06-10-2016 LETTING ITEM 093

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	1
	ILLINOIS	CONTRACT NO. 70278		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.S. 502 (LEVERETT RD.)
SECTION 106BR-1(1)
PROJECT: ACSTP-0502 (017)
CULVERT REPLACEMENT
CHAMPAIGN COUNTY

C-95-120-02

STREAM AT I-57 N OF CHAMPAIGN

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-8

CURRENT TRAFFIC DATA

2015 ADT	2,850
P.U. %	89.9
S.U. %	5.4
M.U. %	4.7

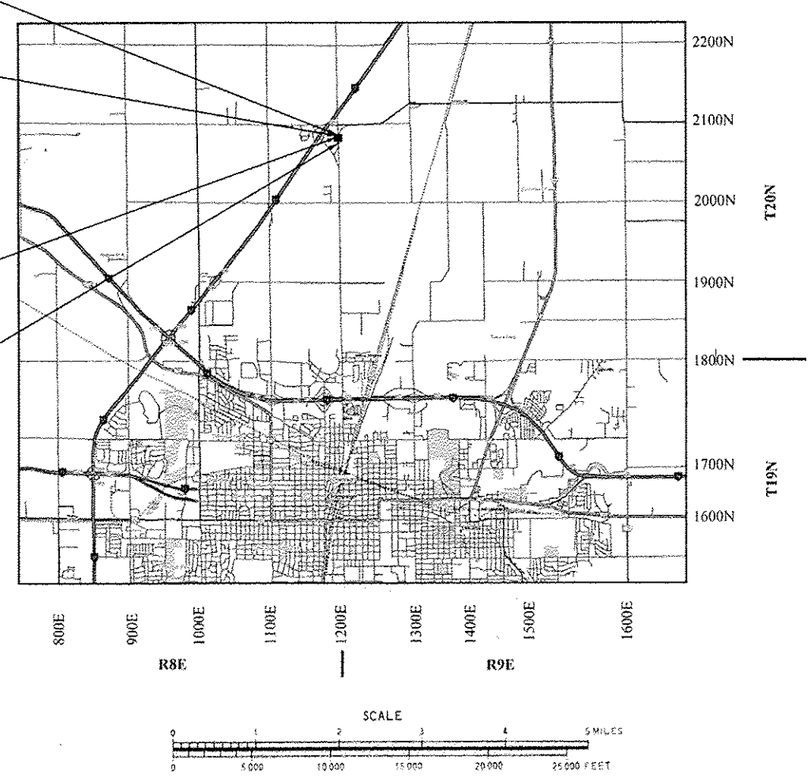
DESIGN DESIGNATION: N/A

F.A.S. 502 SECTION 106BR-1(1)
ENDS: STATION 148+00.00

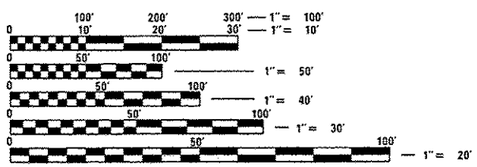
CULVERT REPLACEMENT
EXISTING S.N. 010-2010 AT STA. 145+89.50
TRIPLE 10' X 11' REINFORCED CONCRETE BOX CULVERT
PROPOSED S.N. 010-2037 AT STA. 145+89.50
TRIPLE 12' X 12' CAST IN PLACE CONCRETE
BOX CULVERT WITH SOLDIER PILE WINGWALLS

STATION EQUATION:
STA. 23+76.50 (BK) =
STA. 144+96.26 (AH)

F.A.S. 502 SECTION
106 BR-1(1) BEGINS:
STATION: 23+00.00



GROSS LENGTH = 40.0 FT. = 0.008 MILE
NET LENGTH = 40.0 FT. = 0.008 MILE



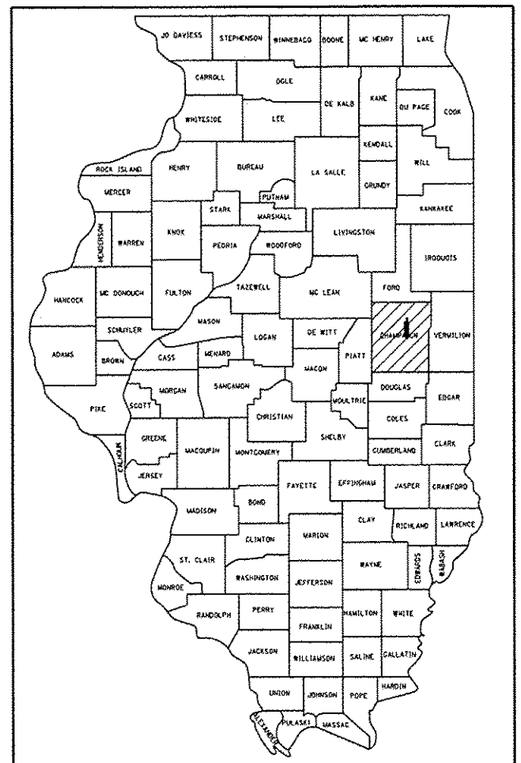
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811
HENSLEY & SOMMER TOWNSHIPS

PROJECT ENGINEER: NANCY FASIG
SQUAD LEADER: BRIAN J. HOGAN
DESIGNER: BILLY J. MURPHY

CONTRACT NO. 70278

D-95-072-02



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 18 20 16
Kenneth A. Gunnett
REGION THREE ENGINEER

May 6 20 16
Kathleen M. Addis P.E. by
ENGINEER OF DESIGN AND ENVIRONMENT

May 6 20 16
Omer Osman P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
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
442201 - 03	CLASS C AND D PATCHES
515001 - 03	NAME PLATE FOR BRIDGES
630001 - 10	STEEL PLATE BEAM GUARDRAIL
630101 - 09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301 - 06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011 - 09	TRAFFIC BARRIER TERMINAL, TYPE 2
667101 - 02	PERMANENT SURVEY MARKERS
701001 - 02	OFF - RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006 - 05	OFF - RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701201 - 04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS≤ 45 MPH
701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311 - 03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701321 - 15	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901 - 05	TRAFFIC CONTROL DEVICES
704001 - 08	TEMPORARY CONCRETE BARRIER
720001 - 01	SIGN PANEL MOUNTING DETAILS
720006 - 04	SIGN PANEL ERECTION DETAILS
720011 - 01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001	OBJECT AND TERMINAL MARKERS
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001 - 05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & HIGHWAY STANDARDS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	2
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

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.-202
GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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 PAY 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.-406
THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

GN-406H Mixture Requirements Contract 70278

Location	Leverett Rd	Leverett RD
Mixture Use	Class D, Var.Depth Binder, Base Cse Option, Bottom 8" HMA Shldr.	Surface, Top 1 1/2" HMA Shldr.
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 19.0	IL 9.5
Friction Aggregate	N.A.	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

G.N.-667
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAYOUT OF THESE MARKERS.

G.N.-703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

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.

G.N.-SPL
THE REMOVAL AND DISPOSAL OF THE EXISTING APPROACH SLABS OR CONCRETE PAVEMENT PATCHES ARE INCLUDED WITH REMOVAL OF EXISTING STRUCTURES.

NO COMMITMENTS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & COMMITMENTS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	3
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

LOCATION OF WORK: FAS 502 (LEVERETT RD.)

RURAL

MAJOR COLLECTOR

STA. 23+00.00 TO STA. 148+00.00

CHAMPAIGN COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0011

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	
	20200100		EARTH EXCAVATION	CU YD	335.0	335.0
	20700220		POROUS GRANULAR EMBANKMENT	CU YD	420.0	420.0
	25000210		SEEDING, CLASS 2A	ACRE	0.25	0.25
	25000350		SEEDING, CLASS 7	ACRE	0.75	0.75
	25000400		NITROGEN FERTILIZER NUTRIENT	POUND	25.0	25.0
	25000500		PHOSPHOROUS FERTILIZER NUTRIENT	POUND	25.0	25.0
	25000600		POTASSIUM FERTILIZER NUTRIENT	POUND	25.0	25.0
	25100115		MULCH, METHOD 2	ACRE	0.75	0.75
	25100630		EROSION CONTROL BLANKET	SQ YD	10,890.0	10,890.0
	28000250		TEMPORARY EROSION CONTROL SEEDING	POUND	600.0	600.0
	28000400		PERIMETER EROSION BARRIER	FOOT	350.0	350.0
	28000500		INLET AND PIPE PROTECTION	EACH	4.0	4.0
	28100107		STONE RIPRAP, CLASS A4	SQ YD	230.0	230.0
	28200200		FILTER FABRIC	SQ YD	230.0	230.0
* DENOTES SPECIALTY ITEM						

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FILE NAME =	USER NAME = bergeej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -						ILLINOIS FED. AID PROJECT	

LOCATION OF WORK: FAS 502 (LEVERETT RD.)

RURAL

MAJOR COLLECTOR

STA. 23+00.00 TO STA. 148+00.00

CHAMPAIGN COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0011

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	
	40200800		AGGREGATE SURFACE COURSE, TYPE B	TON	90.0	90.0
	40600275		BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,100.0	1,100.0
	40600290		BITUMINOUS MATERIALS (TACK COAT)	POUND	820.0	820.0
	40600982		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	145.0	145.0
	40600990		TEMPORARY RAMP	SQ YD	40.0	40.0
	40603080		HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	150.0	150.0
	40603310		HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	100.0	100.0
	44000200		DRIVEWAY PAVEMENT REMOVAL	SQ YD	55.0	55.0
	44004250		PAVED SHOULDER REMOVAL	SQ YD	60.0	60.0
	44201747		CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	240.0	240.0
	48203100		HOT-MIX ASPHALT SHOULDERS	TON	160.0	160.0
	50100100		REMOVAL OF EXISTING STRUCTURES	EACH	1.0	1.0
	50200100		STRUCTURE EXCAVATION	CU YD	166.0	166.0
	50300225		CONCRETE STRUCTURES	CU YD	46.1	46.1
* DENOTES SPECIALTY ITEM						

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	5
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

LOCATION OF WORK: FAS 502 (LEVERETT RD.)

RURAL

MAJOR COLLECTOR

STA. 23+00.00 TO STA. 148+00.00

CHAMPAIGN COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0011

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	
	50500505		STUD SHEAR CONNECTORS	EACH	712.0	712.0
	50800205		REINFORCEMENT BARS, EPOXY COATED	POUND	43,510.0	43,510.0
	50800515		BAR SPLICERS	EACH	256.0	256.0
	51500100		NAME PLATES	EACH	1.0	1.0
	52200010		TEMPORARY SHEET PILING	SQ FT	953.0	953.0
	52200100		FURNISHING SOLDIER PILES (HP SECTION)	FOOT	1,192.0	1,192.0
	52200150		DRIVING SOLDIER PILES	FOOT	1,192.0	1,192.0
	52200250		UNTREATED TIMBER LAGGING	SQ FT	804.0	804.0
	54003000		CONCRETE BOX CULVERTS	CU YD	227.1	227.1
	59100100		GEOCOMPOSITE WALL DRAIN	SQ YD	35.0	35.0
	61100500		EXPLORATION TRENCH 52" DEPTH	FOOT	200.0	200.0
*	63000001		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	137.5	137.5
*	63000025		STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	87.5	87.5
*	63100167		TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3.0	3.0

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	6
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		

LOCATION OF WORK: FAS 502 (LEVERETT RD.)
RURAL
MAJOR COLLECTOR
STA. 23+00.00 TO STA. 148+00.00
CHAMPAIGN COUNTY

FUNDING BREAKOUT: 80% FEDERAL / 20% STATE

CONSTRUCTION TYPE CODE: 0011

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	
*	63100169		TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1.0	1.0
	63200310		GUARDRAIL REMOVAL	FOOT	452.0	452.0
	67000500		ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8.0	8.0
	67100100		MOBILIZATION	LSUM	1.0	1.0
	70106500		TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0	1.0
	70300100		SHORT TERM PAVEMENT MARKING	FOOT	80.0	80.0
	70300150		SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	20.0	20.0
	70300220		TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,000.0	2,000.0
	70400100		TEMPORARY CONCRETE BARRIER	FOOT	375.0	375.0
	70400200		RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275.0	275.0
	70600250		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0	2.0
	70600350		IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0	2.0
¥	72501000		TERMINAL MARKER - DIRECT APPLIED	EACH	4.0	4.0
*	72501100		TERMINAL MARKER - POST MOUNTED	EACH	2.0	2.0

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	7
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

LOCATION OF WORK:	FAS 502 (LEVERETT RD.)
	RURAL
	MAJOR COLLECTOR
	STA. 23+00.00 TO STA. 148+00.00
	CHAMPAIGN COUNTY
FUNDING BREAKOUT:	80% FEDERAL / 20% STATE
CONSTRUCTION TYPE CODE:	0011

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,000.0	2,000.0
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8.0	8.0
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	850.0	850.0
*	X6310176	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	2.0	2.0
*	X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25.0	25.0
	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1.0	1.0
	X7200201	WIDTH RESTRICTION SIGNING	LSUM	1.0	1.0
	XZ193400	SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	3.0	3.0
	Z0002900	BASE COURSE (OPTION)	SQ YD	60.0	60.0
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1.0	1.0
	Z0038700	PERMANENT BENCH MARKS	EACH	1.0	1.0
	Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	1.0	1.0

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* DENOTES SPECIALTY ITEM

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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

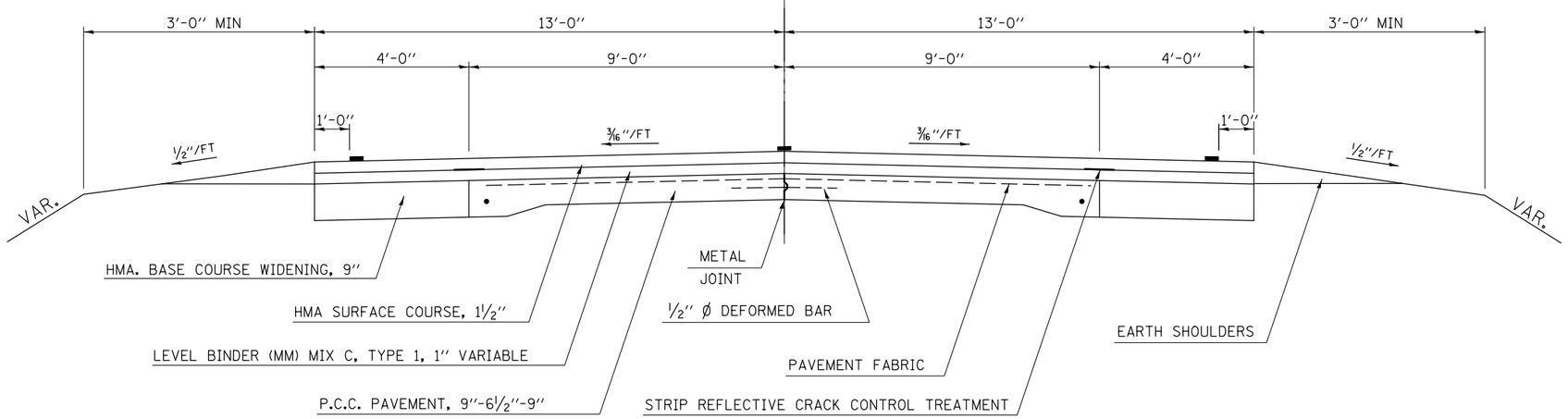
SCALE: | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	8
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

EXISTING TYPICAL CROSS SECTION (1)

NOTE: SLOPE VARIES FOR SUPERELEVATIONS IN CURVES
FROM STATION 12+04.27 TO STATION 145+05.10 AND
FROM STATION 147+40.82 TO STATION 166+58.86

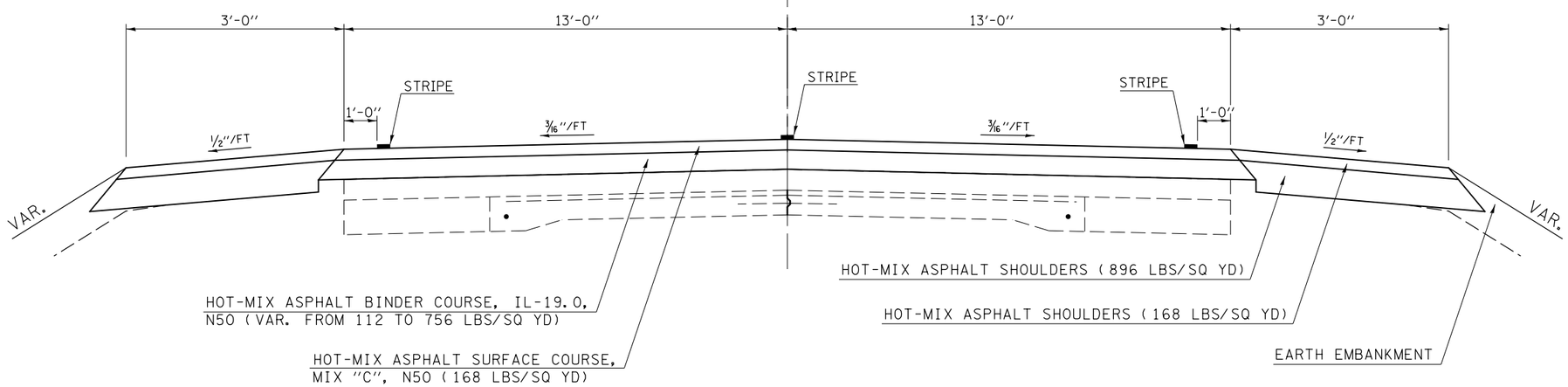
STATION	TO	STATION
23+00.00		23+76.50 (BK)
144+96.26 (AH)		145+49.00 (2)
(2) 146+30.00	℄	148+00.00



PROPOSED TYPICAL CROSS SECTION (1)

NOTE: SLOPE VARIES FOR SUPERELEVATIONS IN CURVES
FROM STATION 12+04.27 TO STATION 145+05.10 AND
FROM STATION 147+40.82 TO STATION 166+58.86

STATION	TO	STATION
23+00.00		23+76.50 (BK)
144+96.26 (AH)		145+49.00 (2)
(2) 146+30.00	℄	148+00.00



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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

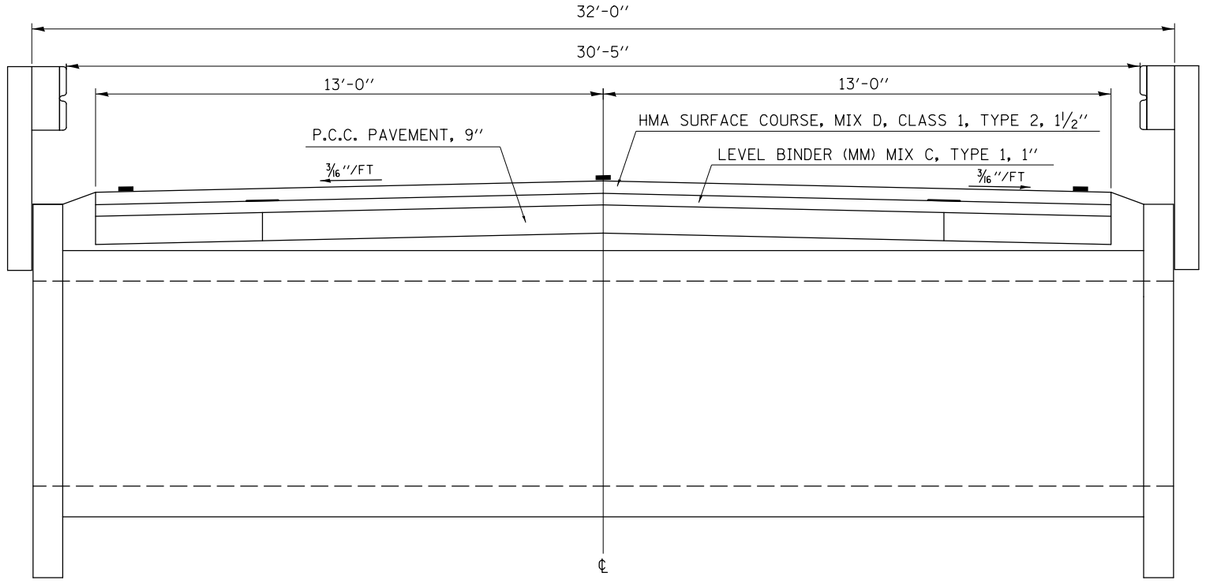
TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	9
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

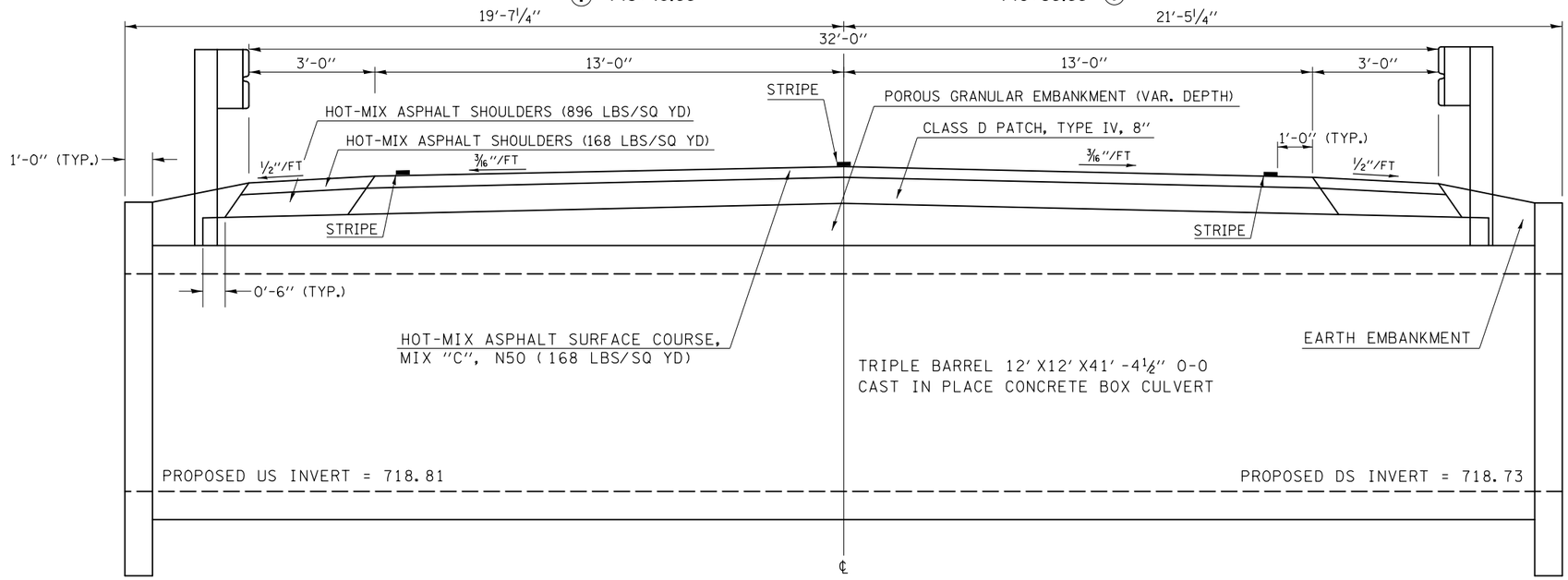
EXISTING TYPICAL CROSS SECTION (2)

STATION	TO	STATION
(1) 145+49.00		146+30.00 (1)



PROPOSED TYPICAL CROSS SECTION (2)

STATION	TO	STATION
(1) 145+49.00		146+30.00 (1)



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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	10
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

BITUMINOUS MATERIALS

DIRECTION	STA	TO	STA	SHLDR/ MAINLINE	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)	RATE OF APPLICATION (LBS/SQ YD)	BIT MATLS (PR CT) 40600275 (POUND)	BIT MATLS (TACK CT) 40600290 (POUND)
NB	23+00.00		23+76.50 (BK)	SHLDR	76.50	3.0	25.50	2.25	57.4	
NB	144+96.26 (AH)		148+00.00	SHLDR	303.74	3.0	101.25	2.25	227.8	
SB	23+00.00		23+76.50 (BK)	SHLDR	76.50	3.0	25.50	2.25	57.4	
SB	144+96.26 (AH)		148+00.00	SHLDR	303.74	3.0	101.25	2.25	227.8	
NB	145+49.00		146+30.00	MAINLINE	81.00	13.0	117.00	2.25	263.3	
SB	145+49.00		146+30.00	MAINLINE	81.00	13.0	117.00	2.25	263.3	
NB	23+00.00		23+34.26	MAINLINE	34.26	13.0	49.49	0.45		22.3
SB	23+00.00		23+34.26	MAINLINE	34.26	13.0	49.49	0.45		22.3
NB	23+34.26		23+76.50 (BK)	MAINLINE	42.24	13.0	61.01	0.675		41.2
SB	23+34.26		23+76.50 (BK)	MAINLINE	42.24	13.0	61.01	0.675		41.2
NB	144+96.26 (AH)		145+05.00	MAINLINE	8.74	13.0	12.62	0.675		8.5
SB	144+96.26 (AH)		145+05.00	MAINLINE	8.74	13.0	12.62	0.675		8.5
NB	145+05.00		145+49.00	MAINLINE	44.00	13.0	63.56	0.90		57.2
SB	145+05.00		145+49.00	MAINLINE	44.00	13.0	63.56	0.90		57.2
NB	145+49.00		146+30.00	MAINLINE	81.00	13.0	117.00	0.45		52.7
SB	145+49.00		146+30.00	MAINLINE	81.00	13.0	117.00	0.45		52.7
NB	146+30.00		146+75.00	MAINLINE	45.00	13.0	65.00	0.90		58.5
SB	146+30.00		146+75.00	MAINLINE	45.00	13.0	65.00	0.90		58.5
NB	146+75.00		147+52.25	MAINLINE	77.25	13.0	111.58	0.675		75.3
SB	146+75.00		147+52.25	MAINLINE	77.25	13.0	111.58	0.675		75.3
NB	147+52.25		148+00.00	MAINLINE	47.75	13.0	68.97	0.45		31.0
SB	147+52.25		148+00.00	MAINLINE	47.75	13.0	68.97	0.45		31.0
NB	23+00.00		23+76.50 (BK)	SHLDR	76.50	3.0	25.50	0.45		11.5
SB	23+00.00		23+76.50 (BK)	SHLDR	76.50	3.0	25.50	0.45		11.5
NB	144+96.26 (AH)		148+00.00	SHLDR	303.74	3.0	101.25	0.45		45.6
SB	144+96.26 (AH)		148+00.00	SHLDR	303.74	3.0	101.25	0.45		45.6
								TOTAL =	1096.9	807.4
								ROUND TO	1100.0	820.0

NOTE: RATE OF APPLICATION FOR PRIME COAT = 0.25 LB/SQ FT x 9 (SQ FT/ SQ YD) = 2.25 LB/SQ YD
RATE OF APPLICATION FOR TACK COAT = 0.05 LB/SQ FT ON MILLED OR EXISTING SURFACES = 0.05 LB/SQ FT x 9 (SQ FT/SQ YD) = 0.45 LB/SQ YD
RATE OF APPLICATION FOR TACK COAT = 0.025 LB/SQ FT ON NEW HMA SURFACES = 0.025 LB/SQ FT x 9 (SQ FT/SQ YD) = 0.225 LB/SQ YD

TEMPORARY RAMPS & AGGREGATE SURFACE COURSE B

DIRECTION	STA	TO	STA	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)	DEPTH (")	VOLUME (CU YD)	AGG SURF CSE B 40200800 (TON)	TEMPORARY RAMP 40600990 (SQ YD)
NB	23+09.55			(MEASURED IN CADD)		37.6	6.0	6.3	11.3	
SB	23+33.96			(MEASURED IN CADD)		124.5	6.0	20.8	37.4	
SB	146+94.72			(MEASURED IN CADD)		58.4	6.0	9.7	17.5	
NB	147+02.81			(MEASURED IN CADD)		58.4	6.0	9.7	17.5	
NB MAIN	23+00.00		23+05.00	5.0	13.0	7.2				7.2
NB SHLDR	23+00.00		23+05.00	5.0	3.0	1.7				1.7
SB MAIN	23+00.00		23+05.00	5.0	13.0	7.2				7.2
SB SHLDR	23+00.00		23+05.00	5.0	3.0	1.7				1.7
NB MAIN	147+95.00		148+00.00	5.0	13.0	7.2				7.2
NB SHLDR	147+95.00		148+00.00	5.0	3.0	1.7				1.7
SB MAIN	147+95.00		148+00.00	5.0	13.0	7.2				7.2
SB SHLDR	147+95.00		148+00.00	5.0	3.0	1.7				1.7
								TOTAL =	83.7	35.6
								ROUND TO	90.0	40.0

HMA PATCHING

DIRECTION	STA	TO	STA	LENGTH (FOOT)	WIDTH (FOOT)	CL D PATCH TYPE 4 8" 44201747 (SQ YD)
NB	145+49.00		146+30.00	81.0	10.79	97.1
SB	145+49.00		146+30.00	81.0	15.46	139.1
					TOTAL =	236.3
					ROUND TO	240.0

REMOVAL

DIRECTION	STA	TO	STA	LENGTH (FOOT)	WIDTH (FOOT)	HMA SURF REM BUTT JT 40600982 (SQ YD)	DRIVE PAVEMENT REM 44000200 (SQ YD)	PAVED SHLD REMOVAL 44004250 (SQ YD)
NB & SB	23+00.00		23+17.29	(MEASURED IN CADD)		52.6		
NB & SB	147+71.39		148+00.00	(MEASURED IN CADD)		87.9		
NB	23+09.55			(MEASURED IN CADD)			14.1	
SB	23+33.96			(MEASURED IN CADD)			18.3	
NB	147+02.81			(MEASURED IN CADD)			21.1	
SB	23+40.00		23+76.50 (BK)	36.50	2.0			8.1
SB	144+96.26 (AH)		147+20.00	223.74	2.0			49.7
					TOTAL =	140.5	53.5	57.8
					ROUND TO	145.0	55.0	60.0

NOTE: REMOVAL OF BASE COURSE (OPTION) TO BE PAID AS PAVED SHOULDER REMOVAL.

