04-28-2017 LETTING ITEM 108

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT (2015)

FOR SUMMARY OF QUANTITIES, SEE SHEETS 6-7

CURRENT ADT

14,200

LOC. #2

1,550

TRAFFIC DATA LOCATIONS LOC. #1 = S.N. 074-0071 - FAP 741 (IL 105) OVER OVER 1-72 0.25 MI. N. OF MONTICELLO. LOC. #2 = S.N. 092-0048 - FAP 697 (IL 9) OVER N FORK VERMILION RIVER - 2.5 MI, E. OF IL 9.

LOC. #3

3,850

LOC. #3 = S.N. 092-0050 - FAP 1512 (US 150) OVER MIDDLE FORK VERMILION RIVER - 2.6 MI, W. OF DANVILLE.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION D5 BRIDGE PAINTING 2017–3

BRIDGE PAINTING PIATT & VERMILION COUNTIES

C-95-015-17

FOR LOCATION MAPS, SEE SHEETS 3-5

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.

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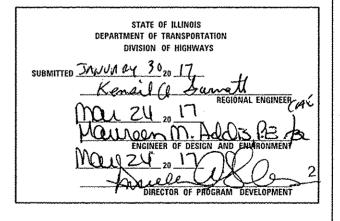
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: NANCY FASIG SQUAD LEADER; STEVE COOMBES **DESIGNER: JASON LEE** (217) 465-4181 CONTRACT NO. 70C59

*PIATT & VERMILION **D5 BRIDGE PAINTING 2017-3

D-95-015-17





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
3-5	DESCRIPTIONS & MAPS FOR LOCATIONS 1-3
6-7	SUMMARY OF QUANTITIES
8-15	LOCATION #1 STRUCTURE DETAILS
16-20	LOCATION #2 STRUCTURE DETAILS
21-28	LOCATION #3 STRUCTURE DETAILS
29-31	I-72 WB RAMP CLOSURE & DETOUR DETAILS
32-35	WIDTH RESTRICTION SIGNAGE DETAILS

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASURE SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-501A

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

G.N.-506 (SPL.)

ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED GRAY (MUNSELL COLOR STANDARD - 5B 7/1) EXCEPT THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS WHICH SHALL BE PAINTED WITH EITHER INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8) OR REDDISH BROWN (MUNSELL COLOR STANDARD 2.5YR 3/4) AS SPECIFIED UNDER THE DESCRIPTION FOR EACH STRUCTURE.

ONLY STRUCTURAL STEEL AND OTHER DESIGNATED SURFACES SHALL BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM CONTRACTORS BLASTING AND PAINTING OPERATIONS. ANY AREAS DAMAGED BY BLASTING OR OVERSPRAY WILL BE REMOVED OR REPAIRED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

THE SSPC-QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

ALL TRASH AND PAINTING DEBRIS, EXCLUDING WASTE BARRELS OR ROLL-OFF DUMPSTERS, SHALL BE REMOVED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

2 YEAR PAINT WARRANTY REQUIRED FOR STRUCTURES NO.1 AND NO. 2

NO COMMITMENTS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701316-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701901-06	TRAFFIC CONTROL DEVICES

SCHEDULE OF QUANTITIES

Location #1 - 074-0071 70400100 70400200 Relocate Temp Concrete Barrier Temporary Concrete Barrier Taper Tangent Total Taper Tangent Total EBDL 150' 125 WBDL 200' 125 WBPL 150' 125' 275' 50' * 600' 600' *Extra 50' from WBDL taper to be relocated to a safe location

Location #1 - 074-0071
X7015005 - Changeable Message Sign
7.0 CAL DA - Advance Notification for I-72 EB
7.0 CAL DA - Advance Notification for I-72 WB
7.0 CAL DA - Advance Notification for IL 105 to I-72 WB ramp closure
21.0 CAL DA

. PIATT & VERMILION

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LOCATION #1 DESCRIPTION

DESCRIPTION:

F.A.P. 741 (IL 105) OVER I-72 0.25 MILES N. OF MONTICELLO

COUNTY:

PIATT F.A.I. 72

ROUTE: MARKED ROUTE:

I-72

SECTION:

74-68 HB-3

SECTION,

074-0071

STRUCTURE NO.: 074

TYPE OF STRUCTURECONTINUOUS STEEL

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF FOUR (4) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

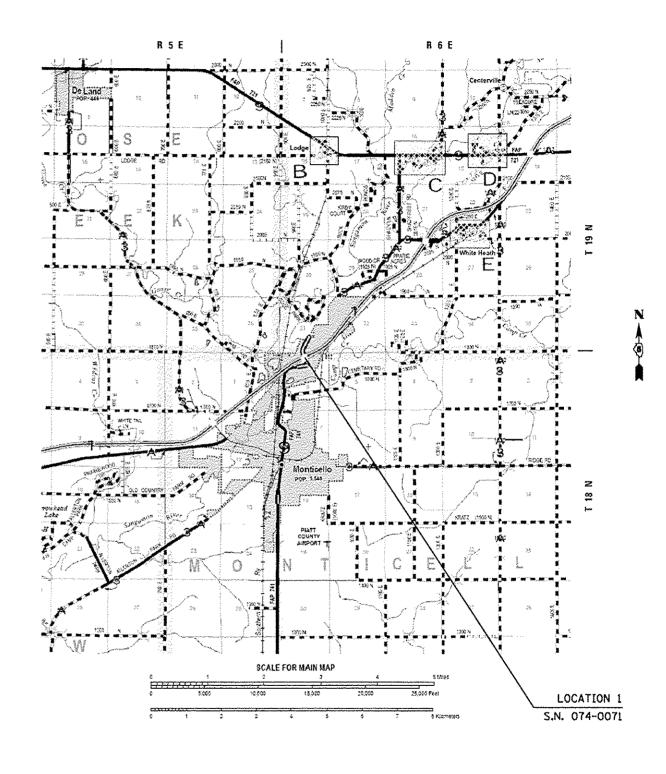
THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

2 YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE.

LOCATION MAP #1 PIATT COUNTY



. PIATT & VERMILION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE

LOCATION #1 DESCRIPTION AND LOCATION MAP

F.A. SECTION COUNTY TOTAL SHEETS NO.

VAR -- 35 3

-- 05 BRIDGE PAINTING 2017-3 CONTRACT NO. 70C59

LOCATION #2 DESCRIPTION

DESCRIPTION:

F.A.P. 697 (IL 9) OVER N FORK VERMILION RIVER - 2.5 MI E. OF IL 9

COUNTY:

VERMILION

ROUTE:

F,A.P. 697

MARKED ROUTE: SECTION:

IL 9 46BR

092-0048

STRUCTURE NO .:

TYPE OF STRUCTURE CONTINUOUS STEEL

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1.

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE: DECK DRAINS TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

2 YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE.

LOCATION MAP #2 VERMILION COUNTY



- PIATT & VERMILION

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **LOCATION #2 DESCRIPTION AND LOCATION MAP** SHEET OF SHEETS STA. TO STA.

SCALE:

SECTION COUNTY VAR .. D5 BRIDGE PAINTING 2017-3 CONTRACT NO. 70C59 ILLINOIS FED. AID PROJECT

LOCATION #3 DESCRIPTION

DESCRIPTION:

F.A.S. 1512 (US 150) OVER MIDDLEFORK VERMILION RIVER - 2.6 MI W. OF DANVILLE

COUNTY: ROUTE:

VERMILION F.A.S. 1512

MARKED ROUTE:

US 150

SECTION:

36BR

STRUCTURE NO .: 092-0050

TYPE OF STRUCTURECONTINUOUS STEEL

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS, DIAPHRAGMS AND OTHER STRUCTURAL STEEL IN SPANS 1 AND 3 MEASURED TEN (10)FT, ALONG THE BEAM LINES FROM EACH END OF THE STRUCTURE SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN (MUNSELL COLOR STANDARD 2.5YR 3/4).

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE, SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

NOTE; DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

LOCATION MAP #3 VERMILION COUNTY



. PIATT & VERMILION

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SCALE:

SUMMARY OF QUANTITIES

LOCATION OF WORK:

LOC. #1 F.A.I. 72

PIATT CO.

URBAN

LOC. #2 F.A.P. 697 LOC. #3

F.A.S. 1512

S.N. 074-0071 S.N. 092-0048 S.N. 092-0050 VERMILION CO. VERMILION CO.

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	CONSTRUCTION	N TYPE CODE	:	~0014	0014	0014
			TOTAL			
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67100	00 MOBILIZATION	L SUM	1.0	0.4	0.3	0.3
			N JOHN WHALL			
		··				}

70100207 TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 EACH 70100420 TRAFFIC CONTROL AND PROTECTION, STANDARD 701411 EACH 1.0 1.0 70100450 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 L SUM 1.0 0.5 0.5 70400100 TEMPORARY CONCRETE BARRIER FOOT 600.0 600.0 FOOT 600.0 70400200 RELOCATE TEMPORARY CONCRETE BARRIER 600.0 70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 EACH 2.0 2.0 70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 EACH 2.0 2.0 X5067501 BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1 L SUM 1.0 1.0 X5067502 BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2 L SUM 1.0 1.0

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. PIATT & VERMILION

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FILE NAME :

SUMMARY OF QUANTITIES

LOC. #1 LOC. #2 LOC. #3 LOCATION OF WORK: F.A.I. 72 F.A.P. 697 F.A.S. 1512 S.N. 074-0071 S.N. 092-0048 S.N. 092-0050 VERMILION CO. VERMILION CO. PIATT CO. URBAN RURAL RURAL 100 % STATE 100 % STATE 100 % STATE 0014 CONSTRUCTION TYPE CODE: 0014 0014 TOTAL QUANTITY QUANTITY UNIT QUANTITY 21.0 CAL DA

QUANTITY CODE NO. DESCRIPTION X7015005 CHANGEABLE MESSAGE SIGN X7200201 WIDTH RESTRICTION SIGNING L SUM 0.3 1.0 0.4 X9700017 TRAFFIC CONTROL AND PROTECTION (DETOUR) LSUM 1.0 1.0 Z0007101 CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1 L SUM 1.0 1.0 Z0007102 CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2 L SUM 1.0 1.0 L SUM 1.0 Z0007103 CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3 1.0 Z0010501 CLEANING AND PAINTING STEEL BRIDGE NO. 1 L SUM 1.0 1.0 Z0010502 CLEANING AND PAINTING STEEL BRIDGE NO. 2 L SUM 1.0 1.0 L SUM 1.0 1.0 Z0010503 CLEANING AND PAINTING STEEL BRIDGE NO. 3

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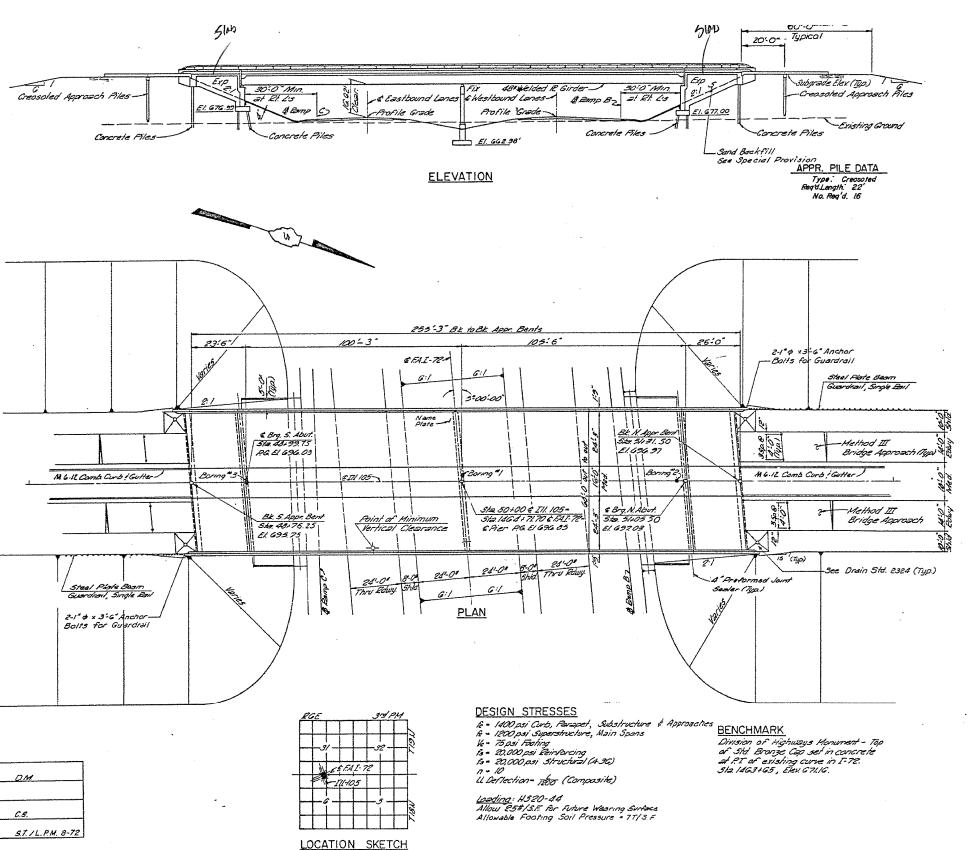
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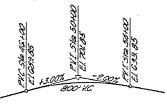
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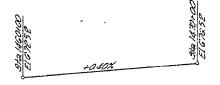
TOTAL BILL OF MATERIALS

TOTAL DILL OF	MIMIT	IHLO		
ITEM	UNIT	SUPER	SUB	TOTAL
Aluminum Railing	Lin.Ft.	525	1. 1-1. 1.	525
Structure Excavation	Cu. Yd.		260	260
Class X Concrete	Cu. Yd.	577.7	406.6	984.3
Furnishing & Erecting Structural Steel	Lump Sum	/	·	1
Furnishing Concrete Piles	Lin.Ft.	-	2186	2/86
Driving Concrete Piles	Lin.Ft.	-	2180	2/86
Test Pile Concrete	Each	-	2	2
Name Plates	Each	_	100	1
Sand Backfill	Cu. Yd.		675	675
Slope Wall (4 inch)	Sq. Yd.	-	441	441
Stud Shear Connectors	Each	2349		2349
Reinforcement Bars	Pound		49 010	
Preformed Joint Sealer (4")	Lin, Ft.	136		136
Furnishing Creosoted Piles (20.1 to 38ff)	Lin.Ft.		352	352
Driving Timber Piles	Lin.Ft.		352	352

Note: Protective Coot, Bituminous Concrete Surface Course Class I and Cool Tor Interloyer Protective Coot details ore shown for information only.



