

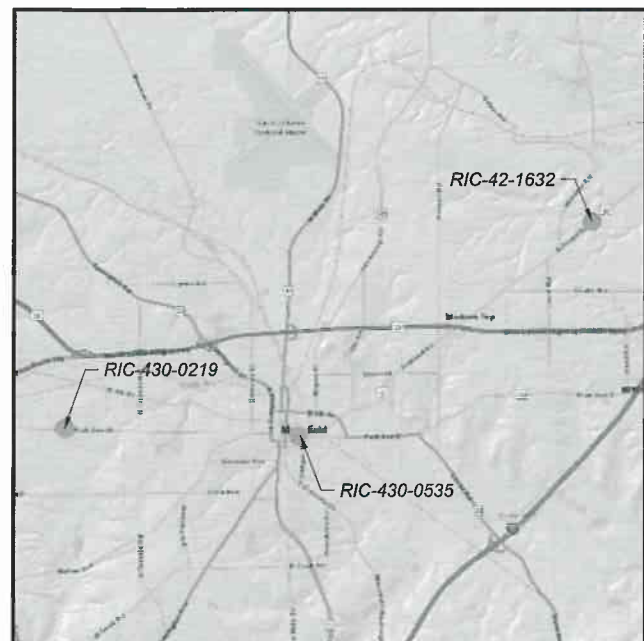
STATE OF OHIO DEPARTMENT OF TRANSPORTATION

RIC-BH-FY2023

CITY OF MANSFIELD
CITY OF ONTARIO

SPRINGFIELD TOWNSHIP
MADISON TOWNSHIP
MIFFLIN TOWNSHIP

RICHLAND COUNTY



LOCATION MAP

LATITUDE: 40° 45' 48" N LONGITUDE: 82° 30' 40" W



LOCATIONS TO BE IMPROVED	-----	●
INTERSTATE HIGHWAY	-----	=====
FEDERAL ROUTES	-----	=====
STATE ROUTES	-----	=====
COUNTY & TOWNSHIP ROADS	-----	=====
OTHER ROADS	-----	-----

DESIGN DESIGNATION

	RIC-42-1632	RIC-430-0219	RIC-430-0535
CURRENT ADT (2022)	23,000	12,000	10,000
DESIGN YEAR ADT (2042)	26,000	12,000	10,000
DESIGN HOURLY VOLUME (2042)	2,300	1,100	900
DIRECTIONAL DISTRIBUTION	55%	64%	52%
TRUCKS (24 HOUR B&C)	21%	3%	3%
DESIGN SPEED	50 MPH	35 MPH	25 MPH
LEGAL SPEED	50 MPH	35 MPH	25 MPH
NHS PROJECT	YES	NO	NO

DESIGN FUNCTIONAL CLASSIFICATION:

RIC-42-1632	NHS NON-INTERSTATE - MINOR ARTERIAL
RIC-430-0216	MINOR ARTERIAL
RIC-430-0535	MINOR ARTERIAL

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



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

ENGINEER'S SEAL:



SIGNED: *[Signature]*
DATE: 2023-01-06

INDEX OF SHEETS:

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FEDERAL PROJECT NUMBER

E190994

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE REHABILITATION OF THREE STRUCTURES IN RICHLAND COUNTY BY MEANS OF FIELD PAVING, INLET IMPROVEMENT, AND OTHER VARIOUS IN-SITU REMEDIATIONS.

EARTH DISTURBED AREAS

PROJECT EDA:	N/A *
ESTIMATED CONTRACTOR EDA:	N/A *
NOTICE OF INTENT EDA:	N/A *

EDA = EARTH DISTURBED AREA
* - MAINTENANCE PROJECT

2019 SPECIFICATIONS

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

PLANS PREPARED BY:



MOT CERTIFICATION

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.

