

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	1
ILLINOIS		CONTRACT NO. 70D14		

D-95-005-18



FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

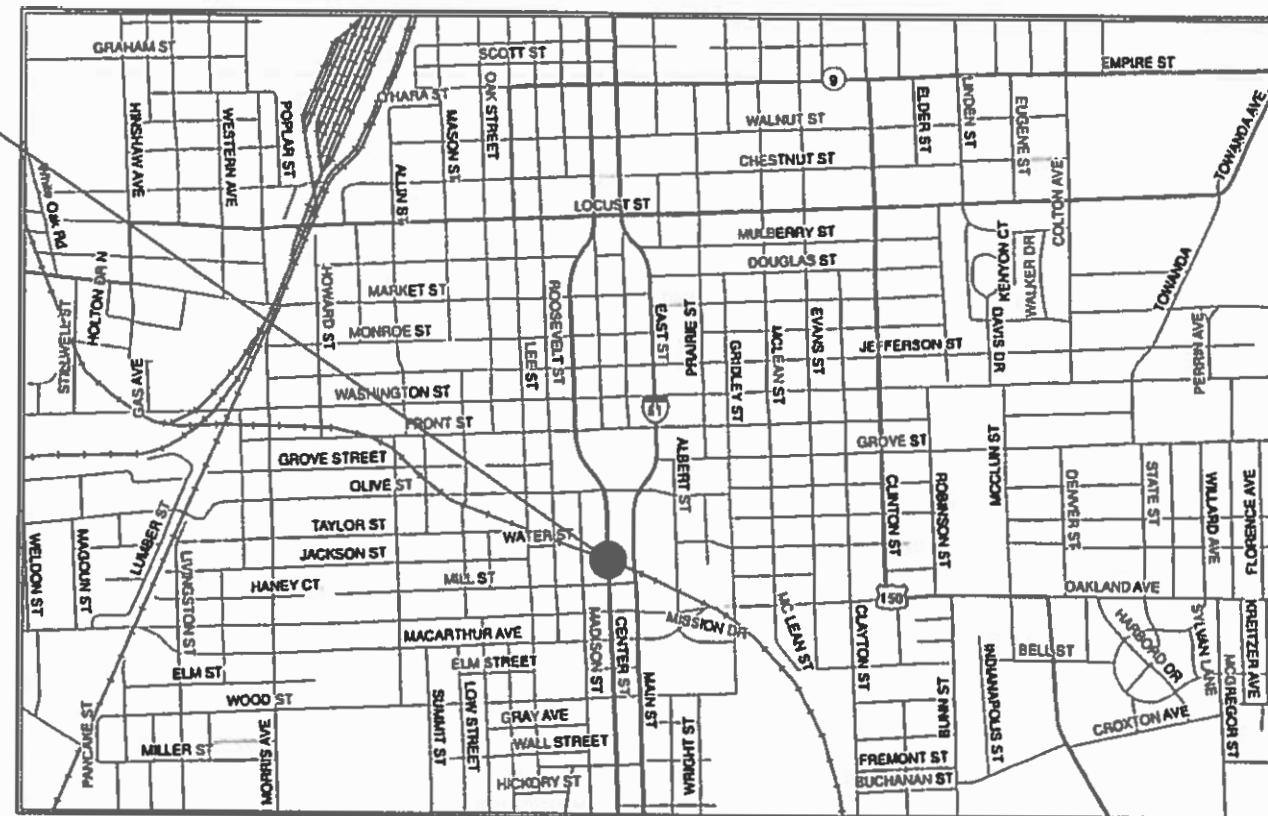
F.A.P. ROUTE 730 (U.S. ROUTE 51 BUSINESS SB)
SECTION (61Z-1) BRR
PROJECT NHPP - WXNR (087)
BRIDGE REPAIRS OVER NSRR & S. CENTER ST.
MCLEAN COUNTY

C-95-002-19

U.S. ROUTE 51 BUSINESS SB
OTHER PRINCIPAL ARTERIAL (URBAN)

2018 ADT = 10,000
2038 ADT = 11,000
PU & PC = 91.7%
SU = 7.0%
MU = 1.3%
NHS ROUTE = YES
POSTED SPEED = 30 MPH

SN 057-6301
STA. 145+28; 647'-8" B-B
BRIDGE REPAIR:
REPLACE PIERS 2 & 6
AND EXPANSION JOINTS



BLOOMINGTON TOWNSHIP / R 2 E



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

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

PROJECT ENGINEER: TIM BRANDENBURG
PROJECT MANAGER

CONTRACT NO. 70D14

GROSS LENGTH = 732.0 FT. = 0.1386 MILE
NET LENGTH = 732.0 FT. = 0.1386 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 25 2019
Paul J. Chaffin
REGIONAL ENGINEER

March 22 2019
an E.A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 2019
Paul J. Chaffin
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STANDARDS & GENERAL NOTES
3 to 5	SUMMARY OF QUANTITIES
6 to 7	TYPICAL SECTIONS
8 to 13	PLAN VIEW AND DETAIL SHEETS
14 to 18	STAGING SHEETS
19 to 30	BBS REPAIR SHEETS
31 to 44	2004 AS-BUILT STRUCTURE PLANS
45 to 51	1971 AS-BUILT STRUCTURE PLANS

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

GN 105.07C
 EXISTING STATE-OWNED AND MAINTAINED UNDERGROUND UTILITY FACILITIES EXIST WITHIN THE ROW. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE IT'S OWN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR SECURING AN APPROVED LOCATING FIRM TO LOCATE ALL EXISTING IDOT UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY EXCAVATION, PER THE REQUIREMENTS OF ARTICLE 803 OF THE STANDARD SPECIFICATIONS. UTILITY LOCATES MAY ALSO BE REQUIRED OUTSIDE THE PROJECT LIMITS, SUCH AS FOR TRAFFIC CONTROL SIGNING AND OTHER ITEMS. THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS OF EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT. FOR FURTHER INFORMATION, THE CONTRACTOR MAY CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER, GARY SIMS, AT 217-251-4859.

G.N.-105.09A
 ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. -406H
 MIXTURE REQUIREMENTS
 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	South Center Street
Mixture Use	Surface
AC/PG	SBS PG 70-22
Design Air Voids	4.0% @ Ndes=90
Mix Comp(Gradation)	IL 9.5
Friction Aggregate	Mix D
Mixture Weight	112
Quality Management Program	QC/QA
Sublot Size	N.A.

G.N.-1004.01
 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N. - PAVEMENT MARKINGS, MARKERS AND JOINTS
 EXISTING PAVEMENT MARKINGS SHALL BE REMOVED AND REPLACED AS DESCRIBED IN THE CONTRACT SPECIAL PROVISIONS AND PLAN DOCUMENTS.

EXISTING RAISED REFLECTIVE PAVEMENT MARKERS AND JOINTS SHALL BE TEMPORARILY COVERED PRIOR TO APPLICATION OF THE DECK SURFACE TREATMENT, TO PREVENT THE MATERIAL FROM BEING APPLIED TO OR DAMAGE TO THE MARKERS AND JOINTS. THE TEMPORARY COVERING SHALL BE REMOVED AFTER APPLICATION OF THE DECK SURFACE TREATMENT AND PRIOR TO OPENING TRAFFIC. COST INCLUDED WITH THE DECK SURFACE TREATMENT SPECIFIED.

HIGH FRICTION SURFACE TREATMENT SHALL BE APPLIED TO THE DECK SURFACE; F-F OF CURB.

BRIDGE DECK CONCRETE SEALER SHALL BE APPLIED TO THE TOP AND INSIDE VERTICAL FACES OF THE PARAPETS AND SIDEWALKS.

THE DECK WAS VISUALLY INSPECTED ON DECEMBER 20, 2018 AND NO PATCHING WAS IDENTIFIED. SHOULD PATCHING BE NECESSARY DURING THIS CONTRACT, THE ENGINEER SHALL ESTABLISH LOCATIONS, QUANTITIES AND AGREED UNIT PRICES TO COMPLETE THIS WORK AND SHOW THE ACTUAL LOCATIONS OF DECK PATCHING ON THE GENERAL PLAN AND ELEVATION SHEET.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES AND HIGHWAY STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	2
			CONTRACT NO. 70D14	
			ILLINOIS FED. AID PROJECT	

		LOCATION OF WORK:		
		FUNDING BREAKOUT:	MCLEAN COUNTY US 51 BUSINESS SB URBAN TWO-LANE SN 057-6301 BRIDGE REPAIRS 80% STATE / 20% FED 0013	
		CONSTRUCTION TYPE CODE:		
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	
31100200	SUBBASE GRANULAR MATERIAL, TYPE A	CU YD	36.0	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	200.0	
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	75.0	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	160.0	
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	445.0	
44000500	COMBINATION CURB & GUTTER REMOVAL	FOOT	130.0	
44000600	SIDEWALK REMOVAL	SQ FT	160.0	
50102400	CONCRETE REMOVAL	CU YD	80.6	
50200100	STRUCTURE EXCAVATION	CU YD	36.0	
50300225	CONCRETE STRUCTURES	CU YD	67.9	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	13.9	
50300300	PROTECTIVE COAT	SQ YD	42.0	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	610.0	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	15,940.0	
50800515	BAR SPLICERS	EACH	32.0	
	* SPECIALTY ITEMS			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	3
			CONTRACT NO. 70D14	
ILLINOIS FED. AID PROJECT				

		LOCATION OF WORK:	MCLEAN COUNTY US 51 BUSINESS SB URBAN TWO-LANE SN 057-6301 BRIDGE REPAIRS 80% STATE / 20% FED 0013	
		FUNDING BREAKOUT:		
		CONSTRUCTION TYPE CODE:		
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	
50800530	MECHANICAL SPLICERS	EACH	80.0	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	80.0	
52100520	ANCHOR BOLTS, 1"	EACH	64.0	
58700300	CONCRETE SEALER	SQ FT	2,055.0	
60607400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.24	FOOT	130.0	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12.0	
67100100	MOBILIZATION	L SUM	1.0	
70102630	TRAFFIC CONTROL & PROTECTION, STANDARD 701601	L SUM	1.0	
70102640	TRAFFIC CONTROL & PROTECTION, STANDARD 701801	L SUM	1.0	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28.0	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	170.0	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	57.0	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	875.0	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	700.0	
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1.0	
	* SPECIALTY ITEMS			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	4
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	

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		LOCATION OF WORK:		
		FUNDING BREAKOUT:	MCLEAN COUNTY	
		CONSTRUCTION TYPE CODE:	US 51 BUSINESS SB	
			URBAN TWO-LANE	
			SN 057-6301 BRIDGE REPAIRS	
			80% STATE / 20% FED	
			0013	
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1.0	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	170.0	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	57.0	
X0696000	BRIDGE DRAINAGE SYSTEM	L SUM	1.0	
Z0003803	REMOVE AND REINSTALL EXISTING BEARINGS	EACH	32.0	
X1000002	HIGH FRICTION SURFACE TREATMENT FOR BRIDGE DECK SURFACES	SQ YD	2,440.0	
X4510050	HIGH FRICTION SURFACE TREATMENT CRACK FILLING	FOOT	2,202.0	
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	12,444.0	
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4.0	
* SPECIALTY ITEMS				

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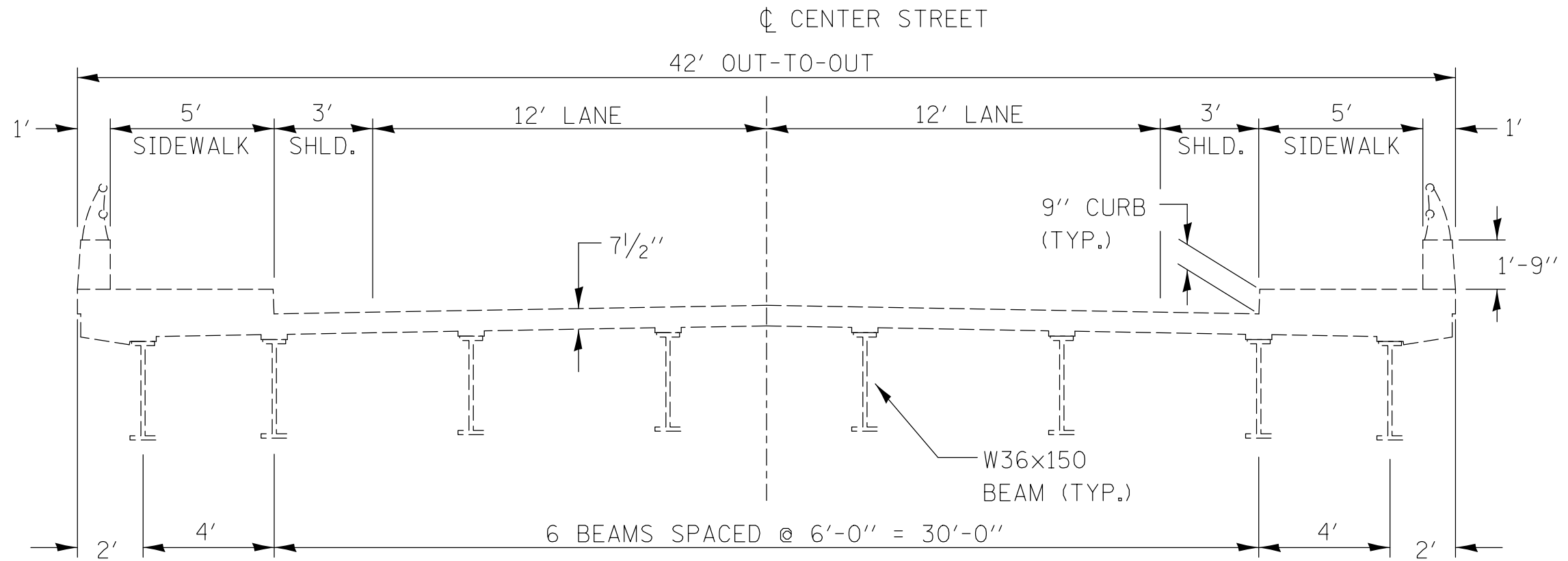
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

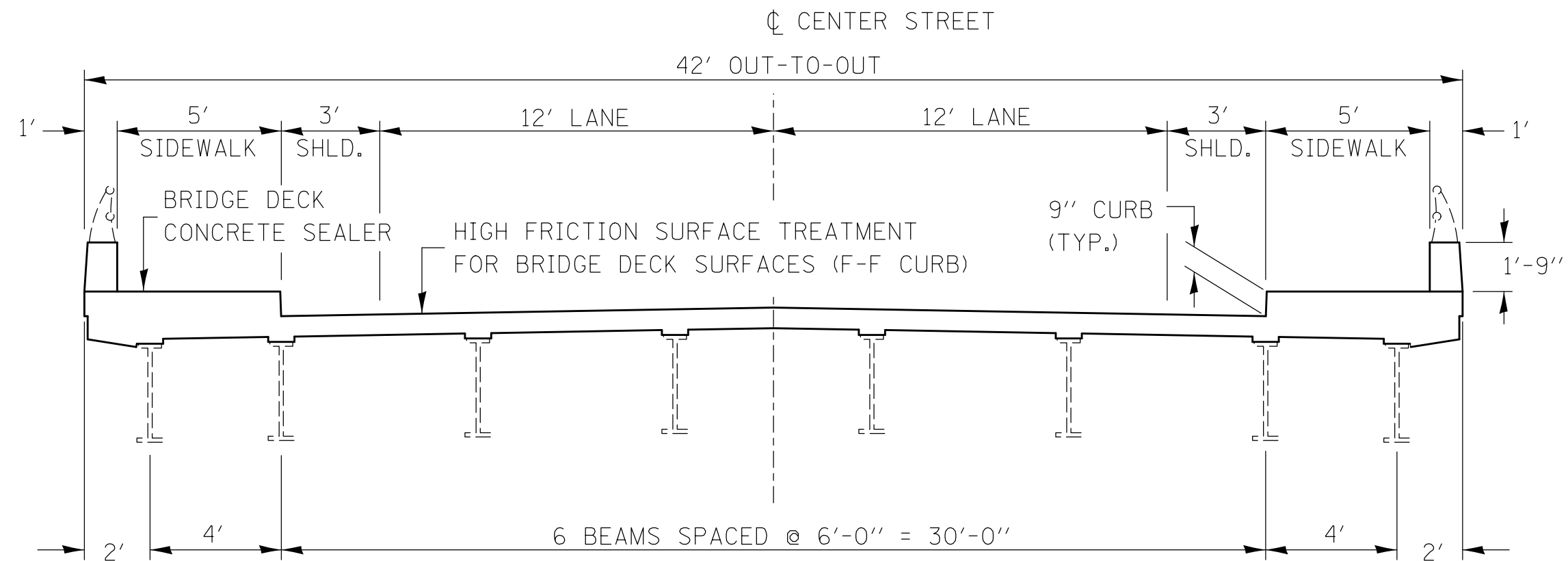
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	5
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	

EXISTING DECK CROSS SECTION



PROPOSED DECK CROSS SECTION



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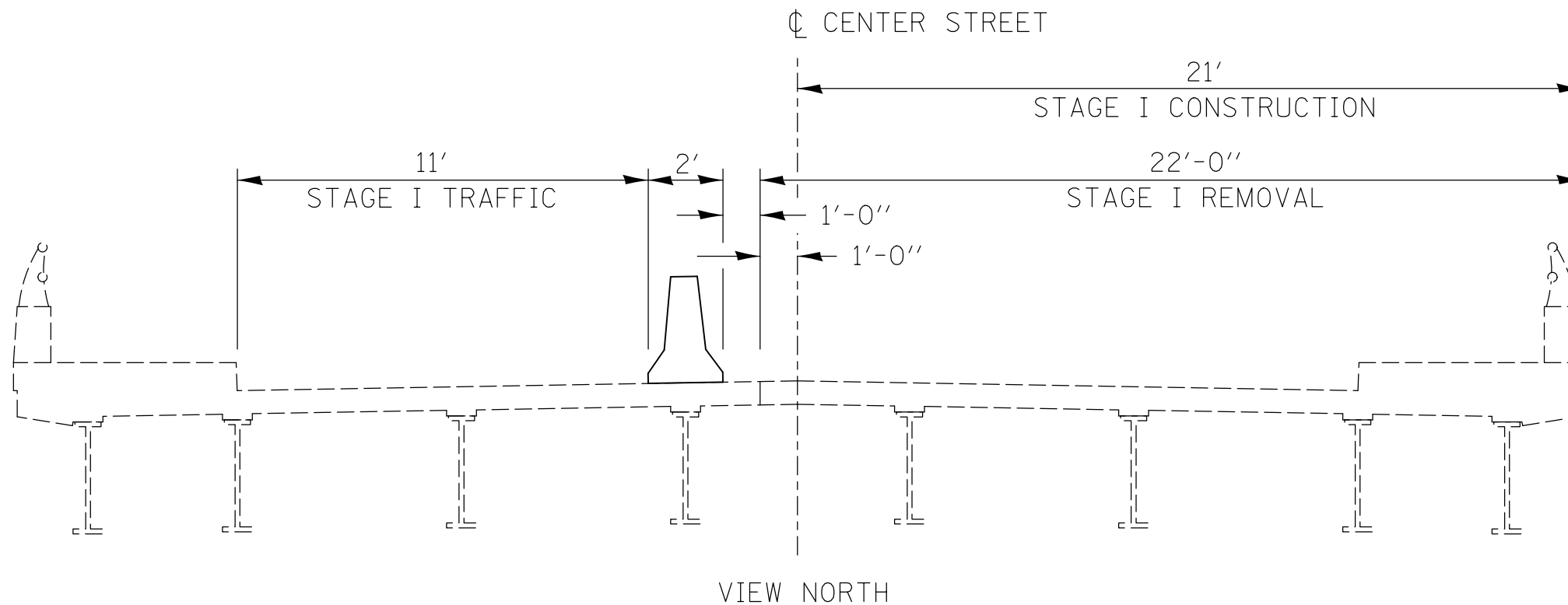
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DEPARTMENT OF TRANSPORTATION**

TYPICAL DECK SECTIONS S.N. 057-6301

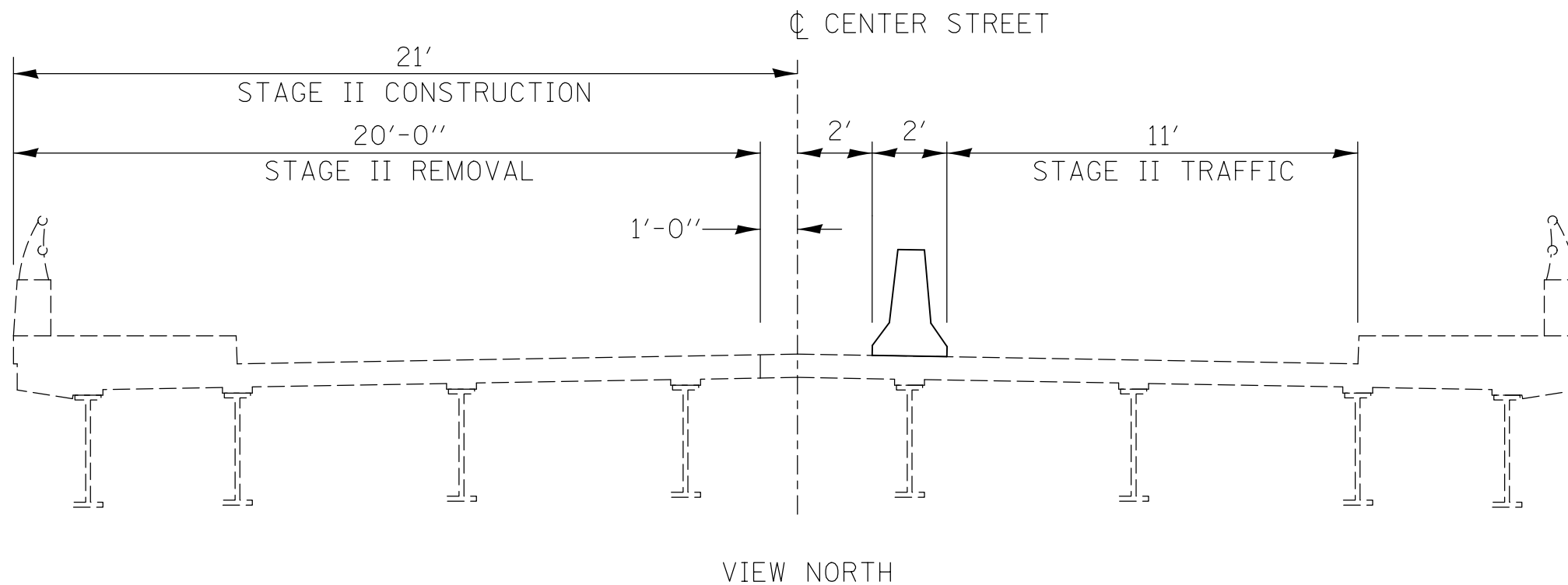
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CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

STAGE I



STAGE II



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED CONSTRUCTION TYPICAL DECK SECTIONS S.N. 057-6301

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

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730	(61Z-1) BRR	MCLEAN	51	7
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	

SN 057-6301

McLean County GIS

CN 70D14
April 2019 Letting



October 27, 2017

- Parcels
- PIN

1:2,257



October 27, 2017: site visit with Hermes Service & Sales and Alley Kats Arts & Antiques

May 17, 2018: made initial phone calls to Hermes Property Management, Kirk Holdings LLC, Douglas Nord and City of Bloomington

June 1, 2018: mailed informational letters to all owners and tenants

- Red - Work Areas
- Blue - Temporary Parking & Access Notes
- Green - Parcel Information

Other information:
 70A16 - Bridge Painting in 2014
 12X515 - Parapet Repair in 2012 with Day Labor
 66060 - Rehabilitation - Deck Replacement in 2004
 981302 - Pier 2 & 6 Repairs in 1998 with Day Labor
 Section 61Z-1-VB - Original Construction in 1971

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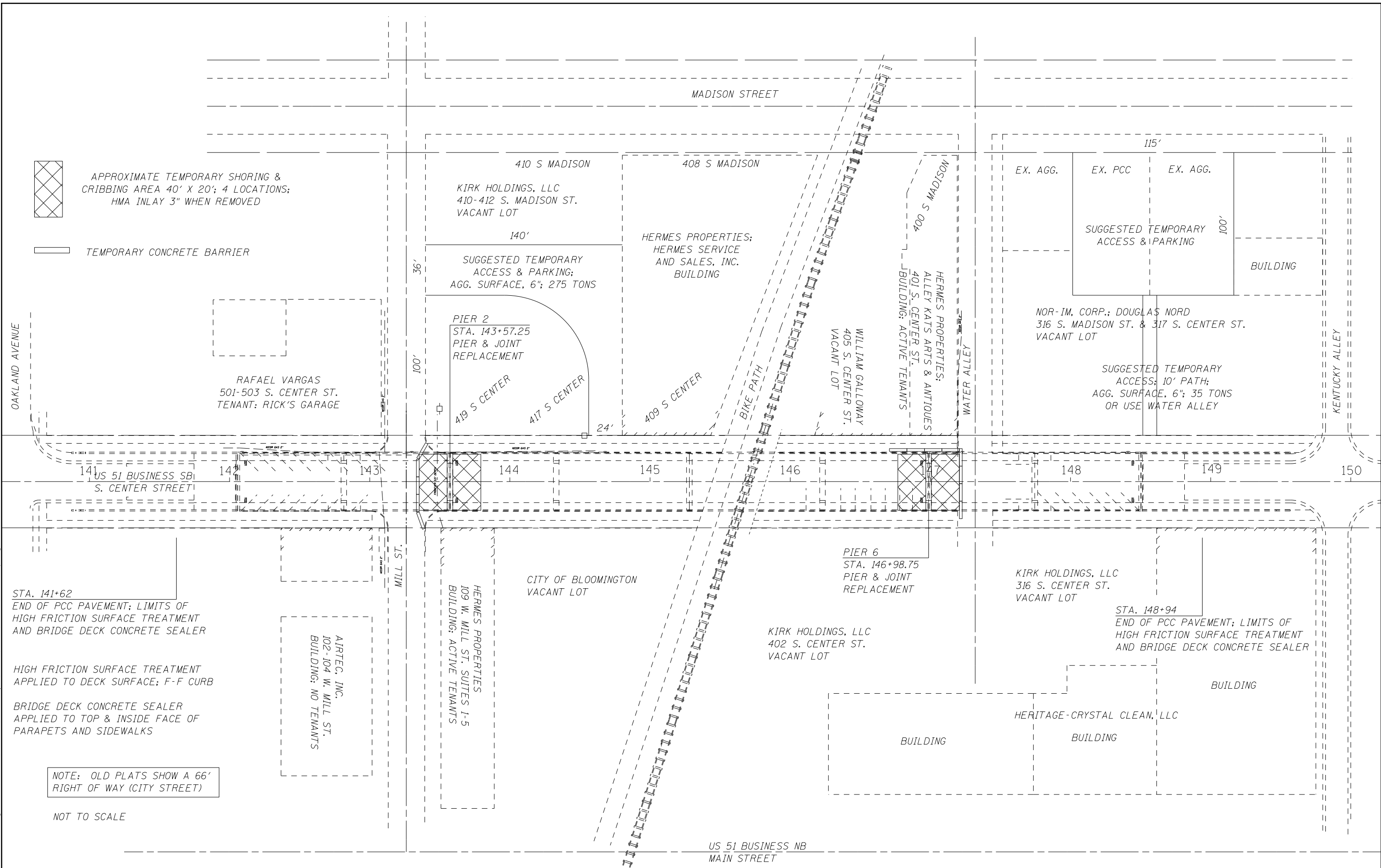
tjb 6/1/2018


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERALL AERIAL VIEW WITH GENERAL COMMENTS			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	8
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



 APPROXIMATE TEMPORARY SHORING & CRIBBING AREA 40' X 20'; 4 LOCATIONS; HMA INLAY 3" WHEN REMOVED

 TEMPORARY CONCRETE BARRIER

OAKLAND AVENUE

MADISON STREET

410 S MADISON
KIRK HOLDINGS, LLC
410-412 S. MADISON ST.
VACANT LOT

408 S MADISON
HERMES PROPERTIES;
HERMES SERVICE
AND SALES, INC.
BUILDING

115'
EX. AGG. EX. PCC EX. AGG.
SUGGESTED TEMPORARY
ACCESS & PARKING
100'
BUILDING

NOR-IM, CORP.; DOUGLAS NORD
316 S. MADISON ST. & 317 S. CENTER ST.
VACANT LOT

SUGGESTED TEMPORARY
ACCESS; 10' PATH;
AGG. SURFACE, 6"; 35 TONS
OR USE WATER ALLEY

RAFAEL VARGAS
501-503 S. CENTER ST.
TENANT: RICK'S GARAGE

140'
SUGGESTED TEMPORARY
ACCESS & PARKING;
AGG. SURFACE, 6"; 275 TONS

PIER 2
STA. 143+57.25
PIER & JOINT
REPLACEMENT

HERMES PROPERTIES;
ALLEY KATS ARTS & ANTIQUES
401 S. CENTER ST.
BUILDING; ACTIVE TENANTS

WILLIAM GALLOWAY
405 S. CENTER ST.
VACANT LOT

400 S MADISON
HERMES PROPERTIES;
ALLEY KATS ARTS & ANTIQUES
401 S. CENTER ST.
BUILDING; ACTIVE TENANTS

WATER ALLEY

KENTUCKY ALLEY

141 142 143 144 145 146 148 149 150

US 51 BUSINESS SB
S. CENTER STREET

STA. 141+62
END OF PCC PAVEMENT; LIMITS OF
HIGH FRICTION SURFACE TREATMENT
AND BRIDGE DECK CONCRETE SEALER

HIGH FRICTION SURFACE TREATMENT
APPLIED TO DECK SURFACE; F-F CURB

BRIDGE DECK CONCRETE SEALER
APPLIED TO TOP & INSIDE FACE OF
PARAPETS AND SIDEWALKS

AIRTEC, INC.
102-104 W. MILL ST.
BUILDING; NO TENANTS

HERMES PROPERTIES
109 W. MILL ST. SUITES 1-5
BUILDING; ACTIVE TENANTS

CITY OF BLOOMINGTON
VACANT LOT

KIRK HOLDINGS, LLC
402 S. CENTER ST.
VACANT LOT

PIER 6
STA. 146+98.75
PIER & JOINT
REPLACEMENT

KIRK HOLDINGS, LLC
316 S. CENTER ST.
VACANT LOT

STA. 148+94
END OF PCC PAVEMENT; LIMITS OF
HIGH FRICTION SURFACE TREATMENT
AND BRIDGE DECK CONCRETE SEALER

HERITAGE-CRYSTAL CLEAN, LLC

BUILDING

BUILDING

BUILDING

NOTE: OLD PLATS SHOW A 66'
RIGHT OF WAY (CITY STREET)

NOT TO SCALE

US 51 BUSINESS NB
MAIN STREET

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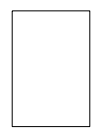
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OVERALL PLAN VIEW WITH TEMPORARY SHORING & CRIBBING AREA			
SCALE:	SHEET 1	OF 1	SHEETS
STA.	TO STA.		

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CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



REMOVAL LIMITS AROUND PIER COLUMNS
TO ACCESS PIER FOOTING
SEE PIER TYPICALS & DETAILS



APPROXIMATE TEMPORARY SHORING &
CRIBBING AREA 40' X 20'; 4 LOCATIONS;
HMA INLAY 3" WHEN REMOVED



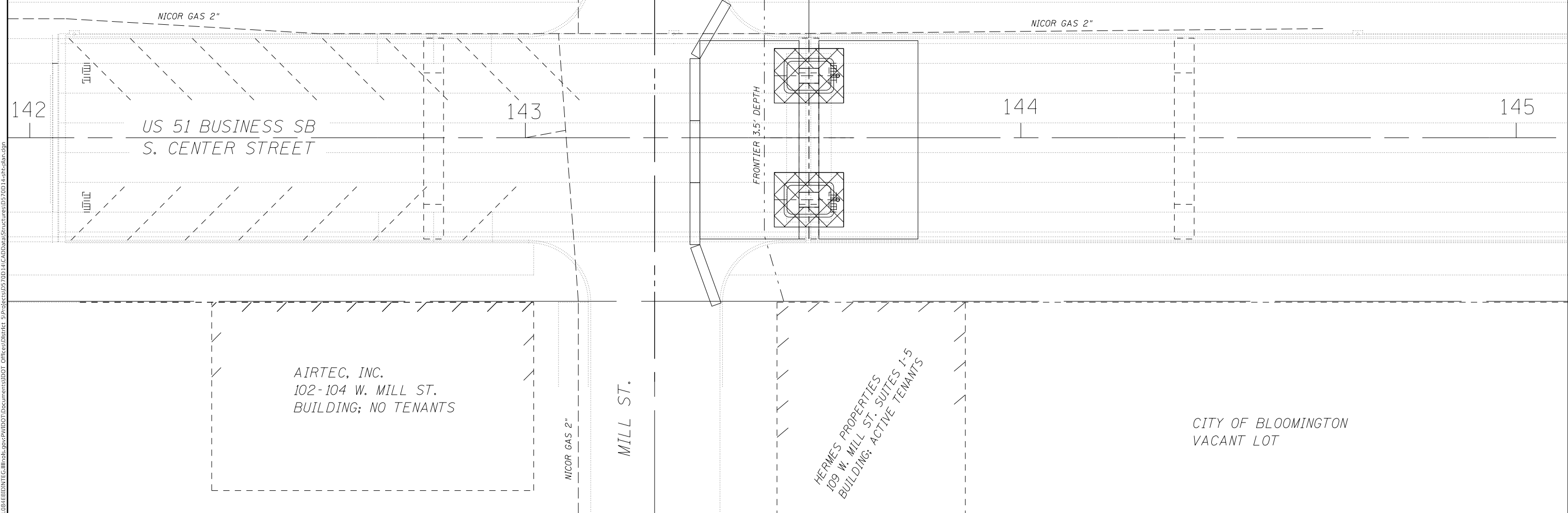
TEMPORARY CONCRETE BARRIER

RAFAEL VARGAS
501-503 S. CENTER ST.
TENANT: RICK'S GARAGE

PIER 2
STA. 143+57.25
PIER & JOINT
REPLACEMENT

SUGGESTED TEMPORARY
ACCESS & PARKING;
AGG. SURFACE, 6"; 275 TONS

HERMES PROPERTIES;
HERMES SERVICE
AND SALES, INC.
BUILDING



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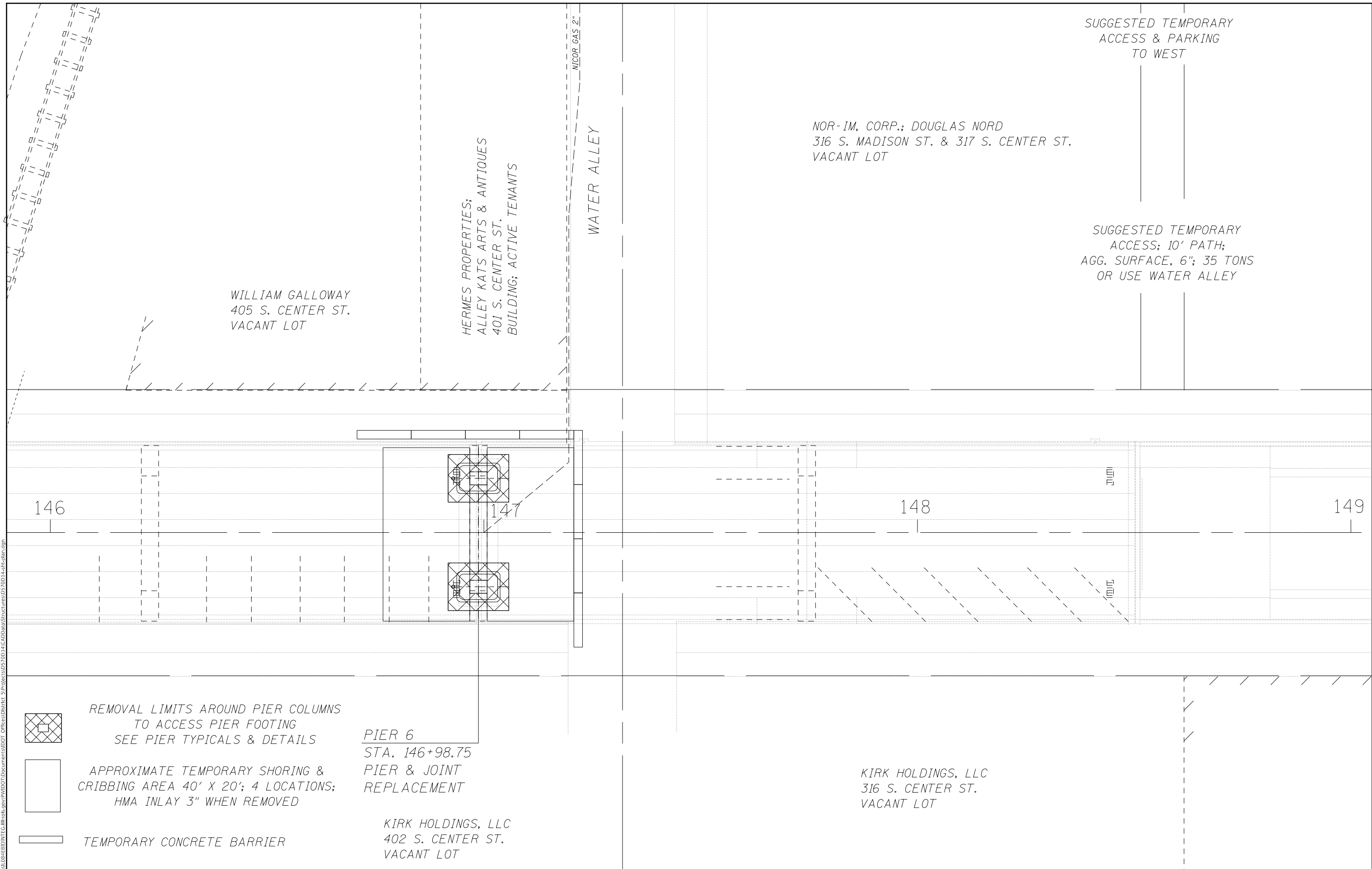
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
PIER 2 WORK AREA**

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

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730	(61Z-1) BRR	MCLEAN	51	10
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

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 DESIGNED BY: \\DESIGNEDBY
 PLOT DATE: \\PLOTDATE



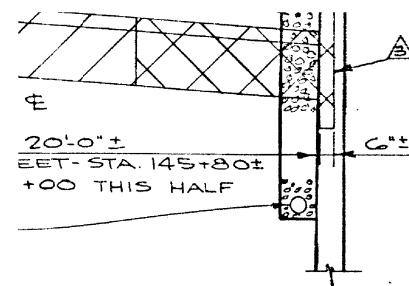
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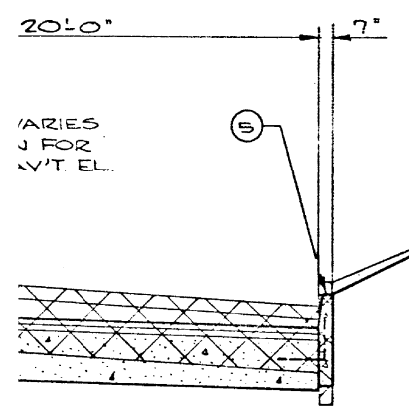
PLAN VIEW
PIER 6 WORK AREA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	11
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



JS.
1



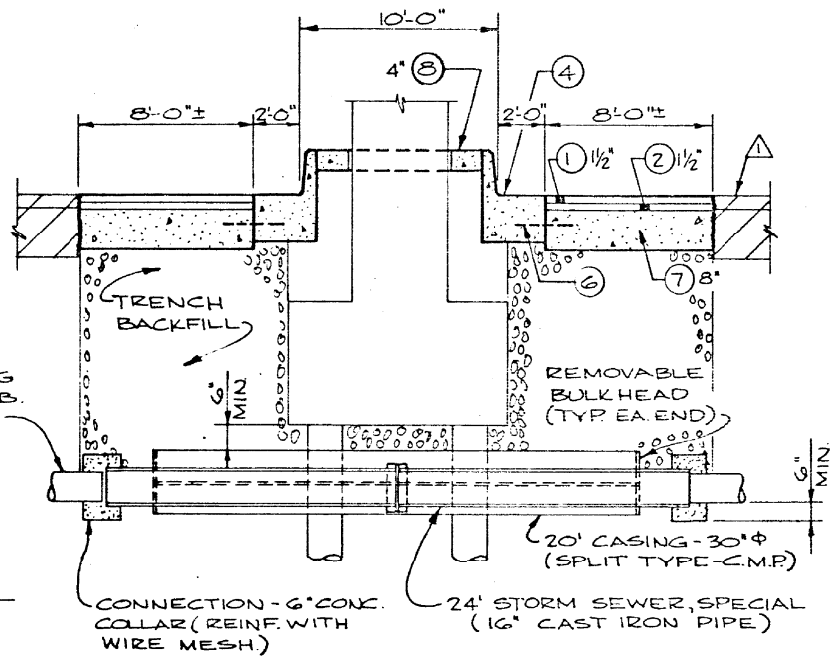
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PROPOSED

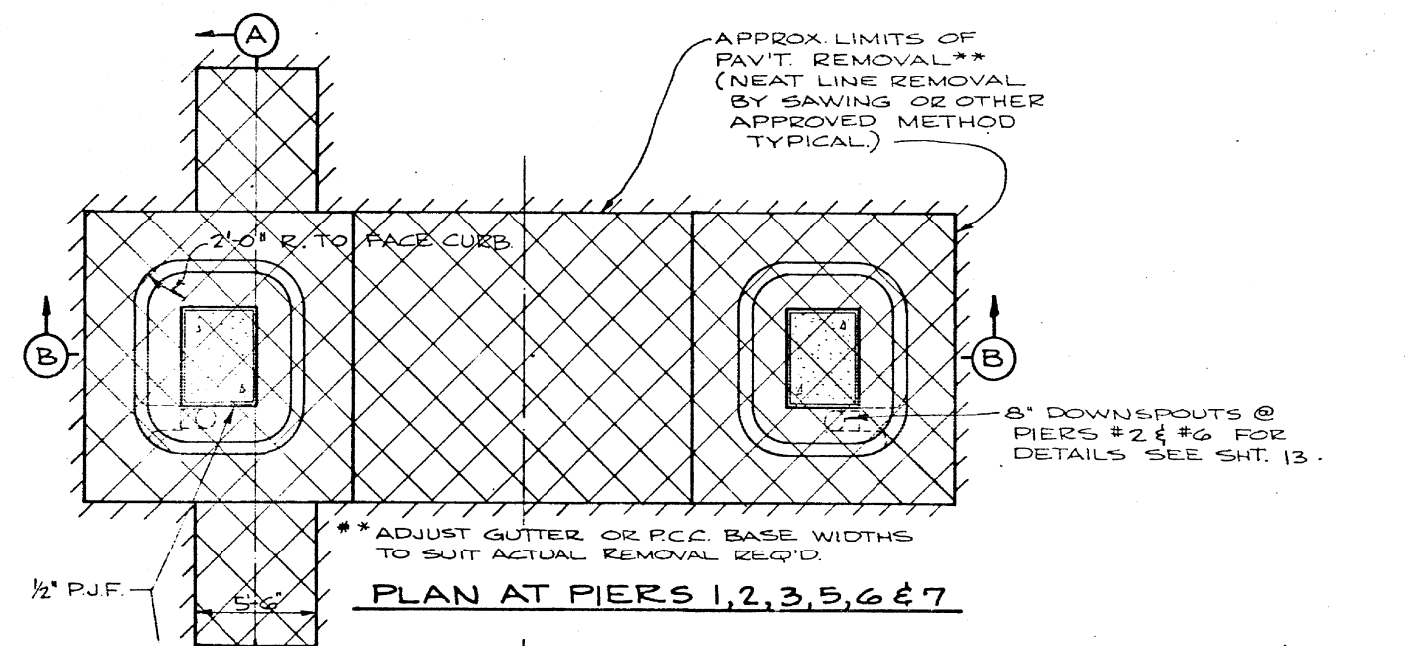
- ① BITUM. CONC. SURFACE CRSE. CL. I-168 LB/SQ. YD.
- ② BITUM. CONC. BINDER CRSE. -168 LB/SQ. YD.
- ③ COMB. CONC. CURB & GUTTER, TYPE B-6.12.
- ④ COMB. CONC. CURB & GUTTER, TYPE B-9.24
- ⑤ CONC. CURB, TYPE B.
- ⑥ #4 TIE BARS 2'-6" LONG @ 2'-6" CENTERS
- ⑦ P.C.C. BASE COURSE (THICKNESS SHOWN ON TYPICAL SECTIONS)
- ⑧ P.C.C. SIDEWALK (THICKNESS SHOWN ON TYPICAL SECTIONS.)
- ⑨ LONGITUDINAL METAL JOINT.

