TRU-11-0390

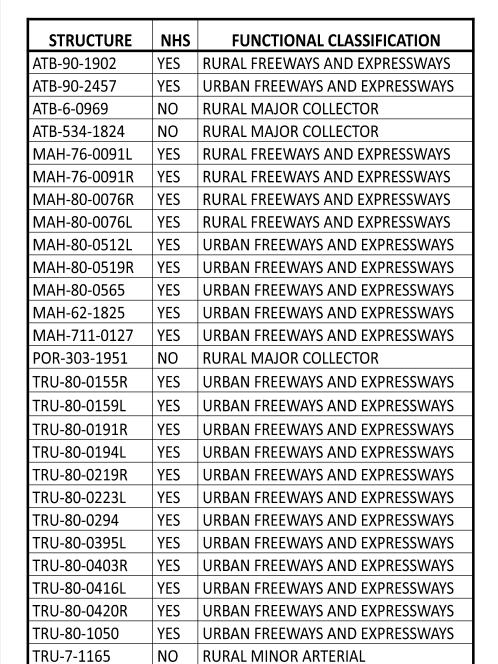
I-FY202 -BH

SEE PAGE 2-4 FOR LOCATION MAP

## **LOCATION MAP**

N

LATITUDE: 41°00'57" LONGITUDE: 81°29'30"





YES URBAN FREEWAYS AND EXPRESSWAYS YES URBAN FREEWAYS AND EXPRESSWAYS YES URBAN FREEWAYS AND EXPRESSWAYS YES URBAN FREEWAYS AND EXPRESSWAYS



TRU-534-0411 NO URBAN MAJOR COLLECTOR

OHIO811, 8-1-1, or 1-800-362-2764 (Non members must be called directly)

PLAN PREPARED BY: ODOT DISTRICT 4, CAPITAL PLANNING 2088 S. ARLINGTON ROAD AKRON, OHIO 44306

## STATE OF OHIO DEPARTMENT OF TRANSPORTATION

# D04-BH-FY2024 (EAST)

CITY OF CONNEAUT AND ROAMING SHORES KINGSVILLE AND HARPERSFIELD TOWNSHIP ASHTABULA COUNTY

CITY OF YOUNGSTOWN AUSTINTOWN AND JACKSON TOWNSHIP MAHONING COUNTY

> WINDHAM TOWNSHIP PORTAGE COUNTY

CITY OF GIRARD AND NEWTON FALLS HUBBARD AND LIBERTY TOWNSHIP TRUMBULL COUNTY

#### **INDEX OF SHEETS:**

TITLE SHEET	P.1	PAVEMENT MARKINGS	P.10-12
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GENERAL NOTES	P.5	STRUCTURES	P.16-34
MAINTENANCE OF TRAFFIC	P.6-7	RIGHT OF WAY	RW 1-3
GENERAL SUMMARY	P.8-9		

CLIDDI EMENITAL

CDECIAI

STANDARD CONSTRUCTION DRAWINGS			SPECIFICATIONS	PROVISIONS				
DM-4.3	1/15/16	TC-21.11	7/16/21			800-2023 7/21/23	ASBESTOS REPORT 6/23/23	
DM-4.4	1/15/16	TC-21.21	1/20/23			821 4/20/12		
		TC-41.10	7/19/13			832 7/21/23		
MT-95.30	7/19/19	TC-41.20	10/18/13			843 10/18/19		
MT-95.31	7/19/19	TC-42.10	10/18/13			844 4/20/18		H
MT-95.32	4/19/19	TC-42.20	10/18/13			848 1/15/21		
MT-95.50	7/21/17	TC-52.10	10/18/13			921 4/20/12		
MT-97.10	4/19/19	TC-52.20	1/15/21					
MT-98.10	1/17/20	TC-71.10	4/21/23					
MT-98.11	1/17/20							
MT-98.20	4/19/19							
MT-99.30	1/17/20							
MT-102.20	4/19/19							
MT-105.10	1/17/20							

#### FEDERAL PROJECT NUMBER

E230(275)

#### RAILROAD INVOLVEMENT

NONE

#### PROJECT DESCRIPTION

BRIDGE MAINTENANCE ON STRUCTURES LOCATED ON VARIOUS ROUTES WITHIN ASHTABULA, MAHONING, AND TRUMBULL COUNTIES.

### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:

*N/A (MAINTENANCE ONLY) N/A (MAINTENANCE ONLY) N/A (MAINTENANCE ONLY)* 

#### LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

#### **2023 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

**DISTRICT DEPUTY DIRECTOR** 

Arthur G. Noirot Jr., P.E.

