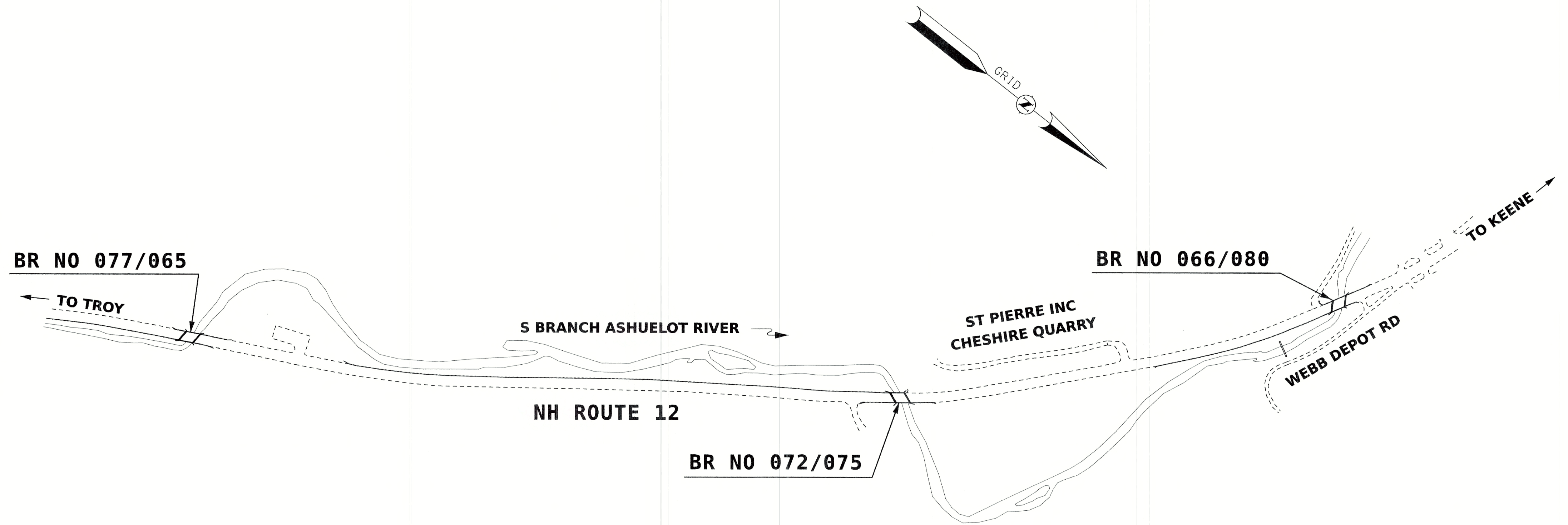
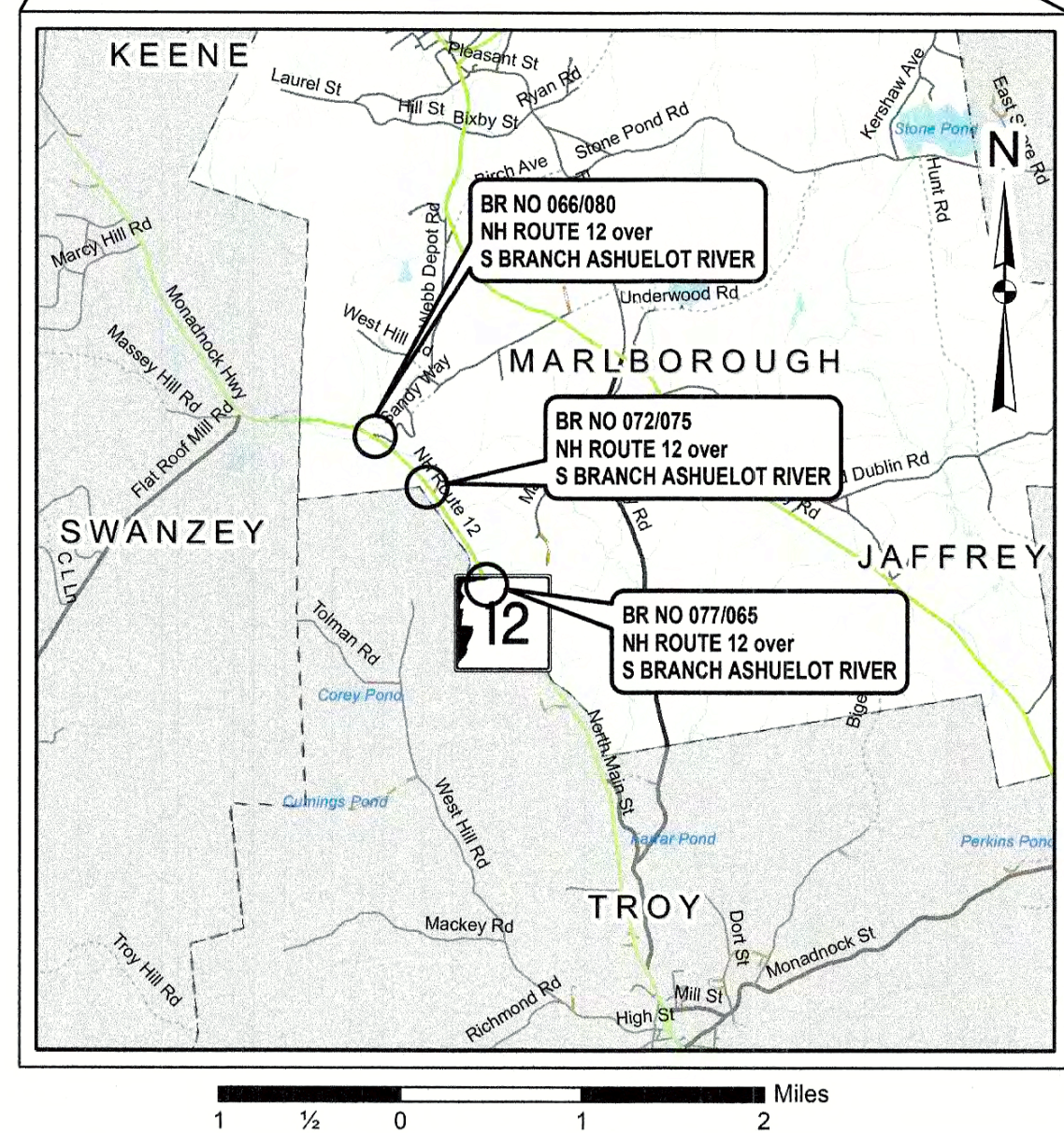


STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION CONSTRUCTION PLANS FEDERAL AID PROJECT

**N.H. PROJECT NO. 44054
NH ROUTE 12**

DESIGN DATA		
AVERAGE DAILY TRAFFIC 20	2020	7,931
AVERAGE DAILY TRAFFIC 20	2042	11,737
PERCENT OF TRUCKS		7%
DESIGN SPEED		55 mph
LENGTH OF PROJECT		100'/BRIDGE



**TOWN OF MARLBOROUGH
COUNTY OF CHESHIRE**
SCALE: 1" = 300'

+

NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

	RECOMMENDED FOR APPROVAL: <small>DIRECTOR OF PROJECT DEVELOPMENT</small>	 <small>DATE</small> 8/7/23
	APPROVED: <small>ASSISTANT COMMISSIONER AND CHIEF ENGINEER</small>	 <small>DATE</small> 8/8/23
<small>DRAWING NAME</small> 44054fsc	<small>FEDERAL PROJECT NO.</small> 44054	<small>STATE PROJECT NO.</small> 44054
<small>SHEET NO.</small> 1	<small>TOTAL SHEETS</small> 18	

<small>DRAWN BY</small>	SMG	<small>DATE</small>	7/23
<small>CHECKED BY</small>	DLS	<small>DATE</small>	8/23

GENERAL NOTES

- ① FOR STANDARD PLANS, SEE DEPARTMENT OF TRANSPORTATION WEBSITE AT: WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/STANDARDPLANS/INDEX.HTM.
- ② HIGH TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED THROUGHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS AND RUNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN ON REGULAR POLES. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT, ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.
- ③ MODIFY SUPERELEVATION ON EXISTING CURVES BY THE USE OF A LEVELING COURSE TO THE RATES INDICATED ON THE PLANS OR AS ORDERED.
- ④ EXISTING DELINEATORS AND WITNESS MARKERS THAT ARE REMOVED AND DETERMINED BY THE ENGINEER TO BE IN ACCEPTABLE CONDITION SHALL BE RESET (SUBSIDIARY). ADDITIONAL DELINEATORS AND WITNESS MARKERS ORDERED WILL BE PAID UNDER THE APPROPRIATE ITEMS OF THE CONTRACT.
- ⑤ NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- ⑥ PERFORM ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER.
- ⑦ 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 ____.
- ⑨ 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.

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	INDEX OF SHEETS AND GENERAL NOTES
3,4	STANDARD SYMBOLS
BRIDGE PLANS	
5	NOTES AND QUANTITIES
6	MISCELLANEOUS BRIDGE DETAILS
7-8	BRIDGE NUMBER 077/065
9-10	BRIDGE NUMBER 072/065
11-12	BRIDGE NUMBER 066/080
TRAFFIC CONTROL PLANS	
13	TRAFFIC CONTROL BR NO 077/065
14	TRAFFIC CONTROL BR NO 072/065
15	TRAFFIC CONTROL BR NO 066/080
16	TEMPORARY SIGNAL TIMING
17	ALTERNATE ROUTE PLAN
18	CONSTRUCTION SIGN TEXT LAYOUT

THE FOLLOWING GENERAL NOTES WILL BE USED ON THIS PROJECT:											
①	○	○	○	○	⑤	⑥	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○

+ ... X

NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
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GENERAL

EDGE OF PAVEMENT		existing roadway	(pavement removed outside slope lines)
TRAVELED WAY			
DRIVEWAYS		(label surface type)	
BUILDINGS		(label house or type of building)	(building to be removed)
FOUNDATION		(label type)	
LEACH FIELD		leach field	
BRIDGE CROSSINGS		STREAM	
STEPS AND WALK		(label type)	
INTERMITTENT WATER COURSE			
SHORE LINE		river/stream	
POTENTIAL WET AREA SYMBOL			(label name of water body)
BRUSH OR WOODS LINE			
TREES (PLANS)	(deciduous)	(coniferous)	(stump)
TREE OR STUMP (CROSS-SECTIONS)	(show station, circumference in feet & type)		
HEDGE		(label type)	
MONITORING WELL	mon		
WELL			
FLAG POLE		fp	

ORIGINAL GROUND (TYPICALS)	
ROCK OUTCROP	
ROCK LINE (TYPICALS & SECTIONS ONLY)	existing PROPOSED
GUARDRAIL (label type)	bgr cgr
JERSEY BARRIER	
CURB (LABEL TYPE)	
STONE WALL	
RETAINING WALL (LABEL TYPE)	(points toward retained ground)
FENCE (LABEL TYPE)	
SIGNS	(single post) (double post)
GAS PUMP	gp
FUEL TANK (ABOVE GROUND)	ft (label size & type)
STORAGE TANK FILLER CAP	fc
SEPTIC TANK	s
GRAVE	gr
MAILBOX	mb
VENT PIPE	vp
SATELLITE DISH ANTENNA	da
PHONE	ph
GROUND LIGHT/LAMP POST	gl lp
BORING LOCATION	
TEST PIT	
INTERSTATE NUMBERED HIGHWAY	
UNITED STATES NUMBERED HIGHWAY	
STATE NUMBERED HIGHWAY	

SHORELAND - WETLAND

WETLAND DESIGNATION AND TYPE	
DELINEATED WETLAND	DW
ORDINARY HIGH WATER	OHW
TOP OF BANK	T O B
TOP OF BANK & ORDINARY HIGH WATER	T O B O H W
NORMAL HIGH WATER	N H W
WIDTH AT BANK FULL	W B F
PRIME WETLAND	P W E T
PRIME WETLAND 100' BUFFER	P W E T 100
NON-JURISDICTIONAL DRAINAGE AREA	N J D A
COWARDIN DISTINCTION LINE	C D L
TIDAL BUFFER ZONE	T B Z
DEVELOPED TIDAL BUFFER ZONE	D T B Z
HIGHEST OBSERVABLE TIDE LINE	H O T L
MEAN HIGH WATER	M H W
MEAN LOW WATER	M L W
VERNAL POOL	V P
SPECIAL AQUATIC SITE	S A S
REFERENCE LINE	REF
WATER FRONT BUFFER	W B 50
NATURAL WOODLAND BUFFER	N W B 150
PROTECTED SHORELAND	P S 250
INVASIVE SPECIES LABEL	I.S. I I.S. II
INVASIVE SPECIES	INV

FLOODPLAIN / FLOODWAY

500 YEAR FLOODPLAIN BOUNDARY	F P 500
100 YEAR FLOODPLAIN BOUNDARY	F P 100
FLOODWAY	F W

ENGINEERING

CONSTRUCTION BASELINE	
PC, PT, POT (ON CONST BASELINE)	
PI (IN CONSTRUCTION BASELINES)	
INTERSECTION OR EQUATION OF TWO LINES	
ORIGINAL GROUND LINE (PROFILES AND CROSS-SECTIONS)	
PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)	
CLEARING LINE	
SLOPE LINE	
SLOPE LINE (FILL)	
SLOPE LINE (CUT)	
PROFILES AND CROSS SECTIONS:	
ORIGINAL GROUND ELEVATION (LEFT)	72.5
FINISHED GRADE ELEVATION (RIGHT)	79.14

NHDOT Bridge Design
8/7/23

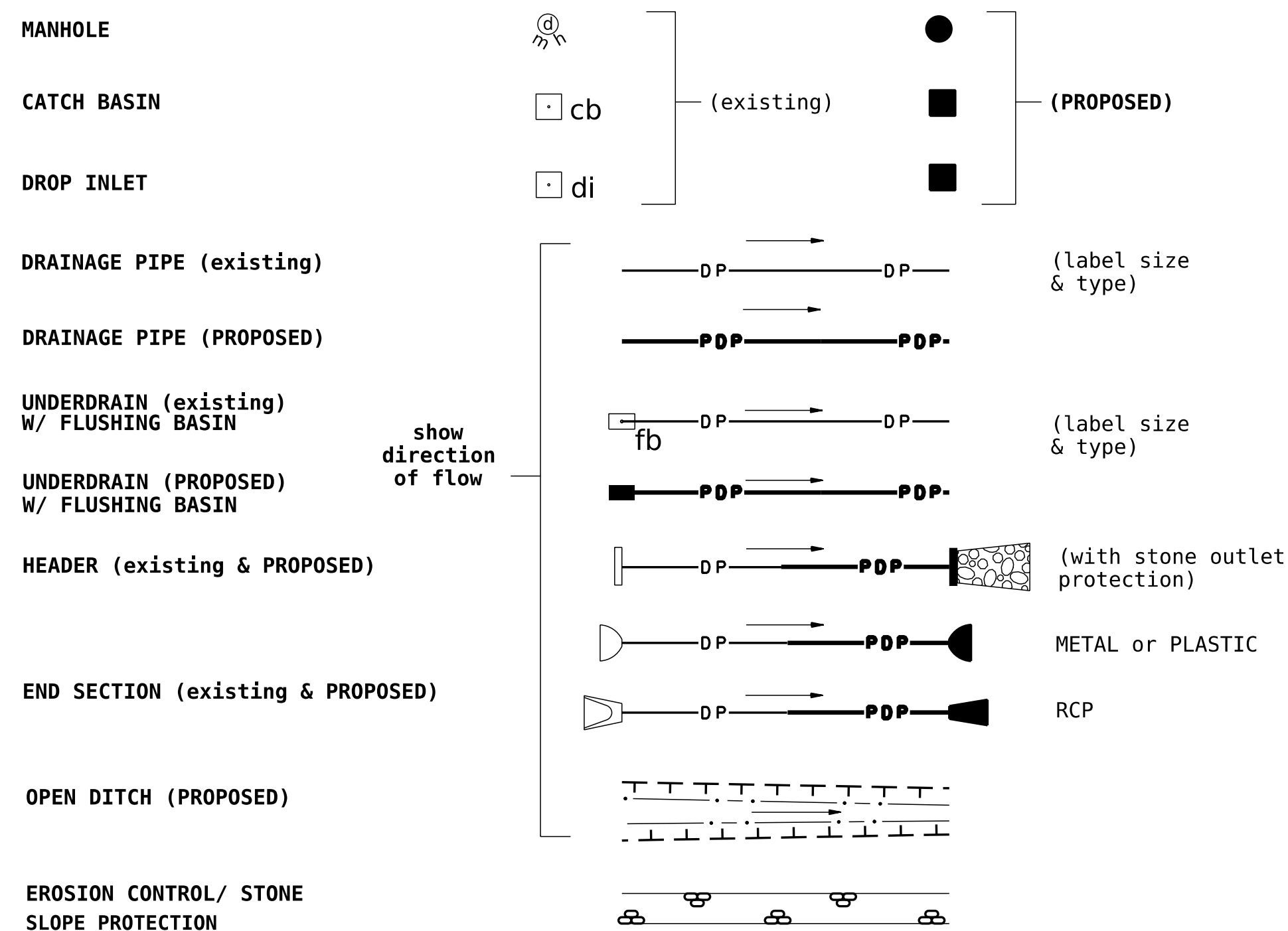
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

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

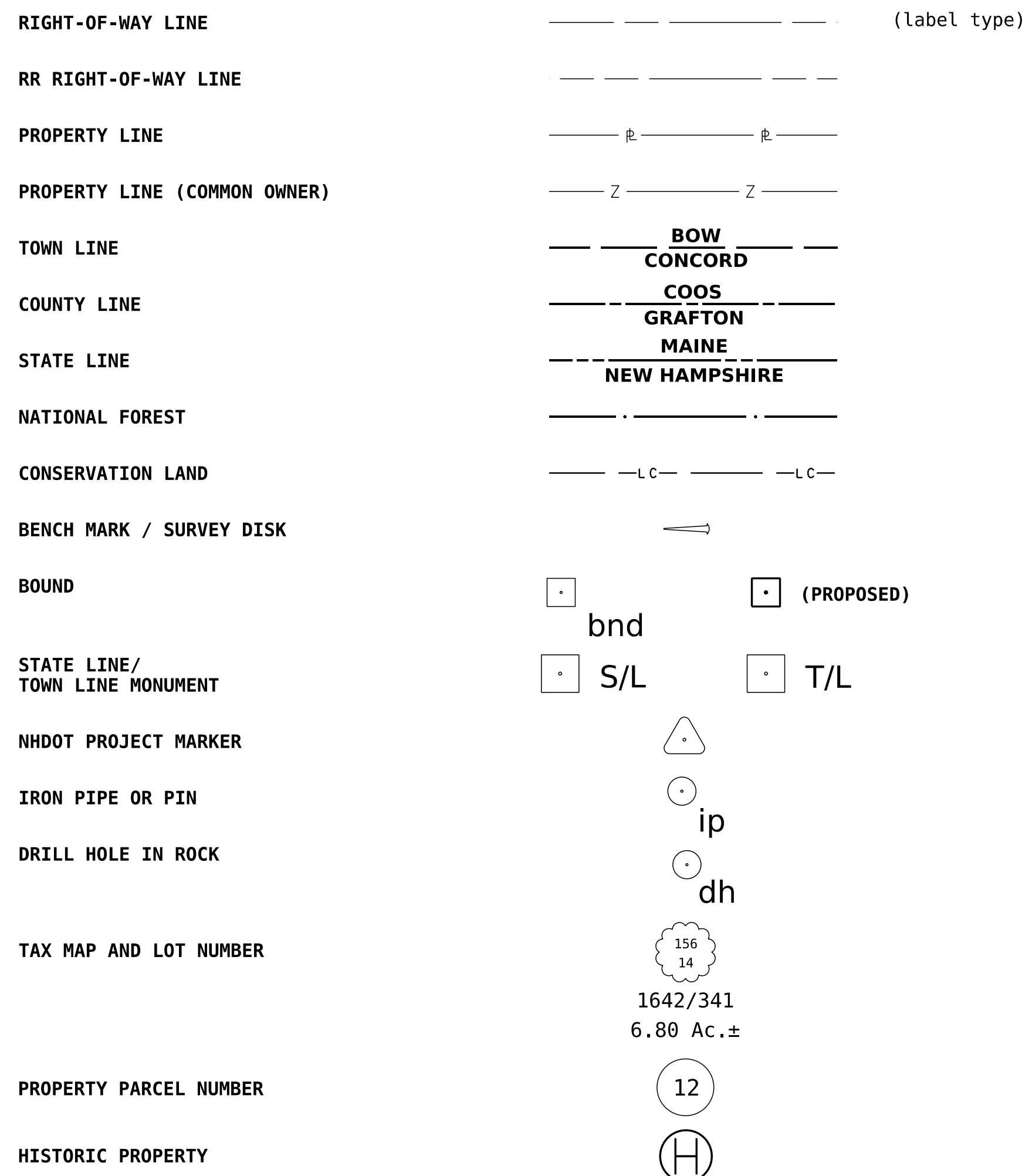
STANDARD SYMBOLS

REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
02-25-2022	stdsyml-2-ce	44054	3	18

