## STATE OF ILLINOIS

# DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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PROJECT LOCATED IN
THE VILLAGE OF FRANKFORT

LOCATION OF PROJECT

U.S. RTE. 45 (LAGRANGE ROAD)

OVER JACKSON CREEK

TRAFFIC DATA

2001 ADT = 5,400

POSTED SPEED = 45 MPH

# PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 330 (U.S. RTE. 45)
OVER JACKSON CREEK
SECTION: 104B-3-BR
BRIDGE DECK REPLACEMENT
-PROJECT:

WILL COUNTY C-91-431-06

R. 12 E.

INTERING STEELER RO.

LABRANAT ED.

STEELER RO.

LABRANAT ED.

STEELER RO.

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STEELER RO.

STEELER R

US 45 OVER JACKSON CREEK
EXISTING SN: 099 - 2005
PROPOSED SN: 099-4649
REMOVE EXISTING SINGLE SPAN
PRECAST PRESTRESSED CONCRETE
DECK BEAM STRUCTURE AND
CONSTRUCT THREE SIDED PRECAST
CONCRETE STRUCTURE 32' X 10'

PROJECT ENGINEER: J.P. CHANG (847) 705–4432 PLAN PREPARATION ENGINEER: KEN ENG

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

GROSS & NET LENGTH OF PROJECT = 550 FEET = 0.10 MILE

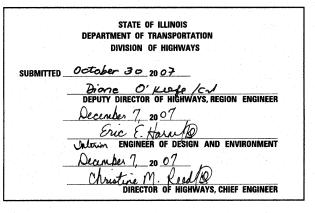
**CONTRACT NO. 60B80** 

1-800-892-0123 OR 811

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#### D-91-431-06





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#### INDEX OF SHEETS

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41-42	CROSS SECTIONS

#### GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF FRANKFORT.

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER, AT (815) 485-6475 A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

#### STATE STANDARDS

STANDARD NO.

DESCRIPTION

000001-05 TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS

280001-04 TEMPORARY EROSION CONTROL SYSTEMS

482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT

630001-07 STEEL PLATE BEAM GUARDRAIL

630201-05 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL

630301-04 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS

631011-04 TRAFFIC BARRIER TERMINAL, TYPE 2

631026-04 TRAFFIC BARRIER TERMINAL, TYPE 5 & 5A

631031-06 TRAFFIC BARRIER TERMINAL, TYPE 6

635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT

701006-02 OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS > 45 MPH

701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH

701321-09 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

701901 TRAFFIC CONTROL DEVICES

704001-04 TEMPORARY CONCRETE BARRIER

E NAME :	USER NAME = smithkl	DESIGNED -	REVISED ~
projects\p135202\design_aa.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 12/4/2007	DATE -	REVISED -
	PLOT DATE = 12/4/2007	DATE -	REVISED -

			CON.	TRAC	IT NO.	60B80
F.A.P. RTE.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO,
330	1048-3-BR		WILL		42	3
FED.	ROAD DIST. NO. 1	ILL	INOIS	HIG	HWAY PRO	JECT

	SUMMARY OF QUANTITIES				<u> </u>	CONSTRUCTIO	ON TYPE	CODE	T :: 1	1	SUMMARY OF QUANTITIES		100% STATE		· · · · · · · · · · · · · · · · · · ·	CONSTRUC	TION TYPE	CODE	T
CODE NO	ITEM	UNIT	100% STATE TOTAL QUANTITIES	ROADWAY IOOO - 2A	BRIDGE XO28-2A	-				CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
382		:						<u> </u>						I.000-ZA	X028-24				
83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS4. WITH 15	EACH	6	6						40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	6	6					
XX007024	PRECAST CONCRETE (THREE-SIDED) STRUCTURE, 32' X 10'	FOOT	43		43					40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	191	191					
20200100	EARTH EXCAVATION	CU YD	122	122						44000100	PAVEMENT REMOVAL	SQ YD	125	125					
20201006	GRADING AND SHAPING SHOULDERS	UNIT	2	2						44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1300	1300					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	389	389	-					44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	80	80					
	MATERIAL	au va						3		44000700	APPROACH SLAB REMOVAL	SQ YD	125	125					
	FURNISHED EXCAVATION	CU YD	14	14						44004250	PAVED SHOULDER REMOVAL	SQ YD	50	50					
20800150	TRENCH BACKFILL	CU YD	21	21						44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1650	1650					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1760	1760						48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	80	80					
25000210	SEEDING, CLASS 2A	ACRE	40	40						48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	900	900					-
25000400	NITROGEN FERTILIZER NUTRIENT	POUND		40						50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	40	40						50105220	PIPE CULVERT REMOVAL	FOOT	21	21					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	40							30103220	THE COLVENT REMOVAE								
25100630	EROSION CONTROL BLANKET	SQ YD	1760	1760						50300335	CONCRETE STRUCTURES	CU YD	181		184				-
25200200	SUPPLEMENTAL WATERING	UNIT	20	20						50300225		SQ YD	17.3		17.3				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40						50300300	PROTECTIVE COAT	POUND	15,970		15,970				
28000300	TEMPORARY DITCH CHECKS	EACH	4	4						50800105	REINFORCEMENT BARS	POUND	1.780		1,780				
28000400	PERIMETER EROSION BARRIER	FOOT	1060	1060						50800205	REINFORCEMENT BARS, EPOXY COATED				60				
28100107	STONE RIPRAP, CLASS A4	SQ YD	32 <b>6</b>		326					50800515	BAR SPLICERS	EACH	70		70				
28200200	FILTER FABRIC	SQ YD	326		32 <b>6</b>					X0325701	STEEL RAILING, TYPE 2399	FOOT	70			1			
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	145	145						51205200	TEMPORARY SHEET PILING	SQ FT	1,510		1,510				
31102100	SUB-BASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	200	200						51500100	NAME PLATES	EACH	1		1		:		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	50	50						54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	1						54247100	GRATING FOR CONCRETE FLARED END	EACH	2	2					
40600300	AGGREGATE (PRIME COAT)	TON	4	4							SECTION 15"					,			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1						542A0220 60107600		FOOT	70	70					
		J	\	11						* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	425	425					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	30	30				1.		# 63100045		EACH	1	1					
40603085		TON	215	215						× 63100085		EACH	4	4					
.0000000	IL-19. 0, N70					4				<del>*</del> 63100167		EACH	3	3					

REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

\* SPECIALTY ITEMS

/30/200 projec

PLOT DATE: 10/30/2007

CONTRACT NO. 60B80

 F.A.P.	SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
330	104B-3-BR		WILL		42	.4
FED.	ROAD DIST. NO. 1	ILL	INOIS	HIG	HWAY PRO	DJECT

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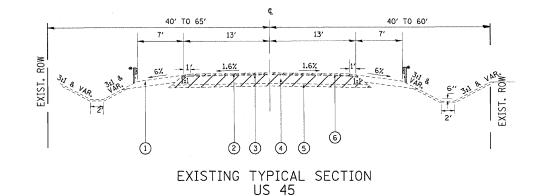
	SUMMARY OF QUANTITIES				1	CONSTRUCTION TYPE	T	<del></del>			SUMMARY	OF QUA	NTITIE	.S				<del></del>	CONSTRUCT	ION TIPE COL	<u> </u>	·
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 1000 - 2A	BRIDGE XO28-2A				CODE NO			ITEM			UNIT	TOTAL QUANTITIES						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10						1												
67100100	MOBILIZATION	L SUM	1	1						The state of the s												
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	. 1											-							
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1 "	1																	-	
70106705	TEMPORARY RUMBLE STRIP	FOOT	405	405																		. ,
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2120	2120																		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	410	410															·			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	410	410								1 44										
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2200	2200											5							
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30					-							,		-				
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4																		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	25	25													-					,
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1																		
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1													-					
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	1600	1600	~															·		
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	6	6						-												
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	6	6																		
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1						-												
84500120	REMOVAL OF ELECTRIC SERVICE	EACH	1	. 1																,		
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51. 4						÷ .												
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6																		
X0325239	TEMPORARY PAVEMENT 10"	SQ YD	305	305														,				
X8250090	COMBINATION POLE LIGHTING CONTROLLER	EACH	1	1			-													-		
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	.3	3																		
Z0001050	1	SQ YD	980	980																		
X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	/	/																		

\* SPECIALTY ITEMS

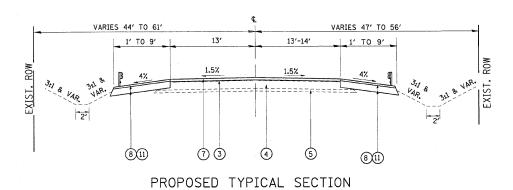
REVISIONS

NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

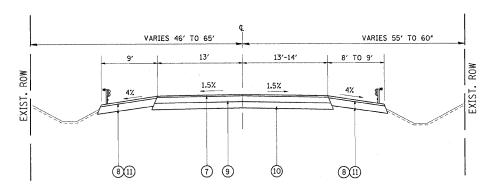


STATION 146+50 TO 149+70 149+43 TO 152+00



STATION 146+50 TO 148+50 149+63 TO 152+00

US 45



PROPOSED TYPICAL SECTION

STATION 148+50 TO 148+90 149+23 TO 149+63

#### LEGEND

- EXIST. AGGREGATE SHOULDER, (6")
- EXIST. HMA CONCRETE SURFACE COURSE MIXTURE D (CLASS I)  $(1\frac{1}{2})$
- $\bigcirc$  EXIST. HMA CONCRETE BINDER COURSE (CLASS I) (1 $\frac{1}{2}$ ")
- (4) EXIST. HMA BASE COURSE (9")
- (5) EXIST. SUB-BASE GRANULAR MATERIAL TYPE A (4")
- (6) PROP. HMA SURFACE REMOVAL, 2" (STA. 146+50-148+50 AND STA. 149+63-152+00)
- (6) PROP. PAVEMENT REMOVAL (STA. 148+50-148+90 AND STA. 149+23-149+63)
- 7) PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (8) PROP. HMA SHOULDER, 10"
- (9) PROP. HMA BINDER COURSE, IL 19, N70, 11"
- (10) PROP. AGGREGATE SUBGRADE, 12"
- (1) PROP. HMA SURFACE COURSE, MIX "D", N50, 1 3/4"
- (12) PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- \*STA 147+76 TO STA 148+90(LT)
  \*STA 149+23 TO STA 150+38(LT)
  \*STA 147+76 TO STA 148+90(RT)
  \*STA 149+23 TO STA 150+37(RT)

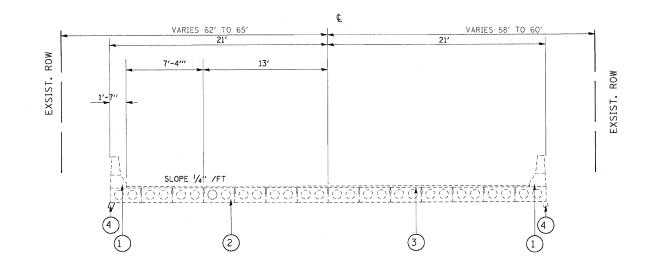
#### NOTES:

FOR EXISTING APPROACH PAVEMENT DETAIL, SEE DETAILS OF APPROACH PAVEMENT SHEET FOR TEMPORARY PAVEMENT LOCATIONS, SEE PRE-STAGE CONSTRUCTION SHEET

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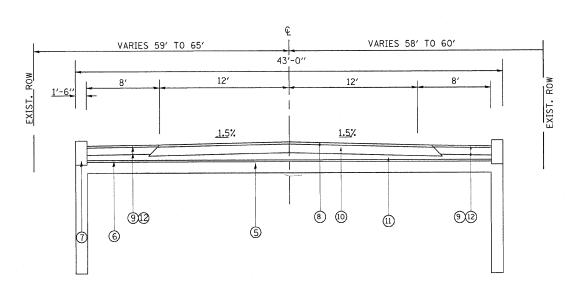
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	EXISTING	AND	PROPOSED	ROAD	WAY PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	U.S. RTE. 45				- S.N. 099-4649	330	104B-3-BR	WILL	42	5
	U.S. NIE. 43	UVEN	JACKSUN C	ncen -	- 3.14. 033-4043	_		CONTRACT	NO. 6	60B80
501	CHEET NO	0.0	CHEETC	CTA	AT2 OT	550 5	ALD DIGT NO 1 THE THORE CED	ATD DOO IFOT		



EXISTING TYPICAL SECTION US 45

STATION 148+90 TO 149+23 (BRIDGE)



PROPOSED TYPICAL SECTION US 45

STATION 148+90 TO 149+23

#### LEGEND

- 1 EXIST. PARAPET WALL
  2 EXIST. PRE-CAST, PRES EXIST. PRE-CAST, PRESTRESSED CONCRETE DECK BEAMS @ 3'-0" (WIDE) EACH
- (3) EXIST. HMA OVERLAY (1 1/2 " 2")
- (4) EXIST. SCUPPER
- (5) PROPOSED THREE SIDED PRECAST CONCRETE STRUCTURE, 32' x 10'
- 6 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- 7 PROPOSED HEADWALL
- 8 PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- 9 PROP. TEMP. PAVEMENT, 10" (TO REMAIN IN PLACE)
- (10) PROP. HMA BINDER COURSE, IL 19, N70, 11"
- (1) PROP. AGGREGATE SUBGRADE, 12"
- (12) PROP. HMA SURFACE COURSE, MIX "D", N50, 1 3/4"

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	PLOT DATE = 10/30/2007	DATE -	REVISED -	

STATE	OF	ILLINOIS
DEPARTMENT (	OF T	RANSPORTATION

	EXISTIN	G AND	PROPOSED	ROAD	VAY PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
					S.N. 099-4649	330	104B-3-BR	WILL	42	6
	U.S. HIE. 43	UVER	JACKSUN (	PEEK -	3.N. 039-4043			CONTRAC	T NO. 6	0B80
- 50'	SHEET NO	OF	SHEETS	STA	TO STA.	EED BOAD I	TET NO 1 THE INOTE EED A	ID PROJECT		

SCI	HEDULE OF	QUANTITIE	S (EARTHW	ORK)		
1	2	3	4	5	6	7
US 45 OVER JACKSON CREEK	EARTH EXCAVATION (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	FURNISHED EXCAVATION (CU YD)	TOP SOIL FURNISH AND PLACE (SQ YD)
US 45 - STA. 146+50 TO 152+00	122	389	118	104	-14	1,760

COLUMN 1: LOCATION FROM PLANS

COLUMN 2: CUT QUANTITIES AFTER UNSUITABLE MATERIAL IS REMOVED

COLUMN 3: MATERIAL THAT IS DETERMINED TO BE EITHER
UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT

(TOP SOIL EXCAVATED AT 6" (150 MM) AVERAGE DEPTH)
COLUMN 4: FILL QUANTITIES AFTER UNSUITABLE MATERIAL IS REMOVED

COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%

COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY=

EXTRA EXCAVATION, NEGATIVE QUANTITY=

FURNISHED EXCAVATION

COLUMN 7: TOPSOIL FURNISH AND PLACE= AREA OF SODDING

NOTE: THE TOP 6" OF TOPSOIL IS TO BE REMOVED AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

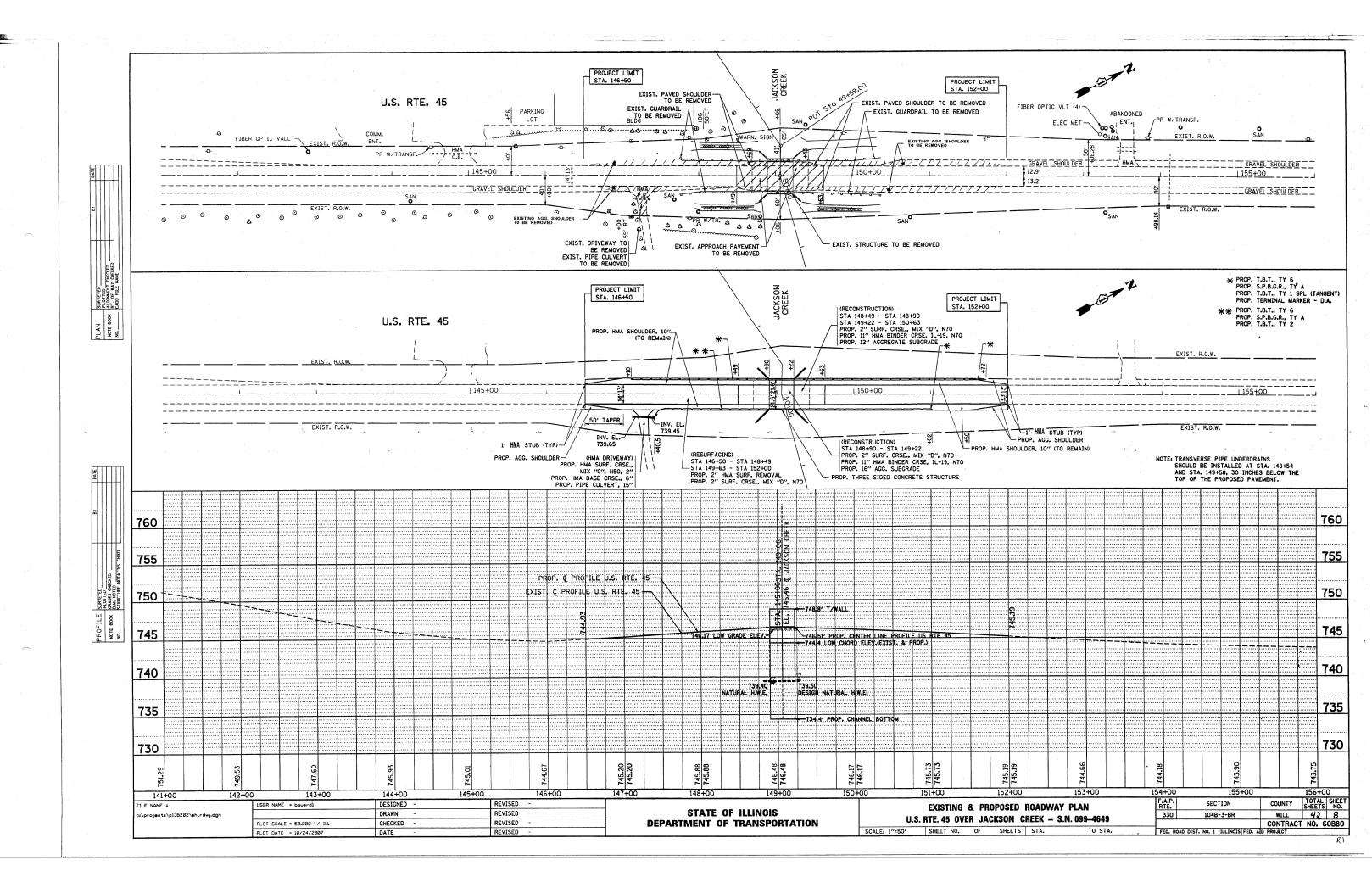
#### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