PROFILE ILL-105



PROFILE FAI.72



GENERAL PLAN & ELEVATION PROJ. 1-72-2(53)63 FA.I. 72 SEC. 74-68-HB-3 PIATT COUNTY

STA. 1464+71.70(FA.1.72)

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LOCATION	STATION	OFFSET	GRADE ELEVATION	CORRECTED ELEVATION
BACK SO	UTH APPRO	OACH BE	VT	
West Gutter Line Outside South Bound Lane Inside South Bound Lane Inside North Bound Lane Outside North Bound Lane East Gutter Line	4873 - 428 467 4 - 238 467 5 - 463 467 7 - 037 467 6 - 262 467 9 - 072	-32.250 -23.000 -9.000 9.000 23.000 32.250	695-180 695-383 695-618 695-638 695-435 695-252	695-180 695-383 695-618 695-638 695-435 695-252
END SO	OUTH APPR	OACH SL	.A8	
West Gutter Line Outside South Bound Lane Inside South Bound Lane Inside North Bound Lane Outside North Bound Lane Cutside North Bound Lane East Gutter Line	4873.929 4874.738 4875.963 4877.537 4878.762 4879.572	-32.250 -23.000 -9.000 9.000 23.000 32.250	695-187 695-390 695-624 695-644 695-441 695-259	695+187 695-390 695-624 695-644 695-441 695-259
	"A '	•		
West Gutter Line Outside South Bound Lane Inside South Bound Lane Inside North Bound Lane Outside North Bound Lane East Gutter Line	4663-929 4684-738 4885-963 4887-537 4888-762 4889-572	-32-250 -23-000 -9-000 9-000 23-000 38-850	695-313 695-515 695-748 695-767 695-564 695-381	695.313 695.515 695.748 695.767 695.564 695.381
BACK S	OUTH ABU	TMENT		
West Gutter Line Outside South Bound Lane Inside South Bound Lane Inside North Bound Lane Outside North Bound Lane East Gutter Line	4895-074 4895-884 4897-109 4898-683 4899-908 4900-718	-32.250 -23.000 -9.000 9.000 23.000 32.250	695.445 695.647 695.880 695.898 695.510	695.445 695.647 695.880 695.898 695.693 695.510

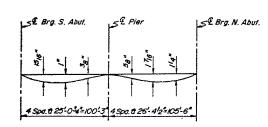
LOCATION	GIRDER	STATION	OFFSET	GRADE ELEVATION	CORRECTED ELEVATION
€ Brg. S.Abut.	123456789	4897.032 4897.711 4898.391 4899.070 4899.750 4900.430 4901.109 4901.789 4902.468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	695.494 695.663 695.793 695.922 696.675 695.937 695.824 695.709 695.555	695.494 695.663 695.793 695.922 696.675 695.937 695.824 695.709 695.555
-B	1 2 3 4 5 6 7 8 9	4907.032 4907.711 4908.391 4909.070 4909.750 4910.430 4911.109 4911.789 4912.468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	695-605 695-774 695-903 696-032 696-785 696-046 695-932 695-817 695-663	695.642 695.811 695.940 696.069 696.822 696.083 695.969 695.854 695.700
c	1 2 3 4 5 6 7 8	4917-032 4917-711 4918-391 4919-070 4919-750 4920-430 4921-109 4921-789 4922-468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	695.710 695.878 696.007 696.135 696.888 696.149 696.035 695.919 695.765	695.778 695.778 695.946 696.075 696.203 696.956 696.216 696.102 695.987 695.832
o	1 2 3 4 5 6 7 8 9	4927-032 4927-711 4928-391 4929-070 4929-750 4930-430 4931-109 4931-789 4932-468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	695.809 695.977 696.105 696.233 696.985 696.246 696.131 696.015 695.860	695.896 696.063 696.192 696.319 697.072 696.332 696.218 696.102 695.947

LOCATION	GIRDER	STATION	OFFSET	GRADE ELEVATION	CORRECTE ELEVATION
"E"	1 2 3 4 5 6 7 8 9	4937.032 4937.711 4938.391 4939.070 4939.750 4940.430 4941.109 4941.789 4942.468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	695.901 696.069 696.197 696.324 697.076 696.336 696.221 696.104 695.949	695.994 696.161 696.289 696.416 697.168 696.428 696.313 696.197 696.041
	1 2 3 4 5 6 7 # 9	4947.032 4947.711 4948.391 4949.070 4549.750 4950.430 4951.109 4951.789 4952.468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	695.988 696.155 696.282 696.409 697.160 696.420 696.305 696.188 696.032	696.072 696.239 696.367 696.493 697.245 696.505 696.389 696.272 696.116
"6"	123456789	4957-032 4957-711 4958-391 4959-070 4959-750 4960-430 4961-109 4961-789 4962-468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	696.068 696.234 696.362 696.488 697.239 696.498 696.382 696.265 696.109	696.134 696.300 696.428 696.554 697.305 696.564 696.331 696.175
"H"	1 . 2 3 4 5 6 7 8 9	4967-032 4967-711 4968-391 4969-070 4969-750 4970-430 4971-109 4971-789 4972-468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	696.141 696.307 696.434 696.560 697.311 696.569 696.453 696.335 696.179	696.183 696.349 696.476 696.602 697.352 696.611 696.495 696.377 696.221

LOCATION	GIRDER	STATION	OFFSET	GRADE ELEVATION	CORRECTED ELEVATION
"T"	1 2 3 4 5 8 7 8	4977.032 4977.711 4978.391 4979.070 4979.750 4980.430 4981.789 4982.468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	696.209 696.374 696.501 696.626 697.377 696.635 696.518 696.400 696.243	696.227 696.392 696.519 696.644 697.395 696.653 696.418 696.261
" ,/"	! 23 4 5 6 7 8 9	4987.032 4987.711 4988.391 4989.070 4989.750 4990.430 4991.109 4991.789 4992.468	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	696.270 696.435 696.561 696.686 697.436 696.694 696.577 696.458 696.301	696.272 696.437 696.564 696.688 697.438 696.696 696.579 696.460 696.303
"X"	1 2 3 4 5 6 7 8 9	4997.282 4997.961 4998.641 4999.320 5000.000 5000.680 5001.359 5002.039 5002.718	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	696.326 696.491 696.617 696.741 697.491 696.748 696.630 696.511 696.354	696.326 696.491 696.617 696.741 696.748 696.748 696.511 696.354
"L"	; 23456789	5007.282 5007.961 5008.641 5009.320 5010.000 5010.680 5011.359 5012.039 5012.718	-31.000 -23.250 -15.500 -7.750 000 7.750 15.500 23.250 31.000	696.375 696.539 696.665 696.789 697.537 696.794 696.676 696.557	696.387 696.552 696.677 696.801 697.550 696.807 696.689 696.569 696.411

NOTE:

Elevation given on these Tables are
Top of Concrete and 'Je' below finished
grade where coal for interlayer protective
coal and Class I Surface Course are used.
See sheet 4 for position of Elevations.



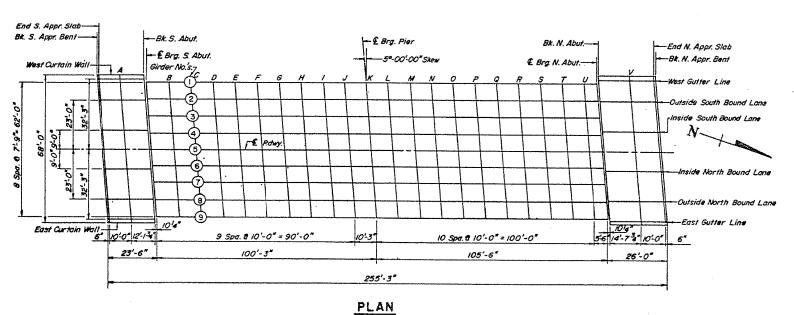
ALL GIRDERS

DEAD LOAD DEFLECTION DIAGRAMS

R.W.W. ₩.B.C. 8.6. R.W. W.

MOTE: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown above.

Deflections Shown are for the weight of the Concrete Slab and Superimposed loads of the Concrete Curb, Parapet and I& Class I Surface.

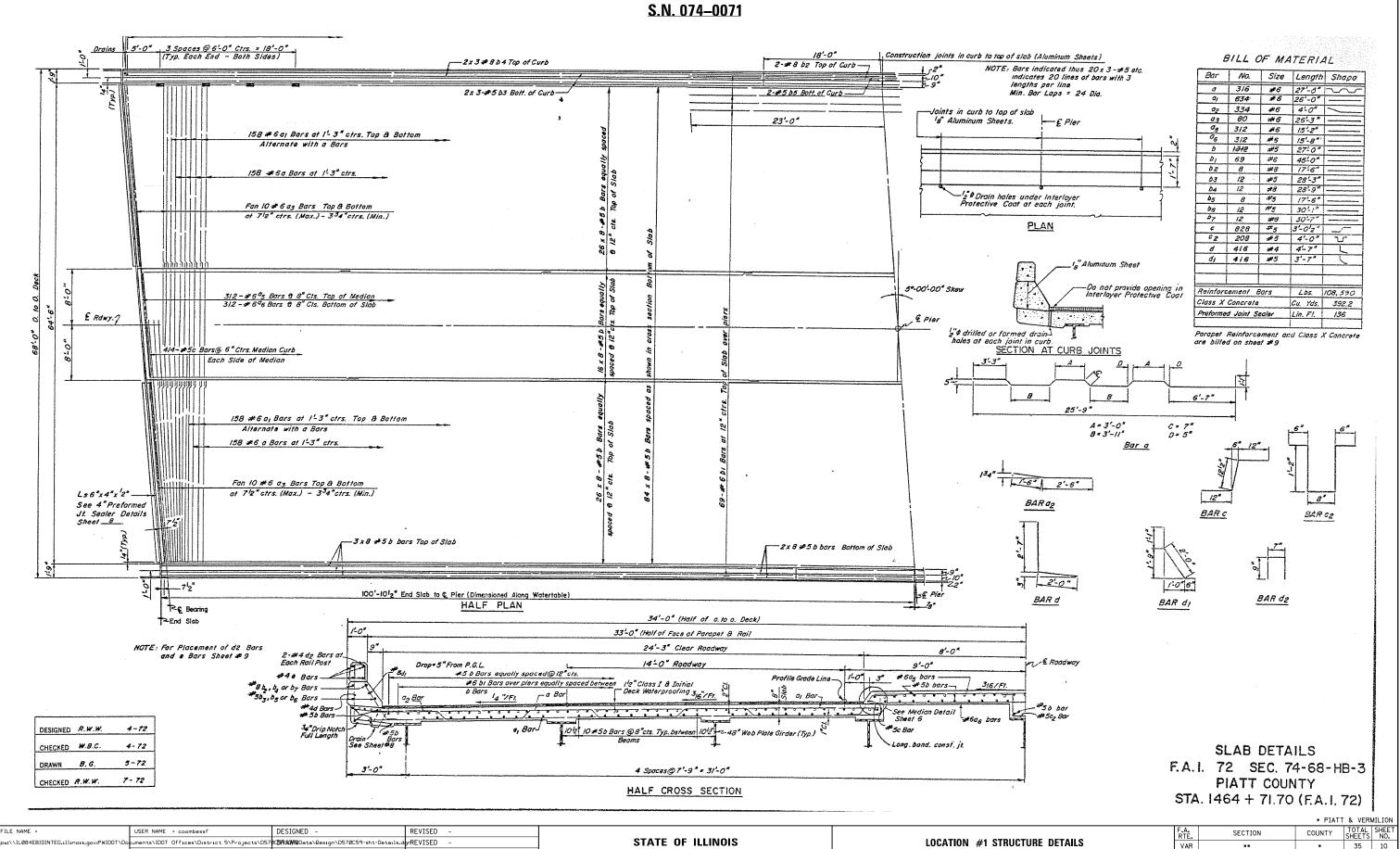


TOP OF SLAB ELEVATIONS FAJ.-72 SEC. 74-68-HB-3 PIATT COUNTY STA.1464+71.70 (F.A.1.-72)

*	PIATT	&	VERMILION
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	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						•• D5	BRIDGE PAINTING 2017-3	CONTRACT	Γ NO. 7	OC59
\$MODELNAME\$	PLOT DATE = 1/5/2017	DATE -	REVISED -		SCALE:	SHEET	0F	SHEETS STA.	TO STA.		TILLINOIS FED. A			

FOR INFORMATION ONLY S N 074-0071



DEPARTMENT OF TRANSPORTATION

SCALE:

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TO STA.