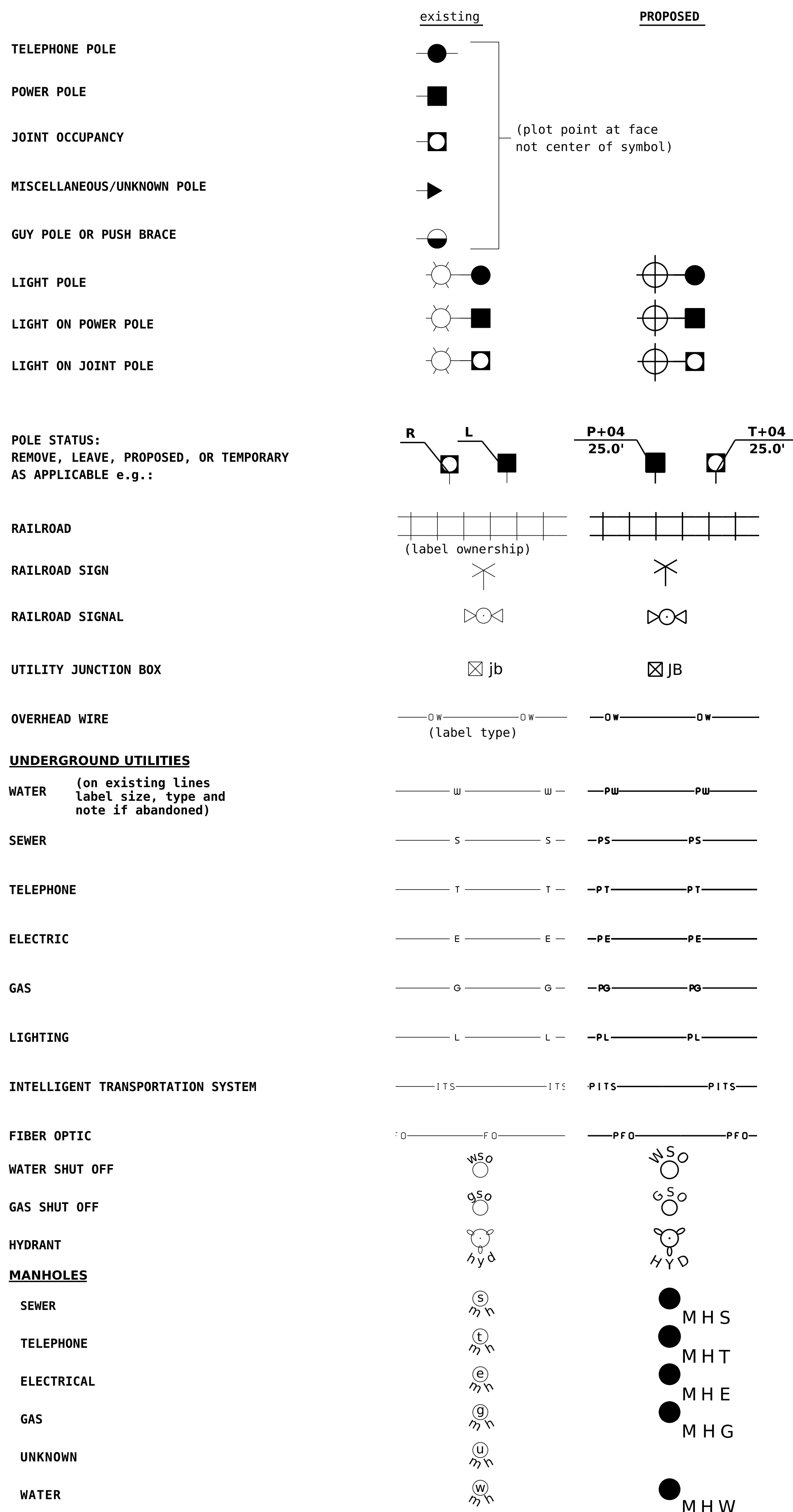
DRAINAGE



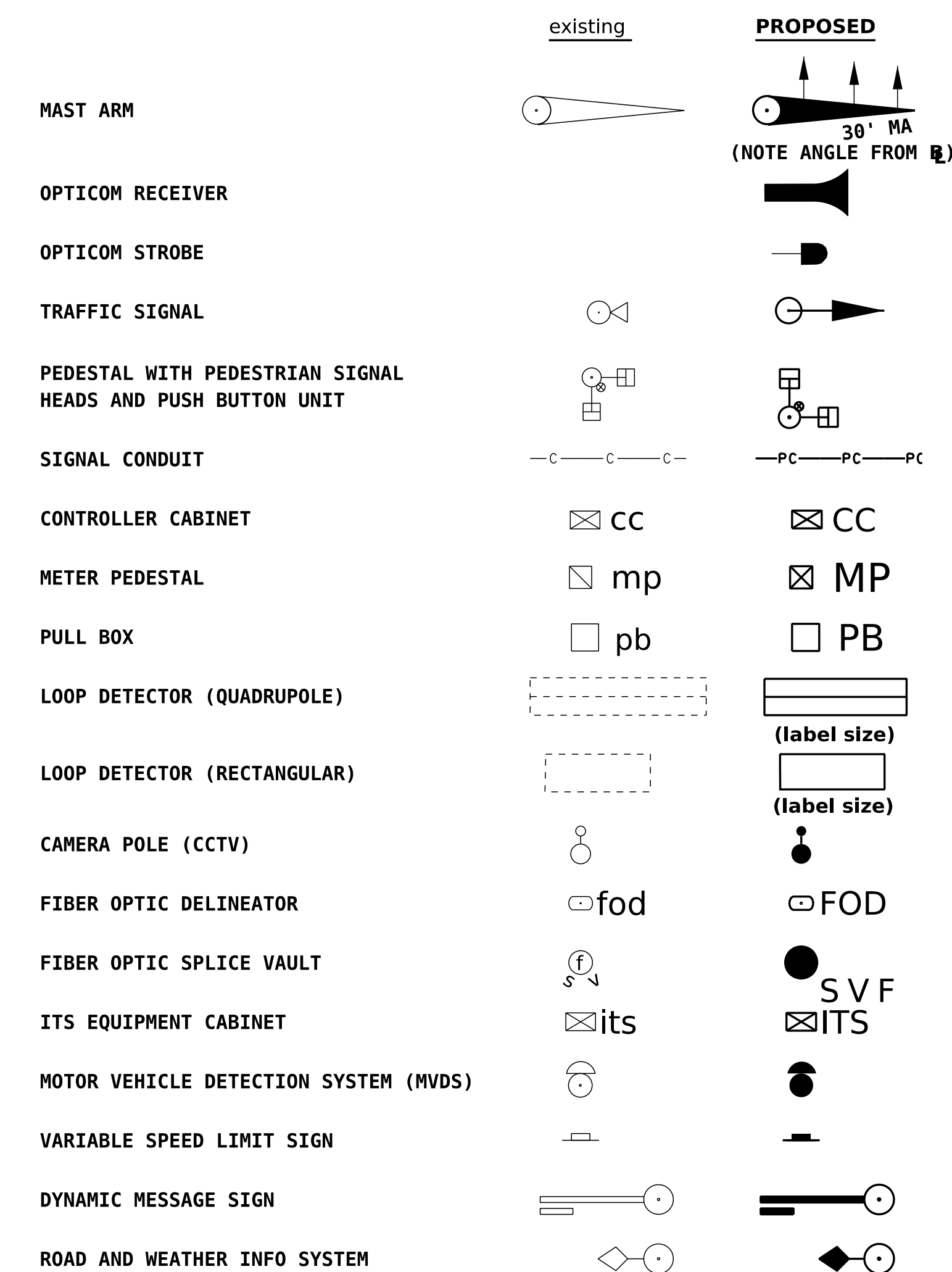
BOUNDARIES / RIGHT-OF-WAY



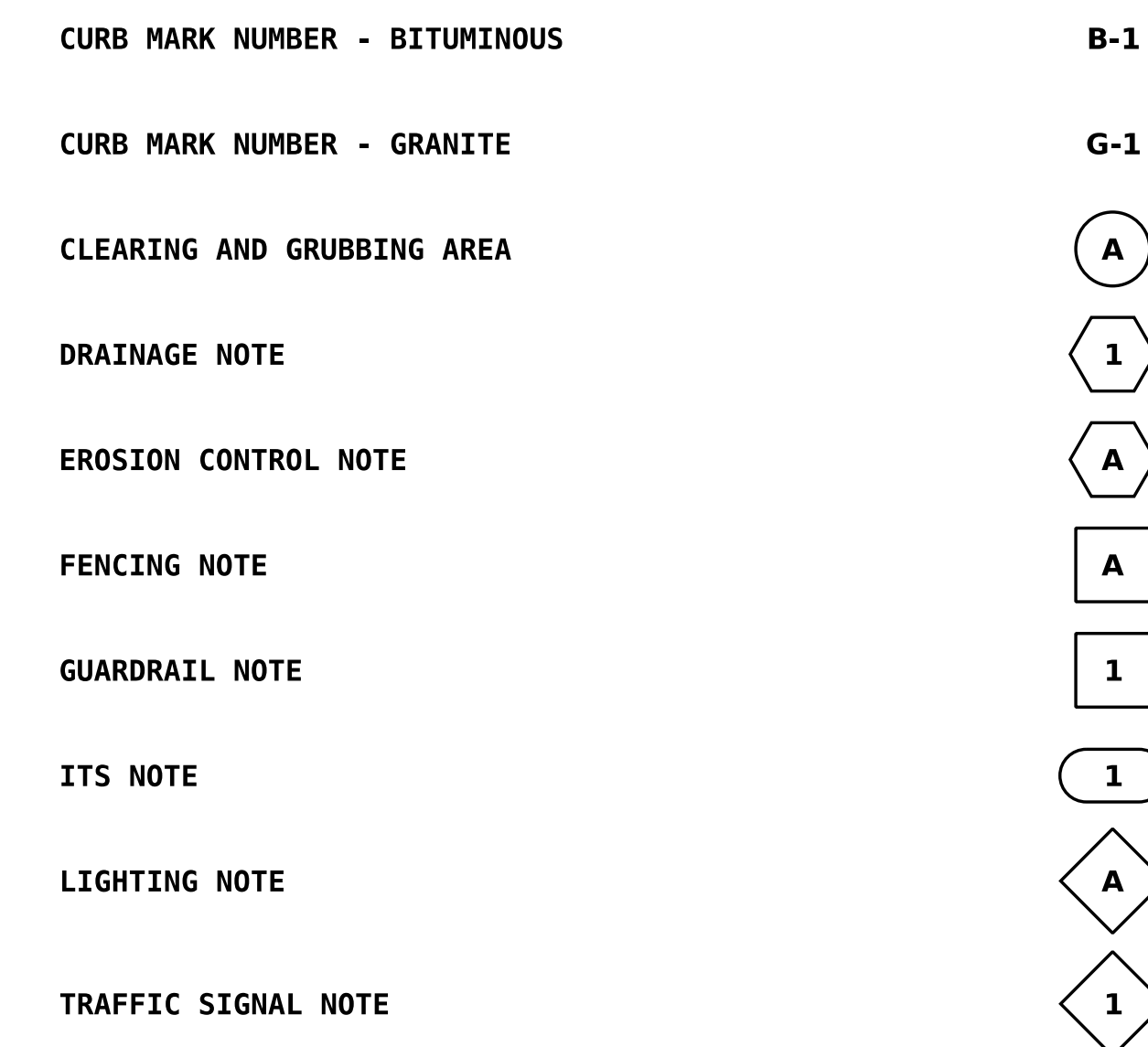
UTILITIES



TRAFFIC SIGNALS / ITS



CONSTRUCTION NOTES



NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

STATE OF NEW HAMPSHIRE MARLBOROUGH				
DEPARTMENT OF TRANSPORTATION		BUREAU OF HIGHWAY DESIGN		
STANDARD SYMBOLS				
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
02-25-2022	stdsyml-2-ce	44054	4	18

SCOPE OF WORK

- MARLBOROUGH BR NO 077/065**
NH ROUTE 12 over SOUTH BRANCH ASHUELOT RIVER
 - REMOVE AND REPLACE DECK PAVEMENT AND MEMBRANE
 - REPAIRS TO EAST FASCIA
 - FULL AND PARTIAL DEPTH DECK REPAIRS
 - INSTALL 6" CRACK SEAL AT NORTH END
 - INSTALL 20" PLUG JOINT AT SOUTH END

- MARLBOROUGH BR NO 072/075**
NH ROUTE 12 over SOUTH BRANCH ASHUELOT RIVER
 - REMOVE AND REPLACE DECK PAVEMENT AND MEMBRANE
 - FULL AND PARTIAL DEPTH DECK REPAIRS
 - REPLACE EAST GRANITE CURB WITH CONCRETE CURB
 - CONCRETE ABUTMENT AND WING REPAIRS
 - INSTALL 6" CRACK SEAL AT NORTH END
 - INSTALL 20" PLUG JOINT AT SOUTH END

- MARLBOROUGH BR NO 066/080**
NH ROUTE 12 over SOUTH BRANCH ASHUELOT RIVER
 - REMOVE AND REPLACE DECK PAVEMENT AND MEMBRANE
 - REPAIRS TO EAST FASCIA
 - FULL AND PARTIAL DEPTH DECK REPAIRS
 - CONCRETE ABUTMENT AND WING REPAIRS
 - INSTALL 6" CRACK SEAL AT NORTH END
 - INSTALL 20" PLUG JOINT AT SOUTH END
 - REPLACE MISSING BOLTS

MATERIALS AND SPECIFICATIONS

- SPECIFICATIONS: AASHTO 2014, LRFD BRIDGE DESIGN SPECIFICATIONS WELDING PER AASHTO/AWS D1.5-02 & NHDOT 2016 STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, AS AMENDED
- CONCRETE: PARTIAL DEPTH DECK REPAIRS = 4000 psi
 ITEM 520.01, CONCRETE CLASS AA
 CLASS II ABUTMENT REPAIRS = 4000 psi
 ITEM 520.02012, CONCRETE CLASS AA, ABOVE FOOTINGS (ABUT/WALL/PIER REPAIR)
 FULL DEPTH DECK REPAIRS = 4000 psi
 ITEM 520.02013, CONCRETE CLASS AA, ABOVE FOOTINGS (FULL DECK REPAIR)
 DECK END AND TOP OF BACKWALL CONSTRUCTION = 4000psi
 ITEM 520.0201, CONCRETE CLASS AA, ABOVE FOOTINGS
- REINFORCING STEEL: AASHTO M31 (ASTM A615) GRADE 60 EPOXY COATED

REMOVAL NOTES

- 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 WORK.
- REMOVAL OF EXISTING BRIDGE STRUCTURE, ITEM 502, EXCEPT AS OTHERWISE SHOWN IN THE PLANS, SHALL INCLUDE:
 (A) REMOVAL OF EXISTING GRANITE CURB, CURB ANCHORS, AND GROUT BED ON EAST COPING BR NO 072/075
- EXISTING DECK PAVEMENT AND MEMBRANE SHALL BE REMOVED UNDER ITEM 511.000X, CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F).

TO THE CONTRACTOR

THE CONTRACTOR SHOULD BE AWARE THAT EXISTING STRUCTURE DIMENSIONS AND ELEVATIONS SHOWN ON THESE PLANS WERE TAKEN FROM ORIGINAL BRIDGE PLANS AND DO NOT NECESSARILY REPRESENT "AS BUILT" DIMENSIONS AND ELEVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURES AND BE PREPARED TO MAKE ANY ADJUSTMENTS REQUIRED TO PROPERLY REHABILITATE THE BRIDGE. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER, OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ADVANCING THE WORK. THE EXISTING BRIDGE PLANS ARE AVAILABLE ONLINE IN THE BID PACKAGE ON THE INVITATION TO BID WEBSITE DURING THE BIDDING PERIOD. AFTER THE CONTRACT IS AWARDED, A COMPLETE SET OF THE EXISTING PLANS WILL BE FORWARDED TO THE CONTRACTOR UPON REQUEST. THE FILE NUMBERS FOR THESE BRIDGES ARE FOUND IN THE GENERAL CONSTRUCTION NOTES, NOTE 1 THIS SHEET.

GENERAL CONSTRUCTION NOTES

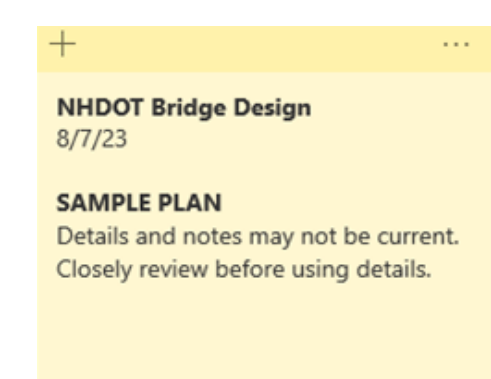
- EXISTING BRIDGE PLANS ARE AVAILABLE ONLINE IN THE BID PACKAGE ON THE INVITATION TO BID WEBSITE DURING THE BIDDING PERIOD. FILE NUMBERS FOR EACH BRIDGE ARE LISTED AS FOLLOWS:

 MARLBOROUGH BR NO 077/065 FILE NO 3-7-1-14 PROPOSAL 13593 (2002)
 MARLBOROUGH BR NO 072/075 FILE NO 3-7-1-15 PROPOSAL 13593 (2002)
 MARLBOROUGH BR NO 066/080 FILE NO 3-7-1-16 PROPOSAL 13593 (2002)
- PORTABLE CONCRETE BARRIER AND CHANNELIZING DEVICES SHALL BE IN PLACE BEFORE REMOVAL OPERATIONS BEGIN FOR EACH CONSTRUCTION PHASE. SEE TRAFFIC CONTROL PLANS FOR BARRIER LAYOUT OF PROPOSED PHASED CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE THAT DEBRIS DOES NOT FALL INTO THE WATERWAYS BELOW EXISTING STRUCTURES. ALL COST TO BE SUBSIDIARY UNDER ITEM 502.10X AND SHALL INCLUDE THE ERECTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURES OR OTHER SUCH METHODS AS APPROVED.
- NO SCAFFOLDS SHALL BE ERECTED OR OPERATIONS CONDUCTED IN THE ROADWAY RIGHT OF WAY, UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR.
- DURING ALL REMOVAL AND REPAIR OPERATIONS EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING DECK REINFORCEMENT TO REMAIN. ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.
- AFTER REMOVAL OF EXISTING PAVEMENT AND MEMBRANE, AS REQUIRED IN THE SCOPE OF WORK, THE EXISTING CONCRETE BRIDGE DECKS 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.
- 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 520.02013).
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
- ITEM 538.5, BARRIER MEMBRANE, HEAT WELDED (F) SHALL BE OVERLAPPED PER MANUFACTURER'S REQUIREMENTS. AT DECK ENDS, WHERE THE MEMBRANE WILL NOT OVERLAP NEW OR EXISTING MEMBRANE, A SEALANT/REPAIR MASTIC COMPATIBLE WITH ITEM 538.5 SHALL BRIDGE ANY GAP BETWEEN THE EXISTING MEMBRANE AND NEW MEMBRANE OR BETWEEN THE NEW MEMBRANE AND THE END DECK WHEN THERE IS NO EXISTING MEMBRANE. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 538.5.
- PROFILE ADJUSTMENTS IN THE VICINITY OF THE REHABILITATED BRIDGES SHALL BE MADE AS REQUIRED OR AS DIRECTED TO ACCOUNT FOR VARIATIONS IN THE BRIDGE DECK CROSS SLOPES. ALL COSTS SHALL BE SUBSIDIARY TO THE APPROPRIATE ITEMS.
- EXISTING BRIDGE DECK COPINGS, WINGS, AND ABUTMENT FACES 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.
- PROVIDE ITEMS 403.16 AND 403.26, AS REQUIRED, ALONG LONGITUDINAL JOINTS BETWEEN PAVEMENT PASSES FOR EACH PAVEMENT COURSE, ALONG BRIDGE CURBS, ALONG ROADWAY CURBS, AND TRANSVERSELY ALONG EXPANSION JOINT ARMORING AND PAVEMENT MATCHES.
- APPLY ITEM 410.22, ASPHALT EMULSION FOR TACK COAT, TO BOTH EXISTING AND PROPOSED BRIDGE AND ROADWAY PAVEMENT COURSES PRIOR TO PLACING THE NEXT COURSE.
- EXISTING REINFORCING STEEL THAT IS TO REMAIN IN PLACE WITHIN THE RECONSTRUCTED AREAS SHALL BE CUT AS REQUIRED TO PROVIDE 2½" MINIMUM CLEAR COVER FROM THE PROPOSED CONCRETE SURFACES, EXCEPT AS OTHERWISE NOTED. ALL COSTS INCLUDED IN ITEMS 502.101. ALL NEW REINFORCING BARS SHALL HAVE A MINIMUM CLEAR COVER OF 2½" FROM PROPOSED CONCRETE SURFACES UNLESS OTHERWISE NOTED.
- DISCRETE ANODES SHALL BE PLACED IN LOCATIONS AS SHOWN ON THE PLANS. THE ANODES SHALL BE ONLY TIED TO THE EXISTING BLACK REINFORCING, AS NOTED IN THE SPECIAL PROVISION. FOR FULL-DEPTH DECK REPAIRS, THE ANODES ARE TIED TO BOTH TOP AND BOTTOM REINFORCING MATS. ALL COSTS SHALL BE INCLUDED IN ITEM 540.512.
- 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.

