

**NOTES**

THE IMPROVEMENTS COVERED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE PLACEMENT OF PAVEMENT MARKINGS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), 2011 EDITION, AS AMENDED.

DO NOT OPEN STRUCTURE TO TRAFFIC UNTIL ALL PROPOSED CONCRETE ATTAINS 100% OF ITS SPECIFIED STRENGTH.

APPLY CONCRETE SURFACE COATING TO THE ENTIRE EXPOSED SURFACE OF ABUTMENTS (EXCEPT THE TOPS) AND TO THE ENTIRE EXPOSED SURFACE OF THE PIERS (EXCEPT TOP). USE LIGHT GRAY URETHANE PROTECTIVE COAT, AMS-STD-595 COLOR NUMBER 16440.

APPLY SUBSTRUCTURE HORIZONTAL SURFACE SEALER TO THE TOP OF ALL PIERS AND ABUTMENTS. CLEAN ACCIDENTALLY COATED VERTICAL SURFACES AT CONTRACTORS EXPENSE.

COAT STRUCTURAL STEEL ACCORDING TO SECTION 716 OF THE STANDARD SPECIFICATIONS. USE LIGHT GRAY URETHANE PROTECTIVE COAT, AMS-STD-595 COLOR NUMBER 16440.

APPLY CONCRETE SURFACE COATING TO THE ENTIRE CONCRETE SURFACE OF BRIDGE BARRIER. USE CONCRETE SURFACE COATING AMS-STD-595 COLOR NUMBER 16440.

REMOVE ALL ACCUMULATED FOREIGN MATTER FROM THE BRIDGE DECK INCLUDING SIDEWALK, CURBS, EXPANSION JOINTS, TOP OF ABUTMENTS, INCLUDING BEARINGS, TOPS OF PIERS, INCLUDING BEARINGS, LOWER FLANGES OF BEAMS. STAGE WORK SUCH THAT ELEMENTS ARE CLEAN AND FREE OF DEBRIS AFTER COMPLETION OF ALL BRIDGE WORK. IF CLEANING OF ELEMENTS IS REQUIRED FOR ACCESS OR TO SAFELY PERFORM WORK OPERATIONS, CLEANING MAY BE REQUIRED BEFORE AND AFTER OTHER ITEMS OF WORK. INCLUDED IN THE ITEM "BRIDGE CLEANING, STRUCTURE XXXX".

REMOVE AND REPLACE ONLY THAT PORTION OF BARRIER, SIDEWALK AND BRUSH BLOCK THAT IS NECESSARY FOR INSTALLATION OF THE DECK JOINT.

SOUND CONCRETE BEFORE OVERLAYING TO DETERMINE WHETHER THE REMOVAL AT EITHER SIDE OF TRANSVERSE JOINTS WILL BE ADEQUATE. INCREASE THE REMOVAL LIMITS AS APPROVED BY THE ENGINEER.

CONSTRUCT BRIDGE OVERLAY TO CROSS SLOPE TO MATCH EXISTING CROSS SLOPE

HEAVY EQUIPMENT, INCLUDING CONCRETE TRUCKS AND VACUUM TRUCKS FOR REMOVING CONCRETE DEBRIS, ARE NOT ALLOWED ON HYDRODEMOLISHED SURFACES OF THE DECK.

THE ENGINEER WILL INSPECT THE STRUCTURAL STEEL PARTS THAT HAVE BEEN BLAST CLEANED FOR EVIDENCE OF CRACKS OR LOSS OF SECTION DUE TO CORROSION OF MORE THAN 25 PERCENT. THE ENGINEER WILL REPORT DETERIORATION IN WRITING TO THE REGION BRIDGE ENGINEER.

IMPLEMENT MEASURES TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. (IF DEBRIS FALLS INTO THE WATERWAY, REMOVE IT WITHIN 24 HOURS. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARMFUL AS THE DEBRIS ITSELF, THE PREVENTIVE MEASURES MUST BE EFFECTIVE. REMOVAL OF DEBRIS IS INCLUDED IN RELATED ITEMS OF WORK.

THE DESIGN OF THE STRUCTURAL MEMBER IS BASED ON MATERIAL OF THE FOLLOWING GRADE AND STRESSES:

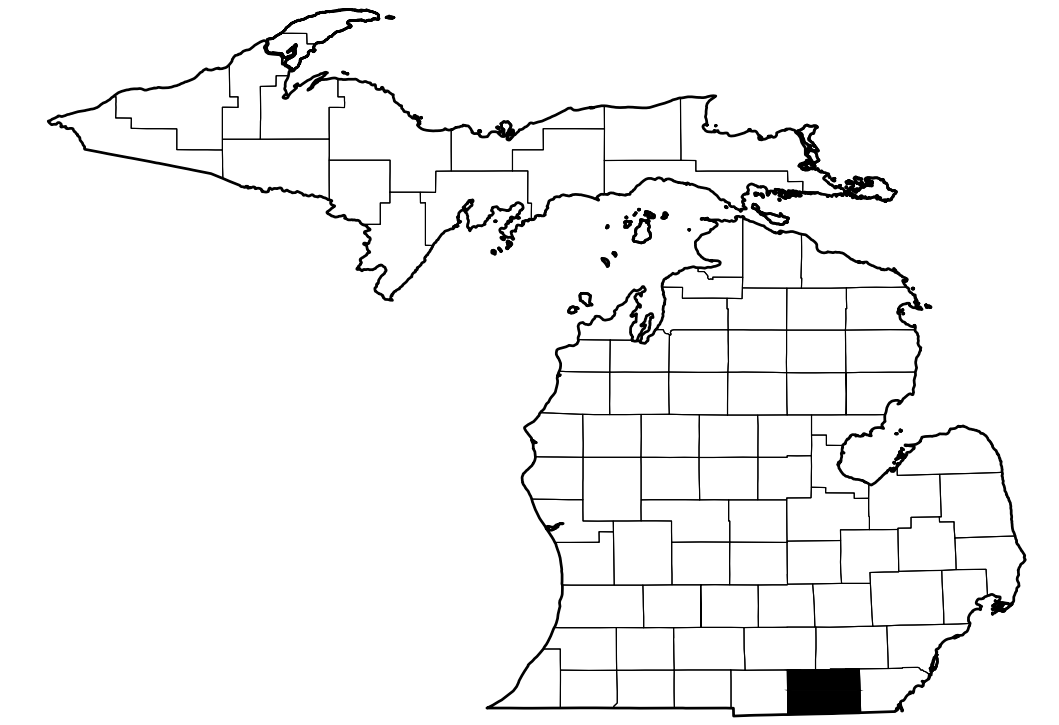
PATCHING, CONCRETE C-L  $f_c=3,000$  psi  
 CONCRETE, SILICA FUME MODIFIED (SMFC)  $f_c=4,000$  psi  
 STEEL REINFORCEMENT  $f_y=60,000$  psi

FOR DETAILS OF CONCRETE SLOPE PAVING PROTECTION, SEE STANDARD PLAN B-102-SERIES.

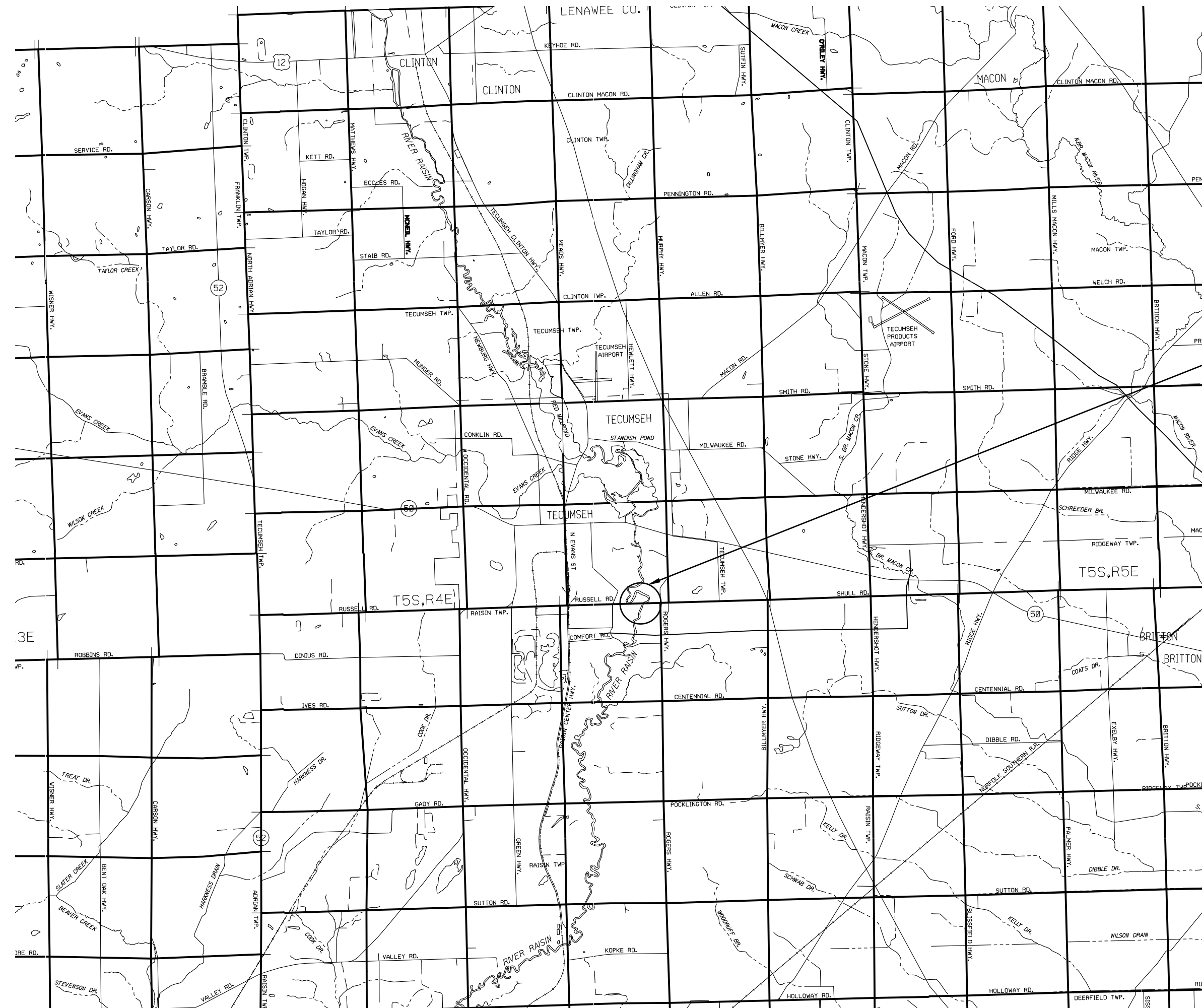
THIS PROJECT HAS BEEN EVALUATED USING THE FAA NOTICE CRITERIA TOOL FOR A MAX STRUCTURE HEIGHT OF 100 FEET ABOVE GROUND LEVEL HEIGHT OF 792 FEET AND NO PERMIT IS REQUIRED.