APPROVED *[Signature]*
DATE 01/06/23 ROBERT WEAVER, P.E., P.S.
DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ JACK MARCHBANKS, Ph.D, DIRECTOR
DEPARTMENT OF TRANSPORTATION

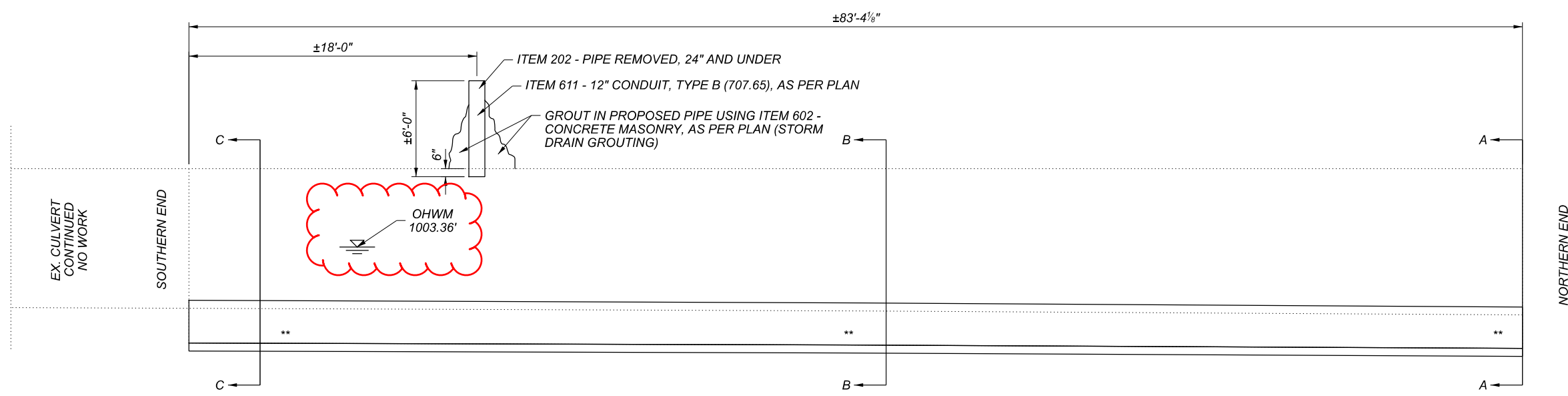
STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
MT-95.31	7/19/19	800 SEE PROPOSAL	WATERWAY PERMIT CONDITIONS
MT-95.50	7/21/17	821 4/20/12	02/27/2023
MT-96.20	7/15/16	832 10/19/18	
MT-97.10	4/19/19	921 4/20/12	
MT-101.90	7/17/20		
MT-105.10	1/17/20		
MT-110.10	7/19/13		
TC-42.20	10/18/13		
TC-52.10	10/18/13		
TC-52.20	1/15/21		

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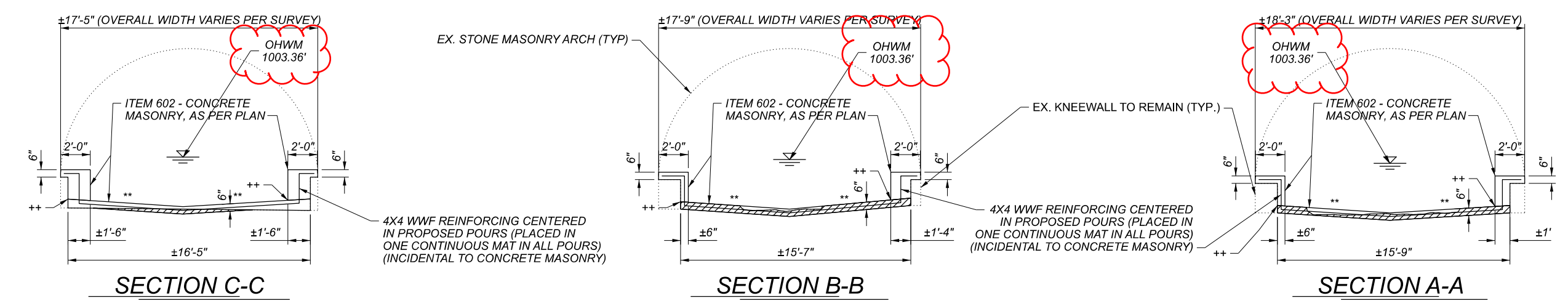
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TITLE SHEET

DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM	1&2
DESIGNER	TPG
REVIEWER	KCK
PROJECT ID	100079
SHEET TOTAL	P.01 27



CULVERT ELEVATION



ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
202	6	FT	PIPE REMOVED, 24" AND UNDER
611	6	FT	12" CONDUIT, TYPE B (707.65), AS PER PLAN
602	39	CY	CONCRETE MASONRY, AS PER PLAN
202	19	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (EXISTING INVERT BOTTOM)
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING

ALL QUANTITIES CARRIED TO GENERAL SUMMARY

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (EXISTING INVERT BOTTOM)

** MATCH EXISTING CROSS- AND PROFILE-SLOPES

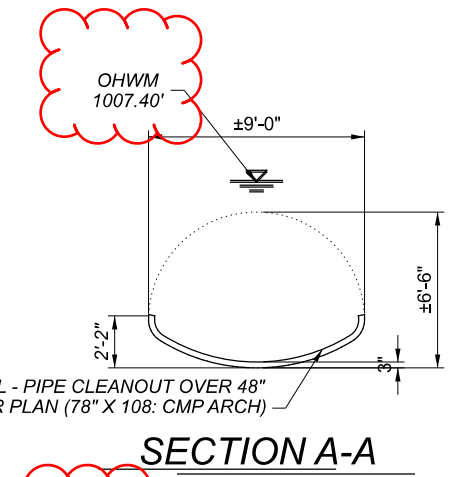
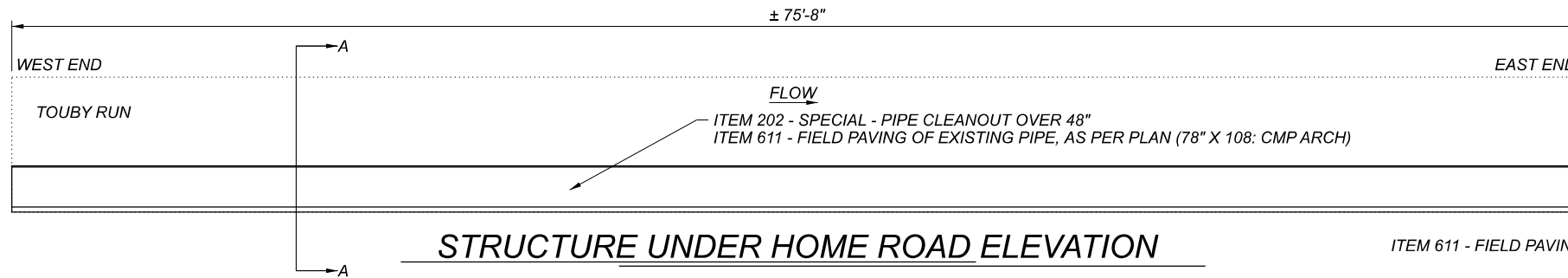
++ CONSTRUCTION JOINT

RIC-BH-FY2023

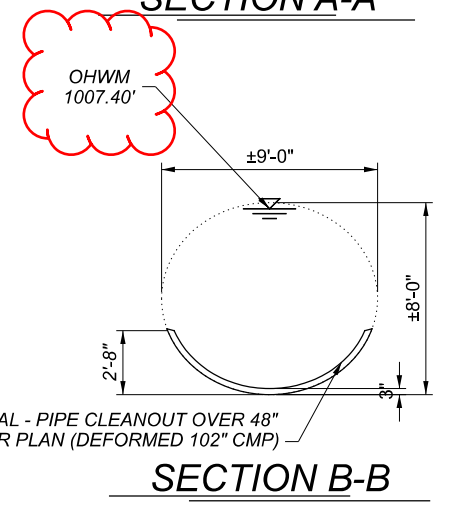
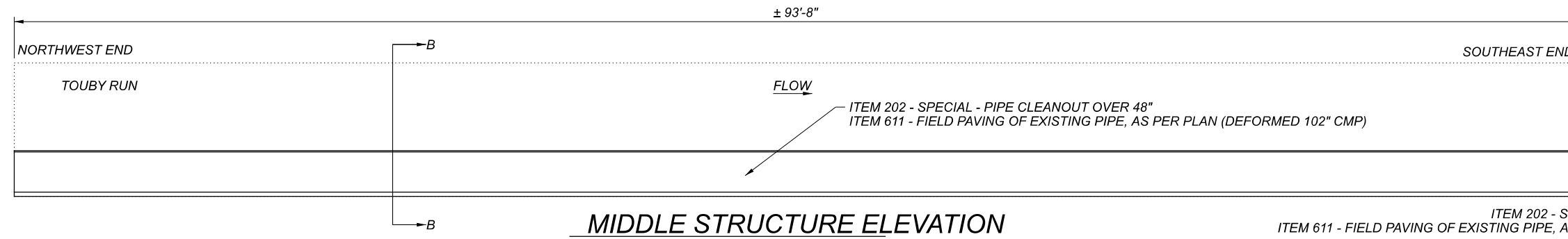
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STRUCTURE DETAILS
STRUCTURE RIC-430-0535 CARRYING SR 430 OVER RITTER'S RUN
ELEVATION AND REPAIR DETAILS

