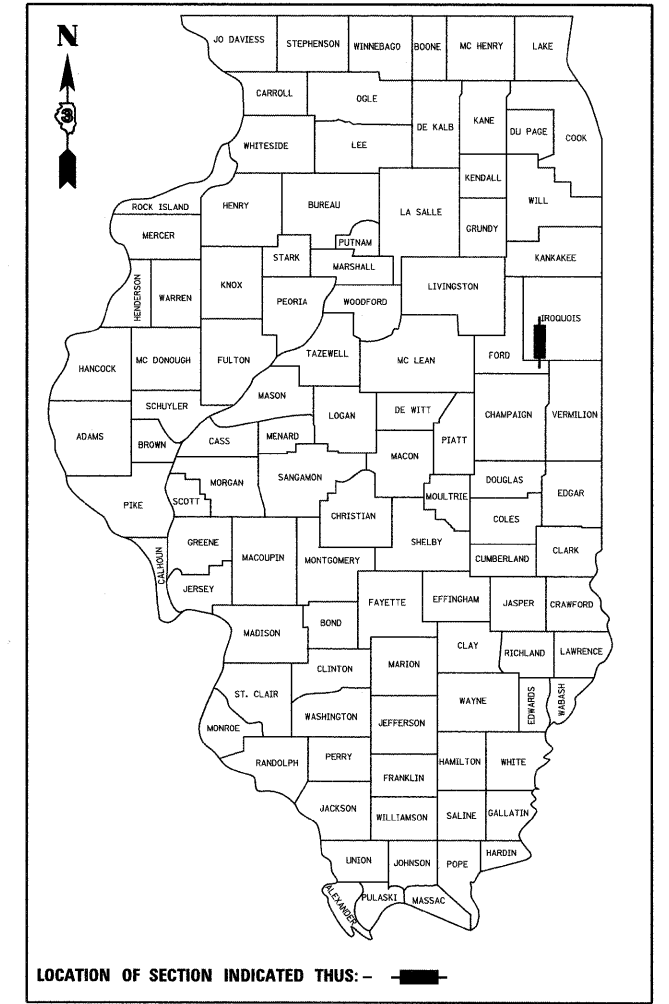


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 66948	

D-93-023-11



LOCATION OF SECTION INDICATED THUS: —

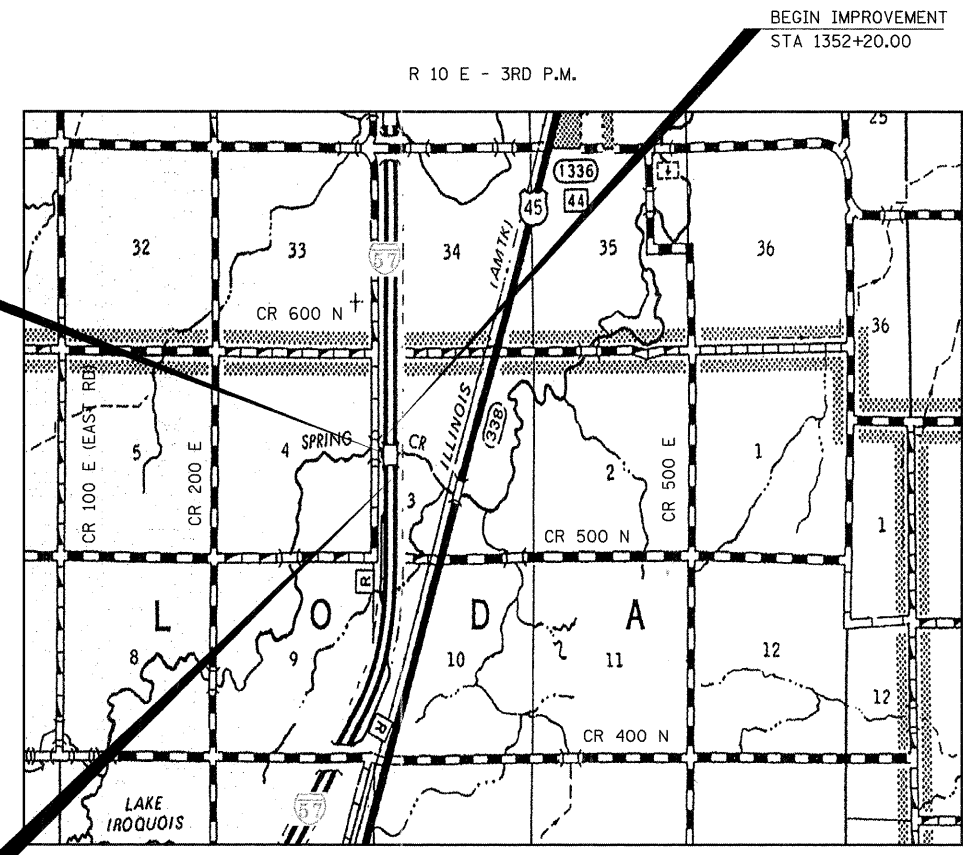
FUNCTIONAL CLASSIFICATION

INTERSTATE (RURAL)
F.A.I. ROUTE 57 (I-57)
2012 ADT = 17,800
P.V. = 72.0% S.U. = 6.0% M.U. = 22.0%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 57 (I-57)
SECTION (38-8) BR & BR-1
PROJECT: ACIM-057-6(191)269
BRIDGE REPLACEMENT
IROQUOIS COUNTY

C-93-028-11
I-57 OVER SPRING CREEK
2.5 MILES SOUTH OF THE BUCKLEY INTERCHANGE



STA 1357+52.00
 REMOVAL AND REPLACEMENT OF THE
 EXISTING STRUCTURES OVER SPRING CREEK
 EXISTING S.N. 038-0147 (SB) & 038-0148 (NB)
 PROPOSED S.N. 038-0222 (SB) 038-0223 (NB)
 LENGTH = 116 FT.

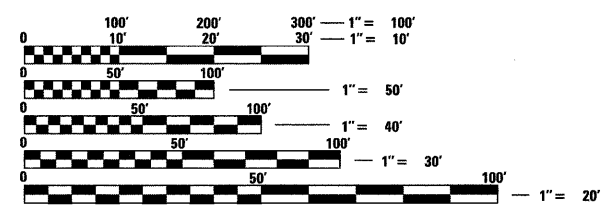
INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES & COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6-7 SCHEDULE OF QUANTITIES
- 8 TIE POINTS
- 9-11 PLAN AND PROFILE
- 12-15 MAINTENANCE OF TRAFFIC
- 16-56 BRIDGE PLANS
- 57-58 ROADWAY DETAILS
- 59-73 CROSS SECTIONS

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
- 421001-02 BAR REINFORCEMENT FOR CRC PAVEMENT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHLD. STRIPS / SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-03 NAME PLATE FOR BRIDGES
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 630201-06 PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631031-09 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-01 DELINEATORS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 642001-01 SHOULDER RUMBLE STRIPS
- 665001-02 WOVEN WIRE FENCE
- 701101-02 OFF-RD OPERATIONS, MULTILANE 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE MORE THAN 15' (4.5m) AWAY
- 701401-06 LANE CLOSURE, FREEWAY / EXPRESSWAY
- 701402-08 LANE CLOSURE, FREEWAY / EXPRESSWAY, WITH BARRIER
- 701406-06 LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY
- 701421-03 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55
- 701901-01 TRAFFIC CONTROL DEVICES
- 704001-06 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE
 ON THE FOLLOWING SHEETS _____



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

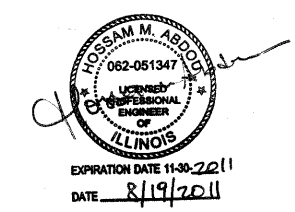
PROJECT ENGINEER: JOE KANNEL, P.E.
UNIT CHIEF: MICHELE LINDEMANN, P.E.

DISTRICT 3 NO. (815) 434-6131

CONTRACT NO. 66948

LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 1060 FT. = 0.201 MI.
NET LENGTH = 1060 FT. = 0.201 MI.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Aug 25 2011
Eric S. Therkildsen
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14 2011
Scott E. Stitt P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

October 14 2011
Christine M. Rosola
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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 engineers · scientists · planners
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450
 Job No. 3938.08/09

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

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

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

SHORT TERM PAVEMENT MARKINGS SHALL BE USED TO OUTLINE THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

COMMITMENTS

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SQ YD
POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	0.10	GAL / SQ YD
FOR ADDITIONAL HMA LIFTS "FOG COAT"	0.08	GAL / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Dave Brown
DISTRICT STUDIES & PLANS ENGINEER

DATE: 8-25-11

EXAMINED BY: Hubert K. Jung
DISTRICT CONSTRUCTION ENGINEER

Wayne Phillips
DISTRICT MATERIALS ENGINEER

Bruce A. Hoehen
DISTRICT OPERATIONS ENGINEER



FILE NAME = ...lfinal\0366948-sht-gennote.dgn	USER NAME = kholz	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & COMMITMENTS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - JDC	REVISED -			57	(38-8) BR & BR-1	IROQUOIS	73	2	
		PLOT SCALE = #SCALE#	CHECKED - JMS			REVISED -	CONTRACT NO. 66948				
		PLOT DATE = 8/19/2011	DATE - 08/19/2011			REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. 1352+20 TO STA. 1362+80			

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	RURAL TOTAL QUALITY	CONSTRUCTION TYPE CODE:		
				0004	0011	0011
				ROADWAY	SN 038-0222 (SB I-57)	SN 038-0223 (NB I-57)
20200100	EARTH EXCAVATION	CU YD	1190	1190		
20300100	CHANNEL EXCAVATION	CU YD	6439	6439		
20400800	FURNISHED EXCAVATION	CU YD	2320	2320		
* 25000300	SEEDING, CLASS 3	ACRE	1.4	1.4		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	123	123		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	123	123		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	123	123		
25100630	EROSION CONTROL BLANKET	SQ YD	7431	7431		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4264	4264		
28000305	TEMPORARY DITCH CHECKS	FOOT	54	54		
28000400	PERIMETER EROSION BARRIER	FOOT	2020	2020		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28100107	STONE RIPRAP, CLASS A4	SQ YD	2993	149	1,659	1,185
28200200	FILTER FABRIC	SQ YD	3134	290	1,659	1,185
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2243	2243		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2		
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	154	154		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	640	640		
40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	910	910		
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	386	386		
42001300	PROTECTIVE COAT	SQ YD	176	176		
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	176	176		
42100615	PAVEMENT REINFORCEMENT	SQ YD	176	176		
44000100	PAVEMENT REMOVAL	SQ YD	492	492		
44004250	PAVED SHOULDER REMOVAL	SQ YD	4262	4262		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	69	69		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1435	1435		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2		1	1

CODE NUMBER	ITEM	UNIT	RURAL TOTAL QUALITY	CONSTRUCTION TYPE CODE:		
				0004	0011	0011
				ROADWAY	SN 038-0222 (SB I-57)	SN 038-0223 (NB I-57)
50200100	STRUCTURE EXCAVATION	CU YD	472		236	236
50300100	FLOOR DRAINS	EACH	20		10	10
50300225	CONCRETE STRUCTURES	CU YD	305.4		152.7	152.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	629.8		314.9	314.9
50300260	BRIDGE DECK GROOVING	SQ YD	1488		744	744
50300280	CONCRETE ENCASEMENT	CU YD	19.6		9.8	9.8
50300300	PROTECTIVE COAT	SQ YD	1860		930	930
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		0.5	0.5
50500505	STUD SHEAR CONNECTORS	EACH	10320		5,160	5,160
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	188780		94,390	94,390
50800515	BAR SPLICERS	EACH	1656		828	828
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1347		664	683
51202305	DRIVING PILES	FOOT	1347		664	683
51203600	TEST PILE STEEL HP12X53	EACH	6		3	3
51204650	PILE SHOES	EACH	56		28	28
51500100	NAME PLATES	EACH	2		1	1
52100520	ANCHOR BOLTS, 1"	EACH	96		48	48
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	154		77	77
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	8		
60100905	PIPE DRAINS 4"	FOOT	32	32		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	800	800		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	1033	1033		
63500105	DELINEATORS	EACH	4	4		
64200105	SHOULDER RUMBLE STRIPS	FOOT	3456	3456		
66500105	WOVEN WIRE FENCE, 4'	FOOT	280	280		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8		

* SPECIALTY ITEM



SUMMARY OF QUANTITIES

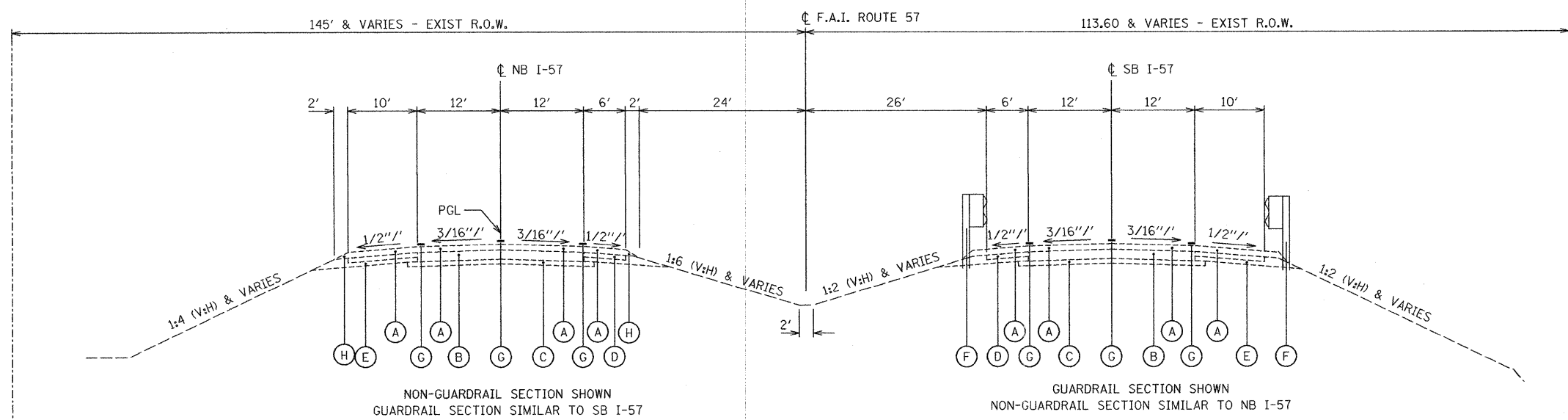
← 90% FED. / 10% STATE →

CODE NUMBER	ITEM	UNIT	RURAL TOTAL QUALITY	CONSTRUCTION TYPE CODE:		
				0004	0011	0011
				ROADWAY	SN 038-0222 (SB I-57)	SN 038-0223 (NB I-57)
67100100	MOBILIZATION	L SUM	1	1		
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1		
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	80	80		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	7	7		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	10600	10600		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	14120	14120		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	8828	8828		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2690	2690		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2690	2690		
78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	1766	1766		
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	14120	14120		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	76	76		
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8	8		
78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16		
78200530	BARRIER WALL MARKERS, TYPE C	EACH	48	48		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	84	84		
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	7	7		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	220		110	110
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1	
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1		1	
X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 3	EACH	1			1
X5020504	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 4	EACH	1			1
X6350120	DELINEATOR REMOVAL	EACH	4	4		
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	280	280		
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2		
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	14120	14120		
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	681	681		
Z0026407	TEMPORARY SHEET PILING	SQ FT	1239		609	630
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	270		135	135

* SPECIALTY ITEM

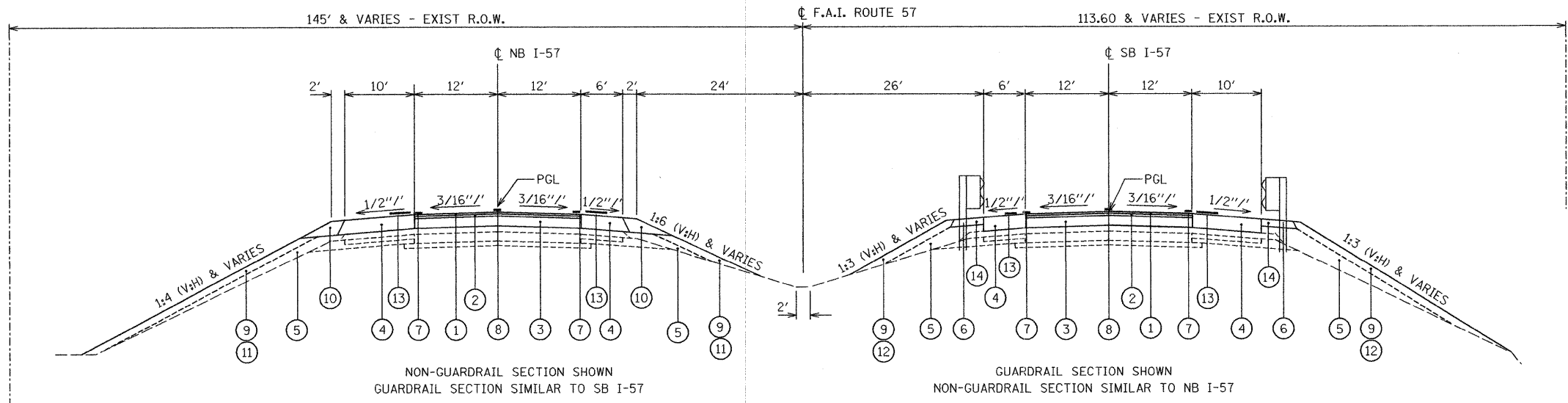


FILE NAME =	USER NAME = #USER#	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - LLR	REVISED -			57	(38-8) BR & BR-1	IROQUOIS	73	4	
	PLOT SCALE = #SCALE#	CHECKED - JMS	REVISED -			CONTRACT NO. 66948					
	PLOT DATE = #DATE#	DATE - 08/19/2011	REVISED -			SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. 1352+20 TO STA. 1362+80	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



EXISTING ROADWAY TYPICAL SECTION

STA 1352+20.00 TO STA 1357+00.00
 BRIDGE OMISSION STA 1357+00.00 TO STA 1358+04.00
 STA 1358+04.00 TO STA 1362+80.00



PROPOSED ROADWAY TYPICAL SECTION

• STA 1352+20.00 TO STA 1356+94.00
 BRIDGE OMISSION STA 1356+94.00 TO STA 1358+10.00
 • STA 1358+10.00 TO STA 1362+80.00

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90 (1 1/2")
- ② LEVELING BINDER (MACHINE METHOD), N90 (3/4")
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90 DEPTH VARIES TO MEET EXISTING GROUND. LIFTS NOT TO EXCEED 4".
- ④ HOT-MIX ASPHALT SHOULDERS (THICKNESS VARIES, 1 1/2" MIN)
- ⑤ FURNISHED EXCAVATION
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FT POSTS
- ⑦ EPOXY PAVEMENT MARKING - LINE 4" (SOLID WHITE OR YELLOW) & GROOVING FOR RECESSED PAVEMENT MARKING 5"
- ⑧ PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 6" (DASHED WHITE)
- ⑨ SEEDING, CLASS 3
- ⑩ AGGREGATE SHOULDERS, TYPE B
- ⑪ EROSION CONTROL BLANKET (1V:3H OR FLATTER)
- ⑫ HEAVY DUTY EROSION CONTROL BLANKET (STEEPER THAN 1V:3H)
- ⑬ SHOULDER RUMBLE STRIPS (PLACE AFTER STAGE II CONSTRUCTION)
- ⑭ HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- A EXIST HMA SURFACE, 5"
- B EXIST REINFORCED PCC PAVEMENT, 8"
- C STABILIZED SUBBASE, 4"
- D STABILIZED SHOULDER
- E EXIST AGGREGATE SHOULDER
- F EXIST STEEL PLATE BEAM GUARDRAIL
- G EXIST PAVEMENT MARKING
- H EXIST AGGREGATE SHOULDER, TYPE B

MIX DESIGN TABLE

	HMA BINDER & HMA SHLDR (BOTTOM LIFTS)	HMA SURFACE	HMA SHLDR (TOP 2 1/4")	HMA LEVEL BINDER
PG GRADE	PG64-22	SBS PG70-22	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N90	4.0% @ N90	4.0% @ N90	4.0% @ N90
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 9.5	IL 9.5
FRICTION AGGREGATE		MIXTURE D	MIXTURE C	
DENSITY TEST METHOD	CORES	CORES	CORES**	CORES

• STATIONING INCLUDES 30' OF CONC BRIDGE APPROACH. (SEE BRIDGE PLANS)

** MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE, THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.



FILE NAME =	USER NAME = kholt	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I. RTE. = 57	SECTION = (38-8) BR & BR-1	COUNTY = IROQUOIS	TOTAL SHEETS = 73	SHEET NO. = 5
...Y:\na\10366948-shht-tp.dgn	PLOT SCALE = #SCALE#	DRAWN - JDC	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 1352+20 TO STA. 1362+80	CONTRACT NO. 66948				
	PLOT DATE = 8/22/2011	CHECKED - JMS	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
		DATE - 08/19/2011	REVISED -									

SCHEDULE OF QUANTITIES

PAVEMENT AND SHOULDERS

LOCATION	STATION			LENGTH	MIXTURE FOR	HOT-MIX	POLYMERIZED	POLYMERIZED	LEVELING	PAVEMENT	PAVED	HOT-MIX	AGGREGATE	HOT-MIX	HOT-MIX	BRIDGE	PROTECTIVE	PAVEMENT
					CRACKS, JOINTS, & FLANGEWAYS	ASPHALT BINDER COURSE, IL- 19.0, N90	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	BINDER (MACHINE METHOD), N90			ASPHALT SURFACE REMOVAL - BUTT JOINT	SHOULDERS, TYPE B	ASPHALT SHOULDERS				
				FOOT	TON	TON	GAL	TON	TON	SQ YD	SQ YD	SQ YD	TON	SQ YD	TON	SQ YD	SQ YD	SQ YD
NORTHBOUND PAVEMENT	STA. 1352+20	TO	STA. 1356+64	444	0.25	253	323	97	39	123		160			172	44	44	44
	STA. 1358+40	TO	STA. 1362+80	440	0.25	250	320	96	38	123		160			102	44	44	44
SOUTHBOUND PAVEMENT	STA. 1352+20	TO	STA. 1356+64	444	0.25	205	323	97	39	123		160			150	44	44	44
	STA. 1358+40	TO	STA. 1362+80	440	0.25	202	320	96	38	123		160			89	44	44	44
NORTHBOUND SHLDRS	STA. 1352+20	TO	STA. 1356+64	444	0.25		260						34.5	347				
	STA. 1358+40	TO	STA. 1362+80	440	0.25		258											
SOUTHBOUND SHLDRS	STA. 1352+20	TO	STA. 1356+64	444	0.25		260						34.5	334				
	STA. 1358+40	TO	STA. 1362+80	440	0.25		179											
NORTHBOUND SHLDR (STAGING)	STA. 1349+60	TO	STA. 1367+25								2131						461	
SOUTHBOUND SHLDR (STAGING)	STA. 1347+75	TO	STA. 1365+40								2131						461	
TOTAL:					2	910	2243	386	154	492	4262	640	69	681	1435	176	176	176

PAVEMENT MARKINGS AND DELINEATORS

LOCATION	STATION			LENGTH	EPOXY	EPOXY	* GROOVING FOR	PREFORMED	RAISED	RAISED	RAISED	DELINEATOR	DELINEATOR
					PAVEMENT MARKING - LINE 4" WHITE	PAVEMENT MARKING - LINE 4" YELLOW	RECESSED PAVEMENT MARKING 5"	PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 6 INCH	REFLECTIVE PAVEMENT MARKER	REFLECTIVE PAVEMENT MARKER REMOVAL	REFLECTIVE PAVEMENT MARKER (BRIDGE)		
				FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
NORTHBOUND	STA. 1349+60	TO	STA. 1352+20	260	520		520	130	6	6			
	STA. 1352+20	TO	STA. 1363+80	1160	2320		2320	580	26	30	4	2	2
	STA. 1363+80	TO	STA. 1367+25	345	690		690	173	6	6			
SOUTHBOUND	STA. 1347+75	TO	STA. 1351+20	345	690		690	173	6	6			
	STA. 1351+20	TO	STA. 1362+80	1160	2320		2320	580	26	30	4	2	2
	STA. 1362+80	TO	STA. 1365+40	260	520		520	130	6	6			
NORTHBOUND	STA. 1349+60	TO	STA. 1352+20	260		520	520						
	STA. 1352+20	TO	STA. 1363+80	1160		2320	2320						
	STA. 1363+80	TO	STA. 1367+25	345		690	690						
SOUTHBOUND	STA. 1347+75	TO	STA. 1351+20	345		690	690						
	STA. 1351+20	TO	STA. 1362+80	1160		2320	2320						
	STA. 1362+80	TO	STA. 1365+40	260		520	520						
TOTAL:					7060	7060	14120	1766	76	84	8	4	4

*GROOVING TO BE USED FOR 4" EDGE LINE ONLY

PERMANENT DRAINAGE AND EROSION CONTROL

LOCATION	SEEDING CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	STONE RIPRAP, CLASS A4	FILTER FABRIC	INLET & PIPE PROTECTION	CONCRETE HEADWALL FOR PIPE DRAINS
	ACRE	POUND	POUND	POUND	SQ YD	SQ YD	SQ YD	SQ YD	EA	EA
NB	0.6	55	55	55	4020	1827	74.5	145	1	4
SB	0.8	68	68	68	3411	2437	74.5	145	1	4
TOTAL:	1.4	123	123	123	7431	4264	149	290	2	8

WORK ZONE TRAFFIC CONTROL

LOCATION	TEMP CONC. BARRIER	RELOCATE TEMP. CONC. BARRIER	IMPACT ATTEN., TEMP.	IMPACT ATTEN., RELOC.	BARRIER WALL MARKERS
	FOOT	FOOT	EACH	EACH	EACH
NORTHBOUND	1345	1345	1	1	24
SOUTHBOUND	1345	1345	1	1	24
TOTAL:	2690	2690	2	2	48


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 Chicago, Illinois 60601
 312-565-0450
 Job No. 3938.08

FILE NAME =	USER NAME = kholt	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...f:\m1\0366948-aht-Schedule.dgn		DRAWN - LLR	REVISED -			57	(38-8) BR & BR-1	IROQUOIS	73	6	
		CHECKED - JMS	REVISED -			SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. 1352+20 TO STA. 1362+80	
		DATE - 08/19/2011	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 66948	

SCHEDULE OF QUANTITIES

GUARDRAIL							
LOCATION		GUARDRAIL REMOVAL	SPBGR TYPE A 6 FT POSTS	TBT TYPE 6	TBT TYPE 1, SPECIAL (FLARED)	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER-DIRECT APPLIED
		FOOT	FOOT	EACH	EACH	EACH	EACH
RIGHT SIDE							
STA. 1358+05	TO STA. 1360+07	202					
STA. 1354+61	TO STA. 1357+00	239					
STA. 1354+61	TO STA. 1356+36		175	1			
STA. 1358+68	TO STA. 1360+43		175	1			
STA. 1354+11	TO STA. 1356+79				1	4	1
STA. 1358+25	TO STA. 1360+93				1	4	1
LEFT SIDE							
STA. 1358+05	TO STA. 1361+96	392					
STA. 1355+00	TO STA. 1357+00	200					
STA. 1354+11	TO STA. 1356+36		225	1			
STA. 1358+68	TO STA. 1360+93		225	1			
STA. 1353+61	TO STA. 1356+79				1	4	1
STA. 1358+25	TO STA. 1361+43				1	4	1
TOTAL:		1033	800	4	4	16	4

TEMPORARY EROSION CONTROL						
TEMPORARY DITCH CHECKS			PERIMETER EROSION BARRIER			
STATION	OFFSET	LENGTH (FT)	STATION	STATION	RT/LT	FOOT
STA. 1352+93	1.0 LT	6	STA. 1352+20	TO STA. 1357+00	RT	480
STA. 1353+93	1.0 LT	6	STA. 1357+50	TO STA. 1362+80	LT	530
STA. 1354+93	1.6 LT	6	STA. 1352+20	TO STA. 1357+00	RT	480
STA. 1355+93	3.4 LT	6	STA. 1357+50	TO STA. 1362+80	LT	530
STA. 1358+94	1.4 LT	6				
STA. 1359+92	1.3 LT	6				
STA. 1360+92	1.3 LT	5				
STA. 1361+92	1.3 LT	6				
STA. 1362+92	1.3 LT	7				
TOTAL:		54	TOTAL:			2020

EARTHWORK						
LOCATION		EARTH EXCAVATION (2)	EARTH EX. ADJ. FOR SHRINKAGE (1)	FURNISHED EXCAVATION (3)	EARTHWORK BAL. WASTE (+) OR SHORTAGE (-)	
		CU YD	CU YD	CU YD	CU YD	
STA. 1352+20	TO STA. 1353+00	140	105	269	(164)	
STA. 1353+00	TO STA. 1354+00	106	80	189	(109)	
STA. 1354+00	TO STA. 1355+00	119	89	229	(140)	
STA. 1355+00	TO STA. 1356+00	135	101	263	(162)	
STA. 1356+00	TO STA. 1356+64	190	143	580	(437)	
STA. 1358+40	TO STA. 1359+00	157	118	257	(139)	
STA. 1359+00	TO STA. 1360+00	163	122	257	(135)	
STA. 1360+00	TO STA. 1361+00	60	45	91	(46)	
STA. 1361+00	TO STA. 1362+00	38	29	62	(33)	
STA. 1362+00	TO STA. 1362+80	82	62	123	(61)	
TOTAL:		1190	894	2320	(1426)	

- (1) QUANTITY OF EARTH EXCAVATION ADJUSTED FOR A SHRINKAGE FACTOR OF 25% .
- (2) ACCOUNTS FOR TOP 6 INCHES OF UNSUITABLE SOIL INCLUDED IN EARTH EXCAVATION.
- (3) INCLUDES 6 INCHES OF UNSUITABLE SOIL REMOVAL.

TEMPORARY PAVEMENT MARKINGS							
LOCATION	STATION		LENGTH	TEMPORARY PAVEMENT MARKING -LINE WHITE 4"	TEMPORARY PAVEMENT MARKING -LINE YELLOW 4"	SHORT TERM PAVEMENT MARKING	WORK ZONE, PAVEMENT MARKING REMOVAL
				FOOT	FOOT	FOOT	SQ FT
NORTHBOUND	STA. 1349+60	TO STA. 1352+20	260	260	260		173
	STA. 1352+20	TO STA. 1363+80	1160	1160	1160	5300	3541
SOUTHBOUND	STA. 1363+80	TO STA. 1367+25	345	345	345		230
	STA. 1347+75	TO STA. 1351+20	345	345	345		230
NORTHBOUND	STA. 1351+20	TO STA. 1362+80	1160	1160	1160	5300	3541
	STA. 1362+80	TO STA. 1365+40	260	260	260		173
SOUTHBOUND	STA. 1349+60	TO STA. 1352+20	260	260	260		173
	STA. 1352+20	TO STA. 1363+80	1160	1160	1160		297
SOUTHBOUND	STA. 1363+80	TO STA. 1367+25	345	345	345		0
	STA. 1347+75	TO STA. 1351+20	345	345	345		297
SOUTHBOUND	STA. 1351+20	TO STA. 1362+80	1160	1160	1160		173
	STA. 1362+80	TO STA. 1365+40	260	260	260		0
TOTAL:				7060	7060	10600	8828

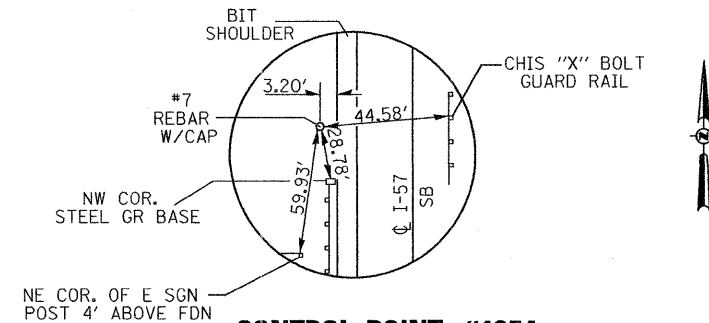


CONTROL POINT #1341

CONCRETE MONUMENT
 LOCATED ON 1ST DITCH CHECK NORTH OF BRIDGES.
 STA 1357+52.48
 "X" ON DISC IS 0.09' RT. OF TRUE C.
 N 1,423,050.166
 E 1,060,065.927
 NO TIE INCLUDED
 ELEV. 705.192

CONTROL POINT #1377

CONCRETE MONUMENT
 LOCATED ON 1ST DITCH CHECK SOUTH OF BRIDGES.
 STA 1357+52.48
 "X" ON PLUG IS 0.12' LT. OF TRUE C.
 N 1,419,381.184
 E 1,060,123.597
 NO TIE INCLUDED
 ELEV. 708.577



CONTROL POINT #1354

#7 REBAR WITH CAP

STA 1354+71.80, 69.79' RT
 ELEV 702.786
 N 1,421,692.487
 E 1,060,017.482

CONTROL POINTS AND BENCHMARKS WILL BE CONFIRMED BY THE CONTRACTOR PRIOR TO WORK.

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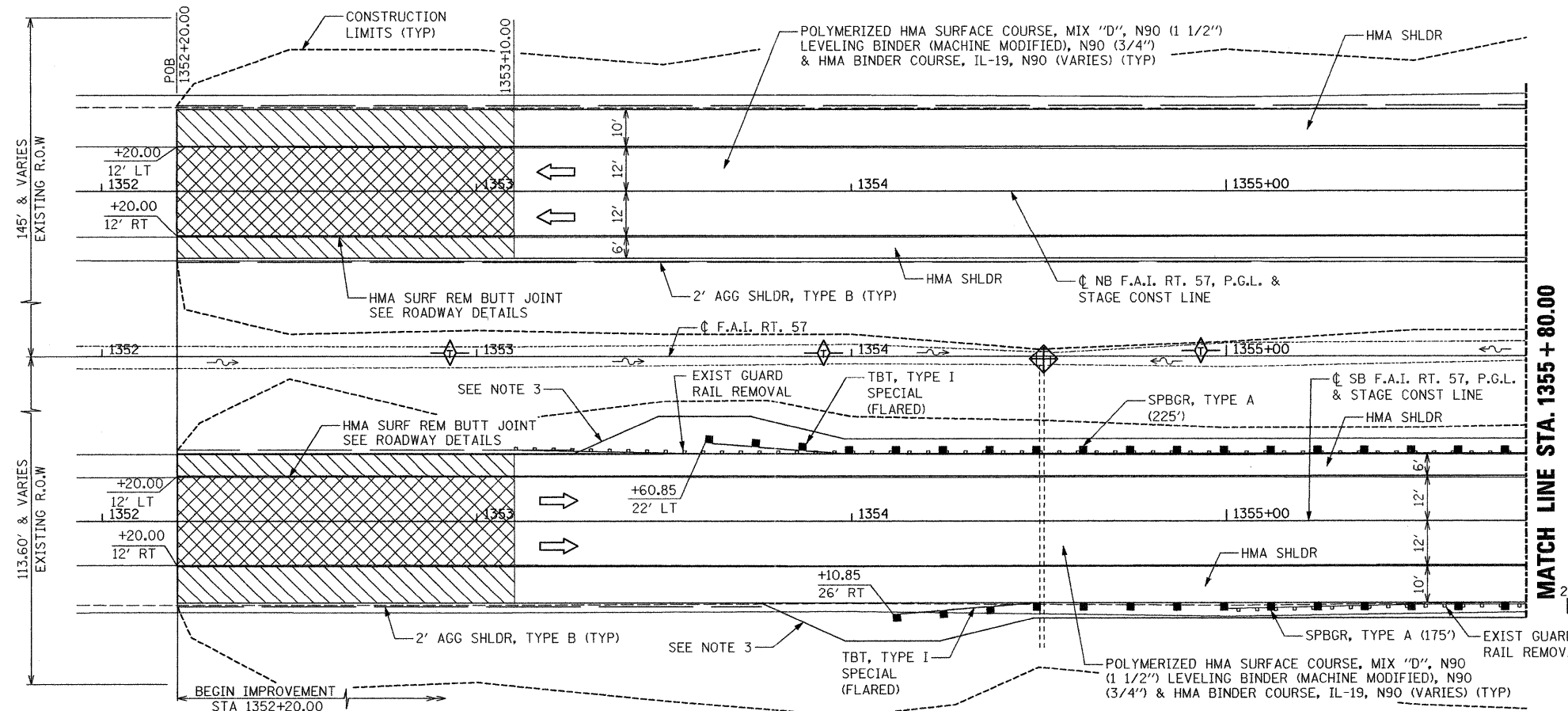
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		DRAWN - JDC	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 1352+20 TO STA. 1362+80	57	(38-8) BR & BR-1	IROQUOIS	73	8
		CHECKED - JMS	REVISED -					CONTRACT NO. 66948				
		DATE - 08/19/2011	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

BENCHMARK #10

CUT "□" TOP OF NORTHEAST WINGWALL OF NB I-57 BRIDGE.
 STA 1357+01.48, 67.86' LT
 ELEV 703.901

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	

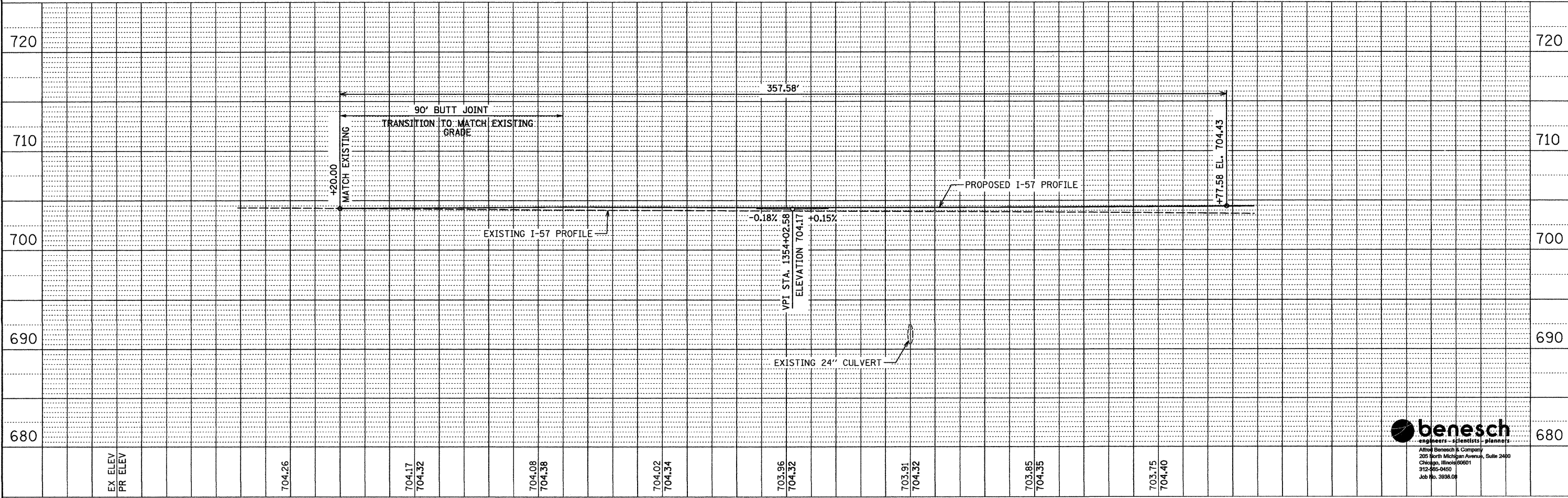
- NOTES:
1. PLACE EROSION CONTROL FENCE AROUND THE PERIMETER OF WORK OUTSIDE OF THE CONSTRUCTION LIMITS
 2. SEE MOT PLANS FOR LIMITS OF HMA SHOULDER REMOVAL DURING STAGE 1A
 3. SEE HWY. STD. 630301 FOR SHOULDER WIDENING DETAILS AND 630201 FOR RESURFACING DETAIL FOR LIMITS OF HMA STABILIZATION



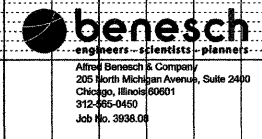
LEGEND

- PAVEMENT REMOVAL AND REPLACEMENT (SEE NOTE 2)
- PAVED SHOULDER REMOVAL
- HMA BUTT JOINT
- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PROPOSED DITCH FLOW LINE
- EXISTING DITCH FLOW LINE
- DIRECTION OF TRAFFIC
- CONSTRUCTION LIMITS
- EXISTING INLET

FILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	



FILE NAME =	USER NAME = kholz	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\fina1\0366948-ah-pplan@1.dgn	PLOT SCALE = #SCALE#	DRAWN - PRT	REVISED -			57	(38-8) BR & BR-1	IROQUOIS	73	9	
PLOT DATE = 8/22/2011	DATE - 08/19/2011	CHECKED - JMS	REVISED -			CONTRACT NO. 66948					
		DATE - 08/19/2011	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



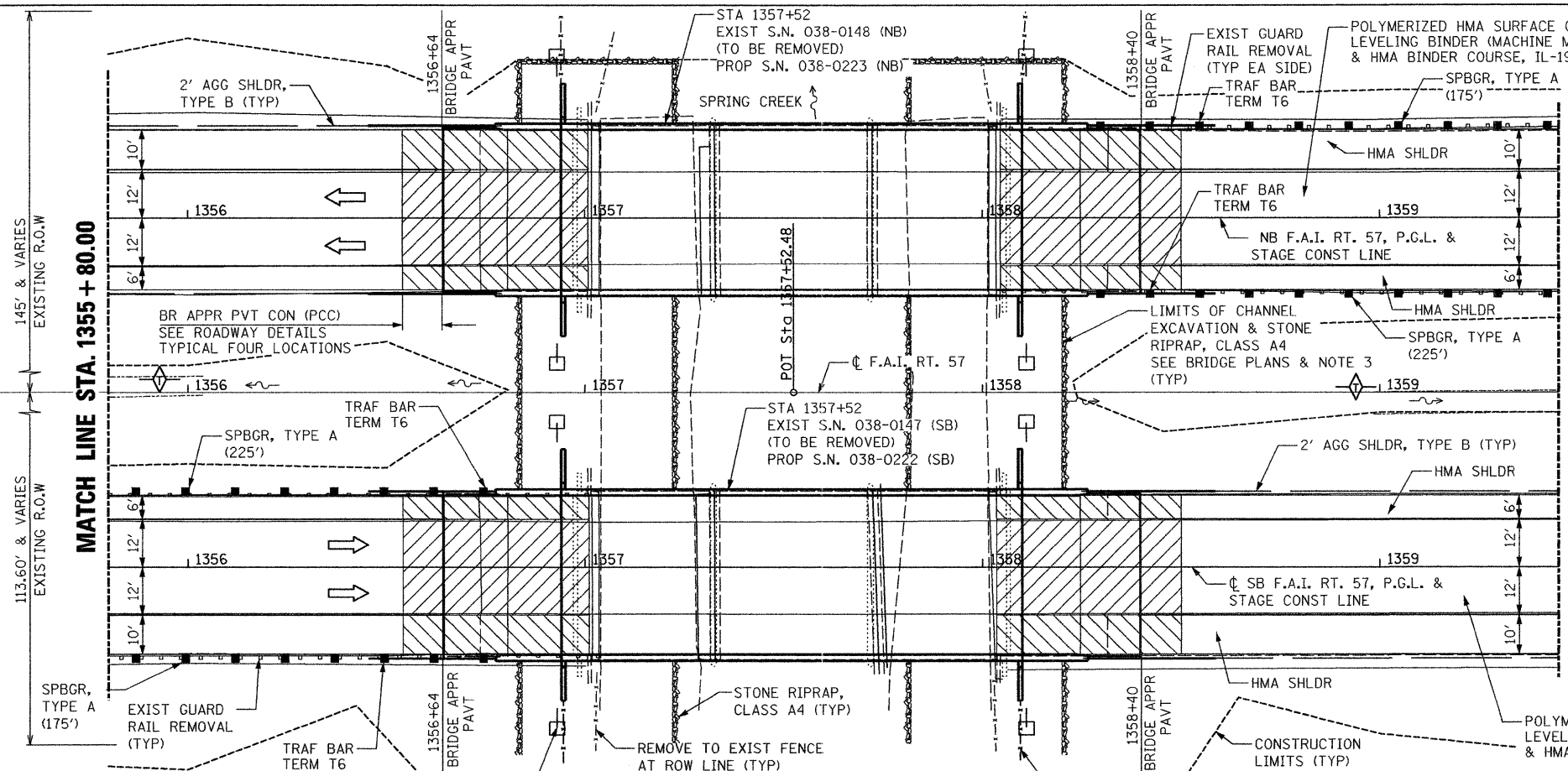
BENCHMARK #10

CUT "□" TOP OF NORTHEAST WINGWALL OF NB I-57 BRIDGE.

STA 1357+01.48, 67.86' LT
ELEV 703.901

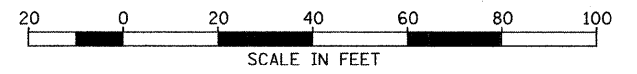
NOTES:

- PLACE EROSION CONTROL FENCE AROUND THE PERIMETER OF WORK OUTSIDE OF THE CONSTRUCTION LIMITS
- PAVEMENT REMOVAL:
STA 1356+54 TO STA 1357+00
STA 1358+04 TO STA 1358+50
PAVEMENT REPLACEMENT:
STA 1356+54 TO STA 1356+64
STA 1358+40 TO STA 1358+50
EXISTING BRIDGE OMISSION:
STA 1357+00 TO STA 1358+04
- CHANNEL EXCAVATION INCLUDES SILT AND DEBRIS ACCUMULATED ABOVE THE EXISTING CHANNEL LIMITS
- SEE MOT PLANS FOR LIMITS OF HMA SHOULDER REMOVAL DURING STAGE 1A
- SEE ROADWAY DETAILS SHEET FOR REPAIR OF EXISTING DIKES (4 LOC.)



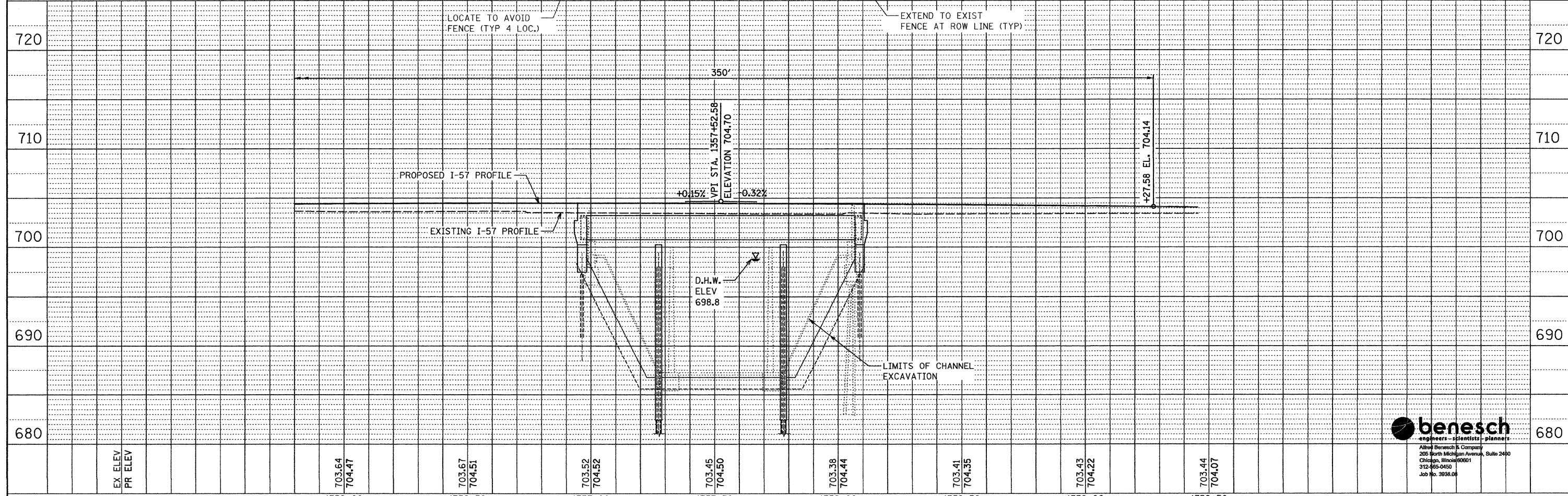
LEGEND

- PAVEMENT REMOVAL AND REPLACEMENT (SEE NOTE 2)
- PAVED SHOULDER REMOVAL
- HMA BUTT JOINT
- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PROPOSED DITCH FLOW LINE
- EXISTING DITCH FLOW LINE
- DIRECTION OF TRAFFIC
- CONSTRUCTION LIMITS
- EXISTING INLET
- PROP DRAIN PIPE 4" W/ CONC HDWL SEE SECTION THRU INTEGRAL ABUTMENT ON BRIDGE SHEET S2 OF S41
- EXIST WOVEN WIRE FENCE
- PROP WOVEN WIRE FENCE, 4'

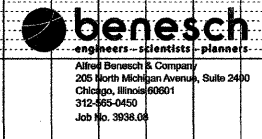


PLAN	DATE
NO.	
BY	
CHECKED	
DATE	

FILE	DATE
NO.	
BY	
CHECKED	
DATE	



FILE NAME =	USER NAME = kholt	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 10
...:\final\0366948-ah-t-plan@2.dgn	PLOT SCALE = #SCALE#	DRAWN - PRT	REVISED -			CONTRACT NO. 66948				
	PLOT DATE = 8/22/2011	CHECKED - JMS	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		DATE - 08/19/2011	REVISED -			SCALE: 1"=20'H/5'V SHEET NO. 2 OF 3 SHEETS STA. 1355+80 TO STA. 1359+45				



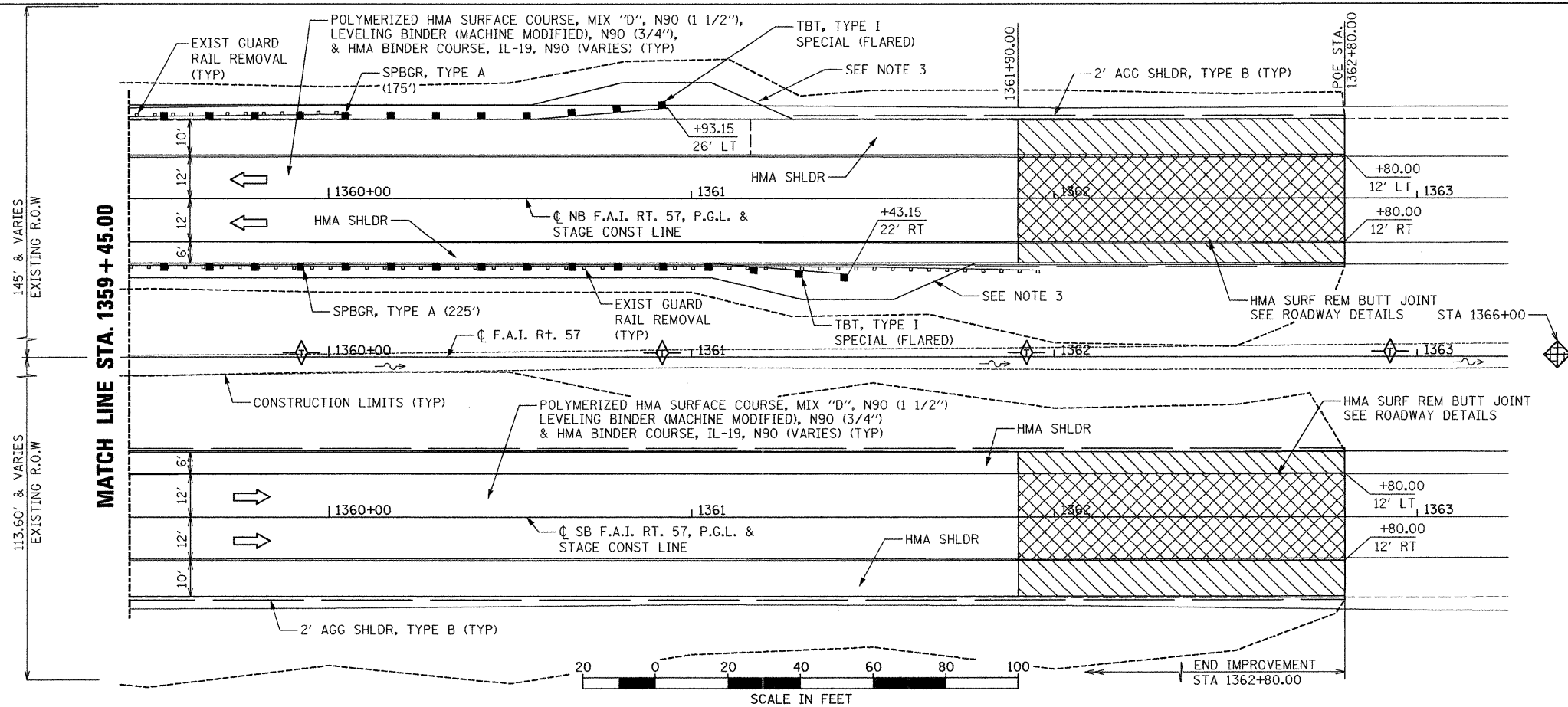
BENCHMARK #U201

CONCRETE MONUMENT
 NGS BENCHMARK
 STA 1387+87.04
 129.08' LT
 ELEV 718.473

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAY CHECKED		
	CADD FILE NAME		
	NO.		