EXISTING

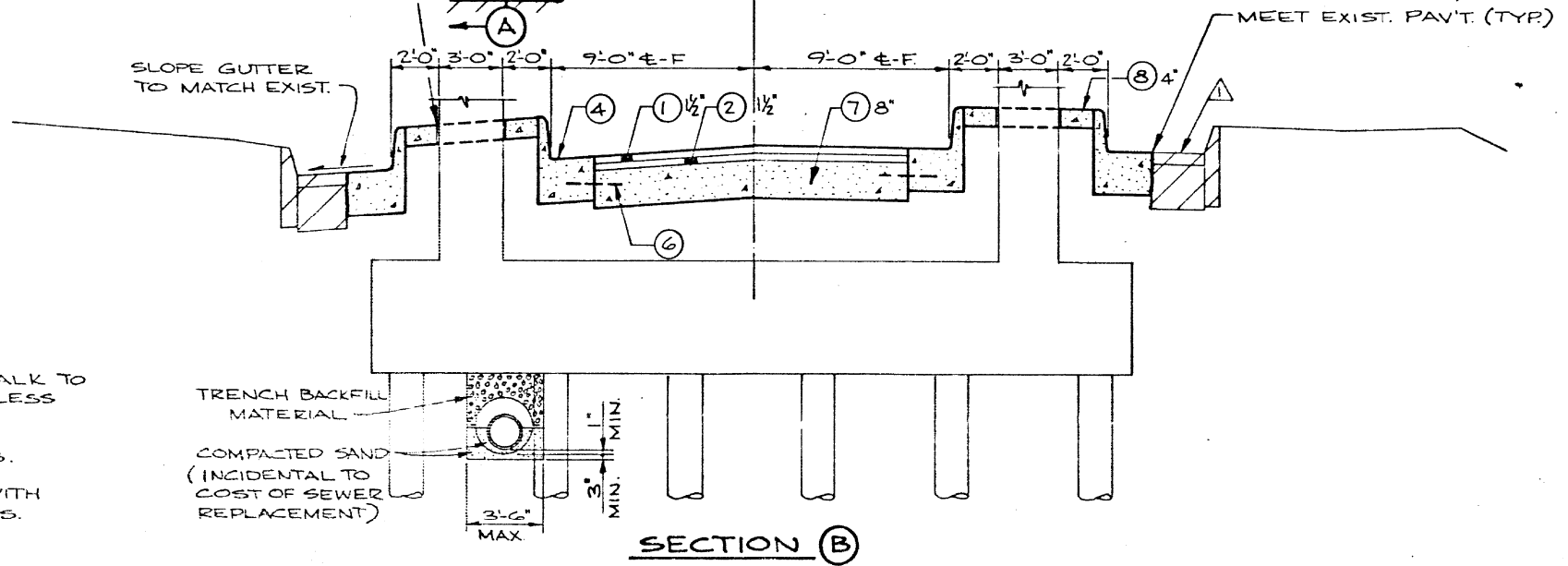
- △ EXISTING PAVEMENT
- △ EXISTING P.C.C. SIDEWALK TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- △ EXISTING STONE CURB.
- △ EXISTING CONC. CURB WITH 1/2" Φ TIE BARS @ 2'-6" CTS.



SECTION A



PLAN AT PIERS 1, 2, 3, 5, 6 & 7



SECTION B

THE NOMINAL THICKNESSES FOR SUBBASE GRANULAR MATERIAL; BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

PROTECTIVE COAT SHALL ALSO BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURBS, PARAPETS AND SIDEWALK WITHIN LIMITS OF RETAINING WALLS.

EXISTING STREET CONSTRUCTION

FEET TO STREET	STATION TO STATION	CONSTRUCTION					TOTAL
		BRICK OR P.C.C. BASE	SAND	BRICK	FIN. BINDER & SURF. CRSE.		
WINNING - "BIG 4" RR	139+80.0 - 145+51.5	4'	—	1"	4"	2 1/2"	11 1/2"*
4" RR - END	145+51.5 - 151+40.0	—	5'	1"	4"	2 1/2"	12 1/2"

SEE "TYPICAL SECTION NO. 1" FOR CONSTRUCTION DETAILS OF WIDENED SECTIONS OF EXIST. PAV'T.

NOTE:

EXISTING STREET CONSTRUCTION TABULATION IS SHOWN ONLY FOR THE CONVENIENCE AND INFORMATION OF THE CONTRACTOR. IT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE DEPARTMENT, BUT IS NOT GUARANTEED.

TYPICAL SECTIONS & DETAILS

MODEL: 4-MODELNAME; FILE: NAME; PROJECT: 70D14; CONTRACT: 70D14; SHEET: 12

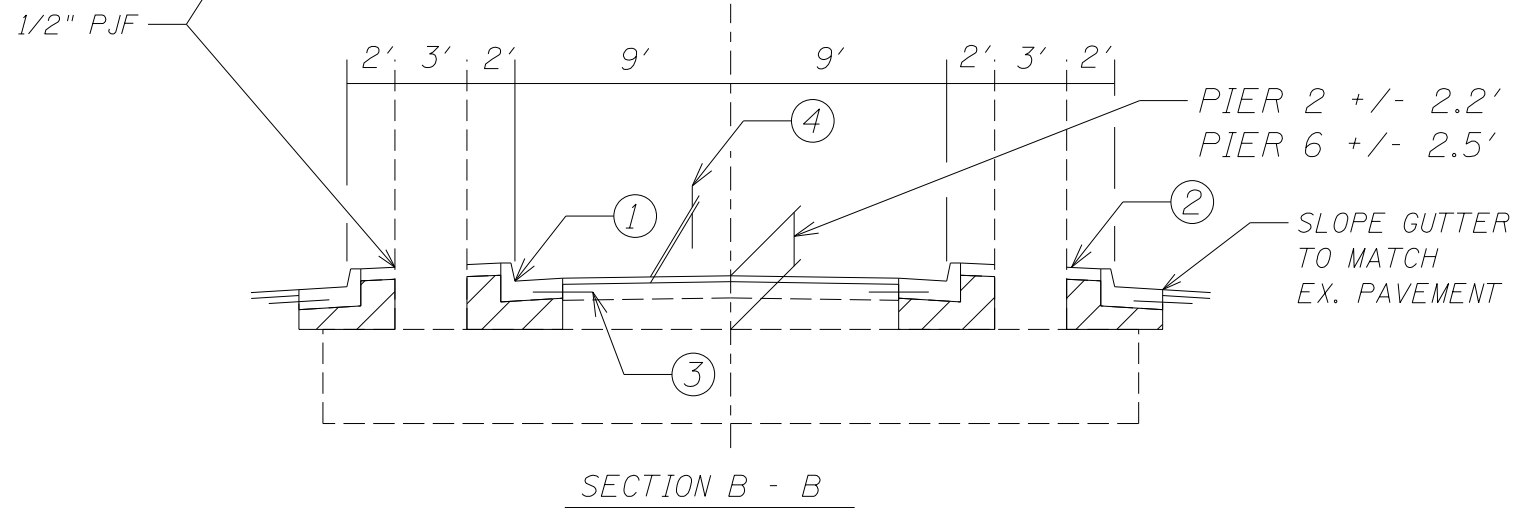
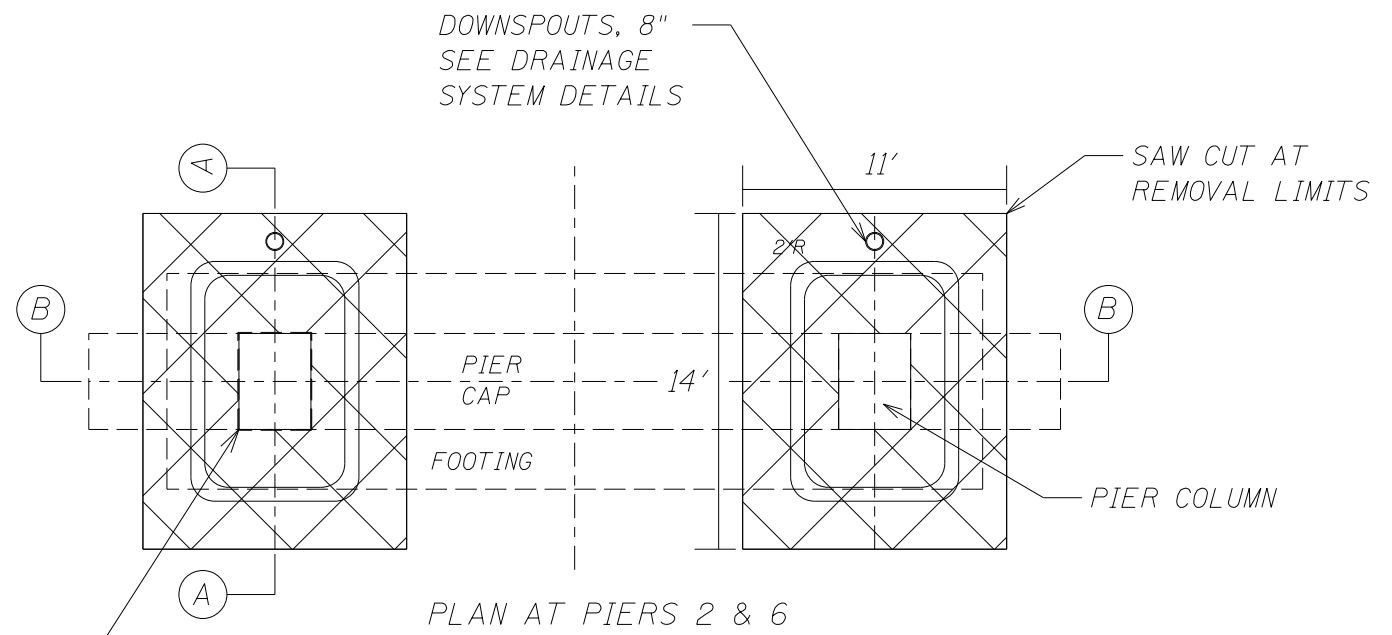
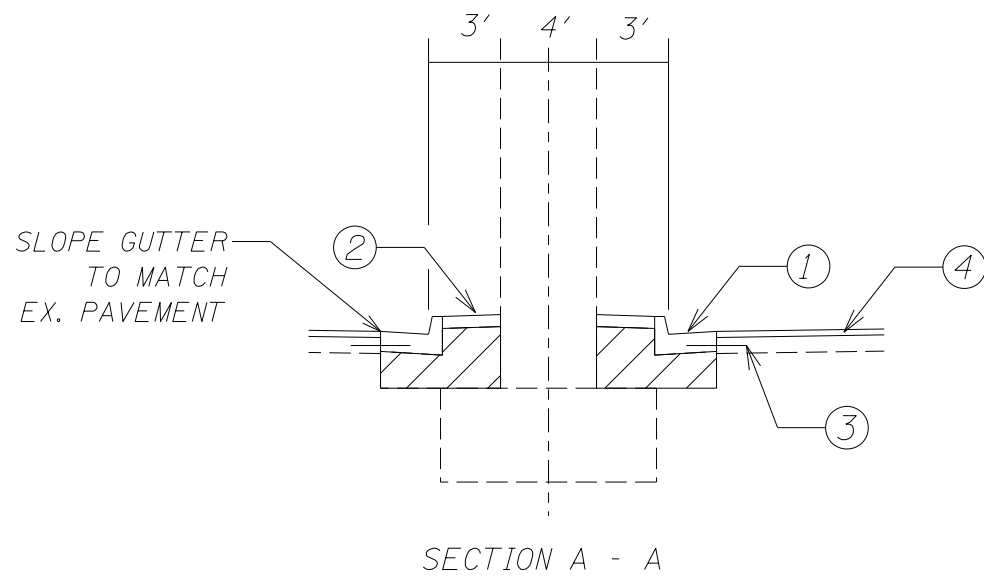
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DRAWN -	REVISED -	
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PLOT DATE = 1/24/2019	DATE - 6/1/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING PIER TYPICALS & DETAILS

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

F.A.P. RTE. 730	SECTION (61Z-1) BRR	COUNTY MCLEAN	TOTAL SHEETS 51	SHEET NO. 12
			CONTRACT NO. 70D14	
ILLINOIS FED. AID PROJECT				



PROPOSED ITEMS

- ① COMB. CONC. CURB & GUTTER, TYPE B-9.24
REMOVE & REPLACE
32.5 FT PER PIER COLUMN = 130.0 FT
- ② PCC SIDEWALK, 6"; REMOVE & REPLACE
40.0 SQ FT PER PIER COLUMN = 160.0 SQ FT
MAY BE MONOLITHIC WITH CURB & GUTTER
- ③ NO. 4 TIE BARS 2'-6" LONG @ 2'-6" CTS.
10.0 EACH PER PIER COLUMN = 40.0 EACH
COST INCLUDED W/ CCC & G, TY. B-9.24
- ④ HMA SURFACE REMOVAL AND REPLACEMENT, 3"
222.5 SQ YD & 37.5 TON PER PIER

SUBBASE GRANULAR MATERIAL, TYPE A
9.0 CU YDS PER PIER COLUMN = 36.0 CU YDS
STRUCTURE EXCAVATION = 36.0 CU YDS

MODEL: \\MODELNAME
FILE NAME: \\FILENAME
PROJECT: \\PROJECT
DRAWING: \\DRAWING
DATE: 1/24/2019

USER NAME = brandenburgtj	DESIGNED - TJB	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/1/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED PIER TYPICALS & DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	13
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	

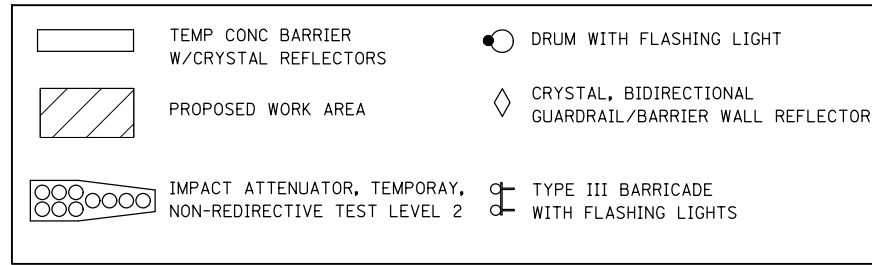
NOTES:

HIGHWAY STANDARD 701601 SHALL BE USED UNLESS NOTED.

USE W4-2R(O)-48 OR W4-2L(O)-48 SIGNS INSTEAD OF W21-I110-48 WHEN TEMPORARY BARRIER IS IN PLACE.

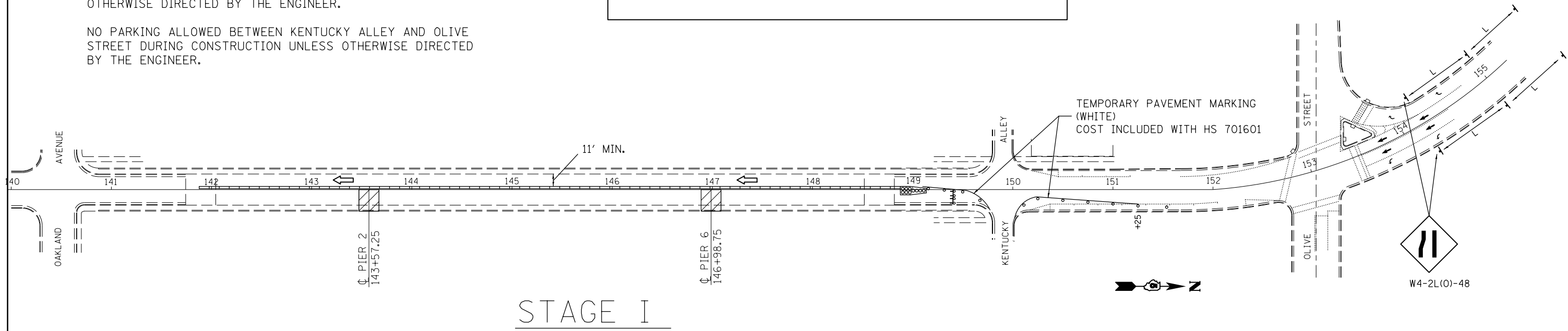
SIGN SPACING (L) SHALL BE PER HIGHWAY STANDARD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

NO PARKING ALLOWED BETWEEN KENTUCKY ALLEY AND OLIVE STREET DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	700.0
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1.0



STAGE I

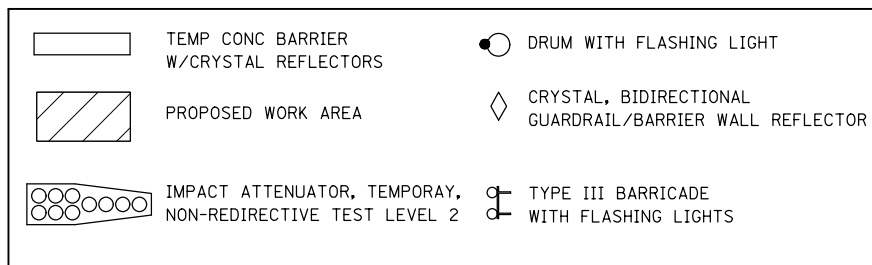
NOTES:

HIGHWAY STANDARD 701601 SHALL BE USED UNLESS NOTED.

USE W4-2R(O)-48 OR W4-2L(O)-48 SIGNS INSTEAD OF W21-I110-48 WHEN TEMPORARY BARRIER IS IN PLACE.

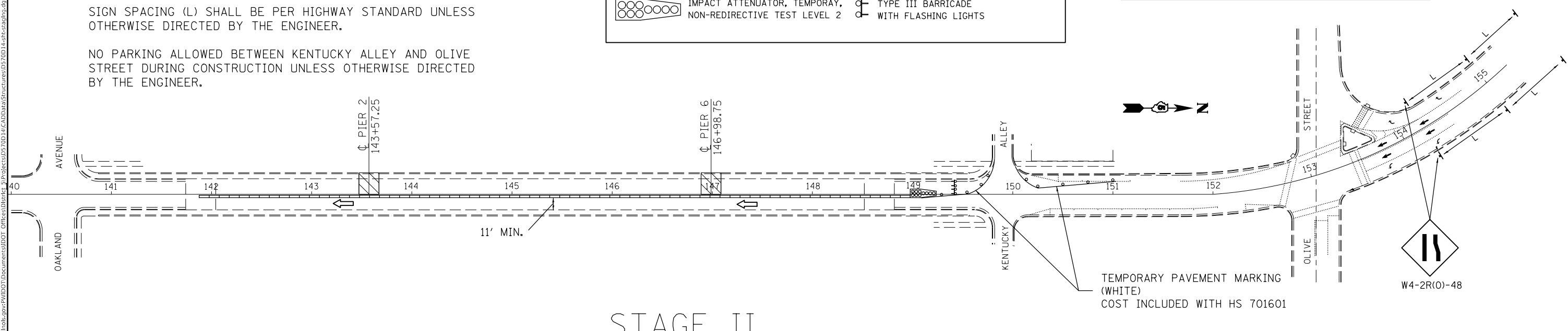
SIGN SPACING (L) SHALL BE PER HIGHWAY STANDARD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

NO PARKING ALLOWED BETWEEN KENTUCKY ALLEY AND OLIVE STREET DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



BILL OF MATERIALS

ITEM	UNIT	TOTAL
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	700.0
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1.0



STAGE II

MODEL: \\MODELNAME
FILE: \\FILENAME
PROJECT: \\PROJECTNAME
DRAWING: \\DRAWINGNAME
DATE: 1/24/2019

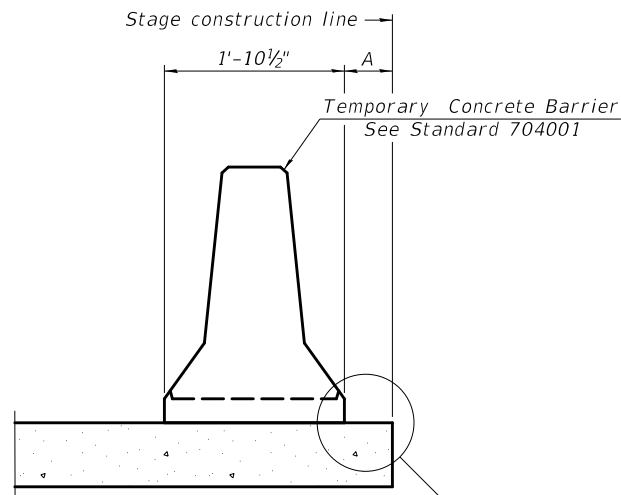
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PLOT DATE = 1/24/2019	DATE - 6/11/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING AND TRAFFIC CONTROL DETAILS

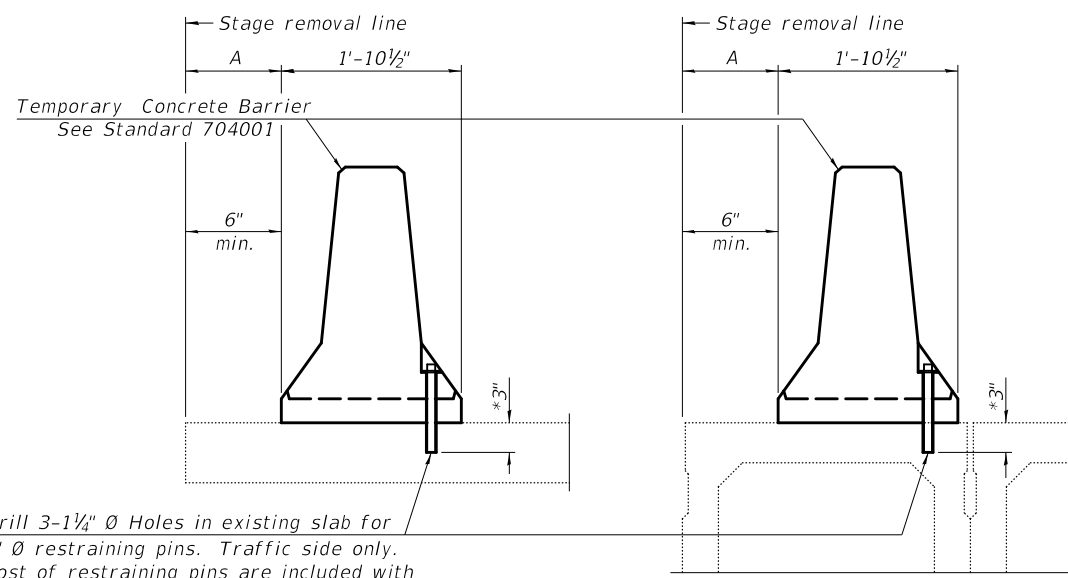
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	14
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

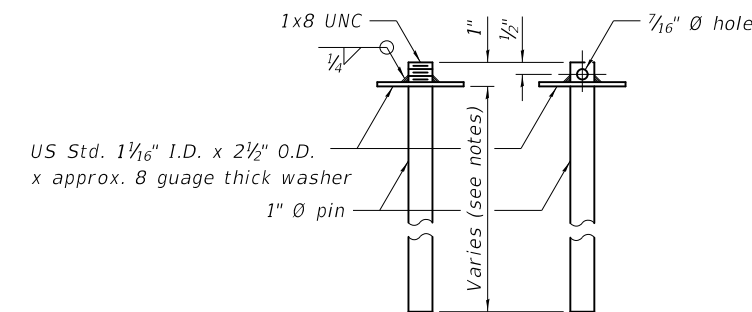
NEW SLAB OR NEW DECK BEAM



Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

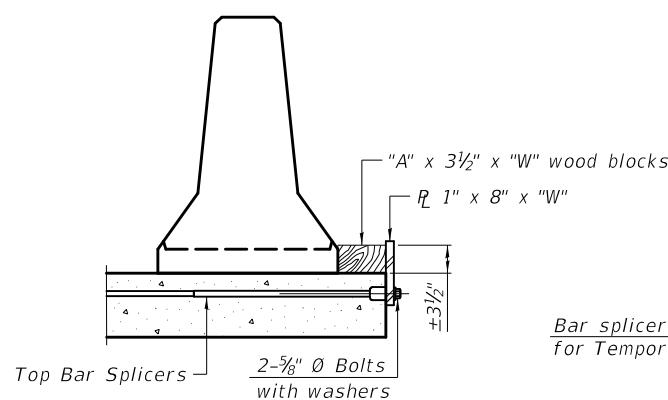
EXISTING SLAB

EXISTING DECK BEAM

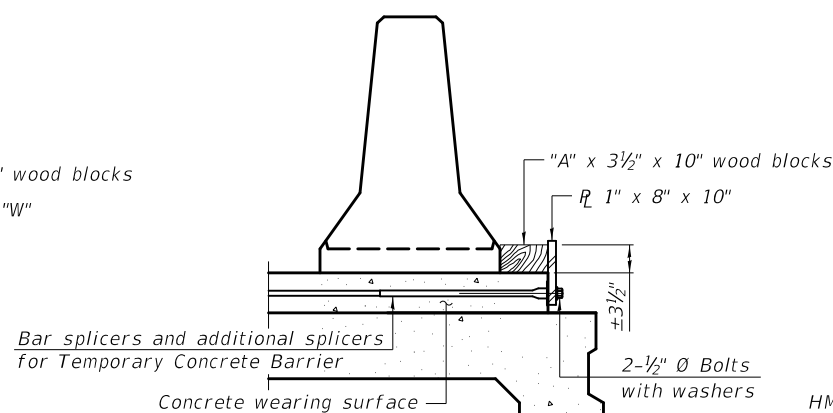


RESTRAINING PIN

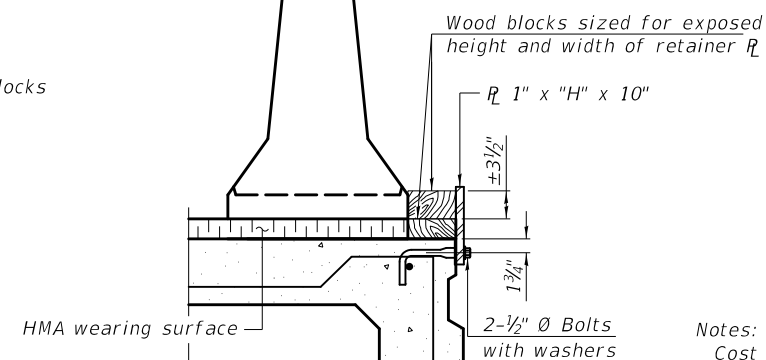
SECTIONS THRU SLAB OR DECK BEAM



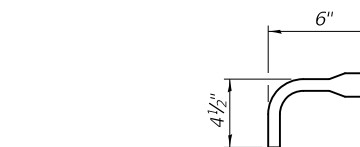
DETAIL I



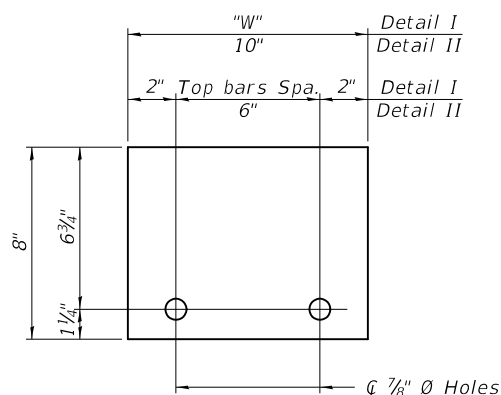
DETAIL II



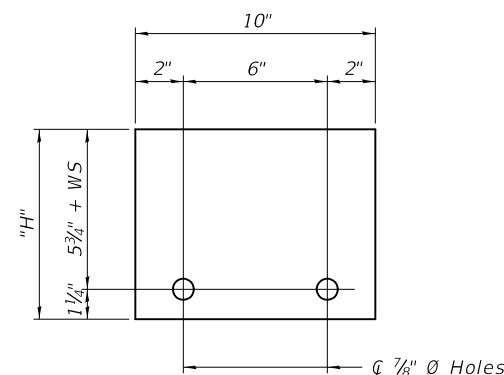
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

8-11-2017

USER NAME = brandenburgtj	DESIGNED - TJB	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/6/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

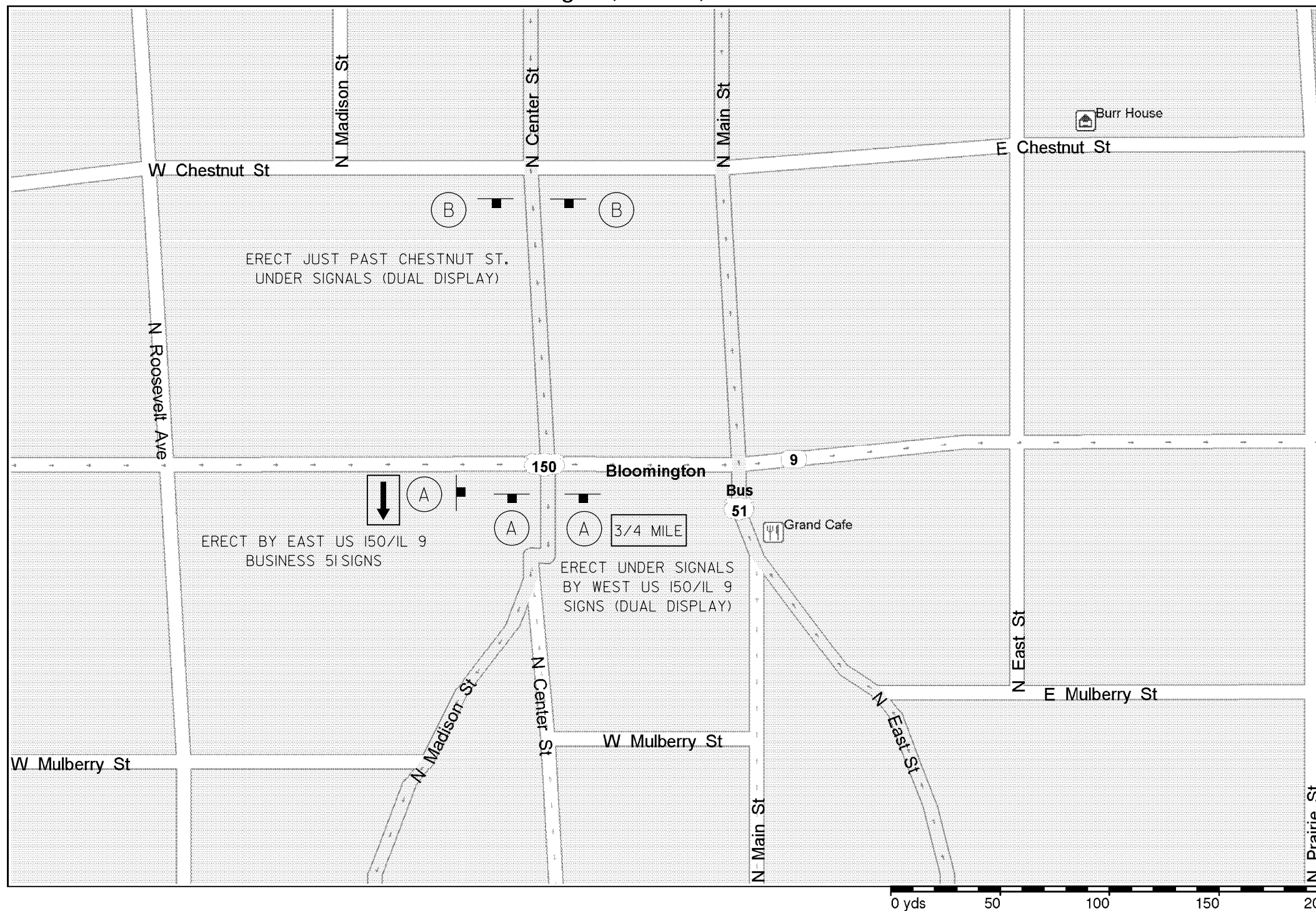
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 057-6301**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	15
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

MODEL: \\MODELNAME
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Bloomington, Illinois, United States



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 DRAWING: \\DRAWINGNAME
 DATE: \\DATE
 USER: \\USER
 TITLE: \\TITLE

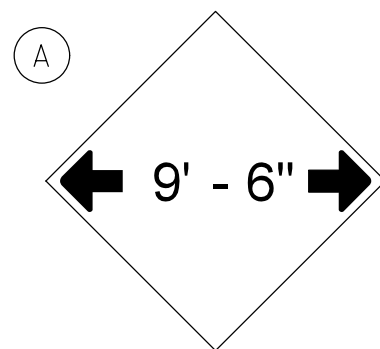
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PLOT DATE = 1/24/2019	DATE - 6/6/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING

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

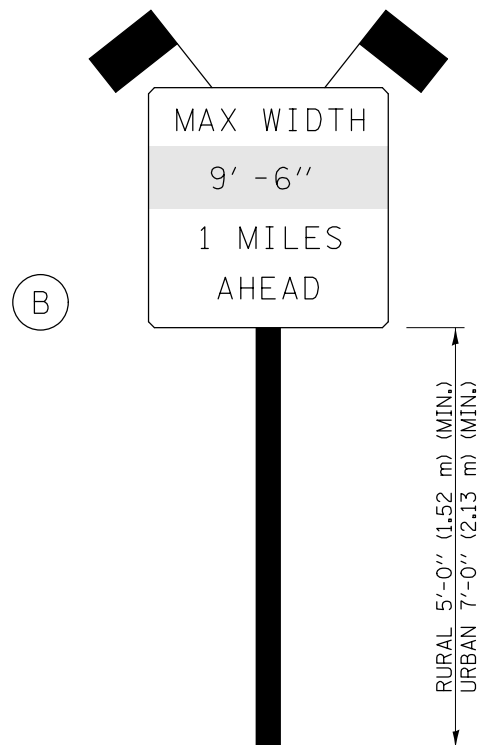
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730	(61Z-1) BRR	MCLEAN	51	16
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



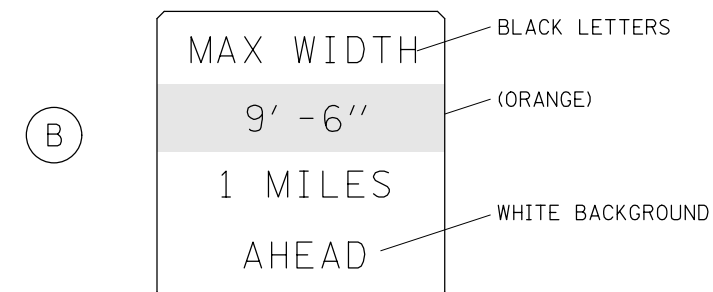
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	PLOT DATE = 1/24/2019	DATE -	REVISED - 03/11 KJT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING

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

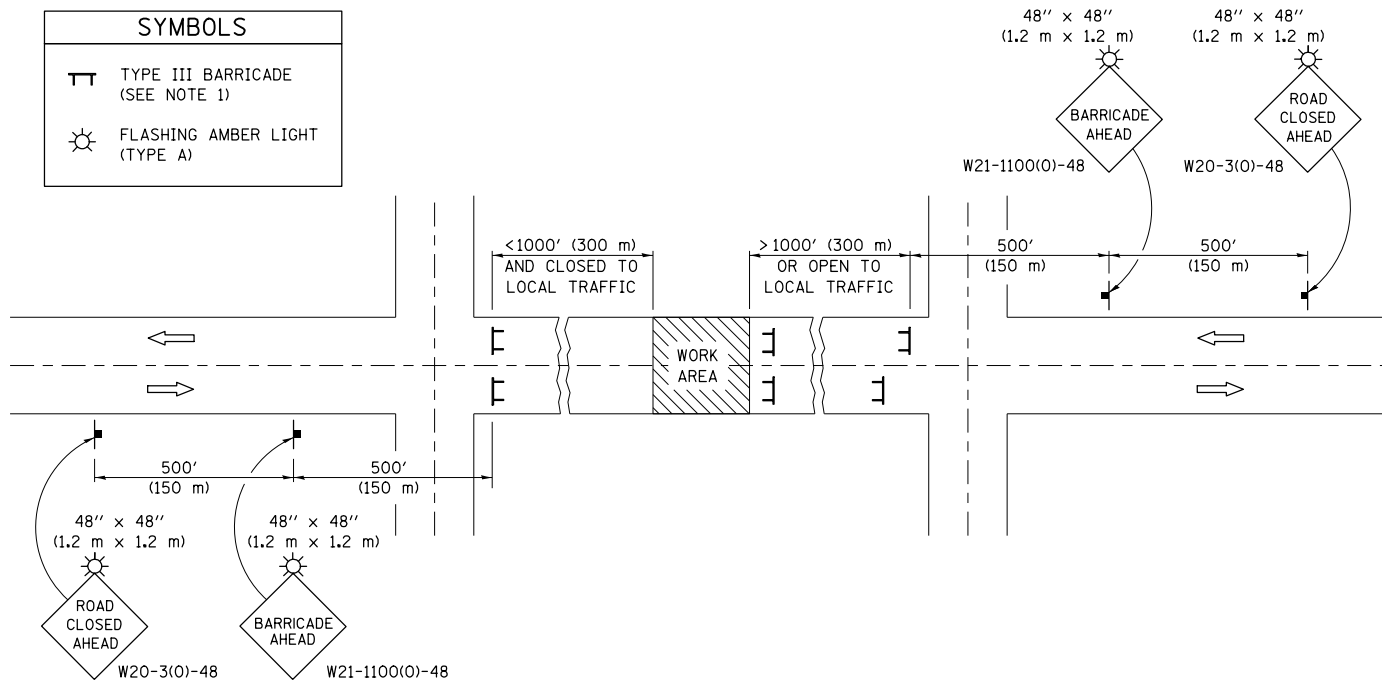
DISTRICT 5 DETAIL NO. X7200201

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	17
				CONTRACT NO. 70D14
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