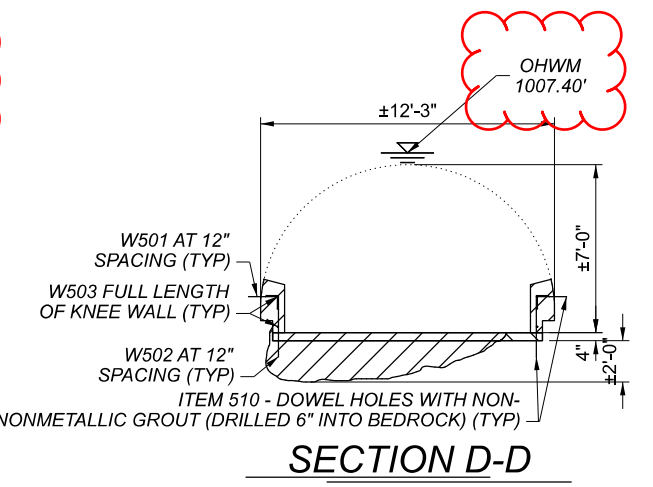
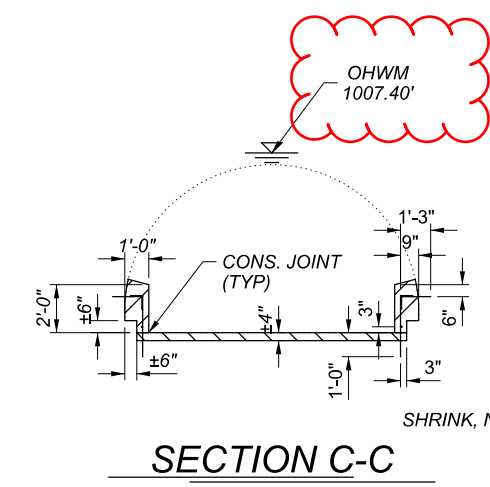
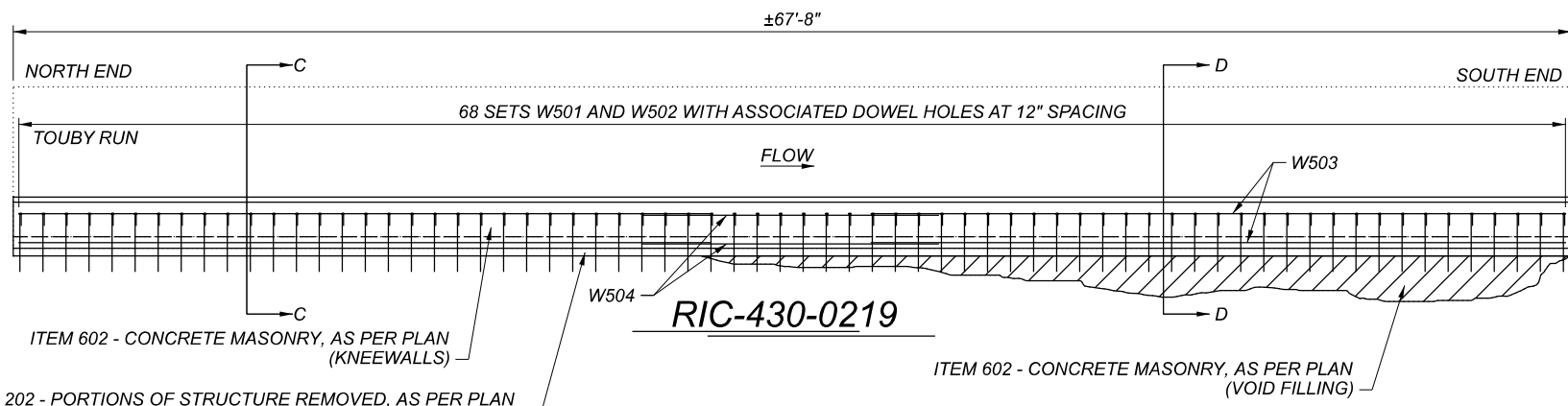
SFN 7006187
DESIGN AGENCY DISTRICT 3
ENGINEERING TEAM FOUR
DESIGNER/CHECKER KCK TPG
REVIEWER KAK 08/2021
PROJECT ID 100079
SUBSET 2 TOTAL 2
SHEET P.12 TOTAL 27



ITEM 202 - SPECIAL - PIPE CLEANOUT OVER 48"
 ITEM 611 - FIELD PAVING OF EXISTING PIPE, AS PER PLAN (78" X 108" CMP ARCH)



ITEM 202 - SPECIAL - PIPE CLEANOUT OVER 48"
 ITEM 611 - FIELD PAVING OF EXISTING PIPE, AS PER PLAN (DEFORMED 102" CMP)

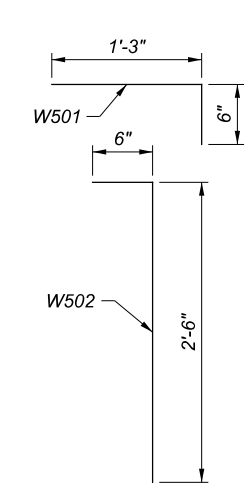


ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN -AND-
 ITEM 602 - CONCRETE MASONRY, AS PER PLAN

ESTIMATED QUANTITIES

ITEM	QUANTITY					UNIT	DESCRIPTION	
	STRUCTURE UNDER HOME ROAD			MIDDLE	STRUCTURE			TOTAL
	MANSFIELD 03/NFA/04	ONTARIO 04/NFA/04	TOTAL	STRUCTURE 03/NFA/04	UNDER 430 02/S<2/04			
202	15	60	75	95	170	FT	SPECIAL - PIPE CLEANOUT OVER 48"	
611	17	60	77	95	172	FT	FIELD PAVING OF EXISTING PIPE, AS PER PLAN (78" X 108" CMP ARCH)	
611			0	93	93	FT	FIELD PAVING OF EXISTING PIPE, AS PER PLAN (DEFORMED 102" CMP)	
611	1	1	2	1	3	CY	SPECIAL - GROUTING VOIDS AROUND CORRUGATED METAL PIPES	
510			0		272	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
509			0		854	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	
202			0		8	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (EXISTING INVERT BOTTOM)	
602			0		25	CY	CONCRETE MASONRY, AS PER PLAN	
503	LS	LS		LS	LS	LS	COFFERDAMS AND EXCAVATION BRACING	

ALL QUANTITIES CARRIED TO GENERAL SUMMARY



ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (REMOVE APPROXIMATELY 4" OF EXISTING INVERT OUTSIDE OF SCOUR HOLE TO PRODUCE A SOLID FOUNDATION FOR THE PROPOSED INVERT)

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN -AND- ITEM 602 - CONCRETE MASONRY, AS PER PLAN

BAR CHART

MARK	TYPE	LENGTH (FEET)			QTY NEEDED	WEIGHT (LBS)	
		HORIZ	VERTICAL	OVERALL		EACH	TOTAL
W501	BENT	1.25	0.50	1.75	136	1.83	249
W502	BENT	0.50	2.50	3.00	136	3.13	426
W503	STR			30.00	4	31.29	125
W504	STR			12.96	4	13.52	54