** D5 BRIDGE PAINTING 2017-3 CONTRACT NO. 70C59

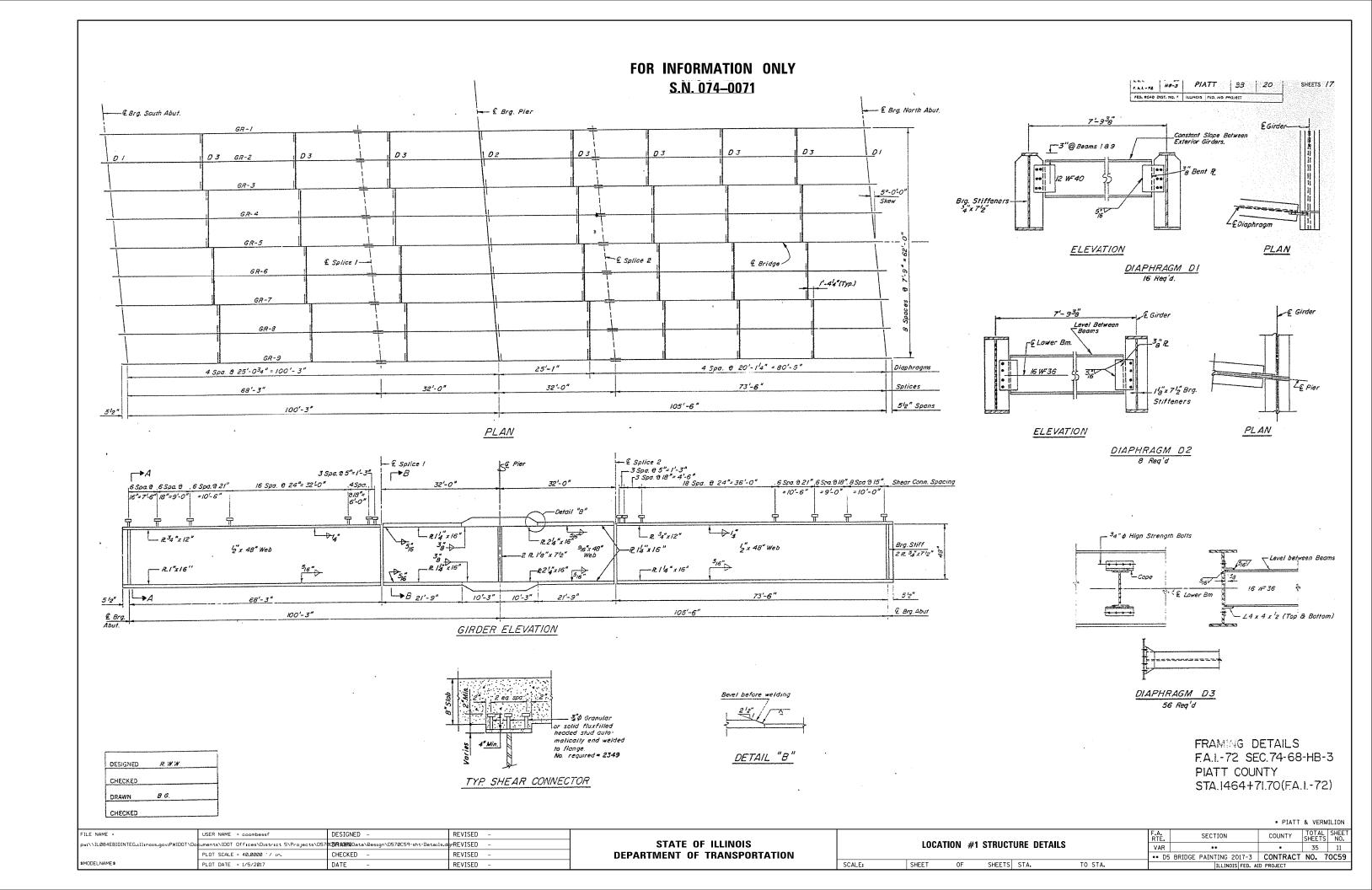
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DATE

PLOT DATE = 1/5/2017

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FOR INFORMATION ONLY S.N. 074–0071

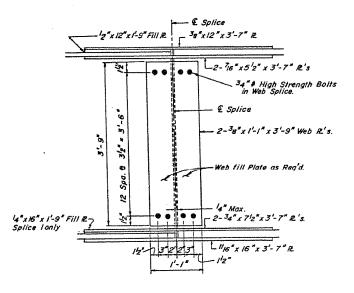
EL	ELEVATIONS TOP OF WEB*											
GIRDER NO.	£ BRG. S. ABUT.			SPLICE	£ BRG. N. ABUT.							
/	694.72	695.29	695.41	695.62	695.75							
2	694.89	695.45	695.57	695.77	695.91							
3	695.02	695.58	695,70	695.91	696.03							
4	695,15	695.70	695.82	696.02	696.15							
5	695.28	695,83	695.95	696.15	696.27							
6	695.17	695.71	695,83	696.03	696.15							
7	695.05	695.59	695.71	695.91	696.03							
8	694.94	695,47	695.59	695.79	695.91							
9	694.78	695.32	695.44	695.63	695.74							

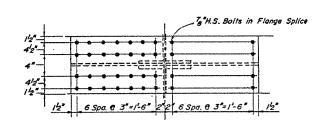
* For Fabrication Onl

INTE	RIOR GIRDER	MOMENT TAL	9LE
	0.4 Sp. 1	Pier	0.6 Sp. 2
Is (in4)	18953	50666	20679
Ic (in4)	51081		57709
Ss (in3)	882	1930	1029
Sc (in3)	1239		1436
2 (K/1)	.977	1.137	.990
M 2 (VK)	540.7	1605.3	684.4
Fs & (ksi)	9.90	13.18	10.6
5 & (k1)	.37	.37	.37
Ms £ ('k)	249.8	491.1	297.0
MLL ('k)	892.9	771.9	935.1
Mimp ('k)	198.2	169	204.8
TOTAL ('k)	1881.6	3037.3	2121.3
Fs & (ksi)	10.09	5.92	9.11
Fs TOTAL(ksi)	19.99	19.10	19.71
VR (k)	67.5		66.9

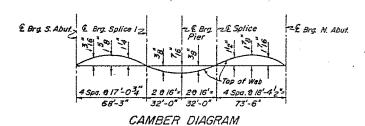
INTER	IOR GIRDER	REACTION	TABLE			
	Abutment	Pier	Abutment			
R & (k)	46.6	184.0	51.9			
R & (k)	50.7	75.3	50.9			
IMP (k)	11.2	16.6	11.1			
R TOTAL (k)	108.5	275.9	113.9			

	12.		F				
4	2/2	• • •	• • •	•	•	7*	
3	2/2-					7g"H.S.Bolt.	s in Flanges
	155				#		
	1/2	6 Spa.@3"= /~6"	6.54	oa. @ 3* =	1/2	M	
	٦	1-6"	2 2"	/ - 6"	• •		

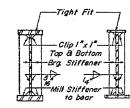




SPLICE DETAILS



Camber Diagram Includes Dead Load Deflection For the Steel, Concrete, $1/2^n$ Coal Tar Interlayer Protective Coal and a Component for the Vertical Curve.



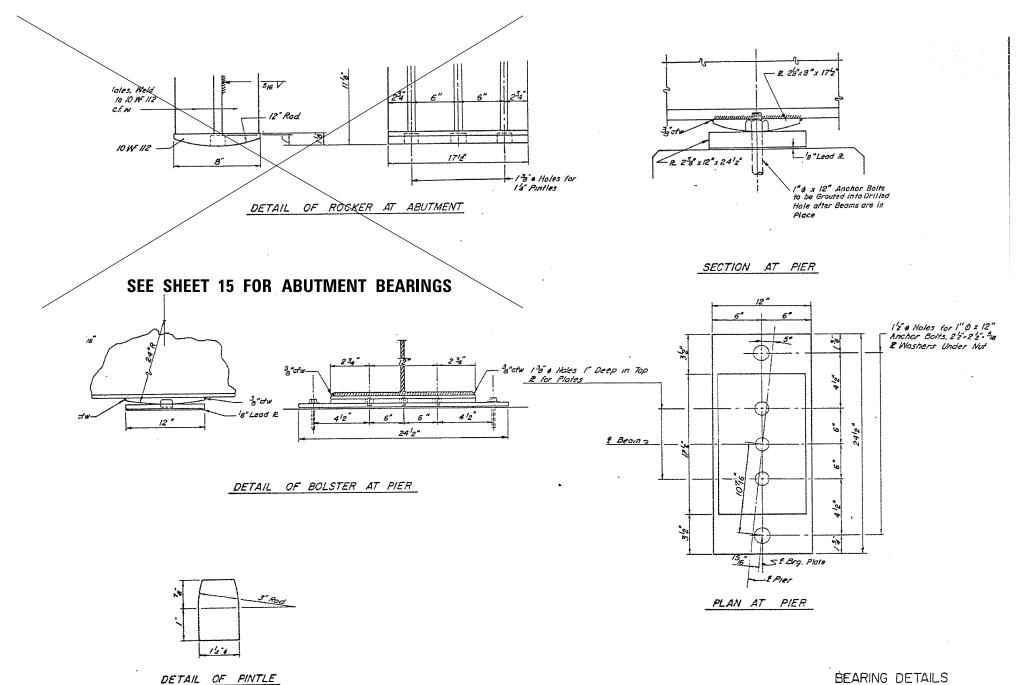
SECTION SECTION
AT PIER AT ABUTMENT

FRAMING DETAILS F.A.I.- 72 SEC. 74-68-HB-3 PIATT COUNTY STA. 1464+71.70(FA.I.-72)

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	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				BRIDGE PAINTING 2017-3	CONTRACT NO. 70C59	
\$MODELNAME\$	PLOT DATE = 1/5/2017	DATE -	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		

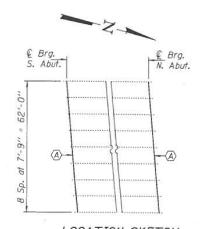
FOR INFORMATION ONLY S.N. 074–0071



BEARING DETAILS F.A.I.-72 SEC. 74-68-HB-3 PIATT COUNTY STA. 1464+71.70(F.A.I.-72)

* PIATT & VERMILION FILE NAME = USER NAME = coombessf DESIGNED -REVISED SECTION COUNTY STATE OF ILLINOIS .ments\IDOT Offices\District 5\Projects\D57**70BRAWAW**Data\Design\D570C59-sht-Details LOCATION #1 STRUCTURE DETAILS ow:\\ILØ84EBIDINTEG.:ll:no: rREVISED 35 13 VAR CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** ** D5 BRIDGE PAINTING 2017-3 CONTRACT NO. 70C59 PLOT DATE = 1/5/2017 DATE REVISED SCALE: SHEET OF SHEETS STA. TO STA.

S.N. 074-0071



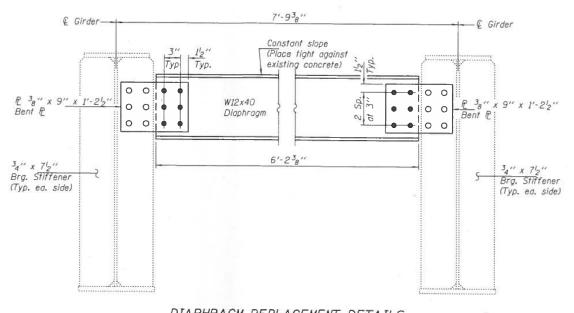
LOCATION SKETCH (A) - Diaphragm Replacement

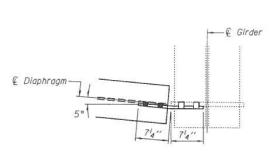
(8 Required each Abutment)

FOR INFORMATION ONLY

<u>NOTES</u>

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. Fasteners shall be high strength bolts. Balts 34 ' 4 , open holes $^{13}6$ ' 4 , unless otherwise noted otherwise noted.





PLAN

DIAPHRAGM REPLACEMENT DETAILS

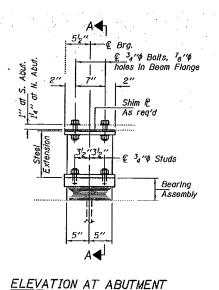
- O Field Drill holes to match existing holes.
- Shop Drill holes.

