



# **STATE OF OHIO DEPARTMENT OF TRANSPORTATION**

# HAM-SR 562-0.54

# HAMILTON COUNTY

# CITY OF CINCINNATI, CITY OF NORWOOD

# **INDEX OF SHEETS:**

ENGINEER'S SEAL SHEETS 110-178	GENERAL S SUBSUMM PLAN AND TRAFFIC CC BARRIER DI CURB RAM PAVEMENT LIGHTING L STRUCTURI HAM-562-C HAM-562-C HAM-562-C	C PLAN CTIONS IOTES NCE OF TRAFI UMMARY ARIES PROFILES DNTROL ETAILS P DETAILS TREPAIR DETA DETAILS E OVER 20' SP. 0065 0121 0147 M 3 E OVER 20' SP.	35 - 38 39 - 43 44 - 49 50 - 10 102-10 105-10 ILS 107 108 AN 109 110 - 1 136 - 1	1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								
ENGINEER'S SEAL SHEET 109, ADD. 3												
SHEET 109, ADD. 3			STANDARI	) CONST	RUCTION	DRAWIN	IGS			SUPPLEM. SPECIFICA		SPECIAL PROVISIONS
SIGNED:		21/22 MGS-5.3	7/15/16	ITS-14.11	1/20/23	TC-9.11	7/16/21	TC-61.30	7/19/19	SPECIFICA 800-2019 SEE	<b>TIONS</b> PROPOSAL	<b>PROVISIONS</b> ASBESTOS
SIGNED:	BP-5.1 7/.	15/22 MGS-6.1	7/15/16		1/20/23	TC-9.11 TC-12.31	7/16/21 4/15/22	TC-65.10	1/17/14	<b>SPECIFICA</b> 800-2019 SEE 809	TIONS PROPOSAL 7/15/22	PROVISIONS ASBESTOS INSPECTION
SHEET 109, ADD. 3	BP-5.1 7/. BP-7.1 1/.	15/22 MGS-6.1 21/22	7/15/16 1/19/18	ITS-14.11 ITS-14.50	1/20/23 1/20/23	TC-9.11 TC-12.31 TC-15.116	7/16/21 4/15/22 7/16/21	TC-65.10 TC-65.11	1/17/14 7/15/22	<b>SPECIFICA</b> 800-2019 SEE 809 813 1	<b>TIONS</b> PROPOSAL 7/15/22 10/19/18	<b>PROVISIONS</b> ASBESTOS
SHEET 109, ADD. 3 SHEET 109, ADD. 3 SIGNED: DATE: DAT	BP-5.1 7/. BP-7.1 1/.	15/22 MGS-6.1	7/15/16 1/19/18	ITS-14.11 ITS-14.50 MT-95.30	1/20/23 1/20/23 7/19/19	TC-9.11 TC-12.31 TC-15.116 TC-21.11	7/16/21 4/15/22 7/16/21 7/16/21	TC-65.10 TC-65.11 TC-71.10	1/17/14 7/15/22 7/15/22	<b>SPECIFICA</b> 800-2019 SEE 809 813 1 821	<b>TIONS</b> PROPOSAL 7/15/22 10/19/18 4/20/12	PROVISIONS ASBESTOS INSPECTION
SHEET 109, ADD. 3	BP-5.1         7/           BP-7.1         1/           BP-9.1         1/	15/22 MGS-6.1 21/22 18/19 RM-4.2	7/15/16 1/19/18 4/17/20	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31	1/20/23 1/20/23 7/19/19 7/19/19	TC-9.11 TC-12.31 TC-15.116 TC-21.11 TC-21.21	7/16/21 4/15/22 7/16/21 7/16/21 1/20/23	TC-65.10 TC-65.11 TC-71.10 TC-72.20	1/17/14 7/15/22 7/15/22 7/20/18	SPECIFICA           800-2019         SEE           809         813         1           821         832         1	TIONS           PROPOSAL           7/15/22           10/19/18           4/20/12           7/15/22	PROVISIONS ASBESTOS INSPECTION
SHEET 109, ADD. 3	BP-5.1         7/.           BP-7.1         1/.           BP-9.1         1/.           DM-4.3         1/.	15/22 MGS-6.1 21/22 18/19 RM-4.2 15/16 EXJ-2-81	7/15/16 1/19/18 4/17/20 7/15/22	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31 MT-95.32	1/20/23 1/20/23 7/19/19 7/19/19 4/19/19	TC-9.11 TC-12.31 TC-15.116 TC-21.11 TC-21.21 TC-21.50	7/16/21 4/15/22 7/16/21 7/16/21 1/20/23 4/17/20	TC-65.10 TC-65.11 TC-71.10	1/17/14 7/15/22 7/15/22	SPECIFICA           800-2019         SEE           809         813         1           821         832         847	<b>TIONS</b> PROPOSAL 7/15/22 10/19/18 4/20/12 7/15/22 1/15/21	PROVISIONS ASBESTOS INSPECTION
SHEET 109, ADD. 3	BP-5.1         7/.           BP-7.1         1/.           BP-9.1         1/.           DM-4.3         1/.	15/22 MGS-6.1 21/22 18/19 RM-4.2 15/16 EXJ-2-81 15/16 EXJ-4-87	7/15/16 1/19/18 4/17/20 7/15/22 1/20/23	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31 MT-95.32 MT-95.45	1/20/23 1/20/23 7/19/19 7/19/19 4/19/19 1/17/20	TC-9.11 TC-12.31 TC-15.116 TC-21.11 TC-21.21 TC-21.50 TC-22.20	7/16/21 4/15/22 7/16/21 7/16/21 1/20/23 4/17/20 1/17/14	TC-65.10 TC-65.11 TC-71.10 TC-72.20	1/17/14 7/15/22 7/15/22 7/20/18	SPECIFICA           800-2019         SEE           809         813         1           821         832         847           848         848         848	TIONS PROPOSAL 7/15/22 10/19/18 4/20/12 7/15/22 1/15/21 1/15/21	PROVISIONS ASBESTOS INSPECTION
SHEET 109, ADD. 3 SHEET 109, ADD. 3 SIGNED: DATE: DATE: DATE: DATE: DATE: DATE: SIGNED: DATE: DATE: DATE: DATE: DATE: SIGNEER'S SEAL SHEETS 1-108	BP-5.1 7/. BP-7.1 1/. BP-9.1 1/. DM-4.3 1/. DM-4.4 1/.	15/22 MGS-6.1 21/22 18/19 RM-4.2 15/16 EXJ-2-81 15/16 EXJ-4-87 GSD-1-19	7/15/16 1/19/18 4/17/20 7/15/22 1/20/23 0 1/15/21	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31 MT-95.32 MT-95.45 MT-98.10	1/20/23 1/20/23 7/19/19 7/19/19 4/19/19 1/17/20 1/17/20	TC-9.11 TC-12.31 TC-15.116 TC-21.11 TC-21.21 TC-21.50 TC-22.20 TC-41.10	7/16/21 4/15/22 7/16/21 7/16/21 1/20/23 4/17/20 1/17/14 7/19/13	TC-65.10 TC-65.11 TC-71.10 TC-72.20	1/17/14 7/15/22 7/15/22 7/20/18	SPECIFICA 800-2019 SEE 809 813 1 821 832 847 848 875	PROPOSAL           7/15/22           10/19/18           4/20/12           7/15/22           1/15/21           1/15/21           1/15/21           1/15/21           1/18/19	PROVISIONS ASBESTOS INSPECTION
SIGNED: DATE: DATE: DATE: DATE: DATE: DATE: SIGNEER'S SEAL SHEETS 1-108	BP-5.1 7/. BP-7.1 1/. BP-9.1 1/. DM-4.3 1/. DM-4.4 1/.	15/22 MGS-6.1 21/22 18/19 RM-4.2 15/16 EXJ-2-81 15/16 EXJ-4-87	7/15/16 1/19/18 4/17/20 7/15/22 1/20/23 0 1/15/21	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31 MT-95.32 MT-95.45 MT-98.10 MT-98.20	1/20/23 1/20/23 7/19/19 7/19/19 4/19/19 1/17/20 1/17/20 4/19/19	TC-9.11 TC-12.31 TC-15.116 TC-21.11 TC-21.21 TC-21.50 TC-22.20 TC-41.10 TC-41.20	7/16/21 4/15/22 7/16/21 1/20/23 4/17/20 1/17/14 7/19/13 10/18/13	TC-65.10 TC-65.11 TC-71.10 TC-72.20	1/17/14 7/15/22 7/15/22 7/20/18	SPECIFICA           800-2019         SEE           809         813           813         1           821         832           847         848           875         880	TIONS PROPOSAL 7/15/22 10/19/18 4/20/12 7/15/22 1/15/21 1/15/21 1/18/19 1/21/22	PROVISIONS ASBESTOS INSPECTION
SHEET 109, ADD. 3 SHEET 109, ADD. 3 SIGNED: DATE: DATE: DATE: DATE: DATE: DATE: SIGNED: CONTREME SIGNED: SIGNED: SIGNED: CONTREME SIGNED:	BP-5.1         7/.           BP-7.1         1/.           BP-9.1         1/.           DM-4.3         1/.           DM-4.4         1/.           MC-9.3         10/.	15/22 MGS-6.1 21/22 18/19 RM-4.2 15/16 EXJ-2-81 15/16 EXJ-4-87 GSD-1-19 30/92 SBR-1-20	7/15/16 1/19/18 4/17/20 7/15/22 1/20/23 0 1/15/21 1/20/23	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31 MT-95.32 MT-95.45 MT-98.10 MT-98.20 MT-98.29	1/20/23 1/20/23 7/19/19 7/19/19 4/19/19 1/17/20 1/17/20 1/17/20	TC-9.11           TC-12.31           TC-15.116           TC-21.21           TC-21.21           TC-21.50           TC-22.20           TC-41.10           TC-41.20           TC-41.30	7/16/21 4/15/22 7/16/21 1/20/23 4/17/20 1/17/14 7/19/13 10/18/13	TC-65.10 TC-65.11 TC-71.10 TC-72.20	1/17/14 7/15/22 7/15/22 7/20/18	SPECIFICA           800-2019         SEE           809         813         1           821         832         847           8448         875         880           909         909         909	<b>TIONS</b> PROPOSAL 7/15/22 10/19/18 4/20/12 7/15/22 1/15/21 1/15/21 1/18/19 1/21/22 7/15/22	PROVISIONS ASBESTOS INSPECTION
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SHEET 109, ADD. 3 SHEET 109, ADD. 3 SIGNED: DAND ROBERT BOTTOSIONAL ENGINE SIGNED: DATE: DATE: D2/20/2023 ENGINEER'S SEAL SHEETS 1-108 SIGNED: CTATE OF OHO DATE: D2/20/2023 CTATE OF OHO DATE: D3/DSHUA W. LOCKHART PE-74012 CTATE OF OHO DATE: D3/DSHUA W. DOCHART DC/DSHUA W. DOCHART DC/DSHUA W. DC/DSHUA W	BP-5.1         7/.           BP-7.1         1/.           BP-9.1         1/.           DM-4.3         1/.           DM-4.4         1/.           MC-9.3         10/.           MGS-1.1         7/.           MGS-2.1         1/.	15/22 MGS-6.1 21/22 18/19 RM-4.2 15/16 EXJ-2-81 15/16 EXJ-2-81 15/16 EXJ-4-87 GSD-1-19 30/92 SBR-1-20 16/21 HL-10.13 19/18 HL-20.14	7/15/16 1/19/18 4/17/20 7/15/22 1/20/23 0 1/15/21 1/20/23 1/20/23 4/17/20	ITS-14.11 ITS-14.50 MT-95.30 MT-95.31 MT-95.32 MT-95.45 MT-98.10 MT-98.20 MT-98.20 MT-98.30 MT-98.20	1/20/23 1/20/23 7/19/19 7/19/19 4/19/19 1/17/20 1/17/20 4/19/19 1/17/20 7/16/21 4/19/19	TC-9.11 TC-12.31 TC-15.116 TC-21.11 TC-21.21 TC-21.50 TC-21.50 TC-21.50 TC-41.10 TC-41.20 TC-41.20 TC-41.40 TC-41.40	7/16/21 4/15/22 7/16/21 1/20/23 4/17/20 1/17/14 7/19/13 10/18/13 10/18/13 10/18/13	TC-65.10 TC-65.11 TC-71.10 TC-72.20	1/17/14 7/15/22 7/15/22 7/20/18	SPECIFICA           800-2019         SEE           809         813           821         832           848         8475           880         909           913         13	<b>TIONS</b> PROPOSAL 7/15/22 10/19/18 4/20/12 7/15/22 1/15/21 1/15/21 1/18/19 1/21/22 7/15/22	PROVISIONS ASBESTOS INSPECTION
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# FEDERAL PROJECT NUMBER

E200303

### RAILROAD INVOLVEMENT

INDIANA & OHIO

## **PROJECT DESCRIPTION**

RESURFACING THE NORWOOD LATERAL (SR 562) IN HAMILTON COUNTY. REHABILITATE MAINLINE BRIDGES OF SR 562 BY REPLACING JOINTS, PAINTING, SEALING, AND REPLACING BARRIERS.

# EARTH DISTURBED AREAS

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

2.1 ACRES 0.5 ACRES N/A (NOI NOT REQUIRED)\* \*ROUTINE MAITENENCE PROJECT

# 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 AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART-TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEETS 19, 20 & 28. DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES

DESIGN AG	ENCY
CMT CMT CMTPHY &	LLLT, INC. FREMICK BOULEVARD FNINGBORO, DHIO 45066 1 (337)701-2193 ww.cmitengr.com
	- 2025 2
DESIGNER	- 2025 2
DESIGNER LD	W
DESIGNER	W
DESIGNER LD REVIE JWL 1	W WER 1/21/22
DESIGNER LD REVIE	W WER 1/21/22
DESIGNER LD REVIE JWL 11 PROJECT ID 102	WER 1/21/22
DESIGNER LD REVIE JWL 1: PROJECT ID	WER 1/21/22

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DATE \_

DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_

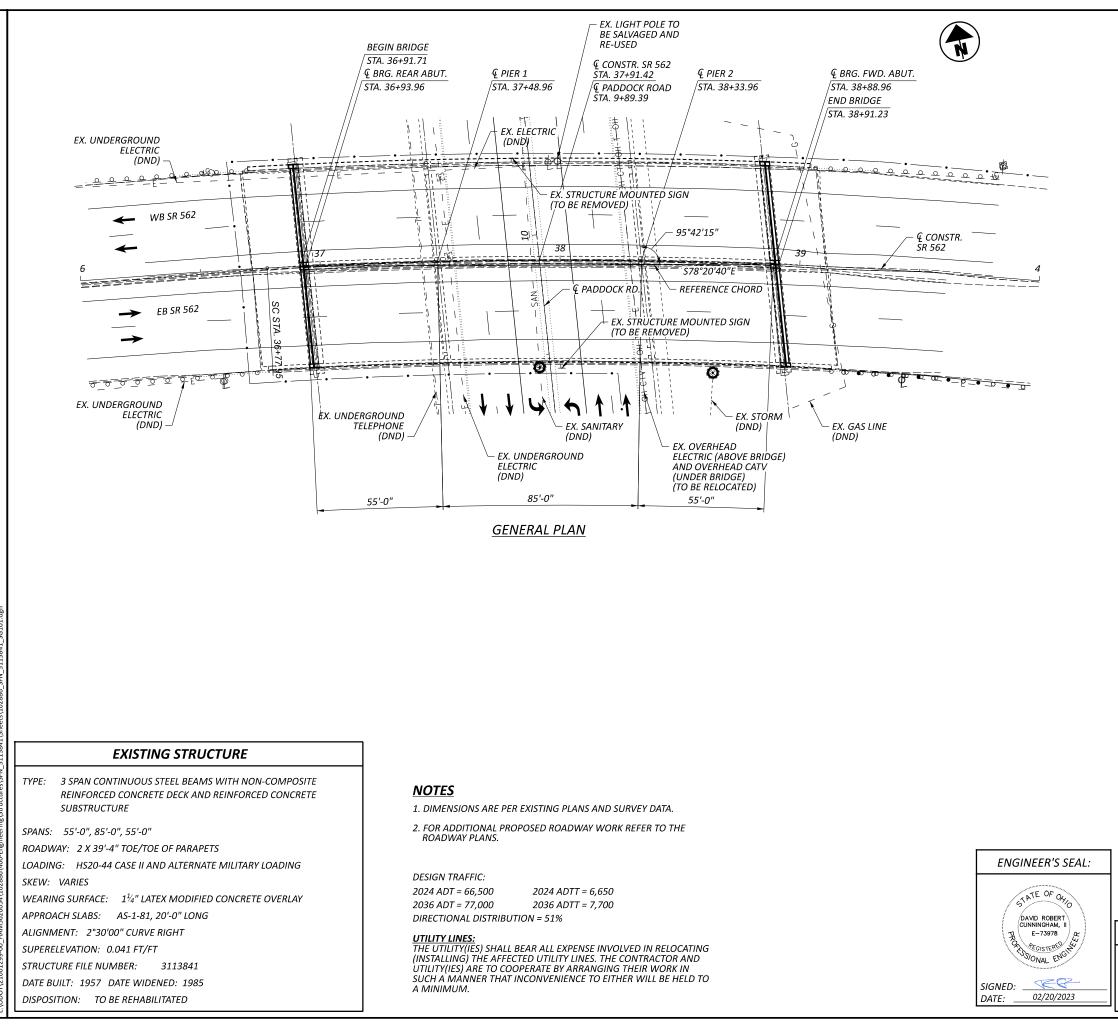
DATE

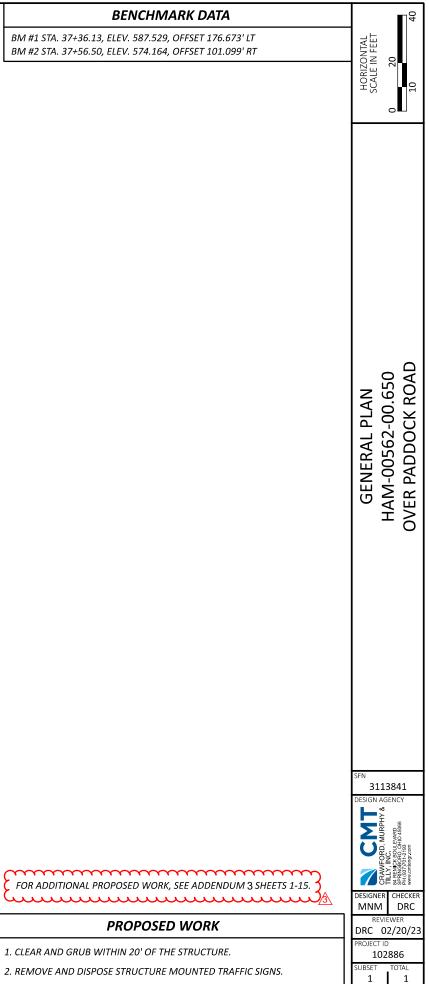
DIRECTOR, DEPARTMENT OF TRANSPORTATION

SHEET TITLE

			S	SHEET NUN	Л.					PART.				ITEM	GRAND		
1	18	141					0:	1/NHS/05	02/NHS/14	03/NHS/14	04/SAF/ 21	05/SAF/ 21/NORW	ITEM	EXT	TOTAL	UNIT	D
		129								129			625	29002	129	FT	TRENCH, 24" DEEP
		14								14			625	29940	14	EACH	BARRIER JUNCTION BOX
		2 11								2 11			625 625	30711 35011	2 11	EACH EACH	PULL BOX, 725.08, 32", AS PER PLAN REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN
		3								3			625	39520	3	EACH	PULL BOX CLEANED
		LS								LS			625	98200	LS	Entern	LIGHTING, MISC.:(RESTORE EXISTING LIGHTING CIRCUIT)
		1,409								1,409			809	24500	1,409	FT	CONDUIT, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS
		12,332								12,332			848	10201	12,332	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYD
		12,332								12,332			848	20000	12,332	SY	SURFACE PREPARATION USING HYDRODEMOLITION
		14								14			848	30200	14	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE
		245								245			848	50000	245	SY	HAND CHIPPING
		LS								LS			848	50100	LS		TEST SLAB
		2								2			848	50200	2	СҮ	FULL-DEPTH REPAIR
		12,228								12,228			848	50320	12,228	SY	EXISTING CONCRETE OVERLAY REMOVED
								222						11110	222	110115	
_	320 7							320 7					614	11110	320	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSIS
/ .s								/ LS					614 614	12380 12420	7 LS	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (L DETOUR SIGNING
-	5 1							31					614	12420	31	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY
	1							31					614	13350	31	EACH	OBJECT MARKER, ONE WAY
_																	
	32							32					614	18600	32	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN
	.07							0.07					614	22210	0.07	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I
_	.69							0.69					614	22326	0.69	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 873
_	.50 15							150 215					614 614	24402 24122	150 215	FT FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I
	15							215					614	24122	215	FI	WORK ZONE DOTTED LINE, CLASS I, 6", 873
	.03							5.03					614	20110	5.03	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT
	.03							13.03					614	22110	13.03	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT
-	100							400					614	23200	400	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT
3	60							7,860					614	23210	7,860	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT
	581							7,581					614	24202	7,581	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT
_	50							2,060					614	24208	2,060	FT	WORK ZONE DOTTED LINE, CLASS I, 12", 642 PAINT
110 02	$\vdash$							2,110 302					614 614	25200 26200	2,110 302	FT FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PA WORK ZONE STOP LINE, CLASS I, 642 PAINT
	79							479					614	27050	479	FT	WORK ZONE GROSSWALK LINE, CLASS I, 642 PAINT
-	2							32					614	30200	32	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT,6'
_	4							4					614	30200	4	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT,(WRONG WAY)
-	080							1,080					622	41100	1,080	FT	PORTABLE BARRIER, UNANCHORED
	00							400					642	00400	400	FT	CHANNELIZING LINE, 8", TYPE 1
	.04 734							0.04					644	00204	0.04	MILE	LANE LINE, 6"
/	54							1,734					644	01510	1,734	FT	DOTTED LINE, 6"
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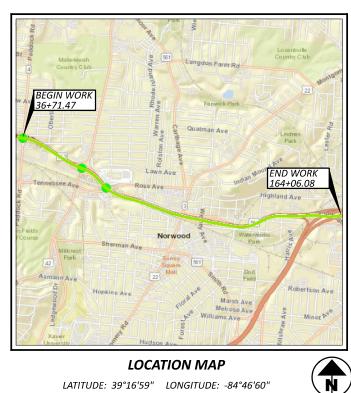
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		NCB REVIEWER
		JWL 02/20/23 PROJECT ID
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3. RELOCATE OVERHEAD UTILITIES UNDER THE BRIDGE TO UNDERGROUND.

109 178



LATITUDE: 39°16'59" LONGITUDE: -84°46'60"

PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	-

# **DESIGN DESIGNATION**

# SEE SHEET 2

CURRENT ADT ()
DESIGN YEAR ADT ()
DESIGN HOURLY VOLUME ()
DIRECTIONAL DISTRIBUTION
TRUCKS (24 HOUR B&C)
DESIGN SPEED
LEGAL SPEED
DESIGN FUNCTIONAL CLASSIFICATION:

NHS PROJECT \_\_\_\_\_

## **DESIGN EXCEPTIONS**

### NONE

nmetz

AM

IME

HAM-SR 562-0.54 ADDENDUM 3

## ADA DESIGN WAIVERS

NONE





# **STATE OF OHIO DEPARTMENT OF TRANSPORTATION** HAM-SR 562-0.54

# **ADDENDUM** 3

# HAMILTON COUNTY CITY OF CINCINNATI, CITY OF NORWOOD

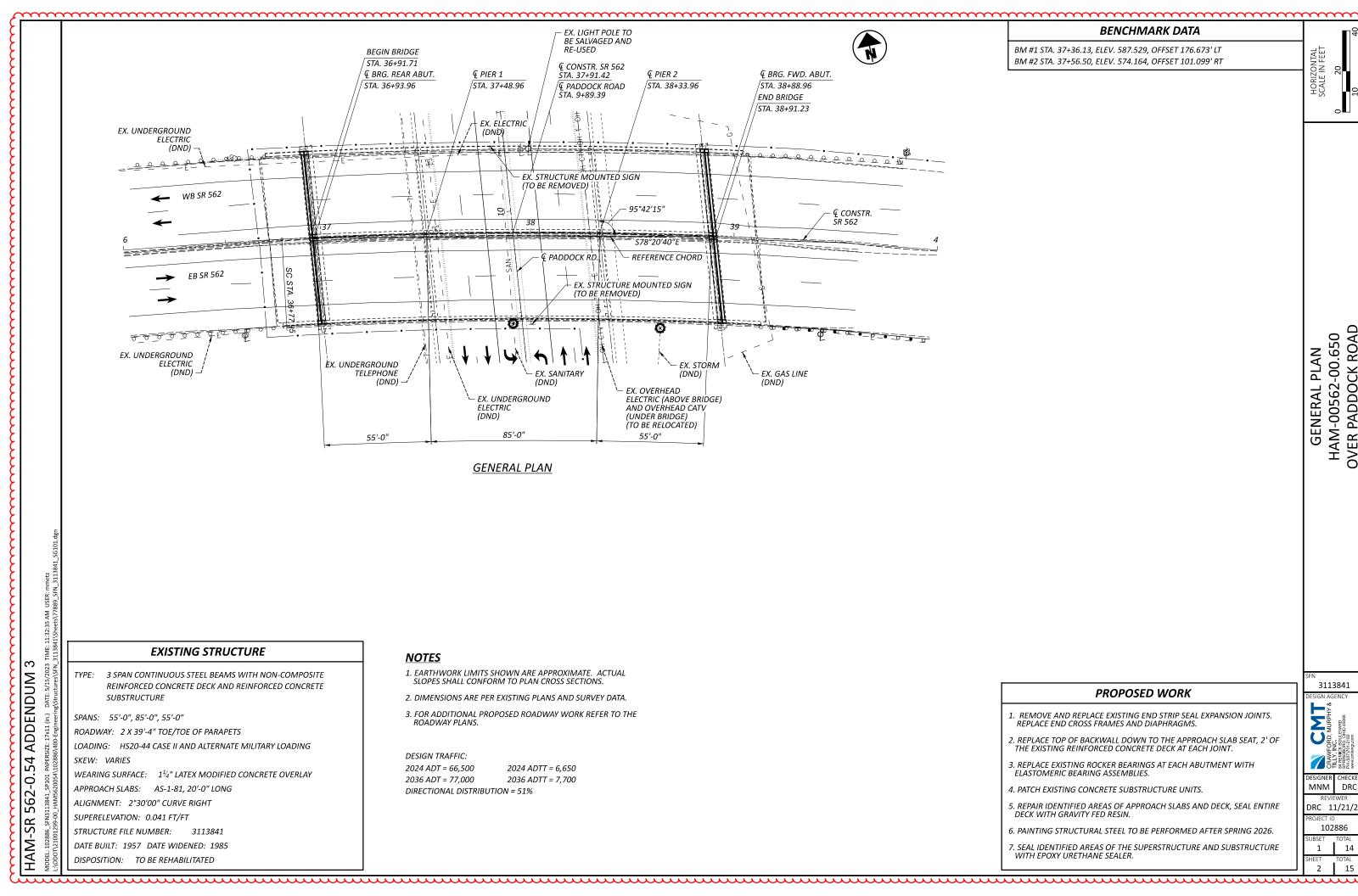
# **INDEX OF SHEETS:**

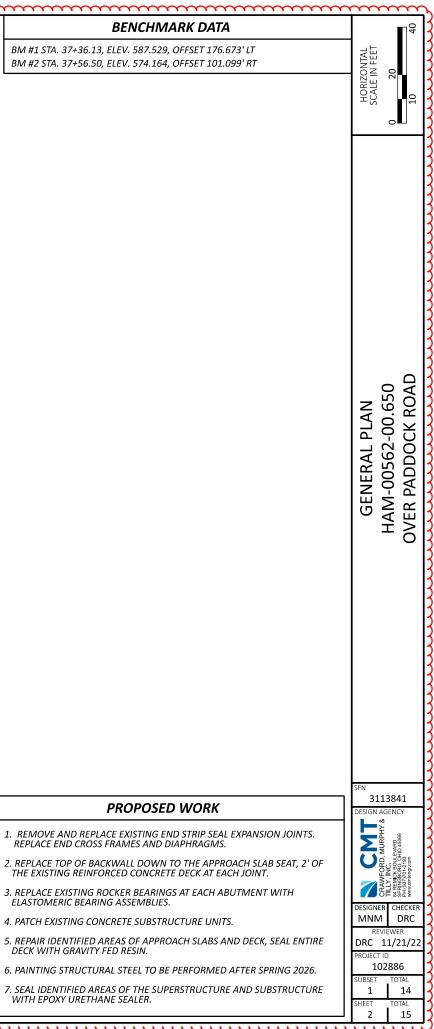
ENGINEER'S SEAL SHEET 2-15

TITLE SHEET 1 STRUCTURE OVER 20' SPAN HAM-562-0065 2-15

	STATE OF QHO DAVID ROBERT UCINNINGHAM, II UE-73978 C	SEE SHEET 1/178					
	Brits PEOSTERED AND	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS			
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<b>1.org</b> ouDig 800-362-2764	STATE OF QUID	SEE SHEET 1/178	SEE SHEET 1/178	SEE SHEET	APPROVED		CRAWFORD, N. TILLY, N.C. FRIMCKBOULE BARNAGROULE BARNAGROULE FRIMCKBOULE BARNAGROULE BARNAGROULE FRIMCKBOULE BARNAGROULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMCKBOULE FRIMC
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FEDERAL PROJECT NUMBER E200303 RAILROAD INVOLVEMENT INDIANA & OHIO PROJECT DESCRIPTION RESURFACING THE NORWOOD LATERAL (SR 562) REHABILITATE MAINLINE BRIDGES OF SR 562 BY PAINTING, SEALING, AND REPLACING BARRIERS.		
<b>EARTH DISTURBED AREAS</b> PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:	2.1 ACRES 0.5 ACRES N/A (NOI NOT REQUIRED)* *ROUTINE MAITENENCE PROJECT	
LIMITED ACCESS THIS IMPROVEMENT IS ESPECIALLY DESIGNED F THROUGH TRAFFIC AND HAS BEEN DECLARED A ACCESS HIGHWAY OR FREEWAY BY ACTION OF TH DIRECTOR IN ACCORDANCE WITH THE PROVISIO SECTION 5511.02 OF THE OHIO REVISED CODE.	LIMITED IE	TITLE SHEET
2023 SPECIFICATIONS THE STANDARD SPECIFICATIONS OF THE STATE C OHIO, DEPARTMENT OF TRANSPORTATION, INCL SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL GOVERN THIS IMPROVEMENT. I HEREBY APPROVE THESE PLANS AND DECLARE THE MAKING OF THIS IMPROVEMENT WILL REQU THE PART-TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEETS 19, 20 & 28. DUF WHICH TIME DETOURS WILL BE PROVIDED AS SH HEREIN. PROVISIONS FOR THE MAINTENANCE AN SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES		
APPROVED DIS DATE DIS APPROVED	TRICT DEPUTY DIRECTOR	DESIGN AGENCY BOOST OF TOTAL ACTION TO A CONTRACT AND A CONTRACT
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### **GENERAL NOTES:**

### STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

SS800 REVISED 01-21-22

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION FOR STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

<u>OPERATIONAL IMPORTANCE</u> A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

### DESIGN DATA:

DESIGN LOADING: HS20-44 (SUPERSTRUCTURE) FUTURE WEARING SURFACE (FWS) 0.060 KSF

### **DESIGN STRESSES:**

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996 - GRADE 60, MINIMUM YIELD STRENGTH 60 KSI

EXIST. STRUCTURAL STEEL - ASTM A36 MINIMUM YIELD STRENGTH 36 KSI

# DECK PROTECTION METHOD: EPOXY COATED REINFORCING STEEL

2-1/2 INCH CONCRETE COVER

SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) SEALING DECK WITH GRAVITY FED RESIN

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 CMS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID 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.

### UTILITY LINES:

THE UTILITY(IES) SHALL BEAR ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MÁNNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

# ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN: DESCRIPTION:

THIS WORK SHALL INCLUDE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES.

THE CONTRACTOR MUST REVIEW THE STRUCTURE WHEN PREPARING HIS BID. THE CONTRACTOR WILL REVIEW THE CONDITION OF THE STRUCTURE TO DETERMINE WHAT DEBRIS WILL FALL FROM THE STRUCTURE DURING REMOVAL. THE CONTRACTOR WILL DETERMINE THE CORRESPONDING COST TO CLEAN-UP ANY AND ALL DEBRIS WHICH FALLS FROM THE STRUCTURE DURING ANY REMOVAL OPERATION. THE COST TO CLEAR AND CLEAN-UP ALL DEBRIS DURING REMOVAL SHALL BE INCLUDED WITH THE BID FOR THIS ITEM OF WORK. NO ADDITIONAL COST WILL BE RECOGNIZED TO CLEAN DEBRIS RESULTING FROM THE STRUCTURE REMOVAL OPERATION.

PERFORM WORK CAREFULLY DURING REMOVAL OPERATIONS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. IN THIS RESPECT, THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF THE DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPARTSTELL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

DECK CONCRETE REMOVAL: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (PRESTRESSED BOX BEAM, I-BEAM, STEEL BEAM, STEEL GIRDER, ETC.), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS. DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN

REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN. DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

### EXISTING WELDED ATTACHMENTS:

REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS; AND SUPPORTS FOR SCUPPERS AND BULB ANGLES WHICH ARE TO BE REMOVED) LOCATED IN THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES.

### LOADING LIMITATIONS:

NO PART OF THE STRUCTURE SHALL BE SUBJECTED TO UNIT STRESSES THAT EXCEED 136.5% OF ALLOWABLE UNIT STRESSES AS DEFINED IN THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DUE EITHER TO DEMOLITION, ERECTION, OR CONSTRUCTION METHODS, OR TO THE USE OR MOVEMENT OF DEMOLITION OR ERECTION EQUIPMENT ON OR ACROSS THE STRUCTURE. SUBMIT STRUCTURAL ANALYSIS COMPUTATIONS, BY AN OHIO REGISTERED PROFESSIONAL ENGINEER, SHOWING THE ALLOWABLE STRESSES AND THE MAXIMUM STRESSES PRODUCED BY THE REMOVAL METHODS OR EQUIPMENT TO THE DIRECTOR AT LEAST 20 DAYS BEFORE CONSTRUCTION BEGINS.

### CUT LINE CONSTRUCTION JOINT PREPARATION

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

THIS STRUCTURE IS SUBJECT TO TESTING FOR ASBESTOS. THE CONTRACTOR SHALL USE A STATE CERTIFIED ASBESTOS INSPECTOR TO INSPECT AND SAMPLE THE BRIDGE FOR THE PRESENCE OF ASBESTOS. THE SAMPLES WILL BE PROVIDED TO THE CONTRACTOR FOR TESTING. THE COST TO INSPECT AND SAMPLE THE BRIDGE FOR THE PRESENCE OF ASBESTOS, TO DELIVER THE SAMPLES TO A TEST LAB, AND TO TEST THE SAMPLES FOR ASBESTOS WILL BE INCLUDED IN THIS PAY ITEM. IF, DURING TESTING, ASBESTOS WILL BE INCLODED IN THIS PAY ITEM. IF, DORING TESTING, THE PRESENCE OF ASBESTOS IS CONFIRMED, THE CONTRACTOR SHALL REMOVE IT AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHALL COMPLETE THE "OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION" AFTER THE TESTING IS COMPLETE AND SEND THE FORM TO THE OHIO EPA 10 DAYS PRIOR TO DEMOLITION OR RENOVATION ACTIVITIES.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN: REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF DOLMOR ACCEPTED UND ACCEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME SIZE AND COATING AND MATERIAL AT NO COST TO THE DEPARTMENT.

ITEM 509 - UNCOATED STEEL REINFORCEMENT, AS PER PLAN IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLAN, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS.

# <u>ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE),</u> <u>AS PER PLAN</u> THE FOLLOWING SURFACES SHALL BE SEALED WITH EPOXY-URETHANE

SEALER. THE COLOR SHALL BE FEDERAL COLOR NUMBER 17778 (LIGHT NEUTRAL). THE SURFACE TO BE SEALED SHALL HAVE SURFACE PREPARATION PER CMS 512.03 (F) INCLUDING THE REMOVAL OF ANY EXISTING COATINGS. REMOVAL OF EXISTING COATING SHALL BE PAID FOR UNDER ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES.

- 1. ALL EXPOSED SURFACES OF THE DECK OVERHANG, BRIDGE RAILING ON ABUTMENT WINGWALLS AND MEDIAN PARAPET AS SHOWN IN THE PLANS.
- THE PLANS.
   THE ABUTMENT BACKWALLS, BEAM SEATS AND FACE OF THE BREASTWALL TO THE GROUND LINE.
   THE PIER CAP SIDES, BOTTOM, ENDS AND THE TOTAL SURFACE OF THE COLUMNS TO THE GROUND LINE.

DUE TO THE RECENT SUPPLY SHORTAGES, THE DEPARTMENT HAS BEEN MADE AWARE OF DIFFICULTIES THAT SUPPLIERS ARE HAVING IN OBTAINING THE NECESSARY MATERIALS FOR EPOXY. ON THIS PROJECT THE CONTRACTOR CAN USE TRADITIONAL EPOXY-URETHANE SEALERS APPROVED ON THE QPL OR ELECT TO SUBSTITUTE BRIDGE COTE XL-70 W/SILANE THAT IS LISTED ON THE APPROVED NOISE SUPPLIER LIST UNDER APPROVED SEALERS FOR NOISE BARRIERS. APPROVEDNOISESUPPLIERSLIST.PDF (OHIO.GOV)

IF BRIDGE COTE XL-70 W/SILANE IS CHOSEN, MEET THE REQUIREMENTS OF THE BRIDGE COTE XL-70 W/SILANE TECHNICAL DATA SHEET WITH THE EXCEPTION OF THE SURFACE PREPARATION THAT WILL STILL FOLLOW THE REQUIREMENTS LISTED UNDER C&MS 512 FOR EPOXY URETHANE SEALERS

က HAM-SR 562-0.54 ADDENDUM 11:32:37 / 17x11 (in.)

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN ALL REQUIREMENTS OF C&MS 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN S1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE IN ACCORDANCE WITH C&MS 501.06, TO THE ENGINEER. PROVIDE THE ENGINEER "AS-BUILT" DRAWINGS ACCORDING TO C&MS 513.06, EXCEPT C&MS 501.04 DOES NOT APPLY. UPON RECEIPT OF THE ENGINEER'S ACCEPTANCE, SUPPLY A COPY OF THE DRAWINGS, ACCORDING TO S1002, TO THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES.

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: END CROSS FRAME: L4x4x<sup>3</sup>/<sub>8</sub>" AND <sup>1</sup>/<sub>2</sub>" GUSSET PLATE

THIS STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED WITH A PRIME, INTERMEDIATE AND FINISH COAT OF PAINT IN THE FIELD USING SYSTEM OZEU. MATCH THE EXISTING PAINT COLORS AS CLOSE AS POSSIBLE TO THE EXISTING PAINT SYSTEM. ALL WORK, MATERIALS AND COST TO PAINT THE NEW STRUCTURAL STEEL SHALL BE INCLUDED IN THIS PAY ITEM.

### ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

AS PER PLAN THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE SEPARATION 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. 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, SOUTH 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

ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN THE CONTRACTOR SHALL FIELD VERIFY THE TOE OF THE EXISTING BARRIERS AT THE EXISTING JOINT AND PROVIDE ELEVATIONS TO THE JOINT FABRICATOR TO CONFIRM THE EXISTING DECK CROSS SLOPE AT EACH JOINT. THE CONTRACTOR SHALL ALSO FIELD VERIFY THE PLAN VIEW DIMENSIONS PRIOR TO JOINT FABRICATION. IF UPON FIELD VERIFICATION, THE DIMENSIONS VARY FROM WHAT IS SHOWN, THE JOINT SHALL MATCH THE INFORMATION FOUND IN THE FIELD. ALL LABOR, MATERIAL, AND INCIDENTALS TO FIELD VERIFY SHALL BE INCLUDED IN THE APPROPRIATE PAY ITEM 516, STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN.

ITEM 514 - FIELD PAINTING STRUCTURAL STEEL PAINT ALL STRUCTURAL STEEL WITH SYSTEM OZEU PER CMS 708.02. THE FINISH COAT SHALL BE FEDERAL COLOR FS595C 14223 (GREEN).

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN: THE QUANTITY GIVEN IN THE ESTIMATED QUANTITY TABLE HAS BEEN ESTIMATED FROM FIELD INSPECTION AND ORIGINAL PLANS. THE ACTUAL AREA OF PATCHING SHALL BE DETERMINED BY THE FIELD ENGINEER. PAYMENT SHALL BE MADE PER SQ. FT. AT THE PRICE BID FOR THE ACTUAL AREA PATCHED AND SHALL INCLUDE ALL COST FOR LABOR, MATERIALS AND EQUIPMENT.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WTIH CONTAINMENT, OR VACUUM BLASTING.

REMOVE THE FORMS WITHIN 24 HOURS AFTER PLACING CONCRETE AND FINISH ALL EXPOSED SURFACES BY RUBBING TO MATCH THE SURROUNDING SURFACE. APPLY MEMBERANE CURING ACCORDING TO 511.17, METHOD B, IMMEDIATELY AFTER RUBBING THE SURFACES.

AFTER CURING AND BEFORE FINAL ACCEPTANCE, SOUND ALL PATCHED AREAS. REMOVE AND REPLACE ALL UNSOUND OR VISIBLY CRACKED AREAS.

GENERAL NOTES (1 OF 2) HAM-00562-00 650	OVER PADDOCK ROAD	
SFN 3113 DESIGN AGE		-
PHY &	99	
	30ULEVARD 0, 0HI0 45( 2193 .com	1
	4 REMICK BOU PRINGBORO, C H (937)701-2190 ww.cmtengr.com	
	ತಹಿಕ≰ CHECKER DRC	-
REVIE		-
PROJECT ID 1028		
SUBSET	TOTAL 14	-
SHEET	T4 FOTAL	1
3	15	

### **GENERAL NOTES (CONT.):**

### ITEM 625 - REMOVE AND RE-ERECT EXISTING LIGHT POLE, AS PER PLAN

AS PER PLAN THIS ITEM WILL INCLUDE DISCONNECTING EXISTING POWER SERVICE FROM LIGHTS, REMOVAL AND STORAGE OF EXISTING POLES AND LUMINAIRES, RE-ERECTING POLES AND LUMINAIRES, CONNECTION TO EXISTING STRUCTURE GROUNDING SYSTEM AND RECONNECTION OF POWER SERVICE.

POWER LINE WORK SHALL BE COORDINATED WITH DUKE ENERGY.

ANCHORS INSTALLED IN PILASTERS SHALL BE DONE IN ACCORDANCE WITH SCD HL-20.14 WITH BOLT SIZE AND PATTERN TO MATCH EXISTING POLE BASE.

PAYMENT FOR ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO REMOVE AND RE-ERECT POLES SHALL BE INCLUDED IN THE PER UNIT PRICE FOR ITEM 625 - REMOVE AND RE-ERECT EXISTING LIGHT POLES, AS PER PLAN.

ITEM 519 - SPECIAL - CONCRETE REPAIR BY EPOXY INJECTION INCLUDING SURFACE PREPARATION THE QUANTITY GIVEN IN THE ESTIMATED QUANTITY TABLE HAS BEEN ESTIMATED FROM FIELD INSPECTIONS. THE ACTUAL QUANTITY OF CRACK REPAIRS SHALL BE DETERMINED BE THE FIELD ENGINEER.

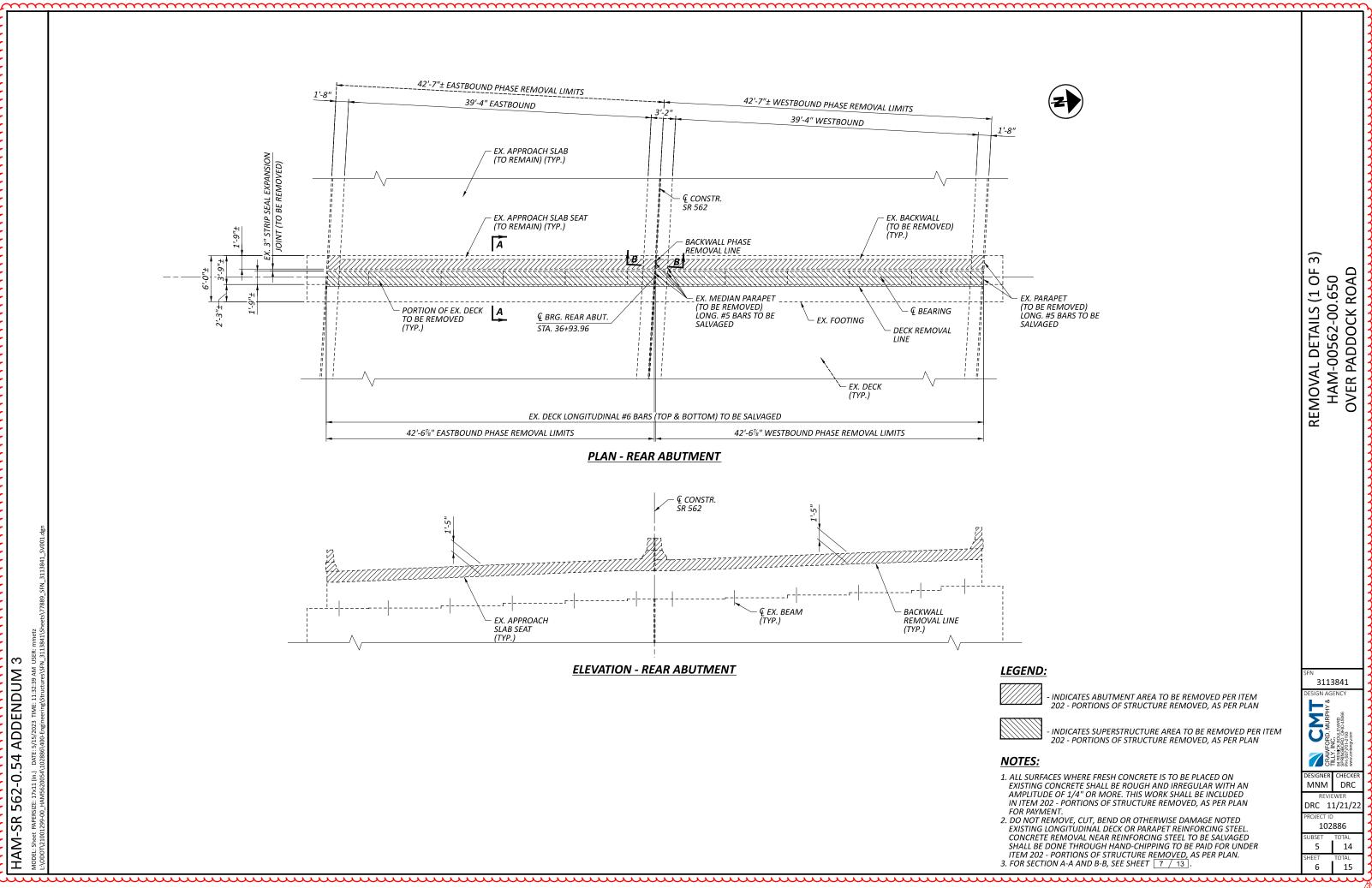
ANTICIPATED CRACK REPAIR LOCATIONS INCLUDE REAR ABUTMENT STEM AND BACKWALL IN BAYS 2, 3, 4 AND 7, AND FORWARD ABUTMENT STEM AT THE WIDENING JOINT.

PAYMENT SHALL BE MADE PER LINEAR FOOT AT THE PRICE BID FOR THE ACTUAL QUANTITY REPAIRED AND SHALL INCLUDE ALL COST FOR LABOR, MATERIALS AND EQUIPMENT.

### **ABBREVIATIONS** ABUT. - ABUTMENT APPROX. - APPROXIMATELY BOTT. - BOTTOM BRG. - BEARING BTW. - BETWEEN C.I.P. - CAST-IN-PLACE C.J. - CONSTRUCTION JOINT C.J.- CONSTRUCTION JOIN C/C - CENTER TO CENTER CLR.- CLEARANCE CONSTR.- CONSTRUCTION DIA.- DIAMETER DWG. - DRAWING E.B. - EASTBOUND E.F. - EACH FACE E.F. - EACH PACE EA. - EACH EL. OR ELEV. - ELEVATION EMB. - EMBEDMENT EQ. - EQUAL EX. - EXISTING EXIST. - EXISTING EXP. - EXPANSION F.A. - FORWARD ABUTMENT F.F. - FAR FACE JT. - JOINT M.S.C. - MICROSILICA MODIFIED CONCRETE MAX. - MAXIMUM MID. - MIDDLE MIN. - MINIMUM N.F. - NEAR FACE N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE NO. - NUMBER P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE P.E.J.F. - PREFORMED EXPANSION JOINT FILLER PCB - PORTABLE CONCRETE BARRIER R.A. - REAR ABUTMENT REQ'D. - REQUIRED SPA. - SPACE(D) OR SPACING SQ. - SQUARE STA. - STATION STD. DWG. OR SCD - STANDARD CONSTRUCTION DRAWING STR. - STRAIGHT T - TOP T&B - TOP AND BOTTOM T.B.D. - TO BE DETERMINED TEMP - TEMPORARY TYP.L - TYPICAL U.N.O. - UNLESS NOTED OTHERWISE W.B. - WESTBOUND

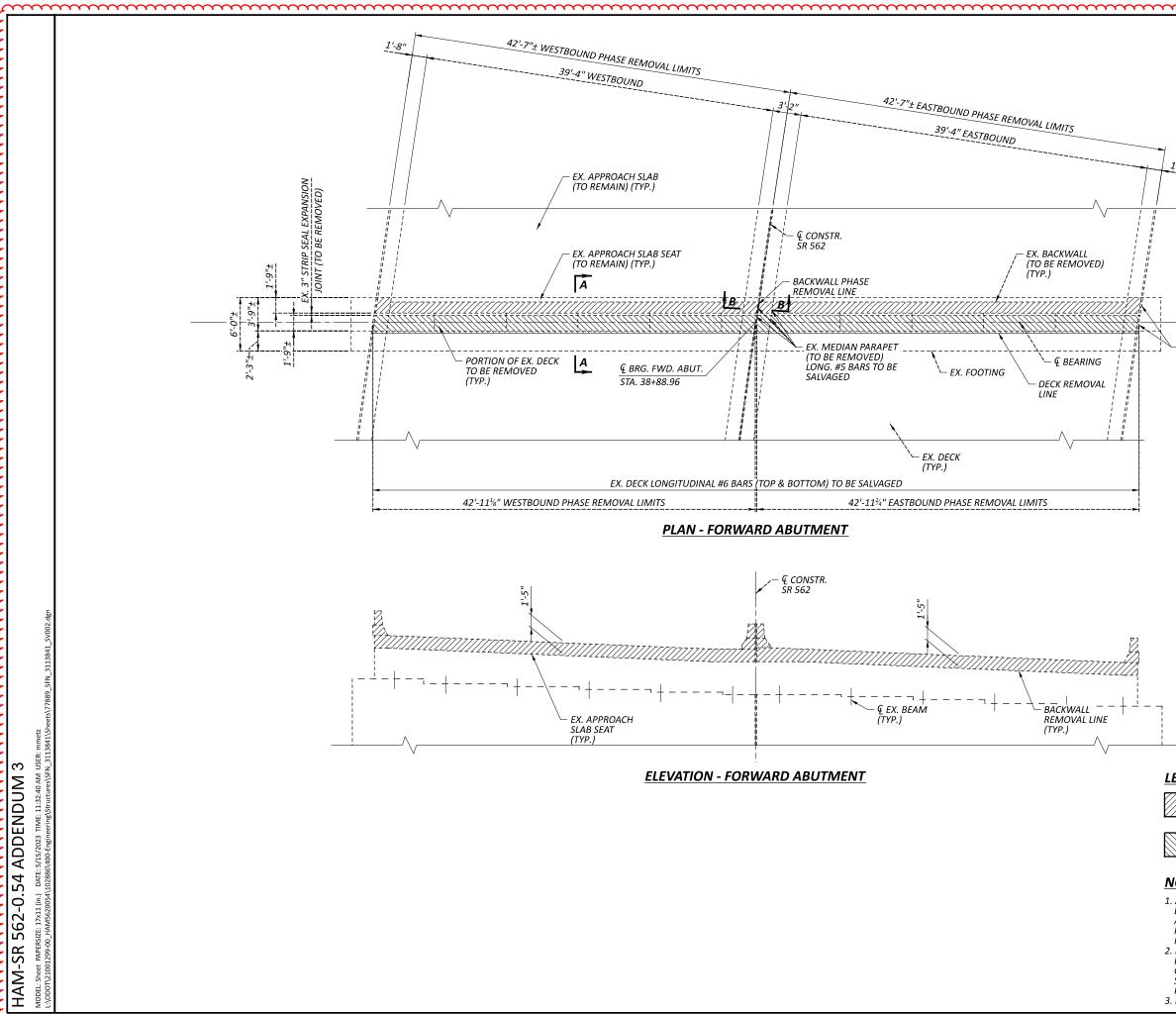
~~~~	<u>}</u>
GENERAL NOTES (2 OF 2) HAM-00562-00.650	
MNM REVIEW DRC 11/ PROJECT ID 10288 SUBSET TO 3	ICY Segar Children Constrained Segar Children Constrained Segar Children Constrained Segar Children Constrained HECKER DRC 1/21/22

	ADE BY: DMJ KED BY: DRC		E: 11/21/2022 E: 11/21/2022						STRUCTURE FILI	E NUMBER: 3113841
ITEM	EXT.	TOTAL 02/NHS/BR	UNIT	DESCRIPTION	ABUT REAR	MENTS FWD.	PIERS	SUPER.	GENERAL	REF. SHEET
202	11201	LUMP	LS	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN					LUMP	2/13
500	05004	0.500	1.0			07		0.400		0 (42
509 509	25001 20001	2,593 400	LB LB	UNCOATED STEEL REINFORCEMENT, AS PER PLAN CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	96 100	97 100		2400 200		2/13 2/13
511 511	34410 34448	10 4	CY CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)				10		
511	45710	12	CY	CLASS QC1 CONCRETE, ABUTMENT	6	6				
512	10101	897	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	58	58		781		2/13
512	73500	1,883	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN		00		1883		2713
512	74000	897	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	58	58		781		
513	10201	6,980	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN				6980		2/13
514	00050	25,574	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				25574		
514	00056	26,803	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				26803		
514	00060	26,803	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				26803		
514	00066	26,803	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				26803		
514	00504	40	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				40		
514	10000	23	EACH	FINAL INSPECTION REPAIR				23		
540	44044	470	CT.					470		3/13
516 516	11211 44201	170 24	FT EACH	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING 13"x12"x3.128", LOAD PLATE 14"x13"x1.5)	12	12		170		3/13
516	47001	LUMP	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN					LUMP	2/13
519	11101	6	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN			6			3/13
519	12300	9		PATCHING CONCRETE BRIDGE DECK - TYPE B					9	
519	12610	20	FT	SPECIAL - CONCRETE REPAIR BY EPOXY INJECTION INCLUDING SURFACE PREPARATION	10	10				3/13
625	35011	1	EACH	REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN					1	3/13



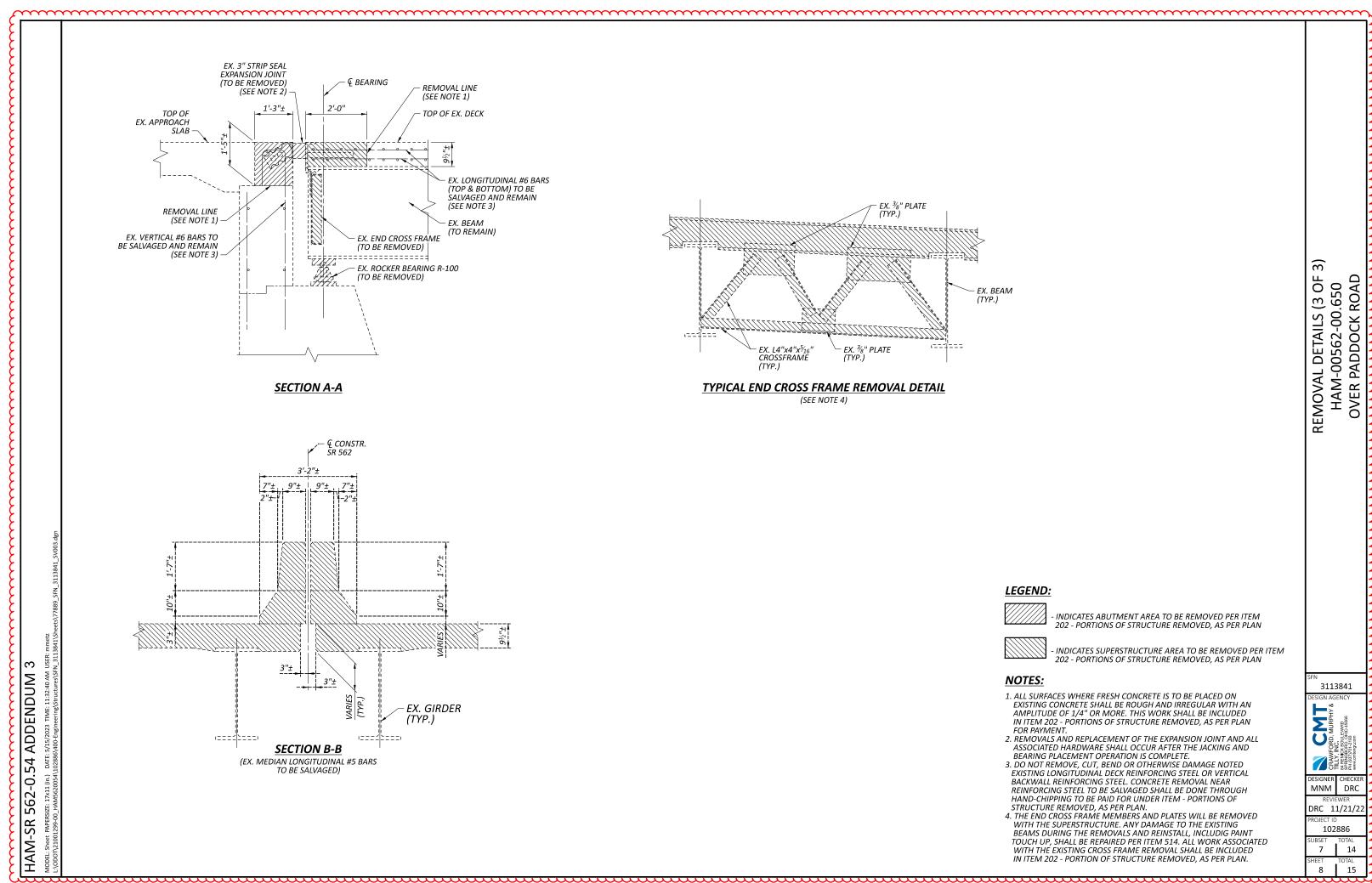


total 15	TOTAL 14	02886	VIEWER 11/21/2	ER CHECKE	CRAW TILLY, 84 REMIC SPRINGE PH (937)7 www.cmte	FORD, INC 2K BOULE 30R0, 0H 701-2193 angr com	MURPHY VARD 0 45066	AGENCY	.13841													_	HA VE	R P/	056 DD(	2-0( 0CK	HAM-00562-00.650 OVER PADDOCK ROAD	0 AD										
]{	13		2	₹	3	3	3	11	13	3	3	3	1	K	3	3	3	3	3	3	3	}	3	3	3	3	3	3	13	3	3		3	3	3	3	3	$\tilde{\mathbf{r}}$

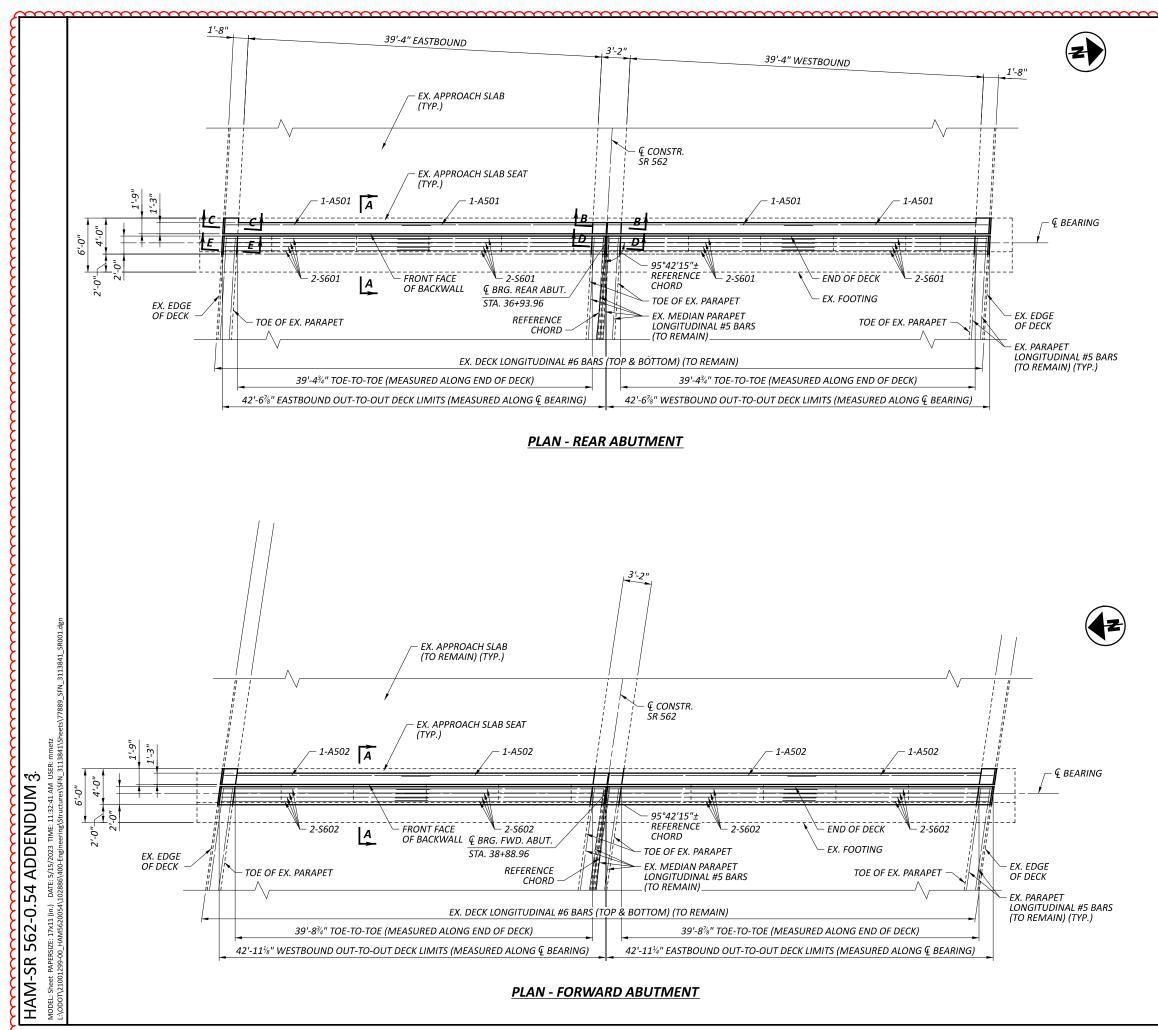


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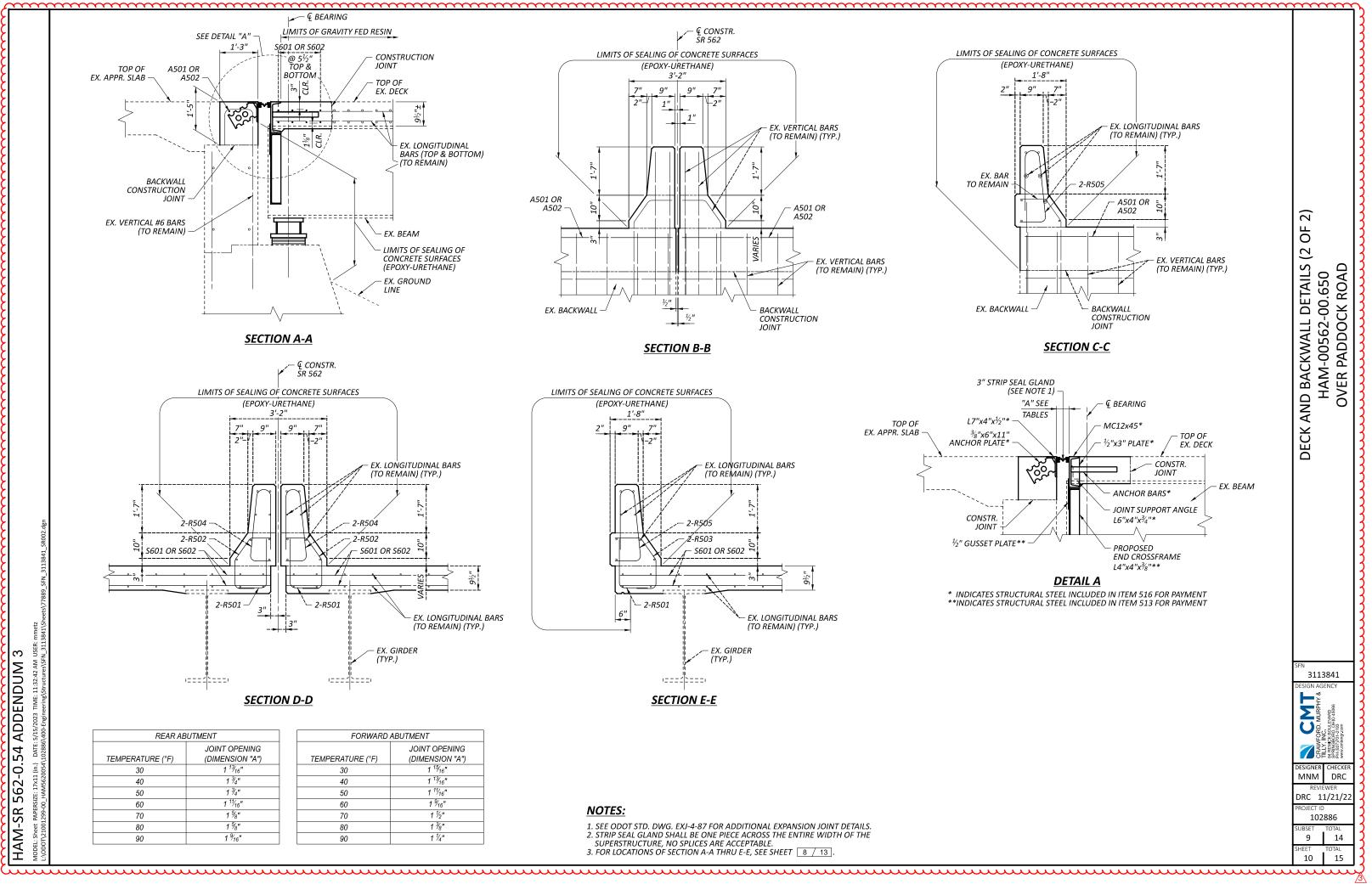
		Ъ
L'er	REMOVAL DETAILS (2 OF 3) HAM-00562-00.650 OVER PADDOCK ROAD	
LEGEND:	SFN 3113841	3
- INDICATES ABUTMENT AREA TO BE REMOVED PER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	DESIGN AGENCY	1
- INDICATES SUPERSTRUCTURE AREA TO BE REMOVED PER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	CRAWFORD, ML CRAWFORD, ML TILLY, NC FRIENCS BOULEVAN SPRINCE BOULEVAN FRIENCS BOULEVAN FRIENCS BOULEVAN FRIENCS CONTO WWW.conteng.com	
L ALL SURFACES WHERE FRESH CONCRETE IS TO BE PLACED ON EXISTING CONCRETE SHALL BE ROUGH AND IRREGULAR WITH AN	DESIGNER CHECKER	3
AMPLITUDE OF 1/4" OR MORE. THIS WORK SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	REVIEWER DRC 11/21/22	3
FOR PAYMENT. 2. DO NOT REMOVE, CUT, BEND OR OTHERWISE DAMAGE NOTED EXISTING LONGITUDINAL DECK OR PARAPET REINFORCING STEEL.	PROJECT ID 102886	3
CONCRETE REMOVAL NEAR REINFORCING STEEL TO BE SALVAGED SHALL BE DONE THROUGH HAND-CHIPPING TO BE PAID FOR UNDER	SUBSET TOTAL 6 14	3
ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN. 3. FOR SECTION A-A AND B-B, SEE SHEET 7 / 13.	SHEET TOTAL 7 15	3



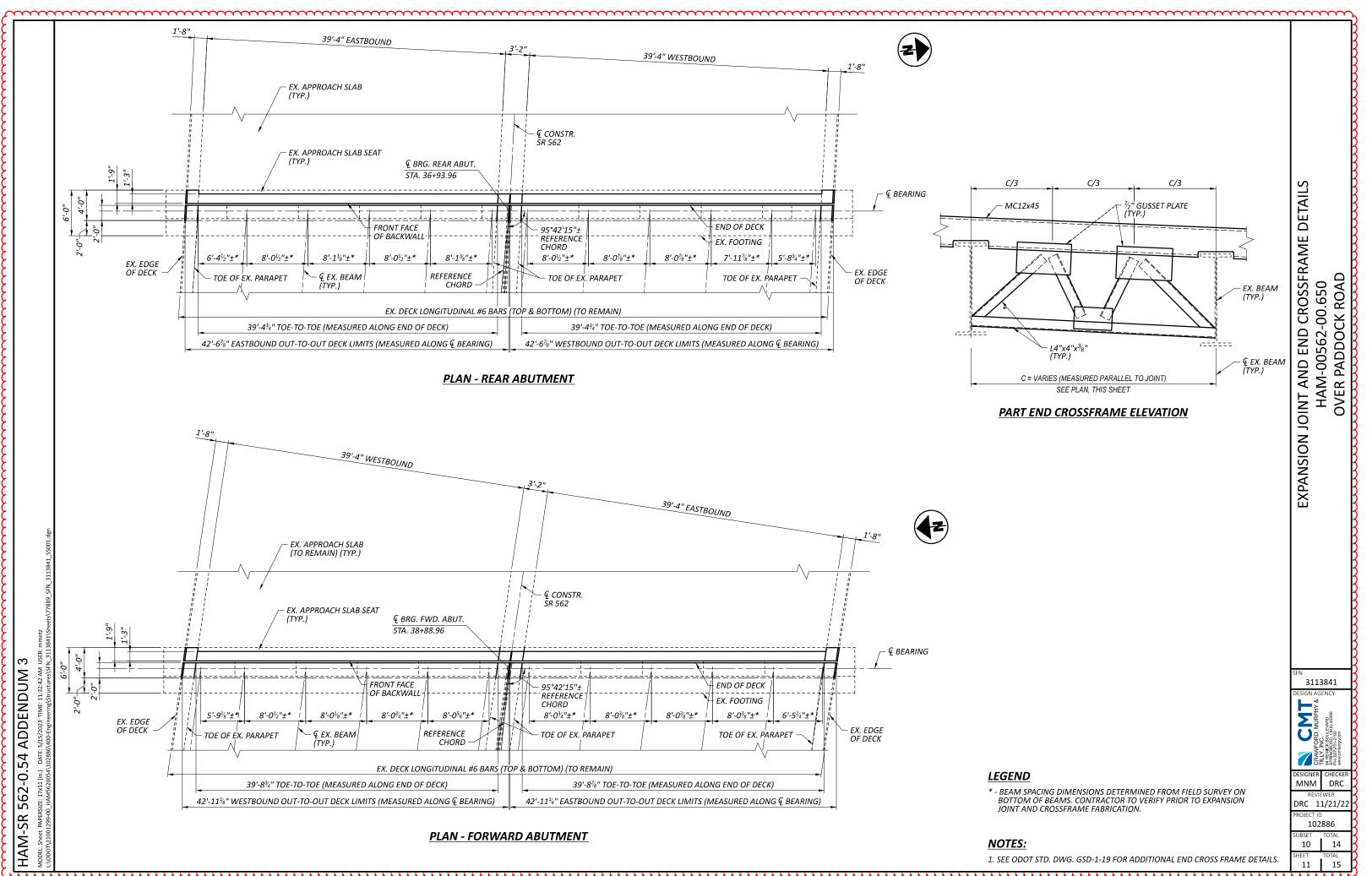
	REMOVAL DETAILS (3 OF 3) HAM-00562-00.650 OVER PADDOCK ROAD
- INDICATES ABUTMENT AREA TO BE REMOVED PER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN - INDICATES SUPERSTRUCTURE AREA TO BE REMOVED PER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN ACES WHERE FRESH CONCRETE IS TO BE PLACED ON CONCRETE SHALL BE ROUGH AND IRREGULAR WITH AN DE OF 1/4" OR MORE. THIS WORK SHALL BE INCLUDED 02 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN IENT. - SAND REPLACEMENT OF THE EXPANSION JOINT AND ALL ED HARDWARE SHALL OCCUR AFTER THE JACKING AND PLACEMENT OPERATION IS COMPLETE. - REIMFORCING STELL. CONCRETE REMOVAL NEAR ING STEEL TO BE SALVAGED SHALL BE DONE THROUGH PPING TO BE PAID FOR UNDER ITEM - PORTIONS OF - SUPERSTRUCTURE. ANY DAMAGE TO THE EXISTING STRUCTURE. ANY DAMAGE TO THE EXISTING JRING THE REMOVALS AND REINSTALL, INCLUDIG PAINT - SYMAME MEMBERS AND PLATES WILL BE REMOVED - SUPERSTRUCTURE. ANY DAMAGE TO THE EXISTING JRING THE REMOVALS AND REINSTALL, INCLUDIG PAINT - S, SHALL BE REPAIRED PER ITEM 514. ALL WORK ASSOCIATED - EXISTING CROSS FRAME REMOVAL SHALL BE INCLUDED 02 - PORTION OF STRUCTURE REMOVAL SHALL BE INCLUDED	SFN 3113841 DESIGN AGENCY SWATHON CONTROL BUILD AGENCY SWATHON CONTROL BUILD AGENCY CONTROL BUILD AGENCY CONTROL

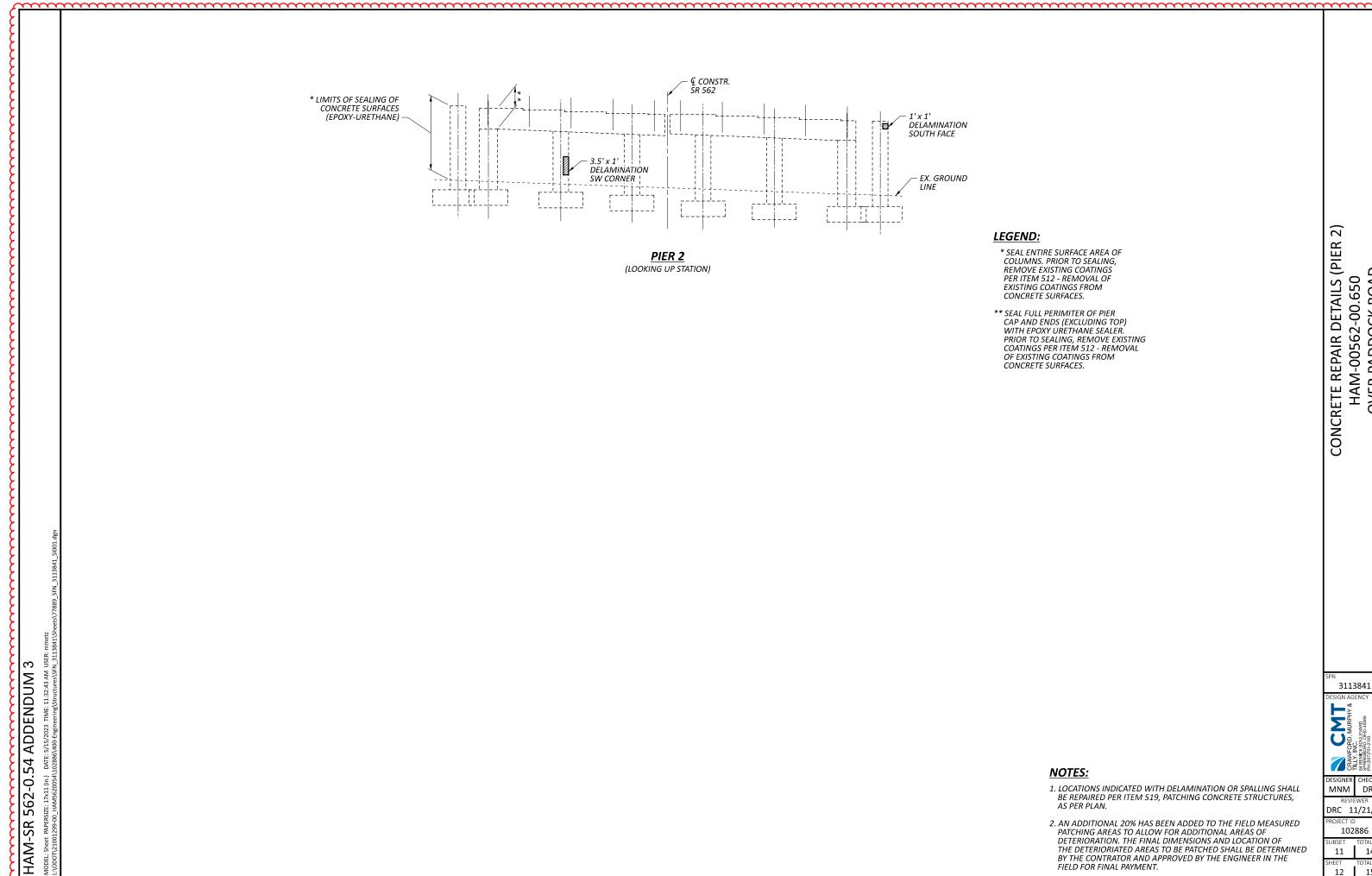


	DECK AND BACKWALL DETAILS (1 OF 2) HAM-00562-00.650 OVER PADDOCK ROAD
LAP SPLICE LENGTHS         NO. 5 BARS       3'-1" MIN.         NO. 6 BARS       3'-7" MIN.         NOTES:         1. FOR SECTIONS A-A THRU E-E, SEE SHEET       9 / 13.	SFN 3113841 DESIGN AGENCY BUDGEN AGENCY BUDGEN BUDG



# HAM-SR 562-0.54 ADDENDUM 3





\* SEAL ENTIRE SURFACE AREA OF COLUMNS. PRIOR TO SEALING, REMOVE EXISTING COATINGS PER ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES.

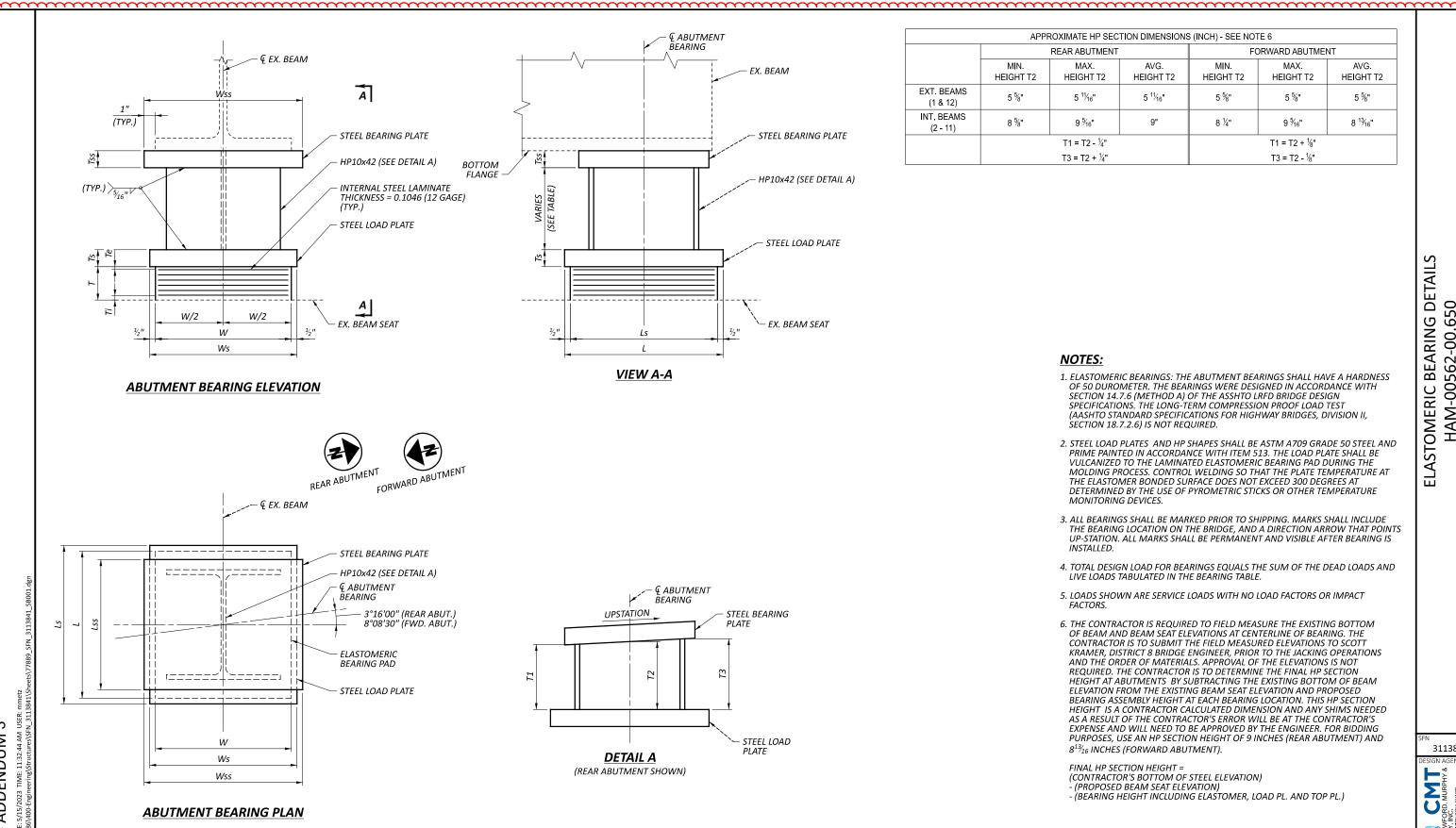
\*\* SEAL FULL PERIMITER OF PIER CAP AND ENDS (EXCLUDING TOP) WITH EPOXY URETHANE SEALER. PRIOR TO SEALING, REMOVE EXISTING COATINGS PER ITEM 512 - REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES.

3 1 USER: mmetz tu J1381/16kmeer/77000 CEN 3113011 0		
54 ADDENDUM	NOTES:	SFN 3113841 DESIGN AGENCY HILLY, NC: WILLARD BEINGRY BOLLARD BEINGRY BOLLARD B
562-0.	1. LOCATIONS INDICATED WITH DELAMINATION OR SPALLING SHALL BE REPAIRED PER ITEM 519, PATCHING CONCRETE STRUCTURES, AS PER PLAN.	DESIGNER CHECKER MNM DRC REVIEWER DRC 11/21/22
HAM-SR MODEL: Sheet PAPER	2. AN ADDITIONAL 20% HAS BEEN ADDED TO THE FIELD MEASURED PATCHING AREAS TO ALLOW FOR ADDITIONAL AREAS OF DETERDITION. THE FIRAL DIMENSIONAL AREAS OF DETERDITION OF FINAL DETERDITION OF THE DETERDINATED AREAS TO BE PATCHED SHALL BE DETERMINED BY THE CONTRATOR AND APPROVED BY THE ENGINEER IN THE FIELD FOR FINAL PAYMENT.	PROJECT ID 102886 SUBSET TOTAL 11 14 SHEET TOTAL 12 15

CONCRETE REPAIR DETAILS (PIER 2) HAM-00562-00.650 OVER PADDOCK ROAD

# NOTES:

- 1. LOCATIONS INDICATED WITH DELAMINATION OR SPALLING SHALL BE REPAIRED PER ITEM 519, PATCHING CONCRETE STRUCTURES, AS PER PLAN.
- 2. AN ADDITIONAL 20% HAS BEEN ADDED TO THE FIELD MEASURED PATCHING AREAS TO ALLOW FOR ADDITIONAL AREAS OF DETERIORATION. THE FINAL DIMENSIONS AND LOCATION OF THE DETERIORIATED AREAS TO BE PATCHED SHALL BE DETERMINED BY THE CONTRATOR AND APPROVED BY THE ENGINEER IN THE FIELD FOR FINAL PAYMENT.



### BEARING DETAIL TABLE SERVICE REACTIONS BEARING LOAD PLATE **BEARING PLATE** LOCATION RLL RTOTAL RDL TYPE No. L (IN) W (IN) Te (IN) Ti (IN) Ν T (IN) H (IN) Ts (IN) Ls (IN) Ws (IN) Tss (IN) Lss (IN) (KIPS) (KIPS) (KIPS) REAR ABUTMENT (BMS. 1 & 12) EXP. 33.6 119.8 153.3 13 12 0.25 0.375 3.128 VARIES 1.5 14 13 1.5 11.5 2 6 REAR ABUTMENT (BMS. 2-11) FXP 33.6 119.8 153.3 10 13 12 0.25 0 375 6 3.128 VARIES 1.5 14 13 1.5 11.5 FORWARD ABUTMENT (BMS. 1 & 12) EXP. 33.6 119.8 153.3 13 12 0.25 0.375 3.128 VARIES 1.5 14 13 1.5 11.5 2 6 FORWARD ABUTMENT (BMS. 2-11) EXP. 33.6 119.8 153.3 10 12 0.25 0.375 3.128 VARIES 1.5 13 1.5 11.5 13 14 6

က 54 ADDENDUM 562-0. HAM-SR

P SEC	TION DIMENSIONS	(INCH) - SEE NO	ΓE 6	
MENT		FC	DRWARD ABUTME	NT
T2	AVG. HEIGHT T2	MIN. HEIGHT T2	MAX. HEIGHT T2	AVG. HEIGHT T2
	5 <sup>11</sup> ⁄ <sub>16</sub> "	5 %"	5 %"	5 %"
	9"	8 ¼"	9 <sup>5</sup> ⁄ <sub>16</sub> "	8 <sup>13</sup> / <sub>16</sub> "
1⁄4"			T1 = T2 + <sup>1</sup> / <sub>8</sub> "	
1⁄4"			T3 = T2 - <sup>1</sup> ⁄ <sub>8</sub> "	

Wss (IN)

18.5

14

18.5

14

1. ELASTOMERIC BEARINGS: THE ABUTMENT BEARINGS SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE ASSHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.

2. STEEL LOAD PLATES AND HP SHAPES SHALL BE ASTM A709 GRADE 50 STEEL AND PRIME PAINTED IN ACCORDANCE WITH ITEM 513. THE LOAD PLATE SHALL BE VULCANIZED TO THE LAMINATED ELASTOMERIC BEARING PAD DURING THE MOLDING PROCESS. CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300 DEGREES AT DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.

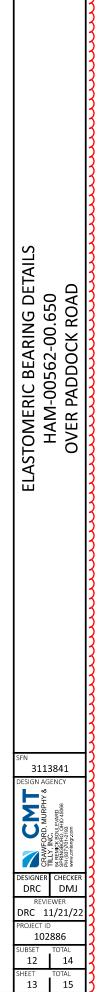
3. ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND VISIBLE AFTER BEARING IS

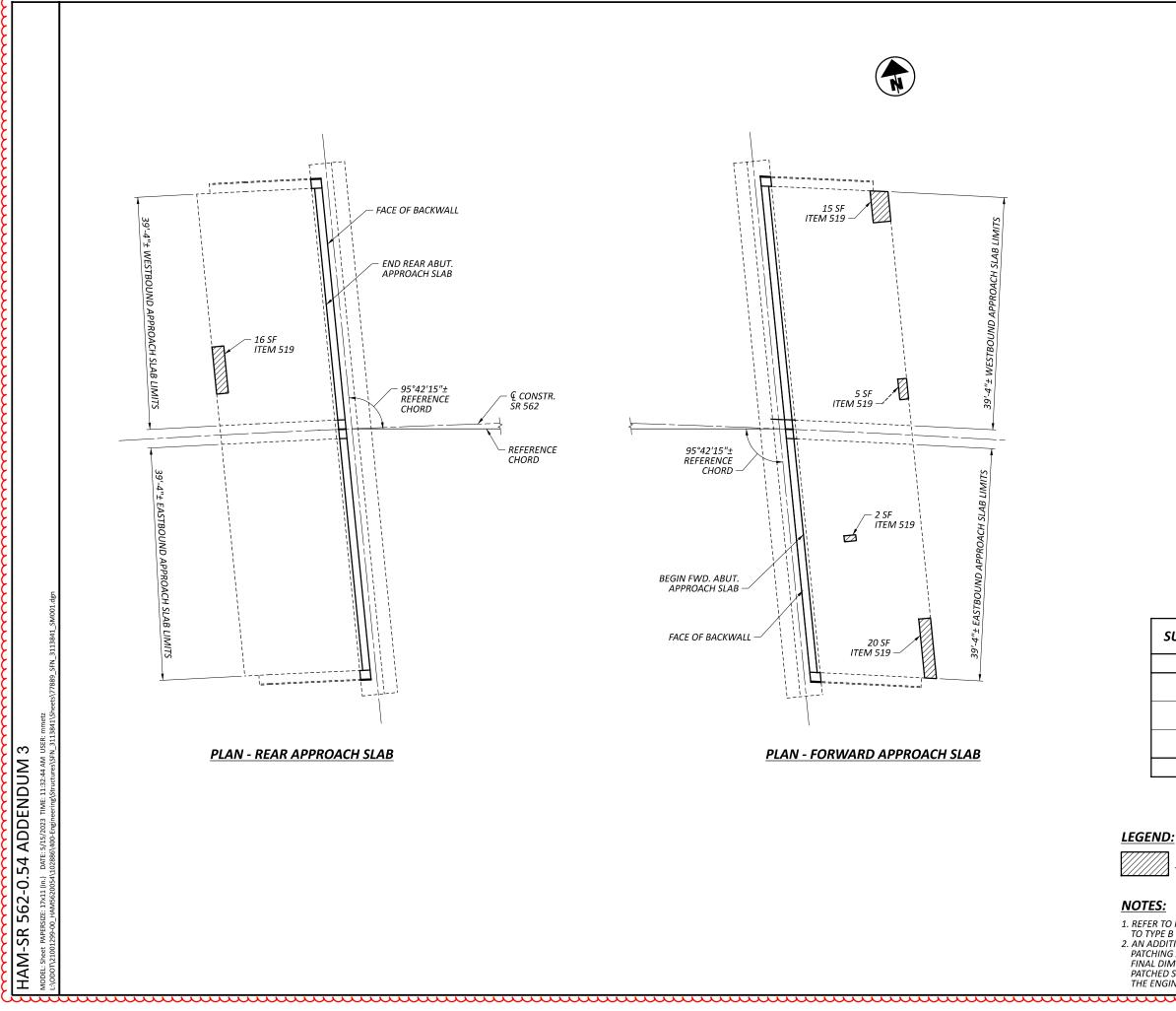
4. TOTAL DESIGN LOAD FOR BEARINGS EQUALS THE SUM OF THE DEAD LOADS AND LIVE LOADS TABULATED IN THE BEARING TABLE.

5. LOADS SHOWN ARE SERVICE LOADS WITH NO LOAD FACTORS OR IMPACT

6. THE CONTRACTOR IS REQUIRED TO FIELD MEASURE THE EXISTING BOTTOM OF BEAM AND BEAM SEAT ELEVATIONS AT CENTERLINE OF BEARING. THE CONTRACTOR IS TO SUBMIT THE FIELD MEASURED ELEVATIONS TO SCOTT KRAMER, DISTRICT 8 BRIDGE ENGINEER, PRIOR TO THE JACKING OPERATIONS AND THE ORDER OF MATERIALS. APPROVAL OF THE ELEVATIONS IS NOT REQUIRED. THE CONTRACTOR IS TO DETERMINE THE FINAL HP SECTION HEIGHT AT ABUTMENTS BY SUBTRACTING THE EXISTING BOTTOM OF BEAM ELEVATION FROM THE EXISTING BEAM SEAT ELEVATION AND PROPOSED BEARING ASSEMBLY HEIGHT AT EACH BEARING LOCATION. THIS HP SECTION HEIGHT IS A CONTRACTOR CALCULATED DIMENSION AND ANY SHIMS NEEDED AS A RESULT OF THE CONTRACTOR'S ERROR WILL BE AT THE CONTRACTOR'S EXPENSE AND WILL NEED TO BE APPROVED BY THE ENGINEER. FOR BIDDING PURPOSES, USE AN HP SECTION HEIGHT OF 9 INCHES (REAR ABUTMENT) AND 8<sup>13</sup>/<sub>16</sub> INCHES (FORWARD ABUTMENT).

FINAL HP SECTION HEIGHT = (CONTRACTOR'S BOTTOM OF STEEL ELEVATION) . - (PROPOSED BEAM SEAT ELEVATION) (BEARING HEIGHT INCLUDING ELASTOMER, LOAD PL. AND TOP PL.)





	APPROACH SLAB REPAIR DETAILS HAM-00562-00.650 OVER PADDOCK ROAD
NG AREAS ITEM 519 QUANTITY (SY)	
4 3	
2 9	SFN 3113841 DESIGN AGENCY
CHED PER ITEM BRIDGE DECKS, TYPE B	Designer MNM REVIEWER REVIEWER
DITIONAL REQUIREMENTS RELATED S BEEN ADDED TO THE FIELD MEASURED IONAL AREAS OF DETERIORATION. THE THE DETERIORATED AREAS TO BE CONTRACTOR AND APPROVED BY PAYMENT.	DRC         11/21/22           PROJECT ID         102886           SUBSET         TOTAL           13         14           SHEET         TOTAL           14         15

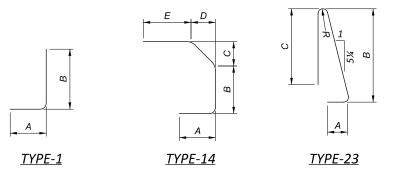
# SUMMARY OF PATCHIN

LOCATION	QUANTITY (SY)
WESTBOUND APPROACH SLABS	4
EASTBOUND APPROACH SLABS	3
AS DIRECTED BY THE ENGINEER (20%)	2
TOTAL	9

- INDICATES AREAS TO BE PATCH 519 - PATCHING CONCRETE BR

 REFER TO PROPOSAL NOTE 512 FOR ADDI TO TYPE B PATCHING.
 AN ADDITIONAL 20% CONTINGENCY HAS PATCHING AREAS TO ALLOW FOR ADDITIO FINAL DIMENSIONS AND LOCATION OF TH DIMENSIONS AND LOCATION OF TH PATCHED SHALL BE DETERMINED BY THE THE ENGINEER IN THE FIELD FOR FINAL PAYMENT.

MARK         LENGTH         WEIGHT	E R	
Norm         A         B         C         D         E           A         B         C         D         E	E R	
A501     4     22'-8"     95     STR.     Image: Constraint of the stress of the		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		<u> </u>
No.02     No.02     No.02     No.02     No.02     No.02     No.02       SUB-TOTAL     190     190     SILAB     Image: Subscript of the stress of the str		<u> </u>
SLAB         S601       32       22'-9"       1094       STR.       Image: STR.       I		<u> </u>
SLAB         S601       32       22'-9"       1094       STR.       Image: STR.       I		
S601       32       22'-9"       1094       STR.       Image: Stress of the stre		
S602     32     22'-11"     1102     STR.     Image: STR.       SUB-TOTAL     2196     Image: SUB-TOTAL     2196       RAILING       RS01 16 2'-6" 42 1 11" 1'-8"       R502     8     3'-0"     25     14     7"     11 <sup>1</sup> / <sub>2</sub> "     8 <sup>1</sup> / <sub>2</sub> "     6"     8	1	
S602     32     22'-11"     1102     STR.     Image: STR.       SUB-TOTAL     2196     Image: SUB-TOTAL     2196       RAILING       RS01 16 2'-6" 42 1 11" 1'-8"       R502     8     3'-0"     25     14     7"     11 <sup>1</sup> / <sub>2</sub> "     8 <sup>1</sup> / <sub>2</sub> "     6"     8		
RAILING           R501         16         2'-6"         42         1         11"         1'-8"         1000000000000000000000000000000000000		-
RAILING           R501         16         2'-6"         42         1         11"         1'-8"         1000000000000000000000000000000000000		-
R501         16         2'-6"         42         1         11"         1'-8"            R502         8         3'-0"         25         14         7"         11 <sup>1</sup> / <sub>2</sub> "         8 <sup>1</sup> / <sub>2</sub> "         6"         8		_
R502         8         3'-0"         25         14         7" $11\frac{1}{2}$ " $8\frac{1}{2}$ "         6"         8		
R502         8         3'-0"         25         14         7" $11\frac{1}{2}$ " $8\frac{1}{2}$ "         6"         8		
	,,	_
		<u> </u>
R503         8         3'-2"         26         14         7" $11\frac{1}{2}$ " $8\frac{1}{2}$ "         6"         10		_
R504 8 4'-7" 38 23 8" 2'-4" 2'-0"	2 <sup>1</sup> ⁄ <sub>8</sub> "	_
R505 8 4'-9" 40 23 10" 2'-4" 2'-0"	2 <sup>1</sup> ⁄ <sub>8</sub> "	
SUB-TOTAL 171		



MARK	NUMBER		WEIGHT	TYPE			D	IME	NSIONS					
	TOTAL				A	В	С		D	Ε	R	INC		
					BUTM	1ENTS								
A501 A502	4 4	22'-8" 22'-9"		STR. STR.										
	S	UB-TOTAL	190										<u>TYPE-1</u> <u>TYPE-14</u> <u>TYPE-23</u>	
					SLA	B								
\$601 \$602	32 32	22'-9" 22'-11"		STR. STR.										
	S	SUB-TOTAL	2196											
					RAILI									ST
R501 R502	16 8	2'-6" 3'-0"	42 25	14		1'-8" 11½"	8½"	_		8"				REINFORCING STEEL LIST
R503 R504 R505	8 8 8	3'-2" 4'-7" 4'-9"	26 38 40		7" 8" 10"	11 <sup>1</sup> ⁄ <sub>2</sub> " 2'-4" 2'-4"	8 <sup>1</sup> / <sub>2</sub> " 2'-0" 2'-0"		6"	10"	2 <sup>1</sup> / <sub>8</sub> " 2 <sup>1</sup> / <sub>8</sub> "			STEE
		UB-TOTAL		25	10	2 -4	2-0				278			
L				1										RCI
														REIL
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