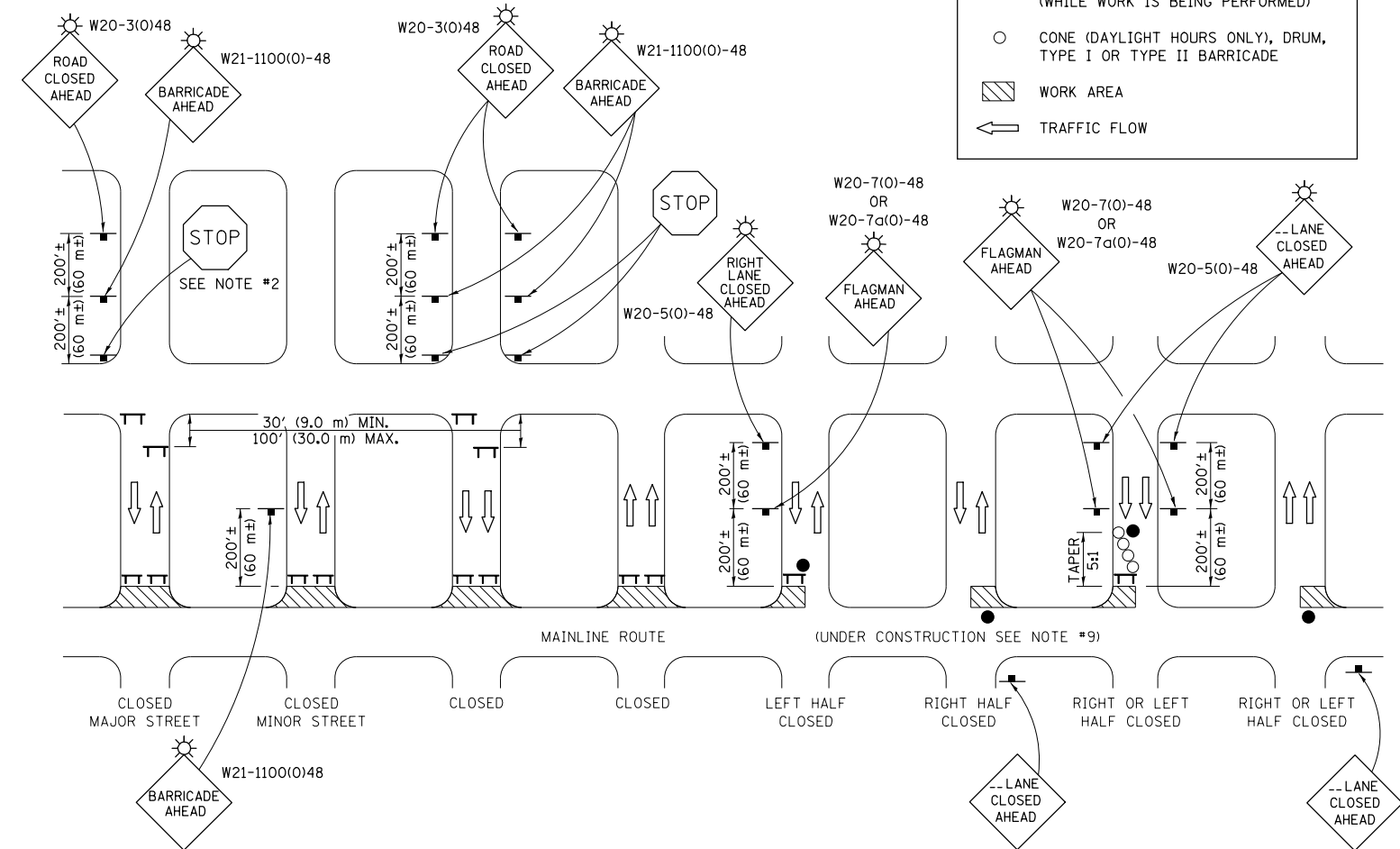
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONES (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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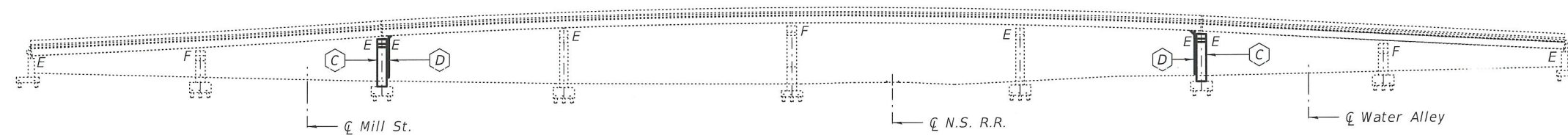
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD/STREET CLOSURES)

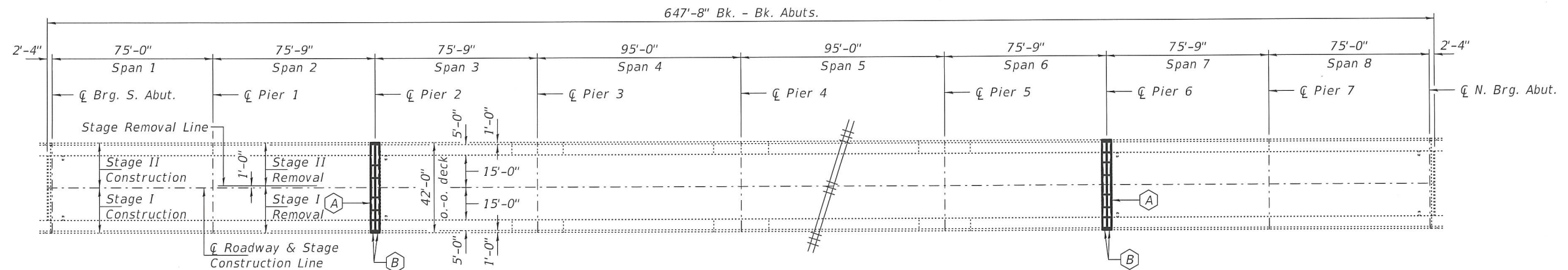
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7020000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	18
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

- (A) - Remove and Replace Expansion Joints at Piers 2 & 6.
- (B) - Remove and Re-install Existing Bearings at Piers 2 & 6.
- (C) - Remove and Replace Pier Columns and Cap.
- (D) - Remove and re-install Bridge Drainage System.

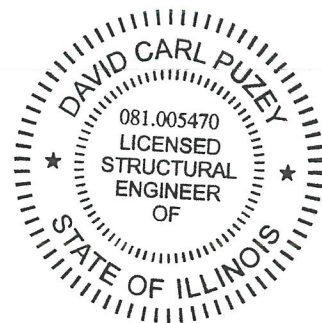
GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 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.
 Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.
 Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	36
Concrete Removal	Cu. Yd.	80.6
Concrete Superstructure	Cu. Yd.	13.9
Concrete Structures	Cu. Yd.	67.9
Reinforcement Bars, Epoxy Coated	Pound	15940
Remove and Re-install Existing Bearings	Each	32
Bar Splicers	Each	32
Mechanical Splicers	Each	80
Preformed Joint Strip Seal	Foot	80
* Protective Coat	Sq. Yd.	42
Temporary Shoring and Cribbing	Each	4
Bridge Drainage System	L. Sum	1
** Bridge Deck Concrete Sealer	Sq. Ft.	2055
Anchor Bolts, 1"Ø	Each	64
Furnishing & Erecting Structural Steel	Pound	610
*** High Friction Surface Treatment for Bridge Deck Surfaces	Sq. Yd.	2440
*** High Friction Surface Treatment Crack Filling	Foot	2202

* To be applied on new concrete at joints only.
 ** To be applied to the top and inside vertical faces of parapets and sidewalks.
 *** To be applied to deck surface and front face of curb.



EXPIRES 11-30-2020

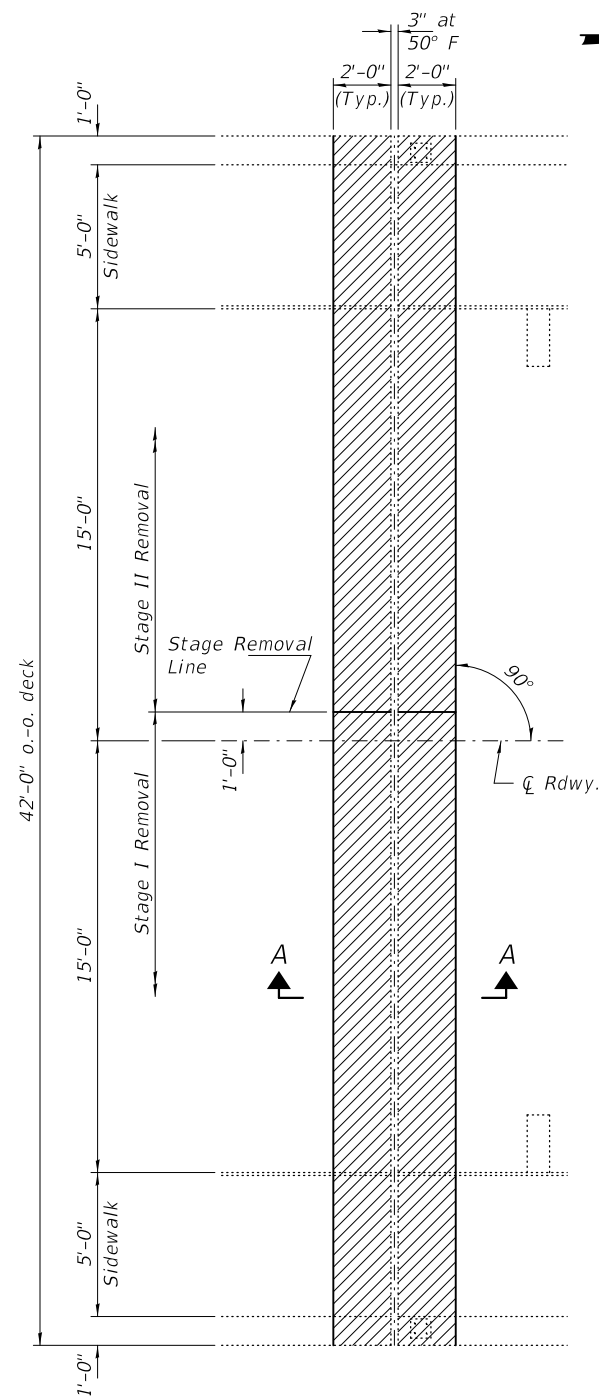
DESIGNED <i>Planned Salik</i>	EXAMINED <i>Thing A. Abot</i>	DATE - MARCH 25, 2019
CHECKED <i>Car D. Patton</i>	ENGINEER OF STRUCTURAL SERVICES	
DRAWN <i>daburdell</i>	PASSED <i>Dr. Carl Puzey</i>	REVISED -
CHECKED <i>HSS/CDK</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 FAP RTE. 730 OVER MILL ST., WATER ALLEY & N.S. R.R.
 SN 057-6301

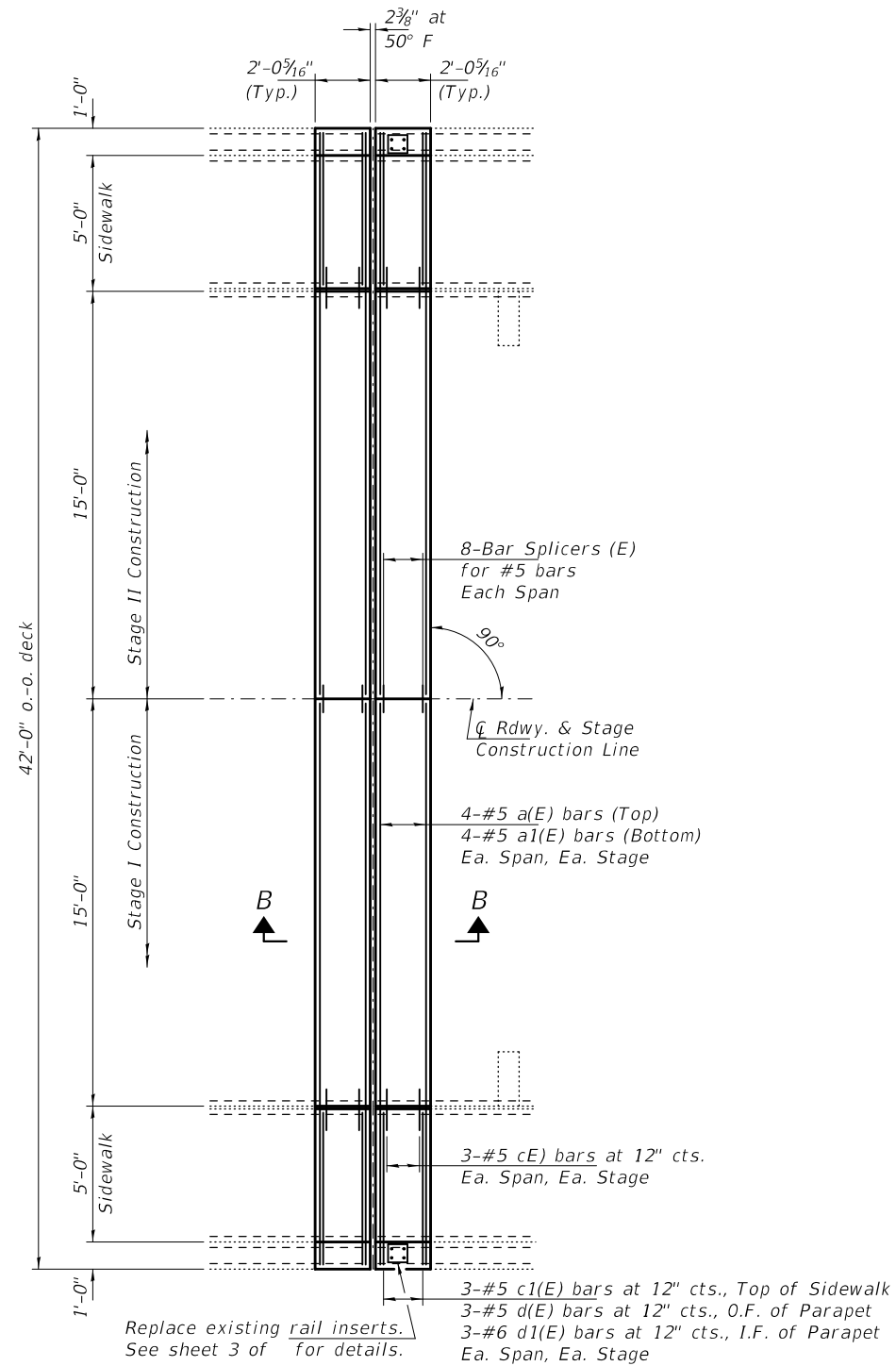
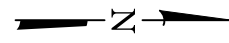
SHEET NO. 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	19
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	



CONCRETE REMOVAL PLAN

(Typ. Piers 2 & 6)
Pier 2 shown, Pier 6
similar by mirroring.



CONCRETE PLACEMENT PLAN

(Typ. Piers 2 & 6)
Pier 2 shown, Pier 6
similar by mirroring.

Notes:
See sheet 3 of 12 for Section Thru
Sidewalk, Section A-A and Section B-B.
See sheet 3 of 12 for d2(E) placement.

**BILL OF MATERIAL
(2 PIERS)**

Bar	No.	Size	Length	Shape
a(E)	32	#5	20'-6"	—
a1(E)	32	#5	19'-4"	—
c(E)	24	#5	2'-5"	└
c1(E)	24	#5	5'-7"	—
d(E)	24	#4	3'-10"	L
d1(E)	24	#6	3'-9"	L
d2(E)	8	#4	2'-1"	□
Concrete Removal			Cu. Yd.	13.9
Concrete Superstructure			Cu. Yd.	13.9
Bar Splicers			Each	32
Protective Coat			Sq. Yd.	42
Reinforcement Bars, Epoxy Coated			Pound	1740

DESIGNED - HSS
CHECKED - CDK
DRAWN - daburdell
CHECKED - HSS CDK

EXAMINED
PASSED
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

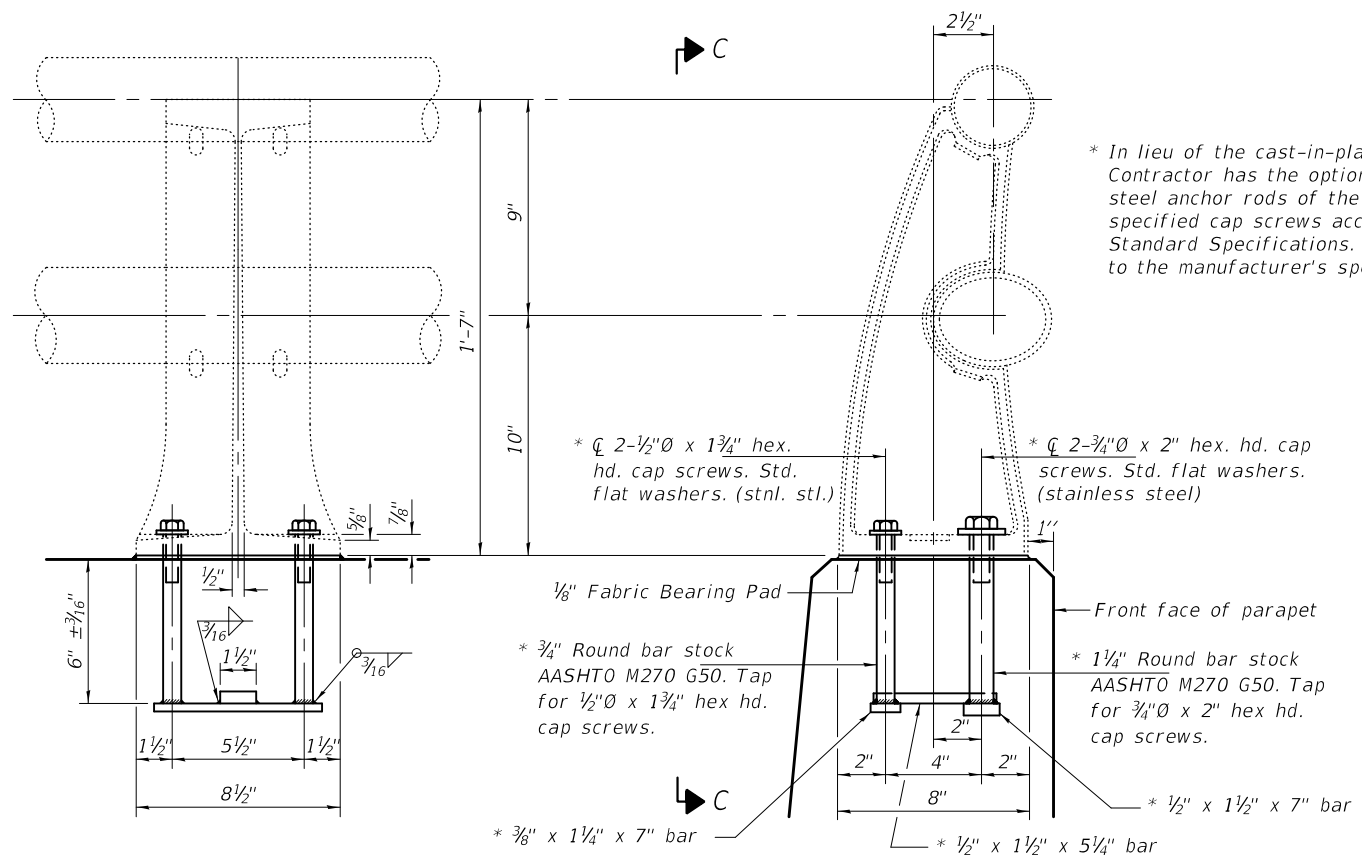
DATE - MARCH 25, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 057-6301

SHEET NO. 2 OF 12 SHEETS

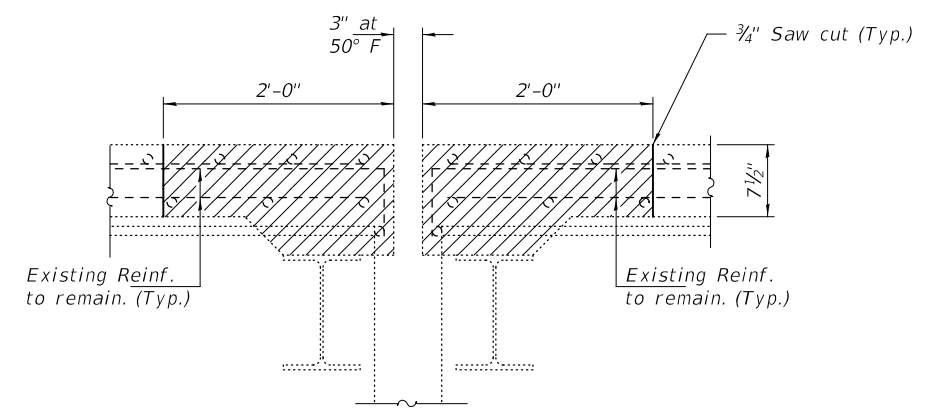
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	20
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



VIEW C-C

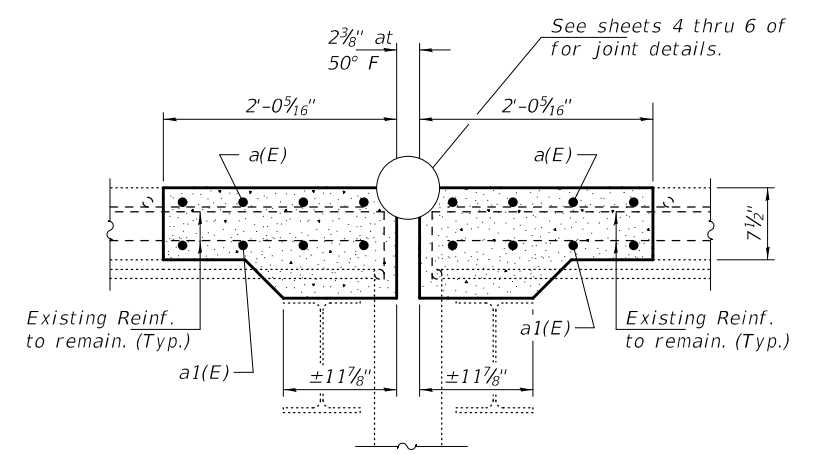
RAIL POST DETAILS

SECTION THRU RAIL POST

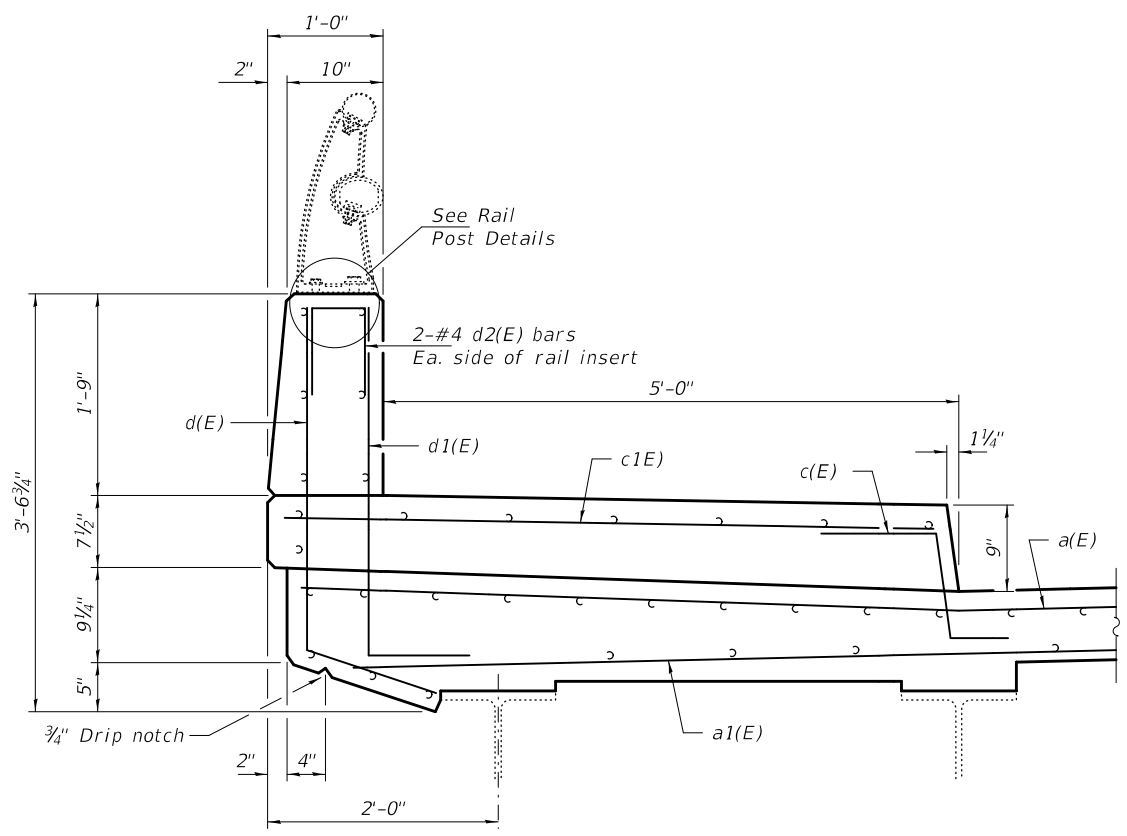


SECTION A-A

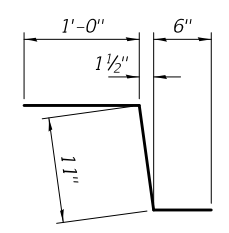
Hatched areas indicate Concrete Removal.



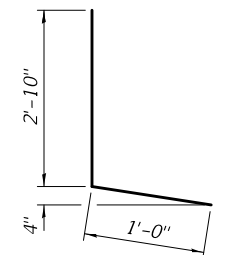
SECTION B-B



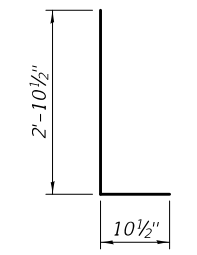
SECTION THRU SIDEWALK



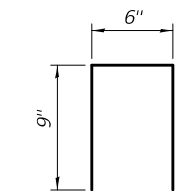
BAR c(E)



BAR d(E)

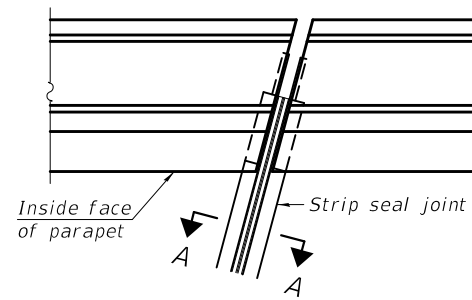


BAR d1(E)



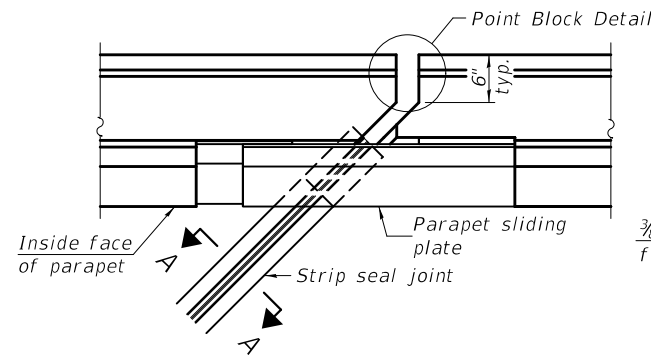
BAR d2(E)

DESIGNED - HSS	EXAMINED - <i>Timothy A. Daburdell</i>	DATE - MARCH 25, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAILS SN 057-6301	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - CDK	PASSED - <i>Carl Ringer</i>	REVISED -			730	(61Z-1)BRR	McLEAN	51	21	
DRAWN - <i>daburdell</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 70D14					
CHECKED - HSS CDK	ENGINEER OF STRUCTURAL SERVICES				SHEET NO. 3 OF 12 SHEETS					
					ILLINOIS FED. AID PROJECT					

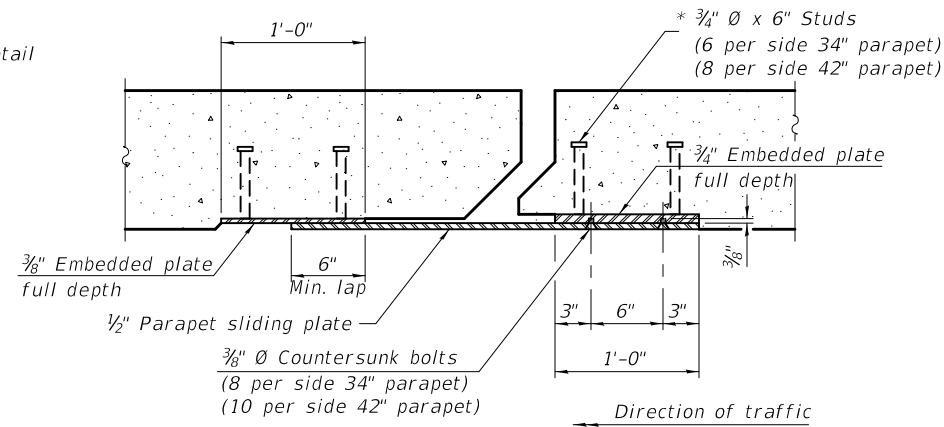


FOR SKEWS $\leq 30^\circ$

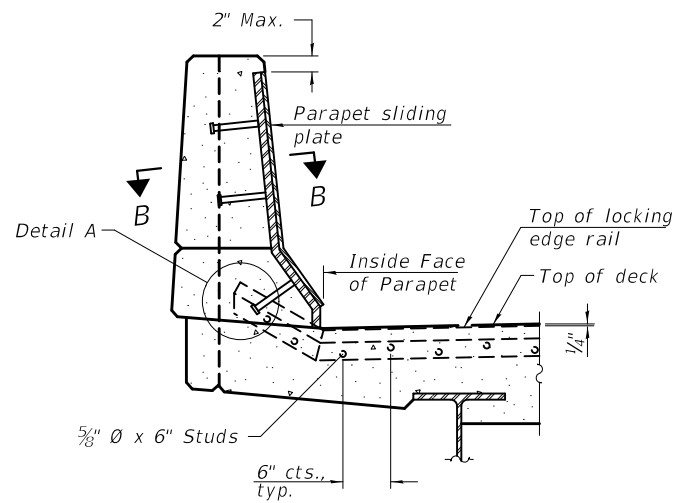
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

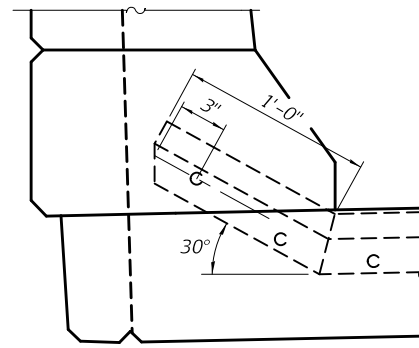


SECTION B-B

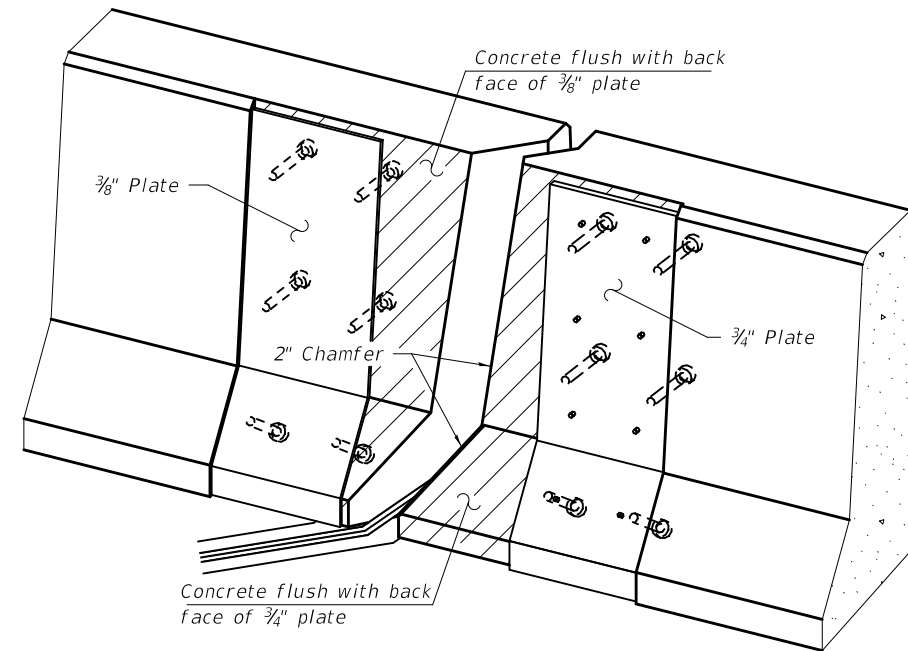


ELEVATION AT PARAPET

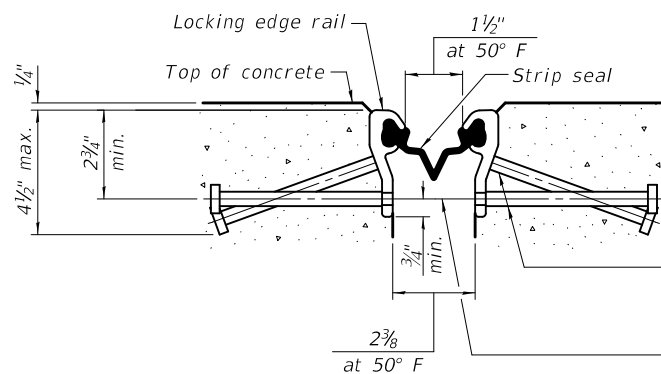
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



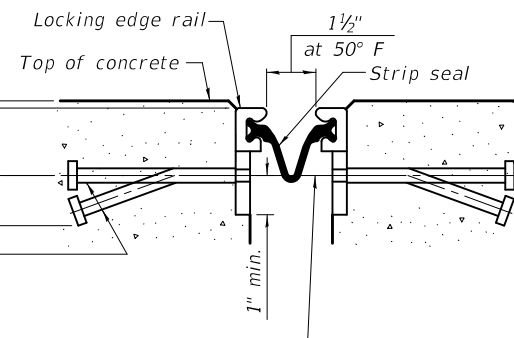
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

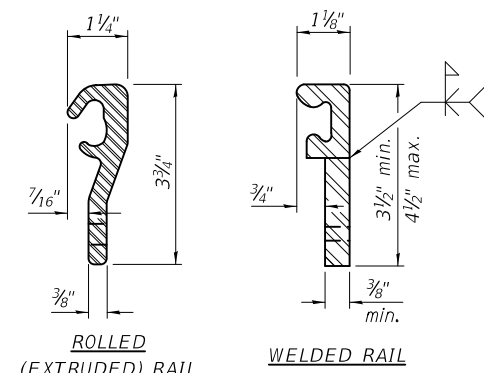
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

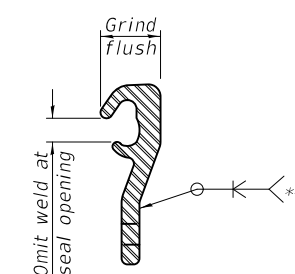


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	80

EJ-SS-S

8-11-17

DESIGNED - HSS	EXAMINED
CHECKED - CDK	PASSED
DRAWN - daburdell	
CHECKED - HSS CDK	

 ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 25, 2019
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
	REVISED -

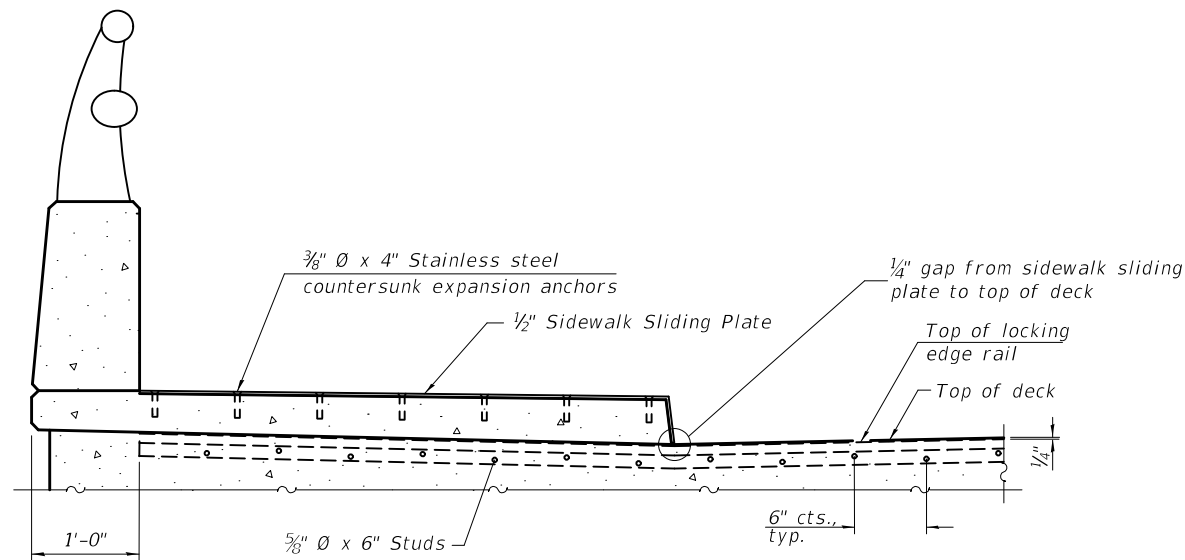
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK
SN 057-6301

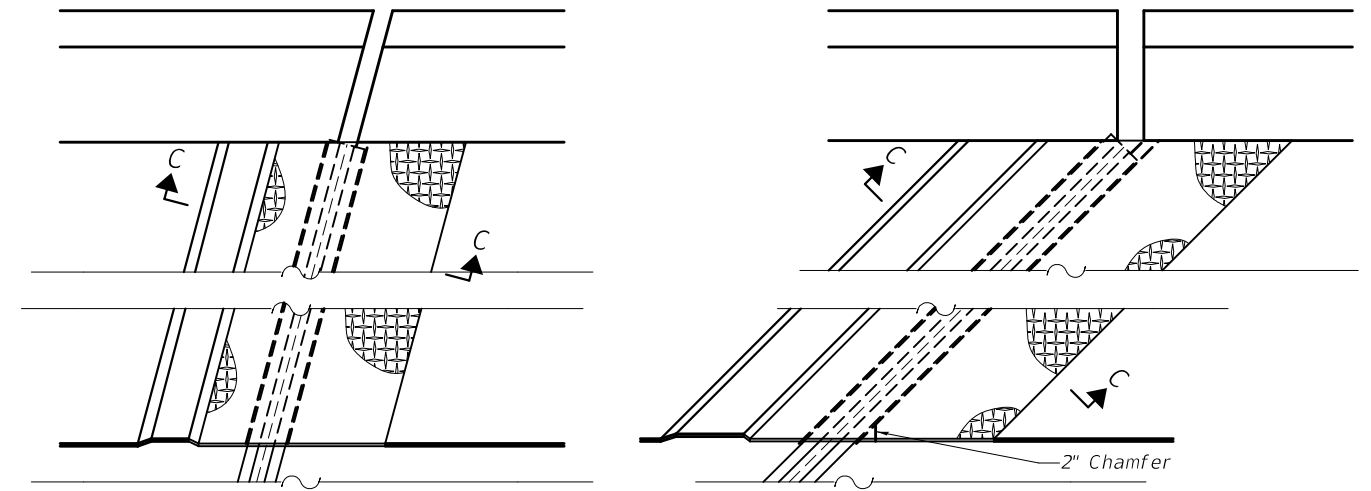
SHEET NO. 4 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(612-1)BR	McLEAN	51	22
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