SURVEY MARKERS

STA	OFFSET	TYPE	SURVEY MARKER T2 SPL XZ193400 (EACH)
23+20.63	CL	P.T.	1.0
23+76.50 BK = 144+96.26 AH	CL	STA. EQUA. P.I. KINK	1.0
147+41.01	CL	T.S.	1.0
		TOTAL =	3.0

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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	11
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

HMA PAVING & BASE COURSE OPTION (MAINLINE)

DIRECTION	STATION	TO	STATION	LENGTH (FOOT)	AVE. SURFACE WIDTH (FOOT)	AVE. BINDER WIDTH (FOOT)	SURFACE AREA (SQ YD)	BINDER AREA (SQ YD)	AVE. BINDER DEPTH (INCH)	AVE. SURFACE DEPTH (INCH)	HMA BINDER COURSE IL-19.0, N50 40603080 (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 40603310 (TON)
NB	23+00.00		23+34.26	34.26	13.0		49.5			2.0		5.5
NB	23+34.26		23+76.50 (BK)	42.24	13.0	13.22	61.0	62.05	2.46	1.5	8.5	5.1
NB	144+96.26 (AH)		145+20.00	23.74		13.315		35.12	4.74		9.3	
NB	144+96.26 (AH)		147+52.25	255.99	13.0		369.8			1.5	0.0	31.1
NB	145+20.00		145+49.00	29.00		13.38		43.11	6.24		15.1	
NB	146+30.00		146+40.00	10.00		13.37		14.86	5.88		4.9	
NB	146+40.00		146+80.00	40.00		13.33		59.24	5.04		16.7	
NB	146+80.00		147+20.00	40.00		13.27		58.98	3.60		11.9	
NB	147+20.00		147+52.25	32.25		13.20		47.30	1.86		4.9	
NB	147+52.25		148+00.00	47.75	13.0		68.97			2.0		7.7
SB	23+00.00		23+34.26	34.26	13.0		49.5			2.0		5.5
SB	23+34.26		23+76.50 (BK)	42.24	13.0	13.22	61.01	62.05	2.46	1.5	8.5	5.1
SB	144+96.26 (AH)		145+20.00	23.74		13.315		35.12	4.74		9.3	
SB	144+96.26 (AH)		147+52.25	255.99	13.0		369.76			1.5		31.1
SB	145+20.00		145+49.00	29.00		13.38		43.11	6.24		15.1	
SB	146+30.00		146+40.00	10.00		13.37		14.86	5.88		4.9	
SB	1146+40.00		146+80.00	40.00		13.33		59.24	5.04		16.7	
SB	146+80.00		147+20.00	40.00		13.27		58.98	3.60		11.9	
SB	147+20.00		147+52.25	32.25		13.20		47.30	1.86		4.9	
SB	147+52.25		148+00.00	47.75	13.0		68.97			2.0		7.7
										TOTAL =	142.7	98.9
										ROUND TO	150.0	100.0

HMA PAVING & BASE COURSE OPTION (SHOULDER)

DIRECTION	STATION	TO	STATION	THICKNESS (INCHES)	(A) LENGTH (FOOT)	(B) AVE. WIDTH (FOOT)	(C) AREA (SQ YD)	HOT-MIX ASPHALT SHOULDERS 48203100 (TON)	BASE COURSE (OPTION) Z0002900 (SQ YD)
NB	23+00.00		23+76.50 (BK)	9.5	76.50	3.40	28.90	15.4	
NB	144+96.26 (AH)		148+00.00	9.5	303.74	3.40	114.75	61.0	
SB	23+00.00		23+76.50 (BK)	9.5	76.50	3.4	28.90	15.4	
SB	23+40.00		23+76.50 (BK)	9.0	36.50	2.0	8.11		8.1
SB	144+96.26 (AH)		147+20.00	9.0	223.74	2.0	49.72		49.7
SB	144+96.26 (AH)		148+00.00	9.5	303.74	3.4	114.75	61.0	
							TOTAL =	152.8	57.8
							ROUND TO	160.0	60.0

HMA PAVING & BASE COURSE OPTION (SUMMARY)

LOCATION:	HMA BINDER COURSE IL-19.0, N50 40603080 (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 40603310 (TON)	HMA SHOULDERS 48203100 (TON)	BASE COURSE (OPTION) Z0002900 (SQ YD)
MAINLINE	142.7	98.9		
SHOULDERS			152.8	57.8
TOTAL =	142.7	98.9	152.8	57.8
ROUND TO	150.0	100.0	160.0	60.0

SCHEDULE OF QUANTITIES

EARTHWORK

LOCATION	EARTH EXCAVATION 20200100 (CU YD)	STRUCTURE EXCAVATION 50200100 (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	FURNISHED EXCAVATION 20400800 (CU YD)
LEFT SIDE	14.0	0.0	10.5	96.0	-85.5	85.5
RIGHT SIDE	16.0	0.0	12.0	50.0	-38.0	38.0
BASE COURSE (OPTION)	13.0	0.0	9.8	0.0	9.8	-9.8
BOX CULVERT (O/S STR EX)	290.4	0.0	217.8	0.0	217.8	-217.8
STRUCTURE	0.0	166.0	124.5	0.0	124.5	-124.5
TOTAL =	333.4	166.0	374.6	146.0	228.6	-228.6
ROUNDED TO:	335.0	166.0				0.0

NOTES:
1. THE SHRINKAGE FACTOR USED IS 25%.
2. SHRINKAGE, EMBANKMENT, AND BALANCE IS FOR INFORMATION ONLY.
3. NO PAYMENT WILL BE ALLOWED FOR OVERHAUL.
4. EXCAVATION REQUIRED FOR BITUMINOUS SHOULDERS IS MEASURED AND PAID FOR AS EARTH EXCAVATION.
5. STRUCTURE EXCAVATION QUANTITIY IS FOR SOLDIER PILE WINGWALLS ONLY.

EROSION CONTROL

STA	TO	STA	OFFSET	PERIMETER EROSION BARRIER 28000400 (FOOT)	INLET & PIPE PROTECTION 28000500 (EACH)
22+81.88		23+01.88	40.3'-40.0' RT	20.0	
22+85.24			32.5' RT		1.0
23+14.51			45.1' LT		1.0
23+14.89		145+44.04	40.0' RT	110.0	
146+15.10		146+95.10	40.0' RT	80.0	
147+11.10		147+31.10	40.0' RT	20.0	
146+16.72		146+86.72	40.0' LT	70.0	
147+02.72		147+52.72	40.0' LT	50.0	
147+31.07			32.2' RT		1.0
147+50.13			30.1' LT		1.0
			TOTAL =	350.0	4.0

GUARDRAIL

OFFSET	STA	TO	STA	SPBGR TY A 6 FT POSTS 63000001 (FOOT)	SPBGR ATTACH TO STR 63000025 (FOOT)	TR BAR TRM T1 SPL TAN 63100167 (EACH)	TR BAR TRM T1 SPL FLR 63100169 (EACH)	GUARDRAIL REMOV 63200310 (FOOT)	GUARDRAIL REFL, TYPE A 78200005 (EACH)	TERMINAL MARKER - DA 72501000 (EACH)	TERMINAL MARKER - PM 72501100 (EACH)	TRAF BAR TERM T2 SPL X6310176 (EACH)	SPBGR (SHORT RADIUS) X6330725 (FOOT)
RT	23+22.91		23+72.89				1.0						
RT	23+72.89		145+67.63	75.0									
RT	`145+67.63		146+11.38		43.75								
RT	146+11.38		146+17.63	6.25									
RT	146+17.63		146+67.63			1.0							
LT	145+17.63		145+67.63			1.0							
LT	145+67.63		146+11.37		43.75								
LT	146+11.37		146+67.62	56.25									
LT	146+67.62		146+78.89										12.5
LT	146+78.89		146+83.62									1.0	
LT	147+05.81		147+10.54									1.0	
LT	147+10.54		147+21.81										12.5
LT	147+21.81		147+71.79			1.0							
RT	23+36.74		146+82.50					226.0					
LT	144+93.05		147+19.05					226.0					
LT	145+65.96								1.0				
LT	146+16.79								1.0				
LT	146+67.62								1.0				
LT	147+20.96								1.0				
RT	23+72.91								1.0				
RT	145+36.41								1.0				
RT	145+80.15								1.0				
RT	146+23.89								1.0				
RT	23+22.91									1.0			
LT	145+17.63									1.0			
RT	146+67.63									1.0			
LT	147+71.79									1.0			
LT	146+67.62										1.0		
LT	147+21.81										1.0		
			TOTAL =	137.5	87.5	3.0	1.0	452.0	8.0	4.0	2.0	2.0	25.0

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		DRAWN -	REVISED -
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	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

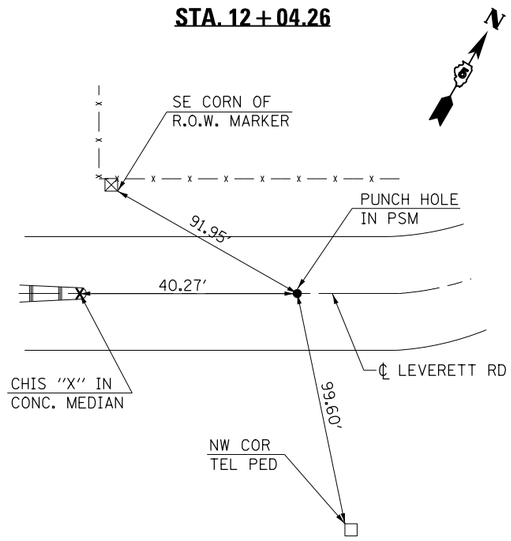
SCHEDULE OF QUANTITIES

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

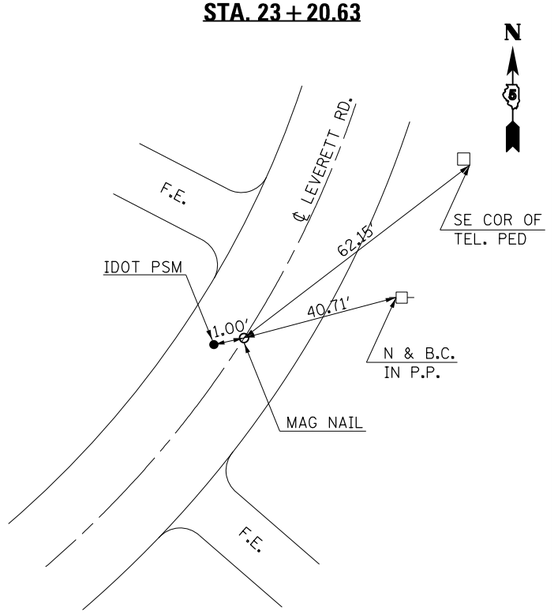
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	13
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		

ALIGNMENTS, TIE POINTS AND BENCHMARKS

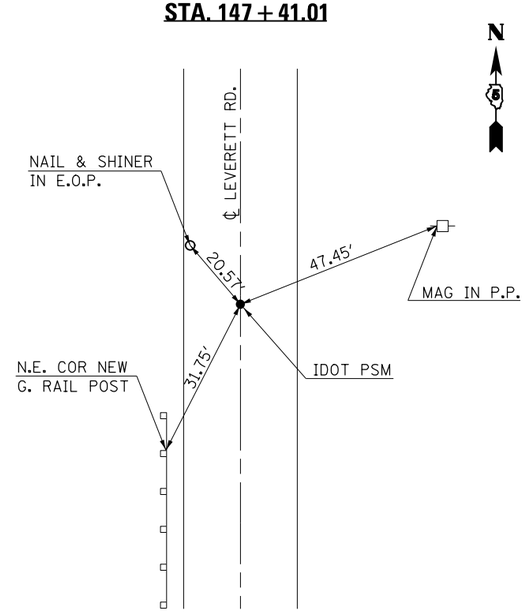
PC #16
STA. 12 + 04.26



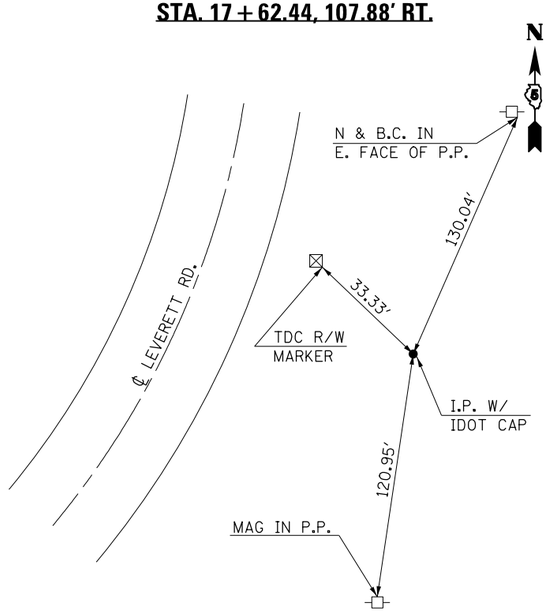
PT #17
STA. 23 + 20.63



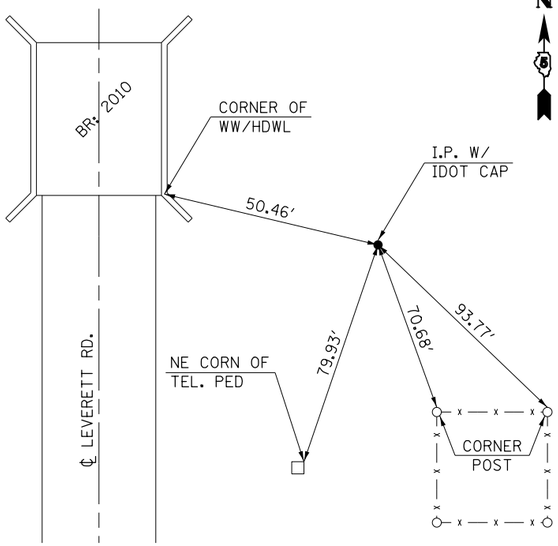
T.S. #12
STA. 147 + 41.01



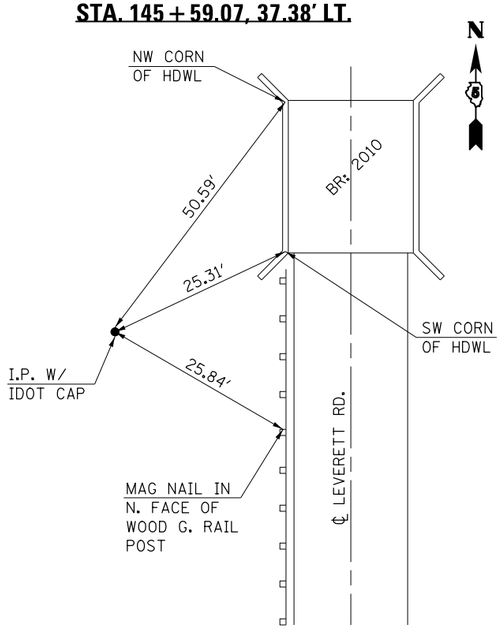
T.S. #1 & P.I.
STA. 17 + 62.44, 107.88' RT.



T.S. #400
STA. 145 + 63.96, 65.24' RT.



T.S. #401
STA. 145 + 59.07, 37.38' LT.



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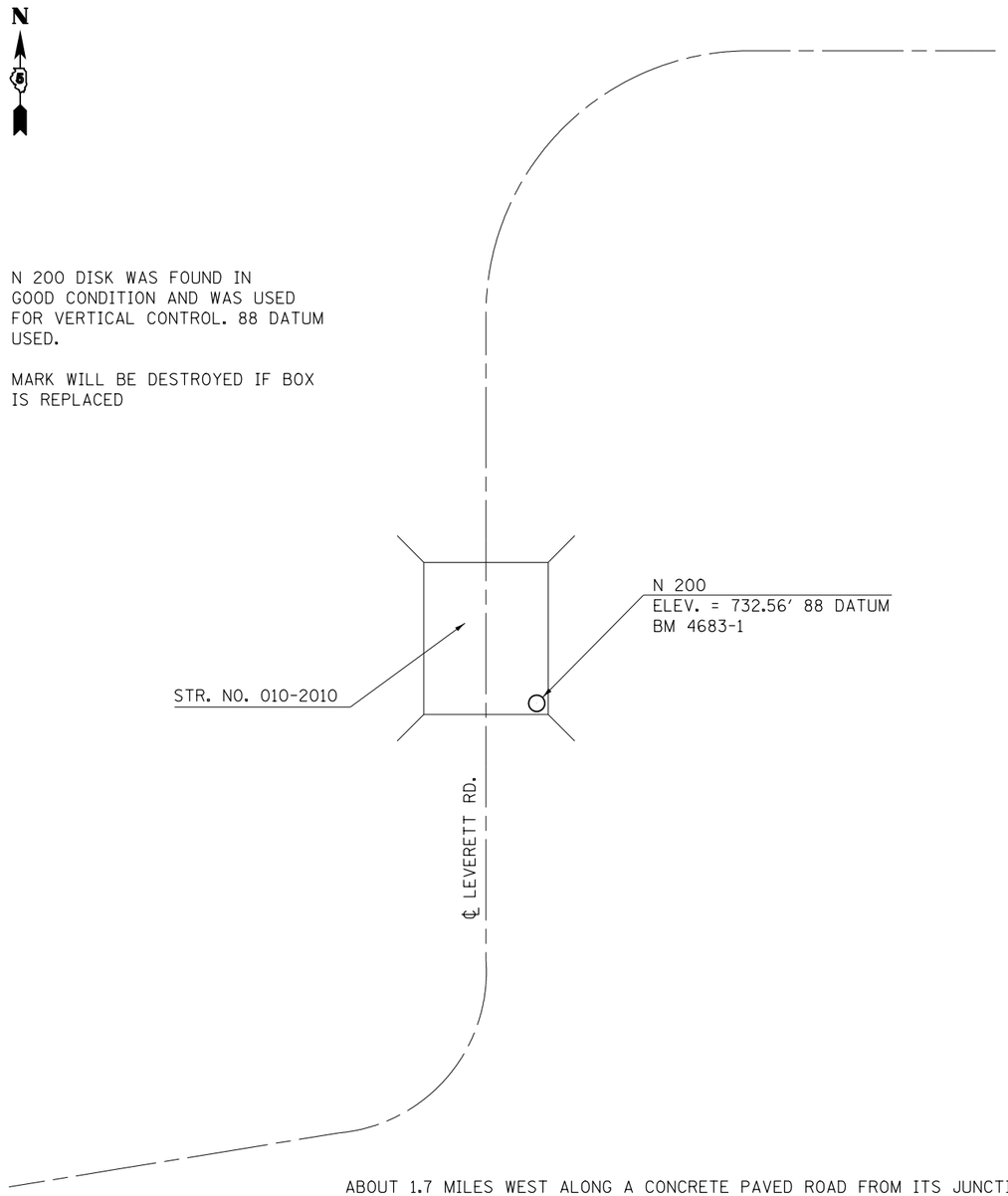
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIE POINTS, AND BENCHMARKS

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

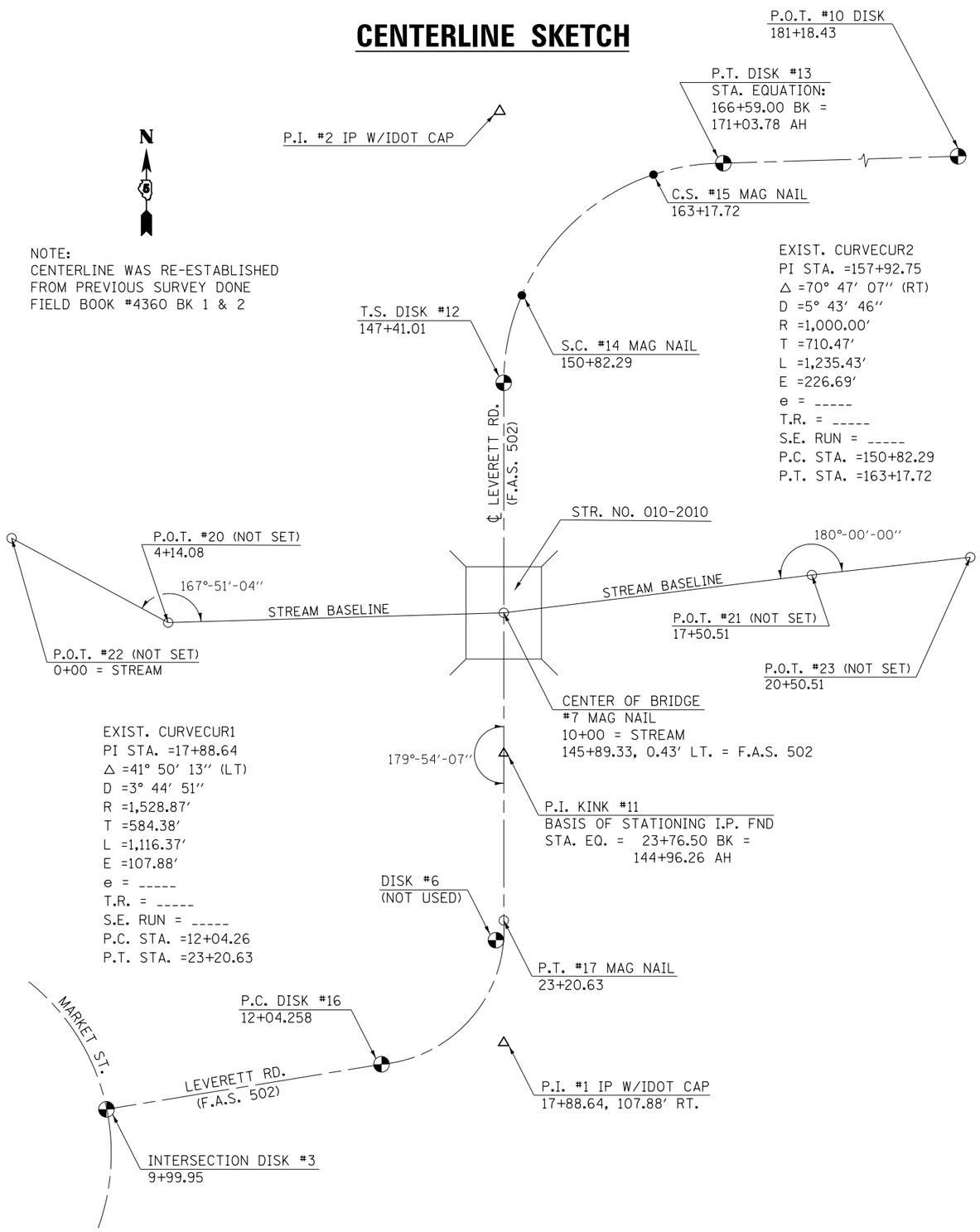
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	14
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

LEVEL LINE SKETCH
B.M. 4683–1



ABOUT 1.7 MILES WEST ALONG A CONCRETE PAVED ROAD FROM ITS JUNCTION WITH THE ILLINOIS CENTRAL RAILROAD IN LEVERETT, ABOUT 0.3 MILES SOUTH OF AN EAST-WEST OILED ROAD CROSSING, SET IN THE TOP OF THE SOUTH END OF THE EAST HEADWALL OF A 30-FOOT TRIPLE OPENING CONCRETE CULVERT, 14 FEET EAST OF THE CENTER LINE OF THE ROAD, 35 FEET NORTH OF THE CENTER LINE OF A FARM ROAD EAST, ABOUT ½ FOOT ABOVE THE LEVEL OF THE ROAD.

CENTERLINE SKETCH



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIE POINTS, AND BENCHMARKS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	15
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

SEC 24, T 20 N, R 8 E, 3RD PM

EX. ROW 75' LT

CULVERT REPLACEMENT
PROPOSED S.N. 010-2037 AT STA. 145+89.50
TRIPLE 12' X 12' CAST IN PLACE CONCRETE
BOX CULVERT WITH SOLDIER PILE WINGWALLS

EXISTING S.N. 010-2010 AT STA. 145+89.50
TRIPLE 10' X 11' REINFORCED CONCRETE BOX CULVERT

+93.98
75.0' LT

+93.95
40.0' LT

+33.96
16.0' AGG FE

+94.72
16.0' AGG FE

RADIUS POINT
23+07.60 37.5' LT.
R = 25.0'

RADIUS POINT
23+75.04 36.5' LT.
R = 25.0'

RADIUS POINT
146+61.72 37.0' LT.
R = 25.0'

RADIUS POINT
147+27.72 37.0' LT.
R = 25.0'

SECTION 106BR-1(1)
BEGINS STA. 23+00.00

+17.29
PT Sta 23+20.63

PT Sta 144+96.26

+49.00

+30.00

PT Sta 147+41.01

EX. ROW 40' LT

22 CL FAS 502 (LEVERETT ROAD)

23

88.1230°

78.5075°

13.0'

145+00

PT Sta 10+00.00

90.0000°

147

89.5817°

148

149

SECTION 106BR-1(1)
ENDS STA. 148+00.00

+71.39

EX. ROW VAR FROM
19+94.35 75.0' RT TO
23+20.63 40.0' RT

EQUATION
23+76.50 BK =
144+96.26 AH

EX. ROW 40' RT.

