

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF WEST RUTLAND
COUNTY OF RUTLAND

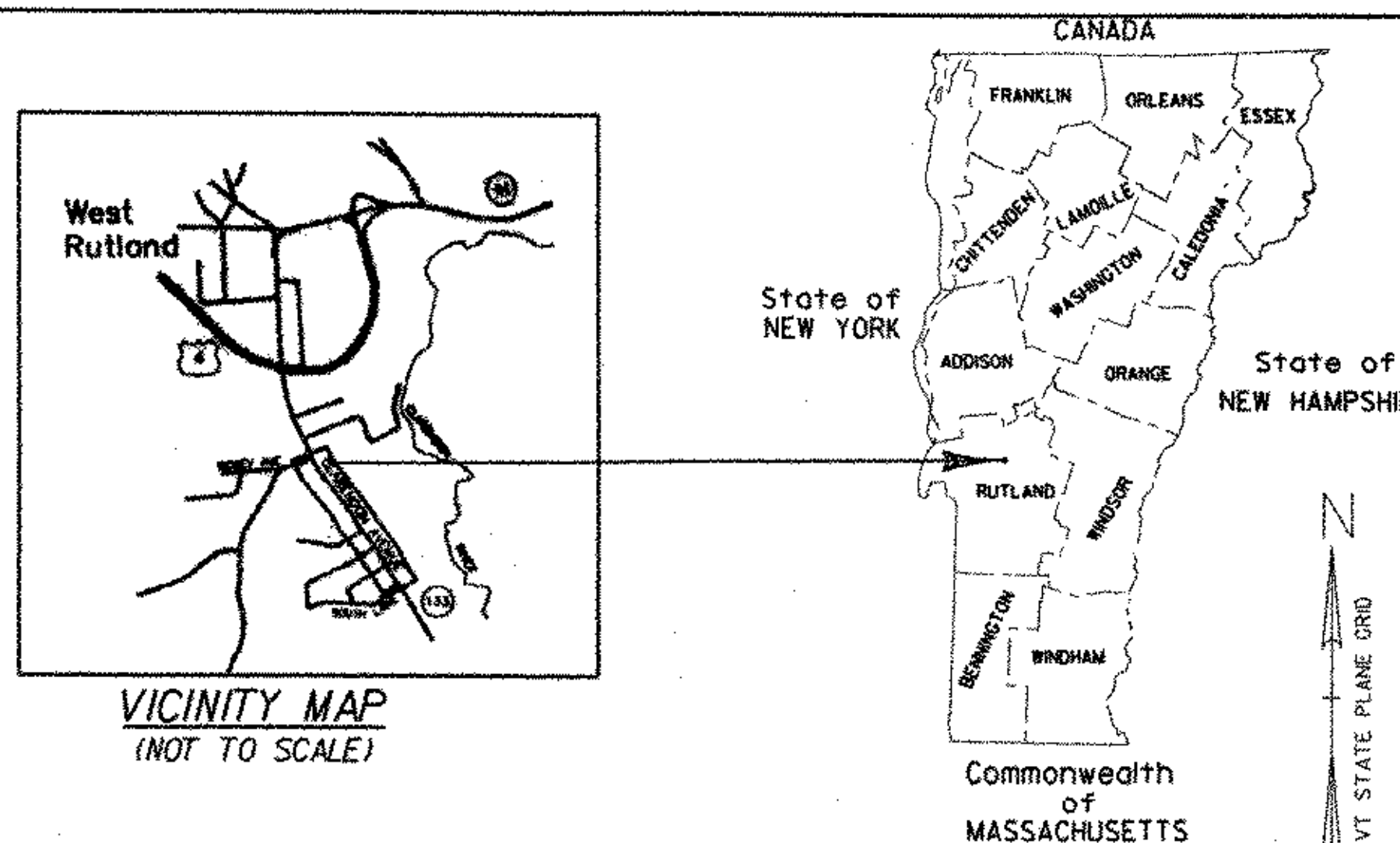
**ADAPTIVE REUSE OF HISTORIC TRUSS BRIDGE
ALONG SIDE CLARENDON AVENUE OVER CLARENDON BROOK
PROJECT ST WALK (11)**

PROJECT LOCATION: CLARENDON AVENUE
PEDESTRIAN BRIDGE OVER
CLARENDON BROOK

PROJECT DESCRIPTION: REHABILITATE AND ASSEMBLE HISTORIC TRUSS
ALONG WEST SIDE OF CLARENDON AVENUE
OVER CLARENDON BROOK.

LENGTH OF STRUCTURE: PEDESTRIAN BRIDGE 60'-4"

LENGTH OF PROJECT: 163'-2"

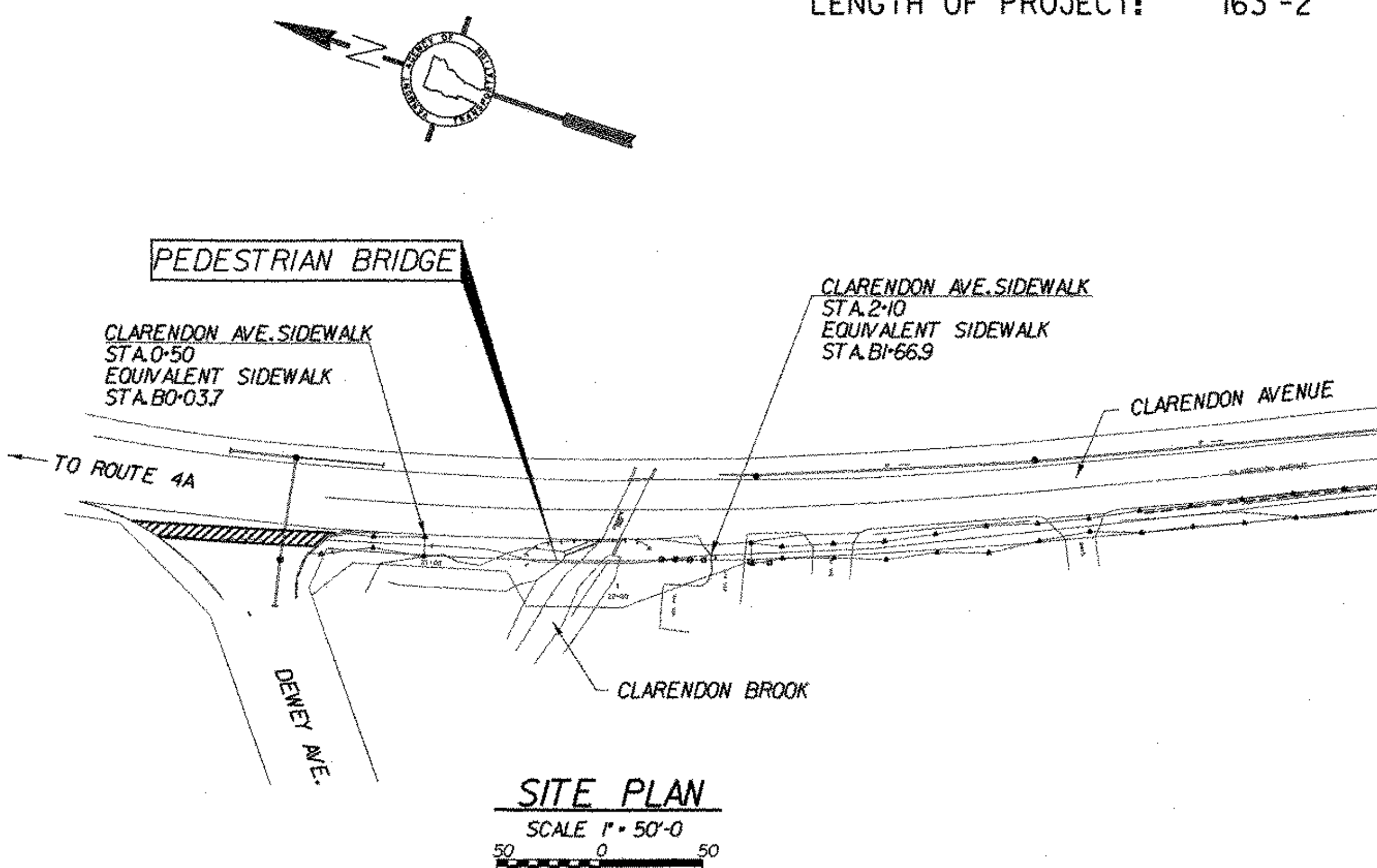


LIST OF BRIDGE SHEETS	
SHEET NUMBER	DESCRIPTION
BR100	PLAN AND ELEVATION
BR101	PRELIMINARY INFORMATION
BR102	QUANTITIES AND BAR LIST
BR103	GENERAL NOTES
BR104	DECK PLAN AND DETAILS
BR105	FRAMING PLAN AND DETAILS
BR106	STEEL REPAIR DETAILS
BR107	ABUTMENT 1 PLAN AND ELEVATION
BR108	ABUTMENT 2 PLAN AND ELEVATION
BR109	RAILING DETAILS
BR110	DRAINAGE AND TEMPORARY EROSION CONTROL

VAOT STANDARDS

T-1	TEMPORARY EROSION CONTROL PLANS	06-01-94
T-2	TEMPORARY EROSION CONTROL PLANS	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-06-97
E-100A	SIDE ROAD CONSTRUCTION APPROACH SIGNS	01-06-97
E-101	CONSTRUCTION SIGN DETAILS	03-10-97
E-102	CONSTRUCTION SIGN DETAILS	08-08-95
E-102A	CONSTRUCTION SIGN DETAILS	08-08-95
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	09-23-98
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08-08-95
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	08-08-95
E-107A	BREAKAWAY BARRICADE DETAILS	08-08-95
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	08-08-95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-18-95
E-120	STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY	08-08-95
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08-08-95
E-140	REGULATORY SIGN DETAILS	08-30-96
E-160	FLANGED CHANNEL STEEL SIGN POST	05-20-99

RECORD PLANS	
CONTRACTOR:	AUSTIN CONST. - CONCORD, VT.
RESIDENT ENGINEER:	TONY COARSE
CONSTRUCTION BEGAN:	APRIL 20, 2003
CONSTRUCTION COMPLETE:	MAY 11, 2004
RECORD PLANS BY:	T. COARSE & N. GARBACIK
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY	<i>[Signature]</i> RESIDENT ENGINEER
DATE	JAN 5, 2005
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.	



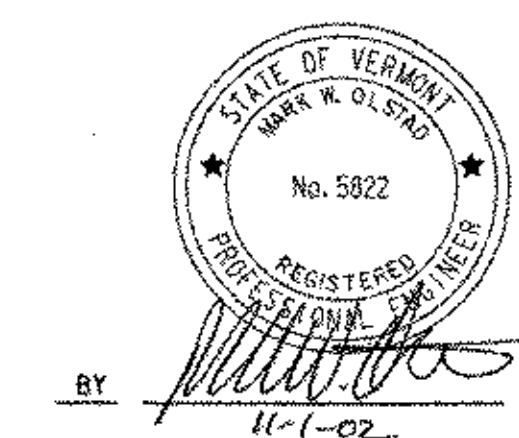
SITE PLAN
SCALE 1" = 50'-0"
50 0 50

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---o---o---
POINT OF ACCESS	X
FENCE LINE	---x---x---
STONE WALL	---o---o---
TRAVELED WAY	---o---o---
GUARD RAIL	---o---o---
RAILROAD	---o---o---
SURVEY LINE	---o---o---
CULVERT	---o---o---
POWER POLE	---o---o---
TELEPHONE POLE	---o---o---
TREES	---o---o---
CONTROL OF ACCESS	---o---o---
PROPERTY LINE	---o---o---
R.O.W. TAKING LINE	---o---o---
SLOPE RIGHTS	---o---o---
TOP OF CUT	---o---o---
TOE OF SLOPE	---o---o---

DATUM	ASSUMED
VERTICAL	N/A
HORIZONTAL	N/A

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER.

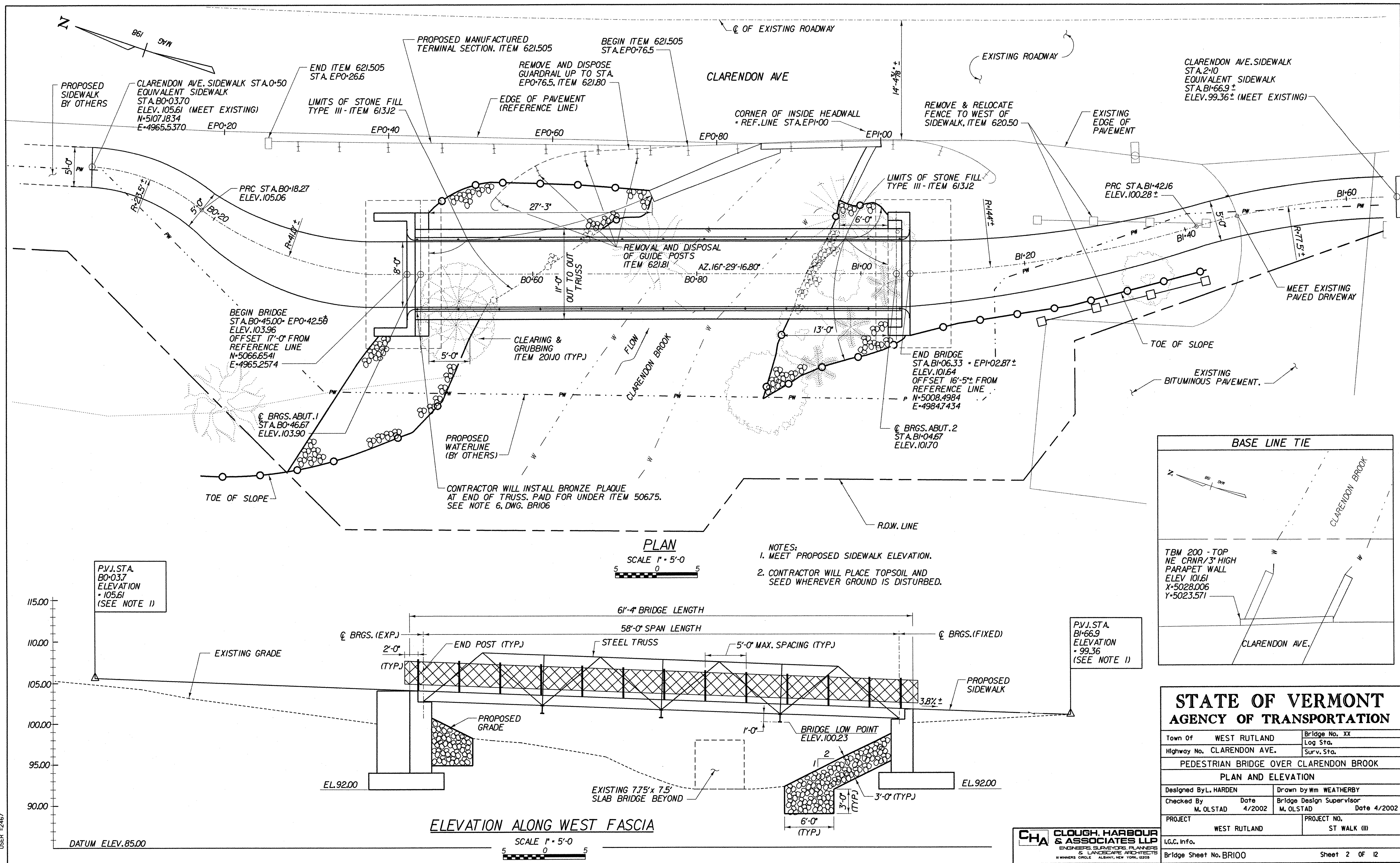
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

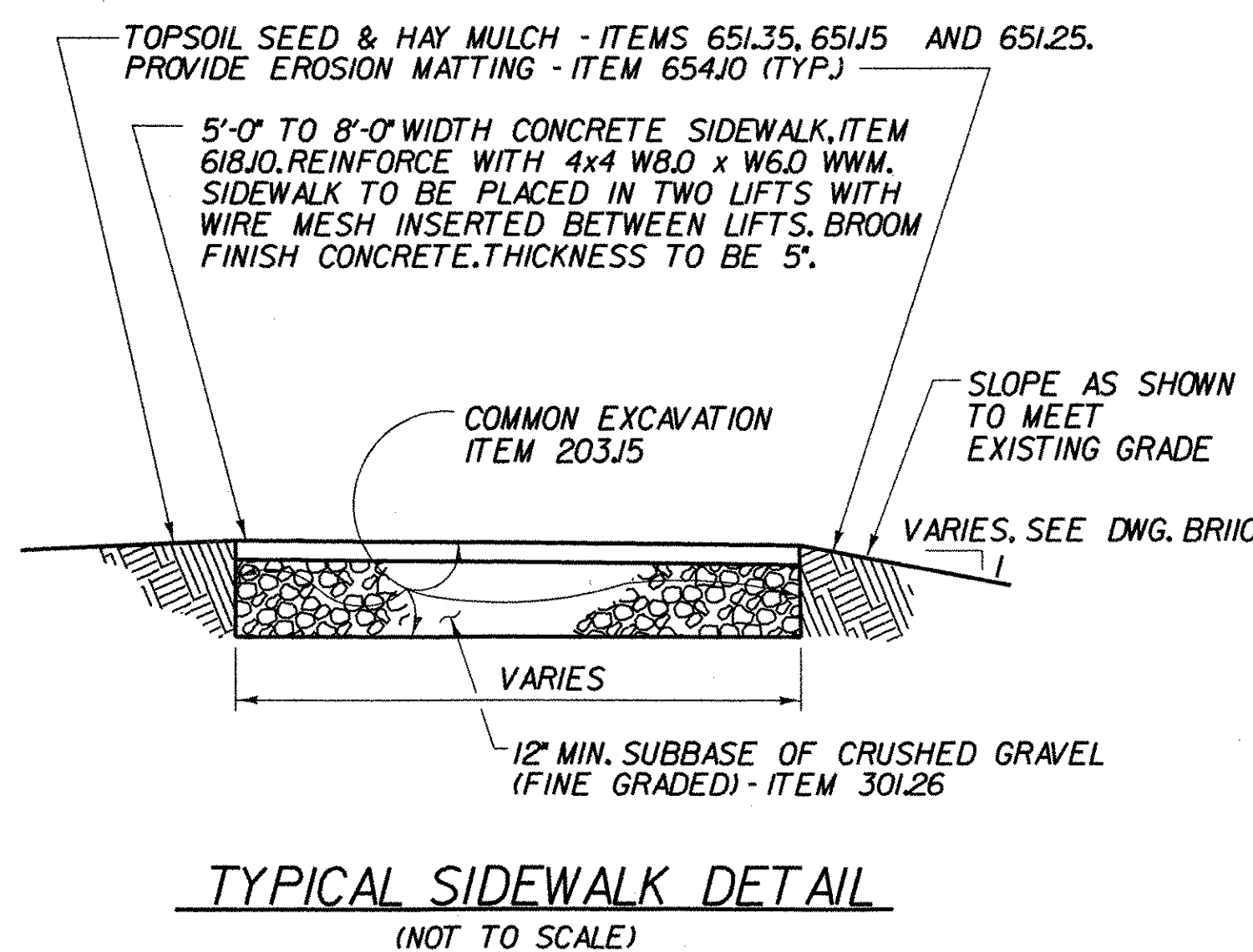
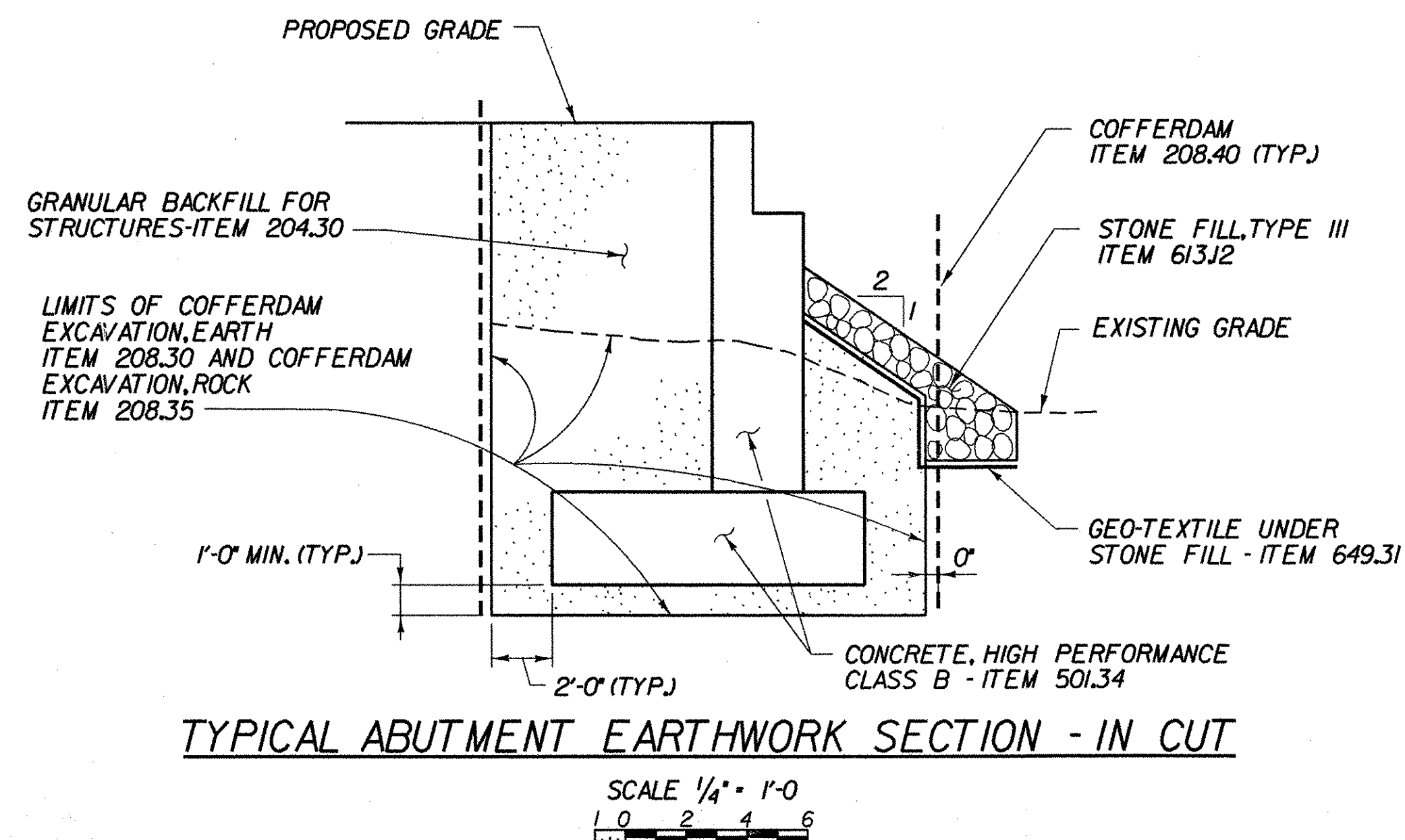
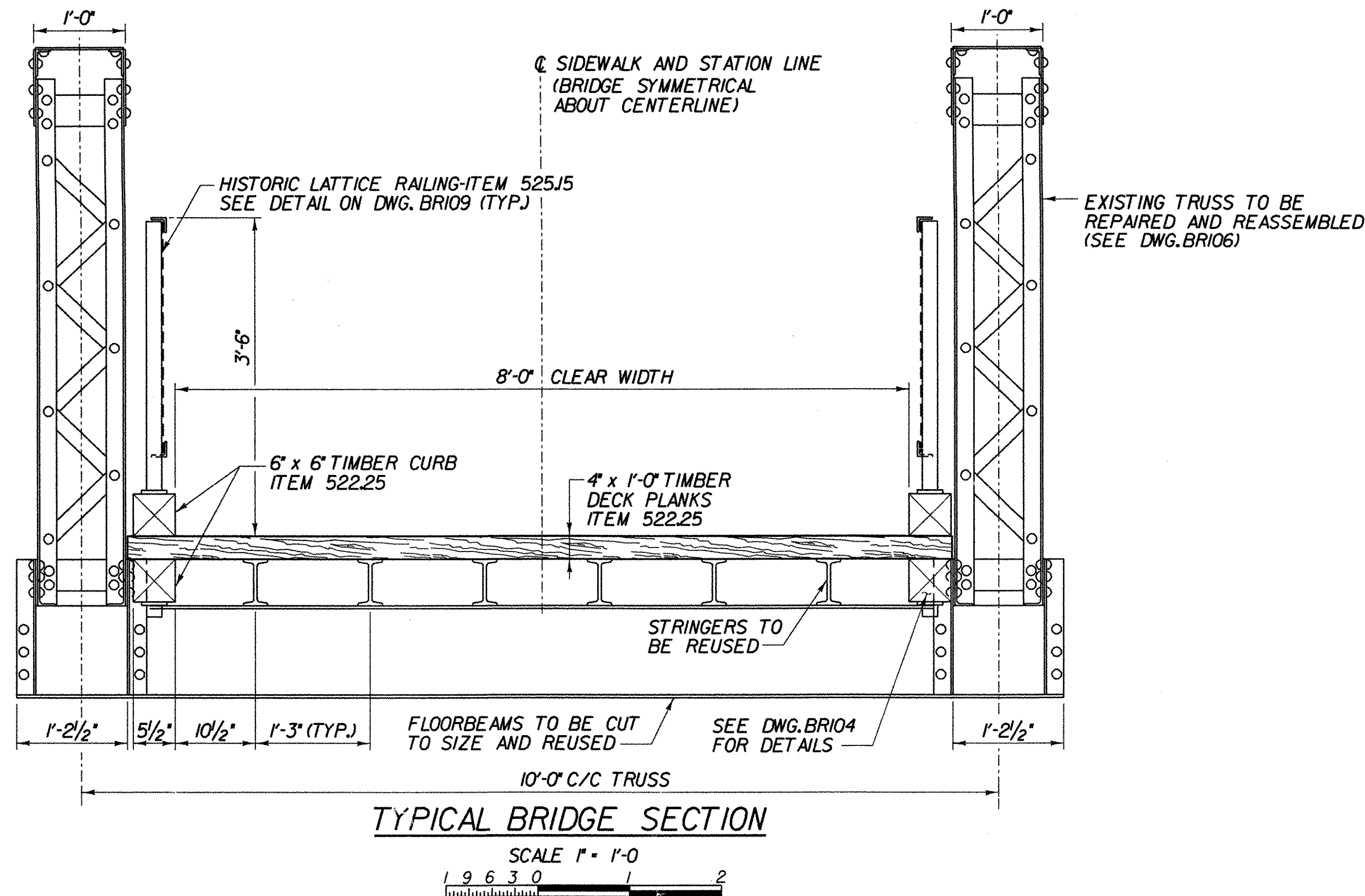


CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
11 HARRISON CIRCLE ALBANY, N.Y. 12205

APPROVED	<i>[Signature]</i> DATE 1/20/02
DIRECTOR OF PROJECT DEVELOPMENT	
PROJECT WEST RUTLAND ST WALK (11)	
SHEET 1 OF 12 SHEETS	

FILE NAME: \\s10224\N\STWALK\11\cover.dwg
DATE/TIME: 1/10/02
USER: 2467





FINAL HYDRAULICS REPORT

HYDROLOGIC DATA

DRAINAGE AREA: SEE NOTE
CHARACTER OF TERRAIN:
CHARACTER & TYPE OF STREAM:
NATURE OF STREAMBED:
DATE OF FLOOD OF RECORD:
WATER SURFACE ELEV.: ESTIMATED DISCHARGE:
NATURAL STREAM VELOCITY @ FLOOD OF RECORD
ICE CONDITIONS: DEBRIS:
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY?
IS ORDINARY RISE RAPID?
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?
IF YES, DESCRIBE.