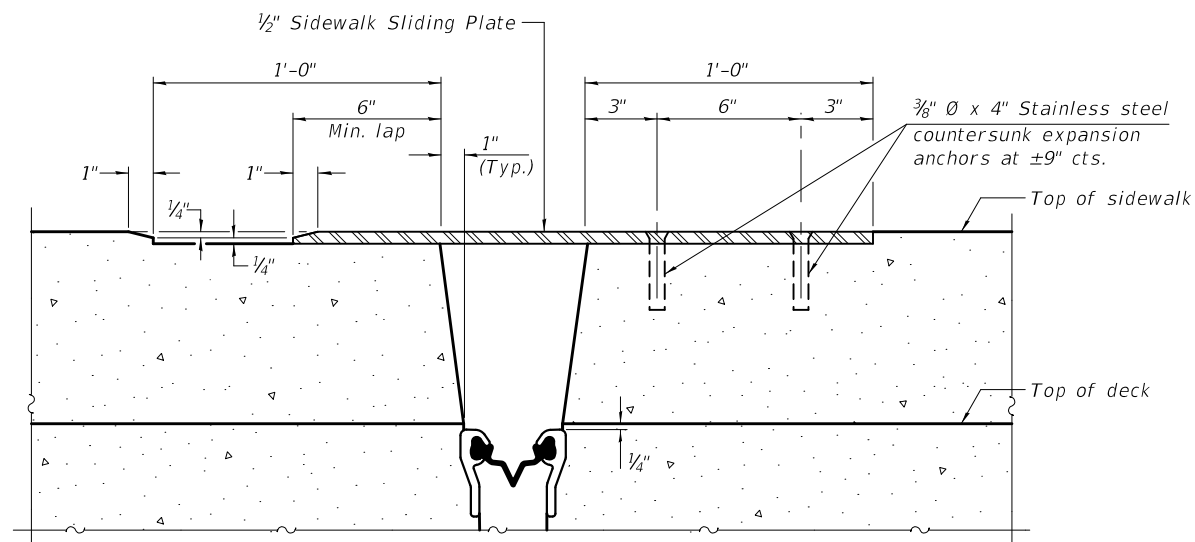
(Sheet 1 of 3)



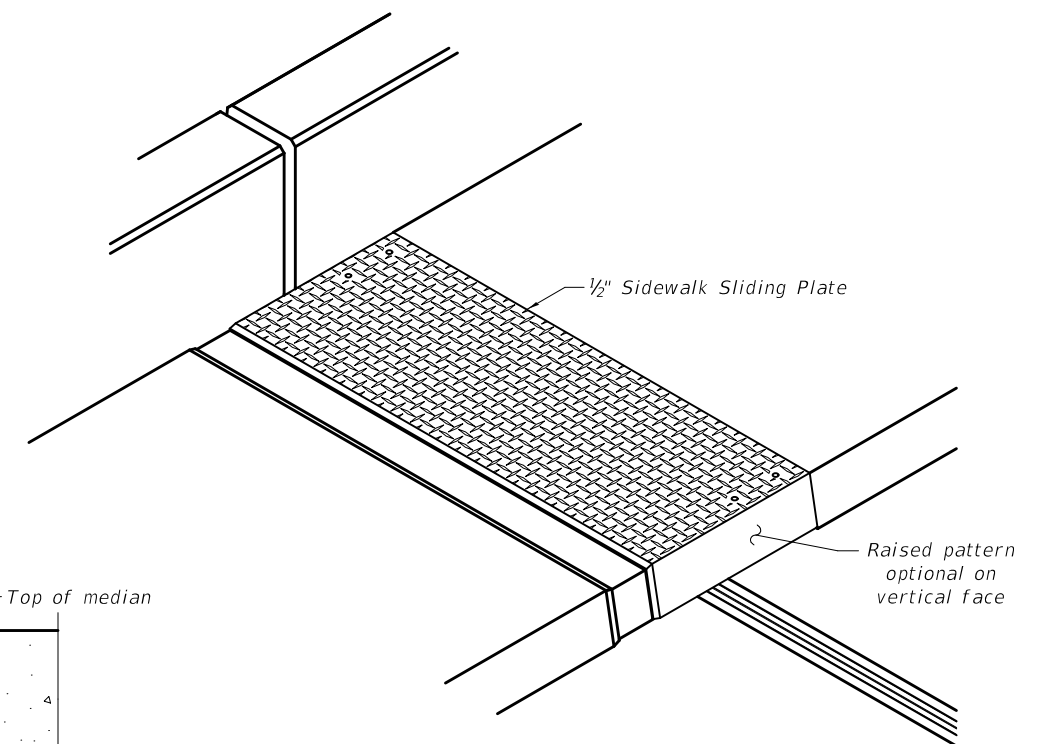
ELEVATION AT RAISED SIDEWALK



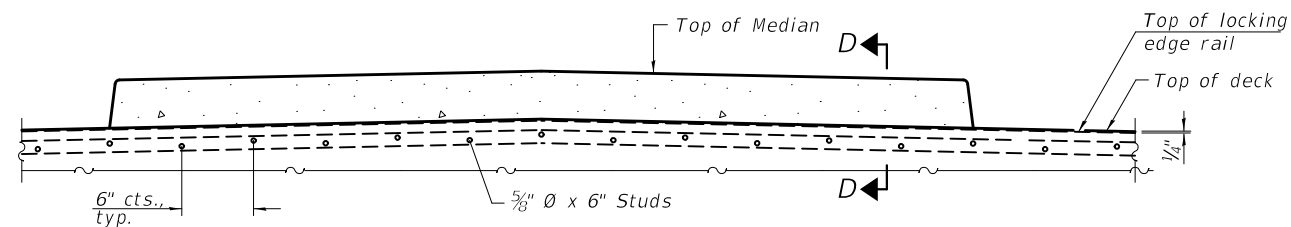
PLAN AT RAISED SIDEWALK



SECTION C-C

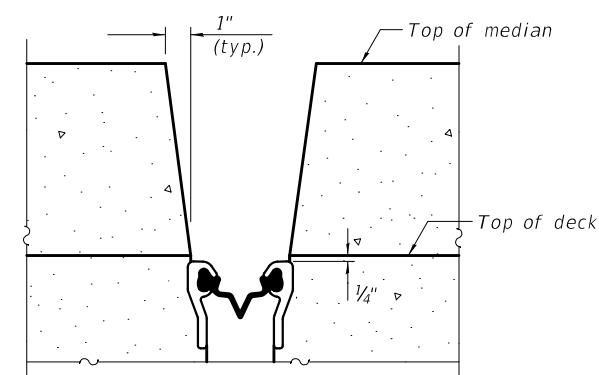


TRIMETRIC VIEW



ELEVATION AT MEDIAN

For skews $> 30^\circ$, chamfer acute corners 2" similar to sidewalk.



SECTION D-D
(at Rt. L's)

EJ-SS-S

8-11-17

(Sheet 2 of 3)

DESIGNED - HSS	EXAMINED
CHECKED - CDK	PASSED
DRAWN - daburdell	
CHECKED - HSS CDK	

 ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 25, 2019
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED - REVISED -

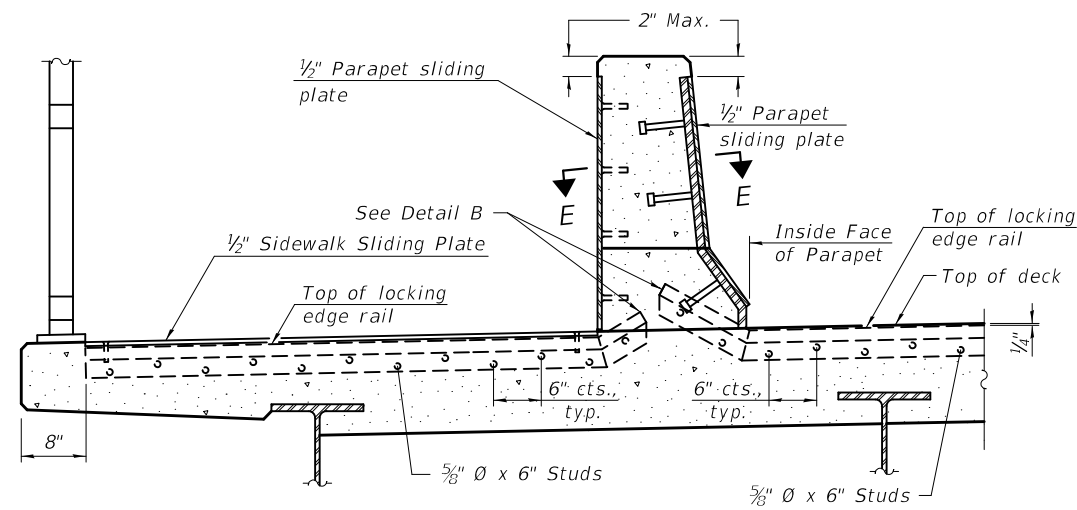
DATE - MARCH 25, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK
SN 057-6301

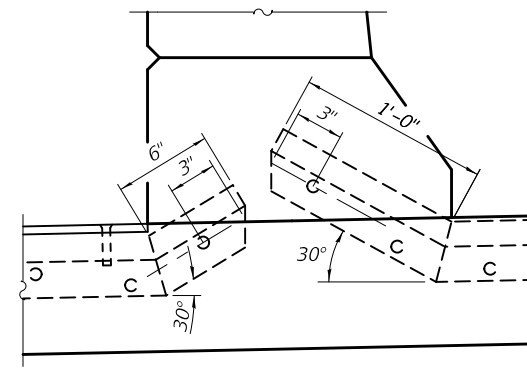
SHEET NO. 5 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	23
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

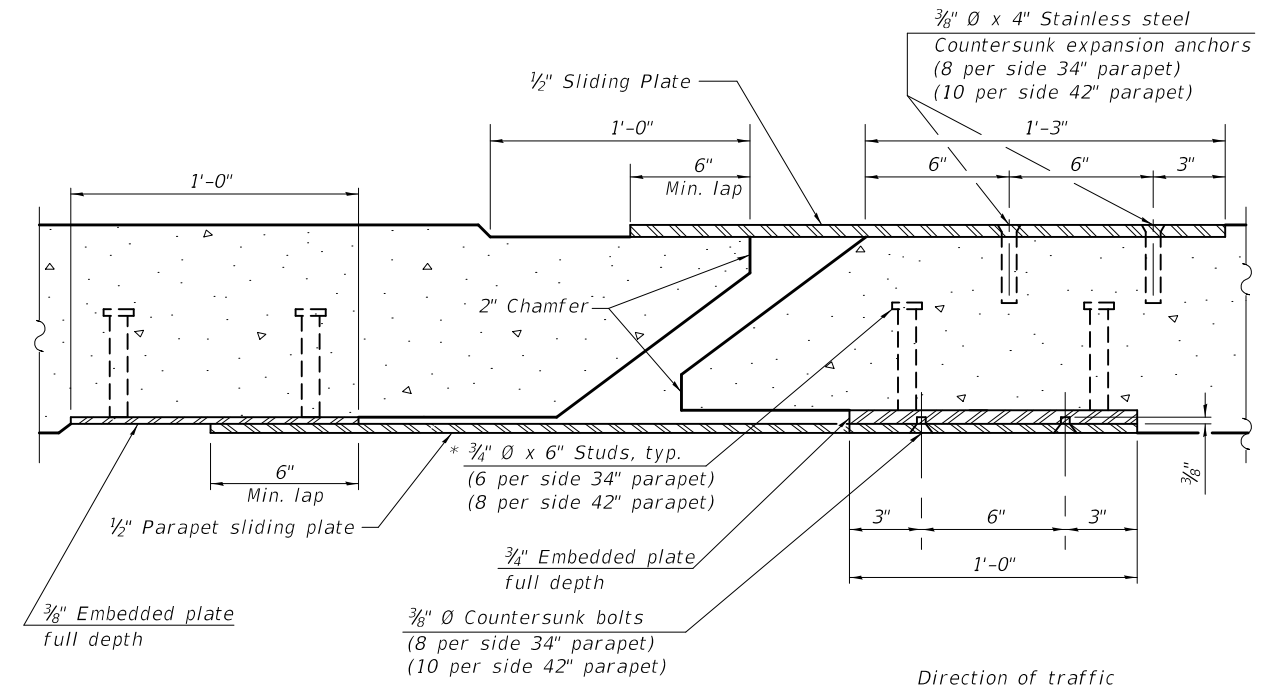


ELEVATION AT DECK LEVEL SIDEWALK

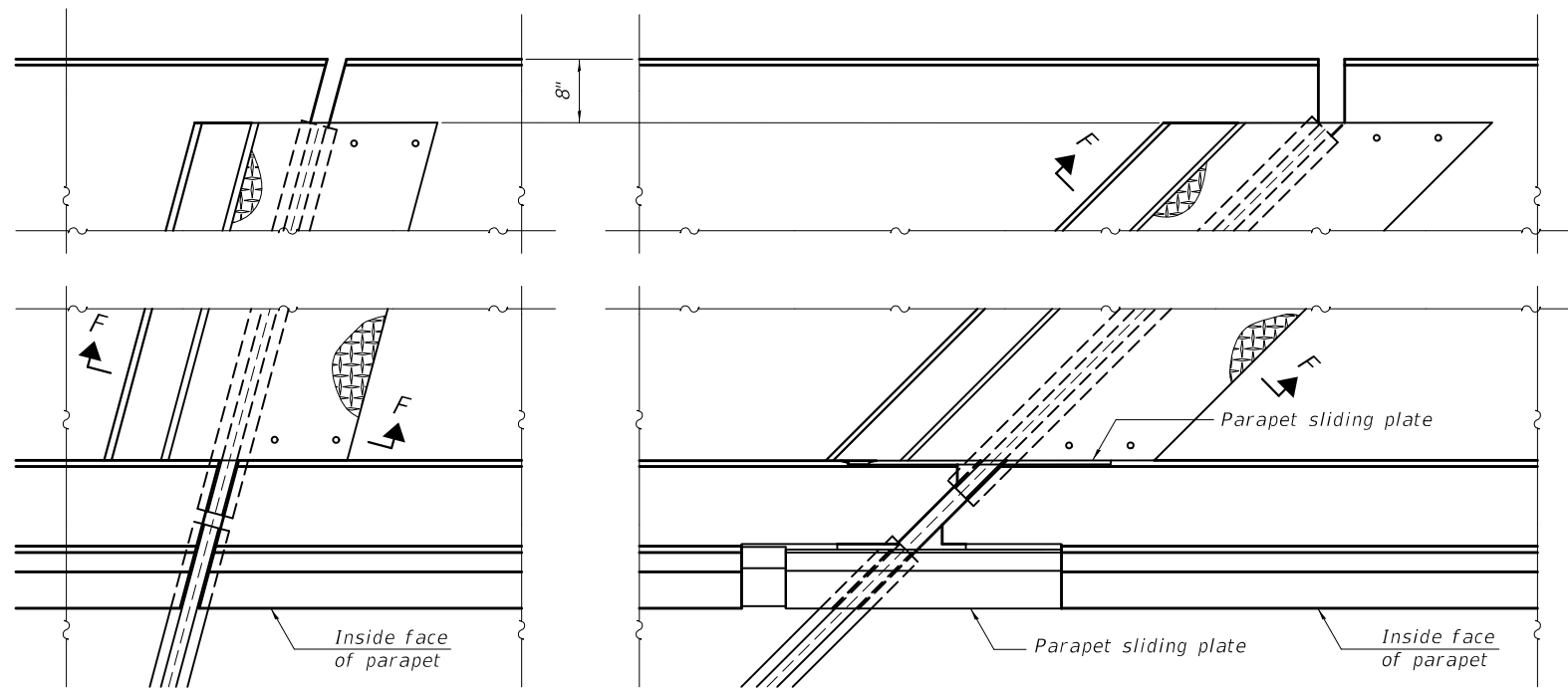
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL B



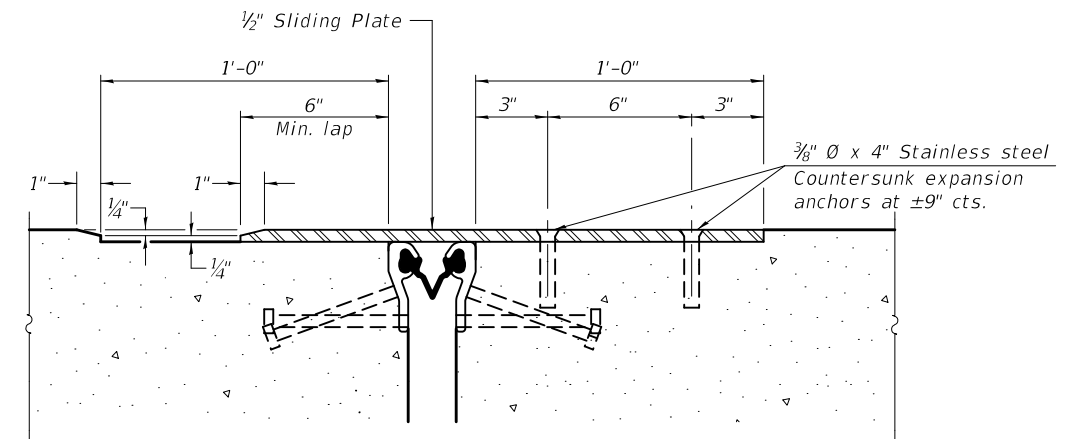
SECTION E-E



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

EJ-SS-S

8-11-17

(Sheet 3 of 3)

DESIGNED - HSS	EXAMINED
CHECKED - CDK	PASSED
DRAWN - daburdell	
CHECKED - HSS CDK	

 ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 25, 2019
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

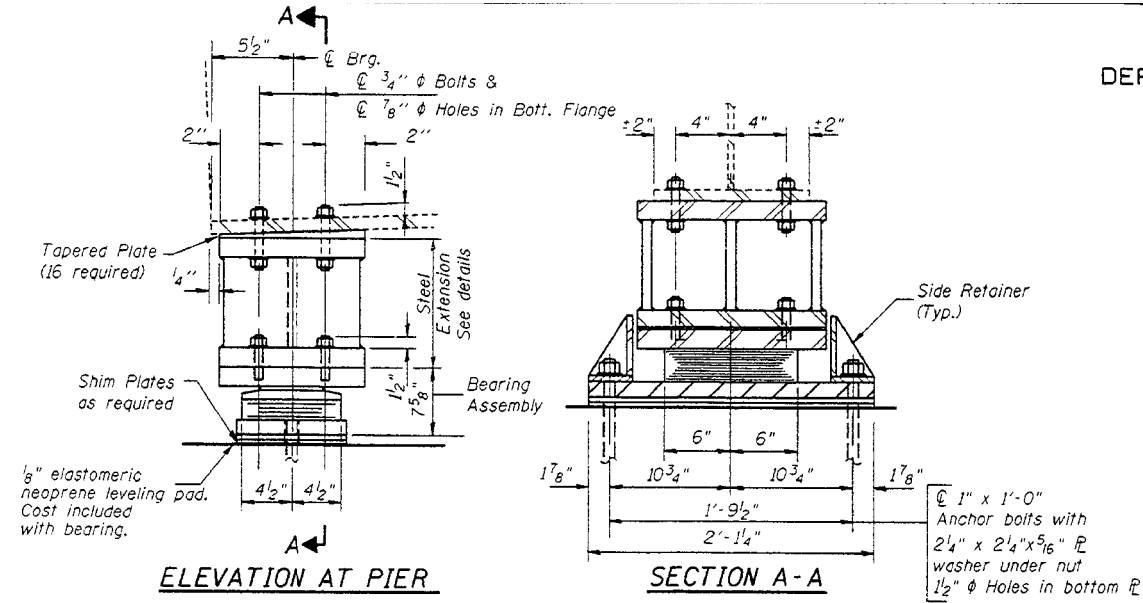
PREFORMED JOINT STRIP SEAL - SIDEWALK
SN 057-6301

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	24
CONTRACT NO. 70D14				

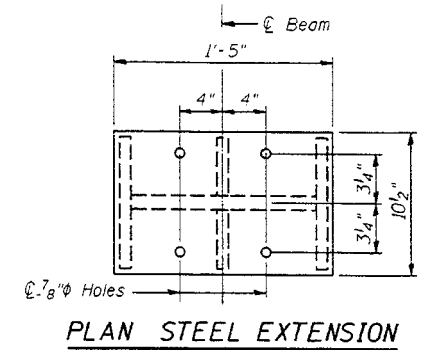
SHEET NO. 6 OF 12 SHEETS

ILLINOIS FED. AID PROJECT

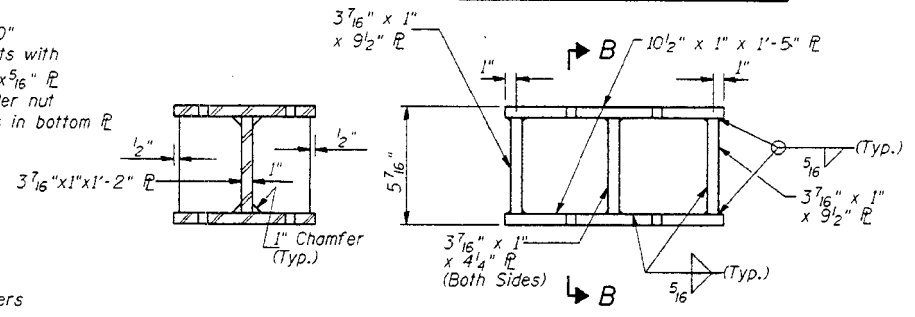
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TYPE II ELASTOMERIC EXP. BRG.
AT PIER 2 SPAN 3 & PIER 6 SPAN 6
(16 Required)

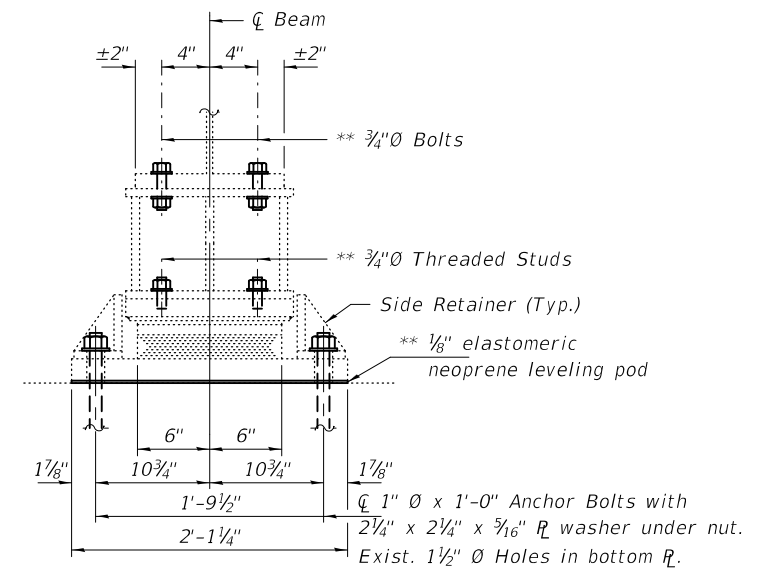


PLAN STEEL EXTENSION



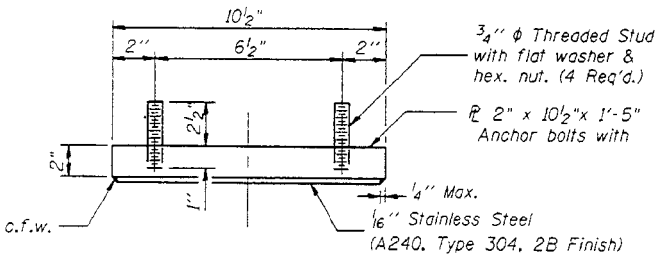
SECTION B-B

ELEVATION STEEL EXTENSION

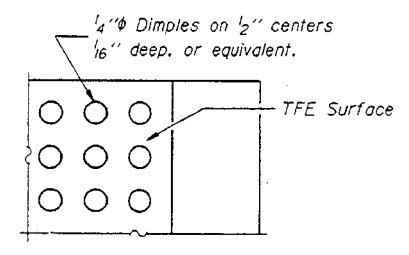


SECTION A-A

*Notes:
The Contractor must ensure not to cause any damage to the existing bearings that are removed and re-installed.
Before removal the Contractor must verify existing bearing dimensions. Match mark bearings to ensure they are installed in the proper locations.



TOP BEARING ASSEMBLY

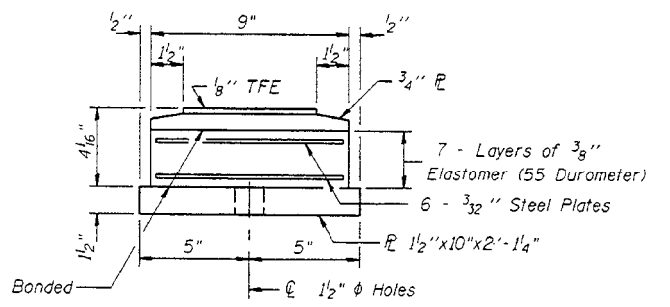


PLAN-TFE SURFACE

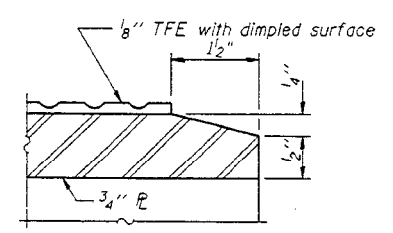
NOTE:
Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions.

Note: The 1/8 inch TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

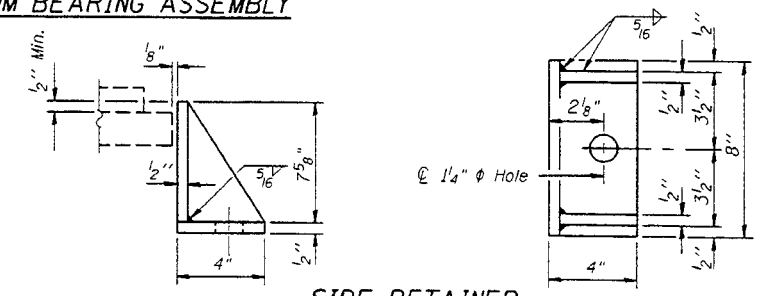
Bonding of 1/8 inch TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



BOTTOM BEARING ASSEMBLY



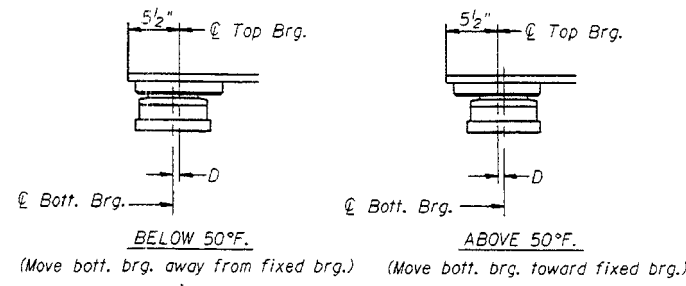
SECTION THRU TFE



SIDE RETAINER
(32 Required)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Furnishing and Erecting Structural Steel.

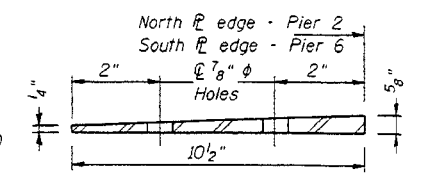
FOR INFORMATION ONLY



SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8 inch per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

Note:
For notes see Sht. 23 of 32



TAPERED PLATE

Plan dimension and hole spacings to match plan of steel extension.

BEAM REACTIONS

R _D	(K)	29.5
R _L	(K)	33.5
Imp.	(K)	8.4
R (Total)	(K)	71.4

** Cost included with Remove and Re-install Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Remove and Reinstall Existing Bearings	Each	16
Anchor Bolts, 1"Ø	Each	32

DESIGNED - HSS
CHECKED - CDK
DRAWN - daburdell
CHECKED - HSS CDK

EXAMINED
PASSED
Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES
Carl R. Ringer
ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 25, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BEARING DETAILS PIER 2 (SOUTH) & PIER 6 (NORTH)
SN 057-6301

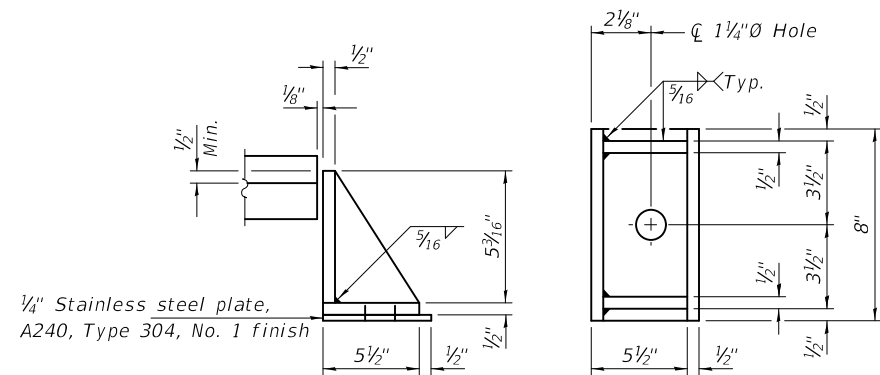
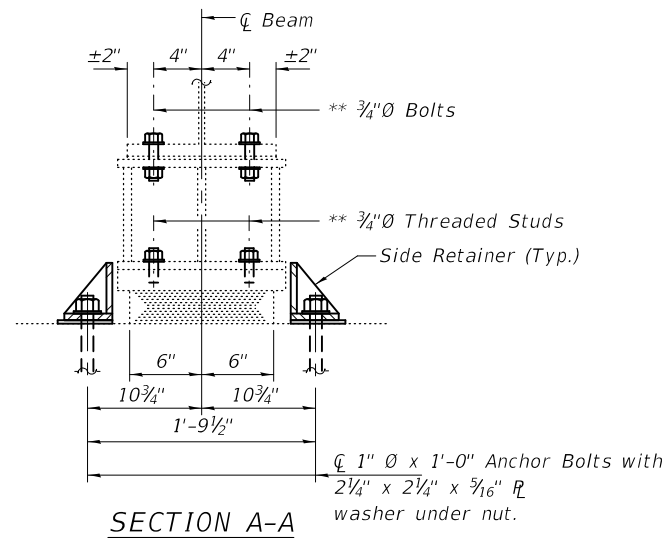
SHEET NO. 7 OF 12 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
730 (61Z-1)BRR McLEAN 51 25
CONTRACT NO. 70D14
ILLINOIS FED. AID PROJECT

*Notes:
 The Contractor must ensure not to cause any damage to the existing bearings that are removed and re-installed.
 Before removal the Contractor must verify existing bearing dimensions. Match mark bearings to ensure they are installed in the proper locations.

BEAM REACTIONS

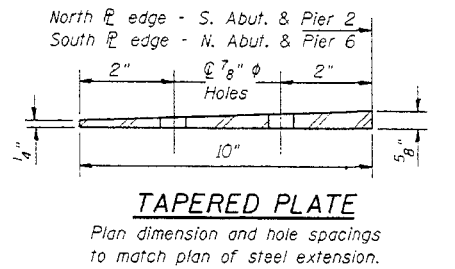
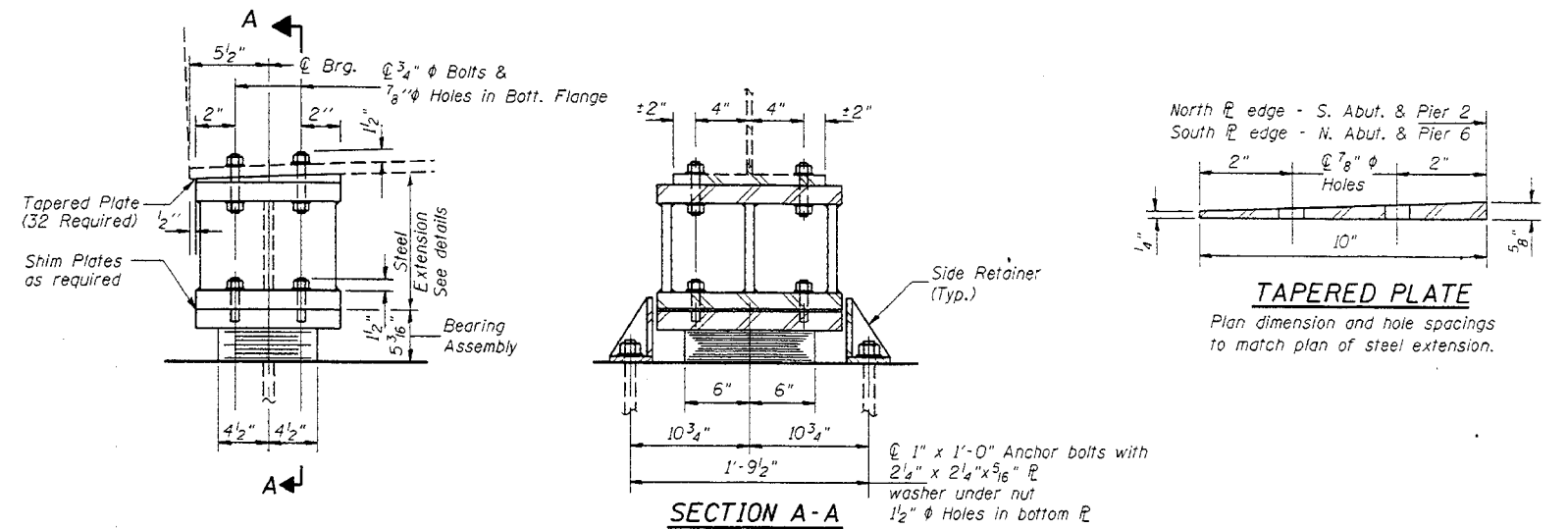
R _⊥	(K)	30.1
R _∥	(K)	33.5
Imp.	(K)	8.4
R (Total)	(K)	72.0



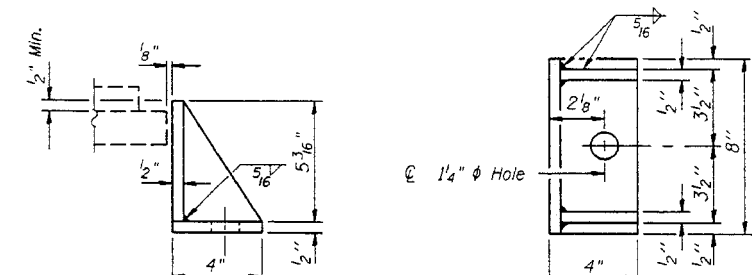
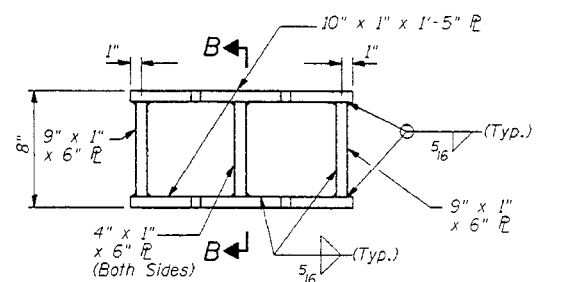
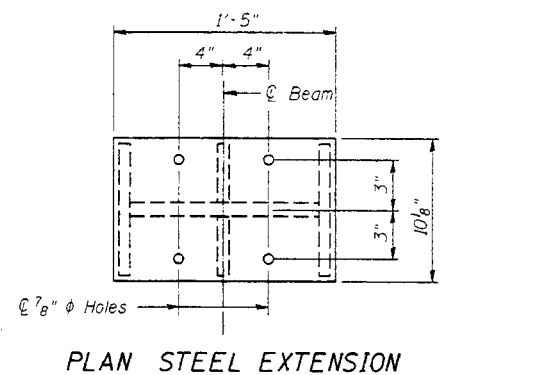
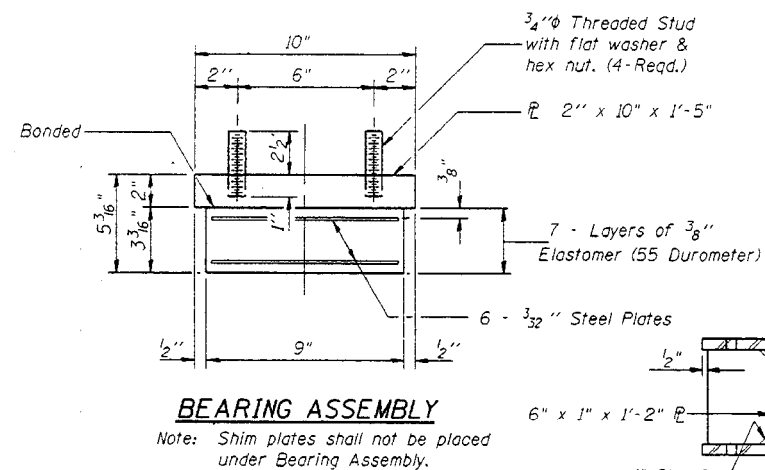
BILL OF MATERIAL

Item	Unit	Total
Remove and Re-install Existing Bearings	Each	16
Furnishing and Erecting Structural Steel	Pound	610
Anchor Bolts, 1" ϕ	Each	32

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

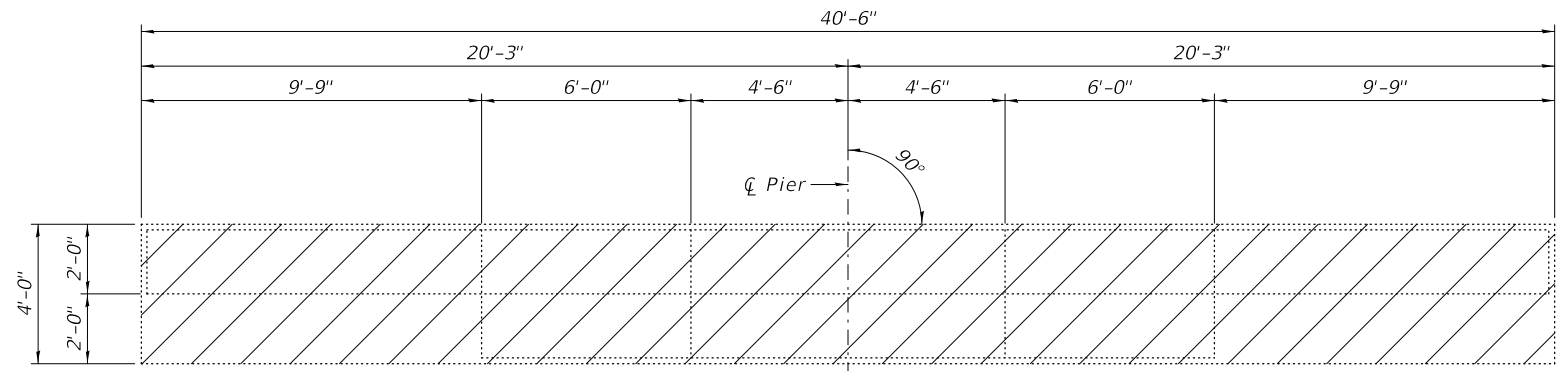


TYPE I ELASTOMERIC EXP. BRG.
ABUTMENTS, PIER 2 SPAN 2 & PIER 6 SPAN 7
 (32 Required)

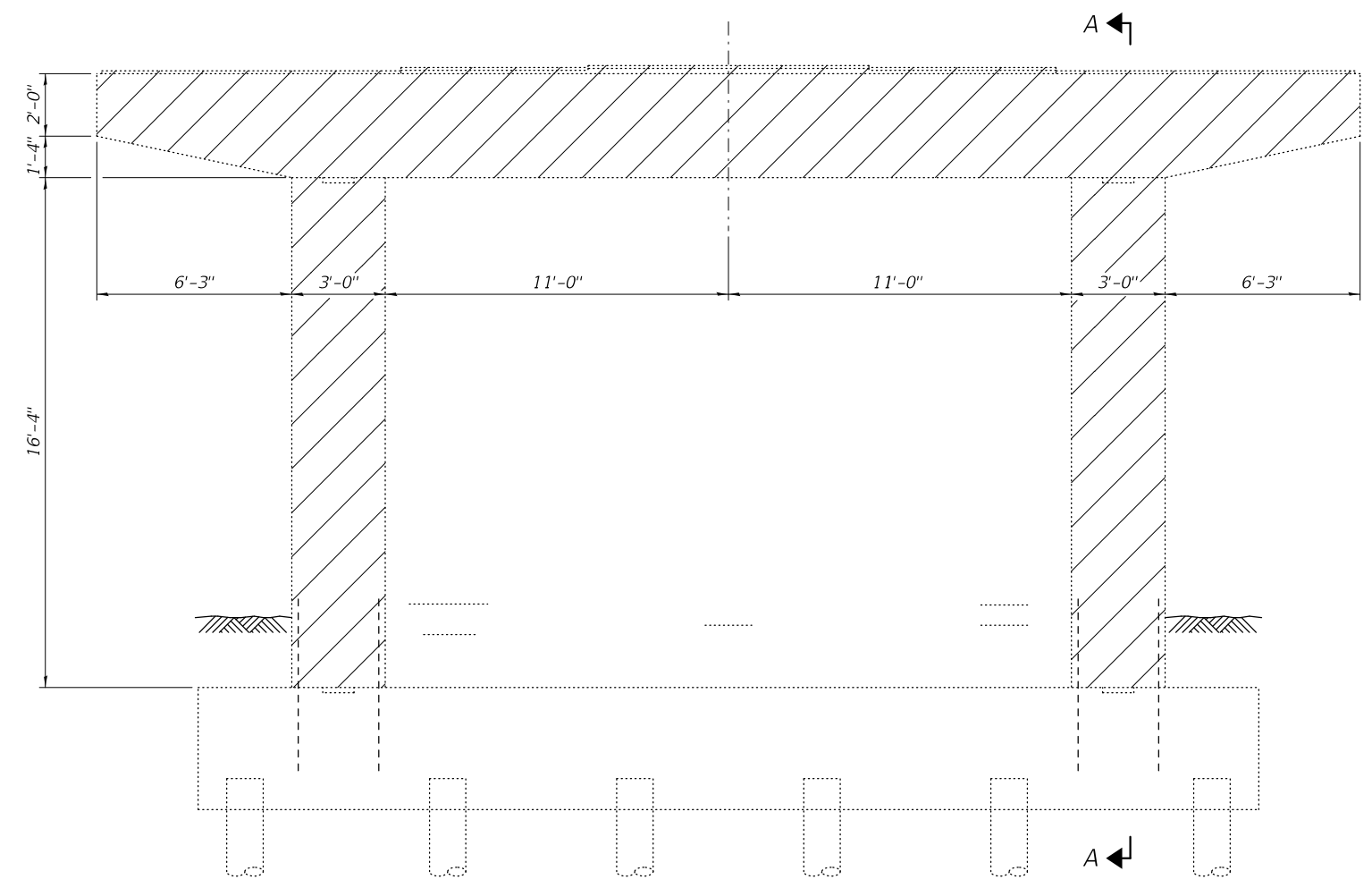


SIDE RETAINER
 ABUTMENTS, PIER 2 (Span 2), and PIER 6 (Span 7) (64 Required)
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Furnishing and Erecting Structural Steel.