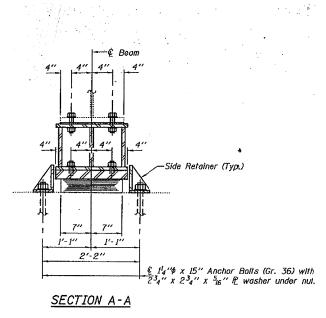
BILL OF MATERIAL

Unit	Total
Pound	4670
Pound	4670
	Pound

* PIATT & VERMILION

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	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							** D5	BRIDGE PAINTING 2017-	3 CONTRAC	T NO.	70C5	9
\$MODELNAME\$	PLOT DATE = 1/5/2017	DATE -	REVISED -		SCALE:	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT			



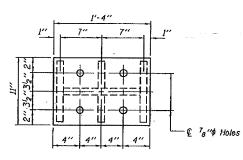


BEAM REACTIONS

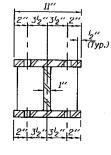
1	·	
RQ '	(K)	51.9
RŁ	·· (K)	50,9
Imp.	(K)	11.0
R (Total)	(K)	113.8

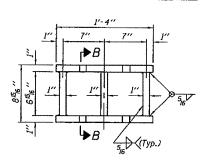
Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection botts are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 65 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A3OT Grade C anchor botts may be used in ileu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHM O M314 anchor botts may be used in ileu of ASTM F1554.
Anchor botts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolls shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.

SCALE:



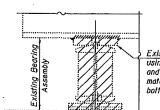
PLAN TOP AND BOTTOM PLATE





SECTION B-B

STEEL EXTENSION DETAIL



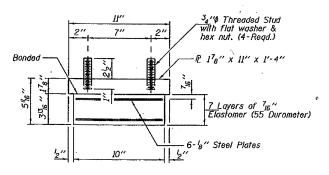
Existing & to be removed and arind smooth all weld material remaining on the

Burn existing anchor botts flush with existing concrete surface. Grind existing anchor boll smooth and seal with epoxy.

EXISTING BEARING REMOVAL DETAIL

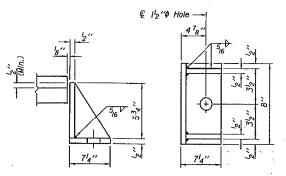
Cost included with Jack and Remove Existing Bearings.

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

PRE-FINAL DATE: 11/1/2012

M/T /0000

FILE NAME = DESIGNED -REVISED USER NAME = coombessf ow:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\C uments\IDOT Offices\District 5\Projects\D57**0GRXXXX**Data\Design\D570C59-sht-Detail: REVISED CHECKED REVISED \$MODELNAME\$ PLOT DATE = 1/5/2017 DATE REVISED

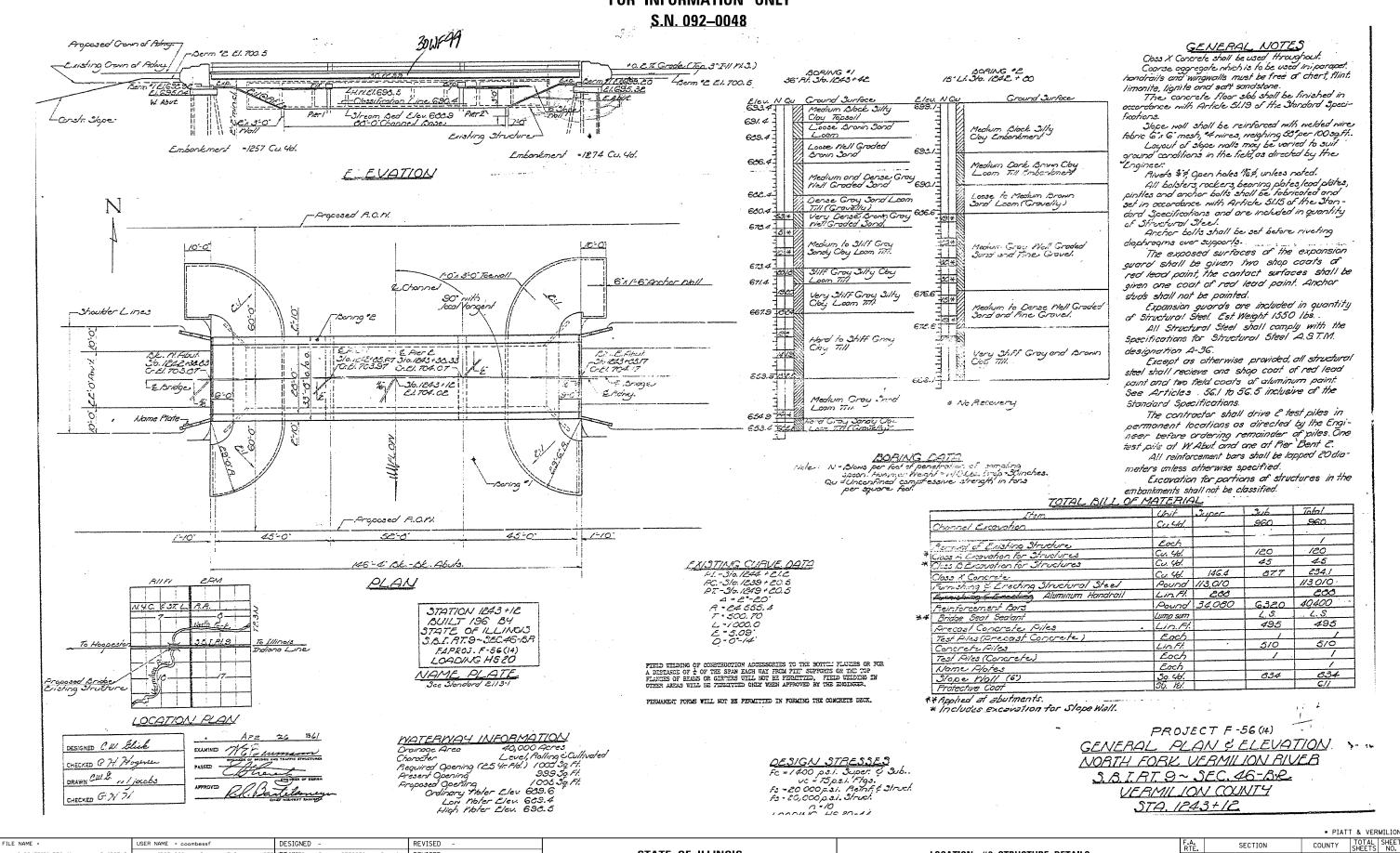
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

							• PIAT	T & VER	MILION
		==::.=			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LUCA	HON #1	STRUCT	UKE DEI	AILS	VAR	**		35	15
					** D5	BRIDGE PAINTING 2017-3	CONTRACT	NO. 7	OC59
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

BILL OF MATERIAL (2 A DITTUENTO)

(Z ADUIM	<u> </u>	
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18
Jack and Remove Existing Bearings	Each	18
Furnishing and Erecting Structural Steel	Pound	3320
Anchor Balts I'4''\$	Each	36

FOR INFORMATION ONLY



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

LOCATION #2 STRUCTURE DETAILS

SHEETS STA.

SCALE:

SHEET

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TO STA.

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** D5 BRIDGE PAINTING 2017-3 CONTRACT NO. 70C59

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PLOT DATE = 1/5/2017

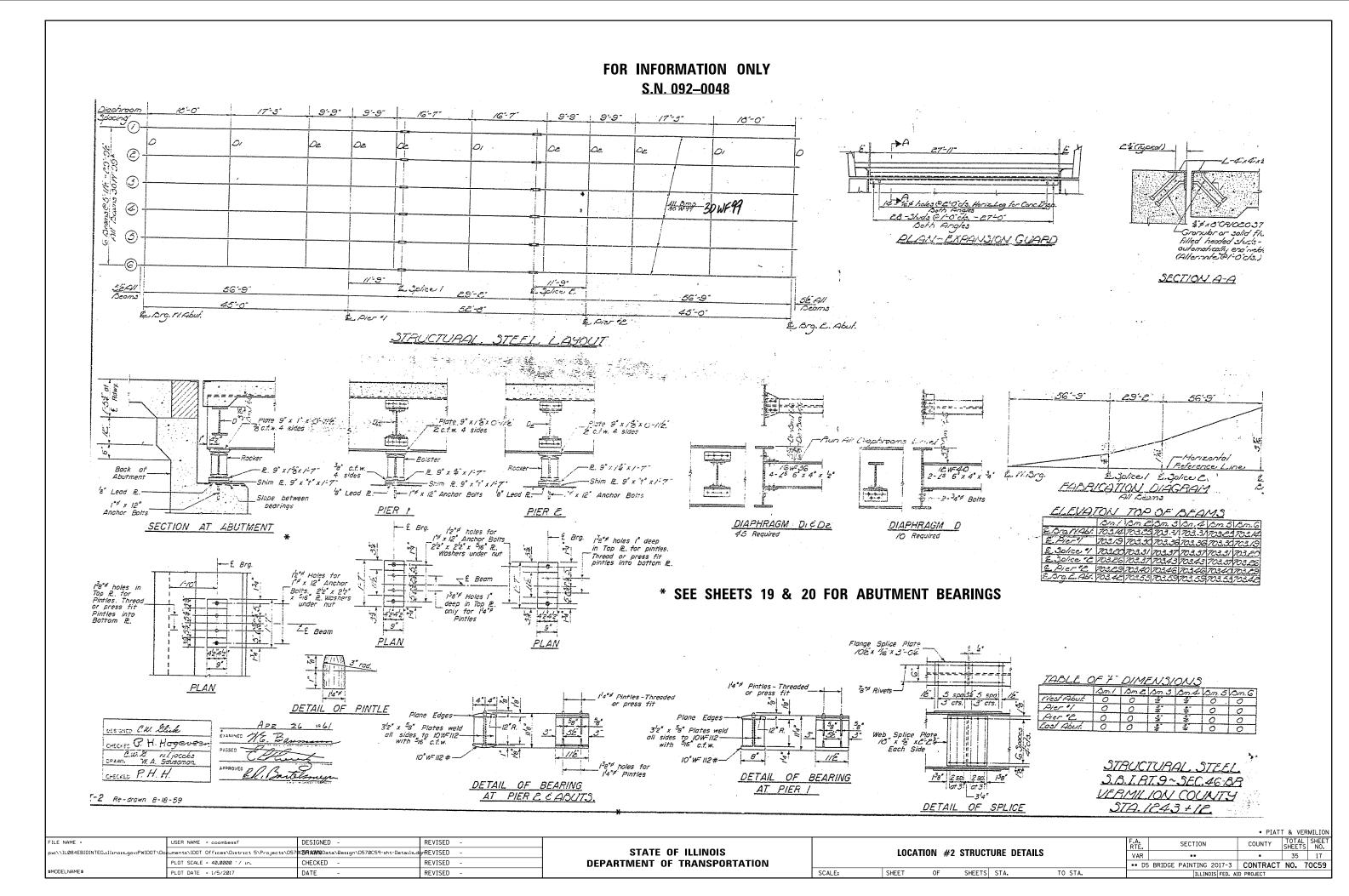
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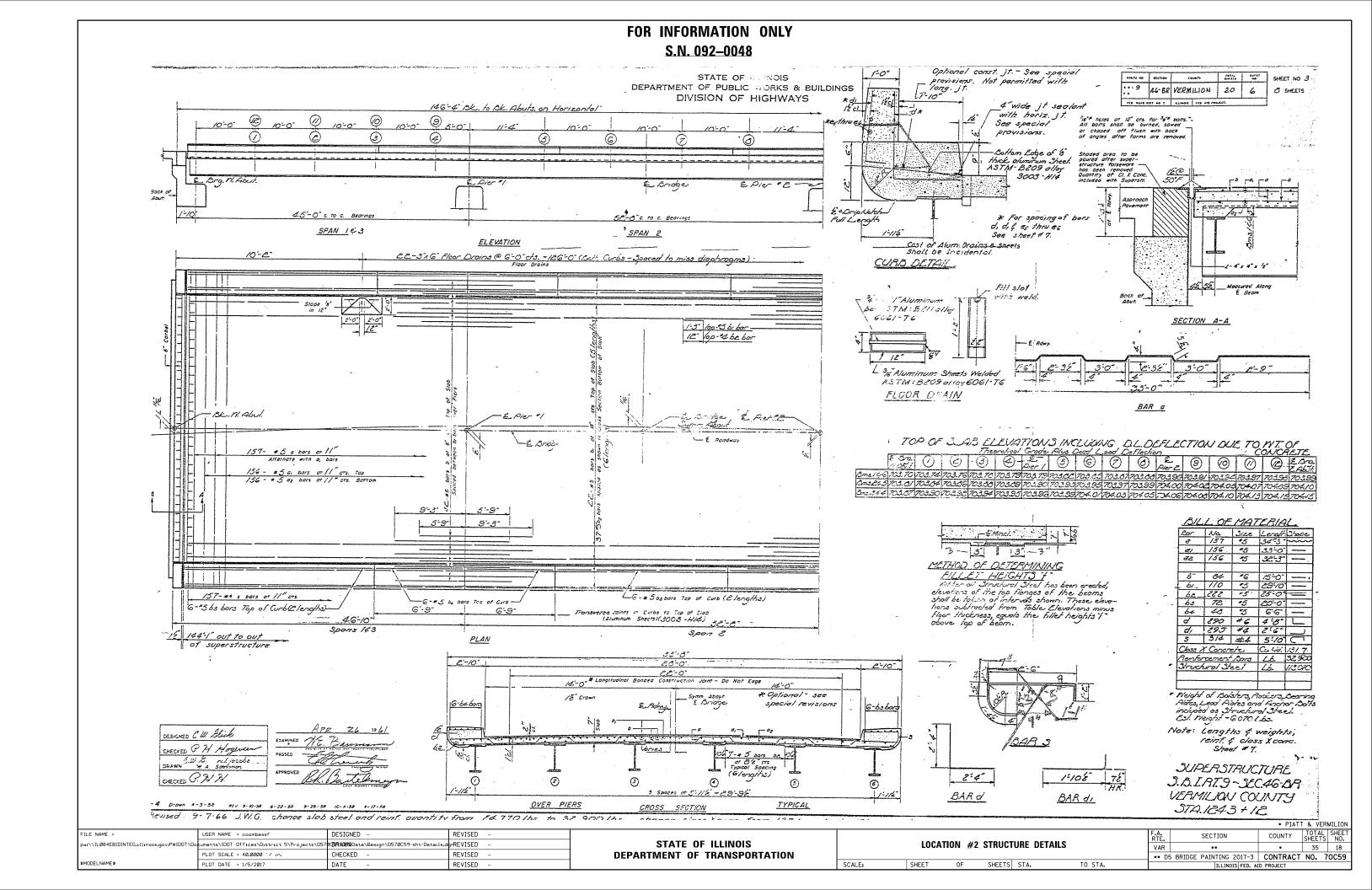
DATE

