

DESIGN	DATA
--------	------

AVERAGE DAILY TRAFFIC 20<u>20</u> AVERAGE DAILY TRAFFIC 20<u>40</u> PERCENT OF TRUCKS DESIGN SPEED LENGTH OF PROJECT

13000 VPD 16000 VPD 8.0% 30 MPH 702 FT



THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL:

DIRECTOR OF PROJECT DEVELOPMENT

APPROVED:

ASSISTANT COMMISSIONER AND CHIEF ENGINEER DATE FEDERAL PROJECT NO. X-A004(799)

ROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
4(799)	42277	1	31

	INDEX OF SHEETS		
SHEET NO.	DESCRIPTION		
1	TITLE SHEET		
2	INDEX OF SHEETS & GENERAL NOTES	$\bigcup$	I
3-4 5	STANDARD SYMBOLS 1-2		
С	PAVEMENT MATCH AND CURB DETAILS	_	
	BRIDGE PLANS	(2)	
6	GENERAL PLAN AND ELEVATION	$\bigcirc$	
7	PROJECT NOTES		
8	SUMMARY OF QUANTITIES		
9-10	DECK PHASING 1-2		
11	ABUTMENT B - STUBWALL SECTIONS	_	
12-14	ABUTMENT B - STUBWALL PHASING 1-3	(3)	
15-16	ABUTMENT B - STUBWALL REINFORCEMENT 1-2	$\bigcirc$	
17	DECK REINFORCING - PIER 1		
18-20	FINGER JOINT EXPANSION JOINT DETAILS 1-3		
21	STRIP SEAL EXPANSION JOINT SIDEWALK PLATE DETAILS	(1)	
22 23	REINFORCING SCHEDULE		
24	ALUMINUM BRIDGE RAIL (3-BAR)		
<u> </u>			
	TRAFFIC CONTROL PLANS	(5)	
25-26	TRAFFIC CONTROL 1-2	$(\mathbf{j})$	
27	TEMPORARY SIGNAL PLAN		
28-29	SIGN TEXT LAYOUT 1-2		
30-31	DETOUR PLAN 1-2		

## GENERAL NOTES

- STANDARD PLANS, SEE DEPARTMENT OF TRANSPORTATION WEBSITE WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/ NDARDPLANS/INDEX.HTM.
- TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED DUGHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS RUNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN REGULAR POLES. THE CONTRACTOR IS ADVISED THAT REME CAUTION WILL BE REQUIRED IN THE OPERATION OF IPMENT, ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.
- IFY SUPERELEVATION ON EXISTING CURVES BY THE USE OF A ELING COURSE TO THE RATES INDICATED ON THE PLANS AS ORDERED.
- STING DELINEATORS AND WITNESS MARKERS THAT ARE REMOVED AND ERMINED BY THE ENGINEER TO BE IN ACCEPTABLE CONDITION SHALL RESET (SUBSIDIARY). ADDITIONAL DELINEATORS AND WITNESS KERS ORDERED WILL BE PAID UNDER THE APPROPRIATE ITEMS OF CONTRACT.
- EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED HOUT FIRST MAKING PROVISIONS FOR RELOCATION.

- (7)
- (9)

	THE FOLLOWING GENERAL NOTES WILL BE USED ON THIS PROJECT:									
	2	$\bigcirc$	$\bigcirc$	5	6	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

6 PERFORM ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER.

REMOVE UNPROTECTED PROJECT MARKERS (SUBSIDIARY).

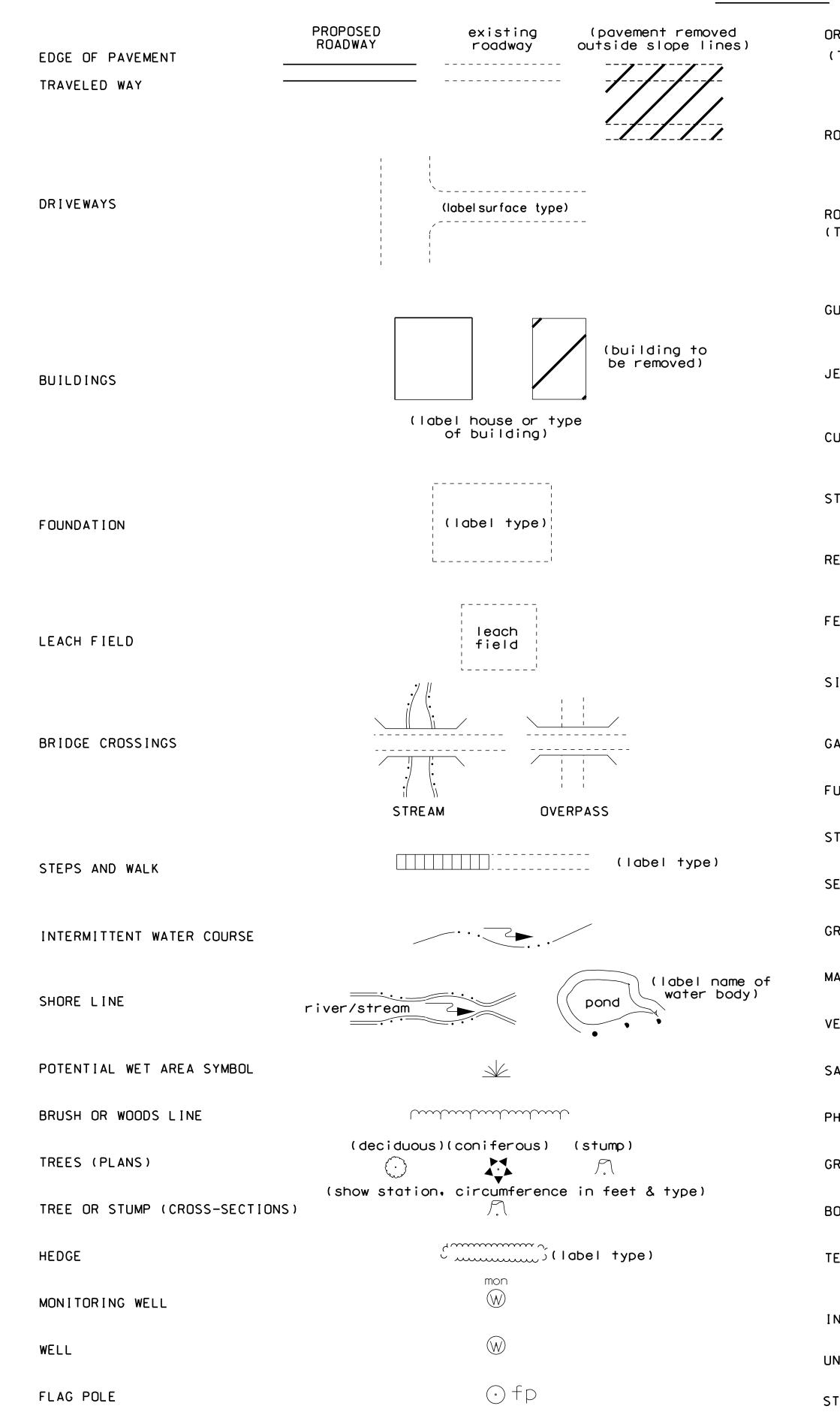
8 SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY SDR AND THE FIELD NOTES CAN BE FOUND IN THE FIELD BOOK(S) \_\_\_\_. COORDINATES ARE NEW HAMPSHIRE STATE PLANE COORDINATES OF NAD83, \_\_\_\_ ADJUSTMENT AND THE BEARINGS ARE GRID. ELEVATIONS ARE REFERENCED TO \_\_\_\_.

QUANTITIES FOR EMBANKMENT AND EXCAVATION FOR SLOPE ROUNDINGS AS SHOWN ON THE TYPICALS HAVE NOT BEEN CALCULATED AND ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, AND ARE CONSIDERED SUBSIDIARY TO THE APPROPRIATE 203 ITEMS.

$\bigcirc$	
$\bigcirc$	

		STA	TE OF NEW HAN	MPSHIRE	
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY D					
Stan	tec		CX OF SHE ENERAL NO		X
REV	ISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
9-	-1-2016	02_Index	42277	2	31

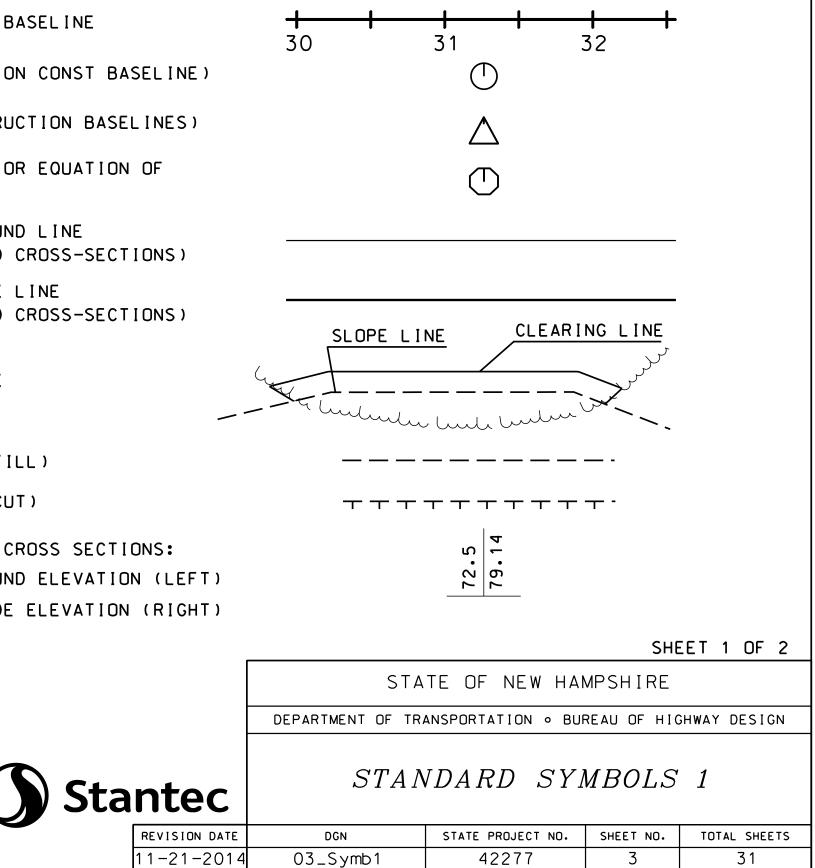
## GENERAL



RIGINAL GROUND	<u>\\$\$\$\$</u> \$\\$ <u>\$</u> \$\$\\$\$\$\$\$		WETLAND DESIGNATION AND TYPE	2 PUB2E
TYPICALS)			DELINEATED WETLAND	- — D W — — — D W — — — D W — -
			ORDINARY HIGH WATER	—————————————————————————————————————
OCK OUTCROP			TOP OF BANK TOP OF BANK & ORDINARY HIGH WATER	—————————————————————————————————————
UCK UUTCRUP			NORMAL HIGH WATER	— — товонш   — товонш   — товонш   — — — — — — — — — — — — — — — — — —
			WIDTH AT BANK FULL	— — — WBF— — — WBF— — — — — — — — — — — — — — — — — — —
OCK LINE			PRIME WETLAND	PWET PWET
TYPICALS & SECTIONS ONLY)	ΨΨΨΨΨΨΨ <i>Ψ</i> Ψ		PRIME WETLAND 100' BUFFER	——————————————————————————————————————
			NON-JURISDICTIONAL DRAINAGE AREA COWARDIN DISTINCTION LINE	NJDANJDA CDLCDL
	existing PROPOSED	_	TIDAL BUFFER ZONE	——————————————————————————————————————
UARDRAIL (label type)	bgr	<b></b>	DEVELOPED TIDAL BUFFER ZONE	——————————————————————————————————————
	<u> </u>		HIGHEST OBSERVABLE TIDE LINE	——————————————————————————————————————
			MEAN HIGH WATER	— — — мнw — — мнw — — — —
ERSEY BARRIER		<u> </u>	MEAN LOW WATER VERNAL POOL	— — MLW— — MLW— — — — — — — — — — — — — — — — — — —
			SPECIAL AQUATIC SITE	SAS SAS SAS
URB (LABEL TYPE)			REFERENCE LINE	——————————————————————————————————————
			WATER FRONT BUFFER	
TONE WALL			NATURAL WOODLAND BUFFER	——————————————————————————————————————
	ooo <b></b>		PROTECTED SHORELAND INVASIVE SPECIES LABEL	- PS250 - PS
ETAINING WALL (LABEL TYPE)	<b></b>	(points toward retained ground)	INVASIVE SPECIES	
ENCE (LABEL TYPE)	//////////-		FLOODPL	AIN / FLOODWAY
	(single post)		500 YEAR FLOODPLAIN BOUNDARY	——————————————————————————————————————
IGNS			100 YEAR FLOODPLAIN BOUNDARY	——————————————————————————————————————
	(double post)		FLOODWAY	— FW— FW— FW— FW—
AS PUMP	• gp		ENGI	NEERING
UEL TANK (ABOVE GROUND)	○ f + (label s	size & type)	CONSTRUCTION BASELINE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
TORAGE TANK FILLER CAP	⊙ fc		PC, PT, POT (ON CONST BASELINE)	
EPTIC TANK	S		PI (IN CONSTRUCTION BASELINES)	$\bigtriangleup$
RAVE			INTERSECTION OR EQUATION OF TWO LINES	$\bigcirc$
RAVE	(·) gr		ORIGINAL GROUND LINE	
IAILBOX	⊡ mb		(PROFILES AND CROSS-SECTIONS) PROFILE GRADE LINE	
ENT PIPE			(PROFILES AND CROSS-SECTIONS)	
	$\odot \vee P$			SLOPE LINE CLEARING LINE
ATELLITE DISH ANTENNA			CLEARING LINE	
			SLOPE LINE	" huden hade buden it
HONE	⊠ ph		SLOPE LINE (FILL)	
ROUND LIGHT/LAMP POST	-⇔ gl -⊖ lp		SLOPE LINE (CUT)	
	Ϋ́Ϋ́Ϋ́Υ		PROFILES AND CROSS SECTIONS:	- 7 7
ORING LOCATION	⊕ <sub>B</sub>		ORIGINAL GROUND ELEVATION (LEFT) FINISHED GRADE ELEVATION (RIGHT)	72.6
EST PIT				SHEET
				STATE OF NEW HAMPSHIRE
NTERSTATE NUMBERED HIGHWAY	293			DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWA
NITED STATES NUMBERED HIGHWAY	3			STANDARD SYMBOLS 1
TATE NUMBERED HIGHWAY	102		<b>Stantec</b>	
TATE NUMBERED FIGHWAT			REVISION DATE 11-21-2014	DGNSTATE PROJECT NO.SHEET NO.TO03_Symb1422773

# SHORELAND - WETLAND





## DRAINAGE



CATCH BASIN

DROP INLET

DRAINAGE PIPE (existing)

DRAINAGE PIPE (PROPOSED)

UNDERDRAIN (existing) W/ FLUSHING BASIN direction

UNDERDRAIN (PROPOSED) of flow -W/ FLUSHING BASIN

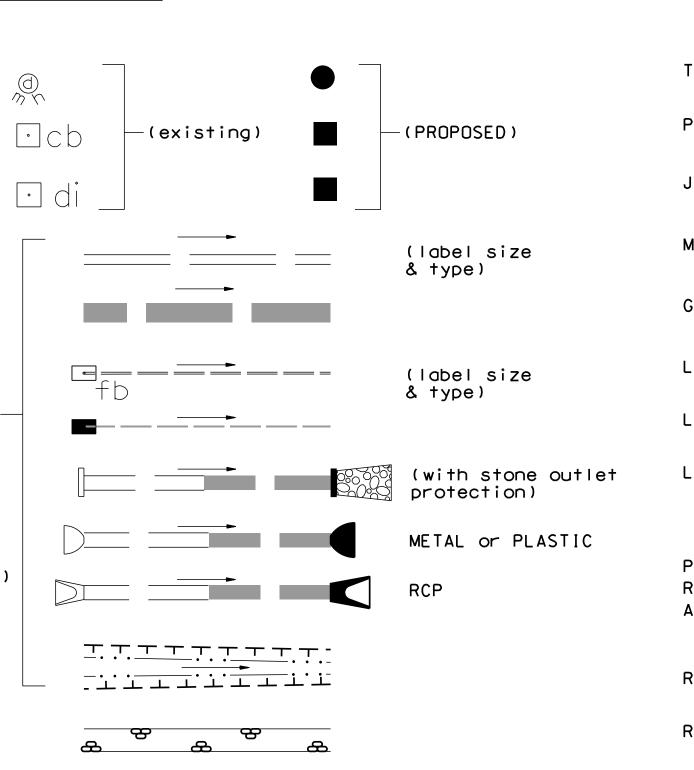
HEADER (existing & PROPOSED)

END SECTION (existing & PROPOSED)

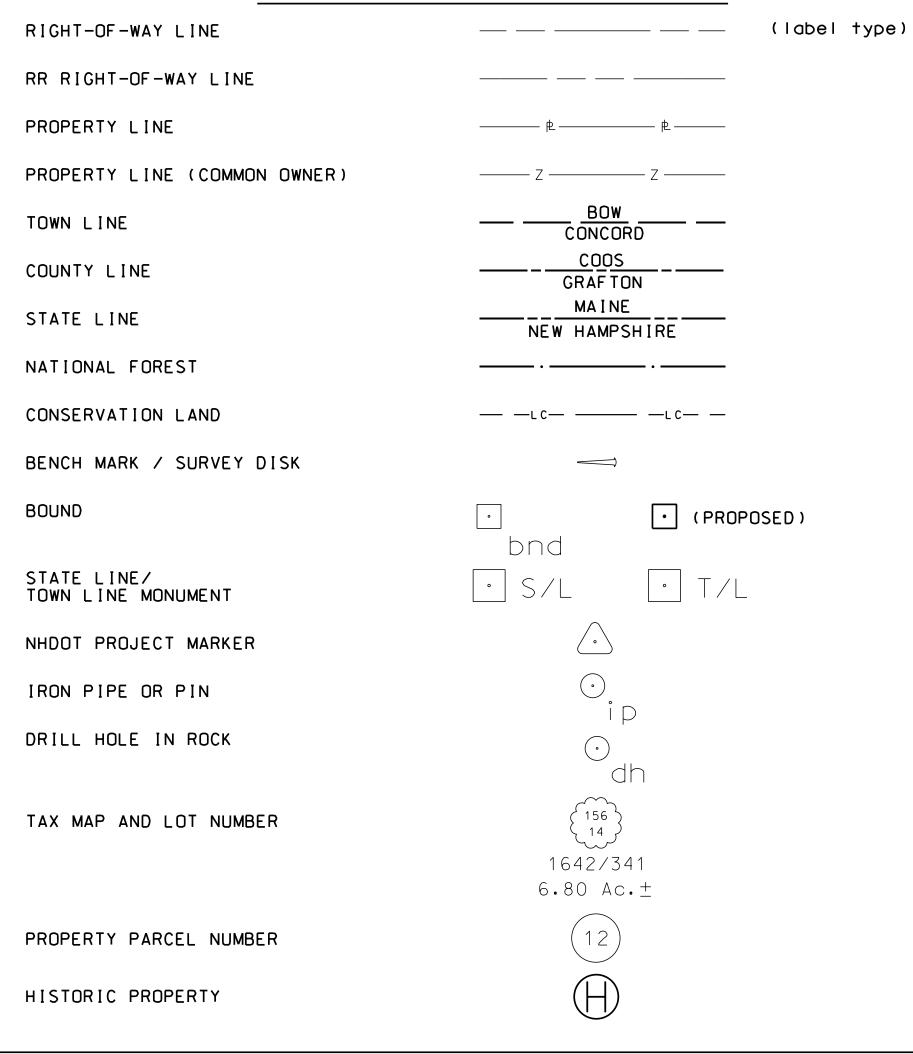
show

OPEN DITCH (PROPOSED)

EROSION CONTROL/ STONE SLOPE PROTECTION

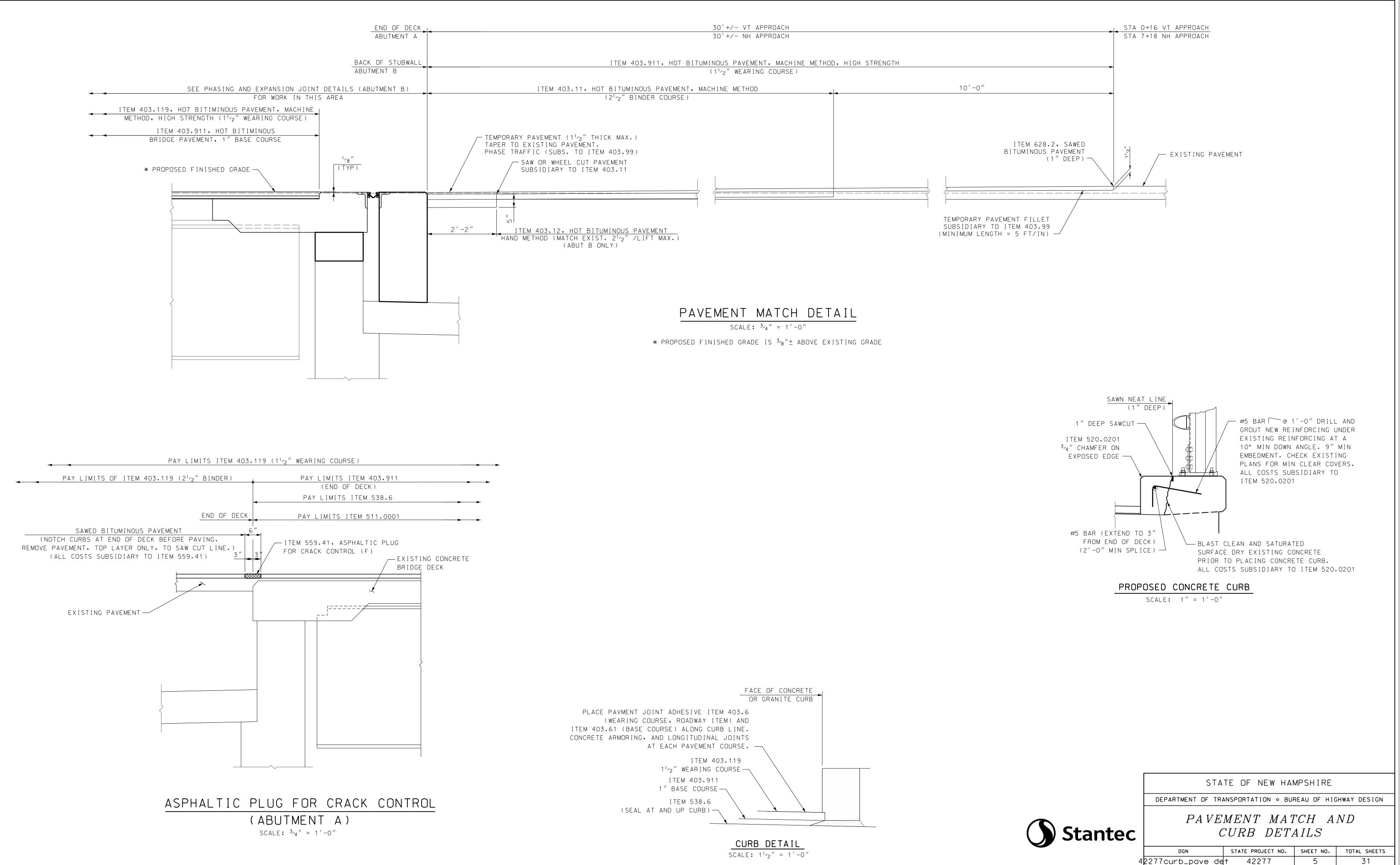


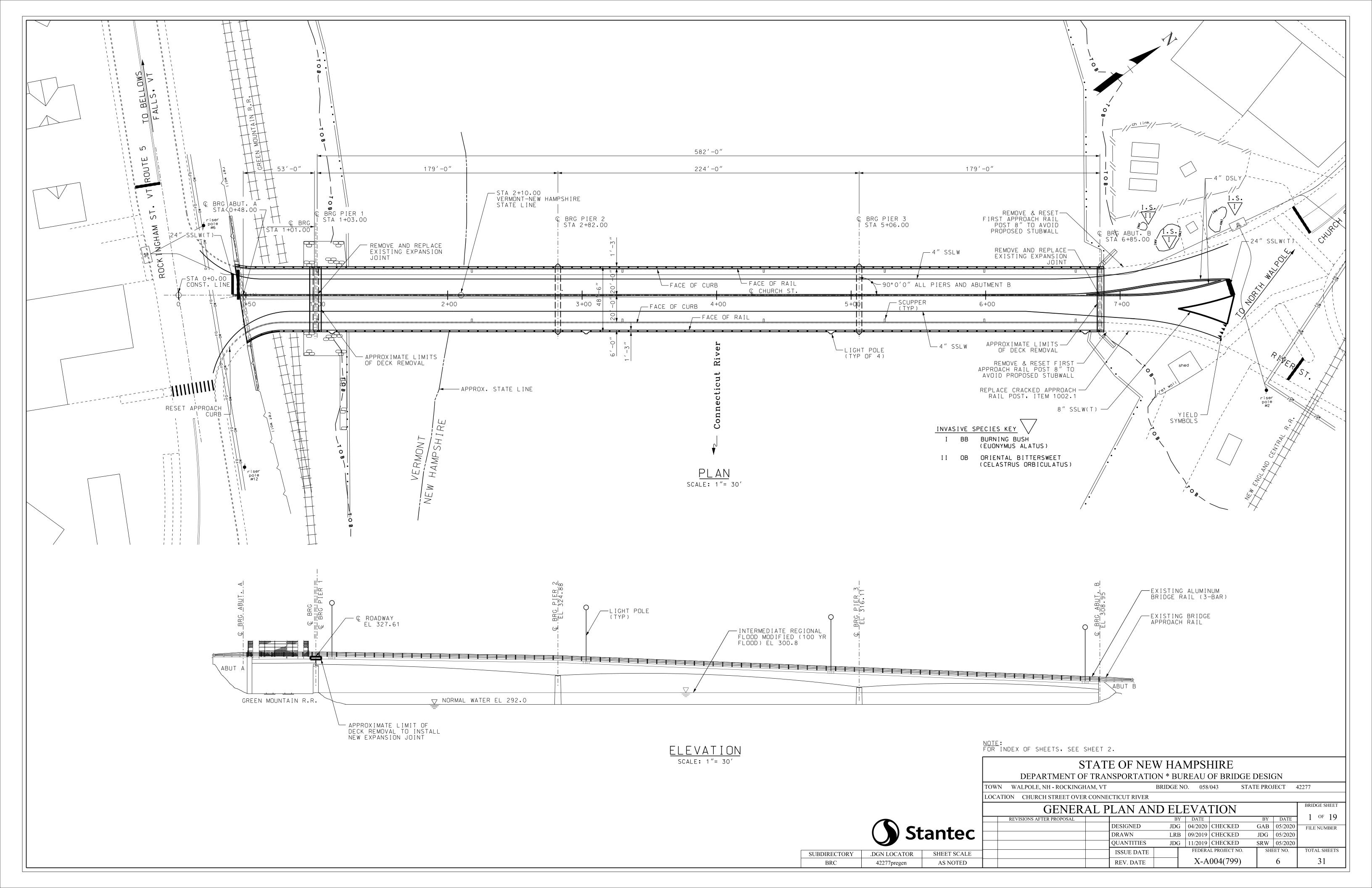
## **BOUNDARIES / RIGHT-OF-WAY**



	UTILITIES	-		
	existing	PROF	POSED	
TELEPHONE POLE	<b>———</b>			
POWER POLE				MAST ARM
JOINT OCCUPANCY		_(plot point at fa not center of sym		OPTICOM
MISCELLANEOUS/UNKNOWN POLE				OPTICOM
				TRAFFIC
GUY POLE OR PUSH BRACE		$\frown$		PEDESTAL HEADS AN
LIGHT POLE		$\nabla$		SIGNAL C
LIGHT ON POWER POLE		$\oplus$		CONTROLL
LIGHT ON JOINT POLE	-Q0	$\oplus$	-0	METER PE
		P+04	T+04	PULL BOX
POLE STATUS: REMOVE, LEAVE, PROPOSED, OR TEMPORARY		25.0'	25.0'	LOOP DET
AS APPLICABLE e.g.:	Τ			LOOP DET
RAILROAD	(label owne	rship)		CAMERA P
RAILROAD SIGN	$\mathbf{i}$	Y	<	FIBER OP
RAILROAD SIGNAL	$\square$		$\bowtie$	FIBER OP
UTILITY JUNCTION BOX	⊠ j∣		JB	ITS EQUI
				VARIABLE
OVERHEAD WIRE	(label ty	OWOW ype)	Ow	DYNAMIC
UNDERGROUND UTILITIES WATER (on existing lines			Pui	ROAD AND
WATER label size, type and note if abandoned)	W	w <b>~ ^w</b>	PW	
SEWER	S	S <b>PS</b>	PS	CURB MAR
TELEPHONE	т	т <b>рт</b>	рт	CURB MAR
ELECTRIC	——— E ————	— E — PE	PE	CLEARING
GAS	G	— G — <b>— PG — — PG</b> — — — — — — — — — — — — — — — — — — —	PG	DRAINAGE
			_	
LIGHTING	L	L PL	PL	EROSION
INTELLIGENT TRANSPORTATION SYSTEM	ITS	ITS		FENCING
FIBER OPTIC	F0	——FO——— <b>PFO</b> ———	PF 0	GUARDRAI
WATER SHUT OFF	WSO O	*		ITS NOTE
GAS SHUT OFF	o So	્ટ્રે	-	LIGHTING
HYDRANT MANHOLES	J.J. Myd			TRAFFIC
SEWER	S M V		мцс	
TELEPHONE	(+)		M H S M H T	
ELECTRICAL			МНЕ	
GAS			MHG	(
UNKNOWN				

