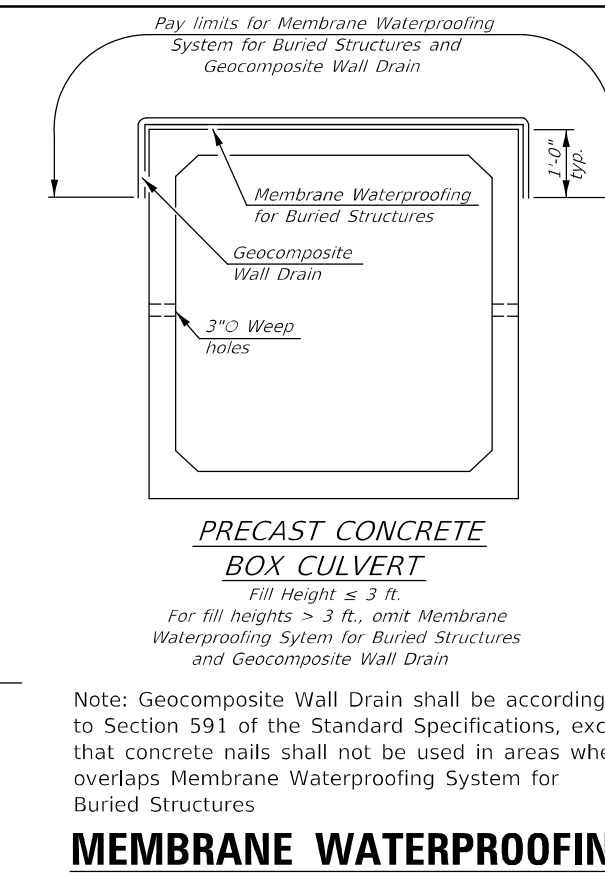
**LOC 1 SN 074-8066
BAR SPLICER ASSEMBLY DETAILS**

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	27
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				



PLAN



MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

SEE SPECIAL PROVISIONS

POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

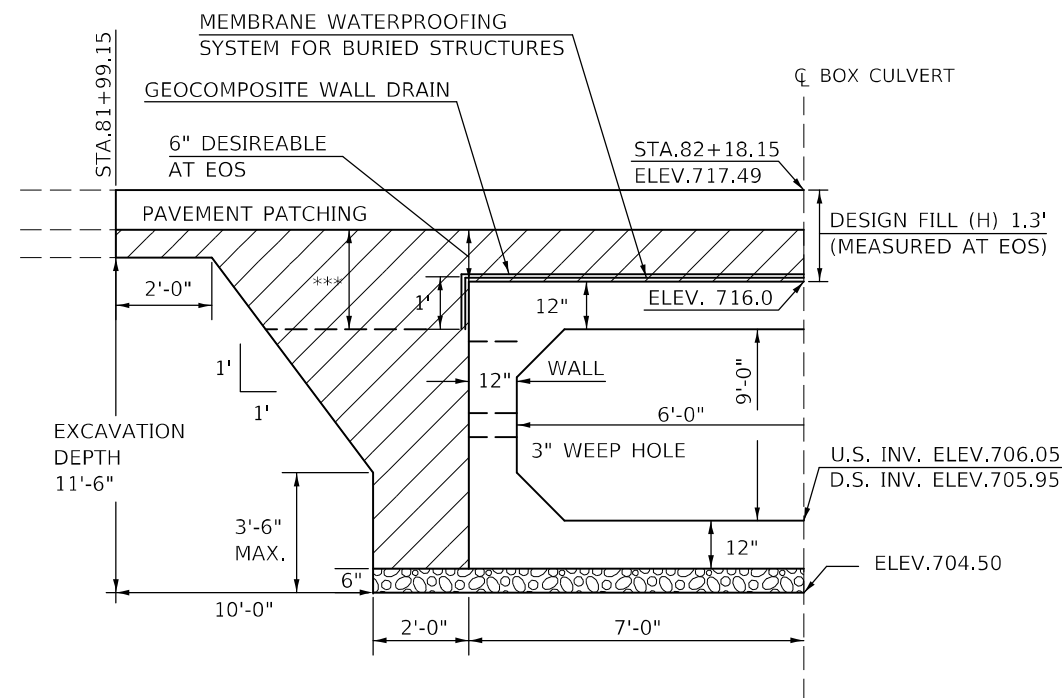
THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

THE COARSE AGGREGATE QUALITY SHALL BE CLASS D OR BETTER AND THE GRADATION SHALL BE CA-6 OR CA-10.

POROUS GRANULAR EMBANKMENT WILL BE MEASURED FOR PAYMENT IN CUBIC YARDS, IN PLACE AS SHOWN. IF THE CONTRACTOR CHOOSES TO EXCAVATE BEYOND THE LIMITS SHOWN, ADDITIONAL QUANTITIES OF POROUS GRANULAR EMBANKMENT WILL BE AT HIS/HER OWN EXPENSE.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT AND END SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH PRECAST CONCRETE BOX CULVERTS.

*** IN LIEU OF POROUS GRANULAR EMBANKMENT, THE CONTRACTOR MAY, AT NO ADDITIONAL COST TO THE DEPARTMENT, BACKFILL THE TRENCH FROM THE MEMBRANE WATERPROOFING TO BOTTOM OF PAVEMENT, EXCEPT THE OUTER 3 FT, WITH CONTROLLED LOW-STRENGTH MATERIAL ACCORDING TO SECTION 593.



LEGEND	
	POROUS GRANULAR EMBANKMENT
	POROUS GRANULAR MATERIAL (CA-7) (quantity of total PGE excludes CA 7, included with precast box culvert)

BILL OF MATERIAL

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	173.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	68.0
GEOCOMPOSITE WALL DRAIN	SQ YD	68.0

EXCAVATION DEPTHS	* SLOPES
5'-0" < EXCAVATION DEPTH <= 8'-0"	3/4' : 1'
8'-0" < EXCAVATION DEPTH <= 12'-0"	1' : 1'
12'-0" < EXCAVATION DEPTH <= 20'-0"	1' : 1'

MUST BE SLOPED FROM EXCAVATION BOTTOM OR SPECIAL DESIGN BY S.E. SEE ARTICLE 522.07 FOR TEMPORARY SOIL RETENTION SYSTEM

*SLOPED EXCAVATION IN TYPE A SOIL SHOWN PER APPENDIX B OF OSHA CFR LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

OPTIONAL CONFIGURATIONS MAY BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS CONTAINED IN THE CODE OF FEDERAL REGULATIONS LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 20700220

USER NAME = monjardnrrt	DESIGNED -	REVISED - TJB
	DRAWN -	REVISED - TJB
PLOT SCALE = 40.1191' / in.	CHECKED -	REVISED - TJB
PLOT DATE = 10/18/2021	DATE -	REVISED - 05/2020

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOC 1 SN 074-8066
POROUS GRANULAR EMBANKMENT**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	28

CONTRACT NO. 70755
ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 11/14/12

ROUTE FAS 1517 (US 150) DESCRIPTION 4 Miles West of Mansfield @ 40.229626N, 88.580196W LOGGED BY CNA

SECTION 11CR LOCATION SE, SEC. 36, TWP. 21N, RNG. 5E, 3rd PM GPS: 40.229663N, 88.580245W

COUNTY Platt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-8052E/8066P
Station 82+18.15
BORING NO. 2 NW Boring
Station 82+35
Offset 11.0 ft Lt.
Ground Surface Elev. 717.2 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DEPTH (ft)	UCS (tsf)	M O I S T (%)	DESCRIPTION	DEPTH (ft)	DEPTH (ft)	UCS (tsf)	M O I S T (%)
0	0			Asphalt Pavement (Widening)	0	0		
715.7	715.7			Brown to Black Clay Loam (Backfill)	9	9	3.5	10
		1						
		3	0.8					
		4	B					
711.2	711.2			Brown/Gray Mottled Silty Clay				
		4						
		3	0.7					
		2	B					
		2						
		2	0.6					
		3	B					
707.2	707.2			Gray Sandy Clay Loam Till				
		6						
		6	4.5					
		9	B					
		9						
		9	3.3					
		12	B					
		9						
		10	5.8					
		12	B					
		8						
		8	6.8					
		10	B					

12/12/2012 2:03:30 PM S:\SOIL 52012 SOIL WORK\SOIL BORINGS\174-8066.GPJ

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer E-Estimate)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 11/14/12

ROUTE FAS 1517 (US 150) DESCRIPTION 4 Miles West of Mansfield @ 40.229626N, 88.580196W LOGGED BY CNA

SECTION 11CR LOCATION SE, SEC. 36, TWP. 21N, RNG. 5E, 3rd PM GPS: 40.229663N, 88.580245W

COUNTY Platt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-8052E/8066P
Station 82+18.15
BORING NO. 2 NW Boring
Station 82+35
Offset 11.0 ft Lt.
Ground Surface Elev. 717.2 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	DEPTH (ft)	UCS (tsf)	M O I S T (%)	DESCRIPTION	DEPTH (ft)	DEPTH (ft)	UCS (tsf)	M O I S T (%)
0	0			Asphalt Pavement (Widening)	0	0		
715.7	715.7			Brown to Black Clay Loam (Backfill)	9	9	3.5	10
		1						
		3	0.8					
		4	B					
711.2	711.2			Brown/Gray Mottled Silty Clay				
		4						
		3	0.7					
		2	B					
		2						
		2	0.6					
		3	B					
707.2	707.2			Gray Sandy Clay Loam Till				
		6						
		6	4.5					
		9	B					
		9						
		9	3.3					
		12	B					
		9						
		10	5.8					
		12	B					
		8						
		8	6.8					
		10	B					

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An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer E-Estimate)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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USER NAME = morjandnrt	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

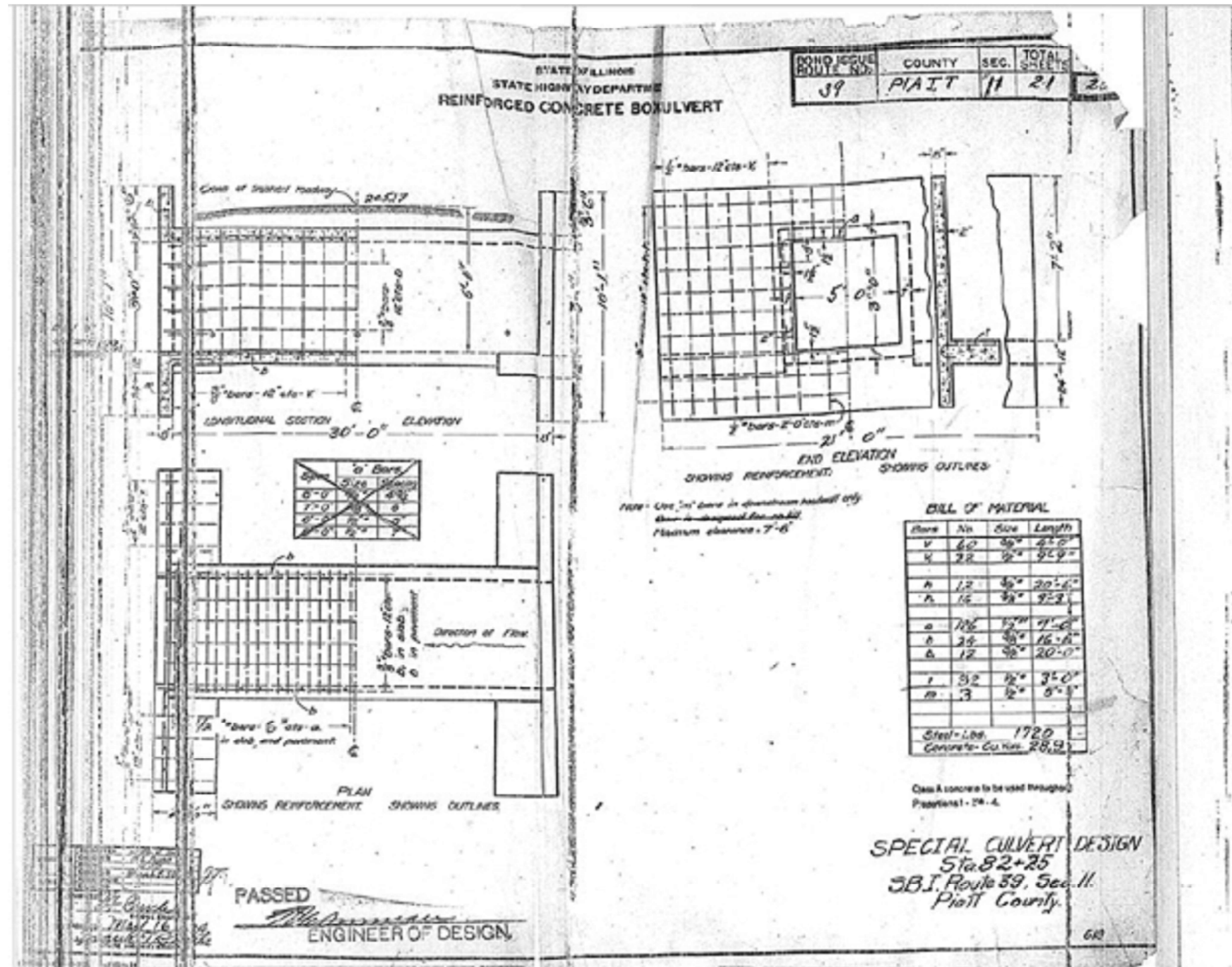
LOC 1 SN 074-8066
SOIL BORING LOGS

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	29
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

NOTE: THIS AS-BUILT PLAN SHEET IS FROM THE ORIGINAL 1925 PLANS.

FOR INFORMATION ONLY



FOR INFORMATION ONLY

MODEL: \\MODEL\MAT\...
FILE NAME: ...

USER NAME = monjardnrrt	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC 1 SN 074-8052 (EX)
AS BUILT PLAN

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	30
				CONTRACT NO. 70755
ILLINOIS FED. AID PROJECT				

BENCHMARK: 4911-1, Chiseled square on top of 60" Concrete Pipe under railroad south of U.S. 150, Station 129+30.00, 52.80' RT Elevation= 717.41'

Existing Structure: S.N 074-8054 was constructed sometime in late 1970s at Sta. 128+72.09 as 72" CMP at F.A.S. Route 1517. The existing structure is to be completely removed and replaced. The road is to be temporarily closed during construction.

INDEX OF SHEETS

1. General Plan and Elevation
- 2-3. Box Culvert End Section Details
4. Bar Splicer Assembly Details
5. Porous Granular Embankment Detail
6. Soil Boring Logs

GENERAL NOTES

The design fill height for this box is 1.0 feet. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material under the precast concrete box culvert, according to Section 540.06 of the Standard Specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

CULVERT CONSTRUCTION SEQUENCE

1. Remove existing structure
2. Build cutoff wall
3. Prepared bed
4. Place precast box culvert sections
5. Form and place concrete in end section
6. Drive sheeting
7. Backfill culvert and wings
8. Install sheet pile cap

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
 Customary U.S. Units, 9th Edition

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS

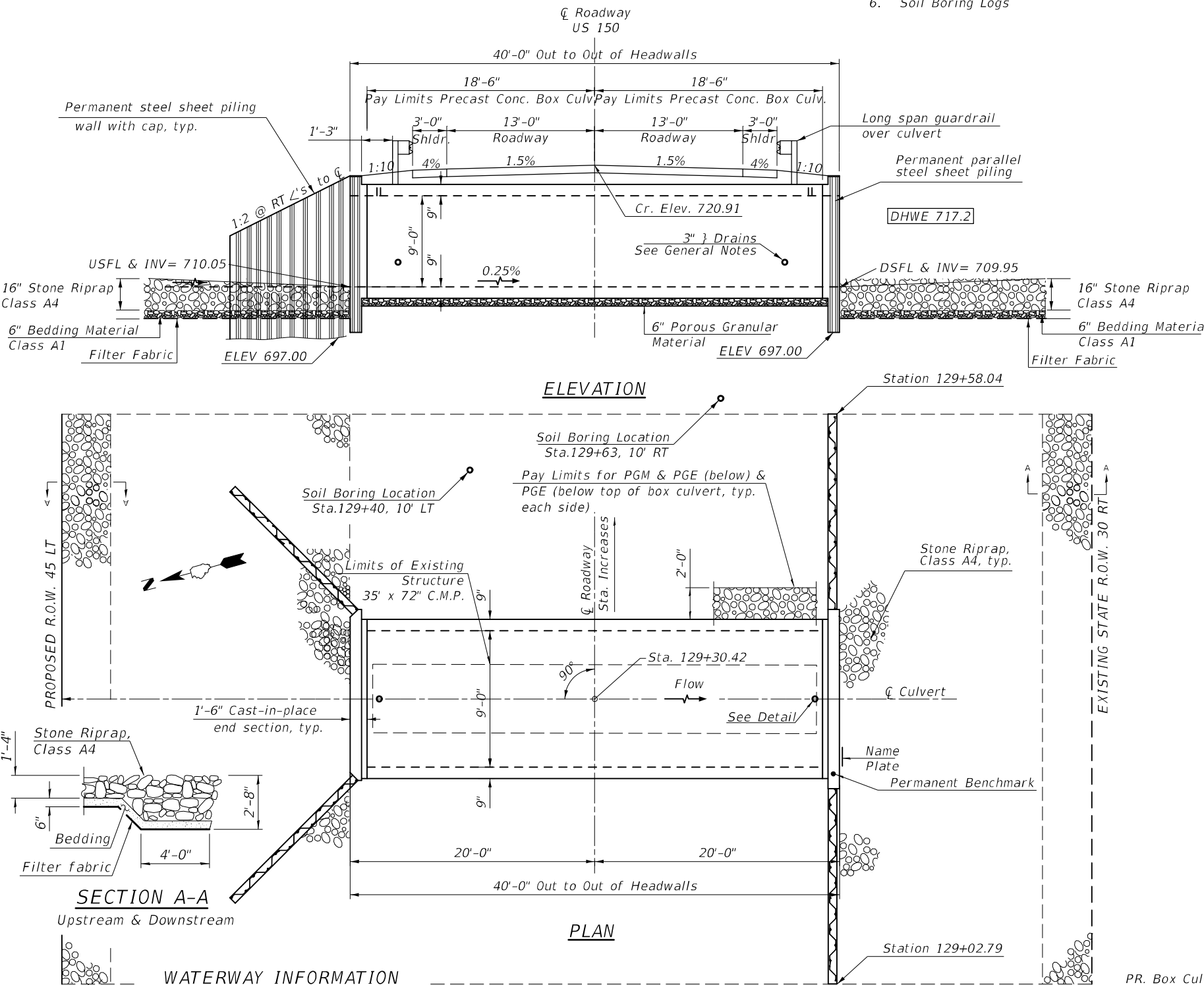
$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 38,000$ psi (Permanent Sheet Piling)
 $f_y = 50,000$ psi (AASHTO M270, Grade 50W)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures, No. 2	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 2	Each	2.0
Precast Concrete Box Culverts, 9' x 9'	Foot	37.0
Porous Granular Embankment	Cu. Yd.	161.0
Membrane Waterproofing for Buried Str.	Sq. Yd.	53.0
Geocomposite Wall Drain	Sq. Yd.	53.0



MODEL: 4100161.MXD
 FILE: 4100161.dwg
 PROJECT: D:\Projects\10570755\CADD\DATA\CADD\Sheet\10570755-RT-GPE-074-8067

WATERWAY INFORMATION

		Existing Low Grade Elev. = 720.82 ft. @ Sta. 130+32		Proposed Low Grade Elev. = 720.82 ft. @ Sta. 130+32			
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Existing	Natural H.W.E. Proposed	Head - Ft. Existing	Headwater Elevation Existing	Proposed
Design	10	263	39	50		717.9	715.7
Base	50	421	43	65		720.0	717.2
Overtop (Exist)	100	491	43	71		Over	717.9
Max. Calc.	87	473	43			720.8	
	500	658	43	81		Over	719.5

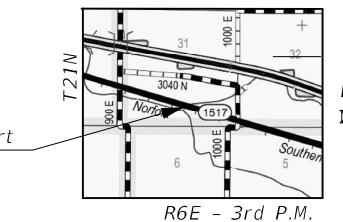
YEAR VELOCITY THROUGH EXISTING BRIDGE = 10.96 fps 10 YEAR VELOCITY THROUGH PROPOSED BRIDGE 6.1 fps

USER NAME = monjardlnt	DESIGNED -	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STATION 129+30.42
 BUILT 2021 BY
 STATE OF ILLINOIS
 F.A.S. 1517 SEC. 11CR
 LOADING HL-93
 STR. NO. 074-8067

