STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROJECT LOCATED IN THE VILLAGE
OF BARRINGTON IN LAKE COUNTY, IL

DESIGN DESIGNATION
OTHER PRINCIPAL ARTERIAL

POSTED SPEED LIMIT 30 MPH

ADT 17,800 (2007)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

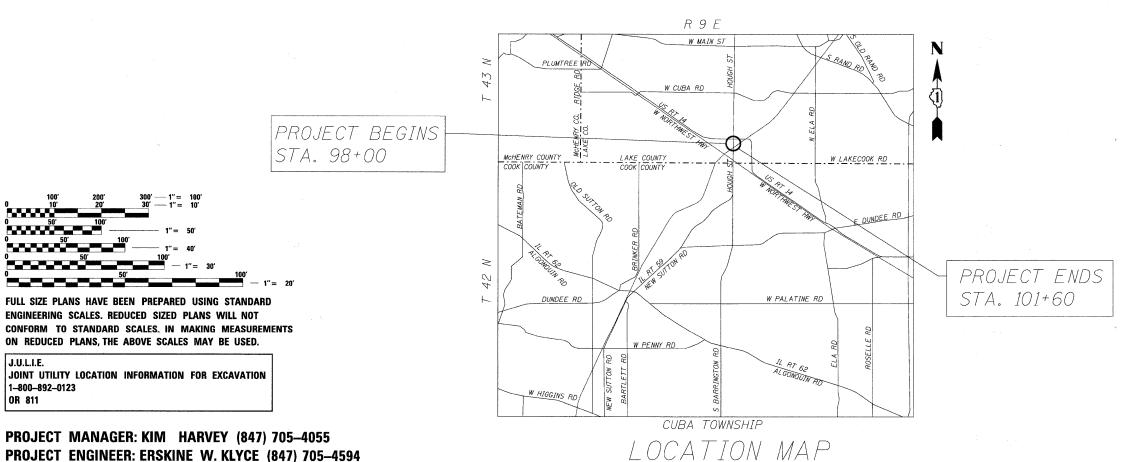
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.P. ROUTE 338 (IL ROUTE 59) HOUGH ROAD OVER FLINT CREEK TRIBUTARY (0.1 MI SOUTH OF US ROUTE 14)

SECTION: 108 B-1 LAKE COUNTY

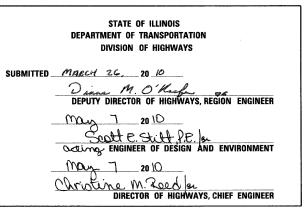
C-91-289-09

PPC DECK BEAM REPLACEMENT PROJECT SN 049-0152



D-91-289-09





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CONTRACT NO. 60F92

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NET AND GROSS LENGTH OF PROJECT = 360' = 0.068 MI

STATE STANDARDS

SHEET NO.	<u>TITLE</u>
1	TITLE SHEET
2	GENERAL NOTES, STATE STANDARDS AND INDEX OF SHEETS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	STAGING TYPICAL SECTIONS
7	CONSTRUCTION STAGING PLAN - STAGE 1
8	CONSTRUCTION STAGING PLAN - STAGE 2
9	PLAN AND PROFILE
10	PAVEMENT MARKING PLAN
11	EROSION CONTROL PLAN
12	ELECTRICAL PLAN
13-29	STRUCTURAL PLANS
30	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15'
31	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB IS LESS THAN 15'
32	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
33	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
34	BUTT JOINT AND HMA TAPER DETAILS
35	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
36	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
37	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
38	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
39	ARTERIAL ROAD INFORMATION SIGN
40	SIGNING AND PAVEMENT MARKINGS TREATMENT FOR RAILROAD CROSSINGS
	HIGHWAY STANDARDS

SHEET NO.	TITLE
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT REBARS
280001 -05	TEMPORARY EROSION CONTROL SYSTEMS
420401 -08	BRIDGE APPROACH PAVEMENT CONNECTOR
442201 -03	CLASS C AND CLASS D PATCHES
515001 - 03	NAME PLATE FOR BRIDGE
701301 - 03	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701321 - 10	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901 -01	TRAFFIC CONTROL DEVICES
704001 -06	TEMPORARY CONCRETE BARRIER
720001 -01	SIGN PANEL MOUNTING DETAILS
720006 - 02	SIGN PANEL ERECTION DETAILS
720011 - 01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001 - 01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS)

GENERAL NOTES

ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.

DIMENSIONS ARE IN ENGLISH UNITS UNLESS OTHERWISE NOTED.

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

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT LISTED IN THE PLANS WITH THE LATEST NUMBERS.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING PROPERTIES.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC ENGINEER, AT (847) 438-2300 AT A MINIMUM OF 2 WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ALL WORK IS TO BE COMPLETED WITHIN 30 WORKING DAYS.

CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	DESIGNED	-	MJY	REVISED	-
	DRAWN	-	ST, TSC	REVISED	-
	 CHECKED	-	MJY, SLV	REVISED	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE	-	03/26/2010	REVISED	~

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	NOTES, STATE STANDARD L ROUTE 59 OVER FLINT	S AND INDEX OF SHEETS CREEK TRIBUTARY
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 98+00 TO STA. 101+60

F.A.P RTE.	· SEC	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
338	108	B-1	LAKE	40	2
	D-91-289	-09	CONTRACT	NO. 6	0F92
FED.	ROAD DIST. NO.	ILLINOIS FED. A	AID PROJECT		

	SUMMARY OF QUANTITIES		URBAN	100% S	STATE	SUMMARY OF QUANTITIES			URBAN 100% STATE	100%	STATE
CODE NO.	ITEM	UNIT	URBAN 1007. STATE TOTAL QUANTITIES	ROADWAY IOOO	BRIDGE X081-2A	CODE NO.	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY IOOO	BRIDGE X081-2A
20101100 20200100	TREE TRUNK PROTECTION	EACH CU YD	3 157	3 157		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	76	76	
21101815	COMPOST FURNISH AND PLACE, 4"	SQ YD	232	232		20004552	APPRÖACH SLAB REMOVAL	SQ YD	249		249
25000310	SEEDING, CLASS 4	ACRE	0.1	0.1		20004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMEN	FOOT	553	553	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9		44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	220	220	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9		44004600	SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	3624	3624	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9		44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	73	73	
25100630	EROSION CONTROL BLANKET	SQ YD	232	232		44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	88 .	88	:
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10		44201757	CLASS D PATCHES, TYPE III, 9 INCH	'SQ YD	59	59	
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60		50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
28000400	PERIMETER EROSION BARRIER	FOOT	544	544		50102400	CONCRETE REMOVAL	CU YD	12.0		12.0
28000510	INLET FILTERS	EACH	6	6		50300225	CONCRETE STRUCTURES	CU YD	37,4		37.4
35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	76	76		50300255	CONCRETE SUPERSTRUCTURE	CU YD	188.3		188.3
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	1		50300260	BRIDGE DECK GROOVING	SQ YD	184		184
	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	52	52		50300300	PROTECTIVE COAT	SQ YD	688		688
40601005	HOT MIX ASPHALT RINDER COURSE IL 10.0 NZO	TON	37	37		50400205	PRECAST PRESTRESSED CONCRETE DECK BEAMS (11" DEPTH)	SQ FT	1650		1650
40603085	HOT-MIX ASPHALT SURFACE COURSE MIX "C" MEO	TON	183	183		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	50390		50390
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	9	9		50800515 20007122	BAR SPLICERS REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	97		97
42001430	BRIDGE APPROACH CONNECTOR (FLEXIBLE)	SQ YD	86	86		51500100	NAME PLATES	EACH	1		1
1	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, & INCH PAVEMENT REMOVAL	50 YD		5 6		59000200	EPOXY CRACK INJECTION	FOOT	6		6
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	1116	1116		60257900	MANHOLES TO BE RECONSTRUCTED	EACH	4	2	2
										4	

* SPECIALTY ITEMS

	DESIGNED - MJY		
	DRAWN - ST, TSC	REVISED -	
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY, SLV	REVISED -	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE ~ 03/26/2010	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES						
	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY					
SCALE: NONE	SHEET NO. 1 OF 2 SHEETS STA. 98+00 TO STA. 101+60					

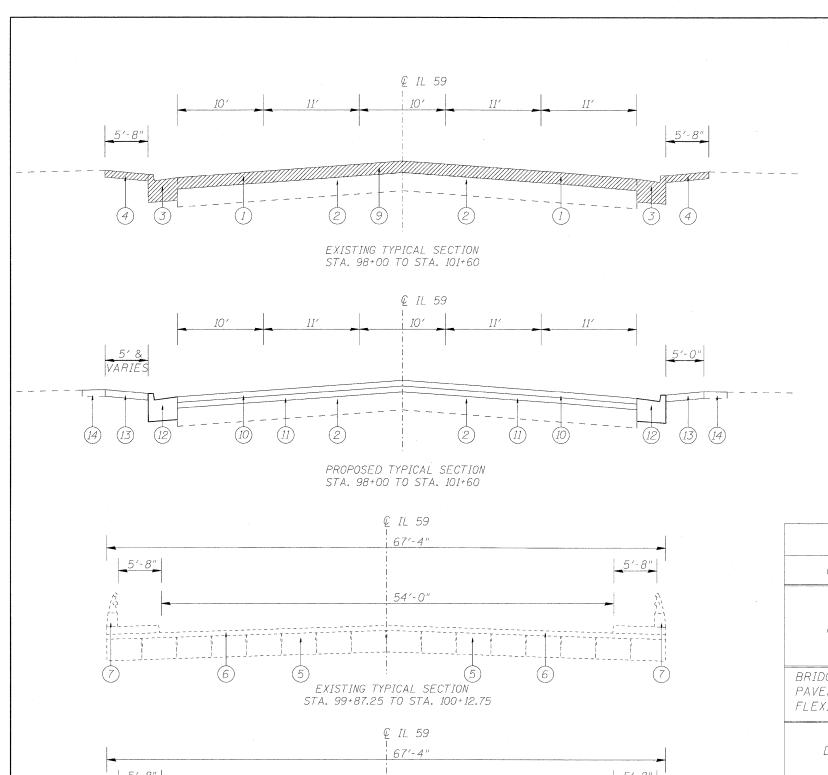
	SUMMARY OF QUANTITIES			100% STATE				SUMMARY OF QUANTITIES			100%	STATE	
CODE	NO.	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY IOOO	BRIDGE X081-2A		CODE NO.	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY IOOO	BRIDGE X081-2A
60262	2700	INLETS TO BE RECONSTRUCTED	EACH	2	1	1		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	. 46	38	8
60300	0105	FRAME AND GRATES TO BE ADJUSTED	EACH	4		4	*	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	45	45	
60300	305	FRAME AND LIDS TO BE ADJUSTED	EACH	2	2		**	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" x 12" x 6"	EACH	2	2	
67000	0400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9		*	81306500	REMOVE EXISTING JUNCTION BOX	EACH	2	2	
67100	0100	MOBILIZATION	L SUM	1	1		*	81400115-	HANDHOLE TO BE ADJUSTED	EACH	-1-	-1-	
701018	800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			20030850	TEMPORARY INFORMATION SIGNING	SQ FT	78	78	
701068	800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12		*	X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	F00T	45	45	
70400	0100	TEMPORARY CONCRETE BARRIER	FOOT	364	364		*	20033024	MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1	1	
70400.	200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	220	220			20012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS 5 INCHES)	SQ FT	8		8
78000	0100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	131	131			×7030104	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	5626	5626	
* 78000	200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2551	2551			X7030106	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 6 INCH	FOOT	220	220	
* 78000	9400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	436	436		The state of the s	X7030124	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	81	81	
* 78000	0600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	F00T	52	52		OPERATOR AND	X7030120	WET TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS	SQ FT	115	115	
* 78000	0650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	F00T	33	33			X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	184		184
* 78005	5110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	507	507		mit.	X7240500	RELOCATE EXISTING SIGNS	EACH	1	1	
* 78005	5130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	46	46			X2800510	INLET FILTER CLEANING	EACH	6	6	
* 78005	5150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	13	13			Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* 78100.	0100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	38	38			Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2	
* 78100.	0105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8		8			IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2 BRICK SIDEWIALK	EACH SQ FT	2 753	2 753	
* 78200	0500	BARRIER WALL MARKERS	EACH	16	16		And a section of the property of the first of the section of the s		BRICK SIDEMALK REMOVAL	SQFT	753	753	
78300	0100	PAVEMENT MARKING REMOVAL	SQ FT	561	561								

* SPECIALTY ITEMS

	DESIGNED -	MJY		
	DRAWN -	ST, TSC	REVISED -	
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED ~	MJY, SLV	REVISED -	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE -	03/26/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES						
I	L ROUTE 59 OVER FLINT	CREEK TRIBUTARY				
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. 98+00 TO STA. 101+60				



54'-0"

PROPOSED TYPICAL SECTION

STA, 99+87.25 TO STA, 100+12.75

LEGEND

- 1) EXISTING HMA OVERLAY
- (2) EXISTING PCC BASE COURSE, 10"
- (3) EXISTING CONCRETE CURB AND GUTTER, B-6.12 TO BE REMOVED (STA. 98+00 TO STA. 101+60)
- (4) EXISTING PCC SIDEWALK, 5" TO BE REMOVED (STA. 98+00 TO STA. 101+60)
- (5) EXISTING PPC DECK BEAMS
- (6) EXISTING HMA WEARING SURFACE (2")
- (7) EXISTING PARAPET WALLS
- (8) PROPOSED PCC SIDEWALK, 5" (PAID AS CONCRETE SUPERSTRUCTURE)
- (9) PROPOSED HMA SURFACE REMOVAL, 3"
- (10) PROPOSED HMA SURFACE CSE., MIX "D", N70, 1 2"
- (11) PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 4"
- (12) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, B-6.12 REDUCE SPACE REPLACEMENT
- (13) PROPOSED PCC SIDEWALK, 5" REPLACEMENT
- (14) PROPOSED COMPOST FURNISH AND PLACE, 4", WITH SEEDING, CLASS 4
- (15) PROPOSED PPC DECK BEAMS (11" DEPTH)
- (16) PROPOSED PARAPET WALL (PAID AS CONCRETE SUPERSTRUCTURE)
- (17) PROPOSED CONCRETE WEARING SURFACE, 5"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS						
OPERATION	MIXTURE TYPE	DESIGN AIR VOIDS				
	HMA SURFACE COURSE, MIX "D", N7O (IL-9.5 mm)	4% @ 70 GYR				
DO A DIMA V	HMA BINDER COURSE, IL-19.0, N70	4% @ 70 GYR				
ROADWAY	CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 GYR				
	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR				
BRIDGE APPROACH PAVEMENT CONNECTOR	HMA SURFACE COURSE, MIX "D", N7O (IL-9.5 mm), 2"	4% @ 70 GYR				
FLEXIBLE, 15"	HMA BINDER COURSE, IL-19.0, N70, 13"	4% @ 70 GYR				
DDIVEWAY	HMA SURFACE COURSE, MIX "C", N50 (IL-9.5 mm), 2"	4% @ 50 GYR				
DRIVEWAY	HMA BASE COURSE (HMA BINDER IL-19.0), 4"	4% @ 50 GYR				

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQ-YD/IN.