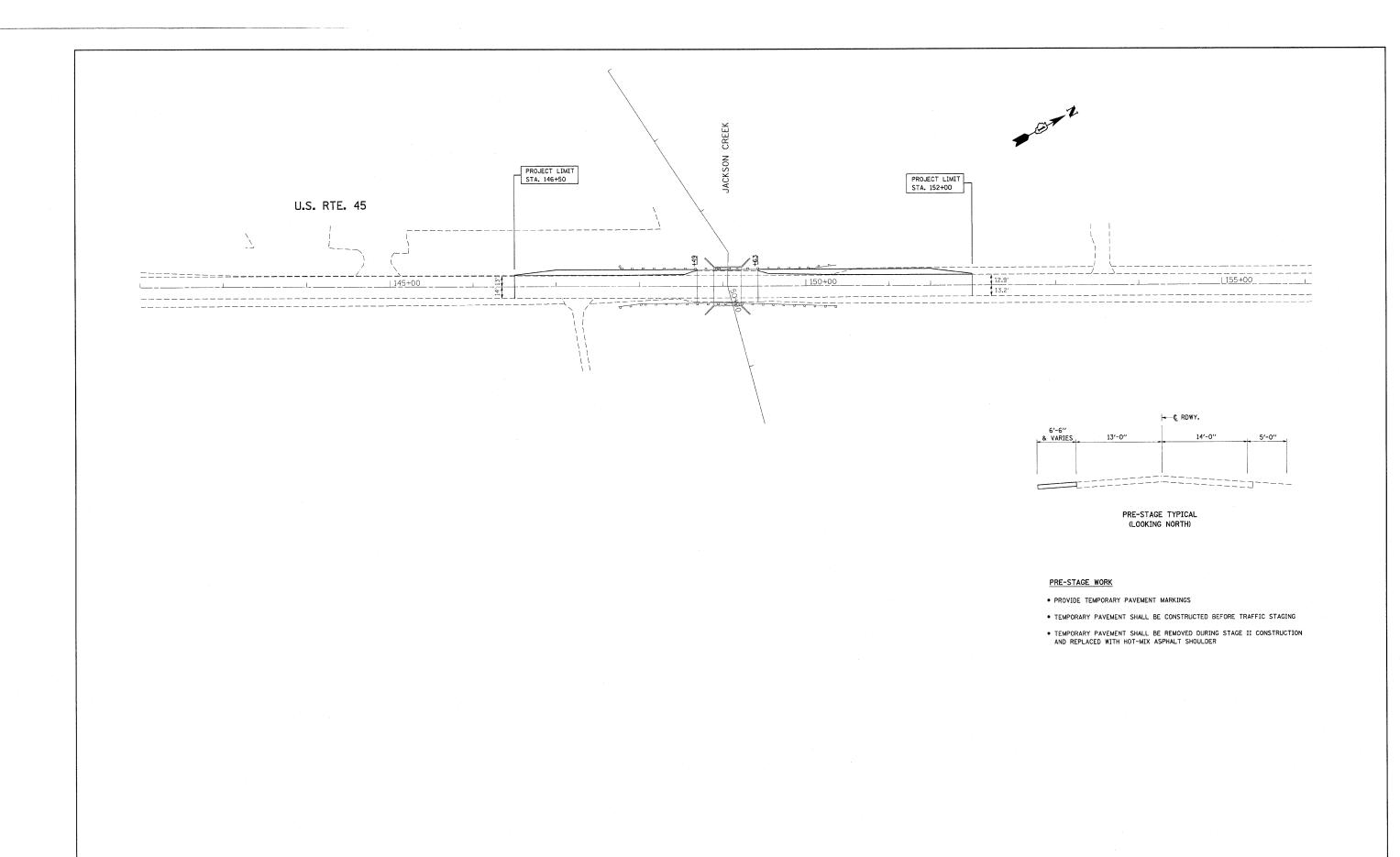
MIXTURE TYPE	AC TYPE	AIR VOIDS (%)
HMA SHOULDER		
HOT-MIX ASPHALT SHOULDER, N50, 10"	PG 64-22*	2% @ 30 GYR
TEMPORARY PAVEMENT		
TEMP. PAVEMENT, (HMA BINDER IL-19mm) 10"	PG 64-22*	4% @ 50 GYR
FULL DEPTH PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"	PG 64-22	4% @ 70 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 11"	PG 64-22*	4% @ 70 GYR
DRIVEWAY		
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm) 6"	PG 64-22*	4% @ 50 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"	PG 64-22	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

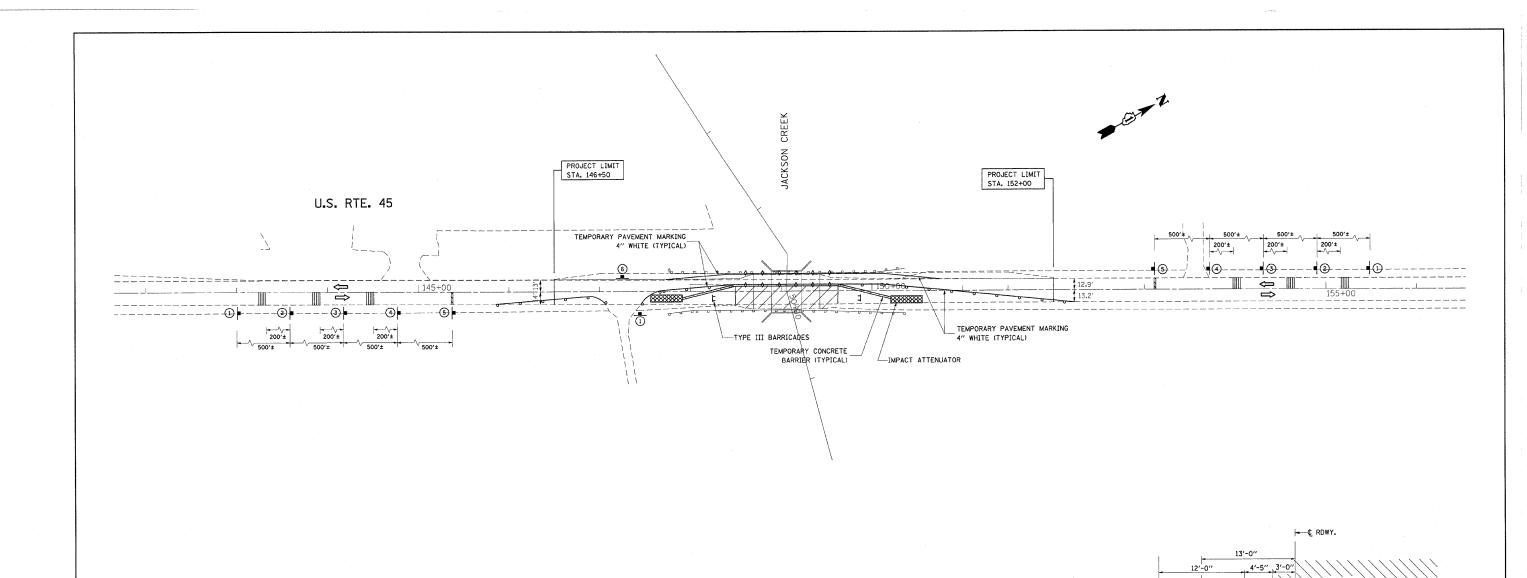
\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

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c:\projects\p135202\design_aa.dgn		DRAWN -	REVISED	STATE OF ILLINOIS	· ·	330 104B~3-BR	WILL 4/2 7
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	U.S. RTE. 45 OVER JACKSON CREEK – S.N. 099–4649		CONTRACT NO. 60B80
	PLOT DATE = 12/4/2007	DATE -	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.	FED ROAD DIST NO 1 THE INDIS FED	AID PROJECT





FILE NAME =	USER NAME = smithkl	DESIGNED -	REVISED -				P	RE-STA	GF.		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\projects\p135202\sh_stage1.dgn	-	DRAWN -	REVISED -	STATE OF ILLINOIS		0 075 45 0				S.N. 099-4649	330	104B-3-BR	WILL	42 9
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	U.		JVEK JP			.,,				CT NO. 60B80
	PLOT DATE = 10/25/2007	DATE -	REVISED		SCALE: 1"=50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1   ILLINOIS   F	ED. AID PROJECT	



#### LEGEND

777

WORK AREA

TEMPORARY CONC. BARRIER

TYPE I OR II BARRICADES W/ STEADY BURN LIGHT 25' C-C

TYPE III BARRICADES (2) WITH HIGH INTENSITY FLASHING LIGHT ON EACH (TYP.)

SIGN ON PERMANENT OR PORTABLE SUPPORT

IMPACT ATTENUATOR

TEMPORARY RUMBLE STRIP

♦ CRYSTAL, BIDIRECTIONAL BARRIER WALL / GUARDRAIL MARKER





40







#### STAGE I WORK

- MAINTAIN TRAFFIC ON SOUTHBOUND LANES
- REMOVE STRUCTURE (NORTHBOUND)
- REMOVE PAVEMENT TO BE RECONSTRUCTED (NORTHBOUND)

STAGE I TYPICAL

- REMOVE EXISTING SHOULDER (NORTHBOUND)
- REMOVE EXISTING DRIVEWAY
- PLACE THREE SIDED STRUCTURE (NORTHBOUND)
- CONSTRUCT NEW PAVEMENT
- CONSTRUCT NEW DRIVEWAY
- CONSTRUCT NEW SHOULDER
- MOUNT NEW GUARDRAIL

#### NOTES:

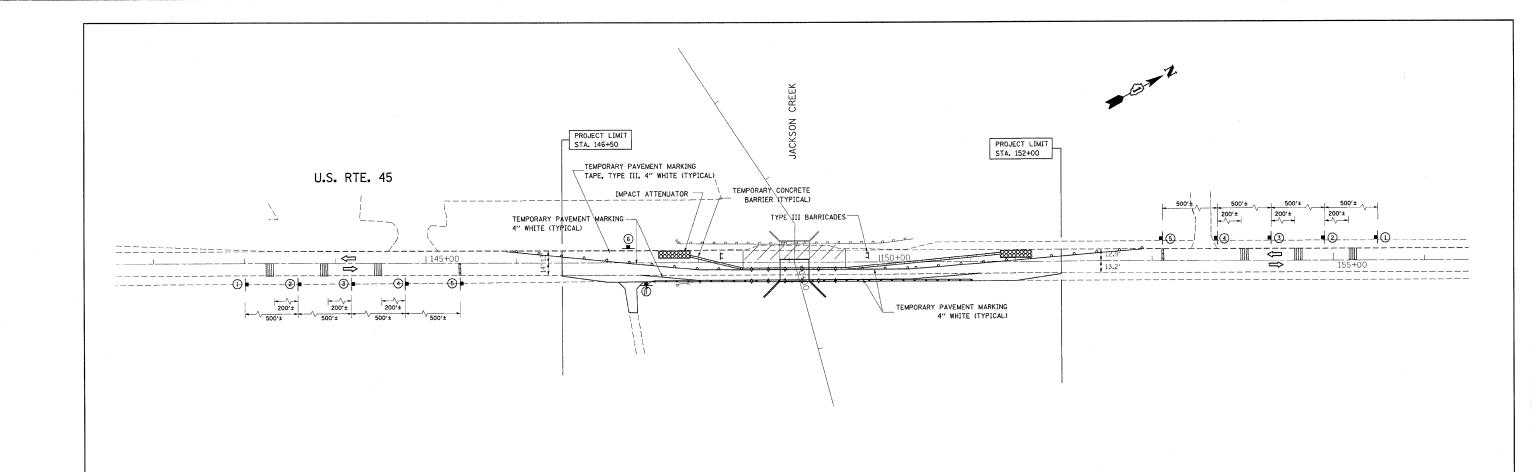
M6-1(0)-2115

- SIONS, BARRICADES AND RUMBLE STRIPS SHALL BE PLACED IN ACCORDANCE TO TRAFFIC CONTROL STANDARD 701321
- \* SEE TEMPORARY TRAFFIC SIGNAL SHEETS FOR LOCATIONS OF TRAFFIC SIGNALS AND DETECTOR LOOPS

_E NAME =	USER NAME = smithkl	DESIGNED -	REVISED -	Γ
projects\pi35202\sh_stage1.dgn	-	DRAWN -	REVISED -	
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	
	PLOT DATE = 10/25/2007	DATE -	REVISED -	L



	,		STAGE I			F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	DTC 45 0\4	rn I		DEEN	C N 000 4640	330	104B-3-BR	WILL	42	10
0.5.	RIE. 45 UV	tk J	ACK2OM CI	KEEK -	- S.N. 099–4649			CONTRACT	NO.	60B80
SCALE: 1"=50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



#### LEGEND

WORK AREA

TEMPORARY CONC. BARRIER

TYPE I OR II BARRICADES W/ STEADY BURN LIGHT 25' C-C

TYPE III BARRICADES (2) WITH HIGH INTENSITY FLASHING LIGHT ON EACH (TYP.)