NAME PLATE
 See Std. 515001



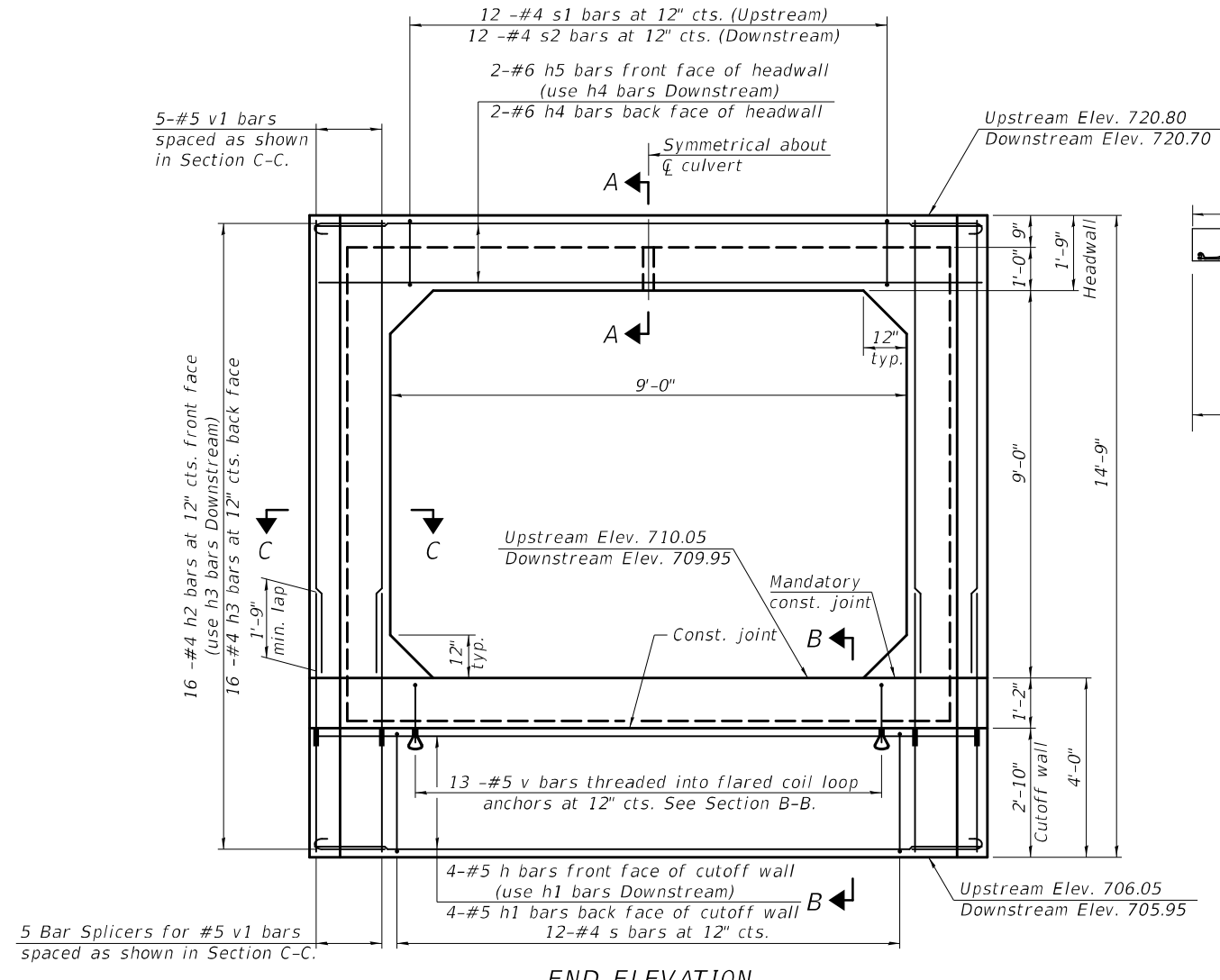
LOCATION SKETCH

**LOC 2 SN 074-8067
 GENERAL PLAN & ELEVATION**

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

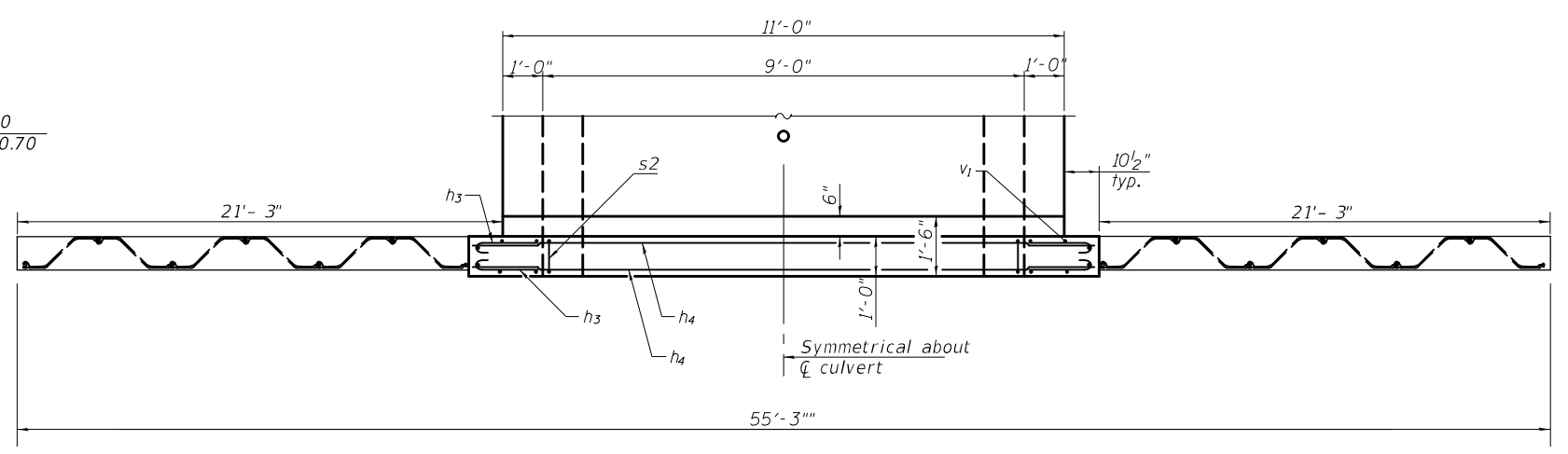
**GENERAL PLAN AND ELEVATION
 SINGLE 9' X 9' PRECAST BOX CULVERT
 RTE. US 150
 F.A.S. 1517 SEC. 11CR
 PIATT COUNTY
 STATION 129+30.42
 S.N. 074-8067**

F.A.S. RTE. 1517	SECTION 11CR	COUNTY PIATT	TOTAL SHEETS 62	SHEET NO. 31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70755	

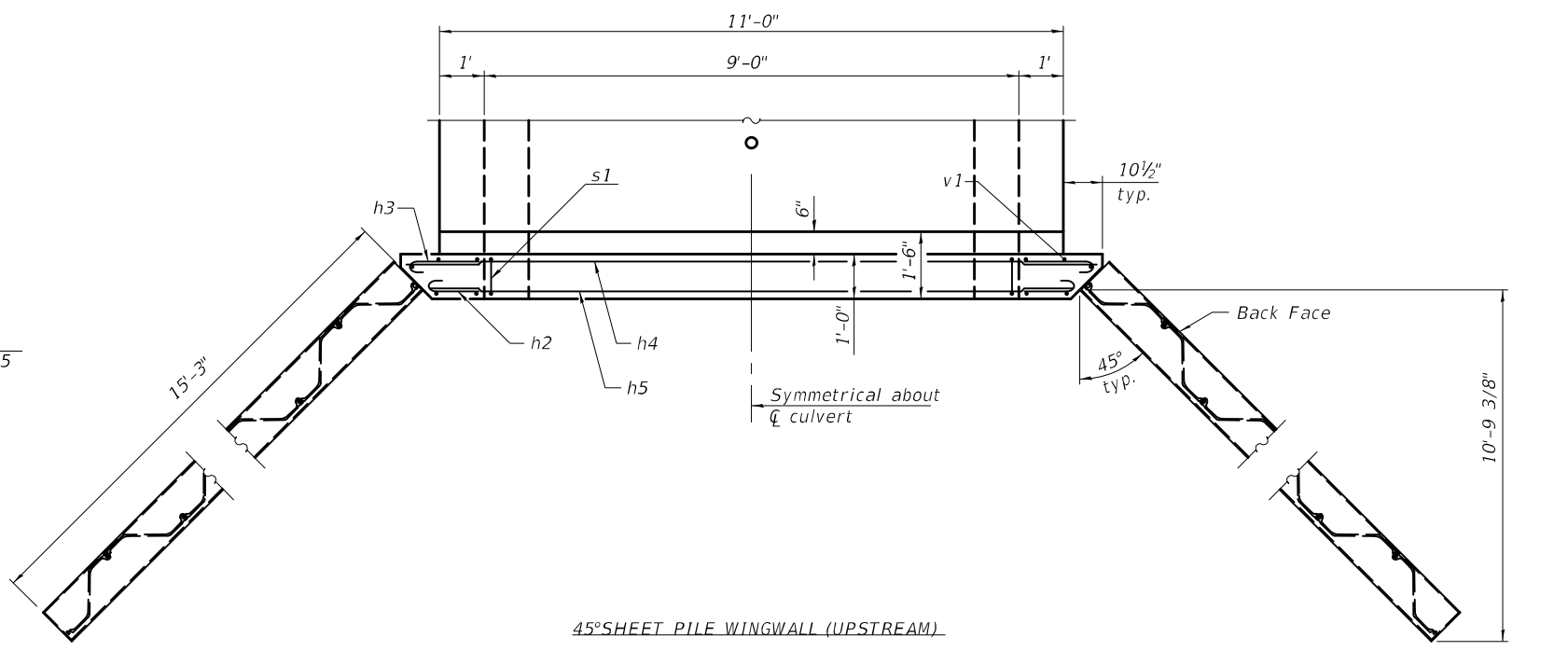


END ELEVATION

(Wingwalls omitted in this view for clarity.)



PARALLEL SHEET PILE WINGWALL (DOWNSTREAM)



PLAN

45° SHEET PILE WINGWALL (UPSTREAM)

Note:
 The design fill height for this structure is 1 feet.
 The precast concrete box culvert sections shall conform to the standard designs of ASTM C 1577.
 The box culvert end section shall be built in the field and a precast option is not allowed except the cutoff wall may be precast. If the Contractor elects to use a precast cutoff wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval.
 Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b).

The ends of the precast box sections adjacent to the end section shall be formed without male and female shapes.
 The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.
 Tilt h2 and h3 bars as required to maintain clearance.
 Extend precast concrete box culvert welded wire reinforcement into end section. Bend as necessary to provide 1 1/2" clear cover.
 See sheet 2 of 6 for Section A-A, B-B and C-C.

BILL OF MATERIAL

Item	Unit	Total
Box Culvert End Sections, Culvert No. 2	Each	2

CIPES-SCB-PSSP-ZS 8-11-2017

(Sheet 1 of 2)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC 2 SN 074-8067
END SECTION DETAIL

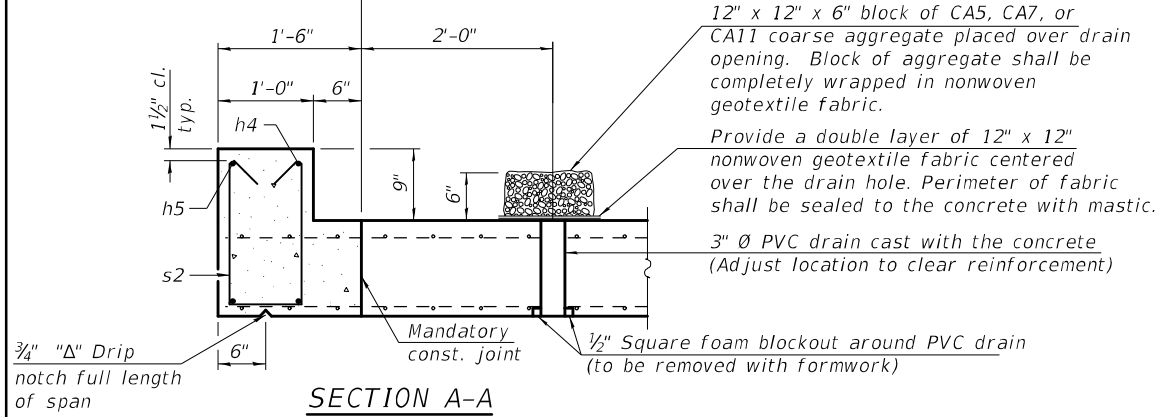
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	32

CONTRACT NO. 70755

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

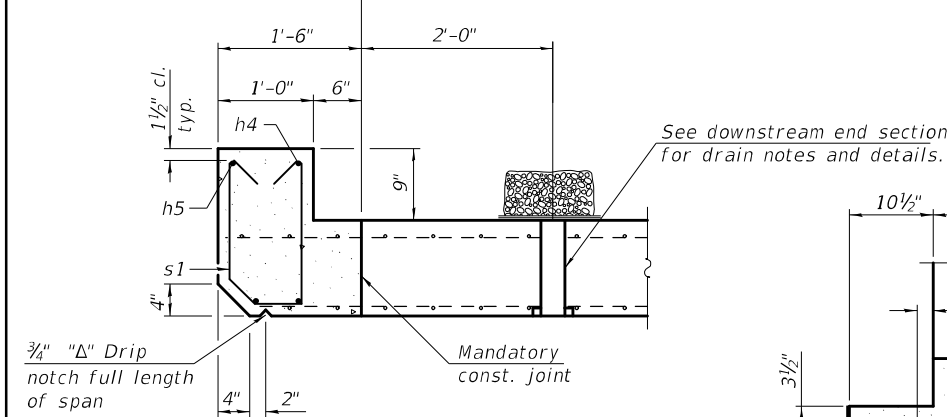
Pay Limits for Box Culvert End Sections
Pay Limits for Precast Concrete Box Culverts



SECTION A-A
(Downstream End)

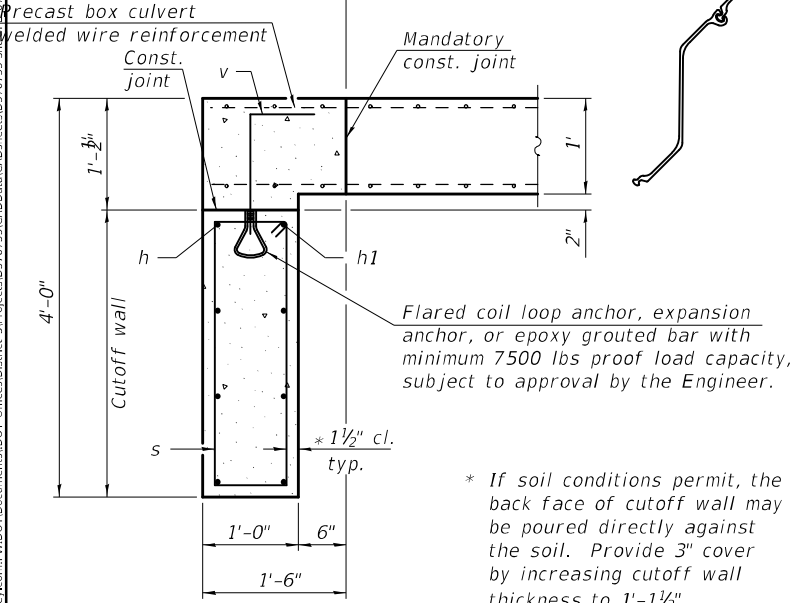
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

Pay Limits for Box Culvert End Sections
Pay Limits for Precast Concrete Box Culverts



SECTION A-A
(Upstream End)

Pay Limits for Box Culvert End Sections
Pay Limits for Precast Concrete Box Culverts



SECTION B-B

Flared coil loop anchor, expansion anchor, or epoxy grouted bar with minimum 7500 lbs proof load capacity, subject to approval by the Engineer.

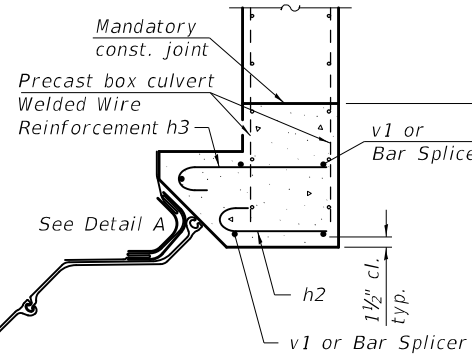
* If soil conditions permit, the back face of cutoff wall may be poured directly against the soil. Provide 3" cover by increasing cutoff wall thickness to 1'-1 1/2".

12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

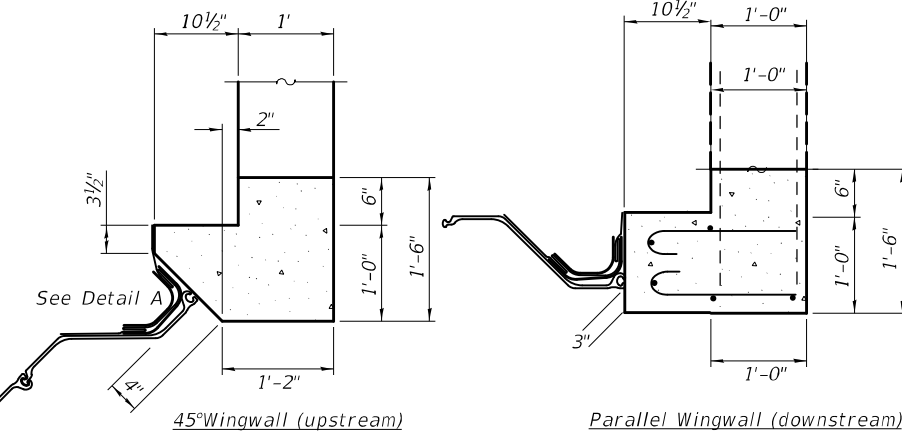
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic.

3" Ø PVC drain cast with the concrete (Adjust location to clear reinforcement)

1/2" Square foam blockout around PVC drain (to be removed with formwork)



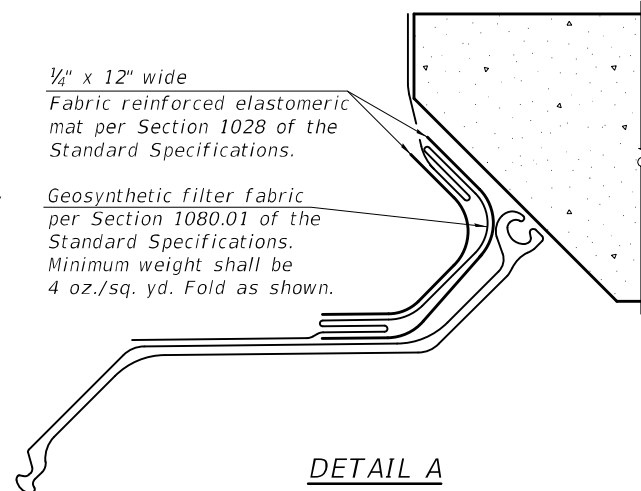
SECTION C-C
(Showing reinforcement)



SECTION C-C
(Showing dimensions)

1/4" x 12" wide Fabric reinforced elastomeric mat per Section 1028 of the Standard Specifications.

Geosynthetic filter fabric per Section 1080.01 of the Standard Specifications. Minimum weight shall be 4 oz./sq. yd. Fold as shown.



DETAIL A

DOWNSTREAM SECTION
BILL OF MATERIAL
(For information only)

Bar	No.	Size	Length	Shape
h1	8	#5	12'-5"	—
h2	32	#4	1'-7"	U
h3	64	#4	2'-0"	U
h4	4	#6	12'-5"	—
s	12	#4	7'-5"	U
s2	12	#4	4'-6"	U
v	13	#5	1'-11"	—
v1	10	#5	9'-6"	—
Concrete Box Culverts			Cu. Yd.	3.8
Reinforcement Bars			Pound	484
Bar Splicers			Each	10
Total Permanent Sheet Piling			Sq. Ft.	1,007.25

UPSTREAM SECTION
BILL OF MATERIAL
(For information only)

Bar	No.	Size	Length	Shape
h	4	#5	11'-2"	—
h1	4	#5	12'-5"	—
h2	32	#4	1'-7"	U
h3	32	#4	2'-0"	U
h4	2	#6	12'-5"	—
h5	2	#6	11'-2"	—
s	12	#4	7'-5"	U
s1	12	#4	4'-4"	U
v	13	#5	1'-11"	—
v1	10	#5	9'-6"	—
Concrete Box Culverts			Cu. Yd.	3.8
Reinforcement Bars			Pound	467
Bar Splicers			Each	10
Total Permanent Sheet Piling			Sq. Ft.	650.87

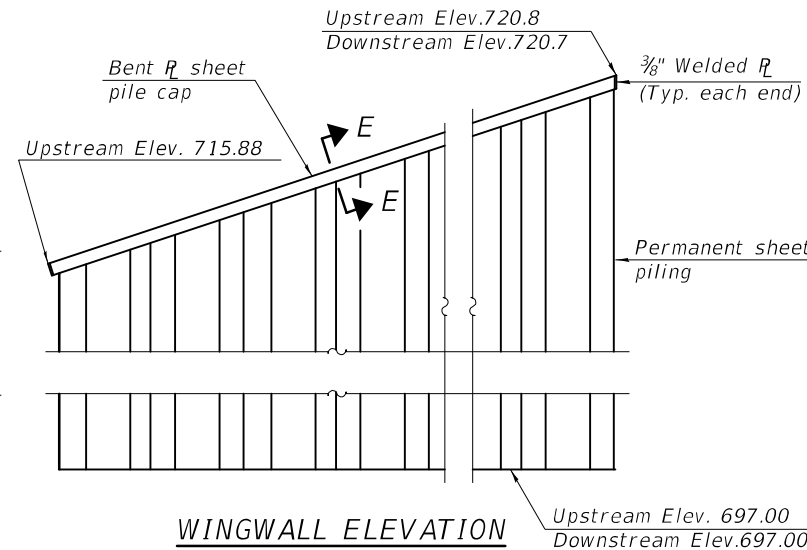
Notes:

The minimum effective section modulus of the permanent sheet pile wall shall be 35 in.³/ft.

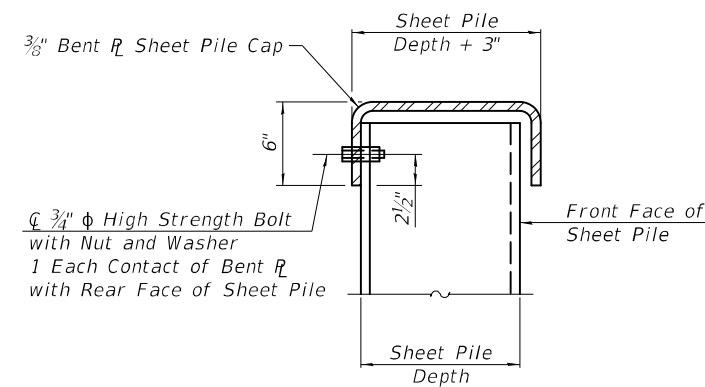
Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

The contractor will need appropriate driving equipment to achieve the required minimum tip elevations.

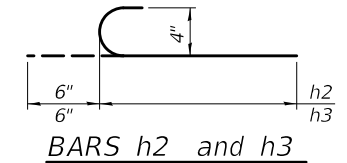
The cost of furnishing and installing the bent R sheet pile cap, elastomeric mat, and filter fabric shall be included in the cost of the end section.



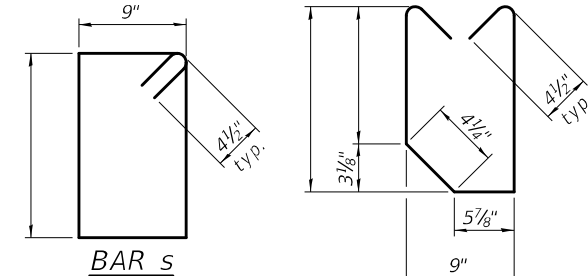
WINGWALL ELEVATION



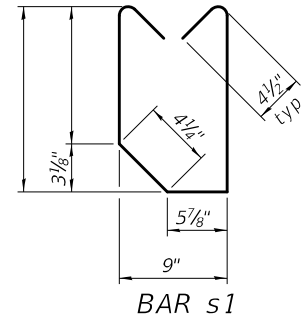
SECTION E-E



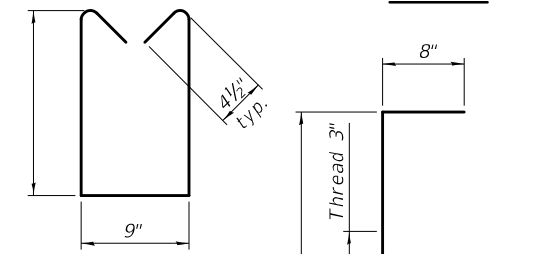
BARS h2 and h3



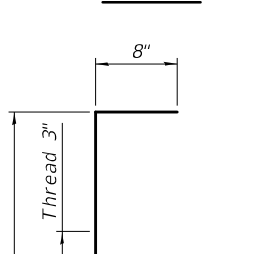
BAR s



BAR s1



BAR s2



BAR v

CIPES-PSSP-ZS-DETAILS 8-11-2017

USER NAME	DESIGNED	REVISED
= monjadrirt	-	-
DRAWN	-	-
CHECKED	-	-
DATE	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC 2 SN 074-8067
END SECTION DETAIL

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	33
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

(Sheet 2 of 2)

MODEL: SHODLNAME
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PROJECT: 070755\CADD\DOT\Office\BentR\Sheet 2 of 2.dwg
DATE: 8/11/2017

The diameter of this part is the same as the diameter of the bar spliced.