# CITY OF TECUMSEH DEPARTMENT OF PUBLIC WORKS

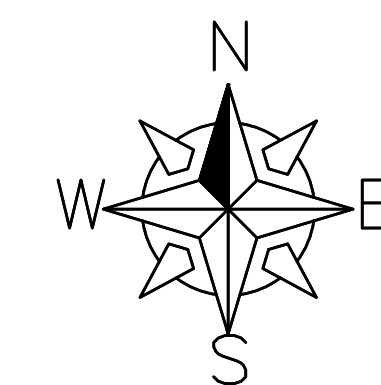
## CAPITAL PREVENTATIVE MAINTENANCE FOR EAST RUSSELL ROAD OVER RIVER RAISIN



KEY MAP  
NOT TO SCALE



STR 5725  
EAST RUSSELL ROAD  
OVER RIVER RAISIN



LOCATION MAP  
NOT TO SCALE

SHEET INDEX	
GENERAL SHEETS	SHEET NO.
COVER SHEET	1
EAST RUSSELL ROAD MOT	2
EAST RUSSELL ROAD NOTES AND QUANTITIES	3
EAST RUSSELL ROAD EXISTING SHEETS	4-6
EAST RUSSELL ROAD REMOVAL AND PROPOSED PLAN	7
EAST RUSSELL ROAD EXPANSION JOINT DETAILS	8

THE REGULATED WASTE ACTIVITY IDENTIFICATION NUMBERS FOR THIS PROJECT ARE AS FOLLOWS:  
 CONTROL SECTION: NUMBER:  
 464665400038 MIK171412031

PROJECT DESCRIPTION: CAPITAL PREVENTATIVE MAINTENANCE ON EAST RUSSELL ROAD OVER THE RIVER RAISIN IN THE CITY OF TECUMSEH.

JOB NO. <b>TEC2064-01T</b>	SHEET <b>1</b>
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PREPARED UNDER THE SUPERVISION OF:



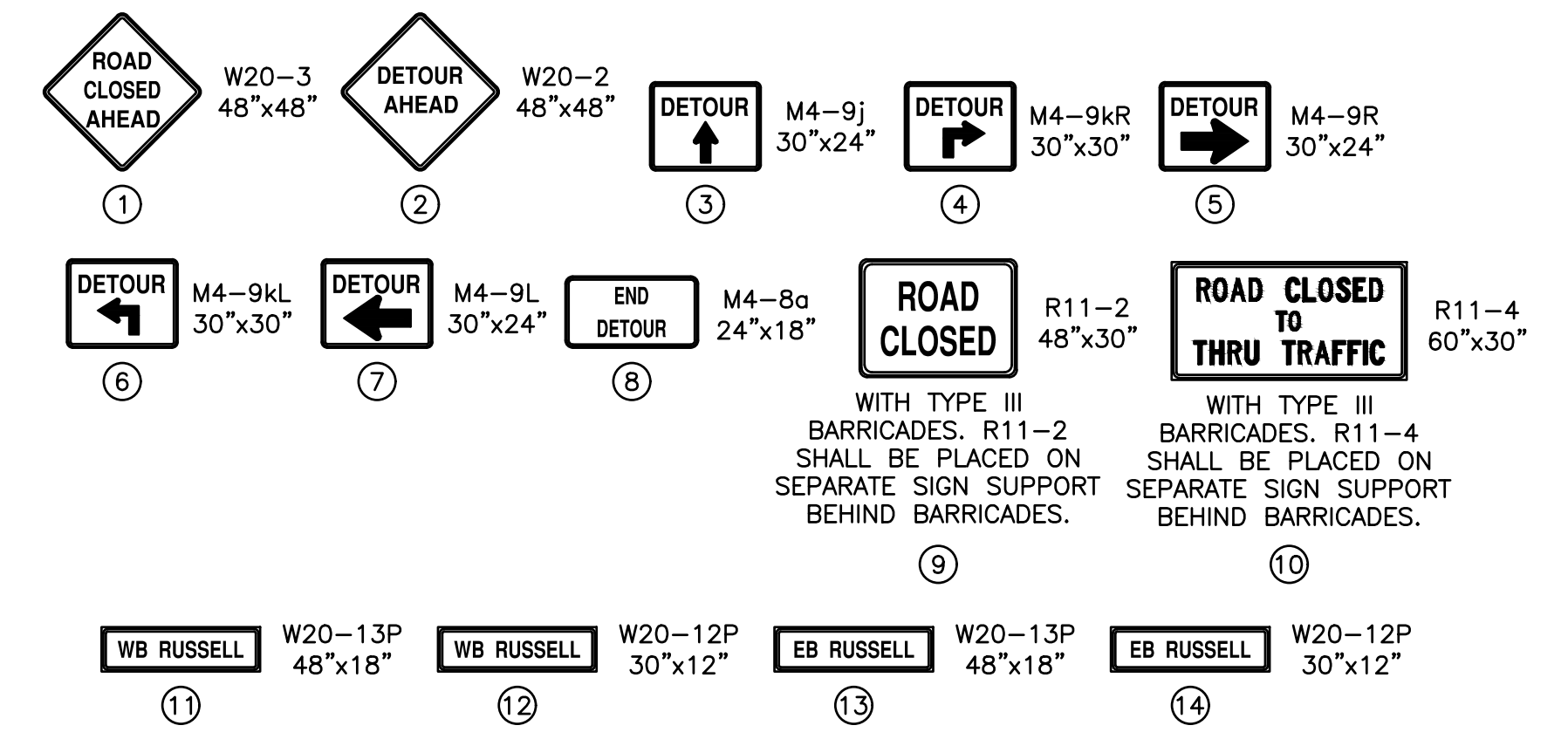
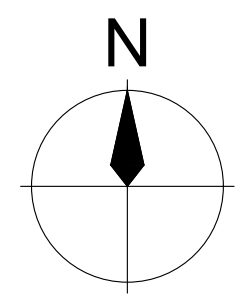
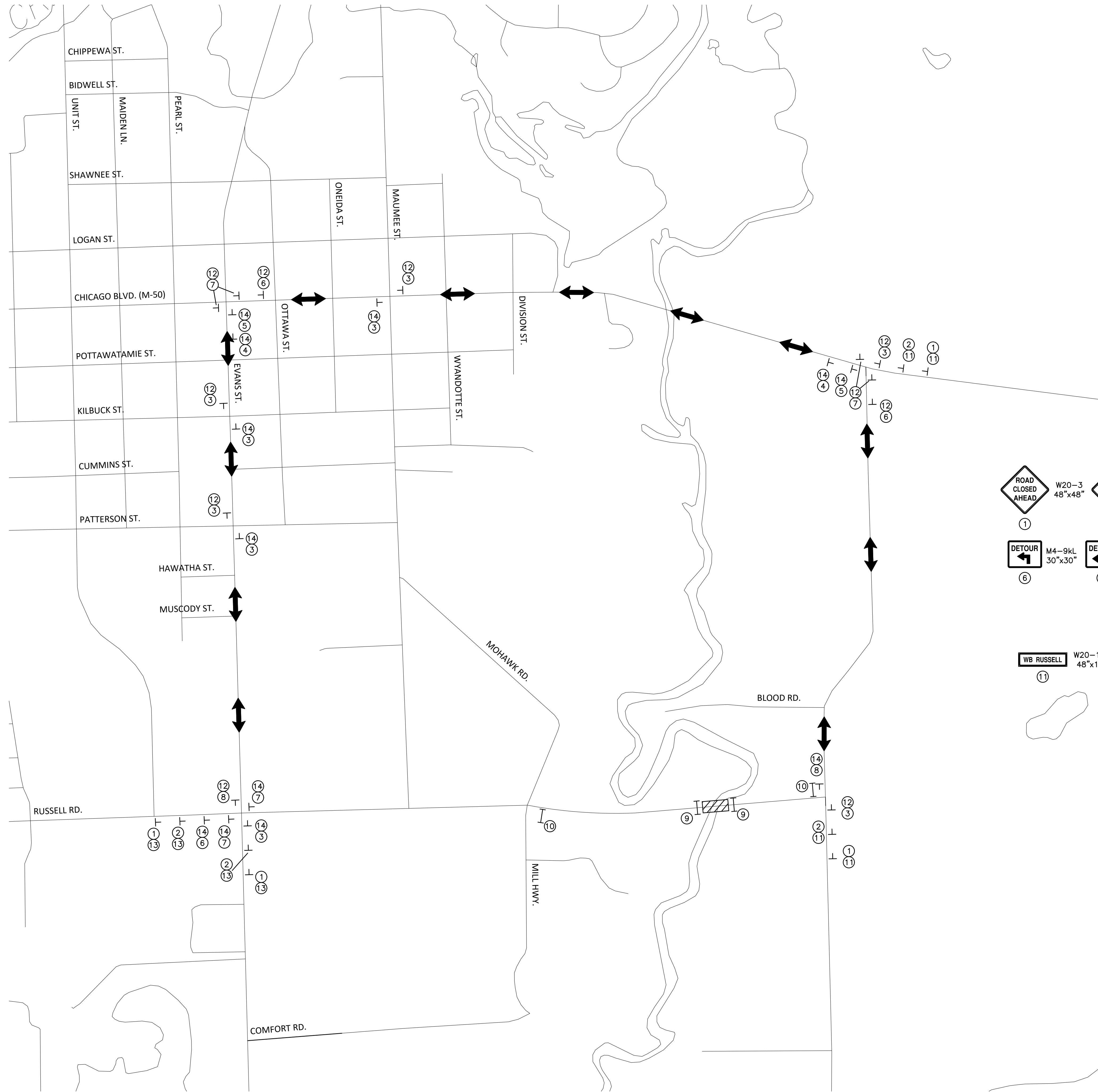
WADE TRIM, INC -  
LEON SOLOWJOW, P.E. 7/26/24  
REGISTRATION NO. 43213