ENGINEER'S SEAL

**ANDRASIK** E-80194

DIRECTOR, DEPARTMENT OF TRANSPORTATION

ESIGN AGENCY



ESIGNER MJA 12-06-23

ROJECT ID 107246

P.1 P.34

SHEET NUM. PART. **GRAND** SEE ITEM DESCRIPTION UNIT SHEET TOTAL EXT 01/IMS/40 05/S5K/47 02/IMS/47 03/NHS/47 04/S>2/47 07/IMS/13 ROADWAY LS LS **SPECIAL** 69091000 AS-BUILT CONSTRUCTION PLANS 5 LS **EROSION CONTROL** 1,000 1,000 **I EROSION CONTROL** 1,000 1,000 832 30000 5,000 **EACH** 1,000 TRAFFIC CONTROL 00102 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) 30 626 78 EACH BARRIER REFLECTOR, TYPE 1 (ONE-WAY) 48 232 184 00102 BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL) 136 12 12 136 **EACH** 00110 BARRIER REFLECTOR, TYPE 2 (ONE-WAY) 00110 216 186 EACH 412 1,088 02100 1,493 GROUND MOUNTED SUPPORT, NO. 2 POST 522 324 22 630 FT 31 630 FT GROUND MOUNTED SUPPORT, NO. 3 POST 31 03100 31 BREAKAWAY STRUCTURAL BEAM CONNECTION 09000 **EACH** 630 80100 SIGN, FLAT SHEET 126 264 630 354 SIGN. FLAT SHEET. 730.20 24 85 29 80100 SF GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION 2 84500 **EACH** 50 40 96 32 2 630 84900 136 **EACH** REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL **SUMMARY** 630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION 85100 **EACH** 85600 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL 50 96 32 2 630 86002 138 EACH 630 86250 EACH REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND REERECTION 2.74 0.65 3 646 10010 MILE EDGE LINE, 6" 1.61 ENERAL 1.33 1.11 MILE LANE LINE, 6" 1.62 10110 2.44 80.0 0.15 0.05 10200 0.65 CENTER LINE 0.37 0.27 2,100 910 910 10310 3,400 CHANNELIZING LINE, 12" 2,490 646 20300 **EACH** LANE ARROW 16 16 194 973 DOTTED LINE, 6" 1,167 20504 1,167 FT STRUCTURE REPAIRS FOR ATB-534-1824 ESTIMATED QUANTITIES FOR ATB-6-0969 ESTIMATED QUANTITIES FOR ATB-90-1902 ESTIMATED QUANTITIES FOR ATB-90-2457 ESTIMATED QUANTITIES 19 FOR MAH-62-1825 ESTIMATED QUANTITIES FOR MAH-711-0127 ESTIMATED QUANTITIES 19 FOR MAH-76-0091L ESTIMATED QUANTITIES FOR MAH-76-0091R ESTIMATED QUANTITIES 19 FOR MAH-80-0076L ESTIMATED QUANTITIES FOR MAH-80-0076R ESTIMATED QUANTITIES 19 FOR MAH-80-0512L ESTIMATED QUANTITIES FOR MAH-80-0519R ESTIMATED QUANTITIES 19 FOR MAH-80-0565 ESTIMATED QUANTITIES 19 FOR POR-303-1951 ESTIMATED QUANTITIES FOR TRU-11-0390 ESTIMATED QUANTITIES 20 FOR TRU-11-0622 ESTIMATED QUANTITIES 20 FOR TRU-11-0704 ESTIMATED QUANTITIES FOR TRU-11-1018 ESTIMATED QUANTITIES FOR TRU-534-0411 ESTIMATED QUANTITIES ESIGN AGENCY FOR TRU-7-1165 ESTIMATED QUANTITIES 20 FOR TRU-80-0155R ESTIMATED QUANTITIES FOR TRU-80-0159L ESTIMATED QUANTITIES FOR TRU-80-01905R ESTIMATED QUANTITIES 4 FOR TRU-80-0191R ESTIMATED QUANTITIES 20 202 FOR TRU-80-0194L ESTIMATED QUANTITIES 20 FOR TRU-80-0219R ESTIMATED QUANTITIES 20 D04-BH FOR TRU-80-0223L ESTIMATED QUANTITIES MJA 12-06-23 FOR TRU-80-0294 ESTIMATED QUANTITIES 20 20 FOR TRU-80-0395L ESTIMATED QUANTITIES 107246 FOR TRU-80-0403R ESTIMATED QUANTITIES P.8 P.34