SIGN ON PERMANENT OR PORTABLE SUPPORT

IMPACT ATTENUATOR

TEMPORARY RUMBLE STRIP

CRYSTAL, BIDIRECTIONAL BARRIER WALL / GUARDRAIL MARKER

















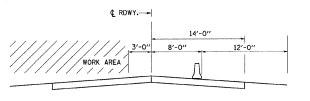




#### NOTES:

SIGNS, BARRICADES AND RUMBLE STRIPS SHALL BE PLACED IN ACCORDANCE TO TRAFFIC CONTROL STANDARD 701321

SEE TEMPORARY TRAFFIC SIGNAL SHEETS FOR LOCATIONS OF \*TRAFFIC SIGNALS AND DETECTOR LOOPS

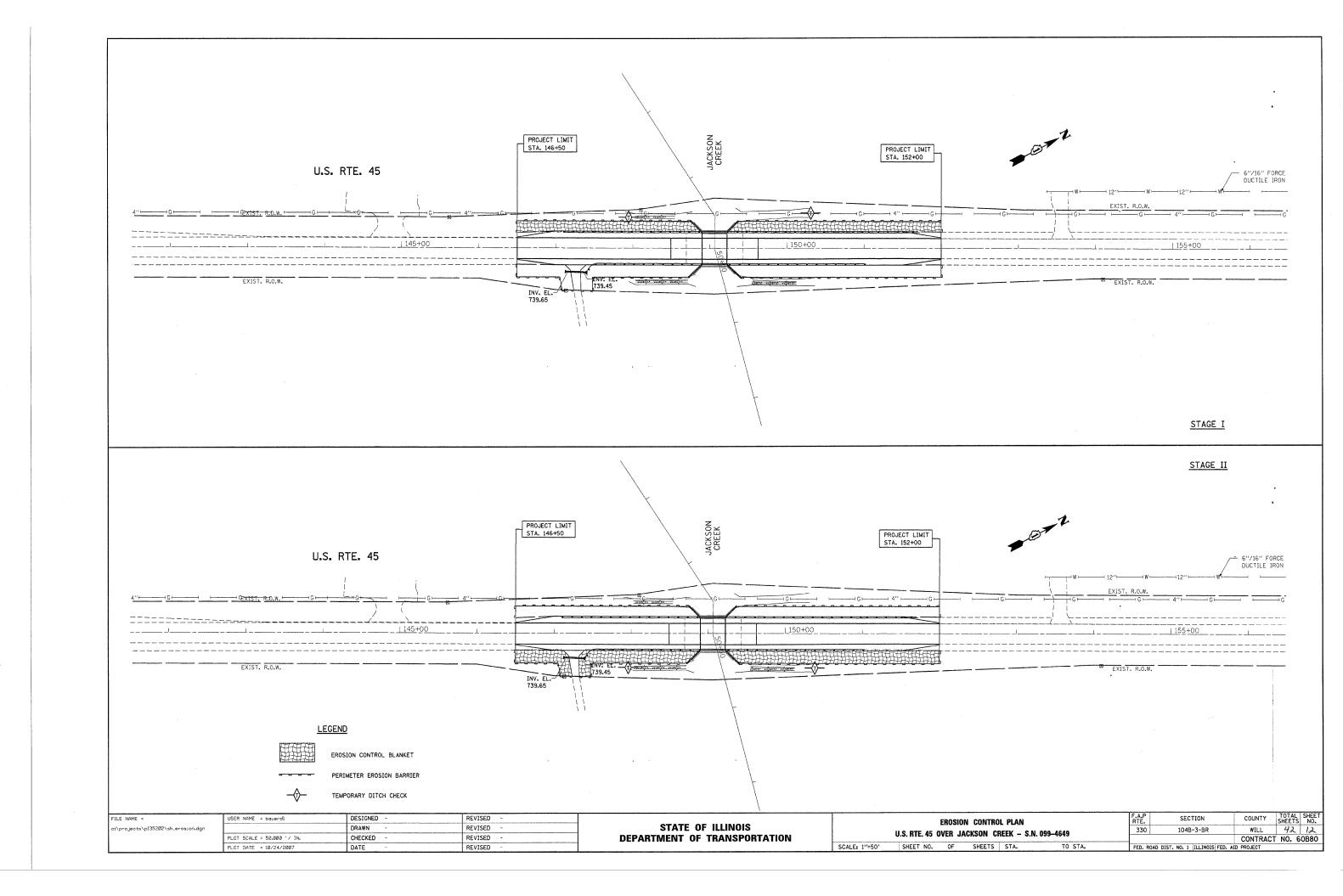


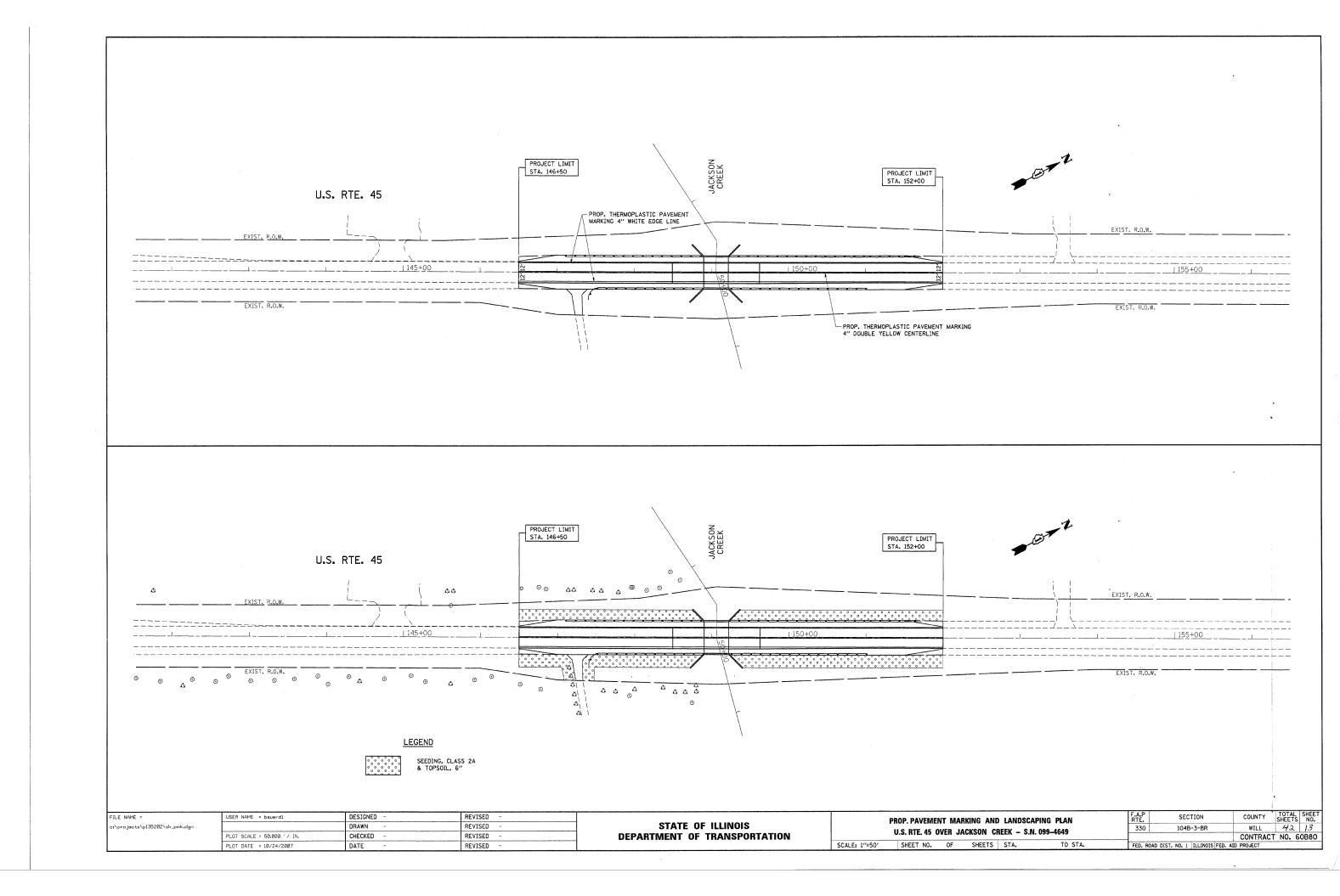
STAGE II TYPICAL (LOOKING NORTH)

#### STAGE II WORK

- MAINTAIN TRAFFIC ON NORTHBOUND LANES
- REMOVE STRUCTURE (NORTHBOUND)
- REMOVE PAVEMENT TO BE RECONSTRUCTED (SOUTHBOUND)
- REMOVE EXISTING SHOULDER (TEMP. PAVEMENT) (SOUTHBOUND)
- PLACE THREE SIDED STRUCTURE (SOUTHBOUND)
- . CONSTRUCT NEW PAVEMENT
- CONSTRUCT NEW SHOULDER
- . MOUNT NEW GUARDRAIL

FILE NAME =	USER NAME = smithkl	DESIGNED -	REVISED -		STAGE II	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\projects\pi35202\sh.stage2.dgn		DRAWN -	REVISED ~	STATE OF ILLINOIS	U.S. RTE. 45 OVER JACKSON CREEK - S.N. 099-4649	330	104B-3-BR	WILL	42 11
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	T NO. 60B80
1	PLOT DATE = 10/25/2007	DATE -	REVISED -		SCALE: 1"=50" SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD D	DIST. NO. 1 ILLINOIS FED.	, AID PROJECT	





#### NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR, EVP WILL BE PAID FOR SEPARATELY.
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12"
  (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATROY SIGNS SHALL BE RE-MOVED FROM EXISTING POLES. RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

TOTAL

WATTAGE

51.0

37.5

22.5

100.0

211.0

- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS. SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL. AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. 24" WHITE STOP BAR TO BE INSTALLED
  AFTER THE INSTALLATION AND IMPLEMENTATION
  OF THE TEMPORARY TRAFFIC SIGNALS

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE

(YELLOW)

SIGNAL (RED)

PED. SIGNAL

CONTROLLER

ILLUM. SIGN

FLASHER

FILE NAME =

:\pro lects\p135202\tra

ARROW

WATTAGE

INCAND. LED

135 15

100 100

25

12

25

135

135

135

90

X% OPERATION

0.50

0.25

0.25

0.10

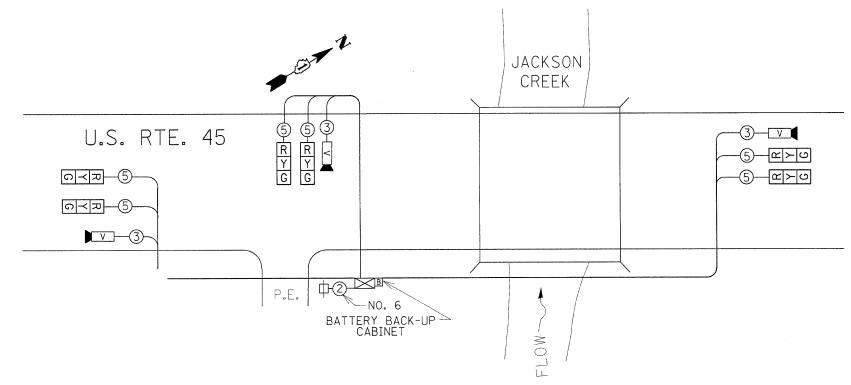
1.00

1.00

0.05

TOTAL =

201 CENTER CT. SCHAUMBURG, IL. 60196



J.L.I.E.

0-892-0

	SUMMARY OF QUANTITIES		
ITEM	DESCRIPTION	UNIT	QUANTITY
X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1

### TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PEDESTRIAN PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP

12" (300mm) PEDESTRIAN SIGNAL SECTION

M MICROWAVE VEHICLE SENSOR

VIDEO DETECTOR SENSOR

CLOSED CIRCUT TV

BB BATTERY - BACK UP

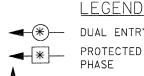
T TELEPHONE CONNECTION

T TELEPHONE CONNECTION

CONTROLLER SEQUENCE
---------------------







DUAL ENTRY PHASE
PROTECTED LEFT TURN
PHASE
OVERLAP

ASSOCIATED PHASE

PEDESTRIAN PHASE

NUMBER REFERS TO



P.E.



ENERGY SUPPLY - CONTACT:
PHONE:
COMPANY:
(708) 235-2327
COMMONWEALTH

ENERGY COSTS - BILLED TO: I.D.O.T.

	USER NAME = nguyenam	DESIGNED -	REVISED	also and a second
affic.dgn		DRAWN -	REVISED	-
	PLOT SCALE = 20.0000 '/ IN.	CHECKED -	REVISED	·
	PLOT DATE = 10/5/2007	DATE -	REVISED	-

FOUNDATION (DEPTH)

D - CONTROLLER

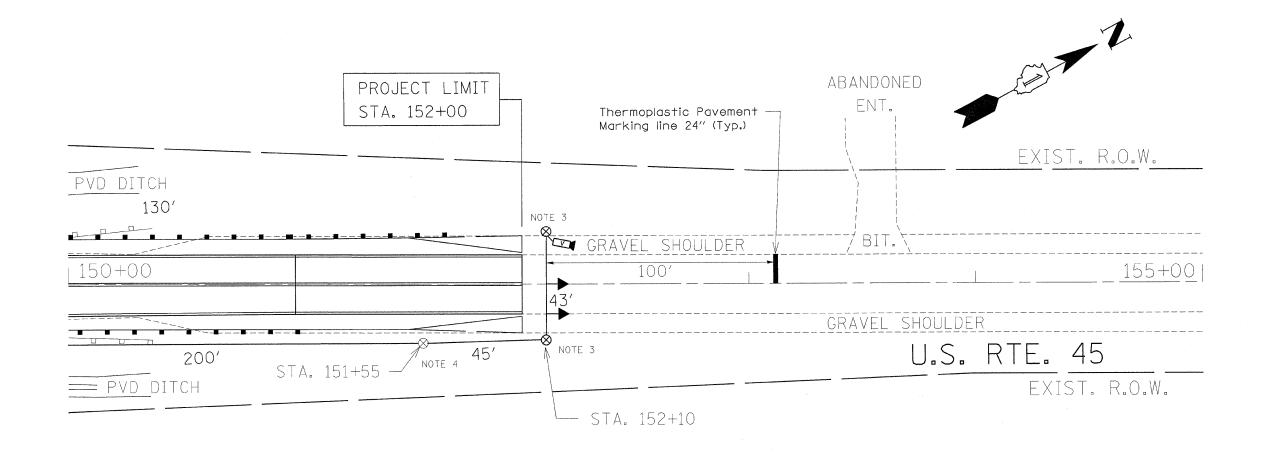
E - M. ARM POLE

24" (600mm) 30" (750mm)

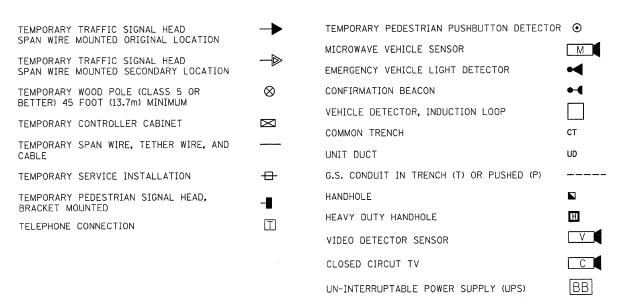
TYPE A - POST

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CA	BLE P	LAN &	TEMF	ORARY	PHASE DE	SI GNATI ON	DI AGRAM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE.
	11.5	ROUT	F 45	OVER	JACKSON	CREEK		330	104B-3-BR	WILL	42	14
	U. J.	11001	_ 73	OVEIL	ONCINOUN	CINELIN				CONTRACT	NO. 6	0880
SCALE:	SHEET	NO.	0F	SHEETS	STA.	TO STA.		FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



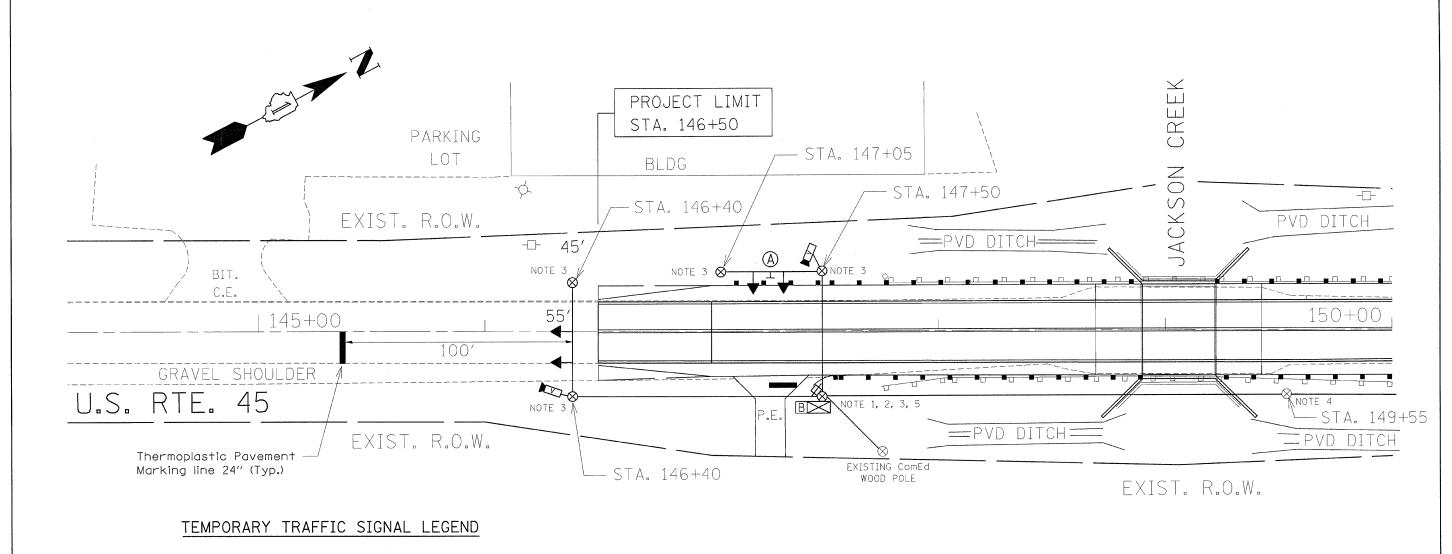
#### TEMPORARY TRAFFIC SIGNAL LEGEND

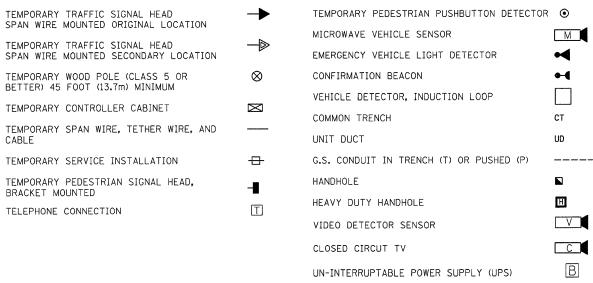


#### Notes:

- ① CONTROLLER WITH STEEL BASE CABINET AND BATTERY BACK-UP CABINET SHALL BE MOUNTED ON A WOOD STAND.
- ② UN-INTERRUPTABLE POWER SUPPLY(UPS) SHALL BE INCLUDED IN "TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION" PAY ITEM.
- 3 7 WOOD POLES INSTALLED BY THE TRAFFIC CONTRACTOR (SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATIONS).
- PROPOSED WOOD POLES FOR ROADWAY LIGHTING SHALL BE USED TO SUPPORT TRAFFIC SIGNAL CABLE.
- (5) TRAFFIC SIGNAL AND ROADWAY LIGHTING SHALL UTILIZE A COMBINATION ELECTRIC SERVICE BOX. (SEE DETAIL)
- 6 ALL SIGNAL HEADS SHALL BE L.E.D.
- THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SUPPLIED BY THE CONTRACTOR SHALL INCLUDE THE CURRENT SOFTWARE VERSION AT THE TIME OF INSTALLATION

FILE NAME =	USER NAME = nguyensm	DESIGNED - SN	REVISED -			TEMPORARY TRAFFIC SIGNAL PLAN	RTE. SECTION COUNTY TOTAL SHEET NO.
c:\projects\p135202\traffic.dgn	PLOT SCALE = 20.00000 '/ IN.	DRAWN - SN CHECKED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		U.S. ROUTE 45 OVER JACKSON CREEK	330 104 B - 3 - BR WILL 42 15 CONTRACT NO. 60880
	PLOT DATE = 10/5/2007	DATE - 10/05/07	REVISED -	DEFAITMENT OF THATOS ON THE	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT





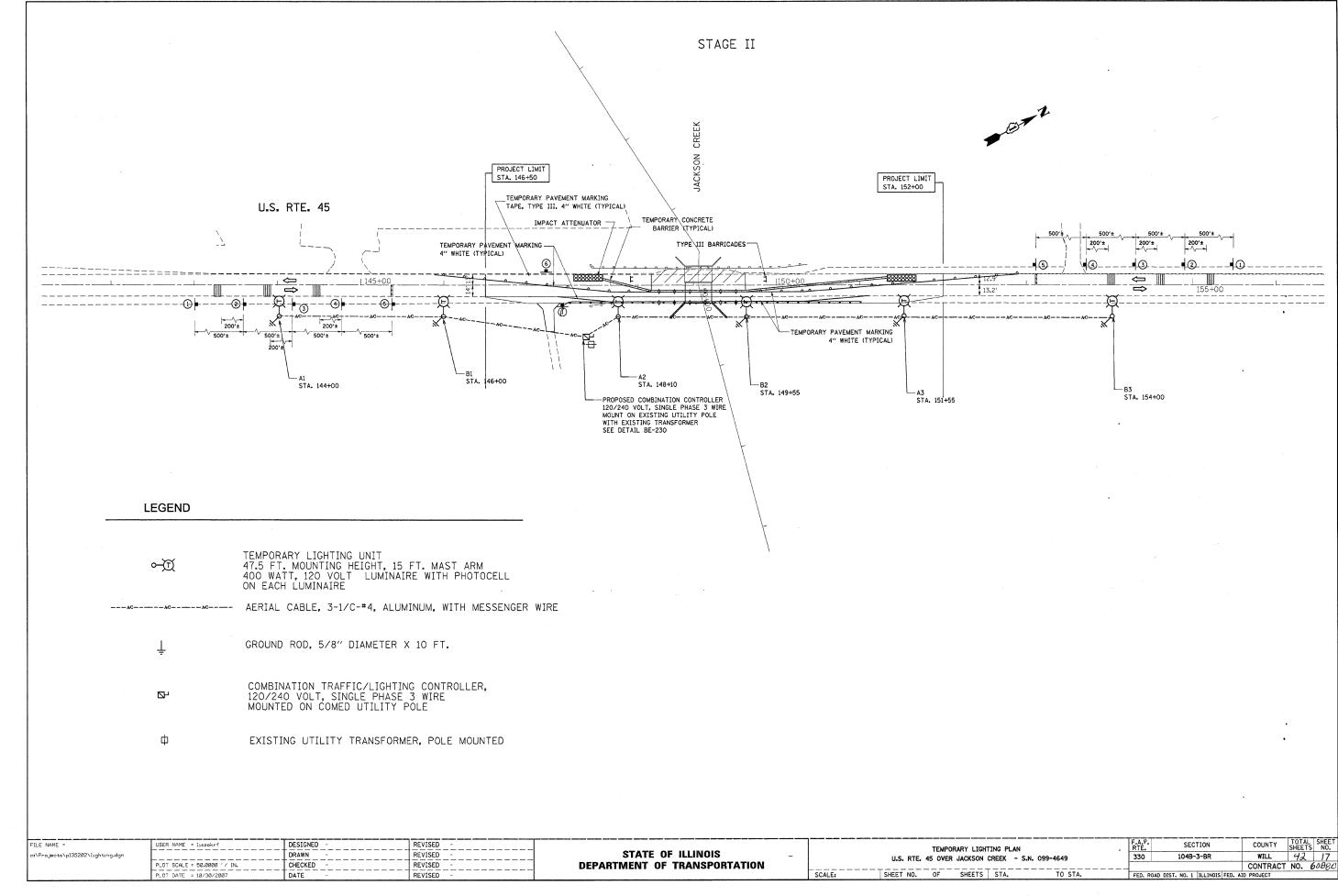
#### Notes:

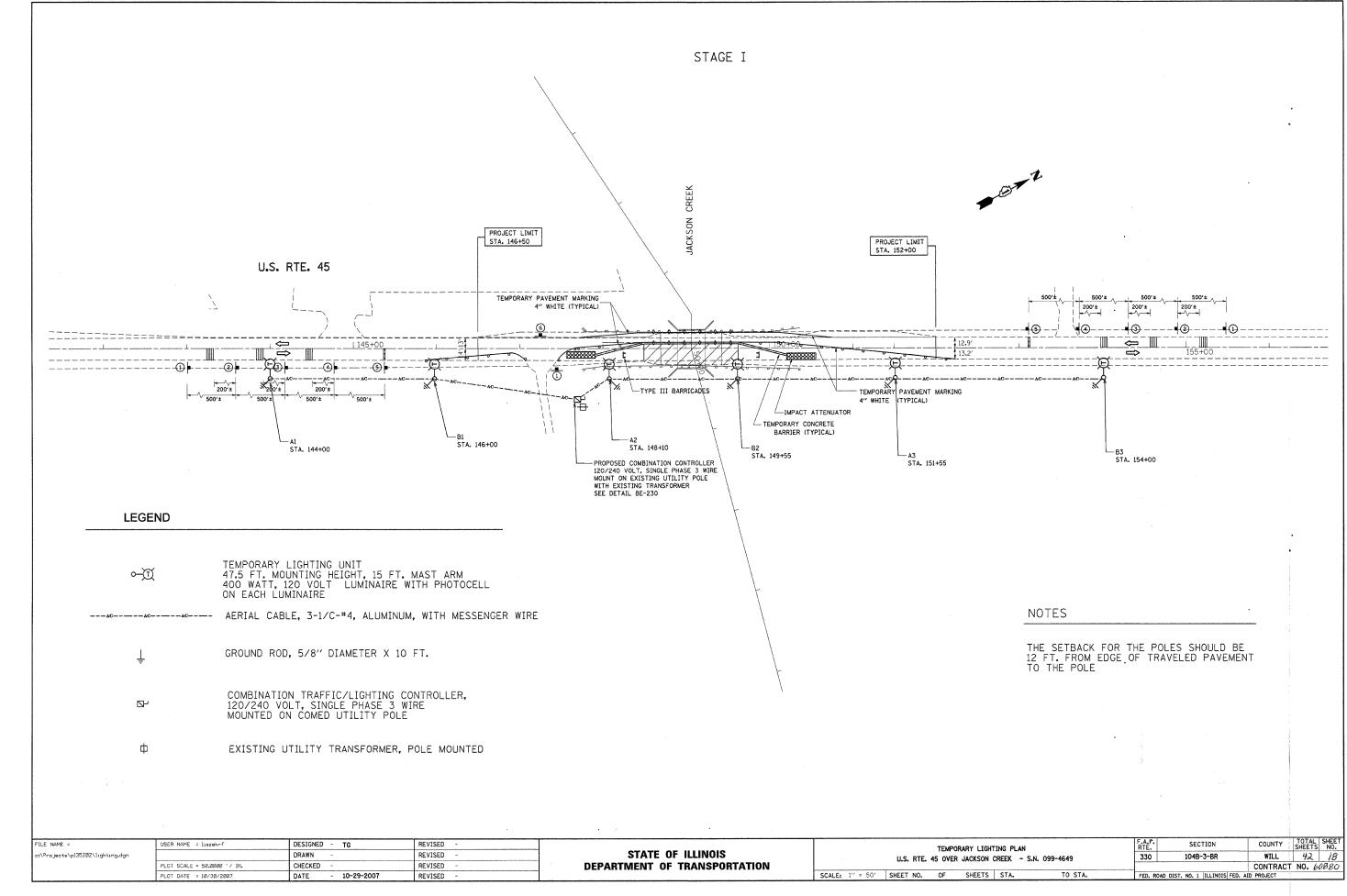
- ① CONTROLLER WITH STEEL BASE CABINET AND BATTERY BACK-UP CABINET SHALL BE MOUNTED ON A WOOD STAND.
- ② UN-INTERRUPTABLE POWER SUPPLY(UPS) SHALL BE INCLUDED IN "TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION" PAY ITEM.
- WOOD POLES INSTALLED BY THE TRAFFIC CONTRACTOR (SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATIONS).
- 4 PROPOSED WOOD POLES FOR ROADWAY LIGHTING SHALL BE USED TO SUPPORT TRAFFIC SIGNAL CABLE.
- TRAFFIC SIGNAL AND ROADWAY LIGHTING SHALL UTILIZE
  A COMBINATION ELECTRIC SERVICE BOX. (SEE DETAIL ON LIGHTING PLAN)
- 6 ALL SIGNAL HEADS SHALL BE L.E.D.
- THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SUPPLIED BY THE CONTRACTOR SHALL INCLUDE THE CURRENT SOFTWARE VERSION AT THE TIME OF INSTALLATION

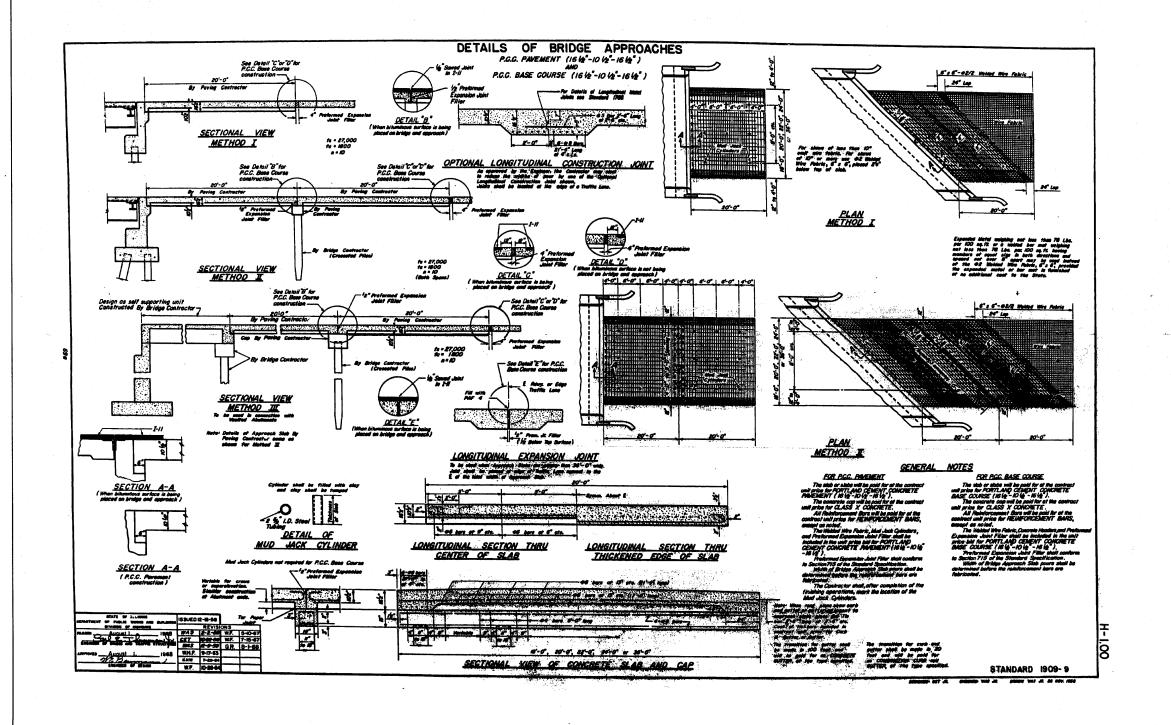


24" X 30" (600mm x 750mm) (TYPICAL) SIGN PANEL TYPE 1

FILE NAME =	USER NAME = nguyensm	DESIGNED - SN	REVISED -			TEMPORARY TRAFFIC SIGNAL PLAN	F.A.P. SECTION COUNTY TOTAL SHEET NO.
c:\projects\p135202\traffic.dgn		DRAWN - SN	REVISED -	STATE OF ILLINOIS		LL C DOUTE AT OVER LACKCOM ORTEK	330 1048-3-BR WILL 42 16
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		U.S. ROUTE 45 OVER JACKSON CREEK	CONTRACT NO. 60880
	PLOT DATE = 10/5/2007	DATE ~ 10/05/07	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

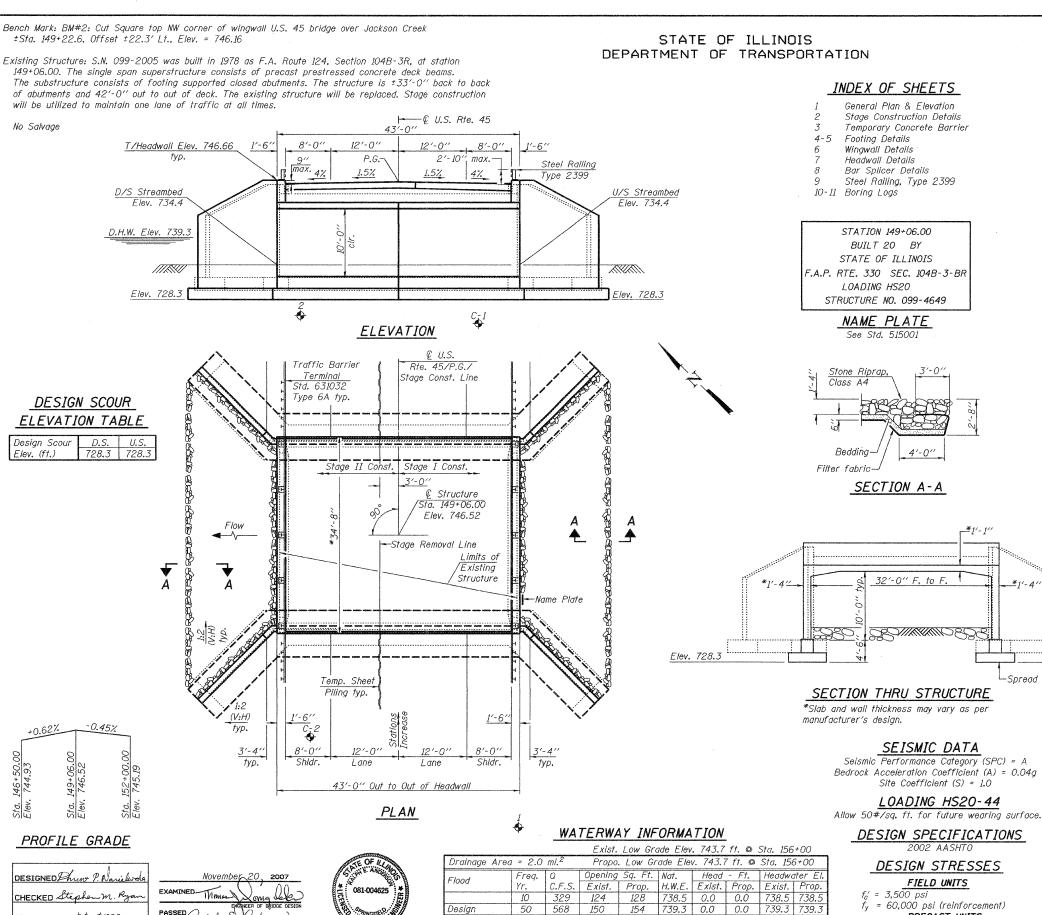






FOR INFORMATION

FILE NAME =	USER NAME = smithkl	DESIGNED -	REVISED -	DETAILS OF EXISTING BRIDGE APPROACH RTE.		DETAILS OF EXISTING BRIDGE APPROACH		SECTION	COUNTY	TOTAL	L SHEET				
c:\projects\p135202\design_aa.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				330	104B-3-BR	WILL	42	19			
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION U.S. HIE. 45 OVER JACKSON CHEER - S.N. 099-4049		U.S. RTE. 45 OVER JACKSON CREEK - S.N. 099-4649				CONTRAC	CT NO.	60880			
	PLOT DATE = 10/30/2007	DATE -	REVISED -		SCALE: 1" = 50'	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1   ILLINOIS FE	. AID PROJECT		



Design

100

500

703

10 Year Velocity through Existing Bridge = 2.7 fps

10 Year Velocity through Proposed Bridge = 2.6 fps

159

Base

EXPIRES 11-30-2008

163

739.6 0.0 0.0 739.6 739.6 740.2 0.4 0.4 740.6 740.8

h.t. duona

CHECKED D.P. N. / SMR

#### 104B-FAP 330 WII I 42 3-RR

Contract No. 60B80

SHEET NO.

20

SHEET NO. 1

11 SHEETS

TOTAL

#### GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

The option of using a precast footing is not allowed.

The option of using precast wingwalls is not allowed.

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

After the keyways have been grouted and cured, the joints on all three sides of the structure shall be externally sealed using 13" wide external sealing bands conforming to Article 1057.01. Cost included with Three-Sided Precast Concrete Structure 32'x10'.

All details shown are developed assuming the use of cast-in-place headwalls and wingwalls placed as shown. The Contractor has the option of using precast headwalls. If the precast option is used, the details for the headwalls shall be submitted to the Engineer for approval.

The footing design is based on the following maximum reactions applied at the top of the footing pedestal:

Vertical: 13.2 k/ft DL + 2.3 k/ft LL

Horizontal: 2.25 k/ft DL + 1.0 k/ft LL

The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details, and the required structural seals shall be submitted for review and approval.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the Stage Removal Line before Stage I Removal to ensure the remaining portion will not be prematurely damaged.

Cost of excavation is included in the pay item Three Sided Precast Concrete Structure 32' x 10'.

Structural Seal does not include the design of precast elements. Dimensions for the Three-Sided Precast are for a Hy-Span section. Con-Span, Redi-Span Bridge System and Bebo-Arch System are also acceptable, but dimensions may vary.

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Name Plates	Each	1
Concrete Structures	Cu. Yd.	181.0
Protective Coat	Sq. Yd.	17.3
Reinforcement Bars	Pound	15970
Reinforcement Bars, Epoxy Coated	Pound	1780
Three Sided Precast Concrete Structure 32′ x 10′	Foot	43
Bar Splicers	Each	60
Steel Railing, Type 2399	Foot	70
Temporary Sheet Piling	Sq. Ft.	1510
Stone Riprap, Class A4	Sq. Yd.	326
Filter Fabric	Sq. Yd.	326

<sup>\*\*</sup>Protective coat shall be applied to top surface of headwalls and upper 9" of inside face of headwalls.