EX. ROW 40' RT

RADIUS POINT
22+87.48 26.7' RT.
R = 15.0'

RADIUS POINT
23+29.87 28.2' RT.
R = 15.0'

RADIUS POINT
146+70.08 37.2' RT.
R = 25.0'

RADIUS POINT
147+36.08 36.8' RT.
R = 25.0'

+09.55
13.0' AGG FE

+02.81
16.0' AGG FE

STATION EQUATION
23+76.50 BK =
144+96.26 AH

REMOVE UTILITY CONDUIT ON EAST SIDE OF SN 010-2010
TO BE INCLUDED WITH STRUCTURE REMOVAL

HMA SURFACE REMOVAL - BUTT JOINT

CLASS D PATCH, TYPE 4, 8"

SEC 19, T 20 N, R 9 E, 3RD PM

VPI STA. 145+68.25
ELEVATION 733.35

VPI STA. 146+10.75
ELEVATION 733.35

732.85

732.60

+0.34%

+0.34%

+0.00%

+0.00%

-0.40%

D.H.W. ELEV. = 730.40

E.W.S. ELEV. = 724.35

732.63
733.10

734	732	730	728	726	724	722	720	718
733.07	733.02	732.96	732.91	732.85 **732.85**	732.78 **732.93**	732.71 **733.02**	732.62 **733.12**	732.61 **733.20**	732.59 **733.29**	732.60 **733.35**	732.66 **733.35**	732.64 **733.29**	732.63 **733.19**	732.59 **733.10**	732.56 **733.00**	732.57 **732.90**	732.58 **732.80**	732.59 **732.70**	732.60 **732.60**	732.61	732.62	732.63	732.64

22+00 22+50 23+00 23+50 145+00 145+50 146+00 146+50 147+00 147+50 148+00 148+50 149+00

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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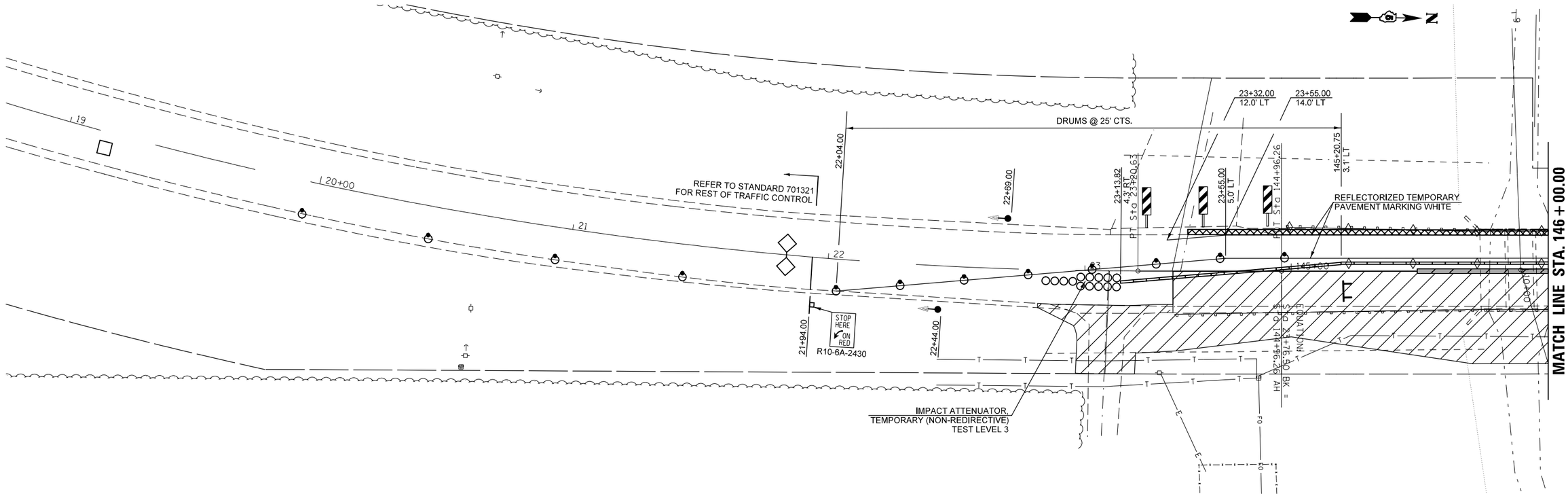
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEET

SCALE: | SHEET 1 OF 1 SHEETS | STA. 22+00 | TO STA. 149+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	16
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			



NOTES:

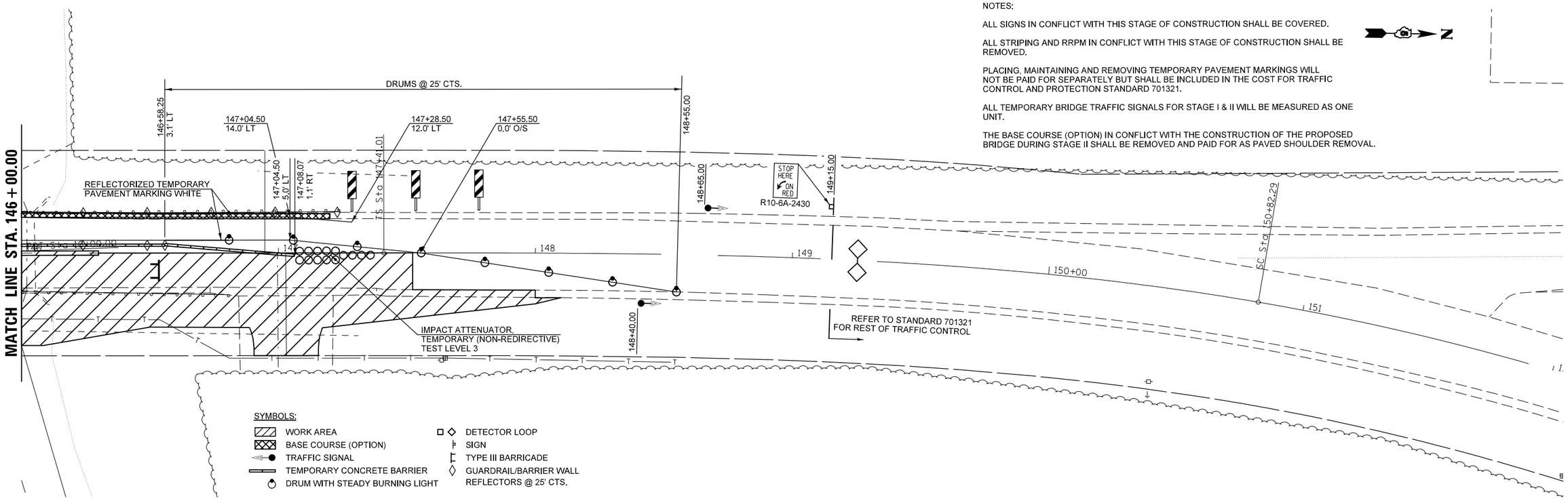
ALL SIGNS IN CONFLICT WITH THIS STAGE OF CONSTRUCTION SHALL BE COVERED.

ALL STRIPING AND RRPM IN CONFLICT WITH THIS STAGE OF CONSTRUCTION SHALL BE REMOVED.

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.

ALL TEMPORARY BRIDGE TRAFFIC SIGNALS FOR STAGE I & II WILL BE MEASURED AS ONE UNIT.

THE BASE COURSE (OPTION) IN CONFLICT WITH THE CONSTRUCTION OF THE PROPOSED BRIDGE DURING STAGE II SHALL BE REMOVED AND PAID FOR AS PAVED SHOULDER REMOVAL.



SYMBOLS:

- WORK AREA
- BASE COURSE (OPTION)
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING LIGHT
- DETECTOR LOOP
- SIGN
- TYPE III BARRICADE
- GUARDRAIL/BARRIER WALL REFLECTORS @ 25' CTS.

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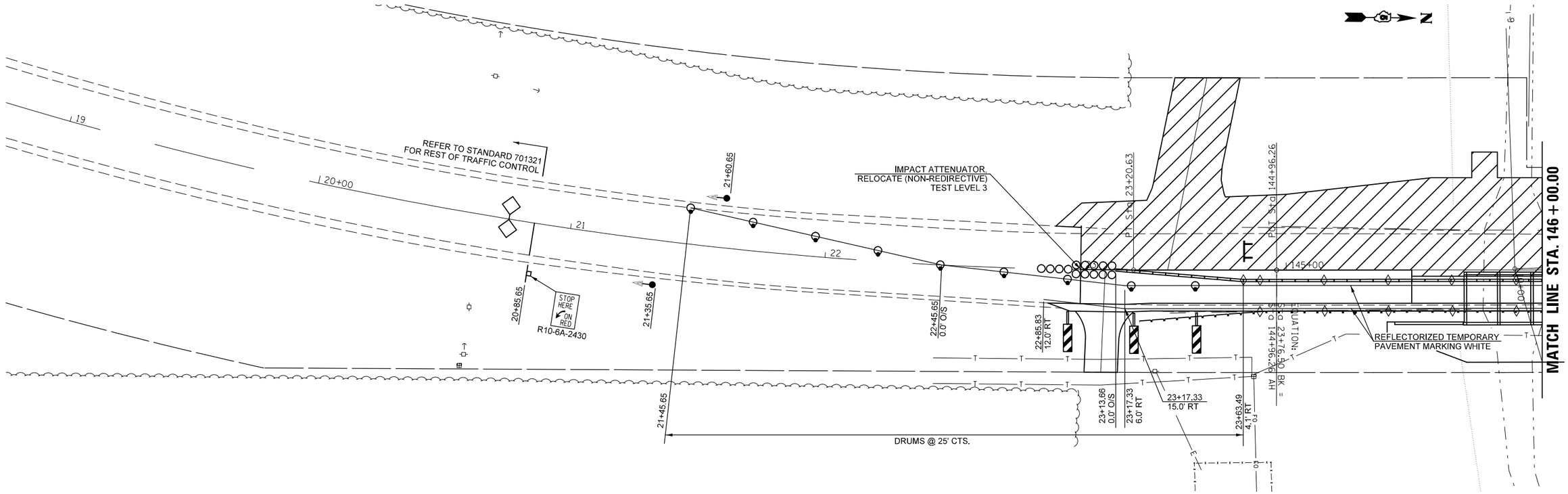
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 1 F.A.S. ROUTE 502

SCALE: | SHEET 1 OF 1 SHEETS | STA. 19+00.00 | TO STA. 152+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	17
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		



NOTES:

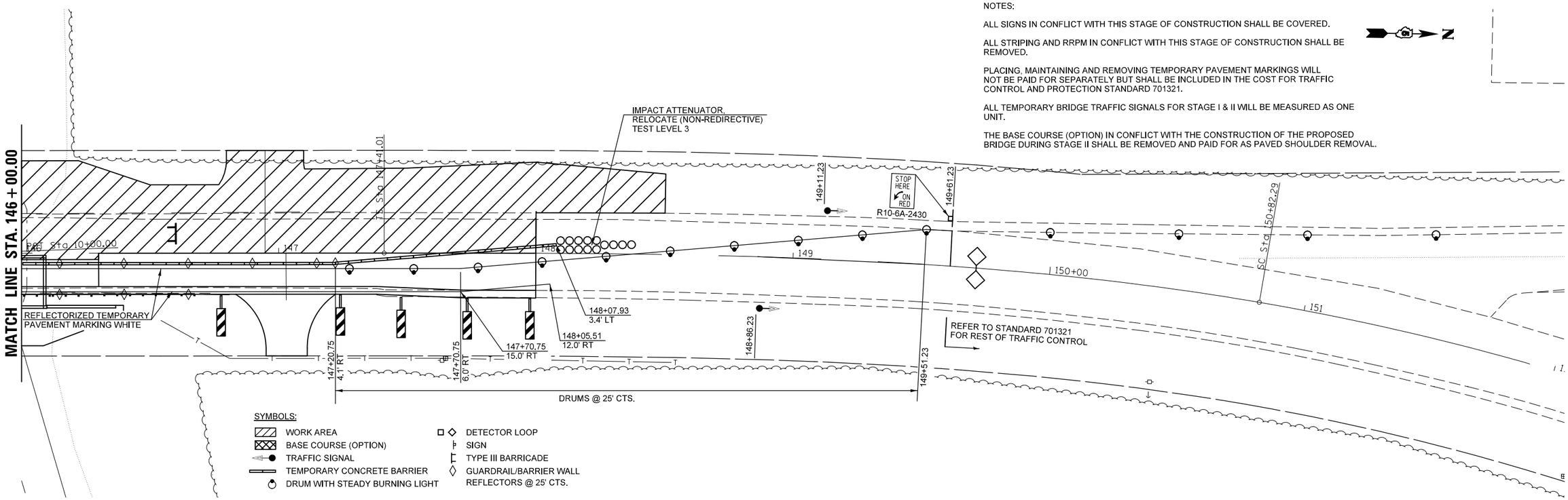
ALL SIGNS IN CONFLICT WITH THIS STAGE OF CONSTRUCTION SHALL BE COVERED.

ALL STRIPING AND RRPM IN CONFLICT WITH THIS STAGE OF CONSTRUCTION SHALL BE REMOVED.

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.

ALL TEMPORARY BRIDGE TRAFFIC SIGNALS FOR STAGE I & II WILL BE MEASURED AS ONE UNIT.

THE BASE COURSE (OPTION) IN CONFLICT WITH THE CONSTRUCTION OF THE PROPOSED BRIDGE DURING STAGE II SHALL BE REMOVED AND PAID FOR AS PAVED SHOULDER REMOVAL.



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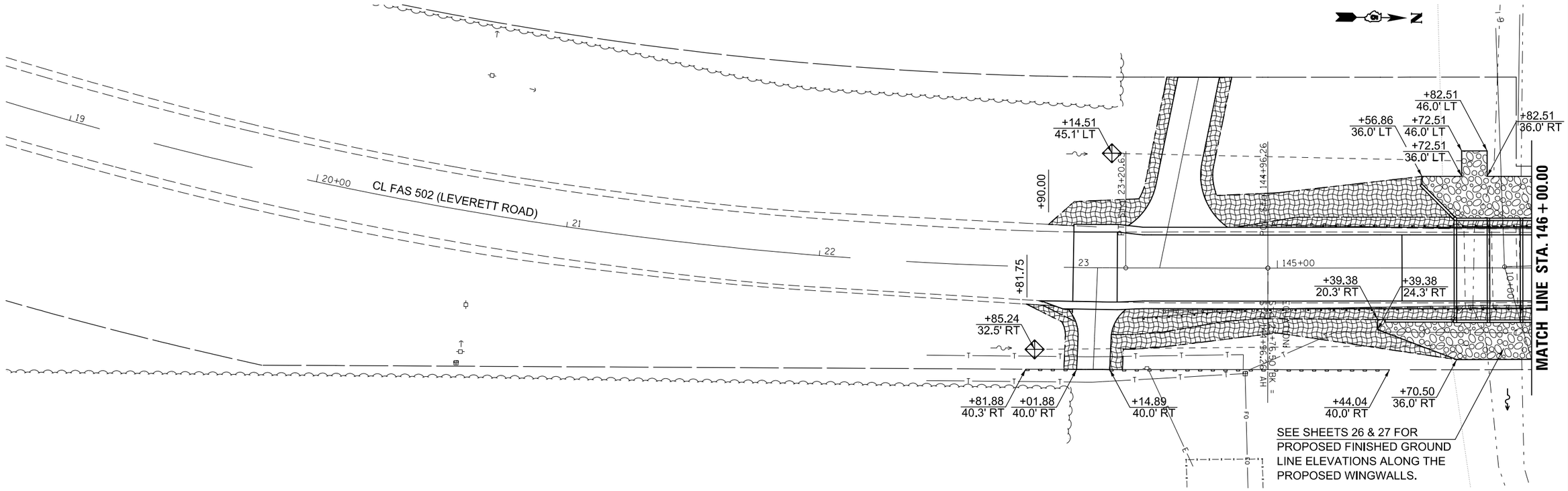
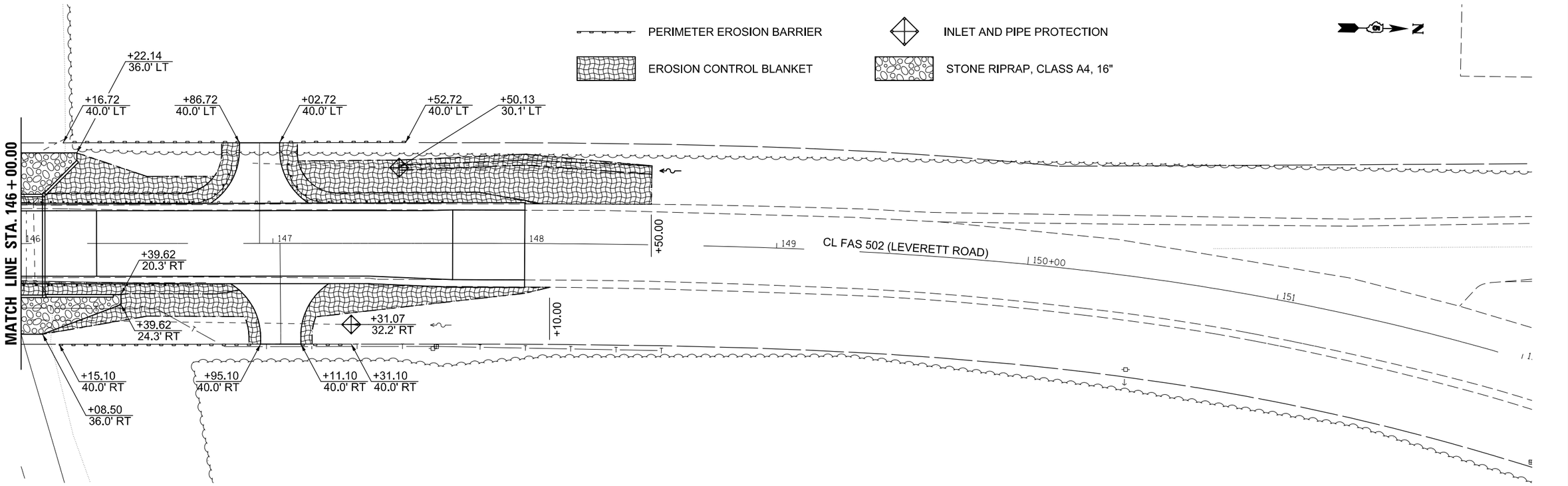
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 2 F.A.S. ROUTE 502

SCALE: | SHEET 1 OF 1 SHEETS | STA. 19+00.00 TO STA. 152+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	18
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		





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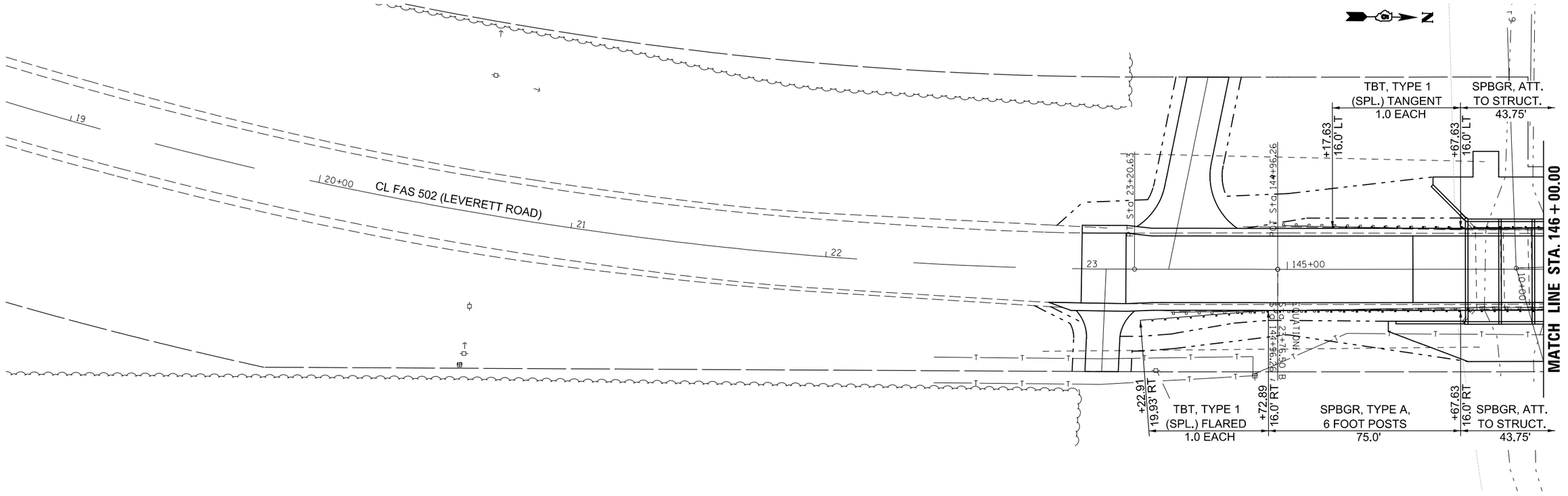
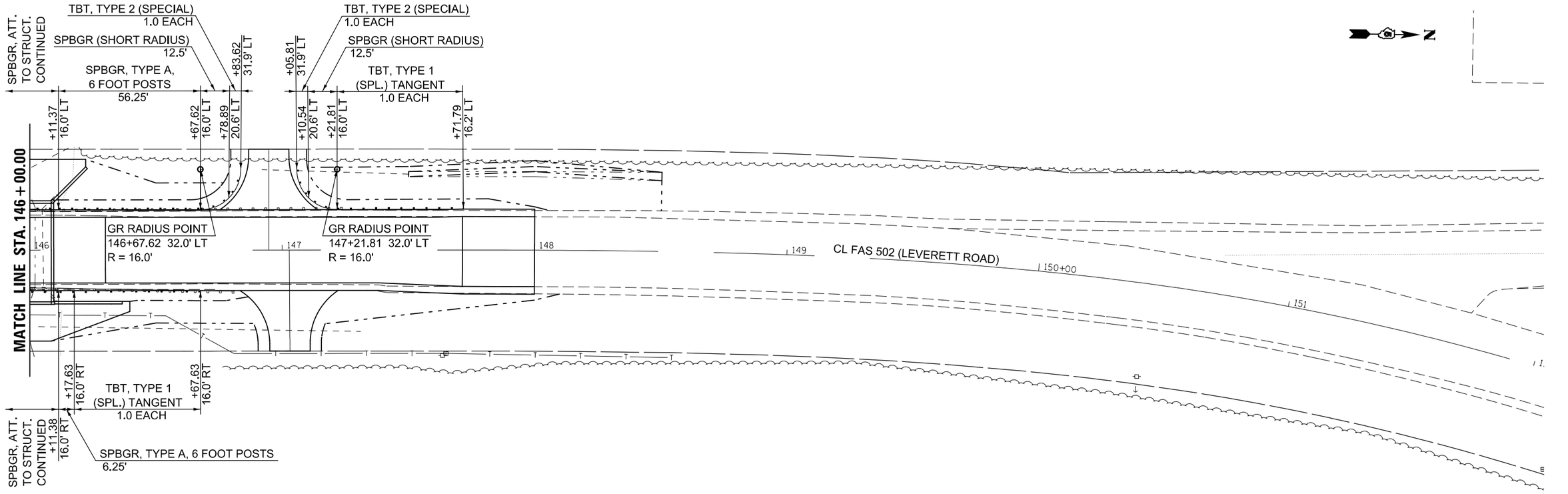
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN SHEET

SCALE: | SHEET 1 OF 1 SHEETS | STA. 19+00.00 | TO STA. 151+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	19
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL PLAN SHEET

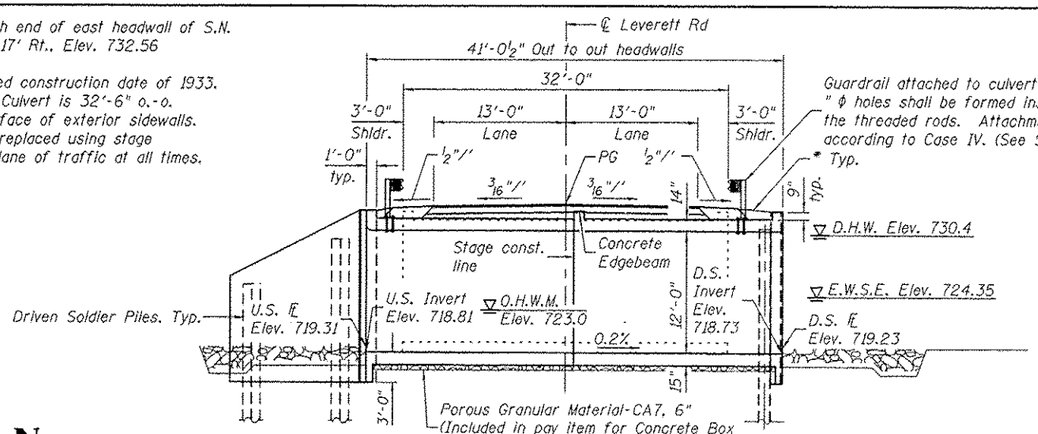
SCALE: | SHEET 1 OF 1 SHEETS | STA. 19+00.00 | TO STA. 151+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	20
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		

Benchmark: 4683-1. Stamped disk on south end of east headwall of S.N. 010-2010; Sta. 145+74.31, 15.17' Rt., Elev. 732.56

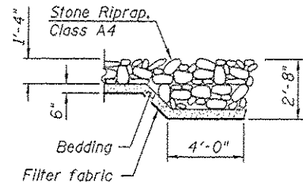
Existing Structure: S.N. 010-2010 has an estimated construction date of 1933. The 10'x11' Triple Barrel CIP Culvert is 32'-6" o.-o. headwalls and 35'-3" face - face of exterior sidewalls. Structure to be removed and replaced using stage construction, maintaining one lane of traffic at all times.

Salvage: None

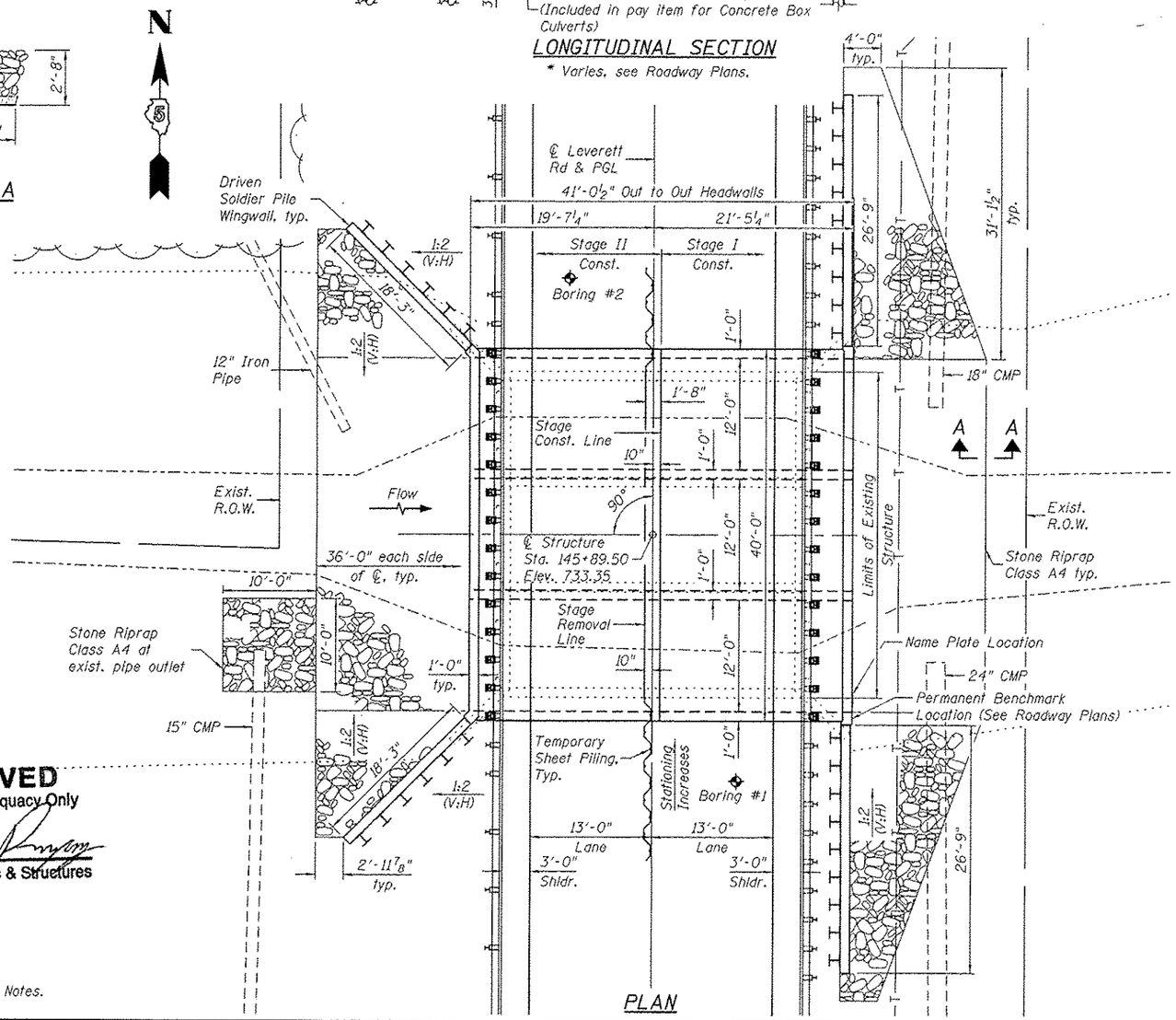


LONGITUDINAL SECTION

* Varies, see Roadway Plans.