NOTES:

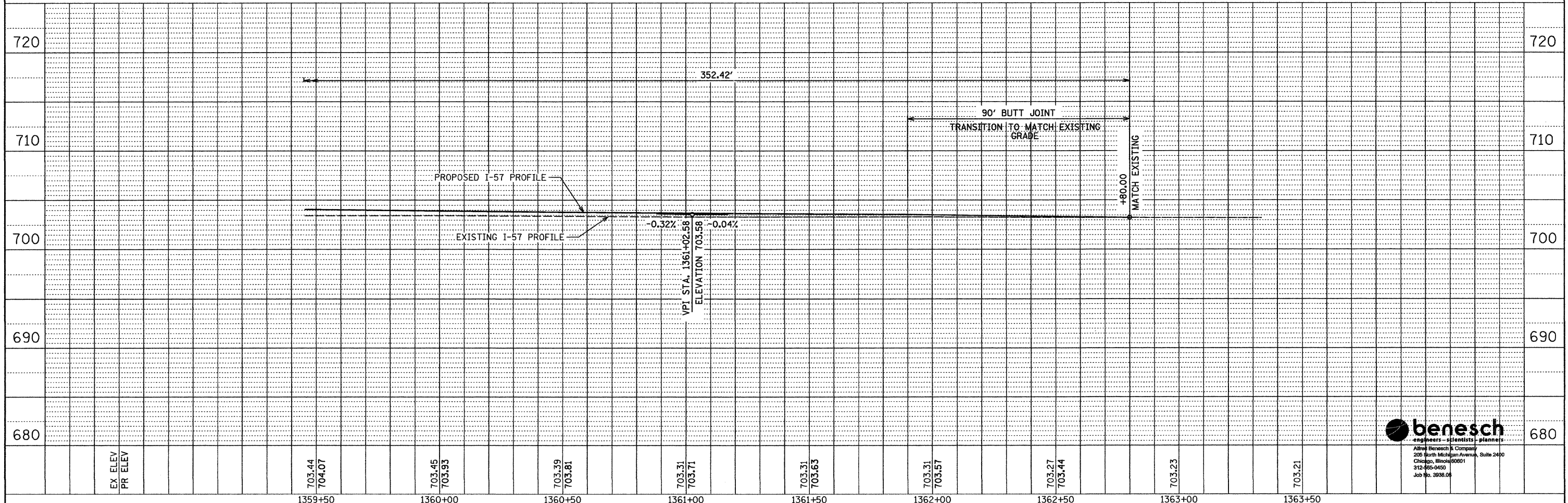
1. PLACE EROSION CONTROL FENCE AROUND THE PERIMETER OF WORK OUTSIDE OF THE CONSTRUCTION LIMITS
2. SEE MOT PLANS FOR LIMITS OF HMA SHOULDER REMOVAL DURING STAGE 1A
3. SEE HWY. STD. 630301 FOR SHOULDER WIDENING DETAILS AND 630201 FOR RESURFACING DETAIL FOR LIMITS OF HMA STABILIZATION



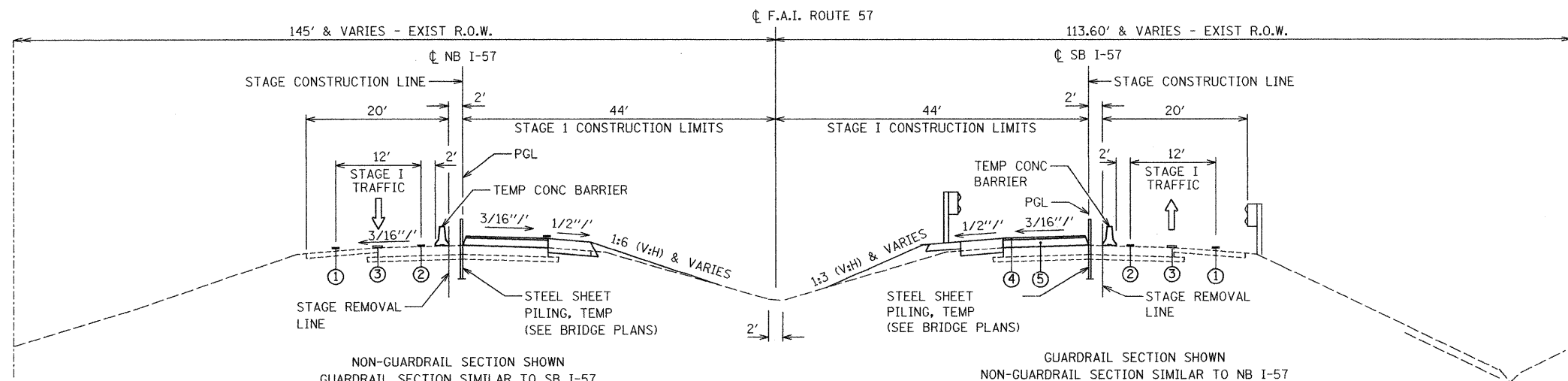
LEGEND

- PAVEMENT REMOVAL AND REPLACEMENT (SEE NOTE 2)
- PAVED SHOULDER REMOVAL
- HMA BUTT JOINT
- INLET & PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PROPOSED DITCH FLOW LINE
- EXISTING DITCH FLOW LINE
- DIRECTION OF TRAFFIC
- CONSTRUCTION LIMITS
- EXISTING INLET

FILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
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	STRUCTURE NOTATION CHECKED		
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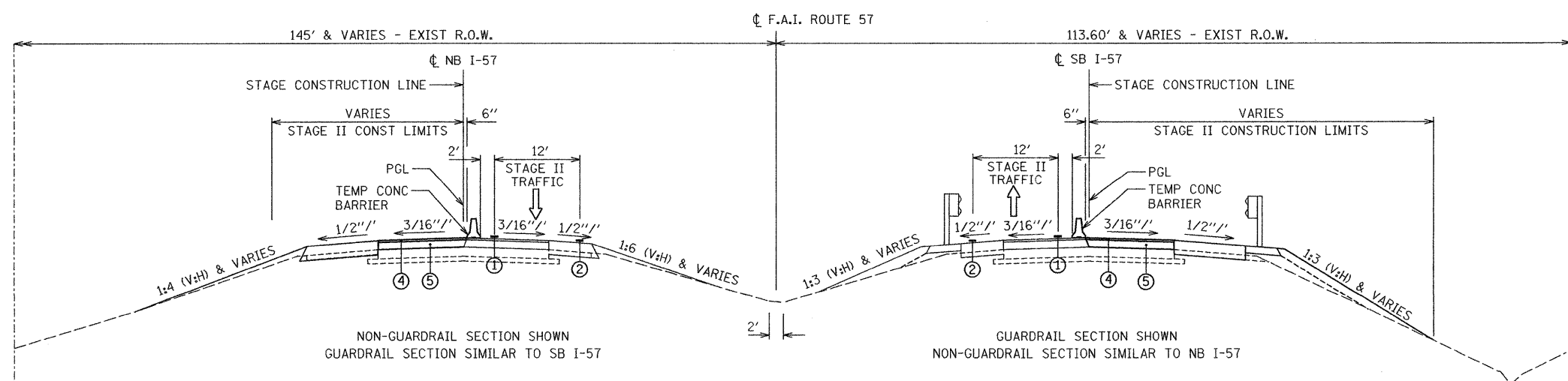


FILE NAME =	USER NAME = kholt	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\fina1\0366948-shr-pplan#3.dgn		DRAWN - PRT	REVISED -			57	(38-8) BR & BR-1	IROQUOIS	73	11	
PLOT SCALE = #SCALE#		CHECKED - JMS	REVISED -			SCALE: 1"=20'H/5'V SHEET NO. 3 OF 3 SHEETS STA. 1359+45 TO STA. 1362+80					
PLOT DATE = 8/22/2011		DATE - 08/19/2011	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 66948					



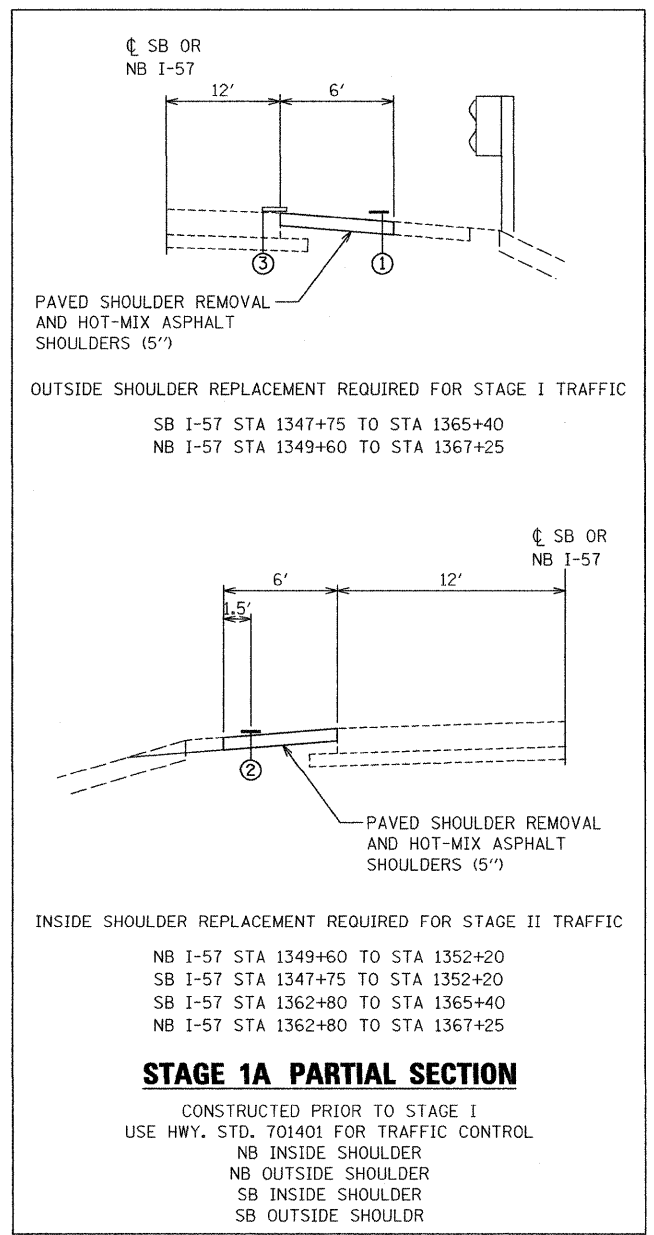
STAGE I TYPICAL SECTION

LOOKING SOUTH
 STA 1352+20.00 TO STA 1356+94.00
 BRIDGE OMISSION STA 1356+94.00 TO STA 1358+10.00
 STA 1358+10.00 TO STA 1362+80.00



STAGE II TYPICAL SECTION

LOOKING SOUTH
 STA 1352+20.00 TO STA 1356+94.00
 BRIDGE OMISSION STA 1356+94.00 TO STA 1358+10.00
 STA 1358+10.00 TO STA 1362+80.00



NOTES APPLYING TO ALL STAGES:

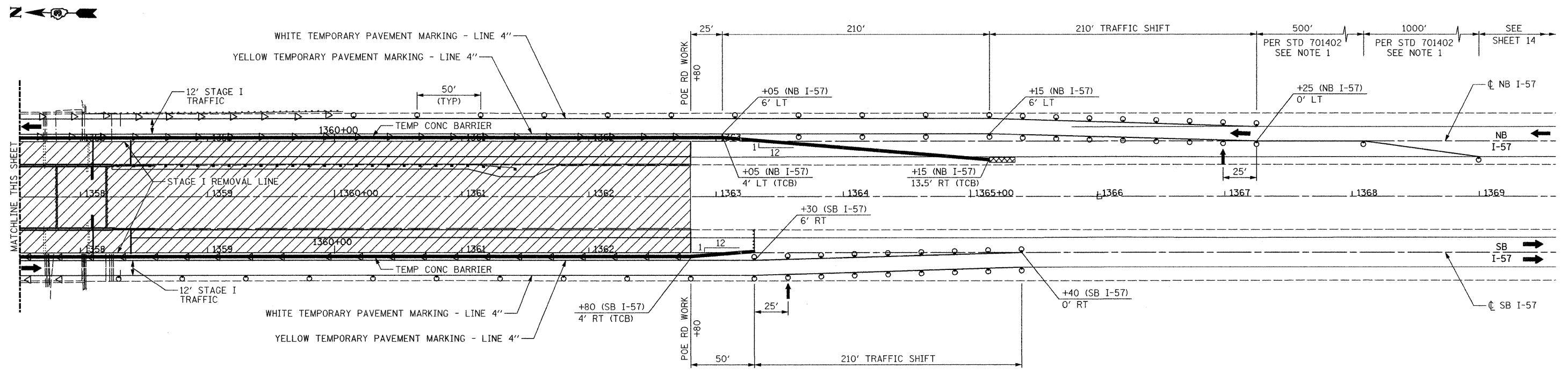
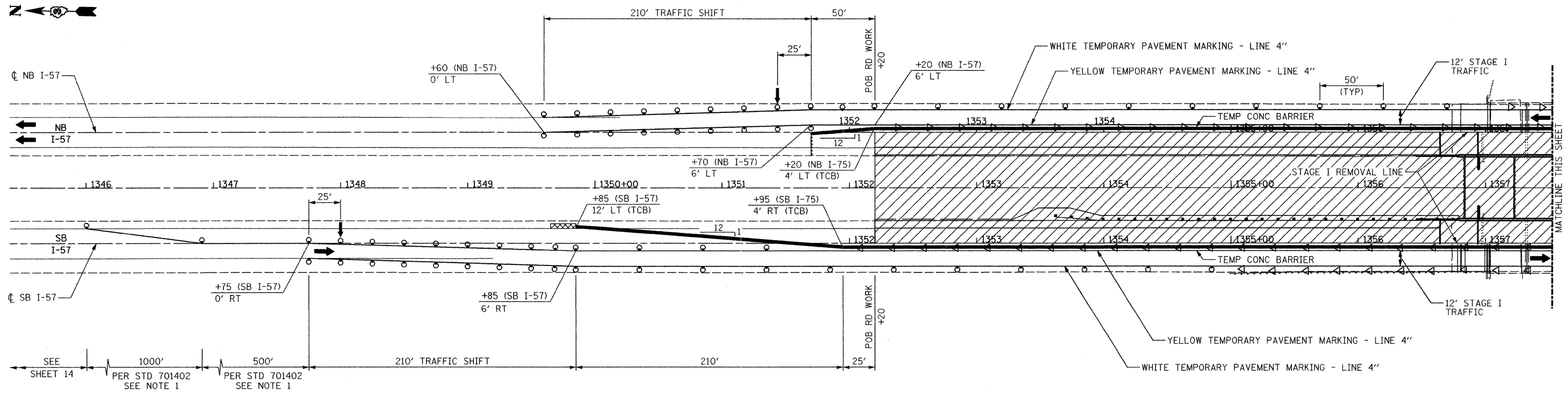
- ① WHITE TEMPORARY PAVEMENT MARKING LINE, 4"
- ② YELLOW TEMPORARY PAVEMENT MARKING LINE, 4"
- ③ EXIST WHITE LINE (REMOVE)
- ④ LEVELING BINDER (MACHINE METHOD), N90 (3/4")
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90
 DEPTH VARIES TO MEET EXISTING GROUND. LIFTS NOT TO EXCEED 4".

REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE TRAFFIC LANES AND SHIFTS.
 PLACE POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE AFTER THE COMPLETION OF STAGE II CONSTRUCTION. USE HWY. STD. 701401 FOR TRAFFIC CONTROL

ALL WORK USING HWY. STD. 701401 FOR STAGE 1A AND FOR TOP COURSE WORK IS INCLUDED WITH PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701401" (70100800).



FILE NAME = ...:\f\in\ND366948-staging-tyr.dgn	USER NAME = kholt	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC			F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 12
PLOT SCALE = #SCALE#	CHECKED - JMS	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	STA. 1352+20 TO STA. 1362+80	CONTRACT NO. 66948				
PLOT DATE = 8/22/2011	DATE - 08/19/2011	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



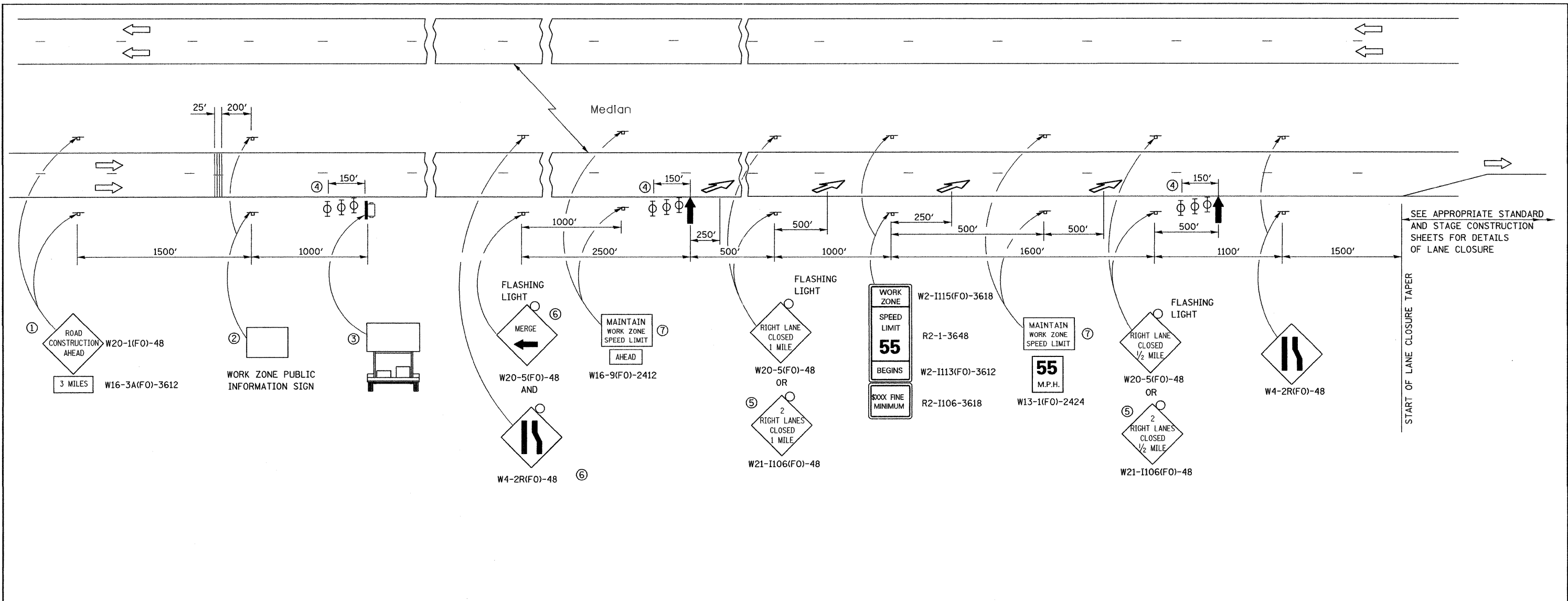
LEGEND	
	WORK AREA
	TEMPORARY CONCRETE BARRIER (TCB)
	TRAFFIC DEVICES SHALL BE TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	SIGN
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
	ARROW BOARD
	CRYSTAL, MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER PER STANDARD 701402
	BARRICADE, TYPE III

NOTES

- SEE HIGHWAY STANDARD 701402 FOR DETAILS OF 1000' LANE CLOSURE AND 500' TANGENT AND ADDITIONAL TRAFFIC CONTROL INFORMATION.
- TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS WILL BE PAID FOR SEPARATELY.
- VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER.
- TRAFFIC DEVICES SHALL BE SPACED AT 25' CTS ALONG TRAFFIC SHIFTS AND 50' CTS ALONG TANGENT SECTIONS.
- OFFSETS TO TEMPORARY CONCRETE BARRIER (TCB) ARE TO THE TOE OF THE TCB NEAREST TO TEMPORARY TRAFFIC.

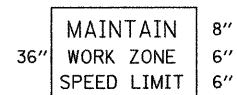
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 312-585-0450
 Job No. 3938.08

FILE NAME = ...ND366948-ah1-Stage-1 48scale.dgn	USER NAME = khol1t	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - STAGE I	F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 13	
PLOT SCALE = #SCALE#	DRAWN - PRT	CHECKED - JMS	REVISED -			SCALE: 1"=40'	SHEET NO. 2 OF 4 SHEETS	STA. 1352+20 TO STA. 1362+80	CONTRACT NO. 66948		
PLOT DATE = 8/22/2011	DATE - 08/19/2011					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.

⑦ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.
48"



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▨ TEMPORARY THERMOPLASTIC RUMBLE STRIPS

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

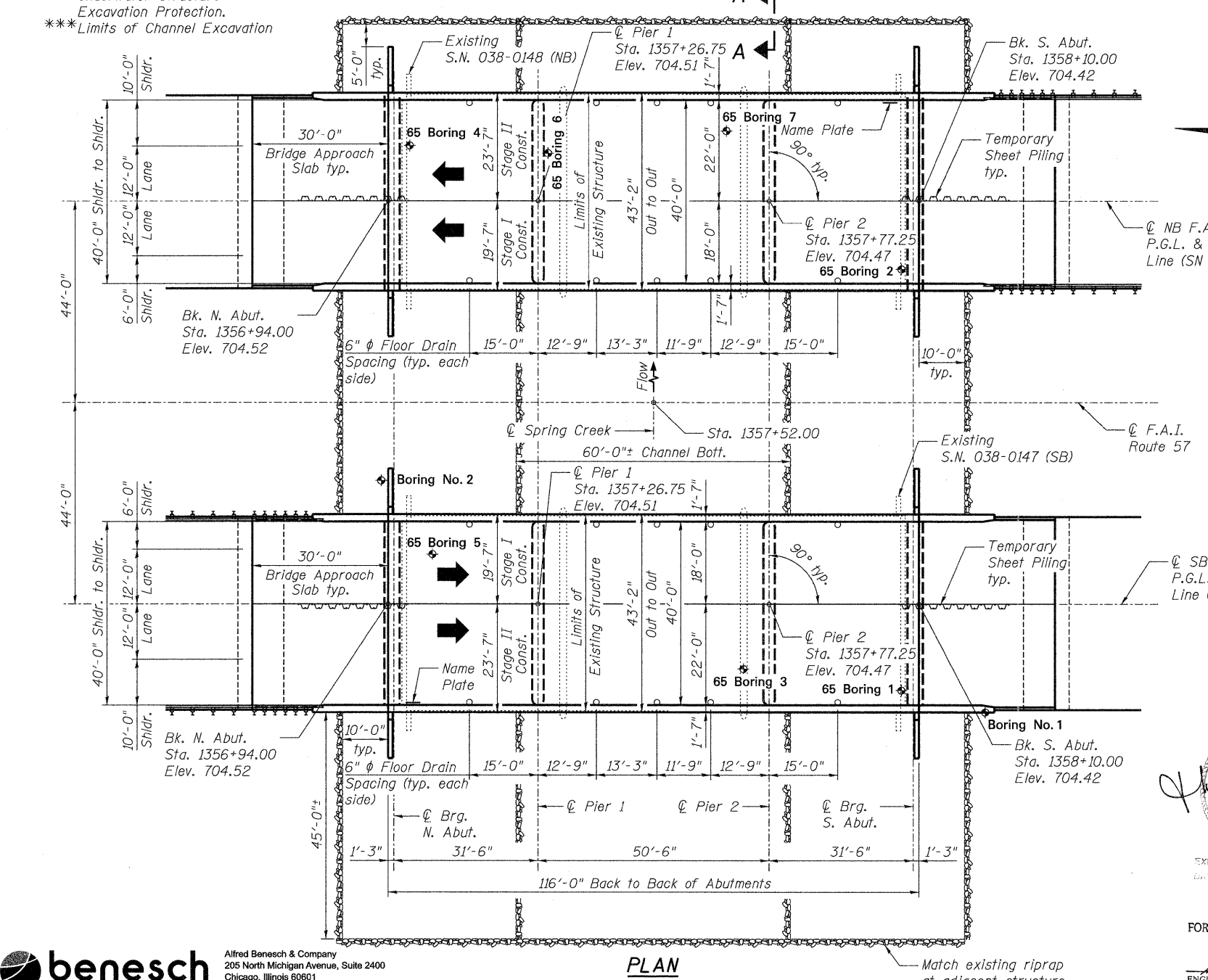
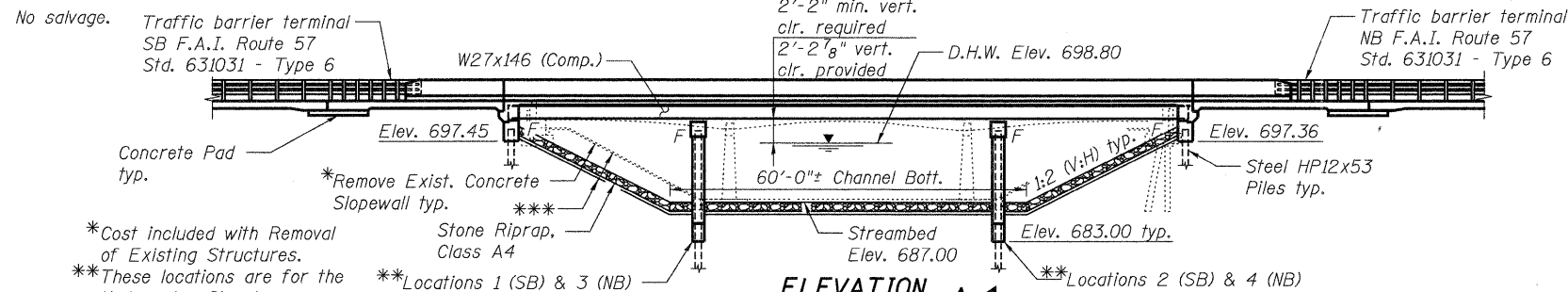
ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SHOWN.

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FILE NAME = ...ND366948-shr-Stage-Alt.dgn	USER NAME = khol	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD 701400 (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - PRT	REVISED -			57	(38-B) BR & BR-1	IROQUOIS	73	15	
		CHECKED - JMS	REVISED -			SCALE: 1"=40'		SHEET NO. 4 OF 4 SHEETS		STA. 1352+20 TO STA. 1362+80	
		DATE - 08/19/2011	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 66948	

Bench Mark: BM#10 Cut "□" in top of northeast wingwall of Existing Structure No. 038-0148 (I-57 NB), Sta. 1357+01.48, 67.86' LT., Elev. 703.901

Existing Structures: S.N. 038-0147 SB and 038-0148 NB were originally constructed in 1968 as F.A.I. Route 57, Section 38-8B. The existing dual structures consist of 3-span continuous haunched concrete tee beams supported by open abutments and tapered solid concrete piers on spread footings. Each structure is 105'-0" back-to-back of abutments and 42'-6" wide out-to-out of the deck (40'-0" clear width between the bridge rails). The structures are to be removed and replaced. Traffic to be maintained using stage construction.



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FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		AAY	-
		DRAWN -	REVISED -
		RMG	-
		CHECKED -	REVISED -
		KJN	-

DESIGNED -	REVISED -
JLS	-
CHECKED -	REVISED -
AAY	-
DRAWN -	REVISED -
RMG	-
CHECKED -	REVISED -
KJN	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
HOSAM M. ABDULHADI
081-005637
CHICAGO, ILL.
EXPIRATION DATE 11-30-2012
DATE 5/19/2011
ENGINEER OF BRIDGES AND STRUCTURES

WATERWAY INFORMATION

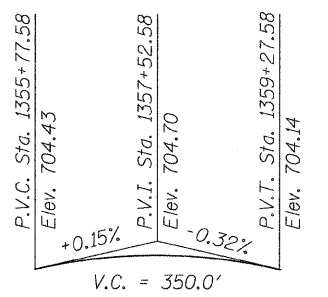
Drainage Area = 32.3 sq. mi. Low Grade Elev. 703.14 @ Sta. 1367+09

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2915	505	812	698.0	1.9	1.3	699.9	699.3
Base	100	5334	599	927	699.2	4.0	2.7	703.1	701.8
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	7096	656	1003	699.9	4.4	2.9	704.3	702.8

10 Year Velocity Through Existing Structure = 5.0 fps
10 Year Velocity Through Proposed Structure = 4.4 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	S. Abut.
	697.37	684.80	684.80	697.28



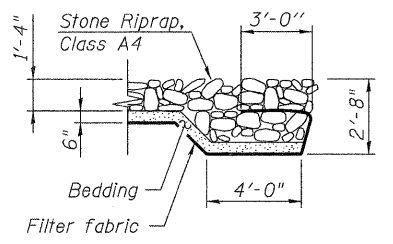
PROFILE GRADE
(along C I-57 SB & NB)

STATION 1357+52
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. (38-8) BR & BR-1
LOADING HL-93
STR. NO. 038-0222

SB NAME PLATE
See Std. 515001

STATION 1357+52
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. (38-8) BR & BR-1
LOADING HL-93
STR. NO. 038-0223

NB NAME PLATE
See Std. 515001



SECTION A-A

(Typical along outside perimeter)

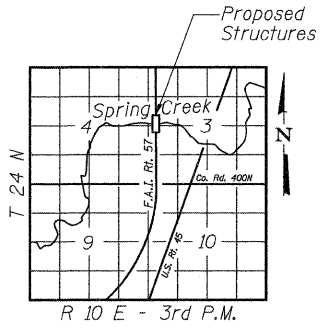
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Grade 50W)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.083g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.143g
Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
I-57 OVER SPRING CREEK
F.A.I. ROUTE 57 - SEC. (38-8) BR & BR-1
IROQUOIS COUNTY
STATION 1357+52.00
STRUCTURE NO. 038-0222/0223

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	16
				CONTRACT NO. 66948
ILLINOIS FED. AID PROJECT				

SHEET NO. S1 OF S41 SHEETS

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GENERAL NOTES

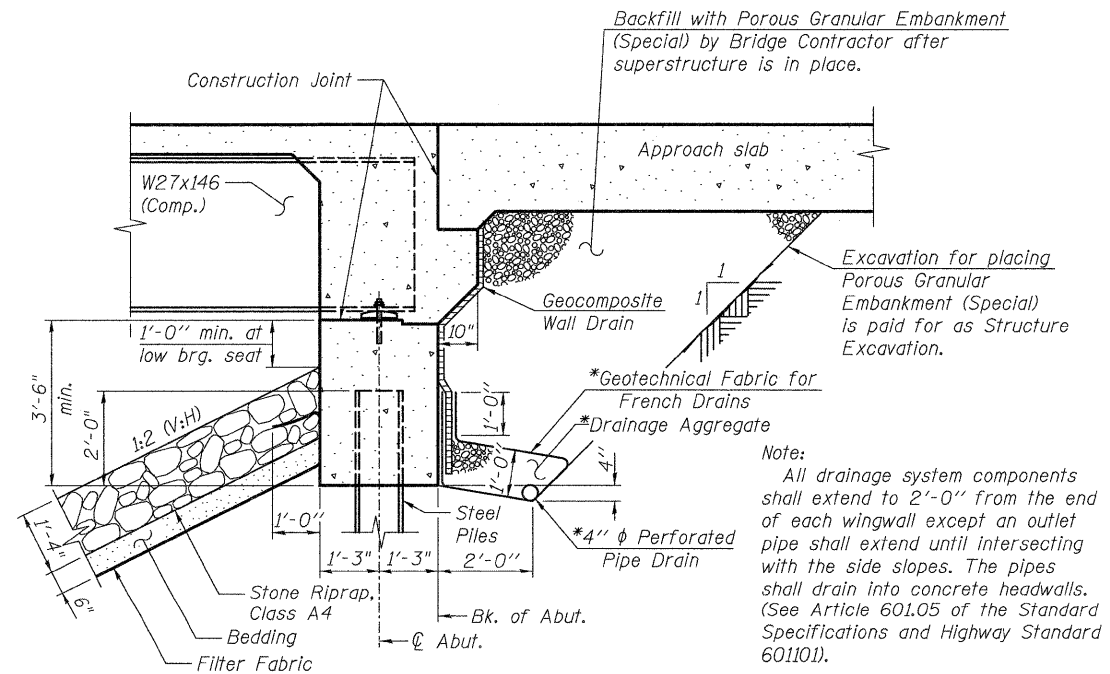
- Fasteners shall be AASHTO M164 Type 3. Bolts 7/8" diameter, holes 5/16" diameter, unless otherwise noted.
- Calculated weight of Structural Steel = 271,870 lbs.
- All structural steel shall be AASHTO M270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made by either grinding the surface or by shimming the bearings.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The existing bearings contain lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Contractor is advised that the existing concrete superstructure is a continuous structure and removal must be done in a proper sequence, possibly with falsework support.
- The existing concrete piles at the south abutment of existing Structure No. 038-0148 (NB) shall be left in place and the top portions removed to 1'-0" below the bottom of the proposed stone riprap bedding grade. Cost is included with Removal of Existing Structures.

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 General Notes, Index of Sheets and Total Bill of Material
- S3 Foundation Layout
- S4 Stage I Construction Details and Temporary Sheet Piling
- S5 Stage II Construction Details
- S6 Temporary Concrete Barrier for Stage Construction
- S7 Top of Slab Elevations (1 of 3)
- S8 Top of Slab Elevations (2 of 3)
- S9 Top of Slab Elevations (3 of 3)
- S10 Top of North Approach Slab Elevations
- S11 Top of South Approach Slab Elevations
- S12 Superstructure
- S13 Superstructure Details
- S14 Integral Abutment Diaphragm Details
- S15 Bridge Approach Slab Details (1 of 2)
- S16 Bridge Approach Slab Details (2 of 2)
- S17 Framing Plan
- S18 Structural Steel Details
- S19 Bearing Details
- S20 North Abutment Details
- S21 South Abutment Details
- S22 Pier 1 Details
- S23 Pier 2 Details
- S24 HP Pile Details
- S25 Bar Splicer Assembly and Mechanical Splicer Details
- S26 Cantilever Forming Brackets for Superstructures with W27 Beams and Smaller
- S27 Concrete Parapet Slipforming Option
- S28 Soil Boring Logs (1 of 5)
- S29 Soil Boring Logs (2 of 5)
- S30 Soil Boring Logs (3 of 5)
- S31 Soil Boring Logs (4 of 5)
- S32 Soil Boring Logs (5 of 5)
- S33-S41 Existing Plan Information

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	SUPER	SUB
Stone Riprap, Class A4	Sq. Yd.	2,844		2,844
Filter Fabric	Sq. Yd.	2,844		2,844
Removal of Existing Structures	Each	2		
Structure Excavation	Cu. Yd.	472		472
Floor Drains	Each	20	20	
Concrete Structures	Cu. Yd.	305.4		305.4
Concrete Superstructure	Cu. Yd.	629.8	629.8	
Bridge Deck Grooving	Sq. Yd.	1,488	1,488	
Concrete Encasement	Cu. Yd.	19.6		19.6
Protective Coat	Sq. Yd.	1,860	1,860	
Furnishing and Erecting Structural Steel	L. Sum	1	1	
Stud Shear Connectors	Each	10,320	10,320	
Reinforcement Bars, Epoxy Coated	Pound	188,780	151,040	37,740
Bar Splicers	Each	1,656	1,320	336
Furnishing Steel Piles HP12x53	Foot	1,347		1,347
Driving Piles	Foot	1,347		1,347
Test Pile Steel HP12x53	Each	6		6
Pile Shoes	Each	56		56
Name Plates	Each	2	2	
Anchor Bolts, 1"	Each	96		96
Geocomposite Wall Drain	Sq. Yd.	154		154
Temporary Sheet Piling	Sq. Ft.	1,239		1,239
Pipe Underdrains For Structures, 4"	Foot	270		270
Porous Granular Embankment, Special	Cu. Yd.	220		220
Underwater Structure Excavation Protection - Location 1	Each	1		1
Underwater Structure Excavation Protection - Location 2	Each	1		1
Underwater Structure Excavation Protection - Location 3	Each	1		1
Underwater Structure Excavation Protection - Location 4	Each	1		1



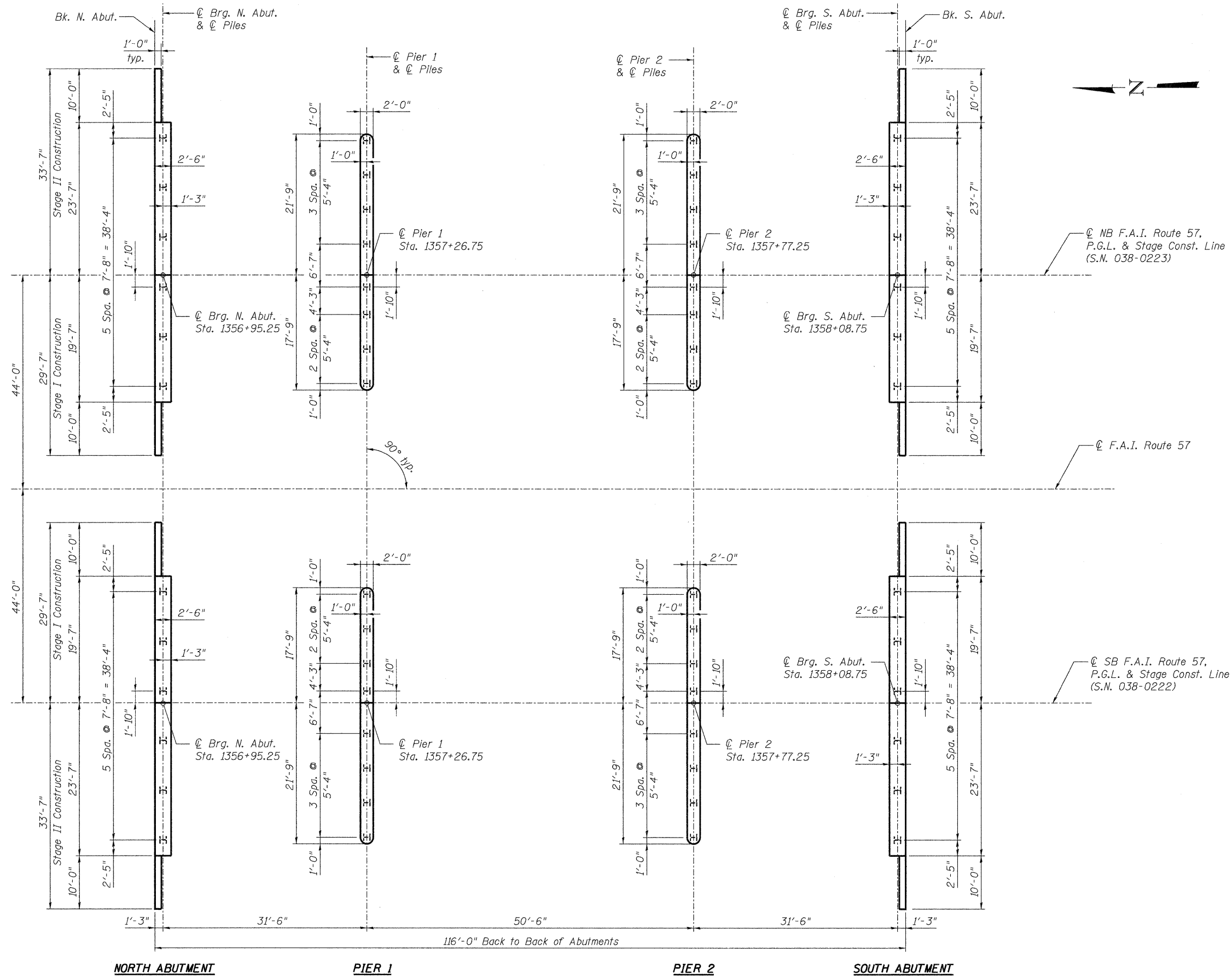
SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures, 4".

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PLOT DATE = 08/18/2011	CHECKED - KJN	REVISIONS -								

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- NOTES:**
1. For Abutment details, see sheets S20 and S21 of S41.
 2. For Pier Details, see sheets S22 and S23 of S41.
 3. For HP Pile Details, see sheet S24 of S41.

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FOUNDATION LAYOUT

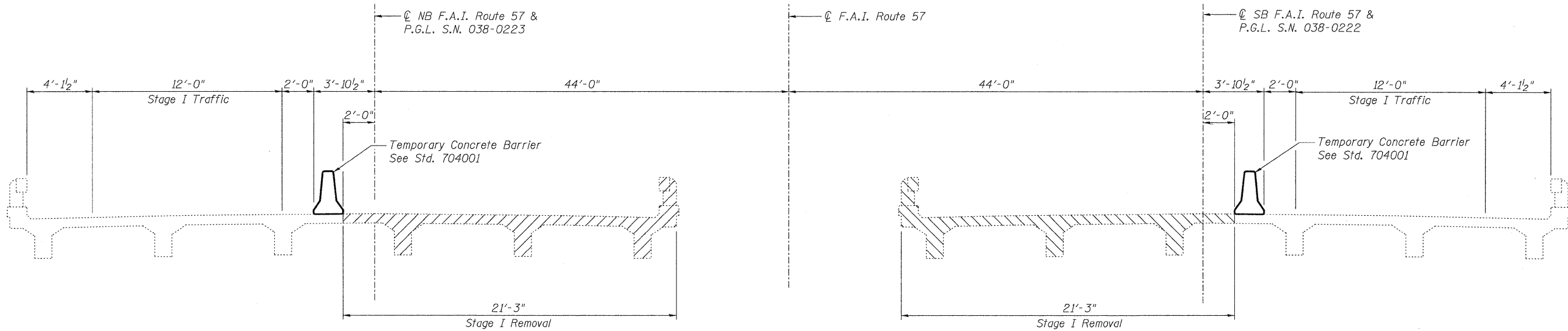
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FOUNDATION LAYOUT
 STRUCTURE NO. 038-02220223**
 SHEET NO. S3 OF S41 SHEETS

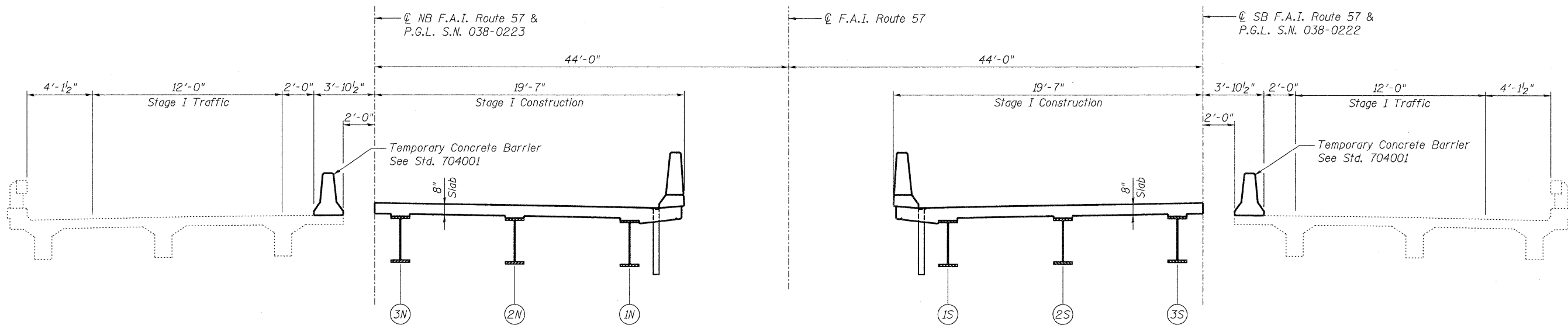
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	18
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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STAGE I REMOVAL



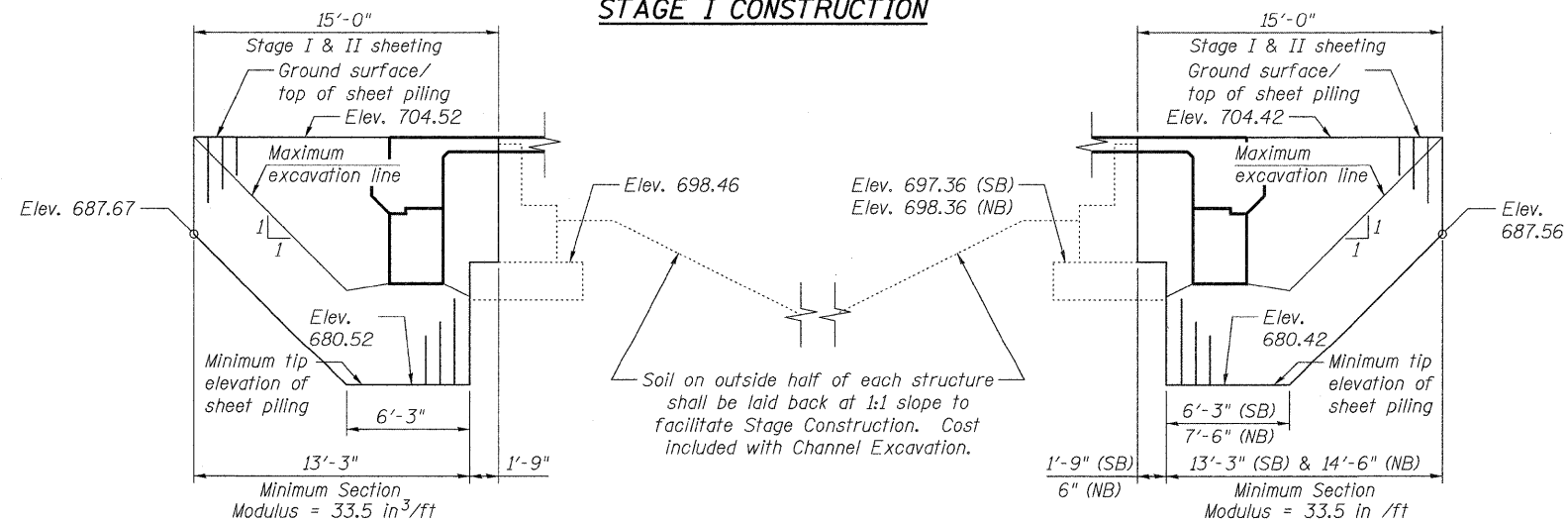
STAGE I CONSTRUCTION

LEGEND

Indicates Removal of Existing Structures

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Sheet Piling	Sq. Ft.	1,239



TEMPORARY SHEET PILING
(at North Abutment)
(N.T.S.)

TEMPORARY SHEET PILING
(at South Abutment)
(N.T.S.)

NOTES:

1. 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.
2. 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.
3. Cross Sections are shown looking South.
4. See sheet S6 of S41 for details of Temporary Concrete Barrier. For quantity, see Roadway Plans.

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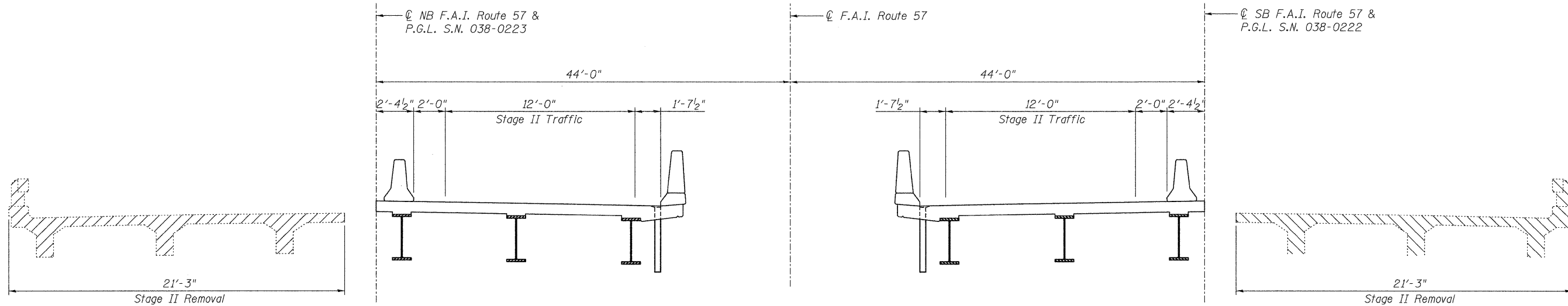
STAGE I CONSTRUCTION DETAILS AND TEMPORARY SHEET PILING
STRUCTURE NO. 038-0222/0223

SHEET NO. S4 OF S41 SHEETS

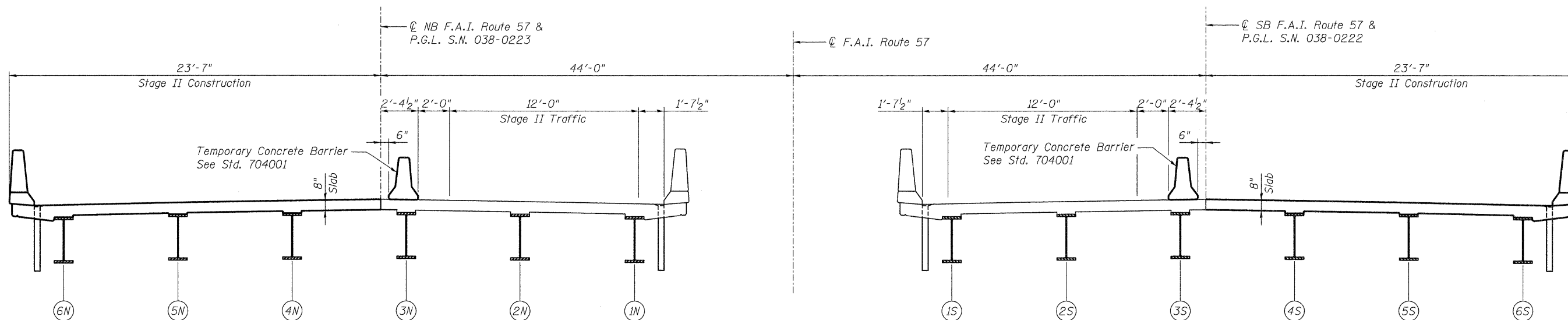
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57	(38-8) BR & BR-1	IROQUOIS	73	19
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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08/18/2011



STAGE II REMOVAL



STAGE II CONSTRUCTION

LEGEND

Indicates Removal of Existing Structures

NOTES:

1. Cross Sections are shown looking South.
2. See sheet S6 of S41 for details of Temporary Concrete Barrier. For quantity, see Roadway Plans.

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	PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE II CONSTRUCTION DETAILS
STRUCTURE NO. 038-0222/0223**

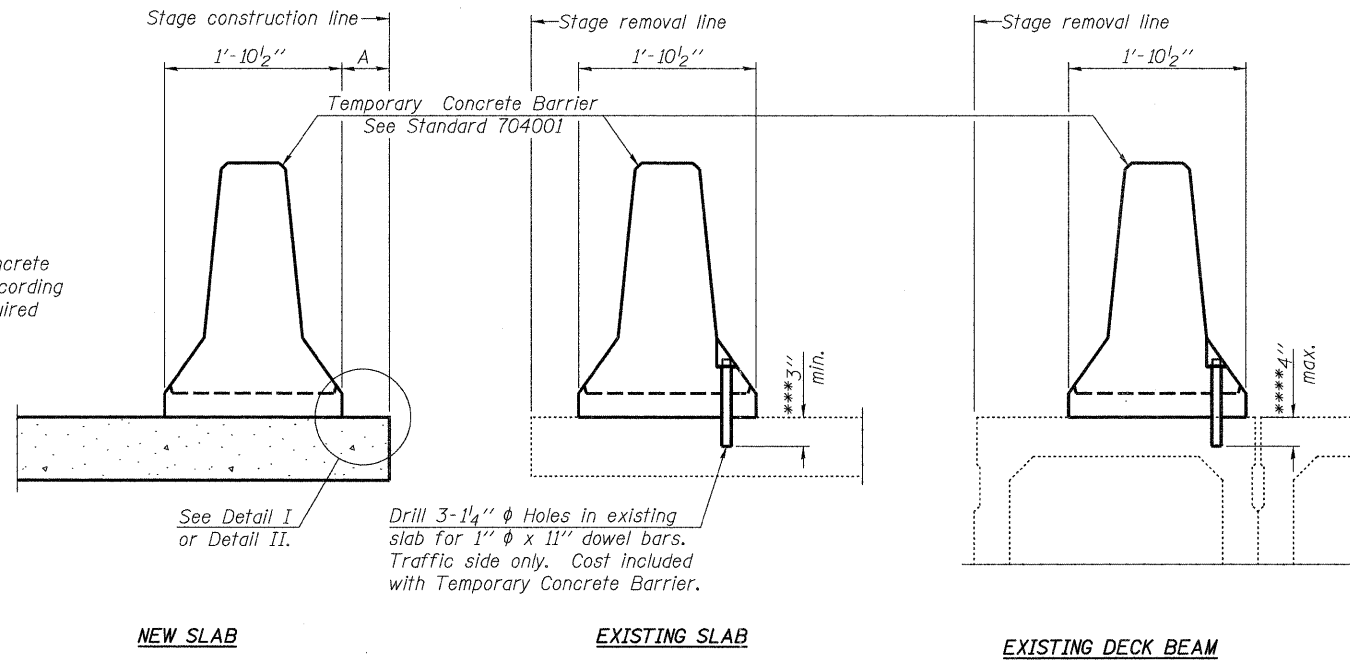
SHEET NO. S5 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	20
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

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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

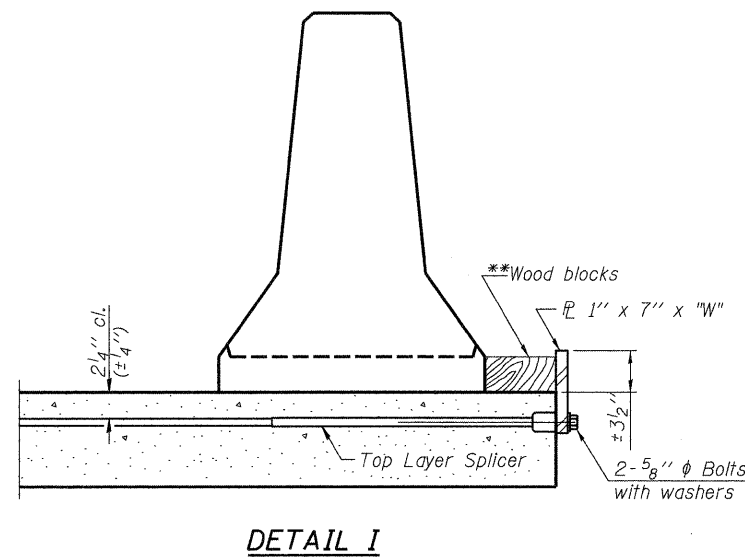
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

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.

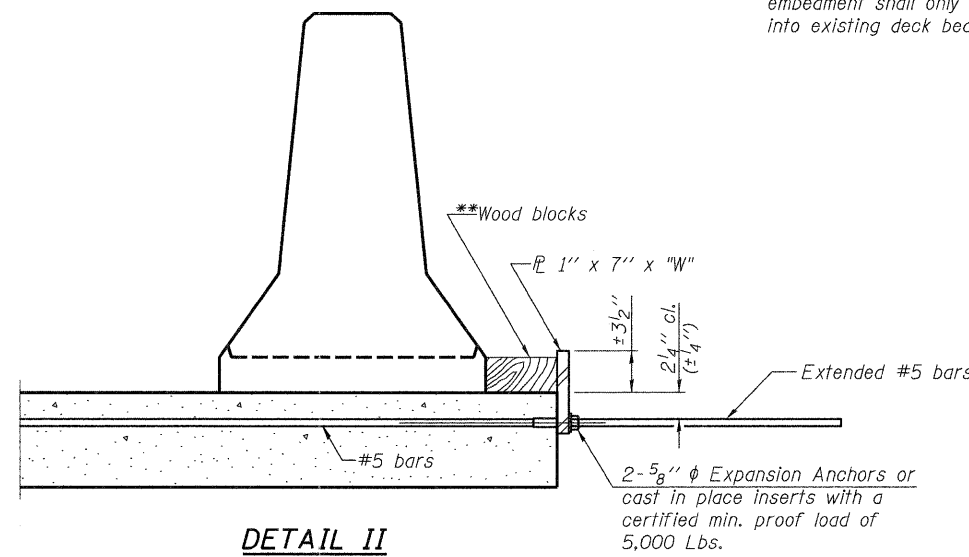
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.



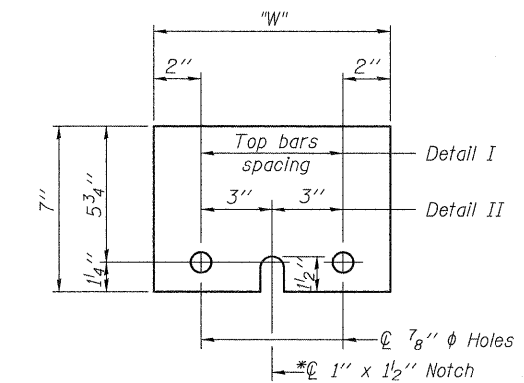
DETAIL I



DETAIL II

** 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"

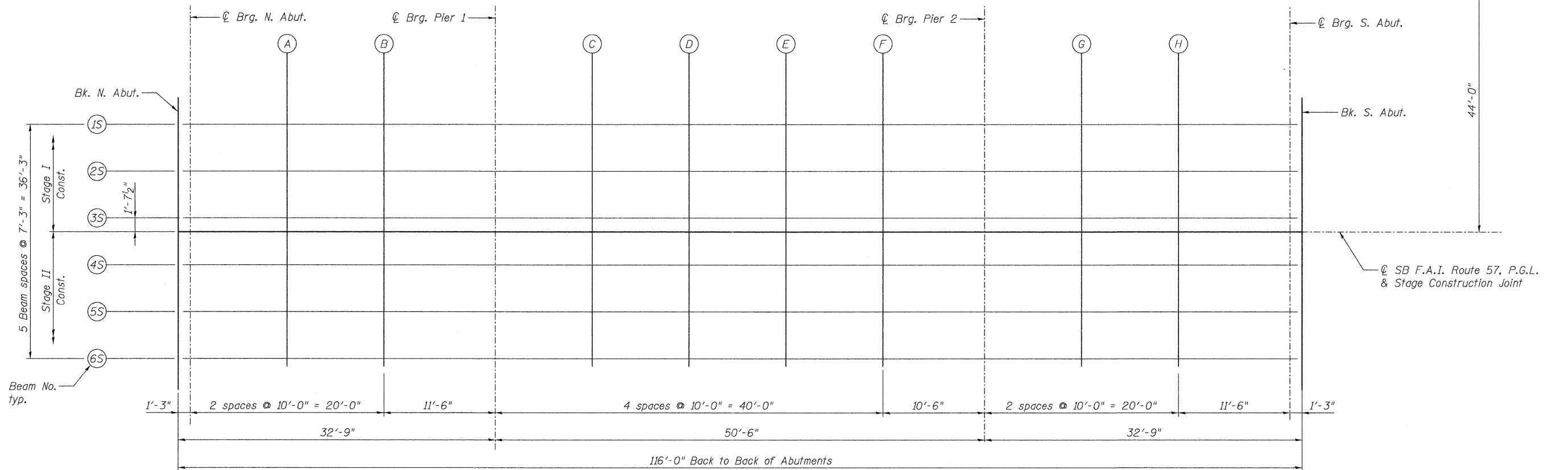
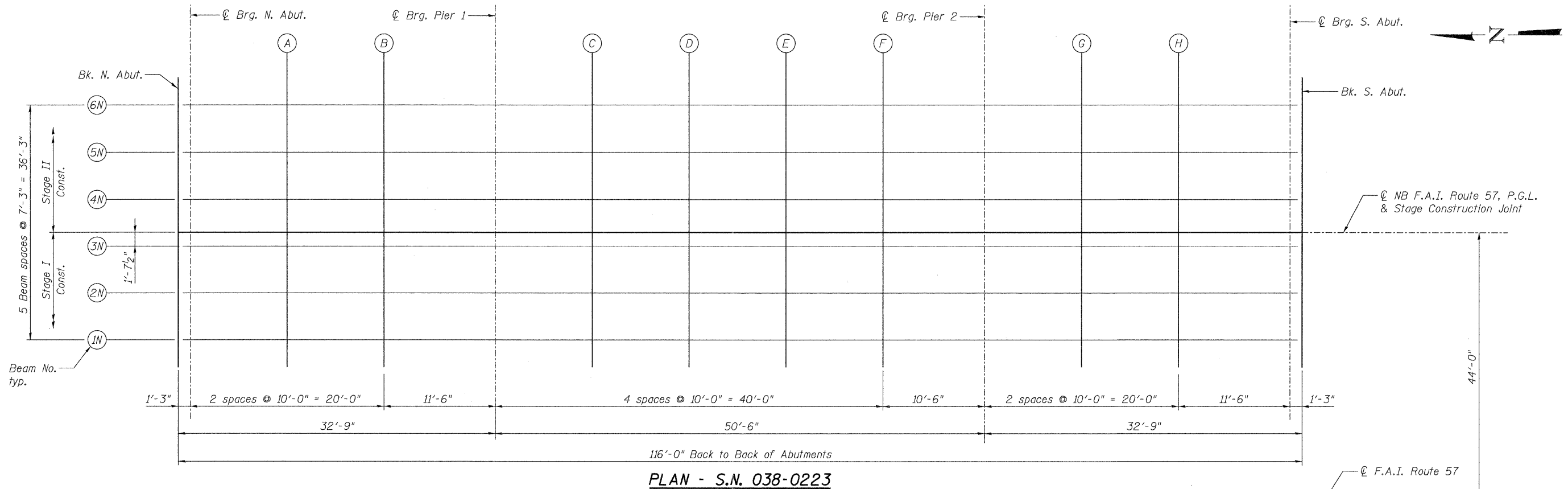


STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

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0380222&0223.66948.006-tempconbar.dgn		CHECKED - AAY	REVISED -
	PLOT SCALE =	DRAWN - RMG	REVISED -
	PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	TROQUOIS	73	21
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	



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FILE NAME =
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USER NAME = rgrimm
PLOT SCALE =
PLOT DATE = 08/18/2011

DESIGNED - JLS
CHECKED - AAY
DRAWN - RMG
CHECKED - KJN

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REVISED -
REVISED -

STATE OF ILLINOIS
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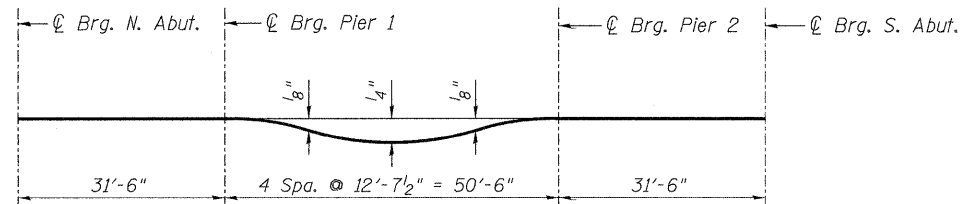
TOP OF SLAB ELEVATIONS (1 OF 3)
STRUCTURE NO. 038-0222/0223

SHEET NO. S7 OF S41 SHEETS

F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY TROY	TOTAL SHEETS 73	SHEET NO. 22
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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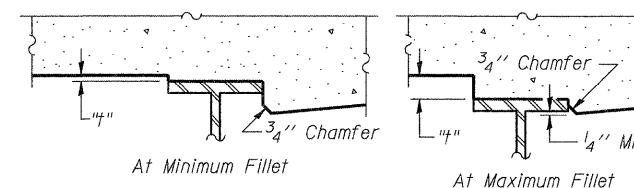
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DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note: The above deflections are not for use in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection".



