

## PLANS OF REPAIRS TO THE DURHAM POINT ROAD BRIDGE OVER CROMMET CREEK (BR. NO. 150/065) MARCH 2016

LEGEND

$\mathcal{O}$	UTILITY POLE	
$\ominus$	GUY WIRE ANCHOR	
¢	UTILITY POLE W/LIGHT	
	MAILBOX	
$\oplus$	CATCH BASIN	
WY	WATER VALVE	
# <u></u>	WATER SHUTOFF	
Д	HYDRANT	
₩	FLOODLIGHT	
₩.	ELECTRIC METER	$\sim$
	CON. SHRUB	
Ð	DEC. SHRUB	
-0-0-	SIGNS	ᆂᆂ
$\oplus$	MANHOLE (SEWER, TEL)	
0B	TOP OF BANK	ى

GAS — GAS LINE — S — SEWER - OE --- OVERHEAD UTILITY WIRES WOOD FENCE - • — STONE WALL EXISTING EDGE OF PAVEMENT EDGE OF TRAVEL WAY TREELINE EDGE OF STREAM LLLL CUT SLOPE \_\_\_\_\_ FILL SLOPE 💥 💱 🛞 TREES

28/2016 22:04 PM

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# TOWN OF DURHAM DURHAM, NEW HAMPSHIRE STRAFFORD COUNTY



FINAL PLANS NOT FOR CONSTRUCTION

DRAWING SIZES HAVE BEEN REDUCED. DO NOT SCALE, USE DIMENSIONS GIVEN.

#### GENERAL NOTES

- OTHER TRADES.
- SHOWN.
- WITH THE WORK.
- - MANCHESTER, NH 03101.
- MARKED IN THE FIELD.
- - THEY CUNVEY.
- DURING CONSTRUCTION.

IN	<u>dex</u>	OF	SHEE	<u>  S</u>
<u>SH</u>	EET	NO.		$\Box$
1	OF	11		Т
2	OF	11		С
3	OF	11		R
4	OF	11		R
5	OF	11		D
6	OF	11		G
7	OF	11		R
8	OF	11		R
9	OF	11		R
10	OF	11		R
11	OF	11		R

(1) GENERAL NOTES SHALL APPLY TO ALL DRAWINGS PREPARED BY HOYLE, TANNER & ASSOCIATES, INC. (HOYLE, TANNER) AND THE PROPOSED WORK THEY CONVEY. (2) ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS, THE MORE STRINGENT SHALL GOVERN. (3) THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND COORDINATION OF (4) THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SITE SAFETY SHALL SOLELY BE THE CONTRACTORS RESPONSIBILITY. (5) ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPONSIBLE TRADES PRIOR TO COMMENCING WITH THE WORK, FABRICATION OR ORDERING MATERIALS, DO NOT SCALE DRAWINGS, USE DIMENSIONS (6) ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND AS-BUILT CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, BEFORE PROCEEDING (7) IN THE PREPARATION OF THESE DRAWINGS, HOYLE, TANNER HAS RELIED UPON INFORMATION OBTAINED FROM THE FOLLOWING PLANS: - TOWN OF DURHAM, N.H., DURHAM POINT ROAD, BRIDGE REPAIR, DATED OCTOBER 1992, PREPARED BY UNDERWOOD ENGINEERS, INC., 2 SHEETS. THIS INFORMATION IS AVAILABLE FOR REVIEW DURING NORMAL BUSINESS HOURS AT THE OFFICE OF HOYLE, TANNER AND ASSOCIATES, INC., 150 DOW STREET, **P** (8) THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. anr THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE te THERETO, ALL COSTS FOR DETERMINING UNDERGROUND UTILITY TYPES AND LOCATIONS SHALL BE SUBSIDIARY TO THE CONTRACT. **D** (9) ALL APPLICABLE UTILITY DEPARTMENTS AND COMPANIES SHALL BE NOTIFIED BEFORE EXCAVATION IS STARTED. UTILITIES WITHIN 50 FEET OF AN EXCAVATION SHALL BE <u>o</u> (10) HOYLE, TANNER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE DUE TO THE FAILURE OF THE CONTRACTOR: \* TO FOLLOW THESE DRAWINGS AND SPECIFICATIONS AND THE DESIGN INTENT \* TO NOTIFY HOYLE, TANNER OF ANY DISCREPANCIES, ERRORS, OMISSIONS OR CONFLICTS AND OBTAIN THEIR GUIDANCE TO RESOLVE. (11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED (12) THE CONTRACTOR SHOULD NOTE THAT THE NHDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" ARE MADE A PART OF THIS PROJECT AND ALL APPLICABLE DETAILS, STANDARDS AND SPECIFICATIONS SHALL APPLY. TOWN OF DURHAM DURHAM, NEW HAMPSHIRE (13) THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" BY THE NEW SHEET HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES. TITLE <u>description</u> TITLE SHEET CONSTRUCTION NOTES AND SUMMARY OF QUANTITIES ROADWAY TYPICAL SECTION AND DETAILS PROJECT NO .: 902705 ROADWAY PLAN FILE NAME: 902705Fsc ETOUR PLAN SENERAL PLAN AND ELEVATION MODEL NAME: 902705FSC REPAIR DETAILS (1 OF 2) SHEET NO. REPAIR DETAILS (2 OF 2) RAIL LAYOUT PLAN RAIL DETAILS (1 OF 2) RAIL DETAILS (2 OF 2) SHEET 1 OF 11