WATERSHED STORAGE: HEADWATERS: UNIFORM THROUGHOUT WATERSHED
IMMEDIATELY ABOVE SITE

EXISTING STRUCTURE

STRUCTURE TYPE: N/A YEAR BUILT:
CLEAR SPAN (NORMAL TO STREAM):
VERTICAL CLEARANCE ABOVE STREAMBED:
WATERWAY OF FULL OPENING:
DISPOSITION OF STRUCTURE:
TYPE OF MATERIAL UNDER SUBSTRUCTURE:
WATER SURFACE ELEV. @ 02.33: VELOCITY:
010: 025: 050: 0100:
025: 050: 0100:

LONG TERM STREAM BED CHANGES:
IS THE ROADWAY OVERTOPPED BELOW THE 0100? FREQUENCY:
RELIEF ELEVATION: DISCHARGE OVER ROAD @ 0100:

UPSTREAM STRUCTURE #1: TOWN: DISTANCE:
HIGHWAY NO.: STRUCTURE NO.:
STRUCTURE TYPE:
CLEAR SPAN: CLEAR HEIGHT:
YEAR BUILT: FULL WATERWAY:

UPSTREAM STRUCTURE #2: TOWN: DISTANCE:
HIGHWAY NO.: STRUCTURE NO.:
STRUCTURE TYPE:
CLEAR SPAN: CLEAR HEIGHT:
YEAR BUILT: FULL WATERWAY:

DOWNSTREAM STRUCTURE: TOWN: WEST RUTLAND DISTANCE: 10 FEET
HIGHWAY NO.: STRUCTURE NO.:
STRUCTURE TYPE: FLAT SLAB
CLEAR SPAN: 7.75 FEET CLEAR HEIGHT: 7.5 FEET
YEAR BUILT: UNKNOWN FULL WATERWAY:

DESIGN CRITERIA:

- DESIGN LIVE LOAD AASHTO: H-10 TRUCK LOAD, 85 PSF PEDESTRIAN LOAD
- DESIGN SPAN: 58'-0"
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: 21SF
- ALLOWABLE LOAD FOR PILING: N/A TYPE: ESTIMATED LENGTH:
- STRUCTURAL STEEL: M 270 GRADE 36
- REINFORCING STEEL: 60 KSI
- CONCRETE: HIGH PERFORMANCE CLASS B - F'c: 3500 PSI

TRAFFIC MAINTENANCE:
1. IS TRAFFIC TO BE MAINTAINED? N/A IF YES, ON EXISTING STRUCTURE OR ON TEMPORARY BRIDGE
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED
MINIMUM CLEAR SPAN (NORMAL TO STREAM): VERTICAL CLEARANCE ABOVE STREAMBED:
WATERWAY OF FULL OPENING:
ARE SIDEWALKS REQUIRED? IF SO, ON WHAT SIDE?
STRUCTURE TYPE:

LOADING LEVELS (LOAD FACTOR)	LOAD FACTOR LOAD RATING (TONS)					
	H	HS	352	6 AXLE	3A,STR.	4A,STR.
INVENTORY A = 2.17; B = 1.00	H14					
POSTED A = 1.55; B = 1.40						
OPERATING A = 1.30; B = 1.67	H21					
PROJECTED TRAFFIC DATA						
YEAR	ADT	DHV	% D	% T	% ADTT	
2001	N/A	N/A	N/A	N/A	N/A	
2020	N/A	N/A	N/A	N/A	N/A	

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of WEST RUTLAND Bridge No. XX
Highway No. CLARENDON AVE. Log Sta.
Surv. Sta. 120+00

PEDESTRIAN BRIDGE OVER CLARENDON BROOK

PRELIMINARY INFORMATION

Designed By: L. HARDEN Drawn By: Wm. WEATHERBY
Checked By: M. OLSTAD Date: 4/2002 Bridge Design Supervisor: M. OLSTAD Date: 4/2002

PROJECT: WEST RUTLAND PROJECT NO. ST WALK (II)
I.G.C. Info.

Bridge Sheet No. BR101 Sheet 3 OF 12

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

ITEM NO.	ITEM	UNIT	QUANTITY BREAKDOWN				TOTAL	FINAL
			SUPER STRUCTURE	ABUTMENT 1	ABUTMENT 2	MISC.		
201J0	CLEARING AND GRUBBING (INCL. INDIVIDUAL TREES & STUMPS)	LS				1	1	
203J5	COMMON EXCAVATION	CY		56	25	23	104	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY		89	66		155	
208.30	COFFERDAM EXCAVATION, EARTH	CY		80	80		160	
208.35	COFFERDAM EXCAVATION, ROCK	CY		20	20		40	
208.40	COFFERDAM (STA.B0+46.67)	LS		1			1	
208.40	COFFERDAM (STA.B1+04.67)	LS			1		1	
301.26	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	CY				16	16	
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CY		30	22		52	
502J0	SHORING SUPERSTRUCTURE	LS	1				1	
506.60	STRUCTURAL STEEL	Lb	1300				1300	
506.75	STRUCTURAL STEEL	LS	1				1	
507J5	REINFORCING STEEL	Lb		3613	2136		5749	
513.30	STRUCTURAL PAINTING, FIELD APPLIED (16.5T)	LS	1				1	
513.36	CONTAINMENT AND ENVIRONMENTAL PROTECTION, FIELD (16.5T)	LS	1				1	
513.41	SURFACE PREPARATION, FIELD (16.5T)	LS	1				1	
514J0	WATER REPELLANT	GAL		1	1		2	
522.25	STRUCTURAL LUMBER AND TIMBER (TREATED)	MFBM	2.5				2.5	
525J5	METAL HAND RAILING	LF	123				123	
531J0	BEARING DEVICE ASSEMBLY (EXP. @ ABUT. 1)	EA	2				2	
531J0	BEARING DEVICE ASSEMBLY (FIXED @ ABUT. 2)	EA	2				2	
613J2	STONE FILL, TYPE III	CY		72	36		108	
618J0	PORTLAND CEMENT SIDEWALK, 5 INCH	SY				50	50	
620.50	REMOVING AND RESETTNG FENCE	LF				21	21	
621.505	MANUFACTURED TERMINAL SECTION	EA				1	1	
621.80	REMOVAL AND DISPOSAL OF GUARDRAIL	LF				27	27	
621.81	REMOVAL AND DISPOSAL OF GUIDE POSTS	EA				4	4	
631J6	TESTING EQUIPMENT - CONCRETE	LS				1	1	
631J8	TESTING EQUIPMENT - PROTECTIVE COATING	LS				1	1	
635J0	MOBILIZATION	LS				1	1	
649.31	GEOTEXTILE UNDER STONE FILL	SY		35	17		52	
649.51	GEOTEXTILE FOR SILT FENCE	SY				34	34	
651J5	SEED	LB				25	25	
651J7	SEED - WINTER RYE	Lb				25	25	
651J8	FERTILIZER	Lb				10	10	
651.20	AGRICULTURAL LIMESTONE	TON				0.10	0.10	
651.25	HAY MULCH	TON				0.25	0.25	
651.26	HAY BALS FOR EROSION CONTROL	EA				34	34	
651.30	SODDING	SY				54	54	
651.35	TOPSOIL	CY				15	15	
654J0	EROSION MATTING	SY				255	255	

MARK	NO. PIECES	SIZE	LENGTH IN.	TYPE	WEIGHT LBS.	A	B	C	D	E	F	G	H
ABUTMENT 1													
* 1A501	73	5	104	STR	660								
1A502	16	5	45	STR	63								
1A503	26	5	137	2	310	12	125					0	
1A504	16	5	104	STR	145								
* 1A505	26	5	174	STR	394								
1A506	14	5	75	SIO	91		24	27	24				
1A507	14	5	73	SIO	88		33	7	33				
1A508	22	5	48	SIO	92		24	24	0				
ABUTMENT 2													
2A501	72	5	104	STR	650								
* 2A502	17	5	45	STR	67								
* 2A503	31	5	110	2	296	12	98					0	
2A504	18	5	77	STR	121								
2A505	23	5	174	STR	348								
2A506	14	5	75	SIO	91		24	27	24				
2A507	18	5	73	SIO	114		33	7	33				
2A508	4	5	52	SIO	18		24	28	0				
2A509	4	5	27	STR	10								
2A510	16	5	75	SIO	105		24	27	24				
2A511	18	5	210	STR	329								
ABUTMENT 1 WINGWALLS													
* W601	37	6	210	STR	973								
W501	14	5	45	STR	55								
* W502	15	5	116	STR	152								
* W602	17	6	149	2	317	12	137					0	
W503	10	5	77	SIO	67		33	11	33				
* W504	41	5	74	STR	264								
W505	8	5	54	STR	36								

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES

NOTES:

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO.18 SHALL CONFORM TO BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
*3	.376	.375	.11	1.178
*4	.668	.500	.20	1.571
*5	1.043	.625	.31	1.963
*6	1.502	.750	.44	2.356
*7	2.044	.875	.60	2.749
*8	2.670	1.000	.79	3.142
*9	3.400	1.128	1.00	3.544
*10	4.303	1.270	1.27	3.990
*11	5.313	1.410	1.56	4.430
*14	7.65	1.693	2.25	5.320
*18	13.60	2.257	4.00	7.090

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS
11 WINNERS CIRCLE ALBANY, NEW YORK, 12209

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	WEST RUTLAND	Bridge No. XX
Highway No.	CLARENDON AVE.	Log Sta.
		Surv. Sta.
PEDESTRIAN BRIDGE OVER CLARENDON BROOK		
QUANTITIES AND BAR LIST		
Designed By L. HARDEN	Drawn by Wm WEATHERBY	
Checked By M. OLSTAD	Date 4/2002	Bridge Design Supervisor M. OLSTAD Date 4/2002
PROJECT	WEST RUTLAND	PROJECT NO. ST WALK (II)
I.G.C. Info.		
Bridge Sheet No. BR102		

Sheet 4 OF 12

FILE NAME = H:\0224\NSTR\15\QUA-SHT.PLT
DATE/TIME = 11/13/02
USER = 2467

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, FUEL AND/OR LUBRICANTS, INTO ANY BROOK, STREAM OR RIVER. ANY MATERIALS WHICH ESCAPE THE CONTRACTOR EFFORTS OF PREVENTION SHALL BE IMMEDIATELY AND ENTIRELY CLEANED UP OR REMOVED.
3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL, AIR, GROUND AND WATER POLLUTION CONTROL REGULATIONS, HEALTH AND SAFETY REGULATIONS AND TRANSPORTATION REGULATIONS WHEN CLEANING, HANDLING, MOVING, PAINTING, CUTTING, WELDING, SANDING OR GRINDING ANY COATED OR TREATED MATERIAL.
4. IT IS ANTICIPATED THAT THE MAJORITY OF THE WORK TO RESTORE THE TRUSSES AND INSTALL THE BRIDGE WILL TAKE PLACE AWAY FROM ANY TRAFFIC. SHOULD ANY OF THE CONSTRUCTION ACTIVITIES AFFECT THE TRAVELING PUBLIC, THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SIGNING AND TRAFFIC CONTROL NECESSARY TO ASSURE SAFE MOVEMENT OF TRAFFIC IN ACCORDANCE WITH VAOT SPECIFICATION SECTION 64I. THE COST SHALL BE INCIDENTAL TO THE ITEMS IN THE CONTRACT.
5. THE FOLLOWING TABLE OF ALLOWABLE STRESSES APPLY TO THESE PLANS FOR DESIGN PURPOSES:
- | | |
|---|---|
| NEW STRUCTURAL STEEL, AASHTO M-270 GRADE 36 | Fy=36,000 PSI
Fb=19,800 PSI
Fv=17,000 PSI |
| CONCRETE, CLASS B, (HPC-B): | f'c=3,500 PSI fci=400 PSI |
| REINFORCING STEEL: | F1=24,000 PSI GRADE 60 |
6. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT UNLESS OTHERWISE NOTED.
7. THERE ARE NO HISTORICAL RECORD PLANS FOR THIS STRUCTURE. ALL DIMENSIONS HAVE BEEN CALCULATED AS ACCURATELY AS POSSIBLE. HOWEVER, THE CONTRACTOR IS ADVISED TO FIELD VERIFY DIMENSIONS TO ENSURE THE WORK CAN BE CONSTRUCTED AS PROPOSED BY THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MATCH THE FINAL PRODUCT AS DESCRIBED IN THE PLANS WITH THE EXISTING FIELD CONDITION
8. THE REHABILITATED STRUCTURE HAS BEEN DESIGNED FOR AN INVENTORY LOAD OF H-10.
9. NO UTILITY ADJUSTMENTS ARE ANTICIPATED BY THE PLANS FOR THE BRIDGE PROJECT. SHOULD ADJUSTMENTS OF THE UTILITIES FACILITIES BE DESIRED, PROPER ARRANGEMENTS SHALL BE MADE IN CONFORMANCE WITH SUBSECTION 105.07 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
10. THE CONTRACTOR SHALL PREPARE A LEVEL AND SECURE STAGING AREA TO PERFORM REHABILITATION WORK ON THE TRUSS BRIDGE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SECURING THE STAGING AREA. THE EXISTING TRUSS IS STORED IN A VAOT YARD IN CLARENDON, VERMONT OFF OF ROUTE 7B. CONTRACTOR MAY PERFORM TRUSS REHABILITATION AND PAINTING IN THIS YARD. CONTRACTOR SHALL PROVIDE TRANSPORTATION OF THE TRUSS AND ALL COMPONENTS FROM THE CLARENDON VERMONT YARD TO THE PROPOSED WEST RUTLAND SITE. THE COST OF TRANSPORTATION SHALL BE INCLUDED IN ITEM 506.75. THE CONTRACTOR SHOULD NOTE THAT THE RIGHT TRUSS IS TAGGED WITH PINK SURVEY TAPE MARKERS AND THE LEFT TRUSS IS TAGGED WITH YELLOW SURVEY TAPE MARKERS.
11. THE CONTRACTOR SHALL SANDBLAST CLEAN, PER VAOT SPECIFICATION 513.4I, THE TRUSSES, FLOORBEAMS AND STRINGERS, SUPPORTING THEM IN AN UPRIGHT POSITION. UPON CLEANING STEEL, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO INSPECT ALL STEEL MEMBERS FOR AREAS OF SIGNIFICANT SECTION LOSS DUE TO RUST OR DAMAGE.
12. THE CONTRACTOR SHALL USE GREAT CARE IN LIFTING, MOVING, AND TRANSPORTING THE TRUSSES TO AVOID DAMAGE TO THE BRIDGE. LIFTING THE TRUSSES FROM ANYWHERE ON THE BOTTOM CHORD, OR AT MIDDLE THIRD OF THE TOP CHORD SHALL BE AVOIDED TO PREVENT OVER STRESSING OF MEMBERS AND/OR STRESS REVERSALS IN THE TRUSS.
13. THE CONTRACTOR IS RESPONSIBLE FOR BRACING AND SECURING THE TRUSSES TO PROVIDE LATERAL STABILITY OF THE TRUSSES DURING REPAIR AND ASSEMBLY. ITEM 502J0, SHORING SUPERSTRUCTURE, SHALL BE FULL COMPENSATION FOR PROVIDING BRACING AND SHORING ACTIVITIES.
14. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) AND IN ACCORDANCE WITH SECTION 713 OF THE STANDARD SPECIFICATIONS.
15. ALL CONCRETE SHALL BE ITEM 501.34 CONCRETE, HIGH PERFORMANCE CLASS B UNLESS OTHERWISE NOTED.
16. REINFORCING PLACEMENT TOLERANCES SHALL BE: SPACING +/- 1" CLEARANCE +/- 1/4"

17. MINIMUM COVER FOR REINFORCING STEEL SHALL BE THREE INCHES (3") UNLESS OTHERWISE NOTED.
18. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1".
19. SURFACES OF BRIDGE SEAT AREAS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 1/4" PER FOOT TOWARDS MID-SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH STEEL TROWEL FINISHED.
20. WATER REPELLANT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
21. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
22. ALL STRUCTURAL STEEL, EXCEPT RAILINGS, ANCHOR BOLTS AND DECK BOLTS SHALL BE PAINTED GREEN (FEDERAL COLOR CHIP NO. 14062) AS DESCRIBED UNDER VERMONT SPECIFICATION SECTION 513 "PROTECTIVE COATINGS".
23. CHARPY V-NOTCH TESTING WILL NOT BE REQUIRED FOR ANY STEEL MEMBERS ON THIS PROJECT.
24. ALL NEW STRUCTURAL STEEL FOR THE TRUSS MEMBERS AND ASSOCIATED CONNECTION ANGLES SHALL CONFORM TO AASHTO M-270 GRADE 36.
25. ALL NEW STRUCTURAL STEEL COMPONENTS SUCH AS LATERAL BRACING ANGLES AND REPAIR PLATES SHALL BE PAID FOR AND INCLUDED UNDER ITEM 506.60 "STRUCTURAL STEEL". THE ASSEMBLY OF THE TRUSSES, STRINGERS, FLOORBEAMS AND REPAIR OF EXISTING BENT MEMBERS WILL BE PAID FOR UNDER ITEM 506.75.
26. ALL CONNECTIONS ON THE TRUSS ARE BELIEVED TO BE 3/4" INCH DIAMETER RIVETS IN 1 1/8" INCH HOLES. THE CONTRACTOR SHALL VERIFY DIAMETER OF ACTUAL RIVET OR BOLT SIZE BEFORE ORDERING REPLACEMENTS (SEE NOTES 28 AND 30I).
27. ALL BOLTS IN THE TIMBER CURB AND TIMBER DECK SHALL MEET ASTM A-307 GALVANIZED. BOLTS SHALL BE TIGHTENED TO THE FULL EFFORT OF A WORKER WITH A WRENCH, BUT NOT SO TIGHT AS TO CRUSH THE WOOD OR BREAK THE CAST "C" CLIPS.
28. ALL BOLTS USED SHALL MEET AASHTO M164 (ASTM A 325 TYPE 1) HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE IN THE PLANS. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED PER SUBSECTION 506J9 OF THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.
29. THE CONTRACTOR IS REMINDED THAT ALL HARDWARE FOR CONNECTIONS IS NOT PAID FOR DIRECTLY BUT IS CONSIDERED SUBSIDIARY TO THE STRUCTURAL STEEL ITEM. THE CONTRACTOR IS URGED TO MAKE A DETAILED COUNT OF ALL HARDWARE NECESSARY AS REQUIRED TO COMPLETE THE WORK AS SHOWN ON THESE PLANS. BOLT LENGTHS SHALL BE FIELD VERIFIED BY THE CONTRACTOR TO ALLOW 1/2" INCH MINIMUM PROJECTION BEYOND THE NUT IN SNUG POSITION, AND HAVE SUFFICIENT THREAD LENGTH TO TIGHTEN AS MUCH AS NECESSARY.
30. ALL RIVETS REMOVED FROM THE TRUSS SHALL BE REPLACED WITH AASHTO M-164 (ASTM A 325 TYPE 1) HIGH STRENGTH BOLTS OF EQUIVALENT DIAMETER. ANY RIVET OR BOLT HOLES NOT OTHERWISE REPLACED SHALL BE FILLED WITH A HIGH STRENGTH BOLT.
31. ALL BOLT HOLES IN WOOD AND STEEL SHALL BE 1/16" LARGER THAN THE BOLT UNLESS NOTED OTHERWISE ON THE PLANS.
32. ANCHOR BOLTS FOR THE TRUSS AND STRINGERS AT THE EXPANSION ABUTMENT WILL HAVE A 1/8" GAP BETWEEN THE BOTTOM OF THE NUT AND THE TOP OF THE WASHER. BURR THE THREADS ON ALL ANCHOR BOLTS TO PREVENT REMOVAL OF THE NUTS.
33. AN ORNAMENTAL PEDESTRIAN RAILING SHALL BE USED ON THIS PROJECT. DETAILS FOR FABRICATION OF THIS ORNAMENTAL RAIL ARE SHOWN ON SHEET BR109. THIS WORK SHALL BE PAID FOR AS ITEM 525J5 METAL HAND RAILING.
34. ALL EXISTING STEEL TO REMAIN WILL BE CLEANED AND RECEIVE A PRIME COAT AND TWO TOP CATS IN ACCORDANCE WITH STATE OF VERMONT AGENCY OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION 513 "PROTECTIVE COATINGS". THE FINAL TOP COAT SHALL BE AFTER THE BRIDGE IS IN PLACE AND ALL OTHER WORK IS COMPLETE. THE CONTRACTOR IS ALERTED THAT ALL EXISTING STEEL MAY CONTAIN LEAD BASED PAINT. APPROPRIATE PRECAUTIONS SHALL BE OBSERVED AS SPECIFIED IN ITEM 513.36.