TRAFFIC	SIGNALS / ITS
	existing PROPOSED
RM (existing)	(NOTE ANGLE FROM B)
N RECEIVER	
1 STROBE	
SIGNAL	
AL WITH PEDESTRIAN SIGN	
CONDUIT	-ccc
LER CABINET	$\boxtimes$ CC $\boxtimes$ CC
PEDESTAL	⊠mp ⊠MP
x	Dpb DPB
TECTOR (QUADRUPOLE)	(label size)
TECTOR (RECTANGULAR)	(label size)
POLE (CCTV)	8 ₽
PTIC DELINEATOR	⊡fod <b>⊡FOD</b>
PTIC SPLICE VAULT	SVF
JIPMENT CABINET	⊠its ⊠ĬTS
E SPEED LIMIT SIGN	
MESSAGE SIGN	
ID WEATHER INFO SYSTEM	$\checkmark - \bigcirc \qquad \qquad \blacklozenge - \bigcirc$
CONSTRUC	CTION NOTES
RK NUMBER – BITUMINOUS	B-1
RK NUMBER - GRANITE	G-1
IG AND GRUBBING AREA	A
E NOTE	
I CONTROL NOTE	
NOTE	Α
IL NOTE	1
E	
IG NOTE	
SIGNAL NOTE	
Г	SHEET 2 OF 2
_	STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
<b>Stantec</b>	STANDARD SYMBOLS 2
REVISION DATE 9-1-2016	DGN STATE PROJECT NO. SHEET NO. TOTAL SHEETS 04_Symb2 42277 4 31





				—
		SCOPE OF WORK		
	BR. NO. 058/043 CH	URCH STREET OVER CONNECTICUT RIVER	(6)	1
		LACE DECK PAVEMENT AND MEMBRANE		
		LL DEPTH CONCRETE DECK REPAIRS	(7)	l N
		VE AND REPLACE TOPS OF ABUTMENT BACKWALLS SEAL EXPANSION JOINT AT ABUTMENT B		V
		EXPANSION JOINT AT PIER 1 AND REPLACE WITH A FINGER JOINT		Ν
		PPROACH GRANITE CURB	(8)	F
	- REPLACE MISSING - REMOVE EXISTING	G BOLTS IN DIAPHRAGM G LIGHT POLES		C
			(9)	F
			(10)	
	MA	TERIALS AND SPECIFICATIONS		F
(1)	SPECIFICATIONS:	AASHTO BRIDGE CONSTRUCTION SPECIFICATION WITH INTERIMS 2017		ł
		NHDOT 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED		
		WELDING PER AASHTO/AWS D1.5-10 WITH REVISIONS PUBLISHED BY AASHTO AS OF THE BID OPENING DATE.	(11)	(
		GENING DATE.		(
			(12)	/
(2)	REINFORCING STEEL:	AASHTO M31 (ASTM A 615) GRADE 60 EPOXY COATED		ہ ۲
(7)		PARTIAL DEPTH DECK REPAIRS = 4000 PSI		1
(5)	CONCRETE:	ITEM 520.01, CONCRETE CLASS AA	– .	
			(13)	
		FULL DEPTH DECK REPAIRS, CURB SEATS, ABUTMENT AND WINGWALL REPAIRS.		
		= 4.000  PSI		
		ITEM 520.0201, CONCRETE CLASS AA, ABOVE FOOTINGS		_
			(1)	E
		BACKWALL AND DECK RECONSTRUCTION = 4,000 PSI ITEM 520.02, CONCRETE CLASS AA, ABOVE FOOTINGS (F)	(2)	E
		TTEM JZU.UZ, CUNCRETE CLASS AA, ADUVE FUUTINGS (F)		(
				E
		BENCHMARK NOTE		
			(3)	A ۲
		ESENTING STATE BENCHMARKS OR SURVEY TRIANGULATION POINTS MUST THE PROPOSED WORK INVOLVES DISTURBING ONE OF THESE DISCS,		$\langle$
		TIFY THE CONTRACT ADMINISTRATOR SUFFICIENTLY IN ADVANCE OF		1
THE	WORK TO PERMIT THE	STATE TO TEMPORARILY RELOCATE THE AFFECTED MARKER.	(4)	F
				E
		TO THE CONTRACTOR	(5)	F
ТНГ		E AWARE THAT EXISTING STRUCTURE DIMENSIONS AND ELEVATIONS SHOWN ON		1
		FROM ORIGINAL BRIDGE PLANS AND DO NOT NECESSARILY REPRESENT "AS-BUILT"		-
		NS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS	(6)	۲ د
		RES AND BE PREPARED TO MAKE ANY ADJUSTMENTS REQUIRED TO PROPERLY • ANY DISCREPANCIES IN DIMENSIONS• CHARACTER• OR EXTENT OF THE EXISTING		F
		HT TO THE ATTENTION OF THE ENGINEER PRIOR TO ADVANCING THE WORK. THE	(7)	г
		LABLE ON-LINE IN THE BID PACKAGE ON THE INVITATION TO BID WEB PAGE. ARDED, A COMPLETE SET OF EXISTING PLANS WILL BE FORWARDED TO THE		C C
		• THE FILE NUMBER FOR THIS BRIDGE IS 2-13-1-1.		F

### REMOVAL NOTES

- (1) REMOVAL OF EXISTING BRIDGE STRUCTURE, ITEM 502., EXCEPT AS OTHERWISE SHOWN ON THE PLANS SHALL INCLUDE REMOVAL OF THE EXISTING BRIDGE DECK, BRIDGE CURB, AND BACKWALL NEEDED FOR EXPANSION JOINT REPLACEMENT.
- (2) THE CONTRACTOR SHALL SUBMIT, FOR DOCUMENTATION IN ACCORDANCE WITH SECTION 105.02, A DETAILED OUTLINE OR PLAN OF THE PROPOSED METHOD FOR ITEM 502, PRIOR TO COMMENCEMENT OF ANY REMOVAL OF WORK.
- (3) THE EXISTING PAVEMENT AND MEMBRANE, SHALL BE REMOVED UNDER ITEM 511.0001, CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F).

### GENERAL CONSTRUCTION NOTES

- (1) TRAFFIC CHANNELIZING DEVICES, AND TRAFFIC CONTROL MEASURES SHALL BE IN PLACE BEFORE OPERATIONS BEGIN FOR EACH CONSTRUCTION PHASE.
- (2) THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE THAT DEBRIS DOES NOT FALL INTO THE WATERWAY OR ONTO THE RAILROAD TRACKS BELOW EXISTING STRUCTURE. ALL COSTS SHALL BE PAID UNDER ITEM 502, AND SHALL INCLUDE THE ERECTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURES OR OTHER SUCH METHODS AS APPROVED.
- (3) NO SCAFFOLDS SHALL BE ERECTED OR OPERATIONS CONDUCTED IN THE ROADWAY, UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR.
- (4) THE WELDING OF ATTACHMENTS TO STRUCTURAL STEEL FOR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE NHDOT, BUREAU OF BRIDGE DESIGN.
- (5) PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL MAKE A RECORD OF THE EXISTING PAINT PAVEMENT MARKINGS, UPON COMPLETION OF THE BRIDGE WORK, THE PAVEMENT MARKINGS SHALL BE REPLACED IN KIND WITH ITEM 632.0104, RETROREFLECTIVE PAINT PAVE, MARKING, 4" LINE.

## GENERAL CONSTRUCTION NOTES (CONT)

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.

ITEM 538.6, BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F) SHALL BE OVERLAPPED PER MANUFACTURER'S REQUIREMENTS. AT DECK ENDS AND CURB LINES, A SEALANT/REPAIR MASTIC COMPATIBLE WITH ITEM 538.6 SHALL BE PLACED BETWEEN THE NEW MEMBRANE AND THE END DECK OR CURB TO SEAL THE MEMBRANE, ALL COSTS SHALL BE SUBSIDIARY TO ITEM 538.6.

REMOVE ANY EXISTING LOOSE OR FLAKING EPOXY COATING FROM THE BACKWALL AND SEATS AS DIRECTED. COSTS PAID UNDER ITEM 502.

FOR SALVAGE OF MATERIALS SEE PROSECUTION OF WORK.

- ITEM 538.2, BARRIER MEMBRANE, PEEL AND STICK VERTICAL SURFACES (F). 2' WIDE, SHALL BE PLACED CENTERED OVER ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS WITH PROTECTION BOARD (SUBSIDIARY) EXCEPT THAT BARRIER SHALL COVER THE ENTIRE VERTICAL SURFACE OF THE BACK OF BACKWALL TO 1'-O" ONTO THE EXISTING APPROACH SLAB AS SHOWN IN SECTION A-A RECONSTRUCTION SHOWN ON BRIDGE SHEET 6.
- SUPPORT OF EXCAVATION NECESSARY TO COMPLETE WORK SHALL BE SUBSIDIARY TO THE EXCAVATION ITEMS OF WORK.
- APPLY PAVEMENT JOINT ADHESIVE ALONG ALL LONGITUDINAL JOINTS BETWEEN PAVEMENT PASSES AND ALONG BRIDGE CURB LINES AND EXPANSION JOINT ARMORING PRIOR TO PLACING ALL PAVEMENT COURSES. FOR BRIDGE BASE COURSE APPLY ITEM 403.61, PAVEMENT JOINT ADHESIVE (BRIDGE BASE) AND FOR WEARING COURSE APPLY ITEM 403.6, PAVEMENT JOINT ADHESIVE - ROADWAY ITEM.

ITEM 563.8, RESETTING BRIDGE RAIL, SHALL BE PAID AS 1 LF PER POST.

### REINFORCING NOTES

EXISTING REINFORCING STEEL, UNLESS OTHERWISE SHOWN/NOTED IN THE PLANS, SHALL BE RETAINED.

EXISTING REINFORCING STEEL THAT IS TO REMAIN IN PLACE WITHIN THE REMOVAL AREAS SHALL BE CUT AS REQUIRED TO PROVIDE 2 1/2" MINIMUM CLEAR COVER FROM THE PROPOSED CONCRETE SURFACES. EXCEPT AS OTHERWISE NOTED, ALL COSTS INCLUDED IN ITEM 502, ALL NEW REINFORCING BARS SHALL HAVE A MINIMUM CLEAR COVER OF 2 1/2" FROM PROPOSED CONCRETE SURFACES.

ALL REINFORCING TO REMAIN IN PLACE SHALL BE INSPECTED FOR DAMAGE OR CORROSION JOINTLY BY THE CONTRACT ADMINISTRATOR AND CONTRACTOR AFTER EACH REMOVAL PHASE. ALL NEW REINFORCING STEEL REQUIRED TO REPAIR OR REPLACE EXISTING REINFORCEMENT SHALL BE PAID UNDER ITEM 1002.1, REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES.

PLACE REINFORCING STEEL TO AVOID RAIL POST ANCHOR ASSEMBLIES AND ANCHOR BOLTS AND EXPANSION JOINT ASSEMBLIES.

REINFORCING LEGEND: SP = SPACE, SPL = SPLICE, FS = FAR SIDE. NS = NEAR SIDE, BOT = BOTTOM, ALT = ALTERNATING

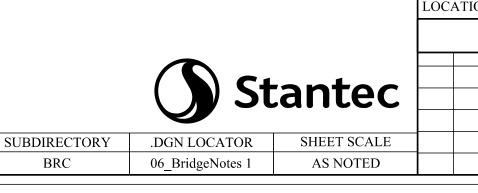
FOR TYPICAL BEND DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".

PROPOSED REINFORCEMENT, AS SHOWN IN THE PLANS, REPLACING EXISTING REBAR TO BE REMOVED, SHALL BE PAID UNDER ITEM 544.2, REINFORCING STEEL EPOXY COATED (F) AND ITEM 544.21, REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F).

(8) GALVANIC CORROSION PROTECTION SYSTEMS, ITEMS 540.511 AND 540.512, SHALL BE PLACED IN THE DECK AS SHOWN ON THE PLANS. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

- TO ITEM 538.6.

- 520.0201.
- REPAIRS.



BRC

## SUPERSTRUCTURE REHABILITATION NOTES

(1) BOLTS ARE MISSING AT THE LATERAL CONNECTION BRACKET (2 BOLTS). NEW <sup>7</sup>/8" DIAMETER BOLTS CONFORMING TO THE REQUIREMENTS OF ITEM 550 SHALL FILL THESE HOLES, ALL COSTS SHALL BE PAID UNDER ITEM 1002.1. REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES. NO OTHER STRUCTURAL REPAIRS ARE ANTICIPATED.

(2) ITEM 538.6, BARRIER MEMBRANE, HEAT WELDED, MACHINE METHOD (F) SHALL BE LAPPED PER MANUFACTURER'S REQUIREMENTS. AT DECK ENDS, WHERE THE MEMBRANE WILL NOT LAP NEW OR EXISTING MEMBRANE, A SEALANT/REPAIR MASTIC COMPATIBLE WITH ITEM 538.6 SHALL BRIDGE ANY GAP BETWEEN THE EXISTING AND NEW MEMBRANE, OR BETWEEN THE NEW MEMBRANE AND THE END OF DECK WHEN THERE IS NO EXISTING MEMBRANE. ALL COSTS SHALL BE SUBSIDIARY

(3) DURING ALL REMOVAL AND REPAIR OPERATIONS EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING DECK REINFORCEMENT, ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.

(4) DURING CONCRETE END OF DECK REMOVAL OPERATIONS, EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE TOP FLANGES OF EXISTING GIRDERS. ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.

(5) TO ACCOMPLISH THE PROPOSED EXPANSION JOINT REPAIRS, THE EXISTING DECK SHALL BE REMOVED TO LIMITS SHOWN IN THE PLANS UNDER ITEM 502., REMOVAL OF EXISTING BRIDGE STRUCTURE. ALL EXPOSED CONCRETE SURFACES OF THE DECK SHAL BE SAWCUT 1" DEEP TO PROVIDE CLEAN REMOVAL LINES (ALL COSTS INCLUDED IN ITEM 502.). NEW DECK END SHALL BE RECONSTRUCTED WITH ITEM 520.0201. PRIOR TO PLACING NEW CONCRETE, THE REMOVAL SURFACES SHALL BE BLAST CLEANED AND SATURATED SURFACE DRY (ALL COSTS INCLUDED IN ITEM 520.0201).

(6) AFTER REMOVAL OF EXISTING PAVEMENT AND MEMBRANE, THE EXISTING CONCRETE BRIDGE DECK SHALL BE "SOUNDED" TO DETERMINE AREAS REQUIRING PARTIAL AND FULL DEPTH DECK REPAIRS. ALL COSTS TO BE INCLUDED IN ITEM 511.02 OR ITEM 511.03.

(7) DETERIORATED AREAS OF DECK SHALL BE PATCHED WITH CONCRETE CLASS AA, PRIOR TO PLACING NEW CONCRETE, THE PREPARED AREAS SHALL BE BLAST CLEANED AND SATURATED SURFACE DRY (ALL COSTS SUBSIDIARY TO ITEM 520.01 OR 520.0201).

(8) UNLESS OTHERWISE NOTED, HOLES DRILLED INTO EXISTING CONCRETE SHALL BE DRILLED 1/2" DIAMETER LARGER THAN THE BAR DIAMETER AND GROUTED WITH AN APPROVED HIGH STRENGTH, NON-SHRINK CEMENTITIOUS GROUT, ALL COSTS FOR DRILLING AND GROUTING SHALL BE PAID FOR UNDER ITEM

(10) FOR DECK PATCHING, CURB OR BACKWALL WORK, ALL NEW REINFORCEMENT SHALL BE EPOXY COATED BARS. THE EXISTING BLACK REINFORCEMENT SHALL BE COATED WITH ANTI-CORROSION COATING AS NOTED IN THE SUPPLEMENTAL SPECIFICATION AMENDMENT TO SECTION 511. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 511.0x, PREPARTATION FOR PARTIAL/FULL DEPTH CONCRETE BRIDGE DECK

(11) EXPOSED SURFACES OF EXISTING ABUTMENTS, WINGS, BACKWALLS, AND BRIDGE SEATS SHALL BE WASHED, SUBSIDIARY TO ITEM 534.3, IN SUCH A MANNER THAT OVERSPRAY INTO SURFACE WATERS IS KEPT TO A MINIMUM. IF THE WATER BEADS, NO COATING NEEDS TO BE APPLIED. IF THE WATER DOES NOT BEAD COAT THE SURFACE WITH ITEM 534.3, WATER REPELLENT (SILANE-SILOXANE), APPLICATION RATE = 150 SF/GAL. (12) RESET GRANITE APPROACH CURB AS SHOWN ON THE PLANS, ITEM 609.5.

## STATE OF NEW HAMPSHIRE

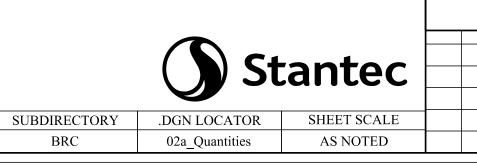
### DEPARTMENT OF TRANSPORTATION \* BUREAU OF BRIDGE DESIGN TOWN WALPOLE, NH - ROCKINGHAM, VT BRIDGE NO. 058/043 STATE PROJECT 42277 LOCATION CHURCH STREET OVER CONNECTICUT RIVER BRIDGE SHEET PROJECT NOTES 2 OF 19 REVISIONS AFTER PROPOSAL BY DATE BY DATE DESIGNED JDG 05/2020 CHECKED GAB 05/2020 FILE NUMBER DRAWN JTB 05/2020 CHECKED JDG 05/2020 **OUANTITIES** JDG 05/2020 CHECKED SRW 05/2020 FEDERAL PROJECT NO. TOTAL SHEETS **ISSUE DATE** SHEET NO. X-A004(799) 31 REV. DATE

# <u>QUANTITIES</u>

ITEM NO.	ITEM DESCRIPTION	UNIT	VT QUANTITY	NH QUANTITY	TOTAL QUANTITY
304.301	CRUSHED GRAVEL	CY		20	20
403.119	HOT BITUMINOUS PAVEMENT, MACHINE METHOD, HIGH STRENGTH	Т	275	310	585
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	Т		2	2
403.6	PAVEMENT JOINT ADHESIVE	LF	623	1772	2395
403.61	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	712	2026	2738
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE	Т	42	119	161
403.99	TEMPORARY BITUMINOUS PAVEMENT	Т	5	5	10
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	240	275	515
417	COLD PLANING BITUMINOUS SURFACES	SY	248	149	397
502	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	0.26	0.74	1
504.1	COMMON BRIDGE EXCAVATION (F)	CY		30	30
511.0001	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	SY	731	2080	2811
511.02	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	166	474	640
511.03	PREPARATION FOR FULL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	31	89	120
512.02	PREPARATION FOR CONCRETE REPAIRS, CLASS II	SY	1	4	5
520.01	CONCRETE CLASS AA	CY	19	55	74
520.02	CONCRETE CLASS AA ABOVE FOOTINGS (F)	CY	18	21	39
520.0201	CONCRETE CLASS AA ABOVE FOOTINGS	CY	10	27	37
534.3	WATER REPELLENT (SILANE-SILOXANE)	GAL	30	66	96
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY		13	13
538.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	SY	731	2081	2812
540.511	GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES)	LF	49	141	190
540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	EA	741	2109	2850
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF		49	49
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	1804	4013	5817
544.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	LB	402	624	1026
559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	LF	13	36	49
561.1001	PREFABRICATED STRIP SEAL EXPANSION JOINT (F)	LF	13	36	49
561.3001	PREFABRICATED FINGER EXPANSION JOINT (F)	LF	13	36	49
562.1	SILICONE JOINT SEALANT (F)	LF	97	107	204
563.073	ALUMINUM POST ASSEMBLY FOR F RAIL (3-BAR)	EA	4	2	6
563.8	RESETTING BRIDGE RAIL	LF	4	2	6
565.802	ADJUSTING BRIDGE APPROACH RAIL	U		2	2

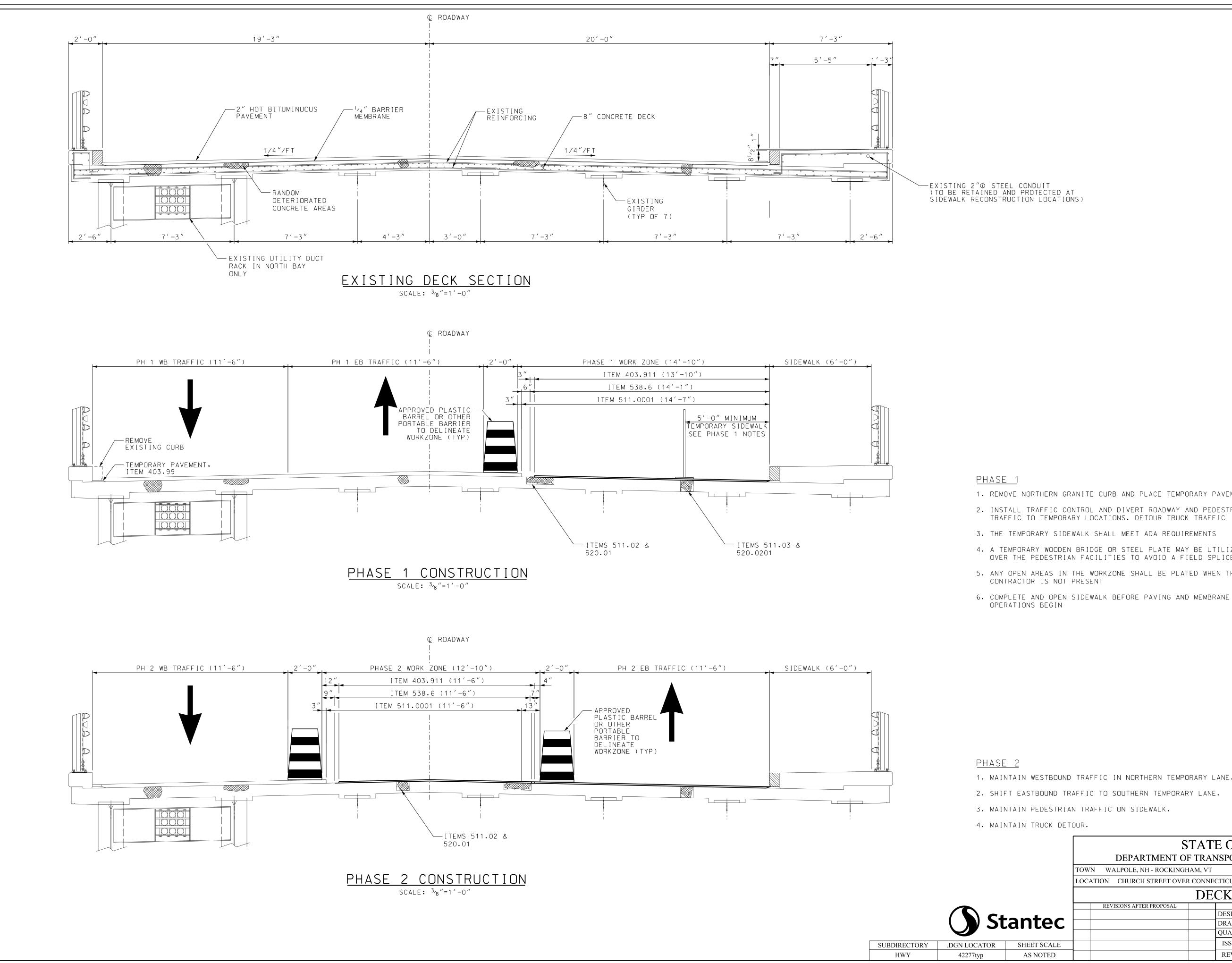
# <u>QUANTITIES (CONTINUED)</u>

			VT	NH	TOTAL
609.5	RESET GRANITE CURB	LF	116	60	176
616.171	PORTABLE TRAFFIC SIGNAL SYSTEM	EACH	3		3
616.191	ALTERATIONS TO TRAFFIC SIGNALS	EACH		1	1
618.61	UNIFORMED OFFICER WITH VEHICLE	\$	0.26	0.74	1
618.7	FLAGGERS	HR	208	592	800
619.1	MAINTENANCE OF TRAFFIC	U	0.26	0.74	1
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	1	3	4
628.2	SAWED BITUMINOUS PAVEMENT	LF	141	45	186
628.22	SAWED BITUMINOUS PAVEMENT (BRIDGE)	LF	308	976	1284
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	735	2607	3342
632.0124	RETROREFLECTIVE PAINT PAVE. MARKING, 24" LINE	LF	20	12	32
632.0118	RETROREFLECTIVE PAINT PAVE. MARKING, 18" LINE	LF	14	38	52
632.02	RETROREFLECTIVE PAINT PAVE. MARKING, SYMBOL OR WORD	SF		12	12
632.911	OBLITERATE PAVEMENT MARKING LINE, 12" WIDE & UNDER	LF	75	215	290
692	MOBILIZATION	U	0.26	0.74	1
698.12	FIELD OFFICE TYPE B	MON	2	6	8
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	0.26	0.74	1
1010.15	FUEL ADJUSTMENT	\$	0.26	0.74	1
1010.41	QUALITY CONTROL / QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	0.26	0.74	1



