

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-10

06-15-2018 LETTING ITEM 041

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	1
		ILLINOIS	CONTRACT NO. 70620	

LOCATION	
CULVERT NO. 1	
EXISTING: S.N. 010-8079	PROPOSED: S.N. 010-8149
EXISTING: STA. 828+24.00	PROPOSED: STA. 828+24.00
EXISTING SIZE: 8'x3'x56'	PROPOSED SIZE: DOUBLE 8'x3'x51'
CULVERT NO. 2	
EXISTING: S.N. 010-8080	PROPOSED: S.N. 010-8150
EXISTING: STA. 887+45.00	PROPOSED: STA. 887+53.00
EXISTING SIZE: 6'x3'x81'	PROPOSED SIZE: 12'x3'x82'
CULVERT NO. 3	
EXISTING: S.N. 010-8081	PROPOSED: S.N. 010-8153
EXISTING: STA. 900+82.00	PROPOSED: STA. 900+82.00
EXISTING SIZE: 7'x3'x69'	PROPOSED SIZE: 12'x5'x50'

CURRENT TRAFFIC DATA				
F.A.P. ROUTE 719 / (U.S. 150)				
	ADT (2017)	PV %	SU %	MU %
CULVERT NO. 1	= 7,300	89.7	6.2	4.1
CULVERT NO. 2	= 5,000	89.0	5.5	5.5
CULVERT NO. 3	= 5,000	89.0	5.5	5.5

TRAFFIC DATA LOCATION	
F.A.P. ROUTE 719 / (U.S. 150)	
CULVERT NO. 1	= RISING ROAD TO STALEY ROAD
CULVERT NO. 2 & 3	= STALEY ROAD TO DUNCAN ROAD

DESIGN DESIGNATION
 OTHER PRINCIPLE ARTERIAL

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 = HENSLEY

PROJECT ENGINEER: JASON STULTS
 SQUAD LEADER: GREG EAGLIN
 DESIGNER: CARL BAKER
 PHONE NUMBER: (217)-465-4181

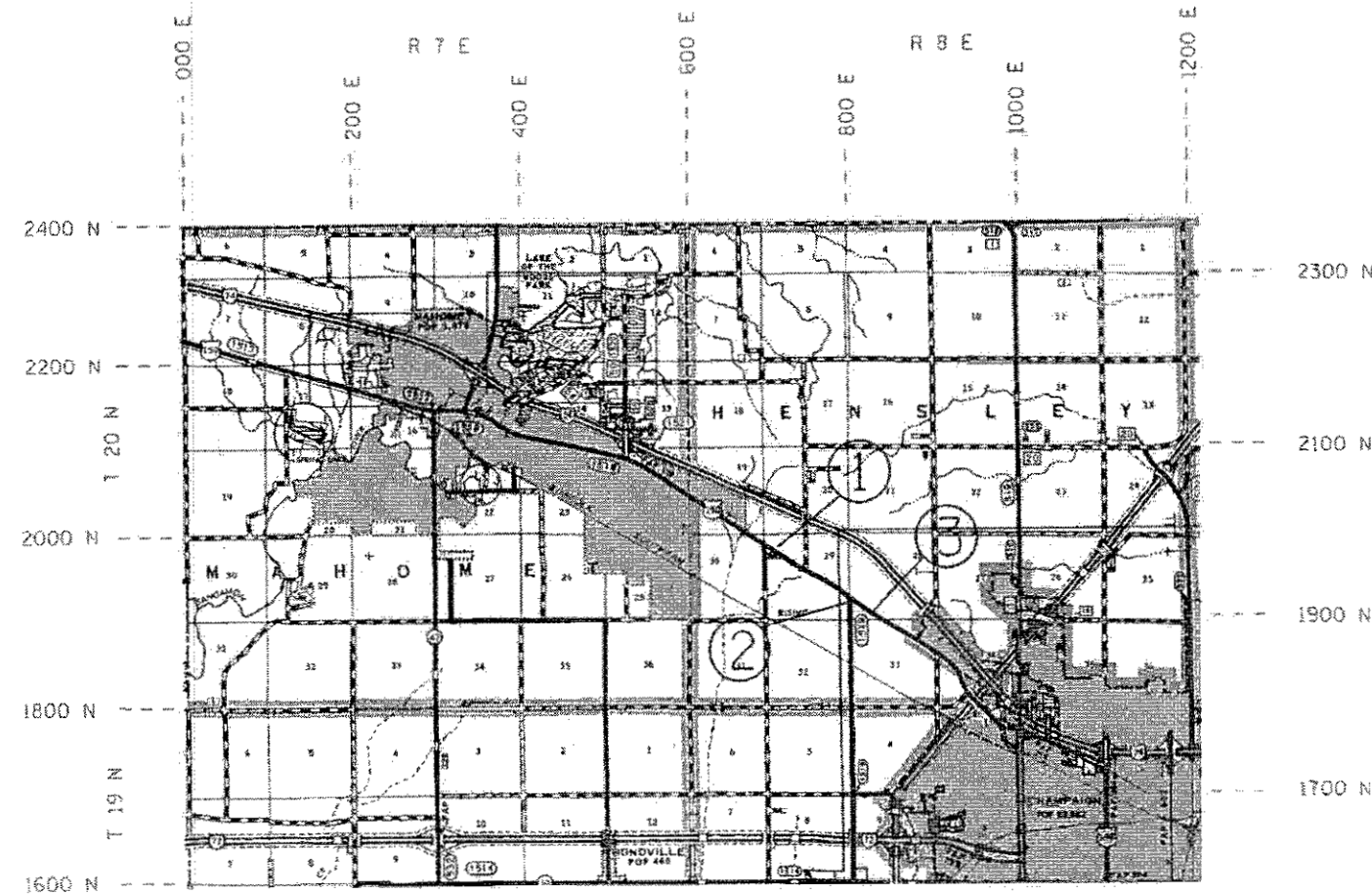
CONTRACT NO. 70620

PROPOSED HIGHWAY PLANS

FAP ROUTE 719 / (U.S. 150)
 SECTION 13CR
 PROJECT: STP-ENDW(897)
 CULVERT REPLACEMENT
 CHAMPAIGN COUNTY

C-95-147-06

DITCH SE OF MAHOMET & DITCH NW OF CHAMPAIGN



GROSS LENGTH = 116.89 FT. = 0.022 MILE
 NET LENGTH = 116.89 FT. = 0.022 MILE



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 20 2018
Kenneth A. Saret
 REGION THREE ENGINEER

May 11 2018
EA, ETK
 ENGINEER OF DESIGN AND ENVIRONMENT

May 11 2018
Paul P. Ch...
 DIRECTOR OF HIGHWAY PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

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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
285001-02	FABRIC FORMED CONCRETE REVETMENT MATS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-08	CLASS B PATCHES
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
604001-04	FRAME AND LIDS, TYPE 1
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
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
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

FILE NAME *	USER NAME = Baker-CR	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS	F.A.P. RTE. 719	SECTION 13CR	COUNTY CHAMPAIGN	TOTAL SHEETS 109	SHEET NO. 2
MODELNAME	PLOT SCALE = 40,0000' / 1" =	CHECKED -	REVISED	SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 70620		

GENERAL NOTES

G.N. -100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N. -100A

ELECTRONIC FILES AND / OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N. -105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. -107.37

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

G.N. -250C

SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N. -280

TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G N. -280A

THE VARIOUS MULCH ITEMS IN THE PLANS INCLUDE QUANTITIES FOR TEMPORARY MULCH FOR EROSION CONTROL. THE TEMPORARY MULCH INCLUDES MAINTENANCE AND REMOVAL IF NECESSARY, PER THE REQUIREMENTS OF ARTICLE 280 OF THE STANDARD SPECIFICATIONS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SOME OR ALL OF THE MULCH USED AS TEMPORARY EROSION CONTROL WILL BE DELETED IF IT IS NOT NECESSARY DUE TO ESTABLISHMENT OF PERMANENT SEEDING.

G.N. -540

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTION AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N. -542

BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N. -542.07

AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

G.N. -550

BEFORE ORDERING STORM SEWER, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N. -781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAIL SHOWN IN THE PLANS. IF THERE IS ANY DESCREPCANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N. -1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N. -Z0038

AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

COMMITMENTS:

NO COMMITMENTS

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pm\11084EB\INTEC\illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\05700000\Design\0570620-aht-gennote.dgn		DRAWN	REVISED			719	13CR	CHAMPAIGN	109	3
#MODELNAME#	PLOT SCALE = 40,0000' / 1" =	CHECKED -	REVISED -			CONTRACT NO. 70620				
	PLOT DATE = 3/21/2018	DATE -	REVISED -			SCALE:	SHEET 1	OF 1	SHEETS	STA.

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 719 / U.S. 150 CHAMPAIGN COUNTY	FAP 719 / U.S. 150 CHAMPAIGN COUNTY
	S.N. 010-8150 S.N. 010-8153 RURAL 2-LANE	S.N. 010-8149 URBAN 2-LANE
FUNDING BREAK OUT:	80% FED 20% STATE	80% FED 20% STATE
CONSTRUCTION TYPE CODE:	0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	658.0	555.0	103.0
20200500	EARTH EXCAVATION (WIDENING)	CU YD	137.0	86.0	51.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	663.0	469.0	194.0
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	340.0	240.0	100.0
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.00	0.25
25000350	SEEDING, CLASS 7	ACRE	1.25	1.00	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	100.0	73.0	27.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100.0	73.0	27.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	100.0	73.0	27.0
25100115	MULCH, METHOD 2	ACRE	4.5	3.0	1.5
25200110	SODDING, SALT TOLERANT	SQ YD	834.0	0.0	834.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	116.0	81.0	35.0
28000305	TEMPORARY DITCH CHECKS	FOOT	290.0	200.0	90.0
28000400	PERIMETER EROSION BARRIER	FOOT	640.0	592.0	48.0

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* SPECIALTY ITEM

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAP 719 / U. S. 150 CHAMPAIGN COUNTY FAP 719 / U. S. 150 CHAMPAIGN COUNTY

S.N. 010-8150 S.N. 010-8149
S.N. 010-8153
RURAL 2-LANE URBAN 2-LANE

FUNDING BREAK OUT: 80% FED 80% FED
20% STATE 20% STATE

CONSTRUCTION TYPE CODE: 0004 0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
28000500	INLET AND PIPE PROTECTION	EACH	3.0	3.0	0.0
28100105	STONE RIPRAP, CLASS A3	SQ YD	161.0	161.0	0.0
28100201	STONE RIPRAP, CLASS A1	TON	223.0	130.0	93.0
28200200	FILTER FABRIC	SQ YD	161.0	161.0	0.0
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SQ YD	289.0	105.0	184.0
42000060	WELDED WIRE REINFORCMENT	SQ YD	465.0	326.0	139.0
44200944	CLASS B PATCHES, TYPE IV, 8"	SQ YD	465.0	326.0	139.0
44213200	SAW CUTS	FOOT	555.0	391.0	164.0
44213204	TIE BARS 3/4"	EACH	57.0	40.0	17.0
48100100	AGGREGATE SHOULDERS, TYPE A	TON	249.0	107.0	142.0
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0	0.0	1.0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0	1.0	0.0
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1.0	1.0	0.0
50105220	PIPE CULVERT REMOVAL	FOOT	248.0	210.0	38.0

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 719 / U.S. 150 CHAMPAIGN COUNTY	FAP 719 / U.S. 150 CHAMPAIGN COUNTY
	S.N. 010-8150 S.N. 010-8153 RURAL 2-LANE	S.N. 010-8149 URBAN 2-LANE
FUNDING BREAK OUT:	80% FED 20% STATE	80% FED 20% STATE
CONSTRUCTION TYPE CODE:	0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
51500100	NAME PLATES	EACH	3.0	2.0	1.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2.0	0.0	2.0
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2.0	2.0	0.0
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2.0	2.0	0.0
54010803	PRECAST CONCRETE BOX CULVERTS 8' x 3'	FOOT	96.0	0.0	96.0
54011203	PRECAST CONCRETE BOX CULVERTS 12' x 3'	FOOT	56.0	56.0	0.0
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2.0	2.0	0.0
54261718	STEEL FLARED END SECTIONS 18"	EACH	1.0	1.0	0.0
542A0229	PIPE CULVERT, CLASS A, TYPE 1 24"	FOOT	9.0	9.0	0.0
542D0223	PIPE CULVERT, CLASS D, TYPE 1 18"	FOOT	92.0	92.0	0.0
60500060	REMOVING INLETS	EACH	2.0	0.0	2.0
61101011	STORM SEWER PROTECTED, CLASS A, 10"	FOOT	111.0	111.0	0.0
61101017	STORM SEWER PROTECTED, CLASS A, 15"	FOOT	93.0	0.0	93.0
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA	EACH	2.0	2.0	0.0

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 719 / U. S. 150 CHAMPAIGN COUNTY	FAP 719 / U. S. 150 CHAMPAIGN COUNTY
	S. N. 010-8150 S. N. 010-8153 RURAL 2-LANE	S. N. 010-8149 URBAN 2-LANE
FUNDING BREAK OUT:	80% FED 20% STATE	80% FED 20% STATE
CONSTRUCTION TYPE CODE:	0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA	EACH	4.0	0.0	4.0
61140100	STORM SEWER (SPECIAL), 10"	FOOT	6.0	6.0	0.0
61140200	STORM SEWER (SPECIAL), 12"	FOOT	3.0	3.0	0.0
61140400	STORM SEWER (SPECIAL) 15"	FOOT	63.0	0.0	63.0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	275.0	275.0	0.0
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POST	FOOT	100.0	100.0	0.0
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	25.0	25.0	0.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3.0	3.0	0.0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1.0	1.0	0.0
63200310	GUARDRAIL REMOVAL	FOOT	675.0	675.0	0.0
63500105	DELINEATORS	EACH	4.0	2.0	2.0
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	583.0	583.0	0.0
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.0	0.7	0.3
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6.0	4.0	2.0

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

	LOCATION OF WORK:	FAP 719 / U.S. 150 CHAMPAIGN COUNTY	FAP 719 / U.S. 150 CHAMPAIGN COUNTY
		S. N. 010-8150 S. N. 010-8153 RURAL 2-LANE	S. N. 010-8149 URBAN 2-LANE
	FUNDING BREAK OUT:	80% FED 20% STATE	80% FED 20% STATE
	CONSTRUCTION TYPE CODE:	0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4.0	2.0	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON REDIRECTIVE), TEST LEVEL 3	EACH	6.0	4.0	2.0
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0	4.0	0.0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7634.0	5974.0	1660.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6.0	4.0	2.0
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8.0	8.0	0.0
X0322584	REVTMENT MAT REMOVAL	SQ YD	240.0	76.0	164.0
X0325405	FILLING EXISTING STORM SEWERS	CU YD	14.0	0.0	14.0
X0327691	GRATING FOR CONCRETE HEADWALL NO 1	EACH	2.0	0.0	2.0
X0327692	GRATING FOR CONCRETE HEADWALL NO 2	EACH	2.0	2.0	0.0
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	307.0	193.0	114.0
X5401205	PRECAST CONCRETE BOX CULVERTS 12'x5' (SPECIAL)	FOOT	44.0	44.0	0.0
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	96.0	66.0	30.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	0.7	0.3

* SPECIALTY ITEM

FILE NAME -	USER NAME - Baker-CR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pc:\N\084EBID\INTEG.illinois.gov\FWID01\Documents\IDOT Offices\District 5\Projects\0579\Drawings\Design\05790620-sht-500.dgn		DRAWN	REVISED			719	13CR	CHAMPAIGN	109	9
MODEL NAME -	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -		SCALE:					
	PLOT DATE = 5/7/2018	DATE -	REVISED -		SHEET 6	OF 6	SHEETS	STA.	TO STA.	
[ILLINOIS] FED. AID PROJECT CONTRACT NO. 70620										

SUMMARY OF QUANTITIES

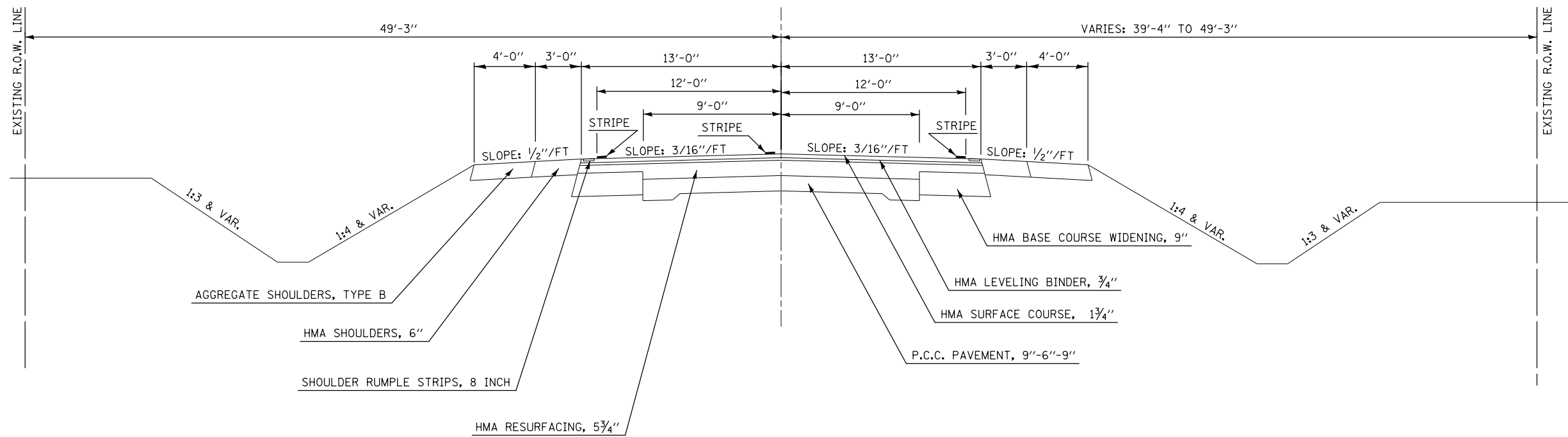
LOCATION OF WORK:	FAP 719 / U. S. 150 CHAMPAIGN COUNTY	FAP 719 / U. S. 150 CHAMPAIGN COUNTY
	S. N. 010-8150 S. N. 010-8153 RURAL 2-LANE	S. N. 010-8149 URBAN 2-LANE
FUNDING BREAK OUT:	80% FED 20% STATE	80% FED 20% STATE
CONSTRUCTION TYPE CODE:	0004	0004

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	0.7	0.3
Z0038700	PERMANENT BENCH MARKS	EACH	3.0	2.0	1.0

2

**Ⓐ EXISTING TYPICAL CROSS SECTION
CULVERT NO. 1**

STATION TO STATION
826+42.00 TO 828+18.50 Ⓑ
828+29.50 TO 829+50.00

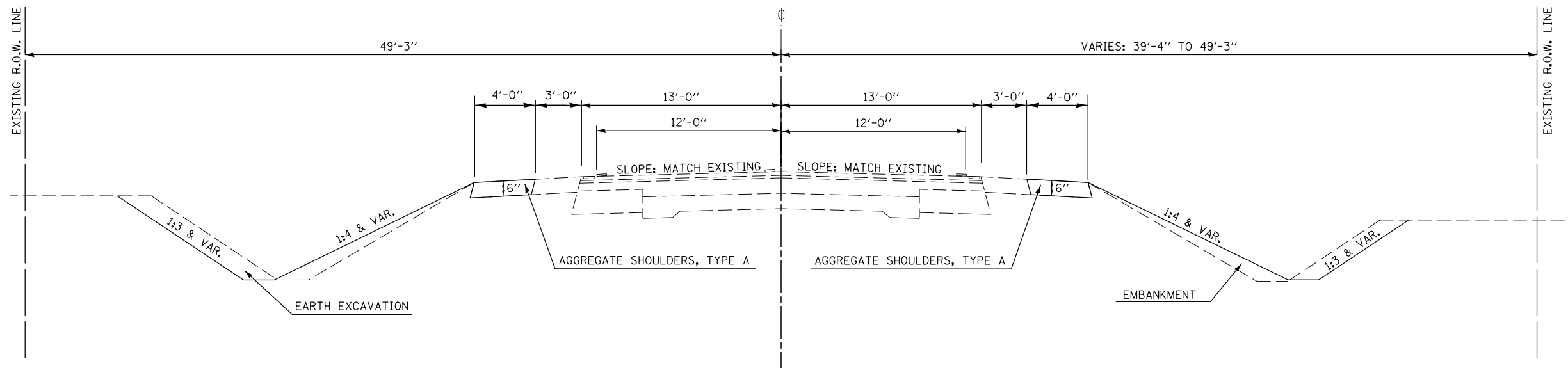


**Ⓐ PROPOSED TYPICAL CROSS SECTION
CULVERT NO. 1**

STATION TO STATION
826+42.00 TO 828+00.00 Ⓑ
828+39.00 TO 829+50.00

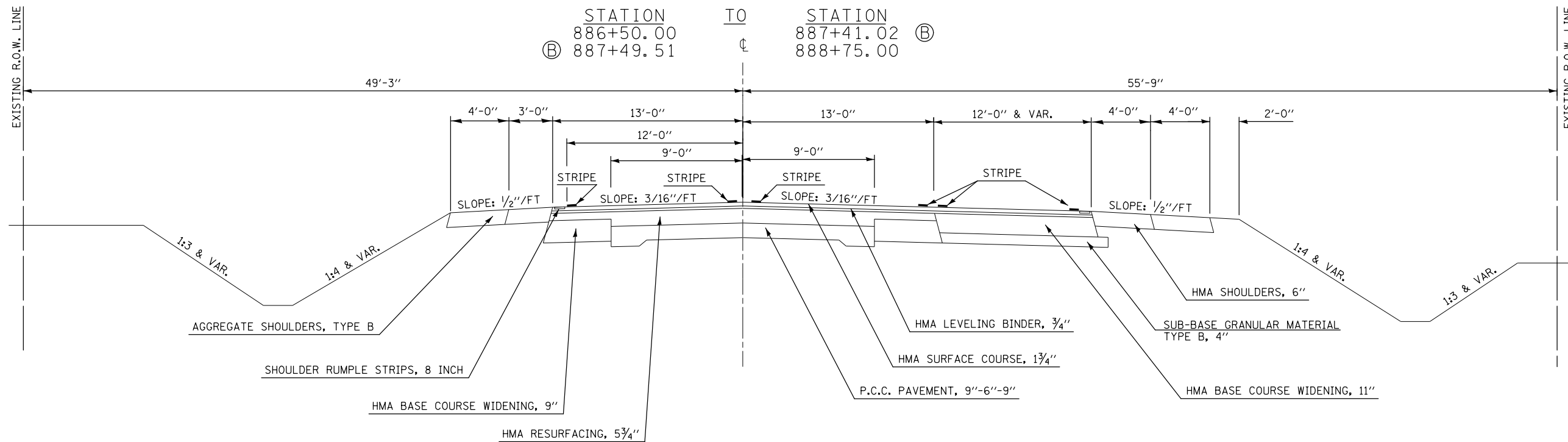
* AGGREGATE SHOULDERS, TYPE A
STA. 824+50.00 TO STA. 830+30.00

* AGGREGATE SHOULDERS, TYPE A
STA. 824+50.00 TO STA. 825+54.00
STA. 826+05.00 TO STA. 826+30.00
STA. 826+76.00 TO STA. 830+30.00

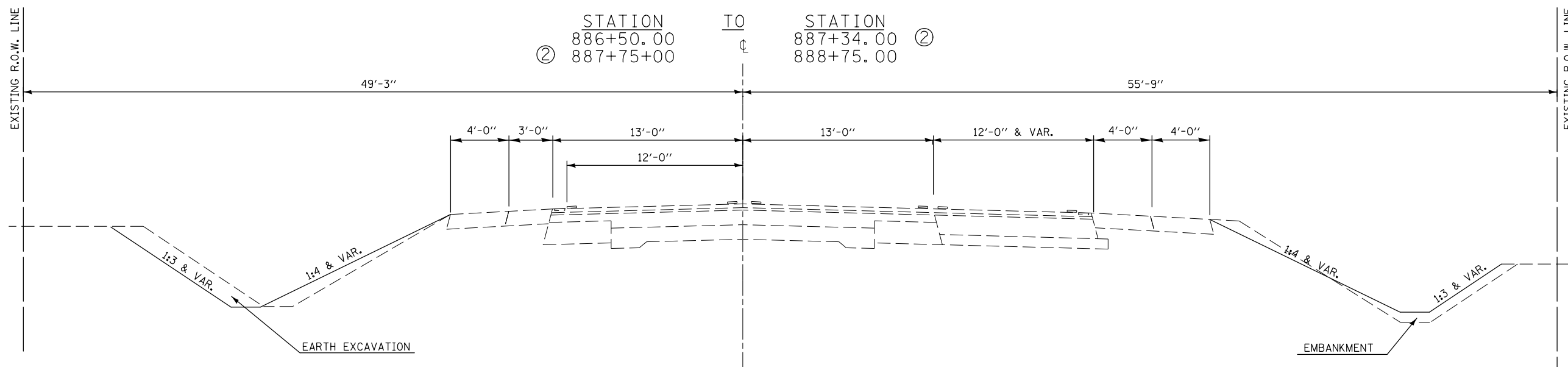


FILE NAME =	USER NAME = Baker-CR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTION CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\ill084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579620\0579620-shr-Typical.dwg		CHECKED -	REVISED -			719	13CR	CHAMPAIGN	109	11	
PLOT SCALE = 48.0000' / in.		DATE -	REVISED -			SCALE:		SHEET 1 OF 2 SHEETS		STA. TO STA.	ILLINOIS FED. AID PROJECT
#MODELNAME#											

**Ⓐ EXISTING TYPICAL CROSS SECTION
CULVERT NO. 2**



**Ⓛ PROPOSED TYPICAL CROSS SECTION
CULVERT NO. 2**

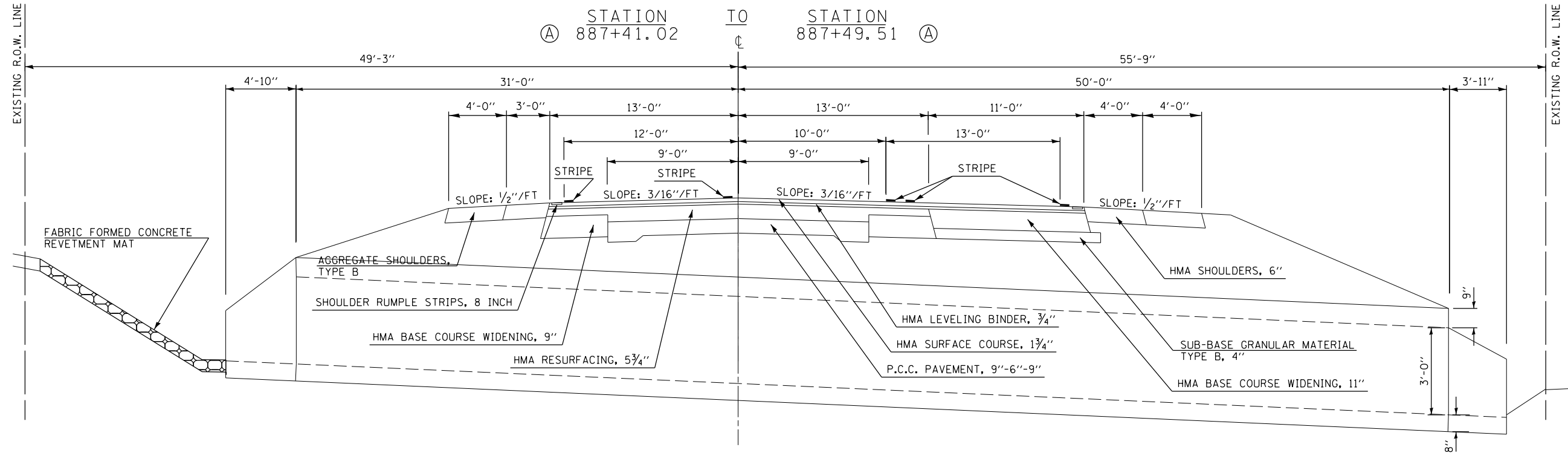


FILE NAME =	USER NAME = Baker-CR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTION CULVERT NO. 2 / PROPOSED S.N. 010-8150	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\057982\Drawings\Design\057982-shr-Typical.dwg	DESIGNED -	REVISED -	719			13CR	CHAMPAIGN	109	13	
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70620							
#MODELNAME#	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

EXISTING S.N. 010-8080
 SIZE = 8' x 3' x 81'

EXISTING ELEVATIONS:
 U.S.F.L. = 774.46
 D.S.F.L. = 772.20

**EXISTING TYPICAL CROSS SECTION
 CULVERT NO. 2**



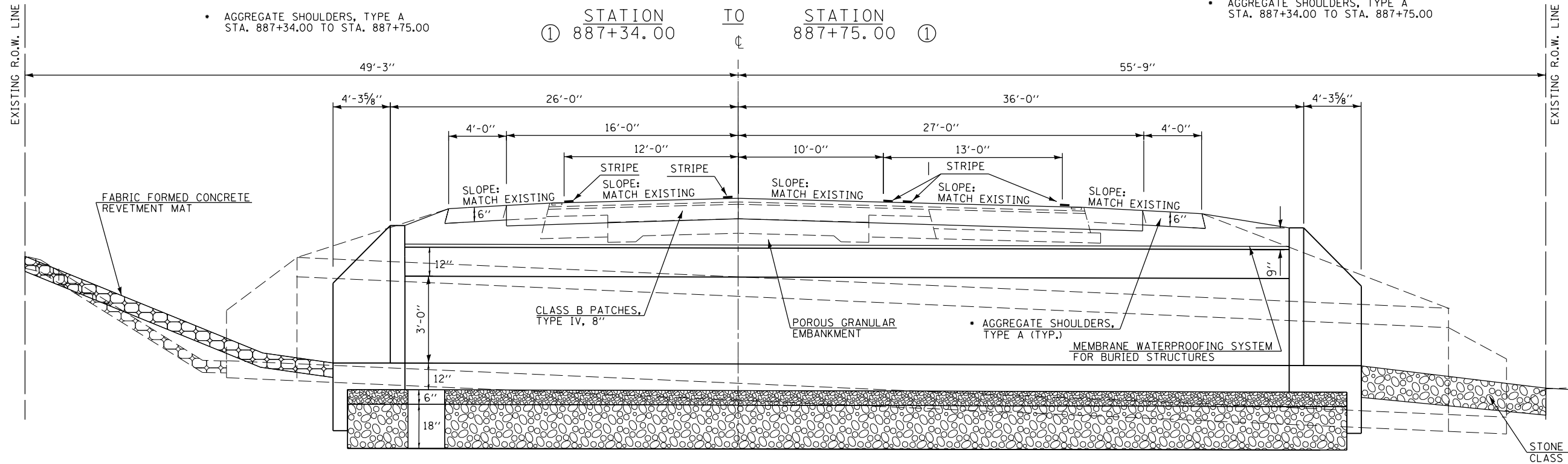
PROPOSED S.N. 010-8150
 SIZE = 12' x 3' x 62'

CENTER LINE STATION = 887+53.00
 CENTER LINE ELEVATION = 779.78
 PROPOSED ELEVATIONS:
 U.S.F.L. = 774.00
 D.S.F.L. = 773.90

**PROPOSED TYPICAL CROSS SECTION
 CULVERT NO. 2**

POROUS GRANULAR MATERIAL - CA-7 (6")
 (INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)
 STONE RIPRAP CLASS A1
 (UNDER CUT 18" BELOW THE STANDARD 6")

• AGGREGATE SHOULDERS, TYPE A
 STA. 887+34.00 TO STA. 887+75.00



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
p:\11\084EBID\INTEG.\Illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0570620\0570620-shr-Typical.dwg		REVISOR -	REVISOR -
		CHECKED -	REVISOR -
		DATE -	REVISOR -
#MODELNAME#	PLOT DATE = 5/7/2018		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION	
CULVERT NO. 2 / PROPOSED S.N. 010-8150	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

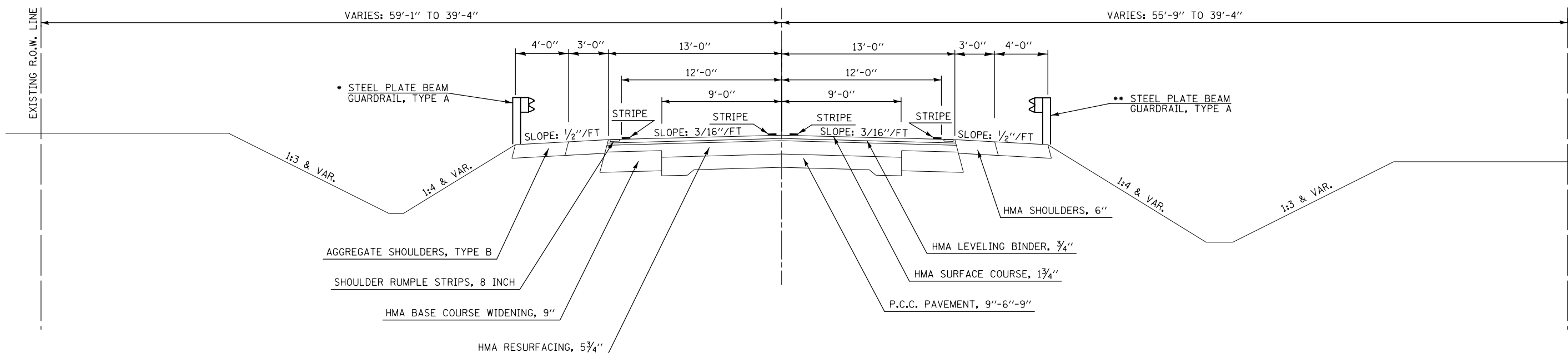
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	14
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

• STEEL PLATE BEAM GUARDRAIL
 STA. 899+36.69 TO STA. 900+78.22
 STA. 900+86.04 TO STA. 902+25.80

**EXISTING TYPICAL CROSS SECTION
 CULVERT NO. 3**

** STEEL PLATE BEAM GUARDRAIL
 STA. 898+50.76 TO STA. 900+78.22
 STA. 900+86.04 TO STA. 902+29.85

STATION 898+00.00 TO STATION 900+78.22
 STATION 900+86.04 TO STATION 902+80.00



** STEEL PLATE BEAM GUARDRAIL
 STA. 899+75.75 TO STA. 900+75.75
 STA. 901+88.25 TO STA. 902+13.25

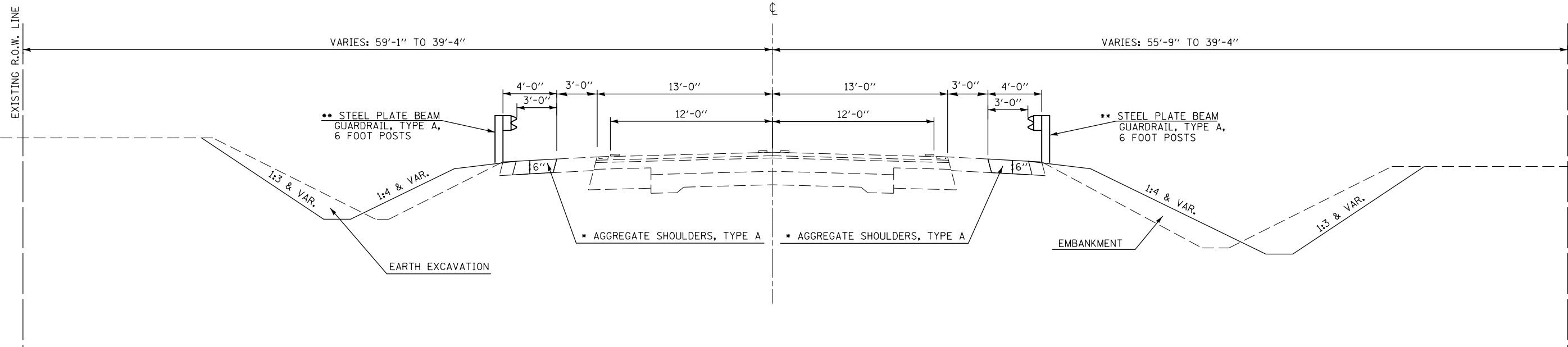
**PROPOSED TYPICAL CROSS SECTION
 CULVERT NO. 3**

** STEEL PLATE BEAM GUARDRAIL
 STA. 898+50.75 TO STA. 900+75.75
 STA. 900+88.25 TO STA. 902+63.25

* AGGREGATE SHOULDERS, TYPE A
 STA. 898+60.00 TO STA. 902+11.00
 STA. 902+97.00 TO STA. 904+00.00

* AGGREGATE SHOULDERS, TYPE A
 STA. 898+00.00 TO STA. 904+00.00

STATION 898+00.00 TO STATION 900+63.75
 STATION 901+00.25 TO STATION 902+80.00



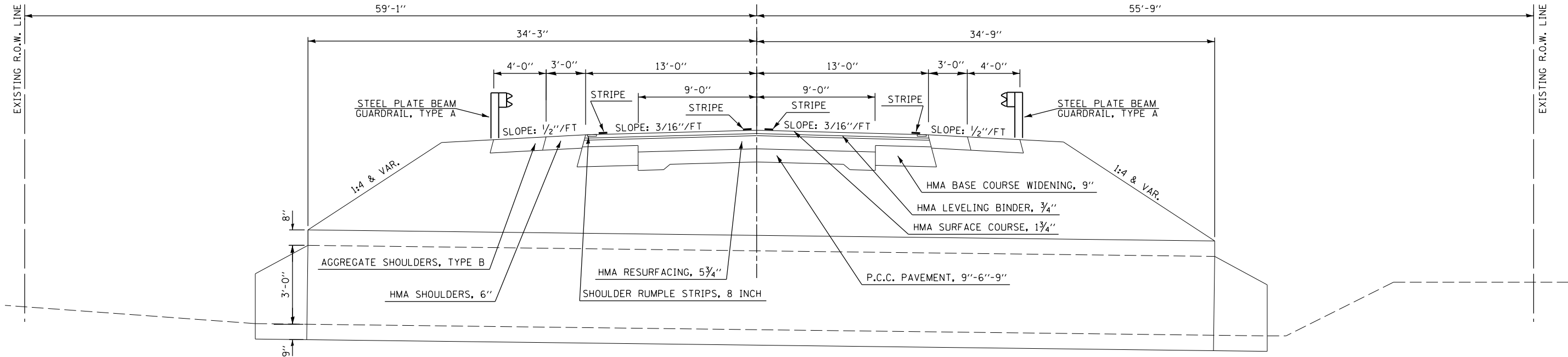
FILE NAME =	USER NAME = Baker-CR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTION CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\ill084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0570620\0570620-shr-Typical.dwg		CHECKED -	REVISED -			719	13CR	CHAMPAIGN	109	15	
PLOT SCALE = 48.0000' / in.		DATE -	REVISED -			CONTRACT NO. 70620					
#MODELNAME#						ILLINOIS FED. AID PROJECT					

EXISTING S.N. 010-8081
 SIZE = 7'x3'x69'

EXISTING ELEVATIONS:
 U.S.F.L. = 766.50
 D.S.F.L. = 766.00

**EXISTING TYPICAL CROSS SECTION
 CULVERT NO. 3**

STATION 900+78.22 TO STATION 900+86.04



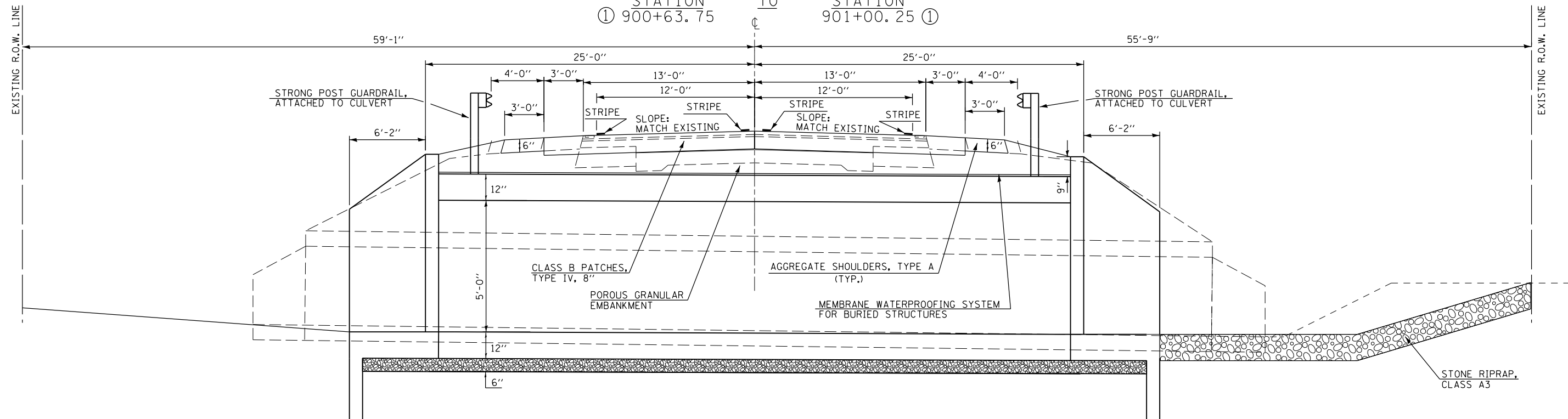
PROPOSED S.N. 010-8153
 SIZE = 12'x5'x50'

CENTER LINE ELEVATION = 773.75
 PROPOSED ELEVATIONS:
 U.S.F.L. = 766.10
 D.S.F.L. = 766.00

**PROPOSED TYPICAL CROSS SECTION
 CULVERT NO. 3**

STATION 900+63.75 TO STATION 901+00.25

POROUS GRANULAR MATERIAL - CA-7 (6")
 (INCLUDED IN PAY ITEM FOR PRECAST BOX CULVERT)



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
pw\ill084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0570620\0570620-shr-Typical.dwg		REVISOR -	REVISOR -
		CHECKED -	REVISOR -
		DATE -	REVISOR -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION	
CULVERT NO. 3 / PROPOSED S.N. 010-8153	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	16
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

SCHEDULE OF QUANTITIES

20200100 EARTH EXCAVATION
 20200500 EARTH EXCAVATION (WIDENING)
 SEE SPECIAL PROVISIONS FOR NON USEABLE EXCAVATION

LOCATION	SIDE	STATION	TO	STATION	20200500 EARTH EXCAVATION (WIDENING) (CU YD)	20200100 EARTH EXCAVATION (CU YD)	EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTH WORK BALANCED WASTE (+) OR SHORTAGE (-) (CU YD)
CULVERT NO. 1									
DITCH SLOPE	RT.	827+00.00		827+76.00	NONE USEABLE	12.00	0.00	0.00	0.00
		827+76.00		829+50.00		25.00	0.00	14.00	-14.00
DITCH SLOPE	LT.	826+42.00		828+00.00		19.00	14.25	1.00	13.25
		828+00.00		828+77.00	NONE USEABLE	42.00	0.00	0.00	0.00
		828+77.00		829+50.00		5.00	3.75	0.00	3.75
* SHOULDER	LT	824+50.00		830+30.00	42.96			0.00	0.00
* SHOULDER	RT	824+50.00		825+54.00	7.70			0.00	0.00
* SHOULDER	RT	826+05.00		826+30.00	1.85			0.00	0.00
* SHOULDER	RT	826+76.00		830+30.00	26.22			0.00	0.00
SUB-TOTAL =					50.67	103.00	18.00	15.00	3.00
USE =					51.00	103.00	18.00	15.00	3.00
CULVERT NO. 2									
DITCH SLOPE	RT.	886+50.00		887+06.00		32.70	24.53	0.40	24.13
		887+06.00		888+06.00	NONE USEABLE	120.20	0.00	0.00	0.00
		888+06.00		888+75.00		22.10	16.58	0.00	16.58
DITCH SLOPE	LT.	886+50.00		886+98.00		6.70	5.03	0.70	4.33
		886+98.00		887+74.00	NONE USEABLE	35.30	0.00	0.00	0.00
		887+74.00		888+50.00		10.40	7.80	0.00	0.00
* SHOULDER	RT	887+31.00		887+75.00	3.25			0.00	0.00
* SHOULDER	LT	887+31.00		887+75.00	3.25			0.00	0.00
CHANNEL	RT	10+51.51		11+50.00		25.00	18.75	0.00	18.75
CHANNEL	LT	10+51.50		11+50.00		7.00	5.25	4.00	1.25
SUB-TOTAL =					6.50	259.40	77.93	5.10	65.03
USE =					7.00	260.00	78.00	6.00	66.00
CULVERT NO. 3									
DITCH SLOPE	RT.	898+30.00		901+67.00		125.00	93.75	38.00	55.75
		901+67.00		902+67.00	NONE USEABLE	19.00	0.00	6.00	0.00
		902+67.00		902+80.00		0.50	0.38	0.30	0.08
DITCH SLOPE	LT.	898+60.00		900+16.00		13.00	9.75	11.00	-1.25
		900+16.00		900+94.00	NONE USEABLE	36.00	0.00	0.00	0.00
		900+94.00		901+74.00		31.00	23.25	11.00	12.25
		901+74.00		902+30.00		21.75	16.31	0.00	16.31
* SHOULDER	LT	898+60.00		902+11.00	26.00			0.00	0.00
* SHOULDER	LT	902+97.00		904+00.00	7.63			0.00	0.00
* SHOULDER	RT	898+00.00		904+00.00	44.44			0.00	0.00
CHANNEL	LT	3+45.18		3+74.11		18.00	13.50	1.00	0.00
CHANNEL	RT	3+45.18		3+74.11		30.00	22.50	0.00	0.00
SUB-TOTAL =					78.07	294.25	179.44	67.30	83.14
USE =					79.0	295.0	180.0	68.0	84.0
TOTAL =					137.00	658.00	276.00	89.00	153.00
					CU YD	CU YD	CU YD	CU YD	CU YD

21301052 EXPLORATION TRENCH 52"					
LOCATION	SIDE	STATION	TO	STATION	QUANTITY (FOOT)
CULVERT NO. 1	LT.	827+50.00		828+50.00	100.0
SUB-TOTAL =					100.0
CULVERT NO. 2	RT.	887+00.00		888+00.00	100.0
SUB-TOTAL =					100.0
CULVERT NO. 3	RT.	900+50.00		901+30.00	80.0
CULVERT NO. 3	LT.	900+48.00		901+08.00	60.0
SUB-TOTAL =					140.0
TOTAL =					340.0
					FOOT

28000400 PERIMETER EROSION BARRIER							
LOCATION	STATION	OFFSET	TO	STATION	OFFSET	RT/LT	QUANTITY (FOOT)
CULVERT NO. 1	828+00.00	49.00		828+48.00	49.00	RT	48.0
SUB-TOTAL =							48.0
CULVERT NO. 2	887+04.00	55.81		887+14.00	159.00	RT	107.0
	887+14.00	159.00		887+60.00	159.00	RT	56.0
	887+60.00	159.00		887+79.00	55.81	RT	109.0
SUB-TOTAL =							272.0
CULVERT NO. 3	898+00.00	29.37		900+65.00	33.91	RT	270.0
	900+70.00	55.45		901+20.00	55.45	RT	50.0
SUB-TOTAL =							320.0
TOTAL =							640.0
USE =							640.0
							FOOT

*NOTE: SHOULDERS WERE CALCULATED BY WIDTH x LENGTH x DEPTH. THE CUT AND FILL QUANTITIES WILL NOT SHOW IN CROSS SECTIONS

** NOTE: NON-SPECIAL WASTE DISPOSAL EQUALS NONE USEABLE EXCAVATION PLUS STRUCTURE EXCAVATION THAT IS INCLUDED IN THE COST OF THE CONCRETE BOX CULVERTS. (SEE SPECIAL PROVISIONS FOR LOCATIONS OF NON-SPECIAL WASTE DISPOSAL.)

SCHEDULE OF QUANTITIES

DRAINAGE STRUCTURE SCHEDULE

LOCATION	STATION	28000500 INLET AND PIPE PROTECTION (EACH)	28100201 STONE RIPRAP, CLASS A1 (TON)	50100300 REMOVAL OF EXISTING STRUCT NO. 1 (EACH)	50100400 REMOVAL OF EXISTING STRUCT NO. 2 (EACH)	50100500 REMOVAL OF EXISTING STRUCT NO. 3 (EACH)	51500100 NAME PLATES (EACH)	54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1 (EACH)	54001002 BOX CULVERT END SECTIONS, CULVERT NO. 2 (EACH)	54001003 BOX CULVERT END SECTIONS, CULVERT NO. 3 (EACH)	54010803 PCBC 8' X 3' (FOOT)	54011203 PCBC 12' X 3' (FOOT)
CULVERT NO. 1	828+24.00		93.0	1.0			1.0	2.0			96.0	
CULVERT NO. 2	887+53.00		130.0		1.0		1.0		2.0			56.0
CULVERT NO. 3	900+82.00	3.0	0.0			1.0	1.0			2.0		
TOTAL =		3.0 EACH	223.0 TON	1.0 EACH	1.0 EACH	1.0 EACH	3.0 EACH	2.0 EACH	2.0 EACH	2.0 EACH	96.0 FOOT	56.0 FOOT

70106700 - TEMPORARY RUMPLE STRIPS

LOCATION	STA.	TO	STA.	QUANTITY (EACH)
CULVERT NO. 3	919+80.00		920+05.00	1.0
	924+80.00		925+05.00	1.0
	929+80.00		930+05.00	1.0
TOTAL =				3.0

CONT. FROM DRAINAGE STRUCTURE SCHEDULE

LOCATION	STATION	X0900064 MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES (SQ YD)	X0327691 GRATING FOR CONCRETE HEADWALL NO.1 (EACH)	X0327692 GRATING FOR CONCRETE HEADWALL NO. 2 (EACH)	X5401205 PCBC 12' X 5', (SPECIAL) (FOOT)	Z0038700 PERMANENT BENCH MARKS (EACH)
CULVERT NO. 1	828+24.00	114.0	2.0			1.0
CULVERT NO. 2	887+53.00	107.0		2.0		1.0
CULVERT NO. 3	900+82.00	86.0			44.0	1.0
TOTAL =		307.0 SQ YD	2.0 EACH	2.0 EACH	44.0 FOOT	3.0 EACH

20700220 POROUS GRANULAR EMBANKMENT

LOCATION	STATION	TO	STATION	QUANTITY (CU YD)
CULVERT NO. 1	828+14.38		828+33.63	194.0
PIPE CULVERT EMBANKMENT INCLUDED IN THE QUANTITY				
SUB-TOTAL =				194.0
USE =				194.0
CULVERT NO. 2	887+44.00		887+62.00	259.0
PIPE CULVERT EMBANKMENT INCLUDED IN THE QUANTITY				
SUB-TOTAL =				259.0
USE =				259.0
CULVERT NO. 3	900+73.00		900+91.00	210.0
SUB-TOTAL =				210.0
USE =				210.0
TOTAL =				663.0 CU YD

60500060 REMOVING INLETS 61133100 FIELD TILE JUNCTION VAULTS, 2' DIA. 61133200 FIELD TILE JUNCTION VAULTS, 3' DIA.

LOCATION	STATION	OFFSET		U. S. F. L. INVERT	D. S. F. L. INVERT	ELEV. TOP OF GRATE	ELEV. TOP OF MASONARY	DEPTH OF INLET	60500060 REMOVING INLETS (EACH)	61133100 FIELD TILE JUCTION VAULTS, 2' DIA (EACH)	61133200 FIELD TILE JUCTION VAULTS, 3' DIA (EACH)
CULVERT NO. 1	827+73.00	45.5	RT	740.32	MATCH	747.44	746.69	7.6	1.0	0.0	1.0
	828+09.06	45.5	RT	740.43	740.40	746.91	746.16	6.5	0.0	0.0	1.0
	828+09.06	47.5	LT	740.65	740.62	748.98	748.23	8.5	0.0	0.0	1.0
	828+36.00	47.5	LT	MATCH	740.69	748.50	747.50	8.0	1.0	0.0	1.0
CULVERT NO. 2	887+66.78	49.25	RT.	771.60	771.52	773.82	773.07	3.0	0.0	1.0	0.0
	887+51.08	54.00	RT.	771.18	771.10	773.82	773.07	3.0	0.0	1.0	0.0
TOTAL =									2.0	2.0	4.0

SCHEDULE OF QUANTITIES

PATCHING SCHEDULE										
LOCATION		STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	44200944 CLASS B PATCHES, TYPE IV, 8" (SQ YD)	42000060 WELDED WIRE REINFORCEMENT (SQ YD)	44213204 TIE BARS 3/4" (EACH)	44213200 SAW CUTS (FOOT)
CULVERT NO. 1	STAGE 1	828+00.00		828+39.00	39.0	16.0	69.3	69.3	17.0	82.0
CULVERT NO. 1	STAGE 2	828+00.00		828+39.00	39.0	16.0	69.3	69.3		82.0
							SUB-TOTAL =	138.7	17.0	164.0
							USE =	139.0	17.0	164.0
CULVERT NO. 2	STAGE 1	887+34.00		887+75.00	41.0	21.0	95.7	95.7	22.0	110.0
CULVERT NO. 2	STAGE 2	887+34.00		887+75.00	41.0	22.0	100.2	100.2		113.0
							SUB-TOTAL =	195.9	22.0	223.0
							USE =	196.0	22.0	223.0
CULVERT NO. 3	STAGE 1	900+63.75		901+00.25	36.5	16.0	64.9	64.9	18.0	84.0
CULVERT NO. 3	STAGE 2	900+63.75		901+00.25	36.5	16.0	64.9	64.9		84.0
							SUB-TOTAL =	129.8	18.0	168.0
							USE =	130.0	18.0	168.0
							TOTAL =	465.0	57.0	555.0
								SQ YD	EACH	FOOT

28100105 - STONE RIPRAP, CLASS A3 28200200 - FILTER FABRIC							
LOCATION	SIDE	STATION	STATION	LENGTH (AVG.)	WIDTH (AVG.)	28100105 QUANTITY (SQ YD)	28200200 QUANTITY (SQ YD)
CULVERT NO. 2	RT.	887+35.00	887+70.00	35.0	18.0	70.0	70.0
CULVERT NO. 3	RT.	900+65.00	900+99.00	34.0	24.0	90.7	90.7
						TOTAL =	160.7
						USE =	161.0
							SQ YD

48100100 AGGREGATE SHOULDERS, TYPE A								
LOCATION	SIDE	STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	DEPTH (INCH)	QUANTITY (TON)
CULVERT NO. 1	RT.	824+50.00		825+54.00	104.0	4.0	6.0	13.9
	RT.	826+05.00		826+30.00	25.0	4.0	6.0	3.3
	RT.	826+76.00		830+30.00	354.0	4.0	6.0	47.2
CULVERT NO. 1	LT.	824+50.00		830+30.00	580.0	4.0	6.0	77.3
							SUB-TOTAL =	141.7
							USE =	142.0
CULVERT NO. 2	RT.	887+34.00		887+75.00	41.0	4.0	6.0	5.5
CULVERT NO. 2	LT.	887+34.00		887+75.00	41.0	4.0	6.0	5.5
							SUB-TOTAL =	10.9
							USE =	11.0
CULVERT NO. 3	RT.	898+00.00		904+00.00	600.0	3.0	6.0	60.0
CULVERT NO. 3	LT.	898+60.00		902+11.00	351.0	3.0	6.0	35.1
	LT.	902+97.00		904+00.00	103.0	3.0	6.0	10.3
							SUB-TOTAL =	95.1
							USE =	96.0
							TOTAL =	249.0
								TON

SCHEDULE OF QUANTITIES

X0322584 - REVETMENT MAT REMOVAL						28500100 - FABRIC FORMED CONCRETE REVETMENT MAT	
LOCATION		STATION	STATION	LENGTH	WIDTH	X0322584 QUANTITY (SQ YD)	28500100 QUANTITY (SQ YD)
CULVERT NO. 1	LT.	827+97.00	828+52.00	55.0	30.0	0.0	183.3
CULVERT NO. 1	LT.	828+02.00	828+51.00	49.0	30.0	163.3	0.0
SUB-TOTAL =						163.3	183.3
USE =						164.0	184.0
CULVERT NO. 2	LT.	887+28.00	887+71.00	43.0	22.0	0.0	105.1
CULVERT NO. 2	LT.	887+31.00	887+62.00	31.0	22.0	75.8	0.0
SUB-TOTAL =						75.8	105.1
USE =						76.0	105.0
TOTAL =						240.0	289.0
						SQ YD	SQ YD

50105220 - PIPE CULVERT REMOVAL								QUANTITY (FOOT)	
LOCATION		STATION	OFFSET	SIDE	TO	STATION	OFFSET	SIDE	
CULVERT NO. 1		827+73.42	44.1	RT		827+75.08	43.4	RT	2.0
		828+05.00	3.6	LT		828+24.00	28.6	LT	34.0
		828+35.10	44.90	LT		828+34.98	43.40	LT	2.0
SUB-TOTAL =								38.0	
CULVERT NO. 2		887+51.07	54.74	RT		887+20.11	48.91	LT	103.0
		887+21.03	36.86	LT.		887+40.22	37.62	LT	20.0
		887+55.18	40.07	LT.		887+56.64	42.83	LT	3.0
SUB-TOTAL =								126.0	
CULVERT NO. 3		900+86.04	29.51	LT		901+69.20	28.20	LT	83.2
SUB-TOTAL =								83.2	
TOTAL =								247.2	
USE =								248.0	
								FOOT	

PAVEMENT MARKING BLACK OUT TAPE							
STATION	TO	STATION	(LENGTH)	70107005 PAVEMENT MARKING BLACK OUT TAPE 5" (FOOT)	70107012 PAVEMENT MARKING BLACK OUT TAPE 12" (FOOT)	70107024 PAVEMENT MARKING BLACK OUT TAPE 24" (SYMBOLS) (SQ FT)	70300150 SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)
CULVERT NO. 1							
823+64.00		824+90.00	126	31.5	0.0	0.0	13.1
824+90.00		829+63.00	473	0.0	0.0	0.0	0.0
829+63.00		831+34.00	171	42.8	0.0	0.0	17.8
SUB-TOTAL =				74.3	0.0	0.0	31.0
USE =				75.0	0.0	0.0	31.0
CULVERT NO. 2							
885+43.00		887+05.00	162	324.0	0.0	46.8	181.8
887+05.00		888+63.00	158	0.0	0.0	15.6	15.6
888+63.00		893+00.00	437	874.0	62.0	0.0	426.2
SUB-TOTAL =				1198.0	62.0	62.4	623.6
USE =				1198.0	62.0	63.0	624.0
CULVERT NO. 3							
893+00.00		899+62.00	662	622.0	0.0	0.0	259.2
899+62.00		902+36.00	274	0.0	0.0	0.0	0.0
902+36.00		912+00.00	964	1205.0	0.0	0.0	502.1
SUB-TOTAL =				1827.0	0.0	0.0	761.3
USE =				1827.0	0.0	0.0	762.0
TOTAL =				3100.0	62.0	63.0	1417.0
				FOOT	FOOT	SQ FT	SQ FT

28000305 TEMPORARY DITCH CHECK											
CULVERT NO. 1				CULVERT NO. 2				CULVERT NO. 3			
	STATION	QUANTITY (FOOT)			STATION	QUANTITY (FOOT)			STATION	QUANTITY (FOOT)	
RT.	827+75.00	10.0		RT.	887+10.00	10.0		RT.	901+05.00	10.0	
RT.	828+06.00	10.0		RT.	887+38.00	10.0		RT.	901+55.00	10.0	
RT.	828+42.00	10.0		RT.	887+70.00	10.0		RT.	902+00.00	10.0	
RT.	829+00.00	10.0		RT.	888+07.00	10.0		RT.	902+50.00	10.0	
				RT.	888+37.00	10.0					
								LT.	899+14.00	10.0	
								LT.	899+64.00	10.0	
								LT.	900+14.00	10.0	
LT.	827+00.00	10.0		LT.	886+90.00	10.0		LT.	900+64.00	10.0	
LT.	827+50.00	10.0		LT.	887+25.00	10.0		LT.	901+00.00	10.0	
LT.	827+96.00	10.0		LT.	887+75.00	10.0		LT.	901+22.00	10.0	
LT.	828+52.00	10.0		LT.	888+10.00	10.0		LT.	901+57.00	10.0	
LT.	829+05.00	10.0									
TOTAL =			90.0	TOTAL =			90.0	TOTAL =			110.0

SCHEDULE OF QUANTITIES

GUARDRAIL SCHEDULE					63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS (FOOT)	63000007 STEEL PLATE BEAM GUARDRAIL, TYPE B 6 FT POSTS (FOOT)	63000030 STRONG POST GUARDRAIL, ATTACHED TO CULVERT (FOOT)	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	63100169 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) FLARE (EACH)	78200005 GUARDRAIL REFLECTORS TYPE A (EACH)	72501000 TERMINAL MARKER, DIRECT APPLIED (EACH)
LOCATION		STATION	TO	STATION							
CULVERT NO. 3	RT.	898+48.75		898+98.75				1.0			1.0
CULVERT NO. 3	RT.	898+98.75		900+48.75	150.0						
CULVERT NO. 3	RT.	900+48.75		900+73.75		25.0					
CULVERT NO. 3	RT.	900+73.75		900+86.25			12.5				
CULVERT NO. 3	RT.	900+86.25		901+11.25		25.0					
CULVERT NO. 3	RT.	901+11.25		901+48.75	37.5						
CULVERT NO. 3	RT.	901+48.75		901+98.75				1.0		4.0	1.0
CULVERT NO. 3	LT.	899+61.24		900+11.24				1.0			1.0
CULVERT NO. 3	LT.	901+11.24		900+48.74	37.5						
CULVERT NO. 3	LT.	900+48.74		900+73.74		25.0					
CULVERT NO. 3	LT.	900+73.74		900+86.24			12.5				
CULVERT NO. 3	LT.	900+86.24		901+11.24		25.0					
CULVERT NO. 3	LT.	901+11.24		901+61.24	50.0						
CULVERT NO. 3	LT.	901+61.24		902+11.24					1.0	4.0	1.0
TOTAL =					275.0	100.0	25.0	3.0	1.0	8.0	4.0
					FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH

PIPE CULVERT SCHEDULE											542A0229 PIPE CULVERTS CLASS A, TYPE 1 24'' (FOOT)	542D0223 PIPE CULVERTS CLASS D, TYPE 1 18'' (FOOT)	54213669 PRECAST REINFORCED CONCRETE FLARED END SECTION 24'' (EACH)	54261718 STEEL FLARED END SECTIONS, 18'' (EACH)	61101011 STORM SEWER PROTECTED CLASS A 10'' (FOOT)	61101017 STORM SEWER PROTECTED CLASS A 15'' (FOOT)	61140100 STORM SEWER SPECIAL 10'' (FOOT)	61140200 STORM SEWER SPECIAL 12'' (FOOT)	61140400 STORM SEWER SPECIAL 15'' (FOOT)
LOCATION	STATION	OFFSET		TO	STATION	OFFSET													
CULVERT NO. 1	828+08.00	45.59	RT.		828+08.00	47.50	LT.												
	827+73.00	45.5	RT.		828+08.00	45.50'	RT.												35.0
	828+08.00	47.50'	LT.		828+36.00	47.50'	LT.												28.0
CULVERT NO. 2	887+19.92	38.56	LT.		887+29.46	37.18	LT.	9.0		2.0									
	887+67.00	48.84	LT.		887+67.00	44.86	RT.				94.0								
	887+51.35	49.25	RT.		887+65.52	54.00	RT.				17.0								
CULVERT NO. 3	901+17.44	34.00	LT.		902+09.11	31.18	LT.			92.0									
	900+78.84	53.62	RT.													3.0			
	900+83.87	41.60	RT.												3.0				
	900+95.14	49.91	RT.														3.0		
TOTAL =									9.0	92.0	2.0	1.0	111.0	93.0	6.0	3.0	63.0		
									FOOT	FOOT	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT		

SCHEDULE OF QUANTITIES

63200310 GUARDRAIL REMOVAL							QUANTITY (FOOT)
LOCATION	SIDE	STATION	OFFSET	TO	STATION	OFFSET	
CULVERT NO. 3	RT.	898+50.91	20.10		902+29.10	21.00	378.2
CULVERT NO. 3	LT.	899+35.58	20.40		902+25.90	35.36	295.9
TOTAL =							674.1
USE =							675.0
							FOOT

