

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-3, 078-1)MBPM-2	BUREAU	9	1
		ILLINOIS	CONTRACT NO. 66E12	

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
5. TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)
6. PAVEMENT MARKING
- 7-9. STRUCTURE PLANS

DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAI 180 (I-180)  
(06-3, 078-1)MBPM-2

STRUCTURAL STEEL CLEANING AND PAINTING  
BUREAU COUNTY

C-93-148-14

D-93-092-14



RURAL

INTERSTATE

FAI 180 (I-180)

2013

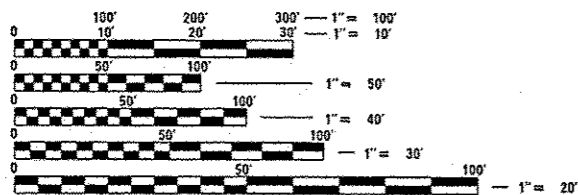
ADT	2600
P.V.	75%
S.U.	8.65%
M.U.	16.35%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED April 2 2015  
*Paul Coste*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
May 8 2015  
*John D. Baranelli* P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT  
May 8 2015  
*Orin Conam* P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT LOCATION

STRUCTURE NUMBER 078-0001  
CARRYING FAI RT. 180 (I-180)  
OVER THE ILLINOIS RIVER  
1.82 MILES EAST OF IL 26  
AT HENNEPIN



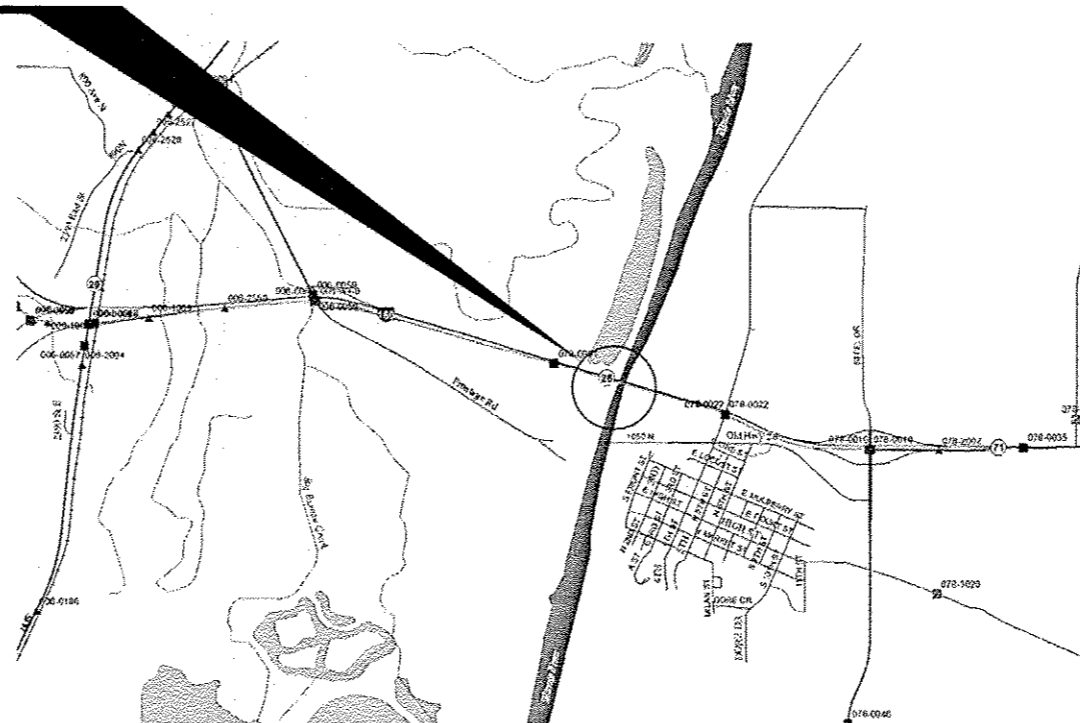
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT 3 (815) 434-6131

PROJECT ENGINEER JOE KANNEL P.E.  
UNIT CHIEF RON WOODSHANK  
TOWNSHIP LEEPERTOWN

CONTRACT NO. 66E12



POINT LOCATION  
LOCATION MAP NOT TO SCALE

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED BASED UPON THE UNIT BID FOR THE WORK.

AS PER ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS WHENEVER PUBLIC OR PRIVATE PROPERTY IS DAMAGE OR DESTROYED DUE TO THE OPERATIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE DEPARTMENT, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THE EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE BY REPAIRING, REBUILDING, OR REPLACING IT AS MAY BE DIRECTED, OR THE CONTRACTOR SHALL OTHERWISE MAKE GOOD SUCH DAMAGE OR DESTRUCTION IN AN ACCEPTABLE MANNER.

THE CONTRACTOR SHALL NOT CLOSE A LANE IN THE EASTBOUND AND WESTBOUND TRAFFIC LANES AT THE SAME TIME UNLESS APPROVED IN WRITING BY THE ENGINEER.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

SUITABLE ON-SITE SANITARY FACILITIES MEETING FEDERAL, STATE AND LOCAL HEALTH DEPARTMENT REQUIREMENTS SHALL BE PROVIDED AND MAINTAINED CLEAN AND IN GOOD WORKING CONDITION AND SHALL BE STOCKED WITH LAVATORY AND SANITARY SUPPLIES AT ALL TIMES DURING THE PERIOD OF THE CONTRACT.

THE FURNISHING, MAINTENANCE AND LAVATORY SUPPLIES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEMS INVOLVED UNDER THIS CONTRACT.

THE EXISTING STRUCTURAL STEEL CONTAINS LEAD. THE CONTRACTOR SHOULD TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH LEAD PAINT ON THIS PROJECT.