BRC

	STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
TOWNWALPOLE, NH - ROCKINGHAM, VTBRIDGE NO.058/043STATE PROJECT42277										
LOCATION CHURCH STREET OVER CONNE	CTICUT RIVER									
SUMMA	SUMMARY OF QUANTITIES									
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	3 OF 19			
	DESIGNED	JDG	05/2020	CHECKED	SRW	05/2020	FILE NUMBER			
	DRAWN			CHECKED						
	QUANTITIES			CHECKED						
	ISSUE DATE		FEDERA	AL PROJECT NO.	SHI	EET NO.	TOTAL SHEETS			
	REV. DATE		X-A	.004(799)		8	31			



- CONTRACTOR IS NOT PRESENT
- 6. COMPLETE AND OPEN SIDEWALK BEFORE PAVING AND MEMBRANE

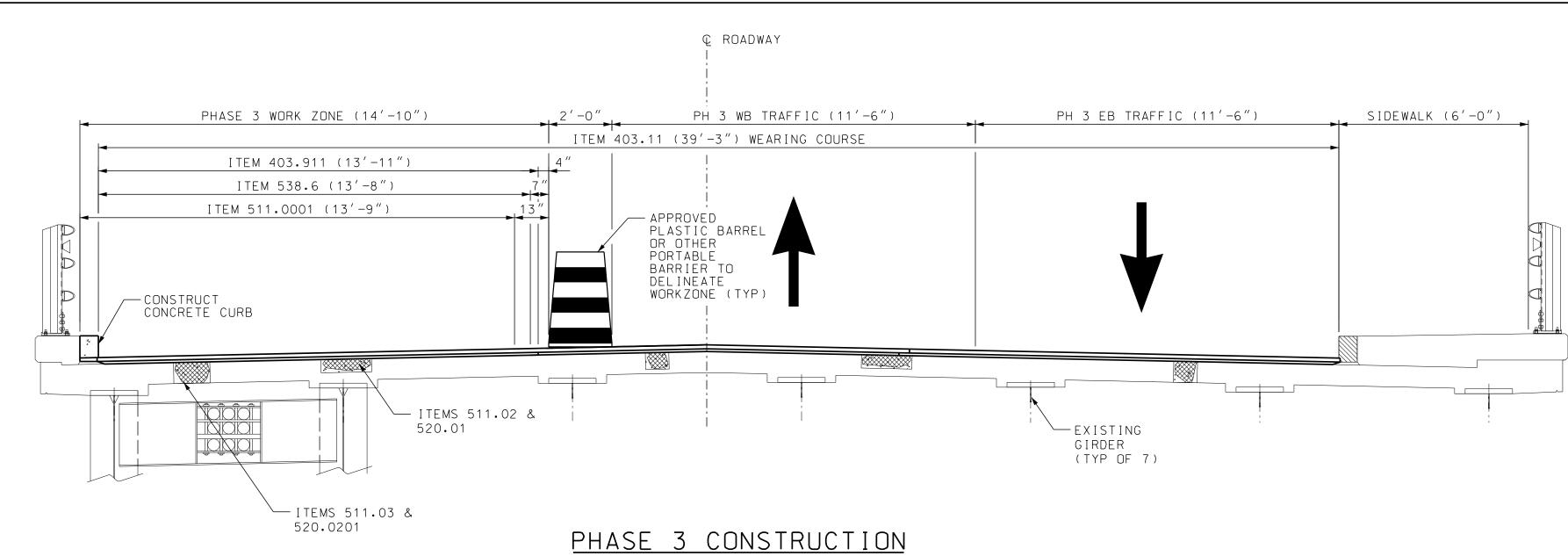
- 2. SHIFT EASTBOUND TRAFFIC TO
- 3. MAINTAIN PEDESTRIAN TRAFF

				~					_							
				DEPARTMENT O	F TRAN	NSPORTATIO	ON * BL	JREAU OF BR	IDGE D	ESIG	ίN					
			TOWN	WALPOLE, NH - ROCKING	HAM, VT		BRIDGE	NO. 058/043	STATE	E PROJI	ECT 4	2277				
			LOCATI	ON CHURCH STREET OVE	R CONNE	CTICUT RIVER										
				DECK PHASING 1												
				REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE	4 of 19				
						DESIGNED	ISM	04/2019 CHECK	ED .	JDG	05/2020	FILE NUMBER				
		antec				DRAWN	JTB	05/2020 CHECK	ED .	JDG	05/2020					
						QUANTITIES	JDG	05/2020 CHECK	ED S	SRW	05/2020					
DIRECTORY	.DGN LOCATOR	SHEET SCALE				ISSUE DATE		FEDERAL PROJECT	NO.	SHEE	ET NO.	TOTAL SHEETS				
HWY	42277typ	AS NOTED				REV. DATE		X-A004(79	9)		9	31				
			-		-	-	•									

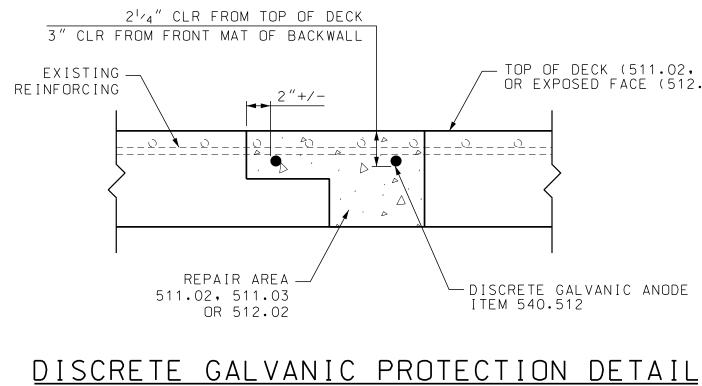
С	Ι	Ν	NC	IRTHE	RN	TEMF	PORA	ARY	LAN	E.
0	S	OL	JTH	ERN	TEN	/PORA	٨RΥ	LAN	NE.	
Ī	2	ON	I S	IDEV	VALK	•				

# STATE OF NEW HAMPSHIRE

1. REMOVE NORTHERN GRANITE CURB AND PLACE TEMPORARY PAVEMENT 2. INSTALL TRAFFIC CONTROL AND DIVERT ROADWAY AND PEDESTRIAN TRAFFIC TO TEMPORARY LOCATIONS, DETOUR TRUCK TRAFFIC 3. THE TEMPORARY SIDEWALK SHALL MEET ADA REQUIREMENTS 4. A TEMPORARY WOODEN BRIDGE OR STEEL PLATE MAY BE UTILIZED OVER THE PEDESTRIAN FACILITIES TO AVOID A FIELD SPLICE 5. ANY OPEN AREAS IN THE WORKZONE SHALL BE PLATED WHEN THE



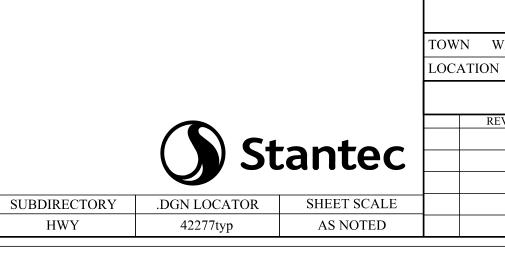
SCALE: 3/8"=1'-0"



NOT TO SCALE

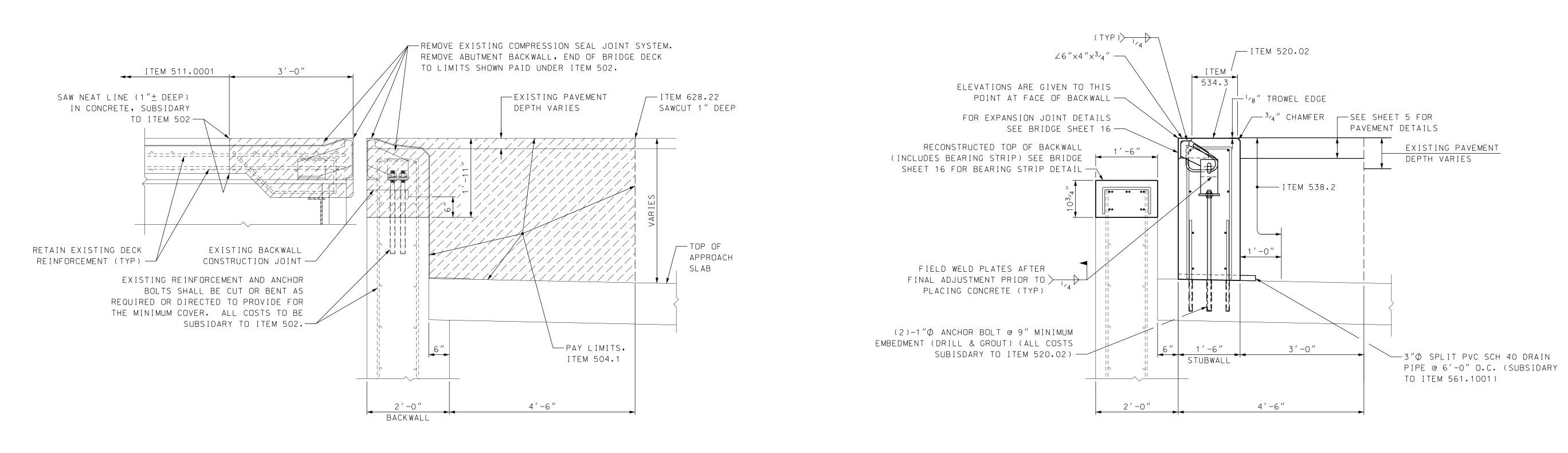
- <u>phase</u> 3
- 1. SHIFT WESTBOUND TRAFFIC TO CENTER TEMPORARY LANE.
- 2. MAINTAIN EASTBOUND TRAFFIC IN TEMPORARY LANE.
- 3. MAINTAIN PEDESTRIAN TRAFFIC ON SIDEWALK.
- 4. MAINTAIN TRUCK DETOUR.

/ TOP OF DECK (511.02, 511.03) OR EXPOSED FACE (512.02)



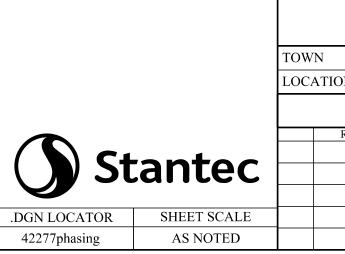
## STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION \* BUREAU OF BRIDGE DESIGN

WALPOLE, NH - ROCKINGHAM, VTBRIDGE NO.058/043STATE PROJECT42										
ION CHURCH STREET OVER CONNECTICUT RIVER										
DECK PHASING 2 REVISIONS AFTER PROPOSAL BY DATE BY DATE 5 OF 19										
REVISIONS AFTER PROPOSAL     BY     DATE     BY     DATE										
	DESIGNED	ISM	04/2019	CHECKED	JDG	05/2020	FILE NUMBER			
	DRAWN	JTB	05/2020	CHECKED	JDG	05/2020				
	QUANTITIES	JDG	05/2020	CHECKED	SRW	05/2020				
	ISSUE DATE		FEDERAL	PROJECT NO.	SHI	EET NO.	TOTAL SHEETS			
REV. DATE X-A004(799) 10										



 $\frac{\text{SECTION A-A REMOVAL}}{\text{SCALE: } 3_{4}" = 1'-0"}$ 

NOTE:



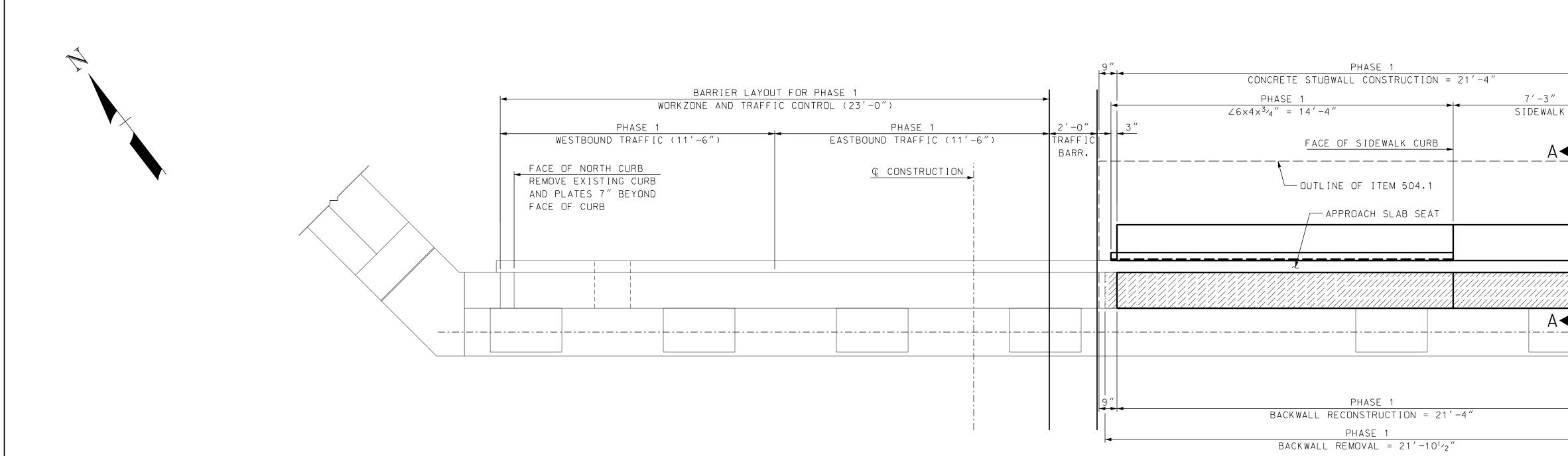
SUBDIRECTORY BRC

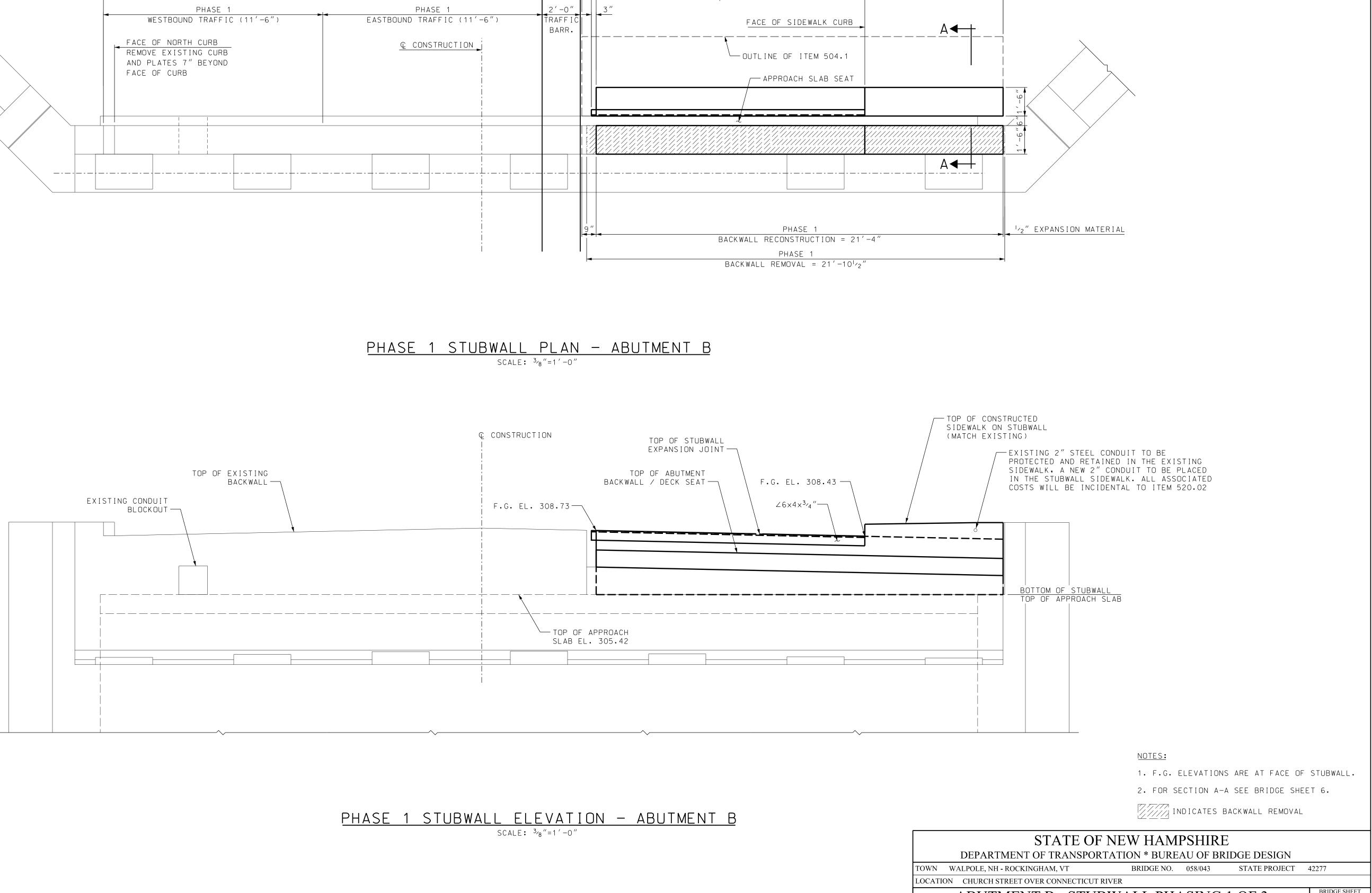
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
WALPOLE, NH - ROCKINGHAM, VTBRIDGE NO.058/043STATE PROJECT42277									
ION CHURCH STREET OVER CONNECTICUT RIVER									
ABUTMENT B - STUBWALL SECTIONS									
REVISIONS AFTER PROPOSAL BY DATE BY DATE								6 OF 19	
	DESIG	<b>NED</b>	JDG	05/2020	CHECKED	JDG	05/2020	FILE NUMBER	
	DRAW	VN	JTB	05/2020	CHECKED	JDG	05/2020		
	QUAN	TITIES	JDG	05/2020	CHECKED	SRW	05/2020		
ISSUE DATE FEDERAL PROJECT NO. SHEET NO.								TOTAL SHEETS	
REV. DATE X-A004(799) 11								31	

1. FOR LOCATION OF SECTION A-A REMOVAL AND SECTION A-A RECONSTRUCTION SEE BRIDGE SHEET 7 THROUGH 9.

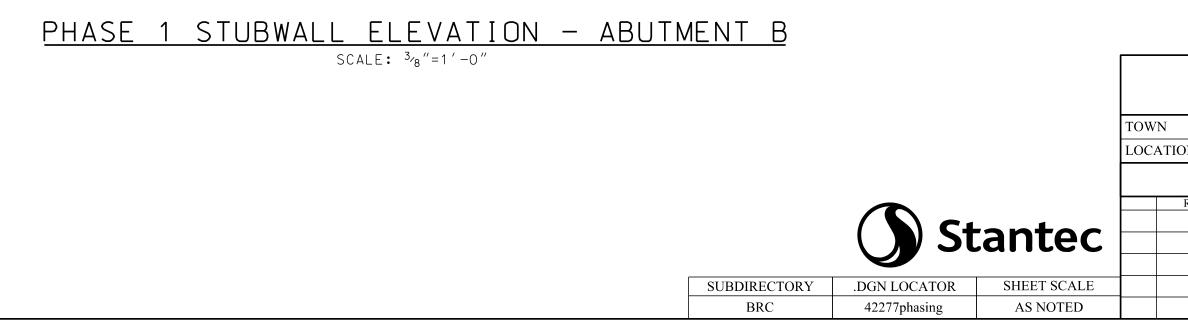
STATE OF NEW HAMPSHIRE

# $\frac{\text{SECTION A-A RECONSTRUCTION}}{\text{SCALE: } \frac{3}{4} = 1' - 0''}$

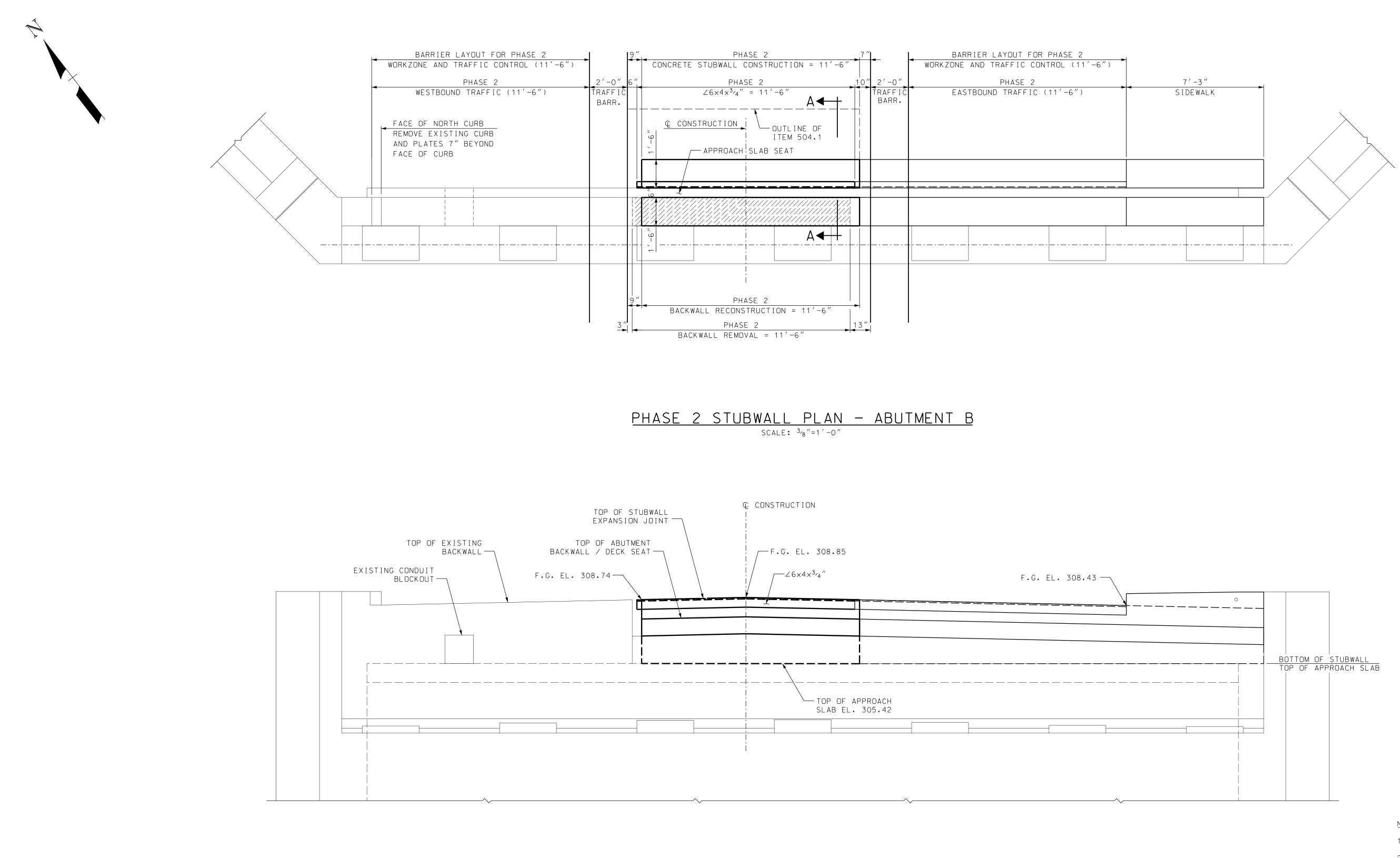


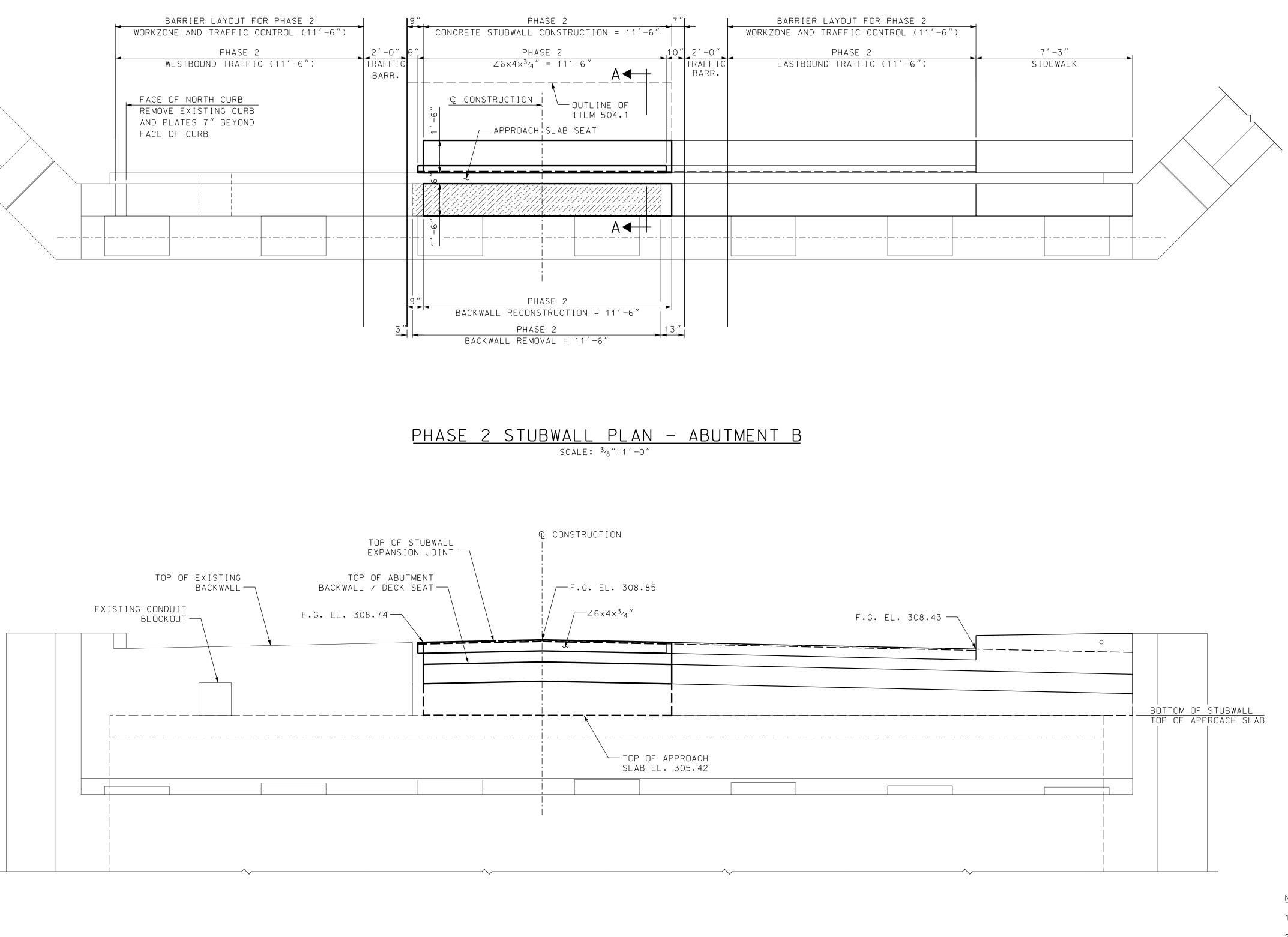


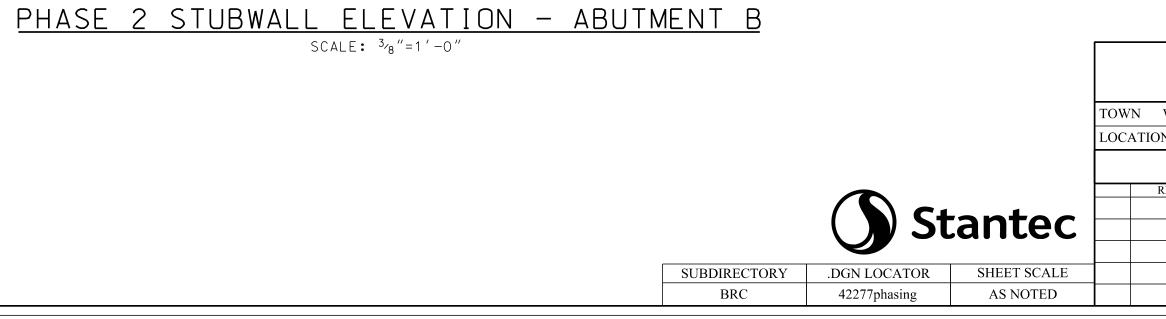




SN CHURCH STREET OVER CONNECTICUT RIVER										
ABUTMENT B - STUBWALL PHASING 1 OF 3								BRIDGE SHEET		
REVISIONS AFTER PROPOSAL	~				-		BY	DATE	7 OF 19	
KEVISIONS AFTER FROFOSAL			BY DATE BY DATE							
		DESIGNED	JDO	G 05/20	20	CHECKED	JDG	05/2020	FILE NUMBER	
		DRAWN	JTE	<b>B</b> 05/202	20	CHECKED	JDG	05/2020		
		QUANTITIES	JDO	G 05/202	20	CHECKED	SRW	05/2020		
		ISSUE DATE		FEDI	ERA	L PROJECT NO.	SHI	EET NO.	TOTAL SHEETS	
		REV. DATE	REV. DATE X-A004(799) 12						31	







