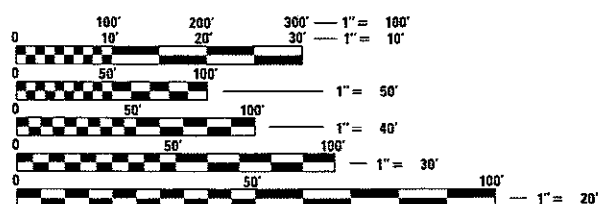


06-15-2018 LETTING ITEM 135

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

CURRENT ADT			
F.A.S. 294 (OLD US 66)			
ADT (2018)	PV%	SUZ	MUZ
1700	91.77	5.88	2.35

DESIGN DESIGNATION
MAJOR COLLECTOR



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 EXCAVATION  
1-800-892-0123  
OR 811

TOWNSHIP: LEXINGTON

PROJECT ENGINEER: JASON STULTS  
SQUAD LEADER: GREG EAGLIN  
DESIGNER: CARL BAKER  
PHONE NUMBER: 217-465-4181  
CONTRACT NO. 70533

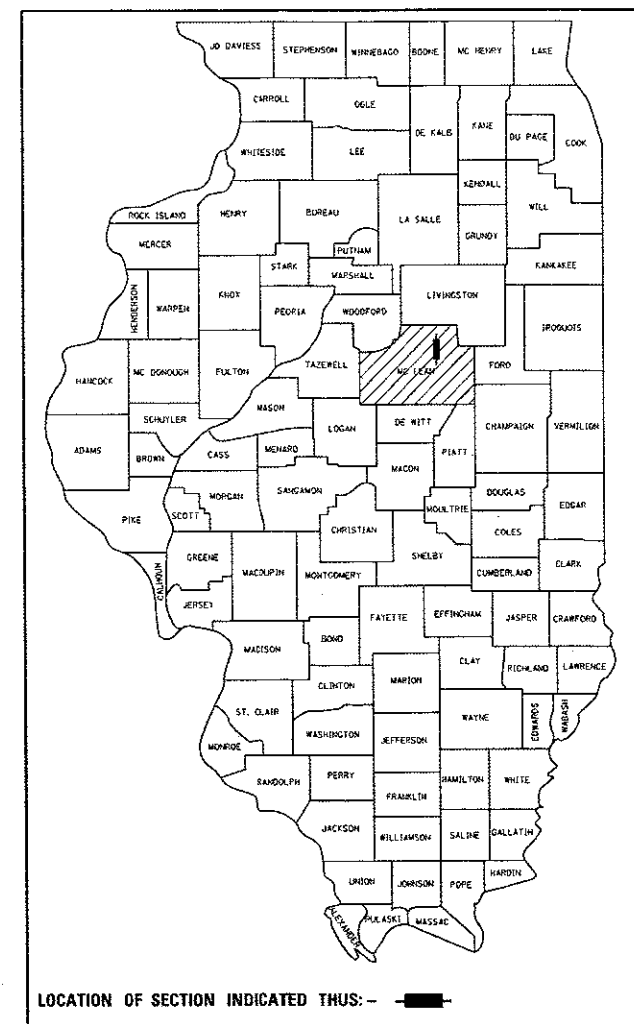
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

F.A.S. ROUTE 294 / (OLD US ROUTE 66)  
SECTION 14BR & DM  
PROJECT STP- 034L(193)  
BRIDGE REPLACEMENT  
MCLEAN COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	1
ILLINOIS			CONTRACT NO. 70533	

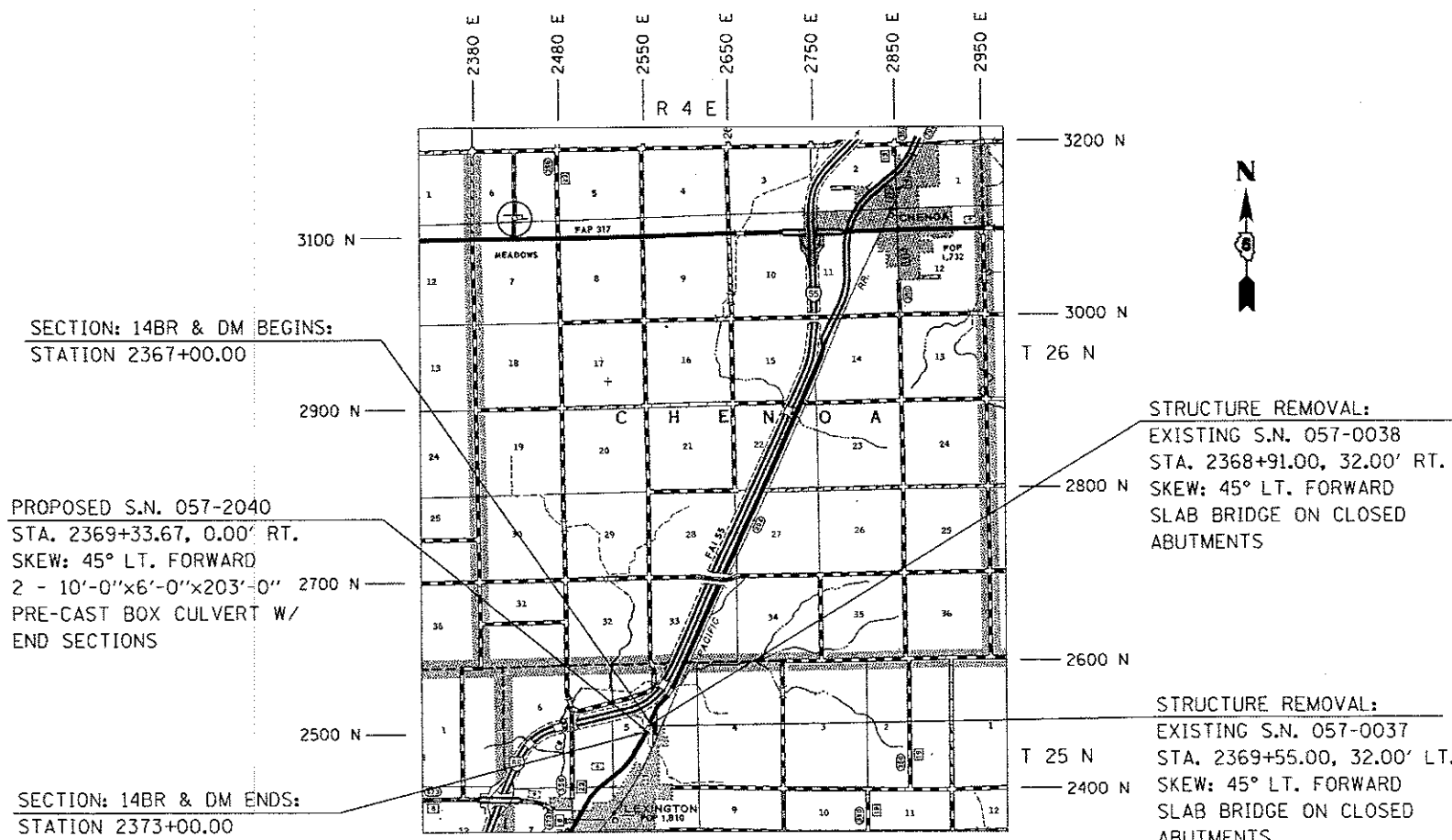
D-95-052-06



LOCATION OF SECTION INDICATED THUS: -

C-95-053-06

STREAM AT NCL OF LEXINGTON



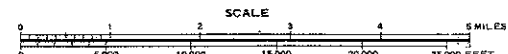
SECTION: 14BR & DM BEGINS:  
STATION 2367+00.00

PROPOSED S.N. 057-2040  
STA. 2369+33.67, 0.00' RT.  
SKEW: 45° LT. FORWARD  
2 - 10'-0" x 6'-0" x 203'-0" 2700 N  
PRE-CAST BOX CULVERT W/  
END SECTIONS

SECTION: 14BR & DM ENDS:  
STATION 2373+00.00

STRUCTURE REMOVAL:  
EXISTING S.N. 057-0038  
STA. 2368+91.00, 32.00' RT.  
SKEW: 45° LT. FORWARD  
SLAB BRIDGE ON CLOSED  
ABUTMENTS

STRUCTURE REMOVAL:  
EXISTING S.N. 057-0037  
STA. 2369+55.00, 32.00' LT.  
SKEW: 45° LT. FORWARD  
SLAB BRIDGE ON CLOSED  
ABUTMENTS



TOTAL LENGTH OF SECTION & PROJECT = 600.00 FT. = 0.114 MILES  
NET LENGTH OF SECTION & PROJECT = 600.00 FT. = 0.114 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 20 2018  
*Kensil A. Garnett*  
REGION THREE ENGINEER

*Mary D. [Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Paul P. [Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF HIGHWAY STANDARDS
3	GENERAL NOTES
4-6	SUMMARY OF QUANTITIES
7-12	TYPICAL CROSS SECTIONS
13-17	SCHEDULE OF QUANTITIES
18	ALIGNMENTS, TIE POINTS, AND BENCHMARKS
19-20	PLAN AND PROFILE SHEETS
21-28	CULVERT DETAILS
29-30	POROUS GRANULAR EMBANKMENT DETAIL
31-32	MULTI-USE PATH FEATURE
33	TEMPORARY PRIVATE ENTRANCE DETAILS
34	PRIVATE ENTRANCE DETAILS
35	EROSION CONTROL
36	GUARDRAIL LAYOUT
37-38	SOIL BORING LOGS
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43-44	DETOUR DETAILS
45	MAILBOX TURNOUT (RURAL)
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48	FIELD TILE SYSTEM (TREATMENT OF EXISTING)
49	TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/STREET CLOSURE)
50-53	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)
54-87	CROSS SECTIONS

# LIST OF HIGHWAY STANDARDS

STANDARD NO.	NAME OF STANDARD
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-08	CLASS B PATCHES
515001-03	NAME PLATE FOR BRIDGES
602301-04	INLET, TYPE A
604036-03	GRATE, TYPE 8
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701901-07	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS





## SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 294 / OLD U.S. 66 MCLEAN COUNTY			
RURAL TWO - LANE S.N. 057-2040			
FUNDING BREAK OUT: 80% FED 20% STATE			
CONSTRUCTION TYPE CODE: 0010			
CODE NO.	ITEM	UNIT	QUANTITY
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	267.0
44201298	DOWEL BARS 1 1/4"	EACH	160.0
44213200	SAW CUTS	FOOT	277.0
44213204	TIE BARS 3/4"	EACH	34.0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	34.0
48102100	AGGREGATE WEDGE SHOULDER TYPE B	TON	98.0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	198.0
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	82.0
50300225	CONCRETE STRUCTURES	CU YD	10.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	8.0
50300300	PROTECTIVE COAT	SQ YD	29.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUNDS	1508.0

\* SPECIALTY ITEM

LOCATION OF WORK: FAS 294 / OLD U.S. 66 MCLEAN COUNTY			
RURAL TWO - LANE S.N. 057-2040			
FUNDING BREAK OUT: 80% FED 20% STATE			
CONSTRUCTION TYPE CODE: 0010			
CODE NO.	ITEM	UNIT	QUANTITY
51500100	NAME PLATES	EACH	1.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2.0
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	1.0
54010503	PRECAST CONCRETE BOX CULVERTS 5' x 3'	FOOT	46.0
54011006	PRECAST CONCRETE BOX CULVERTS 10' x 6'	FOOT	400.0
5422C036	PIPE CULVERTS, CLASS C, TYPE 2 36" (TEMPORARY)	FOOT	34.0
542A1060	PIPE CULVERT, CLASS A, TYPE 2 15"	FOOT	140.0
55100500	STORM SEWER REMOVAL 12"	FOOT	136.0
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2.0
60500050	REMOVING CATCH BASINS	EACH	2.0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	175.0
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	62.5
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	25.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2.0

\* SPECIALTY ITEM

## SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 294 / OLD U.S. 66 MCLEAN COUNTY			
RURAL TWO - LANE S. N. 057-2040			
FUNDING BREAK OUT: 80% FED 20% STATE			
CONSTRUCTION TYPE CODE: 0010			
CODE NO.	ITEM	UNIT	QUANTITY
63200310	GUARDRAIL REMOVAL	FOOT	735.0
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	1.0
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	15.0
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.0
66900530	SOIL DISPOSAL ANALYSIS	EACH	1.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8.0
67100100	MOBILIZATION	L SUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	60.0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	20.0
• 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2.0
• 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4.0
X0900064	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	615.0
X0325862	CONCRETE BRIDGE RAILING	FOOT	53.0

• SPECIALTY ITEM

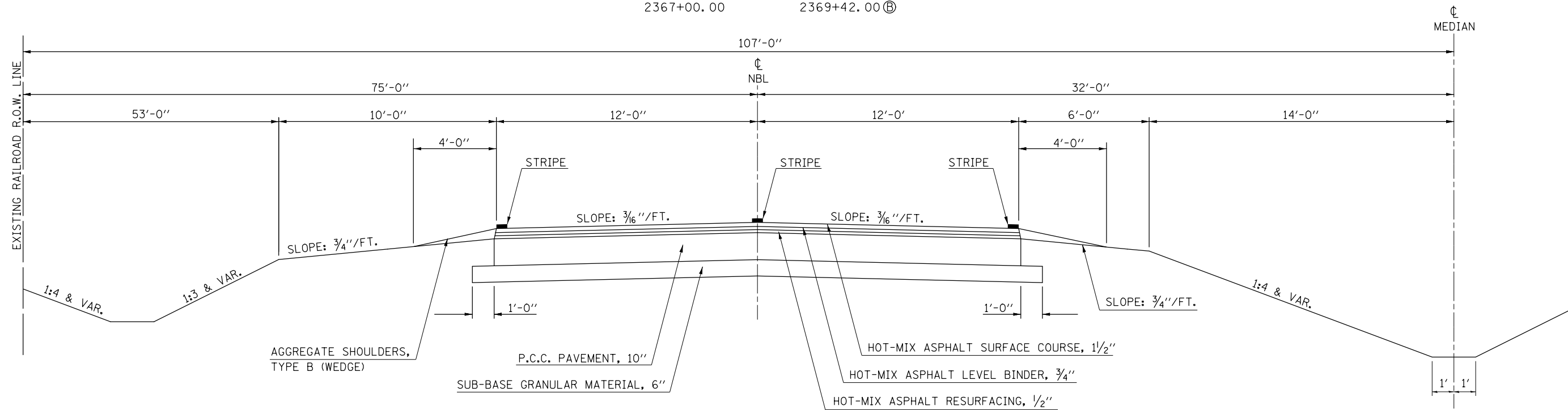
LOCATION OF WORK: FAS 294 / OLD U.S. 66 MCLEAN COUNTY			
RURAL TWO - LANE S. N. 057-2040			
FUNDING BREAK OUT: 80% FED 20% STATE			
CONSTRUCTION TYPE CODE: 0010			
CODE NO.	ITEM	UNIT	QUANTITY
• X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	37.5
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	2.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	14.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0
Z0016702	DETOUR SIGNING	L SUM	1.0
Z0038700	PERMANENT BENCH MARKS	EACH	1.0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0

• SPECIALTY ITEM

### EXISTING TYPICAL CROSS SECTION (A)

NORTHBOUND PAVEMENT

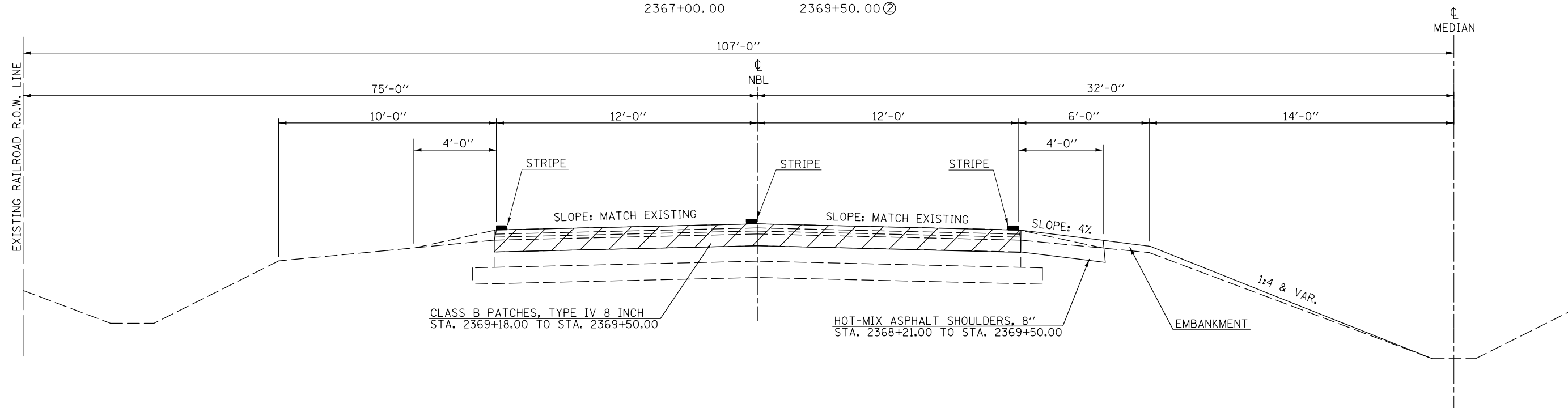
STATION TO STATION  
2367+00.00 2369+42.00 (B)



### PROPOSED TYPICAL CROSS SECTION (1)

NORTHBOUND PAVEMENT

STATION TO STATION  
2367+00.00 2369+50.00 (2)



FILE NAME =	USER NAME = BakerCR	DESIGNED - GAE	REVISED -
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		CHECKED -	REVISED -
		DATE - 10/26/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS  
EXISTING S.N. 057-0037 / PROPOSED S.N. 057-2040

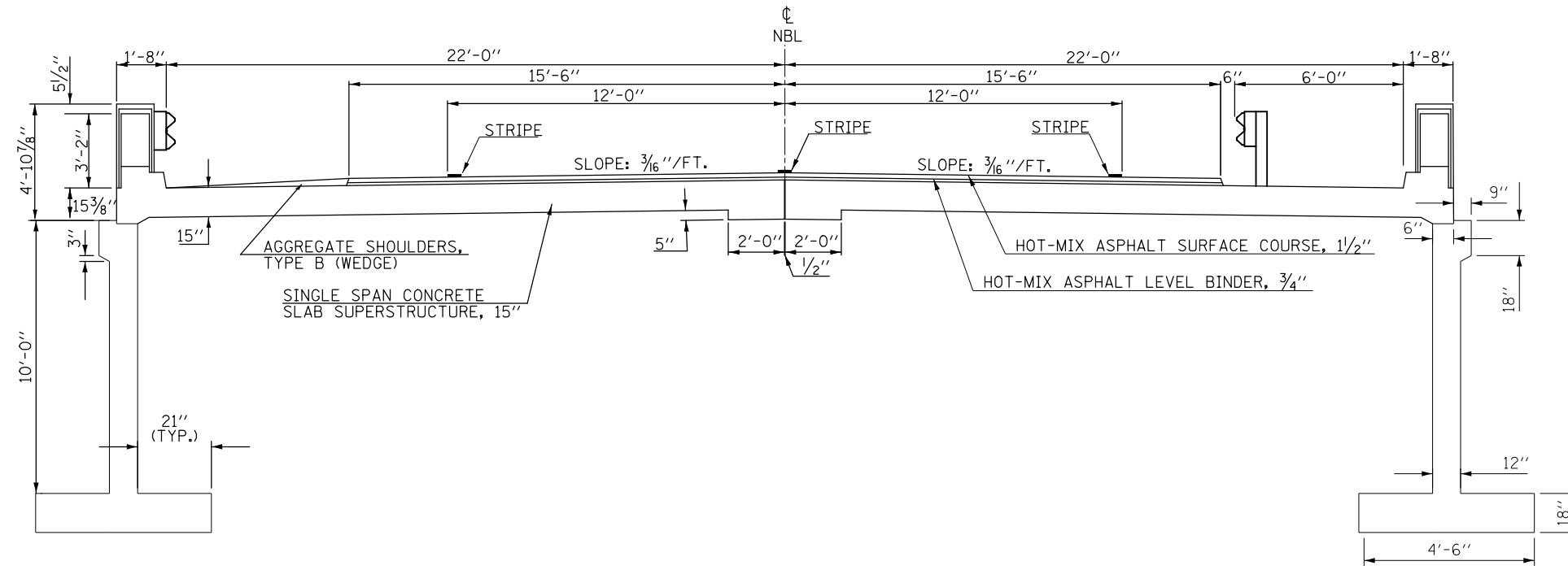
SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14BR & DM	MCLEAN	87	7
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

### EXISTING TYPICAL CROSS SECTION (B)

NORTHBOUND PAVEMENT  
EXISTING S.N. 057-0037

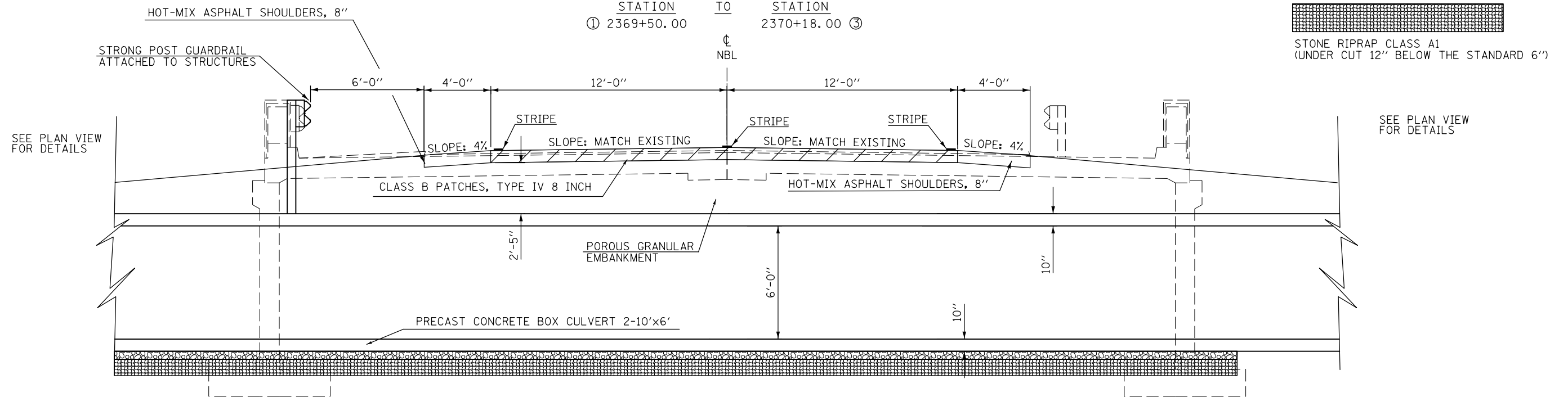
STATION TO STATION  
Ⓐ 2369+42.00 TO 2369+68.00 ⓐ



### PROPOSED TYPICAL CROSS SECTION (2)

NORTHBOUND PAVEMENT  
PROPOSED S.N. 057-2040

STATION TO STATION  
Ⓢ 2369+50.00 TO 2370+18.00 Ⓣ



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS		F.A.S. RTE.		COUNTY		TOTAL SHEETS	SHEET NO.
EXISTING S.N. 057-0037 / PROPOSED S.N. 057-2040		294	14BR & DM	MCLEAN		87	8
SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.		<b>CONTRACT NO. 70533</b>					

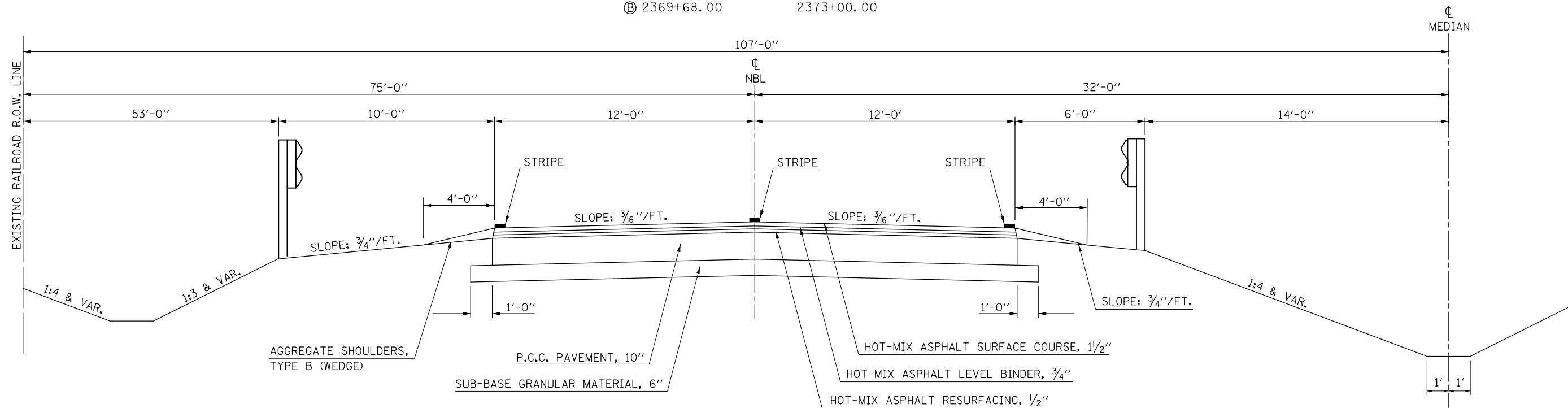
ILLINOIS FED. AID PROJECT



### EXISTING TYPICAL CROSS SECTION (C)

#### NORTHBOUND PAVEMENT

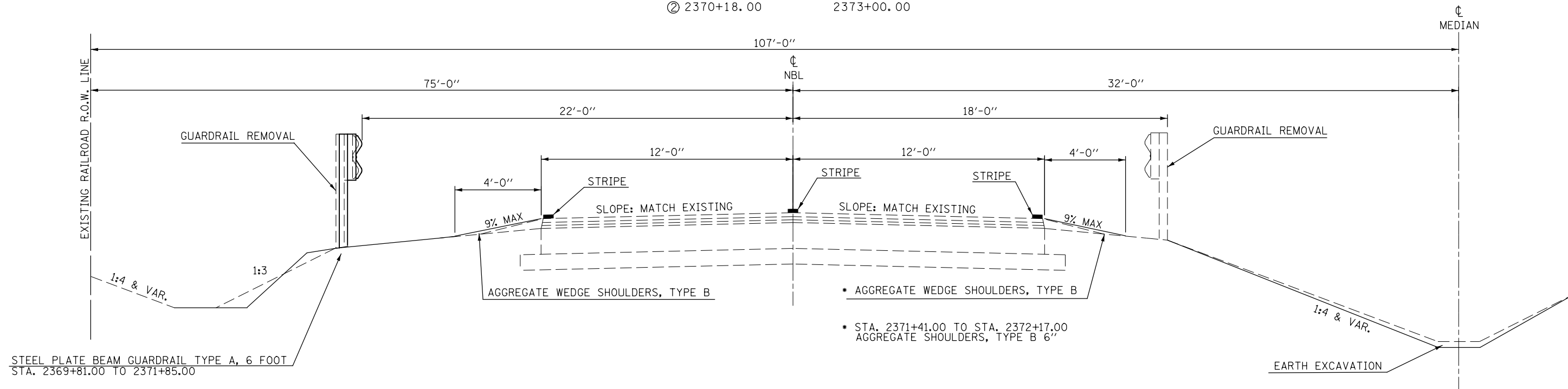
STATION TO STATION  
 (B) 2369+68.00 2373+00.00



### PROPOSED TYPICAL CROSS SECTION (3)

#### NORTHBOUND PAVEMENT

STATION TO STATION  
 (2) 2370+18.00 2373+00.00



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p:\11084EBID\INTEG.illinois.gov\PI\DOT\Documents\IDOT Offices\District 5\Projects\05052\Drawings\Design\057-0037-shr-typical.dwg		DRAWN -	REVISED -
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	PLOT DATE = 3/21/2018	DATE - 10/26/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS  
 EXISTING S.N. 057-0037 / PROPOSED S.N. 057-2040

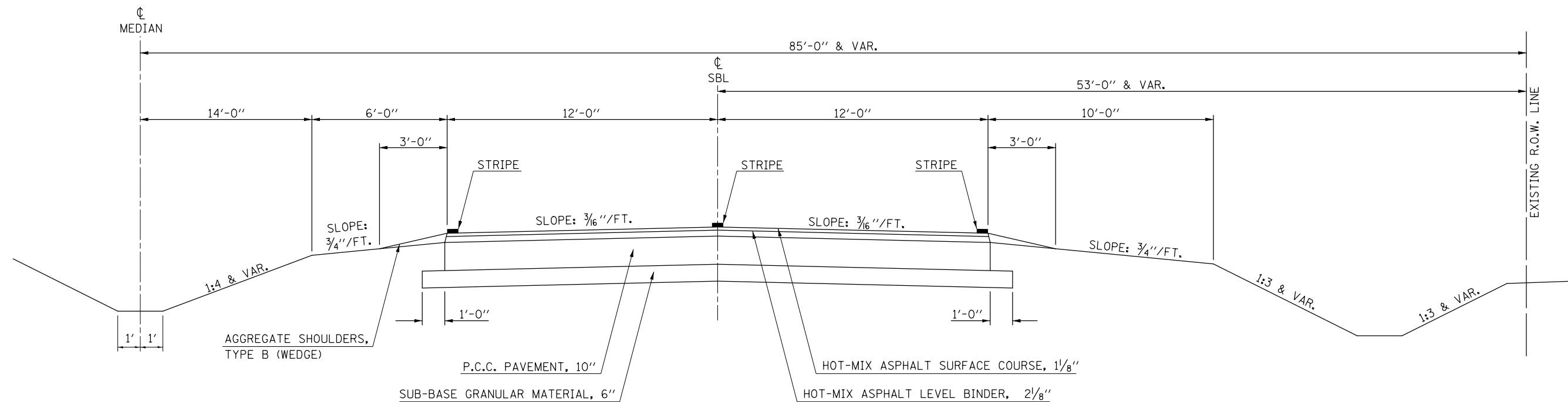
SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14BR & DM	MCLEAN	87	9
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

**EXISTING TYPICAL CROSS SECTION (D)**

ABANDONED SOUTHBOUND PAVEMENT

STATION 2367+00.00 TO STATION 2368+73.00 (E)

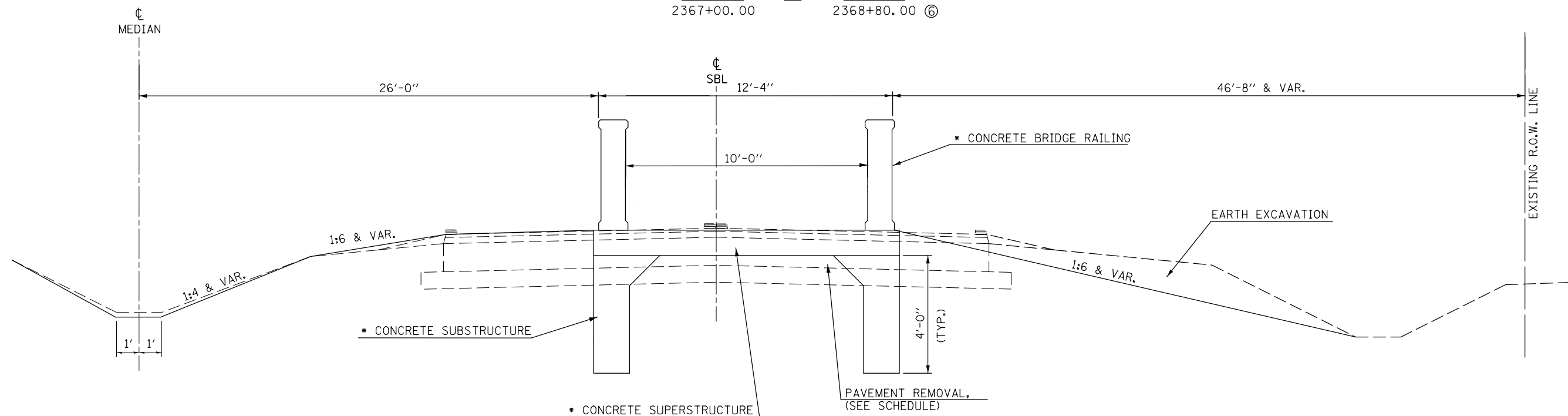


**PROPOSED TYPICAL CROSS SECTION (4)**

ABANDONED SOUTHBOUND PAVEMENT  
(PROPOSED MULTI-USE PATH FEATURE)

STATION 2367+00.00 TO STATION 2368+80.00 (G)

\* STA. 2368+00 TO STA. 2368+26.35  
OFFSET = 26.0' TO 38.33'



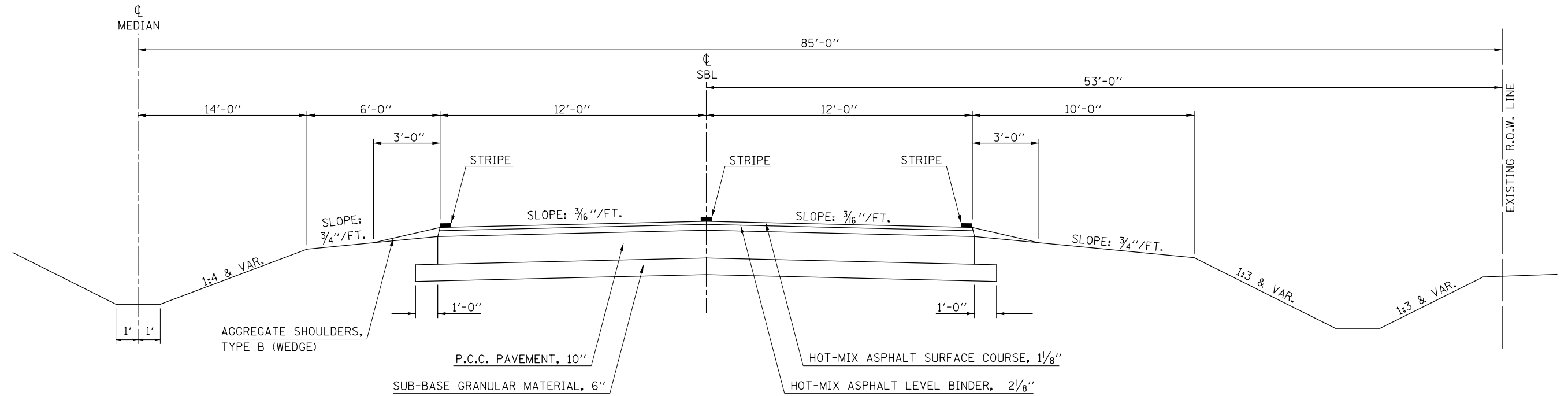
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DRAWN BY =					REVISED -	294	14BR & DM	MCLEAN	87	10		
PLOT SCALE = 40.0000' / in.					CHECKED -	REVISED -	CONTRACT NO. 70533					
PLOT DATE = 3/21/2018					DATE - 10/26/09	REVISED -	SCALE:	SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



**EXISTING TYPICAL CROSS SECTION (F)**

ABANDONED SOUTHBOUND PAVEMENT

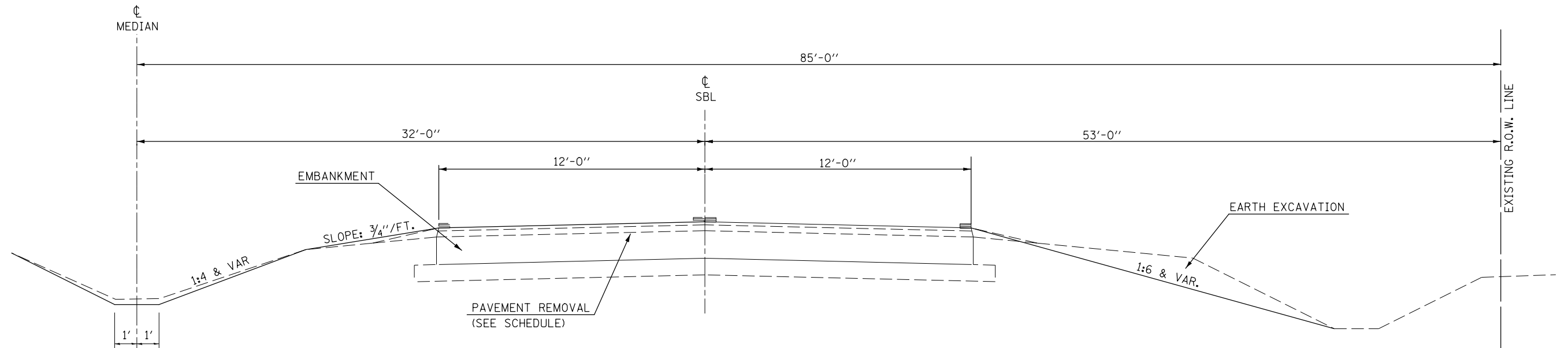
STATION TO STATION  
 ⑤ 2369+04.00 2373+00.00



**PROPOSED TYPICAL CROSS SECTION (G)**

ABANDONED SOUTHBOUND PAVEMENT

STATION TO STATION  
 ⑤ 2369+20.00 2373+00.00



FILE NAME =	USER NAME = BakerCR	DESIGNED - GAE	REVISED -
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/21/2018	DATE - 10/26/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS  
 EXISTING S.N. 057-0038 / PROPOSED S.N. 057-2040

SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14BR & DM	MCLEAN	87	12
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

## SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)				
20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)				
STATION	OFFSET		6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
2368+85.00	89.0	RT	8.0	0.0
2369+24.00	90.0	RT	8.0	0.0
2369+32.00	96.0	RT	0.0	18.0
2369+36.00	87.0	RT	0.0	18.0
TOTAL UNITS=			16.0	36.0

63200310 GUARDRAIL REMOVAL						
LOCATION	STATION	OFFSET (FOOT)	TO	STATION	OFFSET (FOOT)	QUANTITY (FOOT)
NORTH BOUND LANE RIGHT SIDE LEFT SIDE	2370+73.00	145.0 (LT)		2371+02.00	56.0 (LT)	325.0
	2368+36.00	14.0 (LT)		2371+23.00	14.0 (LT)	288.0
MEDIAN	2369+44.00	9.0 (LT)		2369+29.00	9.0 (RT)	56.5
ABANDON LANE (RIGHT SIDE)	2368+03.00	53.0 (RT)		2368+93.00	56.0 (RT)	65.0
TOTAL =						734.5
USE =						735.0

28000305 TEMPORARY DITCH CHECK				
LOCATION	STATION	OFFSET		QUANTITY (FOOT)
RIGHT CHANNEL	2367+20.00	112.5	RT	16.0
RIGHT CHANNEL	2368+00.00	101.6	RT	16.0
RIGHT DITCH	2369+50.00	77.4	RT	12.0
	2370+00.00	73.8	RT	12.0
	2370+50.00	73.8	RT	12.0
	2371+00.00	73.8	RT	12.0
	2371+50.00	73.8	RT	12.0
MEDIAN	2368+25.00	0.0	CL	12.0
	2368+70.00	0.0	CL	12.0
	2369+30.00	0.0	CL	12.0
	2369+85.00	0.0	CL	12.0
	2371+00.00	0.0	CL	12.0
	2372+00.00	0.0	CL	12.0
LEFT DITCH	2370+50.00	91.3	LT	30.0
	2371+38.00	94.5	LT	30.0
	2371+60.00	84.8	LT	12.0
	2371+78.00	120.0	LT	12.0
	2372+40.00	81.4	LT	12.0
TOTAL =				260.0

60500050 REMOVING CATCH BASINS			
STA.	OFFSET		(EACH)
2368+71.38	0.60	RT.	1.0
2370+34.58	0.14	LT.	1.0
TOTAL =			2.0

50105220 - PIPE CULVERT REMOVAL						
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	QUANTITY (FOOT)
P.E. CULVERT	2368+88.13	74.5 (RT)		2369+19.48	74.5 (RT)	31.4
MEDIAN CROSS OVER	2371+69.00	0.0		2372+19.00	0.0	50.0
TOTAL =						81.4
USE =						82.0

55100500 STORM SEWER REMOVAL 12"						
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	QUANTITY (FOOT)
EXISTING MEDIAN INLETS	2368+72.07	2.5 (RT)		2369+07.02	5.0 (RT)	35.4
	2369+34.29	0.6 (LT)		2370+34.58	0.0	100.3
TOTAL =						135.6
USE =						136.0

20400800 FURNISHED EXCAVATION					
NOTE: MATERIAL WILL BE USED TO CONSTRUCT TEMPORARY ACCESS DUE TO LACK OF EXCAVATED MATERIAL AT THE START OF PROJECT					
LOCATION	STATION	TO	STATION	DISTANCE (FT)	EXCAVATION (CU YD)
TEMPORARY PRIVATE ENTRANCE	100+30.00		100+80.00	50.00	35.00
TOTAL =					35.00
					CU YD

## SCHEDULE OF QUANTITIES

20200100 EARTH EXCAVATION					20200100 EARTH EXCAVATION (CU YD)	EXCAVATION ADJUSTED FOR SHRINKAGE -0.25%	EMBANKMENT (CU YD)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)
LOCATION	STATION	TO	STATION	DISTANCE (FT)				
MEDIAN DITCH	2368+00.00		2368+98.00	98.0	15.0	11.3	11.0	0.3
	2369+49.00		2373+00.00	351.0	270.0	202.5	1.0	201.5
PRIVATE ENTRANCE CULVERT	2368+69.33		2369+00.00	30.7	0.0	0.0	24.0	-24.0
RIGHT DITCH	2369+10.00		2372+00.00	290.0	353.0	264.8	8.0	256.8
COVER OVER PRIVATE ENT.	2368+69.00		2369+00.00	31.0	0.0	0.0	3.0	-3.0
LEFT DITCH CHANNEL	2371+74.00		2373+00.00	126.0	75.0	56.3	10.0	46.3
LEFT DITCH SWALE	2371+64.00		2372+25.00	61.0	4.0	3.0	10.0	-7.0
ORANGE ST. SWALE	396+60.00		398+05.00	145.0	48.0	36.0	86.0	-50.0
LEFT DITCH	2369+40.00		2370+09.31	69.3	2.0	1.5	86.0	-84.5
M.U.P	2367+00.00		2372+00.00	500.0	0.0	0.0	194.0	-194.0
4' SHOULDER (ORANGE ST)	2368+32.00		2369+91.00	179.40	17.8	13.4	0.0	13.4
4' SHOULDER (RT. 66)	2368+21.00		2370+18.00	197.00	19.6	14.7	0.0	14.7
				TOTAL =	804.4	603.3	433.0	170.3
				USE =	805.0	604.0	433.0	171.0
					CU YD		CU YD	CU YD

40201000 AGGREGATE FOR TEMPORARY ACCESS					
LOCATION	STATION	LENGTH (FT) AVG.	WIDTH (FOOT)	DEPTH (INCH)	QUANTITY (TON)
PRIVATE ENTRANCE	2369+08.00	70.00	16.0	8.0	50.0
		TOTAL =			50.0

44000100 PAVEMENT REMOVAL						
LOCATION	STATION	TO	STATION	(FOOT)	(WIDTH)	(SQ YD)
ABANDON LANE	2368+47.00		2368+92.00	45.0	13.0	65.0
PASSING LANE	2369+25.00		2369+35.00	10.0	13.0	14.4
	2370+35.00		2372+07.00	172.0	13.0	248.4
DRIVING LANE	2367+00.00		2368+82.00	182.0	11.0	222.4
	2369+16.00		2372+07.00	291.0	11.0	355.7
			TOTAL =	700.0	61.0	906.0
			USE =			906.0

20300100 CHANNEL EXCAVATION								
LOCATION	STATION	TO	STATION	DISTANCE (FT)	20300100 CHANNEL EXCAVATION (CU YD)	EXCAVATION ADJUSTED FOR SHRINKAGE 0.25	EMBANKMENT (CU YD)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)
RIGHT STREAM	2367+00.00		2368+70.00	170.00	537.00	402.8	23.0	379.8
LEFT STREAM	2370+06.00		2371+74.00	168.00	364.00	273.0	20.0	253.0
				TOTAL =	901.00	675.8	43.0	632.8
				USE =	902.00	676.0	43.0	633.0
					CU YD		CU YD	CU YD

28000500 INLET AND PIPE PROTECTION 28000400 PERIMETER EROSION BARRIER									
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	28000500 INLET AND PIPE PROTECTION (EACH)	28000400 PERIMETER EROSION BARRIER (FOOT)		
MEDIAN	2368+46.02	0.0				1.0			
MEDIAN	2370+38.32	0.0				1.0			
CULVERT	2369+25.00	79.0 (RT)				1.0			
RT. CHANNEL	2367+00.00	141.0 (RT)		2369+00.00	103.0 (RT)			200.0	
				TOTAL =		3.0		200.0	

## SCHEDULE OF QUANTITIES

DRAINAGE STRUCTURE SCHEDULE												
STATION	OFFSET		20700220 POROUS GRANULAR EMBANKMENT (CU YD)	281001201 STONE RIPRAP, CLASS A1 (TON)	50100300 REMOVAL OF EXISTING STRUCT NO. 1 (EACH)	50100400 REMOVAL OF EXISTING STRUCT NO. 2 (EACH)	51500100 NAME PLATES (EACH)	54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1 (EACH)	54001002 BOX CULVERT END SECTIONS CULVERT NO. 2 (EACH)	54011006 PCBC 10' X 6' (FOOT)	54010503 PCBC 5' X 3' (FOOT)	Z0038700 PERMANENT BENCH MARKS (EACH)
2369+55.00 EXISTING S.N. 057-0037	32.0	LT	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2368+91.00 EXISTING S.N. 057-0038	32.0	RT	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2369+33.67 PROPOSED S.N. 057-2040	0.0	CL	798.0	380.0	0.0	0.0	1.0	2.0	0.0	400.0	0.0	1.0
2368+99.00 PRIVATE ENTRANCE		CL	74.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	46.0	0.0
TOTAL =			872.0	380.0	1.0	1.0	1.0	2.0	1.0	400.0	46.0	1.0

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS			
X6660410 REMOVE R.O.W MARKERS (EACH)			
66600105 FURNISHING R.O.W MARKERS (EACH)			
STATION	OFFSET		
2369+22.40	85.00 (RT)	1.0	
2369+29.50	100.00 (RT)	1.0	
2370+00.00	85.0 (RT)		1.0
TOTAL		2.0	1.0

44000200 DRIVEWAY PAVEMENT REMOVAL						
LOCATION	STATION	OFFSET	TO	OFFSET	(SQ FT)	(SQ YD)
MEDIAN CROSS OVER	2371+94.00	20.0 (LT)		20.0 (RT)	1510.0	167.8
TOTAL =						167.8
USE =						168.0

44200944 CLASS B PATCHES, TYPE IV 8 INCH										
LOCATION	STATION	TO	STATION	LENGTH	WIDTH	44200944 CLASS B PATCHES, TYPE IV, 8 INCH (SQ YD)	44200050 WELDED WIRE REINFORCEMENT (SQ YD)	44213204 TIE BARS 3/4" (EACH)	44201298 DOWEL BARS 1 1/4" (EACH)	44213200 SAW CUTS (FOOT)
EXISTING RTE. 66	2369+18.00		2370+18.00	100.0	12.0	133.33	133.33	0.0	80.0	183.0
			2370+18.00	100.0	12.0	133.33	133.33	34.0	80.0	94.0
TOTAL =						266.7	266.7	34.0	160.0	277.0
USE =						267.0	267.0	34.0	160.0	277.0

5422C036 PIPE CULVERTS, CLASS C, TYPE 2 36" (TEMPORARY)						
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	(FOOT)
PRIVATE ENTRANCE	2369+19.00	79.0 (LT)		2369+53.00	79.0 (LT)	34.0
TOTAL =						34.0

## SCHEDULE OF QUANTITIES

60236200 INLETS, TYPE A, TYPE 8 GRATE							
STATION	OFFSET	ELEV. TOP OF GRATE	ELEV. TOP OF MASONARY	ELEV. USFL (PIPE) INVERT	ELEV. DSFL (PIPE) INVERT AT CULVERT	DEPTH OF INLET (FT)	QUANTITY (EACH)
2368+46.00	0.00'	721.66	721.58	719.08	717.00	3.0	1.0
2370+38.00	0.00'	720.00	719.92	717.57	717.00	3.0	1.0
TOTAL =							2.0

40200100 AGGREGATE SURFACE COURSE, TYPE A							
LOCATION	CENTER LINE OFFSET	TO	CENTER LINE OFFSET	LENGTH (FOOT)	(AVG) WIDTH (FOOT)	DEPTH (INCH)	QUANTITY (TON)
PRIVATE ENTRANCE	10.0 (LT)		60.0 (RT)	70.0	16.0	8.0	49.8
PRIVATE ENTRANCE	60.0 (RT)		104.0 (RT)	44.0	13.0	8.0	25.4
TOTAL =							75.2
USE =							76.0
TOTAL =							TON

542A1060 PIPE CULVERT, CLASS A, TYPE 2 15"						
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	(FOOT)
MEDIAN INLETS	2368+46.00	0.0 (RT)		2368+81.00	36.0 (RT)	51.0
	2369+49.00	0.0 (LT)		2370+38.00	0.0 (LT)	89.0
TOTAL =						140.0

28100107 - STONE RIPRAP, CLASS A4 28200200 - FILTER FABRIC							
LOCATION	STA	OFFSET (FOOT)	TO	STA	OFFSET (FOOT)	28100107 QUANTITY (SQ YD)	28200200 QUANTITY (SQ YD)
LEFT CHANNEL EMBANKMENT	2369+44.00	62.0 (LT)		2370+55.00	100.0 (LT)	198.0	198.0
RIGHT CHANNEL EMBANKMENT	2368+55.00	102.0 (RT)		2368+78.00	85.0 (RT)	46.0	46.0
TOTAL =						244.0	244.0

X0900064 MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES				
LOCATION	LENGTH (FOOT)	WIDTH + OVERLAP (FOOT)	(SQ YD)	USE
S.N. 057-2040	201.0	25.58	571.29	572.0
PRIVATE ENTRANCE	48.0	8.00	42.67	43.0
TOTAL =				615.0

48101500 AGGREGATE SHOULDERS, TYPE B 6"									
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	LENGTH (FOOT)	WIDTH (FOOT)	DEPTH (INCH)	QUANTITY (SQ YD)
CROSS OVER MEDIAN	2371+41.00	20.0 (LT)		2372+17.00	20.0 (LT)	76.0	4.0	6.0	33.8
TOTAL =									33.8
USE =									34.0
TOTAL =									SQ YD



# SCHEDULE OF QUANTITIES

40800025 BITUMINOUS MATERIAL (PRIME COAT)									48203029 HMA SHOULDERS 8" (SQ YD)	40800050 INCIDENTAL HMA SURFACING (TON)	40800029 BITUMINOUS MATERIAL (TACK COAT) (.025LB/SQ FT)	40800025 BITUMINOUS MATERIAL (PRIME COAT) (.25LB/SQ FT)
STATION	OFFSET	TO	STATION	OFFSET	WIDTH (FOOT)	LENGTH AVG (FOOT)	(SQ YD)	(DEPTH) (INCHES)				
2368+32.00	51.2 (L)		2369+91.00	133.7 (L)	4.0	179.4	79.7	8.0	79.7	0.0	17.9	179.4
2368+21.00	15.6 (L)		2370+18.00	16.0 (L)	4.0	197.0	87.6	8.0	87.6	0.0	19.7	197.0
2369+50.00	49.0 (L)		2370+18.00	49.0 (L)	4.0	68.0	30.2	8.0	30.2	0.0	6.8	68.0
2368+81.00	MAILBOX		2369+54.00	TURN OUT	6.0	61.0	40.7	8.0		18.2	0.0	91.5
TOTAL =									197.5	18.2	44.4	535.9
USE =									198.0	19.0	45.0	536.0

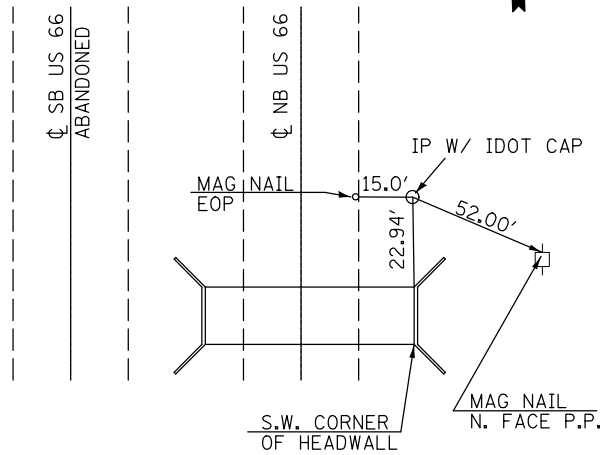
48102100 AGGREGATE WEDGE SHOULDER, TYPE B											
STA.	OFFSET		TO	STA	OFFSET		LENGTH	WIDTH	DEPTH (AVG.)	(CU YD)	(TONS)
2370+18.00	44.5	LT.		2373+00.00	44.5	LT.	282.0	4.0	0.75	31.3	56.4
2370+18.00	20.0	LT.		2371+41.00	20.0	LT.	123.0	4.0	0.75	13.7	24.6
2372+17.00	20.0	LT.		2373+00.00	20.0	LT.	83.0	4.0	0.75	9.2	16.6
TOTAL =										97.6	
USE =										98.0	

70300100 SHORT TERM PAVEMENT MARKING							70300100 SHORT TERM PAVEMENT MARKING (FOOT)	70300150 SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)
70300150 SHORT TERM PAVEMENT MARKING REMOVAL								
LOCATION	STATION	TO	STATION	(FOOT)				
RTE 66	2367+00.00		2373+00.00	600.0	60.0	20.0		
TOTAL =				600.0	60.0	20.0		

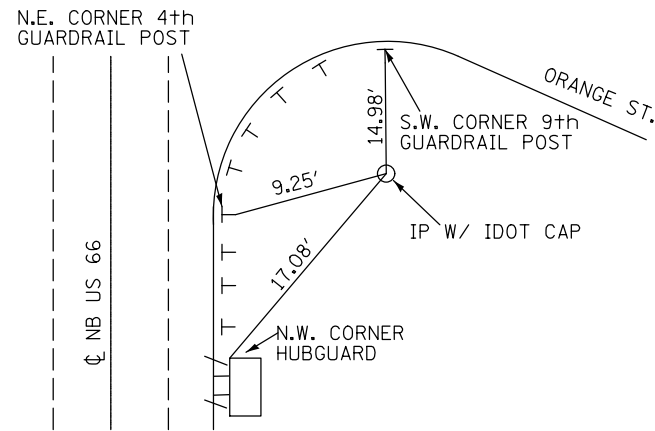
SEEDING & FERTILIZER									
LOCATION	SEE SEEDING SCHEDULE (SQ FT)	25000210 SEEDING CLASS 2 A (ACRE)	25000314 SEEDING CLASS 4B (ACRE)	25000350 SEEDING CLASS 7 (ACRE)	25000400 NITROGEN FERT (POUND)	25000500 PHOSPHORUS FERT (POUND)	25000600 POTASSIUM FERT (POUND)	25100115 MULCH METHOD 2 (ACRE)	28000250 TEMP EROSION CONTROL SEEDING (POUND)
LEFT QUADRANT	26739.05	0.14	0.48	0.62	55.25	55.25	55.25	0.62	61.38
RIGHT QUADRANT	26925.70	0.62	0.00	0.61	55.63	55.63	55.63	0.61	61.81
TOTAL =		0.75	0.48	1.23	110.88	110.88	110.88	1.23	123.20
USE		0.75	0.50	1.25	111.00	111.00	111.00	6.00	375.00

# ALIGNMENTS, TIE POINTS & BENCHMARKS

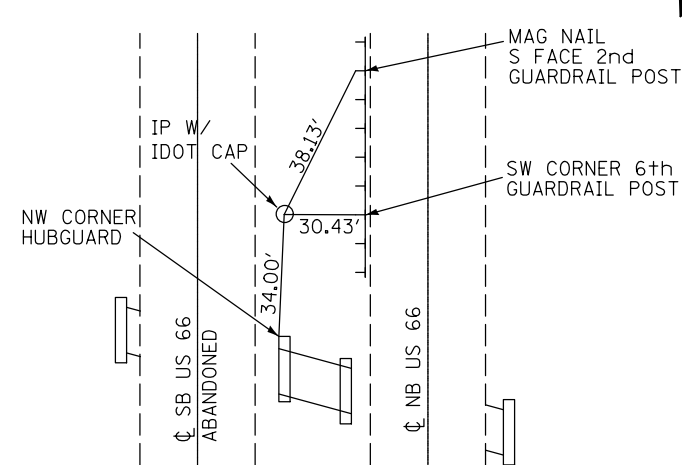
**TS 400 STA. 2381 + 84.38**  
**58.60' LT.**



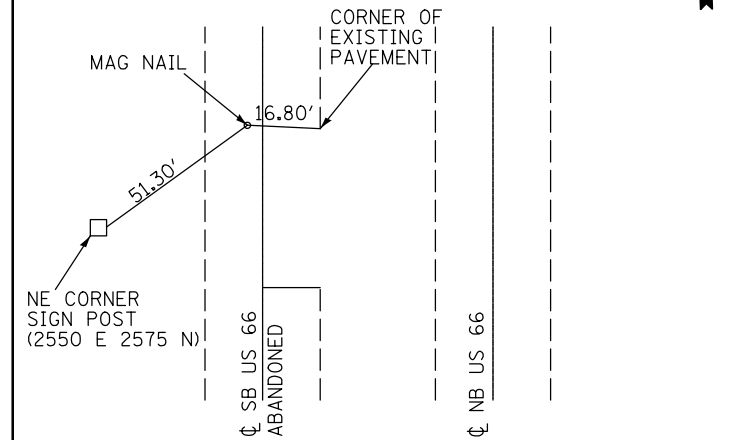
**TS 401 STA. 2369 + 51.75**  
**63.99 LT.**



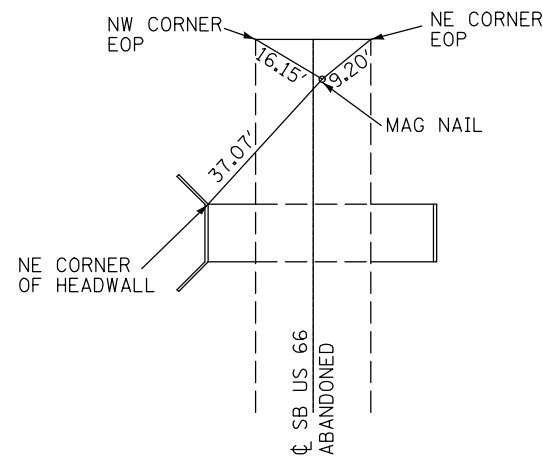
**TS 402 STA. 2368 + 67.68**  
**15.02' RT.**



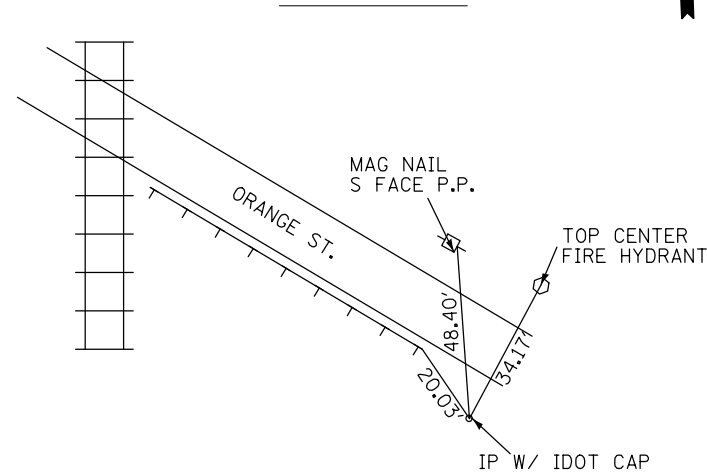
**TS 403 STA. 2366 + 43.24**  
**37.10' RT.**



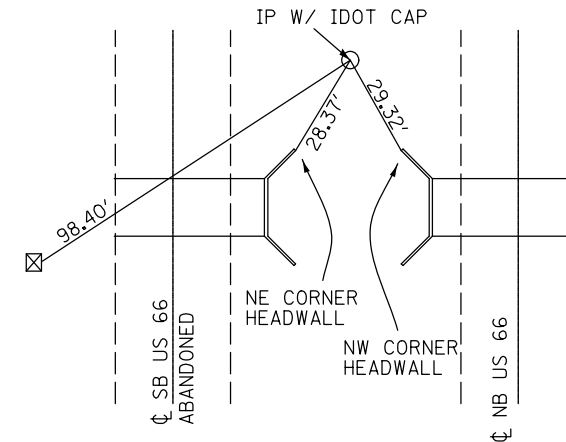
**TS 404 STA. 2360 + 92.67**  
**28.20' RT.**



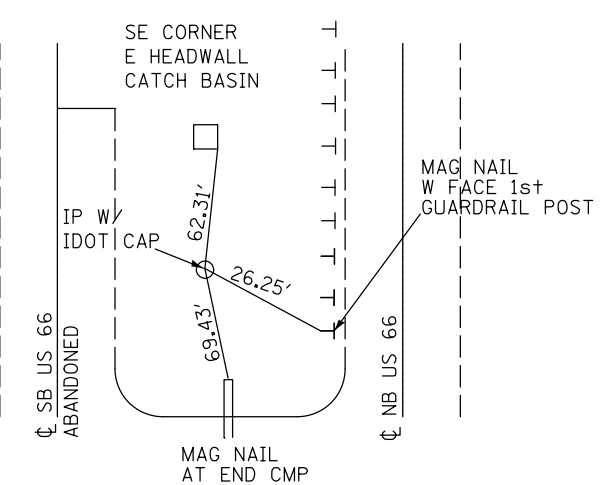
**TS 405 STA. 2372 + 79.42**  
**246.40' LT.**



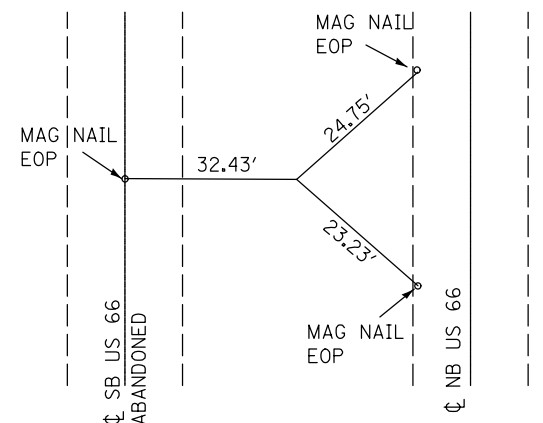
**P.O.T. #5 STA. 2392 + 70.92**



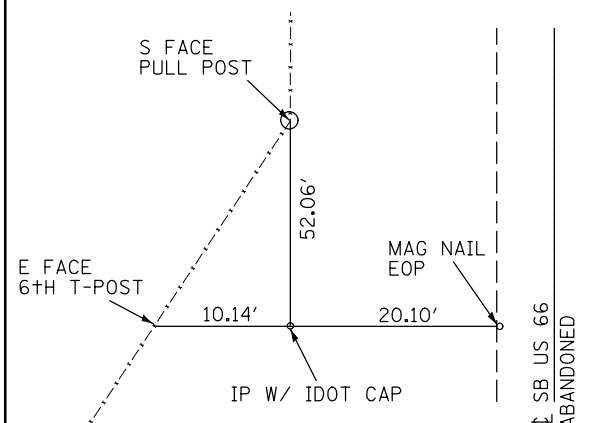
**P.O.T. #13 STA. 2371 + 00**



**P.O.T. #7 STA. 2364 + 06.98**



**P.O.T. #10 STA. 2354 + 00.00**



## BENCHMARK DESCRIPTION

BENCH MARK: 4815-1  
STATION: 2369+91.70, 57' LT.  
ELEVATION: 725.57'

TO REACH FROM THE INTERSECTION OF ORANGE ST. AND THE RAILROAD TRACKS GO SOUTH ON THE RAILROAD TRACKS FOR PLUS OR MINUS 100' TO THE MARK ON THE RIGHT. SAID MARK IS A CHISELED SQUARE LOCATED ON THE TOP OF THE WEST HEADWALL OF A CONCRETE STRUCTURE UNDER RR.

BENCH MARK: 4815-2  
STATION: 2371+57.30, 144.30' LT.  
ELEVATION: 723.98

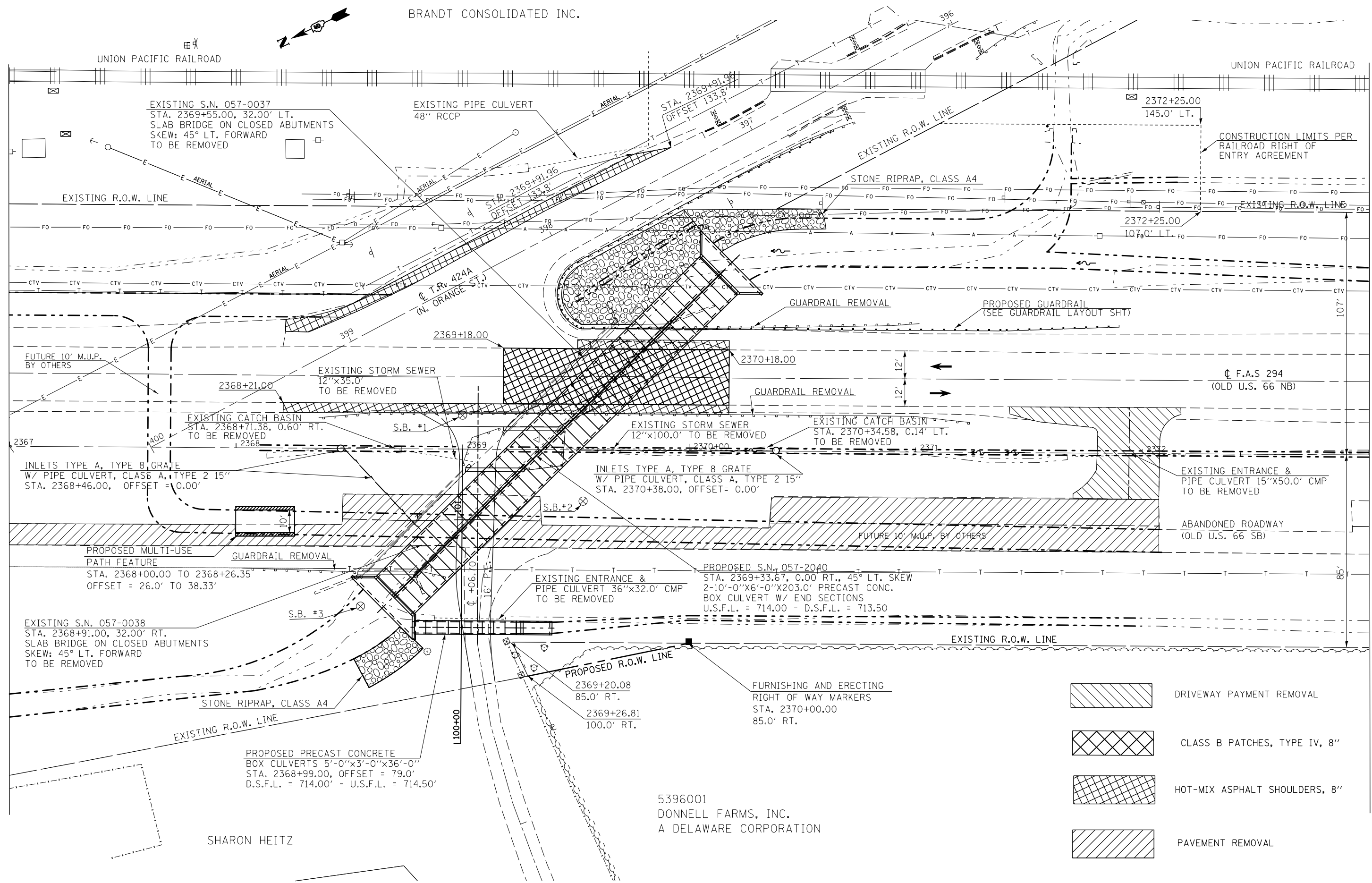
TO REACH FROM THE INTERSECTION OF US 66 AND ORANGE ST. GO SOUTH ON US 66 FOR PLUS OR MINUS 125' TO THE MARK ON THE LEFT. SAID MARK IS A CHISELED SQUARE LOCATED ON TOP OF THE SE WINGWALL OF STR. 057-0037.

FILE NAME =	USER NAME = BakerCR	DESIGNED - CRB	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\IDOT Offices\District 5\Projects\050522\Drawings\Design\0570533-sh1-ATB.dgn		CHECKED -	REVISED -
		DATE - 08/06/14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENTS, TIE POINTS &amp; BENCHMARKS</b>	
SCALE: N/A	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	18
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				



EXISTING S.N. 057-0037  
STA. 2369+55.00, 32.00' LT.  
SLAB BRIDGE ON CLOSED ABUTMENTS  
SKEW: 45° LT. FORWARD  
TO BE REMOVED

EXISTING PIPE CULVERT  
48" RCCP

STA. 2369+91.96  
OFFSET 133.8

2372+25.00  
145.0' LT.

CONSTRUCTION LIMITS PER  
RAILROAD RIGHT OF  
ENTRY AGREEMENT

EXISTING R.O.W. LINE

STONE RIPRAP, CLASS A4

2372+25.00  
107.0' LT.

EXISTING R.O.W. LINE

GUARDRAIL REMOVAL

PROPOSED GUARDRAIL  
(SEE GUARDRAIL LAYOUT SHT)

107'

FUTURE 10' M.U.P.  
BY OTHERS

EXISTING STORM SEWER  
12"x35.0'  
TO BE REMOVED

2370+18.00

GUARDRAIL REMOVAL

CL F.A.S 294  
(OLD U.S. 66 NB)

EXISTING CATCH BASIN  
STA. 2368+71.38, 0.60' RT.  
TO BE REMOVED

EXISTING STORM SEWER  
12"x100.0' TO BE REMOVED

EXISTING CATCH BASIN  
STA. 2370+34.58, 0.14' LT.  
TO BE REMOVED

INLETS TYPE A, TYPE 8 GRATE  
W/ PIPE CULVERT, CLASS A, TYPE 2 15"  
STA. 2368+46.00, OFFSET = 0.00'

INLETS TYPE A, TYPE 8 GRATE  
W/ PIPE CULVERT, CLASS A, TYPE 2 15"  
STA. 2370+38.00, OFFSET = 0.00'

EXISTING ENTRANCE &  
PIPE CULVERT 15"x50.0' CMP  
TO BE REMOVED

ABANDONED ROADWAY  
(OLD U.S. 66 SB)

PROPOSED MULTI-USE  
PATH FEATURE  
STA. 2368+00.00 TO 2368+26.35  
OFFSET = 26.0' TO 38.33'

PROPOSED S.N. 057-2040  
STA. 2369+33.67, 0.00 RT., 45° LT. SKEW  
2-10'-0"x6'-0"x203.0' PRECAST CONC.  
BOX CULVERT W/ END SECTIONS  
U.S.F.L. = 714.00 - D.S.F.L. = 713.50

EXISTING ENTRANCE &  
PIPE CULVERT 36"x32.0' CMP  
TO BE REMOVED

EXISTING R.O.W. LINE

EXISTING S.N. 057-0038  
STA. 2368+91.00, 32.00' RT.  
SLAB BRIDGE ON CLOSED ABUTMENTS  
SKEW: 45° LT. FORWARD  
TO BE REMOVED

STONE RIPRAP, CLASS A4


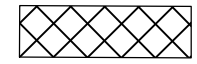


PROPOSED R.O.W. LINE

2369+20.08  
85.0' RT.

FURNISHING AND ERECTING  
RIGHT OF WAY MARKERS  
STA. 2370+00.00  
85.0' RT.

PROPOSED PRECAST CONCRETE  
BOX CULVERTS 5'-0"x3'-0"x36'-0"  
STA. 2368+99.00, OFFSET = 79.0'  
D.S.F.L. = 714.00' - U.S.F.L. = 714.50'

2369+26.81  
100.0' RT.

-  DRIVEWAY PAYMENT REMOVAL
-  CLASS B PATCHES, TYPE IV, 8"
-  HOT-MIX ASPHALT SHOULDERS, 8"
-  PAVEMENT REMOVAL

SHARON HEITZ

5396001  
DONNELL FARMS, INC.  
A DELAWARE CORPORATION

SEC. 5, T. 25 N., R. 4 E., 3rd P.M.

FILE NAME =	USER NAME = BakerCR	DESIGNED - GAE	REVISED -
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PLOT SCALE = 40.0000' / in.		DATE - 11/09/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

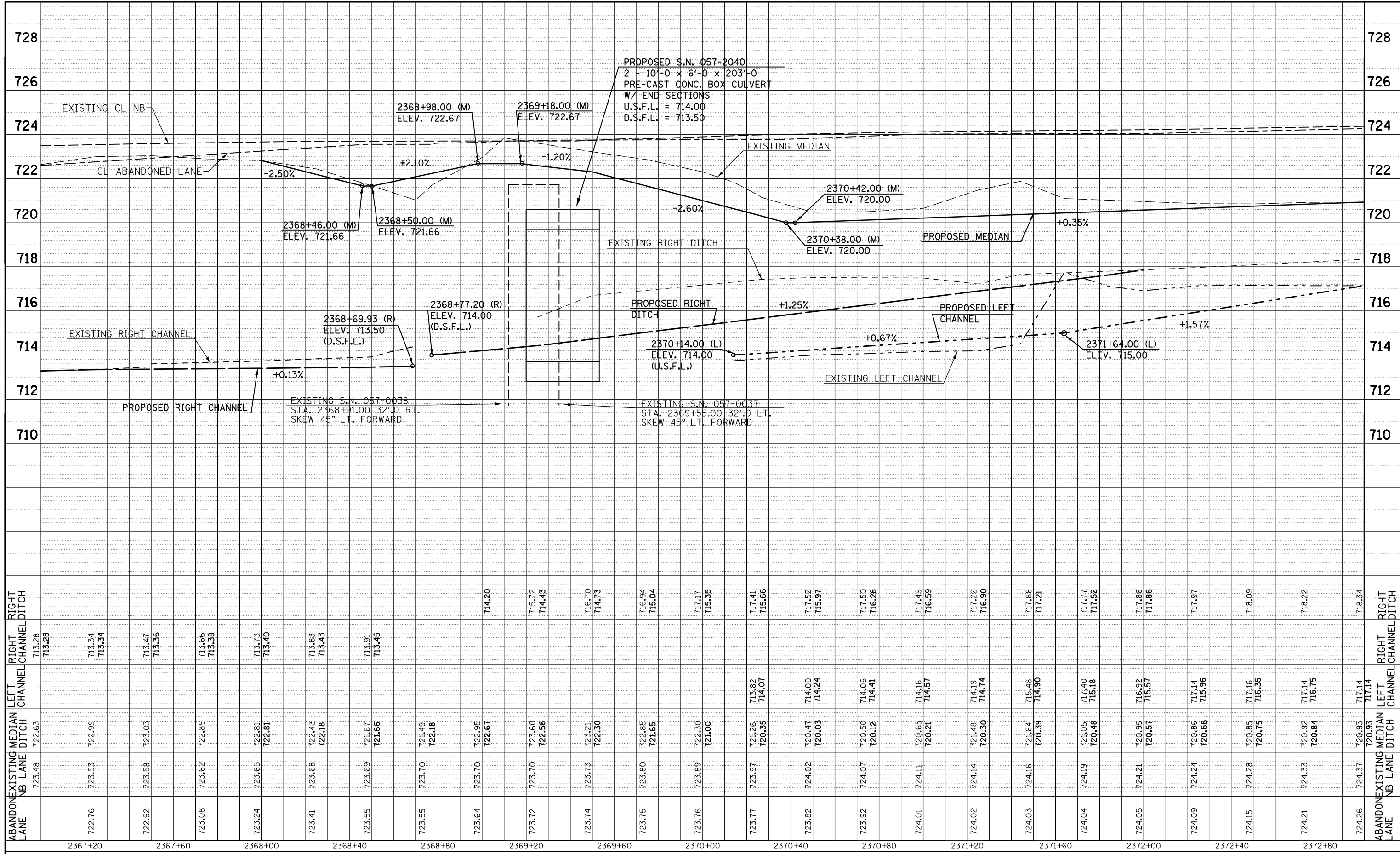
SCALE: 1"=20'-0"		SHEET NO. 1 OF 1 SHEETS		STA. 2367+00.00 TO STA. 2373+00.00	
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	19
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 70533

PLAN	SURVEYED	DATE
NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NO.	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**S.N. 057-2040 PROFILES SHEET**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	20
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

**INDEX OF SHEETS**

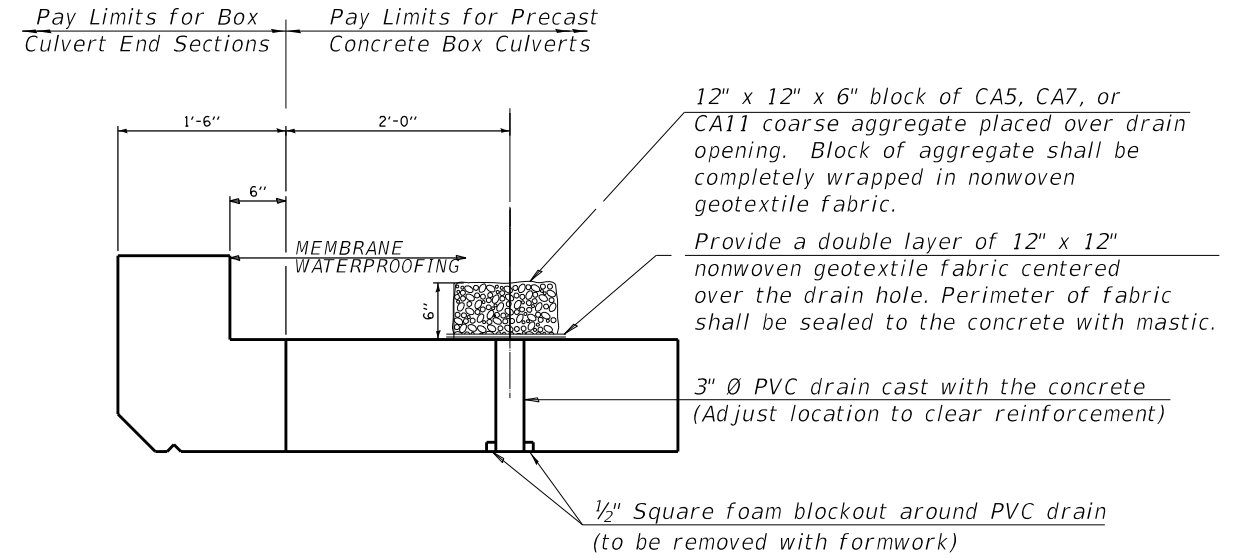
- 1. General Plan and Elevation
- 2.-5. Multi-cell Precast Concrete Box Culvert  
Apron End Section Details

**GENERAL NOTES**

The design fill height for this box is 2.5 ft. 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 below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.



**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications  
7th Edition with 2015 and 2016 interims

**DRAIN DETAIL**

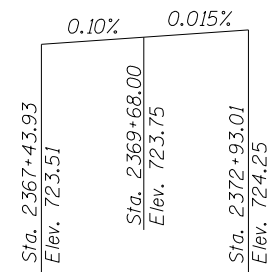
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**  
 $f'_c = 5,000 \text{ psi}$   
 $f_y = 65,000 \text{ psi}$  (Welded Wire Reinforcement)

**FIELD UNITS**  
 $f'_c = 3,500 \text{ psi}$   
 $f_y = 65,000 \text{ psi}$  (Welded Wire Reinforcement)



**PROFILE GRADE**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures NO 1	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 1	Each	2.0
Precast Concrete Box Culverts, 10'x6'	Foot	400.0
Porous Granular Embankment	Cu. Yd.	798.0
Stone RipRap, Class A1	TON	380.0
Membrane Waterproofing System for Buried Structures	Sq Yd	572.0

**WATERWAY INFORMATION**

Drainage Area = 2.313 sq. mi. Low Grade Elev. = 723.55 @ Sta. 2368+75

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	412	55	104	719.2	0.5	0.0	719.7	719.2
Base	50	669	63	118	719.9	1.4	0.0	721.3	719.9
Overtopping	100	784	66	120	720.2	2.3	0.1	722.5	720.3
Max. Calc.	500	1060	72	120	720.7	2.9	1.2	723.6	721.9

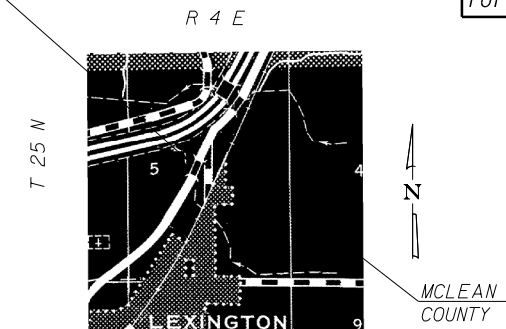
DCB-GPE

2-17-2017

STA. 2369+33.67  
S.N. 057-2040

STATION 2369+33.67  
BUILT BY  
STATE OF ILLINOIS  
F.A.S. RT. 294 SEC. 14 BR & DM  
LOADING HL-93  
STR. NO. 057-2040

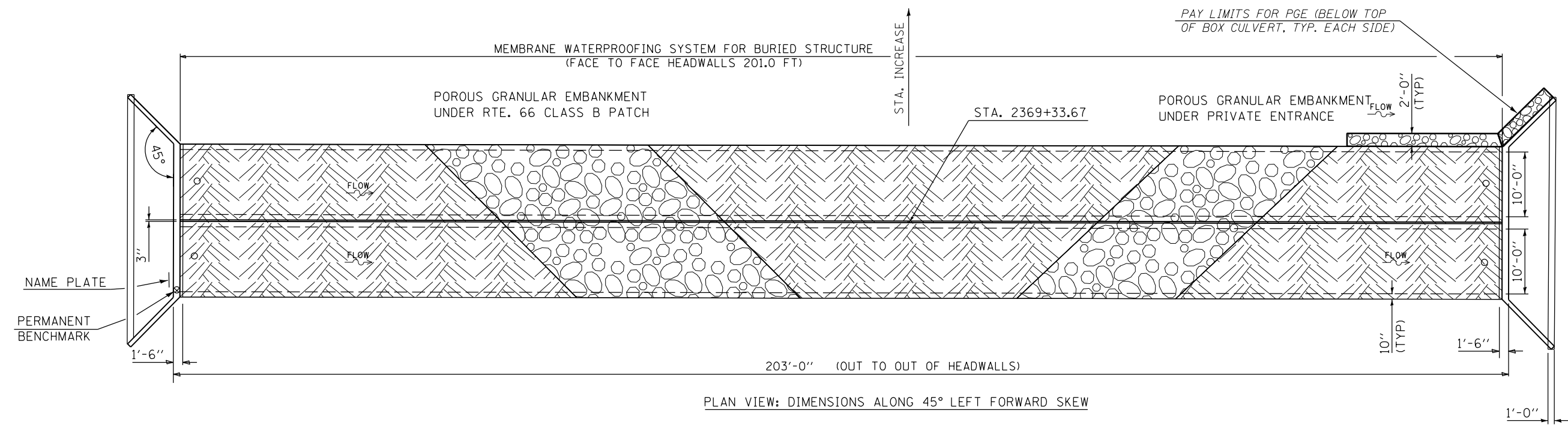
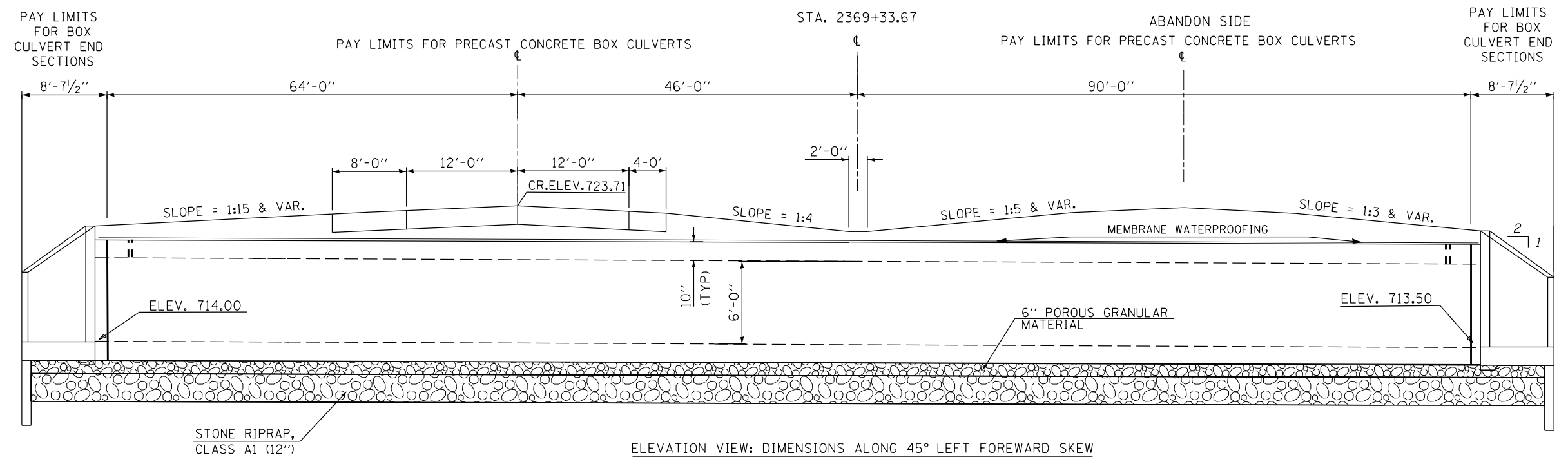
**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**OLD RTE. US 66**  
**F.A.S. RTE. 294 SEC. 14 BR & DM**  
**MCLEAN COUNTY**  
**STATION 2369+33.67**  
**S.N. 057-2040**

# PROPOSED S.N. 057-2040

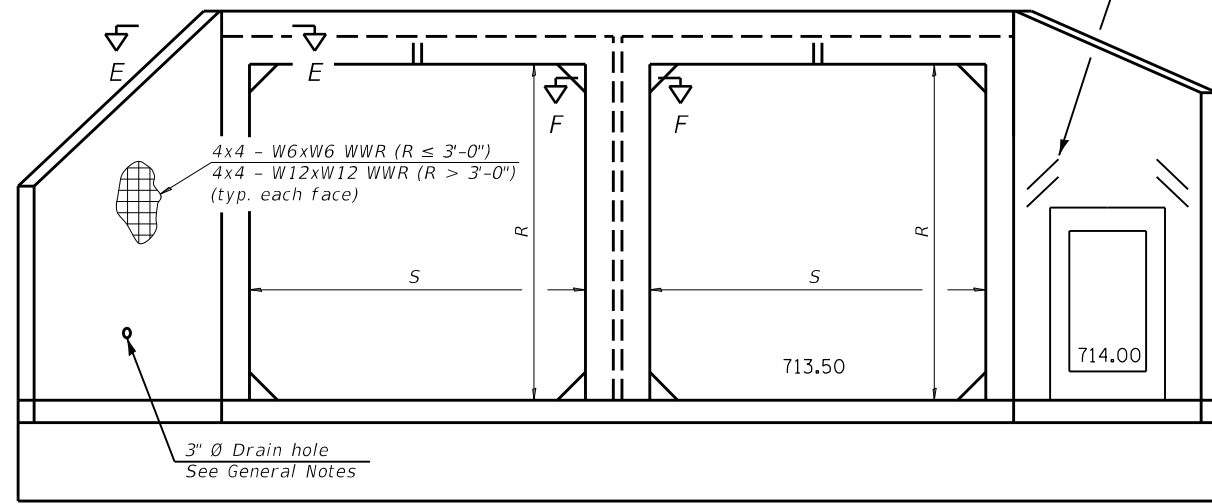


- POROUS GRANULAR MATERIAL (CA-7) (6") INCLUDED WITH PRECAST BOX CULVERT
- STONE RIPRAP, CLASS A1
- EARTH EMBANKMENT
- POROUS GRANULAR EMBANKMENT

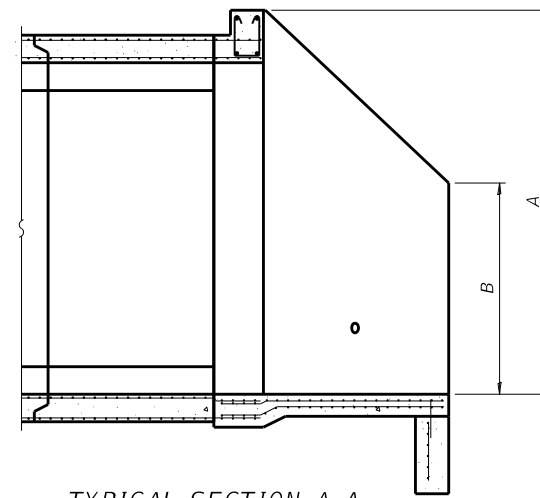
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION S.N. 057-2040</b>	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0505\Drawings\Design\0570533-sht-Details.dwg						294	14 BR & DM	MCLEAN	87	22	
MODELNAME#	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 70533					
	PLOT DATE = 5/9/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET 2 OF 5 SHEETS		STA.	TO STA.		

# PROPOSED S.N. 057-2040 DOWN STREAM (WEST SIDE)

2 - \* #4 BARS @ 6" CTS.  
EACH CORNER (2'-0")



END VIEW



TYPICAL SECTION A-A

### GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Details for Double Cell Box Culvert shown. Details for Triple Cell Box Culvert similar. The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

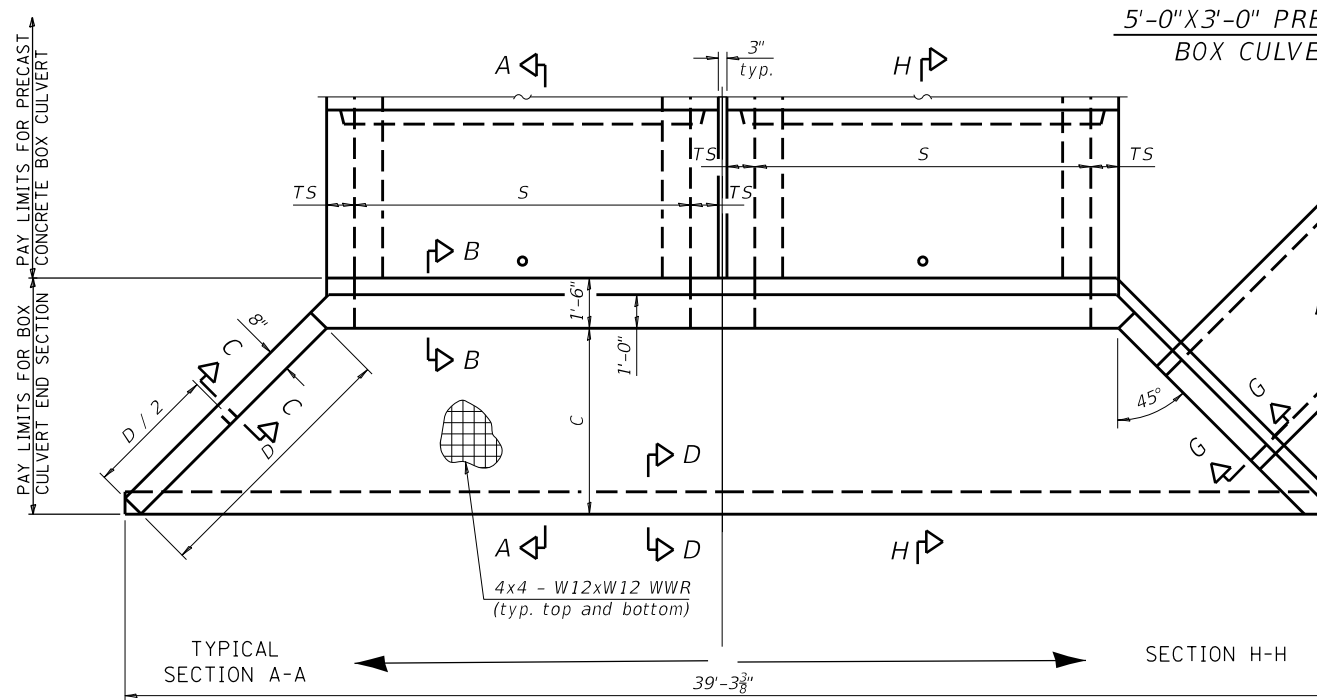
Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening 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 and shall conform to the requirements of Article 503.11 of the Standard Specifications.

### APRON END SECTION DIMENSIONS

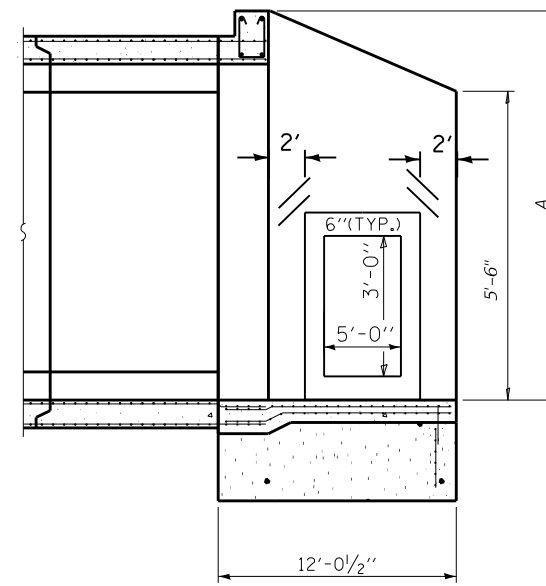
Span (S)	Rise (R)	Tt, Tb, & Ts	APRON END SECTION DIMENSIONS					Double Cell	
			A	B	C	D	E	Concrete Cu. Yd.	
7'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	23'-9"	6.6	
7'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	25'-9 1/8"	8.0	
7'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	27'-9 1/8"	9.5	
7'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	29'-9 1/8"	11.2	
7'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	31'-9 1/4"	13.1	
8'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	25'-9"	7.1	
8'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	27'-9 1/8"	8.6	
8'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	29'-9 1/8"	10.2	
8'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	31'-9 1/8"	11.9	
8'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	33'-9 1/4"	13.8	
9'-0"	2'-0"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	28'-3 3/8"	8.2	
9'-0"	3'-0"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	30'-3 3/8"	9.7	
9'-0"	4'-0"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	32'-3 3/8"	11.4	
9'-0"	5'-0"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	34'-4"	13.2	
9'-0"	6'-0"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	36'-2 3/8"	15.1	
10'-0"	2'-0"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	30'-9 1/4"	9.2	
10'-0"	3'-0"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	32'-9 1/4"	10.8	
10'-0"	4'-0"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	34'-9 3/8"	12.6	
10'-0"	5'-0"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	36'-9 3/8"	14.5	
10'-0"	6'-0"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	38'-9 3/8"	16.3	
11'-0"	2'-0"	11"	3'-8"	2'-4"	3'-2 7/8"	4'-7"	33'-4 1/8"	10.4	
11'-0"	3'-0"	11"	4'-8"	2'-10"	4'-2 7/8"	6'-0"	35'-4 1/8"	12.1	
11'-0"	4'-0"	11"	5'-8"	3'-4"	5'-2 1/2"	7'-4"	37'-2 1/4"	13.9	
11'-0"	5'-0"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	39'-2 1/8"	15.8	
11'-0"	6'-0"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	41'-2 1/8"	18.1	
12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 5/8"	4'-8"	35'-9 1/2"	11.6	
12'-0"	3'-0"	12"	4'-9"	2'-11"	4'-3 5/8"	6'-1"	37'-9 1/2"	13.4	
12'-0"	4'-0"	12"	5'-9"	3'-5"	5'-3 5/8"	7'-6"	39'-9 3/8"	15.4	
12'-0"	5'-0"	12"	6'-9"	3'-11"	6'-3 5/8"	8'-11"	41'-9 3/8"	17.6	
12'-0"	6'-0"	12"	7'-9"	4'-5"	7'-3 5/8"	10'-4"	43'-9 3/8"	19.8	

(Sheet 1 of 3)



END VIEW

PLAN



SECTION H-H

\* COST INCLUDED WITH BOX CULVERT END SECTIONS, CULVERT NO. 1

**PROPOSED S.N. 057-2040  
UPSTREAM (EAST SIDE)**

**GENERAL NOTES**

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

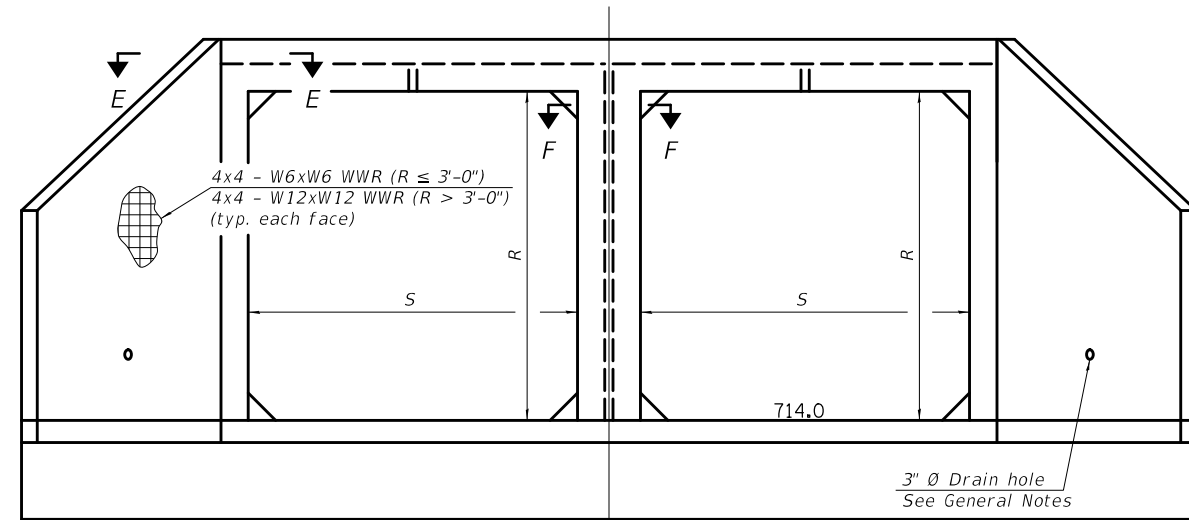
Details for Double Cell Box Culvert shown. Details for Triple Cell Box Culvert similar. The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

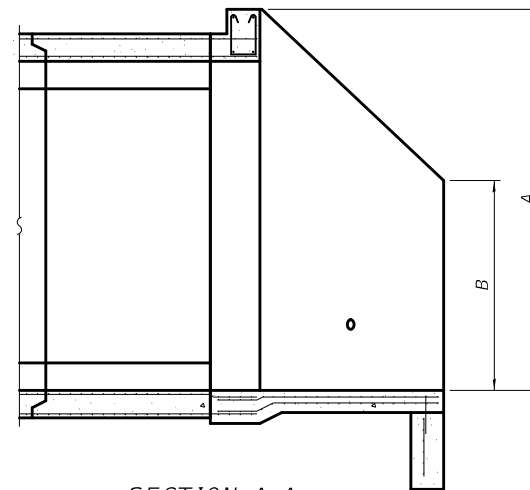
The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

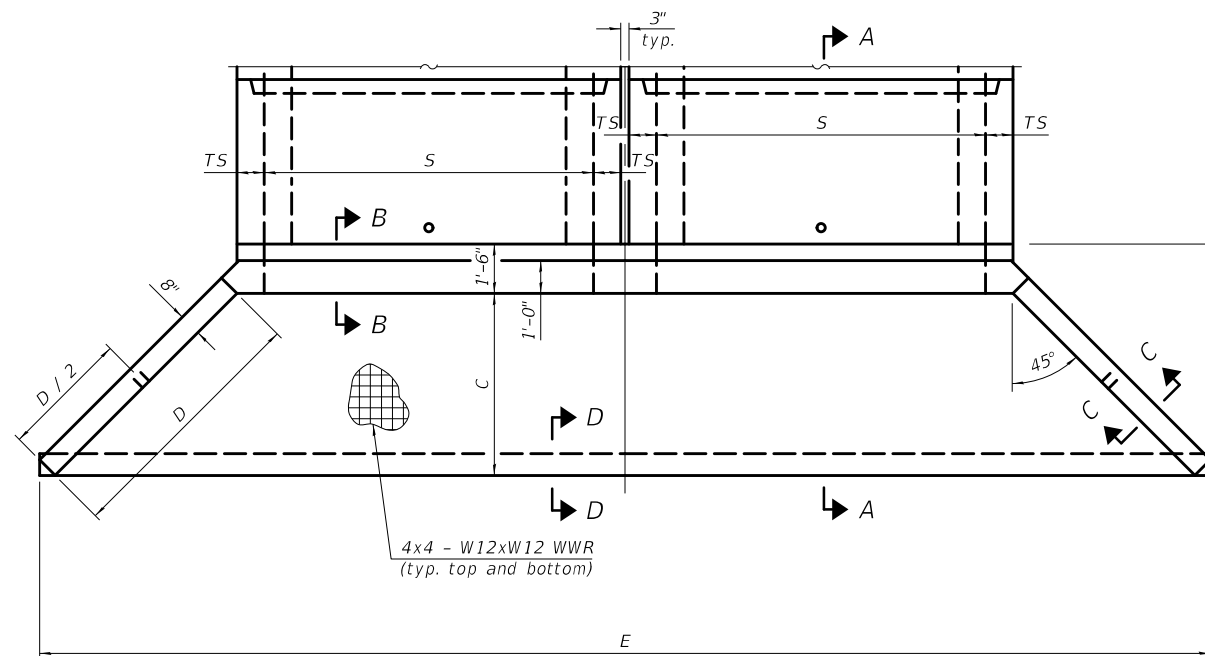
One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



**END VIEW**



**SECTION A-A**



**PLAN**

**APRON END SECTION DIMENSIONS**

Span (S)	Rise (R)	Tt, Tb, & Ts	Double Cell					Concrete Cu. Yd.
			A	B	C	D	E	
7'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	23'-9"	6.6
7'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	25'-9 1/8"	8.0
7'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	27'-9 1/8"	9.5
7'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	29'-9 1/8"	11.2
7'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	31'-9 1/4"	13.1
8'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	25'-9"	7.1
8'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	27'-9 1/8"	8.6
8'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	29'-9 1/8"	10.2
8'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	31'-9 1/8"	11.9
8'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	33'-9 1/4"	13.8
9'-0"	2'-0"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	28'-3 3/8"	8.2
9'-0"	3'-0"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	30'-3 3/8"	9.7
9'-0"	4'-0"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	32'-3 3/8"	11.4
9'-0"	5'-0"	9"	6'-6"	3'-9"	6'-0 3/8"	8'-7"	34'-4"	13.2
9'-0"	6'-0"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	36'-2 3/8"	15.1
10'-0"	2'-0"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	30'-9 1/4"	9.2
10'-0"	3'-0"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	32'-9 1/4"	10.8
10'-0"	4'-0"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	34'-9 3/8"	12.6
10'-0"	5'-0"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	36'-9 3/8"	14.5
10'-0"	6'-0"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	38'-9 3/8"	16.6
11'-0"	2'-0"	11"	3'-8"	2'-4"	3'-2 1/8"	4'-7"	33'-4 1/8"	10.4
11'-0"	3'-0"	11"	4'-8"	2'-10"	4'-2 1/8"	6'-0"	35'-4 1/8"	12.1
11'-0"	4'-0"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	37'-2 3/4"	13.9
11'-0"	5'-0"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	39'-2 1/8"	15.8
11'-0"	6'-0"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	41'-2 1/8"	18.1
12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	35'-9 1/2"	11.6
12'-0"	3'-0"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	37'-9 1/2"	13.4
12'-0"	4'-0"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	39'-9 3/8"	15.4
12'-0"	5'-0"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	41'-9 3/8"	17.6
12'-0"	6'-0"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	43'-9 3/8"	19.8

(Sheet 1 of 2)

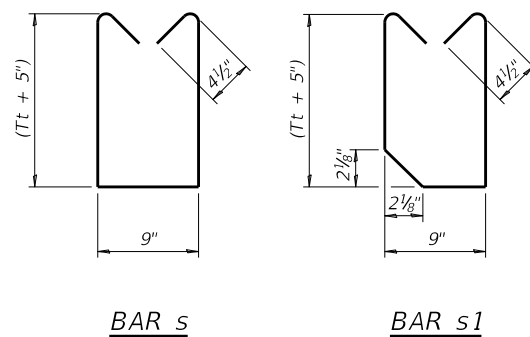
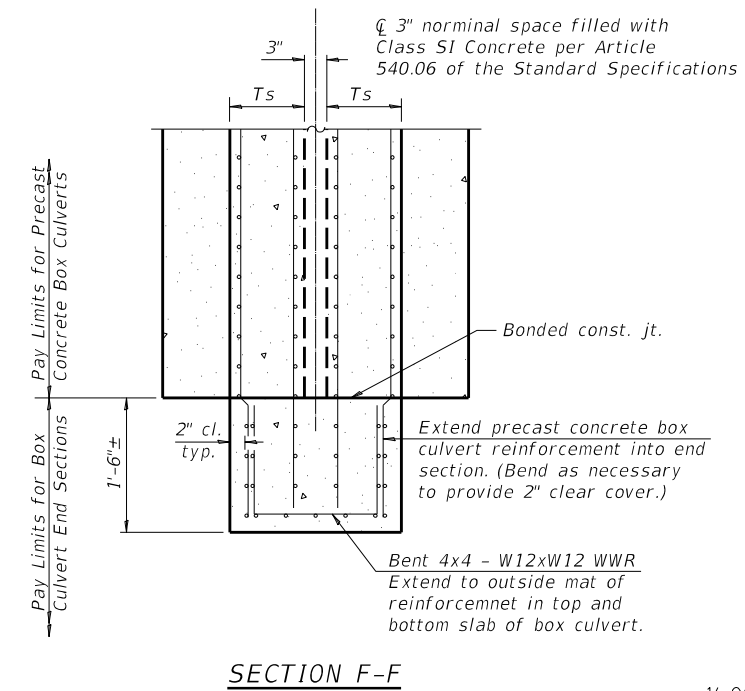
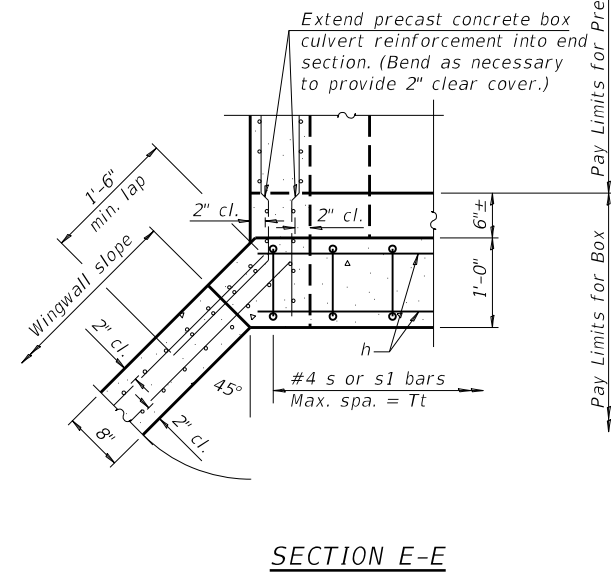
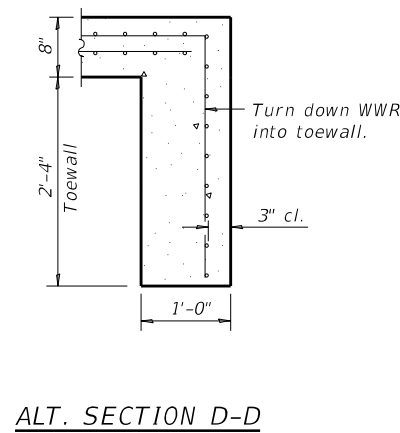
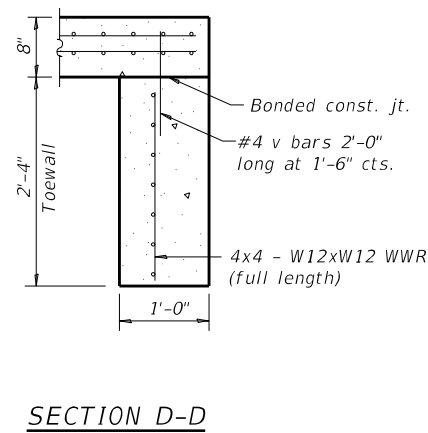
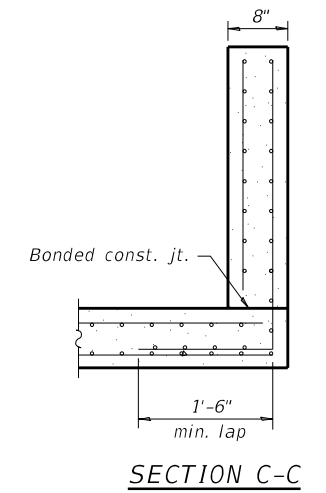
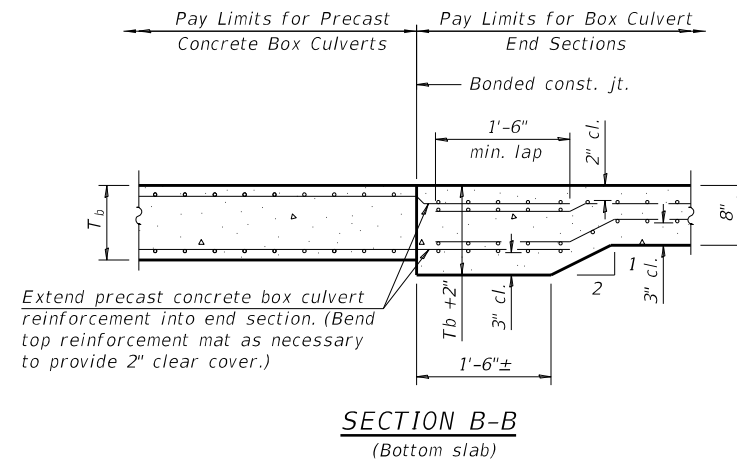
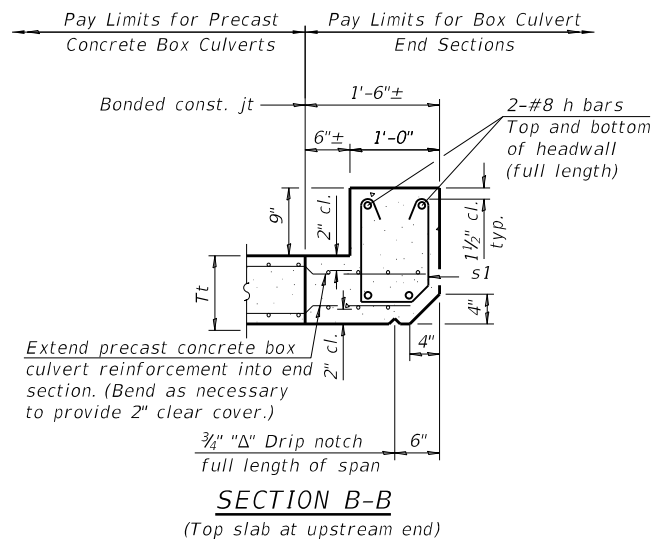
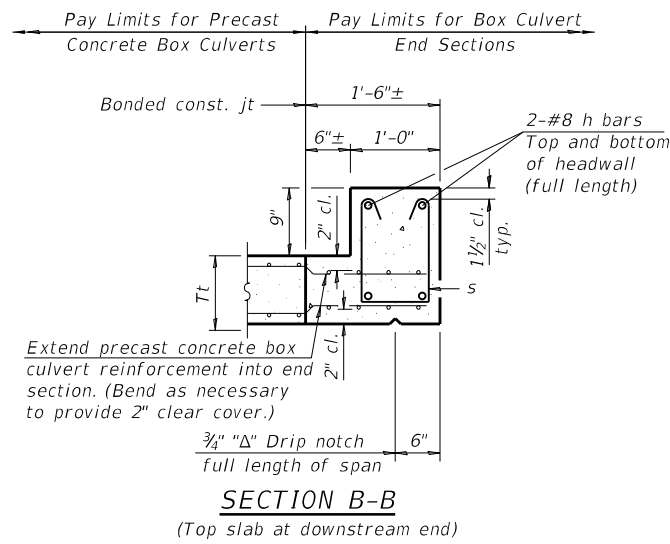
MCB-AES

2-17-2017

Pay Limits for Precast Concrete Box Culverts

Pay Limits for Box Culvert End Sections



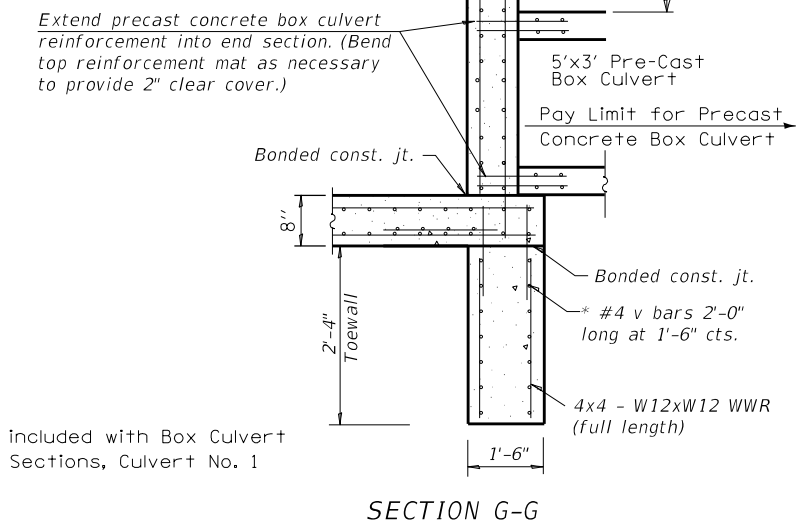


**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



\* Cost included with Box Culvert End Sections, Culvert No. 1

MCB-AES 2-17-2017

(Sheet 3 of 3)

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0502\Drawings\Design\0570533-sht-Details.dwg		CHECKED -	REVISED -			294	14 BR & DM	MCLEAN	87	25	
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -			<b>CONTRACT NO. 70533</b>					
\$MODELNAME\$						ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET 5 OF 5 SHEETS		STA.	TO STA.		

**GENERAL NOTES**

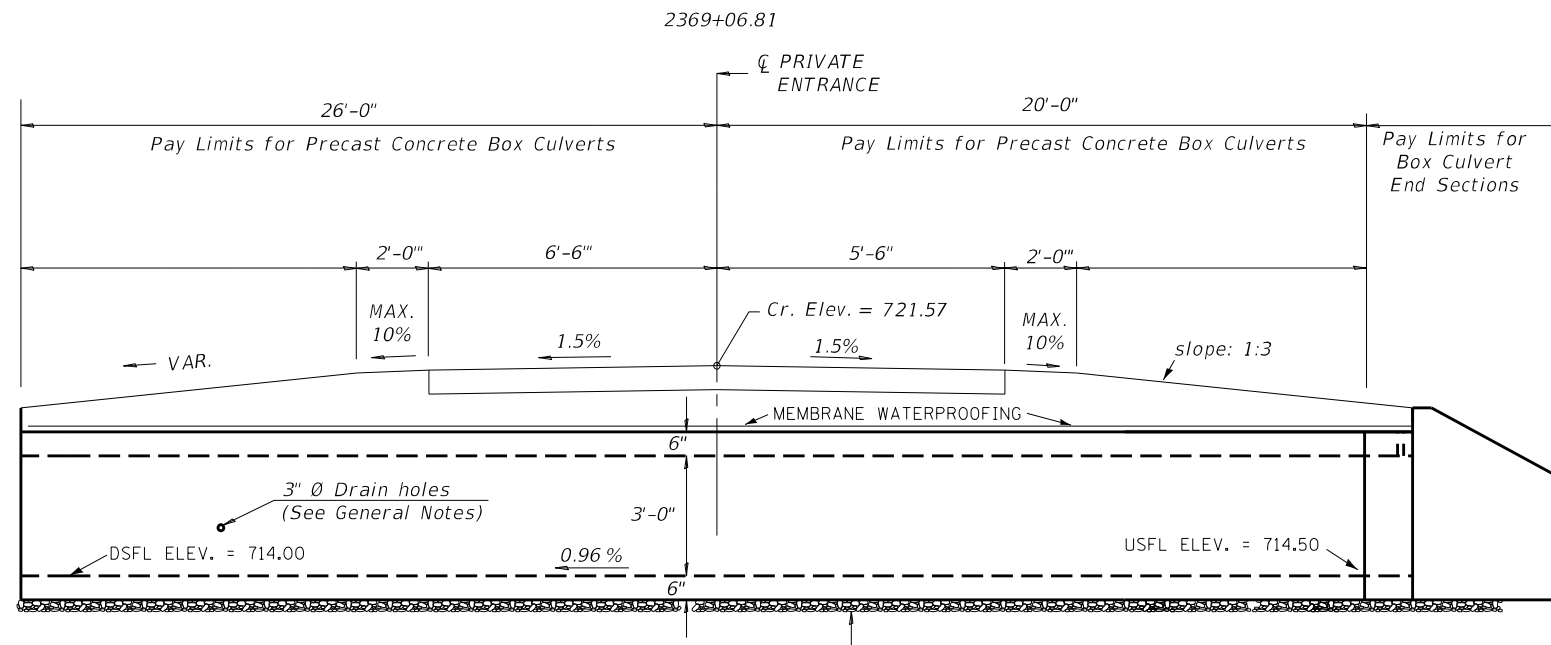
The design fill height for this box is 3.0 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

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.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the 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.

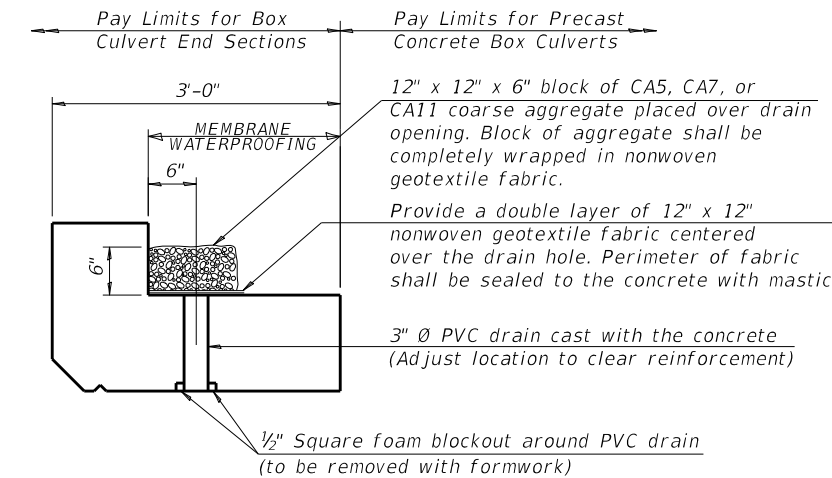
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.



**ELEVATION**

SEE S.N. 057-2040 FOR DETAILS ON END SECTION



**DRAIN DETAIL**

(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.)

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications  
7th Edition with 2015 and 2016 interims

**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  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

USE TAPERED END SECTION SEE BASE SHEET (SCB-TES)

**INDEX OF SHEETS**

- General Plan and Elevation
- 5. Precast Concrete Box Culvert Apron End Section Details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Box Culvert End Sections, Culvert No. 2	Each	1.0
Precast Concrete Box Culverts, 5'x3'	Foot	46.0
Porous Granular Embankment	Cu Yd	74.0
Membrane Waterproofing System For Buried Structures	Sq Yd	43.0

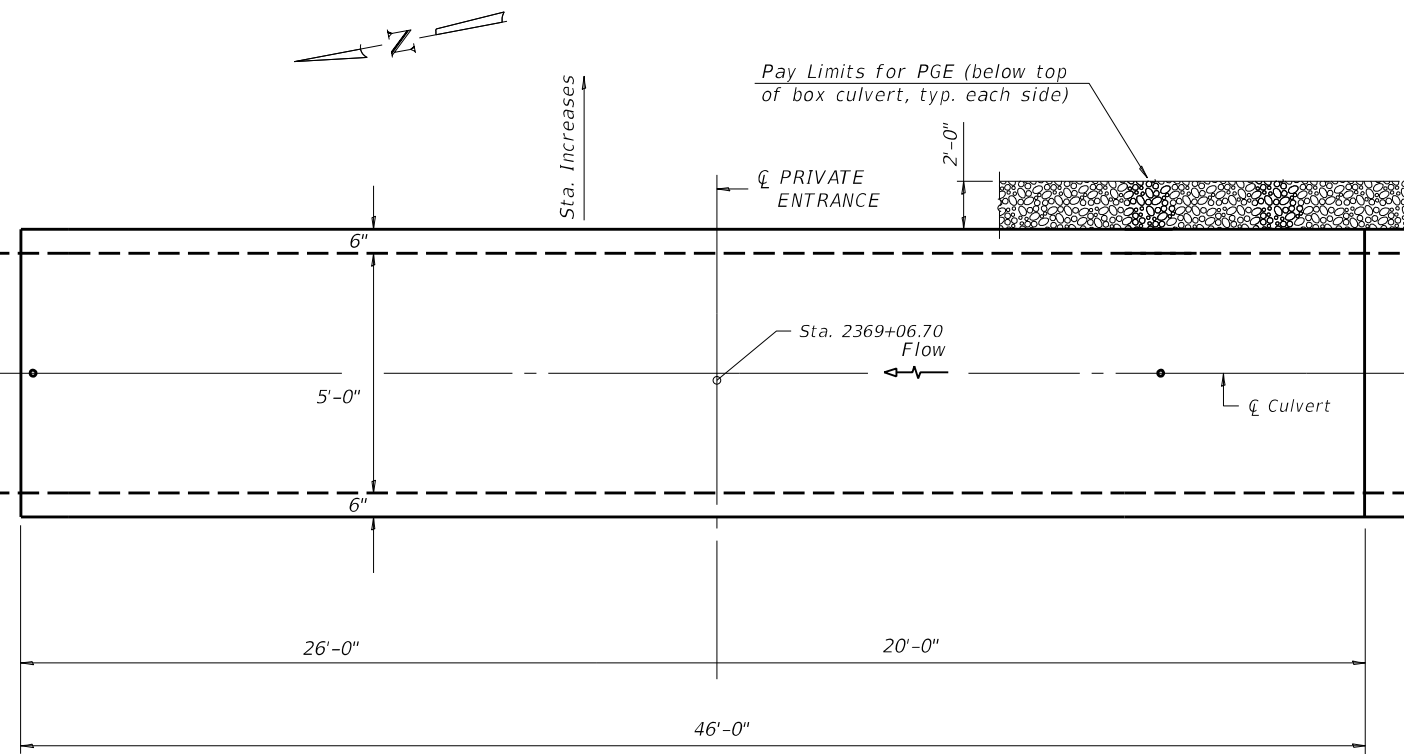
**GENERAL PLAN AND ELEVATION**

OLD RTE. 66

F.A.S. 294 SEC. 14 BR & DM

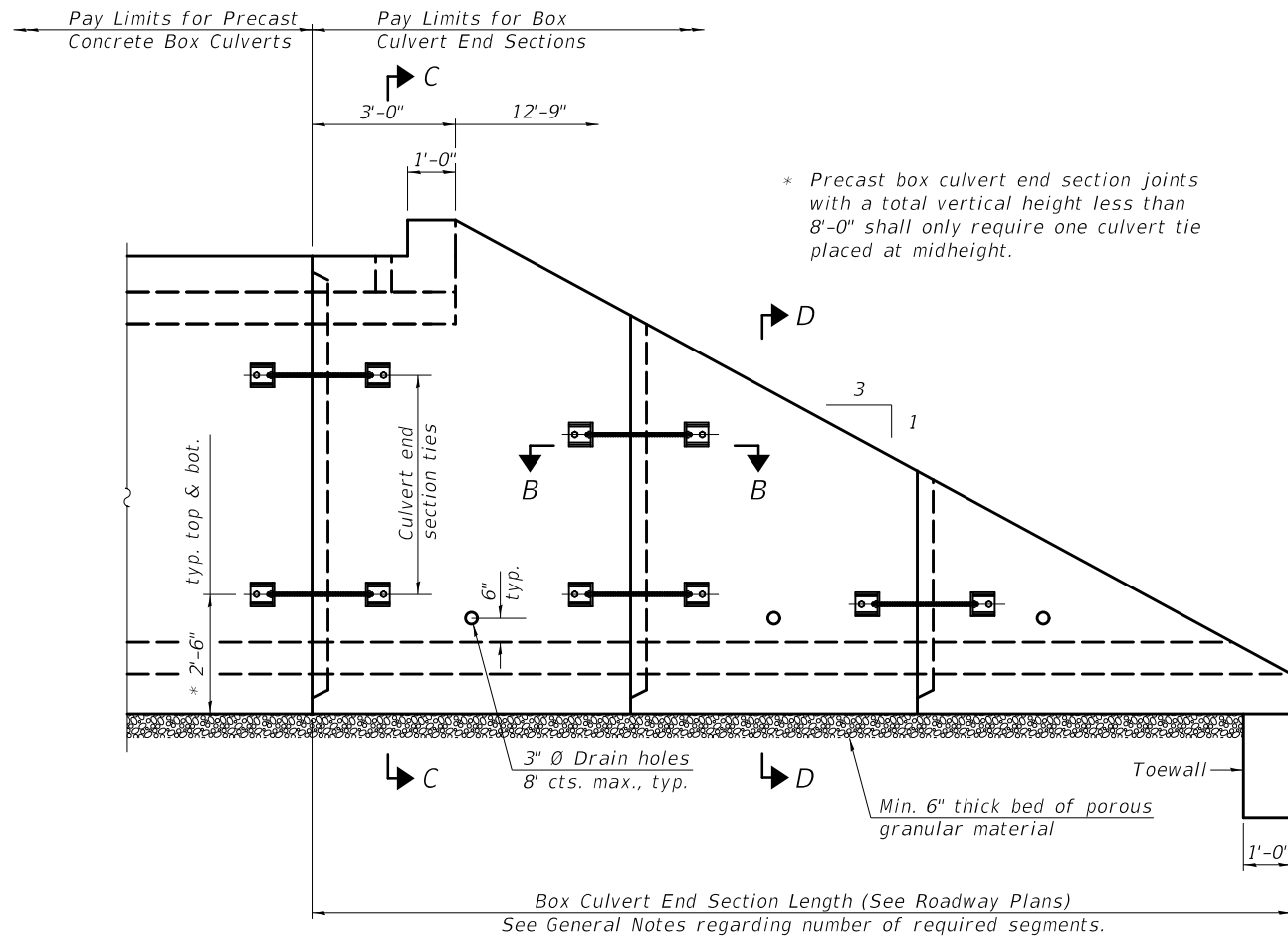
MCLEAN COUNTY

STATION 2369+06.81

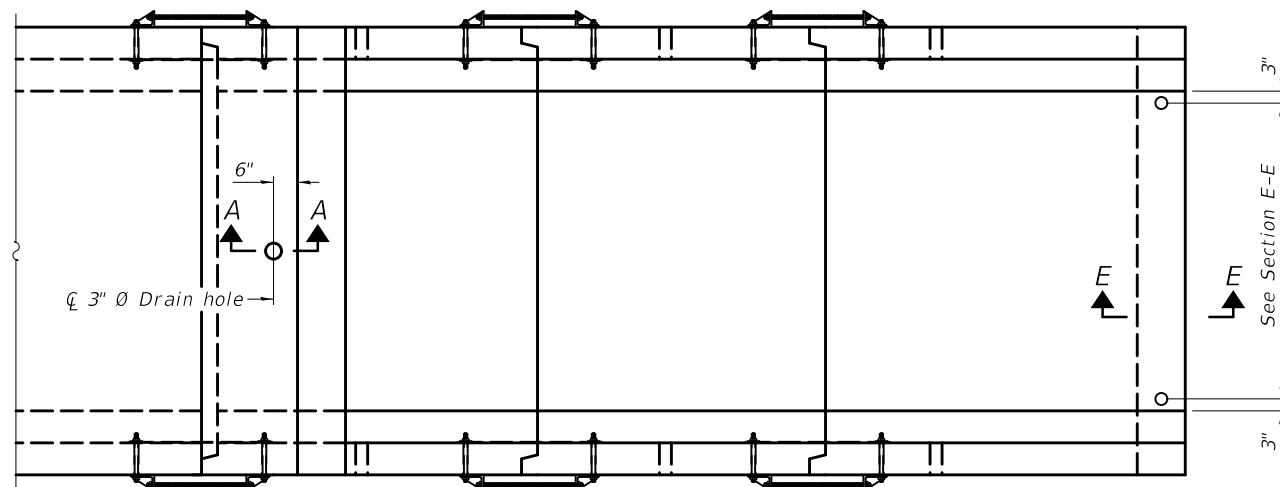


**PLAN**

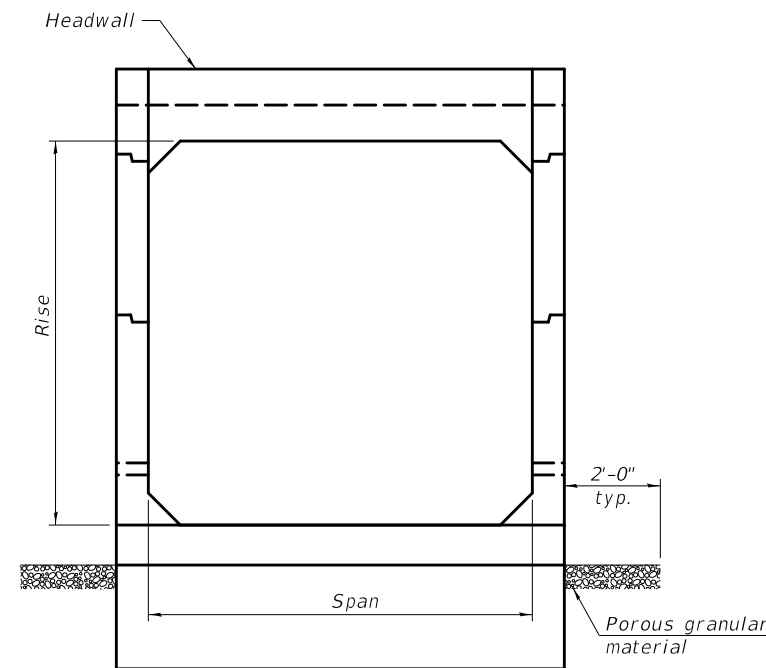
SEE S.N. 057-2040 FOR DETAILS ON END SECTION



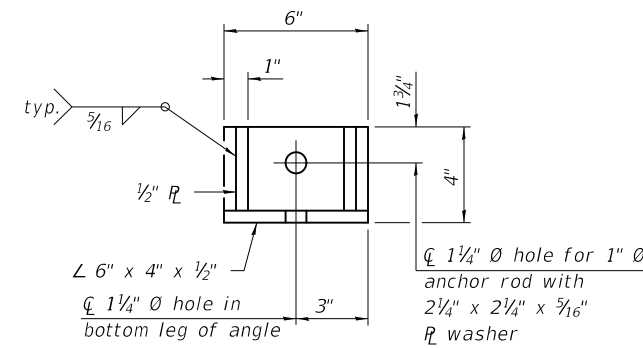
**ELEVATION**



**PLAN**



**END VIEW**



**RESTRAINT ANGLE DETAIL**

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. 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 A-A**

(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.) (Sheet 1 of 2)

**GENERAL NOTES**  
Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

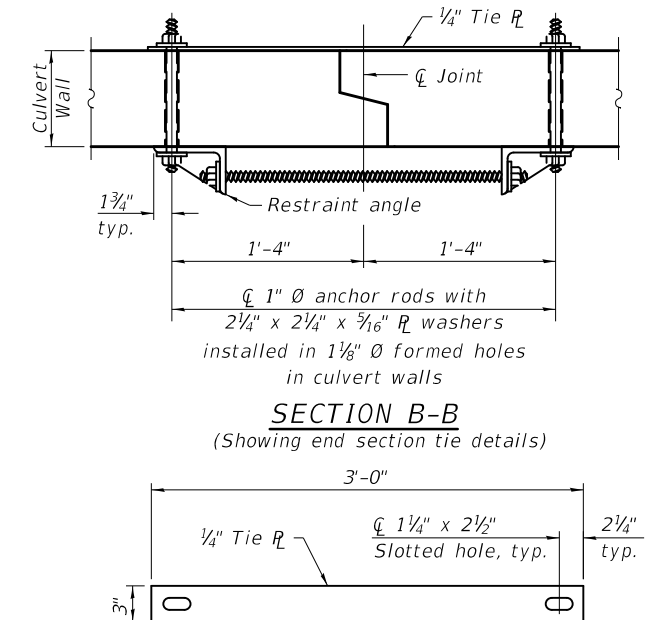
2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



**TIE PLATE DETAIL**

SCB-TES

2-17-2017

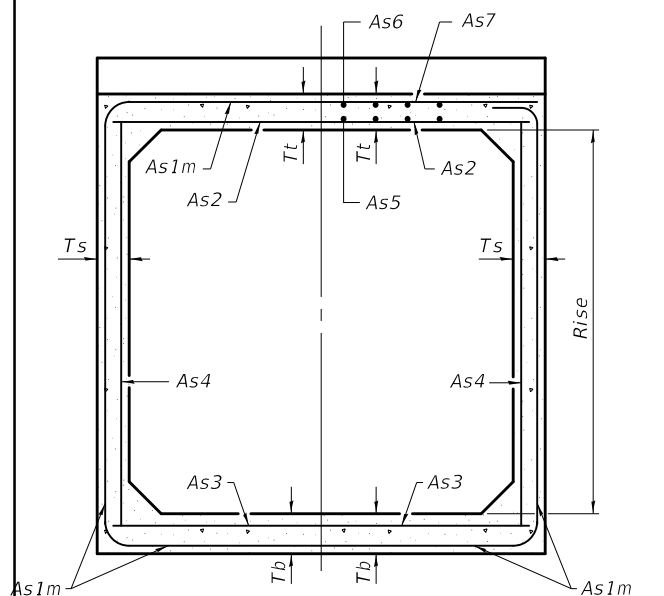
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*MODELNAME*	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTION  
PRIVATE ENTRANCE**

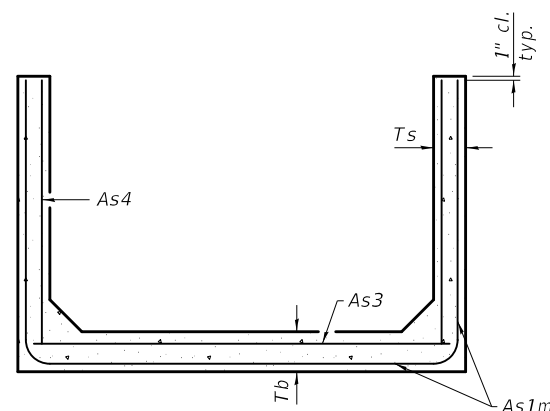
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE. 294	SECTION 14 BR & DM	COUNTY MCLEAN	TOTAL SHEETS 87	SHEET NO. 27
ILLINOIS FED. AID PROJECT				CONTRACT NO. 70533

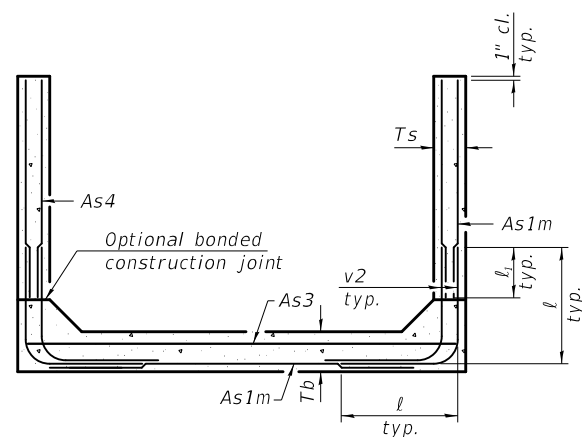


(Design Earth Cover  $\geq$  2 ft) (Design Earth Cover < 2 ft)

**SECTION C-C**



**SECTION D-D**



**ALTERNATE SECTION D-D**

<b>As1m REINFORCEMENT</b>												
(in. <sup>2</sup> /ft)												
Ts (in.)	Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17										
5	0.26	0.21	0.18									
6	0.22	0.26	0.23	0.22								
7	0.25	0.33	0.59	0.27	0.28							
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65		
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75	

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

**l<sub>1</sub> DIMENSION**

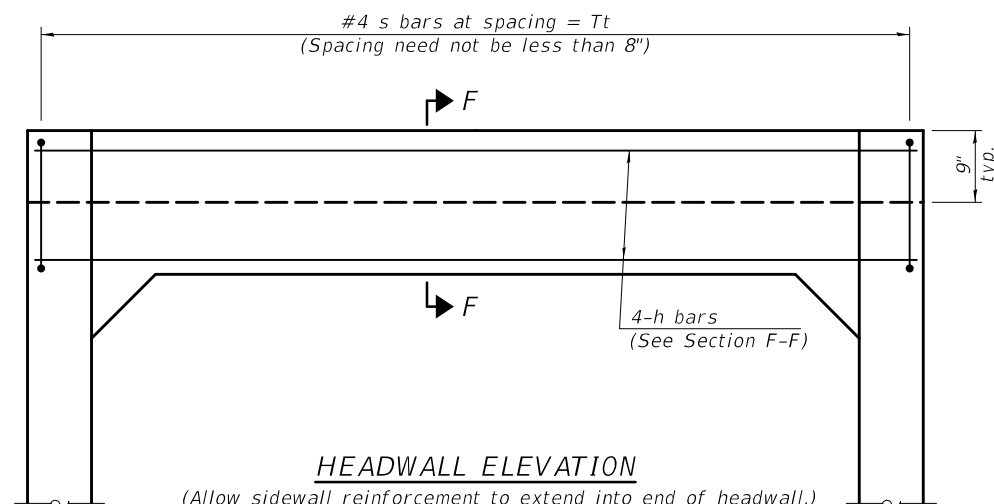
- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"

**Notes:**

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

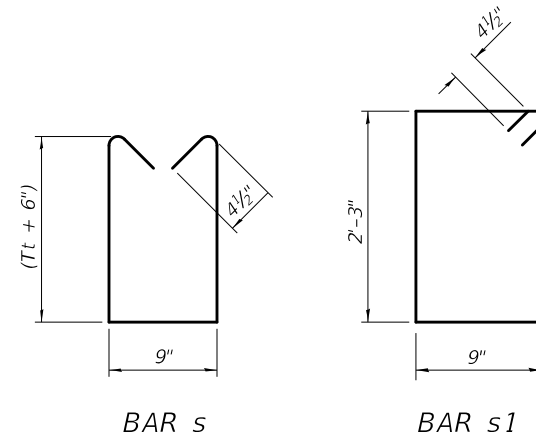
The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.<sup>2</sup>/ft.) equal to 1.10\*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



**HEADWALL ELEVATION**

(Allow sidewall reinforcement to extend into end of headwall.)



**BAR s**

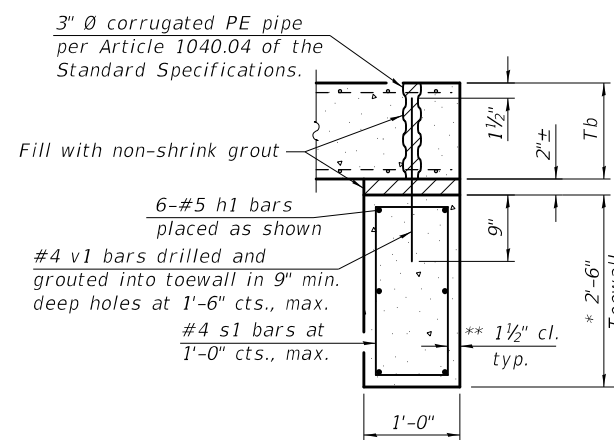
**BAR s1**

**TOEWALL CONSTRUCTION SEQUENCE**

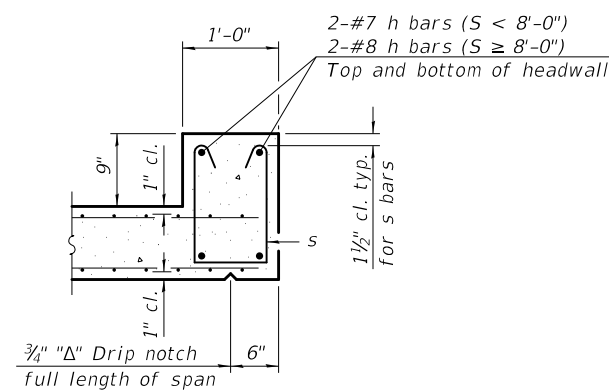
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



**SECTION E-E**



**SECTION F-F**

(Sheet 2 of 2)

**STONE RIPRAP, CLASS A1**  
( IF REQUIRED )

\*\* STONE RIPRAP, CLASS A1 SHALL BE USED TO ADDRESS UNSTABLE SOIL CONDITIONS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1.

THE EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH STONE RIPRAP, CLASS A1.

**POROUS GRANULAR EMBANKMENT DETAIL**

**S.N. 057-2040**

EXCAVATION DEPTHS	H : V
5'-0" < EXCAVATION DEPTH <= 8'-0"	3/4' : 1'
8'-0" < EXCAVATION DEPTH <= 12'-0"	1' : 1'
12'-0" < EXCAVATION DEPTH <= 20'-0" MUST BE SLOPED FROM EXCAVATION BOTTOM OR SPECIAL DESIGN BY S.E. SEE ARTICLE 522.07 FOR TEMPORARY SOIL RETENTION SYSTEM	1' : 1'

\*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.

**POROUS GRANULAR EMBANKMENT (CONT.)**

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.

**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.

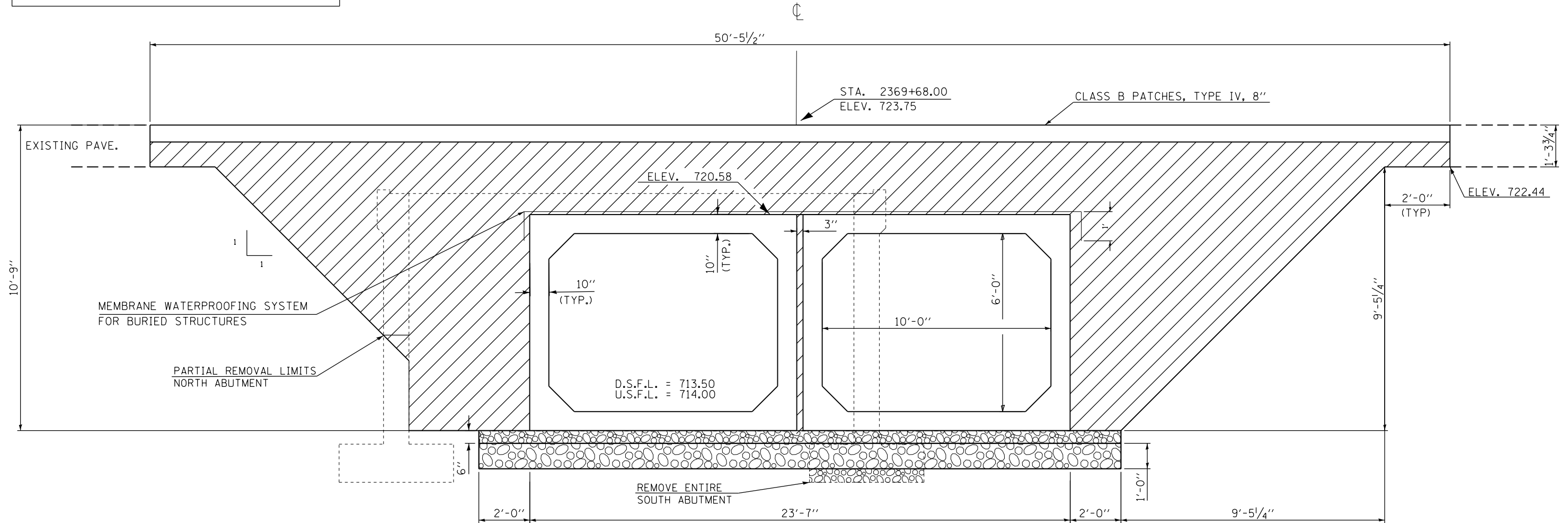
THE COARSE AGGREGATE QUALITY SHALL BE CLASS D OR BETTER AND THE GRADATION SHALL BE CA-6 OR CA-10.

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.

**BILL OF MATERIAL**



Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	798.0
STONE RIPRAP, CLASS A1	TON	380.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	Sq Yd	572.0

LEGEND	
	POROUS GRANULAR EMBANKMENT (CA-6)
	POROUS GRANULAR MATERIAL (CA-7) (6") INCLUDED WITH PRECAST BOX CULVERT
	STONE RIPRAP, CLASS A1



**BILL OF MATERIAL**

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	74.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	Sq Yd	43.0

LEGEND	
	POROUS GRANULAR EMBANKMENT (CA-6)
	POROUS GRANULAR MATERIAL (CA-7) (6") INCLUDED WITH PRECAST BOX CULVERT

**STONE RIPRAP, CLASS A1**  
( IF REQUIRED )

\*\* STONE RIPRAP, CLASS A1 SHALL BE USED TO ADDRESS UNSTABLE SOIL CONDITIONS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1.

THE EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL SHALL NOT BE MEASURED FOR PAYMENT. COST INCLUDED WITH STONE RIPRAP, CLASS A1.

EXCAVATION DEPTHS	H : V
5'-0" < EXCAVATION DEPTH <= 8'-0"	3/4' : 1'
8'-0" < EXCAVATION DEPTH <= 12'-0"	1' : 1'
12'-0" < EXCAVATION DEPTH <= 20'-0" MUST BE SLOPED FROM EXCAVATION BOTTOM OR SPECIAL DESIGN BY S.E. SEE ARTICLE 522.07 FOR TEMPORARY SOIL RETENTION SYSTEM	1' : 1'

\*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.

**POROUS GRANULAR EMBANKMENT**

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

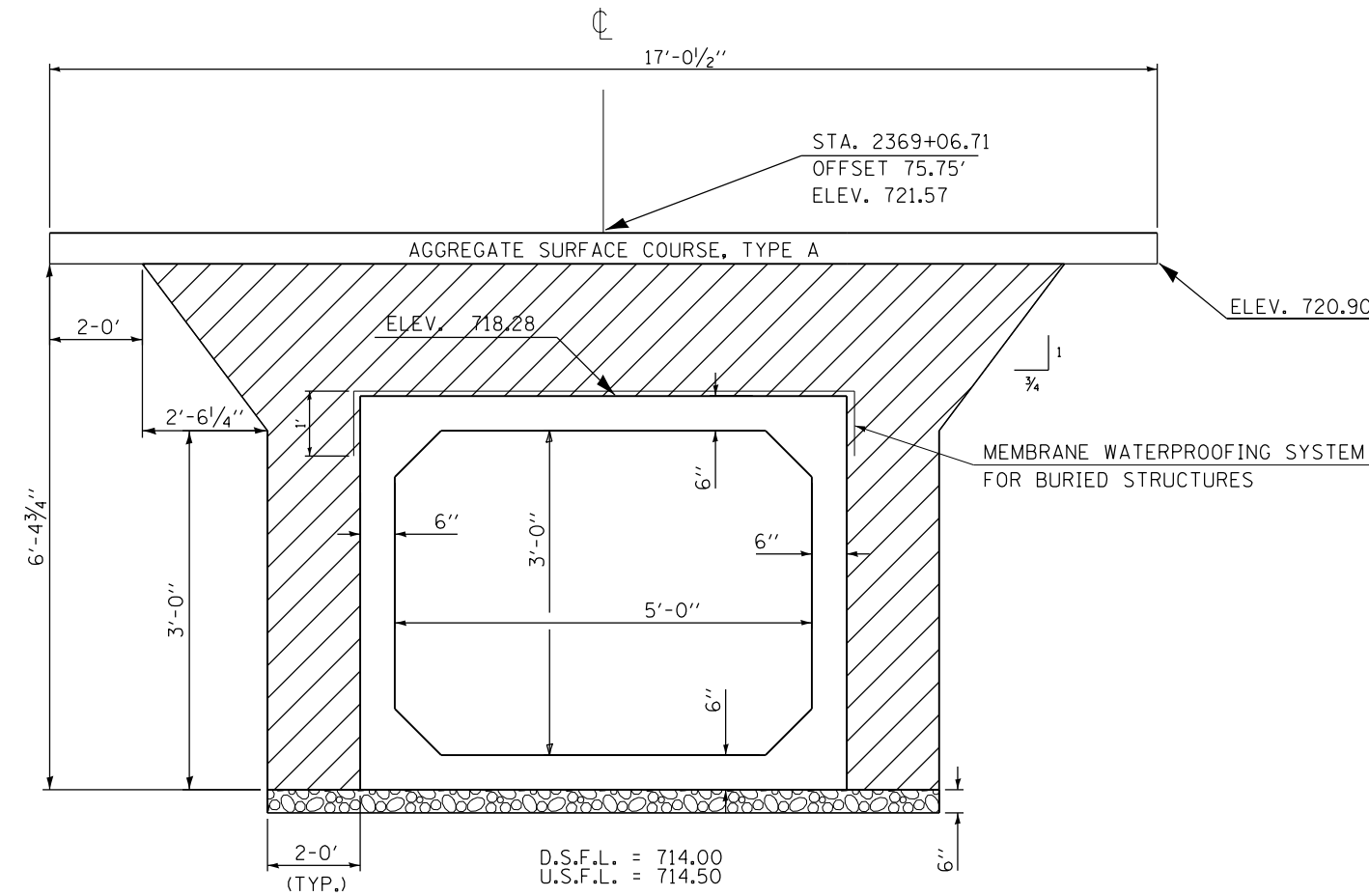
THE WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

THE COARSE AGGREGATE QUALITY SHALL BE CLASS D OR BETTER AND THE GRADTION 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.

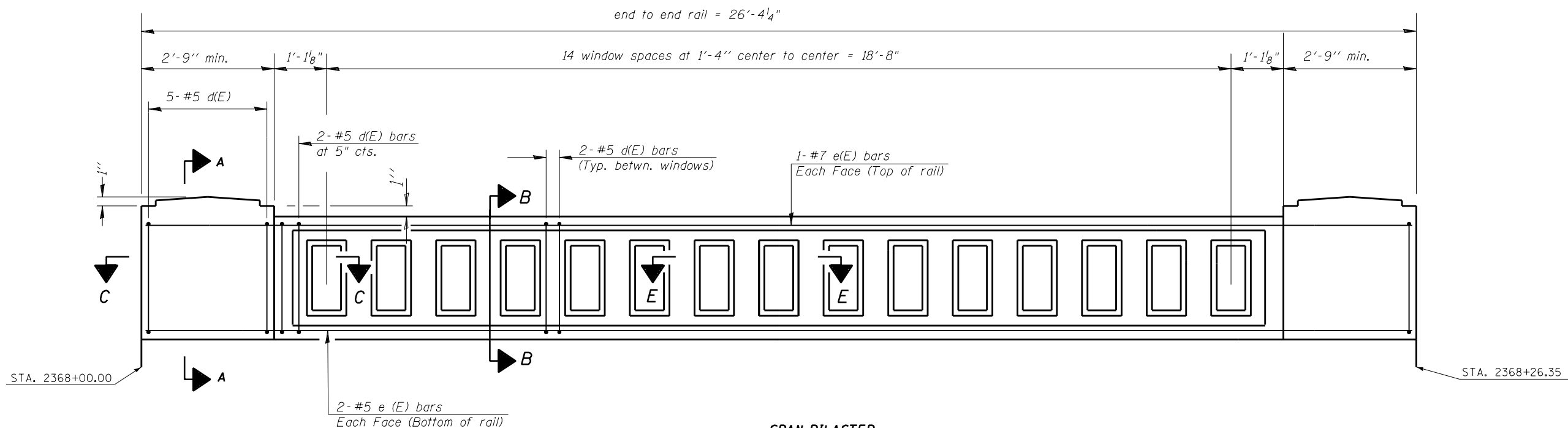


MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES  
SEE GUIDE BRIDGE SPECIAL PROVISIONS NO. 81

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>POROUS GRANULAR EMBANKMENT DETAIL</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 5/9/2018	DATE -	REVISED -			SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

# MULTI-USE PATH FEATURE

## STA. 2368 + 00.00 TO STA. 2368 + 26.35

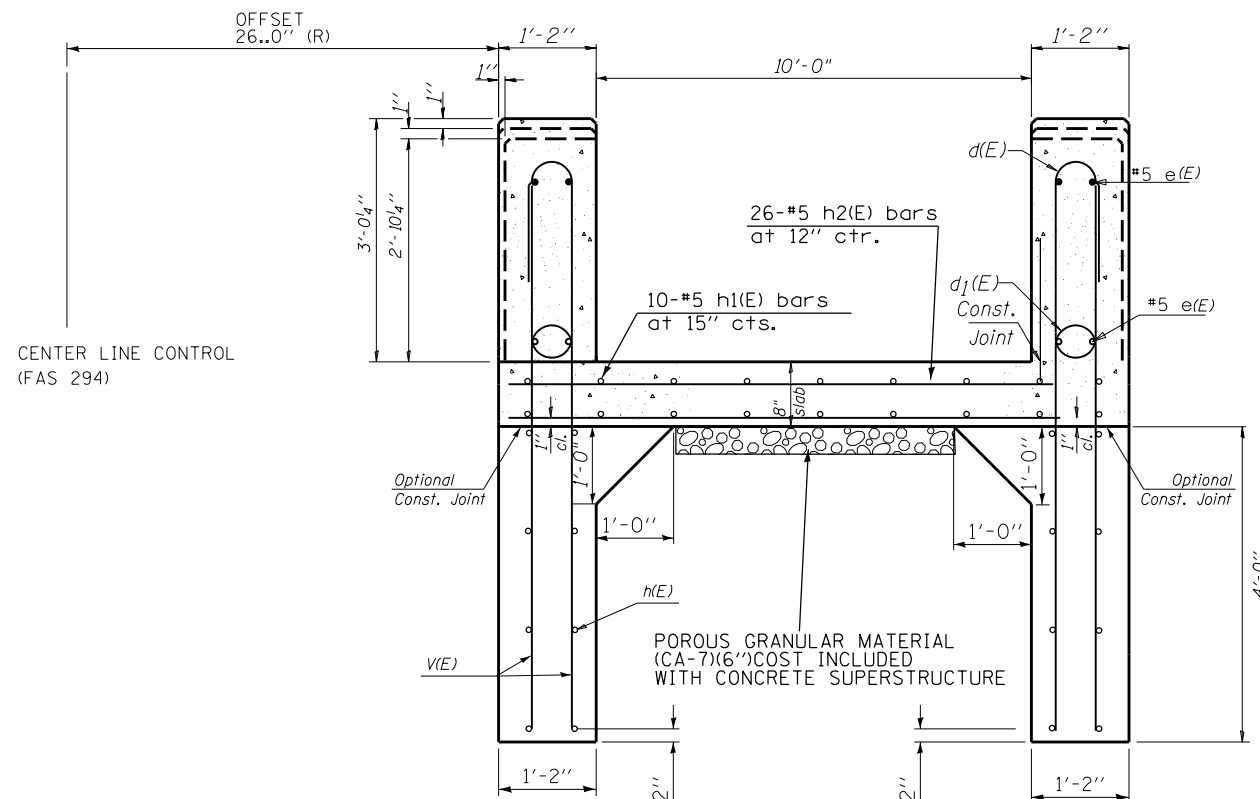


### SUBSTRUCTURE BILL OF MATERIAL (BOTH FOOTINGS)

Bar	No.	Size	Length	Shape
h(E)	16	#5	26'-2"	—
V(E)	104	#5	4'-4"	—
Reinforcement Bars, Epoxy Coated			Pound	910.0
Concrete structure			Cu. Yds.	10.0

(Both footings)

### SPAN PILASTER INSIDE ELEVATION OF RAIL

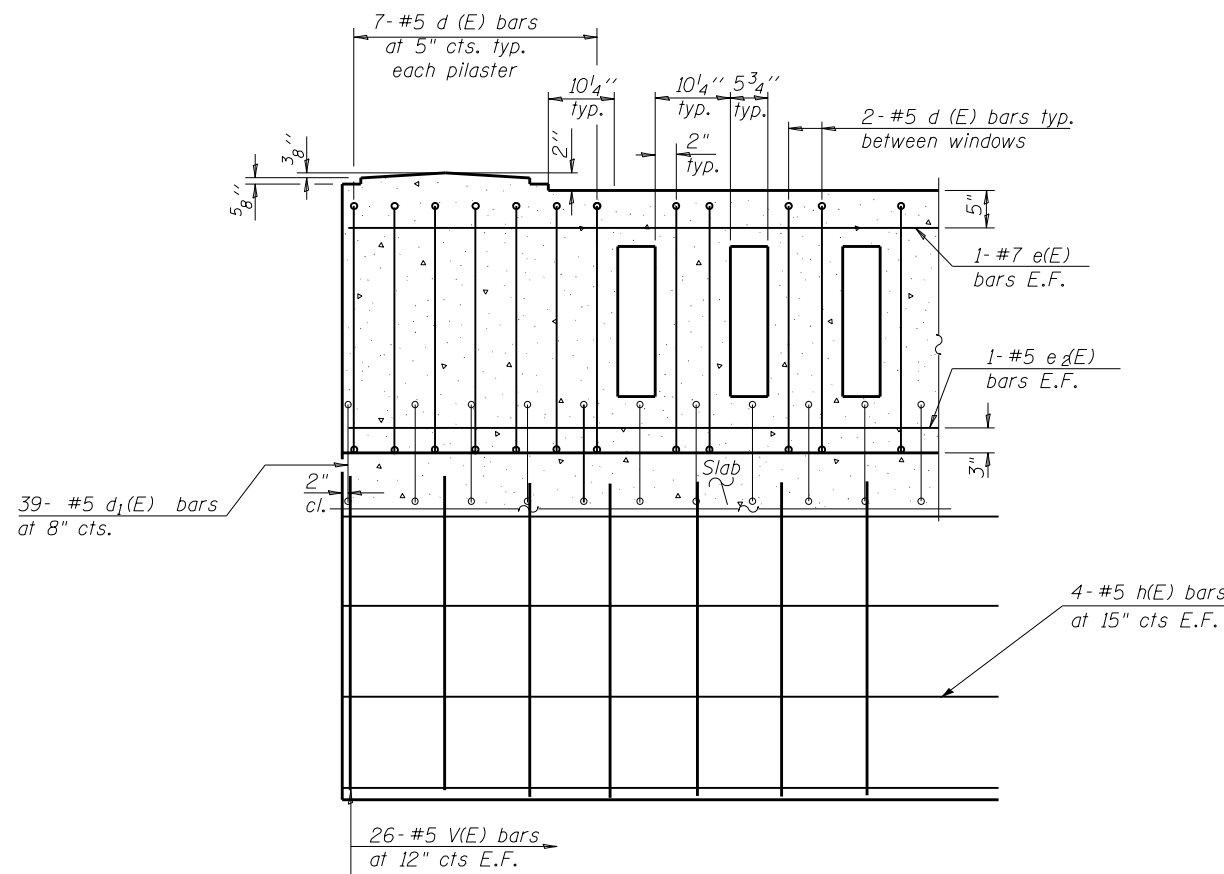


### SECTION A-A THRU POST

(Sheet 1 of 2)

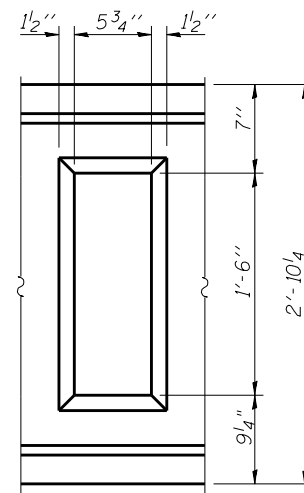
### CONCRETE SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	10	#5	26'-2"	—
h2(E)	26	#5	12'-0"	—
Reinforcement Bars, Epoxy Coated			Pound	598.0
Concrete Superstructure			Cu. Yds.	8.0

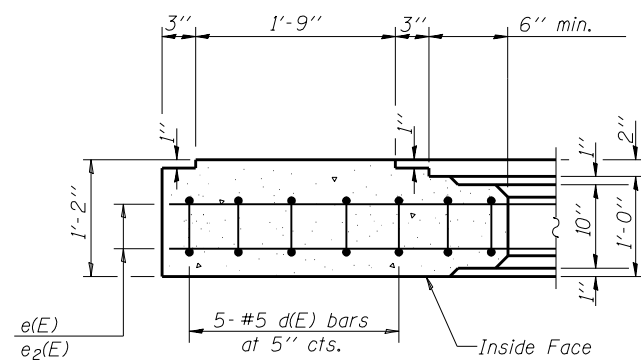


**TYPICAL REINFORCEMENT PLACEMENT**

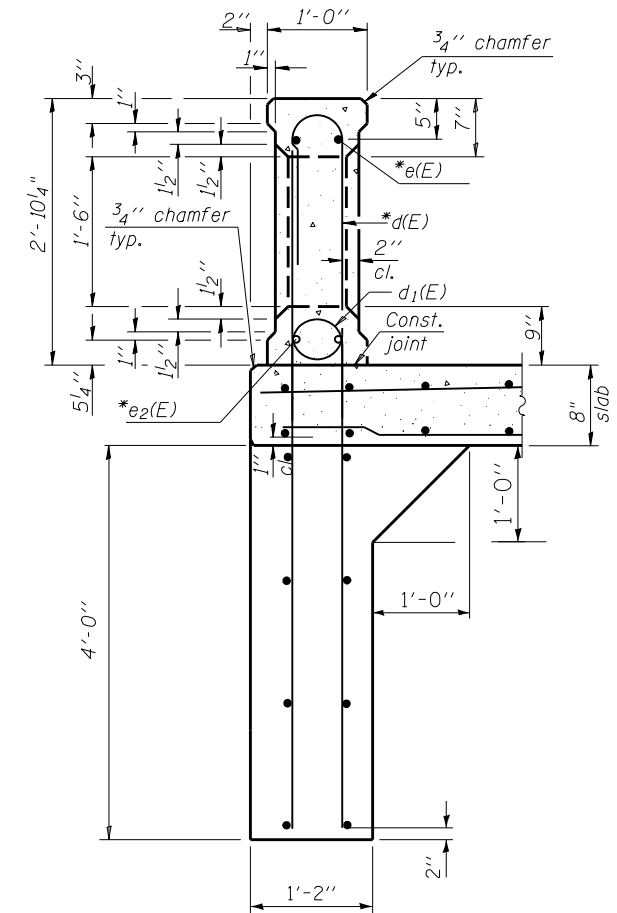
(Inside Face)



**WINDOW DETAIL**



**SECTION C-C**



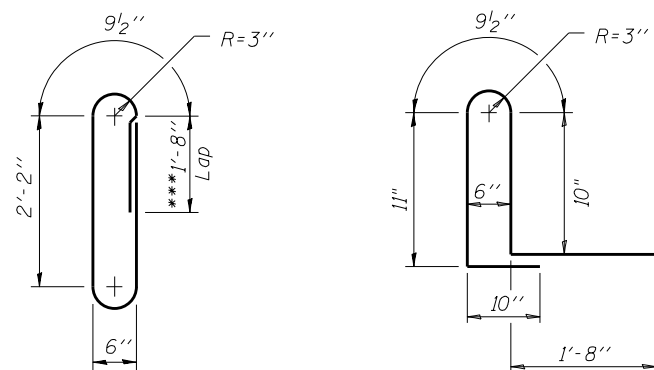
**SECTION B-B THRU WINDOW**

\*Bars e(E), e<sub>2</sub>(E), d<sub>1</sub>(E) and d(E) are included in the cost of Concrete Bridge Railing.

**CONCRETE RAILING BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)				—
a <sub>1</sub> (E)				—
a <sub>2</sub> (E)		#6	6'-6"	—
b(E)		#5		—
b <sub>1</sub> (E)		#6		—
b <sub>2</sub> (E)				—
d(E)	42	#5	7'-7"	U
e(E)	2	#7	26'-2"	—
e <sub>2</sub> (E)	2	#5	26'-2"	—
d <sub>1</sub> (E)	78	#5	5'-1"	L
** Reinforcement Bars, Epoxy Coated		Pound	1074.0	
** Concrete Superstructure		Cu. Yds.	6.0	
Concrete Bridge Railing		Foot	52.7	

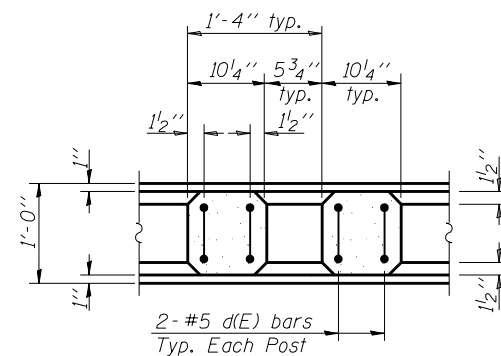
\*\* COST INCLUDED WITH CONCRETE BRIDGE RAILING



**BAR d(E)**

\*\*\* Place lap on back side of railing.

**BAR d<sub>1</sub>(E)**



**SECTION E-E**

Notes:

All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.

All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Railing. Holes and recesses must be formed or cored. Drilling is not permitted.

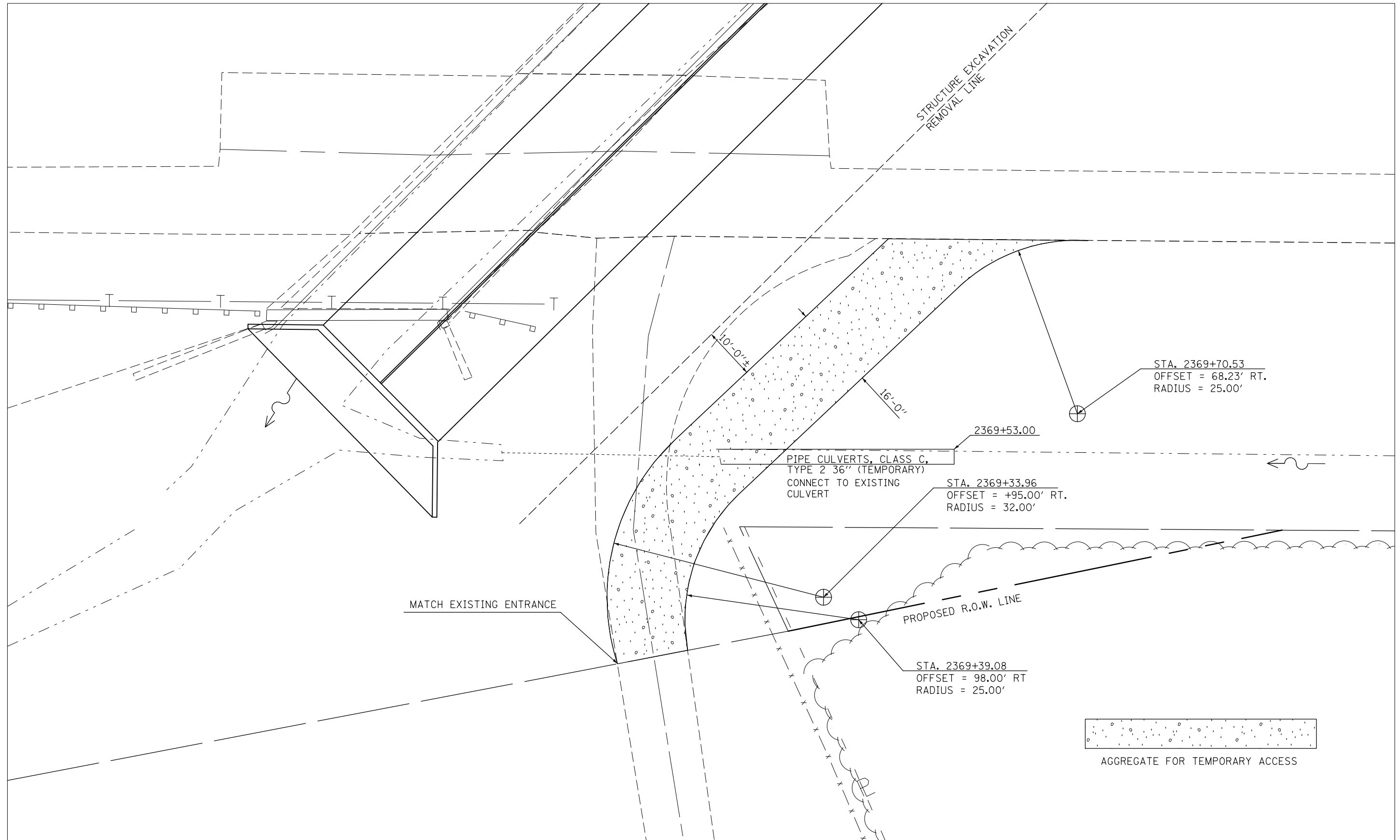
**MIN. BAR LAP**

#5 bars = 3'-1"  
#7 bars = 5'-10"

(Sheet 2 of 2)



# TEMPORARY PRIVATE ENTRANCE DETAIL

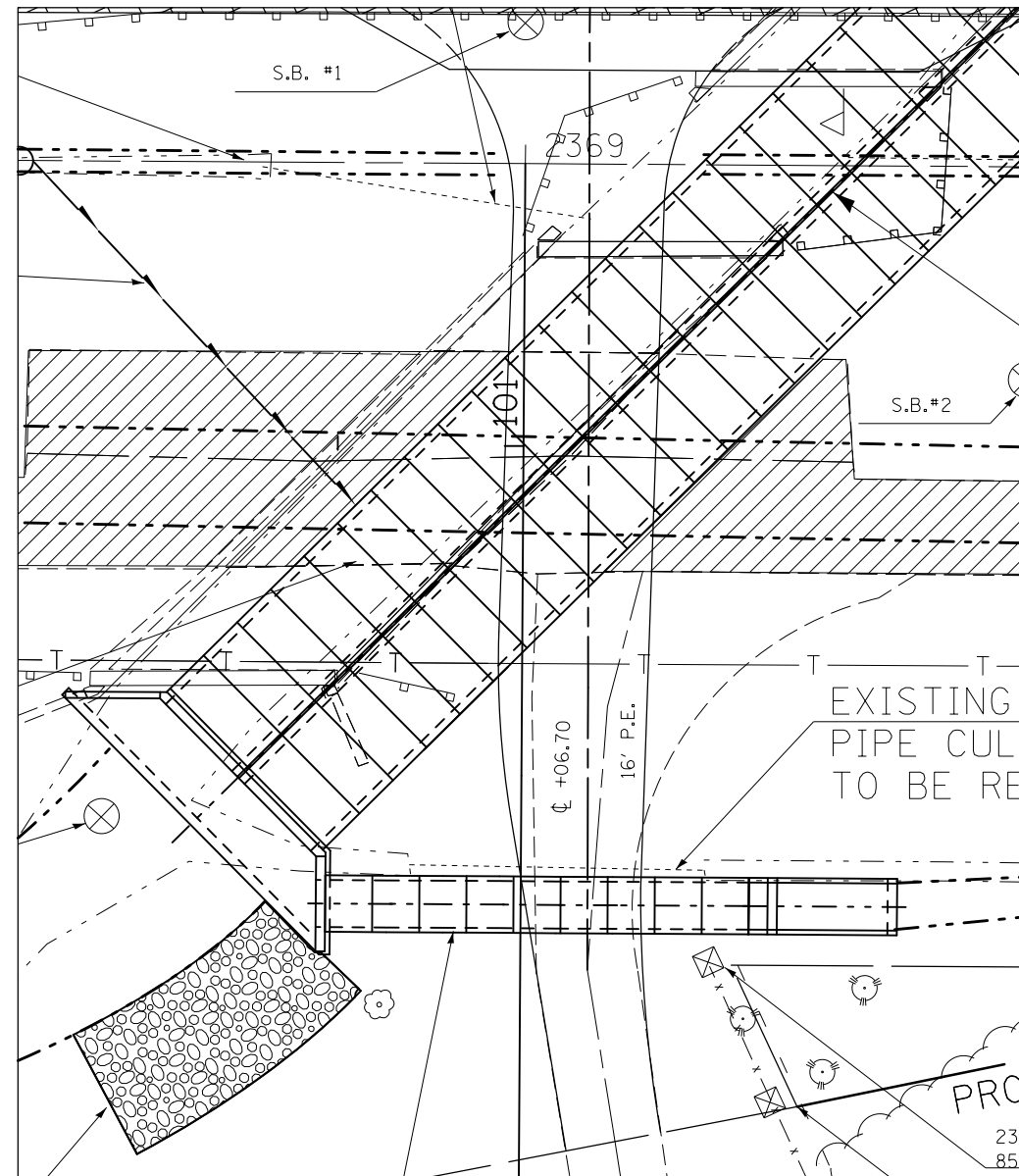


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	PLOT DATE = 3/21/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

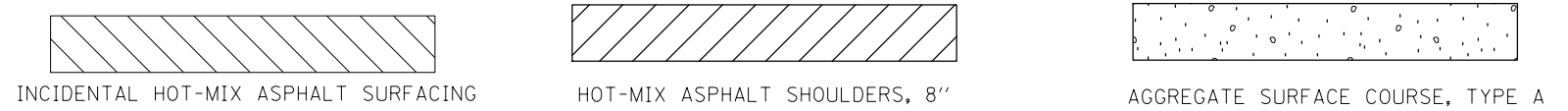
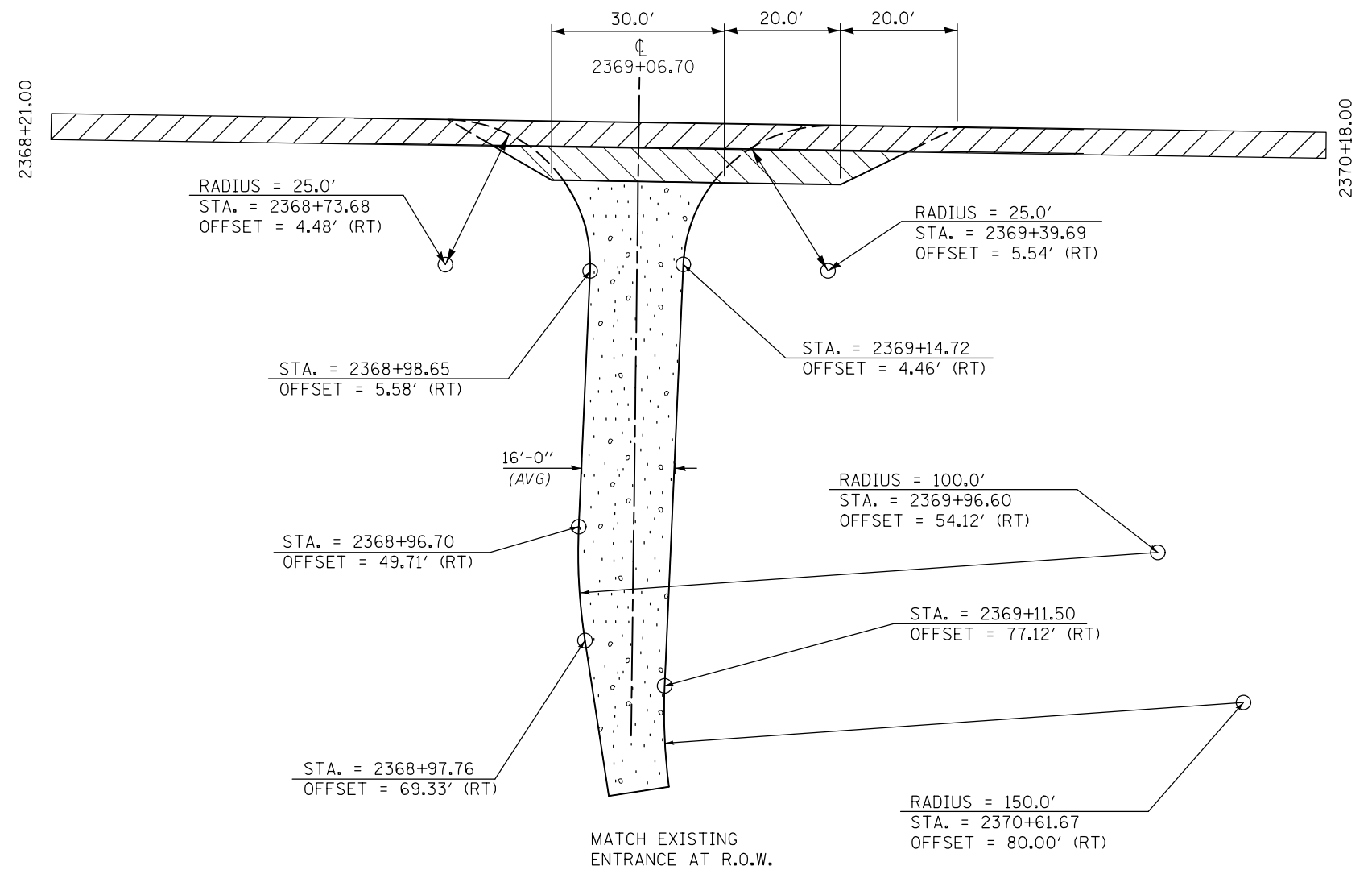
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

# DETAIL OF PRIVATE ENTRANCE

PLAN VIEW  
SEE DETAIL (A)



DETAIL (A)



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
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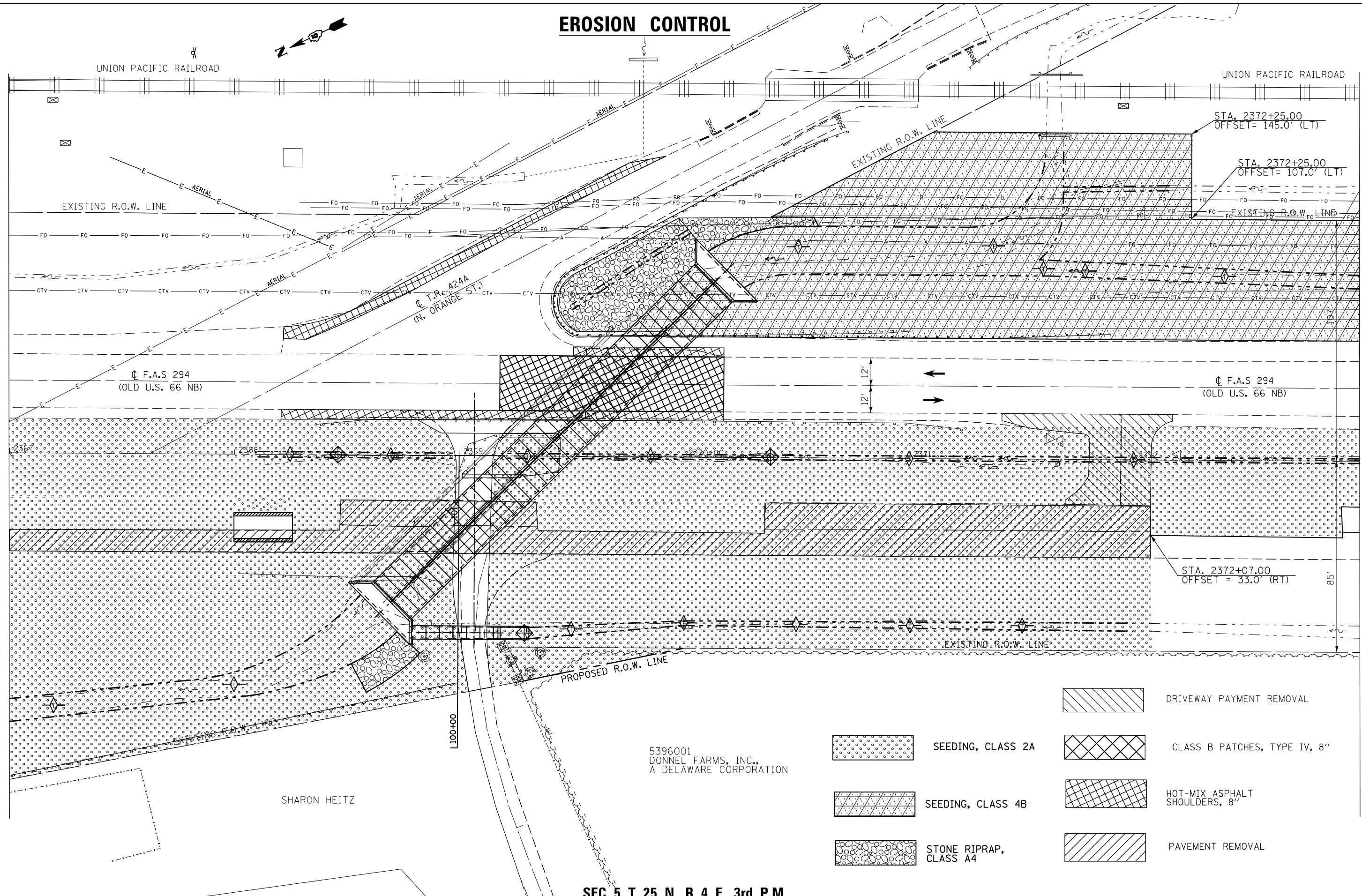
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRIVATE ENTRANCE DETAIL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	34
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL



5396001  
DONNEL FARMS, INC.,  
A DELAWARE CORPORATION

SHARON HEITZ

- SEEDING, CLASS 2A
- CLASS B PATCHES, TYPE IV, 8"
- SEEDING, CLASS 4B
- HOT-MIX ASPHALT SHOULDERS, 8"
- STONE RIPRAP, CLASS A4
- PAVEMENT REMOVAL
- DRIVEWAY PAYMENT REMOVAL

**SEC. 5, T. 25 N., R. 4 E., 3rd P.M.**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

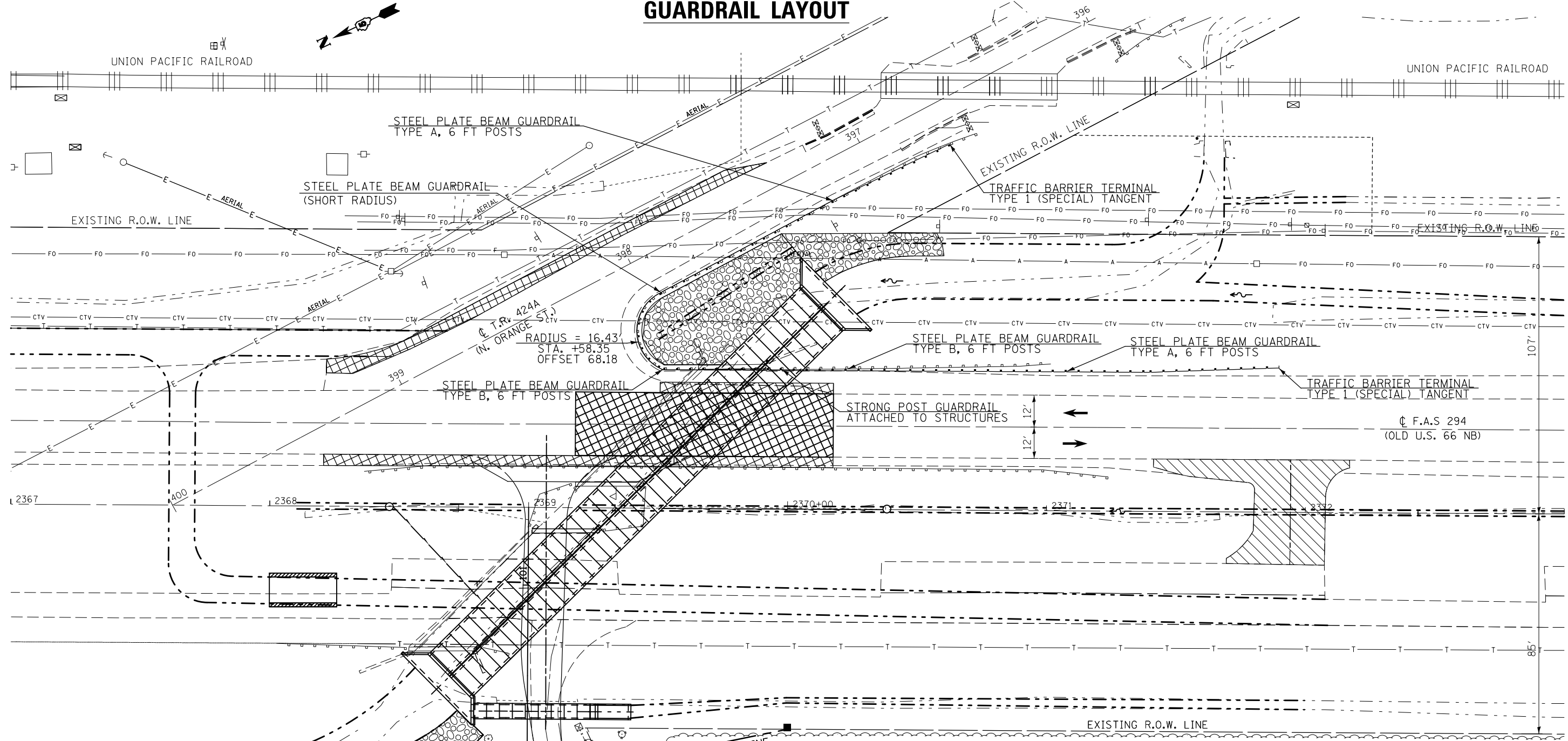
**EROSION CONTROL**

FILE NAME =	USER NAME = BakerCR	DESIGNED - GAE	REVISED -
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\050524\Drawings\Design\0570533-shr- Erosion		DRAWN	CREVISED
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISIED -	REVISIED -
PLOT DATE = 3/21/2018	DATE - 11/09/09	REVISIED -	REVISIED -

SCALE: 1"=20'-0" SHEET NO. 1 OF 1 SHEETS STA. 2367+00.00 TO STA. 2373+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	35
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

# GUARDRAIL LAYOUT



GUARDRAIL SCHEDULE							6300001	6300007	6300030	63100167	72501000	78200005	X6330725
							STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS (FOOT)	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FT POSTS (FOOT)	STRONG POST GUARDRAIL, ATTACHED TO STRUCTURES (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	TERMINAL MARKER, DIRECT APPLIED (EACH)	GUARDRAIL REFLECTORS TYPE A (EACH)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) (FOOT)
LOCATION		OFFSET	STATION	TO	OFFSET	STATION							
S.N. 057-2040	LT	141.36	2370+61.00		119.26	2370+16.00			1.0	1.0			
	LT	119.26	2370+16.00		94.75	2369+50.00	75.0				2.0		
	LT	82.91	2369+50.00		53.46	2369+52.00						37.5	
	LT	53.46	2369+52.00		53.46	2369+77.00	0.0	25					
	LT	53.46	2369+77.00		53.46	2370+02.00		25.0					
	LT	53.46	2370+02.00		53.46	2370+39.50		37.5					
	LT	53.46	2370+39.50		53.46	2371+39.50	100.0				2.0		
	LT	53.46	2371+39.50		53.46	2371+89.50			1.0	1.0			
TOTAL =							175.0	62.5	25.0	2.0	2.0	4.0	37.5





Illinois Department  
of Transportation  
Division of Highways  
State of Illinois

# SOIL BORING LOG

Page 1 of 1

Proposed Culvert on Old Rt. 66 just North/North  
East of Lexington at N. Orange Street - Proposed  
Structure 057-2040

Date 5/25/16

ROUTE F.A.S. 294 (Old Rt. 66) DESCRIPTION \_\_\_\_\_ LOGGED BY CNA

SECTION 14 BR & DM LOCATION NW, SEC. 5, TWP. 25N, RNG. 4E, 3rd PM, GPS: 40.65921, -88.77459

COUNTY McLean DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 057-0037E & 0038E  
Station 2369+55 / 2368+91  
BORING NO. 3 NW Side  
Station 2368+55  
Offset 70.00ft Rt.  
Ground Surface Elev. 723.6 ft

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)
Surface Water Elev.			
Stream Bed Elev.			
Groundwater Elev.:			
First Encounter			
Upon Completion			
After _____ Hrs.			

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)	DESCRIPTION
723.6				Brown CLAY LOAM to LOAM (Embankment)
717.60	3			
	4			
	4			
				Gray SILT & Coarse SAND - Mixed (continued)
				701.60
				Gray Very Coarse Dense SAND AND GRAVEL
				9
				16
				20
				698.60 -25
				End of Boring
717.60	2			Gray Brown Mottled CLAY LOAM (Embankment)
	4	1.0	28	
	4	B		
				1
	2	0.5	25	
	3	B		
713.60 -10				-30
				Black Mottled CLAY LOAM
	1			
	2	1.0	29	
	3	B		
				2
709.60	5			Brown Poorly Sorted Coarse SAND
	5			
				-35
707.60				Gray SILT & Coarse SAND - Mixed
	3			
	6			
	7			
				2
	7			
	10			
				-40

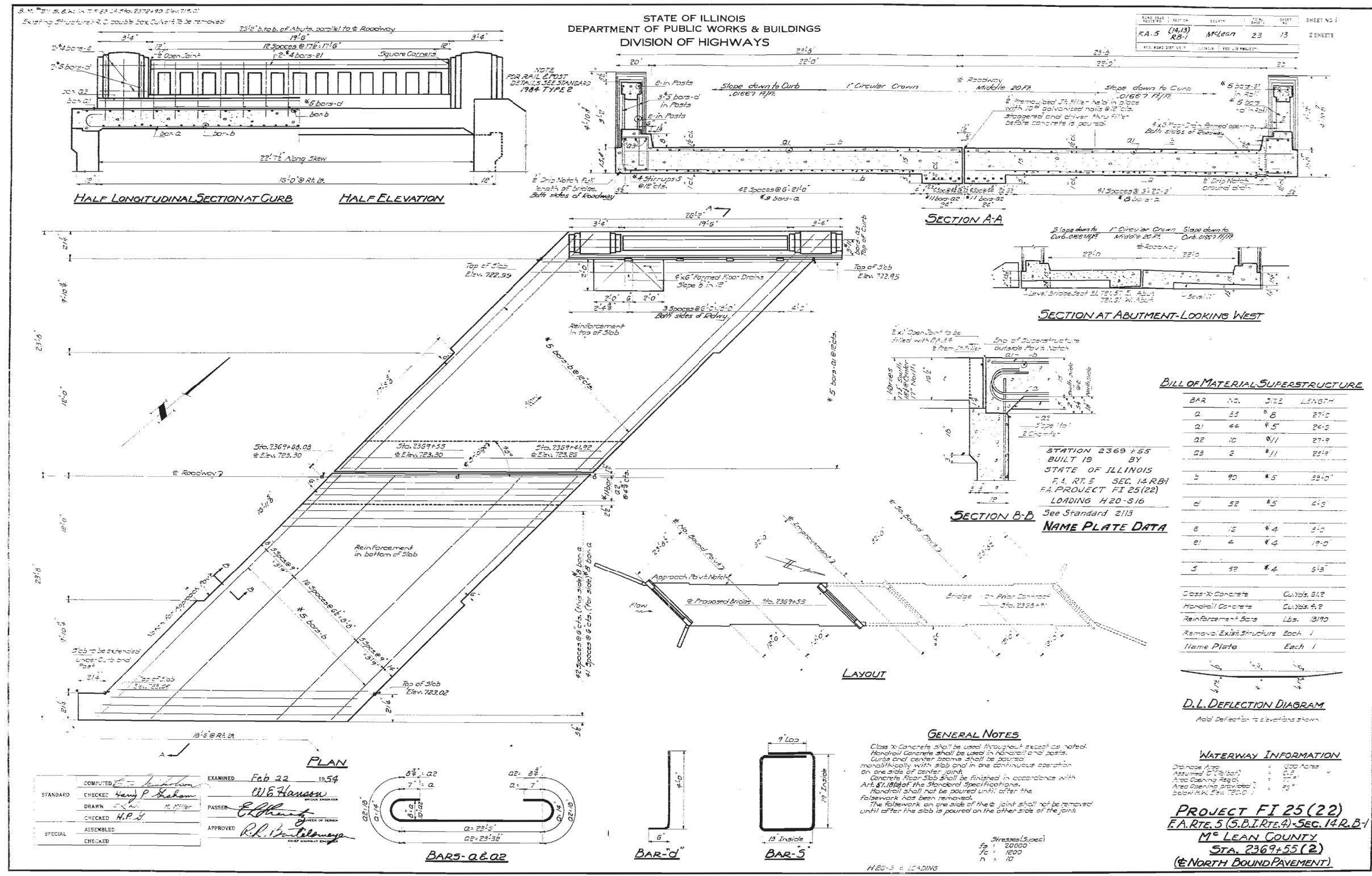
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



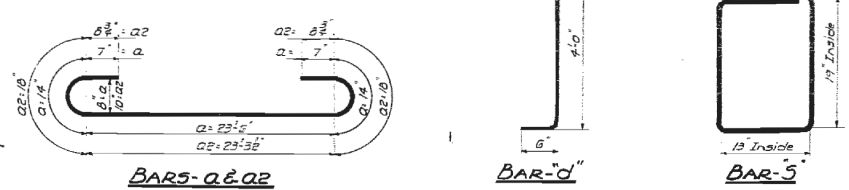




# AS-BUILT PLANS FOR INFORMATION ONLY



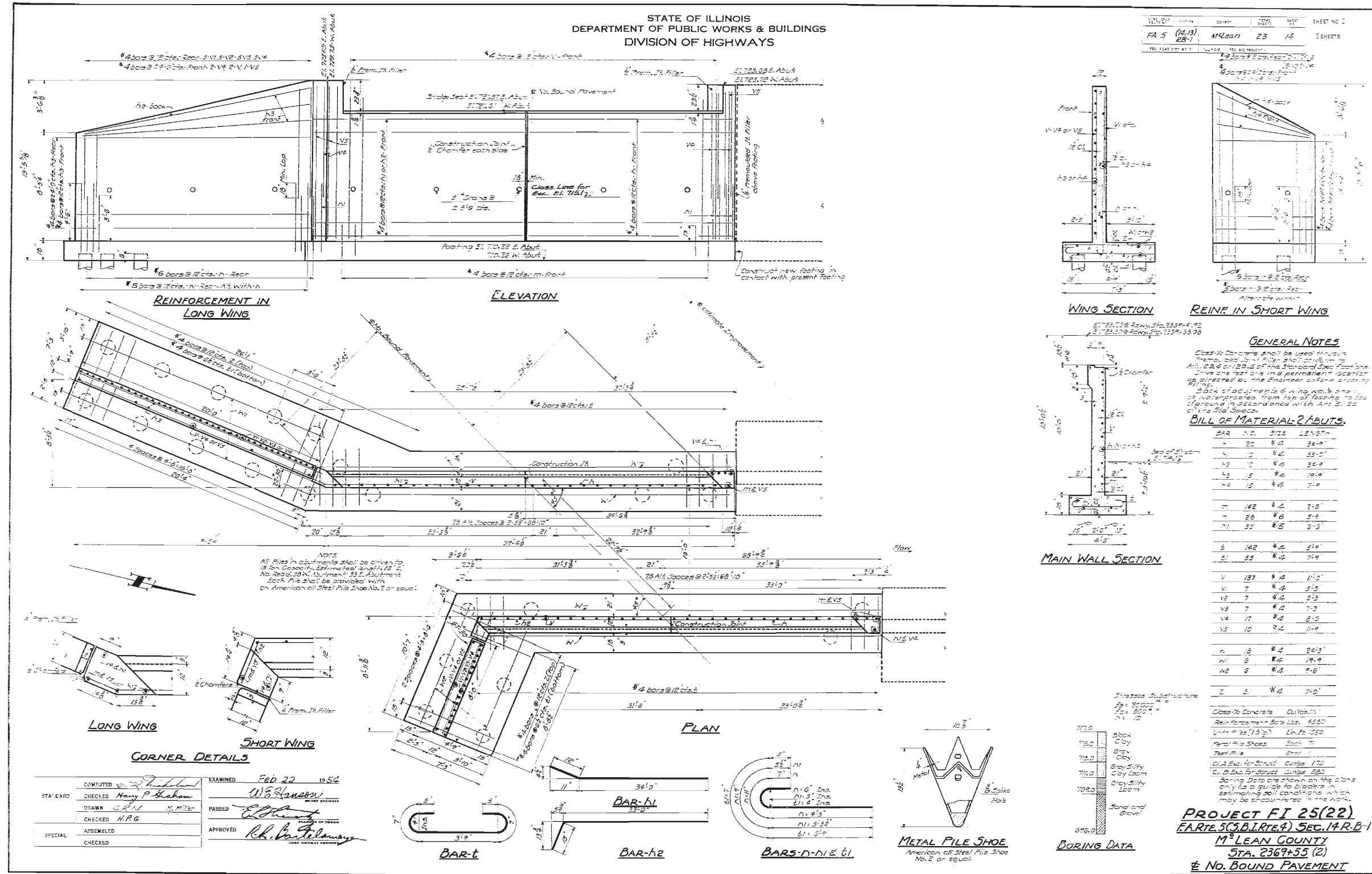
COMPUTED	EXAMINED	Feb 22 1954
CHECKED	W.E. Hansen	
DRAWN	PASSED	
CHECKED	APPROVED	
SPECIAL	CHECKED	



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PLOT SCALE = 40.0000 "/> <td>DRAWN -</td> <td>REVISED -</td> <td>294</td> <td>14 BR &amp; DM</td> <td>MCLEAN</td> <td>87</td> <td>41</td>	DRAWN -	REVISED -					294	14 BR & DM	MCLEAN	87	41
PLOT DATE = 3/21/2018	CHECKED -	REVISED -	SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 70533				
	DATE -	REVISED -									

# AS-BUILT PLANS FOR INFORMATION ONLY



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 OFFICE: ILLINOIS  
 DATE: 3/21/2018

USER NAME = BakerCR PLOT SCALE = 40.0000 "/in. PLOT DATE = 3/21/2018	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILTS EXISTING S.N. 057-0037 & 0038	SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.	F.A.S. RTE. 294 SECTION 14 BR & DM COUNTY MCLEAN TOTAL SHEETS 87 SHEET NO. 42 CONTRACT NO. 70533 ILLINOIS FED. AID PROJECT
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**NOTES:**

RTE. 66 SHALL NOT BE CLOSED UNTIL ALL DETOUR SIGNING IS ERECTED AND APPROVED BY THE ENGINEER.

ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR. COSTS FOR COVERING EXISTING SIGNS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE DETOUR SIGNING SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS PER ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

ALL TYPE III BARRICADES SHALL BE IN ACCORDANCE WITH STD 701901 AND SHALL BE EQUIPPED WITH TWO (2) APPROPRIATE R11-2 AND R11-3 SIGNS AND FLASHING AMBER LIGHTS.

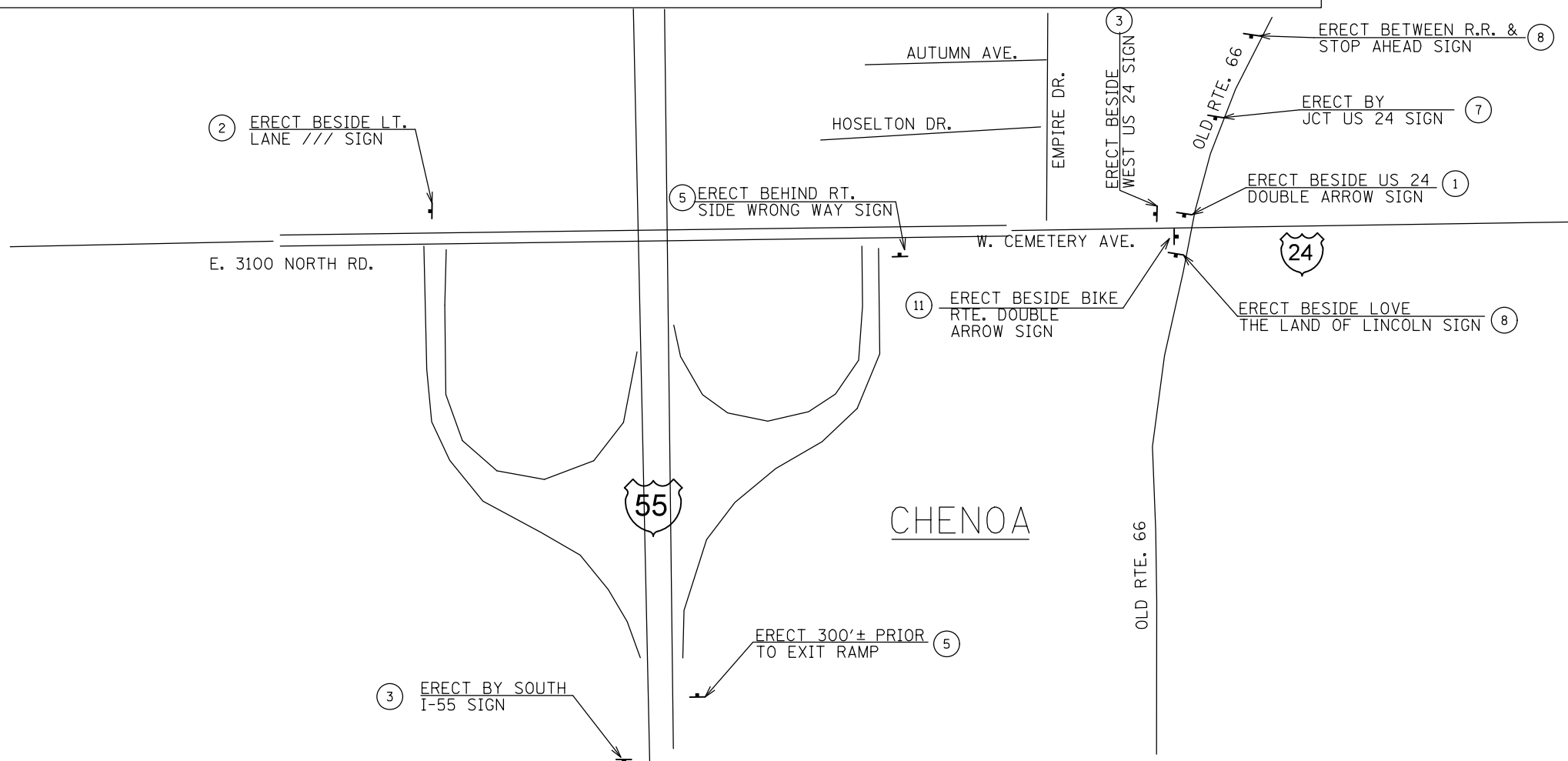
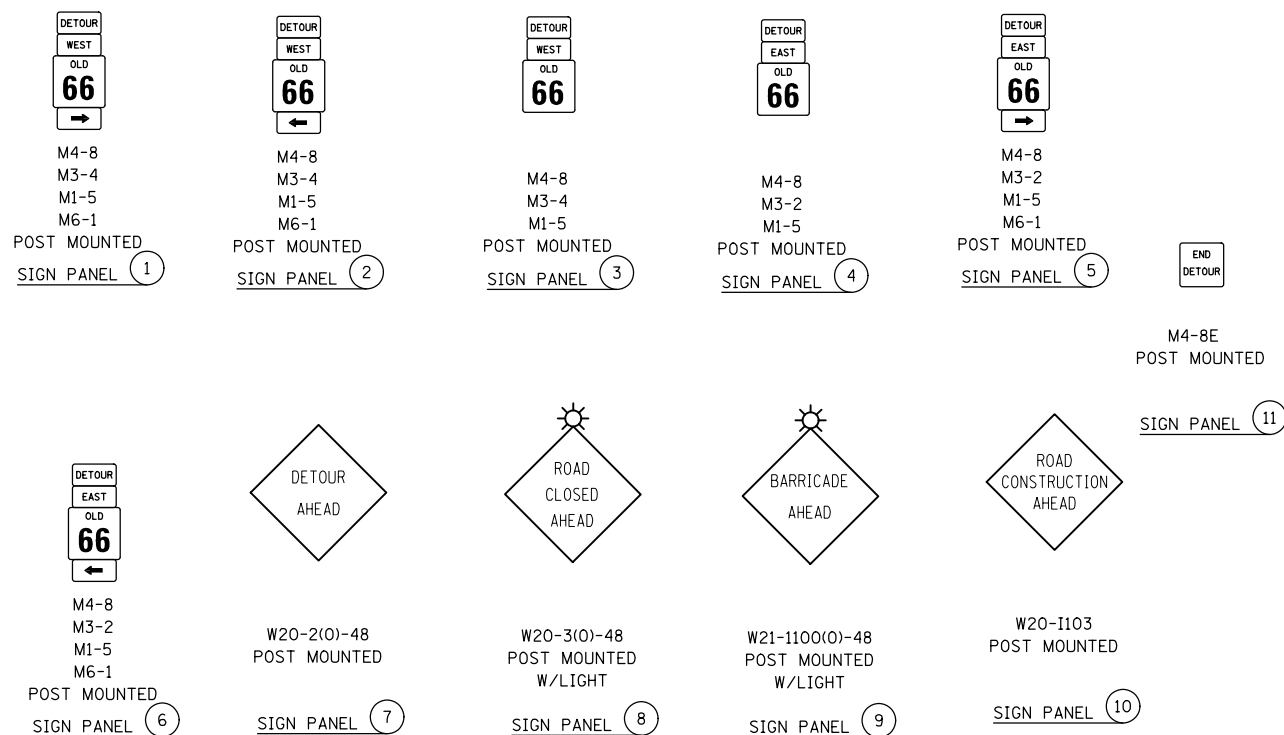
FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE SIGNING OF THE ROAD CLOSURE AS SHOWN ON THIS SHEET. PRIOR TO CLOSING THE ROAD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROAD CLOSURE WITH THE DISTRICT BUREAU OF OPERATIONS.

TRAFFIC CONTROL SHOWN WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR DETOUR SIGNING.

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.

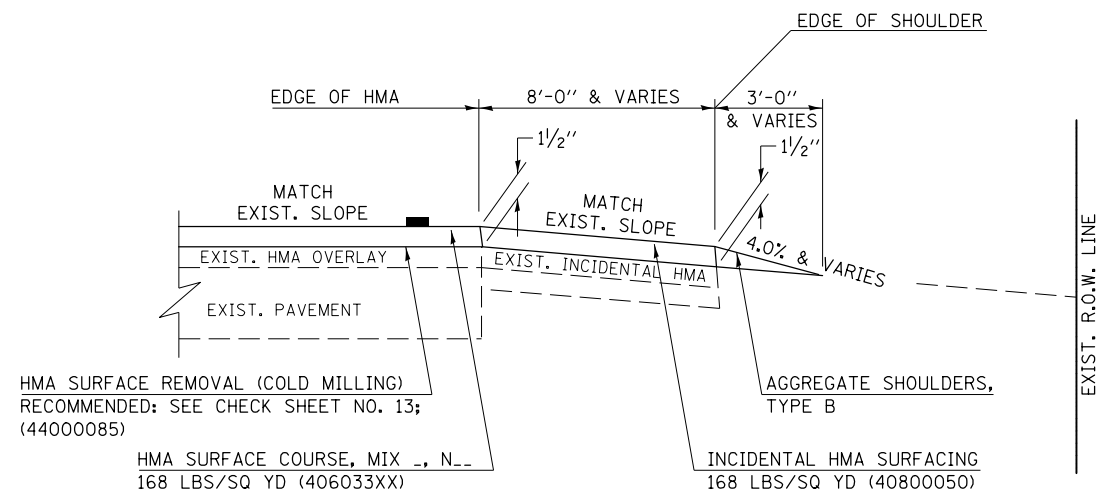
SEE DISTRICT DETAIL 70200000 - TRAFFIC CONTROL & PROTECTION (ROAD & SIDEROAD/STREET CLOSURES) FOR ADDITIONAL INFORMATION.



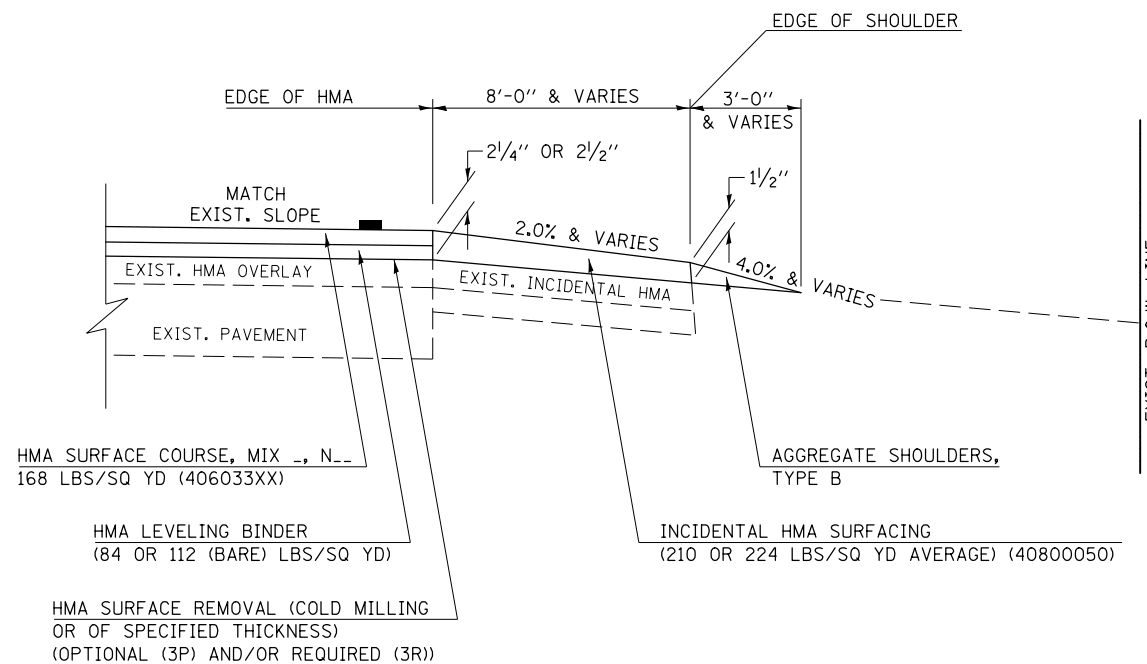
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pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\05052\Drawings\Design\0570533-sh- Detour.dwg	DRAWN	REVISION	REVISION		294	14 BR & DM	MCLEAN	87	44			
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/21/2018	DATE -	REVISED -	SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.			

# PROJECTS WITHOUT RECONSTRUCTION

**S.M.A.R.T. IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.03; 1 1/2")



**"3P" OR "3R" IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.02; 2 1/4" OR 2 1/2" ON BARE CONCRETE)

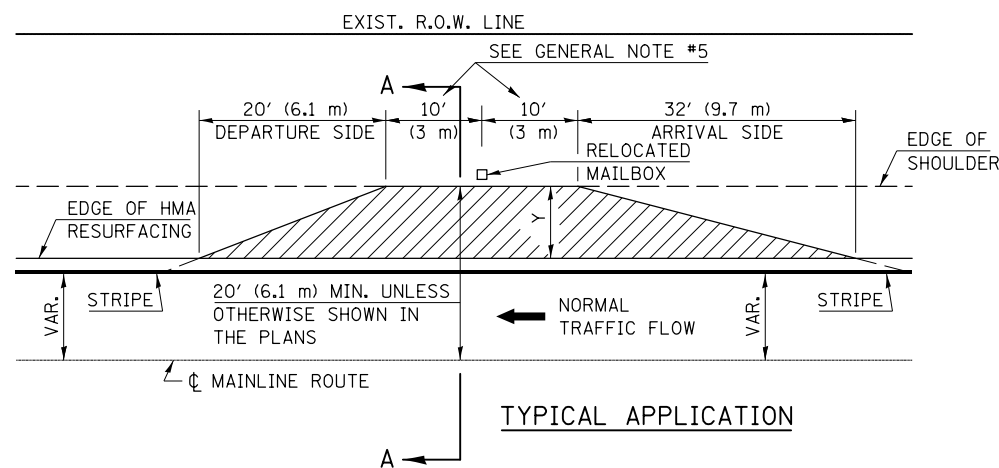


## GENERAL NOTES

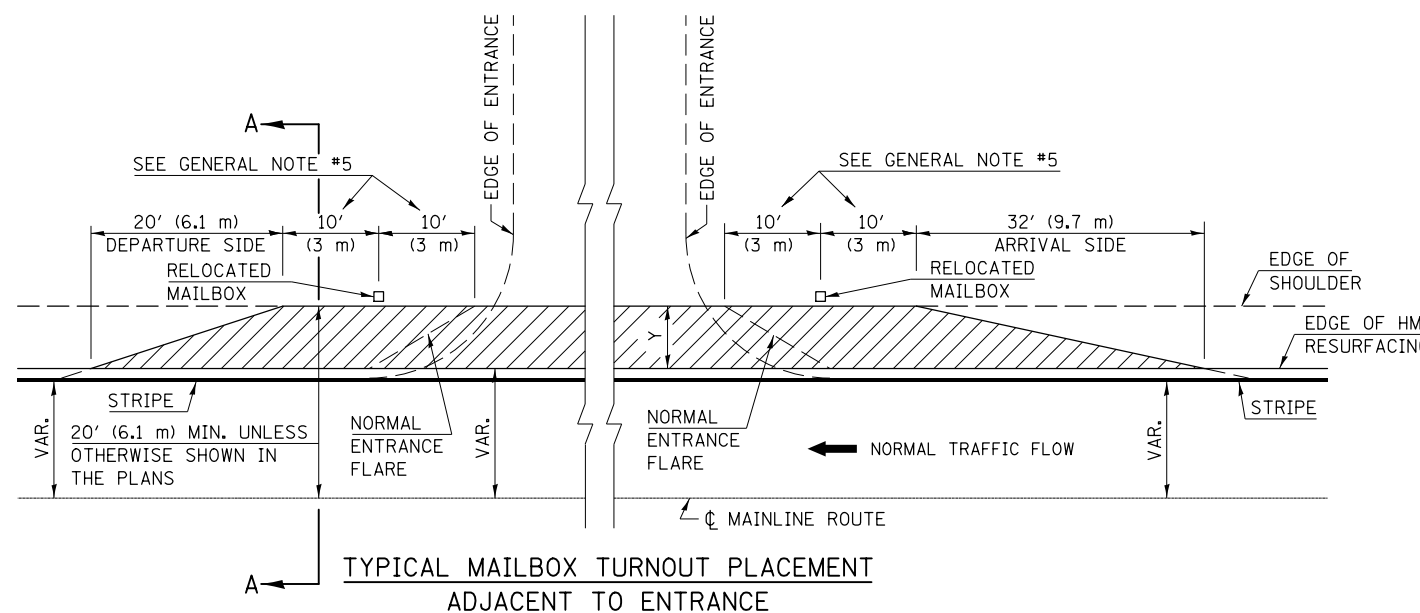
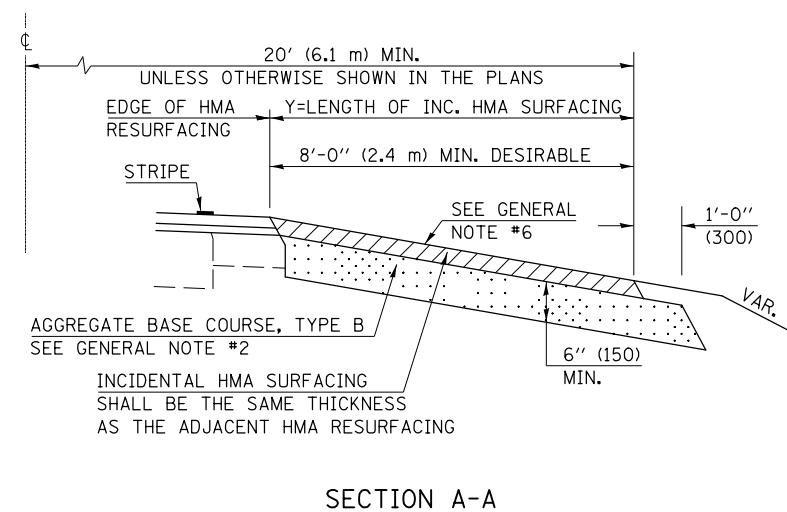
1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED MAILBOX TURNOUTS. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ALL EXISTING MAILBOX TURNOUTS OR TO CONSTRUCT NEW MAILBOX TURNOUTS WHERE NONE NOW EXISTS.
3. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
5. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' (3 m) DIMENSIONS AS SHOWN ABOVE SHALL BE FROM THE END MAILBOX.
6. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER. MINIMUM 4% (1/2"/') DESIRABLE; MAXIMUM 8% (1"/').
7. WHEN MAILBOX TURNOUTS ARE CONSTRUCTED ADJACENT TO FIELD ENTRANCES, THE WIDTH OF THE INCIDENTAL HMA SURFACING CONSTRUCTED FOR THE FIELD ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED MAILBOX TURNOUT SURFACING.
8. THE TOTAL SHOULDER WIDTH, 2.4 m (8') MINIMUM, SHALL BE PAVED BETWEEN SIDEROADS ENTRANCES AND/OR MAILBOX TURNOUTS AT LOCATIONS WHERE THE DISTANCE BETWEEN RADIUS OR TAPER CONTROL POINTS IS LESS THAN 15.0 m (50').
9. MAILBOXES SHALL BE MOUNTED SUCH THAT THE FACE OF THE MAILBOX IS 6" (150 mm) TO 12" (300 mm) AND THE POST A MINIMUM OF 24" (600 mm) FROM THE EDGE OF THE TURNOUT SURFACING.

# PROJECTS WITH RECONSTRUCTION

("3R" IMPROVEMENTS)



WIDTH OF SHOULDER	4'-0" - 8'-0" (1.2 m - 2.4 m)	10'-0" (3.0 m)
WIDTH OF TURNOUT "Y"	8'-0" (2.4 m)	8'-0" - 10'-0" (2.4 m - 3.0 m)



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

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 12/06 TJB
pw:\IL084EBIDINTEG.illinois.gov\PI\DOT Documents\DOT Offices\District 5\Projects\050522\Drawings\Design\0570533-shr-CADD Des		DRAWN -	REVISED - 09/07 KAG
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -	
DATE = 3/21/2018	DATE -	REVISOR -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAILBOX TURNOUT (RURAL)

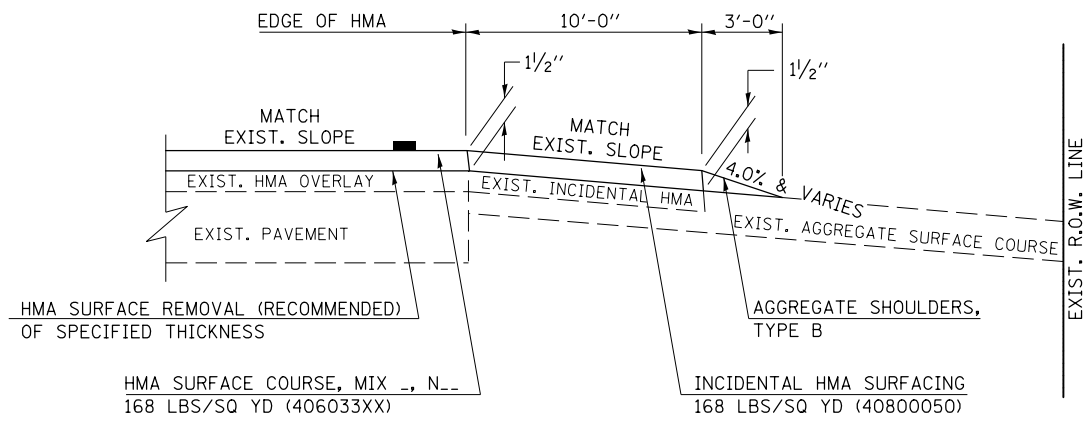
SCALE: SHEET OF SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 4080050B

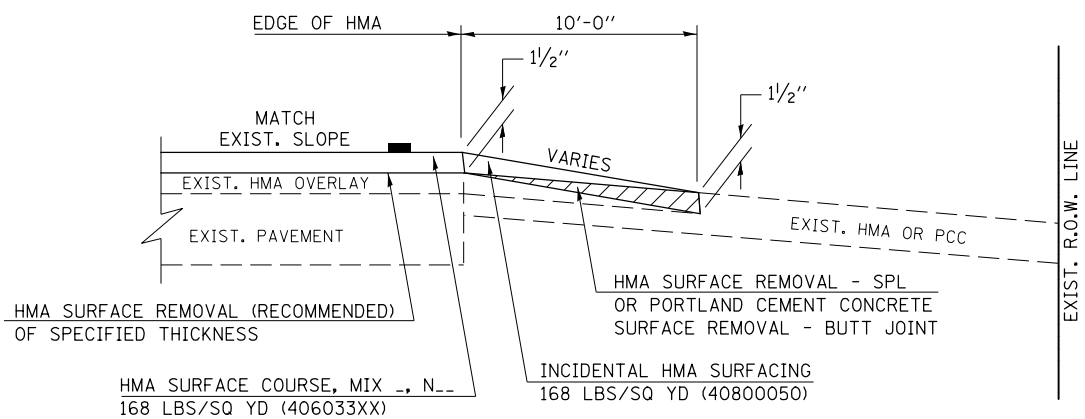
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	45
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

# PROJECTS WITHOUT RECONSTRUCTION

## S.M.A.R.T. IMPROVEMENTS (POLICY RESURFACING; BDE 53-4.03; 1/2")

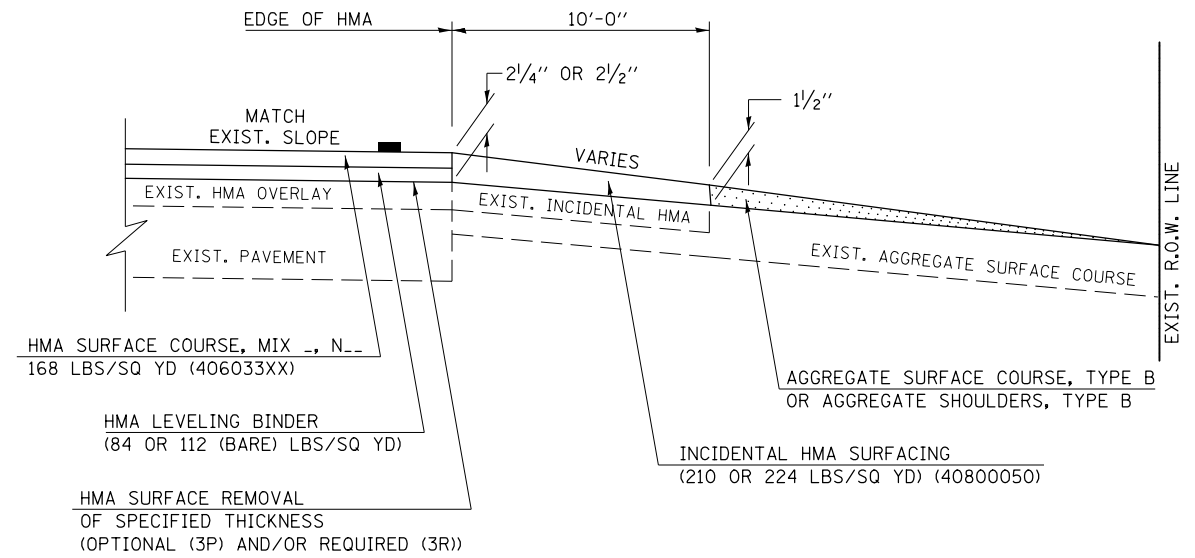


**EXISTING AGGREGATE ENTRANCE**

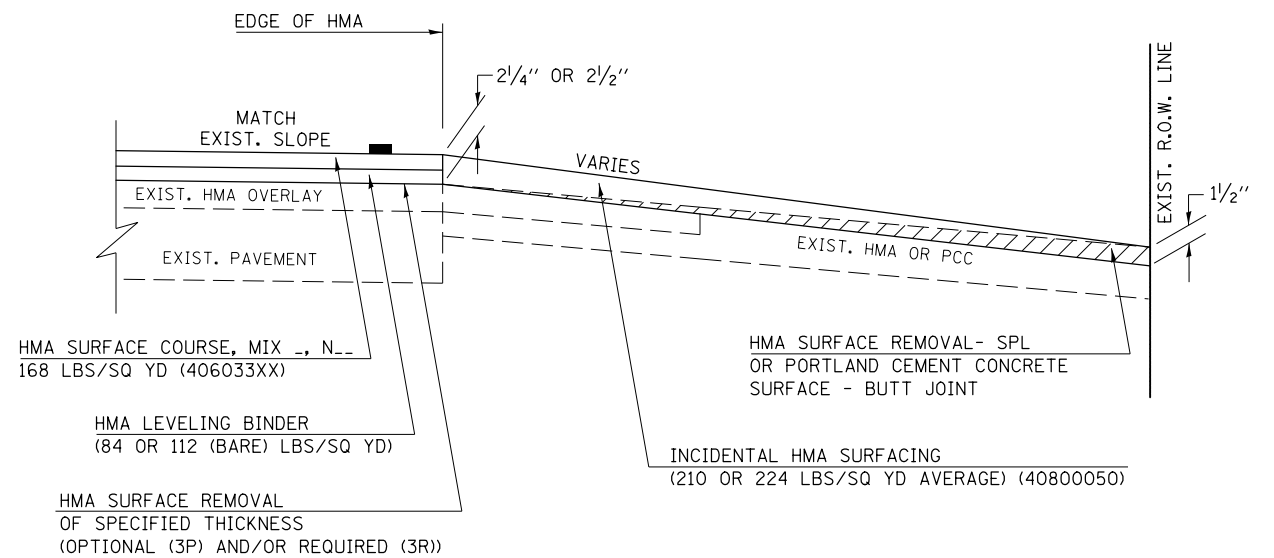


**EXISTING HMA OR PCC ENTRANCE**

## "3P" OR "3R" IMPROVEMENTS (POLICY RESURFACING; BDE 53-4.02; 2 1/4" OR 2 1/2" ON BARE CONCRETE)



**EXISTING AGGREGATE ENTRANCE**



**EXISTING HMA OR PCC ENTRANCE**

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

### DISTRICT 5 DETAIL NO. 4080050C

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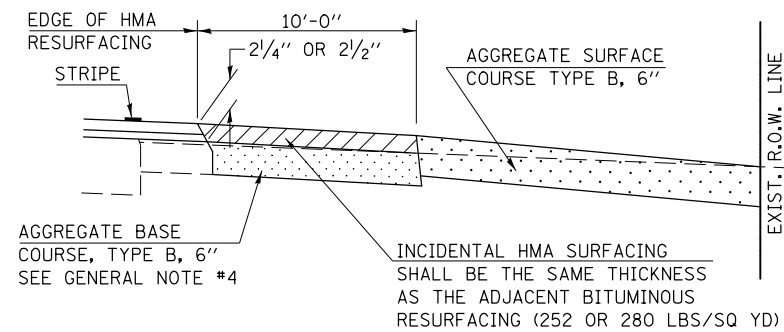
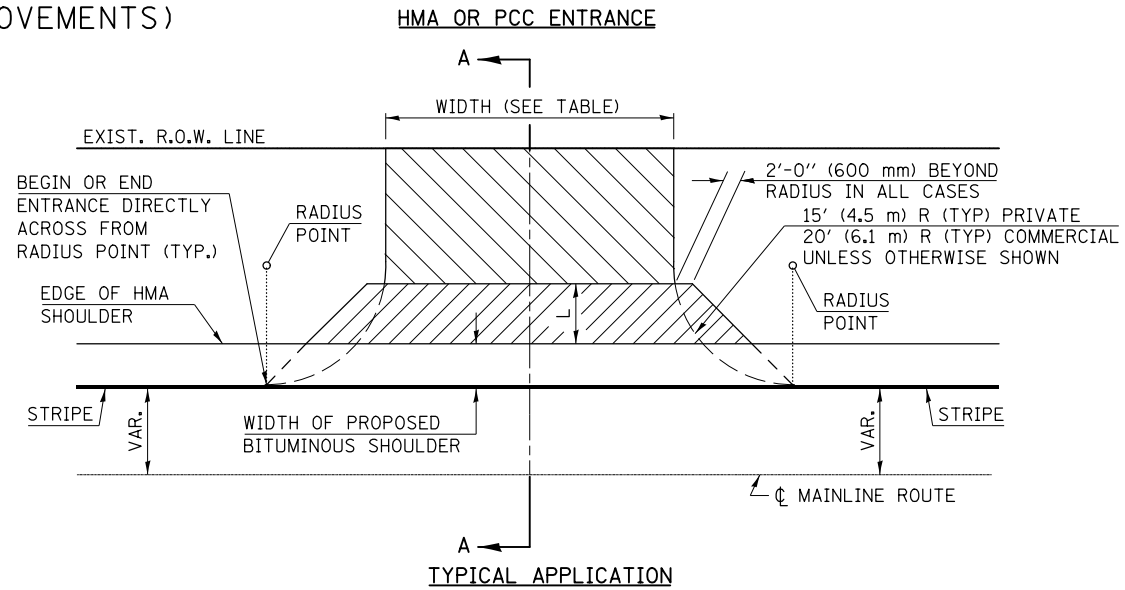
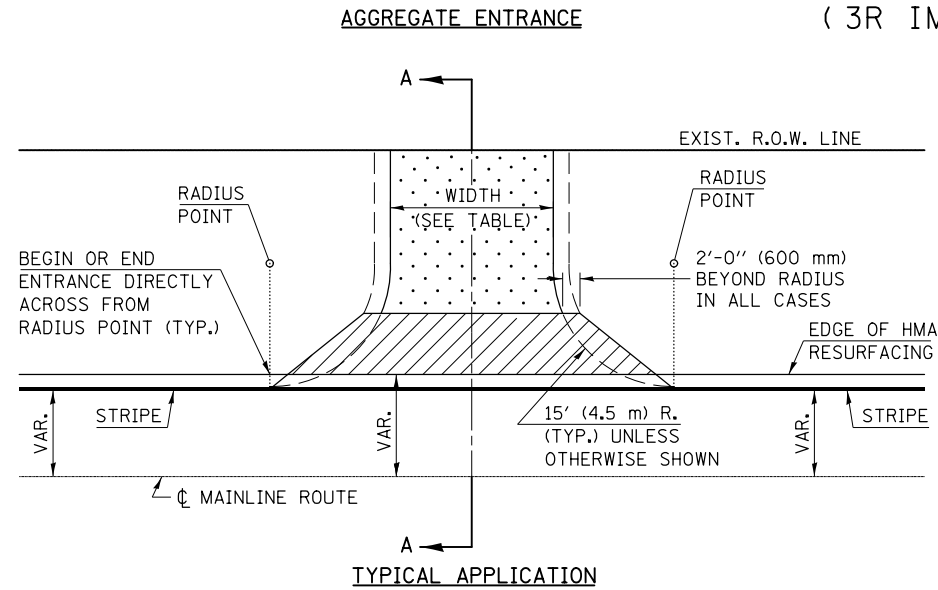
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PRIVATE AND COMMERCIAL ENTRANCES (NONCOMMERCIAL AND COMMERCIAL RURAL)</b>	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

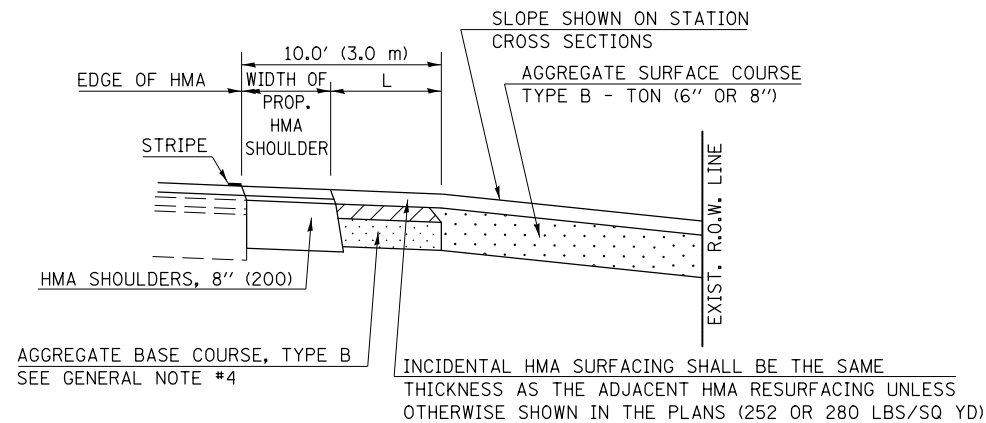
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	46
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

# PROJECTS WITH RECONSTRUCTION

( 3R IMPROVEMENTS )



SECTION A-A



SECTION A-A  
"HMA EXAMPLE"

## 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 MEMO 104/01 DISCUSS THIS PROCEDURE.

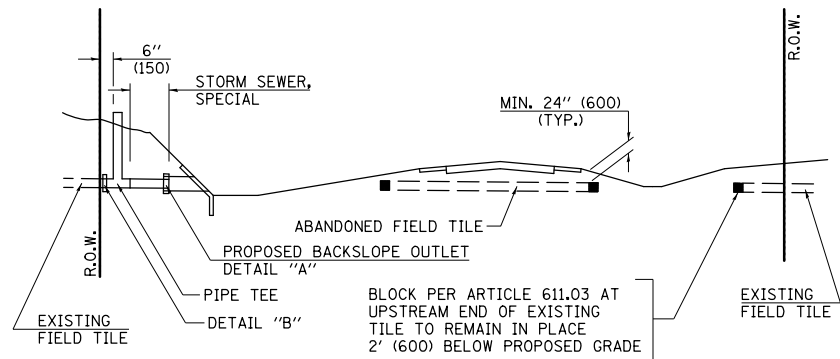
RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)														
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with RECONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM							
	NONCOMMERCIAL						NONCOMMERCIAL							
	PRIVATE & FIELD			FIELD W/ FARM IMPLEMENTS			COMMERCIAL			PRIVATE & FIELD			COMMERCIAL	
	min.	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			1 LANE, 1 WAY		
						2 LANE, 2 WAY			2 LANE, 2 WAY			2 LANE, 2 WAY		
						14	16	24	24	30	35			
RADIUS (FT)	15	25	40	30		20	30	50	resurface existing configuration; existing hma or pcc entrances shall have "butt joints" constructed; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them					
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)	1:10	1:6	1:4	1:6	1:4	1:10	1:6	1:4						
<b>SURFACE TYPE</b>														
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" for "butt joints" and 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. 4080050C

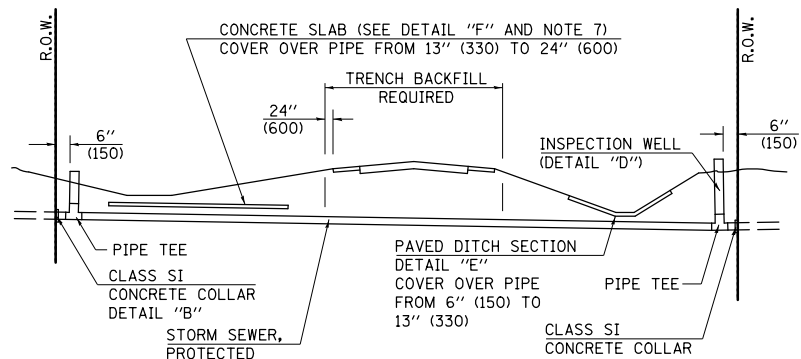
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*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/10 KJT			CONTRACT NO. 70533				
	PLOT DATE = 3/21/2018	DATE -				ILLINOIS FED. AID PROJECT				

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



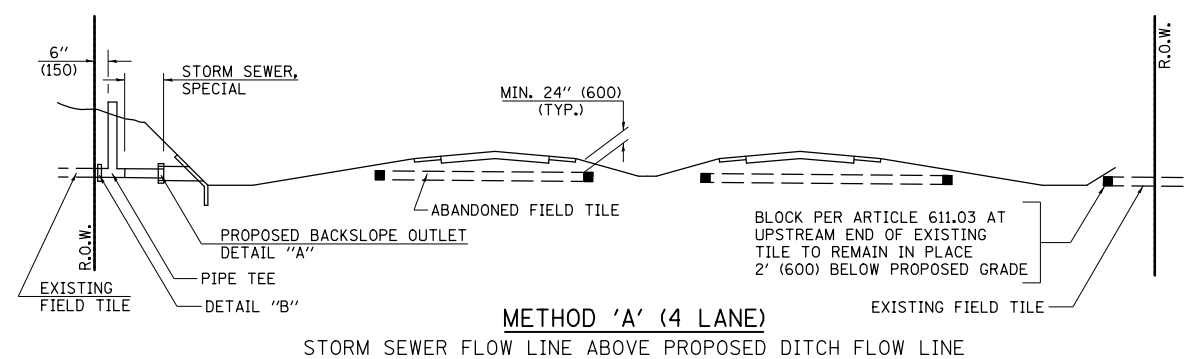
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



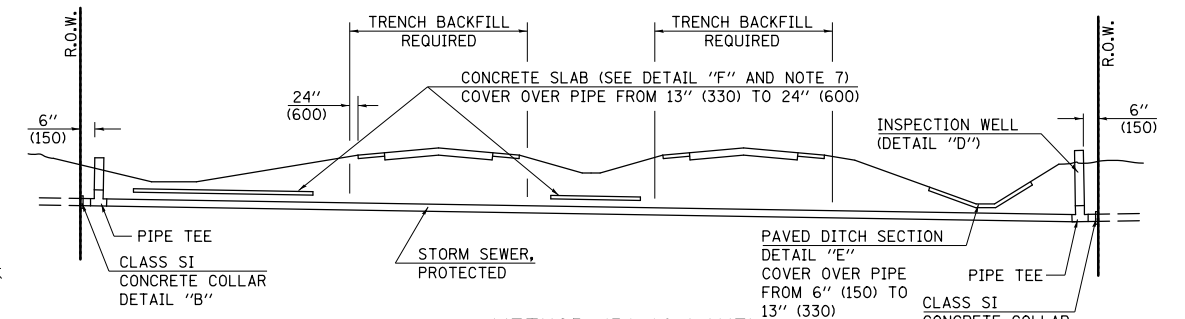
**METHOD 'B' (2 LANE)**

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



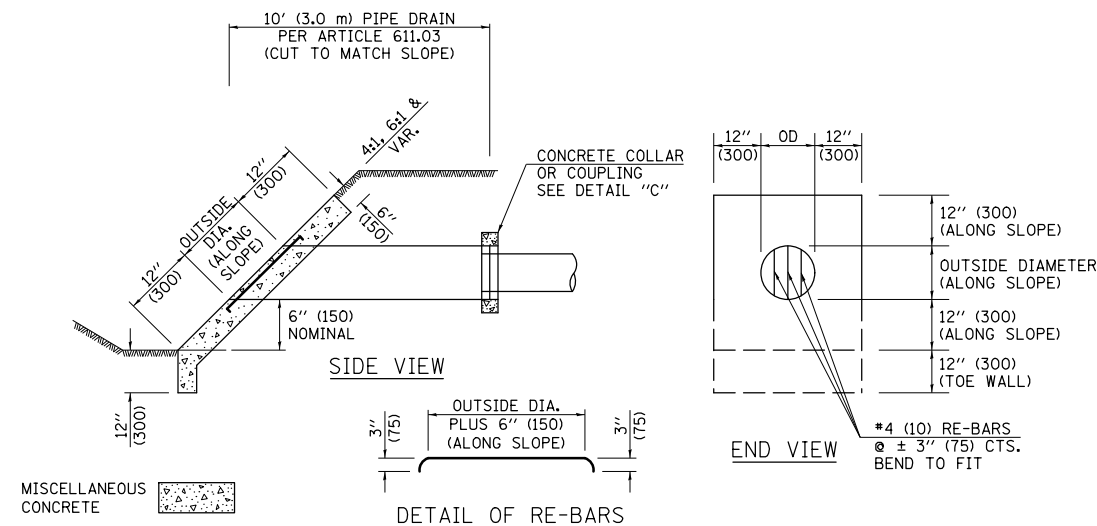
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

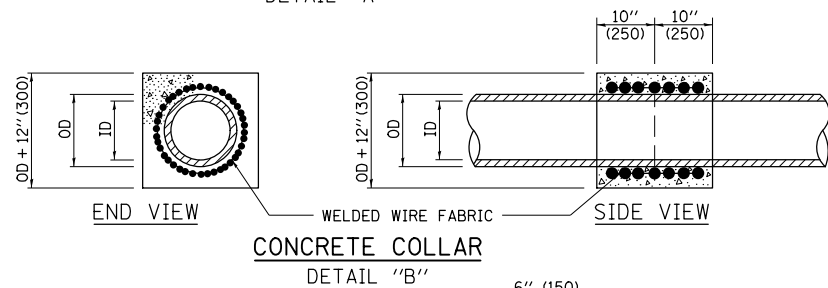


**METHOD 'B' (4 LANE)**

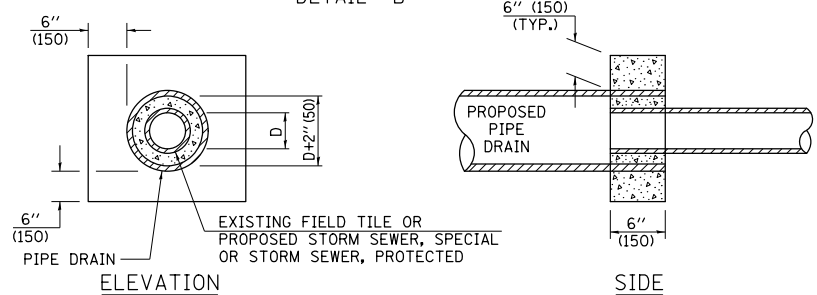
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



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



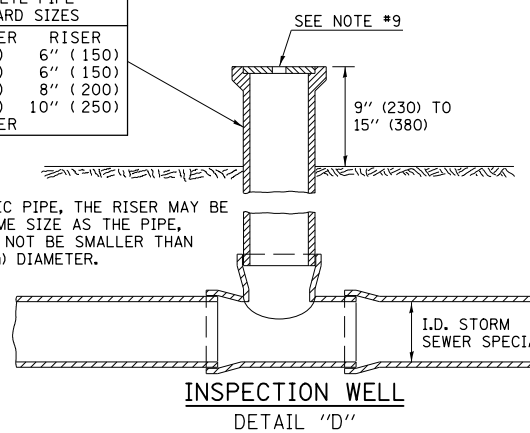
**CONCRETE COLLAR  
DETAIL "B"**



**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)	10" (250)
OR GREATER	

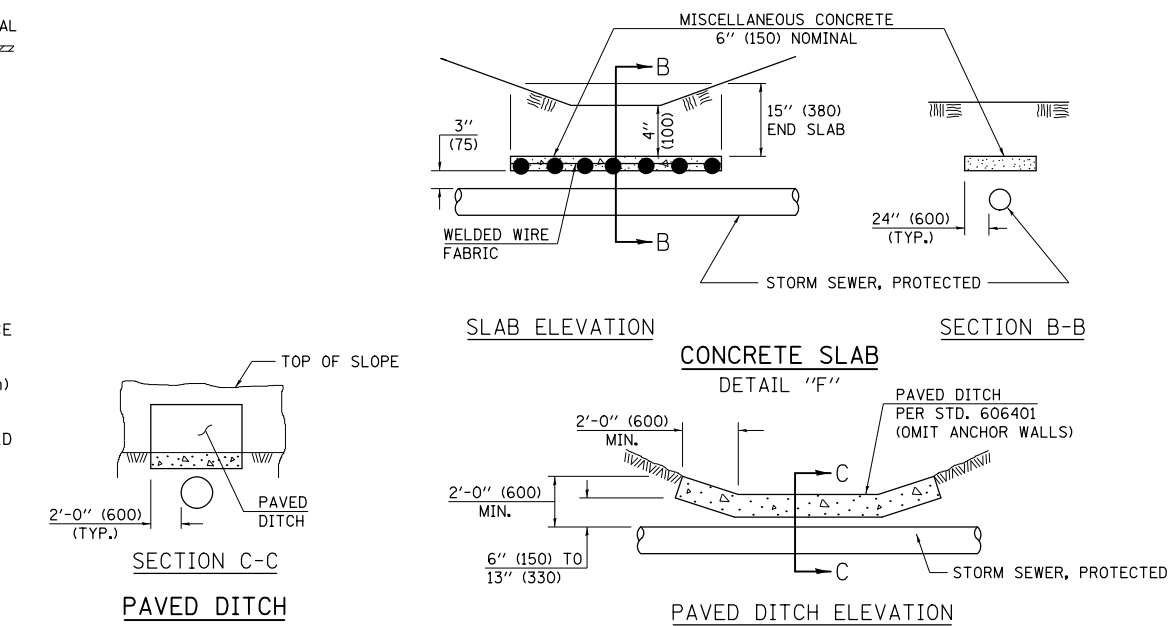
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL  
DETAIL "D"**

**GENERAL NOTES**

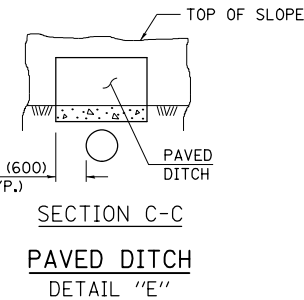
- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS 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.



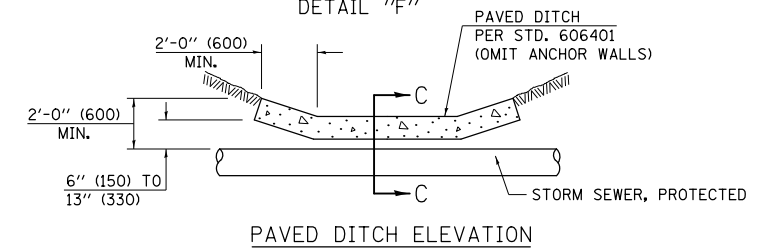
**SLAB ELEVATION**

**CONCRETE SLAB  
DETAIL "F"**

**SECTION B-B**



**PAVED DITCH  
DETAIL "E"**



**PAVED DITCH ELEVATION**

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

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\$MODELNAME\$	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

SCALE: SHEET OF SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 61101011A**

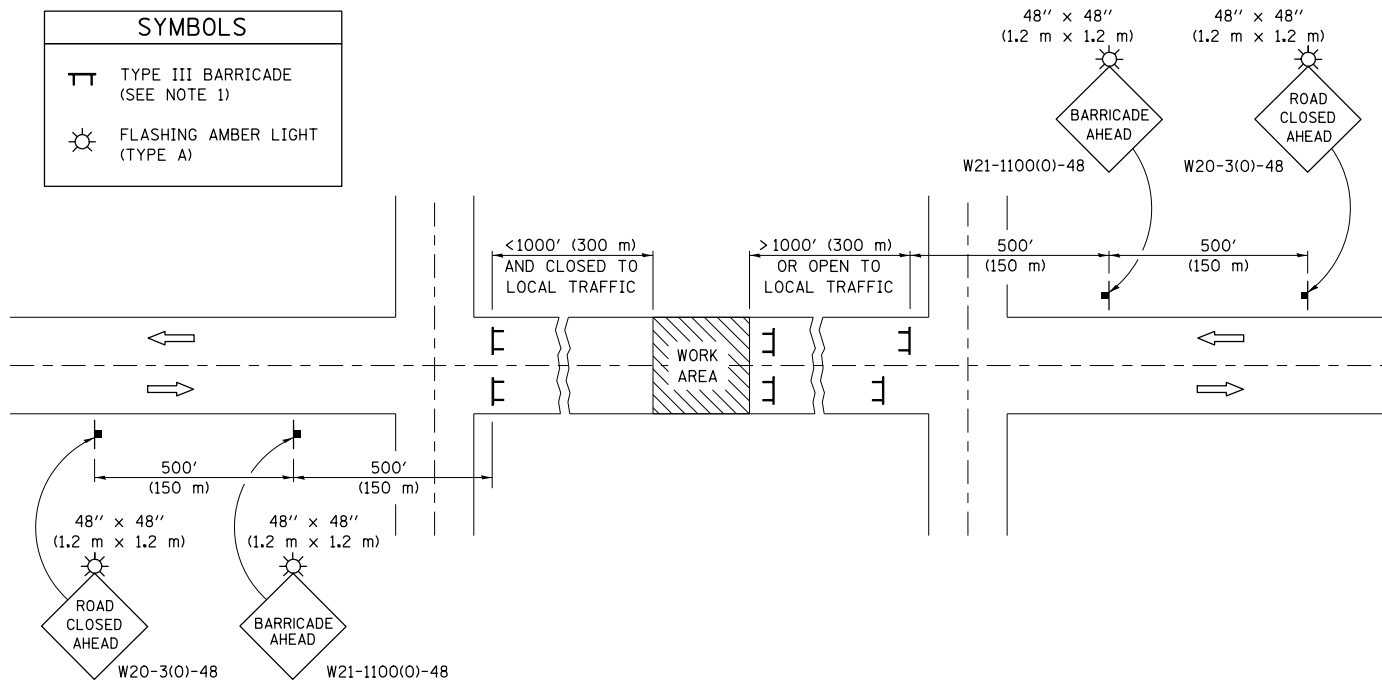
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	48
				CONTRACT NO. 70533
ILLINOIS FED. AID PROJECT				



# ROAD CLOSURE

# SIDEROAD / STREET CLOSURE

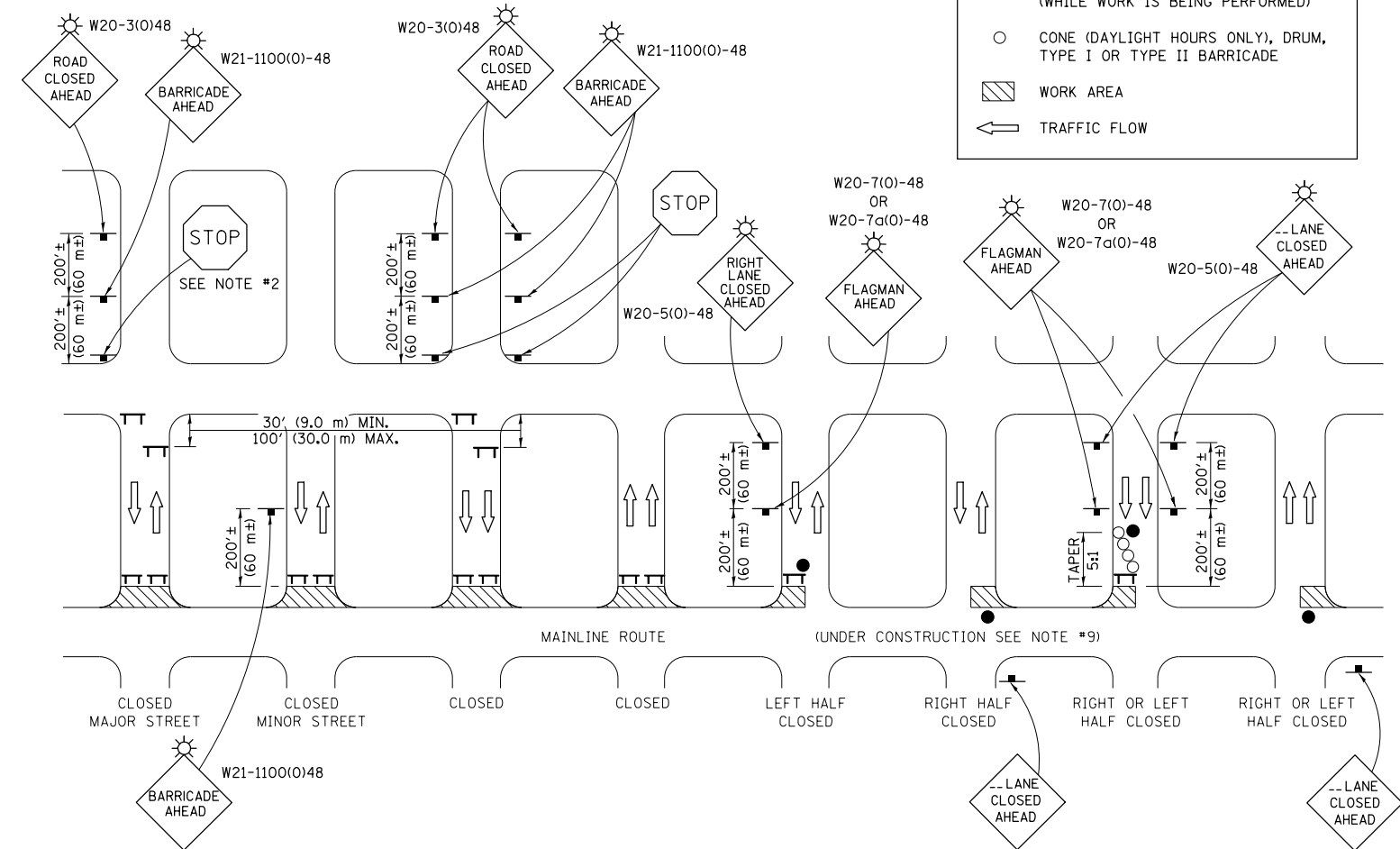
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



### 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)
	CONES (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.

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\$MODELNAME\$	PLOT DATE = 3/21/2018	DATE -	REVISED -

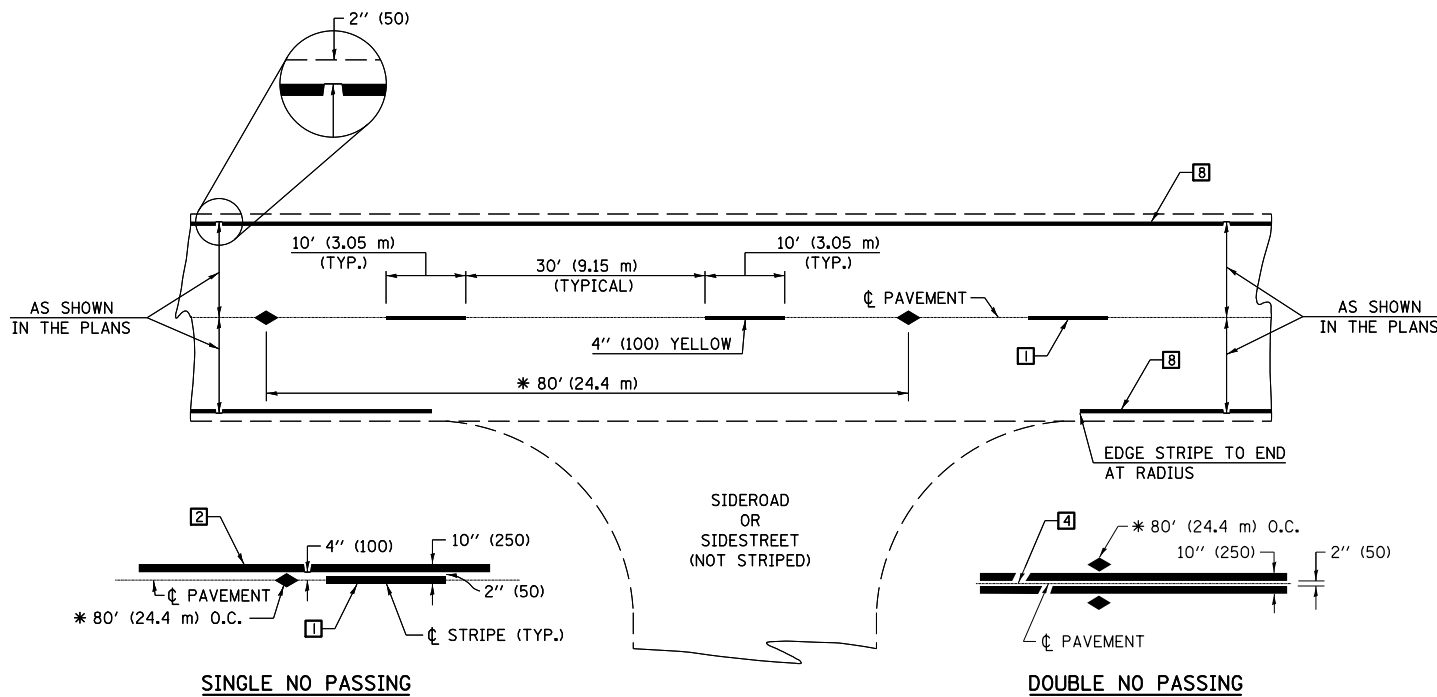
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SCALE: SHEET OF SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7020000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	49
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

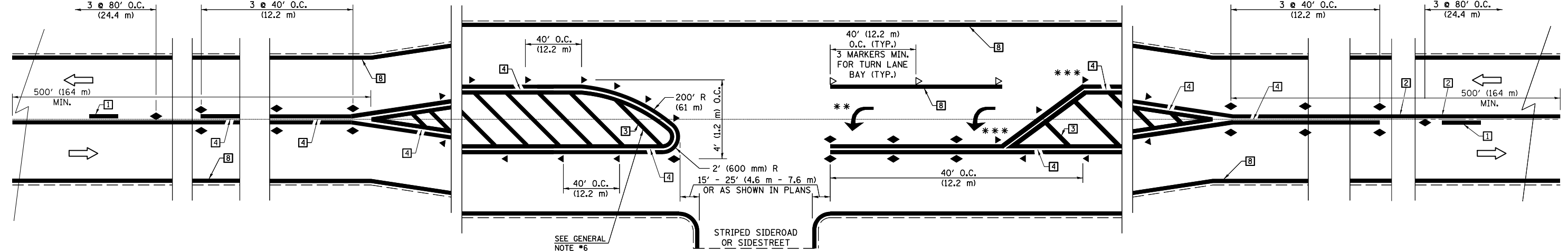
**TYPICAL PAVEMENT MARKING LEGEND**

- 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.

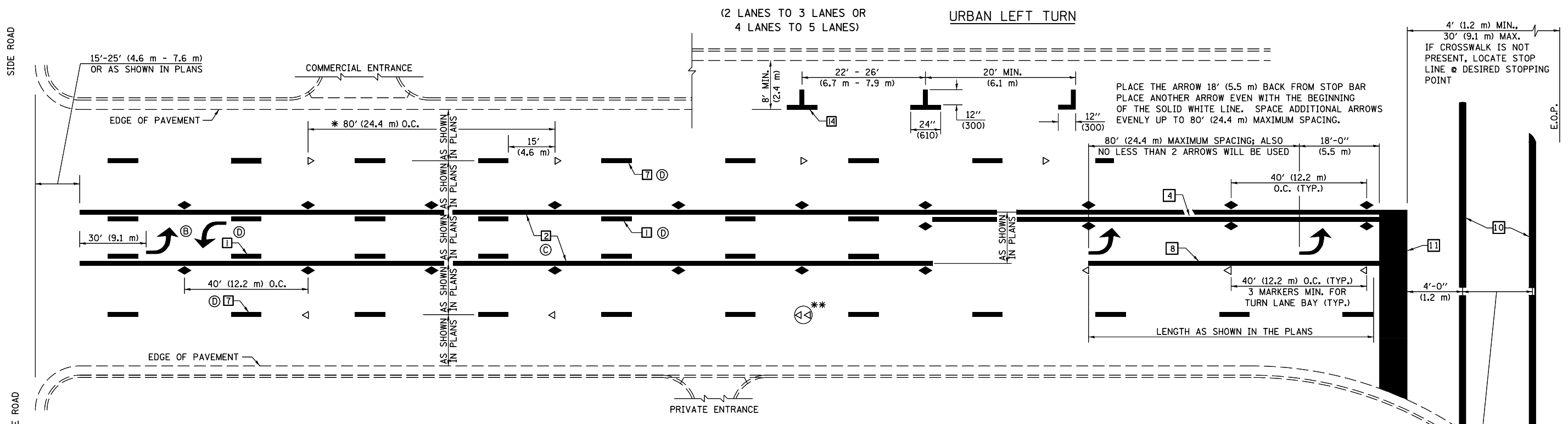
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
*MODELNAME*	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

<b>DISTRICT 5 DETAIL NO. 7800AAA</b>				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	50
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				

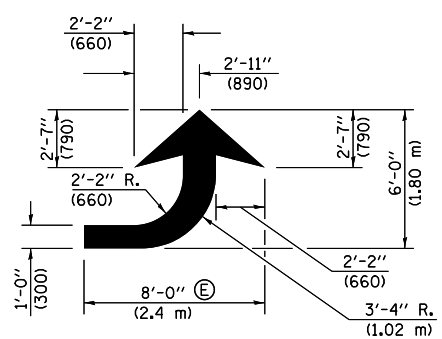


\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

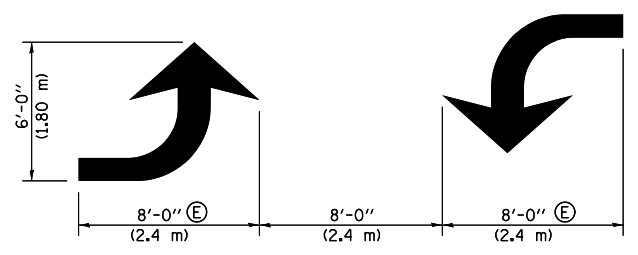
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

**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)

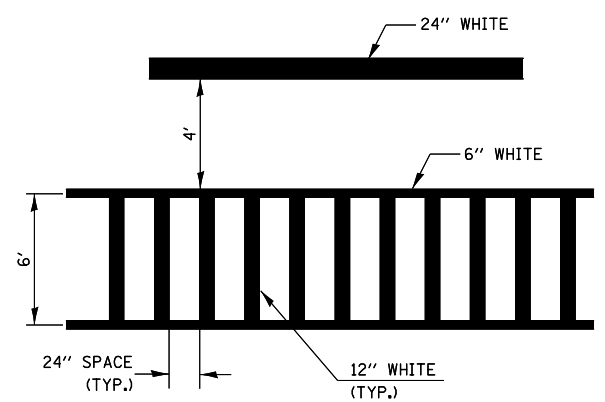


**LEFT ARROW**  
REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

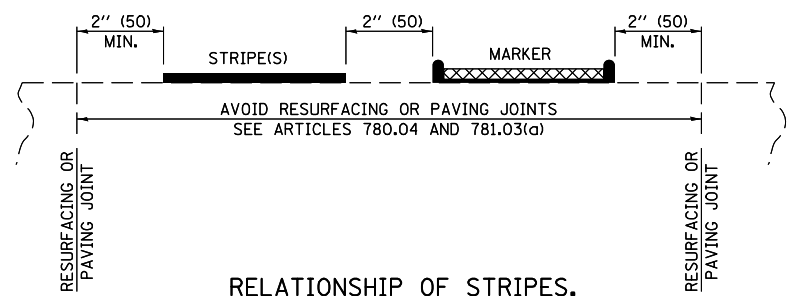


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

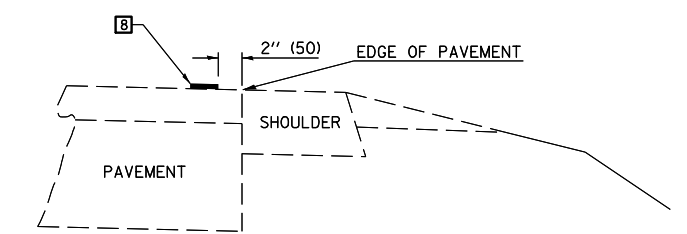
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**

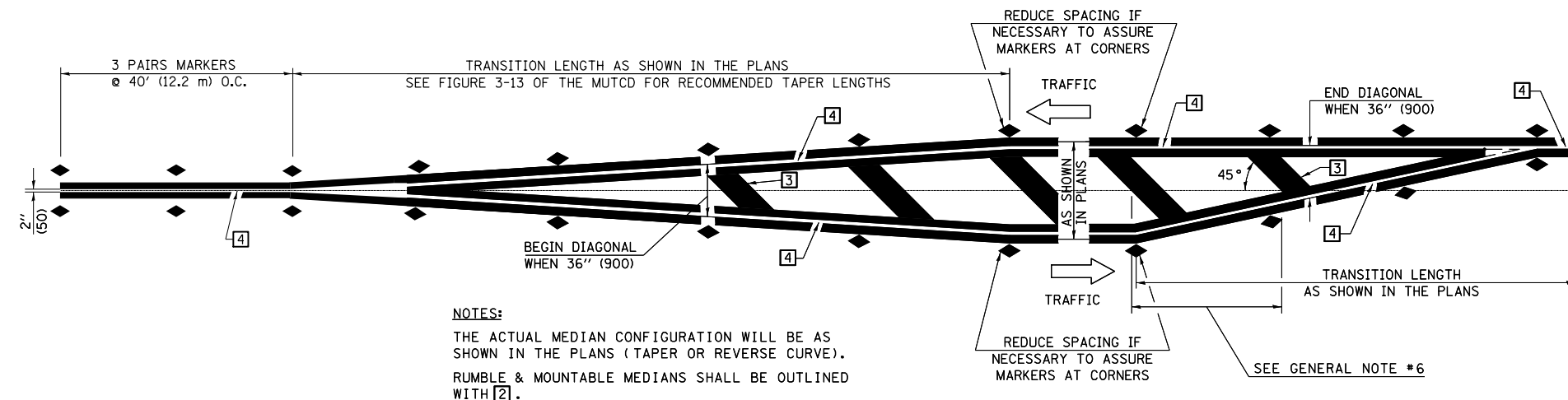


**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT**  
(SAFETY SHOULDER OR PAVED SURFACE)  
SEE ARTICLE 780.04

CROSSWALK WIDTH 6'-0" (1.8 m) OR AS SHOWN IN THE PLANS

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

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 11/06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\050522\Drawings\Design\0570533-shr-CADD Des\REVISED - 09/2009 - KJT	PLLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA			294	14 BR & DM	MCLEAN	87	51	
*MODELNAME*	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70533					
						ILLINOIS FED. AID PROJECT					

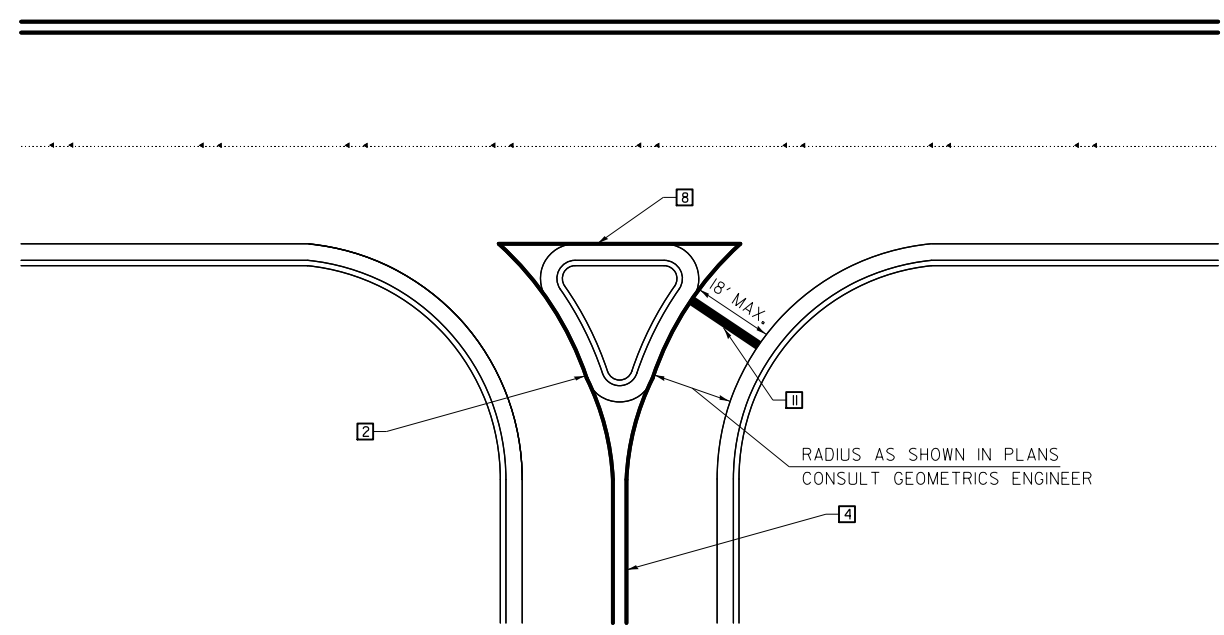


**NOTES:**  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

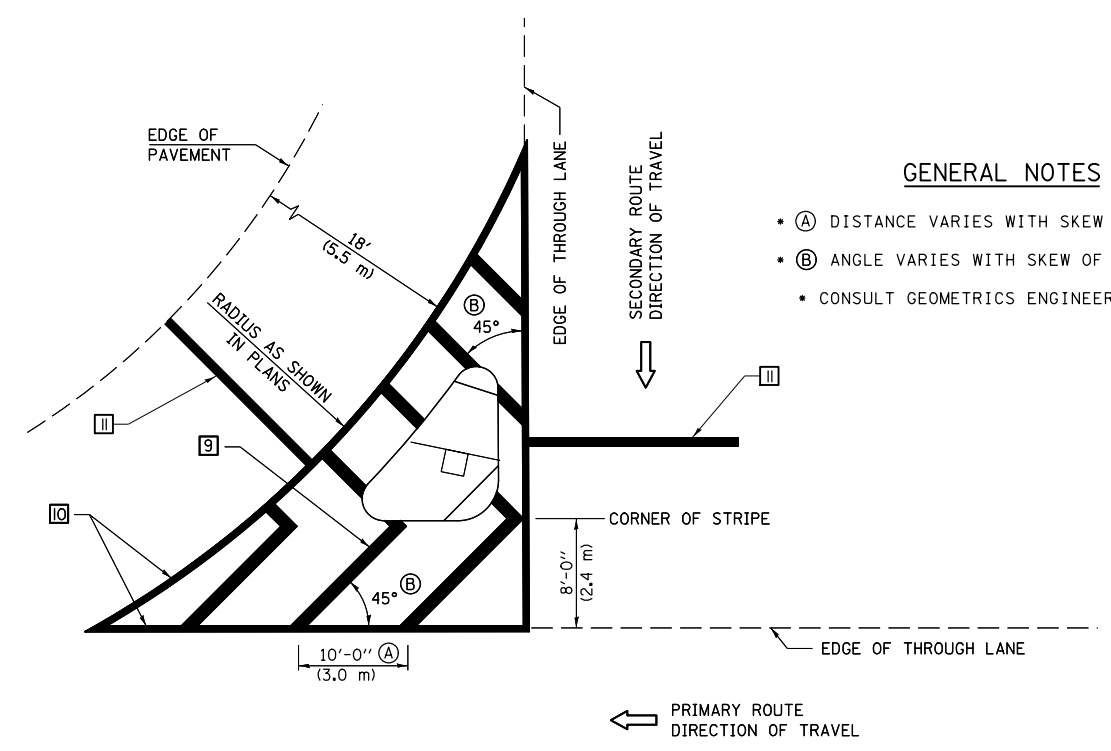
**TYPICAL MEDIAN TRANSITIONS**

**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**

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

**ISLAND**

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

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\$MODELNAME\$	PLOT DATE = 3/21/2018		REVISED -

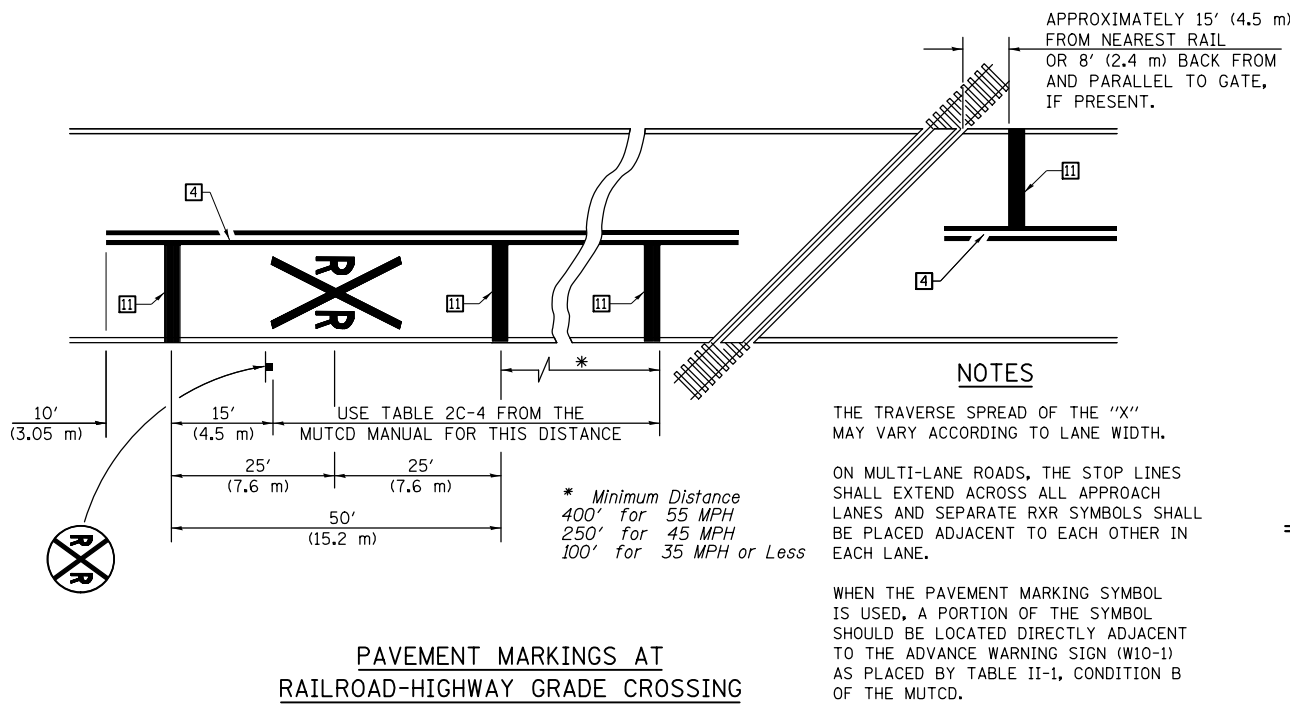
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

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

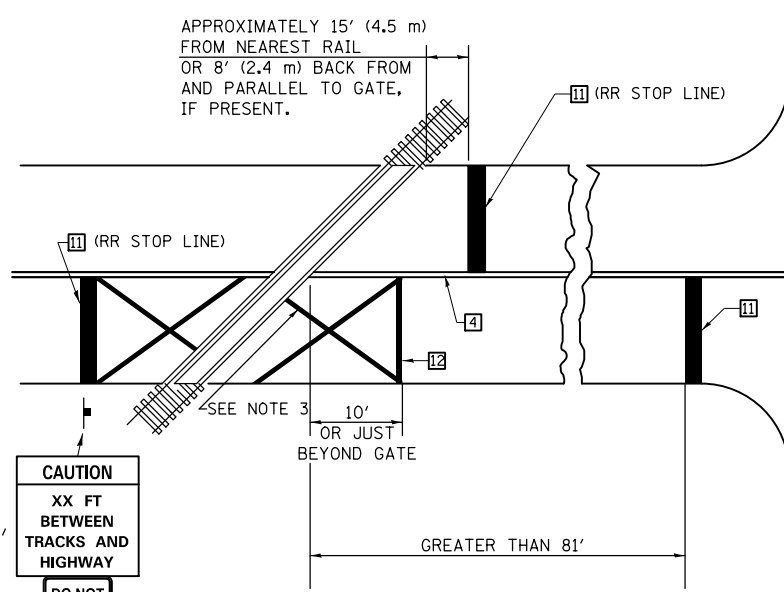
**DISTRICT 5 DETAIL NO. 7800AAA**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	52
CONTRACT NO. 70533				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

RAILROAD CROSSING WITH INTERCONNECT ONLY



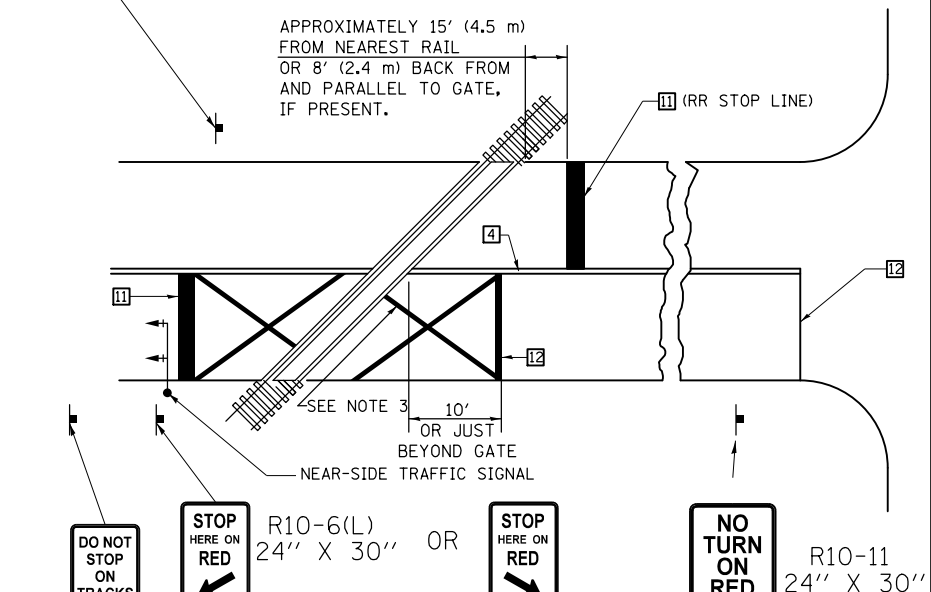
W10-I100  
30" X 36"

CAUTION  
XX FT  
BETWEEN  
TRACKS AND  
HIGHWAY

DO NOT  
STOP ON  
TRACKS

R8-8  
24" X 30"

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



DO NOT STOP ON TRACKS (R8-8) 24" X 30"

ONLY IF SIGNAL HEAD CANNOT BE LOCATED IN MEDIAN

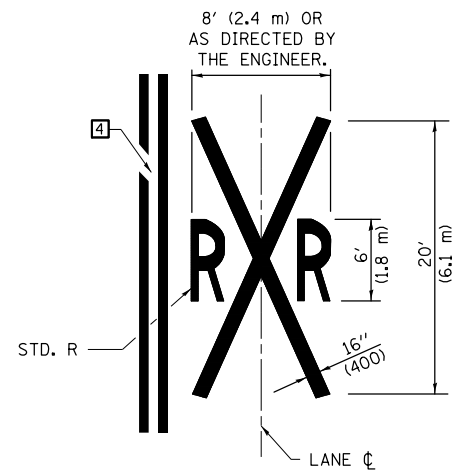
DO NOT STOP ON TRACKS

STOP HERE ON RED (R10-6(L)) 24" X 30" OR STOP HERE ON RED (R10-6(R)) 24" X 30" IF IN MEDIAN

NO TURN ON RED (R10-11) 24" X 30"

DO NOT STOP ON TRACKS (R8-8) 24" X 30"

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING



ALTERNATE SIGNS

STOP HERE ON RED (R10-6a(L)) 24" X 30"

STOP HERE ON RED (R10-6a(R)) 24" X 30"

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.

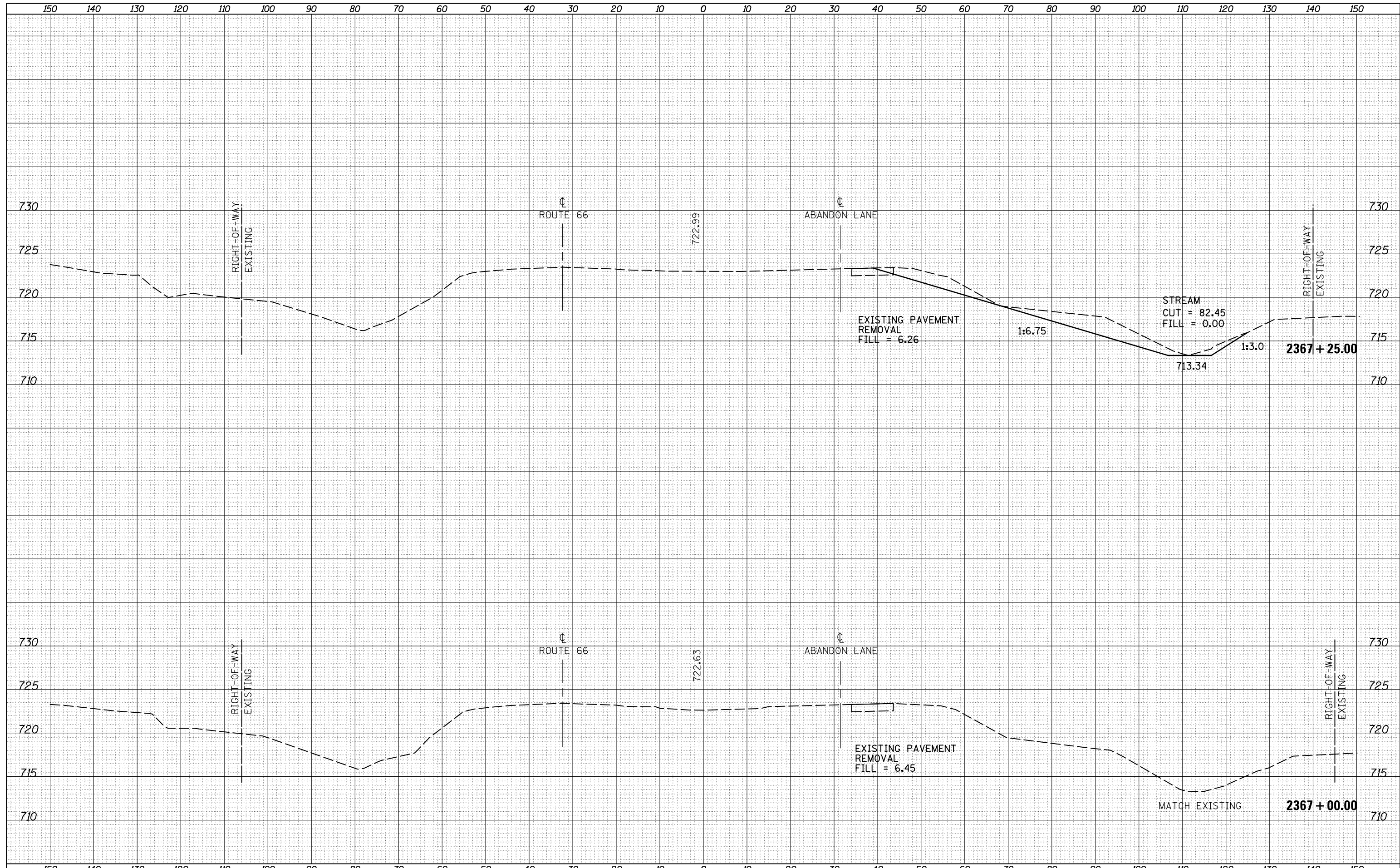
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAA

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 11/06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\Illinois.gov\PI\DOT Documents\DOT Offices\District 5\Projects\050522\Design\0570533-shr-CADD Des\REVISED - 09/2009 - KJT	DRAWN	CHECKED -	REVISED - 04/14 - JLA			294	14 BR & DM	MCLEAN	87	53	
*MODELNAME*	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -			CONTRACT NO. 70533					
	PLOT DATE = 3/21/2018					ILLINOIS FED. AID PROJECT					

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

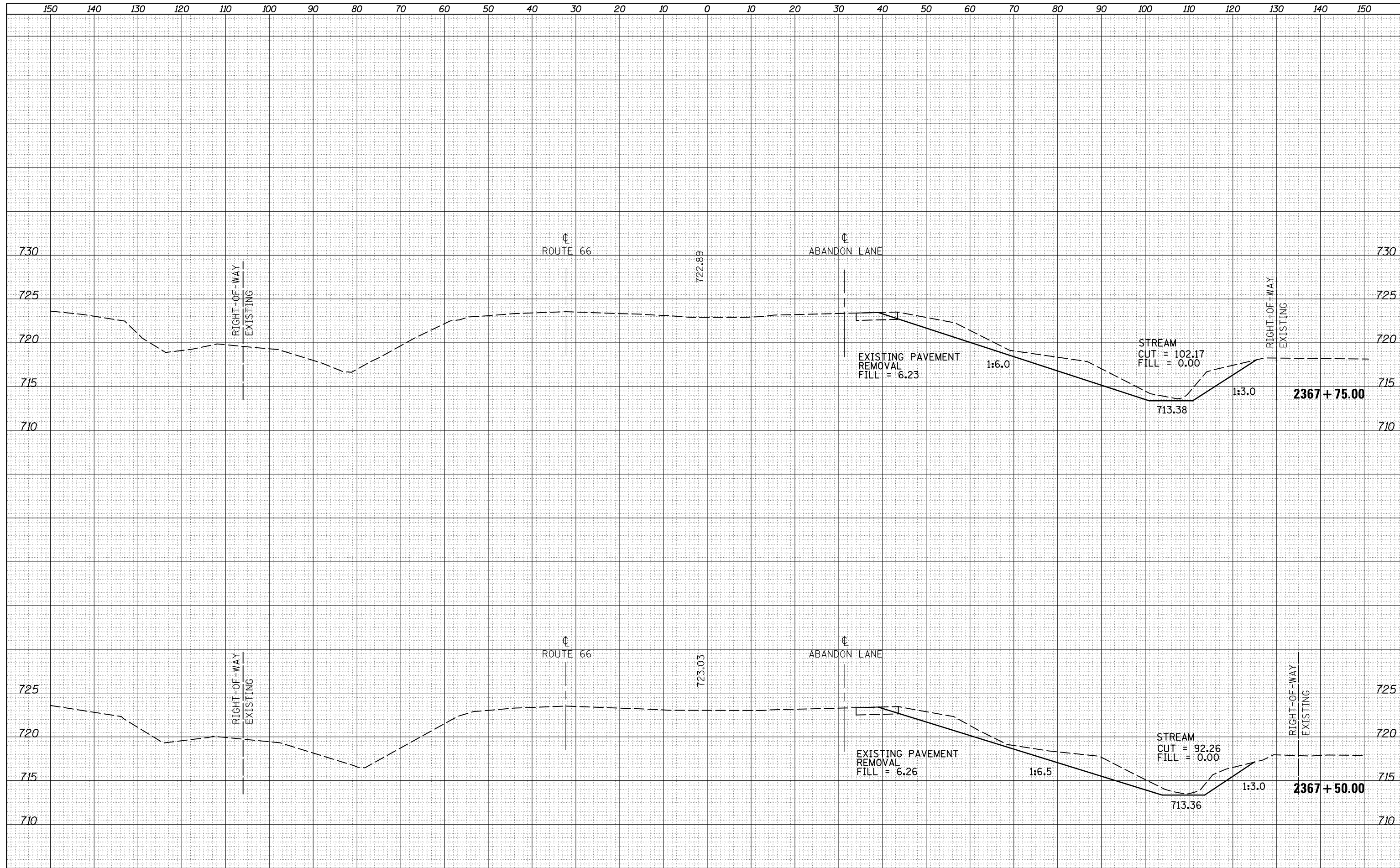
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CADD\Drawn\570533-shr-xs-mainline.dgn	DRAWN	REVISIED -	REVISIED -			294	14 BR & DM	CLEAN	87	54
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
PLOT DATE = 3/21/2018	DATE -	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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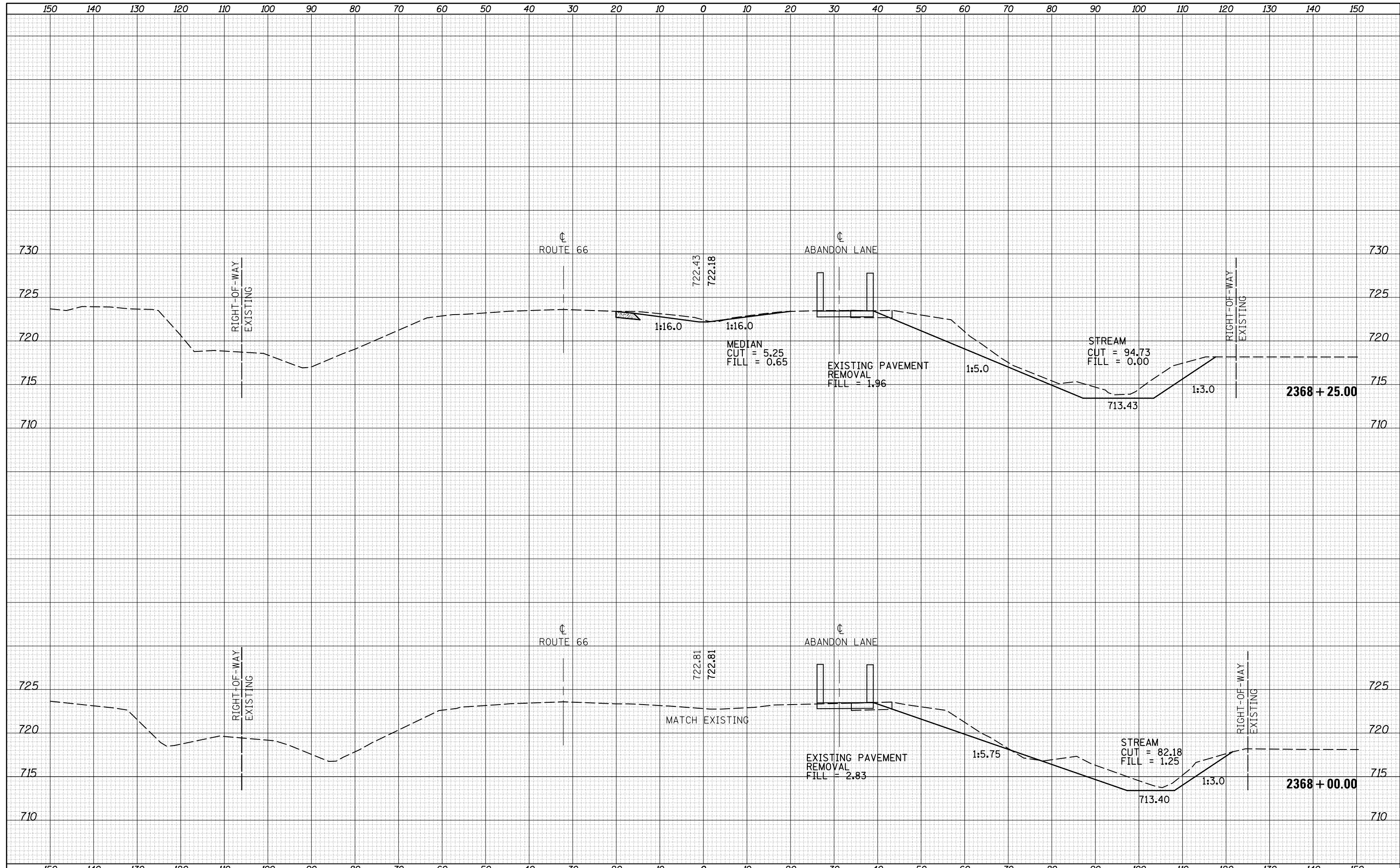


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\570533-shr-xs-mainline.dgn	NOTED	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	55
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
PLOT DATE = 3/21/2018	DATE -	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 2 OF 19 SHEETS STA. 2367+50.00 TO STA. 2367+75.00

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

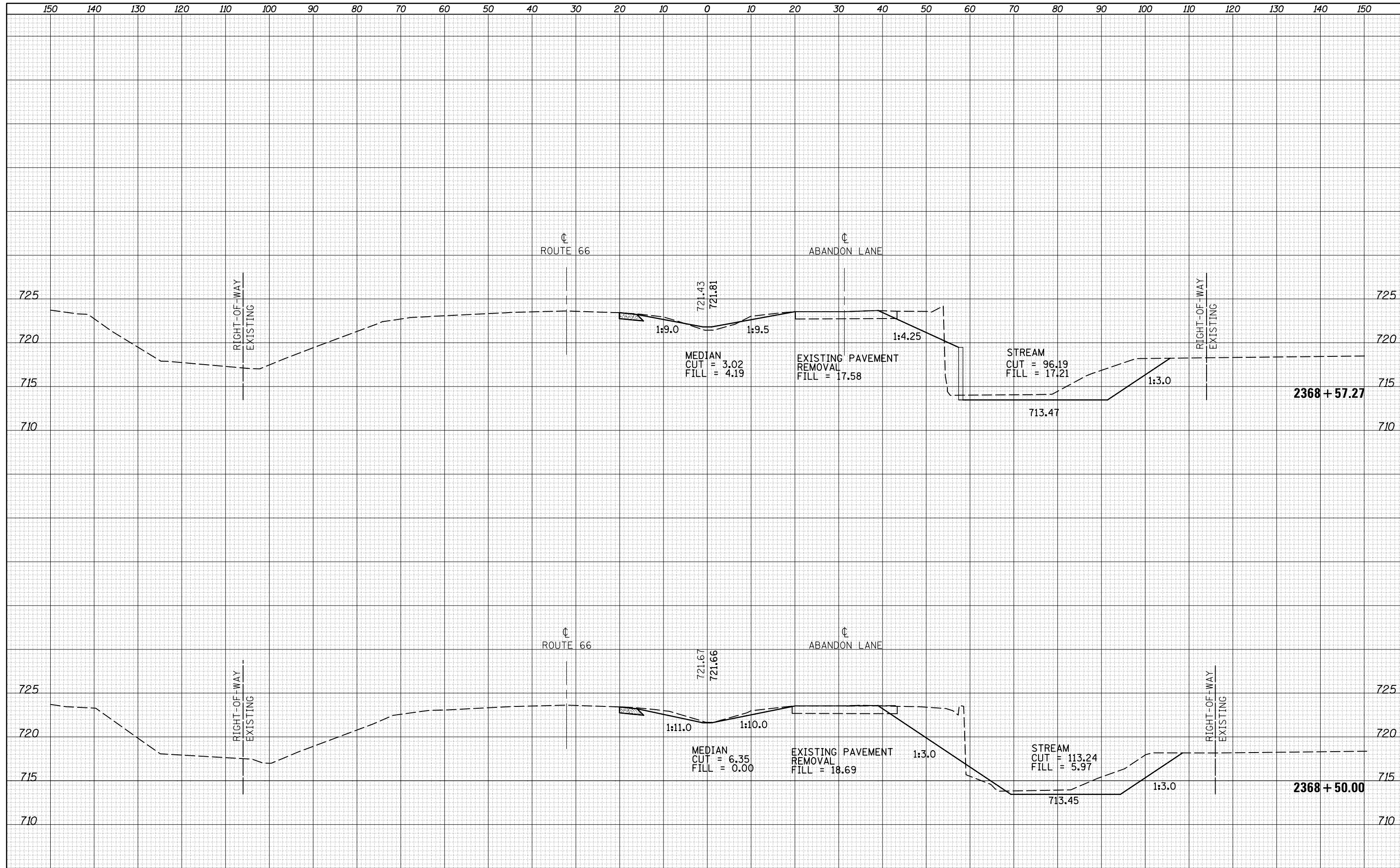


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-mainline.dgn	NO. OF SHEETS	294	14 BR & DM			MCLEAN	87	56		
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70533							
DATE = 3/21/2018	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:					SHEET 3 OF 19 SHEETS	STA. 2368+00.00 TO STA. 2368+25.00				



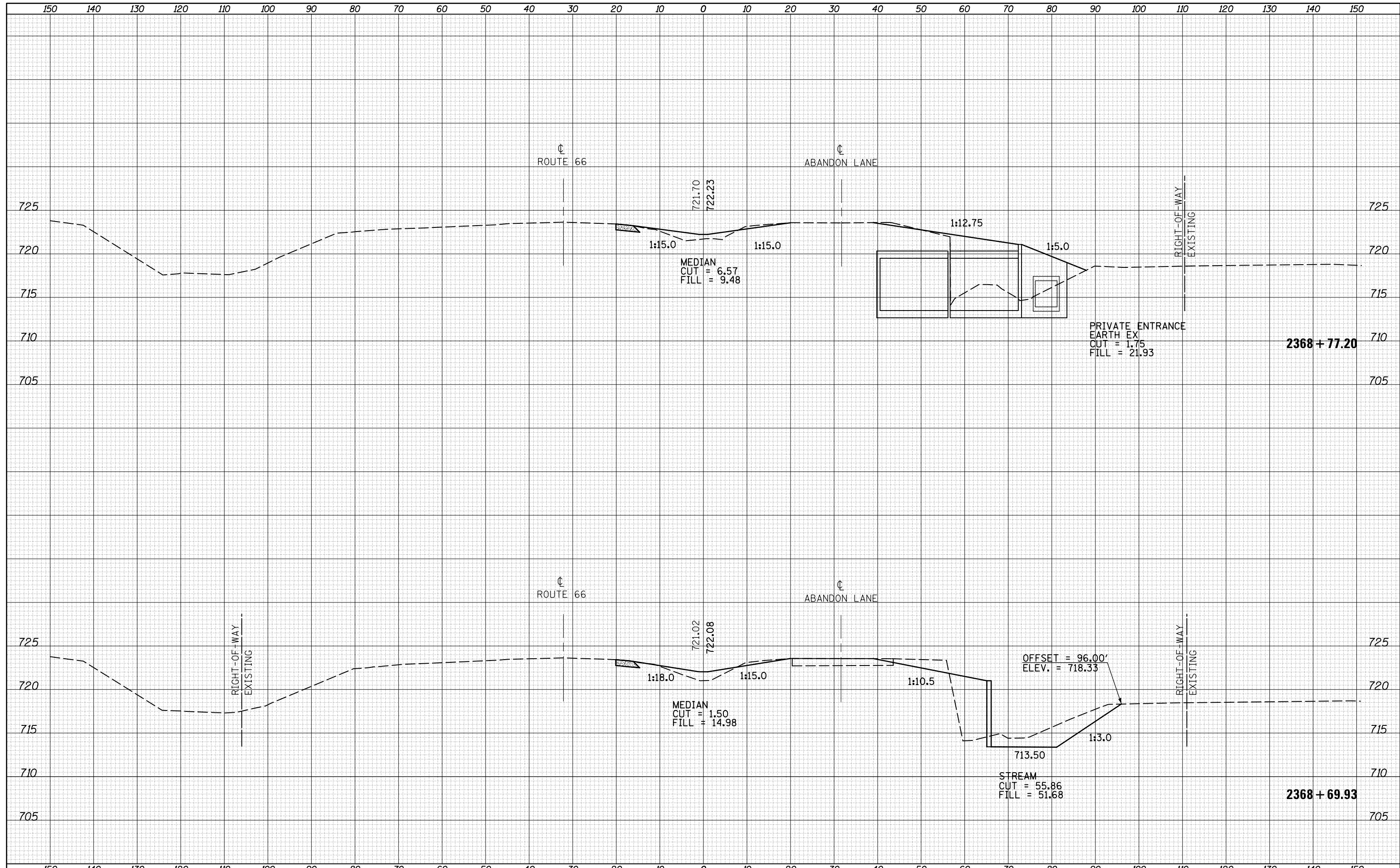
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ORIGINAL SURVEY	
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NOTE BOOK	
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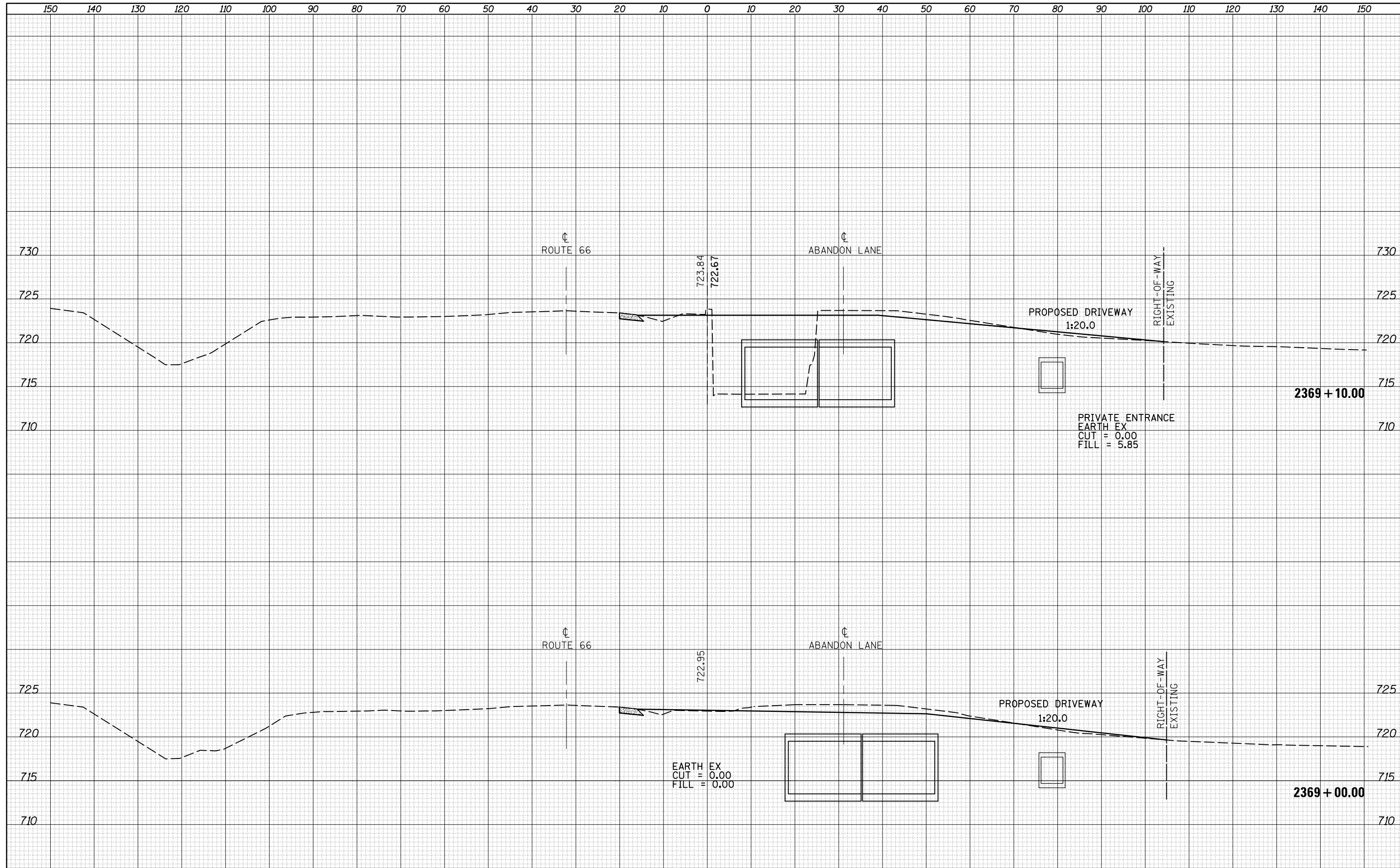
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-mainline.dgn	DESIGNED -	REVISED -	294			14 BR & DM	MCLEAN	87	58	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70533							
DATE = 3/21/2018	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:		SHEET 5 OF 19 SHEETS		STA. 2368+69.93 TO STA. 2368+77.20						

DATE	
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FINAL SURVEY	SURVEYED
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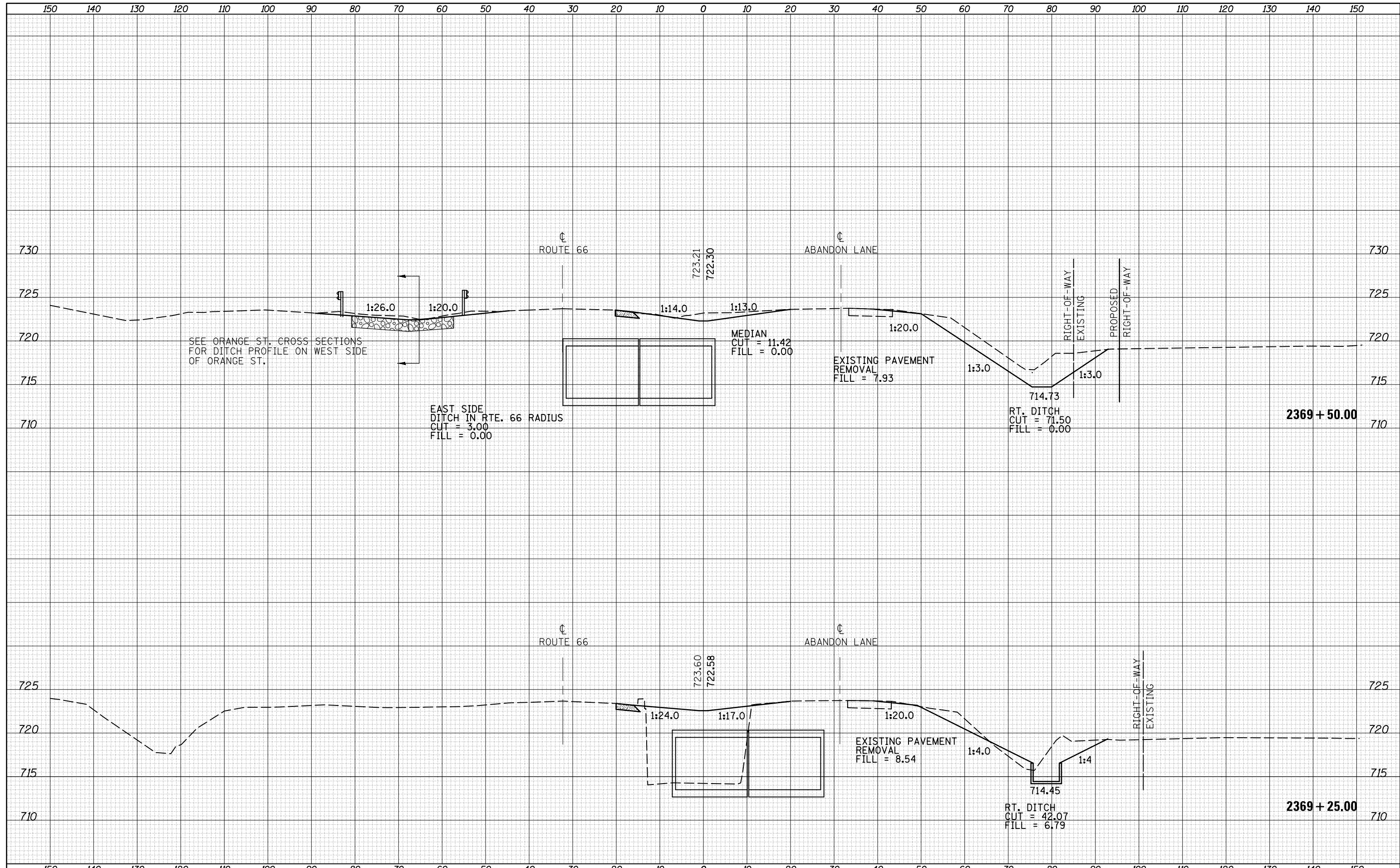
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NOTE BOOK	PLOTTED
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	AREAS
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-mainline.dgn	NOTED	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	59
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
PLOT DATE = 3/21/2018	DATE -	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT				
SCALE:				SHEET 6 OF 19 SHEETS		STA. 2369+00.00 TO STA. 2369+10.00				

DATE	
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FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED	
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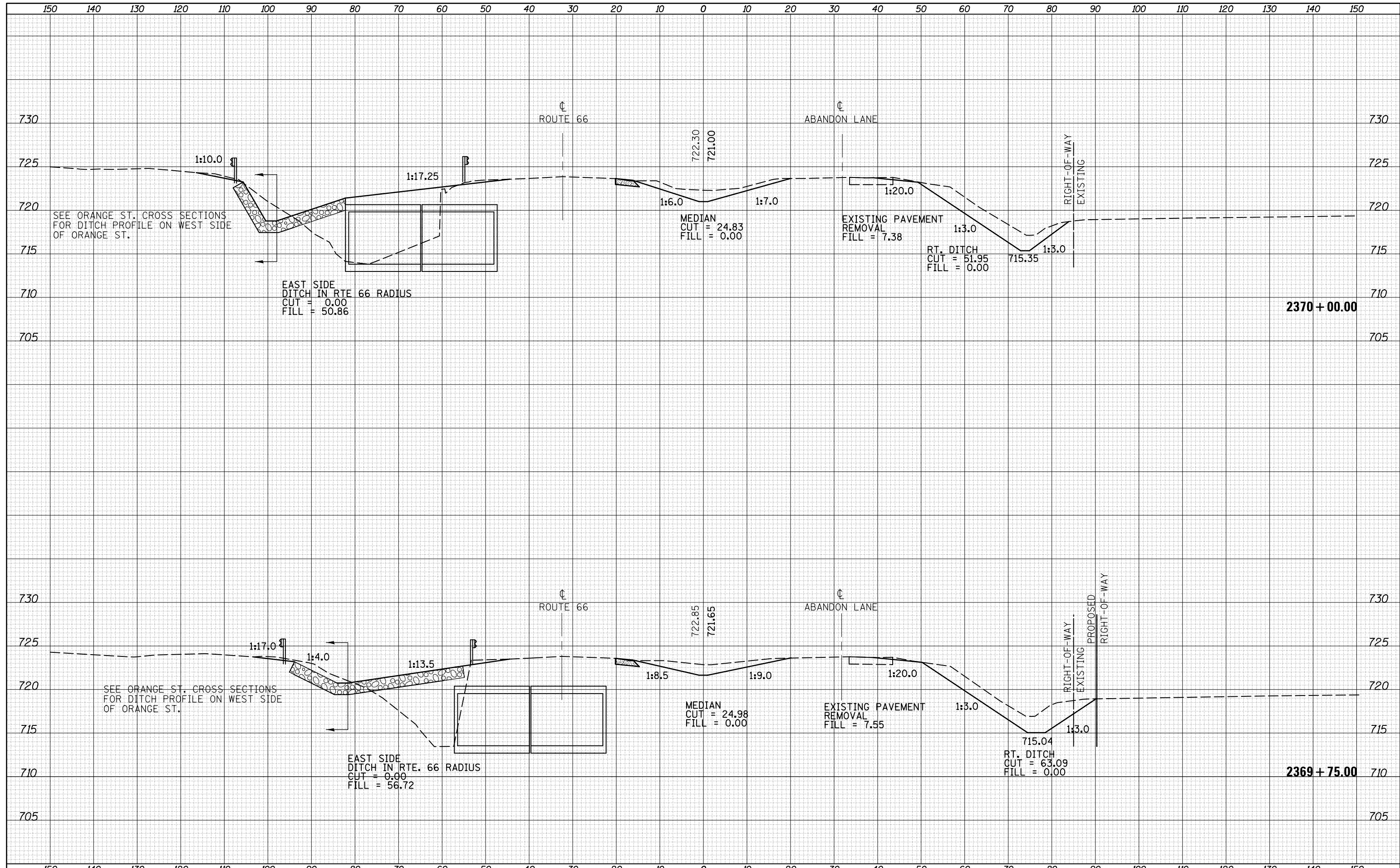
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-mainline.dgn	NO. OF REVISIONS	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	60
PLOT SCALE = 20.0000' / in.	DATE	DATE	DATE			CONTRACT NO. 70533				
PLOT DATE = 3/21/2018						ILLINOIS FED. AID PROJECT				

DATE	
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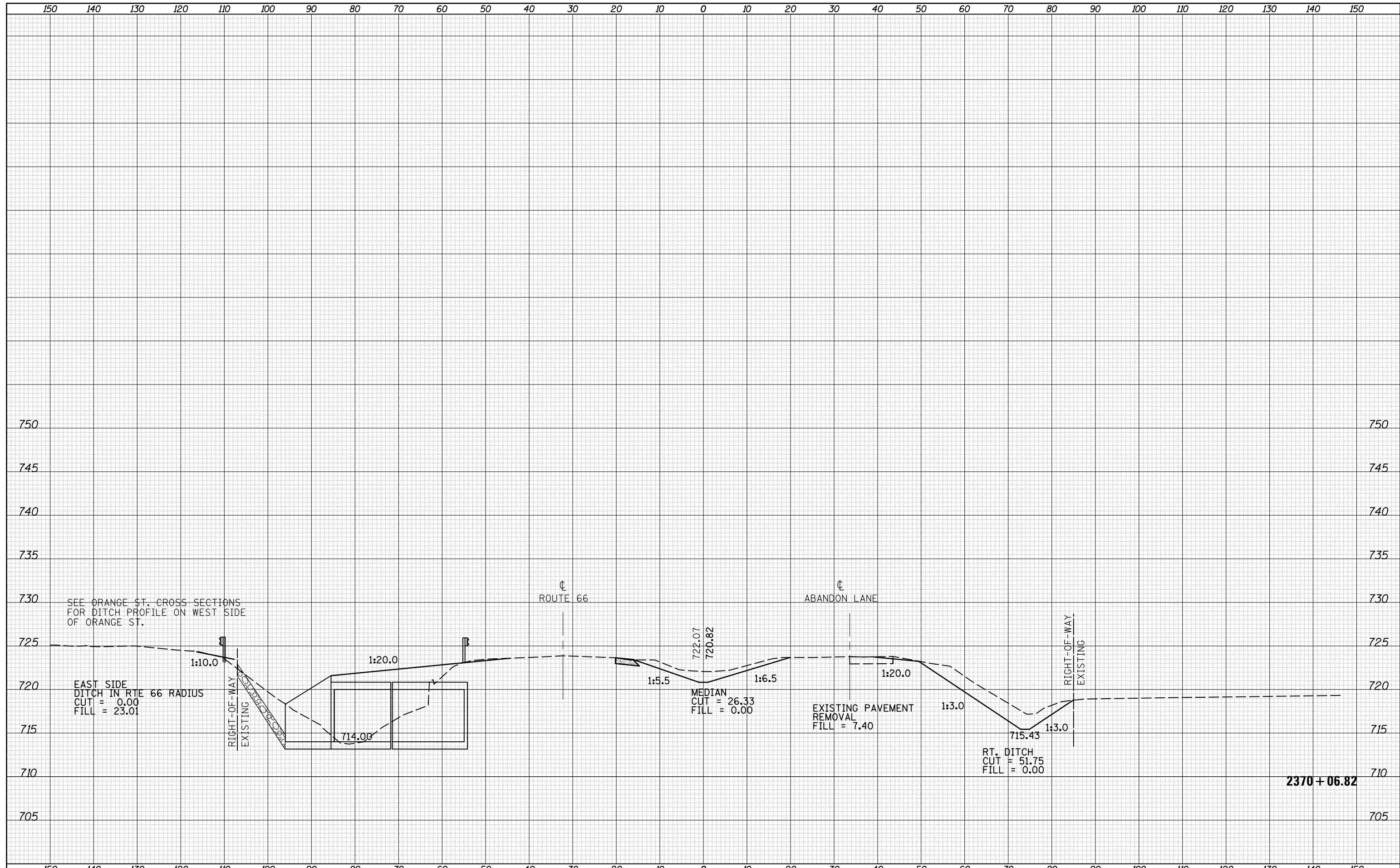


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b> SCALE: SHEET 8 OF 19 SHEETS STA. 2369+75.00 TO STA. 2370+00.00	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWN\design\0570533-shr-xs-mainline.dgn		REVISOR -	REVISED -		294	14 BR & DM	MCLEAN	87	61
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 70533				
PLOT DATE = 3/21/2018		DATE -	REVISED -		ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

DATE	
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FINAL SURVEY	
NOTE BOOK	
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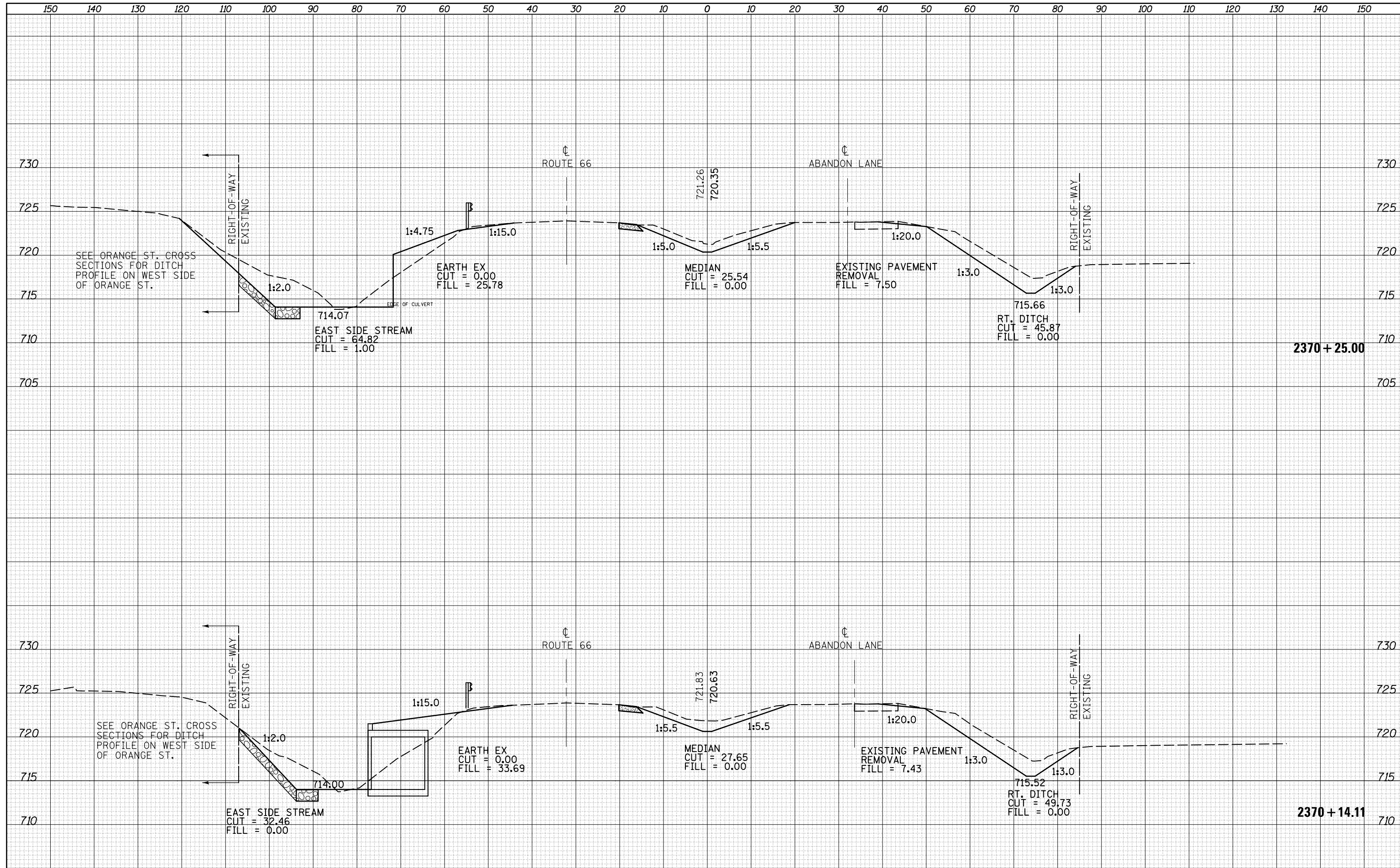
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pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-mainline.dgn	DRAWN	REVISED -	REVISED -			294	14 BR & DM	MCLEAN	87	62
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70533				
DATE = 3/21/2018	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

2370 + 06.82

SCALE: SHEET 9 OF 19 SHEETS STA. 2370+06.82 TO STA. 2370+06.82

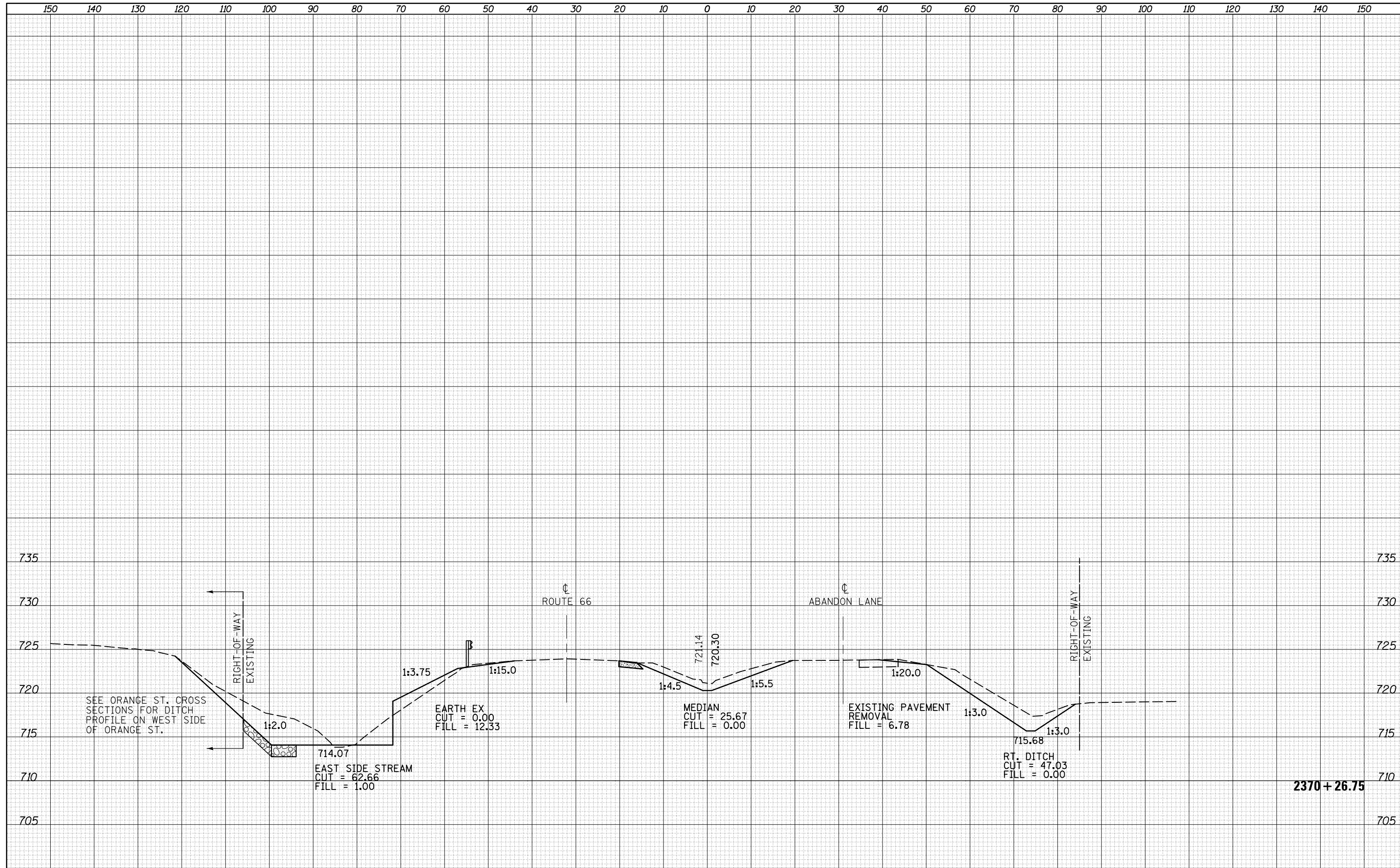
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ORIGINAL SURVEY	SURVEYED
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2370 + 26.75

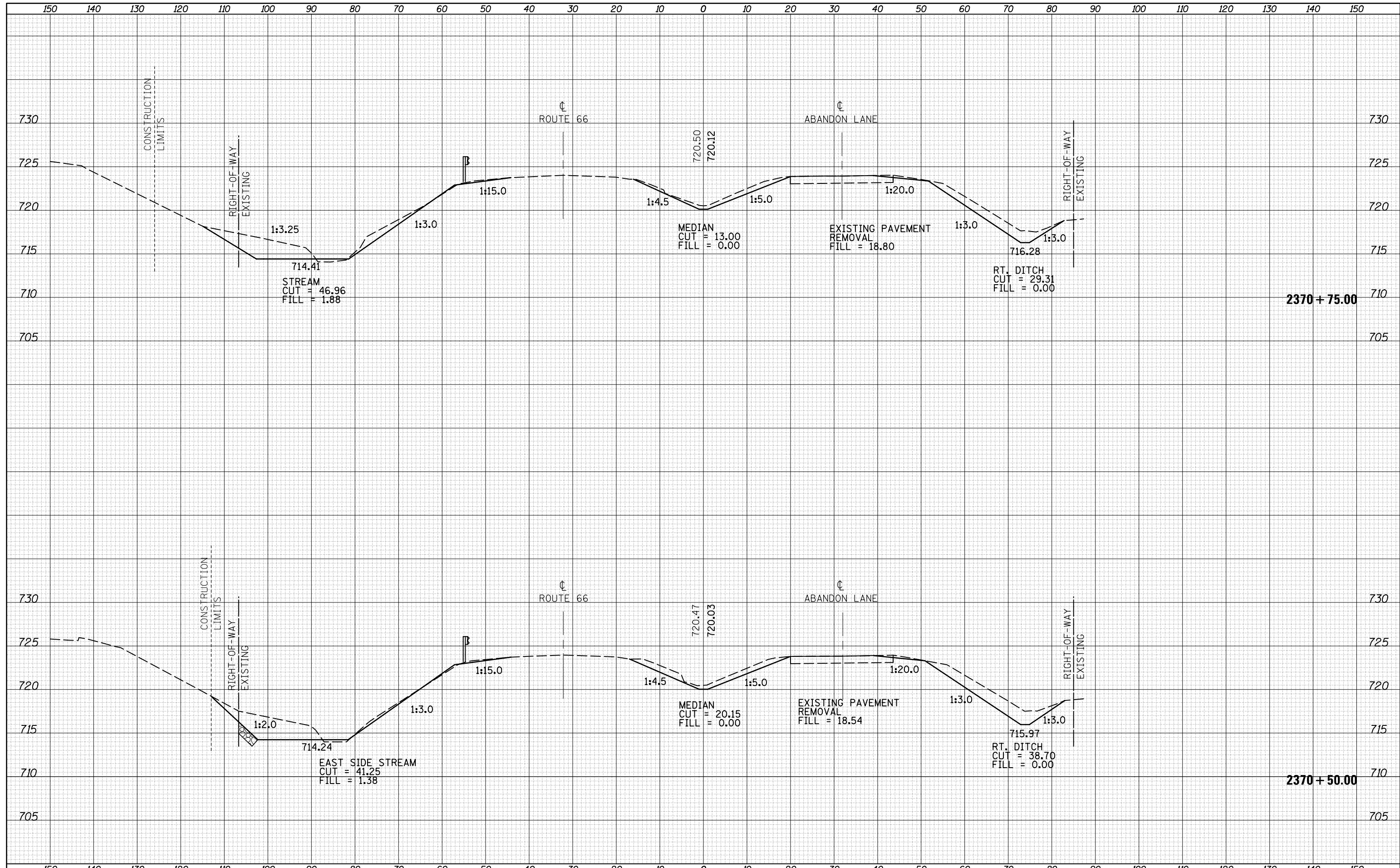
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\570533-shr-xs-mainline.dgn	DRAWN	REVISED -	REVISED -			294	14 BR & DM	MCLEAN	87	64
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70533				
PLOT DATE = 3/21/2018	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 11 OF 19 SHEETS STA. 2370+26.75 TO STA. 2370+26.75



DATE	
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TEMPLATE	
NOTE BOOK	
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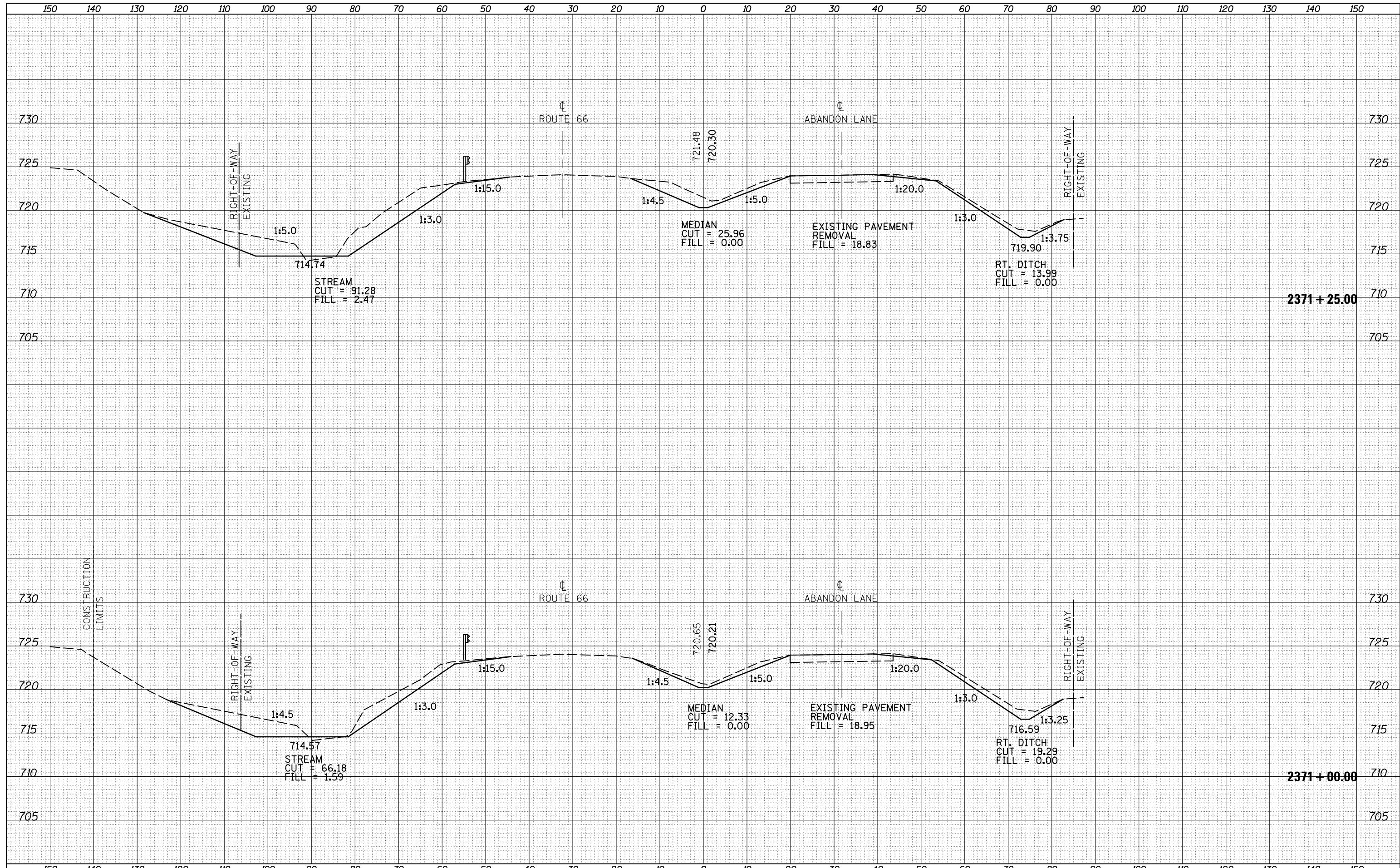


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pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\400\DRAWN\design\0570533-shr-xs-mainline.dgn	DRAWN	REVISED -	REVISED -			294	14 BR & DM	MCLEAN	87	65
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70533				
DATE = 3/21/2018	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 12 OF 19 SHEETS STA. 2370+50.00 TO STA. 2370+75.00

DATE	
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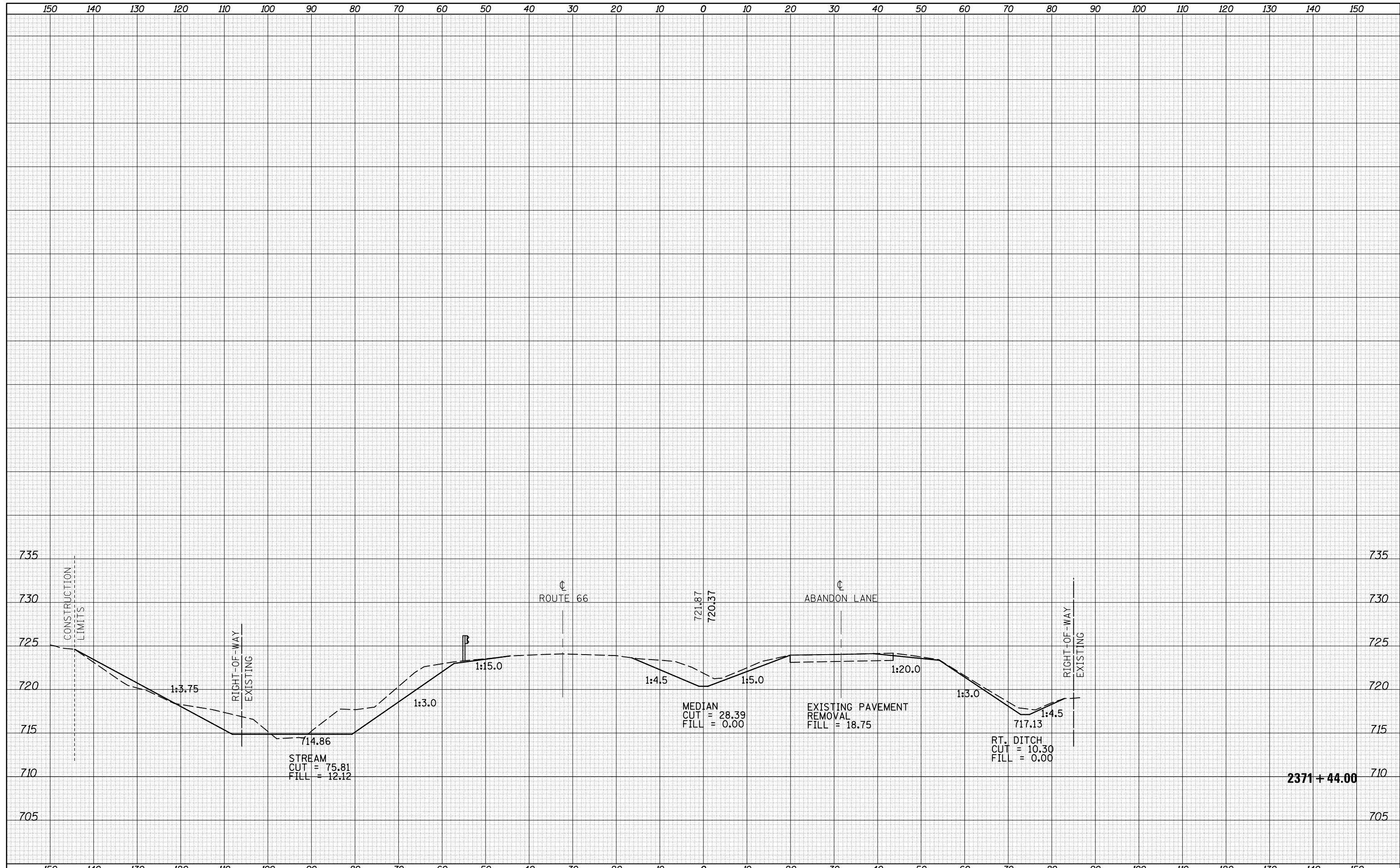
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWN	DESIGNED -	REVISED -	294			14 BR & DM	MCLEAN	87	66	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70533							
DATE = 3/21/2018	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:		SHEET 13 OF 19 SHEETS			STA. 2371+00.00 TO STA. 2371+25.00					

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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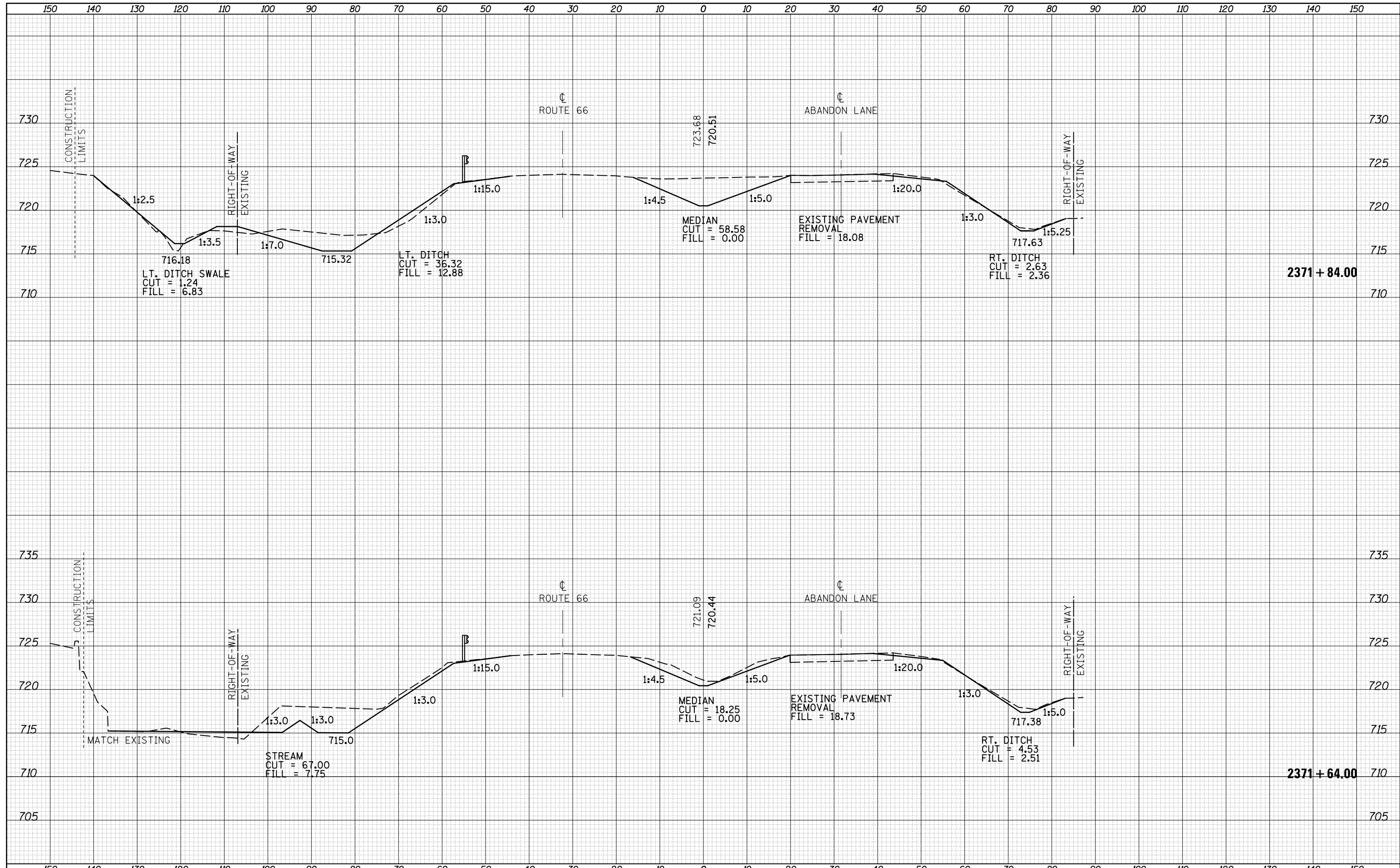


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b> SCALE: SHEET 14 OF 19 SHEETS STA. 2371+44.00 TO STA. 2371+44.00	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\IDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-mainline.dgn		REVISIED -	REVISIED -		294	14 BR & DM	MCLEAN	87	67
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	REVISIED -		CONTRACT NO. 70533				
PLOT DATE = 3/21/2018	DATE -	REVISIED -	REVISIED -		ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

DATE	
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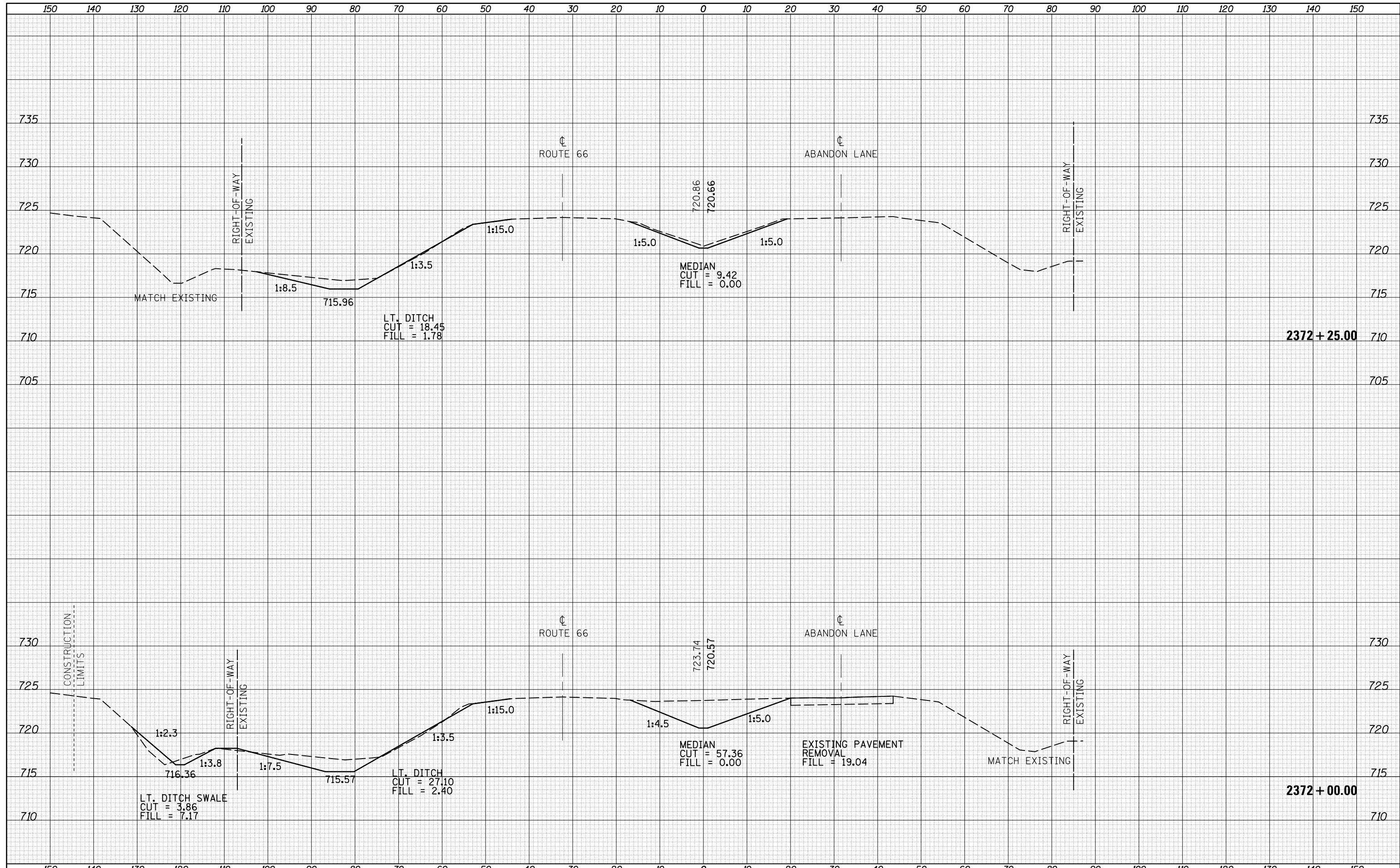


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b> SCALE: SHEET 15 OF 19 SHEETS STA. 2371+64.00 TO STA. 2371+84.00	F.A.S. RTE. 294	SECTION 14 BR & DM	COUNTY MCLEAN	TOTAL SHEETS 87	SHEET NO. 68
PROJECT =	PROJECT =	CHECKED -	REVISED -		CONTRACT NO. 70533				
PLOT SCALE = 20.0000' / in.	PLOT DATE = 3/21/2018	DATE -	REVISED -		ILLINOIS FED. AID PROJECT				
MODEL NAME =									

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DATE	
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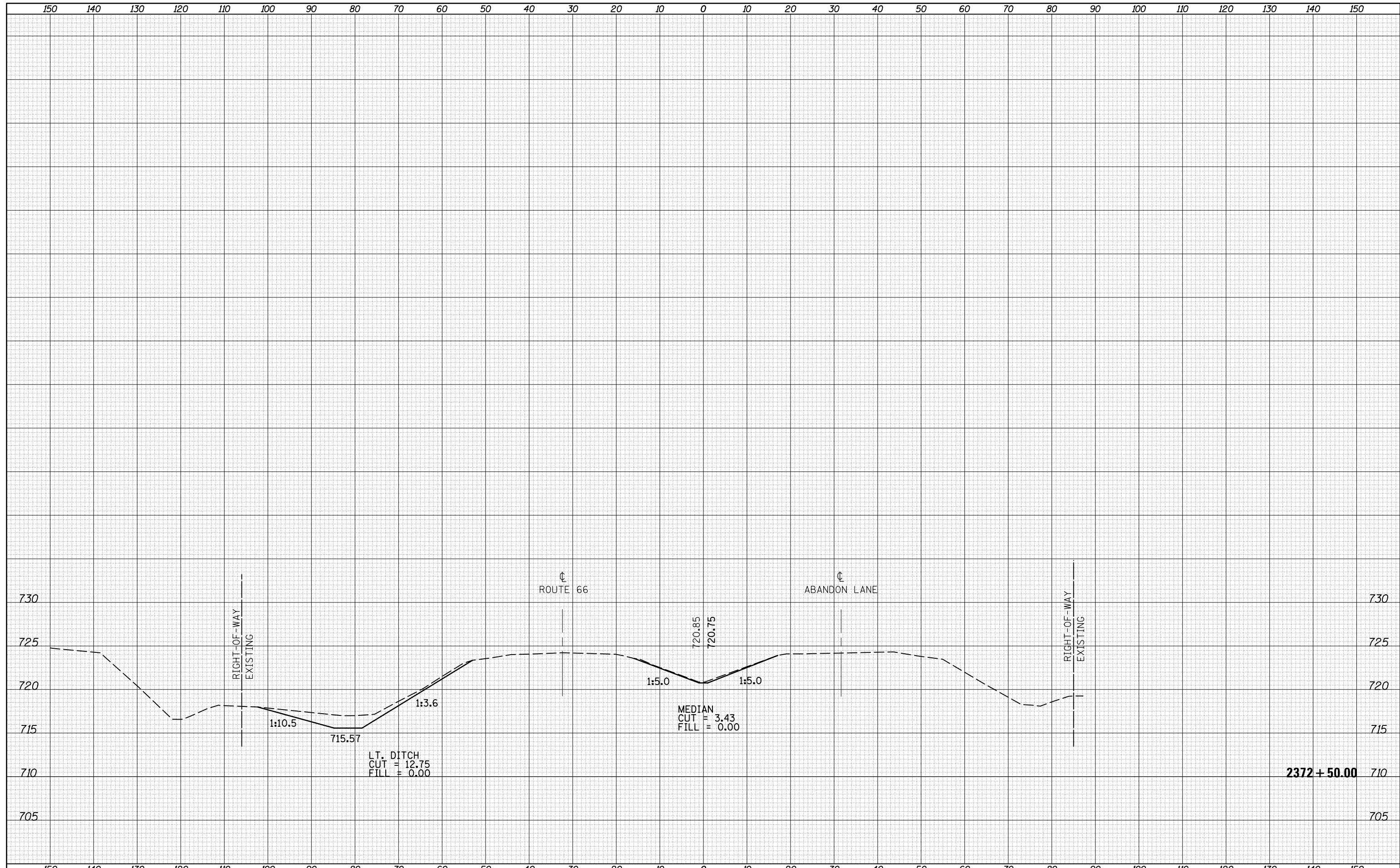


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\570533-shr-xs-mainline.dgn	DRAWN	REVISED -	REVISED -			294	14 BR & DM	MCLEAN	87	69
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70533				
PLOT DATE = 3/21/2018	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 16 OF 19 SHEETS STA. 2372+00.00 TO STA. 2372+25.00

DATE	
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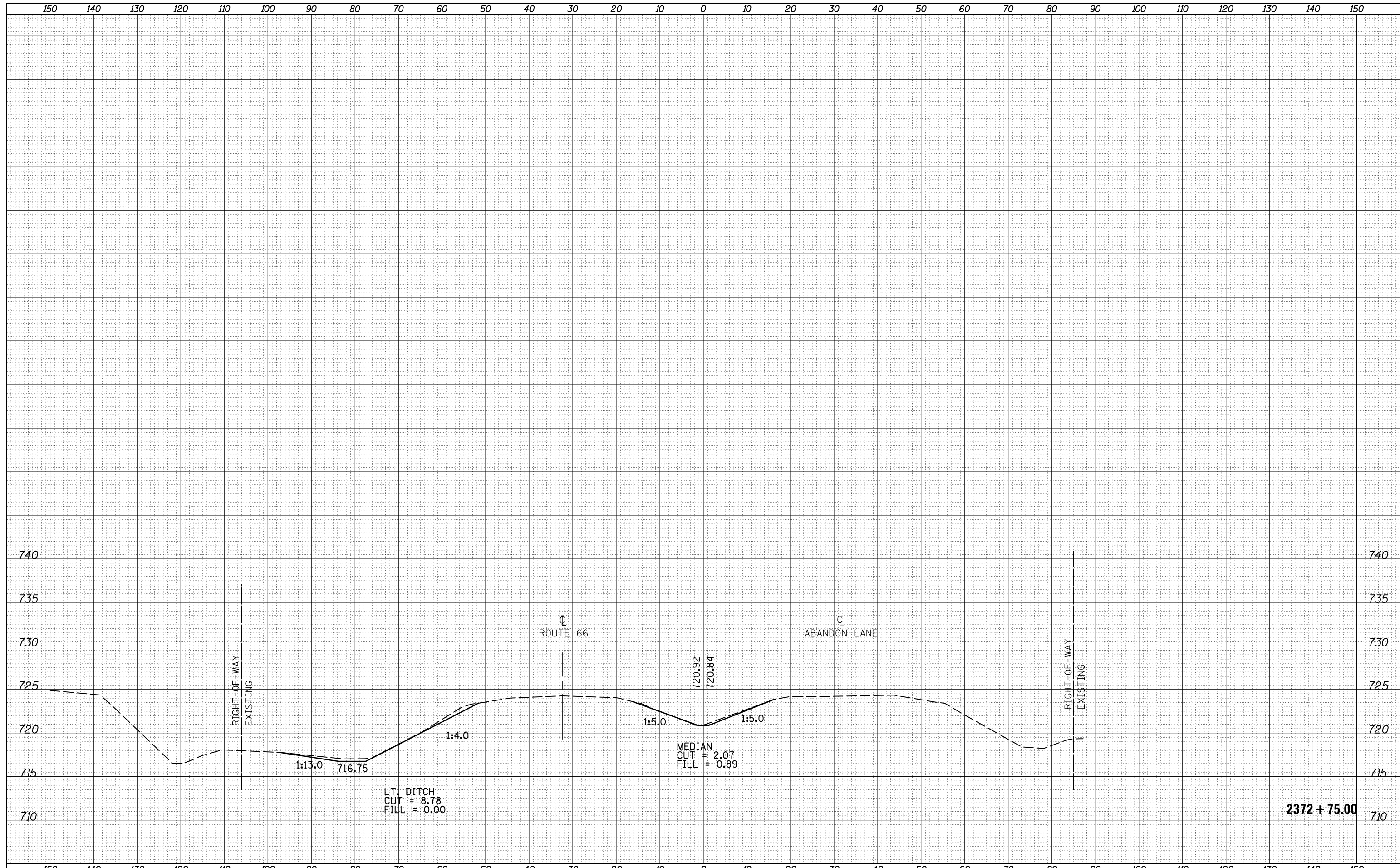
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NOTE BOOK	
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\570533-shr-xs-mainline.dgn	DRAWN	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	70
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
*MODELNAME*	DATE = 3/21/2018	DATE -	REVISIED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET 17 OF 19 SHEETS	STA. 2372+50.00 TO STA. 2372+50.00				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

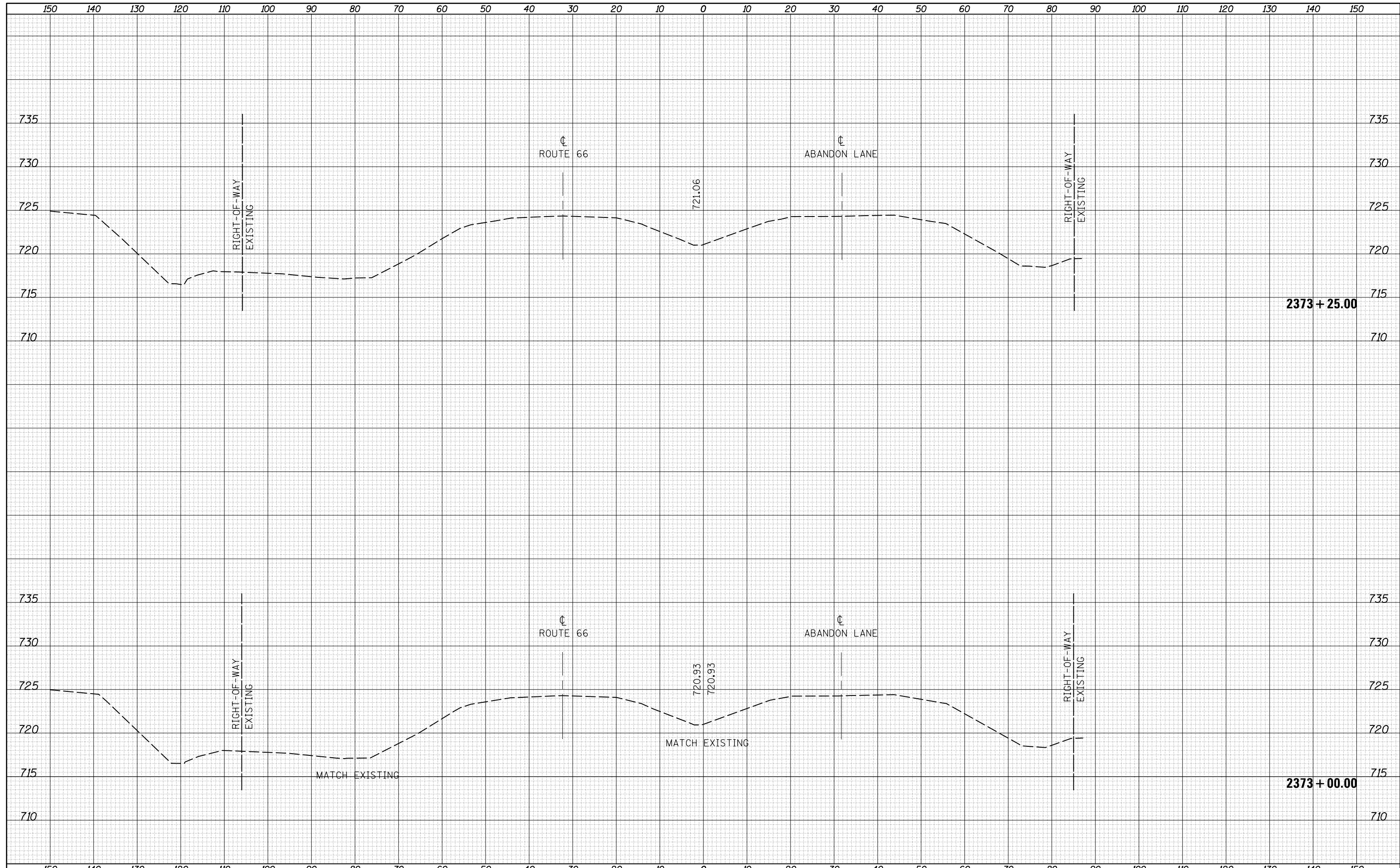
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NOTE BOOK	PLOTTED
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-mainline.dgn	DRAWN	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	71
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
DATE = 3/21/2018	DATE -	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
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ORIGINAL SURVEY	SURVEYED
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISOR -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>S.N. 057-2040</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\570533-shr-xs-mainline.dgn	DRAWN	REVISOR -	REVISOR -			294	14 BR & DM	MCLEAN	87	72
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISOR -	REVISOR -			CONTRACT NO. 70533				
DATE = 3/21/2018	DATE -	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT				
SCALE:				SHEET 19 OF 19 SHEETS		STA. 2373+00.00 TO STA. 2373+25.00				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

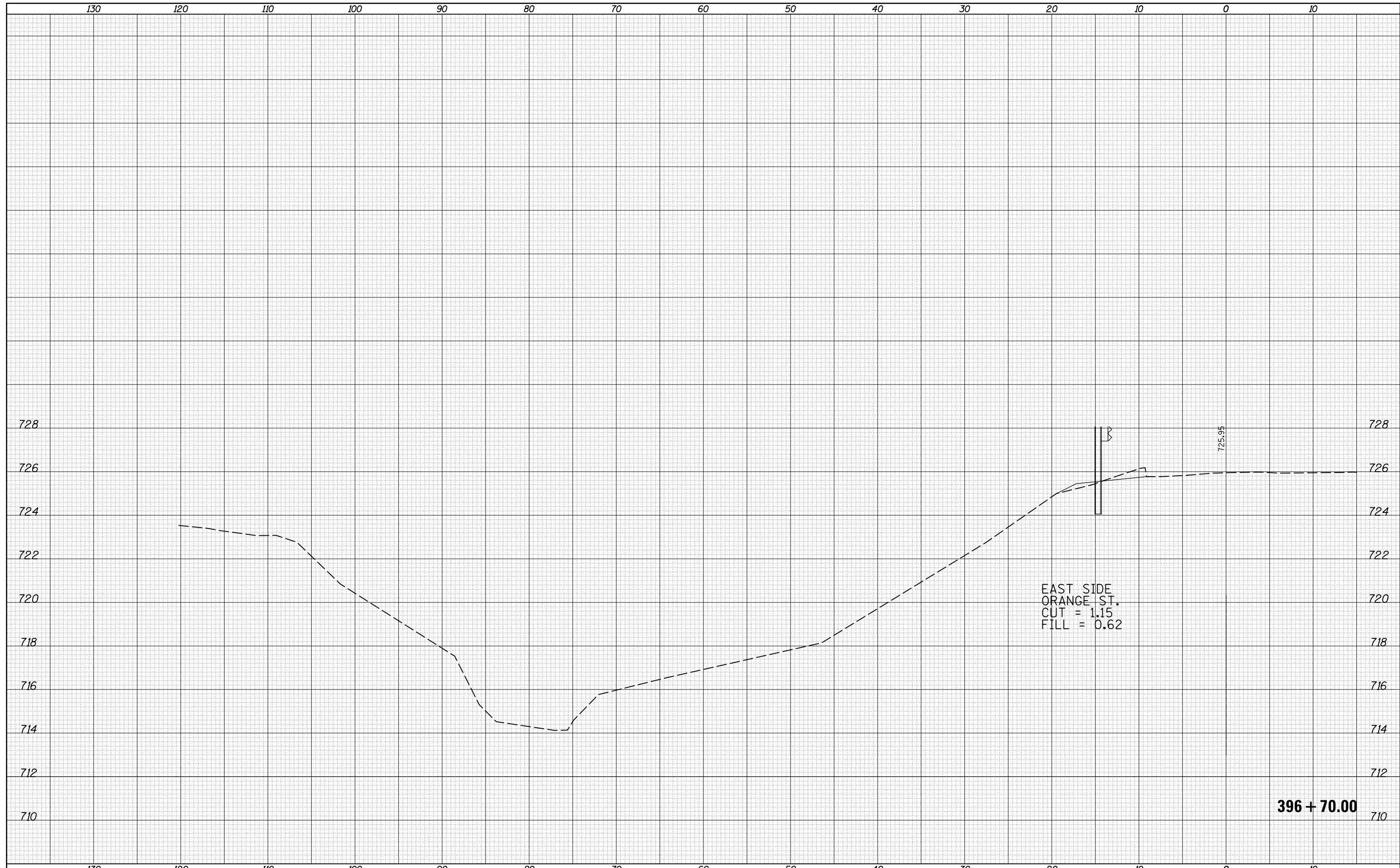
ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISÉ -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn	DRAWN	REVISÉ -	REVISÉ -			294	14 BR & DM	MCLEAN	87	73
\$MODELNAME\$	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISÉ -			CONTRACT NO. 70533				
	PLOT DATE = 3/21/2018	DATE -	REVISÉ -			ILLINOIS FED. AID PROJECT				
SCALE:						SHEET 1 OF 15 SHEETS STA. 396+60.00 TO STA. 396+60.00				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = p:\11084EBIDINTEG\Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn

USER NAME = BakerCR	DESIGNED -	REVISIED -
PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -
PLLOT DATE = 3/21/2018	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ORANGE ST.  
CROSS SECTION**

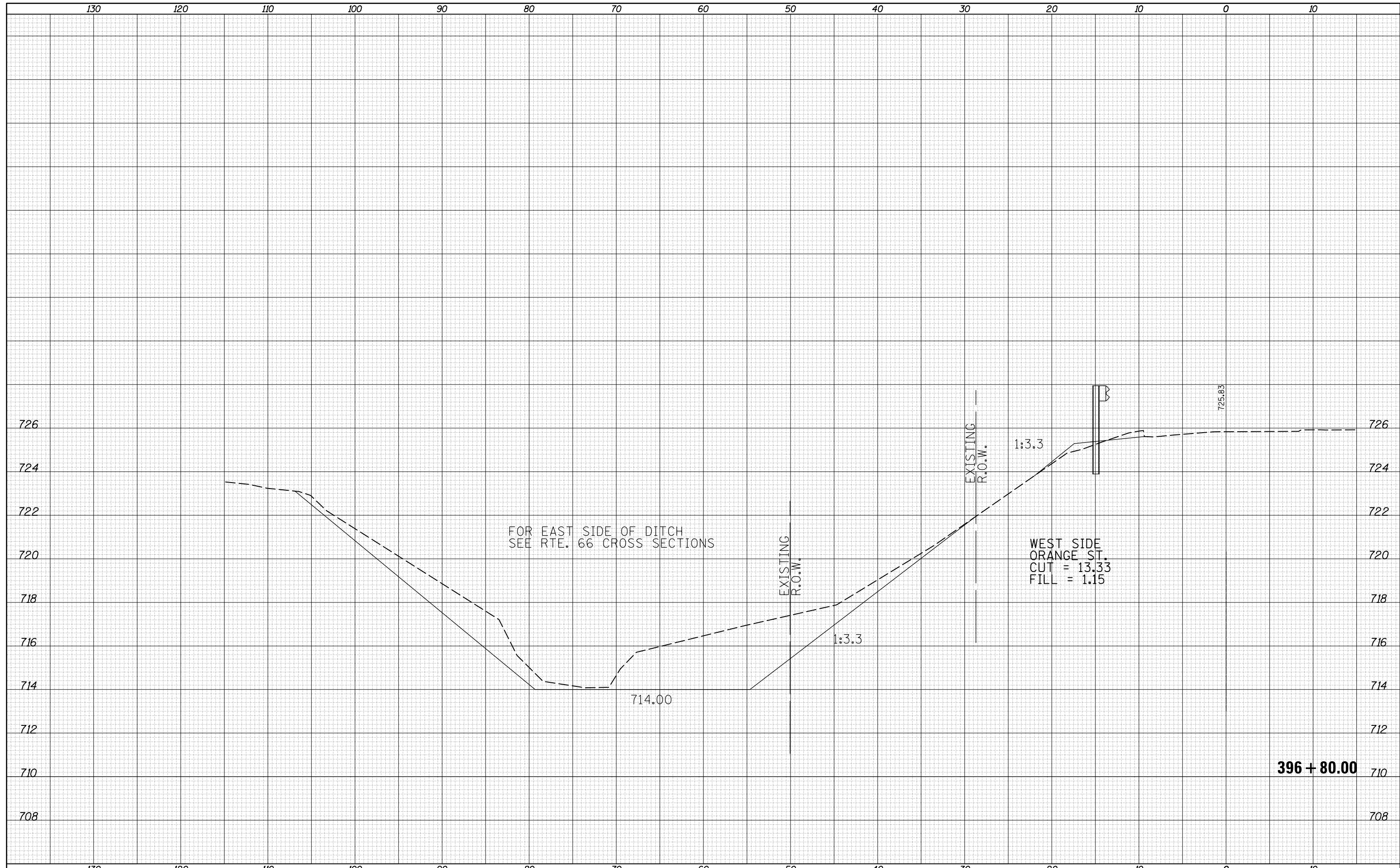
SCALE: SHEET 2 OF 15 SHEETS STA. 396+70.00 TO STA. 396+70.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	74
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70533	

**396 + 70.00**

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
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TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

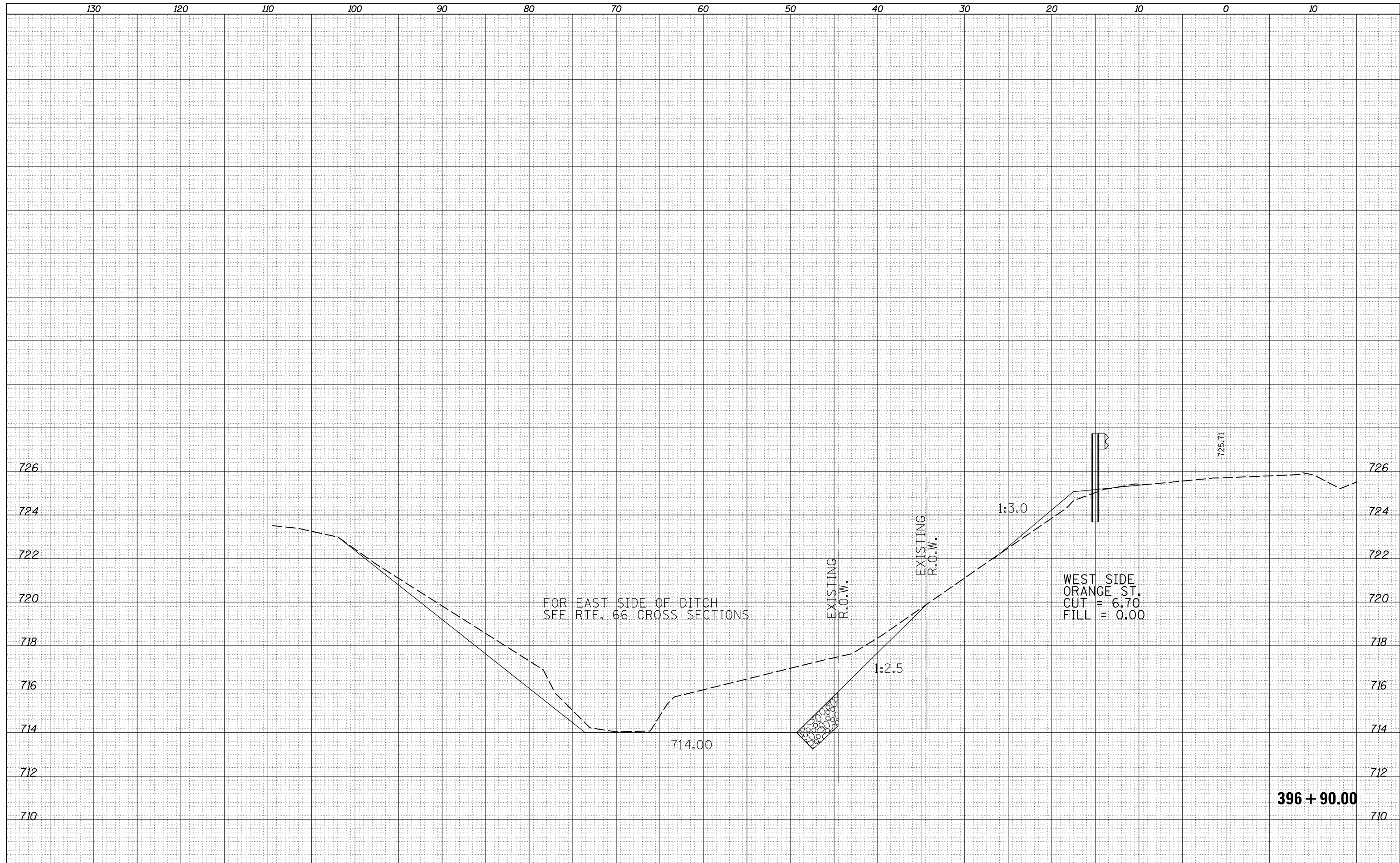


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	75
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533		ILLINOIS FED. AID PROJECT		

SCALE: SHEET 3 OF 15 SHEETS STA. 396+80.00 TO STA. 396+80.00

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

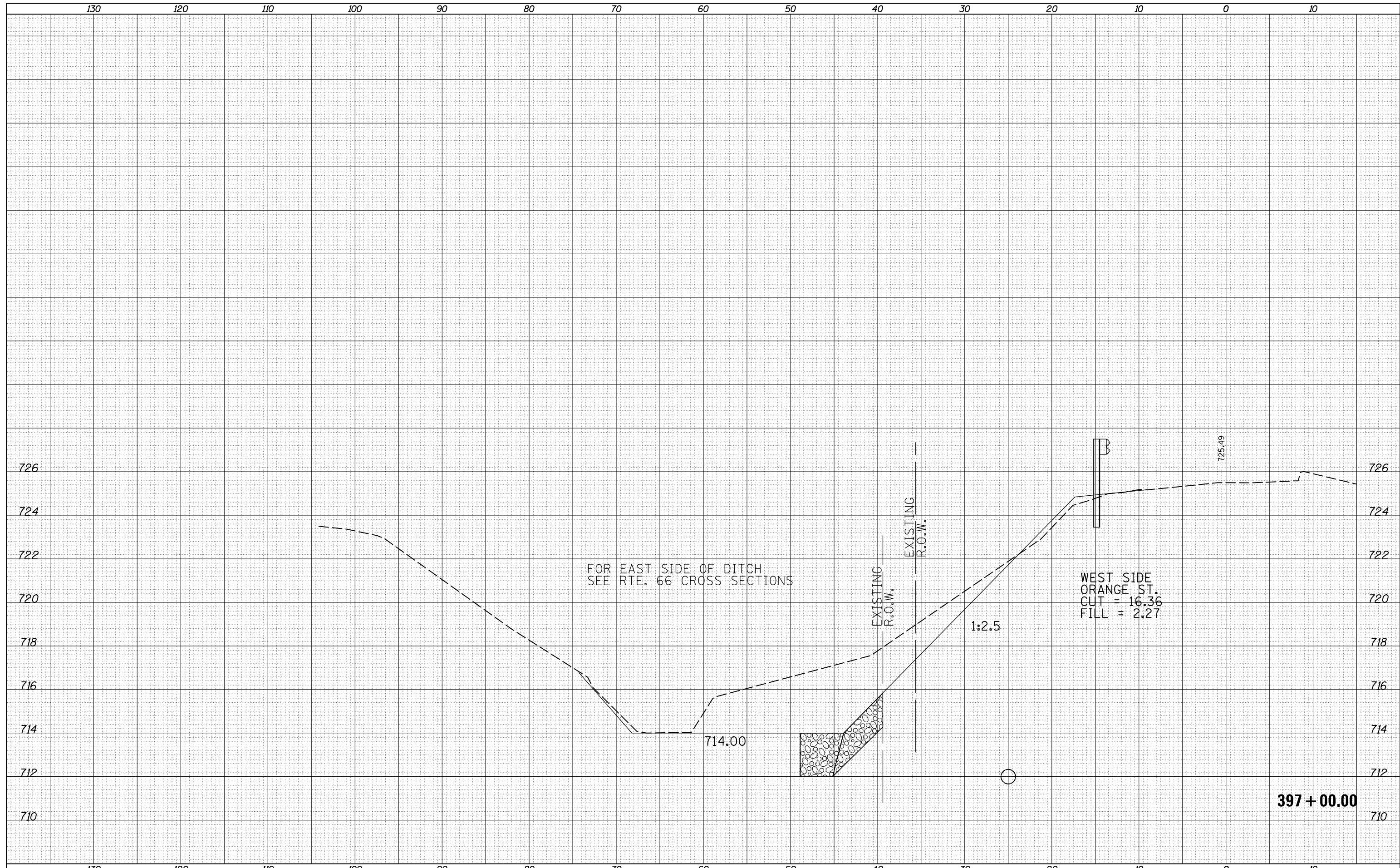
DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -			294	14 BR & DM	MCLEAN	87	76
*MODELNAME*	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT	
SCALE:						SHEET 4 OF 15 SHEETS STA. 396+90.00 TO STA. 396+90.00				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

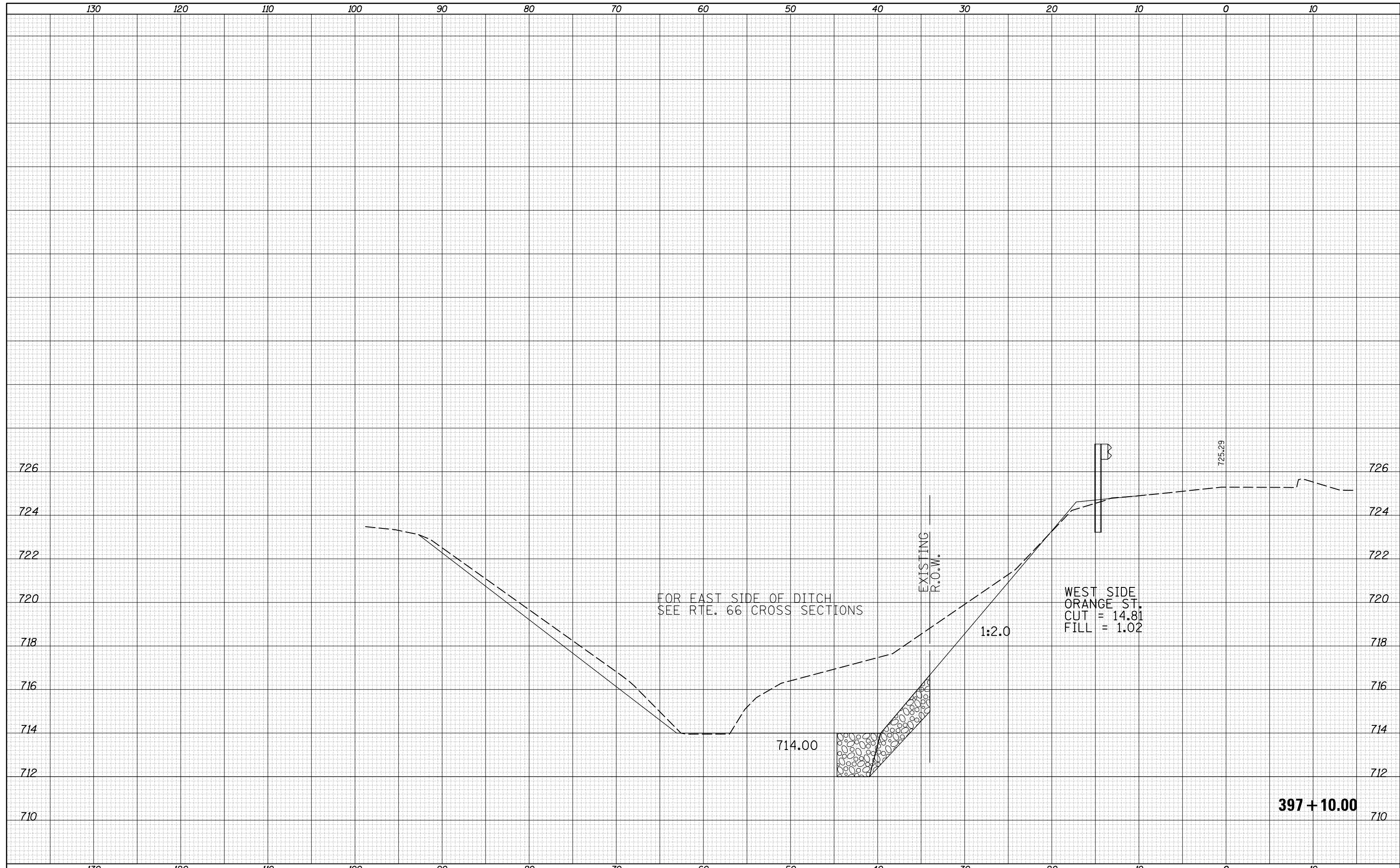


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	77
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533		ILLINOIS FED. AID PROJECT		

SCALE: SHEET 5 OF 15 SHEETS STA. 397+00.00 TO STA. 397+00.00

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME = p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn

USER NAME = BakerCR	DESIGNED -	REVISÉ -
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISÉ -
PLOT DATE = 3/21/2018	DATE -	REVISÉ -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

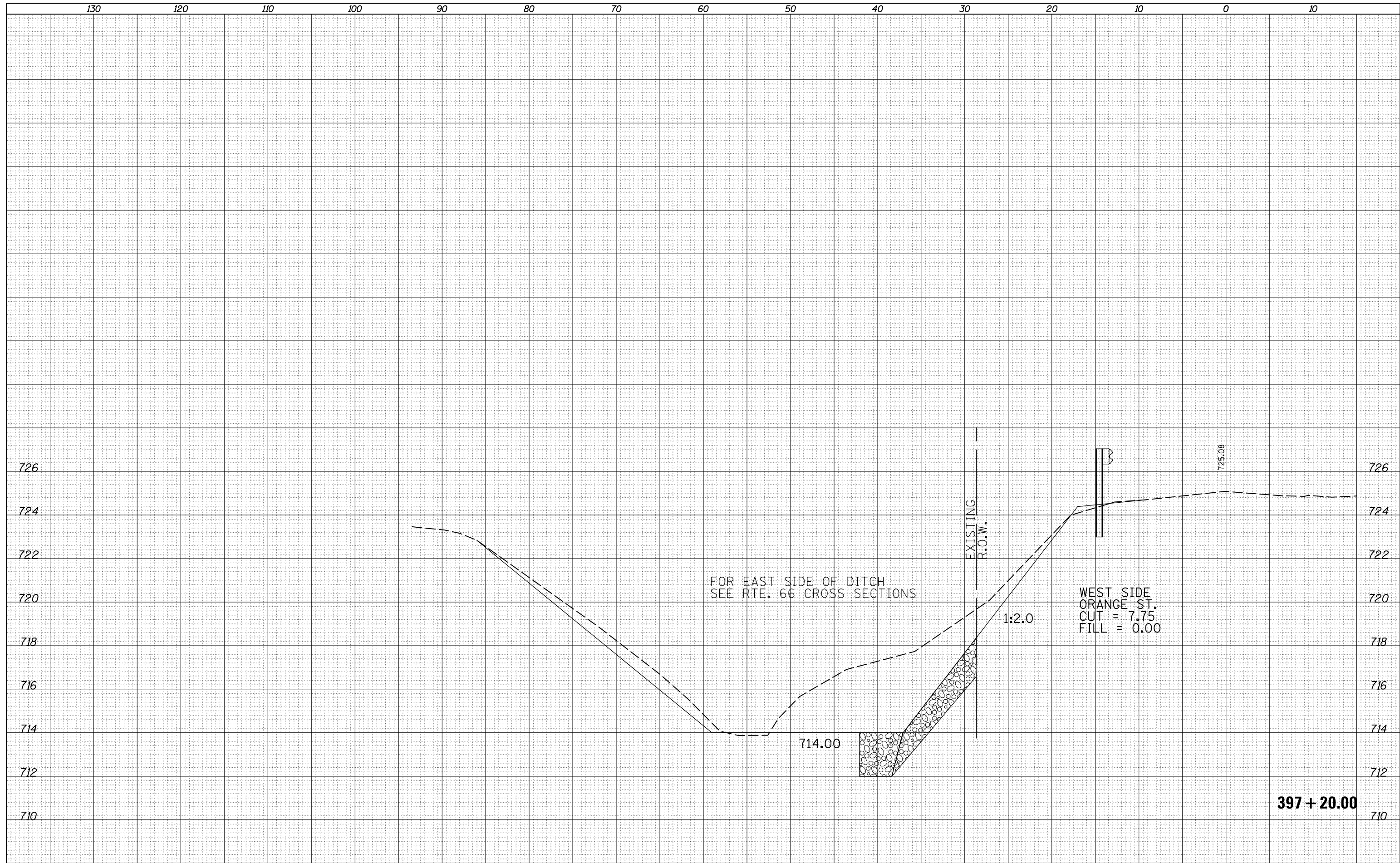
**ORANGE ST.  
CROSS SECTION**

SCALE: SHEET 6 OF 15 SHEETS STA. 397+10.00 TO STA. 397+10.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
294	14 BR & DM	MCLEAN	87	78
CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

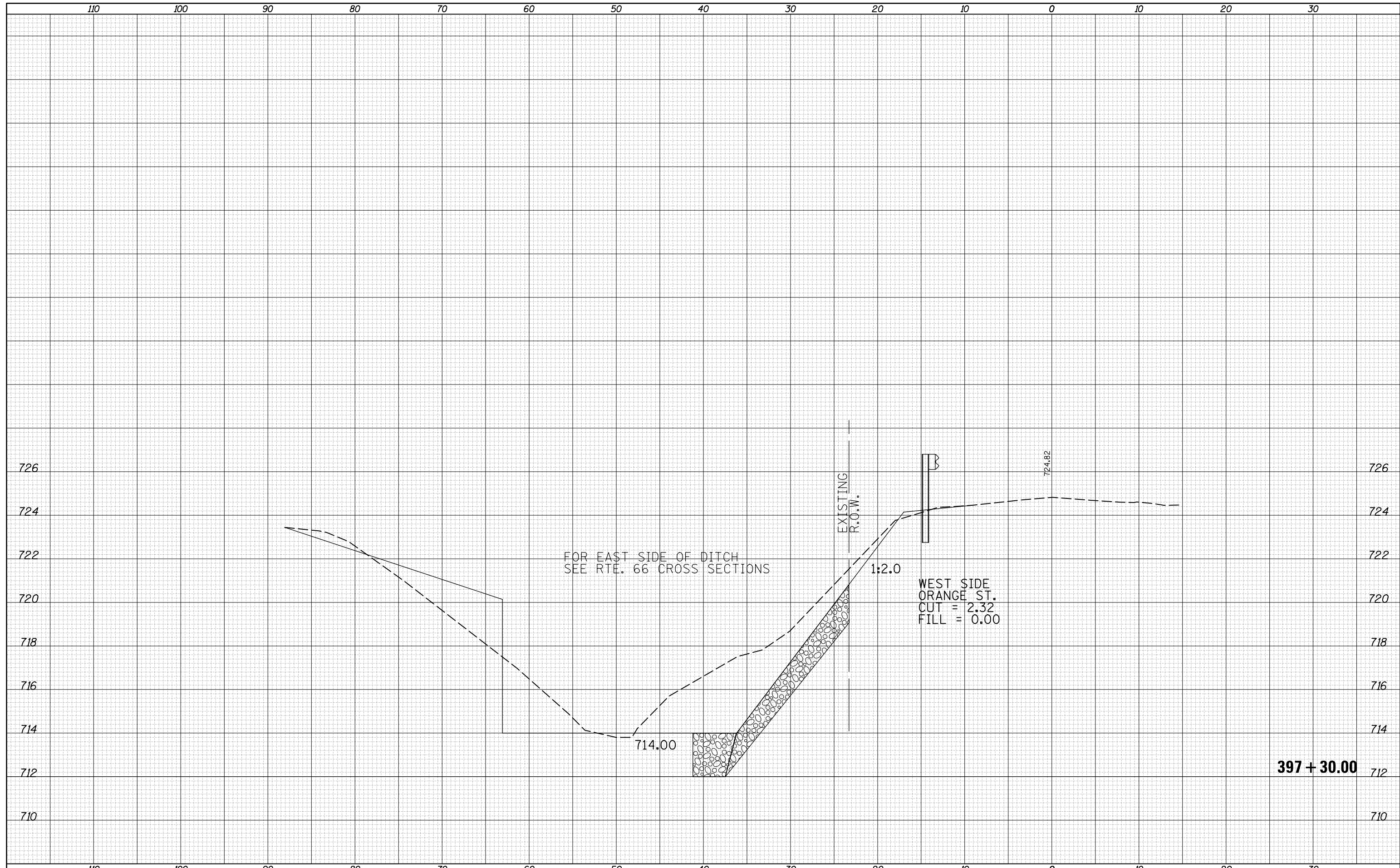


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	79
*MODELNAME*	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 7 OF 15 SHEETS STA. 397+20.00 TO STA. 397+20.00

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

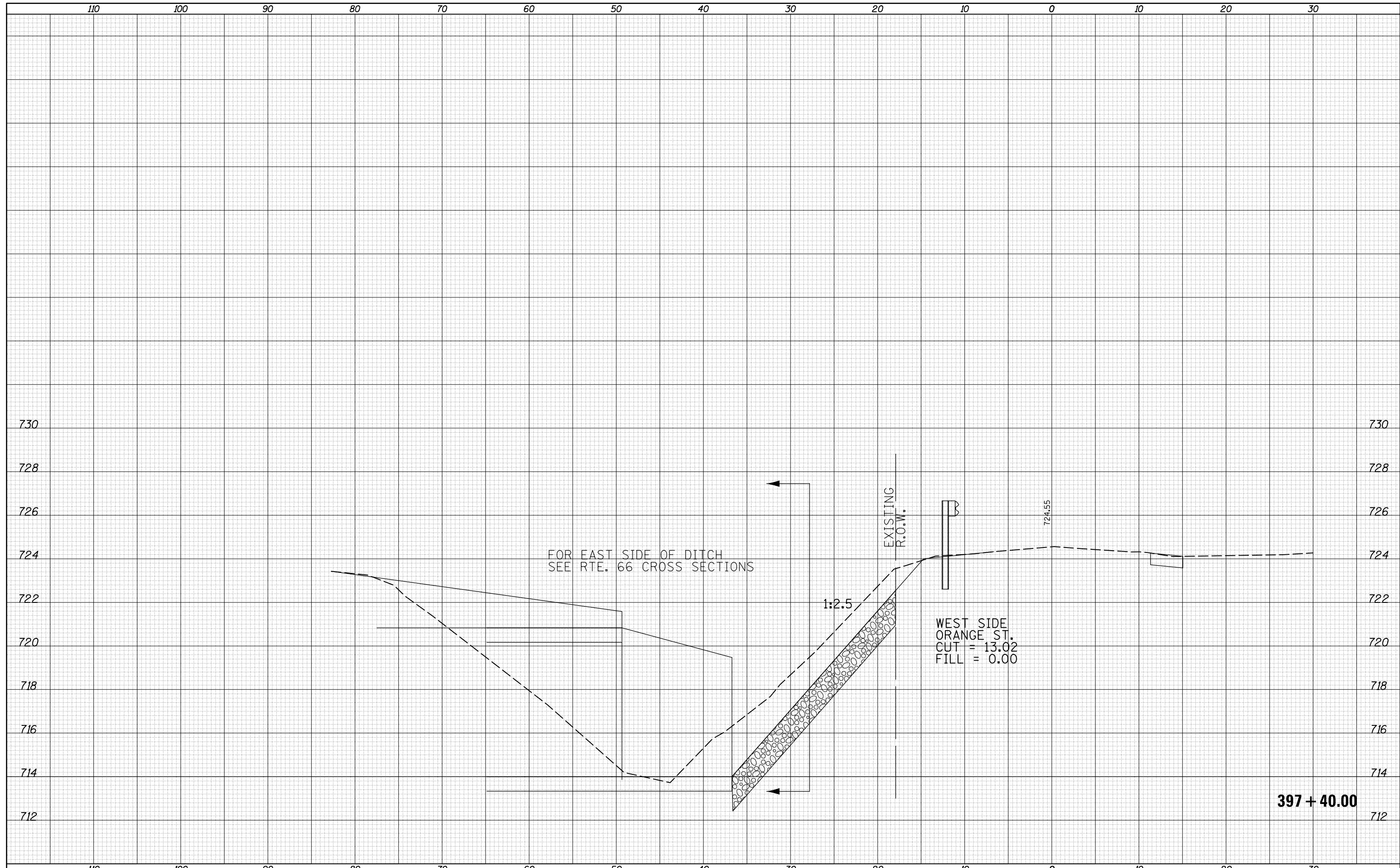


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn	DRAWN	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	80
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
*MODELNAME*	DATE -	REVISIED -	REVISIED -			SCALE:	SHEET 8	OF 15 SHEETS	STA. 397+30.00	TO STA. 397+30.00



DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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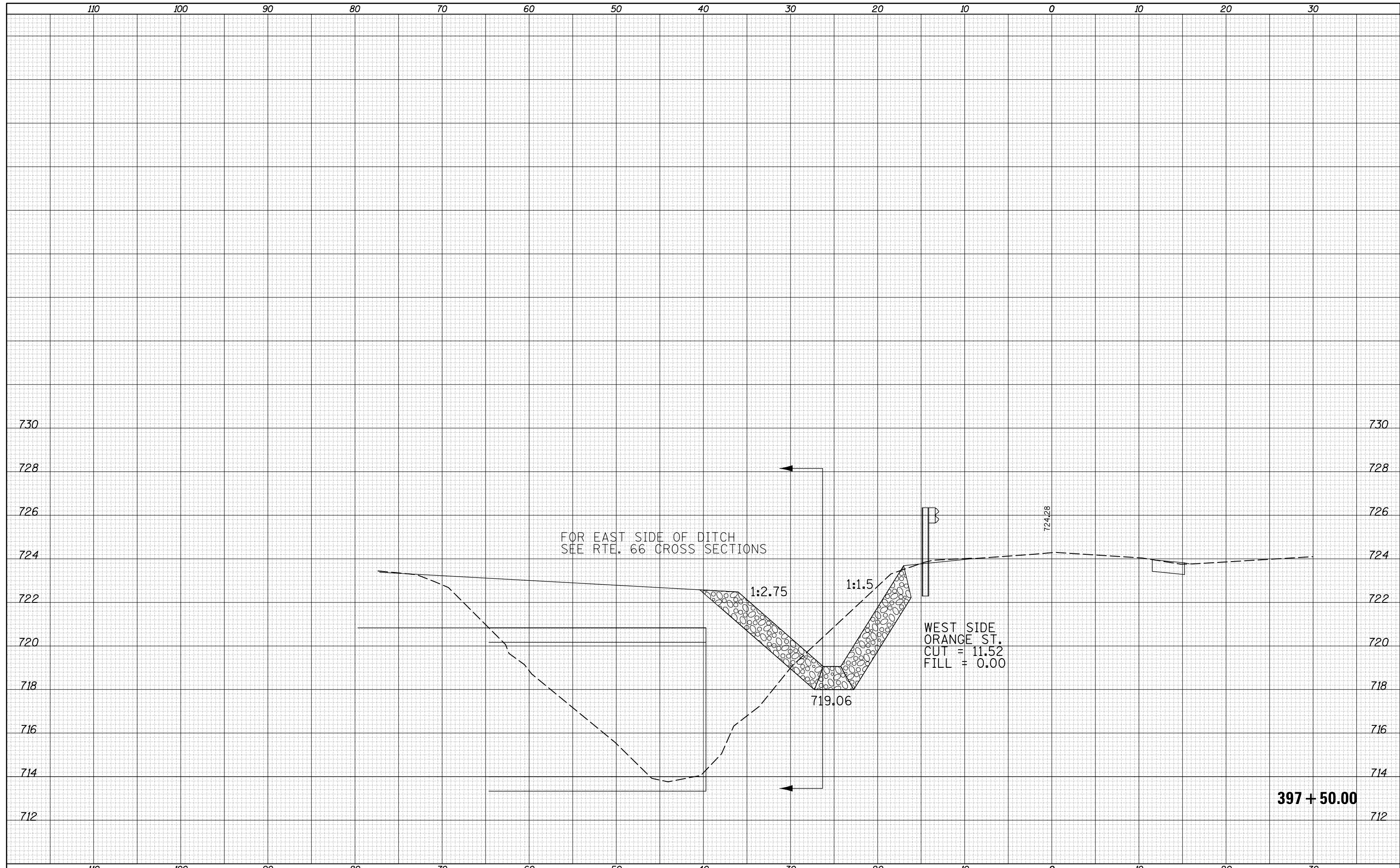
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	81
*MODELNAME*	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT	
SCALE:		SHEET 9 OF 15 SHEETS				STA. 397+40.00 TO STA. 397+40.00				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

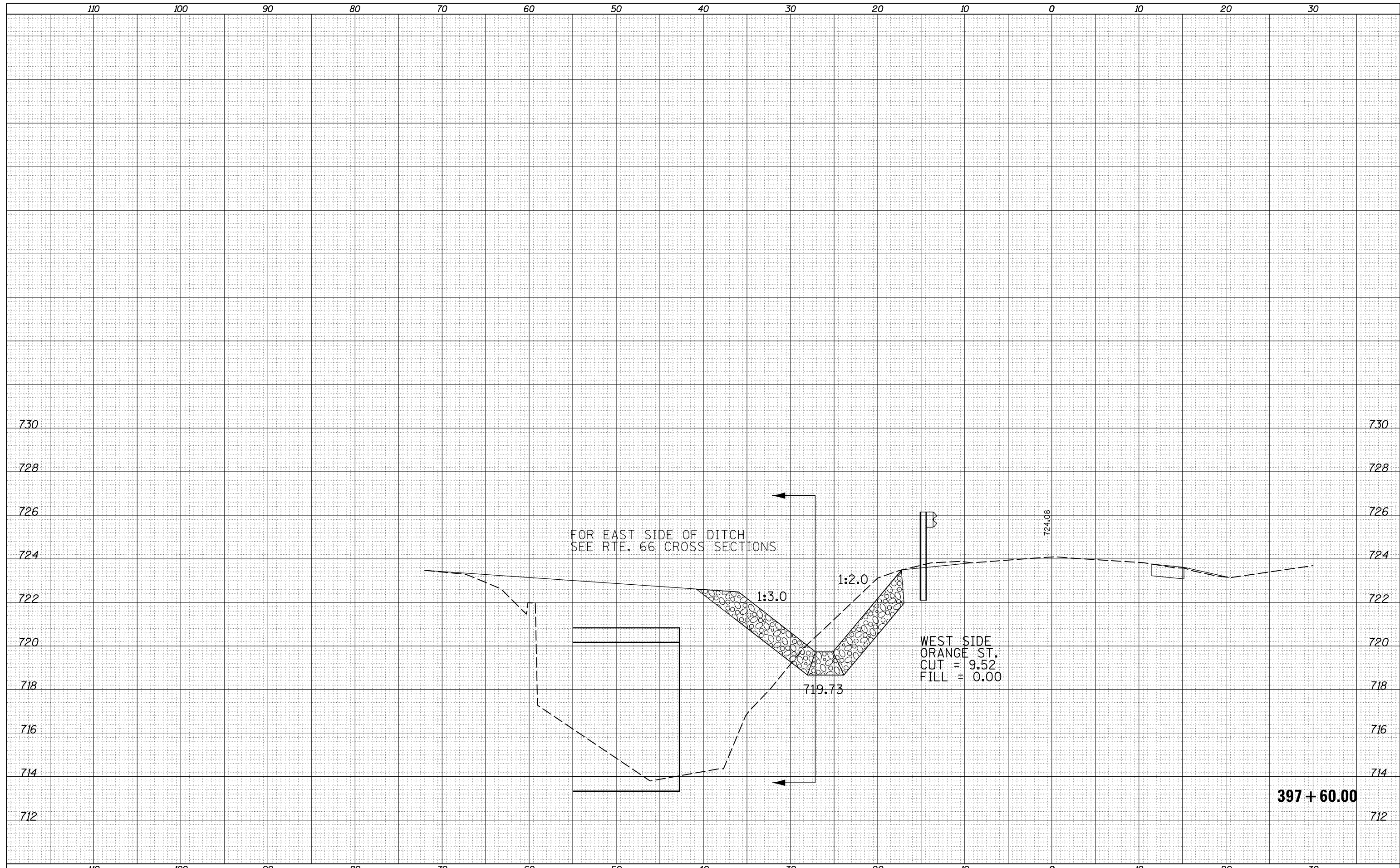
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000 / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	82
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT	
SCALE:		SHEET 10 OF 15 SHEETS				STA. 397+50.00 TO STA. 397+50.00				

DATE	
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SURVEYED	
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FINAL SURVEY	
NOTE BOOK	
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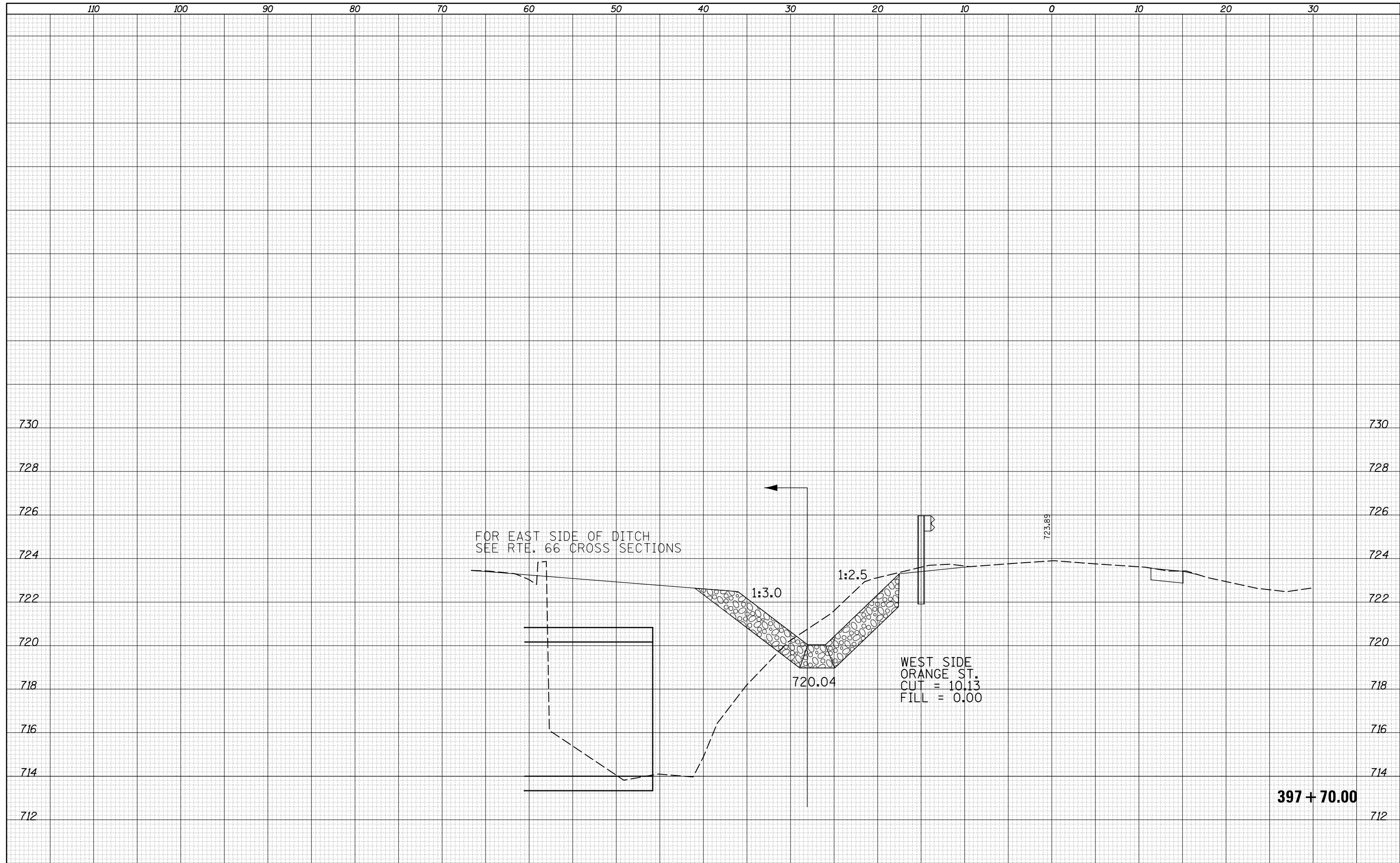
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	83
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533			ILLINOIS FED. AID PROJECT	
SCALE:		SHEET 11 OF 15 SHEETS				STA. 397+60.00 TO STA. 397+60.00				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

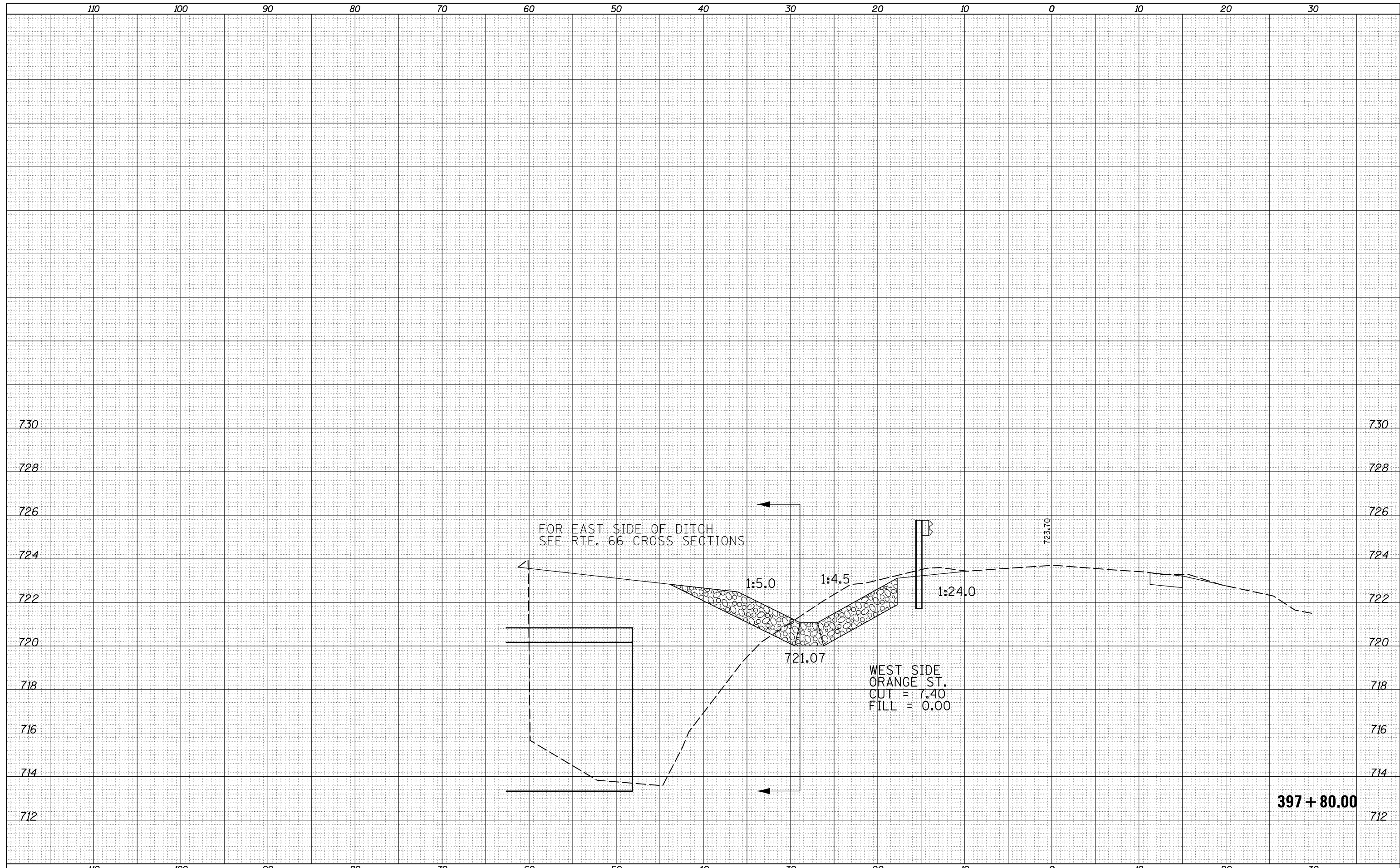
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	SCALE: SHEET 12 OF 15 SHEETS STA. 397+70.00 TO STA. 397+70.00	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -				294	14 BR & DM	MCLEAN	87	84
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISIED -				CONTRACT NO. 70533				
							ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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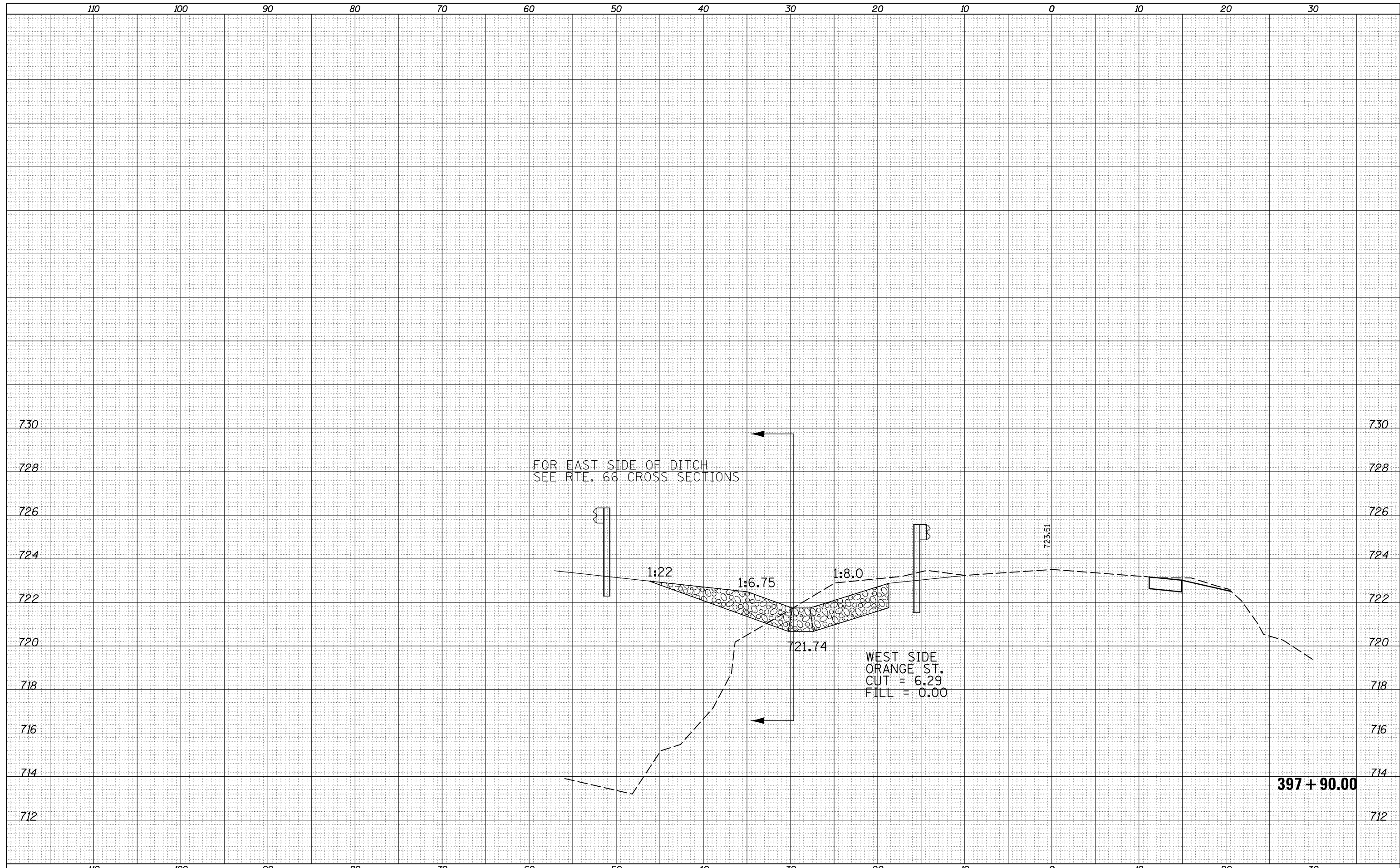
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\Design\0570533-shr-xs-orange.dgn	DRAWN	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	85
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
\$MODELNAME\$	DATE -	REVISIED -	REVISIED -			SCALE:	SHEET 13	OF 15	SHEETS	STA. 397+80.00

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

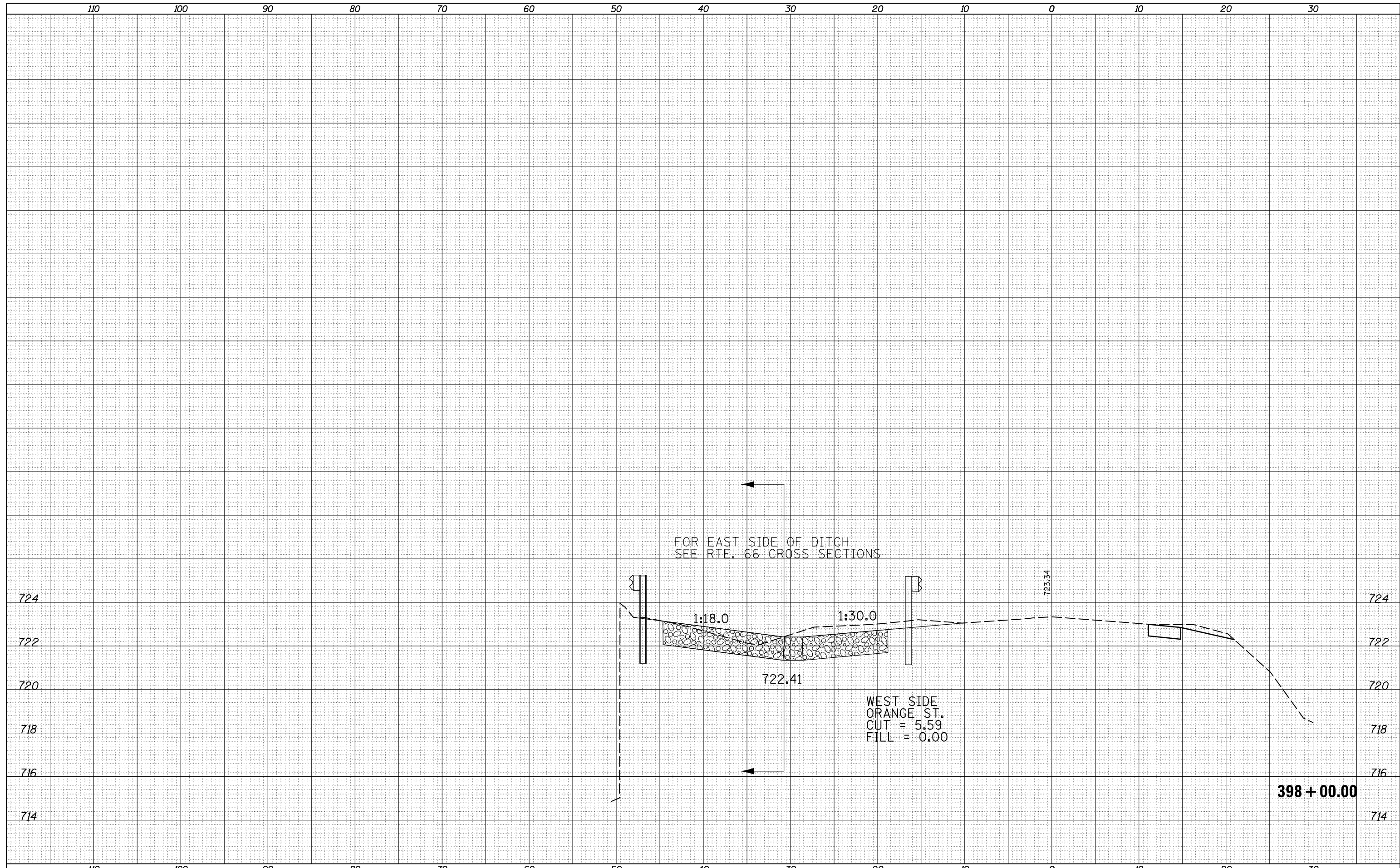
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\Design\0570533-shr-xs-orange.dgn	DRAWN	REVISIED -	REVISIED -			294	14 BR & DM	MCLEAN	87	86
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 70533				
*MODELNAME*	DATE -	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT				
SCALE:						SHEET 14 OF 15 SHEETS STA. 397+90.00 TO STA. 397+90.00				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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	AREAS CHECKED



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ORANGE ST.</b> <b>CROSS SECTION</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0505206\CAD\DRAWING\0570533-shr-xs-orange.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			294	14 BR & DM	MCLEAN	87	87	
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISIED -			CONTRACT NO. 70533		ILLINOIS FED. AID PROJECT			
SCALE:		SHEET 15 OF 15 SHEETS				STA. 398+00.00 TO STA. 398+00.00					