X0325405 FILL EXISTING STORM SEWERS							
STA.	OFFSET	TO	STA	OFFSET (FOOT)	LENGTH (FOOT)	DIA (INCH)	CU YD
827+75.08	43.4 (RT)		828+05.00	3.6 (LT)	53.0	15	9.6
828+24.00	28.6 (LT)		828+35.10	44.9 (LT)	20.0	15	3.6
TOTAL =							13.2
USE =							14.0

THERMOPLASTIC PAVEMENT MARKING				78100100 RAISED REFLECTIVE PAVEMENT MARKER (EACH)	78000200 THERMOPLASTIC PAVEMENT MARKING 4" EDGE LINES (FOOT)	78000200 THERMOPLASTIC PAVEMENT MARKING 4" SOLID YELLOW (FOOT)	78000200 THERMOPLASTIC PAVEMENT MARKING 4" SKIP-DASH YELLOW (FOOT)
STATION	TO	STATION	(LENGTH)				
CULVERT NO. 1							
823+64.00		824+90.00	126	0.0	252.0	0.0	0.0
824+90.00		829+63.00	473	2.0	946.0	0.0	120.0
829+63.00		831+34.00	171	0.0	342.0	0.0	0.0
SUB-TOTAL =				2.0	1540.0	0.0	120.0
CULVERT NO. 2							
885+43.00		887+05.00	162	0.0	324.0	0.0	0.0
887+05.00		888+63.00	158	2.0	316.0	316.0	0.0
888+63.00		893+00.00	437	0.0	874.0	0.0	0.0
SUB-TOTAL =				2.0	1514.0	316.0	0.0
CULVERT NO. 3							
893+00.00		899+62.00	662	0.0	1324.0	0.0	0.0
899+62.00		902+36.00	274	2.0	548.0	274.0	70.0
902+36.00		912+00.00	964	0.0	1928.0	0.0	0.0
SUB-TOTAL =				2.0	3800.0	274.0	70.0
TOTAL =				6.0	6854.0	590.0	190.0
USE =				6.0	6854.0	590.0	190.0
				EACH	FOOT	FOOT	FOOT

SCHEDULE OF QUANTITIES

SEEDING & SODDING SCHEDULE								25200110 SODDING, SALT TOLERANT	25000210 SEEDING, CLASS 2A	25000350 SEEDING, CLASS 7	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH METHOD 2	28000250 TEMPORARY EROSION CONTROL SEEDING
CULVERT NO. 1								(SQ YD)	(ACRE)	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)	(POUND)
LOCATION	SIDE	STATION	TO	STATION	LENGTH	(AVG) WIDTH	(SQ FT)								
DITCH SLOPE	RT.	827+00.00		829+50.00	250.0	30.0	7500.00	833.33	0.00	0.00	10.33	10.33	10.33	0.17	17.22
DITCH SLOPE	LT.	826+42.00		827+97.00	155.0	30.0	4650.00	0.00	0.11	0.11	9.61	9.61	9.61	0.11	10.67
	LT.	828+52.00		829+50.00	98.0	30.0	2940.00	0.00	0.07	0.07	6.07	6.07	6.07	0.07	6.75
SUB-TOTAL =								833.33	0.17	0.17	26.01	26.01	26.01	0.35	34.64
USE =								834.00	0.25	0.25	27.00	27.00	27.00	0.50	35.00
CULVERT NO. 2															
DITCH SLOPE	RT.	886+50.00		887+38.00	88.0	27.0	2376.00	0.00	0.05	0.05	4.91	4.91	4.91	0.05	5.45
	RT.	887+64.00		888+75.00	111.0	27.0	2997.00	0.00	0.07	0.07	6.19	6.19	6.19	0.07	6.88
DITCH SLOPE	LT.	886+50.00		887+28.00	78.0	27.0	2106.00	0.00	0.05	0.05	4.35	4.35	4.35	0.05	4.83
	LT.	887+71.00		888+50.00	79.0	27.0	2133.00	0.00	0.05	0.05	4.41	4.41	4.41	0.05	4.90
CHANNEL	RT.	10+51.00		11+50.00	99.0	50.0	4950.00	0.00	0.11	0.11	10.23	10.23	10.23	0.11	11.36
SUB-TOTAL =								0.00	0.33	0.33	30.09	30.09	30.09	0.33	33.43
USE =								0.00	0.50	0.50	31.00	31.00	31.00	0.50	34.00
CULVERT NO. 3															
DITCH SLOPE	RT.	898+00.00		900+70.00	270.0	15.0	4050.00	0.00	0.09	0.09	8.37	8.37	8.37	0.09	9.30
	RT.	900+95.00		902+80.00	185.0	30.0	5550.00	0.00	0.13	0.13	11.47	11.47	11.47	0.13	12.74
DITCH SLOPE	LT.	898+60.00		900+69.00	209.0	30.0	6270.00	0.00	0.14	0.14	12.95	12.95	12.95	0.14	14.39
	LT.	900+90.50		902+30.00	139.5	30.0	4185.00	0.00	0.10	0.10	8.65	8.65	8.65	0.10	9.61
CHANNEL	LT.	3+73.00		3+45.00	28.0	26.0	728.00	0.00	0.02	0.02	1.50	1.50	1.50	0.02	1.67
SUB-TOTAL =								0.00	0.46	0.46	41.44	41.44	41.44	0.46	46.04
USE =								0.00	0.50	0.50	42.00	42.00	42.00	0.50	47.00
TOTAL =								834.00	1.25	1.25	100.00	100.00	100.00	USE = 4.5	116.00
								SQ YD	ACRE	ACRE	POUND	POUND	POUND	ACRE	POUND

63500105 - DELINEATORS	
ONE POST - SINGLE FACE TRIPLE AMBER REFLECTORS (EACH)	
CULVERT NO 1	2.0
CULVERT NO 2	2.0
TOTAL =	4.0

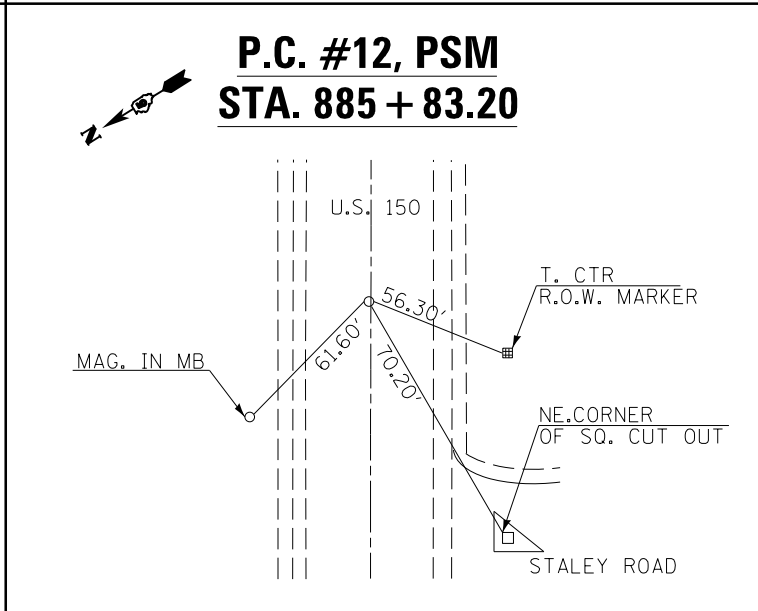
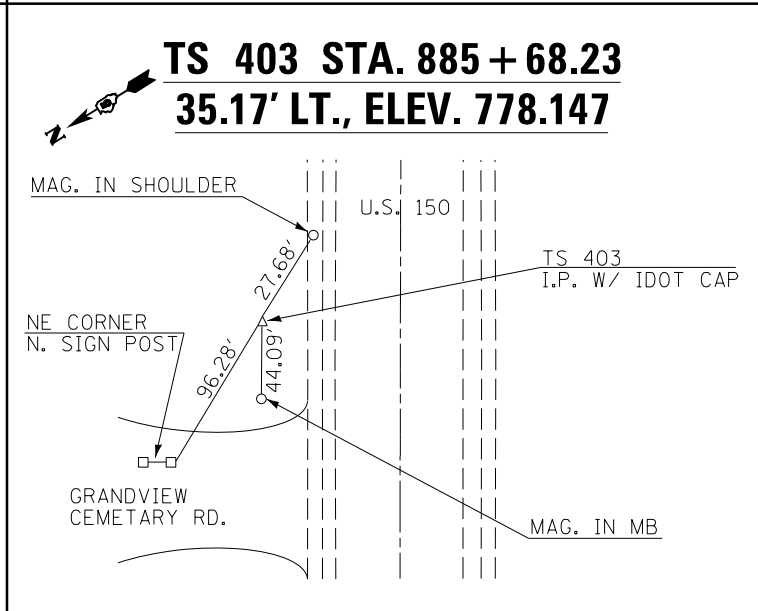
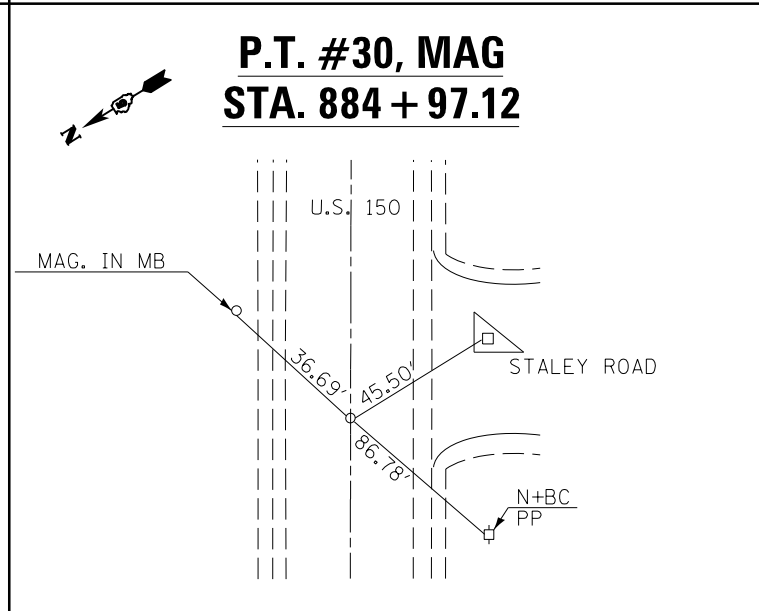
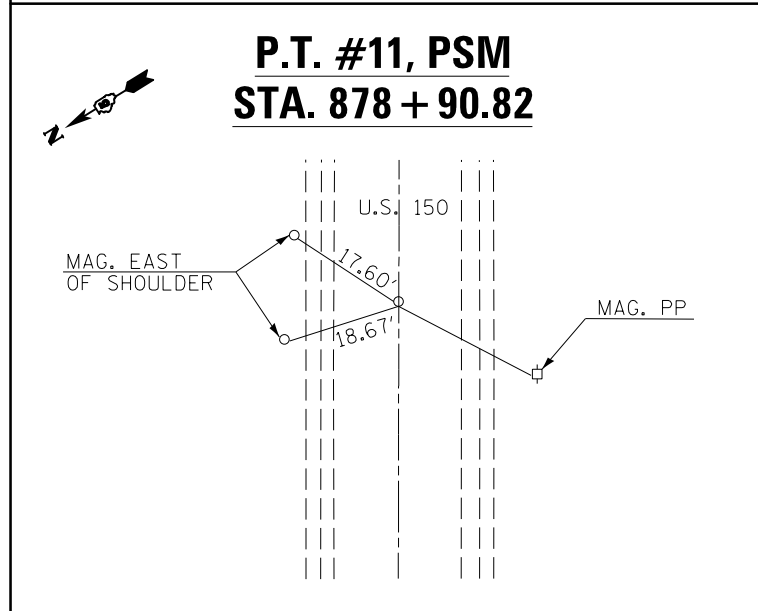
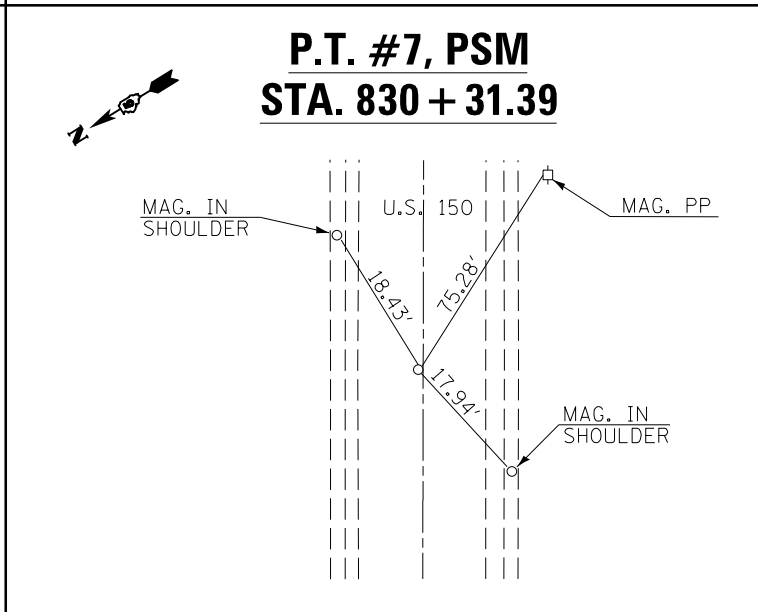
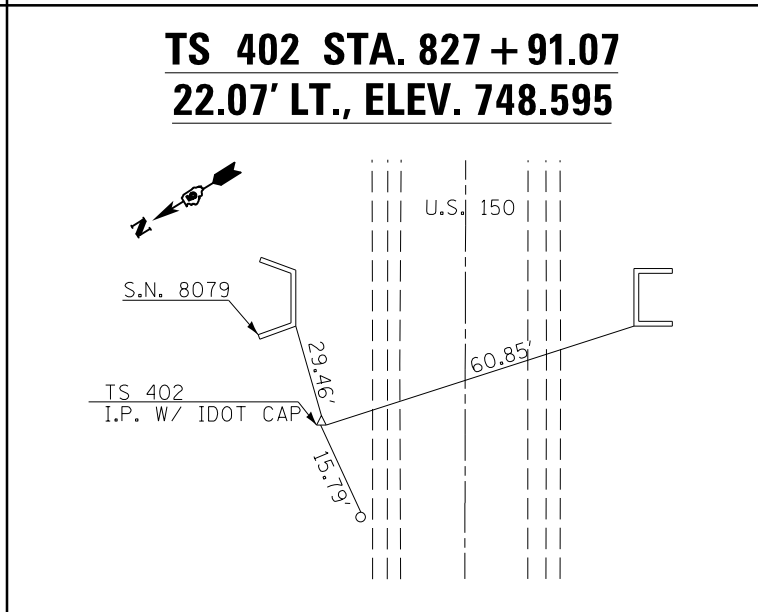
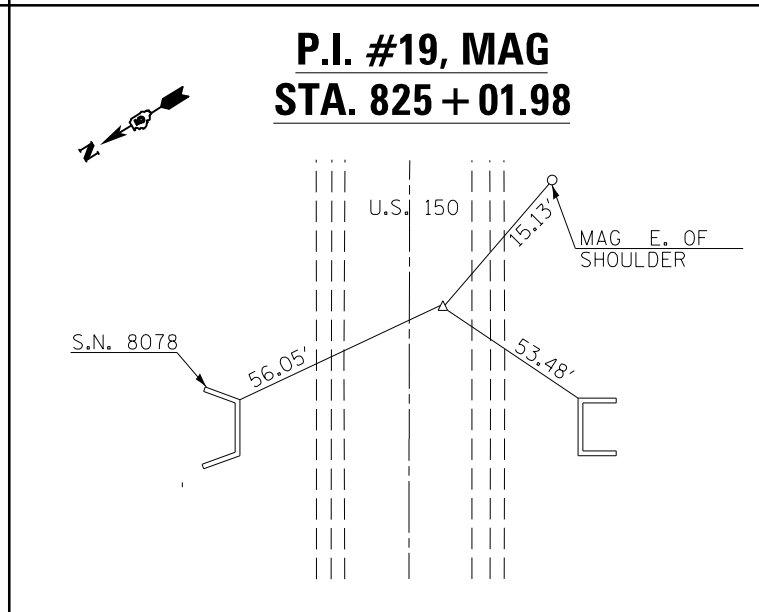
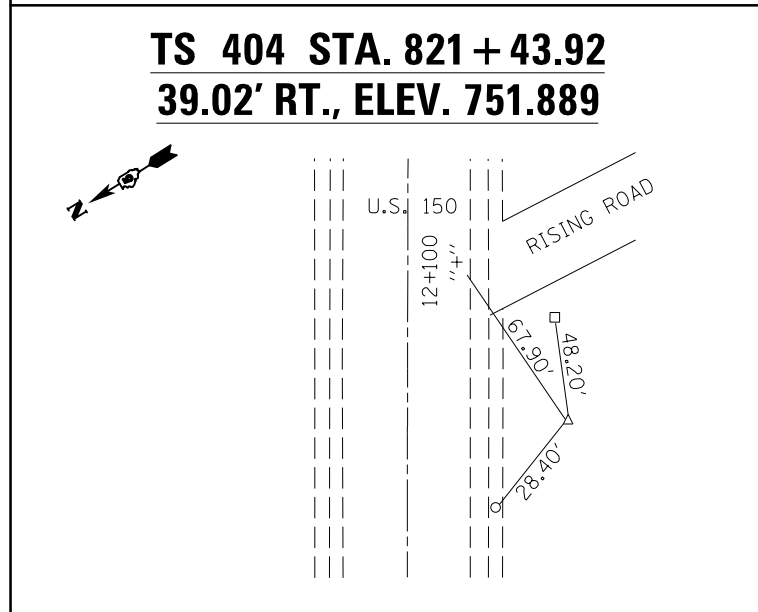
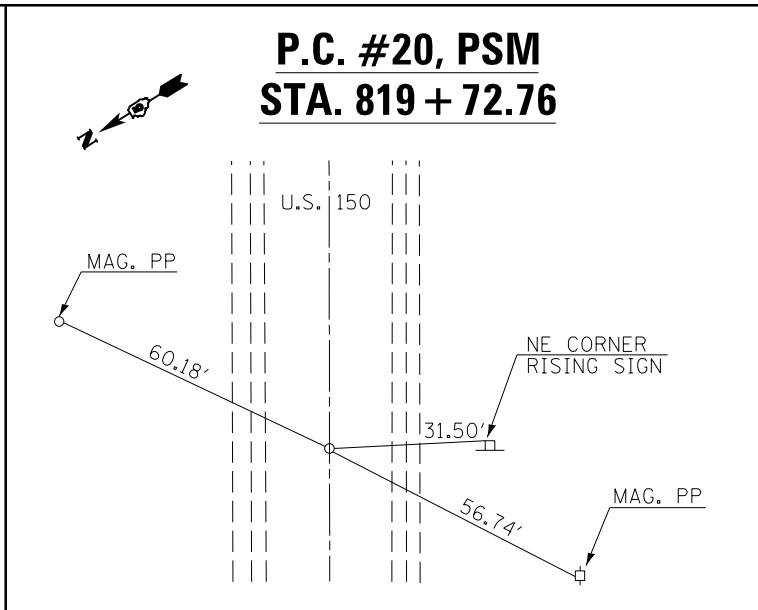
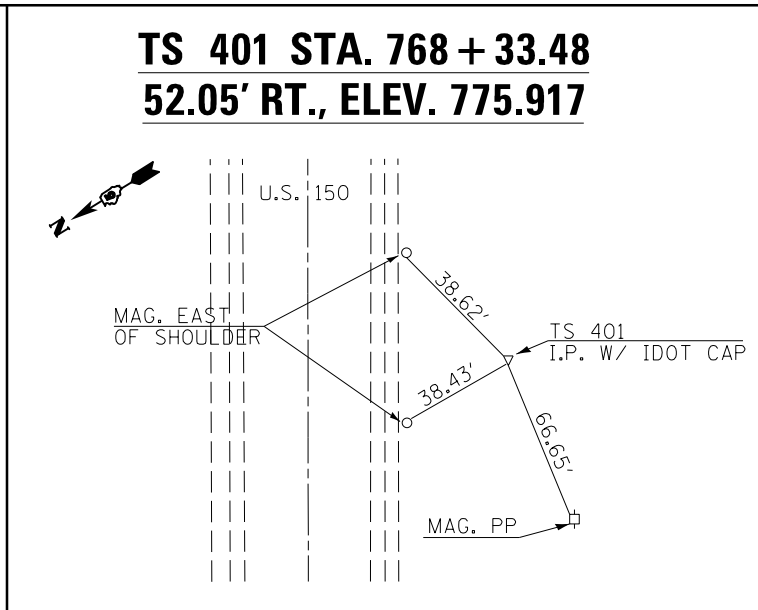
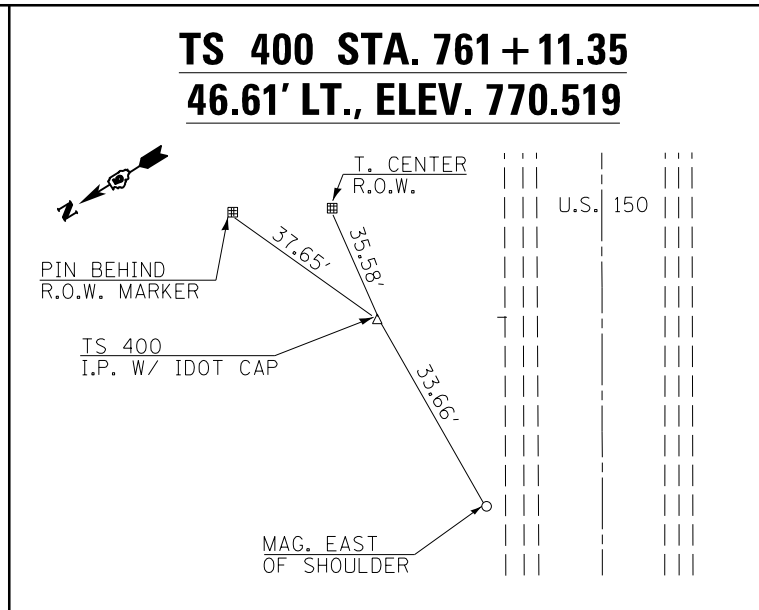
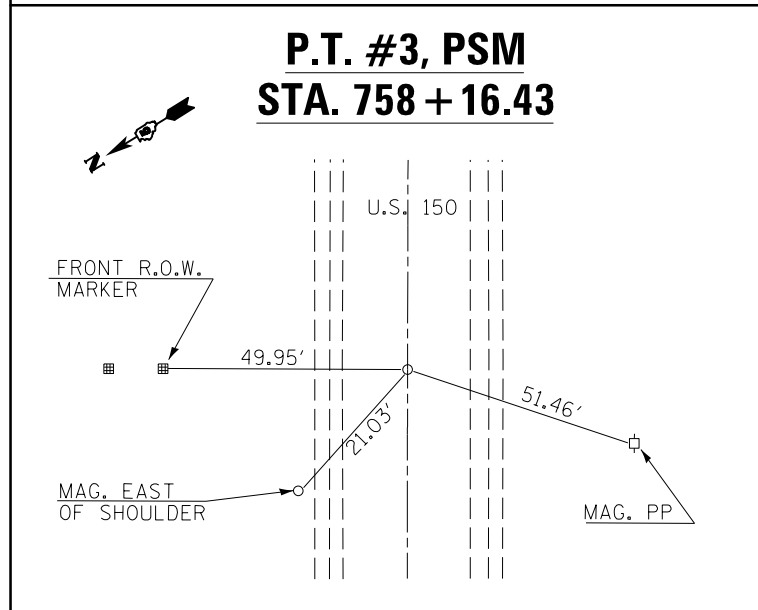
X7040125 PINNING TEMPORARY CONCRETE BARRIER							
LOCATON		STA	TO	STA	BARRIERS EACH	PINS (EACH)	
CULVERT 1	STAGE ONE	825+22.00		825+34.50	1.0	3.0	
		827+00.00		827+12.50	1.0	3.0	
		827+89.00		828+39.00	4.0	12.0	
CULVERT 2	STAGE TWO	827+00.00		827+50.00	4.0	12.0	
		SUB-TOTAL =					30
		887+10.00		887+85.00	6.0	18.0	
CULVERT 3	STAGE ONE	887+10.00		887+50.00	6.0	18.0	
		SUB TOTAL =					36
		900+62.50		901+12.50	4.0	12.0	
CULVERT 3	STAGE TWO	900+52.50		901+02.50	4	12	
		901+90.00		902+02.50	1	3	
		903+27.00		903+39.50	1	3	
		SUB-TOTAL =					30.0
TOTAL =						96.0	

SCHEDULE OF QUANTITIES

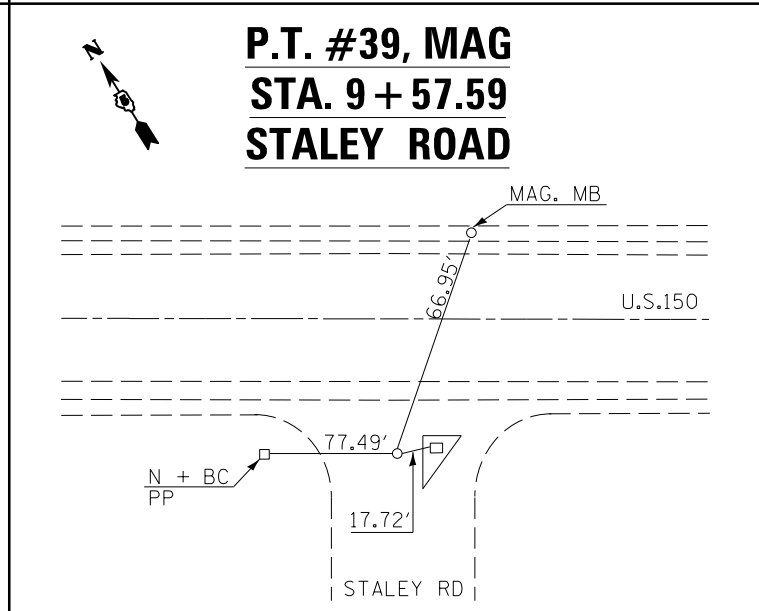
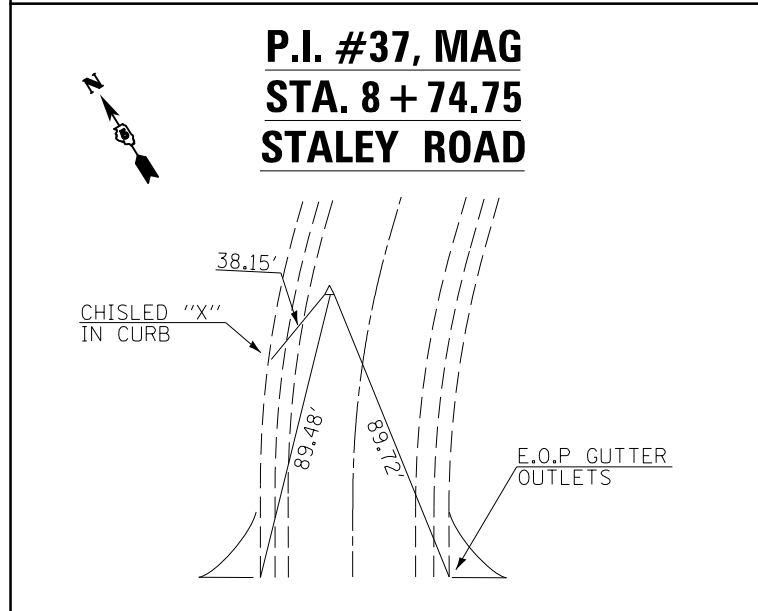
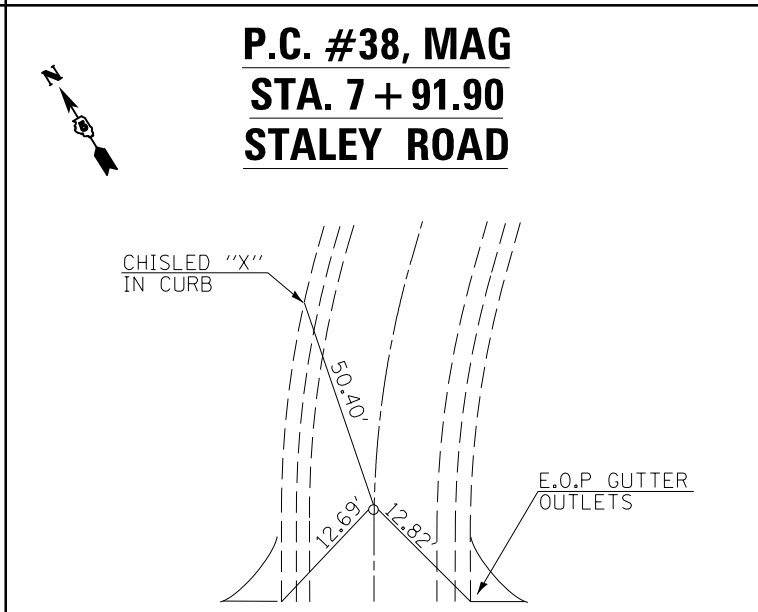
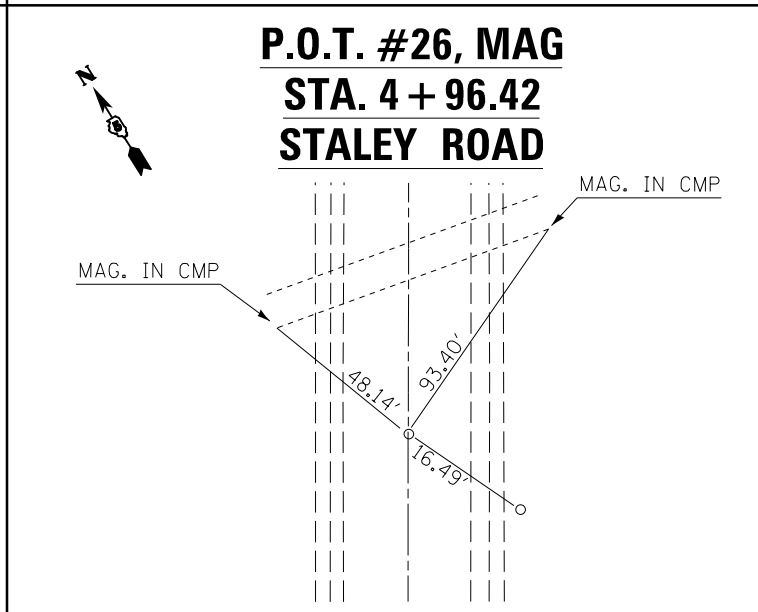
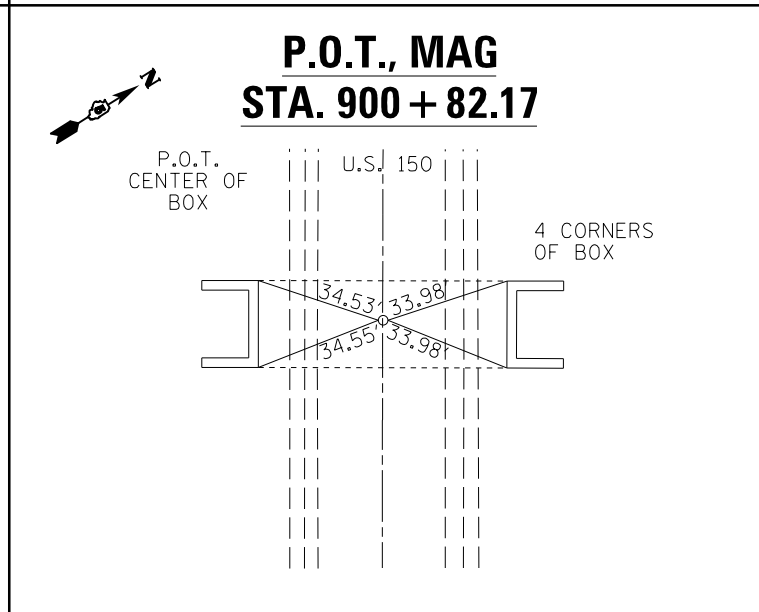
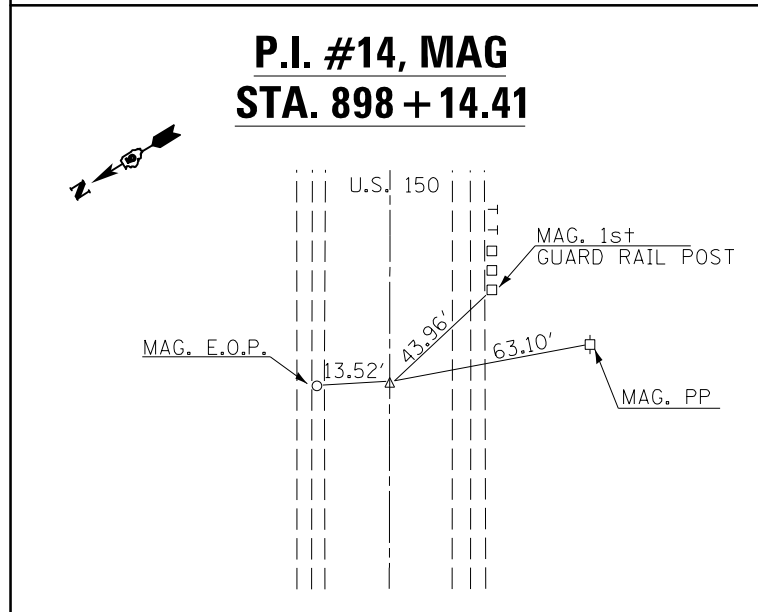
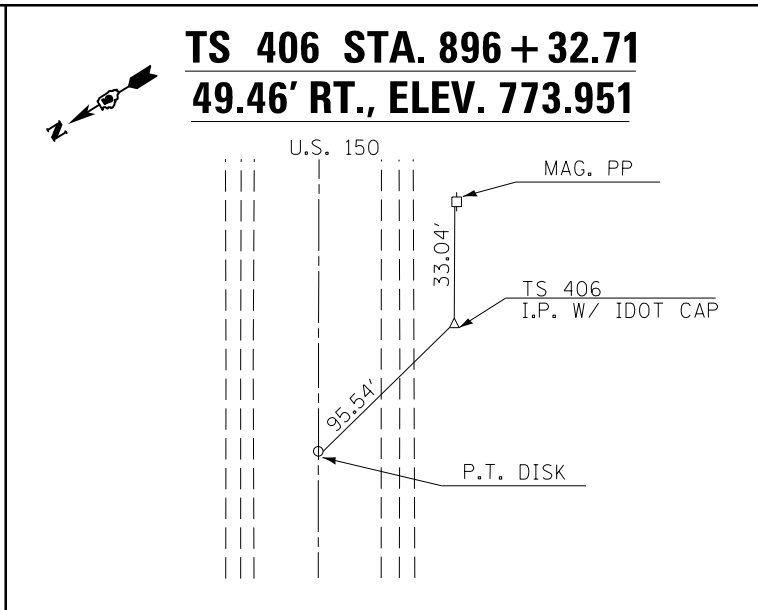
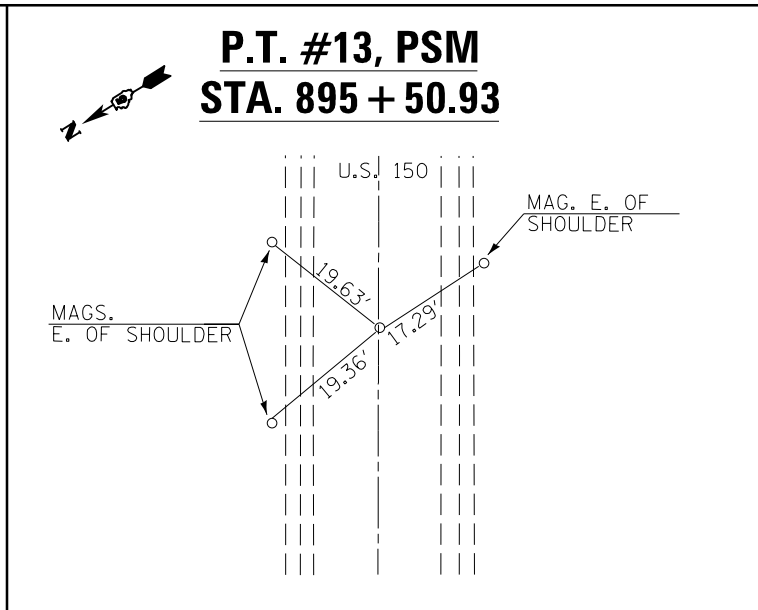
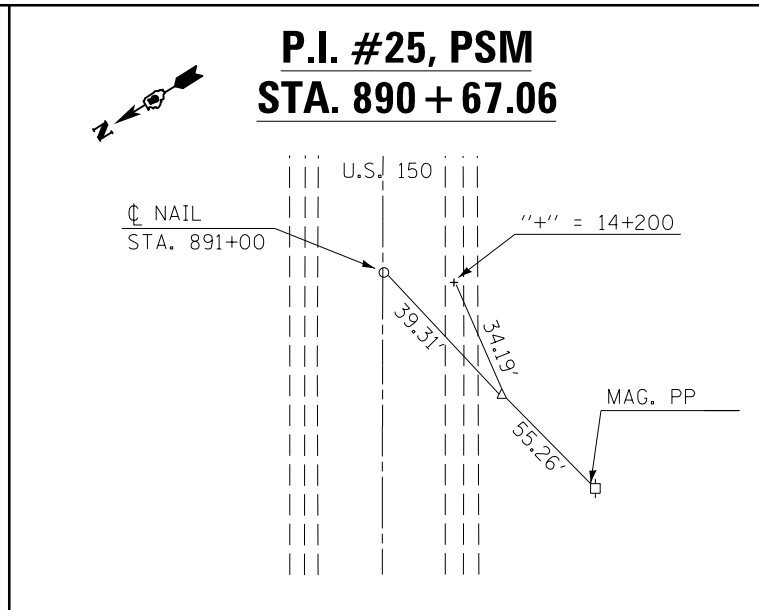
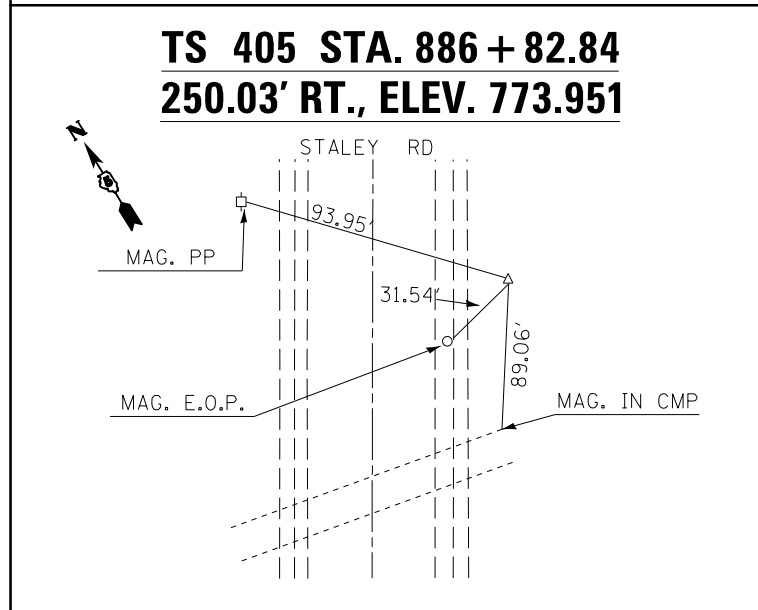
		70400100 TEMPORARY CONCRETE BARRIER		70400200 RELOCATE TEMPORARY CONCRETE BARRIER		70400100 TEMPORARY CONCRETE BARRIER (FOOT)		70400200 RELOCATE TEMPORARY CONC. BARRIER (FOOT)		
LOCATION		STA.	OFFSET	TO	STA.	OFFSET				
CULVERT 1	STAGE ONE	823+85.00	8.0 (R)		825+22.00	3.0 (L)	137.5		0.0	
		825+22.00	3.0 (L)		825+34.50	3.0 (L)	12.5		0.0	
		827+00.00	3.0 (L)		829+00.00	3.0 (L)	200.0		0.0	
		829+00.00	3.0 (L)		830+37.00	8.0 (R)	137.5		0.0	
	STAGE TWO	825+63.00	8.0 (L)		827+00.00	3.0 (R)	0.0		137.5	
		827+00.00	3.0 (R)		829+00.00	3.0 (R)	0.0		200.0	
		829+00.00	3.0 (R)		830+37.00	8.0 (L)	0.0		137.5	
								SUB-TOTAL =	487.5	475.0
	CULVERT 2	STAGE ONE	886+66.00	19.0 (R)		887+10.00	2.0 (L)	50.0		0.0
			887+10.00	2.0 (L)		888+22.50	2.0 (L)	112.5		0.0
888+22.50			2.0 (L)		889+58.00	15.0 (R)	237.5		0.0	
STAGE TWO		886+34.00	8.0 (L)		887+10.00	8.5 (R)	0.0		75.0	
		887+10.00	8.5 (R)		888+22.50	8.5 (R)	0.0		112.5	
		888+22.50	8.5 (R)		889+84.00	8.0 (L)	0.0		162.5	
								SUB-TOTAL =	400.0	350.0
CULVERT 3		STAGE ONE	898+28.00	7.0 (R)		899+90.00	7.5 (L)	162.5		0.0
			899+90.00	7.5 (L)		901+77.50	7.5 (L)	187.5		0.0
			901+77.50	7.5 (L)		903+39.00	7.0 (R)	162.5		0.0
	STAGE TWO	898+53.00	8.0 (L)		899+90.00	2.5 (R)	0.0		137.5	
		899+90.00	2.5 (L)		902+02.50	2.5 (R)	0.0		212.5	
		903+12.50	2.5 (R)		903+25.00	2.5 (R)	0.0		12.5	
		903+25.00	2.5 (R)		904+37.00	8.0 (R)	0.0		112.5	
								SUB-TOTAL =	512.5	475
							TOTAL =	1400.0	1300.0	

		70600250 IMPACT ATTENUATORS, TEMPORARY (NON REDIRECTIVE), TEST LEVEL 3		70600251 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3		70600350 IMPACT ATTENUATORS, RELOCATE (NON REDIRECTIVE), TEST LEVEL 3		70600250 IMPACT ATTENUATORS (EACH)		70600350 IMPACT ATTENUATORS RELOCATE (EACH)		70600251 NARROW IMPACT ATTENUATORS (EACH)			
LOCATION		STA	OFFSET												
CULVERT 1	STAGE ONE	823+85.00	8.0 (R)					1.0		0.0		0.0			
		825+34.50	3.0 (L)					0.0		0.0		1.0			
		827+00.00	3.0 (L)					0.0		0.0		0.0			
		830+37.00	8.0 (R)					1.0		0.0		0.0			
	STAGE TWO	825+63.00	8.0 (L)						0.0		1.0		0.0		
		830+37.00	8.0 (L)						0.0		1.0		0.0		
								SUB-TOTAL =	2.0		2.0		2.0		
								TOTAL =	6.0		6.0		4.0		
	CULVERT 2	STAGE ONE	886+66.00	19.0 (R)					1.0		0.0		0.0		
			890+58.00	15.0 (R)					1.0		0.0		0.0		
STAGE TWO		886+34.00	8.0 (L)						0.0		1.0		0.0		
		889+84.00	8.0 (L)						0.0		1.0		0.0		
								SUB-TOTAL =	2.0		2.0		0.0		
								TOTAL =	6.0		6.0		4.0		
CULVERT 3		STAGE ONE	898+28.00	7.0 (R)					1.0		0.0		0.0		
			903+39.00	7.0 (R)					1.0		0.0		0.0		
		STAGE TWO	898+53.00	8.0 (L)						0.0		1.0		0.0	
			902+02.50	2.5 (R)						0.0		0.0		1.0	
	903+12.50		2.5 (R)						0.0		0.0		1.0		
	904+37.00		8.0 (L)						0.0		1.0		0.0		
							SUB-TOTAL =	2.0		2.0		2.0			
							TOTAL =	6.0		6.0		4.0			

ALIGNMENTS, TIE POINTS & BENCHMARKS



ALIGNMENTS, TIE POINTS & BENCHMARKS



BENCH MARK DESCRIPTION

BENCH MARK: 4838-1

CHISELED SQUARE ON TOP OF CENTER OF SOUTH CONCRETE END SECTION OF A.R.B.C, STA. 900+83.42, 34.26' RT., ELEVATION 769.552.

FILE NAME =	USER NAME = BakerCR	DESIGNED - CRB	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-ATB.dgn		CHECKED -	REVISED -
MODELNAME	PLOT SCALE = 40.0000' / in.	DATE - 1-15-2015	REVISED -
	PLOT DATE = 3/21/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIE POINTS & BENCHMARKS

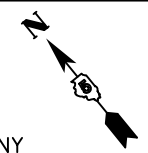
SCALE: N/A SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	26
CONTRACT NO. 70620				
ILLINOIS FED. AID PROJECT				

SEC. 29, T. 20 N., R. 8 E., 3RD P.M.

5446001
ROSS MATTIS PROPERTIES, LLC.
AN ILLINOIS LIMITED LIABILITY COMPANY

5446001
ROSS MATTIS PROPERTIES, LLC.
AN ILLINOIS LIMITED LIABILITY COMPANY

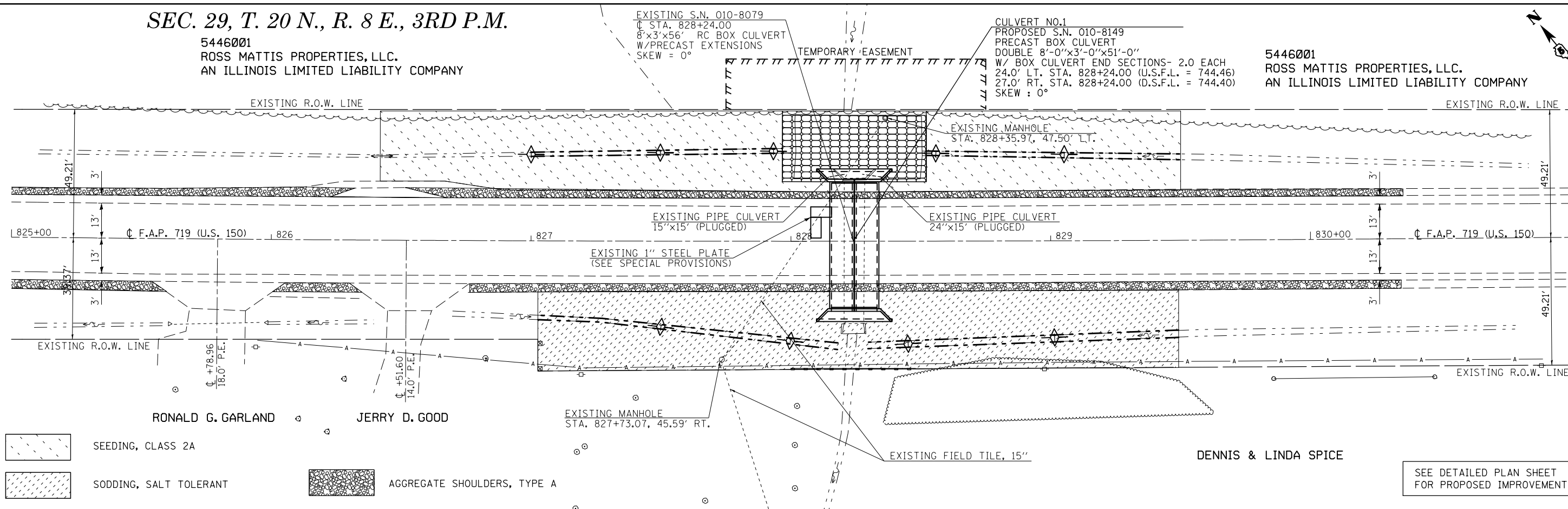


PLAN

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
CADD FILE NAME	

PROFILE

DATE	
BY	
SURVEYED	
GRADES CHECKED	
STRUCTURE	
NOTATIONS CHECKED	



SEEDING, CLASS 2A

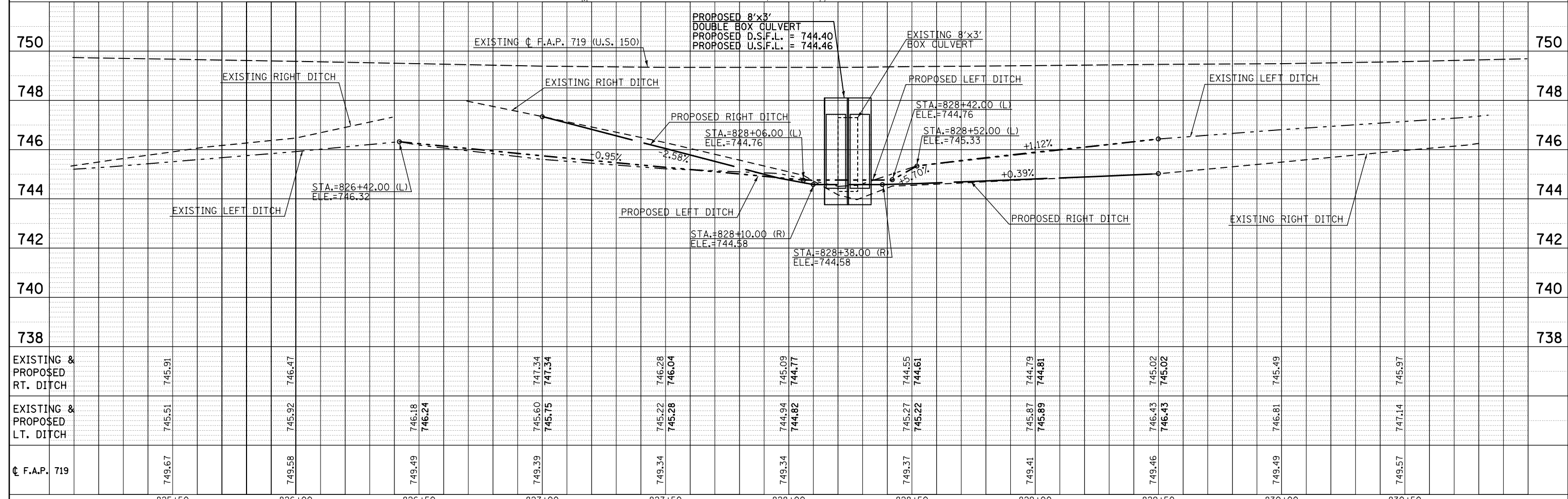
SODDING, SALT TOLERANT

AGGREGATE SHOULDERS, TYPE A

RONALD G. GARLAND
JERRY D. GOOD

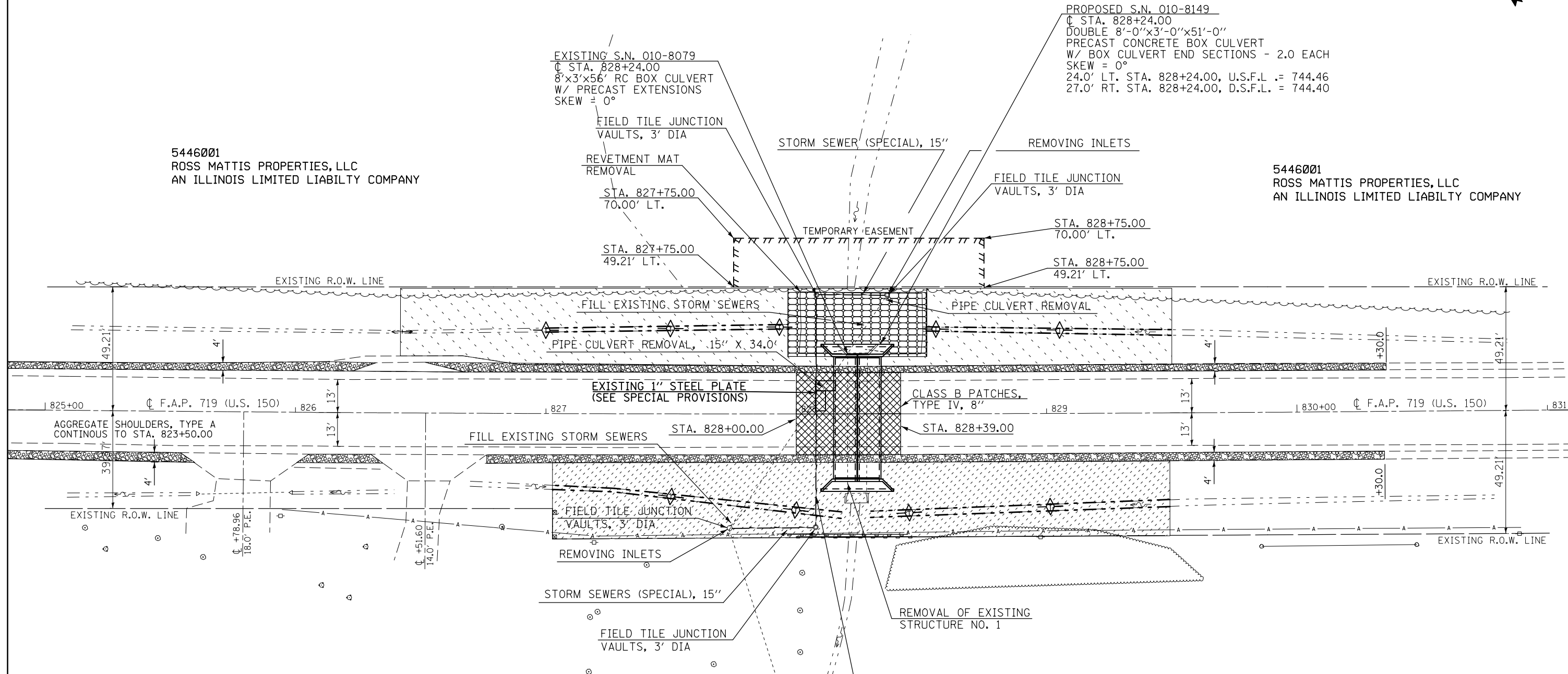
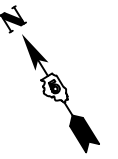
DENNIS & LINDA SPICE

SEE DETAILED PLAN SHEET FOR PROPOSED IMPROVEMENTS.



FILE NAME	USER NAME = BakerCR	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SHEET CULVERT NO. 1/PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
825+50	826+00	826+50	827+00	827+50	828+00	828+50	829+00	829+50	830+00	830+50	719	13CR	CHAMPAIGN	109	27
SCALE: 1" = 20'										SHEET 2 OF 12 SHEETS	STA. 825+00.00 TO STA. 831+00.00		ILLINOIS FED. AID PROJECT		

**DETAILED PLAN SHEET
CULVERT NO. 1**





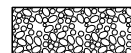


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AN ILLINOIS LIMITED LIABILITY COMPANY

5446001
ROSS MATTIS PROPERTIES, LLC
AN ILLINOIS LIMITED LIABILITY COMPANY

RONALD G. GARLAND

JERRY D. GOOD

DENNIS & LINDA SPICE

-  SEEDING, CLASS 2A
-  SODDING, SALT TOLERANT
-  AGGREGATE SHOULDERS, TYPE A
-  CLASS B PATCHES, TYPE IV, 8"
-  FABRIC FORMED CONCRETE REVETMENT MAT

NOTE:
AREAS SHOWN FOR SEEDING AND SODDING ARE FOR REPRESENTATION ONLY. SEE EROSION CONTROL SHEET FOR STATION LAYOUT.

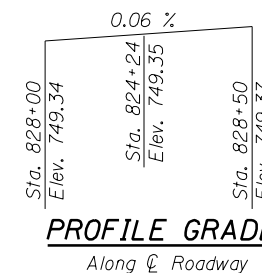
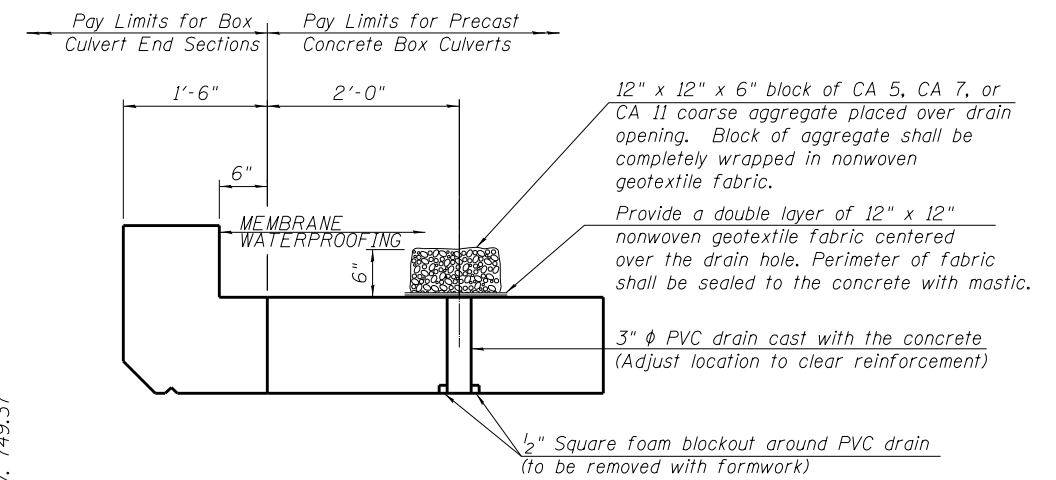
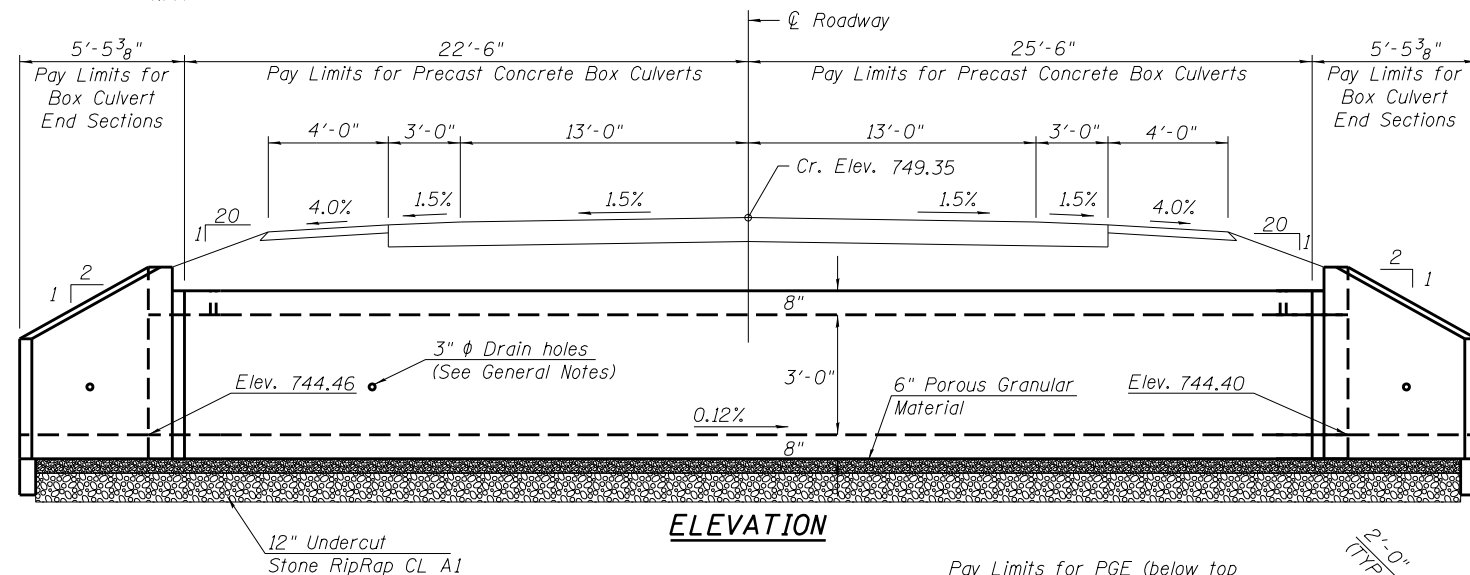
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -			SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.		CONTRACT NO. 70620		ILLINOIS FED. AID PROJECT
	PLOT DATE = 3/21/2018									

Existing Structure: S.N. 010-8079 is an 8'x3' R.C. Box Culvert that was originally built in 1925 as part of Route 39, Section 13, at Sta. 828+20. In 1980, the culvert was extended on each end as part of FAS 1518 & FAP 719, Section 12.13(W-1 RS-1), Sta. 828+26. The culvert was again extended on the south side in 1998 as part of FAS 1518 & FAP 719, Section 12(RS-3,B-1) & 13RS-2, Sta. 12+286.33. The existing structure is to be completely removed and replaced. There will be no salvage of any materials. Stage Construction will be utilized.

Benchmark: N/A

GENERAL NOTES

The design fill height for this box is 1.0 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577. 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.



(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

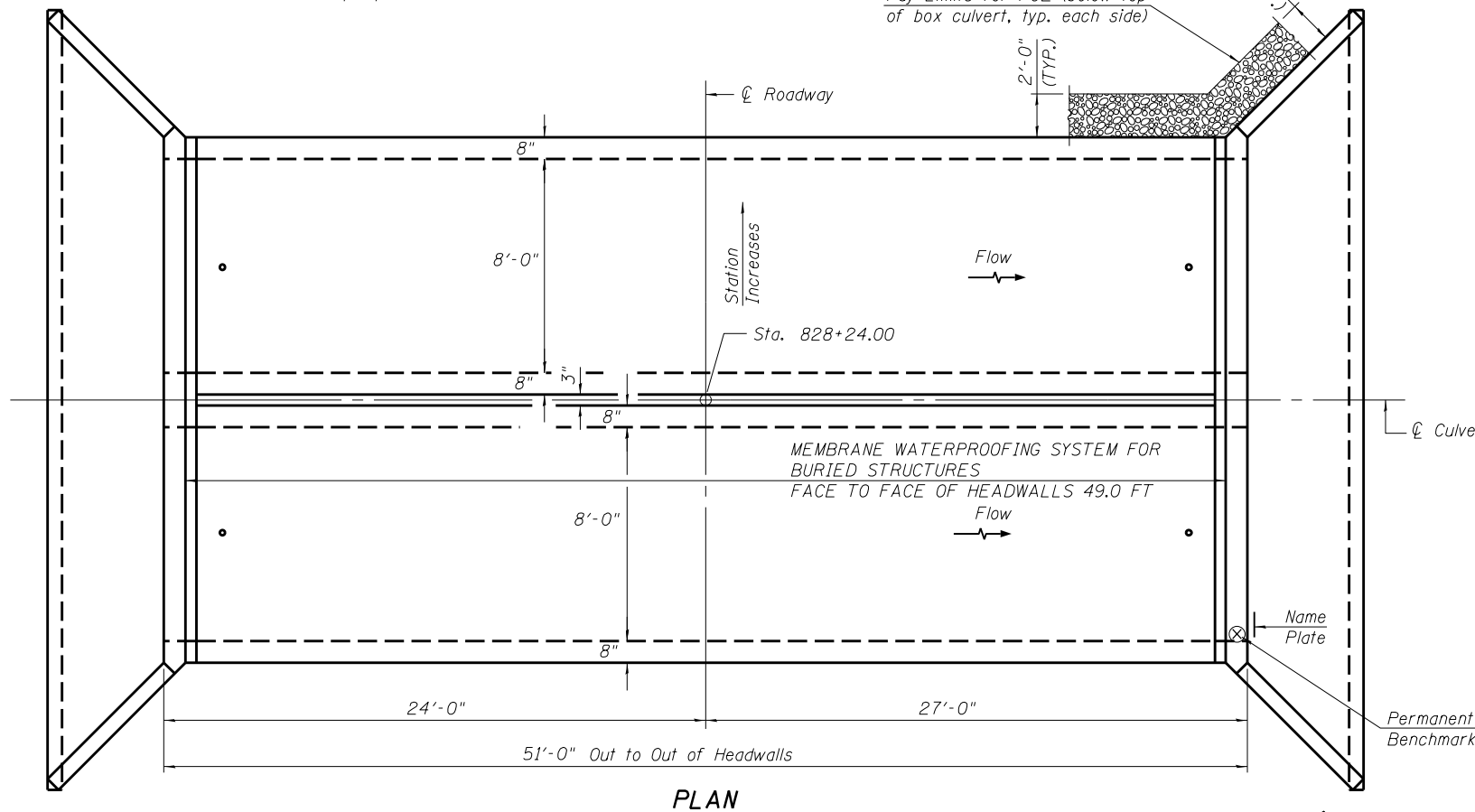
DESIGN STRESSES

PRECAST UNITS
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

FIELD UNITS
f'c = 3,500 psi
fy = 65,000 psi (Welded Wire Fabric)

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, 8'x3'	Foot	96.0
Porous Granular Embankment	Cu. Yd.	194.0
Stone RipRap, Class A1	Ton	93.0
Membrane Waterproofing System for Buried Structures	Sq Yd	114.0



WATERWAY INFORMATION

Drainage Area = 0.234 sq. mi. Low Grade Elev. = 749.34 @ Sta. 827+80

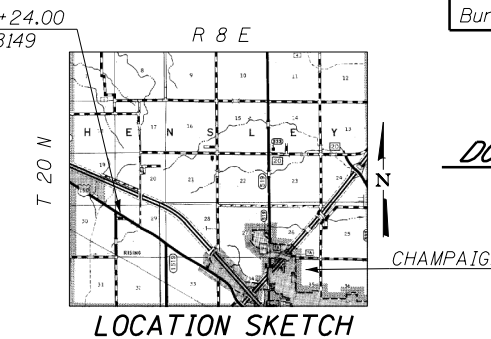
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	171	24	43			749.03	747.13	
Base	50	297	24	48			Over	748.04	
Overtopping	100	357	24	48			Over	748.66	
Max. Calc.	500	507	24	48			Over	Over	

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	741.46	741.40

STATION 828+24.00
BUILT BY
STATE OF ILLINOIS
F.A.P. 719 SEC. 13CR
LOADING HL-93
STR. NO. 010-8149

NAME PLATE
See Std. 515001



**GENERAL PLAN AND ELEVATION
DOUBLE 8'x3' PRECAST BOX CULVERT
F.A.P. 719 SEC. 13CR
CHAMPAIGN COUNTY
STATION 828+24.00
S.N. 010-8149**

CULVERT NO. 1 PROPOSED S.N. 010-8149

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.