<u>GEN</u>	NERAL CONSTRUCTION NOTES	<u>STR</u>	UCTU
1) T	THE BRIDGE WILL BE CLOSED DURING CONSTRUCTION AND TRAFFIC WILL BE DETOURED AROUND THE	(1)	NO ST
2) T	THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, ERECTING, AND MAINTAINING	(2)	THE T These
P B S C	ERMANENT CONSTRUCTION FENCING, SIGNS, AND/OR WARNING DEVICES AS APPROVED OR DIRECTED Y THE ENGINEER, ALL DEVICES SHALL CONFORM TO SECTION 619 OF THE NHDOT STANDARD PECIFICATIONS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WORK IN THE PROJECT OR ANY SEPARATE ACTIVITY THEREIN SHALL NOT START UNTIL ALL REQUIRED	(3)	the c May e
S E	IGNS AND WARNING DEVICES ARE INSTALLED BY THE CONTRACTOR AND APPROVED BY THE NGINEER, ALL COSTS SHALL BE INCLUDED IN ITEM 619,1,	(4)	THE ( WORKE WASTE
3) D C A F T D	IMENSIONS, ANGLES, BEARINGS AND ELEVATIONS SHOWN ON THESE CONTRACT PLANS HAVE BEEN BTAINED FROM LIMITED FIELD INVESTIGATIONS AND SURVEY, AND MAY NOT ACCURATELY REFLECT CTUAL FIELD CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING IELD MEASUREMENTS OF ALL EXISTING STRUCTURE COMPONENTS IMPACTED BY THE PROPOSED WORK O ASSURE CONSISTENCY WITH THE PROPOSED MODIFICATIONS. ANY DISCREPANCIES IN IMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE	(5)	INSPE PAINT LOOSE ADHES
4) T	TTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK.	(6)	ENCAF AND (
5) I U	TEM 1002.1, REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES SHALL INCLUDE ALL NANTICIPATED WORK IN CONNECTION WITH THE SCOPE OF THIS PROJECT.	(7)	THE CLEAN
3) T C T C	THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT NO DEBRIS FALLS INTO CROMMET REEK DURING CONSTRUCTION OPERATIONS. THE ERECTION, MAINTENANCE AND REMOVAL OF EMPORARY STRUCTURES OR OTHER METHODS TO PREVENT DEBRIS FROM FALLING INTO CROMMET REEK, AND THE CONTRACTOR'S METHOD OF REMOVAL SHALL BE SUBMITTED TO THE ENGINEER FOR	(8)	ITEM The e Shall
TOP	ACCORADUTA CUDVEN NOTEC	<u>SUB</u>	<u>STRL</u>
<u> UF</u>	UGRAPHIC SURVEY NUTES	(1)	EXIS <sup>-</sup>
(1)	THE SURVEY FOR THIS PROJECT WAS COMPLETED BY: SANFORD SURVEY AND ENGINEERING 597 NEW BOSTON ROAD BEDFORD, NH 03110 PHONE: (603) 472-2265		BY TH TO SO EXPO: REMO
(2)	EARL J. SANFORD, LICENSED LAND SURVEYOR NO. 700 THE SURVEY CONSISTED OF 1 SHEET TITLED: EXISTING CONDITIONS PLAN DURHAM POINT ROAD OVER CROMMET CREEK DATED JANUARY 6, 2015	(2)	CONCE STEEL CONTE CONTE
(3)	DATUMS SHOWN ON THESE DRAWINGS:	(3)	ALL F
	VERTICAL - NGVD 1929 HORIZONTAL - NAD83/86	(4)	PRIO
(4)	WETLAND RESOURCES WITHIN THE SURVEY AREA WERE DELINEATED BY PETER SCHAUER (C.W.S. NO. 48) ON DECEMBER 22, 2014.		BE BI BE II
HYD	RAULIC NOTE	(5)	REPA These Conce
(1)	THE PROPOSED CONSTRUCTION MAINTAINS THE EXISTING HYDRAULIC OPENING OF THE BRIDGE.	(6)	HOLES AND ( 528
MOE	BILIZATION AREA NOTES		GROU
(1)	PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL LAYOUT LIMITS OF	(7)	ALL
	MOBILIZATION.	(9)	REIN
(2)	THE CONTRACTOR SHALL BE LIMITED TO MOBILIZATION WITHIN THE TOWN'S RIGHT-OF-WAY SHOWN IN THESE PLANS, UNLESS NOTED OTHERWISE. ADDITIONAL MOBILIZATION AREAS REQUIRED BY THE CONTRACTOR SHALL BE COORDINATED BY THE CONTRACTOR WITH THE AFFECTED PROPERTY OWNERS AND SHALL BE AT NO COST TO THE OWNER.	UTI	LITY
PAV	ING NOTES	(1)	OVER FAMI CONT
			MOB I REQU
(1)	ALL PAVING OPERATIONS SHALL BE PERFORMED BY A SUBCONTRACTOR THAT IS LISTED ON THE NHDOT PREQUALIFIED CONTRACTORS LIST IN THE CATEGORY OF PAVING.		TEMP
(2)	THE BITUMINOUS MIXTURE SHALL BE THOROUGHLY UNIFORMLY COMPACTED BY ROLLING. THE INITIAL ROLLING SHALL BE DONE WITH A STATIC OR VIBRATORY STEEL-DRUM ROLLER. INTERMEDIATE ROLLING SHALL BE DONE BY A PNEUMATIC-TIRED ROLLER. FINAL ROLLING SHALL BE DONE WITH A STATIC DRUM-DRUM ROLLER. THE MINIMUM WEIGHT OF STATIC ROLLER SHALL BE 8 TONS.		
(3)	SUBMIT PAVEMENT MIX DESIGN TO ENGINEER FOR APPROVAL PRIOR TO PAVING, SEE SECTION 401 OF THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS,		
(4)	THE GRADE OF ASPHALT CEMENT SHALL BE PG 64-28.	(2)	THE
			THE

#### JRAL STEEL NOTES

TRUCTURAL STEEL REPAIRS ARE REQUIRED.