**COMMITMENTS**

DATE: April 2, 2015

PREPARED BY: [Signature]  
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: [Signature]  
DISTRICT CONSTRUCTION ENGINEER

[Signature]  
DISTRICT MATERIALS ENGINEER

[Signature]  
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = patelyj	DESIGNED - ZJL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\work\p\idot\patelyj\0401777\0366\2-shr-details.dgn	DRAWN - ZJL	REVISED -	180			(06-3, 078-1MBPM-2	BUREAU	9	2	
PLOT SCALE = 1/8" = 1'-0"	CHECKED - RLW	REVISED -	CONTRACT NO. 66E12							
PLOT DATE = 3/23/2015	DATE - 8/6/14	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: _____	SHEET 1 OF 1 SHEETS	STA. _____	TO STA. _____			

CONSTR. CODE  
 MBPM  
 100% STATE  
 BRIDGE  
 0014  
 S. N. 078-0001

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
67100100	MOBILIZATION	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	275	275
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	825	825
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5325	5325
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1040	1040
78300100	PAVEMENT MARKING REMOVAL	SO FT	2295	2295
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1	1
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	21	21

\*SPECIALITY ITEMS

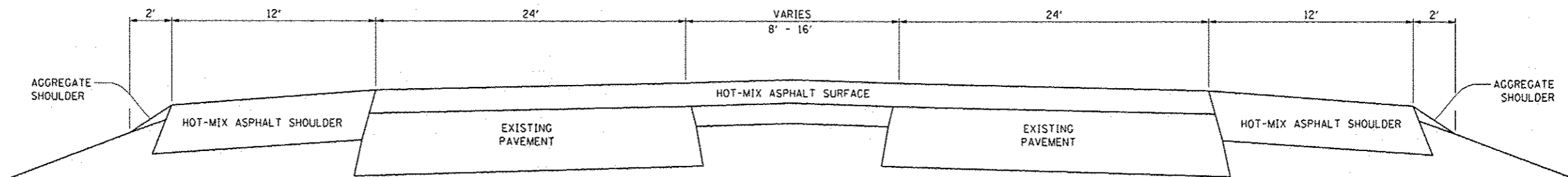
FILE NAME =	USER NAME = patelvj	DESIGNED - Z.JL	REVISED -
c:\pwork\pwork\patelvj\d0481777\036612-shd-details.dgn		DRAWN - Z.JL	REVISED -
	PLOT SCALE = 100.0000 1/ in.	CHECKED - RLW	REVISED -
	PLOT DATE = 3/23/2015	DATE - 8/6/14	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

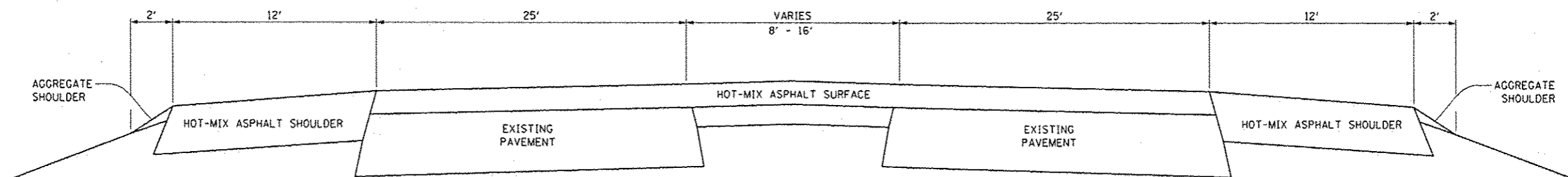
SUMMARY OF QUANTITIES

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

F.A.I. RTE. 180	SECTION 06-3, 078-1MBPM-2	COUNTY	TOTAL SHEETS	SHEET NO.
		BUREAU	9	3
			CONTRACT NO. 66E12	
ILLINOIS FED. AID PROJECT				

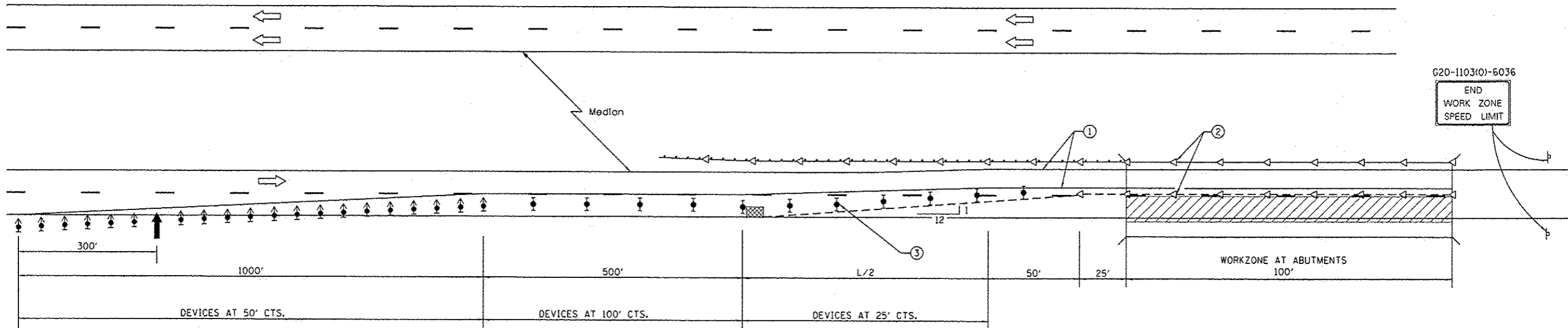


**TYPICAL SECTION**  
EAST OF THE ILLINOIS RIVER



**TYPICAL SECTION**  
WEST OF THE ILLINOIS RIVER

FILE NAME =	USER NAME = potelyj	DESIGNED - Z.JL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\potelyj\10401777\0366012-sht-details.dgn	DRAWN - Z.JL	REVISED -	180			106-3, 078-11MBPM-2	BUREAU	9	4	
PLOT SCALE = 1/8"=1'-0"	CHECKED - RLW	REVISED -	CONTRACT NO. 66E12							
PLOT DATE = 3/23/2015	DATE - 8/6/14	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____						