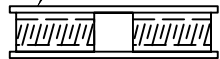
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



** ONE PIECE

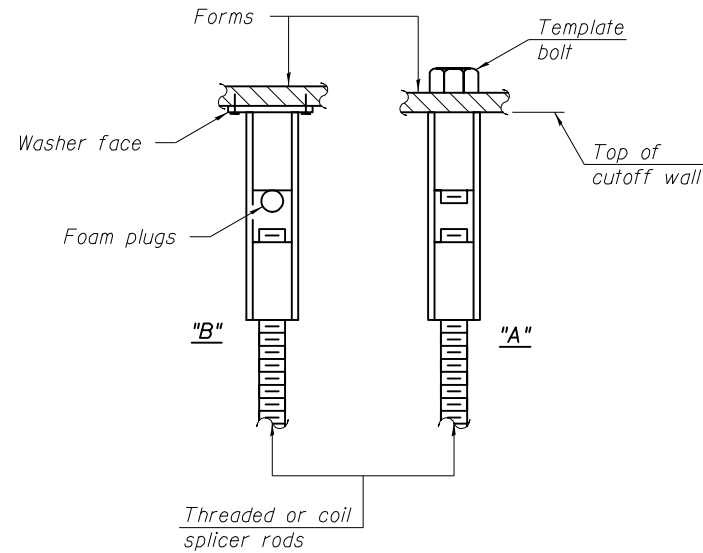
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

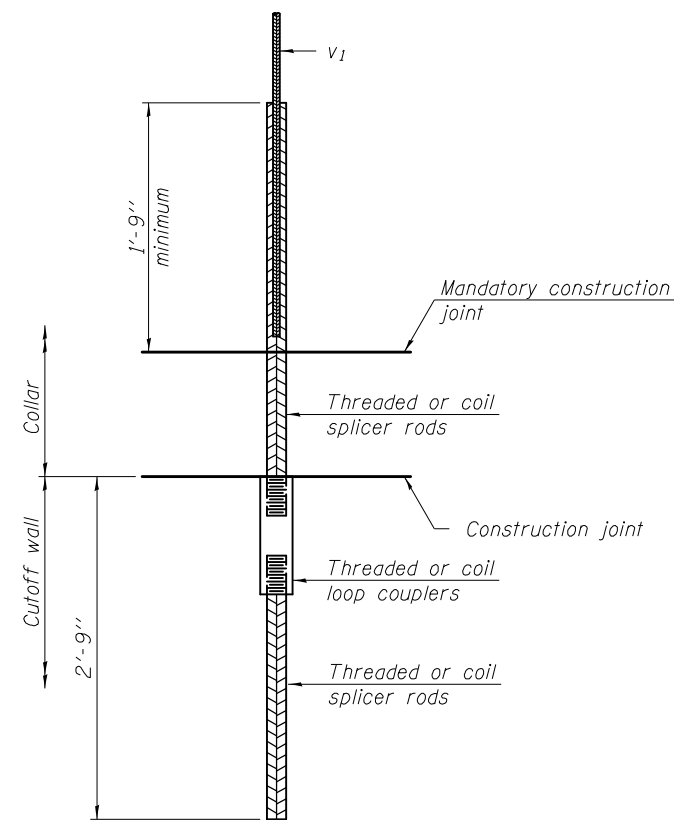
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
- ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required = 20	



FOR BOX CULVERT END SECTIONS

MODEL: SHODLEMMLES
 FILE NAME: boxculvert.dwg
 USER: monjerdinrt
 DESIGNED: -
 DRAWN: -
 CHECKED: -
 DATE: -
 PLOT SCALE = 2,0032' / in.
 PLOT DATE = 10/18/2021

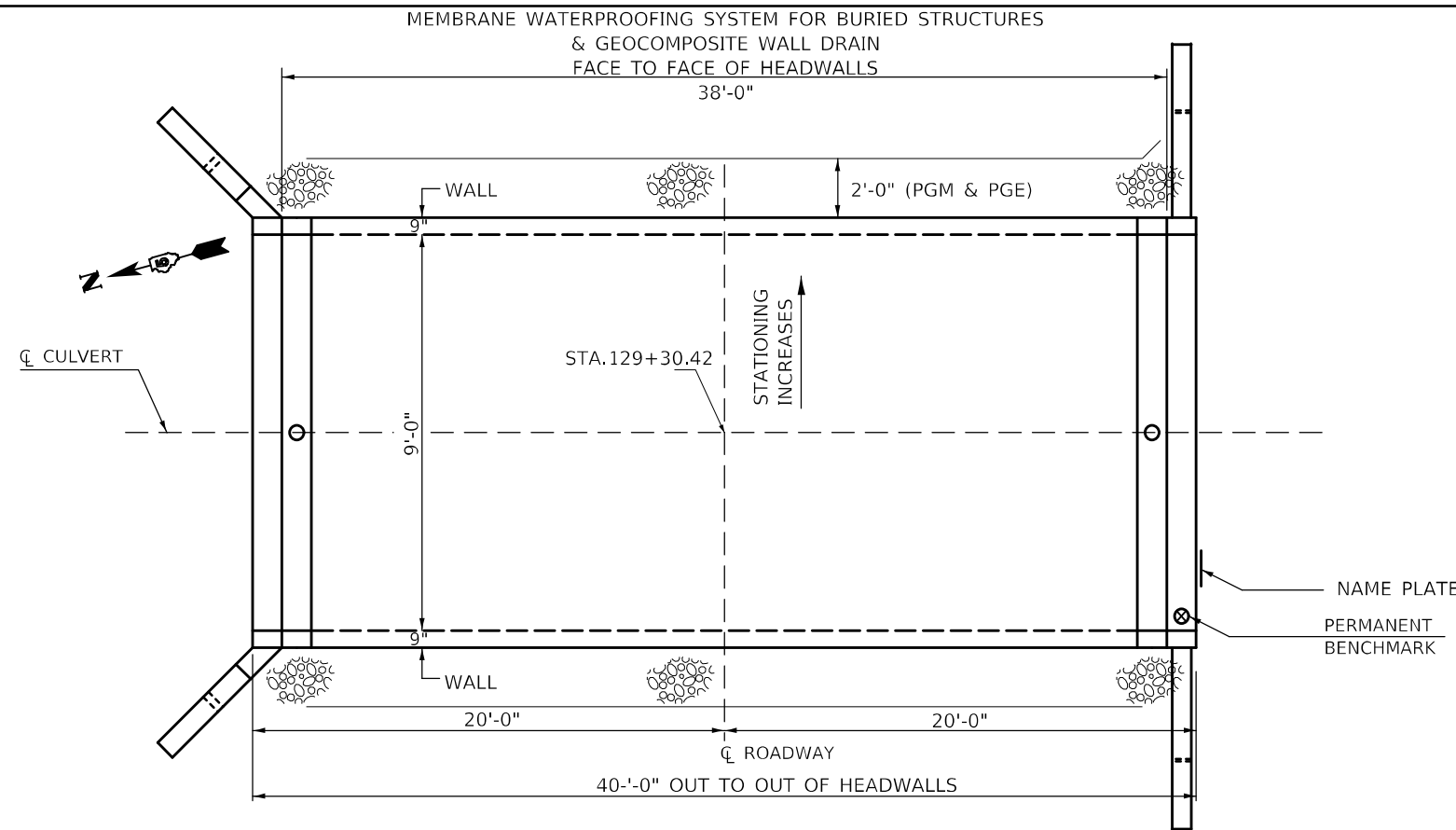
USER NAME = monjerdinrt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

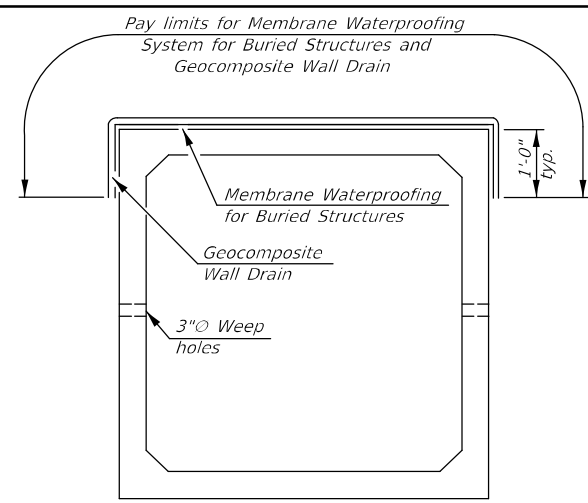
**LOC 1 SN 074-8067
 BAR SPLICER ASSEMBLY DETAILS**

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	34
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				



PLAN



PRECAST CONCRETE BOX CULVERT

Fill Height ≤ 3 ft.
For fill heights > 3 ft., omit Membrane Waterproofing System for Buried Structures and Geocomposite Wall Drain

Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures

MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

SEE SPECIAL PROVISIONS

POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

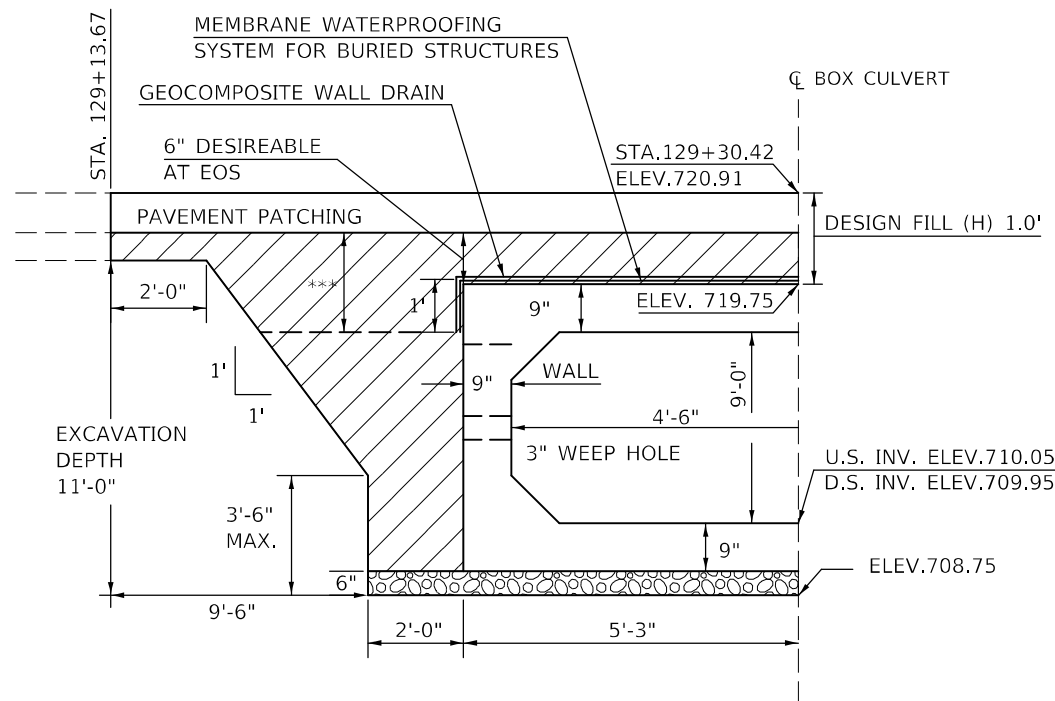
THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

THE COARSE AGGREGATE QUALITY SHALL BE CLASS D OR BETTER AND THE GRADATION SHALL BE CA-6 OR CA-10.

POROUS GRANULAR EMBANKMENT WILL BE MEASURED FOR PAYMENT IN CUBIC YARDS, IN PLACE AS SHOWN. IF THE CONTRACTOR CHOOSES TO EXCAVATE BEYOND THE LIMITS SHOWN, ADDITIONAL QUANTITIES OF POROUS GRANULAR EMBANKMENT WILL BE AT HIS/HER OWN EXPENSE.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT AND END SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH PRECAST CONCRETE BOX CULVERTS.

IN LIEU OF POROUS GRANULAR EMBANKMENT, THE CONTRACTOR MAY, AT NO ADDITIONAL COST TO THE DEPARTMENT, BACKFILL THE TRENCH FROM THE MEMBRANE WATERPROOFING TO BOTTOM OF PAVEMENT, EXCEPT THE OUTER 3 FT, WITH CONTROLLED LOW-STRENGTH MATERIAL ACCORDING TO SECTION 593.



BILL OF MATERIAL

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	161.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	53.0
GEOCOMPOSITE WALL DRAIN	SQ YD	53.0

EXCAVATION DEPTHS	* SLOPES
5'-0" < EXCAVATION DEPTH <= 8'-0"	3/4' : 1'
8'-0" < EXCAVATION DEPTH <= 12'-0"	1' : 1'
12'-0" < EXCAVATION DEPTH <= 20'-0"	1' : 1'

MUST BE SLOPED FROM EXCAVATION BOTTOM OR SPECIAL DESIGN BY S.E. SEE ARTICLE 522.07 FOR TEMPORARY SOIL RETENTION SYSTEM

*SLOPED EXCAVATION IN TYPE A SOIL SHOWN PER APPENDIX B OF OSHA CFR LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

OPTIONAL CONFIGURATIONS MAY BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS CONTAINED IN THE CODE OF FEDERAL REGULATIONS LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

LEGEND

	POROUS GRANULAR EMBANKMENT
	POROUS GRANULAR MATERIAL (CA-7) (quantity of total PGE excludes CA 7, included with precast box culvert)

USER NAME = monjardnrrt	DESIGNED -	REVISED - TJB
	DRAWN -	REVISED - TJB
PLOT SCALE = 40.1275' / in.	CHECKED -	REVISED - TJB
PLOT DATE = 10/18/2021	DATE -	REVISED - 05/2020

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOC 2 SN 074-8067
POROUS GRANULAR EMBANKMENT**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 20700220

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	35
CONTRACT NO. 70755				

ILLINOIS FED. AID PROJECT

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SOIL BORING LOG

Page 1 of 1

ROUTE FAS 1517 (US 150) DESCRIPTION 2.5 Miles West of Mansfield @ 40.226023N, 88.564008W LOGGED BY CNA

SECTION 11CR LOCATION SE, SEC. 31, TWP. 21N, RNG. 6E, 3rd PM GPS: 40.225988N, 88.563973W

COUNTY Platt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-8054E/8067P
Station 129+30.42
BORING NO. 1 SE Boring
Station 29+63
Offset 10.0 ft Rt.
Ground Surface Elev. 720.9 ft

DEPTH (ft)	DEPTH (ft)	DESCRIPT	BLW (blows)	UCS (%)	DESCRIPT	BLW (blows)	UCS (%)
719.4		Asphalt Widening					
718.9	4	Black Silty Clay Loam (Backfill)				10	
714.9	4	Brown to Gray Mottled Silty Clay	26			10	2.9 15
714.9	3	Brown Clay Loam Till				9	B
693.9	4	Gray Hard Sandy Clay Loam Till	12				
690.9	11					11	
710.9	8	Gray Clay Loam Till	11			16	11
700.9	10	End of Boring				16	
	6						
	6		4.0	11			
	7		S				
	5						
	7		5.8	11			
	9		B				
	5						
	7		4.9	12			
	9		B				
	5						
	11		4.7	12			
	10		B				

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrator E-Estimate)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE FAS 1517 (US 150) DESCRIPTION 2.5 Miles West of Mansfield @ 40.226023N, 88.564008W LOGGED BY CNA

SECTION 11CR LOCATION SE, SEC. 31, TWP. 21N, RNG. 6E, 3rd PM GPS: 40.226068N, 88.564073W

COUNTY Platt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-8054E/8067P
Station 129+30.42
BORING NO. 2 NW Boring
Station 29+40
Offset 10.0 ft Lt.
Ground Surface Elev. 720.9 ft

DEPTH (ft)	DEPTH (ft)	DESCRIPT	BLW (blows)	UCS (%)	DESCRIPT	BLW (blows)	UCS (%)
719.4		Asphalt Pavement (Widening)					
714.9		Brown Mottled Clay Loam (Backfill)					
714.9	2					2	0.6 19
714.9	4					2	B
714.9	1	Brown Clay Loam Till					
693.9	2					3	1.6 14
690.9	3						
710.9	4	Gray Clay Loam Till					
710.9	5					5	3.3 12
710.9	6					6	B
700.9	5	End of Boring					
	6						
	6		3.1	12			
	6		S				
	5						
	5		2.9	13			
	6		B				
	5						
	7		2.7	13			
	7		B				

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrator E-Estimate)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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USER NAME = <u>monjerdint</u>	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = <u>2,0032' / in.</u>	CHECKED -	REVISED -
PLOT DATE = <u>10/18/2011</u>	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

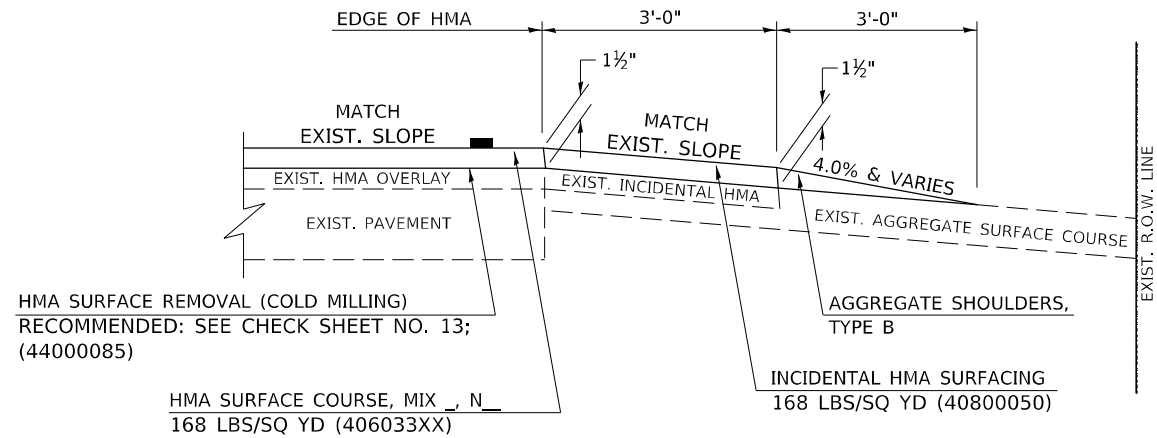
LOC 2 SN 074-8067 SOIL BORING LOGS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

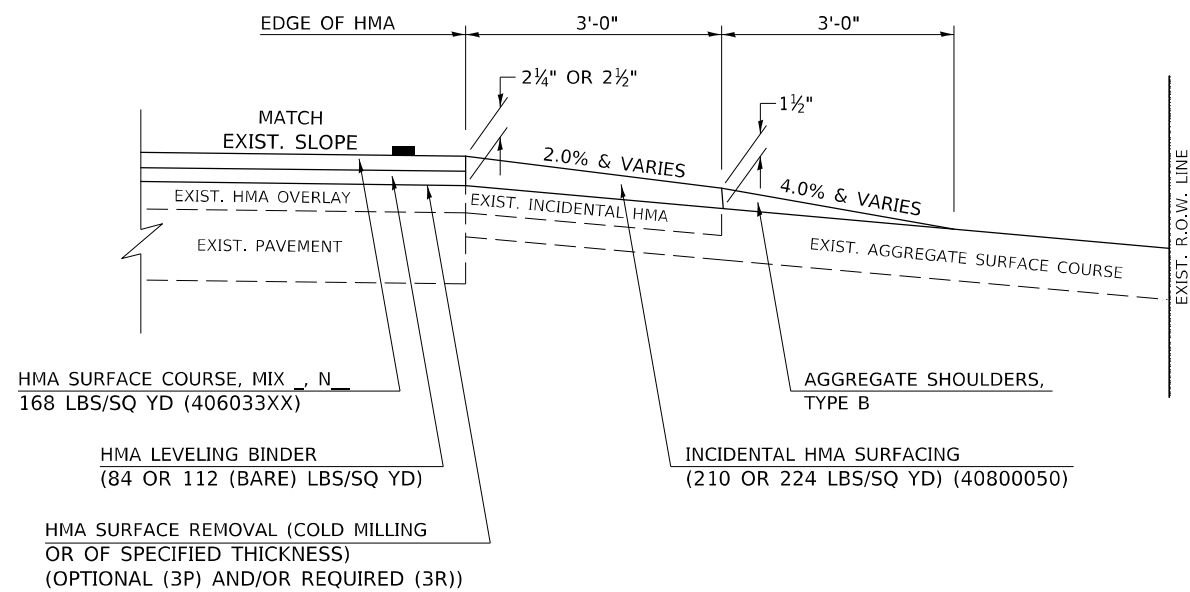
F.A.S. RTE. <u>1517</u>	SECTION <u>11CR</u>	COUNTY <u>PIATT</u>	TOTAL SHEETS <u>62</u>	SHEET NO. <u>36</u>
CONTRACT NO. <u>70755</u>			ILLINOIS FED. AID PROJECT	

PROJECTS WITHOUT RECONSTRUCTION
 ("3R" WITHOUT RECONSTRUCTION, 3P, SMART AND CM)

S.M.A.R.T. IMPROVEMENTS
 (POLICY RESURFACING; BDE 53-4.03; 1½")

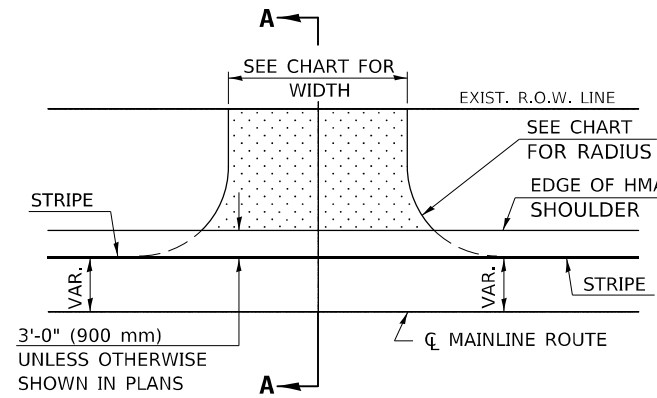


"3P" OR "3R" IMPROVEMENTS
 (POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)



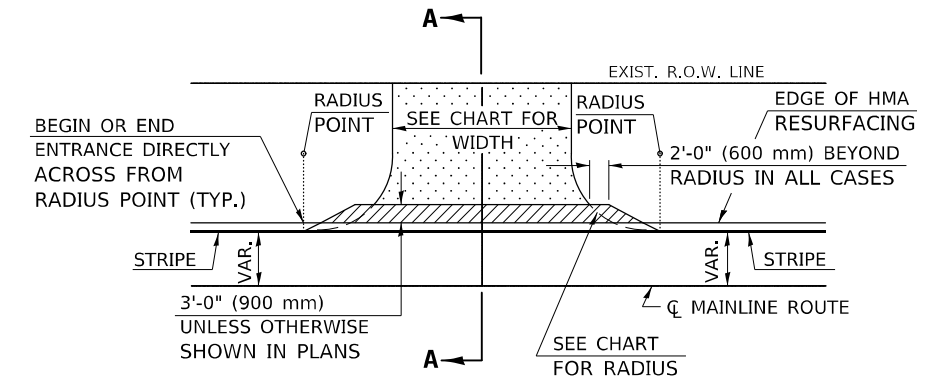
PROJECTS WITH RECONSTRUCTION
 ("3R" IMPROVEMENTS AND SMART/3P "SPOT" LOCATIONS)

ADJACENT TO PROPOSED HMA SHOULDERS
 (AGGREGATE OR EARTH ENTRANCE)

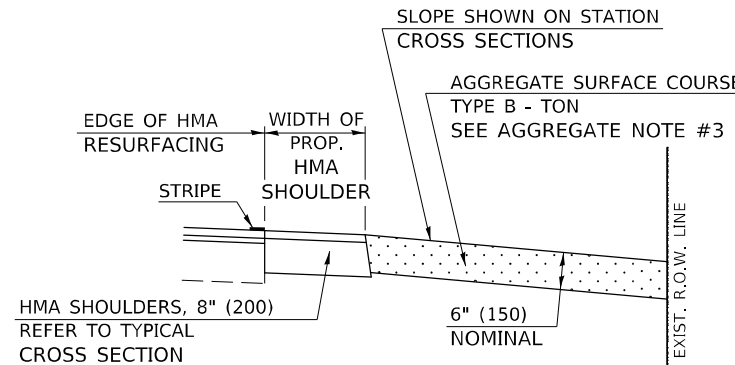


TYPICAL APPLICATION

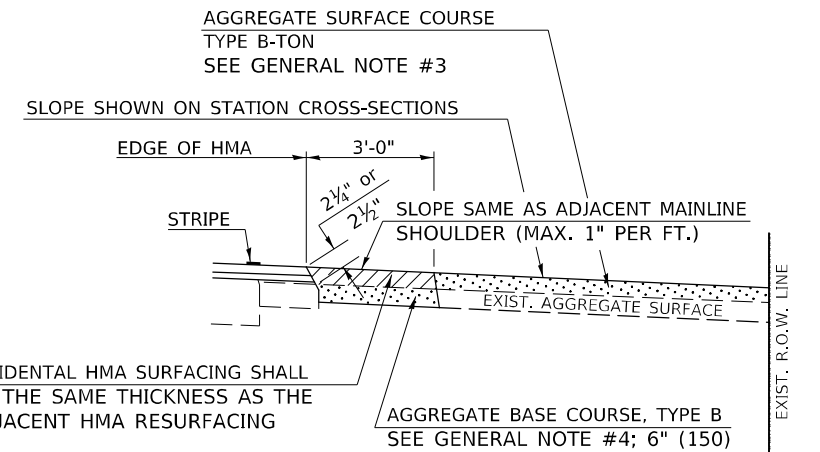
EXISTING AGGREGATE OR EARTH ENTRANCE



TYPICAL APPLICATION



SECTION A-A



SECTION A-A

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 40800050A

USER NAME = mojnardnrrt	DESIGNED -	REVISED - 12/06 TJB
	DRAWN -	REVISED - 09/07 KAG
PLOT SCALE = 40.2231' / in.	CHECKED -	REVISED - 04/08 KJT
PLOT DATE = 10/18/2021	DATE -	REVISED - 3/16/17 SWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD ENTRANCES (NONCOMMERCIAL RURAL)

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

MODEL: S:\MODEL\NAMES
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GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 ALONG WITH DISTRICT PROJECT IMPLEMENTATION MEMORANDUM 104/01 DISCUSS THIS PROCEDURE.

RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)															
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with CONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM								
	NONCOMMERCIAL						NONCOMMERCIAL								
	PRIVATE & FIELD			FIELD W/FARM IMPLEMENTS			COMMERCIAL			PRIVATE & FIELD			COMMERCIAL		
	min.	des.	max.	min.	max.		min.	des.	max.	min.	des.	max.	min.	des.	max.
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY						1 LANE, 1 WAY			
						14	16	24							
						2 LANE, 2 WAY						2 LANE, 2 WAY			
						24	30	35	resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them						
RADIUS (FT)	15	25	40	30		20	30	50							
SHOULDER WIDTH (FT)	2	2		2		1	3								
SHOULDER SLOPE (%)	2	4	6	4		2	4	6							
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10							
SIDE SLOPE (FT)	1:4	1:6	1:10	1:4	1:6	1:4	1:6	1:10							
SURFACE TYPE															
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" to minimize aggregate shoulder						
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable, use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02						
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8							

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 40800050A

USER NAME = monjardnrrt	DESIGNED -	REVISED - 12/06 TJB
	DRAWN -	REVISED - 09/07 KAG
PLOT SCALE = 40,2231' / in.	CHECKED -	REVISED - 04/08 KJT
PLOT DATE = 10/18/2021	DATE -	REVISED - 3/16/17 SWN

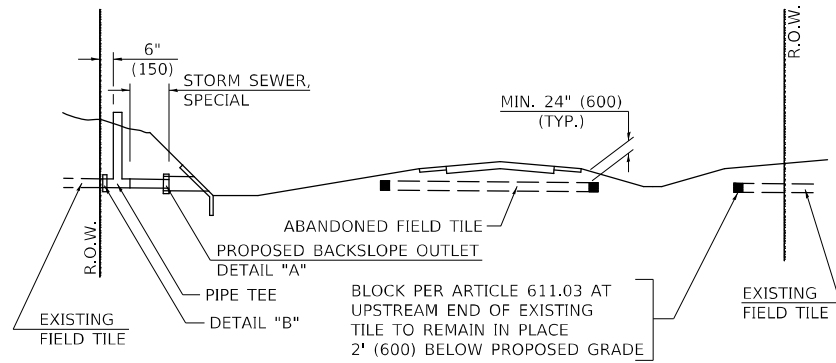
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD ENTRANCES (NONCOMMERCIAL RURAL)

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

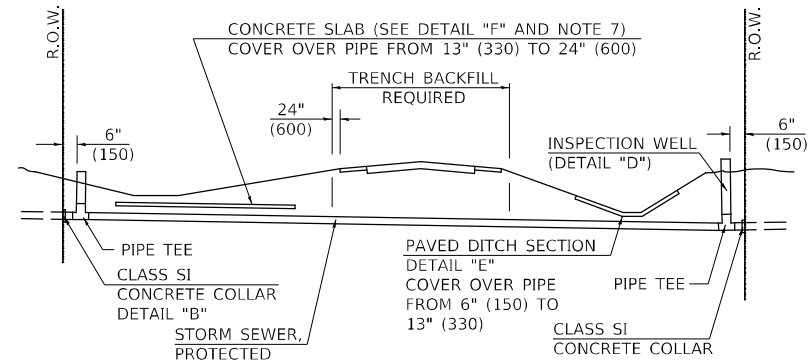
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	38
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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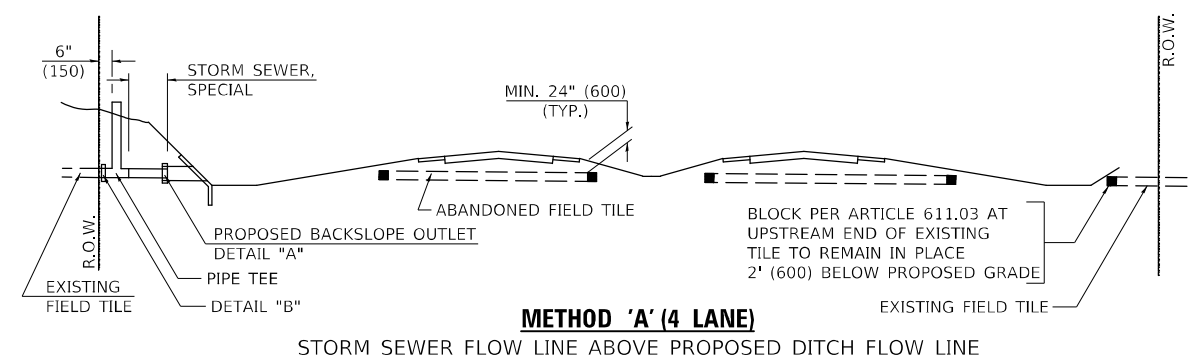
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



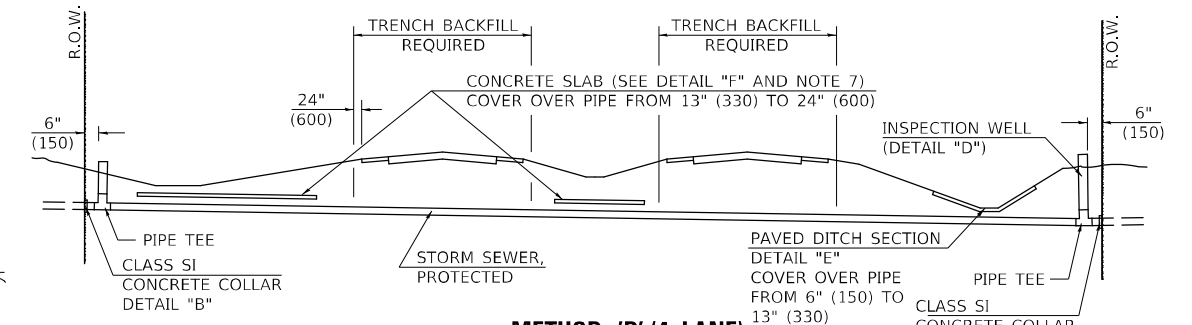
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



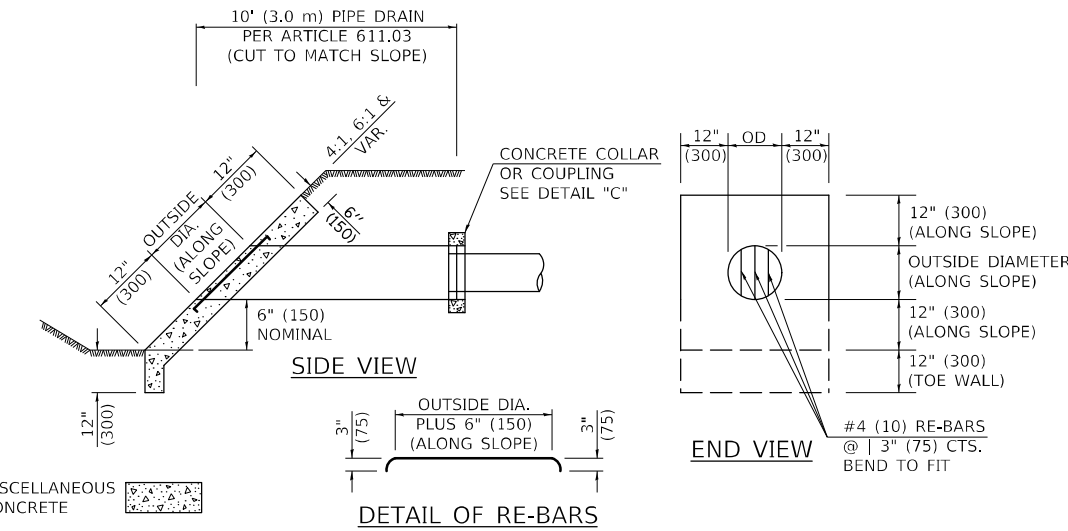
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

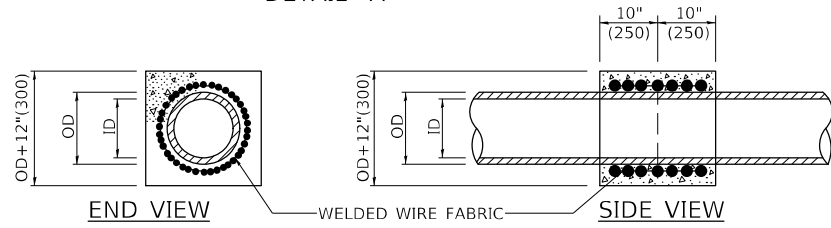


METHOD 'B' (4 LANE)

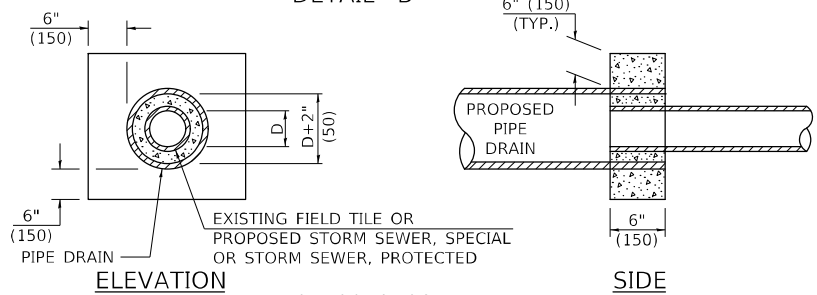
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



**HEADWALL FOR BACKSLOPE OUTLET
DETAIL "A"**



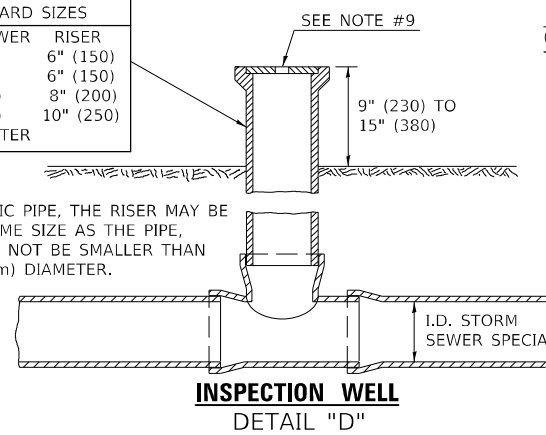
**CONCRETE COLLAR
DETAIL "B"**



**CLASS SI COLLAR
DETAIL "C"**

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	8" (200)
OR GREATER	10" (250)

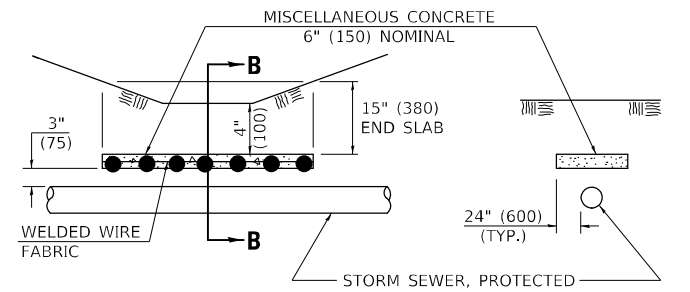
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL
DETAIL "D"**

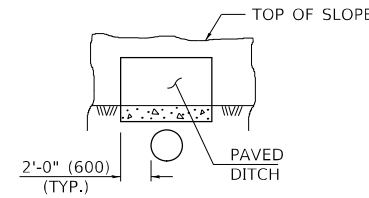
GENERAL NOTES

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



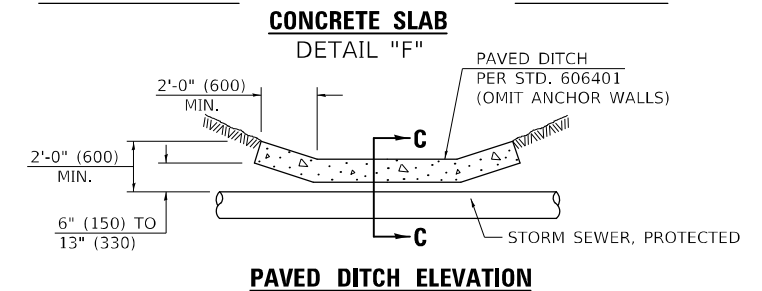
SLAB ELEVATION

SECTION B-B



SECTION C-C

**PAVED DITCH
DETAIL "E"**



**CONCRETE SLAB
DETAIL "F"**

PAVED DITCH ELEVATION

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 61101011A

USER NAME = monjardnrt	DESIGNED -	REVISED - 11/06
PLOT SCALE = 40,0035' / in.	DRAWN -	REVISED -
PLOT DATE = 10/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

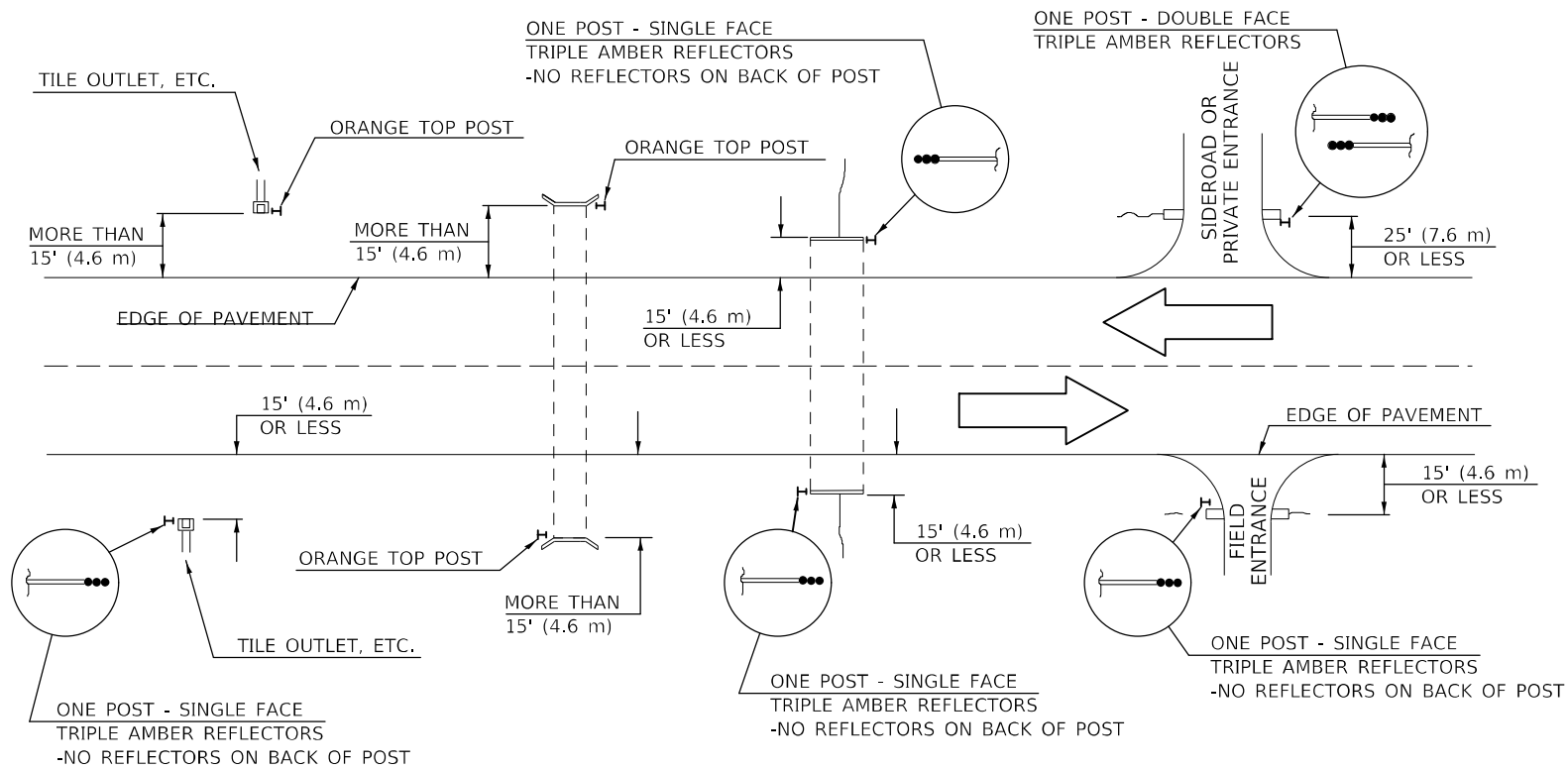
FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	39
				CONTRACT NO. 70755
		ILLINOIS	FED. AID PROJECT	

MODEL: 140821.MXFS
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PROJECT: 05707350.CADD\DATA\CADD\DETAILS\05707350-403_CADD_Detail_Sheets

IDENTIFICATION OF ROADSIDE HAZARDS FOR TWO-LANE ROADWAYS

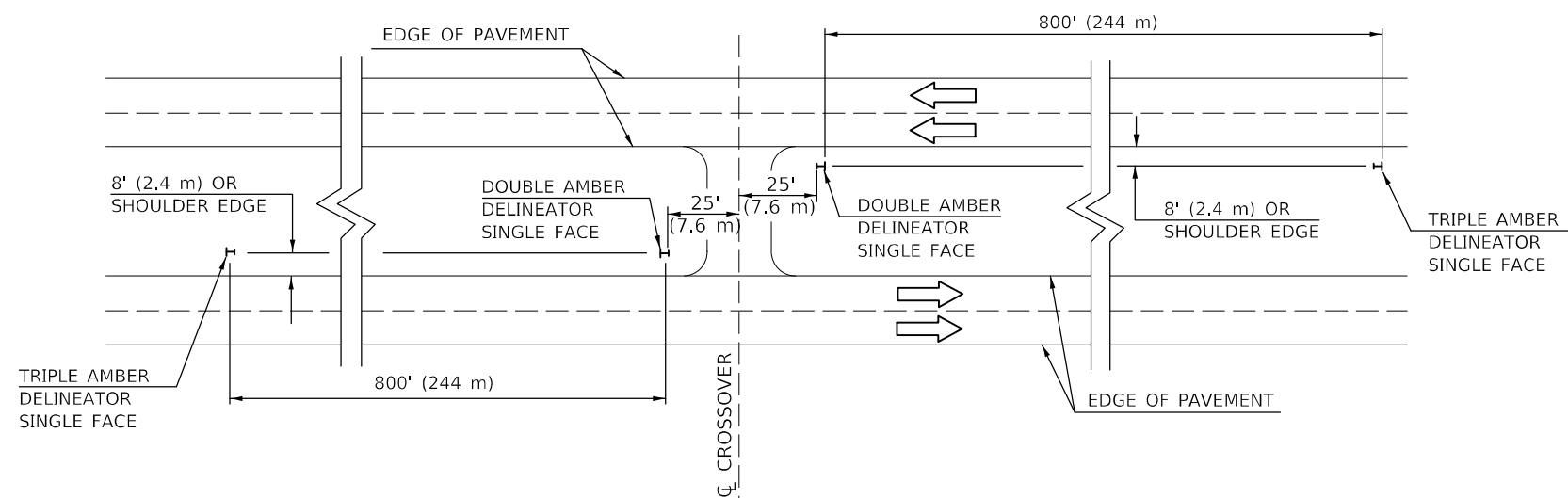


BILL OF MATERIALS

DELINEATOR TYPE	SINGLE FACE	DOUBLE FACE	NO REFLECTOR	TOTAL DELINEATORS
SINGLE CRYSTAL		N/A	N/A	
DOUBLE CRYSTAL			N/A	
SINGLE AMBER			N/A	
DOUBLE AMBER		N/A	N/A	
TRIPLE AMBER			N/A	
ORANGE TOP	N/A	N/A		
			TOTAL	

MEDIAN DELINEATORS AT CROSSOVER

(FOR INTERSTATES, EXPRESSWAYS, DUAL HIGHWAYS)



NOTES

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE THERE IS NO GUARDRAIL, OR OTHER PERMANENT BARRIER, ON THE SAME SIDE OF ROAD AS THE HAZARD.

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE DELINEATORS ARE NOT IN PLACE ALONG THE EDGE OF SHOULDER.

EACH POST SHALL BE CONSIDERED AS ONE DELINEATOR FOR PAYMENT, REGARDLESS OF THE NUMBER OF DELINEATORS ATTACHED TO IT.

POSTS INDICATED AS "ORANGE TOP" SHALL HAVE NO REFLECTORS. THEY SHALL HAVE THE TOP 12" (300 mm) (MINIMUM) OF THE POST PAINTED A BRIGHT ORANGE COLOR SIMILAR TO CONSTRUCTION SIGNS. AND SHALL MEET THE APPROVAL OF THE ENGINEER. FLUORESCENT PAINT OR OTHER SPECIAL RETROREFLECTIVE COATINGS WILL NOT BE REQUIRED.

FOR ONE-WAY ROADWAYS THE APPLICATION SHALL BE SIMILAR WITH DELINEATORS PLACED ON THE TRAFFIC APPROACH SIDE OF HAZARDS AND OBJECTS. ONLY SINGLE FACE DELINEATORS WILL BE REQUIRED ON ONE-WAY ROADWAYS.