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 and on sheet S9 of S41. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet S9 of S41, minus 8" slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAMS 1S & 1N

Location	Station	Offset Beam 1S	Offset Beam 1N	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	-16.13	16.13	704.24	704.24
☉ BRG. N. ABUT.	1356+95.25	-16.13	16.13	704.24	704.24
A	1357+05.25	-16.13	16.13	704.24	704.24
B	1357+15.25	-16.13	16.13	704.24	704.24
☉ BRG. PIER 1	1357+26.75	-16.13	16.13	704.24	704.24
C	1357+36.75	-16.13	16.13	704.23	704.24
D	1357+46.75	-16.13	16.13	704.22	704.24
E	1357+56.75	-16.13	16.13	704.22	704.23
F	1357+66.75	-16.13	16.13	704.21	704.22
☉ BRG. PIER 2	1357+77.25	-16.13	16.13	704.19	704.19
G	1357+87.25	-16.13	16.13	704.18	704.18
H	1357+97.25	-16.13	16.13	704.17	704.17
☉ BRG. S. ABUT.	1358+08.75	-16.13	16.13	704.15	704.15
BK. S. ABUT.	1358+10.00	-16.13	16.13	704.15	704.15

BEAMS 2S & 2N

Location	Station	Offset Beam 2S	Offset Beam 2N	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	-8.88	8.88	704.38	704.38
☉ BRG. N. ABUT.	1356+95.25	-8.88	8.88	704.38	704.38
A	1357+05.25	-8.88	8.88	704.38	704.38
B	1357+15.25	-8.88	8.88	704.38	704.38
☉ BRG. PIER 1	1357+26.75	-8.88	8.88	704.37	704.37
C	1357+36.75	-8.88	8.88	704.37	704.37
D	1357+46.75	-8.88	8.88	704.36	704.38
E	1357+56.75	-8.88	8.88	704.35	704.37
F	1357+66.75	-8.88	8.88	704.34	704.35
☉ BRG. PIER 2	1357+77.25	-8.88	8.88	704.33	704.33
G	1357+87.25	-8.88	8.88	704.32	704.32
H	1357+97.25	-8.88	8.88	704.30	704.30
☉ BRG. S. ABUT.	1358+08.75	-8.88	8.88	704.29	704.29
BK. S. ABUT.	1358+10.00	-8.88	8.88	704.28	704.28

BEAMS 3S & 3N

Location	Station	Offset Beam 3S	Offset Beam 3N	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	-1.63	1.63	704.49	704.49
☉ BRG. N. ABUT.	1356+95.25	-1.63	1.63	704.49	704.49
A	1357+05.25	-1.63	1.63	704.49	704.49
B	1357+15.25	-1.63	1.63	704.49	704.49
☉ BRG. PIER 1	1357+26.75	-1.63	1.63	704.48	704.48
C	1357+36.75	-1.63	1.63	704.48	704.49
D	1357+46.75	-1.63	1.63	704.47	704.49
E	1357+56.75	-1.63	1.63	704.46	704.48
F	1357+66.75	-1.63	1.63	704.45	704.46
☉ BRG. PIER 2	1357+77.25	-1.63	1.63	704.44	704.44
G	1357+87.25	-1.63	1.63	704.43	704.43
H	1357+97.25	-1.63	1.63	704.42	704.42
☉ BRG. S. ABUT.	1358+08.75	-1.63	1.63	704.40	704.40
BK. S. ABUT.	1358+10.00	-1.63	1.63	704.40	704.40

**☉ SB/NB F.A.I. ROUTE 57, P.G.L.
& STAGE CONSTRUCTION JOINT**

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	0.00	0.00	704.52	704.52
☉ BRG. N. ABUT.	1356+95.25	0.00	0.00	704.52	704.52
A	1357+05.25	0.00	0.00	704.52	704.52
B	1357+15.25	0.00	0.00	704.51	704.51
☉ BRG. PIER 1	1357+26.75	0.00	0.00	704.51	704.51
C	1357+36.75	0.00	0.00	704.50	704.51
D	1357+46.75	0.00	0.00	704.50	704.51
E	1357+56.75	0.00	0.00	704.49	704.51
F	1357+66.75	0.00	0.00	704.48	704.49
☉ BRG. PIER 2	1357+77.25	0.00	0.00	704.47	704.47
G	1357+87.25	0.00	0.00	704.46	704.46
H	1357+97.25	0.00	0.00	704.44	704.44
☉ BRG. S. ABUT.	1358+08.75	0.00	0.00	704.42	704.42
BK. S. ABUT.	1358+10.00	0.00	0.00	704.42	704.42

BEAMS 4S & 4N

Location	Station	Offset Beam 4S	Offset Beam 4N	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	5.63	-5.63	704.43	704.43
☉ BRG. N. ABUT.	1356+95.25	5.63	-5.63	704.43	704.43
A	1357+05.25	5.63	-5.63	704.43	704.43
B	1357+15.25	5.63	-5.63	704.43	704.43
☉ BRG. PIER 1	1357+26.75	5.63	-5.63	704.42	704.42
C	1357+36.75	5.63	-5.63	704.42	704.42
D	1357+46.75	5.63	-5.63	704.41	704.43
E	1357+56.75	5.63	-5.63	704.40	704.42
F	1357+66.75	5.63	-5.63	704.39	704.40
☉ BRG. PIER 2	1357+77.25	5.63	-5.63	704.38	704.38
G	1357+87.25	5.63	-5.63	704.37	704.37
H	1357+97.25	5.63	-5.63	704.35	704.36
☉ BRG. S. ABUT.	1358+08.75	5.63	-5.63	704.34	704.34
BK. S. ABUT.	1358+10.00	5.63	-5.63	704.33	704.33

BEAMS 5S & 5N

Location	Station	Offset Beam 5S	Offset Beam 5N	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	12.88	-12.88	704.31	704.31
☉ BRG. N. ABUT.	1356+95.25	12.88	-12.88	704.31	704.31
A	1357+05.25	12.88	-12.88	704.31	704.31
B	1357+15.25	12.88	-12.88	704.31	704.31
☉ BRG. PIER 1	1357+26.75	12.88	-12.88	704.30	704.30
C	1357+36.75	12.88	-12.88	704.30	704.31
D	1357+46.75	12.88	-12.88	704.29	704.31
E	1357+56.75	12.88	-12.88	704.28	704.30
F	1357+66.75	12.88	-12.88	704.27	704.28
☉ BRG. PIER 2	1357+77.25	12.88	-12.88	704.26	704.26
G	1357+87.25	12.88	-12.88	704.25	704.25
H	1357+97.25	12.88	-12.88	704.24	704.24
☉ BRG. S. ABUT.	1358+08.75	12.88	-12.88	704.22	704.22
BK. S. ABUT.	1358+10.00	12.88	-12.88	704.22	704.22

BEAMS 6S & 6N

Location	Station	Offset Beam 6S	Offset Beam 6N	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT.	1356+94.00	20.13	-20.13	704.16	704.16
☉ BRG. N. ABUT.	1356+95.25	20.13	-20.13	704.16	704.16
A	1357+05.25	20.13	-20.13	704.16	704.16
B	1357+15.25	20.13	-20.13	704.16	704.16
☉ BRG. PIER 1	1357+26.75	20.13	-20.13	704.15	704.15
C	1357+36.75	20.13	-20.13	704.15	704.16
D	1357+46.75	20.13	-20.13	704.14	704.16
E	1357+56.75	20.13	-20.13	704.13	704.15
F	1357+66.75	20.13	-20.13	704.12	704.13
☉ BRG. PIER 2	1357+77.25	20.13	-20.13	704.11	704.11
G	1357+87.25	20.13	-20.13	704.10	704.10
H	1357+97.25	20.13	-20.13	704.09	704.09
☉ BRG. S. ABUT.	1358+08.75	20.13	-20.13	704.07	704.07
BK. S. ABUT.	1358+10.00	20.13	-20.13	704.07	704.07

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	PLOT SCALE =	DRAWN - RMG	REVISED -
	PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS (3 OF 3)
STRUCTURE NO. 038-0222/0223**

SHEET NO. S9 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	24
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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SB/NB F.A.I. ROUTE 57, P.G.L.
& STAGE CONSTRUCTION JOINT

EDGE OF INSIDE SHOULDER (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF NORTH APPR. SLAB	1356+64.00	-18.00	18.00	704.20
N1	1356+74.00	-18.00	18.00	704.20
N2	1356+84.00	-18.00	18.00	704.20
S. END OF NORTH APPR. SLAB	1356+94.00	-18.00	18.00	704.20

INSIDE EDGE OF PAVEMENT (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF NORTH APPR. SLAB	1356+64.00	-12.00	12.00	704.33
N1	1356+74.00	-12.00	12.00	704.33
N2	1356+84.00	-12.00	12.00	704.33
S. END OF NORTH APPR. SLAB	1356+94.00	-12.00	12.00	704.33

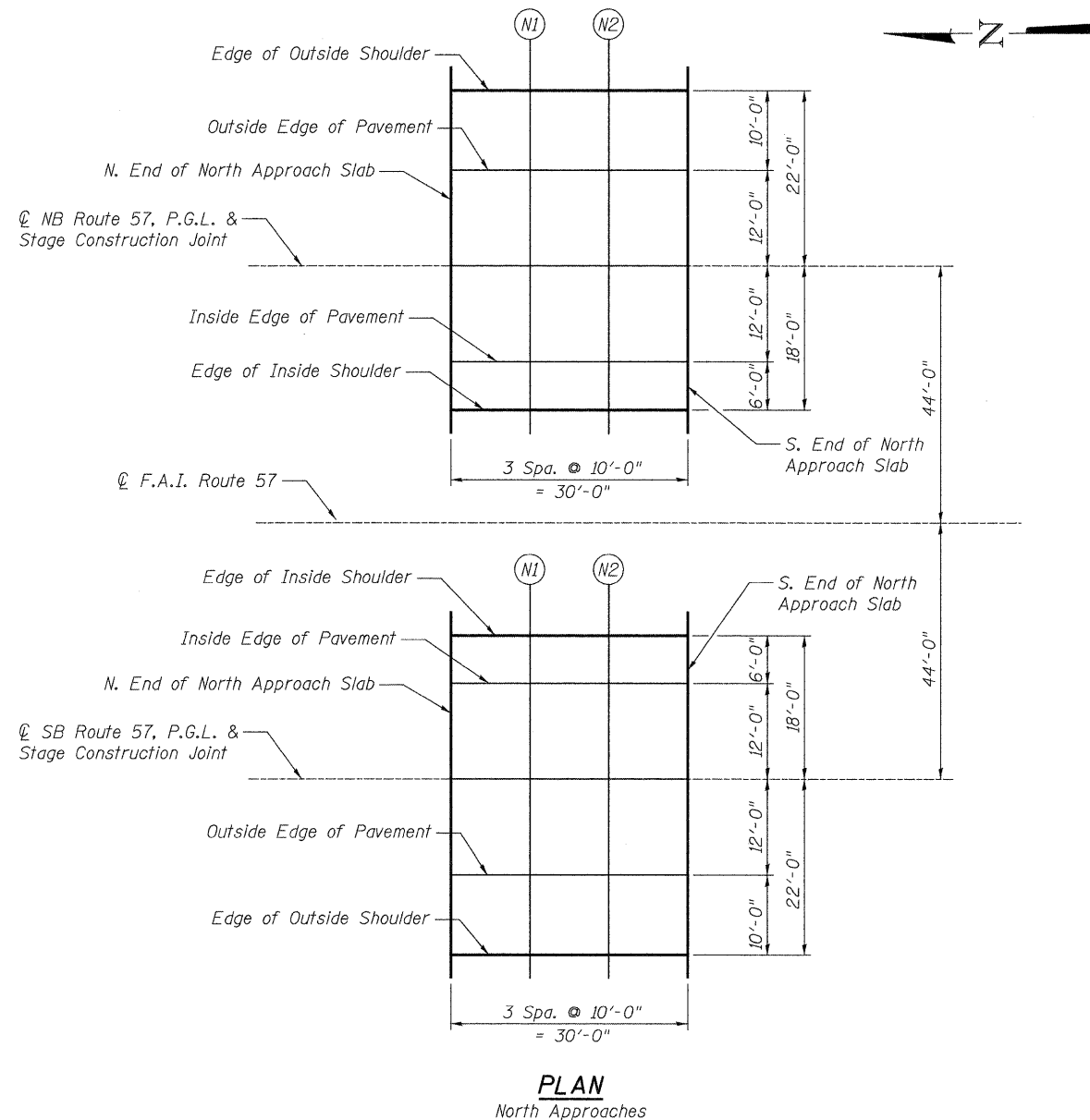
Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF NORTH APPR. SLAB	1356+64.00	0.00	0.00	704.52
N1	1356+74.00	0.00	0.00	704.52
N2	1356+84.00	0.00	0.00	704.52
S. END OF NORTH APPR. SLAB	1356+94.00	0.00	0.00	704.52

OUTSIDE EDGE OF PAVEMENT (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF NORTH APPR. SLAB	1356+64.00	12.00	-12.00	704.33
N1	1356+74.00	12.00	-12.00	704.33
N2	1356+84.00	12.00	-12.00	704.33
S. END OF NORTH APPR. SLAB	1356+94.00	12.00	-12.00	704.33

EDGE OF OUTSIDE SHOULDER (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF NORTH APPR. SLAB	1356+64.00	22.00	-22.00	704.12
N1	1356+74.00	22.00	-22.00	704.12
N2	1356+84.00	22.00	-22.00	704.12
S. END OF NORTH APPR. SLAB	1356+94.00	22.00	-22.00	704.12



PLAN
North Approaches

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SHEET NO. S10 OF S41 SHEETS										

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EDGE OF INSIDE SHOULDER (SB & NB)

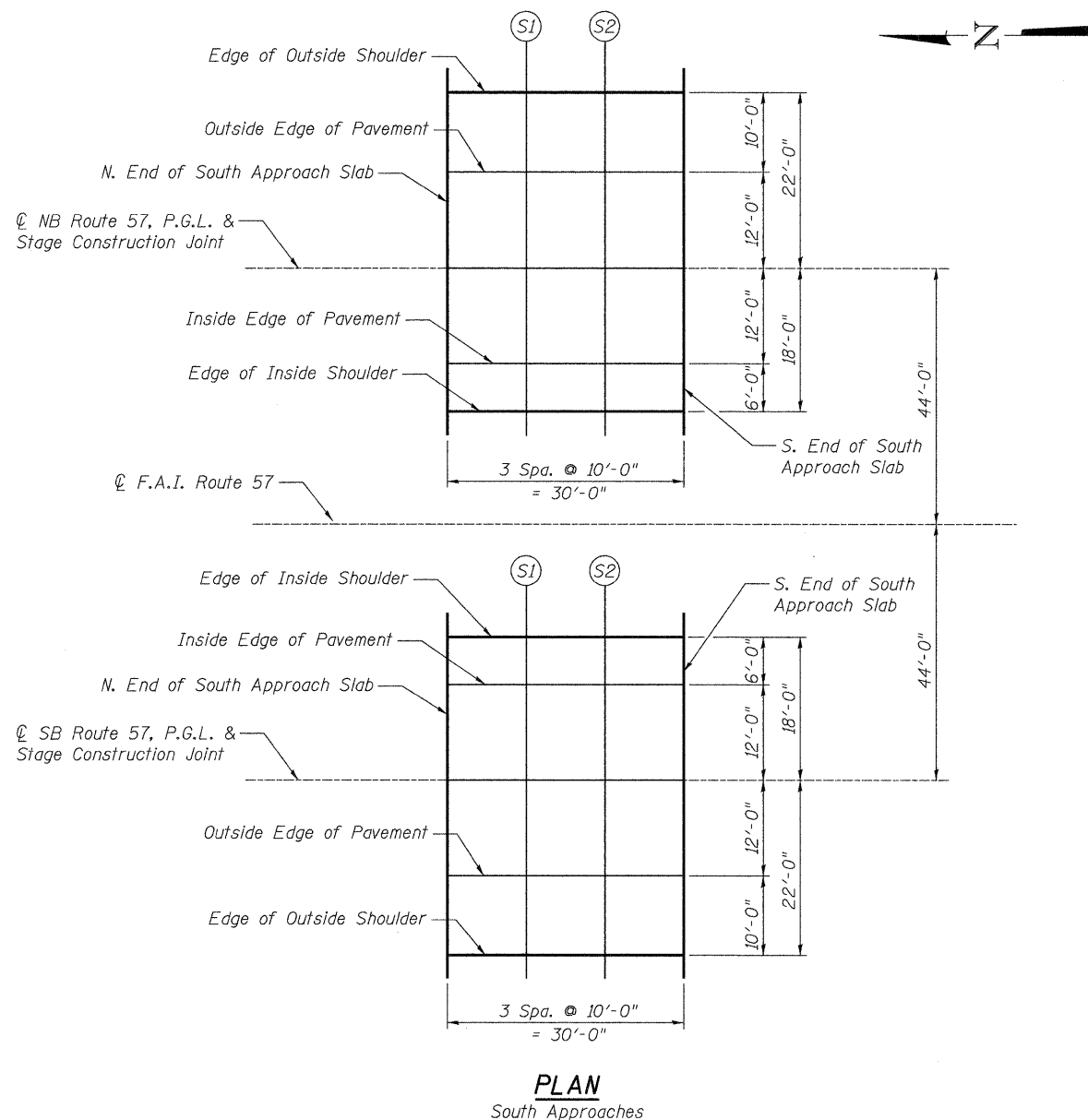
Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF SOUTH APPR. SLAB	1358+10.00	-18.00	18.00	704.11
S1	1358+20.00	-18.00	18.00	704.09
S2	1358+30.00	-18.00	18.00	704.07
S. END OF SOUTH APPR. SLAB	1358+40.00	-18.00	18.00	704.05

INSIDE EDGE OF PAVEMENT (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF SOUTH APPR. SLAB	1358+10.00	-12.00	12.00	704.24
S1	1358+20.00	-12.00	12.00	704.22
S2	1358+30.00	-12.00	12.00	704.20
S. END OF SOUTH APPR. SLAB	1358+40.00	-12.00	12.00	704.18

SB/NB F.A.I. ROUTE 57, P.G.L. & STAGE CONSTRUCTION JOINT

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF SOUTH APPR. SLAB	1358+10.00	0.00	0.00	704.43
S1	1358+20.00	0.00	0.00	704.41
S2	1358+30.00	0.00	0.00	704.39
S. END OF SOUTH APPR. SLAB	1358+40.00	0.00	0.00	704.37



OUTSIDE EDGE OF PAVEMENT (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF SOUTH APPR. SLAB	1358+10.00	12.00	-12.00	704.24
S1	1358+20.00	12.00	-12.00	704.22
S2	1358+30.00	12.00	-12.00	704.20
S. END OF SOUTH APPR. SLAB	1358+40.00	12.00	-12.00	704.18

EDGE OF OUTSIDE SHOULDER (SB & NB)

Location	Station	Offset SB I-57	Offset NB I-57	Theoretical Grade Elevations
N. END OF SOUTH APPR. SLAB	1358+10.00	22.00	-22.00	704.03
S1	1358+20.00	22.00	-22.00	704.01
S2	1358+30.00	22.00	-22.00	703.99
S. END OF SOUTH APPR. SLAB	1358+40.00	22.00	-22.00	703.97

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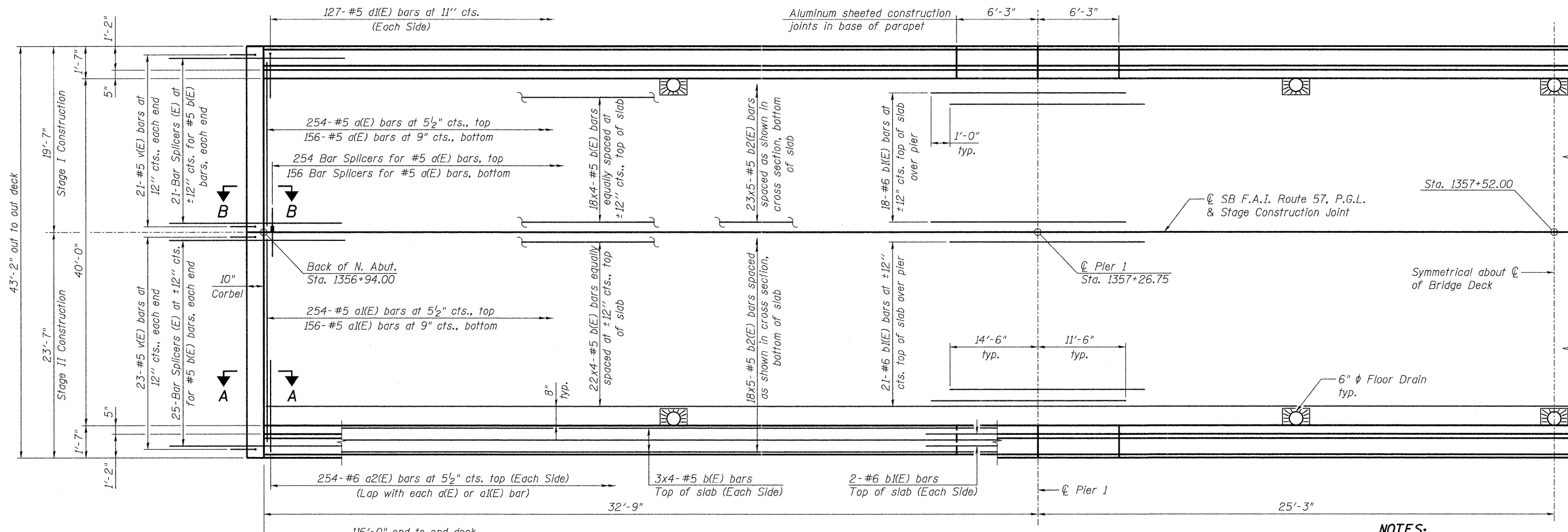
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 038-0222/0223

SHEET NO. S11 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	26
CONTRACT NO. 66948				
ILLINOIS FED. AID PROJECT				

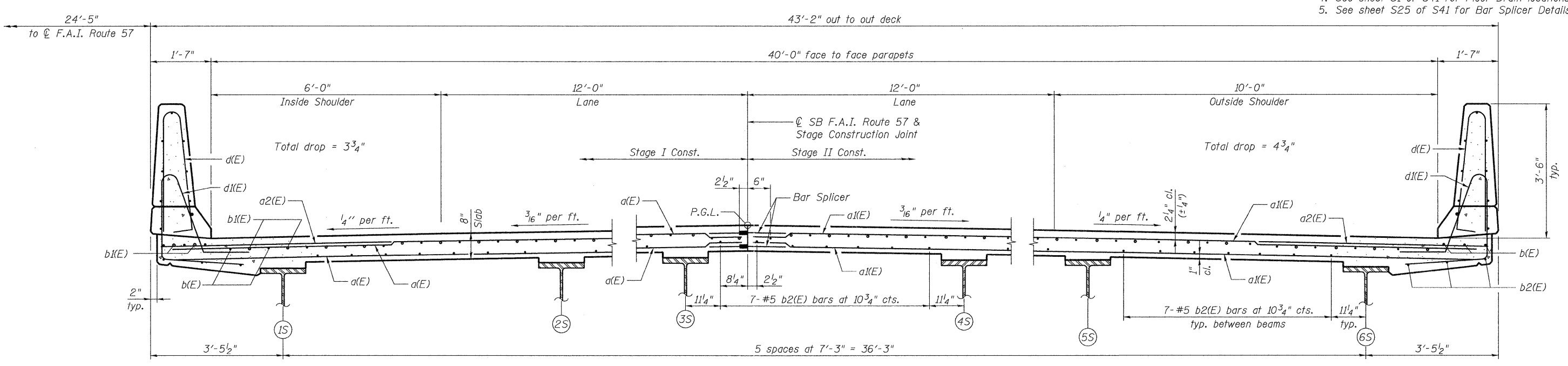
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PARTIAL PLAN
(SB North half shown - NB similar)

MINIMUM BAR LAP
(Slab)
#5 bar = 3'-3"

- NOTES:**
1. See sheet S13 of S41 for superstructure details, parapet reinforcement and Bill of Material.
 2. See sheet S14 of S41 for Sections A-A and B-B.
 3. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 4. See sheet S1 of S41 for Floor Drain locations.
 5. See sheet S25 of S41 for Bar Splicer Details.



CROSS SECTION
(SB - Looking South)

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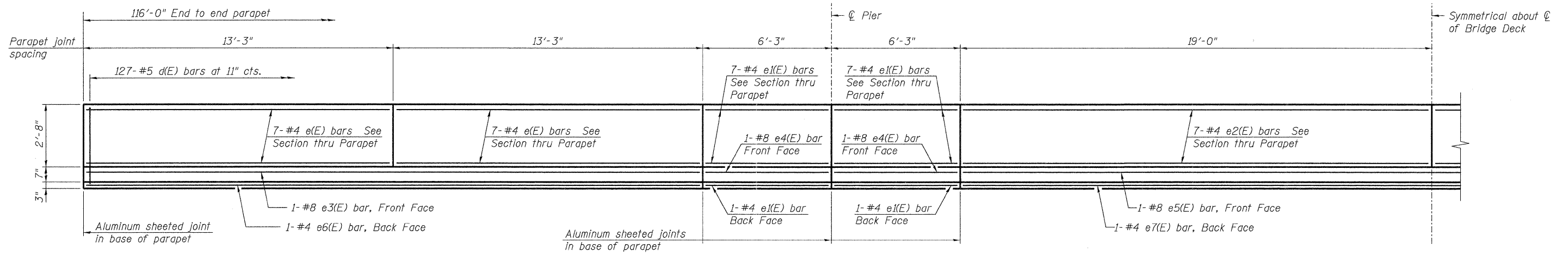
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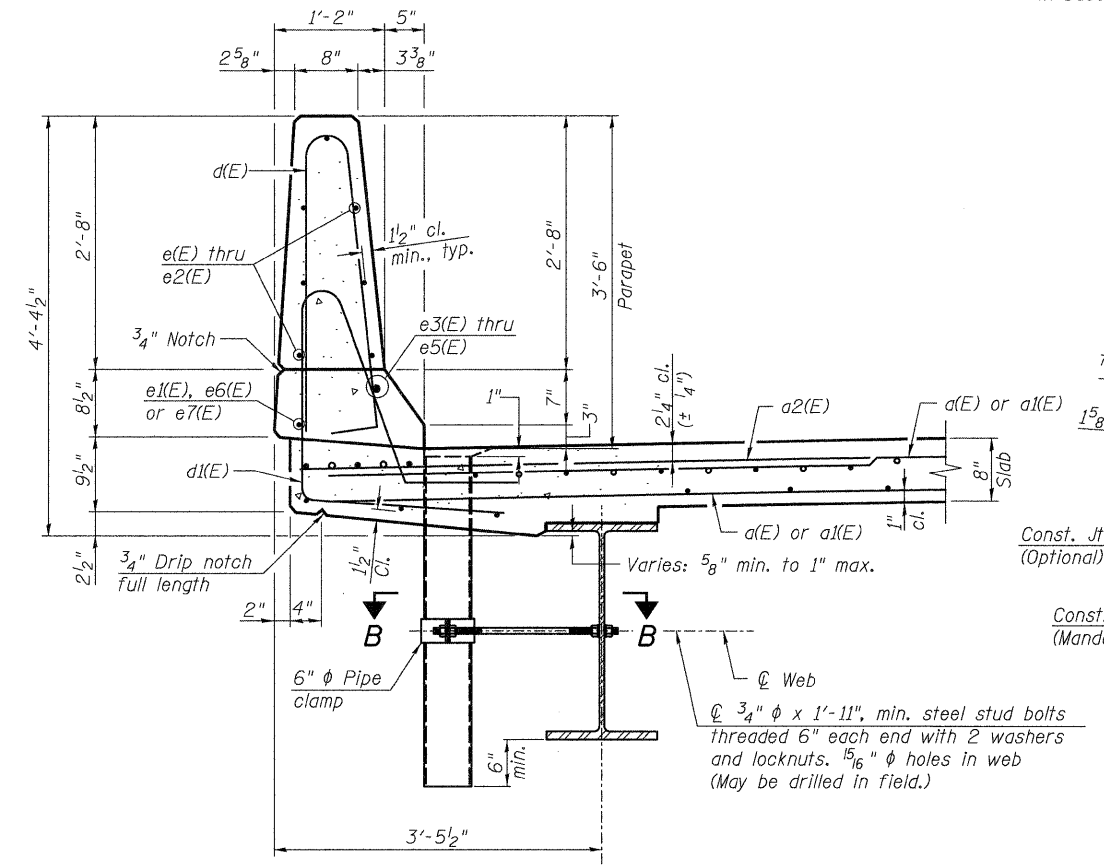
SUPERSTRUCTURE
STRUCTURE NO. 038-0222/0223
SHEET NO. S12 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	27
CONTRACT NO. 66948				
ILLINOIS FED. AID PROJECT				

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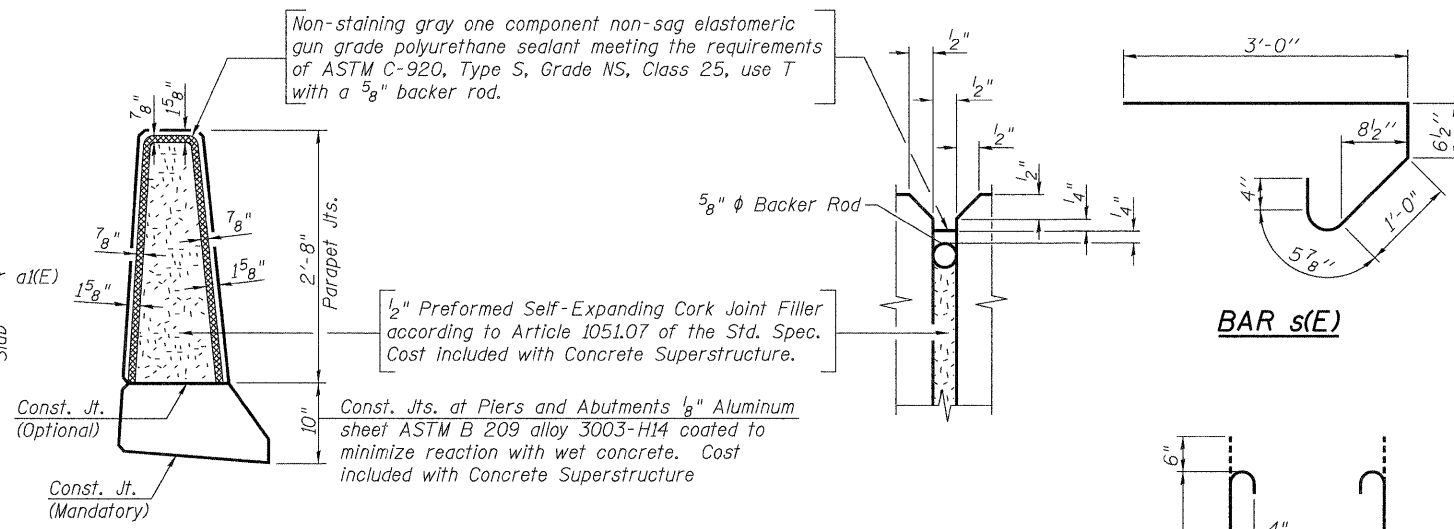


INSIDE ELEVATION OF PARAPET



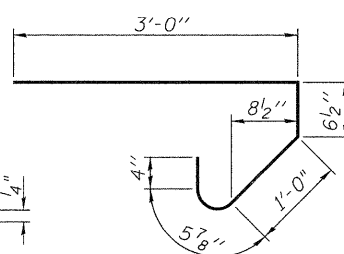
SECTION THRU PARAPET

Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, use T with a 5/8" backer rod.

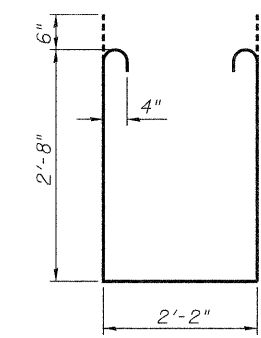


PARAPET JOINT DETAILS

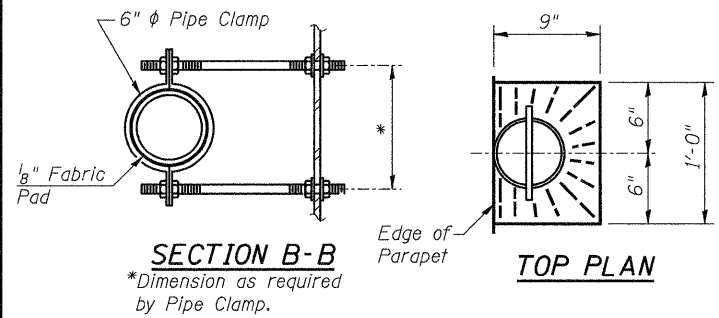
- Notes:
1. Floor Drains need not be painted.
 2. Floor Drains shall be located clear of all diaphragms.
 3. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 4. Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.



BAR s(E)

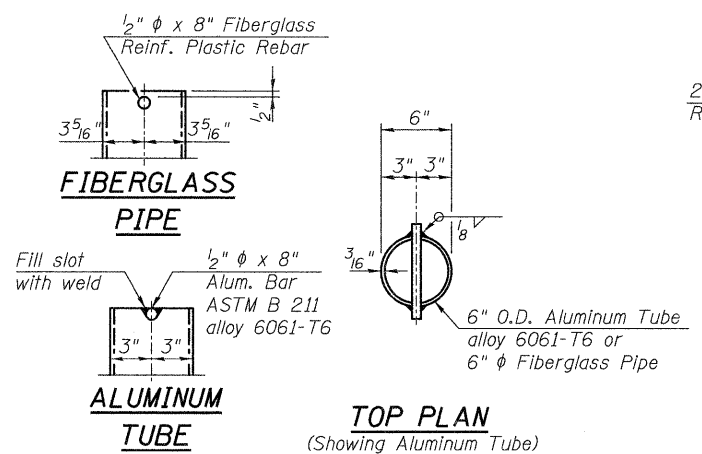


BAR s(E)



SECTION B-B

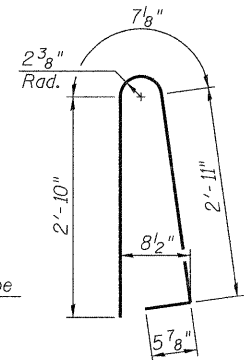
TOP PLAN



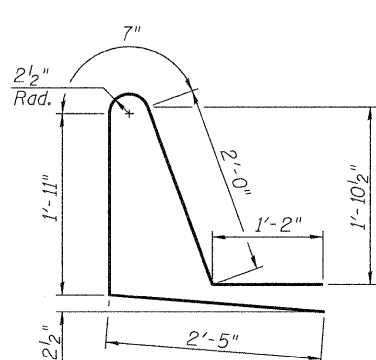
FIBERGLASS PIPE

ALUMINUM TUBE

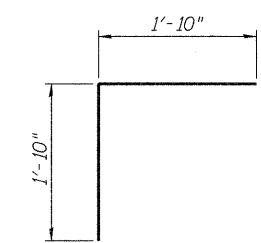
TOP PLAN (Showing Aluminum Tube)



BAR d(E)



BAR d(E)



BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL (TWO DECKS)

Bar	No.	Size	Length	Shape
a(E)	820	#5	19'-3"	—
a1(E)	820	#5	23'-3"	—
a2(E)	1016	#6	6'-6"	—
b(E)	368	#5	31'-6"	—
b1(E)	172	#6	27'-0"	—
b2(E)	410	#5	25'-10"	—
d(E)	508	#5	6'-10"	—
d1(E)	508	#5	8'-1"	—
e(E)	112	#4	12'-11"	—
e1(E)	128	#4	5'-11"	—
e2(E)	56	#4	18'-8"	—
e3(E)	8	#8	26'-2"	—
e4(E)	16	#8	5'-11"	—
e5(E)	4	#8	37'-8"	—
e6(E)	8	#4	26'-2"	—
e7(E)	4	#4	37'-8"	—
m(E)	28	#6	19'-5"	—
m1(E)	16	#6	6'-9"	—
m2(E)	8	#6	3'-1"	—
m3(E)	28	#6	23'-5"	—
m4(E)	4	#6	1'-5"	—
m5(E)	4	#6	5'-5"	—
s(E)	164	#5	5'-5"	—
s1(E)	164	#4	8'-6"	—
v(E)	176	#5	3'-8"	—
Reinforcement Bars, Epoxy Coated	Pound		92,490	
Concrete Superstructure	Cu. Yd.		366.4	
Bridge Deck Grooving	Sq. Yd.		980	
Protective Coat	Sq. Yd.		1,254	
Floor Drains	Each		20	

Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP (Parapet)

- #4 bar = 2'-0"
- #8 bar = 5'-2"

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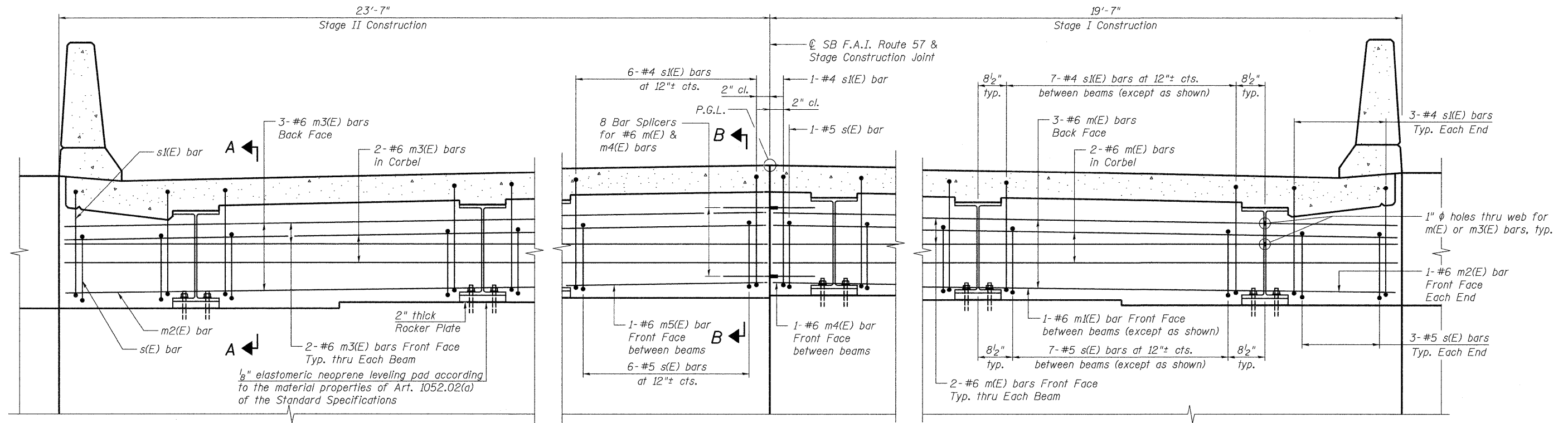
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		CHECKED - KJN	REVISED -

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SUPERSTRUCTURE DETAILS
STRUCTURE NO. 038-02220223
SHEET NO. S13 OF S41 SHEETS

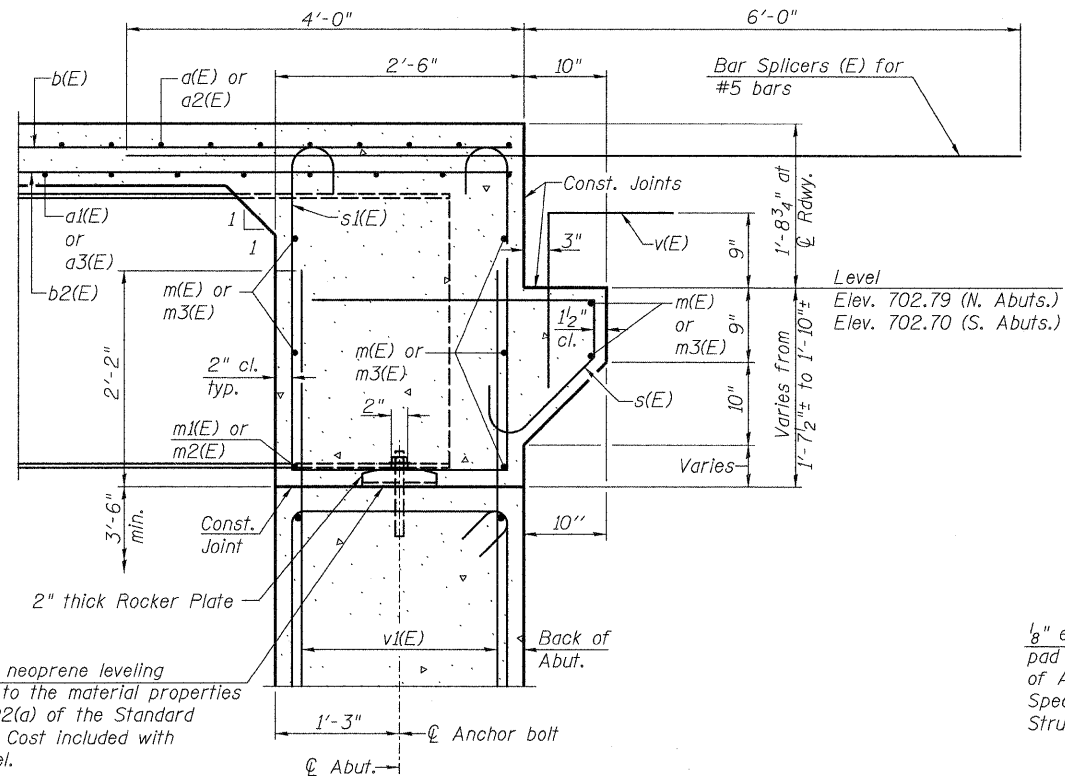
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			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

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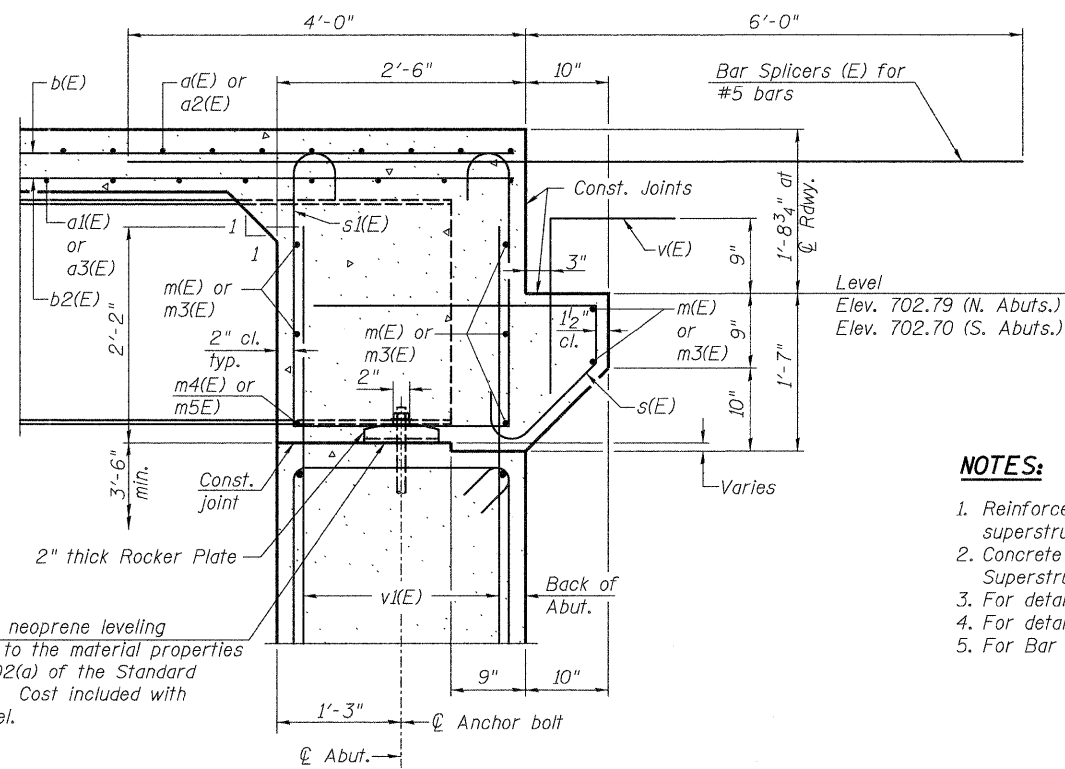
DIAPHRAGM ELEVATION AT ABUTMENT

(SB N. Abutment shown looking North - NB N. Abutment opposite hand)



SECTION A-A

(Beams 1, 2, 5 and 6)
(Diaphragms at S. Abutments similar)



SECTION B-B

(Beams 3 and 4)
(Diaphragms at S. Abutments similar)

NOTES:

1. Reinforcement bars in diaphragm are billed with superstructure on sheet S13 of S41.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet S13 of S41.
3. For details of bars s(E) & s1(E), see sheet S13 of S41.
4. For details of v(E) bars, see sheets S20 and S21 of S41.
5. For Bar Splicer Details, see sheet S25 of S41.

MINIMUM BAR LAP

#6 bar = 3'-4"

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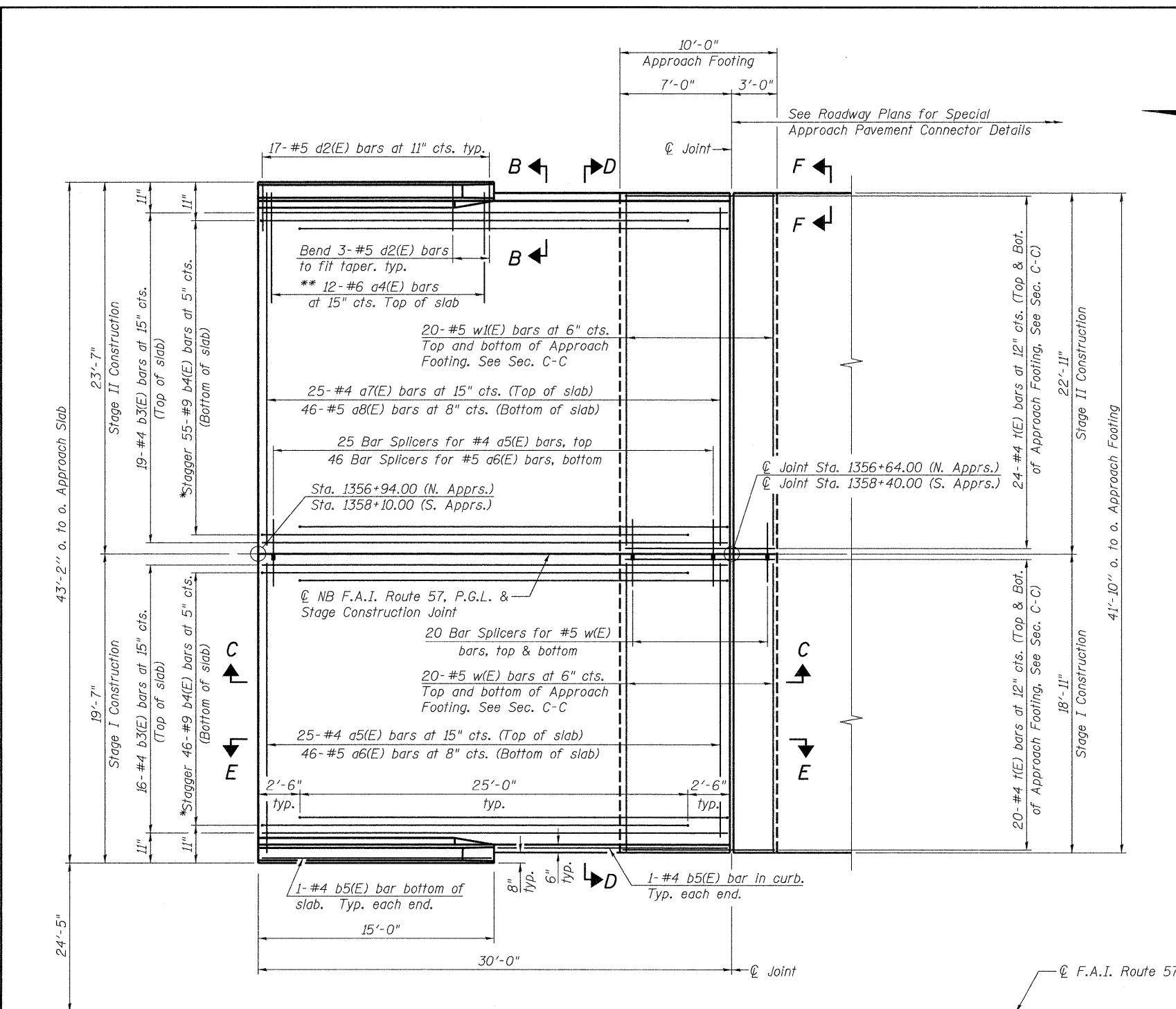
**STATE OF ILLINOIS
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**INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 038-02220223**

SHEET NO. S14 OF S41 SHEETS

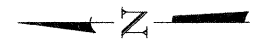
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	29
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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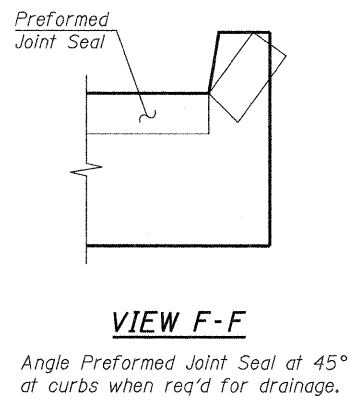
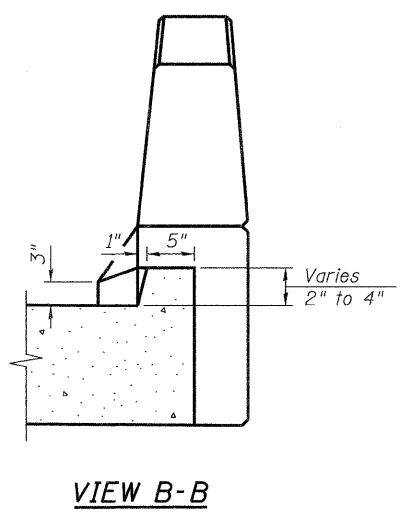
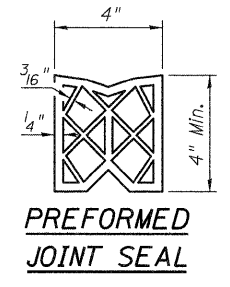
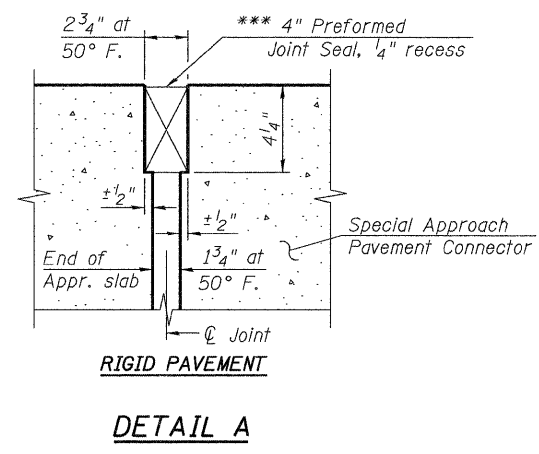


PLAN
 (NB South Approach shown, NB North Approach similar)
 (SB South & North Approaches symmetrical about $\text{C} \cdot \text{F.A.I. Route 57}$)

* Tilt #9 b4(E) bars as required to maintain clearance.
 ** Space between a5(E) or a7(E) bars, typ. ea. parapet.



*** Cost included with Concrete Superstructure.



NOTE:
 See sheet S16 of S41 for Sections C-C & D-D and View E-E.
 a5(E), a6(E), a7(E) and a8(E) bar spacings measured along $\text{C} \cdot \text{Rdwy}$.

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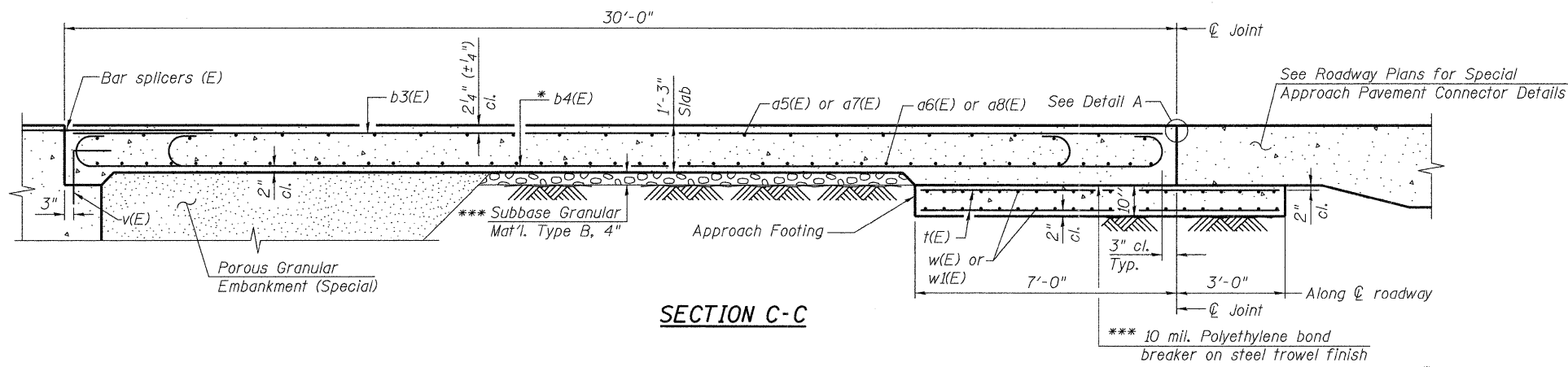
BRIDGE APPROACH SLAB DETAILS (1 OF 2)
STRUCTURE NO. 038-02220223
 SHEET NO. S15 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	30
				CONTRACT NO. 66948
ILLINOIS FED. AID PROJECT				

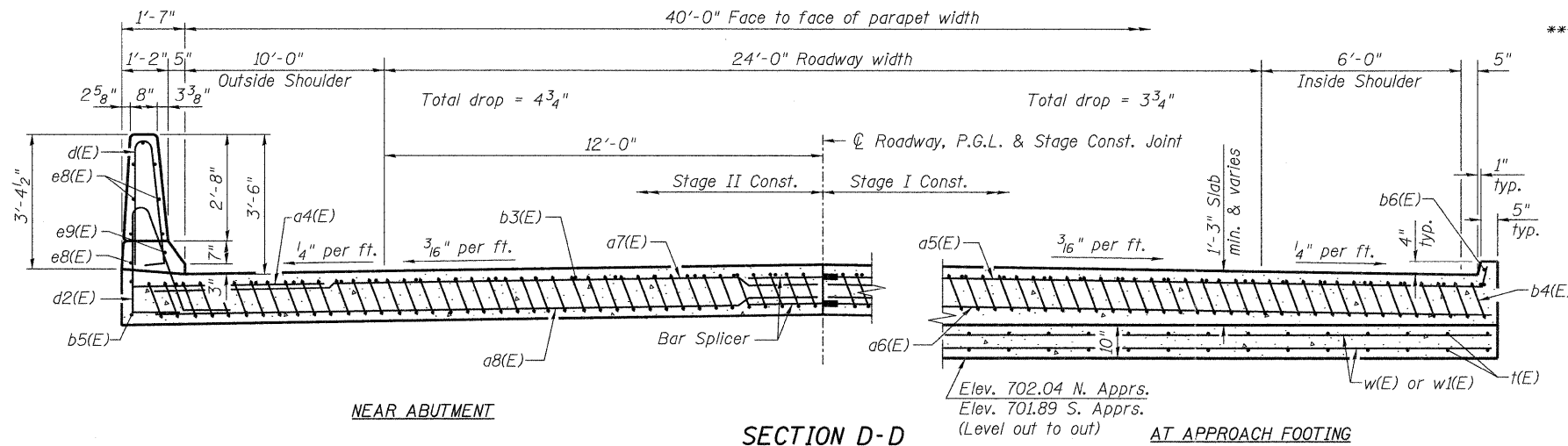
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**FOUR APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a4(E)	96	#6	6'-6"	—
a5(E)	100	#4	19'-1"	—
a6(E)	184	#5	18'-9"	—
a7(E)	100	#4	23'-1"	—
a8(E)	184	#5	22'-9"	—
b3(E)	140	#4	29'-8"	—
b4(E)	404	#9	29'-9"	—
b5(E)	16	#4	14'-8"	—
d(E)	136	#5	6'-10"	—
d2(E)	136	#5	7'-11"	—
e8(E)	64	#4	14'-8"	—
e9(E)	8	#8	14'-8"	—
t(E)	352	#4	9'-8"	—
w(E)	160	#5	18'-9"	—
w1(E)	160	#5	22'-9"	—
Concrete Superstructure		Cu. Yd.	263.4	
Concrete Structures		Cu. Yd.	51.6	
Reinforcement Bars, Epoxy Coated		Pound	67,750	
Bridge Deck Grooving		Sq. Yd.	508	
Protective Coat		Sq. Yd.	606	



SECTION C-C



NEAR ABUTMENT

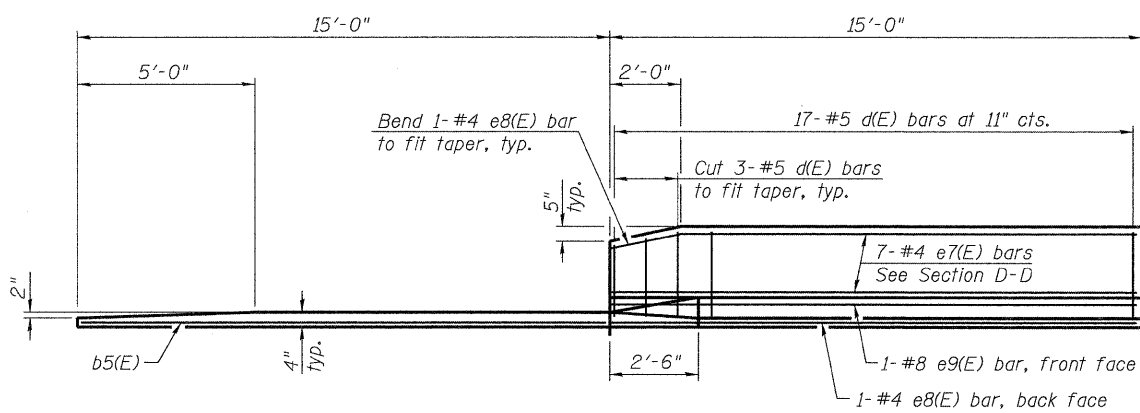
SECTION D-D

(See Plan for dimensions not shown)

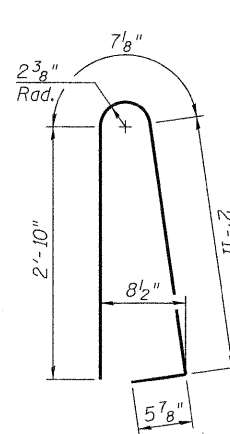
AT APPROACH FOOTING

* Tilt #9 b4(E) bars as required to maintain clearance.