= 60.000 psi (reinforcement) PRECAST UNITS

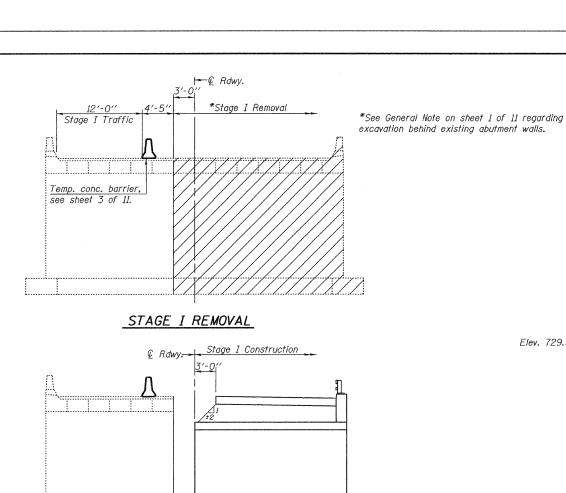
 $f_{c}' = 5,000 psi$  $f_y = 65,000$  psi (welded wire fabric) LOCATION SKETCH

GENERAL PLAN & ELEVATION U.S. RT. 45 OVER JACKSON CREEK F.A.P. RT. 330 SEC. 104B-3-BR WILL COUNTY STATION 149+06.00 STRUCTURE NO. 099-4649

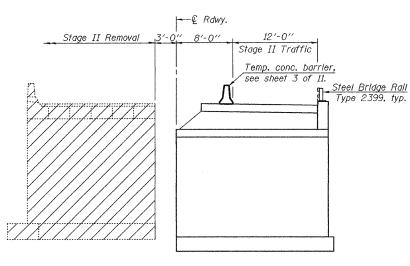


Elev. 728.3

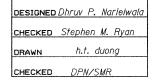
Spread Footing

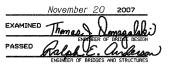


## STAGE I CONSTRUCTION



STAGE II REMOVAL

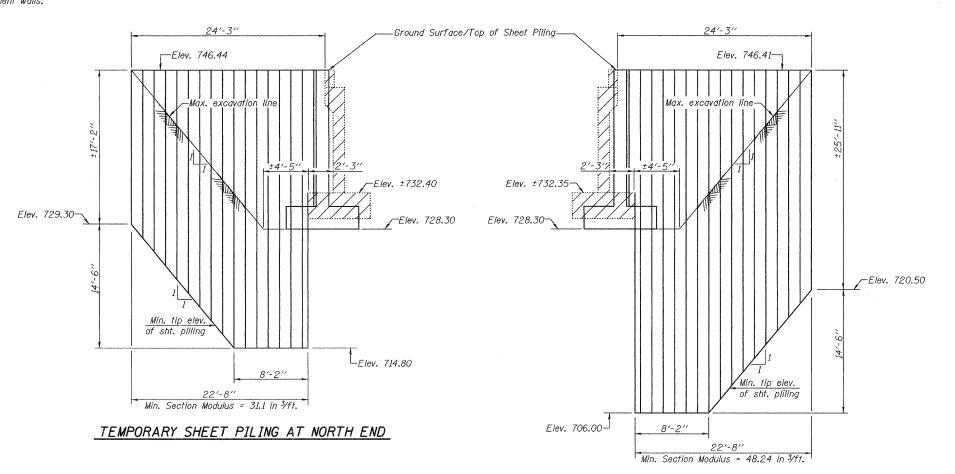




## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



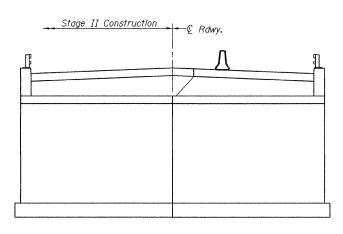
Contract No. 60B80



Notes: Hatched areas indicate removal of existing structures.

For quantity of temporary concrete barrier, See Roadway Plans.

All staging cross sections are looking upstation.



STAGE II CONSTRUCTION

TEMPORARY SHEET PILING AT SOUTH END

Notes: If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

STAGE CONSTRUCTION DETAILS

F.A.P. RT. 330 SEC. 104B-3-BR

WILL COUNTY

STATION 149+06.00

STRUCTURE NO. 099-4649



11 SHEETS

#### NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1"x7"x10" steel R to the top layer of couplers with  $2^{-5}8$ "  $\phi$  bolts screwed to coupler at approximate  $\[ \ell \]$  of each barrier panel.

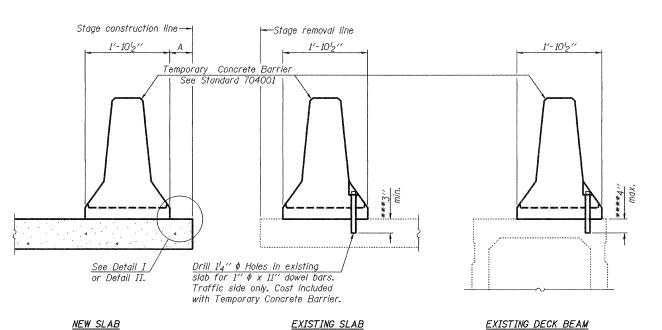
Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x10" steel P to the concrete slab or concrete wearing surface with 2-58'\psi Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate © of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

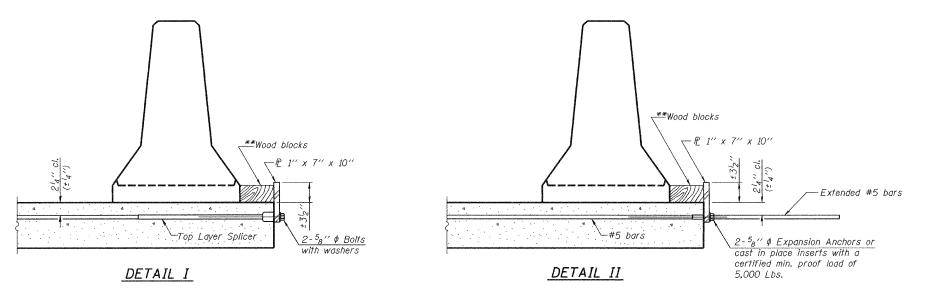
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

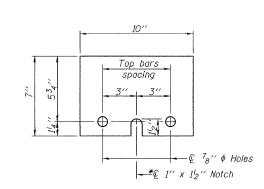
\*\*\*Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\*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.



#### SECTIONS THRU SLAB





STEEL RETAINER P 1" x 7" x 10"

\*Required only with Detail II

DESIGNED Dhruv P. Narielwala CHECKED Stephen M. Ryan h.t. duong CHECKED DPN/SMR R-27

9-3-07

When "A" is 3'-6" or less, the temporary concrete

to Detail I or Detail II. No anchorage is required

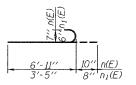
when "A" is greater than 3'-6".

barrier shall be anchored to the new slab according

\*\*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.

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION F.A.P. RT. 330 SEC. 104B-3-BR WILL COUNTY STATION 149+06.00 STRUCTURE NO. 099-4649

Contract No. 60B80



<u>BARS n(E)</u> <u>& n<sub>1</sub>(E)</u>

# BILL OF MATERIAL TWO STRUCTURE FOOTINGS, TWO PEDESTALS AND FOUR WINGWALL FOOTINGS

Bar	No.	Size	Length	Shape
h1	64	#5	21'-2''	
n(E)	80	#7	7'-9''	N
$n_1(E)$	84	#6	4'-1''	
	00	#4	12'-10''	8.0
<u>S</u>	88	#4		[]
$s_1$	88	#4	8'-11''	<u>L]</u>
t	124	#7	9'-4''	
†1	80	#6	9'-4"	
12	92	#6	8'-8''	
†3	116	#6	8'-8"	
14	20	#7	9'-9"	
†5	12	#6	9'-9''	
V <sub>8</sub>	176	#5	3'-10''	
. '8	1,0		J 10	
W	56	#5	21'-8"	
$W_1$	56	#5	22'-7"	
Concre	te Struc	tures	Cu. Yd.	125.3
	cement		Pound	12750
	rcement Coated	Bars,	Pound	1780
			L	

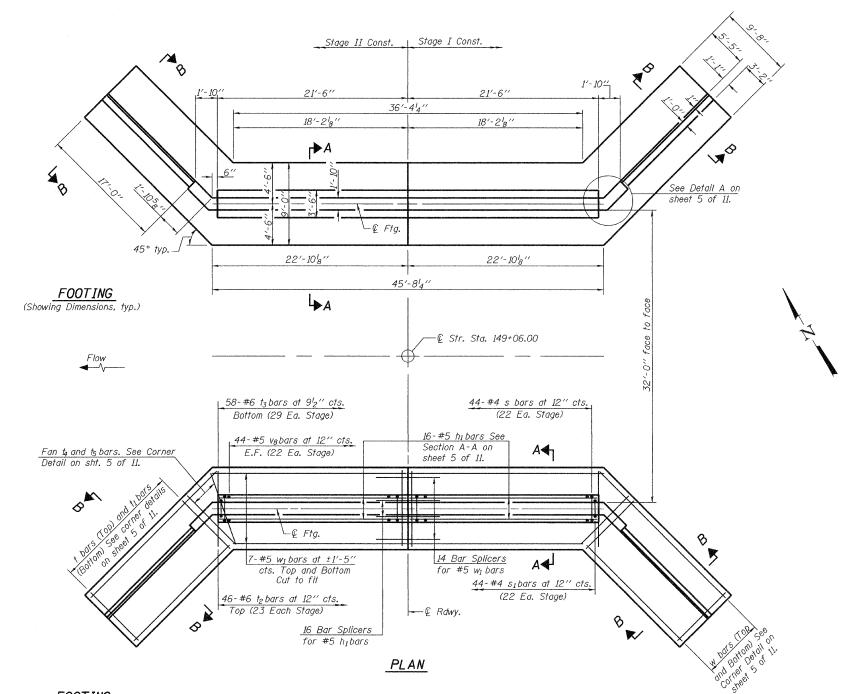
See sheet 5 of 11 for Section A-A. See sheet 6 of 11 for Section B-B. For details of bars s and  $s_1$ , See sheet #5 of 11.

F.A.P. RT. 330 SEC. 104B-3-BR

WILL COUNTY

STATION 149+06.00

STRUCTURE NO. 099-4649



<u>FOOTING</u>
(Showing Reinforcement, typ.)

DESIGNED Dhruv P. Nariehwala

CHECKED Stephen M. Ryan

DRAWN h.t. duong

CHECKED DPN/SMR

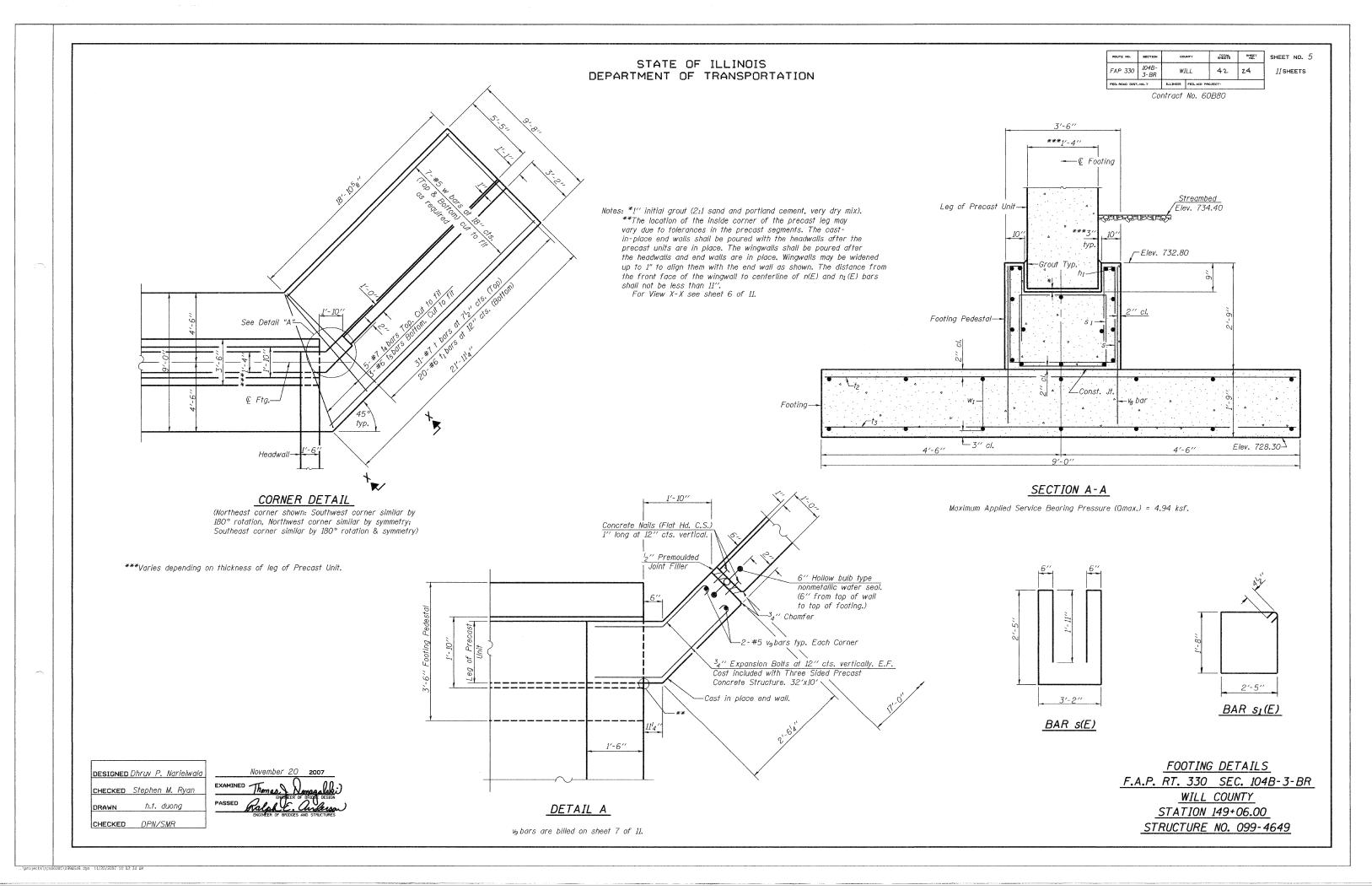
rps00005\0994649.dgn 11/20/200/ 11:02:22 AW

November 20 2007

EXAMINED Thomas I magashi

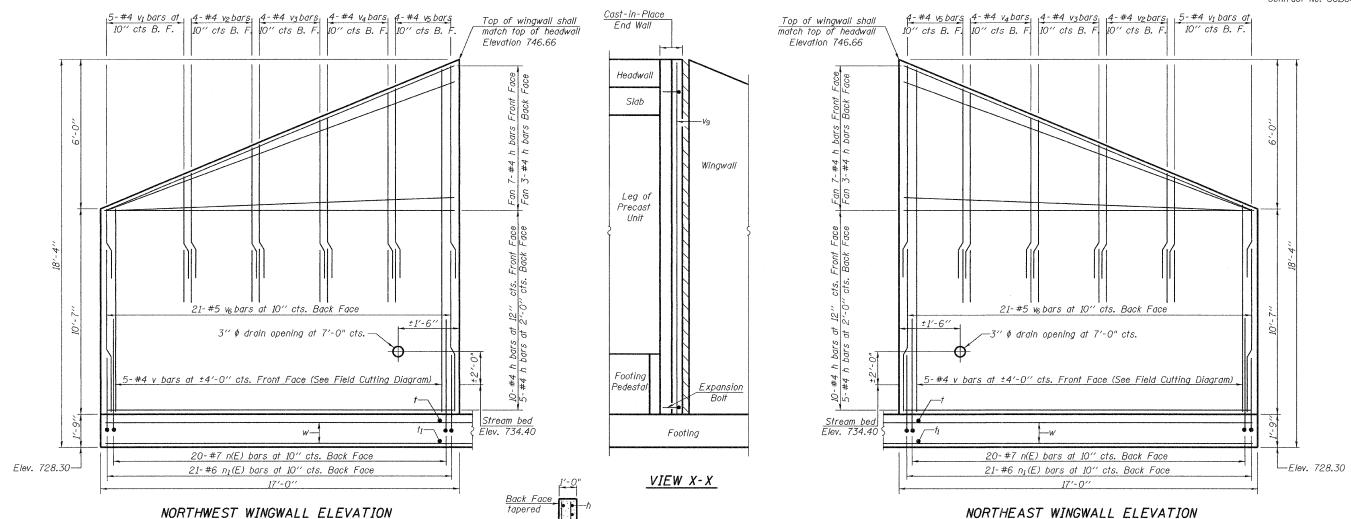
PASSED Auls E. Gulleum

ENGINEER OF BRIDGES AND STRUCTURES





Contract No. 60B80



1/2" cl-

n(E) or n1(E)

9'-8"

SECTION B-B

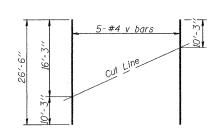
Elev. 728.30-

 $v_1$  ,  $v_2$  ,  $v_3$  ,  $v_4$  or  $v_5$ 

#### NORTHEAST WINGWALL ELEVATION

(Southwest Wingwall Similar)

Note: n(E) and  $n_1(E)$  bars are billed on sht. #4 of 11. Details of bars are shown on sht. #4 of 11.