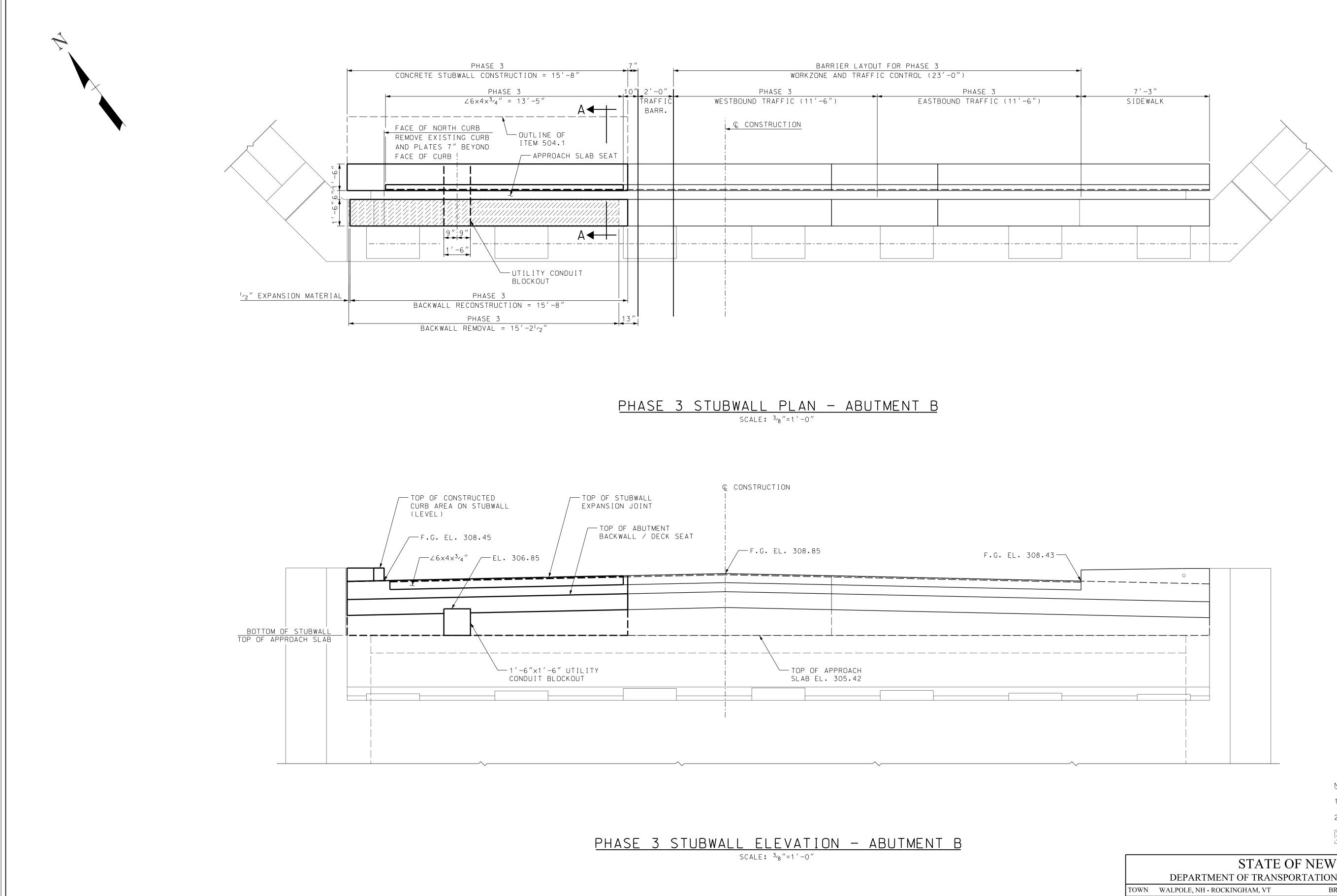
## NOTES:

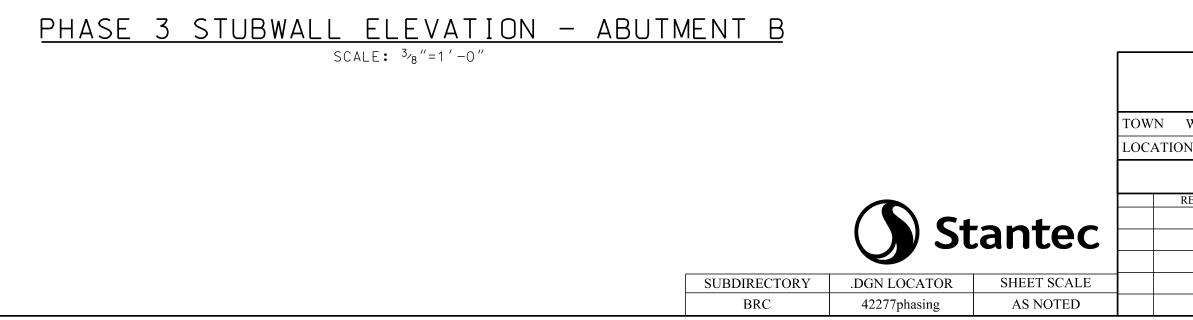
1. F.G. ELEVATIONS ARE AT FACE OF STUBWALL.

2. FOR SECTION A-A SEE BRIDGE SHEET 6.

INDICATES BACKWALL REMOVAL

S	TATE OF NE	W HAI	MPSI	HIRE				
DEPARTMENT OF	DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN							
WALPOLE, NH - ROCKINGHAM, VTBRIDGE NO.058/043STATE PROJECT42277								
ON CHURCH STREET OVER	CONNECTICUT RIVER							
ABUTMENT B - STUBWALL PHASING 2 OF 3								
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	8 OF 19	
	DESIGNED	JDG	05/2020	CHECKED	JDG	05/2020	FILE NUMBER	
	DRAWN	JTB	05/2020	CHECKED	JDG	05/2020		
	QUANTITIES	JDG	05/2020	CHECKED	SRW	05/2020		
	ISSUE DATE		FEDERA	AL PROJECT NO.	SHI	EET NO.	TOTAL SHEETS	
	REV. DATE		X-A	004(799)		13	31	





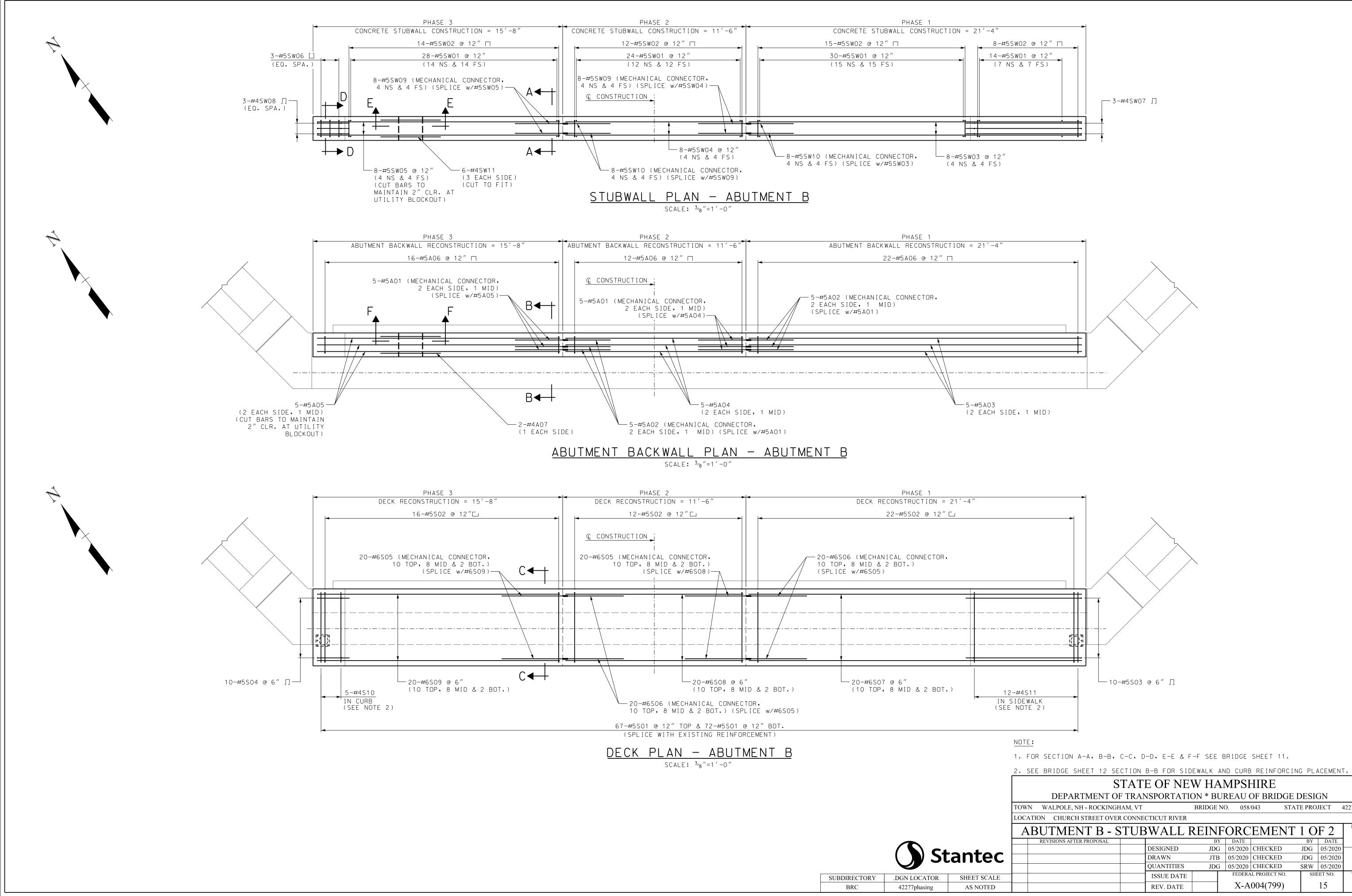
## NOTES:

1. F.G. ELEVATIONS ARE AT FACE OF STUBWALL.

2. FOR SECTION A-A SEE BRIDGE SHEET 6.

INDICATES BACKWALL REMOVAL

S	STATE OF NEW HAMPSHIRE								
DEPARTMENT OF	DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN								
WALPOLE, NH - ROCKINGHAM, VTBRIDGE NO.058/043STATE PROJECT42277									
ON CHURCH STREET OVER	CONNE	CTICUT RIVER							
ABUTMENT B - STUBWALL PHASING 3 OF 3									
REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE	9 OF	F 19
		DESIGNED	JDG	05/2020	CHECKED	JDG	05/2020	FILE NU	MBER
		DRAWN	JTB	05/2020	CHECKED	JDG	05/2020		
		QUANTITIES	JDG	05/2020	CHECKED	SRW	05/2020		
ISSUE DATE     FEDERAL PROJECT NO.     SHEET NO.     TOTAL SHEETS									
		REV. DATE		X-A	.004(799)		14	3	1

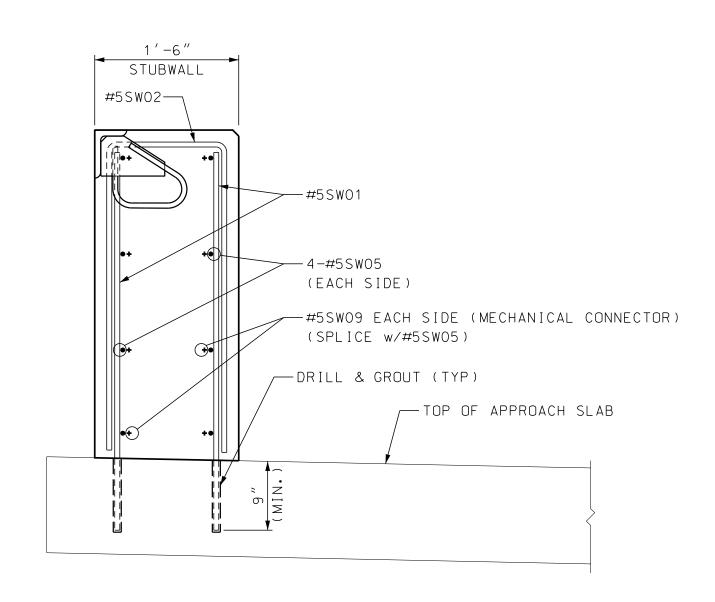


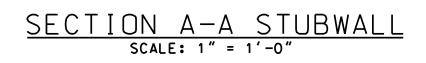
1. FOR SECTION A-A, B-B, C-C, D-D, E-E & F-F SEE BRIDGE SHEET 11.

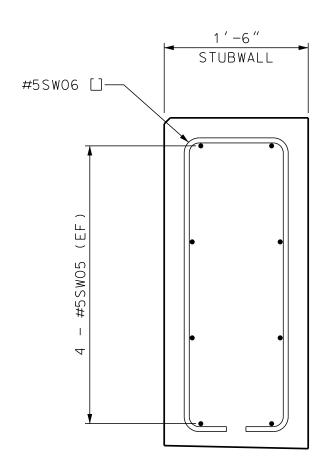
# OTATE OF NEW HANDOUDE

STATE OF N	[EW HAM]	PSHIR	E	
DEPARTMENT OF TRANSPORTA	TION * BURE	AU OF B	RIDGE DESIGN	
POLE, NH - ROCKINGHAM, VT	BRIDGE NO.	058/043	STATE PROJECT	42277

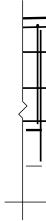
ON CHURCH STREET OVER	R CONNE	CTICUT RIVER						
SUTMENT B - STUBWALL REINFORCEMENT I OF 2							BRIDGE SHEET	
REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE	10 of 19
		DESIGNED	JDG	05/2020	CHECKED	JDG	05/2020	FILE NUMBER
		DRAWN	JTB	05/2020	CHECKED	JDG	05/2020	
		QUANTITIES	JDG	05/2020	CHECKED	SRW	05/2020	
		ISSUE DATE		FEDERA	AL PROJECT NO.	SHI	EET NO.	TOTAL SHEETS
		REV. DATE		X-A	.004(799)		15	31

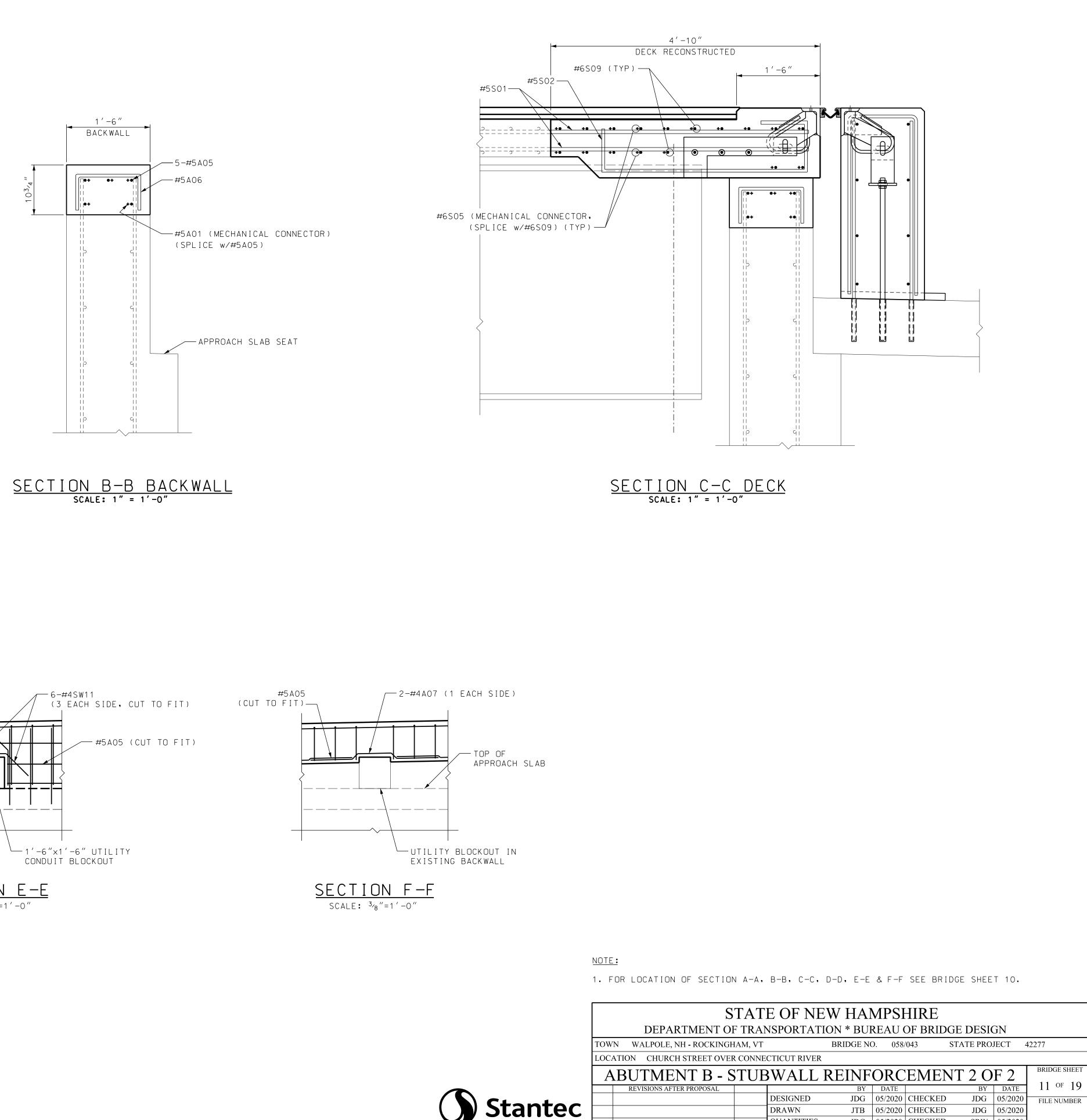




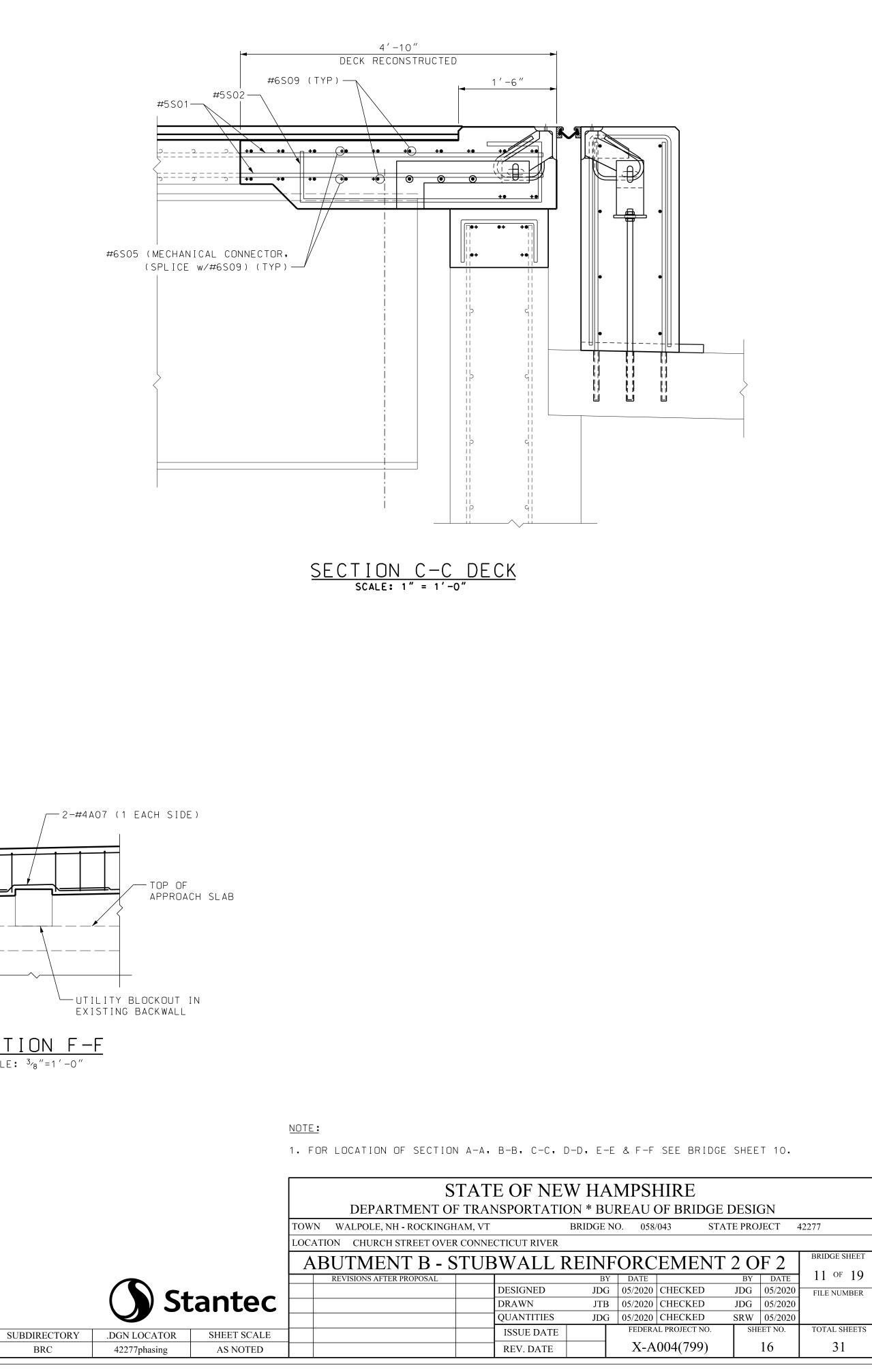


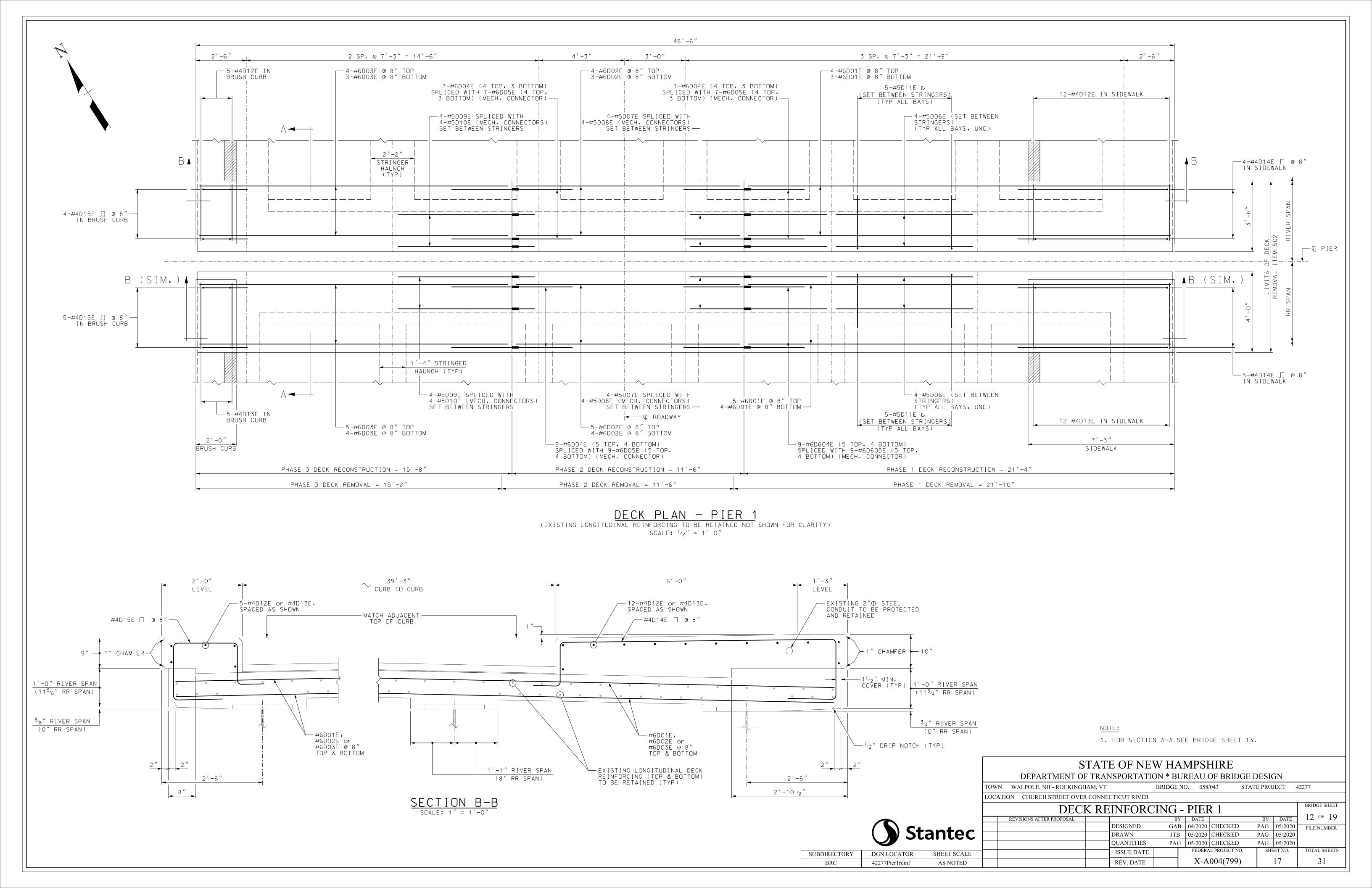
SECTION D-D STUBWALL SCALE: 1" = 1'-0"