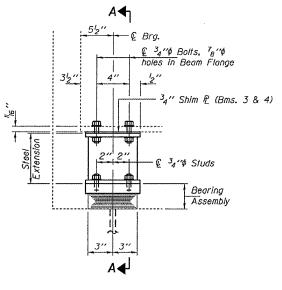
-REVISED

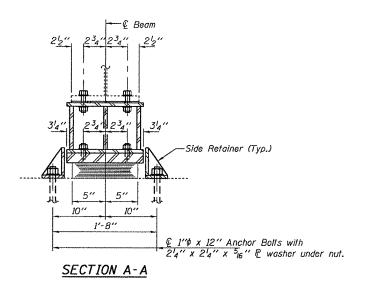
REVISED

REVISED



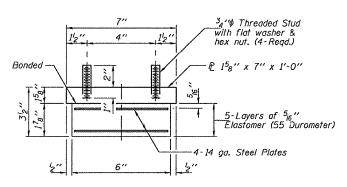






ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.



FEBRUARY 20, 2009

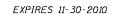
BEARING ASSEMBLY

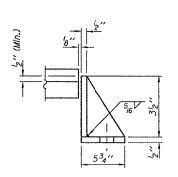
Note: Shim plates shall not be placed under Bearing Assembly.

CHECKED VHV TOB

TYI/REPS 12-03-2008







SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

€ 14'4 Hole-

53₄"

BEAM REACTIONS

R₽	(K)	17.2
RŁ	(K)	29.3
Imp.	(K)	8.6
R (Total)	(K)	<i>55.1</i>

Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 30 Tons.

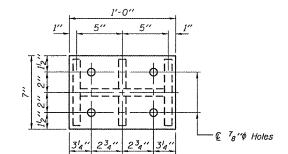
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in

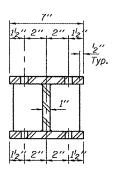
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

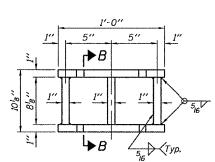
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.

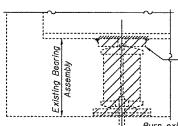


PLAN TOP AND BOTTOM PLATE





SECTION B-B



Existing & to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

STEEL EXTENSION DETAIL

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	740
Anchor Bolts 1''¢	Each	12

BEARING REPLACEMENT DETAILS WEST ABUTMENT SN 092-0048

SHEET NO.1	F.A.S. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	697	46RS-8 & 1R	RS-2 & 46B	DR	VERMILION	75	57
2 SHEETS					CONTRACT	NO. 90	866
	FED. RO	DAD DIST. NO.	ILLINOIS FEI	D. AI	D PROJECT	Million and American and Americ	

* PIATT & VERMILION

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	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						** D5 BRI	DGE PAINTING 2017-3	CONTRACT	T NO. 7	OC59
\$MODELNAME\$	PLOT DATE = 1/5/2017	DATE -	REVISED -		SCALE:	SHEET	0F	SHEETS STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

OF ILLINOIS OF TRANSPORTATION

BEAM REACTIONS

RP	(K)	17.2
R4	(K)	29.3
Imp.	(K)	8.6
R (Total)	(K)	55.1

Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 30 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade Canchor bolts may be used in lieu of ASTM F1554
Grade 36 (Fy=36ksi). The corresponding specified grade of AASTM F1554.

Anchor bolts at fixed bearings may be either cast in

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported

place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after botts are installed.

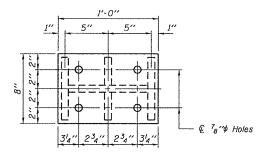
Drilled and set anchor botts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The 'g' PTFE 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.

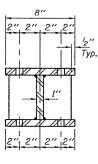
Bonding of 'g' PTFE sheet during vulcanizing process

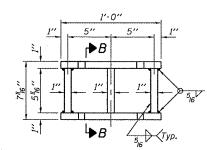
Surraces.

Bonding of 'g" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



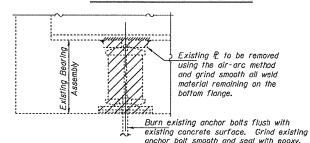
PLAN TOP AND BOTTOM PLATE





SECTION B-B

STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	660
Anchor Bolts 1''¢	Each	12

BEARING REPLACEMENT DETAILS EAST ABUTMENT

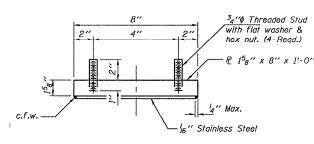
EET NO.2	F.A.S. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	697	46RS-8 & 1RS	5-2 & 46BD	OR	VERMILION	75	58
SHEETS					CONTRACT	NO. 90	866
	FED. RO	DAD DIST. NO.	ILL INOIS FED	. AI	D PROJECT		

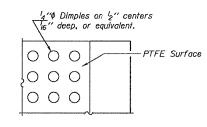
	A.4.	3.IV. U3Z—I
	A -	STATE
	5 ⁵ / ₂ " ← € Brg.	DEPARTMENT C
	<u>©</u> 34" φ Bolts, 7g" φ holes in Beam Flange 3½" 4" 2"	2'2" 231 234" 2'2"
,, <u>9</u> [3 ₄ " Shim P ₂ (Bms. 3 & 4)	
	<u>-</u>	<u>- </u>
ł	THE LEGISLATION OF THE PARTY OF	
	2" 2" & 34" best Studs	314" 2341234" 314"
		Side Retainer (Typ.)
	Bearing	
	Assembly	
	$3'_2''$ $3'_2''$ $\downarrow_{8''}$ elastomeric neoprene leveling pad	178" 10" 10" 178"
	according to the material properties of Article 1052.02(a) of the Standard	$\underbrace{ \underbrace{ 1'' \phi \times 12'' \text{ Anchor Bolts with} }}_{1'-113.''} \underbrace{ 2'_4'' \times 2'_4'' \times 5'_6'' \underbrace{ \text$
	Specifications. Cost included with	$1'-11^34''$ $2'4'' \times 2'4'' \times ^{7}6''$ C washer under nut.
	Elastomeric Bearing Assembly Type II.	E

ELEVATION AT ABUTMENT

SECTION A-A

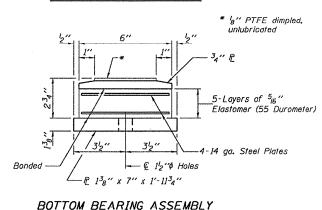
TYPE II TFE ELASTOMERIC EXP. BRG.

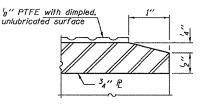




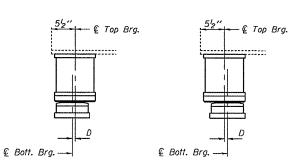
PLAN-PTFE SURFACE

TOP BEARING ASSEMBLY





SECTION THRU PTFE € 1½"\$ Hole-



BELOW 50° F. ABOVE 50° F. (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

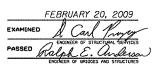
SETTING ANCHOR BOLTS AT EXP. BRG.

SCALE:

 $D = {}^{\prime}8''$ per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED	VHV
CHECKED	DAB
DRAWN	baliva
CHECKED	VHV DAB

TYII/REPS 12-03-2008



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

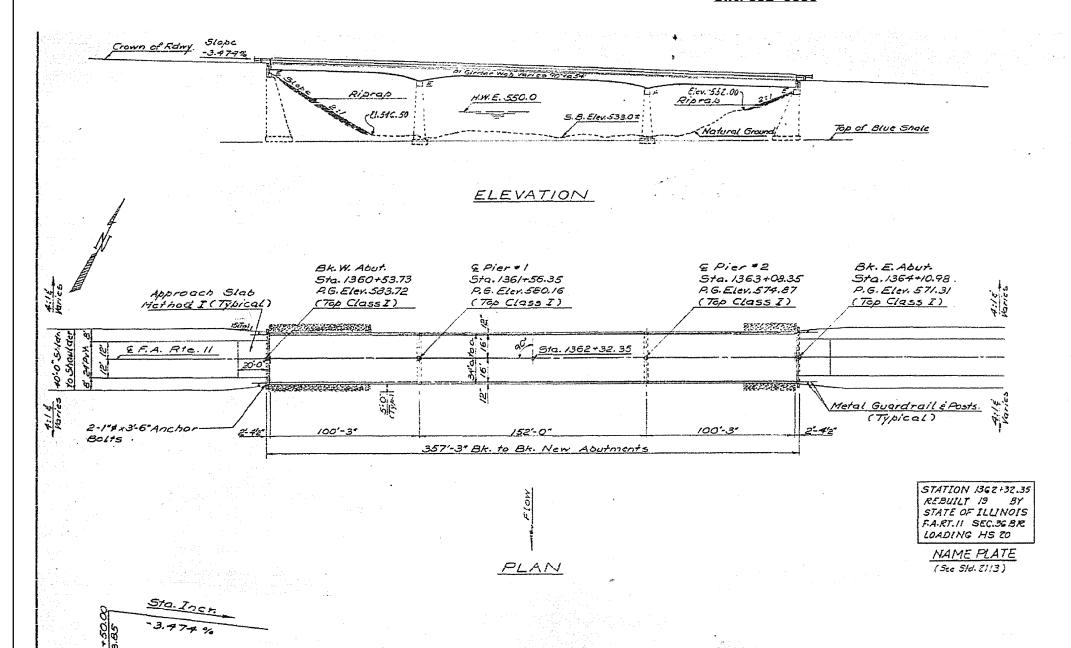
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		PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF
ı	\$MODELNAME\$	PLOT DATE = 1/5/2017	DATE -	REVISED -	

STATE	E OF	ILLINOIS	
DEPARTMENT	0F	TRANSPORTATION	

							+ FIAI	. & VER	MILION
					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOCATION #2 STRUCTURE DETAILS					VAR	**	*	35	20
					** D5	BRIDGE PAINTING 2017-3	CONTRACT	NO. 1	70C59
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SN 092-0048

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL	SH
01121 110.2	697	46RS-8 & 1RS-2 & 46BDR	VERMILION	75	
2 SHEETS			CONTRACT	NO. 90	86



WATERWAY INFORMATION

Q(se) = 15,750 cfs

M.W. E 1100 550.3' A Huco) 13' 71100) 18,150 cfs

447 SO.MI.

250050.FH.

2500 Sq. F4.

Drainage Area

Required Opening

Proposed Opening 25 H. W. E. 1550 Ft.

(1100)

the bollom flange of beams or girders nor to the top flange for a distance equal to one fourth the span length each may from the plan suppose; Field welding in other areas will be permitted only when opproved by the Engineer.

Anchor bolts shall be set before bolting cross frames over supports. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

Protective coat shall not be applied to surfaces to mitch Hatesproofing Membrane System is opplied.

Expansion bolts shall consist of self drilling expansion anchors and & # x /Z" hooked bolls.

Bearing Seat surfaces shall be constructed or adjusted to the designated siavations within a folerance of '8'. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two & adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Any structure excovation required shall be incidental to Concrete

TOTAL BILL OF MATERIAL

I fair		Suber	<i>5ແລ</i> ້	Total
Bituminous Concrete Suctoce Erse Mass I	275	67	;	67
Removal of Existing Superstructures	€20.7			. /
Concrete Removal	Su. 43.		.'53	153
Class X Conocete	Cu. tels	376.4	. 153.0	497. 4
Reinforcement Sars	₹55.	98480	17,600	1150 80
Structural Steet	2.5	Z.S.		L.S.
Expansion Bolts (3s*4)	Esch		72	72
Nome Piates	Esch			1
Preformed Joint Sealer (41)	Lin Ft.	34	}	34
Neoprene Exp. Joint (41)	Zin = Z	33		33
Sheer Stud Connectors	Each	C385		2385
Protective Coat	50,/20.	285		285
Malesproofing Membrane System	57765.	1199		1199
Stone Riprop	54.703	and the state of t	454	454

DESIGN STRESSES

fe - 1400 pair Sub. Curb & Paraper)

fc = 1200 psi (Desr Slab) fs = 20000 psi (Reinf.)