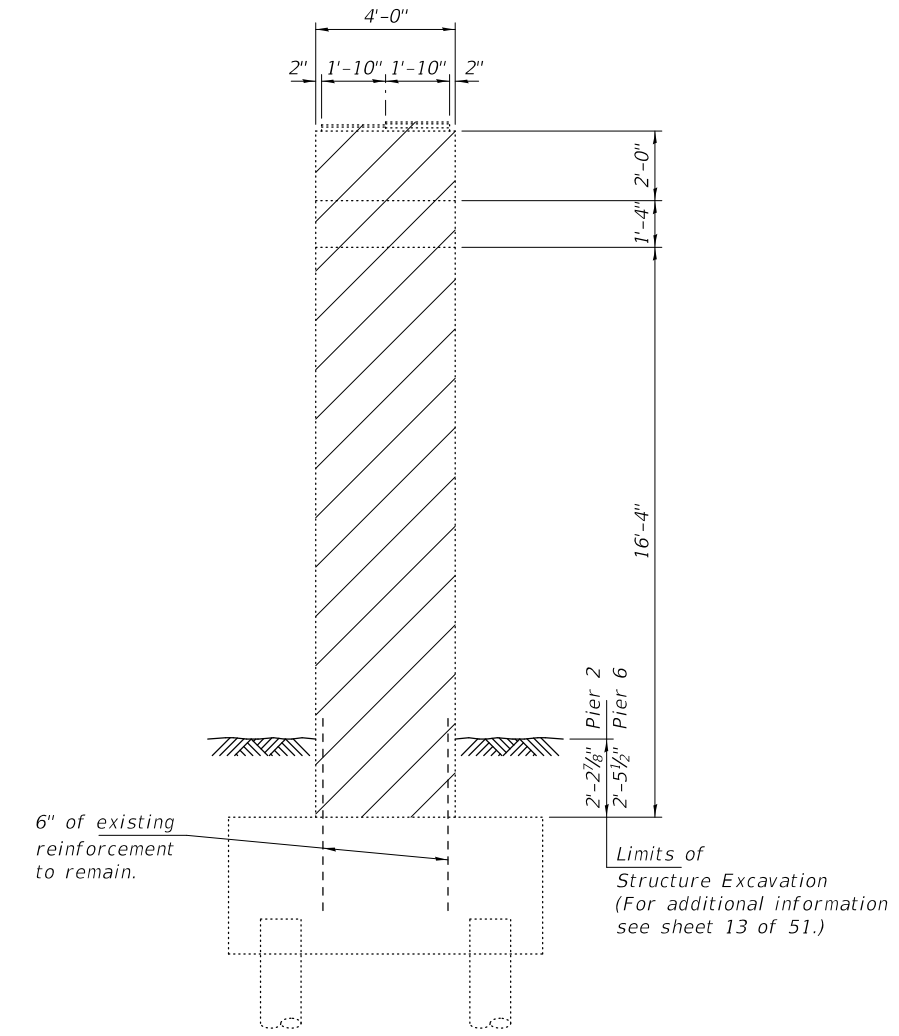
FOR INFORMATION ONLY



PLAN



ELEVATION



SECTION A-A

Note:
Hatched areas indicate
Concrete Removal.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	67.9

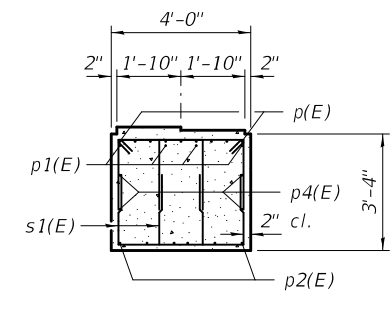
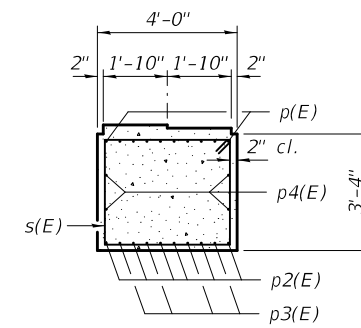
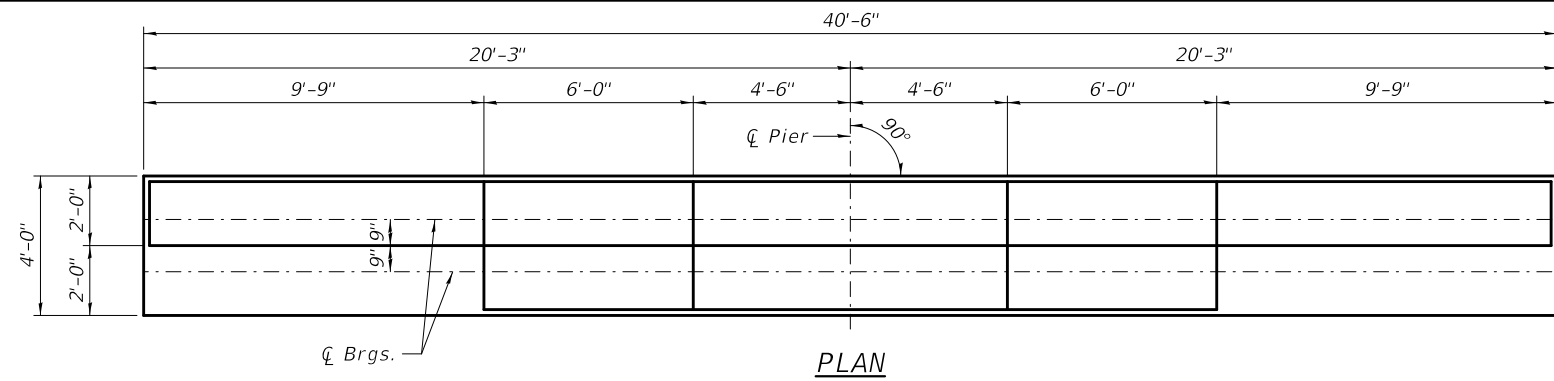
DESIGNED - HSS	EXAMINED	DATE - MARCH 25, 2019
CHECKED - CDK	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -
DRAWN - <i>daburdell</i>	PASSED	REVISED -
CHECKED - HSS CDK	<i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 & 6 - REMOVAL DETAILS
SN 057-6301

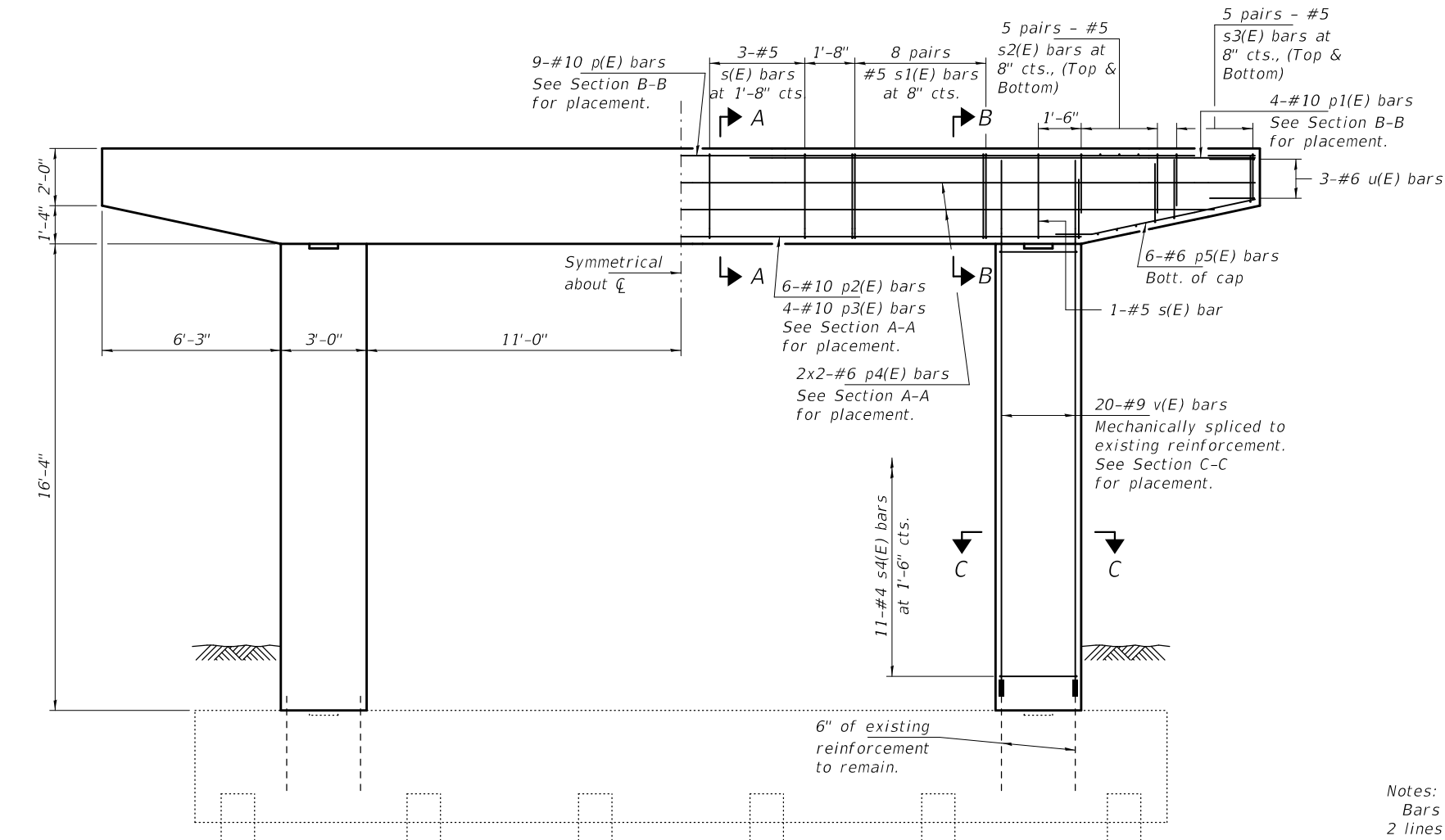
SHEET NO. 9 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	27
CONTRACT NO. 70D14			ILLINOIS FED. AID PROJECT	

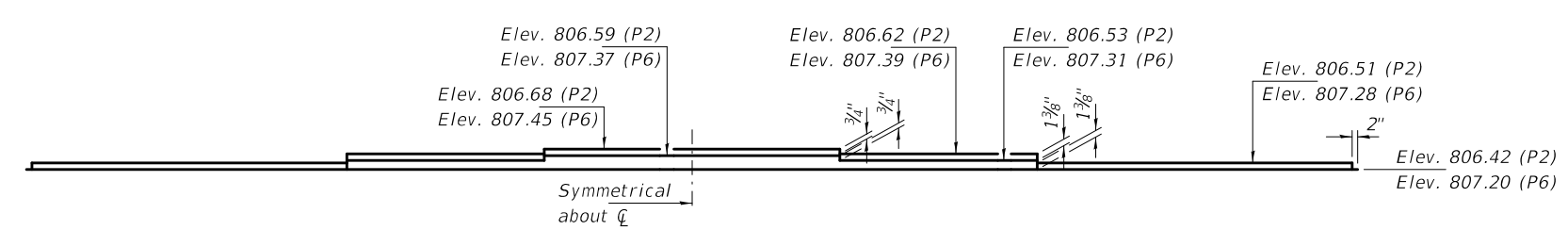


SECTION A-A

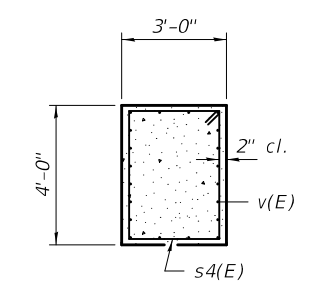
SECTION B-B



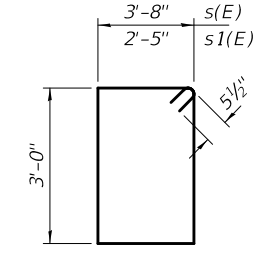
ELEVATION
(Looking North)



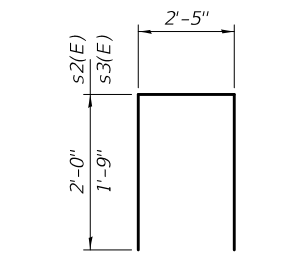
* TOP OF CAP ELEVATIONS
(Looking North)



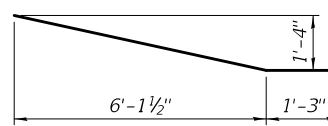
SECTION C-C



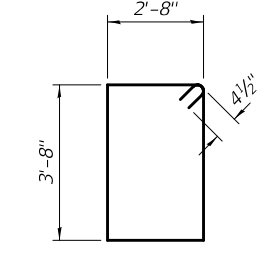
BARS s(E) & s1(E)



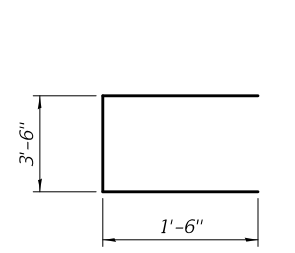
BARS s2(E) & s3(E)



BAR p5(E)



BAR s4(E)



BAR u(E)

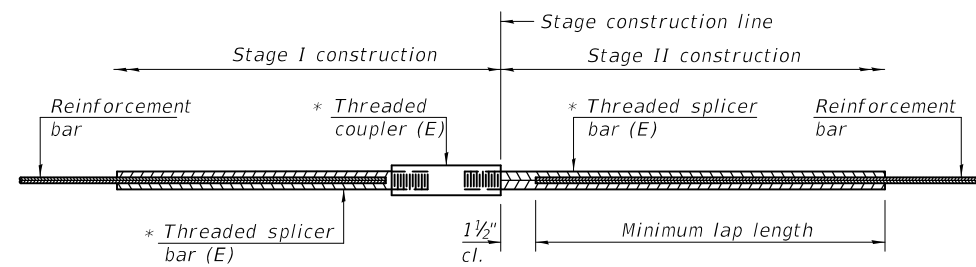
Notes:
Bars indicated thus 2x2-#6 etc. indicates 2 lines of bars with 2 lengths per line.
Concrete Sealer shall be applied to all new concrete.

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

BILL OF MATERIAL - 2 PIERS

Bar	No.	Size	Length	Shape
p(E)	18	#10	40'-3"	—
p1(E)	16	#10	17'-8"	—
p2(E)	12	#10	27'-6"	—
p3(E)	8	#10	12'-0"	—
p4(E)	16	#6	22'-3"	—
p5(E)	24	#6	7'-6"	—
s(E)	12	#5	14'-3"	□
s1(E)	64	#5	11'-9"	□
s2(E)	40	#5	6'-5"	□
s3(E)	40	#5	5'-11"	□
s4(E)	44	#4	13'-5"	□
u(E)	12	#6	6'-6"	□
v(E)	80	#9	19'-3"	—
Concrete Structures		Cu. Yd.	67.9	
Mechanical Splicers		Each	80	
Reinforcement Bars, Epoxy Coated		Pound	14200	
Concrete Sealer		Sq. Ft.	2055	

* Elevations are from the 1961 original plans and are provided for information and reference only. It is the responsibility of the Contractor to verify actual elevations in the field so the caps can be rebuilt to existing configuration.

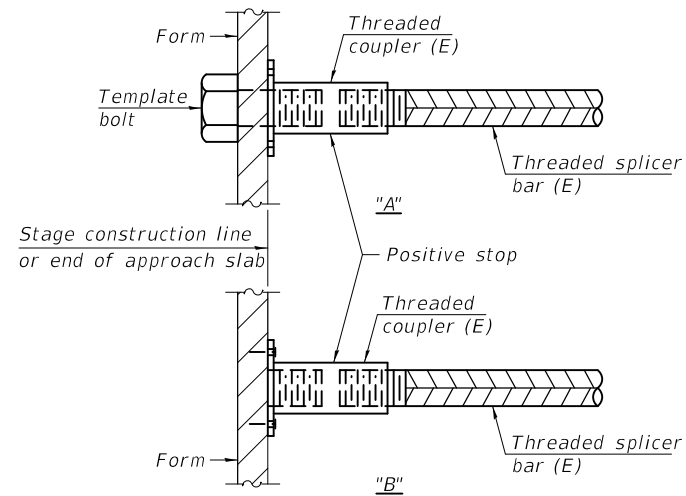


STANDARD BAR SPLICER ASSEMBLY

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Pier 2 - Span 2	#5	8	3'-1"
Pier 2 - Span 3	#5	8	3'-1"
Pier 6 - Span 6	#5	8	3'-1"
Pier 6 - Span 7	#5	8	3'-1"

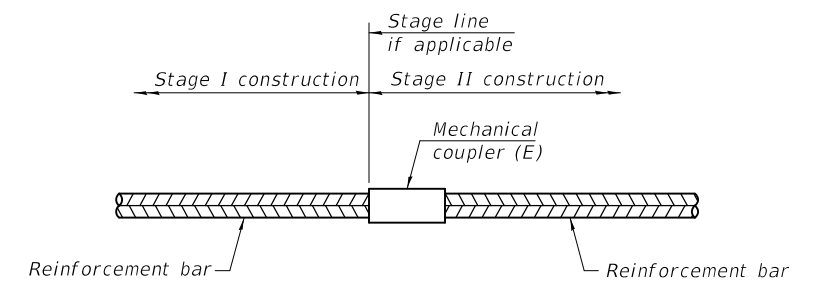


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

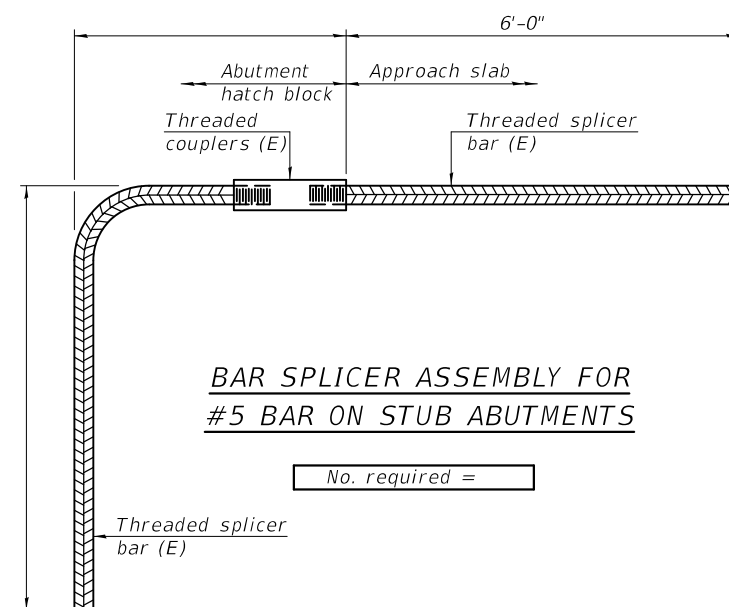
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier 2	#9	40
Pier 6	#9	40



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

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

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

BSD-1

2-17-2017

DESIGNED - HSS
 CHECKED - CDK
 DRAWN - daburdell
 CHECKED - HSS CDK

EXAMINED
 PASSED

Timothy A. Daburdell
 ENGINEER OF STRUCTURAL SERVICES
 Carl R. Berger
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 25, 2019

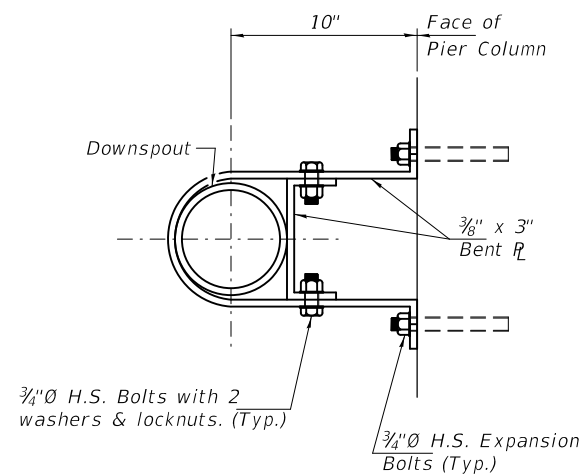
REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

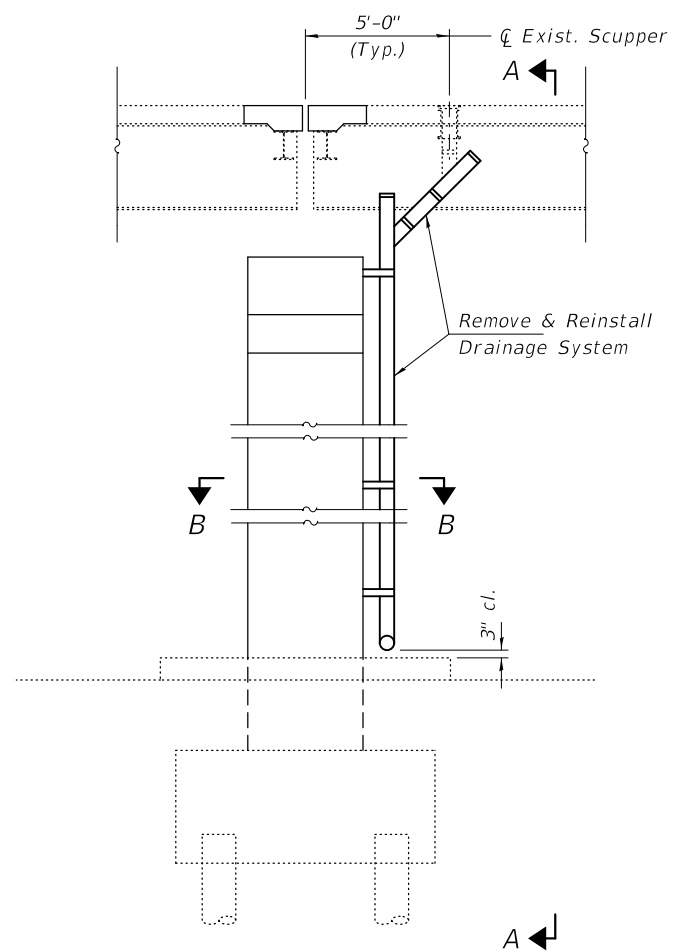
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 057-6301

SHEET NO. 11 OF 12 SHEETS

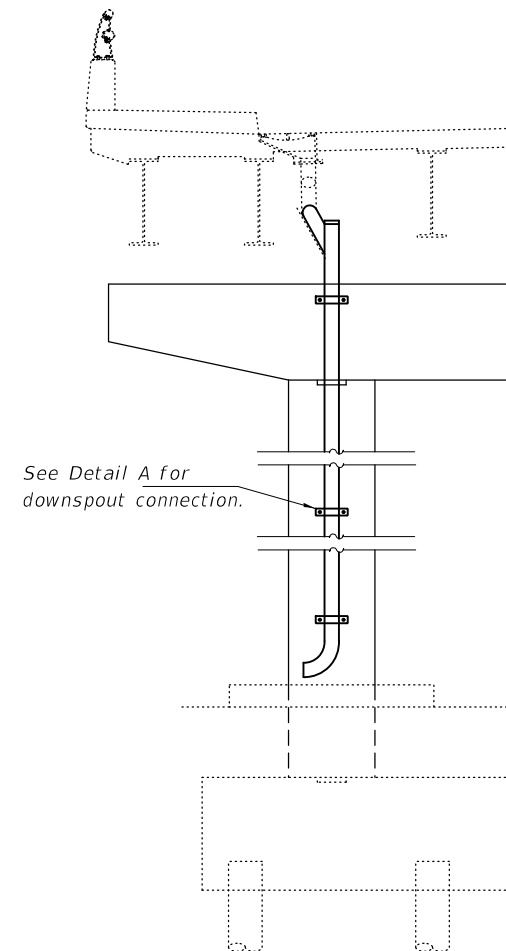
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	29
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				



DETAIL A
(Typical Pipe Support Connection)



ELEVATION



SECTION A-A



SECTION B-B

Note:
Bolts, anchor studs, washers and nuts shall be galvanized according to AASHTO M111 or M232 as applicable.
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(1) of the Standard Specifications.
The cost of all labor and materials required to remove, store and reinstall the existing drainage system is included with the lump sum cost for "Bridge Drainage System".

BILL OF MATERIAL

Item	Unit	Total
Bridge Drainage System	L. Sum	1

DESIGNED - HSS	EXAMINED - <i>Timothy A. Dabur</i> ENGINEER OF STRUCTURAL SERVICES	DATE - MARCH 25, 2019
CHECKED - CDK	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - <i>daburdell</i>		REVISED -
CHECKED - HSS CDK		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SYSTEM DETAILS
SN 057-6301**

SHEET NO. 12 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1)BRR	McLEAN	51	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D14	

Bench Mark: Top Conc. R Marker, R.R. Property line on West Side Center Street (Sta. 145+43.00) Elev. 790.65

Existing Structure: S.N. 057-6301 is an eight span composite steel beam structure measuring 647'-8" back to back of abutments with 0° skew. The deck width is 42'-0" out of out with slab thickness of 7 1/2". The bridge is located on a tangent horizontal alignment. The superstructure is supported by cantilever vertical full height abutments. Piers consist of reinforced concrete cap supported by square columns. Abutment and Pier foundations consist of drilled 14" concrete piles or 1'-6" caissons. The vertical alignment consists of three vertical curves through approach pavement and bridge length. The bridge was built in 1971 and repair work was done in 1997. The existing deck will be removed and replaced.

Traffic shall be maintained using stage construction.

Existing aluminum rail to be salvaged and reinstalled

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 31 SHEETS	ROUTE NO. S.B.L. F.A.P. 738	SECTION 61Z-1 VBR	COUNTY McLEAN	TOTAL SHEETS 52	SHEET NO. 7
FED. ROAD DIST. NO. 3		ILLINOIS		FED. AID PROJECT	

STATION 145+28.00
REBUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 730 SEC. 61Z-1 VBR
LOADING HS20
STR. NO. 057-6301

NAME PLATE
See Std. 515001
Existing Name Plate shall be cleaned and relocated adjacent to new plate.
Cost included with Name Plates.

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

DESIGN SPECIFICATIONS
AASHTO 1996, 1997, 1998 & 1999 Interims

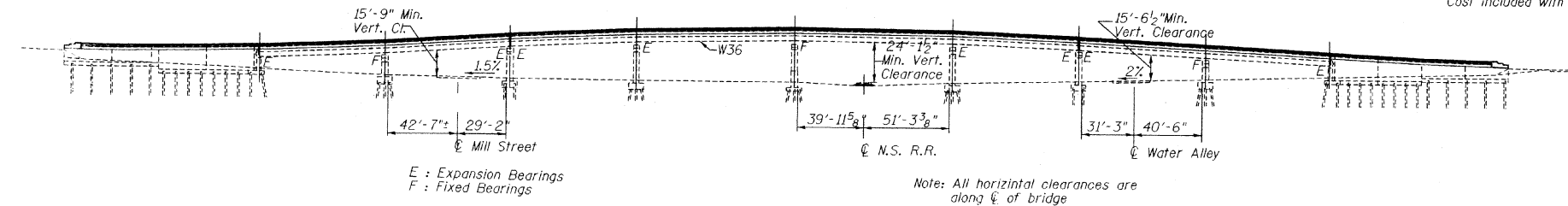
LOADING HS20-44

Allow 25 lbs/ft² for future wearing surface

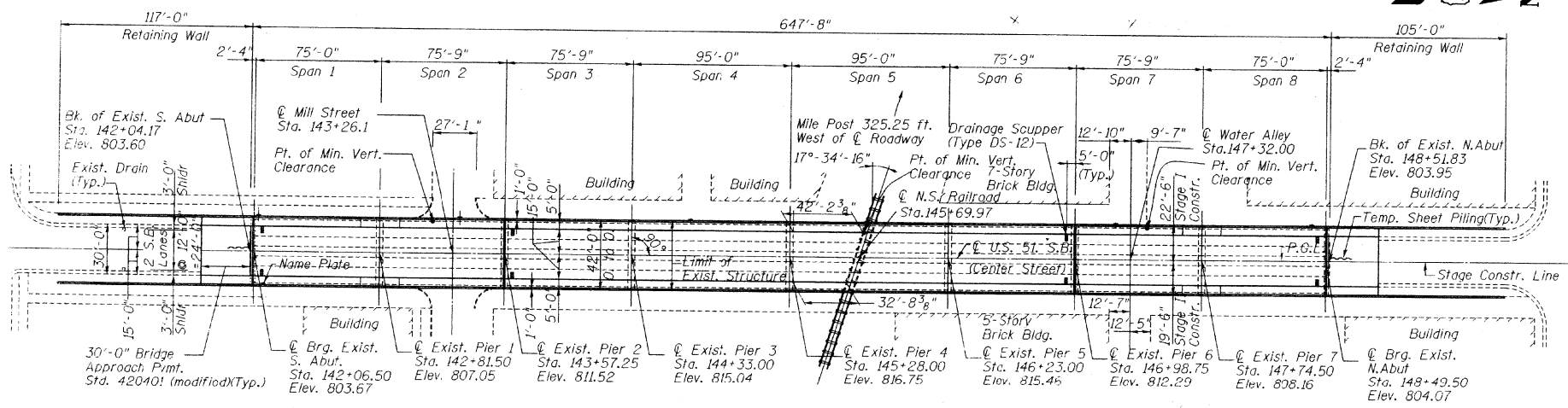
DESIGN STRESSES

New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
fy = 36,000 Structural Steel (M270 Gr. 36)

Existing Construction
f'c = 3,500 psi
fs = 20,000 psi (Reinf.)
fy = 36,000 Structural Steel

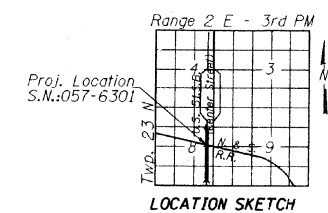


ELEVATION



PLAN

Note: No. deck drains will be permitted in the span over track or within 10'-0" of cross arms of a railroad pole line.



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

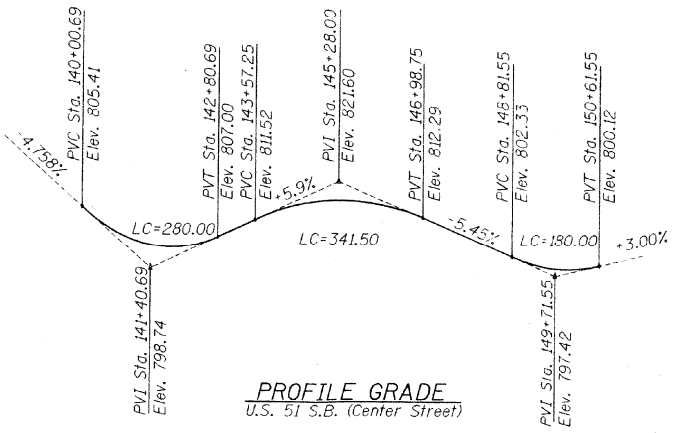
Ralph A. Anderson
ENGINEER OF STRUCTURES AND STRUCTURE



LICENSE EXPIRES: 11/30/2002

DESIGNED: M.M.H.
CHECKED: S.T.
DRAWN: J.S.
CHECKED: O.A.O.

RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS



PROFILE GRADE
U.S. 51 S.B. (Center Street)

MILL STREET
Cross-Section Elevations

Distance (ft.)	N. E./P.	Street	S. E./P.
50 W.	788.43	788.81	788.99
40 W.	788.47	788.83	788.96
30 W.	788.42	788.93	788.95
20 W.	788.57	789.04	789.00
10 W.	788.82	789.14	789.26
Bridge	789.03	789.14	789.42
10 E.	788.78	789.19	789.38
20 E.	788.44	789.15	789.10
30 E.	788.44	789.09	788.88
40 E.	788.60	789.04	788.85
50 E.	788.69	789.16	788.79

WATER ALLEY
Cross-Section Elevations

Distance (ft.)	N. E./P.	Alley	S. E./P.
50 W.	789.17	789.29	789.74
40 W.	789.46	789.46	789.91
30 W.	790.11	789.79	789.58
20 W.	790.20	790.03	789.72
10 W.	790.37	790.13	789.88
Bridge	790.52	790.24	789.98
10 E.	790.47	790.22	789.89
20 E.	790.21	790.05	789.69
30 E.	790.61	790.37	789.99
40 E.	790.65	790.52	790.47
50 E.	790.61	790.56	790.57

N.S. R.R. TRACK
Top of Rail Elevations

Distance Ft.	N. Rail	S. Rail
50 W.	787.94	788.08
40 W.	788.00	788.13
30 W.	788.03	788.14
20 W.	788.08	788.18
10 W.	788.13	788.22
Bridge	788.17	788.27
10 E.	788.20	788.28
20 E.	788.23	788.29
30 E.	788.27	788.30
40 E.	788.31	788.33
50 E.	788.34	788.34

REVISIONS

NAME	DATE

GENERAL PLAN
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P. RTE. 730 SECTION 61Z-1 VBR
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 09-18-01

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USER NAME = brandenburgj	DESIGNED - TJB	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

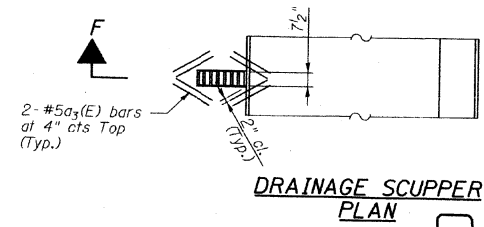
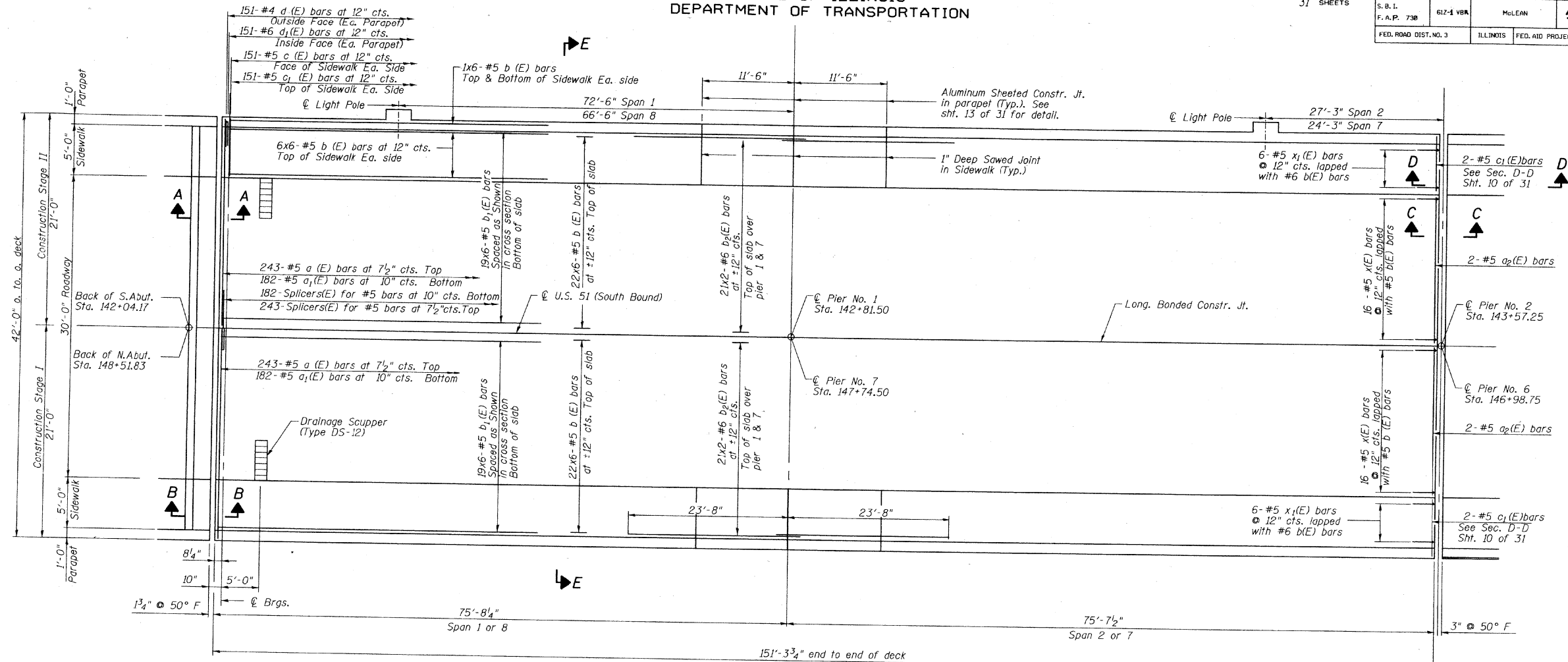
S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)
SCALE: SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 730	SECTION (61Z-1) BRR	COUNTY McLEAN	TOTAL SHEETS 51	SHEET NO. 31
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 70D14				

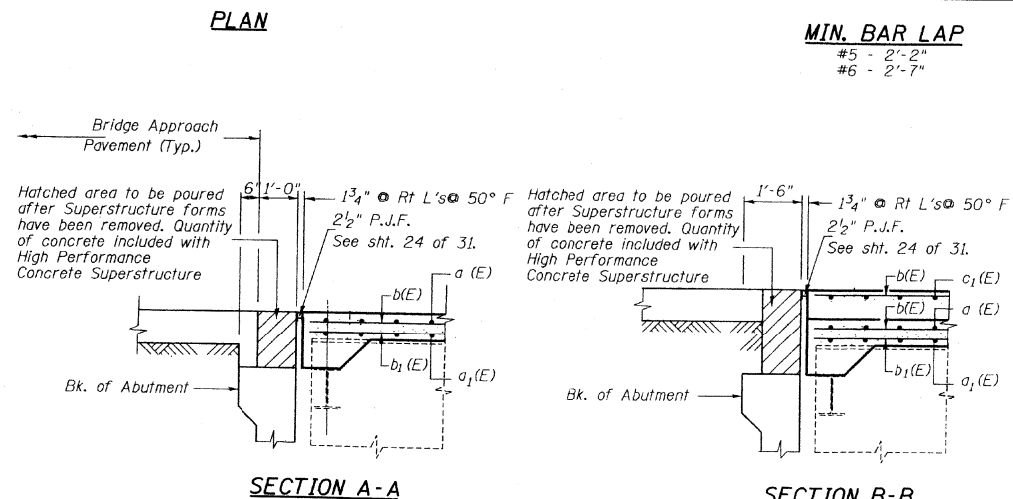
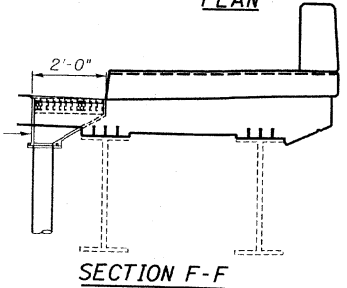
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 9 OF
31 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F.A.P. 730	612-1 VBR	McLEAN	52	15
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT-	



Drainage Scupper DS-12
See Sheet 17 of 31 for details



MIN. BAR LAP
#5 - 2'-2"
#6 - 2'-7"

- Notes:
- See Sheet 12 of 31 for superstructure details and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 - See Sheet #13 of 31 for parapet reinforcement.
 - For Lightpole Location see Sheet 13 of 31.
 - For Bar Splicer Details see Sht. 15 of 31.
 - Cut long. reinf. bars to clear drainage scuppers.