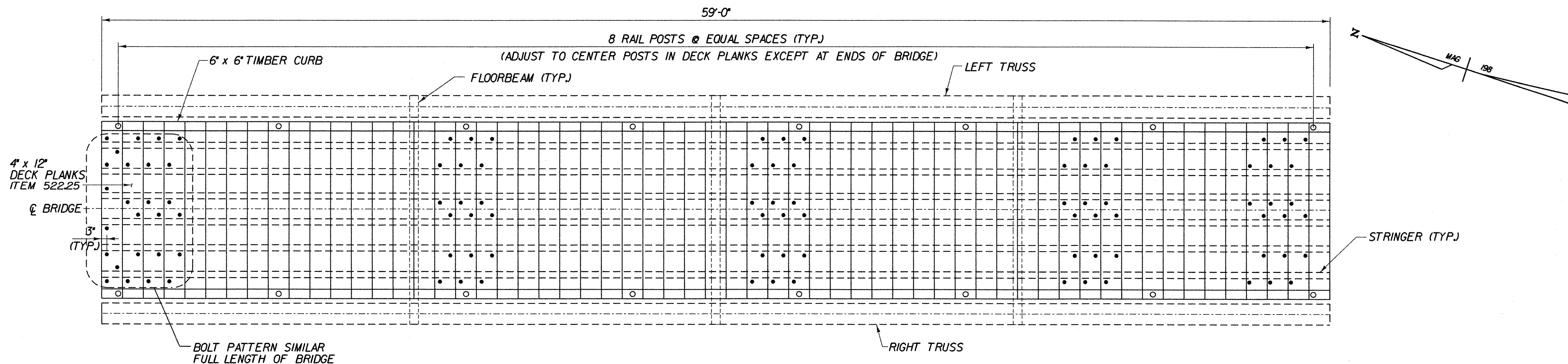
35. THE ORNAMENTAL PEDESTRIAN RAILING ASSEMBLY WILL BE PAINTED IN ACCORDANCE WITH STATE OF VERMONT AGENCY OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION SECTION 513 - PROTECTIVE COATINGS. THE RAIL IS TO RECEIVE A PRIME COAT AND A TOP COAT PRIOR TO ASSEMBLY.
36. TIMBER DECK PLANKS SHALL BE DRESSED OR ROUGH DRY SIZE 4 x 12 SOUTHERN PINE (NO. 2 OR BETTER).
37. TIMBER DECK PLANKS SHALL BE PLACED WITH A TIGHT JOINT BETWEEN PLANKS TO ALLOW FOR SEASONING SHRINKAGE. IF ACTUAL DECK PLANK TO BE INSTALLED ARE NOT ANTICIPATED TO SHRINK, THEN A 1/8" GAP SHALL BE LEFT BETWEEN PLANKS.
38. THE ITEM 522.25 STRUCTURAL LUMBER AND TIMBER (TREATED) IS FOR ALL THE WORK ASSOCIATED WITH THE LUMBER AND TIMBER NECESSARY TO CONSTRUCT THE BRIDGE AS DETAILED ON THESE PLANS, INCLUDING BUT NOT LIMITED TO CUTTING AND DRILLING.
39. LATERAL BRACING RODS SHALL BE CAREFULLY TIGHTENED SNUG TIGHT IN A MANNER THAT AVOIDS RACKING THE BRIDGE OUT OF SHAPE OR OUT OF SQUARE.
40. THE CONTRACTOR IS REQUIRED TO COORDINATE WORK AS NECESSARY WITH THE WATERLINE/SIDEWALK CONTRACTOR.
41. ASSEMBLY OF THE EXISTING TRUSS MEMBERS SHALL BE IN ACCORDANCE WITH SECTION 506 OF THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.
42. TIMBER CURB SHALL BE DRESSED OR ROUGH DRY SIZE 6 x 6 SOUTHERN PINE (NO. 2 OR BETTER).
43. ALL HARDWARE (BOLTS, WASHERS, NUTS, "C" CLIPS, ETC) SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232 (ASTM A153) UNLESS OTHERWISE NOTED IN PLANS, WHERE REQUIRED, OVERSIZE NUTS SHALL BE PROVIDED FOR GALVANIZING. FASTENERS SHALL RECEIVE INTERMEDIATE AND FINAL COATS OF PAINT AFTER INSTALLATION.
44. THE BRIDGE RAILING SHALL BE PAINTED BLACK (FEDERAL COLOR CHIP NO. 27038) AS DESCRIBED UNDER VERMONT SPECIFICATION SECTION 513 "PROTECTIVE COATINGS". THE CONTRACTOR IS RESPONSIBLE FOR PAINTING ALL NEW STRUCTURAL STEEL, INCLUDING A PRIME COAT AND TWO TOP COATS, PAID FOR UNDER ITEMS 513.30, 513.36 AND 513.4I.

COFFERDAM NOTES

45. COFFERDAM LIMITS TO BE DETERMINED BY THE CONTRACTOR.
46. THE PAY LIMITS OF "COFFERDAM EXCAVATION", "ROCK" OR "EARTH" SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING, UP TO EXISTING GROUND OR BOTTOM OF SUBBASE, WHICHEVER IS LOWER.
47. ONE FOOT UNDERCUT AS DETERMINED NECESSARY BY THE RESIDENT ENGINEER.
48. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM EXCAVATION PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION.

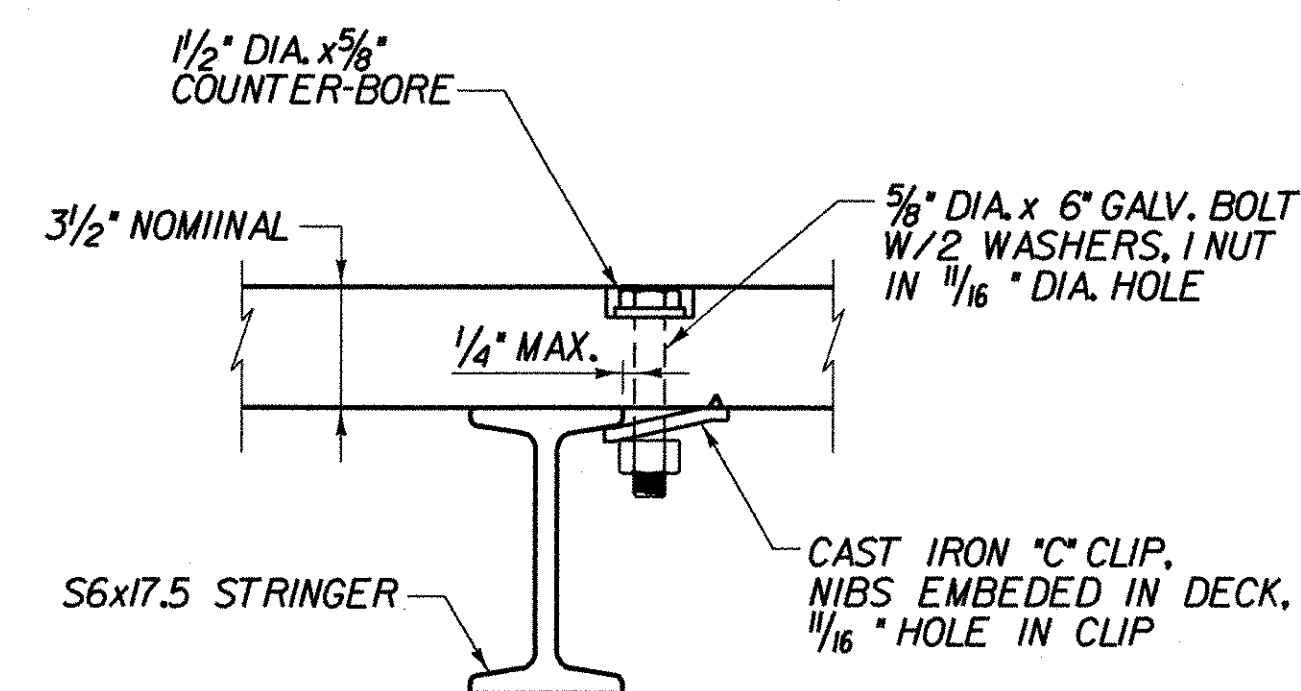
STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of WEST RUTLAND		Bridge No. XX	
		Log Sta.	
Highway No. CLARENDON AVE.		Surv. Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
GENERAL NOTES			
Designed By L. HARDEN		Drawn by Wm. WEATHERBY	
Checked By M. OLSTAD	Date 4/2002	Bridge Design Supervisor M. OLSTAD	Date 4/2002
PROJECT WEST RUTLAND		PROJECT NO. ST WALK (III)	
I.G.C. Info.			
Bridge Sheet No. BR103		Sheet 5 OF 12	





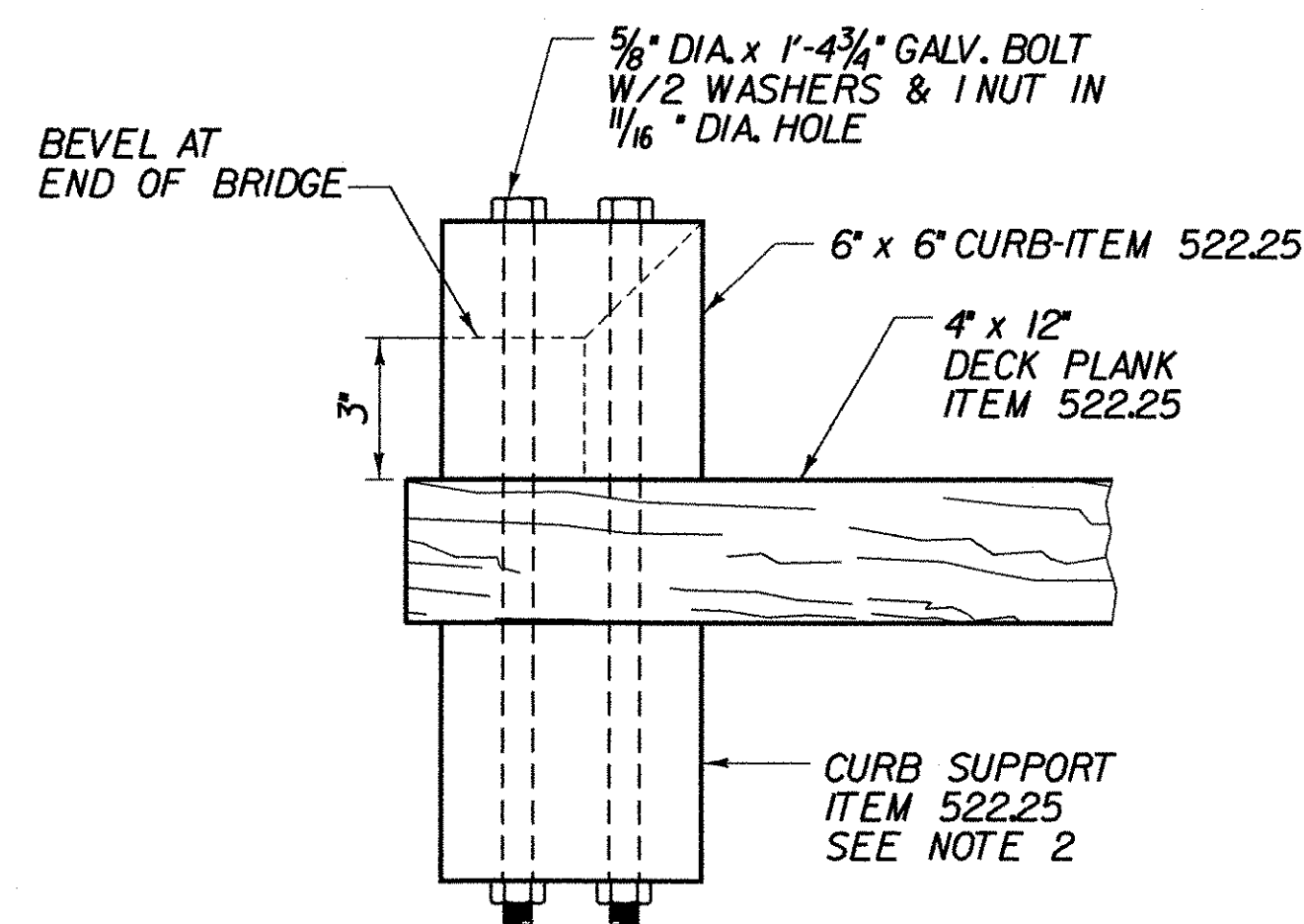
DECK LAYOUT AND BOLTING PATTERN

SCALE 3/8" = 1'-0"



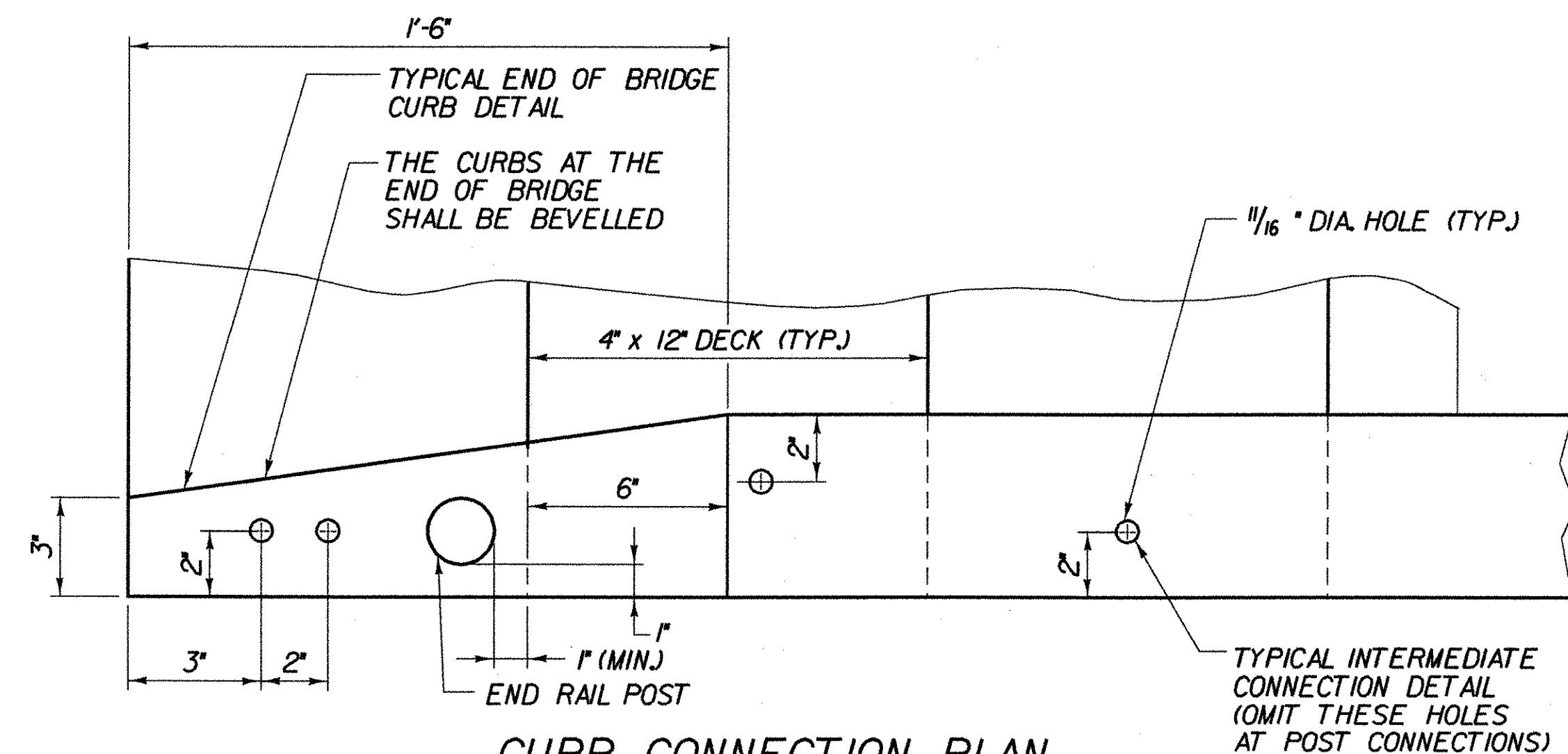
DECK TO STRINGER CONNECTION

SCALE 3" = 1'-0"



TYPICAL CURB SECTION

SCALE 3" = 1'-0"



CURB CONNECTION PLAN

SCALE 3" = 1'-0"

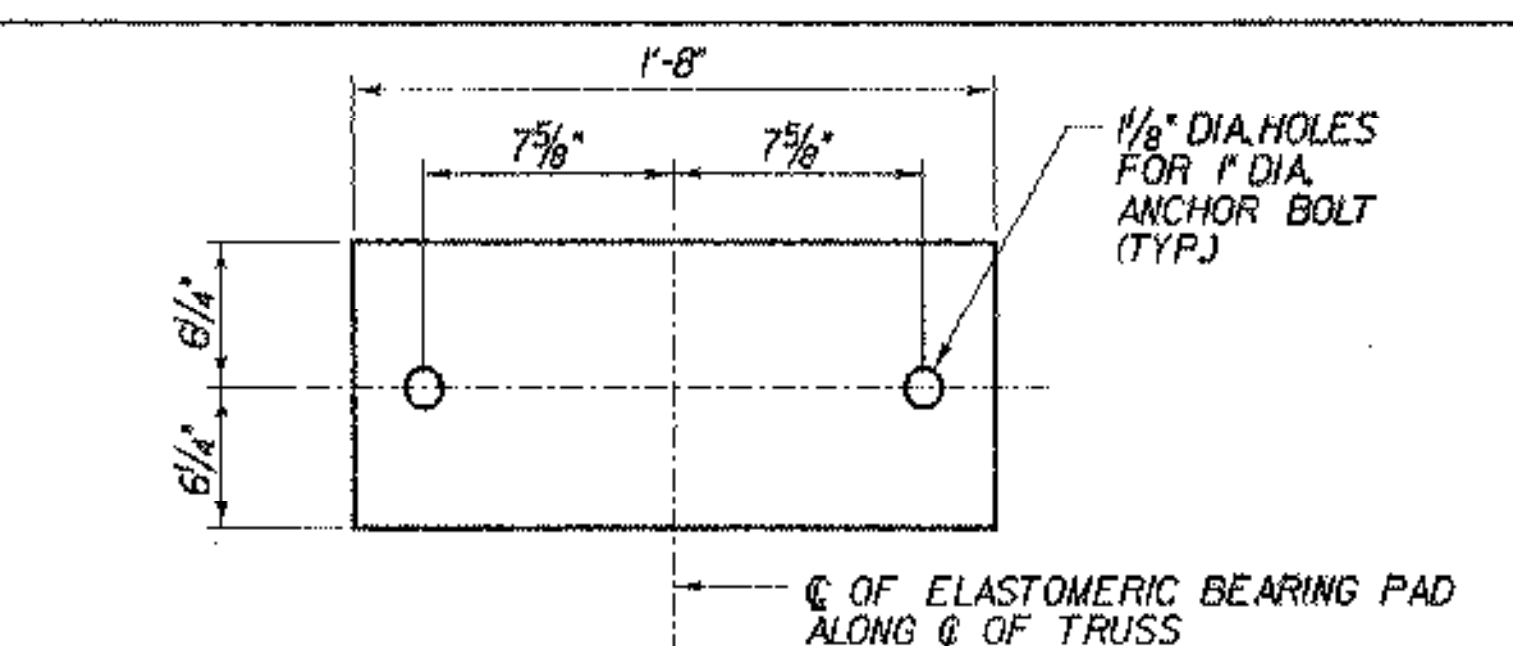
NOTES:

1. USE FULL PLANKS ON ENDS AND ADJUST WIDTH OF 1 OR 2 INTERIOR PLANKS TO MATCH SPAN OF BRIDGE.
2. TERMINATE CURB SUPPORT AT EACH FLOORBEAM AND BEGIN AGAIN AFTER FLOORBEAM.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	WEST RUTLAND	Bridge No.	XX
Highway No.	CLARENDON AVE.	Log Sta.	
		Surv. Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
DECK PLAN AND DETAILS			
Designed By	L. HARDEN	Drawn by	Wm. WEATHERBY
Checked By	M. OLSTAD	Date	4/2002
		Bridge Design Supervisor	M. OLSTAD
		Date	4/2002
PROJECT	WEST RUTLAND	PROJECT NO.	ST WALK (III)
I.G.C. Info.			
Bridge Sheet No. BR104		Sheet 6 OF 12	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
10 WINNERS' CIRCLE ALBANY, NEW YORK 12208



(NOT TO SCALE)

TRUSS

1" DIA. AASHTO M183 ANCHOR BOLT, SEE NOTE 4 (TYP.)

10'

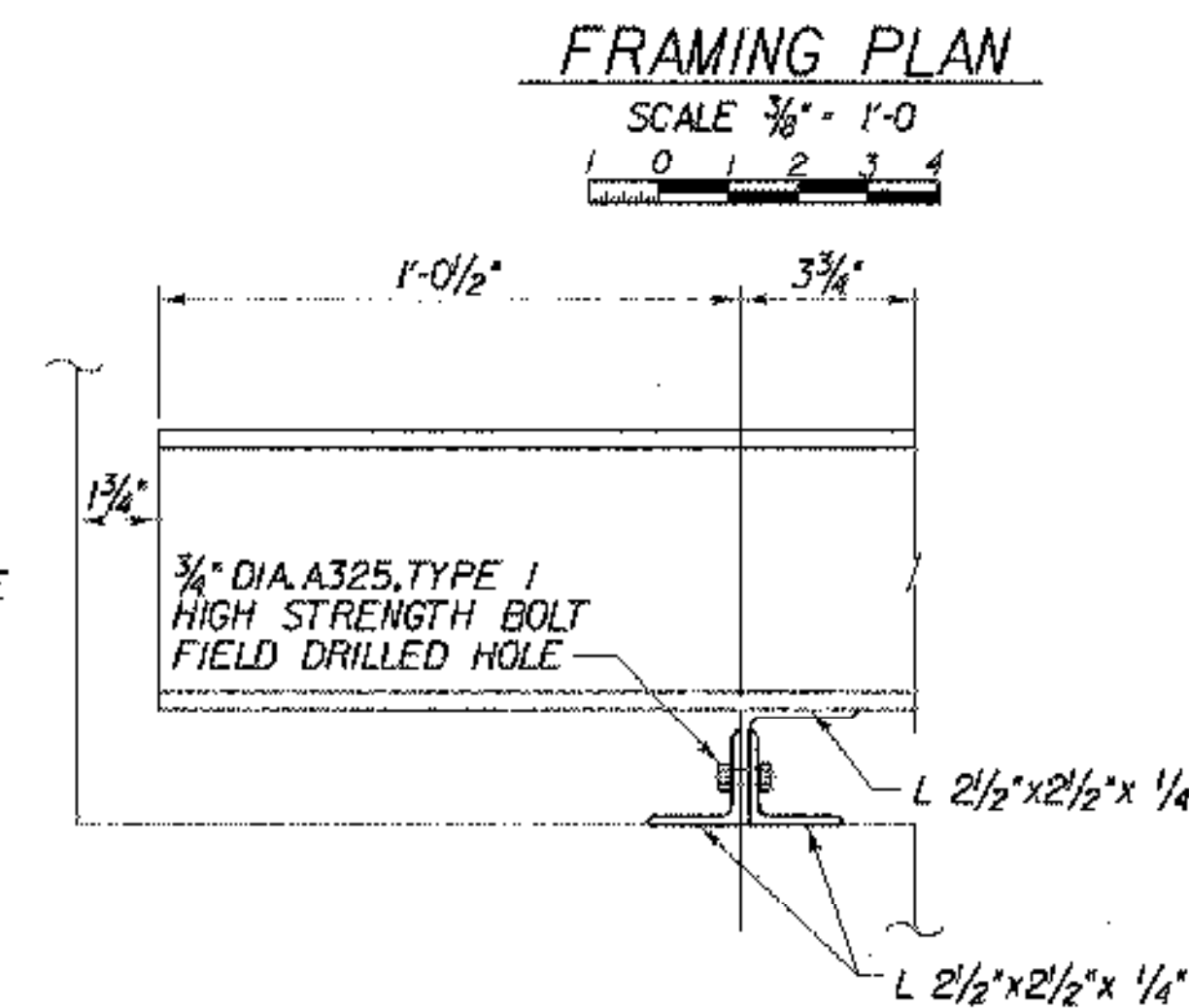
10'

1'-3"

This diagram shows the elevation of the bridge deck and truss. The deck is a horizontal rectangular section. Two vertical truss members are shown, each connected to the deck by a horizontal anchor bolt. The anchor bolts are labeled "1" DIA. AASHTO M183 ANCHOR BOLT, SEE NOTE 4 (TYP.)". The truss members are labeled "TRUSS". The deck is supported by two vertical piers. The piers are labeled "10'" at the base. The total width of the bridge deck is labeled "10'". The height of the deck above the piers is labeled "1'-3\"".