SEE STANDARD 701400 FOR APPROACH  
START OF LANE CLOSURE TAPER

**SYMBOLS**

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⊢ SIGN
- ↕ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⊥ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- ▣ IMPACT ATTENUATOR

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' (7.6 M). MARKERS ON RIGHT SHALL BE SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER.
- ③ VERTICAL BARRICADES SHALL NOT BE USED IN LANE SHIFT TAPER.

**GENERAL NOTES**

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

CALCULATE L AS FOLLOWS:

NORMAL POSTED SPEED	FORMULAS	
	ENGLISH L=(W)(S)	(METRIC) L=0.65(W)(S)
45 MPH (80 KM/H) OR MORE		

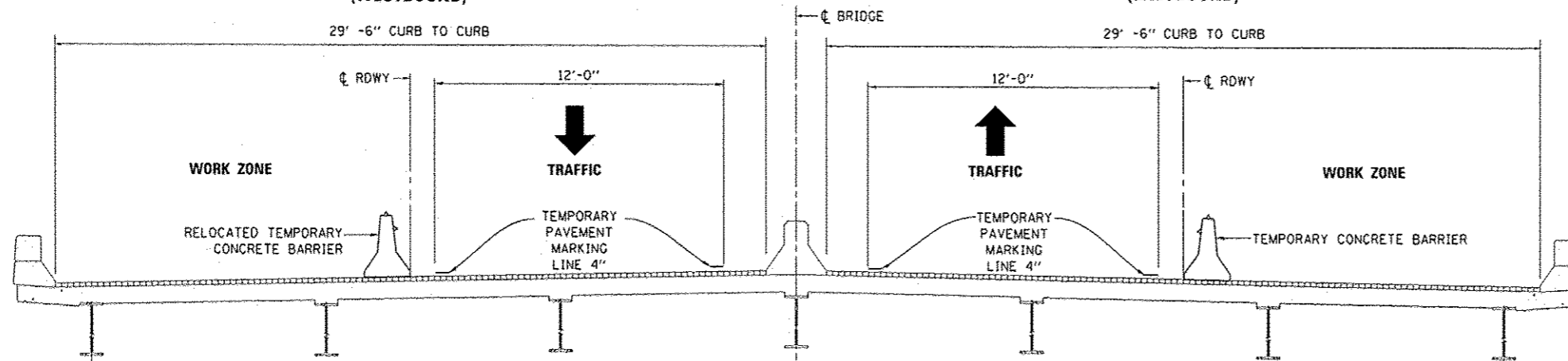
W = Width of offset  
In feet (meters).

S = Normal posted speed  
In mph (km/h).

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

**STAGE II CONSTRUCTION (WESTBOUND)**

**STAGE I CONSTRUCTION (EASTBOUND)**



**CROSS SECTION (LOOKING EAST)**

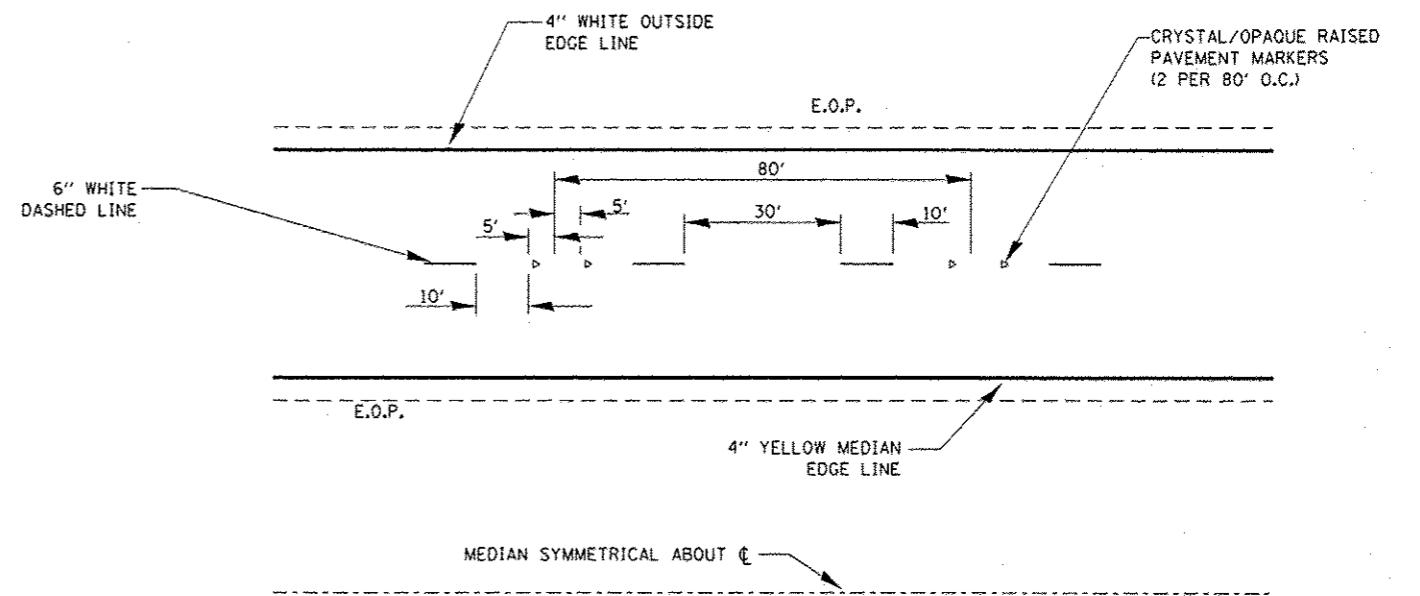
FILE NAME: c:\pwork\puidot\patelg\0401777\036012-shu-detailed.dgn	USER NAME: patelg	DESIGNED - Z.J.L.	REVISED -
PLOT SCALE = 100.0000' / 1"		DRAWN - Z.J.L.	REVISED -
PLOT DATE = 3/23/2015		CHECKED - RLW	REVISED -
		DATE - 8/6/14	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL AND PROTECTION  
STANDARD 701402 (SPECIAL)**