#### FIELD CUTTING DIAGRAM

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

#### BILL OF MATERIAL WINGWALLS

Bar	No.	Size	Length	Shape
h	100	#4	16'-8''	
V	10	#4	26′-6′′	
$V_I$	20	#4	5′-3′′	
V2	16	#4	6'-9"	
V3	16	#4	8'-2"	
V4	16	#4	9'-8''	
V5	16	#4	11'-2''	
V6	84	#5	8'-0''	
Concre	te Struc	tures	Cu. Yd.	35.7
Reinfor	cement	Bars	Pound	2440

WINGWALL DETAILS F.A.P. RT. 330 SEC. 104B-3-BR WILL COUNTY STATION 149+06.00 STRUCTURE NO. 099-4649

DESIGNED Dhruv P. Narielwala CHECKED Stephen M. Ryan h.t. duong CHECKED DPN/SMR

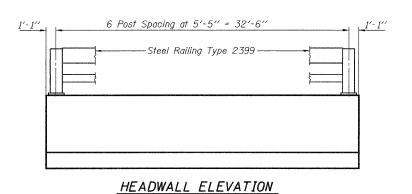
(Southeast Wingwall Similar)

MIN. BAR LAP

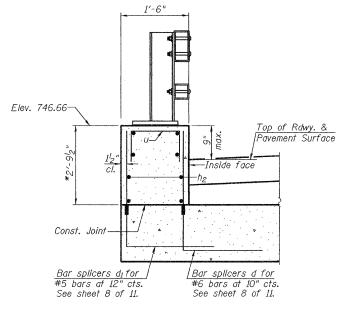
#4 bar = 1'-8'' #5 bar = 2'-2''



Contract No. 60B80

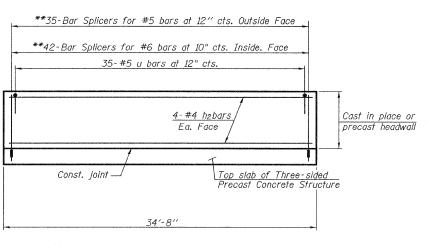


(Showing Post Spacing)



#### SECTION THRU HEADWALL

\*May vary depending on top slab thickness of Three Sided Precast Concrete Structure.



#### HEADWALL ELEVATION

(Showing Reinforcement)

Space reinforcement to miss anchor rods.

\*\*The cost of the bar splicer assemblies for the headwalls shall be included in the cost of the Three-Sided Precast Concrete Structure 32'x10'.

## <u>BILL OF MATERIAL</u> HEADWALLS AND ENDWALLS

Bar	No.	Size	Length	Shape
h <sub>2</sub>	16	#4	34'-4''	
U	70	#5	3'-9''	
V9	8	#5	16'-3''	
		***************************************		
Concret	te Struc	tures	Cu. Yd.	20.0
	cement		Pound	780

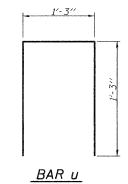
HEADWALL DETAILS

F.A.P. RT. 330 SEC. 104B-3-BR

WILL COUNTY

STATION 149+06.00

STRUCTURE NO. 099-4649



CHECKED Stephen M. Ryan

PASS

DRAWN h.t. duong

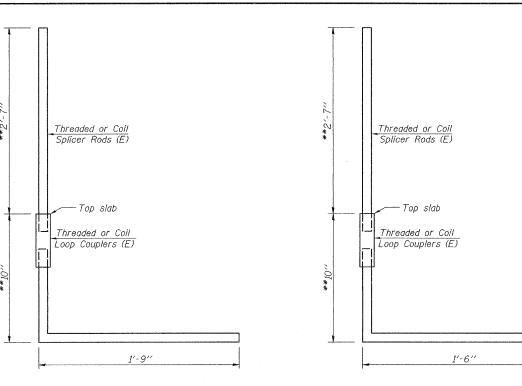
CHECKED DPN/SMR

November 20 2007

EXAMINED Thomas Lab.

PASSED Ralph E. Andrew

ENGINEER OF BRIDGES AND STRUCTURES



#### \*\*\*FOR HEADWALLS

(Cast into Three-Sided Precast Concrete Structure)

Min, Capacity = 33.1 kips - tension Min, Pull-out Strength = 17.4 kips - tension		Bar Splicer d for #6 bar
Min Pull-out Strength = 17.4 kins - tension	Min.	Capacity = 33.1 kips - tension
wini. Fair oar Strongin - 11.1 kips Tonbion	Min.	Pull-out Strength = 17.4 kips - tension

\*\*\*The cost of the bar splicer assemblies for the headwalls shall be included in the cost of the Three-Sided Precast Concrete Structure 32'x10'.

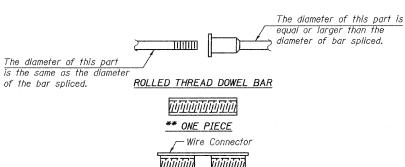
## \*\*\*FOR HEADWALLS

(Cast into Three-Sided Precast Concrete Structure)

	Bar	Splicer	d <sub>1</sub> for	#5 t	ar	
Min.	Capacity	= 23.0	kips	- tens	ion	
Min.	Pull-out	Strength	= 12	.3 kip.	5 -	tension
No. 1	Required	= 70				

\*\*\*The cost of the bar splicer assemblies for the headwalls shall be included in the cost of the Three-Sided Precast Concrete Structure 32'x10'.

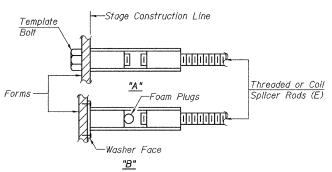
#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



#### WELDED SECTIONS

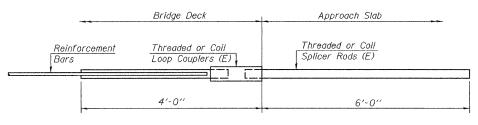
#### BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



#### 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.

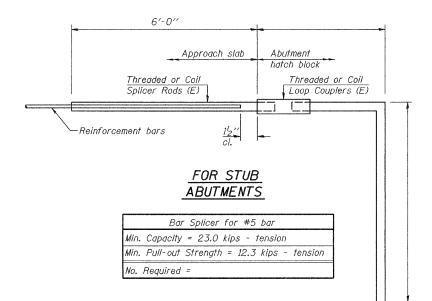


### FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =

DESIGNED Dhruv P. Narielwald CHECKED Stephen M. Ryan h.t. duong DRAWN CHECKED DPN/SMR

\*\*May vary depending on top slab thickness of Three Sided Precast Concrete Structure. The horizontal leg of the bar splicer shall be 3" clear from bottom of the top slab.





Contract No. 60B80

#### NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity = 1.25 x fy x A<sub>t</sub>

(Tension in kips) = 1.25 x fy x A<sub>t</sub>

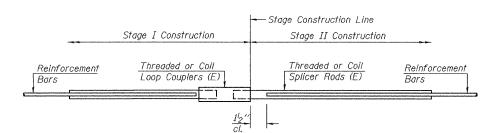
Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub>

(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

 $A_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES								
5 6: 1	0 : 0 :	Strength Requirements						
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension					
#4	1′-8′′	14.7	7.9					
#5	2'-0''	23.0	12.3					
#6	2'-7''	33.1	17.4					
#7	3′-5″	45.1	23.8					
#8	4′-6′′	58.9	31.3					
#9	5′-9″	75.0	39.6					
#10	7′-3′′	95.0	50.3					
#11	9′-0′′	117.4	61.8					

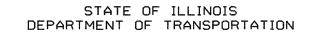


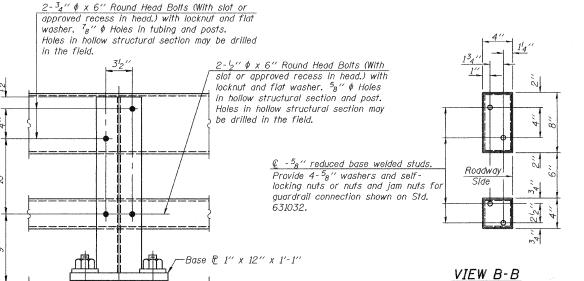
#### STANDARD

Bar Size	No. Assemblies Required	Location
#5	28	Footing
#5	32	Pedestal

BAR SPLICER ASSEMBLY DETAILS F.A.P. RT. 330 SEC. 104B-3-BR WILL COUNTY STATION 149+06.00 STRUCTURE NO. 099-4649

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104B-3-BR

WILL

Contract No. 60B80

FAP 330

SHEET NO. 9

11 SHEETS

TOTAL

42

28

Notes:

With Slot

As Required

VIEW C-C

DETAIL OF 12" \$ & 34" \$

ROUND HEAD BOLTS

Without Slot or Recess

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

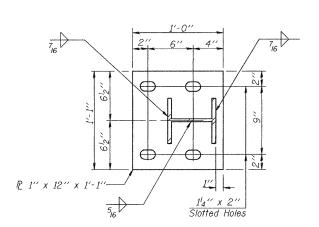
only to a point that will allow railing movement.

Provide one 'g'' and two '\( \) " steel shims for 25% of the posts.

Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

#### SECTION AT RAIL POST



W6x25-

l<sub>8</sub>'' Fabric Brg. Pad

Headwall level-

Specifications.

4- 1" \$ H.S. Threaded Anchor

washers, drilled and set according

to Article 509.06 of the Standard

Rods with hex nuts and lock

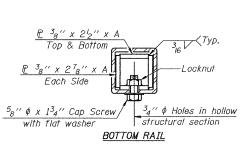
BASE P DETAIL

DESIGNED Dhruv P. Narielwala

CHECKED Stephen M. Ryan

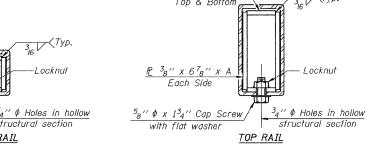
DRAWN h.t. duong

CHECKED DPN/SMR



—Top of Roadway & Pavement Surface

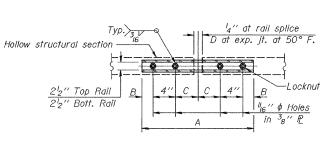
-HSS 8 x 4 x 5/16



P 38" x 212" x A

SECTION A-A

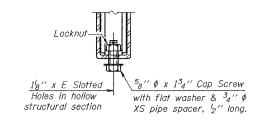
### SECTIONS AT RAIL SPLICE



PLAN-BOTTOM SPLICE P

TYPICAL

(6'-3" Maximum Post Spacing)



RAIL SPLICE CONNECTION
AT EXPANSION JT.

#### BILL OF MATERIAL

	444,1171
oot	70
	oot

#### SPLICE DIMENSIONS

T	D	Α	В	С	E
≤4′′	2'2"	1'-8''	2"	4''	212"
>4"≤6 <sup>1</sup> 2"	334''	2'-0"	2/2"	512"	312"
>6 <sup>1</sup> 2″≤9″	5''	2'-4"	32"	62"	9''
>9′′≤13′′	7''	2'-10''	412"	812"	11''
Rail Splice	4"	1'-8''	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

STEEL RAILING, TYPE 2399

F.A.P. RT. 330 SEC. 104B-3-BR

WILL COUNTY

STATION 149+06.00

STRUCTURE NO. 099-4649

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
FAP 330	104B- 3-BR	WILL		42	29	11 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FEO. AID PR	DJECT-		

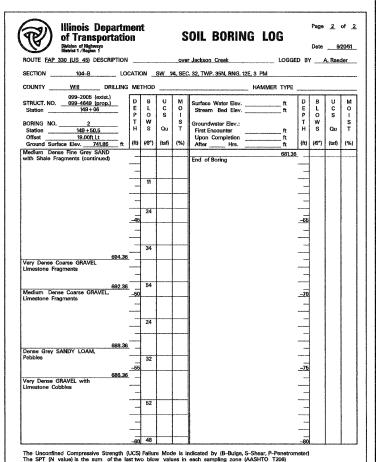
Contract No. 60B80

Illinois Departn of Transportation	ien	t		S	OIL BORING LOG	Page	1	of <u>2</u>
Division of Highways District 1 /Region 1	742			U	OIL DOMING LOG	Date	9	18/61
ROUTE FAP 330 (US 45) DESCRIPTION	_			ove	Jackson Creek LOGGED	BY	A. Rae	der
SECTION 104-B LO	CATIO	ON	SW 1	4, SEC	. 32, TWP. 35N, RNG. 12E, 3 PM			
	ME	THOD			HAMMER TYPE			
	D	В	U	м	Surface vader ciev.	D B	υ	М
Cantinu 1/0±06	E	L	C S	0	Stream Red Flev. ft	E L P O	c	°
DODING NO.	l f	w	١,	s		TW	1	s
BORING NO. 1 Station 148+60.5	н	s	Qu	Ť		H S	Qu	Ť
					First Encounterft Upon Completionft	-	1	
Ground Surface Elev. 741.65 ft	(ft)	(6")	(tsf)	(%)	After 7.2 Hrs. 724.65 ft	(ft) (/6")	1	(%)
Black SILTY CLAY - Topsoil					Stiff Grey CLAY, Sand Layer (continued)	T	В	
					Medium Dense, Very Fine Grey		1	
					SANDY LOAM	-		li
					-	26	+	$\vdash$
			1			No	Recov	ery
			1		_		T	
					_		1	
	_	11			717.15 Soft Grey SANDY CLAY LOAM	25 20	0.65	13
700 45	5		Recov	on	with Sand Seams	-25 20	0.05 B	"
736.15 Stiff Mottled CLAY, Pebbles		140	1000	,,	715.65	+	+-	-
	-				Very Stiff Grey CLAY Till, Pebbles	-1	1	
		10	1.79	21.8		21		16
			S	ļ	-		В	
733,15 Hard Brown CLAY Till, Pebbles			1		712.65	-		
Tana Brotan GDC1 Tilly 1 GDDIGG					Stiff Grey CLAY LOAM Till, with	-	ł	
	-10	15	5.18	15.7		-30 9	1.22	34
			В		_		В	
					710.65			
					Medium Dense Very Fine Grey SAND	4	1	
729.65 Stiff Grey CLAY Till, Wet Sand		9	1.06	15.8		14	+	$\vdash$
Layer at 11 feet	-	ľ	s	""		4"	1	
		l	<del>-</del>		_		T-	
		1	l		_		1	
				<u> </u>		1	╀	
	15	17	Recov	L.		-35 22		
726.15 Medium Dense Well Graded		NO	necov	ргу		+-	+	-
GRAVEL				1	-	-	1	1 1
						7	1	
		11			_	9	T	
		No	Recov	ery	_		1	
723.15				1		_	1	
Stiff Grey CLAY, Sand Layer			1	1	-		1	
	-	11	1.43	22.9		40 22	+	$\vdash$
	Z0	<u> </u>	رج.ر		L	-4U) -2		

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Illinois Departn of Transportatio	nent In	and the same	S	OIL BORING LOG	Page <u>2</u> of <u>2</u>
	OUTE FAP 330 (US 45) DESCRIPTION OVE				BY A. Raeder
SECTION 104-B LO	CATION _	SW 1	4, SEC	. 32, TWP. 35N, RNG. 12E, 3 PM	
COUNTY WIII DRILLING	METHOD			HAMMER TYPE	
STRUCT. NO. 999-2005 (exist.) Station 1499-06  BORING NO. 1 Station 148+60.5  Offset 17,00ft Rt Ground Surface Elev. 741,85 ft	D B E L P O T W H S (ft) (f6")	U C S Ou (tsf)	M O I S T	Surface Water Elev.	
Medium Dense Very Fin Grey SAND (continued)					
	15				
	=				
696.15 End of Boring	-45 20				
	$\exists$				
	-50				
	=				
	3				
	-60				
The Unconfined Compressive Strength (	UCS) Failur	e Mod	le is i	 	ter)

Illinois Depart	unen tion	II.		S	OIL BORING LOG			1	
Division of Highways District 1 /Hagion								9/	
ROUTE FAP 330 (US 45) DESCRIPTION	ON			ove	r Jackson Creek LOG	GED B	·	A. Raec	der
					C. 32, TWP. 35N, RNG. 12E, 3 PM		,		
OUNTY Will DRILLI 099-2005 (exist.)	NG ME	THOD			HAMMER TYP	'E			
STRUCT. NO. 099-4649 (prop.) Station 149+06		L	CS	M 0	Surface Water Elevft Stream Bed Elevft	=	B L O	CS	М О 1
BORING NO. 2	T	W	Qu	S	Groundwater Elev.:	T		Qu	S
BORING         NO.         2           Station         149 + 50.5           Offiset         19.00ft Lt           Ground         Surface Elev.         741.86	ft (ft)	(6")	i		First Encounter ft Upon Completion ft After Hrs. ft		(6")		
Black CLAY Topsoil					721	.36			
					Medium Dense Grey SANDY LOAM Layered with Grey Clay				
					718		14		
					Dense GRAVEL with Seams of Grey Sandy Loam	.86			
		9		18.8		-25	43		_
736 Medium Soft Mottled CLAY	.36								-
Alluvial	-								
		5	0.69 B	18.6			18	1.84 B	15
	_				712	.86			
				L.,	Stiff Grey CLAY Till, Few Stones and Pebbles				L
Stiff Brown CLAY Till	.86 -10	15		16.1	and Pebbles	-30	14	1.39 B	17
730	.36					-			
Grey CLAY, Very Stiff, Till		23	4				17	-	-
		-	E					-	
					Modium Danie Pine Press	.86			
	15	25		-	Medium Dense Fine Brown SAND, Pebbles	-35	12		
726 Medium Dense Coarse Grey	.36				705	.86		$\vdash$	<del> </del>
SAND, Layer of Grey Clay					Medium Dense Fine Grey SAND with Shale Fragments				
723	.86	14				_	No	Recov	ery
Loose Fine to Coarse GRAVEL, Layered with Stiff Grey Clay									
	20	8	-	-		-40	11		<u> </u>



BORING LOGS

F.A.P. RT. 330 SEC. 104B-3-BR

WILL COUNTY

STATION 149+06.00

STRUCTURE NO. 099-4649

ROUTE NO.	SECTION	co	UNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
FAP 330	104B- 3-BR	W.	ILL	42	30	11 SHEETS
FED. ROAD DIST	. ND. 7	ILLINOIS	FEO. AID PR	OJECT-		