NOTES:

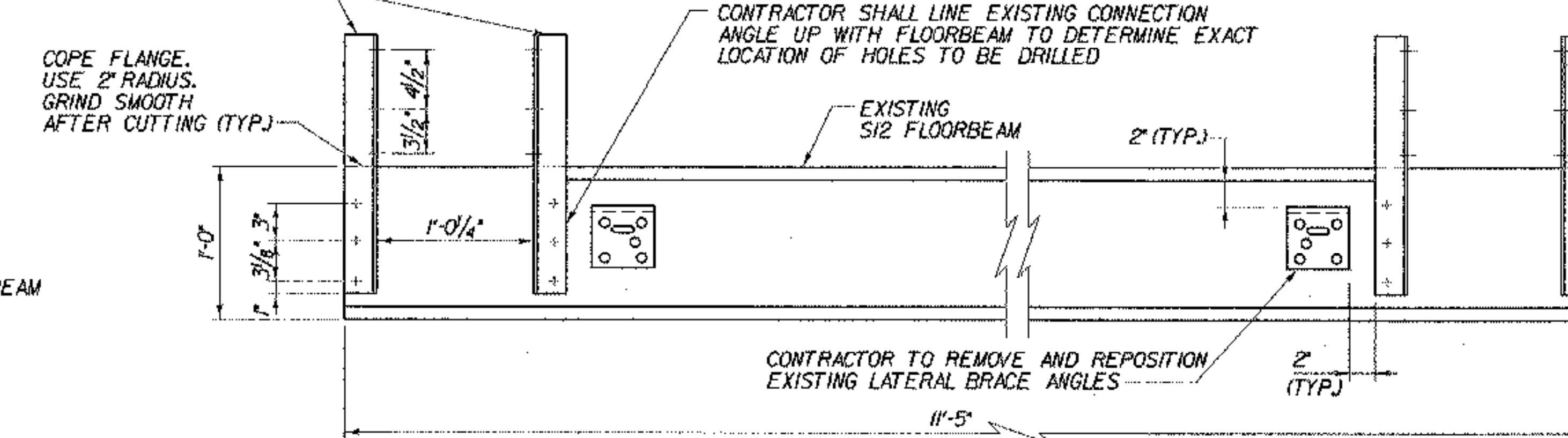
1. IT IS ASSUMED THAT ALL EXISTING HOLES ARE $\frac{13}{16}$ " DIAMETER. THE CONTRACTOR SHOULD VERIFY THIS DIMENSION BEFORE ORDERING BOLTS.
2. CONTRACTOR SHALL REMOVE ALL CUT-OFFS BY CAREFULLY REMOVING ALL BOLTS OR RIVETS.
3. REPAIR OF EXISTING MEMBERS TO BE PAID FOR UNDER ITEM 506.60.
4. THE CONTRACTOR SHALL HAND TIGHTEN THE FIXED END ANCHOR BOLT NUT AND BURR THE THREADS ABOVE THE NUT. THE CONTRACTOR SHALL LEAVE A $\frac{1}{8}$ " GAP AT EXPANSION BOLTS BELOW THE NUT AND BURR THE THREADS ABOVE THE NUT. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M183, M291 AND F844, RESPECTIVELY.
5. REPOSITION OR REPLACE PLATES A.O.B.E..
6. CONTRACTOR SHALL VERIFY BEARING DIMENSIONS BEFORE ORDERING ELASTOMERIC PADS.
7. ASSEMBLY OF TRUSSES, FLOORBEAMS AND STRINGERS TO BE PAID FOR UNDER ITEM 506.75.
8. EXTRA CARE IS REQUIRED WHEN WELDING NEW STEEL TO OLD STEEL. THE WELDER SHALL PERFORM A TEST WELD ON SCRAP EXISTING OLD STEEL TO DEVELOP A QUALIFIED WELDING PROCEDURE. THIS PROCEDURE WILL INCLUDE THE ELECTRODE SIZE, AMPERE AND TRAVEL SPEED TO ASSURE CRACK FREE WELDS. THE WELDER SHALL HAVE AN AWS CERTIFICATION DESIGNATING THEM AS QUALIFIED IN THE APPROPRIATE CATEGORY FOR STRUCTURAL WELDING.



SCALE 3" = 1'-0"

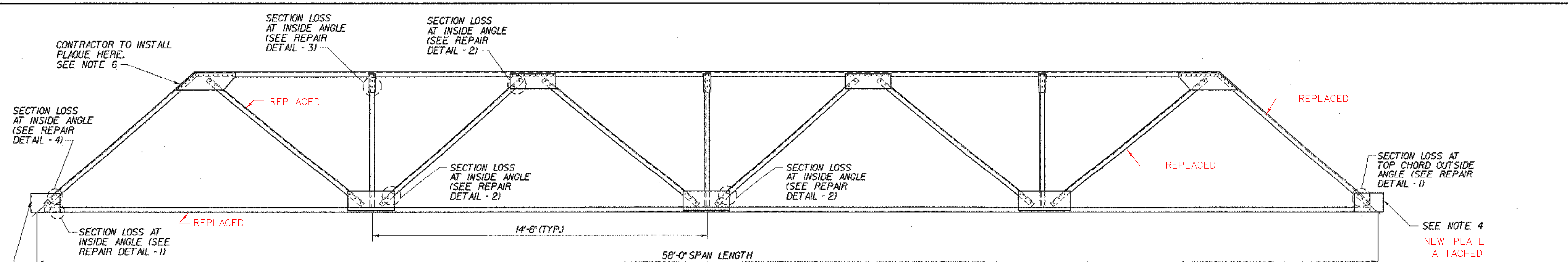
1 9 6 3 0

SEE NOTE 2



S12x31.67 FLOORBEAM ELEVATION

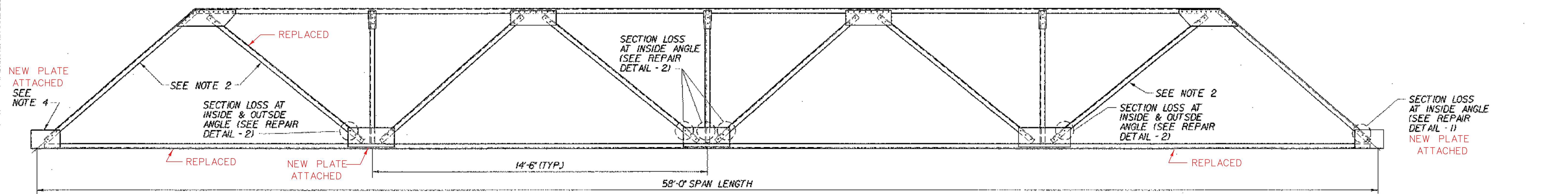
STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of WEST RUTLAND	Bridge No. 5X
	Log Sta.
Highway No. CLARENDON AVE.	Surv. Sta.
PEDESTRIAN BRIDGE OVER CLARENDON BROOK	
FRAMING PLAN AND DETAILS	
Designed By L. HARDEN	Drawn by Wm. WEATHERBY
Checked By Date M. OLSTAD 4/2002	Bridge Design Supervisor Date M. OLSTAD 4/2002
PROJECT WEST RUTLAND	PROJECT NO. ST WALK 011
G.C. Info.	
Drawn Sheet No. BR105	Sheet 7 OF 12



RIGHT TRUSS ELEVATION

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

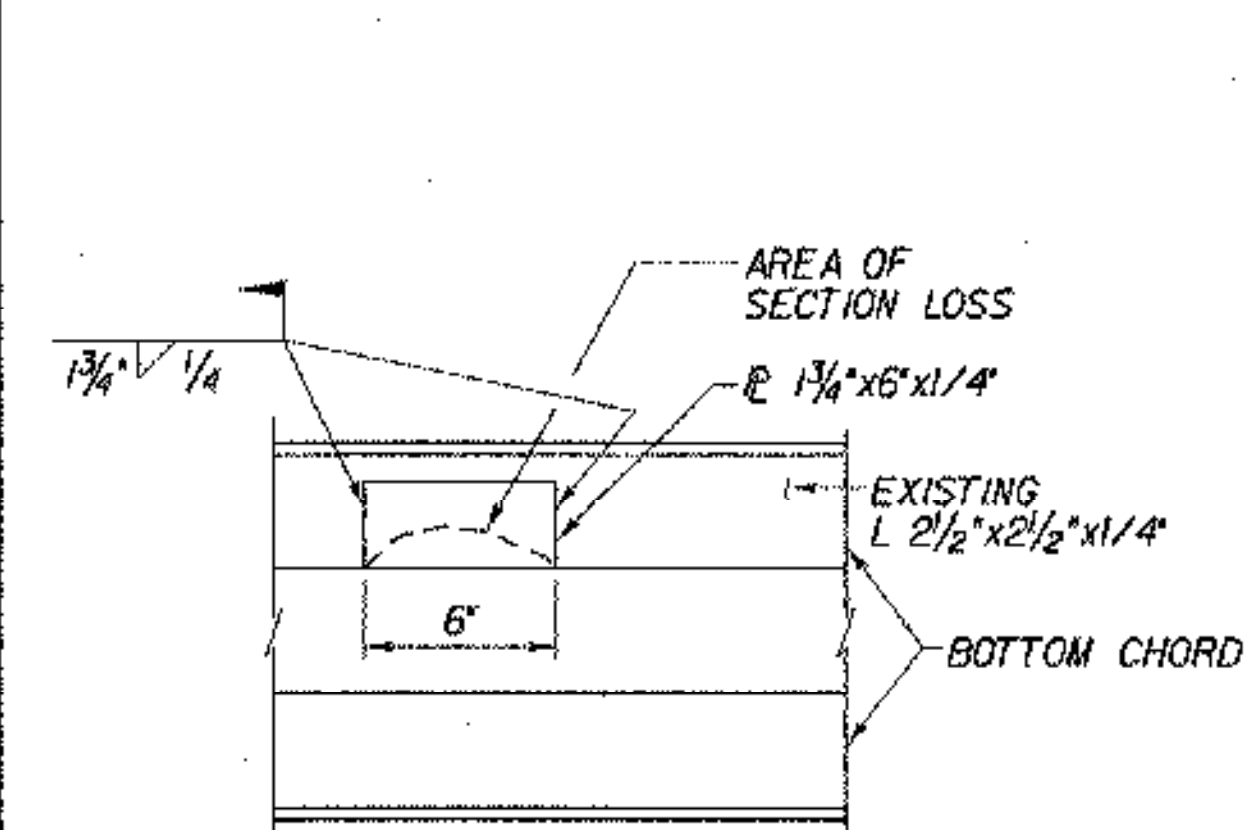
LEGEND:
 INSIDE ANGLE = ANGLE THAT FACES WALKWAY.



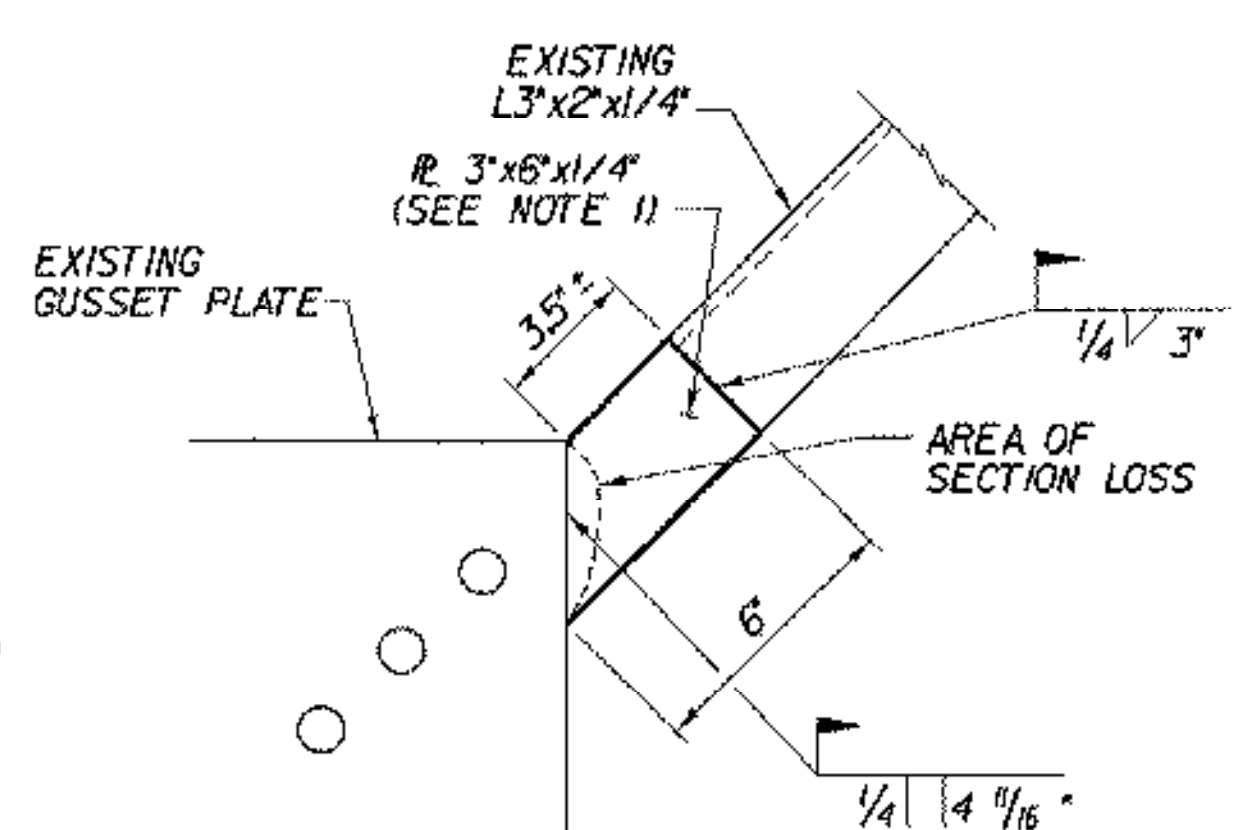
LEFT TRUSS ELEVATION

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

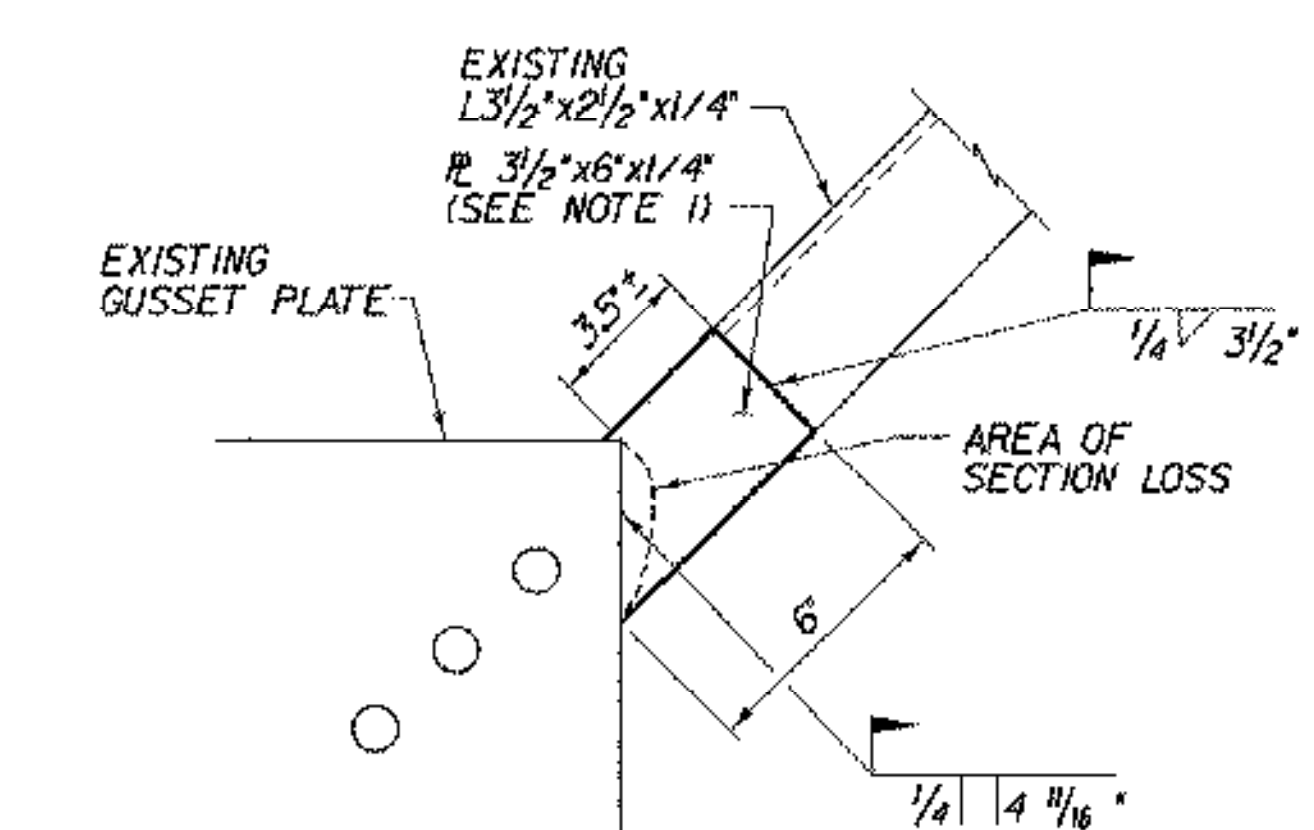
- NOTES:
1. CONTRACTOR TO VERIFY EXISTING TRUSS DIMENSIONS BEFORE CUTTING PLATES.
 2. STRAIGHTEN BENT MEMBER AS PER VAOT SPECIFICATION 506J2(H).
 3. CONTRACTOR SHALL REMOVE AND REPLACE ANY RIVETS WITH SEVERE SECTION LOSS AS PER ENGINEER.
 4. STRAIGHTEN BENT PLATE AS PER VAOT SPECIFICATION 506J2(H).
 5. AFTER TRUSS IS BLAST CLEANED, ENGINEER SHALL INSPECT AND DETERMINE IF ADDITIONAL STRENGTHENING IS REQUIRED.
 6. CONTRACTOR TO INSTALL PLAQUE AT LOCATION SHOWN. VAOT WILL PROVIDE PLAQUE AND HARDWARE. A GASKET SHALL BE INSTALLED BETWEEN PLAQUE AND TRUSS AND BOLT SLEEVES SHALL BE USED. PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN ITEM 506.75.



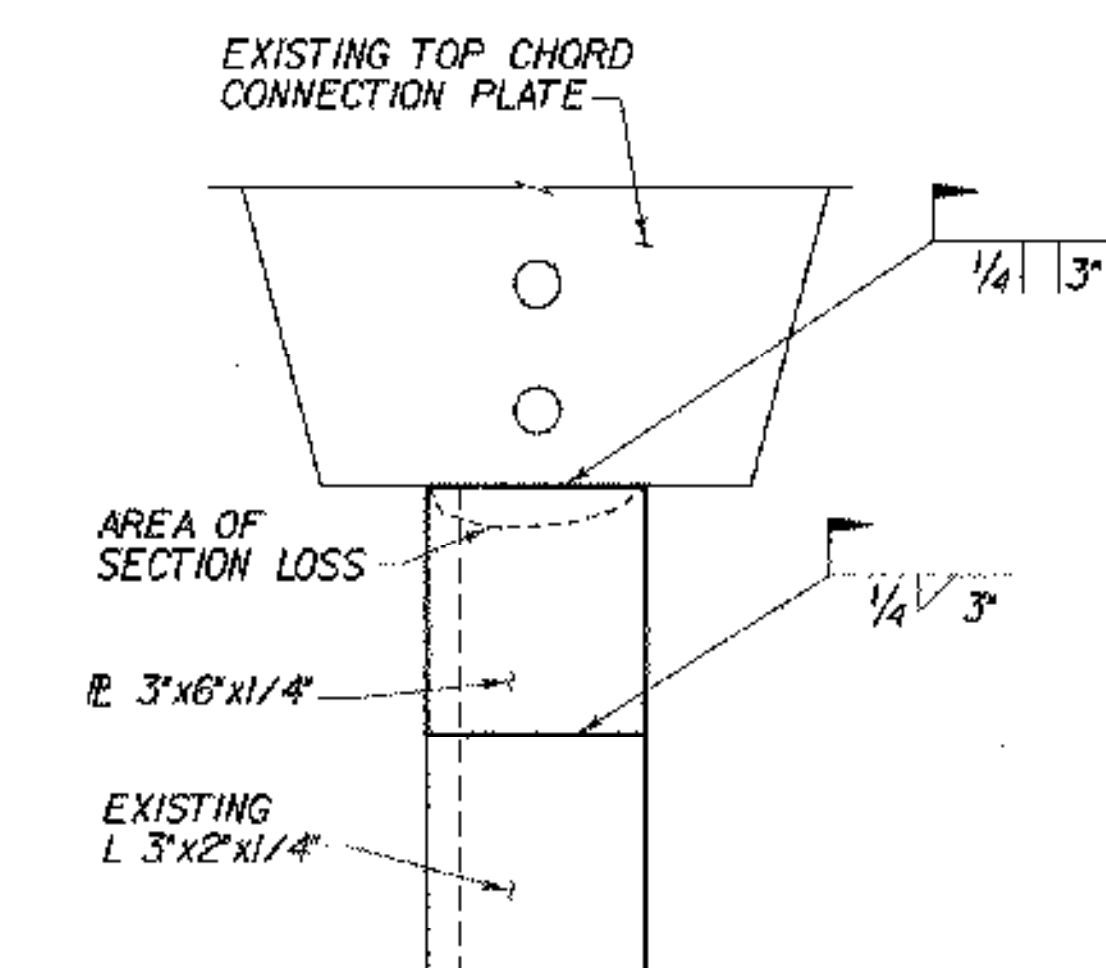
REPAIR DETAIL - 1 (PLAN VIEW)
 (NOT TO SCALE)



REPAIR DETAIL - 2
 (NOT TO SCALE)



REPAIR DETAIL - 4
 (NOT TO SCALE)



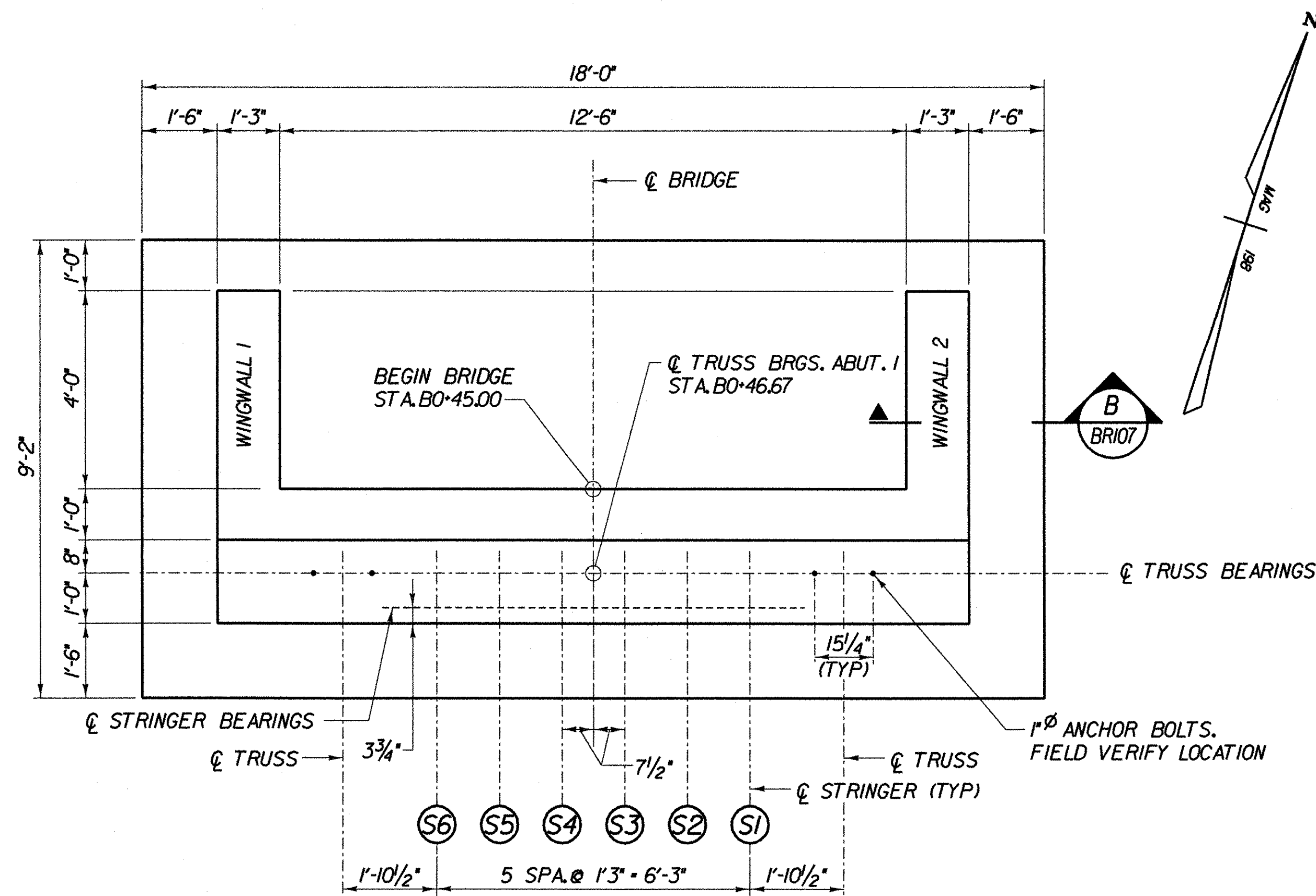
REPAIR DETAIL - 3
 (NOT TO SCALE)