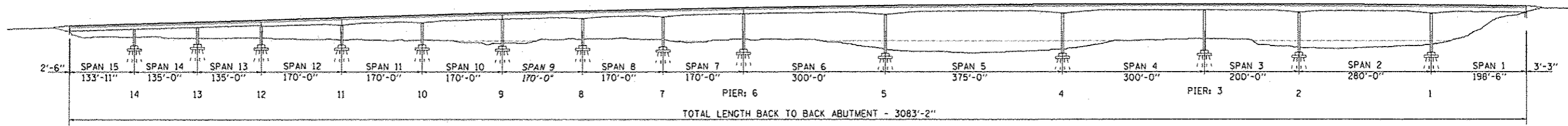
SCALE: \_\_\_\_\_ SHEET 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE. 180	SECTION (06-3, 078-1MBPM-2)	COUNTY	TOTAL SHEETS 9	SHEET NO. 5
BUREAU			CONTRACT NO. 66E12	
ILLINOIS FED. AID PROJECT				



**TYPICAL PAVEMENT MARKINGS**

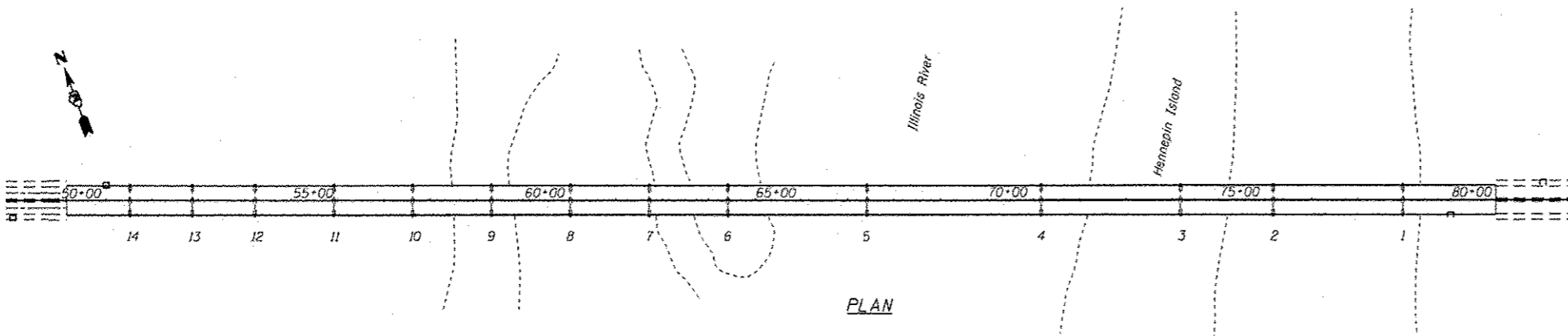
FILE NAME = c:\pwork\pwork\patel\10401777\036612.sht	USER NAME = patelj	DESIGNED - Z.A.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT STRIPING</b>	F.A.T. RTE. 180	SECTION 106-3, 078-11MBPM-2	COUNTY	TOTAL SHEETS 9	SHEET NO. 6		
	PLOT SCALE = 100.0000' / 1"	DRAWN - Z.A.	REVISED -			CONTRACT NO. 66E12	ILLINOIS FED. AID PROJECT					
	PLOT DATE = 3/23/2015	CHECKED - RLW	REVISED -			SCALE: _____	SHEET 1 OF 1 SHEETS	STA. _____	TO STA. _____			
		DATE - 8/6/14	REVISED -									