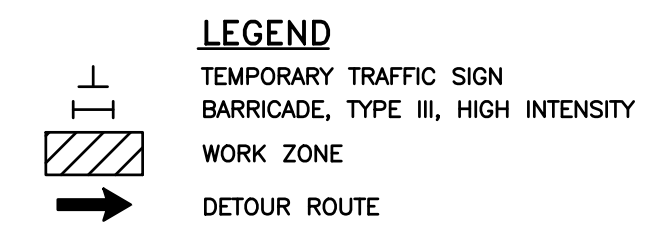
Know what's below.  
Call before you dig.

**PROTECTION OF UNDERGROUND UTILITIES**

THE CONTRACTOR SHALL CONTACT "MISS DIG" AT 800.482.7171, 811, OR VISIT WWW.MISSDIG.ORG, A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UNDERGROUND UTILITIES TO VERIFY THEIR LOCATION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE "MISS DIG" ALERT SYSTEM.



1. CONSTRUCTION, WARNING, REGULATORY, AND GUIDE SIGNS SHOWN MUST BE PLACED ACCORDING TO MDOT ZONE SAFETY AND MOBILITY MANUAL AND MAY REQUIRE FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
2. TRAFFIC SHALL BE MAINTAINED ACCORDING TO MDOT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING ANY SUPPLEMENTAL SPECIFICATIONS, MDOT'S WORK ZONE SAFETY AND MOBILITY MANUAL AND AS SPECIFIED IN THIS PLAN SHEET.
3. AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENTS MUST BE MAINTAINED AT ALL TIMES.
4. WHEN THE ROADWAY IS CLOSED, TYPE III BARRICADES WILL BE PLACED FROM FACE OF CURB TO FACE OF CURB TO COMPLETELY BLOCK TRAFFIC FROM ENTERING THE ROAD.



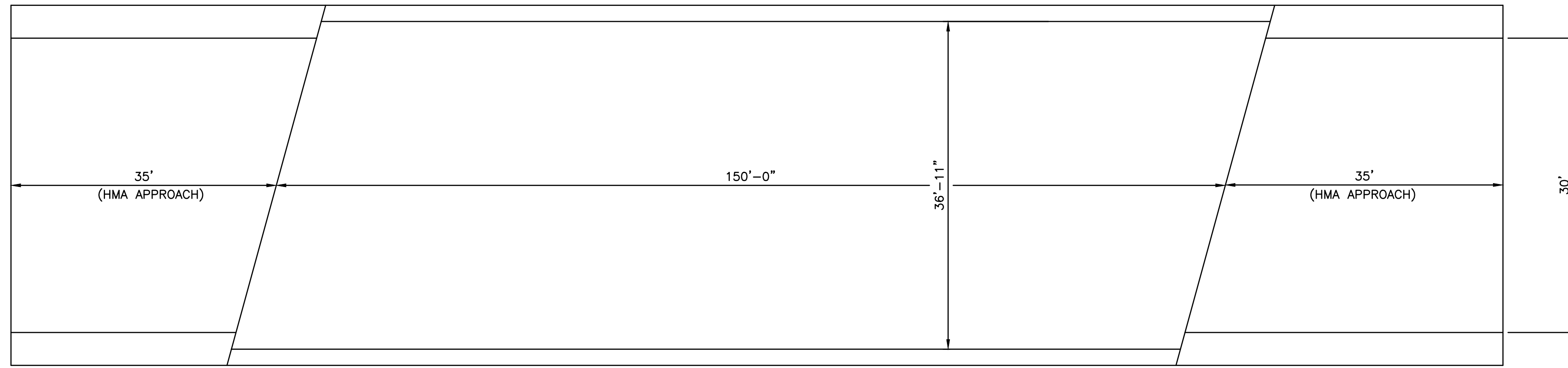
**EAST RUSSELL ROAD DETOUR**

REV#	DATE	DESCRIPTION	BY

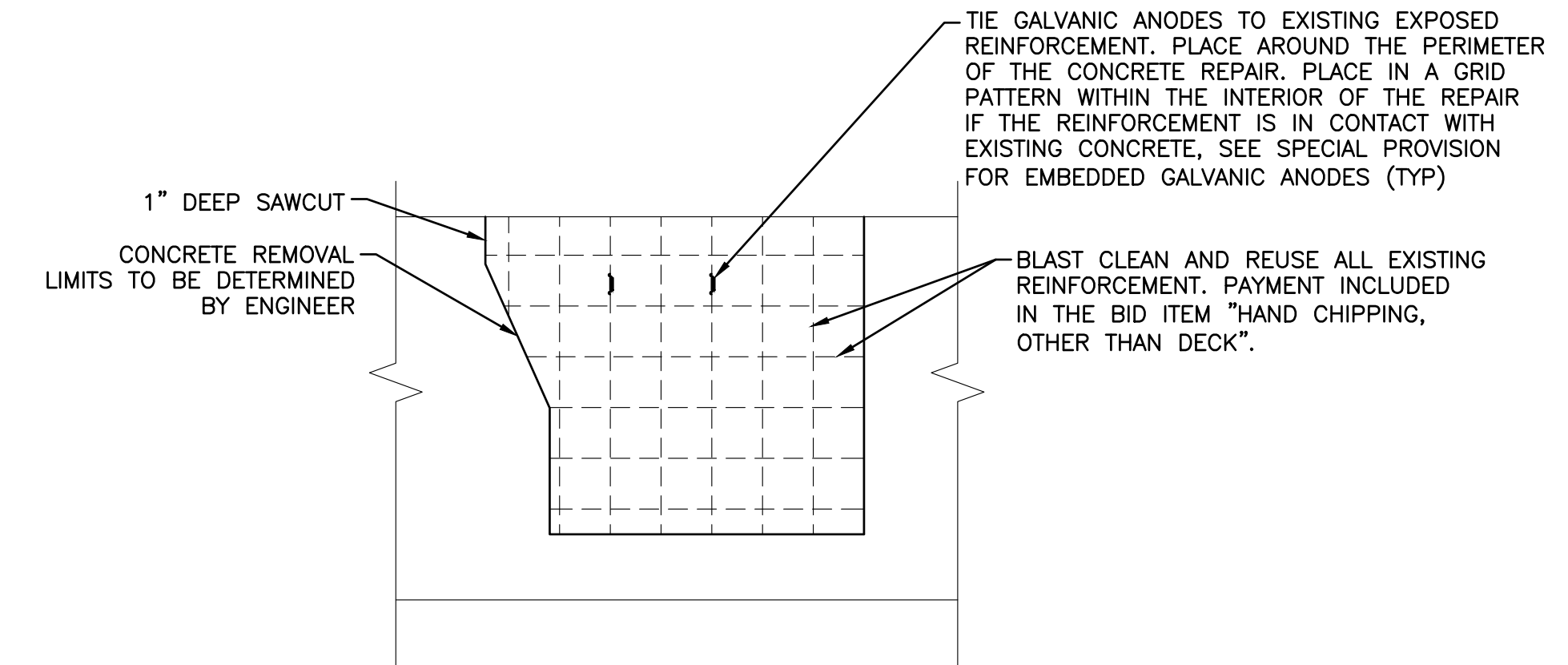
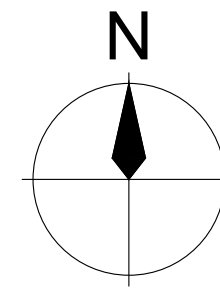
  
