

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	48	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74280		

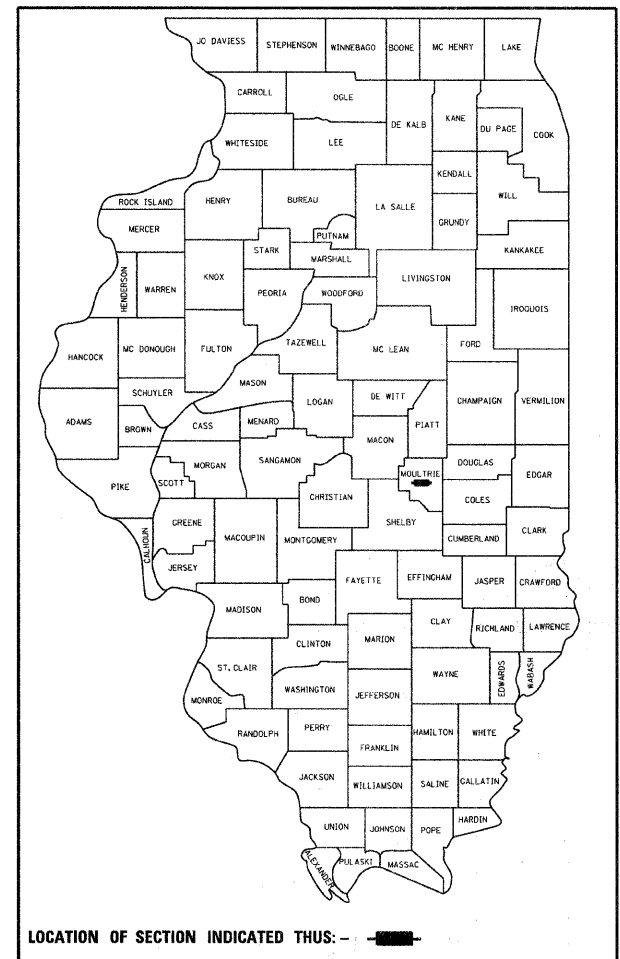
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

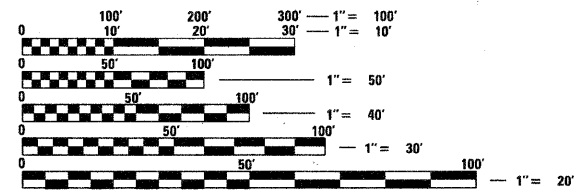
F.A.P. ROUTE 320 (IL. RTE. 121)
SECTION (102BY)B-1
PROJECT ACBRF-0320(036)
BRIDGE REPLACEMENT
MOULTRIE COUNTY
C-97-113-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 5,500 (2010)



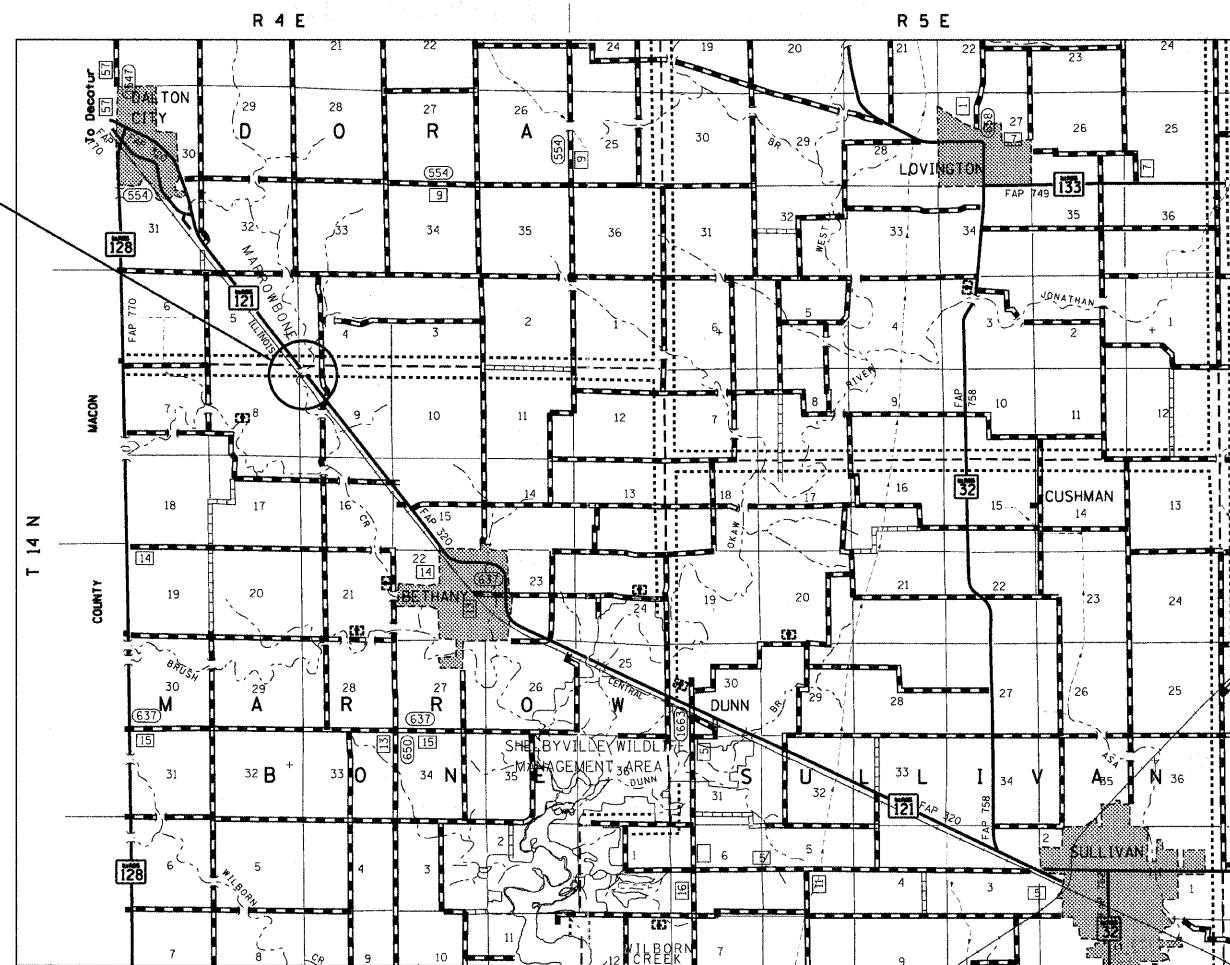
FAP 320 (IL 121)
SECTION (102BY)B-1
MOULTRIE COUNTY
STRUCTURE # 070-0050
STATION 139+14.00



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

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: KEVIN BRADY
TOWNSHIP: DORA, MARROWBONE
CONTRACT NO. 74280



GROSS LENGTH = 500 FT. = .095 MILE
NET LENGTH = 500 FT. = .095 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 11 20 11
Gregory J. Brunkel
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER

October 14 20 11
Scott E. Stett, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

October 14 20 11
Christine M. Road
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	ITEM
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2	INDEX OF SHEETS & GENERAL NOTES
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7	DETAILS
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38-39	EROSION CONTROL
40-48	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 48.

STD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-01	PERMANENT SURVEY MARKERS
668001-01	US GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS, RESETTING METHOD
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF ROAD OPERATIONS, 2L, 2W, 15' TO EDGE OF PAVEMENT
701301-04	LANE CLOSURE - SHORT TERM OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE - MOVING OPERATIONS - DAY ONLY
701321-11	LANE CLOSURE 2L, 2W BRIDGE REPAIR WITH BARRIER
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2011; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN SECTION (102BY)B-1 CONSISTS OF THE COMPLETE REMOVAL AND REPLACEMENT OF EXISTING STRUCTURE NUMBER 070-0001 WITH A NEW STRUCTURE, BRIDGE APPROACH PAVEMENTS, HOT-MIX ASPHALT RESURFACING, RIP RAP, GUARDRAIL, PAVEMENT MARKING AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THE WORK SHALL BE COMPLETED UTILIZING STAGE CONSTRUCTION WITH TEMPORARY TRAFFIC SIGNALS. THE EXISTING STRUCTURE # 070-0001, CARRIES ILLINOIS ROUTE 121 OVER MARROWBONE CREEK AND IS LOCATED APPROXIMATELY 2 MILES SOUTHEAST OF DALTON CITY IN MOULTRIE COUNTY.

THE COST OF TEMPORARY PAVEMENT MARKING FOR STAGED CONSTRUCTION IS INCLUDED IN THE COST OF STANDARD 701321. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACEMENT OR REMOVAL AS STATED IN ARTICLE 703.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE I & II OF STANDARD 701321 WILL BE REMOVED. THE REMOVED MARKINGS WILL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 368 FEET OF YELLOW AND 1288 FEET OF WHITE.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 10 TWO-WAY AMBER MARKERS.

GENERAL NOTES (Cont'd)

THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

THE CONTRACTOR SHALL USE EITHER RC-70, SS1H, OR SS1HP, APPLIED AT THE RATE DIRECTED BY THE ENGINEER, FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL BITUMINOUS ITEMS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY DAMAGED UTILITIES AS A RESULT OF WORK IN THE AREA.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

THE EXISTING TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) END SECTIONS, INCLUDING POSTS AND ALL HARDWARE, SHALL BE SALVAGED AND WILL BECOME THE PROPERTY OF THE STATE UPON REMOVAL. THE RESIDENT ENGINEER SHALL CONTACT DOUG RUDOLPHI, OPERATIONS FIELD ENGINEER, TO MAKE ARRANGEMENTS FOR MAINTENANCE TO PICK UP THE SALVAGED END SECTIONS.

ALL EXCAVATION ABOVE THE BOTTOM OF THE RIPRAP EXCAVATION LINE SHALL BE INCLUDED IN THE COST OF STONE RIPRAP, CLASS A4 AND NO ADDITIONAL COMPENSATION WILL BE PERMITTED.

ALL WORK NECESSARY TO ATTACH THE 4" PIPE DRAINS TO THE ABUTMENT DRAIN PIPES, TRENCHING IN THE PIPE DRAINS AND INSTALLING THE PIPE INTO THE CONCRETE HEADWALLS IS INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE DRAIN 4". THE ESTIMATED QUANTITY OF 62' WAS CALCULATED BY TAKING THE DIFFERENCE BETWEEN THE STRUCTURE PIPE UNDERDRAIN ELEVATIONS AND THE TOE OF SLOPE ELEVATIONS FROM THE CROSS SECTIONS.

A TYPE II CAST IN PLACE PERMANENT SURVEY MARKER SHALL BE PLACED NEAR THE PROPOSED STRUCTURE. THE TABLET STYLE SHALL CONFORM TO STANDARD 667101-01 AND THE CAST IN PLACE BASE WILL CONFORM TO STANDARD 668001-01. THE LOCATION OF THE SURVEY MARKER SHALL BE DETERMINED BY THE ENGINEER AND THE CHIEF OF SURVEYS. THE SURVEY MARKER LOCATION WILL ALSO BE CROSS TIED AND ELEVATED BY IDOT PERSONNEL.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

BINDER COURSE	
APPLICATION:	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	N/A

SURFACE COURSE (1 1/2")	
APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX #C N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIXTURE C

BITUMINOUS SHOULDERS	
APPLICATION:	HOT-MIX BITUMINOUS SHOULDERS
PG GRADE:	PG 58-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 30
MIXTURE COMPOSITION:	IL-19.0 L
FRICTION AGGREGATE:	N/A

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
APPLICATION:	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

AGGREGATE SHOULDERS	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL./SQ. YD.
AGGREGATE (PRIME COAT)	4 LBS./SQ. YD.
HOT-MIX ASPHALT	112 LBS./SQ. YD/INCH

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND GENERAL NOTES	F.A.P. RTE. 320	SECTION (102BY)B-1	COUNTY MOULTRIE	TOTAL SHEETS 48	SHEET NO. 2
cd:\pw\work\pwwork\swartzw\dms52812\077	280-shr-index.dgn	DRAWN -	REVISED -							
	PLOT SCALE = 40,0000' / 1"	CHECKED -	REVISED -							
	PLOT DATE = 8/8/2011	DATE -	REVISED -		SCALE: NA		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.
ILLINOIS FED. AID PROJECT										

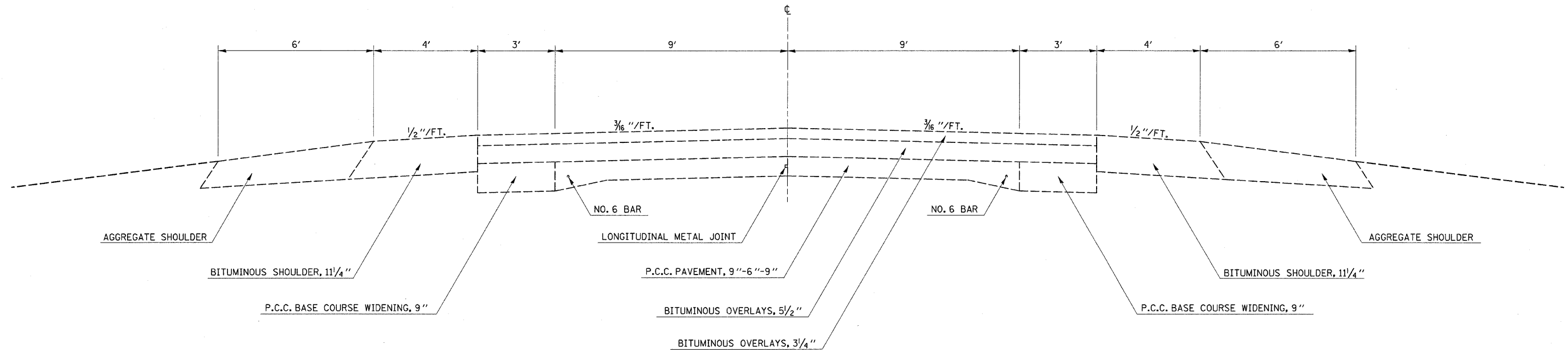
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT		80% FED. 20% STATE 0011
20200100	EARTH EXCAVATION	CU YD	763	763
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	27	27
28000305	TEMPORARY DITCH CHECKS	FOOT	48	48
28000400	PERIMETER EROSION BARRIER	FOOT	1000	1000
28100207	STONE RIPRAP, CLASS A4	TON	749	749
28200200	FILTER FABRIC	SQ YD	833	833
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	119	119
40600300	AGGREGATE (PRIME COAT)	TON	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	213	213
40600990	TEMPORARY RAMP	SQ YD	239	239
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	307	307
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	100	100
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	56	56
44000100	PAVEMENT REMOVAL	SQ YD	402	402
44201863	CLASS D PATCHES, TYPE II, 18 INCH	SQ YD	26	26
44201867	CLASS D PATCHES, TYPE III, 18 INCH	SQ YD	18	18
48101200	AGGREGATE SHOULDERS, TYPE B	TON	208	208
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	92	92
50300225	CONCRETE STRUCTURES	CU YD	65.2	65.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	290.3	290.3
50300260	BRIDGE DECK GROOVING	SQ YD	650	650
50300280	CONCRETE ENCASEMENT	CU YD	4.2	4.2
50300300	PROTECTIVE COAT	SQ YD	797	797
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	1368	1368
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	71980	71980
50800515	BAR SPLICERS	EACH	676	676
51201610	FURNISHING STEEL PILES HP12X63	FOOT	760	760
51202305	DRIVING PILES	FOOT	760	760
51203610	TEST PILE STEEL HP12X63	EACH	2	2
51500100	NAME PLATES	EACH	1	1
52100520	ANCHOR BOLTS, 1"	EACH	24	24
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	96.2	96.2
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4	4

SUMMARY OF QUANTITIES (Cont'd)			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT		80% FED. 20% STATE 0011
60100905	PIPE DRAINS 4"	FOOT	62	62
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	300	300
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	567	567
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	184	184
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1656	1656
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	24	24
70400100	TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1656	1656
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2	2
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	9	9
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	2	2
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	484	484
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	156	156
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1	0.1
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	974	974
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	30	30
Z0026407	TEMPORARY SHEET PILING	SQ FT	1165	1165
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	168	168

* SPECIALTY ITEM

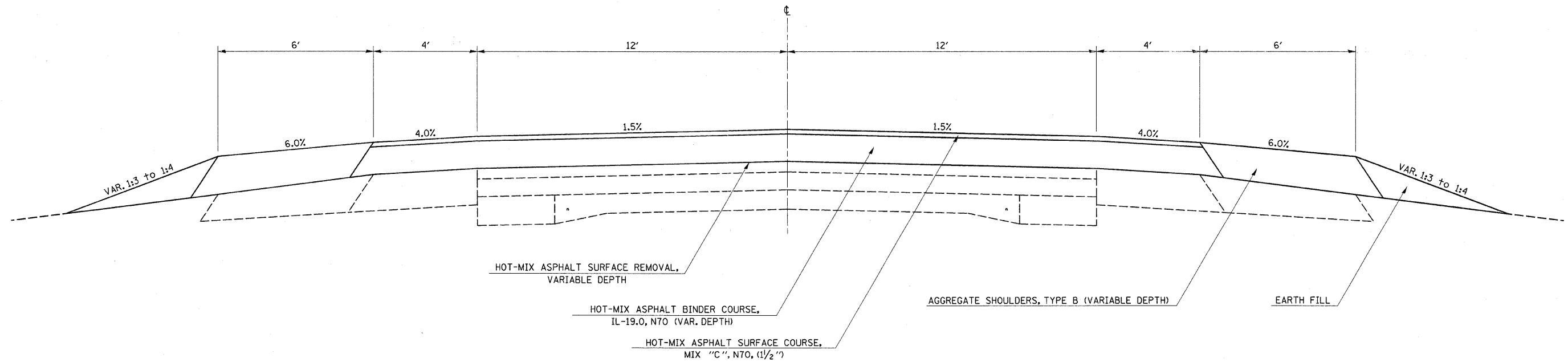
FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\swartzw\dms52812\d774280-sht-soq.dgn		DRAWN -	REVISED -			320	(102BY)B-1	MOULTRIE	48	3	
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74280					
	PLOT DATE = 8/8/2011	DATE -	REVISED -			SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

EXISTING TYPICAL CROSS SECTION



PROPOSED TYPICAL CROSS SECTION

STA. 137+50 TO STA. 138+31
 STA. 139+97 TO STA. 142+50



FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwi\dot\swartzw\dms52812\d774	280-shr\typicals.dgn	DRAWN -	REVISED -		SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	320	(102BY)B-1	MOULTRIE	48	4
	PLOT SCALE = 20.0000' / 1" IN.	CHECKED -	REVISED -					CONTRACT NO. 74280				
	PLOT DATE = 8/9/2011	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE		LENGTH	AVERAGE PAVEMENT & SHOULDER WIDTH	AREA	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP
STATION TO STATION		FOOT	FOOT	SQ YD	GALLON	TON	TON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD
137+50.00	TO 137+80.00	30.0	32.0	106.7	10.7	0.2	0.0	9.0	9.1	0.0	0.0	106.7	13.3
137+80.00	TO 138+31.00	51.0	32.0	181.3	18.1	0.4	40.6	15.2	29.0	181.3	0.0	0.0	63.0
138+31.00	TO 139+97.00	166.0									55.8		
139+97.00	TO 142+20.00	223.0	32.0	792.9	79.3	1.6	266.4	66.6	160.8	792.9	0.0	0.0	149.3
142+20.00	TO 142+50.00	30.0	32.0	106.7	10.7	0.2	0.0	9.0	9.1	0.0	0.0	106.7	13.3
TOTALS				1188.0	119.0	2.0	307.0	100.0	208.0	974.0	56.0	213.0	239.0

GUARDRAIL SCHEDULE		GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKERS - DIRECT APPLIED
LOCATION		FOOT	EACH	FOOT	FOOT	EACH	EACH	EACH
NORTHEAST CORNER		89.0	1.0	12.5	1.0			1.0
SOUTHEAST CORNER		189.0	1.0	125.0	1.0			1.0
NORTHWEST CORNER		189.0	1.0	125.0	1.0			1.0
SOUTHWEST CORNER		100.0	1.0	37.5	1.0			1.0
LEFT SIDE						4.0	1.0	
RIGHT SIDE						5.0	1.0	
TOTALS=		567.0	4.0	300.0	4.0	9.0	2.0	4.0

PAVEMENT MARKING SCHEDULE		LENGTH	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	SHORT-TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	PAVEMENT MARKING REMOVAL
STATION TO STATION		FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	SQ FT
135+48.00	TO 138+31.00	283.0	636.0	636.0	84.0	9.3	4.0	0.0	212.0
138+31.00	TO 139+95.00	164.0	368.0	368.0	16.0	5.3	0.0	2.0	54.7
139+95.00	TO 142+86.00	291.0	652.0	652.0	84.0	9.3	4.0	0.0	217.3
TOTALS			1656.0	1656.0	184.0	24.0	8.0	2.0	484.0

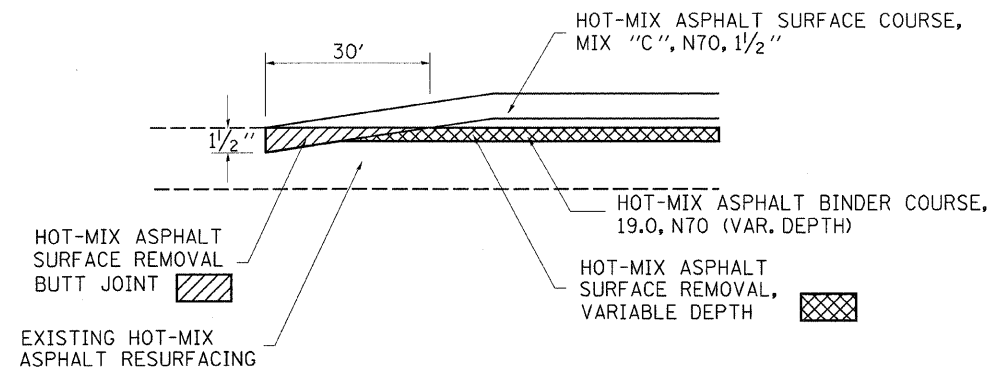
PAVEMENT PATCHING SCHEDULE		CLASS D PATCHES, TYPE II 18 INCH	CLASS D PATCHES, TYPE III 18 INCH
LOCATION		SQ YD	SQ YD
IL 121 (RT & LT)		26.0	18.0
TOTALS		26.0	18.0

PATCH THICKNESS BASED ON THE MAXIMUM EXISTING PAVEMENT THICKNESS

SEEDING & FERTILIZER SCHEDULE	SEEDING, CLASS 2 (SPECIAL)	TEMPORARY EROSION CONTROL SEEDING	NITROGEN FERTILIZER NURTIENT *	PHOSPHORUS FERTILIZER NURTIENT *	POTASSIUM FERTILIZER NURTIENT *	MULCH, METHOD 2 *	AGRICULTURAL GROUND LIMESTONE *
	STATION TO STATION	ACRE	POUND	POUND	POUND	POUND	ACRE
136+00.0 TO 136+25.0	0.00	0.00	0.13	0.13	0.13	0.00	0.00
136+25.0 TO 136+50.0	0.00	0.29	0.26	0.26	0.26	0.00	0.01
136+50.0 TO 136+75.0	0.00	0.21	0.19	0.19	0.19	0.00	0.00
136+75.0 TO 137+00.0	0.00	0.09	0.09	0.09	0.09	0.00	0.00
137+00.0 TO 137+25.0	0.00	0.06	0.05	0.05	0.05	0.00	0.00
137+25.0 TO 137+50.0	0.00	0.03	0.03	0.03	0.03	0.00	0.00
137+50.0 TO 137+75.0	0.00	0.08	0.07	0.07	0.07	0.00	0.00
137+75.0 TO 138+00.0	0.00	0.25	0.22	0.22	0.22	0.00	0.00
138+00.0 TO 138+25.0	0.01	0.79	0.71	0.71	0.71	0.01	0.02
138+25.0 TO 138+50.0	0.02	1.99	1.79	1.79	1.79	0.02	0.04
138+50.0 TO 138+57.0	0.01	0.54	0.49	0.49	0.49	0.01	0.01
139+71.0 TO 139+75.0	0.00	0.13	0.12	0.12	0.12	0.00	0.00
139+75.0 TO 140+00.0	0.01	0.68	0.61	0.61	0.61	0.01	0.01
140+00.0 TO 140+25.0	0.01	0.74	0.67	0.67	0.67	0.01	0.01
140+25.0 TO 140+50.0	0.01	0.59	0.53	0.53	0.53	0.01	0.01
140+50.0 TO 140+75.0	0.00	0.47	0.42	0.42	0.42	0.00	0.01
140+75.0 TO 141+00.0	0.00	0.39	0.35	0.35	0.35	0.00	0.01
141+00.0 TO 141+25.0	0.00	0.33	0.30	0.30	0.30	0.00	0.01
141+25.0 TO 141+50.0	0.00	0.25	0.22	0.22	0.22	0.00	0.00
141+50.0 TO 141+75.0	0.00	0.29	0.26	0.26	0.26	0.00	0.01
141+75.0 TO 142+00.0	0.00	0.36	0.33	0.33	0.33	0.00	0.01
142+00.0 TO 142+25.0	0.00	0.25	0.23	0.23	0.23	0.00	0.01
142+25.0 TO 142+50.0	0.00	0.07	0.06	0.06	0.06	0.00	0.00
142+50.0 TO 0+00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	0.10	27.00	8.00	8.00	8.00	0.10	0.20

* FOR INFORMATION ONLY: NOT A PAY ITEM

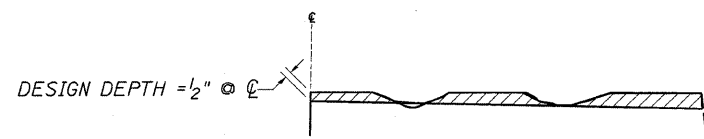
EARTHWORK SCHEDULE	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EARTH FILL	EARTHWORK BALANCE, WASTE (+) OR SHORTAGE (-)
	STATION TO STATION	CU YD	CU YD	CU YD
137+50.00 TO 137+75.00	0.0	0.0	0.1	-0.1
137+75.00 TO 138+00.00	0.0	0.0	0.6	-0.6
138+00.00 TO 138+25.00	0.0	0.0	3.1	-3.1
138+25.00 TO 138+50.00	0.0	0.0	16.1	-16.1
138+50.00 TO 138+67.00	0.0	0.0	18.4	-18.4
BRIDGE	763.0	572.3	0.0	+572.3
139+61.00 TO 139+75.0	0.0	0.0	2.5	-2.5
139+75.00 TO 140+00.0	0.0	0.0	4.5	-4.5
140+00.00 TO 140+25.0	0.0	0.0	3.8	-3.8
140+25.00 TO 140+50.0	0.0	0.0	2.7	-2.7
140+50.00 TO 140+75.0	0.0	0.0	1.8	-1.8
140+75.00 TO 141+00.0	0.0	0.0	1.1	-1.1
141+00.00 TO 141+25.0	0.0	0.0	0.8	-0.8
141+25.00 TO 141+50.0	0.0	0.0	0.6	-0.6
141+50.00 TO 141+75.0	0.0	0.0	0.4	-0.4
141+75.00 TO 142+00.0	0.0	0.0	0.4	-0.4
142+00.00 TO 142+25.0	0.0	0.0	0.3	-0.3
142+25.00 TO 142+50.0	0.0	0.0	0.1	-0.1
TOTALS	763.0	572.0	57.0	+515.0