FOR OTHER DELINEATOR APPLICATIONS, REFER TO HIGHWAY STANDARD 635001.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 63500105

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PLOT SCALE = 40.1108' / in.	DRAWN -	REVISED -
PLOT DATE = 10/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DELINEATORS

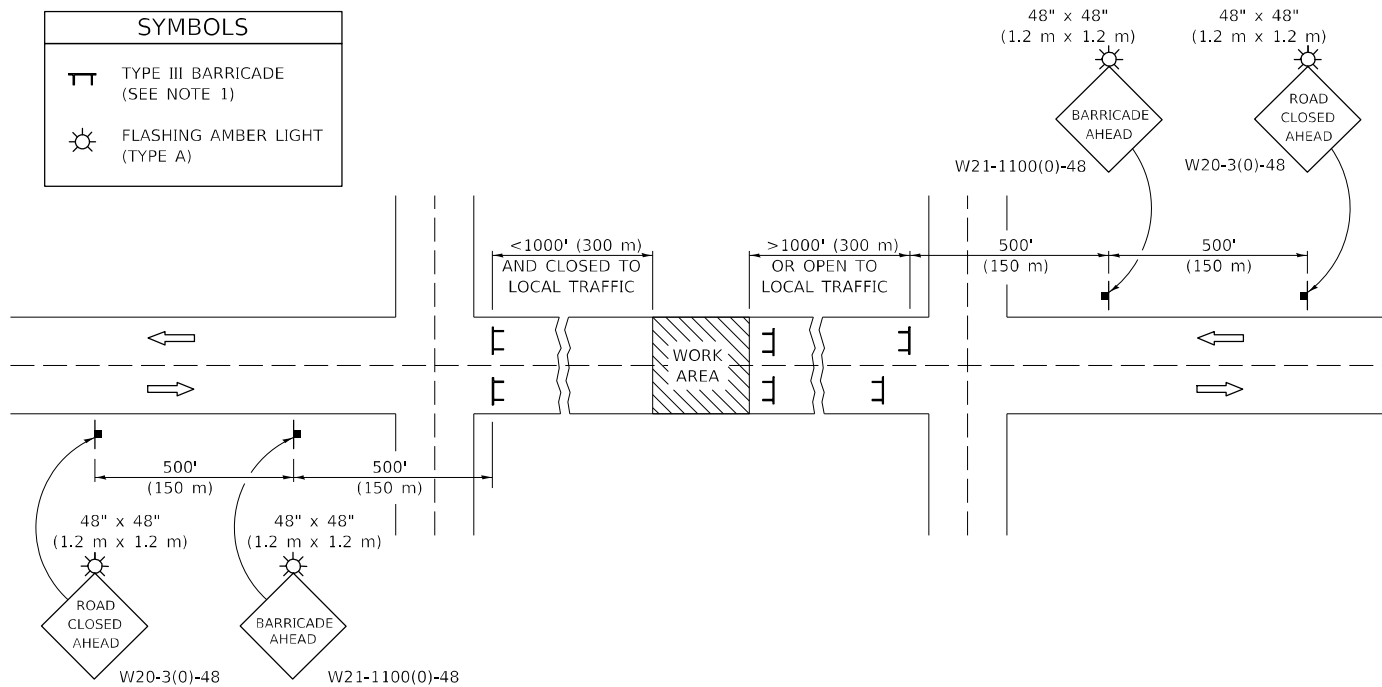
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

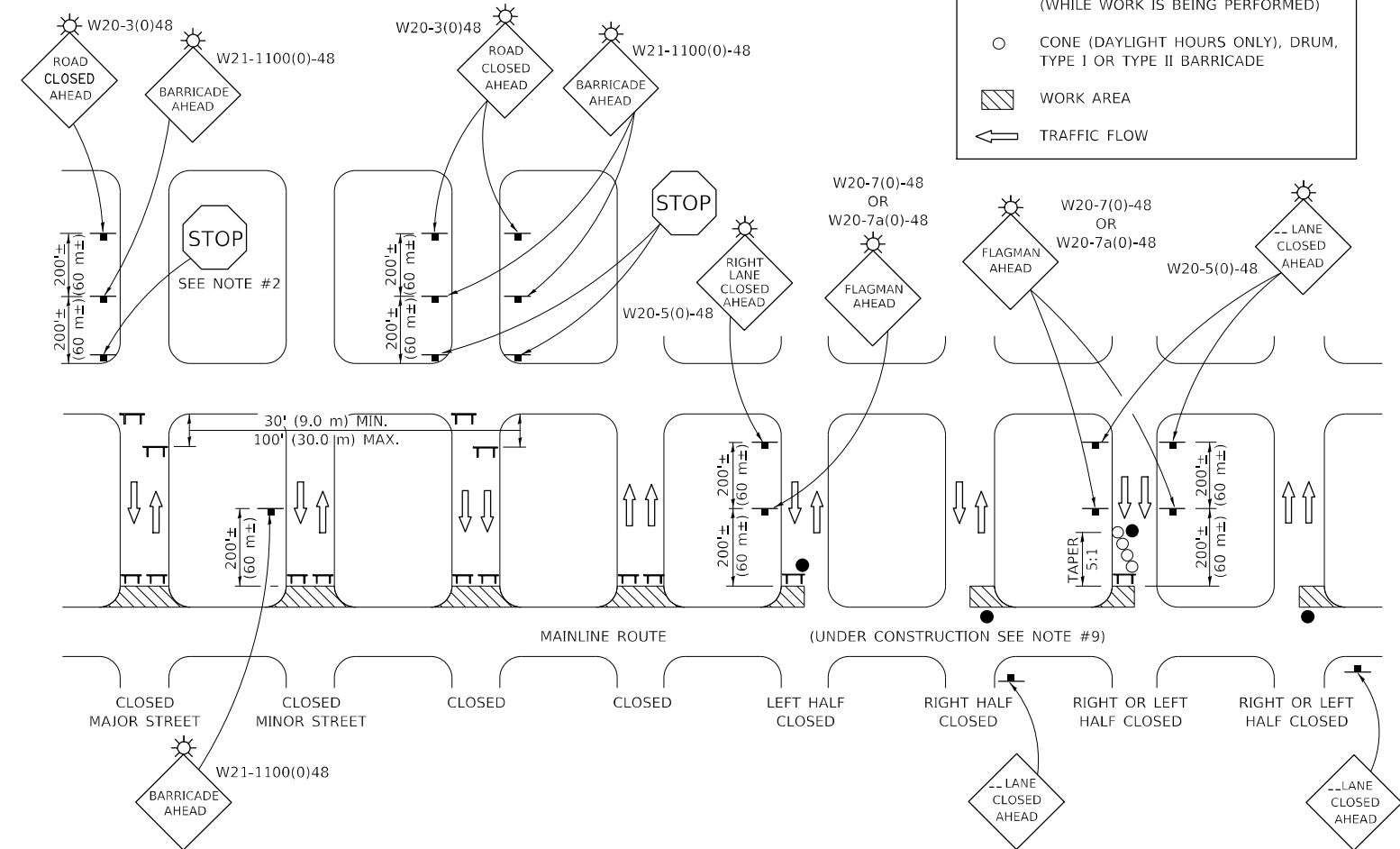
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7020000

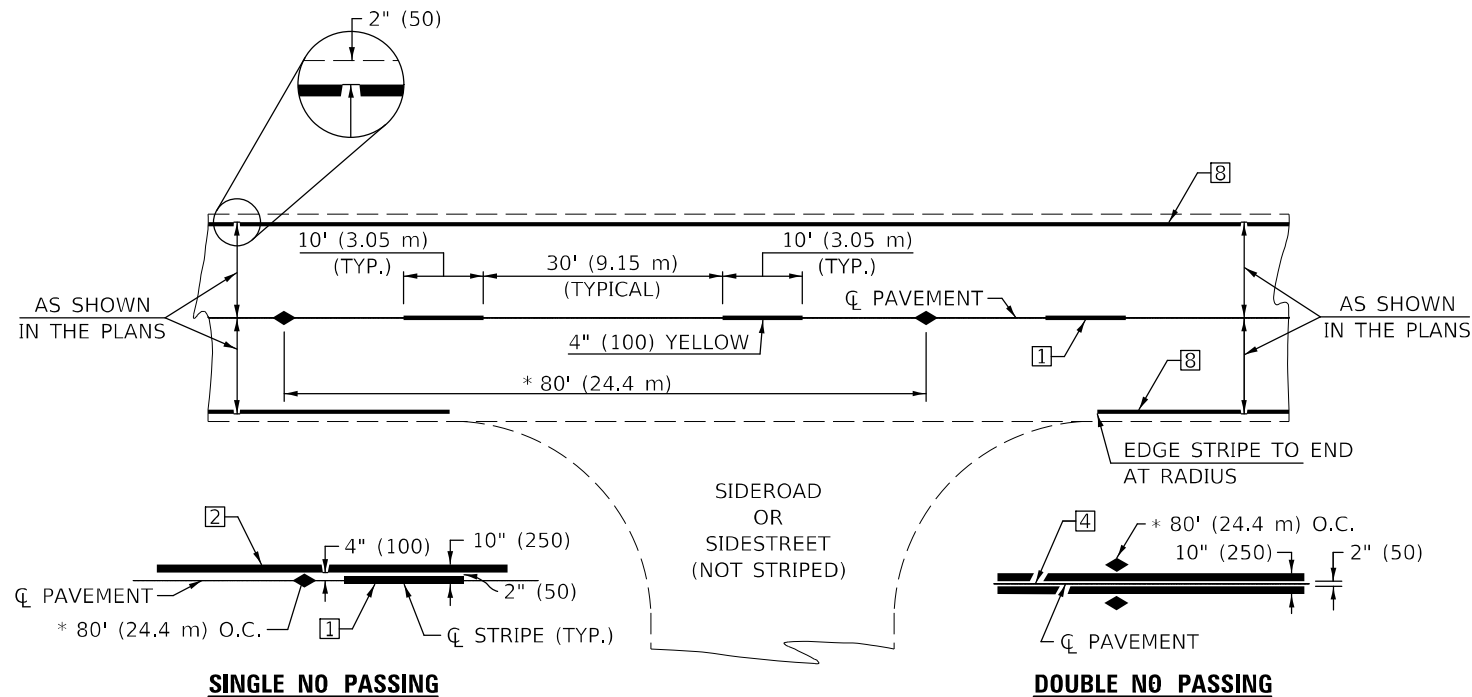
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	DRAWN -	REVISED - 12/07
PLOT SCALE = 40.0170' / in.	CHECKED -	REVISED - 09/09 KJT
PLOT DATE = 10/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD / STREET CLOSURES)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

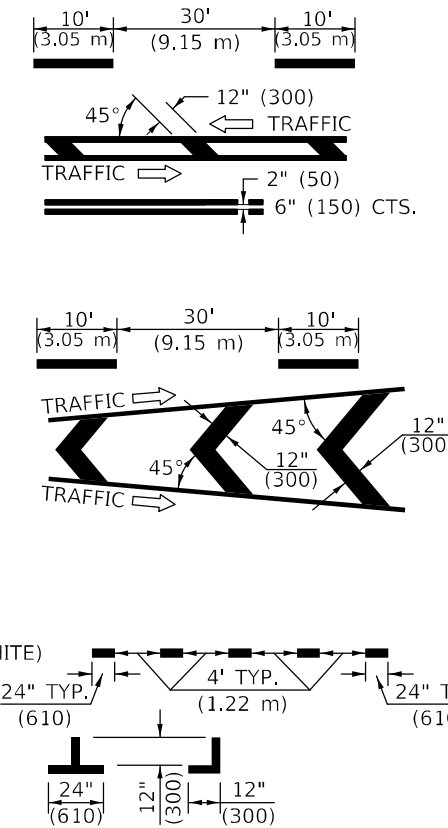


TYPICAL PAVEMENT MARKING LEGEND

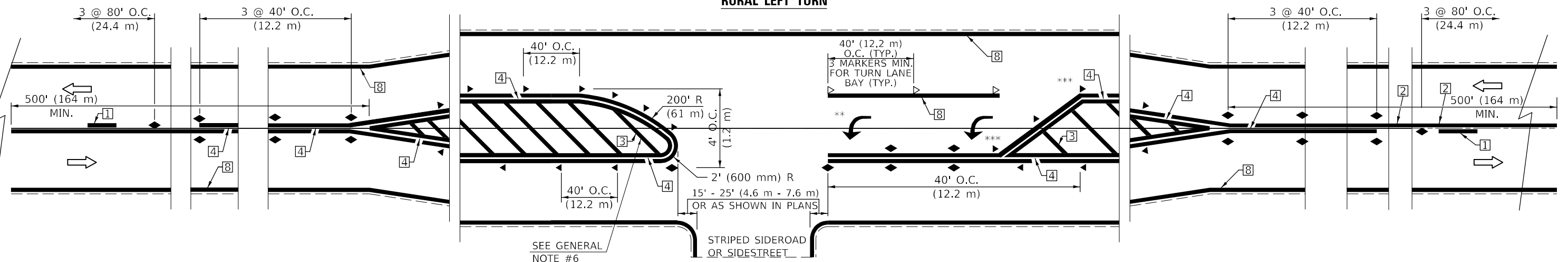
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



RURAL LEFT TURN



- *** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.
- ** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: S:\02\BENAMES FILE: 151172\Drawings\151172\Drawings\DOT_Offices\Drawings\151172\Drawings\DOT_05-18-2021_CADD_Details_Sheets

USER NAME = monjardnrrt	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
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PLOT DATE = 10/18/2021	DATE -	REVISED - 3/2019 SWN

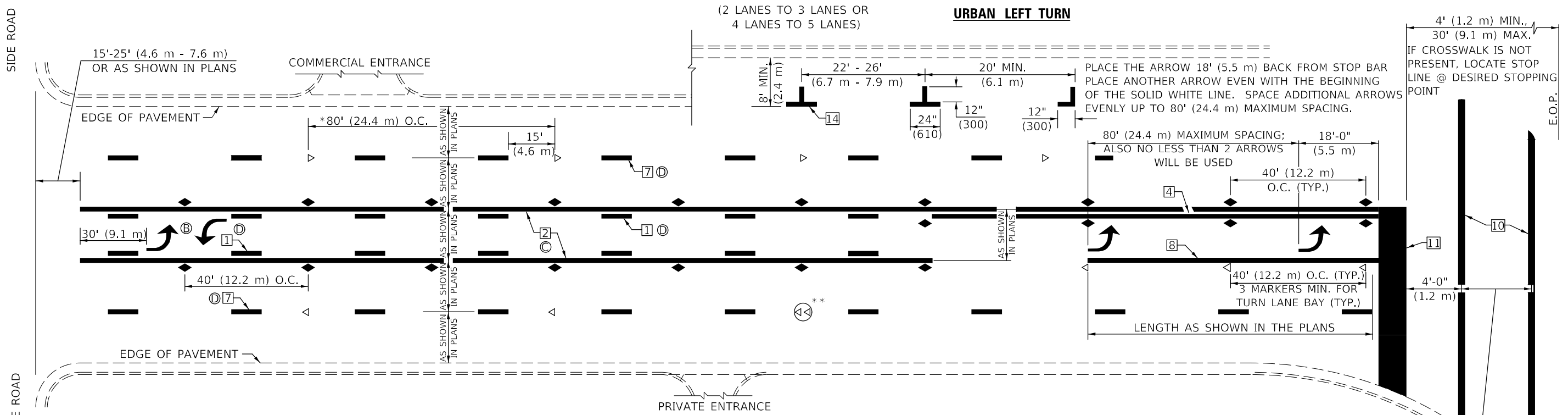
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	42
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

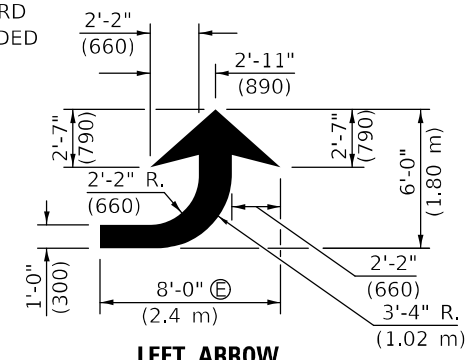


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

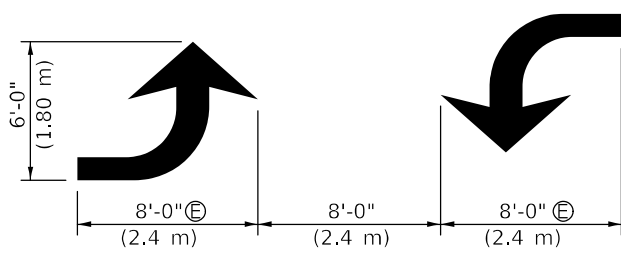
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

GENERAL NOTES:

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780X FOR SYMBOLS TABLE)

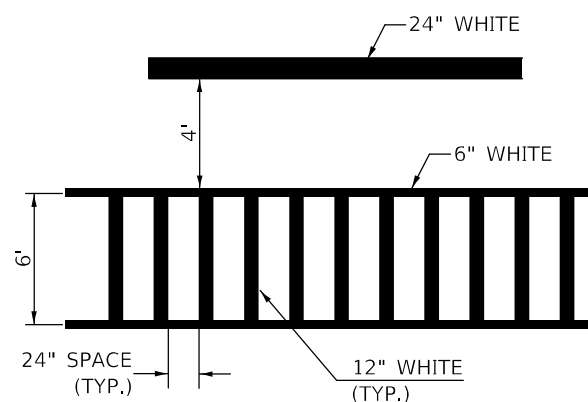


LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

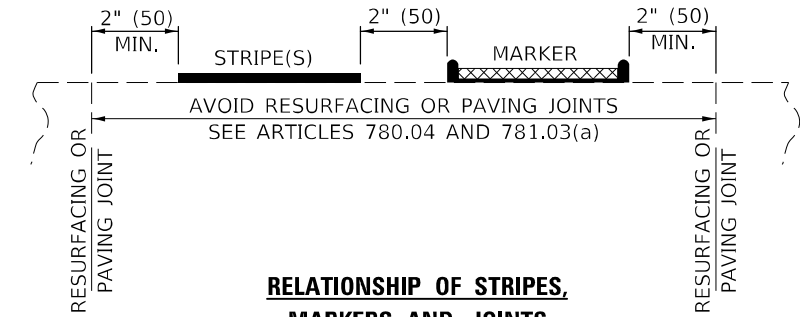


TYPICAL DOUBLE TURN ARROWS (WHITE)

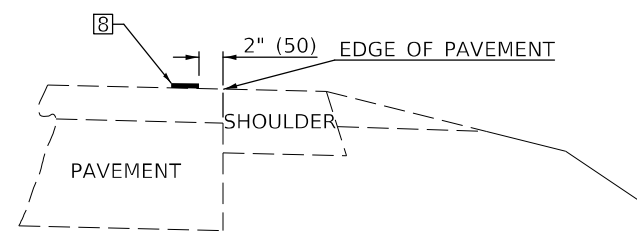
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

USER NAME = monjardnrt	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 39.5559" / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 10/18/2021	DATE -	REVISED - 3/2019 SWN

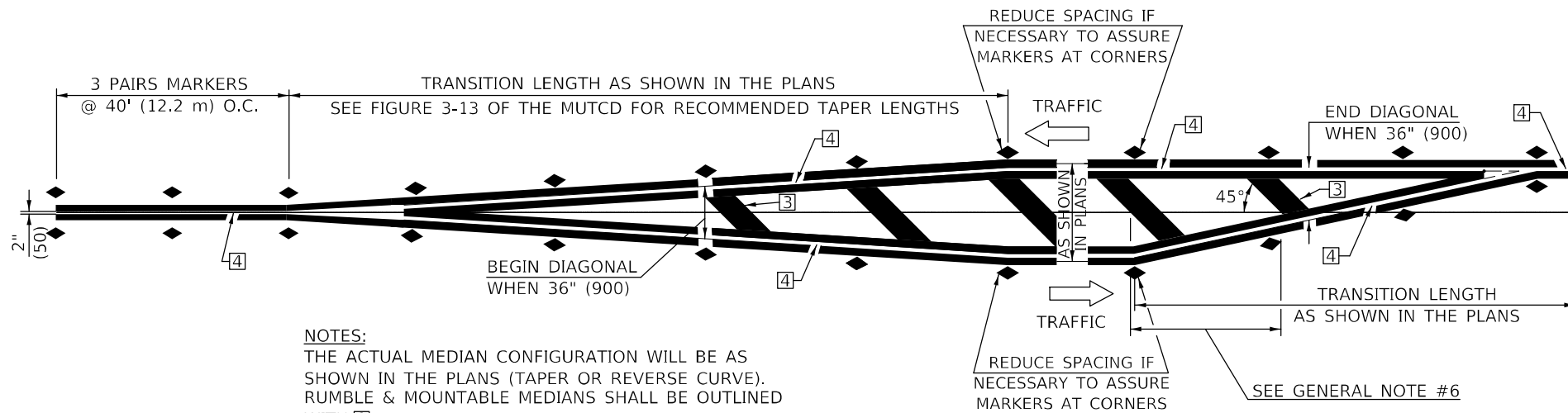
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	43
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

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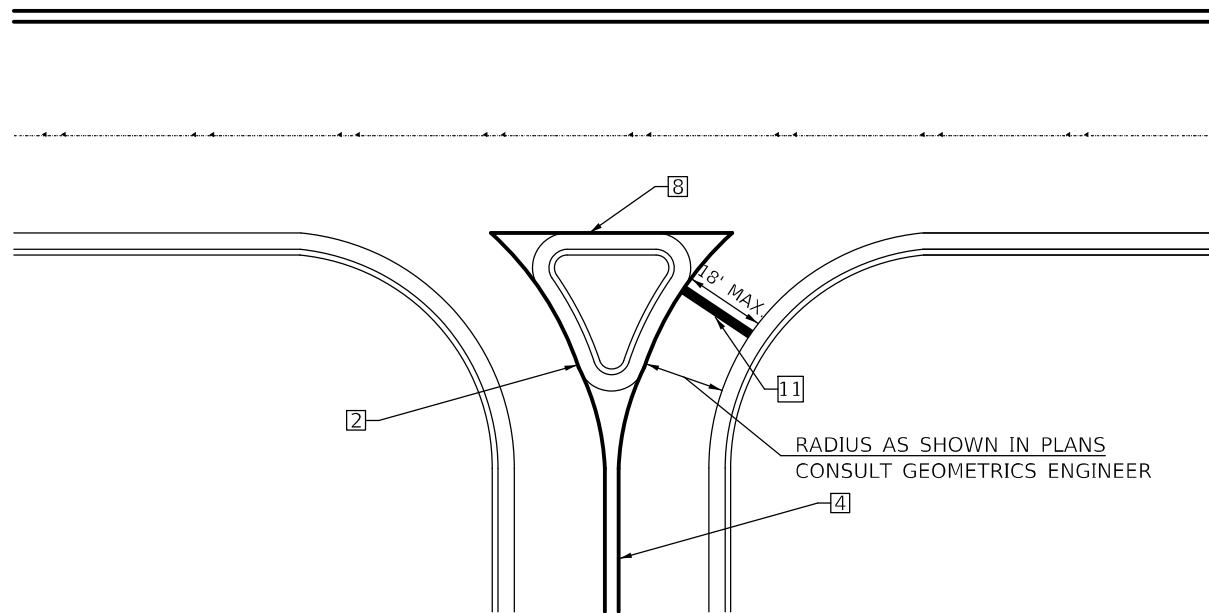


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH \square .