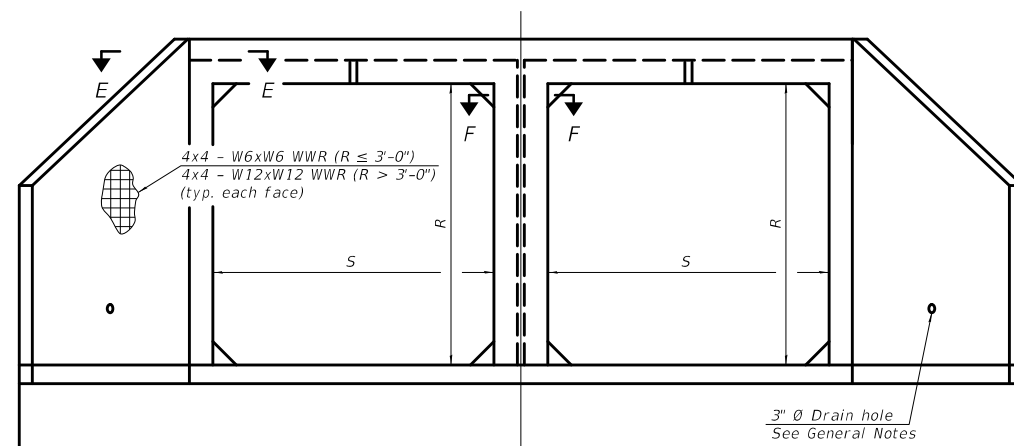
The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible 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'.

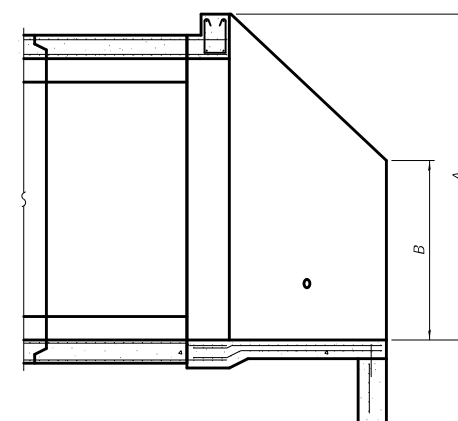
The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided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

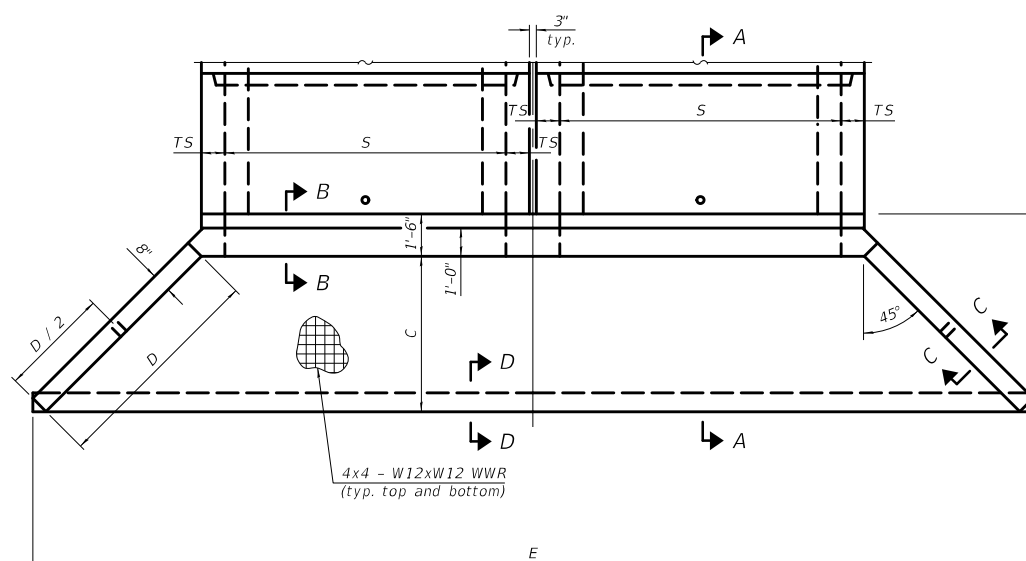
One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



END VIEW



SECTION A-A



PLAN

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt, Tb, & Ts	Double Cell					Triple Cell		
			A	B	C	D	E	Concrete Cu. Yd.	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 1/2"	8.0		
7'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	27'-9 1/2"	9.5		
7'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	29'-9 1/2"	11.2		
7'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	31'-9 1/2"	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 1/2"	8.6		
8'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	29'-9 1/2"	10.2		
8'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	31'-9 1/2"	11.9		
8'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	33'-9 1/2"	13.8		
9'-0"	2'-0"	9"	3'-6"	2'-3"	3'-0 1/2"	4'-4"	28'-3 3/8"	8.2	39'-0 1/2"	11.4
9'-0"	3'-0"	9"	4'-6"	2'-9"	4'-0 1/2"	5'-9"	30'-3 3/8"	9.7	41'-0 1/2"	13.3
9'-0"	4'-0"	9"	5'-6"	3'-3"	5'-0 1/2"	7'-2"	32'-3 3/8"	11.4	43'-0 1/2"	15.4
9'-0"	5'-0"	9"	6'-6"	3'-9"	6'-0 1/2"	8'-7"	34'-4"	13.2	45'-1"	17.6
9'-0"	6'-0"	9"	7'-6"	4'-3"	7'-0 1/2"	9'-11"	36'-2 3/8"	15.1	46'-11 3/8"	19.8
10'-0"	2'-0"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	30'-9 1/2"	9.2	42'-8 1/2"	13.0
10'-0"	3'-0"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	32'-9 1/2"	10.8	44'-8 1/2"	15.0
10'-0"	4'-0"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	34'-9 3/8"	12.6	46'-8 3/8"	17.2
10'-0"	5'-0"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	36'-9 3/8"	14.5	48'-8 3/8"	19.5
10'-0"	6'-0"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	38'-9 3/8"	16.6	50'-8 3/8"	22.0
11'-0"	2'-0"	11"	3'-8"	2'-4"	3'-2 1/2"	4'-7"	33'-4 1/2"	10.4	46'-5 1/2"	14.7
11'-0"	3'-0"	11"	4'-8"	2'-10"	4'-2 1/2"	6'-0"	35'-4 1/2"	12.1	48'-5 1/2"	16.9
11'-0"	4'-0"	11"	5'-8"	3'-4"	5'-2 1/2"	7'-4"	37'-2 3/4"	13.9	50'-3 3/4"	19.1
11'-0"	5'-0"	11"	6'-8"	3'-10"	6'-2 1/2"	8'-9"	39'-2 1/2"	15.8	52'-3 1/2"	21.4
11'-0"	6'-0"	11"	7'-8"	4'-4"	7'-2 1/2"	10'-2"	41'-2 1/2"	18.1	54'-3 1/2"	24.2
12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	35'-9 1/2"	11.6	50'-0 1/2"	16.5
12'-0"	3'-0"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	37'-9 1/2"	13.4	52'-0 1/2"	18.8
12'-0"	4'-0"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	39'-9 3/8"	15.4	54'-0 3/8"	21.2
12'-0"	5'-0"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	41'-9 3/8"	17.6	56'-0 3/8"	23.8
12'-0"	6'-0"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	43'-9 3/8"	19.8	58'-0 3/8"	26.6

(Sheet 1 of 2)

MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO. 010-8149

MCB-AES

2-17-2017

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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MODELNAME				DATE -	REVISED -					ILLINOIS FED. AID PROJECT		

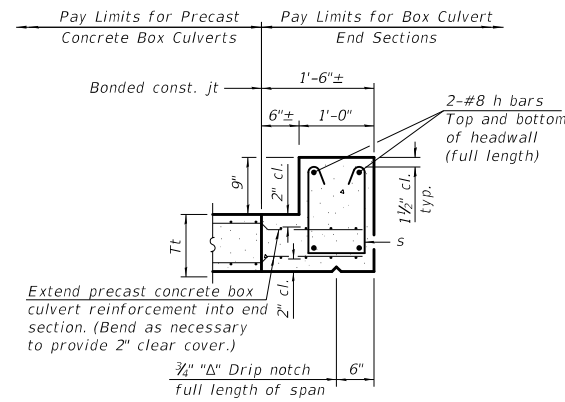
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE BOX CULVERT APRON END SECTION DETAILS
CULVERT NO. 1 / PROPOSED S.N. 010-8149**

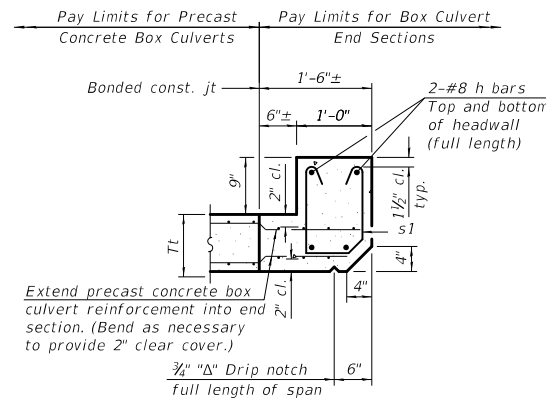
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CULVERT NO. 1

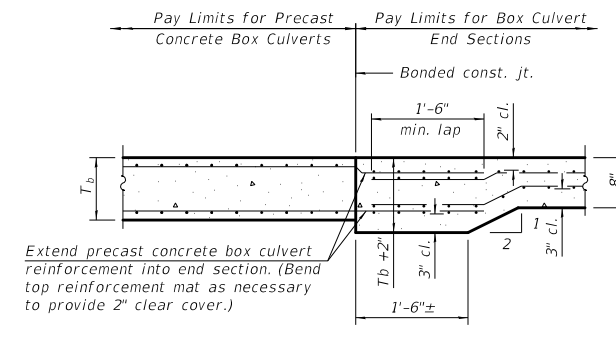
PROPOSED S.N. 010-8149



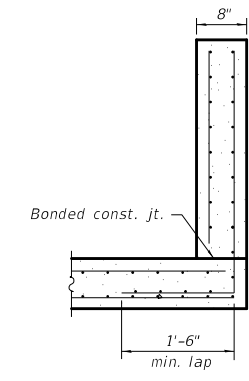
SECTION B-B
(Top slab at downstream end)



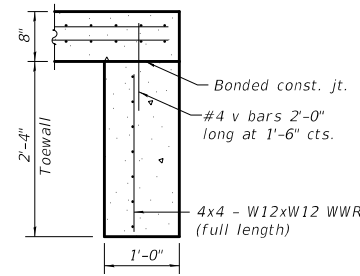
SECTION B-B
(Top slab at upstream end)



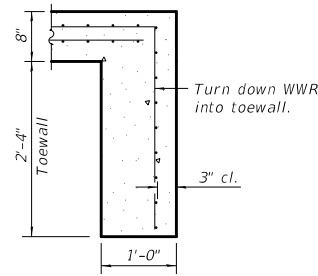
SECTION B-B
(Bottom slab)



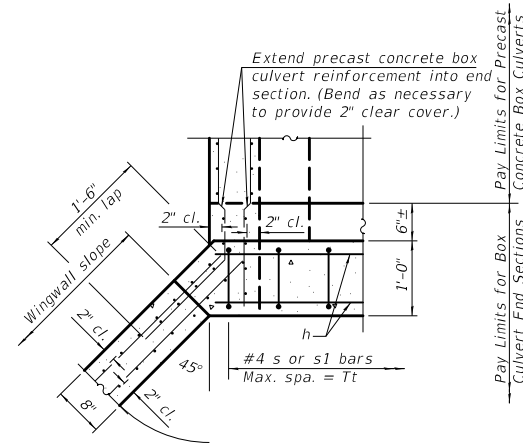
SECTION C-C



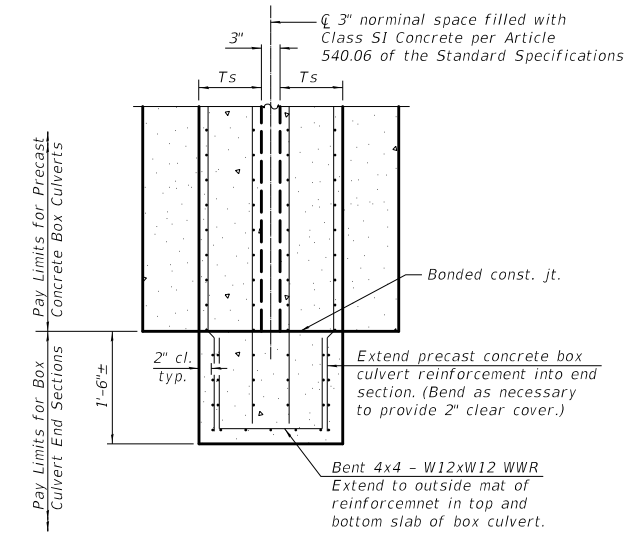
SECTION D-D



ALT. SECTION D-D



SECTION E-E



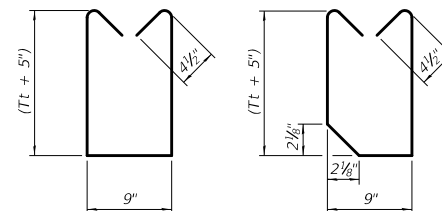
SECTION F-F

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.



BAR s

BAR s1

MCB-AES

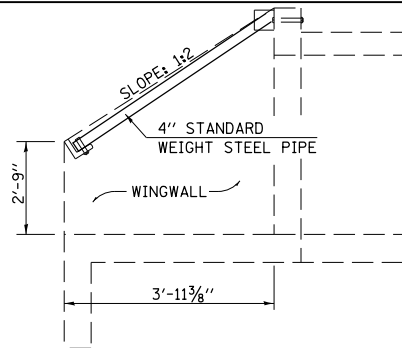
2-17-2017

(Sheet 2 of 2)

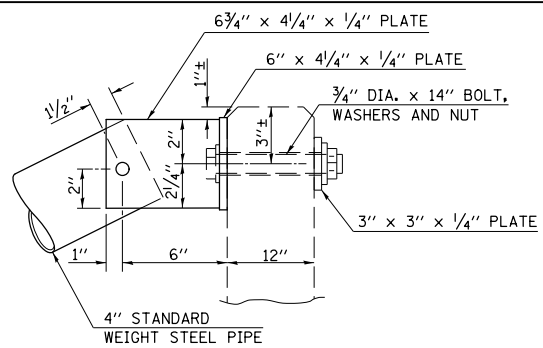
MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO. 010-8149

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE BOX CULVERT APRON END SECTION DETAILS CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05798\Drawings\Design\0570620-shr-Details.dwg						DRAWN	719	13CR	CHAMPAIGN	109	31
PLOT SCALE = 40.0000' / in.						CHECKED -	CONTRACT NO. 70620				
PLOT DATE = 3/21/2018						DATE -	ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 5 OF 12 SHEETS		STA. TO STA.							

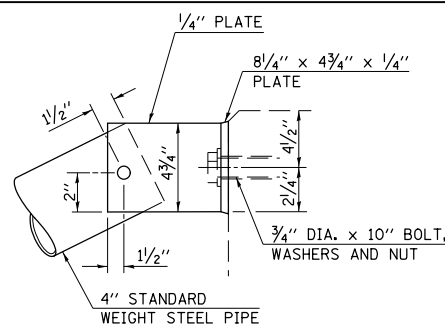
GRATING DETAIL FOR CONCRETE HEADWALL CULVERT NO. 1 / PROPOSED S.N. 010-8149



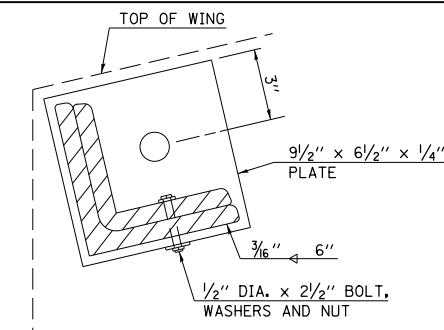
SECTION A - A



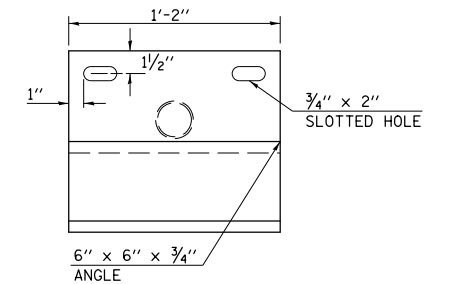
ELEVATION AT HEADWALL



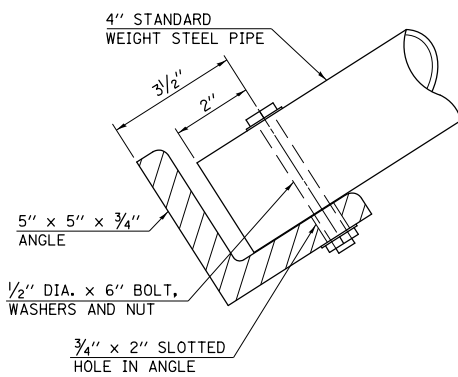
ELEVATION AT WINGWALL



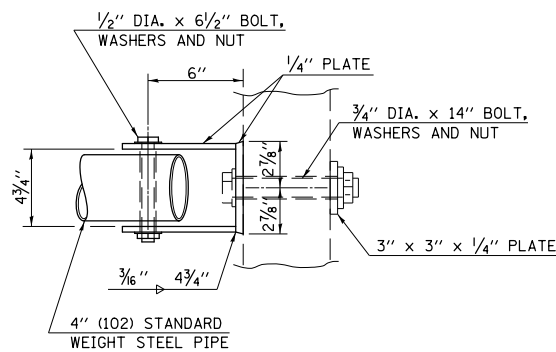
ELEVATION AT END OF WINGWALL



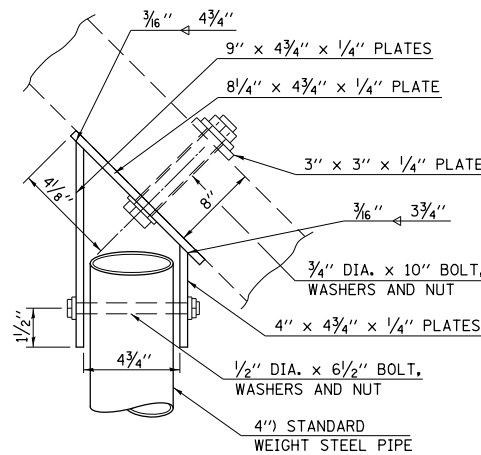
PLAN VIEW OF SUPPORT
(TWO REQ'D. AT GRATING)



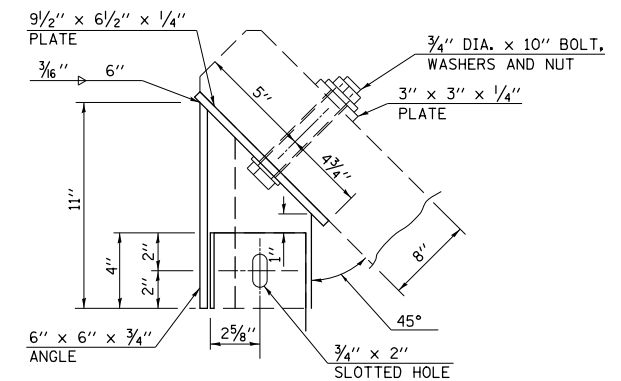
SECTION B - B



PLAN AT HEADWALL



PLAN AT WINGWALL



PLAN AT END OF WINGWALL

GENERAL NOTES

- BOLTS AND NUTS SHALL CONFORM TO A.S.T.M. A 307. ALL BOLTS SHALL HAVE WASHERS AT EACH END. HOLES SHALL BE 1/16" OVERSIZED UNLESS OTHERWISE NOTED EXCEPT IN CONCRETE WHICH SHALL BE 1/8" OVERSIZED.
- ANGLES AND STEEL PLATES SHALL CONFORM TO A.A.S.H.T.O. M 183. STEEL PIPES SHALL CONFORM TO A.S.T.M. A 53, GRADE B OR A.S.T.M. A 501.
- STEEL PIPES, ANGLES AND PLATES SHALL BE HOT DIPPED GALVANIZED CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O. M 111.
- BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O. M 232.
- THE APPROXIMATE WEIGHT OF THE STEEL IS 1450.00 POUNDS. THIS TOTAL INCLUDES PLATES, ANGLES AND PIPES. BOLTS, NUTS AND WASHERS ARE NOT INCLUDED.
- ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD. CUTTING OF THE STANDARD WEIGHT PIPE AND ANGLES TO THE EXACT LENGTH AND DRILLING HOLES IS TO BE DONE IN THE FIELD.
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "GRATING FOR BOX CULVERT" WHICH PRICE SHALL INCLUDE ALL MATERIAL AND LABOR TO COMPLETE THE INSTALLATION AS SHOWN.

BILL OF MATERIAL

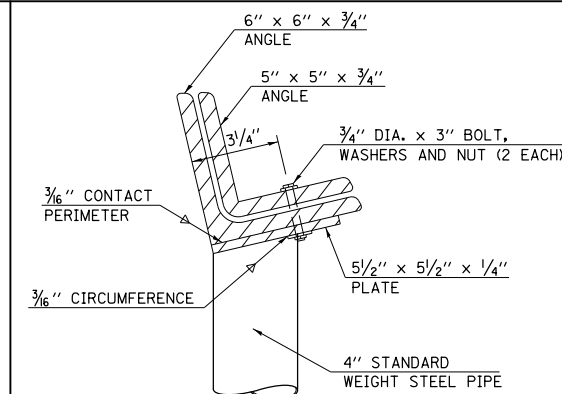
1/4" STEEL PLATES				
SIZE (INCHES)	QUANTITY	SQ INCH	11.26 LB/SQ FT	
6.75	4.25	20.0	573.75	44.86
6.00	4.25	10.0	255.00	19.94
3.00	3.00	12.0	108.00	8.45
8.25	4.75	2.0	78.38	6.13
9.00	4.75	2.0	85.50	6.69
4.00	4.75	2.0	38.00	2.97
9.50	6.50	2.0	123.50	9.66
5.50	5.50	2.0	60.50	4.73
9.00	9.00	2.0	162.00	12.67
TOTAL			116.09	

NUMBER OF CENTER SUPPORTS REQUIRED		
W.W. SPAN (TIP-TIP)	NUMBER REQUIRED	SPACING
0' TO 12'-6"	0	-
12'-6" TO 18'-0"	1	CENTER OF W.W. SPAN
OVER 18'-0"	(1 CENTER SUPPORT EVERY ADDITIONAL 6'-0" OF W.W. SPAN)	

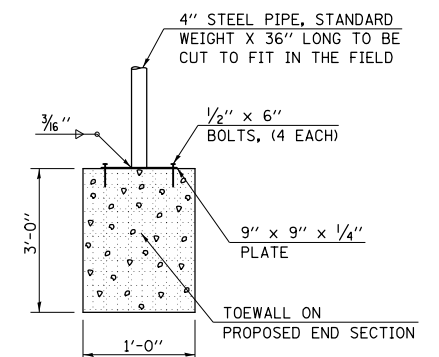
4" STD STL PIPE		
QUANTITY	LENGTH	10.79 LB/FT
10.0	4.29	462.89
2.0	2.63	56.76
SUPPORTS		
2.0	2.75	59.35
TOTAL		578.99

6x6x3/4 ANGLE		
QUANTITY	LENGTH	28.7 LB/FT
2.0	1.17	67.16
2.0	0.92	52.81
TOTAL		119.97

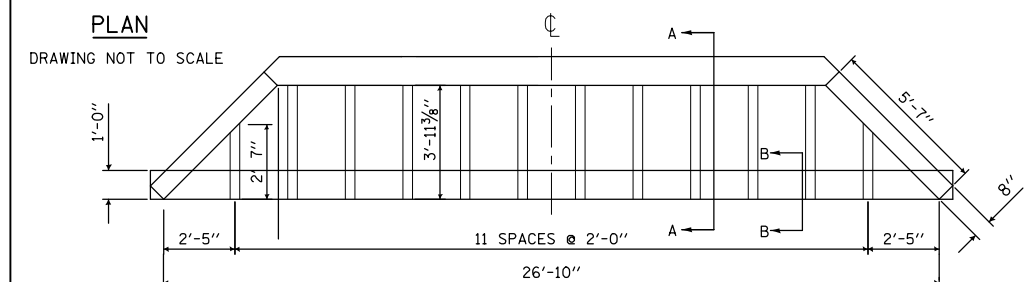
5x5x3/4 ANGLE		
LENGTH	QUANTITY	23.6 LB/FT
26.83	1.0	633.19
TOTAL		633.19



END VIEW OF SUPPORT
(TWO REQ'D. AT GRATING)



CENTER SUPPORT PLATE
(TWO REQ'D. AT GRATING)

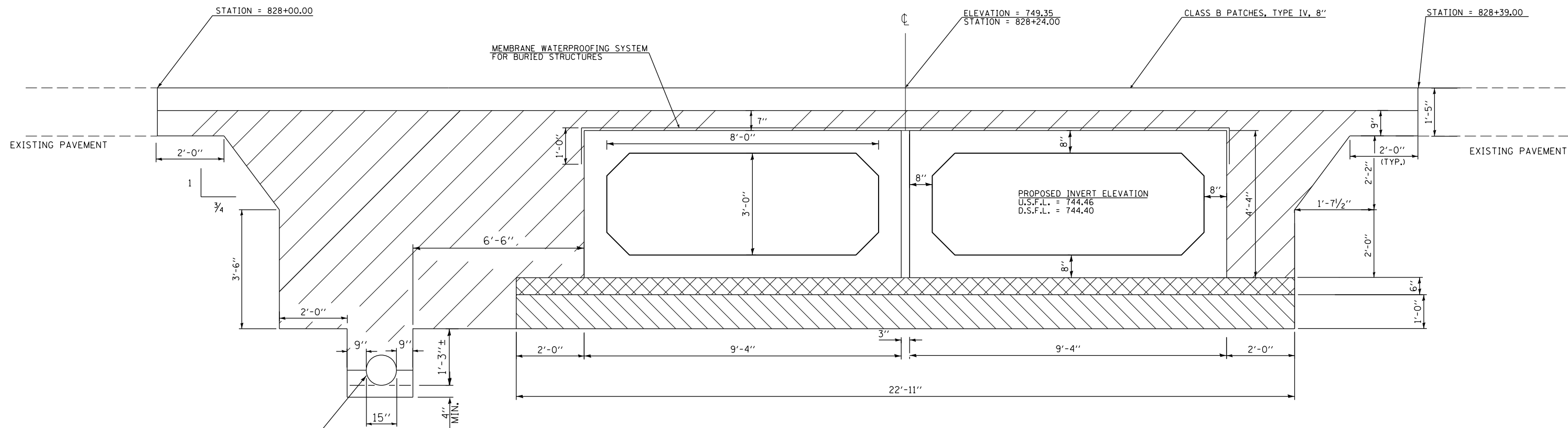


BILL OF MATERIAL

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	194.0
STONE RIPRAP, CLASS A1	TON	93.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	114.0

**POROUS GRANULAR EMBANKMENT DETAIL
CULVERT NO. 1 / PROPOSED S.N. 010-8149**

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



STORM SEWER PROTECTED,
CLASS A, 15"

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

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.

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.

MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

SEE SPECIAL PROVISION

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

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

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

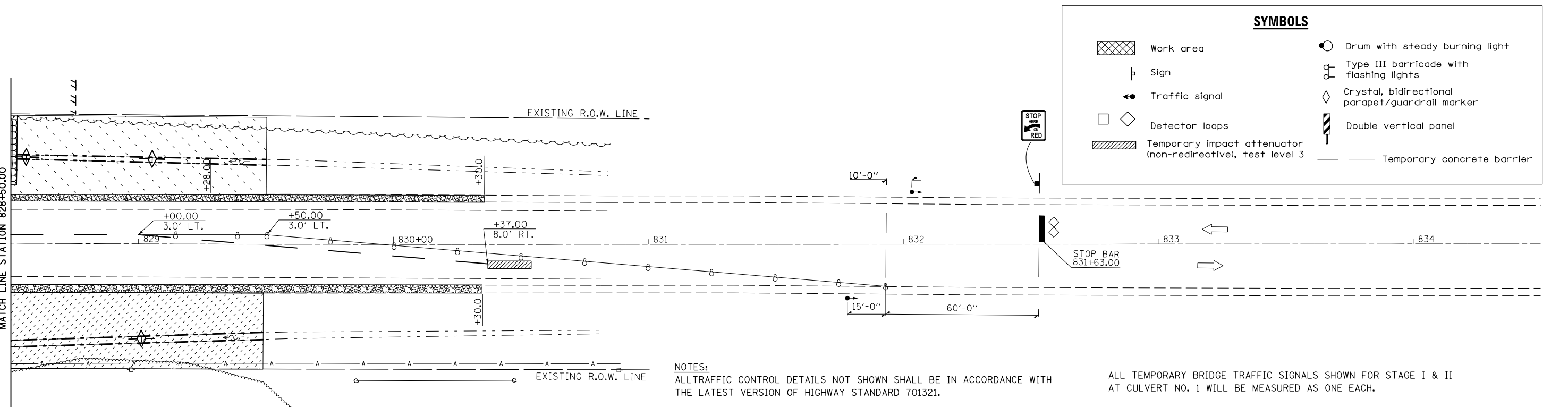
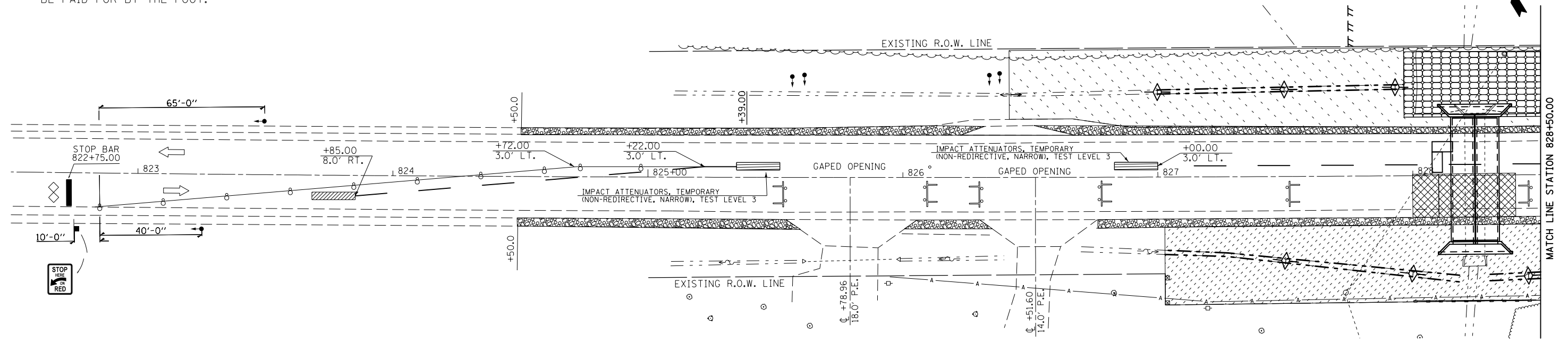
OPTIONAL CONFIGURATIONS MAY BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS CONTAINED IN THE CODE OF FEDERAL REGULATIONS LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.

••DEPTH VARIES AS DETERMINED BY GEOTECHNICAL ENGINEER

WORK ZONE PAVEMENT MARKINGS:
 EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH WORK ZONE
 PAVEMENT MARKINGS SHALL BE COVERED COMPLETELY WITH PAVEMENT
 MARKING BLACK OUT TAPE. PAVEMENT MARKING BLACKOUT TAPE WILL
 BE PAID FOR BY THE FOOT.

STAGING DETAIL /CULVERT NO. 1 STAGE ONE



SYMBOLS

- Work area
- Sign
- Traffic signal
- Detector loops
- Temporary impact attenuator (non-redirective), test level 3
- Drum with steady burning light
- Type III barricade with flashing lights
- Crystal, bidirectional parapet/guardrail marker
- Double vertical panel
- Temporary concrete barrier

NOTES:
 ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 1.

TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321

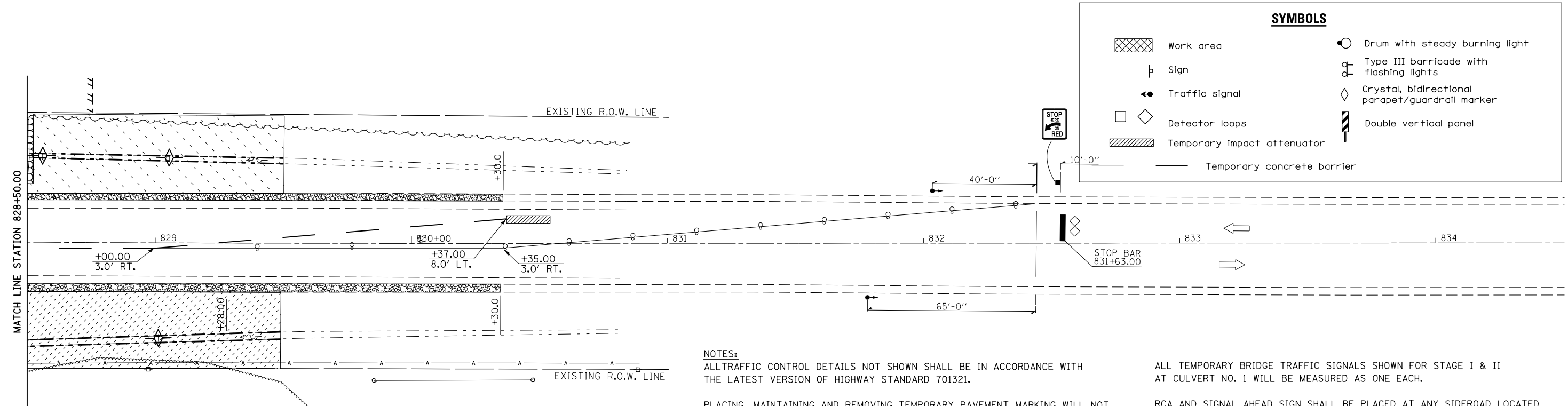
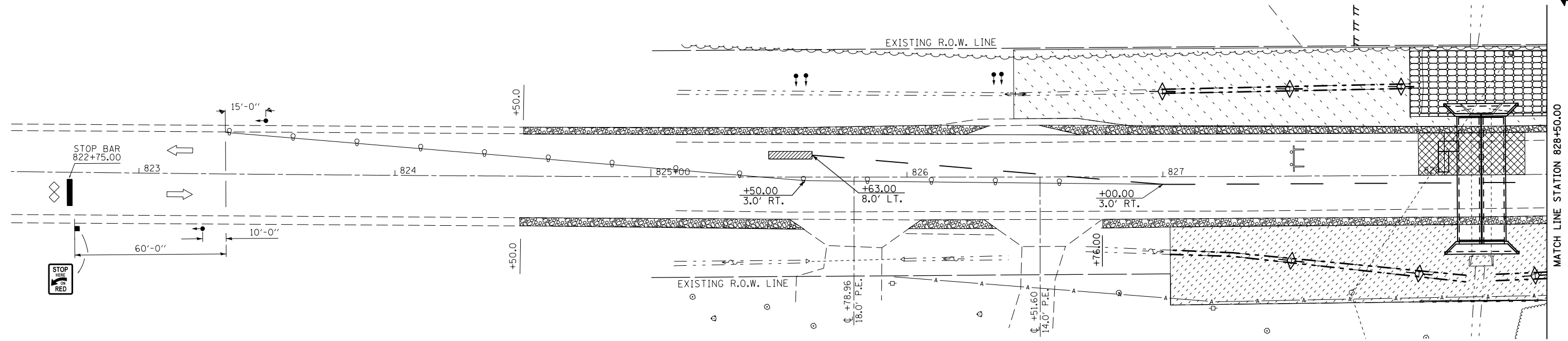
ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II AT CULVERT NO. 1 WILL BE MEASURED AS ONE EACH.

RCA AND SIGNAL AHEAD SIGN SHALL BE PLACED AT ANY SIDEROAD LOCATED WITHIN THE MAINLINE TRAFFIC CONTROL SIGNING LIMITS. THE LOCATIONS TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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#MODELNAME#	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70620					
						ILLINOIS FED. AID PROJECT					

WORK ZONE PAVEMENT MARKINGS:
 EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH WORKZONE
 PAVEMENT MARKINGS SHALL BE COVERED COMPLETELY WITH PAVEMENT
 MARKING BLACK OUT TAPE. PAVEMENT MARKING BLACKOUT TAPE WILL
 BE PAID FOR BY THE FOOT.

STAGING DETAIL /CULVERT NO. 1 STAGE TWO



NOTES:
 ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH
 THE LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKING WILL NOT
 BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321, LOCATION 1.

TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL
 AND PROTECTION, STANDARD 701321

ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II
 AT CULVERT NO. 1 WILL BE MEASURED AS ONE EACH.

RCA AND SIGNAL AHEAD SIGN SHALL BE PLACED AT ANY SIDEROAD LOCATED
 WITHIN THE MAINLINE TRAFFIC CONTROL SIGNING LIMITS. THE LOCATIONS
 TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED
 FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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*MODELNAME#	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70620					
						ILLINOIS FED. AID PROJECT					

GENERAL NOTES

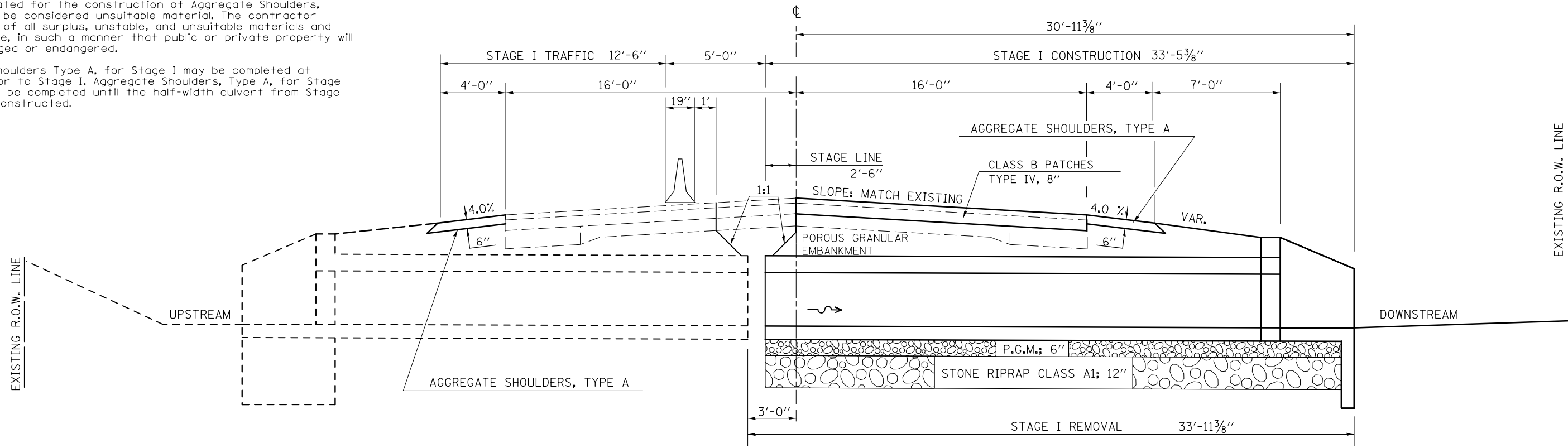
Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.

The Engineer may reduce or eliminate lengths or locations of Aggregate Shoulders, Type A, and Earth Excavation Widening based on field conditions.

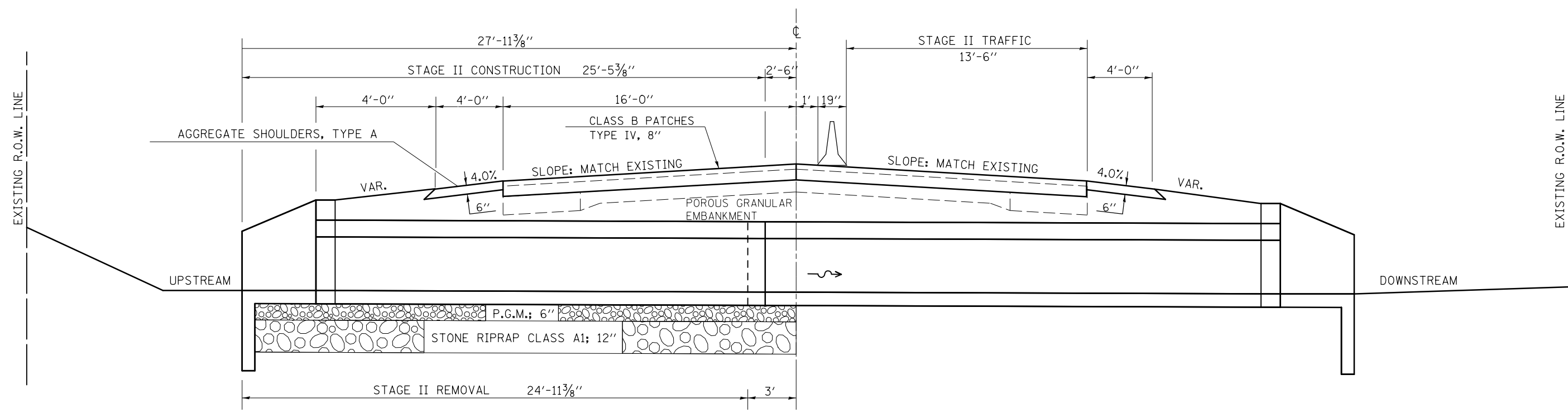
Earth excavated for the construction of Aggregate Shoulders, Type A, shall be considered unsuitable material. The contractor shall dispose of all surplus, unstable, and unsuitable materials and organic waste, in such a manner that public or private property will not be damaged or endangered.

Aggregate Shoulders Type A, for Stage I may be completed at any time prior to Stage I. Aggregate Shoulders, Type A, for Stage II should not be completed until the half-width culvert from Stage I has been constructed.

CULVERT NO. 1 PROPOSED S.N. 010-8149 STAGE I



STAGE II

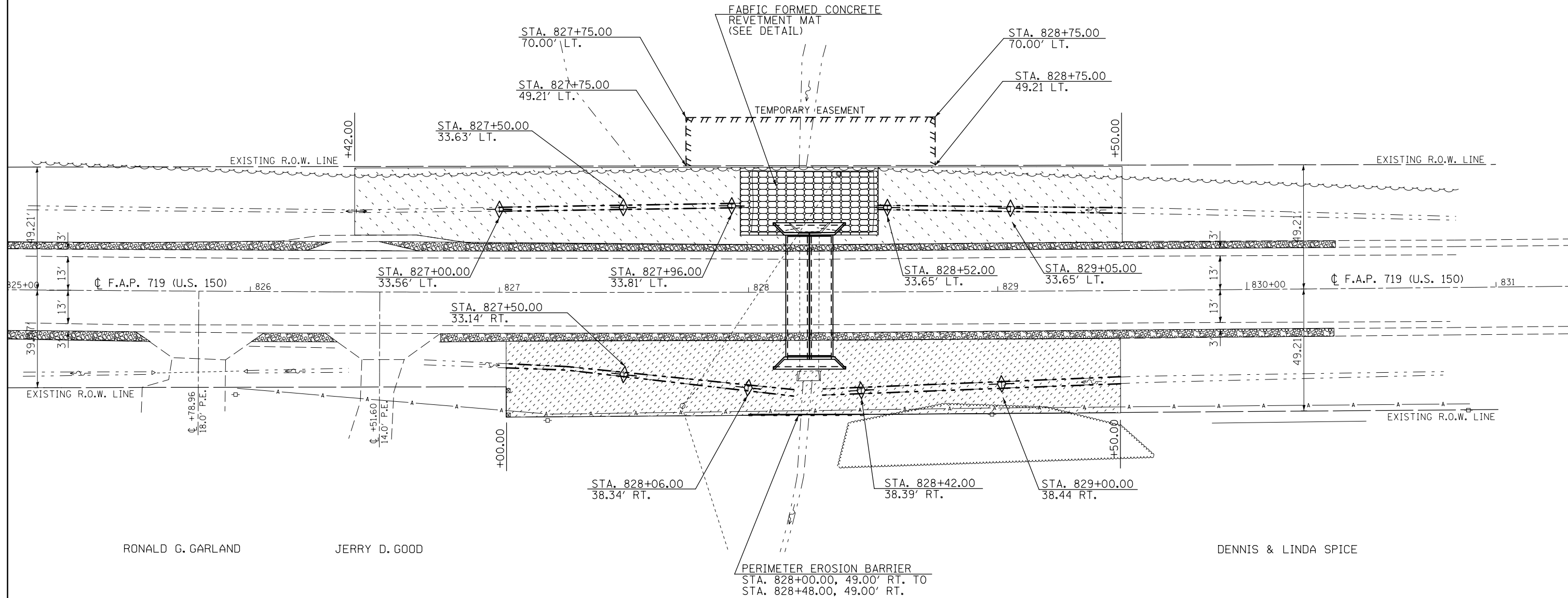


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-Details.dwg	DESIGNED -	REVISED -	REVISED -			719	13CR	CHAMPAIGN	109	36	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 70620					
PLOT DATE = 3/21/2018	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

**EROSION CONTROL PLAN
CULVERT NO. 1**

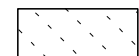
5446001
ROSS MATTIS PROPERTIES, LLC,
AN ILLINOIS LIMITED LIABILITY COMPANY

5446001
ROSS MATTIS PROPERTIES, LLC,
AN ILLINOIS LIMITED LIABILITY COMPANY

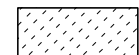


JERRY D. GOOD

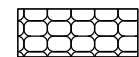
DENNIS & LINDA SPICE



SEEDING, CLASS 2A



SODDING, SALT TOLERANT



FABRIC FORMED CONCRETE REVETMENT MAT

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\DRAWING\Design\0570620-shr-Erosion Control		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
CULVERT NO. 1 / PROPOSED S.N. 010-8149**

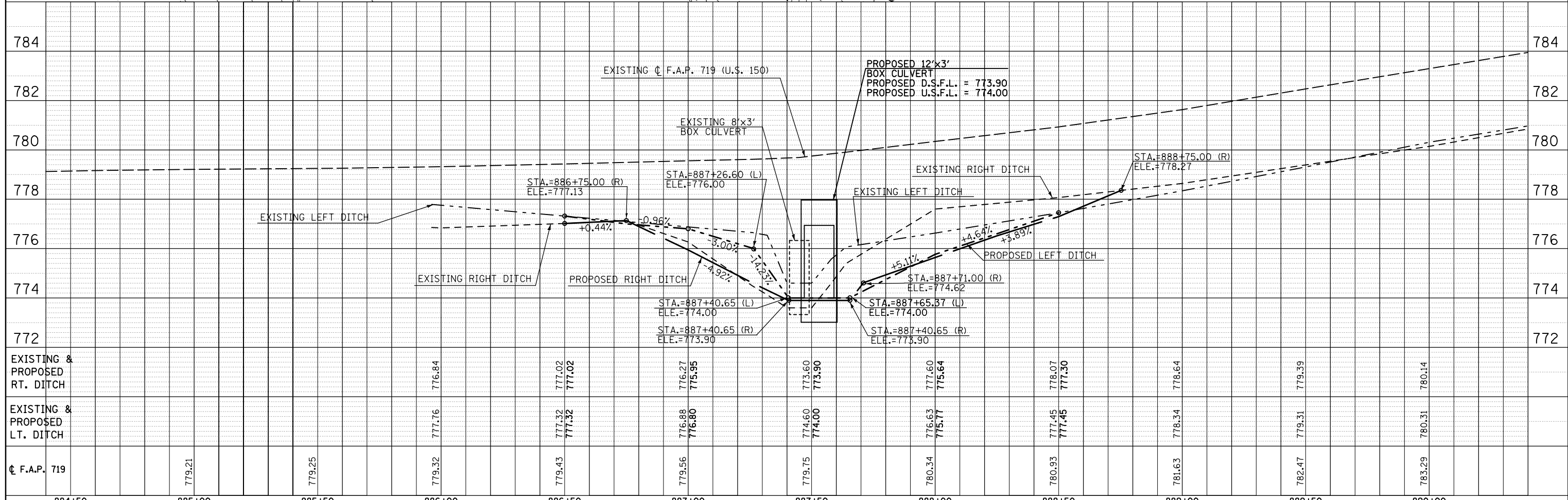
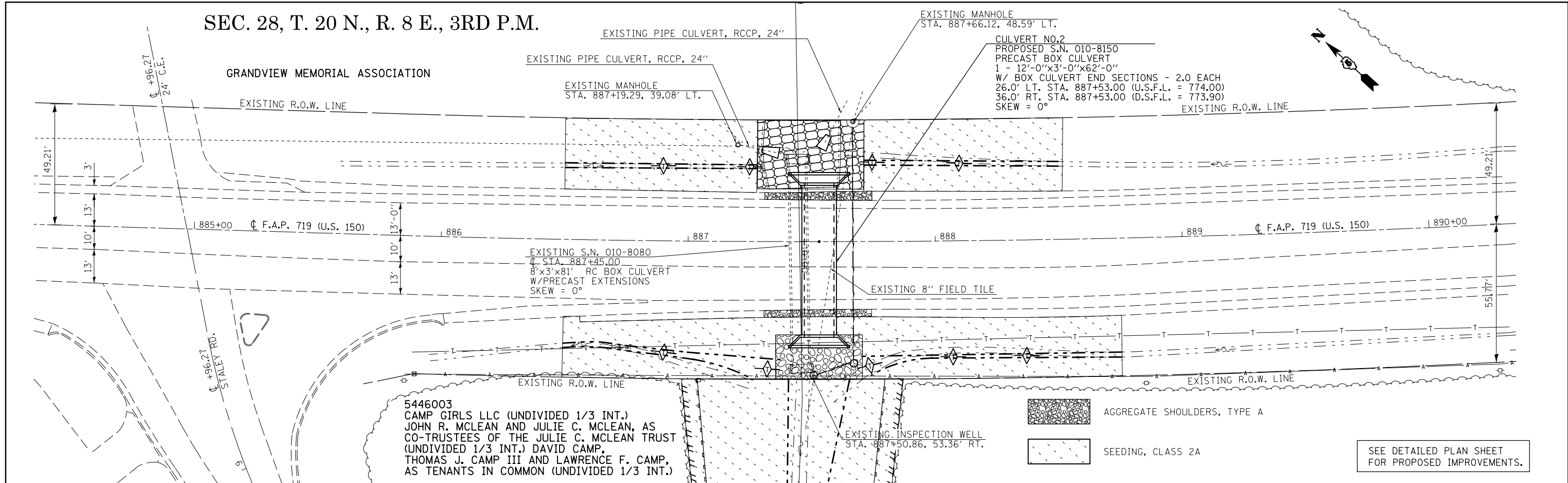
SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	37
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

SEC. 28, T. 20 N., R. 8 E., 3RD P.M.

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

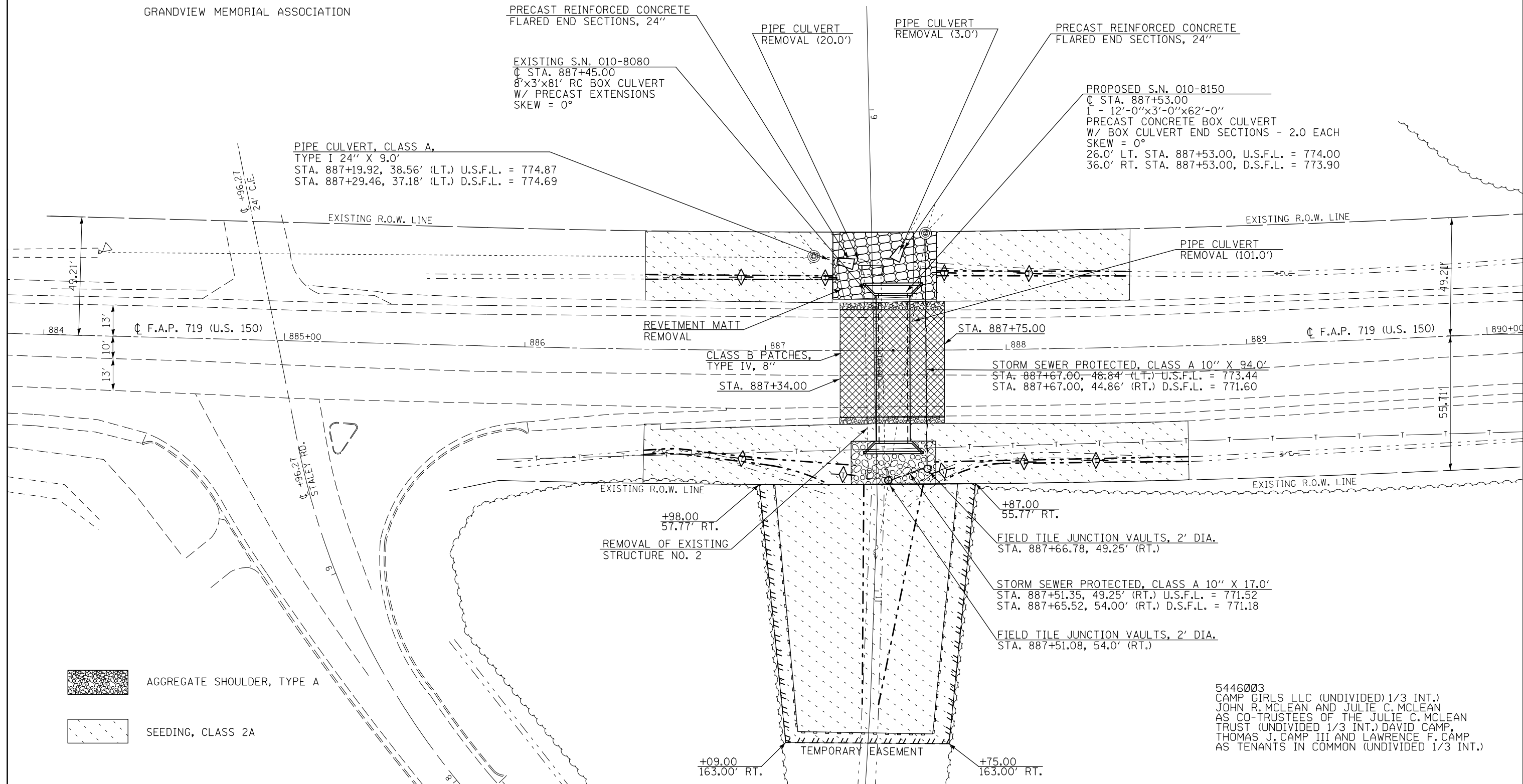
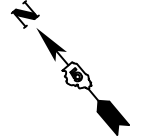
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	NOTATIONS
	NO.	

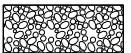
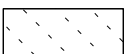


884+50	885+00	885+50	886+00	886+50	887+00	887+50	888+00	888+50	889+00	889+50	890+00
779.21		779.25	779.32	779.43	779.56	779.75	780.34	780.93	781.63	782.47	783.29
777.32	777.32	777.76	777.32	777.32	776.88	774.60	776.63	777.45	778.34	779.31	780.31
777.02	777.02	776.84	777.02	777.02	776.27	773.60	777.60	778.07	778.64	779.39	780.14
775.95	775.95	775.95	775.95	775.95	775.95	773.90	775.64	777.30	778.64	779.39	780.14

NOTE:
AREA SHOWN ON PLANS FOR SEEDING ARE FOR REPRESENTATION ONLY.
SEE EROSION CONTROL SHEET FOR STATION LAYOUT.

**DETAILED PLAN SHEET
CULVERT NO. 2**



 AGGREGATE SHOULDER, TYPE A
 SEEDING, CLASS 2A

5446003
CAMP GIRLS LLC (UNDIVIDED) 1/3 INT.)
JOHN R. MCLEAN AND JULIE C. MCLEAN
AS CO-TRUSTEES OF THE JULIE C. MCLEAN
TRUST (UNDIVIDED 1/3 INT.) DAVID CAMP,
THOMAS J. CAMP III AND LAWRENCE F. CAMP
AS TENANTS IN COMMON (UNDIVIDED 1/3 INT.)

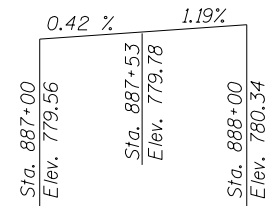
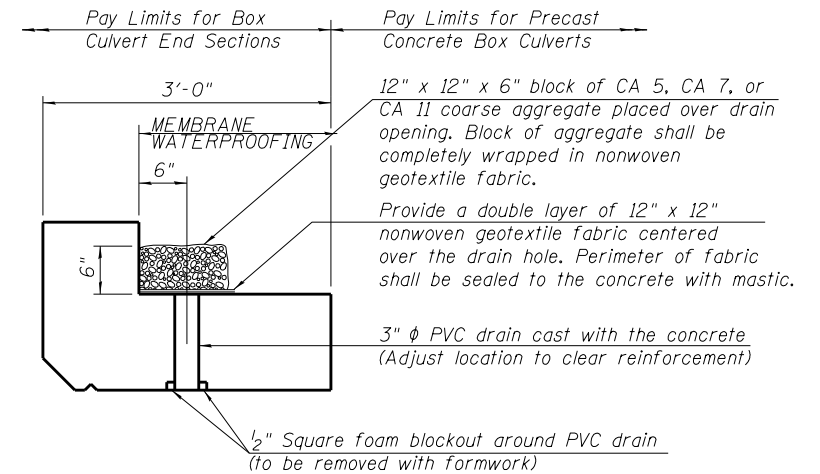
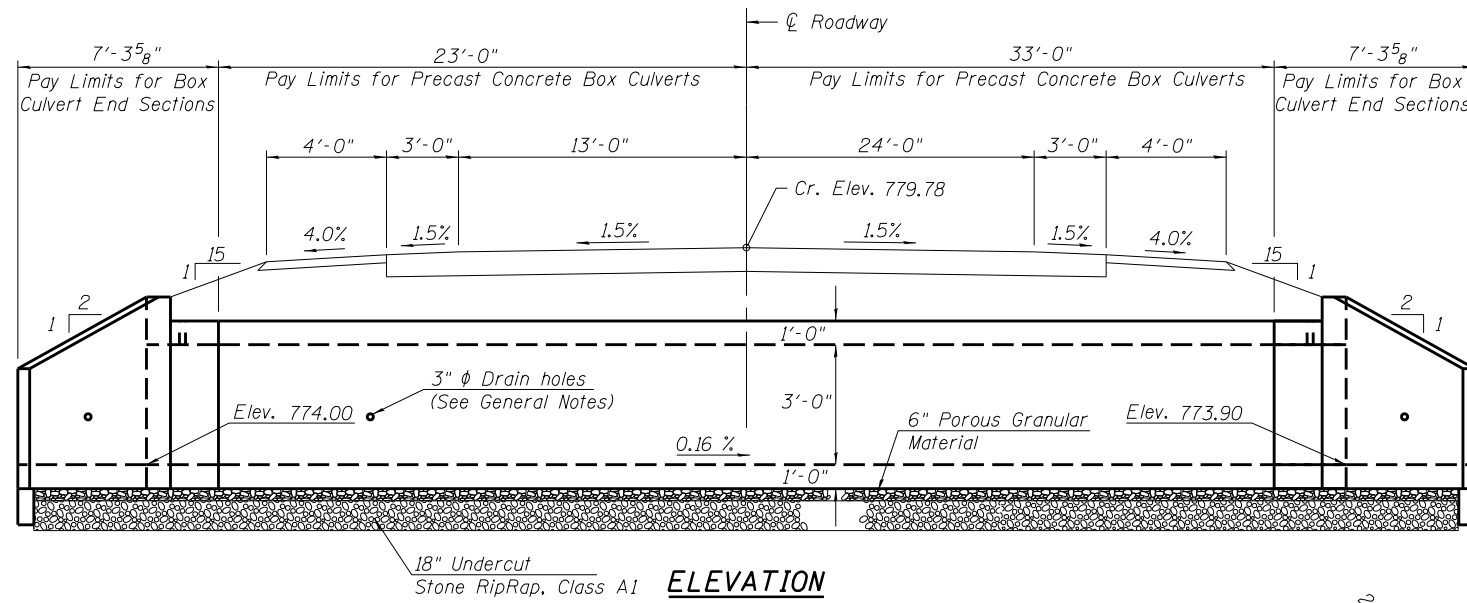
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILED PLAN SHEET CULVERT NO. 2 / PROPOSED S.N. 010-8150	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70620					
						ILLINOIS FED. AID PROJECT					

Existing Structure: S.N. 010-8080 is an 8'x3' R.C. Box Culvert that was originally built in 1925 as part of Route 39, Section 13, at Sta. 887+40. In 1998, the culvert was extended on each end as part of FAS 1518 & FAP 719, Section 12(RS-3,B-1) & 13RS-2, Sta. 14+091.394. The existing structure is to be completely removed and replaced. There will be no salvage of any materials. Stage Construction will be utilized.

Benchmark: N/A

GENERAL NOTES

The design fill height for this box is 1.6 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.
 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.