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	WEST RUTLAND	Bridge No.	XX
Highway No.	CLARENDON AVE.	Log Sta.	
		Surv. Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
STEEL REPAIR DETAILS			
Designed By	L. HARDEN	Drawn by	Wm WEATHERBY
Checked By	Date	Bridge Design Supervisor	Date
M. OLSTAD	4/2002	M. OLSTAD	4/2002
PROJECT	WEST RUTLAND	PROJECT NO.	ST WALK (D)
I.G.C. Info.		Bridge Sheet No. BR106	
		Sheet 8 OF 12	

CH CLOUGH, HARBOUR & ASSOCIATES LLP
 ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
 110 WINDSOR CIRCLE ALBANY, NEW YORK, 12207

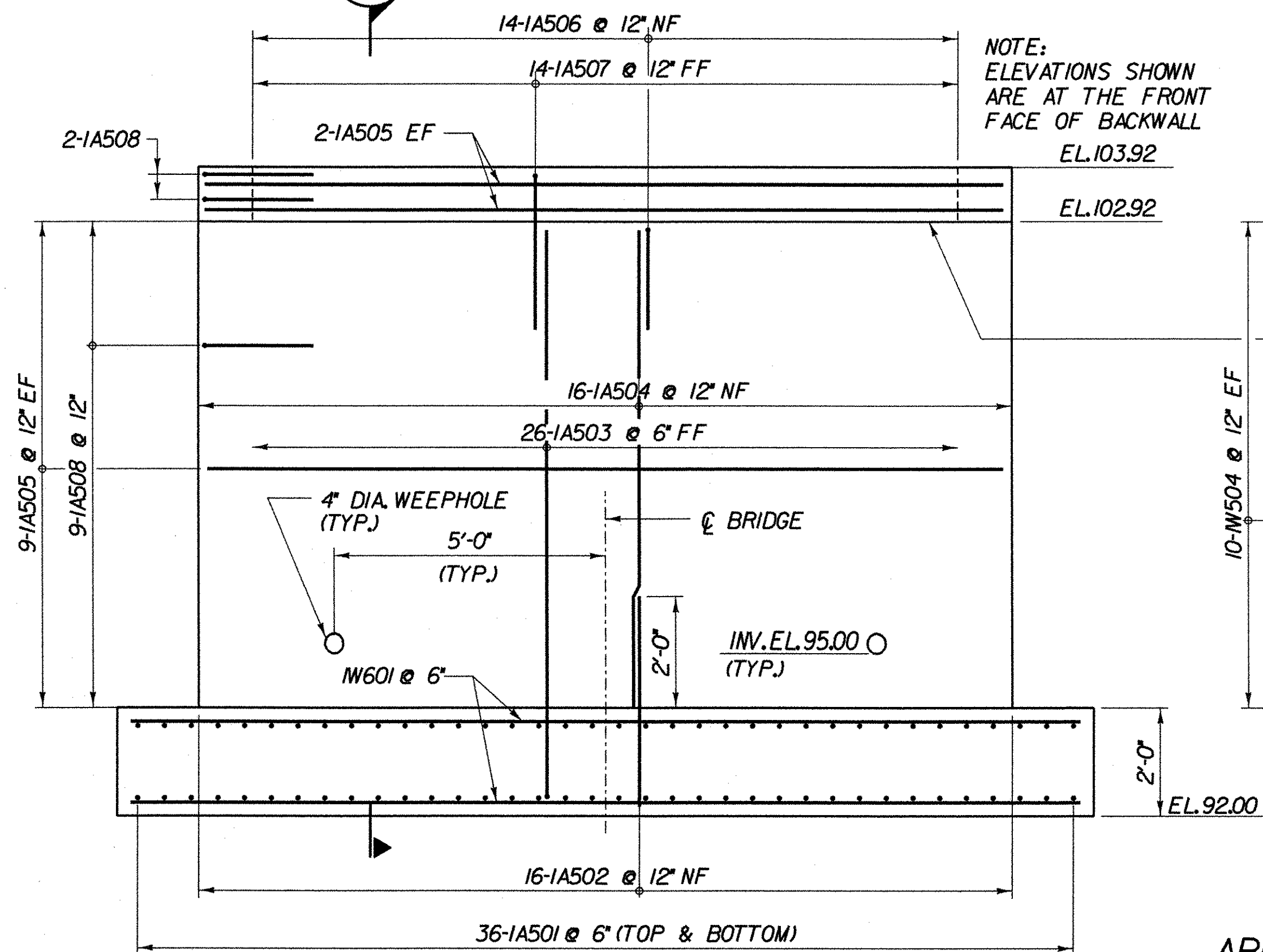
DATE/TIME: 11/16/2002 2:45:57

FILE NAME: \\0024\WSTN\15\ABUT1.PLT
DATE/TIME: 11/01/02
USER: z467



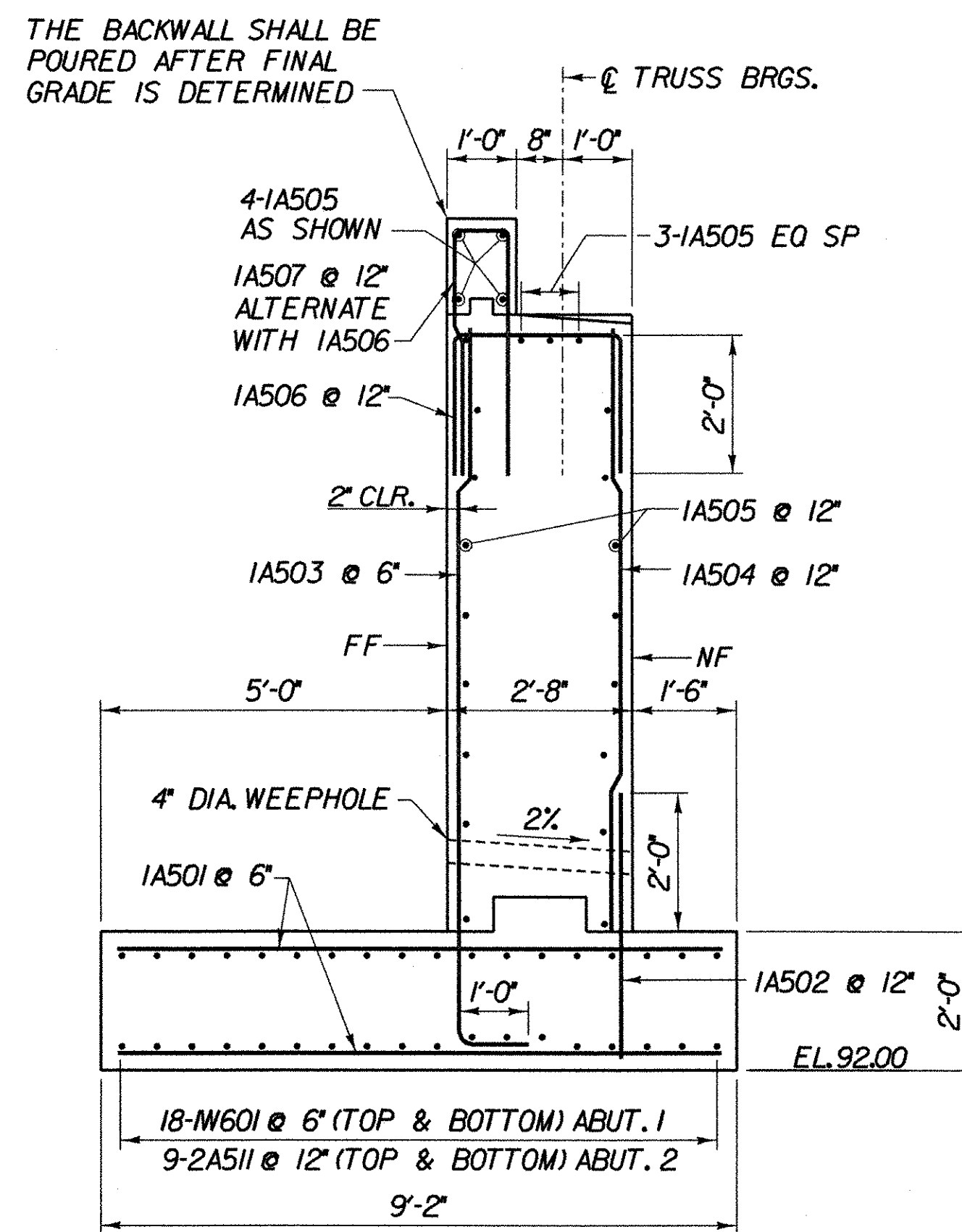
PLAN

SCALE 1/2" = 1'-0"



ELEVATION ABUTMENT 1

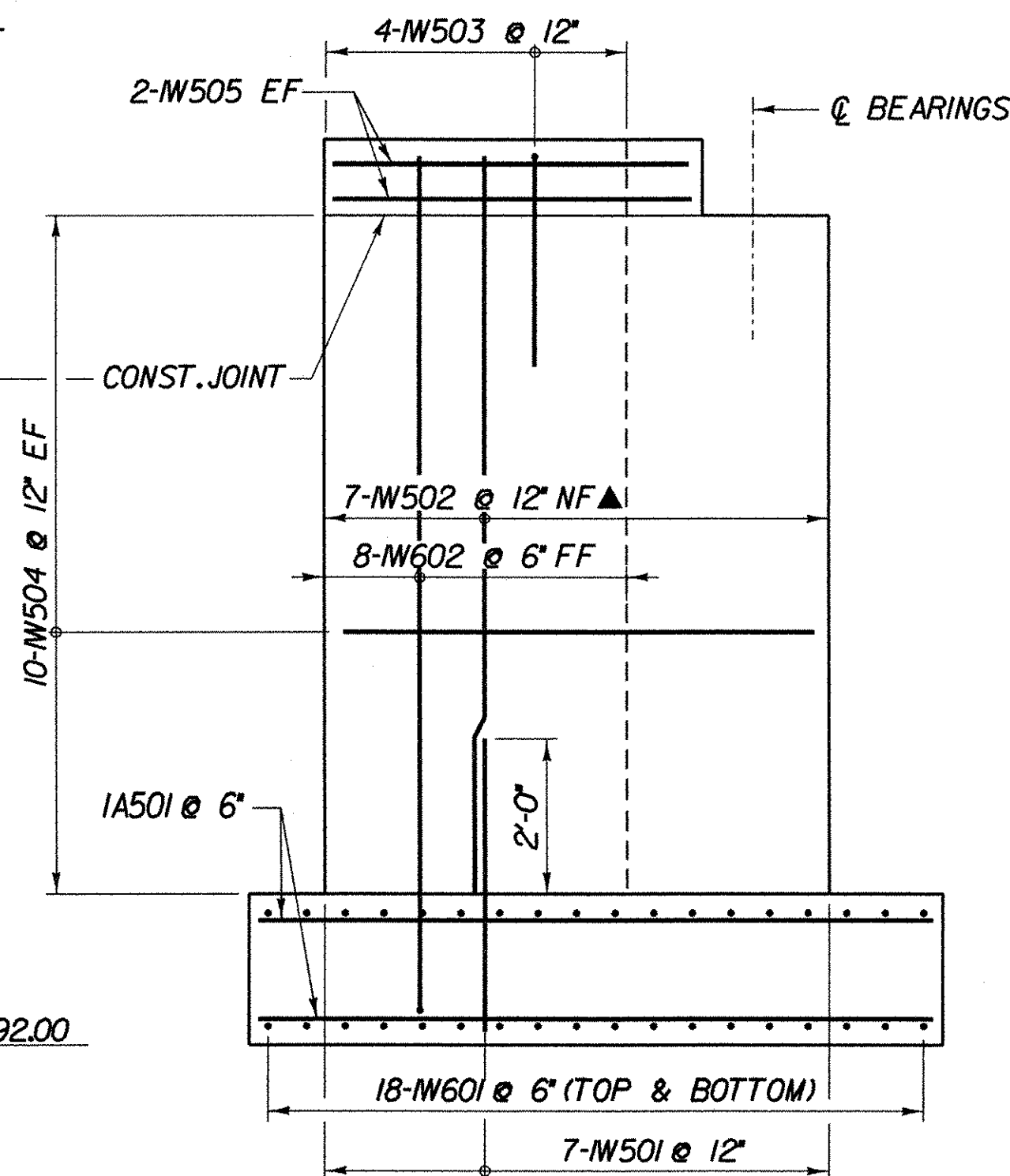
SCALE 1/2" = 1'-0"



A TYPICAL ABUTMENT SECTION

ABUTMENT 1 (SHOWN), ABUTMENT 2 (SIMILAR, EXCEPT AS NOTED)

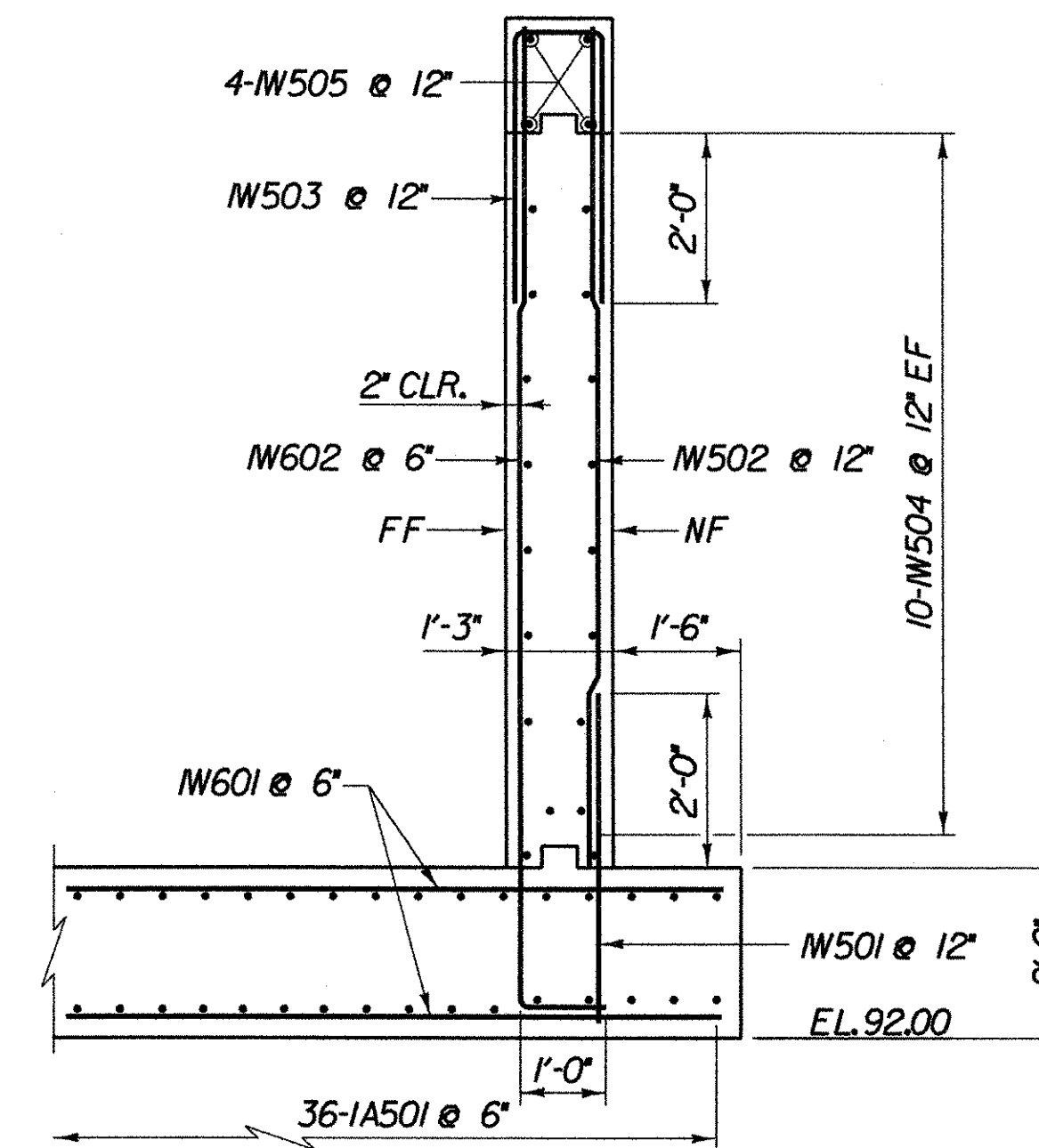
SCALE 1/2" = 1'-0"



ABUTMENT 1 WINGWALL REINF. ELEVATION

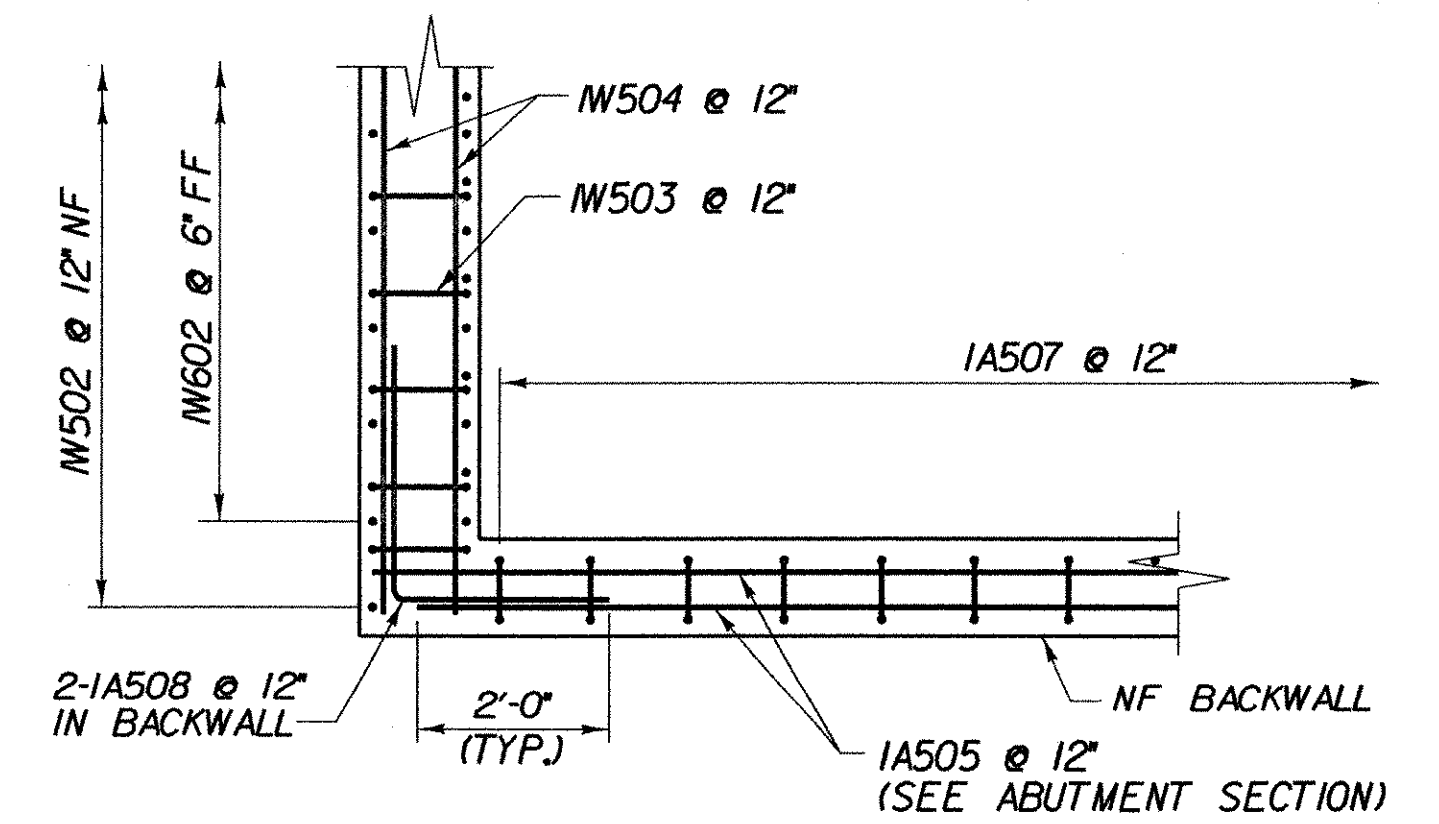
EAST WINGWALL (SHOWN), WEST WINGWALL (SIMILAR)

SCALE 1/2" = 1'-0"



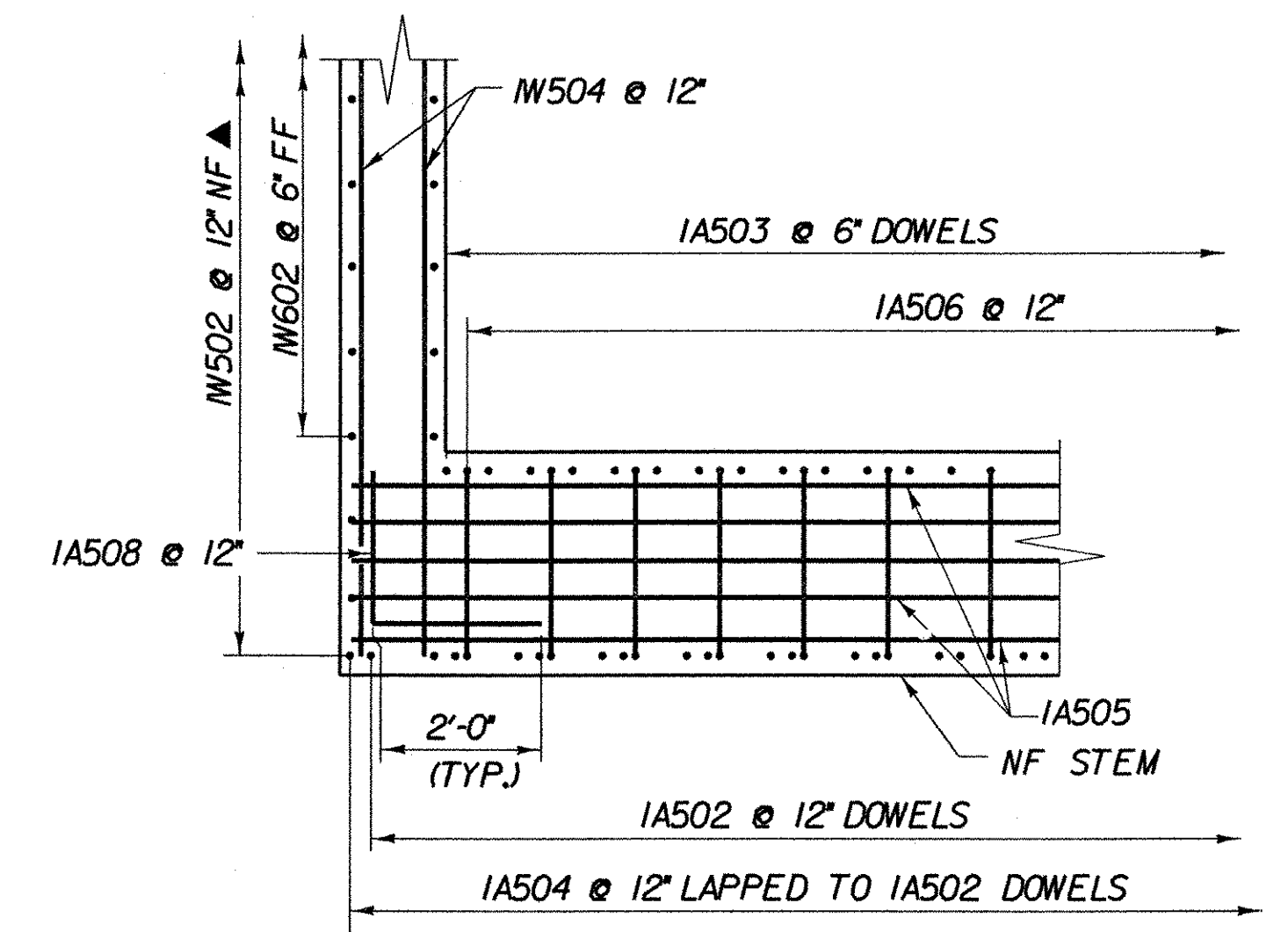
B TYPICAL ABUTMENT 1 WINGWALL SECTION

SCALE 1/2" = 1'-0"