- TWO EXISTING EXTERIOR BEAMS SHALL BE PAINTED WITHIN THE LIMITS SHOWN ON PLANS.
- CONTRACTOR IS ADVISED THAT THE EXISTING PAINT SYSTEM ON THE EXISTING BRIDGE BE LEAD-BEARING PAINT AND CONTAIN HAZARDOUS CONCENTRATIONS OF LEAD.
- CONTRACTOR SHALL IMPLEMENT SPECIAL CONTROLS FOR THE PROTECTION OF CONTRACTOR ERS, THE PUBLIC AND THE ENVIRONMENT, AND FOR THE HANDLING AND DISPOSAL OF - •
- ECT AND PREPARE EXPOSED SURFACES OF EXTERIOR BEAMS PRIOR TO APPLICATION OF BY REMOVING ALL CONTAMINANTS INCLUDING; DUST, RUST, GREASE, OIL, MILDEW, PAINT, LOOSE RUST, OR ANY OTHER SURFACE CONTAMINANT WHICH MAY AFFECT SION.
- SYSTEM SHALL INCLUDE AN ACRYLIC RUST INHIBITING PRIMER, LEAD PSULATING/SEALING COMPOUND AND A TOP COAT FINAL COLOR, APPLICATION OF PRIMER COMPOUND SHALL BE PER MANUFACTURER'S RECOMMENDATION. THE OWNER SHALL SELECT TOP COAT FINAL COLOR.
- NING AND PAINTING EXISTING STRUCTURAL STEEL SHALL BE PAID FOR UNDER 556.101, PAINTING EXISTING STRUCTURAL STEEL.
- EIGHT EXISTING BRIDGE RAIL POSTS (FOUR EACH SIDE OF BRIDGE) AND POST BRACING BE PAINTED ON ALL EXPOSED SURFACES WITH THE TOP COAT FINAL COLOR.

## JCTURE REHABILITATION NOTES

FING ABUTMENT CONCRETE CAPS SHALL BE INSPECTED FOR DETERIORATED CONCRETE JOINTLY HE RESIDENT ENGINEER AND CONTRACTOR. ALL DETERIORATED CONCRETE SHALL BE REMOVED SOUND CONCRETE. SAWCUT THE CONCRETE 1" DEEP, UNLESS NOTED OTHERWISE, ON ALL SED CONCRETE SURFACES TO PROVIDE CLEAN REMOVAL LINES, COST OF INSPECTION, VAL, AND CLEANING SHALL BE PAID FOR UNDER ITEM 512.99, CONCRETE REPAIR.

RETE SHALL BE REMOVED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCING . AND CONCRETE TO REMAIN, EXISTING REINFORCING STEEL OR CONCRETE DAMAGED BY THE RACTOR SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE RESIDENT ENGINEER AT THE RACTOR'S EXPENSE, REINFORCING STEEL TO BE RETAINED SHALL BE WIRE BRUSHED CLEAN OF FOREIGN MATERIAL. ALL COSTS SHALL BE INCLUDED IN ITEM 512.99, CONCRETE REPAIR.

OF CHIPPING HAMMERS HEAVIER THAN NOMINAL 15 POUND CLASS ARE NOT PERMITTED.

R TO PLACING NEW CONCRETE, THE REMOVAL SURFACES OF THE EXISTING CONCRETE SHALL AST CLEANED AND PREPARED TO A SATURATED SURFACE-DRY CONDITION, ALL COSTS SHALL INCLUDED IN ITEM 512.99, CONCRETE REPAIR.

IR MATERIAL USED TO RECONSTRUCT THE SOUTH ABUTMENT CONCRETE CAP, AS SHOWN ON PLANS, AND PLACED IN DETERIORATED AREAS SHALL BE PAID FOR UNDER ITEM 512.99, RETE REPAIR.

S DRILLED IN EXISTING CONCRETE SHALL BE DRILLED  $\frac{1}{2}$ " LARGER THAN THE BAR DIAMETER GROUTED WITH AN APPROVED HIGH STRENGTH, NON-SHRINK GROUT LISTED UNDER SECTION OF THE NHDOT QUALIFIED PRODUCTS LIST. REINFORCING STEEL SHALL HAVE A MINIMUM DMENT LENGTH OF 1'-O" UNLESS OTHERWISE NOTED. ALL COSTS FOR DRILLING AND FING SHALL BE SUBSIDIARY TO ITEM 512.99, UNLESS OTHERWISE NOTED.

NEW REINFORCING STEEL SHALL HAVE A 2<sup>1</sup>/2" MINIMUM CLEAR COVER.

NEW REINFORCING STEEL ON THIS PROJECT SHALL BE EPOXY COATED.

FORCING STEEL SHALL BE PAID UNDER ITEM 512.99, CONCRETE REPAIR.

#### <u>COORDINATION</u>

HEAD UTILITIES ARE PRESENT WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL BE IAR AND TAKE NECESSARY PRECAUTIONS WITH THESE UTILITIES DURING CONSTRUCTION. RACTOR SHALL COORDINATE TEMPORARY RELOCATIONS, SHIELDING NECESSARY FOR EQUIPMENT IZATION AND TEMPORARY DISCONNECTION OF POWER WITH THE UTILITY OWNERS IF IRED. ALL COST FOR THIS COORDINATION SHALL BE INCLUDED IN ITEM 692, IZATION, ALL COSTS ASSOCIATED WITH MISCELLANEOUS TREE TRIMMING & CLEARING FOR ORARY UTILITY RELOCATIONS SHALL BE INCLUDED IN ITEM 692, MOBILIZATION

OVERHEAD UTILITY OWNER INFORMATION: EVERSOURCE ENERGY PHONE: 1-800-362-7764

> FAIRPOINT COMMUNICATIONS PHONE: (866) 984-3001

COMCAST PHONE: (800) 266-2278

CONTRACTOR SHALL COORDINATE THE LOCATION AND SCHEDULE FOR TEMPORARY RELOCATION OF OVERHEAD UTILITY, IF REQUIRED, WITH THE ABOVE UTILITY COMPANIES.