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

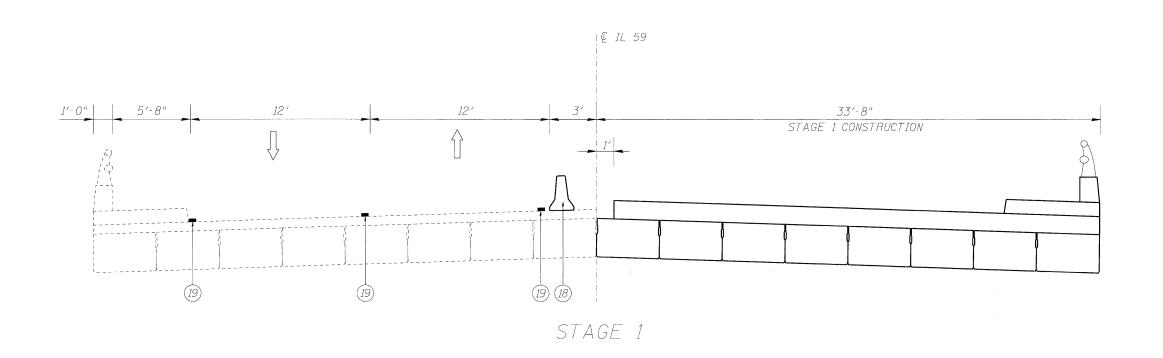
FOR "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

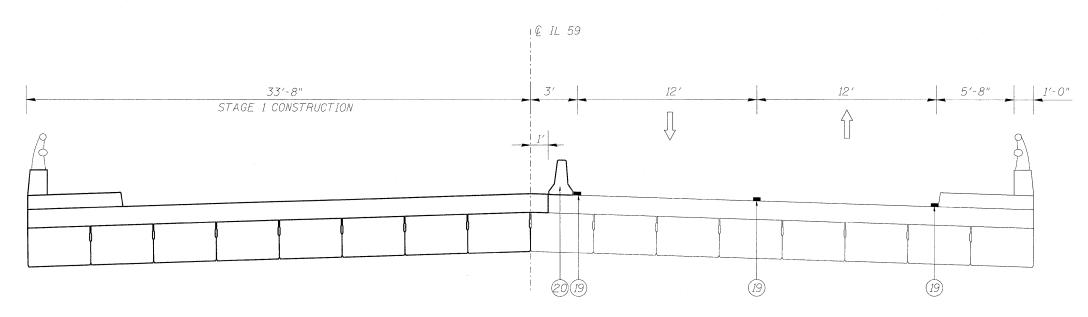
	DESIGNED - MJY	
	DRAWN - ST, TSC	REVISED -
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	CHECKED - MJY, SLV	REVISED -
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 03/26/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(8)

	TYPICAL SECT	TIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	IL ROUTE 59 OVER FLINT	CREEK TRIBUTARY	338	108 B-1	LAKE	40	5
	IL HOUTE OF OVER TEHT	UNLER THISOTANT		D-91-289-09	CONTRACT	NO. 60	F92
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 98+00 TO STA. 101+60	FED. RO	DAD DIST, NO. ILLINOIS FED. AL	ID PROJECT		

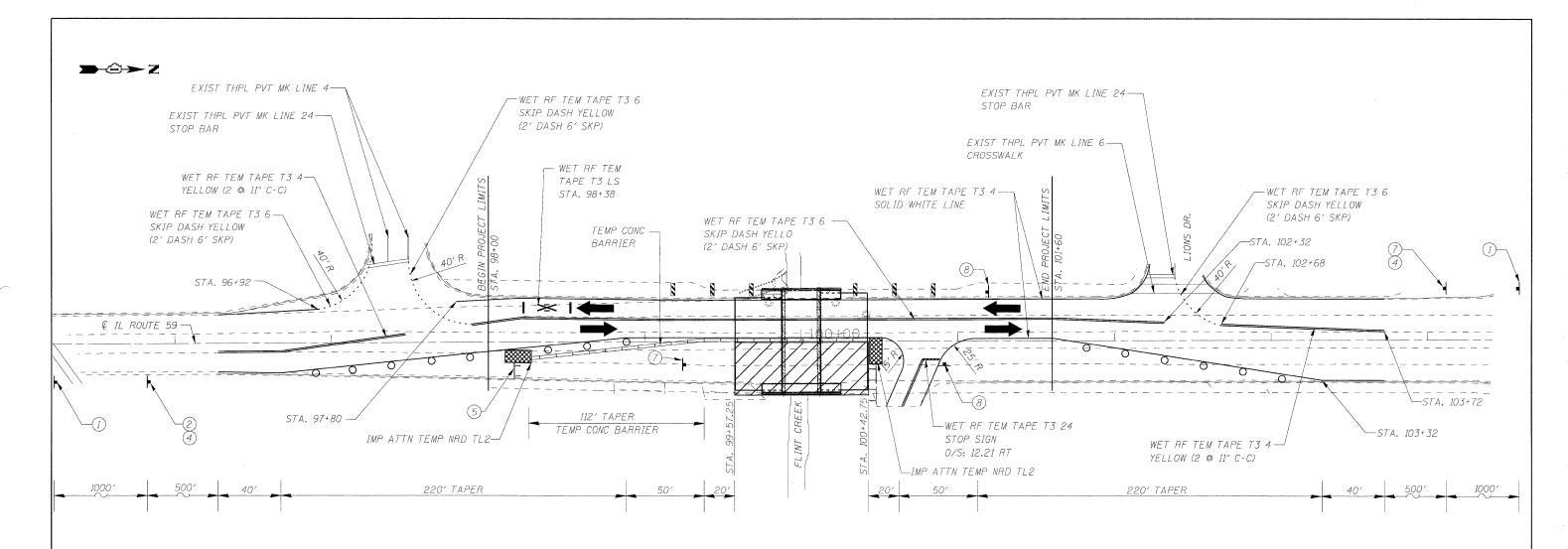




STAGE 2

- 18) TEMPORARY CONCRETE BARRIER
- (19) WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4"
- (20) RELOCATE TEMPORARY CONCRETE BARRIER

	DESIGNED - MJY			STAGING TYPICAL SECTIONS	F.A.P. SECTION	COUNTY TOTAL SHEET
	DRAWN - ST. TSC	REVISED -	STATE OF ILLINOIS		770 100 D-1	1 AKE 40 6
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY, SLV	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	D-91-289-09	CONTRACT NO 60F92
NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100	DATE - 03/26/2010	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 98+00 TO STA. 101+60	FED. ROAD DIST. NO. ILLINOIS FEE	D. AID PROJECT



LEGEND



o - BARRICADE W/ STEADY BURN LIGHT

L - TYPE III BARRICADE WITH FLASHING LIGHTS

▶ - SIGN

- IMPACT ATTENUATORS

------ CONCRETE BARRIER

- DOUBLE VERTICAL PANEL

NOTES:

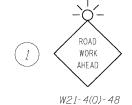
BARRICADE AND PANEL SPACING SHALL BE 25' CENTERS IN TAPER SECTIONS AND 50' CENTERS IN TANGENT SECTIONS.

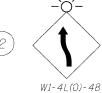
VERTICAL PANELS SHALL BE USED WHEN BARRICADES CANNOT BE PLACED ON THE EXISTING PAVEMENT OR PAVED SHOULDER.

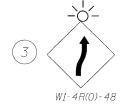
ALL SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET SHALL BE ACCORDING TO SECTION 701 OF THE STANDARD SPECIFICATIONS AND SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION, SPECIAL."

STAGE 1

- 1. INSTALL TRAFFIC CONTROL AND TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH STAGE 1 MAINTENANCE OF TRAFFIC.
- 2. REMOVE EAST PORTION (8 DECK BEAMS) OF EXISTING SUPERSTRUCTURE, AND EXISTING APPROACH PAVEMENT.
- 3. INSTALL NEW BEAMS, CONCRETE WEARING SURFACE AND PARAPET WALLS.
- 4. CONSTRUCT NEW CONCRETE APPROACH SLABS AND APPROACH PAVEMENT.
- 5. CONSTRUCT ROADWAY ON EAST SIDE OF IL ROUTE 59 IN ACCORDANCE WITH SHEET 9.



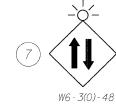
















SCALE: 1"= 30"

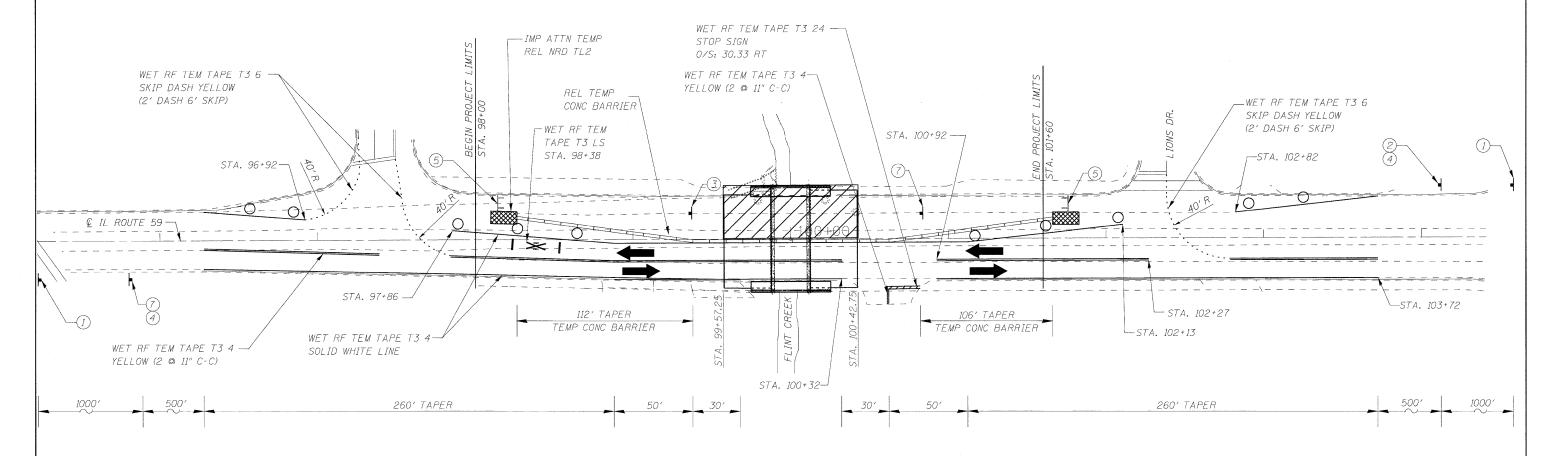
DESIGNED -MJY ST, TSC REVISED CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 ERVILLE, ILLINGIS 60563 PH: (630) 577-910 CHECKED MJY, SLV REVISED - 03/26/2010 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION STAGING PLAN - STAGE 1 IL ROUTE 59 OVER FLINT CREEK TRIBUTARY SCALE: 1" = 30' SHEET NO. 1 OF 2 SHEETS STA. 98+00 TO STA. 101+60

	D-91-289	I-09	CONTRACT	NO. E	OF 92
338	108	8-1	LAKE	40	7
A.P.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.





LEGEND



o - BARRICADE W/ STEADY BURN LIGHT

E - TYPE III BARRICADE WITH FLASHING LIGHTS

▶ - SIGN

- IMPACT ATTENUATORS

- DOUBLE VERTICAL PANEL

** - ATTENUATOR WATER FILLED

NOTES:

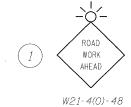
BARRICADE AND PANEL SPACING SHALL BE 25' CENTERS IN TAPER SECTIONS AND 50' CENTERS IN TANGENT SECTIONS.

VERTICAL PANELS SHALL BE USED WHEN BARRICADES CANNOT BE PLACED ON THE EXISTING PAVEMENT OR PAVED SHOULDER.

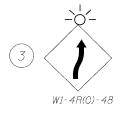
ALL SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET SHALL BE ACCORDING TO SECTION 701 OF THE STANDARD SPECIFICATIONS AND SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION, SPECIAL."

STAGE 2

- 1. INSTALL TRAFFIC CONTROL AND TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH STAGE 2 MAINTENANCE OF TRAFFIC.
- 2. REMOVE WEST PORTION (8 DECK BEAMS) OF EXISTING SUPERSTRUCTURE, AND EXISTING APPROACH PAVEMENT.
- 3. INSTALL NEW BEAMS, CONCRETE WEARING SURFACE AND PARAPET WALLS.
- 4, CONSTRUCT NEW CONCRETE APPROACH SLABS AND APPROACH PAVEMENT.
- 5. CONSTRUCT ROADWAY ON WEST SIDE OF IL ROUTE 59 IN ACCORDANCE WITH SHEET 9.



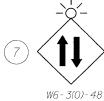
W1-4L(0)-48













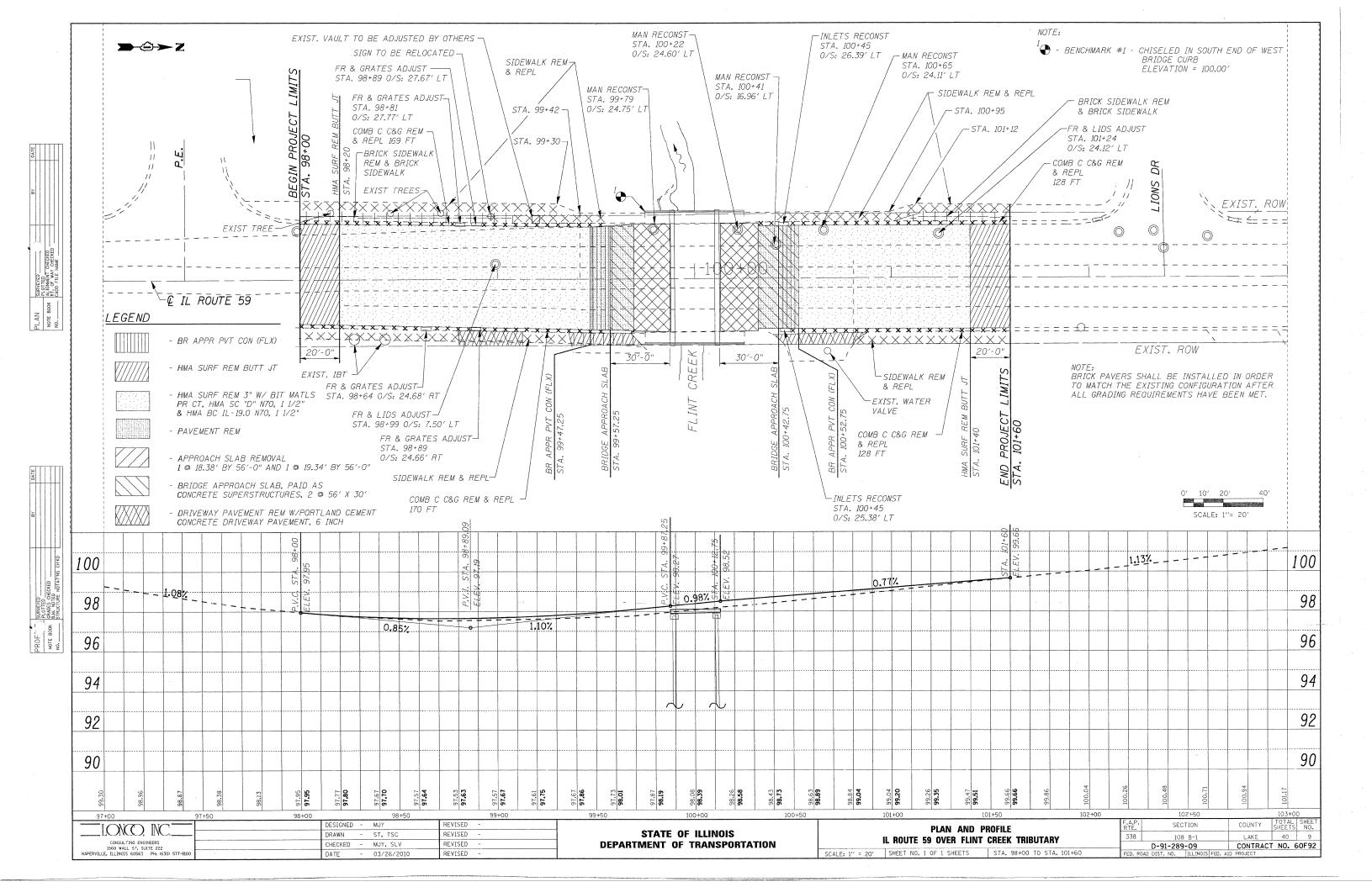
SCALE: 1"= 30"

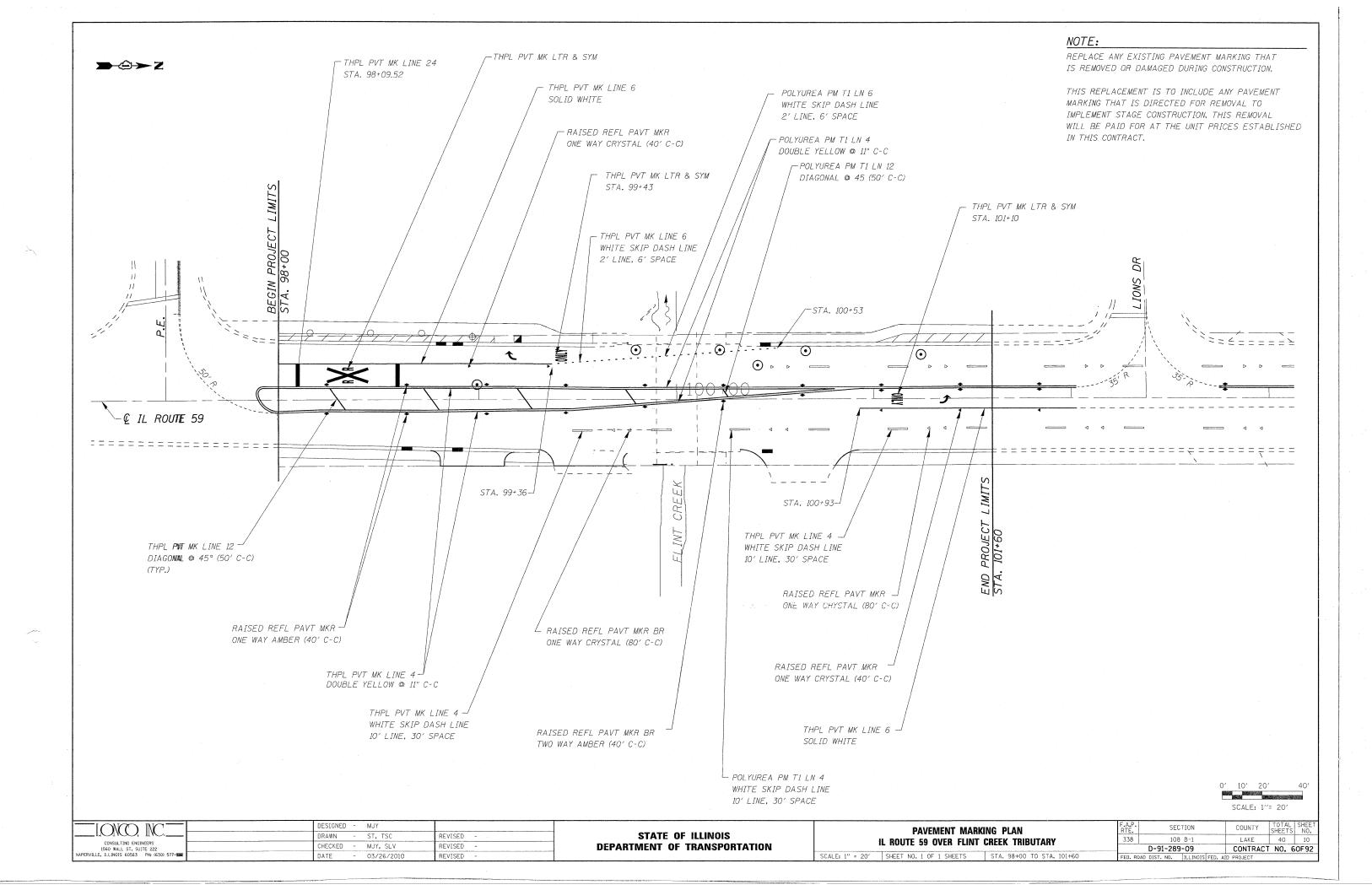
	DESIGNED	-	MJY			
	DRAWN	-	ST, TSC	REVISED	-	
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED		MJY, SLV	REVISED	-	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE	-	03/26/2010	REVISED	**	L