REVISIONS	
NAME	DATE

DECK PLAN SHEET 1 of 2
U.S. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P. RTE. 730-SECTION 612-1 VBR
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 09-18-01

DESIGNED: M.M.H.
CHECKED: S.T.
DRAWN: J.S.
CHECKED: O.A.O.
RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

USER NAME = brandenburgtj	DESIGNED - TJB	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

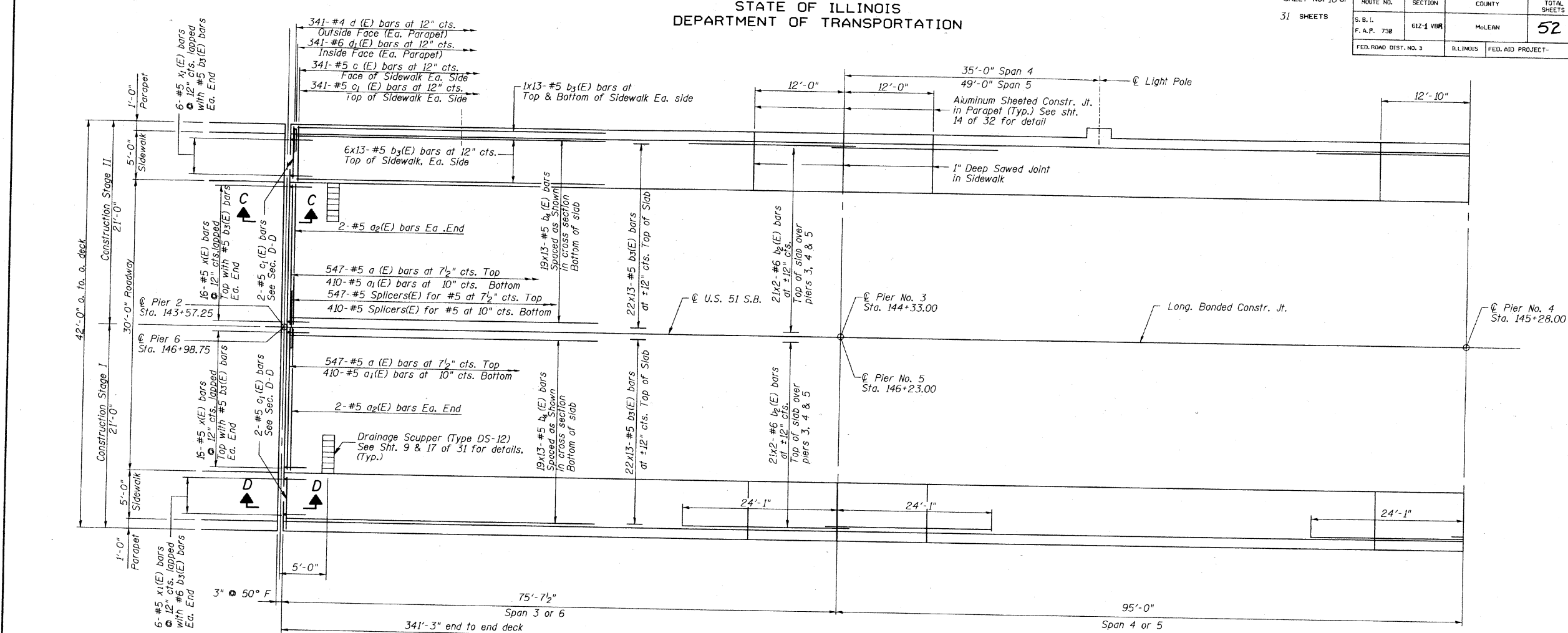
SCALE: SHEET 2 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 730	SECTION (612-1) BRR	COUNTY McLEAN	TOTAL SHEETS 51	SHEET NO. 32
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

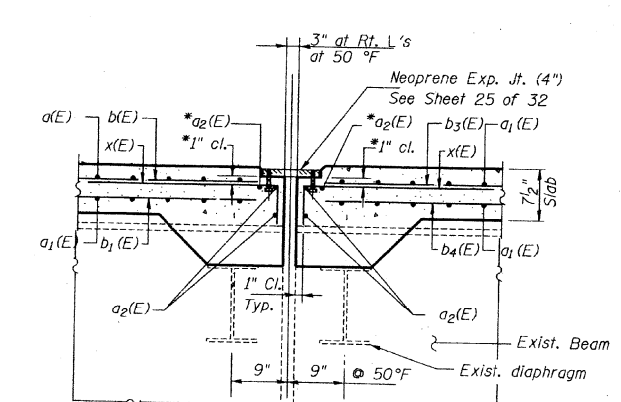
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

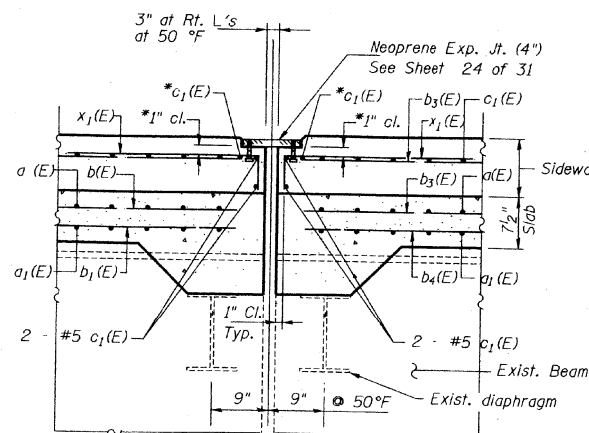
SHEET NO. 10 OF 31 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	S.B.1	612-1 VBR	McLEAN	52	16
	F.A.P. 730				
	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		



PLAN



SECTION C-C



SECTION D-D

*Place a₂(E) bars in back of anchor bolts as shown if required to maintain 1" cl. Anchor bolts should be tied to a₂(E) bars

*Place c₁(E) bars in back of anchor bolts as shown if required to maintain 1" cl. Anchor bolts should be tied to c₁(E) bars

DESIGNED :	M.M.H.
CHECKED :	S.T.
DRAWN :	J.S.
CHECKED :	O.A.O.

RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

MIN. BAR LAP
#5 - 2'-2"
#6 - 2'-7"

- Notes:
- See Sheet #12 of 31 for superstructure details and Bill of Material.
 - Reinforcement bars designated (E) shall be epoxy coated
 - Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 - See Sheet #13 of 31 for parapet reinforcement.
 - For Lightpole Location, See sheet #13 of 31.

REVISIONS	
NAME	DATE

DECK PLAN SHT.2 OF 2
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P.RTE. 730-SECTION 612-1 VBR
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE : 09-18-01

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	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

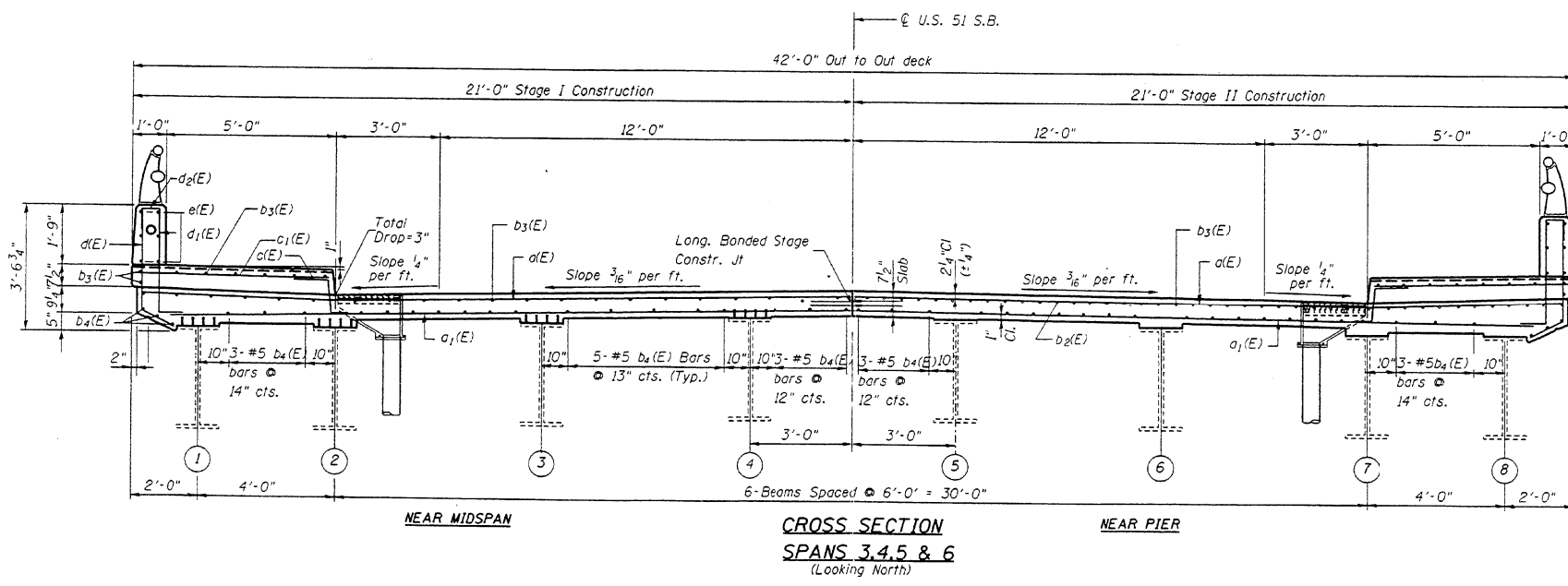
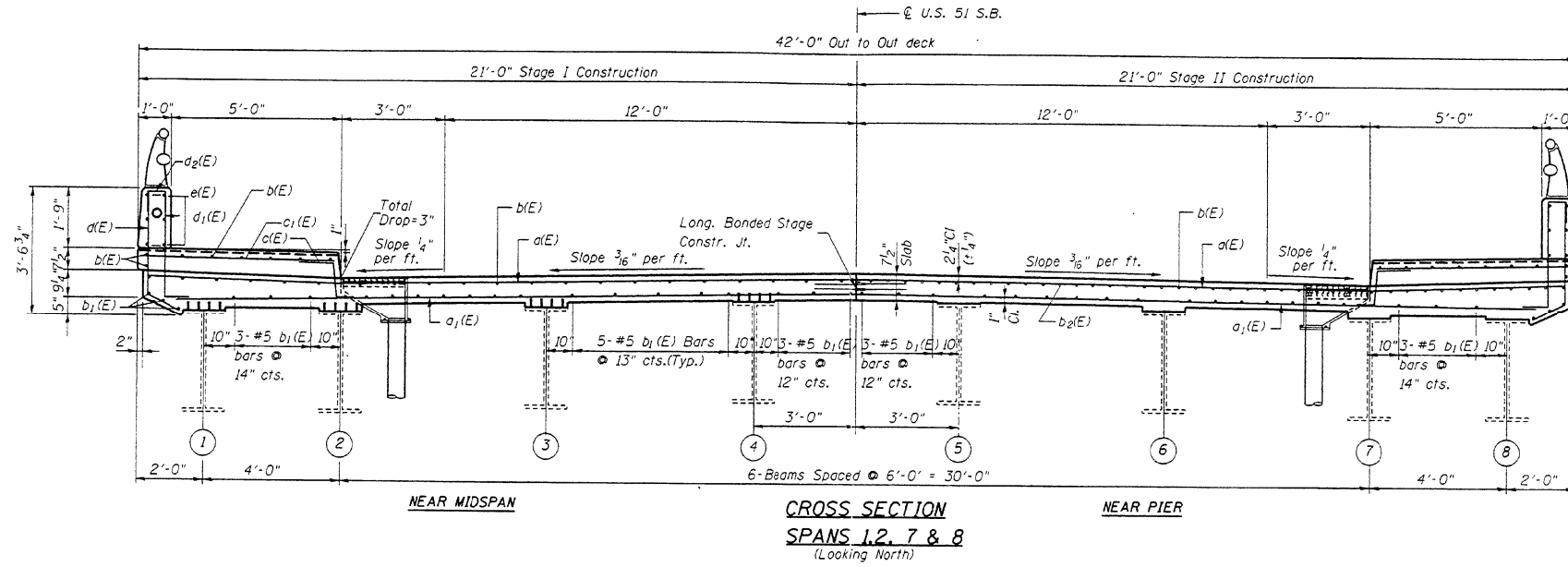
S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(612-1) BRR	McLEAN	51	33
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 11 OF 31 SHEETS		ROUTE NO. S.B. I. F.A.S. 730	SECTION 61Z-1-VB	COUNTY MCLEAN	TOTAL SHEETS 52	SHEET NO. 17
FED. ROAD DIST. NO. 3		ILLINOIS		FED. AID PROJECT		



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 DRAWN : J.S.
 CHECKED : O.A.G.
 RAYMOND-BELING, INC.
 CONSULTING ENGINEERS
 BOLINGBROOK, ILLINOIS

REVISIONS	
NAME	DATE

DECK CROSS-SECTIONS
 U.S. 51 S.B. OVER
 MILL STREET &
 NORFOLK SOUTHERN RR
 F.A.S.RTE. 730-SECTION 61Z-1-VB
 MCLEAN COUNTY
 STA. 145+28.00
 STRUCTURE NO. 057-6301
 DATE : 06-05-01

REVISED

Revised 7/23/03 OAO - Entire Sheet

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S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

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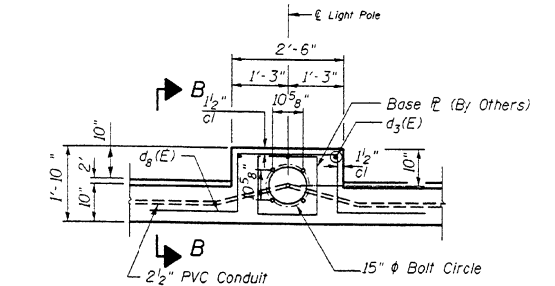
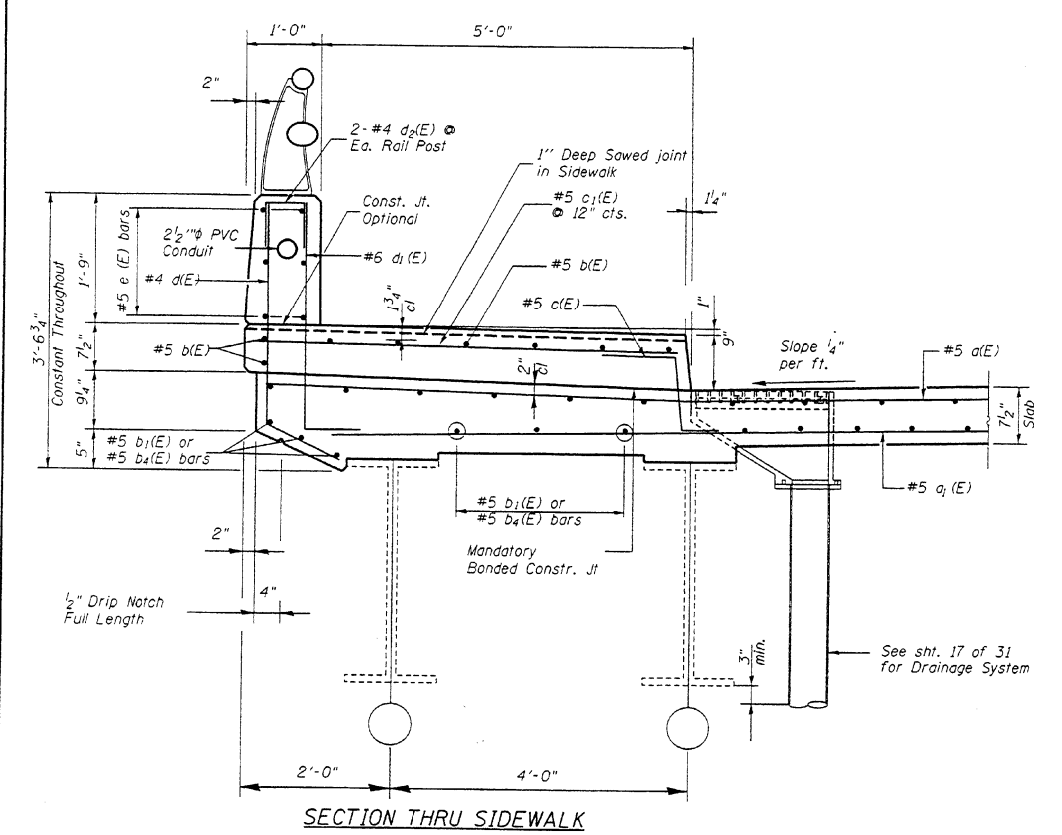
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ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 70D14

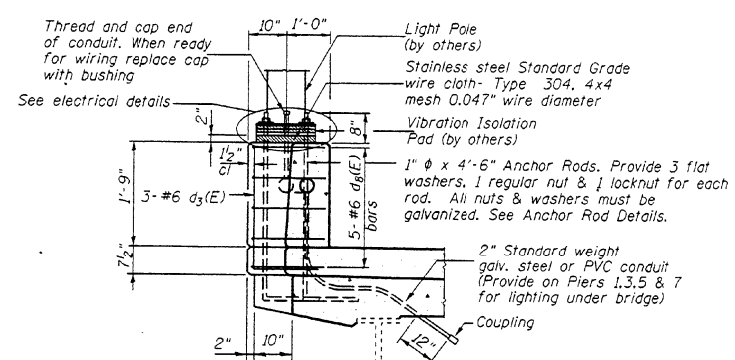
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

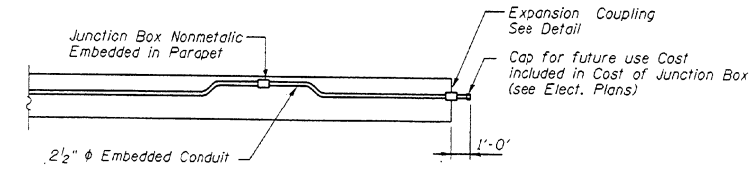
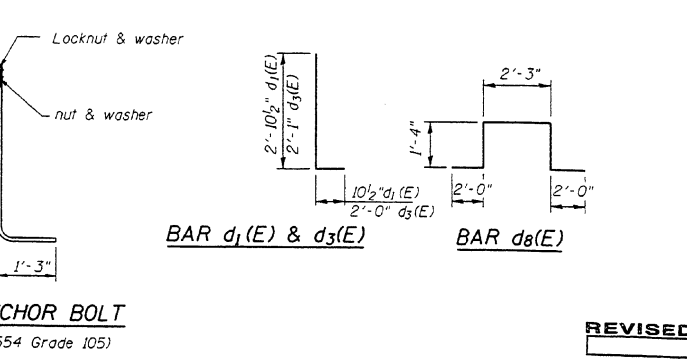
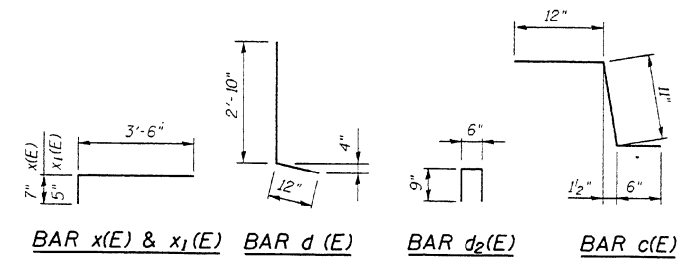
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FED. ROAD DIST. NO. 3			ILLINOIS	FED. AID PROJECT	



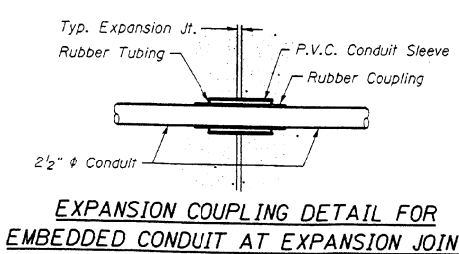
PLAN
LIGHT POLE BASE



SECTION B-B



JUNCTION BOX EMBEDDED
IN PARAPET WALL



EXPANSION COUPLING DETAIL FOR
EMBEDDED CONDUIT AT EXPANSION JOINTS

NOTE A:
Concrete inserts, anchor bars and support elements for electrical conduits shall be provided by Electric Utility owner. Concrete inserts will be cast-in-place in the deck bottom by the Contractor. Cost of conduits, junction boxes, inserts, and support elements included in High Performance Concrete Superstructure.

* Bolt diameter to be verified with the Light Pole Supplier.

* 1" ϕ ANCHOR BOLT
(ASTM F 1554 Grade 105)

SUPERSTRUCTURE

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d1(E)	2066	#5	20'-6"	
d2(E)	1548	#5	19'-4"	
d3(E)	16	#5	16'-0"	
d5(E)	64	#5	4'-0"	
d6(E)	720	#5	27'-4"	
d7(E)	456	#5	27'-0"	
d8(E)	420	#6	25'-5"	
d9(E)	780	#5	28'-7"	
d4(E)	494	#5	28'-3"	
c(E)	1286	#5	2'-5"	
c1(E)	1302	#5	5'-7"	
d(E)	1286	#4	3'-10"	
d1(E)	1286	#6	3'-9"	
d2(E)	344	#4	2'-0"	
d3(E)	18	#6	4'-1"	
d4(E)	404	#4	1'-7"	
d5(E)	40	#4	3'-3"	
d6(E)	404	#6	1'-7"	
d7(E)	40	#6	3'-3"	
d8(E)	30	#6	8'-11"	
e(E)	216	#5	22'-9"	
e1(E)	48	#5	11'-3"	
e2(E)	48	#5	11'-9"	
e3(E)	72	#5	24'-9"	
e4(E)	24	#5	12'-7"	
e5(E)	48	#5	30'-0"	
e6(E)	48	#5	27'-0"	
e7(E)	8	#5	3'-1"	
e8(E)	8	#5	6'-5"	
x(E)	128	#5	4'-1"	
x1(E)	48	#5	3'-11"	
Reinforcement Bars, Epoxy Coated		Pound	199,260	
High Performance Concrete Superstructure		Cu.Ft	968.2	
Bar Splicers		Ea.	1,807	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 3 - #15 etc. indicates 1 line of bars with 3 lengths per line.
E.F. = Each Face.
For Parapet Joint Detail see Sheet No. 13 of 31

REVISIONS	
NAME	DATE

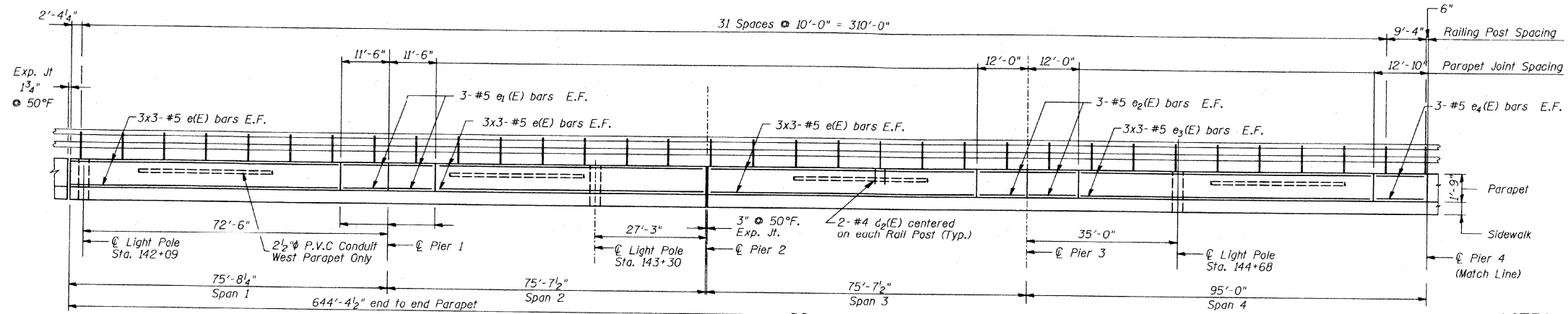
DECK DETAILS AND BILL OF MATERIAL
US. 51 S.B. OVER MILL STREET & NORFOLK SOUTHERN RR
F.A.S.RTE. 730 SECTION 612-1-VB
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 06-05-01

Revised 7/23/03 OAO - Entire Sheet

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CHECKED: S.T.
DRAWN: J.S.
CHECKED: O.A.O.
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CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

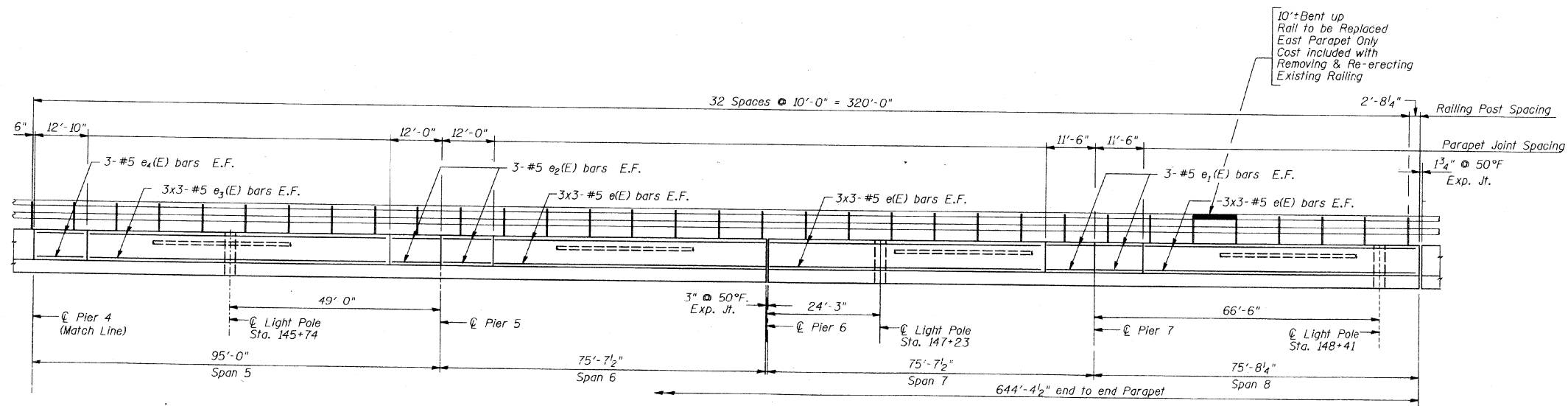
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 13 OF 31 SHEETS	ROUTE NO. S.B.1. F.A.P. 730	SECTION 612-1 VBR	COUNTY McLEAN	TOTAL SHEETS 52	SHEET NO. 19
FED. ROAD DIST. NO. 3			ILLINOIS FED. AID PROJECT-		



NOTES:

- See Sheet 12 of 31 for Superstructure Details and Bill of Material.
- For Aluminum Railing details see sht. 16 of 31.

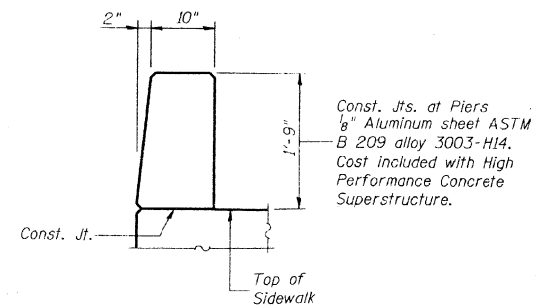


MIN. BAR LAP

- #4 - 1'-8"
- #5 - 2'-2"
- #6 - 2'-7"

INSIDE ELEVATION OF PARAPET

West Parapet Looking West
East Parapet similar
Light Poles are Located on West Parapet Only



ALUMINIUM PARAPET JOINT DETAILS

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BOLINGBROOK, ILLINOIS

REVISIONS	
NAME	DATE

PARAPET DETAILS
SHEET 1 OF 2
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P.RTE. 730-SECTION 612-1 VBR
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE : 09-18-01

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

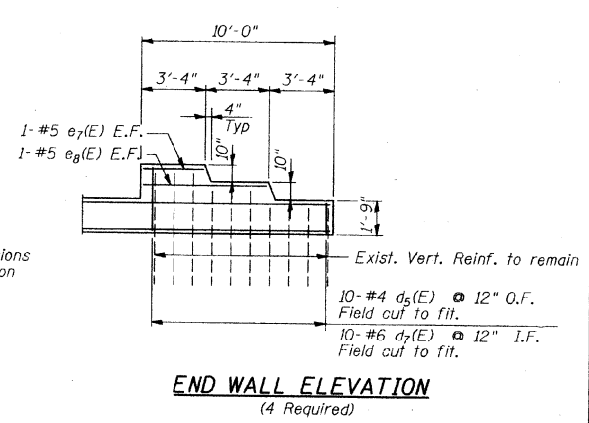
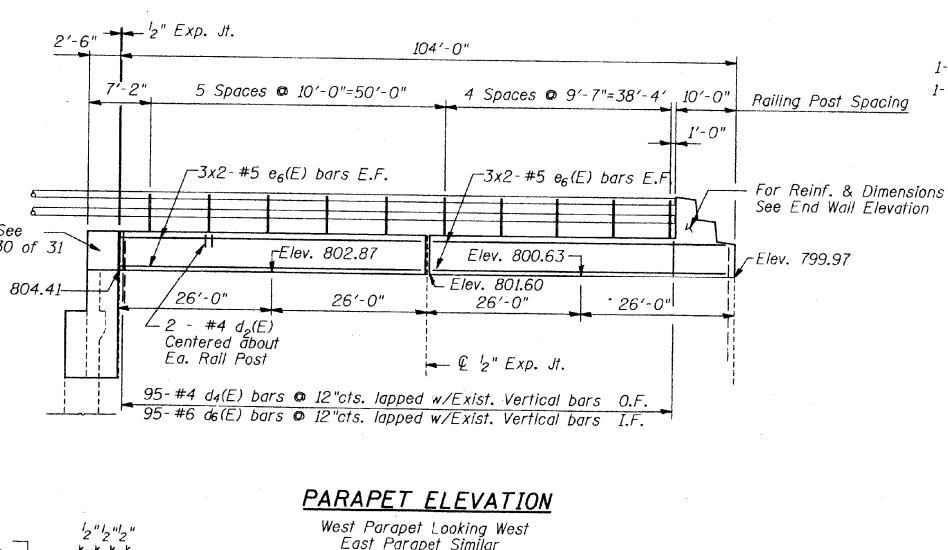
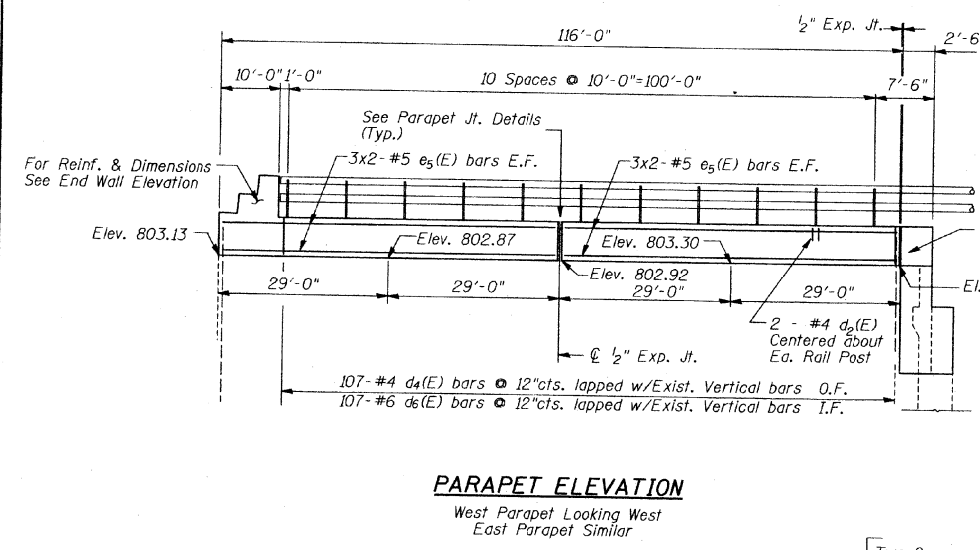
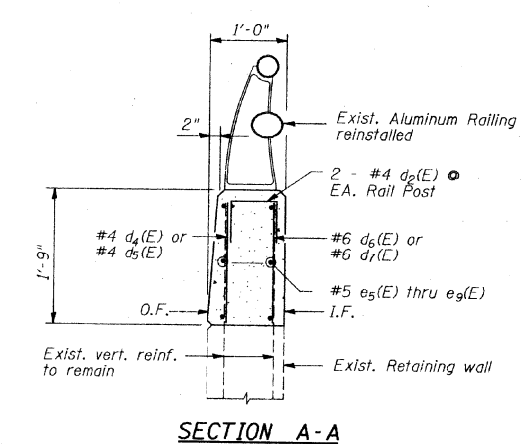
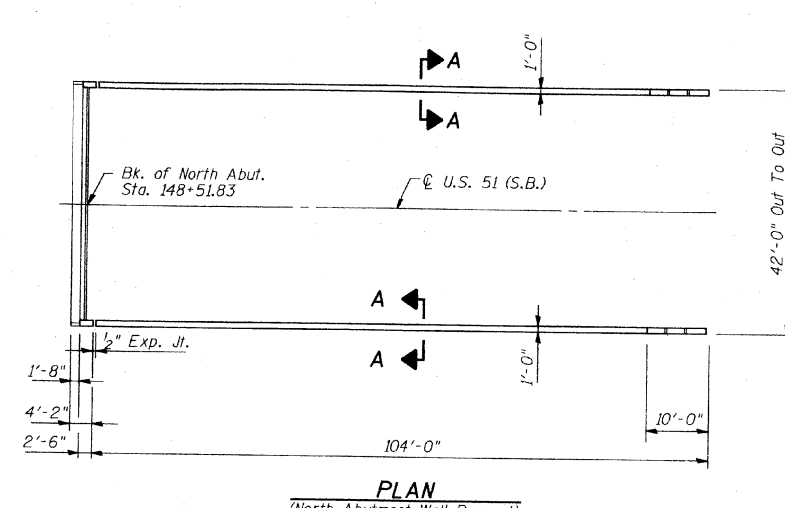
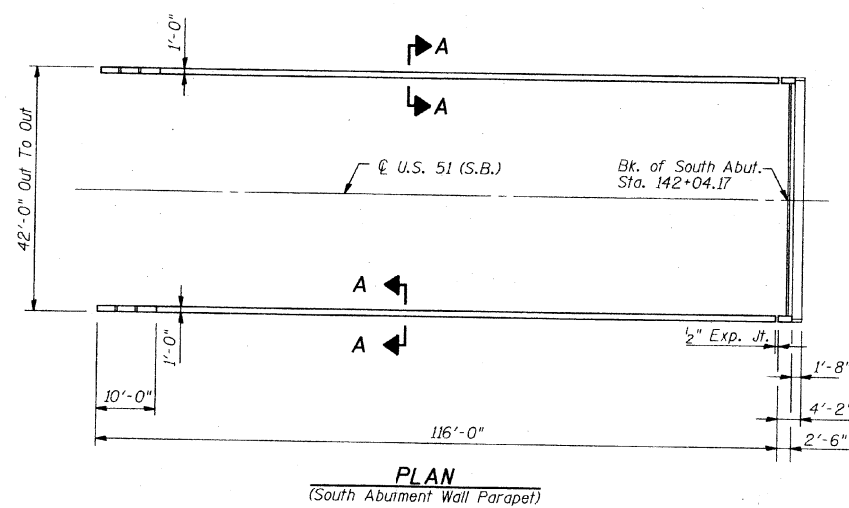
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(FOR INFORMATION ONLY)

SCALE: SHEET 6 OF 14 SHEETS STA. TO STA.

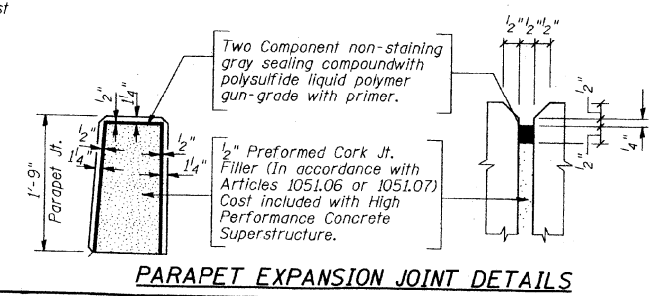
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CONTRACT NO. 70D14				ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 14 OF 31 SHEETS	ROUTE NO. S. B. I. F. A. P. 730 FED. ROAD DIST. NO. 3	SECTION 612-1 VBR	COUNTY MCLEAN ILLINOIS	TOTAL SHEETS 52	SHEET NO. 20
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LEGEND
I.F. = Inside Face
O.F. = Outside Face
E.F. = Each Face



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CHECKED : O.A.O.
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CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

Note:

- See Sheet 12 of 31 for Superstructure Details and Bill of Material.
- All vertical bars in the retaining wall to remain.

REVISIONS	
NAME	DATE

PARAPET DETAILS
SHEET 2 OF 2
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P.RTE. 730-SECTION 612-1 VBR
MCLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE : 09-18-01

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)
SCALE: SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 730	SECTION (612-1) BRR	COUNTY MCLEAN	TOTAL SHEETS 51	SHEET NO. 37
ILLINOIS			CONTRACT NO. 70D14	
FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

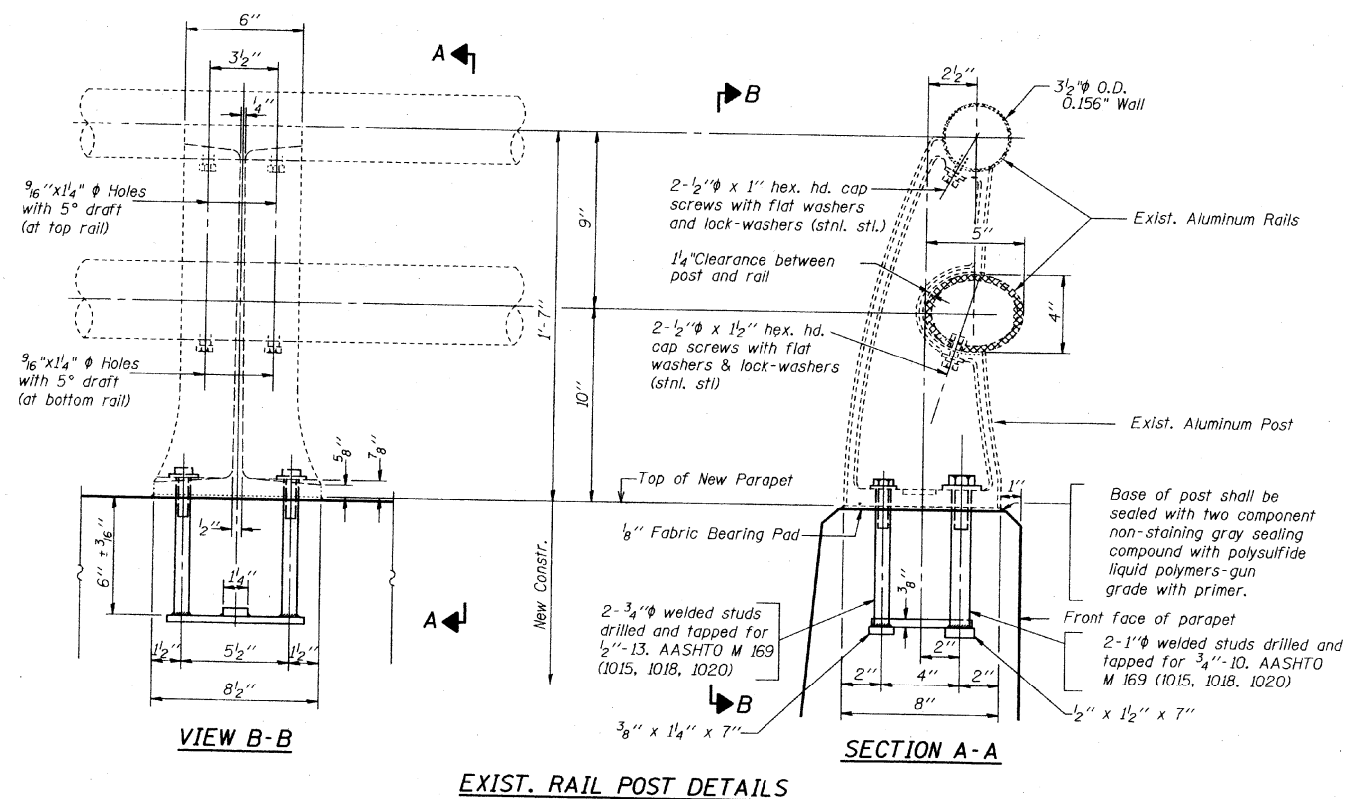
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FED. ROAD DIST. NO. 3			ILLINOIS	FED. AID PROJECT-	

Notes: All Posts shall be normal to parapet.