## ROADWAY DESIGN NOTES

30 MPH (1) DESIGN SPEED:

(2) THE DESIGN SPEED IS THE POSTED SPEED. ALL ATTEMPTS WERE MADE TO MEET AASHTO GUIDELINES FOR 30 MPH. HOWEVER DUE TO THE TYPE OF PROJECT, BRIDGE MAINTANENCE, MANY ROADWAY DESIGN ELEMENTS DO NOT MEET THE GUIDELINE.

		Qua	ntity
ITEWINO.	TIEW DESCRIPTION	Unit	Amount
202.7	REMOVAL OF GUARDRAIL	LF	615
203.1	COMMON EXCAVATION	CY	200
203.6	EMBANKMENT-IN-PLACE (F)	CY	50
214	FINE GRADING	U	1
304.31	CRUSHED GRAVEL FOR SHIMMING	CY	55
304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	60
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	TON	170
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	10
403.6	PAVEMENT JOINT ADHESIVE	LF	750
417	COLD PLANING BITUMINOUS SURFACES	SY	125
512.99	CONCRETE REPAIR	U	1
538.5	BARRIER MEMBRANE, HEAT WELDED (F)	SY	55
550.1	STRUCTURAL STEEL (F)	LB	600
556.101	PAINTING EXISTING STRUCTURAL STEEL	U	1
571.1	CHINKING STONE MASONRY	U	1
585.2	STONE FILL, CLASS B	CY	25
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	40
606.5266	TIMBER APPROACH RAIL (2-RAIL)	LF	606
615.03	TRAFFIC SIGN TYPE C (F)	SF	17
619.1	MAINTENANCE OF TRAFFIC	U	1
621.31	SINGLE DELINEATOR WITH POST	EA	2
621.32	DOUBLE DELINEATOR WITH POST	EA	2
628.2	SAWED BITUMINOUS PAVEMENT	LF	85
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	1600
646.51	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM	SY	180
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	1100
645.531	SILT FENCE	LF	1100
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	8
692	MOBILIZATION	U	1
699	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	1
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	1

## SUMMARY OF QUANTITIES





#### GENERAL NOTES:

1. THE REMOVAL OF EXISTING PAVEMENT FROM STATION 101+75 TO 105+25 WILL BE PAID AS ITEM 203.1 - COMMON EXCAVATION.

- 2. MATCH EXISTING ELEVATIONS AT CONSTRUCTION B AS CLOSELY AS POSSIBLE WHILE INTRODUCING A NORMAL CROWN (2.0% CROSS SLOPES) SECTION, UNLESS NOTED ON THE PLANS (GRADING TABLE ON ROADWAY PLAN). ITEM 214. - FINE GRADING IS PAID FOR SHAPING ROADWAY SELECT MATERIALS AFTER PAVEMENT REMOVAL. ITEM 304.31 - CRUSHED GRAVEL FOR SHIMMING, SHALL BE USED AS APPROVED BY THE ENGINEER TO OBTAIN NORMAL CROWN.
- 3. ITEM 403.6 PAVEMENT JOINT ADHESIVE SHALL BE APPLIED TO ALL LONGITUDINAL JOINTS ON ALL PAVEMENT COURSES.

DURHAM POINT ROAD (STA. 101+75 TO STA. 105+25) NOT TO SCALE



PAVEMENT MATCH DETAIL

NOT TO SCALE



STONE	SL	OPE	DET
102+' 103+	70 T 60 T	0 103 0 104	+00 RT. +00 LT.
	IUN	IU SCALE	•

STAT	TION
LEFT	RIGHT
101+50 TO 101+75	101+50 TO 101+75
101+75 TO 102+00	101+75 TO 102+00
102+00 TO 102+95	102+00 TO 103+00
102+95 TO 103+02	103+00 TO 103+11
103+02 TO 103+53	103+11 TO 103+61
103+53 TO 103+60	103+61 TO 103+70
103+60 TO 105+00	103+70 TO 105+00
105+00 TO 105+25	105+00 TO 105+25
105+25 TO 105+50	105+25 TO 105+50
	STAT LEFT 101+50 T0 101+75 101+75 T0 102+00 102+00 T0 102+95 102+95 T0 103+02 103+02 T0 103+53 103+53 T0 103+60 103+60 T0 105+00 105+00 T0 105+25 105+25 T0 105+50

ITEM 606.5266 - TIMBER APPROACH RAIL (2-RAIL) (F) ITEM 641. - LOAM AND

ITEM 646.31 - TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS SEE STONE SLOPE DETAIL

FOR STEEPER THAN 2:1

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CH 2016	3Y: JFMS	۲: Jcc	SBH	AS SHOWN
MAR	DESIGN B	DRAWN B	СНКD. ВҮ	SCALE:
		Associates	150 Dow Street, Manchester, NF Tel (603) 669-5555 · Fax (603)	www.hoyletanner.coi
TOWN OF DURHAM	DURHAM, NEW HAMPSHIRE	DURHAM POINT ROAD OVER CROMMET CREEK	ROADWAY TYPICAL SECTION AND DETAILS	
PROJE FILE N MODE	ECT NO. AME: L NAME	902	902705 2705TYI 2705TY	P00 P01
		ICCT		
	SF	3	NO.	