PLAN - BACKWALL CORNER - ABUTMENT 1

SCALE 1/2" = 1'-0"



PLAN - STEM CORNER

SCALE 1/2" = 1'-0"

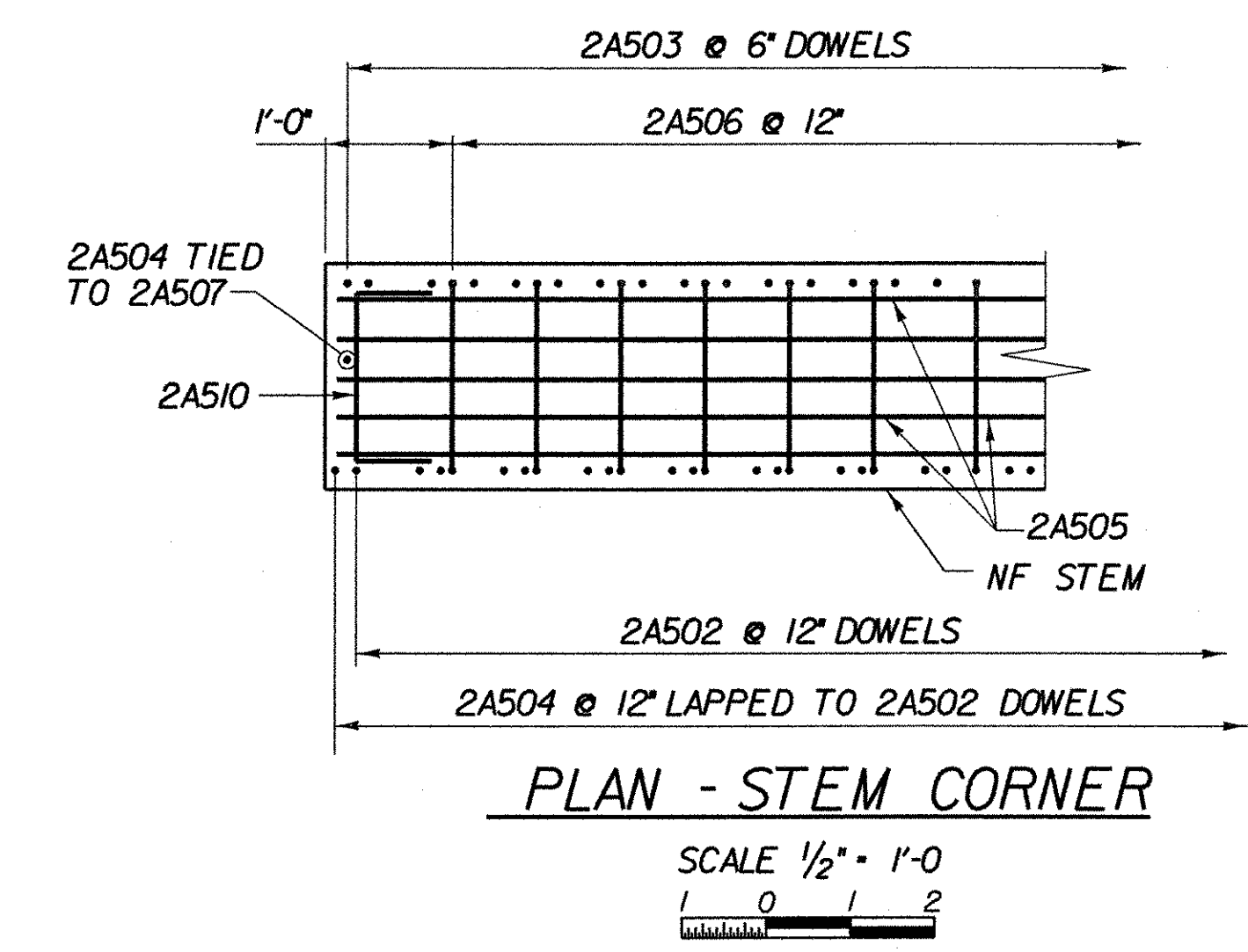
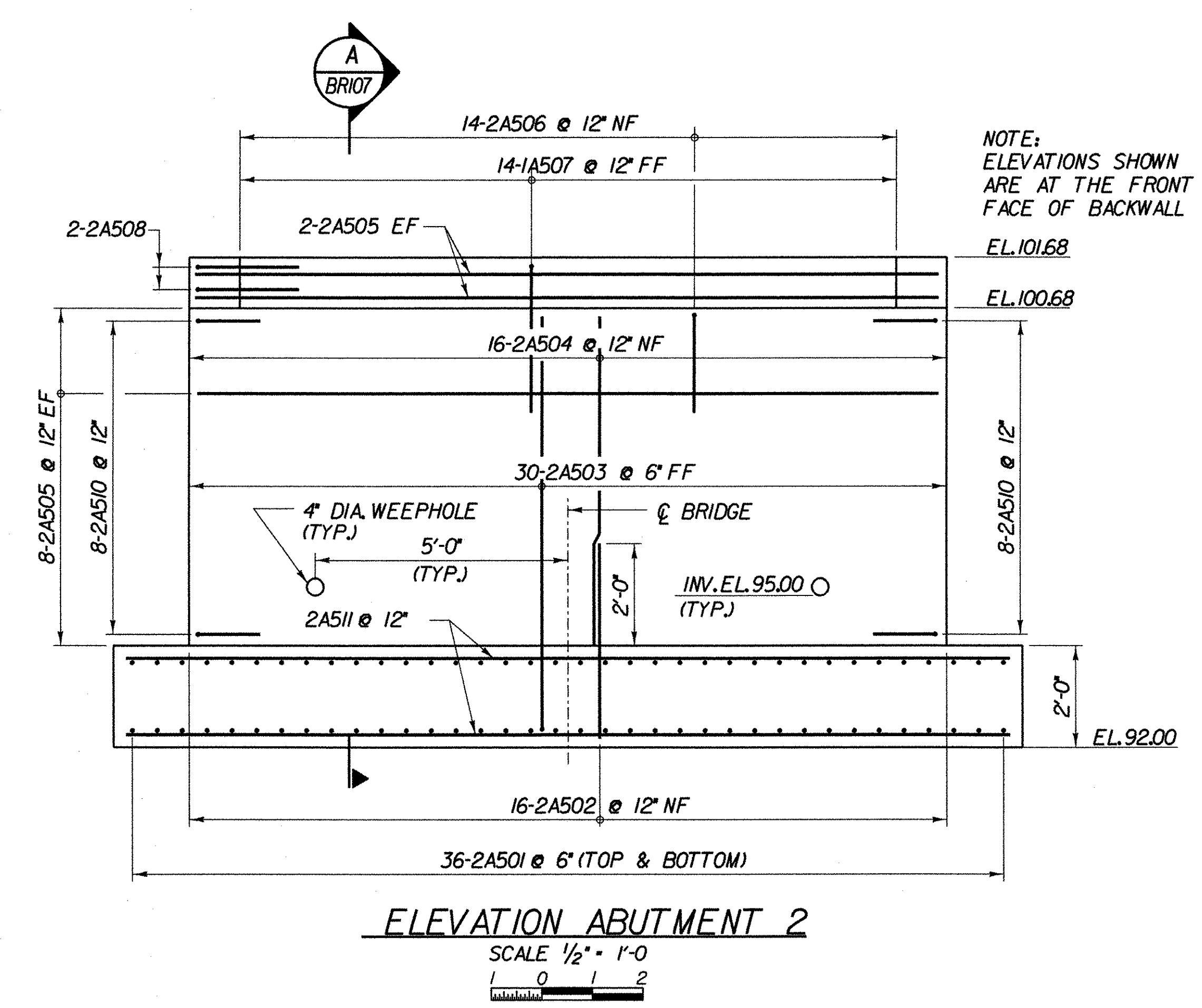
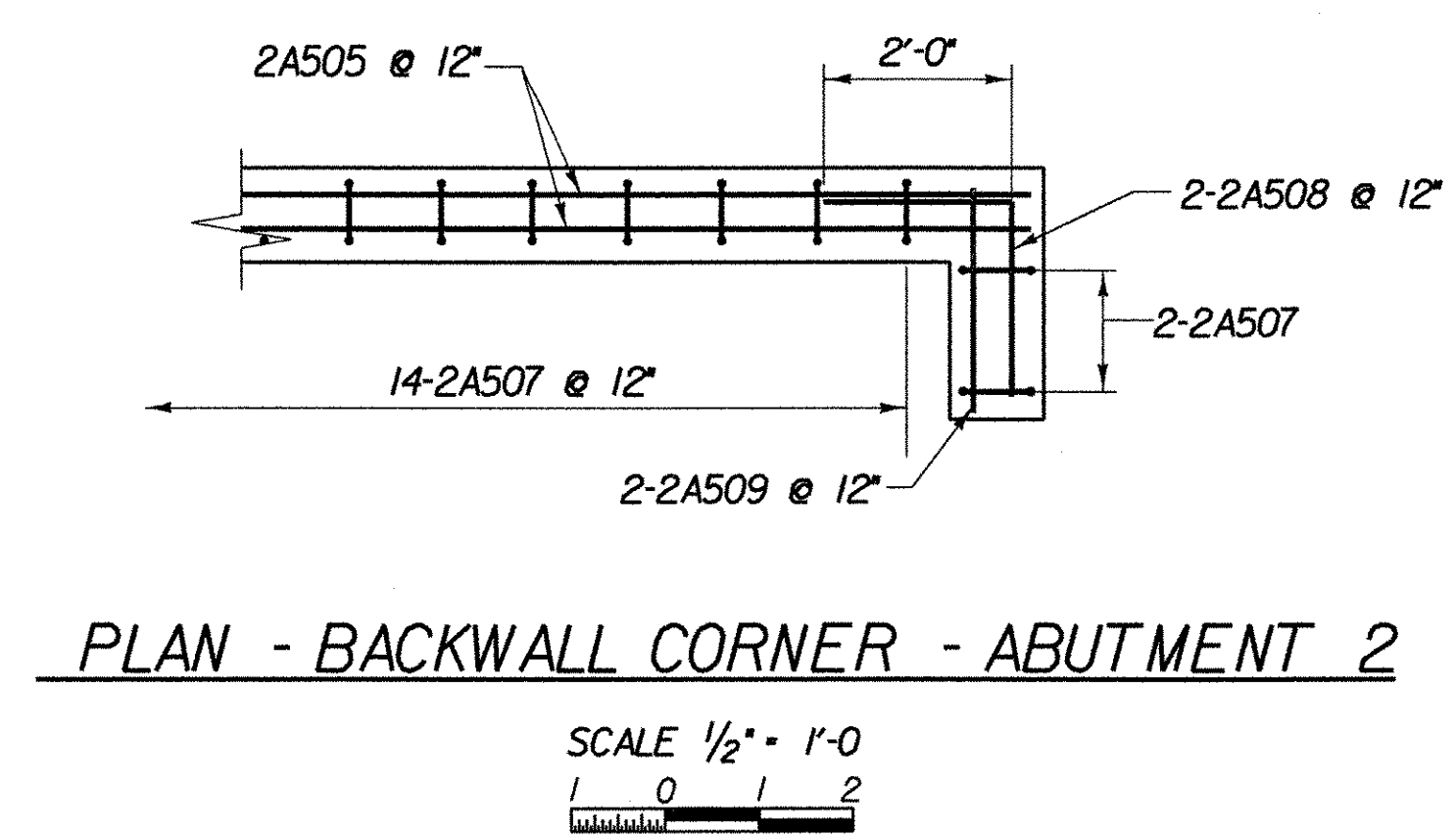
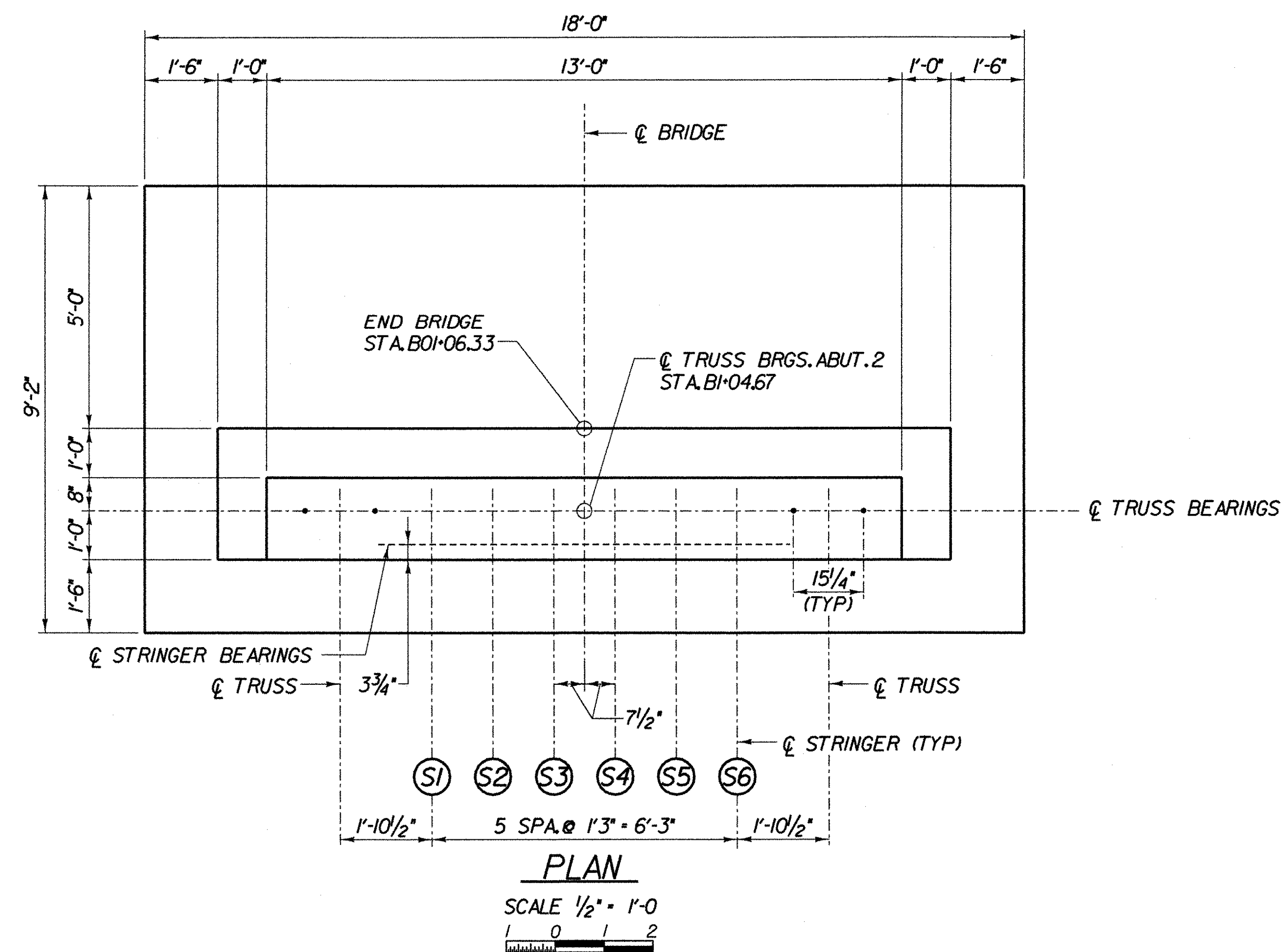
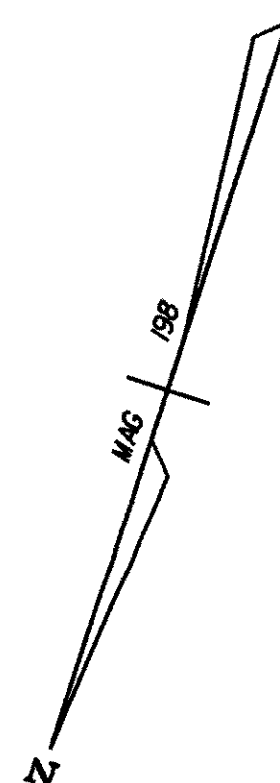
NOTE:

NF - NEAR FACE
FF - FAR FACE
EF - EACH FACE
3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.
▲ - CUT TO FIT IN FIELD

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	WEST RUTLAND	Bridge No.	XX
Highway No.	CLARENDON AVE.	Log Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
ABUTMENT 1 PLAN AND ELEVATION			
Designed By	L. HARDEN	Drawn by	Wm WEATHERBY
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
PROJECT	WEST RUTLAND	PROJECT NO.	ST WALK (III)
L.G.C. Info.			
Bridge Sheet No. BRI07		Sheet 9 OF 12	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
WINNERS CIRCLE ALBANY, NEW YORK 12205

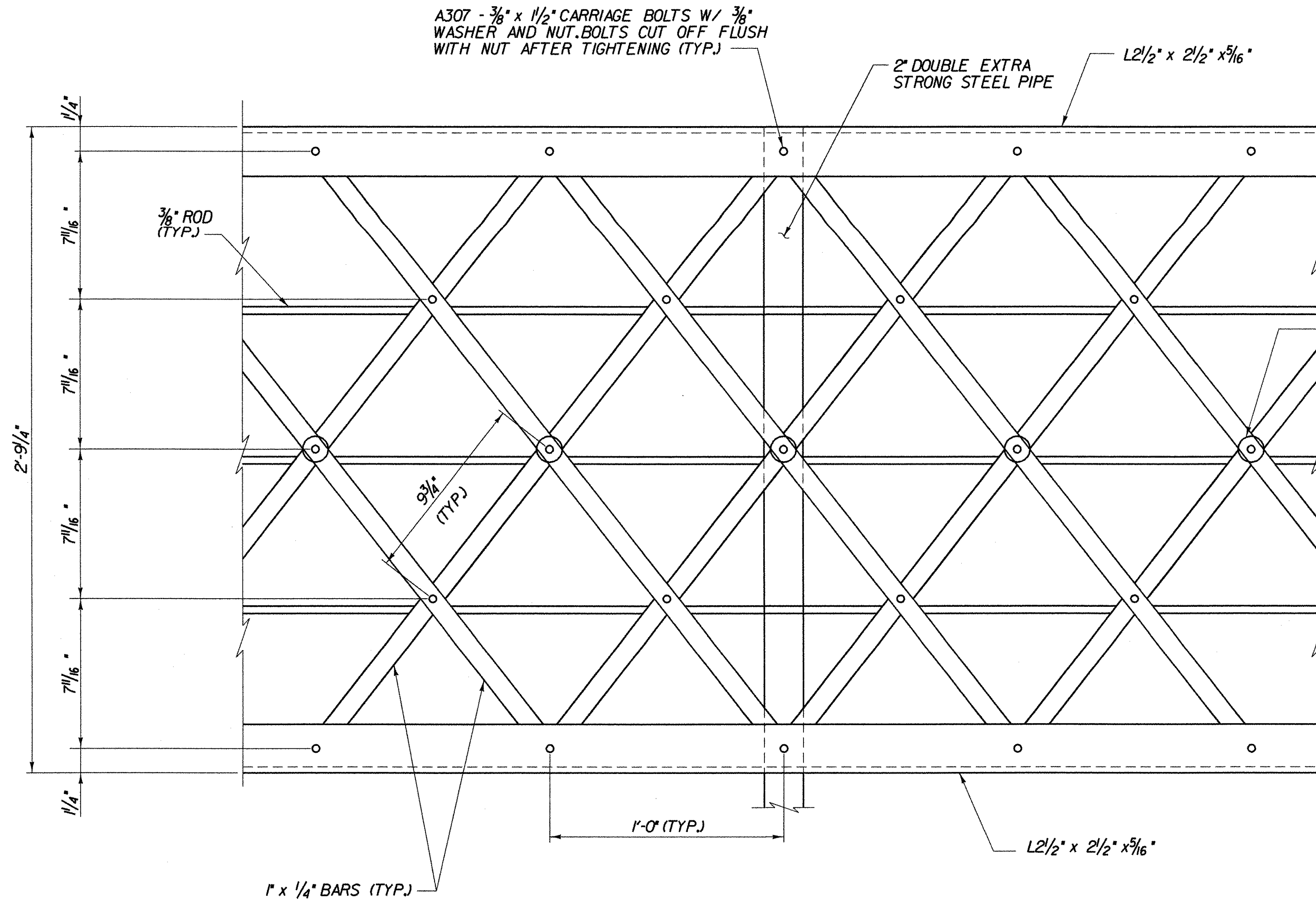


NOTE:
 NF = NEAR FACE
 FF = FAR FACE
 EF = EACH FACE
 3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	WEST RUTLAND	Bridge No.	XX
Highway No.	CLARENDON AVE.	Log Sta.	
		Surv. Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
ABUTMENT 2 PLAN AND ELEVATION			
Designed By	L. HARDEN	Drawn by	Wm WEATHERBY
Checked By	M. OLSTAD	Date	4/2002
		Bridge Design Supervisor	M. OLSTAD
		Date	4/2002
PROJECT	WEST RUTLAND	PROJECT NO.	ST WALK (III)
I.G.C. Info.		Bridge Sheet No. BRI08	
		Sheet 10 OF 12	