 25251 Northline Rd.  
 Waukegan, IL 60087  
 815.724.9177/9700  
 www.wadetrिम.com

**CITY OF TECUMSEH**  
**DEPARTMENT OF PUBLIC WORKS**  
 EAST RUSSELL ROAD OVER RIVER RAISIN  
 MAINTENANCE OF TRAFFIC

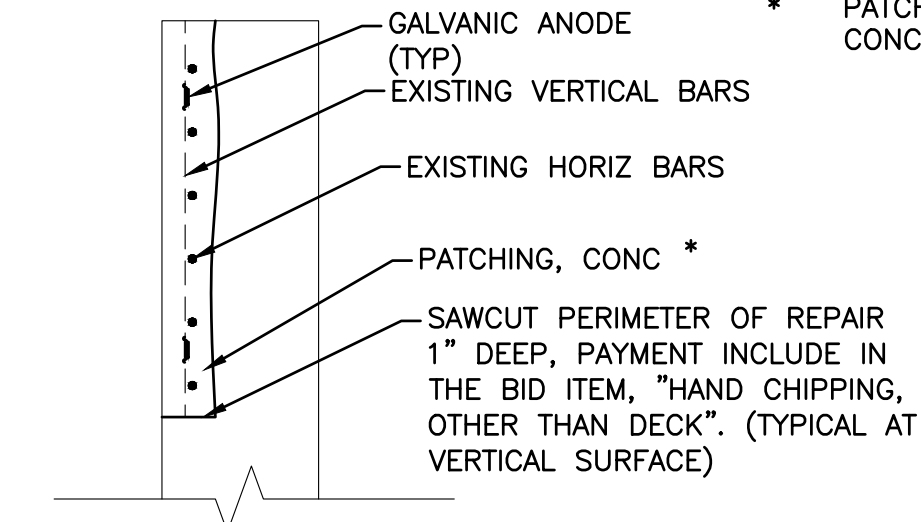
ISSUED FOR: _____	DATE: _____	BY: _____
JOB NO. <b>TEC2064-01T</b>		
SHEET <b>2</b>		



TYPICAL BRIDGE PLAN  
REMOVAL LIMITS

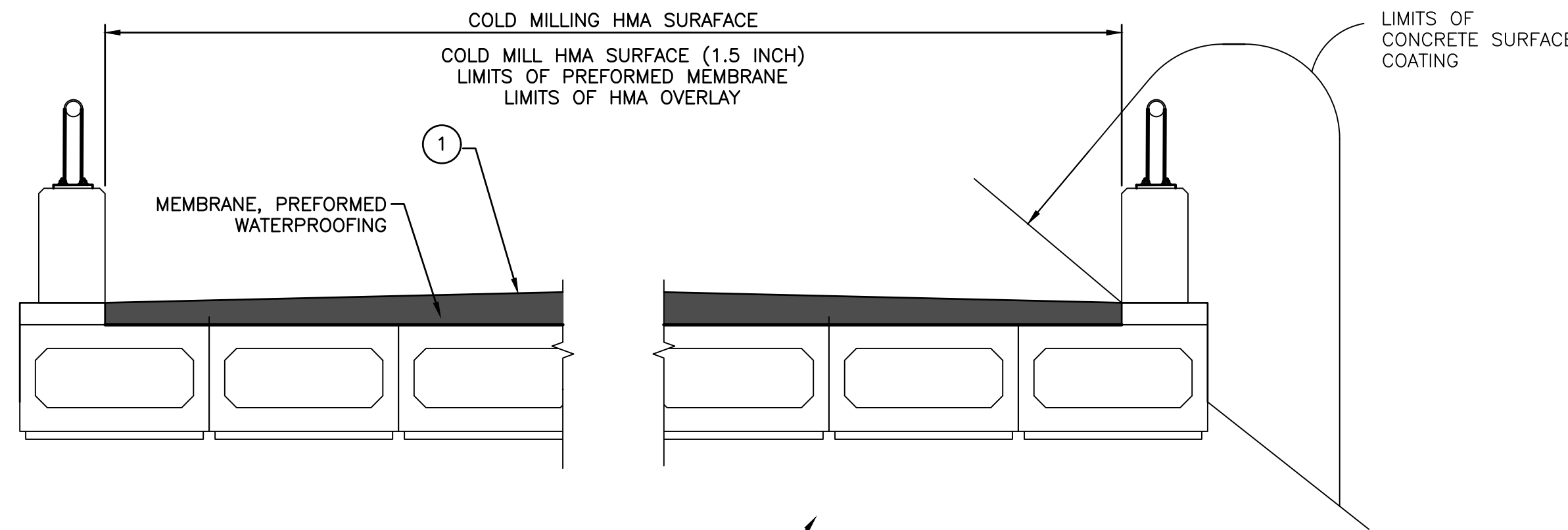


ELEVATION



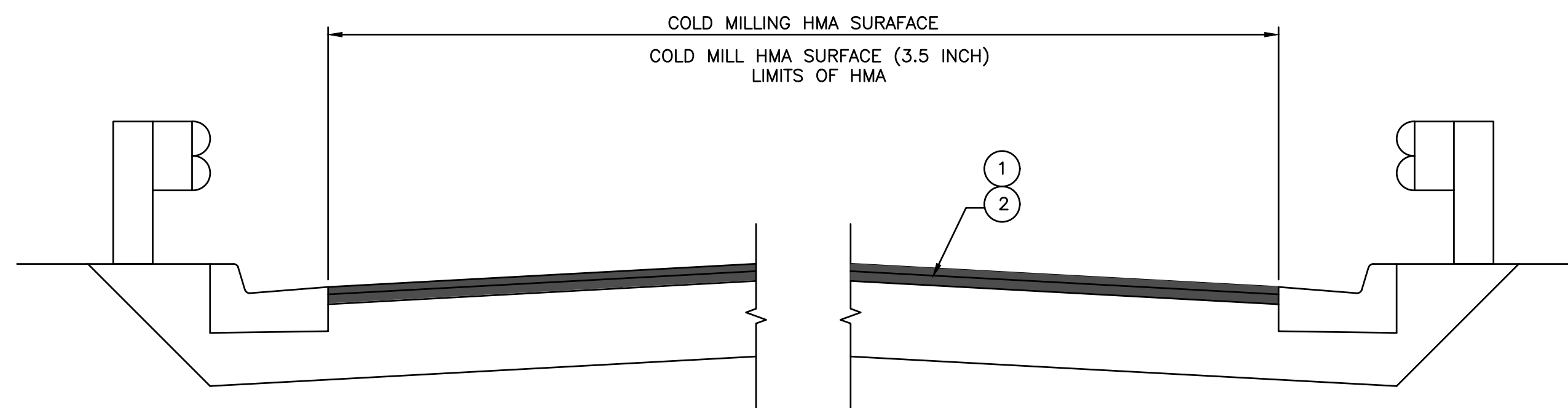
TYPICAL SECTION

TYPICAL ABUTMENT PIER CAP  
AND RAILING REPAIRS



TYPICAL BRIDGE SECTION FOR RUSSELL

LIMITS OF HMA OVERLAY  
AND PREFORMED MEMBRANE



TYPICAL APPROACH SECTION FOR RUSSELL

LIMITS OF HMA MILL AND FILL

BAR	DIMENSIONS														NO. REQD	TOTAL WT.
	a	b	c	d	e	f	g	h	j	k	m	n	p			
EA062407	24'-7"														16	591

MISCELLANEOUS QUANTITIES

ITEM	QUANTITY	UNIT
MOBILIZATION, MAX	1	LS
HMA SURFACE, REM	833	SYD
DECK JOINT, REM	82	FT
BRIDGE CLEANING (STR 5725)	1	LS
HMA, 4EL	26	TON
HMA, 5EL	69	TON
CONC SURFACE COATING	417	SYD
SUBSTRUCTURE HORIZONTAL SURFACE SEALER	34	SYD
EXPANSION JOINT DEVICE	82	FT
* PATCH, FORMING	446	SFT
* HAND CHIPPING, OTHER THAN DECK	149	CFT
* PATCHING CONC, C-L	6	CYD
EMBEDDED GALVANIC ANODE	1530	EA
**** STRUCTURAL CRACK, REPR	190	FT
MEMBRANE, PREFORMED WATERPROOFING	5538	SFT
*** CONC, SILICA FUME MODIFIED	8	CYD
** REINFORCEMENT, STEEL EPOXY COATED	691	LB
**** EROSION CONTROL, SILT FENCE	150	FT

MISCELLANEOUS QUANTITIES, CONT.

ITEM	QUANTITY	UNIT
MINOR TRAF DEVICES	1	LS
PLASTIC DRUM, FLUORESCENT, FURN	13	EA
PLASTIC DRUM, FLUORESCENT, OPER	13	EA
SIGN, TYPE B, TEMP, PRISMATIC, FURN	133	SFT
SIGN, TYPE B, TEMP, PRISMATIC, OPER	133	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPEC, OPER	108	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPEC, FURN	108	SFT
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN	7	EA
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER	7	EA
SIGN COVER	1	EA

HMA APPLICATION ESTIMATE				
INDENT NO	ITEM	RATE: LBS PER SYD	PERFORMANCE GRADE	REMARKS
1	5EL	165	PG 70-22P	WEARING COURSE
2	4EL	220	PG 70-22P	LEVELING COURSE
	* BOND COAT	0.05-0.10 GAL		

- \* FOR SUBSTRUCTURE REPAIRS & RAILING REPAIR
- \*\* 591 LB FOR PROPOSED TRANSVERSE DECK REINFORCEMENT TOP&BOTT  
100 LB FOR REINFORCEMENT REPAIR AS DIRECTED BY ENGINEER.
- \*\*\* FOR DECK AND RAILING PATCHING
- \*\*\*\* AS DIRECTED BY ENGINEER

\* PATCHING, CONC, C-L FOR SUBSTRUCTURE REPAIRS.  
CONC, SILICA FUME MODIFIED FOR DECK AND RAILING PATCHING.