<u>STATION</u> WEARING BINDER (A)B 101+50 101+75 105+50 105+25

ORIGINAL GROUND

<u>AIL</u>



		VERTIC	AL CONTROL 1	ABLE
NUMBER	ELEVATION	STATION	OFFSET	DESCRIPTION
TBM#1	15.96	101+90.52	LT. 14.86'	SSE CAP IN POLE AT GRADE
TBM#2	10.57	103+22.87	RT. 11.74'	CHISELED SQUARE WITH "X"
TBM#3	15.18	104+76.47	RT. 23.79'	TOP CENTER BOUND

			HORIZONTAL	. CONTROL TABLE	
NUMBER	NORTHING	EASTING	ELEVATION	STATION & OFFSET*	DESCRIPTION
CP#1	218578.6248	1193320.8990	43.08	N/A	HUB & TACK SET/NOT SHOWN
CP#2	218794.5626	1193354.0782	17.67	101+58.5, RT. 16.1'	HUB & TACK SET
CP#4	219134.1688	1193503.5409	23.34	105+27.3, RT. 16.2'	HUB & TACK SET
CP#5	219295.3895	1193527.1902	46.52	N/A	HUB & TACK SET/NOT SHOWN
CP#50	218937.4318	1193399.3942	6.25	103+02.0, LT. 23.3'	GPS PNT DRILL HOLE SET
CP#51	218950.5830	1193485.0280	6.71	103+54.7, RT. 42.7'	GPS PNT DRILL HOLE SET
*FOR	INFORMATION	AL PURPOSES O	NLY, TO LOCAT	E POINT	

MUTC DESI

W

W1

		SIGN SUM	1MARY –	ITE	M 6 ′	15.03	3	
CD SIGN GNATION	LOCATION	DESCRIPTION	SIZE	SQ. FT.	NO. REQ.	TOTAL AREA	POST	COLOR
1–3R	101+50, RT. 13.0′ 105+05, LT. 13.0′		30″ X 30″	6.25	2	12.5	STEEL U-CHANNEL	B/Y
3–1P	NZA	<b>20</b> M. P. H.	18″X 18″	2.25	2	4.5	MOUNT ON SAME POST AS W1-3R	B∕Y

FFSET (LT)	ELEVATION	OFFSET	ELEVATION	OFFSET (RT)	ELEVATION
10.5	10.25	0	10.46	10.5	10.25
10.5	9.84	0	10.05	10.5	9.84
10.7	9.90	0	10.11	10.5	9.90
10.5	10.04	0	10.25	10.4	10.04
10.5	10.54	0	10.75	10.5	10.54
10.5	11.74	0	11.95	10.5	11.74

THE TWO EXISTING "GROSS WEIGHT LIMIT 15 TONS OR 80% OF LEGAL LOADS" SIGNS ARE TO BE REMOVED AND RESET, SUBSIDIARY TO ITEM 692.

REMOVE EXISTING GUARDRAIL AND BRIDGE RAIL FROM STATION 102+20 TO 105+20 RT. AND STATION 102+25 TO 105+40 LT. , PAID AS ITEM 202.7 -REMOVAL OF GUARDRAIL.

REMOVAL OF EXISTING DELINEATORS SHALL BE SUBSIDIARY TO ITEM 202.7 - GUARDRAIL REMOVAL AND SHALL BE SALVAGED TO THE TOWN.

INSTALL DOUBLE SOLID LINE (YELLOW) ALONG ALIGNMENT FROM STATION 101+50 TO 105+50, PAID AS ITEM 632.0104 - RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE.

SEE RAIL LAYOUT PLAN FOR GUARDRAIL LAYOUT INFORMATION.

STATION 102+25 LT., POTENTIAL CONFLICT BETWEEN GURADRAIL POST AND DITCH FLOW LINE. REGRADE DITCH TO AVOID GUARDRAIL POST BEING PLACED IN MIDDLE OF FLOWLINE, PAID FOR SUBSIDIARY TO 606.5266.

PAVEMENT LAYOUT INFORMATION IS ON THE ROADWAY TYPICAL SECTION AND DETAILS SHEET.

TOWN OF DURHAM DURHAM, NEW HAMPSHIREMARCH 2016DURHAM, NEW HAMPSHIREPOOLET CREEKDURHAM NEW HAMPSHIREPOOLET CREEKDURHAM POINT ROAD OVER CROMMET CREEKPOOLET CREEKDURHAM POINT ROAD OVER CROMMET CREEK150 Dow Street, Manchester, NH 03101-1227Tel (603) 669-5555 · Fax (603) 669-4168 www.hoyletanner.comCHKD. BY:SCALE:SCALE:ASSOCIATEDSCALE:ARCH 2016SCALE:ANDWAY PLANSCALE:ANDWAY PLANSCALE:ANDWAY PLANSCALE:ANDWAY PLANSCALE:AND ANDSCALE:AND ANDANDAND ANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDANDAND	REV DESCRIPTION DRW CHKD DATE			This document is prepared as an instrument of service and shall remain the property of Hoyle, Tanner. It may not be used, reproduced, disseminated	or transferred in any manner, including electronically, for any other purpose than this project, without the written permission of Hoyle, Tanner.
TOWN OF DURHAM DURHAM, NEW HAMPSHIRE DURHAM, NEW HAMPSHIRE DURHAM NEW HAMPSHIRE DURHAM POINT ROAD OVER CROMMET CREEK ROADWAY PLAN ROADWAY PLAN ROADW	RCH 2016	BY: JFMS	BY: JCC	SY: SBH	AS SHOWN
TOWN OF DURHAM DURHAM, NEW HAMPSHIRE DURHAM POINT ROAD OVER CROMMET CREEK ROADWAY PLAN			dle	hester, Fax <i>(</i> F	anner o
				150 Dow Street, Manchester, Tel (603) 660-5555 · Fax (6	www.hoyletanner.c