SECTION A-A



PLAN

Note:
See Sheet 2 of 12 for General Notes.

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

WATERWAY INFORMATION

Drainage Area = 8.3 sq. mi.
Exist. Low Grade Elev. 732.6 @ Sta. 147+00
Prop. Low Grade Elev. 732.6 @ Sta. 148+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1280	282	385	730.0	0.8	0.7	730.8	730.7
Design	30	1846	294	399	730.4	1.5	1.2	731.9	731.6
Base	100	2480	306	414	730.8	2.5	2.1	733.3	732.9
Overtop Exist.	45	2055	297		730.5	2.1		732.6	
Overtop Prop.	80	2367		410	730.7		2.0		732.7

INDEX OF SHEETS

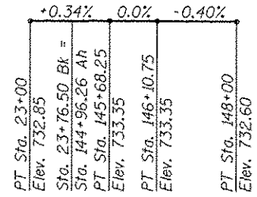
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	420
Stone Riprap, Class A4	Sq. Yd.	230
Filter Fabric	Sq. Yd.	230
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	166
Concrete Structures	Cu. Yd.	46.1
Stud Shear Connectors	Each	712
Reinforcement Bars, Epoxy Coated	Pound	43510
Bar Splicers	Each	256
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	953
Furnishing Soldier Piles (HP Section)	Foot	1192
Driving Soldier Piles	Foot	1192
Untreated Timber Lagging	Sq. Ft.	804
Concrete Box Culverts	Cu. Yd.	227.1
Geocomposite Wall Drain	Sq. Yd.	35
Temporary Support System	Each	1

Quantity of Structure Excavation is for soldier pile wingwalls only.

LICENSED STRUCTURAL ENGINEER
CHRIS LINNEMAN
081-006445
STATE OF ILLINOIS

Signed: _____
Date: 2/26/2016
License Expires: 11/30/2016



PROFILE GRADE

Along ℄ Roadway

STATION 145+89.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 502
SEC. 106BR-1(1)
LOADING HL-93
STRUCTURE NO. 010-2037

NAME PLATE

See Std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

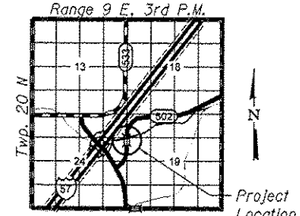
DESIGN SPECIFICATIONS

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

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Soldier Piles)
AASHTO M270 Grade 36



LOCATION SKETCH

GENERAL PLAN & ELEVATION
LEVERETT ROAD OVER TRIBUTARY OF SALINE BRANCH
F.A.S. RTE. 502 - SEC. 106BR-1(1)
CHAMPAIGN COUNTY
STATION 145+89.50
STRUCTURE NO. 010-2037

PRINT DATE: 2/26/2016 8:23:37 AM Y:\10053.04 IDOT D5 Leverett Road\DGN\Bridge\Final\Plotsheets\010-2037-001-GeneralPlan and Elevation.dgn

EFK • Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

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	CHECKED - CTW	REVISED -	
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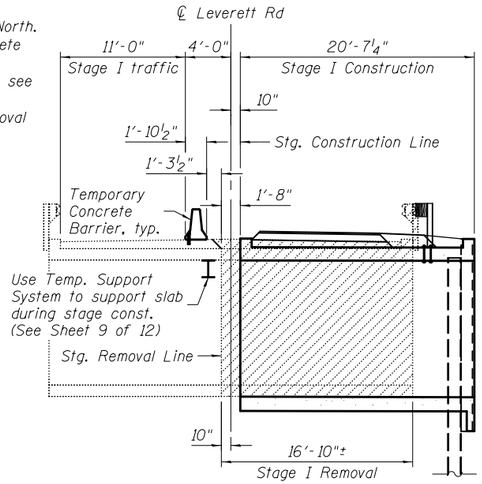
PLOT DATE = 2/26/2016	DATE - 2/26/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

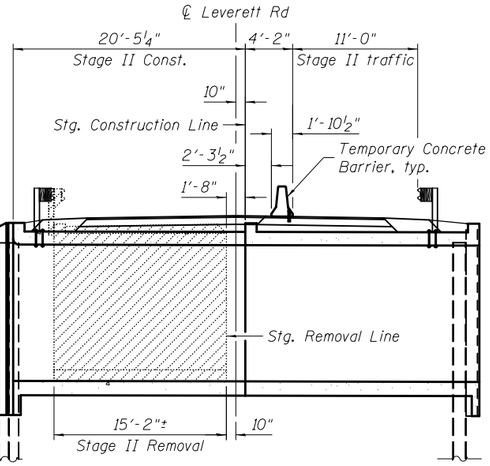
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 010-2037
SHEET NO. 1 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	21
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		

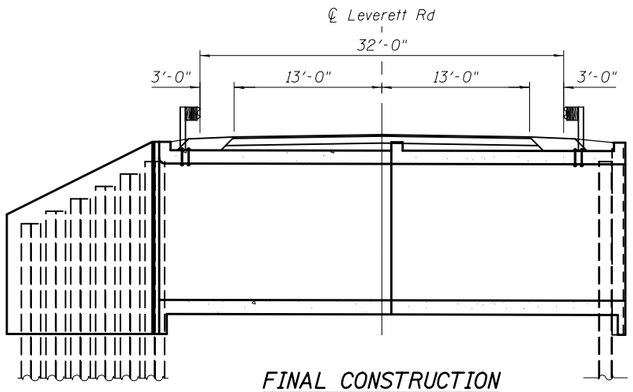
Notes:
All staging sections are looking North.
For quantity of Temporary Concrete Barrier, see roadway plans.
For Temporary Concrete Barrier, see Sheet 3 of 12.
Crosshatched areas indicate Removal of Existing Structures.



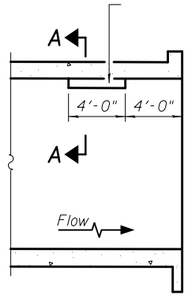
STAGE I CONSTRUCTION



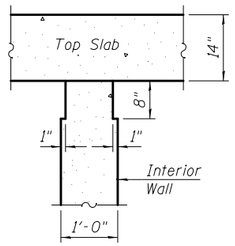
STAGE II CONSTRUCTION



FINAL CONSTRUCTION



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)

GENERAL NOTES

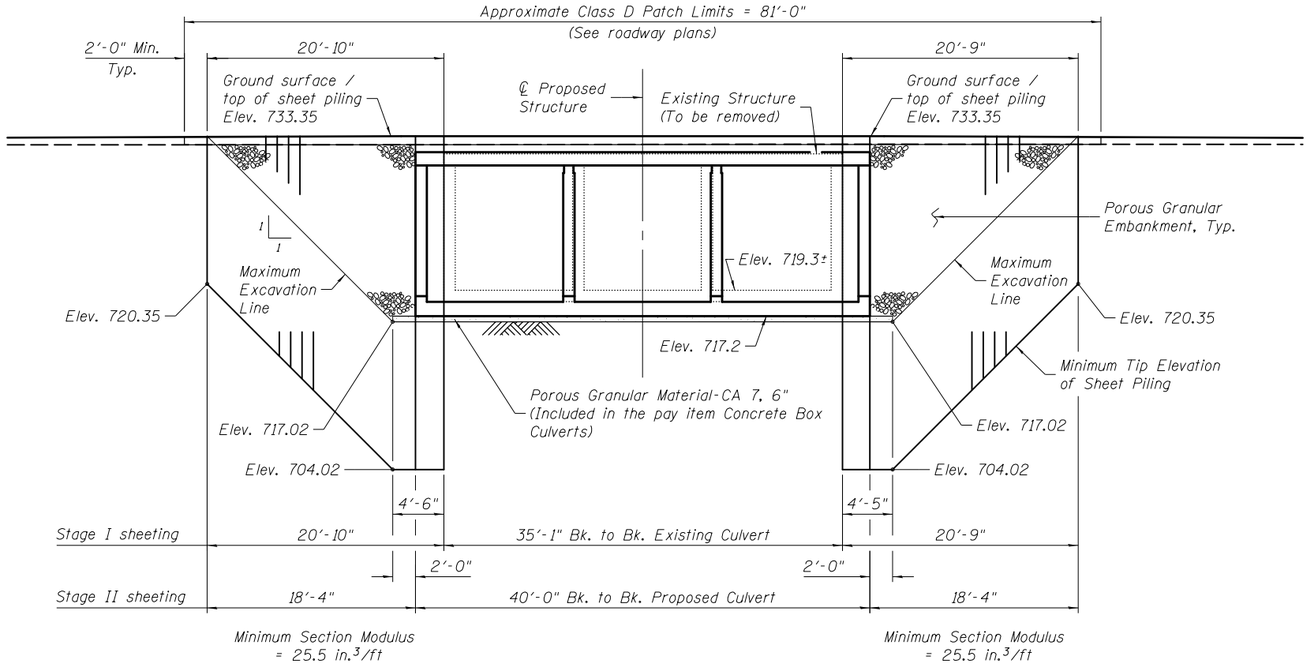
Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of the Concrete Box Culverts.

The limit of the Porous Granular Material-CA 7 shall include a layer of at least 6 in. in thickness, below the elevation of the bottom of the box for the plan area of the box. The Porous Granular Embankment shall extend at least 6" beyond the shoulder and extend up to the bottom of the Class D Patch.

Modify existing channel to match culvert at each end as directed by the Engineer. Cost included in the pay item for Stone Riprap, Class A4.



TEMPORARY SHEET PILING DETAILS

(Looking West)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Sheet Piling	Sq. Ft.	953

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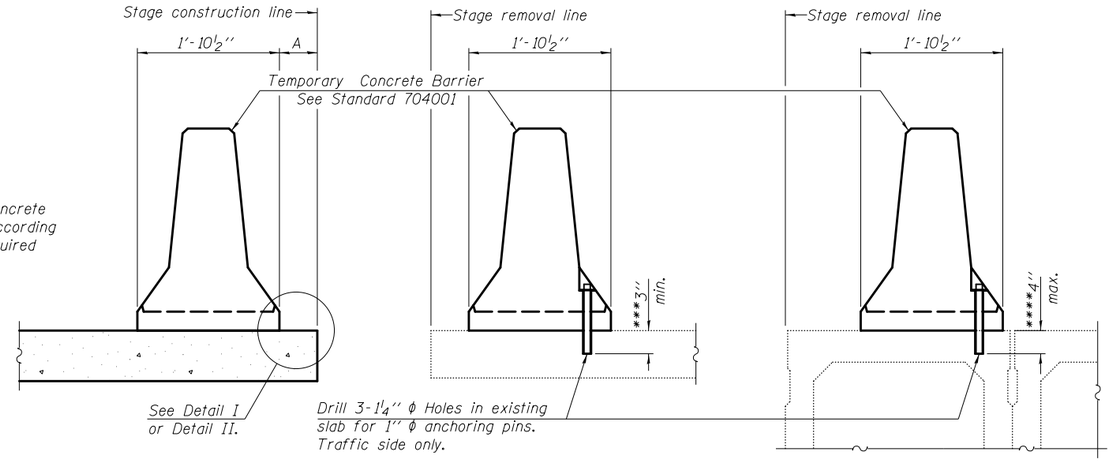
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 2 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	22
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

When "A" is 3'-1'' or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1''.



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel PL to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

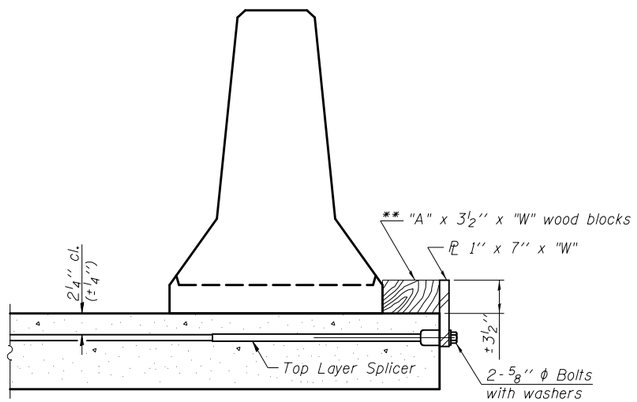
Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

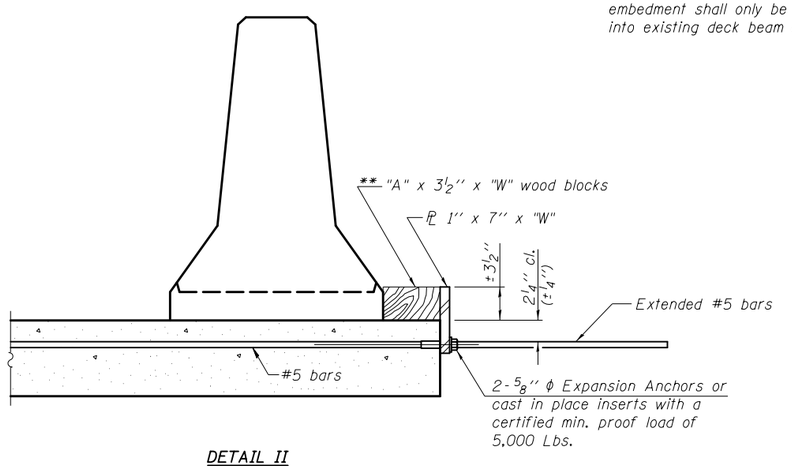
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

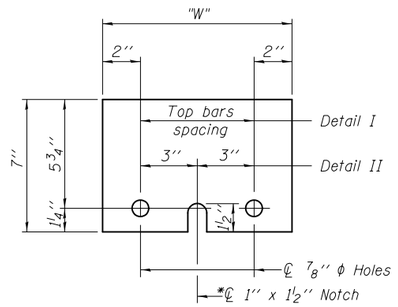
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27

1-12-15

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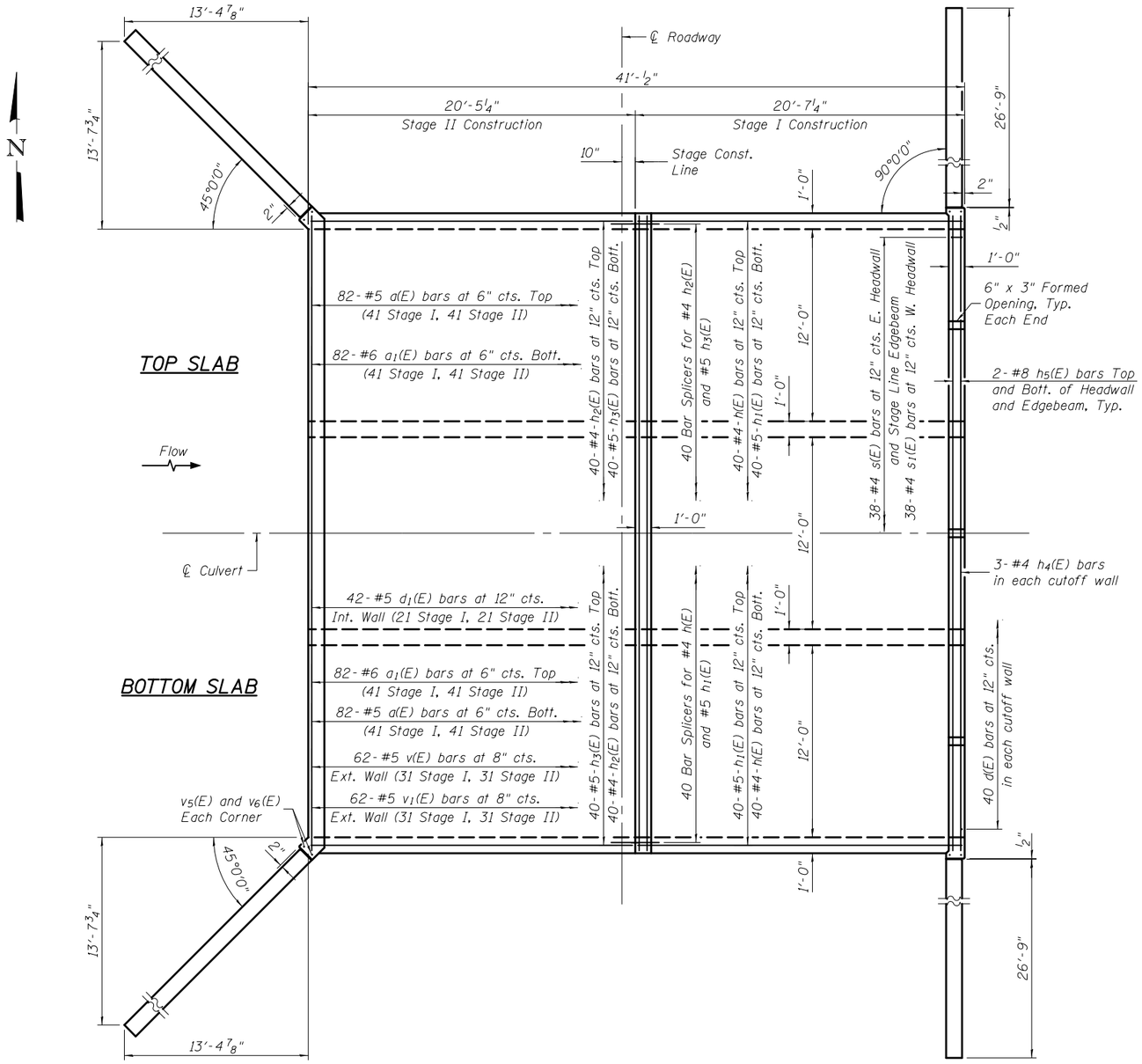
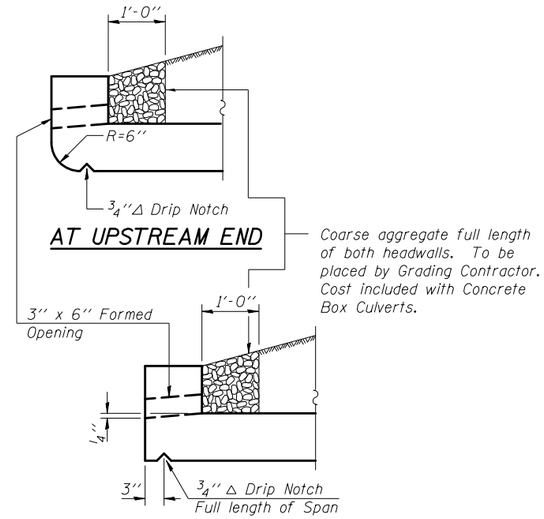
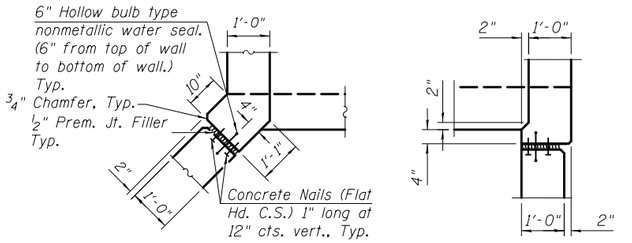
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 010-2037
SHEET NO. 3 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	23
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			







Note:
For bar reinforcement details, see Sheet 5 of 12.

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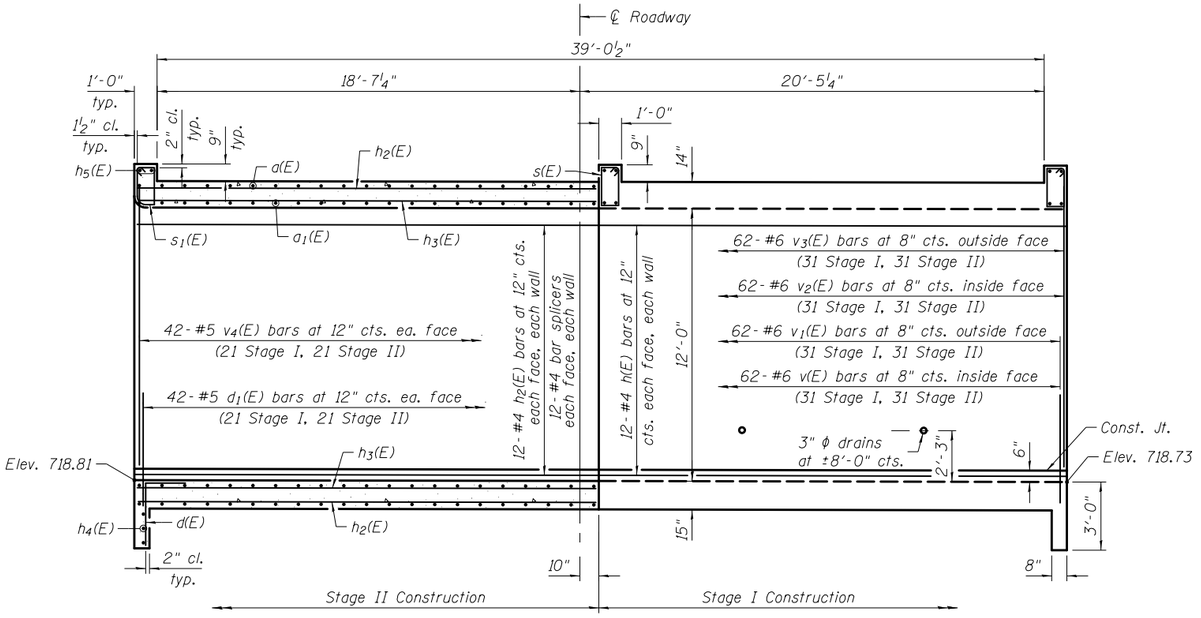
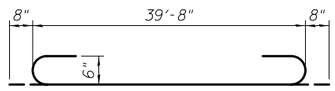
CULVERT DETAILS – TOP AND BOTTOM SLAB
STRUCTURE NO. 010–2037
SHEET NO. 4 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	24
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

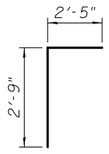


HALF LONG. SECTION
Showing bars in Interior Wall

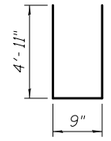
HALF ELEVATION
Showing bars in Exterior Wall



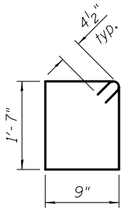
BAR $a_1(E)$



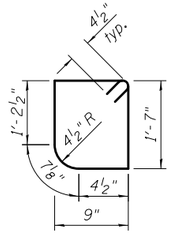
BAR d(E)



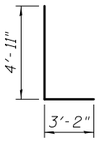
BAR $d_1(E)$



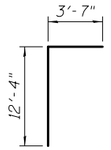
BAR s(E)



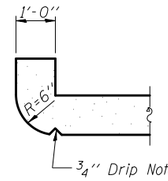
BAR $s_1(E)$



BAR $v_1(E)$



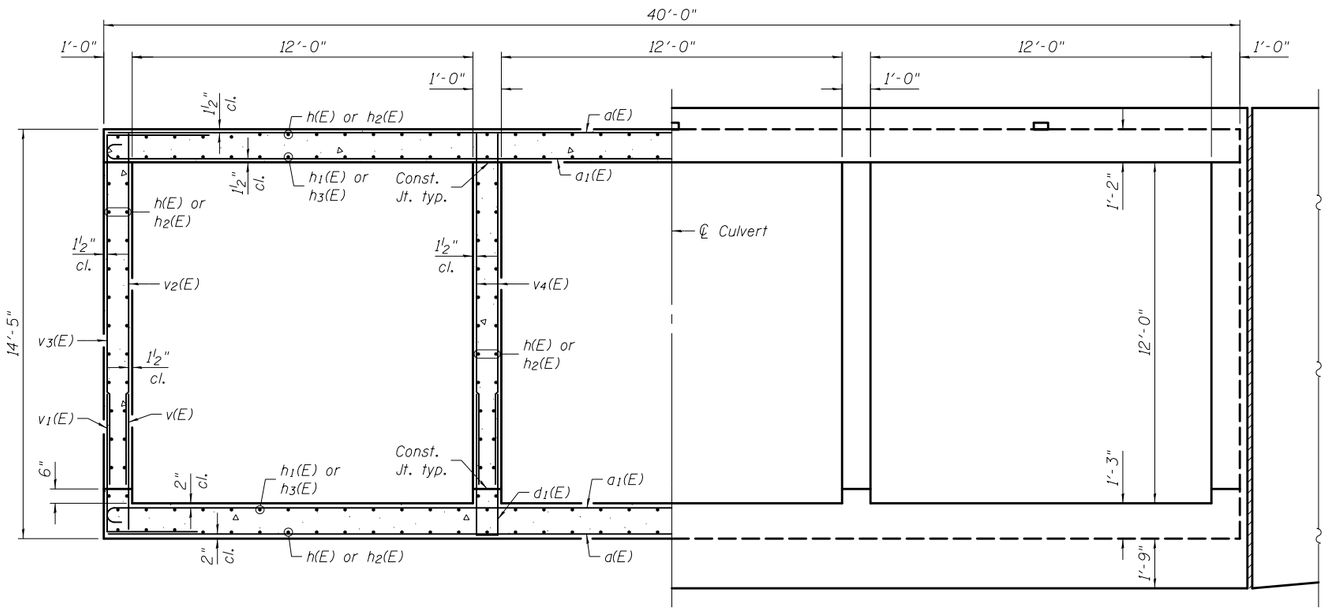
BAR $v_3(E)$



SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL FOR BOX CULVERT

Bar	No.	Size	Length	Shape
d(E)	164	#5	39'-8"	
$a_1(E)$	164	#6	41'-0"	
d(E)	80	#4	5'-2"	
$d_1(E)$	84	#5	10'-7"	
h(E)	176	#4	20'-3"	
$h_1(E)$	80	#5	20'-3"	
$h_2(E)$	176	#4	20'-1"	
$h_3(E)$	80	#5	20'-1"	
$h_4(E)$	6	#4	39'-8"	
$h_5(E)$	12	#8	39'-8"	
s(E)	76	#4	5'-5"	
$s_1(E)$	38	#4	5'-3"	
v(E)	124	#6	4'-11"	
$v_1(E)$	124	#6	8'-1"	
$v_2(E)$	124	#6	12'-4"	
$v_3(E)$	124	#6	15'-11"	
$v_4(E)$	168	#5	12'-4"	
$v_5(E)$	8	#5	6'-8"	
$v_6(E)$	8	#5	13'-1"	
Concrete Box Culverts			Cu. Yd.	227.1
Reinforcement Bars, Epoxy Coated			Pound	38,040



HALF SECTION THRU BARREL

HALF END ELEVATION

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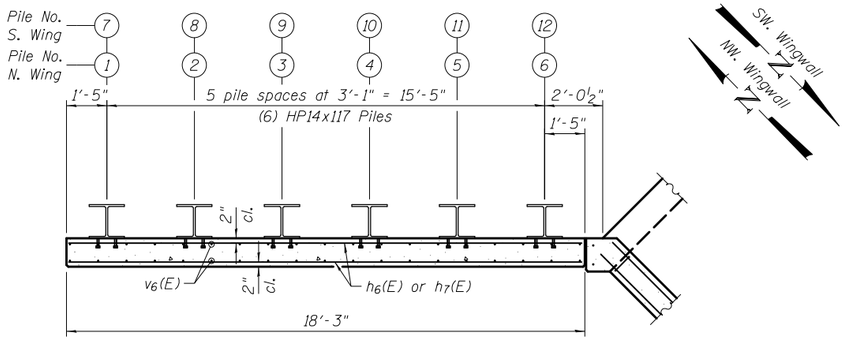
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 5 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	25
		CONTRACT NO. 70278		
		ILLINOIS FED. AID PROJECT		

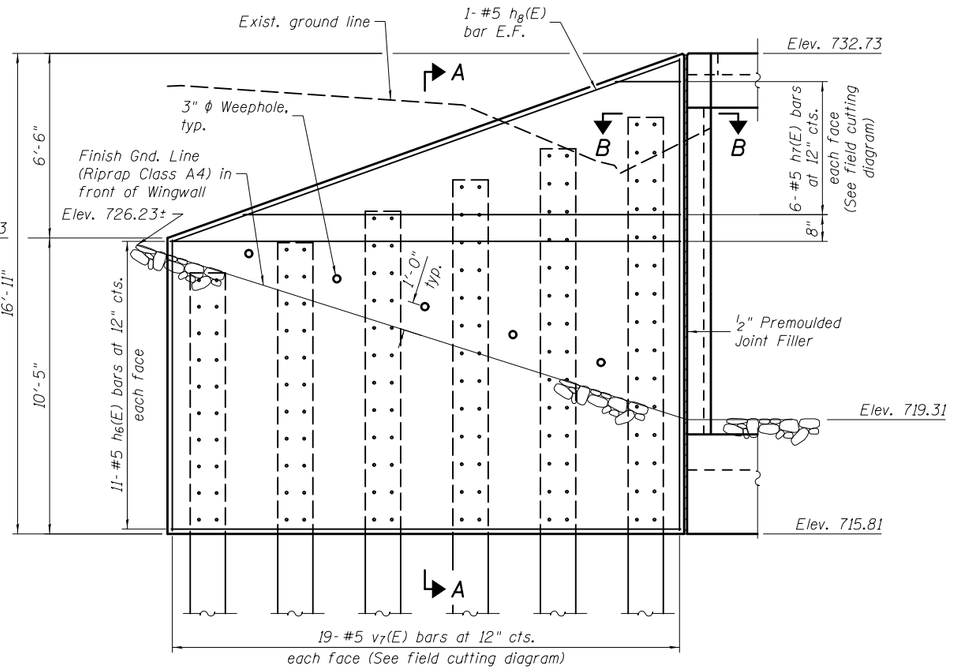


PLAN

Northwest Wingwall shown. Southwest Wingwall opposite

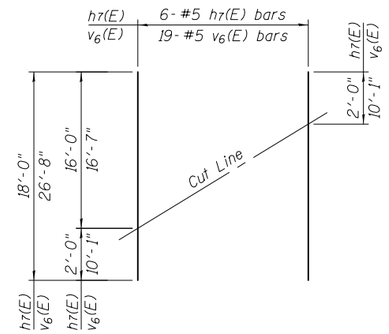
SOLDIER PILE DATA

Soldier Pile	℄ Pile		Pile Size	Top of Pile Elevation	Bottom of Pile Elevation	Length of Pile (Ft.)	Number of Shear Studs
	Station	Offset					
1	146+22.26	-30.88	HP14x117	725.07	690.07	35	18
2	146+20.08	-28.70	HP14x117	726.17	690.17	36	20
3	146+17.90	-26.52	HP14x117	727.26	690.26	37	22
4	146+15.72	-24.34	HP14x117	728.36	690.36	38	24
5	146+13.54	-22.16	HP14x117	729.46	689.46	40	26
6	146+11.36	-19.98	HP14x117	730.56	689.56	41	28
7	145+56.73	-30.88	HP14x117	725.07	690.07	35	18
8	145+58.91	-28.70	HP14x117	726.17	690.17	36	20
9	145+61.09	-26.52	HP14x117	727.26	690.26	37	22
10	145+63.27	-24.34	HP14x117	728.36	690.36	38	24
11	145+65.46	-22.16	HP14x117	729.46	689.46	40	26
12	145+67.64	-19.98	HP14x117	730.56	689.56	41	28



ELEVATION

(Looking Northeast)
Northwest Wingwall shown. Southwest Wingwall opposite



BAR CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face.

NOTES

See Sheet 4 of 12 for corner detail.
See Sheet 8 of 12 for wall sections and details.

BILL OF MATERIAL FOR TWO WALLS

Bar	No.	Size	Length	Shape
$h_6(E)$	44	#5	17'-11"	———
$h_7(E)$	12	#5	18'-0"	———
$h_8(E)$	4	#5	19'-0"	———
$v_7(E)$	38	#5	26'-8"	———

Structure Excavation	Cu. Yd.	75
Concrete Structures	Cu. Yd.	18.5
Stud Shear Connectors	Each	276
Reinforcement Bars, Epoxy Coated	Pound	2,180
Furnishing Soldier Piles (HP Section)	Foot	454
Driving Soldier Piles	Foot	454
Untreated Timber Lagging	Sq. Ft.	318
Geocomposite Wall Drain	Sq. Yd.	13

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WINGWALL DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 6 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	26
		CONTRACT NO. 70278		
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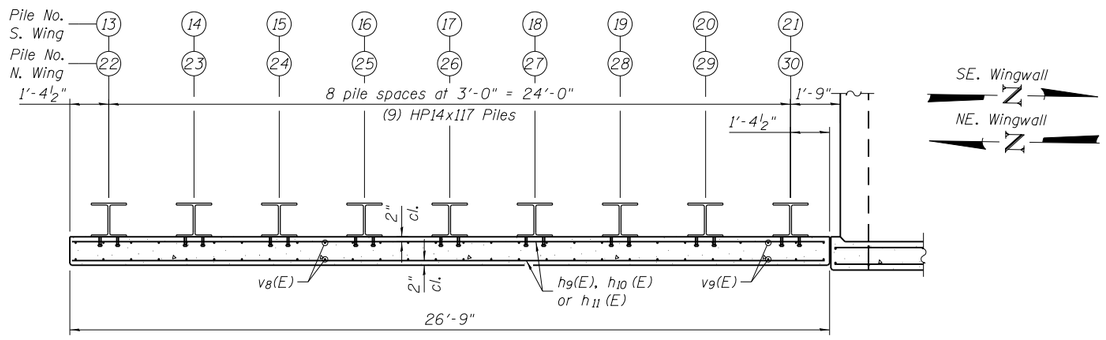
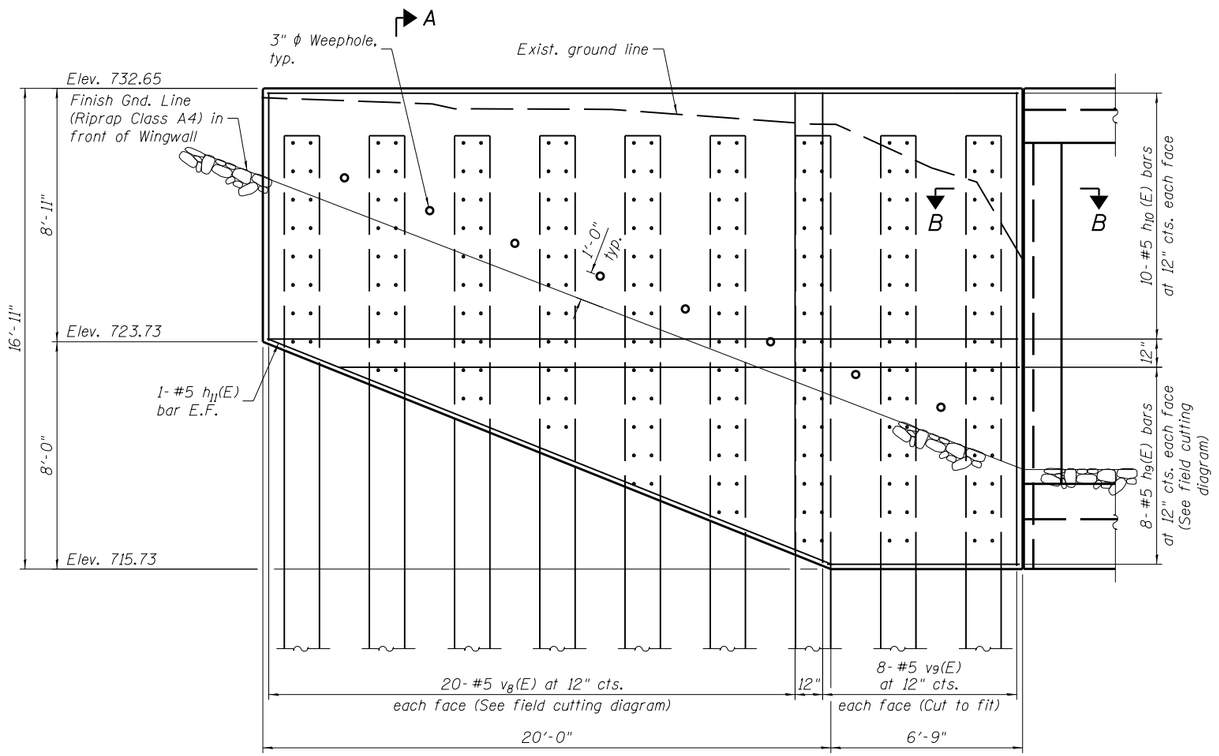


PLAN

Southeast Wingwall shown. Northeast Wingwall opposite

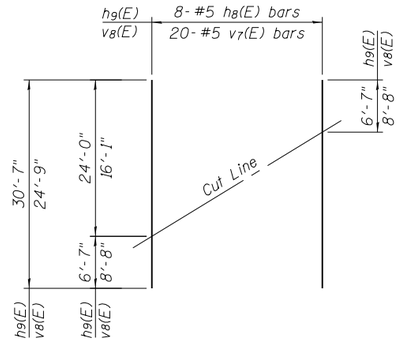
SOLDIER PILE DATA

Soldier Pile	℄ Pile Station	℄ Pile Offset	Pile Size	Top of Pile Elevation	Bottom of Pile Elevation	Length of Pile (Ft.)	Number of Shear Studs
13	146+35.25	19.68	HP14x117	730.97	689.97	41	30
14	146+32.25	19.68	HP14x117	730.97	689.97	41	30
15	146+29.25	19.68	HP14x117	730.97	689.97	41	30
16	146+26.25	19.68	HP14x117	730.97	689.97	41	28
17	146+23.25	19.68	HP14x117	730.97	689.97	41	24
18	146+20.25	19.68	HP14x117	730.97	689.97	41	22
19	146+17.25	19.68	HP14x117	730.97	689.97	41	20
20	146+14.25	19.68	HP14x117	730.97	689.97	41	18
21	146+11.25	19.68	HP14x117	730.97	689.97	41	16
22	145+43.75	19.68	HP14x117	730.97	689.97	41	30
23	145+46.75	19.68	HP14x117	730.97	689.97	41	30
24	145+49.75	19.68	HP14x117	730.97	689.97	41	30
25	145+52.75	19.68	HP14x117	730.97	689.97	41	28
26	145+55.75	19.68	HP14x117	730.97	689.97	41	24
27	145+58.75	19.68	HP14x117	730.97	689.97	41	22
28	145+61.75	19.68	HP14x117	730.97	689.97	41	20
29	145+64.75	19.68	HP14x117	730.97	689.97	41	18
30	145+67.75	19.68	HP14x117	730.97	689.97	41	16



ELEVATION

(Looking Southwest)
Southeast Wingwall shown. Northeast Wingwall opposite



BAR CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face.

NOTES

See Sheet 4 of 12 for corner detail.
See Sheet 8 of 12 for wall sections and details.

BILL OF MATERIAL FOR TWO WALLS

Bar	No.	Size	Length	Shape
$h_9(E)$	16	#5	30'-7"	——
$h_{10}(E)$	40	#5	26'-5"	——
$h_{11}(E)$	4	#5	21'-5"	——
$v_8(E)$	40	#5	24'-9"	——
$v_9(E)$	32	#5	16'-7"	——

Structure Excavation	Cu. Yd.	91
Concrete Structures	Cu. Yd.	27.6
Stud Shear Connectors	Each	436
Reinforcement Bars, Epoxy Coated	Pound	3,290
Furnishing Soldier Piles (HP Section)	Foot	738
Driving Soldier Piles	Foot	738
Untreated Timber Lagging	Sq. Ft.	486
Geocomposite Wall Drain	Sq. Yd.	22

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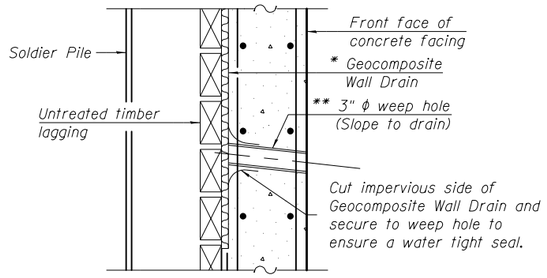
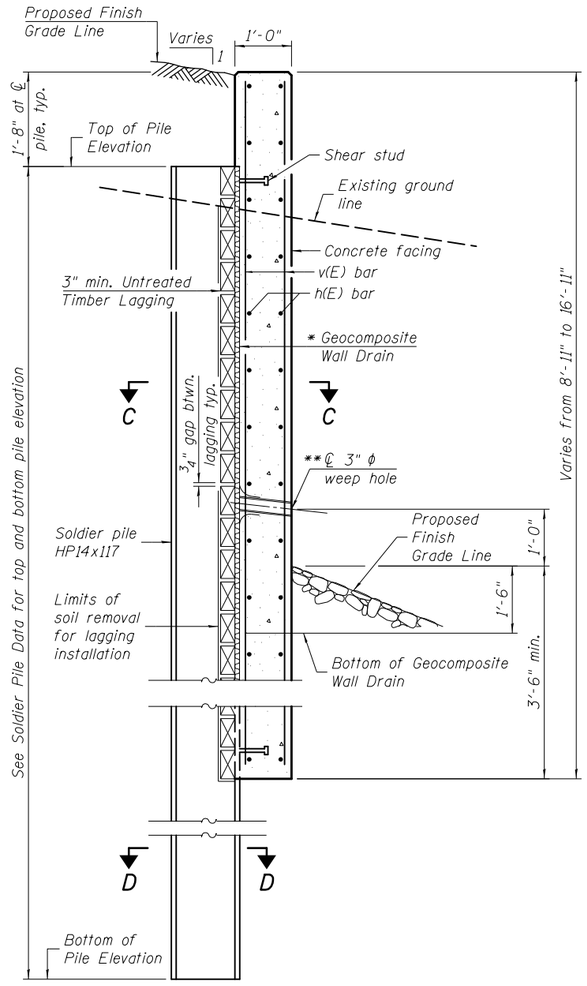
WINGWALL DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 7 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	27
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

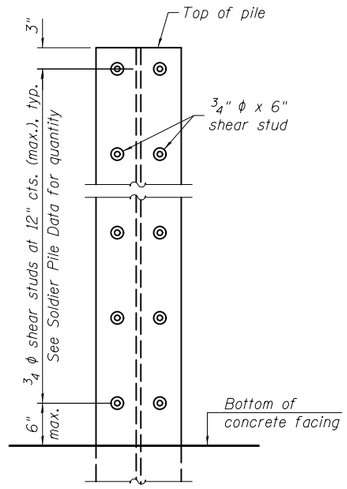


WEEP HOLE DRAIN DETAIL

** Cost of the weep hole drain and connection to the Geocomposite Wall Drain is included in the cost of Concrete Structures.

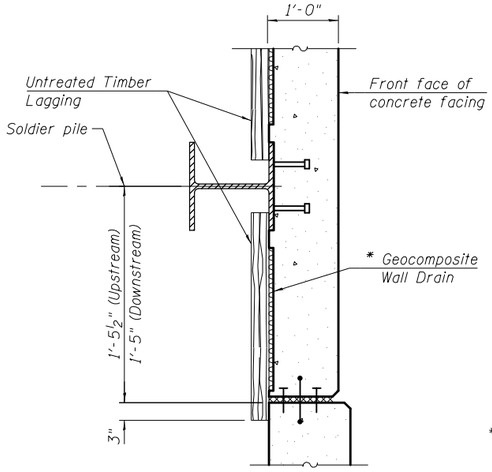


SECTION A-A

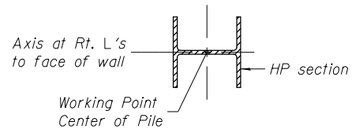


SHEAR STUD DETAIL

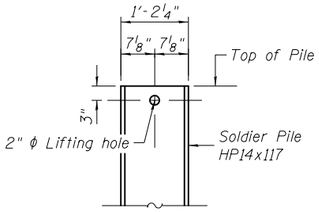
(Elevation of pile shown)



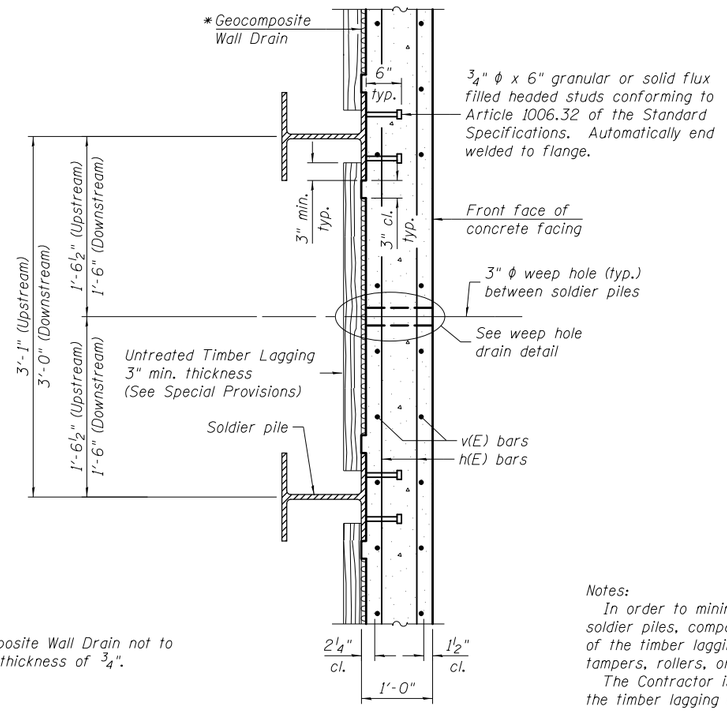
SECTION B-B



SECTION D-D



LIFTING HOLE DETAIL



SECTION C-C

* Geocomposite Wall Drain not to exceed thickness of 3/4".

SOLDIER PILE WINGWALL SUGGESTED CONSTRUCTION SEQUENCE

1. Construct concrete box culvert.
2. Drive soldier piles (may be completed prior to completing construction of box culvert).
3. Install timber lagging.
4. Place and compact backfill behind wingwall to top of timber lagging.
5. Place reinforcement and form concrete wall face.
6. Cast concrete wingwall facing.
7. Place remainder of backfill to proposed ground surface elevations on both sides of wall (backfill front side of wall as much as possible before backfilling is completed).

Notes:

In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 ft of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.

The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

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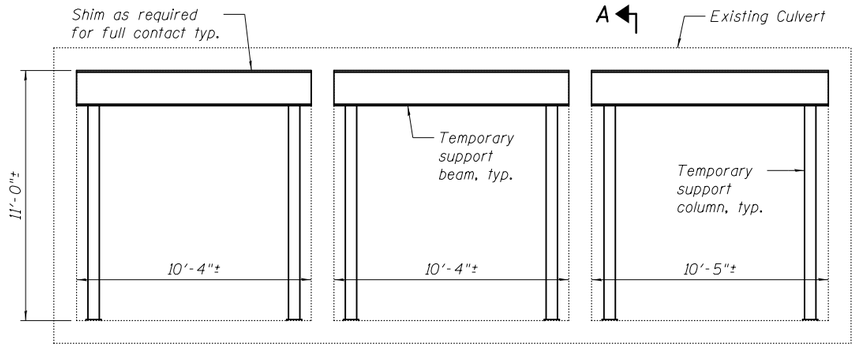
USER NAME = bergana j	DESIGNED - CDL	REVISED -
	CHECKED - CTW	REVISED -
PLOT SCALE = 0.2 '' / in.	DRAWN - JAA	REVISED -
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 8 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	28
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			



ELEVATION

Note:
Place Temporary Support prior to Stage I Removal.

NOTES

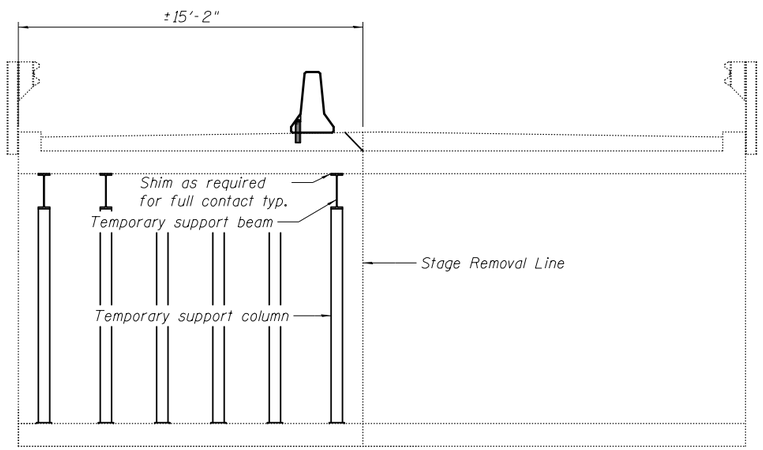
This work shall consist of furnishing, installing and subsequent removal of the temporary shoring according to the dimensions and details shown on the plans and according to the applicable portions of Section 512 of the Standard Specifications.

This work shall include furnishing, installing and subsequent removal of all miscellaneous steel shapes, plates and connecting hardware when required to attach the shoring to the existing structure.

Temporary shoring minimum limits are shown in the plans. The contractor shall submit plans and details to the engineer for approval. The methods shown on the plans are for information only. The contractor may propose other means of supporting the construction/traffic staging provided they are done so at no extra cost to the department. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. This approval will not relieve the contractor of responsibility for the safety of the shoring.

Any disturbance or damage to existing structures, utilities or other property, caused by the contractors operation, shall be repaired by the contractor in a manner satisfactory to the Engineer at no additional cost to the Department. The contractor shall be responsible for determining the appropriate equipment necessary to install the contractors approved design. The shoring shall remain in place until removal of the existing structure.

This work shall be paid for at the contract unit price per Each for Temporary Support System.



SECTION A-A
(Looking North)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Support System	Each	1

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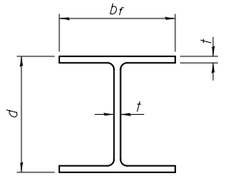
PLOT SCALE = 0.2 '' / in.	DRAWN - JAA	REVISED -	
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

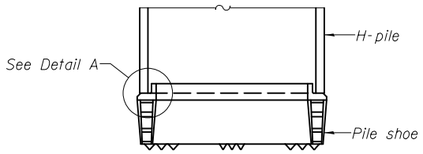
TEMPORARY SUPPORT DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 9 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	29
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

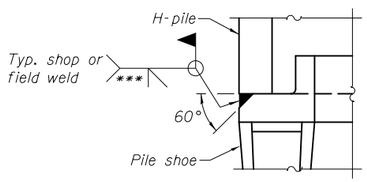


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	$14\frac{1}{4}''$	$14\frac{7}{8}''$	$\frac{13}{16}''$	30''
x102	14''	$14\frac{3}{4}''$	$\frac{11}{16}''$	30''
x89	$13\frac{7}{8}''$	$14\frac{3}{4}''$	$\frac{5}{8}''$	30''
x73	$13\frac{5}{8}''$	$14\frac{5}{8}''$	$\frac{1}{2}''$	30''
HP 12x84	$12\frac{1}{4}''$	$12\frac{1}{4}''$	$\frac{11}{16}''$	24''
x74	$12\frac{1}{8}''$	$12\frac{1}{4}''$	$\frac{5}{8}''$	24''
x63	12''	$12\frac{1}{8}''$	$\frac{1}{2}''$	24''
x53	$11\frac{3}{4}''$	12''	$\frac{7}{16}''$	24''
HP 10x57	10''	$10\frac{1}{4}''$	$\frac{9}{16}''$	24''
x42	$9\frac{3}{4}''$	$10\frac{1}{8}''$	$\frac{7}{16}''$	24''
HP 8x36	8''	$8\frac{1}{8}''$	$\frac{7}{16}''$	18''

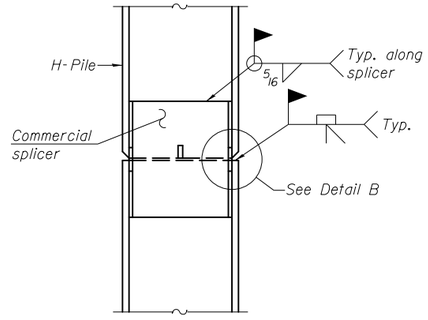


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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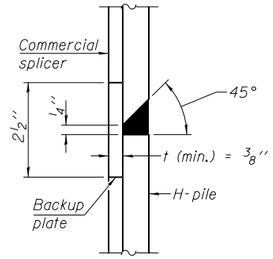
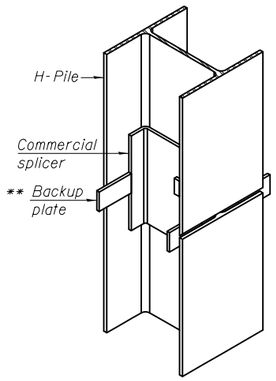
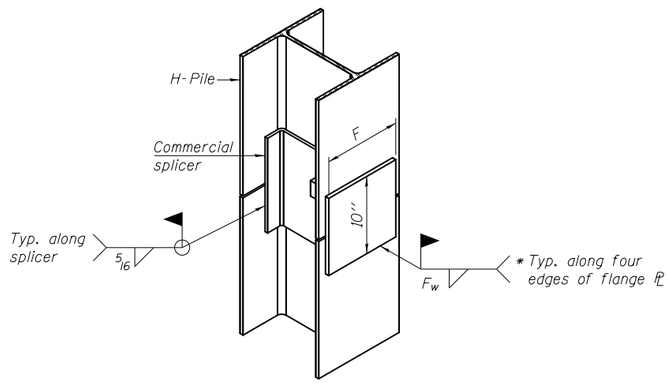


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



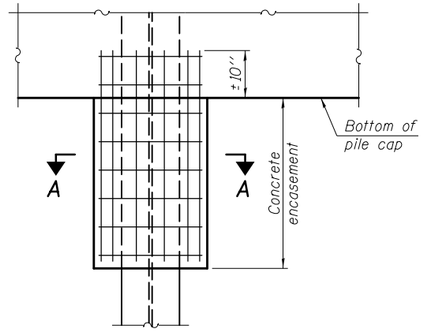
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼'' from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer ($\frac{5}{16}''$ min.).



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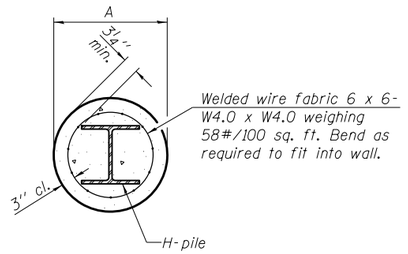
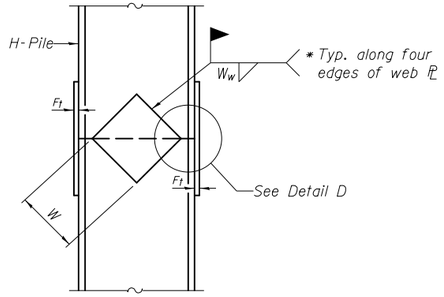


SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

PILE ENCASEMENT



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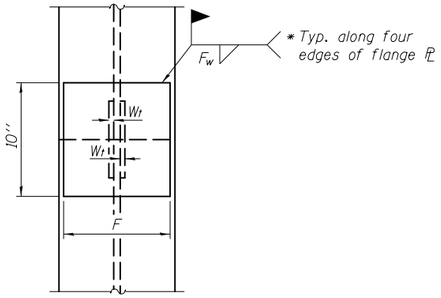
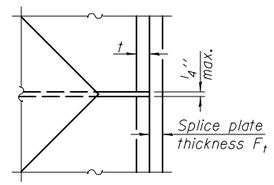


END VIEW



DETAIL D

Designation	F	F_f	F_w	W	W_f	W_w
HP 14x117	$12\frac{1}{2}''$	1''	$\frac{7}{8}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x102	$12\frac{1}{2}''$	$\frac{7}{8}''$	$\frac{3}{4}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x89	$12\frac{1}{2}''$	$\frac{3}{4}''$	$\frac{11}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x73	$12\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{9}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
HP 12x84	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x74	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x63	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x53	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 10x57	8''	$\frac{3}{4}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x42	8''	$\frac{5}{8}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 8x36	7''	$\frac{5}{8}''$	$\frac{7}{16}''$	$4\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$

WELDED PLATE FIELD SPLICE

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

PRINT DATE: 3/14/2016 $TIME$ $FILE$

F-HP 1-27-12

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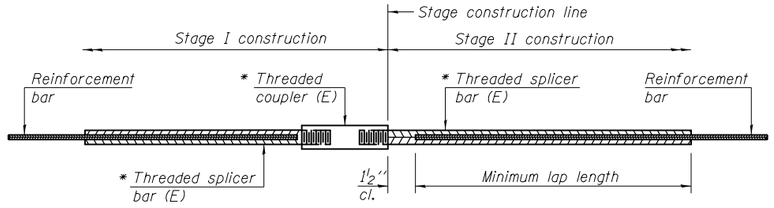
PLOT SCALE = 0.2 '/ in.	DRAWN - JAA	REVISED -
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 10 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	30
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

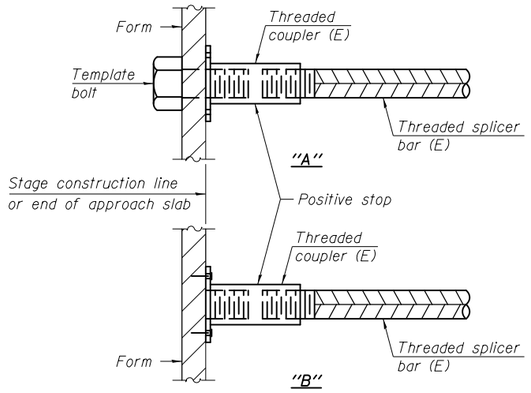


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

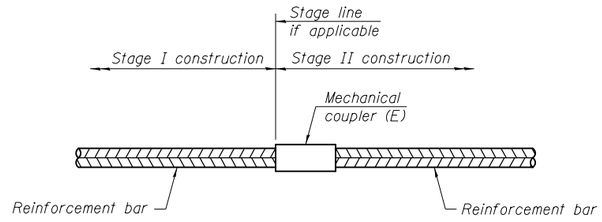
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bott. of Bott. Slab	4	40	2'-11"
Top of Bott. Slab	5	40	3'-7"
Walls	4	96	2'-11"
Bott. of Top Slab	5	40	3'-7"
Top of Top Slab	4	40	2'-11"



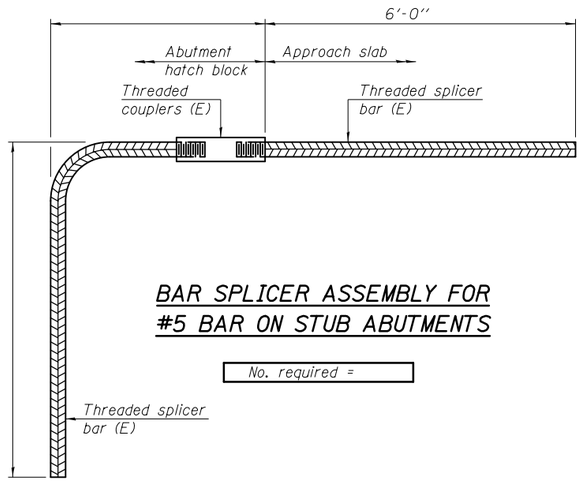
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

PRINT DATE: 3/14/2016 $TIME$ $FILE$

BSD-1

6-8-15

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	CHECKED - CTW	REVISED -	
PLOT SCALE = 0.2 '/ in.	DRAWN - JAA	REVISED -	
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 010-2037
SHEET NO. 11 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	31
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
Illinois Department of Transformation

SOIL BORING LOG

Page 1 of 1

Date 9/21/11

ROUTE FAS 502 (Leverett Rd.) **DESCRIPTION** Leverett Road over Tributary to Saline Branch Drainage Ditch **LOGGED BY** CNA

SECTION 106BR-1 **LOCATION** NW, **SEC.** 19, **TWP.** 20N, **RNG.** 8E, 3rd **PM** **GPS:**

COUNTY Champaign **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** Automatic

STRUCT. NO. 010-2010E/2037P
Station 145+89.5

BORING NO. 1 SE Boring
Station 145+63
Offset 9.0 ft Rt.
Ground Surface Elev. 732.6 ft

Surface Water Elev. 720.8 ft
Stream Bed Elev. 719.8 ft

Groundwater Elev.:
First Encounter 703.6 ft ▼
Upon Completion Plugged ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
732.6				Asphalt Pavement
730.6				Brown Clay Loam (Fill)
	1			
	2	2.1	19	
-5	3	B		
727.1				Gray Mottled Silty Clay
	0			
725.6	2		15	
	2			Gray Sand Loam Till to Dirty Coarse Sand with Trace of Free Water
	2			
	3			
-10	4			
722.1				Gray/Brown Clay Loam Till
	1			
	2	1.6	14	
	4	B		
	3			
	4	1.5	12	
-15	6	B		
717.1				Gray Clay Loam Till
	3			
	6	2.5	12	
	6	B		
	3			
	6	2.8	13	
-20	7	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Gray Clay Loam Till *(continued)*
				(Trace of Brown Fine Sand & Silt)
	3			
	6	2.1	12	
-25	6	B		
	3			
	5	3.1	11	
-30	8	B		
	3			
	6	2.1	23	
697.6 -35	6	B		
				End of Boring
-40				

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

BBS, from 137 (Rev. 8-99)

9/22/2011 9:21:22 AM S:\SOILS\2011 SOIL WORKS\SOIL BORINGS\010-2010E.GPJ

Illinois Department of Transportation
Division of Highways
Illinois Department of Transformation

SOIL BORING LOG

Page 1 of 1

Date 9/21/11

ROUTE FAS 502 (Leverett Rd.) **DESCRIPTION** Leverett Road over Tributary to Saline Branch Drainage Ditch **LOGGED BY** CNA

SECTION 106BR-1 **LOCATION** NW, **SEC.** 19, **TWP.** 20N, **RNG.** 8E, 3rd **PM** **GPS:**

COUNTY Champaign **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** Automatic

STRUCT. NO. 010-2010E/2037P
Station 145+89.5

BORING NO. 2 NW Boring
Station 146+17
Offset 9.0 ft Lt.
Ground Surface Elev. 732.6 ft

Surface Water Elev. 720.8 ft
Stream Bed Elev. 719.8 ft

Groundwater Elev.:
First Encounter 703.6 ft ▼
Upon Completion 703.6 ft ▽
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Asphalt Pavement
730.6				Brown Clay Loam (Fill)
728.6	2			
	2	1.4	27	Brown/Gray/Black Mixed Mottled Silty Clay Loam
-5	3	B		
727.1				Gray Sandy Clay Loam Till to Sand Loam Till
	1			
725.6	2	1.0	25	
	3	B		Gray Dirty Coarse Sand to Sand Loam with Trace of Free Water
	3			
	4			
-10	8			
722.1				Gray Clay Loam Till
	3			
	4	2.9	14	
	6	B		
718.6	3			
	3	1.4	15	Brown Clay Loam Till
-15	5	B		
717.1				Gray Clay Loam Till
	3			
	5	2.5	13	
	5	B		
	3			
	5	3.3	12	
-20	7	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Gray Clay Loam Till *(continued)*
	3			
	4	1.6	11	
-25	4	B		
	3			
	6	3.1	10	
-30	6	B		
	2			
	4	1.2	10	
697.6 -35	4	B		
				End of Boring
-40				

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

BBS, from 137 (Rev. 8-99)

9/22/2011 9:21:25 AM S:\SOILS\2011 SOIL WORKS\SOIL BORINGS\010-2010E.GPJ

PRINT DATE: 3/14/2016 $TIME$ $FILE$

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

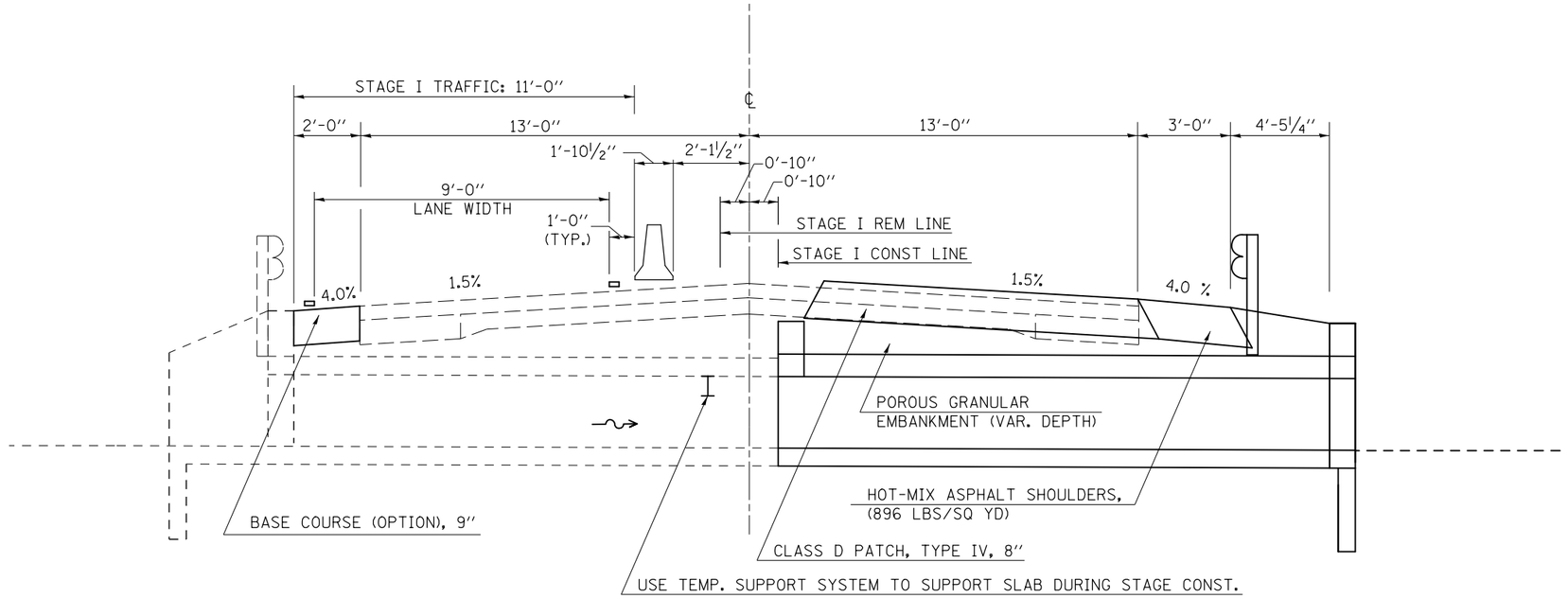
USER NAME = bergenaj	DESIGNED - CDL	REVISED -	
	CHECKED - CTW	REVISED -	
PLOT SCALE = 0.2 '' / in.	DRAWN - JAA	REVISED -	
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 010-2037
SHEET NO. 12 OF 12 SHEETS

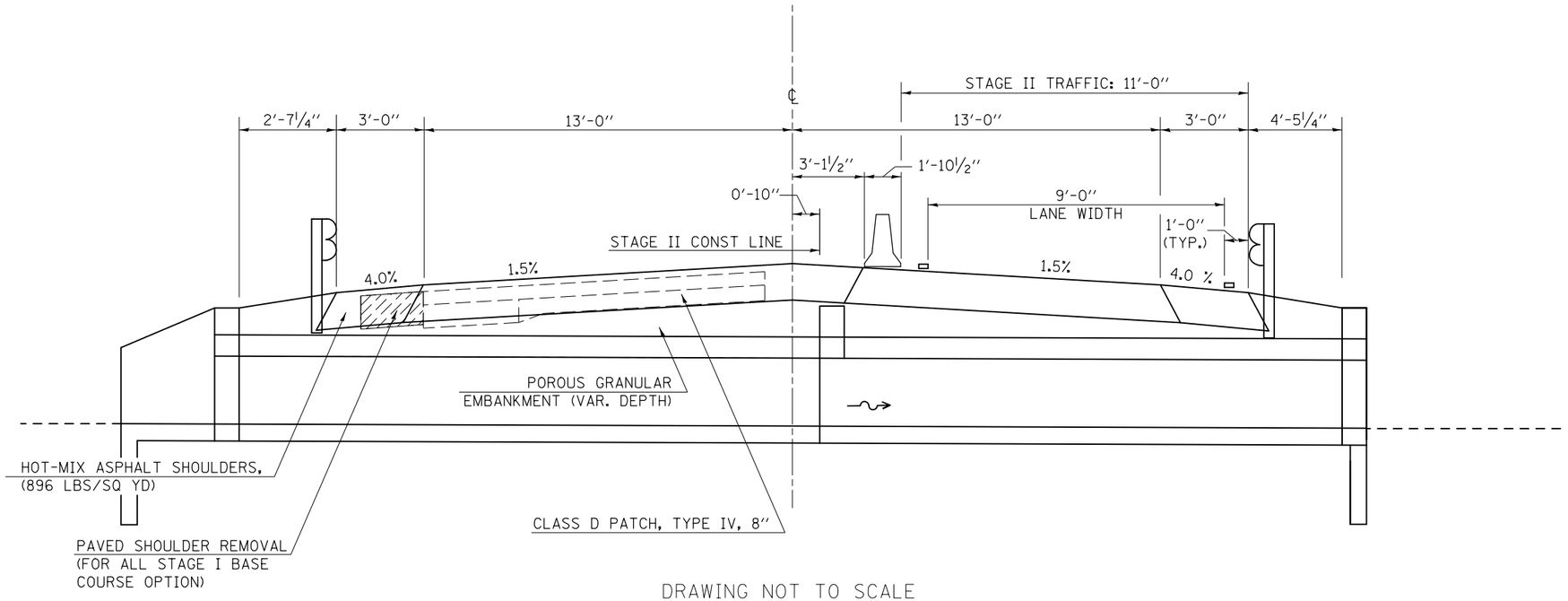
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	32
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

TYPICAL STAGING DETAILS SN 010–2010(E), SN 010–2037(P) STAGE I



DRAWING NOT TO SCALE

TYPICAL STAGING DETAILS SN 010–2010(E), SN 010–2037(P) STAGE II



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			REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

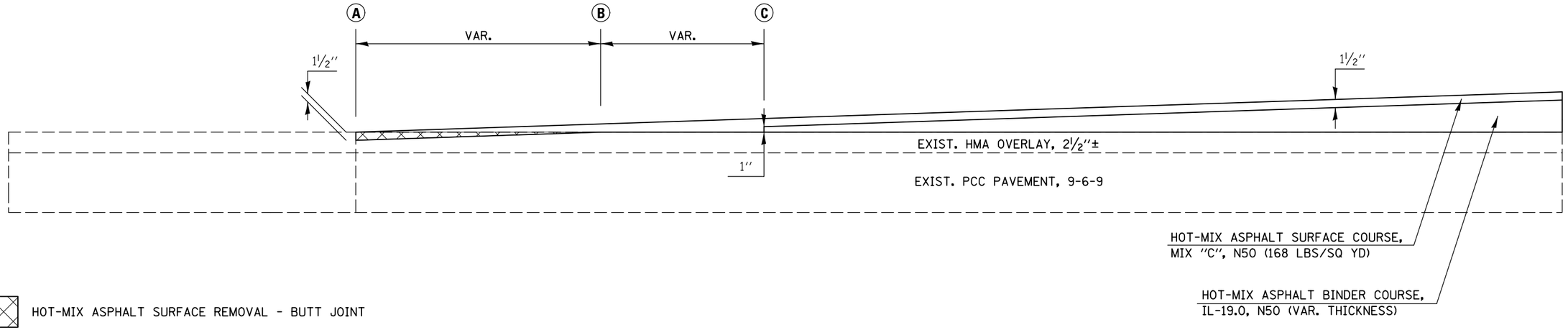
STAGING DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	33
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

DETAIL FOR FAS 502 BUTT JOINTS AND PAVING TRANSITIONS

Ⓐ STATION	TO	Ⓑ STATION	TO	Ⓒ STATION
23+00.00		23+17.29		23+34.26
148+00.00		147+71.39		147+52.25



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

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	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILLING AND PAVING TRANSITION DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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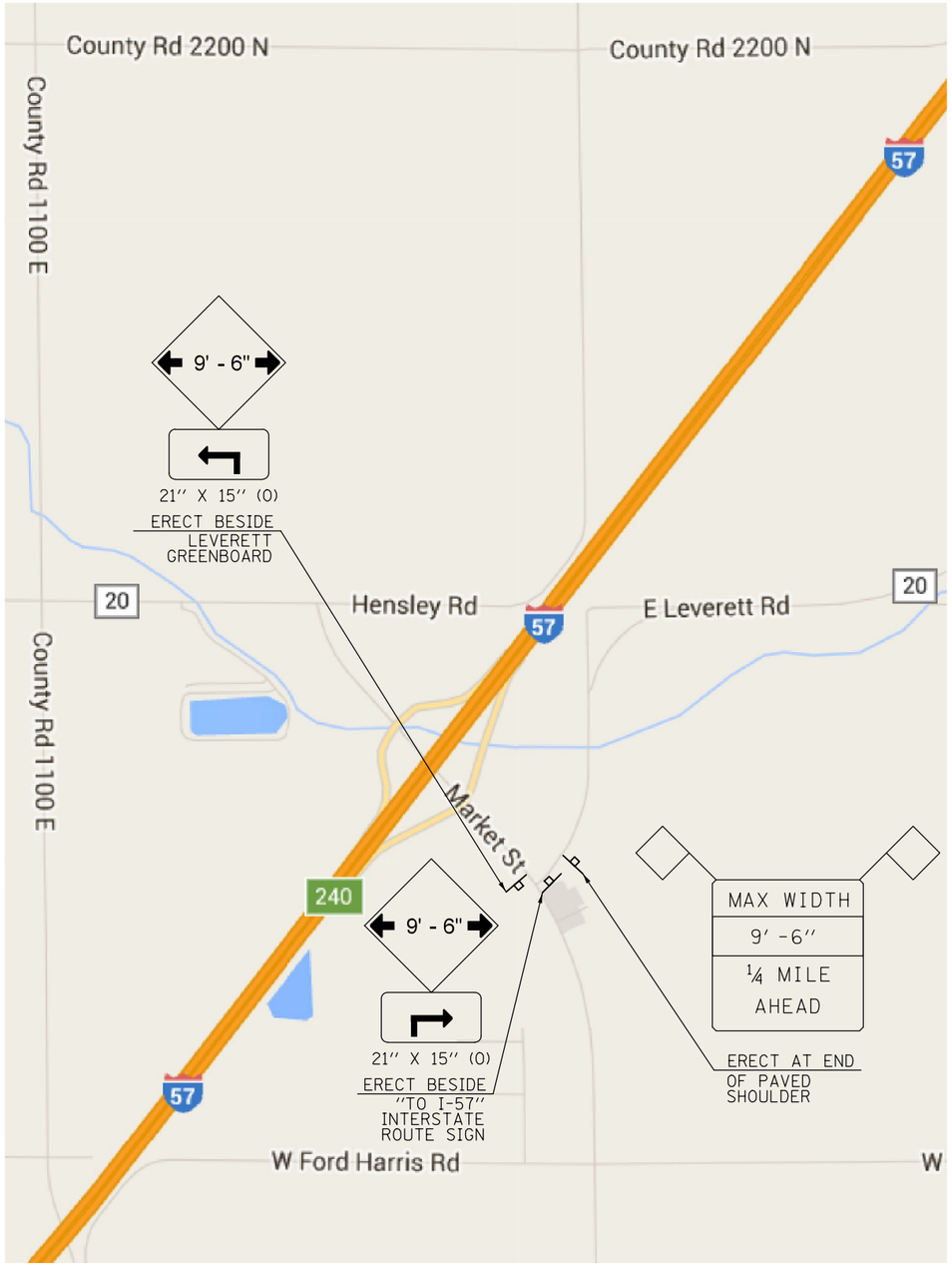
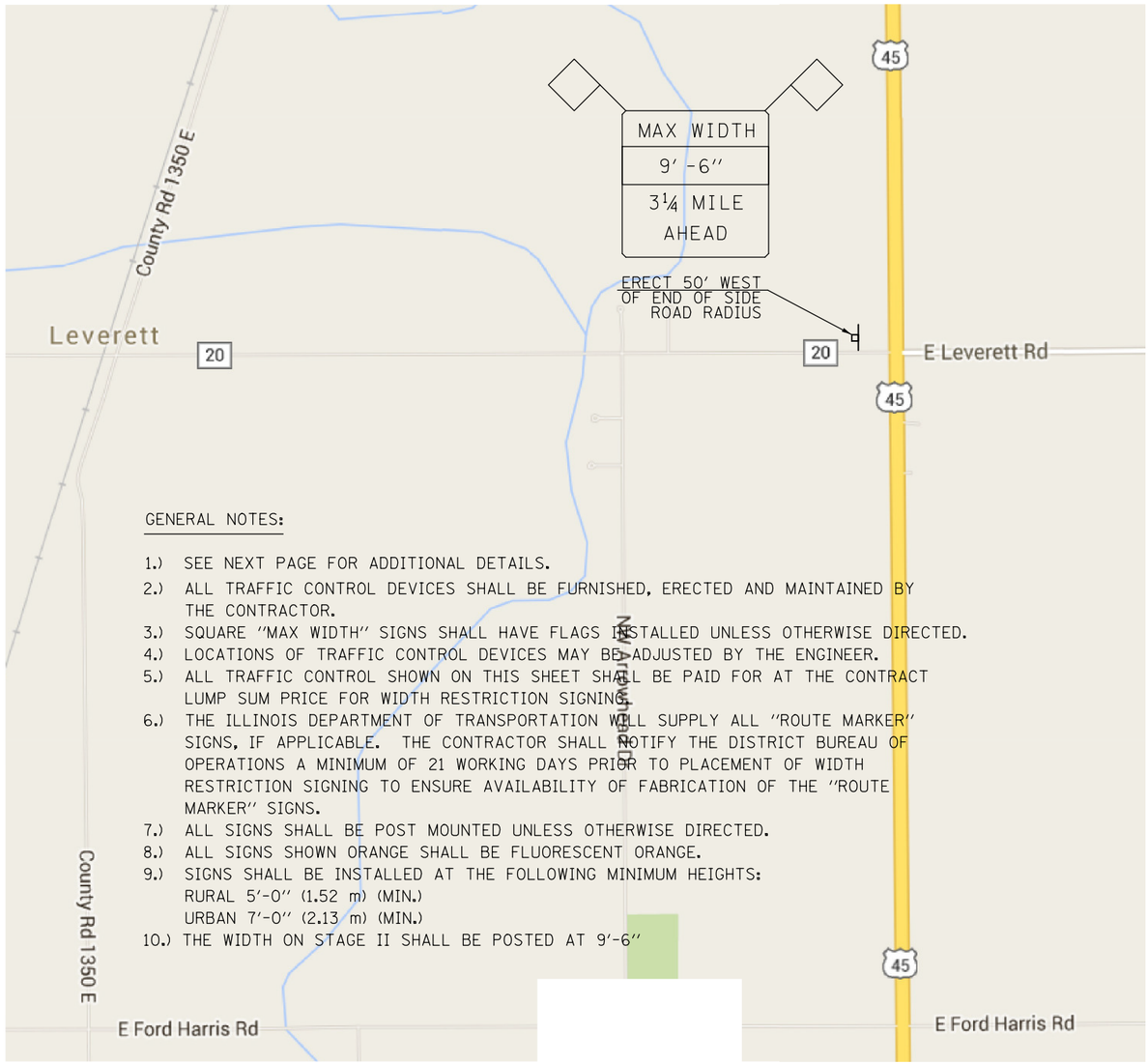
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			





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		DRAWN -	REVISED -
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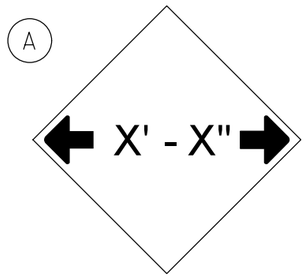
	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

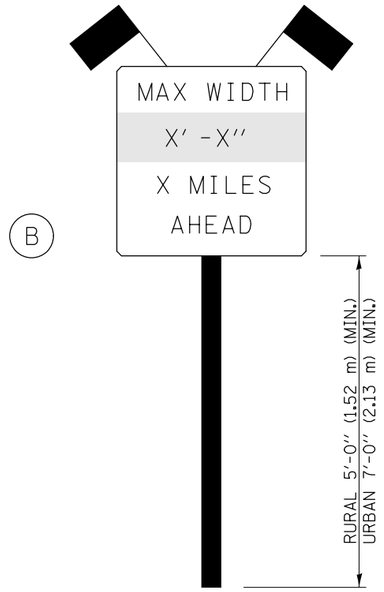
WIDTH RESTRICTION SIGNING DETAIL

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

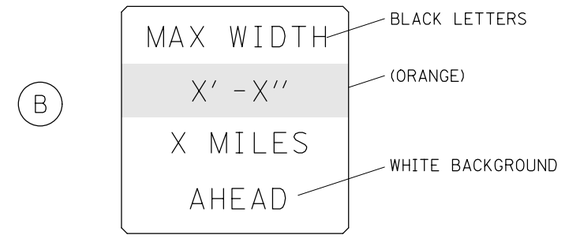
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	35
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			



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



SIGN PANEL, TYPE II



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

SIGN (A) 2 SIGNS - W12-2(O)-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.

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.