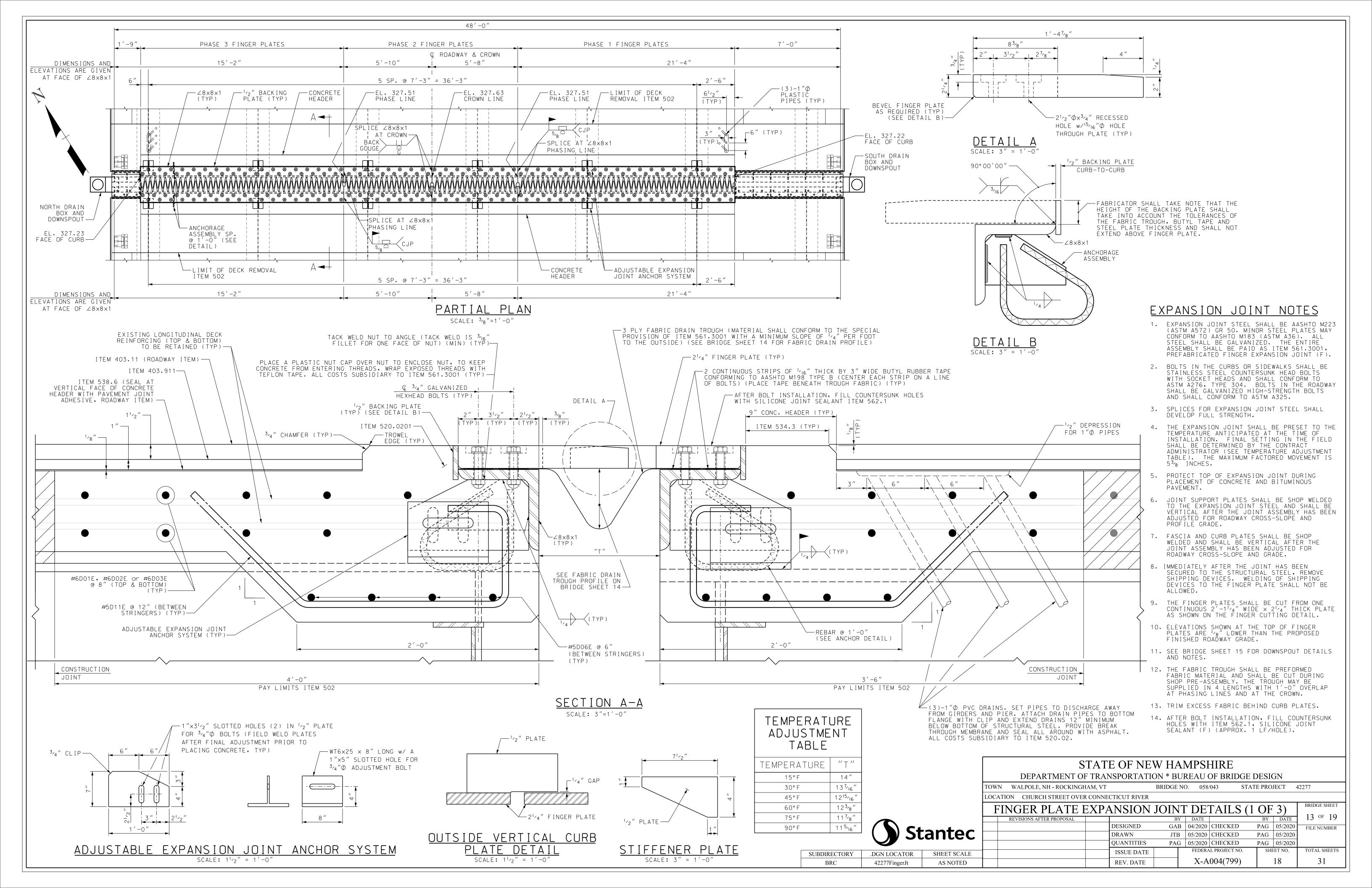


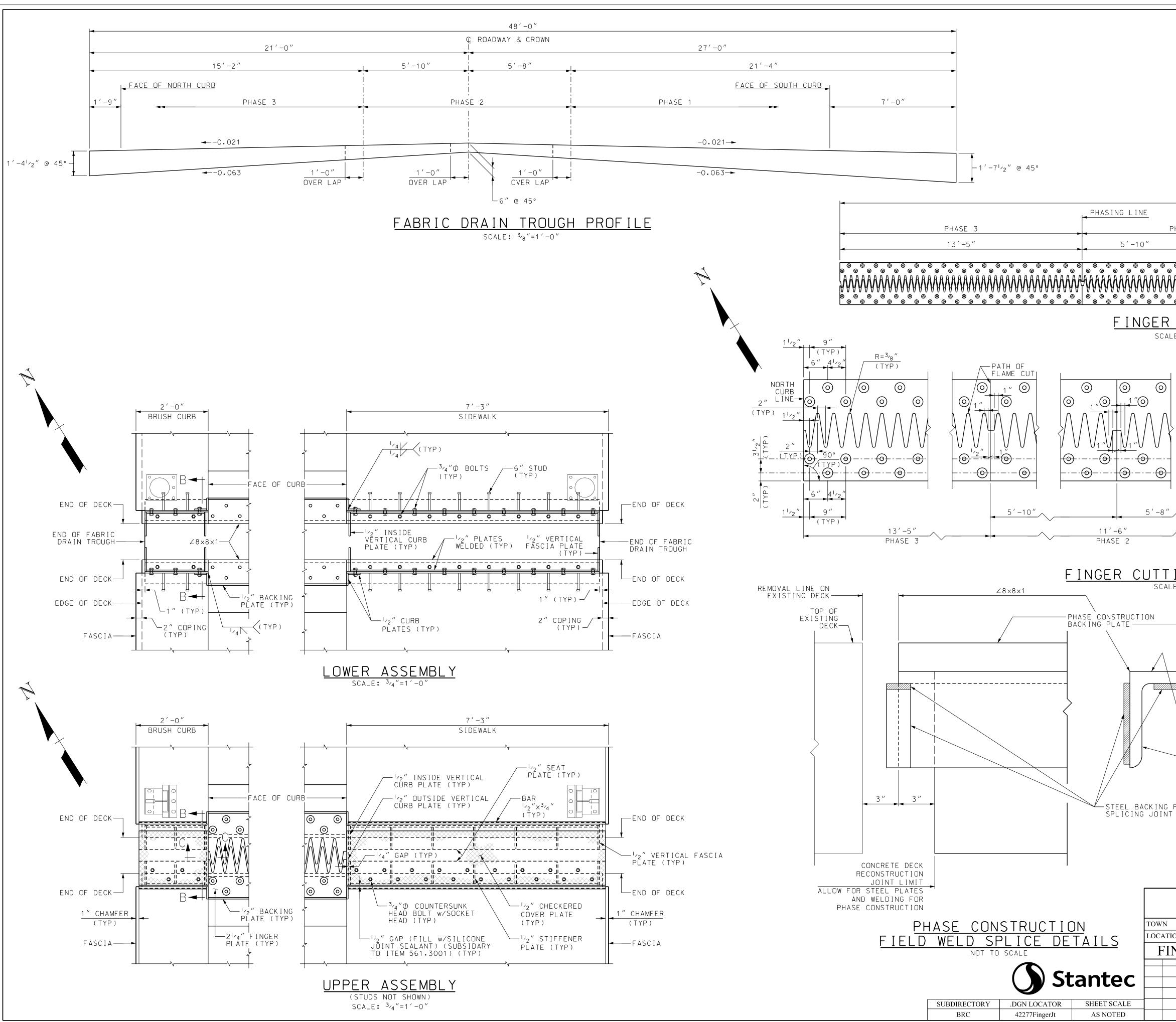


<u>Section E-E</u> SCALE: 3/8 "=1'-0"

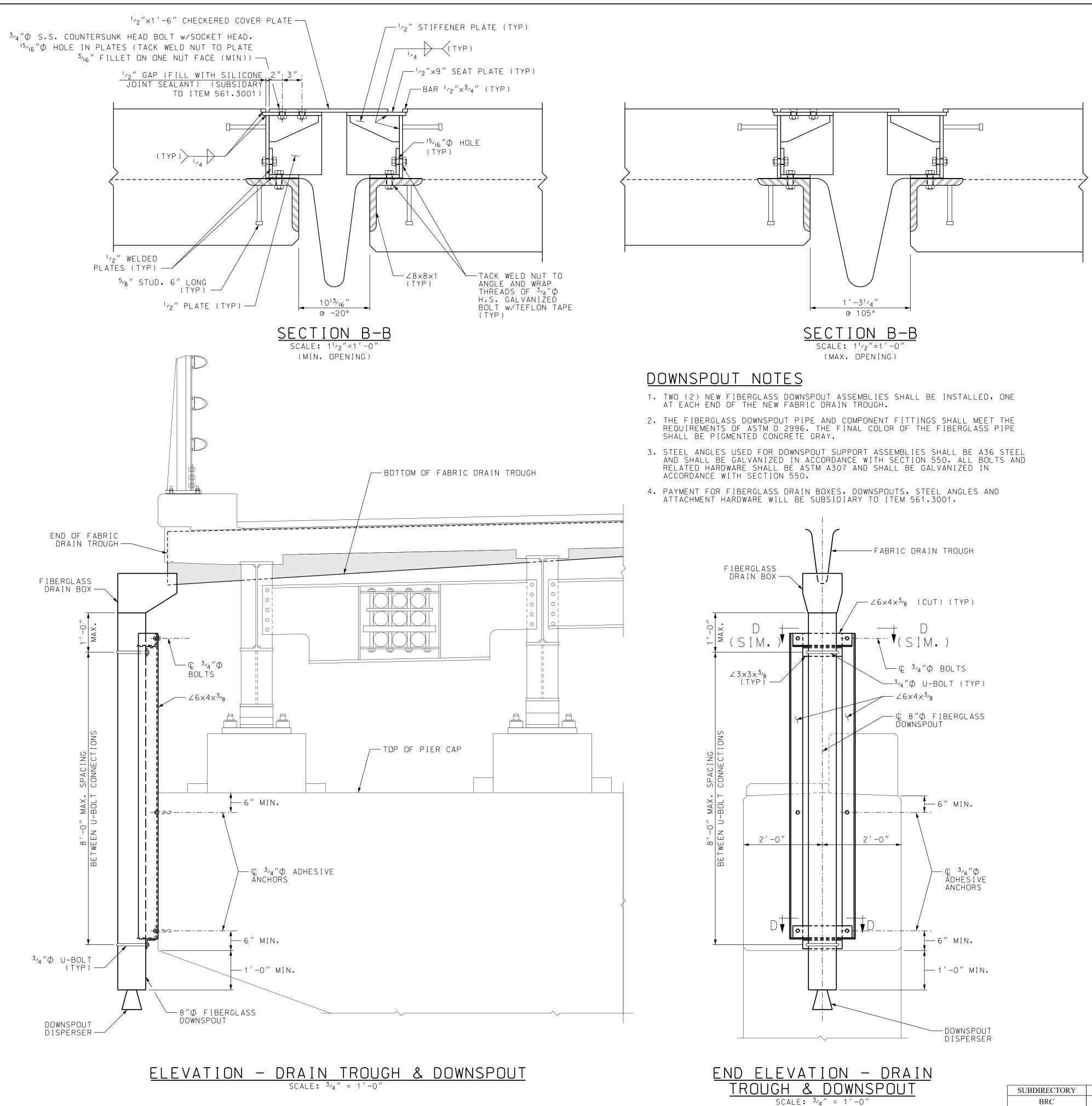


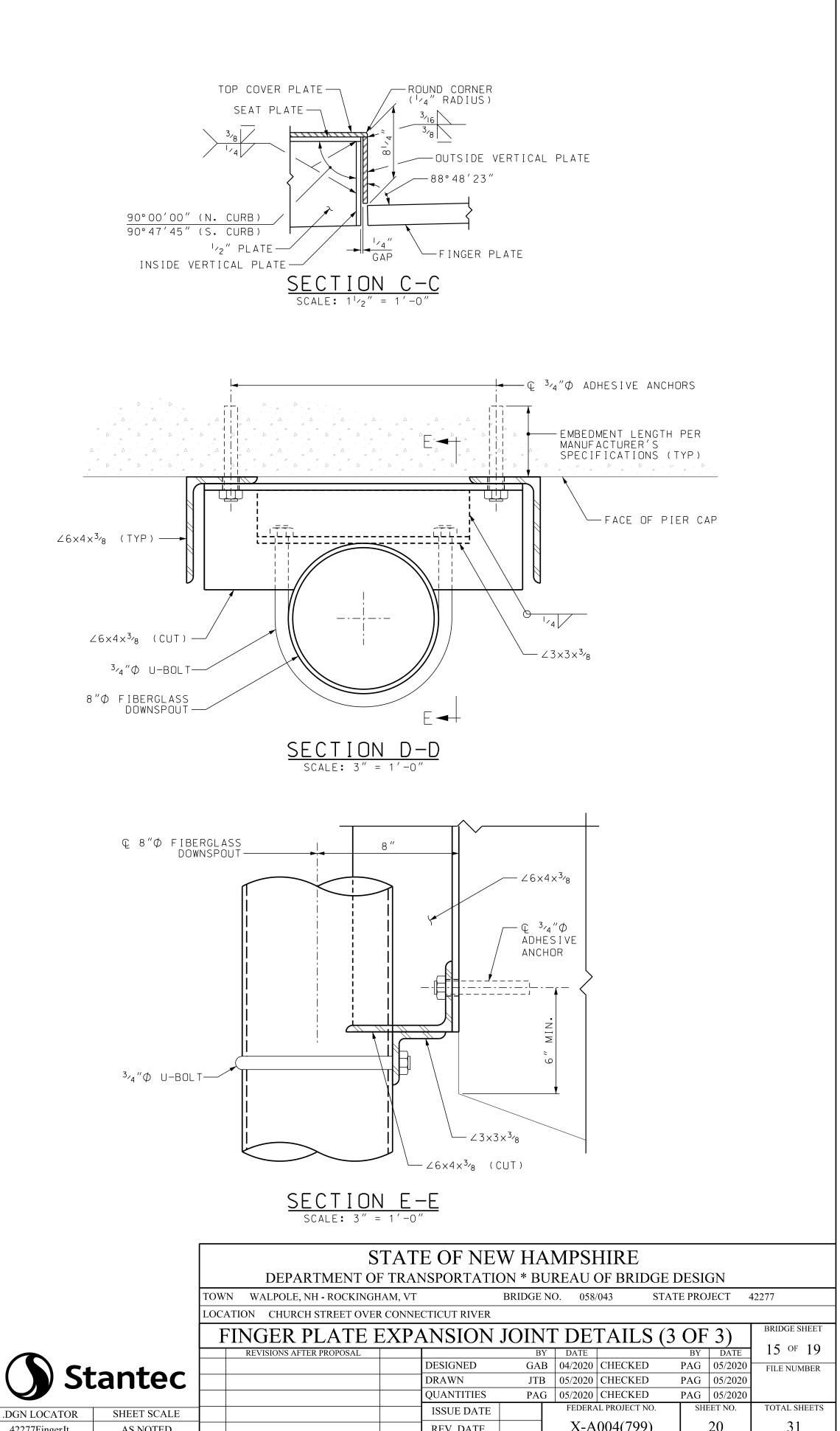


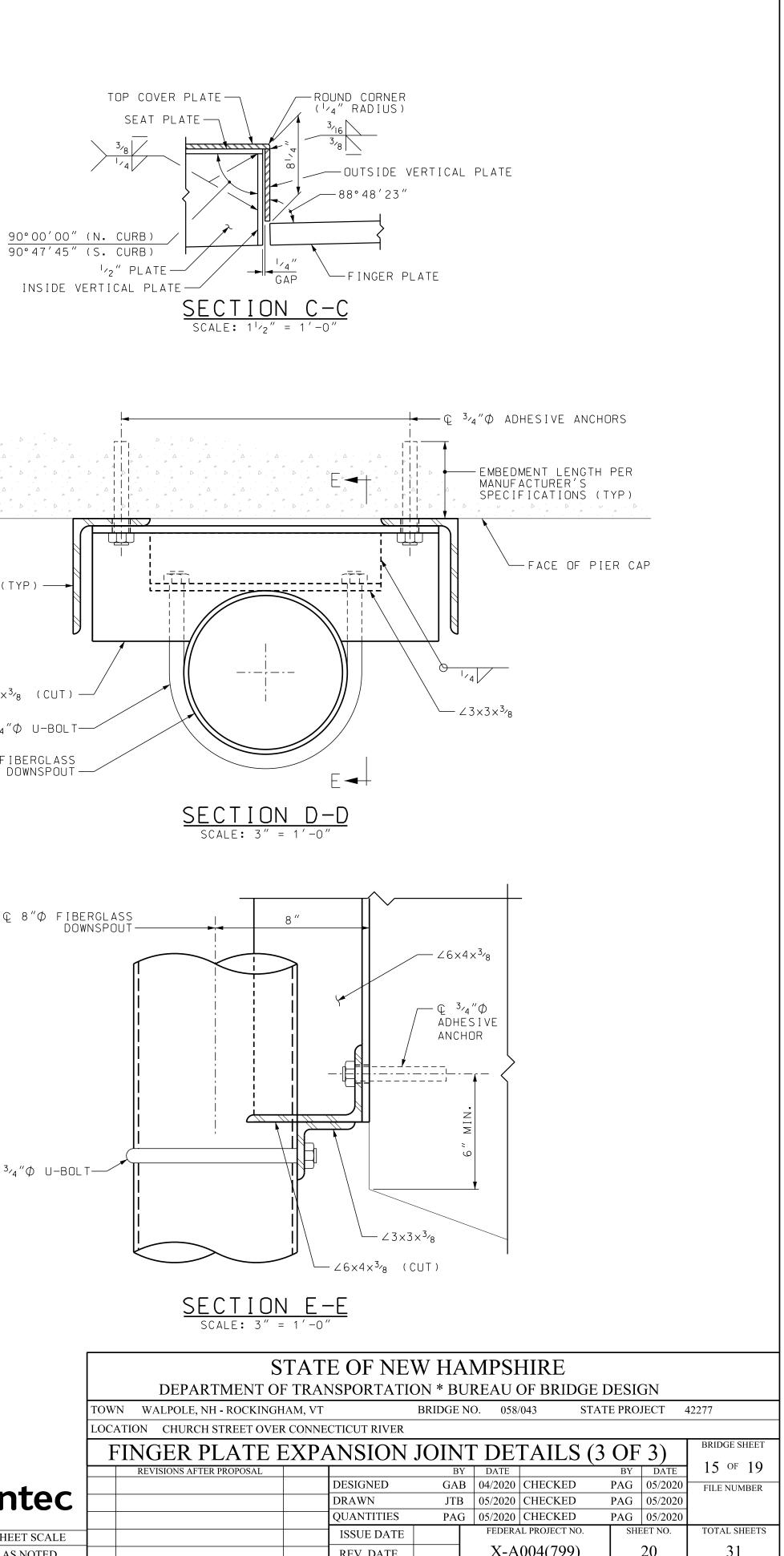




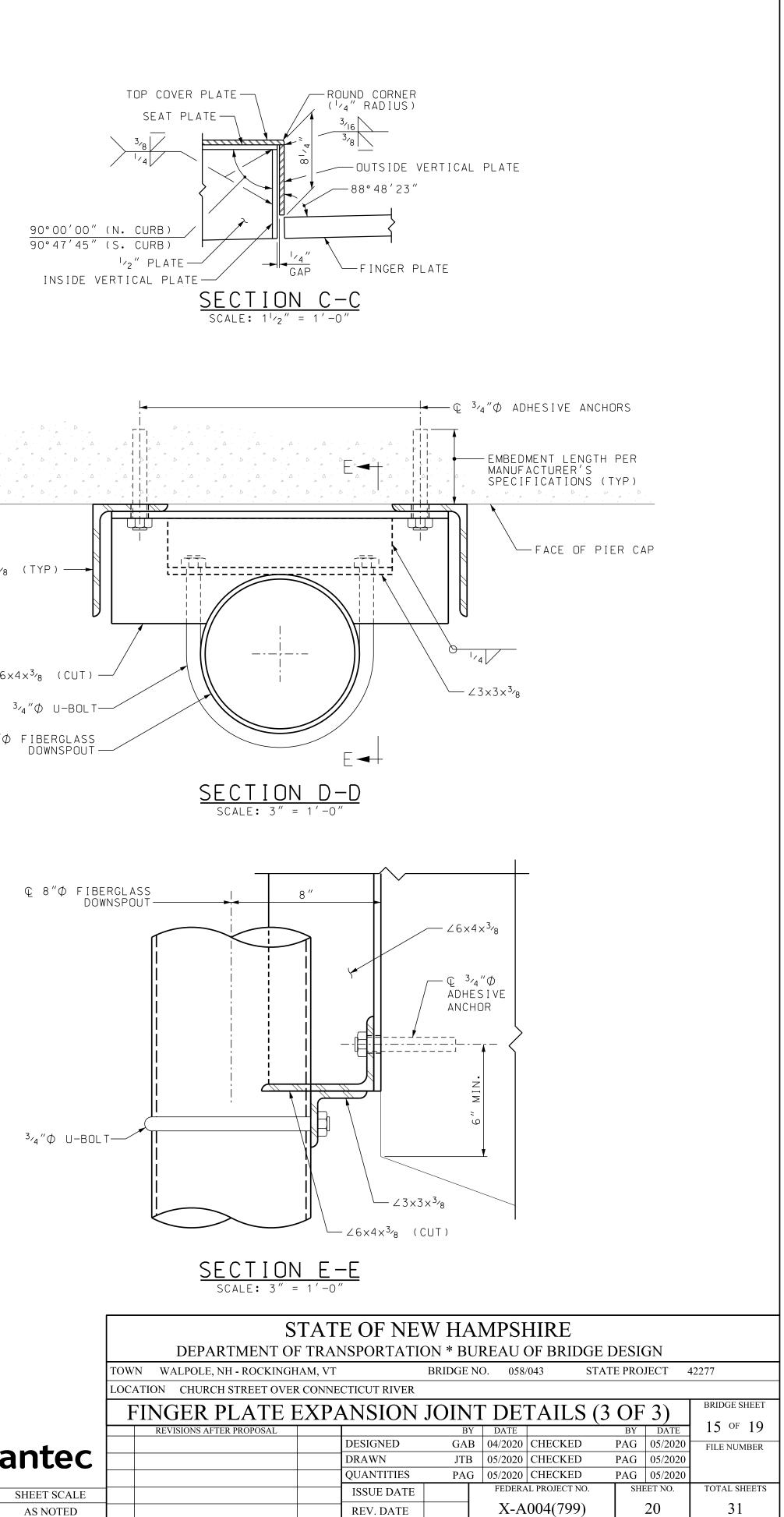
39'-3"	WN , PHASING LIN	IC		
PHASE 2		PHASE 1	1	
5'-8"		14′-4″		<b>-</b>
W. WWWWWW	^^^^	ŴŴŴŴŴŴ		۸۸, I
PLATE PLA				
LE: ${}^{3}_{78}"=1'-0"$	A" RECESSED HOLE DLE THROUGH R O O O	$\bigcirc \bigcirc $		SOUTH CURB INE <sup>* 8</sup> ' <sub>9</sub> <sup>• 8</sup> ' <sub>9</sub> <sup>• 7</sup>
	 25 <sup>1</sup> /₄″ ℝ		9" 	1 ' -0 <sup>5</sup> / <sub>8</sub> "
	14'-4" PHASE 1		└──►┤ <b>┥───</b> ►	
<b>ING PLATE</b> E: 1″=1′-0″	JETAIL			
	<sup>3</sup> /4" CLIP	$R = 1^{3} \cdot 4^{''}$	2°-00'-00"	
	ANC s	$\frac{\text{CHOR DETA}}{\text{CALE: } 3'' = 1' - 0''}$	<u>IL</u>	
		W HAMPSHIR		
WALPOLE, NH - ROCKINGH	AM, VT	DN * BUREAU OF BBRIDGE NO.058/043		42277
		JOINT DETAI		BRIDGE SHEET
REVISIONS AFTER PROPOSAL	DESIGNED DRAWN	BY         DATE           GAB         04/2020         CHEC           JTB         05/2020         CHEC	CKED PAG 05/2020	14 OF 19 FILE NUMBER
	QUANTITIES ISSUE DATE REV. DATE	PAG 05/2020 CHEC FEDERAL PROJ X-A004(	ECT NO. SHEET NO.	TOTAL SHEETS 31
	1	l	1	J