	LEG	<u>end</u>	
 	PAVED ROAD UNPAVED ROAD	<del>*</del> **	MOUNTED MOUNTED
•	TEMPORARY CONSTRUCTION SIGN	B W	BLACK WHITE
	TYPE III BARRICADE	0	ORANGE
	APPROX. PROJECT LOCATION DETOUR ROUTE		

ON TYPE III BARRICADE ON POST WITH M4-8



## TRAFFIC CONTROL NOTES

- OPERATION IN CONFORMANCE WITH THE MUTCD.
- PROGRESS OF THE CONSTRUCTION AS NEEDED.
- LONGER APPLY TO THE EXISTING CONDITIONS.

- WARNING DEVICES USED ON THE PROJECT MEET THE SPECIFICATIONS.
- (10) THE USE OF CONSTRUCTION SIGNS AND WARNING DEVICES NOT SHOWN ON THESE STANDARDS OR MUTCD, UNLESS APPROVED BY THE ENGINEER, SHALL BE PROHIBITED.
- (11) ALL COSTS FOR TRAFFIC CONTROL DEVICES, INCLUDING PLACEMENT, RELOCATION AND REMOVAL OF SIGNS SHALL BE INCLUDED IN ITEM 619.1, MAINTENANCE OF TRAFFIC.
- (12) THE CONTRACTOR SHALL MAINTAIN SAFE, CONTINUOUS ACCESS TO ALL PROPERTIES ADJACENT TO THE PROJECT LOCATION.

GNS AND	WAR	NING	DEV	ICES	
SIZE W×H	SQ. FT.	NO REQ.	TOTAL AREA	POST	COLOR
24″X 12″	2.0	8	16	1 POST PER SIGN	B/O
21″ x 15″	2.19	2	4.38	**	B∕W
21″ x 15″	2.19	2	4.38	**	B∕W
21″ x 15″	2.19	4	8.75	**	B∕W
48″ × 30″	10	2	20	*	B∕W
60″ X 30″	12.5	2	25	2 POST PER SIGN	B∕W
30″ × 30″	6.25	2	12.5	1 POST PER SIGN	B/O
30″ X 30″	6.25	2	12.5	1 POST PER SIGN	B∕O

(1) TRAFFIC CONTROL DEVICES SHALL CONFORM TO SECTION 619 OF THE NHDOT STANDARD SPECIFICATIONS, AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND ADOPTED BY THE COMMISSIONER OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION. SIGNS SHALL ALSO CONFORM TO USDOT STANDARD HIGHWAY SIGNS AND NHDOT CONSTRUCTION SIGN STANDARDS.

(2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, ERECTING AND MAINTAINING PERMANENT CONSTRUCTION SIGNS AND WARNING DEVICES AS LISTED ON THE PLANS, AND SHALL ALSO BE RESPONSIBLE FOR SUPPLYING, ERECTING AND MAINTAINING ALL OPERATIONAL SIGNS AND WARNING DEVICES FOR HIS PLANNED METHODS OF

(3) ALL SIGNS AND WARNING DEVICES SHALL BE MOVED, SUPPLEMENTED, CHANGED, OR REMOVED DURING THE

(4) TRAFFIC CONTROL DEVICES SHALL BE REMOVED, AND SIGNS SHALL BE COVERED OR REMOVED, WHEN THEY NO

(5) PLYWOOD SUBSTRATE FOR CONSTRUCTION SIGNS SHALL CONFORM TO SECTION 619, AND FLAT ALUMINUM SHEETS SHALL CONFORM TO SECTION 615 OF THE NHDOT STANDARD SPECIFICATIONS.

(6) DETOURS INVOLVING THE ROUTING OF TRAFFIC OVER ROADS OUTSIDE THE LIMITS OF THE PROJECT SHALL BE MARKED AND MAINTAINED BY THE CONTRACTOR (UNLESS OTHERWISE NOTED). THE CONTRACTOR SHALL BE REQUIRED TO ERECT AND MAINTAIN ANY REQUIRED SIGNS AND WARNING DEVICES AT THE BEGINNING AND END OF THE WORK AND AT INTERSECTING ROADWAYS. THE LOCATION AND POSITION OF THESE SIGNS AND WARNING DEVICES SHALL BE AS APPROVED BY THE ENGINEER. THE CONTRACTOR MAY ALSO BE REQUIRED TO UNCOVER, COVER AND OTHERWISE MAINTAIN DETOUR SIGNS SUPPLIED BY OTHERS.

(7) WORK ON THE PROJECT, OR ANY SEPARATE ACTIVITY THEREIN, SHALL NOT START UNTIL ALL THE REQUIRED SIGNS AND WARNING DEVICES ARE INSTALLED AND APPROVED BY THE ENGINEER.

(8) SIGN LOCATIONS SHOWN ON THESE STANDARDS ARE RECOMMENDED AND MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER, TYPICAL LAYOUTS SHOWN ARE NOT TO SCALE.

(9) THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE ENGINEER WITH CERTIFICATION THAT ALL THE SIGNS AND

(13) THE CONTRACTOR SHALL COORDINATE THEIR EFFORTS WITH ANY AND ALL ADJACENT CONSTRUCTION PROJECTS.