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	CONSTRU	CTION :	STAGING	PLAN	- STAG	E 2
	IL ROUTE	59 OVE	R FLINT	CREEK	TRIBUT	ARY
301	SHEET NO	2 OF 2	SHEETS	STAC	BTUU IU	STA 101460

RTE.		SECTION					COUNTY	TOTAL SHEETS	SHEET NO.
338			108	B-1			LAKE	40	8
		D-91	-289	-09		T	CONTRACT	NO. 6	OF 92
FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		





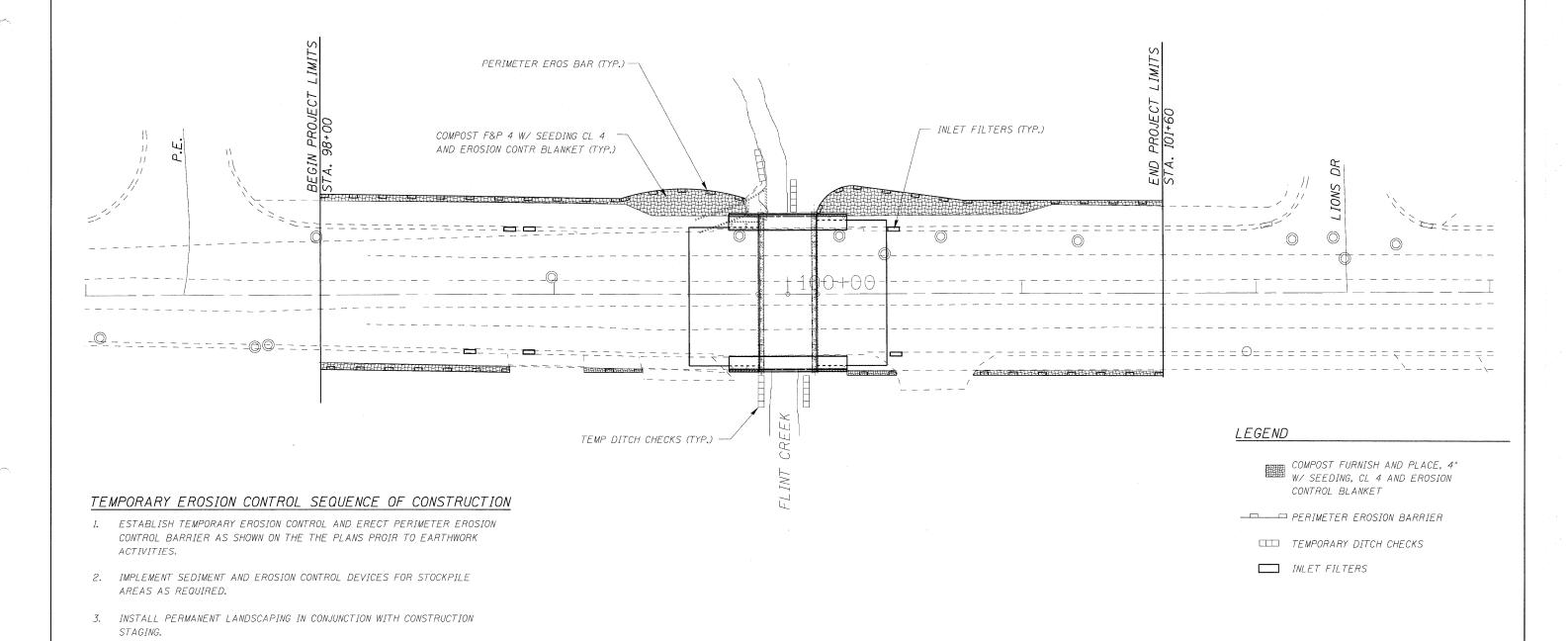
TEMPORARY EROSION CONTROL NOTES

4. CLEAN DRAINAGE FACILITIES AND REMOVE TEMPORARY EROSION CONTROL
DEVICES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED.

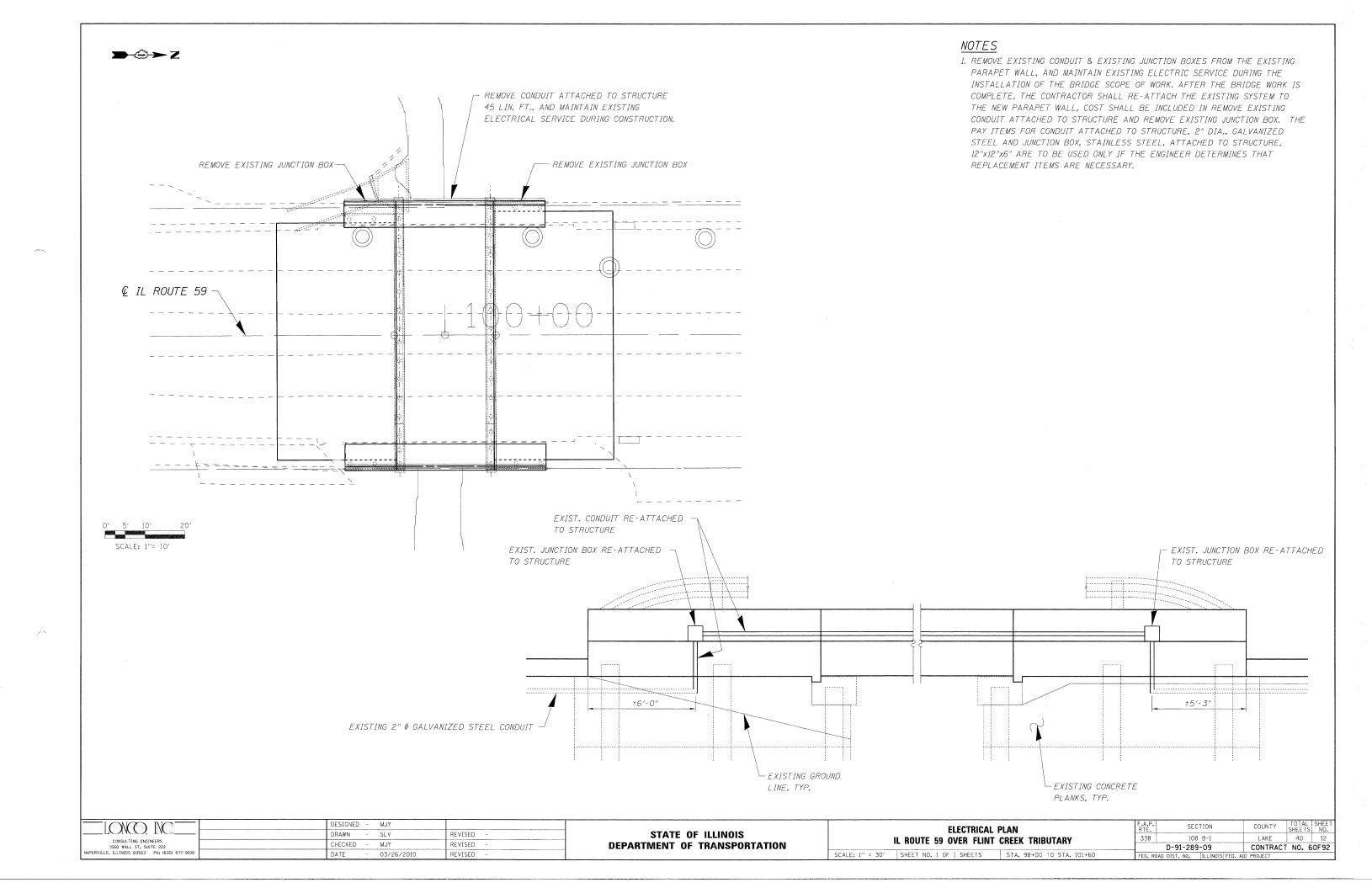


- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER POLICY.
- 2. THE CONCTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER PRIOR TO STRIPPING OF VEGETATION.
- 3. THE CONTRACTOR SHALL SURROUND ANY NECESSARY EARTH STOCKPILES WITH PERIMETER EROSION BARRIER.
- 4. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AT ALL TIMES. EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS OR WITHIN 24 HOURS AFTER A 13 MM (0.5 INCH) RAINFALL OR SNOWFALL.
- 5. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE BEEN CONCLUDED. AREAS THAT HAVE STEEP SLOPES OR WILL NOT RECIEVE PERMANENT LANDSCAPING SHALL BE TEMPORARILY SEEDED. ALL FLATTER AREAS OR AREAS WHERE NO FURTHER WORK IS TO OCCUR FOR ONE MONTH OR MORE SHALL BE SEEDED AND EXCELSIOR BLANKET WITHIN SEVEN (7) CALENDAR DAYS.

SCALE: 1"= 20"



	DESIGNED - MJY				EROSION CONTI	OL DIAN	F.A.P.	SECTION	COUNTY	TOTAL SHEET
	DRAWN - ST, TSC	REVISED -	STATE OF ILLINOIS				338	108 B-1	LAKE	3HEE IS NO.
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY, SLV	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 59 OVER FLINT	CREEK IKIBUTARY	330	0-91-289-09	CONTRAC	T NO. 60F92
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 03/26/2010	REVISED -		SCALE: 1" = 20"	SHEET NO. 1 OF 1 SHEETS	STA. 98+00 TO STA. 101+60	FED. ROAD D	DIST. NO. ILLINOIS FED. AI	D PROJECT	7 1102 001 32



Benchmark:

Benchmark #1 - cut "□" in south end of west bridge curb.

Assumed elevation = 100.00'

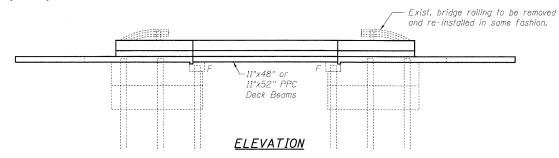
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

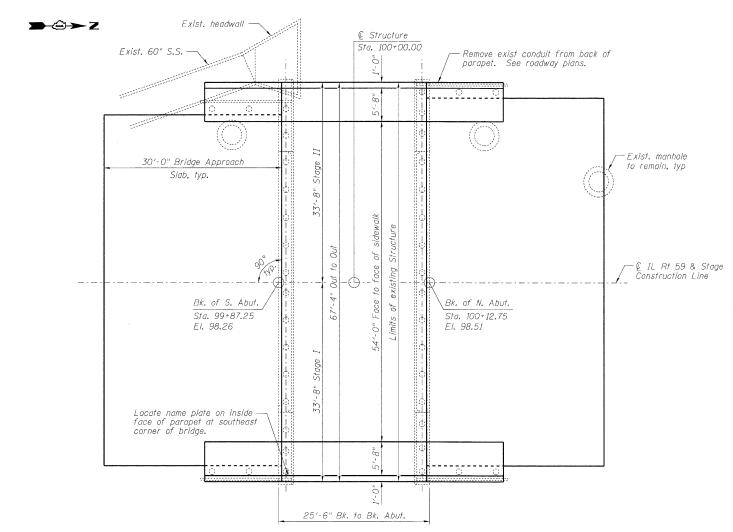
Existing Structure: S.N. 049-0152 built in 1921 and completely replaced in 1977 as a single span 11"x52" PPC Deck Beam bridge with 2" bituminous wearing surface on closed abutments consisting of a concrete cap on concrete piles with concrete planks. The bridge was widened in 1990 using 11"x48" PPC Deck Beams. The structure measures 25'-6" back to back abutments and 67'-4" out to out. Traffic is to be maintained utilizing stage construction. One

lane for each direction is to be provided.

Salvage:

Steel Bridge Railing





PLAN

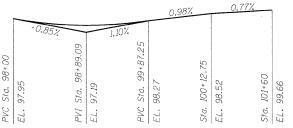
DESIGNED -SLV CHECKED -DJB DRAWN CHECKED -DJB

CONSULTING ENGINEERS 1560 WALL ST. SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

STATION 100+00.00 REBUILT 20_ _ BY STATE OF ILLINOIS F.A.P. ROUTE 338 SEC 108 B-1 LOADING HL-93 STRUCTURE NO. 049-0152

NAME PLATE

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



PROFILE GRADE

LOADING HL-93

Allow 50 psf for future wearing surface

DESIGN SPECIFICATIONS

2007 AASHTO LRFD 4th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi

f'c = 5000 psi (Concrete Wearing Surface)

fy = 60000 psi (Reinforcement)

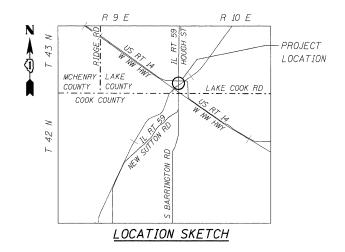
PRECAST PRESTRESSED UNITS

f'c = 6000 psi

f'ci = 5000 psi f's = 270,000 psi (1/2" \(\phi \) low lax. strands) f'si = 201,900 psi (1/2" \(\phi \) low lax. strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A Bedrock acceleration coefficient (A) = .04 Site Coefficient (S) = 1.2



APPROVED FOR STRUCTURAL ADEQUACY ONLY





GENERAL PLAN AND ELEVATION IL RT 59 OVER FLINT CREEK F.A.P RT. 338 SECTION 108 B-1 LAKE COUNTY STA. 100+00.00 STRUCTURE NO. 049-0152

	SHEET		F.A.P. RTE.	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	JIILLI	110. 31	338	108	B-1		LAKE	40	13
	OF S17	SHEETS		D-91-289-0	9		CONTRACT	NO. 60	F92
1			FED. RO	DAD DIST. NO	ILLINOIS FED.	. AII	D PROJECT.		

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60. See Special Provisions.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated conditon with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Reinforcement Bars designated (E) shall be epoxy coated.

Slip forming of the parapets is not allowed.

The minimum thickness of the concrete overlay shall be 5" and varies as required to adjust for the new profile grade and camber.

Repair of the substructure shall be completed prior to placement of the new deck beams.

No in-stream work will be allowed on this project.

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

If the Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the existing or new deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Superstructures.

1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

INDEX OF SHEETS

- S1. General Plan and Elevation
- S2. General Data & Bill of Material
- S3. Stage Construction Details
- S4. Temporary Concrete Barrier Details
- 55. Top of North Approach Slab Elevations
- S6. Top of South Approach Slab Elevations S7. Superstructure
- S8, Superstructure Details
- S9. Sidewalk Details
- S10. Railing Details
- S11. Bridge Approach Slab Details 1 of 2
- S12. Bridge Approach Slab Details 2 of 2 S13. 11"x52" PPC Deck Beams
- S14. 17"x48" PPC Deck Beams
- S15. North Abutment Details
- S16. South Abutment Details
- S17. Bar Splicer Assembly Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	APPR. SLAB	TOTAL
Approach Slab Removal	Sq. Yd.		***************************************	249	249
Removal of Existing Superstructures	Each	1			1
Concrete Removal	Cu. Yd.	12.0			12.0
Concrete Structures	Cu. Yd.			37.4	37.4
Concrete Superstructure	Cu. Yd.	8.1		180.2	188.3
Bridge Deck Grooving	Sq. Yd.	184			184
Protective Coat	Sq. Yd.	232		456	688
Precast Prestressed Concrete Deck Beams (11" Depth)	Sq. ft.	1650			1650
Reinforcement Bars, Epoxy Coated	Pound	4810		45580	50390
Bar Splicers	Each	25		222	247
Removing and Re-Erecting Existing Railing	Foot	97			97
Name Plates	Each	1			1
Epoxy Crack Injection	Foot		6		6
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)	Sq. Ft.		8		8
Concrete Wearing Surface, 5"	Sg. Yd.	184			184
					<u> </u>

DESIGNED - SLY CHECKED - DJB DRAWN - SLY CONSULTING ENGINEERS

CHECKED - DJB

GENERAL DATA & BILL OF MATERIAL

STRUCTURE NO. 049-0152

F.A.P. SECTION COUNTY TOTAL SHEET NO. SHEETS NO.