HEET	20	7	
SEE SHEE	NO. 20 20 20	7	
		NCE	
DESCRIPTION	U-80-0416L ESTIMATED QUANTITIES U-80-0420R ESTIMATED QUANTITIES U-80-1050 ESTIMATED QUANTITIES	MAINTENANCE OF TRAFFIC  IFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE  ZONE MARKING SIGN  BLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	INCIDENTALS  INING TRAFFIC  OFFICE, TYPE B  RUCTION LAYOUT STAKES AND SURVEYING  ZATION
	FOI	WC	FIE CO
UNIT		EACH	MNTH
GRAND	TOTAL	300 20 30	LS 9 LS LS
ITEM	EXT	11110 12460 18601	11000 16010 10000 10000
ITEM	07/IMS/13	614 614 614	614 619 623 624
	05/S5K/47 06/STR/47	10 20 2 2 2 2	
PART.	04/5>2/47	20 2 2	
1 1	U3/NH5/47	40 4 6	
	02/IMS/47	150 8 16	
	01/IMS/40	60 2 2	LS 9 LS LS
<b>—</b>	15		
T	14		
l	13		
1	12		
HEET NU	11		
	10		
7	7	30	
T .	0	300	

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS.

CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

STEEL RESTRAINT OR PRELOAD LIMITS: EXISTING ASTM A709
GRADE 50W OR A709 GRADE 50 - DO NOT SUBJECT ANY PART OF THE
STRUCTURE TO A JACKING, PULLING OR RESTRAINING UNIT STRESS
EXCEEDING 25,000 PSI (172.4 MPA)\*

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (MAIN MEMBERS): AN ESTIMATED QUANTITY FOR EACH LOCATION IS PROVIDED IN TABLE 3, FOR REMOVAL OF PORTIONS OF MAIN MEMBERS AS DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849, DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER. SUPPORT THE EXISTING MAIN MEMBERS ACCORDING TO ITEM 849, STRAIGHTENING WORK PLAN. FLAME OR SAW CUT PORTIONS OF THE EXISTING MEMBERS USING A MECHANICAL GUIDE ACCORDING TO C&MS 513.12. PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE REMAINING CUT SURFACES OF THE EXISTING MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIAL). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE

ABOVE WORK FOR PAYMENT WITH ITEM 202 - PORTIONS OF MAIN

MEMBERS REMOVED, AS PER PLAN: POUND.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS. SUPPLY A COPY OF THE DRAWINGS, STAMPED, SEALED AND DATED, ACCORDING S1002, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN TABLE 2 AND 3. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: POUND.

ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED
MEMBERS, COPE HOLES: AN ESTIMATED QUANTITY FOR EACH
LOCATION IS PROVIDED IN TABLE 3, FOR COPING MAIN MEMBERS AS
DETERMINED BY FIELD INSPECTION ACCORDING TO ITEM 849,
DAMAGE ASSESSMENT OR AS DIRECTED BY THE ENGINEER.
PROVIDE A, 2 INCH DIAMETER X 4 INCH LONG COPE
ACCORDING TO PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.
GRIND THE HOLES SMOOTH ACCORDING TO C&MS 513.19. THE
DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR,
EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE
WORK FOR PAYMENT WITH ITEM 513 -STRUCTURAL STEEL MISC.,
REPAIR OF DAMAGED MEMBERS, COPE HOLES: EACH.

ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN MEMBER, COMPLETE PENETRATION WELDING: AFTER DAMAGED AREAS HAVE BEEN INSPECTED ACCORDING TO ITEM 849 DAMAGE ASSESSMENT. PREPARE THE DAMAGED MATERIAL FOR WELDING, PROVIDE RUNOFF TABS FOR ALL COMPLETE PENETRATION WELDS. PERFORMING COMPLETE PENETRATION WELDS ACCORDING TO C&MS 513 USING APPROVED ELECTRODES, PROCEDURES AND WELDERS. REMOVE RUNOFF TABS AND GRIND THE COMPLETED EDGES SMOOTH. GRIND THE COMPLETED WELDS SMOOTH AND FLUSH WITH THE ADJACENT SURFACES TO PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL. DO NOT OVER GRIND AS TO REDUCE THE MATERIAL THICKNESS OR WIDTH OF THE NEW OR EXISTING MATERIALS. PREPARE ALL REENTRANT CORNERS WITH A ONE INCH RADIUS. REMOVE WELDING, START AND STOP DISCONTINUITIES. RADIOGRAPHIC TEST THE FINISHED WELDS ACCORDING TO C&MS 513.25A AND SUBMIT COPIES OF THE REPORTS TO THE ENGINEER. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT. THE DEPARTMENT WILL INCLUDE ALL MATERIALS; TOOLS; LABOR; EQUIPMENT; AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 -STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN MEMBERS, COMPLETE PENETRATION WELDING. FOOT.

**ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN**: THIS WORK CONSISTS OF RAISING OR RE-POSITIONING
EXISTING STRUCTURES TO THE PERFORM REPAIRS DEFINED IN TABLE 3,
TABLE 5 OR THE HEAT STRAIGHTENING PLAN.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS. OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS NECESSITATED BY THE JACKING OPERATION. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

#### INTERMITTENT COMPLETION

BEAM REPAIRS AT TRU-80-01905R MUST BE COMPLETED BY 6/15/2024.

OFFICE OF STRUCTURAL ENGINEERING

REVISION DATE **01-21-2021** 

PLAN INSERT SHEET - TRU-80-0190
COLLISION REPAIR AND HEAT
STRAIGHTENING NOTES

5

DESIGN AGENCY



DESIGNER

JRF

REVIEWER

MA 12-06-23

PROJECT ID

107246

SUBSET TOTAL

1 3

SHEET TOTAL

P.32 P.34

REVISION DATE **01-21-2021** 

COLLISION REPAIR AND HEAT STRAIGHTENING
ESTIMATED QUANTITIES

DESIGN AGENCY



DESIGNER	
JF	RF
REVII	EWER
MA 1	2-06-23
PROJECT IE	)
107	246
SUBSET	TOTAL
2	3

12/12/2023 CALC: JRF DATE: MA DATE: 12/12/2023 CHECKED:  $\sim$ ESTIMATEDQUANTITIE (07/IMS/13) SEE TOTAL PIERS SUPER. GEN. UNIT ABUT. **EXTENSION** DESCRIPTION SHEET 202 11501 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (MAIN MEMBERS) 10201 STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN 513 631 631 STRUCTURAL STEEL, MISC.:, COPE HOLES 513 95030 EACH STRUCTURAL STEEL, MISC.:, COMPLETE PENETRATION WELDING 513 95000 11 JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN LUMP 47001 516 LS DAMAGE ASSESSMENT LUMP 849 10000 LS

D04-BH-FY2024 (EAST)



CUT LINE

 $\rightarrow$  A

<u></u> A

1'-0" MIN. (TYP.)