TOWN OF DURHAMTOWN OF DURHAMDURHAM, NEW HAMPSHIREMACH 2016DURHAM, NEW HAMPSHIREMACH 2016RHAM POINT ROAD OVER CROMMET CREEKPOOCIATES, INC.To DETOUR PLAN150 Dow Street, Manchester, NH 03101-1227Tel (603) 669-5555 · Fax (603) 669-4168CHKD. BY:DETOUR PLANSCALE: AS SHOWN	REV. DESCRIPTION DRW CHKD DATE			This document is prepared as an instrument of service and shall remain the property of Hoyle, Tanner. It may not be used, reproduced, disseminated	or transferred in any manner, including electronically, for any other purpose than this project, without the written permission of Hoyle, Tanner.
TOWN OF DURHAM DURHAM, NEW HAMPSHIRE RHAM POINT ROAD OVER CROMMET CREEK DETOUR PLAN DETOUR	MARCH 2016	GN BY: JFMS	MN BY: JCC	D. BY: SBH	E: AS SHOWN
TOWN OF DURHAM DURHAM, NEW HAMPSHIRE RHAM POINT ROAD OVER CROMMET CREE DETOUR PLAN	nne alvu		Associates, III	<ul> <li>Dow Street, Manchester, NH 03101- el (603) 669-5555 · Fax (603) 669-41</li> </ul>	www.hoyletanner.com
	Hove Tann			150 Dow Street, Manchester, NH 03101- Tel (603) 660-5555 · Fax (603) 669-41	www.hoyletanner.com







<u>Notes</u>

- EXISTING STONES.



<u>Notes</u>

- EQUAL TO ANY EXPOSED REINFORCING.

- MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS:

_	SIKA CO	RPORATION	l	PRODUCT:	S
_	FOSROC,	INC		PRODUCT:	R
—	MASTER	BUILDING	TECHNOLOGIES	PRODUCT:	М





SECTION C-C SCALE: 1'' = 1' - 0''

## <u>Notes</u>

- AND SHALL BE DESIGNED FOR 16,000 POUNDS.
- PERMITTED. MINIMUM REPAIR AREA SHALL BE 1'X1'.
- CUTTING REPAIR AREA.
- 4. USE OF CHIPPING HAMMERS HEAVIER THAN NORMAL 15 POUND ARE NOT PERMITTED.
- CHIPPING HAMMERS TO ASSESS REPAIR AREA.
- MAPEFER BY MAPEI OR APPROVED EQUAL TO ANY EXPOSED REINFORCING.
- 7. DRILL AND GROUT #4 BARS, AS SHOWN IN DETAIL A AND DETAIL B ON THIS SHEET.
- •
- 5,000 PSI IN 28 DAYS.
  - SIKA CORPORATION FOSROC, INC.
  - MASTER BUILDING TECHNOLOGIES
- TO ITEM 520.01.
- CONCRETE BACKWALL. RECESS CLOSED CELL JOINT 1/2" INTO EXISTING GAP.
- CONCRETE REPAIR.

1. TEMPORARY SHORING IS REQUIRED TO SUPPORT THE WEST EXTERIOR GIRDER DURING CONCRETE REPAIRS TO THE SOUTH ABUTMENT. THE CONTRACTOR SHALL SUBMIT PLANS AND CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONCRETE REPAIRS TO THE SOUTH ABUTMENT. THE TEMPORARY SHORING SHALL BE INSTALLED WITHIN 5 FEET PRIOR TO ANY CONCRETE REMOVAL OPERATIONS

2. PREPARE SPALLED AREA BY REMOVING ALL DETERIORATED CONCRETE TO A MINIMUM DEPTH OF 1" SQUARE, UNLESS OTHERWISE NOTED, BY CUTTING REPAIR AREA. FEATHERED REMOVAL EDGES WILL NOT BE

3. IF REINFORCING STEEL IS EXPOSED, REMOVE ALL DETERIORATED CONCRETE TO A MINIMUM DEPTH OF  $\frac{3}{4}$ " BEHIND THE REAR FACE OF THE FIRST MAT OF REINFORCING STEEL AND TO SOUND CONCRETE BY SQUARE

5. CONTRACTOR SHALL NOTIFY RESIDENT ENGINEER AFTER REMOVAL OF DETERIORATED CONCRETE WITH

6. AFTER CONCRETE REMOVAL, THE REPAIR SURFACE AND EXISTING REINFORCING BARS SHALL BE THOROUGHLY CLEANED OF INJURIOUS RUST, CONCRETE, DIRT, GREASE, OR ANY OTHER BOND-INHIBITING MATERIALS. APPLY ONE COAT OF CONPROCO CORPORATION ECB (ELECTROCHEMICAL BARRIER), FERROSEAL BY ISOMAT,

8. PATCH REPAIR AREA WITH AN APPROVED REPAIR MATERIAL. THE CONCRETE REPAIR MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.

9. REPAIR •MATERIAL FOR THE CONCRETE BEARING SEAT (DETAIL A) SHALL BE A FAST-SETTING CEMENT REPAIR • MORTAR LISTED BELOW OR AN APPROVED EQUAL WITH A MINIMUM COMPRESSIVE STRENGTH OF

	PRODUCT:	SIKATOP	'123 F	PLUS
	PRODUCT:	RENDERB	BROC HE	32
S	PRODUCT:	MASTER	EMACO	T545

10. REPAIR MATERIAL FOR THE CONCRETE BACKWALL (DETAIL B) SHALL BE CONCRETE CLASS AA, CONFORMING

11. APPLY A PENETRATING, CORROSION-INHIBITING IMPREGNATION COATING, SIKA FERROGARD 903, CORTEC CORPORATION MCI-2020 V/O, GRACE CONSTRUCTION PRODUCTS POSTRITE OR APPROVED EQUAL FOR A DISTANCE OF 3' BEYOND THE EDGE OF THE CONCRETE REPAIR 7 DAYS AFTER APPLYING REPAIR MATERIAL.