SHEET NO. S2 RTE.

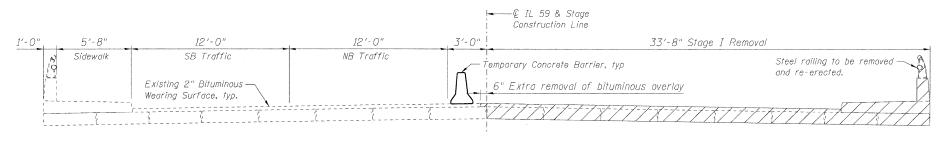
338

OF S17 SHEETS

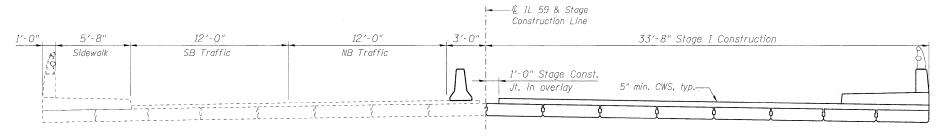
338 108 B-1 LAKE 40 14

D-91-289-09 CONTRACT NO. 60F92

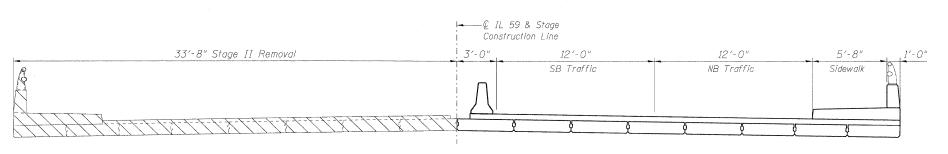
FED. ROAD DIST. NO. _ | ILLINOIS FED. AID PROJECT



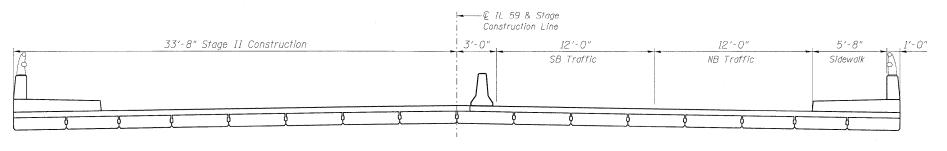
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

NOTES

All Cross Sections looking North.

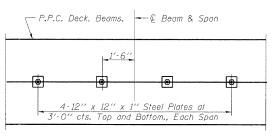
Hatched area indicates Removal of Existing Superstructures.

Cost of removing exisiting bituminous wearing surface, parapet, and sidewalk are included with Removal of Existing

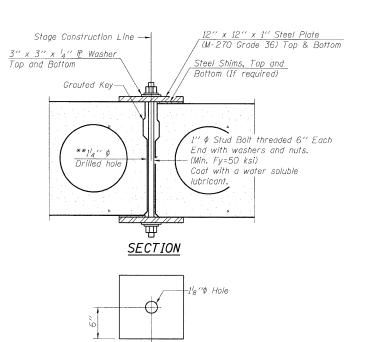
Superstructures.

For quantity of Temporary Concrete Barrier see Boadway Plans

For quantity of Temporary Concrete Barrier see Roadway Plans. For Temporary Concrete Barrier details see Sheet S4 of S17.



<u>PLAN</u>



CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams.

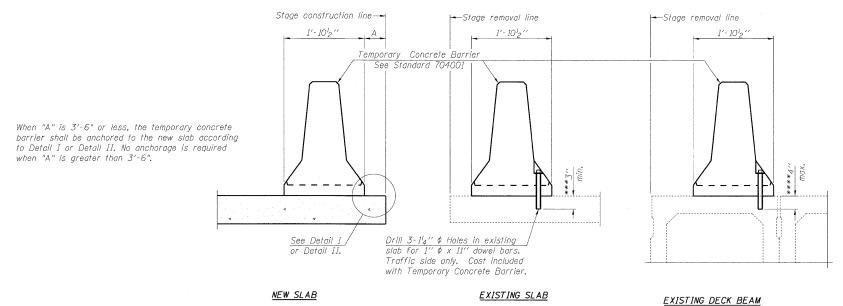
** As an alternate to the drilled holes, the Contractor may request the Fabricator to cast 2" diameter semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts. If the Contractor elects to use this alternate, the details shall be identified on the shop drawings.

STAGE CONSTRUCTION DETAILS STRUCTURE NO. 049-0152

			3.700		0.02	:
SHEET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
507 1 km km 1		338	108 B-1	LAKE	40	15
OF S17	SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
		FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

DESIGNED -	SLV
CHECKED -	DJB
DRAWN	SLV
CHECKED -	DJB

CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100



NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (I) I''x7''x10'' steel ₧ to the
top layer of couplers with 2-5₈'' \$\phi\$ balts
screwed to coupler at approximate \$\mathbb{\epsilon}\$ of
each barrier panel.

Detail II - With Extended Reinforcement Bars:

Connect one (1) 1'x7''x 10'' steel £ to the concrete slab or concrete wearing surface with 2-5g'' \$\phi\$

Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate £ of each barrier panel.

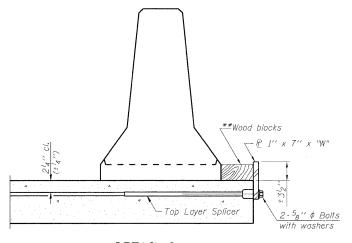
Cost of anchorage is included with Temporary Concrete Barrier.
The I'' x 7'' x 10'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

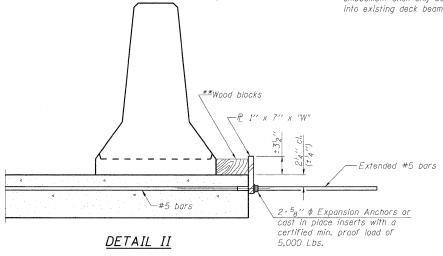
*** Dimension shown is minimum required embedment into concrete.

If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

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

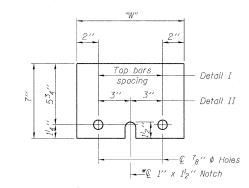


DETAIL I



** 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 P 1" x 7" x 10"

* Required only with Detail II

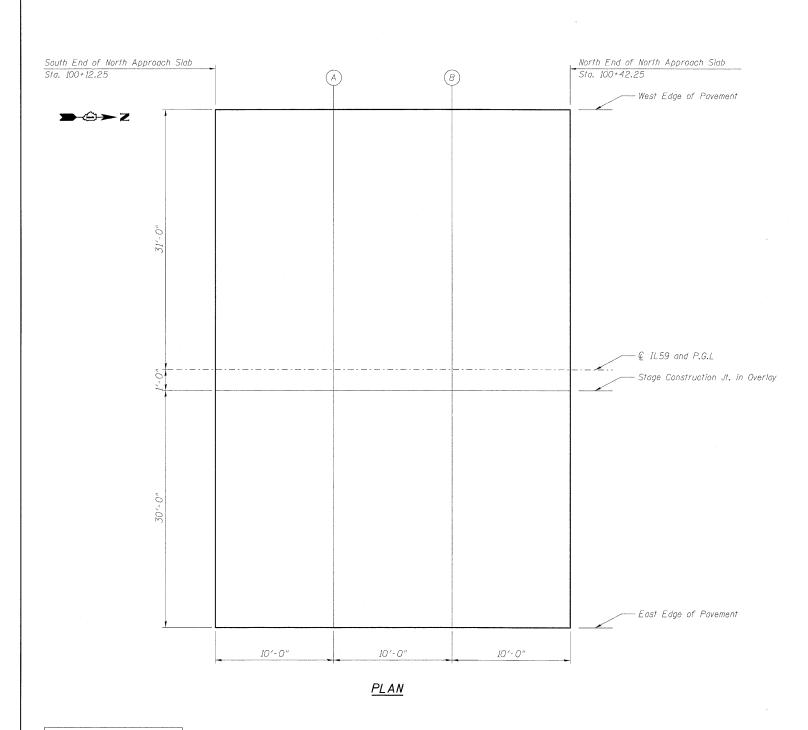
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 049-0152

	SHEET	NO. S4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	01,22	.,,,,,	338	108 B-1	LAKE	40	16
-	OF S17	SHEETS		D-91-289-09	CONTRACT	NO. 60)F92
- Commence			FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

DESIGNED	-	SLV
CHECKED		DJB
DRAWN		SLV
CHECKED	-	DJB
R-27		i

CONSULTING ENGINEERS
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NAPERVILLE, ILLINOIS 60563 PH: 630) 577-9100

11-1-09



West Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr Slab	100+12.25	- 31.00′	98.02
А	100+22.25	- 31.00′	98.11
В	100+32.25	- 31.00′	98.19
N. End N. Appr Slab	100+42.25	- 31.00′	98.26

<u>€ IL 59 & P.G.L.</u>

Locafian	Station	Offset	Theoretical Grade Elevations
S. End N. Appr Slab	100+12,25	0.00′	98.51
Α	100+22.25	0.00′	98.60
В	100+32.25	0.00′	98.67
N. End N. Appr Slab	100+42.25	0.00′	98.75

Stage Construction Joint in Overlay

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr Slab	100+12.25	1,00′	98.49
А	100+22.25	1.00′	98.58
В	100+32.25	1.00′	98.66
N. End N. Appr Slab	100+42.25	1.00′	98.73

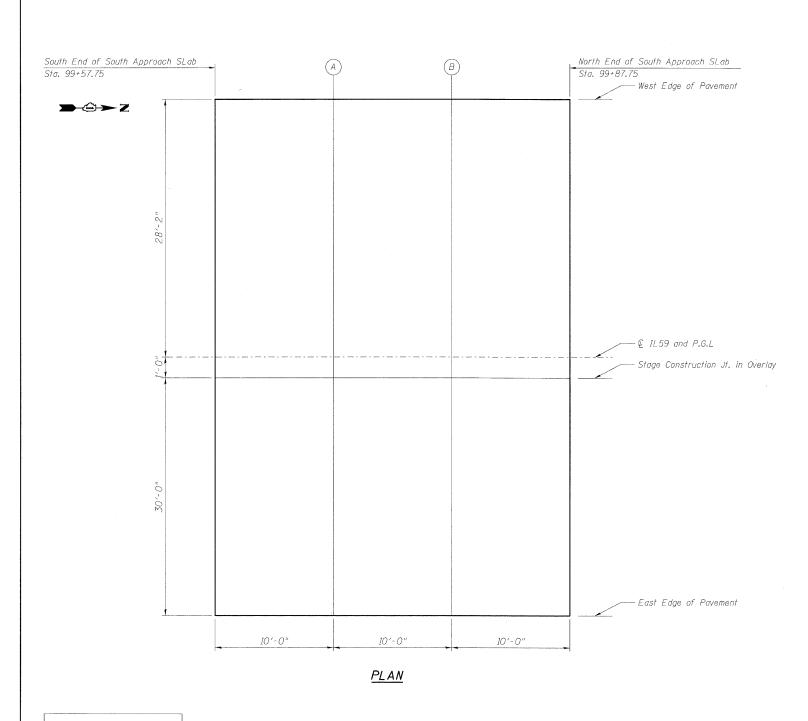
East Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr Slab	100+12.25	31.00′	98.02
Α	100+22.25	31.00′	98.11
В	100+32.25	31.00′	98.19
N. End N. Appr Slab	100+42.25	31.00′	98.26

TOP OF NORTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 049-0152

<u> </u>	HEET	NO. S5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		110.00	338	108 B-1	LAKE	40	17
OF	S17	SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
			FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

DESIGNED -	SLV	
CHECKED -	DJB	
DRAWN -	SLV	CONSULTING ENGINEERS
CHECKED -	DJB	1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-910



West Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr Slab	99+57.75	-28.17′	97.55
A	99+67.75	-28.17′	97.64
В	99+77,75	-28,17′	97.73
N. End S. Appr Slab	99+87.75	- 28.17′	97.83

<u>€ IL 59 & P.G.L.</u>

Location	Station	Offset	Theoretical Grade Elevations	
S, End S, Appr Slab	99+57.75	0.00′	97.99	
А	99+67.75	0.00′	98.08	
В	99+77.75	0.00′	98.17	
N. End S. Appr Slab	99+87.75	0.00′	98.27	

Stage Construction Joint in Overlay

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr Slab	99+57.75	1.00′	97.98
А	99+67.75	1.00′	98.06
В	99+77.75	1.00′	98.15
N. End S. Appr Slab	99+87.75	1.00′	98.25

East Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr Slab	99+57.75	31.00′	97.51
А	99+67.75	31,00′	97.60
В	99+77.75	31.00′	97,69 .
N. End S. Appr Slab	99+87.75	31.00′	97,78

TOP OF SOUTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 049-0152

SHEET	NO. S6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	311221 140. 36		338	108 B-1	LAKE	40	18
	OF S17	SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
			FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