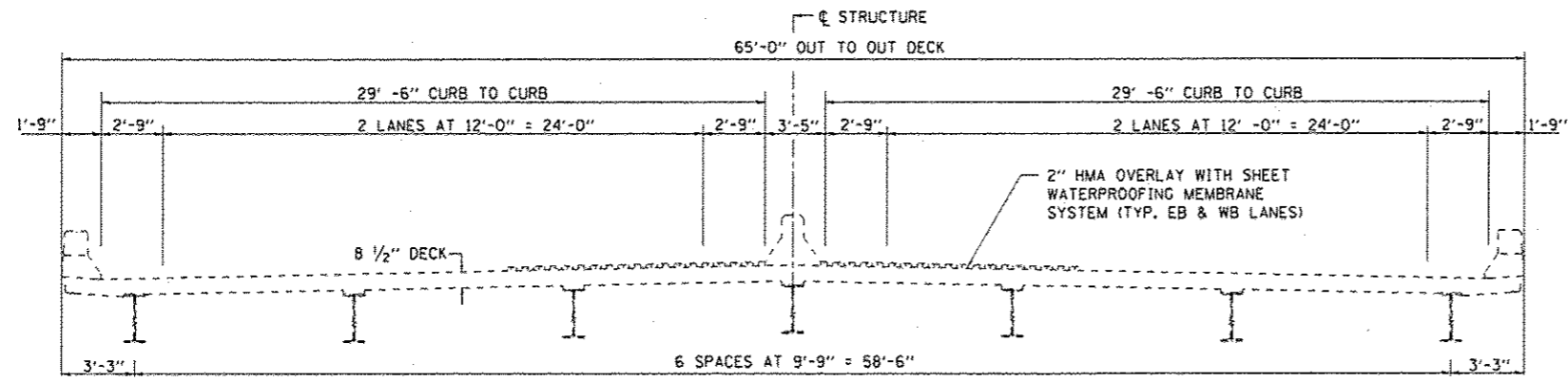
**ELEVATION**

**GENERAL NOTES**

1. STRUCTURE NO. 078-0001 SHALL BE DESIGNATED AS "LOCATION 1".
3. 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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
4. THE SSPC-OP1 AND SSPC-OP2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.
5. A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS PROJECT. THE SHALL FURNISH AND INSTALL THE MONITORS AS SHOWN ON PLAN DETAILS. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".)
6. CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND AS SPECIFIED BELOW.
  - a) ALL EXISTING STRUCTURAL STEEL, INCLUDING BEAMS, DIAPHRAGMS, CROSS/LATERAL FRAMING WHEN PRESENT, BEARINGS, AND OTHER ASSOCIATED STEEL COMPONENTS WITHIN TEN FEET OF ABUTMENTS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING, SSPC-SP10.
  - b) ALL STEEL TO BE CLEANED SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1- OZ/E/U."
- 1) THE FINAL FINISH COAT FOR ALL INTERIOR STRUCTURAL STEEL BE "GRAY, MUNSELL NO. 5B 7/1".
- 2) FINISH COAT FOR EXTERIOR FACE, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "BLUE, MUNSELL NO. 10B 3/6.
7. THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.
8. WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LISCENSED TO DISPOSE OF LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED COMPLETION DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 109.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN PROPERLY REMOVED AND DISPOSED OF.