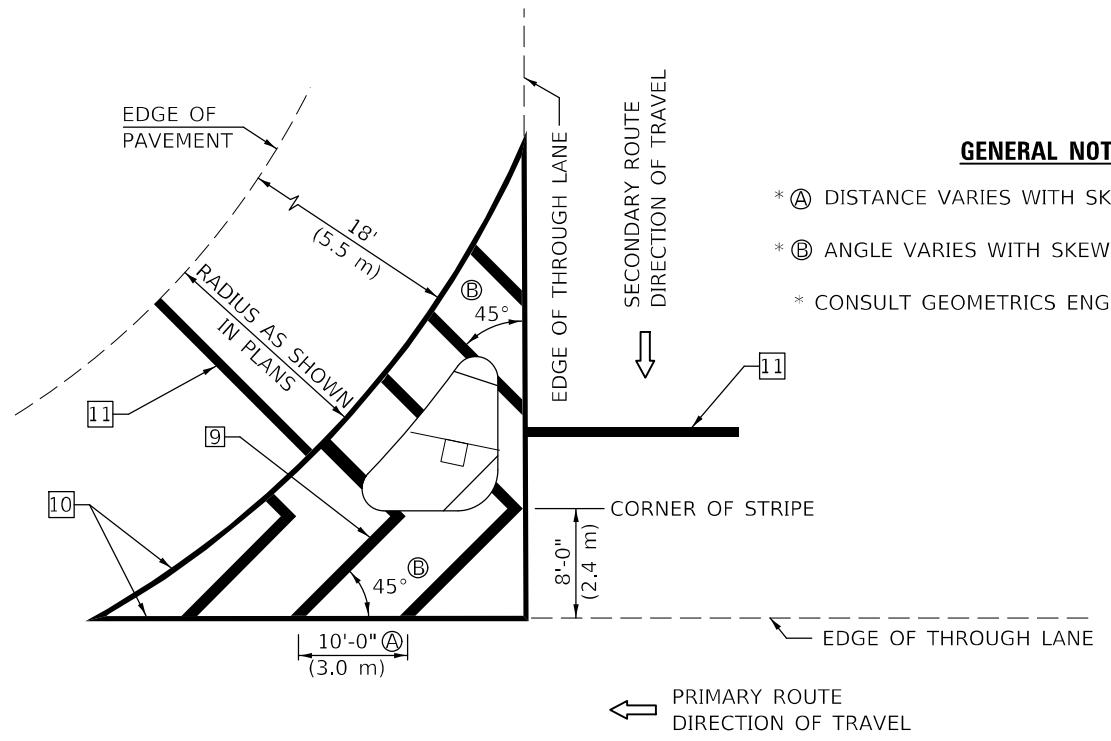
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 <30 MPH USE 15' (<50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- * Ⓐ DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * Ⓑ ANGLE VARIES WITH SKEW OF INTERSECTION.
- * CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

USER NAME = monjardinnrt	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 39.5559" / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 10/18/2021	DATE -	REVISED - 3/2019 SWN

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

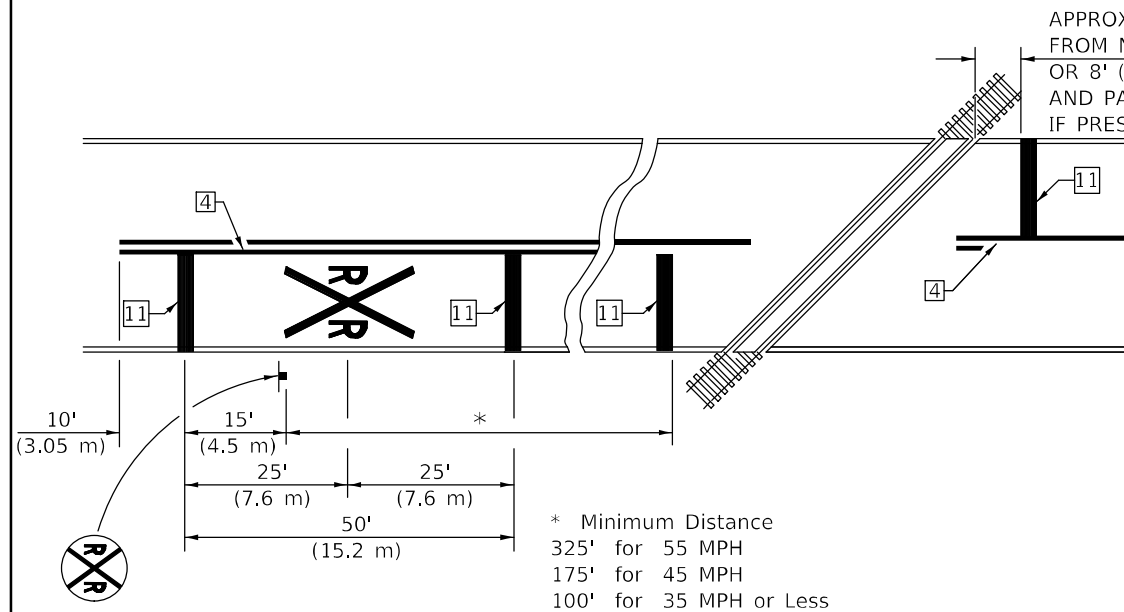
**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	44
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

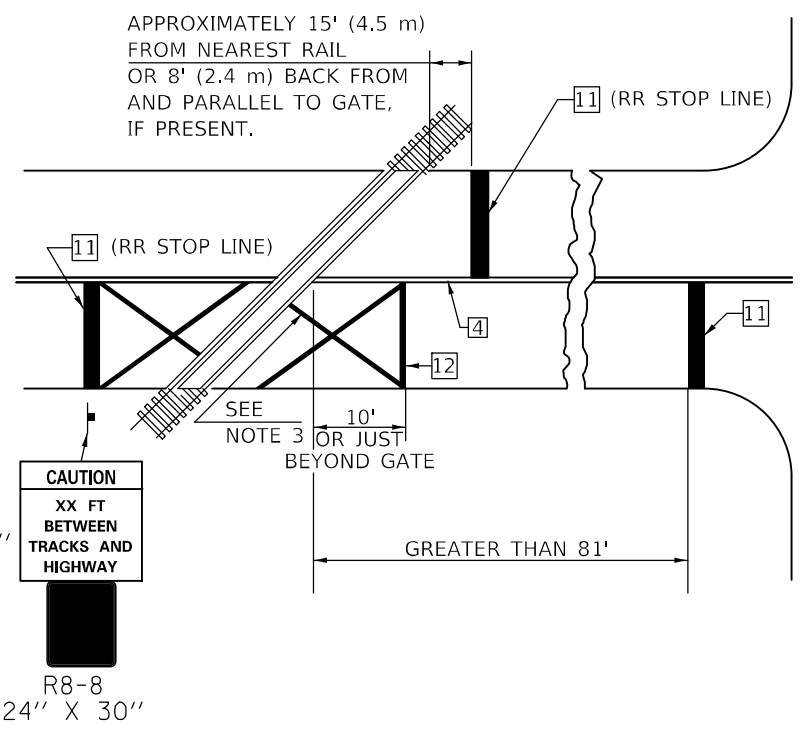
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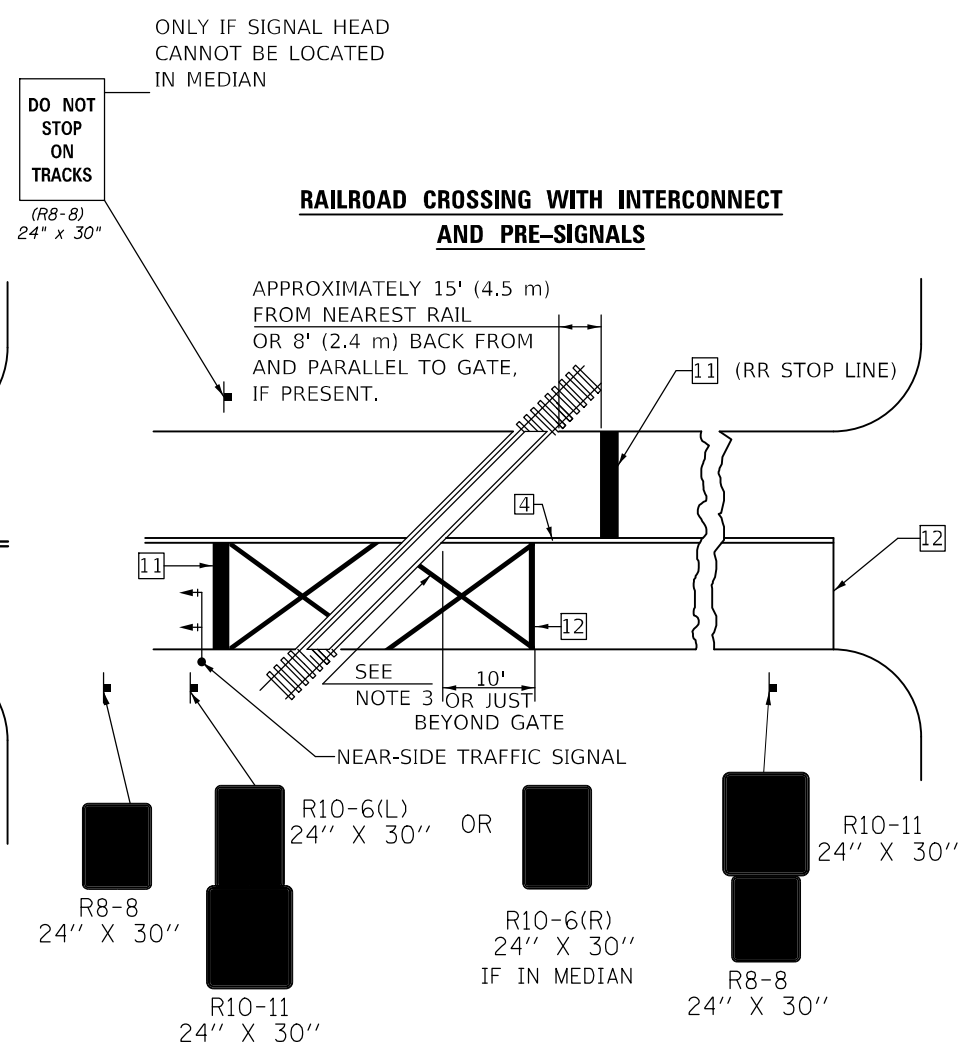


PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

ALTERNATE SIGNS

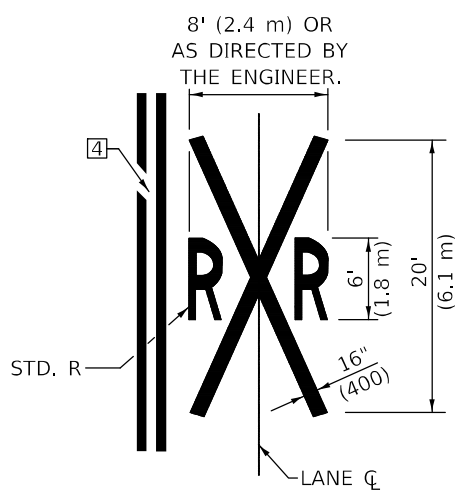


NOTES

- THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.
- ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.
- WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
- XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

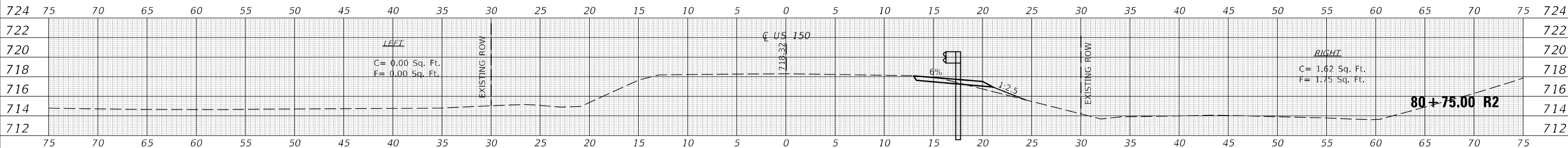


Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

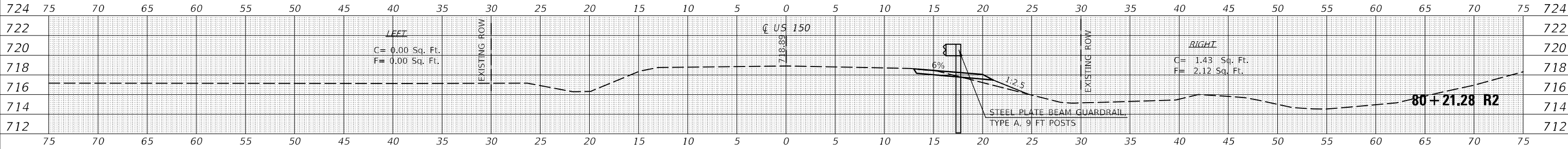
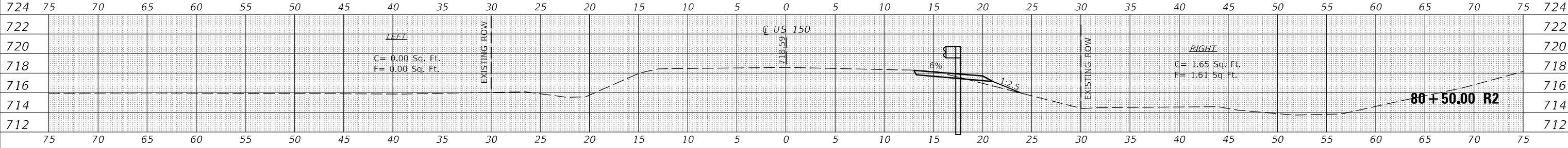
DISTRICT 5 DETAIL NO. 7800AAA

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	ILLINOIS FED. AID PROJECT										
	ILLINOIS FED. AID PROJECT										

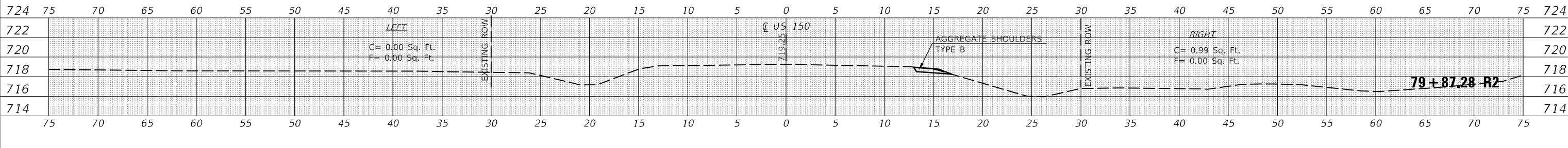
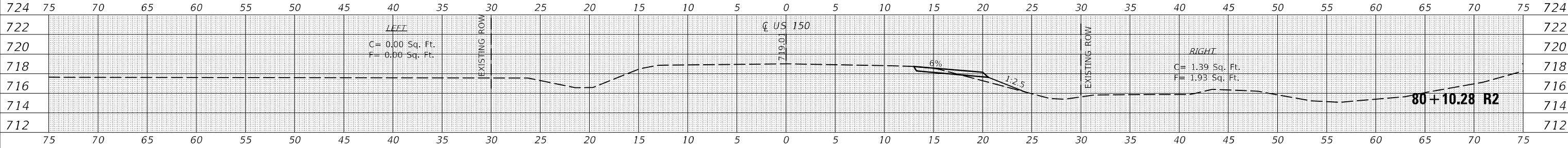
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PLOTTED	
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REVISIONS	
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AREAS CHECKED	
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	DRAWN -	REVISED -
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PLOT DATE = 10/18/2021	DATE -	REVISED -

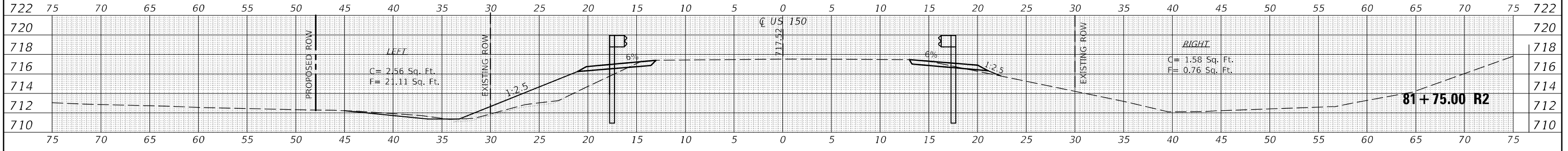
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS SHEETS
Loc 1- S.N. 074-8066**

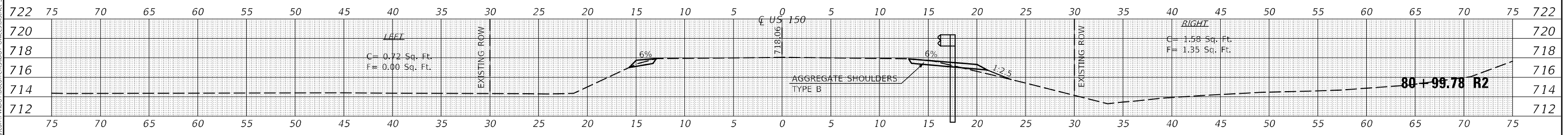
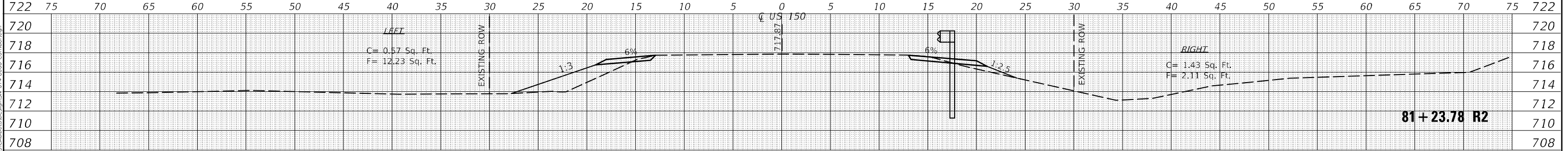
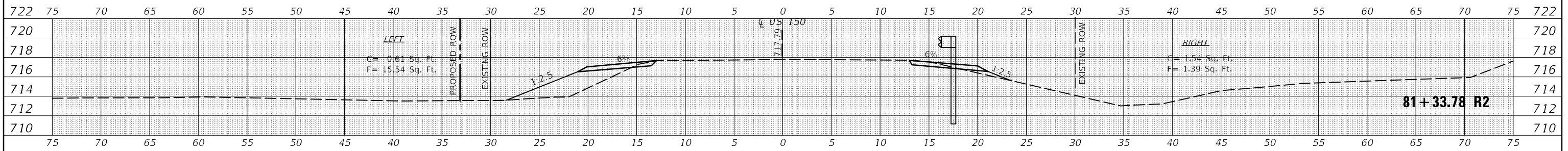
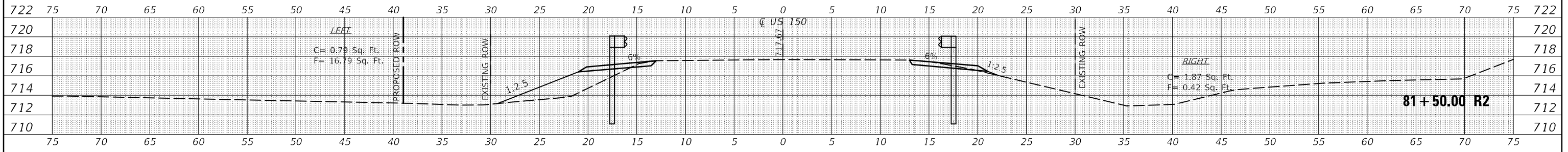
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

DATE	
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PLOTTED	
NOTE BOOK	
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NOTE BOOK	
AREAS CHECKED	



USER NAME	= monjardimrt	DESIGNED	-	REVISED	-
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		DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

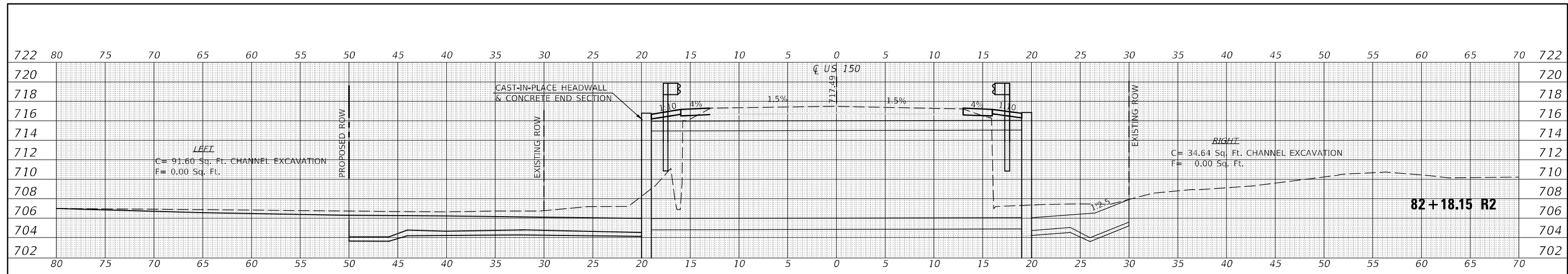
**CROSS SECTIONS SHEETS
Loc 1- S.N. 074-8066**

SCALE: SHEET 2 OF 6 SHEETS STA.