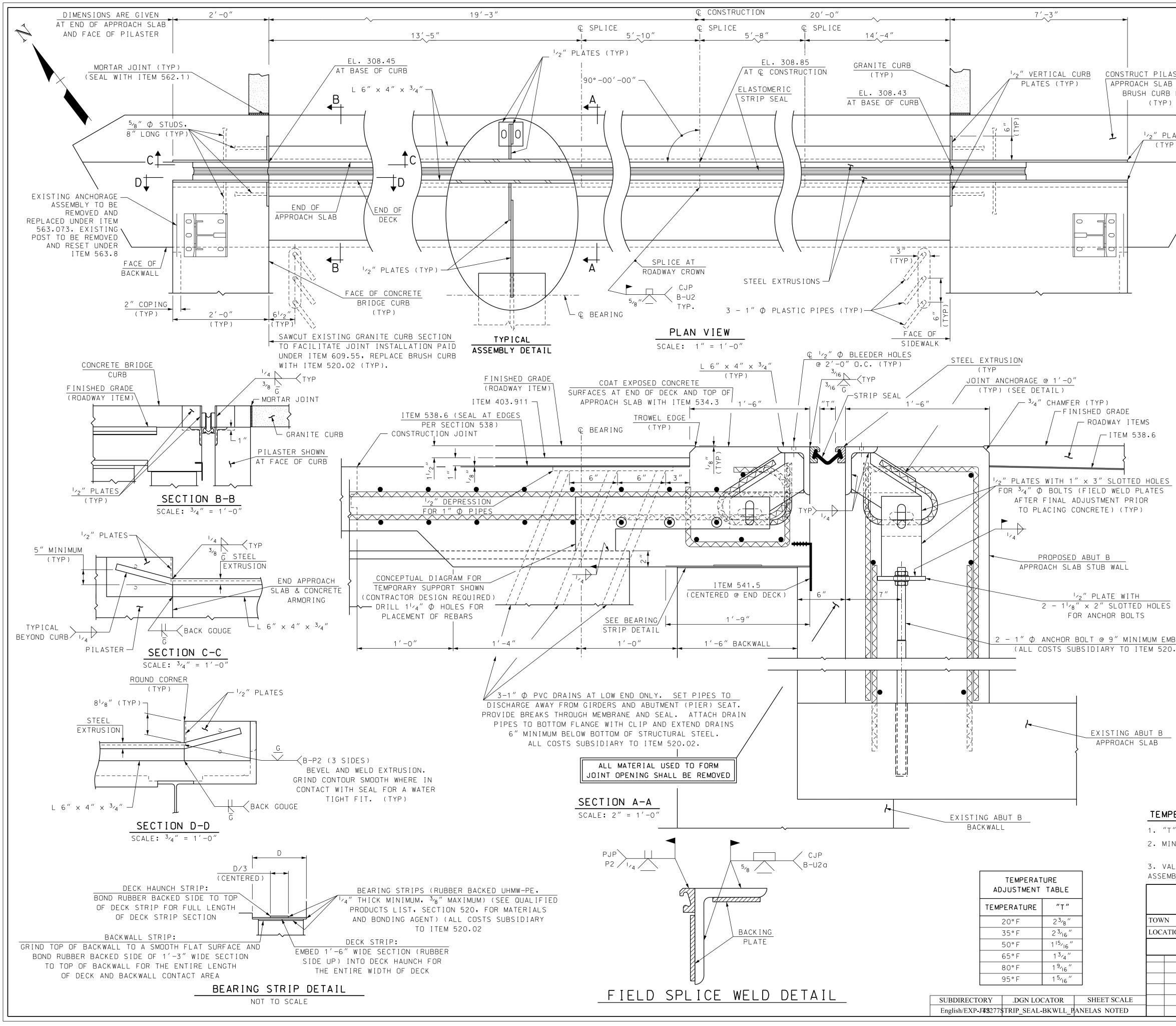






42277FingerJt





		EXPANSION JOINT NOTES		
<u>STER FROM</u> SEAT TO LEVEL		ALL EXPANSION JOINT STEEL, INCLUDING ANCHORS, SHALL STEEL ANGLES SHALL BE ASTM A572 GRADE 50. MINOR STE CONFORM TO ASTM A36. THE ENTIRE ASSEMBLY, INCLUDING SHALL BE PAID FOR AS ITEM 561.1001, PREFABRICATED ST EXPANSION JOINT (F).	EEL PLATES MAY IG STRIP SEAL, STRIP SEAL	
ATES		SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH EXPANSION JOINT OPENING SHALL BE ADJUSTED TO TEMPERA JUST PRIOR TO POURING DECK BLOCKOUT. FINAL SETTING BE DETERMINED BY THE CONTRACT ADMINISTRATOR. SEE TE ADJUSTMENT TABLE & NOTES.	ATURE ANTICIPATED IN THE FIELD SHAL	. L
/	(4)	STRIP SEAL SHALL BE FURNISHED IN ONE CONTINUOUS LENG WILL BE ALLOWED. SEAL SHALL BE INSTALLED IN THE FIE CONTRACTOR, IN ACCORDANCE WITH THE MANUFACTURER OF APPROVED TOOL THAT WILL NOT DAMAGE THE SEAL.	ELD BY THE	1
	(5)	JOINT SUPPORT PLATES AND CURB PLATES SHALL BE SHOP A JOINT STEEL AND SHALL BE NORMAL TO GRADE AFTER JOINT ADJUSTED FOR ROADWAY CROSS-SLOPE AND GRADE. STEEL EXTRUSIONS SHALL BE ASSEMBLED WITH A CONSTANT JOINT PROPER PERFORMANCE AND WATER TIGHTNESS.	IT ASSEMBLY HAS BEE ANGLES AND	ΞN
	(6)	THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-O" OF F		
	(7)	IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE AND BACKWALL, REMOVE SHIPPING DEVICES AND GRIND SMOO EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED S ACCORDANCE WITH SECTION 550.	OTH ANY WELDS ON	
	(8)	PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF ( BITUMINOUS PAVEMENT.	CONCRETE AND	
	(9)	THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTOR INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATUR AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHAL SEAL BY WATSON BOWMAN OR A2R-400 BY D.S. BROWN, AS I	RE, SKEW, SHRINKAGE All USE an SE-400	
	(10)	ELEVATIONS SHOWN AT TOP OF ANGLES ARE $^{1}\!\prime_{8}''$ lower than finished roadway grade.	N PROPOSED	
	(11)	NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED. APPROVED PRODUCTS.	SEE QPL FOR	
	(12)	PRIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WOR REMOVED. STEEL ANGLES AND EXTRUSIONS SHALL BE MAIN DIRT, WATER AND ANY OTHER LOOSE DEBRIS, WITH THE USE AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL E DAMAGE GALVANIZED SURFACES.	ITAINED FREE FROM E OF COMPRESSED	
	(13)	A TEMPORARY SEAL(S) SHALL BE INSTALLED PRIOR TO THE WINTER MAINTENANCE PERIOD FOR ALL JOINT ASSEMBLIES ( THAT WILL BE IN PLACE THROUGHOUT THE WINTER. ALL THE SHALL BE REMOVED AND JOINT OPENINGS AND SUBSTRUCTURE PRIOR TO INSTALLING THE FINAL SEAL. ALL COSTS SHALL ITEM 561.1001.	OR PORTIONS THEREC Emporary seals E shall be cleaned	)
		$\frac{\text{STEEL PLATE}}{\frac{1}{2}^{\prime} \times 8^{\prime} \times 5^{\prime\prime}} \qquad \frac{5_{16}}{16} \qquad \text{TYP}$	#5 REINFORCING	7
BEDMENT • 02		$3_{\prime 4}^{\prime \prime \prime} \text{ CL IP}$	BAR 32°-00'-00" +	
		ANCHOR DETAIL (90° CF		
" DIMENSIO	NS AF	SCALE: $3'' = 1' - 0''$ RE PERPENDICULAR TO FACE OF BACKWALL. H FOR SEAL INSTALLATION = $13_{4}''$ (APPROXIMATELY 65°F OF		
		MPERATURE ADJUSTMENT TABLE ARE FOR SETTING THE EXPAN Y PRIOR TO POURING THE DECK BLOCKOUT.	NSION JOINT	
DEPAR	RTMI	STATE OF NEW HAMPSHIRE	IGN	
WALPOLE, N	NH - RO	DCKINGHAM, VT BRIDGE NO. 058/043 STATE PRO		
ION CHURCH		TO THE CONNECTICUT RIVER	BRIDGE SHEET	$\neg$
REVISIONS AFT				
		DESIGNEDJGS9/2019CHECKEDJDGDRAWNLRB10/2019CHECKEDJDG	05/2020 FILE NUMBER 05/2020	1

JDG

QUANTITIES

ISSUE DATE

REV. DATE

05/2020 CHECKED SRW 05/2020

SHEET NO.

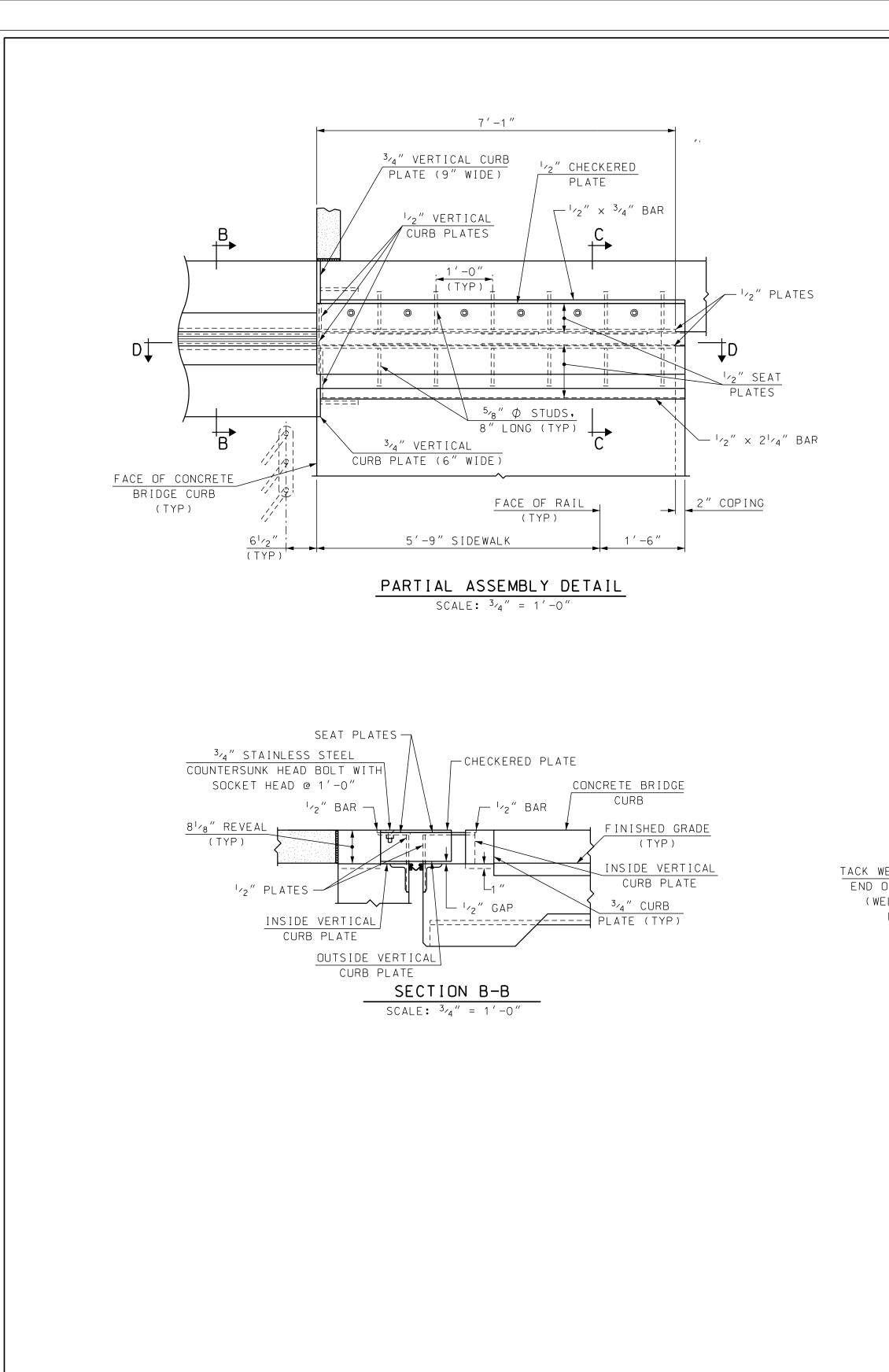
21

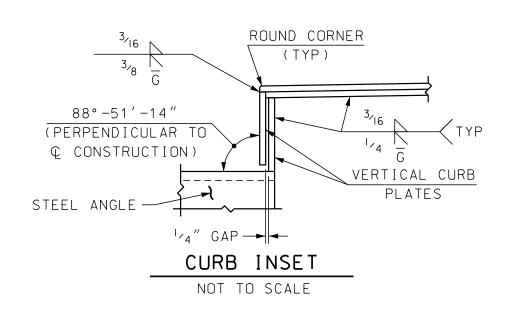
TOTAL SHEETS

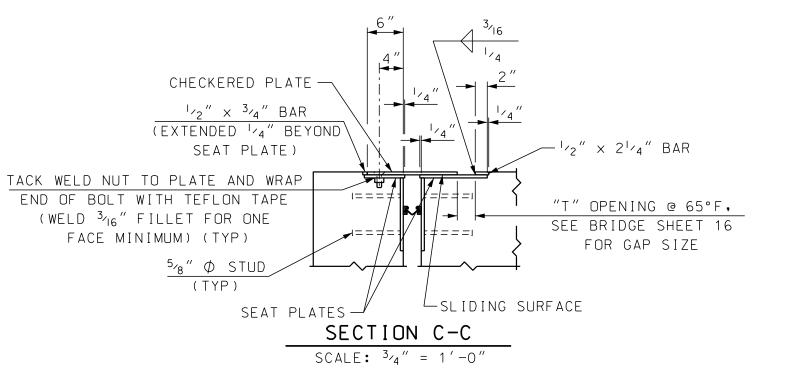
31

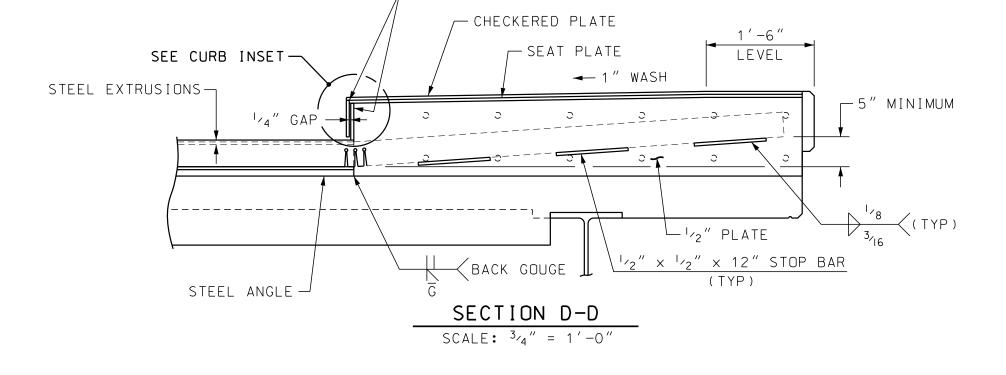
FEDERAL PROJECT NO.

X-A004(799)





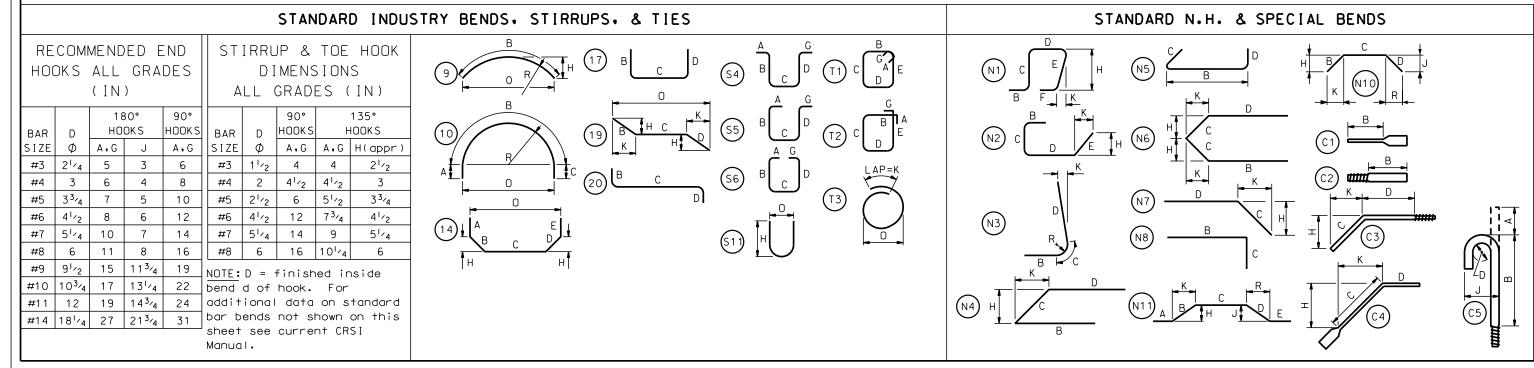




VERTICAL CURB PLATES

	STATE OF NEW HAMPSHIRE
	DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN
	TOWN     WALPOLE, NH - ROCKINGHAM, VT     BRIDGE NO.     058/043     STATE PROJECT     42277
	LOCATION CHURCH STREET OVER THE CONNECTICUT RIVER SIDEWALK PLATE DETAILS BRIDGE SHEET
	REVISIONS AFTER PROPOSAL BY DATE BY DATE 17 OF 19
	DESIGNED         JGS         9/2019         CHECKED         JDG         05/2020         FILE NUMBER           DRAWN         LRB         10/2019         CHECKED         JDG         05/2020         FILE NUMBER
	QUANTITIES     JDG     05/2020     CHECKED     SRW     05/2020       ISSUE DATE     FEDERAL PROJECT NO.     SHEET NO.     TOTAL SHEETS
SUBDIRECTORY.DGN LOCATORSHEET SCALEEnglish/EXP-JTS42277Exp Jt Sidewalk PlatesAS NOTED	REV. DATE         X-A004(799)         22         31

	-	1	REINFOR				E SHEET 1									
Mark	Size	Length	# Pieces	Туре	А	В	C	D	Е	F	G	Н	J	K	R	0
SW01	#5	2.50	96													
SW02	#5	6.24	49	17		2.58	1.08	2.58								
SW03	#5	20.92	8													
SW04	#5	11.08	8													
SW04	#5	15.25	8													
					0.02	2.59	1.00	2.50			0.02					
SW06	#5	7.92	3	S6	0.83	2.58	1.08	2.58			0.83					
SW07	#4	9.83	3	S5	0.67	0.83	6.83	0.83			0.67					
SW08	#4	4.58	3	S5	0.67	0.83	1.58	0.83			0.67					
SW09	#5	3.00	16	C1												
SW10	#5	3.00	16	C2												
SW10	#4	4.67	6	N10		1.50	1.67	1.50				1.08	1.08	1.08	1.08	
5 W 11	π <b>-</b>	4.07	0	INIU		1.50	1.07	1.50				1.00	1.00	1.00	1.00	
A01	#5	3.00	10	C1												
A02	#5	3.00	10	C2												
A03	#5	20.92	5													
A04	#5	11.08	5													
A05	#5	15.25	5													
A06	#5	2.08	50	17		0.50	1.08	0.50								
A07	#4	5.37	2	N11	1.50	0.35	1.67	0.35	1.50			0.25	0.25	0.25	0.25	
110/		5.57		1111	1.50	0.55	1.07	0.55	1.20			0.23	0.23	0.20	0.23	
S01	#5	4.63	139													
					0.00	0.75	2 (7	0.02			0.92					
S02	#5	6.17	50	S6	0.00	0.75	3.67	0.92			0.83					
S03	#5	9.83	10	S5	0.67	0.83	6.83	0.83			0.67					
S04	#5	4.58	10	S5	0.67	0.83	1.58	0.83			0.67					
S05	#6	3.83	40	C1												
S06	#6	3.83	40	C2												
S07	#6	20.92	20	_												
S07	#6		20													
		11.08														
S09	#6	15.25	20													
S10	#4	4.63	17													
		ARY TO	TAL WEIG	HT (lbs):												
<b>SECTIO</b> TEM #	N SUMMA DESCRIP	ΓΙΟΝ		#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL	
<b>SECTIO</b> ITEM # 544	N SUMM DESCRIP REINFOR	ΓΙΟΝ CING STE	EL	#3 0	0	0	0	0	0	0	0	0	0	0	0	
<b>SECTIO</b> TEM # 544 544.11	<b>DN SUMM</b> DESCRIP REINFOR MECH. CO	ΓΙΟΝ CING STE DNNECTO	EL	#3 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
<b>SECTIO</b> TEM # 544 544.11 544.2	N SUMM DESCRIP REINFOR MECH. CO EPOXY C	FION CING STE ONNECTO OATED	EL R	#3 0 0 0 0	0 0 107	0 0 2486	0 0 1419	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 4013	
<b>SECTIO</b> TEM # 544 544.11	<b>DN SUMM</b> DESCRIP REINFOR MECH. CO	FION CING STE ONNECTO OATED	EL R	#3 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
<b>SECTIO</b> TEM # 544 544.11 544.2 544.21	N SUMMA DESCRIP REINFOR MECH. CO EPOXY C EPOXY M	FION CING STE DNNECTO OATED IECH. CON	EL R N.	#3 0 0 0 0	0 0 107 0	0 0 2486 163	0 0 1419 461	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 4013	
SECTIO TEM # 544 544.11 544.2 544.21 DECK RI	N SUMM DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M	FION CING STE ONNECTO OATED IECH. CON	EL R J. 1	#3 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 DECK RI Mark	N SUMMA DESCRIP REINFOR MECH. CC EPOXY C EPOXY M EINFORCI Size	FION CING STE DNNECTO OATED IECH. CON NG - PIER Length	EL R J. 1 # Pieces	#3 0 0 0 0 0 Type	0 0 107 0	0 0 2486 163	0 0 1419 461	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 4013	0
SECTIO TEM # 44 44.11 44.2 44.21 DECK RI Mark D01E	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCII Size #6	ΓΙΟΝ CING STE ONNECTO OATED IECH. CON NG - PIER Length 20.83	EL R J. 1 # Pieces 16	#3 0 0 0 0 0 Type —	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	(
SECTIO TEM # 544 544.11 544.2 544.21 DECK RI Mark D01E D02E	N SUMMA DESCRIP REINFOR MECH. CO EPOXY C EPOXY M EINFORCII Size #6 #6	FION CING STE DNNECTO OATED IECH. CON NG - PIER Length 20.83 11.17	EL R J. 1 # Pieces 16 16	#3 0 0 0 0 0 0 Type 	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	C
SECTIO TEM # 544 544.11 544.2 544.21 544.21 544.21 50 50 50 50 50 50 50 50 50 50 50 50 50	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCII Size #6 #6 #6 #6	FION CING STE DNNECTO OATED IECH. CON NG - PIER Length 20.83 11.17 15.17	EL R N. 1 # Pieces 16 16 16 16	#3 0 0 0 0 0 Type 	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	(
SECTIO TEM # 544 544.11 544.2 544.21 DECK RI Mark D01E D02E	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCI Size #6 #6 #6 #6	FION CING STE DNNECTO OATED IECH. CON NG - PIER Length 20.83 11.17	EL R J. # Pieces 16 16 16 16 32	#3 0 0 0 0 Type — — C1	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	(
SECTIO TEM # 544 544.11 544.2 544.21 544.21 544.21 50 50 50 50 50 50 50 50 50 50 50 50 50	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCII Size #6 #6 #6 #6	FION CING STE DNNECTO OATED IECH. CON NG - PIER Length 20.83 11.17 15.17	EL R N. 1 # Pieces 16 16 16 16	#3 0 0 0 0 0 Type 	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 44 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D03E D04E	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCI Size #6 #6 #6 #6	ΓΙΟΝ CING STE DNNECTO OATED IECH. CON NG - PIER Length 20.83 11.17 15.17 3.00	EL R J. # Pieces 16 16 16 16 32	#3 0 0 0 0 Type — — C1	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	C
SECTIO TEM # 44 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D03E D04E	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCII Size #6 #6 #6 #6 #6 #6	ΓΙΟΝ CING STE DNNECTO OATED IECH. CON NG - PIER Length 20.83 11.17 15.17 3.00 3.00	EL R J. 1 # Pieces 16 16 16 32 32 32	#3 0 0 0 0 Type  C1 C2	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	(
SECTIO TEM # 44 44.11 44.2 44.21 0ECK RI Mark D01E D02E D03E D04E D05E D06E	N SUMMA DESCRIP REINFOR MECH. CC EPOXY C EPOXY M EINFORCI Size #6 #6 #6 #6 #6 #6 #6 #6	ГІОN СІNG STE DNNECTO ОАТЕD IECH. CON NG - PIER Length 20.83 11.17 15.17 3.00 3.00 6.83	EL R J. 1 # Pieces 16 16 16 32 32 32 32	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 444 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D03E D04E D05E	N SUMMA DESCRIPT REINFOR MECH. CO EPOXY C EPOXY M EINFORCII Size #6 #6 #6 #6 #6 #6 #6 #6 #5 #5	ГІОN СІNG STE DNNECTO ОАТЕD IECH. CON NG - PIER Length 20.83 11.17 15.17 3.00 3.00 6.83 4.17	EL R N. 1 # Pieces 16 16 16 32 32 32 32 8	#3 0 0 0 0 0 Type  C1 C2  C1 C1	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 DECK RI Mark D01E D02E D03E D04E D03E D04E D05E D06E D07E D08E	N SUMMA DESCRIPT REINFOR MECH. CC EPOXY C EPOXY M EINFORCIT Size #6 #6 #6 #6 #6 #6 #6 #6 #5 #5 #5	ΓΙΟΝ           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           3.00           6.83           4.17           2.67	EL R I. I I Pieces I6 I6 I6 I6 32 32 32 8 8 8	#3 0 0 0 0 0 Type  C1 C2  C1 C2  C1 C2	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 544.21 001E 002E 003E 004E 004E 005E 006E 007E 008E 009E	N SUMMA DESCRIP REINFOR MECH. CC EPOXY C EPOXY M Size #6 #6 #6 #6 #6 #6 #6 #6 #5 #5 #5 #5	FION           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           6.83           4.17           2.67           1.17	EL R	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 DECK RI Mark D01E D02E D03E D04E D03E D04E D05E D05E D05E D05E	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5	ΓΙΟΝ           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           3.00           6.83           4.17           2.67	EL R J. 1 # Pieces 16 16 16 32 32 32 8 8 8 8 8 8	#3 0 0 0 0 0 	0 0 107 0 BRIDG	0 0 2486 163 E SHEET B	0 0 1419 461 2 OF 19 C	0 0 0	0 0 0 E	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 44 44.11 44.2 44.21 44.21 0ECK RI Mark D01E D02E D03E D03E D04E D05E D05E D06E D07E D08E D09E	N SUMMA DESCRIP REINFOR MECH. CC EPOXY C EPOXY M Size #6 #6 #6 #6 #6 #6 #6 #6 #5 #5 #5 #5	FION           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           6.83           4.17           2.67           1.17	EL R	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET	0 0 1419 461 2 OF 19	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 4013 623	
SECTIO TEM # 44 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D04E D03E D04E D05E D05E D05E D06E D07E D08E D09E D09E D10E	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5	ΓΙΟΝ           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           3.00           6.83           4.17           2.67           1.17           5.67	EL R J. 1 # Pieces 16 16 16 32 32 32 8 8 8 8 8 8	#3 0 0 0 0 0 	0 0 107 0 BRIDG	0 0 2486 163 E SHEET B	0 0 1419 461 2 OF 19 C	0 0 0 0	0 0 0 E	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 444 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D04E D03E D04E D05E D05E D05E D05E	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5	ΓΙΟΝ           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           3.00           6.83           4.17           2.67           1.17           5.67	EL R J. 1 # Pieces 16 16 16 32 32 32 8 8 8 8 8 8	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET B	0 0 1419 461 2 OF 19 C	0 0 0 0	0 0 0 E	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 544.21 001E 002E 003E 003E 004E 004E 005E 005E 005E 006E 007E 008E 009E 009E 010E 011E	N SUMML         DESCRIP         REINFOR         MECH. CC         EPOXY C         EINFORCII         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #5         #5         #5         #5         #4	FION           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           6.83           4.17           2.67           1.17           5.67           4.33           2.75	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 17	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET B	0 0 1419 461 2 OF 19 C	0 0 0 0	0 0 0 E	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 DECK RI Mark D01E D02E D03E D03E D03E D04E D03E D04E D05E D05E D05E D05E D05E D05E D05E D05	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #4         #4	FION           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           6.83           4.17           2.67           1.17           5.67           4.33           2.75           3.25	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 17 17 17	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET B 0.58	0 0 1419 461 2 OF 19 C	0 0 0 D 1.67	0 0 0 E	0 0 0 0	0 0 0 0 G	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 DECK RI Mark D01E D02E D03E D03E D04E D04E D04E D05E D05E D05E D05E D05E D05E D05E D05	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #4         #4         #4	FION         CING STE         DNNECTO         OATED         IECH. CON         NG - PIER         Length         20.83         11.17         15.17         3.00         3.00         6.83         4.17         2.67         1.17         5.67         4.33         2.75         3.25         11.25	EL R I. I I Pieces I6 I6 I6 I6 I6 32 32 32 8 8 8 8 8 8 8 8 8 17 17 9	#3 0 0 0 0 0 	0 0 107 0 BRIDGI A 1.25	0 0 2486 163 E SHEET B 0.58 0.58	0 0 1419 461 2 OF 19 C 0.83 6.83	0 0 0 0 1.67	0 0 0 E	0 0 0 0	0 0 0 0 G 0 0.50	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 444 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D03E D03E D04E D03E D04E D05E D05E D05E D05E D05E D05E D05E D05	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #4         #4	FION           CING STE           DNNECTO           OATED           IECH. CON           NG - PIER           Length           20.83           11.17           15.17           3.00           6.83           4.17           2.67           1.17           5.67           4.33           2.75           3.25	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 17 17 17	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG	0 0 2486 163 E SHEET B 0.58	0 0 1419 461 2 OF 19 C	0 0 0 D 1.67	0 0 0 E	0 0 0 0	0 0 0 0 G	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 44 44.11 44.2 44.21 DECK RI Mark D01E D02E D03E D04E D04E D05E D05E D05E D05E D06E D07E D07E D08E D09E D10E D11E D12E D13E D14E	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #5         #4         #4         #4	FION         CING STE         DNNECTO         OATED         IECH. CON         NG - PIER         Length         20.83         11.17         15.17         3.00         3.00         6.83         4.17         2.67         1.17         5.67         4.33         2.75         3.25         11.25	EL R I. I I Pieces I6 I6 I6 I6 I6 32 32 32 8 8 8 8 8 8 8 8 8 17 17 9	#3 0 0 0 0 0 	0 0 107 0 BRIDGI A 1.25	0 0 2486 163 E SHEET B 0.58 0.58	0 0 1419 461 2 OF 19 C 0.83 6.83	0 0 0 0 1.67	0 0 0 E	0 0 0 0	0 0 0 0 G 0 0.50	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 DECK RI Mark D01E D02E D03E D03E D03E D04E D03E D05E D05E D05E D05E D05E D05E D05E D05	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #5         #5         #5         #5         #4         #4         #4         #4         #4         MA	FION         CING STE         DNNECTO         OATED         IECH. CON         NG - PIER         Length         20.83         11.17         15.17         3.00         3.00         6.83         4.17         2.67         1.17         5.67         4.33         2.75         3.25         11.25         5.92	EL R I. I I Pieces I6 I6 I6 I6 I6 32 32 32 8 8 8 8 8 8 8 8 8 17 17 9	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG A 1.25 1.25	0 0 2486 163 E SHEET B 0.58 0.58	0 0 1419 461 2 OF 19 C 0.83 0.83 0.83 1.58	0 0 0 0 1.67	0 0 0 E 1.25	0 0 0 F	0 0 0 0 G 0 0 0 0 0 0 0 50 0.50	0 0 0 H		0 0 0 K	0 0 4013 623 R 	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 DOLE DOL	N SUMMI         DESCRIP         REINFOR         MECH. CC         EPOXY C         EINFORCII         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #4         #4         #4         #4	FION         CING STE         DNNECTO         OATED         IECH. CON         NG - PIER         Length         20.83         11.17         15.17         3.00         3.00         6.83         4.17         2.67         1.17         5.67         4.33         2.75         3.25         11.25         5.92	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 8 9 9 9	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDGI A 1.25	0 0 2486 163 E SHEET B 0.58 0.58	0 0 1419 461 2 OF 19 C 0.83 6.83	0 0 0 0 1.67	0 0 0 E	0 0 0 0	0 0 0 0 G 0 0.50	0 0 0 0	0 0 0	0 0 0 0 K	0 0 4013 623	
SECTIO TEM # 544 544.11 544.2 544.21 544.21 DECK RI Mark D01E D02E D03E D03E D03E D04E D03E D05E D05E D05E D05E D05E D05E D05E D05	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY M         Size         #6         #6         #6         #6         #5         #5         #5         #5         #4         #4         #4         #4         #4         MA	ГІОN СІNG STE ONNECTO OATED IECH. CON NG - PIER Length 20.83 11.17 15.17 3.00 3.00 6.83 4.17 2.67 1.17 5.67 4.33 2.75 3.25 11.25 5.92 АRY ТОТ ГІОN	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 <b>FAL WEIG</b>	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG A 1.25 1.25	0 0 2486 163 E SHEET B 0.58 0.58	0 0 1419 461 2 OF 19 C 0.83 0.83 0.83 1.58	0 0 0 0 1.67	0 0 0 E 1.25	0 0 0 F	0 0 0 0 G 0 0 0 0 0 0 0 50 0.50	0 0 0 H		0 0 0 K	0 0 4013 623 R 	
SECTIO TEM # 344. 344.11 344.2 344.21 DECK RI Mark D01E D02E D03E D04E D03E D04E D05E D05E D06E D07E D08E D07E D08E D09E D10E D10E D11E D12E D12E D13E D14E D13E D14E D15E	N SUMML         DESCRIP         REINFOR         MECH. CC         EPOXY C         EINFORCII         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #4	ГІОN СІNG STE ONNECTO OATED IECH. CON IECH. IECH.	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 8 8 8 8 8	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG A 1.25 1.25 1.25	0 0 2486 163 E SHEET B 0.58 0.58 1.50 1.42 #5	0 0 1419 461 2 OF 19 C 0.83 0.83 6.83 1.58 #6	0 0 0 0 1.67 1.17 1.17 1.17	0 0 0 E 1.25	0 0 0 F	0 0 0 0 G 0 50 0.50 0.50 0.50	0 0 0 H	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 K K 0.92	0 0 4013 623 R R	
SECTIO TEM # 44 44.11 44.2 44.2 44.21 DECK RI Mark D01E D02E D03E D04E D03E D04E D05E D05E D05E D06E D07E D08E D07E D08E D09E D10E D11E D12E D13E D13E D13E D14E D15E SECTIO TEM #	N SUMML         DESCRIPT         REINFOR         MECH. CO         EPOXY C         EPOXY C         EINFORCIN         Size         #6         #6         #6         #6         #5         #5         #5         #5         #5         #4     <	ГІОN СІNG STE DNNECTO ОАТЕD IECH. CON NG - PIER Length 20.83 11.17 15.17 3.00 3.00 6.83 4.17 2.67 1.17 5.67 4.33 2.75 3.25 11.25 5.92 АRY ТОТ ГІОN СІNG STE DNNECTO	EL R I # Pieces 16 16 16 16 32 32 32 8 8 8 8 8 8 8 8 8 8 8 8 8	#3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 107 0 BRIDG A 1.25 1.25 1.25	0 0 2486 163 E SHEET B 0.58 0.58 1.50 1.42 #5 0	0 0 1419 461 2 OF 19 C 0.83 0.83 0.83 1.58 #6 0	0 0 0 0 1.67 1.17 1.17 1.17	0 0 0 E 1.25 #8 0	0 0 0 F 	0 0 0 0 0 0 0 0 0 0 0 0 0 50 0.50 0.50	0 0 0 H H 0.92 0.92	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 K K 0.92 #18 0	0 0 4013 623 R R	