12. CLEAN JOINT BETWEEN THE WEST CONCRETE BACKWALL AND SOUTHWEST MASONRY STONE WINGWALL WITH COMPRESSED AIR TO REMOVE ALL LOOSE MATERIAL TO A MINIMUM DEPTH OF 2", INSTALL CLOSED CELL JOINT SEAL, 1"X1", INTO EXISTING GAP FROM 6" ABOVE EXISTING GROUND TO THE BOTTOM OF THE

13. ALL COSTS FOR THE WORK DESCRIBED AND SHOWN ABOVE SHALL BE PAID UNDER ITEM 512.99,

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TOWN OF DURHAM	DURHAM, NEW HAMPSHIRE	DURHAM POINT ROAD OVER CROMMET CREEK	REPAIR DETAILS 2 OF 2	













3. ALL WORK ASSOCIATED WITH THE MODIFICATION OF THE TIMBER RAIL POST INSTALLATION SHALL BE SUBSIDIARY TO ITEM 606.5266.

TIMBER RAIL NOTES

- NUTS AND WASHERS, AS APPROPRIATE. – A307: RAIL BOLTS - ASTM F844: WASHERS – ASTM A563: NUTS
- CONFORMING TO AS72 GRADE 50.
- IN ITEM 606.5266).

- SPECIFICATIONS.
- STANDARD M4.
- NOTED/DETAILED.





![](_page_10_Figure_22.jpeg)

## MODIFIED TIMBER RAIL POST INSTALLATION SCALE: 1'' = 1' - 0''

1. THIS DETAIL IS TO BE USED WHERE AN IMPENETRABLE HOLE IS ENCOUNTERED WHILE PLACING GUARDRAIL

2. STONE REMOVAL MAYBE REQUIRED AND SHALL BE SUBSIDIARY TO ITEM 606.5266. REMOVE AS DIRECTED BY THE RESIDENT ENGINEER.

1. CONTRACTOR SHALL FIELD VERIFY SPACING OF EXISTING BRIDGE RAIL POSTS TO REMAIN AND LOCATION OF EXISTING BOLT HOLES IN THE POSTS PRIOR TO FABRICATION OF THE TIMBER RAILS. CONTRACTOR SHALL ALSO FIELD VERIFY EXISTING ANCHOR BOLT SPACING AT GRADE BEAMS PRIOR TO FABRICATION OF STEEL POSTS AND BASE PLATES.

2. MODIFY SPACER PLATES AND BACKER PLATES DETAILS AS SHOWN FOR EXISTING BOLT LOCATIONS ON EXISTING STEEL POSTS TO REMAIN.

3. ITEM 606.5266 SHALL INCLUDE SPACER PLATES, SPLICE PLATES, RAIL ASSEMBLY BOLTS, - ASTM A36: SPACER PLATES AND SPLICE PLATES

4. ITEM 550.1 SHALL INCLUDE GRADE BEAM STEEL RAIL POSTS AND BASE PLATES

5. ALL STEEL COMPONENTS SHALL HAVE TWO COATS OF AN APPROVED COAL TAR EPOXY COATING APPLIED. ACCEPTABLE PRODUCTS INCLUDING A-H COAL TAR EPOXY 210 BY ANTI-HYDRO COMPANY, BITUMASTIC 300-M BY CARBOLINE, DURAL 306 BY TAMMS INDUSTRIES OR OTHER EQUIVALENT APPROVED EQUAL COAL TAR EPOXY, ALL COSTS FOR THIS WORK IS INCLUDED IN ITEM 606.5266.

6. STRUCTURAL TIMBER POSTS SHALL BE 8"x10" (NOM,) SOUTHERN YELLOW PINE NO, 1 OR BETTER HAVING A MINIMUM ALLOWABLE BENDING STRESS OF 1350 PSI. (COST INCLUDED

7. STRUCTURAL TIMBER-RAILS SHALL BE 6"×8" (NOM,) SOUTHERN YELLOW PINE NO, 1 OR BETTER HAVING A MINIMUM ALLOWABLE BENDING STRESS OF 1350 PSI. RAIL SYSTEM WILL BE MEASURED AND PAID FOR BY THE LINEAR FOOT INSTALLED.

8. ALL TIMBER RAILS AND POSTS SHALL BE TREATED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATION SECTION 568 USING A PENTACHLOROPHENOL TYPE C PRESERVATIVE TREATMENT, PRESERVATIVE, PRESSURE TREATMENT PROCESSES, MATERIALS AND MINIMUM NET RETENTION OF PRESERVATIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 133. EXCESSIVE RESIDUAL PRESERVATIVE MATERIAL WILL BE REJECTED.

9. ALL WOOD CONSTRUCTION SHALL COMPLY WITH THE LATEST AASHTO SPECIFICATIONS, THE NATIONAL DESIGN SPECIFICATION (NDS) AND SUPPLEMENT FOR WOOD CONSTRUCTION

10. EACH PIECE OF WOOD OR TIMBER SHALL BE GRADED, BY A RECOGNIZED LUMBER GRADING AGENCY, A CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED FOR ALL WOOD,

11. ALL JOB SITE FABRICATION CUTS AND BORINGS OF WOOD TO BE TREATED SHALL HAVE TWO COATS OF COPPER NAPHTHENATE SOLUTION LIBERALLY APPLIED. THE FIELD TREATMENT APPLICATIONS OF PRESERVATIVE SPECIFIED SHALL BE IN ACCORDANCE WITH AWPA

12. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF TWO (2) POSTS, UNLESS OTHERWISE

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