DO NOT EXTEND

OF ROLLED BEAM

OPTIONAL TOP COPE

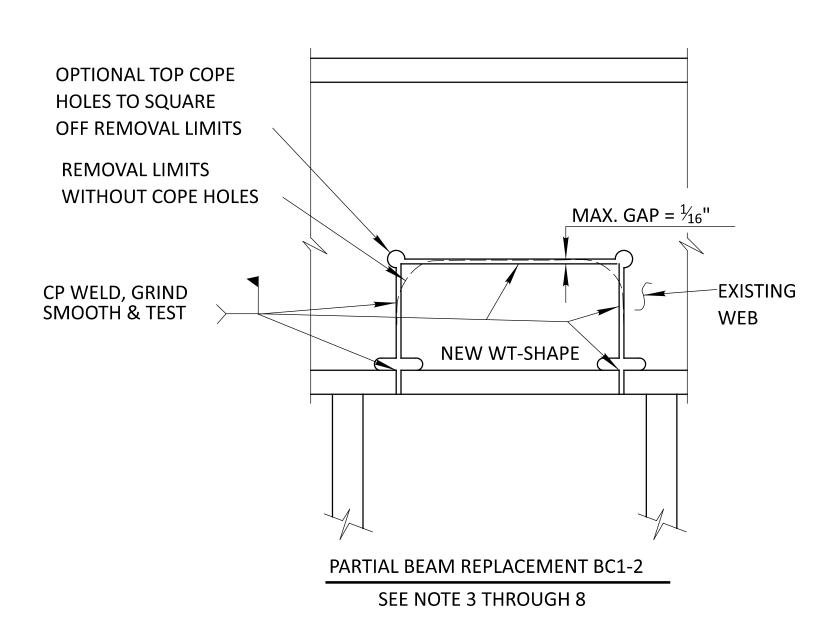
OFF REMOVAL LIMITS

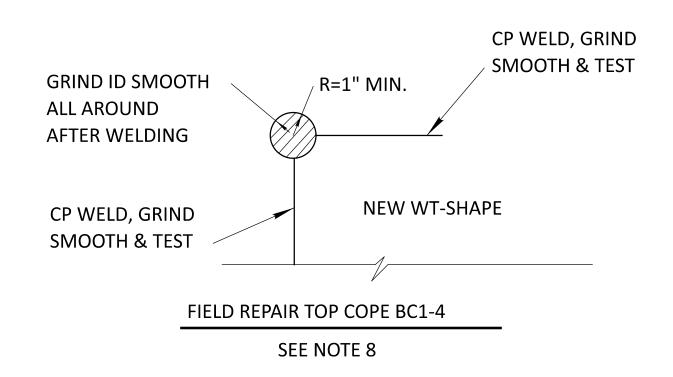
MAXIMUM DEPTH OF CUT =
[DEPTH "d" - FLANGE TO WEB RADIUS "k
MINIMUM DEPTH OF CUT WITH OR
WITHOUT TOP COPES = 6"

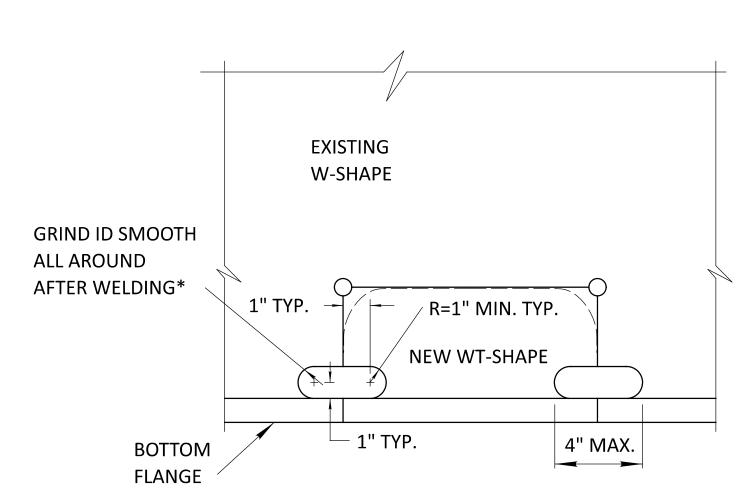
D04-BH-FY2024 (EAST)

**HOLES TO SQUARE** 

INTO "k" DIMENSION







FIELD REPAIR BOTTOM COPE BC1-3

SEE NOTE 8

- 1. INSTALL TEMPORARY SUPPORT
- 2. REMOVE SECONDARY MEMBERS AS NECESSARY IF APPLICABLE
- 3. SAW OR FLAME CUT TO REMOVE DAMAGED BEAM USING A MECHANICAL GUIDE
- 4. PREPARE EXISTING BEAM FOR COMPLETE PENETRATION WELD BY EDGE BEVELING AND CREATING UNDERSIZED WEB COPES.
- 5. PREPARE NEW BEAM FOR COMPLETE PENETRATION WELD BY EDGE BEVELING AND CREATING UNDERSIZED WEB COPES.
- 6. ERECT NEW BEAM AND CHECK FIT UP, NO GAP EXCEEDING  $\frac{1}{16}$ ", TACK WELD BEAM INTO PLACE
- 7. PERFORM THE COMPLETE PENETRATION FLANGE WELDING ACCORDING TO CMS 513.21 BY ATTACHING RUN OFF TABS, PERFORM WELDS, REMOVING TABS AND GRINDING ALL WELD SURFACES SMOOTH ACCORDING TO ANSI B46.1 OF 250 MIL. COMPLETE NDT TESTING ACCORDING TO C&MS 513.25A
- 8. PERFORM COMPLETE PENETRATION WEB WELDS ACCORDING TO 513.21 BY PERFORMING WELDS, GRINDING COPES AND ALL WELDS SMOOTH ACCORDING TO ANSI B46.1 OF 250 mil. COMPLETE NDT TESTING ACCORDING TO C&MS 513.25A.
- 9. REPAIR SECONDARY MEMBERS IF APPLICABLE

TABLE #3 513 REPAIRS					
BEAM NUMBER	LOCATION	REPAIR DETAIL TYPE	COPE HOLES (EACH)	STEEL MEMBER LEVEL UF (POUNDS)	CP WELD (FEET)
14	MID-SPAN BETWEEN PIERS 2 AND 3	BC1	2	631	11

OFFICE OF STRUCTURAL ENGINEERING

REVISION DATE 01-21-2021

> OF BEAM BCI PLAN INSERT SHEET - COLLISION REPAIR

DESIGN AGENCY



DESIGNER JRF REVIEWER MA 12-06-23 PROJECT ID 107246 SUBSET P.34 P.34