DESIGN SPECIFICATIONS

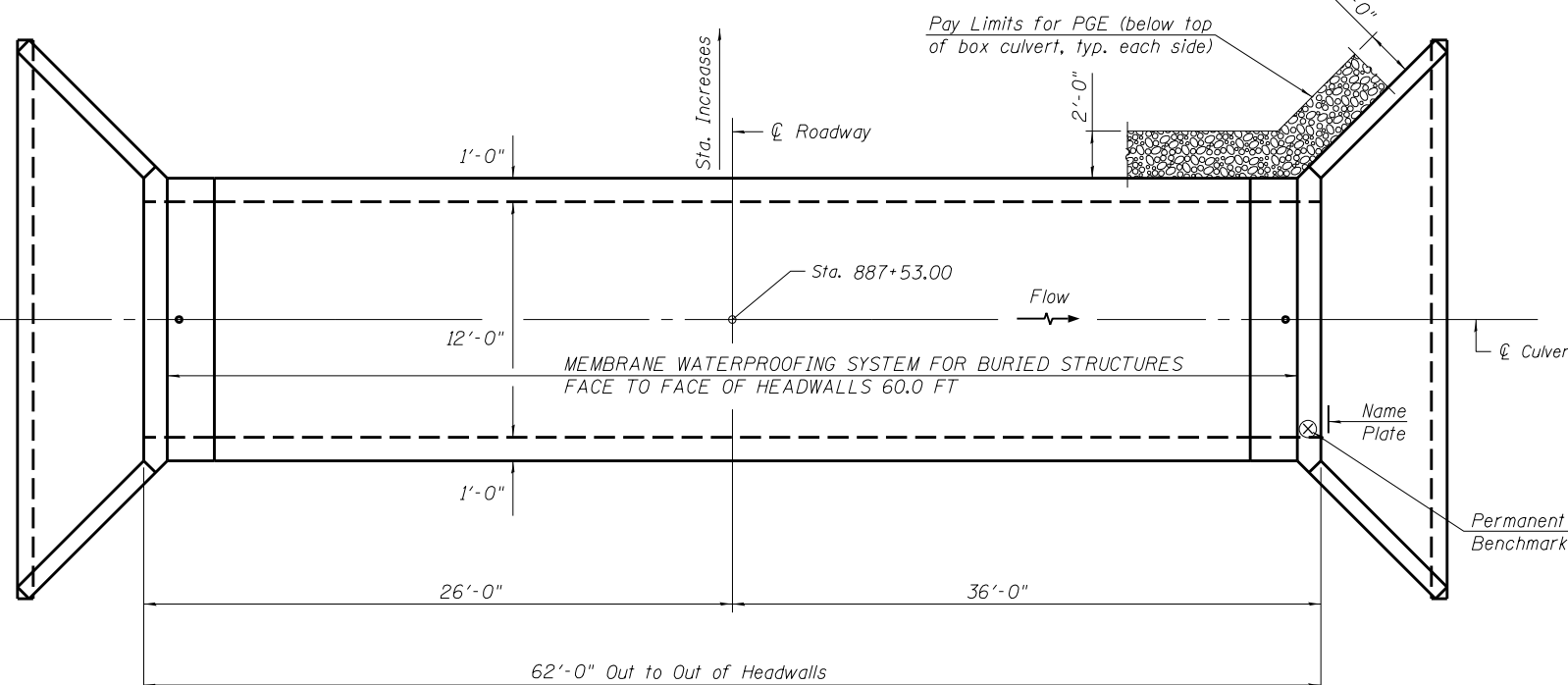
2014 AASHTO LRFD Bridge Design Specifications
 7th Edition with 2015 and 2016 Interims

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS

$f'c$ = 5,000 psi
 f_y = 65,000 psi (Welded Wire Fabric)



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 2	Each	2.0
Precast Concrete Box Culverts, 12'x3'	Foot	56.0
Porous Granular Embankment	Cu. Yd.	259.0
Stone RipRap, Class A1	Ton	130.0
Membrane Waterproofing System for Buried Structures	Sq Yd	107.0

WATERWAY INFORMATION

Drainage Area = 0.125 sq. mi. Low Grade Elev. = 778.93 @ Sta. 882+00

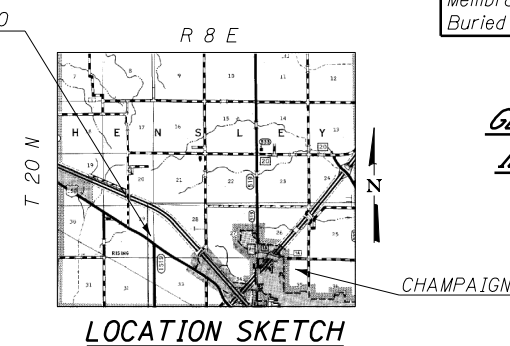
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10	127	24	32					776.76	776.62
Base	50	224	24	36					Over	777.56
Overtopping	100	271	24	36					Over	778.26
Max. Calc.	500	388	24	36					Over	Over

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	770.33	770.23

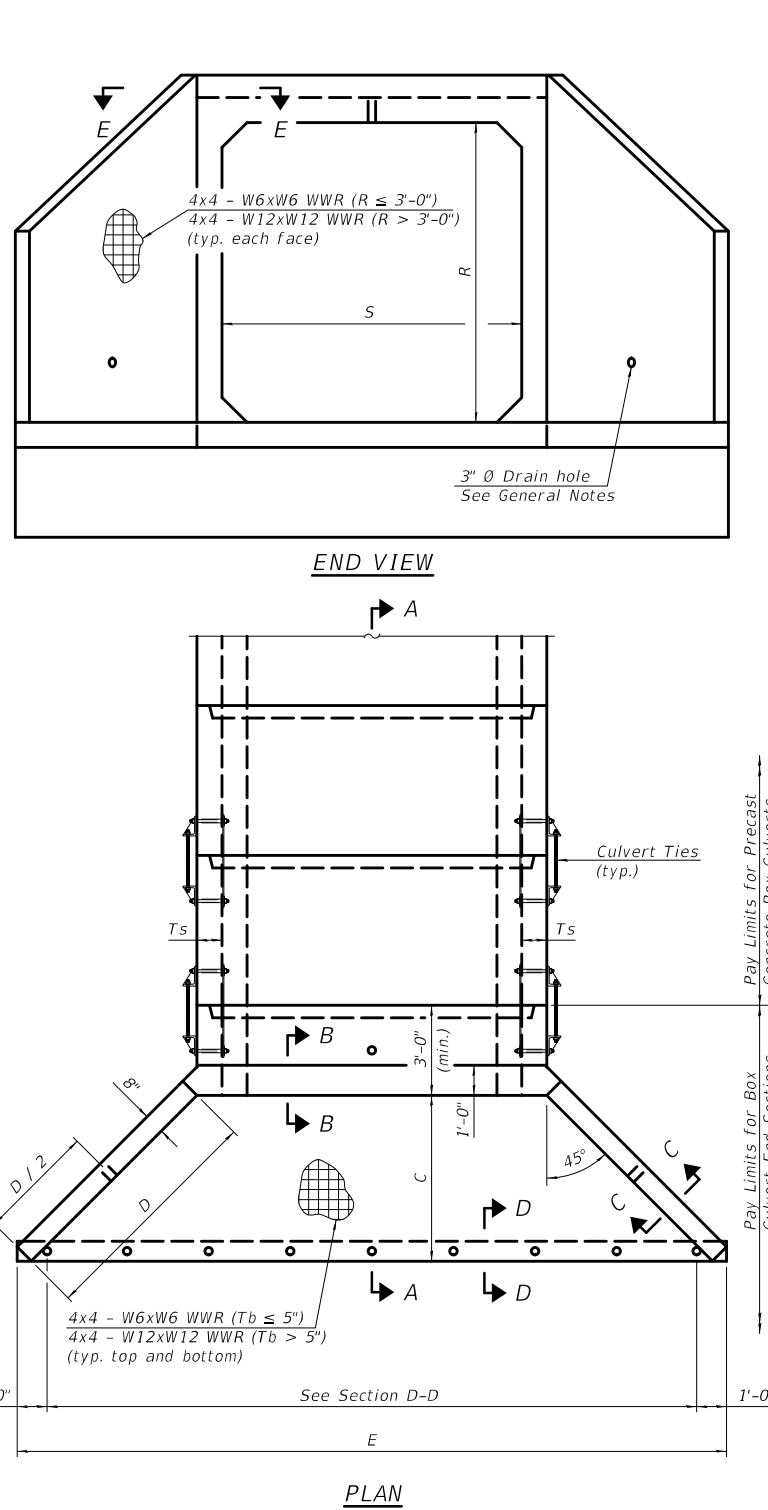
STATION 887+53.00
 BUILT ____ BY
 STATE OF ILLINOIS
 F.A.P. 719 SEC. 13CR
 LOADING HL-93
 STR. NO. 010-8150

NAME PLATE
 See Std. 515001



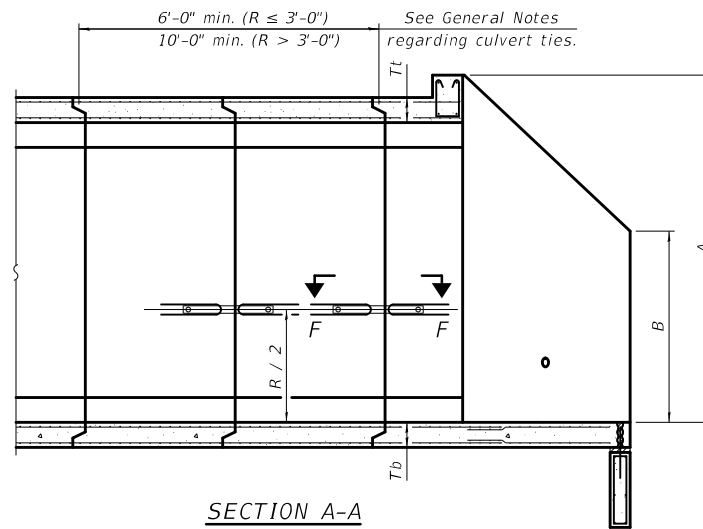
GENERAL PLAN AND ELEVATION
12'x3' PRECAST BOX CULVERT
F.A.P. 719 SEC. 13CR
CHAMPAIGN COUNTY
STATION 887+53.00
S.N. 010-8150

CULVERT NO. 2 PROPOSED S.N. 010-8150



SCB-AES

2-17-2017



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.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

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.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

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 unit price for Box Culvert End Sections of the culvert number specified.

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". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

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 culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section 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 the lower 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

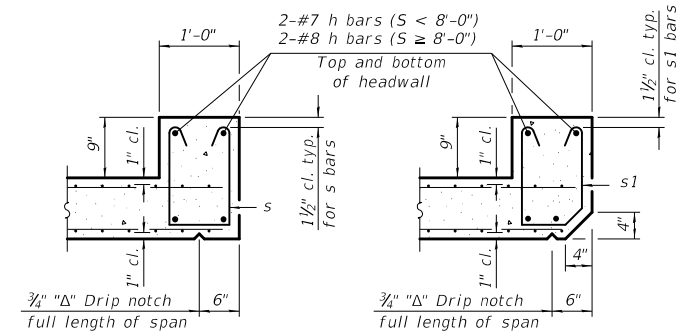
Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 1/8"	4'-1"	10'-4 3/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 1/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	12'-4 5/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 1/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 1/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 1/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	15'-10 3/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 1/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 1/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 1/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 3/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 3/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 3/8"	4'-7"	20'-3 3/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 3/8"	6'-0"	22'-3 3/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 3/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 3/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 3/4"	10'-2"	28'-1 3/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	25'-6 3/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 3/8"	17.4	Yes

Note:
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.
(Sheet 1 of 2)

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO. 010-8150

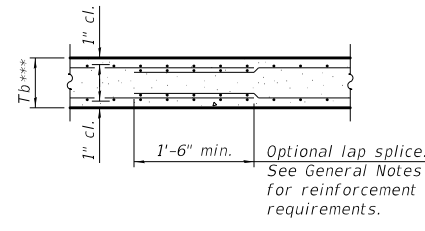
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\$MODELNAME\$	PLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70620					
						ILLINOIS FED. AID PROJECT					

CULVERT NO. 2 PROPOSED S.N. 010-8150



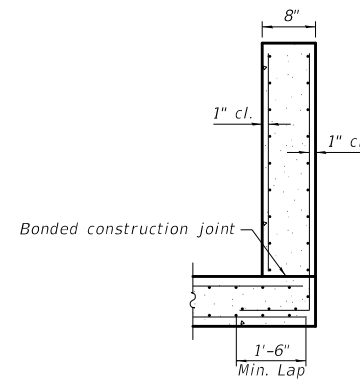
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

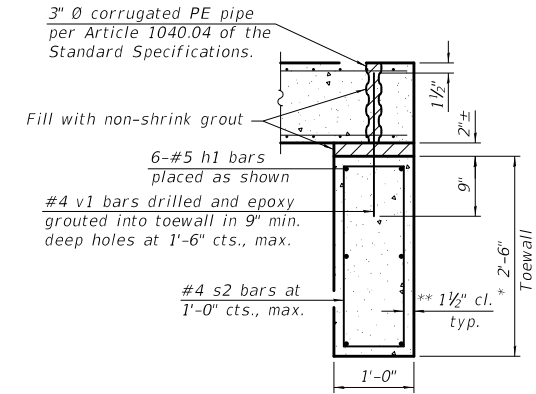


SECTION B-B
(Bottom Slab)

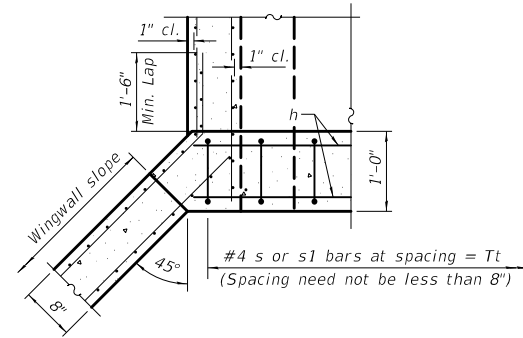
*** This dimension shall be increased by 2" for CIP construction.



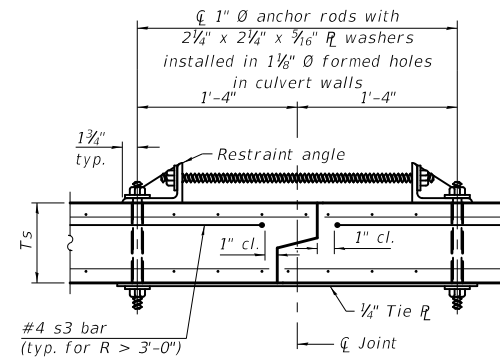
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

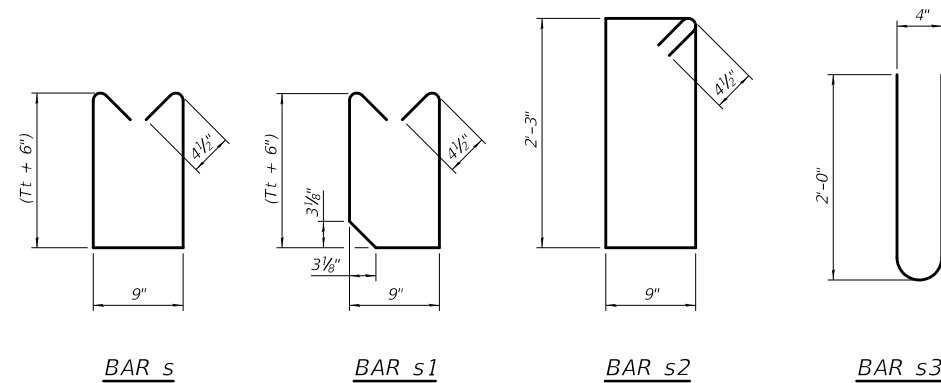
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids 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 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.

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the 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 3/16" 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.

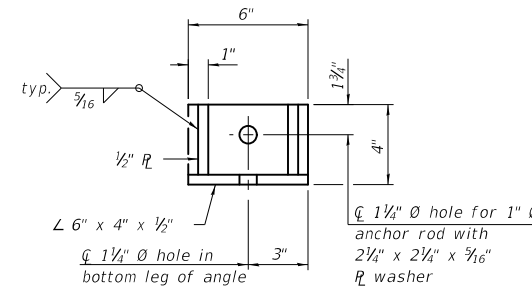


BAR s

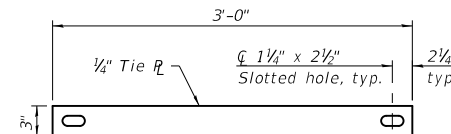
BAR s1

BAR s2

BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

SCB-AES

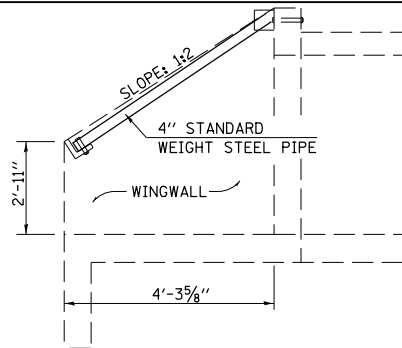
2-17-2017

(Sheet 2 of 2)

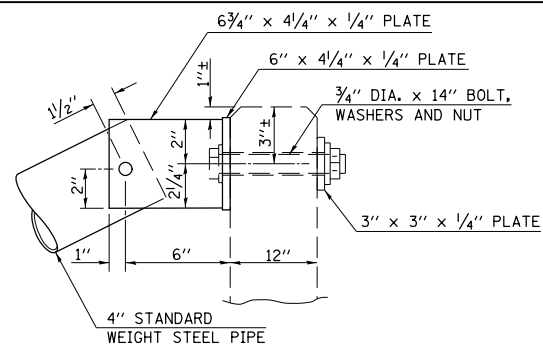
PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
CULVERT NO. 2 / PROPOSED S.N. 010-8150

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-CAST CONCRETE BOX CULVERT APRON END SECTION DETAILS CULVERT NO. 2 / PROPOSED S.N. 010-8150	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\05796\Drawings\Design\0570620-shr-Details.dwg						719	13CR	CHAMPAIGN	109	42		
PLOT SCALE = 40.0000' / in.						CONTRACT NO. 70620						
DATE = 3/21/2018						ILLINOIS FED. AID PROJECT						

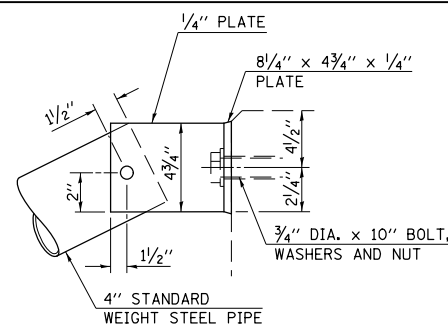
GRATING DETAIL FOR CONCRETE HEADWALL CULVERT NO. 2 /PROPOSED S.N. 010-8150



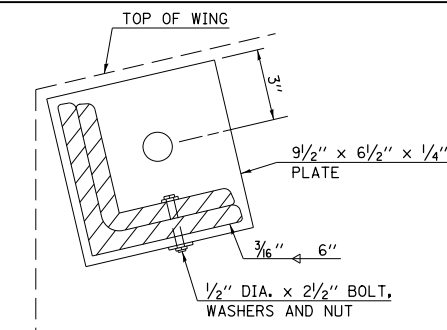
SECTION A - A



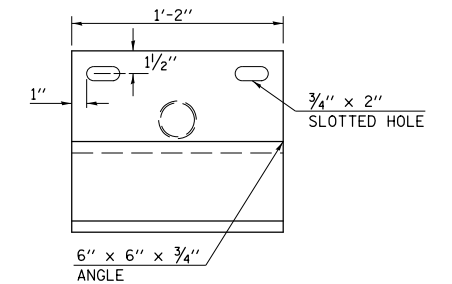
ELEVATION AT HEADWALL



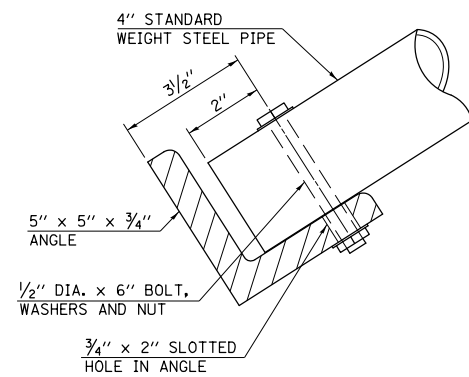
ELEVATION AT WINGWALL



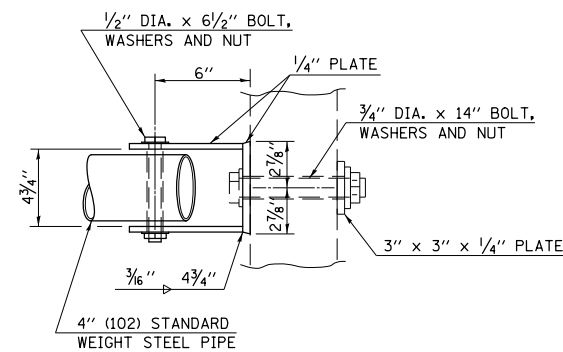
ELEVATION AT END OF WINGWALL



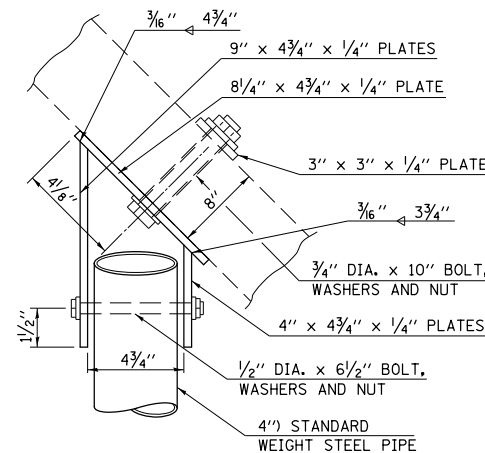
PLAN VIEW OF SUPPORT
(THREE REQ'D. AT EACH GRATING)



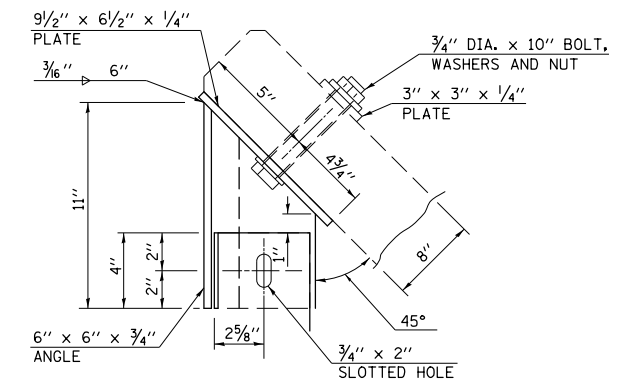
SECTION B - B



PLAN AT HEADWALL



PLAN AT WINGWALL



PLAN AT END OF WINGWALL

GENERAL NOTES

- BOLTS AND NUTS SHALL CONFORM TO A.S.T.M. A 307. ALL BOLTS SHALL HAVE WASHERS AT EACH END. HOLES SHALL BE 1/16" OVERSIZED UNLESS OTHERWISE NOTED EXCEPT IN CONCRETE WHICH SHALL BE 1/8" OVERSIZED.
- ANGLES AND STEEL PLATES SHALL CONFORM TO A.A.S.H.T.O. M 183. STEEL PIPES SHALL CONFORM TO A.S.T.M. A 53, GRADE B OR A.S.T.M. A 501.
- STEEL PIPES, ANGLES AND PLATES SHALL BE HOT DIPPED GALVANIZED CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O. M 111.
- BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O. M 232.
- THE APPROXIMATE WEIGHT OF THE STEEL IS 1442.00 POUNDS. THIS TOTAL INCLUDES PLATES, ANGLES AND PIPES. BOLTS, NUTS AND WASHERS ARE NOT INCLUDED.
- ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD. CUTTING OF THE STANDARD WEIGHT PIPE AND ANGLES TO THE EXACT LENGTH AND DRILLING HOLES IS TO BE DONE IN THE FIELD.
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "GRATING FOR BOX CULVERT" WHICH PRICE SHALL INCLUDE ALL MATERIAL AND LABOR TO COMPLETE THE INSTALLATION AS SHOWN.

BILL OF MATERIAL

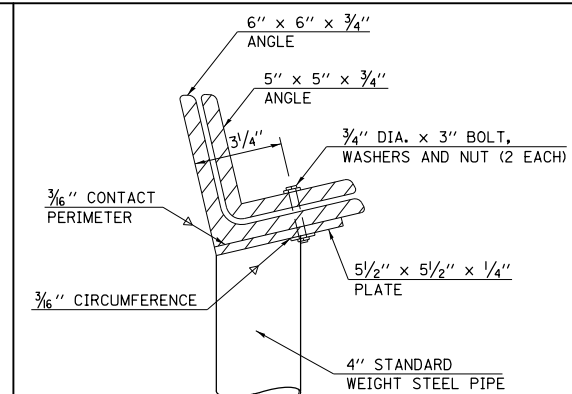
1/4" STEEL PLATES				
SIZE (INCHES)	QUANTITY	SQ INCH	11.26 LB/SQ FT	
6.75	4.25	20.0	573.75	44.86
6.00	4.25	10.0	255.00	19.94
3.00	3.00	12.0	108.00	8.45
8.25	4.75	2.0	78.38	6.13
9.00	4.75	2.0	85.50	6.69
4.00	4.75	2.0	38.00	2.97
9.50	6.50	2.0	123.50	9.66
5.50	5.50	2.0	60.50	4.73
9.00	9.00	2.0	162.00	12.67
TOTAL				116.09

4" STD. STL PIPE		
QUANTITY	LENGTH	10.79 LB/FT
10.0	4.67	503.89
2.0	2.50	53.95
SUPPORTS		
2.0	2.92	92.00
TOTAL		
		649.84

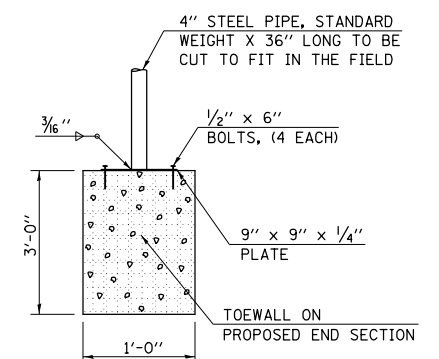
NUMBER OF CENTER SUPPORTS REQUIRED		
W.W. SPAN (TIP-TIP)	NUMBER REQUIRED	SPACING
0' TO 12'-6"	0	-
12'-6" TO 18'-0"	1	CENTER OF W.W. SPAN
OVER 18'-0"	(1 CENTER SUPPORT EVERY ADDITIONAL 6'-0" OF W.W. SPAN)	

6x6x3/4 Angle		
QUANTITY	LENGTH	28.7 LB/FT
2.00	1.17	67.16
2.00	0.92	52.81
TOTAL		
		119.97

5x5x3/4 ANGLE		
LENGTH	QUANTITY	23.6 LB/FT
23.55	1.0	555.78
TOTAL		
		555.78



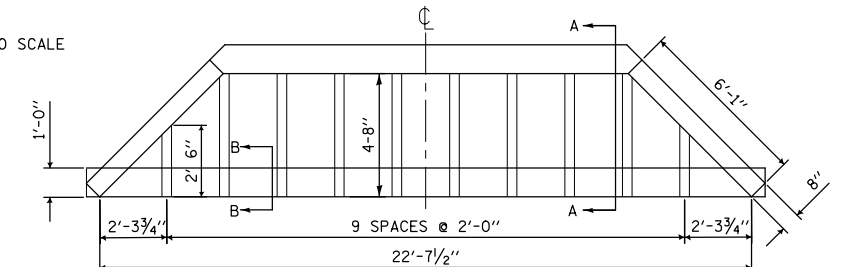
END VIEW OF SUPPORT
(TWO REQ'D. AT GRATING)



CENTER SUPPORT PLATE
(TWO REQ'D. AT GRATING)

PLAN

DRAWING NOT TO SCALE



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRATING DETAIL FOR CONCRETE HEADWALL
CULVERT NO. 2 /PROPOSED S.N. 010-8150**

SCALE: SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	43
				CONTRACT NO. 70620
ILLINOIS FED. AID PROJECT				

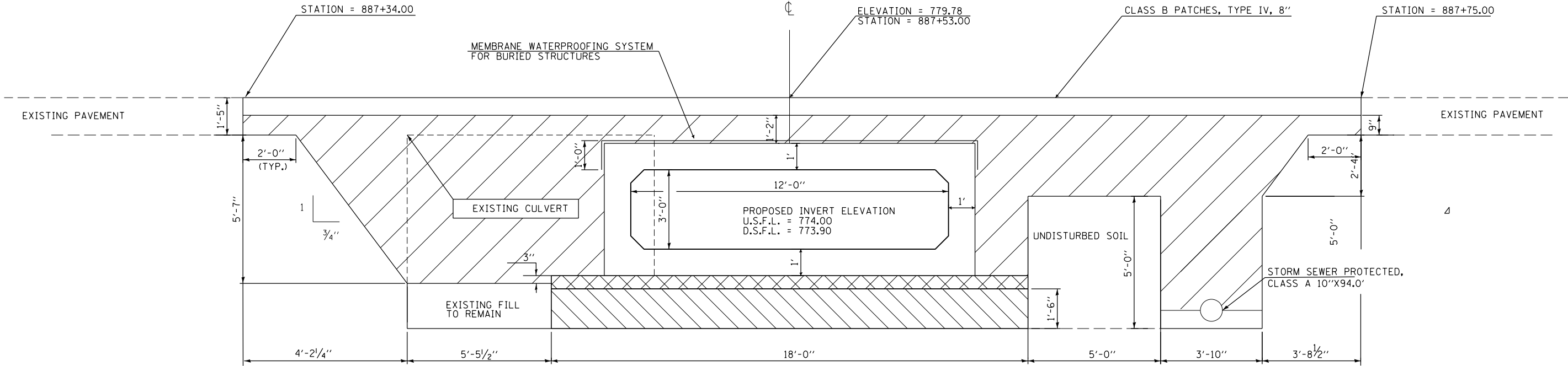
BILL OF MATERIAL

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	259.0
STONE RIPRAP, CLASS A1	TON	130.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	107.0

POROUS GRANULAR EMBANKMENT DETAIL
CULVERT NO. 2 / PROPOSED S.N. 010-8150

LEGEND

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



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.

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.

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.

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



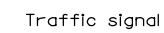


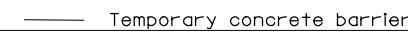




OPTIONAL CONFIGURATIONS MAY BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS CONTAINED IN THE CODE OF FEDERAL REGULATIONS LABOR 29 PART 1926 SUBPART P - EXCAVATIONS.

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.

** DEPTH VARIES AS DETERMINED BY GEOTECHNICAL ENGINEER

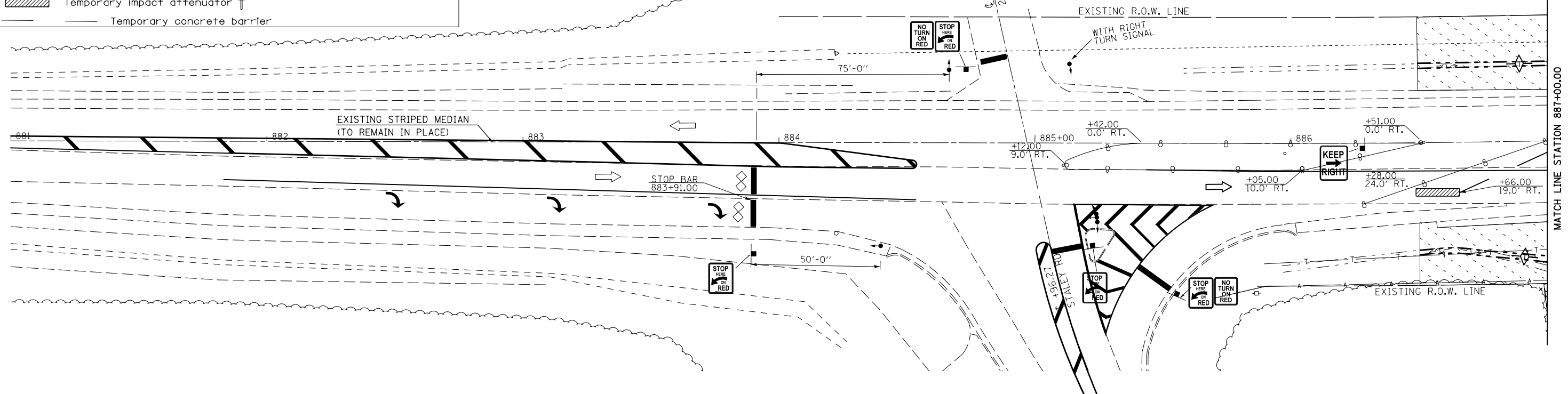
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES
SEE SPECIAL PROVISION

SYMBOLS

-  Work area
-  Sign
-  Traffic signal
-  Detector loops
-  Temporary impact attenuator
-  Temporary concrete barrier
-  Drum with steady burning light
-  Type III barricade with flashing lights
-  Crystal, bidirectional parapet/guardrail marker
-  Double vertical panel

STAGING DETAIL /CULVERT NO. 2 STAGE ONE

WORK ZONE PAVEMENT MARKINGS:
EXISTING PAVEMENT MARKING THAT CONFLICT WITH WORK ZONE PAVEMENT MARKINGS SHALL BE COVERED COMPLETELY WITH PAVEMENT MARKING BLACKOUT TAPE. PAVEMENT MARKING BLACKOUT TAPE WILL BE PAID FOR BY THE FOOT.



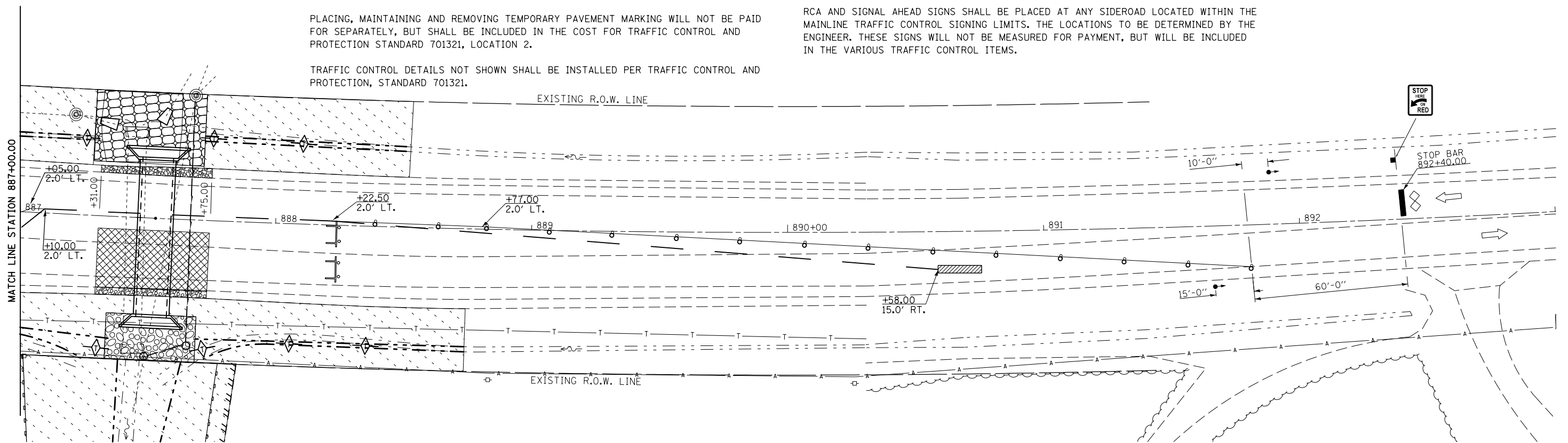
NOTES:
ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 2.

TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II AT CULVERT NO. 2 WILL BE MEASURED AS ONE EACH.

RCA AND SIGNAL AHEAD SIGNS SHALL BE PLACED AT ANY SIDEROAD LOCATED WITHIN THE MAINLINE TRAFFIC CONTROL SIGNING LIMITS. THE LOCATIONS TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.

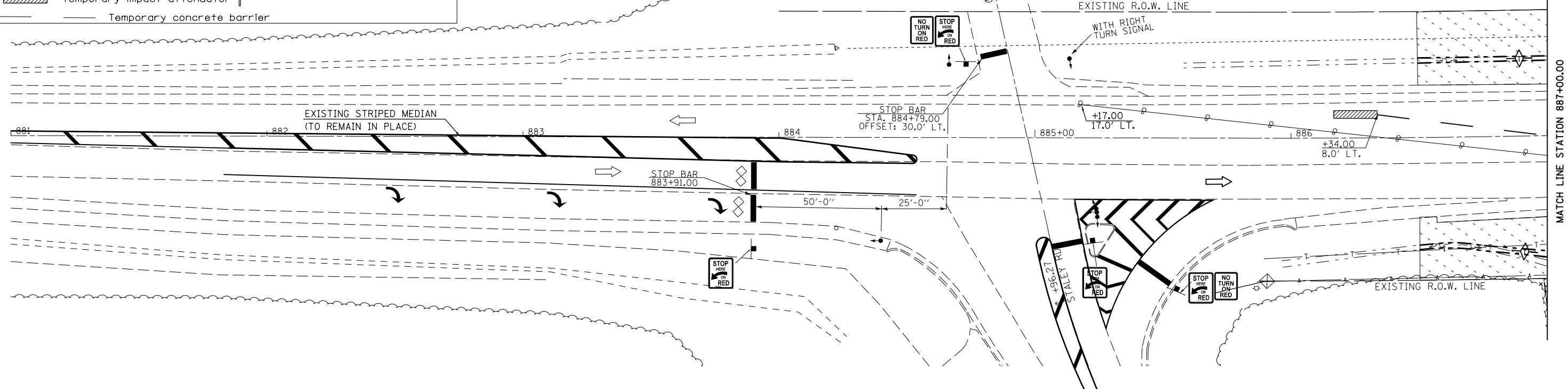


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 2 /PROPOSED S.N. 010-8150	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
p:\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-Staging.dwg						DRAWN	REVISED	719	13CR	CHAMPAIGN	109	45
PLOT SCALE = 40.0000' / in.						CHECKED -	REVISED -	CONTRACT NO. 70620				
PLOT DATE = 3/21/2018						DATE -	REVISED -	ILLINOIS FED. AID PROJECT				

STAGING DETAIL /CULVERT NO. 2 STAGE TWO

WORK ZONE PAVEMENT MARKINGS:
EXISTING PAVEMENT MARKING THAT CONFLICT WITH WORK ZONE PAVEMENT MARKINGS SHALL BE COVERED COMPLETELY WITH PAVEMENT MARKING BLACKOUT TAPE. PAVEMENT MARKING BLACKOUT TAPE WILL BE PAID FOR BY THE FOOT.

SYMBOLS	
	Work area
	Sign
	Traffic signal
	Detector loops
	Temporary impact attenuator
	Temporary concrete barrier
	Drum with steady burning light
	Type III barricade with flashing lights
	Crystal, bidirectional parapet/guardrail marker
	Double vertical panel



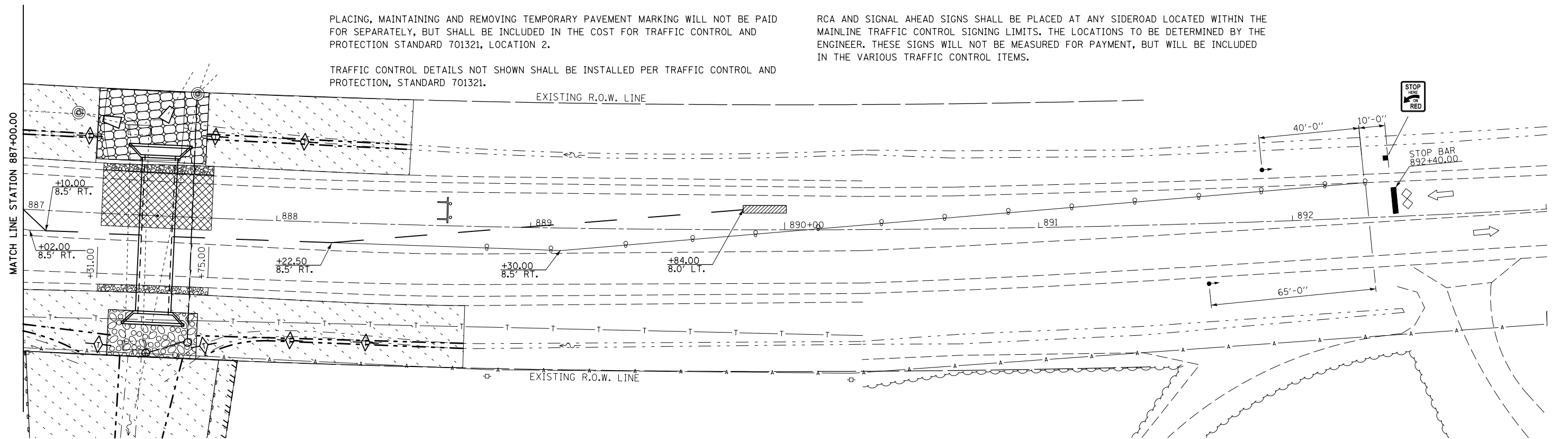
NOTES:
ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 2.

TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II AT CULVERT NO. 2 WILL BE MEASURED AS ONE EACH.

RCA AND SIGNAL AHEAD SIGNS SHALL BE PLACED AT ANY SIDEROAD LOCATED WITHIN THE MAINLINE TRAFFIC CONTROL SIGNALING LIMITS. THE LOCATIONS TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -
#MODELNAME#	PLOT DATE = 3/21/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAIL
CULVERT NO. 2 / PROPOSED S.N. 010-8150

SCALE: SHEET 9 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	46
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

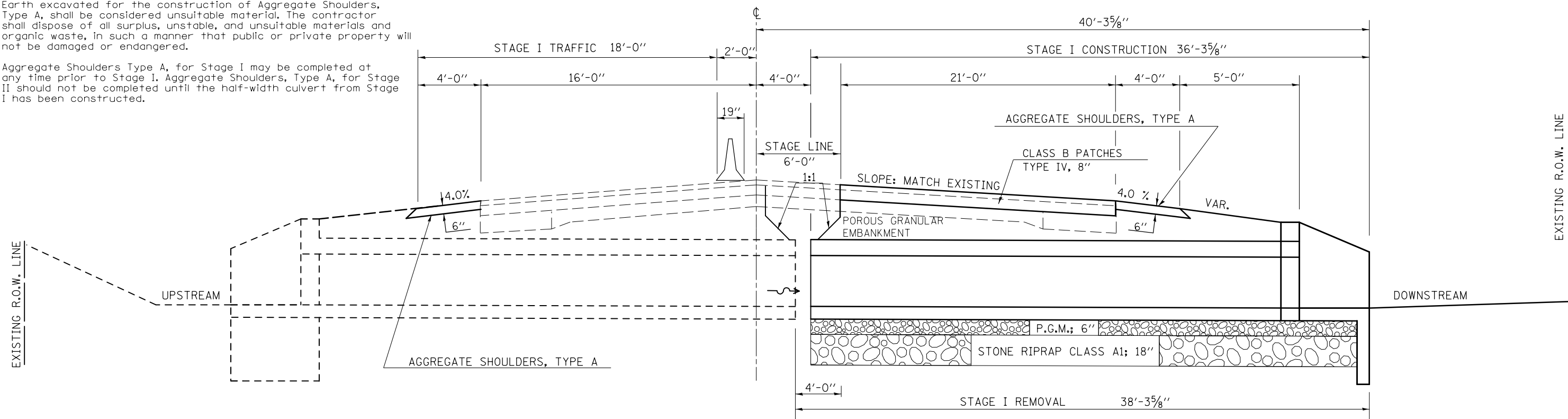
Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.

The Engineer may reduce or eliminate lengths or locations of Aggregate Shoulders, Type A, and Earth Excavation Widening based on field conditions.

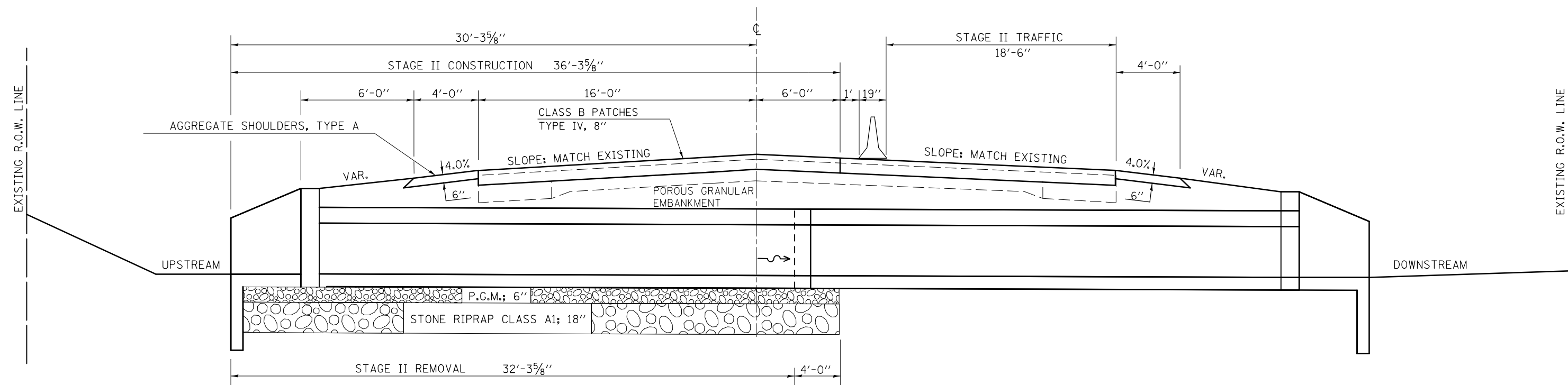
Earth excavated for the construction of Aggregate Shoulders, Type A, shall be considered unsuitable material. The contractor shall dispose of all surplus, unstable, and unsuitable materials and organic waste, in such a manner that public or private property will not be damaged or endangered.

Aggregate Shoulders Type A, for Stage I may be completed at any time prior to Stage I. Aggregate Shoulders, Type A, for Stage II should not be completed until the half-width culvert from Stage I has been constructed.

CULVERT NO. 2 PROPOSED S.N. 010-8150 STAGE I



STAGE II



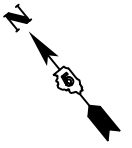
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pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\DRAWING\Design\0570620-shr-Details.dwg	DESIGNED -	REVISED -	719			13CR	CHAMPAIGN	109	47	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70620							
PLOT DATE = 3/21/2018	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
						SCALE:	SHEET 10 OF 11 SHEETS		STA. TO STA.	

SEC. 28, T. 20 N., R. 8 E., 3RD P.M.
LAWRENCE R. HATCH

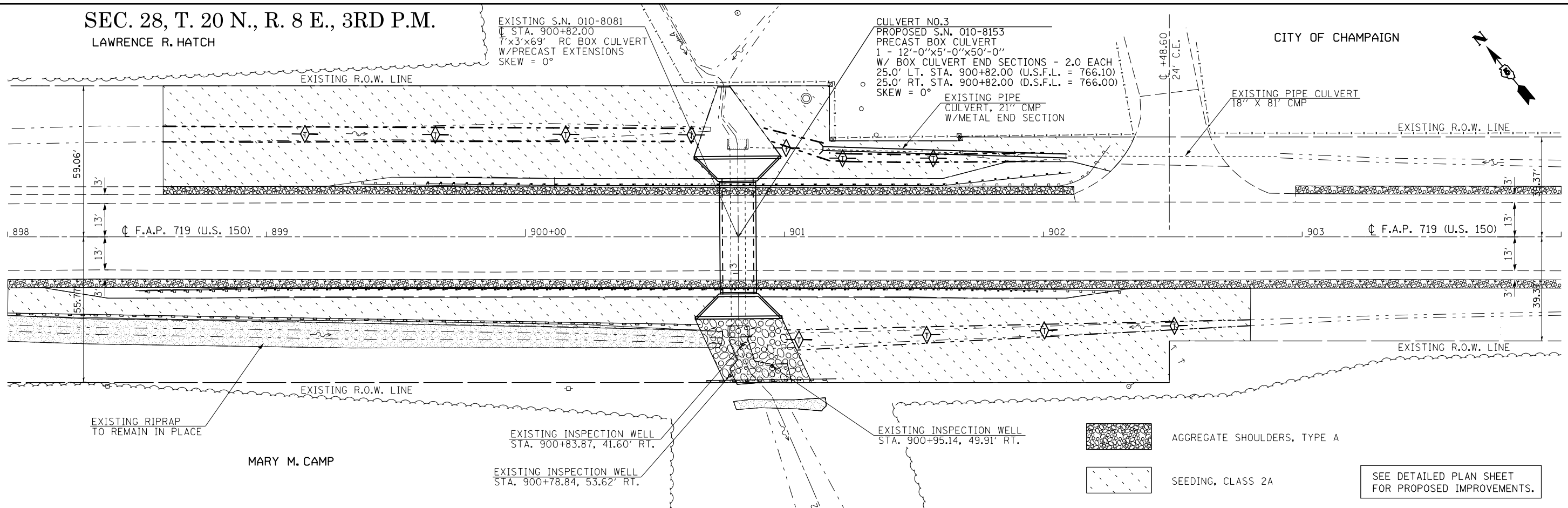
EXISTING S.N. 010-8081
STA. 900+82.00
7'x3'x69' RC BOX CULVERT
W/PRECAST EXTENSIONS
SKEW = 0°

CULVERT NO.3
PROPOSED S.N. 010-8153
PRECAST BOX CULVERT
1 - 12'-0"x5'-0"x50'-0"
W/ BOX CULVERT END SECTIONS - 2.0 EACH
25.0' LT. STA. 900+82.00 (U.S.F.L. = 766.10)
25.0' RT. STA. 900+82.00 (D.S.F.L. = 766.00)
SKEW = 0°

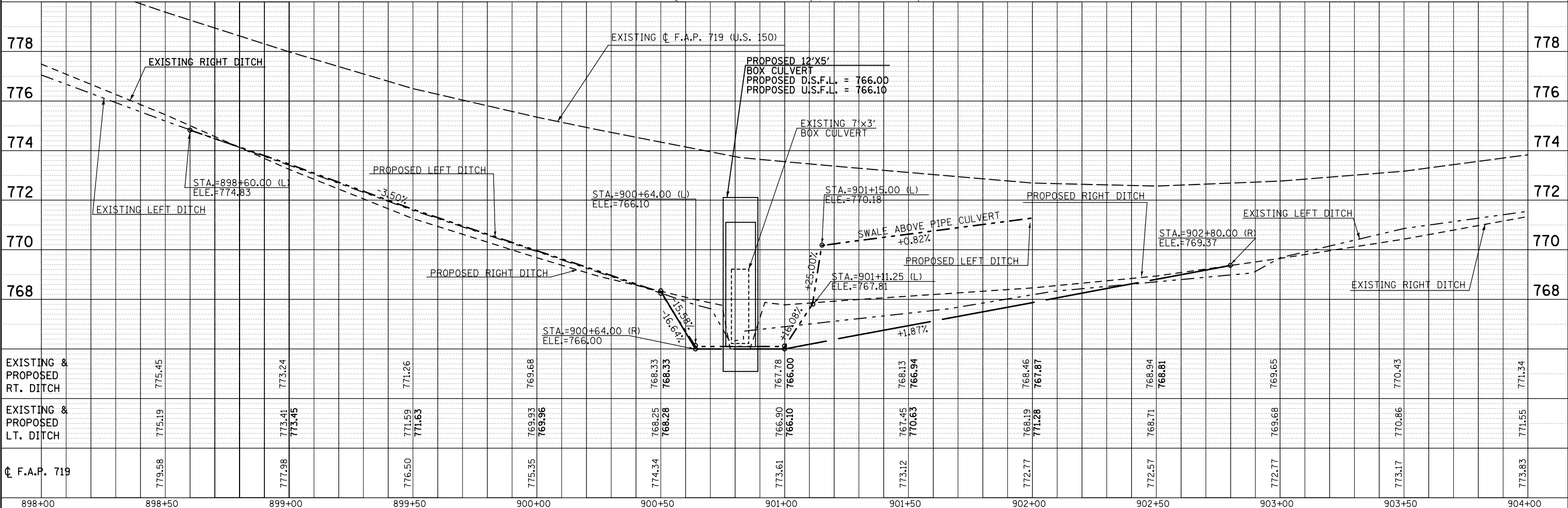
CITY OF CHAMPAIGN



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	



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

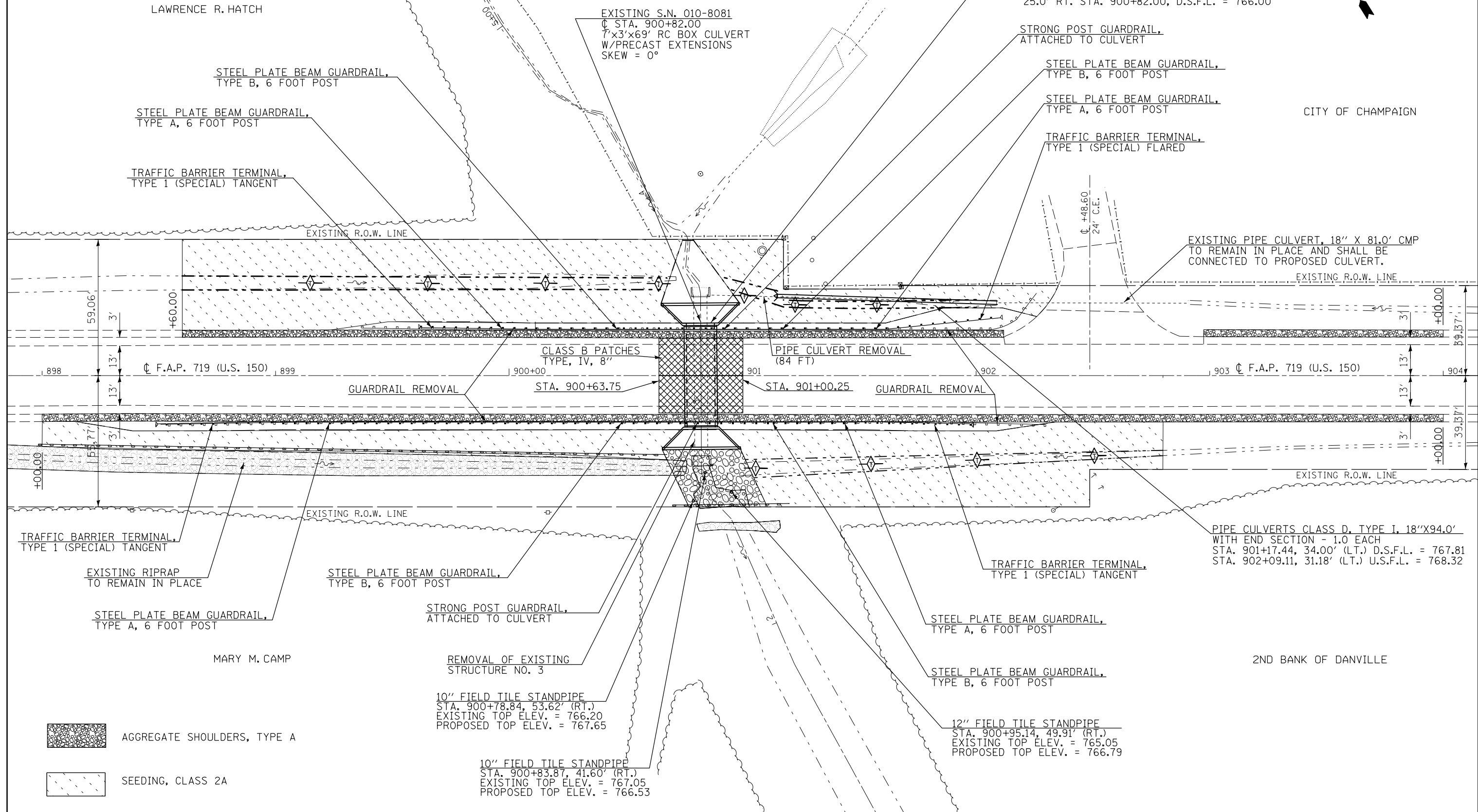


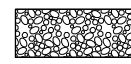

STATION	EXISTING & PROPOSED RT. DITCH	EXISTING & PROPOSED LT. DITCH	CL. F.A.P. 719
898+00			
898+50	775.45	775.19	779.58
899+00	773.24	773.41	777.98
899+50	771.26	771.59	776.50
900+00	769.68	769.93	775.35
900+50	768.33	768.25	774.34
901+00	766.00	766.90	773.61
901+50	768.13	767.45	773.12
902+00	767.87	768.19	772.77
902+50	768.94	768.71	772.57
903+00	769.65	769.68	772.77
903+50	770.43	770.86	773.17
904+00	771.34	771.55	773.83

**DETAILED PLAN SHEET
CULVERT NO. 3**

NOTE:
AREAS SHOWN FOR SEEDING ARE FOR REPRESENTATION ONLY.
SEE EROSION CONTROL SHEET FOR STATION LAYOUT.

PROPOSED S.N. 010-8153
 STA. 900+82.00
 1 - 12'-0" X 5'-0" X 50'-0"
 PRECAST CONCRETE BOX CULVERT
 W/ BOX CULVERT END SECTIONS - 2.0 EACH
 SKEW = 0°
 25.0' LT. STA. 900+82.00, U.S.F.L. = 766.10
 25.0' RT. STA. 900+82.00, D.S.F.L. = 766.00



-  AGGREGATE SHOULDERS, TYPE A
-  SEEDING, CLASS 2A

10" FIELD TILE STANDPIPE
 STA. 900+78.84, 53.62' (RT.)
 EXISTING TOP ELEV. = 766.20
 PROPOSED TOP ELEV. = 767.65

10" FIELD TILE STANDPIPE
 STA. 900+83.87, 41.60' (RT.)
 EXISTING TOP ELEV. = 767.05
 PROPOSED TOP ELEV. = 766.53

12" FIELD TILE STANDPIPE
 STA. 900+95.14, 49.91' (RT.)
 EXISTING TOP ELEV. = 765.05
 PROPOSED TOP ELEV. = 766.79

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
p:\11084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05776\Drawings\Design\0570620-shr-plan.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILED PLAN SHEET
CULVERT NO. 3 / PROPOSED S.N. 010-8153**

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	50
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

Benchmark: Chiseled square on top of center of south concrete end section of A.R.B.C., Sta. 900+83.42, 34.26' RT., Elev. 769.552.

Existing Structure: S.N. 010-8081 is a 7'x3' R.C. Box Culvert that was originally built in 1925 as part of Route 39, Section 13, at Sta. 900+87. In 1998, the culvert was extended on each end as part of FAS 1518 & FAP 719, Section 12(RS-3,B-1) & 13RS-2, Sta. 14+499.099. The existing structure is to be completely removed and replaced. There will be no salvage of any materials. Stage Construction will be utilized.

GENERAL NOTES

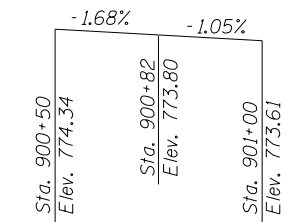
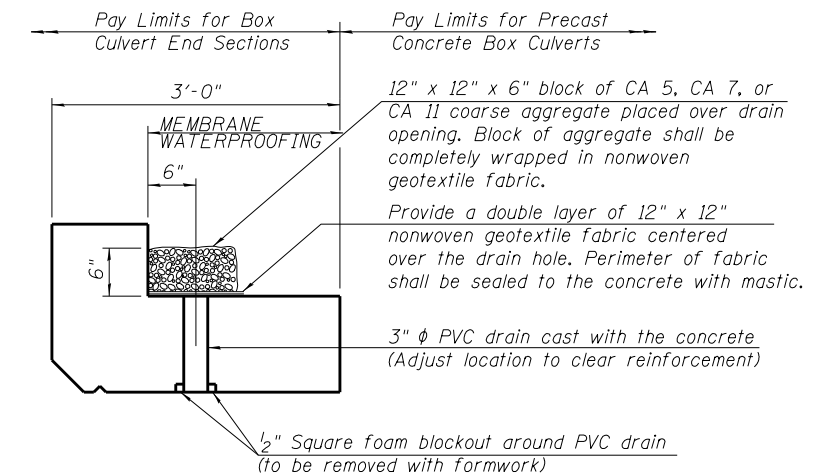
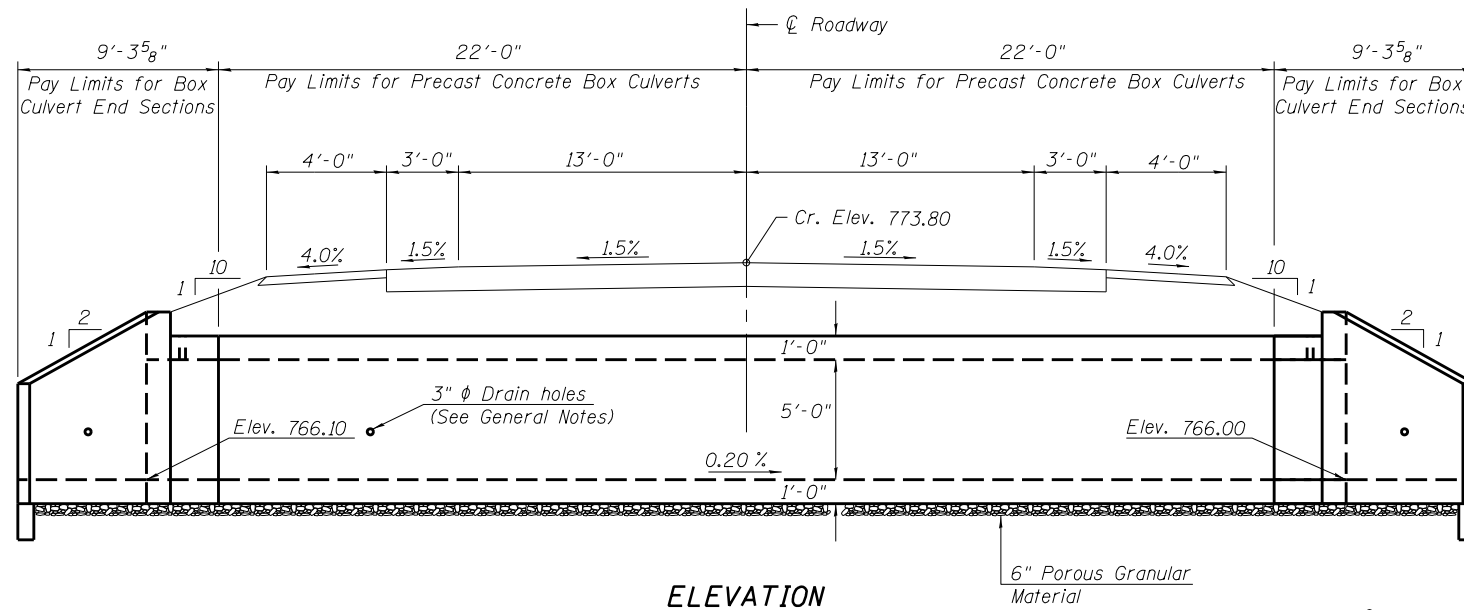
The design fill height for this box is 1.5 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.

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.