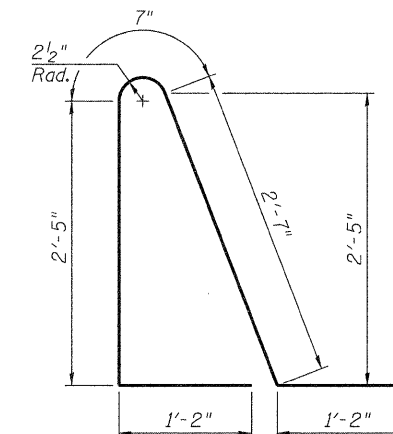
*** Cost included with Concrete Superstructure.



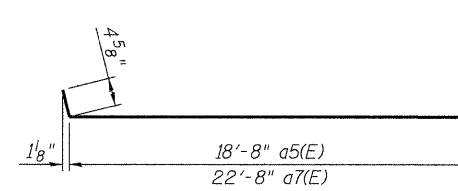
VIEW E-E



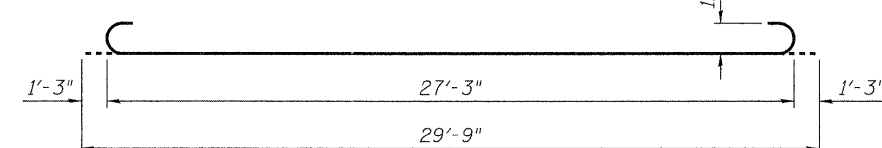
BAR d(E)



BAR d2(E)



BARS a5(E) AND a7(E)



BAR b4(E)

NOTES:

1. See sheet S15 of S41 for Detail A and View B-B.
2. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
3. Approach footing concrete shall be paid for as Concrete Structures.
4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
5. For v(E) bar details, see sheets S13 and S14 of S41.
6. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
7. For bar splicer details, see sheet S25 of S41.
8. Cost of excavation for approach footing included with Concrete Structures.
9. For Porous Granular Embankment (Special) and drainage treatment details, see sheet S2 of S41.
10. For additional parapet details, see sheet S13 of S41.

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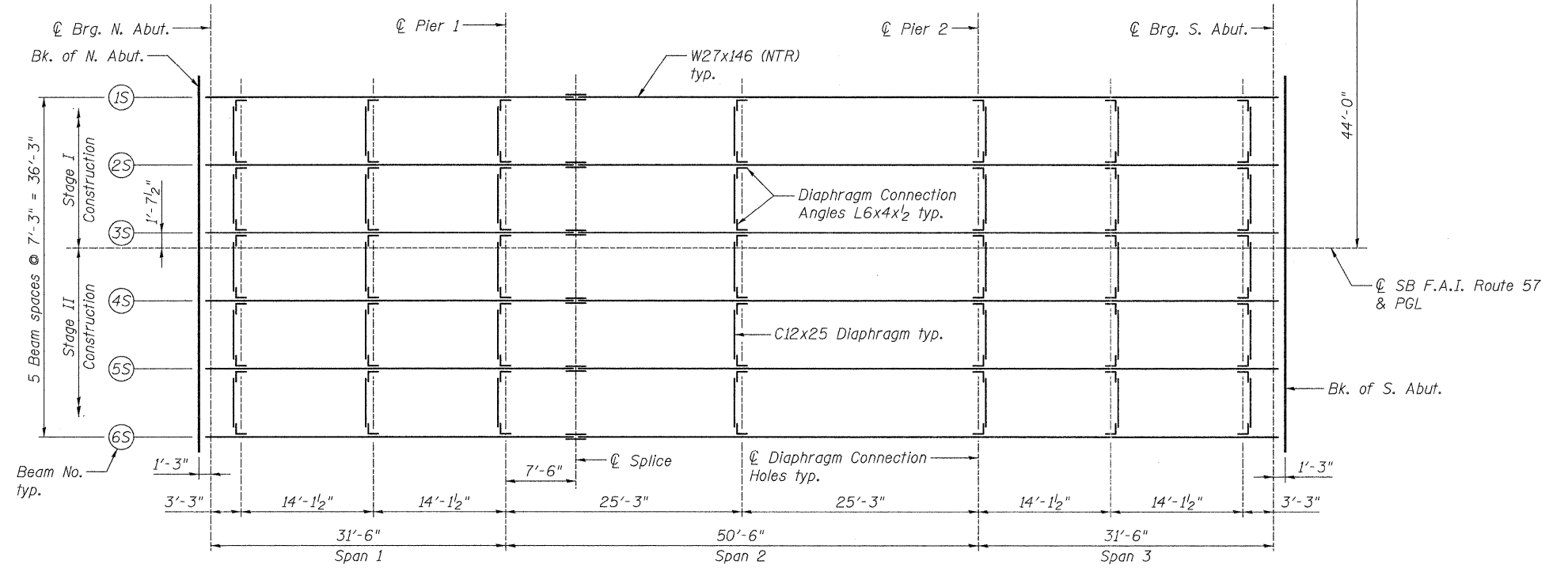
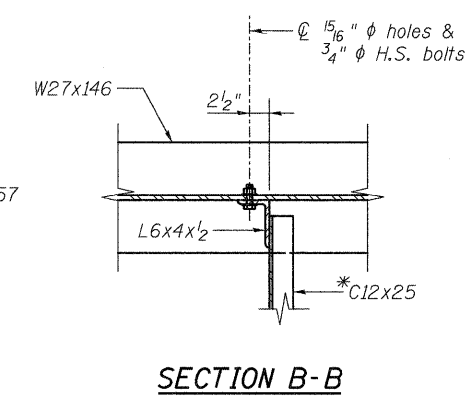
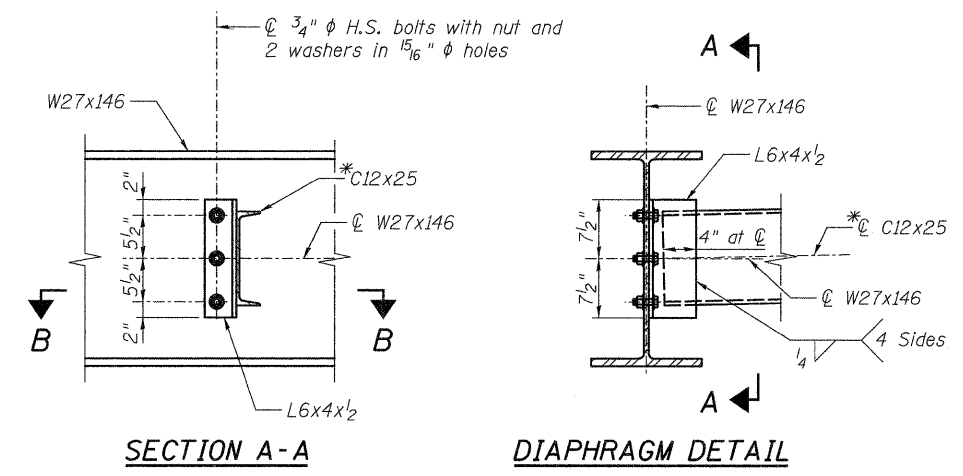
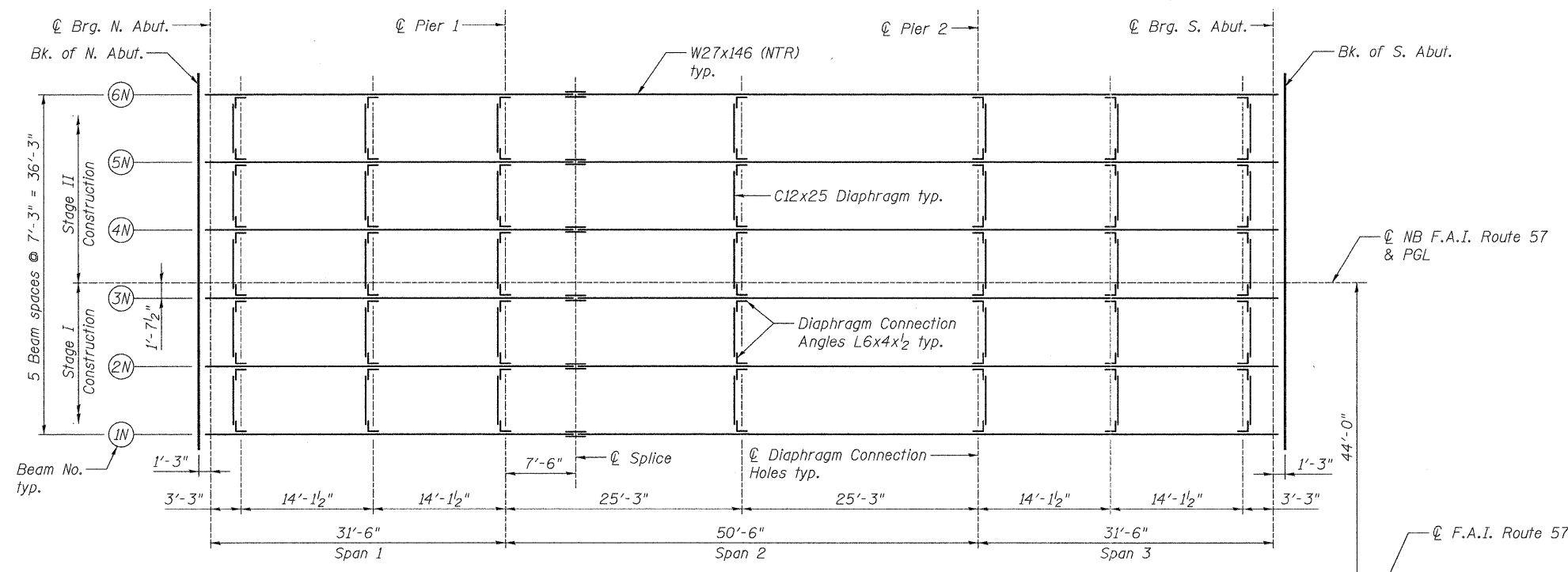
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**BRIDGE APPROACH SLAB DETAILS (2 OF 2)
STRUCTURE NO. 038-02220223**

SHEET NO. S16 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-B) BR & BR-1	IROQUOIS	73	31
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

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FRAMING PLAN

- NOTES:**
- Two hardened washers required for each set of oversized holes.
 - *Alternate channels (C12x30) are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
 - All diaphragms shall be installed as steel is erected and secured with erection diaphragms and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 - Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
 - Work this sheet with sheets S18 and S19 of S41.

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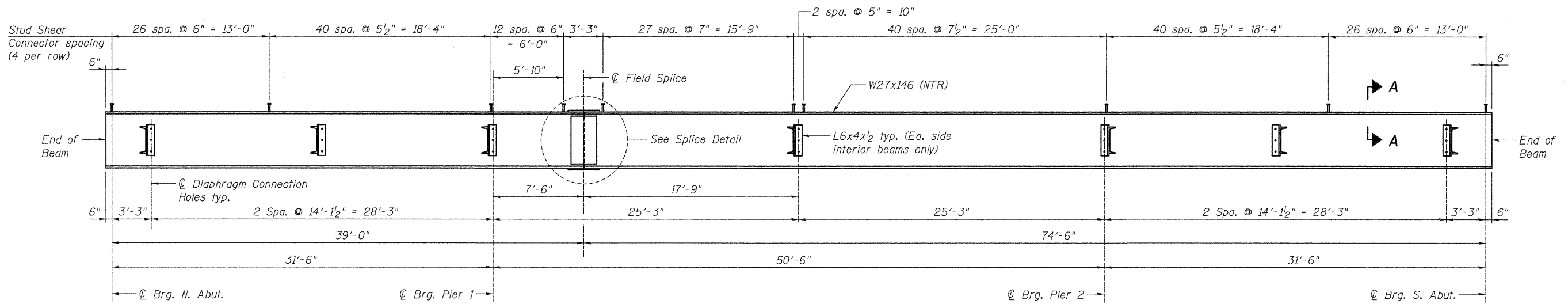
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**FRAMING PLAN
STRUCTURE NO. 038-0222/0223**

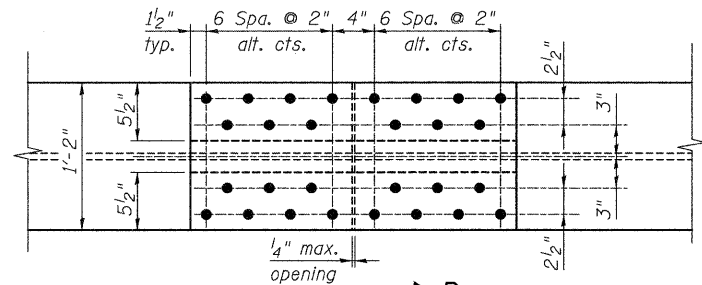
SHEET NO. S17 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	32
				CONTRACT NO. 66948
ILLINOIS FED. AID PROJECT				

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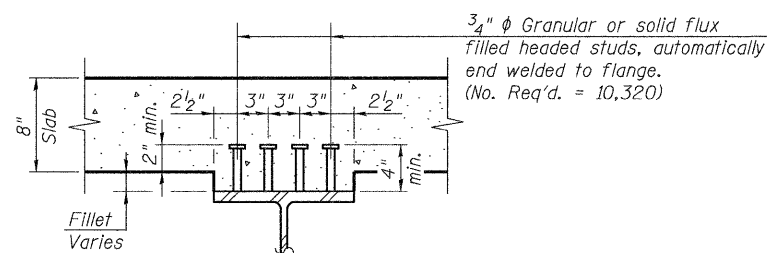


BEAM ELEVATION

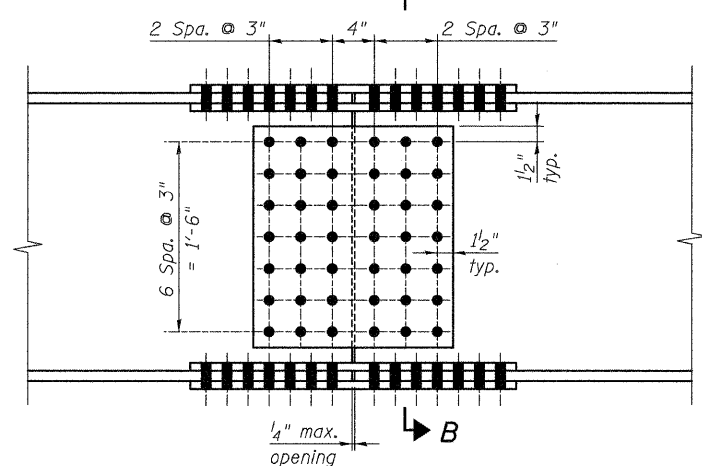


SPICE DETAIL

NOTE:
Work this sheet with sheets S17 and S19 of S41.



SECTION A-A



SECTION B-B

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Span 2
I_s	(in ⁴)	5660	5660	5660
$I_c(n)$	(in ⁴)	16813	8105	16813
$I_c(3n)$	(in ⁴)	12058	8105	12058
$I_c(cr)$	(in ⁴)	-----	7920	-----
S_s	(in ³)	414	414	414
$S_c(n)$	(in ³)	638	744	638
$S_c(3n)$	(in ³)	572	744	572
$S_c(cr)$	(in ³)	-----	726	-----
DC1	(k/')	0.915	0.915	0.915
M _{DC1}	(k)	41	169	123
DC2	(k/')	0.173	0.173	0.173
M _{DC2}	(k)	8	32	23
DW	(k/')	0.333	0.333	0.333
M _{DW}	(k)	15	62	44
M _{l + IM}	(k)	327	371	428
M _u (Strength I)	(k)	656	994	998
$\phi_r M_n$	(k)	3025	2562	3025
f_s DC1	(ksi)	1.2	4.9	3.6
f_s DC2	(ksi)	0.2	0.5	0.5
f_s DW	(ksi)	0.3	1.0	0.9
f_s (l + IM)	(ksi)	6.1	6.1	8.0
f_s (Service II)	(ksi)	9.7	14.4	15.4
0.95R _h F _{yr}	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	-----	-----	-----
$\phi_r F_n$	(ksi)	-----	-----	-----
V _r	(k)	34.4	44.1	34.1

INTERIOR GIRDER REACTION TABLE			
	Abut.	Pier	
R _{DC1}	(k)	16.0	42.9
R _{DC2}	(k)	1.7	8.1
R _{DW}	(k)	3.3	15.6
R _{l + IM}	(k)	55.7	91.4
R _{Total}	(k)	76.7	158.0

*TOP OF BEAM ELEVATIONS						
Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
© Brg. N. Abut.	703.50	703.63	703.75	703.68	703.57	703.41
© Brg. Pier 1	703.49	703.62	703.74	703.67	703.56	703.41
© Splice	703.48	703.61	703.72	703.66	703.54	703.39
© Brg. Pier 2	703.45	703.58	703.69	703.63	703.51	703.36
© Brg. S. Abut.	703.40	703.54	703.65	703.59	703.47	703.32

*For Fabrication Only

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{l + IM}: Un-factored live load moment plus dynamic load allowance (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).

1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{l + IM}

$\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (l + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).

M_{l + IM} / S_{c(n)} or M_{l + IM} / S_{c(cr)} as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).

f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (l + IM)

0.95R_hF_{yr}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (l + IM)

$\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 (ksi).

V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

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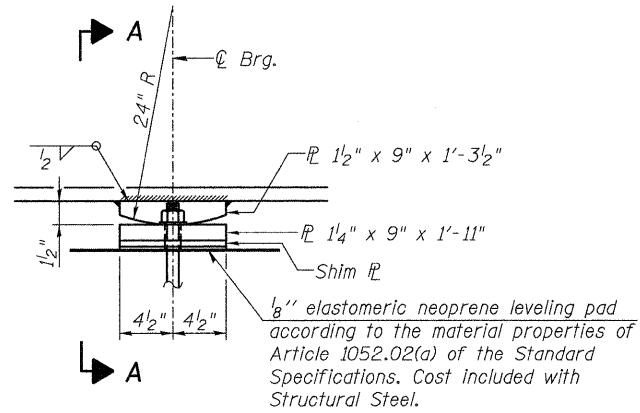
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PLOT DATE = 08/18/2011	CHECKED - KJN		REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS
STRUCTURE NO. 038-0222/0223**
SHEET NO. S18 OF S41 SHEETS

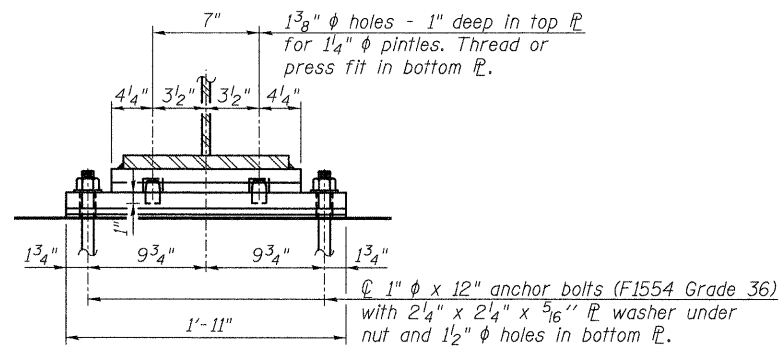
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROUOIS	73	33
CONTRACT NO. 66948				
ILLINOIS FED. AID PROJECT				

x:\3900s\3938\structures\1-57 overspringcreek\final\plans\0380222&0223.66948.018.stldet.dgn 08/18/2011

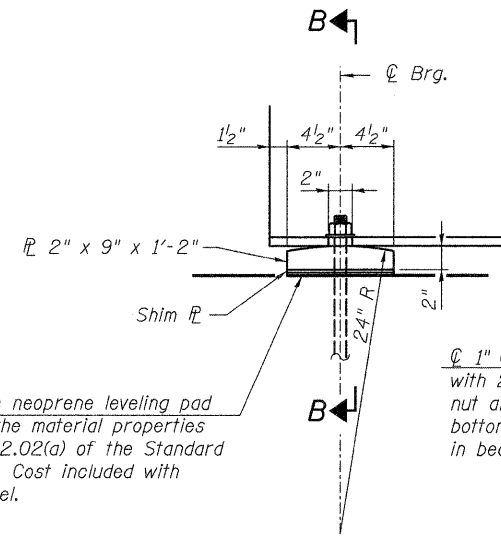


ELEVATION

FIXED BEARING AT PIER

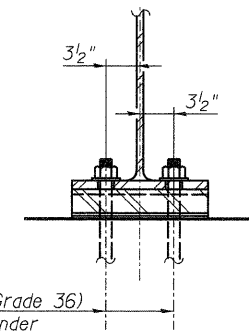


SECTION A-A

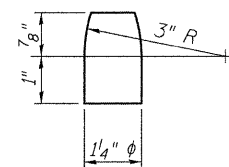


ELEVATION

FIXED BEARING AT ABUTMENT



SECTION B-B



PINTLE

NOTES:

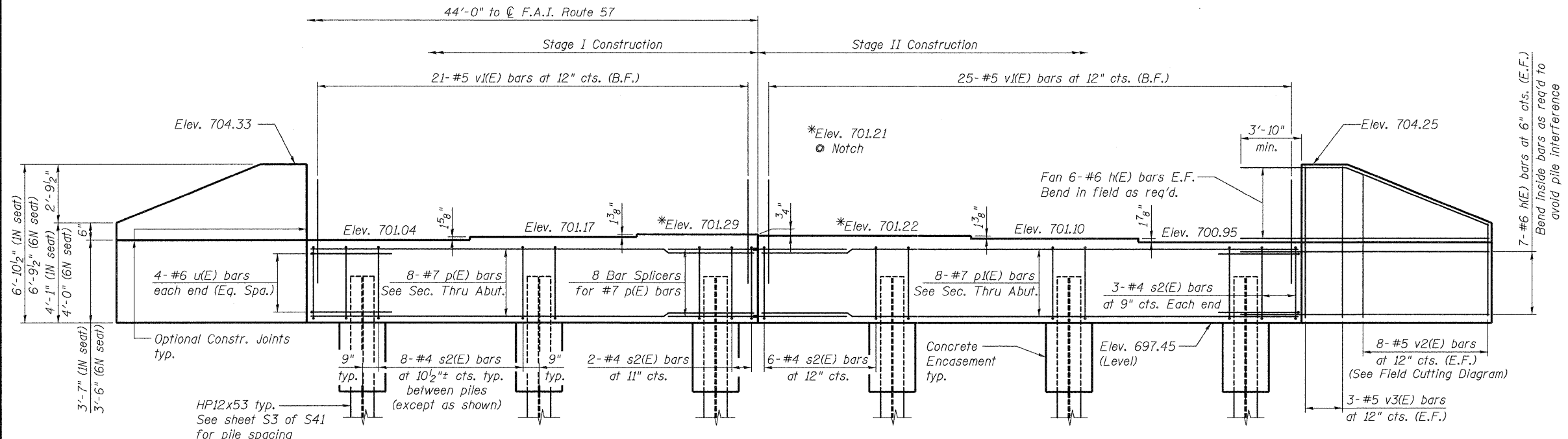
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Steel members required for the bearing assembly shall be included in the cost of Structural Steel.
- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- Work this sheet with sheets S14, S17, S18 and S20 through S23 of S41.

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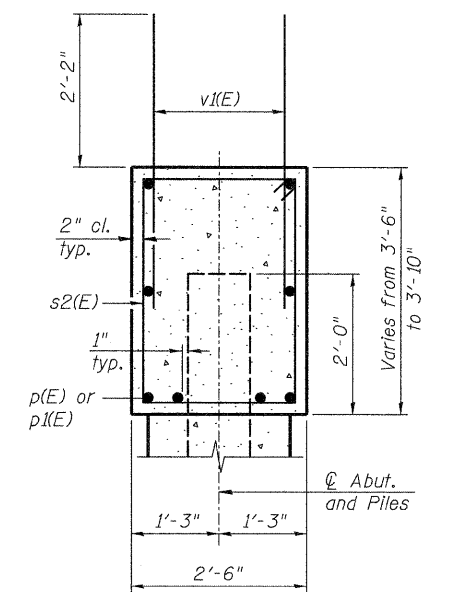
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0380222&0223_66948_019_brgdet.dgn	PLOT SCALE =	CHECKED - AAY	REVISED -			57	(38-8) BR & BR-1	IROQUOIS	73	34
PLOT DATE = 06/18/2011	CHECKED - KJN	DRAWN - RMG	REVISED -			CONTRACT NO. 66948				
						ILLINOIS FED. AID PROJECT				

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ELEVATION

(Looking North)
(NB N. Abut. shown, SB N. Abut. Opposite Hand)



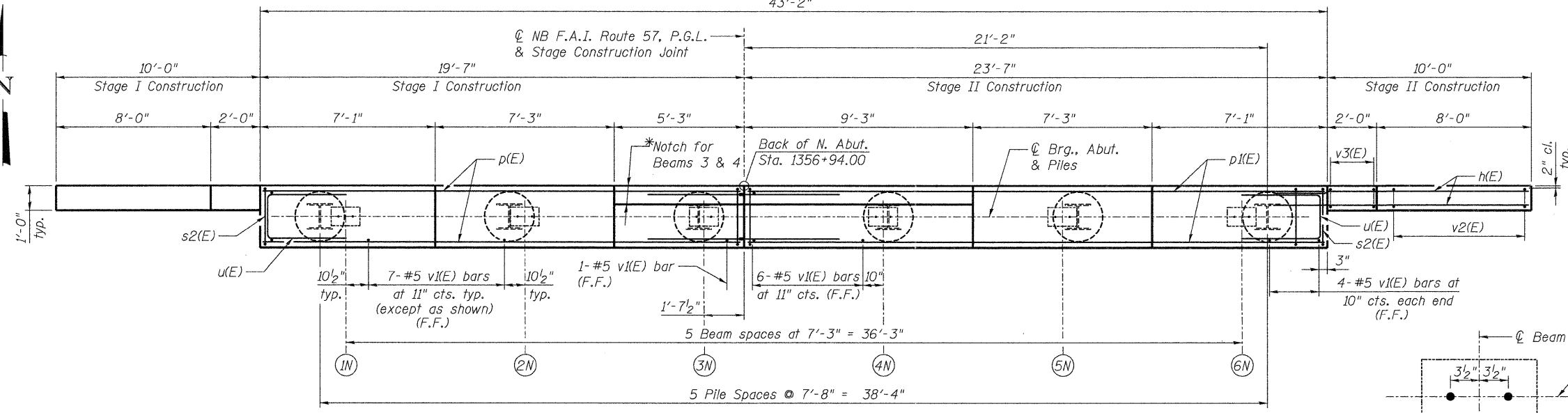
SECTION THRU ABUT.

(Notch at Beams 3 and 4 not shown. See Sec. B-B on sheet S14 of S41 for notch details.)

TWO ABUTMENTS

BILL OF MATERIAL

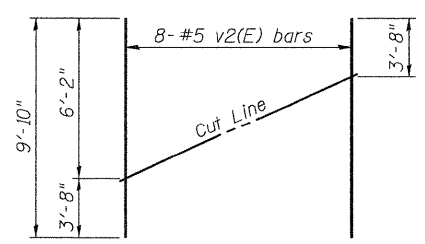
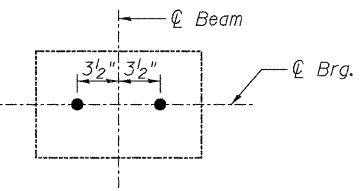
Bar	No.	Size	Length	Shape
h(E)	104	#6	14'-2"	—
p(E)	16	#7	19'-5"	—
p1(E)	16	#7	23'-5"	—
s2(E)	92	#4	11'-5"	□
u(E)	16	#6	9'-9"	—
v1(E)	178	#5	4'-4"	—
v2(E)	32	#5	9'-10"	—
v3(E)	24	#5	6'-6"	—
Structure Excavation			Cu. Yd.	166
Concrete Structures			Cu. Yd.	37.8
Reinforcement Bars, Epoxy Coated			Pound	5,850
Furnishing Steel Piles, HP12x53			Foot	154
Driving Piles			Foot	154
Test Pile Steel, HP12x53			Each	1
Pile Shoes			Each	12
Concrete Encasement			Cu. Yd.	4.2



PLAN

(NB N. Abut. shown, SB N. Abut. Opposite Hand)

ANCHOR BOLT LAYOUT DETAIL



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)

NOTES:

- Four steps monolithically with cap.
- E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.
- For details of Bar Splicers, see sheet S25 of S41.
- For details of piles and concrete encasement, see sheet S24 of S41.

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FILE NAME =	USER NAME = rgrimm	DESIGNED - JLS	REVISED -
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	PLOT DATE = 08/18/2011	DRAWN - RMG	REVISED -
		CHECKED - KJN	REVISED -

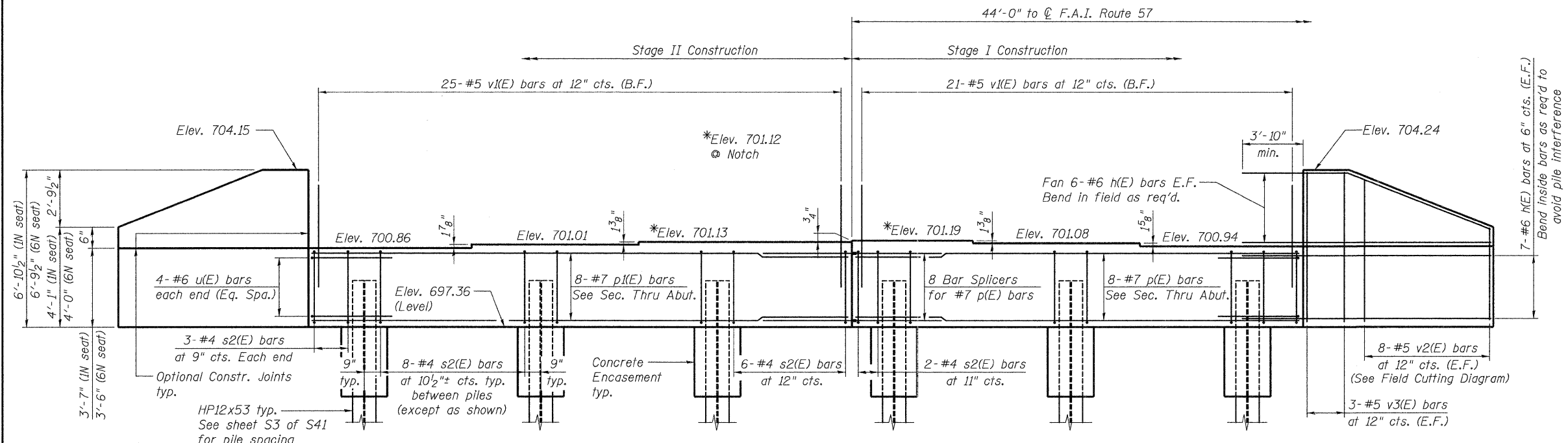
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 038-02220223

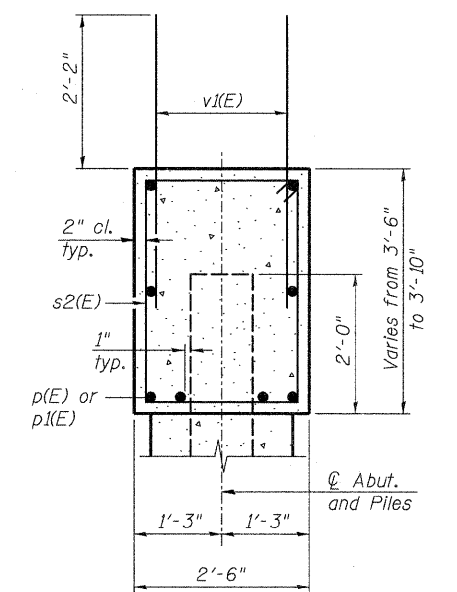
SHEET NO. S20 OF S41 SHEETS

F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 35
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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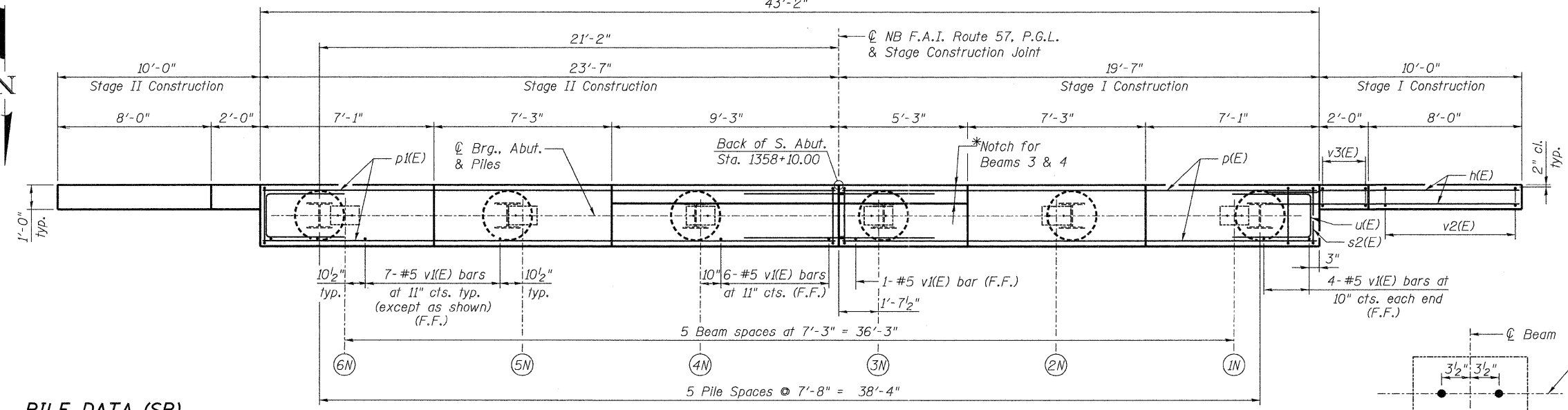
ELEVATION
(Looking South)
(NB S. Abut. shown, SB S. Abut. Opposite Hand)



SECTION THRU ABUT.
(Notch at Beams 3 and 4 not shown. See Sec. B-B on sheet S14 of S41 for notch details.)

**TWO ABUTMENTS
BILL OF MATERIAL**

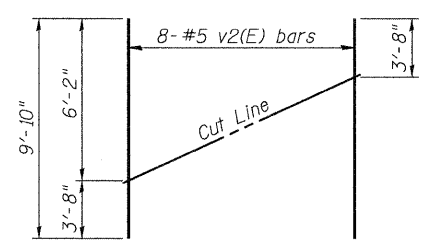
Bar	No.	Size	Length	Shape
h(E)	104	#6	14'-2"	—
p(E)	16	#7	19'-5"	—
p1(E)	16	#7	23'-5"	—
s2(E)	92	#4	11'-5"	□
u(E)	16	#6	9'-9"	—
v1(E)	178	#5	4'-4"	—
v2(E)	32	#5	9'-10"	—
v3(E)	24	#5	6'-6"	—
Structure Excavation			Cu. Yd.	166
Concrete Structures			Cu. Yd.	37.8
Reinforcement Bars, Epoxy Coated			Pound	5,850
Furnishing Steel Piles, HP12x53			Foot	185
Driving Piles			Foot	185
Test Pile Steel, HP12x53			Each	1
Pile Shoes			Each	12
Concrete Encasement			Cu. Yd.	4.2



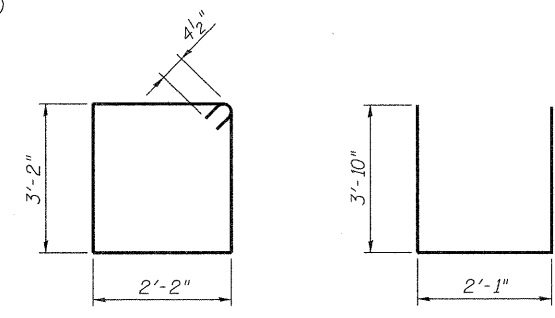
PLAN
(NB S. Abut. shown, SB S. Abut. Opposite Hand)

PILE DATA (SB)
Type: HP12x53 with pile shoes
Nominal Required Bearing: 179 kips
Factored Resistance Available: 98 kips
Est. Length: 15 feet
No. Production Piles: 6
No. Test Piles: 0

PILE DATA (NB)
Type: HP12x53 with pile shoes
Nominal Required Bearing: 178 kips
Factored Resistance Available: 98 kips
Est. Length: 19 feet
No. Production Piles: 5
No. Test Piles: 1



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



ANCHOR BOLT LAYOUT DETAIL
BAR s2(E) **BAR u(E)**

ANCHOR BOLT LAYOUT DETAIL

- NOTES:**
1. Pour steps monolithically with cap.
 2. E.F. denotes Each Face, F.F. denotes Front Face and B.F. denotes Back Face.
 3. For details of Bar Splicers, see sheet S25 of S41.
 4. For details of piles and concrete encasement, see sheet S24 of S41.

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FILE NAME =	USER NAME = rgr:mm	DESIGNED - JLS	REVISED -
0380222&0223.66948.021.sabutdet.dgn		CHECKED - AAY	REVISED -
	PLOT SCALE =	DRAWN - RMG	REVISED -
	PLOT DATE = 08/19/2011	CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT DETAILS
STRUCTURE NO. 038-0222/0223**
SHEET NO. S21 OF S41 SHEETS

F.A.I. RTE. 57	SECTION (38-B) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 36
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

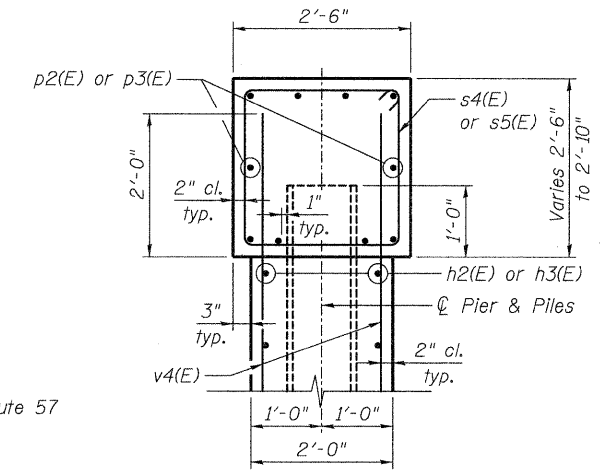
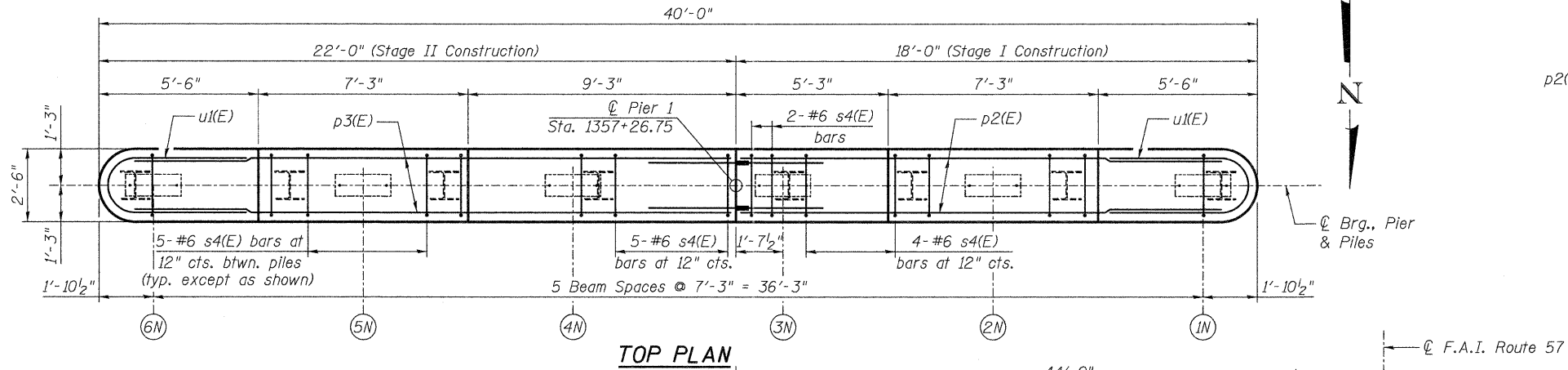
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PILE DATA (SB)

Type: HP12x53 with pile shoes
 Nominal Required Bearing: 296 kips
 Factored Resistance Available: 163 kips
 Est. Length: 36 feet
 No. Production Piles: 7
 No. Test Piles: 1

PILE DATA (NB)

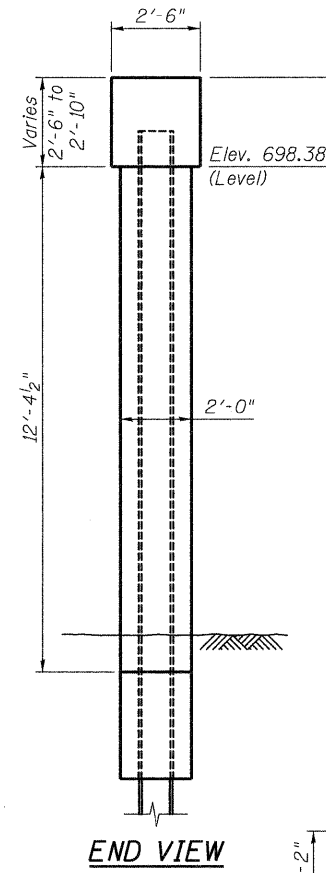
Type: HP12x53 with pile shoes
 Nominal Required Bearing: 295 kips
 Factored Resistance Available: 163 kips
 Est. Length: 36 feet
 No. Production Piles: 7
 No. Test Piles: 1



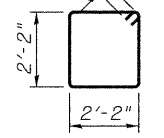
SECTION THRU CAP

**TWO PIERS
BILL OF MATERIAL**

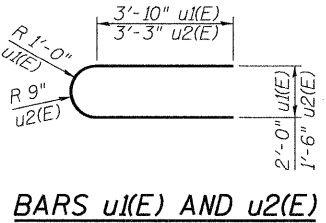
Bar	No.	Size	Length	Shape
h2(E)	52	#5	16'-9"	—
h3(E)	52	#5	20'-9"	—
p2(E)	20	#8	16'-9"	—
p3(E)	20	#8	20'-9"	—
p4(E)	4	#8	4'-11"	—
s4(E)	72	#6	10'-0"	□
u1(E)	16	#6	10'-10"	U
u2(E)	52	#5	8'-10"	U
u3(E)	12	#6	6'-8"	U
v4(E)	164	#5	14'-2"	—
Structure Excavation Cu. Yd. 72				
Concrete Structures Cu. Yd. 89.2				
Reinforcement Bars, Epoxy Coated Pound 8,420				
Furnishing Steel Piles, HP12x53 Foot 504				
Driving Piles Foot 504				
Test Pile Steel, HP12x53 Each 2				
Pile Shoes Each 16				
Underwater Structure Excavation Protection - Location 1 Each 1				
Underwater Structure Excavation Protection - Location 3 Each 1				
Concrete Encasement Cu. Yd. 5.6				



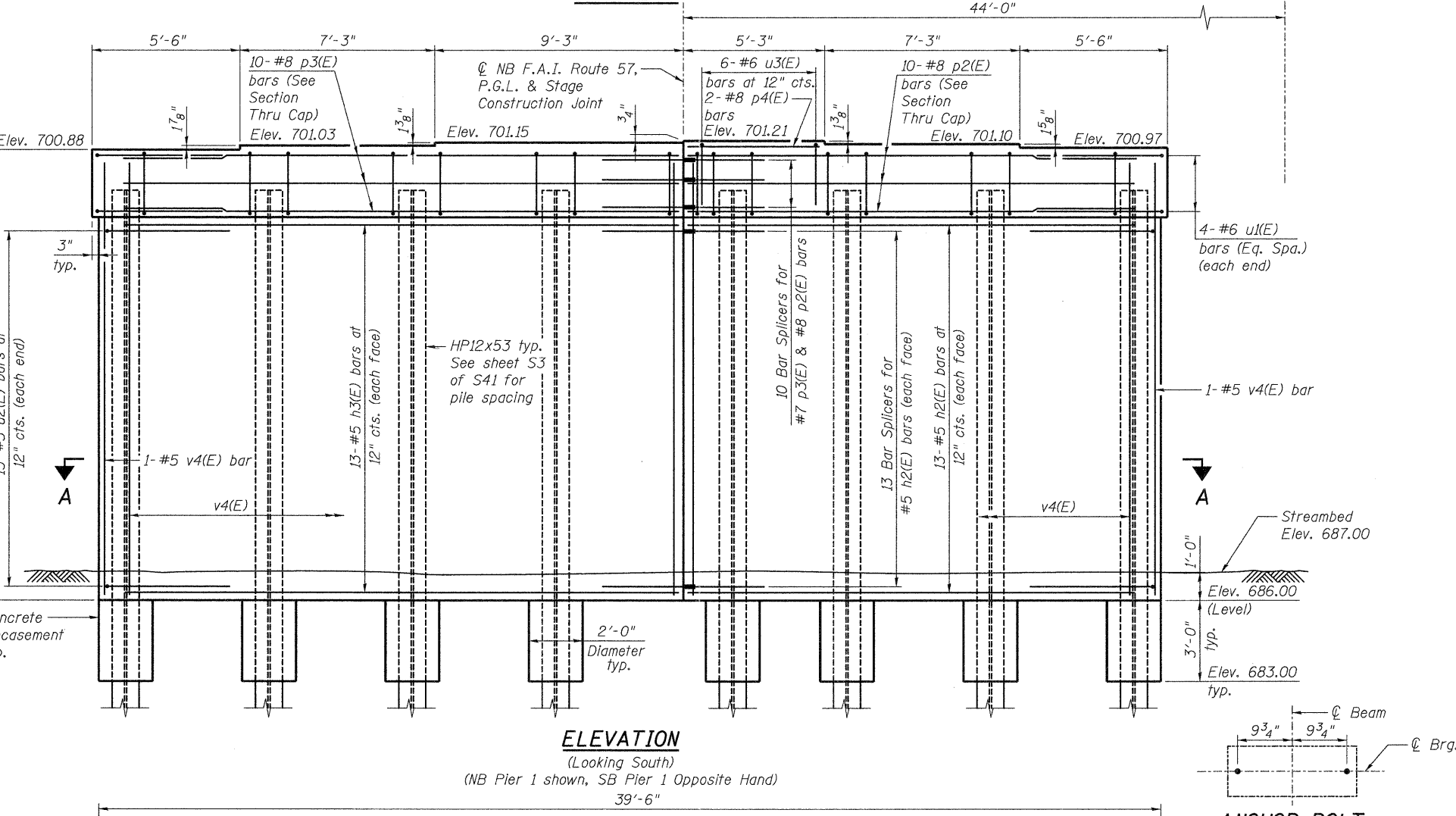
END VIEW



BAR s4(E)

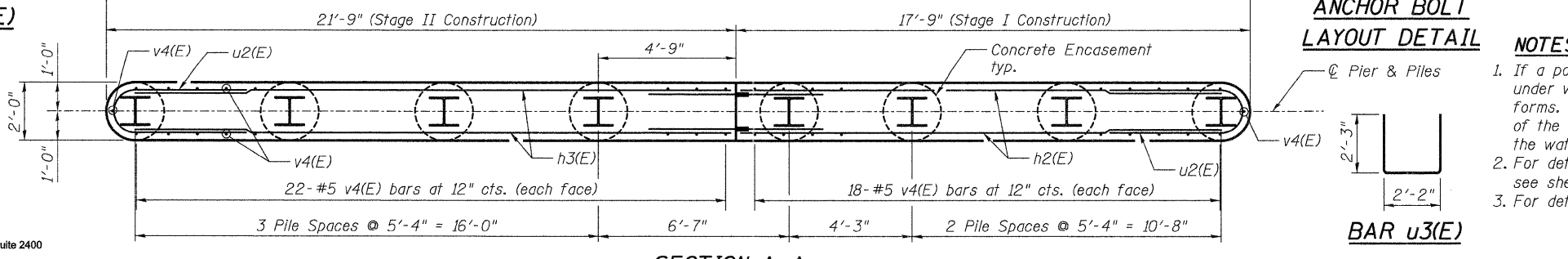


BARS u1(E) AND u2(E)



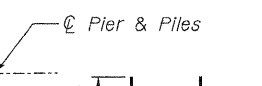
ELEVATION

(Looking South)
 (NB Pier 1 shown, SB Pier 1 Opposite Hand)
 39'-6"



SECTION A-A

ANCHOR BOLT LAYOUT DETAIL



BAR u3(E)

- NOTES:**
- If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at time of construction.
 - For details of piles and reinforcement of Concrete Encasement, see sheet S24 of S41.
 - For details of Bar Splicers, see sheet S25 of S41.

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FILE NAME =	USER NAME = rgrimm	DESIGNED - JLS	REVISED -
0380222&0223_66948_022_pier1det.dgn	PLOT SCALE =	CHECKED - AAY	REVISED -
	PLOT DATE = 08/18/2011	DRAWN - RMG	REVISED -
		CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 1 DETAILS
STRUCTURE NO. 038-02220223
SHEET NO. S22 OF S41 SHEETS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	37
				CONTRACT NO. 66948
ILLINOIS FED. AID PROJECT				

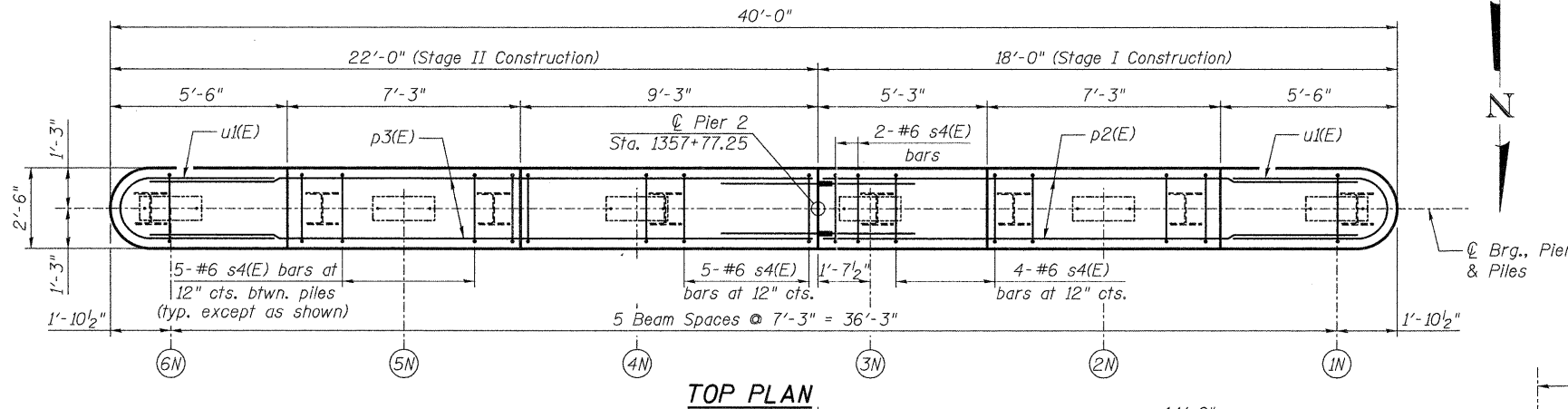
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PILE DATA (SB)

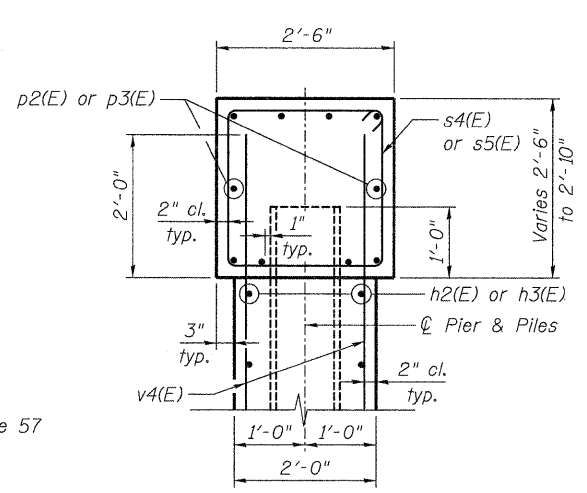
Type: HP12x53 with pile shoes
 Nominal Required Bearing: 296 kips
 Factored Resistance Available: 163 kips
 Est. Length: 36 feet
 No. Production Piles: 7
 No. Test Piles: 1

PILE DATA (NB)

Type: HP12x53 with pile shoes
 Nominal Required Bearing: 295 kips
 Factored Resistance Available: 163 kips
 Est. Length: 36 feet
 No. Production Piles: 7
 No. Test Piles: 1



TOP PLAN

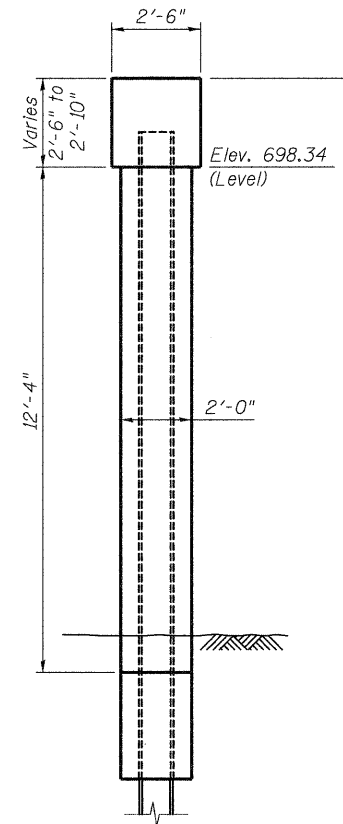


SECTION THRU CAP

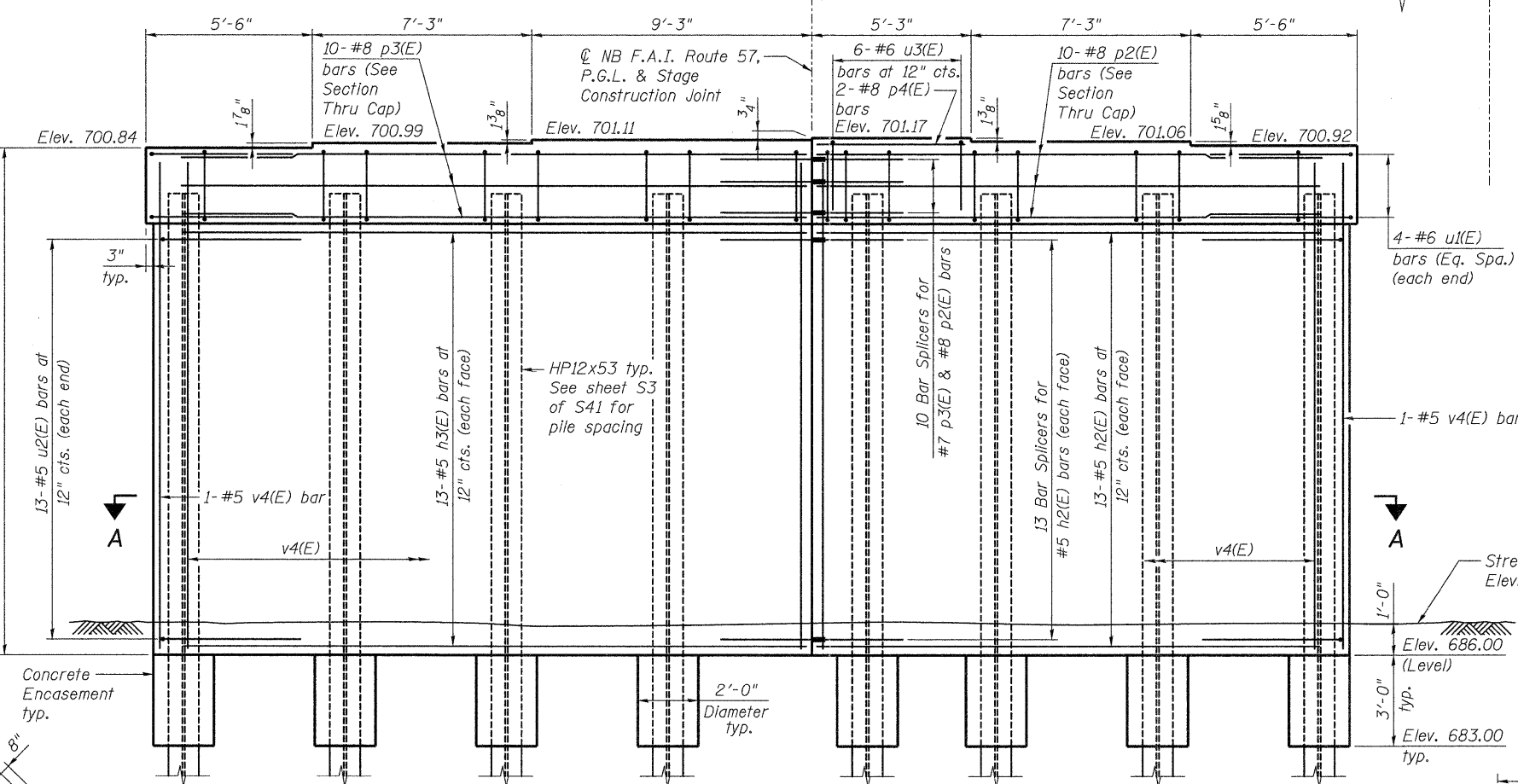
**TWO PIERS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h2(E)	52	#5	16'-9"	—
h3(E)	52	#5	20'-9"	—
p2(E)	20	#8	16'-9"	—
p3(E)	20	#8	20'-9"	—
p4(E)	4	#8	4'-11"	—
s4(E)	72	#6	10'-0"	□
u1(E)	16	#6	10'-10"	U
u2(E)	52	#5	8'-10"	U
u3(E)	12	#6	6'-8"	U
v4(E)	164	#5	14'-2"	—

Structure Excavation	Cu. Yd.	68
Concrete Structures	Cu. Yd.	89.0
Reinforcement Bars, Epoxy Coated	Pound	8,420
Furnishing Steel Piles, HP12x53	Foot	504
Driving Piles	Foot	504
Test Pile Steel, HP12x53	Each	2
Pile Shoes	Each	16
Underwater Structure Excavation Protection - Location 2	Each	1
Underwater Structure Excavation Protection - Location 4	Each	1
Concrete Encasement	Cu. Yd.	5.6

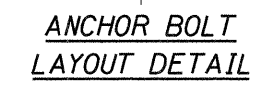


END VIEW

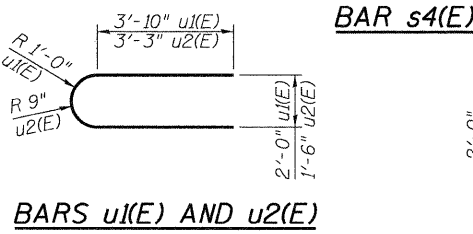


ELEVATION

(Looking South)
 (NB Pier 2 shown, SB Pier 2 Opposite Hand)
 39'-6"

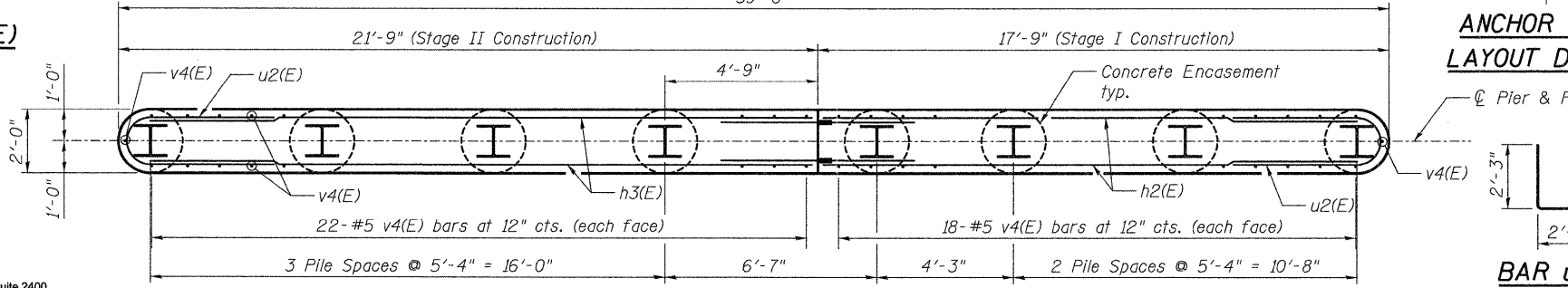


ANCHOR BOLT LAYOUT DETAIL



BARS u1(E) AND u2(E)

BAR s4(E)



SECTION A-A

BAR u3(E)

NOTES:

- If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at time of construction.
- For details of piles and reinforcement of Concrete Encasement, see sheet S24 of S41.
- For details of Bar Splicers, see sheet S25 of S41.