10 * 20000 psi(Struct.)(M183) fs = 27000 psi(Struct.)(M222)

Allow 25 % for fut. W. S. Design Specifications : 1973 AASHTO. 1974 and 1975 Interim Specifications.

SCALE:

LOCATION SKETCH

GENERAL PLAN & ELEVATION FA.RTE. II OVER MIDDLE FORK OF VERMILION RIVER F.A. RTE. II SECTION 36 BR VERMILION COUNTY

STA 1362+32.35

* PIATT & VERMILION

CONTRACT NO. 70C59

35 21

COUNTY

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\$MODELNAME\$	PLOT DATE = 1/5/2017	DATE -	REVISED -

PROPOSED PROFILE FARTE.II

CHECKED

CHECKED

DRAWN V.H.

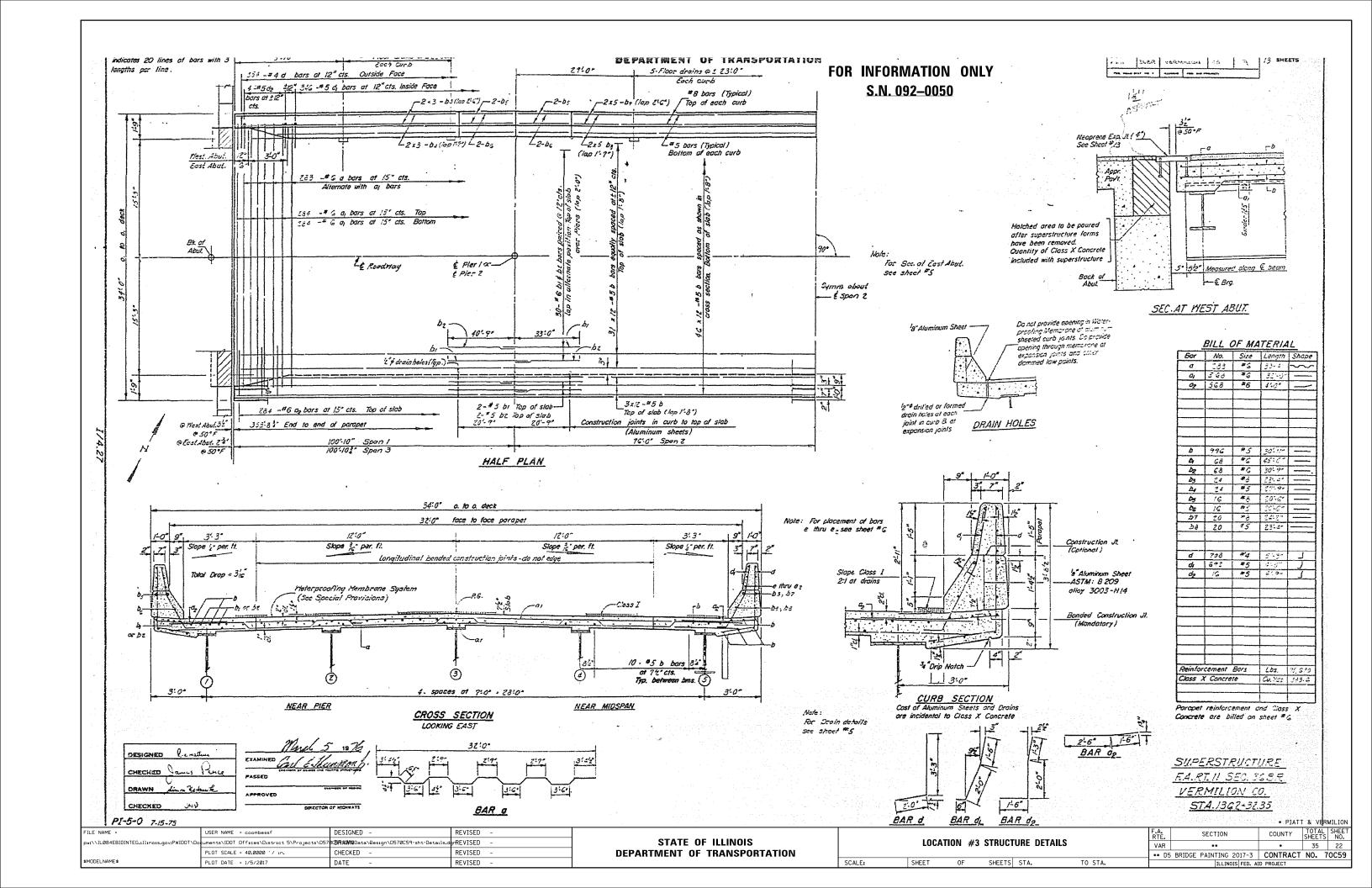
(@ & Rdwy.)

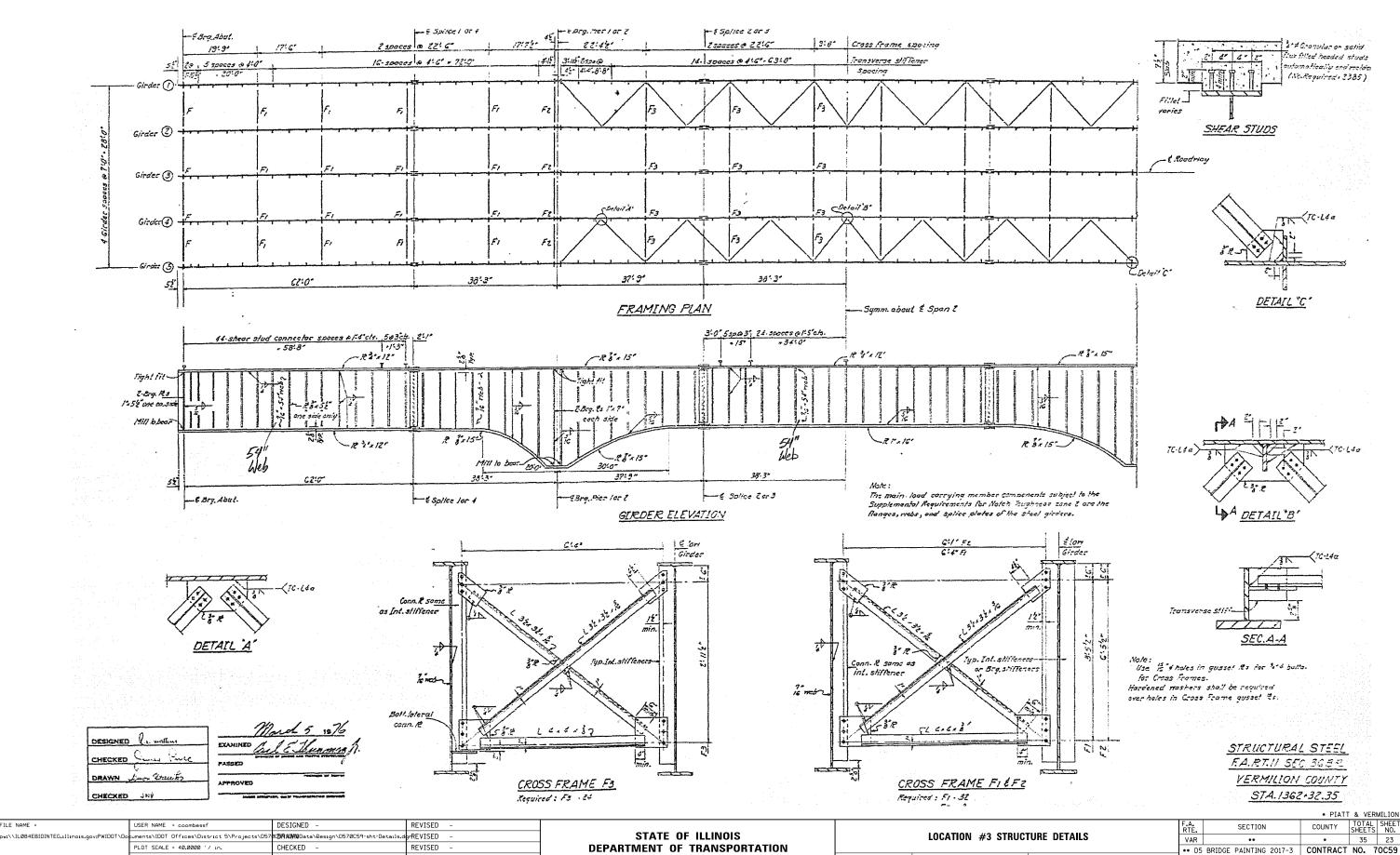
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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LOCATION #3 STRUCTURE DETAILS				AILS	VAR	**	Г
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Proposed Reconstruction





SCALE:

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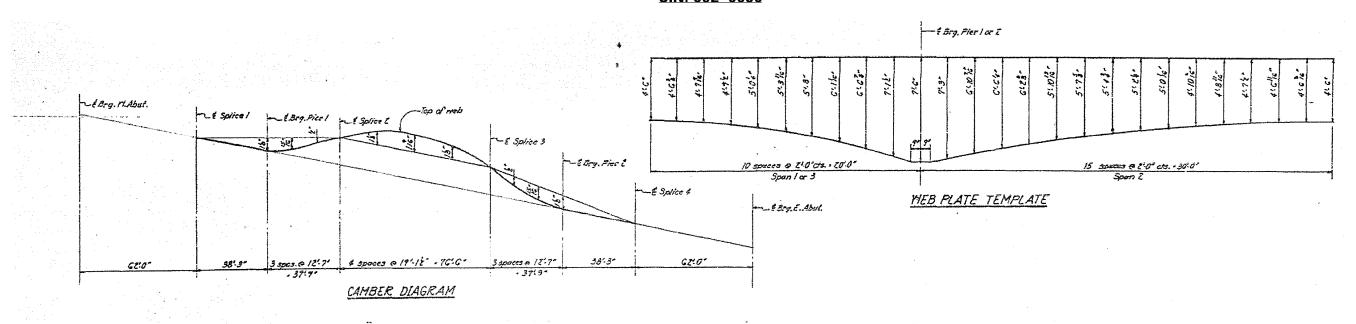
TO STA.

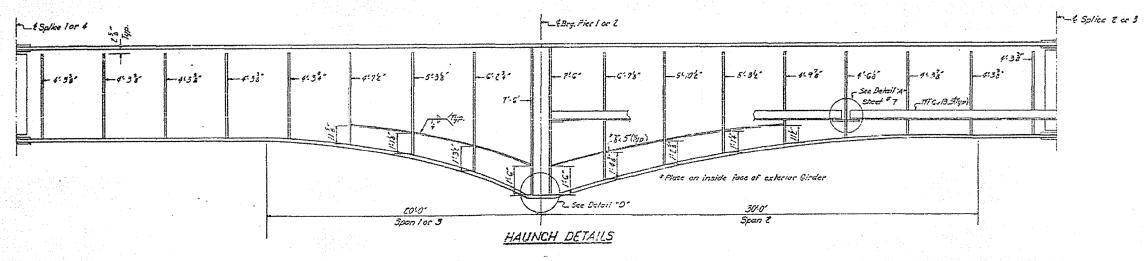
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PLOT DATE = 1/5/2017

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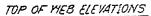
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OETAIL 'D'

STRUCTURAL STEEL-DETAIL
FA.RT.II SEC.36 BR
VERMILION COUNTY
STA.1362+32.35

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				580.463	
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£ Splice Z	577.900	578.030	578.023	578.020	577, 9 50
€ Splice 3	575.237	575.357	575.4GS	575.357	575.237
€ 5ra Per 2	573.776	573.596	574.005	573.875	523.27C
É Splice 4	572.511	572.53!	572.640	572.531	577,611
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	24) 46022		50601
55 (in	·³) 693	1758	39/
	3) 960		1338
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13 # (k:	5/1 6.4	17.0	9.9
32 (k	11) 0.493		0.493
HSE (1	t) 278		G32
ME U	t) 788	966	1081
Hima (1	er 175	198	/9G
Total lin	() 1241	1158	1909
BA CH	9/1 15.5	7.9	17-1
& TOTAL (X	317 21.9	74.9	27.0
VR (2	58		19.7

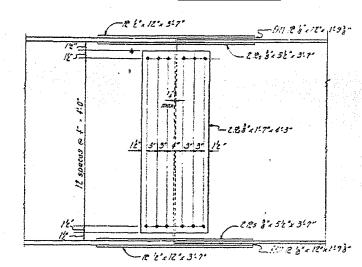
INTERIOR GI	POER REA	CTION TABLE
	Abul.	Ples.
Re (k)	13.G	197.2
R& (x)	40.G	77.2
Imp. (k)	9.0	15.4
KTOTAL(E)	93. Z	789.8

CHECKED

Is and Ss are the moment of inactia and Section modulus of the steel section.

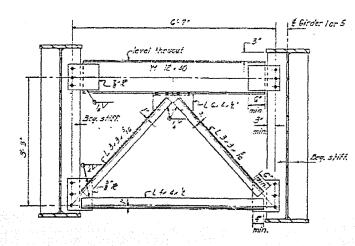
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs.

VR is the maximum & timpact sheer tange.