		5. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCE	PI "A" AND "G" UN	#6	1.502 0.750	0.44						
		STANDARD 180° AND 135° HOOKS.		#7	2.044 0.875		LOCATION CHURCH STREET OVER	R CONNE	CTICUT RIVER			
		6. "J" DIMENSION ON 180° HOOKS TO BE SHOWN O		0 #8	2.670 1.000	0.79		NEO				BRIDGE SHEET
2		RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS 7. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONL		#9	3.400 1.128			INFU	KUINU S	SCHEDULE		10 05 10
<i>y</i>		MAINTAIN CLEARANCES.	I WHEN NECESSARI IU		4.303 1.270		REVISIONS AFTER PROPOSAL			BY DATE	BY DATE	18 OF 19
-		8. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "	H" AND "K" MUST BE SH		5.313 1.410				DESIGNED	JDG 05/2020 CHECKED	JDG 05/2020	FILE NUMBER
					7.650 1.693				DRAWN	JTB 05/2020 CHECKED	JDG 05/2020	
		▲ DENOTES BARS TO BE CUT IN FIELD, AS ▲ DENOTES BARS TO BE BENT IN FIELD.	REQUIRED.		13.600 2.257				QUANTITIES	JDG 05/2020 CHECKED	JDG 05/2020	
.4)			SUBDIRECTORY	.DGN LOCAT	OR SHE	ET SCALE			ISSUE DATE	FEDERAL PROJECT NO	SHEET NO.	TOTAL SHEETS
	ŧ	-	BRC	42277reinf sc	-	S NOTED			REV. DATE	X-A004(799)	23	31
								1	I			

NOTES: 1. FIGURES IN CIRCLE SHOW TYPE OF BEND. 2. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE

IN SIZES UP TO AND INCLUDING #18 SHALL CONFORM TO THE REQUIREMENTS

REINFORCEMENT",AASHTO M 31-94 (ASTM A615).

SHOULD HAVE LIMITS INDICATED.

OF THE "SPECIFICATIONS FOR DEFORMED BILLET - STEEL BARS FOR CONCRETE

3. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS

AND HOOKS AND OTHER STANDARD PRACTICE REFER TO THE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".

4. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES

5. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON

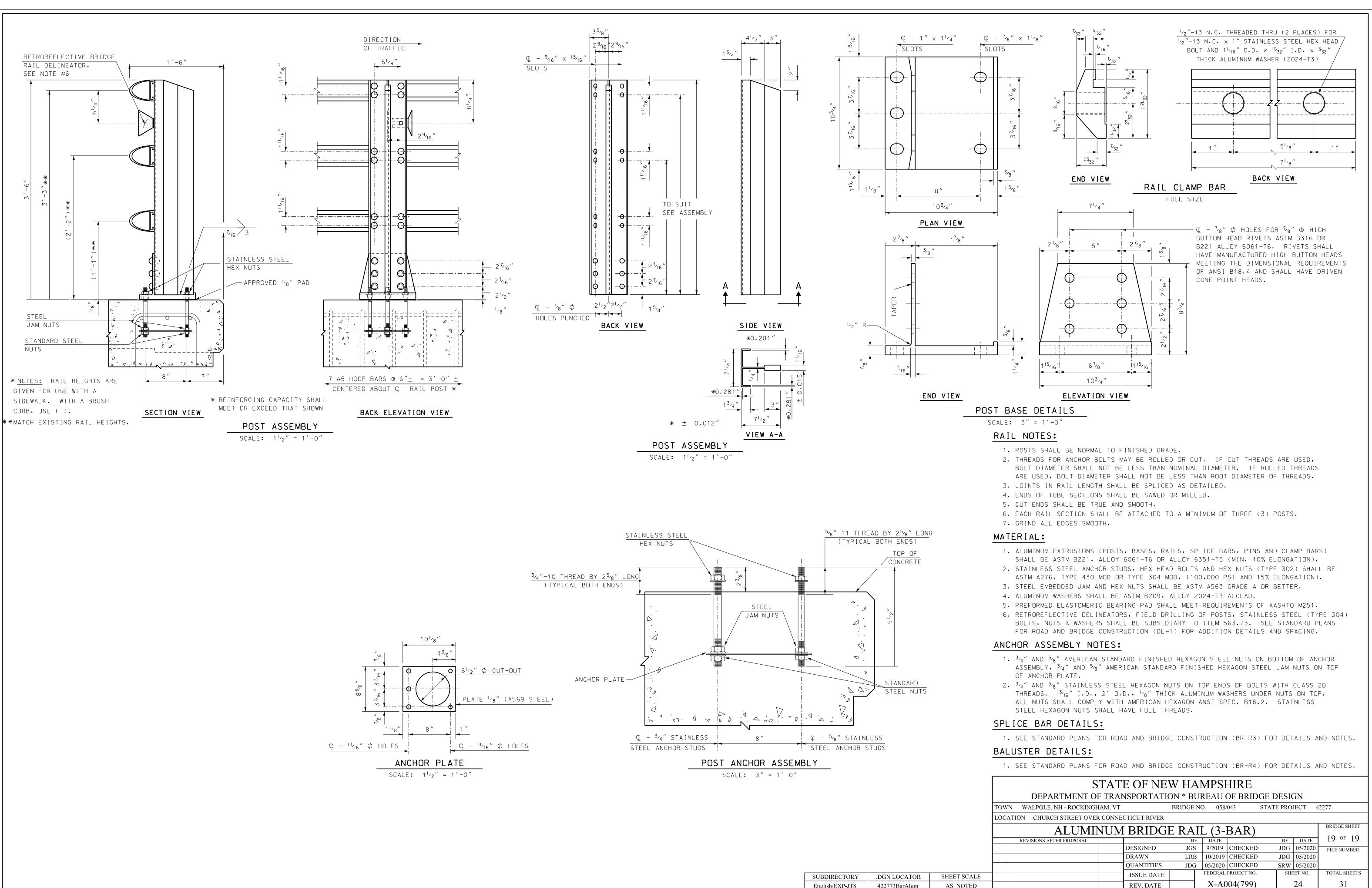
BAR WEIGHT DIAM CROSS SECT SIZE LBS/FT IN AREA IN<sup>2</sup> #3 0.376 0.375 0.11 #4 0.668 0.500 0.20 #5 1.043 0.625 0.31 #6 1.502 0.750 0.44

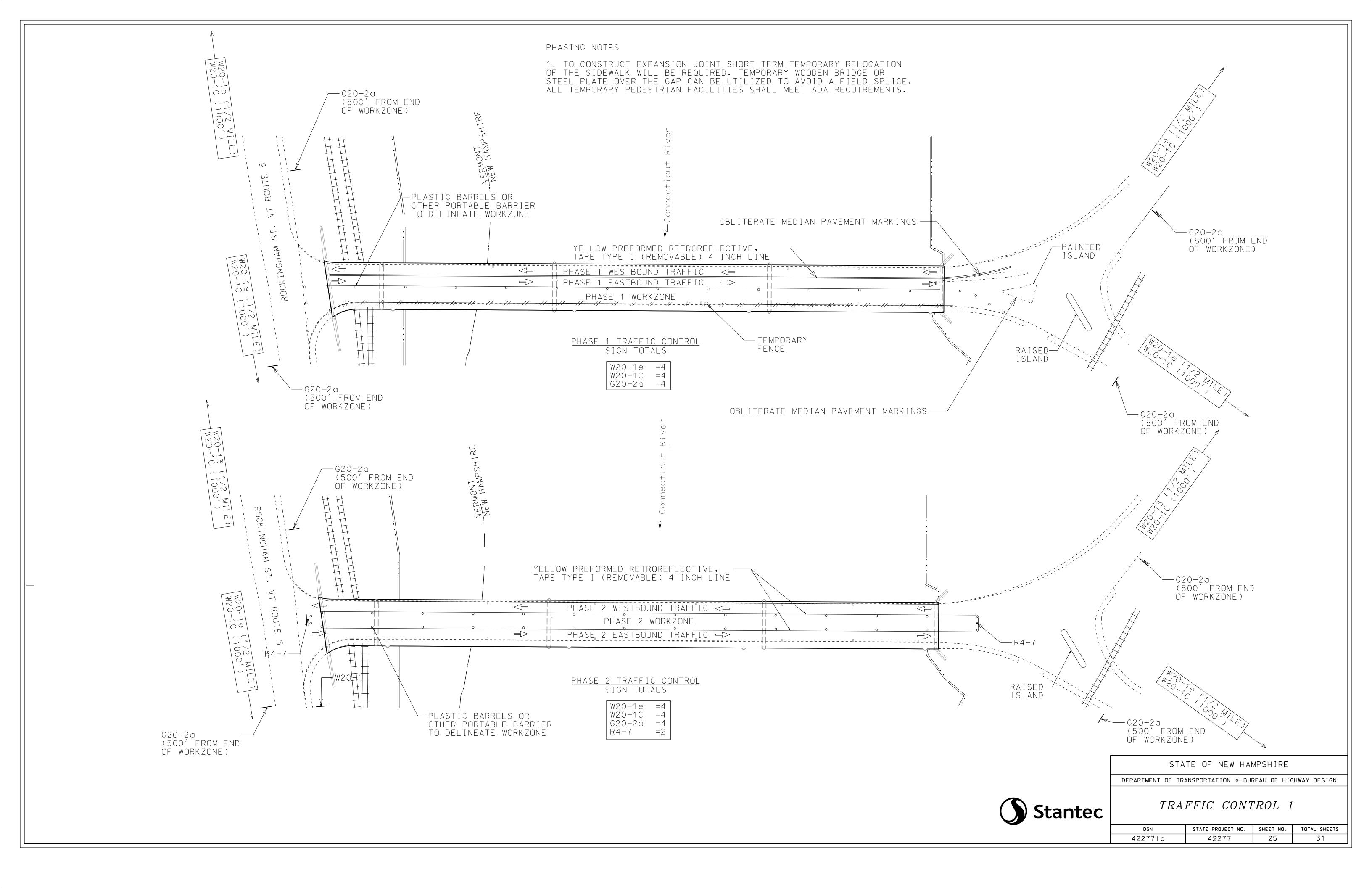
ASTM STANDARD REINFORCING BARS

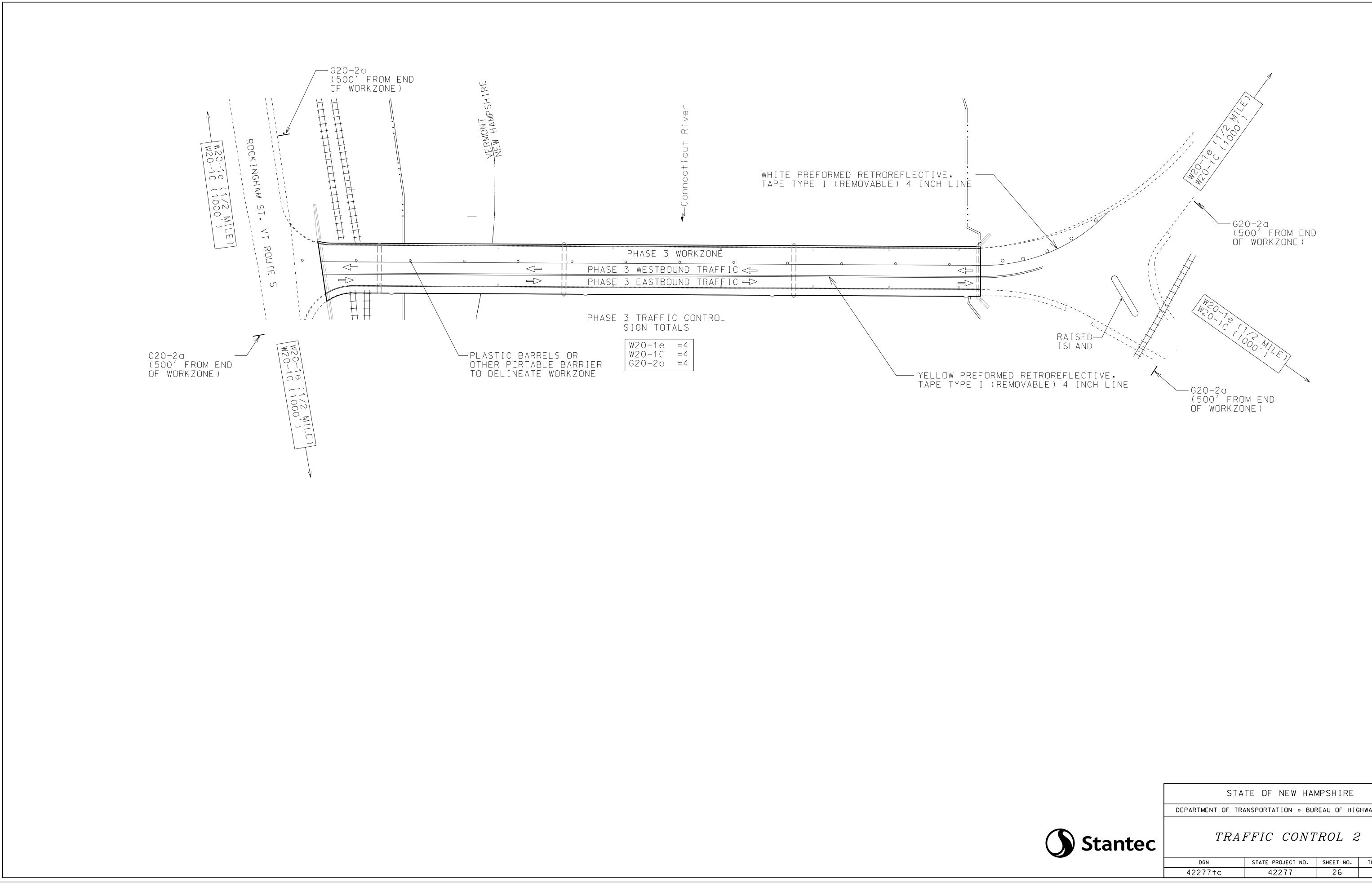


## STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION \* BUREAU OF BRIDGE DESIGN TOWN WALPOLE, NH - ROCKINGHAM, VT BRIDGE NO. 058/043 STATE PROJECT 42277

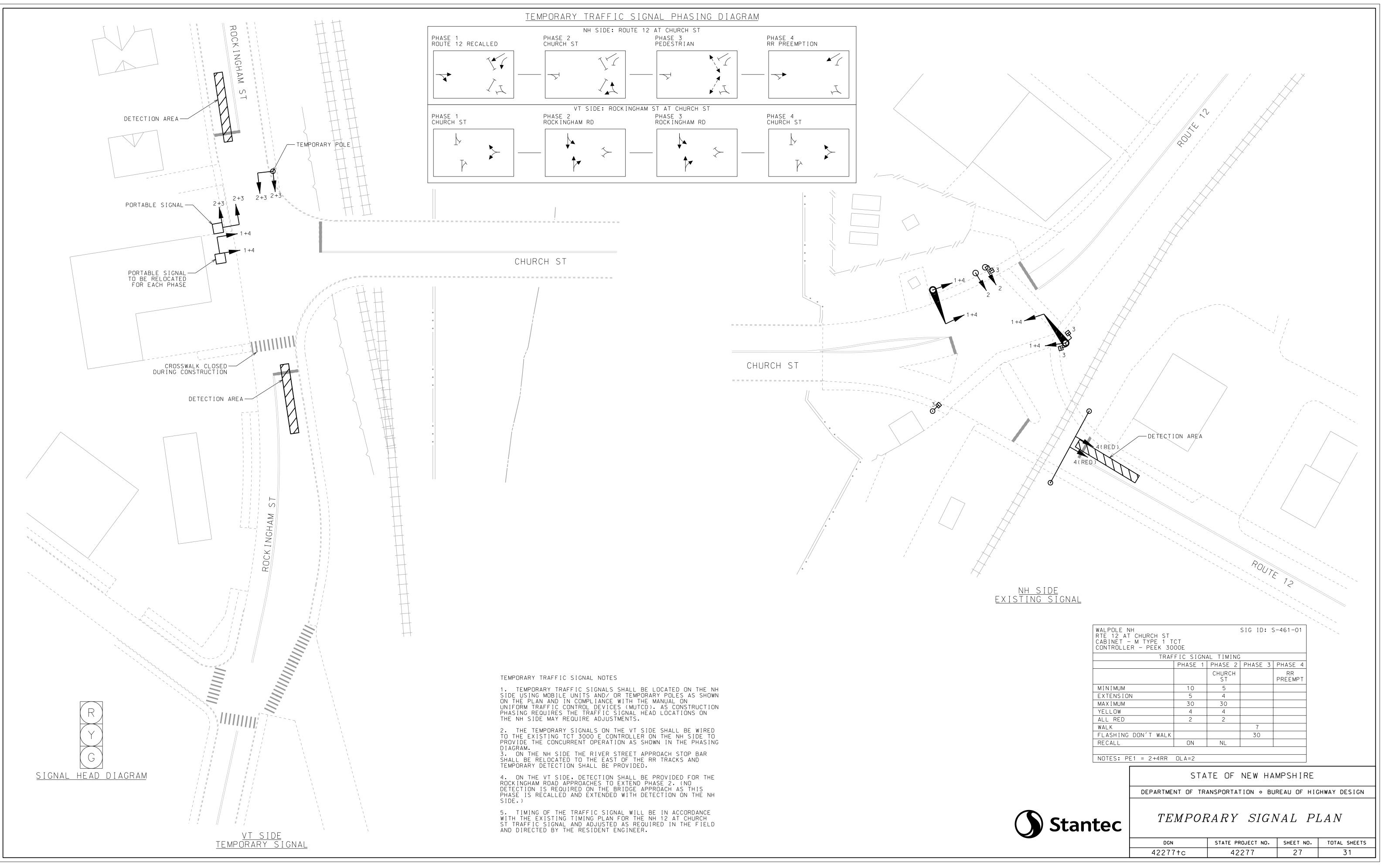






STATE PROJECT NO. SHEET NO. TOTAL SHEETS 31

DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN



SIGN SIZE		TEXT DIMENSIONS				POSTS PER SIGN	SIGN SIZE	TEXT DI	MENSIONS	
ITEM # IDENT # WIDTH HEIGHT (inch) (inch)	TEXT	LETTER HEIGHT (inch) UC LC CAPS	SHIELD SIZE (inch) ARROW (inch)	NUMERAL # SIGNS (inch) REQ'D	SIGN AREA (SQ. FT.) NOM TOTAL AREA AREA	STEEL I-BEAM CONCRETE BASE 4" ALUMINUM U-CHANNEL-GALV.	ITEM # IDENT # WIDTH HEIGHT (inch) (inch)	IEXI (i	R HEIGHT nch) SHIELD SIZE (inch) ARROW (inch)	NUMERAL # SIGNS (inch) # SIGNS SIGN ARE (SQ. FT.)
619.1 W20-1C 48 48	ROAD WORK 1000 FT	7 D		4	16.0 64.0	2 BLACK / ORANGE	E 619.1 M6-3 21 15			8 2.19 1
619.1 W20-1e 48 48	ROAD WORK 1/2 MILE	7 D		4	16.0 64.0	2 BLACK / ORANGE	E 619.1 M4-6 24 12	END	6D	2 2.00
619.1 G20-2a 36 18	END ROAD WORK	4 C		4	4.50 18.00	2 BLACK / ORANGE	E 619.1 M6-1L 21 15			5 2.19 1
619.1 R9-11a 24 12	SIDEWALK CLOSED	2C		2	2.00 4.00	BLACK / WHITE 2 MOUNTED ON BARRICADE	E 619.1 M6-1R 21 15			1 2.19 2
619.1 R5-20 (M) 36 36	NO TRAILER TRUCKS	7 D 6 D 6 D		4	9.00 36.00	2 BLACK / WHITE	E 619.1 M5-2R 21 15			2 2.19
619.1 W5-2 48 48	NARROW BRIDGE	8 D		4	16.0 64.0	BLACK / YELLOW MOUNT BELOW R5-2A(M)				5 2.19 1
619.1 M4-4 24 12	TRUCK	6C		26	2.00 52.00	BLACK / ORANGE MOUNT WITH DETO ROUTE ASSEMBLY				1 2.19 2
619.1 M4-8 24 12	DETOUR	6B		26	2.00 52.00	BLACK / ORANGE MOUNT WITH DETO ROUTE ASSEMBLY				2 2.19
619.1 M1-5 (12) 24 24	12	120		15	4.00 60.00	2 BLACK /WHITE	SPECIFIED. ALL GUIDE SIGNS V DEMOUNTABLE TEXT AND BORI 2. THERE SHALL BE NO GAPS IN T 3. ALL REGULATORY AND WARNIN	GENERAL NOTES TYPE III TEXT AND BORDER WITH TYPE III BACKO WITH ITEM NUMBERS 615.01 OR 615.04 (TYPE A & DER AS PRESCRIBED IN THE SPECIFICATIONS. THE BORDERS OF ALL GUIDE SIGNS. NG SIGNS SHALL HAVE TYPE I BACKGROUND SHA	TYPE AA) SHALL HAVE FLAT SHEET IEETING, UNLESS OTHERWISE SPECI	FIED.
619.1 M1-4 (5) 24 24	5	12D		1 1	4.00 44.00	2 BLACK /WHITE	FRONT FACE. THESE LETTERS 5. REFER TO THE "STANDARD HIG BORDERS, ETC. 6. REFER TO THE "STANDARD PLA DETAILS OF PERMANENT SIGN 7. THE MINIMUM SIGN HEIGHT FO	AIN THE SIZE AND DATE OF MANUFACTURE, LOO S AND NUMBERS SHALL BE 2" NON-REFLECTIVE SHWAY SIGNS MANUAL" AS PUBLISHED BY THE U ANS FOR ROAD AND BRIDGE CONSTRUCTION" AS NG STANDARDS. R A ROADSIDE SIGN IN A RURAL DISTRICT SHAL LL BE IN ACCORDANCE WITH THE LATEST EDITION	WHITE (I.E., 3-98 10' x 15'). ISDOT-FHWA FOR EXACT DETAILS OF S PUBLISHED BY THE NHDOT FOR EX. - BE INCREASED FROM 5 FEET TO 6 F	ACT