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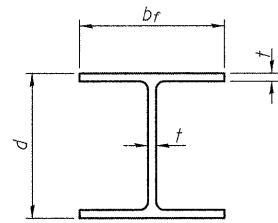
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	PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2 DETAILS
STRUCTURE NO. 038-0222/0223**
 SHEET NO. S23 OF S41 SHEETS

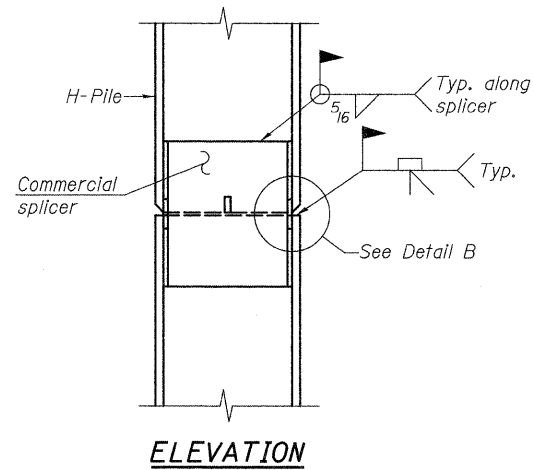
F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 38
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

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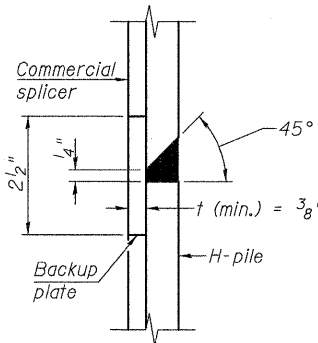


STEEL PILE TABLE

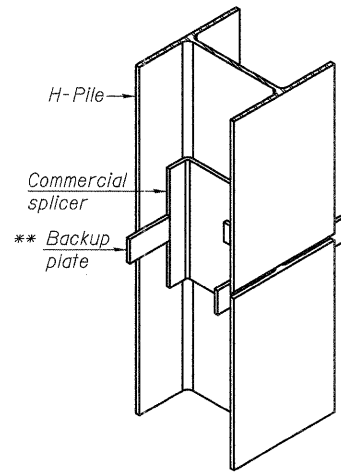
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

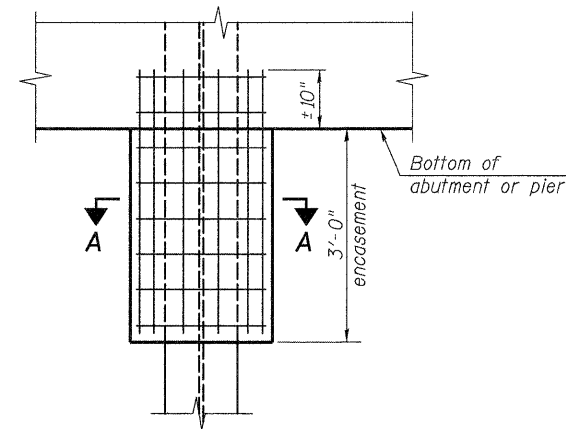


DETAIL "B"



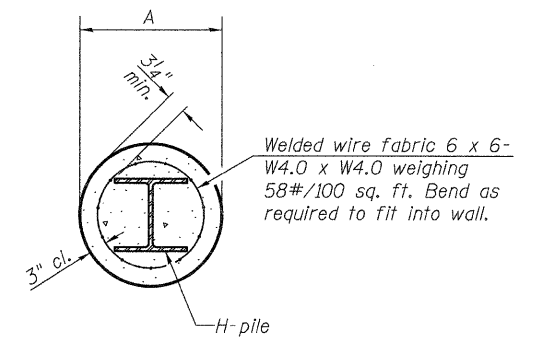
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



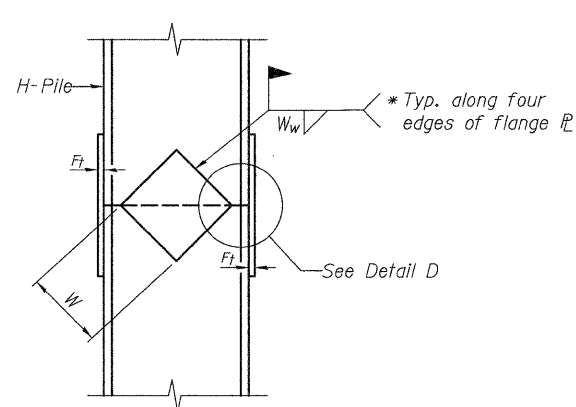
ELEVATION

PILE ENCASEMENT

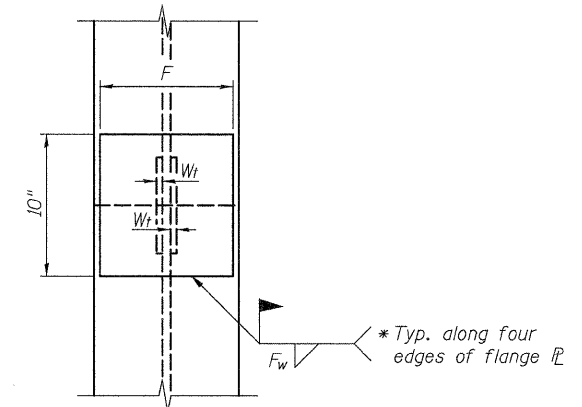


SECTION A-A

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



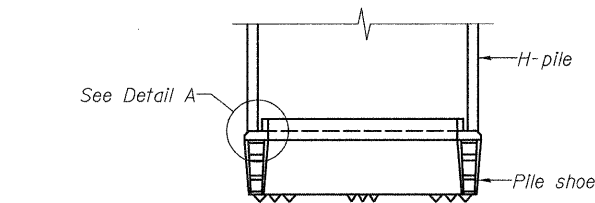
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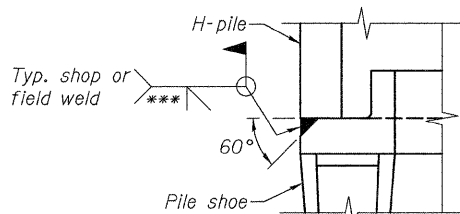
END VIEW

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

WELDED PLATE FIELD SPLICE

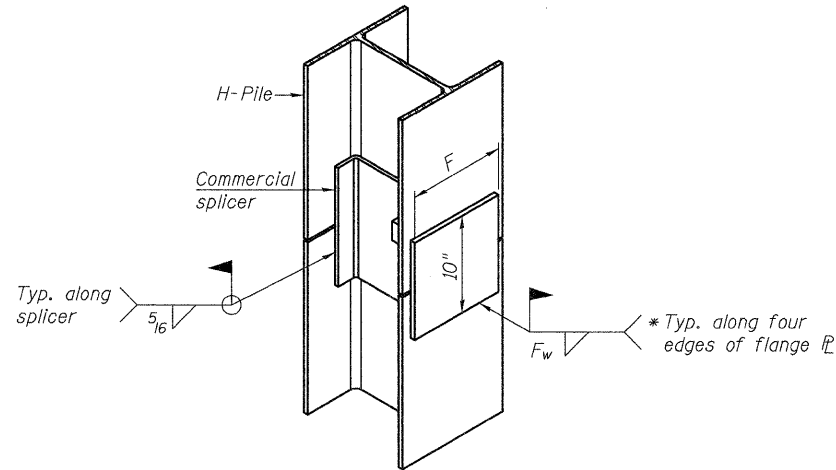


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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.

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F-HP

7-1-10

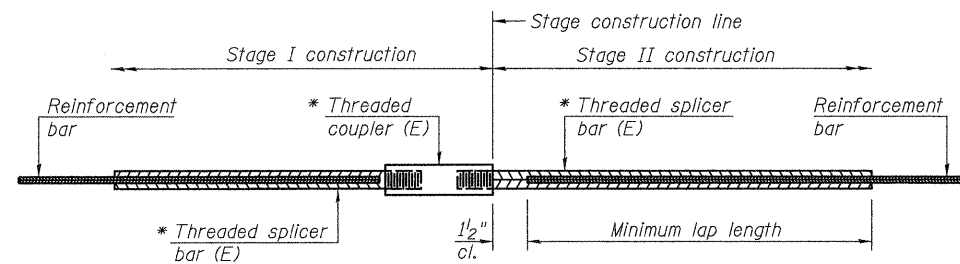
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	PLOT DATE = 08/18/2011	DRAWN - RMG	REVISED -
		CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 038-0222/0223**

SHEET NO. S24 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	39
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

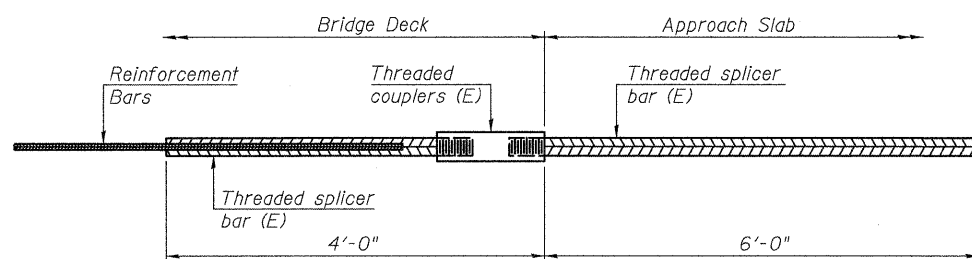
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- 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

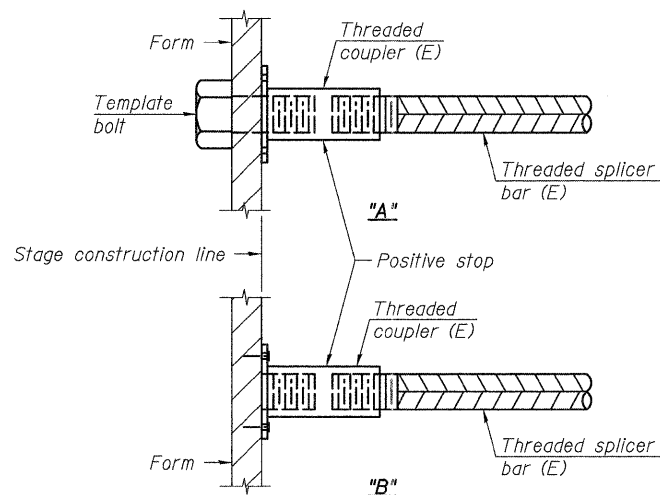
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	820	3'-3"
Abut. Diaphragm	#6	32	3'-4"
Approach Slab	#4	100	2'-3"
Approach Slab	#5	184	2'-7"
Approach Footing	#5	160	2'-7"
Abutment	#7	32	4'-8"
Pier Cap	#8	32	6'-2"
Pier Cap	#7	8	4'-8"
Pier Wall	#5	104	2'-10"



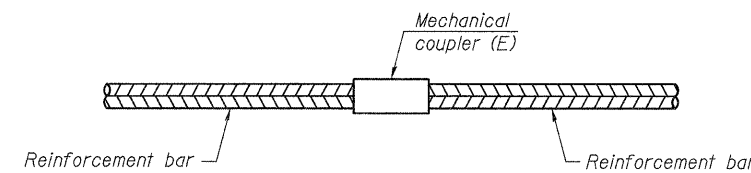
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 184



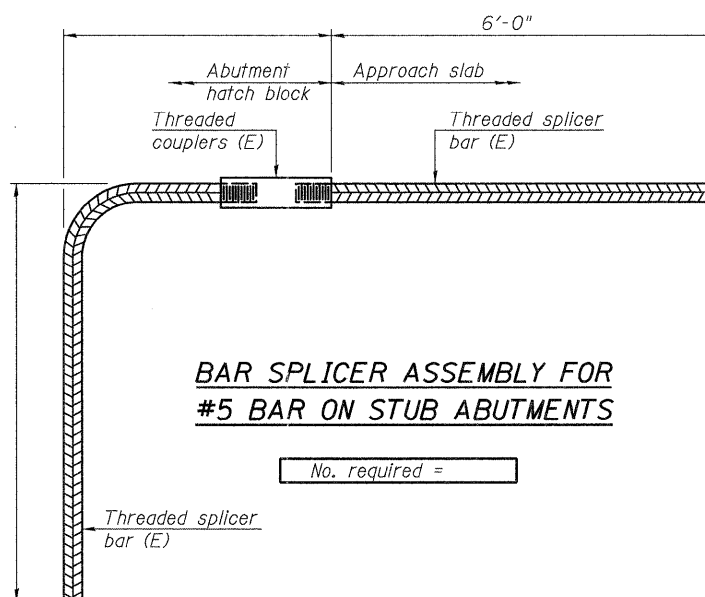
INSTALLATION AND SETTING METHODS

- "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 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.

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BSD-1

7-1-10

FILE NAME =	USER NAME = rgrimm	DESIGNED - JLS	REVISED -
0380222&0223.66948.025-splicerdet.dgn	PLOT SCALE =	CHECKED - AAY	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

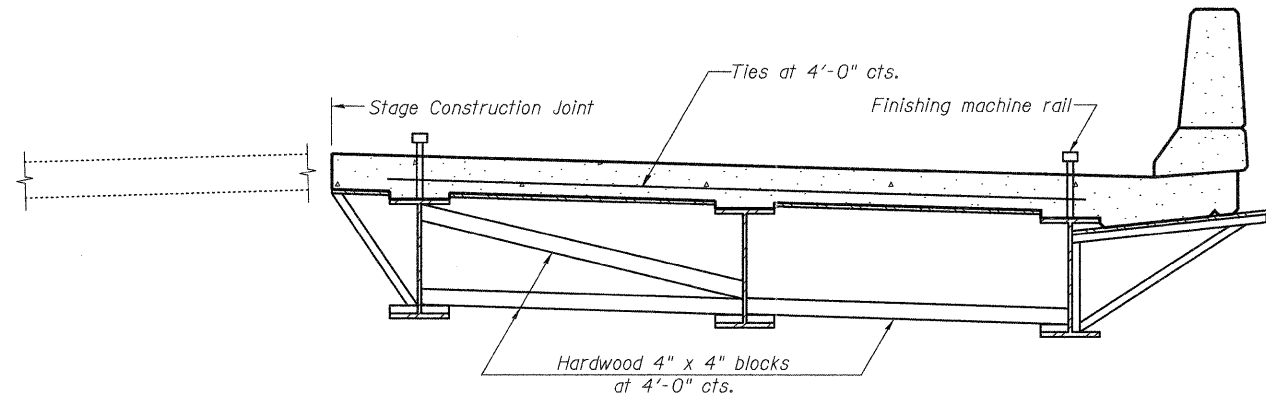
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 038-0222/0223

SHEET NO. S25 OF S41 SHEETS

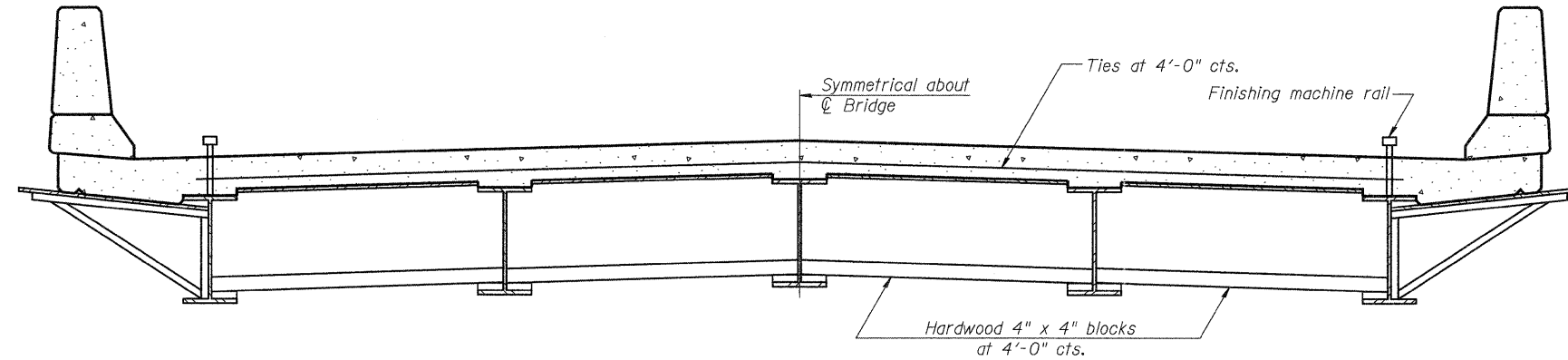
F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 40
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.
 The finishing machine rails shall be placed on the top flange of the exterior beams.
 The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.
 For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR
STAGE CONSTRUCTION**



**FORM BRACES FOR
STANDARD CONSTRUCTION**



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SB-1

7-1-10

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	PLOT SCALE =	DRAWN - RMG	REVISED -
	PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER STRUCTURE NO. 038-0222/0223**

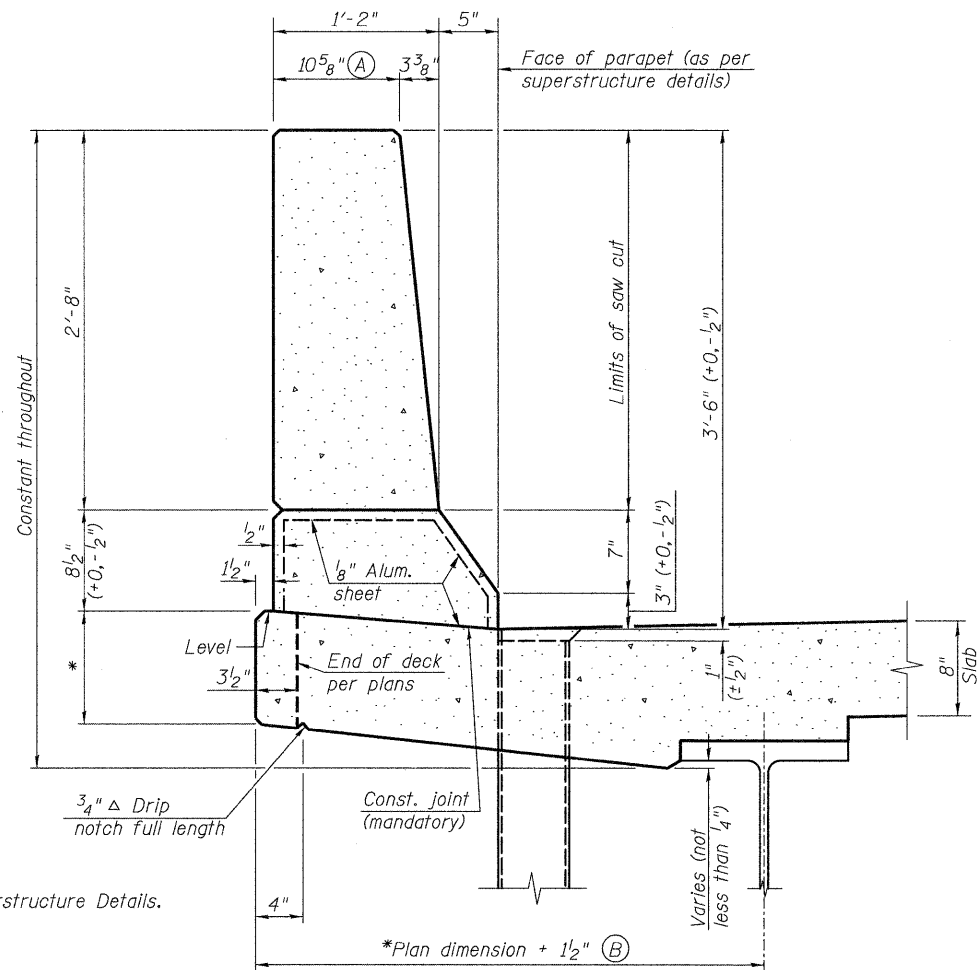
SHEET NO. S26 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	41
				CONTRACT NO. 66948
ILLINOIS FED. AID PROJECT				

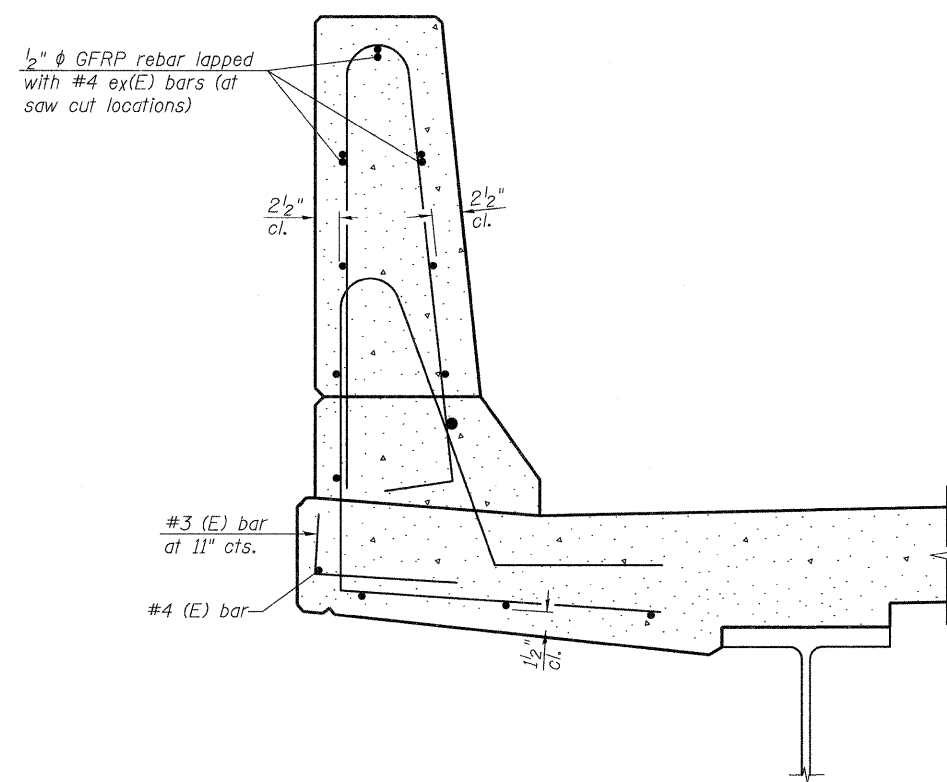
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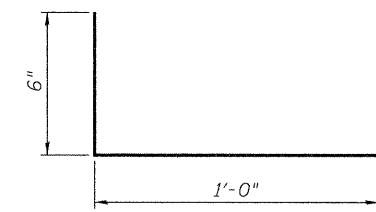


SECTION
(Showing dimensions)

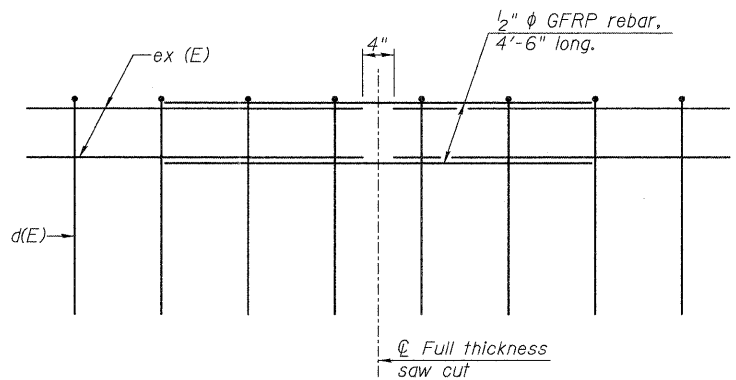


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES
 All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0273 cu. yds./ft. of parapet.
 Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.
 Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

* See Superstructure Details.

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FILE NAME =	USER NAME = rgr:mm	DESIGNED - JLS	REVISED -
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	PLOT SCALE =	DRAWN - RMG	REVISED -
	PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 038-0222/0223

SHEET NO. S27 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	42
			CONTRACT NO. 66948	
(ILLINOIS) FED. AID PROJECT				

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BRIDGE FOUNDATION BORING LOG

PROJECT I-57-6 BRIDGE F.A.I. Route 57 Date March 4, 1965
ROUTE F.A.I. 57 over Spring Creek Bored By C. I. Bassing
SEC 38-8B STA 1357+52 Checked By J. E. Safranski

Table with columns: Elevation, N, Qu t/s.f., w (%), Surface Water El., Groundwater El. at Completion, After Hours, and soil descriptions like Hard Gray CLAY (Till), Very Stiff Gray CLAY (Till)*, etc.

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu - Unconfined Compressive Strength - t/sf w - Water Content - percentage of oven dry weight - %

Type failure: B - Bulge Failure S - Shear Failure E - Estimated Value P - Penetrometer

BRIDGE FOUNDATION BORING LOG

PROJECT I-57-6 BRIDGE FAI Route 57 Date March 4, 1965
ROUTE F.A.I. 57 over Spring Creek Bored By C. I. Bassing
SEC 38-8 B STA 1357+52 Checked By J. E. Safranski

Table with columns: Elevation, N, Qu t/s.f., w (%), Surface Water El., Groundwater El. at Completion, After Hours, and soil descriptions like Stiff Gray CLAY (Till), Hard Olive - Gray CLAY LOAM (Till), etc.

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu - Unconfined Compressive Strength - t/sf w - Water Content - percentage of oven dry weight - %

Type failure: B - Bulge Failure S - Shear Failure E - Estimated Value P - Penetrometer

BRIDGE FOUNDATION BORING LOG

PROJECT I-57-6 BRIDGE FAI Route 57 Date March 10, 1965
ROUTE FAI 57 over Spring Creek Bored By C. I. Bassing
SEC 38-8B STA 1357+52 Checked By J. E. Safranski

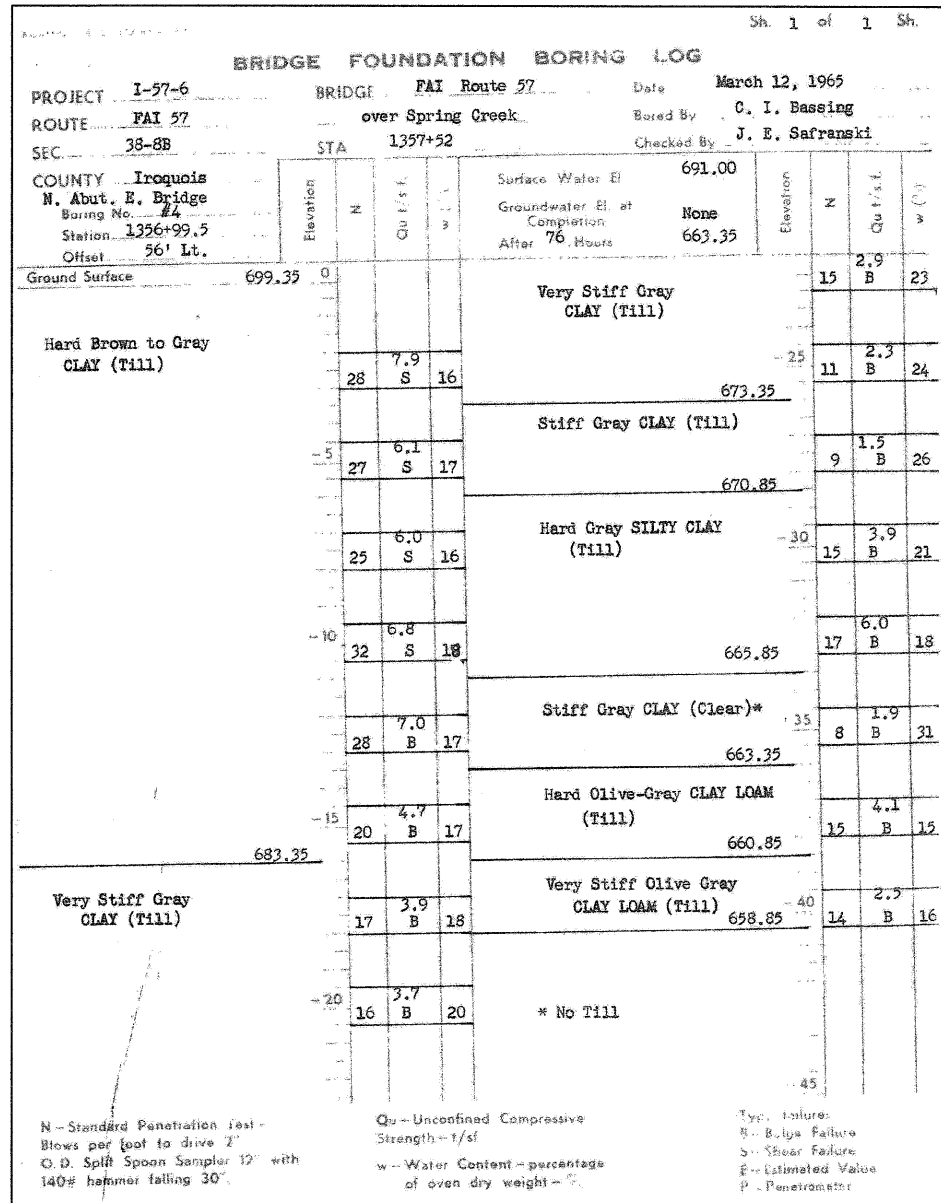
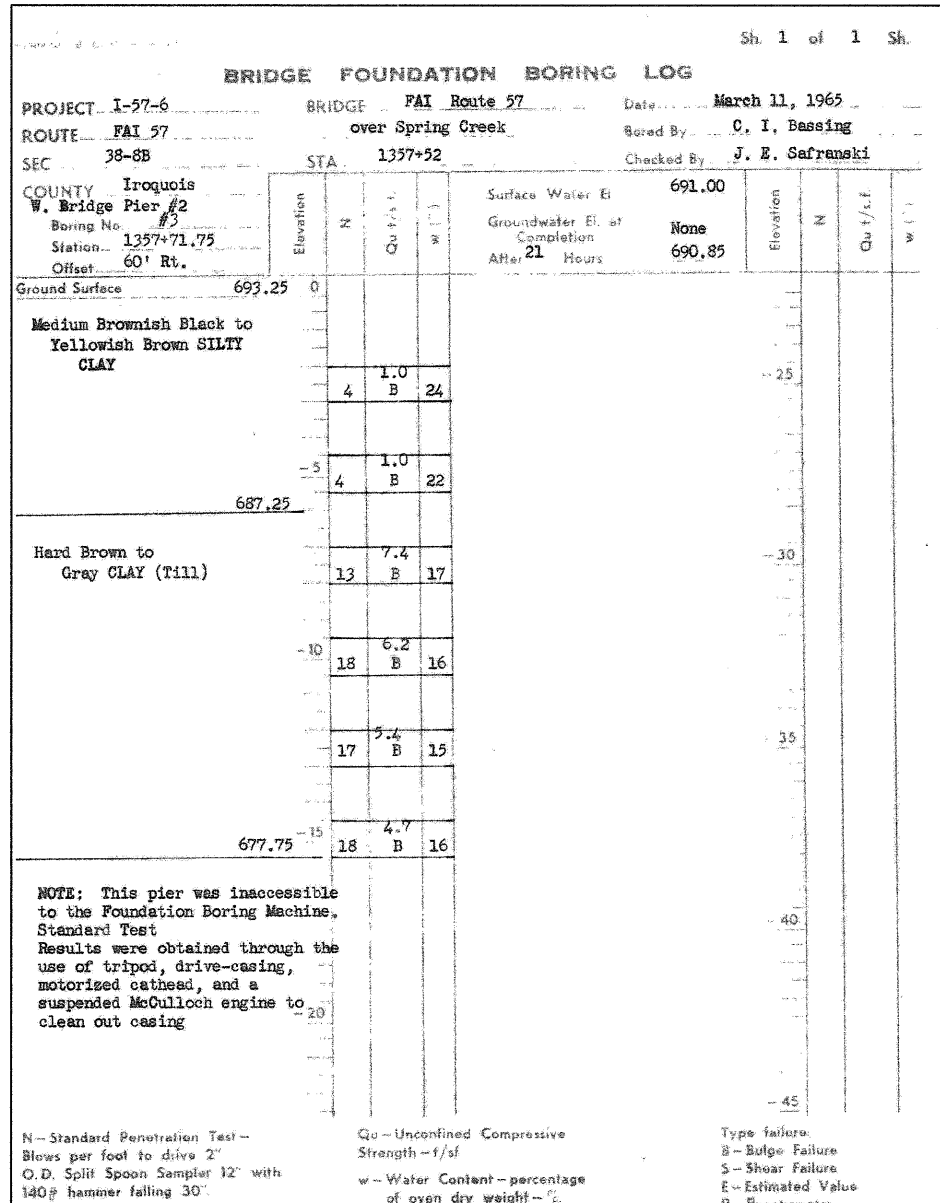
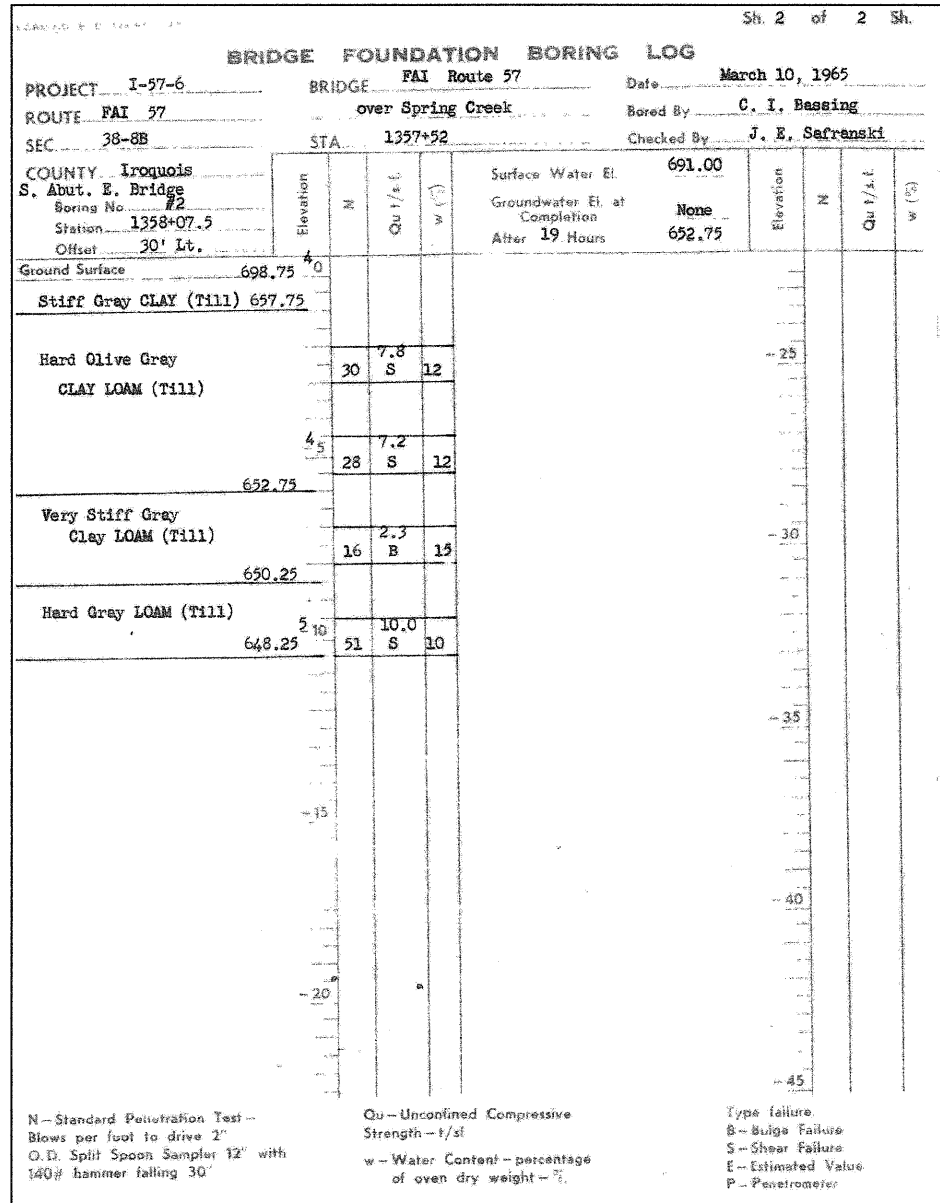
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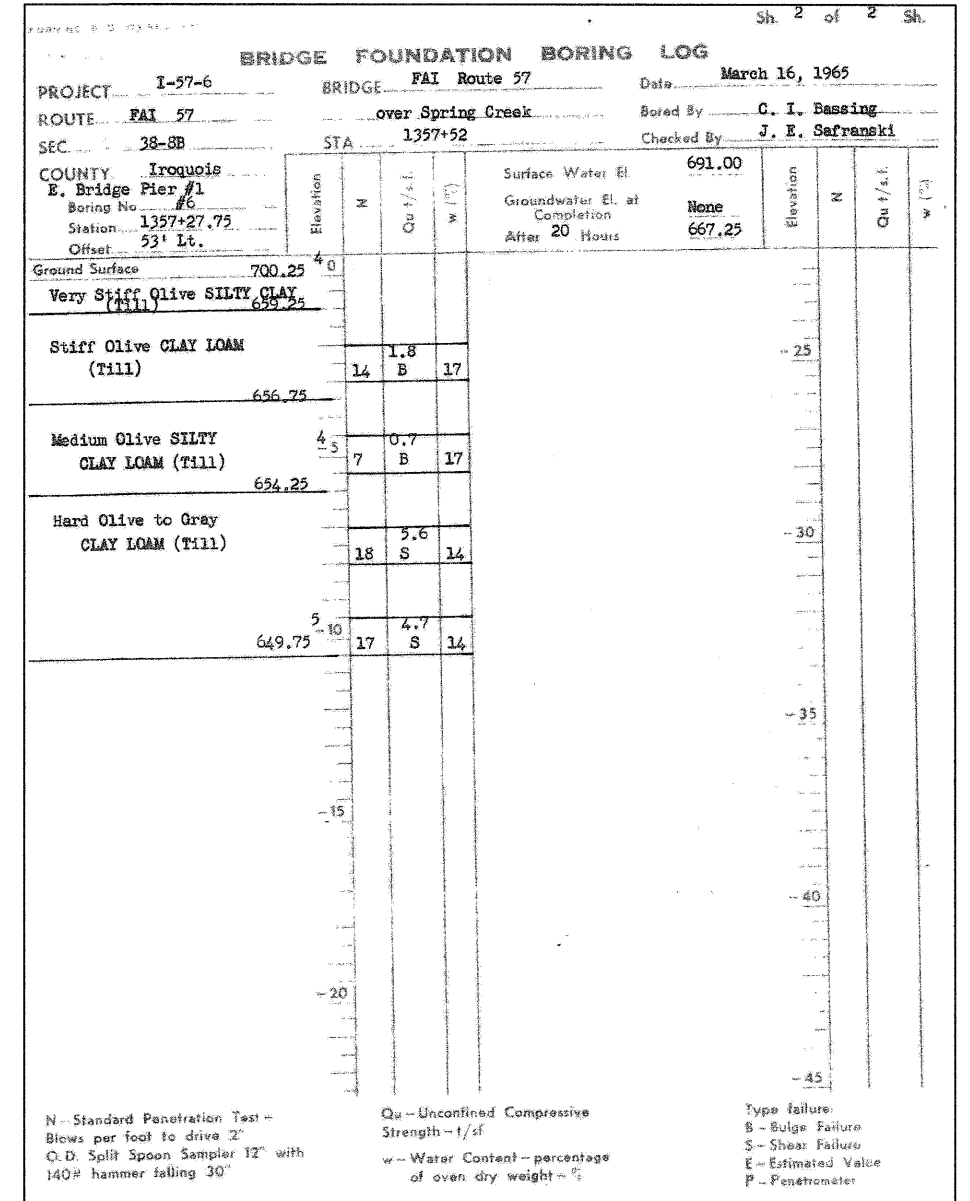
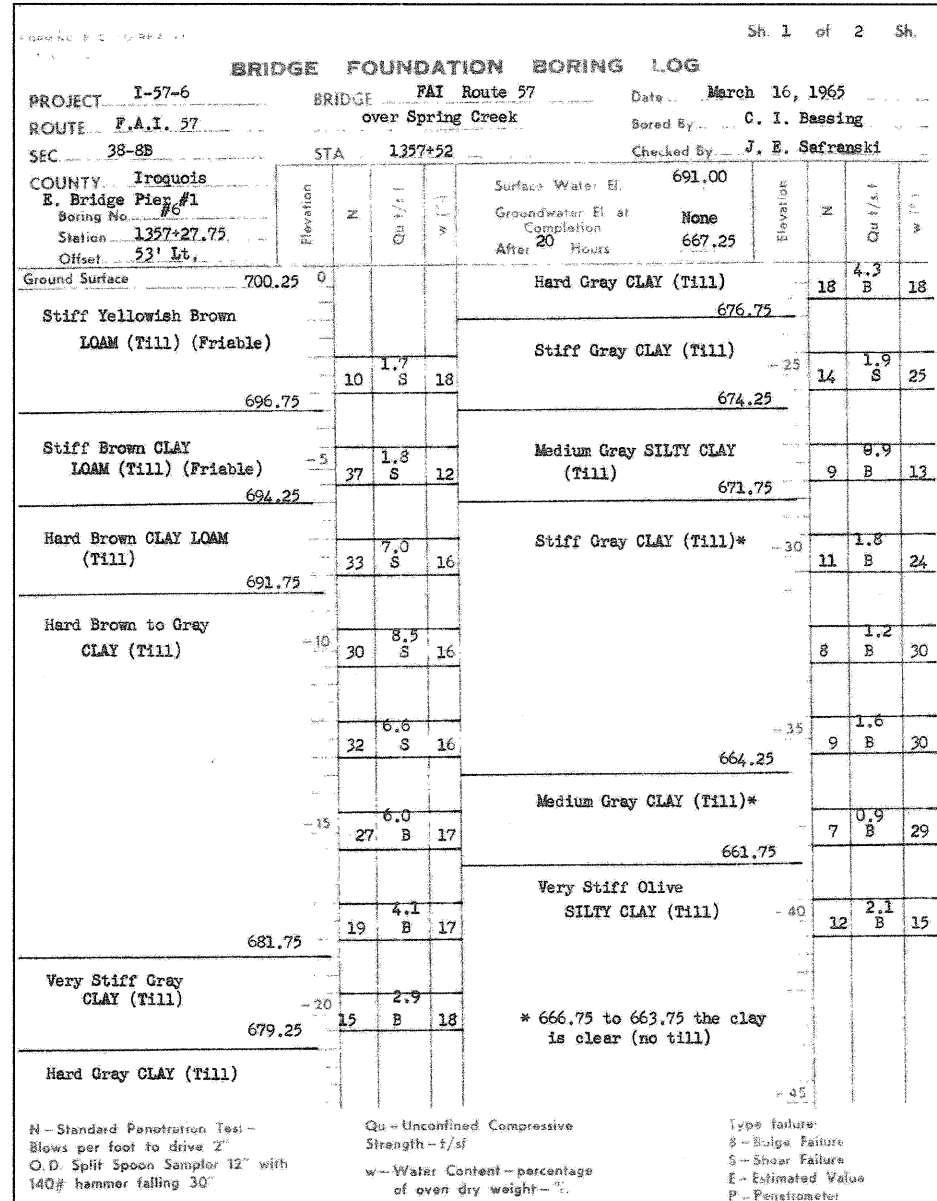
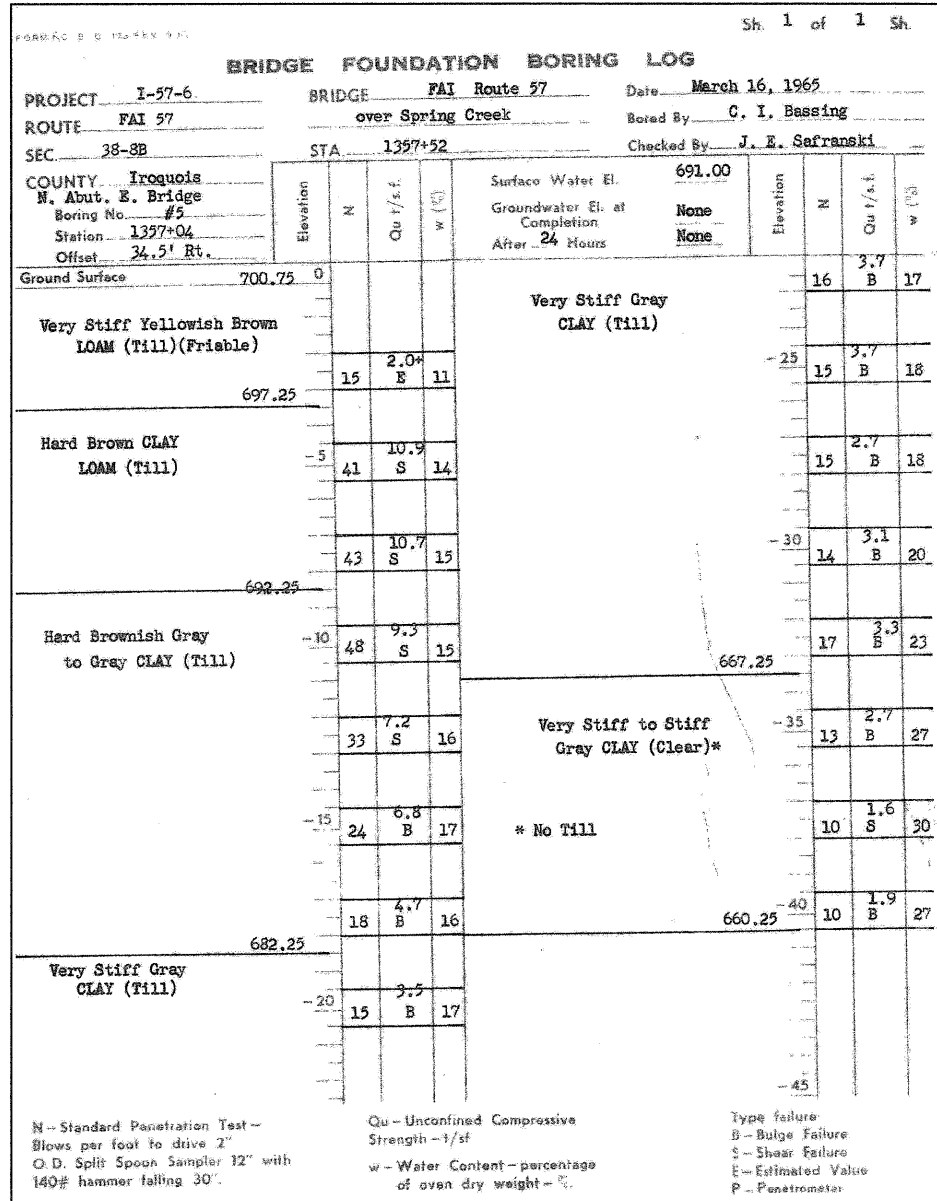
N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

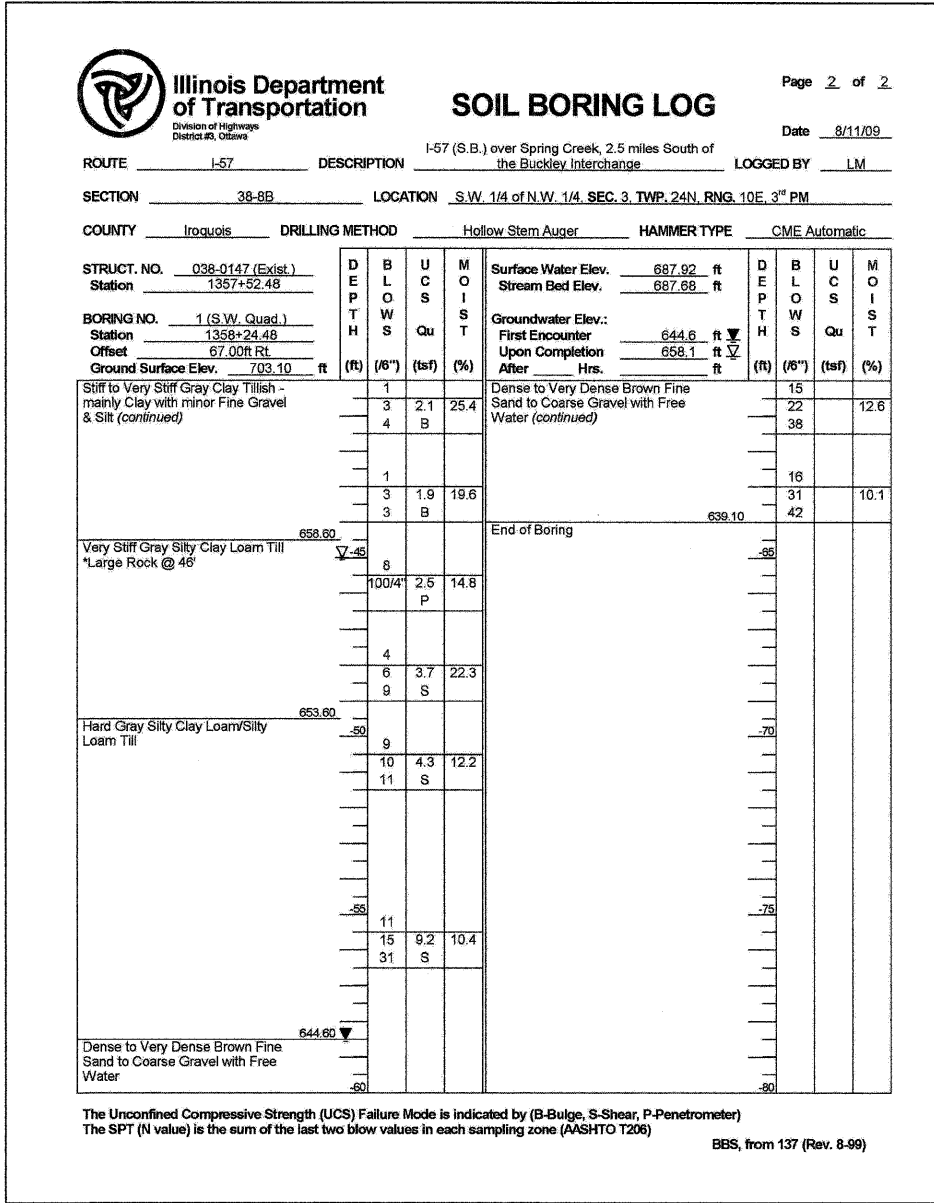
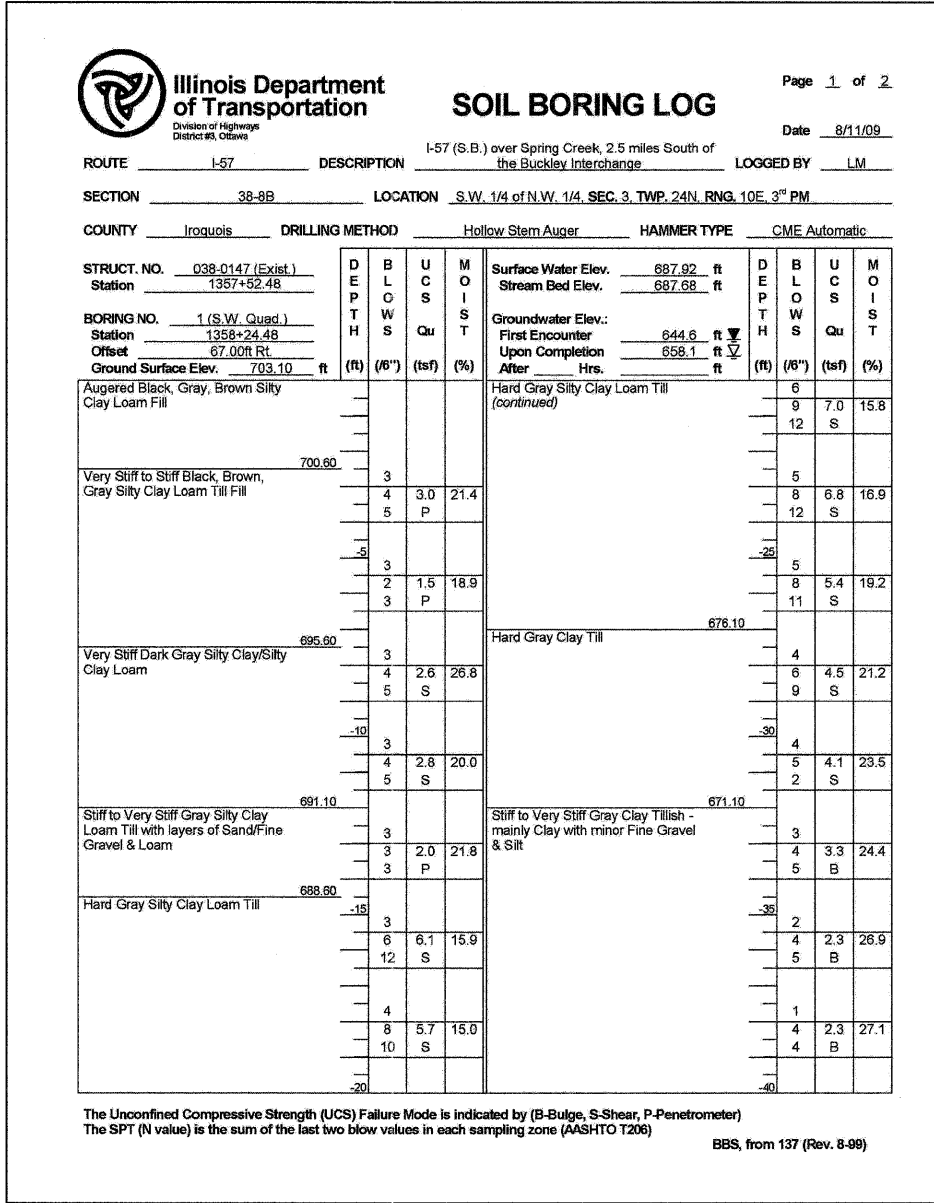
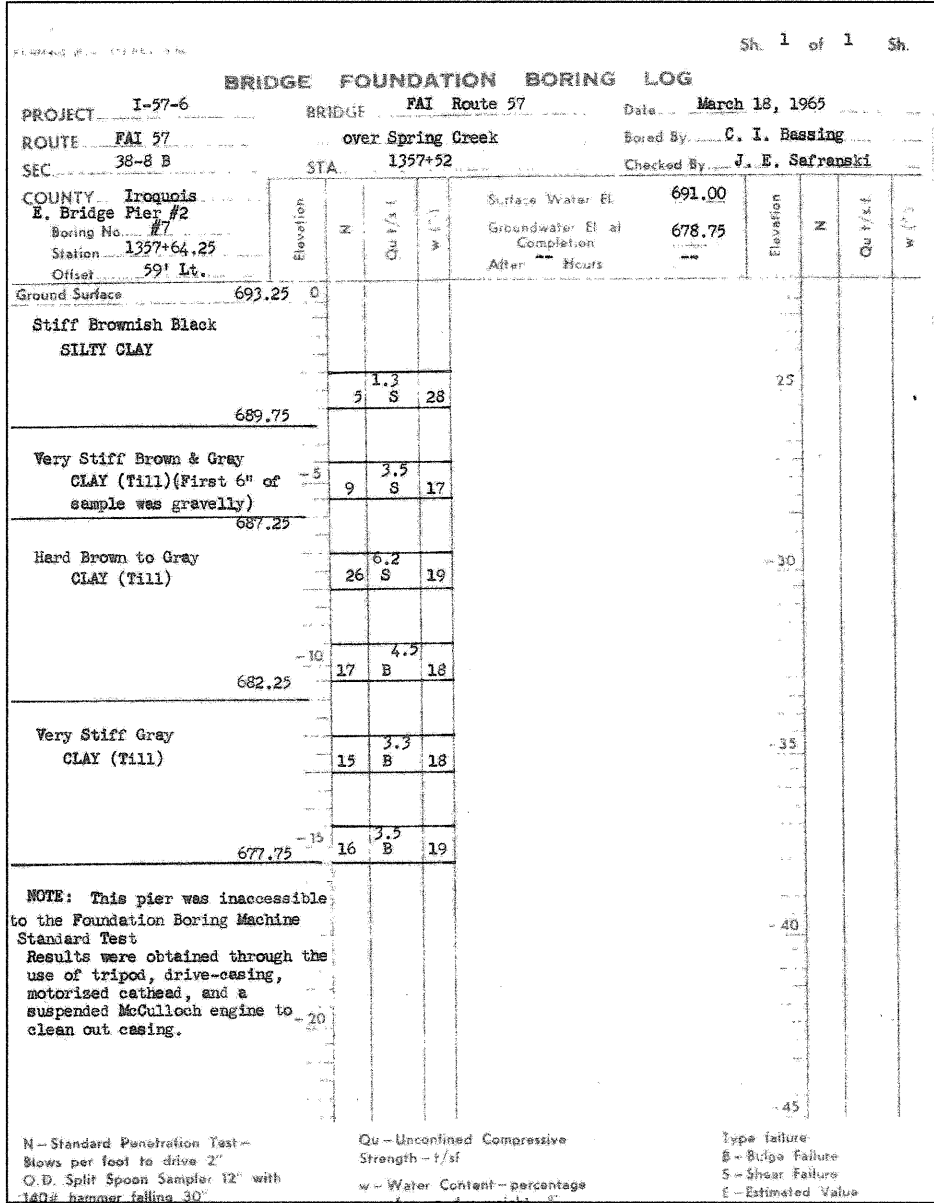
Qu - Unconfined Compressive Strength - t/sf w - Water Content - percentage of oven dry weight - %

Type failure: B - Bulge Failure S - Shear Failure E - Estimated Value P - Penetrometer

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FILE NAME = 0380222&0223.66948_031 BOR LOG 4.dgn	USER NAME = rgr/mm	DESIGNED - JLS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS (4 OF 5) STRUCTURE NO. 038-02220223	F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 46
PLOT SCALE =	DRAWN - RMG	REVISED -	CONTRACT NO. 66948							
PLOT DATE = 08/18/2011	CHECKED - KJN	REVISED -	ILLINOIS FED. AID PROJECT							
SHEET NO. S31 OF S41 SHEETS										

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SOIL BORING LOG

Date 8/13/09

ROUTE I-57 DESCRIPTION I-57 (S.B.) over Spring Creek, 2.5 miles South of the Buckley Interchange LOGGED BY LM

SECTION 38-8B LOCATION S.W. 1/4 of N.W. 1/4, SEC. 3, TWP. 24N, RNG. 10E, 3rd PM

COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 038-0147 (Exist.) Station 1357+52.48 BORING NO. 2 (N.E. Quad.) Station 1358+92.48 Offset 17.00R Rt. Ground Surface Elev. 703.50 ft

Table with columns for Depth (ft), Blows (6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes data for Augered Brown Silty Clay Loam Till Fill, Hard to Very Stiff Brown Silty Clay Loam Till Fill, Hard Grayish Brown Silty Clay Loam Till Fill, and Very Stiff Gray Silty Clay Loam Till.