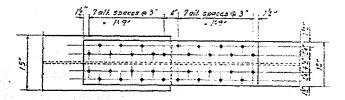
	<u>/</u>	Galternate spes.	4*. 6 all. spaces@3* 1/2*	
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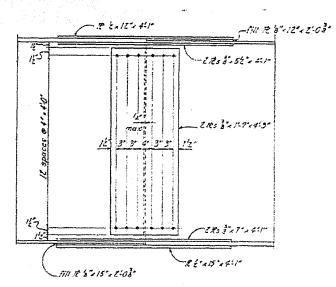
SPLICE 164 3 H.S. Bolts

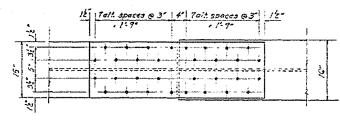


#### END CROSS FRAME-F 8 · Required

Use is anies in gussel Rs for & 4 bolts. Hardened markers shall be required over holes.





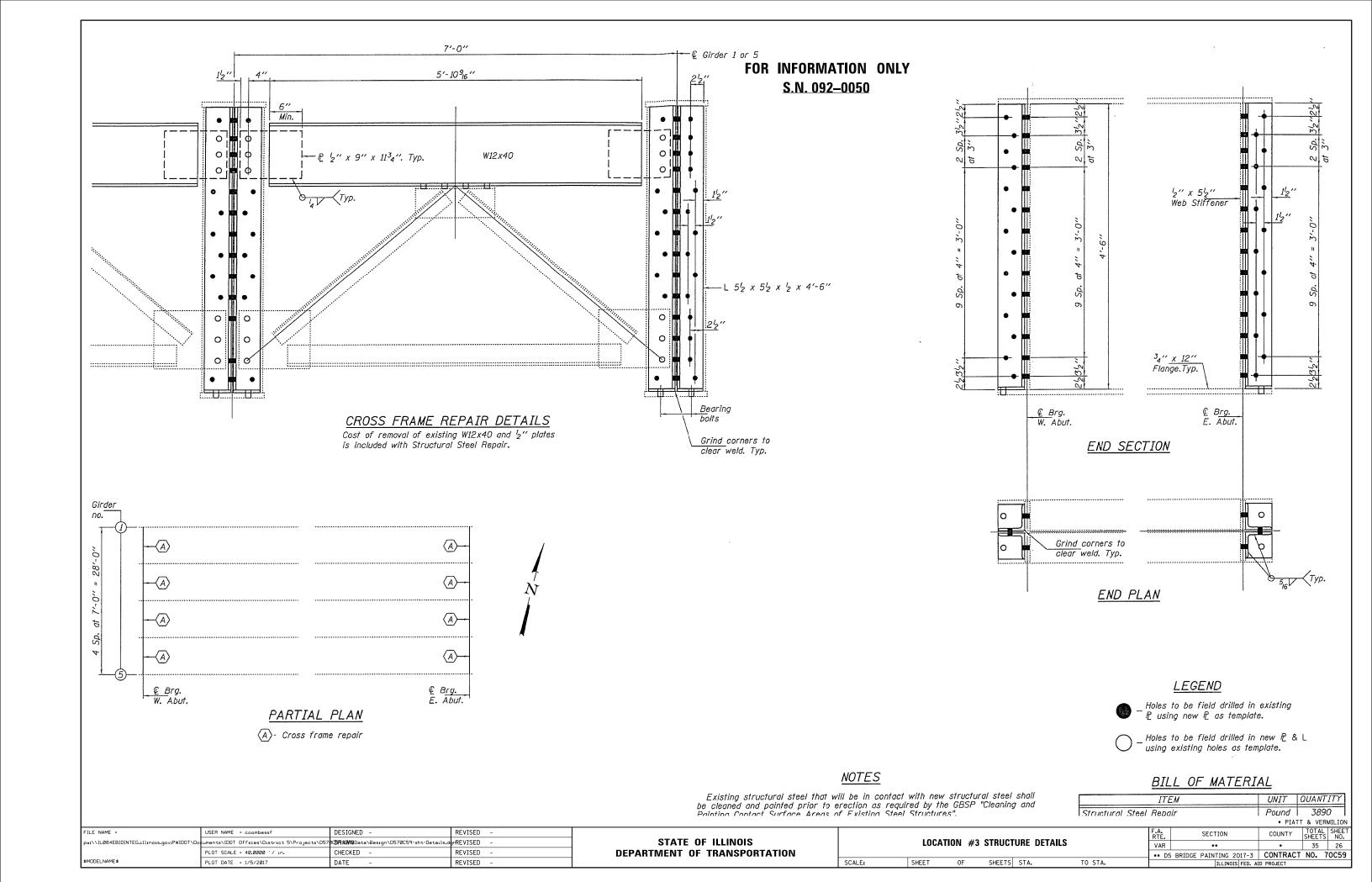


SPLICE 2#3 8" # H. S. Bolts

in gusset Rs.

STRUCTURAL STEEL DETAILS F.A. RT. II SEC. 36 B.E. VERMILION COUNTY STA.13G2+32.35

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# € 34"\$ Bolts, 78"\$ -⊈ Beam holes in Beam Flange 3" Shim P As reg'd Side Retainer (Typ.) Bearing Assembly '8" elastomeric neoprene leveling pad according to the material properties 114" 114 of Article 1052.02(a) of the Standard

#### ELEVATION AT ABUTMENT

SECTION A-A

2'-24"

#### TYPE II TFE ELASTOMERIC EXP. BRG.

Specifications. Cost included with

Elastomeric Bearing Assembly Type II.



R₽	(K)	43.6
R€	(K)	40.6
Imp.	(K)	9.0
R (Total)	(K)	<i>93.2</i>

#### Notes:

Diaphragm removal and reinstallation may be required to

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 55 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554.

and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according

after boits are installed.

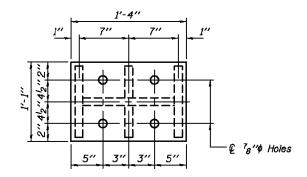
Drilled and set anchor boits shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

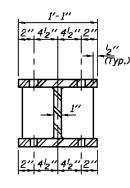
The 'g" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity energy responses of the

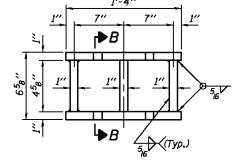
epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 'g" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



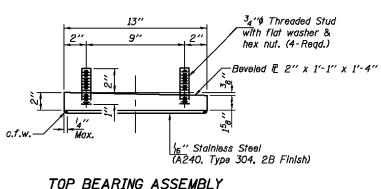
#### PLAN TOP AND BOTTOM PLATE





SECTION B-B

#### STEEL EXTENSION DETAIL

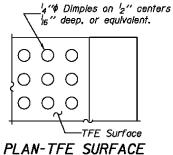


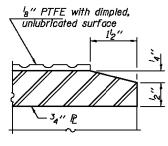
TFE

·尼 13g" x 11" x 2'-2'4"

BOTTOM BEARING ASSEMBLY

-@ 1½′′¢ Holes





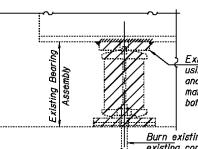
€ 1"\$ x 12" Anchor Bolts (Gr. 36) with 212" x 212" x 56" ft washer under nut.

 $I_2''$  holes in bottom R.

# SECTION THRU TFE

€ 14"\$ Hole —

# **WEST ABUTMENT BEARING REPLACEMENT DETAILS**

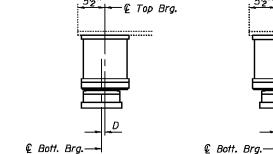


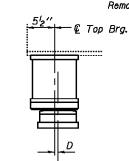
Existing 12 to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor boll smooth and seal with epoxy.

## EXISTING BEARING REMOVAL DETAIL

Cost Included with Jack and Remove Existing Bearings.





# BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	920
Anchor Bolts 1'4	Each	10

		<u>BEL</u>	OW 50	<u>)° F.</u>				4	BOV	E 50° F	<u></u>	
(Move	bott.	brg.	away	from	flxed	brg.)	(Move	bott.	brg.	toward	fixed	brg.

# SIDE RETAINER

Equivalent rolled angle with stiffeners

#### SETTING ANCHOR BOLTS AT EXP. BRG. $D = {}^{l}_{\theta}$ " per each 100' of expansion for every 15° temp.

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8 Layers of 716" Elastomer (55 Durometer)

7-1₈'' Steel Plates

STATE OF ILLINOIS
<b>DEPARTMENT OF TRANSPORTATION</b>

							+ FIAT	I & VE	VINITETOIA
					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOCA	110N #3	STRUCT	URE DETA	AILS	VAR	**	*	35	27
					** D!	BRIDGE PAINTING 2017-3	CONTRACT	NO.	70C59
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# © 34″¢ Bolts, 78″¢ holes in Beam Flange Shim P 34"\$ Studs Bearing Assembly

**ELEVATION AT ABUTMENT** 

# FOR INFORMATION ONLY S.N. 092-0050

# BEAM REACTIONS

43.6
40.6
9.0
93 <b>.</b> 2

Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection baits are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
Min. jack capacity = 55 Tons.
Anchor boits shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor botts may be used in Ileu of ASTM F1554

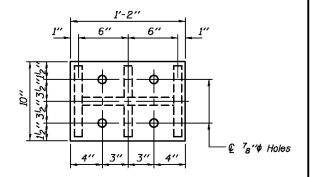
and diameter(s) specified. ASIM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported

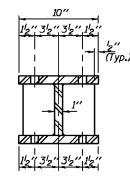
member is in place.

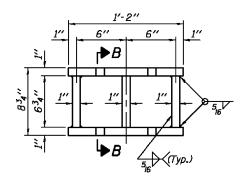
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.



#### PLAN TOP AND BOTTOM PLATE

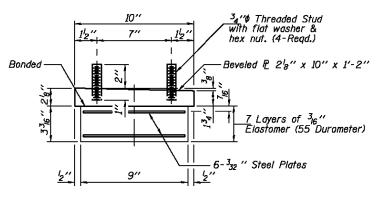




SECTION B-B

STEEL EXTENSION DETAIL

## TYPE I ELASTOMERIC EXP. BRG.



# **EAST ABUTMENT BEARING REPLACEMENT DETAILS**

Side Retainer (Typ.)

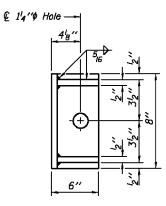
 $\underline{\underline{C}}$  1" $\phi$  x 12" Anchor Bolts (Gr. 36) with  $\overline{2}_2$ " x  $2_2$ " x  $\overline{5}_6$ "  $\underline{\mathbb{C}}$  washer under nut.

Existing 12 to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

#### BEARING ASSEMBLY

Shim plates shall not be placed under Bearing Assembly.



## SIDE RETAINER

6"

1'-6'2"

SECTION A-A

94"