SUMMARY OF BRIDGE QUANTITIES

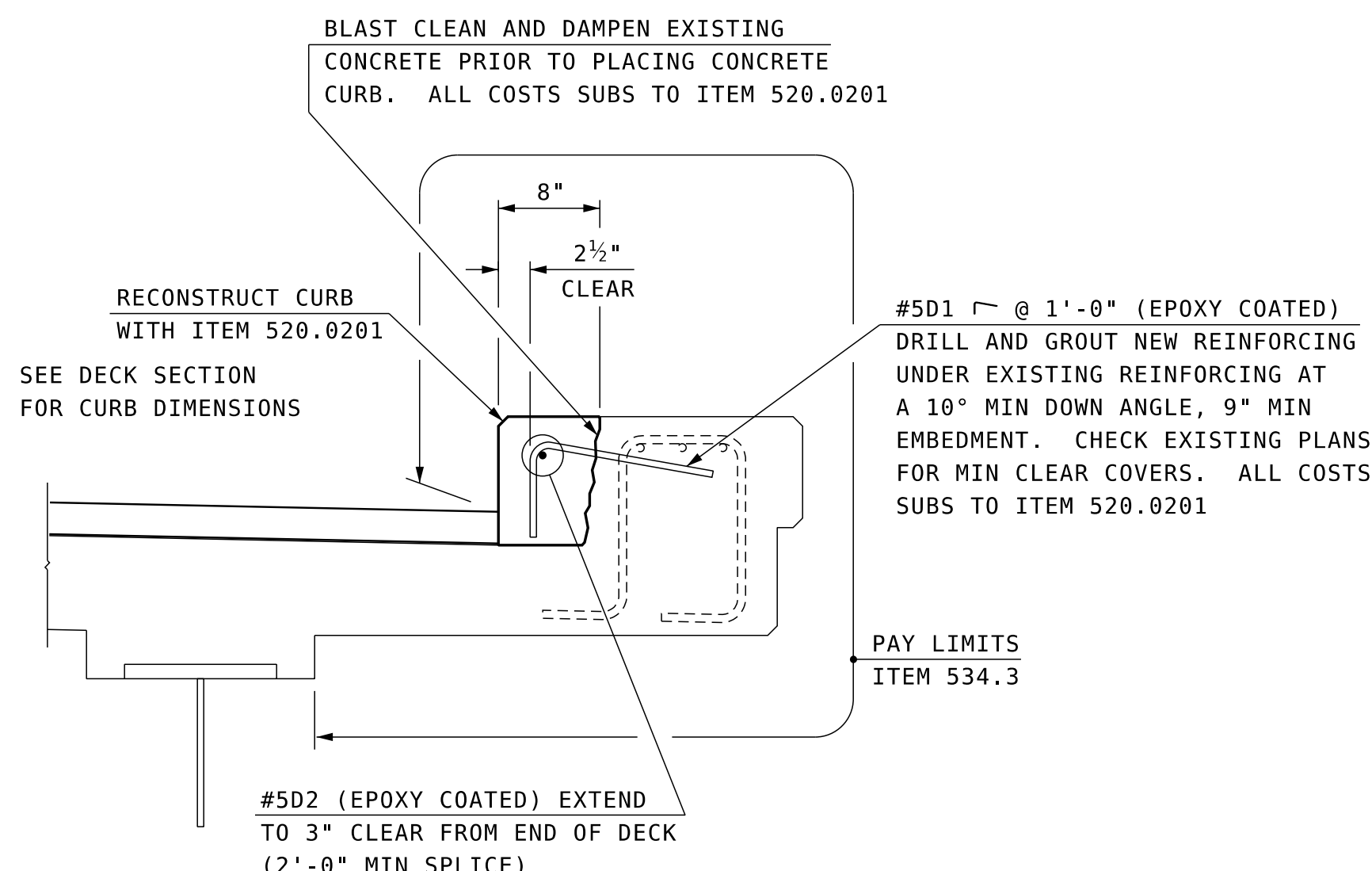
ITEM NO.	ITEM DESCRIPTION	BR NO 077/065 NH ROUTE 12 over S BRANCH ASHUELOT RIVER				BR NO 072/075 NH ROUTE 12 over S BRANCH ASHUELOT RIVER				QUANTITY	UNIT
		BR NO 077/065 NH ROUTE 12 over S BRANCH ASHUELOT RIVER	BR NO 072/075 NH ROUTE 12 over S BRANCH ASHUELOT RIVER	BR NO 066/080 NH ROUTE 12 over S BRANCH ASHUELOT RIVER	BR NO 077/065 NH ROUTE 12 over S BRANCH ASHUELOT RIVER	BR NO 072/075 NH ROUTE 12 over S BRANCH ASHUELOT RIVER	BR NO 066/080 NH ROUTE 12 over S BRANCH ASHUELOT RIVER				
403.11043	HBP - 1/2" SURFACE MIX, MACHINE METHOD	77	49	77	203	TON					
403.16	PAVEMENT JOINT ADHESIVE	689	689	689	2067	LF					
403.21053	HBP - 3/8" MIX, MACHINE METHOD (BRIDGE BASE)	28	43	28	99	TON					
403.26	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	877	877	877	2631	LF					
410.22	ASPHALT EMULSION FOR TACK COAT	46	46	46	138	GAL					
417.	COLD PLANING BITUMINOUS SURFACES	574	574	574	1722	SY					
502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	-	1	-	1	U					
511.0001	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	329	-	-	329	SY					
511.0002	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	-	329	-	329	SY					
511.0003	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	-	-	329	329	SY					
511.02	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	33	33	33	99	SY					
511.021	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS (OVERHEAD)	2	-	3	5	SY					
511.03	PREPARATION FOR FULL DEPTH CONCRETE BRIDGE DECK REPAIRS	4	2	4	10	SY					
512.02	PREPARATION FOR CONCRETE REPAIRS, CLASS II	-	4	8	12	SY					
520.01	CONCRETE CLASS AA	5	5	5	15	CY					
520.0201	CONCRETE CLASS AA, ABOVE FOOTINGS	0.5	2	0.5	3	CY					
520.02012	CONCRETE CLASS AA, ABOVE FOOTINGS (ABUT/WALL/PIER REPAIR)	-	1	2	3	CY					
520.02013	CONCRETE CLASS AA, ABOVE FOOTINGS (FULL DECK REPAIR)	1	1	1	3	CY					
520.421	CONCRETE CLASS F, FLOWABLE FILL, EXCAVATABLE	1	1	1	3	CY					
521.22	FAST-SET CONCRETE PATCHING MORTAR (VERTICAL AND OVERHEAD)	1	-	1	2	CY					
534.3	WATER REPELLENT (SILANE-SILOXANE)	33	42	35	110	GAL					
538.5	BARRIER MEMBRANE, HEAT WELDED (F) (42 GAL TACK COAT SUBSIDIARY)	329	329	329	987	SY					
540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	234	234	288	756	EA					
559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	51	51	51	153	LF					
559.412	REPAIR ASPHALTIC PLUG EXPANSION JOINT (F)	51	51	51	153	LF					
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	460	390	610	1460	LF					
606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	180	180	180	540	LF					
606.9523	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE), TEST LEVEL 3	2	2	2	6	U					
616.171	PORTABLE TRAFFIC SIGNALS (PTS) SYSTEM	0.29	0.29	0.42	1	U					
618.61	UNIFORMED OFFICERS WITH VEHICLE	*	*	*	*	\$					
618.7	FLAGGERS	330	340	330	1000	HR					
619.1	MAINTENANCE OF TRAFFIC	0.33	0.33	0.34	1	U					
619.25	PORTABLE CHANGEABLE MESSAGE SIGNS	1	1	1	3	U					
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	2	1	1	4	U					
619.52	PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)	11	11	11	33	MON					
628.2	SAWED BITUMINOUS PAVEMENT	102	102	102	306	LF					
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	960	960	960	2880	LF					
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE 1 (REMOVABLE) 4" LINE	2770	2455	2610	7835	LF					
632.1118	PREFORMED RETROREFLECTIVE TAPE, TYPE 1 (REMOVABLE) 18" LINE	22	42	47	111	LF					
632.1306	BLACKOUT PAVEMENT MARKING TAPE, TYPE 1 (REMOVABLE) 6" LINE	3090	2435	2795	8320	LF					
670.104	TEMPORARY PORTABLE LIGHTING	2	2	2	6	U					
692.	MOBILIZATION	0.33	0.33	0.34	1	U					
698.12	FIELD OFFICE TYPE B	4	4	4	12	MON					
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	*	*	*	*	\$					
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	*	*	*	*	\$					
1010.15	FUEL ADJUSTMENT	*	*	*	*	\$					

* NOT A BID ITEM



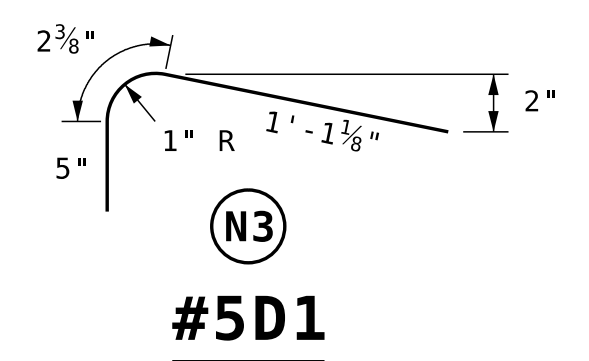
STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	MARLBOROUGH	BRIDGE NO.	VARIOUS	STATE PROJECT	44054
LOCATION	NH ROUTE 12 over S BRANCH ASHUELOT RIVER				
BRIDGE NOTES AND QUANTITIES					BRIDGE SHEET
REVISIONS AFTER PROPOSAL	BY	DATE	BY	DATE	1 OF 8
	DESIGNED	SMG 9/22	CHECKED	DLS 8/23	FILE NUMBER
	DRAWN	SMG 9/22	CHECKED	DLS 8/23	
	QUANTITIES	SMG 7/23	CHECKED	GMC 7/23	
ISSUE DATE	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS	
REV. DATE			5	18	

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR\	44054 NOTES	AS NOTED



CURB RECONSTRUCTION

NTS

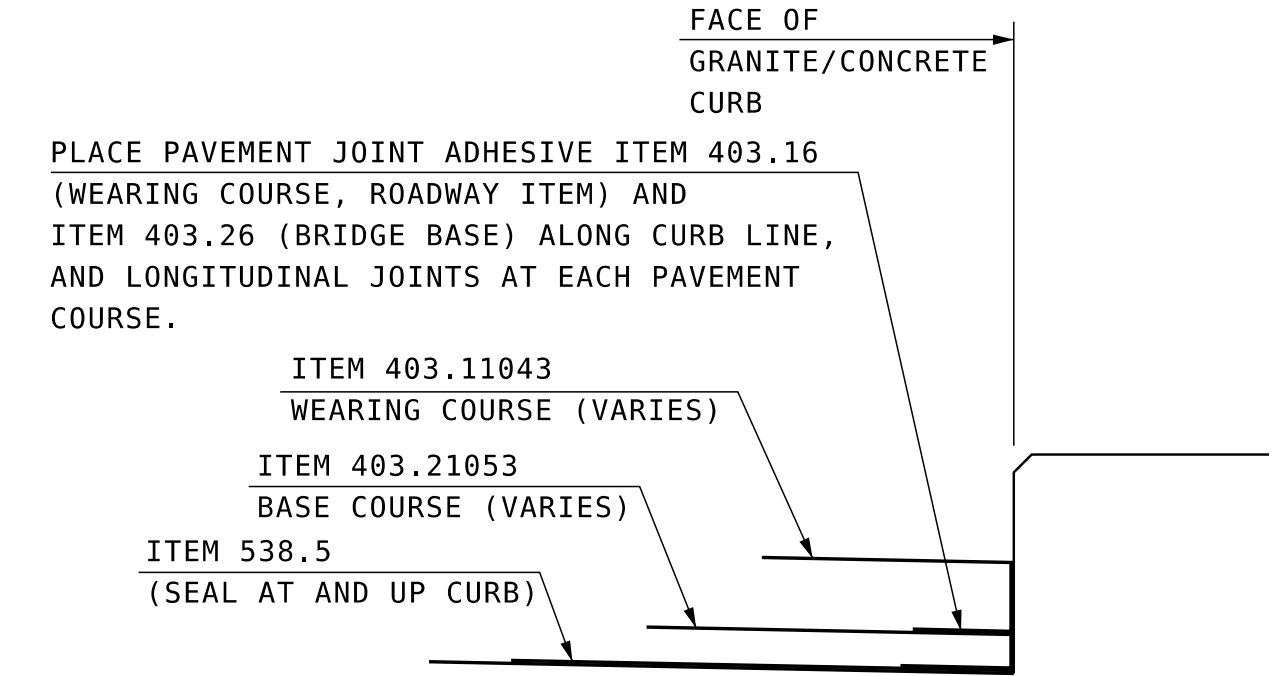


#5D1

BR NO 072/075					
MARK	SIZE	LENGTH	# PIECES	TYPE	LBS
D1	#5	1'-8 1/2"	67	N3	120
D2	#5	24'-6"	3		77
ITEM #	DESCRIPTION				TOTAL
544.2	EPOXY COATED				197

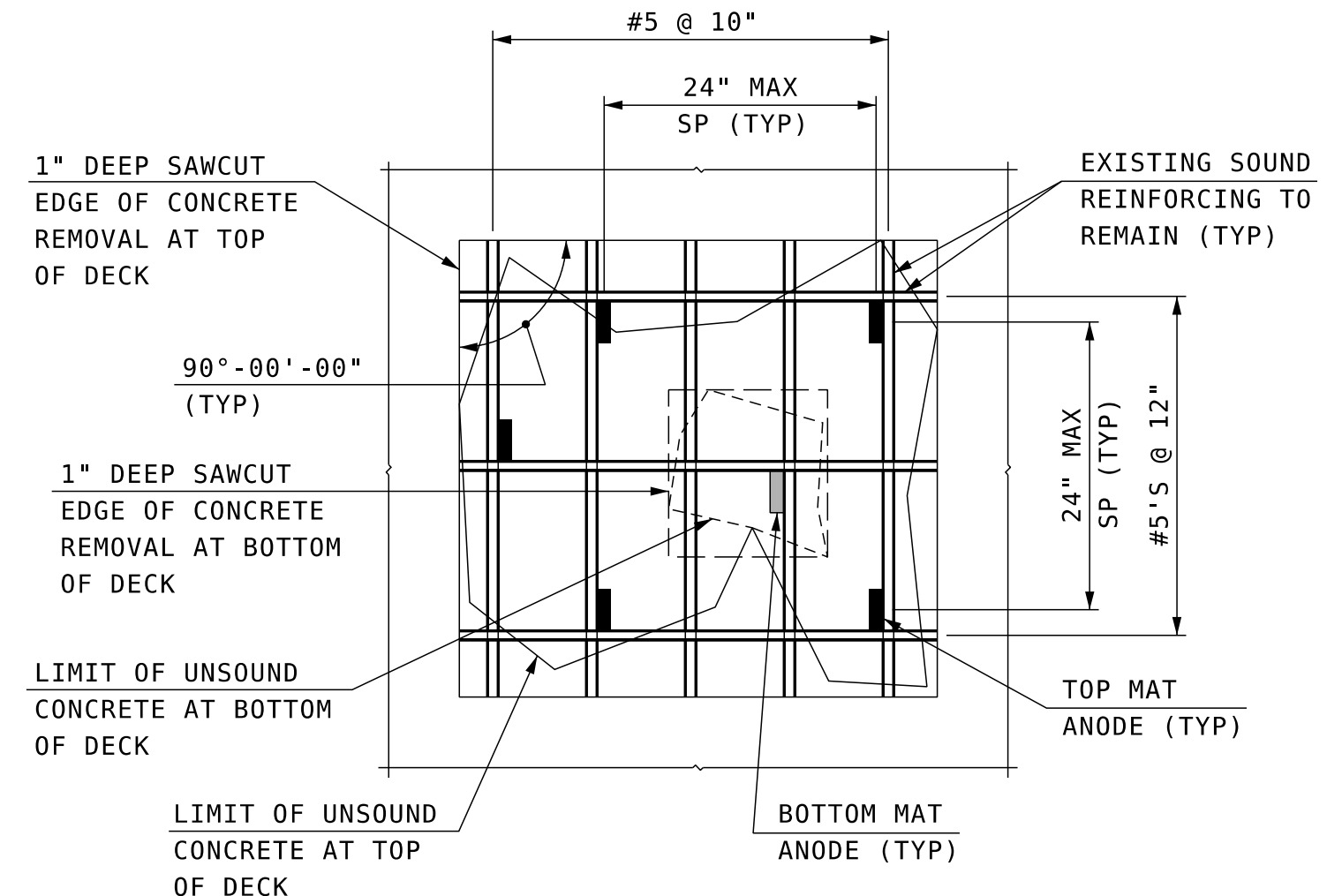
NOTES

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31-94 (ASTM A615).
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE, SEE CURRENT (1990) CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", P 6-4.
- REMOVAL OF EXISTING GRANITE CURB, CURB ANCHORS, AND GROUT BEDS SHALL BE PAID UNDER ITEM 502.10X.
- FOR BRIDGE GRANITE CURB AND DETERIORATED CONCRETE REMOVAL, SAWCUT EXISTING CONCRETE 1" DEEP ON ALL EXPOSED SURFACES TO PROVIDE CLEAN REMOVAL LINES. REMOVE EXISTING CONCRETE AS SHOWN IN THE PLANS. ALL COSTS TO BE INCLUDED IN ITEM 502.10X, REMOVAL OF EXISTING BRIDGE STRUCTURE.
- UNLESS OTHERWISE NOTED, HOLES DRILLED INTO EXISTING CONCRETE SHALL BE DRILLED 1/2" DIAMETER LARGER THAN THE BAR DIAMETER AND GROUTED WITH HIGH STRENGTH, NON-SHRINK CEMENTITIOUS GROUT (GROUT SHALL CONFORM TO SECTIONS 550 OR 609 OF THE QUALIFIED PRODUCTS LIST). ALL COSTS FOR DRILLING AND GROUTING SHALL BE SUBSIDIARY TO ITEM 520.0201.