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)



SOIL BORING LOG

Date 8/13/09

ROUTE I-57 DESCRIPTION I-57 (S.B.) over Spring Creek, 2.5 miles South of the Buckley Interchange LOGGED BY LM

SECTION 38-8B LOCATION S.W. 1/4 of N.W. 1/4, SEC. 3, TWP. 24N, RNG. 10E, 3rd PM

COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 038-0147 (Exist.) Station 1357+52.48 BORING NO. 2 (N.E. Quad.) Station 1358+92.48 Offset 17.00R Rt. Ground Surface Elev. 703.50 ft

Table with columns for Depth (ft), Blows (6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes data for Very Stiff Gray Clay Till - mainly Clay (continued), Hard Grayish Brown Silty Loam Till - Brittle (continued), Dense to Very Dense Brown Fine Sand to Coarse Gravel with Free Water, Very Stiff Grayish Brown Silty Clay Loam Till, Very Stiff Grayish Brown Silty Clay Loam/Silty Loam Till with Silt Layers, and Hard Grayish Brown Silty Loam Till - Brittle.

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)



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Table with columns for FILE NAME, USER NAME, DESIGNED, CHECKED, DRAWN, PLOT DATE, REVISED, and PLOT SCALE.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (5 OF 5) STRUCTURE NO. 038-0222/0223

SHEET NO. S32 OF S41 SHEETS

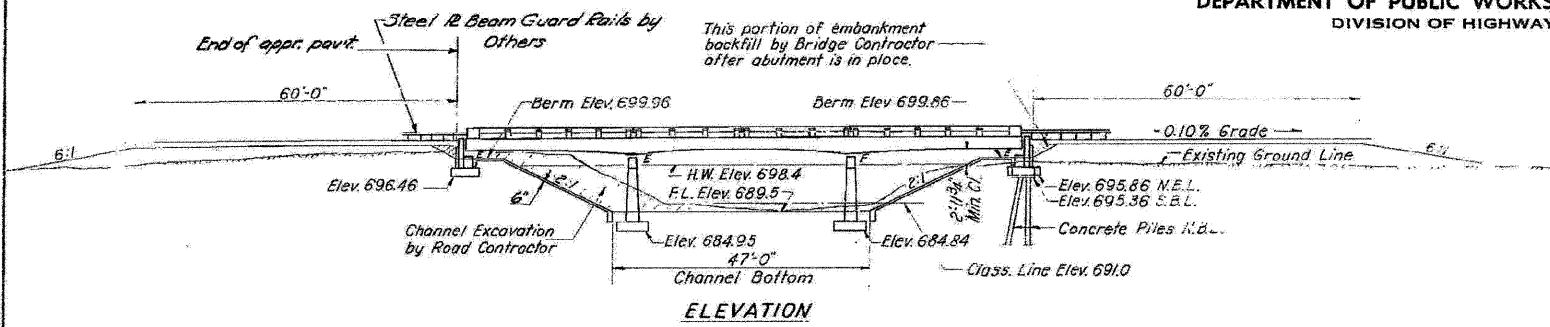
Table with columns for F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.

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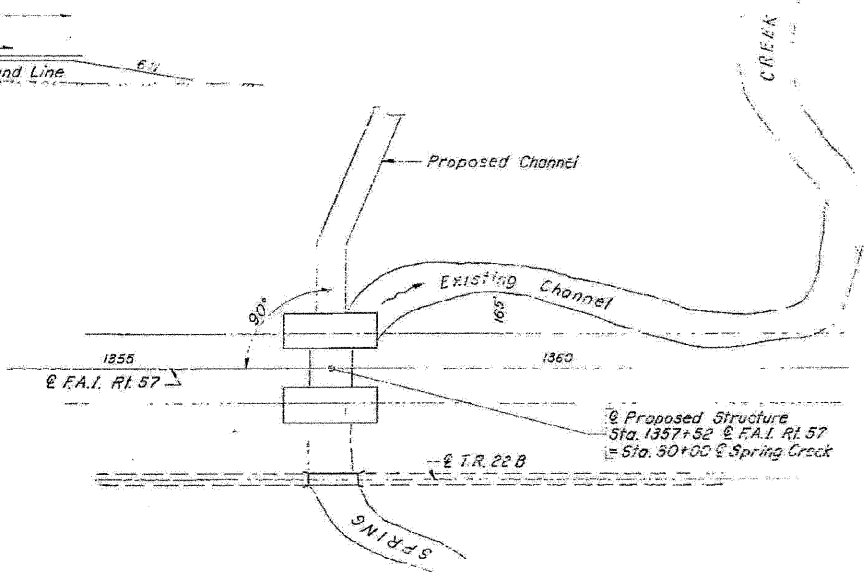
B.M. #50 R.R. Spike in R.P. Sta. 1369+17
108' Rt. Elev. 699.65

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

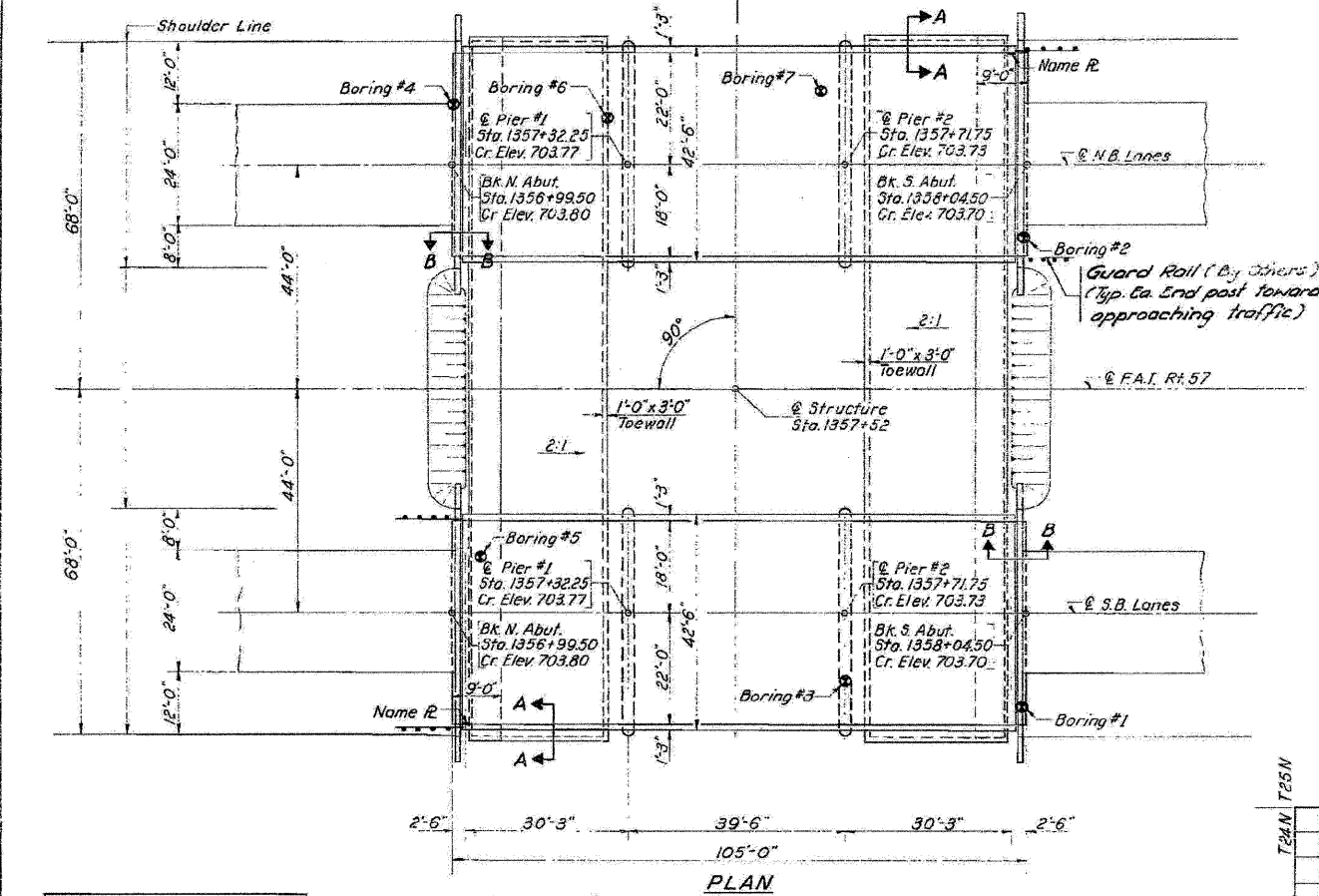
PROJECT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-57	38-8B	IROQUOIS	73	27
SHEETS				



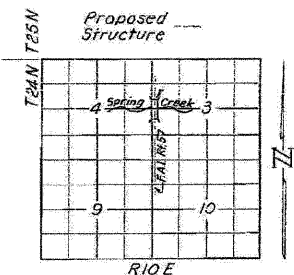
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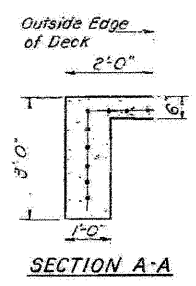
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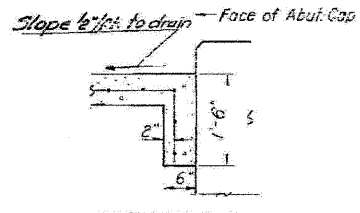
PLAN



LOCATION PLAN



SECTION A-A



SECTION B-B

WATERWAY INFORMATION
Drainage Area 18,500 Acres
Character Level & Cultivated
Required Opening (50 Yr. Fl.) 540 Sq. Ft.
Proposed Opening 540 Sq. Ft.
Ordinary Water Elev. 692.5
Low Water Elev. 690.0
Design frequency discharge, Q50 = 2700 cfs.

DESIGN STRESSES
F_c = 1400 psi. Super & Sub
V_c = 75 psi. Figs.
F_s = 20,000 psi. Reinf.
n = 10
LOADING HS 20-44 & ALI.

GENERAL NOTES
Coarse aggregate to be used in wing walls must be free of dirt, flint, limestone, lignite and soft sandstone.
The concrete floor slab shall be finished in accordance with Article 61.19 of the Standard Specifications.
Slope walls shall be reinforced with welded wire fabric 6"x6" mesh, weighing 52# per 100 Sq. Ft.
Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.
The honorific concrete in the full cost and taking shall be counted in separate operations.
All reinforcement bars shall be spaced 20 diameters unless otherwise shown.
The exposed surfaces of the expansion joints shall be given two shop coats of red lead paint. The contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be coated.
All structural steel shall conform to ASTM Specifications Designation A-36.
Expansion joints are included in quantity of structural steel.
Estimated Weight = 4400 lbs.
Structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint.
The Contractor shall drive one concrete test pile in a permanent location at the S. Abut. N. Bound Structure, as directed by the Engineer before ordering the remainder of the piles.
Permanent forms will not be permitted in forming the concrete slab.

STATION 1357+52
BUILT 195 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 38-8B
A.A. PROJ. I-16-57-6(53)
LOADING HS 20 & ALI.
NAME PLATE LETTERING
See Standard 2113-1

TOTAL BILL OF MATERIAL

Item	Qty	Super	Sub	Notes
Class A Excavation for Structures	Sq. Yds.	390	250	
Class B Excavation for Structures	Sq. Yds.	340	240	
Structural Steel	Lbs.	19,840	18,840	
Handrail Concrete	Sq. Yds.	18.5	2.2	
Class X Concrete	Sq. Yds.	564.6	182.7	481.8
Class A Concrete	Sq. Yds.		246.8	246.8
Reinforcement Bars	Lbs.	122700	52570	175270
Concrete Piles	Lin. Ft.		240	240
Test Piles Concrete	Each			
Name Plates	Each	2		2
Slope 45% (6")	Sq. Yds.		1040	1040
Bridge Seat Sealant	Lump Sum		0.5	0.5

* Bridge Seat Sealant shall be used at Abutments only.
** Class A & B Excavation for Structures includes excavation for Base of

FOR INFORMATION ONLY

GENERAL PLAN & ELEVATION
F.A.I. RT. 57 OVER SPRING CREEK
F.A.I. RT. 57 SEC. 38-8B
IROQUOIS COUNTY
STA. 1357+52

Revised 4-26-42 by T.E.

DESIGNED *J. Kaspar*
CHECKED *J.B.N.*
DRAWN *J.L. Armstrong*
CHECKED *J.B.N.*
EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*
June 7 19 45

Rev. 4/10/45 J.B.N./J.K.

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

FILE NAME =	USER NAME = rgrmm	DESIGNED - JLS	REVISED -
8380222&0223.66948.833.Exist.Plan.1.dgn		CHECKED - AAY	REVISED -
		DRAWN - RMG	REVISED -
		CHECKED - KJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN INFORMATION (1 OF 9)
STRUCTURE NO. 038-0222/0223
SHEET NO. 533 OF 541 SHEETS

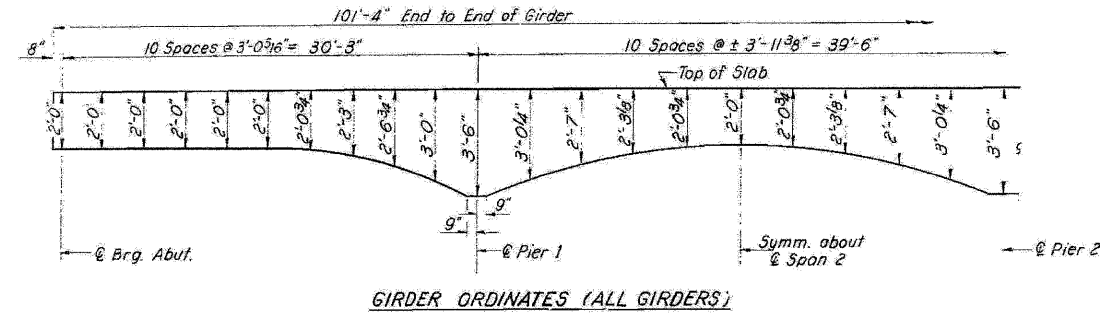
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	48
CONTRACT NO. 66948				
ILLINOIS FED. AID PROJECT				

x:\3900s\3938\structures\1-57 over spring creek\final\plans\0380222&0223.66948.833.Exist.Plan.1.dgn 08:51:32 08/18/2011

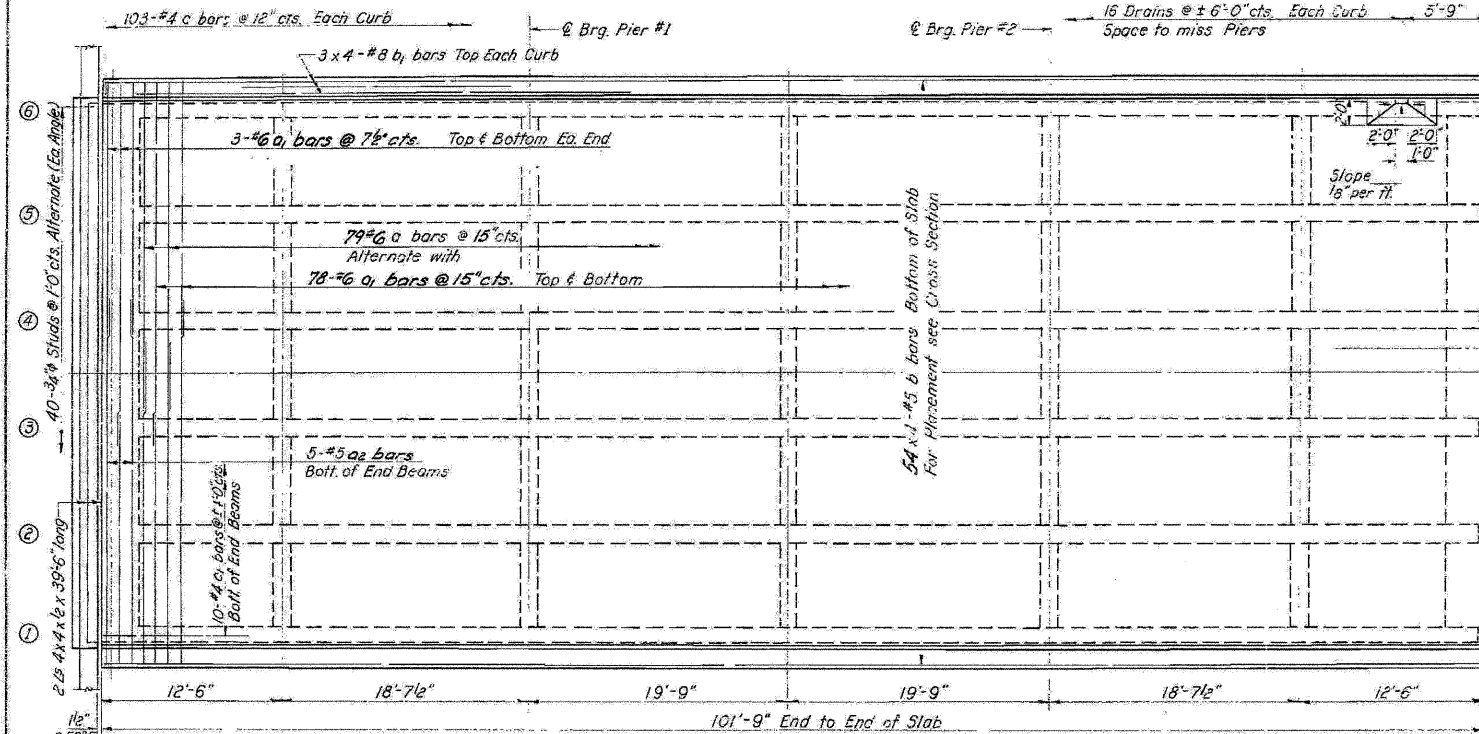
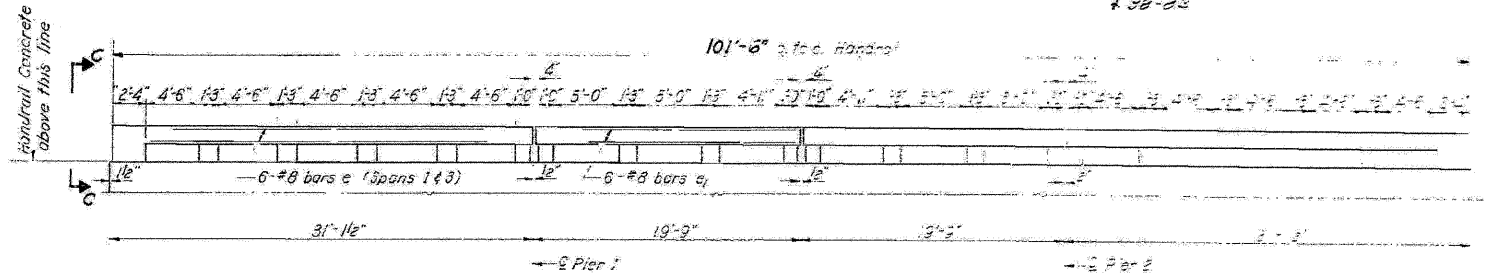
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT	NO.	DATE	SHEET NO.
ILLINOIS RT. 57 SEC. 38-8B	13	28	13 OF 28

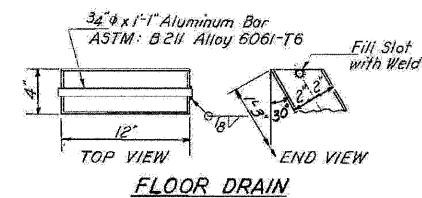
The Contractor shall determine the elevations of the bottom surface of each girder by subtracting the girder ordinates from the Top of Slab Elevations Adjusted for Dead Load Deflection given on sheet #4.



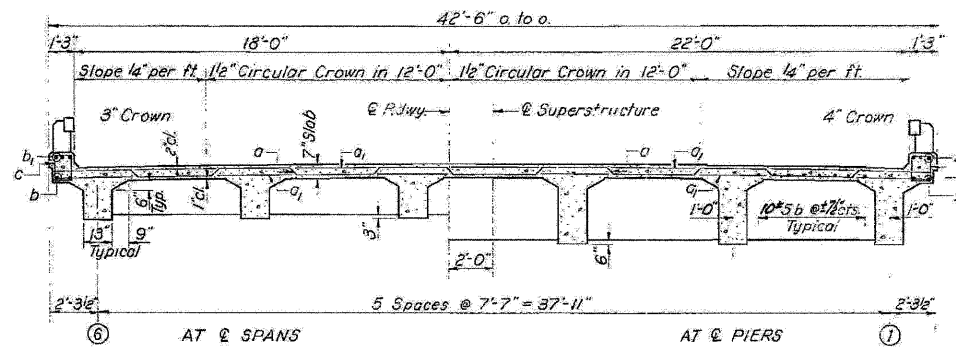
Note: For End of Slab Detail See Sheet #5



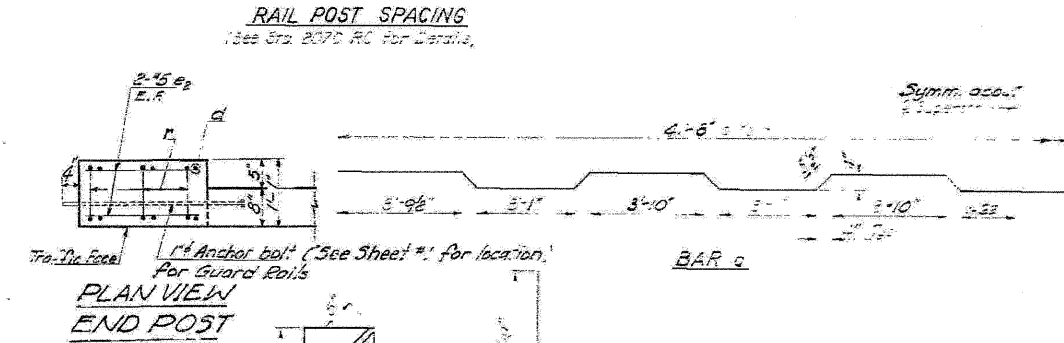
PLAN
South Bound Structure



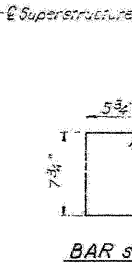
FLOOR DRAIN



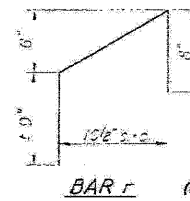
CROSS SECTION
Looking South - S.B. Rdwy
Looking North - N.B. Rdwy



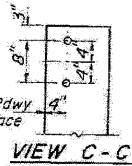
PLAN VIEW
END POST



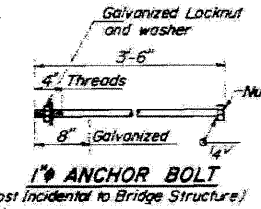
BAR S



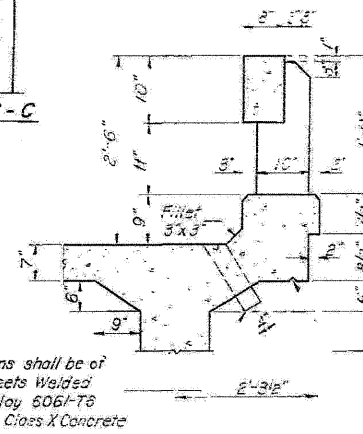
BAR F



VIEW C-C



ANCHOR BOLT
(Cost incidental to Bridge Structure)



CURB DETAIL

TWO SUPERSTRUCTURES
BILL OF MATERIAL

ITEM NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	Structural Steel	252	LB	252
2	Reinforcement Bars	22700	LB	22700
3	Galvanized Locknut and washer	336	EA	336
4	Threads	432	EA	432
5	Galvanized	43	EA	43
6	Anchor Bolt	43	EA	43
7	Aluminum Bar	43	EA	43
8	Flange	43	EA	43
9	Washer	43	EA	43
10	Nut	43	EA	43
11	Flange	43	EA	43
12	Washer	43	EA	43
13	Nut	43	EA	43
14	Anchor Bolt	43	EA	43
15	Flange	43	EA	43
16	Washer	43	EA	43
17	Nut	43	EA	43
18	Anchor Bolt	43	EA	43
19	Flange	43	EA	43
20	Washer	43	EA	43
21	Nut	43	EA	43
22	Anchor Bolt	43	EA	43
23	Flange	43	EA	43
24	Washer	43	EA	43
25	Nut	43	EA	43
26	Anchor Bolt	43	EA	43
27	Flange	43	EA	43
28	Washer	43	EA	43
29	Nut	43	EA	43
30	Anchor Bolt	43	EA	43
31	Flange	43	EA	43
32	Washer	43	EA	43
33	Nut	43	EA	43
34	Anchor Bolt	43	EA	43
35	Flange	43	EA	43
36	Washer	43	EA	43
37	Nut	43	EA	43
38	Anchor Bolt	43	EA	43
39	Flange	43	EA	43
40	Washer	43	EA	43
41	Nut	43	EA	43
42	Anchor Bolt	43	EA	43
43	Flange	43	EA	43
44	Washer	43	EA	43
45	Nut	43	EA	43
46	Anchor Bolt	43	EA	43
47	Flange	43	EA	43
48	Washer	43	EA	43
49	Nut	43	EA	43
50	Anchor Bolt	43	EA	43
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96	Washer	43	EA	43
97	Nut	43	EA	43
98	Anchor Bolt	43	EA	43
99	Flange	43	EA	43
100	Washer	43	EA	43

FOR INFORMATION ONLY

SUPERSTRUCTURE
F.A.I. RT. 57 SEC. 38-8B
IROQUOIS COUNTY
STA. 1357+52

DESIGNED	J. Kaspar	EXAMINED	E. Humant
CHECKED	J. B. Klam	PASSED	T. J. Patton
DRAWN	J. L. Armstrong	APPROVED	W. E. Hoff
CHECKED	J. B. K.		

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312-565-0450 Job No. 3938.09

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
0380222&0223.66948.034-Exist_Plan_2.dgn	rgrimm	JLS	-
		CHECKED -	REVISED -
		AAY	-
		DRAWN -	REVISED -
		RMG	-
		CHECKED -	REVISED -
		KJN	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN INFORMATION (2 OF 9)
STRUCTURE NO. 038-0222/0223

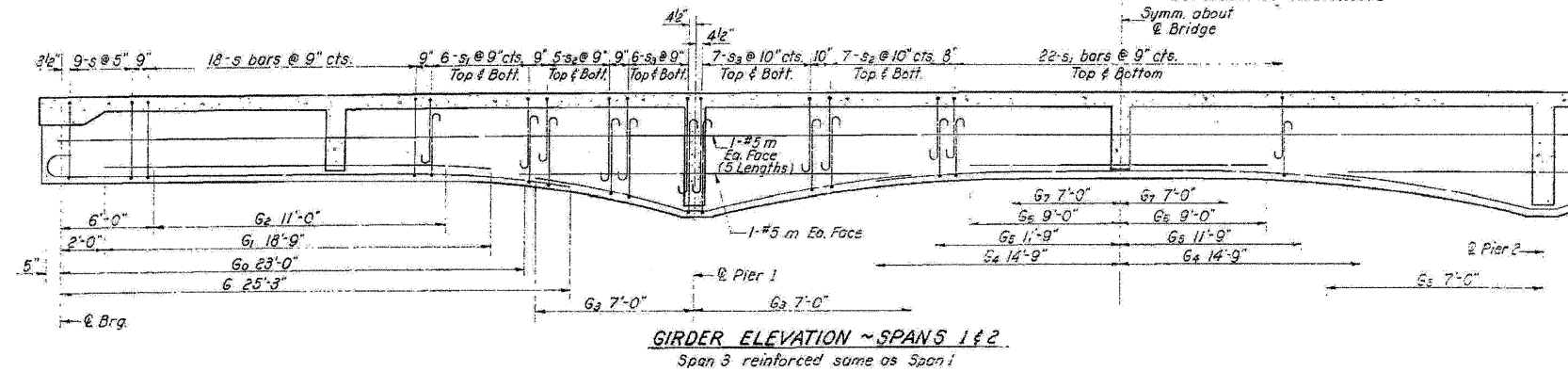
SHEET NO. 534 OF 541 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	49
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

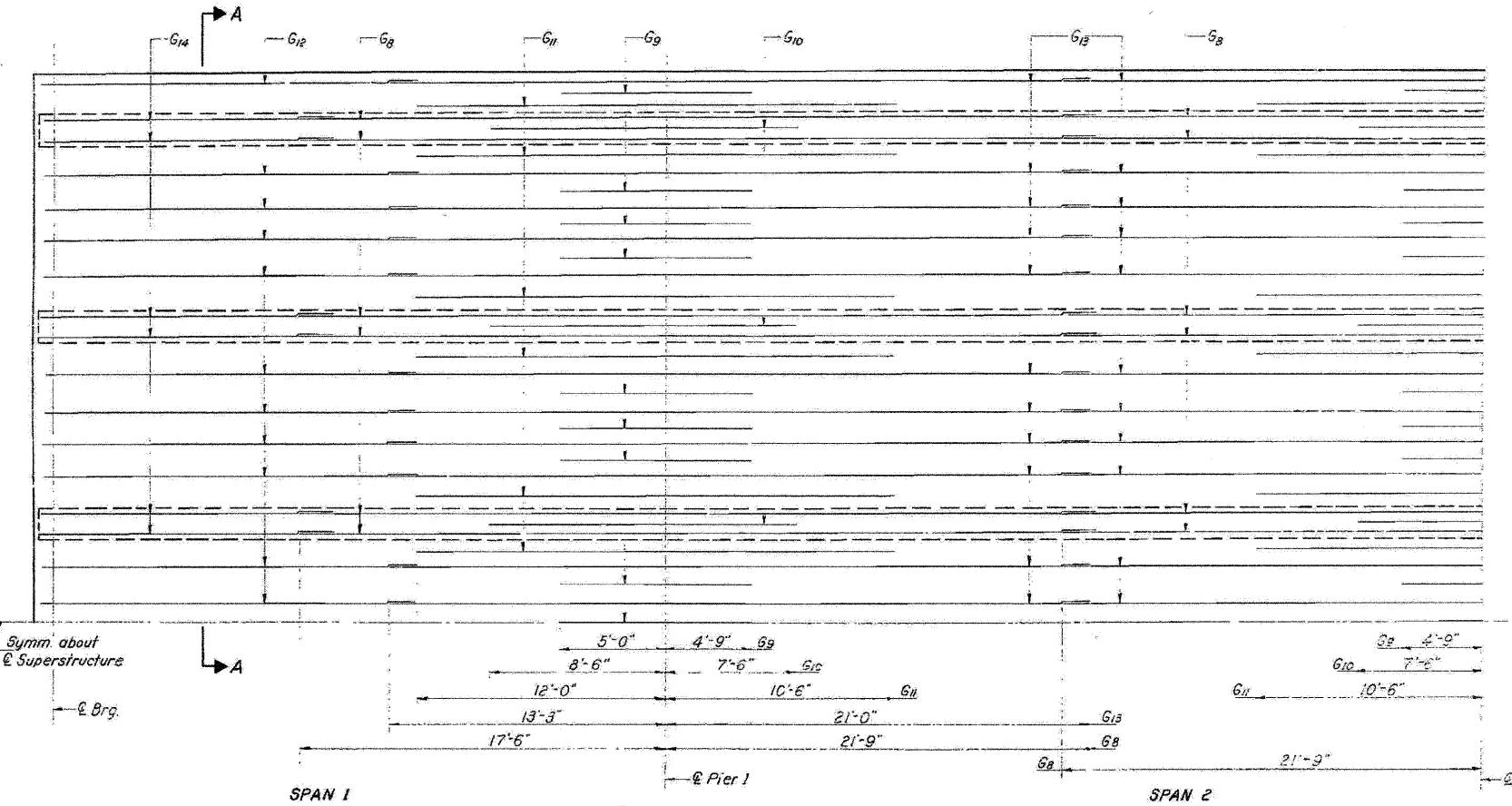
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

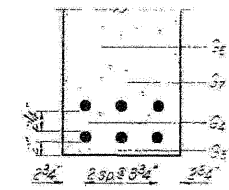
SHEET NO. 3
1357 * IROQUOIS 118 23
25-SHEETS
* 38-88



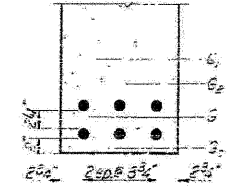
GIRDER ELEVATION - SPANS 1 & 2
Span 3 reinforced same as Span 1



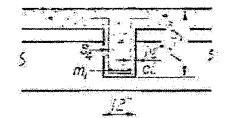
PARTIAL PLAN - SPANS 1 & 2
Showing reinforcement in top of slab, Span 3 same as Span 1



GIRDER DETAILS AT SPAN 2



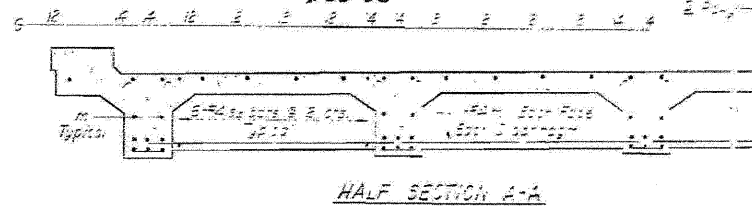
GIRDER DETAILS AT SPANS 1 & 3



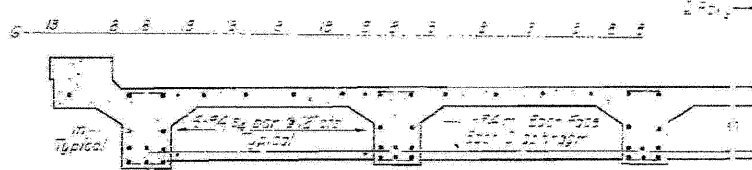
SECTION THRU INTERIOR DIAPHRAGM



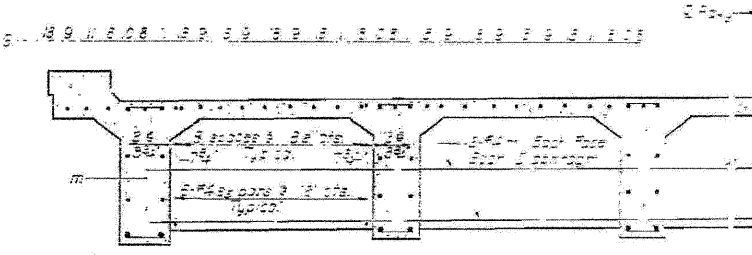
SECTION THRU DIAPHRAGM AT PIERS



HALF SECTION A-A



HALF SECTION AT INT. SPAN



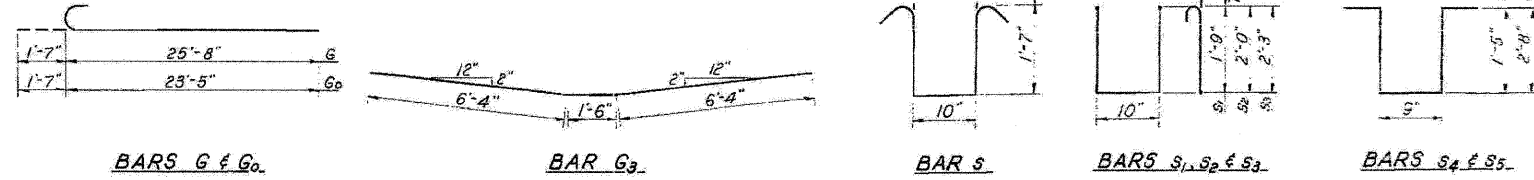
HALF SECTION AT PIERS

2 SUPERSTRUCTURES
BAR LIST FOR GIRDERS

Bar No.	Bar Size	Bar Spacing	Bar Length	Bar Location
G1	#5	12"	21'-0"	Top of Span 1
G2	#5	12"	21'-0"	Top of Span 1
G3	#5	12"	21'-0"	Top of Span 1
G4	#5	12"	21'-0"	Top of Span 1
G5	#5	12"	21'-0"	Top of Span 1
G6	#5	12"	21'-0"	Top of Span 1
G7	#5	12"	21'-0"	Top of Span 1
G8	#5	12"	21'-0"	Top of Span 1
G9	#5	12"	21'-0"	Top of Span 1
G10	#5	12"	21'-0"	Top of Span 1
G11	#5	12"	21'-0"	Top of Span 1
G12	#5	12"	21'-0"	Top of Span 1
G13	#5	12"	21'-0"	Top of Span 1
G14	#5	12"	21'-0"	Top of Span 1

FOR INFORMATION ONLY

DESIGNED: I. Kaspar
CHECKED: J. B. Nelson
DRAWN: J. L. Armstrong
CHECKED: J. B. N.
EXAMINED: June 7 1965
PASSED: A. J. Patton
APPROVED: V. E. Stoff



GIRDER REINFORCEMENT
F.A.I. RT. 57 SEC. 38-88
IROQUOIS COUNTY
STA. 1357+52

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

FILE NAME = 0380222&0223.66948_035_Exist.Plan_3.dgn
USER NAME = rgrmm
PLOT SCALE =
PLOT DATE = 08/18/2011

DESIGNED - JLS
CHECKED - AAY
DRAWN - RMG
CHECKED - KJN
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

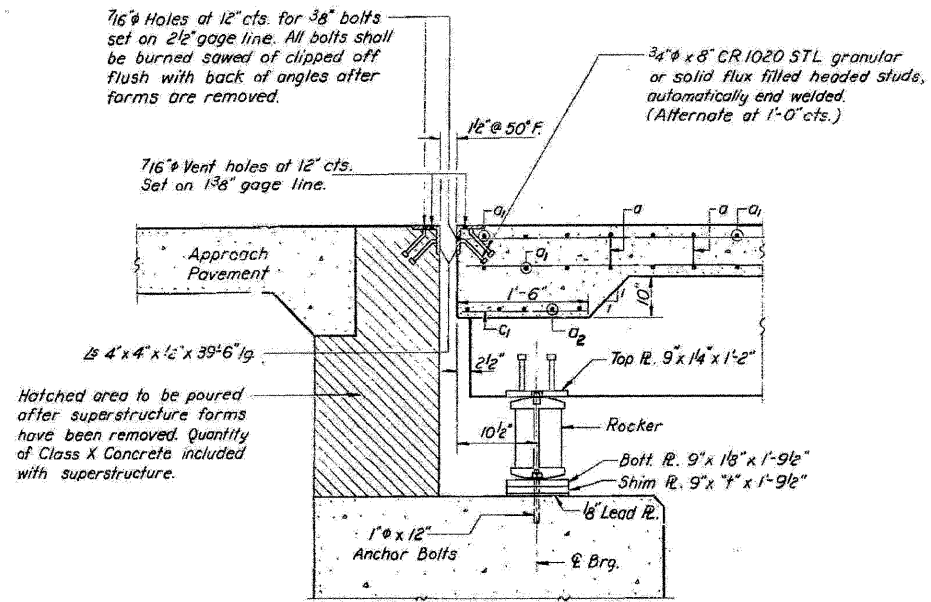
EXISTING PLAN INFORMATION (3 OF 9)
STRUCTURE NO. 038-02220223
SHEET NO. S35 OF S41 SHEETS

F.A.I. RTE. 57
SECTION (38-B) BR & BR-1
COUNTY IROQUOIS
TOTAL SHEETS 73
SHEET NO. 50
CONTRACT NO. 66948
ILLINOIS FED. AID PROJECT

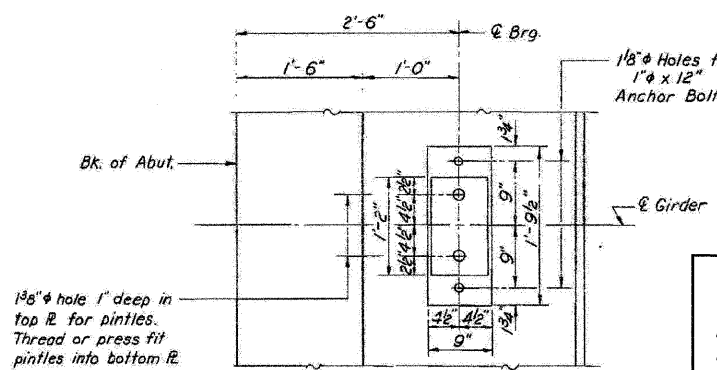
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1357	#	IRROQUOIS	113	31
FED. ROAD DIST. NO. 3	C.L.S.	FED. AID PROJECT		

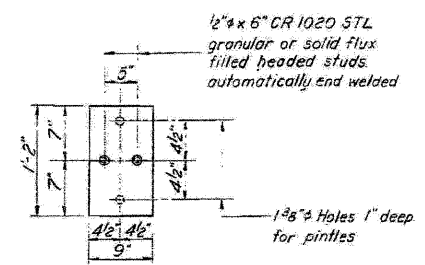


SECTION AT ABUTMENTS
(24 Brgs. Required)

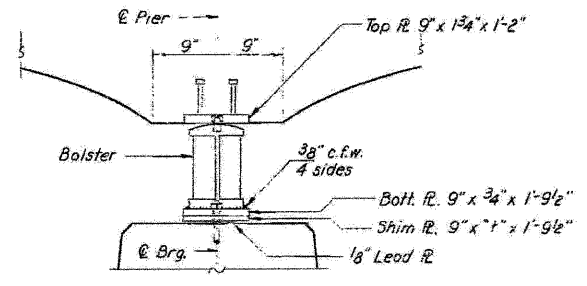


PLAN

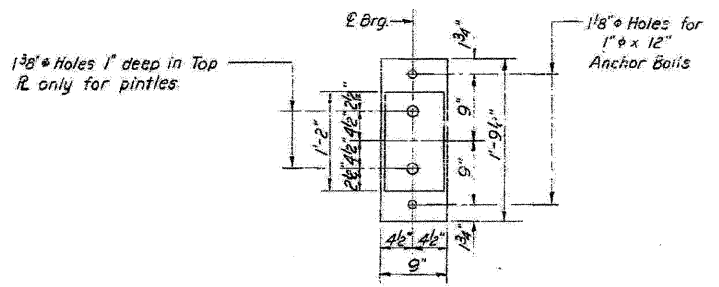
NOTE:
Rocker bearings at abutments were replaced in 1999 with Type I Elastomeric Bearings. See Sheet S37 of S41 for details.



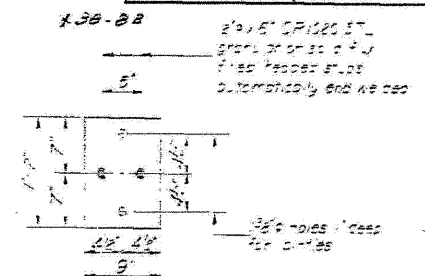
PLAN OF TOP PLATE
AT ABUTS & PIER 2



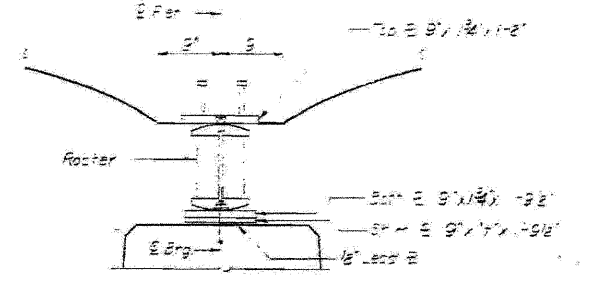
PIER 2
(1/2 Required)



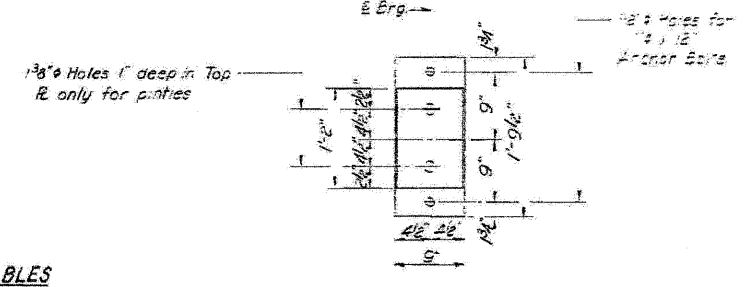
PLAN



PLAN OF TOP PLATE



PIER 1
(1/2 Required)



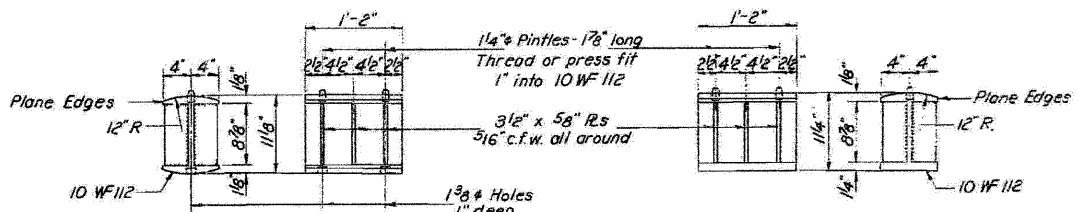
PLAN

STRESS TABLES

TABLE OF MOMENTS & REACTIONS - INTERIOR BEAMS							
Moments - Ft.-Kips		Reactions - Kips		Shear - Kips			
A Sp. 1	Pier 1	.5 Sp. 2	Abut. Pier	Abut. Pier	Abut. Pier	Pier	
Σ D.L.	53.0	-184.6	44.0	11.5	50.0	11.5	25.4
L.L.	147.0	-179.0	143.6	28.5	37.1	28.5	34.6
Imp.	43.8	-53.0	43.3	8.5	15.9	8.5	10.3
Total	243.8	-416.6	230.9	48.6	103.0	48.6	70.3

PROPERTIES:		
Location	Depth of T Beam	Moment of Inertia I
.5 Spans 1 & 2	24"	31,450 in ⁴
Piers	42"	180,180 in ⁴

SHIM "T" DIMENSIONS						
LOCATION	NORTH BOUND LANES					
	Girder 1	2	3	4	5	6
N. Abut.				4"	3 1/2"	
Pier 1				14"	3 1/2"	
Pier 2				14"	3 1/2"	
S. Abut.				4"	3 1/2"	
SOUTH BOUND LANES						
N. Abut.				4"	3 1/2"	
Pier 1				14"	3 1/2"	
Pier 2				14"	3 1/2"	
S. Abut.				4"	3 1/2"	



DETAIL OF ROCKER
AT ABUTS & PIER 1

DETAIL OF BOLSTER
AT PIER 2

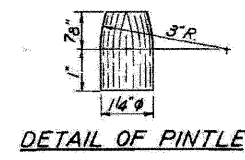
FOR INFORMATION ONLY

BEARING DETAILS
F.A.I. RT. 57 SEC. 38-8E
IRROQUOIS COUNTY
STA. 1357+52



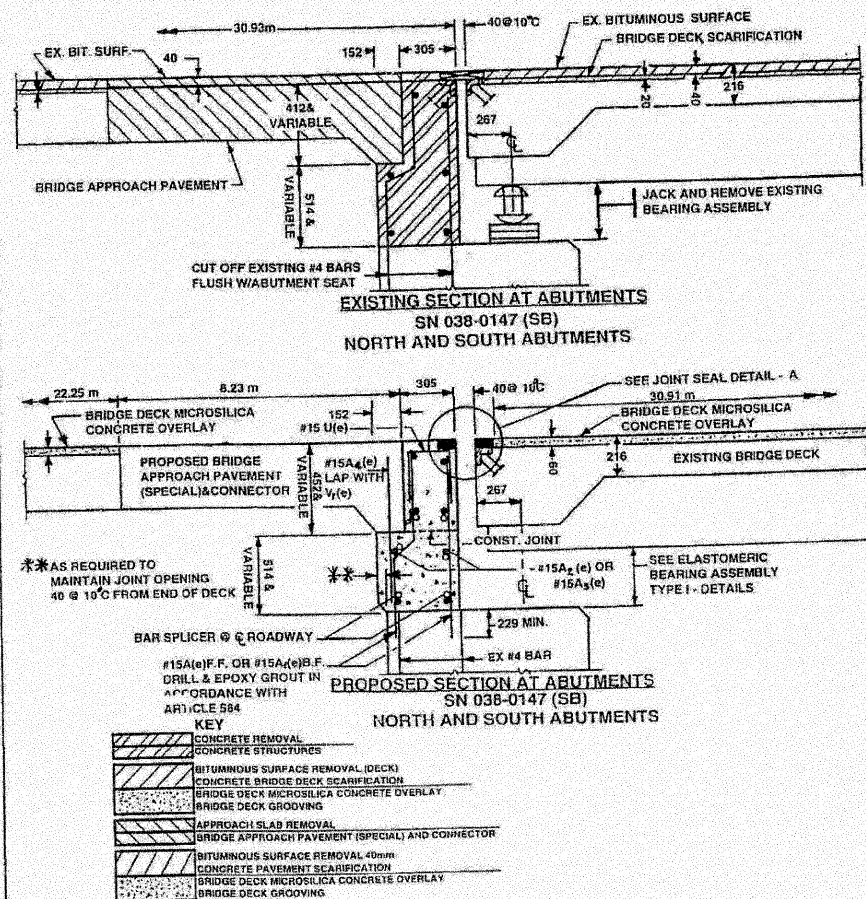
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

DESIGNED	I. Kaspar	EXAMINED	June 7 1965
CHECKED	J. B. Nelson	PASSED	
DRAWN	J. L. Armstrong	APPROVED	
CHECKED	J.B.N.		