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

DISTRICT 5 DETAIL NO. X7200201

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		DRAWN -	REVISED - 05/08
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 10/08 - KJT
	PLOT DATE = 3/14/2016	DATE -	REVISED - 7/09 - KJT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING

SCALE: | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

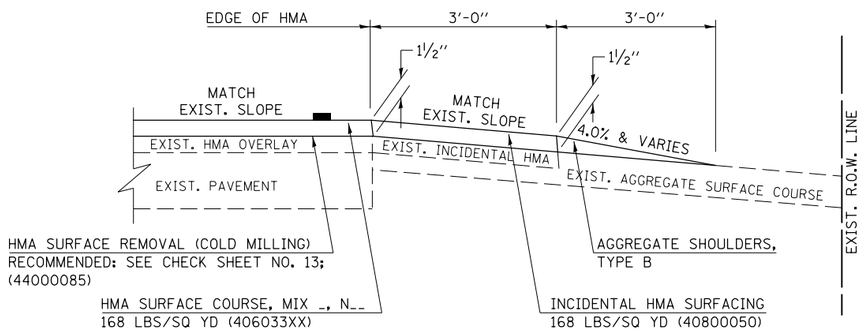
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	36
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROJECTS WITHOUT RECONSTRUCTION

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

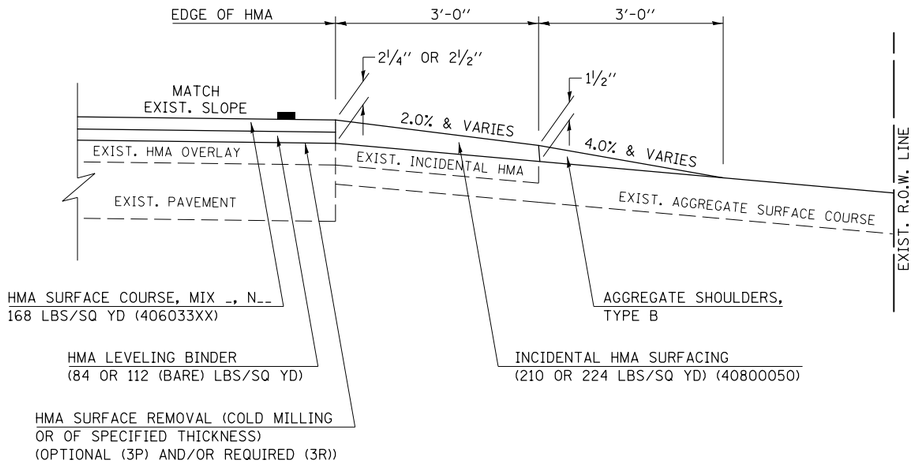
S.M.A.R.T. IMPROVEMENTS

(POLICY RESURFACING; BDE 53-4.03; 1½")



"3P" OR "3R" IMPROVEMENTS

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

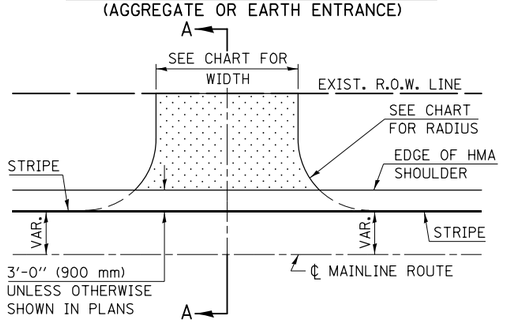


PROJECTS WITH RECONSTRUCTION

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

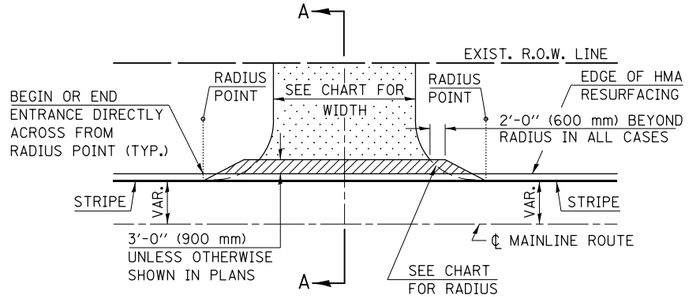
ADJACENT TO PROPOSED HMA SHOULDERS

(AGGREGATE OR EARTH ENTRANCE)

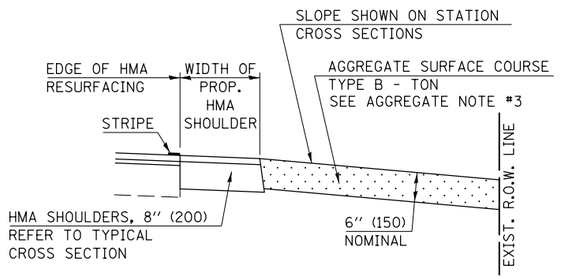


TYPICAL APPLICATION

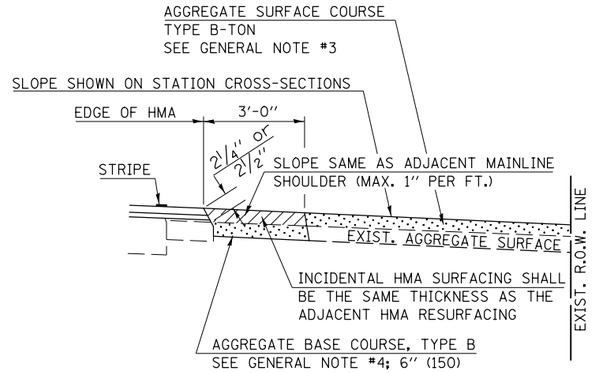
EXISTING AGGREGATE OR EARTH ENTRANCE



TYPICAL APPLICATION



SECTION A-A



SECTION A-A

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

DISTRICT 5 DETAIL NO. 40800050A

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	PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED - 09/21/07 KAG		
	PLOT DATE = 3/14/2016	CHECKED -	REVISED - 04/30/08 KJT		SCALE: NA / SHEET NO. 1 OF 2 SHEETS / STA. / TO STA.
		DATE -	REVISED -		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	37
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.

2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.

4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.

5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.

6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".

7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 AND 40-11 ALONG WITH DISTRICT CONSTRUCTION MEMORANDUM 03/14 DISCUSS THIS PROCEDURE.

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

DISTRICT 5 DETAIL NO. 40800050A

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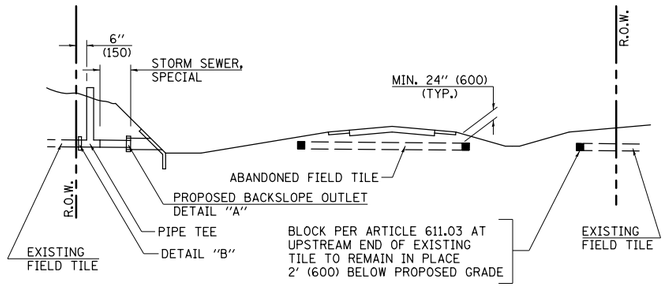
		DRAWN	REVISED - 09/21/07 KAG	
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 04/30/08 KJT	
	PLOT DATE = 3/14/2016	DATE -	REVISED -	

FIELD ENTRANCES (NONCOMMERCIAL RURAL)

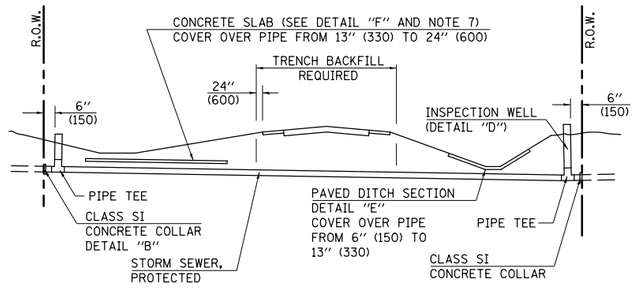
SCALE: NA | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	38
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



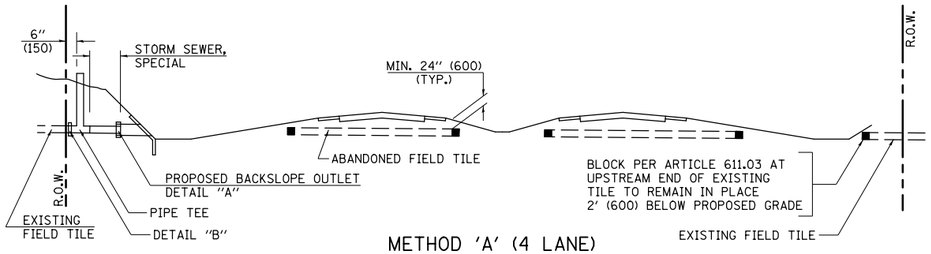
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



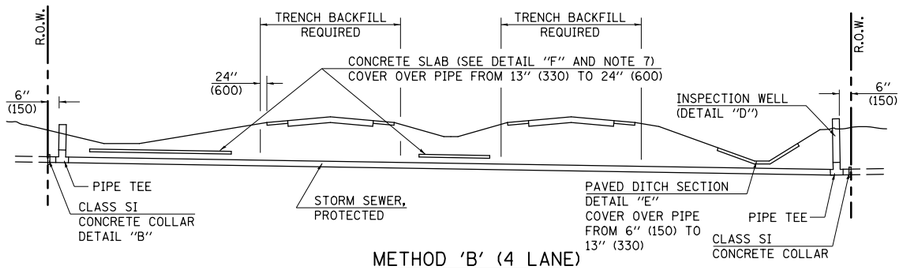
METHOD 'B' (2 LANE)

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



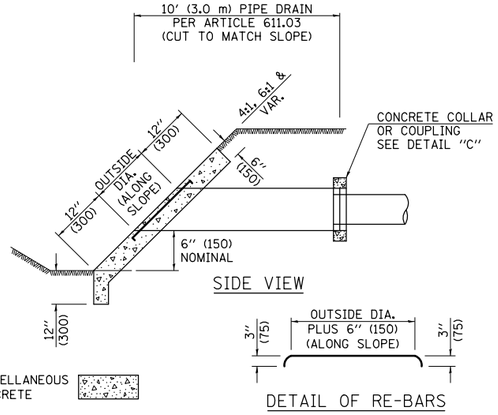
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

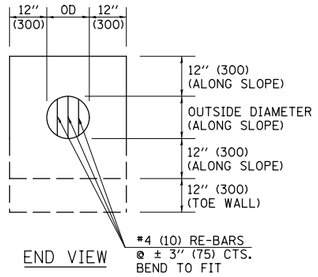


METHOD 'B' (4 LANE)

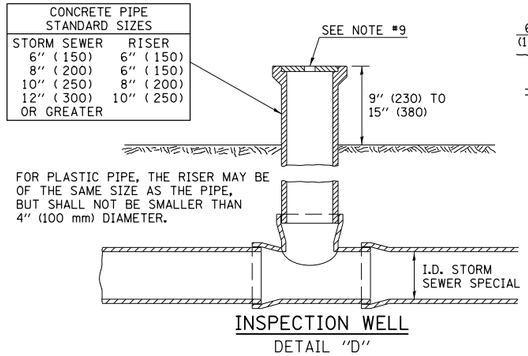
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



DETAIL OF RE-BARS

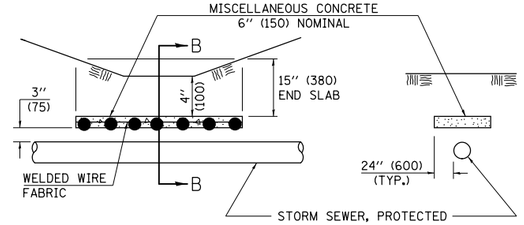


CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	



INSPECTION WELL

DETAIL "D"

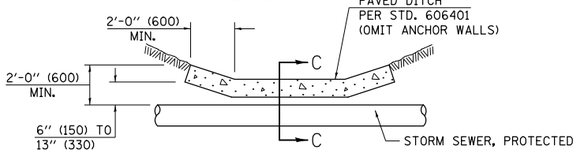


SLAB ELEVATION

SECTION B-B

CONCRETE SLAB

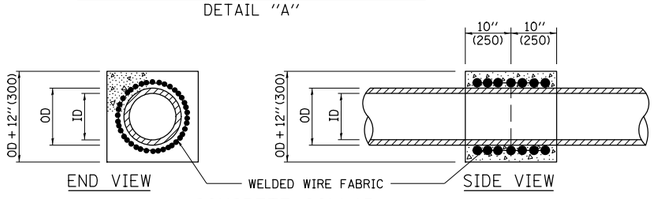
DETAIL "F"



PAVED DITCH ELEVATION

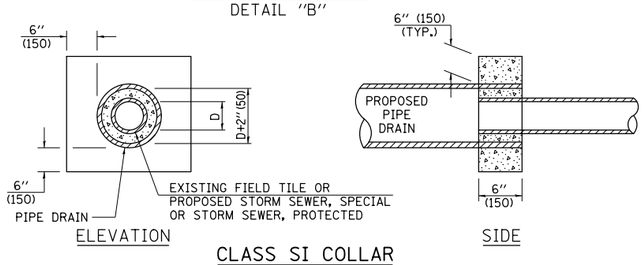
HEADWALL FOR BACKSLOPE OUTLET

DETAIL "A"



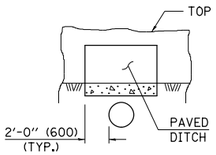
CONCRETE COLLAR

DETAIL "B"



CLASS SI COLLAR

DETAIL "C"



SECTION C-C

PAVED DITCH

DETAIL "E"

GENERAL NOTES

1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
2. 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".
3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
4. 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.
5. 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.
6. 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.
7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
9. 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.

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

DISTRICT 5 DETAIL NO. 61101011A

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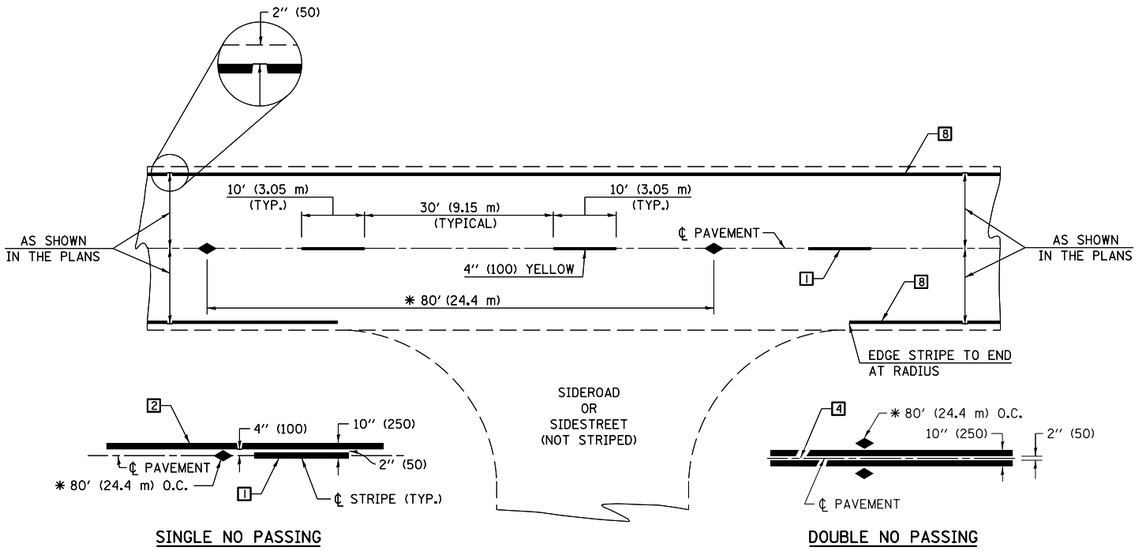
		DRAWN	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	39
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SINGLE NO PASSING

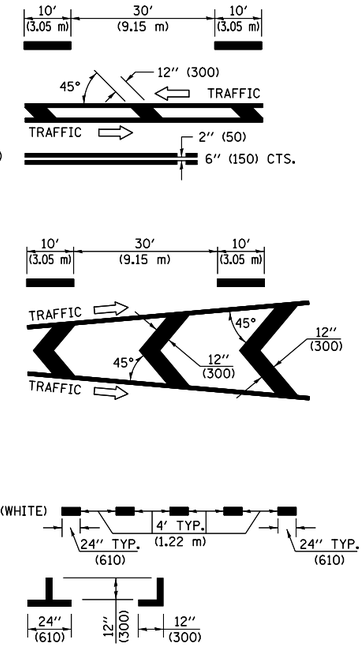
DOUBLE NO PASSING

✱ 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

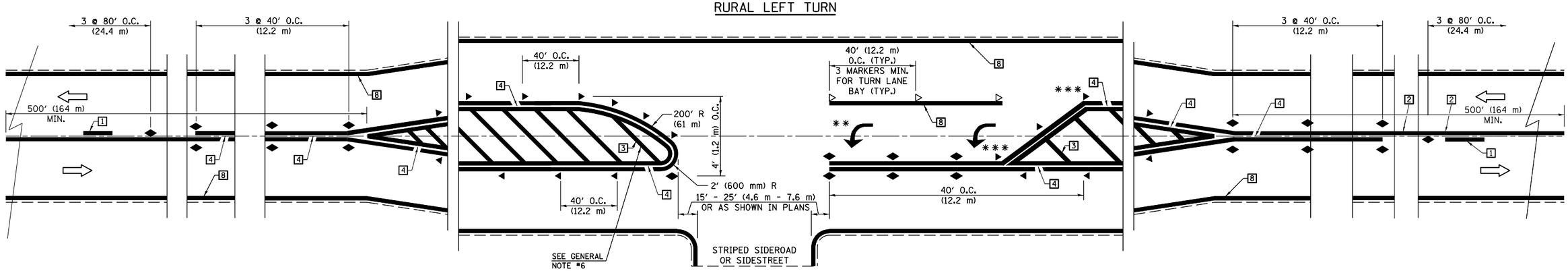
1. 4″ (100) SKIP-DASH (YELLOW)
2. 4″ (100) SOLID (YELLOW)
3. 12″ (300) DIAGONAL (YELLOW)
4. 4″ (100) DOUBLE YELLOW (NARROW)
5. RESERVED
6. RESERVED
7. 4″ (100) SKIP-DASH (WHITE)
8. 4″ (100) SOLID (WHITE)
9. 12″ (300) DIAGONAL (WHITE)
10. 6″ (150) SOLID (WHITE)
11. 24″ (600) STOP BAR (WHITE)
12. 8″ (200) 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. 7800AAAA

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D5070278DrawingData\Design\D570278-sht-details.dgn	USER NAME = bergaaj	DESIGNED -	REVISED - 11/06
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	PLOT SCALE = 40.0000 ′ / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 3/14/2016	DATE -	REVISED -

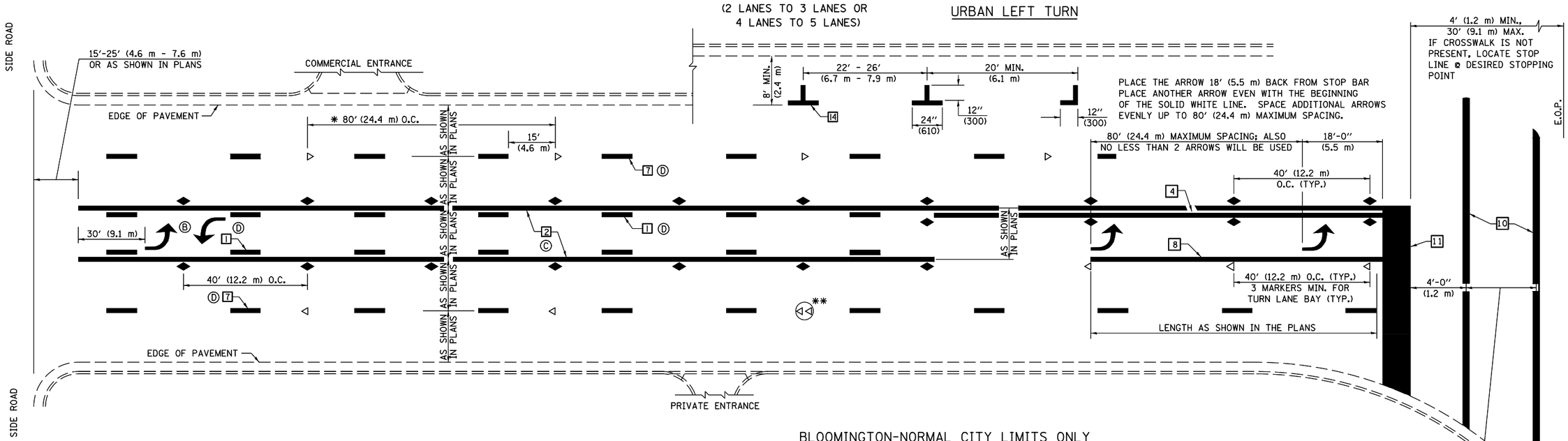
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	40
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN LEFT TURN



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

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

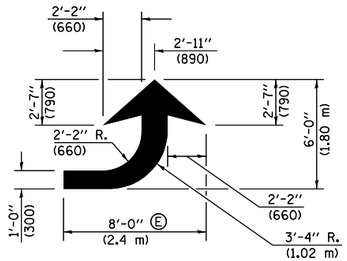
GENERAL NOTES:

Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.

Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.

Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.

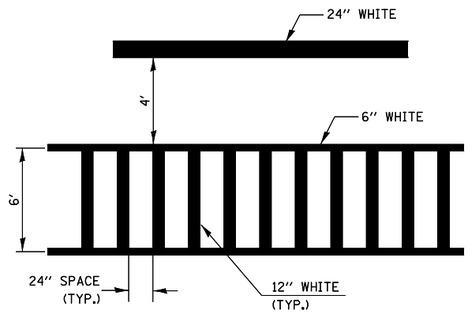
Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



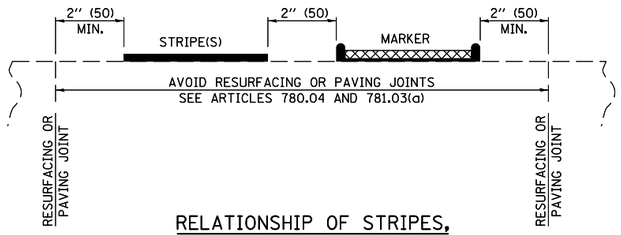
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m^2)
(WHITE)

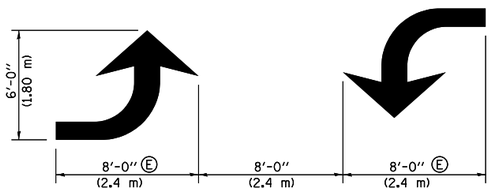
BLOOMINGTON-NORMAL CITY LIMITS ONLY



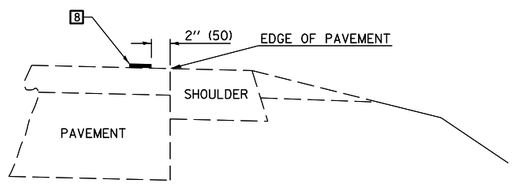
TYPICAL SPACING FOR
CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES,
MARKERS AND JOINTS



TYPICAL DOUBLE
TURN ARROWS (WHITE)



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

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

DISTRICT 5 DETAIL NO. 7800AAAA

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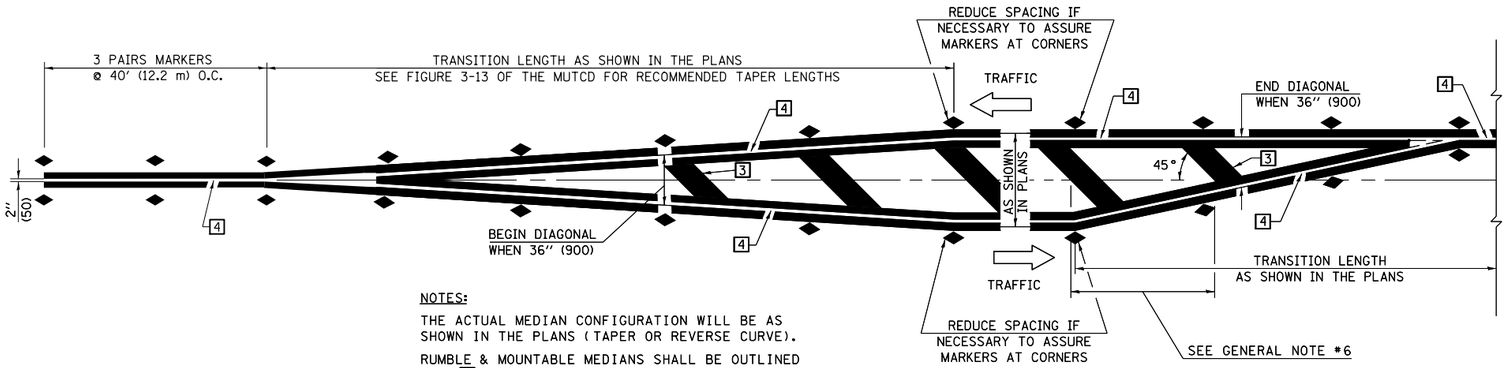
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	41
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

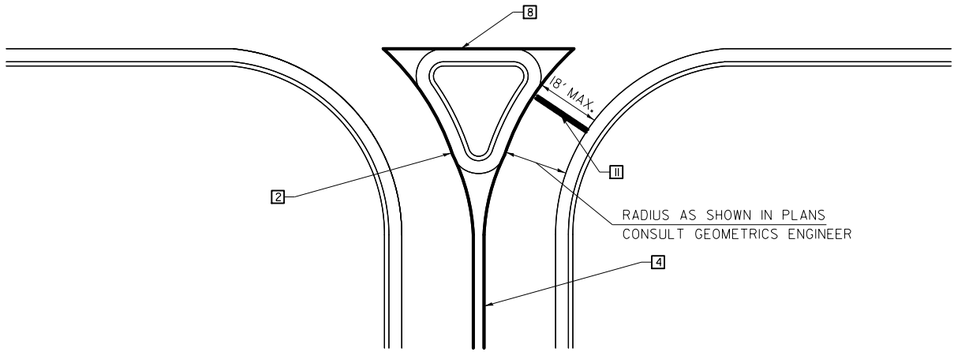
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).

RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

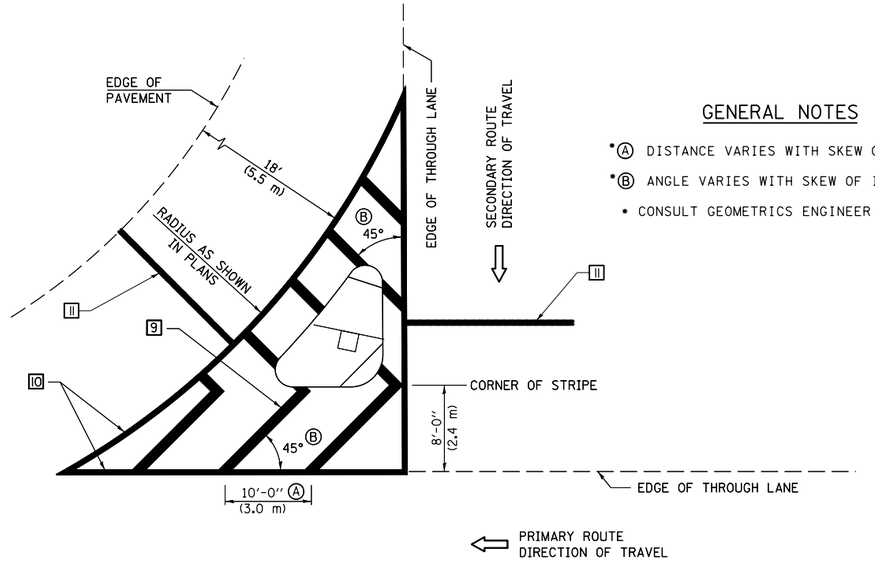
TYPICAL MEDIAN TRANSITIONS

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

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

ISLAND

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

DISTRICT 5 DETAIL NO. 7800AAAA

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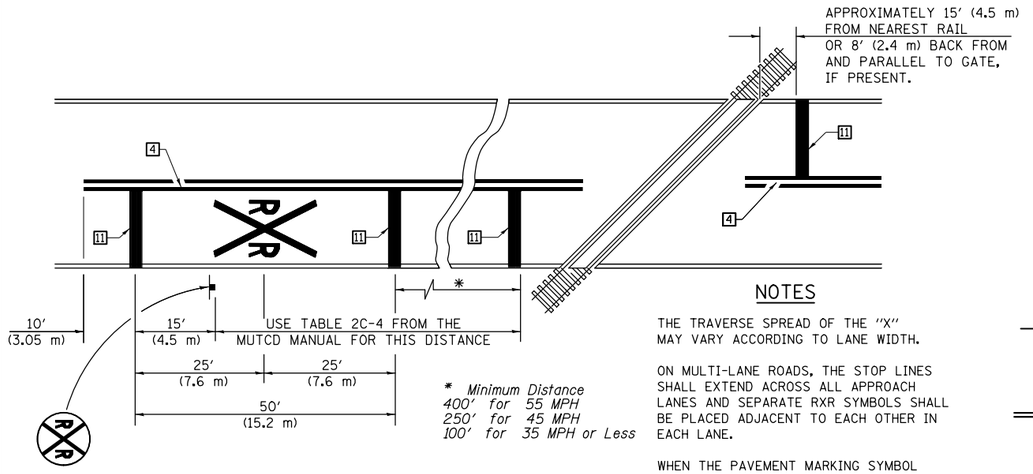
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 04/14 - JLA
	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	42
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

PAVEMENT MARKINGS AT
RAILROAD-HIGHWAY GRADE CROSSING

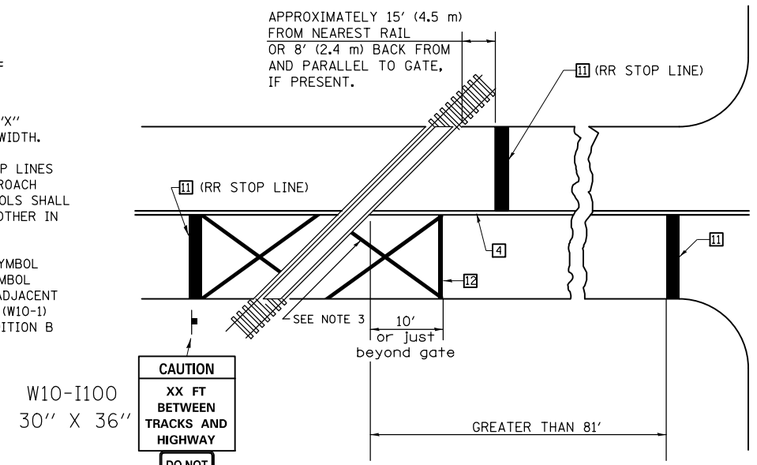
NOTES

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.