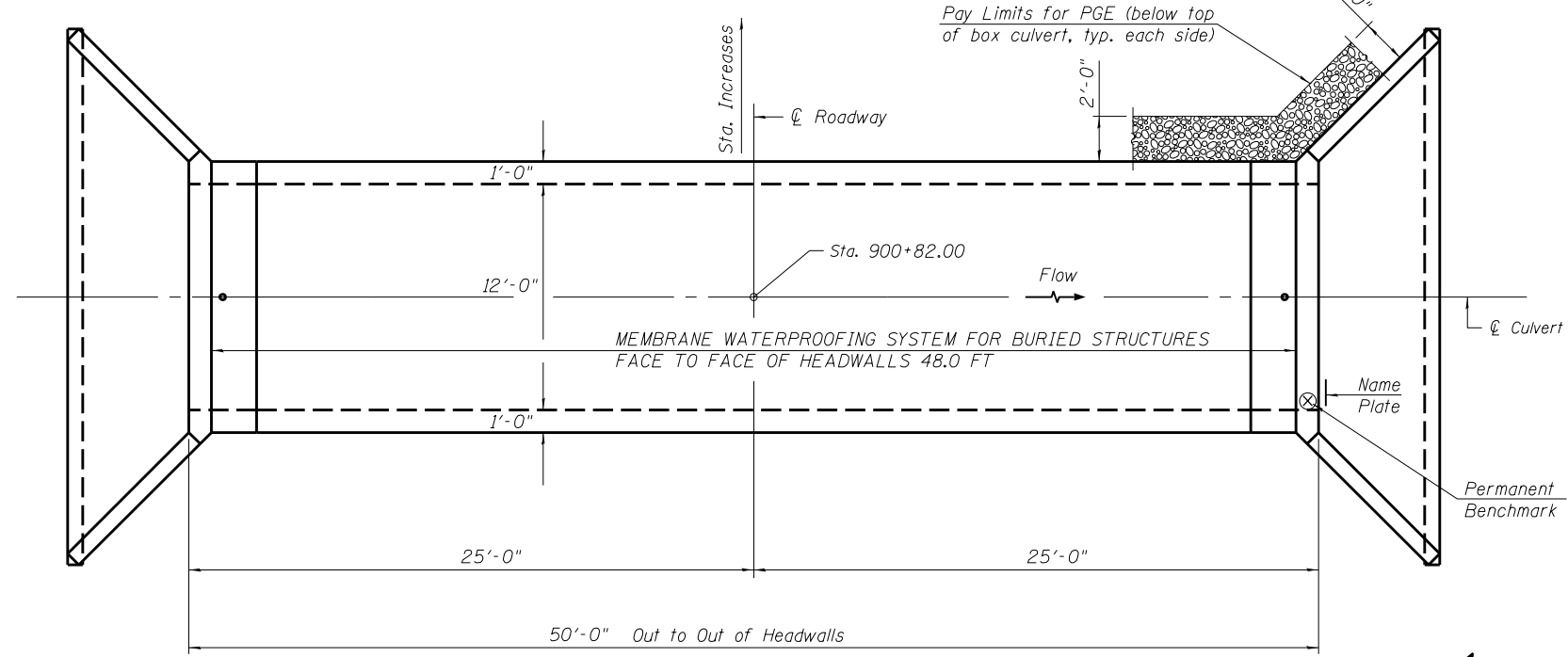
DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design Specifications
7th Edition with 2015 and 2016 interims

LOADING HL-93

DESIGN STRESSES
PRECAST UNITS
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 3	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 3	Each	2.0
Precast Concrete Box Culverts 12'x5' (Special)	Foot	44.0
Porous Granular Embankment	Cu. Yd.	210.0
Membrane Waterproofing System for Buried Structures	Sq Yd	86.0



WATERWAY INFORMATION

Drainage Area = 0.331 sq. mi. Low Grade Elev. = 773.80 @ Sta. 900+82.00

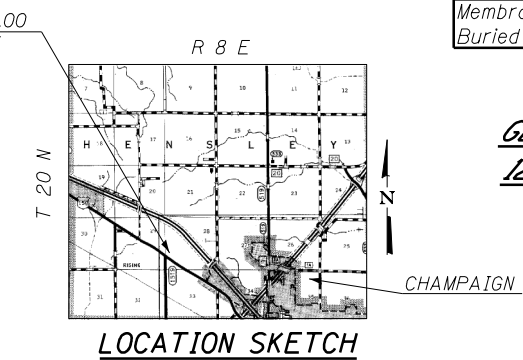
Flood	Freq. Yr.	Q C.F.S.	Opening Exist. Prop.	Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	260	21	52			Over 770.39
Base	50	457	21	60			Over 771.83
Overtopping	100	550	21	60			Over 772.85
Max. Calc.	500	788	21	60			Over Over

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	762.43	762.33

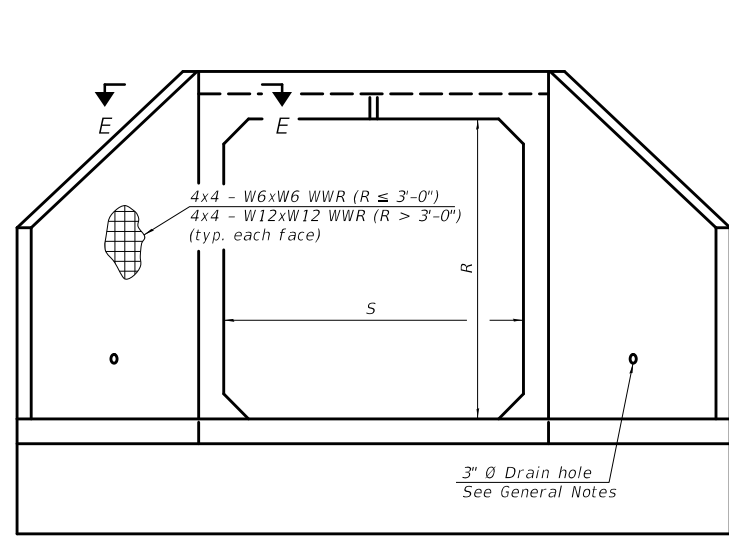
STATION 900+82.00
BUILT ____ BY
STATE OF ILLINOIS
F.A.P. 719 SEC. 13CR
LOADING HL-93
STR. NO. 010-8153

NAME PLATE
See Std. 515001

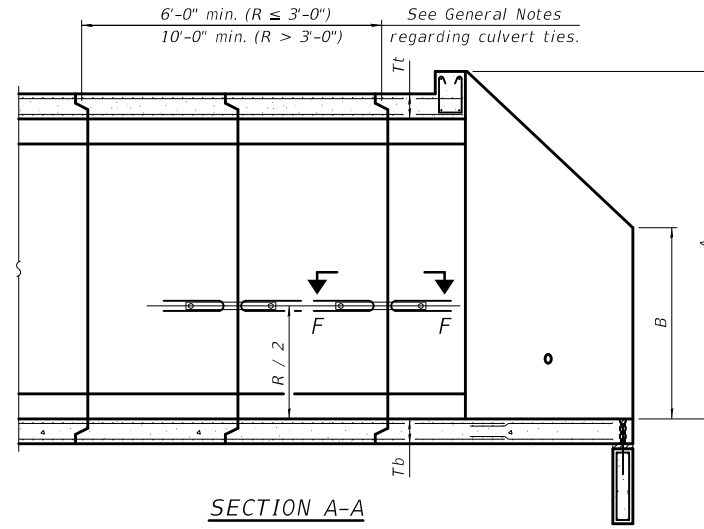


GENERAL PLAN AND ELEVATION
12'x5' PRECAST BOX CULVERT
F.A.P. 719 SEC. 13CR
CHAMPAIGN COUNTY
STATION 900+82.00
S.N. 010-8153

CULVERT NO. 3 PROPOSED S.N. 010-8153



END VIEW



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.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

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.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

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 unit price for Box Culvert End Sections of the culvert number specified.

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". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

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 culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section 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 the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

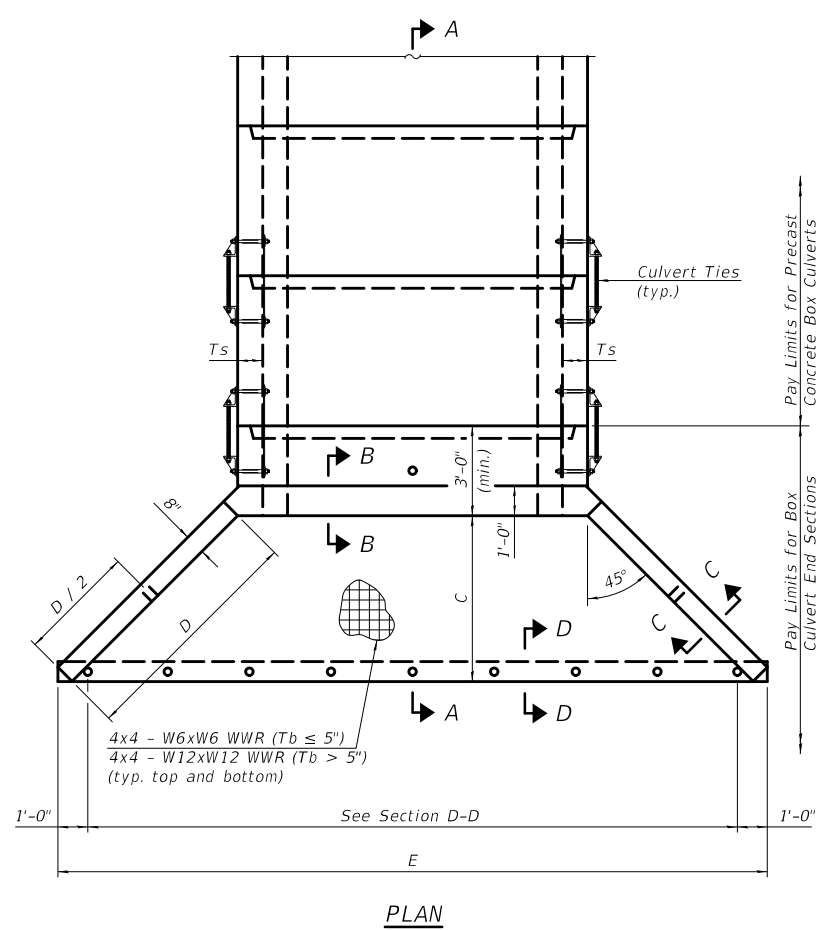
APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	10'-4 3/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 1/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	12'-4 3/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 1/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 1/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 1/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	15'-10 3/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/8"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/8"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/8"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 1/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 1/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 1/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 3/4"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 3/4"	9'-11"	25'-5 3/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/8"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/8"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 1/8"	4'-7"	20'-3 1/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 1/8"	6'-0"	22'-3 1/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/8"	7'-4"	24'-1 3/8"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/8"	8'-9"	26'-1 3/8"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/8"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	25'-6 3/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 3/8"	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft. (Sheet 1 of 2)

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO. 010-8150



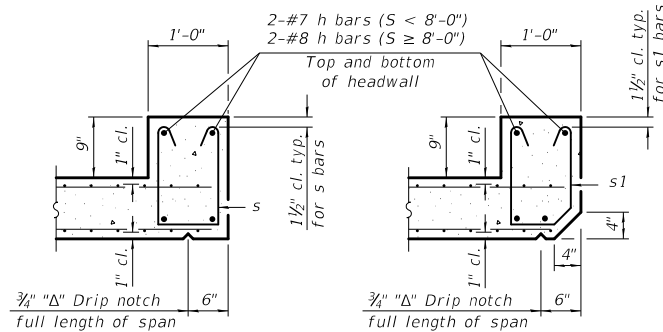
PLAN

SCB-AES

2-17-2017

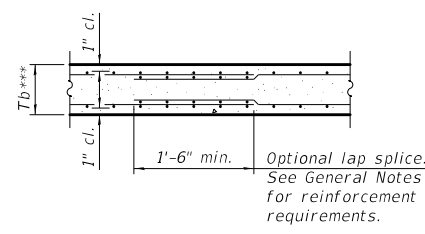
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-CAST CONCRETE BOX CULVERT APRON END SECTION DETAILS CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\1\084EBIDINTEG\Illinois.gov\PI\DOT Documents\DOT Offices\District 5\Projects\05796\Drawings\Design\0570620-shd-Details.dwg	PLLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			719	13CR	CHAMPAIGN	109	52	
MODELNAME =	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70620					
						ILLINOIS FED. AID PROJECT					

CULVERT NO. 3 PROPOSED S.N. 010-8153

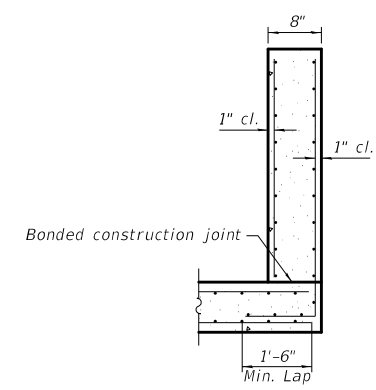


SECTION B-B
(Top slab at downstream end)

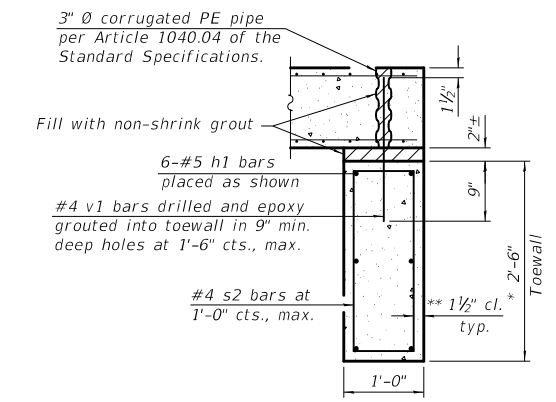
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

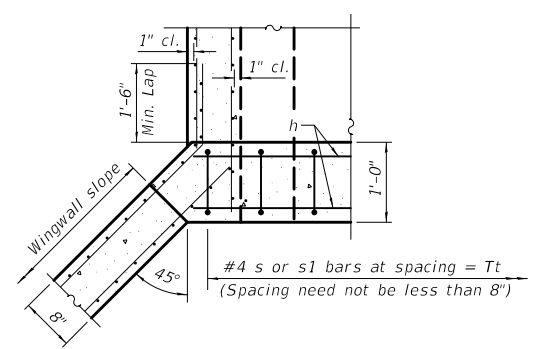


SECTION C-C

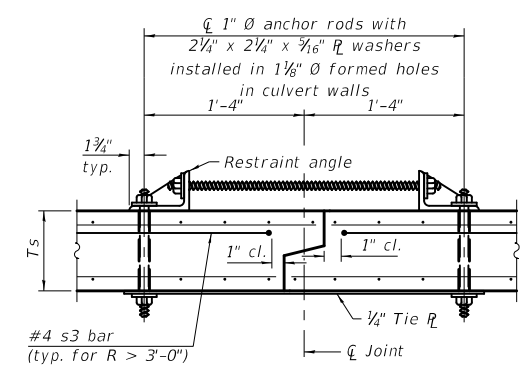


SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.



SECTION E-E



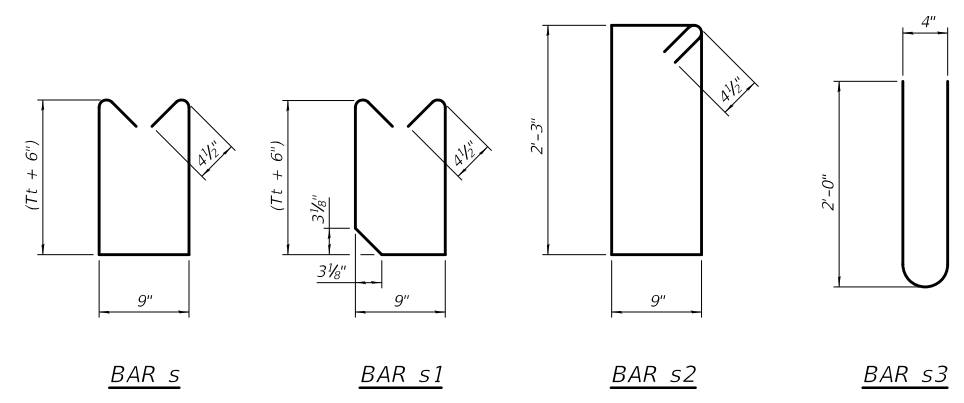
SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

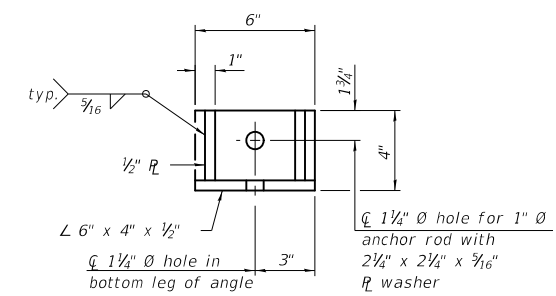
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids 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 method.

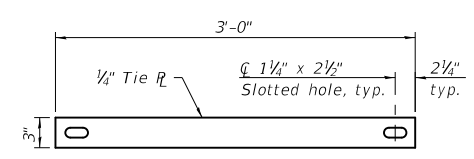
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SCB-AES 2-17-2017



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

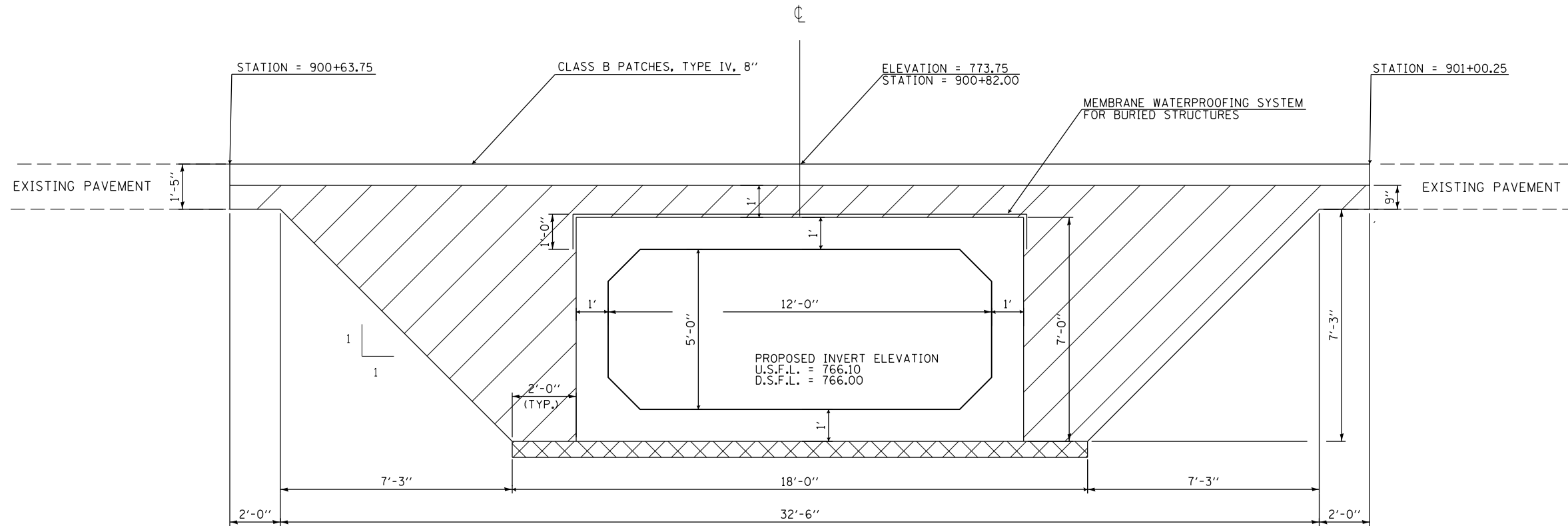
Notes:
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" 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.

(Sheet 2 of 2)
PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS – STRUCTURE NO. 010-8150

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-CAST CONCRETE BOX CULVERT APRON END SECTION DETAILS CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\05796\Drawings\Design\0570620-shd-Details.dwg		DRAWN	REVISED			719	13CR	CHAMPAIGN	109	53
PLOT SCALE = 40.0000' / in.		CHECKED	REVISED			CONTRACT NO. 70620				
MODELNAME		DATE	REVISED			ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET 5	OF 12 SHEETS	STA.	TO STA.

POROUS GRANULAR EMBANKMENT DETAIL

CULVERT NO. 3 / PROPOSED S.N. 010-8153



BILL OF MATERIAL

Item	Unit	Total
POROUS GRANULAR EMBANKMENT	CU YD	210.0
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	86.0

LEGEND

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

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.

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.

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

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

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

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

SEE ARTICLE 107.28 FOR CONTRACTOR SAFETY RESPONSIBILITY.

••DEPTH VARIES DETERMINED BY GEOTECHNICAL ENGINEER

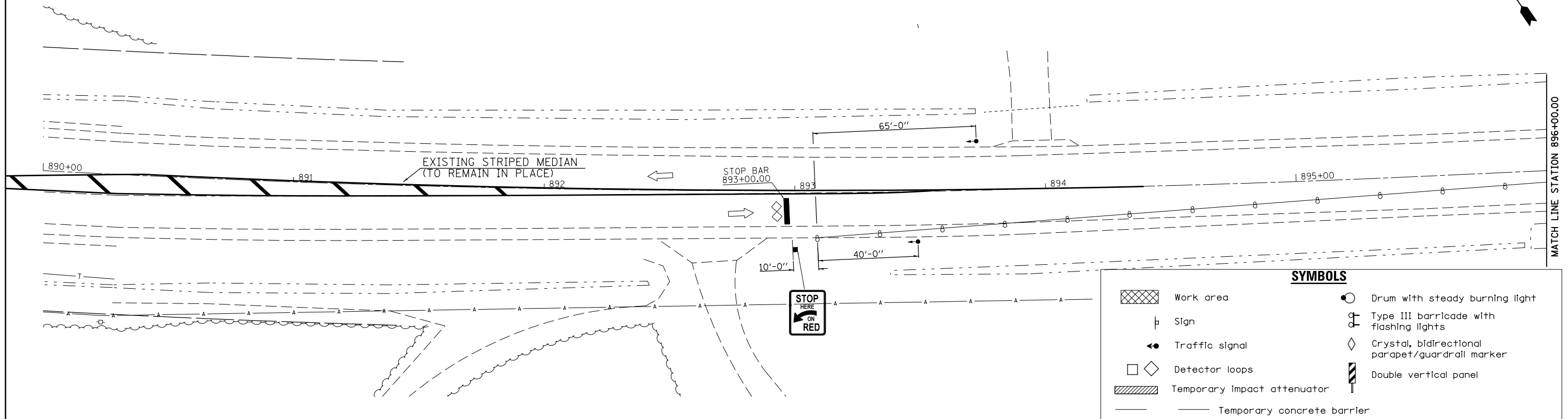
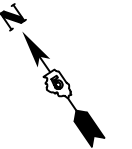
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

SEE SPECIAL PROVISION

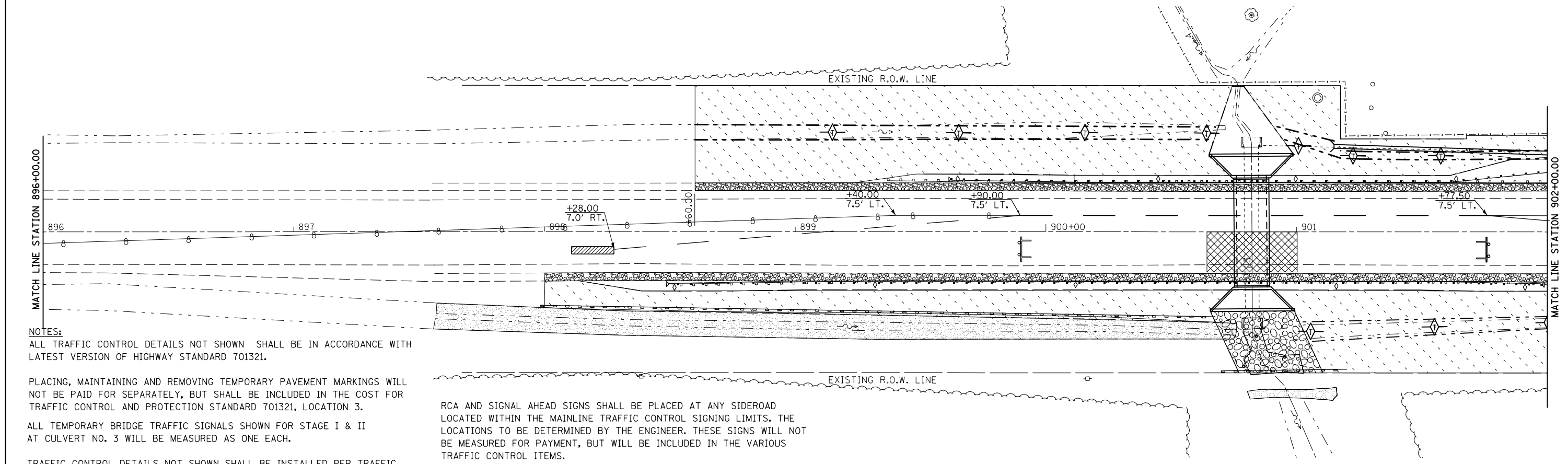
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POROUS GRANULAR EMBANKMENT DETAIL CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\0570620-shr-Detail.dwg	DESIGNED BY	REVISED BY	719			13CR	CHAMPAIGN	109	54	
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 5/7/2018	DATE -	REVISED -			SCALE:	SHEET 6 OF 12 SHEETS	STA. TO STA.		

STAGING DETAIL / CULVERT NO. 3 STAGE ONE

WORK ZONE PAVEMENT MARKINGS:
EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH WORK ZONE PAVEMENT MARKINGS SHALL BE COVERED COMPLETELY WITH PAVEMENT MARKING BLACKOUT TAPE. PAVEMENT MARKING BLACKOUT TAPE WILL BE PAID FOR BY THE FOOT.



SYMBOLS	
	Work area
	Sign
	Traffic signal
	Detector loops
	Temporary impact attenuator
	Temporary concrete barrier
	Drum with steady burning light
	Type III barricade with flashing lights
	Crystal, bidirectional parapet/guardrail marker
	Double vertical panel



NOTES:
ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 3.

ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II AT CULVERT NO. 3 WILL BE MEASURED AS ONE EACH.

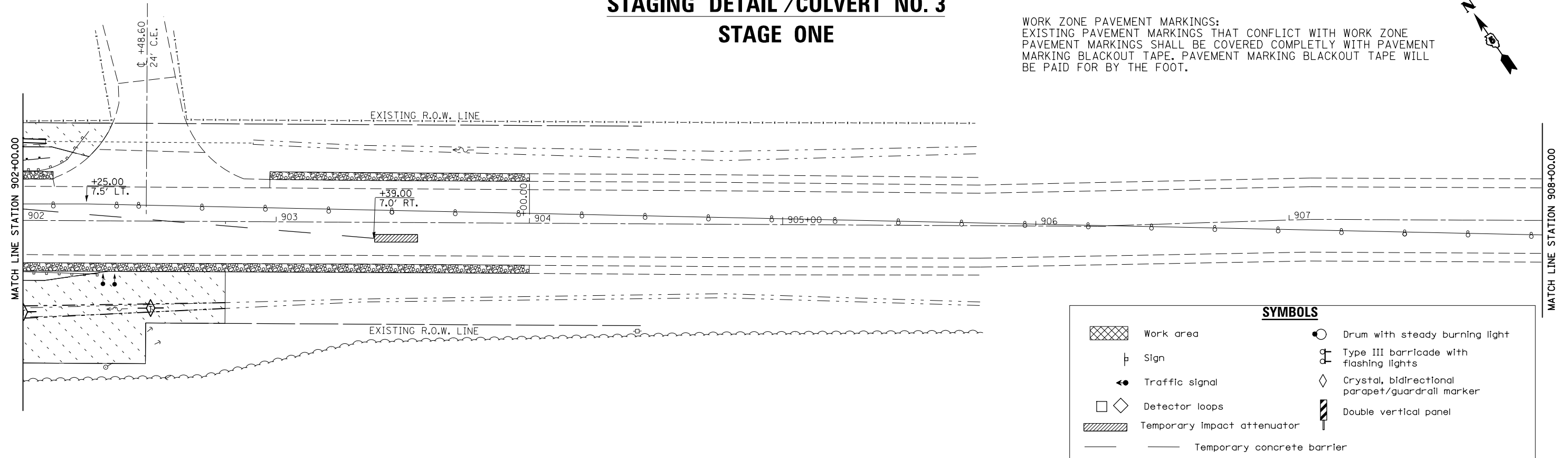
TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

RCA AND SIGNAL AHEAD SIGNS SHALL BE PLACED AT ANY SIDEROAD LOCATED WITHIN THE MAINLINE TRAFFIC CONTROL SIGNING LIMITS. THE LOCATIONS TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.

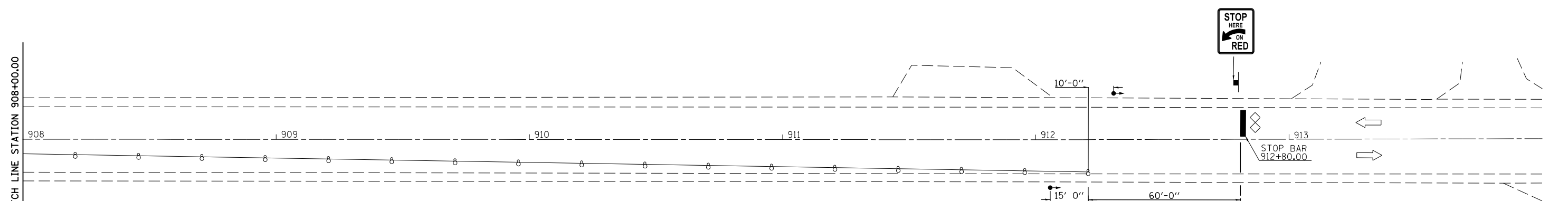
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBID\INTEG\illinois.gov\PIWID\Documents\IDOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-Staging.dgn	PLLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			719	13CR	CHAMPAIGN	109	55	
#MODELNAME#	PLLOT DATE = 3/21/2018	DATE -	REVISED -			CONTRACT NO. 70620					
						ILLINOIS FED. AID PROJECT					

STAGING DETAIL / CULVERT NO. 3 STAGE ONE

WORK ZONE PAVEMENT MARKINGS:
EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH WORK ZONE PAVEMENT MARKINGS SHALL BE COVERED COMPLETELY WITH PAVEMENT MARKING BLACKOUT TAPE. PAVEMENT MARKING BLACKOUT TAPE WILL BE PAID FOR BY THE FOOT.



NOTE:
TEMPORARY RUMBLE STRIPS SHALL BE PLACED IN THE WEST BOUND LANE. SEE SCHEDULE OF QUANTITIES FOR SPECIFIC LOCATIONS. TEMPORARY RUMBLE STRIPS MAY BE RELOCATED WITH ENGINEER APPROVAL.



NOTES:
ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 3.

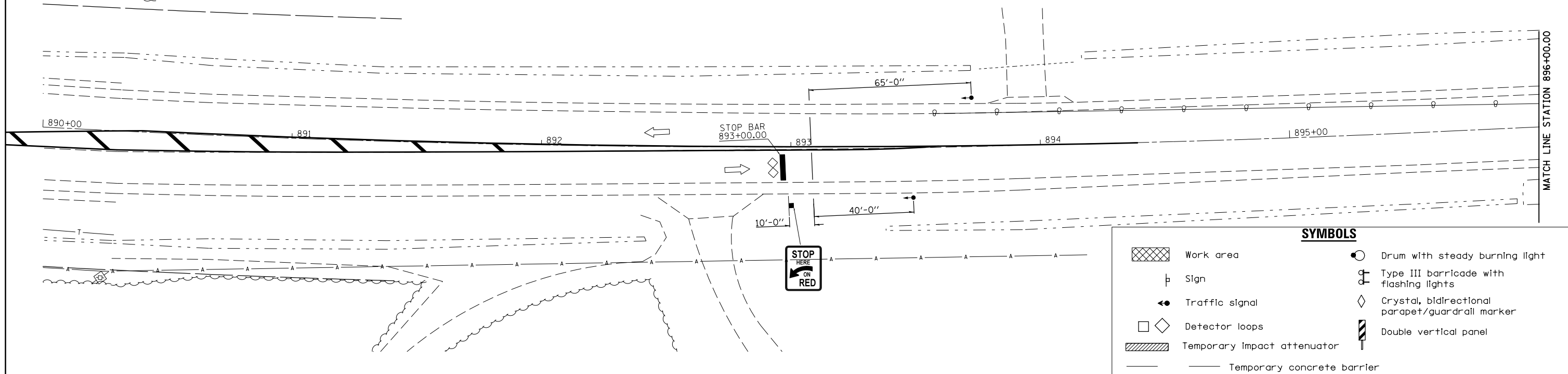
ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II AT CULVERT NO. 3 WILL BE MEASURED AS ONE EACH.

TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

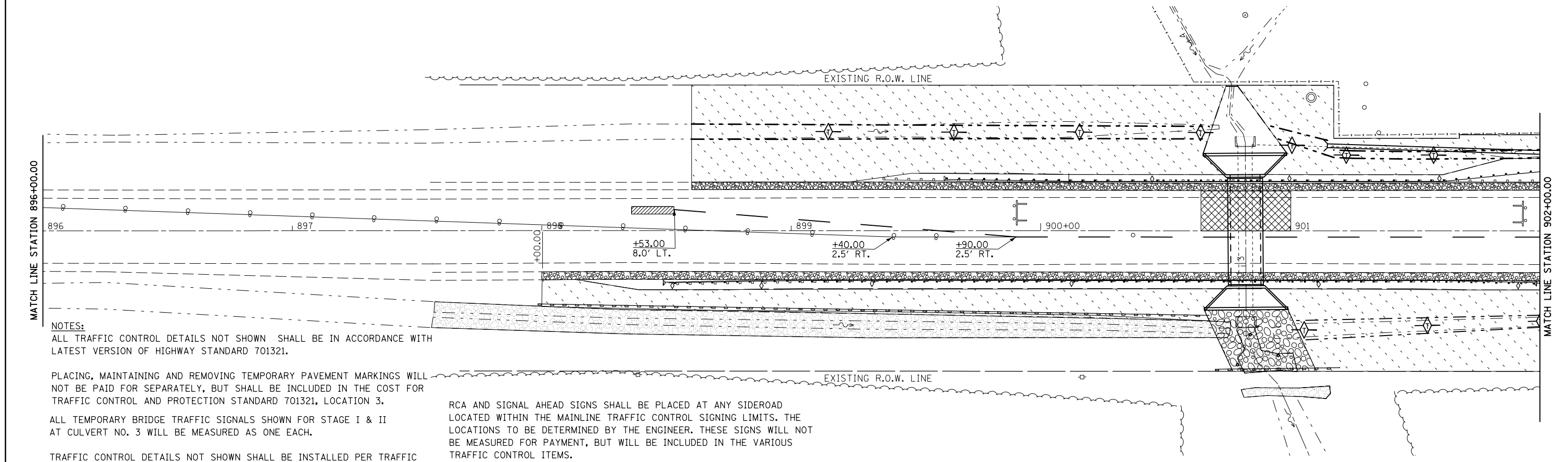
RCA AND SIGNAL AHEAD SIGNS SHALL BE PLACED AT ANY SIDEROAD LOCATED WITHIN THE MAINLINE TRAFFIC CONTROL SIGNING LIMITS. THE LOCATIONS TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-Staging.dwg	DESIGNED -	REVISED -	719			13CR	CHAMPAIGN	109	56	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70620							
#MODELNAME#	PLOT DATE = 3/21/2018	DATE -	REVISED -	SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				

STAGING DETAIL / CULVERT NO. 3 STAGE TWO



SYMBOLS	
	Work area
	Sign
	Traffic signal
	Detector loops
	Temporary impact attenuator
	Temporary concrete barrier
	Drum with steady burning light
	Type III barricade with flashing lights
	Crystal, bidirectional parapet/guardrail marker
	Double vertical panel



NOTES:
 ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 3.

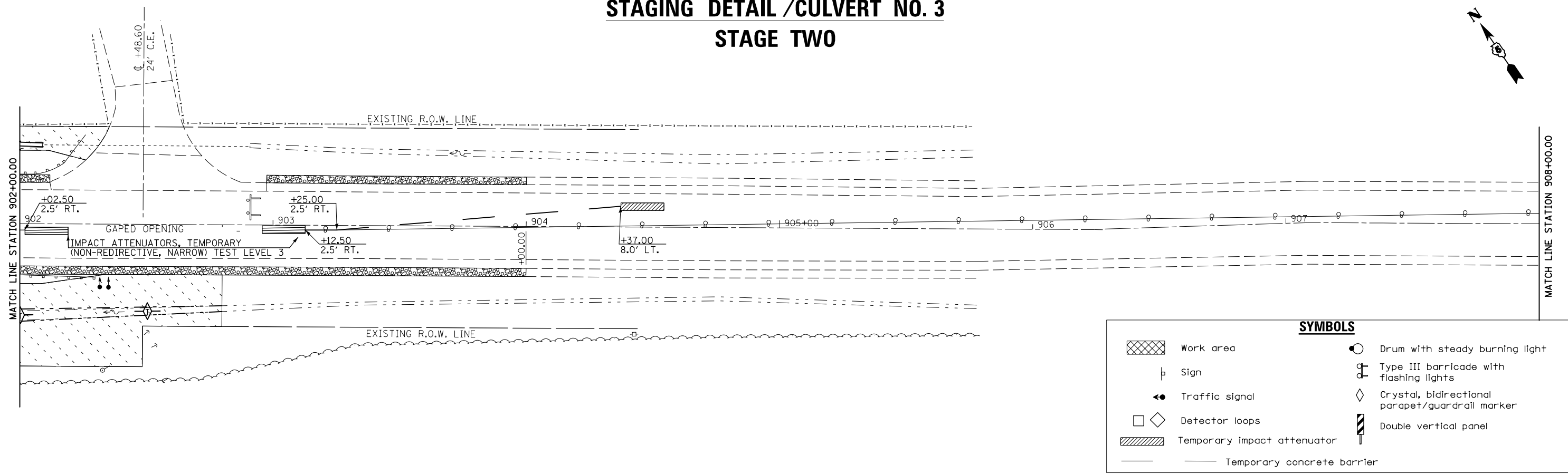
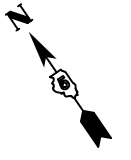
ALL TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN FOR STAGE I & II AT CULVERT NO. 3 WILL BE MEASURED AS ONE EACH.

TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE INSTALLED PER TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

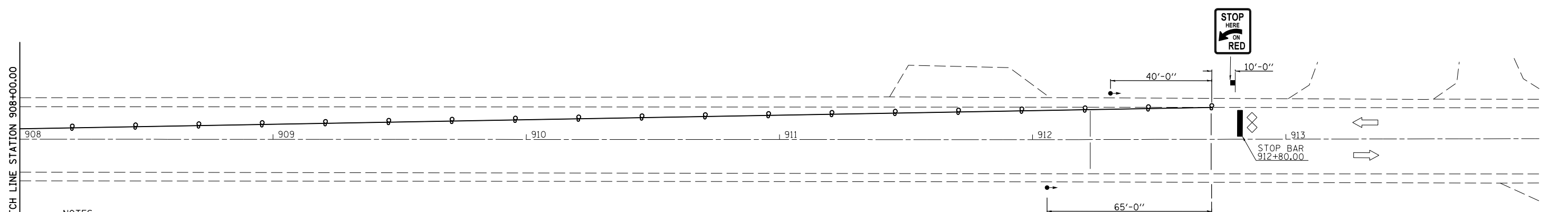
RCA AND SIGNAL AHEAD SIGNS SHALL BE PLACED AT ANY SIDEROAD LOCATED WITHIN THE MAINLINE TRAFFIC CONTROL SIGNING LIMITS. THE LOCATIONS TO BE DETERMINED BY THE ENGINEER. THESE SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL ITEMS.

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-Staging.dwg						F.A.P. 719	13CR	CHAMPAIGN	109	57	
PLOT SCALE = 40.0000' / in.						CHECKED -	CONTRACT NO. 70620				
PLOT DATE = 3/21/2018						DATE -	ILLINOIS FED. AID PROJECT				

STAGING DETAIL /CULVERT NO. 3 STAGE TWO



NOTE:
TEMPORARY RUMPLE STRIPS SHALL BE PLACED IN THE WEST BOUND LANE. SEE SCHEDULE OF QUANTITIES FOR SPECIFIC LOCATIONS. TEMPORARY RUMPLE STRIPS MAY BE RELOCATED WITH ENGINEER APPROVAL.



NOTES:
ALL TRAFFIC CONTROL DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH LATEST VERSION OF HIGHWAY STANDARD 701321.

PLACING, MAINTAINING AND REMOVING TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321, LOCATION 3.

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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL CULVERT NO. 3 /PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05796\DRAWING\Design\0570620-sh1-Staging.dwg						719	13CR	CHAMPAIGN	109	58	
PLOT SCALE = 40.0000' / in.						CHECKED -	REVIS	CONTRACT NO. 70620			
PLOT DATE = 3/21/2018						DATE -	REVIS	ILLINOIS FED. AID PROJECT			
					SCALE:	SHEET 10 OF 12 SHEETS		STA. TO STA.			

GENERAL NOTES

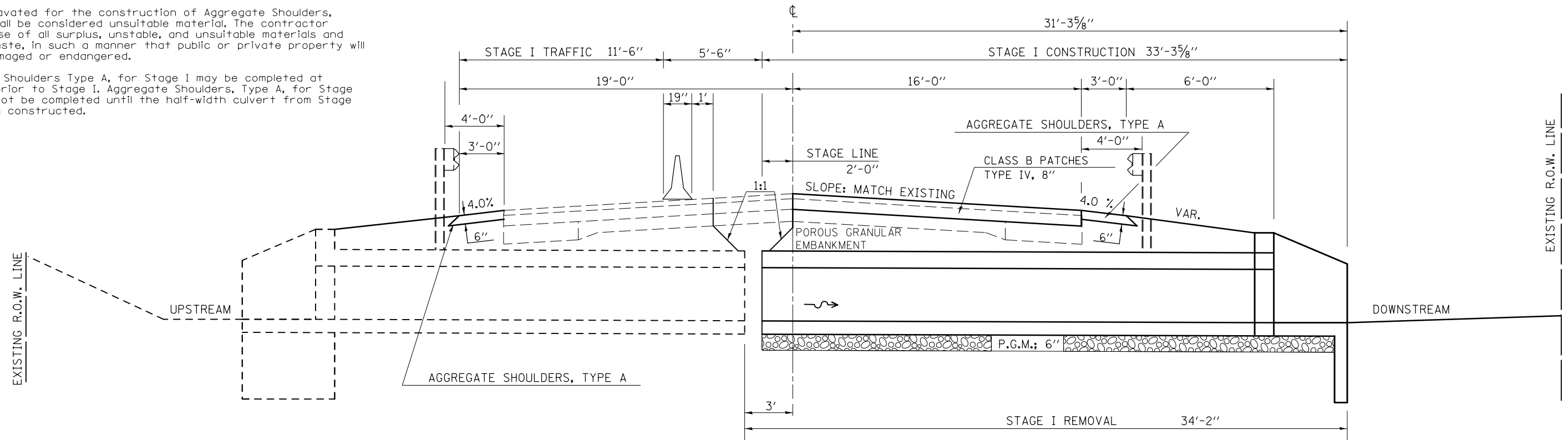
Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.

The Engineer may reduce or eliminate lengths or locations of Aggregate Shoulders, Type A, and Earth Excavation Widening based on field conditions.

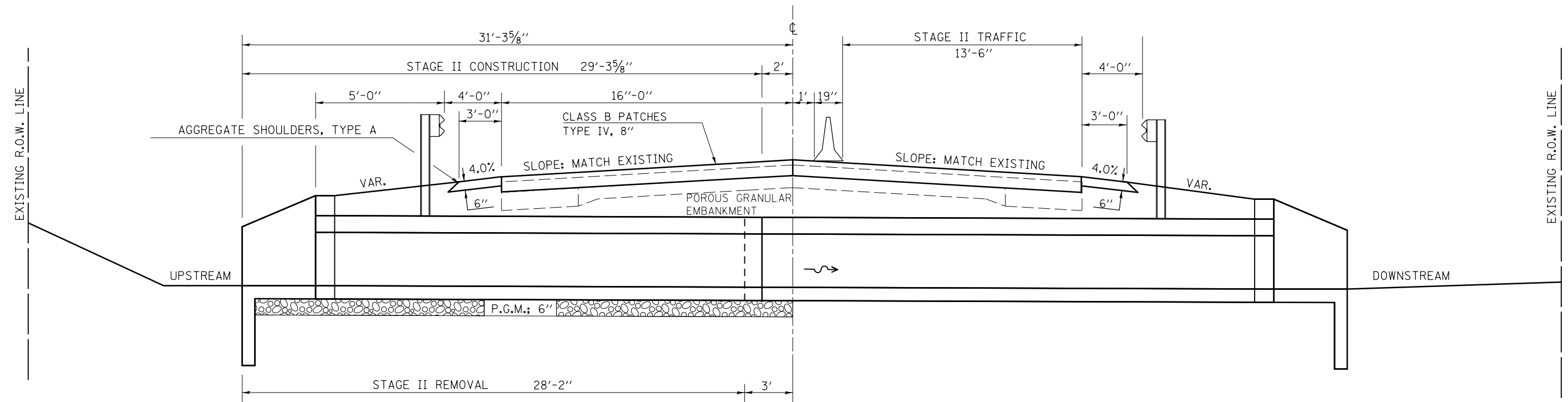
Earth excavated for the construction of Aggregate Shoulders, Type A, shall be considered unsuitable material. The contractor shall dispose of all surplus, unstable, and unsuitable materials and organic waste, in such a manner that public or private property will not be damaged or endangered.

Aggregate Shoulders Type A, for Stage I may be completed at any time prior to Stage I. Aggregate Shoulders, Type A, for Stage II should not be completed until the half-width culvert from Stage I has been constructed.

**CULVERT NO. 3
PROPOSED S.N. 010-8153
STAGE I**

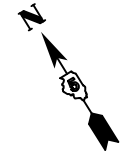


STAGE II



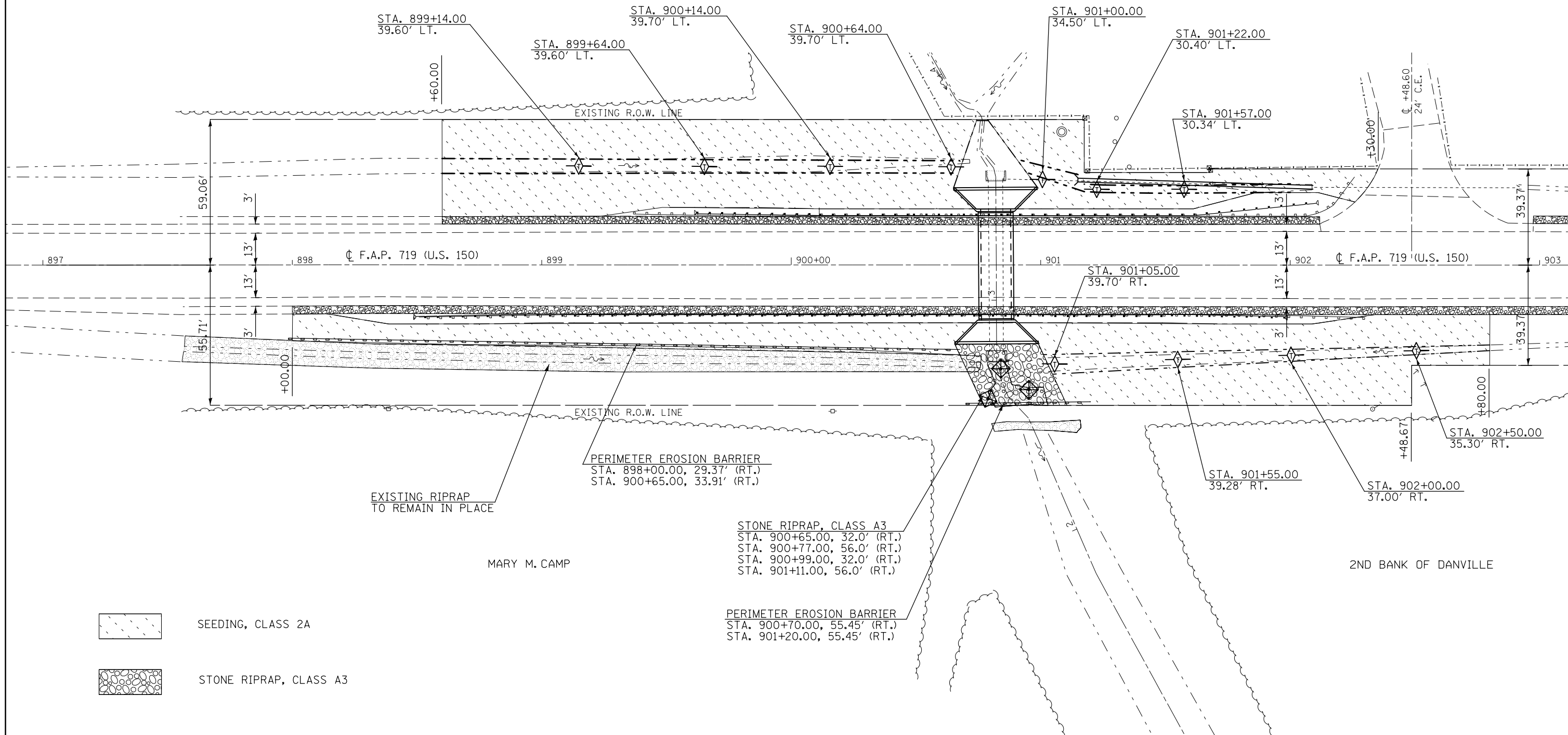
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\Drawings\Design\0570620-sh1-Details.dwg	DRAWN	REVISION	REVISION			719	13CR	CHAMPAIGN	109	59
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISION	REVISION			CONTRACT NO. 70620				
PLOT DATE = 3/21/2018	DATE -	REVISION	REVISION			ILLINOIS FED. AID PROJECT				

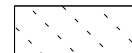
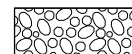
**EROSION CONTROL PLAN
CULVERT NO. 3**



LAWRENCE R. HATCH

CITY OF CHAMPAIGN



-  SEEDING, CLASS 2A
-  STONE RIPRAP, CLASS A3

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0570620-0570620-shr-Erosion Control\0570620-0570620-shr-Erosion Control.dwg		DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

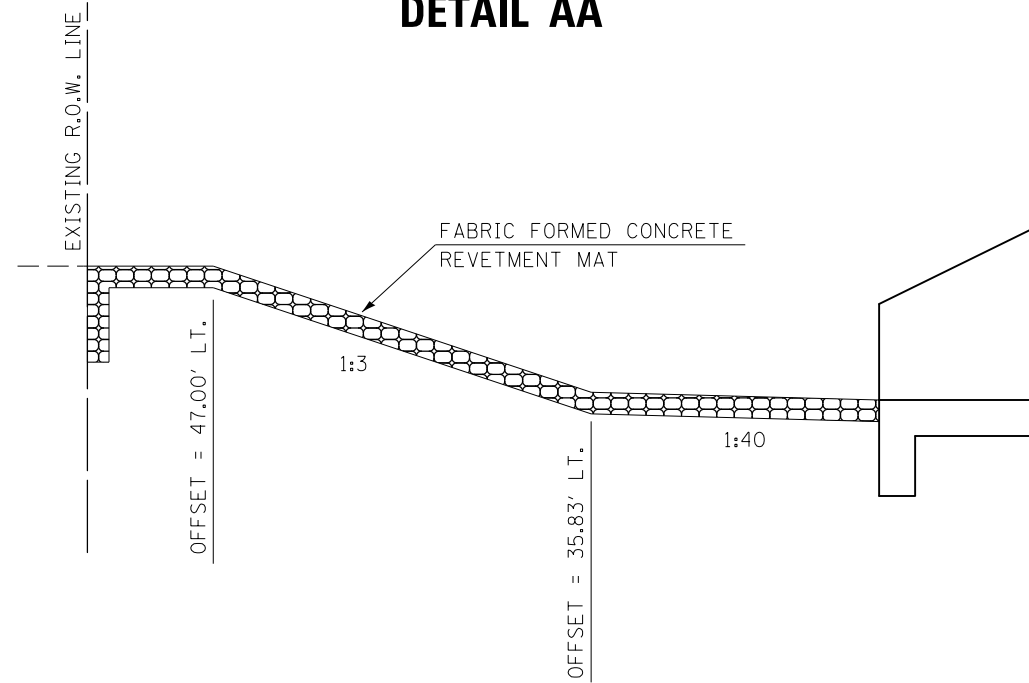
EROSION CONTROL PLAN CULVERT NO. 3 / PROPOSED S.N. 010-8153	
SCALE:	SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	60
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

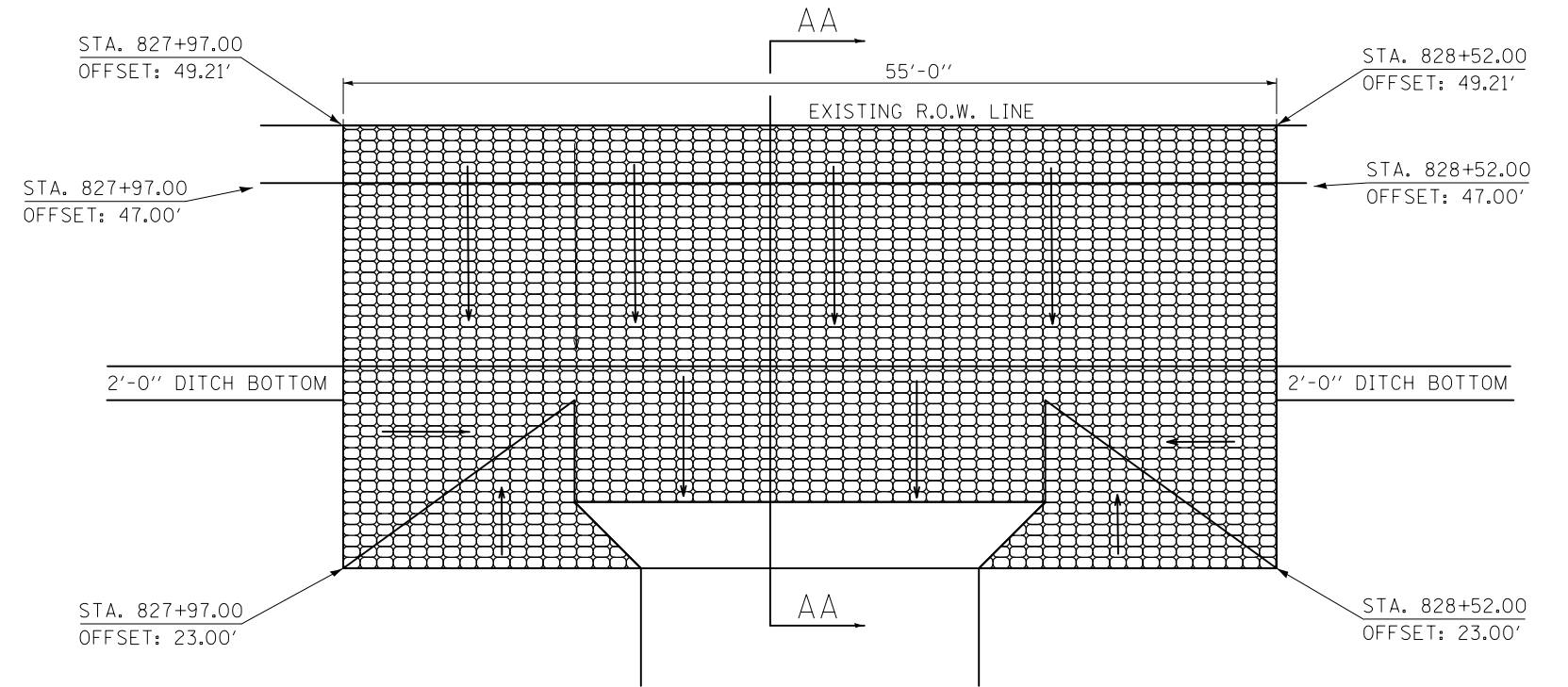
NOTES:
SEE HIGHWAY STANDARD 285001 FOR ADDITIONAL DETAILS THAT ARE NOT SHOWN IN PLAN DETAIL FOR FABRIC FORMED CONCRETE REVETMENT MAT.

REVETMENT MAT DETAIL CULVERT NO. 1

PROFILE VIEW DETAIL AA

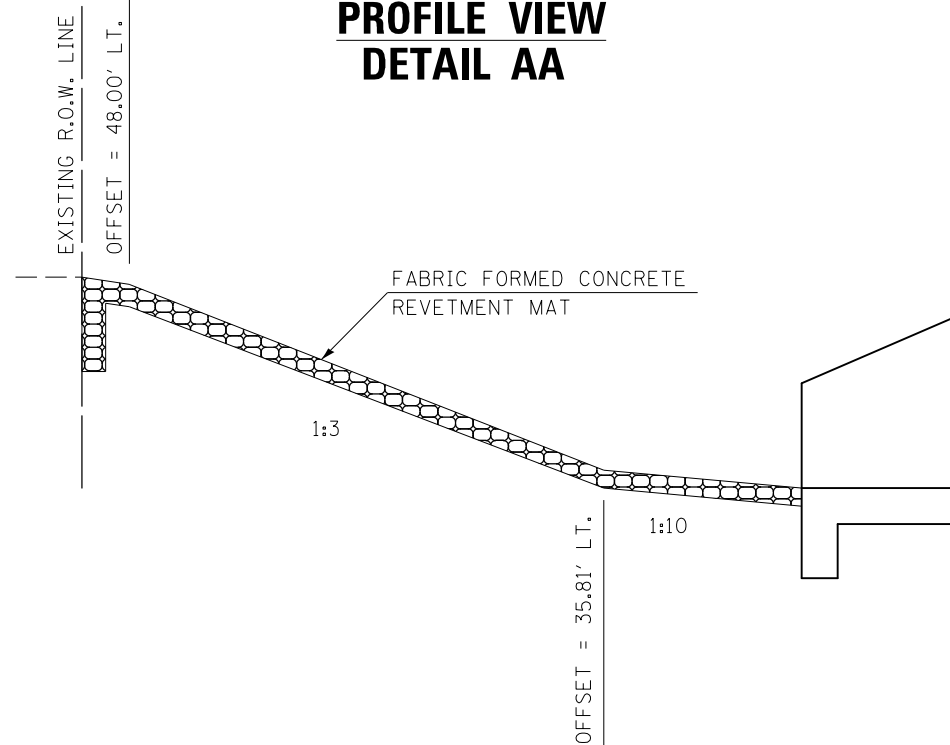


PLAN VIEW

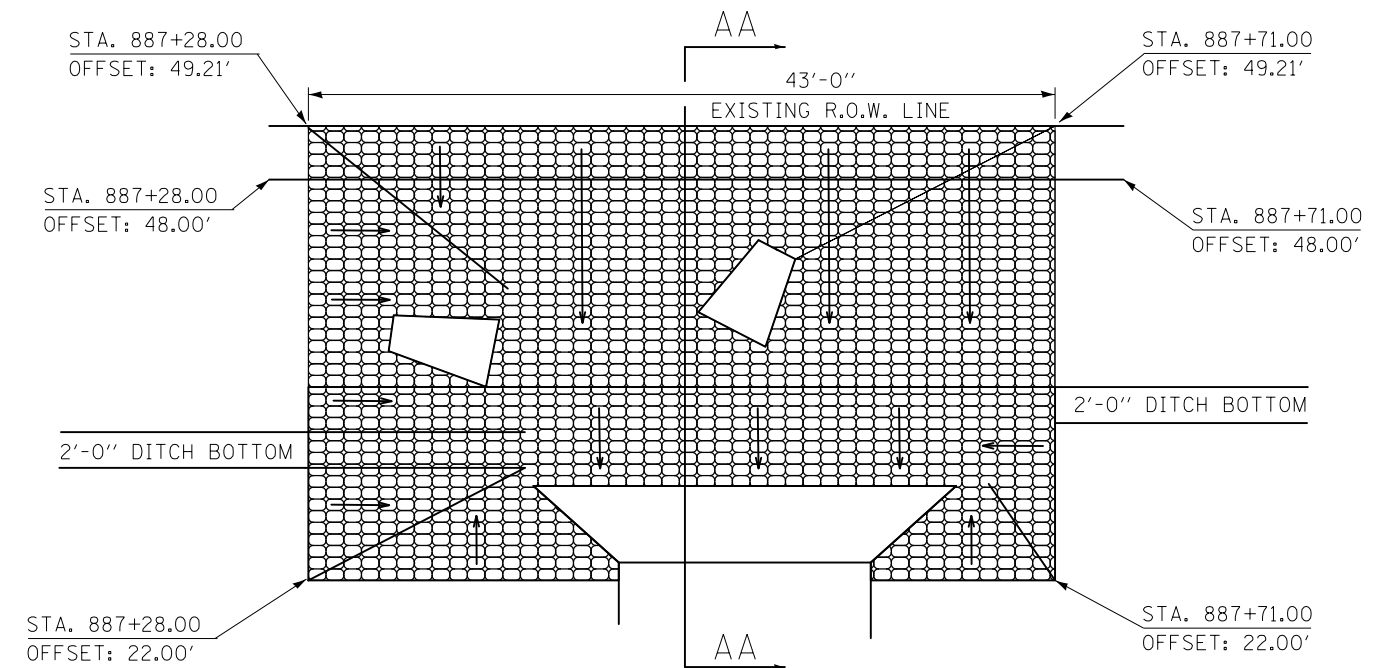


REVETMENT MAT DETAIL CULVERT NO. 2

PROFILE VIEW DETAIL AA

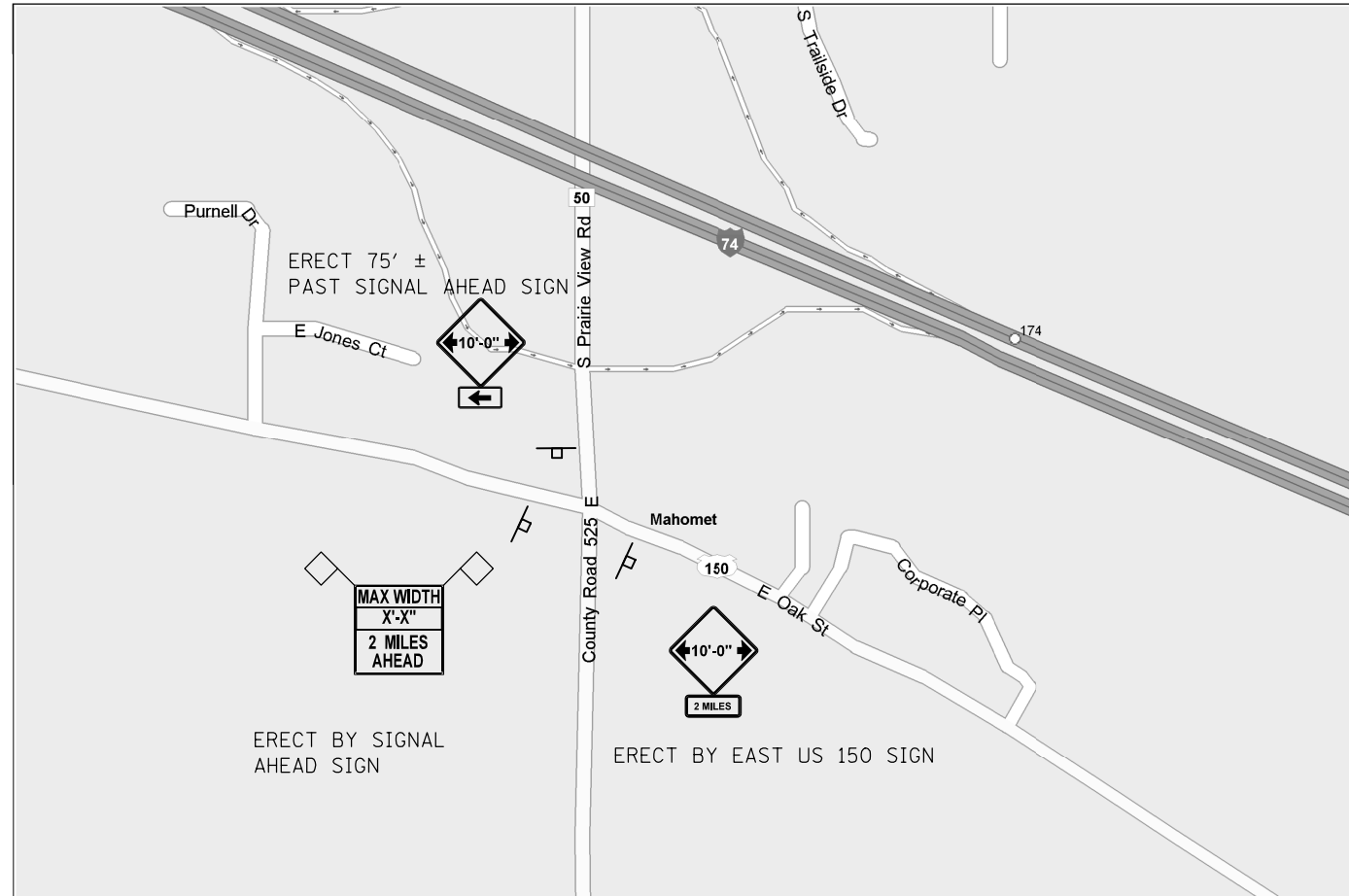


PLAN VIEW

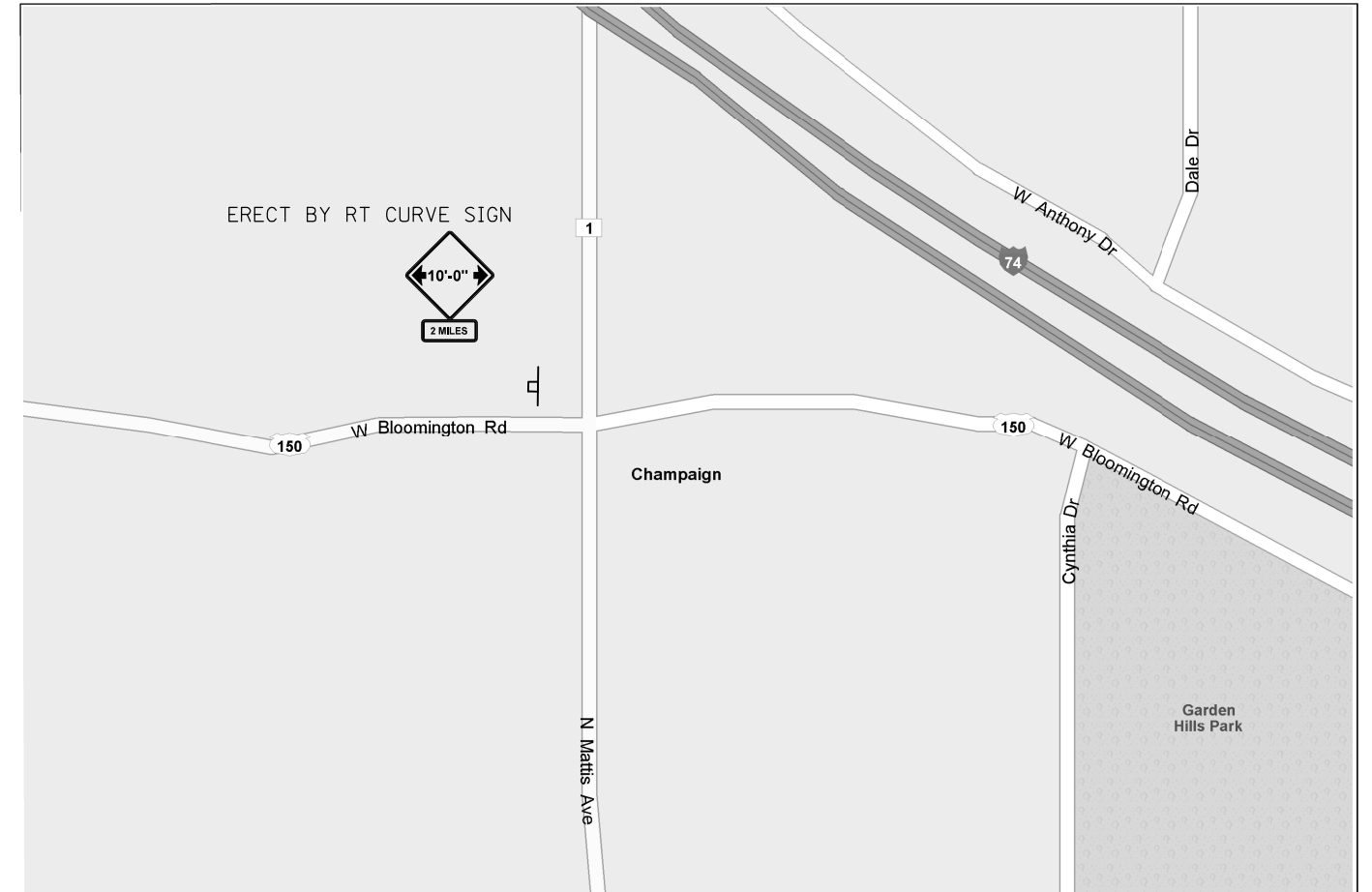


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REVETMENT MAT DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\05796\Drawings\Design\0570620-shr-Revetment	DRAWN	REVISION	REVISION					719	13CR	CHAMPAIGN	109	61
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/21/2018	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.				