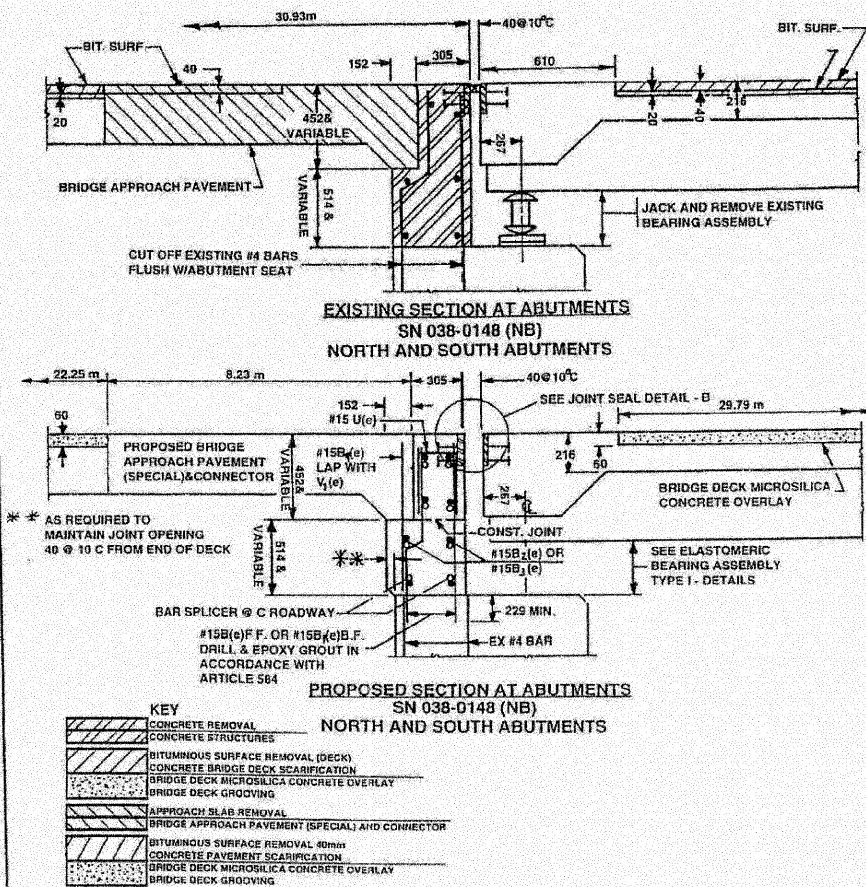


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PLOT SCALE =	PLOT DATE = 08/18/2011	CHECKED - AAY	REVISIONS -		SHEET NO. 536 OF 541 SHEETS	ILLINOIS FED. AID PROJECT					

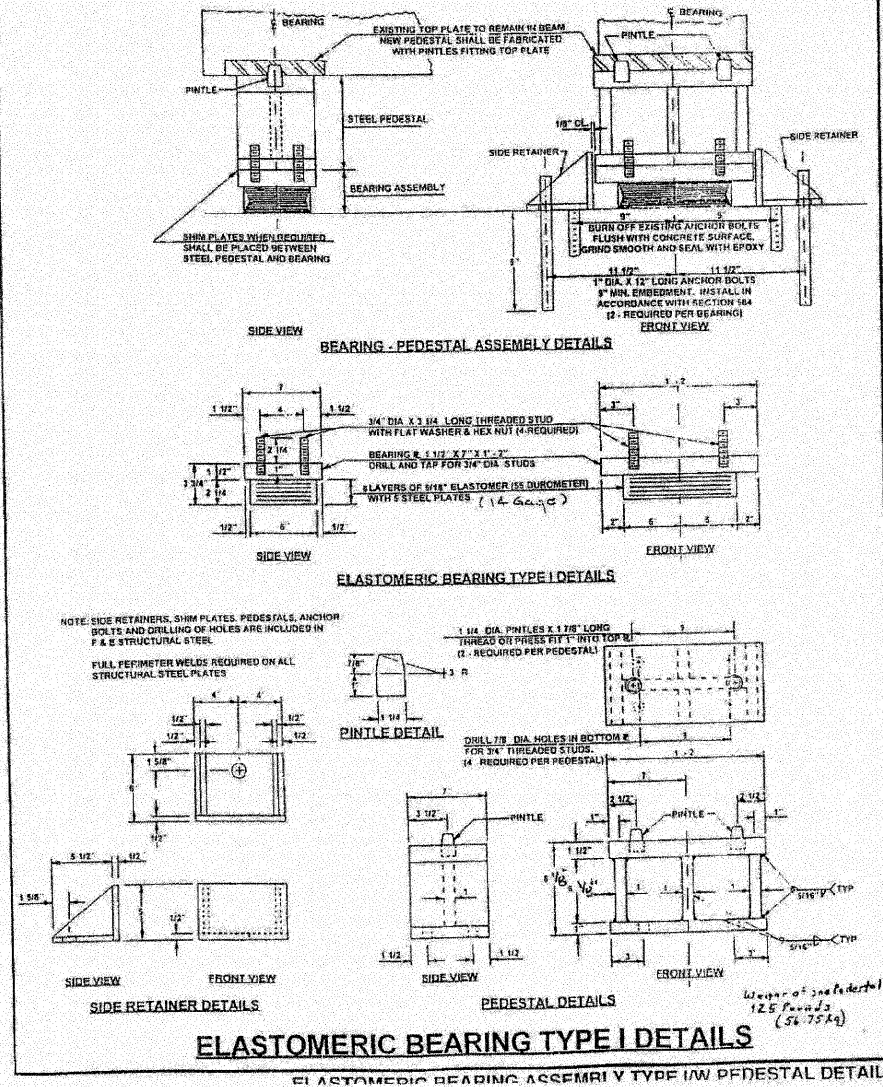
FAI 57 (I-57)
SECTION (38-8B,7B-1,7B,6B-1,6B) I
IROQUOIS COUNTY
SHEET 16 OF 110



FAI 57 (I-57)
SECTION (38-8B,7B-1,7B,6B-1,6B) I
IROQUOIS COUNTY
SHEET 17 OF 110



FAI 57 (I-57)
SECTION (38-8B,7B-1,7B,6B-1,6B) I
IROQUOIS COUNTY
SHEET 65 OF 110



FOR INFORMATION ONLY

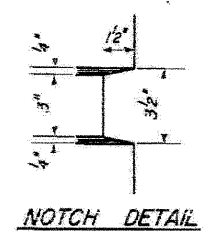
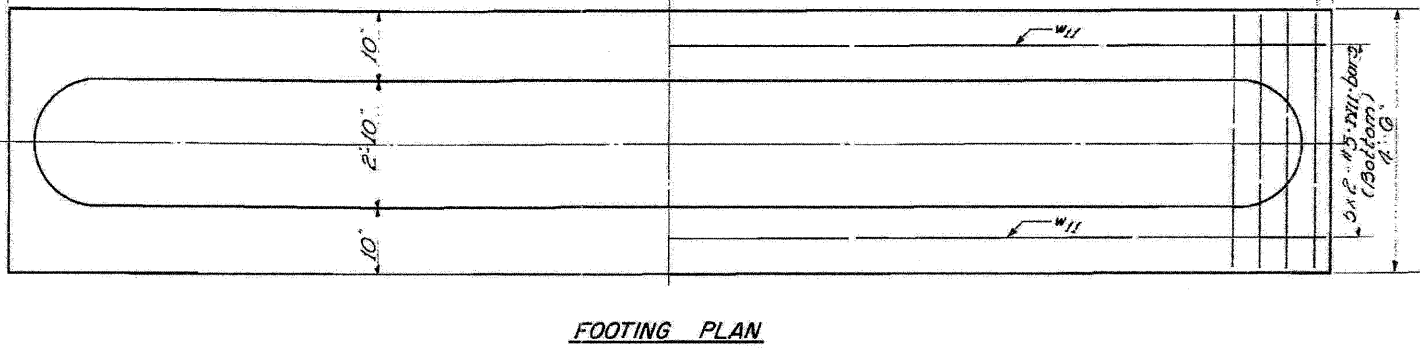
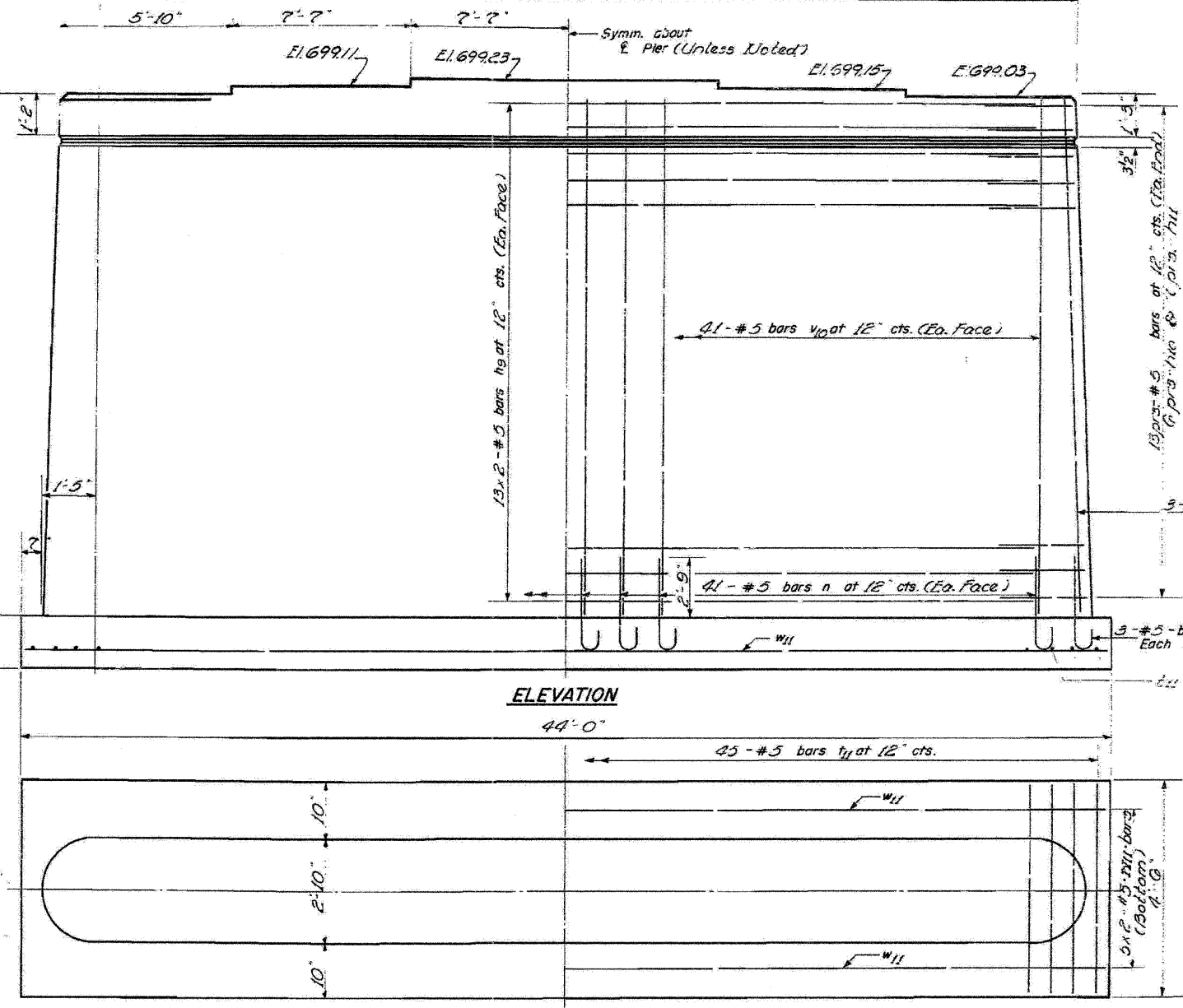
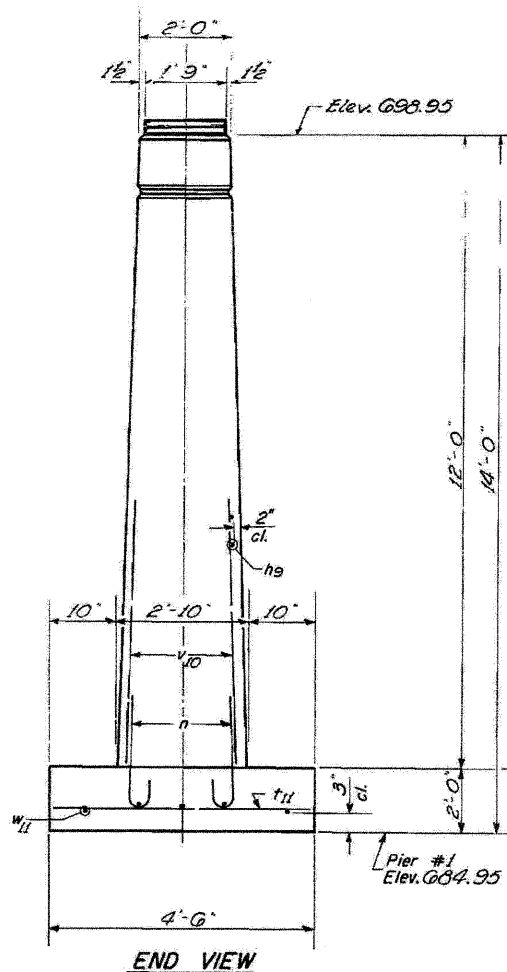
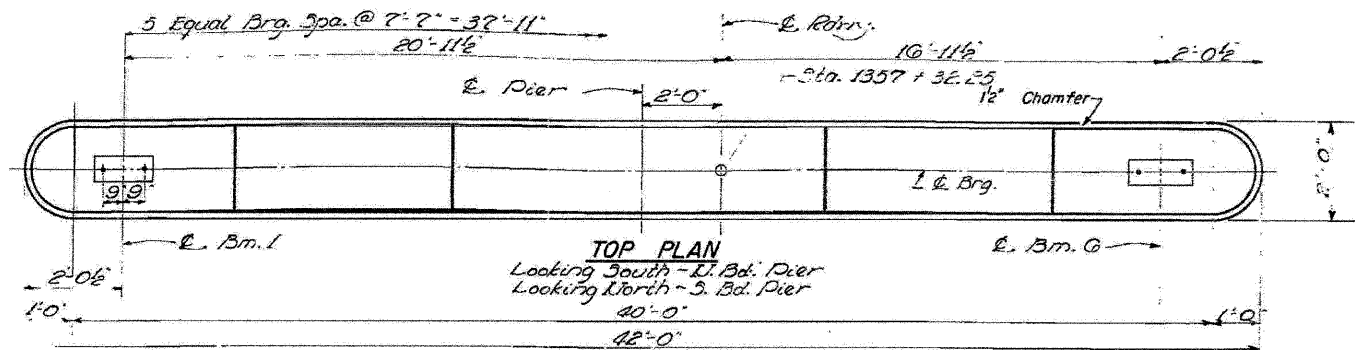
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	PLOT DATE = 08/18/2011	DRAWN - RMC	REVISED -
		CHECKED - KJN	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	52
CONTRACT NO. 66948				
ILLINOIS FED. AID PROJECT				

08/18/2011 08:51:39 xt:\3900s\3938_structures\1-57-over-springcreek\final\plans\0380222&0223_66948_037_Exist_Plan_5.dgn

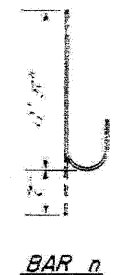
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-B) BR & BR-1	TROQUOIS	73	53
CONTRACT NO. 66948				



DETAIL OF BARS

Bar	R	A
1	10'-3"	3'-0"
2	1'-0"	2'-3"
3		
4		
5		
6		
7		
8		
9		
10		



2 PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n10	45	#5	3'-0"	U
n11	50	#5	3'-3"	U
n12	104	#5	2'-0"	U
n13	170	#5	5'-5"	U
n14	90	#5	4'-3"	U
n15	176	#5	11'-5"	U
n16	20	#5	22'-9"	U
Class A Concrete		Cu. Yds.		120.6
Reinforcement Bars		Lbs.		6530

FOR INFORMATION ONLY

DIER I
U.B.D. & S.B.D. LANES
E.A.I. RT. 57 - SEC. 38-B/B
TROQUOIS COUNTY
STA. 1357 + 52

DESIGNED: I. Kaspar
CHECKED: J.B.N. / W.A. Sausaman
DRAWN: W.A. Sausaman
CHECKED: J.B.N.
EXAMINED: [Signature] JUNE 7 1965
PASSED: [Signature]
APPROVED: [Signature]

P-1 Re-drawn 7-21-59 Rev. 11-25-59

benesch
engineers · scientists · planners
Allred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

FILE NAME = 0380222&0223.66948.038_Exist_Plan_6.dgn	USER NAME = pgr:m	DESIGNED - JLS	REVISD -
PLOT SCALE =		CHECKED - AAY	REVISD -
PLOT DATE = 08/18/2011		DRAWN - RMG	REVISD -
		CHECKED - KJN	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

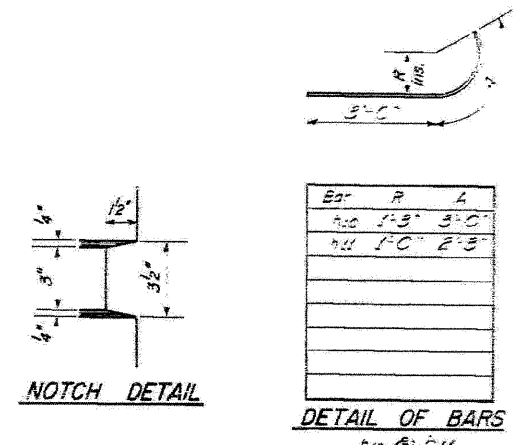
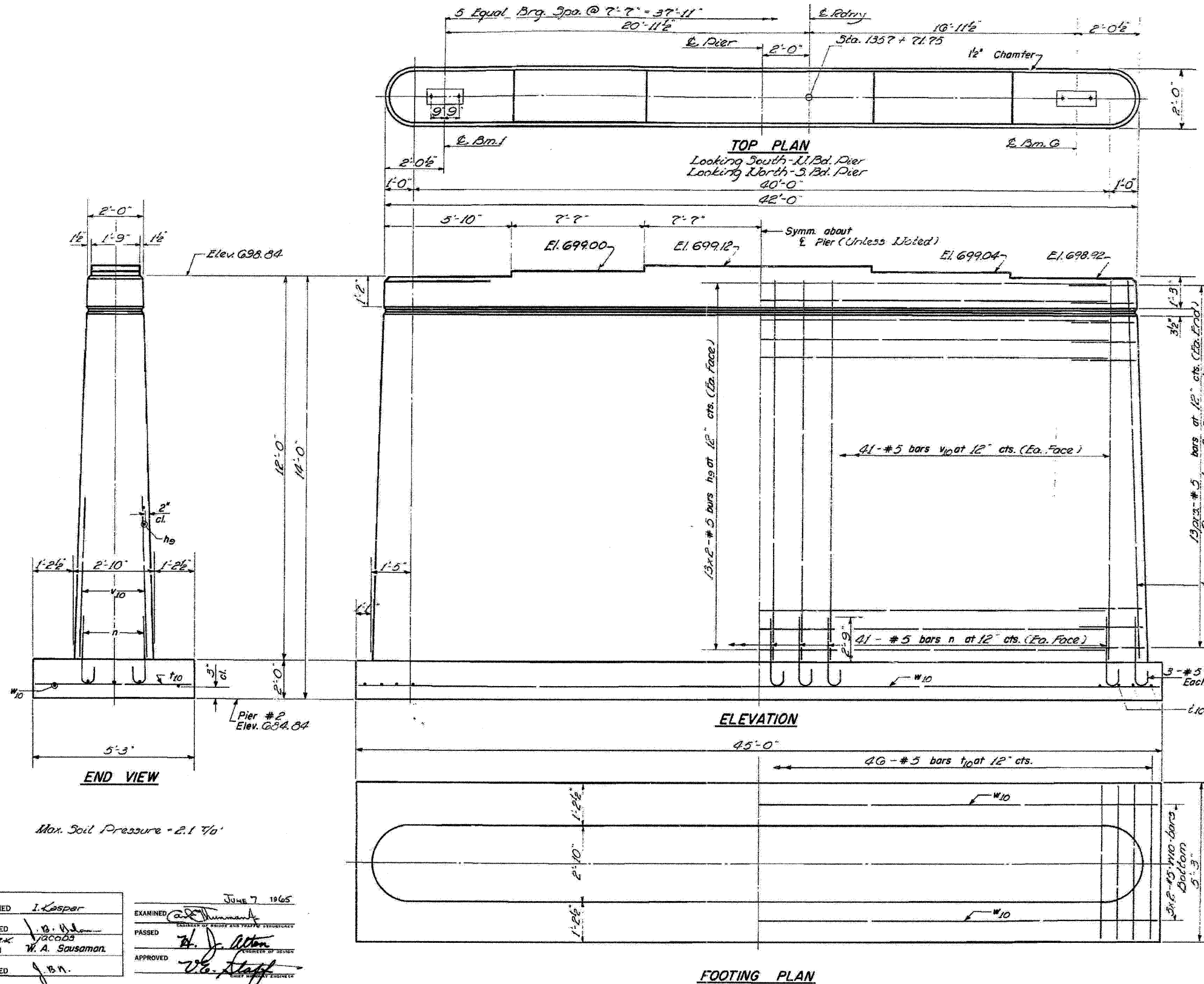
EXISTING PLAN INFORMATION (6 OF 9)
STRUCTURE NO. 038-02220223
SHEET NO. 538 OF 541 SHEETS

F.A.I. RTE. 57	SECTION (38-B) BR & BR-1	COUNTY TROQUOIS	TOTAL SHEETS 73	SHEET NO. 53
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

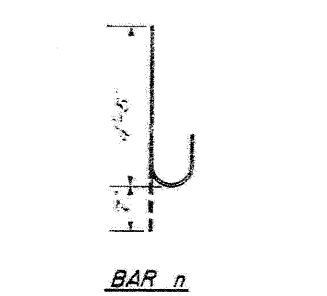
x:\3900s\3938\structures\1-57 over spring creek\final\plans\0380222&0223.66948.038_Exist_Plan_6.dgn 08/18/2011

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE	MILE	STATION	DATE	SHEET NO.
157	#	1800015	113	39
12 SHEETS				



Bar	No.	Size	Length	Shape
n10	46	#5	6'-0"	U
n11	50	#5	5'-3"	U
n12	104	#5	21'-5"	—
n	170	#5	5'-0"	C
n10	92	#5	5'-0"	—
n11	170	#5	11'-9"	—
n10	20	#5	23'-3"	—



2 PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n10	46	#5	6'-0"	U
n11	50	#5	5'-3"	U
n12	104	#5	21'-5"	—
n	170	#5	5'-0"	C
n10	92	#5	5'-0"	—
n11	170	#5	11'-9"	—
n10	20	#5	23'-3"	—

Class C Concrete Cu. Yds. 122.2
Reinforcement Bars Lbs. 6320

FOR INFORMATION ONLY

PIER 2
U.B.D. & S.B.D. LANES
E.A.I. RT. 57 - SEC. 38-81
1800015 COUNTY
STA. 1357 + 52

DESIGNED I. Kasper
CHECKED J. B. Nelson
DRAWN W. A. Sausaman
CHECKED J. B. N.

EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

JUNE 7 1965

P-1 Re-drawn 7-21-59 Rev. 11-25-59

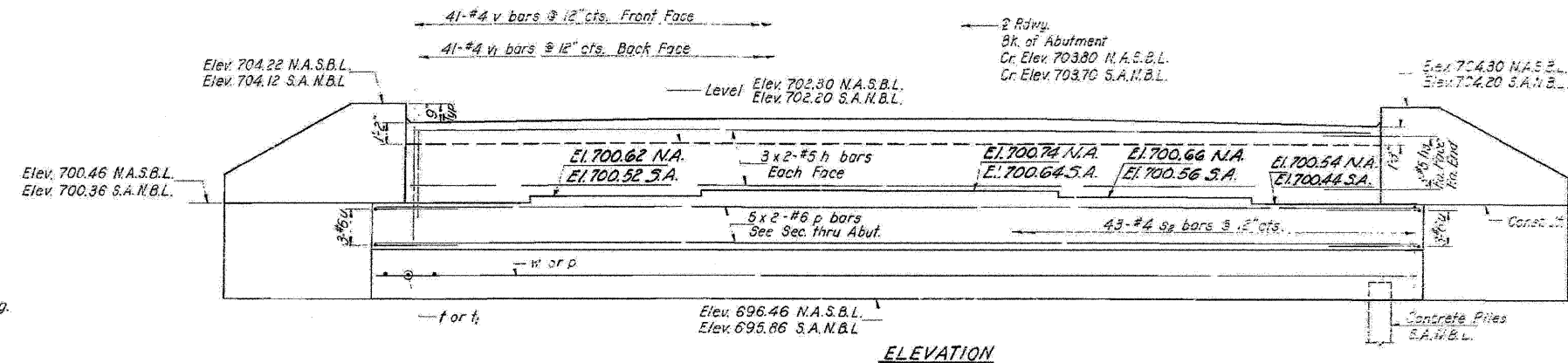
benesch
engineers - scientists - planners

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

FILE NAME = 0380222&0223.66948_039_Exist_Plan_7.dgn	USER NAME = rgram	DESIGNED - JLS	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN INFORMATION (7 OF 9) STRUCTURE NO. 038-02220223 SHEET NO. S39 OF S41 SHEETS	F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 54
PLOT SCALE =	DRAWN - RMG	REVISD -	CONTRACT NO. 66948							
PLOT DATE = 08/18/2011	CHECKED - KJN	REVISD -	ILLINOIS FED. AID PROJECT							

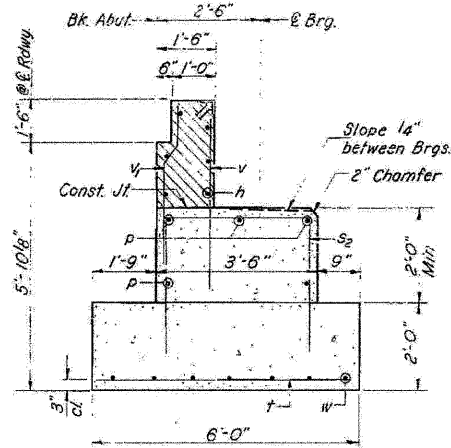
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO. 038-0222
SHEET NO. 2
TOTAL SHEETS 83

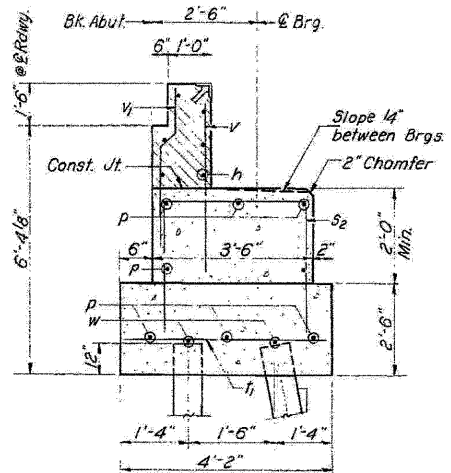


ELEVATION

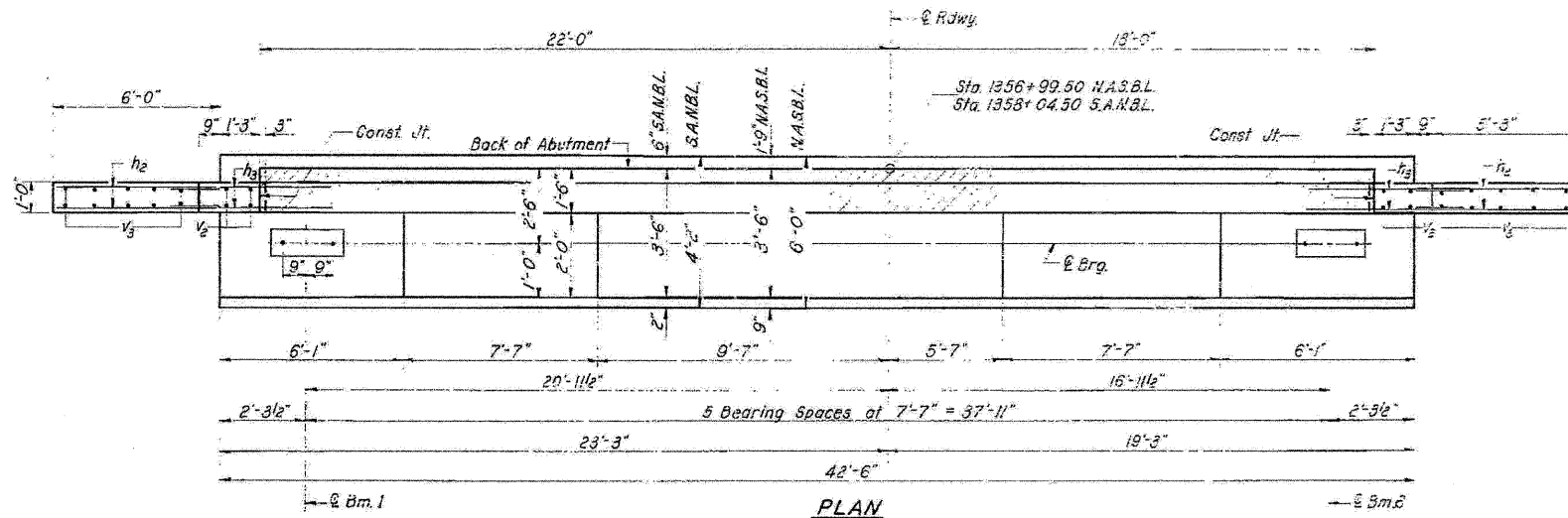
N.A.S.B.L. = North Abut. South Bound Lanes
S.A.N.B.L. = South Abut. North Bound Lanes



SECTION THRU N ABUTMENT S. B. LANES



SECTION THRU S ABUTMENT N. B. LANES

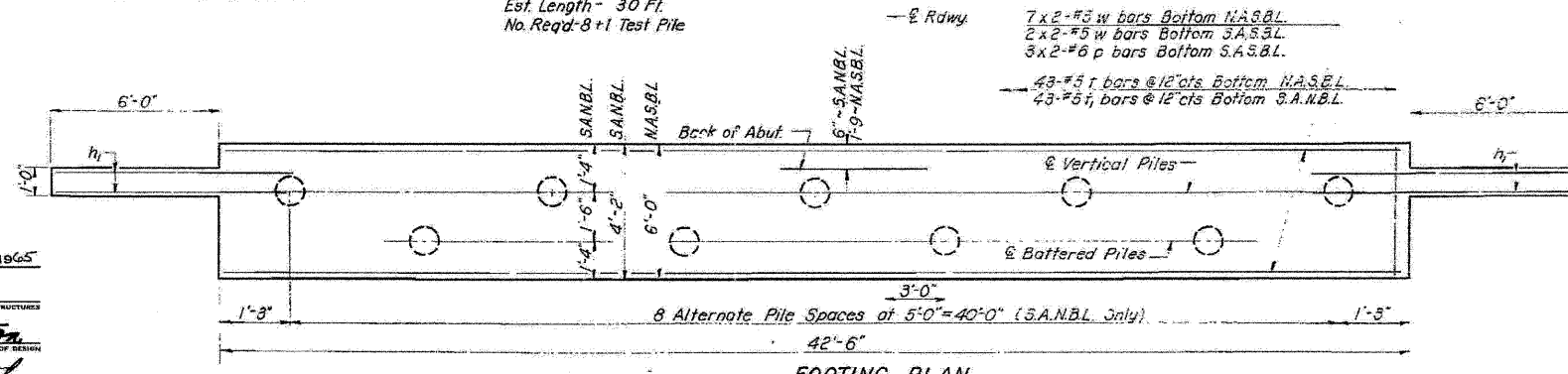


PLAN

Note: Hatched area to be poured after superstructure is in place. Class X Concrete included with Superstructure.

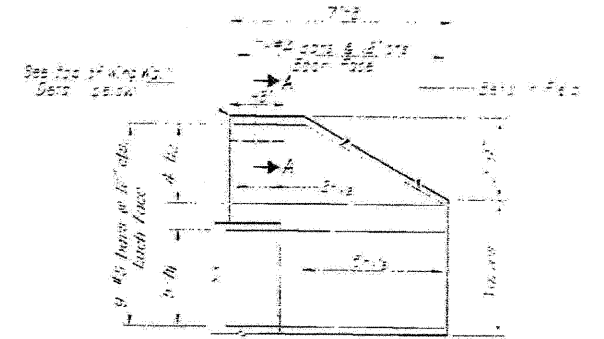
PILE DATA - S. ABUT. N.B. LANES

Type - Concrete
Capacity - 30 Tons
Est. Length - 30 Ft.
No. Req'd - 8 + 1 Test Pile

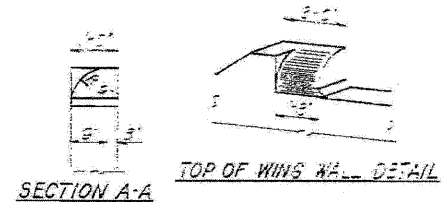


FOOTING PLAN

Max. Soil Pressure = 1.2 Tons/ft² N. Abut. S.B. Lanes



WING WALL ELEVATION



SECTION A-A TOP OF WING WALL DETAIL

TWO ABUTMENTS BILL OF MATERIALS

Bar	Qty	Size	Weight	Volume
BAR U	1	#4	15	0.001
BAR S ₂	1	#4	15	0.001
BAR V	1	#4	15	0.001
2	26	#5	31.5	0.002
3	26	#5	31.5	0.002
4	43	#5	54.5	0.003
5	43	#5	54.5	0.003
6	2	#6	2	0.000
7	2	#6	2	0.000
8	2	#6	2	0.000
9	2	#6	2	0.000
10	2	#6	2	0.000
11	2	#6	2	0.000
12	2	#6	2	0.000
13	2	#6	2	0.000
14	2	#6	2	0.000
15	2	#6	2	0.000

Class X Concrete
Reinforcement Bars
Concrete Piles
Test Piles (Concrete, Spc.)

FOR INFORMATION ONLY

S. ABUT. N.B. LANES &
N. ABUT. S.B. LANES
FAI RT 57 SEC 38-8B
IROQUOIS COUNTY
STA. 1357+52

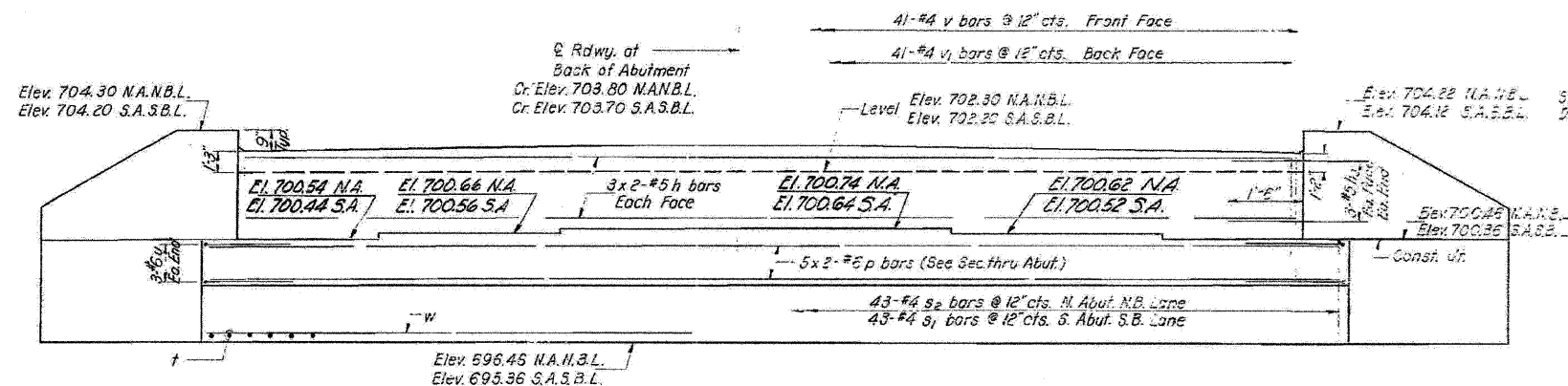
benesch Alfred Benesch & Company
engineers - scientists - planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN INFORMATION (8 OF 9) STRUCTURE NO. 038-0222/0223	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0380222&0223-66948-040-Exist-Plan-8.dgn	rgrmm	JLS	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN INFORMATION (8 OF 9) STRUCTURE NO. 038-0222/0223	57	(38-8) BR & BR-1	IROQUOIS	73	55
		AAY	-	DEPARTMENT OF PUBLIC WORKS & BUILDINGS	STRUCTURE NO. 038-0222/0223			CONTRACT NO. 66948		
		RMG	-	DIVISION OF HIGHWAYS	SHEET NO. S40 OF S41 SHEETS			[ILLINOIS] FED. AID PROJECT		
		KJN	-							

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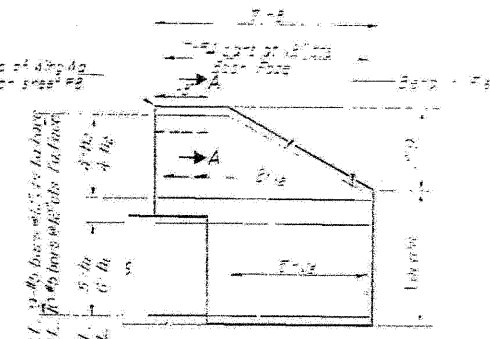
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	REVISED	BY	REASON
11-25-65		JLS	REVISED



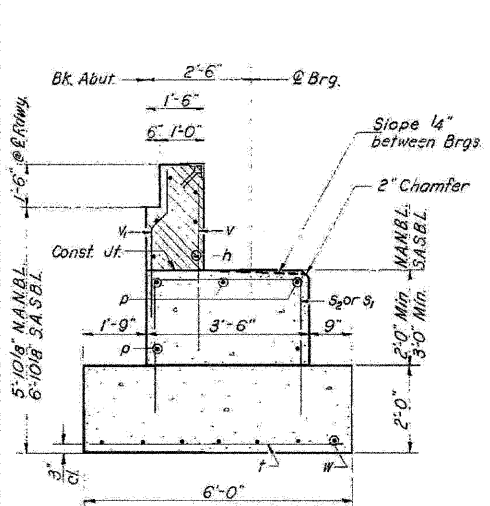
ELEVATION

N.A.N.B.L. = North Abut. North Bound Lanes
S.A.S.B.L. = South Abut. South Bound Lanes



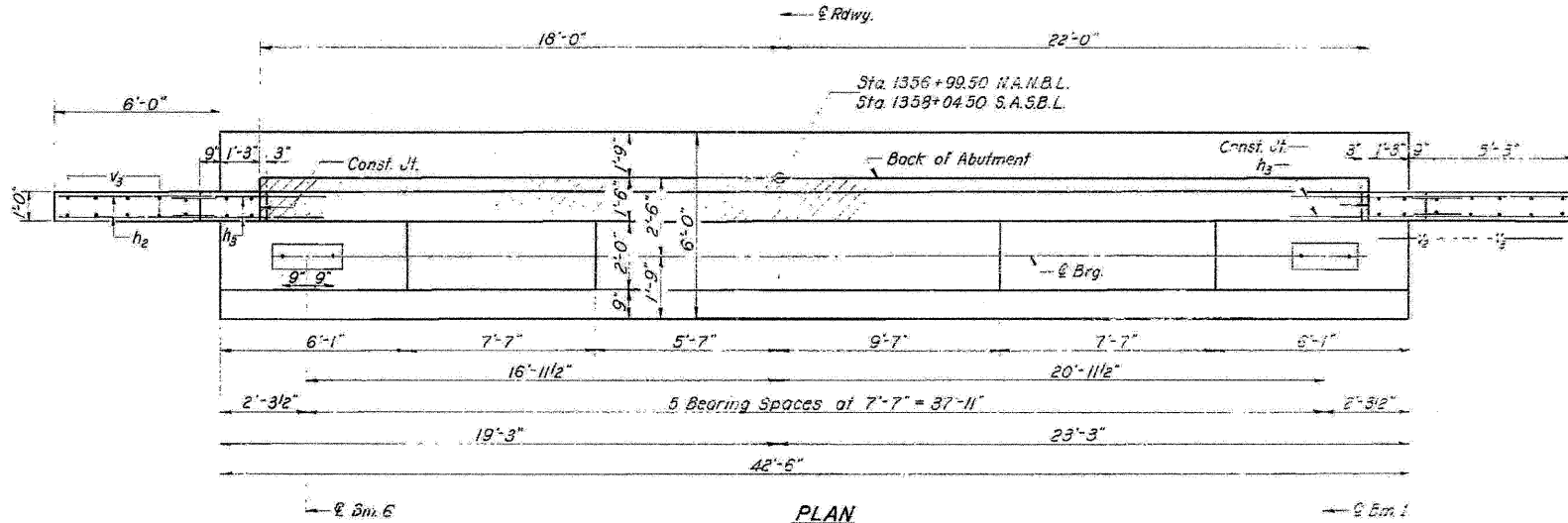
WING WALL ELEVATION

Notes for Section and see 3-10-65



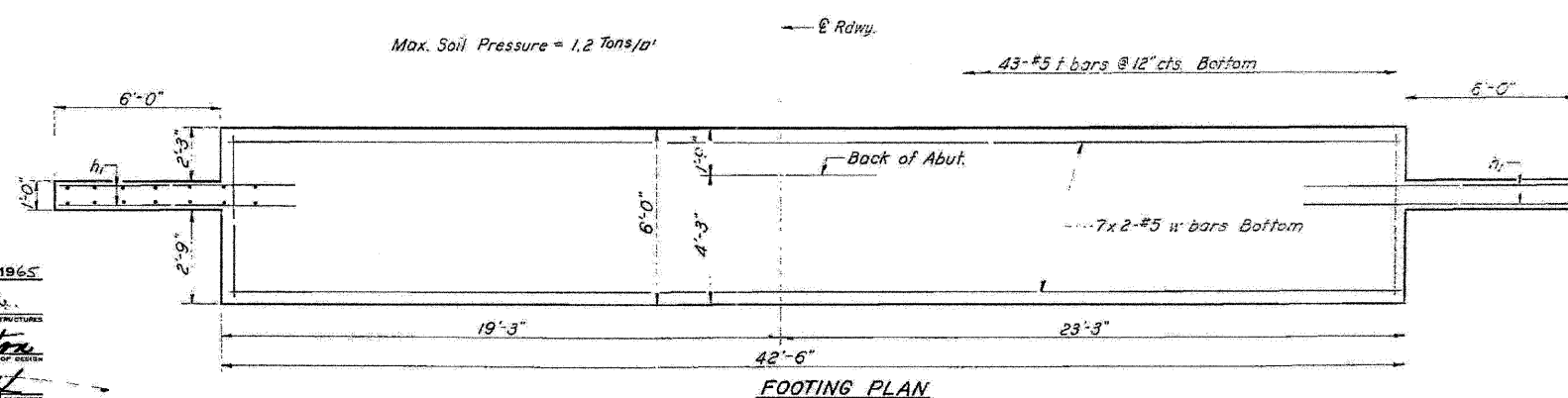
SECTION THRU ABUTMENT

Hatched Area to be poured after
superstructure is in place. Class X
Concrete included with Superstructure

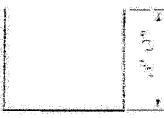


PLAN

Max. Soil Pressure = 1.2 Tons/sq ft



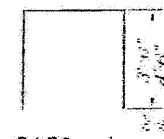
FOOTING PLAN



BAR u



BAR v



BARS s, #5

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Weight	Notes
u	24	#5	2'-0"	120	
v	24	#5	2'-0"	120	
s	10	#5	2'-0"	50	
w	28	#5	2'-0"	140	
t	28	#5	2'-0"	140	
r	28	#5	2'-0"	140	
q	28	#5	2'-0"	140	
p	28	#5	2'-0"	140	
o	28	#5	2'-0"	140	
n	28	#5	2'-0"	140	
m	28	#5	2'-0"	140	
l	28	#5	2'-0"	140	
k	28	#5	2'-0"	140	
j	28	#5	2'-0"	140	
i	28	#5	2'-0"	140	
h	28	#5	2'-0"	140	
g	28	#5	2'-0"	140	
f	28	#5	2'-0"	140	
e	28	#5	2'-0"	140	
d	28	#5	2'-0"	140	
c	28	#5	2'-0"	140	
b	28	#5	2'-0"	140	
a	28	#5	2'-0"	140	
W	28	#5	2'-0"	140	

Class A Concrete
Reinforcement Bars - 4500

FOR INFORMATION ONLY

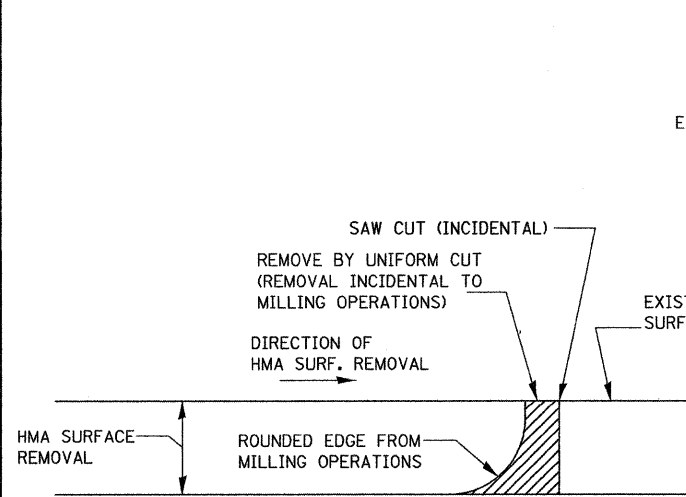
N. ABUT. N.B. LANES &
S. ABUT. S.B. LANES
F.A.I. RT. 57 SEC. 38-8B
IROQUOIS COUNTY
STA. 1357+52

DESIGNED	I. Kaspar	EXAMINED	June 7 1965
CHECKED	J.B.M.	PASSED	H.J. Altman
DRAWN	J.L. Armstrong	APPROVED	J.C. Deff
CHECKED	J.B.M.		

benesch
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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3938.09

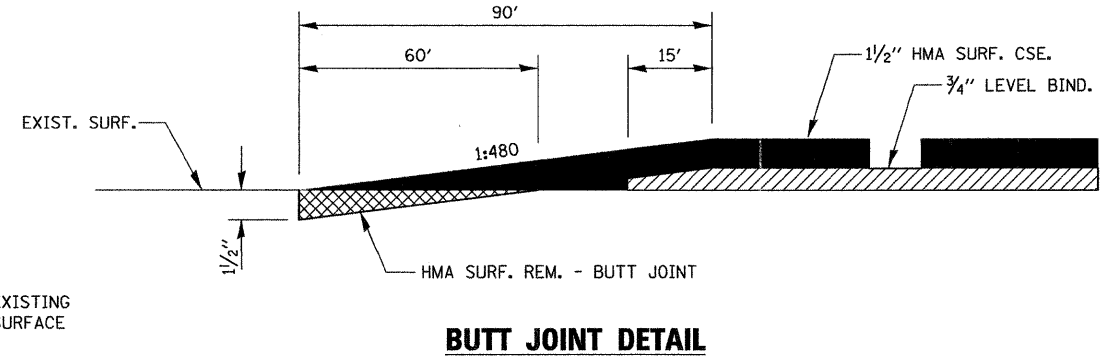
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		CHECKED - AAY	REVISOR -								ILLINOIS FED. AID PROJECT
		DRAWN - RMG	REVISOR -								
		PLOT SCALE -	REVISOR -								
		PLOT DATE = 08/18/2011	REVISOR -								
		CHECKED - KJN	REVISOR -								

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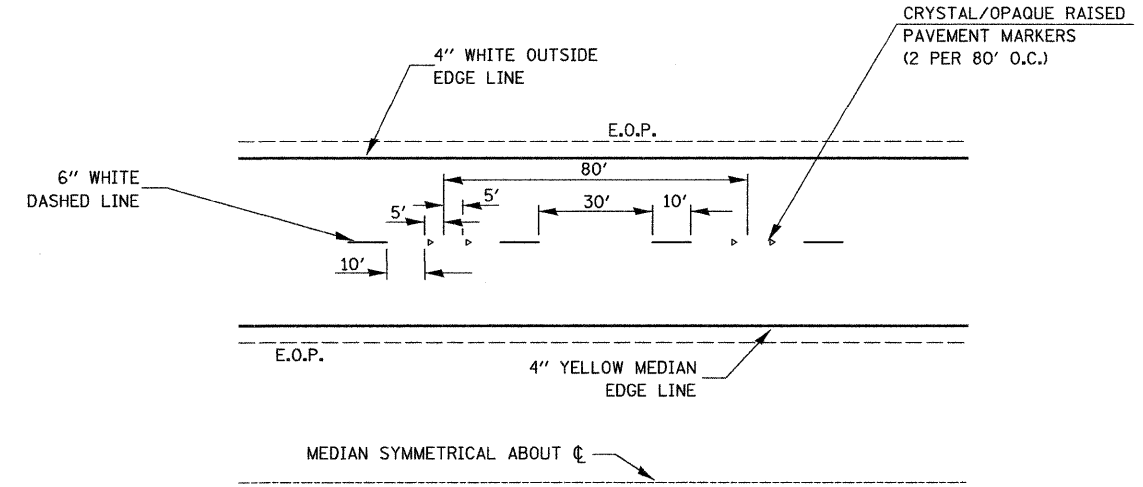


WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

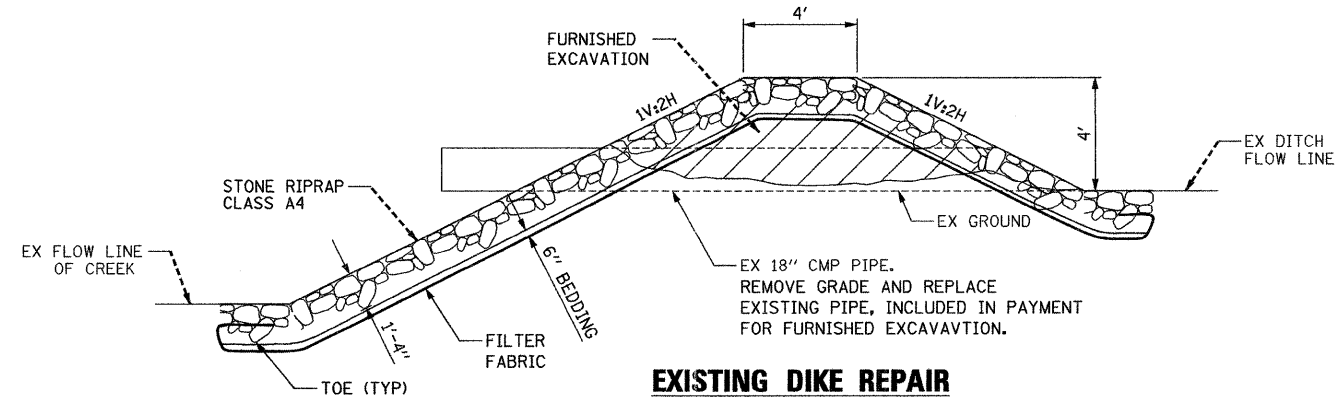
HMA DETAIL AT BUTT JOINTS



BUTT JOINT DETAIL

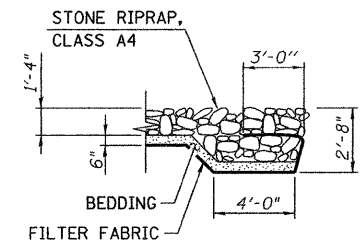


TYPICAL PAVEMENT MARKINGS



EXISTING DIKE REPAIR

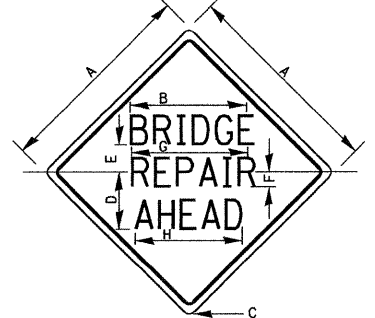
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 APPROX LOCATIONS:
 FAI-57 STA 1357+12, 98' RT
 FAI-57 STA 1357+12, 120' LT
 FAI-57 STA 1357+92, 105' RT
 FAI-57 STA 1357+92, 132' LT



TOE DETAIL

(ALONG SIDES AND ENDS)

ILLINOIS STANDARD W21-1102



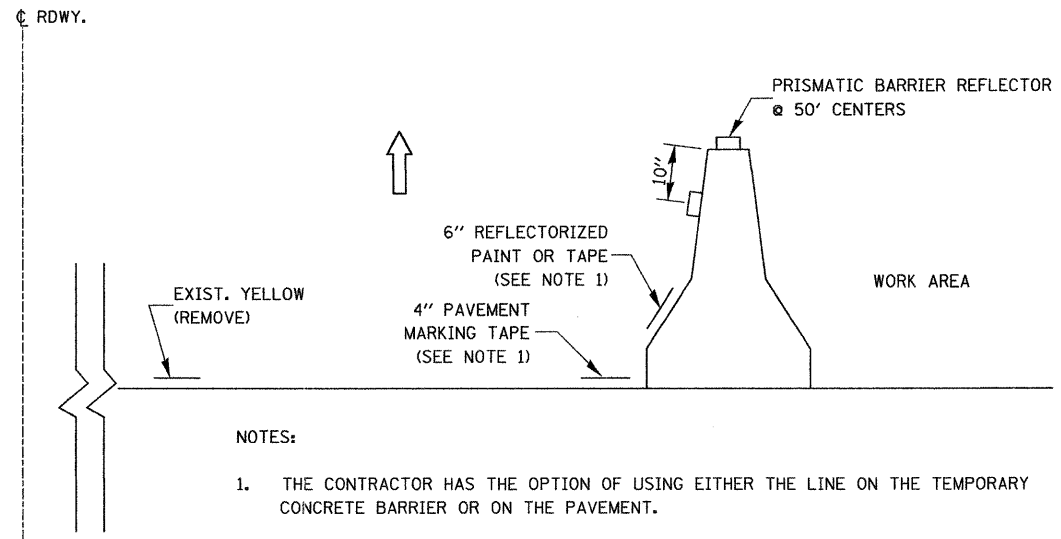
COLOR: LEGEND AND BORDER BLACK BACKGROUND ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
36 x 36	36.0	22.3	2.25	10.8	5.6	3.0	21.9	20.7
48 x 48	48.0	26.0	3.0	14.5	7.5	3.5	25.5	24.1

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
	36 x 36	5C	5C			
48 x 48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES.

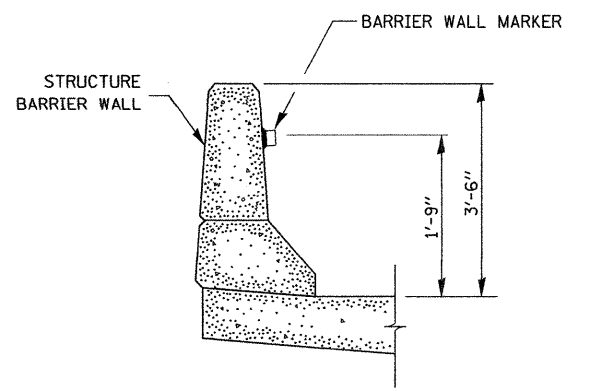
SIGN DETAIL AT BRIDGE



NOTES:

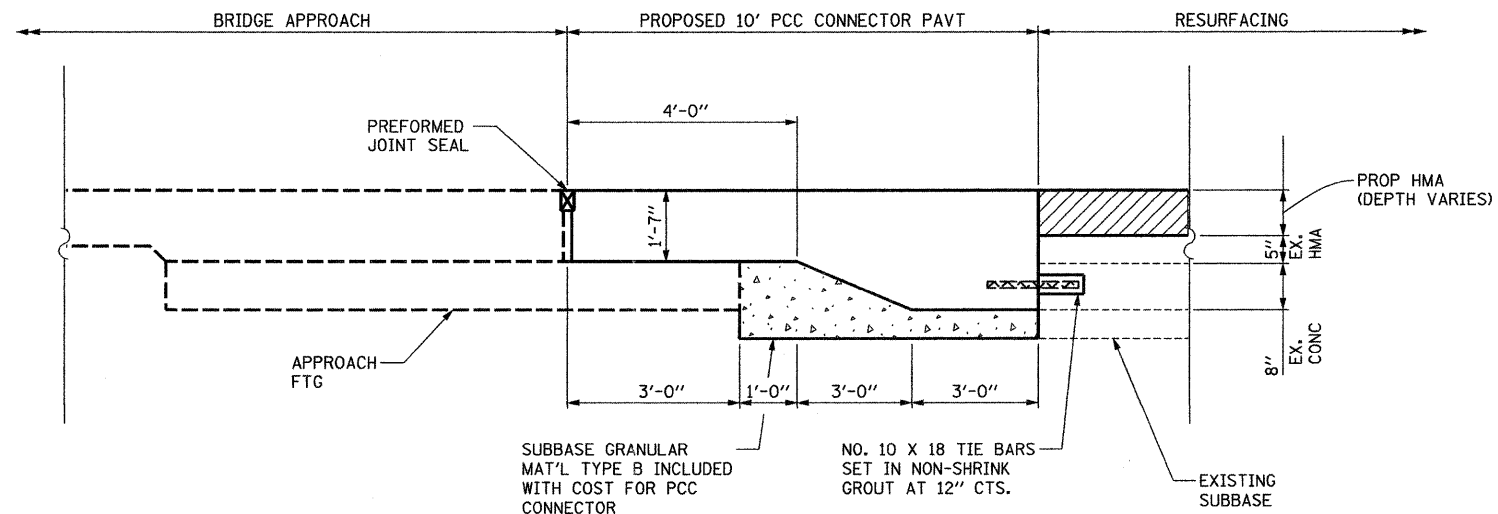
1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

TEMPORARY BARRIER REFLECTOR DETAIL



BARRIER WALL MARKER

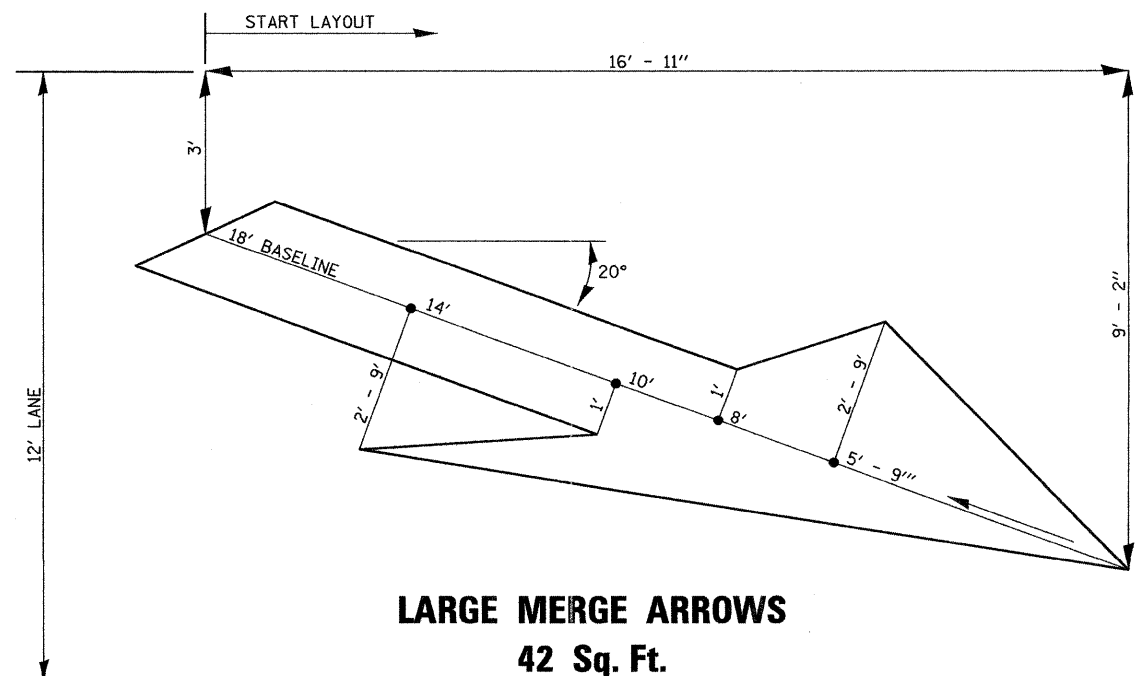
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 engineers - scientists - planners
 Alfred Benesch & Company
 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450
 Job No. 3938.08



BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

NOTES:

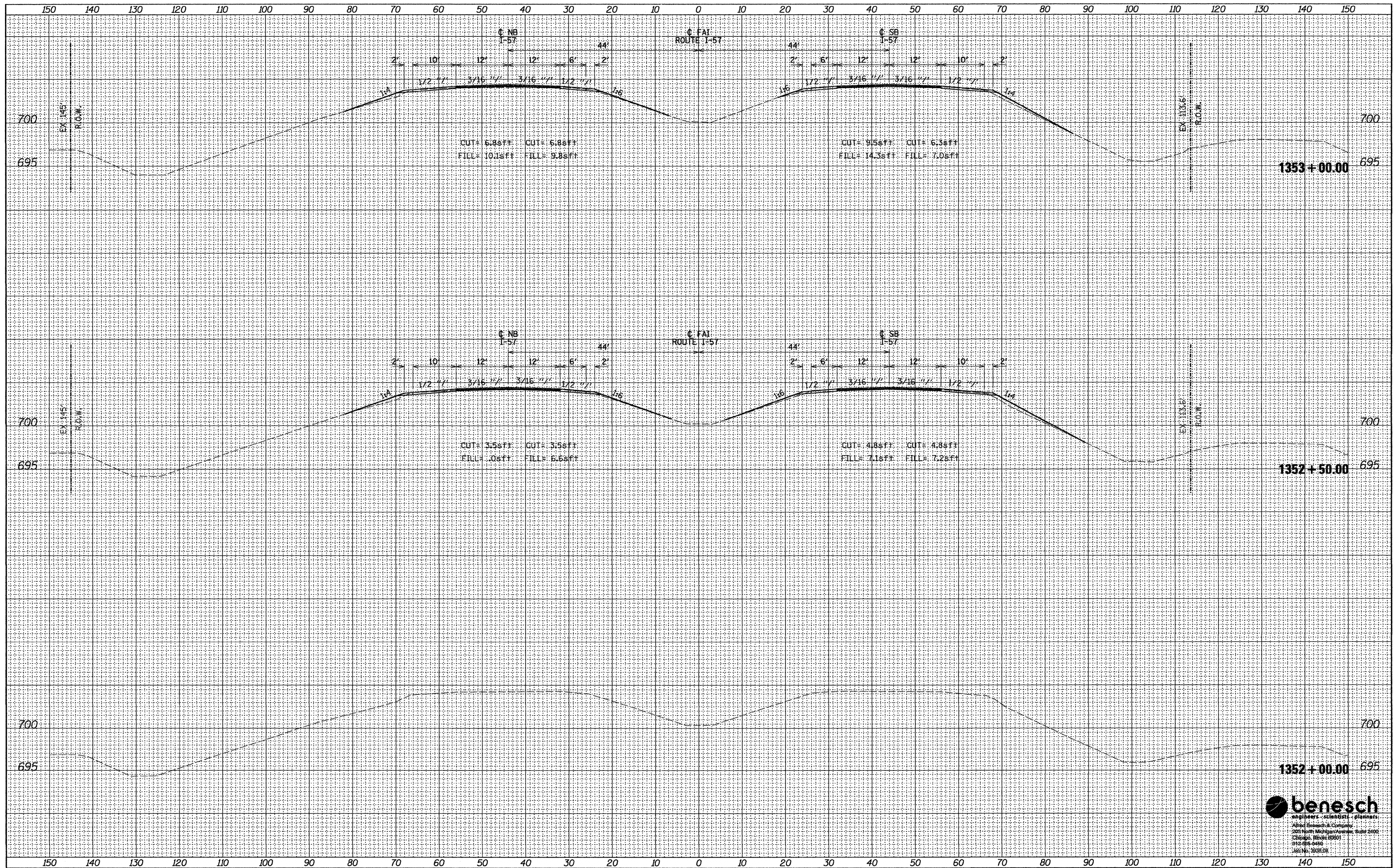
1. SEE HWY. STD. 420401 FOR DETAILS NOT SHOWN.
2. A LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE) AS SHOWN ON HWY. STD. 420001 SHALL BE CONSTRUCTED ALONG THE STAGE CONSTRUCTION LINE FOR THE FULL 10' LENGTH OF THE PCC CONNECTOR PAVEMENT. COST IS INCLUDED WITH "BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)".
3. SEE HWY. STD. 421001 FOR REINFORCEMENT DETAILS NOT SHOWN. REINFORCEMENT SHALL BE PAID FOR AS "PAVEMENT REINFORCEMENT".
4. THE TOP SURFACE OF THE BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SHALL RECEIVE A PROTECTIVE COAT APPLICATION ACCORDING TO THE ARTICLE 420.18 OF THE STANDARD SPECIFICATIONS. COST IS INCLUDED WITH "PROTECTIVE COAT" (42001300).