Provide 1-1/8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.

Railing shall be according to Section 509 of the Standard Specifications.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.



**REMOVING & REPLACING
EXISTING RAILING- PROCEDURE**

1. Remove hex head cap screws from base of each rail post.
2. Remove railing with posts attached and store at safe place with the approval of the Engineer. Removal will be done in pieces by disconnecting at appropriate rail splices.
3. Insert stud assemblies in new parapet at the existing locations before pouring concrete as shown in plan.
4. Repair and replace damaged parts of the rails and posts.
5. Reinstall existing railing at existing location on new parapet.

BILL OF MATERIAL

Item	Unit	Quantity
Removing and Re-erecting Existing Railing.	Foot	1,699

REVISIONS		EXISTING RAILING, TYPE L US. 51 S.B. OVER MILL STREET & NORFOLK SOUTHERN RR F.A.P. RTE. 730-SECTION 61Z-1 VBR MCLEAN COUNTY STA. 145+28.00 STRUCTURE NO. 057-6301 DATE: 09-18-01
NAME	DATE	

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CHECKED :	S.T.
DRAWN :	J.S.
CHECKED :	O.A.O.

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CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

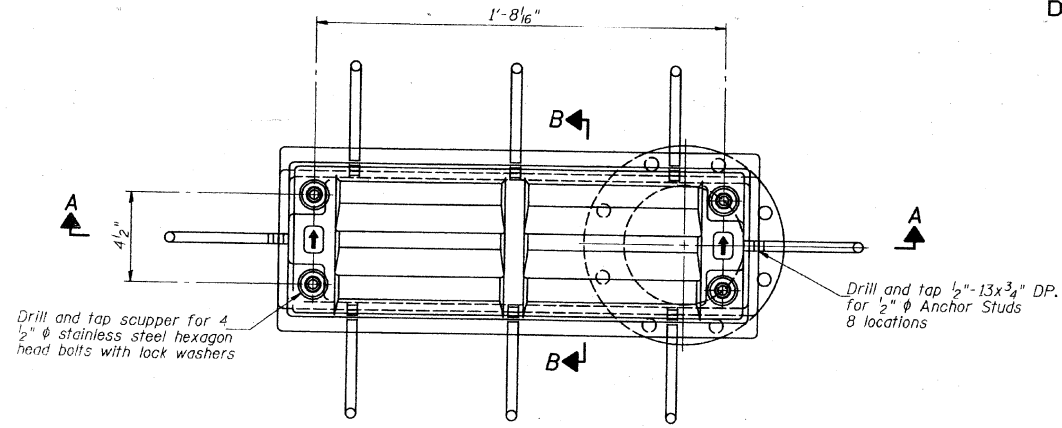
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SCALE:	SHEET 8 OF 14 SHEETS	STA.	TO STA.	F.A.P. RTE. 730	SECTION (61Z-1) BRR	COUNTY MCLEAN	TOTAL SHEETS 51	SHEET NO. 38
							CONTRACT NO. 70D14	
							ILLINOIS FED. AID PROJECT	

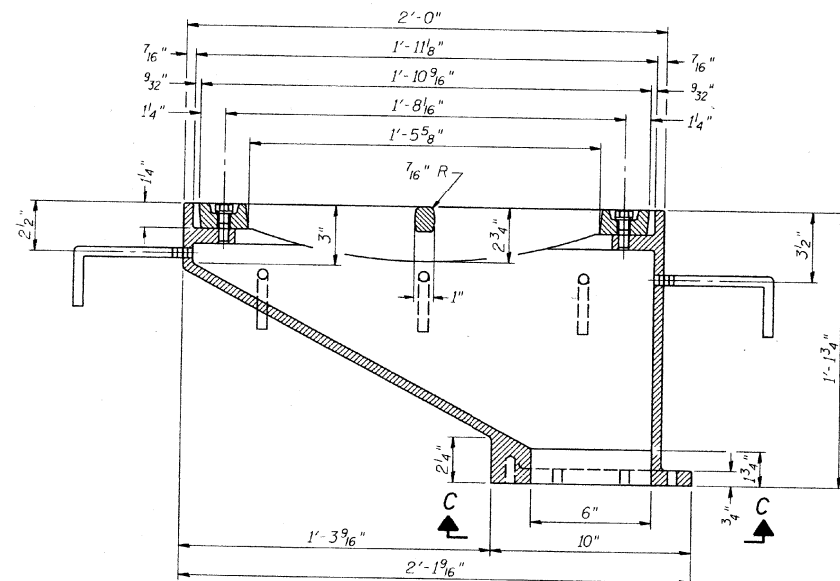
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 17 OF 31 SHEETS		ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT		

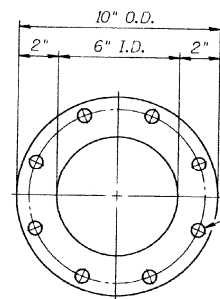


PLAN



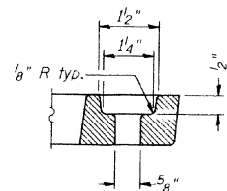
SECTION A-A

See sheet 9 & 10 of 31 for scupper location relative to parapet.

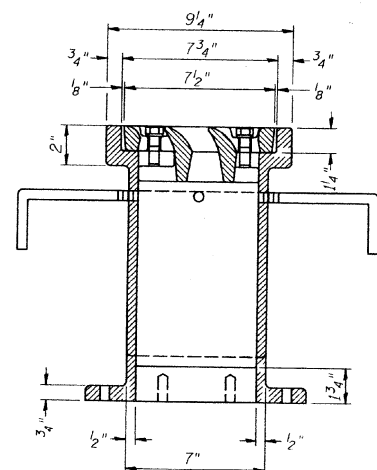


VIEW C-C

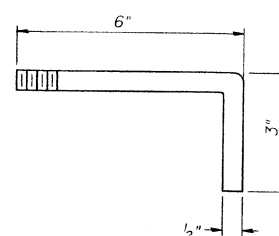
Drill and tap 8 holes for 1/2"-13 bolts on an 8 3/4" φ bolt circle. (2 blind holes are 1/4" deep, 6 thru holes)



BOLT HOLE DETAIL

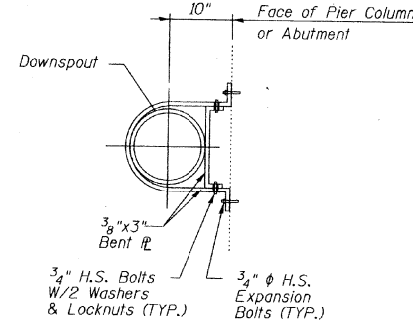


SECTION B-B

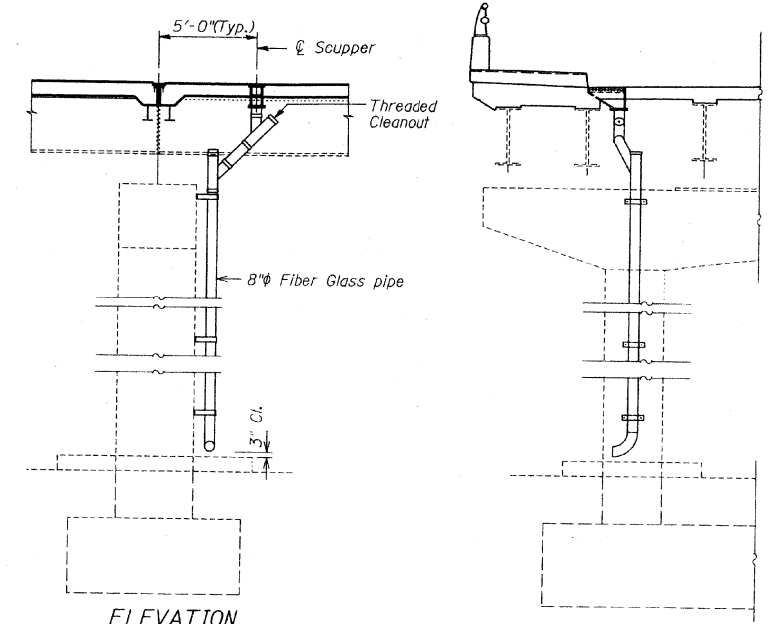


ANCHOR STUD DETAIL

Notes: All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B. Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232. The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam. As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications. Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper. Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scuppers, DS-12.



DETAIL TYPICAL PIPE SUPPORT CONNECTION



ELEVATION

PLAN

Note: Similar details at abutments

Fiberglass pipe shall conform to ASTM D2995 with short time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the fiberglass pipe shall be free of bond inhibiting agent. Bolts, nuts, rods and washers for "Drainage System" shall conform to the requirements of ASTM A307.

The Pay Item: "Drainage System" shall include providing and installing 8" φ fiberglass pipe, L's, T's, Reducer Elbows, Cleanouts, Inserts, Anchors, Hangers, Clamps, Concrete Pads and all other items necessary to complete the underdeck drainage system.

The drainage system shall be painted with paint specified for new structural steel.

Locate anchors to miss existing reinforcement.

For drainage pipe connection to roadway drainage system, See Roadway Plans.

BILL OF MATERIAL

Item	Unit	Quantity
Drainage System	L. Sum	1
Drainage Scuppers, DS-12	Each	8

REVISIONS	
NAME	DATE

DECK DRAINAGE DETAILS
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P. RTE. 730-SECTION 612-1 VBR
MCLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 09-18-01

DESIGNED: M.M.H.
CHECKED: S.T.
DRAWN: J.S.
CHECKED: O.A.O.
RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

USER NAME = brandenburgj	DESIGNED - TJB	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/24/2019	CHECKED -	REVISED -
	DATE - 6/5/2018	REVISED -

SCALE: SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 730	SECTION (612-1) BRR	COUNTY MCLEAN	TOTAL SHEETS 51	SHEET NO. 39
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 70D14				

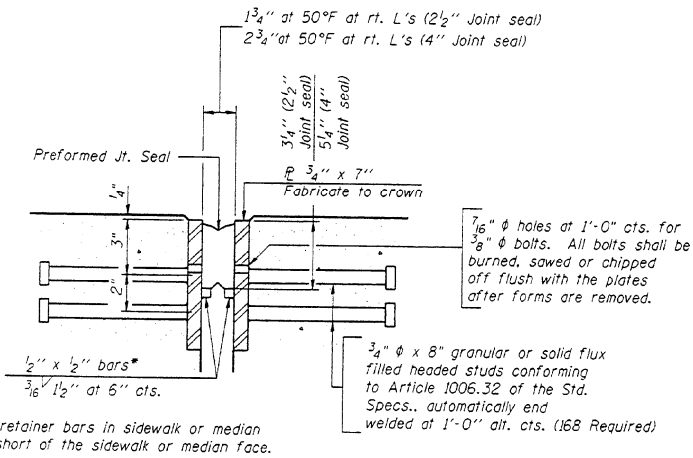
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 24A OF 31 SHEETS		ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		

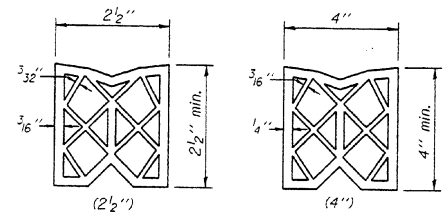
GENERAL NOTES

Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be $\frac{3}{16}$ ". Seal space with silicone sealant suitable for structural steel.

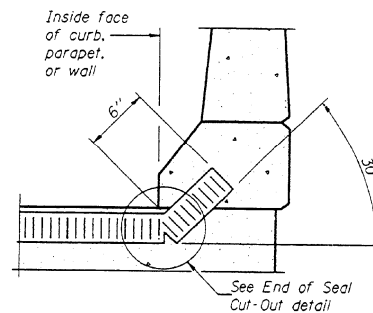
Joint Size	"C" at 50°F	"D" at 50°F
4"	3"	2 1/2" Min.



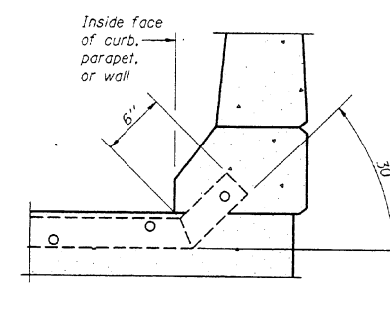
SECTION THRU EXPANSION JOINT
(2 1/2" and 4" joint seals)



PREFORMED JOINT SEAL

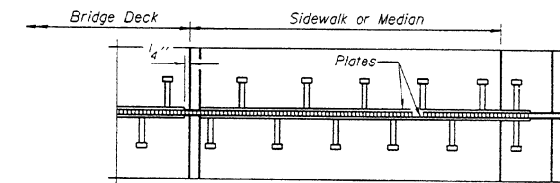


AT CURB, PARAPET, OR WALL
(Showing seal)

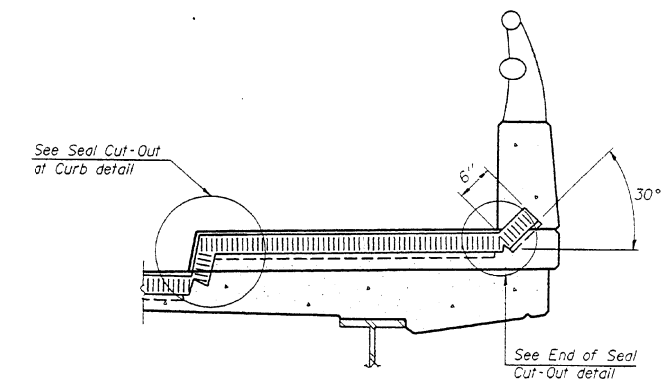


AT CURB, PARAPET, OR WALL
(Showing plate)

TYPICAL END TREATMENTS



PLAN AT SIDEWALK OR MEDIAN

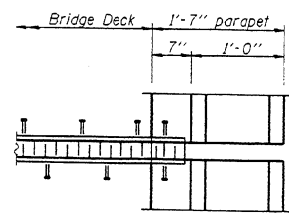


AT SIDEWALK OR MEDIAN*
(Showing plate and seal)

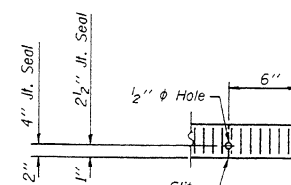
* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

BILL OF MATERIAL

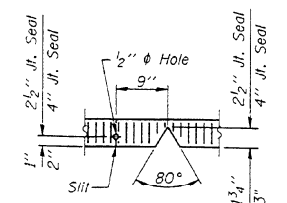
Item	Unit	Total
Bridge Joint System (Expansion)	foot	86



PLAN AT PARAPET



END OF SEAL CUT-OUT



SEAL CUT-OUT AT CURB

DESIGNED : M.M.H.
CHECKED : S.T.
DRAWN : J.S.
CHECKED : O.A.O.
RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

EJ-BJS 10-31-02

REVISED

Revised 7/23/03 OAO - Entire Sheet

REVISIONS	
NAME	DATE

BRIDGE JOINT SYSTEM
(Sheet 1 of 2)
US. 51 S.B. OVER
WILL STREET &
NORFOLK SOUTHERN RR
F.A.S.RTE. 730-SECTION 612-1-VB
MCLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 06-05-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

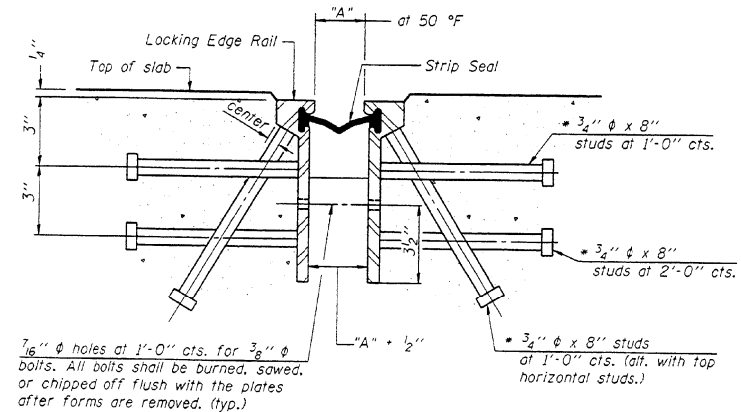
SCALE: SHEET 10 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(612-1) BRR	MCLEAN	51	40
CONTRACT NO. 70D14				
ILLINOIS		FED. AID PROJECT		

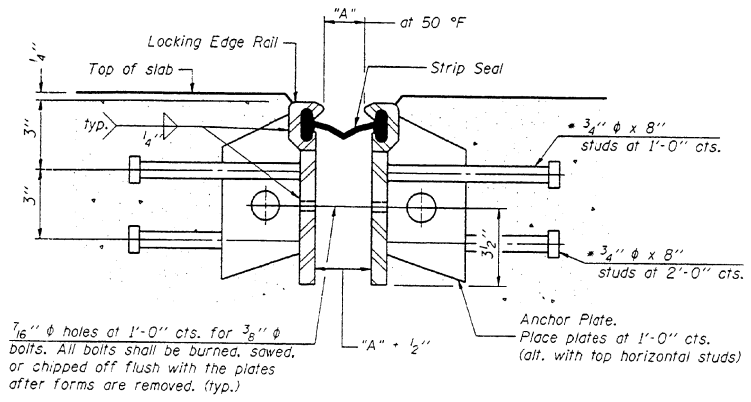
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	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 24B OF 31 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	S.B. 1.	61Z-1-VB	MCLEAN	52	308
	F.A.S. 730				
	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT		



Required Strip Seal rated movement	"A"
1"	1 1/8"
2"	1 3/4"



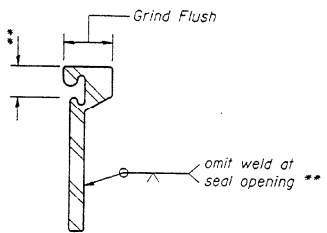
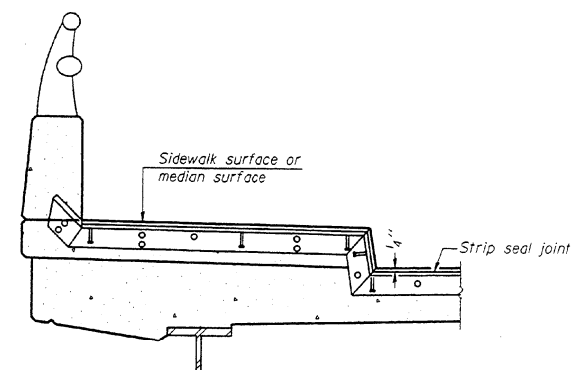
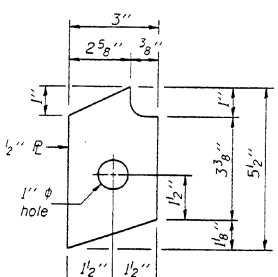
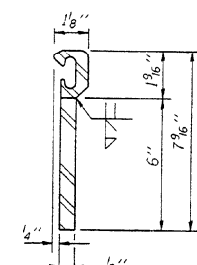
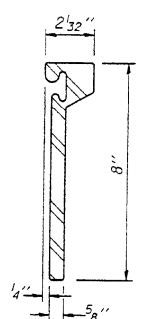
GENERAL NOTES

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

SECTION THRU ROLLED RAIL EXP. JOINT
(1,528 Studs Required)

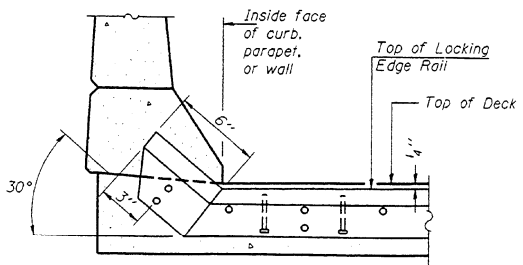
SECTION THRU WELDED RAIL EXP. JOINT
(944 Studs Required)
(584 Anchor Plates Required)

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



LOCKING EDGE RAIL SPLICE
The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



AT CURB, PARAPET, OR WALL

DESIGNED :	M.M.H.
CHECKED :	S.T.
DRAWN :	J.S.
CHECKED :	O.A.O.

RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

EJ-BJS 10-31-02

REVISED

REVISIONS	
NAME	DATE

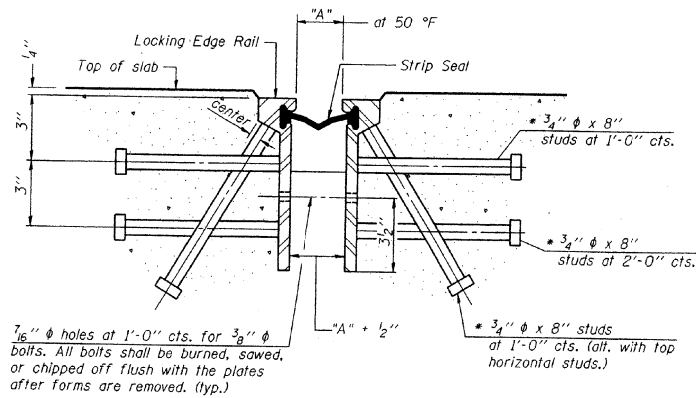
BRIDGE JOINT SYSTEM
(Sheet 2 of 2)
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.S.RTE. 730-SECTION 61Z-1-VB
MCLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 06-05-01

Revised 7/23/03 OAO - Entire Sheet

MODEL: \\MODEL\NAME: FILE: \\NAME: PROJECT: \\PROJECT\DOCUMENTS\DWG\PROJECTS\057001\11\CADD\Bridges\Structures\057001\11\11-11-11.dwg

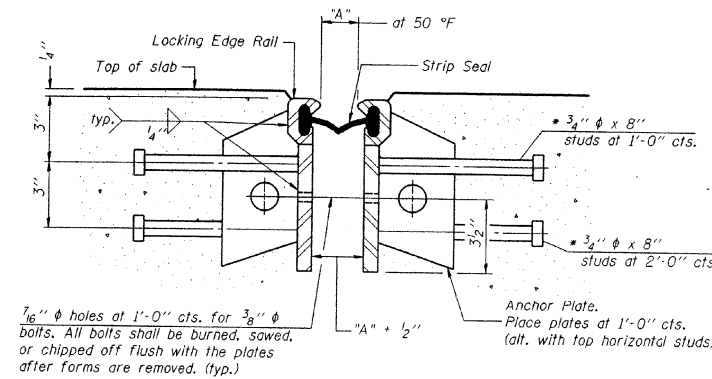
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 24B OF 31 SHEETS		ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		S. B. I. F. A. S. 730	61Z-1-VB	McLEAN	51	30B
		FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT		



SECTION THRU ROLLED RAIL EXP. JOINT
(Studs Required)

Required Strip Seal rated movement	"A"
1"	1 1/8"
2"	1 3/4"

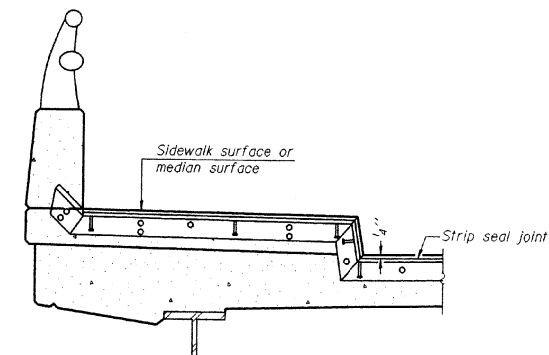
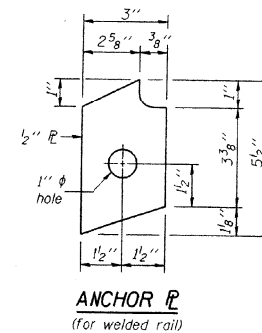
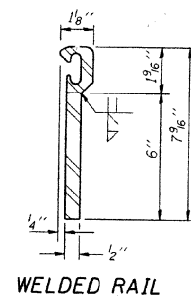
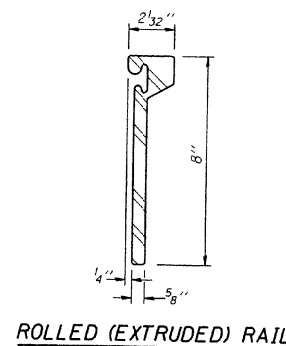


SECTION THRU WELDED RAIL EXP. JOINT
(Studs Required)
(Anchor Plates Required)

GENERAL NOTES

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

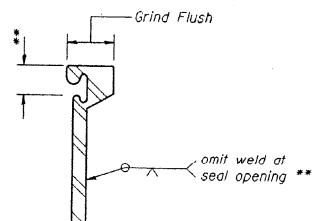
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically and welded.



AT SIDEWALK OR MEDIAN*

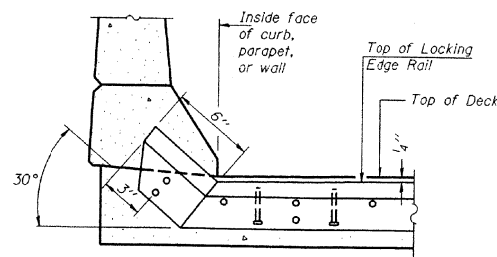
* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.



AT CURB, PARAPET, OR WALL

D:\REL\876\PROJECTS\DOT\853-8152\

DESIGNED :	M.M.H.
CHECKED :	S.T.
DRAWN :	J.S.
CHECKED :	M.M.H.

RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

EJ-BJS 10-31-02

REVISIONS	
NAME	DATE

BRIDGE JOINT SYSTEM
(Sheet 2 of 2)
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.S.RTE. 730-SECTION 61Z-1-VB
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 06-05-01

MODEL: S:\MODEL\MAME FILE NAME: P:\ILLINOIS\BIDDING\ITC\Illinois\pwr\PWIDOT\Documents\DOT\Office\Bldg\Structures\0570D14\cbr-hr-hr-hr.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

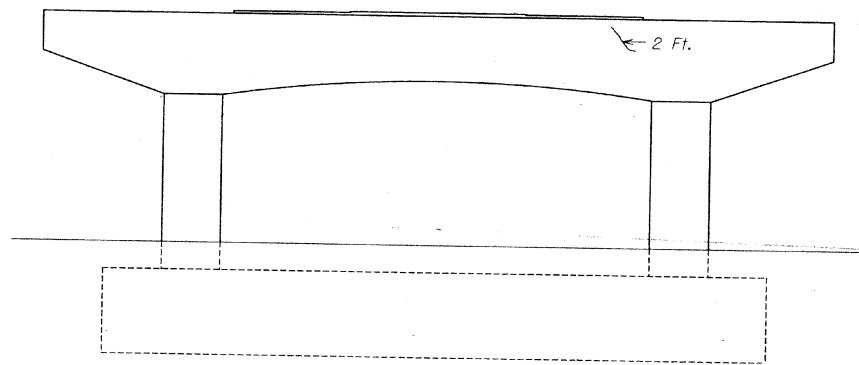
SCALE: SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	McLEAN	51	42
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

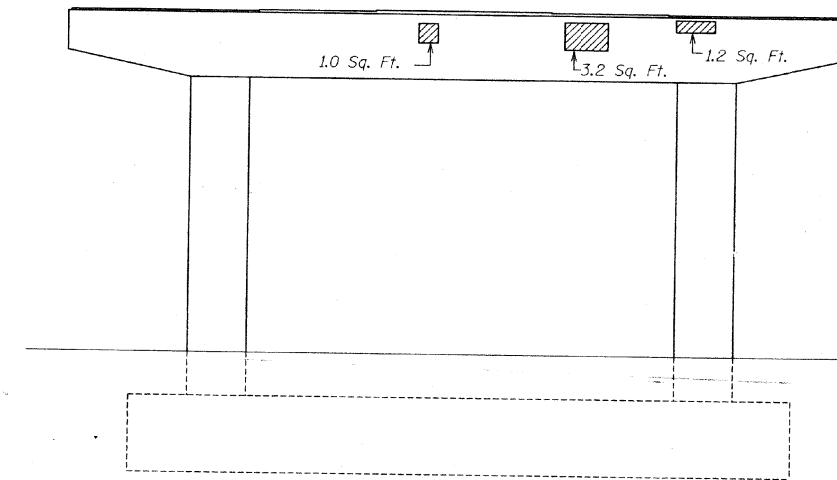
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 260F
31 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 730	61Z-1 VBR	MCLEAN	52	32
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		



NORTH ELEVATION - PIER 1



NORTH ELEVATION - PIER 2

BILL OF MATERIAL

Item	Unit	Quantity
High Performance Enhanced Shotcrete	Sq. Ft.	5.4
Epoxy Crack Sealing	Foot	2.0



High Performance Enhanced Shotcrete



Epoxy Crack Sealing

REVISIONS	
NAME	DATE

PIER REPAIR
SHEET 1 OF 3
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P. RTE. 730-SECTION 61Z-1 VBR
MCLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE: 09-18-01

DESIGNED : M.M.H.
CHECKED : S.T.
DRAWN : J.S.
CHECKED : O.A.G.

RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	43
CONTRACT NO. 70D14				
ILLINOIS			FED. AID PROJECT	

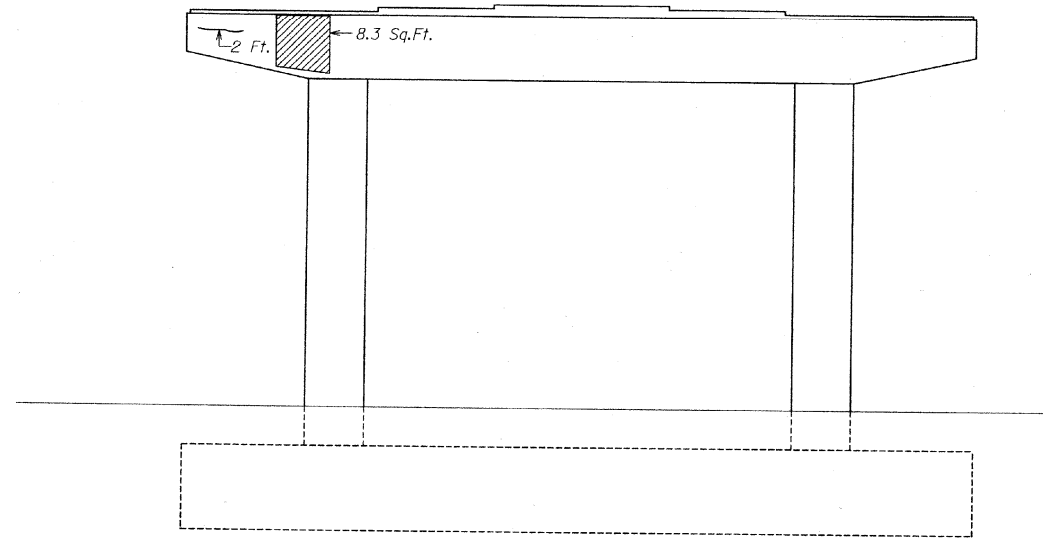
SCALE: SHEET 13 OF 14 SHEETS STA. TO STA.

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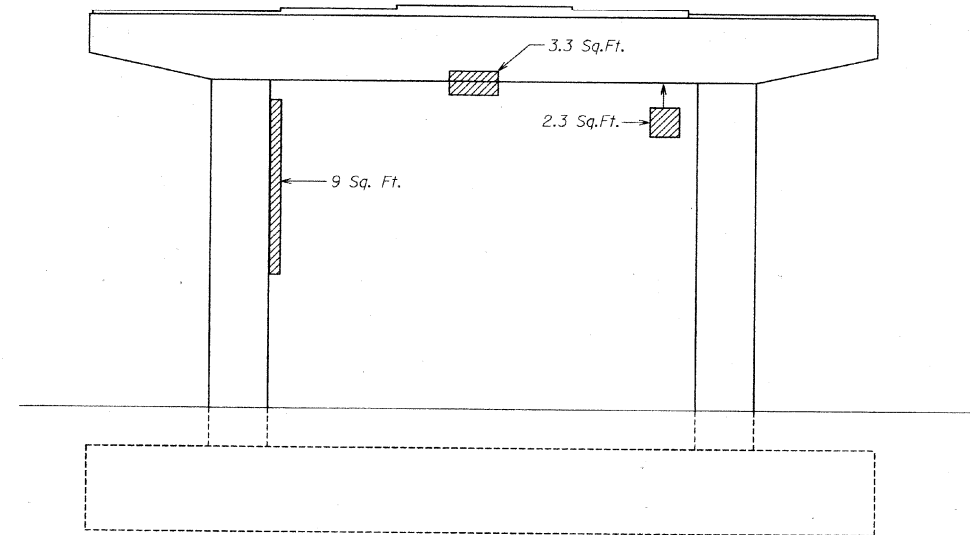
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 28 OF
31 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. 1.	61Z-1 VBR	McLEAN	52	34
F. A. P. 730				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		



NORTH ELEVATION - PIER 6



SOUTH ELEVATION - PIER 6

BILL OF MATERIAL

Item	Unit	Quantity
High Performance Enhanced Shotcrete	Sq. Ft.	22.9
Epoxy Crack Sealing	Foot	2.0



High Performance Enhanced Shotcrete



Epoxy Crack Sealing

DESIGNED : M.M.H.
CHECKED : S.T.
DRAWN : J.S.
CHECKED : O.A.O.

RAYMOND-BELING, INC.
CONSULTING ENGINEERS
BOLINGBROOK, ILLINOIS

REVISIONS	
NAME	DATE

PIER REPAIR
SHEET 3 OF 3
US. 51 S.B. OVER
MILL STREET &
NORFOLK SOUTHERN RR
F.A.P. RTE. 730-SECTION 61Z-1 VBR
McLEAN COUNTY
STA. 145+28.00
STRUCTURE NO. 057-6301
DATE : 09-18-01

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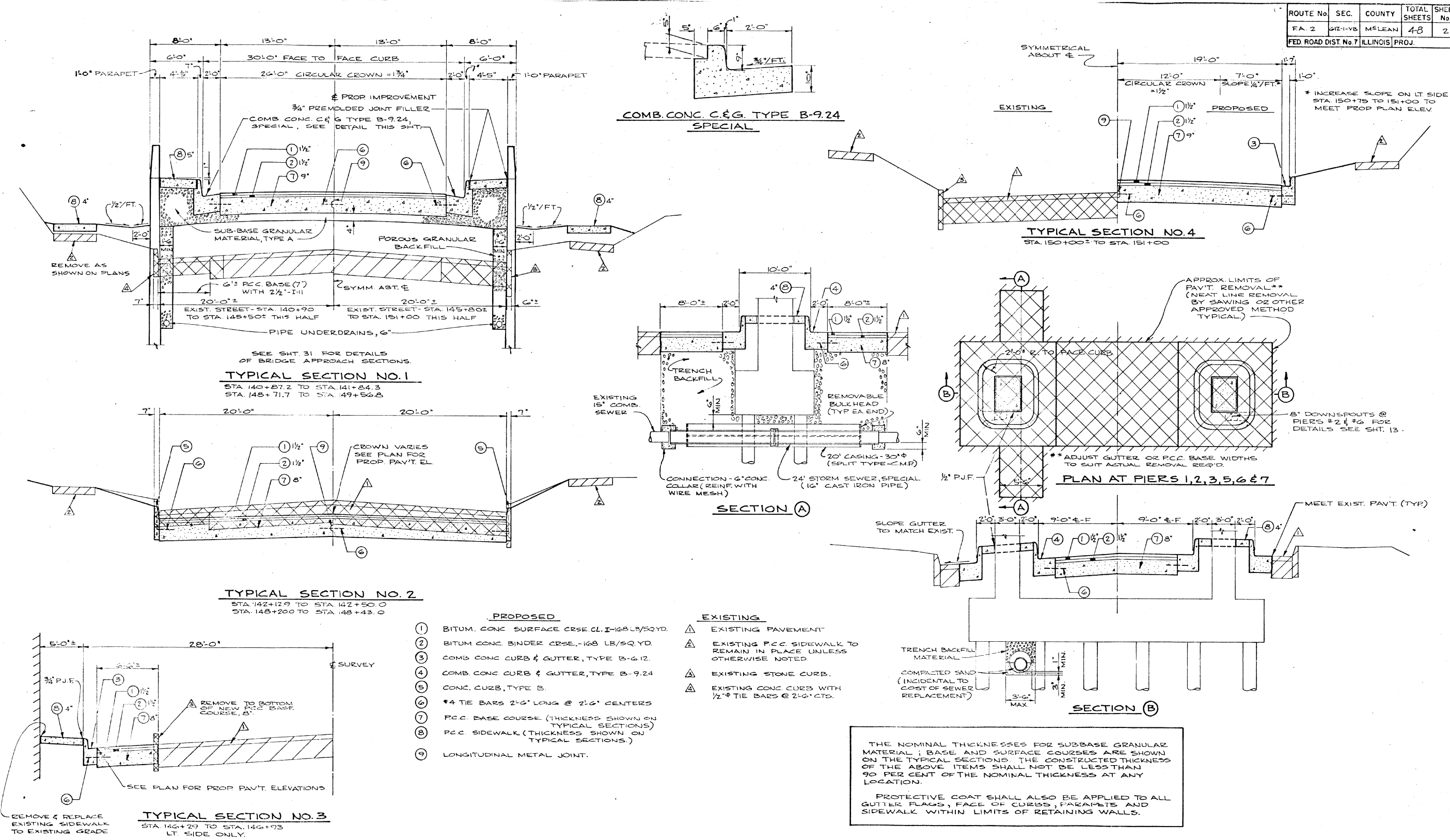
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PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 REHABILITATION 2004 BRIDGE PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	McLEAN	51	44
			CONTRACT NO. 70D14	
		ILLINOIS	FED. AID PROJECT	



- | | |
|--|--|
| PROPOSED | EXISTING |
| 1 BITUM. CONC. SURFACE CRSE. CL. I-168 LB/SQ.YD. | 1 EXISTING PAVEMENT |
| 2 BITUM. CONC. BINDER CRSE. - 168 LB/SQ.YD. | 2 EXISTING P.C.C. SIDEWALK TO REMAIN IN PLACE UNLESS OTHERWISE NOTED |
| 3 COMB. CONC. CURB & GUTTER, TYPE B-612. | 3 EXISTING STONE CURB. |
| 4 COMB. CONC. CURB & GUTTER, TYPE B-924 | 4 EXISTING CONC. CURB WITH 1/2" TIE BARS @ 2'-6" CTS. |
| 5 CONC. CURB, TYPE B. | |
| 6 #4 TIE BARS 2'-6" LONG @ 2'-6" CENTERS | |
| 7 P.C.C. BASE COURSE (THICKNESS SHOWN ON TYPICAL SECTIONS) | |
| 8 P.C.C. SIDEWALK (THICKNESS SHOWN ON TYPICAL SECTIONS.) | |
| 9 LONGITUDINAL METAL JOINT. | |

THE NOMINAL THICKNESSES FOR SUBBASE GRANULAR MATERIAL, BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

PROTECTIVE COAT SHALL ALSO BE APPLIED TO ALL GUTTER FLAPS, FACE OF CURBS, PARAPETS AND SIDEWALK WITHIN LIMITS OF RETAINING WALLS.

EXISTING STREET CONSTRUCTION

STREET TO STREET	STATION TO STATION	CONSTRUCTION				TOTAL
		BRICK OR P.C.C. BASE	SAND	BRICK	FIN. BINDER & SURF. CRSE.	
BEGINNING - "BIG 4" RR	139+80.0 - 145+51.5	4'	1'	4"	2 1/2"	11' 1/2"
"BIG 4" RR - END	145+51.5 - 151+40.0	5'	1'	4"	2 1/2"	12' 1/2"

* SEE "TYPICAL SECTION NO. 1" FOR CONSTRUCTION DETAILS OF WIDENED SECTIONS OF EXIST. PAV'T.