**PLAN**

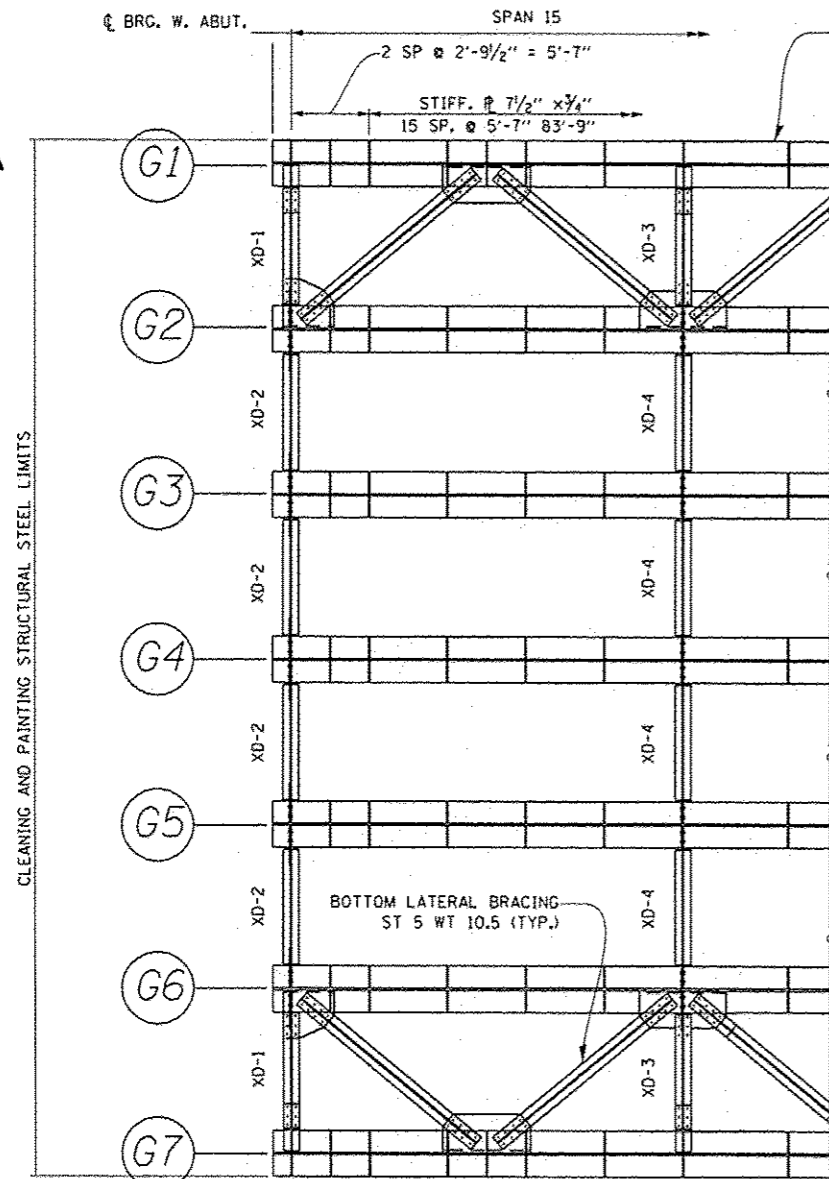


**CROSS SECTION**

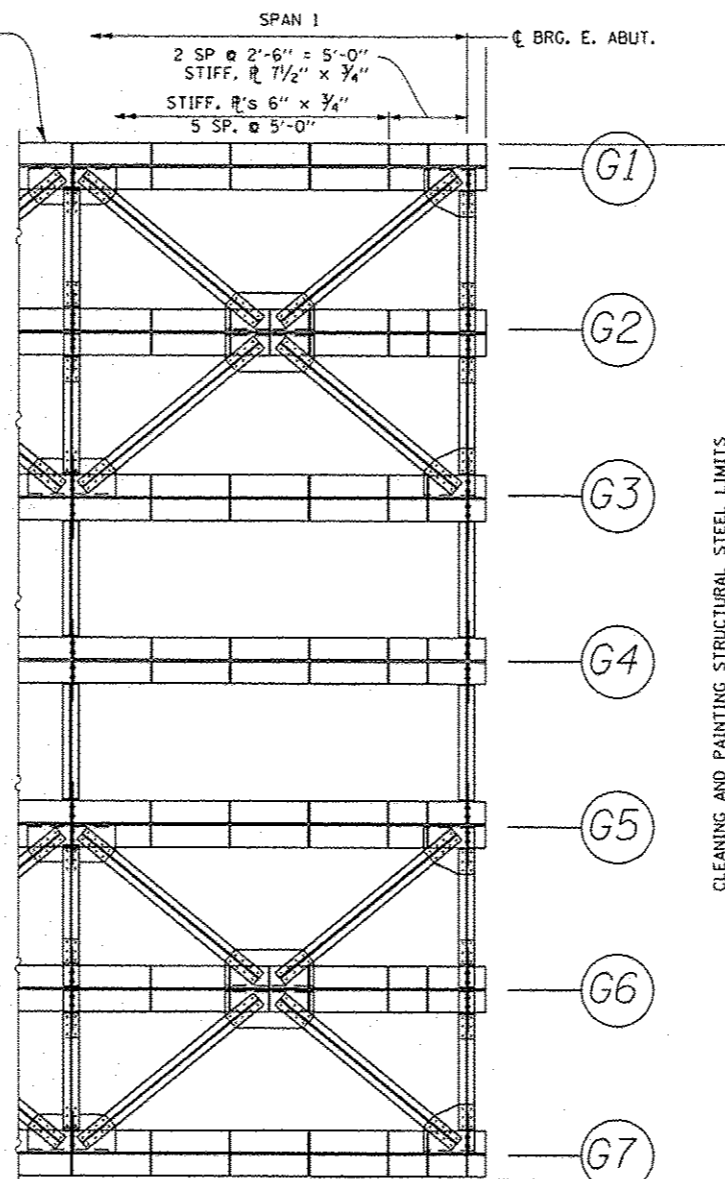
- AIR MONITORS
- RELOCATED AIR MONITORS

**TOTAL BILL OF MATERIAL**

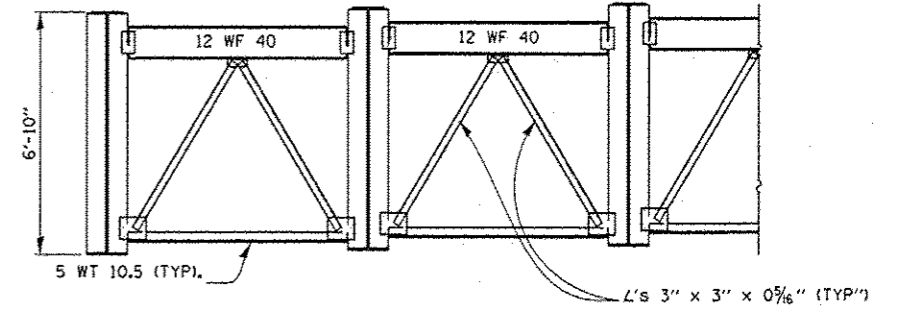
ITEM	UNIT	078-0001	TOTAL
CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1