DESIGNED - SLV

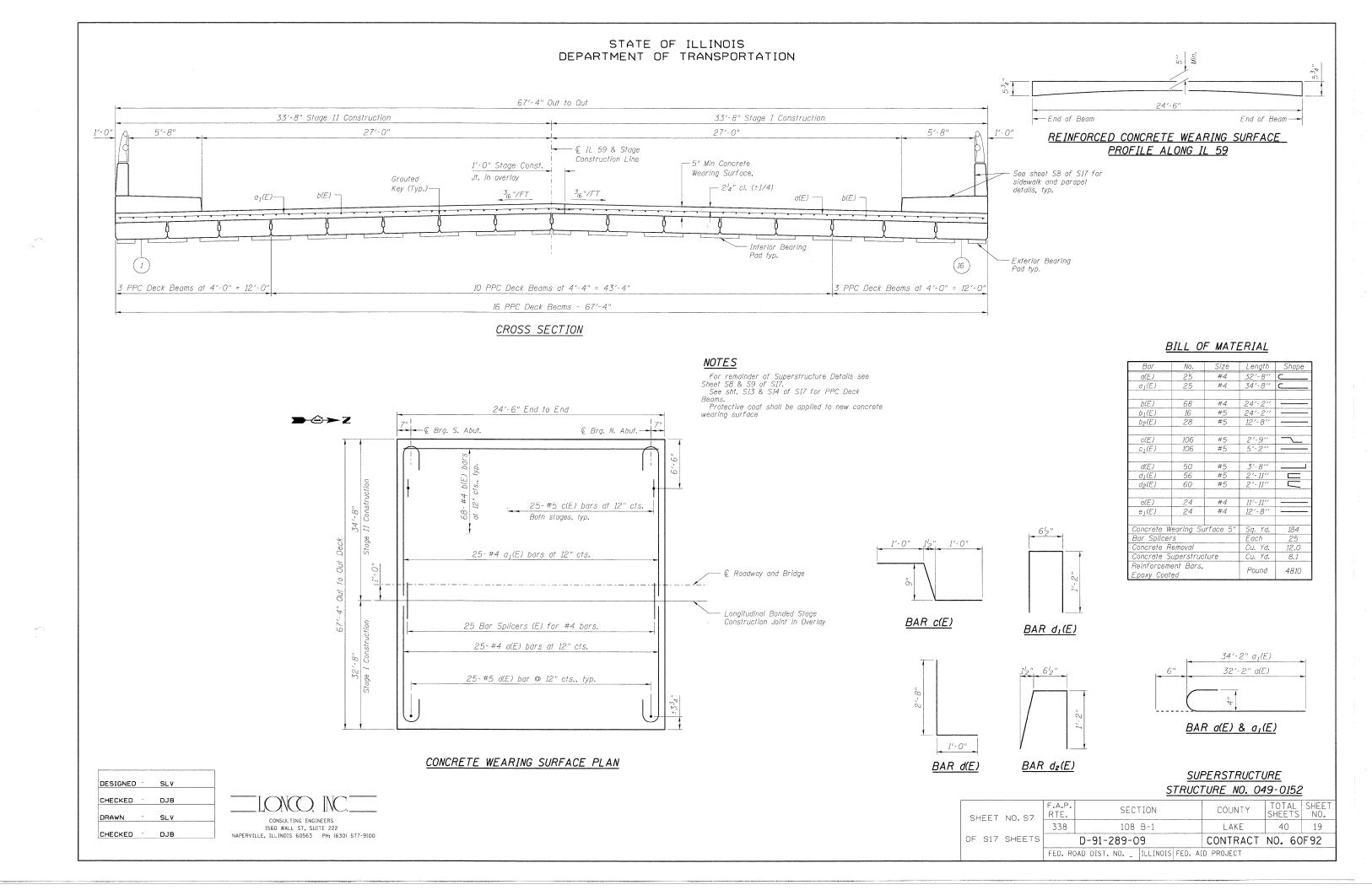
CHECKED - DJB

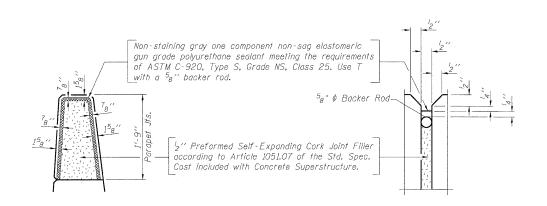
DRAWN - SLV

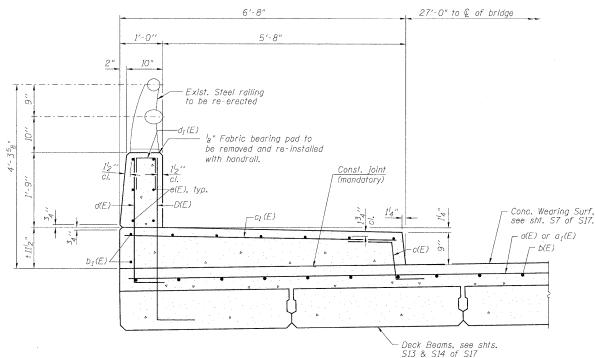
CHECKED - DJB

CONSULTING ENGINEERS

CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100





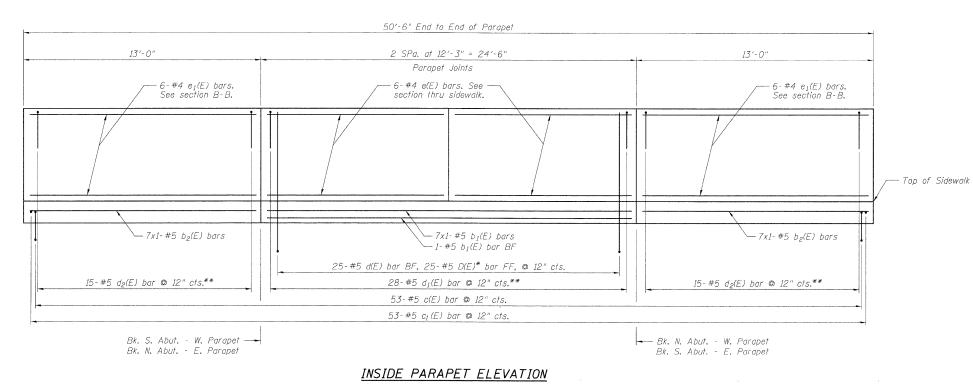


PARAPET JOINT DETAILS

NOTES

See sht. S9 of S17 for Sect B-B and Sidewalk & Parapet Plan. See sht. S7 of S17 for Bill of Material. Protective coat shall be applie to top and front face of parapet along with sidewalk.

SECTION THRU SIDEWALK



Fabric bearing pad, both ends, typ. 1-9" x 1" x 2"-7" (48" beams) 1-9" x 1" x 2"-3" (52" beams) 1" x 2½" PJF Full width, typ. 1" ∮ x 2'-0" Dowel rods in $1_2^{\prime\prime}$ ϕ holes drilled in cap (2 each beam)

SECTION THRU FIXED ABUTMENT

14" x 34" Formed joint with

concrete joint sealer without

Approach

slab

the backer rod (full width)

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends. See sheet S13 & S14 of S17 for 52" and 48" beam bearing

Bars indicated thus 7x1-#5, etc, indicates 7 lines of bars with 1 length per line.

- * D(E) bars cast in place in each outside beam See sht S14 of S17 for details. ** Place two d₁(E) or d₂(E) bars under each rail post (included in total bars).

SUPERSTRUCTURE DETAILS STRUCTURE NO. 049-0152

SHEET		IFFT	NO. 58	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			.,	338	108 B-1	LAKE	40	20
)F	S17	SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
				FED. RO	DAD DIST. NO ILLINOIS FED. A	D PROJECT		

Concrete Wearing Surface
/ See sheet S7 of S17.

DESIGNED -SLV

CHECKED DJB DRAWN SLV CHECKED DJB



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION 27'-0" to @ of rdwy. 5′-8" 10" Remove exist. parapet from cap $-d_{2}(E)$ - Save existing reinf. bars for reuse. Cost shall be included Const. joint in concrete removal. (mandatory) Remove top 4" of 3₄" chamfer -c1(E) exist, conc. cap Remove exist, sidewalk Remove exist. Appr. Slab Exist. reinf. to -½" fiberboard Appr. Slab be reused. Exist. conc. cap on timber piles to remain. EXISTING **PROPOSED** Remove exist, parapet from slab Save existing reinf. bars for SECT B-B 14" x 34" Formed joint with concrete joint sealer without the backer rod (full length) in concrete removal. (Northwest, Northeast, & Southeast corners) Thickened concrete sidewalk -1-#5 b₃(E) each corner over approach slab -Varies from

reuse. Cost shall be included Remove top 4" of exist. conc. cap and slab. Exist. conc. cap & slab on timber Remove exist.Appr. piles to remain. Slab & conc. curb 3'-3"

EXISTING

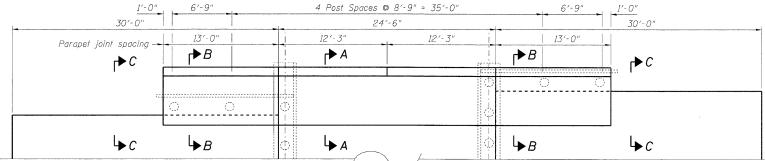
→②→ Z

1'-6"

4'-4"

NW, NE, & SE corners

SW corner



Appr. Slab

- #5 d₃(E) @ 12" cts.

DESIGNED - SLV CHECKED -DJB DRAWN CHECKED -

CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

SECT C-C

SIDEWALK & PARAPET PLAN

(West side shown, East side similar)

NOTES

Exist. reinforcement shall be cleaned, straightened (if required) and incorporated into the new construction. Cost included with Concrete Removal.

Existing reinforcement bars which have lost 25% or more of their original diameter shall be supplemented by new epoxy coated bars of the same diameter. New bars shall be drilled and epoxy grouted in place adjacent to the original bars, as directed by the Engineer.

Drilling and epoxy grouting of reinforcement bars shall be in accordance with Article 584 of the Standard Specifications.

See sht. S8 of S17 for Section thru Sidewalk (Sect A-A), Parapet Joint Details,

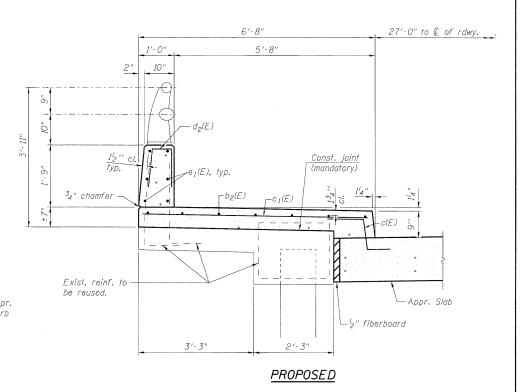
and Inside Parapet Elevation.

See sht. S7 of S17 for Bill of Material.

Fiberboard shall be included in Approach Slab, which shall be paid for as Concrete

See sht. S10 of S17 for Railing Details.

See sht. S11 & S12 of S17 for Approach Slab Plan & Details.

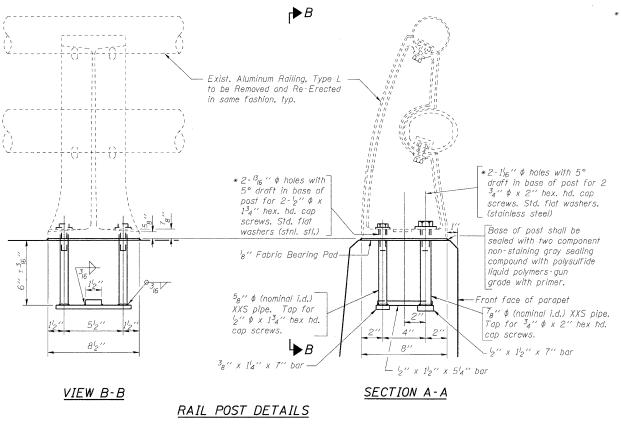


SECT B-B

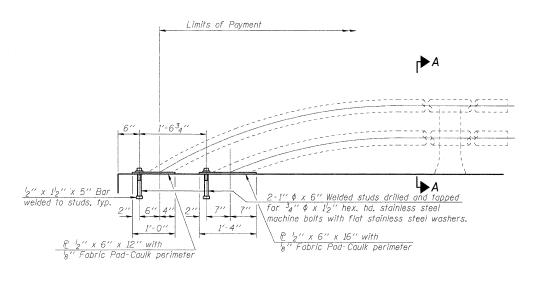
(Southwest corner)

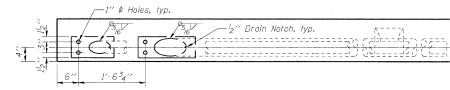
SIDEWALK DETAILS STRUCTURE NO. 049-0152

				31710	OT OTTE TOOL O	75 0102	-
SHEET	NO. S9	F.A.P. RTE.	SEC ⁻	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHEET NO.
		338	108	B-1	LAKE	40	21
OF S17	SHEETS		D-91-289-0	9	CONTRACT	NO. 60)F92
		FED. RO	DAD DIST, NO	ILLINOIS FED.	AID PROJECT		



* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.





RAIL TERMINAL SECTION

BILL OF MATERIAL

Item	Unit	Quantity
Removing and Re-Erecting Existing Railing	Foot	97

DESIGNED - SLV

CHECKED - DJB

DRAWN - SLV

CHECKED - DJB

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NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

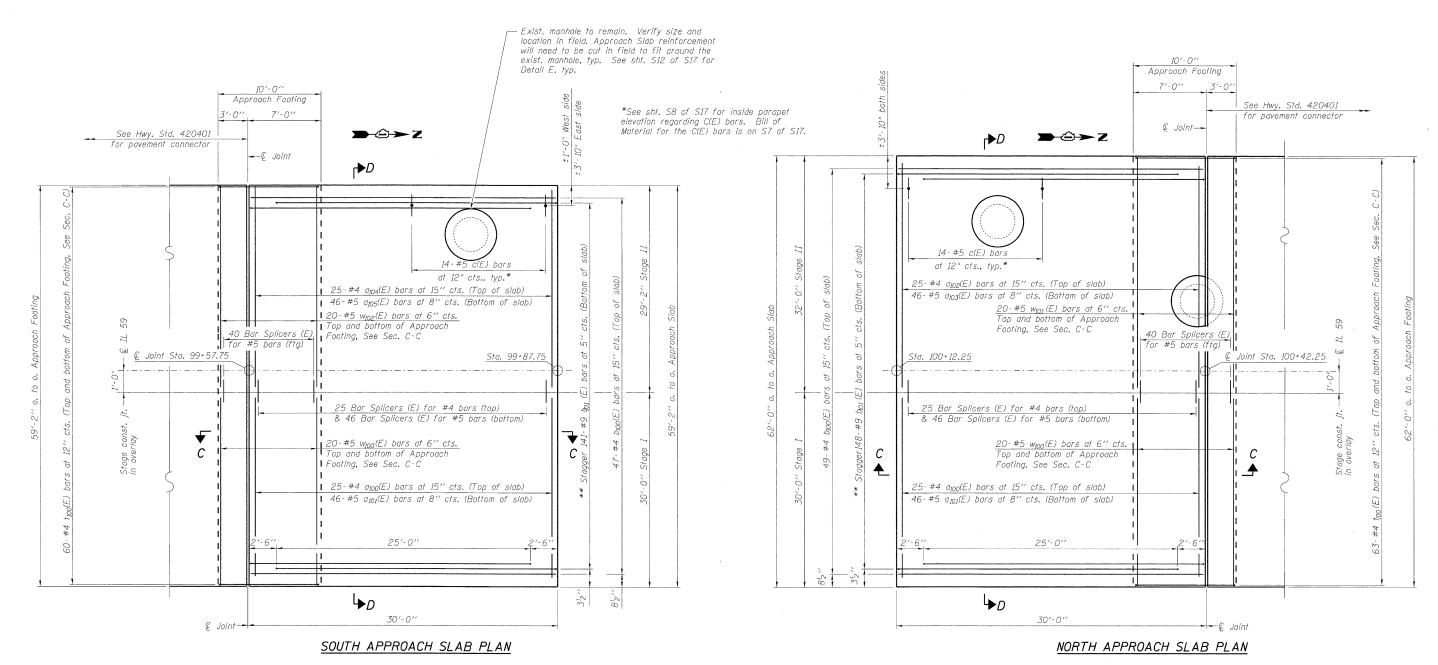
RAILING DETAILS
STRUCTURE NO. 049-0152

					•
SHEET NO. S10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3,422, 113, 313	338	108 B-1	LAKE	40	22
OF S17 SHEETS		D-91-289-09	CONTRACT	NO. 60)F92
	FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

NOTES Sections C-C & D-D, and Bill of Material.

All a(E) and w(E) bar spacings measured parallel to © Rdwy.

Protective coat to be applied to top of approac slab.



** Tilt #9 $b_{\rm IOI}(E)$ bars as required to maintain clearance.

HMA
Pavement

End of
Appr. slab

FLEXIBLE PAVEMENT

DETAIL A

(Sheet 1 of 2)

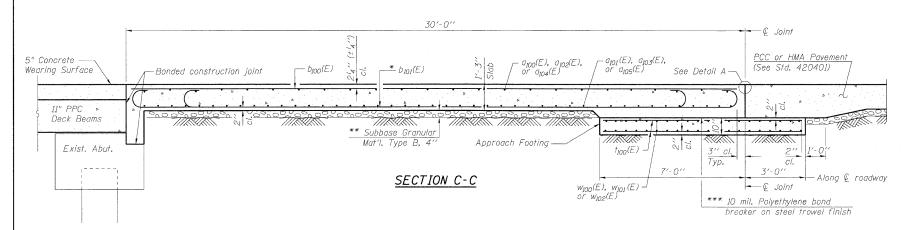
<u>BRIDGE APPROACH SLAB DETAILS</u>

STRUCTURE NO. 049-0152

							•
SHEET	NO. S11	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OTTLE!	1401 311	338	108 B-1		LAKE	40	23
OF S17	SHEETS		D-91-289-09	CC	ONTRACT	NO. 60	F92
		FED. RO	DAD DIST. NO ILLINOIS FED	D. AID P	ROJECT		

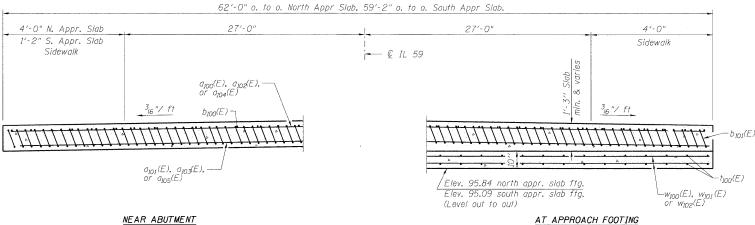
DESIGNED	-	SLY
CHECKED	-	DJB
DRAWN	-	SLY
CHECKED	_	DJB

CONSULTING ENGINEERS
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NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100



See sheet S11 of S17 for Plan Views and Detail. Approach slab shall be paid for as Concrete Superstructure. Approach footing concrete shall be paid for as Concrete Structures. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. For bar splicer details, see sheet S17 of S17.

Cost of excavation for approach footing included with Concrete Structures.



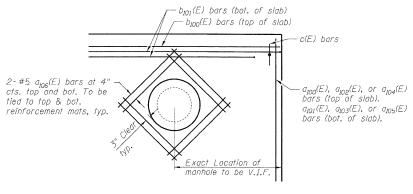
* Tilt #9 $b_{101}(E)$ bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

NEAR ABUTMENT

SECTION D-D

(See Plan for dimensions not shown)



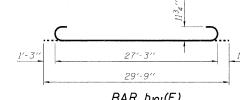
<u>DETAIL E</u> PARTIAL PLAN FOR MANHOLE REINFORCEMENT

DESIGNED	-	SLV	
CHECKED		DJB	
DRAWN	-	SLY	•
CHECKED	-	DJB	

CONSULTING ENGINEERS 1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁₀₀ (E)	50	#4	29'-6"	
0101(E)	92	#5	29'-6"	
0102(E)	25	#4	31'-6''	
a103(E)	46	#5	31'-6''	
0104(E)	25	#4	28'-8''	
0105(E)	46	#5	28'-8''	
a106(E)	48	#5	4'-0''	
b ₁₀₀ (E.)	96	#4	29'-8''	
b ₁₀₁ (E)	289	#9	29'-9''	حــــــــ
t100(E)	246	#4	9′-6″	
w100(E)	80	#5	29'-6''	
W101 (E)	40	#5	31'-6''	
w ₁₀₂ (E)	40	#5	28'-8"	
Concrete	Superstru	Joture	Cu. Yd.	180.2
Concrete	Structure	:5	Cu. Yd.	37.4
Reinforce Epoxy Co	ment Bar. ated	5,	Pound	45580
Bar Splic			Each	222

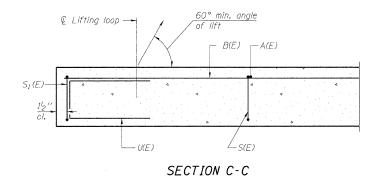


BAR bioi(E)

(Sheet 2 of 2)

BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 049-0152

SHEET NO. S12	F.A.P. RTE.	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
31121 110. 312	338	338 108 B-1		LAKE	40	24		
OF S17 SHEETS		D-91-289-09			CONTRACT	NO. 60	F92	
	FED. RO	DAD DIST. NO	ILLINOIS	FED. AI	D PROJECT			



13-#4 S(E) bars at 9" cts.