NOTE:
EXISTING STREET CONSTRUCTION TABULATION IS SHOWN ONLY FOR THE CONVENIENCE AND INFORMATION OF THE CONTRACTOR. IT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE DEPARTMENT, BUT IS NOT GUARANTEED.

TYPICAL SECTIONS & DETAILS

MODEL: \\MODELNAME; FILE: \\NAME; PROJECT: \\PROJECT; DRAWING: \\DRAWING; DATE: 6/5/2018

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PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

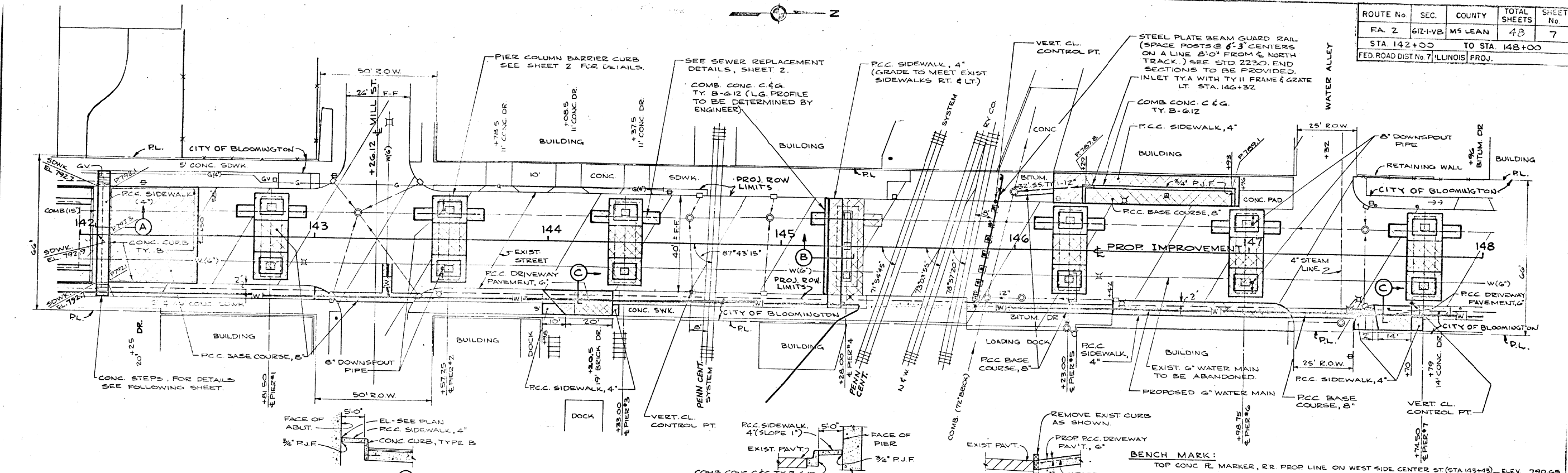
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**S.N. 057-6301 ORIGINAL 1971 BRIDGE PLANS
(FOR INFORMATION ONLY)**

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(612-1) BRR	M'LEAN	51	45
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

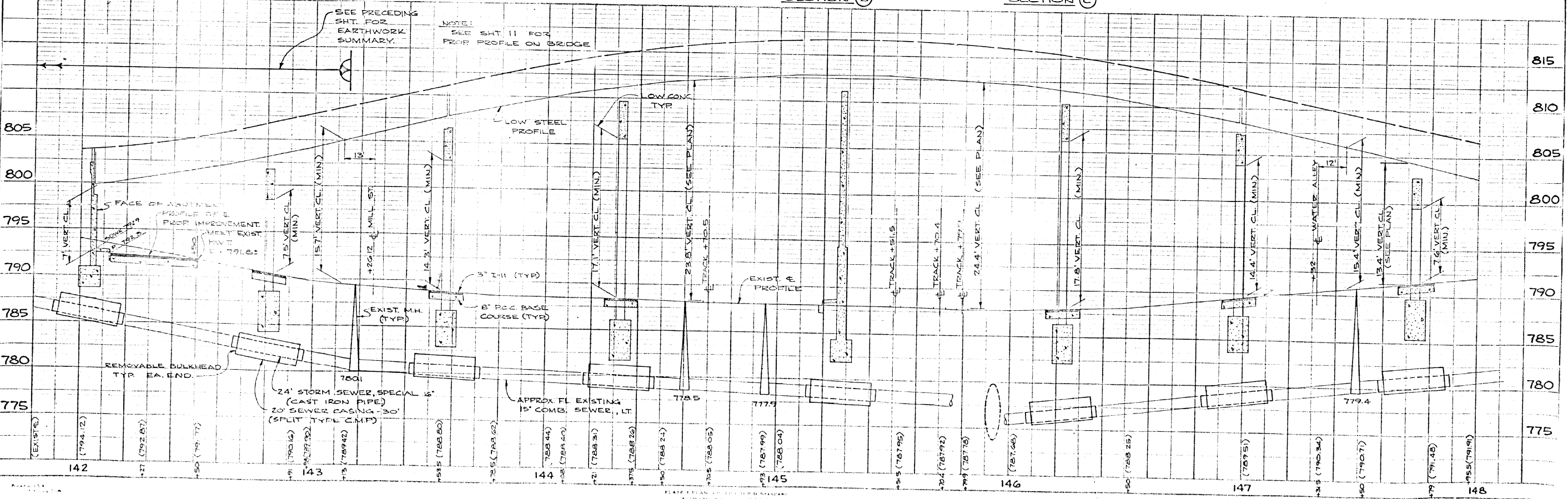
ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
FA 2	612-VB	MCLEAN	48	7
STA 142+00 TO STA 148+00				
FED. ROAD DIST No. 7 ILLINOIS PROJ.				



SECTION A

SECTION B

SECTION C



NOTE: SEE PRECEDING SHT. FOR EARTHWORK SUMMARY.
NOTE: SEE SHT. 11 FOR PROP. PROFILE ON BRIDGE

MODEL: 4\MODELS\BRR\FILE NAME: 057\05701\BRR\DOCUMENTS\DOT OFFICES\DIR01 3\PROJECTS\05701\14\CAD\DATA\STRUCTURES\05701\14\BRR\70114.dwg

USER NAME = brandenburgjt	DESIGNED - TJB	REVISED -
PLOT SCALE = 40.0000"/in.	DRAWN -	REVISED -
PLOT DATE = 1/24/2019	CHECKED -	REVISED -
	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 ORIGINAL 1971 BRIDGE PLANS
(FOR INFORMATION ONLY)

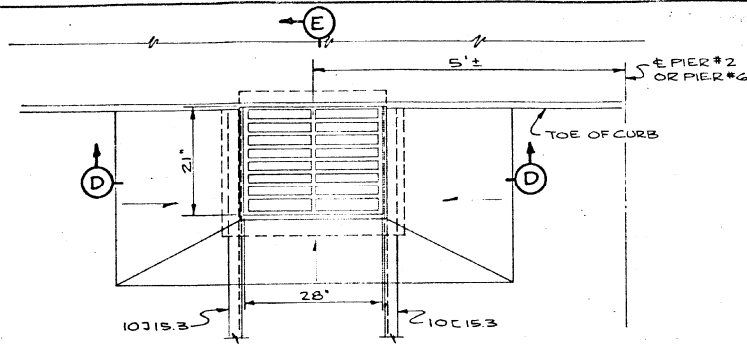
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(612-1) BRR	MCLEAN	51	46
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

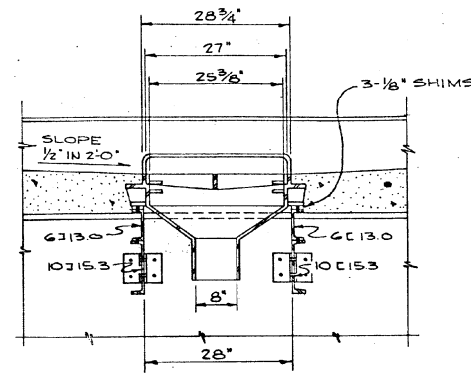
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHT. 4
OF 24

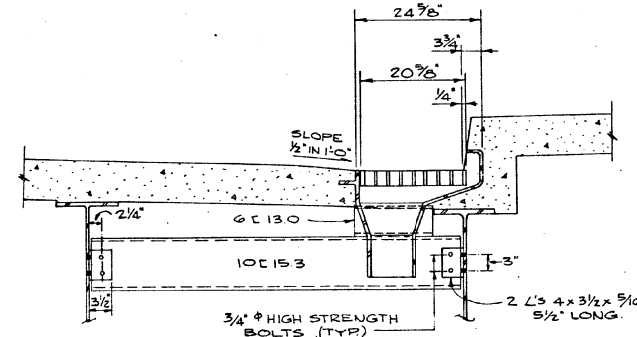
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. No. 7 ILLINOIS FED. AID PROJECT				



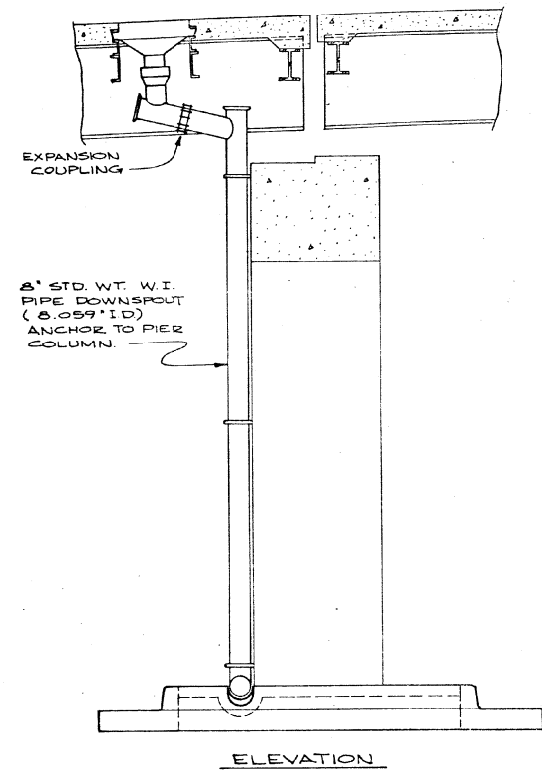
DECK DRAIN - PLAN
WEIGHT OF CASTING AND GRATE 550 LBS.



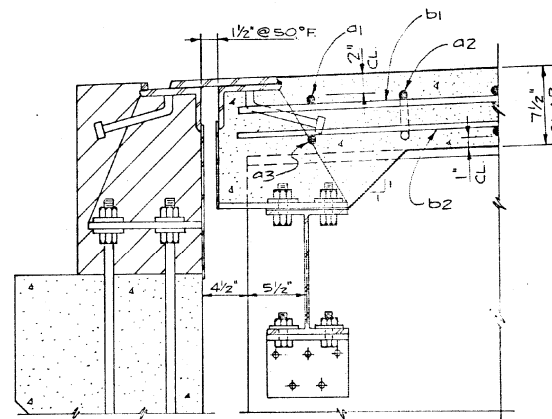
SECTION D



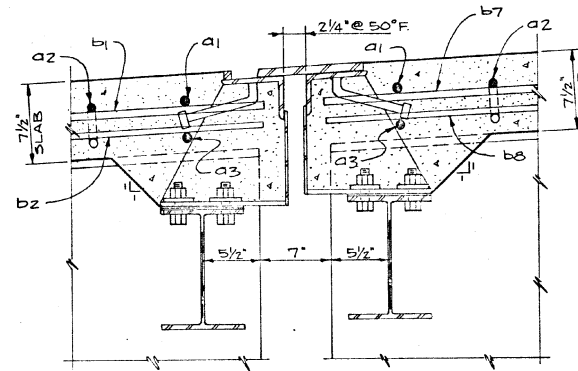
SECTION E



ELEVATION

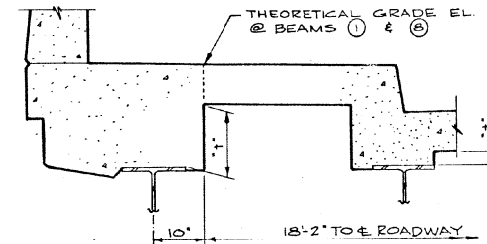


SECTION A



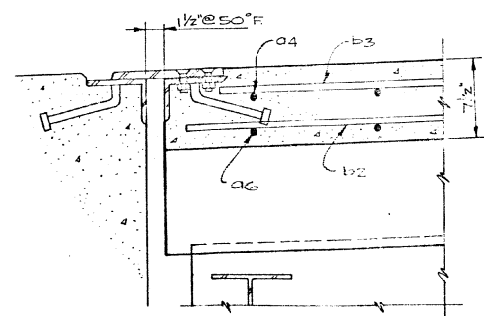
SECTION B

NOTE: SEE SHEET 9 FOR EXPANSION DEVICE DETAILS

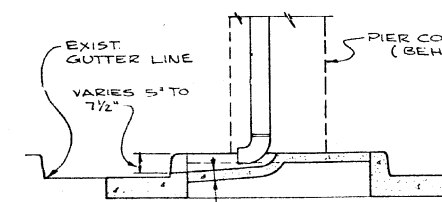


METHOD OF DETERMINING FILLET HEIGHTS

AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT THE STATIONS SHOWN ON SHTS 10411. THESE ELEVATIONS SUBTRACTED FROM THE THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION SHOWN ON SHTS 10411, MINUS FLOOR OR SIDEWALK SLAB THICKNESS EQUALS THE FILLET HEIGHTS ABOVE TOP FLANGE OF BEAMS. THE THEORETICAL GRADE ELEVATIONS TABULATED FOR FASCIA BEAMS 1 & 2 ARE THEORETICAL TOP OF SIDEWALK ELEVATIONS AT A POINT 18'-2" LEFT AND RIGHT OF ROADWAY.

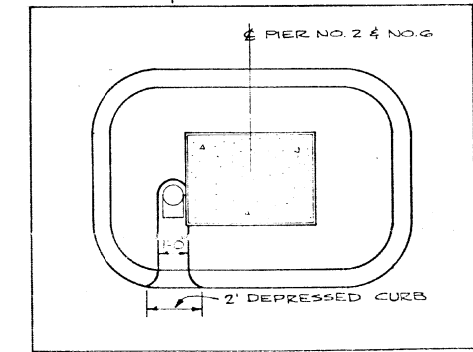


SECTION C



SECTION F

DOWN SPOUT DETAILS



PLAN

DESIGNED	EXAMINED
CHECKED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	PASSED
CHECKED	ENGINEER OF DESIGN
	APPROVED
	CHIEF HIGHWAY ENGINEER

ILLINOIS DIVISION OF HIGHWAYS
F.A. ROUTE 2
SECTION 61Z-1-VB MCLEAN COUNTY
SLAB DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 ORIGINAL 1971 BRIDGE PLANS
(FOR INFORMATION ONLY)

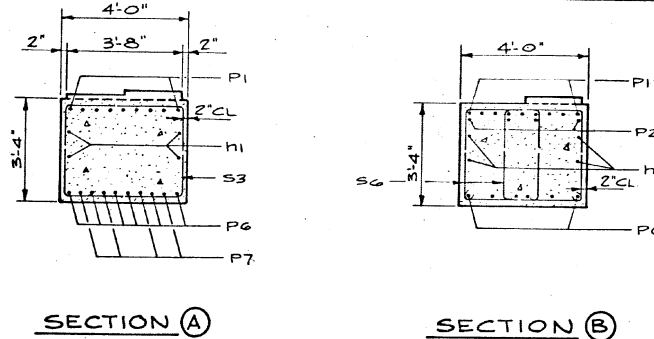
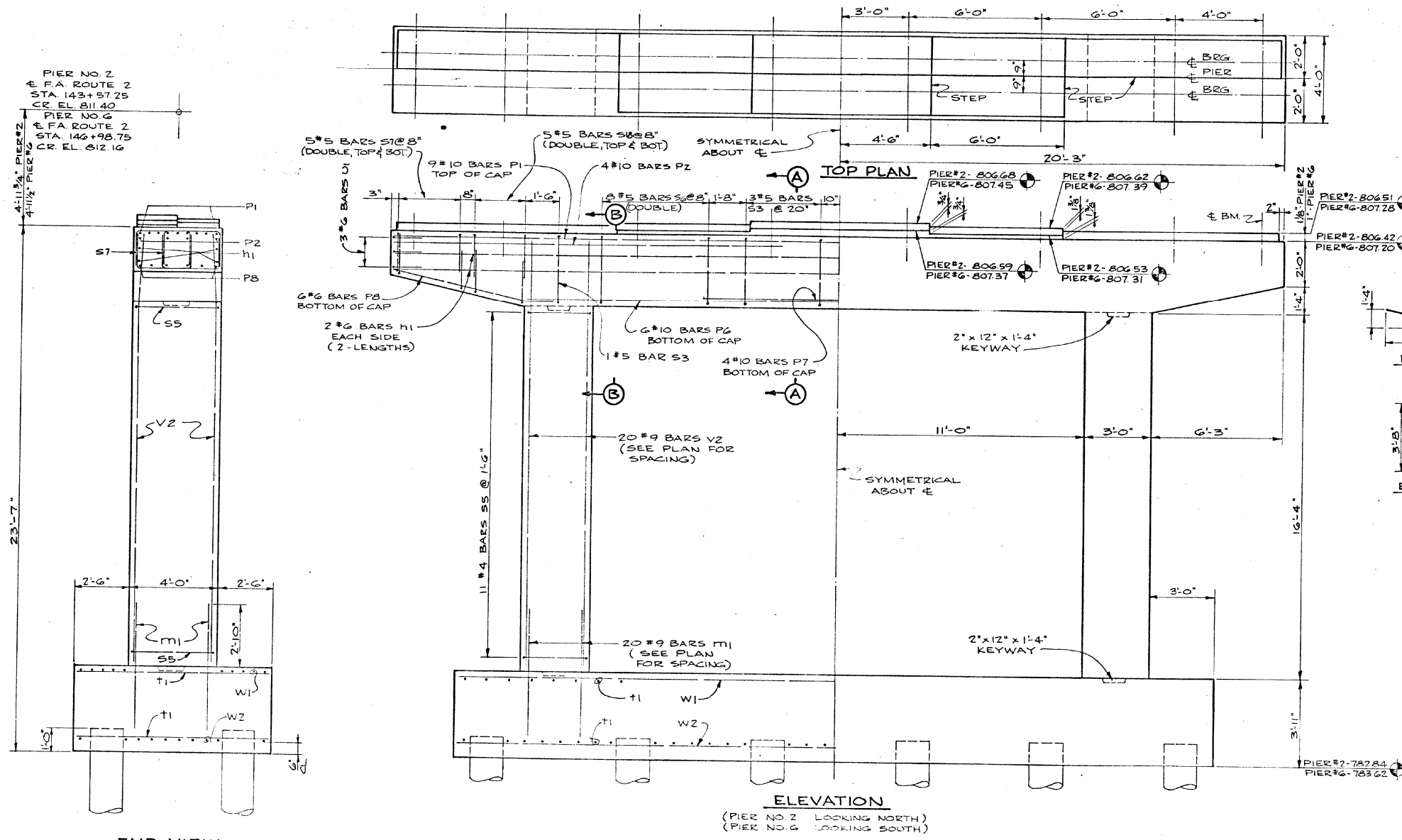
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	48
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

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

SHT. 16
OF 24

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 2	61Z-1-VB	MCLEAN	48	25
STA.	TO STA.			
FED. ROAD DIST. No. 7 ILLINOIS FED. AID PROJECT				



BAR LIST - ONE PIER

BAR NO.	SIZE	LENGTH	SHAPE
m1	#8	20'-9"	—
m1	#9	5'-8"	—
P1	#10	40'-3"	—
P2	#10	17'-8"	—
P6	#10	27'-6"	—
P7	#10	12'-0"	—
P8	#6	7'-6"	—
S3	#5	14'-3"	□
S5	#4	13'-5"	□
S6	#5	11'-9"	—
S7	#5	5'-11"	□
S8	#5	6'-5"	□
T1	#6	8'-6"	—
U1	#6	6'-6"	□
V2	#9	19'-3"	—
W1	#10	33'-6"	—
W2	#8	33'-6"	—

BILLS OF MATERIALS

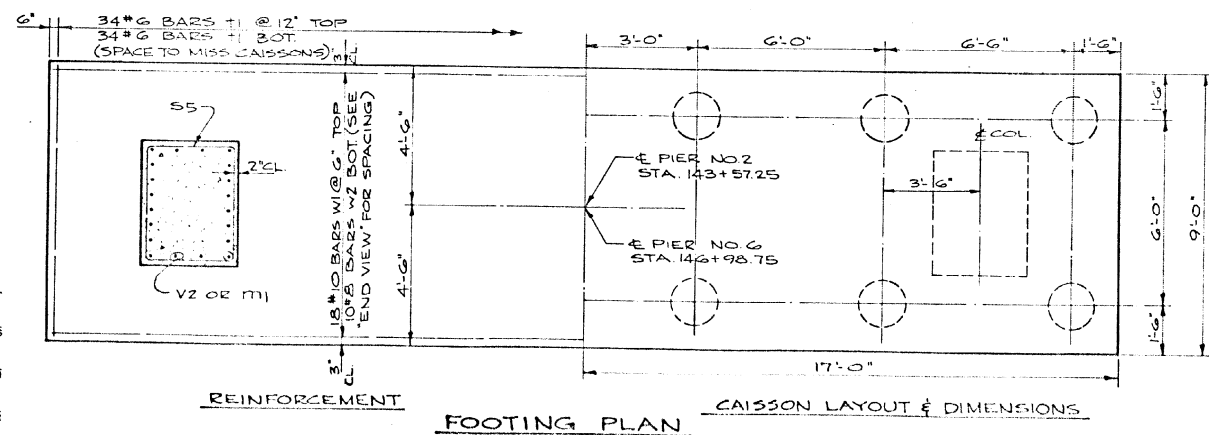
PIER NO. 2			
CLASS X CONCRETE	CUYD	78.1	
REINFORCEMENT BARS	LBS	12,500	
CL A EXCAV FOR STRUCT.	CUYD	88	
CAISSON CONCRETE	CUYD	25.0	
DRILLED PILES, 14"φ	LNFT	540	

PIER NO. 6			
CLASS X CONCRETE	CUYD	78.1	
REINFORCEMENT BARS	LBS	12,500	
CL A EXCAV FOR STRUCT.	CUYD	88	
CAISSON CONCRETE	CUYD	25.0	
DRILLED PILES, 14"φ	LNFT	540	

CAISSON DATA

- SHAFT DIA. = 1'-6"
- BELL DIA. = 4'-10"
- ALLOWABLE BRG. PRESSURE = 2.5 TON/SF
- CAPACITY = 100 KIPS
- EST. LENGTH = 16 FT.
- NO. REQ'D = 12 EACH PIER

DESIGNED M. Names	EXAMINED	19
CHECKED R. Prabhakar	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN L. SOHN	PASSED	ENGINEER OF DESIGN
CHECKED M. Names	APPROVED	CHIEF HIGHWAY ENGINEER



ALTERNATE DRILLED PILES-14"φ
CAPACITY = 100 KIPS
EST. LENGTH = 45 FT.
NO. REQ'D = 12 EA. PIER

SEE SHT 15 FOR PIER NOTES AND SHT 4 FOR DOWNSPOUT DETAILS.

ILLINOIS DIVISION OF HIGHWAYS
F.A. ROUTE 2
SECTION 61Z-1-VB MCLEAN COUNTY
PIER NO. 2 & NO. 6

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PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/24/2019	CHECKED -	REVISED -
	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

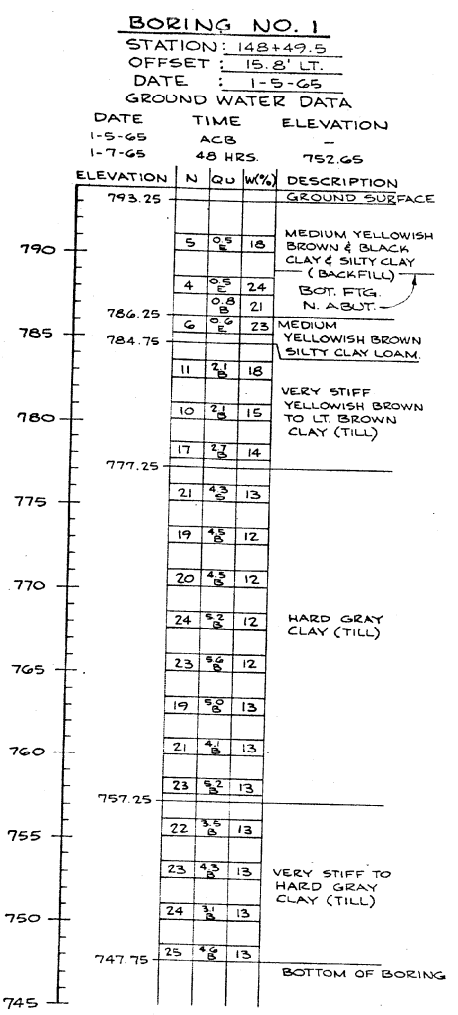
S.N. 057-6301 ORIGINAL 1971 BRIDGE PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

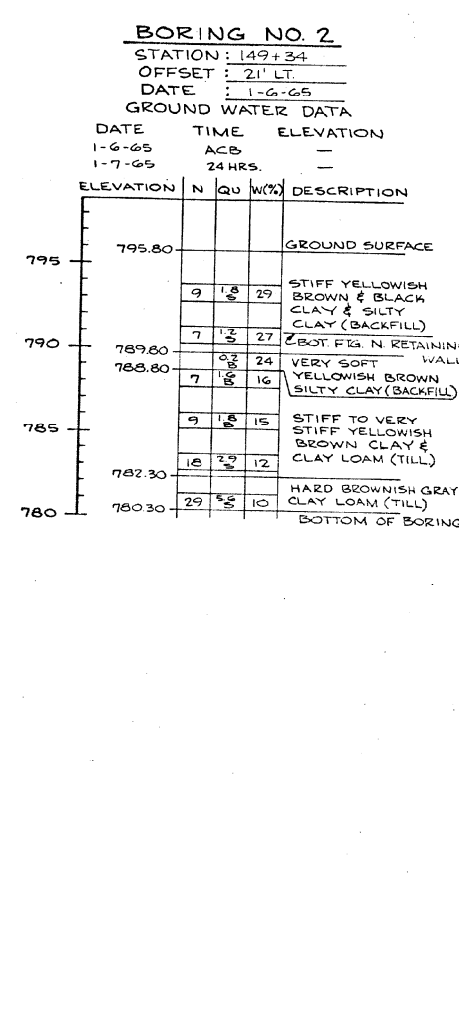
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	49
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				

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

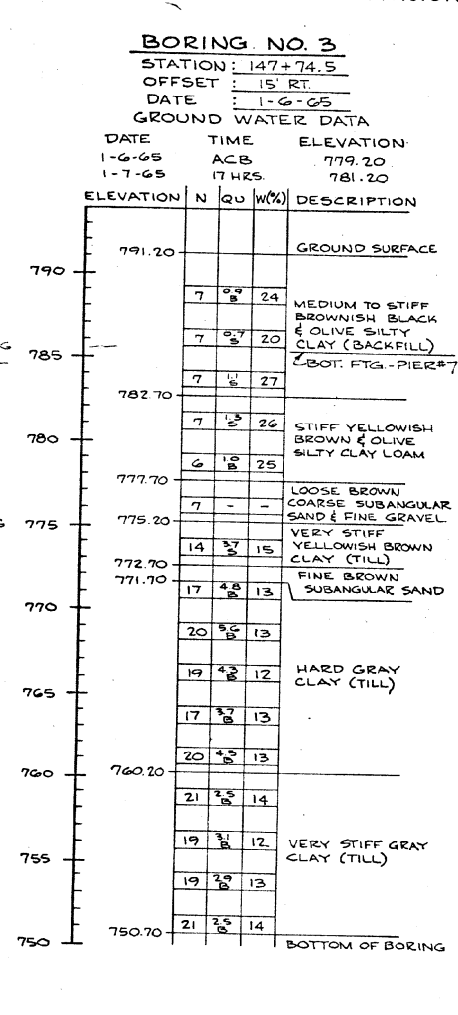
SHT. OF 24	ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
23	FA. 2	612-1-VB	MCLEAN	48	32
	STA.	TO STA.			
	FED. ROAD DIST. No. 7	ILLINOIS	FED. AID PROJECT		



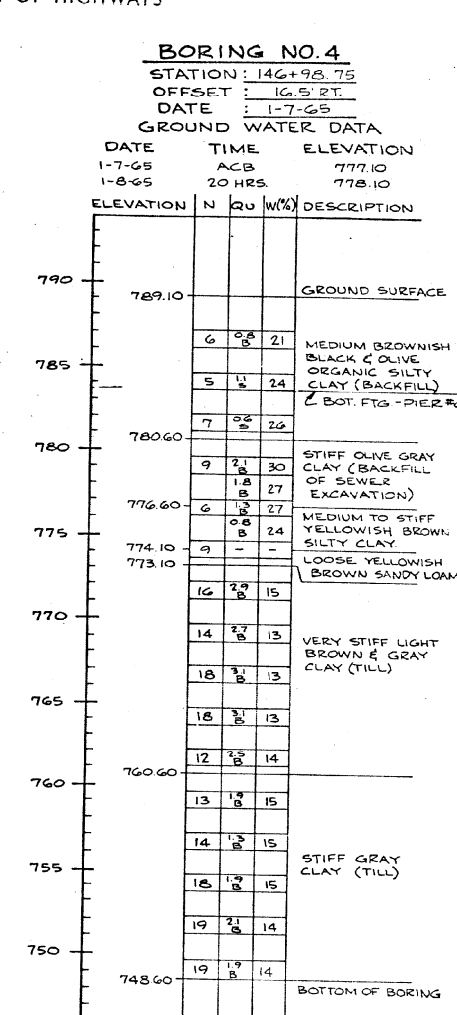
NORTH ABUTMENT



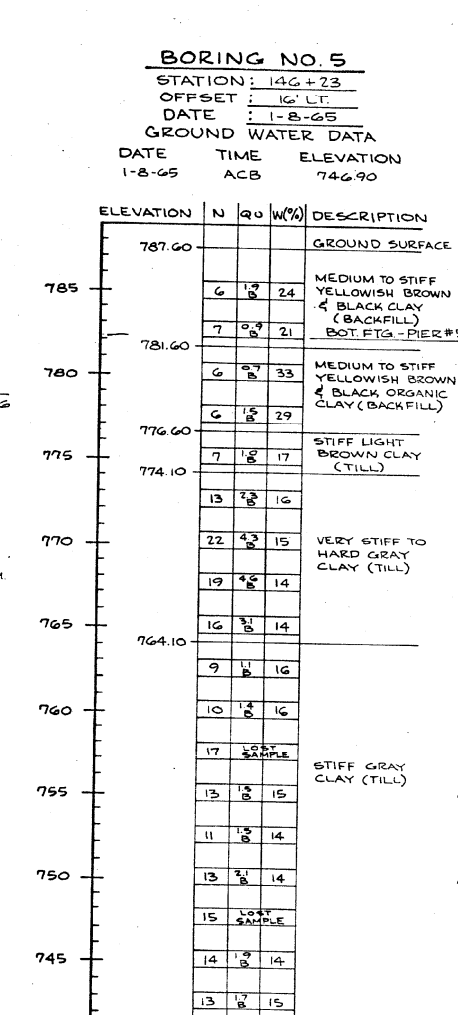
NORTH RETAINING WALL



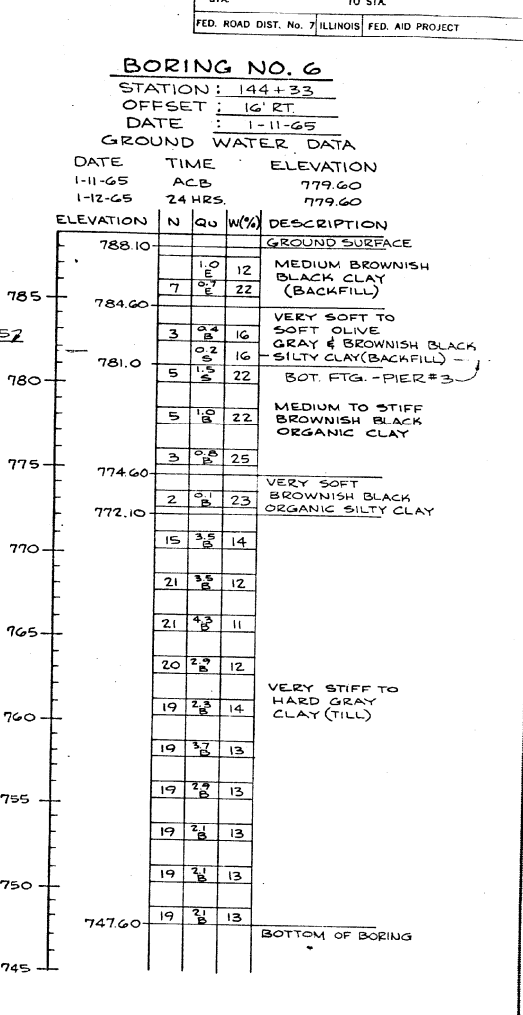
PIER NO. 7



PIER NO. 6



PIER NO. 5



PIER NO. 3

BORING LEGEND:
N - STANDARD PENETRATION TEST - BLOWS PER FOOT TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# HAMMER FALLING 30".
QU - UNCONFINED COMPRESSIVE STRENGTH - t/sf.
W - WATER CONTENT - PERCENTAGE OF OVEN DRY WEIGHT - %.
ACB - AT COMPLETION OF BORING.
TYPE FAILURE:
B = BULGE FAILURE
S = SHEAR FAILURE
E = ESTIMATED VALUE

DESIGNED	EXAMINED
CHECKED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN L. SOIN	PASSED
CHECKED J. J. Green	APPROVED
	ENGINEER OF DESIGN
	CHIEF HIGHWAY ENGINEER

ILLINOIS DIVISION OF HIGHWAYS
FA ROUTE 2
SECTION 612-1-VB MCLEAN COUNTY
BORING DATA
SHEET 1

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PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/24/2019	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 ORIGINAL 1971 BRIDGE PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(612-1) BRR	MCLEAN	51	50
CONTRACT NO. 70D14				
ILLINOIS			FED. AID PROJECT	

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

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 2	61Z-1-VB	MCLEAN	48	33
STA.	TO STA.			
FED. ROAD DIST. No. 7 ILLINOIS FED. AID PROJECT				

BORING NO. 7

STATION: 145+28
OFFSET: 15.3' LT.
DATE: 1-12-65
GROUND WATER DATA
DATE TIME ELEVATION
1-12-65 ACB 777.75
1-13-65 30 HRS. 777.25

ELEVATION	N	QU	W(%)	DESCRIPTION
787.75				GROUND SURFACE
785	7	1.5	16	STIFF TO MEDIUM BROWNISH BLACK & YELLOWISH BROWN CLAY (BACKFILL)
783.25	5	0.5	20	
780	5	0.5	20	BOT. FTG. - PIER #4
775	3	0.7	30	STIFF TO MEDIUM BLACK & BROWNISH BLACK ORGANIC CLAY.
771.75	2	0.5	30	
770.75	12	0.2	31	VERY SOFT YELLOWISH BROWN & BLACK ORGANIC CLAY.
765	22	4.5	14	VERY STIFF TO HARD YELLOWISH BROWN & GRAY CLAY (TILL)
761.75	20	2.5	17	
760	20	1.5	30	STIFF GRAY CLAY (TILL)
755	17	1.5	13	
751.75	19	2.3	14	VERY STIFF GRAY CLAY (TILL)
745	16	1.5	14	
741.75	17	1.5	14	STIFF GRAY CLAY (TILL)
735	21	1.5	13	
731.75	19	1.5	14	VERY STIFF GRAY CLAY (TILL)
730	20	2.1	13	
727.25	20	2.3	13	BOTTOM OF BORING

PIER NO. 4

BORING NO. 8

STATION: 143+57.25
OFFSET: 16' RT.
DATE: 1-13-65
GROUND WATER DATA
DATE TIME ELEVATION
1-13-65 ACB 780.40

ELEVATION	N	QU	W(%)	DESCRIPTION
790				GROUND SURFACE
788.40	7	1.5	25	STIFF YELLOWISH BROWN & BROWNISH BLACK CLAY (BACKFILL)
785	5	1.0	-	
783.90	5	1.0	29	BOT. FTG. - PIER #2
780	7	1.2	30	STIFF BROWNISH BLACK ORGANIC CLAY.
777.40	6	1.3	24	
775	4	0.7	26	SOFT TO MEDIUM YELLOWISH BROWN CLAY (TILL)
772.40	3	0.4	29	
770	26	4.0	13	HARD GRAY CLAY (TILL)
765	22	4.5	12	
762.40	21	4.5	13	
760	20	2.0	15	VERY STIFF GRAY CLAY (TILL)
755	19	3.7	13	
752.90	18	2.7	14	BOTTOM OF BORING

PIER NO. 2

BORING NO. 9

STATION: 142+82.5
OFFSET: 16.3' RT.
DATE: 1-14-65
GROUND WATER DATA
DATE TIME ELEVATION
1-14-65 ACB -
1-18-65 90 HRS. 776.90

ELEVATION	N	QU	W(%)	DESCRIPTION
790				GROUND SURFACE
789.90	13	1.0	21	STIFF YELLOWISH BROWN SILTY CLAY.
785.40	7	0.25	22	VERY SOFT BLACK ORGANIC CLAY LOAM
783.90	23	5.4	13	HARD YELLOWISH BROWN & GRAY CLAY LOAM (TILL)
780	21	4.1	12	
778.90	17	2.7	12	BOT. FTG. PIER #1
775	15	3.7	14	
770	15	3.3	14	VERY STIFF BROWNISH GRAY CLAY (TILL)
765	18	2.9	13	
760	16	3.1	14	
755	16	2.8	14	
750	20	2.1	14	
749.40	19	2.9	13	BOTTOM OF BORING

PIER NO. 1

BORING NO. 10

STATION: 141+46.50
OFFSET: 21.5' RT.
DATE: 1-18-65
GROUND WATER DATA
DATE TIME ELEVATION
1-18-65 ACB 785.10

ELEVATION	N	QU	W(%)	DESCRIPTION
795				GROUND SURFACE
792.80	5	0.7	25	MEDIUM YELLOWISH BROWN & BLACK SILTY CLAY (BACKFILL)
790	5	0.9	22	BOT. FTG. S. RETAINING WALL
787.80	13	0.6	22	
785	20	4.0	12	STIFF TO VERY STIFF BROWN CLAY LOAM (TILL)
780	17	1.5	14	
780.80	29	3.1	14	BOTTOM OF BORING

SOUTH RETAINING WALL

BORING NO. 11

STATION: 142+06.5
OFFSET: 15.6' LT.
DATE: 1-19-65
GROUND WATER DATA
DATE TIME ELEVATION
1-19-65 ACB 774.80
1-20-65 18 HRS. 784.20

ELEVATION	N	QU	W(%)	DESCRIPTION
795				GROUND SURFACE
793.50	6	2.1	18	VERY STIFF YELLOWISH BROWN & BLACK CLAY (BACKFILL)
790	3	0.8	22	BOT. FTG. S. ABUT.
785	4	0.8	22	MEDIUM TO STIFF YELLOWISH BROWN & BLACK SILTY CLAY (BACKFILL)
782.50	7	1.5	20	
780	36	5.8	11	HARD GRAY CLAY (TILL)
775	27	3.6	12	
770	27	5.6	13	
770.00	27	4.8	12	VERY STIFF GRAY CLAY (TILL)
765	25	3.5	12	
762.50	20	3.1	13	
760	15	3.0	15	STIFF GRAY CLAY (TILL)
755	12	1.3	15	
753.00	13	1.5	14	BOTTOM OF BORING

SOUTH ABUTMENT

DESIGNED	EXAMINED
CHECKED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN L. SOHN	PASSED
CHECKED	ENGINEER OF DESIGN
	APPROVED
	CHIEF HIGHWAY ENGINEER

ILLINOIS DIVISION OF HIGHWAYS
FA ROUTE 2
SECTION 61Z-1-VB MCLEAN COUNTY
BORING DATA
SHEET 2

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USER NAME = brandenburgj	DESIGNED - TJB	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/24/2019	CHECKED -	REVISED -
	DATE - 6/5/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.N. 057-6301 ORIGINAL 1971 BRIDGE PLANS
(FOR INFORMATION ONLY)

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
730	(61Z-1) BRR	MCLEAN	51	51
CONTRACT NO. 70D14				
ILLINOIS FED. AID PROJECT				