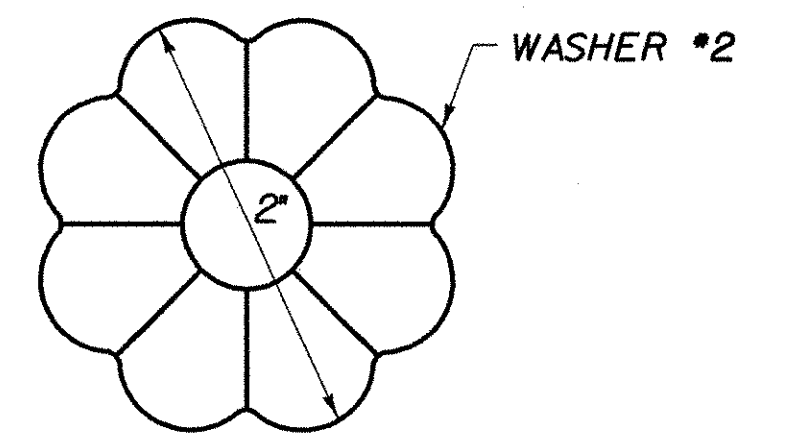
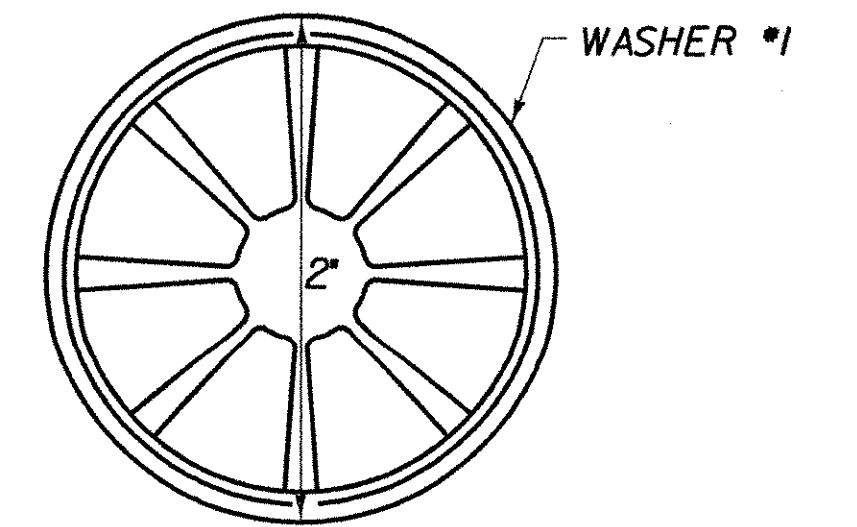
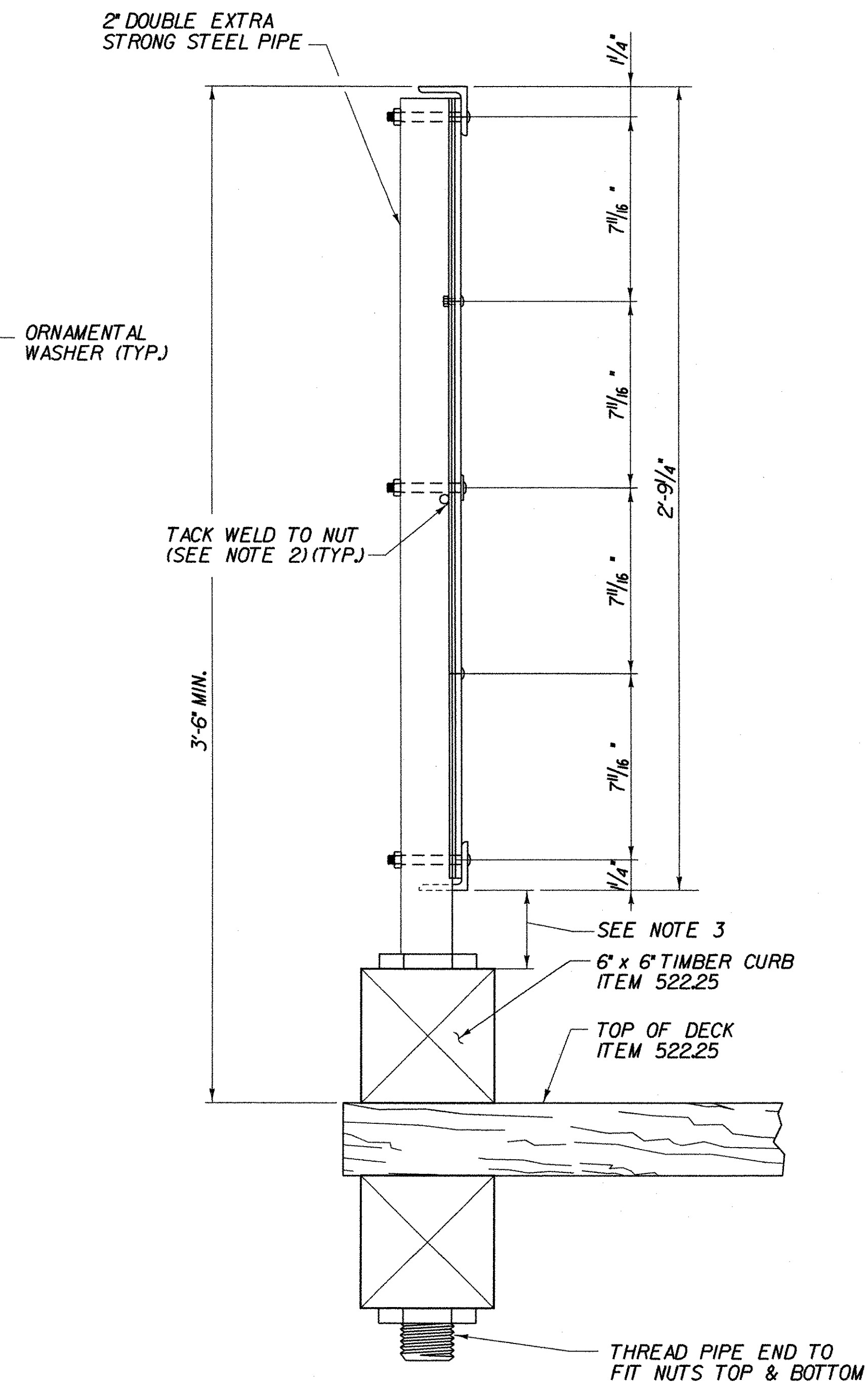
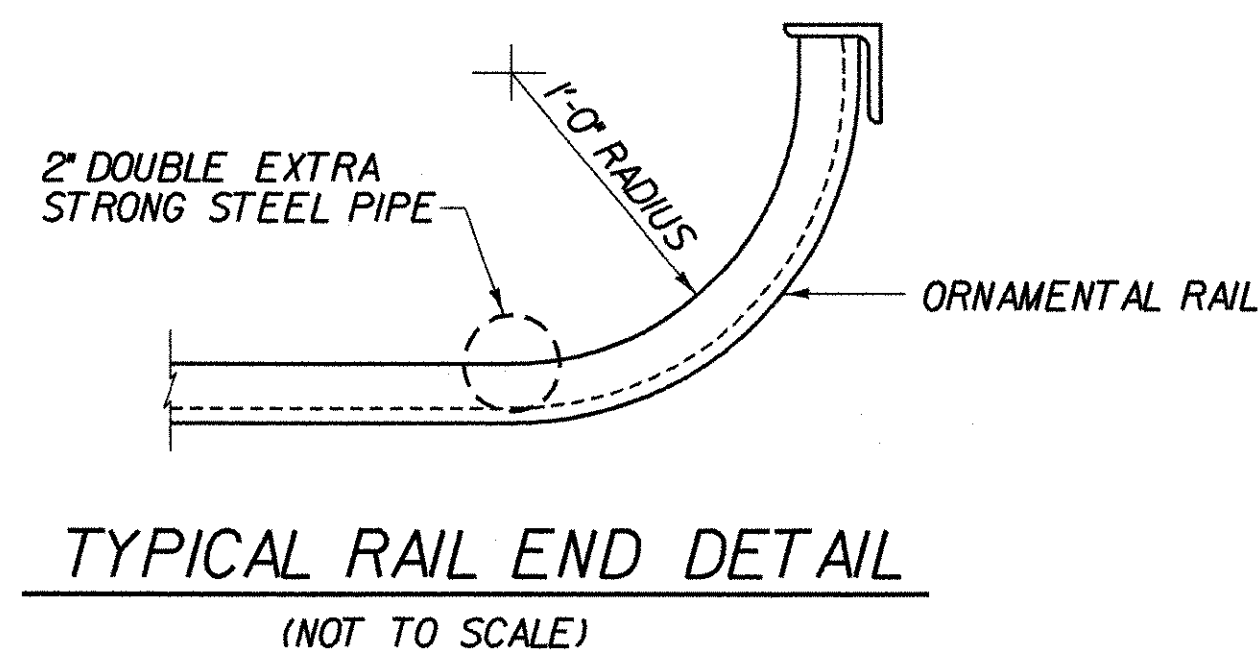
CHA CLOUGH, HARBOUR & ASSOCIATES LLP
 ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
 110 WILKINS CIRCLE ALBANY, NEW YORK, 12208

FILE NAME: s:\0224\NMSTN\15\ABUT2.PLT
 DATE/TIME: 11/01/02
 USER: z2467



NOTES:

1. ALL MATERIAL TO BE AASHTO M270 GRADE 36. PAID FOR UNDER ITEM 525J5.
2. RODS SHALL BE LOCATED TO PREVENT NUT ROTATION
3. THE VERTICAL OPENING BELOW THE BOTTOM ANGLE SHALL NOT EXCEED 6".



ORNAMENTAL WASHERS

(NOT TO SCALE)

NOTES:

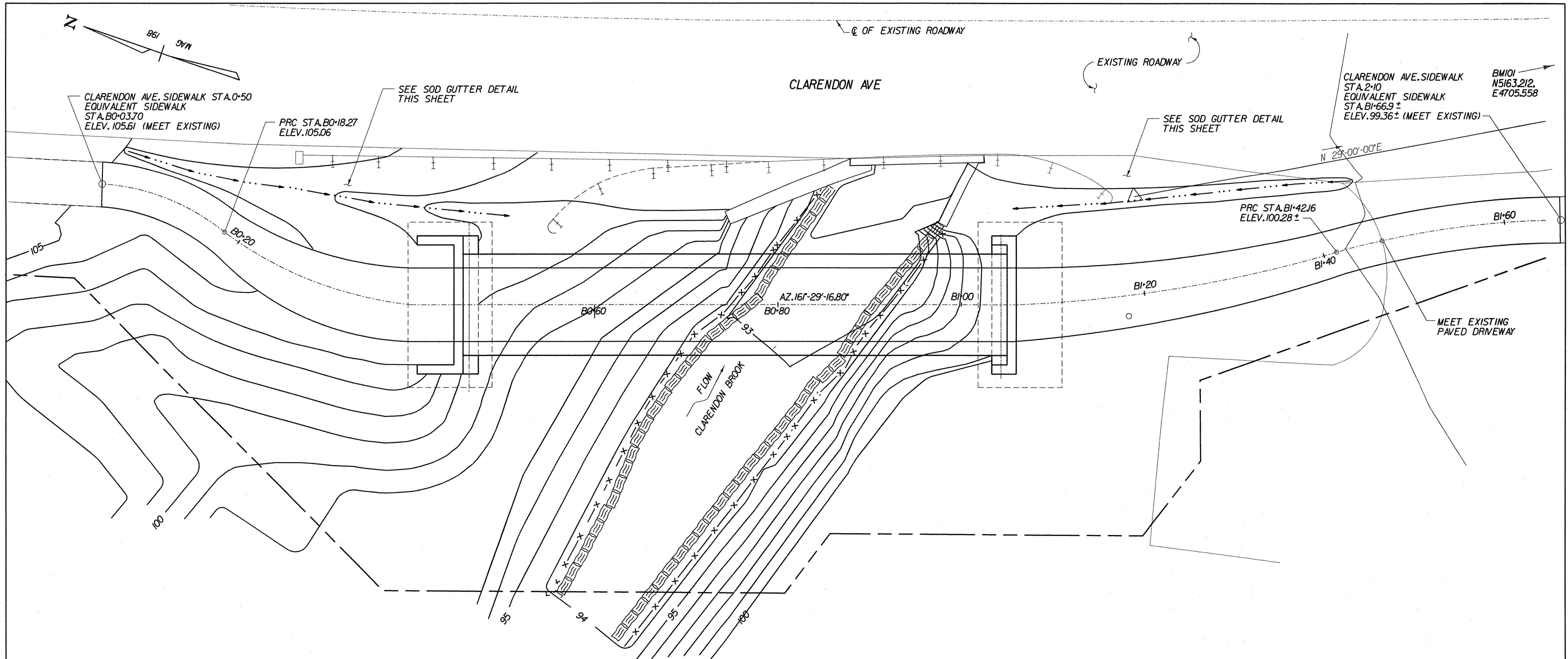
1. USE WASHER #1 AS A FIRST CHOICE FOR AN ORNAMENTAL WASHER AND #2 WASHER AS A SECOND CHOICE.
2. ONE WASHER STYLE WILL BE USED THROUGHOUT THE PROJECT.
3. ORNAMENTAL WASHERS SHALL BE CAST IRON AND COST INCLUDED IN THE RAILING ITEM.

STATE OF VERMONT AGENCY OF TRANSPORTATION

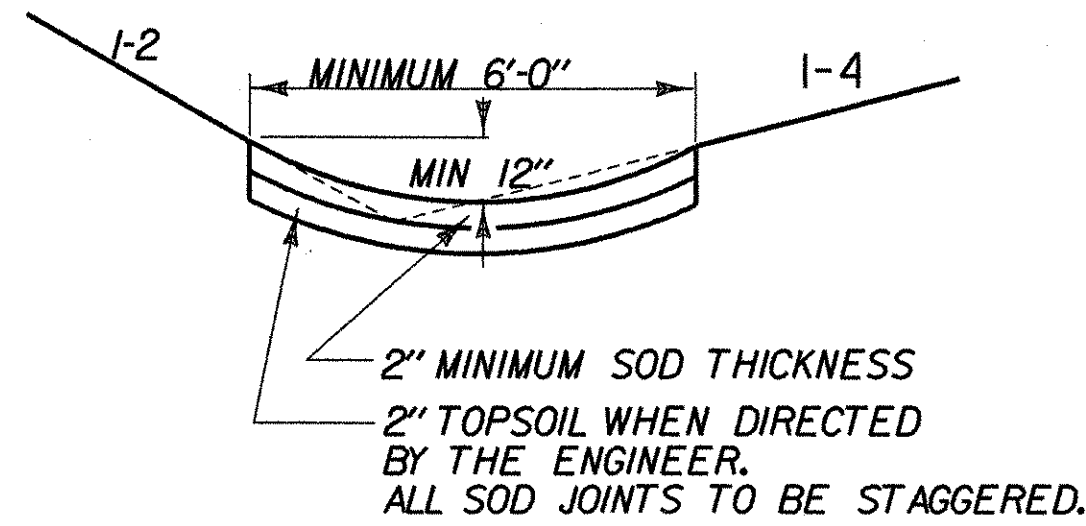
Town Of	WEST RUTLAND	Bridge No.	XX
Highway No.	CLARENDON AVE.	Log Sta.	
		Surv. Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
RAILING DETAILS			
Designed By	L. HARDEN	Drawn by	Wm. WEATHERBY
Checked By	Date	Bridge Design Supervisor	Date
M. OLSTAD	4/2002	M. OLSTAD	4/2002
PROJECT	WEST RUTLAND	PROJECT NO.	ST WALK (III)
L&C Info.			
Bridge Sheet No. BRI09		Sheet II OF 12	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
WINNERS CIRCLE ALBANY, NEW YORK, 12205

FILE NAME: \\10224\ADMIN\10224\DRN_PLAN.dwg
DATE/TIME: 11/01/02
USER: 2467



PLAN
SCALE 1" = 5'-0"
5 0 5

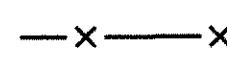


SODDING DETAIL
(NOT TO SCALE)

LEGEND



HAY BALES FOR EROSION CONTROL, ITEM 651.26

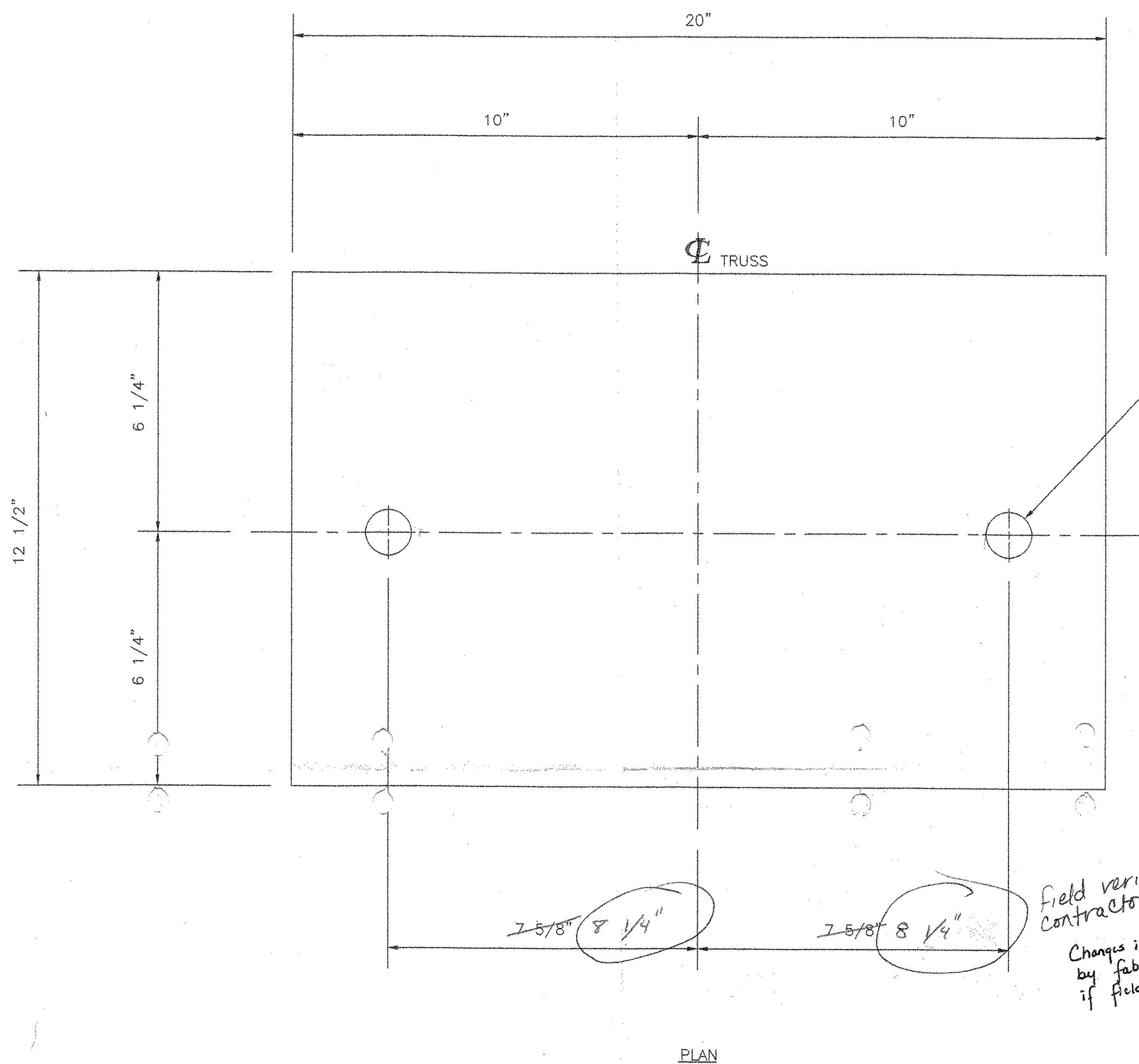


GEOTEXTILE FOR SILT FENCE - ITEM 649.51

STATE OF VERMONT
AGENCY OF TRANSPORTATION

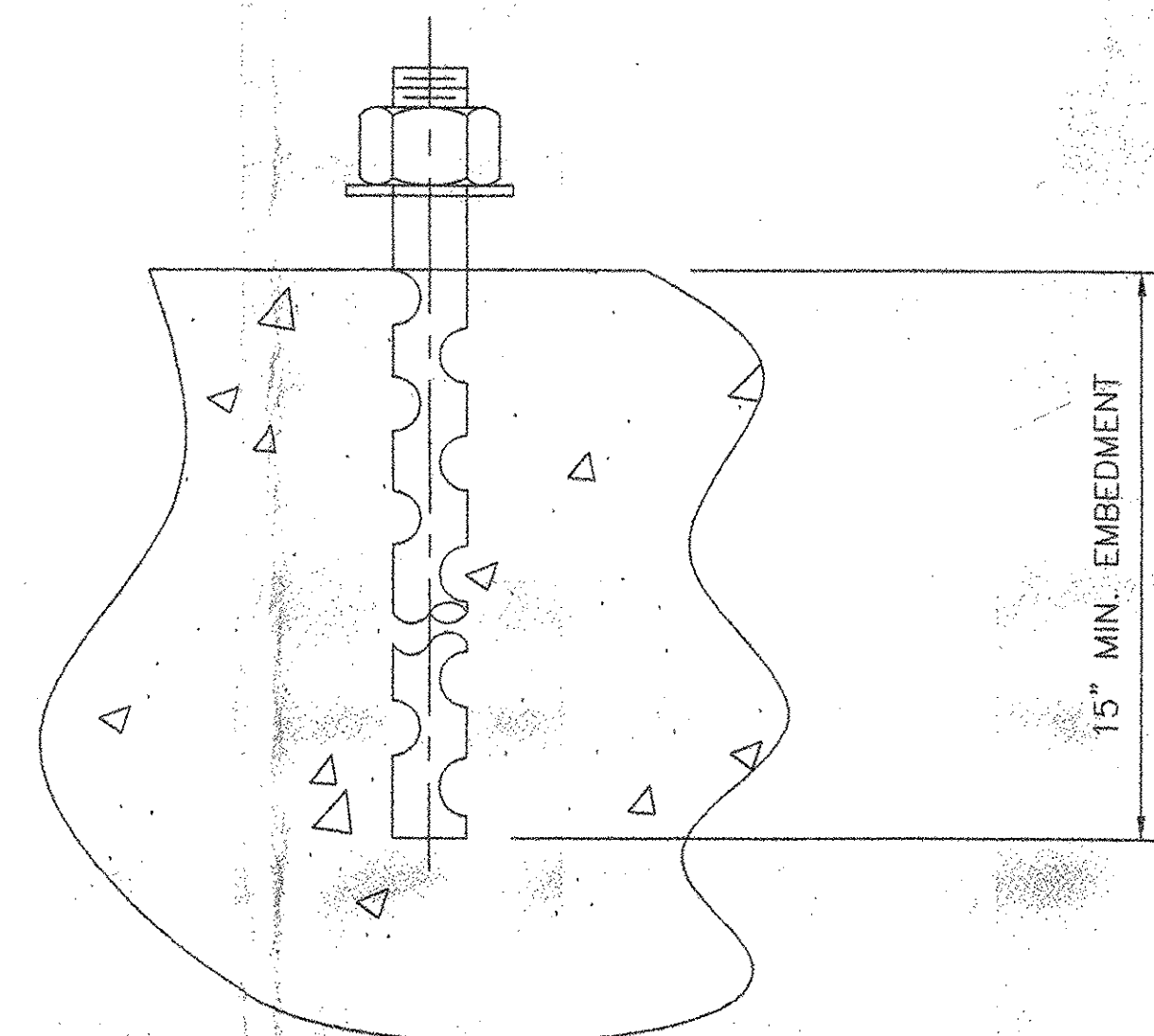
Town of	WEST RUTLAND	Bridge No.	XX
Highway No.	CLARENDON AVE.	Log Sta.	
		Surv. Sta.	
PEDESTRIAN BRIDGE OVER CLARENDON BROOK			
DRAINAGE & TEMPORARY EROSION CONTROL			
Designed By	L. HARDEN	Drawn by	Wm. WEATHERBY
Checked By	M. OLSTAD	Date	4/2002
		Bridge Design Supervisor	M. OLSTAD
		Date	4/2002
PROJECT	WEST RUTLAND	PROJECT NO.	ST WALK (1)
I.G.C. Info.			
Bridge Sheet No. BR110		Sheet 12 OF 12	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
11 WINNERS CIRCLE ALBANY, NEW YORK, 12205



NOTE:
THE CONTRACTOR TO VERIFY ALL DIMENSIONS, THICKNESS, MATERIALS & NOTES.

1 1/8" Ø HOLE FOR
1" Ø ANCHOR BOLT



ANCHOR BOLT DETAIL

N.T.S.

1" X 20" LONG ASTM A36 SWEDGED ANCHOR
BOLT WITH 5" OF THREADS ONE END,
ONE ASTM A563 HEAVY HEX NUT &
ONE ASTM F436 WASHER. ALL GALVANIZED

MATERIAL:

STEEL - ASTM A709 GR36 ZINC METALIZED
ELASTOMER - AASHTO 50 DUROMETER GRADE 3 NEOPRENE

NOTES:

1. BEARINGS SHALL BE SHIPPED IN DUST & MOISTURE PROOF COVERS FOR PROTECTION DURING TRANSIT & STORAGE.
2. ALL STEEL COMPONENTS SHALL BE METALIZED AS PER SECTION 531.04(b) & 506.15. AFTER THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED PRIMER AS SPECIFIED IN SUBSECTION 506.15.
3. PRIOR TO METALIZING, ALL CORNERS & EDGES OF STEEL PLATES SHALL BE GROUNDED TO A 1/16" RADIUS.
4. LOCATION OF FABRICATION PLANT - 70 SOUTH ST., WALPOLE, MA 02081
5. COSMEC INC. REPRESENTATIVE - MR. MATT McANDREWS (508-668-6600)

☐ NO EXCEPTION TAKEN
☐ REJECTED
☒ MAKE CORRECTIONS NOTED
☐ REVERSE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE COMPARED AND CORRELATED AT THE JOB SITE. FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION COORDINATION OF THIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

CLOUGH HANCOCK & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
STATE OF VERMONT

DATE: 6/23/03

RECEIVED

OK'D BY: HH OK'D BY: aw

JUN 09 2003

RESUBMIT: aw APPROVED: aw As noted
BY: aw DATE: 6/26/03

SOLE PLATE

PLAIN ELASTOMERIC PAD

FRONT ELEVATION

TYPE - E.P.