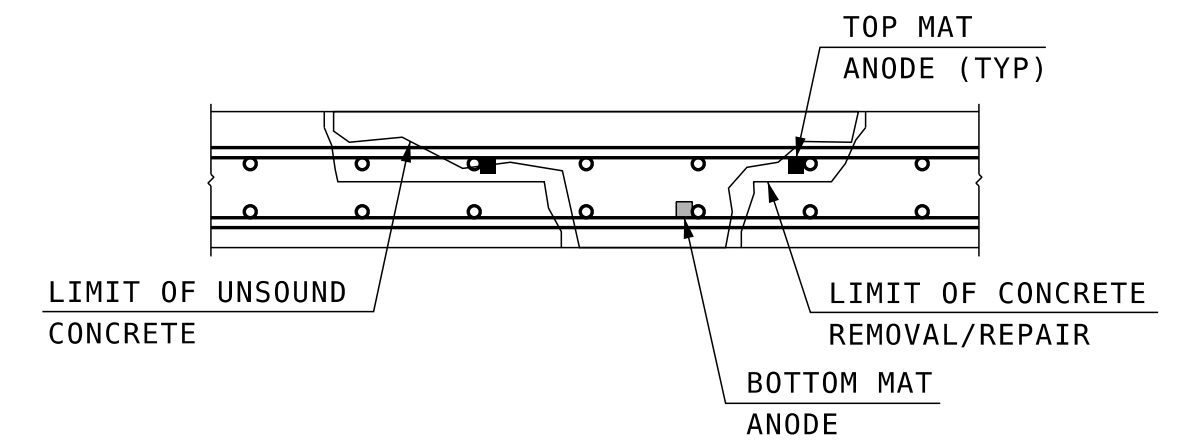


CURB DETAIL

SCALE 1 1/2" = 1'-0"



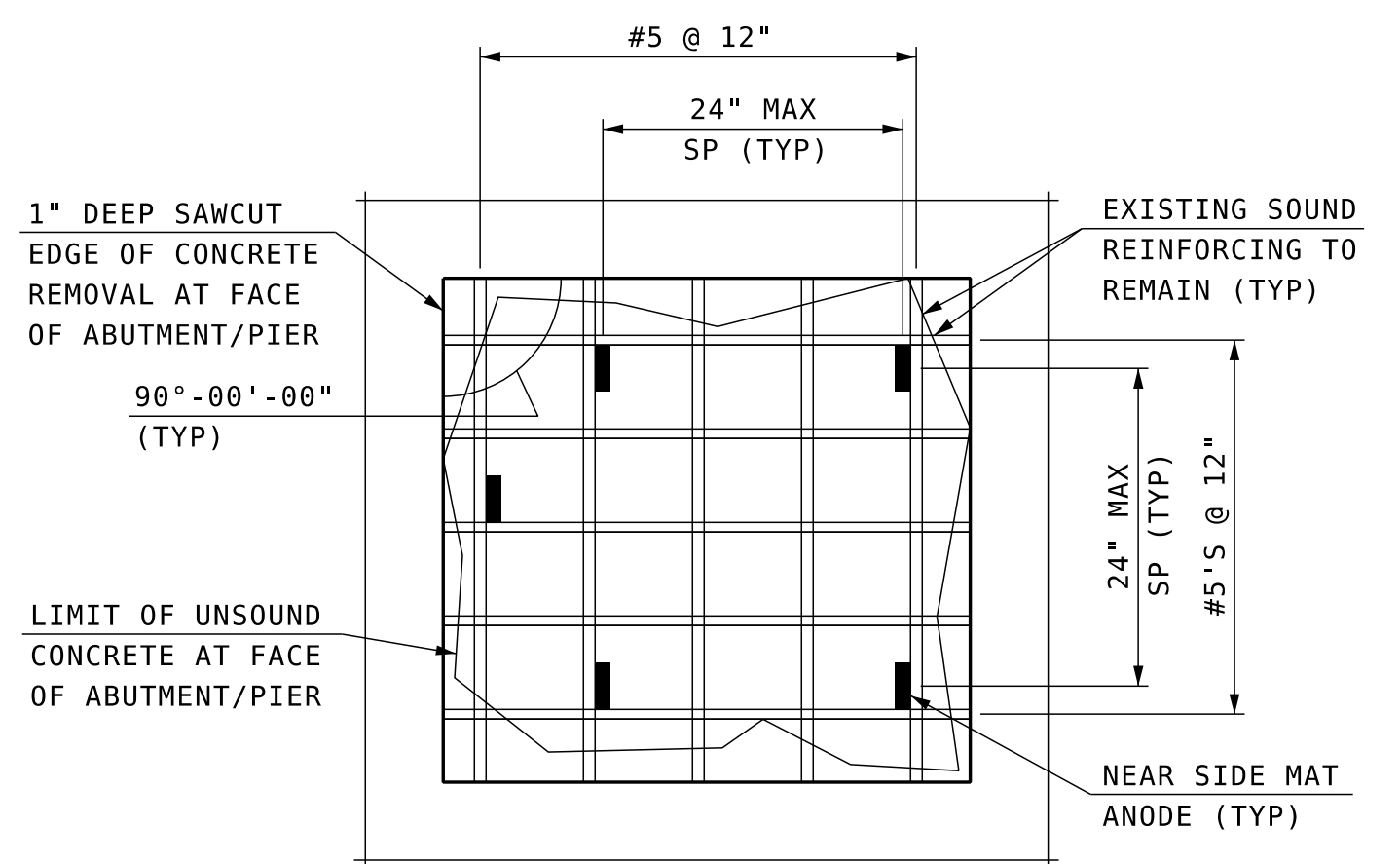
PLAN VIEW



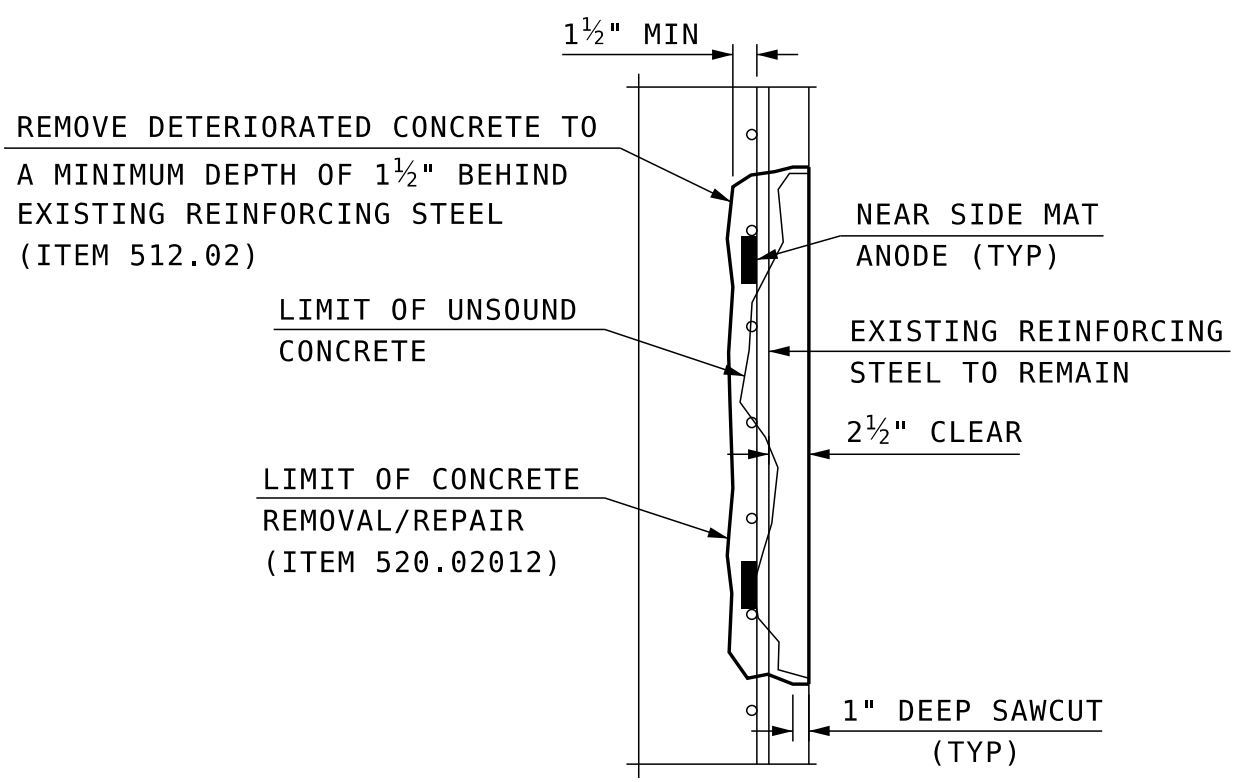
SECTION VIEW

TYPICAL DISCRETE ANODE PLACEMENT IN DECK

SCALE: 1" = 1'-0"



ELEVATION VIEW



SECTION VIEW

TYPICAL DISCRETE ANODE PLACEMENT IN ABUTMENT

SCALE: 1" = 1'-0"

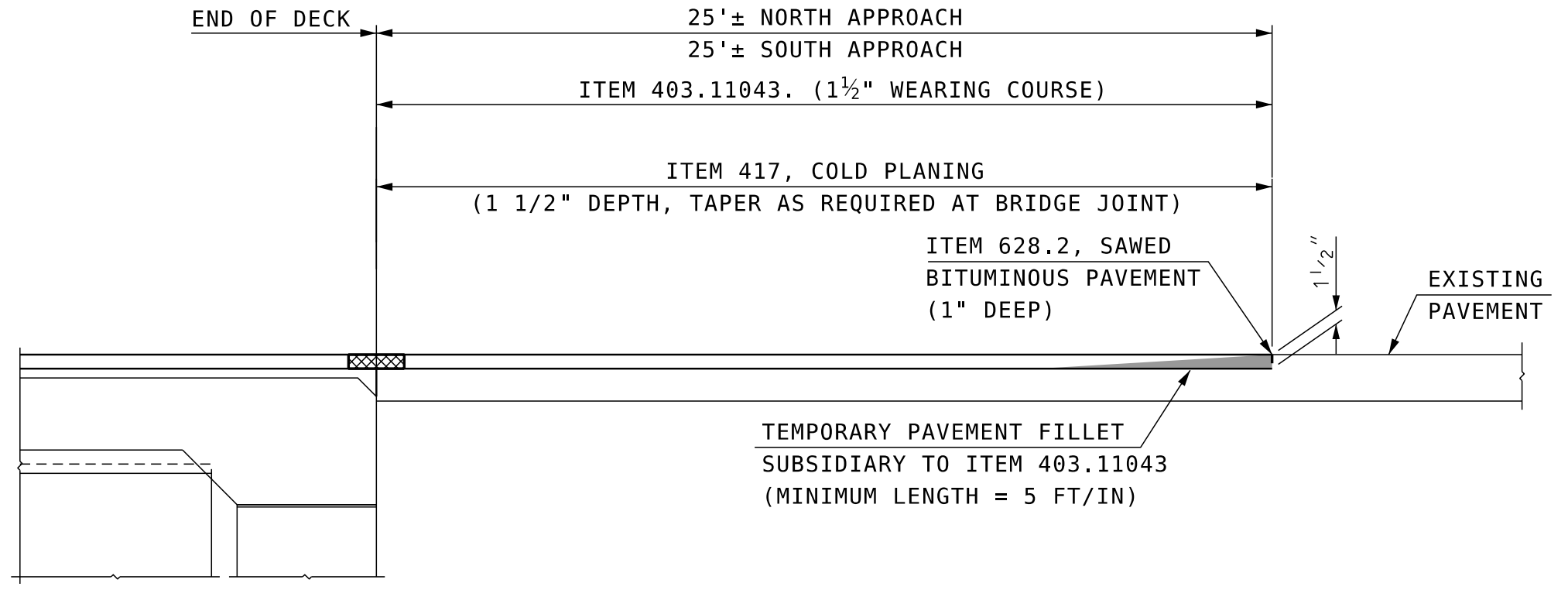
NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current. Closely review before using details.

DISCRETE ANODE NOTES

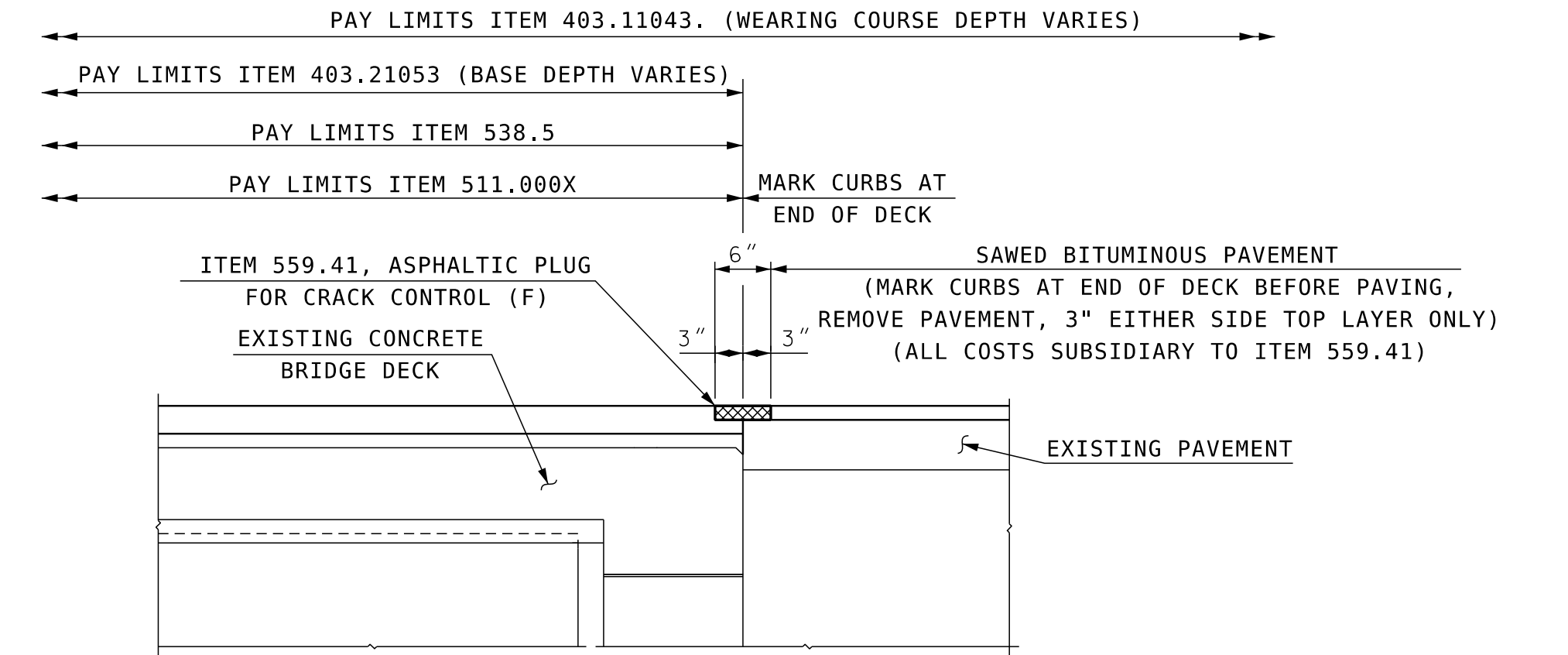
- LIMITS OF UNSOUND CONCRETE ARE TO BE DETERMINED BY THE ENGINEER.
- DISCRETE ANODES SHALL BE PLACED AS REQUIRED AS SHOWN IN THE DETAIL. THE ANODES SHALL BE TIED TO THE EXISTING STEEL MATS. ALL COSTS SHALL BE INCLUDED IN ITEM 540.512.
- SPACING OF DISCRETE ANODES AROUND THE PERIMETER OF THE CONCRETE DECK AND ABUTMENT REPAIR AREA SHALL BE 24" MAX.

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR\	44054 NOTES	AS NOTED



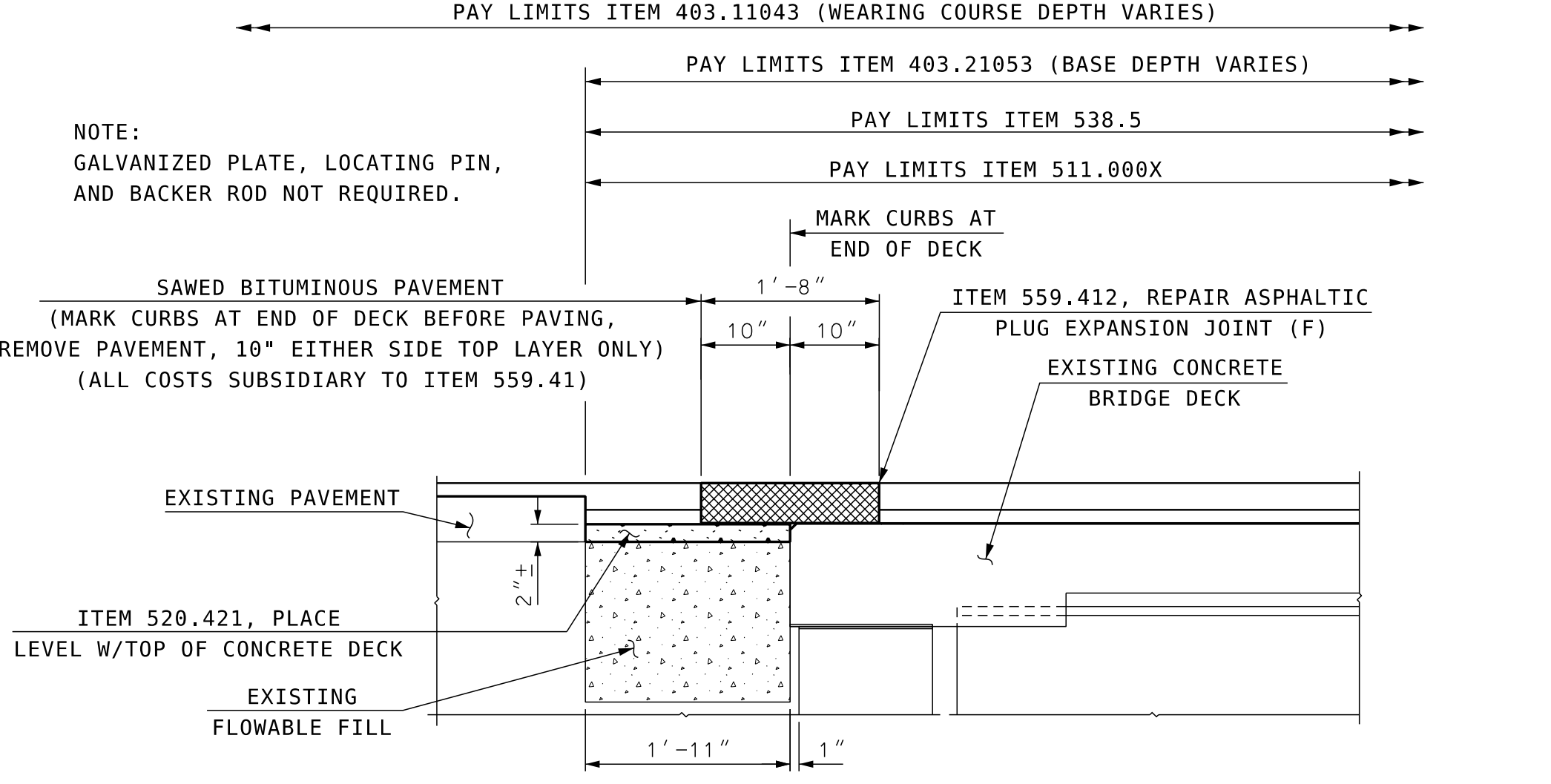
PAVEMENT MATCH DETAIL

BR NOS 113/078, 112/079, AND 133/115
NOT TO SCALE



ASPHALTIC PLUG CRACK CONTROL (FIXED END)