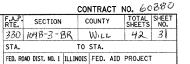
Contract No. 60B80

of Transportation  Division of Highways District 1 / Region 1	721			u	OIL BORING LOG		Date	6/3	3004
ROUTE FAP 330 (US 45) DESCRIPTION				ove	r Jackson Creek LOGG	ED B		MAO/J	JR
SECTION 104-B LOG	CATIC	ON _	SW 1	4, SE	C. 32, TWP. 35N, RNG. 12E, 3 PM				
COUNTY Will DRILLING	ME	THOD		CME 7	750; (3 1/4" ID HSA) HAMMER TYPE		ME-A	utoma	tic
099-2005 (exist.) STRUCT. NO. 099-4649 (prop.)	D	B	U	M	Surface Water Elev. 734.80 ft	DE	B L	U	M
Station 149+06	P	0	s	i i	Stream Bed Elev. 733.86 ft	P	0	s	1
BORING NO. C-1	H	W	Qu	S	Groundwater Elev.:	T H	W	Qu	S
Offset 15.00ft Rt		1			First Encounter 741.0 ft Upon Completion 711.0 ft				
Ground Surface Elev. 745.98 ft	(ft)	(6")	(tsf)	(%)	After ft	(ft)		(tsf)	(%)
Bituminous Shoulder 745,48 Stiff, Brown to Black, CLAY w					Very Stiff, Gray, CLAY		4	3.4	16
trace gravel and roots (Fill)						-	9	В	Ľ
				1					
		3				_	3		
	_	2	1.9	18			3	2.4	18
		3	В				5	В	
						-25			
	_	2	1.0	25	Grades w/trace sand		3	2.1	21
		3	В				5	В	۵,
738.98 Soft, Brown to Black, CLAY w/					Grades to Stiff w/sand seams				
trace sand	-	0		1	Grades to Still W sand seams		3		
		3	0.4	27			2	0.5	22
736.48		3	В				5	В	-
Soft, Gray, CLAY w/gravel	-10					-30			
	-	1 2	0.3	16	Grades w/trace gravel		3	1.4	15
		3	В				5	В	
733.98 Loose, Gray, SANDY CLAY	_					_			
LOAM w/gravel		3							
		4		17	712.4	8			
	-	4	-	├	Very Stiff, Gray, CLAY				
730.98	-15					-35			
Hard Gray CLAY	-	3	5.1	15			6	3.2	15
		7	В	L.			8	В	L
						_			
Medium Stiff, Gray, CLAY w/		4		1		-			
gravel (hit cobble)		16	1.0	13	707,4	8			
		26	В	-	Medium Dense, Gray, SAND layered w/gray clay				
725.98	-20			1		-40			ł

					Date6/30
Ν			ove	r Jackson Creek LOGGED	BY MACKUR
OCATIO	ON _	SW 1	/4, SEC	2. 32, TWP, 35N, RNG. 12E, 3 PM	
G ME	THOD		CME 7	50; (3 14" ID HSA) HAMMER TYPE _	CME-Automatic
D E	BL	U C	M O	Surface Water Elev. 734.80 ft Stream Bed Elev. 733.86 ft	
T	W		S	Groundwater Elev.:	
1	S	Qu	Т		
(ft)	(6")	(tsf)	(%)	After Hrs. ft	
_	5		22		
8	8				
_					
-45					
-					
-					1 1 1
-50					
_					
-					
_					
<u>-55</u>					
-					
_					
	D ME	DCATION G METHOD  D B L P O T W H S  (ft) (6") 2 5 8	DCATION SW 1  G METHOD  D B U  E L C  P O S  T W  H S Qu  (ft) (67) (1stf)  2 5  8 6	DOCATION _SW 143, SEC G METHOD	E L C O I STream Bed Elev. 733.86 ft T W S I Groundwater Elev.: 733.86 ft Groundwater Elev.: First Encounter 741.0 ft (ft) (67) (ssf) (%) After Hrs. ft  2 2 5 22 8

Illinois Departr	nen on	t		S	OIL BORING LOG		Page	1	of
District 1 / Region 1				_			Date	6/	290
ROUTE FAP 330 (US 45) DESCRIPTION	·			ove	r Jackson Creek LOGG	D B	Y	MAO	JR
SECTION 104-B LC	CATI	ON _	SW 1	4, SE	C, 32, TWP. 35N, RNG. 12E, 3 PM				
COUNTY Will DRILLING	ME	THOD		CME 7	50; (3 1/4" ID HSA) HAMMER TYPE		ME-A	utoma	tic
099-2005 (exist.) STRUCT, NO. 099-4649 (prop.)	D	В	U	м	Surface Water Elev. 734.80 ft	D	В	U	N
Station 149 + 06	E	L	C S	0	Stream Bed Elev. 733.86 ft	E	L	C S	1
BORING NO. C-2	Ť	w		s	Groundwater Elev.:	T	w	_	1
BORING NO. <u>C-2</u> Station 148+74 Offset 14.00R Lt	Н	s	Qu	T	First Encounter 726.0 ft	н	s	Qu	1
Ground Surface Elev. 745,96 ft	(ft)	(6")	(tsf)	(%)	Upon Completion 730.3 ft After 24 Hrs. 730.4 ft	(ft)	(6")	(tsf)	(9
Bituminous Shoulder 745.46	<del></del>	_	<b></b>	<del> </del>	Medium Dense, Gray, Coarse		4		$\vdash$
Medium Stiff, Brown/Black, CLAY w/trace gravel (Fill)			1		GRAVEL w/trace of sand and silty clay		6		12
	_						<u> </u>	$\vdash$	1
		3			723.44 Stiff to Very Stiff, Gray, CLAY w/	3	2		
		3	1.0	12	trace gravel		4	1.9	1 2
		2	P				5	В	L
	-	1				-			
		2				25	2		
		2	0.8	23			3	1.9	2
	-	3	В				7	В	┝
		١.		ļ			_		
		1	1,0	19	Grades w/sand seams		2	3.5	2
	_	3	В				6	В	L
	-					-			
Grades to Black	10	1	İ		Grades w/gravel	_30	2	l	Ĺ
		2	0.6 B	33 34			3	1.1 B	16
		3	-	34		-	-	-	┢
733.46	1_							1	
Soft, Mottled Brown/Gray, CLAY w/sand and gravel		2	0.5	23	712.4	_			
		3	В		Hard, Gray, CLAY		'		1
	-15					-35			
	10	1	L_			-35	5		L
		3 2	0.5 P	32			8 14	4.3 B	10
	_	-	r	-	Loose, Gray, Fine SAND	-	14	В	12
728.40	3								
Loose, Mottled Brown/Gray, SANDY CLAY LOAM		1 2		22					
	-	4					2		
					End of Boring 705 9	_	3		15
725.96	-20	L	L	L	End of Boring 705.96	5 -40		L	<u></u>

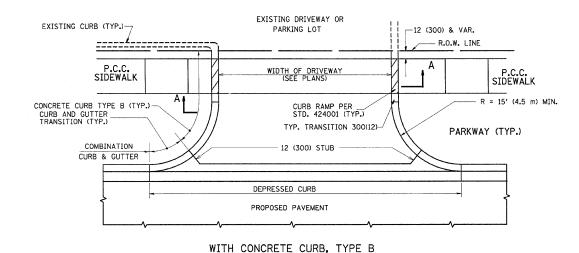
BORING LOGS F.A.P. RT. 330 SEC. 104B-3-BR WILL COUNTY STATION 149+06.00 STRUCTURE NO. 099-4649

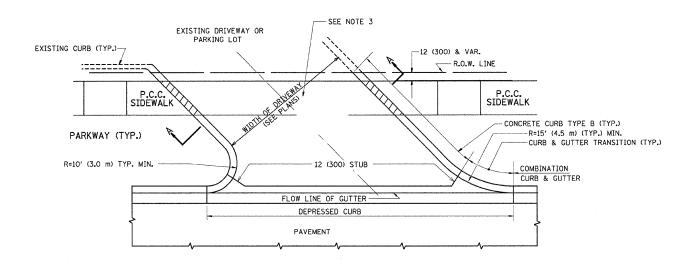


15' (4.5 m)

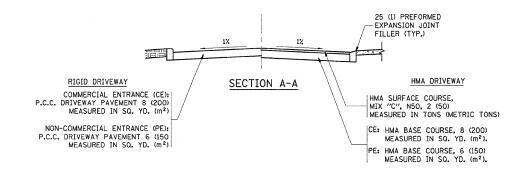
MIN.

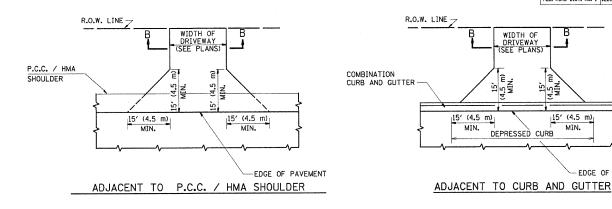
EDGE OF PAVEMENT

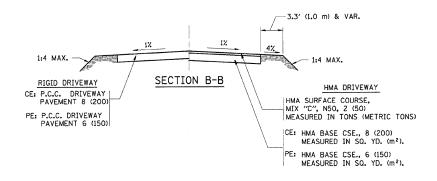




WITH CONCRETE CURB, TYPE B







RURAL FIELD ENTRANCE (FE) HMA SURFACE COURSE. MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE A 8 (200) MEASURED IN SQ. YD. (m²).

#### GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

## ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS		THE TNOTS DEPARTM	MENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DE ANTW	ALITY OF TRANSFORTATION
R. SHAH	11-04-95	DRIVEW	AY DETAILS
. POLLASTRINI	08-12-96		
. POLLASTRINI	12-14-96	IDISTANCE BE	TWEEN R.O.W. AND
A. ABBAS	03-21-97	FACE OF C	URB & EDGE OF
. HOLTZ	04-08-97		
M. GOMEZ	04-06-01	SHOULDER	>= 15′ (4.5 m)
. LaFLEUR	04-15-03		
R. BORO	01-01-07	SCALE: VERT. NONE	DRAWN BY
		HORIZ. NONE	URAWN DI

CHECKED BY

BD0156-07 (BD-01)

DATE VAME SCALE

PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING TEMP. RAMP (NOTE "C") (NOTE "E") PROP. HMA SURFACE REMOVAL EXIST. PAVEMENT MILLED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 1 PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING SAW CUT (INCLUDED IN THE COST OF HMA SURFACE (NOTE "C") (NOTE "E") PROP. HMA SURFACE REMOVAL REMOVAL - BUTT JOINT) 13/4 (45) FOR E AND F MIX 4'-6" (1.35 m) PAY LIMIT FOR BUTT JOINT 11/2 (40) FOR C AND D MIX (NOTE "D") (NOTE "F") EXIST. HMA EXIST. PAVEMENT HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 2 TYPICAL TEMPORARY RAMP HMA TAPER LENGTH \*\*\* SAW CUT (INCLUDED IN THE COST OF HMA SURFACE PROP. HMA SURF. CRSE. REMOVAL - BUTT JOINT) 4'-6" (1.35 m) PROP. HMA BINDER CRSE. VARIES \_ 13/4 (45) FOR E AND F MIX PAY LIMIT FOR BUTT JOINT (NOTE "D") 1/2 (40) FOR C AND D MIX EXIST. HMA SURF. EXIST. PAVEMENT HMA SURF. REMOVAL - BUTT JOINT 1<sup>7</sup>/<sub>2</sub> MIN.

BUTT JOINT AND

HMA TAPER

330 104B-3-BR WILL 42 32 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT SAW CUT (INCLUDED IN THE COST EXIST. HMA OR PCC SURFACE 30'-0" (9.0 m) (NOTE "A") OF HMA OR P.C.C. SURFACE REMOVAL 15'-0" (4.5 m) (NOTE "B") - BUTT JOINT) (NOTE "D") 13/4 (45) FOR E AND F MIX 11/2 (40) FOR C AND D MIX \* \* EXIST. PAVEMENT BUTT JOINT DETAIL TAPER LENGTH \* \*

#### TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

HMA TAPER DETAIL

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

\* \* EXIST. PAVEMENT

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.

PROP. HMA SURF. CRSE.

PROP. HMA BINDER CRSE.

- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

VARIES

- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS NAME BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE

CHECKED BY BD400-05 (VI=BD32)

DRAWN BY

CONTRACT NO. 60B80 COUNTY TOTAL SHEET NO.

RTE. SECTION

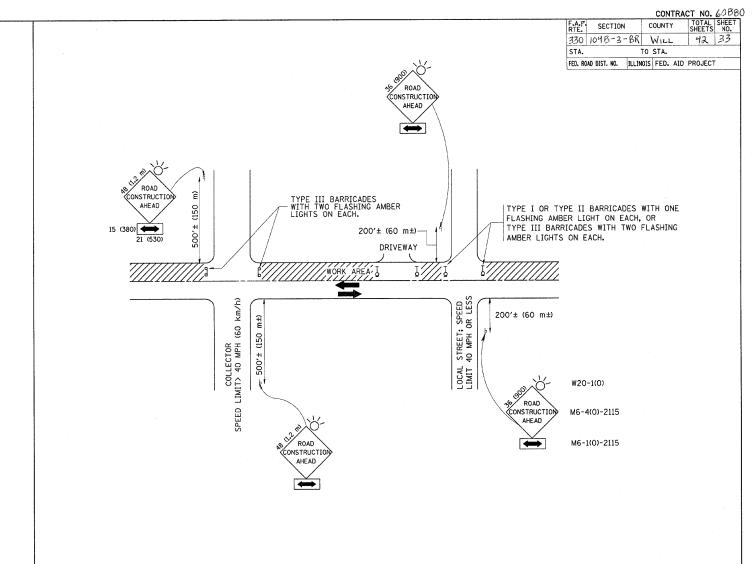
13/4 (45) FOR E AND F MIX

11/2 (40) FOR C AND D MIX

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

DATE NAME SCALE NAME



#### TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

#### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

ILLIN		REVISIO
ILLI	DATE	NAME
TRAFF	6/89	LHA
I I VAI 1	09/08/94	T. RAMMACHER
	10/18/95	J. OBERLE
SIDE	03/06/96	A. HOUSEH
SIDE	10/15/96	A. HOUSEH
	01/06/00	T. RAMMACHER
SCALE: NO		

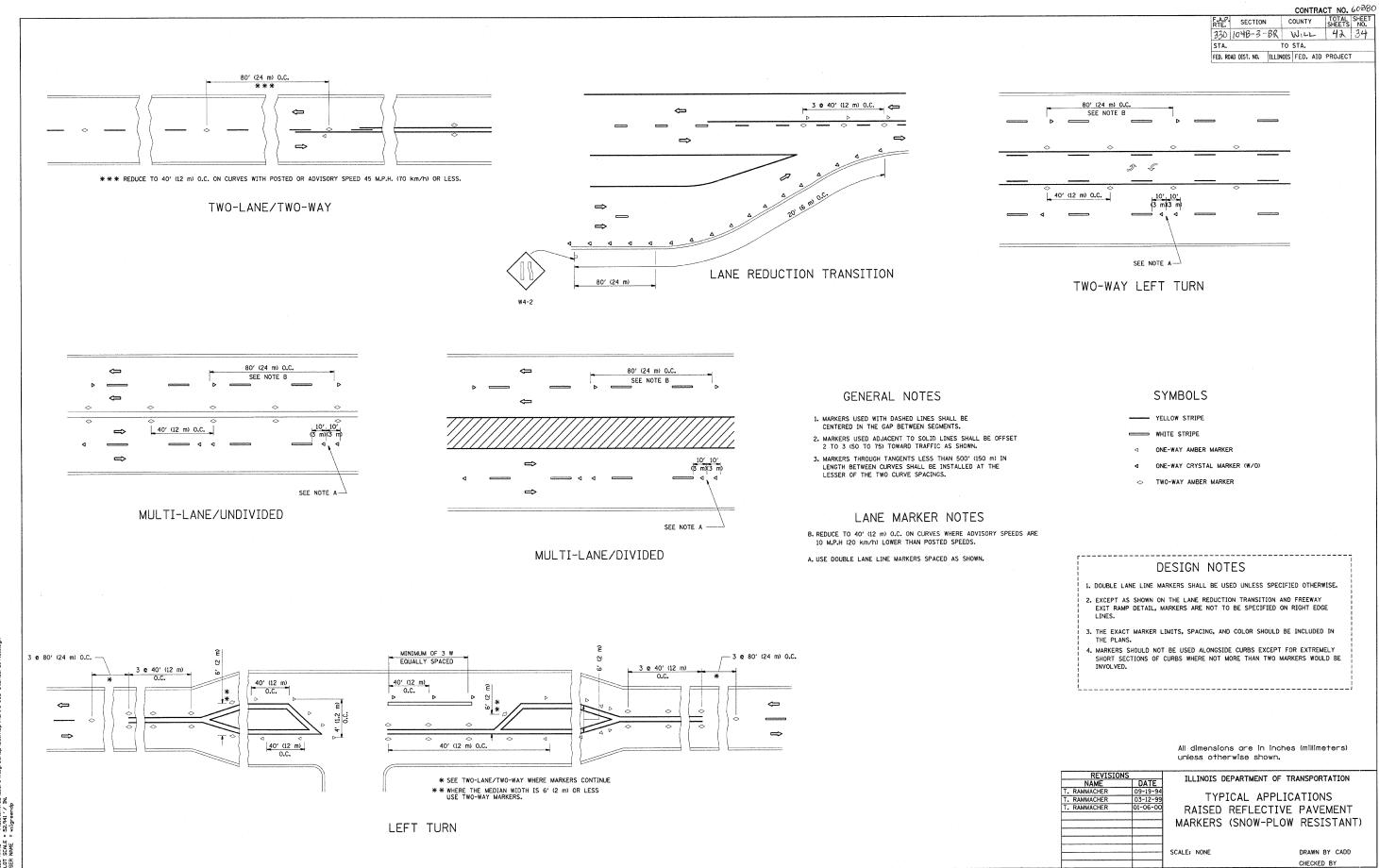
NOIS DEPARTMENT OF TRANSPORTATION FIC CONTROL AND PROTECTION FOR ROADS, INTERSECTIONS, AND