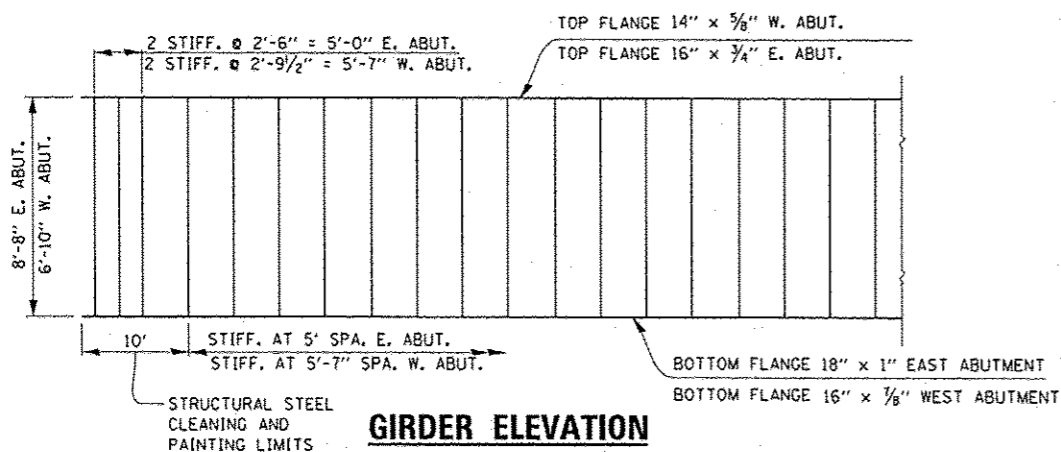
**PLAN AT ABUTMENT  
AT WEST ABUTMENT**



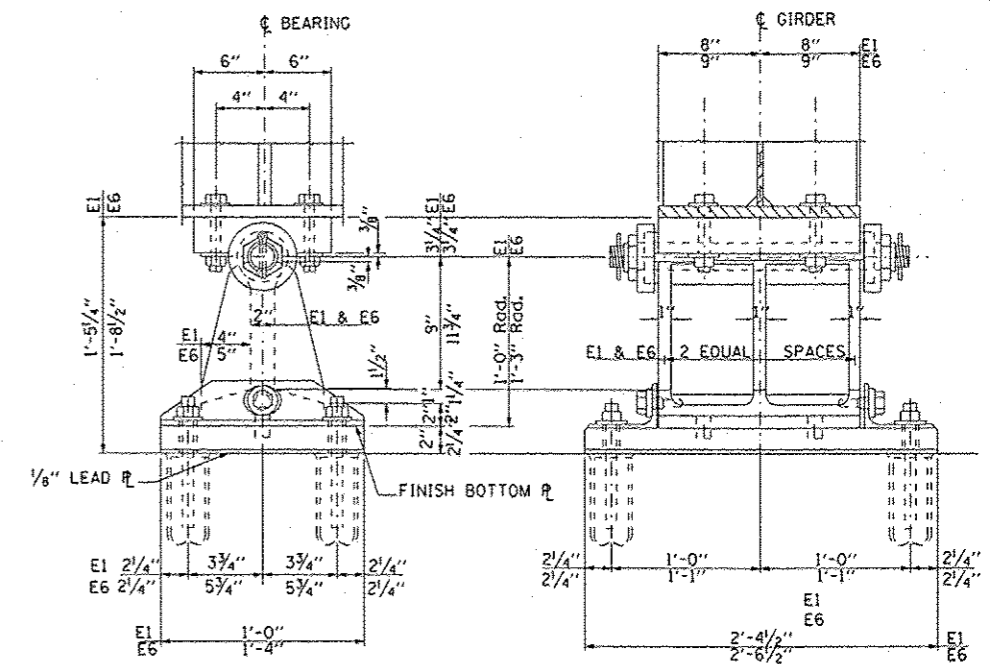
**PLAN AT ABUTMENT  
AT EAST ABUTMENT**



**CROSS FRAMING  
AT ABUTMENTS**



**GIRDER ELEVATION**



**EXPANSION BEARINGS AT ABUTMENTS**

FILE NAME: c:\pwwork\pudat\patel\j\040177103602-2-sht-detail.dgn	USER NAME: jpatel	DESIGNED: Z.JL	REVISED:
PLT SCALE: 1/80.0000 1/8" = 1'	PLT DATE: 3/23/2015	DRAWN: Z.JL	REVISED:
		CHECKED: RLW	REVISED:
		DATE: 8/6/14	REVISED:

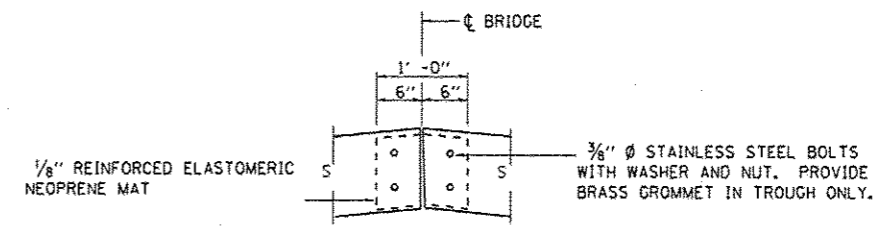
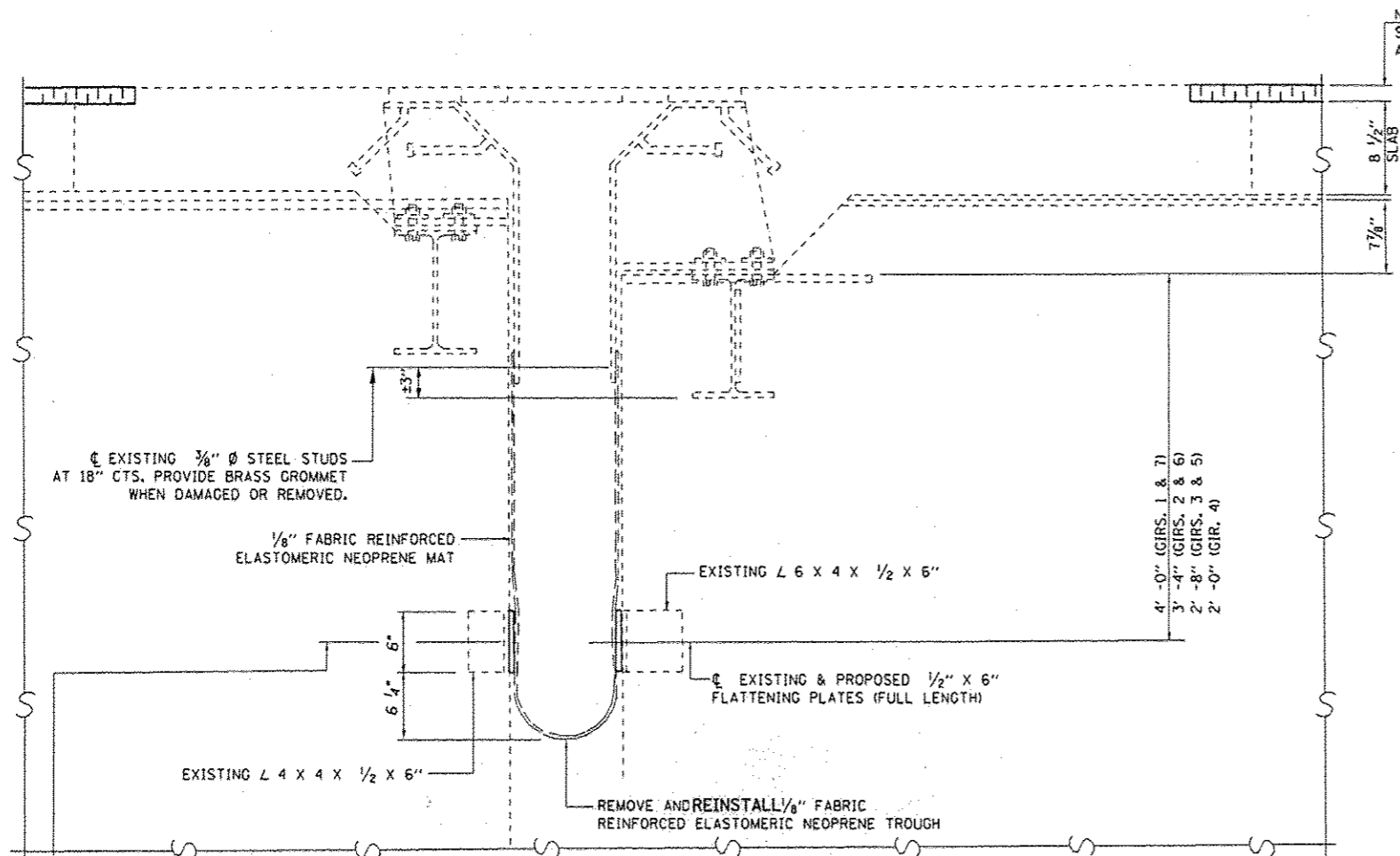
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS AT WEST ABUT.  
FOR STRUCTURE NO. 078-0001