BUTT JOINT DETAIL

STA. 137+50 TO STA. 137+80
 STA. 142+20 TO STA. 142+50

NOTE: NOT DRAWN TO SCALE

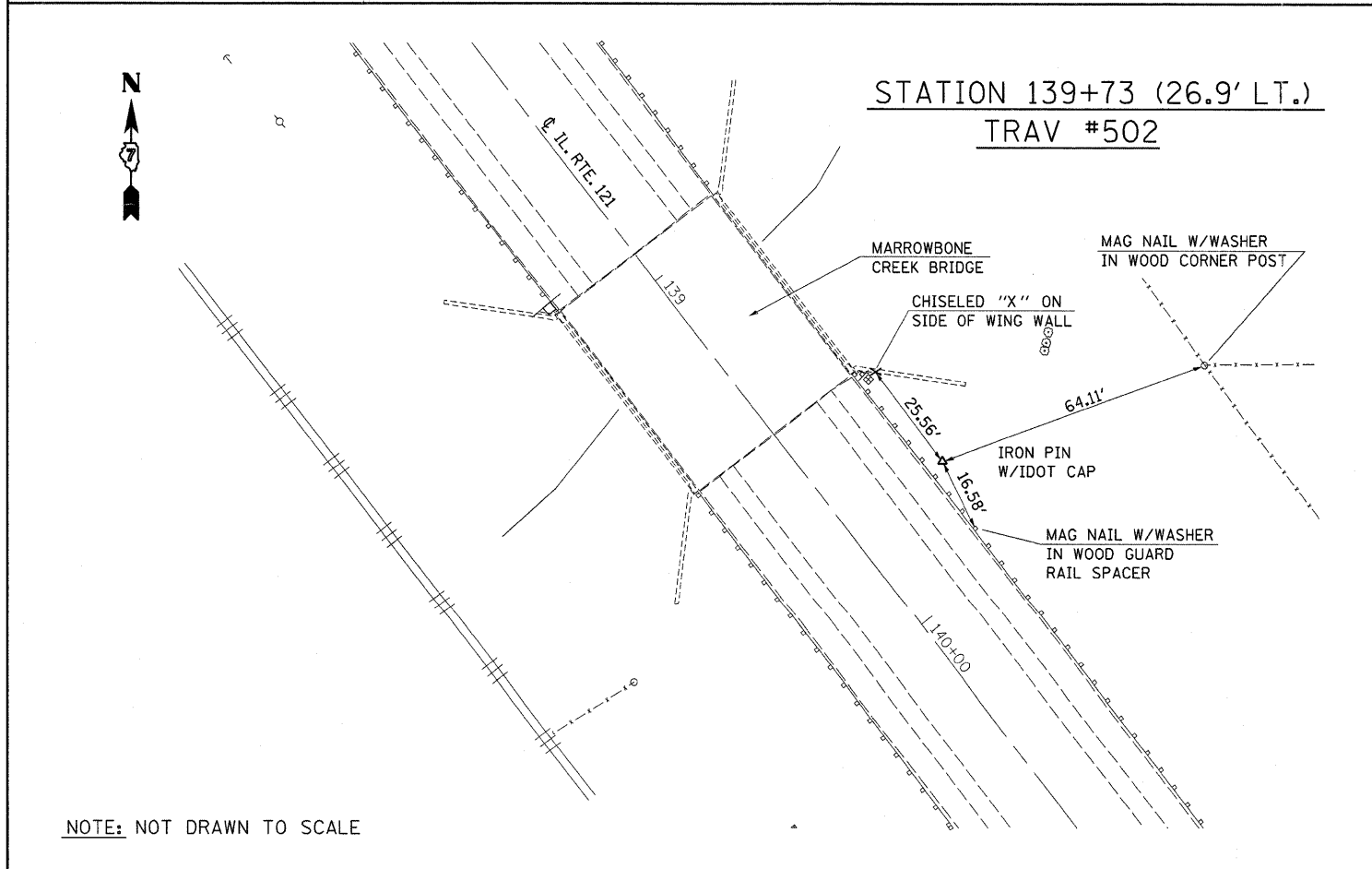
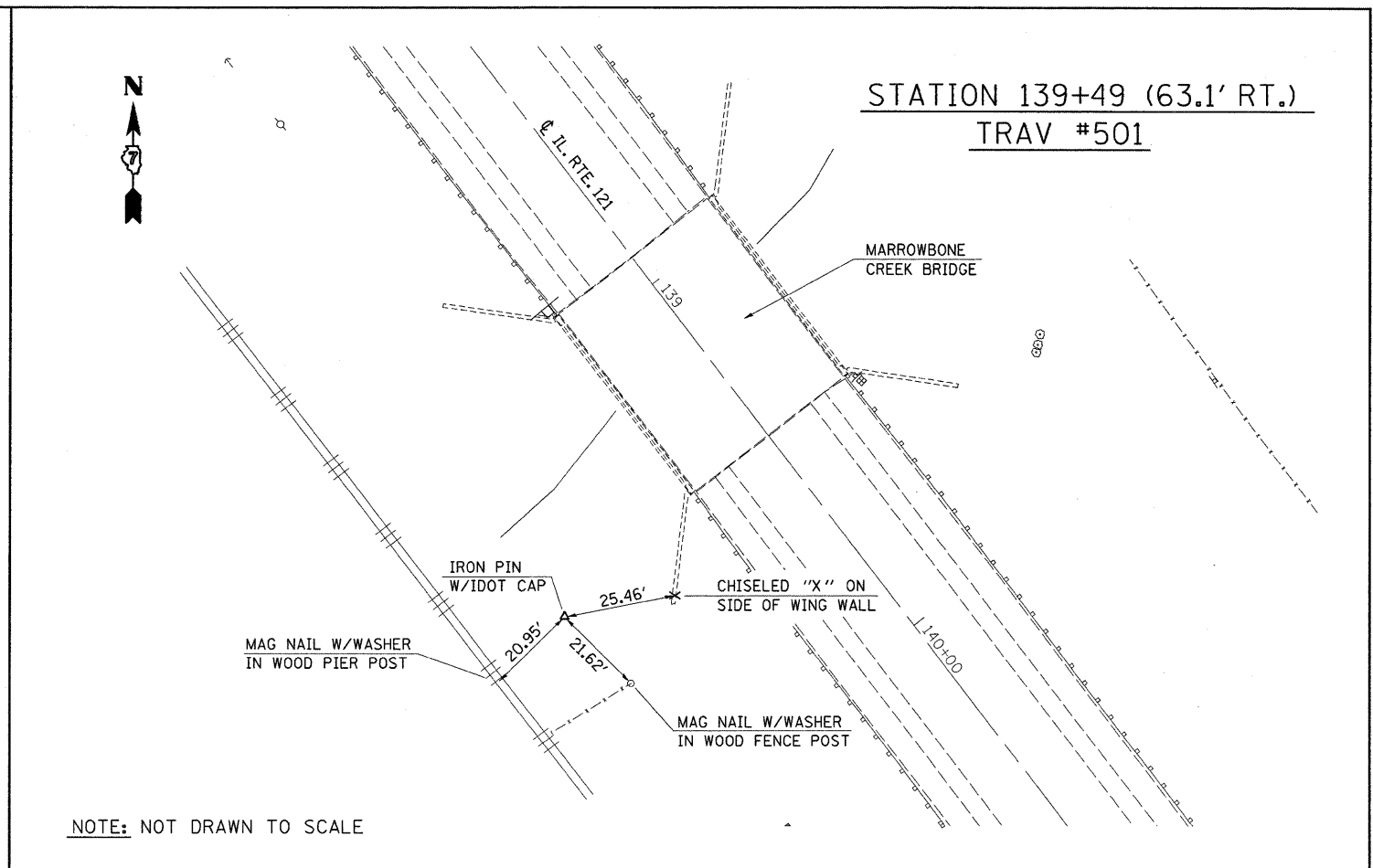
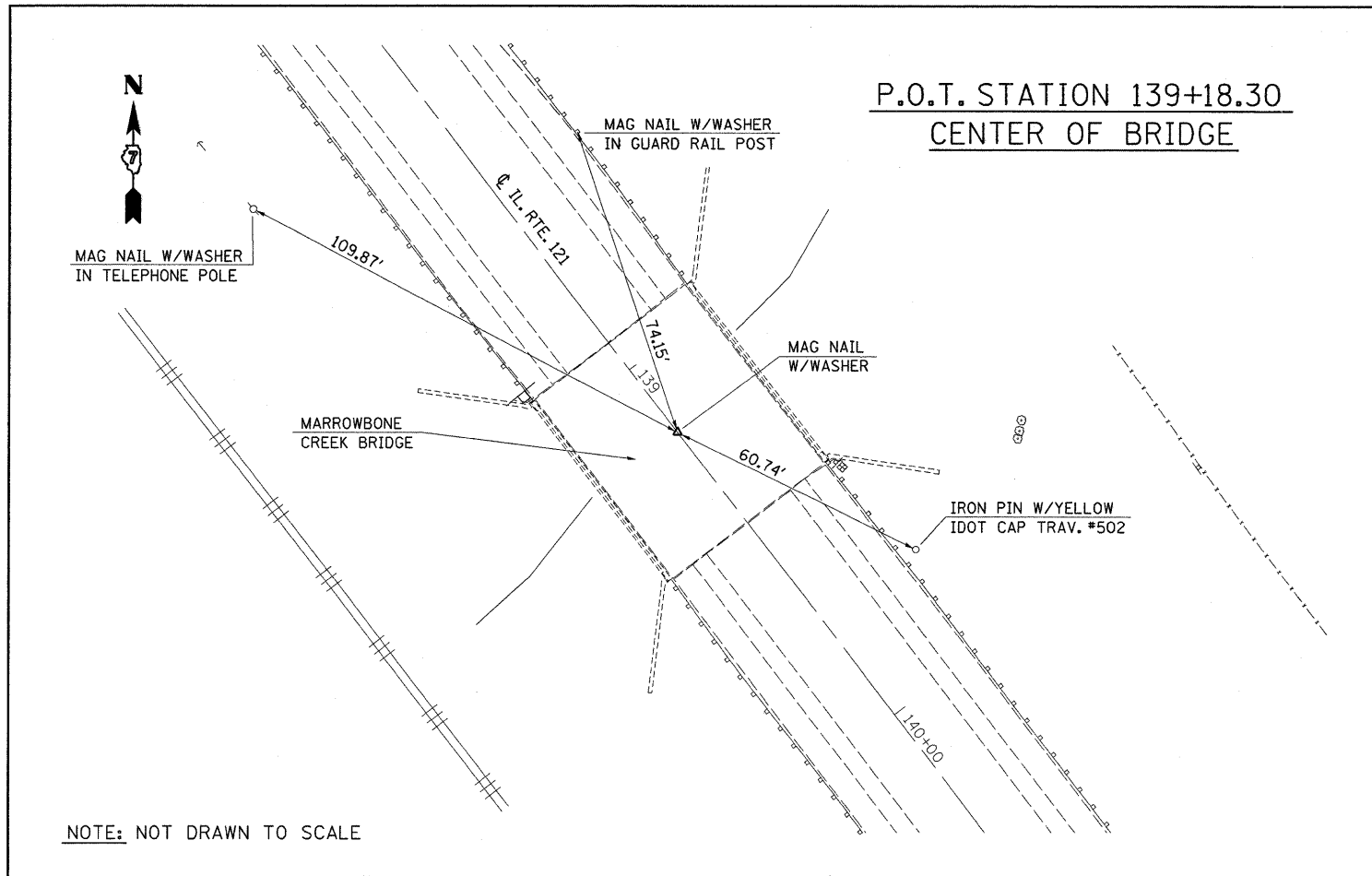


NOTES:

1. MILLING SHALL BE DONE TO ATTAIN A $\frac{3}{16}$ " SLOPE IN CROWN SECTIONS
2. EXISTING S.E. AND S.E. TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED TO BE $\frac{1}{2}$ " BUT MAY VARY IN ISOLATED LOCATIONS.

HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH) DETAIL

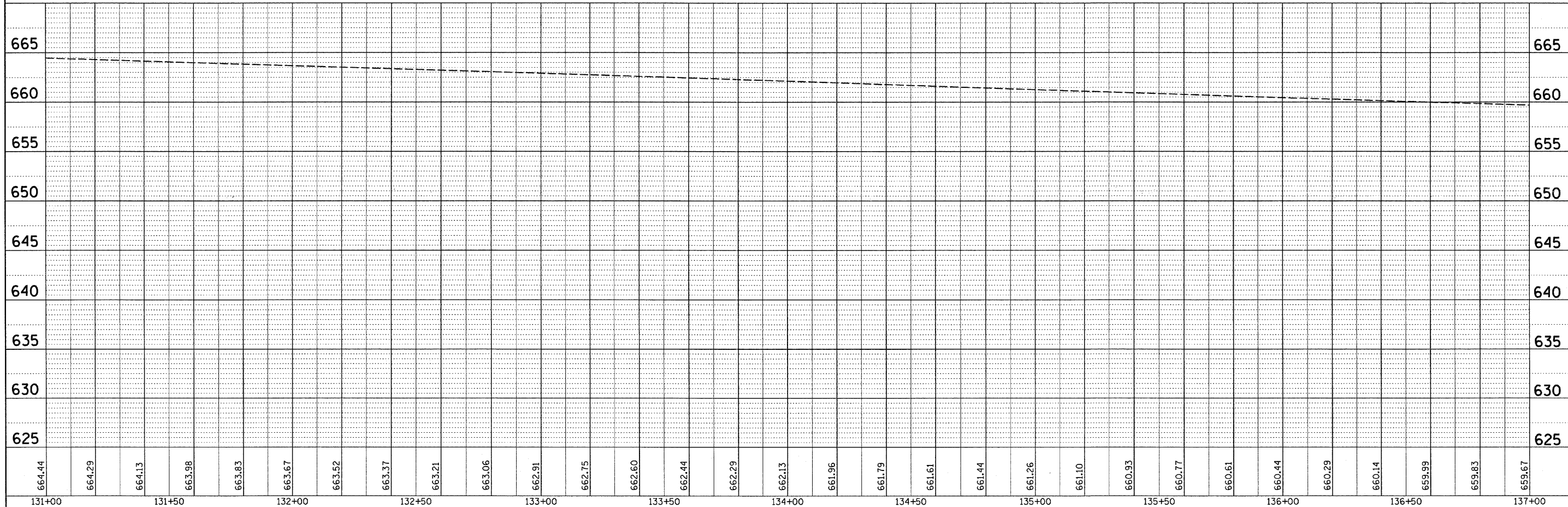
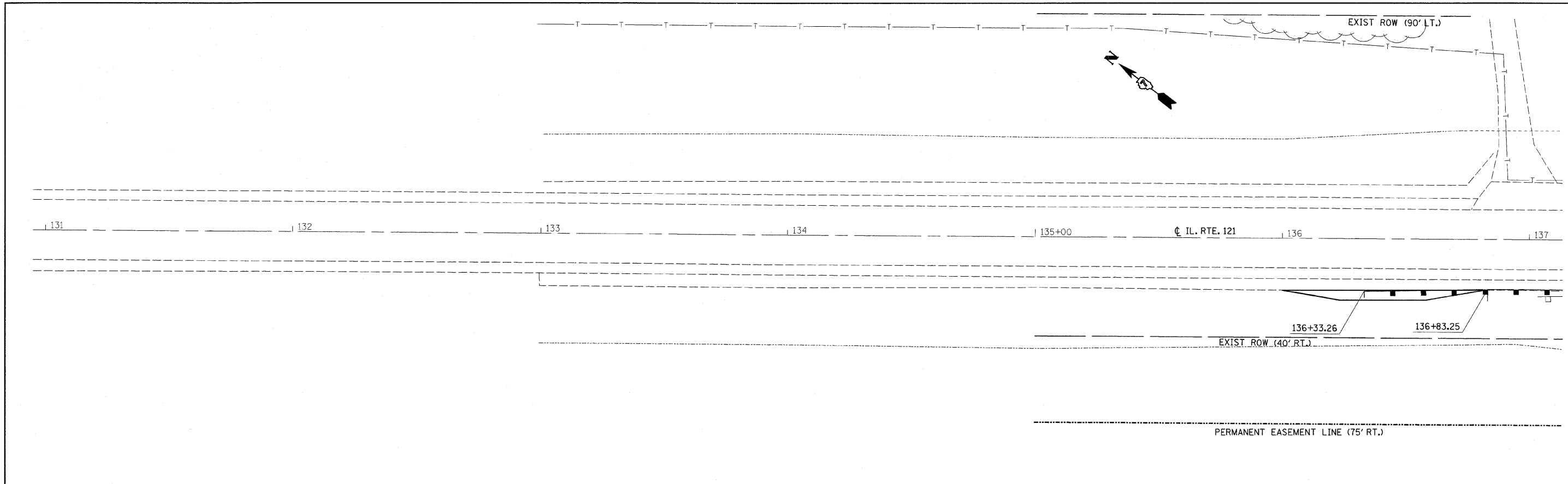
FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT DETAIL AND HMA SURFACE REMOVAL DETAIL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pw_work\pwi\dot\swartzrw\dms52812\d774280-shr\details.dgn	PLOT SCALE = 20.0000' / 1"	DRAWN -	REVISED -				320	(102BY)B-1	MOULTRIE	48	7
PLOT DATE = 8/9/2011	DATE -	CHECKED -	REVISED -		SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 74280				
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT TIE POINTS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/9/2011	DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							

PLAN SURVEYED _____ DATE _____
 PLOTTED _____
 NOTE BOOK NO. _____
 F.I. OF WAY CHECKED _____
 CAD FILE NAME _____

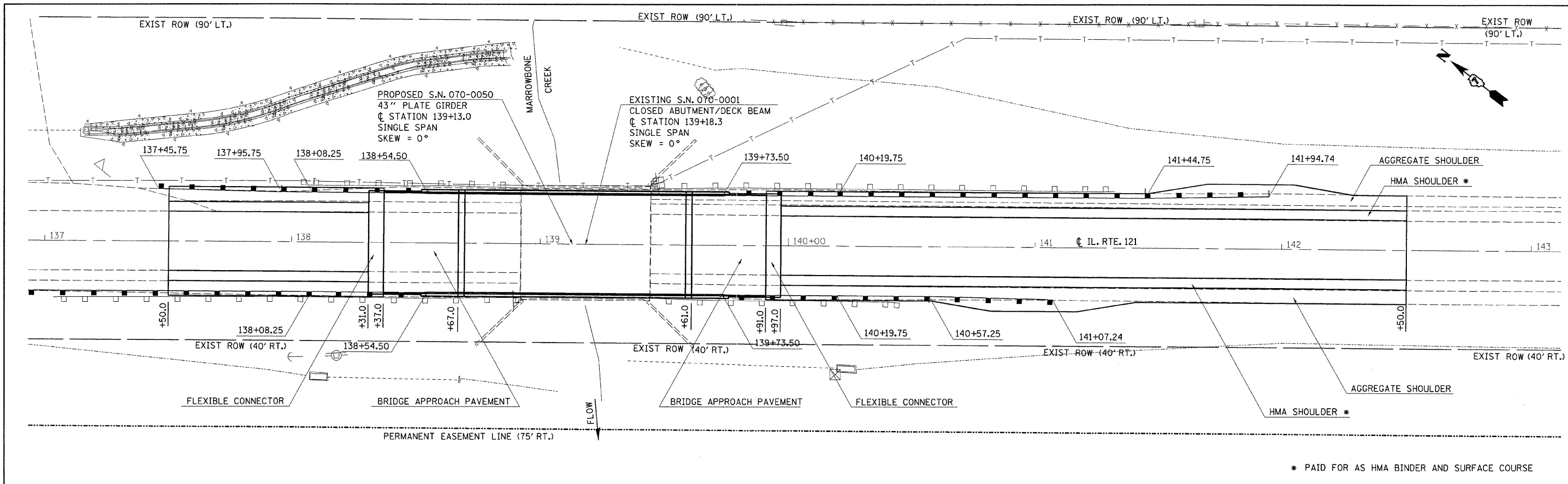
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 PLOTTED _____
 NOTE BOOK NO. _____
 F.I. OF WAY CHECKED _____
 STRUCTURE NOTATIONS CHRD _____



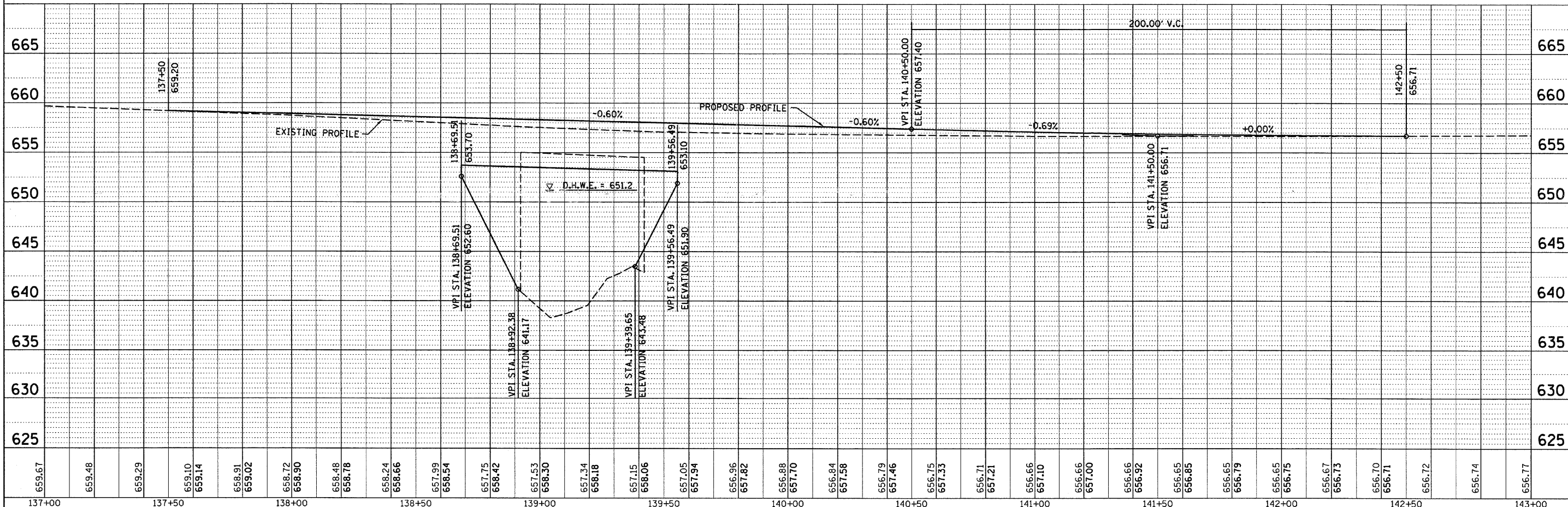
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PLOT DATE = 8/9/2011	DATE -	CHECKED -	REVISED -									
		DATE -	REVISED -									

PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	BY	
	NO.	
	DATE	

PRG/ ILE	SURVEYED	DATE
	DESIGNED	
	CHECKED	
	BY	
	NO.	
	DATE	



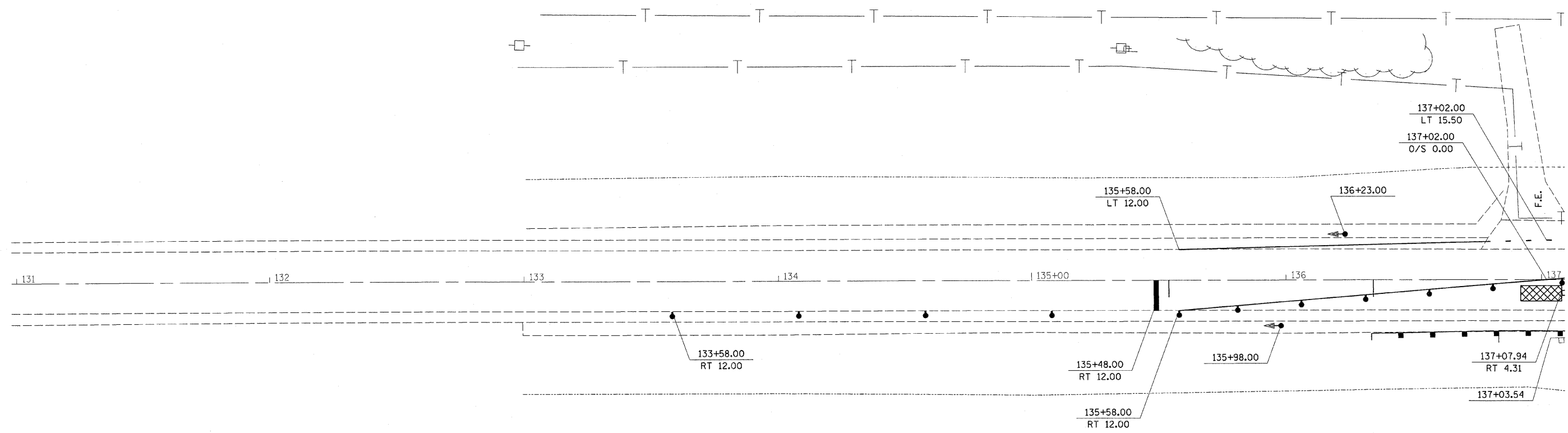
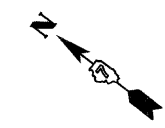
* PAID FOR AS HMA BINDER AND SURFACE COURSE



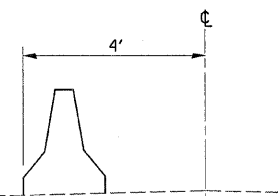
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PLOT DATE = 8/9/2011	DATE -	REVISED -	REVISED -					CONTRACT NO. 74280				
						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

STAGE I SEQUENCE OF OPERATIONS

1. ERECT SIGNS, TRAFFIC SIGNALS, TEMPORARY BARRIERS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321 AND THE DETAILS IN THE PLANS.
2. REMOVE THE STAGE I PORTION OF THE EXISTING STRUCTURE, PAVEMENT, SHOULDERS, AND GUARDRAIL.
3. CONSTRUCT THE STAGE I PORTION OF THE PROPOSED STRUCTURE, BRIDGE APPROACH PAVEMENT CONNECTOR, TEMPORARY RAMPS, RIP RAP, AND NEW GUARDRAIL.



PLACEMENT OF BARRIER DETAIL

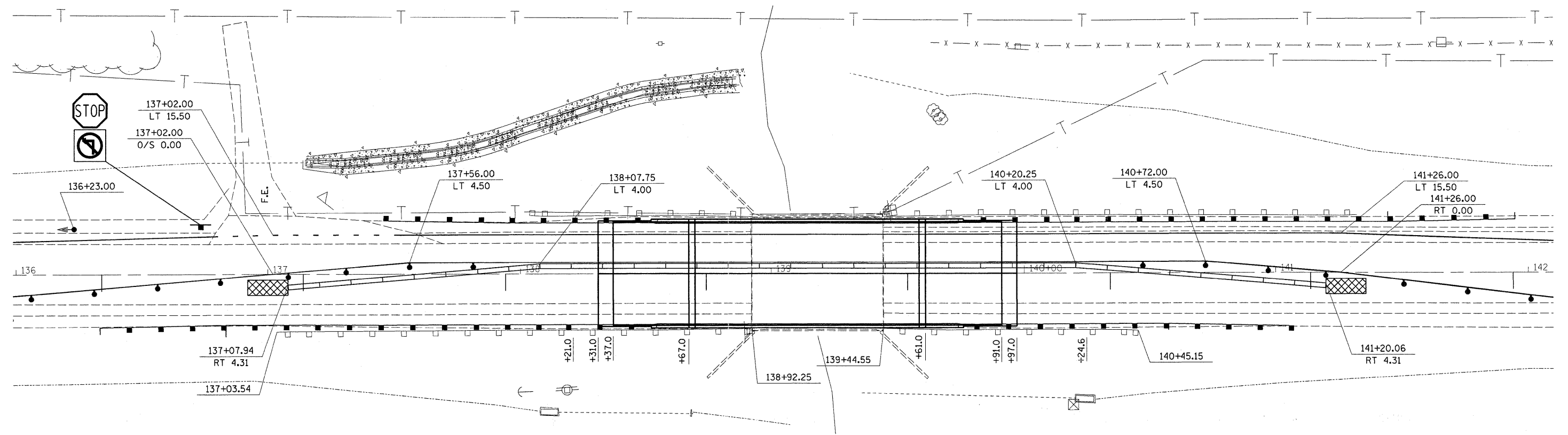
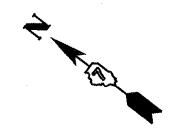


LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNALS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- STOP BAR



FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION			F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cc:\pw_work\pwidot\swartzrw\dms52012\d774280-sh1-stage1.dgn		DRAWN -	REVISED -		320	(102BY)B-1	MOULTRIE	48	11			
PLOT SCALE = 20.0000' / 1" =		CHECKED -	REVISED -		CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/9/2011		DATE -	REVISED -		SCALE: 20	SHEET NO. 1 OF 3 SHEETS	STA. 131+00 TO STA. 137+00					



LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNALS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- STOP BAR

TEMPORARY CONCRETE BARRIER

137+08 TO 138+08	100.0 FOOT
138+08 TO 140+20	212.5 FOOT
140+20 TO 141+20	100.0 FOOT
TOTAL =	413.0 FOOT

TEMPORARY BRIDGE TRAFFIC SIGNALS

S. N. 070-0050	1.0 EACH
TOTAL =	1.0 EACH

PAVEMENT REMOVAL

138+31 TO 138+92	118.6 SQ YD
139+45 TO 139+97	101.1 SQ YD
TOTAL =	220.0 SQ YD

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

137+08	1.0 EACH
141+20	1.0 EACH
TOTAL =	2.0 EACH

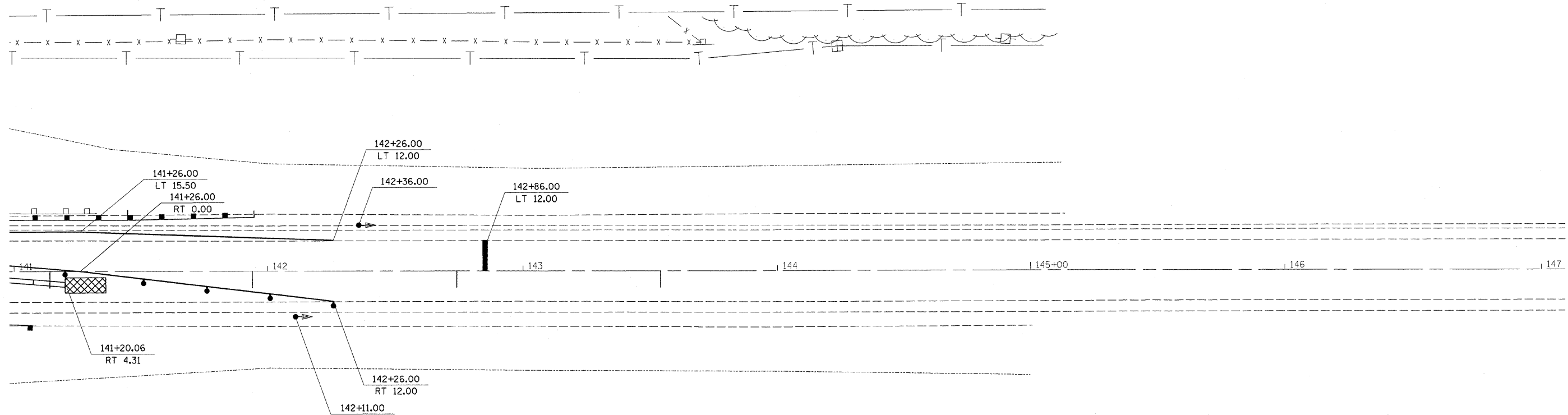
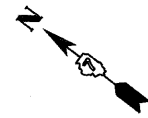
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	PLOT DATE = 8/9/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





STAGE I CONSTRUCTION

SCALE: 20 SHEET NO. 2 OF 3 SHEETS STA. 137+00 TO STA. 142+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	48	12
CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT	



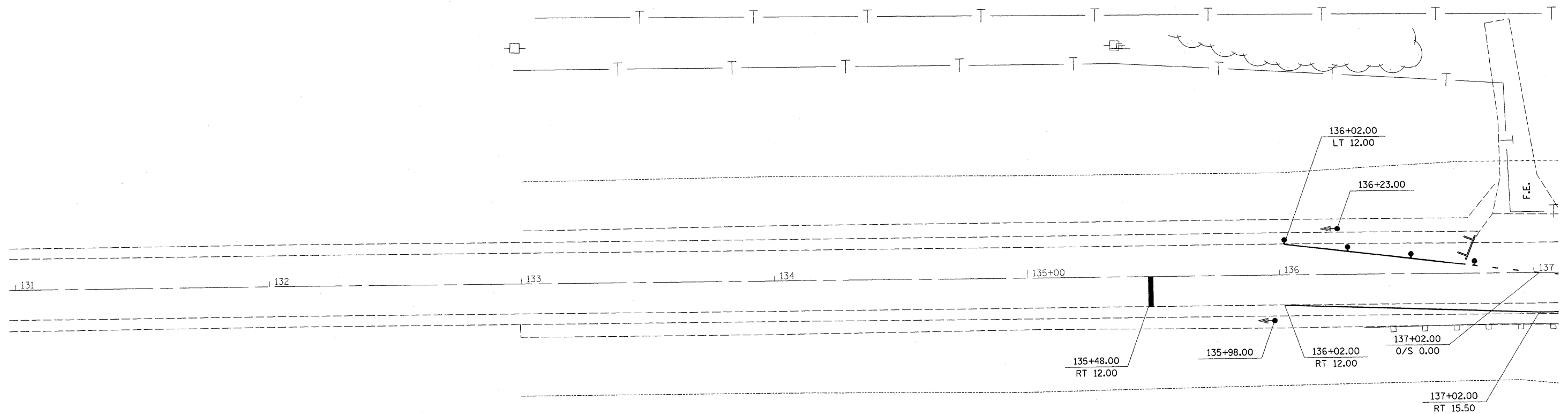
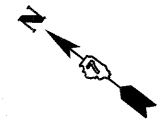
LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  STOP BAR

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\swartzrw\dms52812\d77	280-shit-stage1.dgn	DRAWN -	REVISED -		SCALE: 20	SHEET NO. 3 OF 3 SHEETS	STA. 141+00 TO STA. 147+00	320	(102BY)B-1	MOULTRIE	48	13
	PLOT SCALE = 28.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 74280							
	PLOT DATE = 8/9/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

STAGE II SEQUENCE OF OPERATIONS

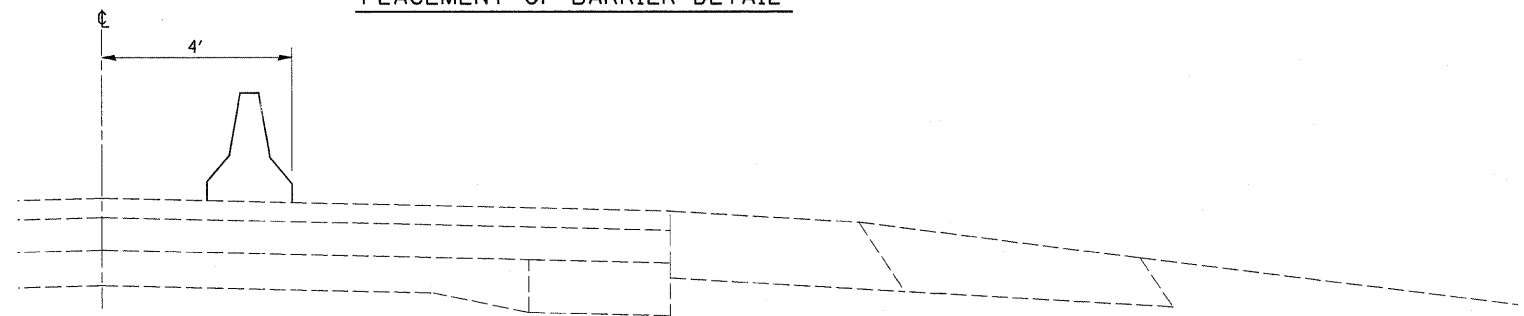
1. RELOCATE TEMPORARY CONCRETE BARRIERS, SIGNS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321 AND THE DETAILS IN THE PLANS.
2. REMOVE THE STAGE II PORTION OF THE EXISTING STRUCTURE, PAVEMENT, SHOULDERS, AND GUARDRAIL.
3. CONSTRUCT THE STAGE II PORTION OF THE STRUCTURE, BRIDGE APPROACH PAVEMENT CONNECTOR, TEMPORARY RAMPS, RIP RAP, AND NEW GUARDRAIL. REMOVE TRAFFIC CONTROL STANDARD 701321.
4. COMPLETE ALL HOT-MIX ASPHALT RESURFACING. CONSTRUCT HOT-MIX ASPHALT AND AGGREGATE SHOULDERS. COMPLETE EARTHWORK.
5. CONSTRUCT SEEDING, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE PROJECT.



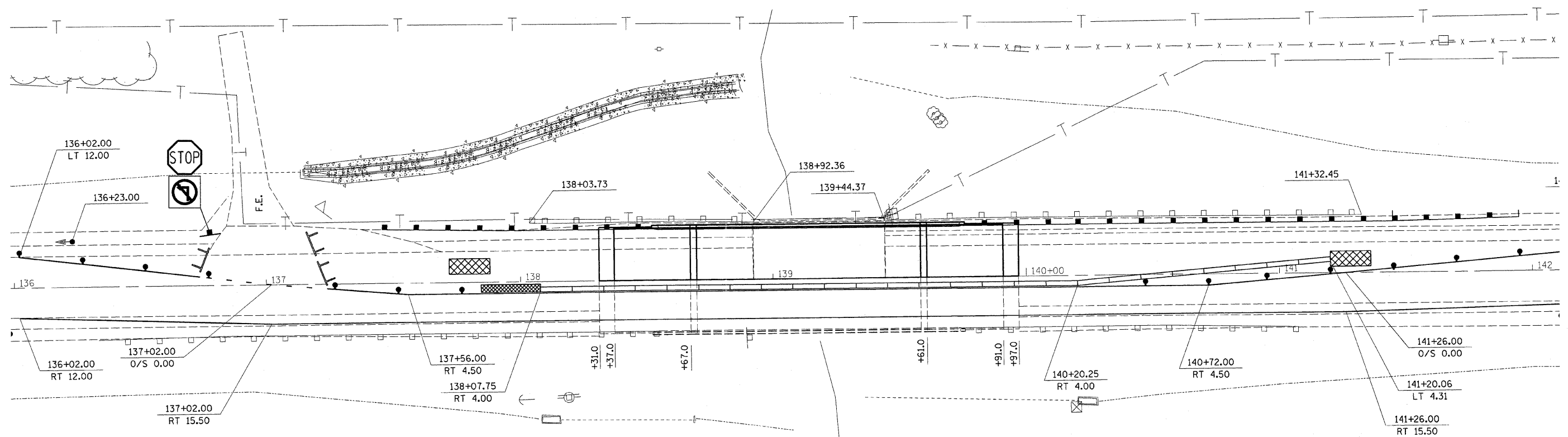
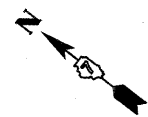
LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNALS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- STOP BAR
- IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE, NARROW) TEST LEVEL 3
- TYPE III BARRICADE







PLACEMENT OF BARRIER DETAIL



FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\pwsdot\swartzrw\dms52812\d77	288-sh2-stage2.dgn	DRAWN -	REVISED -		SCALE: 20	SHEET NO. 1 OF 3 SHEETS	STA. 131+00 TO STA. 137+00	320	(102BY)B-1	MOULTRIE	48	14
	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -							CONTRACT NO. 74280		
	PLOT DATE = 8/9/2011	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		



LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  STOP BAR
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE, NARROW) TEST LEVEL 3
-  TYPE III BARRICADE

RELOCATE TEMPORARY CONCRETE BARRIER

138+08 TO 140+20	212.5 FOOT
140+20 TO 141+26	100.0 FOOT
TOTAL =	312.5 FOOT

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

138+08	1.0 EACH
TOTAL =	1.0 EACH

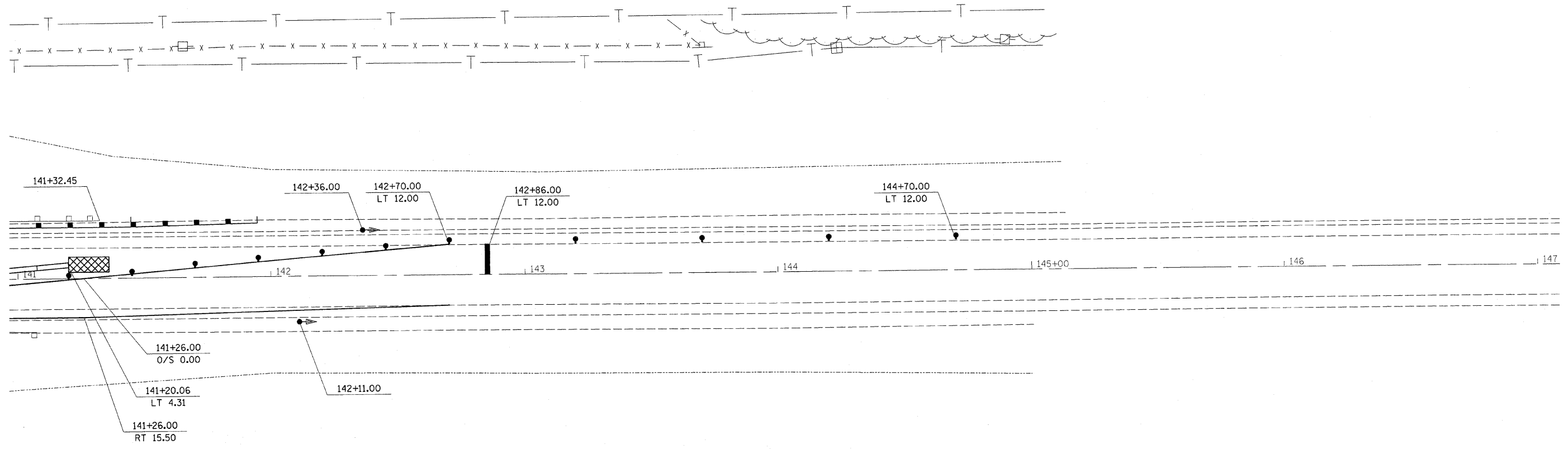
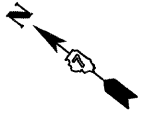
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

137+75	1.0 EACH
141+26	1.0 EACH
TOTAL =	2.0 EACH







PAVEMENT REMOVAL

138+31 TO 138+92	98.3 SQ YD
139+45 TO 139+97	83.8 SQ YD
TOTAL =	182.0 SQ YD

FILE NAME =	USER NAME = swartzm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pw_work\p\dot\swartzm\dms52812\d77	280-sh-t-stage2.dgn	DRAWN -	REVISED -		SCALE: 20	SHEET NO. 2 OF 3 SHEETS	STA. 136+00 TO STA. 142+00	320	(102BY)B-1	MOULTRIE	48	15
	PLOT SCALE = 20,0000' / 1" =	CHECKED -	REVISED -		CONTRACT NO. 74280							
	PLOT DATE = 8/9/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



LEGEND

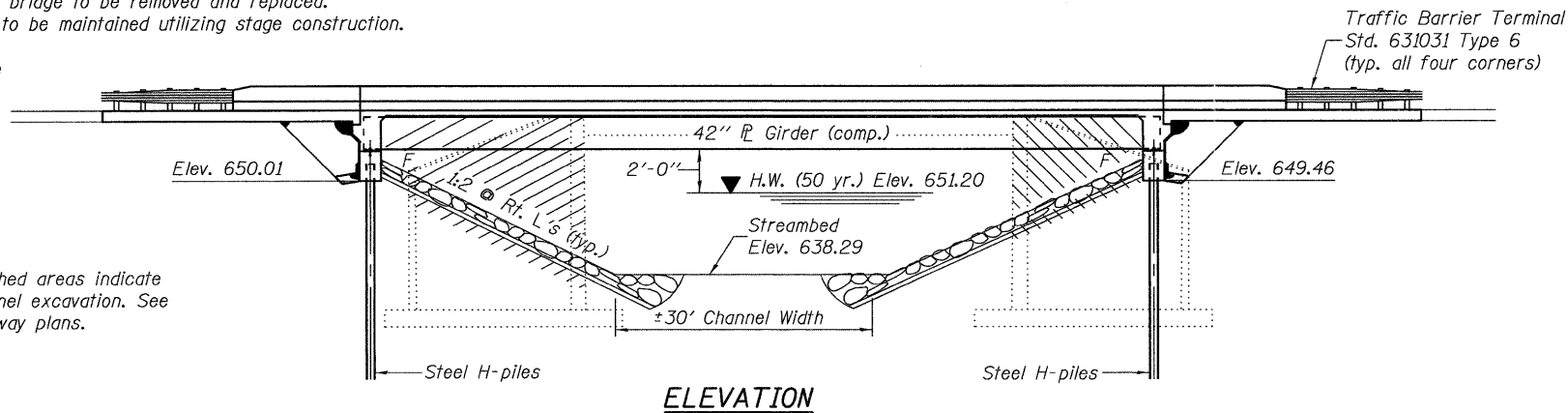
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  STOP BAR
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE, NARROW) TEST LEVEL 3
-  TYPE III BARRICADE

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ca:\pw_work\pwidot\swartzw\dms52812\d77	288-shr-stage2.dgn	DRAWN -	REVISED -			320	(102BY)B-1	MOULTRIE	48	16		
	PLOT SCALE = 20.0000' / 1" =	CHECKED -	REVISED -			CONTRACT NO. 74280		ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/9/2011	DATE -	REVISED -			SCALE: 20	SHEET NO. 3 OF 3 SHEETS	STA. 141+00	TO STA. 147+00			

Bench Mark: #201 Chiseled square on top of Southwest Wingwall of Structure 070-0001
 Station 139+44; 23.4' Lt. Elevation 657.57
 Existing Structure: S.N. 070-0001 Built 1930 as SBI Route 132, Section 102 at Station 139+30
 as a reinforced concrete T-beam bridge, 53'-2" Bk. to Bk. closed abutments supported on
 untreated timber piles. In 1970, bridge widening & superstructure replacement with PPC deck beams.
 Existing bridge to be removed and replaced.
 Traffic to be maintained utilizing stage construction.

No salvage

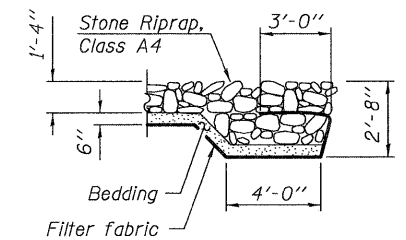
Note: Hatched areas indicate
 channel excavation. See
 roadway plans.



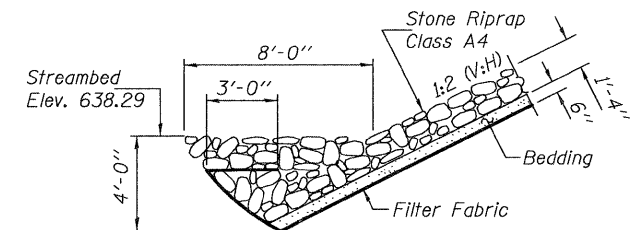
ELEVATION

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Data & Stage Construction Details
- 3 Temporary Concrete Barrier for Stage Construction
- 4-5 Top of Slab Elevations
- 6 Top of North Approach Slab Elevations
- 7 Top of South Approach Slab Elevations
- 8 Superstructure
- 9 Superstructure Details
- 10 Diaphragm Details
- 11-12 Bridge Approach Slab Details
- 13 Structural Steel
- 14 Structural Steel Details
- 15 North Abutment
- 16 South Abutment
- 17 Bar Splicer Assembly Details
- 18 Steel H Pile Details
- 19-21 Soil Boring Logs



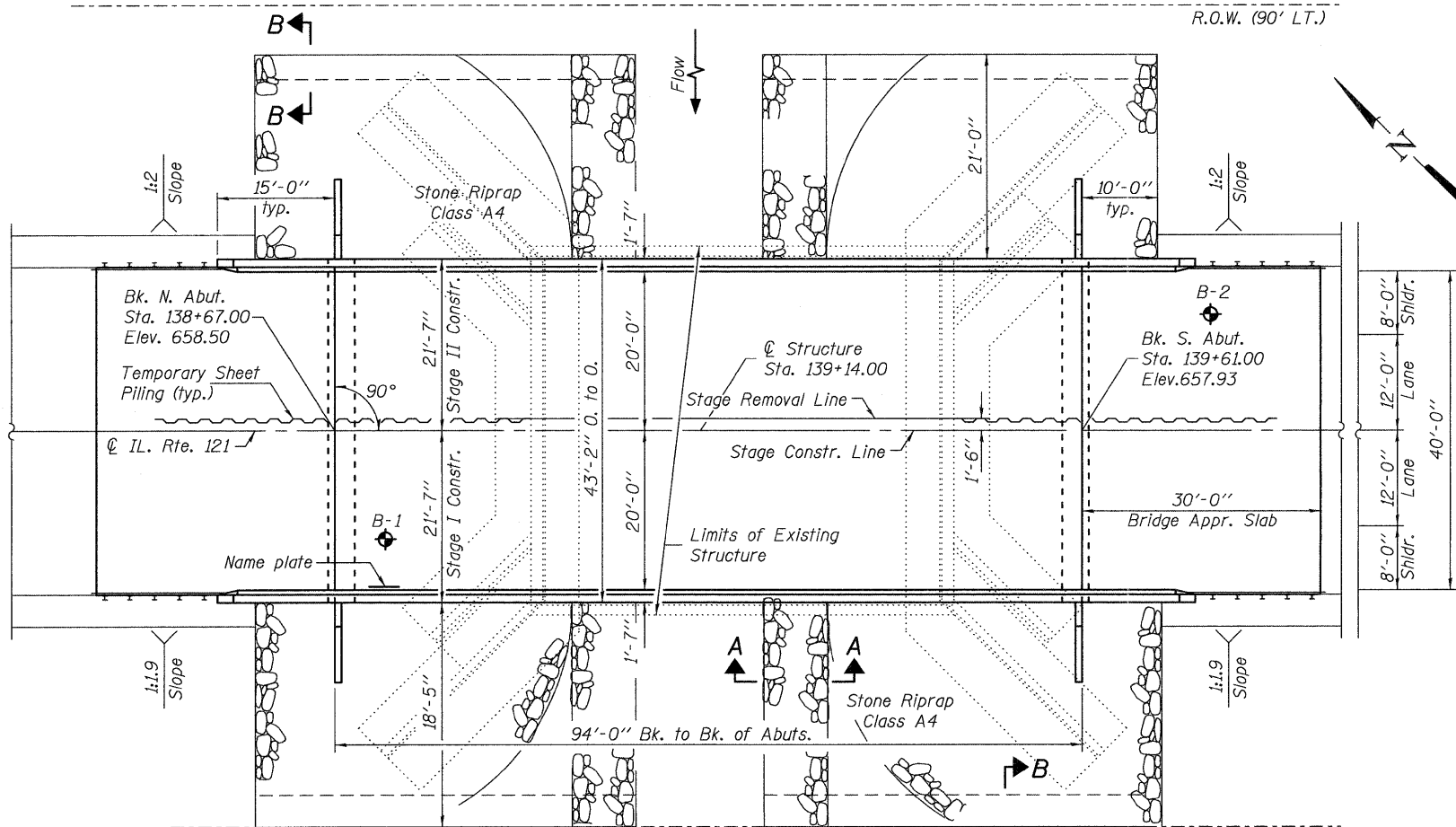
SECTION B-B



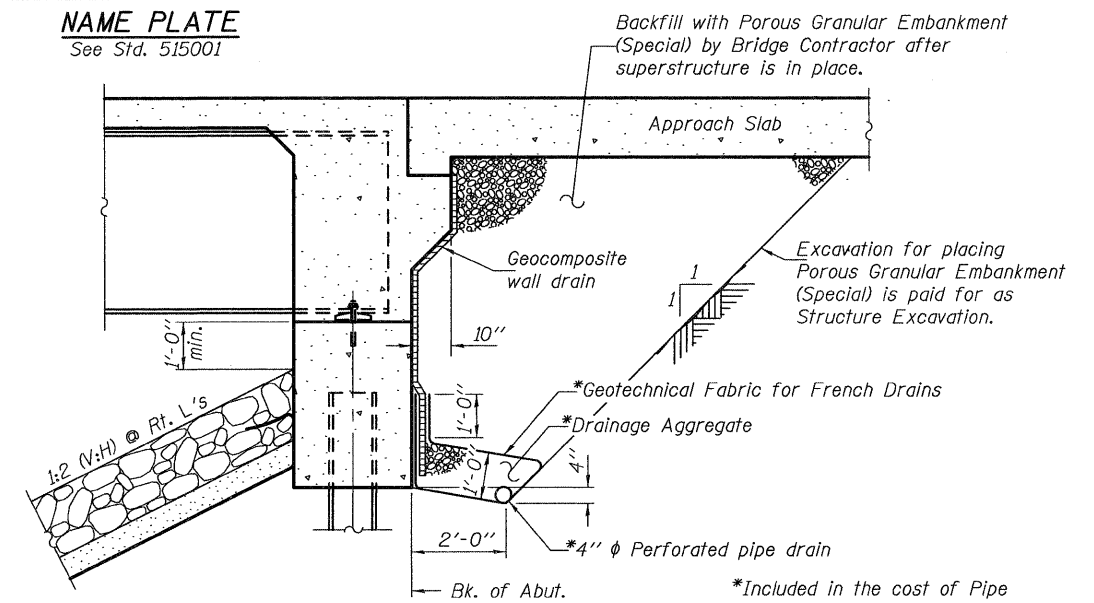
SECTION A-A

STATION 139+14.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 320 SEC. (102BY)B-1
 LOADING HL93
 STRUCTURE NO. 070-0050

NAME PLATE
 See Std. 515001



PLAN



SECTION THRU INTEGRAL ABUTMENT

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

LOADING HL 93

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

DESIGN SPECIFICATIONS

2007 LRFD Bridge Design Specifications, 4th. Edition

DESIGN STRESSES

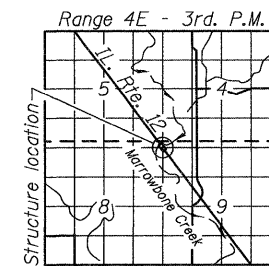
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (structural steel)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Bedrock Acceleration Coefficient (A) = 4.95%g
 Site Coefficient (S) = 1.0

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (feet)	North Abut.	South Abut.
	650.01	649.46



LOCATION SKETCH

**GENERAL PLAN & ELEVATION
 IL. RTE. 121 OVER MARROWBONE CREEK
 F.A.P. RTE. 320 - SEC. (102BY)B-1**

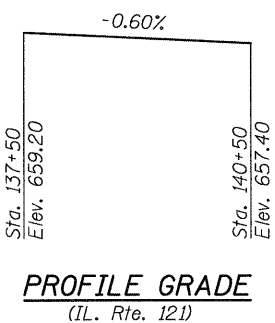
**MOULTRIE COUNTY
 STATION 139+14.00
 STRUCTURE NO. 070-0050**

WATERWAY INFORMATION

Proposed Low Grade Elev. 656.66 @ Sta. 141+50.00
 Existing Low Grade Elev. 656.66 @ Sta. 114+50.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	1175	454	565	649.7	0	0	649.7	649.7
Design	50	2873	529	689	651.2	0.1	0	651.3	651.2
Base	100	3364	554	732	651.8	0.2	0	652.0	651.8
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	4566	618	848	653.0	0.5	0.1	653.5	653.1

10 yr. velocity thru exist. bridge = 3.97 cfs
 10 yr. velocity thru prop. bridge = 3.24 cfs



**PROFILE GRADE
 (IL. Rte. 121)**

EXPIRES 11-30-2010



DESIGNED - Stephen M. Ryan
 CHECKED - Fessleha Tekle Woldemariam
 DRAWN - h.t. duong
 CHECKED - SMR/ET

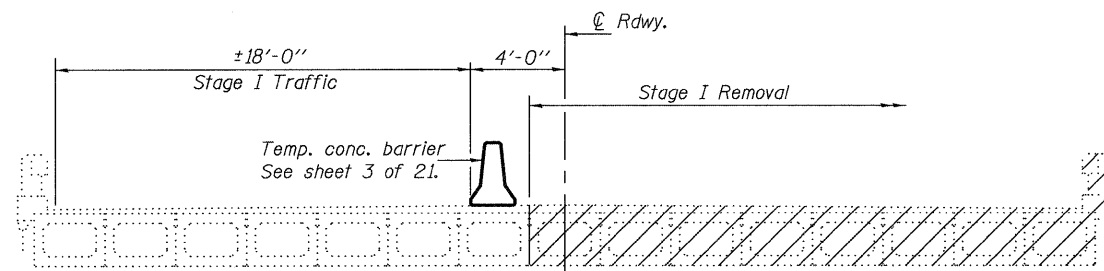
EXAMINED - Thomas J. ...
 PASSED - ...
 DATE - 10/11/2011

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

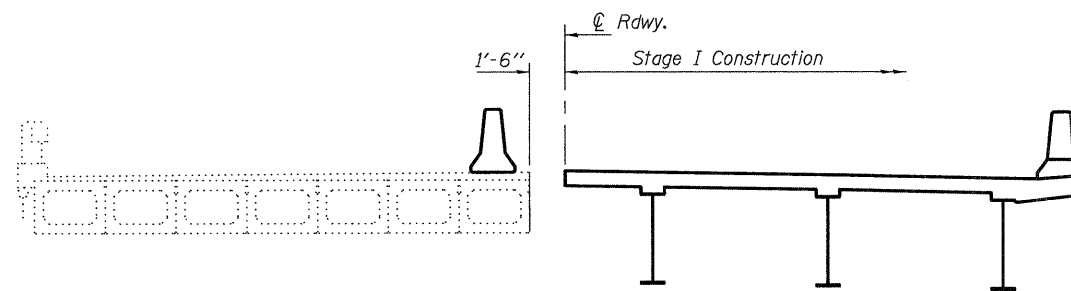
**GENERAL PLAN & ELEVATION
 STRUCTURE NO. 070-0050**

SHEET NO. 1 OF 21 SHEETS

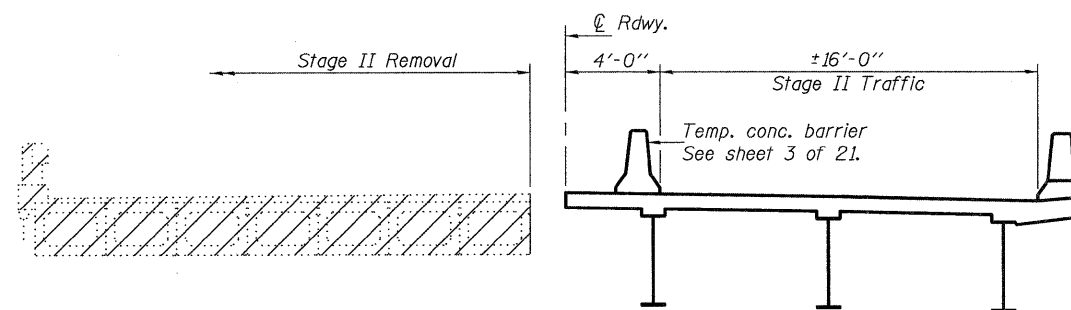
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	48	17
CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT	



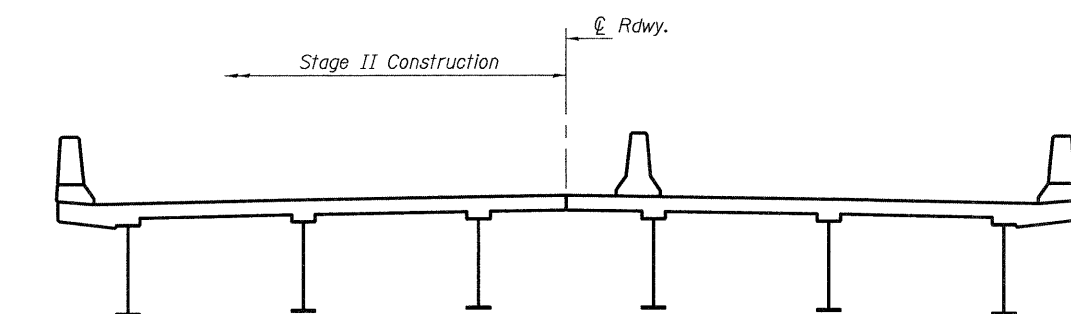
STAGE I REMOVAL



STAGE I CONSTRUCTION

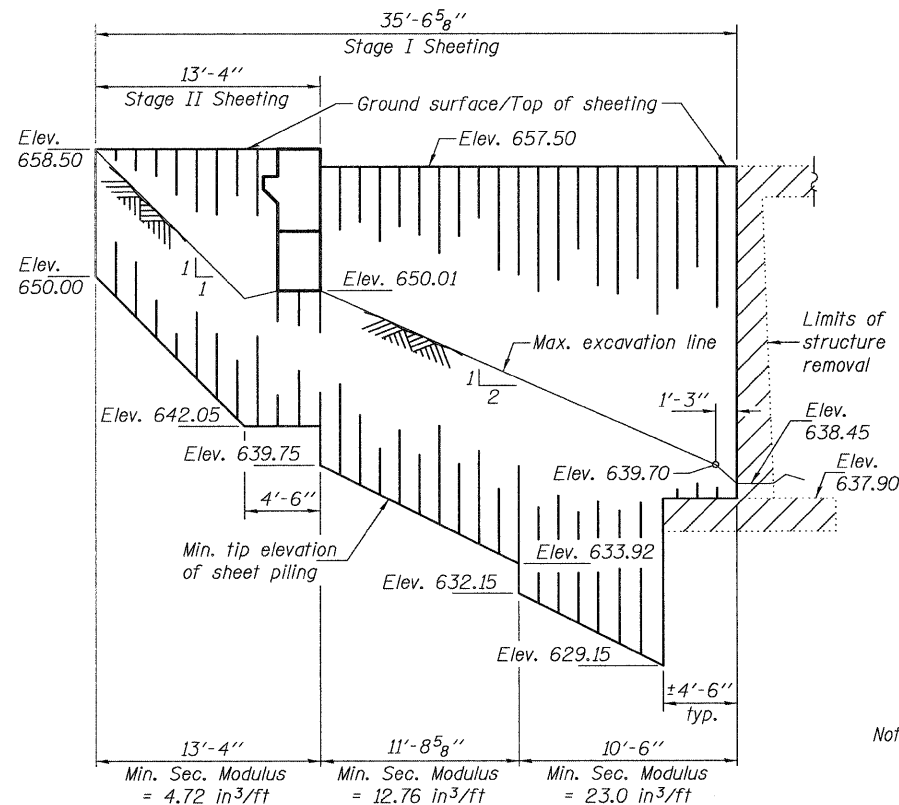


STAGE II REMOVAL

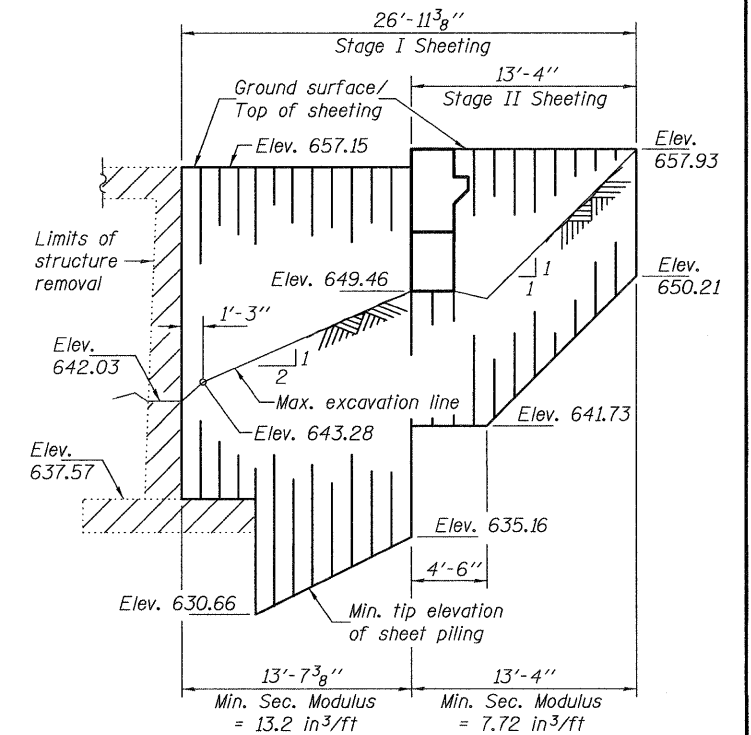


STAGE II CONSTRUCTION

Notes: Hatched areas indicate removal of existing structures.
For quantity of temporary concrete barrier, see Roadway Plans.
All cross sections are looking south.



TEMPORARY SHEET PILING AT NORTH ABUT.



TEMPORARY SHEET PILING AT SOUTH ABUT.

Notes: If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		156	156
Stone Riprap, Class A4	Ton		749	749
Filter Fabric	Sq. Yd.		832.6	832.6
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		92	92
Concrete Structures	Cu. Yd.		65.2	65.2
Concrete Superstructure	Cu. Yd.	290.3		290.3
Bridge Deck Grooving	Sq. Yd.	650		650
Protective Coat	Sq. Yd.	797		797
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1368		1368
Reinforcement Bars, Epoxy Coated	Pound	67740	4240	71980
Bar Splicers	Each	578	98	676
Furnishing Steel Piles HP12x63	Foot		760	760
Driving Piles	Foot		760	760
Test Pile Steel HP12x63	Each		2	2
Temporary Sheet Piling	Sq. Ft.		1165	1165
Name Plates	Each	1		1
Anchor Bolt 1"	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		96.2	96.2
Pipe Underdrains for Structures, 4"	Foot		168.0	168.0
Concrete Encasement	Cu. Yd.		4.2	4.2
Asbestos Bearing Pad Removal	Each		30	30

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 3/4" φ, holes 5/16" φ, unless otherwise noted.
Calculated weight of Structural Steel = 117990 lbs. (Grade 50)
9190 lbs. (Grade 36)
No field welding is permitted except as specified in the contract documents.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
The Inorganic Zinc Rich Primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
Slipforming of the parapet is not allowed.
The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

DESIGNED - Stephen M. Ryan
CHECKED - F. Teklehalmanot
DRAWN - h.t. duong
CHECKED - SMR/FT

EXAMINED
PASSED
THOMAS J. DEMAGALAKI
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/11/2011

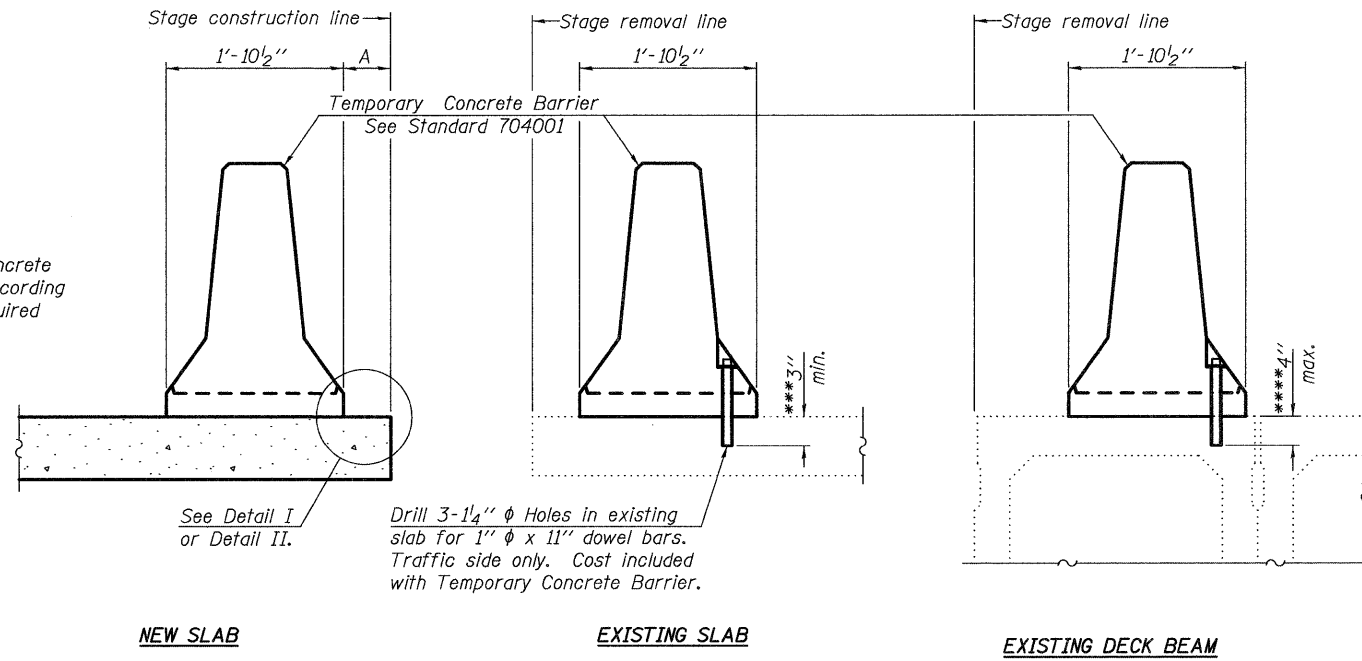
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA & STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 070-0050

SHEET NO. 2 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	43	18
				CONTRACT NO. 74280
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" 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'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

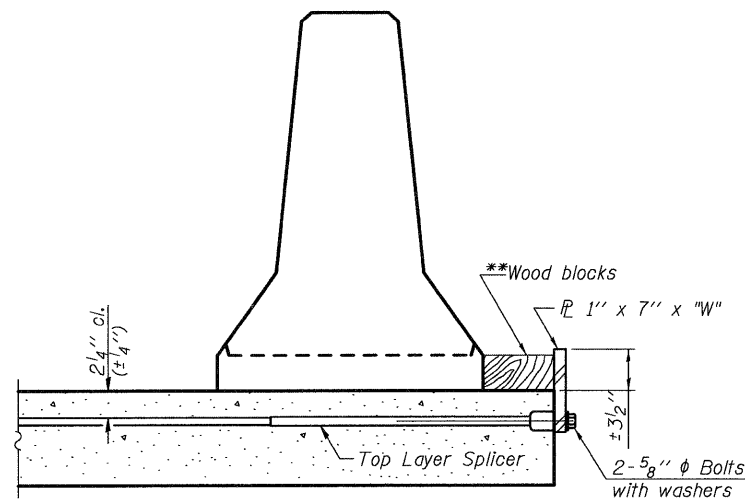
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

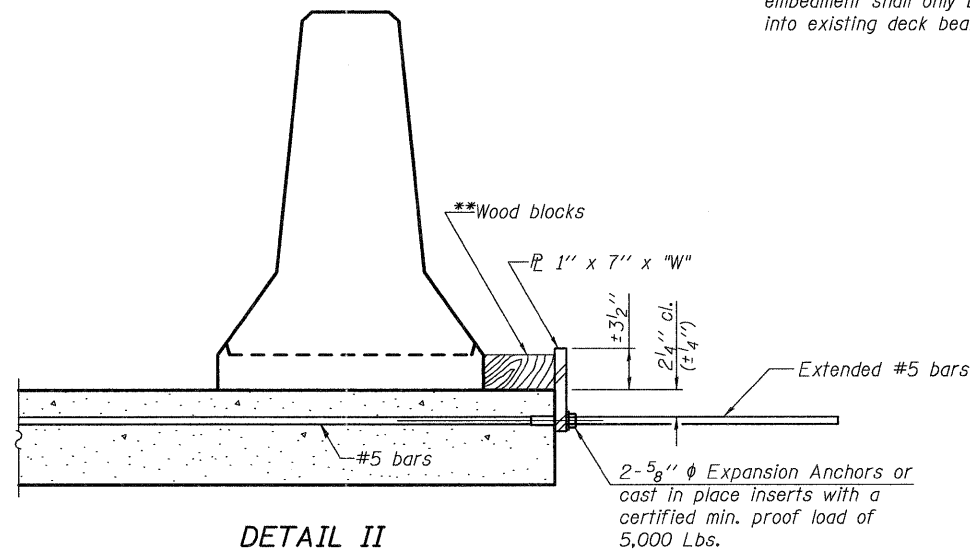
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

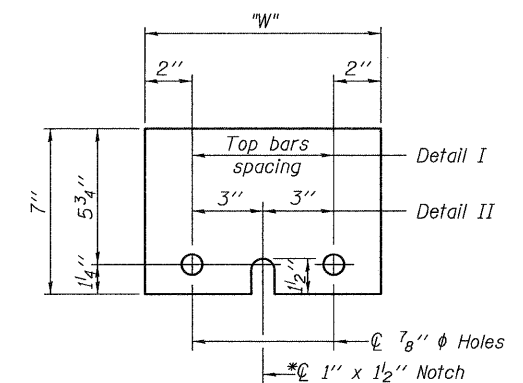
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

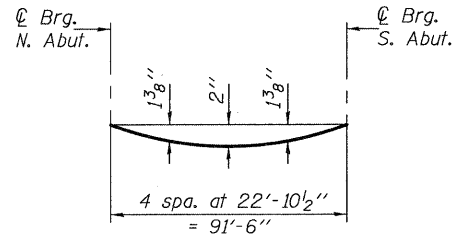
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

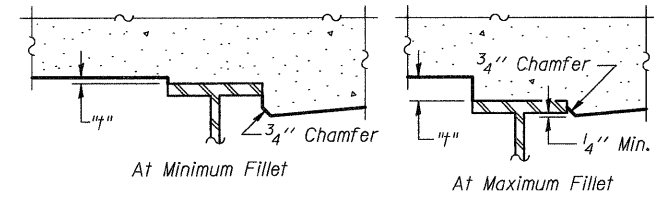
DESIGNED - Stephen M. Ryan	EXAMINED - <i>Thomas J. Danagalek</i> ENGINEER OF BRIDGE DESIGN	DATE - 10/11/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 070-0050		F.A.P. RTE. 320	SECTION (102BY)B-1	COUNTY MOULTRIE	TOTAL SHEETS 48	SHEET NO. 19
CHECKED - F. Teklehaimanot	PASSED - <i>Carl Perry</i> ENGINEER OF BRIDGES AND STRUCTURES						SHEET NO. 3 OF 21 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 74280



DEAD LOAD DEFLECTION DIAGRAM

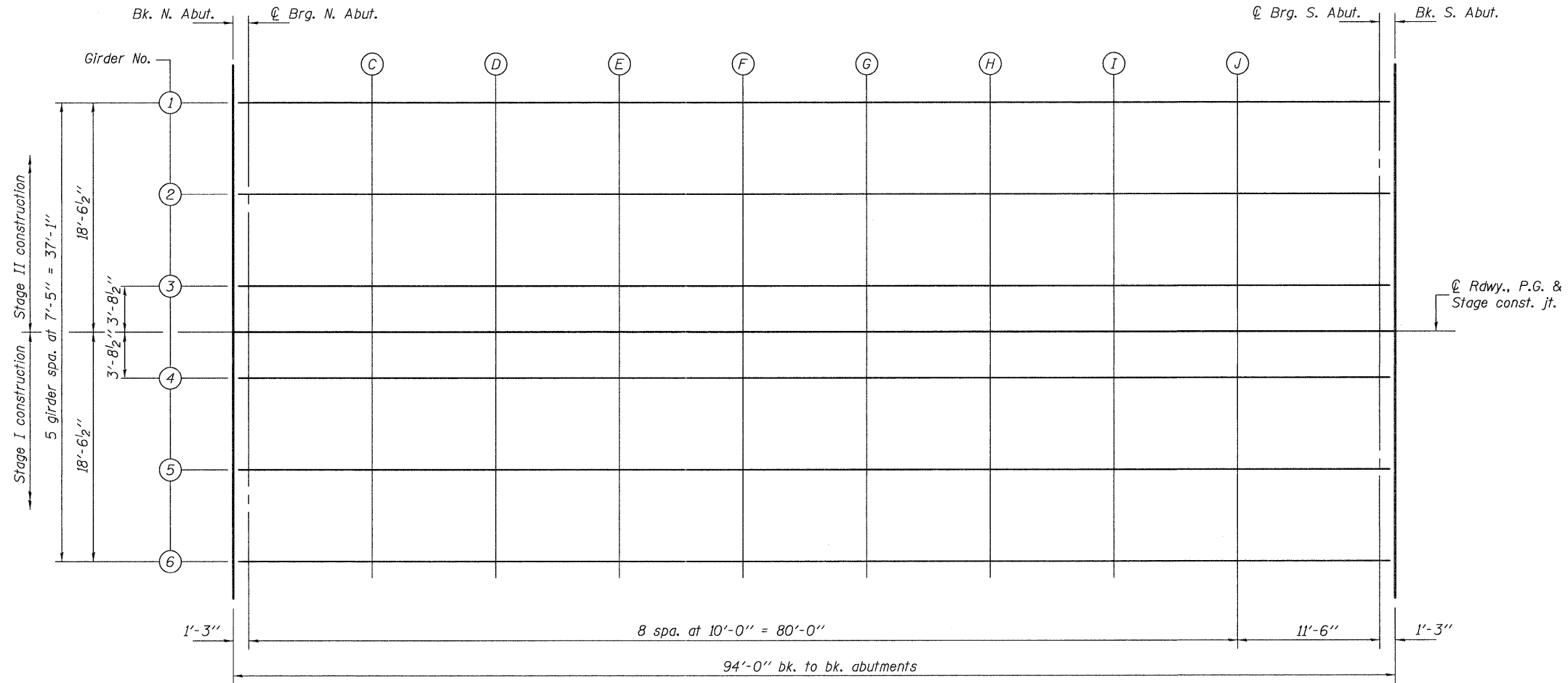
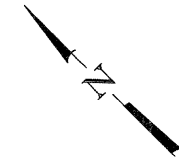
(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 5 of 21.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 5 of 21, minus 8" deck thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS



PLAN

DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

EXAMINED *Thomas Damagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *John C. ...*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/11/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 070-0050

SHEET NO. 4 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	48	20
CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT	

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	13837.00	-20.00	658.32
A	13847.00	-20.00	658.26
B	13857.00	-20.00	658.20
South End of N. Appr. Slab	13867.00	-20.00	658.14

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	13837.00	-12.00	658.49
A	13847.00	-12.00	658.43
B	13857.00	-12.00	658.37
South End of N. Appr. Slab	13867.00	-12.00	658.31

☉ ROADWAY, P.G. & STAGE CONST. JOINT

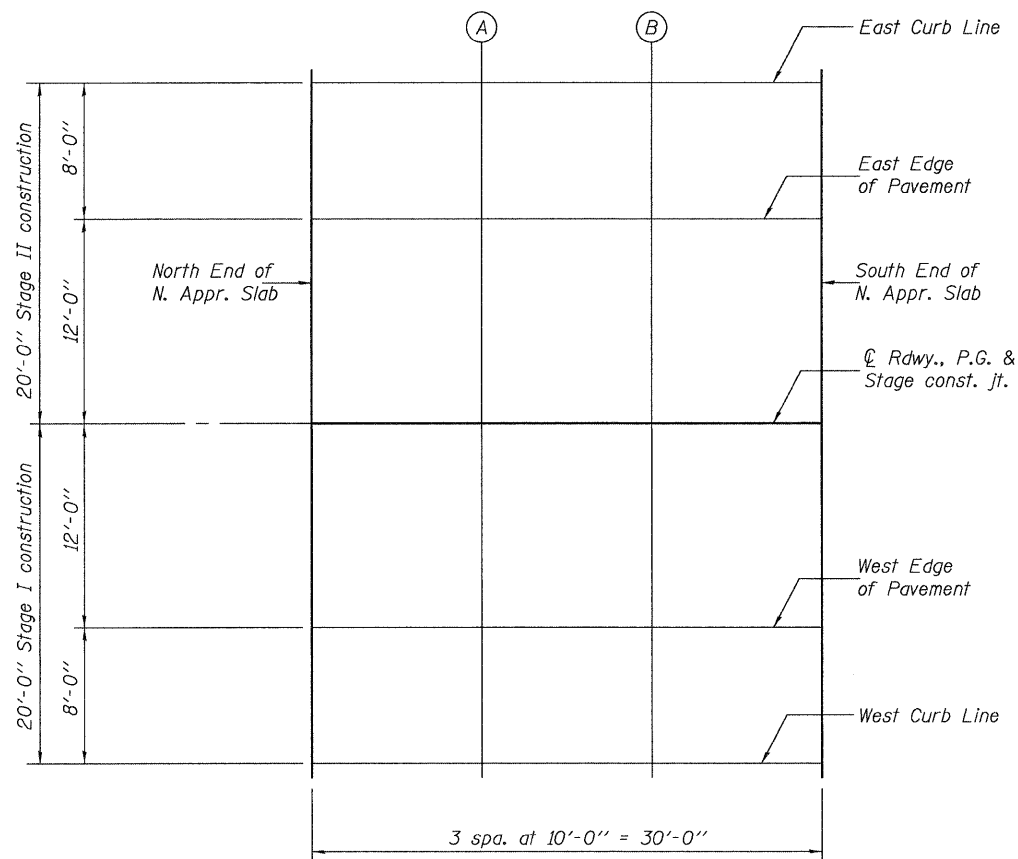
Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	13837.00	0.00	658.68
A	13847.00	0.00	658.62
B	13857.00	0.00	658.56
South End of N. Appr. Slab	13867.00	0.00	658.50

WEST EDGE OF PAVEMENT

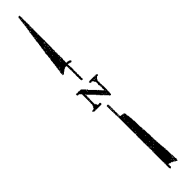
Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	13837.00	12.00	658.49
A	13847.00	12.00	658.43
B	13857.00	12.00	658.37
South End of N. Appr. Slab	13867.00	12.00	658.31

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	13837.00	20.00	658.32
A	13847.00	20.00	658.26
B	13857.00	20.00	658.20
South End of N. Appr. Slab	13867.00	20.00	658.14



PLAN



DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

EXAMINED *Thomas J. Demagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *[Signature]*
 ENGINEER OF BRIDGES AND STRUCTURES
 DATE - 10/11/2011

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 070-0050**

SHEET NO. 6 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	48	22
CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT	

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	13961.00	-20.00	657.58
K	13971.00	-20.00	657.52
L	13981.00	-20.00	657.46
South End of S. Appr. Slab	13991.00	-20.00	657.40

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	13961.00	-12.00	657.75
K	13971.00	-12.00	657.69
L	13981.00	-12.00	657.63
South End of S. Appr. Slab	13991.00	-12.00	657.57

☉ ROADWAY, P.G. & STAGE CONST. JOINT

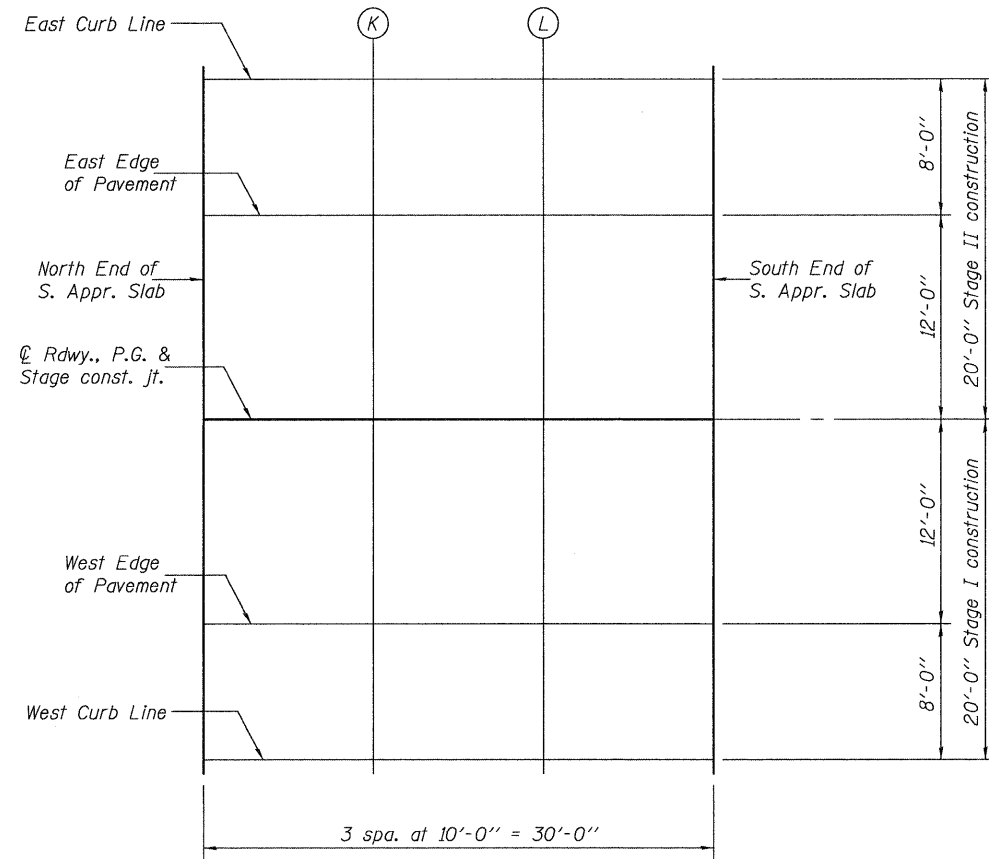
Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	13961.00	0.00	657.93
K	13971.00	0.00	657.87
L	13981.00	0.00	657.81
South End of S. Appr. Slab	13991.00	0.00	657.75

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	13961.00	12.00	657.75
K	13971.00	12.00	657.69
L	13981.00	12.00	657.63
South End of S. Appr. Slab	13991.00	12.00	657.57

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	13961.00	20.00	657.58
K	13971.00	20.00	657.52
L	13981.00	20.00	657.46
South End of S. Appr. Slab	13991.00	20.00	657.40



PLAN

DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

EXAMINED *Thomas J. Danagalebi*
 PASSED *John C. ...*
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

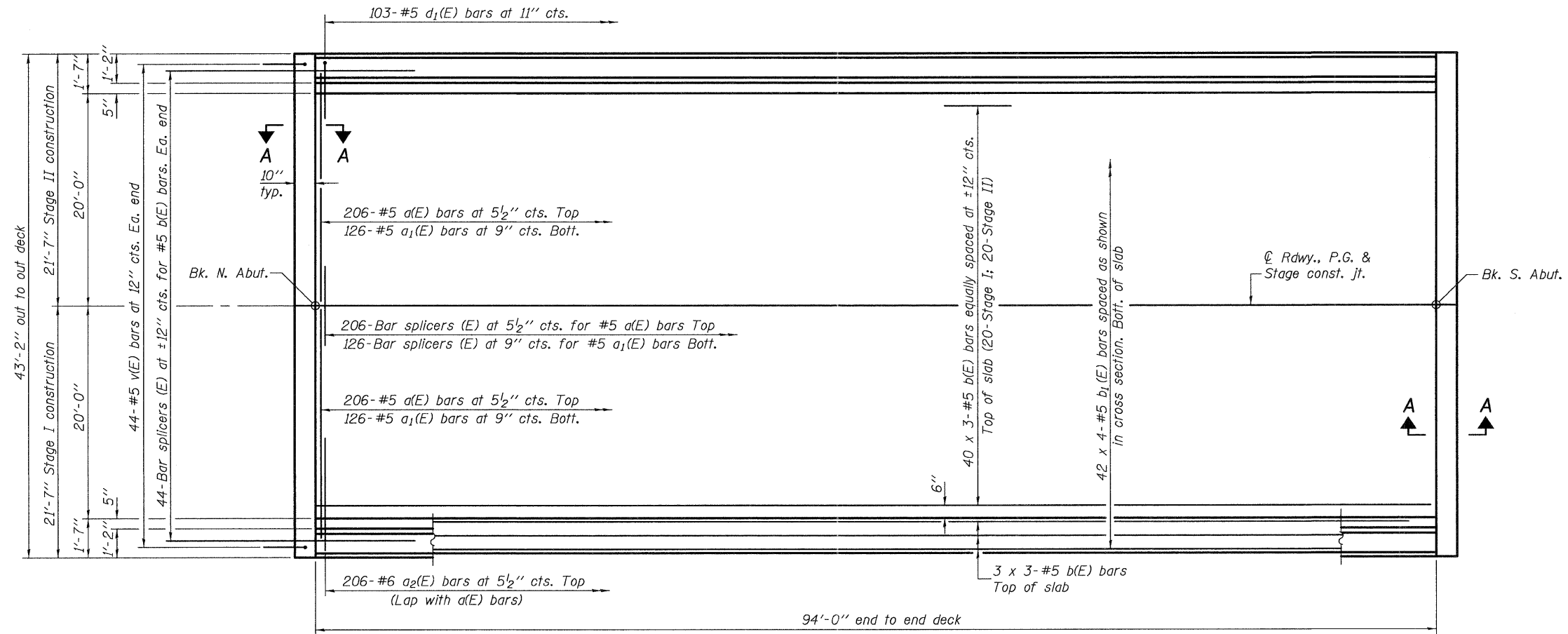
DATE - 10/11/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 070-0050

SHEET NO. 7 OF 21 SHEETS

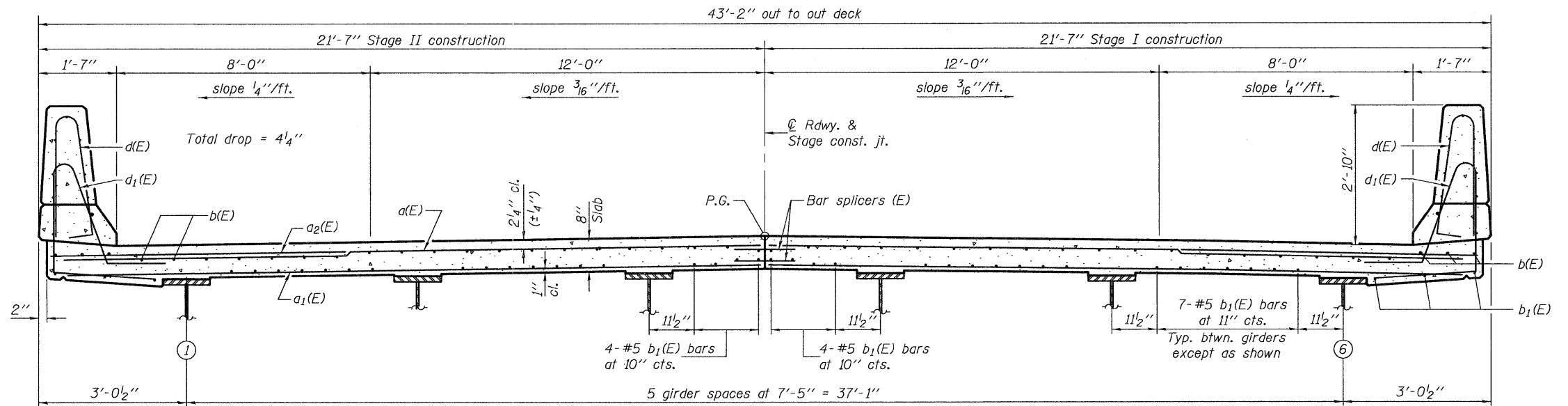
F.A.P. RTE. 320	SECTION (102BY)B-1	COUNTY MOULTRIE	TOTAL SHEETS 4-3	SHEET NO. 23
CONTRACT NO. 74280				ILLINOIS FED. AID PROJECT



MIN. BAR LAPS
 #5 bar = 1'-8"
 #6 bar = 2'-0"

PLAN

Notes: See sheet 9 of 21 for superstructure details and Bill of Material.
 Bars indicated thus 40 x 3-#5 etc. indicates 40 lines of bars with 3 lengths per line.
 See sheet 9 of 21 for parapet reinforcement.
 See sheet 10 of 21 for Section A-A.
 See sheet 15 of 21 for bar splicer details.



CROSS SECTION
 (Looking South)

DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

EXAMINED
 PASSED
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

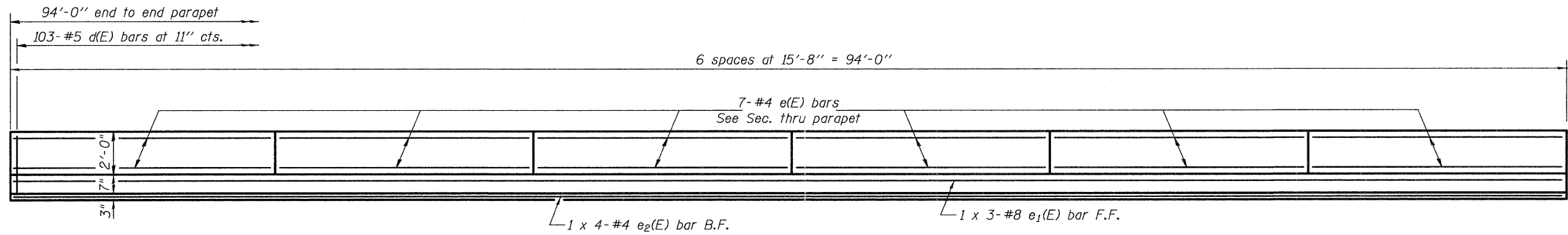
DATE - 10/11/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

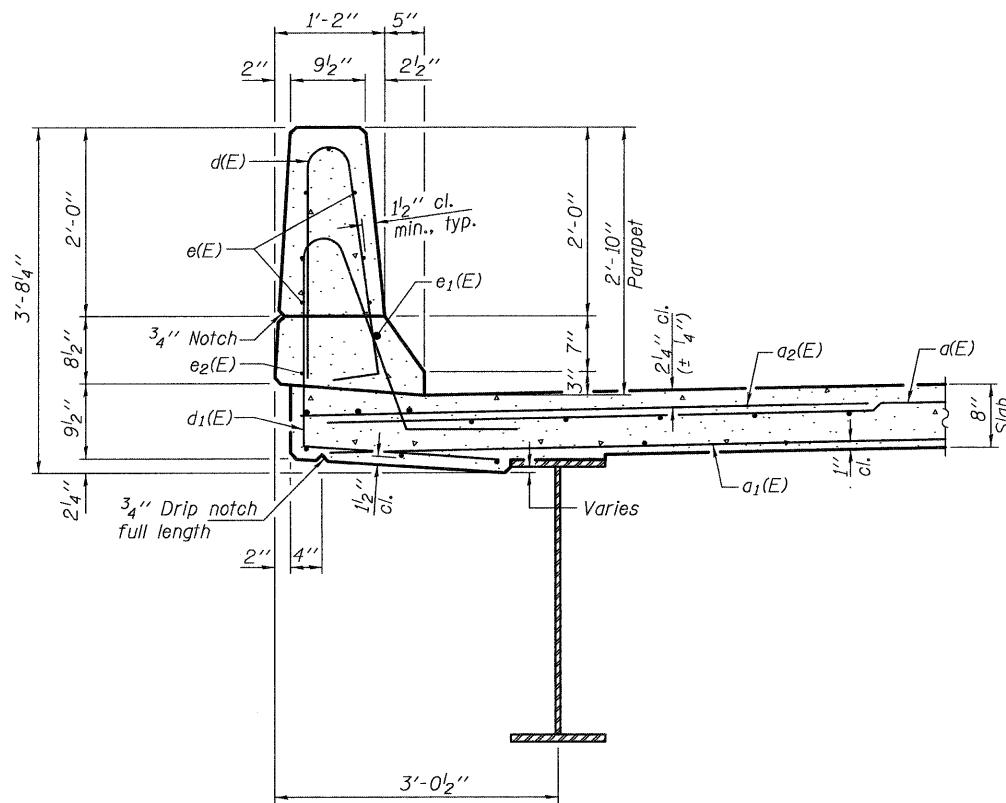
SUPERSTRUCTURE
STRUCTURE NO. 070-0050

SHEET NO. 8 OF 21 SHEETS

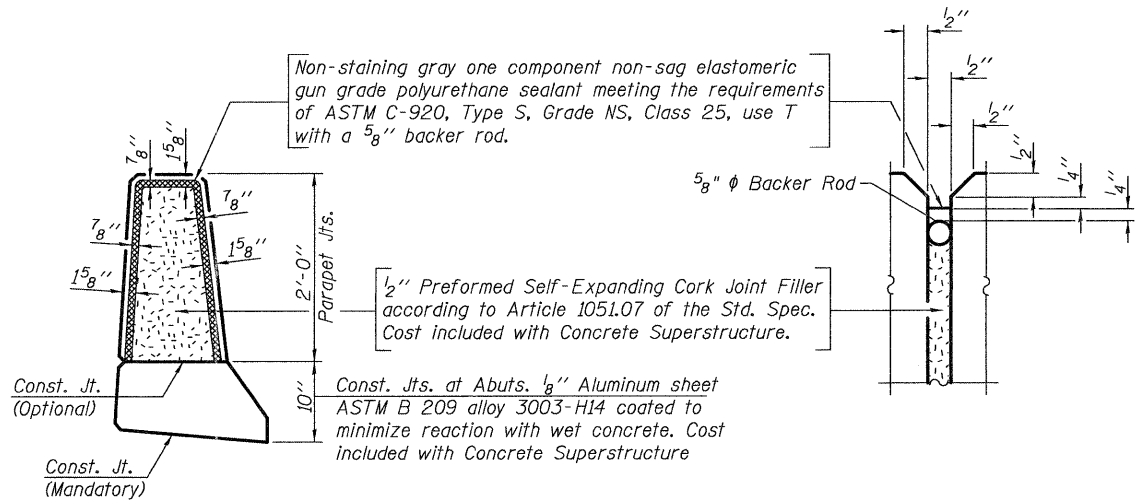
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	48	24
CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT	



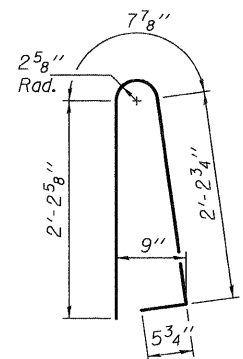
INSIDE ELEVATION OF EAST PARAPET
(Looking East - West parapet similar)



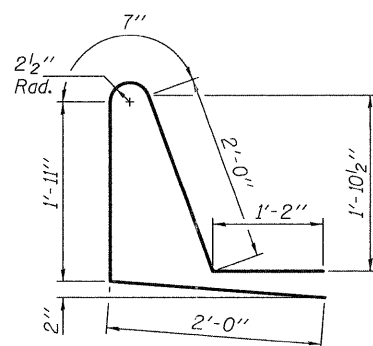
SECTION THRU PARAPET



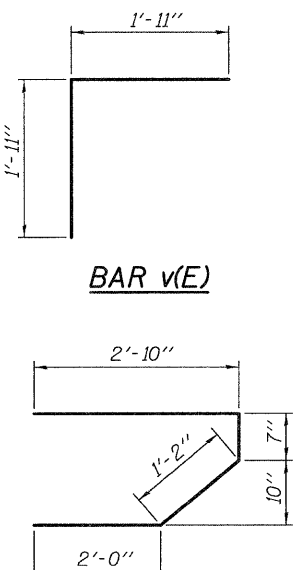
PARAPET JOINT DETAILS



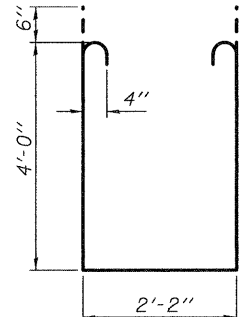
BAR d(E)



BAR d1(E)



BAR s(E)



BAR s1(E)

MIN. BAR LAPS
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	412	#5	21'-1"	—
a1(E)	252	#5	20'-10"	—
a2(E)	412	#6	6'-0"	—
b(E)	138	#5	32'-5"	—
b1(E)	168	#5	24'-9"	—
d(E)	206	#5	5'-7"	U
d1(E)	206	#5	7'-8"	U
e(E)	84	#4	15'-5"	—
e1(E)	6	#8	34'-8"	—
e2(E)	8	#4	24'-11"	—
m1(E)	20	#6	21'-3"	—
m2(E)	24	#6	10'-9"	—
m3(E)	8	#6	7'-0"	—
m4(E)	4	#6	2'-8"	—
m5(E)	4	#6	3'-5"	—
s(E)	92	#5	6'-7"	U
s1(E)	84	#4	11'-2"	U
v(E)	88	#5	3'-10"	Γ
Reinforcement Bars, Epoxy Coated		Pound	34410	
Concrete Superstructure		Cu. Yds.	158.3	

Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.

DESIGNED - Stephen M. Ryan
CHECKED - F. Teklehaimanot
DRAWN - h.t. duong
CHECKED - SMR/FT

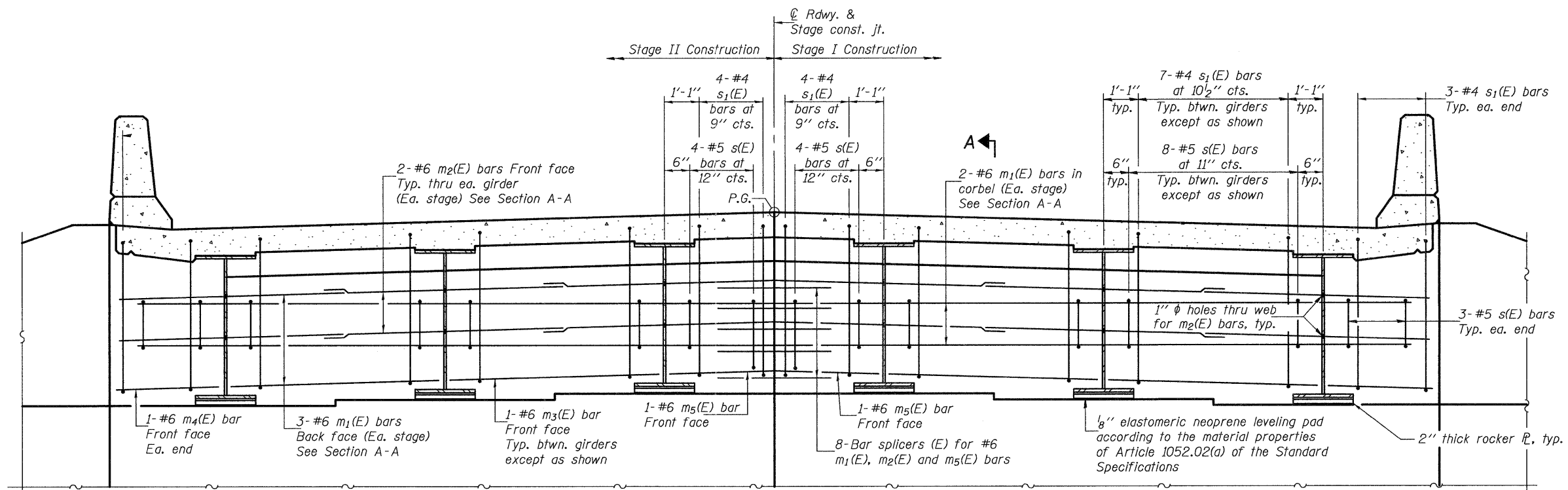
EXAMINED
PASSED
DATE - 10/11/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 070-0050

SHEET NO. 9 OF 21 SHEETS

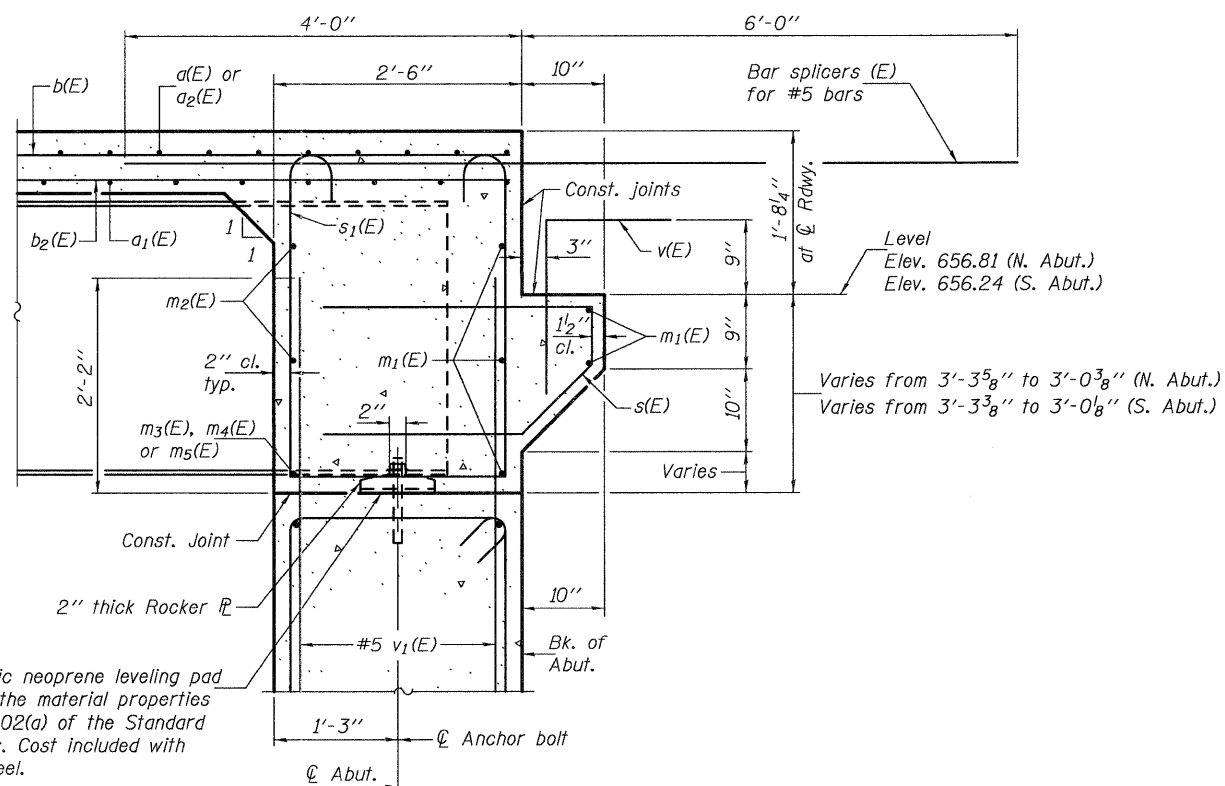
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	43	25
				CONTRACT NO. 74280
ILLINOIS FED. AID PROJECT				



DIAPHRAGM ELEVATION AT SOUTH ABUTMENT

(Looking South - North abutment similar)

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 21.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 21.
 For details of bars s(E) & s₁(E) see sheet 9 of 21.
 See sheet 13 of 21 for holes thru web for m₂(E) bars.
 For bar splicer (E) details see sheet 17 of 21.
 See sheets 15 & 16 of 21 for vertical v₁(E) bars extending out of the abutment caps into the abutment diaphragms.



MIN. BAR LAP
 #6 bar = 3'-4"

SECTION A-A

DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

EXAMINED
 PASSED
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/11/2011

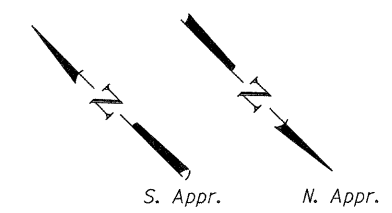
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
 STRUCTURE NO. 070-0050

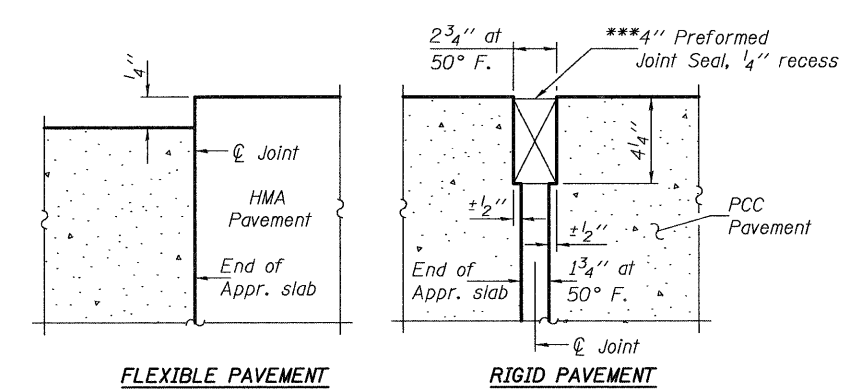
SHEET NO. 10 OF 21 SHEETS

F.A.P. RTE. 320	SECTION (102BY)B-1	COUNTY MOULTRIE	TOTAL SHEETS 48	SHEET NO. 26
				CONTRACT NO. 74280
ILLINOIS FED. AID PROJECT				

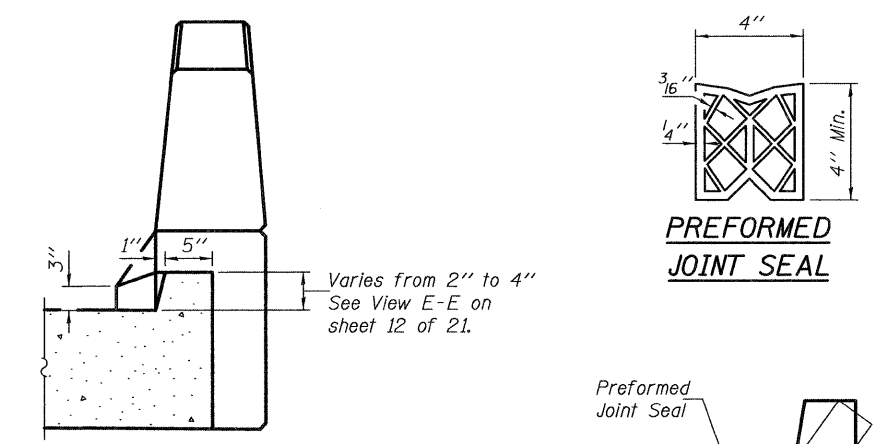
Notes: See sheet 12 of 21 for Sections C-C & D-D and View E-E.
 a_{100} (E), a_{101} (E), and w_{100} (E) bar spacings measured perpendicular to C.R.



***Cost included with Concrete Superstructure.



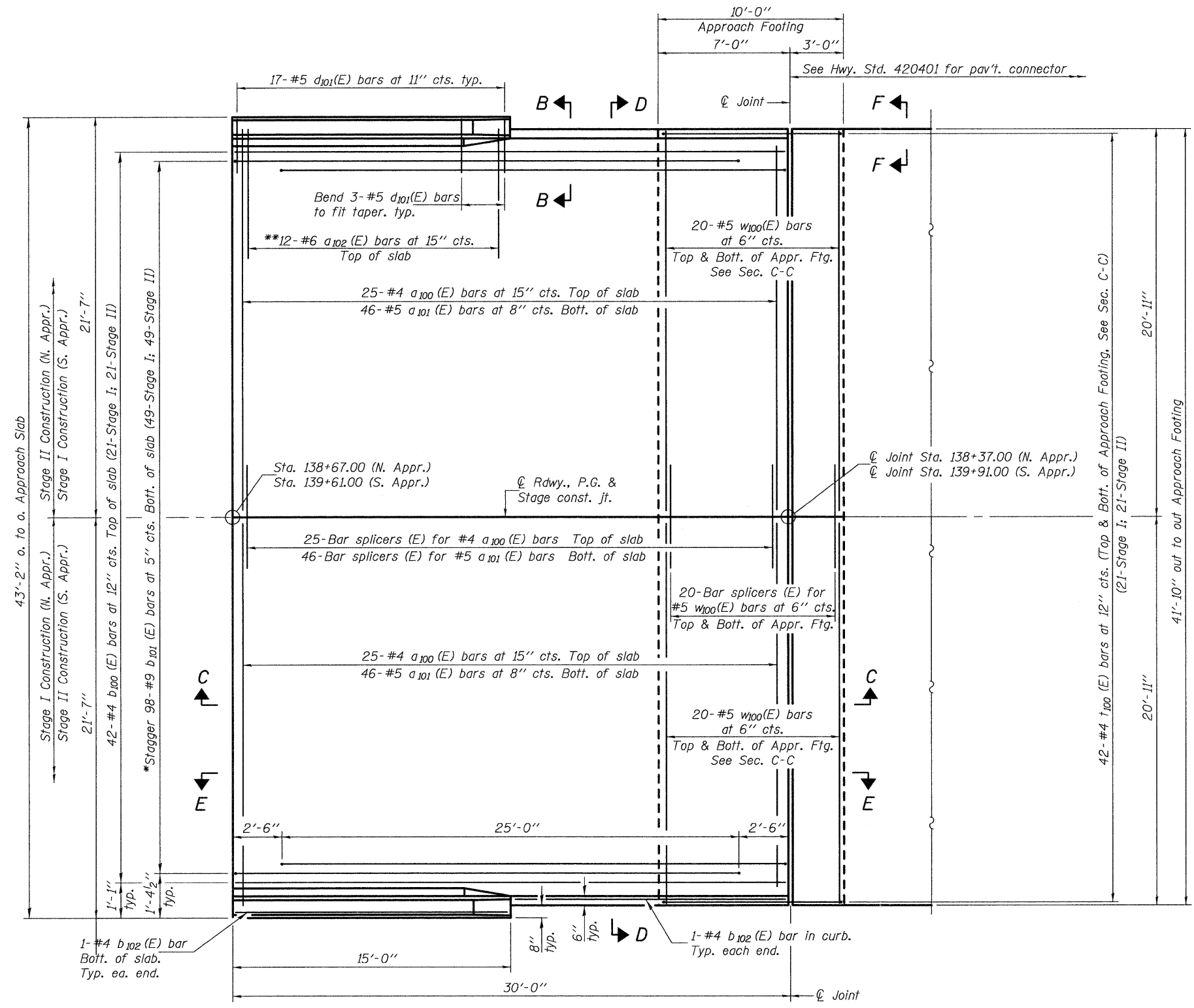
DETAIL A



VIEW B-B

VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

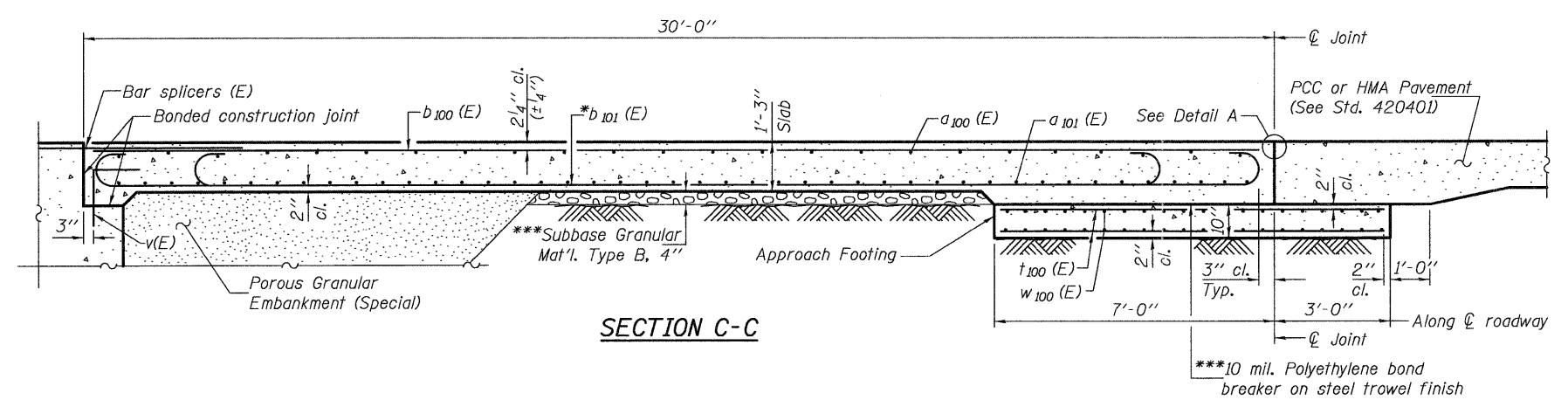


PLAN

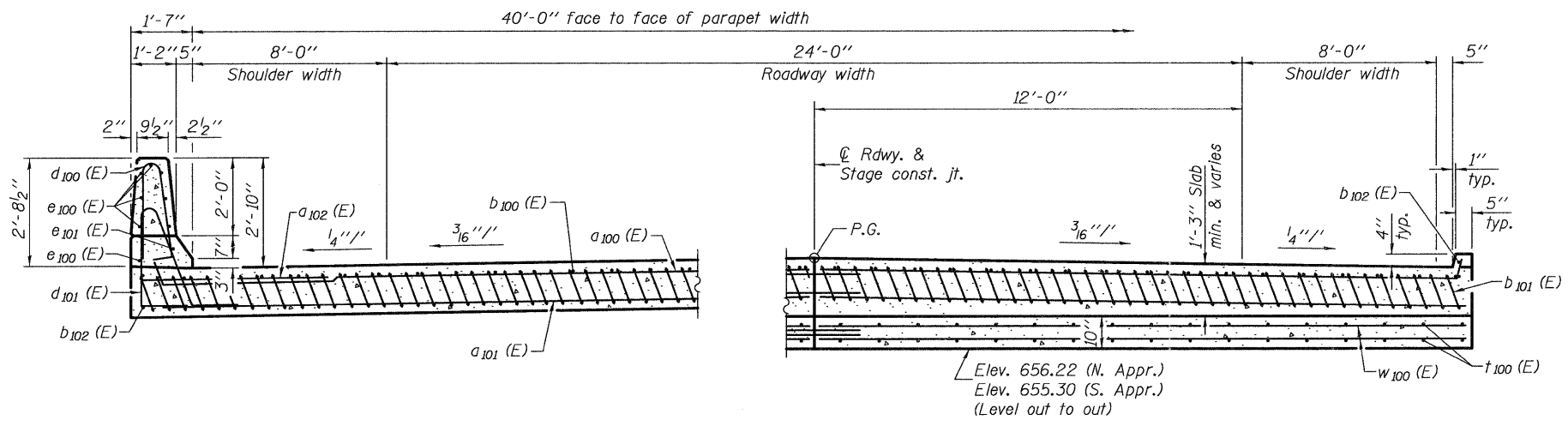
*Tilt #9 b_{101} (E) bars as required to maintain clearance.
 **Spaced between a_{100} (E) bars, typ. ea. parapet.

DESIGNED - Stephen M. Ryan	EXAMINED - <i>Thomas J. Demagala</i>	DATE - 10/11/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BRIDGE APPROACH SLAB DETAILS		F.A.P. RTE. 320	SECTION (I02BY)B-1	COUNTY MOULTRIE	TOTAL SHEETS 48	SHEET NO. 27
CHECKED - F. Teklehaimanot	PASSED - <i>John C. ...</i>				STRUCTURE NO. 070-0050		SHEET NO. 11 OF 21 SHEETS		CONTRACT NO. 74280		ILLINOIS FED. AID PROJECT

Notes:
 See sheet 11 of 21 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 9 of 21.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet 17 of 21.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 1 of 21.
 For additional parapet details, see sheet 9 of 21.



SECTION C-C

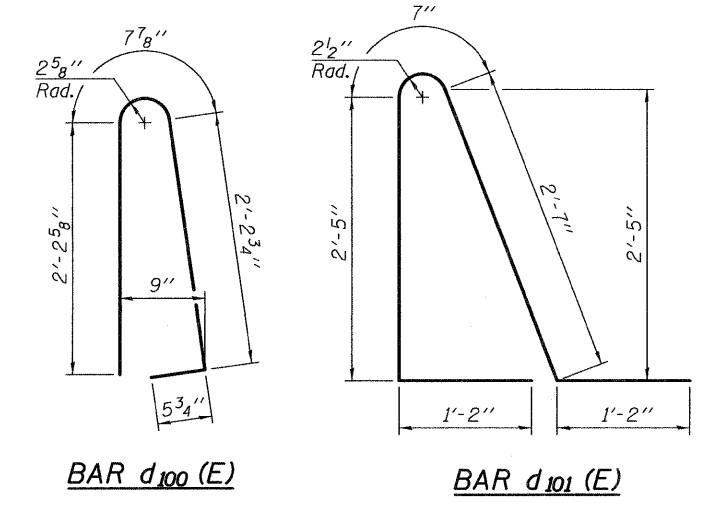


NEAR ABUTMENT

SECTION D-D

(See Plan for dimensions not shown)

AT APPROACH FOOTING

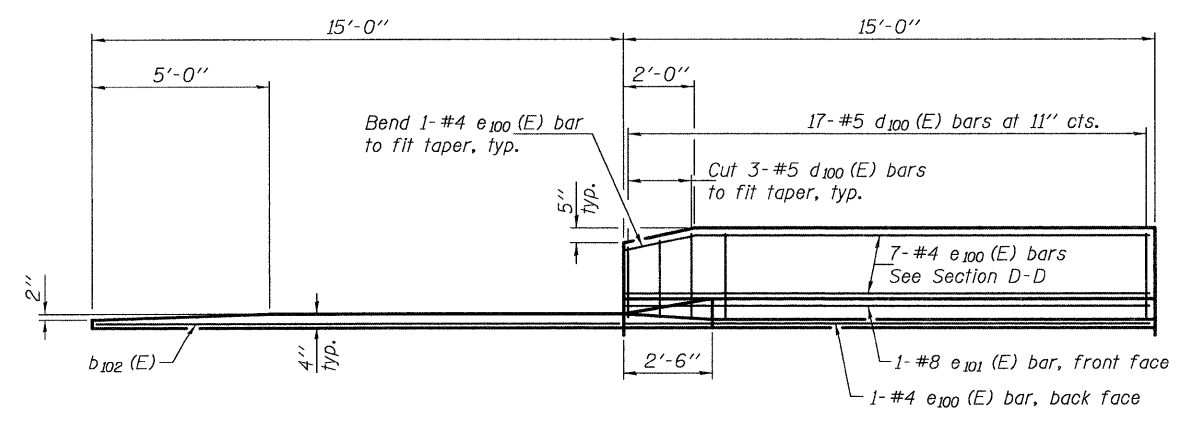


BAR d100(E)

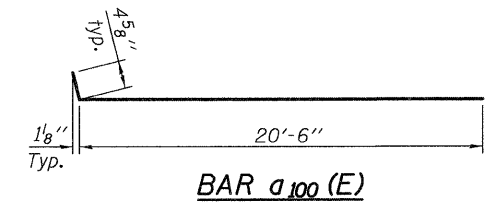
BAR d101(E)

TWO APPROACHES
 BILL OF MATERIAL

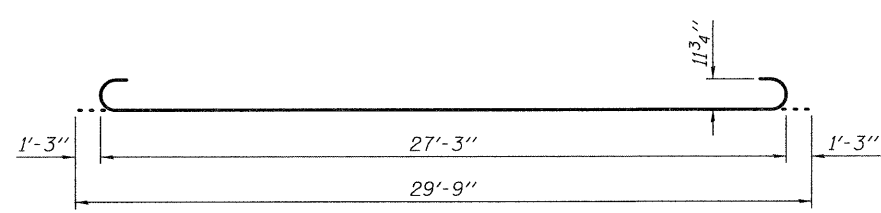
Bar	No.	Size	Length	Shape
a100(E)	100	#4	20'-11"	U
a101(E)	184	#5	20'-7"	U
a102(E)	48	#6	6'-6"	U
b100(E)	84	#4	29'-8"	—
b101(E)	196	#9	29'-9"	U
b102(E)	8	#4	14'-8"	—
d100(E)	68	#5	5'-7"	U
d101(E)	68	#5	7'-11"	U
e100(E)	32	#4	14'-8"	—
e101(E)	4	#8	14'-8"	—
t100(E)	168	#4	9'-8"	—
w100(E)	160	#5	20'-7"	—
Concrete Superstructure			Cu. Yd.	132.0
Concrete Structures			Cu. Yd.	25.6
Reinforcement Bars, Epoxy Coated			Pound	33330



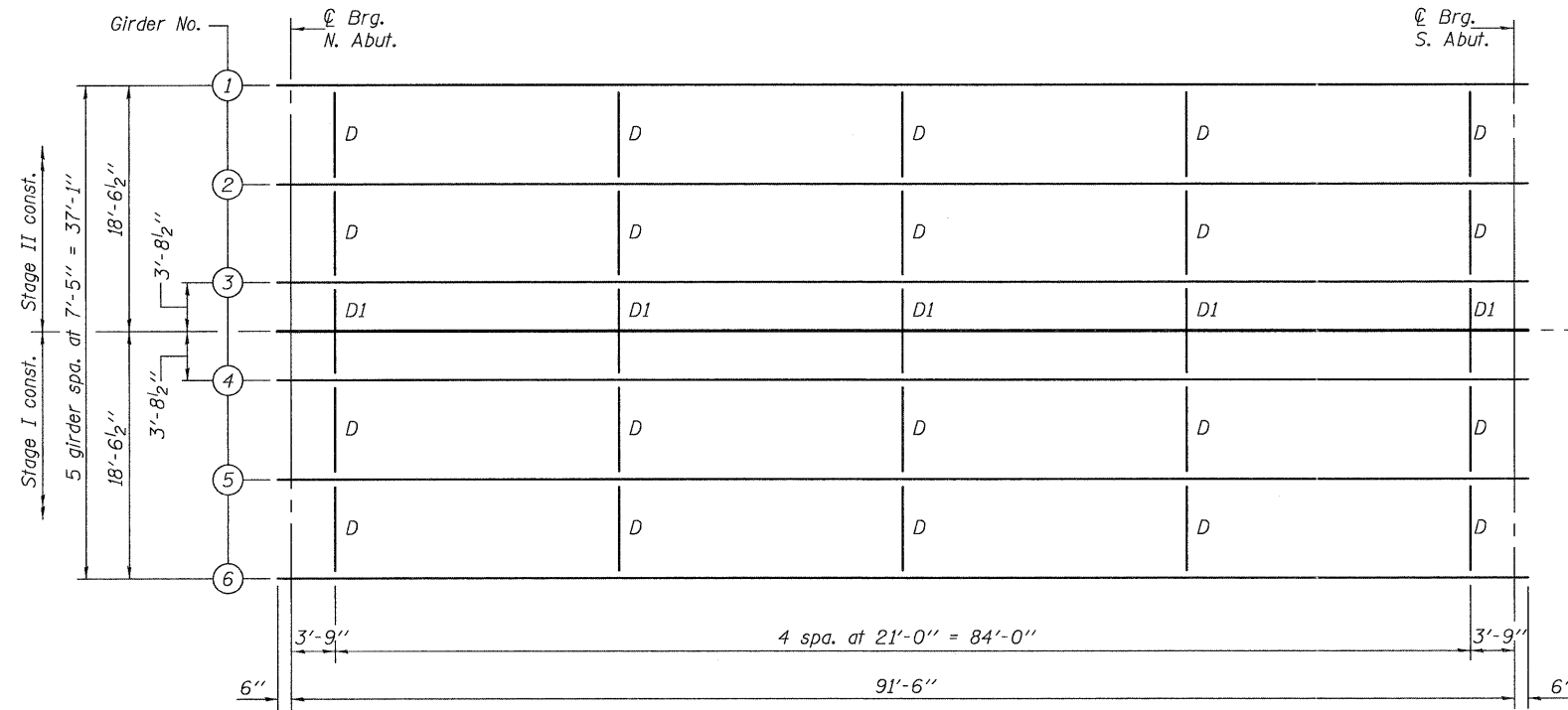
VIEW E-E



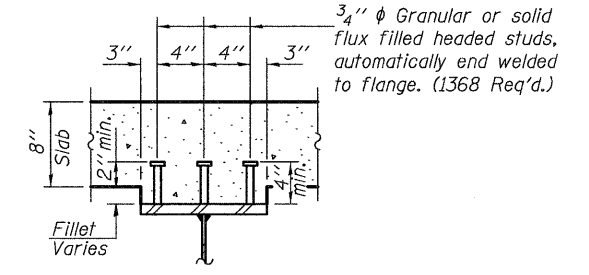
BAR a100(E)



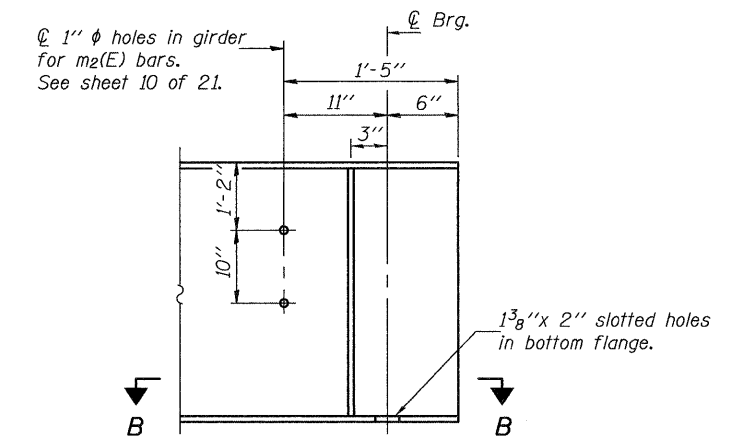
BAR b101(E)



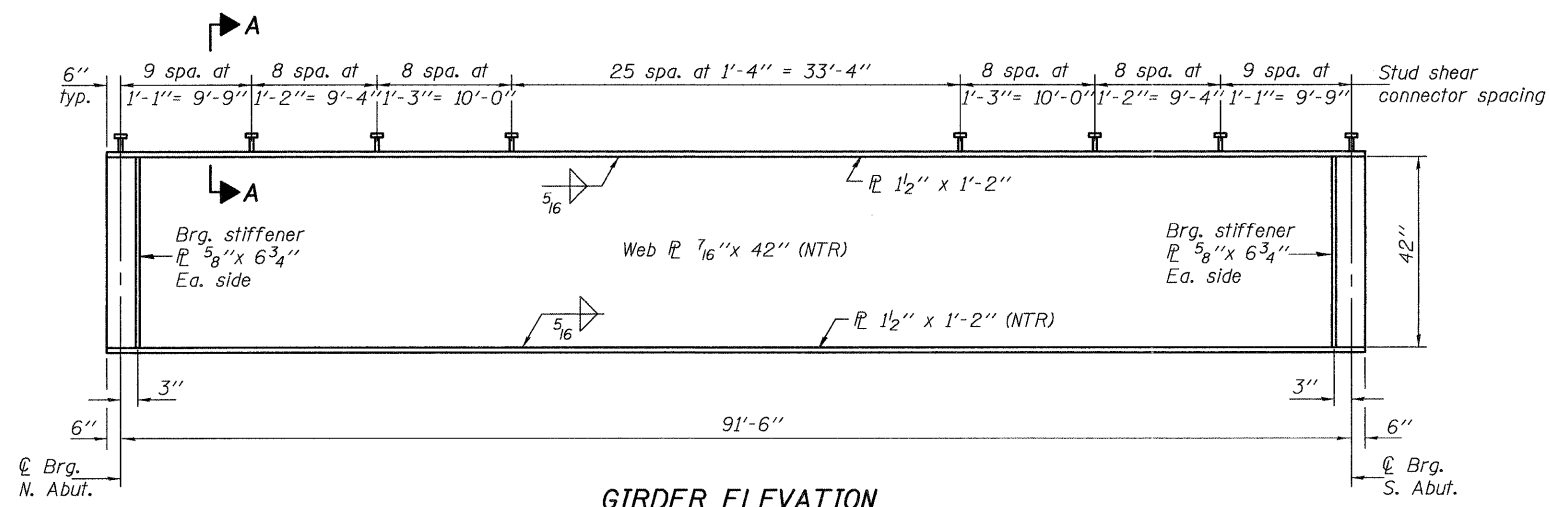
PLAN



SECTION A-A

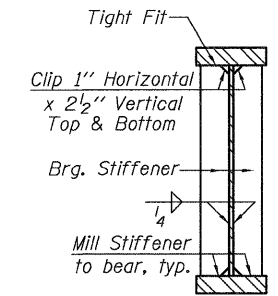


END OF GIRDER ELEVATION

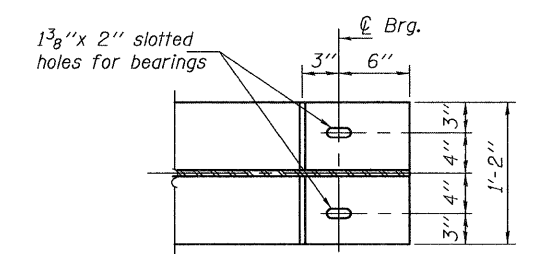


GIRDER ELEVATION

All girder structural steel shall be AASHTO M270 Grade 50.

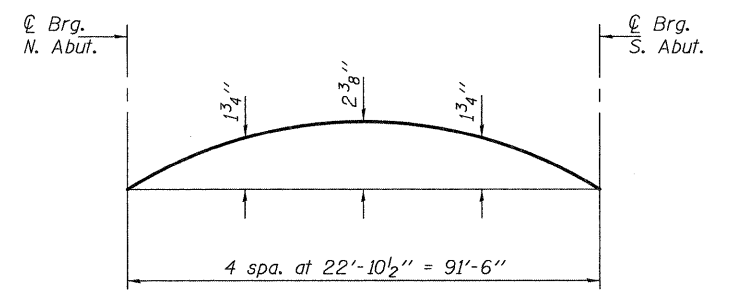


SECTION AT ABUT.



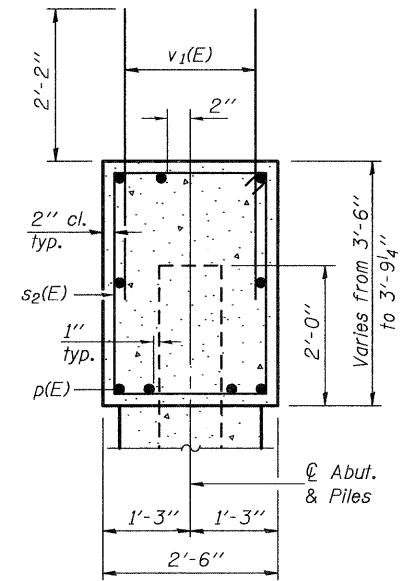
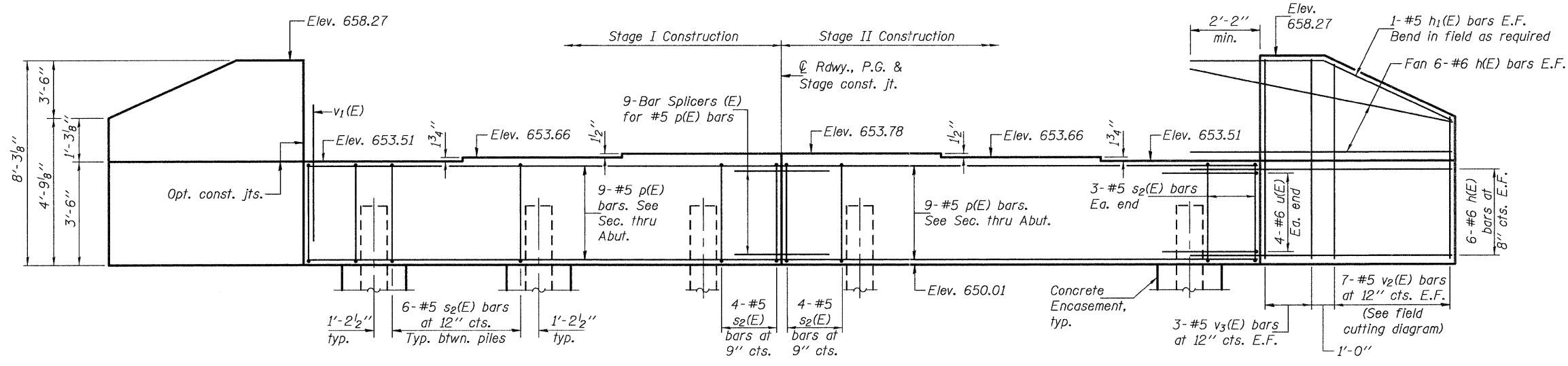
SECTION B-B

Notes: Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2. Two hardened washers shall be required for all oversized holes in diaphragms. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.



CAMBER DIAGRAM

DESIGNED - Stephen M. Ryan	EXAMINED - <i>Thomas J. Demagalaki</i>	DATE - 10/11/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL STRUCTURE NO. 070-0050	F.A.P. RTE. 320	SECTION (102BY)B-1	COUNTY MOULTRIE	TOTAL SHEETS 43	SHEET NO. 29	
CHECKED - F. Teklehaimanot	PASSED - <i>Paul J. ...</i>				SHEET NO. 13 OF 21 SHEETS		CONTRACT NO. 74280			
DRAWN - h.t. duong					ILLINOIS FED. AID PROJECT					
CHECKED - SMR/FT										

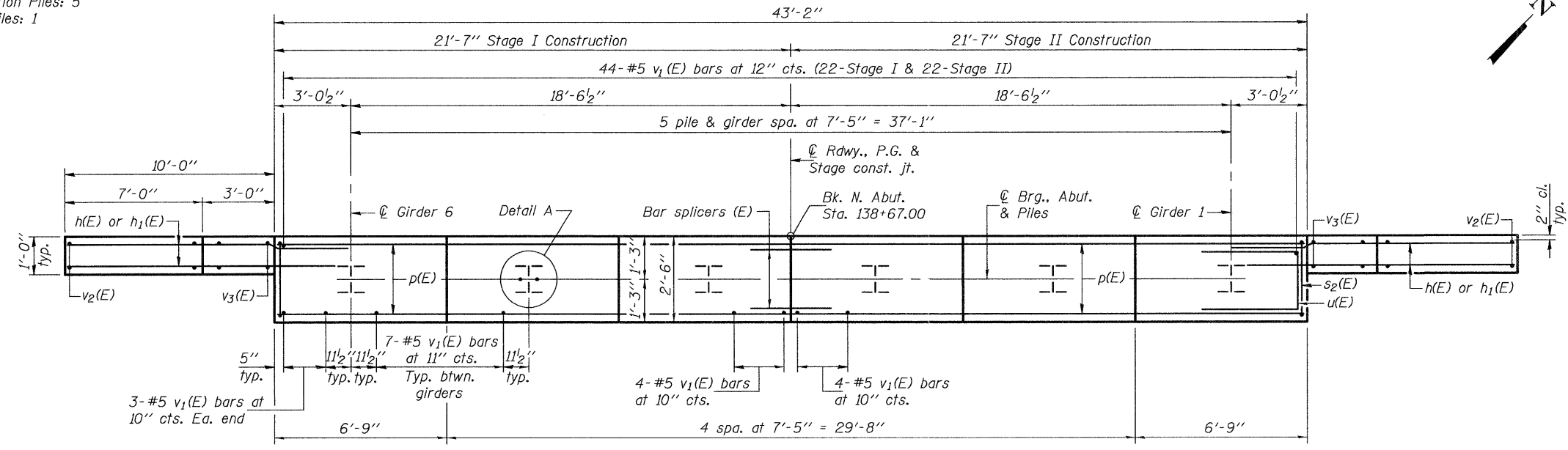


SEC. THRU ABUT.

PILE DATA

Type: Steel HP12x63
 Nominal Required Bearing: 470 Kips
 Factored Resistance Available: 235 Kips
 Est. Length: 65'
 No. Production Piles: 5
 No. Test Piles: 1

ELEVATION
 (Looking North)

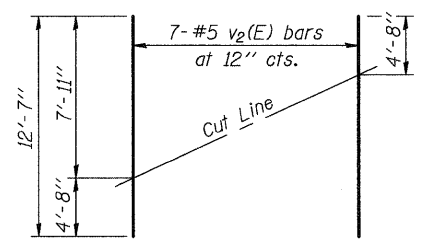


PLAN

BILL OF MATERIAL

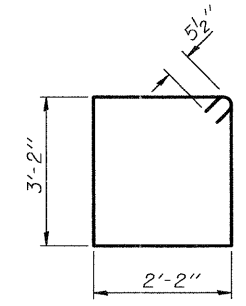
Bar	No.	Size	Length	Shape
h(E)	24	#6	12'-6"	—
h1(E)	4	#5	12'-4"	—
p(E)	18	#5	21'-3"	—
s2(E)	38	#5	11'-7"	□
u(E)	8	#6	7'-3"	□
v1(E)	86	#5	4'-4"	—
v2(E)	14	#5	12'-7"	—
v3(E)	12	#5	7'-11"	—
Structure Excavation			Cu. Yd.	46.0
Concrete Structures			Cu. Yd.	19.8
Reinforcement Bars, Epoxy Coated			Pound	2120
Furnishing Steel Piles HP12x63			Foot	325
Driving Piles			Foot	325
Test Pile Steel HP12x63			Each	1
Concrete Encasement			Cu. Yd.	2.1
Anchor Bolts 1" φ			Each	12

Notes: Four steps monolithically with cap.
 For details of piles and concrete encasement, see sheet 18 of 21.
 Bend h(E) bars in field to miss piles and girders.

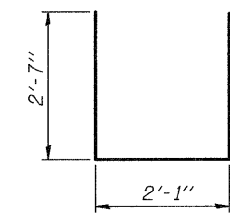


FIELD CUTTING DIAGRAM

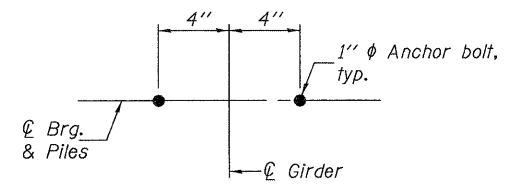
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)



DETAIL A

DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

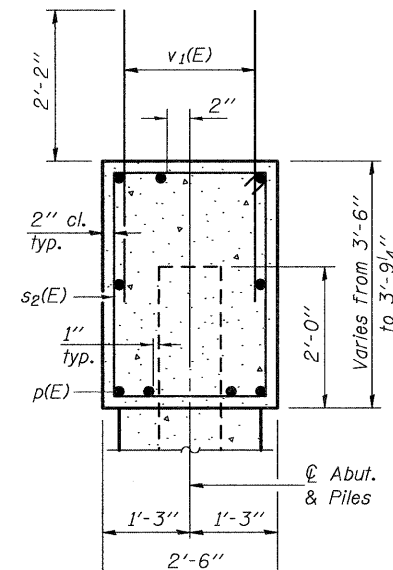
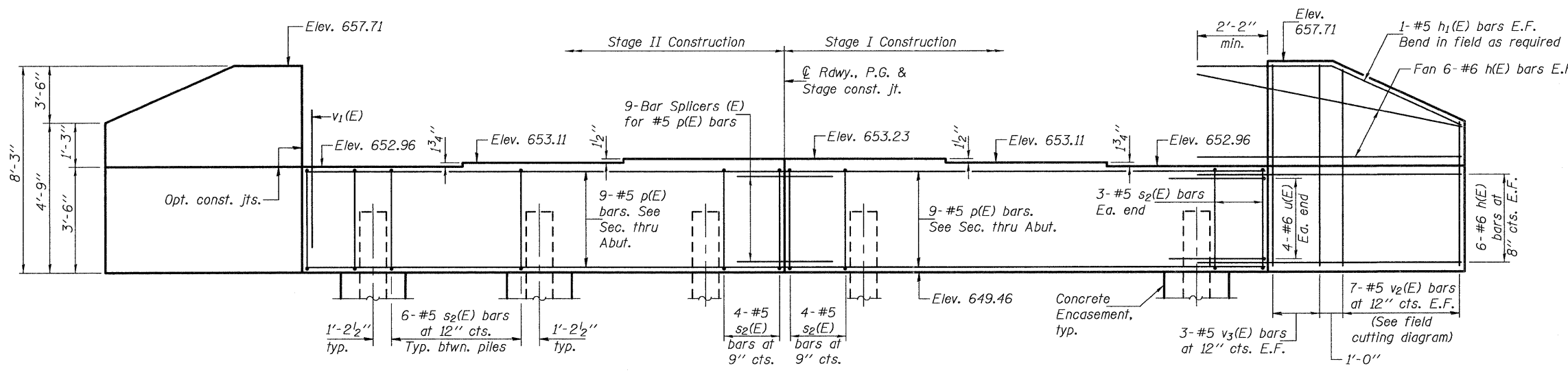
EXAMINED *Thomas Damagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Carl...*
 ENGINEER OF BRIDGES AND STRUCTURES
 DATE - 10/11/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
 STRUCTURE NO. 070-0050

SHEET NO. 15 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	44	31
CONTRACT NO. 74280			ILLINOIS FED. AID PROJECT	

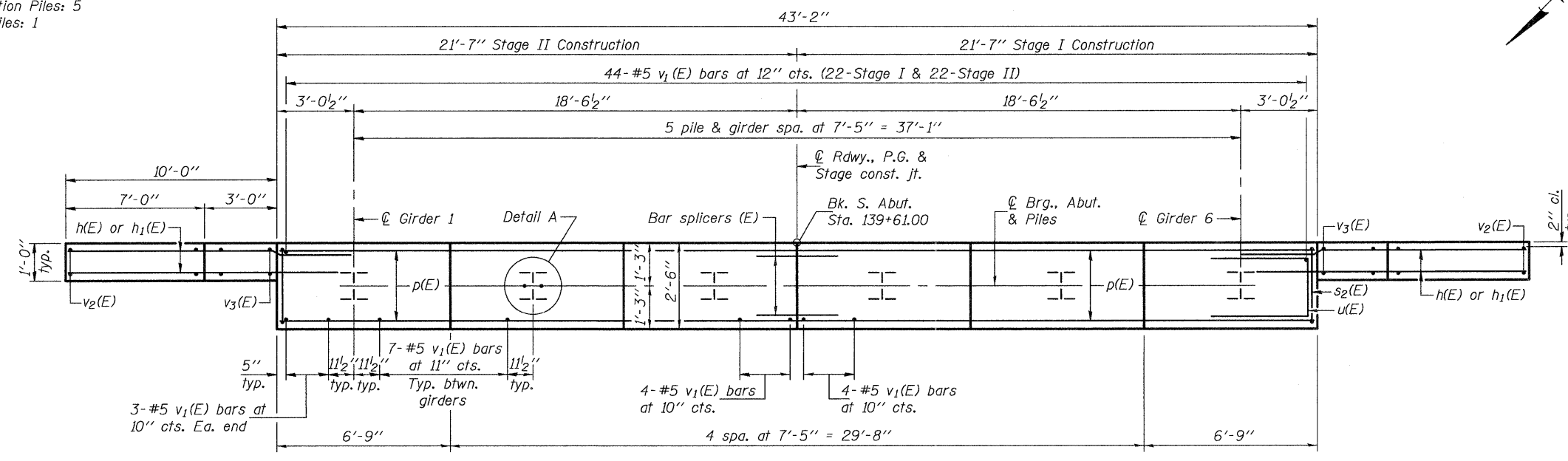


SEC. THRU ABUT.

PILE DATA

Type: Steel HP12x63
 Nominal Required Bearing: 470 Kips
 Factored Resistance Available: 235 Kips
 Est. Length: 87'
 No. Production Piles: 5
 No. Test Piles: 1

ELEVATION
 (Looking South)

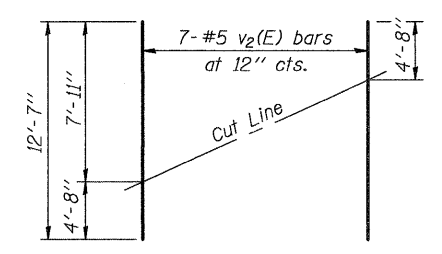


PLAN

BILL OF MATERIAL

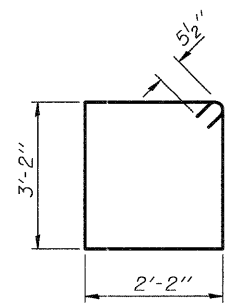
Bar	No.	Size	Length	Shape
h(E)	24	#6	12'-6"	—
h1(E)	4	#5	12'-4"	—
p(E)	18	#5	21'-3"	—
s2(E)	38	#5	11'-7"	□
u(E)	8	#6	7'-3"	⊔
v1(E)	86	#5	4'-4"	—
v2(E)	14	#5	12'-7"	—
v3(E)	12	#5	7'-11"	—
Structure Excavation		Cu. Yd.	46.0	
Concrete Structures		Cu. Yd.	19.8	
Reinforcement Bars, Epoxy Coated		Pound	2120	
Furnishing Steel Piles HP12x63		Foot	435	
Driving Piles		Foot	435	
Test Pile Steel HP12x63		Each	1	
Concrete Encasement		Cu. Yd.	2.1	
Anchor Bolts 1" φ		Each	12	

Notes: Pour steps monolithically with cap.
 For details of piles and concrete encasement, see sheet 18 of 21.
 Bend h(E) bars in field to miss piles and girders.

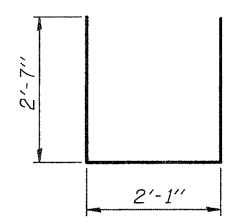


FIELD CUTTING DIAGRAM

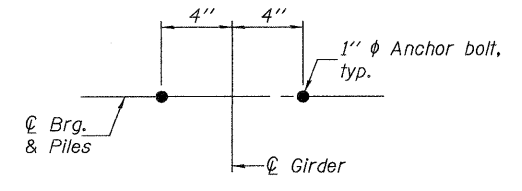
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



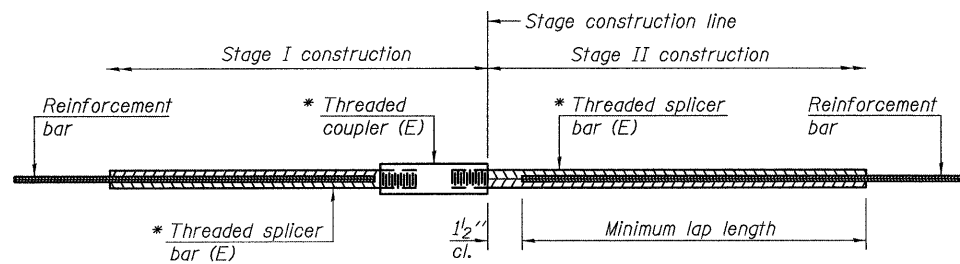
BAR s2(E)



BAR u(E)



DETAIL A



STANDARD BAR SPLICER ASSEMBLY

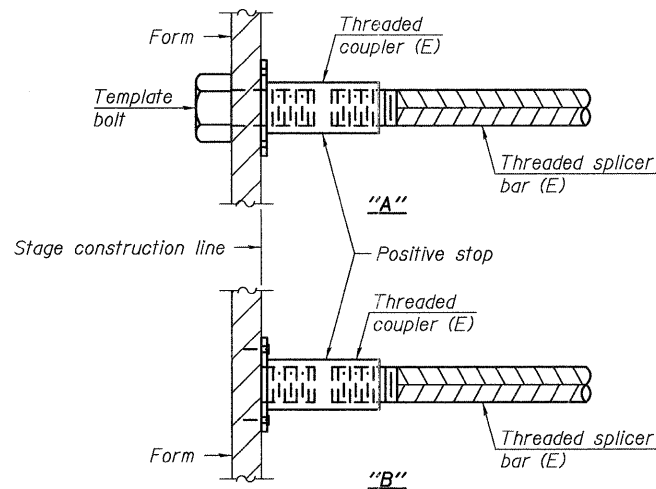
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

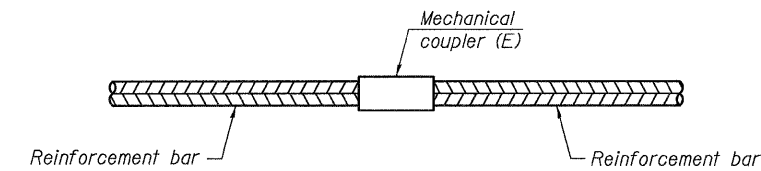
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	332	3
Conc. Diaphragm	#6	16	3
Abutment Subs.	#5	18	3
Appr. Slab	#4	50	3
Appr. Slab	#5	172	3



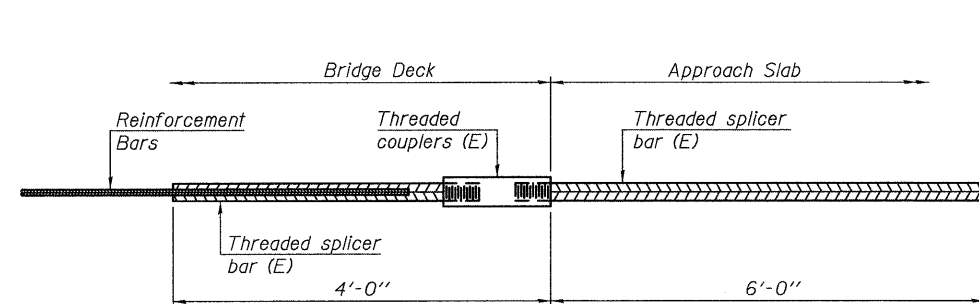
INSTALLATION AND SETTING METHODS

"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.



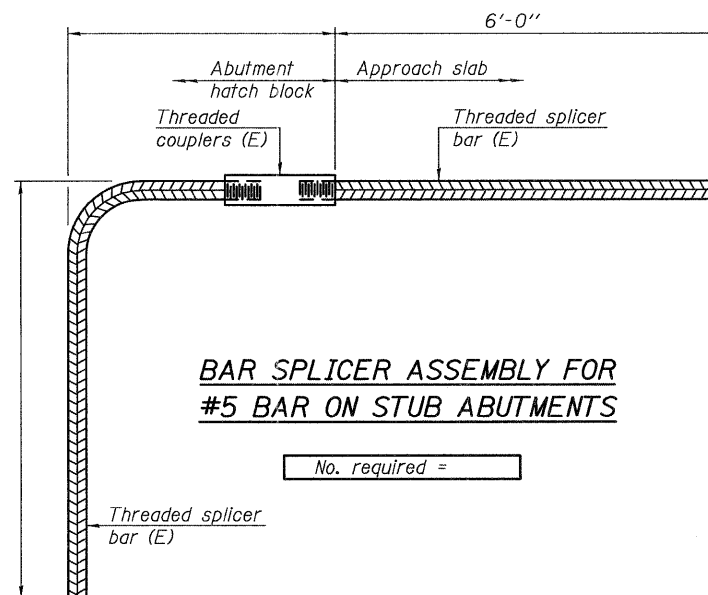
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 88



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

DESIGNED - Stephen M. Ryan
 CHECKED - F. Teklehaimanot
 DRAWN - h.t. duong
 CHECKED - SMR/FT

EXAMINED
 PASSED
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

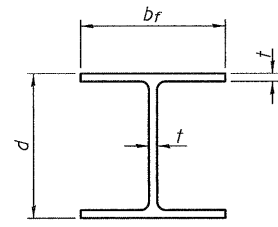
DATE - 10/11/2011

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 070-0050

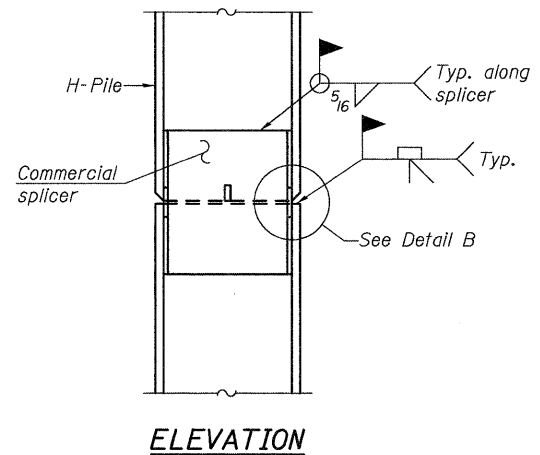
SHEET NO. 17 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	(102BY)B-1	MOULTRIE	44	33
CONTRACT NO. 74280				ILLINOIS FED. AID PROJECT

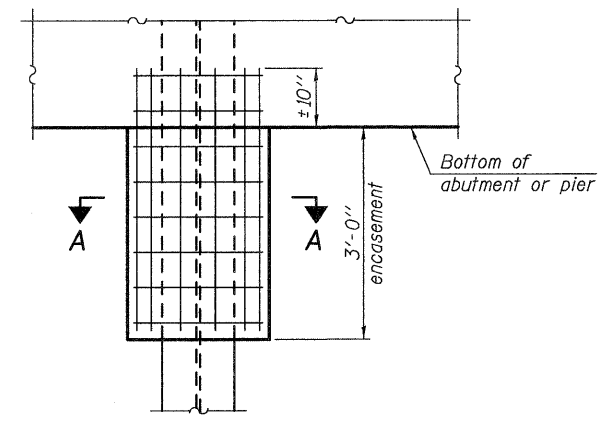


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

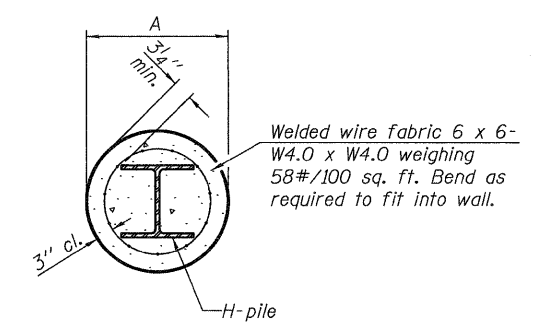


ELEVATION



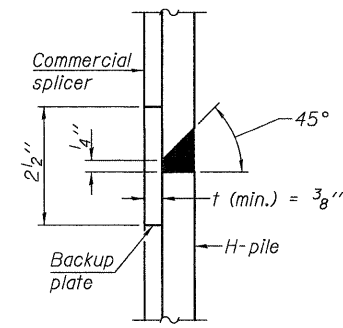
ELEVATION

PILE ENCASEMENT



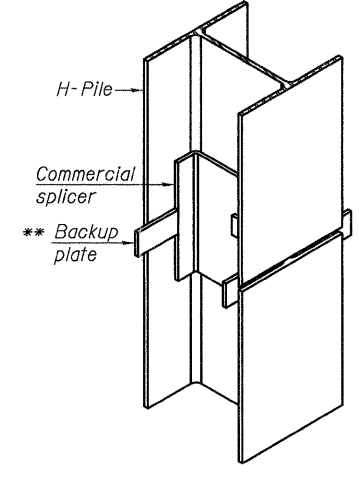
SECTION A-A

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

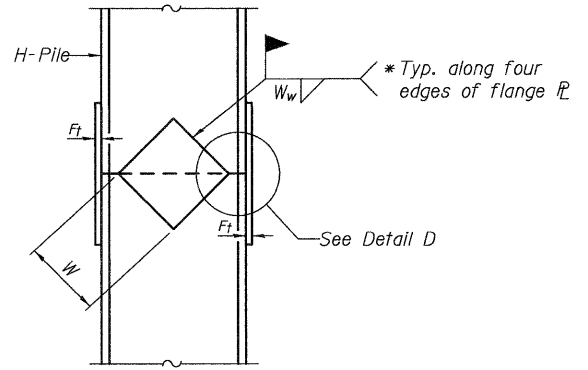


DETAIL "B"

WELDED COMMERCIAL SPLICE

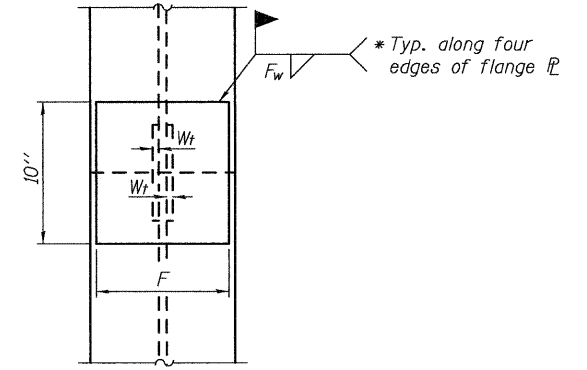


ISOMETRIC VIEW



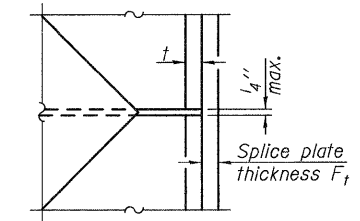
ELEVATION

WELDED PLATE FIELD SPLICE

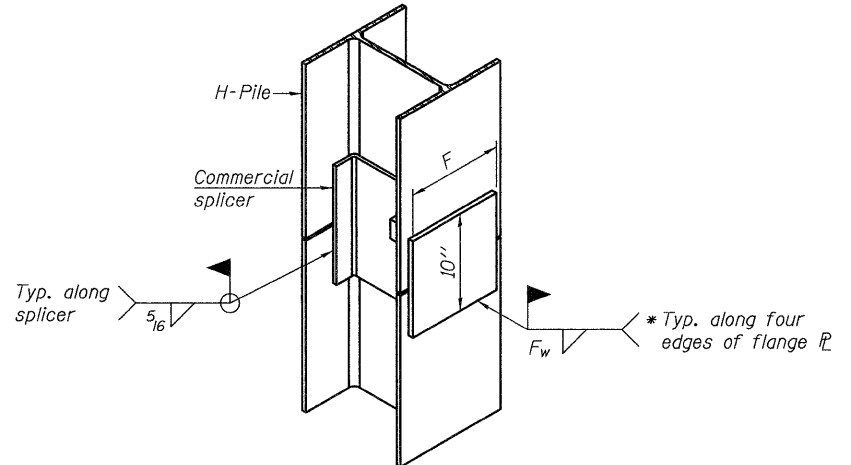


END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 8/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 8/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 8/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



DETAIL D

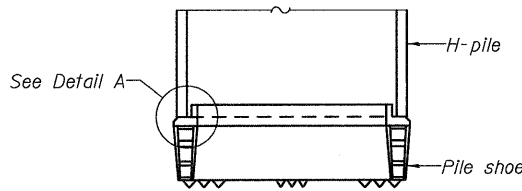


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

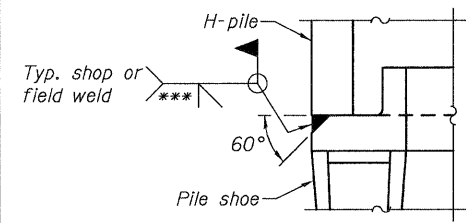
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

DETAIL A

H-PILE SHOE ATTACHMENT



F-HP 7-1-10

Illinois Department of Transportation
Division of Highways
District 7 - Materials

SOIL BORING LOG

Page 3 of 4
Date 7/30/07

ROUTE FAP 320 (IL 121) DESCRIPTION Marrow Bone Creek LOGGED BY E. Sandschafer

SECTION (102BY)B-1 LOCATION NW 1/4, SEC. 9, TWP. 14 N, RNG. 4 E, 3 PM

COUNTY Moultrie DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 070-0001
Station 139+18.3

BORING NO. 2
Station 139+70
Offset 13.00ft LI
Ground Surface Elev. 656.85 ft

DEPTH (ft)	BLOWS	SPT	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS	SPT	MOISTURE (%)
18	4.3	15		Hard, very moist, gray, CLAY LOAM TILL. (continued)	22	4.6	11	
32	S				35	B		
19				Very dense, moist, gray, SILTY CLAY SHALE.	547.35	50/5"		
28	4.5	10		Borehole continued with rock coring.	546.75	50/2"	2.4	5
32	PP					50/1"	S	

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 7 - Materials

ROCK BORING LOG

Page 4 of 4
Date 7/30/07

ROUTE FAP 320 (IL 121) DESCRIPTION Marrow Bone Creek LOGGED BY E. Sandschafer

SECTION (102BY)B-1 LOCATION NW 1/4, SEC. 9, TWP. 14 N, RNG. 4 E, 3 PM

COUNTY Moultrie CORING METHOD Rotary, surf. set diamond bit

STRUCT. NO. 070-0001
Station 139+18.3

BORING NO. 2
Station 139+70
Offset 13.00ft LI
Ground Surface Elev. 656.85 ft

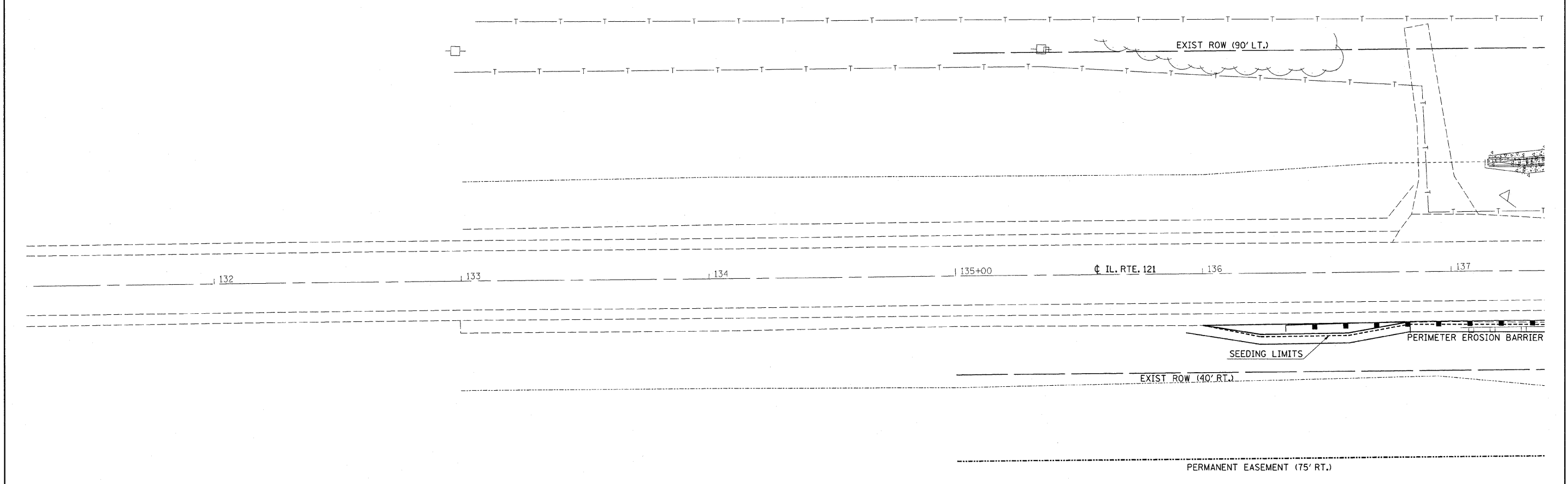
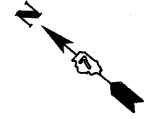
CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 547.35 ft
Begin Core Elev. 546.75 ft

DEPTH (ft)	CORING	REMARKS	CORRECTION (%)	CORE QUALITY	SPT	UCS (min/ft)
546.75	B2-1	Gray, moderately weathered, SILTY CLAY SHALE.	91	54	0.9	
		Rock core sample B2C1 @ 111.6' to 112.1' depth = 5.9 tsf Qu.				
	B2-2		94	78	1.2	
		Rock core sample B2C2 @ 115.6' to 116.1' depth = 9.0 tsf Qu.				
537.05		Extent of exploration.				

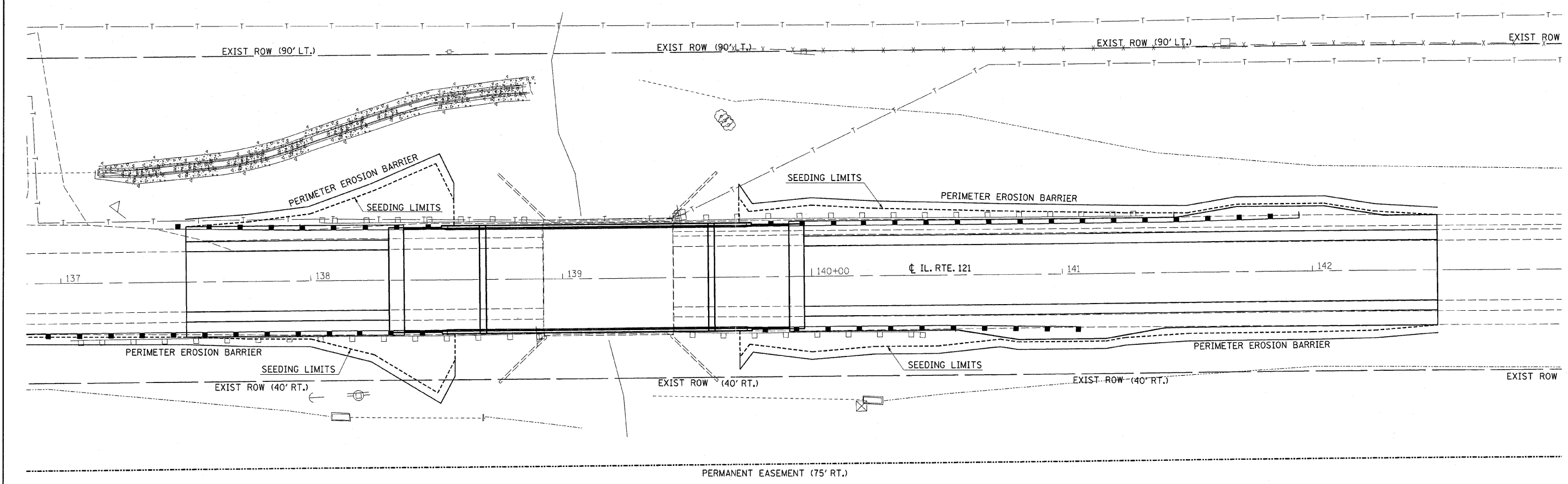
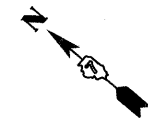
Benchmark: BM 201 Chiseled square on top of NE wingwall on existing structure 070-0001, Sta 139+44, 23.4 LI = 657.57' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 07/30/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)

DESIGNED -	EXAMINED	DATE - 10/11/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 070-0050	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	PASSED	ENGINEER OF BRIDGE DESIGN			320	(102BY)B-1	MOULTRIE	45	31	
DRAWN -		ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 21 OF 21 SHEETS			CONTRACT NO. 74280		
CHECKED -					ILLINOIS FED. AID PROJECT					



FILE NAME = c:\pw\work\pw\dot\swartzrw\dms52812\d774280-sht-erosioncontrol.dgn	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,000' / 1" =	DRAWN -	REVISED -		320	(102BY)B-1	MOULTRIE	48	38			
PLOT DATE = 8/9/2011	CHECKED -	REVISED -	SCALE: 20			SHEET NO. 1 OF 2 SHEETS		STA. 132+00 TO STA. 137+00		CONTRACT NO. 74280		
	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									



EROSION CONTROL GENERAL NOTES

EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

1. THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:
 - (a) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES THAT WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.
 - (b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - (c) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (a) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.
 - (b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

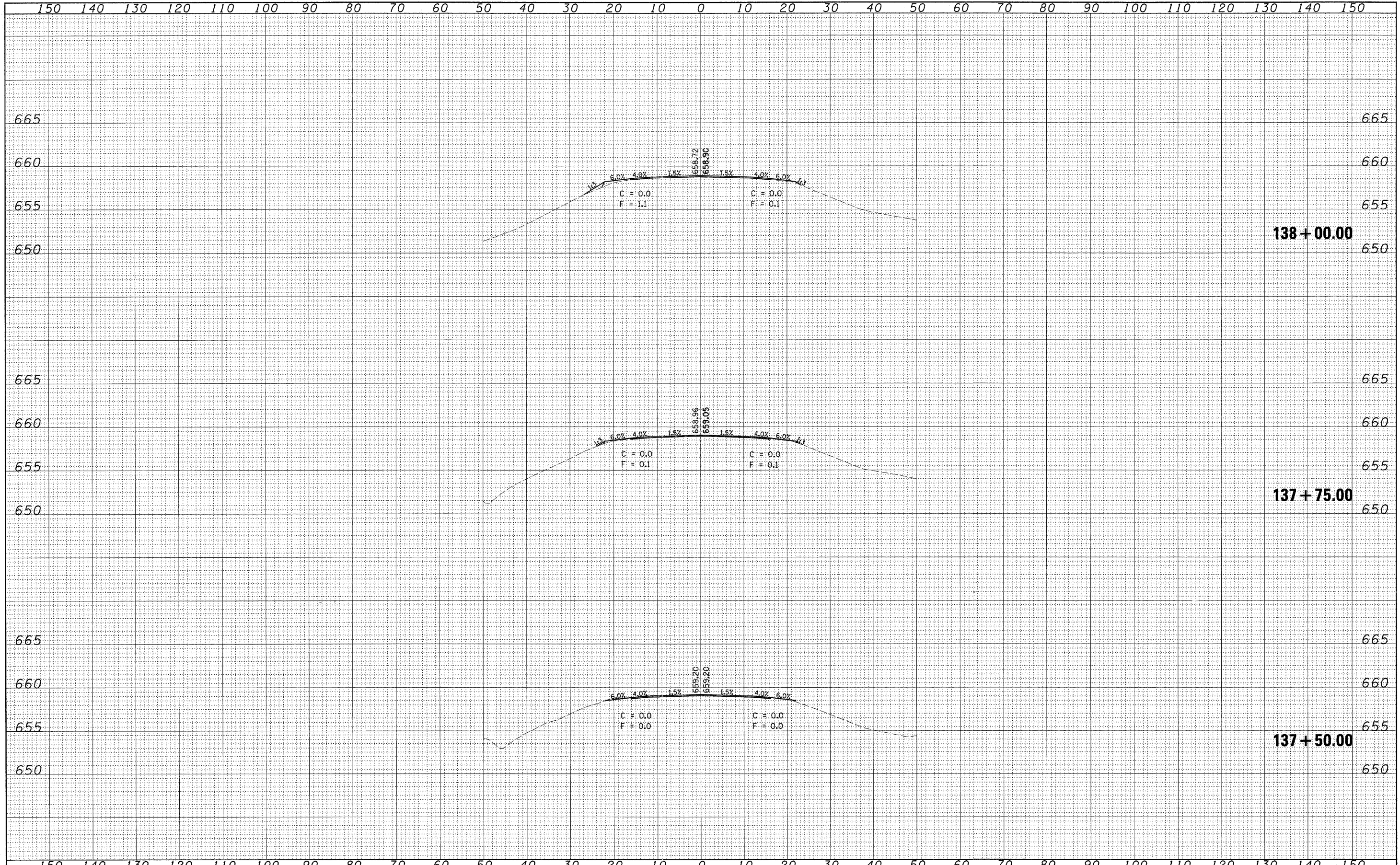
EROSION CONTROL MEASURES AFTER FINAL GRADING:

1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADE.
 - (a) TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 20.0000' / 1" =	CHECKED -	REVISED -				CONTRACT NO. 74280				
	PLOT DATE = 8/9/2011	DATE -	REVISED -				SCALE: 20	SHEET NO. 2 OF 2 SHEETS	STA. 137+00 TO STA. 142+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

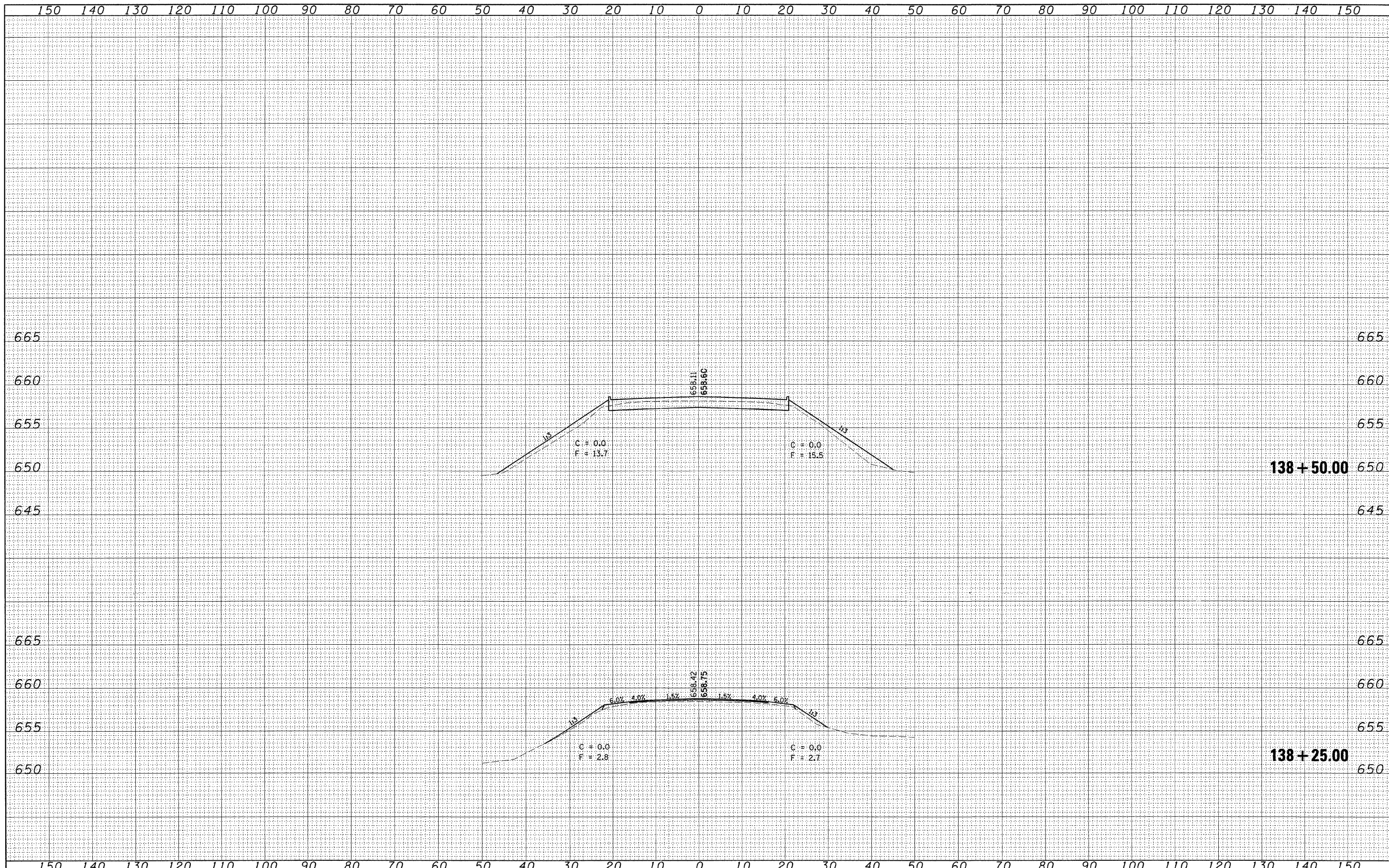
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -										
	PLOT DATE = 8/9/2011	DATE -	REVISED -										
											CONTRACT NO. 74280		
											ILLINOIS FED. AID PROJECT		

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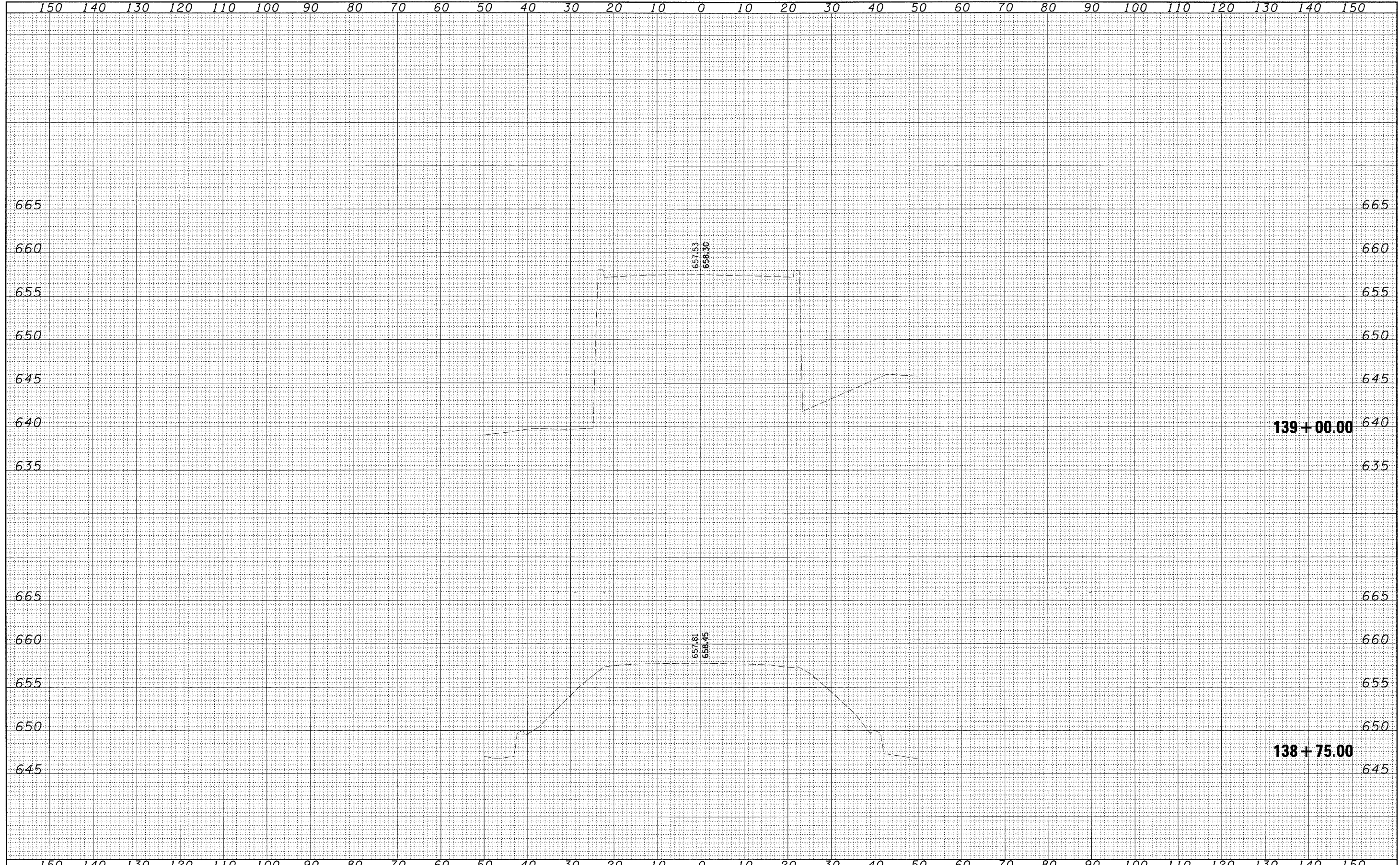
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ca:\pw_work\p\pidot\swartzw\dms39240\d774280-sh	xsections.dgn	DRAWN -	REVISED -		320	(102BY)B-1	Moultrie	48	41				
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PLOT DATE = 8/9/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										

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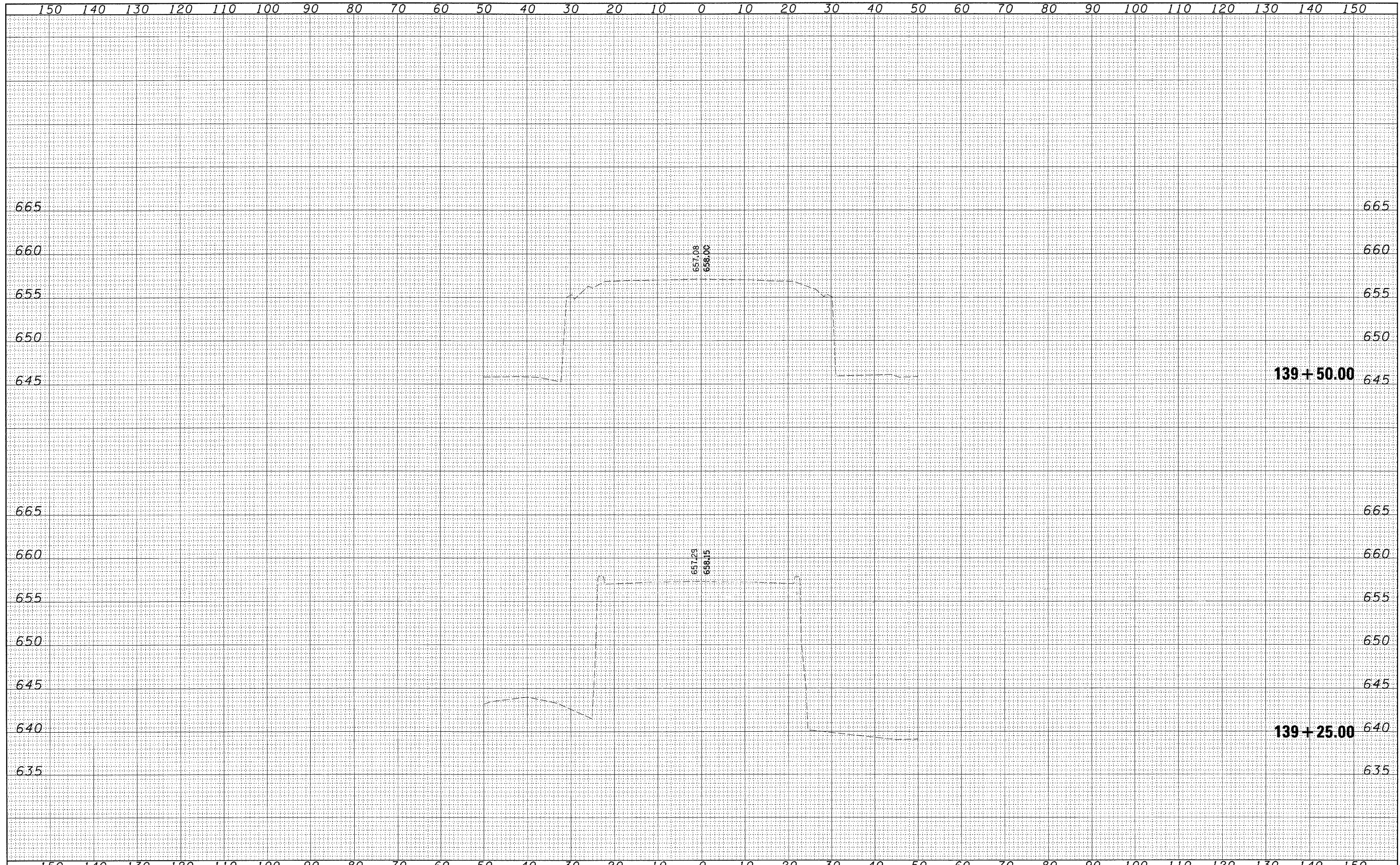
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ce:\pw\work\pwwid\swartzw\dms39240\d774280-sh-xsections.dgn		DRAWN -	REVISED -		320	(102B)B-1	Moultrie	48	42				
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PLOT DATE = 8/9/2011		DATE -	REVISED -		SCALE: 10	SHEET NO. 3 OF 9 SHEETS	STA. 138+75.00 TO STA. 139+00.00	ILLINOIS FED. AID PROJECT					

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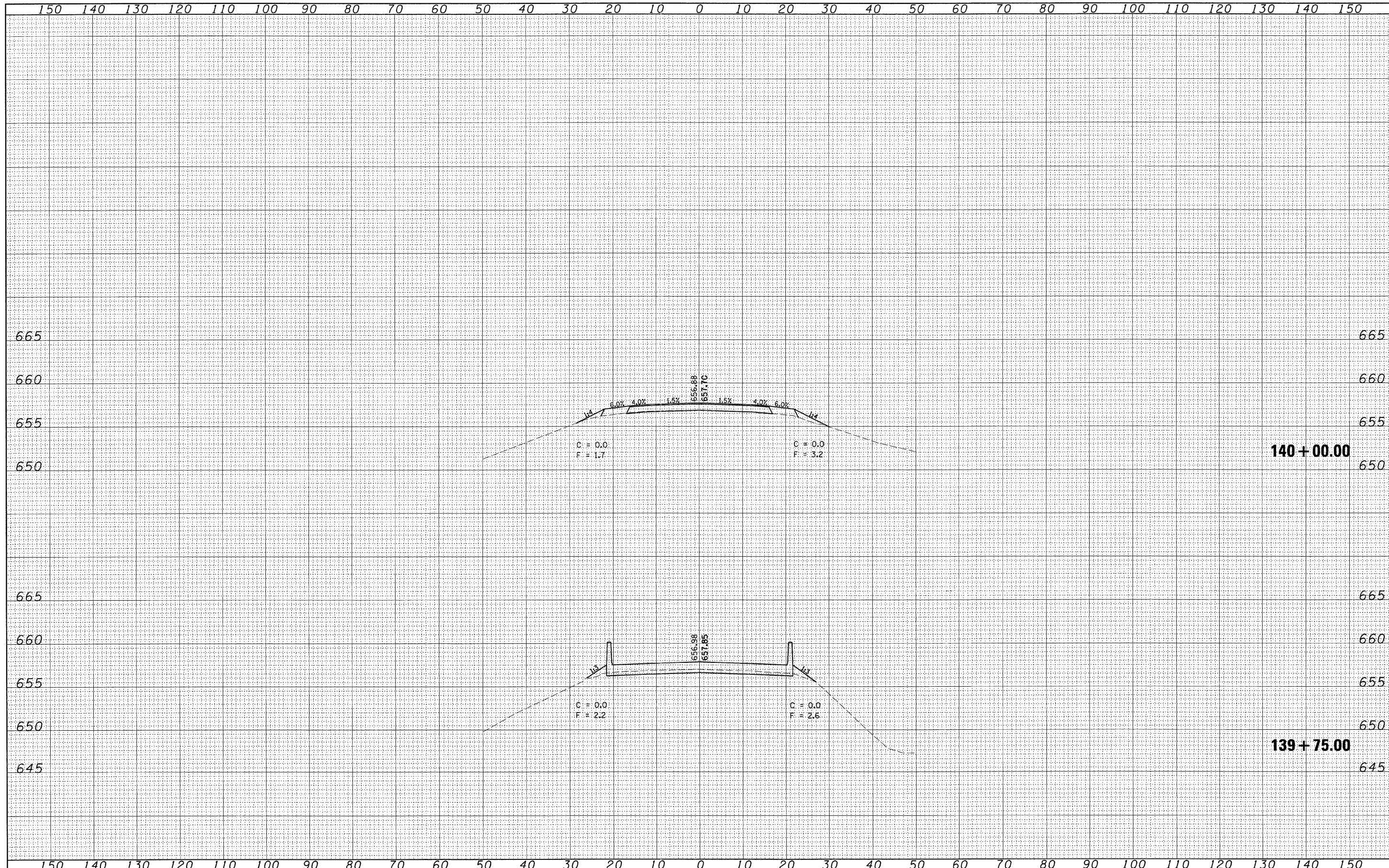
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		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

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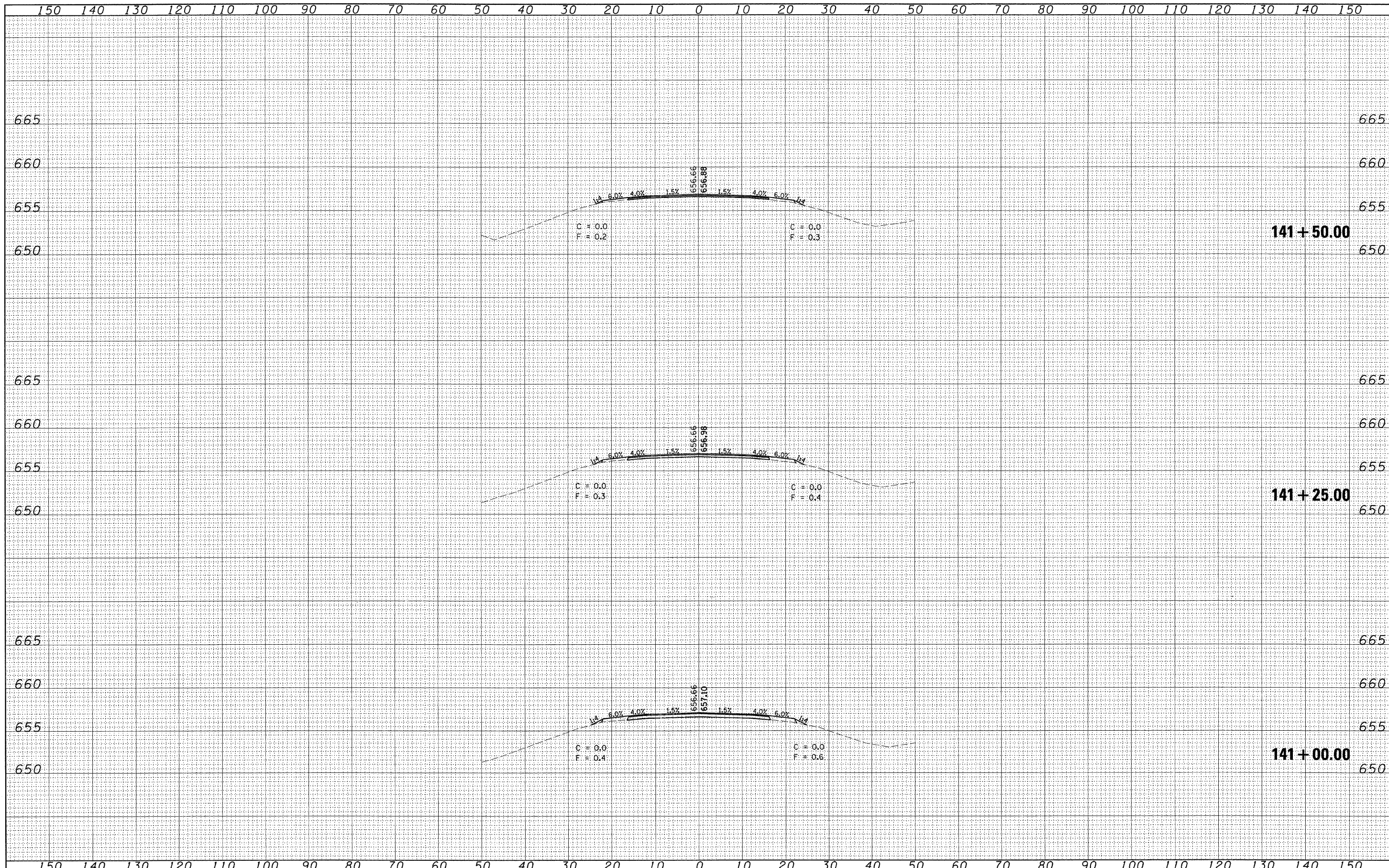
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PLOT DATE = 8/9/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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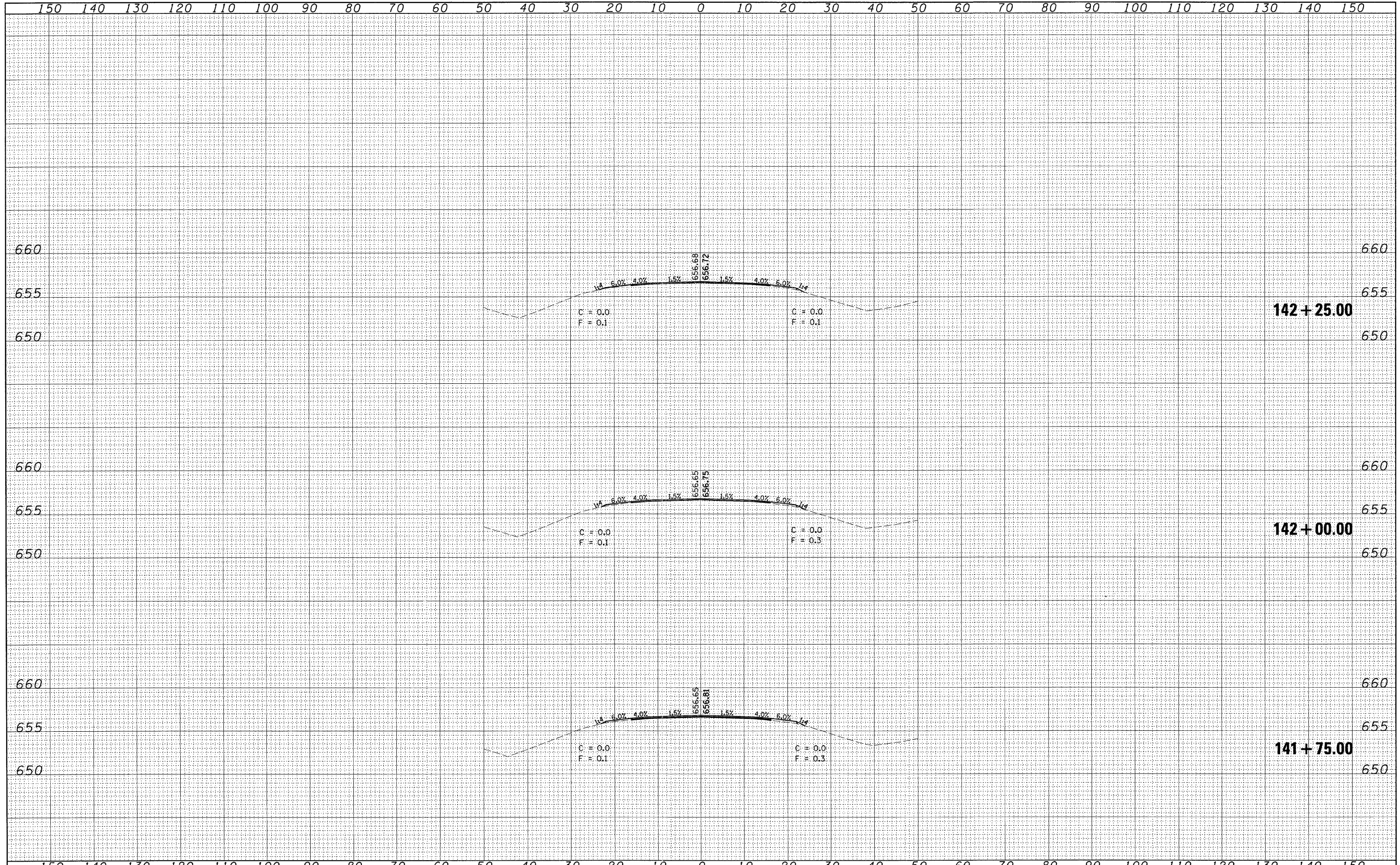
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PLOT SCALE = 18.0000' / in.	CHECKED -	REVISED -	SCALE: 10		SHEET NO. 7 OF 9 SHEETS	STA. 141+00.00 TO STA. 141+50.00	CONTRACT NO. 74280		ILLINOIS FED. AID PROJECT		
PLOT DATE = 8/9/2011	DATE -	REVISED -									

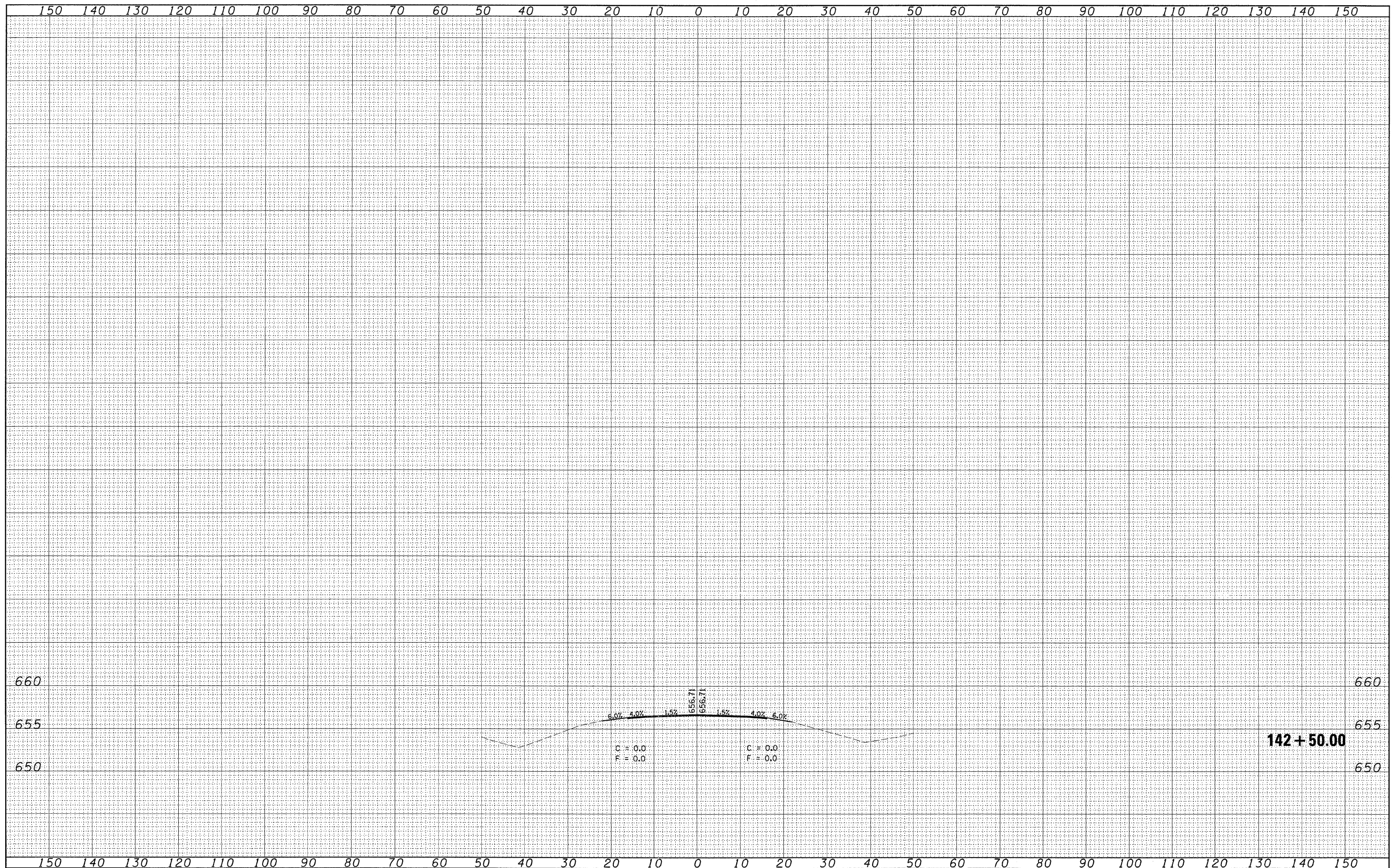
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FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY NO.	SURVEYED	DATE
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -	REVISED -		SCALE: 10	SHEET NO. 9 OF 9 SHEETS	STA. 142+50.00 TO STA. 142+50.00	CONTRACT NO. 74280		ILLINOIS FED. AID PROJECT			
PLOT DATE = 8/9/2011	DATE -	REVISED -	REVISED -										