DRIVEWAYS

CHECKED BY

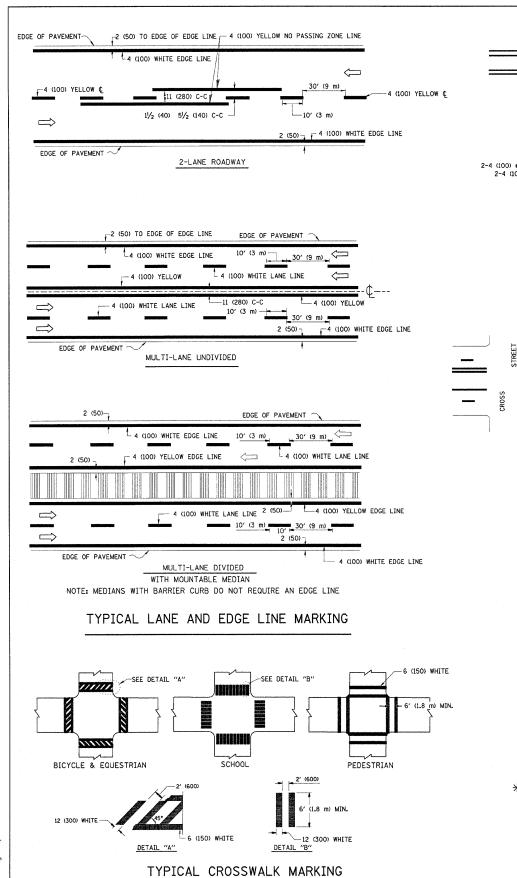
TC-10

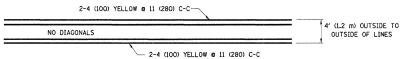
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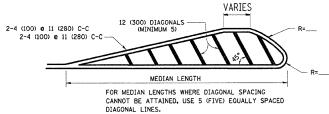
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LOT SCALE = 16.941 '/ IN.
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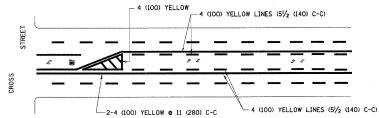


#### 4' (1.2 m) WIDE MEDIANS ONLY

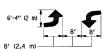


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

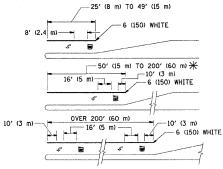


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

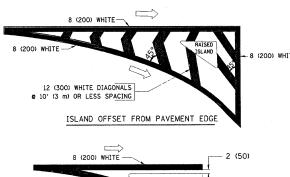
#### TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 S0. FT. (1.5 m² )  $\P^2$ 

 $\divideontimes$  TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE



RAISED ISLAND - 2 (50) ISLAND AT PAVEMENT EDGE

#### TYPICAL ISLAND MARKING

		,		<del></del>
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4. (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE THEORET ADVICE MEDIAN MANUAL
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"-3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"-54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>@</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

EVERS 03-19-90 10-27-94 10-09-96 10-17-96 . RAMMACHER ALEX HOUSEH

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

SCALE: NONE

CHECKED BY TC-13

CONTRACT NO. 60880 COUNTY TOTAL SHEET NO.

F.A.P. SECTION

STA.

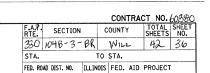
330 1048-3-BR WILL 42 35

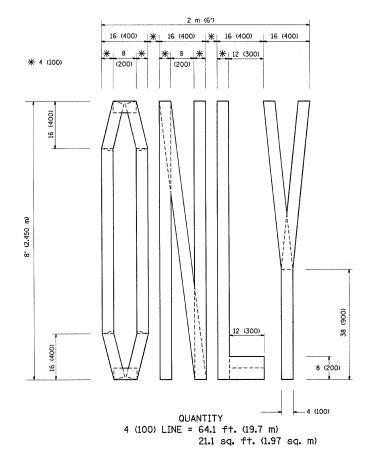
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

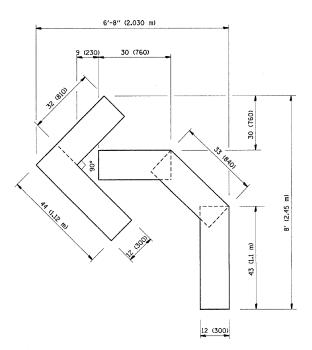
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DATE NAME SCALE NAME

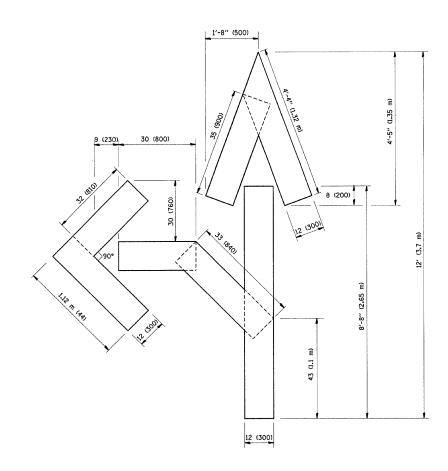
TYPICAL TURN LANE MARKING







QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

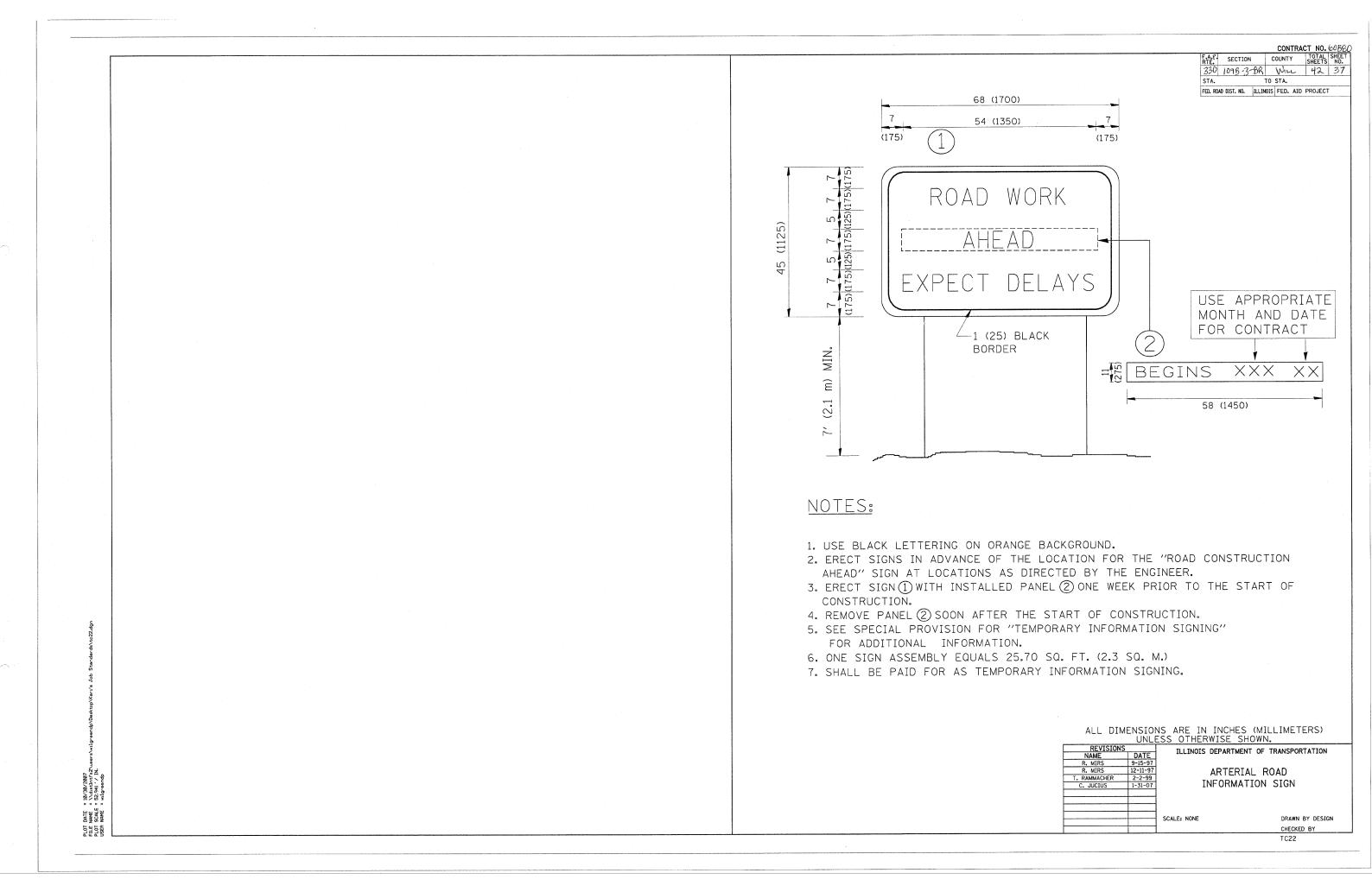
PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

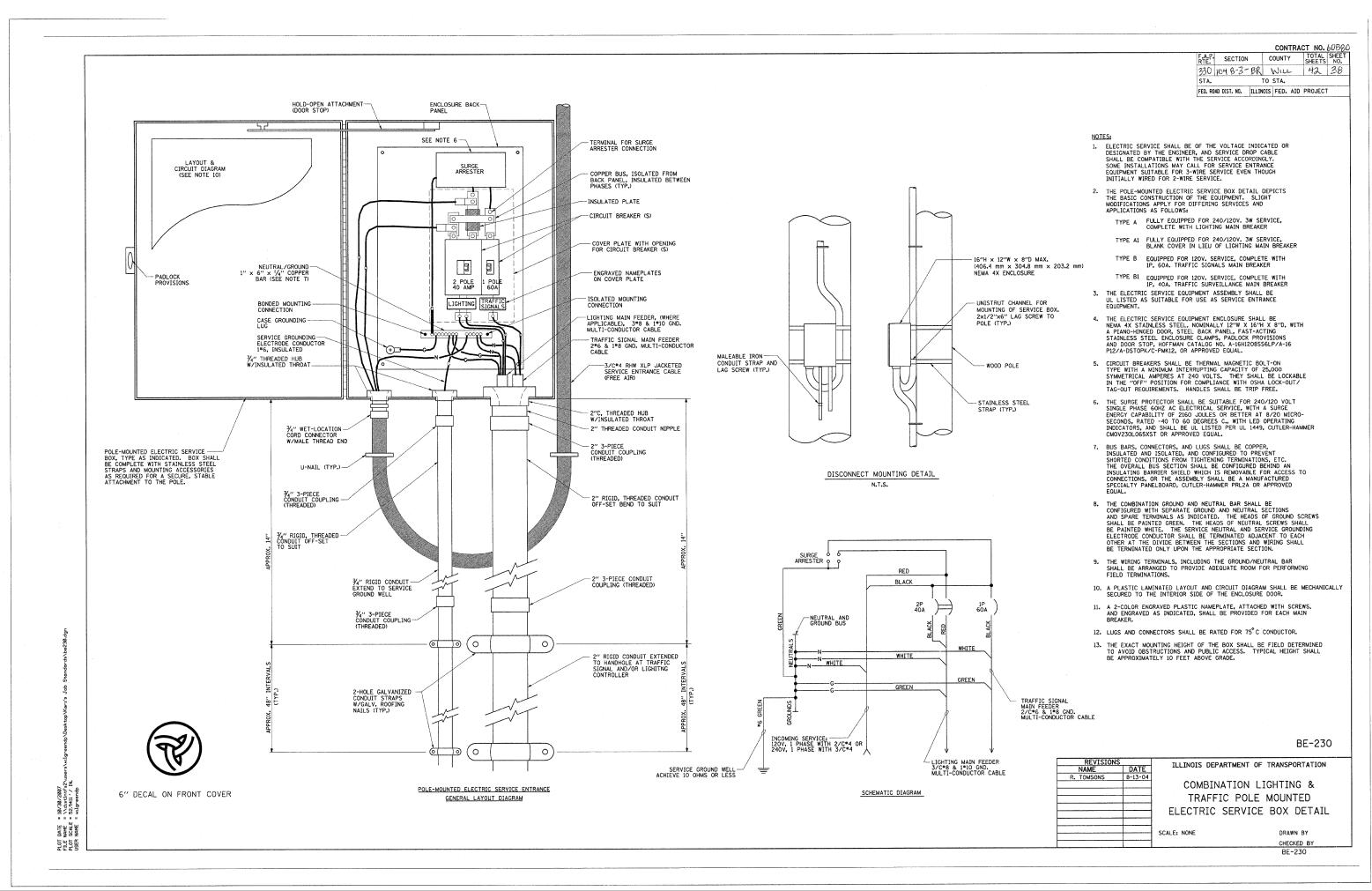
SCALE: NONE

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| DATE = 10/30/2007 | NAME = \\distlntfs2\us | SCALE = 52.9411 ' / IN. | NAME = wilgreendp

PLOT FILE 1 PLOT USER





TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

HEAVY DUTY INSULATED PULLEY CLEVIS WOOD POLE -BARE COPPER GROUND WIRE EVERY THIRD POLE MESSENGER TIED TO INSULATOR — WITH FACTORY FORMED CABLE TIE TO LUMINAIRE GROUND CLAMP -NEUTRAL CONDUCTOR AWG BARE COPPER GROUND WIRE PHASE CONDUCTOR WATERPROOF FUSEHOLDER & FUSE WATERPROOF INSULATION PIERCING TAP CONNECTOR WATERPROOF FUSEHOLDER AND SOLID NEUTRAL SLUG

TEMPORARY LIGHT POLE ATTACHMENT DETAIL

MAST ARM LENGTH AS SPECIFIED (TWIN ARMS WHERE INDICATED) CLEVIS -BARE COPPER 24" (610) GROUND WIRE LIFT PLATE-FORGED ANGLE THIMBLEYE 3 BOLT CLAMPS WOOD POLE CLASS AND LENGTH AS SPECIFIED 3/8" (9.5)-7 STRAND ZINC COATED STEEL GUY WIRE 3 BOLT CLAMPS 12" (304) MAX 4" (101) MIN. BACKFILL FINE WET LIMESTONE ANCHOR JOSLYN -SCREENING COMPACTED & THOROUGHLY TAMPED AT 1' (304) INTERVALS %" (15.9) X 8' (2.4 m) GROUND ROD - 6" (152) COARSE GRAVEL SETTLING PAD

TEMPORARY LIGHT POLE DETAIL

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

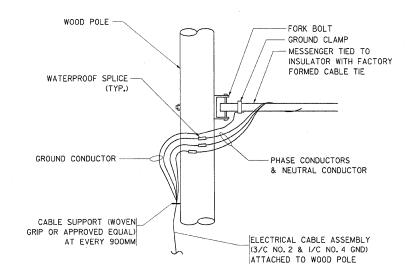
ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY LIGHT POLE DETAILS SCALE: VERT. NONE DRAWN BY CHECKED BY

BE-800

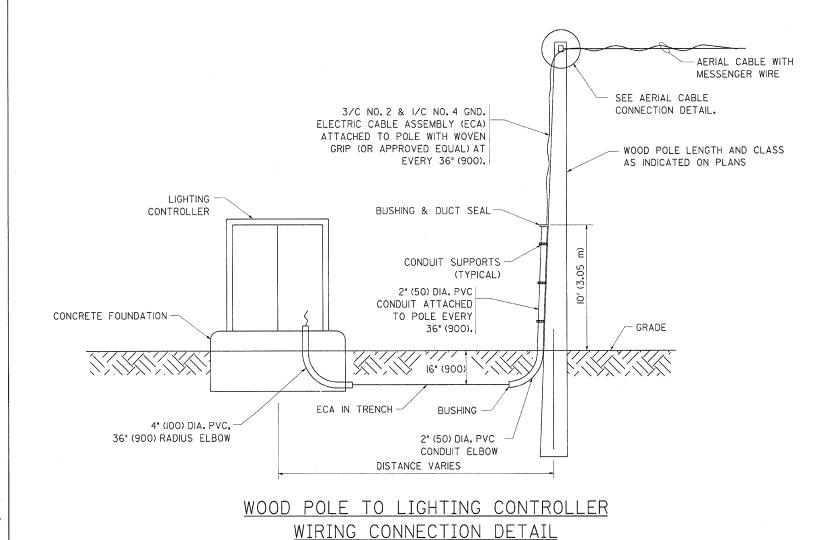
DATE NAME SCALE NAME

CONTRACT NO. 60880

COUNTY TOTAL SHEET SHEETS NO. F.A.P. SECTION 330 1048-3-BR WILL 42 40 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



## AERIAL CABLE CONNECTION DETAIL



N.T.S.

- 1/2" (12.7) GALVANIZED "THIMBLEYE" 1/2" (12.7) GALVANIZED-CAST IRON BEAM CLAMP  $-\frac{1}{2}$ " (12.7) GALVANIZED GUY CLIPS -GALVANIZED STEEL 7777 MESSENGER WIRE HOOK BENT-TO SIZE GROUND WIRE 1/2" (12.7) STEEL GALVANIZED BOLT OR TREADED ROD AERIAL CABLE GALVANIZED CONDUIT HANGER ELECTRIC CABLE ASSEMBLY

#### AERIAL CABLE ATTACHED TO STRUCTURE NOT TO SCALE

#### NOTES:

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

REVISIONS NAME DATE ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY AERIAL CABLE INSTALLATION

SCALE: VERT. NONE

DRAWN BY CHECKED BY

DATE NAME SCALE NAME PLOT FILE PLOT USER