EXISTING REINFORCEMENT THAT IS CORRODED AND/OR DAMAGED SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. AN ALLOTMENT OF REINFORCEMENT HAS BEEN PROVIDED FOR SUCH CASES.

PROJECT MANAGER: LEON SOLOWOW, PE  
C:\PW\_MORRIS\141492716\IGN-PLTS-QUANTITIES-RUSSELL ROAD.DWG - 3 - PLOTTED 8/6/2024 7:41 AM BY: SPENCE, AMANDA

REV#	DATE	DESCRIPTION	BY

25251 Northline Rd.  
Waukegan, IL 60087  
724.817.2700  
www.wadetrim.com

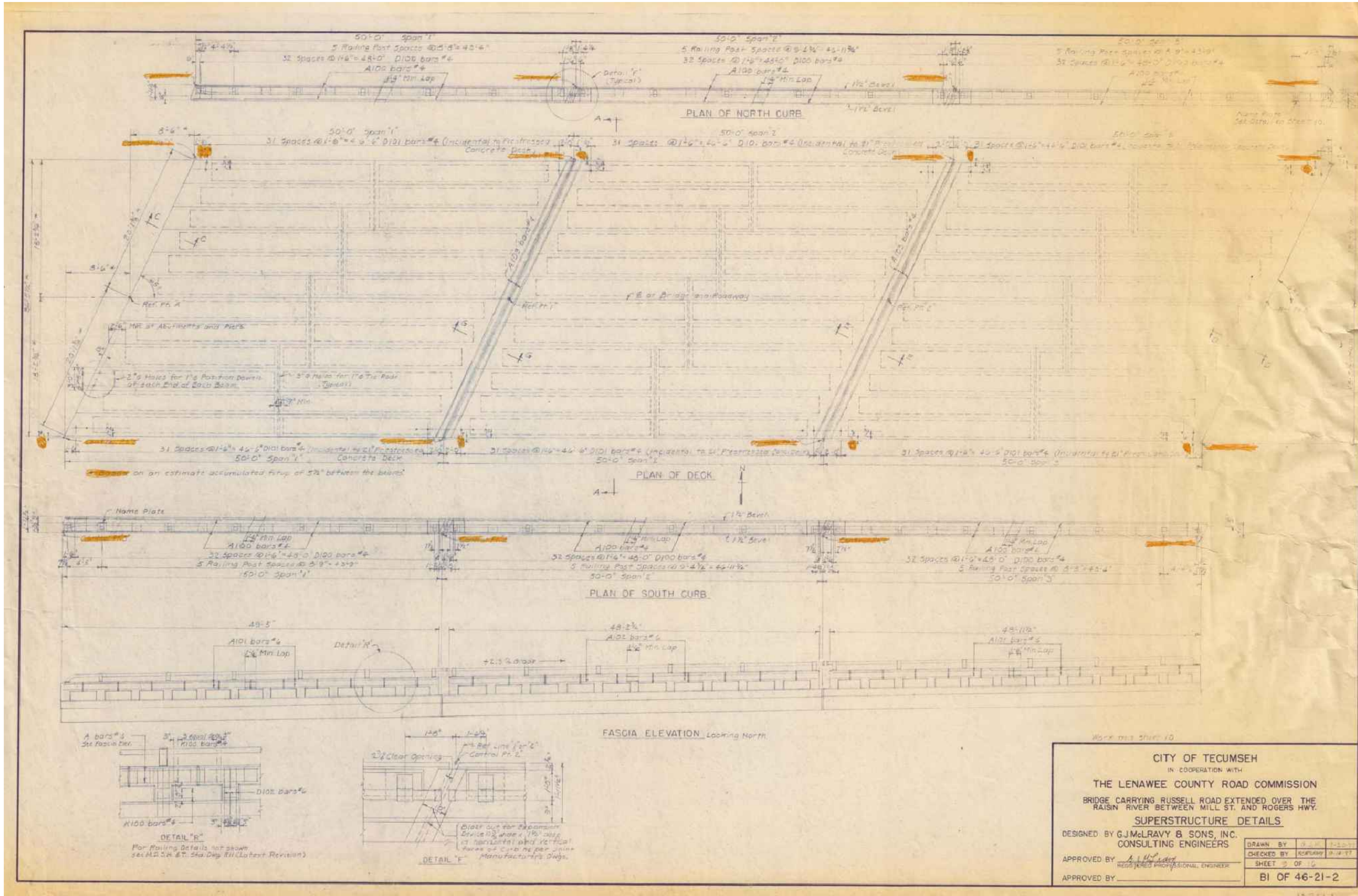
CITY OF TECUMSEH  
DEPARTMENT OF PUBLIC WORKS  
EAST RUSSELL ROAD OVER RIVER RAISIN  
NOTES AND QUANTITIES

ISSUED FOR: DATE: BY:

JOB NO.  
TEC2064-01T


SHEET  
3

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		DESCRIPTION
		DATE
		REV#
		BY



2524 Northern Rd.  
 724.977.9700  
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**CITY OF TECUMSEH**  
**DEPARTMENT OF PUBLIC WORKS**  
 EAST RUSSEL ROAD OVER RIVER RAISIN  
 EXISTING PLAN OF DECK

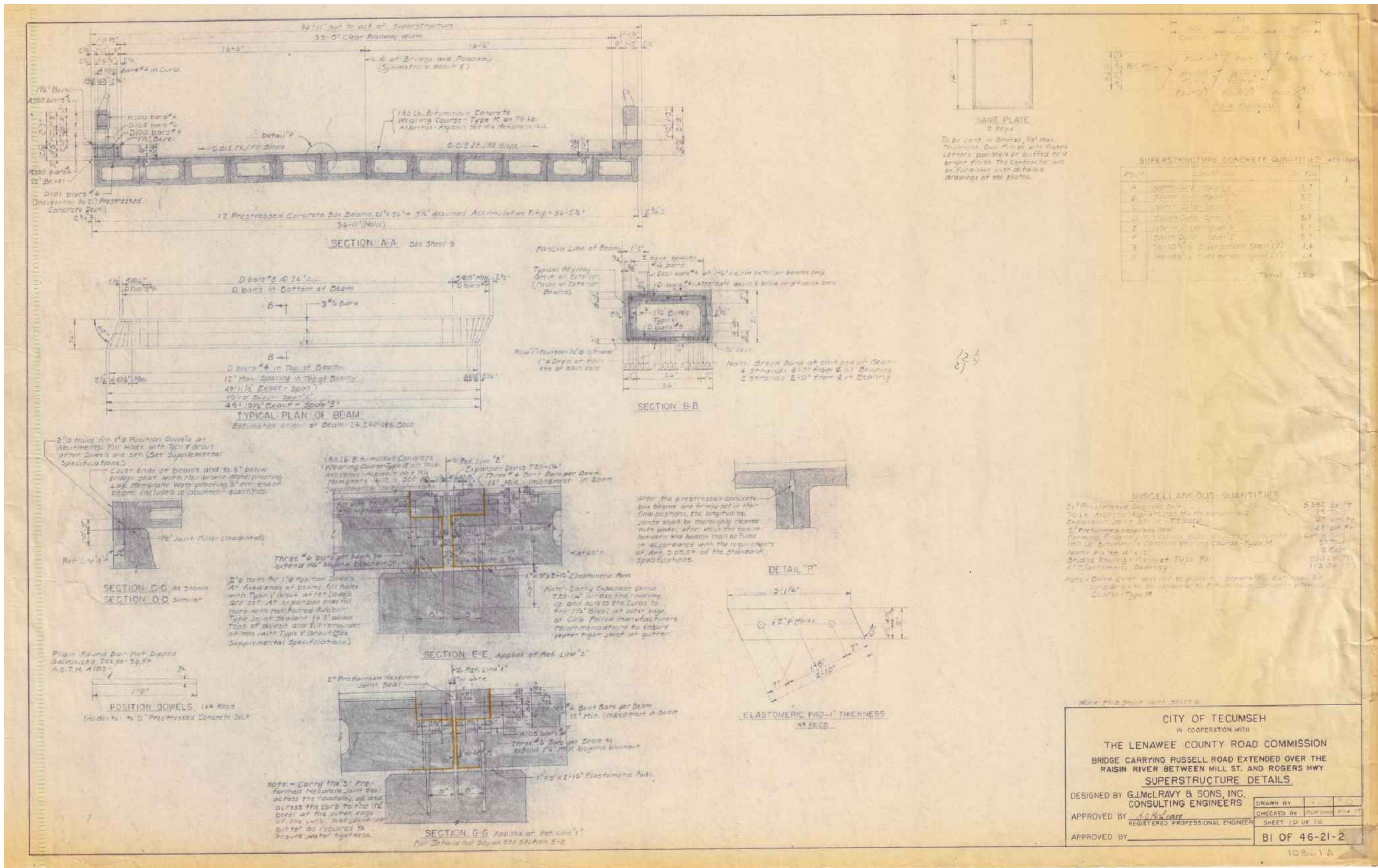
ISSUED FOR: DATE: BY:

JOB NO.  
**TEC2064-01T**

SHEET  
**4**

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PROJECT MANAGER: LEON SOLOWOW, PE  
 C:\PW\_WORK\211492716\_VSP-PLT-EAST RUSSELL.DWG - 5 - PLOTTED: 6/7/2024 7:41 AM BY: SPENCE, AMANDA



NO.	DESCRIPTION	AMOUNT
1	180 lb. Bituminous Concrete	1.7
2	180 lb. Bituminous Concrete Wearing Course	2.7
3	180 lb. Bituminous Concrete	1.7
4	180 lb. Bituminous Concrete	1.7
5	180 lb. Bituminous Concrete	1.4
6	180 lb. Bituminous Concrete	1.4
TOTAL		10.6

NO.	DESCRIPTION	AMOUNT
1	2" Preformed Aggregate	5.800 sq. ft.
2	180 lb. Bituminous Concrete	1.7
3	180 lb. Bituminous Concrete	1.7
4	180 lb. Bituminous Concrete	1.7
5	180 lb. Bituminous Concrete	1.7
6	180 lb. Bituminous Concrete	1.7
7	180 lb. Bituminous Concrete	1.7
8	180 lb. Bituminous Concrete	1.7
9	180 lb. Bituminous Concrete	1.7
10	180 lb. Bituminous Concrete	1.7
11	180 lb. Bituminous Concrete	1.7
12	180 lb. Bituminous Concrete	1.7
13	180 lb. Bituminous Concrete	1.7
14	180 lb. Bituminous Concrete	1.7
15	180 lb. Bituminous Concrete	1.7
16	180 lb. Bituminous Concrete	1.7
17	180 lb. Bituminous Concrete	1.7
18	180 lb. Bituminous Concrete	1.7
19	180 lb. Bituminous Concrete	1.7
20	180 lb. Bituminous Concrete	1.7
21	180 lb. Bituminous Concrete	1.7
22	180 lb. Bituminous Concrete	1.7
23	180 lb. Bituminous Concrete	1.7
24	180 lb. Bituminous Concrete	1.7
25	180 lb. Bituminous Concrete	1.7
26	180 lb. Bituminous Concrete	1.7
27	180 lb. Bituminous Concrete	1.7
28	180 lb. Bituminous Concrete	1.7
29	180 lb. Bituminous Concrete	1.7
30	180 lb. Bituminous Concrete	1.7
31	180 lb. Bituminous Concrete	1.7
32	180 lb. Bituminous Concrete	1.7
33	180 lb. Bituminous Concrete	1.7
34	180 lb. Bituminous Concrete	1.7
35	180 lb. Bituminous Concrete	1.7
36	180 lb. Bituminous Concrete	1.7
37	180 lb. Bituminous Concrete	1.7
38	180 lb. Bituminous Concrete	1.7
39	180 lb. Bituminous Concrete	1.7
40	180 lb. Bituminous Concrete	1.7
41	180 lb. Bituminous Concrete	1.7
42	180 lb. Bituminous Concrete	1.7
43	180 lb. Bituminous Concrete	1.7
44	180 lb. Bituminous Concrete	1.7
45	180 lb. Bituminous Concrete	1.7
46	180 lb. Bituminous Concrete	1.7
47	180 lb. Bituminous Concrete	1.7
48	180 lb. Bituminous Concrete	1.7
49	180 lb. Bituminous Concrete	1.7
50	180 lb. Bituminous Concrete	1.7

Work this sheet with sheets 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.

**CITY OF TECUMSEH**  
 IN COOPERATION WITH  
**THE LENAWEE COUNTY ROAD COMMISSION**  
 BRIDGE CARRYING RUSSELL ROAD EXTENDED OVER THE  
 RAISIN RIVER BETWEEN MILL ST. AND ROGERS HWY.  
**SUPERSTRUCTURE DETAILS**

DESIGNED BY **G.J. McCLAVY & SONS, INC.**  
 CONSULTING ENGINEERS

APPROVED BY **G.J. McClavy**  
 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY \_\_\_\_\_

DRAWN BY	_____
CHECKED BY	_____
SHEET	12 OF 16


**BI OF 46-21-2**

10561A

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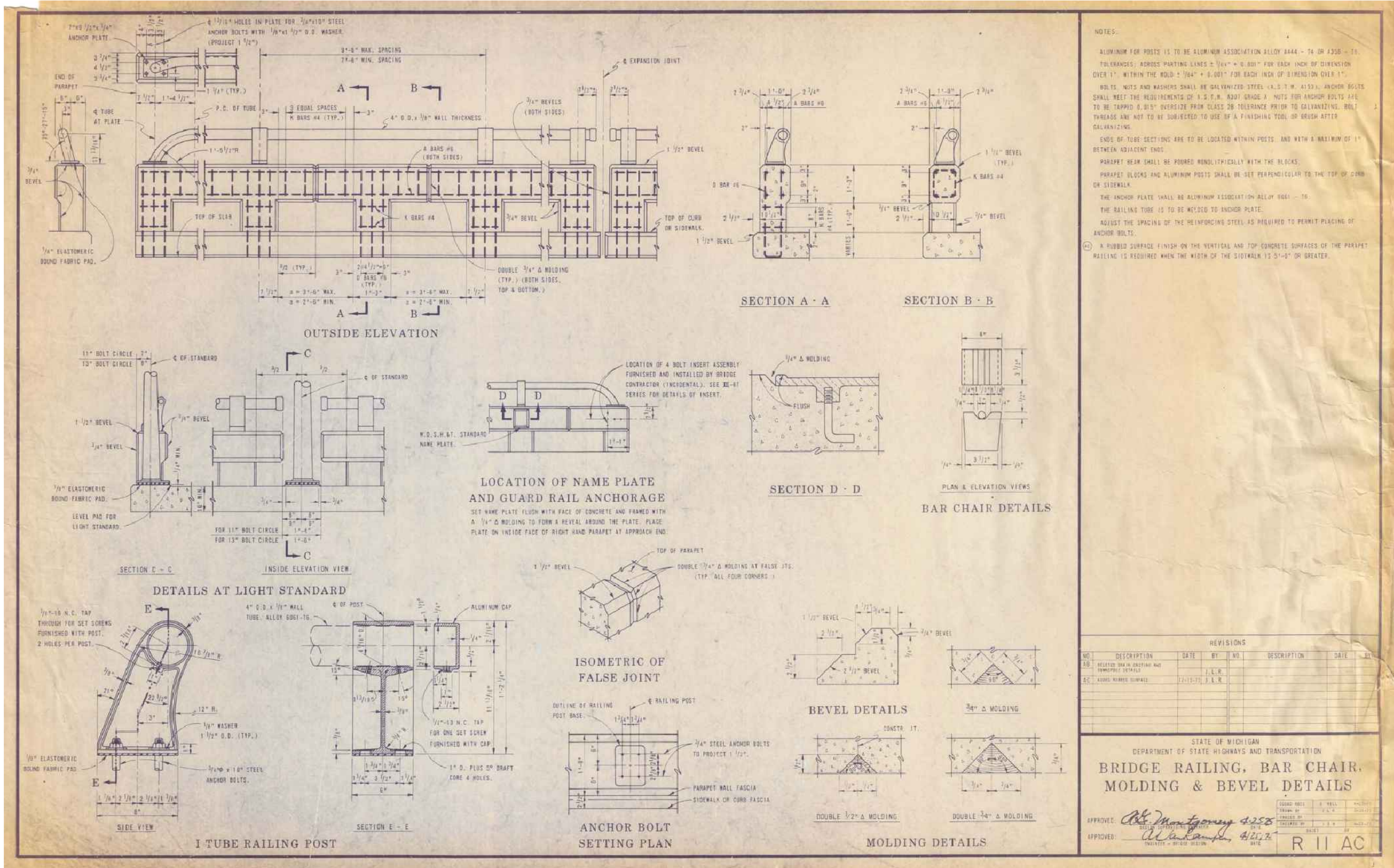
**CITY OF TECUMSEH**  
**DEPARTMENT OF PUBLIC WORKS**

EAST RUSSEL ROAD OVER RIVER RAISIN  
 EXISTING SECTION

JOB NO.  
**TEC2064-01T**

SHEET  
**5**

TECUMSEH BRIDGE RETIAR



REVISIONS					
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION
AB	SELECTED ONE IN EXISTING AND REMOVED DETAILS		J. L. R.		
AC	ADDED NUMBER SIDEWALK	12-13-75	J. L. R.		

STATE OF MICHIGAN  
 DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

**BRIDGE RAILING, BAR CHAIR, MOLDING & BEVEL DETAILS**

APPROVED: *Robert Montgomery* 4/25/76  
 APPROVED: *William J. ...* 4/25/76  
 DATE: 4/25/76

R 11 AC

EXISTING

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CITY OF TECUMSEH  
 DEPARTMENT OF PUBLIC WORKS

EAST RUSSEL ROAD OVER RIVER RAISIN  
 EXISTING BARRIER PLANS

ISSUED FOR: DATE: BY:

JOB NO. TEC2064-01T

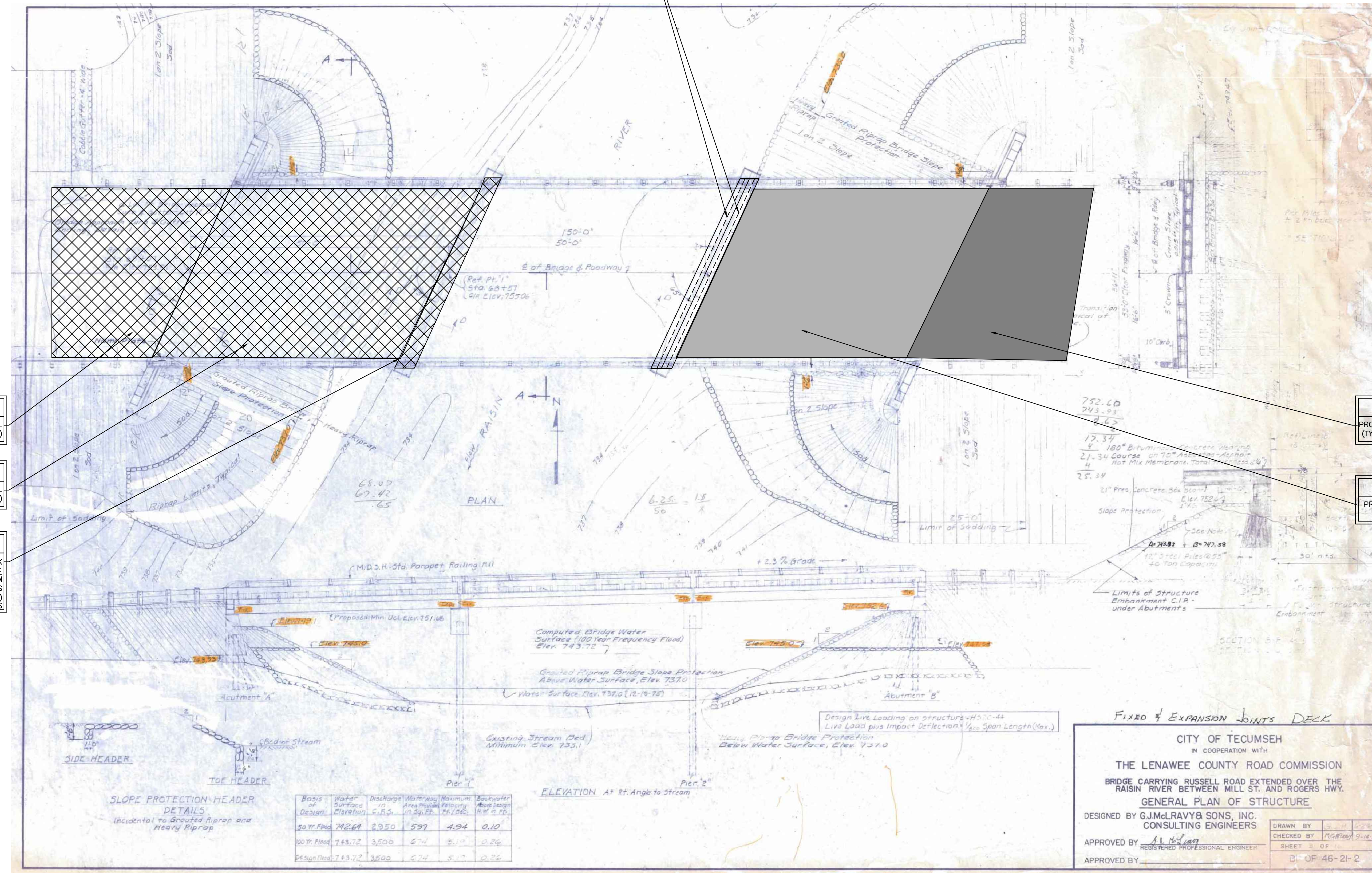
SHEET 6

REV#	DATE	DESCRIPTION

25251 Northern Rd.  
 734.947.8000  
 www.wadetek.com

**WADE TRIM**

E. RUSSEL/RAISIN RIVER (SN 5725)  
 NEW JOINT, PAID FOR AS EXPANSION JOINT DEVICE, TYP 2 LOCATIONS  
 EA062407 TOP&BOTT (2 LENGTHS) EACH SIDE OF JOINT  
 TYPICAL 2 JOINTS



E. RUSSEL/RAISIN RIVER (SN 5725)  
 HMA SURFACE REMOVAL (TYP BOTH APPROACHES)

E. RUSSEL/RAISIN RIVER (SN 5725)  
 HMA SURFACE REMOVAL (TYP ALL SPANS)

E. RUSSEL/RAISIN RIVER (SN 5725)  
 REMOVE EXISTING DECK 1'-6" EACH FROM JT @ MEASURED FROM BOTTOM OF DECK (PAID FOR AS DECK JOINT, REM) TYPICAL 2 LOCATIONS

E. RUSSEL/RAISIN RIVER (SN 5725)  
 PROPOSED HMA PAVEMENT (TYP BOTH APPROACHES)

E. RUSSEL/RAISIN RIVER (SN 5725)  
 PROPOSED HMA OVERLAY (TYP ALL SPANS)

**FIXED & EXPANSION JOINTS DECK**

CITY OF TECUMSEH  
 IN COOPERATION WITH  
 THE LENAWEE COUNTY ROAD COMMISSION  
 BRIDGE CARRYING RUSSELL ROAD EXTENDED OVER THE RAISIN RIVER BETWEEN MILL ST. AND ROGERS HWY.  
 GENERAL PLAN OF STRUCTURE

DESIGNED BY G.J.McLAVY & SONS, INC. CONSULTING ENGINEERS  
 APPROVED BY *A.J. McLean* REGISTERED PROFESSIONAL ENGINEER  
 APPROVED BY \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 SHEET 3 OF 11  
 DATE OF 46-21-2

E. RUSSEL/RAISIN RIVER (SN 5725)  
 THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY THE LEGEND BOX BELOW, LABELED WITH THIS PROJECTS JOB NUMBER.  
 PROPOSED WORK  
 DENOTES REMOVAL PORTIONS

WADE TRIM  
 25251 Northern Rd.  
 734.917.9700  
 www.wadetrims.com

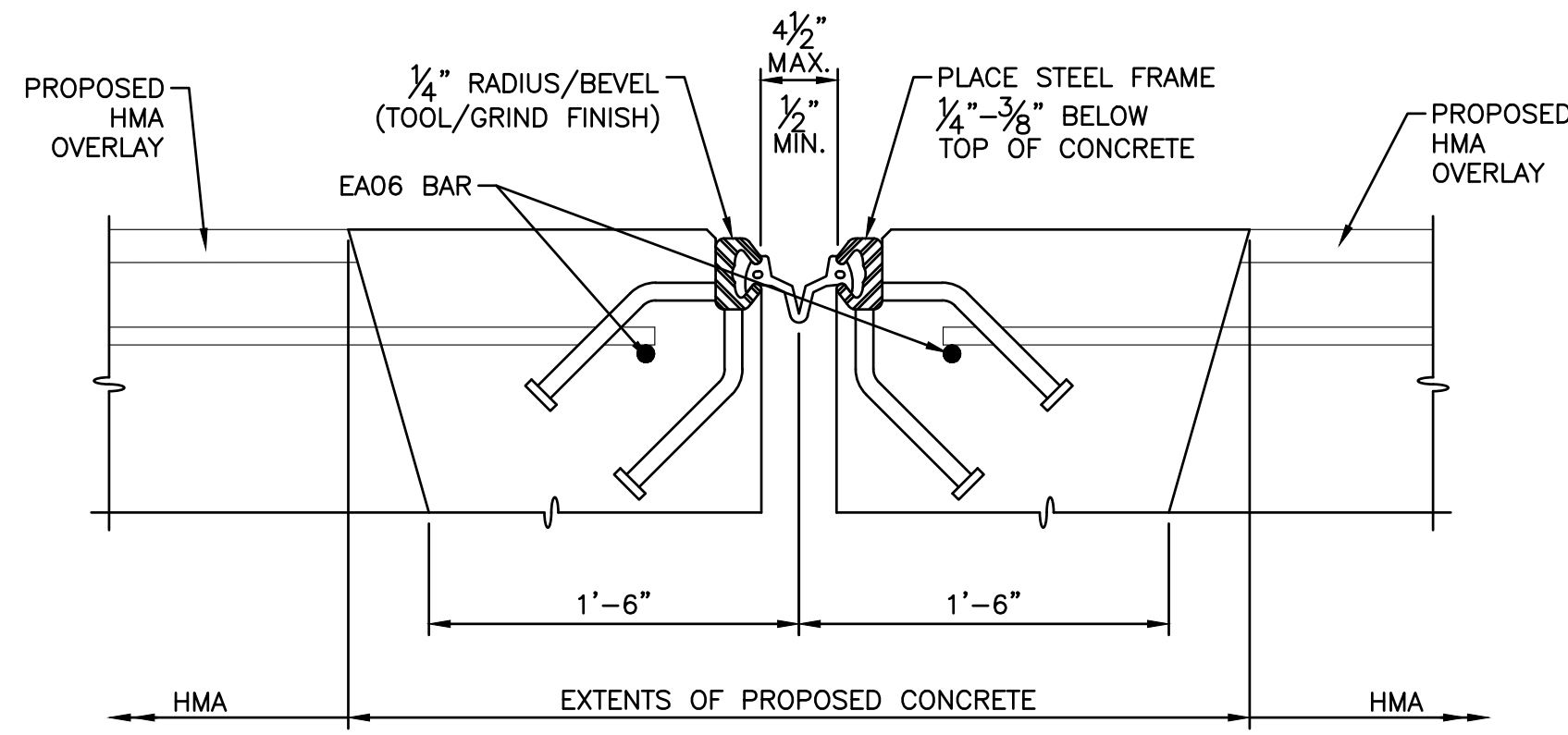
CITY OF TECUMSEH  
 DEPARTMENT OF PUBLIC WORKS  
 EAST RUSSEL ROAD OVER RIVER RAISIN  
 PROPOSED PLAN