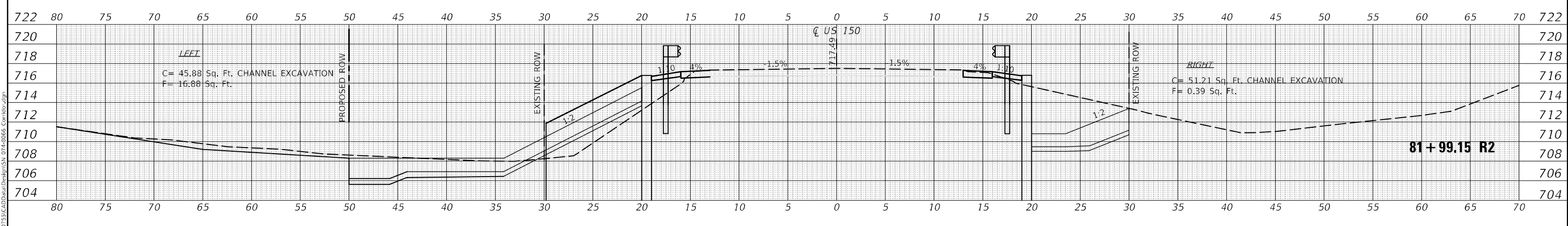
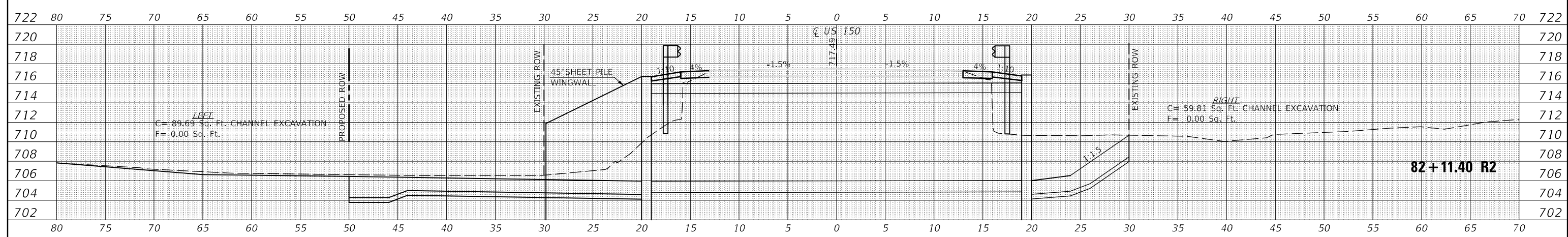
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CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

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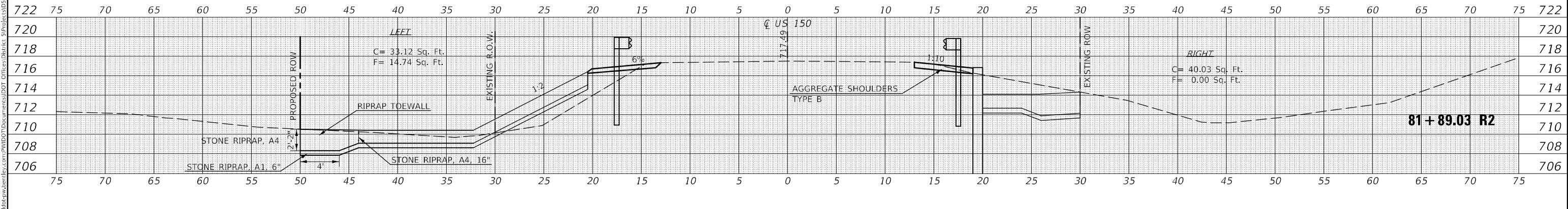
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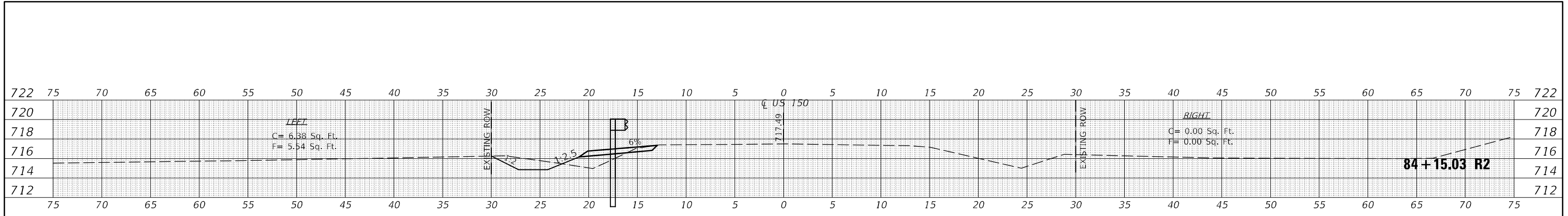
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS SHEETS
Loc 1- S.N. 074-8066**

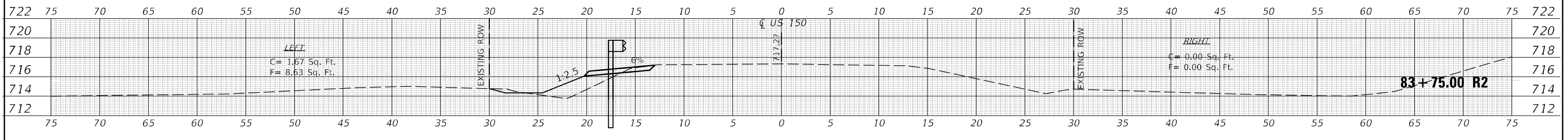
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

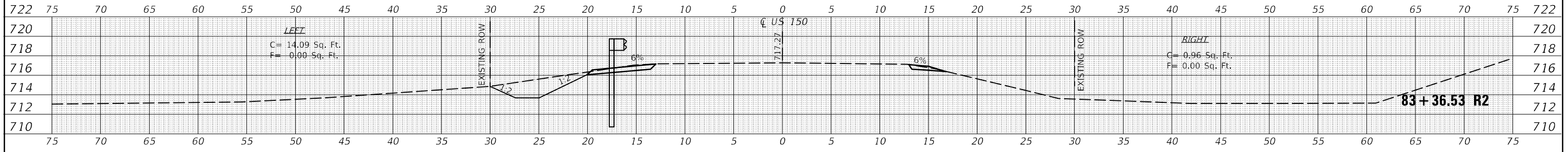
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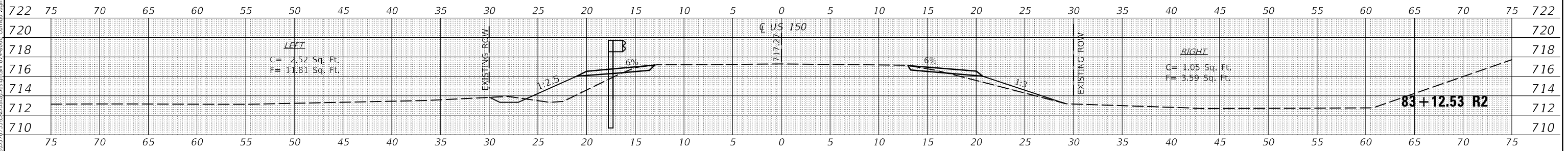
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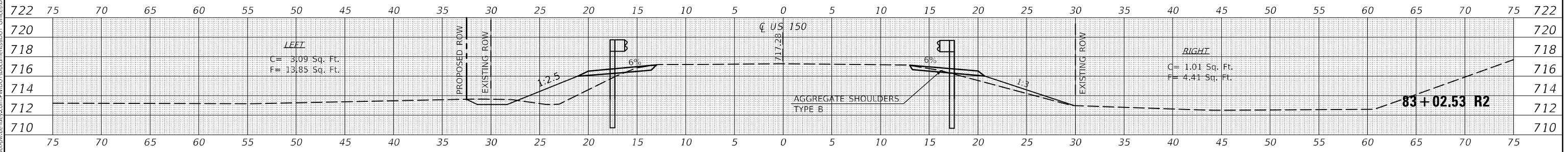
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

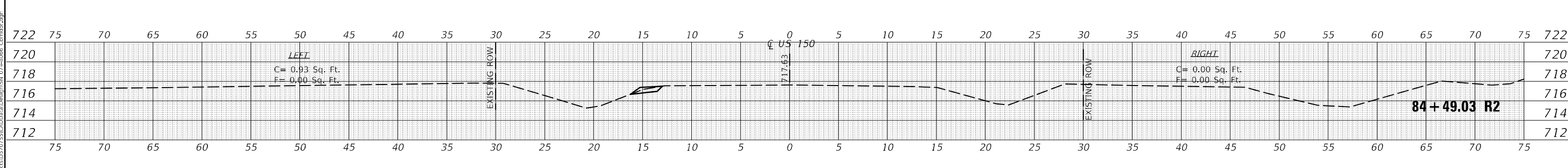
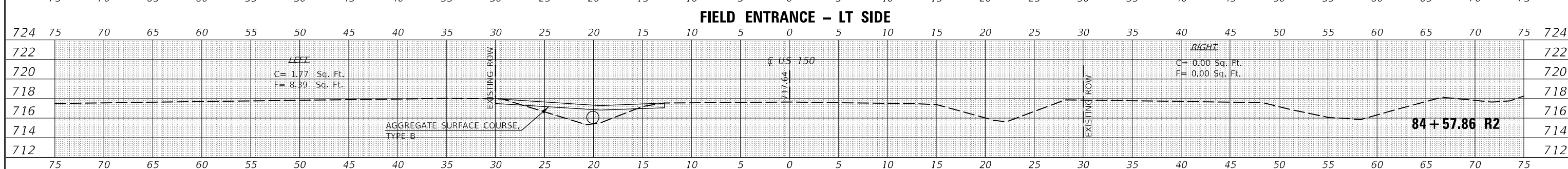
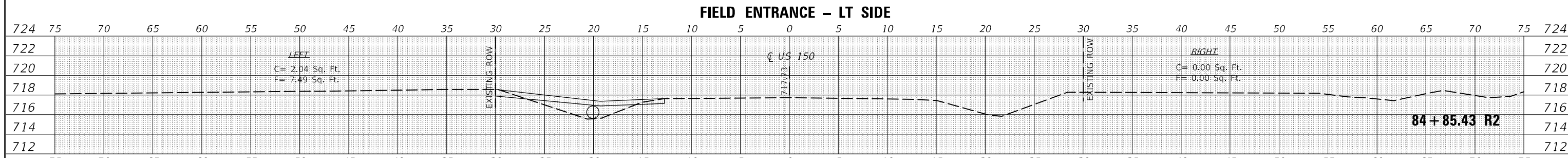
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Loc 1- S.N. 074-8066**

SCALE: SHEET 5 OF 6 SHEETS STA. 82+47.09 R2 TO STA. 83+00.00 R2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 70755
ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	



DATE	
BY	
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NOTE BOOK NO.	

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS SHEETS			
Loc 1- S.N. 074-8066			
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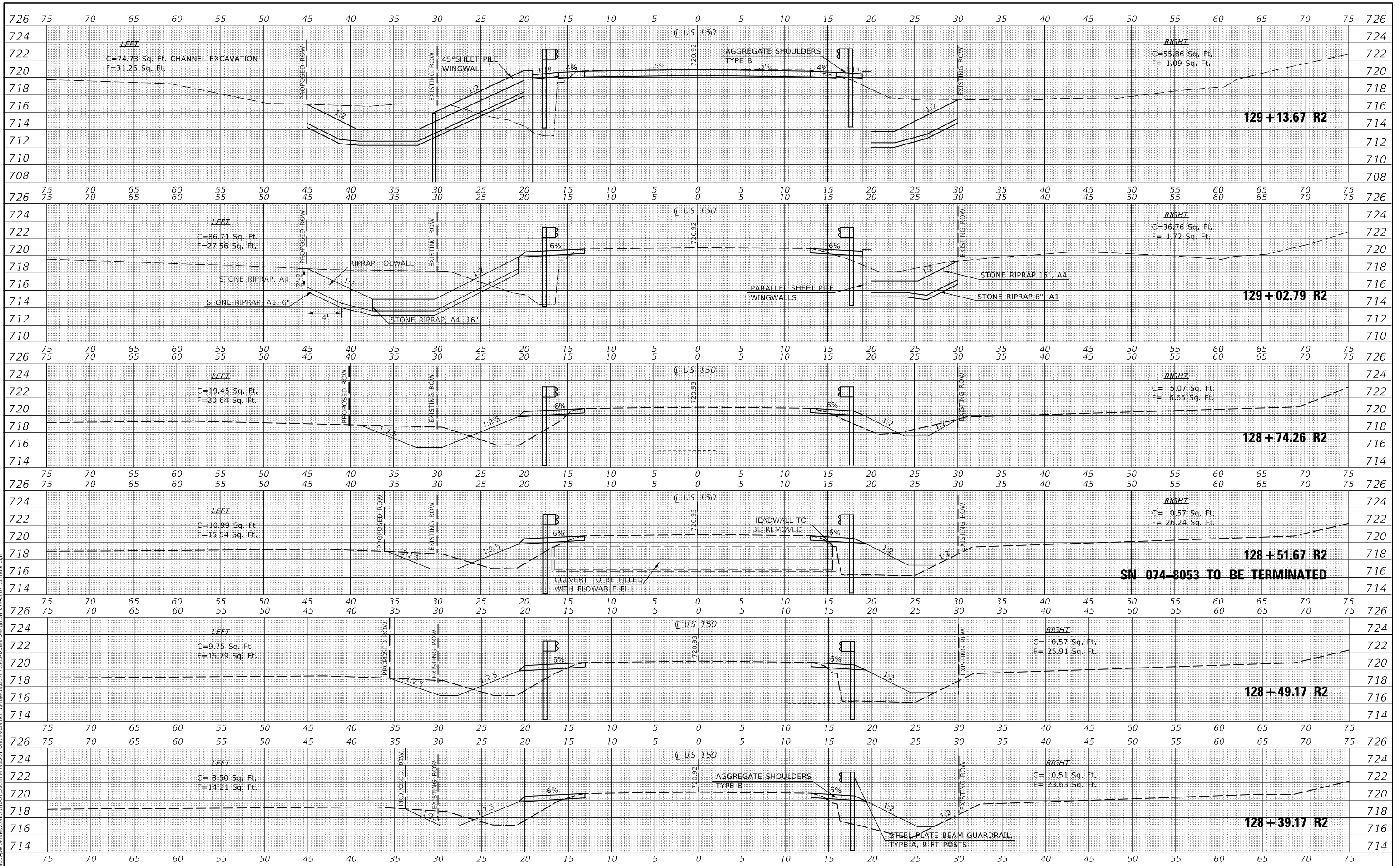
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CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

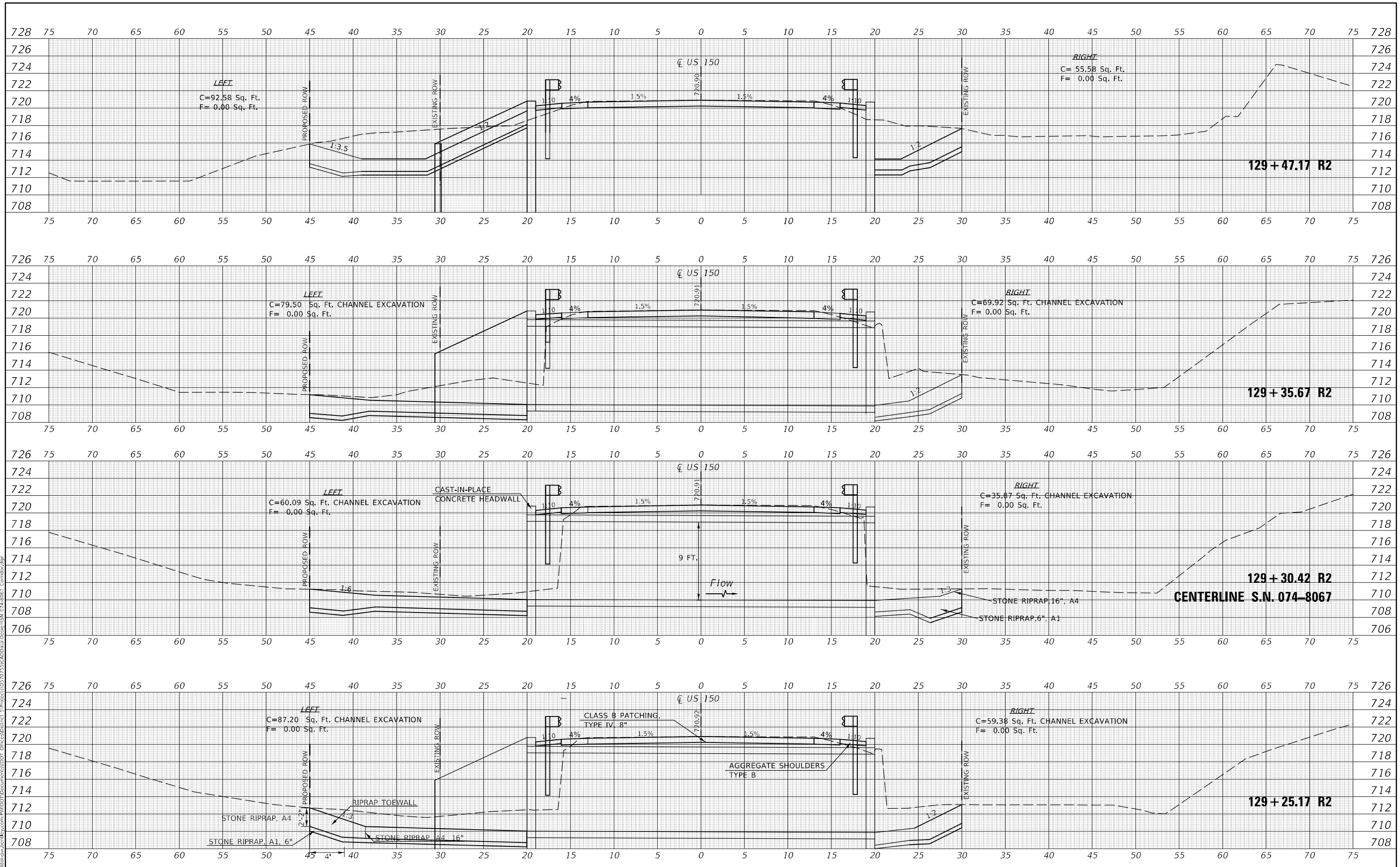
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 Loc 2- S.N. 074-8067**

SCALE: SHEET 1 OF 5 SHEETS STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	53
				CONTRACT NO. 70755
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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PLOTTED	
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NOTE BOOK	
AREAS CHECKED	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

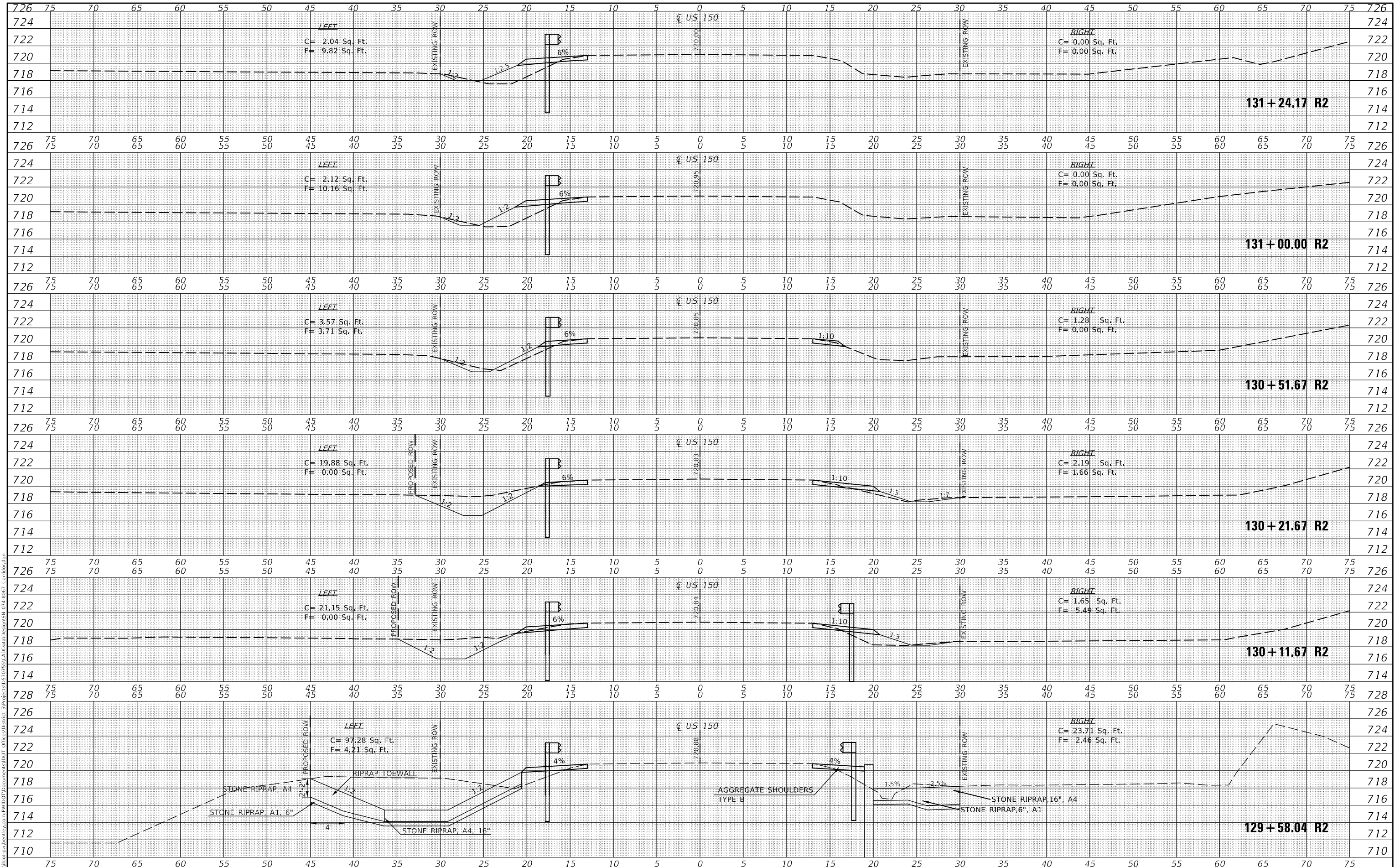
CROSS SECTION SHEETS
Loc 2- S.N. 074-8067

SCALE: SHEET 3 OF 5 SHEETS STA.