PRAIRIEVIEW ROAD



MATTIS AVE.



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05796\Drawings\0579620-Sht-WRD.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION DETAIL

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	63
				CONTRACT NO. 70620
ILLINOIS FED. AID PROJECT				

PROSPECT AVE.



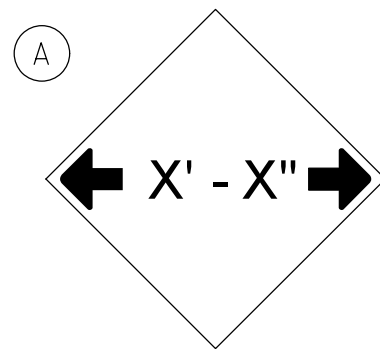
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 3/21/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION DETAIL

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

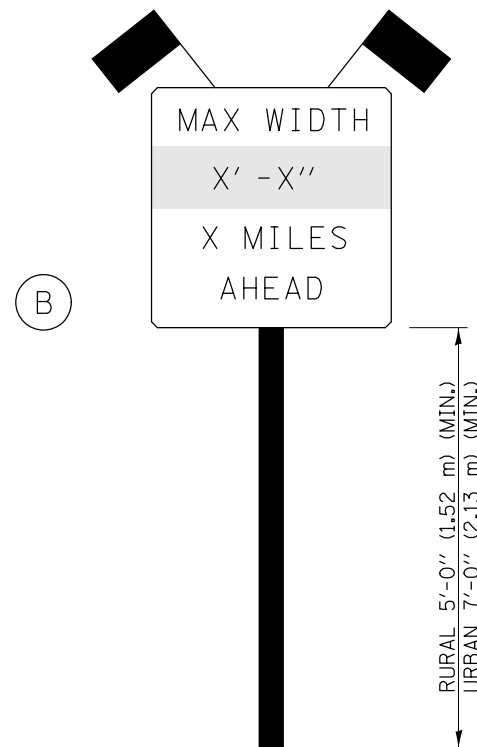
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	64
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	



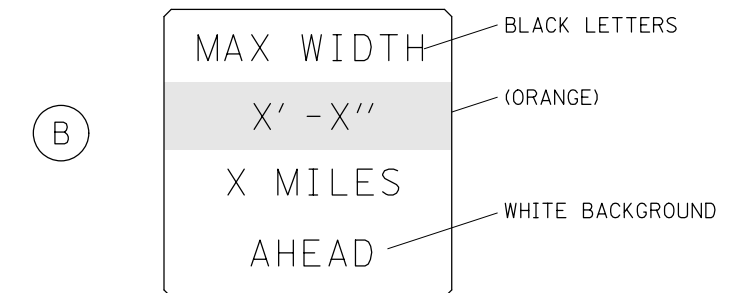
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

LOCATION	WIDTH RESTRICTION
CULVERT 1	11-0'
CULVERT 2	NONE
CULVERT 3	10-0'

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

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 03/11 -KJT
pw:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05796\DRAWING\0579620-Sht-WRD.dgn		CHECKED -	REVISED - 05/08
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		DATE -	REVISED - 7/09 - KJT

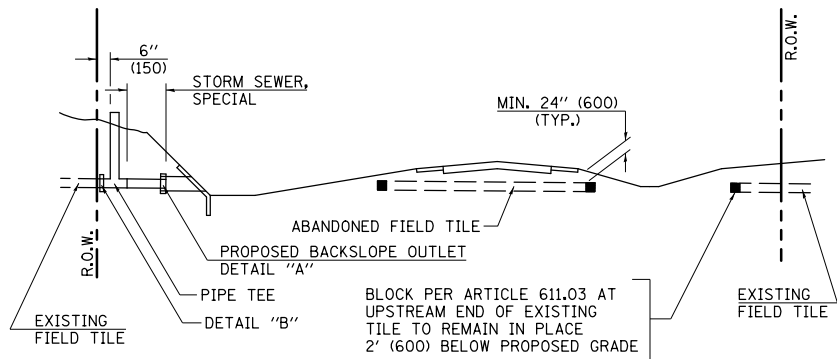
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION DETAIL

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

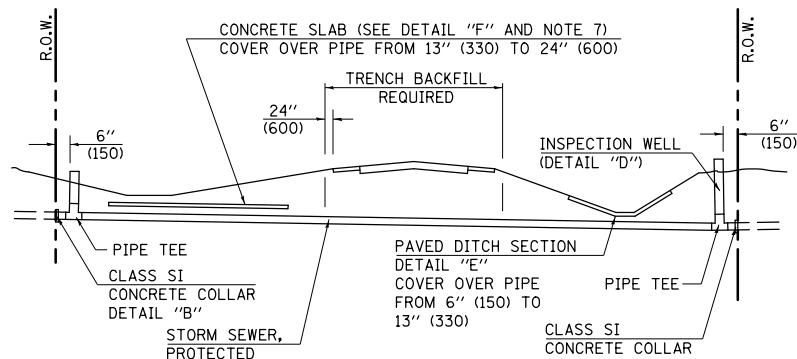
DISTRICT 5 DETAIL NO. X7200201

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	65
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70620	



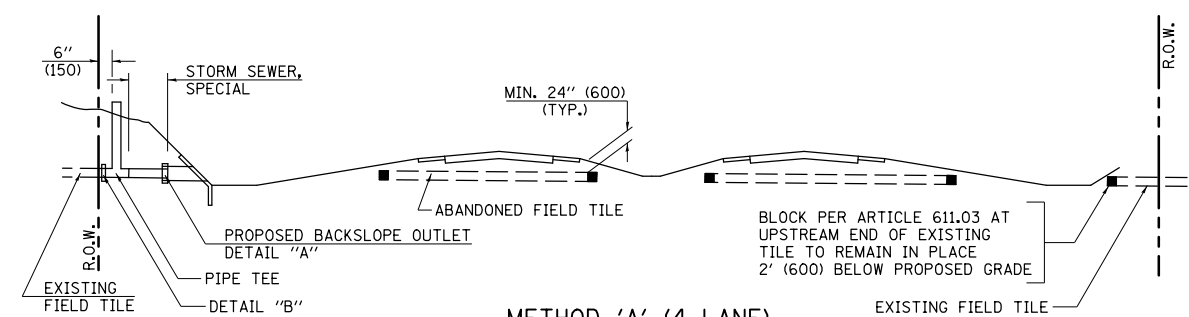
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



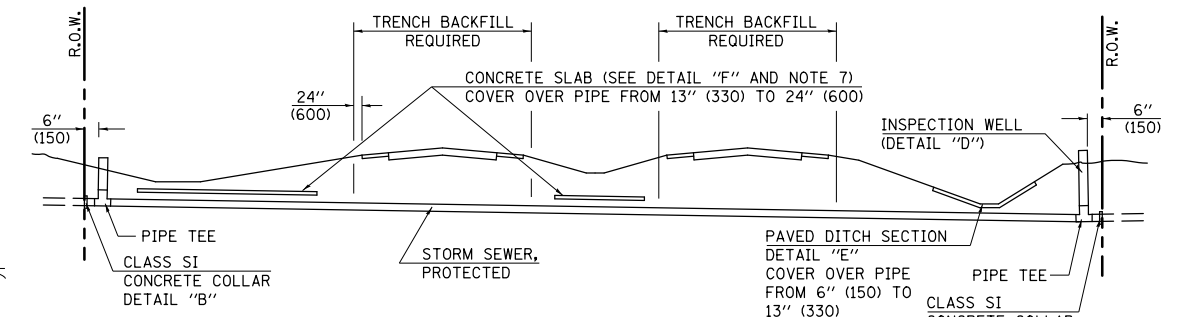
METHOD 'B' (2 LANE)

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



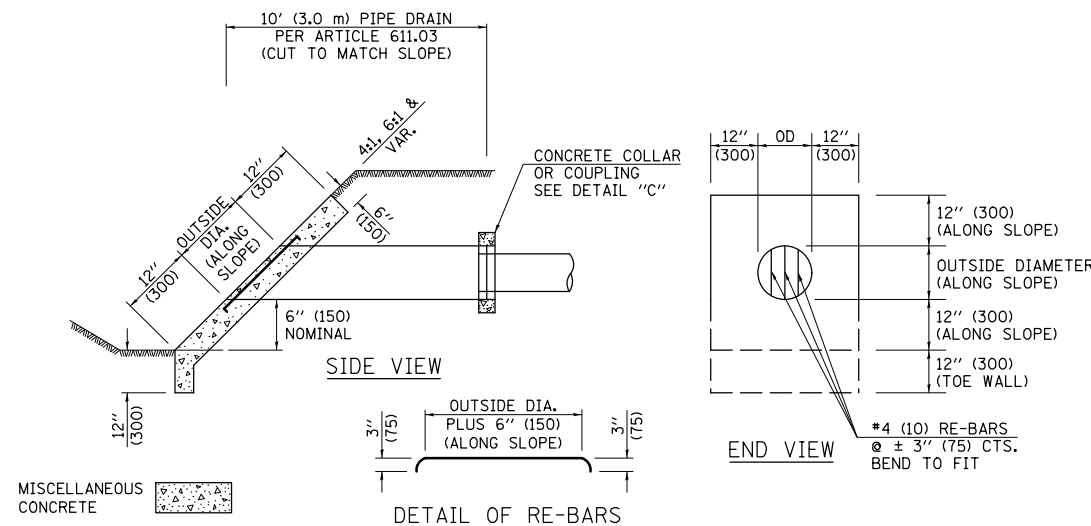
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

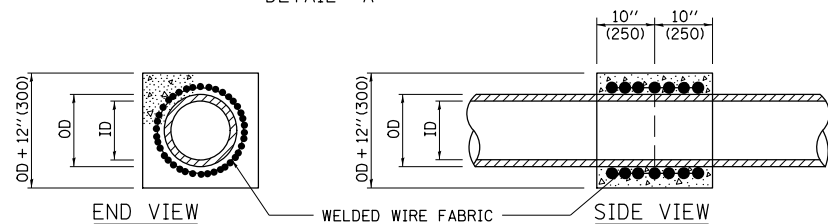


METHOD 'B' (4 LANE)

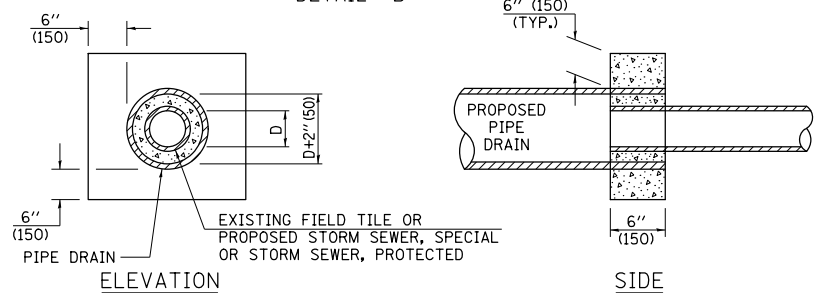
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



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



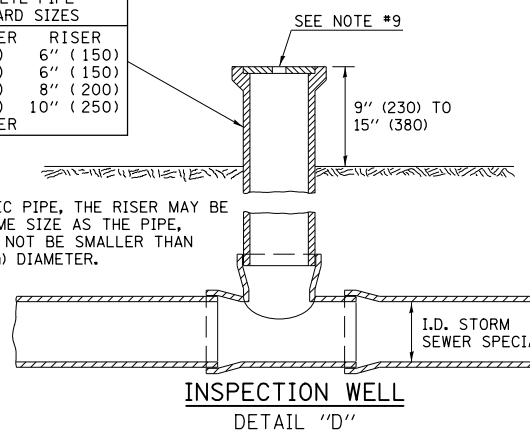
**CONCRETE COLLAR
DETAIL "B"**



**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	

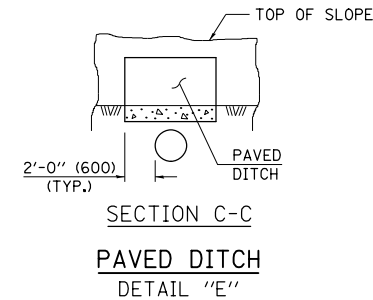
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



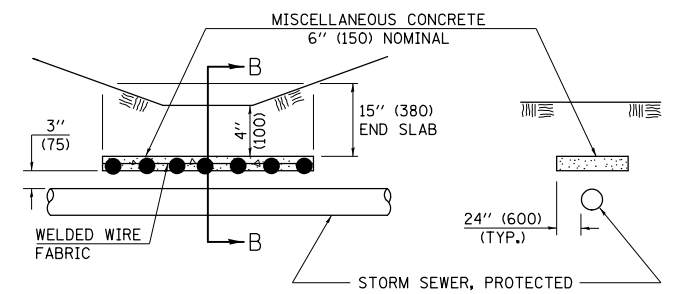
**INSPECTION WELL
DETAIL "D"**

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.



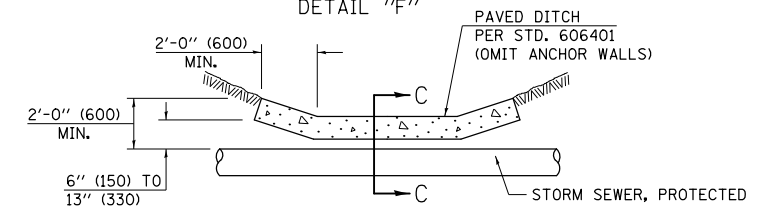
**PAVED DITCH
DETAIL "E"**



SLAB ELEVATION

**CONCRETE SLAB
DETAIL "F"**

SECTION B-B



PAVED DITCH ELEVATION

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

DISTRICT 5 DETAIL NO. 61101011A

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 11/06
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PLOT SCALE = 40.0000' / in.		DATE -	REVISED -
PLOT DATE = 3/21/2018			

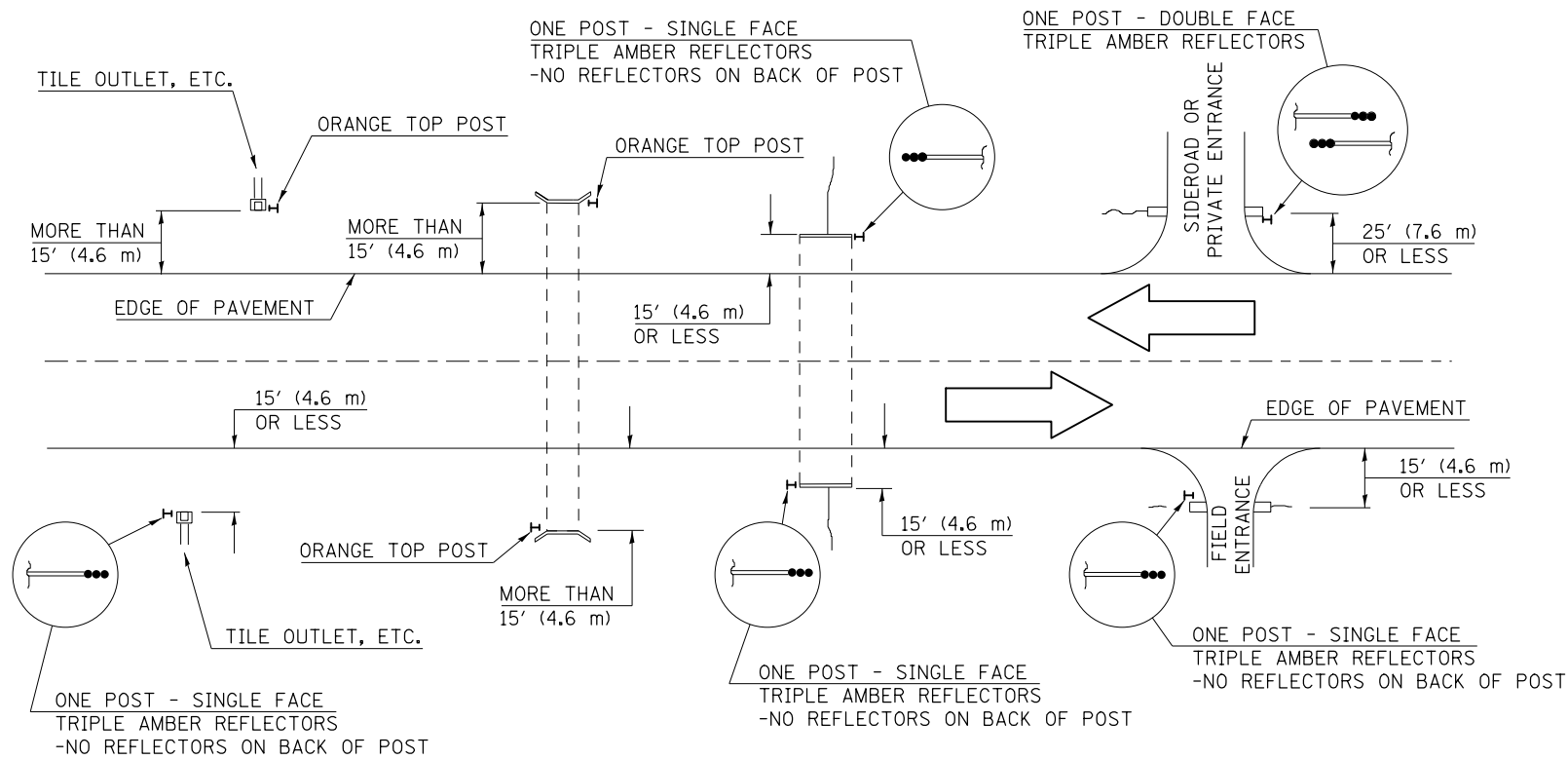
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	66
CONTRACT NO. 70620				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

IDENTIFICATION OF ROADSIDE HAZARDS FOR TWO-LANE ROADWAYS



BILL OF MATERIALS

DELINEATOR TYPE	SINGLE FACE	DOUBLE FACE	NO REFLECTOR	TOTAL DELINEATORS
SINGLE CRYSTAL		N/A	N/A	
DOUBLE CRYSTAL			N/A	
SINGLE AMBER			N/A	
DOUBLE AMBER		N/A	N/A	
TRIPLE AMBER	4		N/A	4
ORANGE TOP	N/A	N/A	N/A	
			TOTAL	4

NOTES

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

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

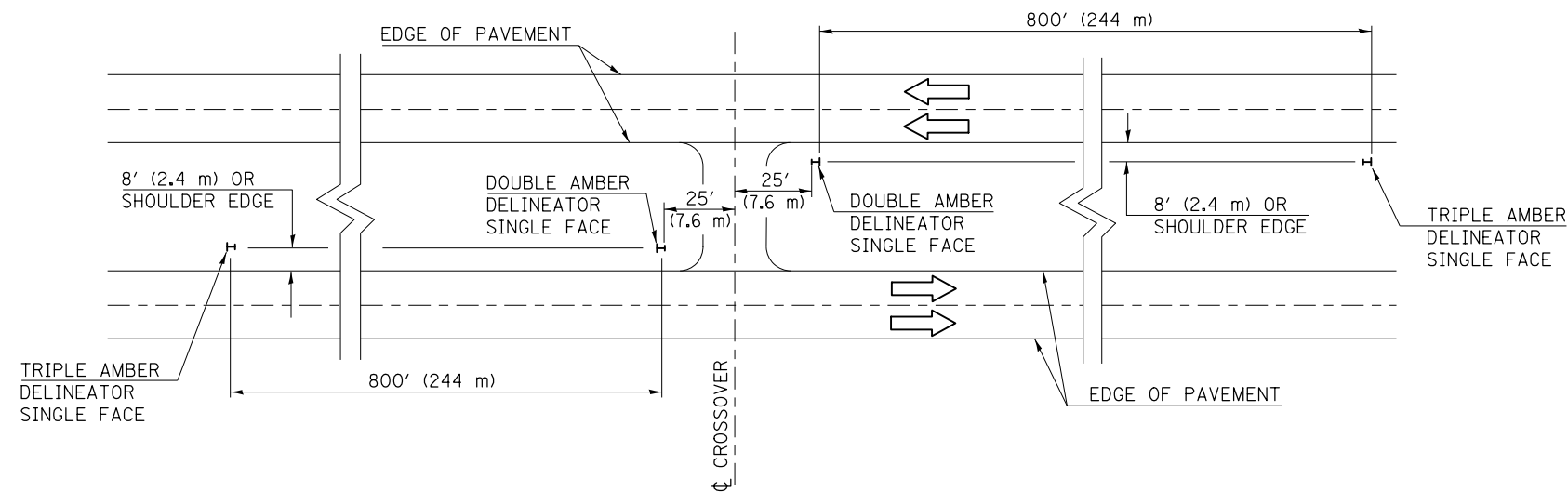
EACH POST SHALL BE CONSIDERED AS ONE DELINEATOR FOR PAYMENT, REGARDLESS OF THE NUMBER OF DELINEATORS ATTACHED TO IT.

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

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

FOR OTHER DELINEATOR APPLICATIONS, REFER TO HIGHWAY STANDARD 635001.

MEDIAN DELINEATORS AT CROSSOVER
(FOR INTERSTATES, EXPRESSWAYS, DUAL HIGHWAYS)



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

DISTRICT 5 DETAIL NO. 63500105

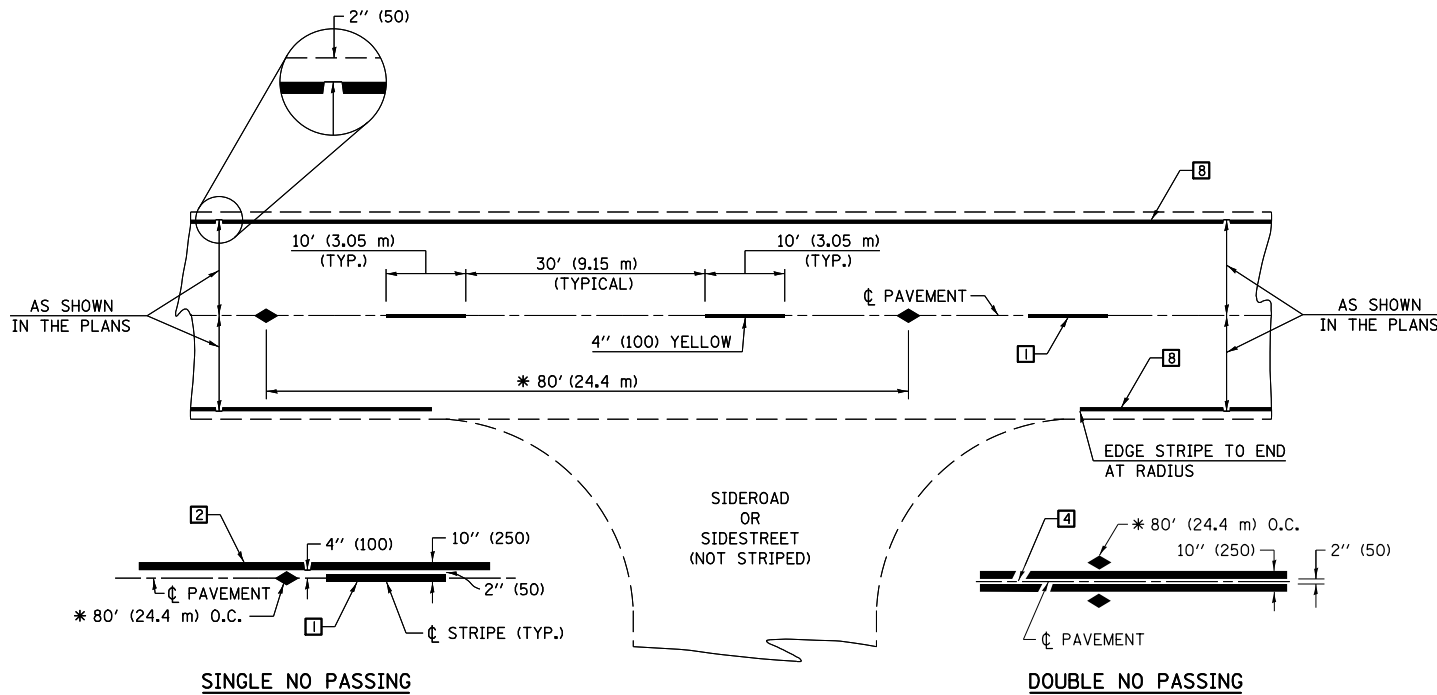
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 12/06
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	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
	PLOT DATE = 3/21/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATORS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	67
CONTRACT NO. 70620				
FED. ROAD DIST. NO. 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.

TWO LANE/TWO WAY

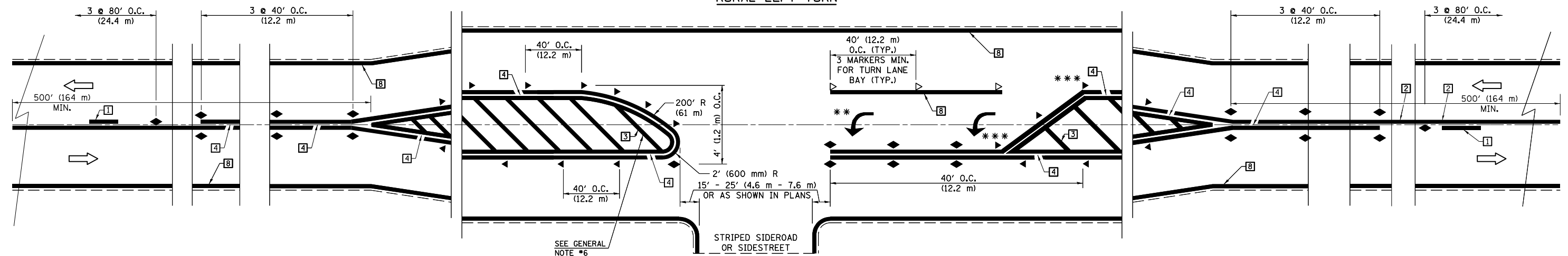
TYPICAL PAVEMENT MARKING LEGEND

- 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

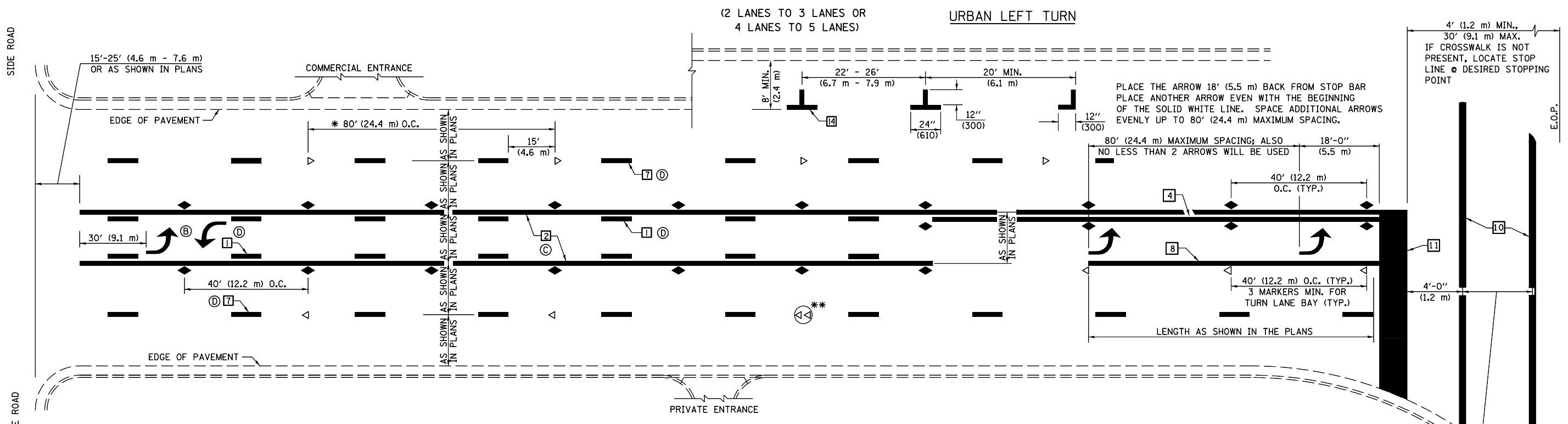
RURAL LEFT TURN



*** 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.

DISTRICT 5 DETAIL NO. 7800AAA

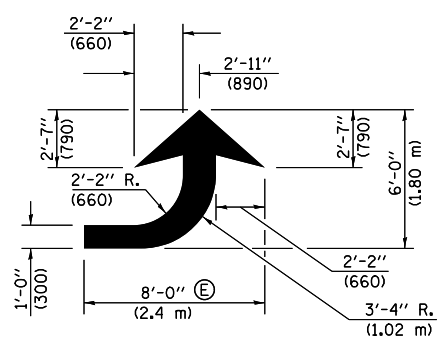


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

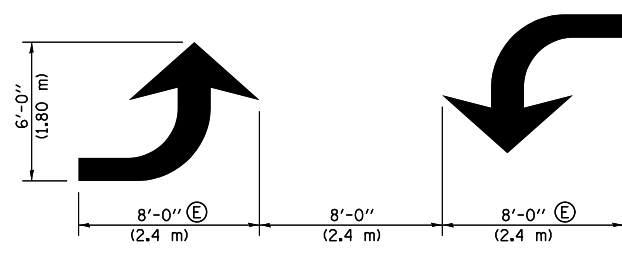
GENERAL NOTES:

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



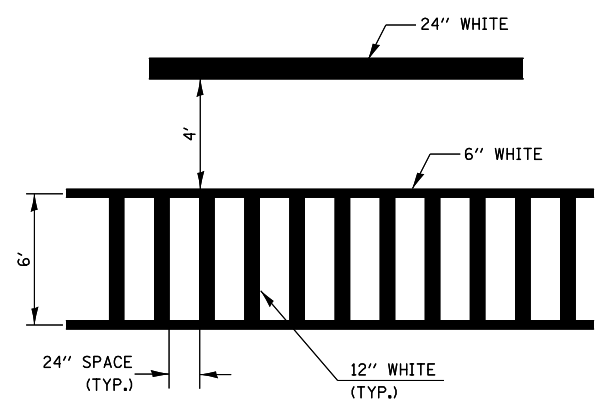
LEFT ARROW

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

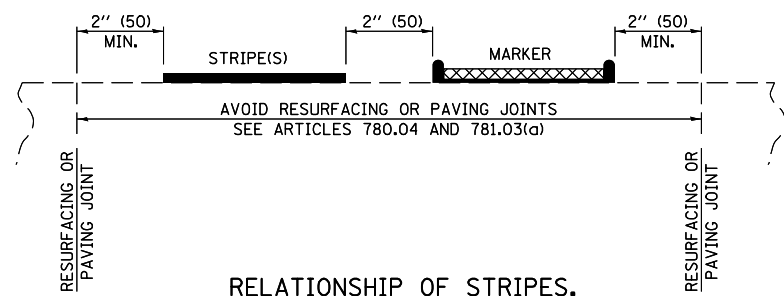


TYPICAL DOUBLE TURN ARROWS (WHITE)

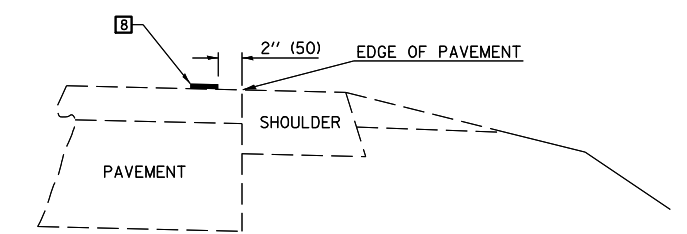
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



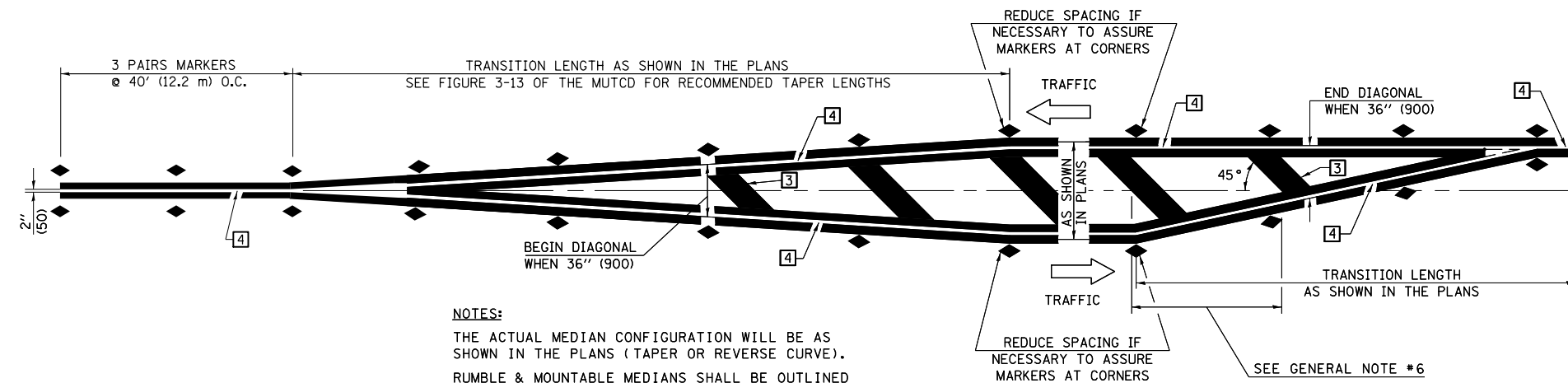
RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04

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

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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\05796\Drawings\Design\0570620-shr-CADD Design\0570620-shr-CADD Design.dwg	DESIGNED - 09/2009 - KJT	CHECKED -	REVISED - 04/14 - JLA			719	13CR	CHAMPAIGN	109	69
PLOT SCALE = 40.0000' / in.	CHECKED -	DATE -	REVISED -			CONTRACT NO. 70620				
PLOT DATE = 3/21/2018	DATE -	REVISED -	SCALE:			SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

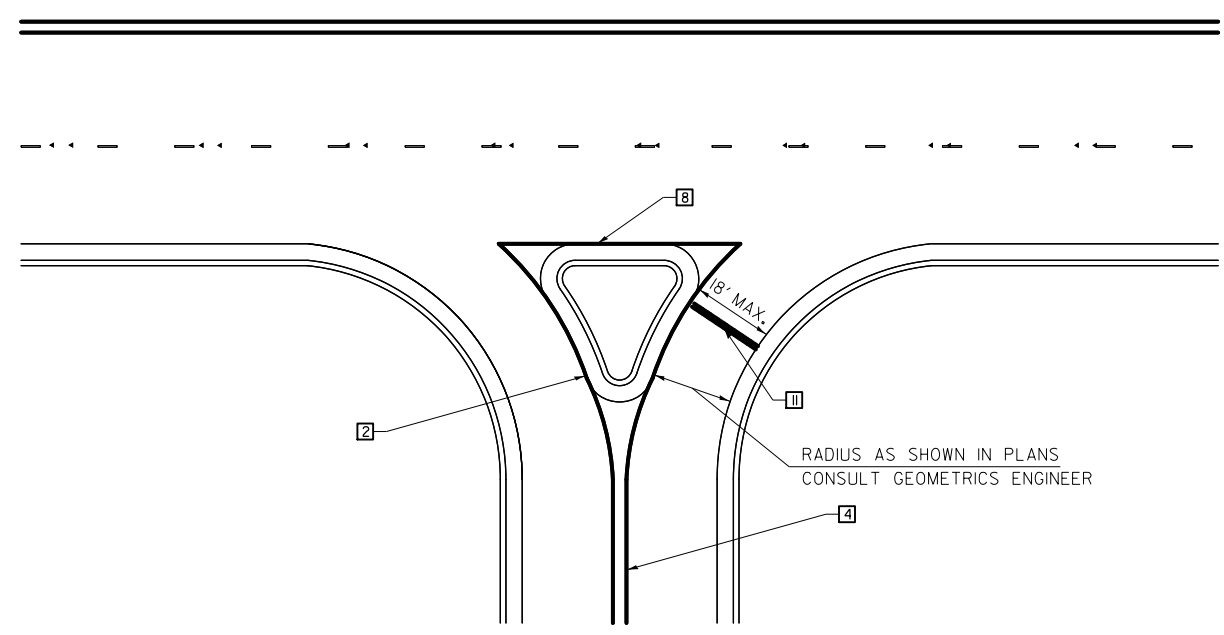


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

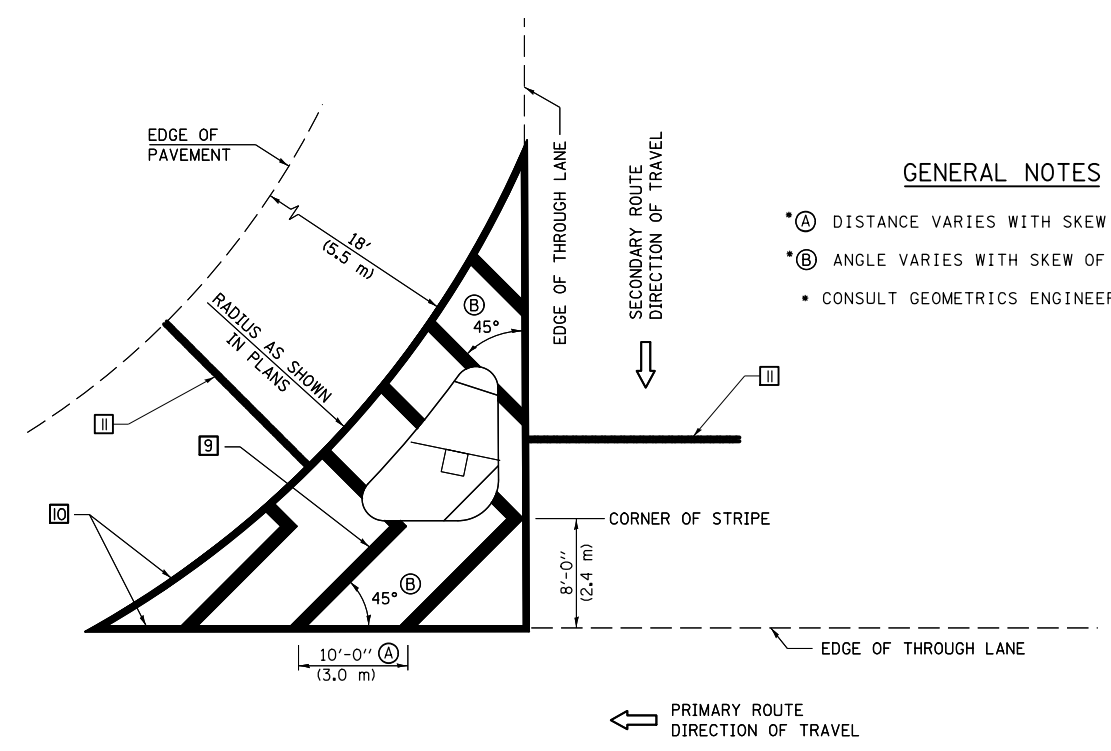
TYPICAL MEDIAN TRANSITIONS

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.

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISED - 11/06
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 3/21/2018	DATE -	REVISED -

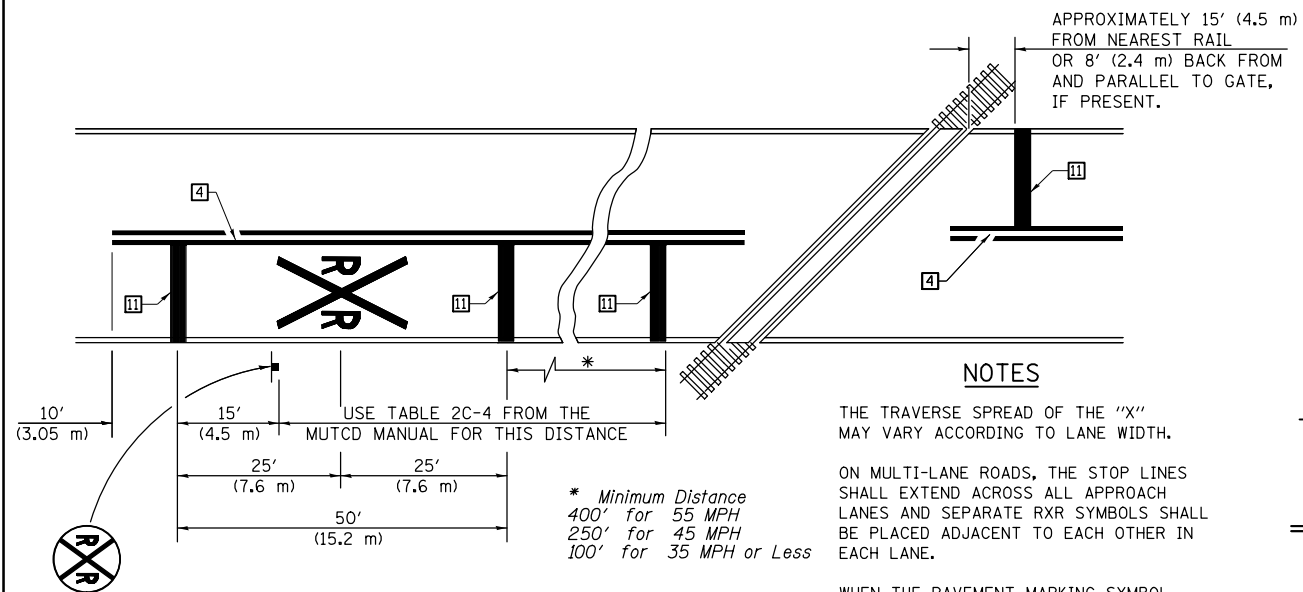
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	70
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70620	



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

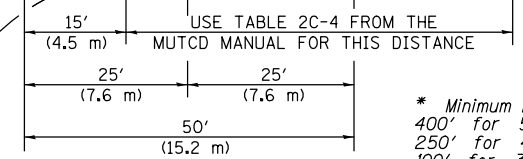
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

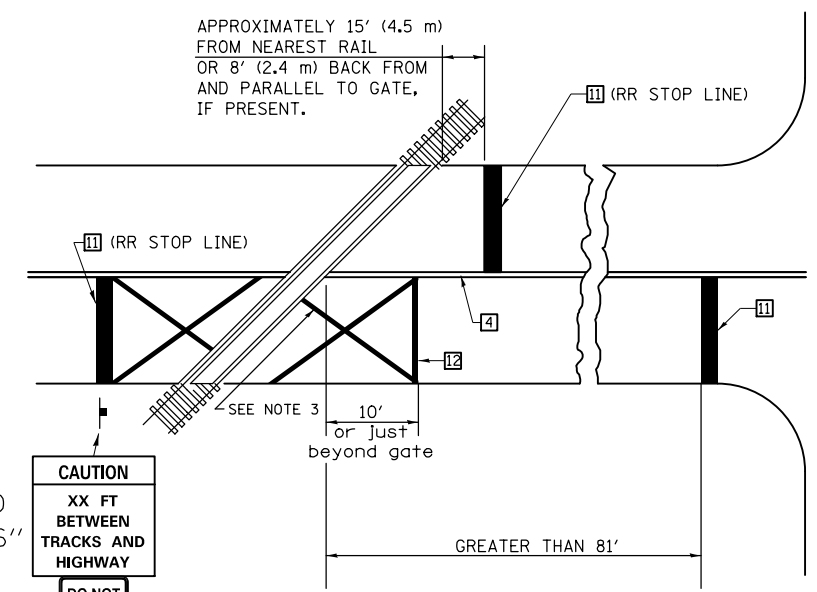
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

* Minimum Distance
 400' for 55 MPH
 250' for 45 MPH
 100' for 35 MPH or Less



RAILROAD CROSSING WITH INTERCONNECT ONLY



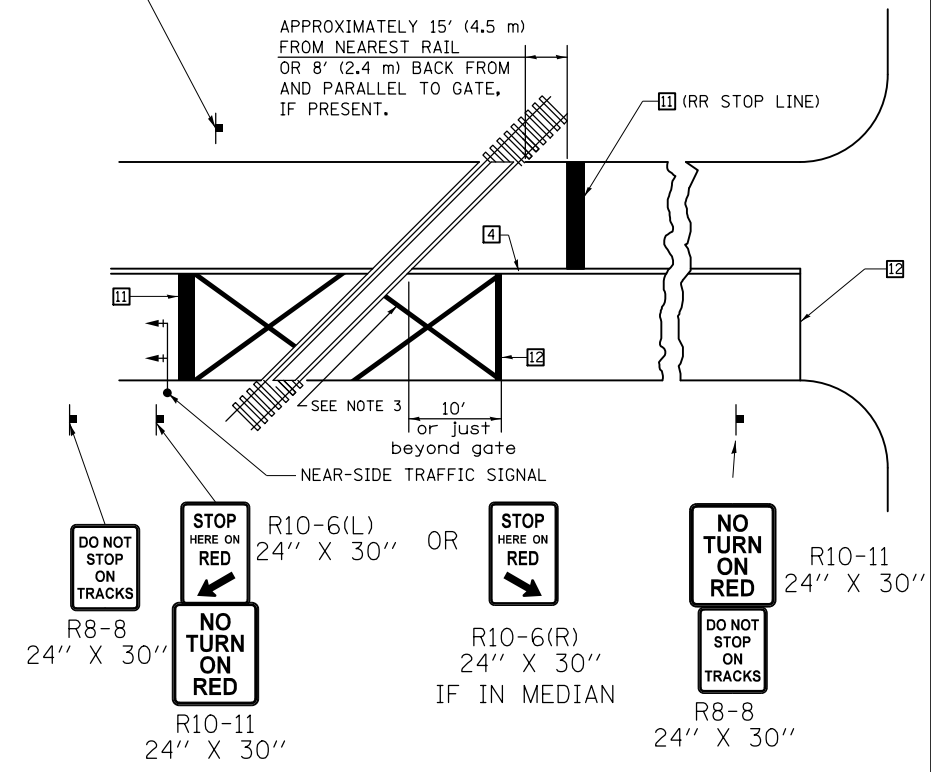
W10-I100
 30" X 36"

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"

STOP
 HERE ON
 RED

R10-6(L)
 24" X 30"

NO
 TURN
 ON
 RED

R10-11
 24" X 30"

STOP
 HERE ON
 RED

R10-6(R)
 24" X 30"

IF IN MEDIAN

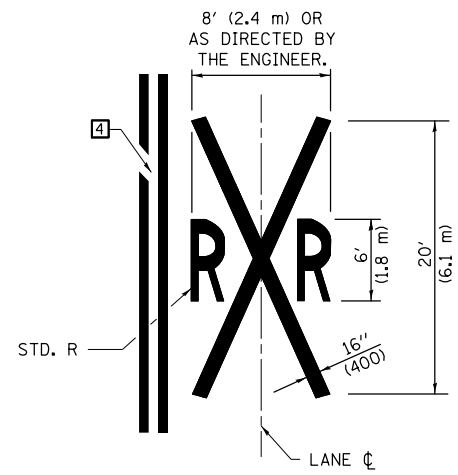
NO
 TURN
 ON
 RED

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.

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)

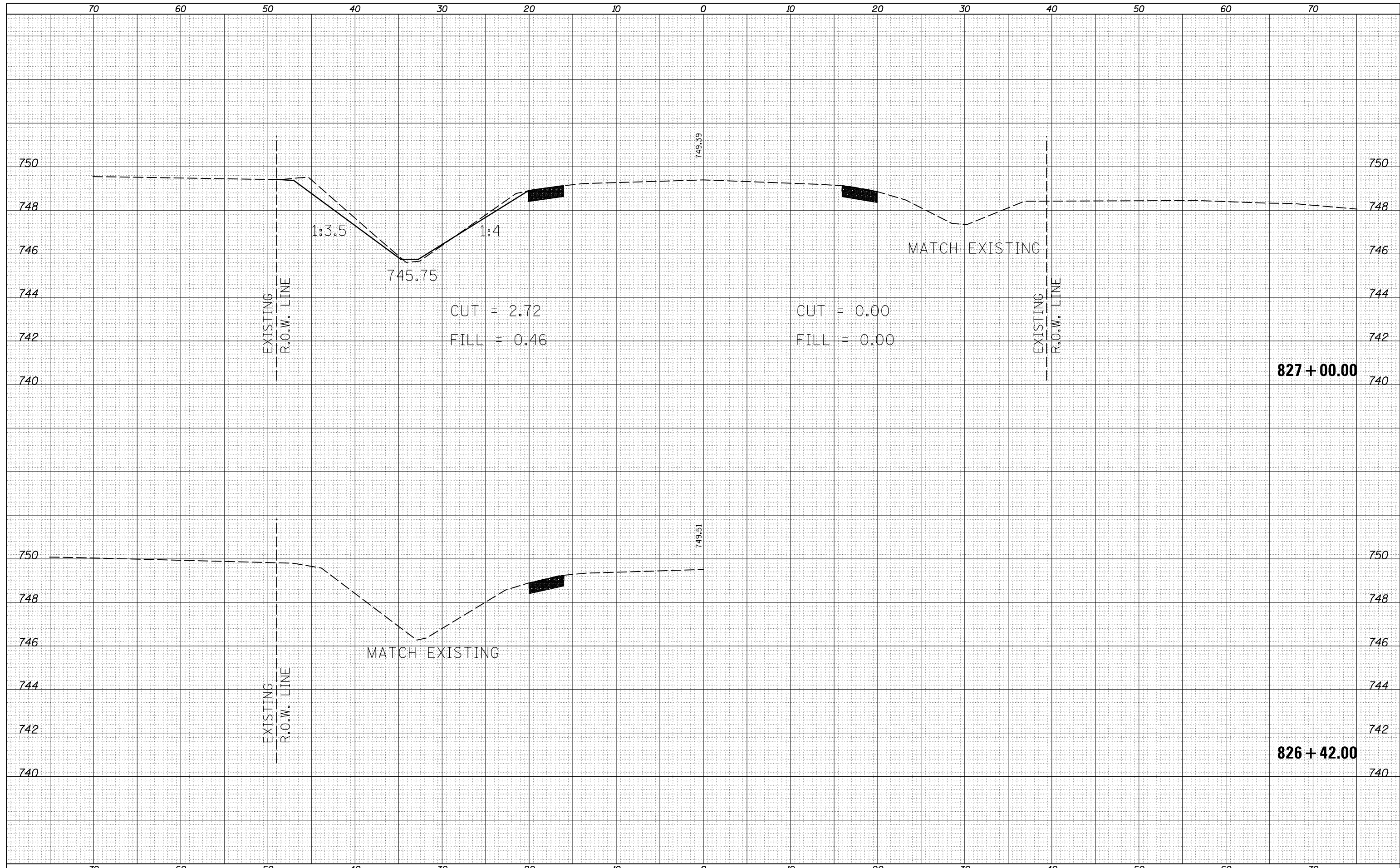
SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	71
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70620	

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

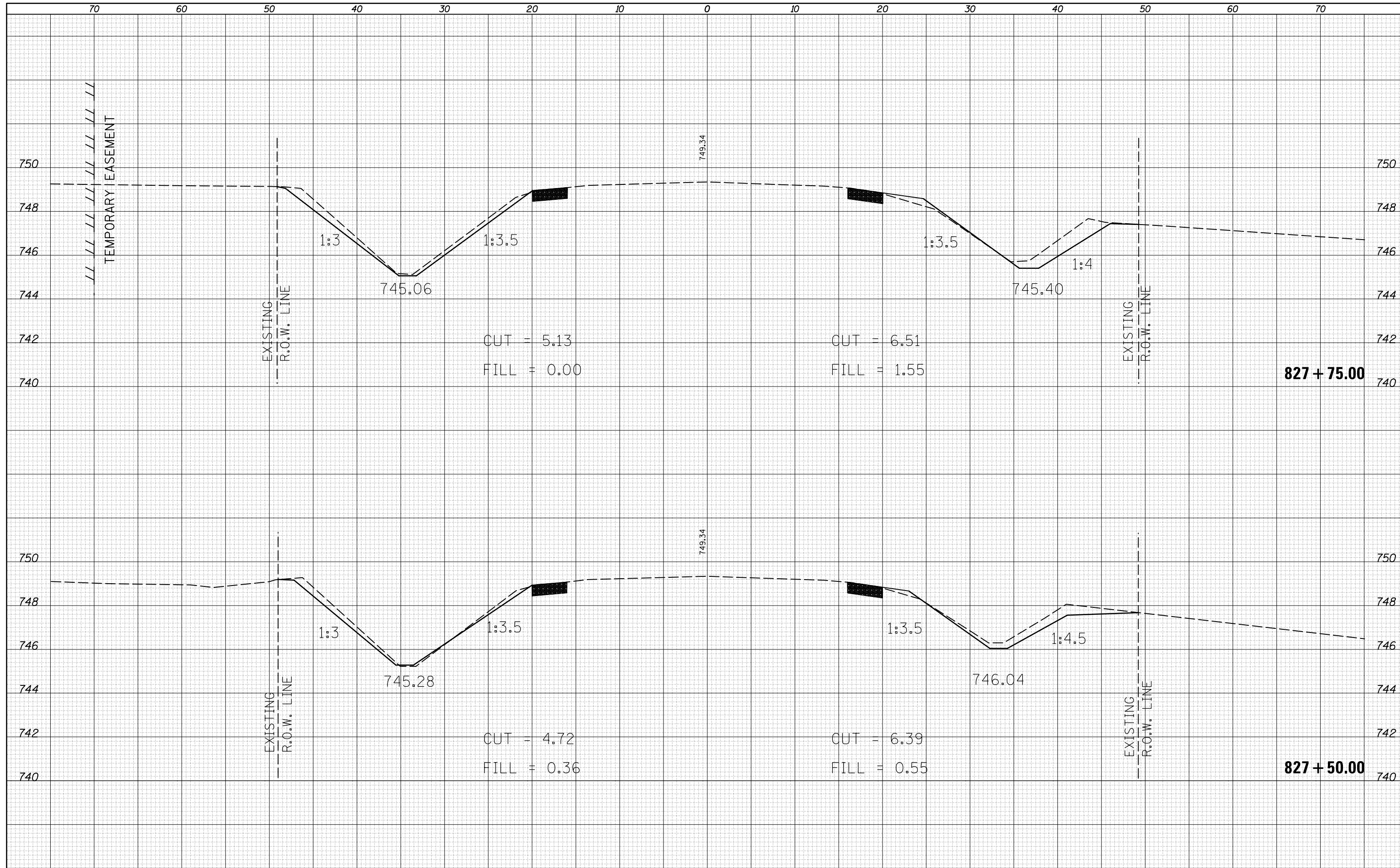
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO. 1 / PROPOSED S.N. 010-8149			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -					719	13CR	CHAMPAIGN	109	72
	PLLOT DATE = 3/21/2018	DATE -	REVISIED -		SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.		CONTRACT NO. 70620					
ILLINOIS FED. AID PROJECT												

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME =
 USER NAME = BakerCR
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 3/21/2018

DESIGNED -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

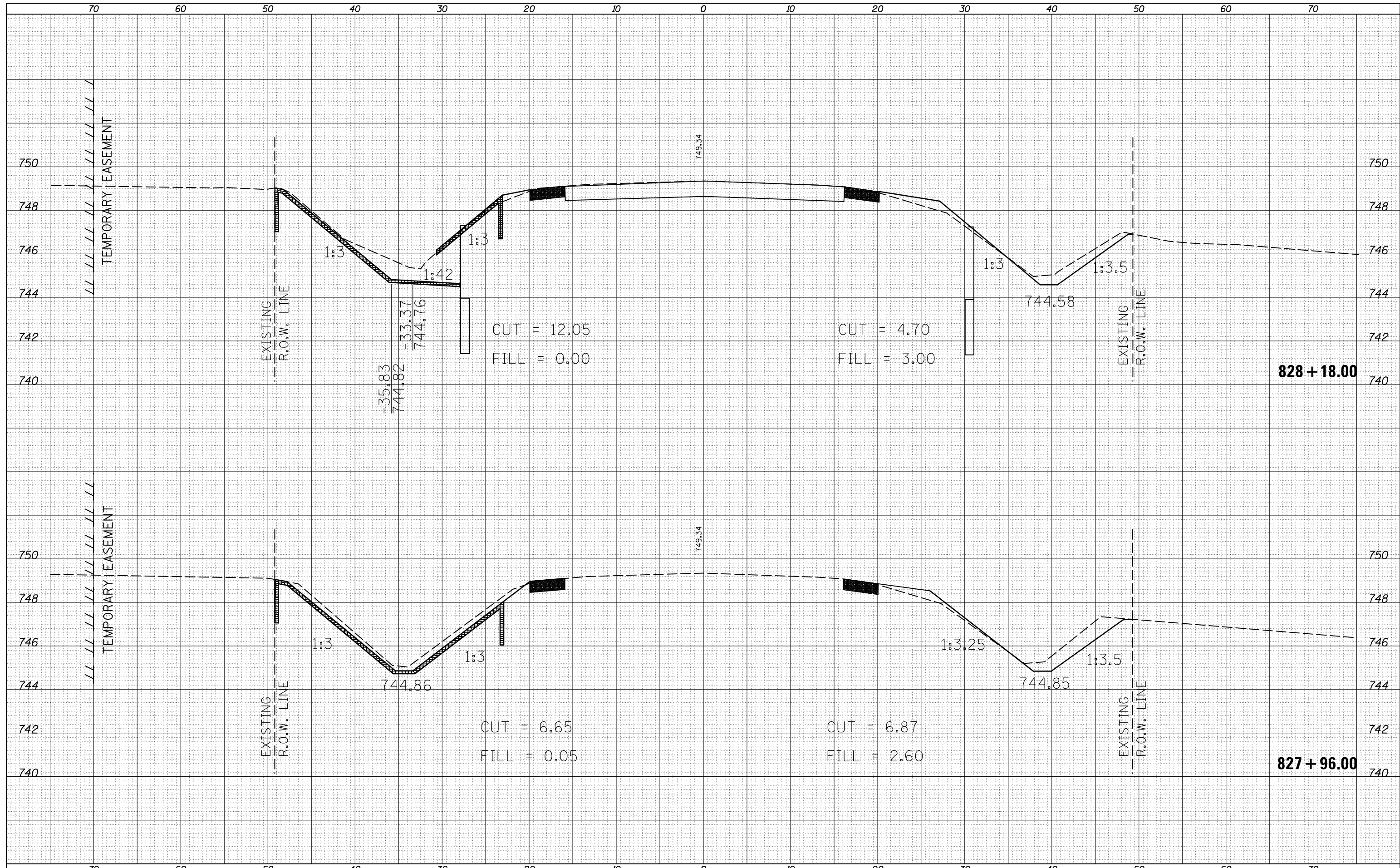
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 1 / PROPOSED S.N. 010-8149
 SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	73
			CONTRACT NO.	70620
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
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 3/21/2018

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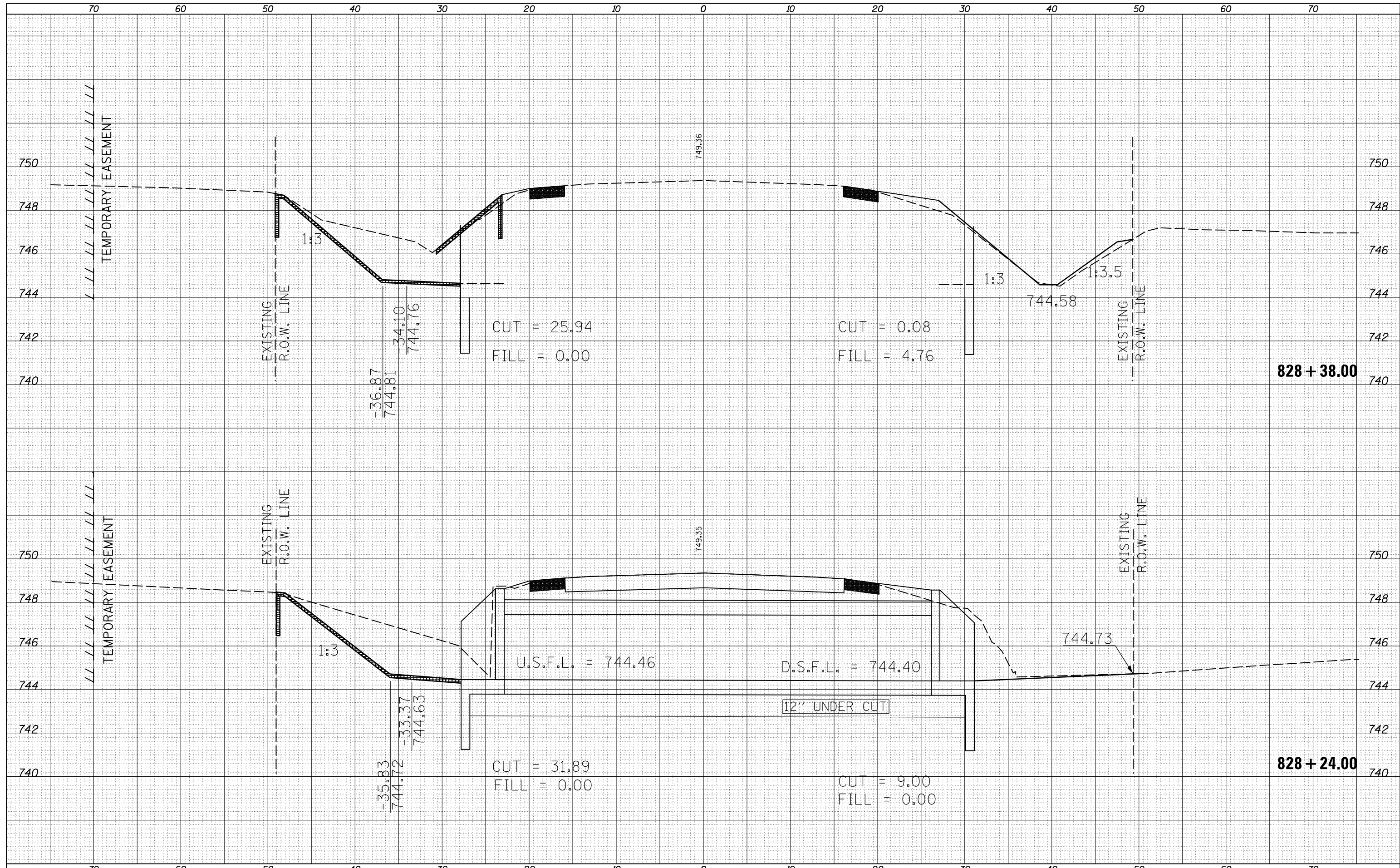
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 1 / PROPOSED S.N. 010-8149
 SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	74
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