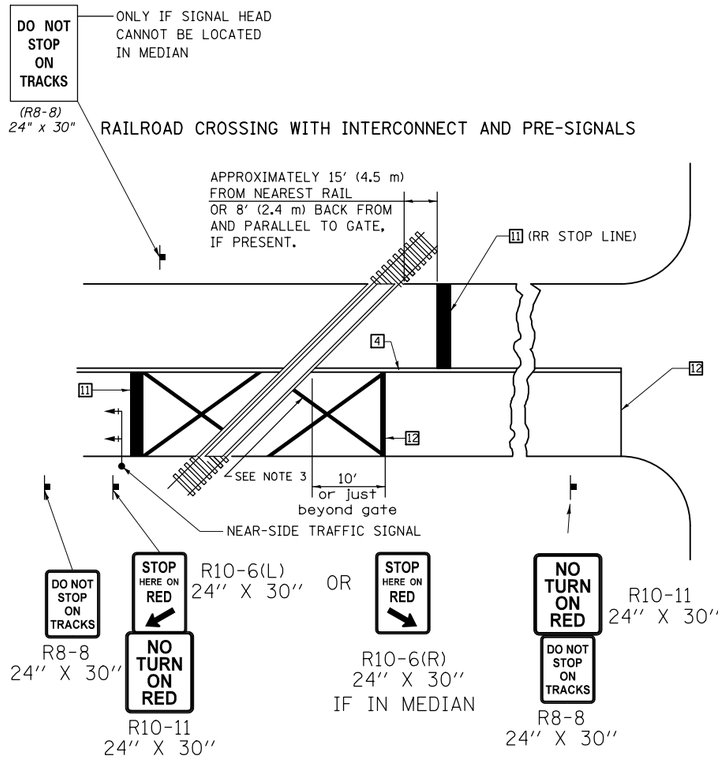
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

RAILROAD CROSSING WITH INTERCONNECT ONLY



W10-I100
30″ X 36″

R8-8
24″ X 30″



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS

R8-8
24″ X 30″

R10-6(L)
24″ X 30″

R10-11
24″ X 30″

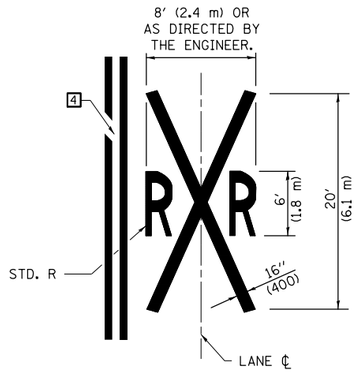
OR

R10-6(R)
24″ X 30″
IF IN MEDIAN

R10-11
24″ X 30″

R8-8
24″ X 30″

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR
RAILROAD-HIGHWAY GRADE CROSSING



ALTERNATE SIGNS

R10-6a(L)
24″ X 30″

R10-6a(R)
24″ X 30″

GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 6″ WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8′ CENTER TO CENTER.
4. 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.
5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

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

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

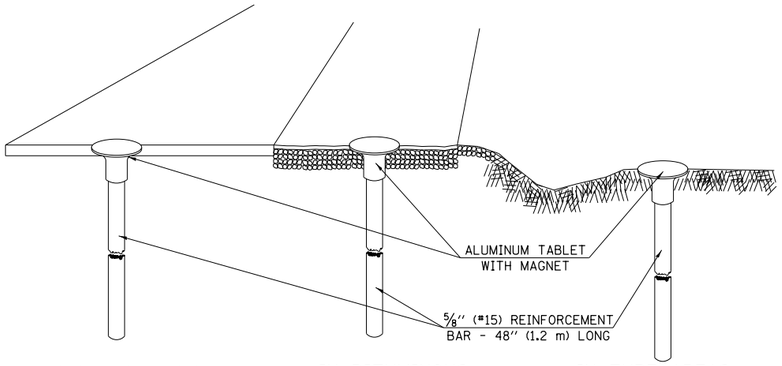
PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

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

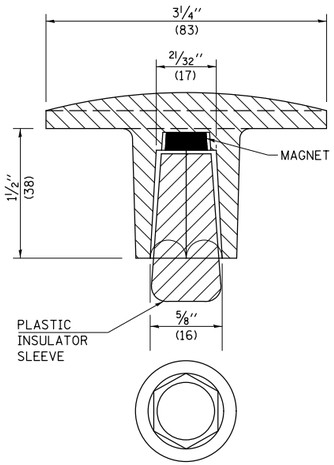
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	43
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



IN FLEXIBLE PAVEMENT OR SHOULDER | IN BITUMINOUS TREATED SURFACE | IN TURF AREAS WITHIN R.O.W.



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE 1 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE REINFORCEMENT BAR AND ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE.
2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. 3 1/4" (83 mm) CONVEX SURVEY CAP FOR 5/8" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1 1/2" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% (IN 2" (50 mm)). SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

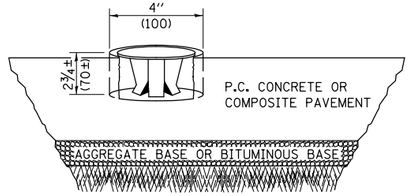
SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE 5/8" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR 5/8" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

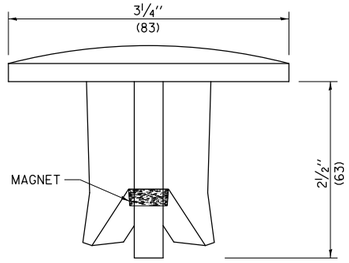
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



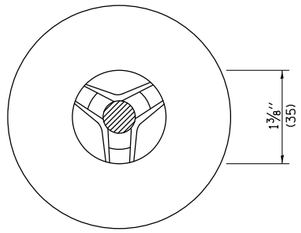
SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE 3 1/4" (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE FOR LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A 2 1/2" (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% (IN 2" (50 mm)). SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES. NO EXCEPTIONS.



SIDE VIEW



BOTTOM VIEW

THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

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

DISTRICT 5 DETAIL NO. XZ193AAA

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	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

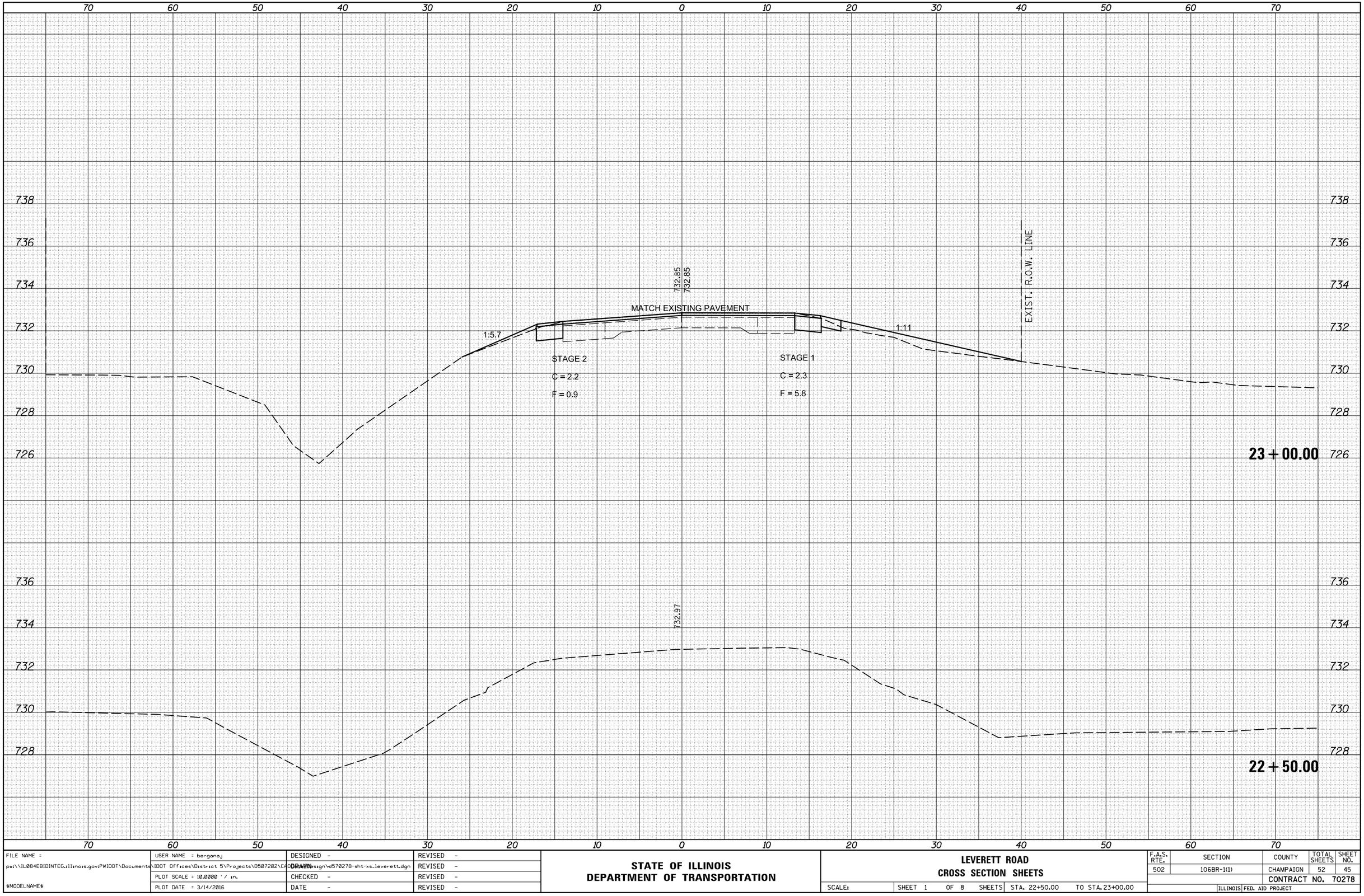
SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	44
		CONTRACT NO. 70278		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE



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

BY	DATE

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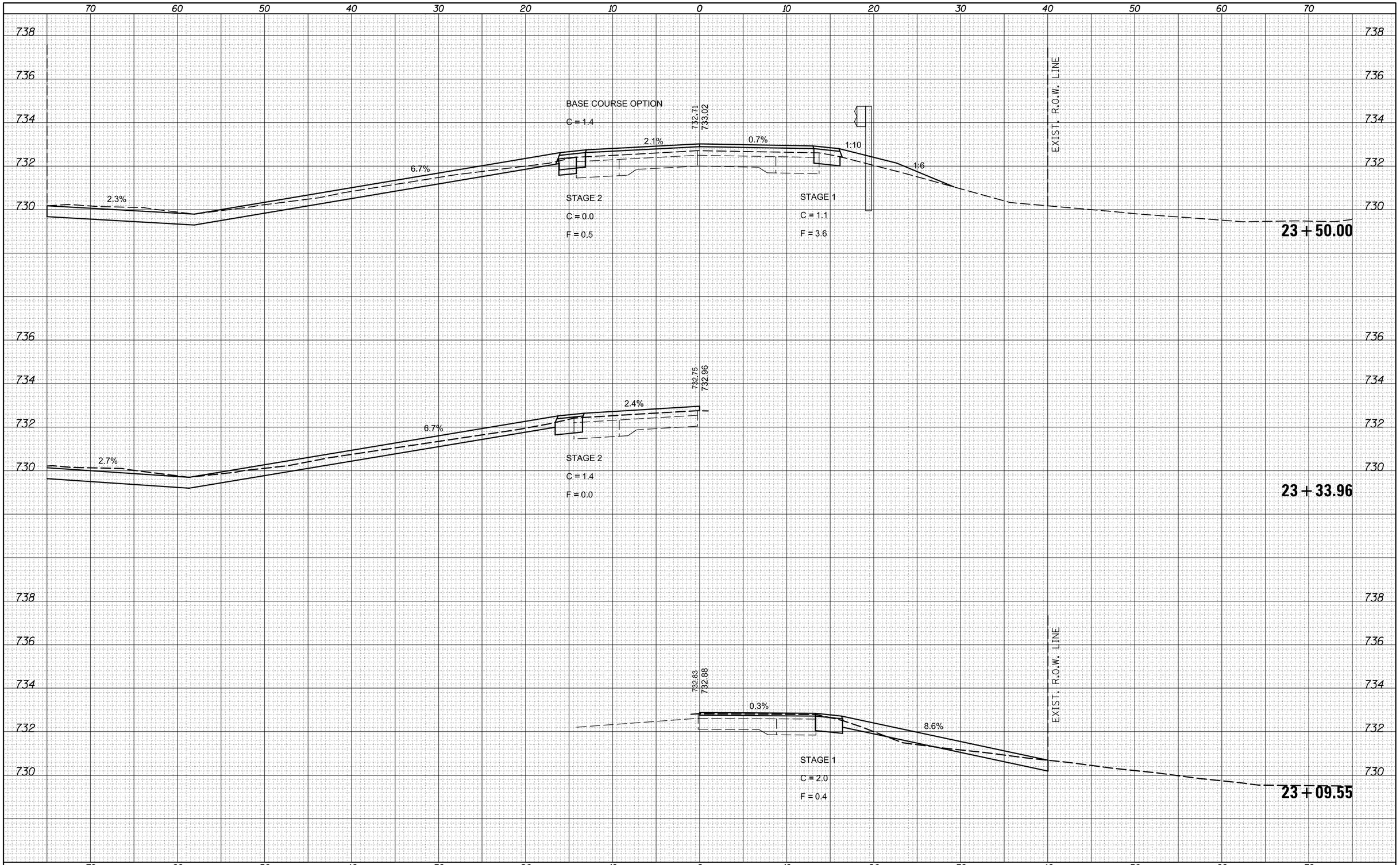
$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 1 OF 8 SHEETS | STA. 22+50.00 | TO STA. 23+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	45
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 2 OF 8 SHEETS | STA. 23+09.55 | TO STA. 23+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	46
		CONTRACT NO. 70278		
	ILLINOIS FED. AID PROJECT			

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

740 738 736 734 732 730 728

EXIST. R.O.W. LINE

BASE COURSE OPTION

C = 1.4

732.59

733.29

1:11.7

1:13.7

STAGE 2

C = 0.0

F = 9.6

STAGE 1

C = 3.7

F = 3.1

730.80

1:5.3

145 + 50.00

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

740 738 736 734 732 730 728

EXIST. R.O.W. LINE

BASE COURSE OPTION

C = 1.5

732.62

733.12

1:6

1:10

1:10

1:6

STAGE 2

C = 0.0

F = 5.9

STAGE 1

C = 0.9

F = 2.9

145 + 00.00

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	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 3 OF 8 SHEETS | STA. 145+00.00 | TO STA. 145+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	47
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

EXIST. R.O.W. LINE

EXIST. R.O.W. LINE

734 732 730 728 726 724 722 720 718 716 714

BASE COURSE OPTION

C = 1.1

732.64

733.35

1:8.8

1:11.8

STAGE 2

C = 0.0

F = 1.7

STAGE 1

C = 0.0

F = 3.4

719.31

718.81

718.73

719.23

145 + 89.50

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

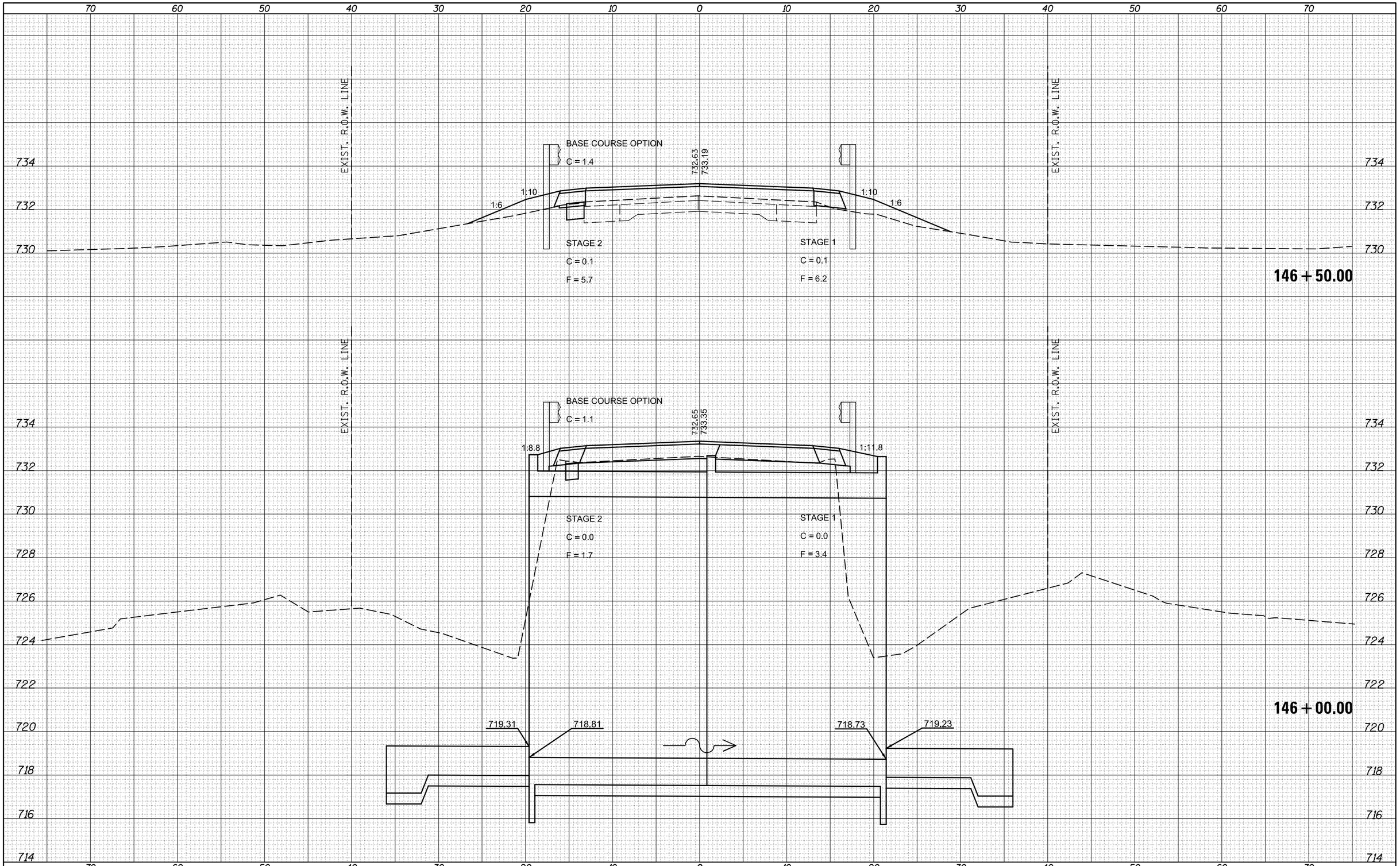
LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 4 OF 8 SHEETS | STA. 145+89.50 | TO STA. 145+89.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	48
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE



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

BY	DATE

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	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 5 OF 8 SHEETS | STA. 146+00.00 | TO STA. 146+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	49
		CONTRACT NO. 70278		
		ILLINOIS	FED. AID PROJECT	

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

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

740 738 736 734 732 730

EXIST. R.O.W. LINE

BASE COURSE OPTION

C = 1.5

732.56

733.00

10.7%

11.2%

STAGE 2

C = 0.3

F = 2.6

STAGE 1

C = 0.8

F = 0.0

EXIST. R.O.W. LINE

147 + 00.00

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

740 738 736 734 732 730

EXIST. R.O.W. LINE

BASE COURSE OPTION

C = 1.5

732.56

733.02

10.8%

STAGE 2

C = 0.3

F = 3.3

146 + 94.72

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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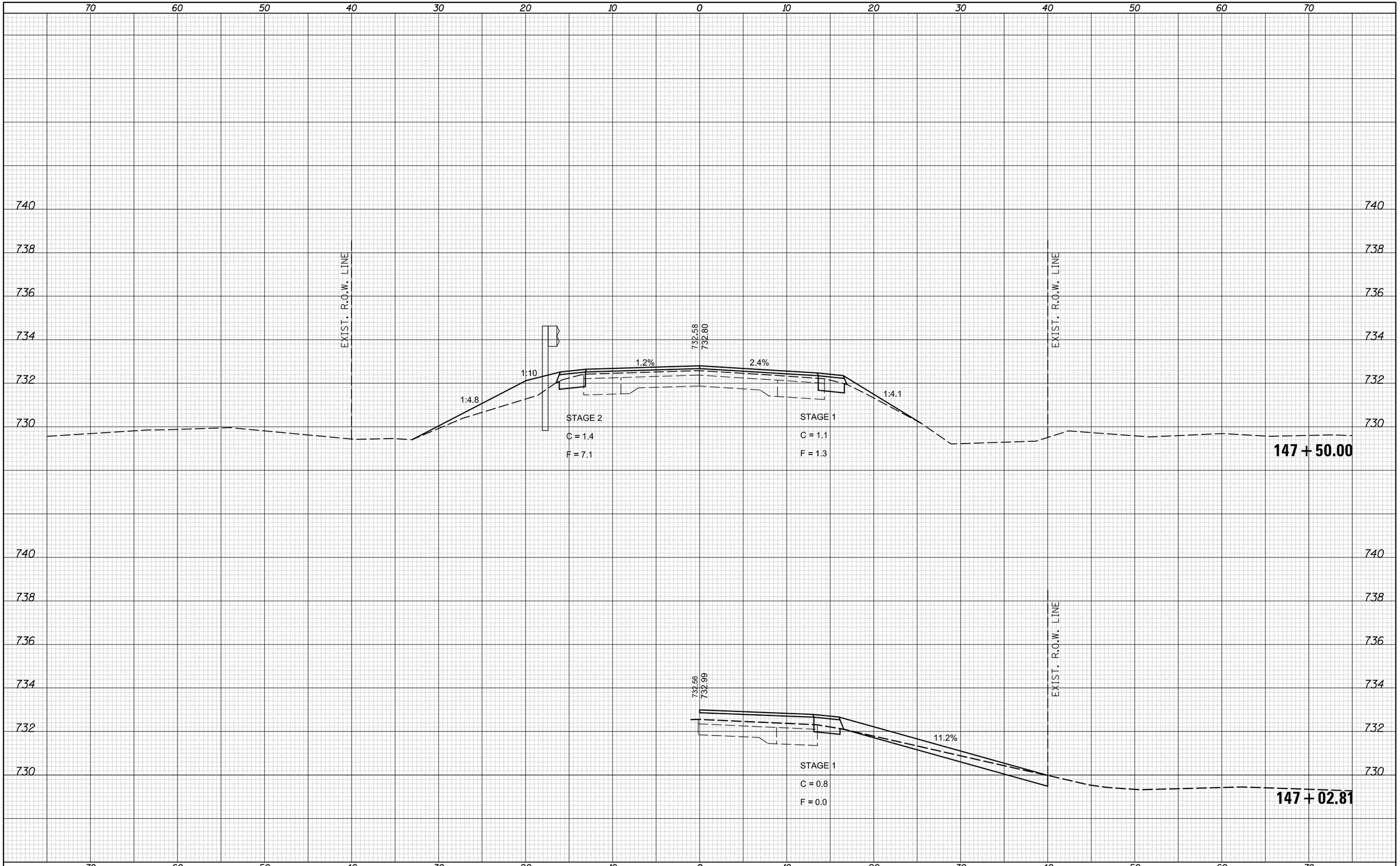
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 6 OF 8 SHEETS | STA. 146+94.72 | TO STA. 147+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	50
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

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



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SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

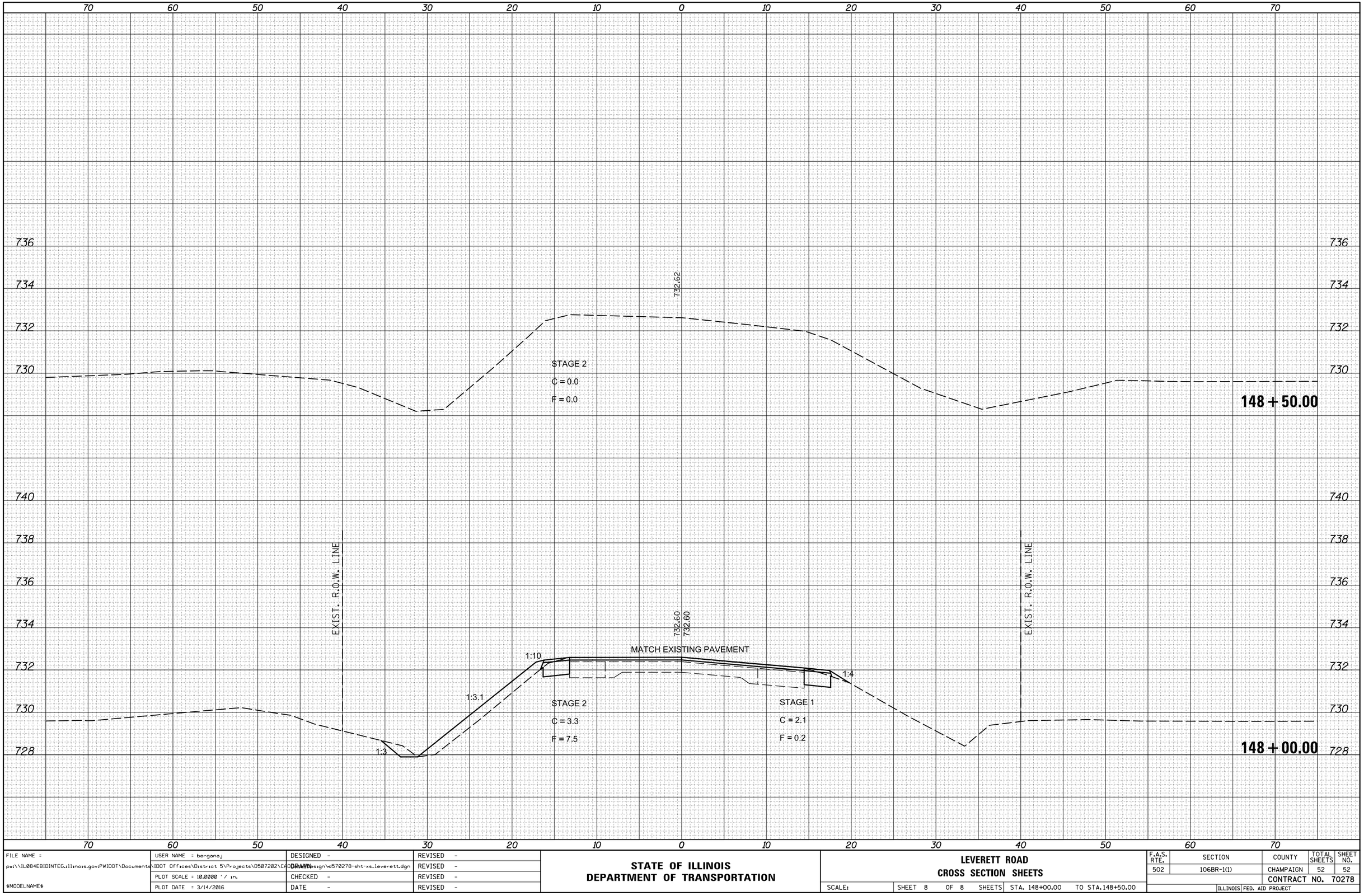
LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 7 OF 8 SHEETS | STA. 147+02.81 | TO STA. 147+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	51
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		

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

BY	DATE



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$MODELNAME$	PLOT DATE = 3/14/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEVERETT ROAD
CROSS SECTION SHEETS

SCALE: | SHEET 8 OF 8 SHEETS | STA. 148+00.00 | TO STA. 148+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
502	106BR-1(1)	CHAMPAIGN	52	52
		CONTRACT NO. 70278		
	ILLINOIS	FED. AID PROJECT		