Equivalent rolled angle with stiffeners

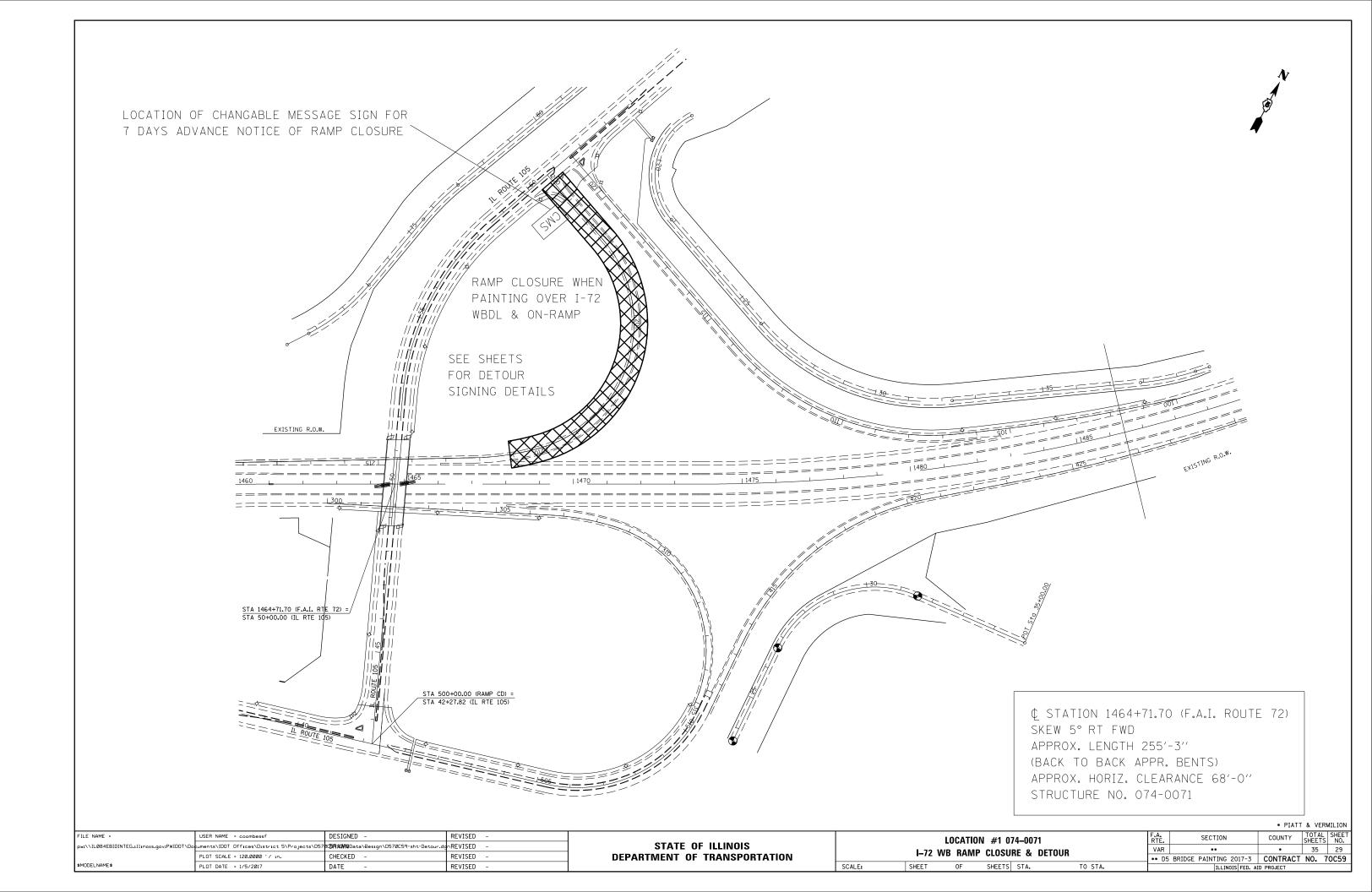
#### EXISTING BEARING REMOVAL DETAIL

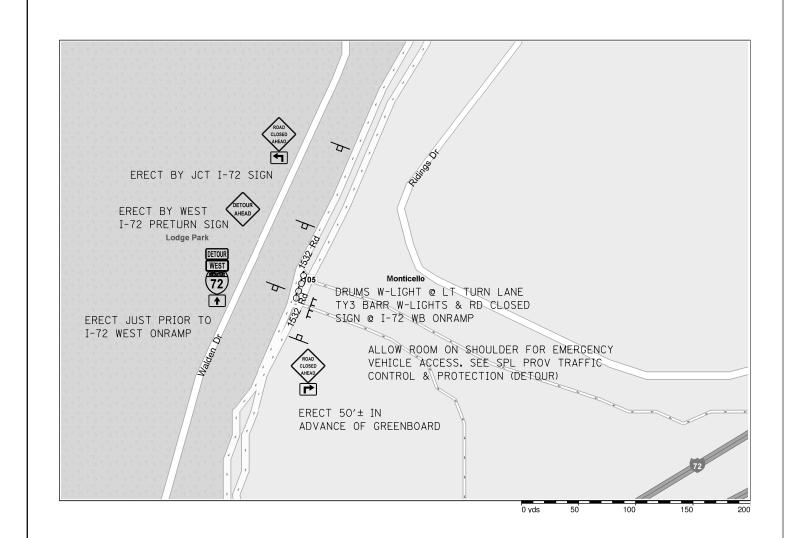
Cost Included with Jack and Remove Existing Bearings.

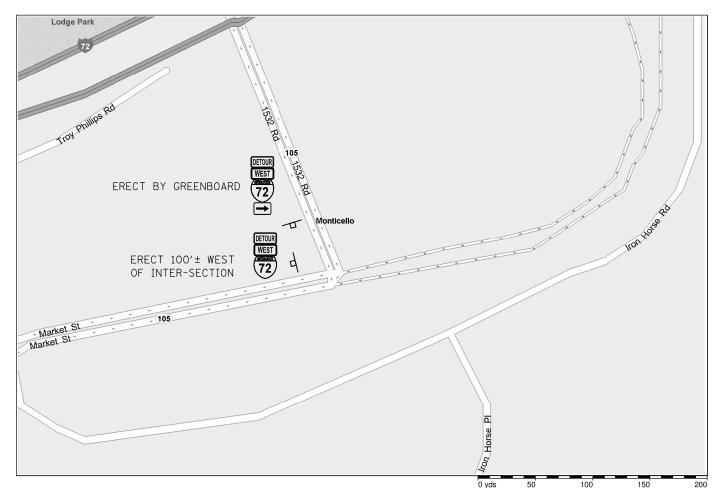
#### BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	770
Anchor Bolts 1"#	Each	10

#### * PIATT & VERMILION FILE NAME = DESIGNED -REVISED USER NAME = coombessf SECTION COUNTY STATE OF ILLINOIS LOCATION #3 STRUCTURE DETAILS w:\\ILØ84EBIDINTEG.:111:no:s.gov:PWIDOT\ ments\IDOT_Offices\District_5\Projects\D57**0GRAMMO**Data\Design\D570C59-sht-Detail rREVISED VAR 35 28 CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** •• D5 BRIDGE PAINTING 2017-3 CONTRACT NO. 70C59 SCALE: SHEET SHEETS STA. TO STA. PLOT DATE = 1/5/2017 DATE REVISED







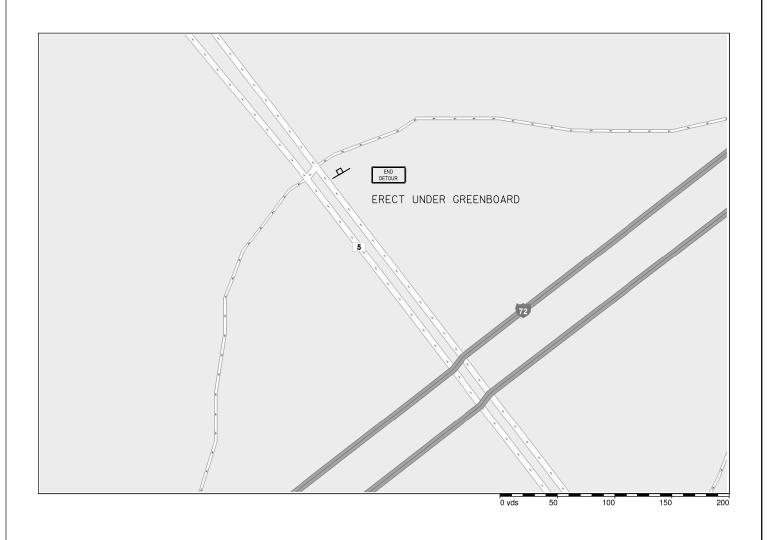
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# <u>IL 105 & BRIDGE ST – MONTICELLO</u>

# E Lincoln St ERECT BY 30 MPH SPD LIMIT SIGN MOUNT BY SIGNAL WEST © RADIUS TO THE PROPERTY OF THE PROPERT ERECT BY DOLLAR GENERAL SIGN Center St 5 W Center St E Center St Eagle Creek Park Railroad St E Railroad St W Livingston St

# **EXIT 164 - I-72 & BRIDGE ST**



						_				
LOCATION #1 074-0071						F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
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I-72 WB RAMP CLOSURE & DETOUR							BRIDGE PAINTING 2017-3	CONTRACT	70C59	
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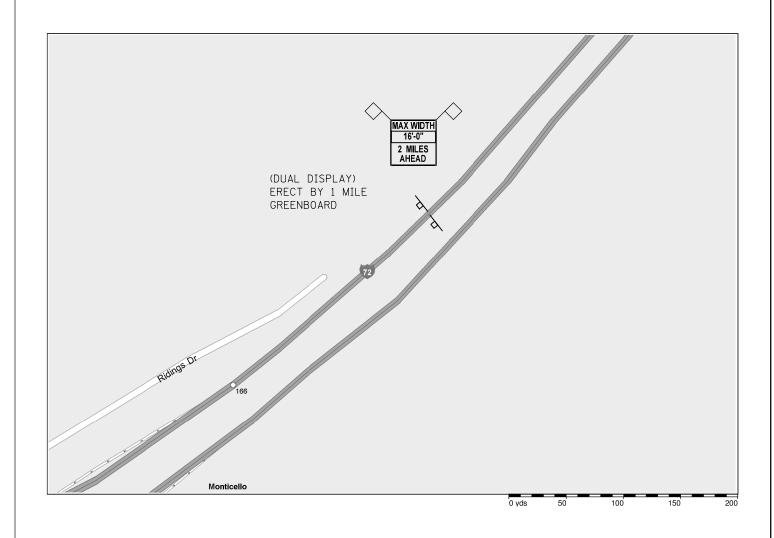
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# **LOCATION** #1

<u>I–72 EB – 074–0071</u>

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# <u>l-72 WB - 074-0071</u>



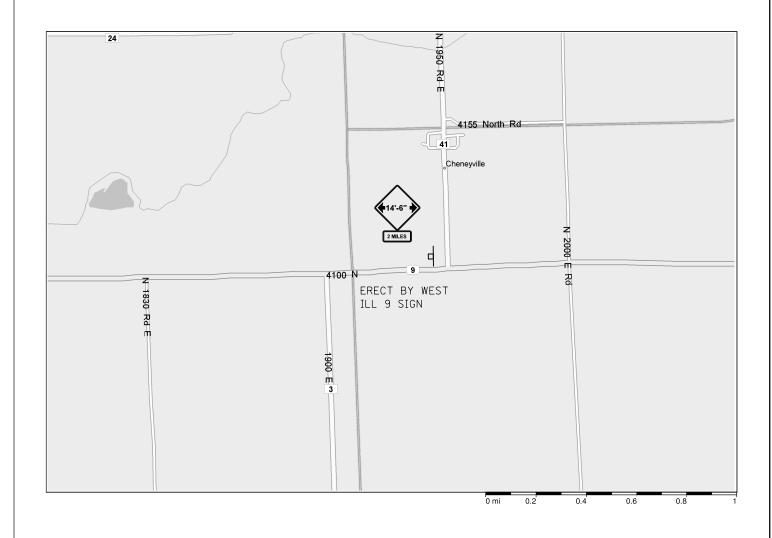
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# **LOCATION #2**

# **HOOPESTON - 092-0048**

# 

# CHENEYVILLE - 092-0048



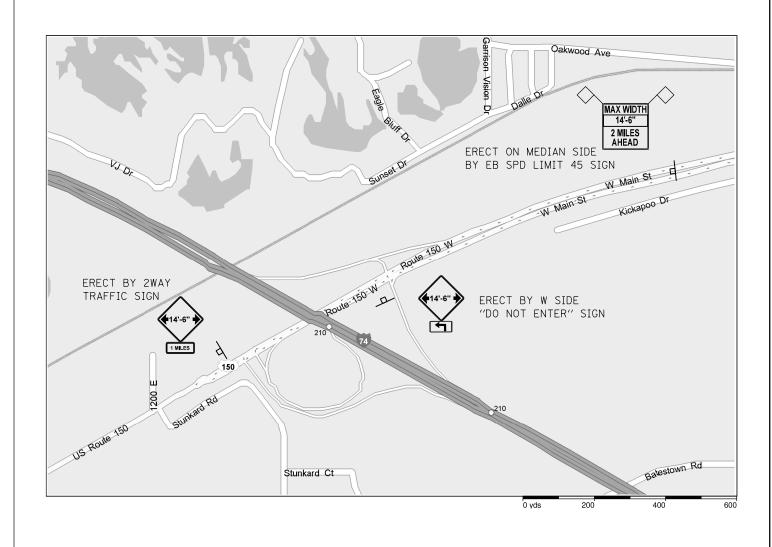
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# **LOCATION #3**

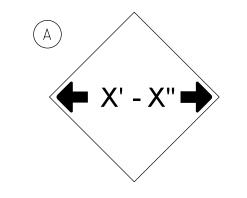
# <u>OAKWOOD - 092-0050</u>

# W. Park B. Park B.

# <u>US 150 & I-74 - 092-0050</u>



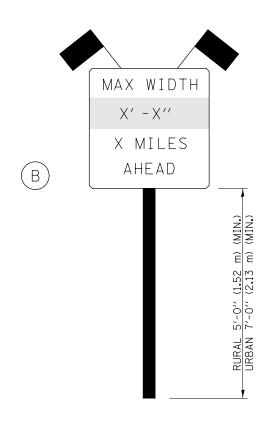
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W12-2(0)-48"×48"(1200×1200)

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

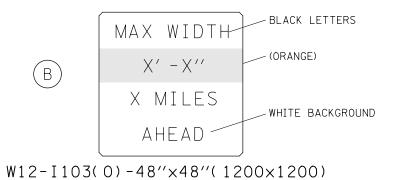
SIGN(B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II

# 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.



#### MAX WIDTH

"D" LETTERS/NUMBERS

LOCATION #1 - 074-0071 = 16'-0" LOCATION #2 - 092-0048 = 14'-6" LOCATION #3 - 092-0050 = 14'-6"

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

• PIATT & VERMILION

DISTRICT 5 DETAIL NO. X7200201

FILE NAME = DESIGNED -REVISED USER NAME = coombessf STATE OF ILLINOIS WIDTH RESTRICTION SIGNING ow:\\ILØ84EBIDINTEG.:111:no: uments\IDOT Offices\District 5\Projects\D57**803RXWW**Data\Design\D570C59-sht-WRD.dgn REVISED CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** ** D5 BRIDGE PAINTING 2017-3 | CONTRACT NO. 70C59 SCALE: SHEET OF SHEETS STA. TO STA. PLOT DATE = 1/5/2017 DATE REVISED ILLINOIS FED, AID PROJECT