DATE	
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FINISHED SURVEY	
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ORIGINAL SURVEY	
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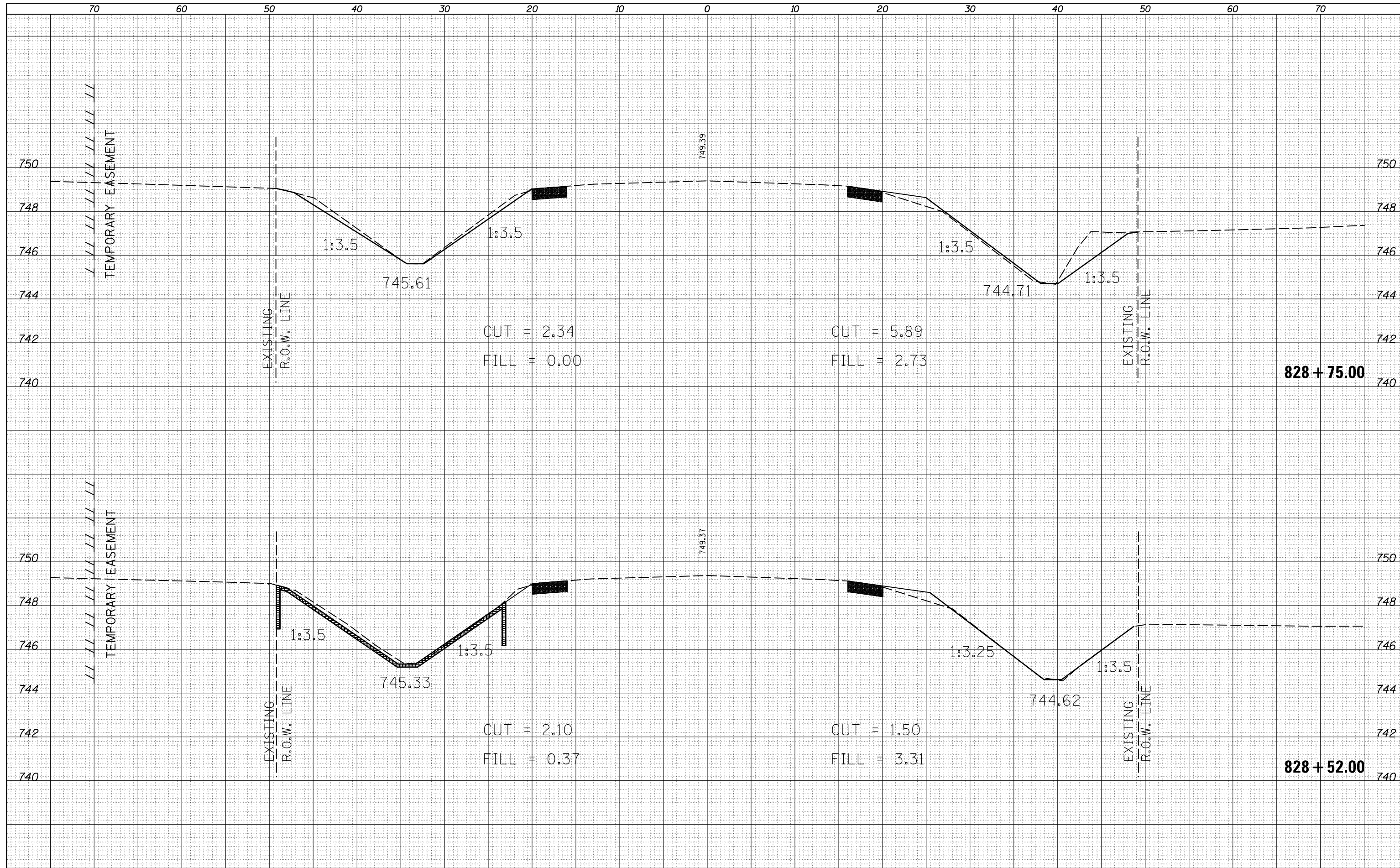
FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME =	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISOR -			719	13CR	CHAMPAIGN	109	75
	PLLOT DATE = 3/21/2018	DATE -	REVISOR -			CONTRACT NO. 70620				

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

ILLINOIS FED. AID PROJECT

DATE	
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FINISHED SURVEY	
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ORIGINAL SURVEY	
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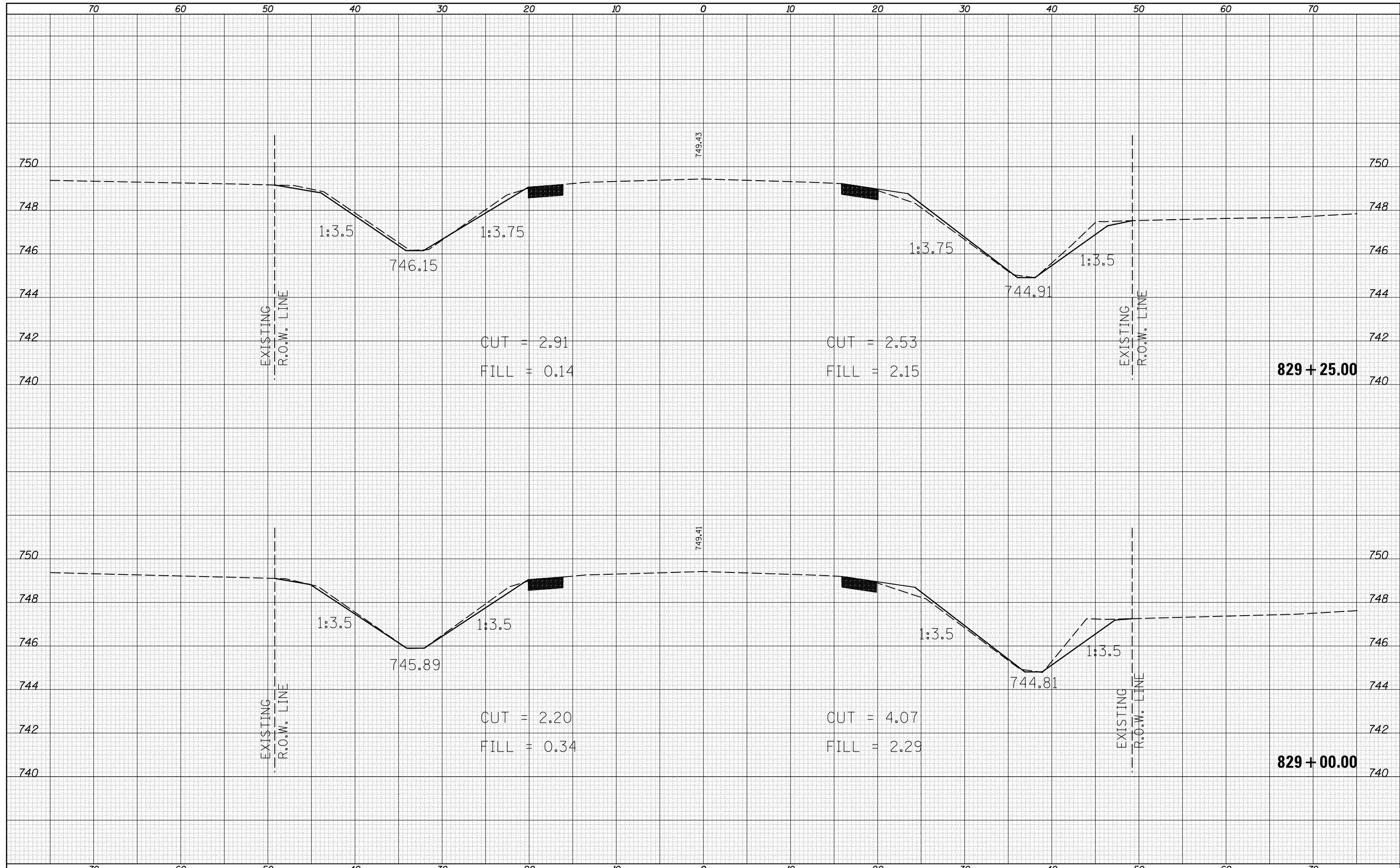


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISOR -	CROSS SECTIONS CULVERT NO. 1 / PROPOSED S.N. 010-8149	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME =	10DOT Offices\District 5\Projects\0570620\CADD\Drawings\0570620-sht-xssht-S.N.8079.dwg	CHECKED -	REVISOR -		719	13CR	CHAMPAIGN	109	76
	PLOT SCALE = 10.0000' / in.	DATE -	REVISOR -		CONTRACT NO. 70620				
	PLOT DATE = 3/21/2018			SCALE:	SHEET 5 OF 7 SHEETS STA. TO STA.				
ILLINOIS FED. AID PROJECT									

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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FINAL SURVEY	
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PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISOR -
PLLOT DATE = 3/21/2018	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

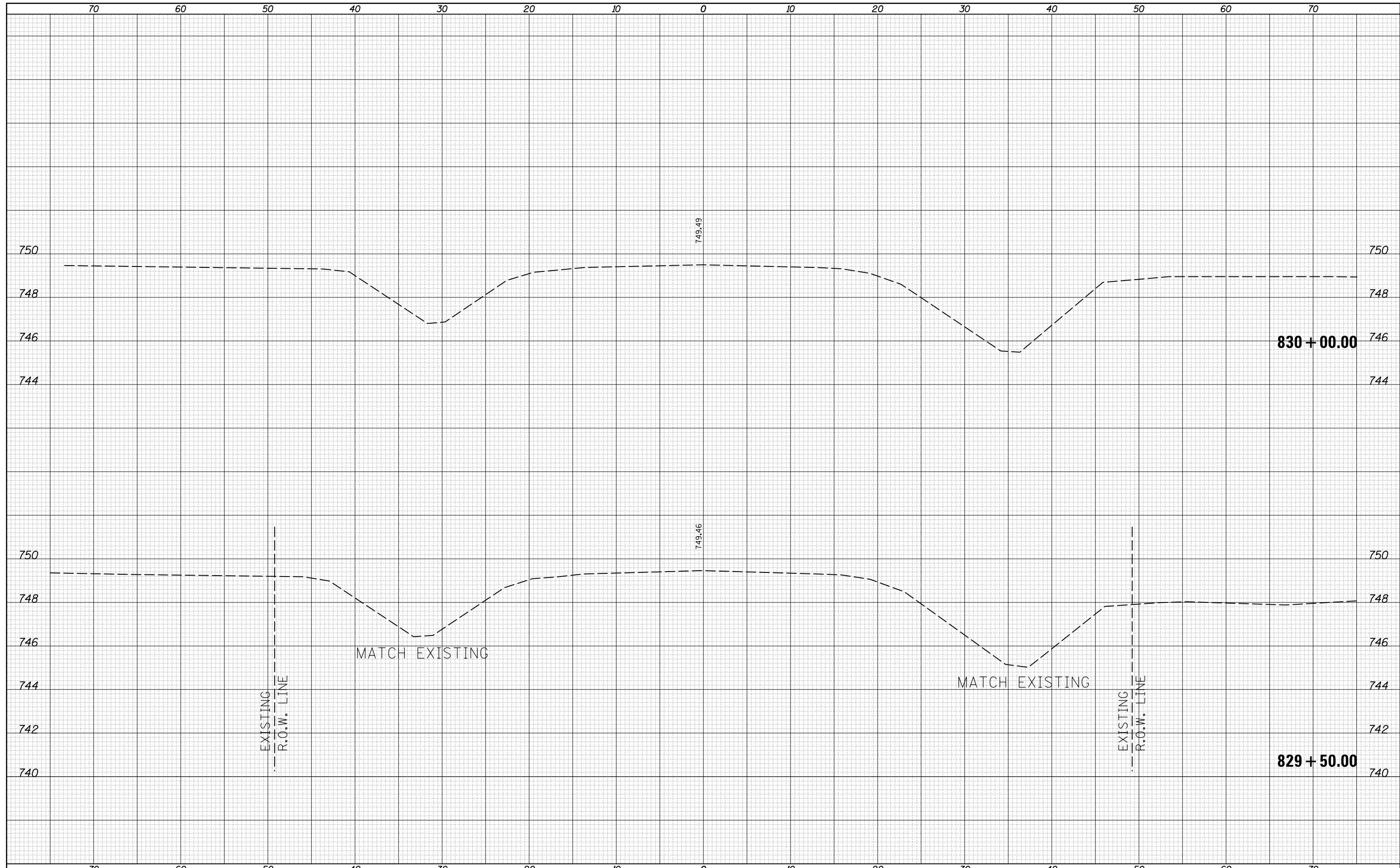
**CROSS SECTIONS
CULVERT NO. 1 / PROPOSED S.N. 010-8149**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	77
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
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PLOT SCALE = 10.0000' / in.	DATE -	REVISÉ -
PLOT DATE = 3/21/2018		

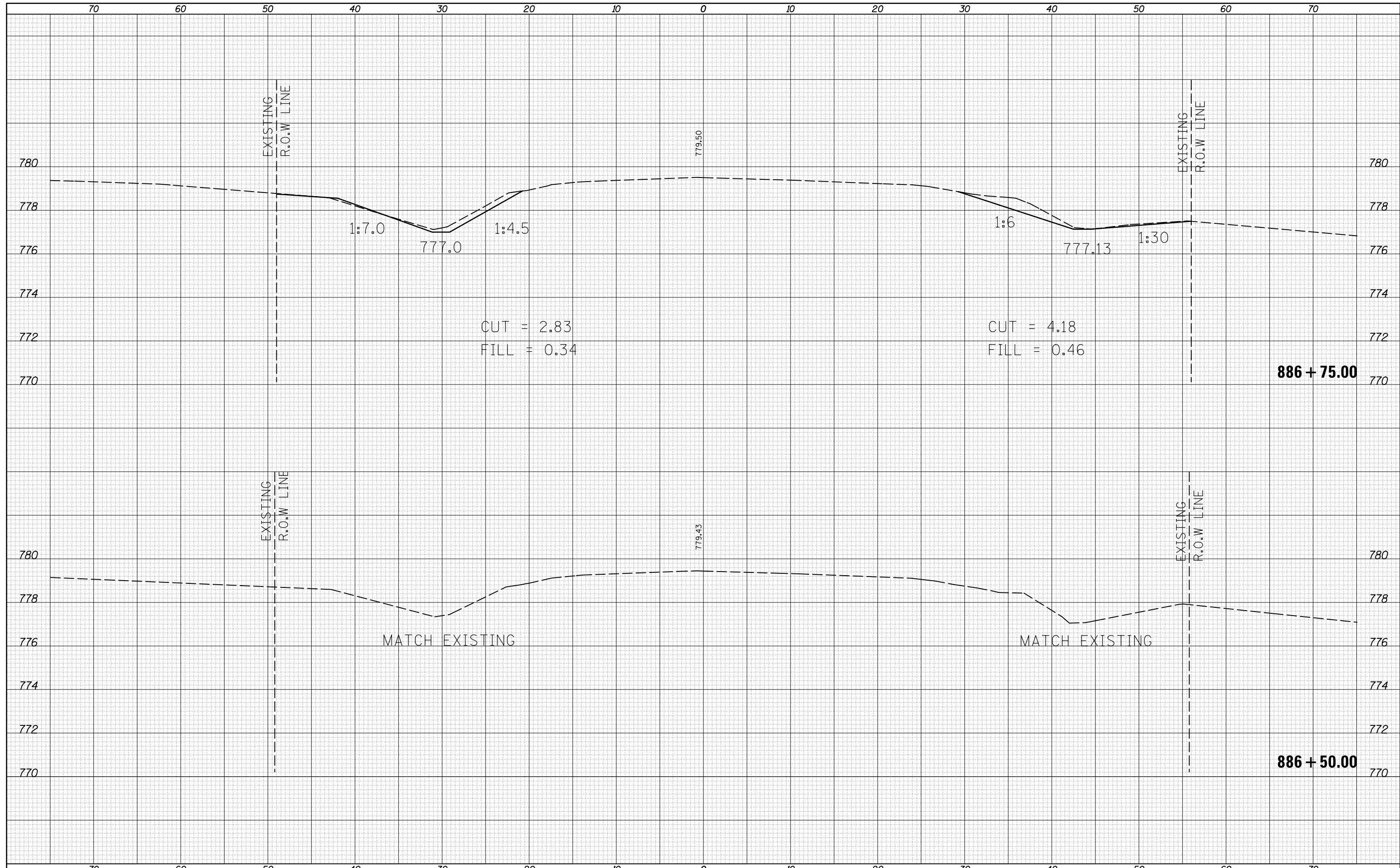
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 1 / PROPOSED S.N. 010-8149
 SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	78
			CONTRACT NO. 70620	
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

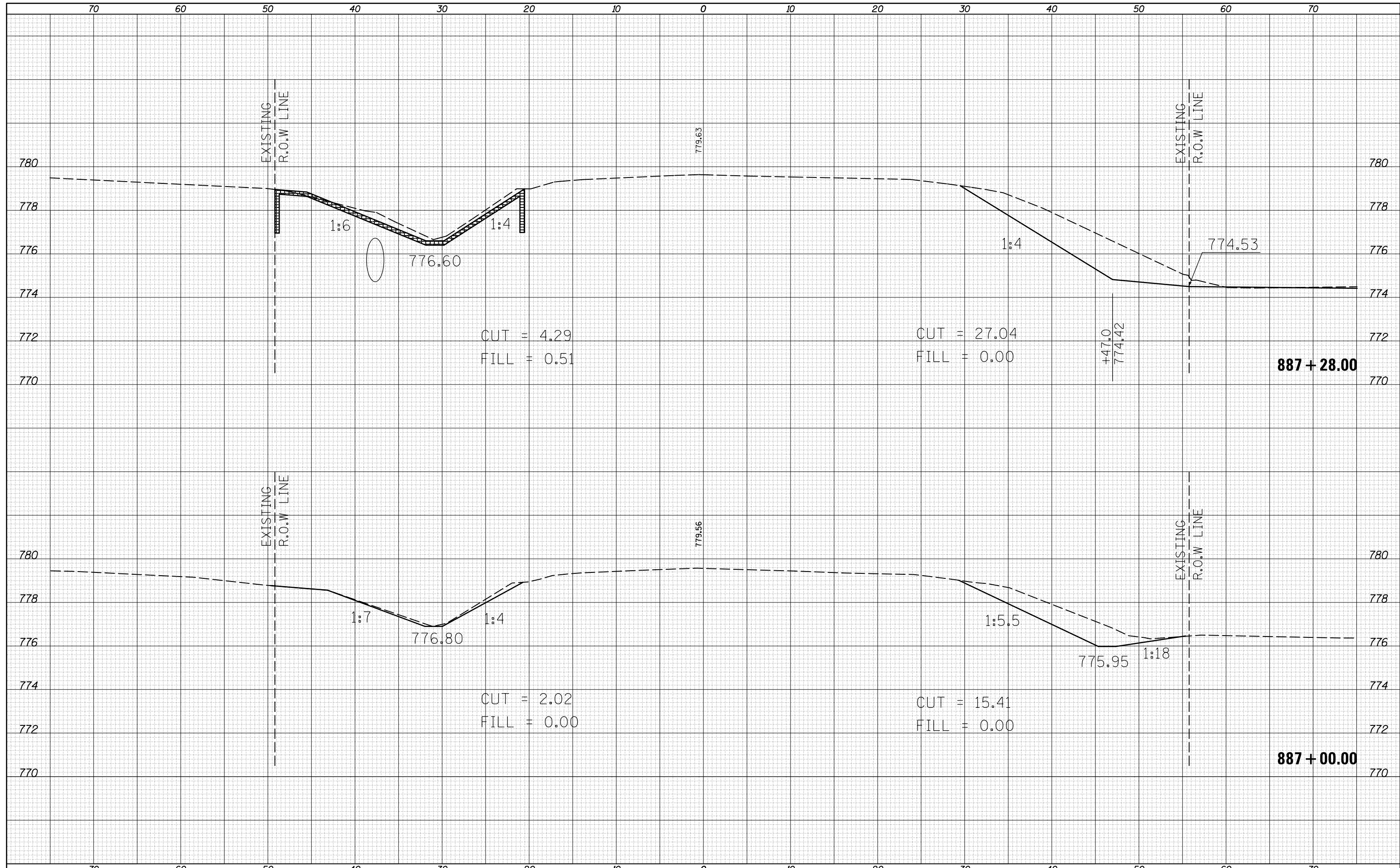


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					719	13CR	CHAMPAIGN	109	79
					CONTRACT NO. 70620				
					ILLINOIS FED. AID PROJECT				
SCALE:	SHEET 1 OF 7 SHEETS		STA.	TO STA.					

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

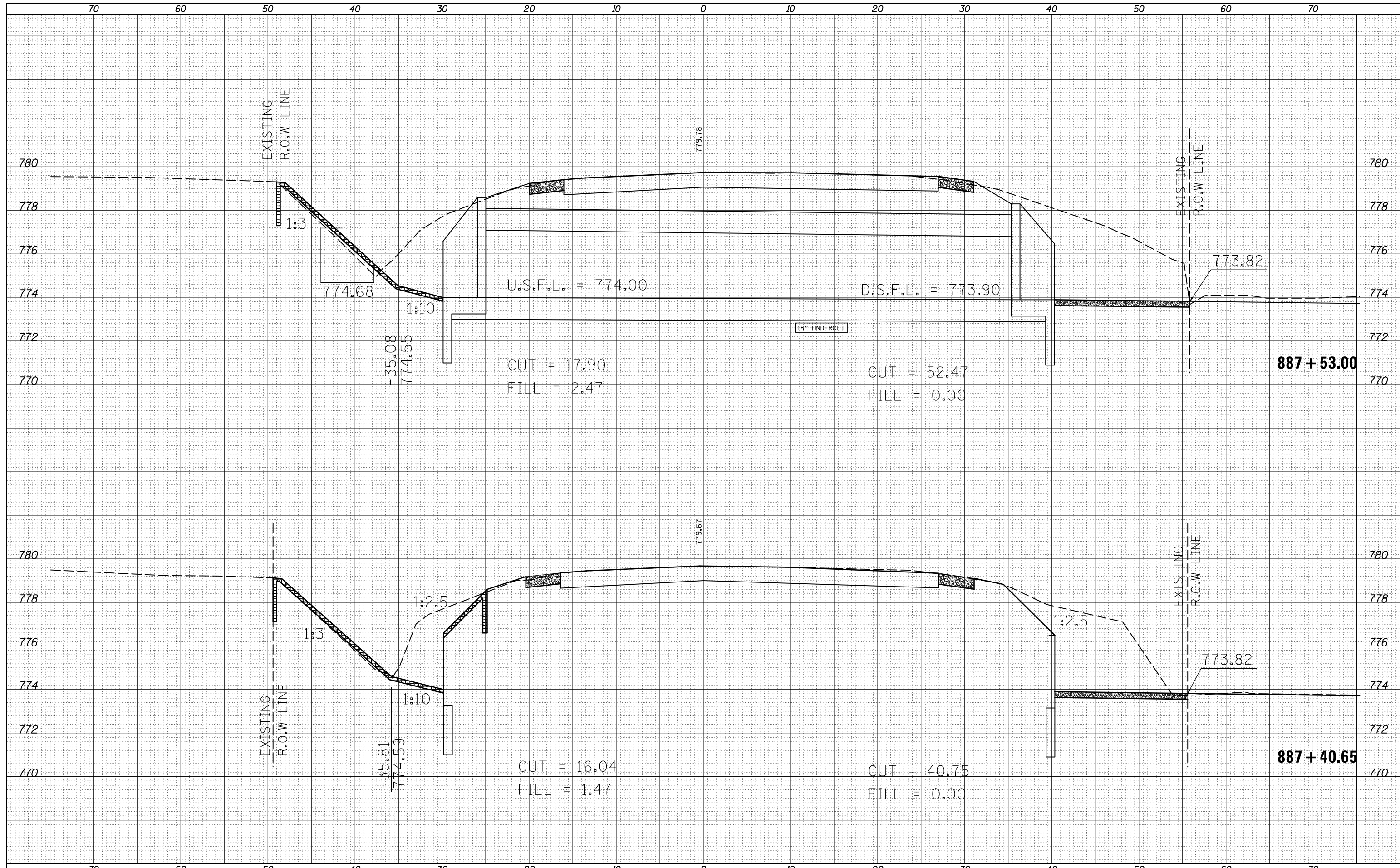
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ORIGINAL SURVEY	
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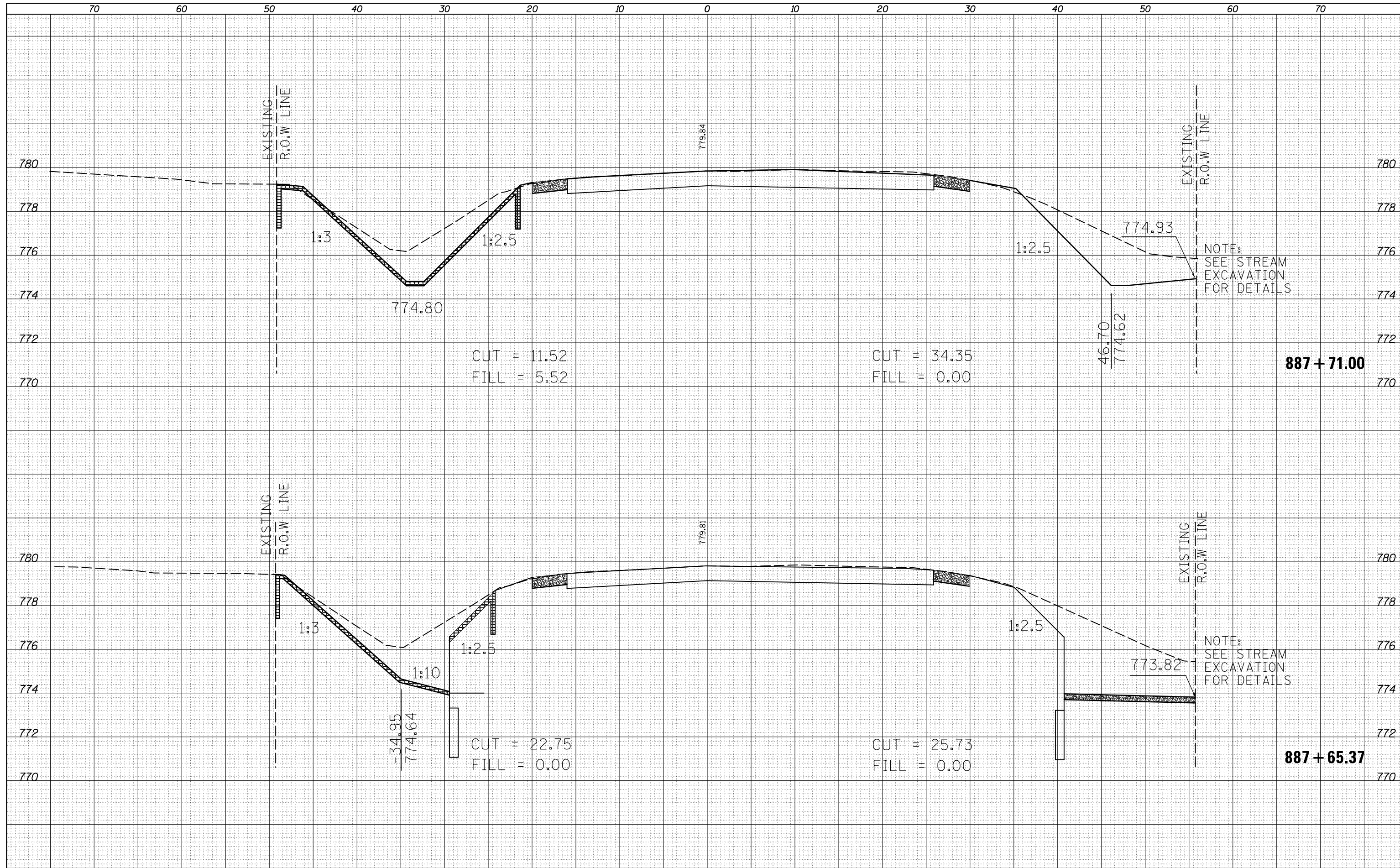
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO. 2 / PROPOSED S.N. 010-8150	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT	PROJECT	CHECKED -	REVISOR -			719	13CR	CHAMPAIGN	109	81
SCALE = 10.0000" / in.	DATE = 3/21/2018	DATE -	REVISOR -			CONTRACT NO. 70620				
SCALE:	SHEET 3 OF 7 SHEETS		STA. TO STA.	ILLINOIS FED. AID PROJECT						

DATE	
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/21/2018	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

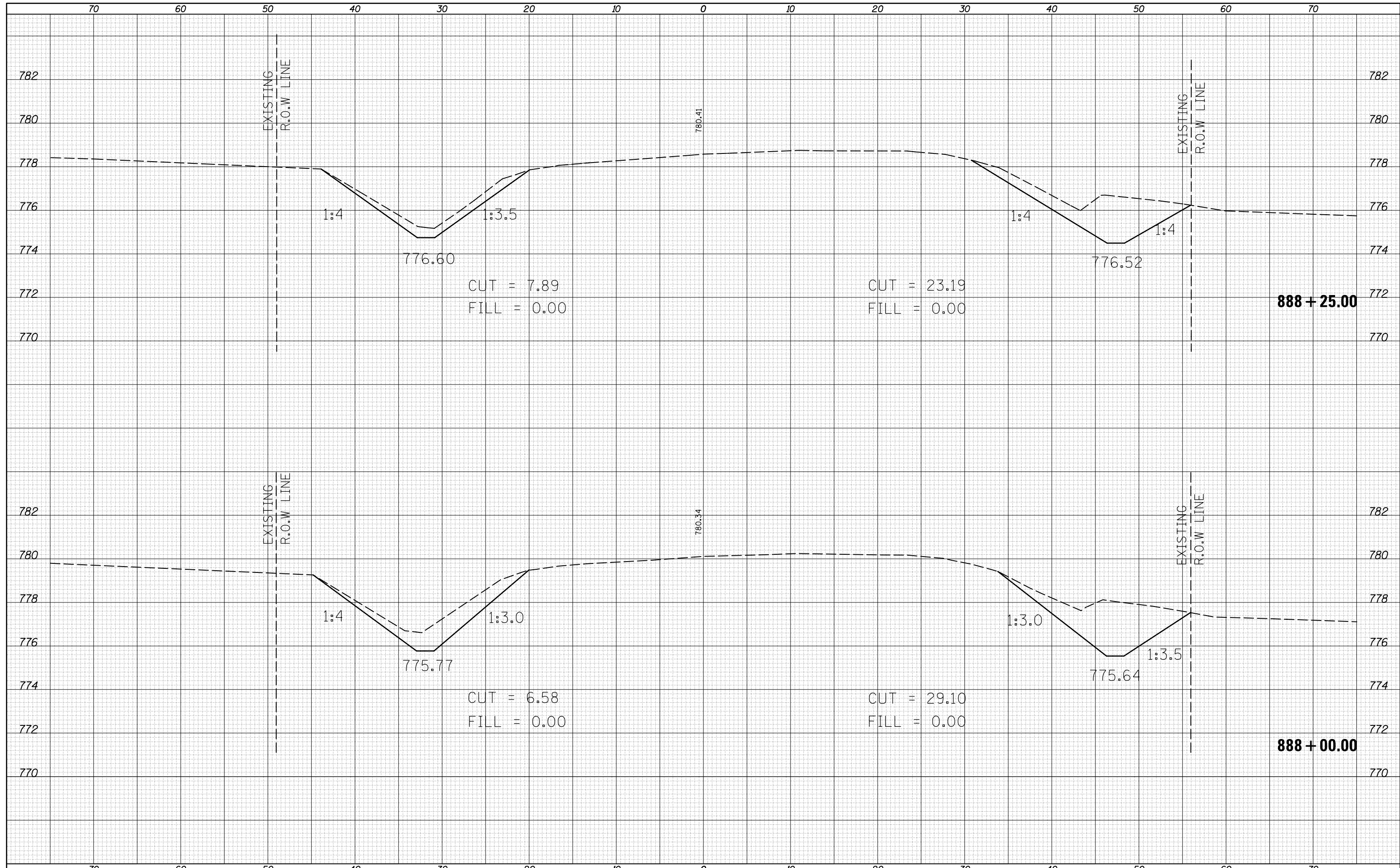
**CROSS SECTIONS
CULVERT NO. 2 / PROPOSED S.N. 010-8150**

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

F.A.P. RTE. 719	SECTION 13CR	COUNTY CHAMPAIGN	TOTAL SHEETS 109	SHEET NO. 82
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

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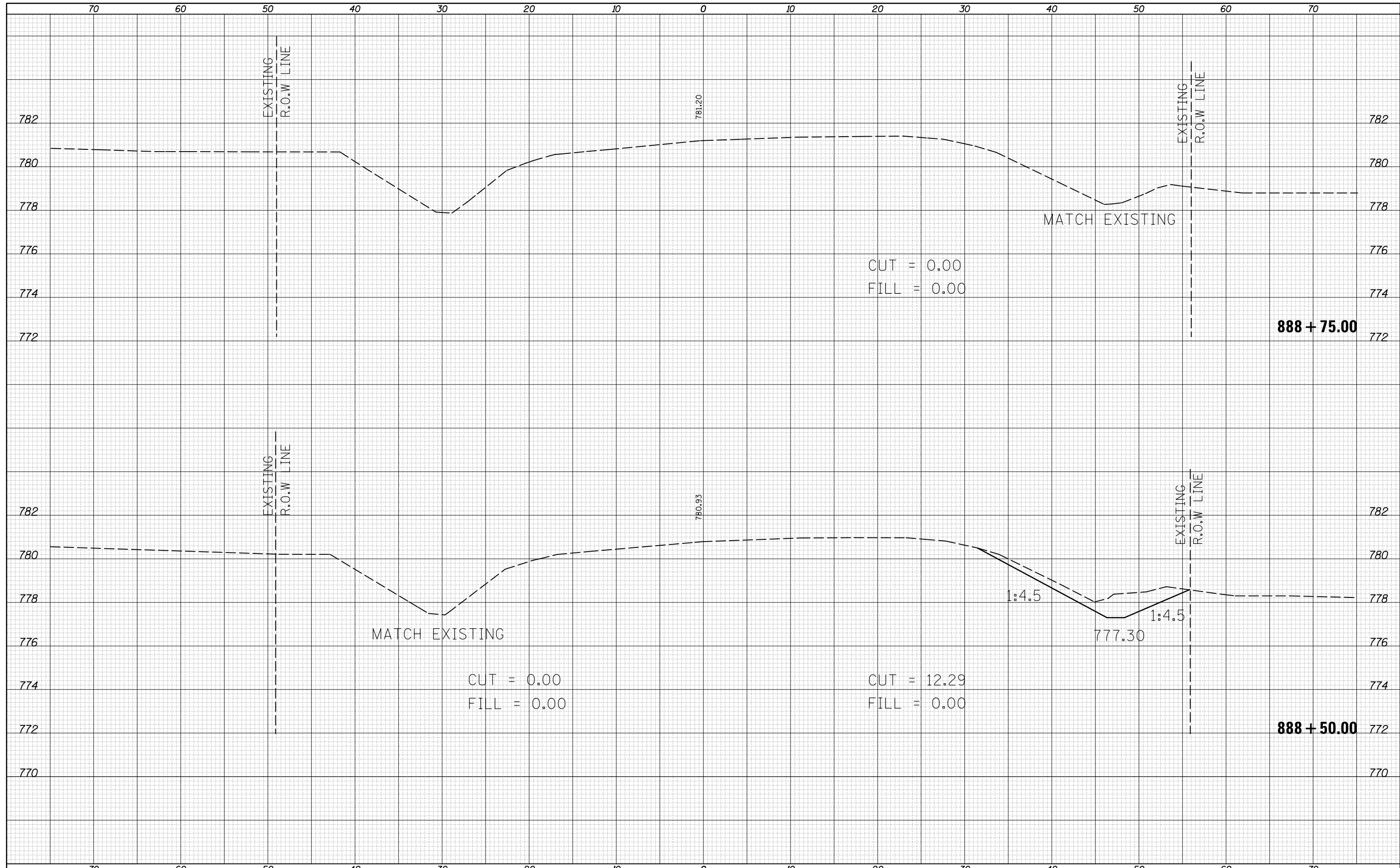
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO. 2 / PROPOSED S.N. 010-8150			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODELNAME\$	10DOT Offices\District 5\Projects\0570620\CADD\DRAWING\0570620-sht-xssht-S.N.8080.dwg	CHECKED -	REVISIED -					719	13CR	CHAMPAIGN	109	83
	PLOT SCALE = 10.0000' / in.	DATE -	REVISIED -		CONTRACT NO. 70620							
	PLOT DATE = 3/21/2018				ILLINOIS FED. AID PROJECT							

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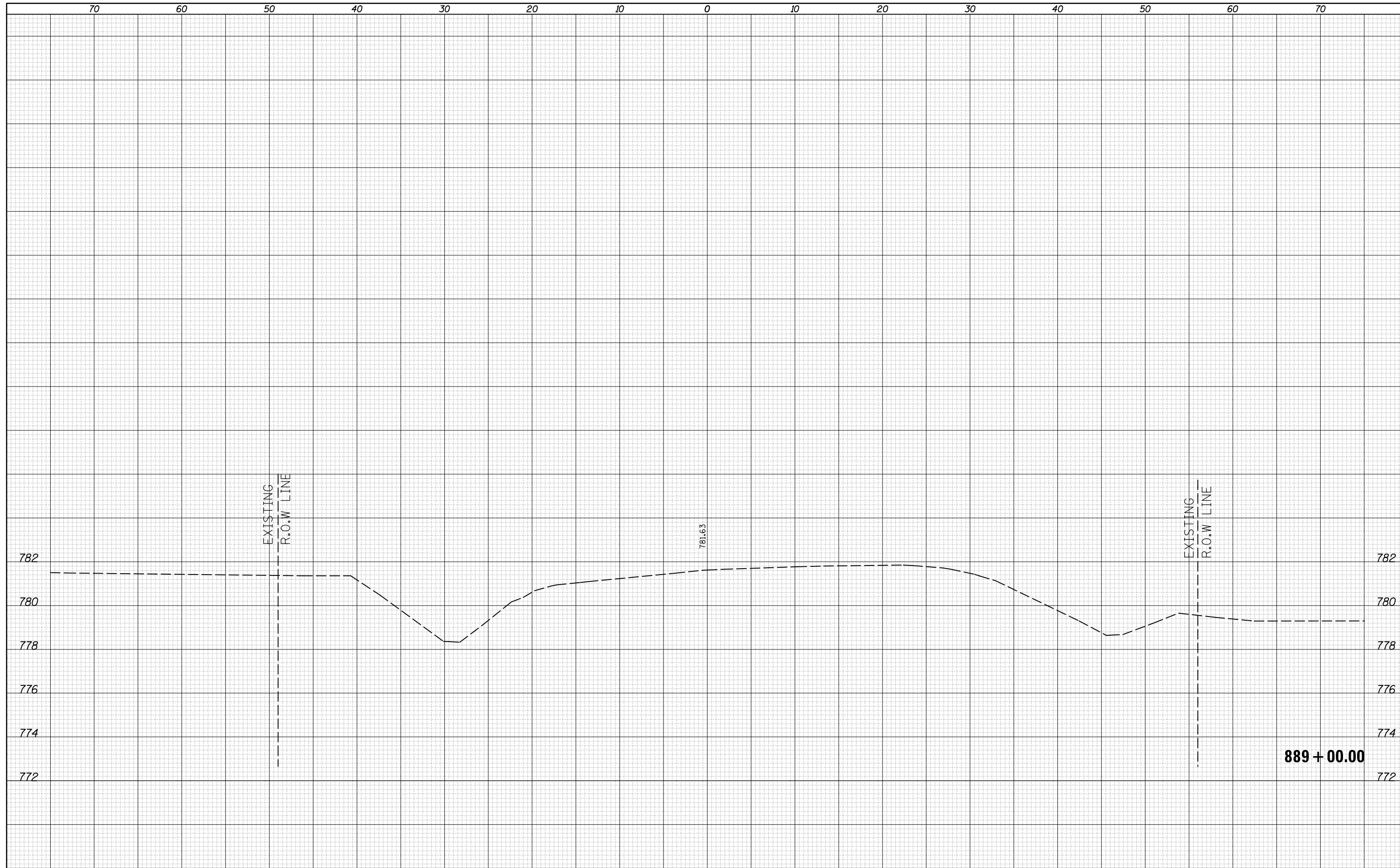


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MODELNAME\$	DOT Offices\District 5\Projects\0570620\CADD\Design\0570620-sht-xsht-S.N.8080.dgn	CHECKED -	REVISIED -		719	13CR	CHAMPAIGN	109	84
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	PLOT DATE = 3/21/2018			SCALE:	SHEET 6 OF 7 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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PLLOT DATE = 3/21/2018		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

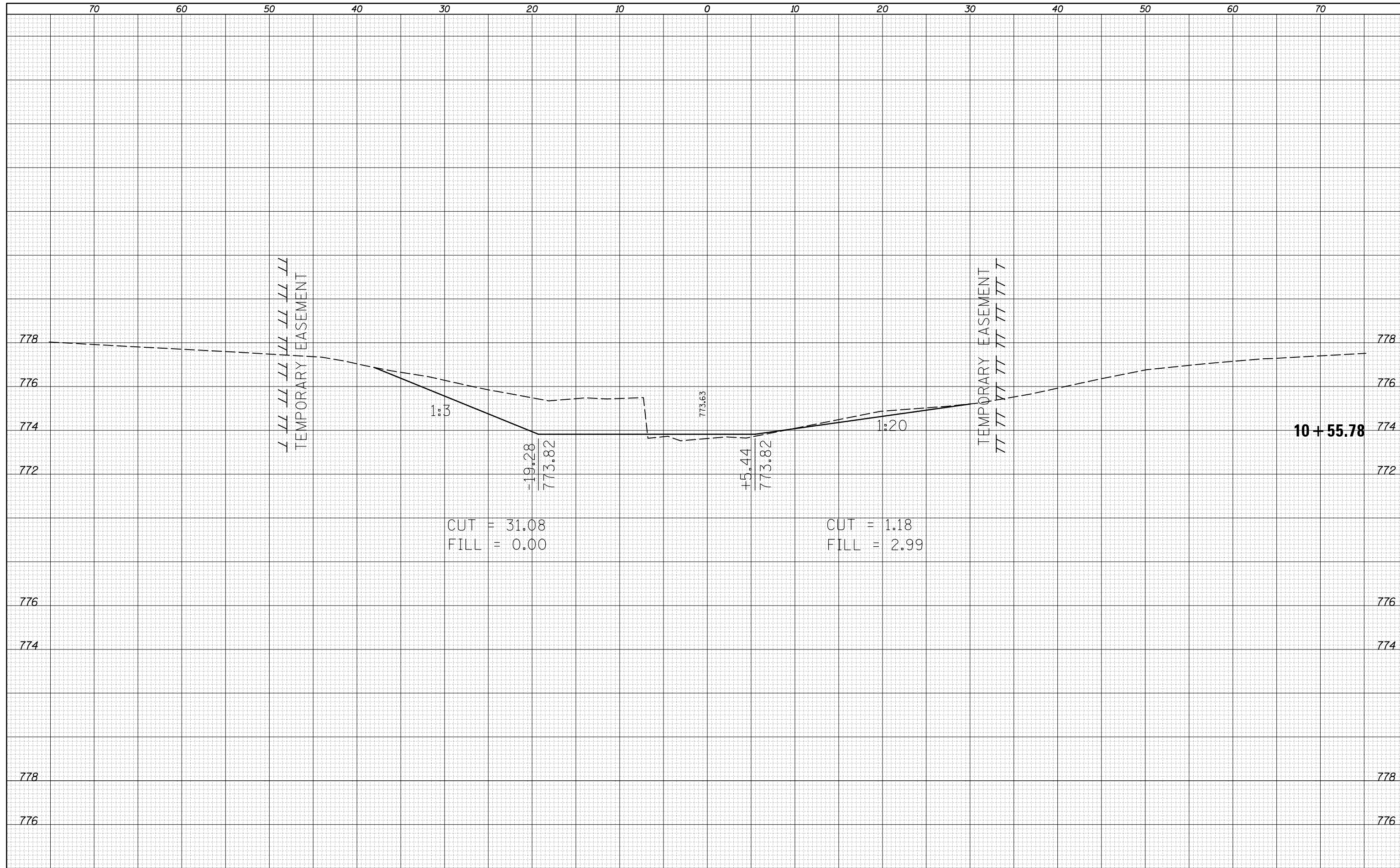
CROSS SECTIONS
CULVERT NO. 2 / PROPOSED S.N. 010-8150

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	85
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

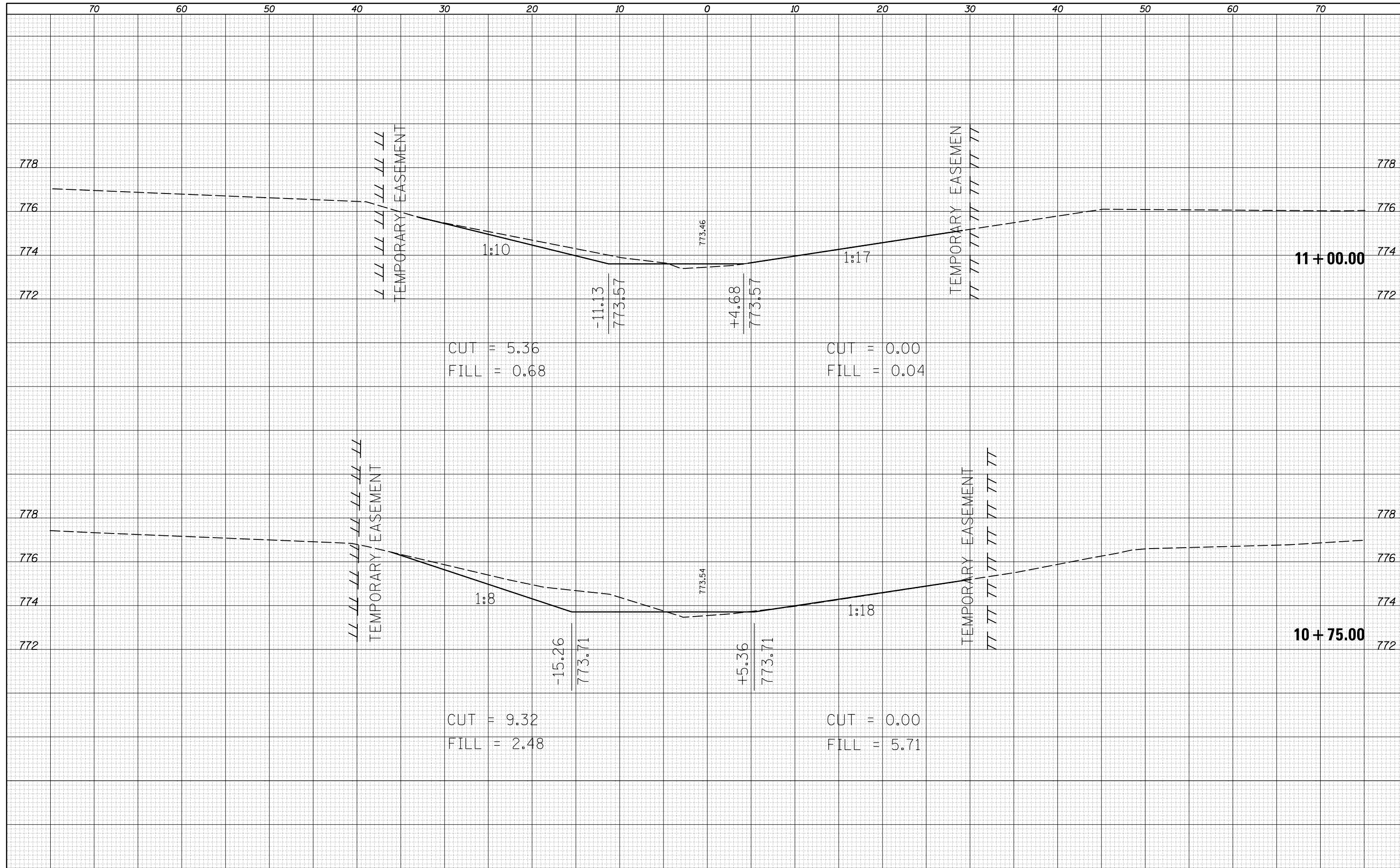
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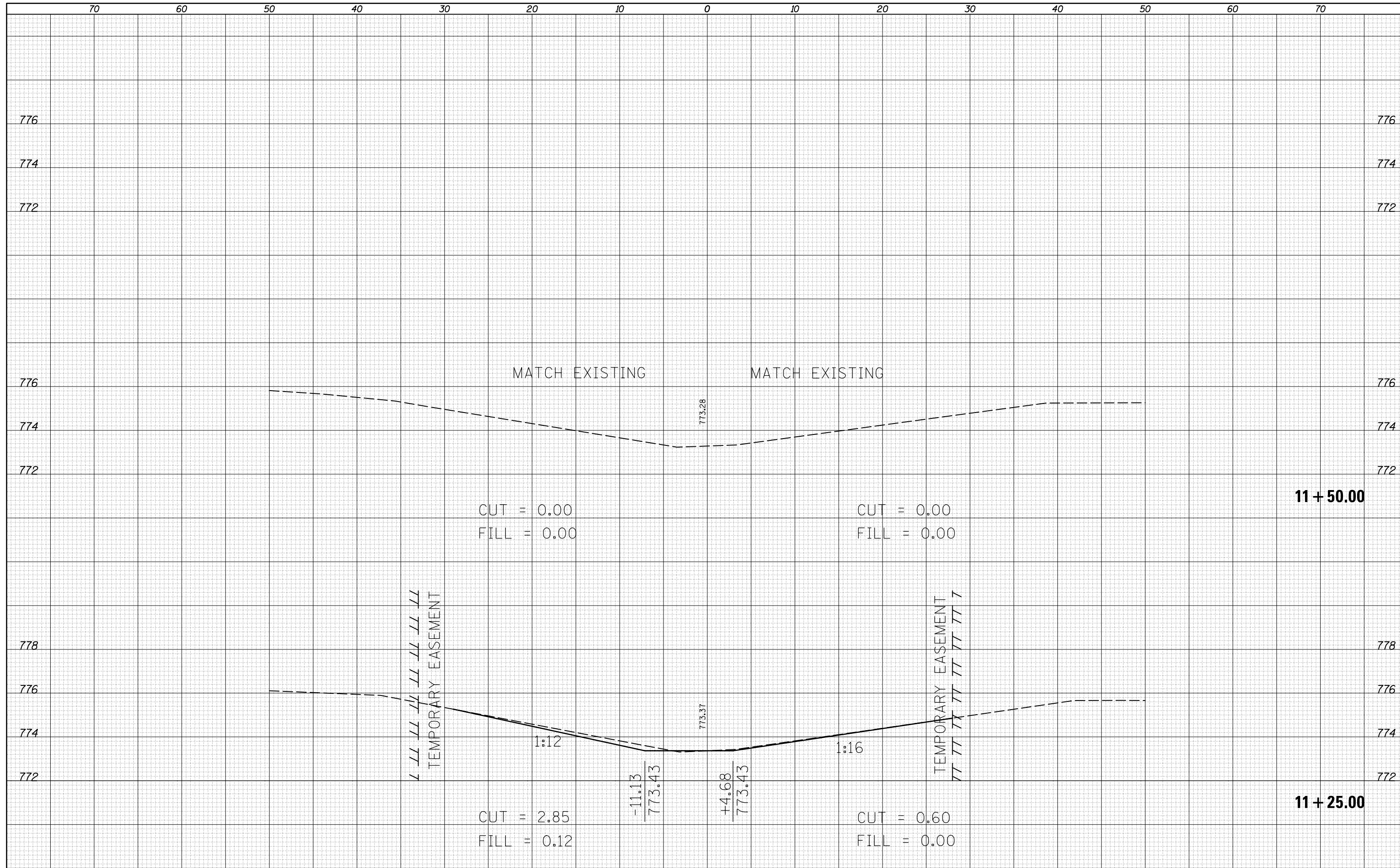
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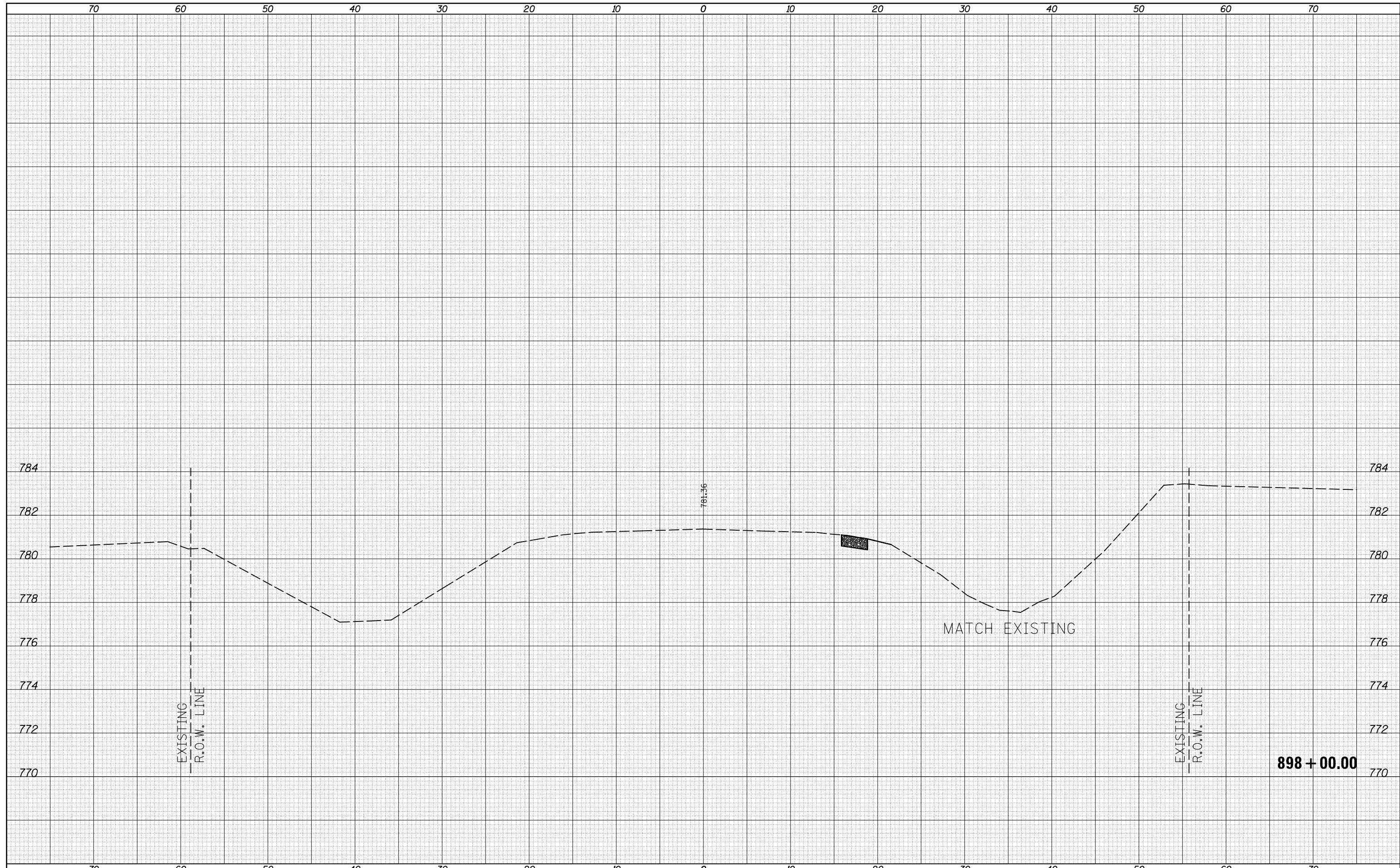
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISÉ -	CROSS SECTIONS CULVERT NO. 3 / PROPOSED S.N. 010-8153	F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0570620\CADD\Design\0570620-sht-xsht-S.N.8081.dgn	DRAWN	REVISÉ -	REVISÉ -		719	13CR	CHAMPAIGN	109	89
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	PLOT DATE = 3/21/2018	DATE -	REVISÉ -	SCALE:	SHEET 1 OF 18 SHEETS		STA.	TO STA.	
					ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME =
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USER NAME = BakerCR	DESIGNED -	REVISÉ -
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PLOT SCALE = 10.0000' / in.	DATE -	REVISÉ -
PLOT DATE = 3/21/2018		

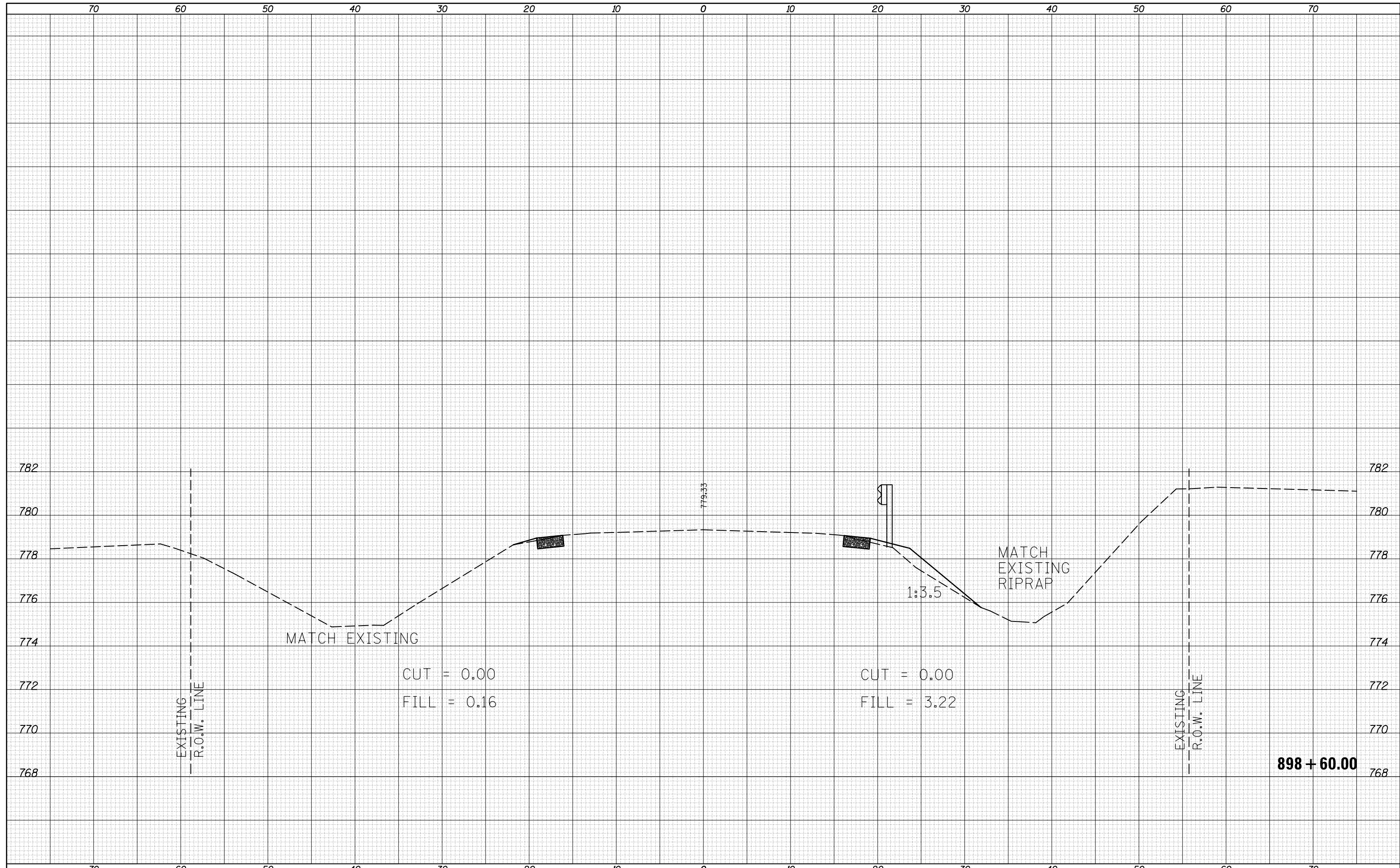
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153
 SCALE: SHEET 2 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	90
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME =
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PLLOT DATE = 3/21/2018	DATE -	REVISÉ -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

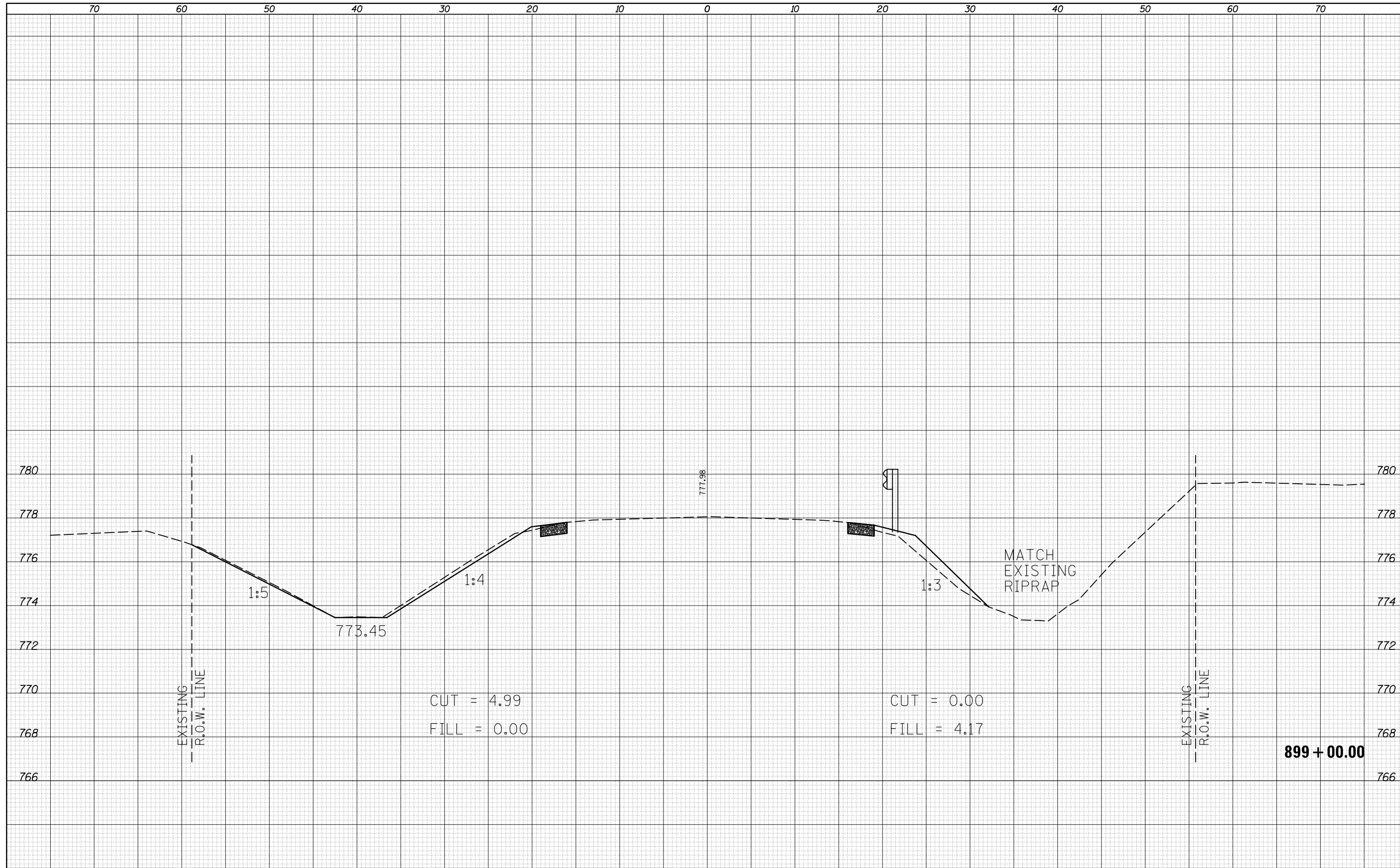
CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153
 SCALE: SHEET 3 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	91
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

898 + 60.00

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DRAWN	REVISER -	REVISER -
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PLOT DATE = 3/21/2018	DATE -	REVISER -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

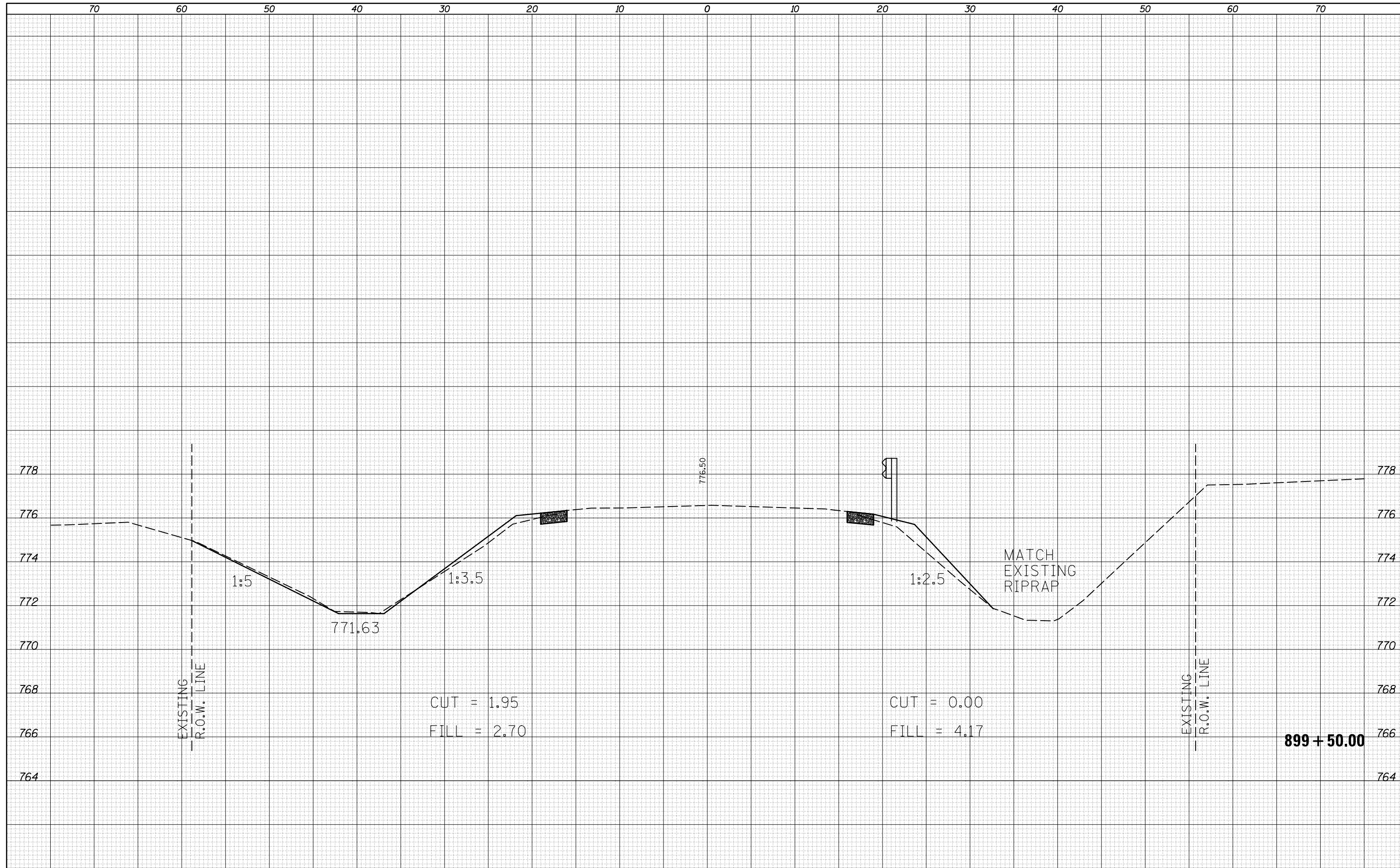
CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153

SCALE: SHEET 4 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	92
CONTRACT NO. 70620				
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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NOTE BOOK	PLOTTED
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FILL = 2.70

CUT = 0.00
FILL = 4.17

MATCH
EXISTING
RIPRAP

899 + 50.00

FILE NAME =
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USER NAME = BakerCR
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PLOT SCALE = 10.0000' / in.
PLOT DATE = 3/21/2018

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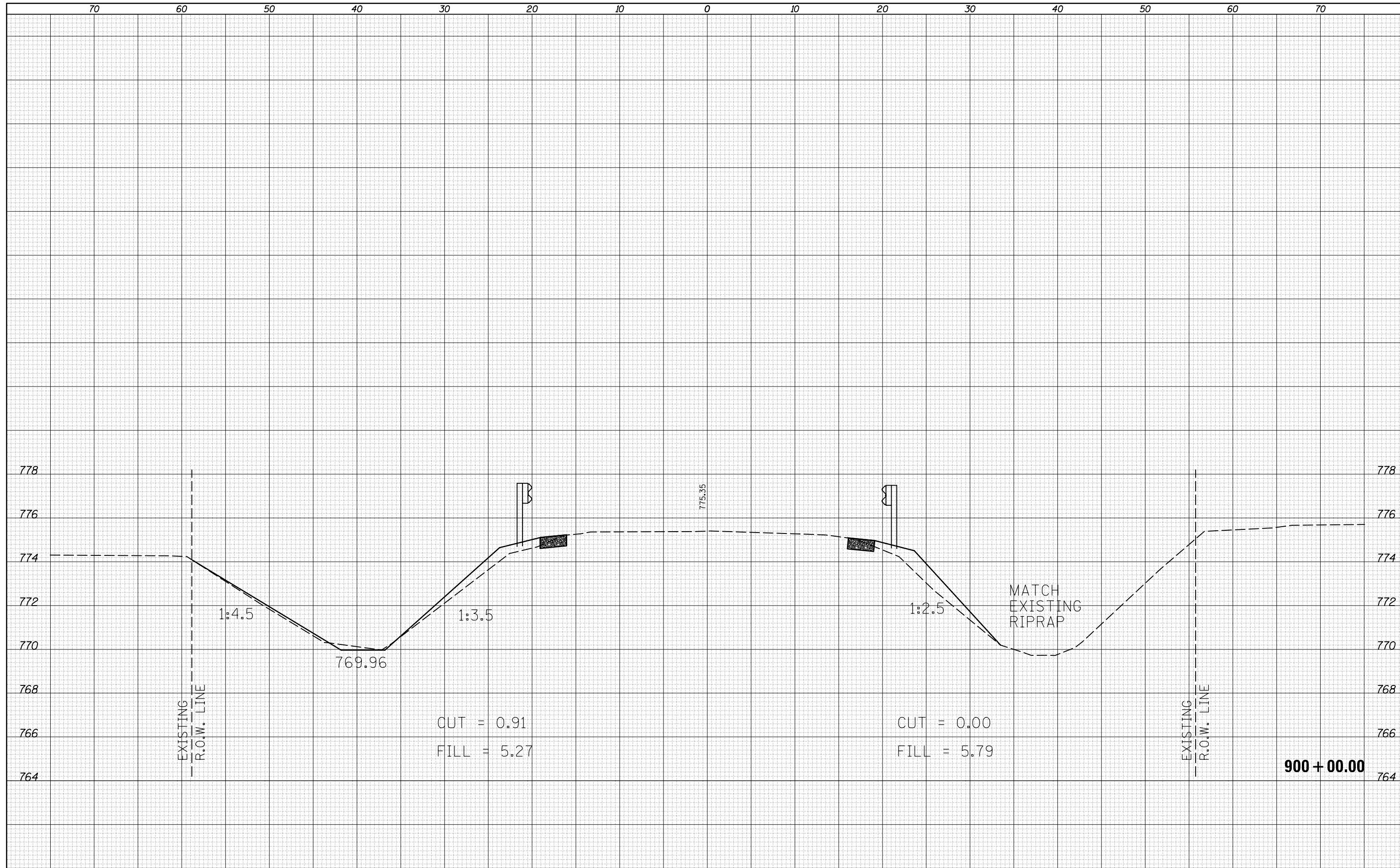
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153
SCALE: SHEET 5 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	93
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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USER NAME = BakerCR	DESIGNED -	REVISÉ -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

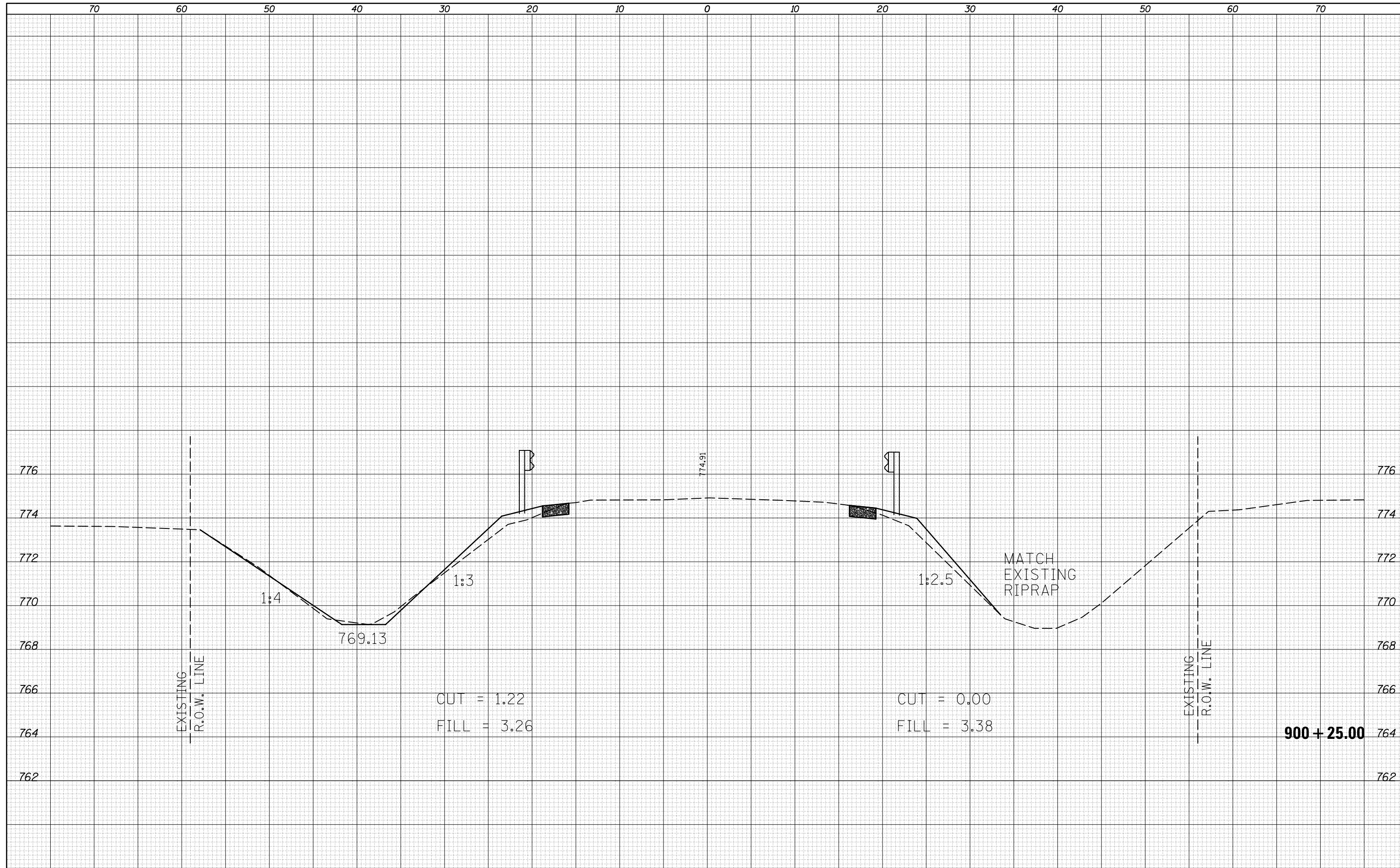
CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153

SCALE: SHEET 6 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	94
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME =
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USER NAME = BakerCR	DESIGNED -	REVISÉ -
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISÉ -
PLOT DATE = 3/21/2018	DATE -	REVISÉ -

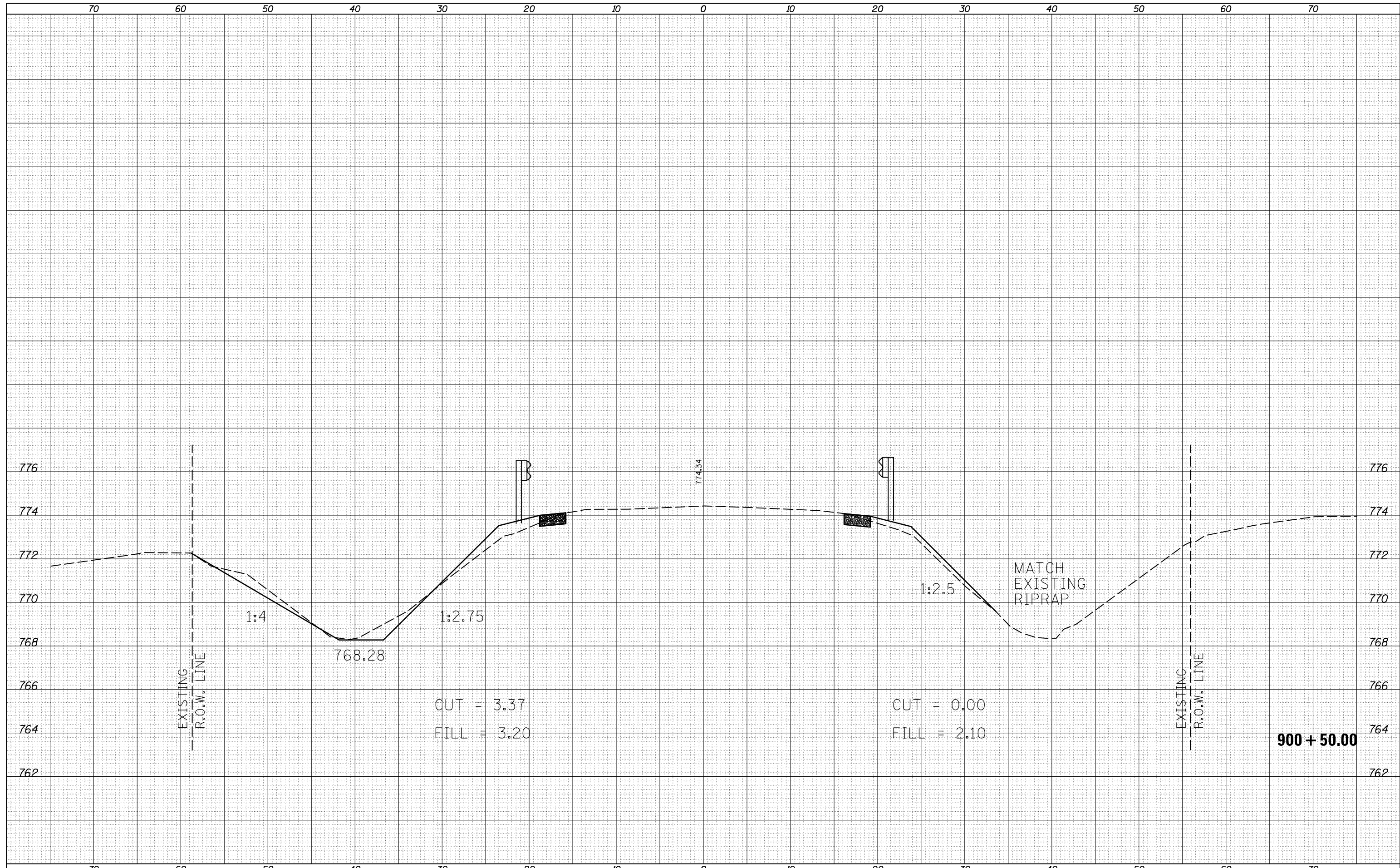
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153
 SCALE: SHEET 7 OF 18 SHEETS STA. TO STA.

F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	95
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

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

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



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USER NAME = BakerCR	DESIGNED -	REVISER -
DRAWN	REVISER -	REVISER -
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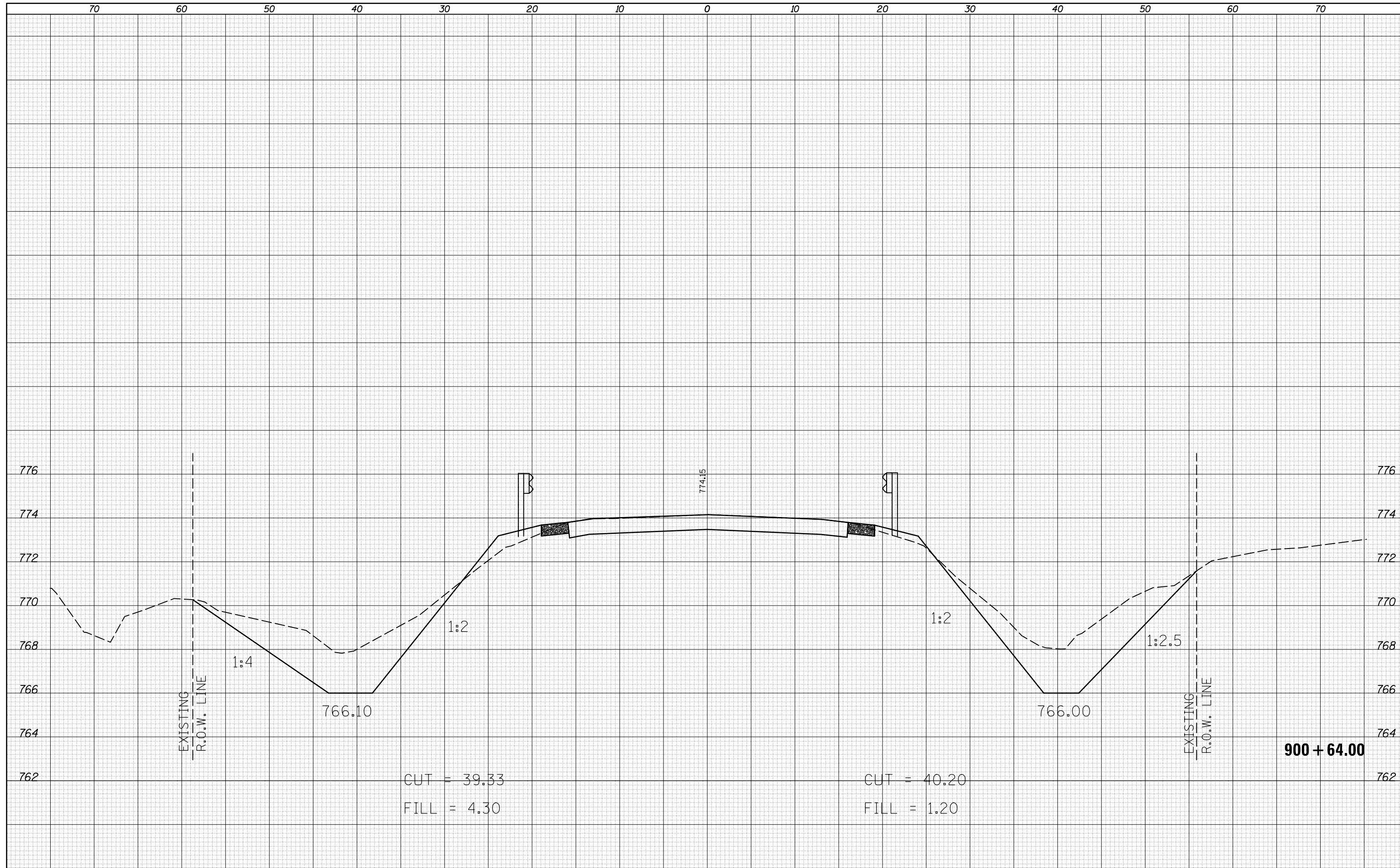
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153
 SCALE: SHEET 8 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	96
CONTRACT NO. 70620				
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

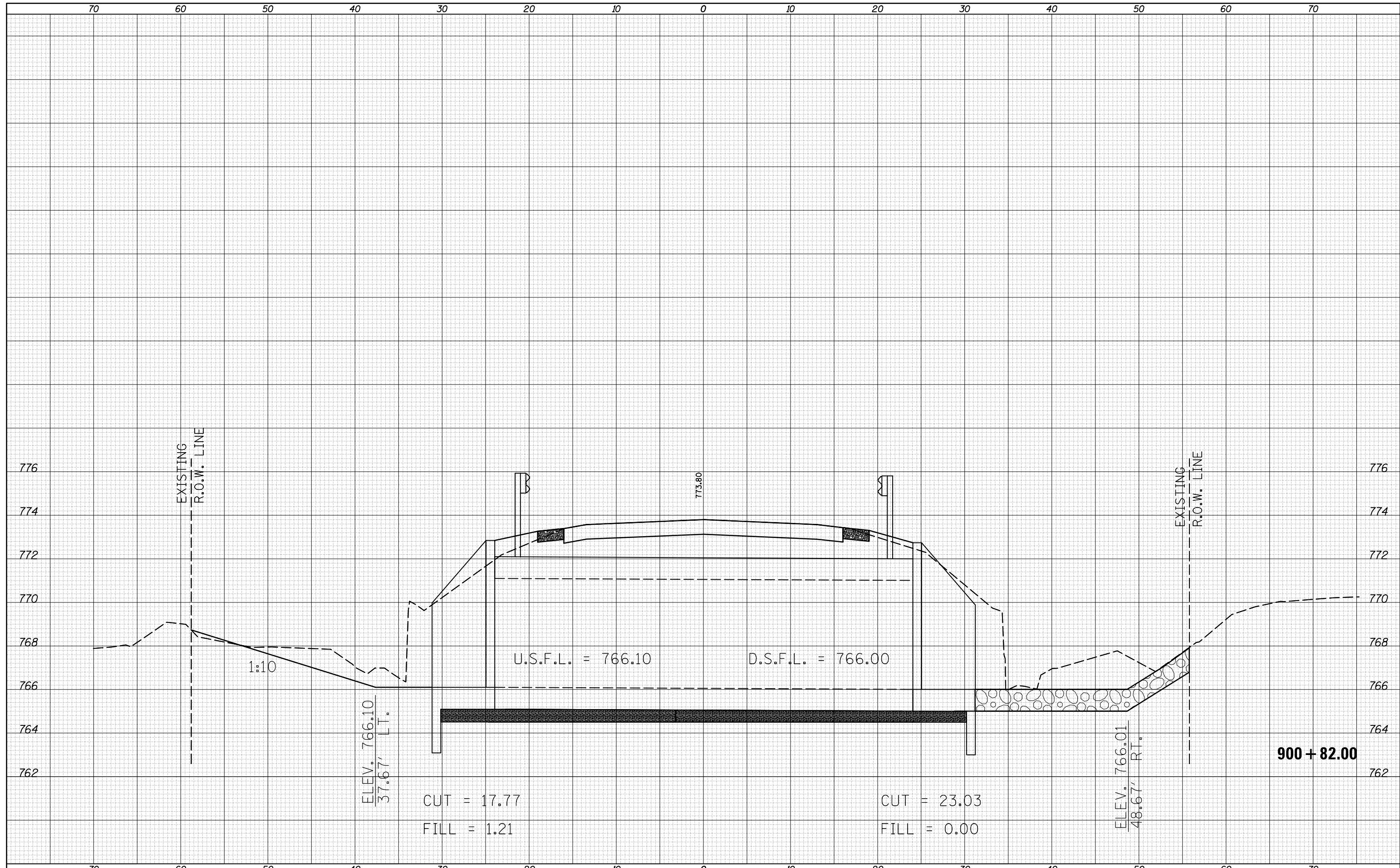


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISIED -	CROSS SECTIONS CULVERT NO. 3 / PROPOSED S.N. 010-8153		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570620\CADD\Design\0570620-sht-xssht-S.N.8081.dgn	DRAWN	REVISIED -	REVISIED -			719	13CR	CHAMPAIGN	109	97
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	PLOT DATE = 3/21/2018	DATE -	REVISIED -							

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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



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PLLOT DATE = 3/21/2018	DATE -	REVISÉ -

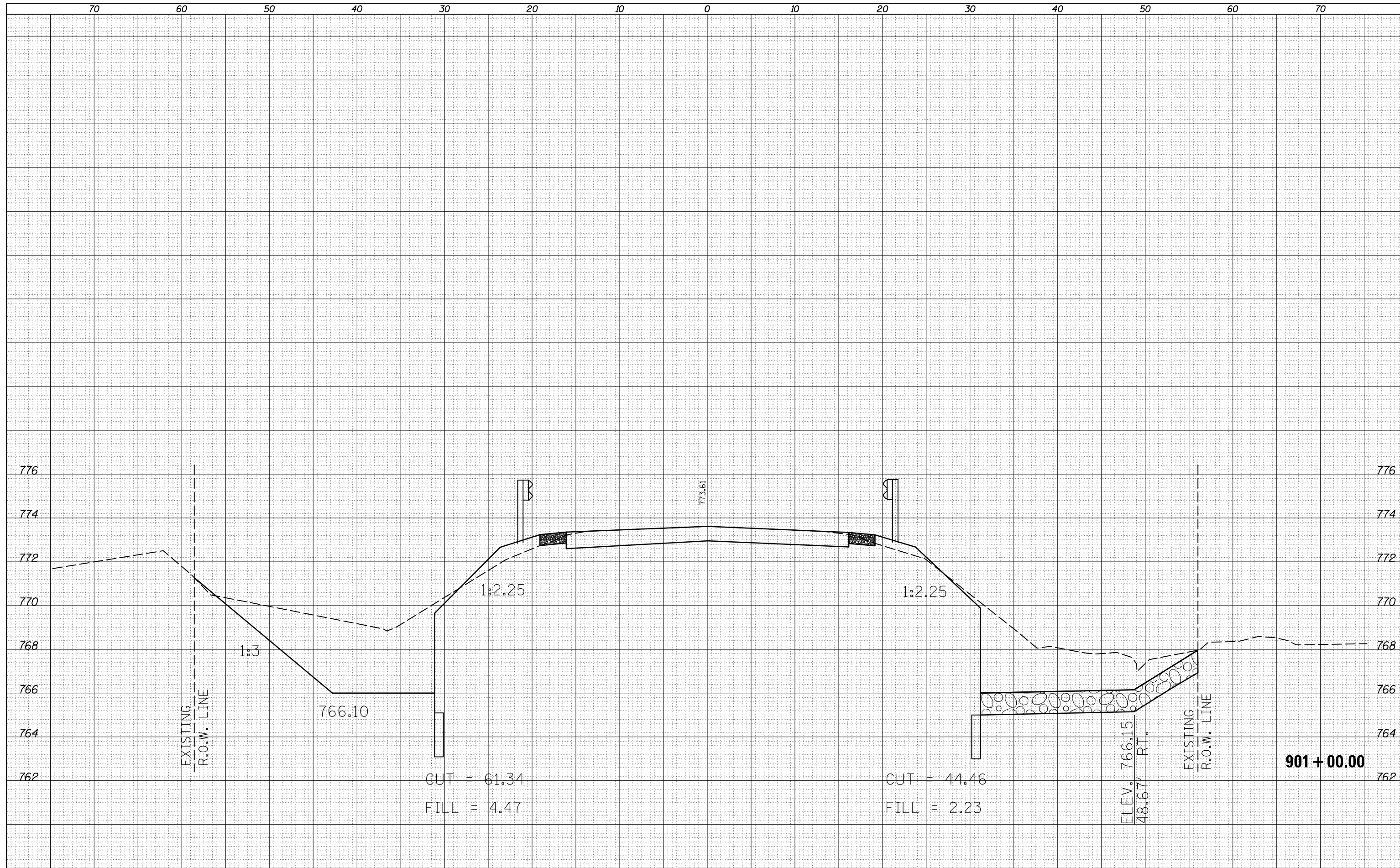
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
CULVERT NO. 3 / PROPOSED S.N. 010-8153
 SCALE: SHEET 10 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	13CR	CHAMPAIGN	109	98
CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	

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

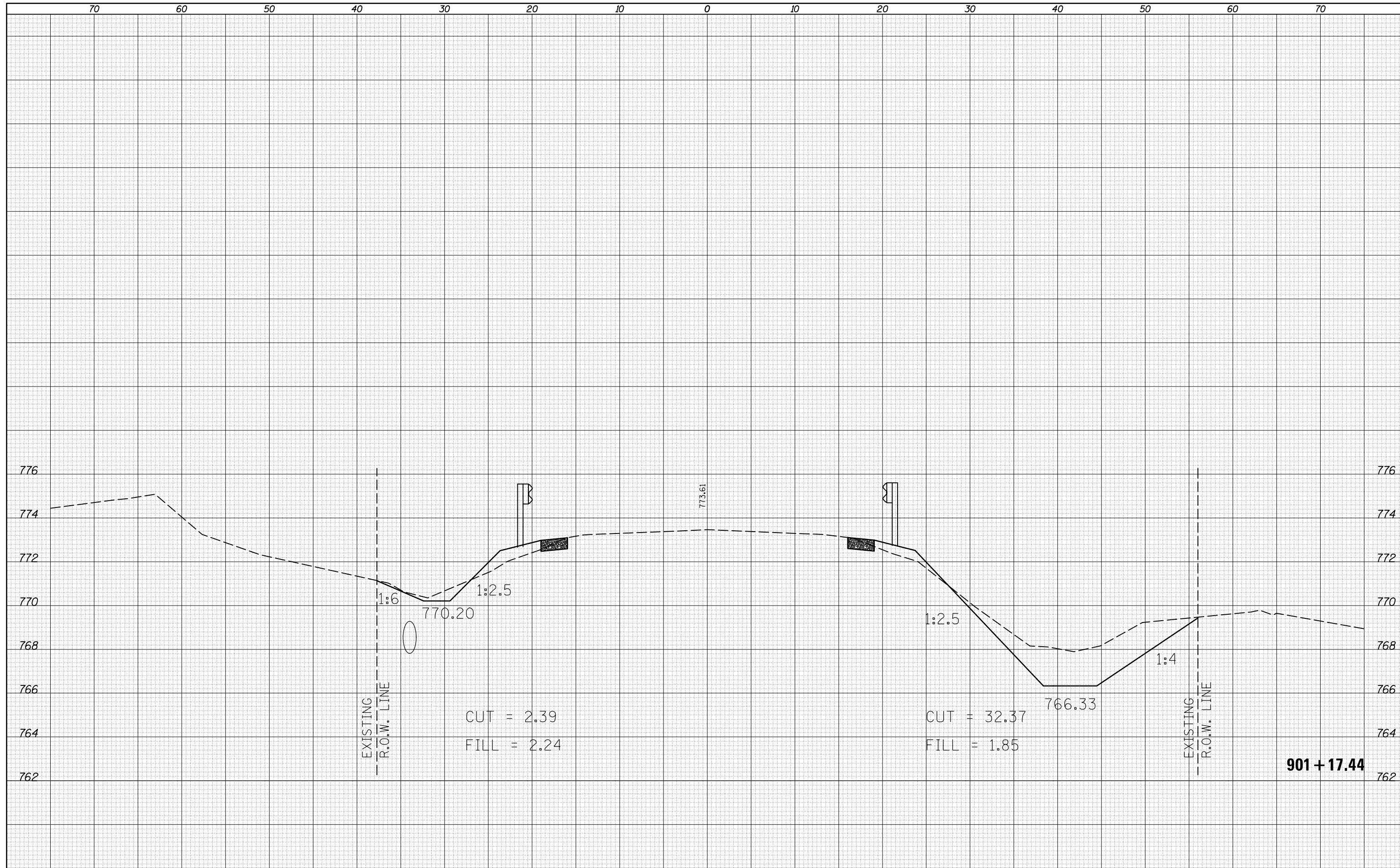
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISER -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO.3 /PROPOSED S.N. 010-8153	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0570620\CAD\DRAWING\0570620-sht-xsht-S.N.8081.dgn	DRAWN	REVISER -	REVISER -			719	13CR	CHAMPAIGN	109	99
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISER -	REVISER -			CONTRACT NO. 70620				
\$MODELNAME\$	DATE -	REVISER -	REVISER -			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/21/2018	DATE -	REVISER -	SCALE:	SHEET 11 OF 18 SHEETS	STA.	TO STA.			

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

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

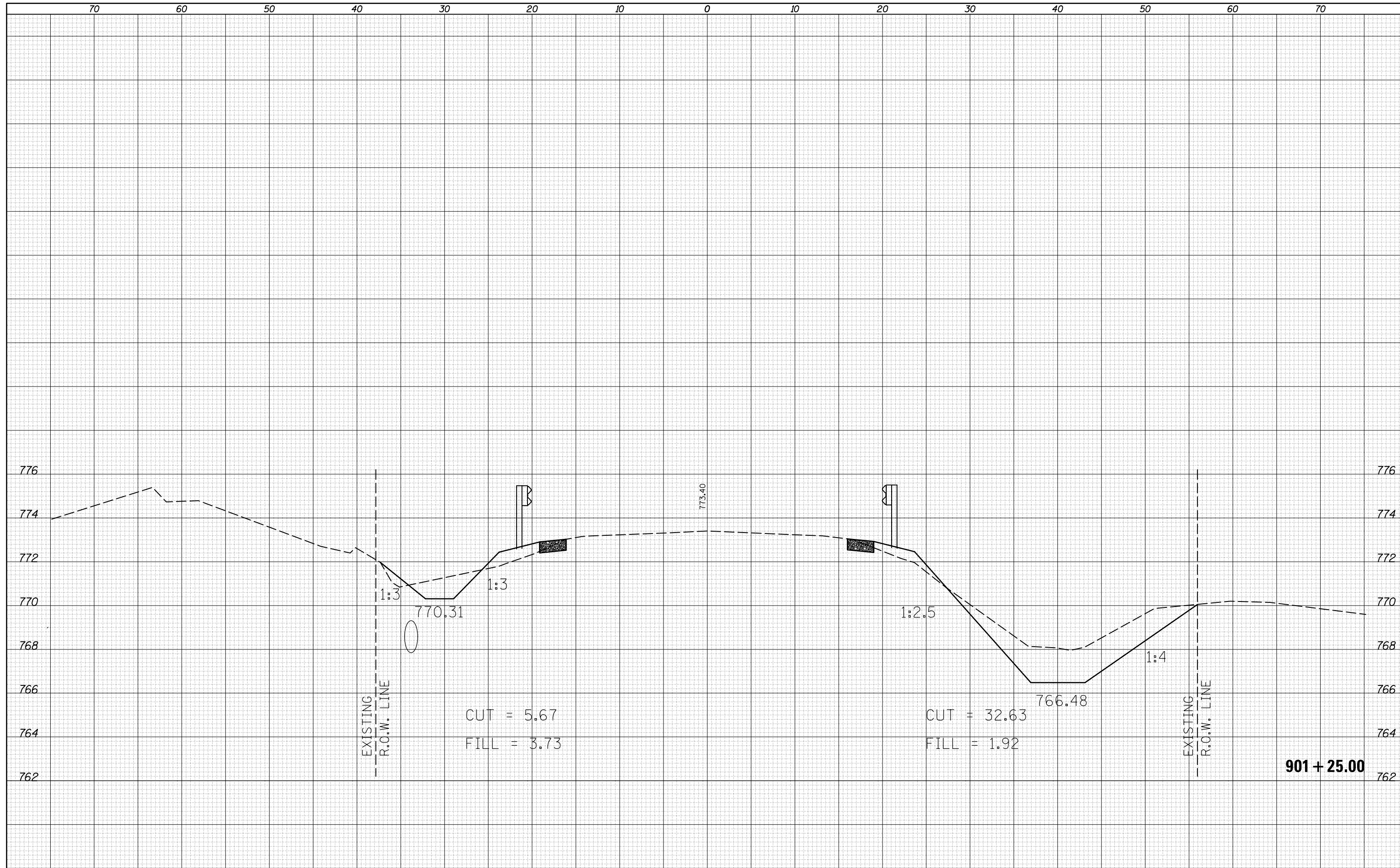


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pw:\IL084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0570620\CADD\Design\0570620-sht-xsht-S.N.001.dgn	DRAWN	REVISÉ -	REVISÉ -					719	13CR	CHAMPAIGN	109	100
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	PLOT DATE = 3/21/2018	DATE -	REVISÉ -					ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

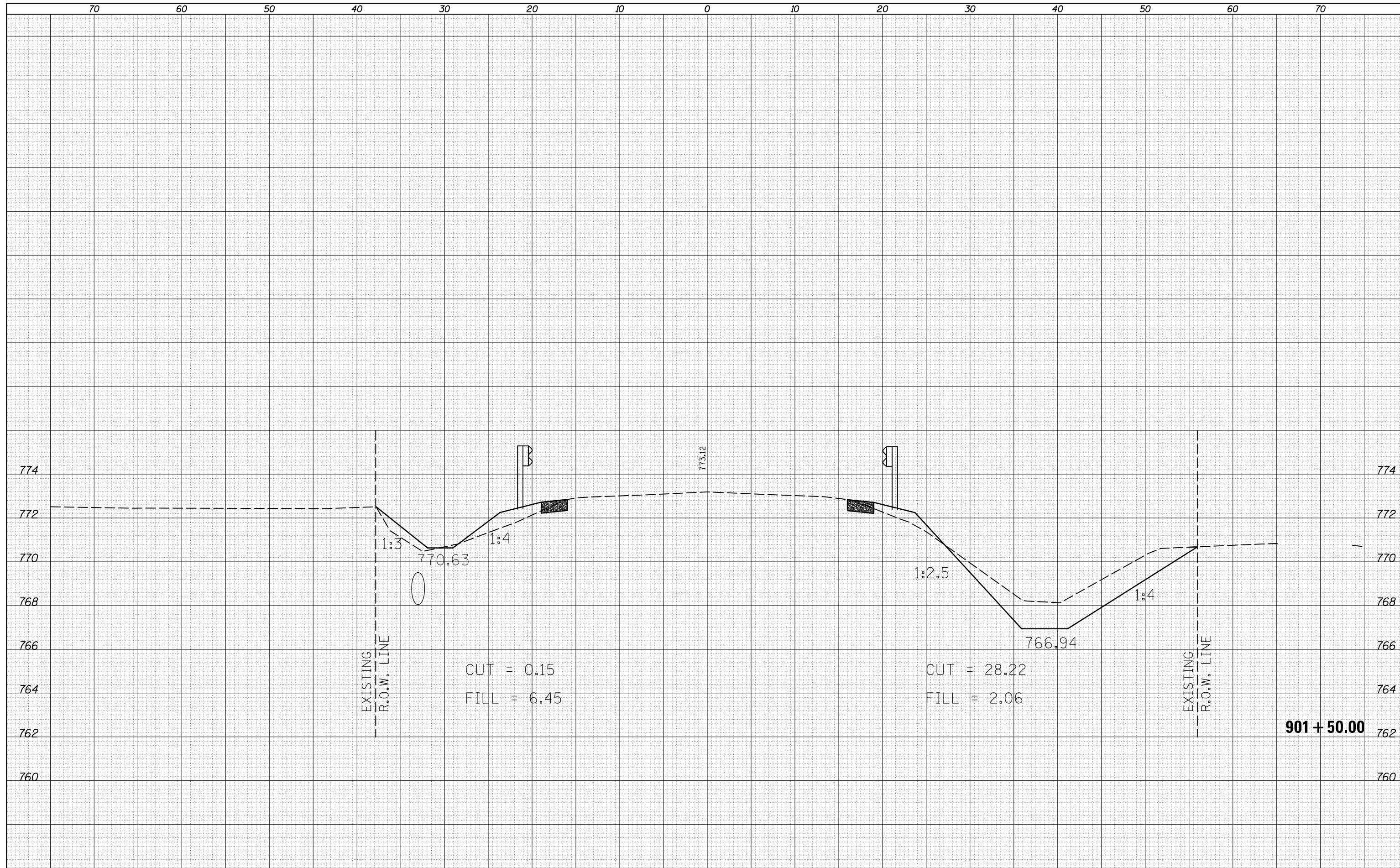


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\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570620\CADD\Design\0570620-sht-xsht-S.N.8081.dgn	DRAWN	REVISIED -	REVISIED -			719	13CR	CHAMPAIGN	109	101
\$MODELNAME\$	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	SCALE: SHEET 13 OF 18 SHEETS STA. TO STA.		CONTRACT NO. 70620		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/21/2018	DATE -	REVISIED -							

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

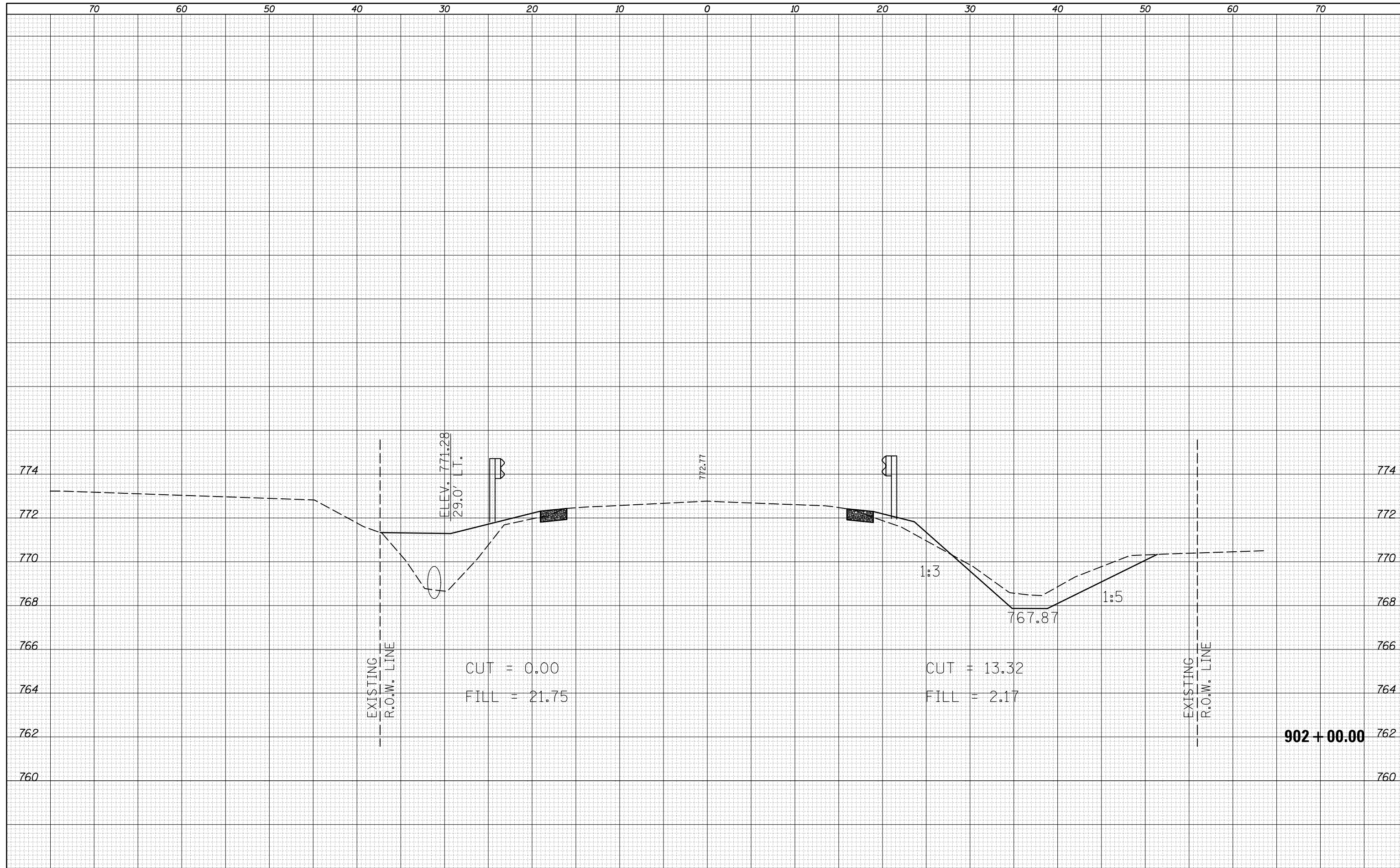
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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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

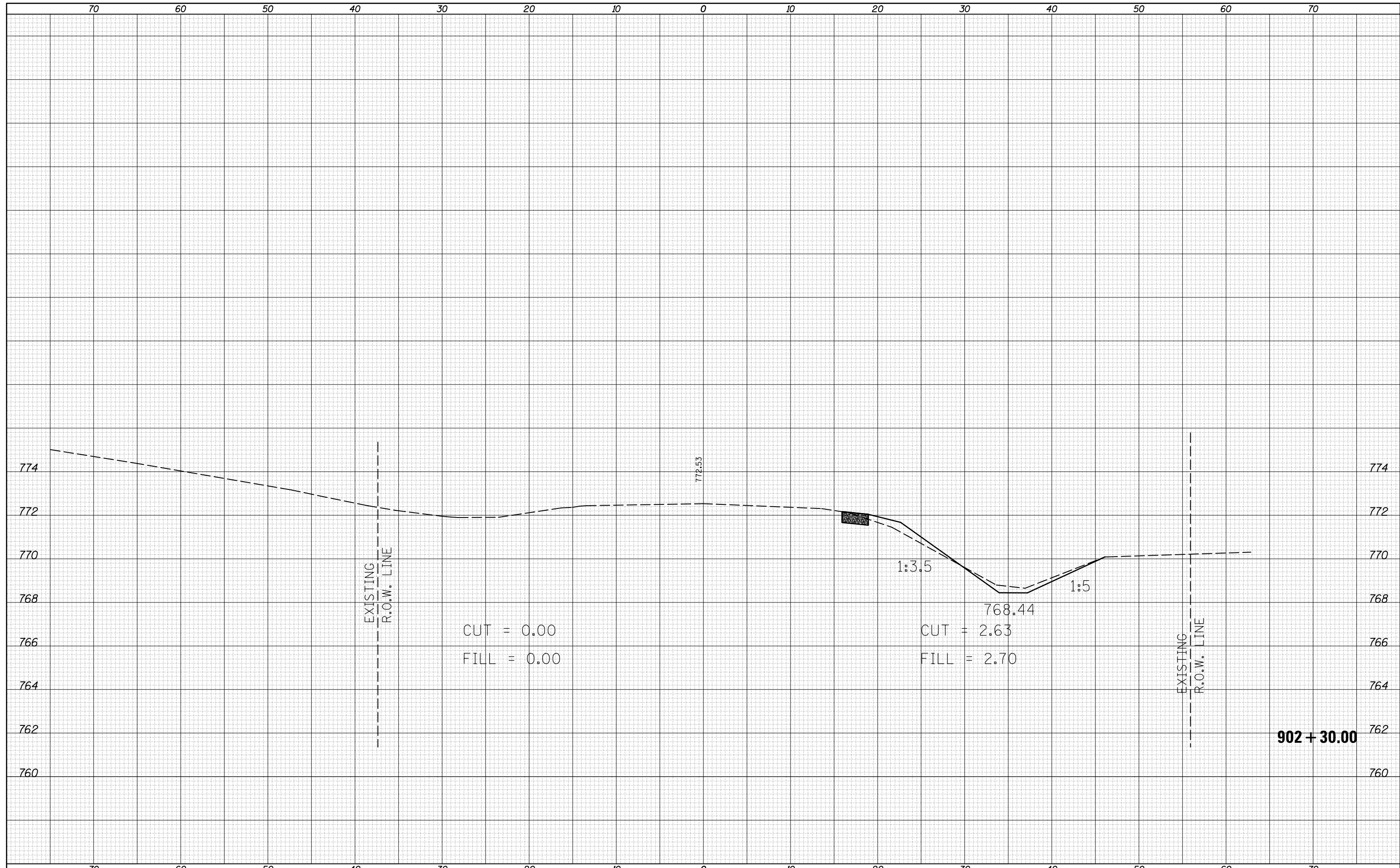
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NOTE BOOK	
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CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620	CONTRACT NO. 70620
SCALE:	SHEET 15 OF 18 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT								

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	



CUT = 0.00
FILL = 0.00

CUT = 2.63
FILL = 2.70

FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISOR -	CROSS SECTIONS CULVERT NO. 3 / PROPOSED S.N. 010-8153		F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG.Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0570620\CADD\Drawings\0570620-sht-xsht-S.N.8081.dgn	PLotted	CHECKED -	REVISOR -			719	13CR	CHAMPAIGN	109	104
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	PLLOT DATE = 3/21/2018							ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

902 + 30.00

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

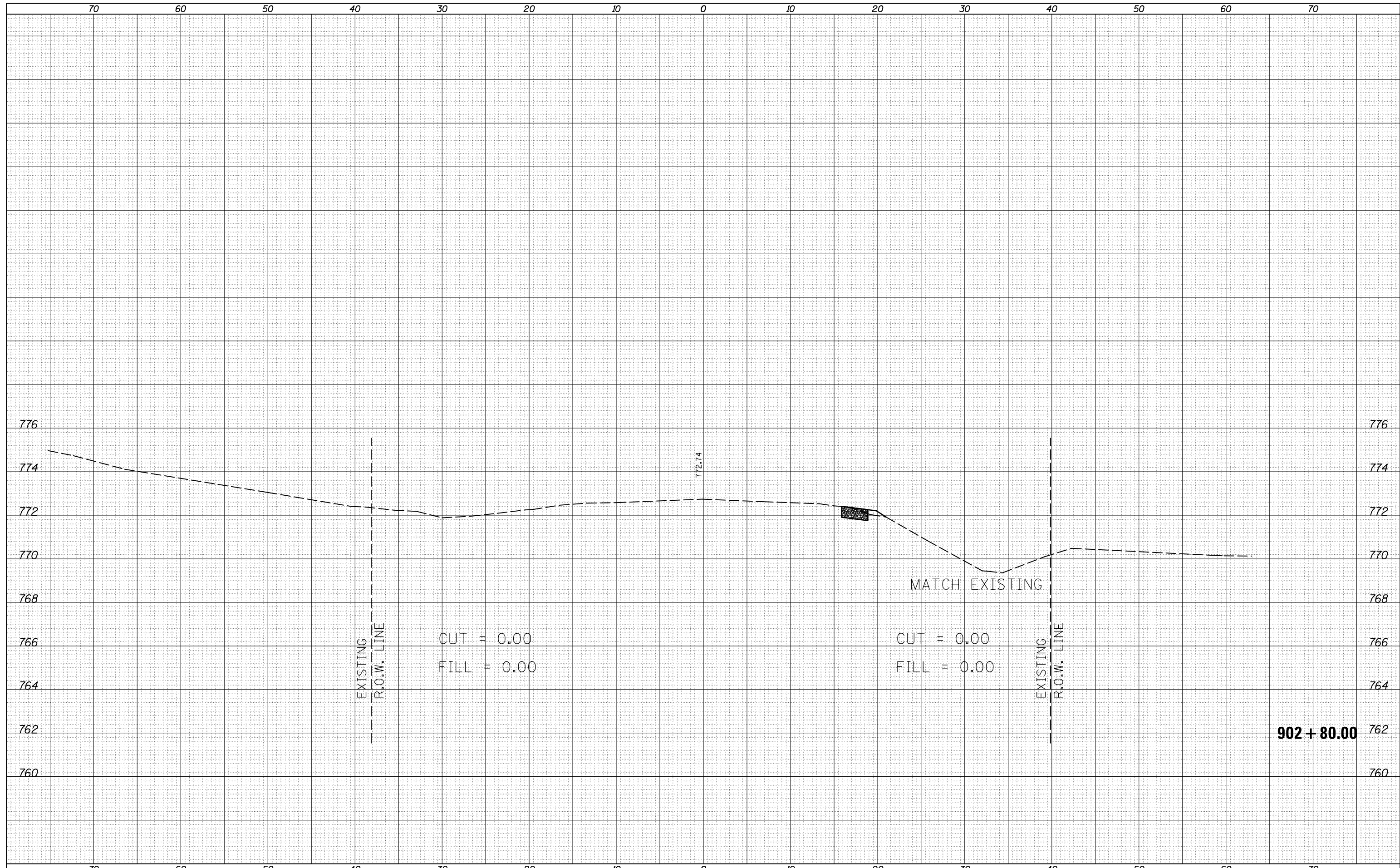
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BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISÉ -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS		F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 3/21/2018	DATE -	REVISÉ -			SHEET 17 OF 18 SHEETS		STA. TO STA.				

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

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

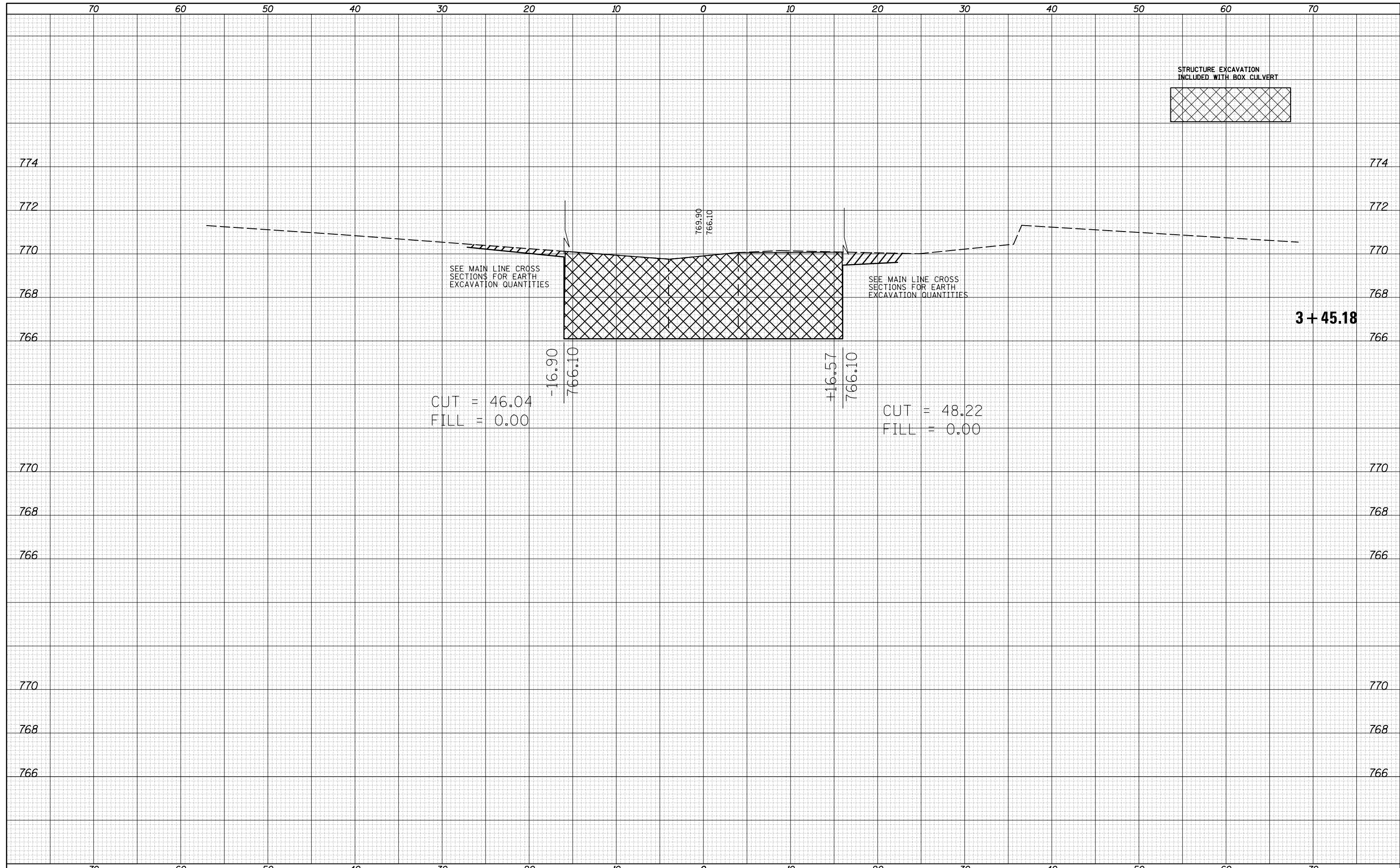


FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISÉ -	CROSS SECTIONS CULVERT NO. 3 / PROPOSED S.N. 010-8153				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\0570620\CADD\Design\0570620-sht-xsht-S.N.8081.dgn	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISÉ -					719	13CR	CHAMPAIGN	109	106
\$MODELNAME\$	PLLOT DATE = 3/21/2018	DATE -	REVISÉ -	SCALE:	SHEET 18	OF 18 SHEETS	STA.	TO STA.	CONTRACT NO. 70620			
											ILLINOIS FED. AID PROJECT	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

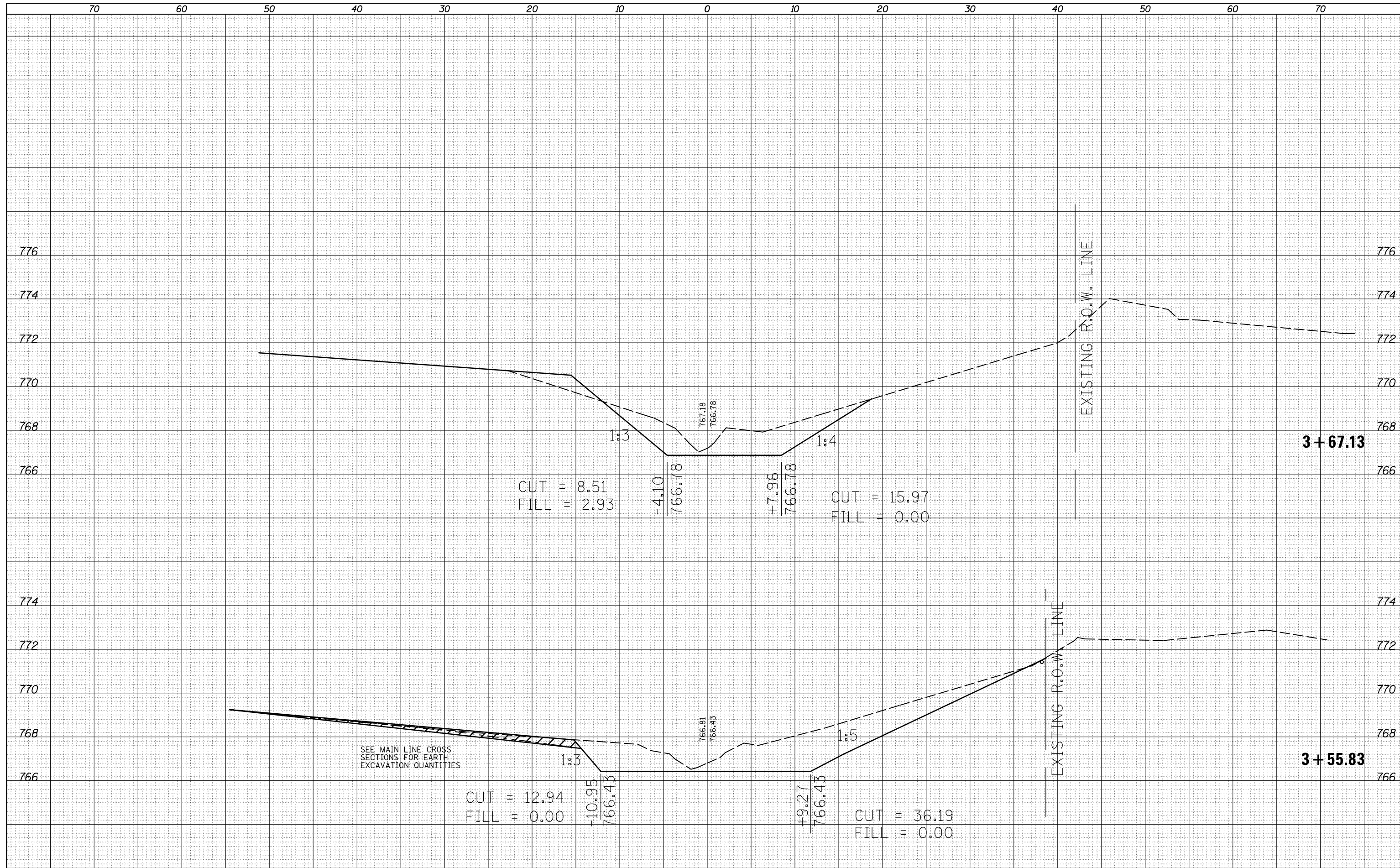
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BY	
FINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

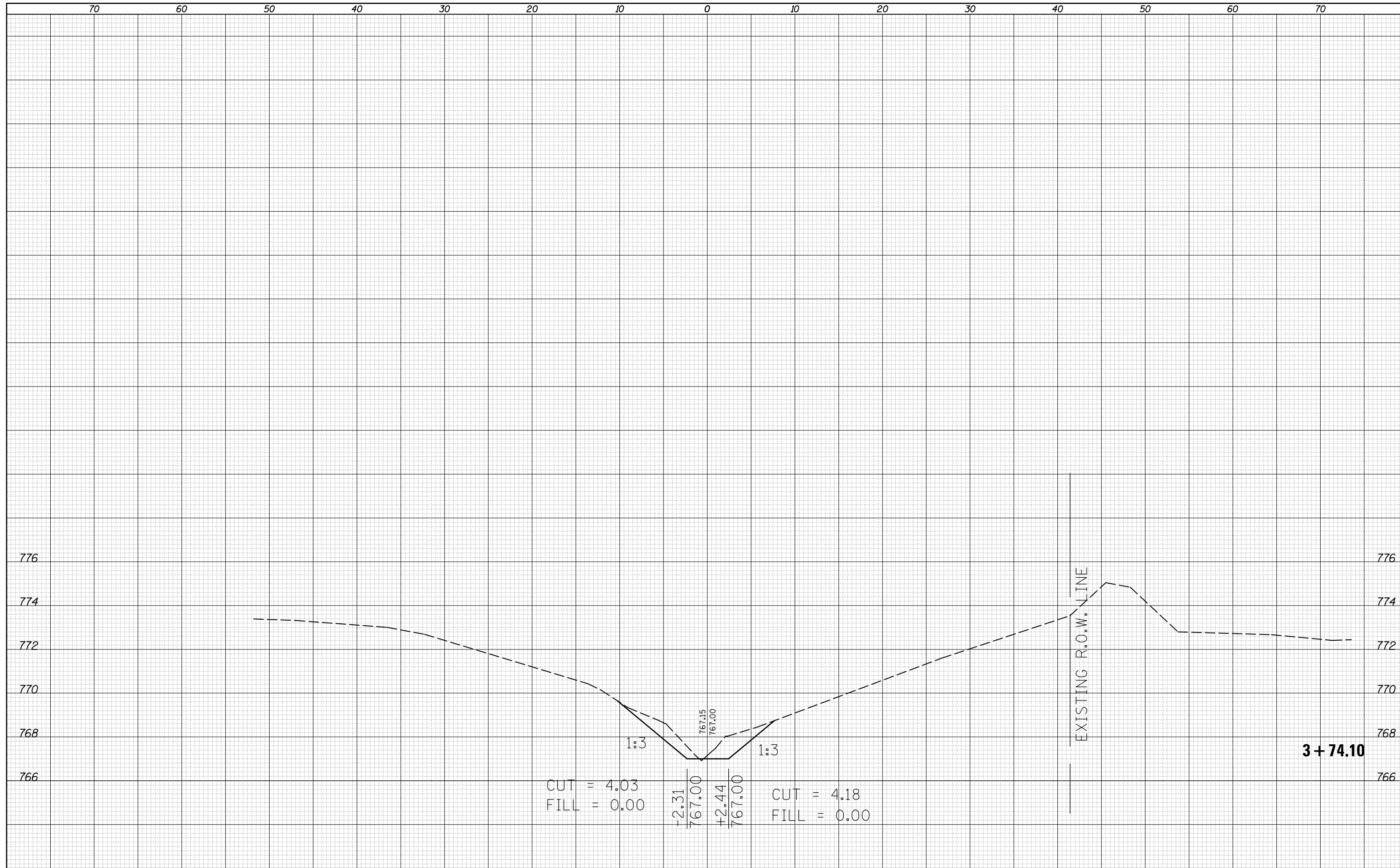
DATE	
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = BakerCR	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO. 3 / STREAM			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT =	PROJECT =	CHECKED -	REVISOR -		719	13CR	CHAMPAIGN	109	108			
DATE =	DATE =	DATE -	DATE -		CONTRACT NO. 70620			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 -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CULVERT NO. 3 / STREAM			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL084EBIDINTEG...	DOT Offices\District 5\Projects\0570620\CAD\DRAWING\0570620-sht-XS_8081-STREAM.dwg	CHECKED -	REVISOR -					719	13CR	CHAMPAIGN	109	109
MODELNAME	PLOT DATE = 3/21/2018	DATE -	REVISOR -					CONTRACT NO. 70620			ILLINOIS FED. AID PROJECT	