F.A.S RTE. 1517	SECTION 11CR	COUNTY PIATT	TOTAL SHEETS 62	SHEET NO. 54
CONTRACT NO. 70755				ILLINOIS FED. AID PROJECT

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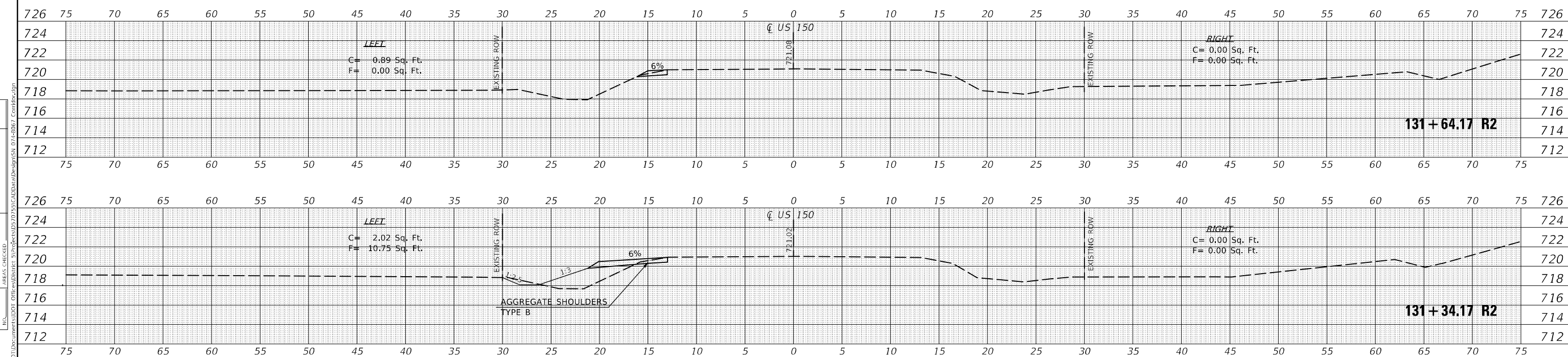
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	PLOT DATE = 10/18/2021	CHECKED -	REVISED -						ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -									

FINAL SURVEY NO.	DATE
SURVEYED BY	
PLOTTED BY	
TEMPLATE NO.	
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ORIGINAL SURVEY NO.	DATE
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AREAS CHECKED	



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	DATE -	REVISED -

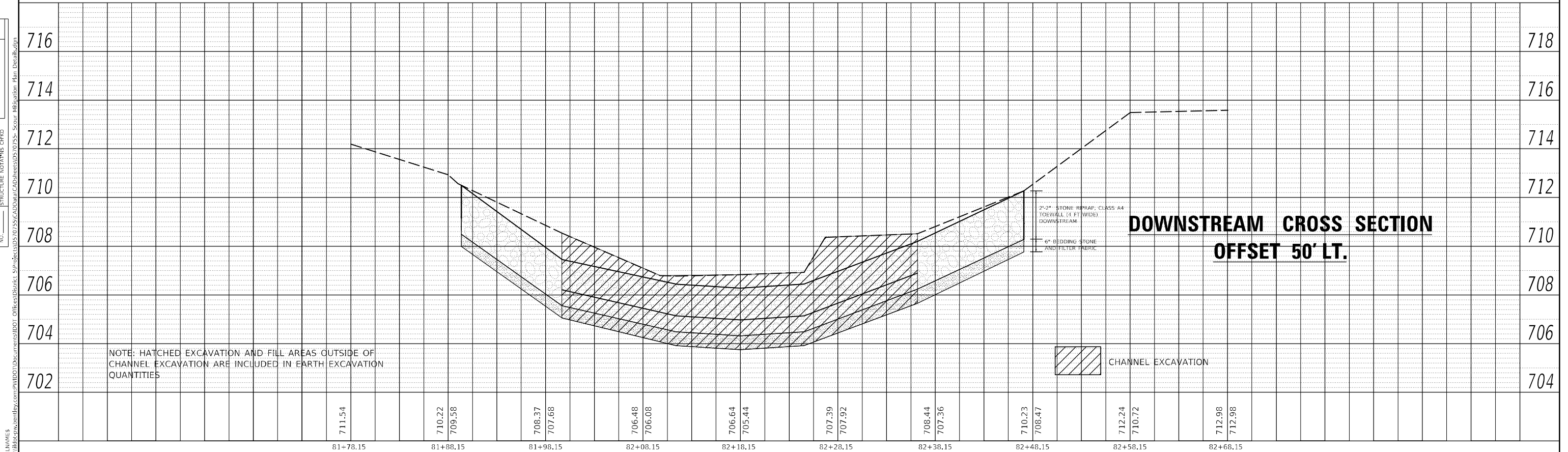
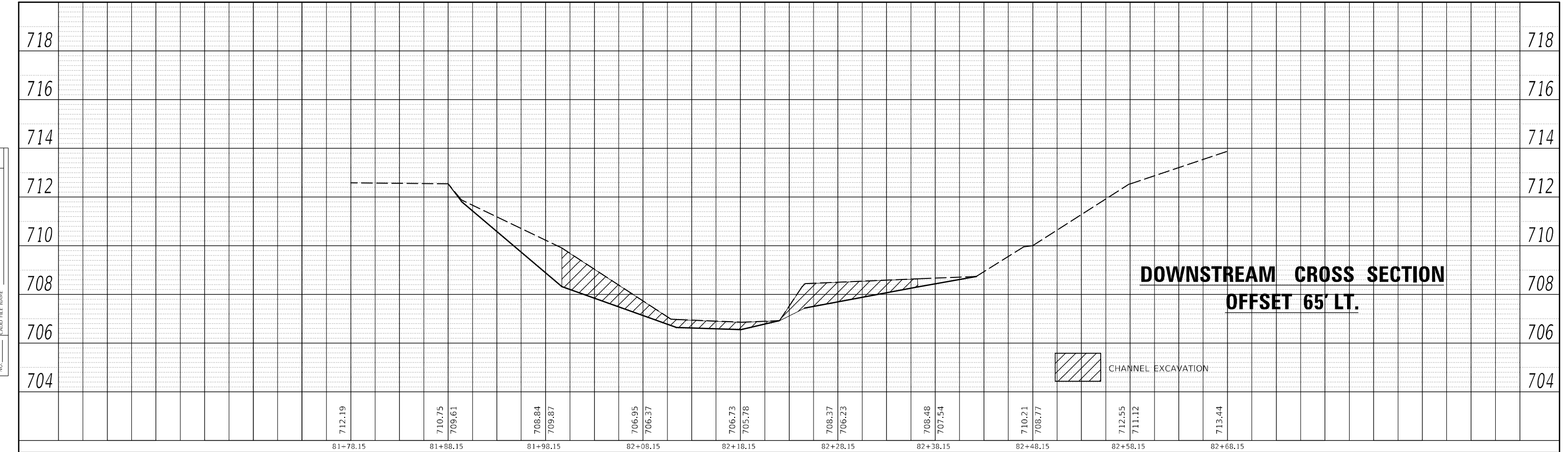
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA.

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CONTRACT NO. 70755				ILLINOIS FED. AID PROJECT

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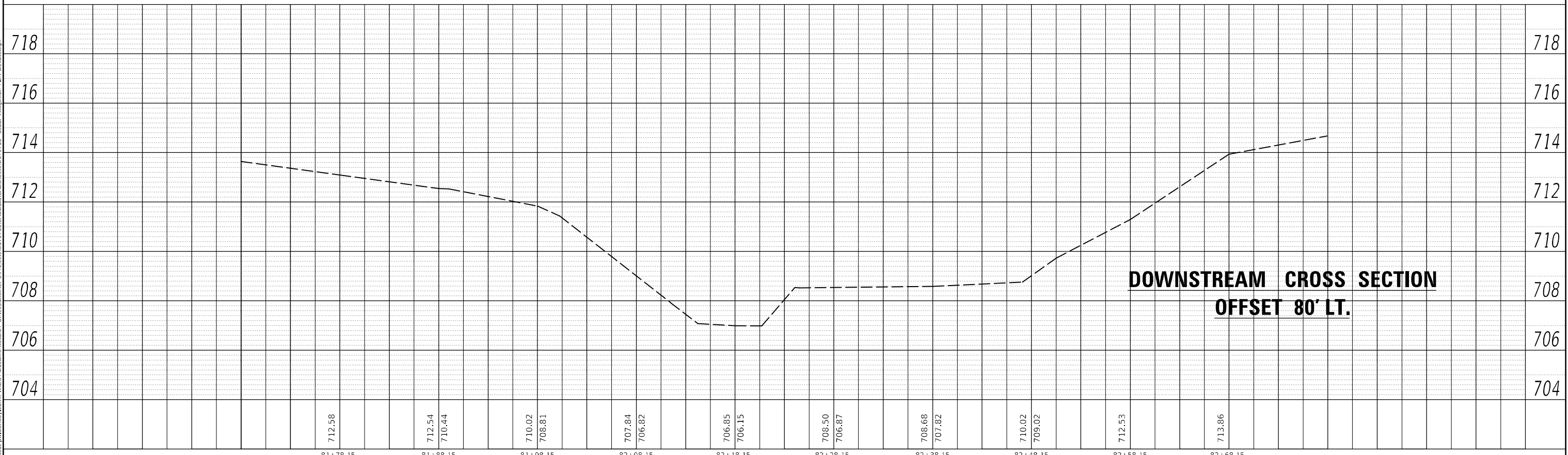
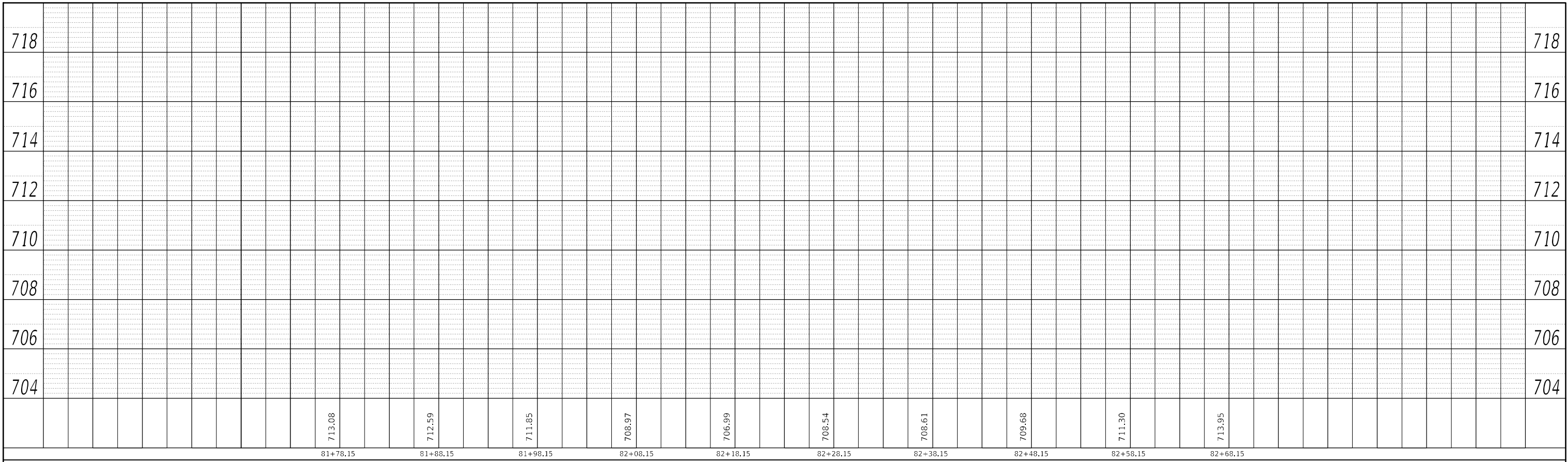
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NOTE BOOK NO.	GRADES CHECKED	
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										ILLINOIS FED. AID PROJECT		

PLAN	REVISIONS	DATE
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NOTE BOOK NO.	GRADES CHECKED	
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BY		



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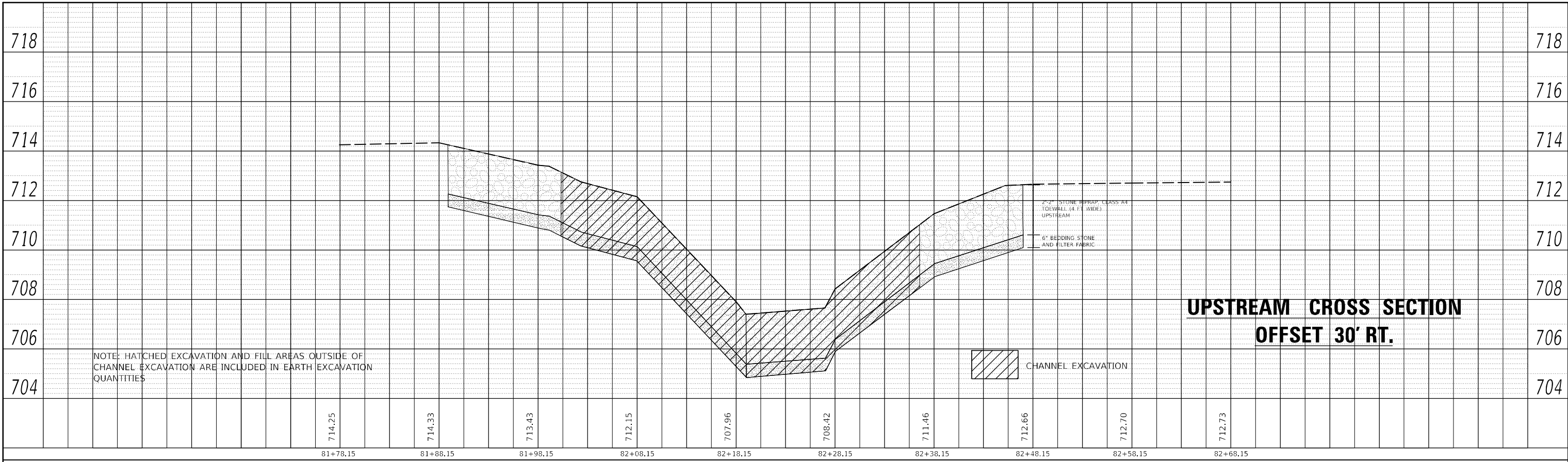
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

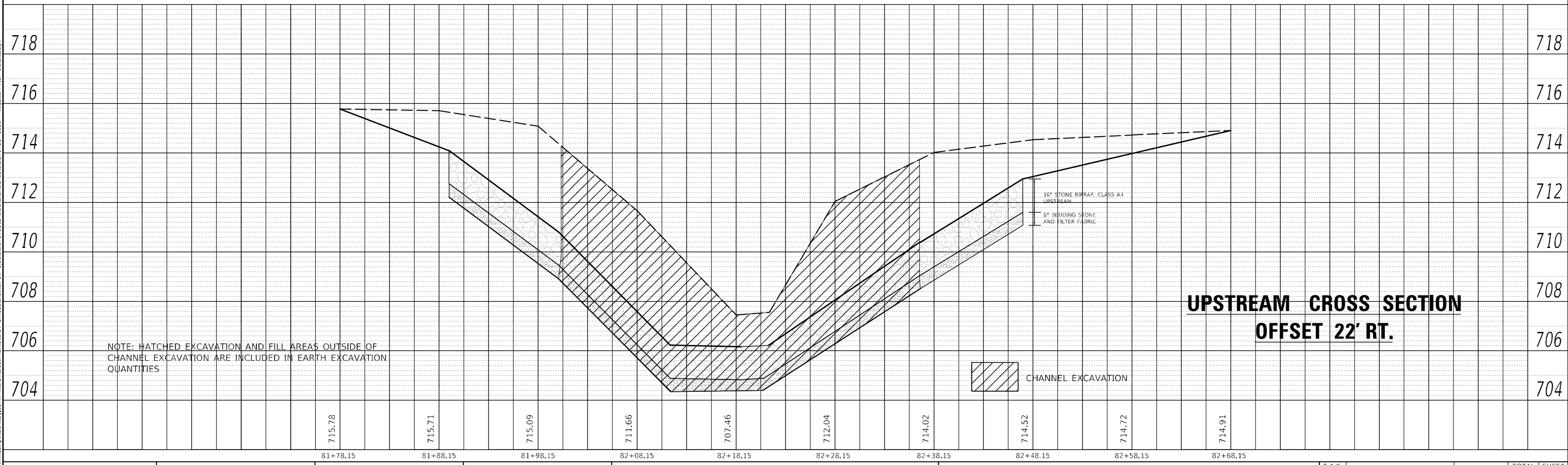
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LOCATION-1 SN 074-8066			
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	59
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	ALIGNED	CHECKED
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PROFILE	SUBMITTED	DATE
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NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE	NOTATION



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

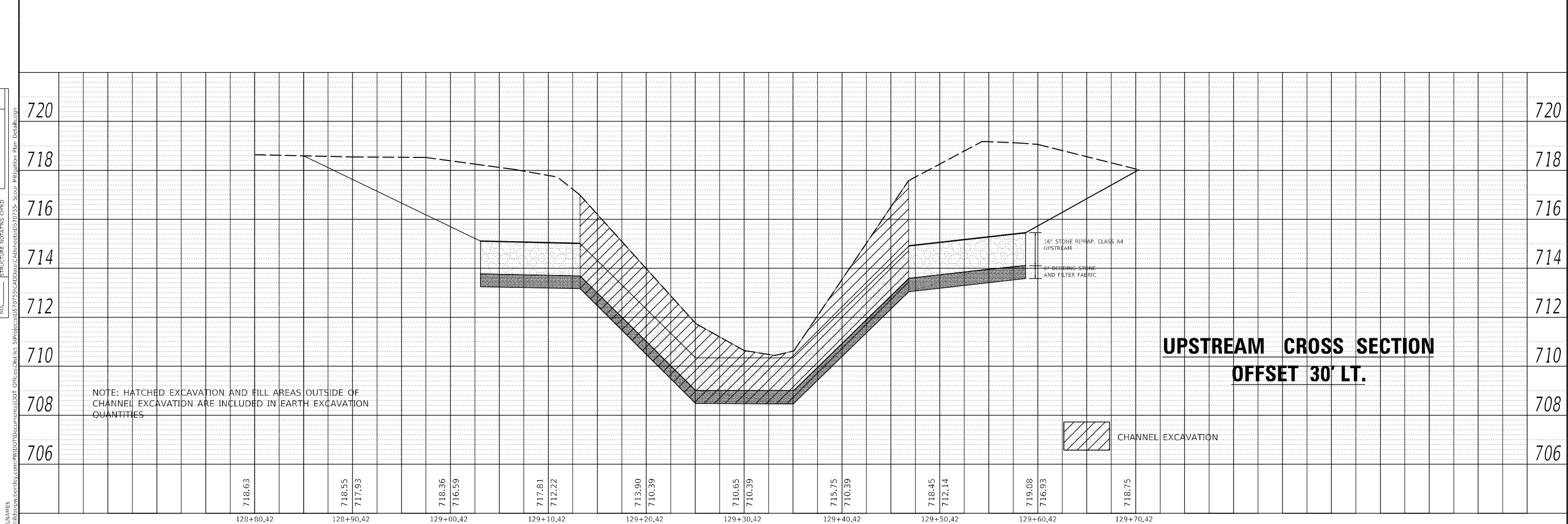
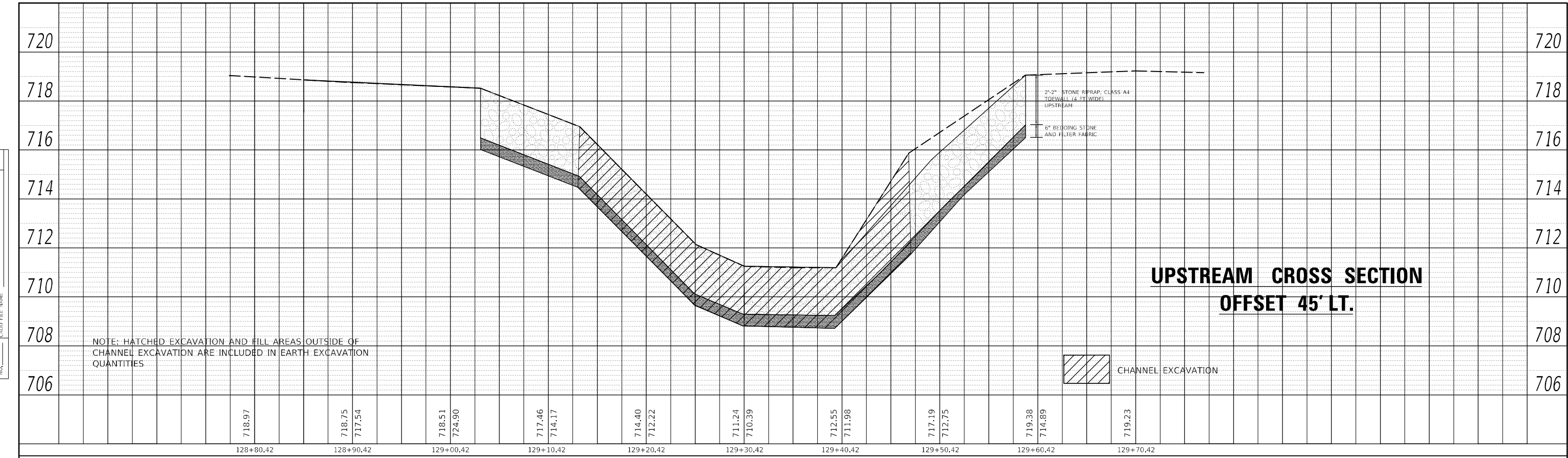
CROSS SECTIONS SHEETS			
LOCATION-1 SN 074-8066			
SCALE:	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	60
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	

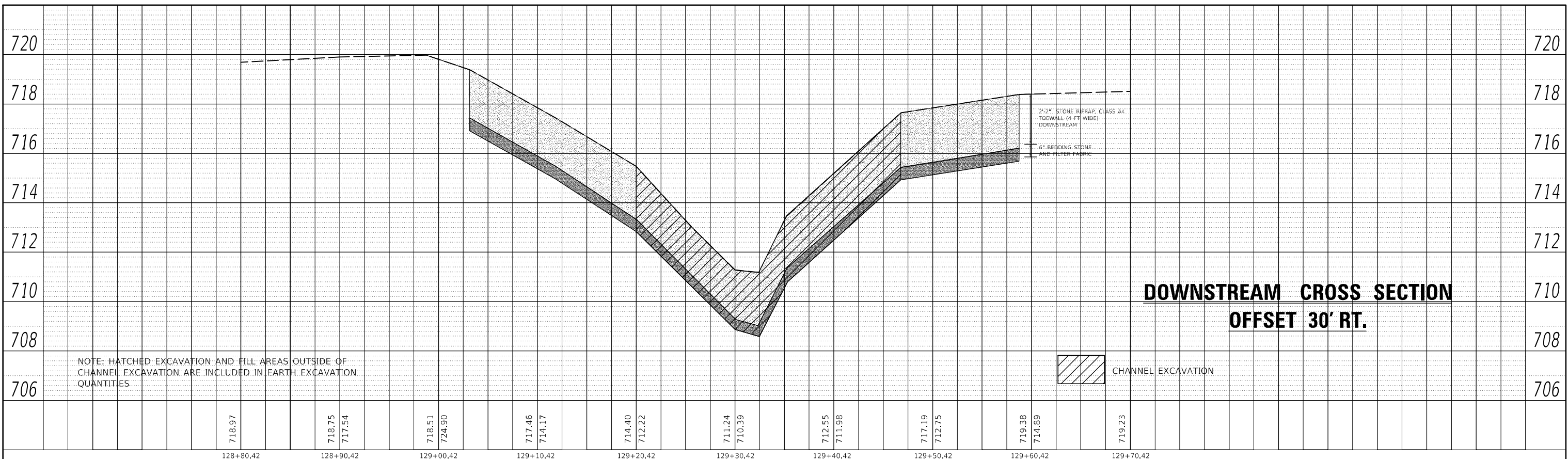
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STRUCTURE ADJUSTMENTS	
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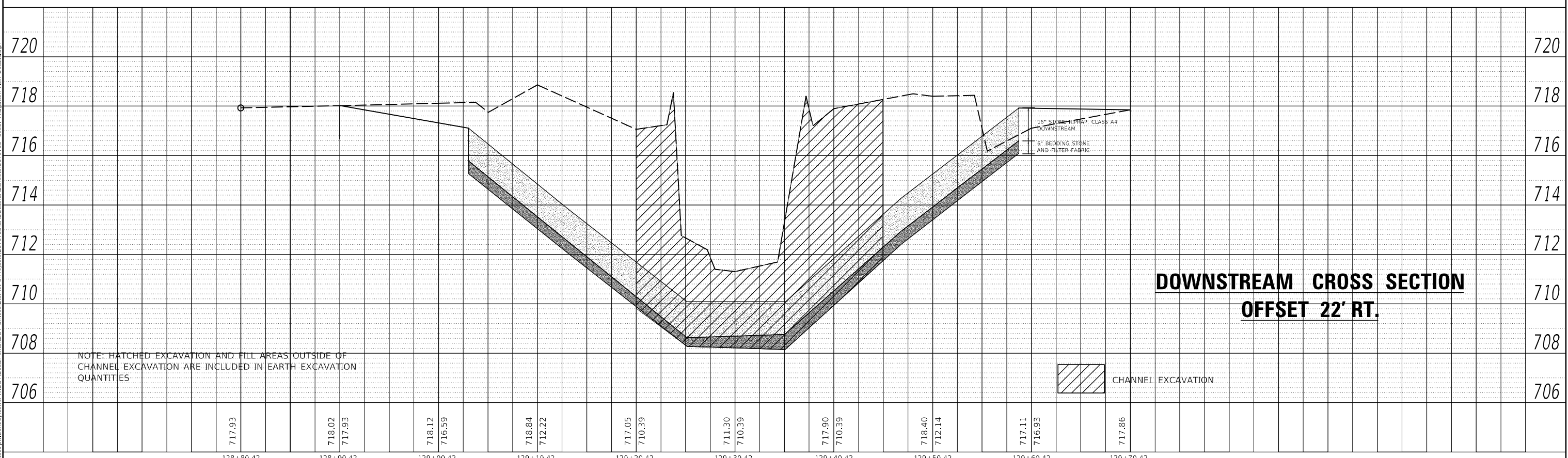
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STRUCTURE NOTATIONS CHECKED	



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USER NAME	= monjrdirt	DESIGNED -	REVISIONS	
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		CHECKED -	REVISIONS	
		DATE -	REVISIONS	
PLOT SCALE	= 40.1123' / in.			
PLOT DATE	= 10/19/2021			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS SECTIONS
LOCATION-2 SN 074-8067**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	11CR	PIATT	62	62
CONTRACT NO. 70755				
ILLINOIS FED. AID PROJECT				