FILE NAME = ...final\0366948-sht-details2.dgn	USER NAME = kholz	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY DETAILS	F.A.I. RTE. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 58	
	PLOT SCALE = #SCALE#	CHECKED - JMS	REVISED -			SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. 1352+20 TO STA. 1362+80	CONTRACT NO. 66948		
	PLOT DATE = 8/19/2011	DATE - 08/19/2011	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = ...\\fina1\066948-aht-xshht.dgn

USER NAME = kholc
 DESIGNED - JDC
 DRAWN - MDW
 CHECKED - JMS
 DATE - 8/19/2011

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

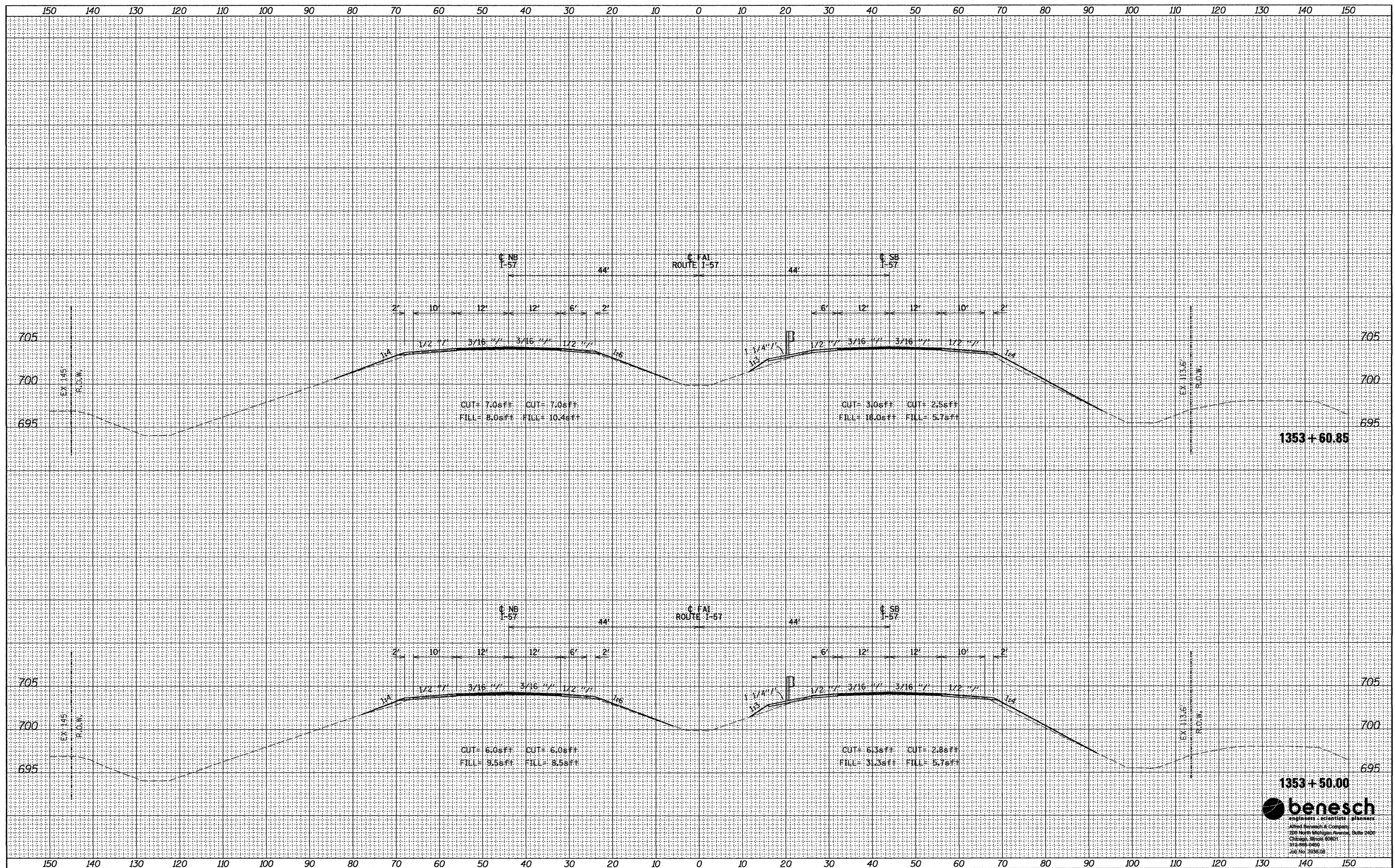
SCALE: 1"=10'H/5'V SHEET NO. 1 OF 15 SHEETS STA. 1352+00.00 TO STA. 1353+00.00

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	59
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 2 OF 15 SHEETS STA. 1353+50.00 TO STA. 1353+60.85

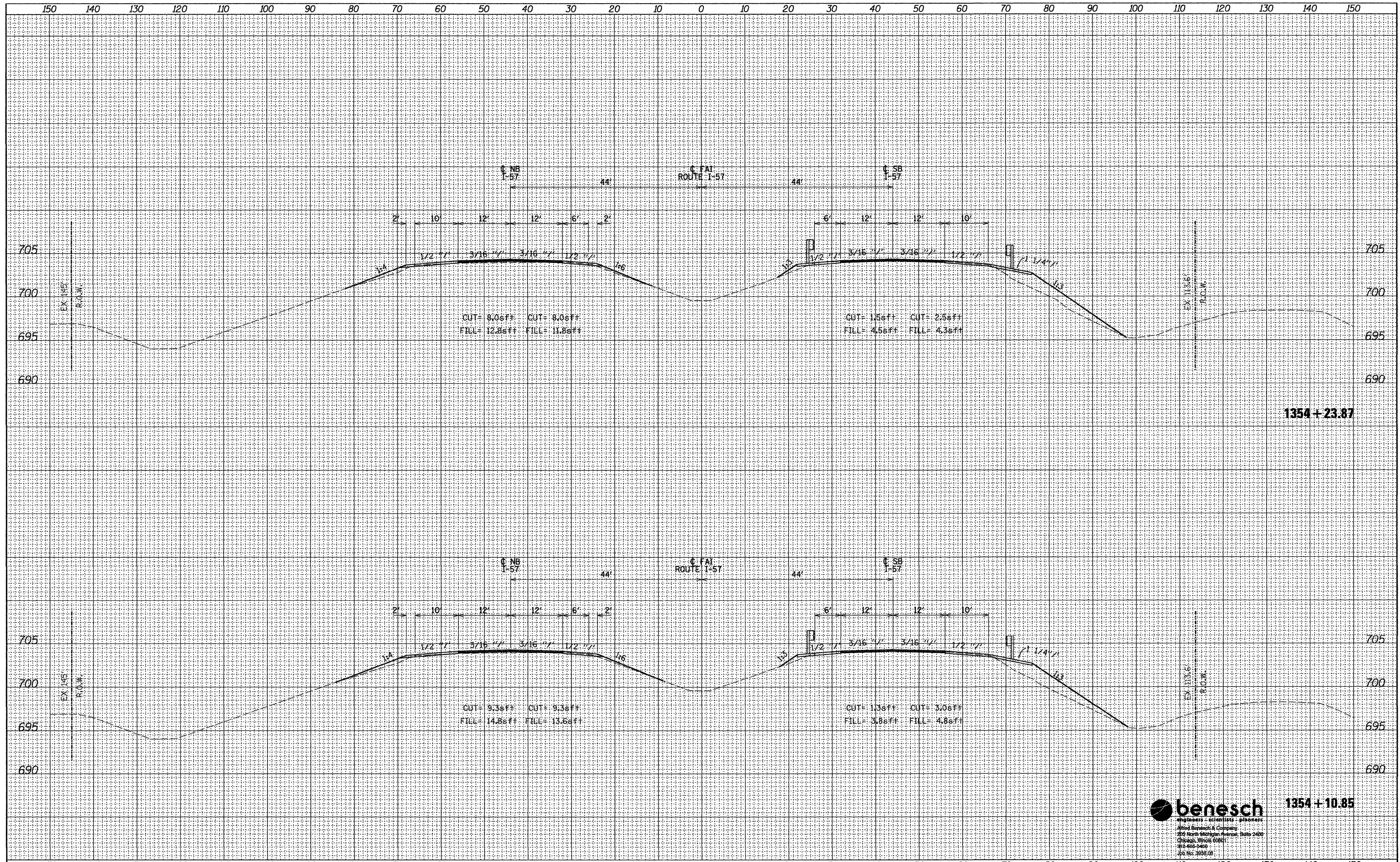
F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	60
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

1353 + 50.00

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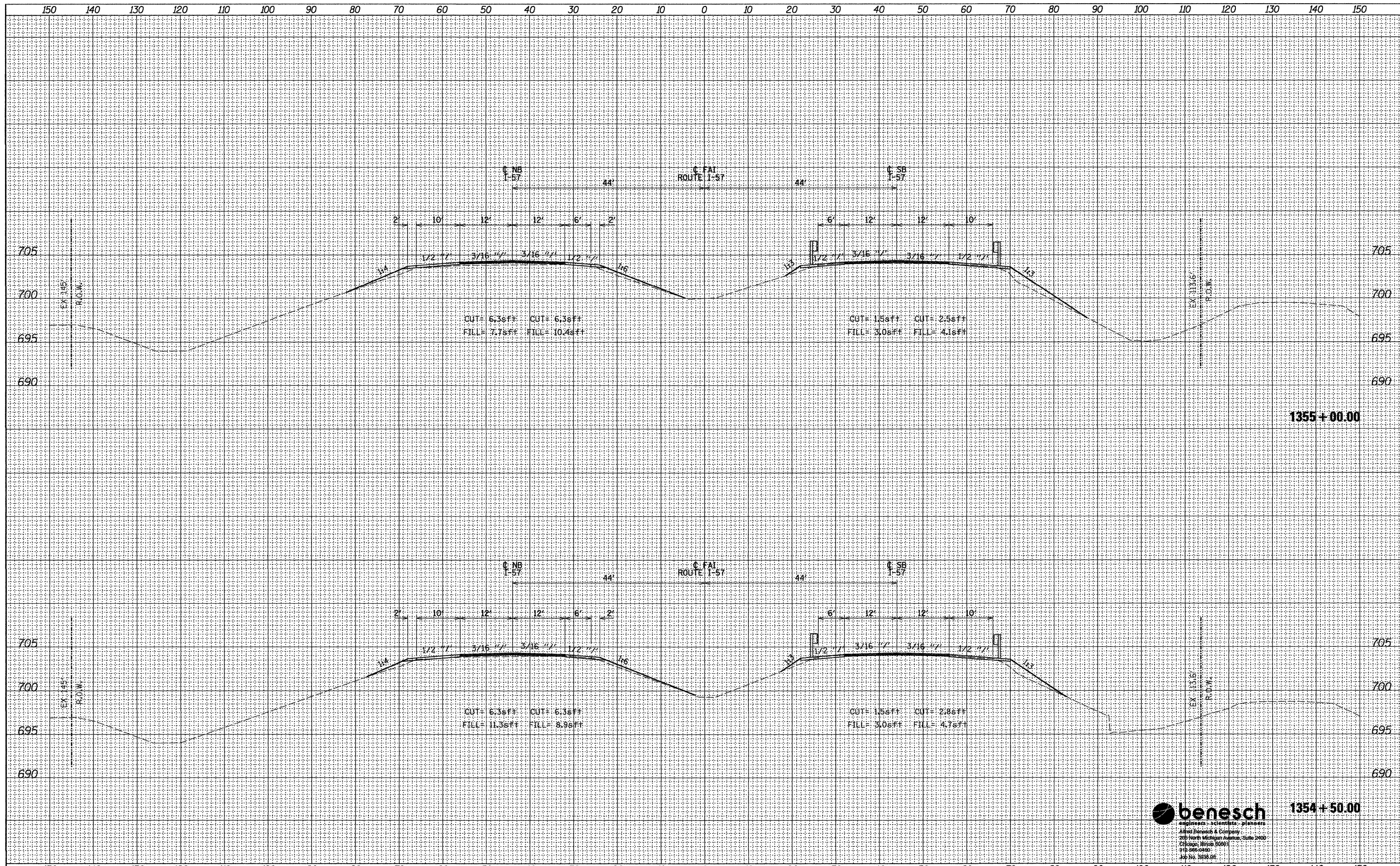


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 Fax No. 312-466-0818

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	PLOT SCALE = #SCALE#	DRAWN - MDW	REVISED -			SCALE: 1"=10'H/5'V	SHEET NO. 4 OF 15 SHEETS	STA. 1354+10.85	TO STA. 1354+23.87	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 03/15/2011	CHECKED - JMS	REVISED -								
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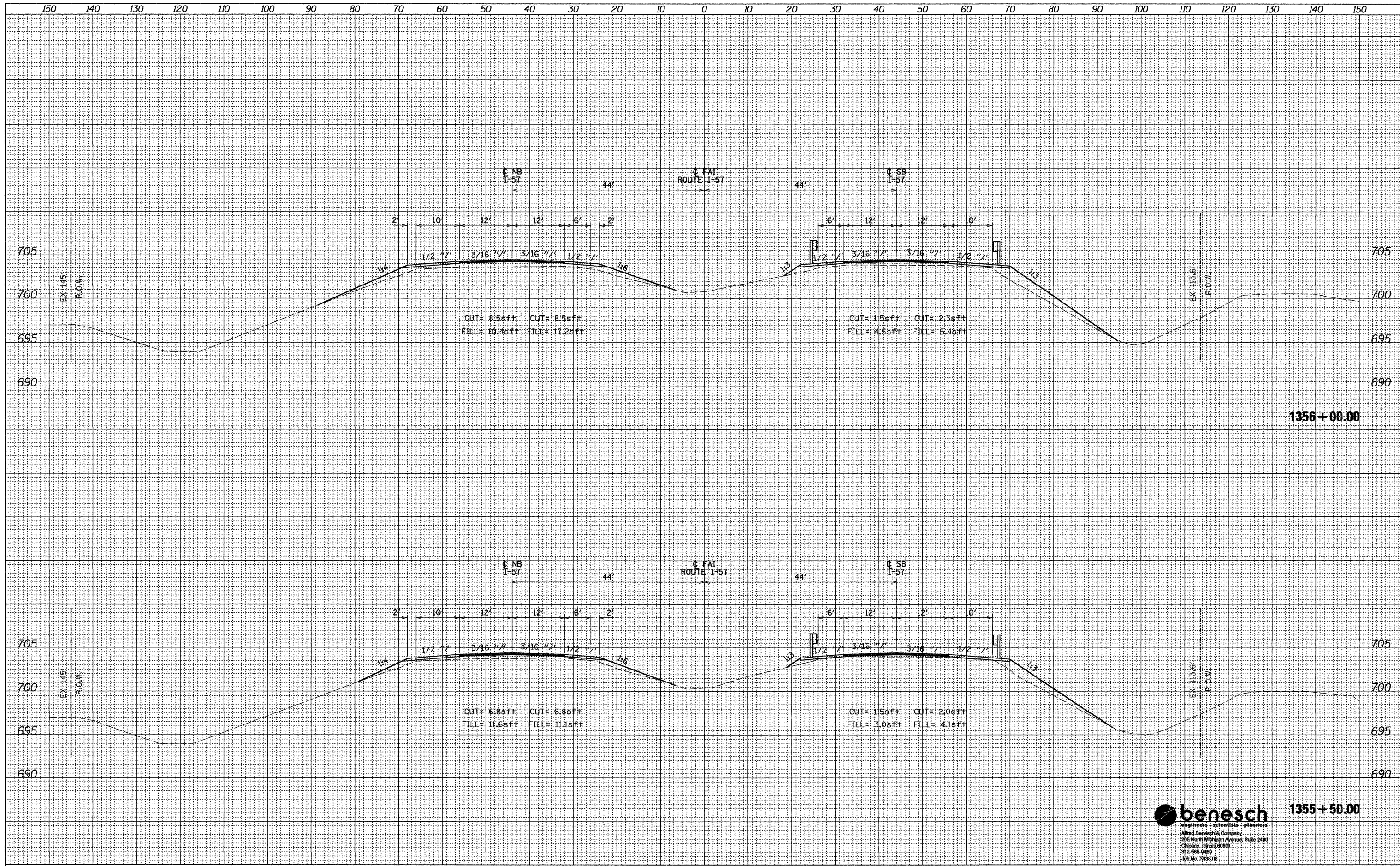


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	PLOT SCALE = #SCALE#	DRAWN - MDW	REVISED -			SCALE: 1"=10'H/5'V	SHEET NO. 5 OF 15 SHEETS	STA. 1354+50.00 TO STA. 1355+00.00	CONTRACT NO. 66948			
	PLOT DATE = 03/15/2011	CHECKED - JMS	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE - 8/19/2011	REVISED -									

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**STATE OF ILLINOIS
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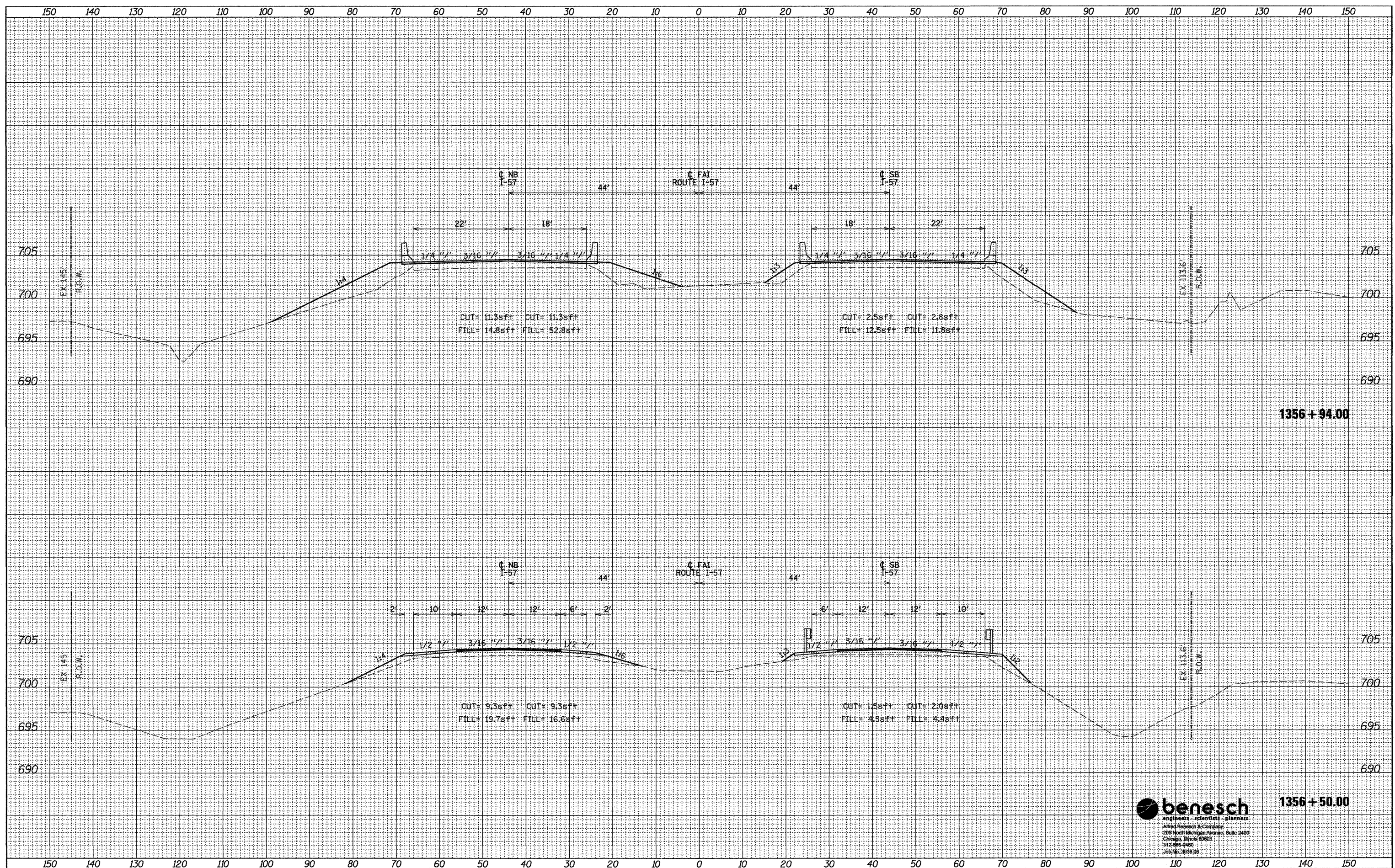
CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 6 OF 15 SHEETS STA. 1355+50.00 TO STA. 1356+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	64
			CONTRACT NO.	66948
ILLINOIS FED. AID PROJECT				

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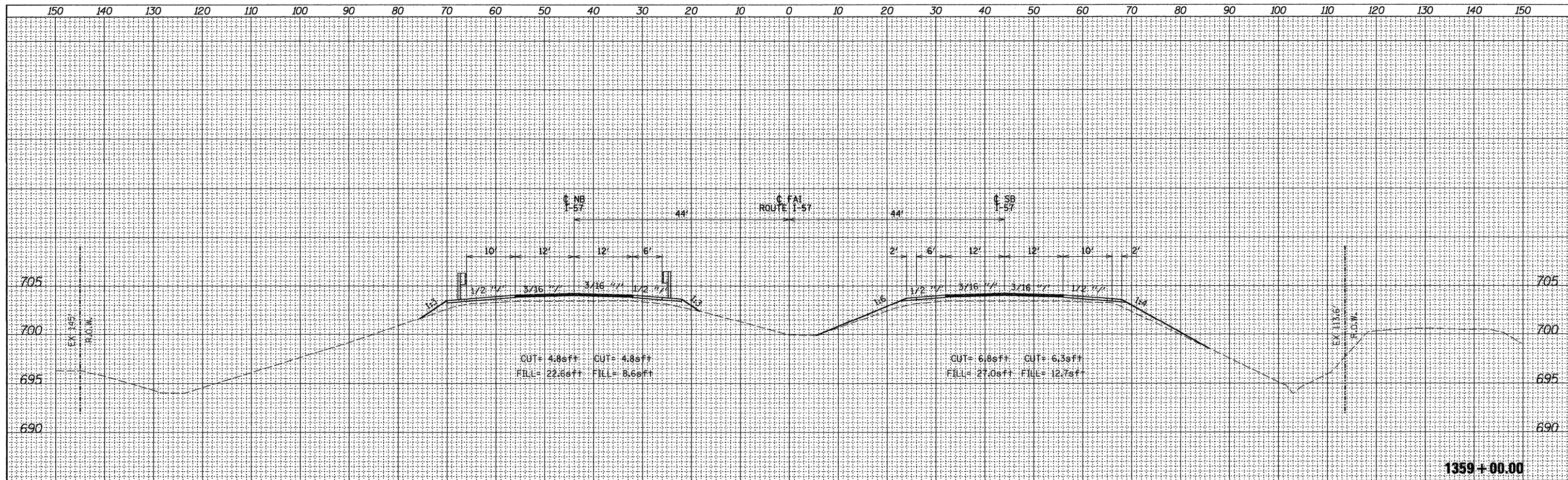
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STATE OF ILLINOIS
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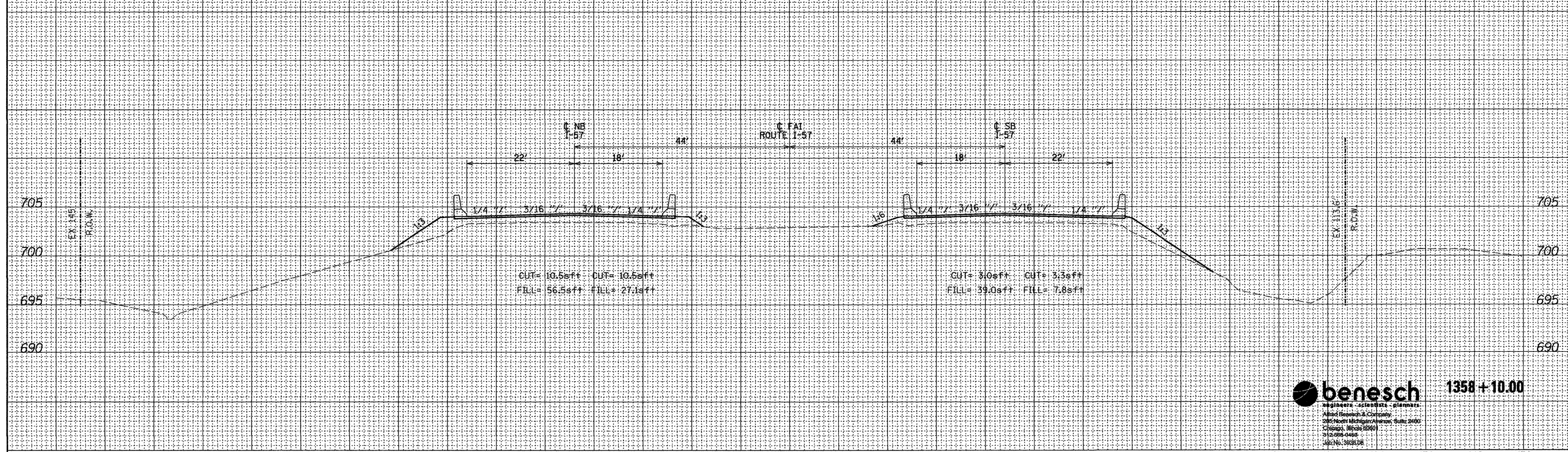
CROSS SECTIONS
 SCALE: 1"=10'H/5'V SHEET NO. 7 OF 15 SHEETS STA. 1356+50.00 TO STA. 1356+94.00

F.A.T. R.T.E. 57	SECTION (38-8) BR & BR-1	COUNTY IROQUOIS	TOTAL SHEETS 73	SHEET NO. 65
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				

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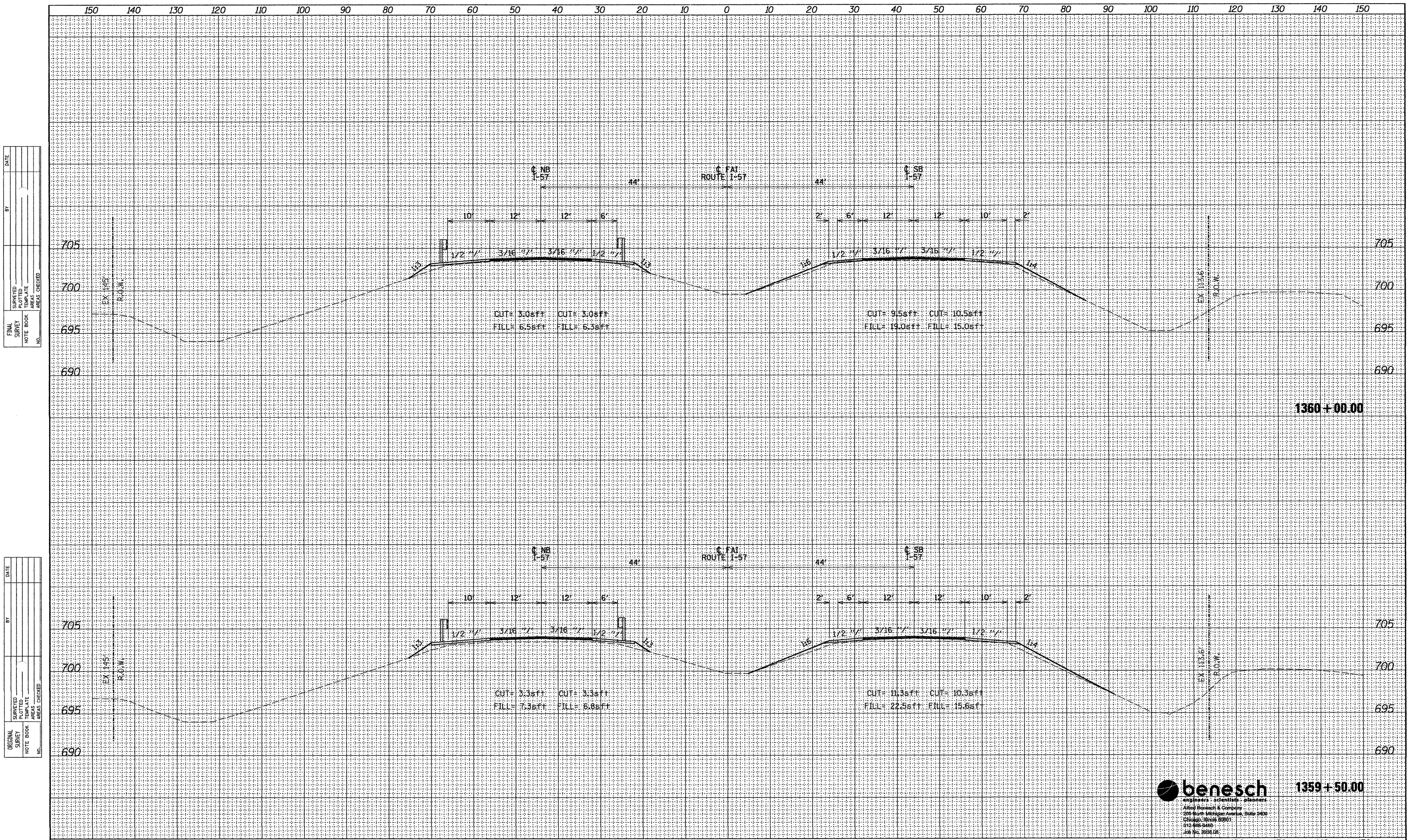
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 8 OF 15 SHEETS STA. 1358+50.00 TO STA. 1359+00.00

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	66
			CONTRACT NO. 66948	
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
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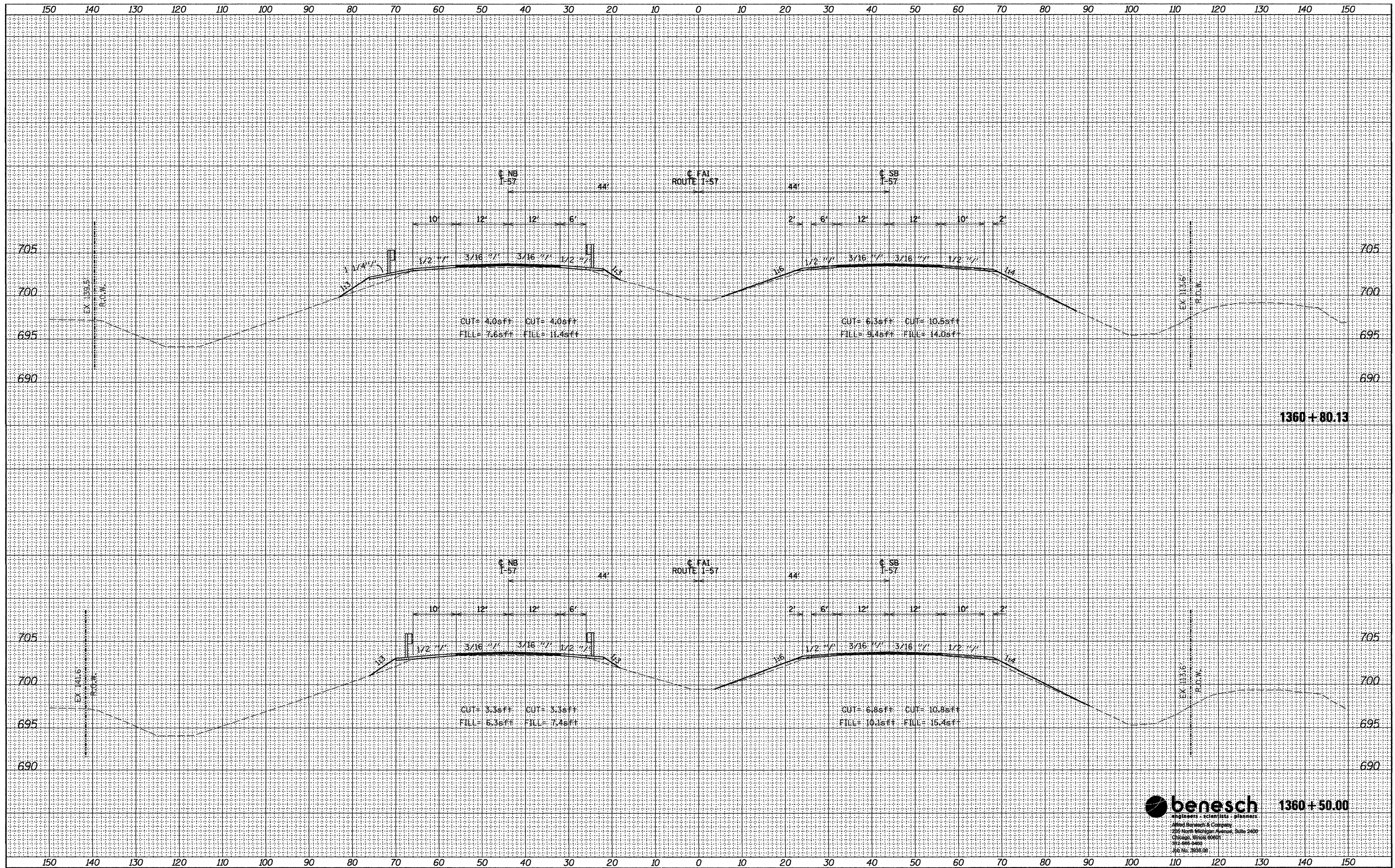
CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 9 OF 15 SHEETS STA. 1359+50.00 TO STA. 1360+00.00

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	67
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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 DEPARTMENT OF TRANSPORTATION**

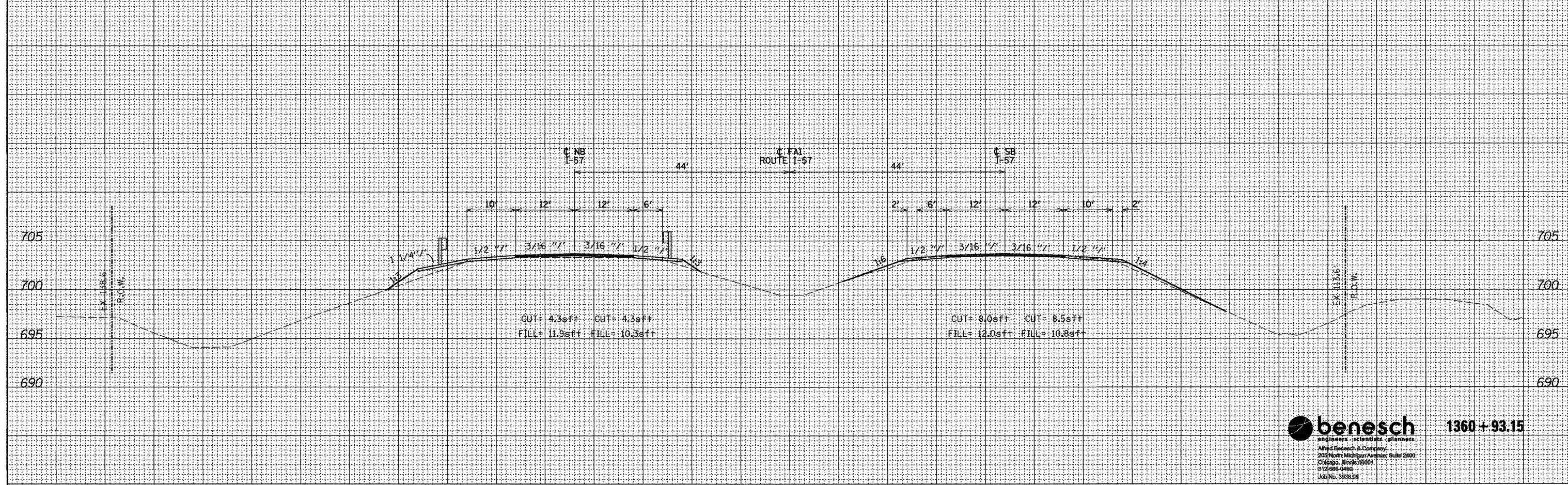
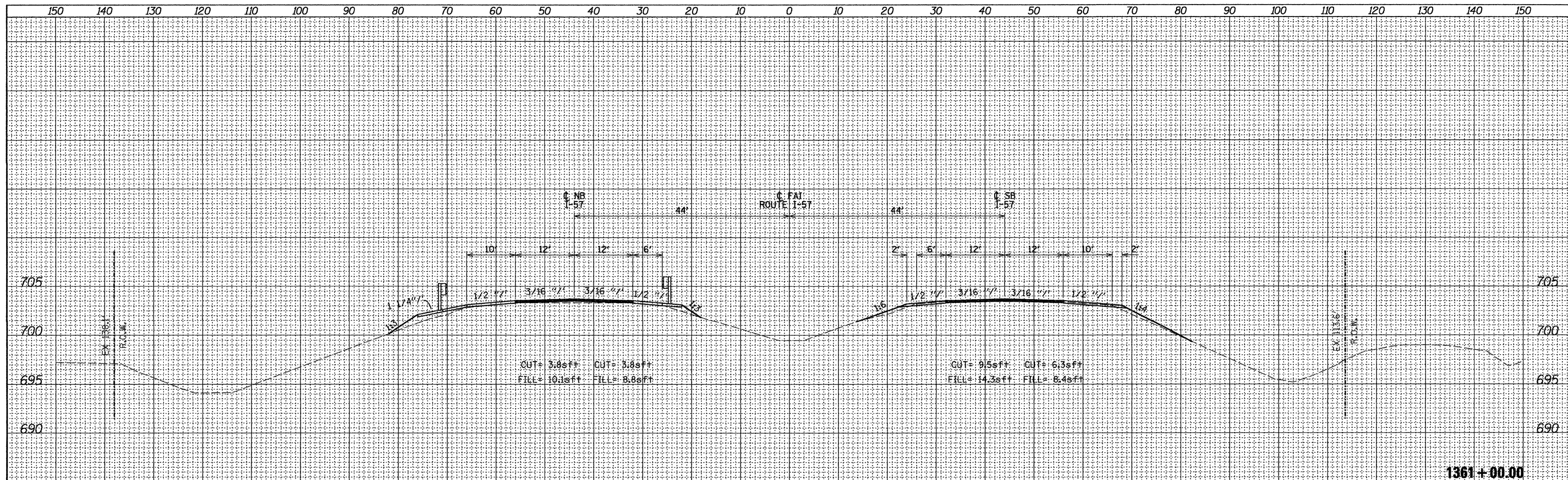
CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 10 OF 15 SHEETS STA. 1360+50.00 TO STA. 1360+80.13

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	68
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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 DEPARTMENT OF TRANSPORTATION**

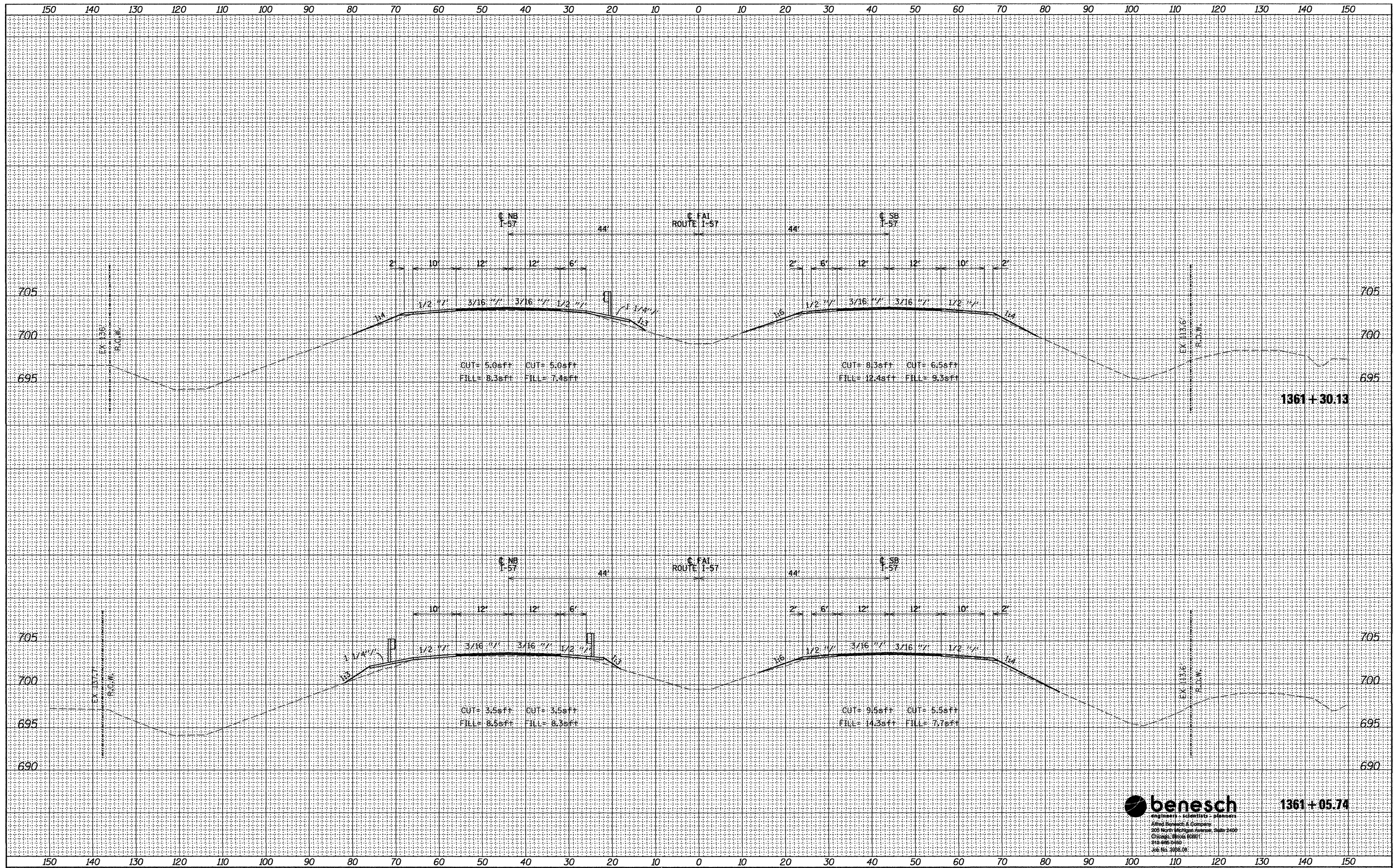
CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 11 OF 15 SHEETS STA. 1360+93.15 TO STA. 1361+00.00

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	69
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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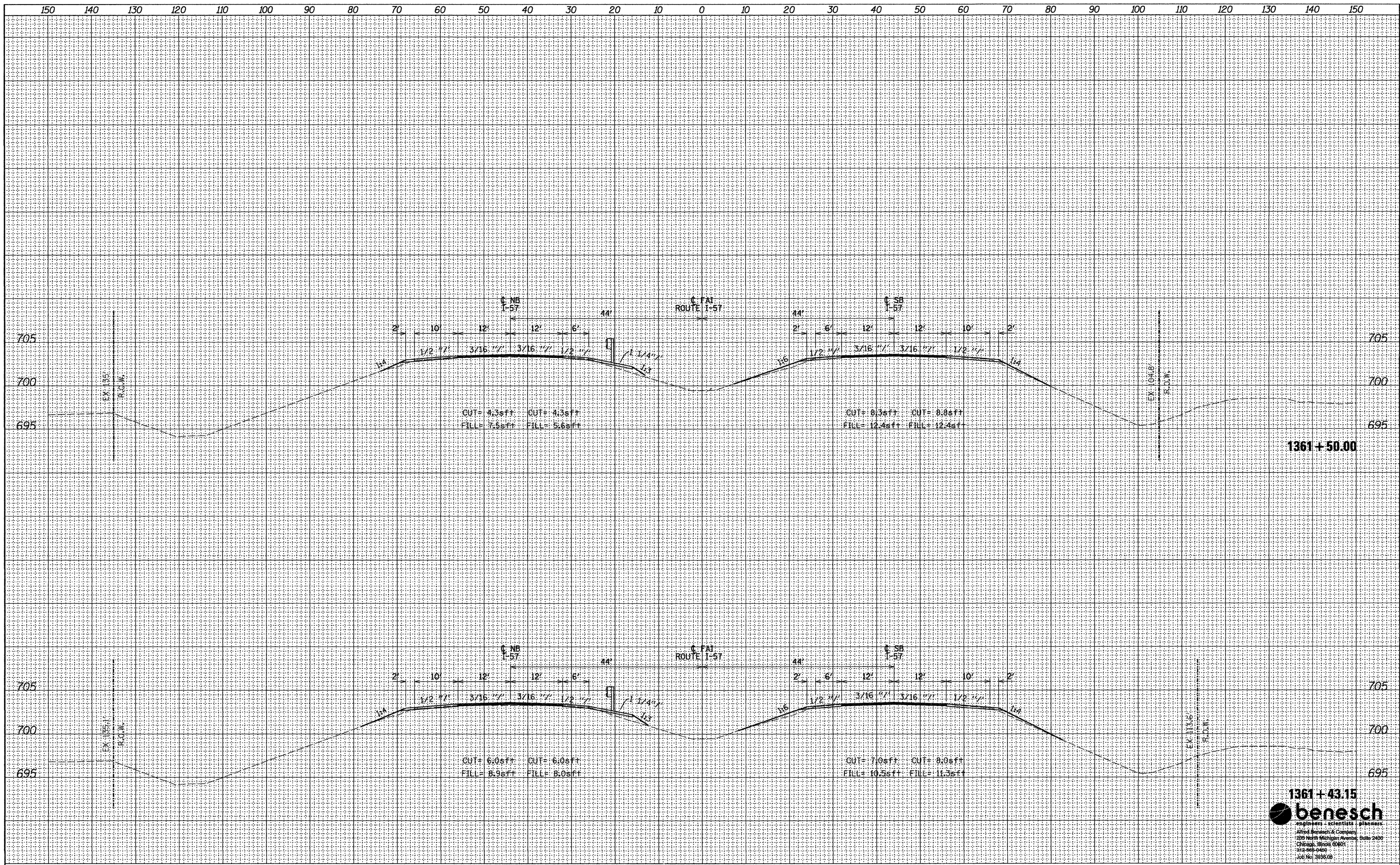
CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 12 OF 15 SHEETS STA. 1361+05.74 TO STA. 1361+30.13

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	70
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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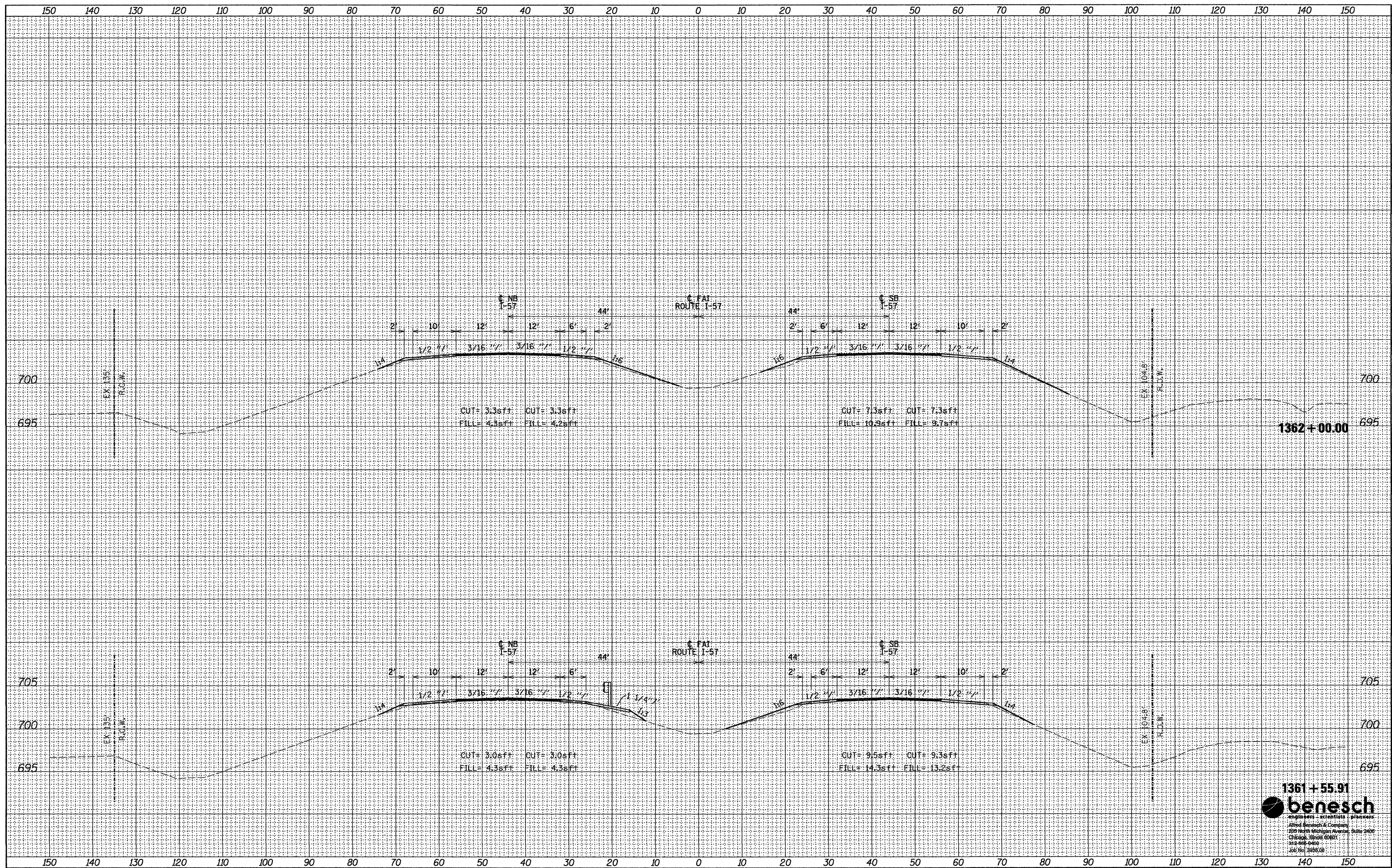


1361 + 43.15
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PLOT DATE = 03/15/2011		CHECKED - JMS	REVISED -			ILLINOIS FED. AID PROJECT		CONTRACT NO. 66948			
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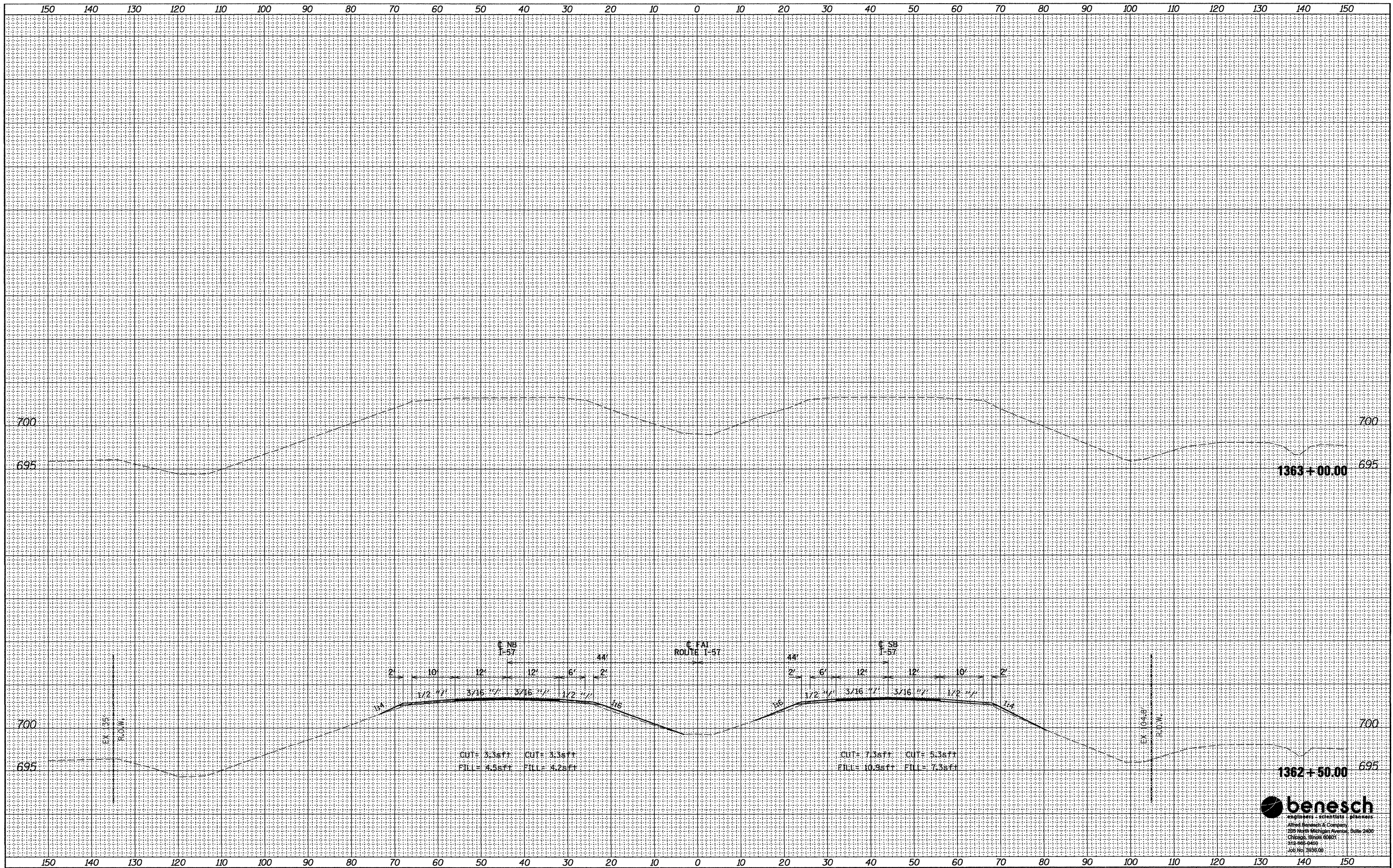
CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 14 OF 15 SHEETS STA. 1361+55.91 TO STA. 1362+00.00

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	72
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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CROSS SECTIONS

SCALE: 1"=10'H/5'V SHEET NO. 15 OF 15 SHEETS STA. 1362+50.00 TO STA. 1363+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-8) BR & BR-1	IROQUOIS	73	73
CONTRACT NO. 66948			ILLINOIS FED. AID PROJECT	

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