ISSUED FOR: DATE: BY:  
 JOB NO. TEC2064-01T  
 SHEET 7

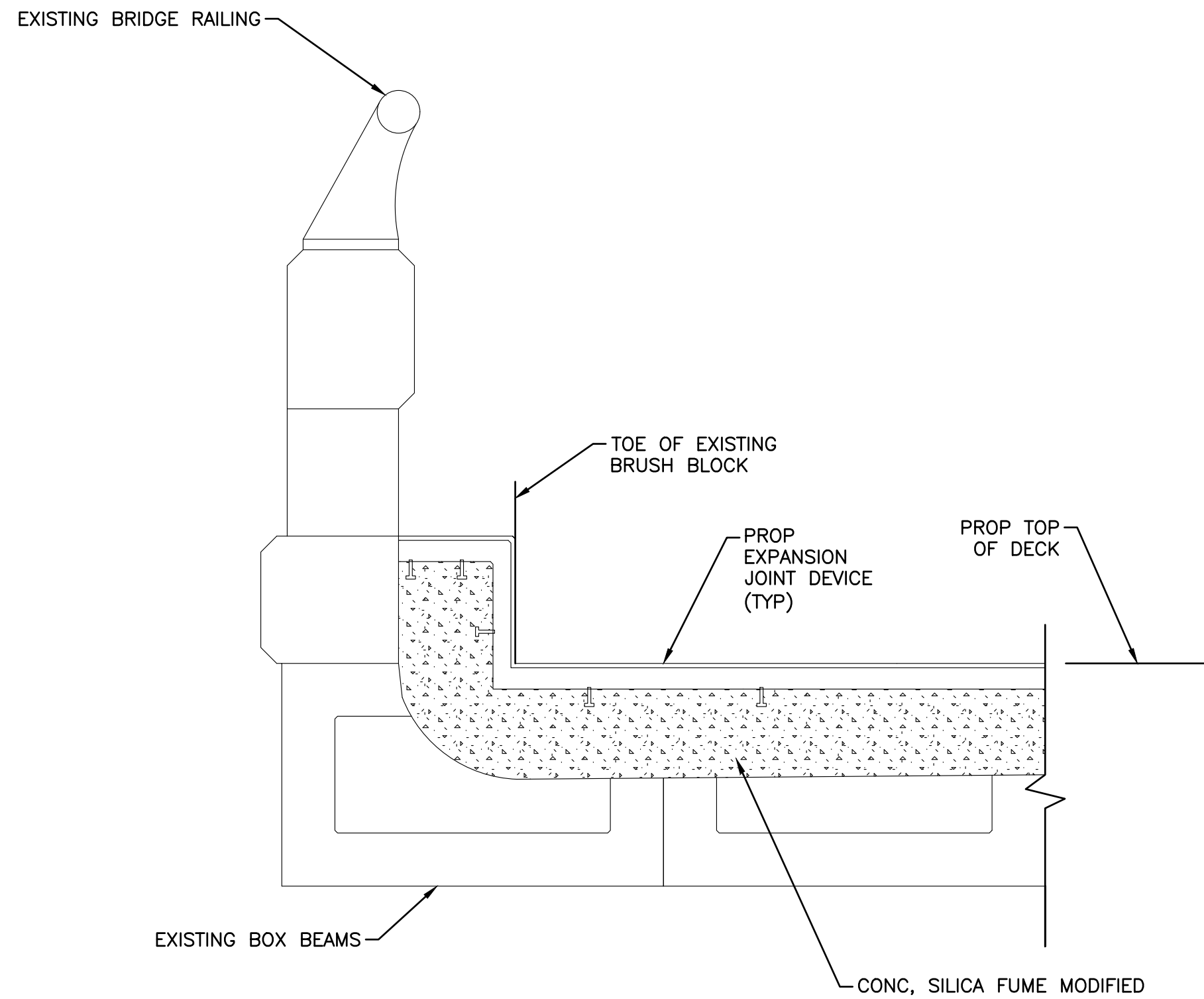
ISSUED FOR: DATE: BY:  
 REV# DATE DESCRIPTION

TECUMSEH BRIDGE RETIAR

PROJECT MANAGER: LEON SOLOWOW, PE  
 C:\PW\_WORK\20140227\6\_VSP-PLS-EAST RUSSEL.DWG - 7 - PLOTTED 6/6/2024 7:41 AM BY: SPENCE, AMANDA  
 FIELD BOOK INFORMATION: -



SECTION THROUGH EXPANSION JOINT



SECTION THROUGH BARRIER AT PROP EXPANSION JOINT DEVICE

**NOTES:**

**JOINT TYPES**

THE EXPANSION JOINT DEVICE SHALL BE OF A TYPE THAT INCLUDES A CONTINUOUS NEOPRENE (OR EQUIVALENT) SEAL ACROSS THE DECK. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR HAS THE OPTION OF USING ANY OF THE DEVICES LISTED BELOW:

**DEVICE**

- WABO STRIP SEAL - TYPE M ..... WATSON-BOWMAN & ACME, INC.
- WABO STRIP SEAL - TYPE A ..... WATSON-BOWMAN & ACME, INC.
- STEELFLEX-SSA2 ..... D.S. BROWN
- STEELFLEX-SSCM ..... D.S. BROWN
- ONFLEX 40 SS ..... STRUCTURAL RUBBER PRODUCTS CO.
- ONFLEX 40 SSA ..... STRUCTURAL RUBBER PRODUCTS CO.

THE MODEL OF THE JOINT TYPE SELECTED SHALL BE SUITABLE TO ACCOMMODATE THE TOTAL MOVEMENT NOTED ON THE PLANS.

COMPLETE WORKING DRAWINGS OF ALL DETAILS OF FABRICATION OF THE EXPANSION JOINT DEVICE SHALL BE SUBMITTED FOR REVIEW IN ACCORDANCE WITH STANDARD SPECIFICATION 104.02.

**FABRICATION AND INSTALLATION**

REMOVE SHIPPING BOLTS PRIOR TO PLACEMENT OF CONCRETE.

THE EXPANSION JOINT SHALL BE SHOP FABRICATED TO CONFORM TO THE CONTOUR OF THE APPROACH SLAB AND SLEEPER SLAB. IT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SUBJECT TO NOTES HEREIN AND THE APPROVAL OF THE ENGINEER.

WHEN EXPANSION JOINT DEVICE IS CONTINUOUS ON EACH SIDE OF AN OBSTRUCTION SUCH AS THE END OF A BRIDGE RAILING, CONCRETE CURBS, BRUSH BLOCKS, PARAPETS OR END WALLS, THE END OF THE OBSTRUCTION SHALL BE OFFSET PER MANUFACTURER'S SPECIFICATIONS FROM EXPANSION JOINT DEVICE TO NOT INTERFERE WITH INSTALLATION AND MAINTENANCE.

TIE SLAB REINFORCING STEEL TO STEEL FRAME ANCHORS TO MAXIMUM EXTENT PRACTICABLE WITHOUT DAMAGING GALVANIZED OR EPOXY COATINGS.

THE TOP OF THE EXPANSION JOINT DEVICE SHALL BE SET 1/4" - 3/8" BELOW THE CONCRETE SLAB (PAVEMENT).

THE STEEL ANCHORAGE FOR STRIP SEAL GLANDS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 707.03C.17 OF THE STANDARD SPECIFICATIONS.

THE AREA OF THE STEEL ANCHORAGE AND SEALING GLAND WHICH WILL BE IN CONTACT WITH A SEALANT, OR LUBRICANT-ADHESIVE SHALL BE CLEANED WITH TOLUENE OR OTHER APPROVED SOLVENT.

IN THE EVENT THAT SPLICING IS REQUIRED OF THE SEALING GLAND, IT SHALL BE SPLICED BY AN APPROVED METHOD (SUCH AS COLD VULCANIZATION) BY A TRAINED REPRESENTATIVE OF THE MANUFACTURER.

**DETAILS AT CURBS OR BARRIERS**

END OF EXPANSION JOINT SHALL TERMINATE AT SIDES OR EDGES OF SLABS PER MANUFACTURER'S SPECIFICATIONS.

**MATERIALS**

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF THE EXPANSION JOINT DEVICE AND END PLATE ASSEMBLIES AT THE APPROACH SLAB EDGE IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE.

STRUCTURE NUMBER	ANGLE OF CROSSING TO NEAREST 10'	LOCATION OF JOINT	MIN. TOT. TRAVEL ALONG CENTERLINE OF BRIDGE *	REQUIRED LENGTH OF EXPANSION JOINT DEVICE
5725	70°	PIER 1	1.25"	40'-9"
5725	70°	PIER 2	1.25"	40'-9"

WABO STRIP SEAL TYPE M			
TOTAL TRAVEL *	PLATE WIDTH	Y	Z
< 1"	10"	3 3/4"	5 3/4"
1" - 2"	11"	3 3/4"	6 3/4"
2" - 3"	12"	3 3/4"	7 3/4"
> 3"	13"	3 3/4"	8 3/4"

ALL OTHER DEVICES			
TOTAL TRAVEL *	PLATE WIDTH	Y	Z
< 1 1/2"	8"	2 1/2"	5"
1 1/2" - 3 1/2"	10"	2 1/2"	7"
> 3 1/2"	12"	2 1/2"	9"

\* SEE TABLE FOR MINIMUM TOTAL TRAVEL ALONG CENTERLINE OF BRIDGE

REV#	DATE	DESCRIPTION	BY

2520 Northline Rd.  
Wade Trim, Inc.  
724.947.9700  
www.wadetrिम.com

CITY OF TECUMSEH  
DEPARTMENT OF PUBLIC WORKS  
  
EAST RUSSELL ROAD OVER RIVER RAISIN  
EXPANSION JOINT DETAILS

ISSUED FOR: DATE: BY:

JOB NO.  
TEC2064-01T

SHEET  
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