QUANTITY - 4

STATE OF VERMONT

AGENCY OF TRANSPORTATION

PROJECT: WEST RUTLAND
PROJECT NO.: ST. WALK (II)
PEDESTRIAN BRIDGE OVER CLARENDON BROOK
HIGHWAY NO.: CLARENDON AVE.
TOWN OF WEST RUTLAND

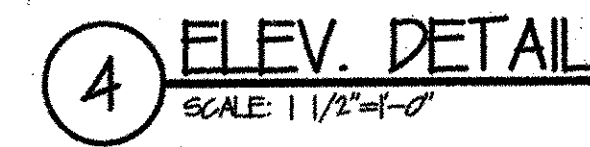
COSMEC, INC.

70 SOUTH STREET
WALPOLE, MA. 02081

SCALE: 1/2" = 1" DRAWN BY: NH CHECKED BY: MCM
DATE: 5.23.03 DATE: 5.23.03

PLAIN ELASTOMERIC BEARINGS

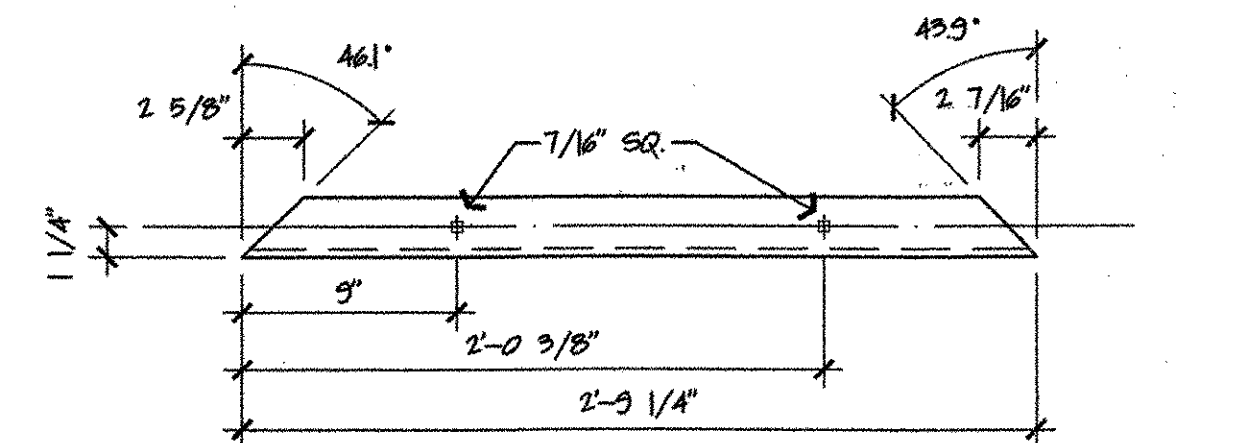
CUSTOMER: AUSTIN CONSTRUCTION INC. S.O. NUMBER: 59802 DRAWING NUMBER: 3876 REV.



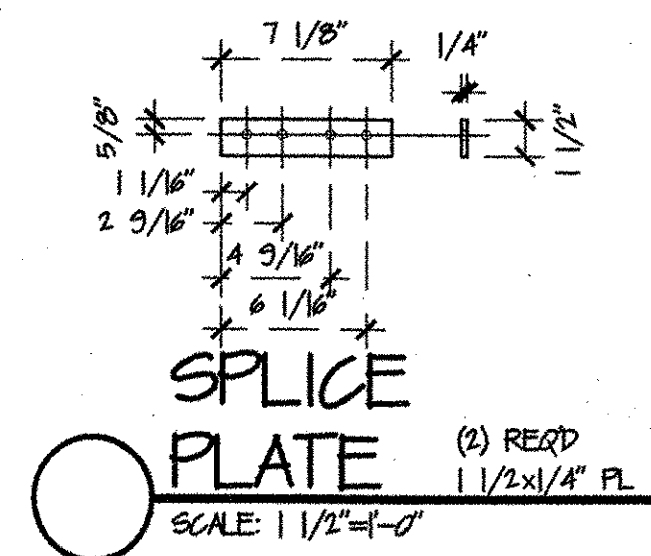
REVISONS			REMARKS		
ONE PRUYNS ISLAND DR. GALLS FALLS, N.Y. 12801			RIVERSIDE FAB, INC.		
			PHONE # (1-518) 798-3533 FAX # (1-518) 798-1711		
DATE	7/31/03	PROJECT	WEST RUTLAND ST WALK (II)		
DRAWN BY	CCE	LOCATION	PEDESTRIAN BRIDGE OVER CLARENDON BROOK		
CHK'D BY			WEST RUTLAND, VT OFF VT 133		
HOUES		CUSTOMER	STATE OF VERMONT, AGENCY OF TRANSPORTATION		
BOLTS	A325	ARCHITECT	CLOUGH HARBOUR & ASSOC. LLP		
POINT	AS NOTED	JOB NO.	RFC 598		
SCALE		SHEET NAME	INSIDE ELEVATION & PLAN , RAILING		
			PRINT RECORD		
			DATE	NO.	
			DRAWING NUMBER		E1

PROJECT PED. BRIDGE - W. RUTLAND RFC./RT. RFC 598
BILL OF MATERIAL ☐ CUTTING LIST ☐ SHIP NOTICE ☐
RECD. BY _____ DATE _____

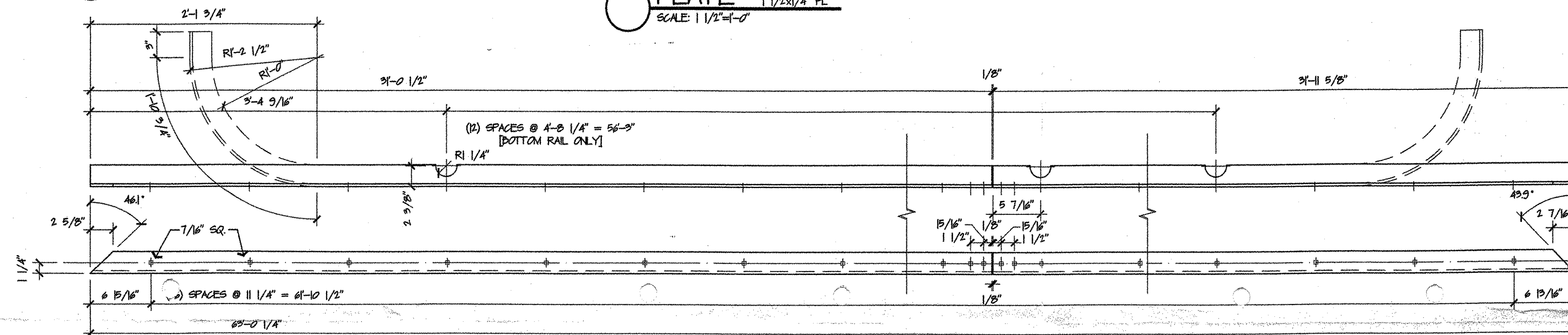
QTY.	MARK	DESCRIPTION	LENGTH		REMARKS
			FT.	IN.	
130	B1A	BAR 1 'A' 1x1/4"	3	2 1/2	ROUND & SQ HOLES
4	B1B	BAR 1 'B' 1x1/4"	2	6 11/16	ROUND & SQ HOLES
4	B1C	BAR 1 'C' 1x1/4"	1	0	
130	B2A	BAR 2 'A' 1x1/4"	3	5	
4	B2B	BAR 2 'B' 1x1/4"	2	7 7/8	
4	B2C	BAR 2 'C' 1x1/4"	1	0 7/16	
4	-	TOP & BOTTOM RAIL	63	0 1/4	L 2 1/2x2 1/2x5/16"; SQ HOLES
4	-	END RAIL	2	9 1/4	L 2 1/2x2 1/2x5/16"; SQ HOLES
26	-	2" SCH XXS POST	4	6	4" OF 2 1/4" THD ONE END & 3 HOLES
2	-	1 1/2"x1/4" SPLICE PLATE	-	7 1/8	
13	N1	2 1/4" NUT	-	-	BORE 2 7/16" & SPLIT IN HALF
13	N2	2 1/4" NUT	-	-	SPLIT IN HALF
26	-	2 1/4" WASHER	-	-	
272	-	3/8" & CARRIAGE BOLT	-	1	w/ NUT & WASHER
224	-	3/8" & CARRIAGE BOLT	-	1 1/4	w/ NUT & WASHER
54	-	3/8" & CARRIAGE BOLT	-	1 1/2	w/ NUT & WASHER
54	-	3/8" & CARRIAGE BOLT	-	4	w/ (2) NUTS & WASHER
26	-	3/8" & CARRIAGE BOLT	-	4 1/4	(2) NUTS & WASHER
134	-	ORNAMENTAL "WASHER"	KING ARCH. METAL #45-084-R - DRILL 5/8" FOR CARRIAGE BOLT		



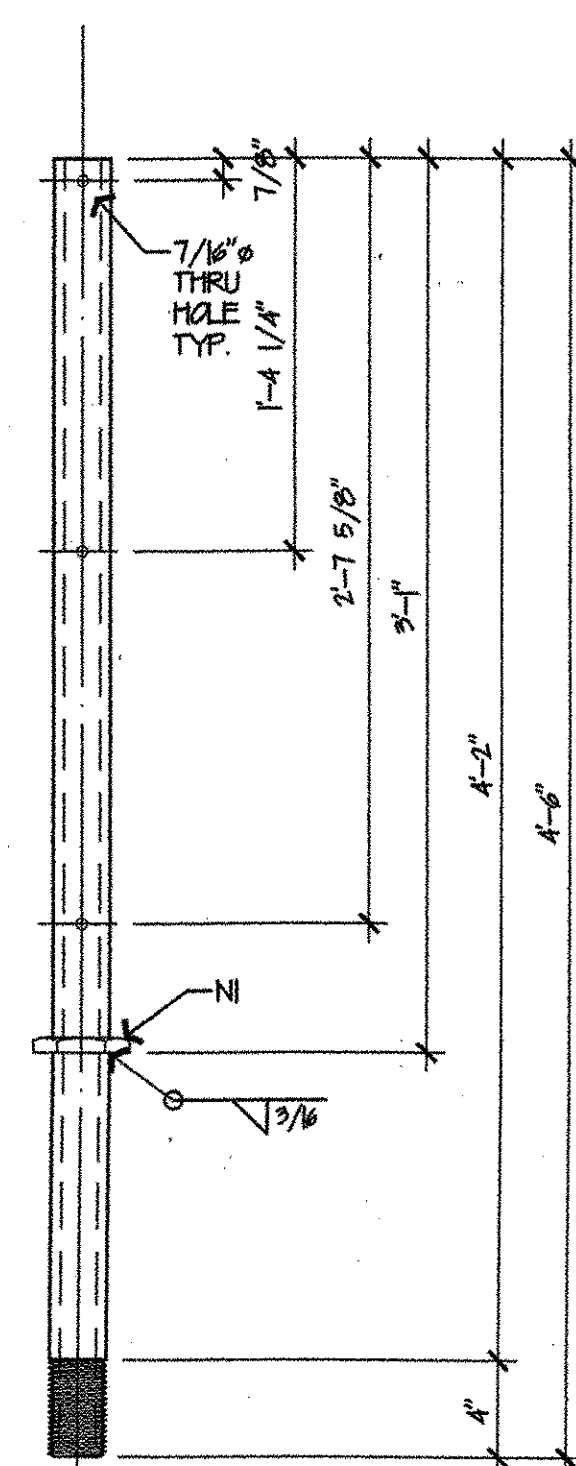
3 END RAIL (A) REQD
L 2 1/2" x 2 1/2" x 5/16
SCALE: 1 1/2" = 1'-0"



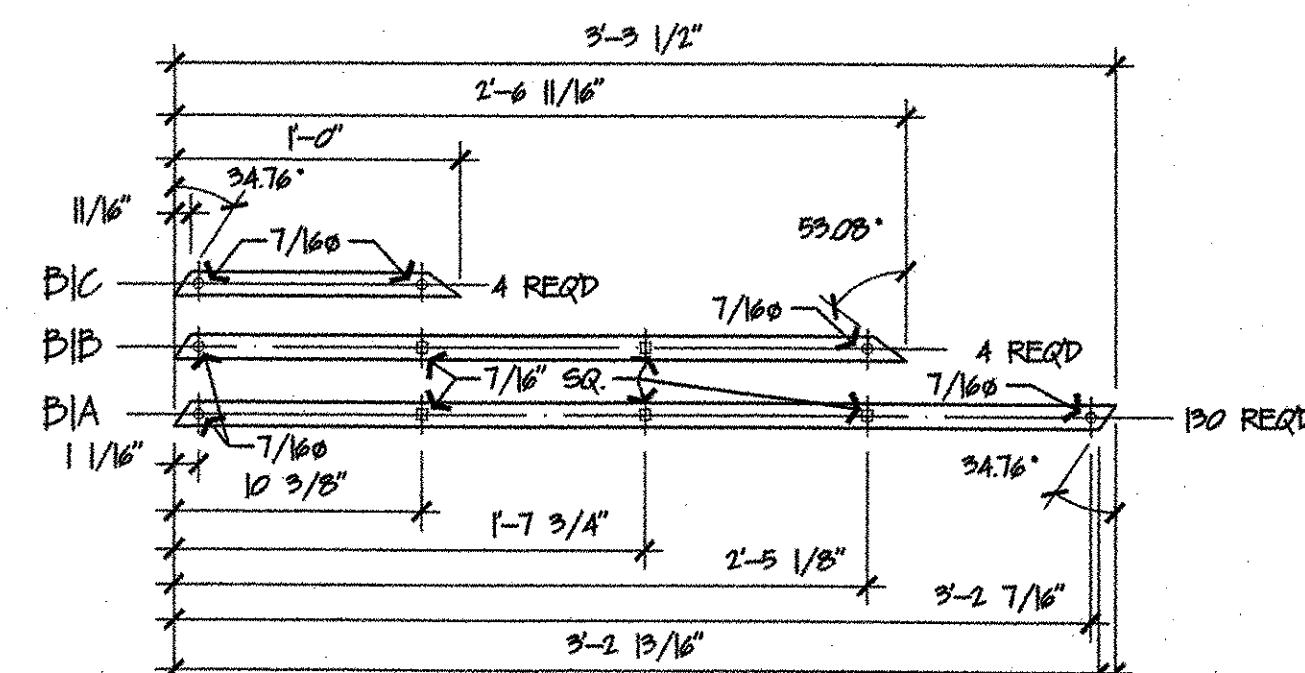
SPlice
PLATE (2) REQ'D
1 1/2 x 1/4" PL
SCALE: 1 1/2" = 1'-0"



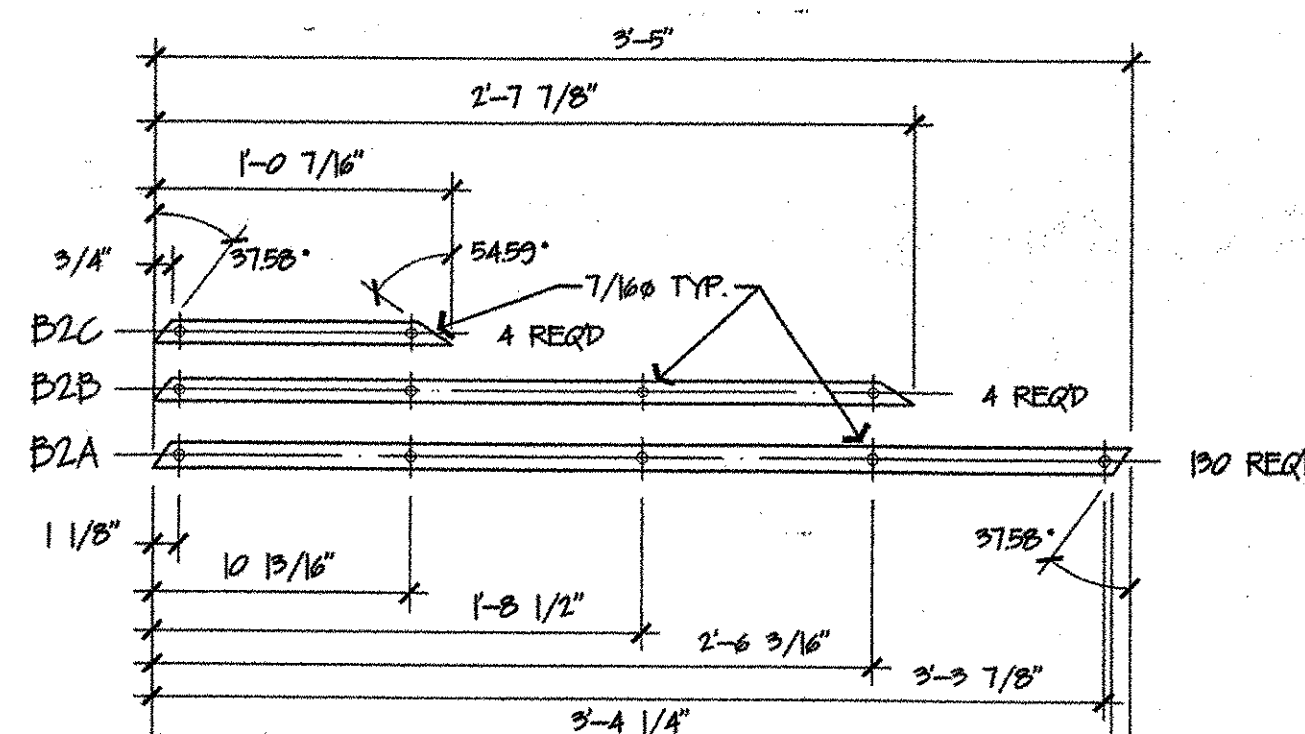
2 T.O.F. & BOT. RAIL BOT. RAIL SHOWN, (2) EA. REQ'D
L 2 1/2" x 2 1/2" x 5/16"
SCALE: 1 1/2" = 1'-0"



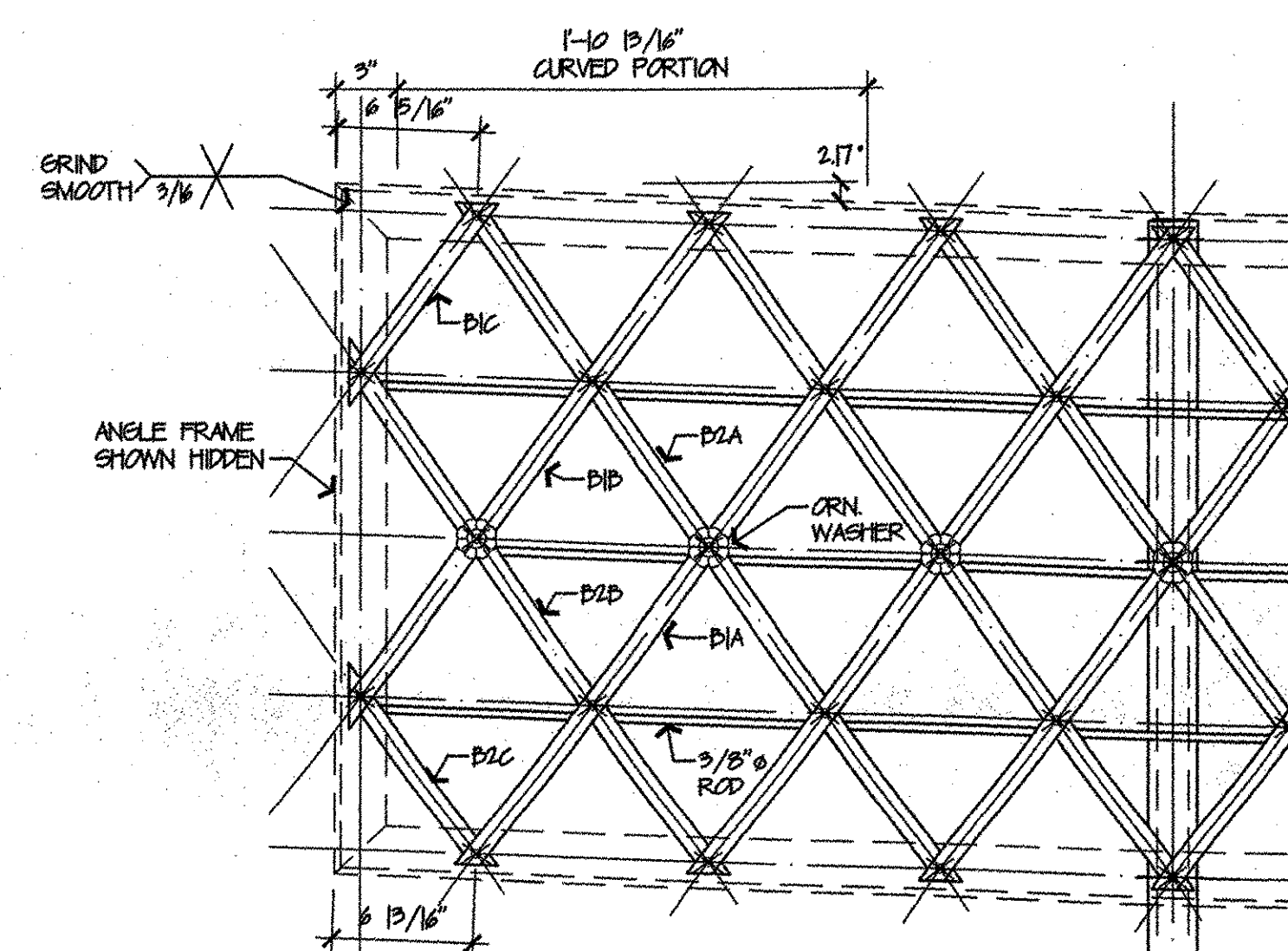
① POST (26) REQD
2" SCH XYS
SCALE: 1 1/2" = 1'-0"



5 BAR | |x| 4" BAR 11/16"
SCALE: 1/2" = 1'-0"



4 BAR 2
SCALE: 1 1/2" = 1'-0"
1x1/4" BAR



6 TYP. END
SCALE: 1 1/2" = 1'-0"

☒ NO EXCEPTION TAKEN ☐ MAKE CORRECTIONS NOTED
☐ REJECTED ☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE
GENERAL DESIGN CONCEPT OF THE PROJECT AND GENERAL
COMPLIANCE WITH THE INFORMATION GIVEN IN THE
CONTRACT DOCUMENTS. ANY ACTION SHOWING IS SUBJECT
TO THE REQUIREMENTS OF ANY PLANS AND SPECIFICATIONS.
THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH
MAY BE CONFIRMED AND CORRELATED AT THE JOB SITE.
FABRICATION PROCESSES
CONSTRUCTION, COORDINATION OF ISS WORK WITH THAT
PERFORMED BY OTHER TRADES AND THE SATISFACTORY
PERFORMANCE OF HIS WORK.

CLOUGH HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
& MANAGEMENT ARCHITECTS

JATE 8/25/05

[illegible]

RECEIVED
CK'D BY LH OK'D BY SES
AUG 14 2003
RESUBMIT _____ APPROVED ☒ WITH CHANGES
NOTED IN RED
BY als DATE 8/20/03

REVISIONS		REMARKS			
ONE PRUYN'S ISLAND DR. GLENS FALLS, N.Y. 12601		RIVERSIDE FAB, INC.		PHONE # 1(518) 798-3533 FAX # (518) 798-1711	
DATE 7/31/03		PROJECT WEST RUTLAND ST WALK (11) PEDESTRIAN BRIDGE OVER CLARENDON BROOK		PRINT RECORD	
DRAWN BY CCE		LOCATION WEST RUTLAND, VT OFF VT 133		DATE	NO.
CHK'D BY		CUSTOMER STATE OF VERMONT, AGENCY OF TRANSPORTATION			
HOLES		ARCHITECT CLOUGH HARBOUR & ASSOC. LLP			
BOLTS A325		JOB NO. RFC 598			
PAINT		SHEET NAME PIECE DWG RAILING		DRAWING NUMBER	
SCALE AS NOTED				F1	