SCALE: _____	SHEET 2 OF 3 SHEETS	STA. 50+17 TO STA. 80+97	F.A.I. RTE. 180	SECTION 106-3, 078-1MBPM-2	COUNTY BUREAU	TOTAL SHEETS 9	SHEET NO. 8
--------------	---------------------	--------------------------	-----------------	----------------------------	---------------	----------------	-------------

ILLINOIS FED. AID PROJECT  
CONTRACT NO. 66E12



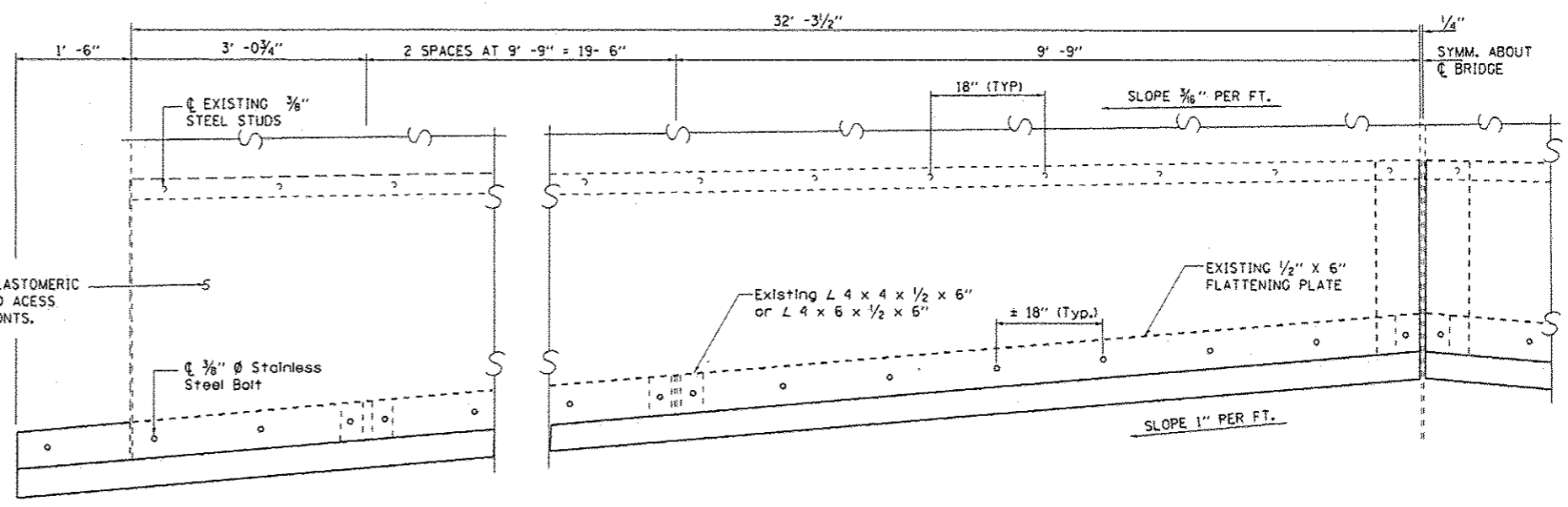


TROUGH SPLICE DETAIL

3/8" Ø EXISTING STAINLESS STEEL BOLTS WITH WASHER AND NUT. PROVIDE BRASS GROMMET IN TROUGH ONLY. NO BOLT IN TROUGH SIDEWALL AT THIS LOCATION.

SECTION B-B AT PIERS 3, 6, 9 & 12

REMOVE AND REINSTALL EXISTING ELASTOMERIC NEOPRENE MATS WHEN NECESSARY TO ACCESS STRUCTURAL STEEL AT ABUTMENT JOINTS.



FILE NAME	USER NAME	DESIGNED - ZJL	REVISED -
		DRAWN - ZJL	REVISED -
		CHECKED - RLW	REVISED -
		DATE - 8/6/14	REVISED -
PLOT SCALE - 100,0000' = 1"			
PLOT DATE - 3/24/2015			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FINGER JOINT TROUGH DETAILS FOR  
STRUCTURE NO. 078-0001

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	106-3, 078-11MBPM-2	BUREAU	9	9
CONTRACT NO. 66E12			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 3 OF 3 SHEETS STA. 50+17 TO STA. 80+97