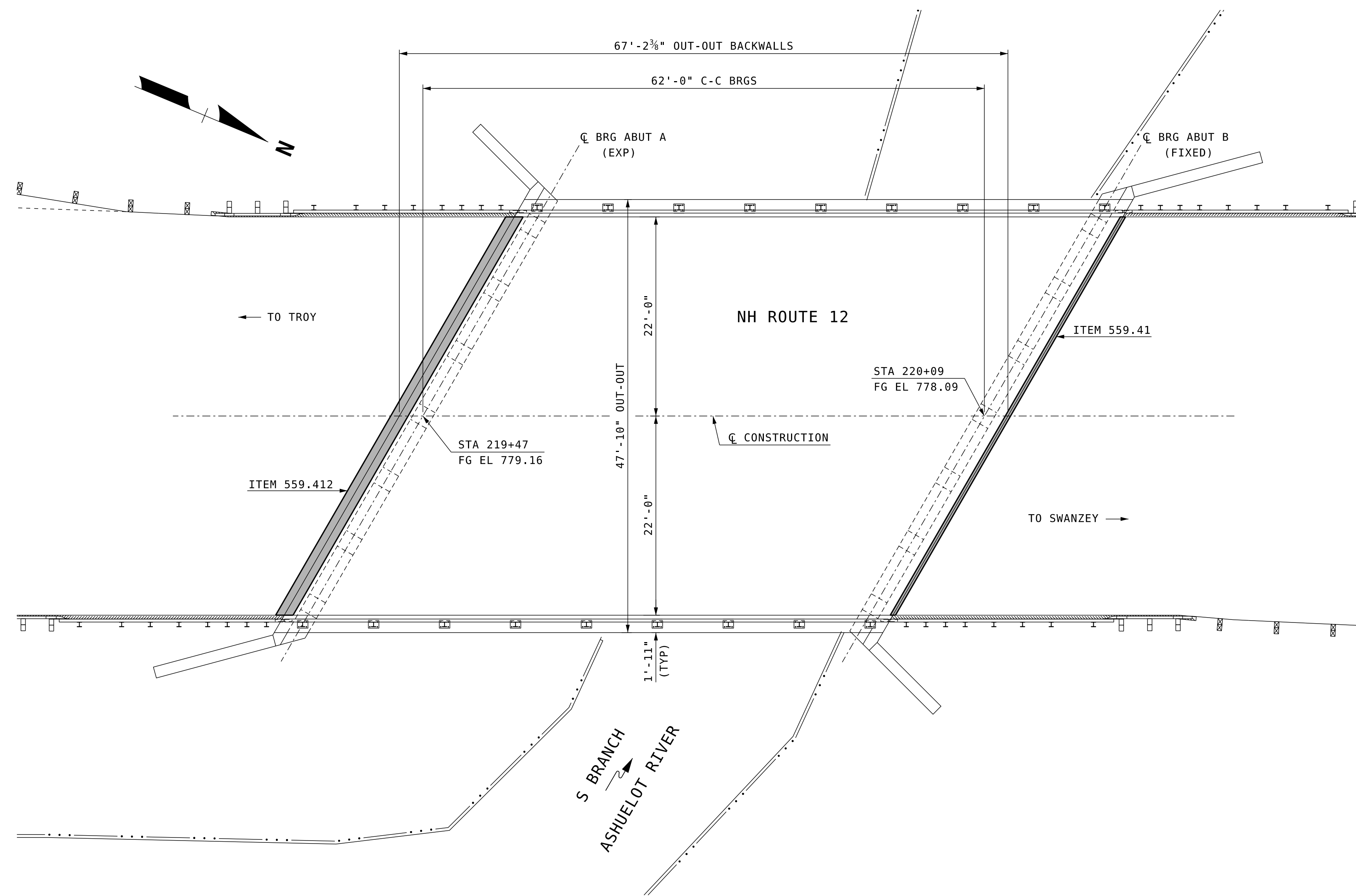
BR NOS 077/065, 072/075, AND 066/080
NOT TO SCALE



ASPHALTIC PLUG EXPANSION JOINT (EXPANSION END)

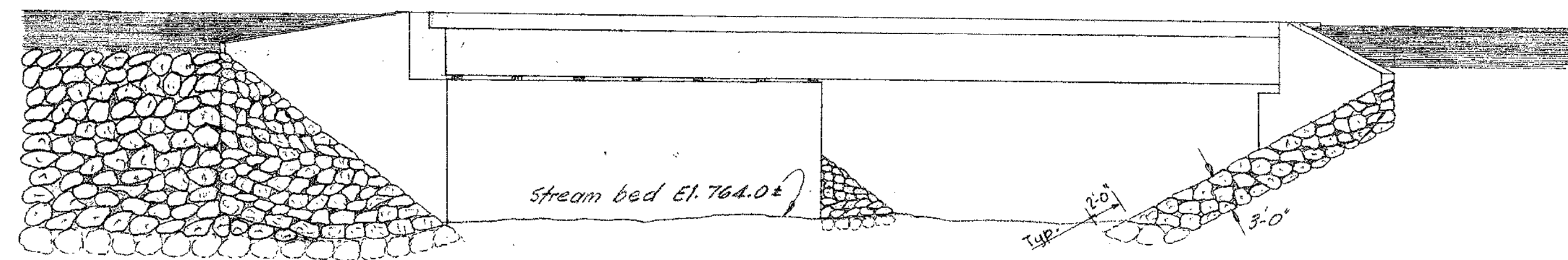
BR NOS 077/065, 072/075, AND 066/080
NOT TO SCALE

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	MARLBOROUGH	BRIDGE NO.	VARIOUS	STATE PROJECT	44054
LOCATION					NH ROUTE 12 over S BRANCH ASHUELOT RIVER
MISCELLANEOUS BRIDGE DETAILS					BRIDGE SHEET
					2 OF 8
REVISIONS AFTER PROPOSAL					FILE NUMBER
	BY	DATE	CHECKED	BY	DATE
	SMG	9/22	CHECKED	DLS	8/23
	SMG	9/22	CHECKED	DLS	8/23
	SMG	7/23	CHECKED	GMC	7/23
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE				6	18



GENERAL PLAN

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



ELEVATION

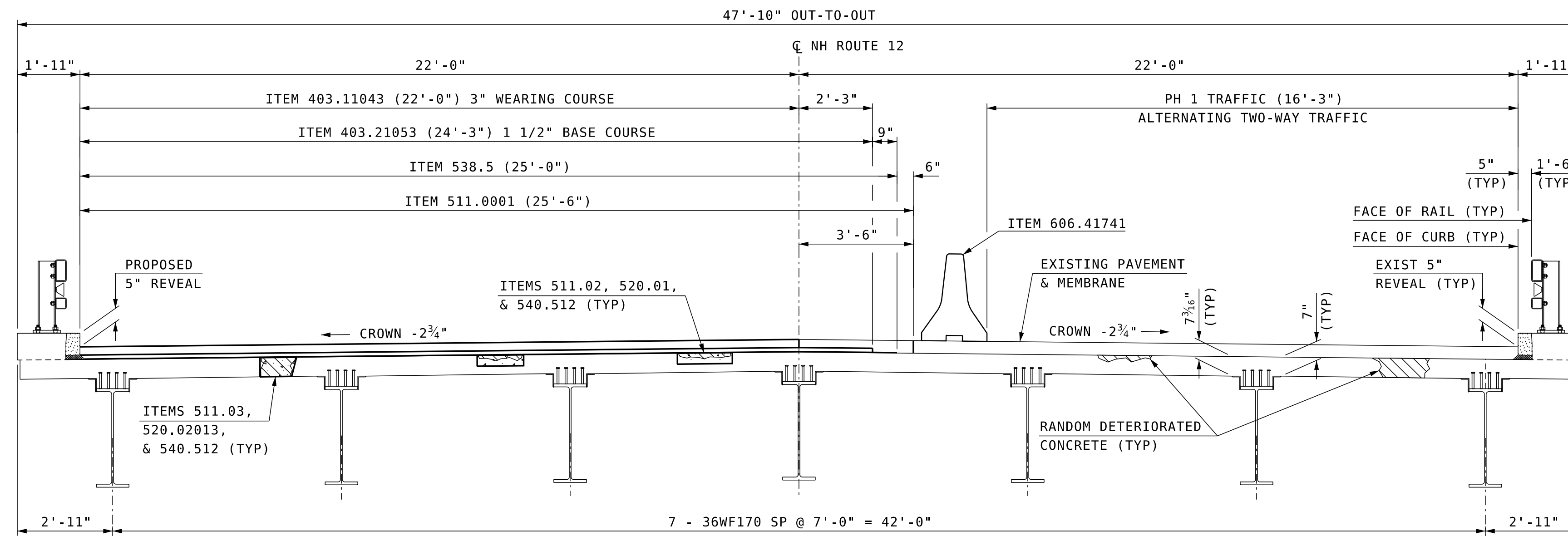
SCALE: 1/8" = 1'-0"

NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

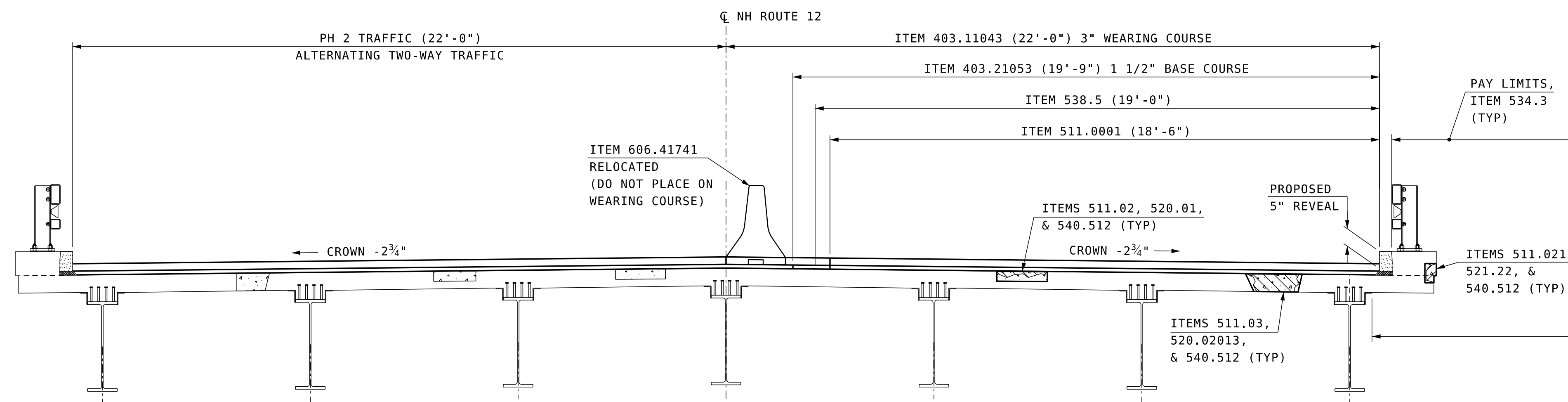
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR NO 077-065	077-065 Genplan	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN MARLBOROUGH		BRIDGE NO. 077/065		STATE PROJECT 44054					
LOCATION NH ROUTE 12 over S BRANCH ASHUELOT RIVER									
GENERAL PLAN & ELEV BR NO 077/065									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	BRIDGE SHEET		
		SMG	9/22	DLS	DLS	8/23	3 OF 8		
		SMG	9/22	DLS	DLS	8/23	FILE NUMBER		
		SMG	7/23	GMC	GMC	7/23			
ISSUE DATE	XX/XX	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS				
REV. DATE	XX/XX			7	18				



PHASE 1 CONSTRUCTION

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



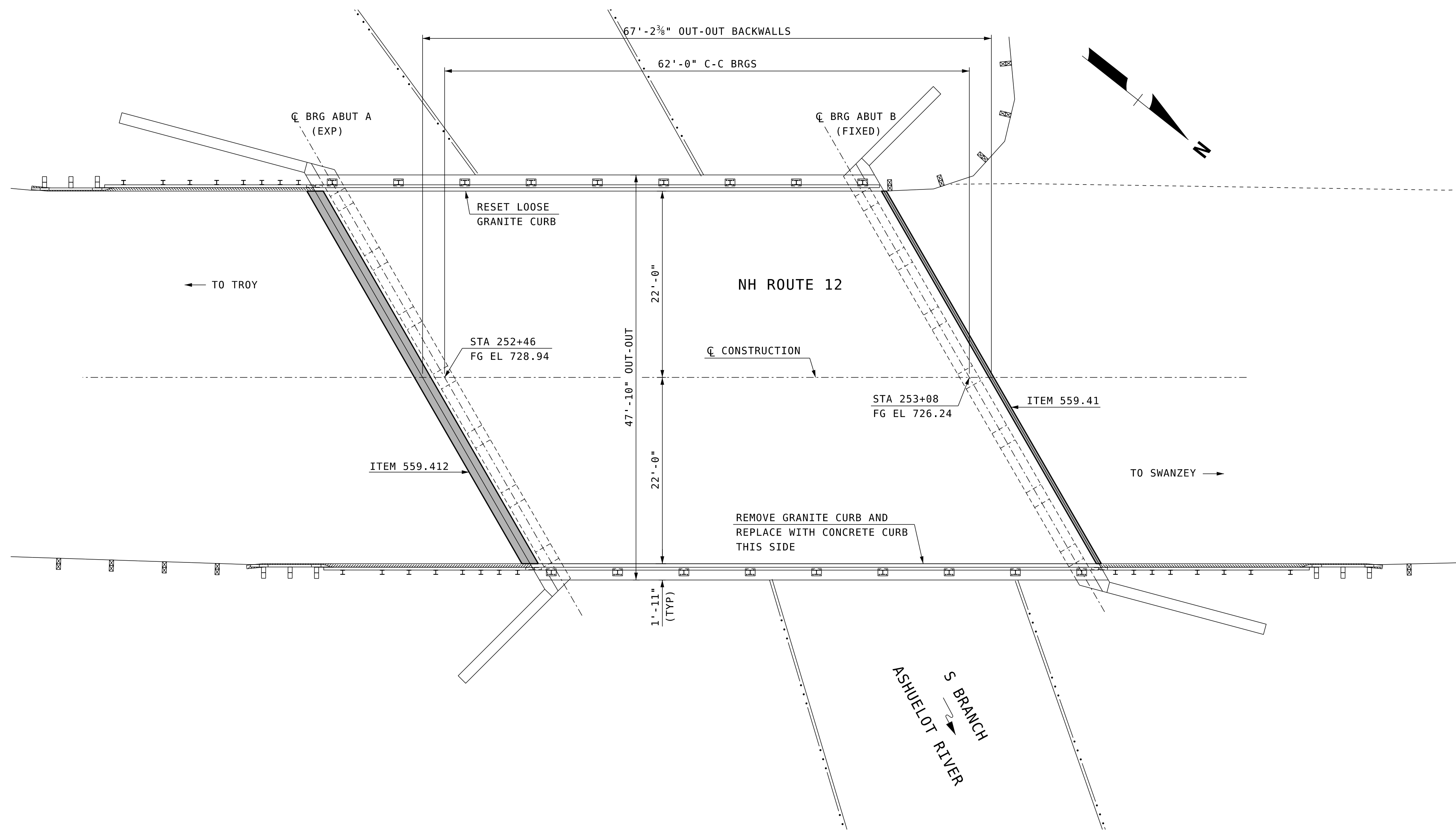
PHASE 2 CONSTRUCTION

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

NHDOT Bridge Design
8/7/23
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

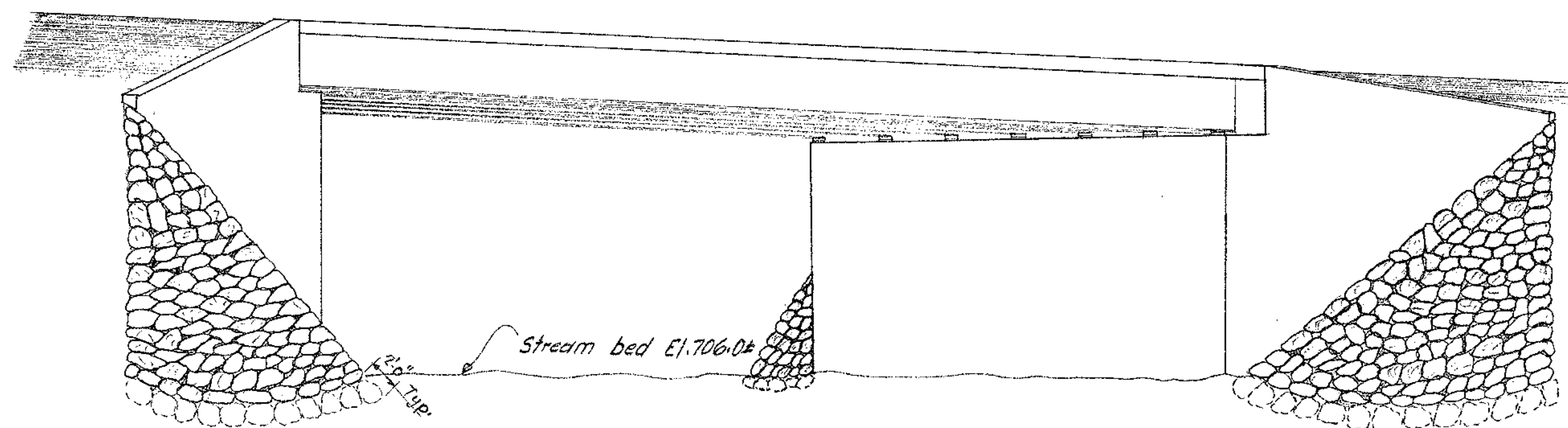
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	MARLBOROUGH	BRIDGE NO.	077/065	STATE PROJECT	44054	BRIDGE SHEET			
LOCATION	NH ROUTE 12 over S BRANCH ASHUELOT RIVER					4 OF 8			
DECK PHASING BR NO 077/065									
DESIGNED	SMG	9/22	CHECKED	DLS	8/23	FILE NUMBER	4 OF 8		
DRAWN	SMG	9/22	CHECKED	DLS	8/23	FILE NUMBER	4 OF 8		
QUANTITIES	SMG	7/23	CHECKED	GMC	7/23	FILE NUMBER	4 OF 8		
ISSUE DATE	XX/XX	FEDERAL PROJECT NO.	SHEET NO.		8	TOTAL SHEETS	18		
REV. DATE	XX/XX	SHEET NO.		8	TOTAL SHEETS	18			

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR NO 077-065	077-065 Decksect	AS NOTED



GENERAL PLAN

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



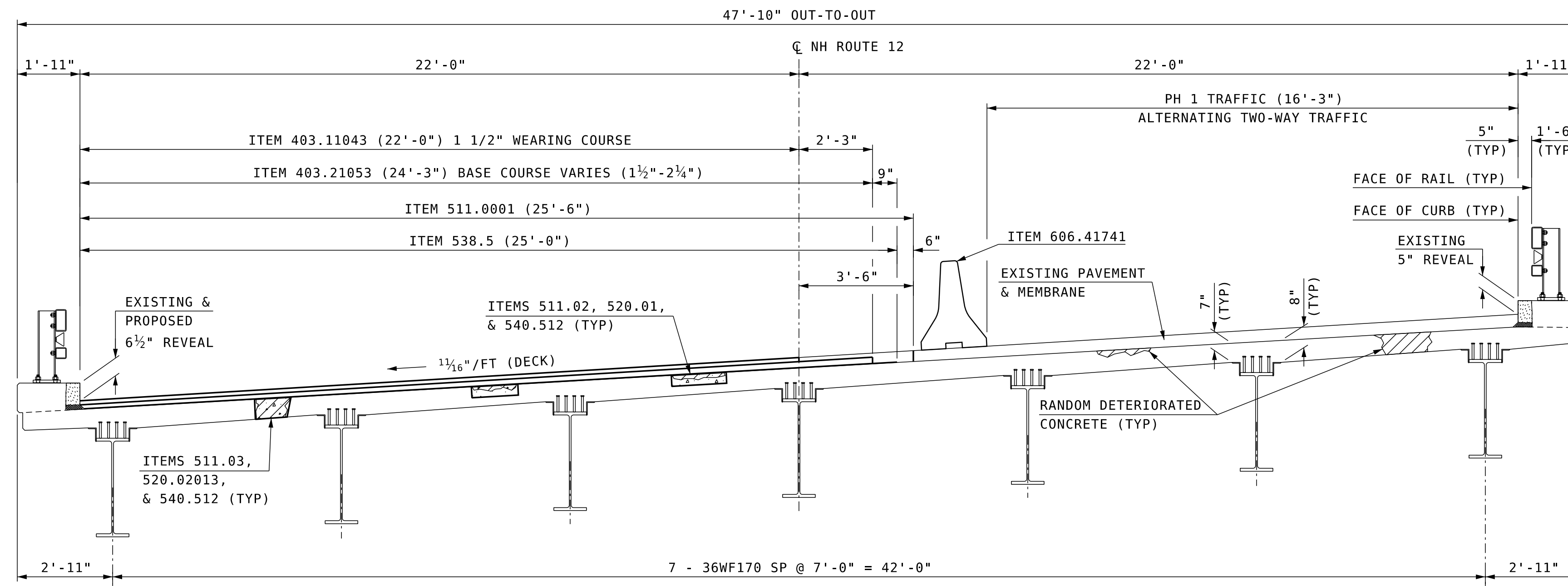
ELEVATION

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

NHDOT Bridge Design
8/7/23
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

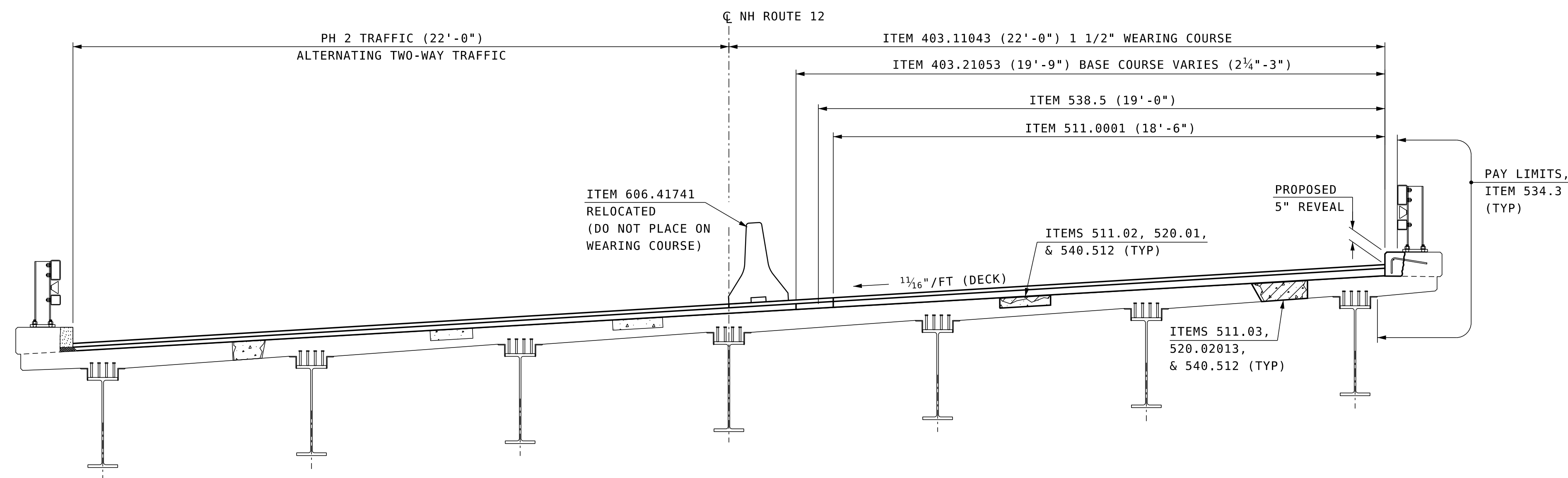
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR NO 072-075	072-075 Genplan	AS NOTED

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	MARLBOROUGH	BRIDGE NO.	072/075	STATE PROJECT	44054
LOCATION NH ROUTE 12 over S BRANCH ASHUELOT RIVER					
GENERAL PLAN & ELEV BR NO 072/075					BRIDGE SHEET
					5 OF 8
REVISIONS AFTER PROPOSAL	BY	DATE	CHECKED	BY	DATE
	DESIGNED	SMG 9/22	CHECKED	DLS 8/23	
	DRAWN	SMG 9/22	CHECKED	DLS 8/23	FILE NUMBER
	QUANTITIES	SMG 7/23	CHECKED	GMC 7/32	
ISSUE DATE	XX/XX	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS	
REV. DATE	XX/XX		9	18	



PHASE 1 CONSTRUCTION

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



PHASE 2 CONSTRUCTION

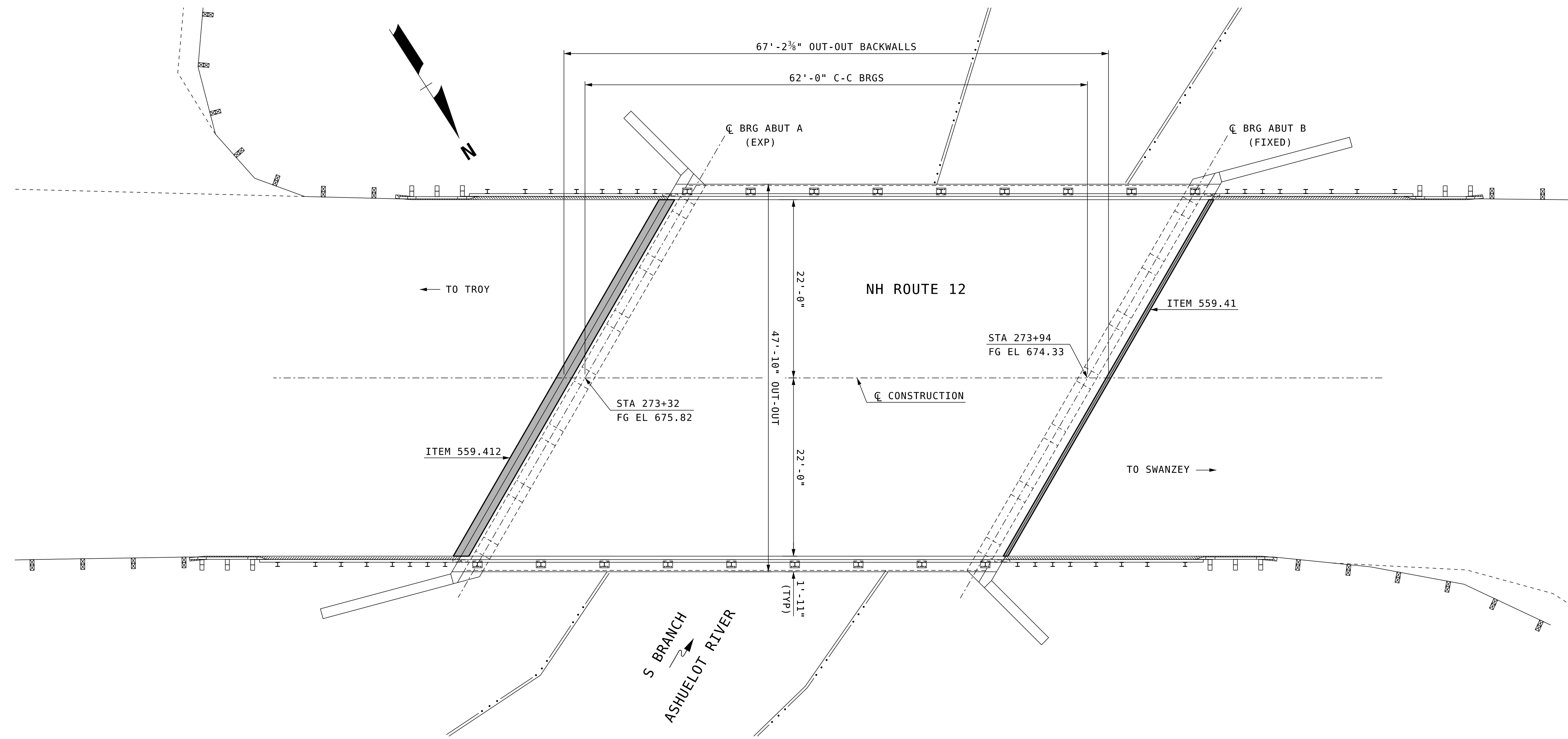
SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

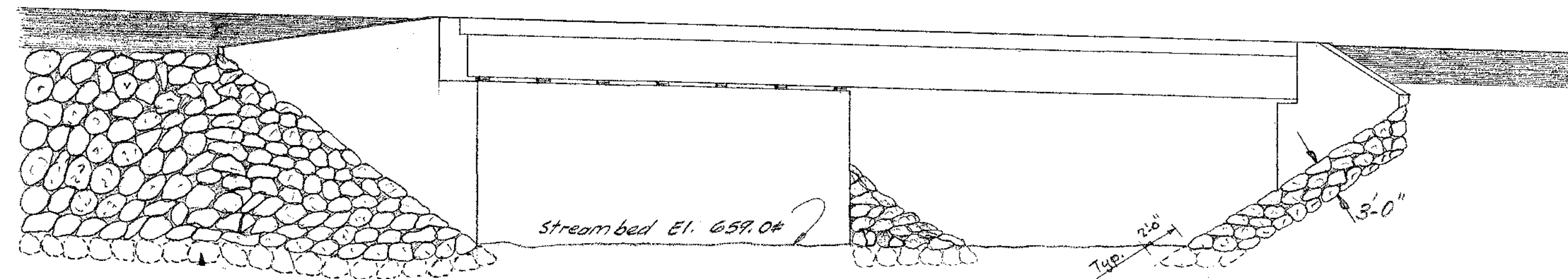
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR NO 072-075	072-075 Decksect	AS NOTED

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	MARLBOROUGH	BRIDGE NO.	072/075	STATE PROJECT	44054
LOCATION NH ROUTE 12 over S BRANCH ASHUELOT RIVER					
DECK PHASING BR NO 072/075					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					6 OF 8
DESIGNED	SMG	9/22	CHECKED	DLS	8/23
DRAWN	SMG	9/22	CHECKED	DLS	8/23
QUANTITIES	SMG	7/23	CHECKED	GMC	7/23
ISSUE DATE	XX/XX	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
REV. DATE	XX/XX			10	18



GENERAL PLAN

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



ELEVATION

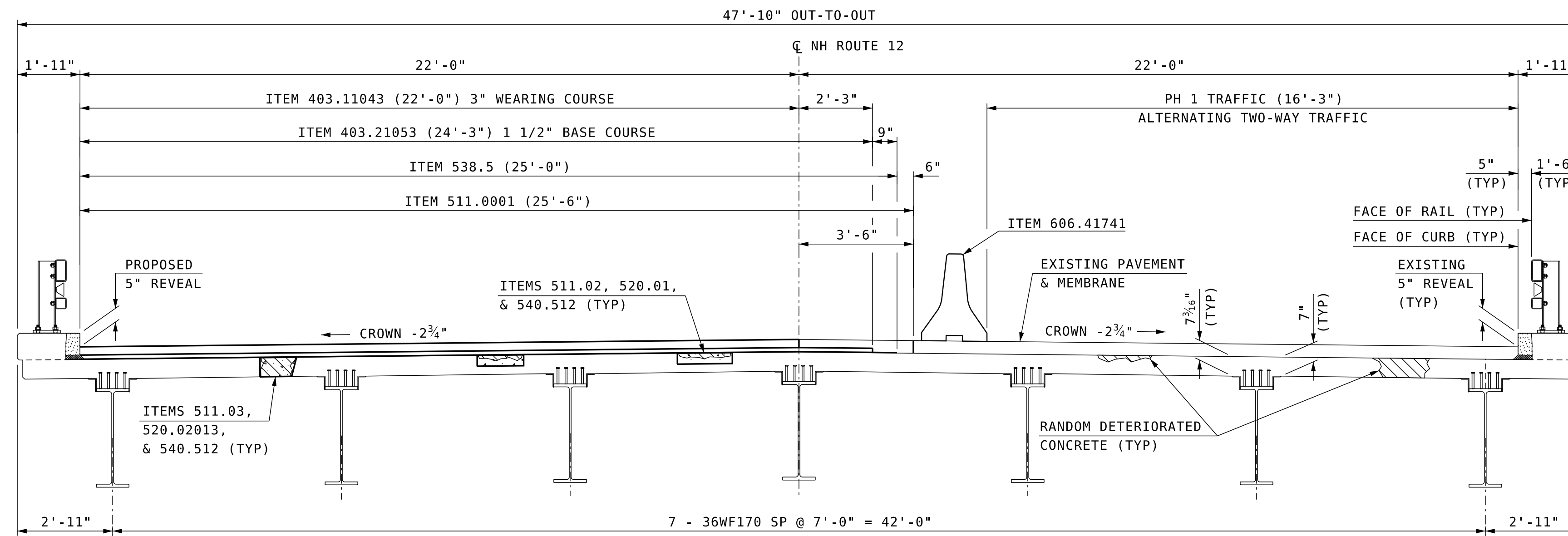
SCALE: 1/8" = 1'-0"

NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

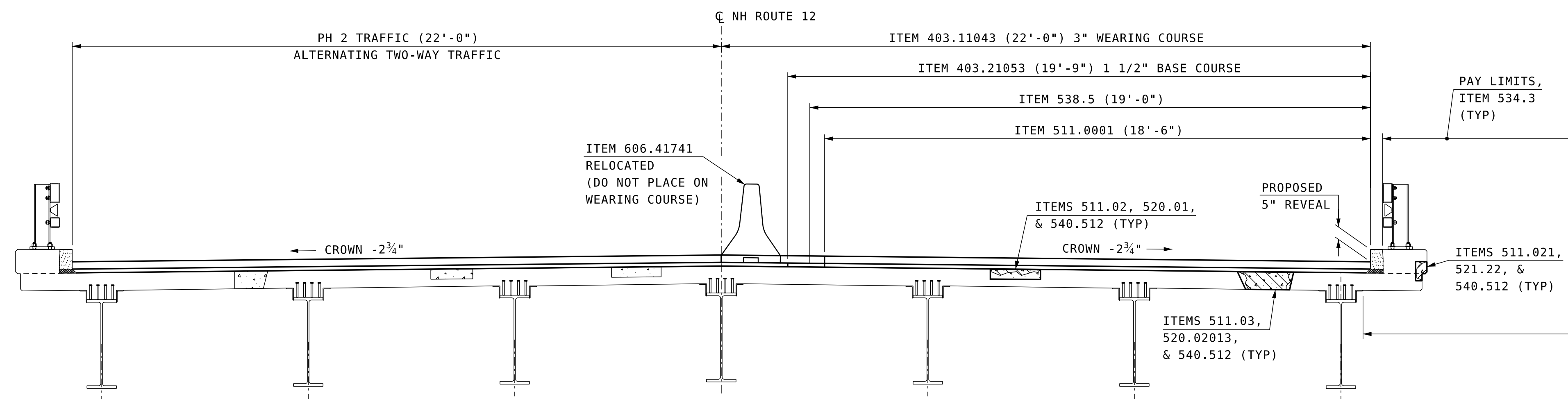
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN MARLBOROUGH		BRIDGE NO. 066/080		STATE PROJECT 44054					
LOCATION NH ROUTE 12 over S BRANCH ASHUELOT RIVER									
GENERAL PLAN & ELEV BR NO 066/080									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	BRIDGE SHEET		
		DESIGNED	SMG 9/22	CHECKED	DLS 8/23		7 OF 8		
		DRAWN	SMG 9/22	CHECKED	DLS 8/23		FILE NUMBER		
		QUANTITIES	SMG 7/23	CHECKED	GMC 7/23				
		ISSUE DATE	XX/XX	FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS	
		REV. DATE	XX/XX			11		18	

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR NO 066-080	066-080 Genplan	AS NOTED



PHASE 1 CONSTRUCTION

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



PHASE 2 CONSTRUCTION

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

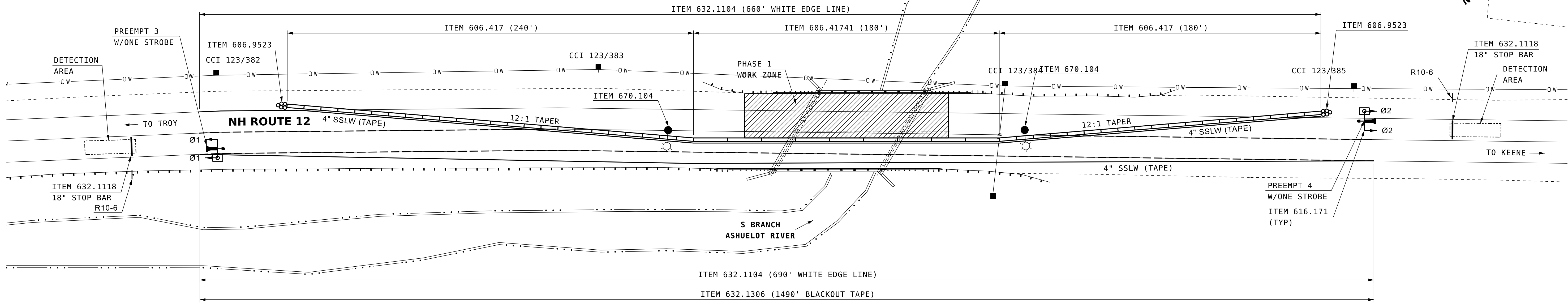
NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
BR NO 066-080	066-080 Decksect	AS NOTED

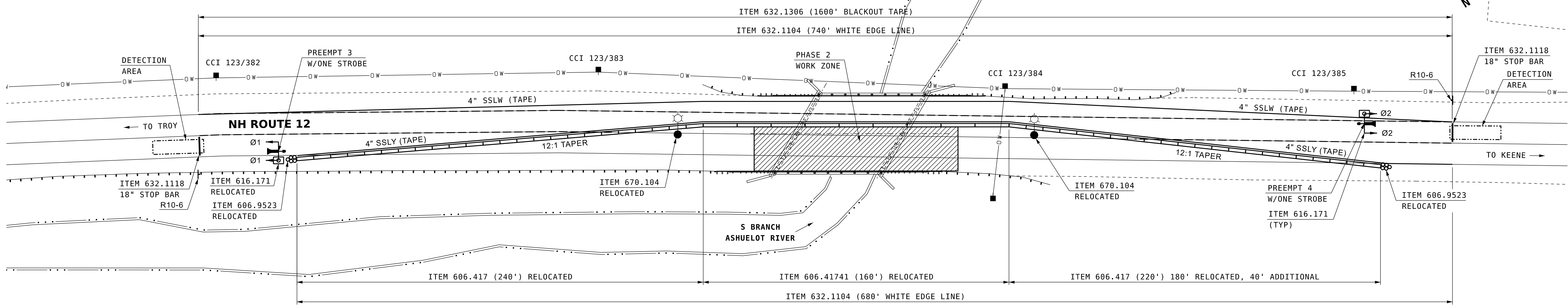
STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	MARLBOROUGH	BRIDGE NO.	066/080	STATE PROJECT	44054
LOCATION NH ROUTE 12 over S BRANCH ASHUELOT RIVER					
DECK PHASING BR NO 066/080					BRIDGE SHEET
					8 OF 8
DESIGNED	SMG	9/22	CHECKED	DLS	8/23
DRAWN	SMG	9/22	CHECKED	DLS	8/23
QUANTITIES	SMG	7/23	CHECKED	GMC	7/23
ISSUE DATE	XX/XX	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
REV. DATE	XX/XX			12	18

SDR PROCESSED	NAME1	DATE	DATE1
NEW DESIGN	TRAFFIC	DATE	8/23
SHEET CHECKED	NAMES	DATE	DATE3
AS BUILT DETAILS		DATE	



NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

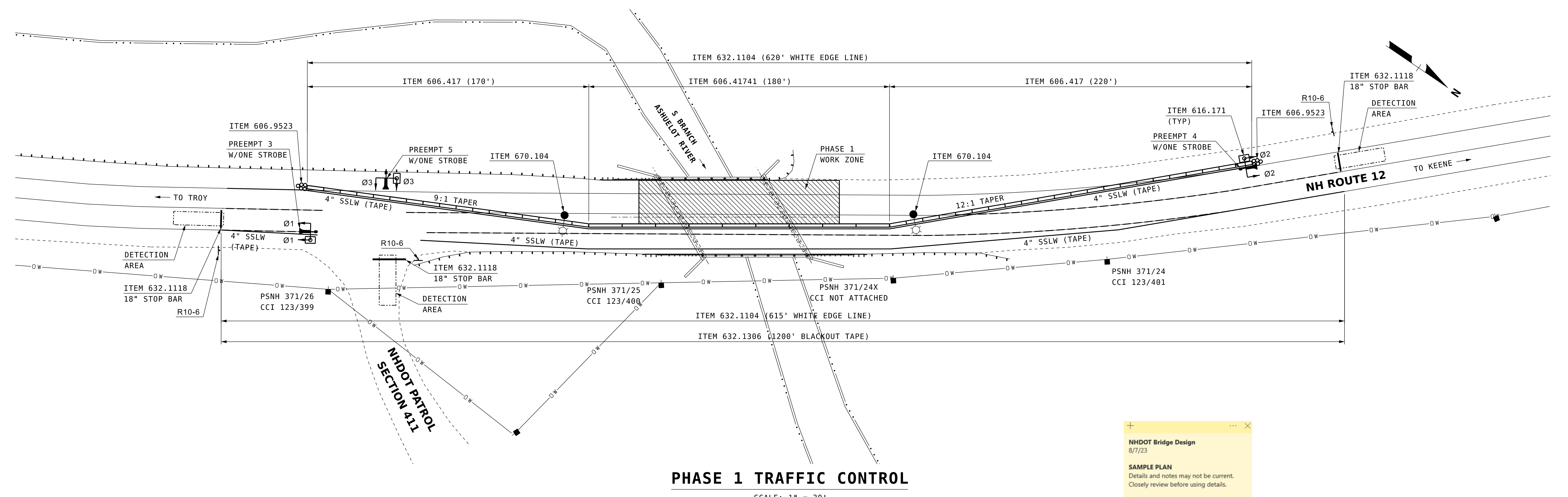


SEE NHDOT TC-7 FOR
LOCATION OF ADDITIONAL
REQUIRED SIGNING OUTSIDE
THE LIMITS OF THIS SHEET

STATE OF NEW HAMPSHIRE MARLBOROUGH			
DEPARTMENT OF TRANSPORTATION		BUREAU OF BRIDGE DESIGN	
TRAFFIC CONTROL BR NO 077/065			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
077-065 TRF	44054	13	18

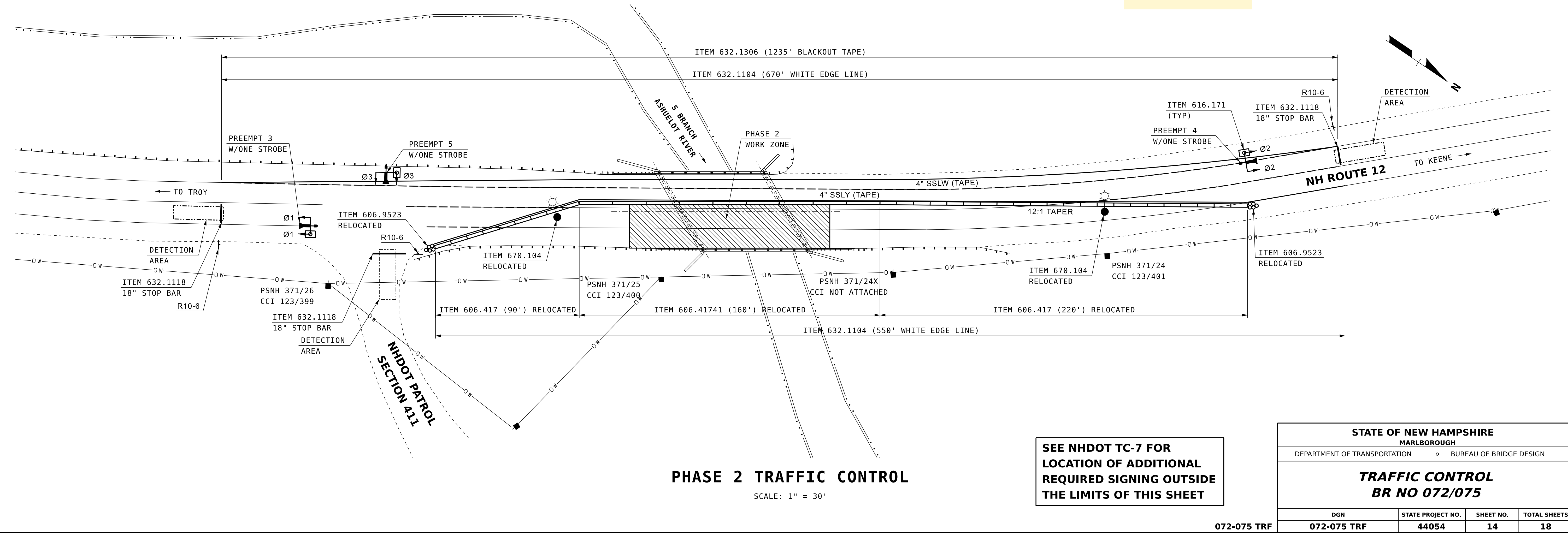
077-065 TRF

SDR PROCESSED	NAME1	DATE	DATE1
NEW DESIGN	TRAFFIC	DATE	8/23
SHEET CHECKED	NAME3	DATE	DATE3
AS BUILT DETAILS		DATE	



NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

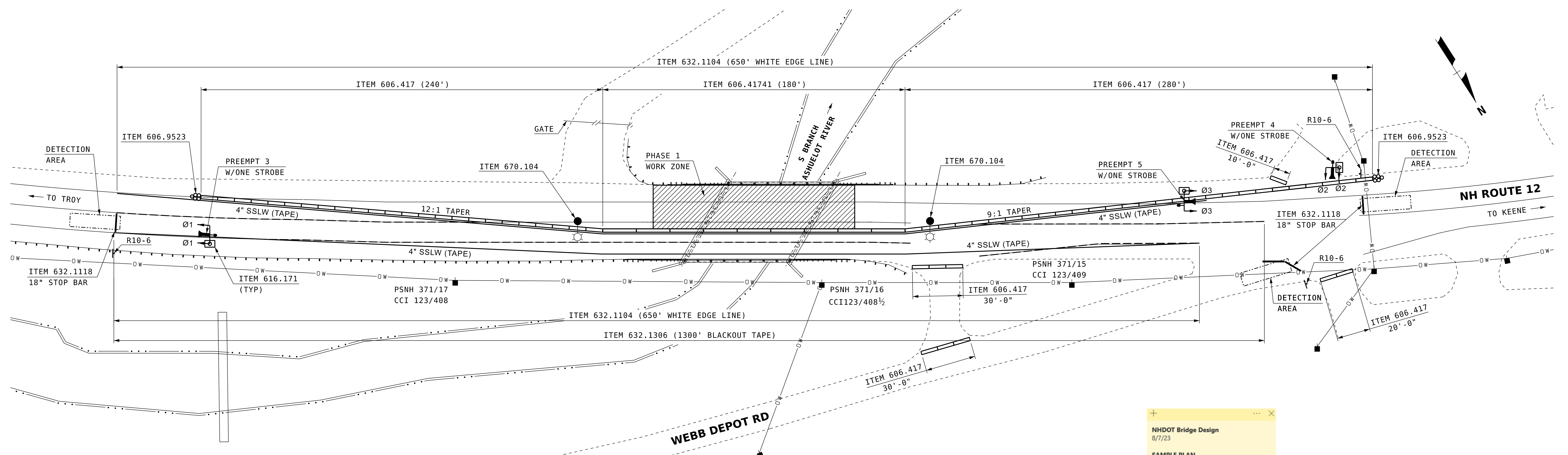


**SEE NHDOT TC-7 FOR
LOCATION OF ADDITIONAL
REQUIRED SIGNING OUTSIDE
THE LIMITS OF THIS SHEET**

STATE OF NEW HAMPSHIRE MARLBOROUGH			
DEPARTMENT OF TRANSPORTATION		BUREAU OF BRIDGE DESIGN	
TRAFFIC CONTROL BR NO 072/075			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
072-075 TRF	44054	14	18

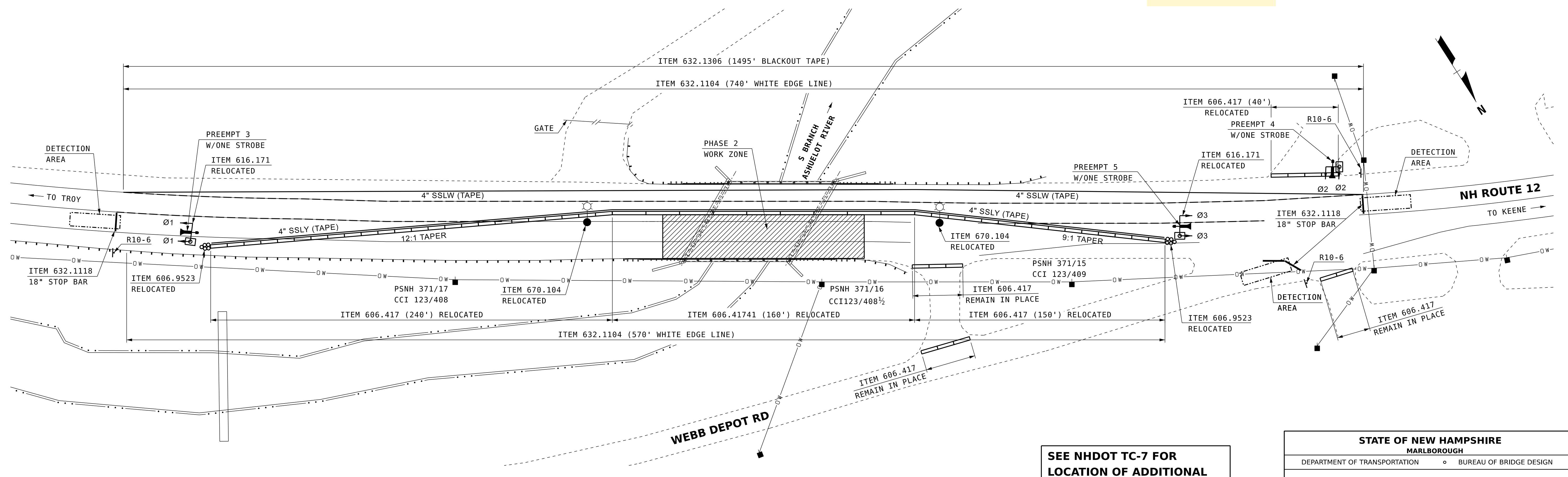
072-075 TRF

SDR PROCESSED	NAME1	DATE1	AS BUILT DETAILS
	NEW DESIGN	DATE	
SHEET CHECKED	TRAFFIC	8/23	
	NAME3	DATE3	
REVISIONS AFTER PROPOSAL			
NUMBER	DATE	STATION	DESCRIPTION



NHDOT Bridge Design
8/7/23

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.



**SEE NHDOT TC-7 FOR
LOCATION OF ADDITIONAL
REQUIRED SIGNING OUTSIDE
THE LIMITS OF THIS SHEET**

STATE OF NEW HAMPSHIRE MARLBOROUGH			
DEPARTMENT OF TRANSPORTATION		BUREAU OF BRIDGE DESIGN	
TRAFFIC CONTROL BR NO 066/080			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
066-080 TRF	44054	15	18

066-080 TRF

SDR PROCESSED	NAME1	DATE1	AS BUILT DETAILS
	TRAFFIC	DATE 8/23	
	NAME3	DATE	
	DATE	DATE	
NEW DESIGN	DATE	DATE	DATE
SHEET CHECKED	DATE	DATE	DATE
DESCRIPTION	STATION	STATION	DATE
REVISIONS AFTER PROPOSAL	NUMBER	DATE	DATE

SIGNAL PHASING PH 1			
TIMING IN SECONDS	Φ1	Φ2	
	→	←	
INITIAL INTERVAL	10	10	
VEHICLE EXTENSION	5	5	
MAXIMUM I	30	30	
MAXIMUM II			
YELLOW	4	4	
ALL RED	27	27	
WALK/FLASH DON'T WALK			
RECALL	SOFT	OFF	
DETECTOR	NL	NL	
FLASH	FR	FR	

RED CLEARANCE BASED ON A VEHICLE SPEED OF 20 MPH OR 30 FPS

SIGNAL PHASING PH 2			
TIMING IN SECONDS	Φ1	Φ2	
	→	←	
INITIAL INTERVAL	10	10	
VEHICLE EXTENSION	5	5	
MAXIMUM I	30	30	
MAXIMUM II			
YELLOW	4	4	
ALL RED	27	27	
WALK/FLASH DON'T WALK			
RECALL	OFF	SOFT	
DETECTOR	NL	NL	
FLASH	FR	FR	

RED CLEARANCE BASED ON A VEHICLE SPEED OF 20 MPH OR 30 FPS

SIGNAL PHASING PH 1			
TIMING IN SECONDS	Φ1	Φ2	Φ3
	→	←	↘
INITIAL INTERVAL	10	10	5
VEHICLE EXTENSION	5	5	5
MAXIMUM I	30	30	10
MAXIMUM II			
YELLOW	4	4	4
ALL RED	25	25	3
WALK/FLASH DON'T WALK			
RECALL	SOFT	OFF	OFF
DETECTOR	NL	NL	NL
FLASH	FR	FR	FR

RED CLEARANCE BASED ON A VEHICLE SPEED OF 20 MPH OR 30 FPS

SIGNAL PHASING PH 2			
TIMING IN SECONDS	Φ1	Φ2	Φ3
	→	←	↘
INITIAL INTERVAL	10	10	5
VEHICLE EXTENSION	5	5	5
MAXIMUM I	30	30	10
MAXIMUM II			
YELLOW	4	4	4
ALL RED	25	25	3
WALK/FLASH DON'T WALK			
RECALL	OFF	SOFT	OFF
DETECTOR	NL	NL	NL
FLASH	FR	FR	FR

RED CLEARANCE BASED ON A VEHICLE SPEED OF 20 MPH OR 30 FPS

SIGNAL PHASING PH 1			
TIMING IN SECONDS	Φ1	Φ2	Φ3
	→	↘	←
INITIAL INTERVAL	10	10	10
VEHICLE EXTENSION	5	5	5
MAXIMUM I	30	15	30
MAXIMUM II			
YELLOW	4	4	4
ALL RED	27	3	27
WALK/FLASH DON'T WALK			
RECALL	SOFT	OFF	OFF
DETECTOR	NL	NL	NL
FLASH	FR	FR	FR

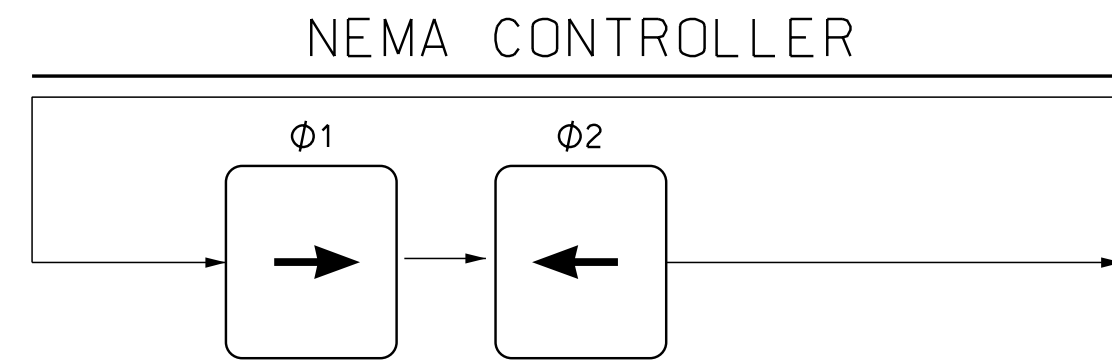
RED CLEARANCE BASED ON A VEHICLE SPEED OF 20 MPH OR 30 FPS

SIGNAL PHASING PH 2			
TIMING IN SECONDS	Φ1	Φ2	Φ3
	→	↘	←
INITIAL INTERVAL	10	10	10
VEHICLE EXTENSION	5	5	5
MAXIMUM I	30	15	30
MAXIMUM II			
YELLOW	4	4	4
ALL RED	27	3	27
WALK/FLASH DON'T WALK			
RECALL	OFF	OFF	SOFT
DETECTOR	NL	NL	NL
FLASH	FR	FR	FR

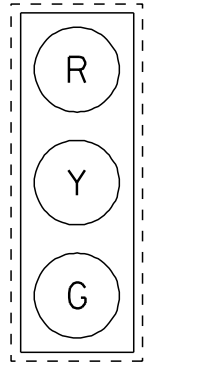
RED CLEARANCE BASED ON A VEHICLE SPEED OF 20 MPH OR 30 FPS

EMERGENCY PREEMPT	
PREEMPT 3	CALLS Φ1
PREEMPT 4	CALLS Φ2

BR NO 077/065



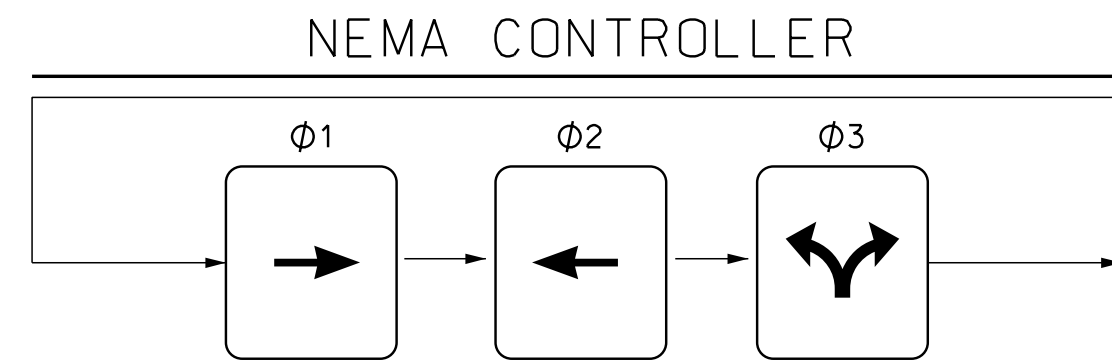
SIGNAL HEADS
ALL LENSES 12" WITH 5" LOUVERED BACK PLATE. THE OUTSIDE PERIMETER OF THE BACKPLATE SHALL BE LINED WITH A FLUORESCENT-YELLOW 2-INCH STRIP OF TYPE 1X OR XI RETROREFLECTIVE SHEETING TO HIGHLIGHT THE THREE-SECTION SIGNAL HEAD.



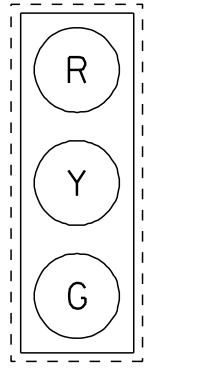
Ø1, 2, 3

EMERGENCY PREEMPT	
PREEMPT 3	CALLS Φ1
PREEMPT 4	CALLS Φ2
PREEMPT 5	CALLS Φ3

BR NO 072/075



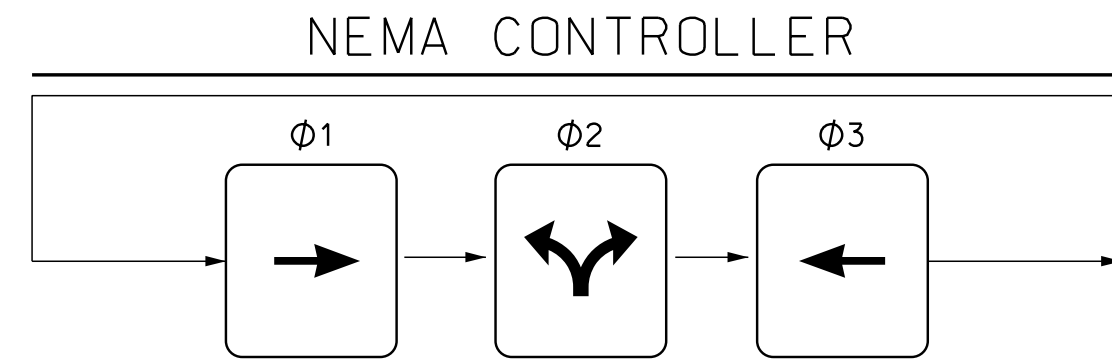
SIGNAL HEADS
ALL LENSES 12" WITH 5" LOUVERED BACK PLATE. THE OUTSIDE PERIMETER OF THE BACKPLATE SHALL BE LINED WITH A FLUORESCENT-YELLOW 2-INCH STRIP OF TYPE 1X OR XI RETROREFLECTIVE SHEETING TO HIGHLIGHT THE THREE-SECTION SIGNAL HEAD.



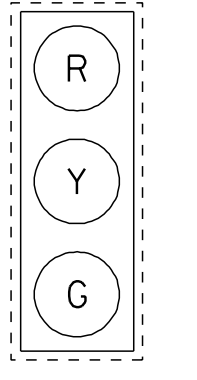
Ø1, 2, 3

EMERGENCY PREEMPT	
PREEMPT 3	CALLS Φ1
PREEMPT 4	CALLS Φ2
PREEMPT 5	CALLS Φ3

BR NO 066/080



SIGNAL HEADS
ALL LENSES 12" WITH 5" LOUVERED BACK PLATE. THE OUTSIDE PERIMETER OF THE BACKPLATE SHALL BE LINED WITH A FLUORESCENT-YELLOW 2-INCH STRIP OF TYPE 1X OR XI RETROREFLECTIVE SHEETING TO HIGHLIGHT THE THREE-SECTION SIGNAL HEAD.



Ø1, 2, 3

GENERAL NOTES

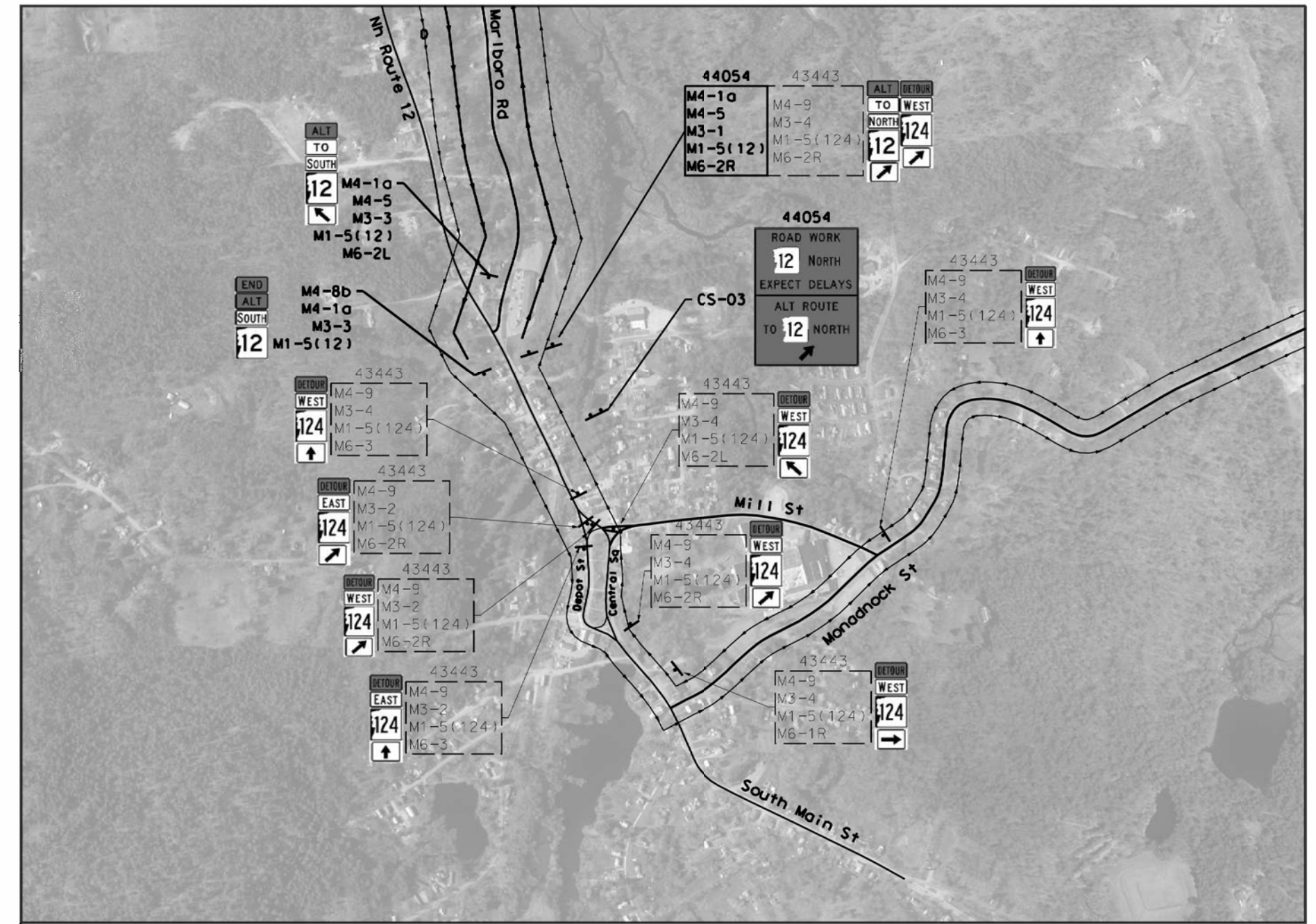
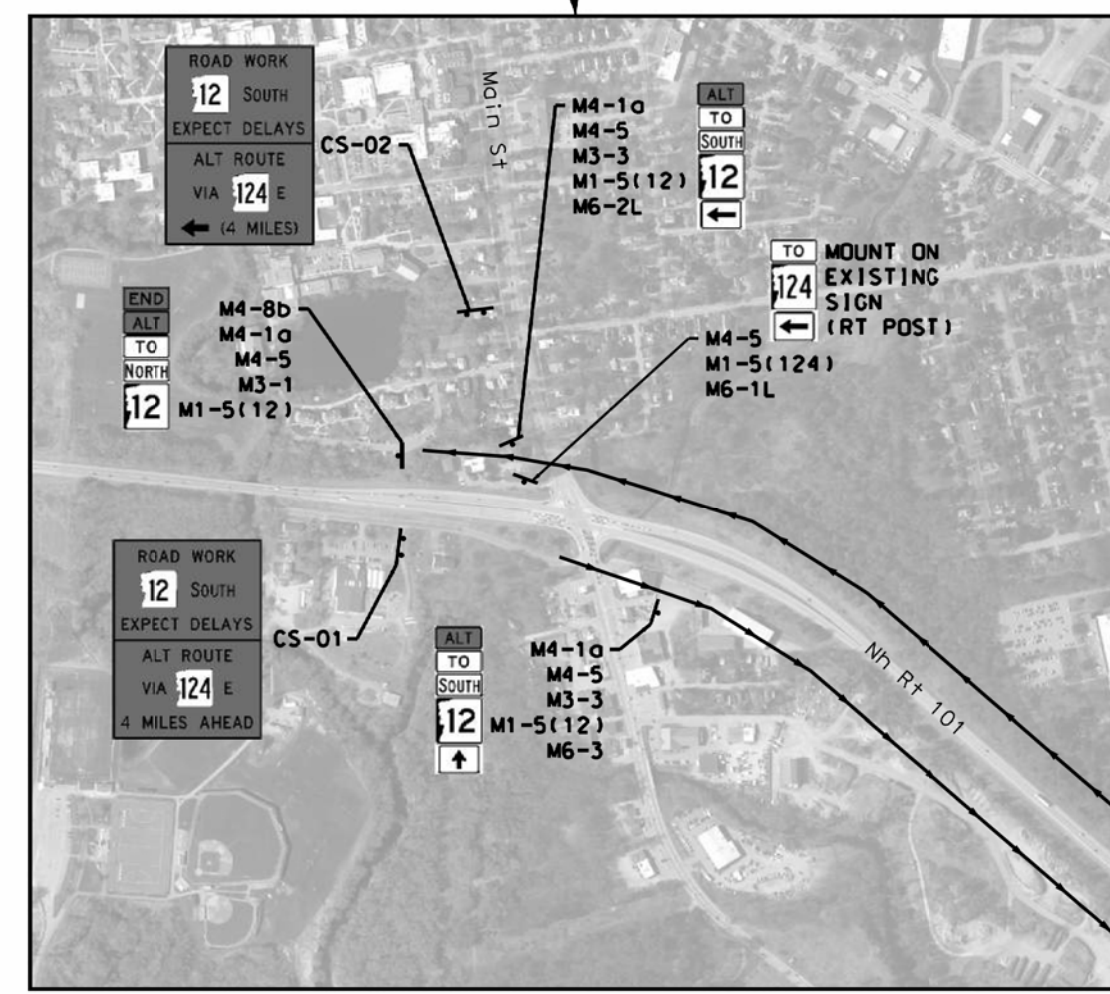
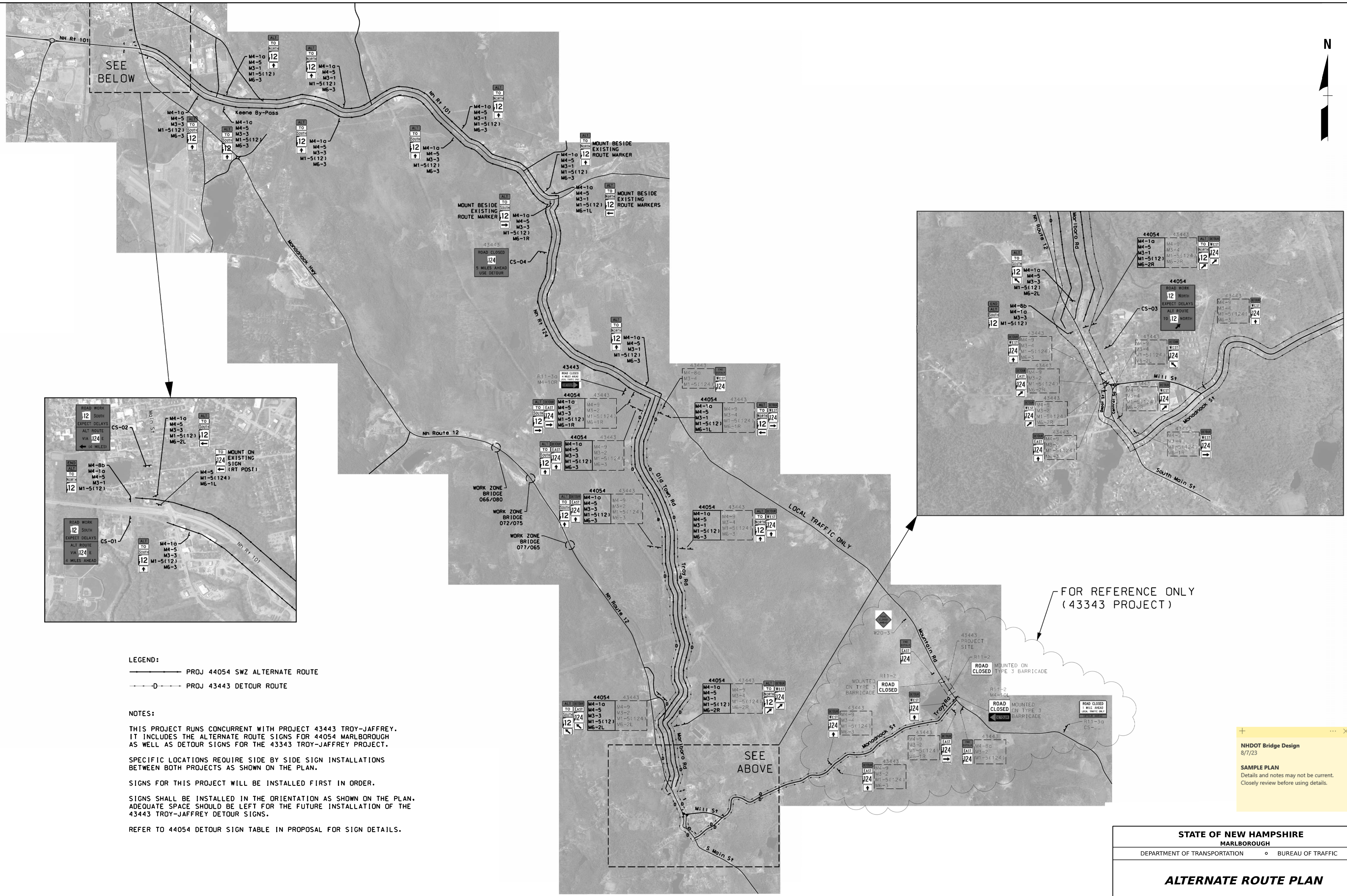
1. LOCATION OF EMERGENCY VEHICLE PREEMPTION RECEIVERS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR, ENGINEER, AND THE MARLBOROUGH FIRE DEPARTMENT.
2. PREEMPTION SIGNAL SHALL BE SERVED ON A FIRST COME - FIRST SERVE BASIS.
3. MINIMUM GREEN TIME AND NORMAL VEHICLE CLEARANCE TIMES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
4. TEMPORARY TRAILER MOUNTED TRAFFIC SIGNAL WILL BE PAID FOR UNDER ITEM 616.171, PORTABLE TRAFFIC SIGNALS (PTS) SYSTEM.

NHDOT Bridge Design
8/7/23
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

STATE OF NEW HAMPSHIRE MARLBOROUGH			
DEPARTMENT OF TRANSPORTATION		BUREAU OF TRAFFIC	
TEMPORARY SIGNAL TIMING			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
TIMING	44054	16	18

TIMING SHEET

SDR PROCESSED	NAME1	DATE1	DATE1	DESCRIPTION
	NAME2	DATE2	DATE2	
	NAME3	DATE3	DATE3	
	AS BUILT DETAILS			
NEW DESIGN	NUMBER	DATE	STATION	
	NUMBER	DATE	STATION	
	NUMBER	DATE	STATION	



LEGEND:
 ——— PROJ 44054 SWZ ALTERNATE ROUTE
 - - - - - PROJ 43443 DETOUR ROUTE

NOTES:
 THIS PROJECT RUNS CONCURRENT WITH PROJECT 43443 TROY-JAFFREY. IT INCLUDES THE ALTERNATE ROUTE SIGNS FOR 44054 MARLBOROUGH AS WELL AS DETOUR SIGNS FOR THE 43343 TROY-JAFFREY PROJECT.
 SPECIFIC LOCATIONS REQUIRE SIDE BY SIDE SIGN INSTALLATIONS BETWEEN BOTH PROJECTS AS SHOWN ON THE PLAN.
 SIGNS FOR THIS PROJECT WILL BE INSTALLED FIRST IN ORDER.
 SIGNS SHALL BE INSTALLED IN THE ORIENTATION AS SHOWN ON THE PLAN. ADEQUATE SPACE SHOULD BE LEFT FOR THE FUTURE INSTALLATION OF THE 43443 TROY-JAFFREY DETOUR SIGNS.
 REFER TO 44054 DETOUR SIGN TABLE IN PROPOSAL FOR SIGN DETAILS.

FOR REFERENCE ONLY
(43343 PROJECT)

NHDOT Bridge Design
8/7/23
SAMPLE PLAN
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STATE OF NEW HAMPSHIRE MARLBOROUGH			
DEPARTMENT OF TRANSPORTATION		BUREAU OF TRAFFIC	
ALTERNATE ROUTE PLAN			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
44054 Detour	44054	17	18

detour sheet

SDR PROCESSED	NAME1	DATE	DATE1	DATE	DATE2	DATE	DATE3
	NEW DESIGN	NAME2	DATE	DATE1	DATE	DATE2	DATE3
AS BUILT DETAILS	SHEET CHECKED	NAME3	DATE	DATE1	DATE	DATE2	DATE3
REVISIONS AFTER PROPOSAL	STATION	DATE	DESCRIPTION				

44054 PERMANENT CONSTRUCTION SIGN TABLE

SIGN NO.	DESCRIPTION	SIZE (ft)	S.F.	NO. REQ.	TOTAL AREA	POSTS	REMARKS
G20-2a	END ROAD WORK	2x4	8	2	16	4	BLACK/FLUORESCENT ORANGE
G20-1e	ROAD WORK NEXT 2 MILES	3x6	18	2	36	4	BLACK/FLUORESCENT ORANGE
W20-1e	ROAD WORK 1/2 MILE	4x4	16	2	32	4	BLACK/FLUORESCENT ORANGE.
R4-11	BICYCLE MAY USE FULL LANE	2.5x2.5	6.25	6	37.5	6	BLACK/WHITE.
R50-1	NH LAW WORK ZONE	4x6	24	2	48	4	BLACK/WHITE.

The estimated quantities of "Permanent Controls" are listed above. The Contractor shall be responsible for all operational construction signs per section 619.1.2 and they shall be subsidiary to the work per 619.5.1.5. These signs shall include but are not limited to "LOW SHOULDER" (W8-9).

44054 ALTERNATE ROUTE SIGN TABLE

SIGN NO.	DESCRIPTION	SIZE (ft)	S.F.	NO. REQ.	TOTAL AREA	U-CHANNEL POSTS	4" OD ALUMINUM POSTS (BREAK-AWAY)	REMARKS
CS-01	ROAD WORK NH 12 (SHIELD) SOUTH EXPECT DELAYS ALT ROUTE NH124 (SHIELD) TO NH12 (SHIELD) S 4 MILES AHEAD	6x9	45	1	45		2	BLACK/WHITE/ORANGE (IF NEEDED). SEE CONSTRUCTION SIGN TEXT LAYOUT FOR DESIGN
CS-02	ROAD WORK NH12 (SHIELD) SOUTH EXPECT DELAYS ALT ROUTE NH124 (SHIELD) TO NH12 (SHIELD) S (LT ARROW) (4 MILES)	6x9	45	1	45		2	BLACK/WHITE/ORANGE (IF NEEDED). SEE CONSTRUCTION SIGN TEXT LAYOUT FOR DESIGN
CS-03	ROAD WORK NH12 (SHIELD) NORTH EXPECT DELAYS ALT ROUTE NH124 (SHIELD) TO NH12 (SHIELD) N (RT ARROW) @ 45°	6x9	45	1	45		2	BLACK/WHITE/ORANGE (IF NEEDED). SEE CONSTRUCTION SIGN TEXT LAYOUT FOR DESIGN
M1-5(12)	NH 12 (STATE ROUTE SHIELD)	2x2	4	24	96	24		BLACK/WHITE
M1-5(124)	NH 124 (STATE ROUTE SHIELD)	2x2	4	1	4			BLACK/WHITE MOUNT ON EXISTING SIGN POST (SEE PLAN)
M3-1	NORTH (CARDINAL DIRECTION)	1x2	2	11	22			BLACK/WHITE MOUNT BELOW M1-5(12)
M3-3	SOUTH (CARDINAL DIRECTION)	1x2	2	13	26			BLACK/WHITE MOUNT ABOVE M1-5(12)
M4-1a	ALT (ALTERNATE AUXILIARY)	1x2	2	24	48			BLACK/ORANGE MOUNT ABOVE M3-1, M3-3, M1-5(124)
M4-5	TO (TO AUXILIARY)	1x2	2	24	48			BLACK/ORANGE MOUNT ABOVE M3-1, M3-3, M1-5(124)
M6-1L	LEFT ARROW	1.2x1.75	2.19	3	6.57			BLACK/WHITE MOUNT BELOW M1-5(12), M-15(124)
M6-1R	RIGHT ARROW	1.2x1.75	2.19	2	4.38			BLACK/WHITE MOUNT BELOW M1-5(12)
M6-2R	RIGHT ARROW @ 45 DEG	1.2x1.75	2.19	2	4.38			BLACK/WHITE MOUNT BELOW M1-5(12)
M6-2L	LEFT ARROW @ 45 DEG	1.2x1.75	2.19	3	6.57			BLACK/WHITE MOUNT BELOW M1-5(12)
M6-3	UP ARROW	1.2x1.75	2.19	13	28.47			BLACK/WHITE MOUNT BELOW M1-5(12)

ITEM #	IDENT #	SIGN SIZE		TEXT	TEXT DIMENSIONS			SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.)		POSTS PER SIGN				REMARKS
		WIDTH (inch)	HEIGHT (inch)		UC	LC	CAPS					NOM AREA	TOTAL AREA	BREAKAWAY	STEEL I-BEAM	4" OD ALUMINUM	U-CHANNEL-GALV.	
619	CS-01	60	96	ROAD WORK 12 SOUTH EXPECT DELAYS ALT ROUTE NH124 TO NH12 S 4 MILES AHEAD	6D 7D/6D 6C			18			1	40.00	40.00	X		2	BLACK/WHITE/ORANGE 1/2" BB GRADE EXTERIOR PLYWOOD	
619	CS-02	60	96	ROAD WORK 12 SOUTH EXPECT DELAYS ALT ROUTE NH124 TO NH12 S (4 MILES)	6D 7D/6D 6C			18/18			1	40.00	40.00	X		2	BLACK/WHITE/ORANGE 1/2" BB GRADE EXTERIOR PLYWOOD	
619	CS-03	60	96	ROAD WORK 12 NORTH EXPECT DELAYS ALT ROUTE NH124 TO NH12 N	6D 7D/6D 6C			18/18	2.5x1.125 @45 deg		1	40.00	40.00	X		2	BLACK/WHITE/ORANGE 1/2" BB GRADE EXTERIOR PLYWOOD	

NHDOT Bridge Design
8/7/23
SAMPLE PLAN
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- GENERAL NOTES**
- REFER TO THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.
 - NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 718 PUBLISHED BY THE NHDOT.
 - REFER TO THE 2010 STANDARD PLANS FOR ROAD CONSTRUCTION AS PUBLISHED BY THE NHDOT FOR EXACT DETAILS OF PERMANENT SIGNING STANDARDS AND NHDOT SPECIFIC SIGNS.
 - REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.
 - THE ALUMINUM OR U-CHANNEL POST SHALL BE FLUSH WITH THE TOP OF THE SIGN ON ALL ASSEMBLIES.
 - REFER TO 'ROUTE MARKER POST ASSEMBLY DETAIL' LOCATED IN THE PROPOSAL FOR SIDE BY SIDE ROUTE MARKER SIGN INSTALLATIONS.
 - DIGITALLY PRINTED SIGNS SHALL NOT BE PERMITTED.

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC

**CONSTRUCTION
SIGN TEXT LAYOUT**

EXCEL FILE NAME	STATE PROJECT NO. FEDERAL PROJECT NO. SHEET NO.	TOTAL SHEETS
	44054 18	18