7-#4 A(E) bars at 1'-6" cts., Top

 \land

 $\downarrow A$

5 pairs of #4 S₁(E) bars

 $\overline{}$

-0-0

24'-6" End to end beam

€ 2" ¢ Holes for dowel

rods at fixed ends only

1'-3''

© Lifting loops

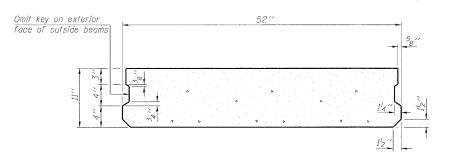
Field verify for fit on exist. substructure

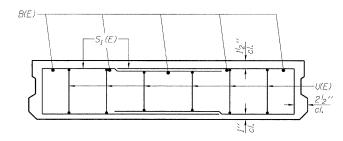
Ф

r▶B

С

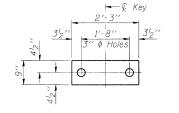
3 spaces at 6"

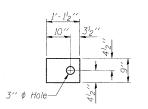




VIEW B-B

SECTION A-A





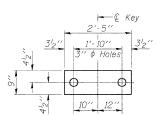
FABRIC BEARING PAD (Interior)

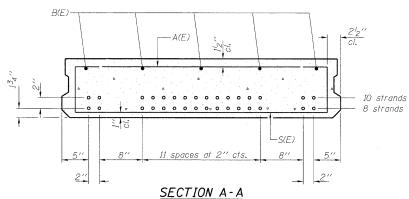
FABRIC BEARING PAD

(Exterior)

. FIXED

All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



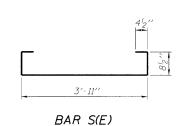


(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

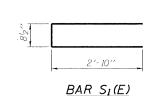
FABRIC BEARING PAD

(Where beams change from 52" to 48")



_Symmetrical about €

except as noted





-1'4" \$ Conduit

-3" Radius

Top of Beam

3-'2" \$\phi\$
270 ksi strands

BAR LIST ONE BEAM ONLY (For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-11''	
B(E)	5	#5	24'-2"	
S(E)	26	#4	6'-1"	ப
S ₁ (E)	20	#4	6'-5"	
U(E)	12	#4	3'-2"	

LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed	Ca	F†	1062
Conc. Deck Bms. (11" depth)	34.	TT.	1002

<u>NOTES</u>

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand. Grade 270. The nominal diameter shall be $\frac{1}{2}$ ' and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). Two $\frac{1}{8}$ ' fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum $2\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used

in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

See sheet S14 of S17 for 11"x48" PPC Deck Beams.

DESIGNED - SLV CHECKED - DJB DRAWN - SLV

CHECKED -

CONSULTING ENGINEERS

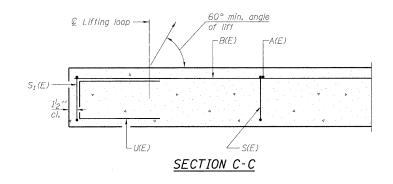
1560 WALL ST, SUITE 222

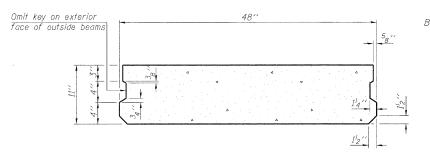
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

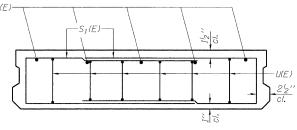
PLAN VIEW

11" x 52" PPC DECK BEAMS
STRUCTURE NO. 049-0152

		_				
SHEET NO. S13	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
3,122, 1,01010	338	108 B-1		LAKE	40	25
OF S17 SHEETS		D-91-289-09 C			NO. 60	F92
	FED. RO	DAD DIST. NO ILLINOIS	FED. A	ID PROJECT		



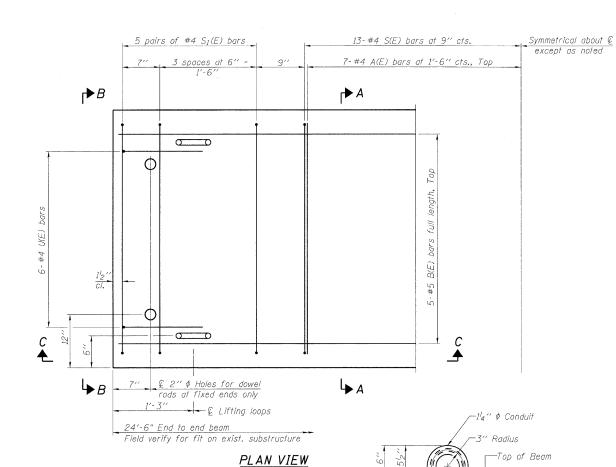


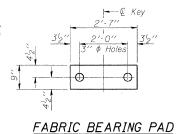


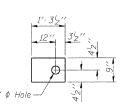
SECTION A-A

(Showing dimensions.

VIEW B-B



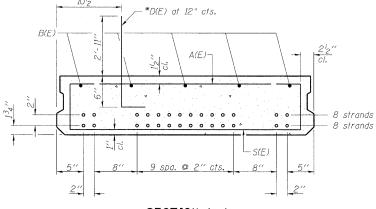






FIXED

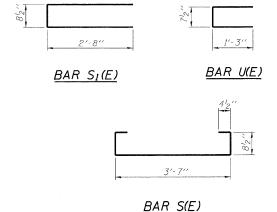
Notes: All bearing pads shall be 1" thick. Omit holes when using expansion bearings. Expansion bearing pad shall be bonded to the substructure.

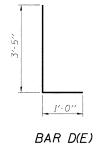


SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.







Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-7''	
B(E)	5	#5	24'-2"	
*D(E)	25	#5	4'-5"	
S(E)	26	#4	5′-9′′	
$S_I(E)$	20	#4	6'-1''	
U(E)	12	#4	3'-2"	

*D(E) bar to be cast into outside beams only. See sht. S8 of S17 for details.

BILL OF MATERIAL

Precast Prestressed	Ca	F+	E00
Conc. Deck Bms, (11" depth)	34.	Γ1.	300

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). Two $^{l}_{8}$ $^{\prime\prime}$ fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided

for each bearing pad location.

A minimum 2½" \$\phi\$ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi. See sheet S13 of S17 for 11"x52" PPC Deck Beams.

DESIGNED -	SLV
CHECKED -	DJB
DRAWN -	SLV
CHECKED -	DJB

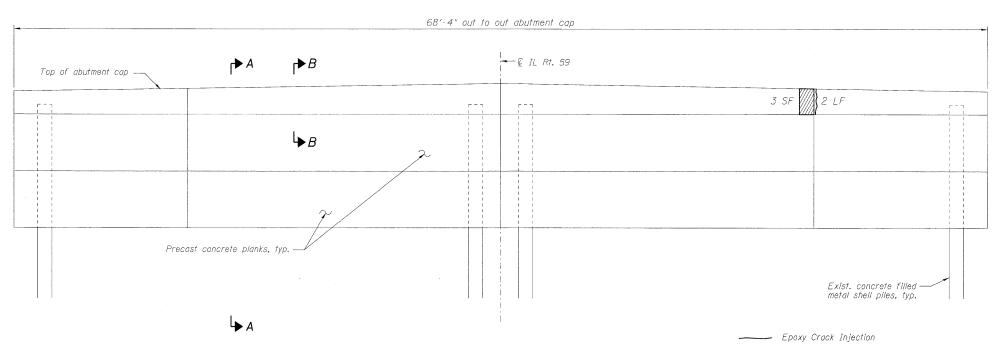


LIFTING LOOP DETAIL

11" x 48" PPC DECK BEAMS STRUCTURE NO. 049-0152

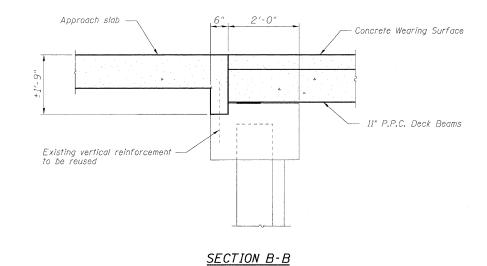
SHEET OF S17

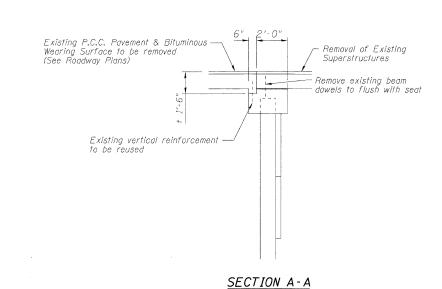
						-
Т	NO. S14	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		338	108 B-1	LAKE	40	26
7	SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
		FED. RO	DAD DIST. NO ILLINOIS FED.	AID PROJECT		



ELEVATION - REMOVAL AND REPAIR (Looking North)

Formed Concrete Repair Depth < 5"





	. 4	BII	LL	0F	MA	ΤE	RIA	i,
--	-----	-----	----	----	----	----	-----	----

Epoxy Crack Injection	Foot	2
Structural Repair of Concrete	Sq. Ft.	3
(Depth less than equal to 5")		

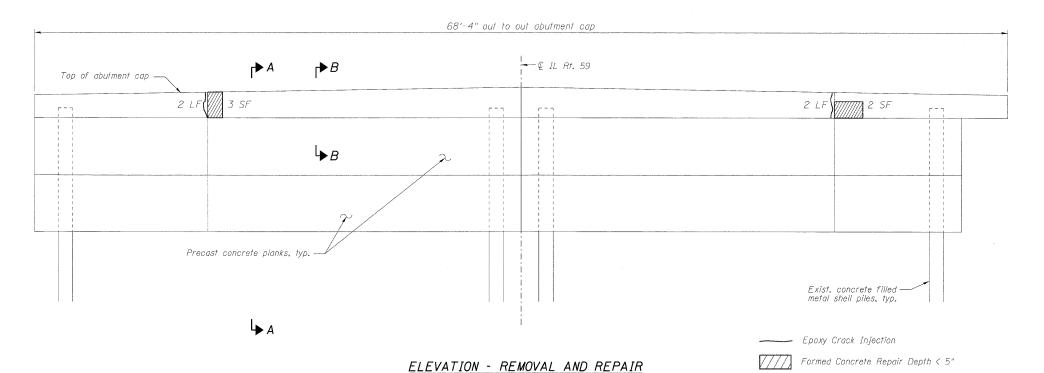
<u>NOTES</u>

Drilling and epoxy grouting of reinforcement bars shall be in accordance with Article 584 of the Standard Specifications and shall be paid for as Reinforcement Bars, Epoxy Coated

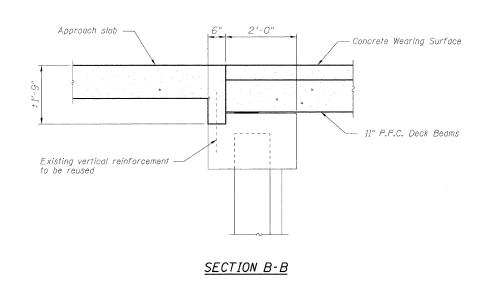
NORTH ABUTMENT DETAILS STRUCTURE NO. 049-0152

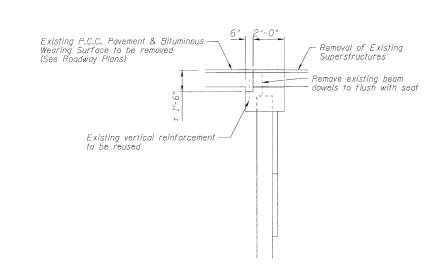
					•
SHEET NO. S15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0221 110.010	338 108 B-1		LAKE	40	27
OF S17 SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
	FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

DESIGNED - SLY	
CHECKED - DJB	
DRAWN - SLY	CONSULTING ENGINEERS
CHECKED DJB	1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100



(Looking North)





BILL OF MATERIAL

Epoxy Crack Injection	Foot	4
Structural Repair of Concrete (Depth less than equal to 5")	Sq. Ft.	5

<u>NOTES</u>

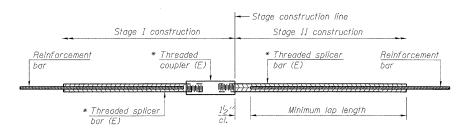
Drilling and epoxy grouting of reinforcement bars shall be in accordance with Article 584 of the Standard Specifications and shall be paid for as Reinforcement Bars, Epoxy Coated

SOUTH ABUTMENT DETAILS STRUCTURE NO. 049-0152

					•
SHEET NO. S16	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
011221 1401 010	338	108 B-1	LAKE	40	28
OF S17 SHEETS		D-91-289-09	CONTRACT	NO. 60	F92
	FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

DESTONED	JL Y	
CHECKED -	DJB	
DRAWN -	SLV	CONSULTING ENGINEERS
CHECKED -	DJB	1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

CONSULTING ENGINEERS 1560 WALL ST, SUITE 222
ADERVILLE ILLINOIS COSCI DIL (CZO) EZZ 0100



STANDARD BAR SPLICER ASSEMBLY

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

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

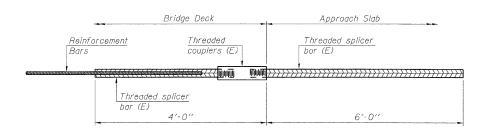
Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + $1_2^{\prime\prime}$ + thread length

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

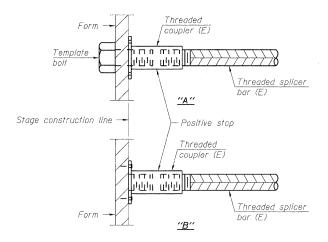
Location	Bar size	No. assemblies required	Table for minimum lap length
Concrete Wearing Surface	#4	25	Table 3
Top of Approach Slabs	#4	50	Table 3
Bottom of Approach Slabs	#5	92	Table 3
Approach Slab Foundations	#5	80	Table 3



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

No. required = N. A.

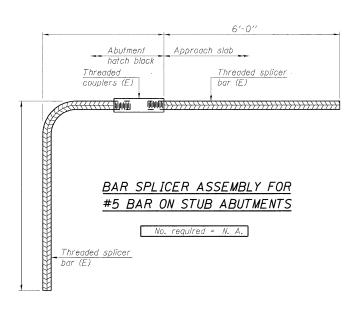
DESIGNED -	SLV	
CHECKED -	DJB	
DRAWN -	SLV	CONSULTING ENGINEERS
CHECKED -	DJB	1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100
RSD-1	1	11-1-09

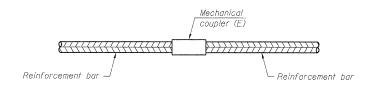


INSTALLATION AND SETTING METHODS

"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

e required

<u>NOTES</u>

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.

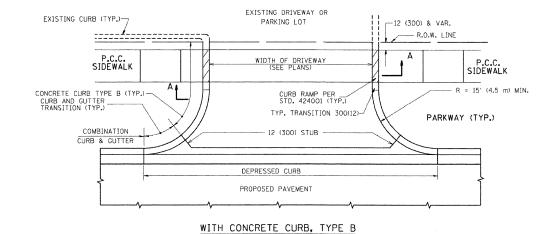
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

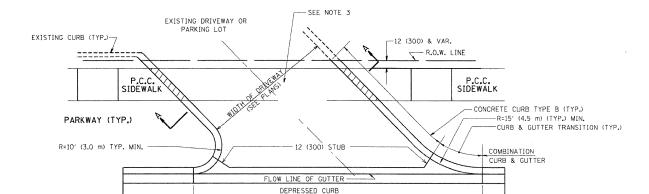
See special provision for Mechanical Splicers.

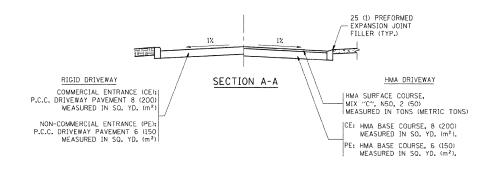
See approved list of bar splicer assemblies and mechanical splicers for alternatives

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 049-0152

		<u> </u>		<u> </u>	0.02	•
SHEET NO. S17	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OTTEET THOS OTT	338	108 B-1		LAKE	40	29
OF S17 SHEETS		D-91-289-09		CONTRACT	NO. 60)F92
	FED. RO	DAD DIST. NO ILLINOIS F	ED. AI	D PROJECT		





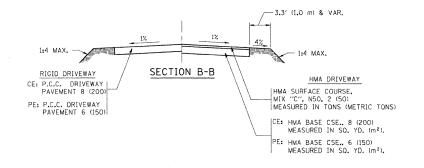


PAVEMENT

WITH CONCRETE CURB, TYPE B

REVISED - M. GOMEZ 04-06-01 REVISED - P. LOFLUER 04-15-03 REVISED - R. BORO 01-01-07 REVISED - R. BORO 06-11-08

P.C.C. / HMA COMBINATION SHOUL DER CURB AND GUTTER 15' (4.5 m) 15' (4.5 m) 15' (4.5 m) MIN. MIN. MIN. DEPRESSED CURB -EDGE OF PAVEMENT -EDGE OF PAVEMENT ADJACENT TO P.C.C. / HMA SHOULDER ADJACENT TO CURB AND GUTTER



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

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SO. 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 OUESTIONS 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.

(25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID EPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE

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.

SCALE: NONE

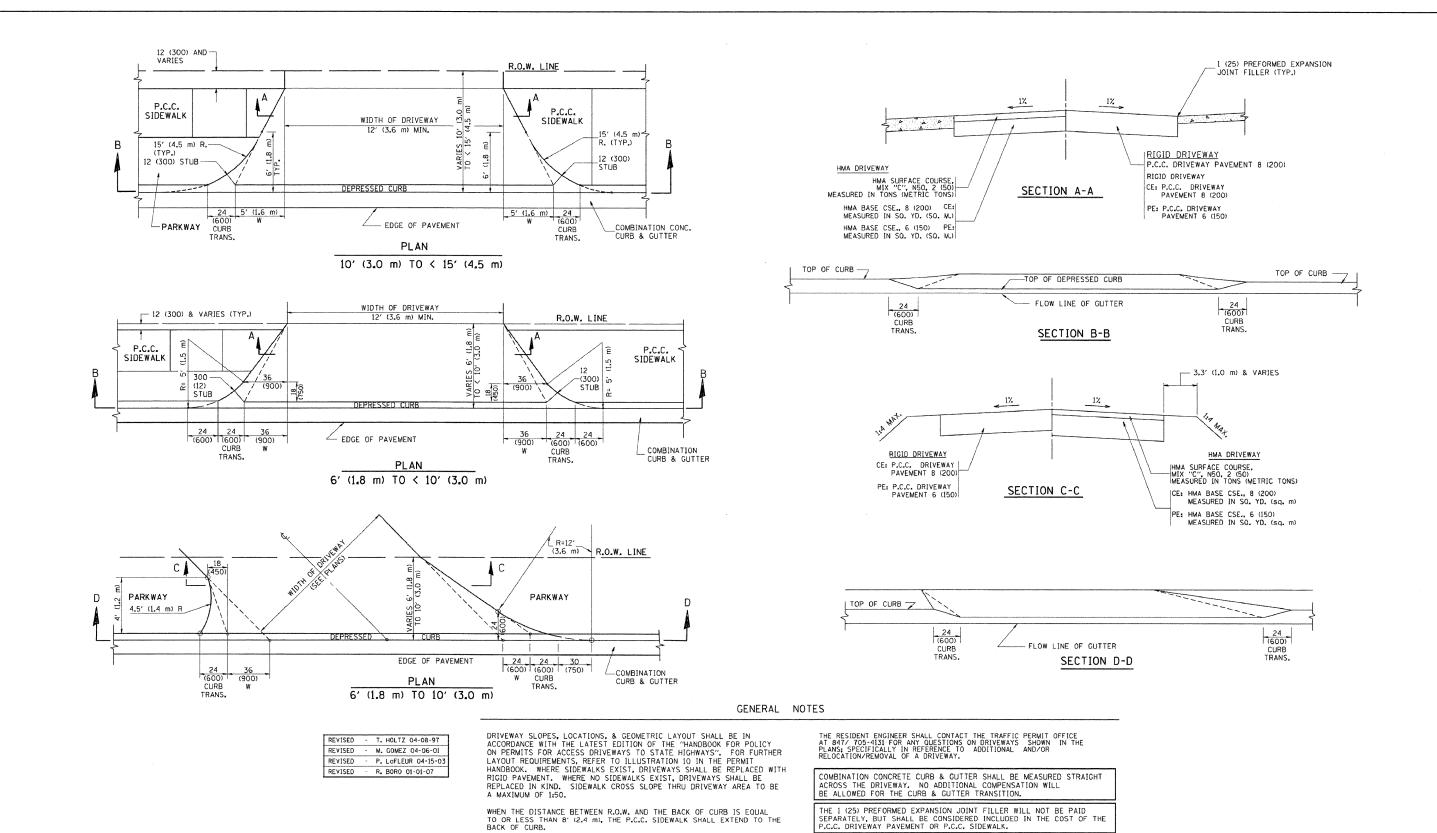
C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR **EDGE GREATER THAN OR EQUAL TO 15'**

	DESIGNED	- 1	YUN		Ī
	DRAWN	- 5	ST, TSC	REVISED -	l
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED	- N	MJY, SLV	REVISED -	l
NAPERVILLE, ILLINOIS 60563 PH: (630) 577~9100	DATE	- (03/26/2010	REVISED -	l

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT ONE DETA	AIL SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SH
ı	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY			108 B-1	LAKE	40	3
	E HOOTE 33 OVER TEHNT	JILLE TIIIDOTAIN		D-90-289-09	CONTRACT	NO. (SOF
	SHEET NO. 1 OF 11 SHEETS	STA. 98+00 TO STA. 101+60	FED. RO	OAD DIST. NO. ILLINOIS FED. A	ID PROJECT		



DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB IS LESS THAN 15'

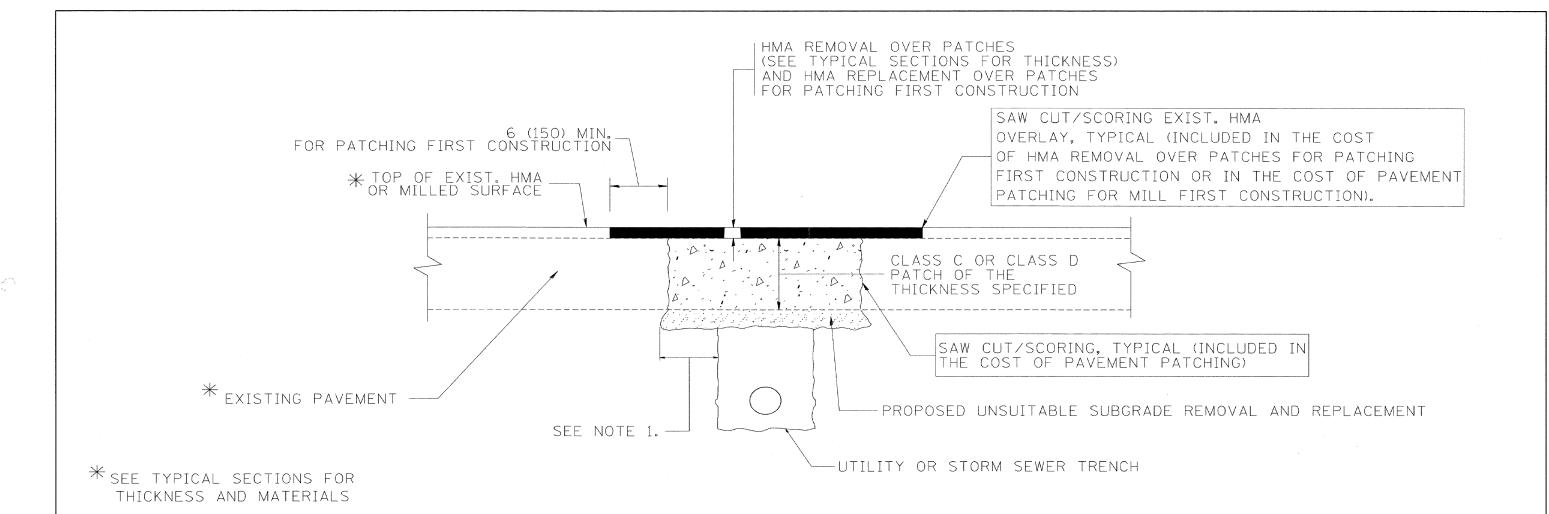
	DESIGNED	-	MJY		
	DRAWN	-	ST, TSC	REVISED	_
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED	-	MJY, SLV	REVISED	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE	-	03/26/2010	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DISTRICT ONE DET	AIL SHEETS	F.A.P RTE.	SECTIO
	IL ROUTE 59 OVER FLINT	CREEK TRIBUTARY	338	108 B
		ORECK THIDOTAIN		D-90-289-0
SCALE: NONE	SHEET NO. 2 OF 11 SHEETS	STA. 98+00 TO STA. 101+60	FED. ROAD	DIST. NO. II.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

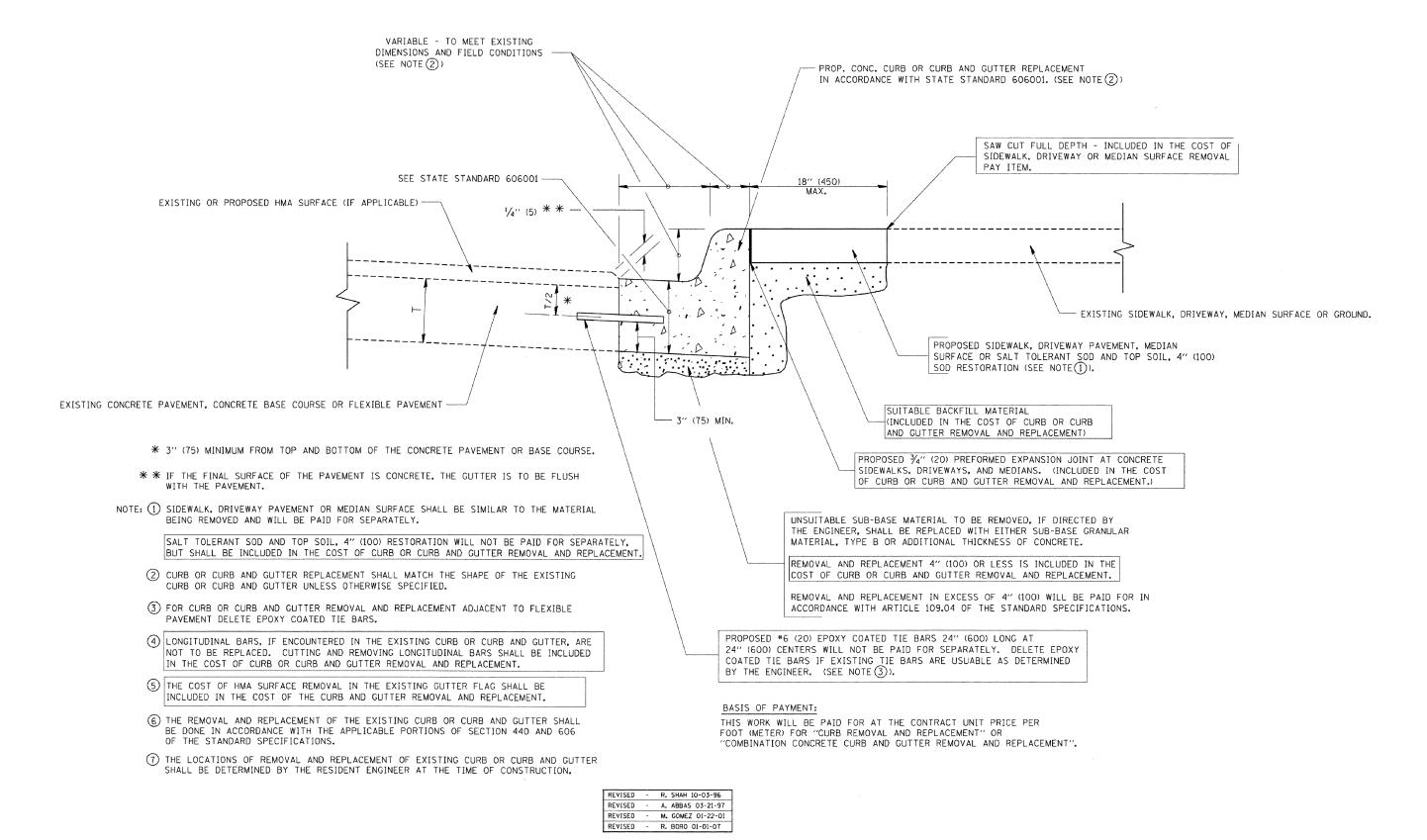
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

REVISED	-	A. ABBAS 04-27-98
REVISED	-	R. BORO 01-01-07
REVISED	-	R. BORO 09-04-07
REVISED	-	K. ENG 10-27-08

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

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

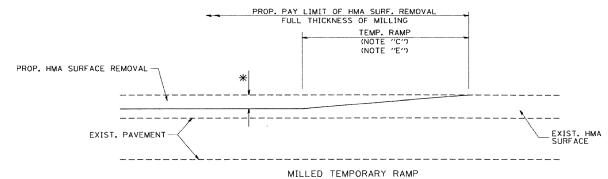
	DESIGNED - MJY			DISTRICT ONE DETAIL SHEETS	F.A.P. SECTION	COUNTY TOTAL SHEET
	DRAWN - ST, TSC	REVISED -	STATE OF ILLINOIS	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	338 108 B-1	LAKE 40 32
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED - MJY, SLV	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RUUTE 39 UVER FLINT CHEEK TRIBUTART	D-90-289-09	CONTRACT NO. 60F92
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 03/26/2010	REVISED -	SC	SCALE: NONE SHEET NO. 3 OF 11 SHEETS STA. 98+00 TO STA. 101+60	FED. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

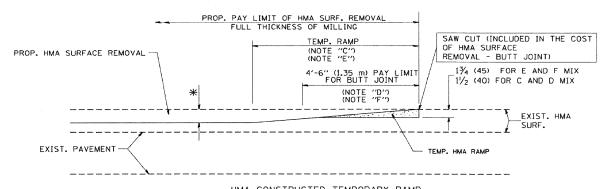
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

	DESIGNED - MJY			DISTRICT ONE DETAIL SHEETS	F.A.P SECTION	COUNTY TOTAL SHEET
CONSULTING ENGINEERS	DRAWN - ST, TSC	REVISED -	STATE OF ILLINOIS	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	338 108 B-1	LAKE 40 33
1560 WALL ST, SUITE 222	CHECKED - MJY, SLV	REVISED -	DEPARTMENT OF TRANSPORTATION	IL HOUSE 33 OVER FLINT CHEEK INIDUTANT	D-90-289-09	CONTRACT NO. 60F92
NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100	DATE - 03/26/2010	REVISED -		SCALE: NONE SHEET NO. 4 OF 11 SHEETS STA. 98+00 TO STA. 101+60	FED. ROAD DIST. NO. ILLINOIS FED. A	JD PROJECT



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

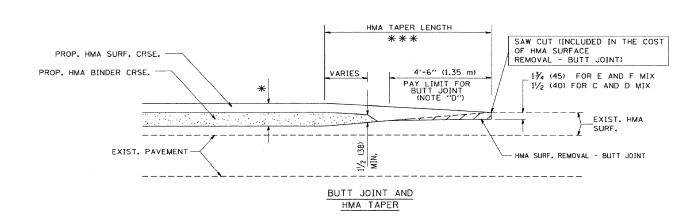
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

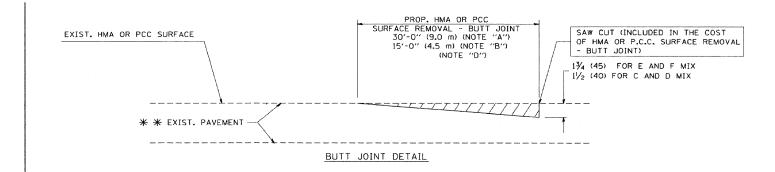
TYPICAL TEMPORARY RAMP

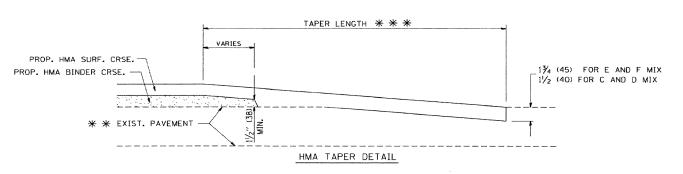


TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

REVISED	-	R. SHAH 10-25-94
REVISED	-	A. ABBAS 03-21-97
REVISED	-	M. GOMEZ 04-06-01
REVISED	-	R. BORO 01-01-07

BUTT JOINT AND HMA TAPER DETAILS





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE. HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- 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.

BASIS OF PAYMENT:

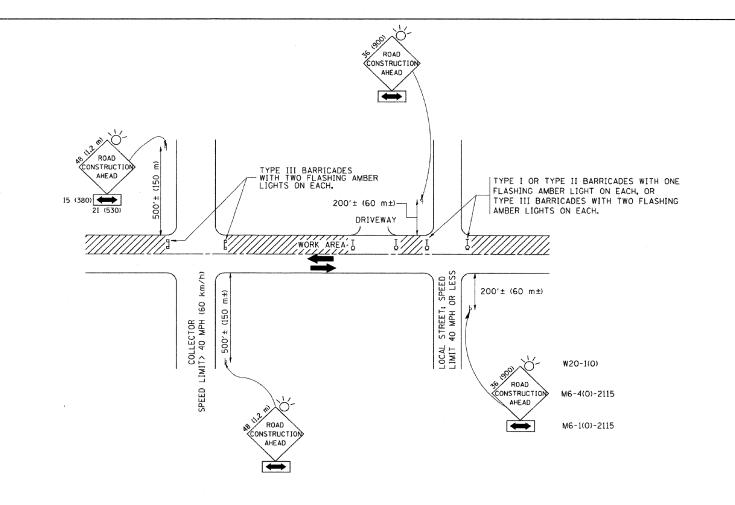
- THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL BUTT JOINT".
 - ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

	DESIGNED -	MJY		
	DRAWN -	ST, TSC	REVISED -	
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED -	MJY, SLV	REVISED -	
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE -	03/26/2010	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		DIS	STF	RIC	T	ONE DET	AIL SI	HEETS			
	L ROU	TE	59	0		R FLINT	CREEK	TRIE	BUT	ARY	
E	SHEET	NO,	5	OF		SHEETS	STA.	98+00	ТО	STA.	101+60

F.A.P. RTE.	SE	CTION			COUNTY	TOTAL SHEETS	SHEET NO.
338	10	8 B-1			LAKE	40	34
	D-90-28	9-09			CONTRACT	NO. 6	0F92
FED. RO	DAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT		



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. 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:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900×900) 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:
- a) ONE ROAD CONSTRUCTION AMEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

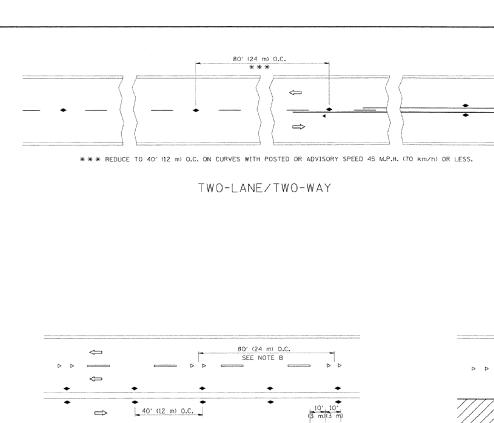
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL 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.

REVISED	-	J.	OBERLE	10-18-95
REVISED	-	Α,	HOUSEH	03-06-96
REVISED	-	Α,	HOUSEH	10-15-96
REVISED	- T	. R	AMMACHE	R 01-06-0

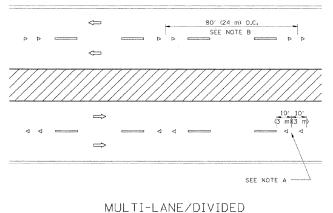
All dimensions are in millimeters (inches) unless otherwise shown.

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

	 DESIGNED - MJY		07.75 05 11.11.010		DISTRICT ONE DETAIL SHEETS	F.A.P. RTE.	SECTION	CC	YTMUC	TOTAL	SHE	έT
CONSULTING ENGINEERS	DRAWN - SI, ISC	REVISED -	STATE OF ILLINOIS		IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	338	108 B-1	L	LAKE	40	35	_
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	 DATE - 03/26/2010	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NONE	SHEET NO. 6 OF 11 SHEETS STA. 98+00 TO STA. 101+60	FED. RO.	D-90-289-09 AD DIST, NO.	FED. AID PRO-	NTRACT JECT	NO. 6	60F9;	2



MULTI-LANE/UNDIVIDED



 \Longrightarrow

GENERAL NOTES

3 @ 40' (12 m) O.C.

LANE REDUCTION TRANSITION

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN,

REVISED

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

REVISED - T. RAMMACHER 09-19-94

T. RAMMACHER 03-12-99 REVISED -T. RAMMACHER 01-06-00 REVISED - C. JUCIUS 09-09-09

SYMBOLS

---- YELLOW STRIPE

1 C

TWO-WAY LEFT TURN

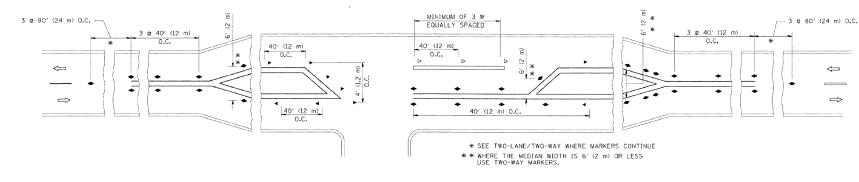
40' (12 m) O.C.

- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE

DESIGN NOTES

- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

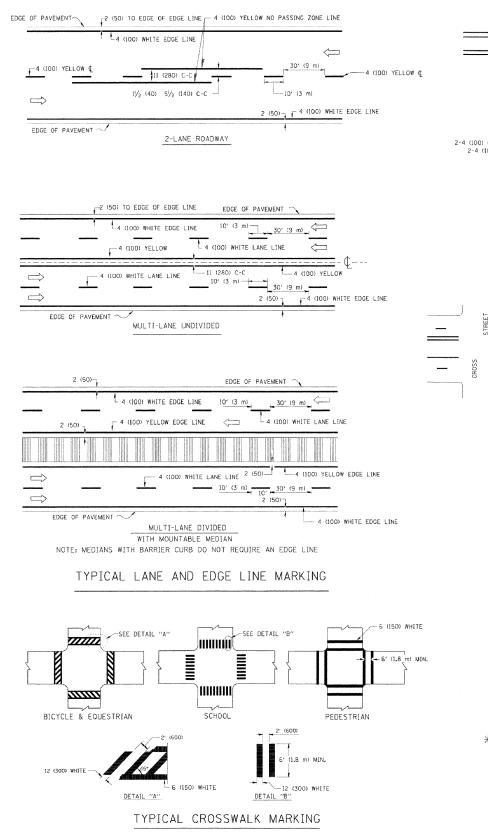


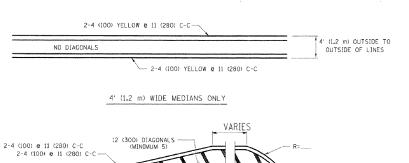
LEFT TURN

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

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

	DESIGNED -	- MJY				DISTRICT ONE DET	AII CUEETO	F.A.P.	SECTION	COUNTY	TOTAL S	HEET
CONSULTING ENGINEERS	DRAWN -	- ST, TSC	REVISED -	STATE OF ILLINOIS		IL ROUTE 59 OVER FLINT		338	108 B-1	LAKE	40	36
1560 WALL ST, SUITE 222	CHECKED -	- MJY, SLV	REVISED -	DEPARTMENT OF TRANSPORTATION		IL HOUTE 35 OVER TEHNI	UNLLK INIDUIANI		D-90-289-09	CONTRAC	CT NO. 60	F92
NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100	DATE -	- 03/26/2010	REVISED -		SCALE: NONE	SHEET NO. 7 OF 11 SHEETS	STA. 98+00 TO STA. 101+60	FED. RO	AD DIST. NO. ILLINOIS FED.	AID PROJECT		





MEDIAN LENGTH

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING
CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED
DIAGONAL LINES.

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))

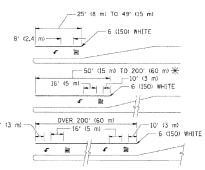
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1,2 m) WIDE 4 (100) YELLOW 4 (100) YELLOW LINES (5½ (140) C-C) 2-4 (100) YELLOW 9 11 (280) C-C A MINIMUM OF TWO RAISS OF THEM ARROWS SAME RE-METER WITH IN COLOR

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.



TYPICAL PAINTED MEDIAN MARKING

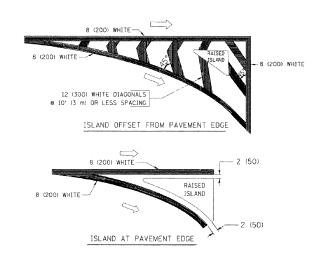


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. $\ref{eq:start}$ area = 15.6 so. ft. (1.5 m²) $\ref{eq:start}$ area = 20.8 so. ft. (1.9 m²)

* 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

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

		T		†
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 UNDIVIDED 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: 5½ (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' (600) 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 FILLOWE FARRED MEDIAN MAINTING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 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: "%"=3.6 SO. FT. (0.33 m²) EACH "%"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

REVISED -T. RAMMACHER 10-27-94

REVISED -C. JUCIUS 09-09-09

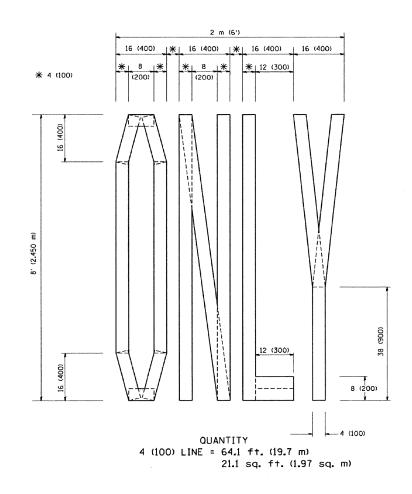
REVISED

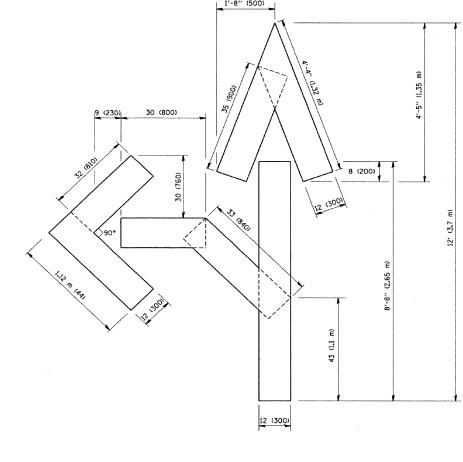
REVISED

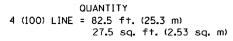
All dimensions are in inches (millimeters) unless otherwise shown.

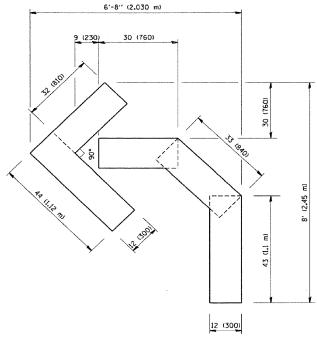
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

	DESIGNED - MJY		DISTRICT ONE DETAIL SHEETS	F.A.P. SECTION COUNTY TOTAL SHE
CONSULTING ENGINEERS	DRAWN - ST REVISED -	STATE OF ILLINOIS	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	338 108 B-1 LAKE 40 3
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	CHECKED - MJY, SLV	DEPARTMENT OF TRANSPORTATION	SCALE, NONE SHEET NO R OF 11 SHEETS STA 98100 TO STA 101160	D-90-289-09 CONTRACT NO. 60FS









OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)
 REVISED
 -T. RAMMACHER 06-05-96

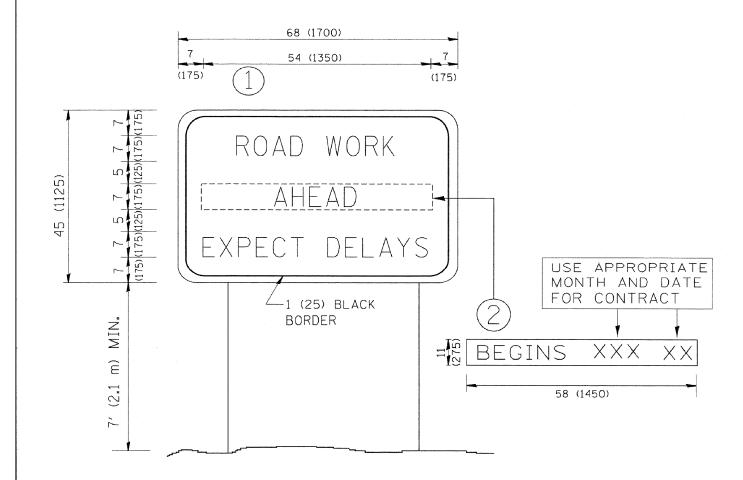
 REVISED
 -T. RAMMACHER 11-04-97

 REVISED
 -T. RAMMACHER 03-02-98

 REVISED
 -E. COMEZ 08-28-00

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

	DESIGNED	- MJY				DISTRICT ONE DETAIL SHEETS	F.A.P.	SECTION	COUNTY	TOTAL SHEET
CONSULTING ENGINEERS	DRAWN	- ST, TSC	REVISED -	STATE OF ILLINOIS		IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	338	108 B-1	LAKE	40 38
1560 WALL ST, SUITE 222 NAPERVILLE, ILLINOIS 60563 PH; (630) 577-9100	DATE	- MJY, SLV - 03/26/2010	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NONE	SHEET NO. 9 OF 11 SHEETS STA. 98+00 TO STA. 101+60	FED. RO	D-90-289-09 AD DIST. NO. ILLINOIS FED.	CONTRACT AID PROJECT	T NO. 60F92



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

REVISED	- R. MIRS 09-15-97
REVISED	- R. MIRS 12-11-97
REVISED	-T. RAMMACHER 02-02-99
REVISED	- C. JUCIUS 01-31-07

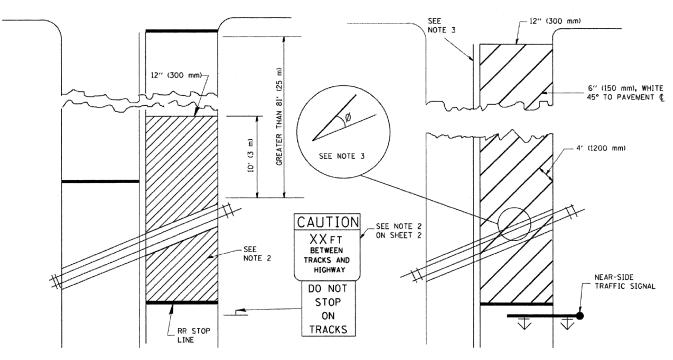
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ARTERIAL ROAD INFORMATION SIGN

				TEV 5 T	TOTAL CUEST
	DESIGNED - MJY		DISTRICT ONE DETAIL SHEETS	PTE SECTION	COUNTY SHEETS NO
	DRAWN - ST, TSC REVISED -	STATE OF ILLINOIS		338 108 B-1	1 AKE 40 39
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED MJY, SLV REVISED	DEPARTMENT OF TRANSPORTATION	IL ROUTE 59 OVER FLINT CREEK TRIBUTARY	D-90-289-09	CONTRACT NO. 60F92
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE - 03/26/2010 REVISED -		SCALE: NONE SHEET NO. 10 OF 11 SHEETS STA. 98+00 TO STA. 101+60	FED. ROAD DIST, NO. ILLINOIS FED. AI	ID PROJECT

WITH INTERSECTION TRAFFIC SIGNALS

WITH NEAR-SIDE TRAFFIC SIGNALS

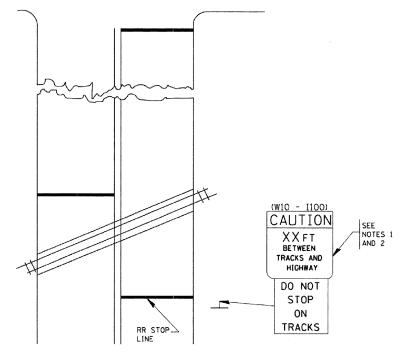


NOTES:

- 1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- 2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
- 3. WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK (Ø) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

WITH NONSIGNALIZED INTERSECTION

81' (25 m) OR LESS TO CLOSEST RAIL



NOTE :

- 1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m), WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- 2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

REVISED	-	01-01-07
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ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

SIGNING AND PAVEMENT MARKINGS TREATMENT FOR RAILROAD CROSSINGS

	DESIGNED -	MJY		
	DRAWN -	ST, TSC	REVISED -	1
CONSULTING ENGINEERS 1560 WALL ST, SUITE 222	CHECKED -	MJY, SLV	REVISED -	1
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100	DATE -	03/26/2010	REVISED -	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL SHEETS												
ı	L ROU	TE	59	0/	/EF	R FLINT	CI	REE	TRIE	BUT	ARY	
	SHEET	NO.	11	OF	11	SHEETS		STA.	98+00	ТО	STA.	101+60

FED. R	OAD DIST		ILLINOIS	FED.	AID		1402	01 32
	D-9	0-289	-09		CONTRACT	NO. F	OF 92	
338		108	B-1		LAKE	40	40	
RTE.		SEC	TION		COUNTY	SHEETS	NO.	