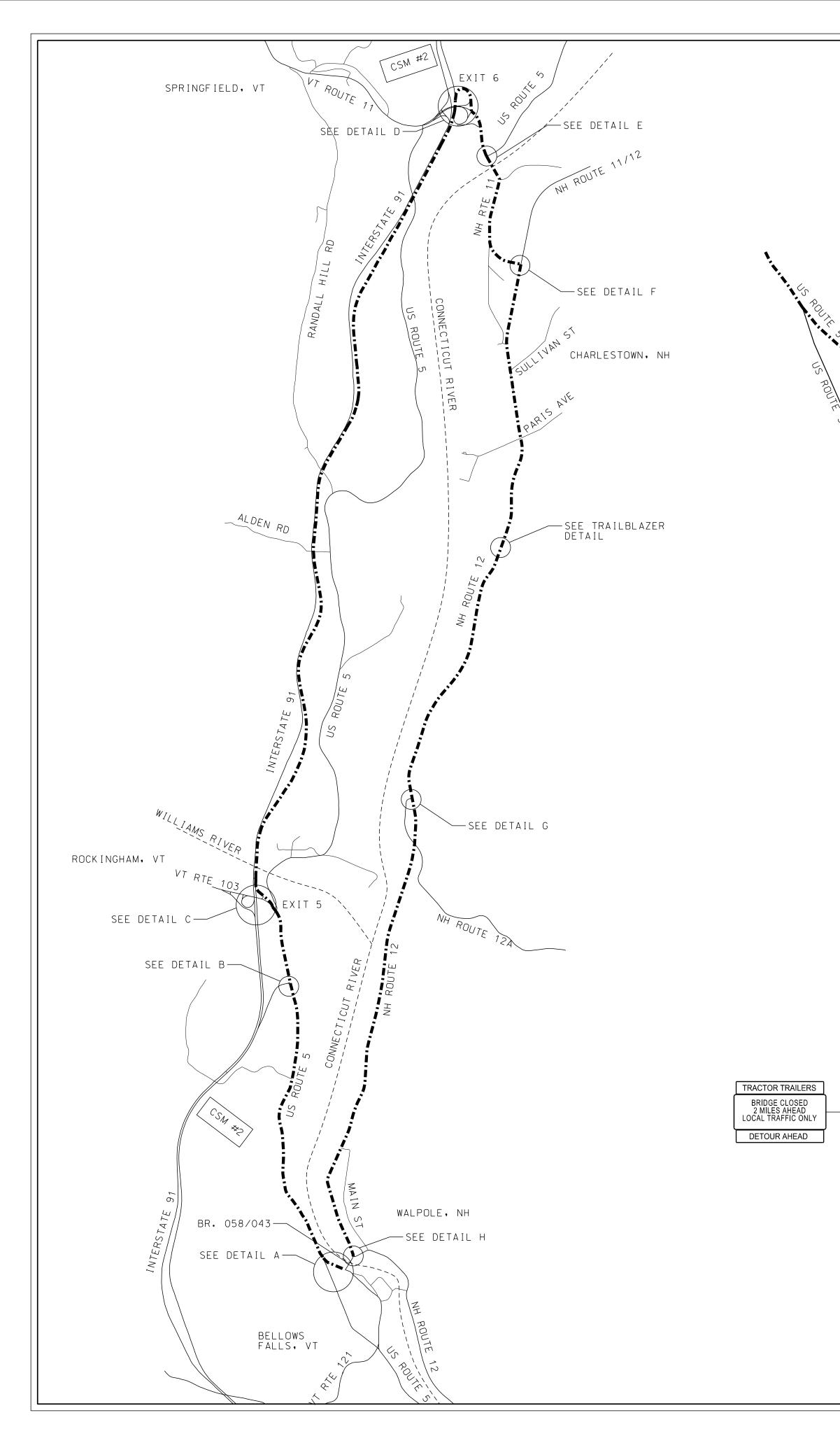
	TEXT DIMENSIONS									POSTS PER SIGN			SIGN		
	LETTER HEIGHT (inch)			SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D		AREA FT.)	BREAKAWAY	STEEL I-BEAM	CONCRETE BASE	4" ALUMINUM	U-CHANNEL-GALV.	REMARKS
	UC	LC	CAPS					NOM AREA	TOTAL AREA	BREAK	STEEL	CONCF	4" ALU	U-CHA	
							8	2.19	17.50						BLACK / ORANGE MOUNT WITH DETOUR ROUTE ASSEMBLY
			6 D				2	2.00	4.00						BLACK / ORANGE Mount with detour Route Assembly
							5	2.19	10.94						BLACK / ORANGE MOUNT WITH DETOUR ROUTE ASSEMBLY
							1	2.19	2.19						BLACK / ORANGE MOUNT WITH DETOUR ROUTE ASSEMBLY
							2	2.19	4.38						BLACK / ORANGE MOUNT WITH DETOUR ROUTE ASSEMBLY
							5	2.19	10.94						BLACK / ORANGE MOUNT WITH DETOUR ROUTE ASSEMBLY
							1	2.19	2.19						BLACK / ORANGE MOUNT WITH DETOUR ROUTE ASSEMBLY
							2	2.19	4.38						BLACK / ORANGE Mount with detour Route Assembly
L NI	OTE	s	1			<u> </u>									
MITH TYF DR 615.0 SPECIFI SIGNS. I BACKO	PE III BA( 4 (TYPE ) CATION GROUND	 CKGROI A & TYP S. SHEET	e aa) sha Tng, unle	TING, UNLES ALL HAVE FLA ESS OTHERV LOWER LEF	AT SHEET VISE SPECIF	IED.									
" NON-RI	EFLECTI	VE WHI	TE (I.E., 3-9	98 10' x 15'). FOR EXACT I					(	STAT	E C	)FN	ΕW	HAM	PSHIRE
CONSTR	RUCTION	" AS PU	BLISHED	BY THE NHD	OT FOR EXA	ACT		D	EPARTMEN	T OF	TRAN	SPOR	ΓΑΤΙΟ	N 0 {	BUREAU OF TRAFFIC

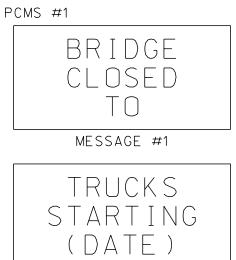
SIGN TEXT LAYOUT 1

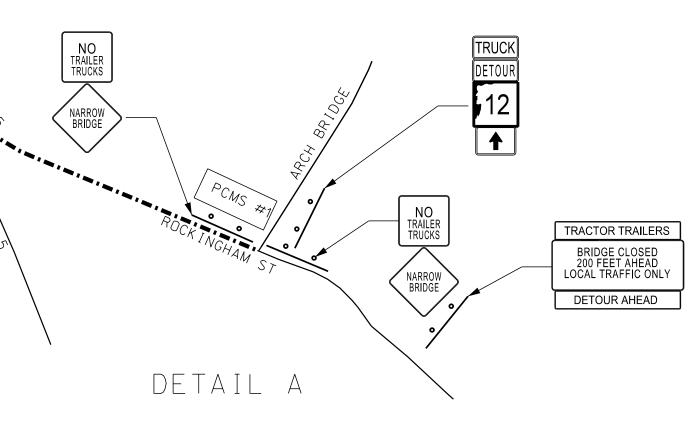
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
42277+yp		28	31

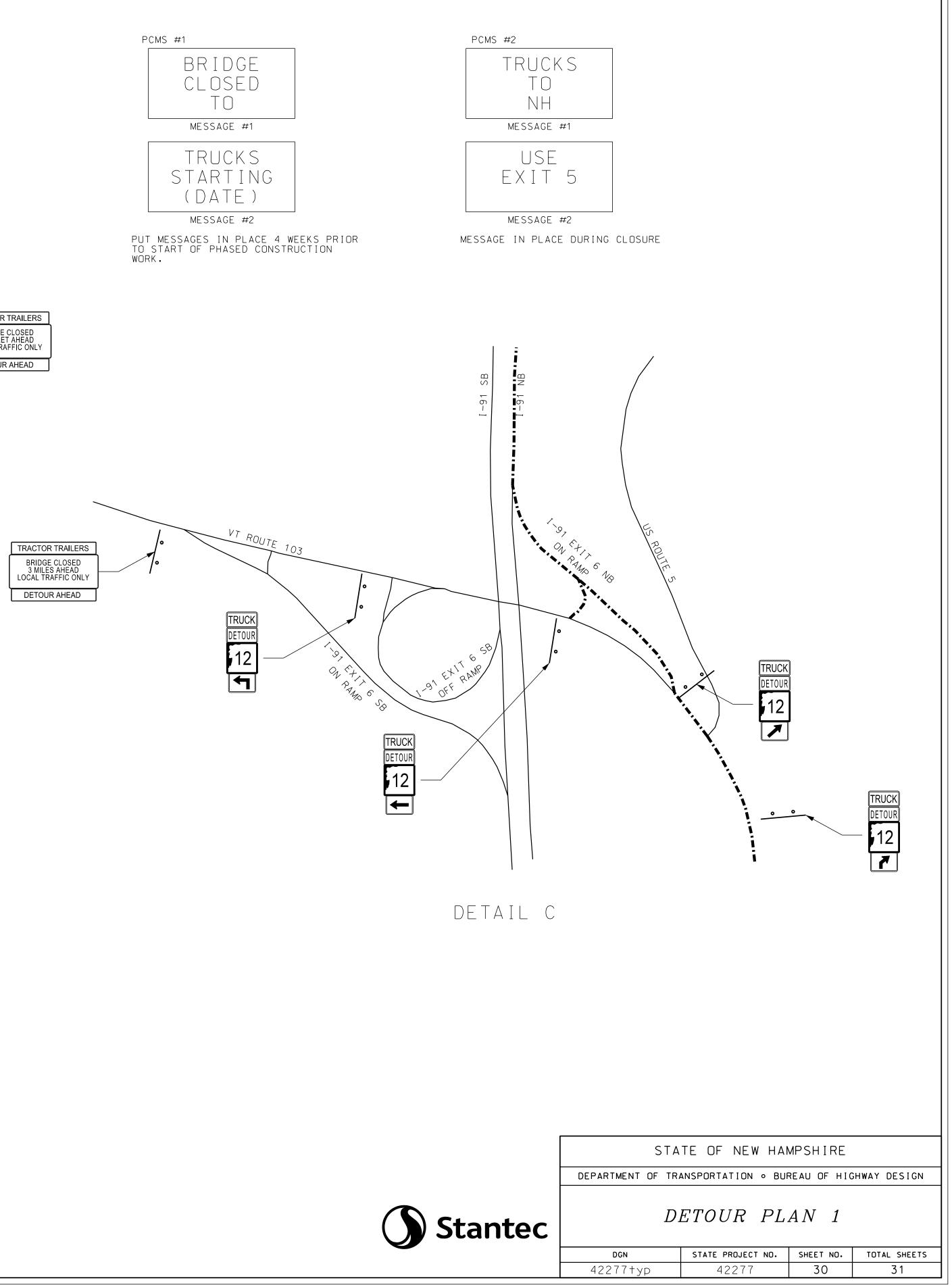
	SIGN SIZE		TEXT DIMENSIONS							POSTS F	PER SIGN		SIGN SIZE	TEXT	DIMENSIONS	POSTS PER S	SIGN	
	IDTH HEIGHT nch) (inch)	TEXT	LETTER HEIGHT (inch) UC LC CAPS	SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.) NOM TOT AREA AR	BREAKAWAY	STEEL I-BEAM	CONCRETE BASE H. ALUMINUM H.	# IDENT	#     WIDTH (inch)     HEIGHT (inch)     TEXT		TER HEIGHT (inch)       SHIELD SIZE (inch)       ARROW (inch)       NUMERAL # SIGN (EQ'E)         LC       CAPS       CAPS       Image: Cape of the second se	BREAKAW STEEL I-BH CONCRETH	4" ALUMINUM U-CHANNEL-GALV.	REMARKS
619.1 6	60 12	TRACTOR TRAILERS	5C				5	5.00 25.	00		BLACK / ORANGE MOUNT WITH R11-3(M)							
619.1 6	60 12	DETOUR AHEAD	5C				5	5.00 25.	00		BLACK / ORANGE MOUNT WITH R11-3(M)							
619.1 R11-3 (M)	60 30	BRIDGE CLOSED 200 FEET AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C				1	12.50 12.	50		2 BLACK / WHITE							
619.1 R11-3 (M)	60 30	BRIDGE CLOSED 500 FEET AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C				1	12.50 12.	50		2 BLACK / WHITE							
619.1 R11-3 (M)	60 30	BRIDGE CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C				1	12.50 12.	50		2 BLACK / WHITE							
619.1 R11-3 (M)	60 30	BRIDGE CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C				1	12.50 12.	50		2 BLACK / WHITE							
619.1 R11-3 (M)	60 30	BRIDGE CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C				1	12.50 12.	50		2 BLACK / WHITE							
												SPEC DEMO 2. THEF 3. ALL I 4. ALL O FRO 5. REFE BOR 6. REFE DET/ 7. THE	GENERAL N GUIDE SIGNS SHALL HAVE TYPE III TEXT AND BORDER WITH TY SIFIED. ALL GUIDE SIGNS WITH ITEM NUMBERS 615.01 OR 615.0 DUNTABLE TEXT AND BORDER AS PRESCRIBED IN THE SPECIF RE SHALL BE NO GAPS IN THE BORDERS OF ALL GUIDE SIGNS. REGULATORY AND WARNING SIGNS SHALL HAVE TYPE I BACK GUIDE SIGNS SHALL CONTAIN THE SIZE AND DATE OF MANUFA NT FACE. THESE LETTERS AND NUMBERS SHALL BE 2" NON-F ER TO THE "STANDARD HIGHWAY SIGNS MANUAL" AS PUBLISH DERS, ETC. ER TO THE "STANDARD PLANS FOR ROAD AND BRIDGE CONST AILS OF PERMANENT SIGNING STANDARDS. MINIMUM SIGN HEIGHT FOR A ROADSIDE SIGN IN A RURAL DIS DTHER SIGN HEIGHTS SHALL BE IN ACCORDANCE WITH THE L	TPE III BAC 24 (TYPE / FICATIONS CGROUND ACTURE, L REFLECTIV ED BY TH RUCTION	CKGROUND SHEETING, UNLESS OTHERWISE A & TYPE AA) SHALL HAVE FLAT SHEET S. SHEETING, UNLESS OTHERWISE SPECIFIED. OCATED IN THE LOWER LEFT CORNER OF THE VE WHITE (I.E., 3-98 10' x 15'). E USDOT-FHWA FOR EXACT DETAILS OF " AS PUBLISHED BY THE NHDOT FOR EXACT HALL BE INCREASED FROM 5 FEET TO 6 FEET.	STATE OF NE Ent of transport, IGN TEX7	ATION º BUREAU	J OF TRAFFIC

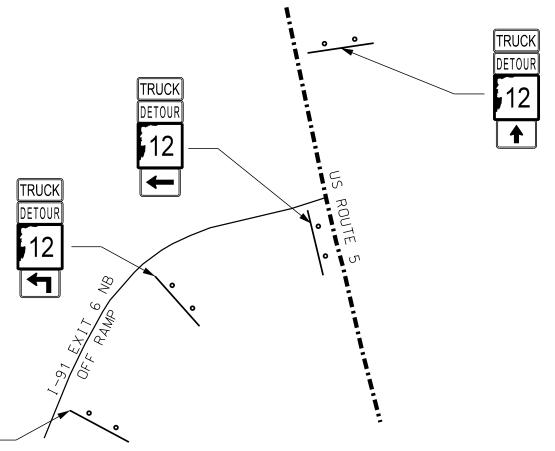
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
42277†yp		29	31



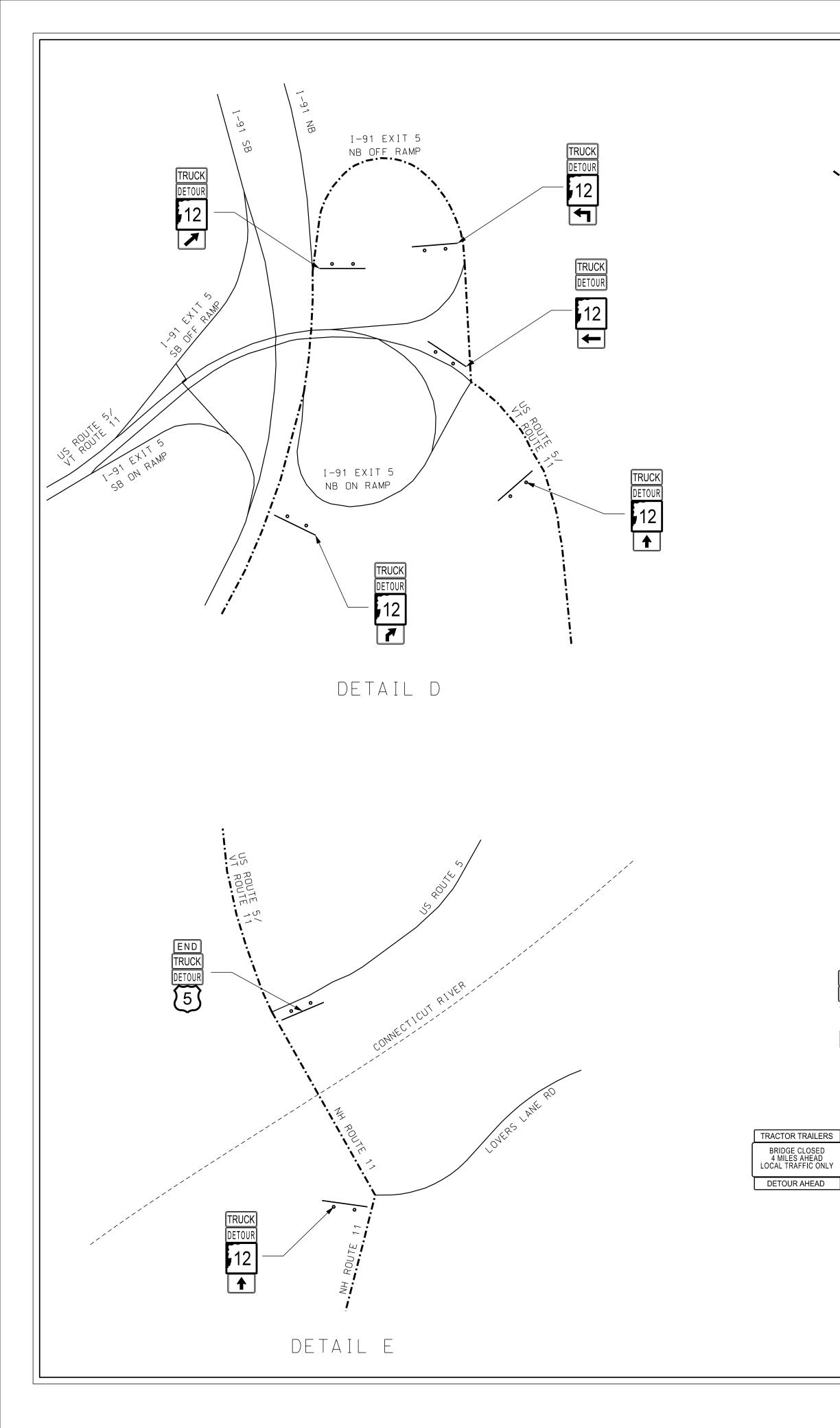


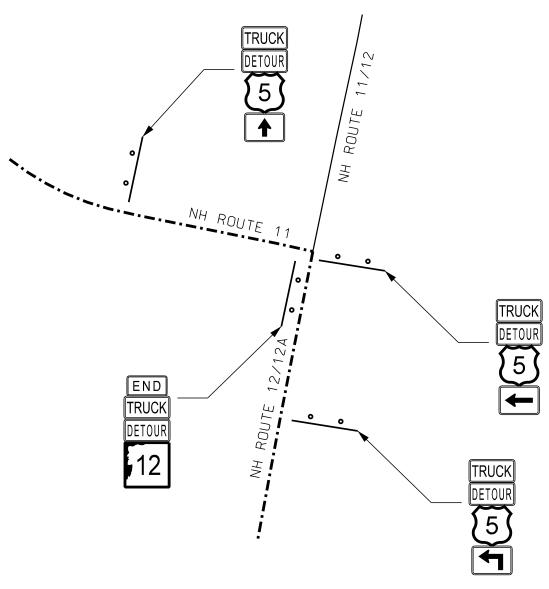




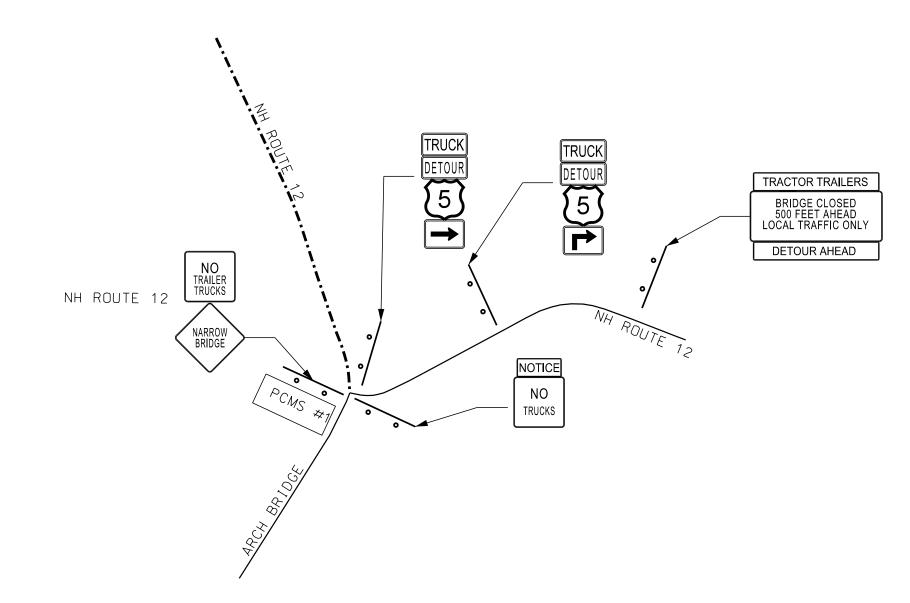


DETAIL B

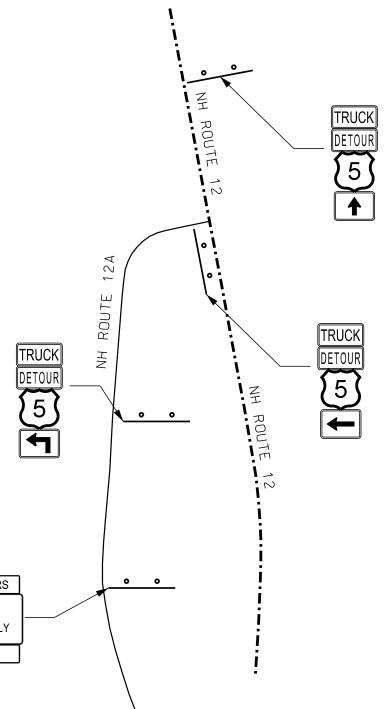




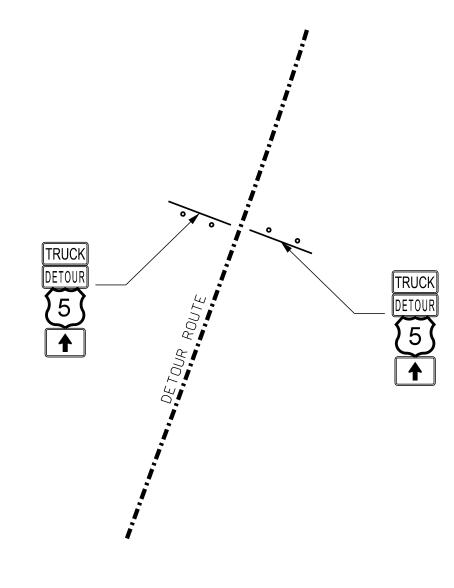








DETAIL G



TRAILBLAZER DETAIL



DI	ETOUR PL	AN 2	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
42277†yp	42277	31	31

	DEPARTMENT	OF	ΤF
tantec			D

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN