STANDARD SHEETS

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	6/1/94
C-1	CURBS, BITUMINOUS CONCRETE SIDEWALKS GRANITE SLOPE EDGING, VERTICAL GRANITE CURB PRECAST REINFORCED CONCRETE CURB CAST IN PLACE CONCRETE CURB BITUMINOUS CONCRETE CURB, TREATED TIMBER CURB	1/3/00
E-100	CONSTRUCTION APPROACH SIGNS	1/6/97
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	1/6/97
E-101	CONSTRUCTION SIGN DETAILS	5/30/03
E-102	CONSTRUCTION SIGN DETAILS	6/30/03
E-102A	CONSTRUCTION SIGN DETAILS	8/8/95
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	8/8/95
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	6/30/03
E-107A	BREAKAWAY BARRICADE DETAILS	8/8/95
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	8/8/95
E-193	PAVEMENT MARKING DETAILS	8/18/95
G-1	STEEL BEAM GUARDRAIL WITH STEEL POSTS STEEL BEAM GUARDRAIL WITH WOOD POSTS	1/03/00
G-1D	STEEL BEAM GUARDRAIL APPROACH END TERMINAL STEEL BEAM GUARDRAIL TRAILING END TERMINAL ANCHOR FOR STEEL BEAM RAIL STEEL BEAM MEDIAN BARRIER	1/03/00
G-18	PRECAST CONCRETE TEMPORARY TRAFFIC BARRIER	6/1/94
SB-R6-82	BRIDGE RAILING - HEAVY DUTY STEEL BEAM	1/6/95
T-1	TEMPORARY EROSION CONTROL DETAILS	6/1/94
T-2	TEMPORARY EROSION CONTROL DETAILS	6/1/94

STATE OF VERMONT
AGENCY OF TRANSPORTATION

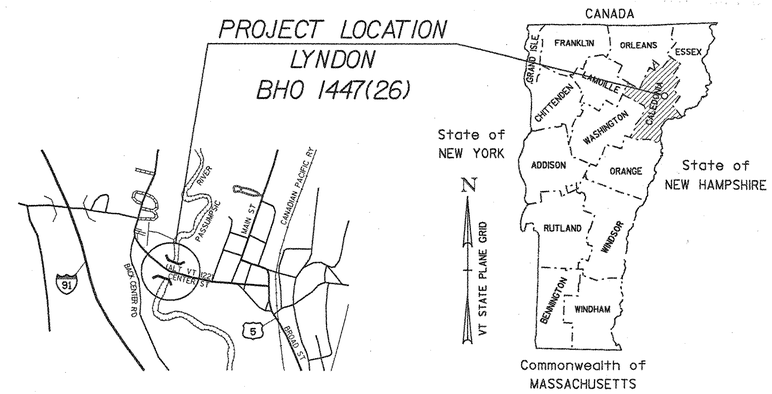
PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF LYNDON
COUNTY OF CALEDONIA
CENTER STREET (ALT VT 122) BRIDGE #2

CLASS II MAJOR COLLECTOR

PROJECT LOCATION: IN THE TOWN OF LYNDON ON CENTER STREET (ALT VT 122). BEGINNING AT A POINT ON CENTER STREET APPROXIMATELY 0.300 MILES EAST OF THE INTERSECTION OF BACK CENTER ROAD AND ALT VT 122, AND PROCEEDING SOUTHERLY ALONG CENTER ST. FOR 0.052 MILES.

PROJECT DESCRIPTION: REPLACEMENT OF EXISTING SUPERSTRUCTURE WITH A REINFORCED CONCRETE DECK COMPOSITE WITH NEW ROLLED BEAM GIRDERS, CONSTRUCTION OF APPROACH SLABS AND NEW BEAM SEATS, AND FULL ROADWAY APPROACH WORK.

LENGTH OF BRIDGE	= 172.00 FEET	=	0.033 MILES
LENGTH OF ROADWAY	= 100.00 FEET	=	0.019 MILES
LENGTH OF PROJECT	= 272.00 FEET	=	0.052 MILES



LOCATION MAP
NOT TO SCALE

RECORD PLANS

CONTRACTOR: AUTIN CONSTRUCTION, INC. - CONCORD, VT

RESIDENT ENGINEER: DOUG BUMPS

CONSTRUCTION BEGAN: APRIL 15, 2004

CONSTRUCTION COMPLETE: JULY 6, 2005

RECORD PLANS BY: DOUG BUMPS & CHIP PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

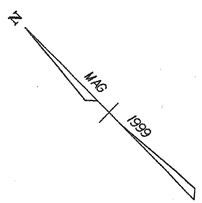
BY _____ RESIDENT ENGINEER

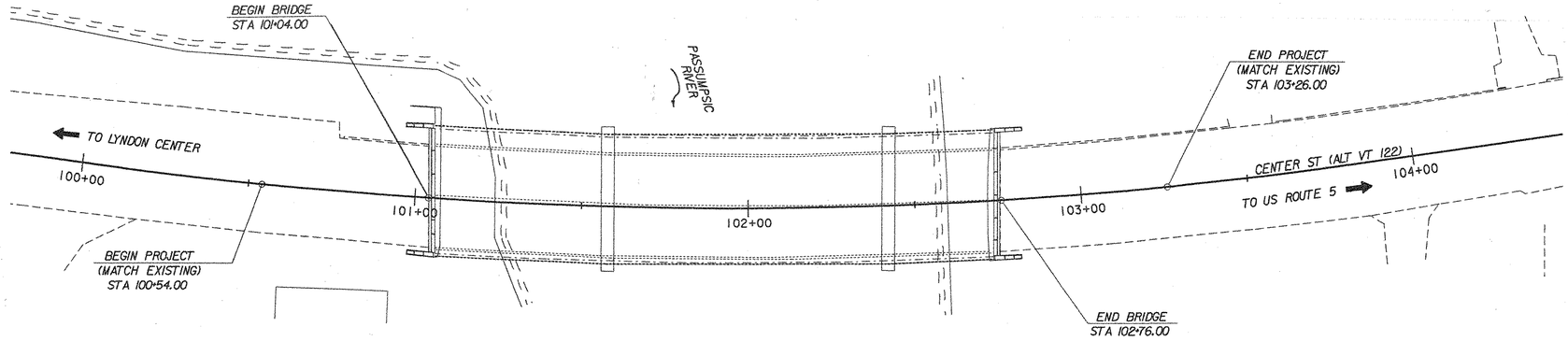
DATE 3/8/06

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.

INDEX OF SHEETS

1. TITLE SHEET
2. PRELIMINARY INFORMATION SHEET
3. QUANTITY SHEET
4. ROADWAY LAYOUT AND PAVEMENT MARKING
5. PROFILE
6. DETOUR AND SIGNING PLAN
7. TEMPORARY TRAFFIC SIGNAL PLAN - 1
8. TEMPORARY TRAFFIC SIGNAL PLAN - 2
9. TEMPORARY TRAFFIC SIGNAL PLAN - 3
10. EROSION CONTROL PLAN
11. PLAN AND ELEVATION
12. GENERAL NOTES
13. DECK REINFORCING - 1
14. DECK REINFORCING - 2
15. FRAMING PLAN
16. BEAM DETAILS - 1
17. BEAM DETAILS - 2
18. BEARING DETAILS - 1
19. BEARING DETAILS - 2
20. BEARING DETAILS - 3
21. EXPANSION JOINT DETAILS - 1
22. EXPANSION JOINT DETAILS - 2
23. APPROACH SLAB DETAILS
24. DIAPHRAGM DETAILS
25. MISCELLANEOUS DETAILS
26. ABUTMENT REMOVAL DETAILS
27. ABUTMENT DETAILS
28. PIER REMOVAL DETAILS
29. PIER DETAILS
30. REINFORCING STEEL SCHEDULE
31. CIP CONCRETE BRIDGE RAILING DETAILS - 1
32. CIP CONCRETE BRIDGE RAILING DETAILS - 2
33. ROADWAY SECTIONS - 1
34. ROADWAY SECTIONS - 2





PLAN
SCALE 1" = 20'-0
20 0 20

CONVENTIONAL SYMBOLS

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

STATE OF VERMONT
TIMOTHY L. GRANT
NO. 7845
Structural
LICENSED
PROFESSIONAL ENGINEER
10/31/01

DATUM
VERTICAL ASSUMED
HORIZONTAL ASSUMED

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROJECT DEVELOPMENT.

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.

McFARLAND-JOHNSON, INC.

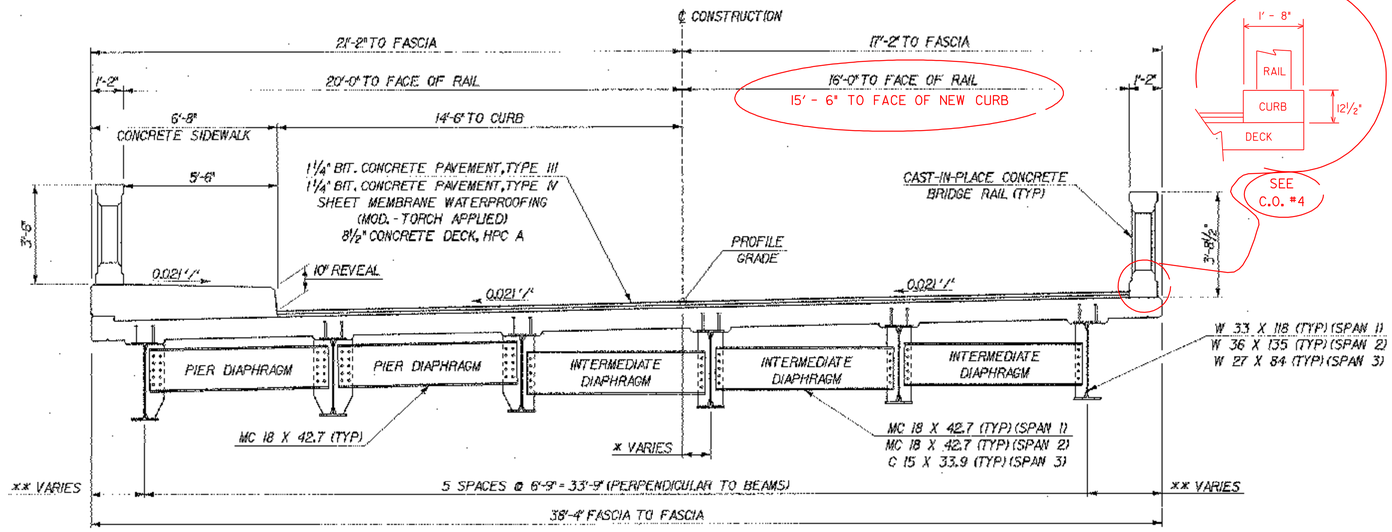
APPROVED _____ DATE 11/17/03
ARTHUR SANBORN
MUNICIPAL PROJECT MANAGER

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 11/25/03

PROJECT NAME : LYNDON
PROJECT NUMBER : BHO 1447 (26)

SHEET 1 OF 34 SHEETS

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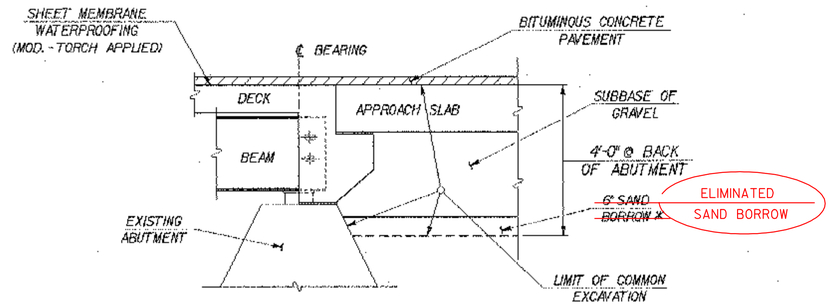


TYPICAL BRIDGE SECTION

SCALE: ⅜" = 1'-0"

(* POSITION OF BEAMS WITH RESPECT TO CENTERLINE CONSTRUCTION VARIES)

(** CURB AND SIDEWALK OVERHANG WIDTHS VARY)

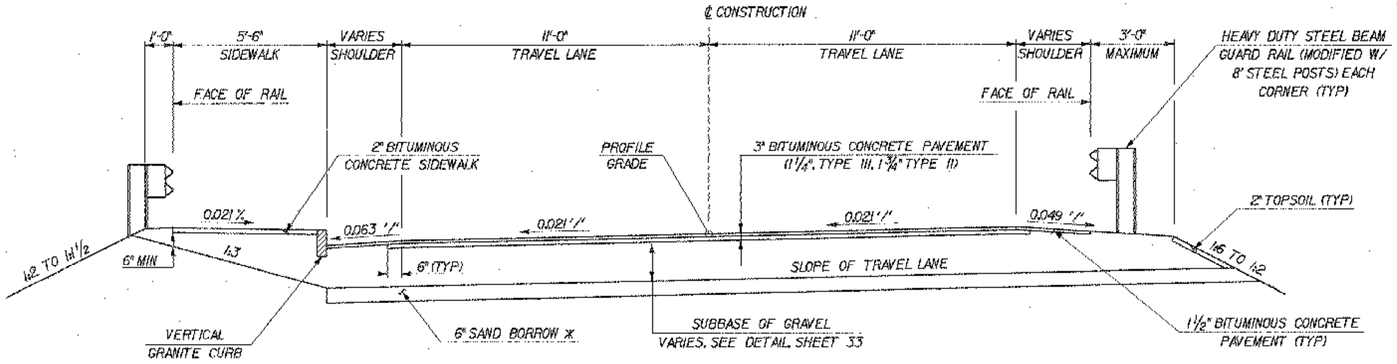


MATERIAL ITEM	TOLERANCE
PAVEMENT	± ¼" TOTAL THICKNESS
SUBBASE OF GRAVEL	± 1"
SAND BORROW *	± 1"

* 6" SAND BORROW TO BE USED ONLY IF SO DIRECTED BY THE RESIDENT ENGINEER.

TYPICAL ABUTMENT EARTHWORK SECTION

SCALE: ½" = 1'-0"



TYPICAL ROADWAY SECTION

SCALE: ⅜" = 1'-0"

* 6" SAND BORROW TO BE USED ONLY IF SO DIRECTED BY THE RESIDENT ENGINEER.

EXISTING STRUCTURE DATA

STRUCTURE TYPE: CONCRETE ABUTMENT WITH REINFORCED CONCRETE DECK, ON ROLLED STEEL BEAMS. THE BRIDGE RAIL IS AN ALUMINUM SPINDLE TYPE, SET ON STEEL POSTS, BUILT IN 1961.

OVERALL LENGTH: 172 FEET INVENTORY RATING: 24.7 TONS

OVERALL DECK WIDTH: 38'-8"

SPAN LENGTH(S) CENTER TO CENTER OF BEARING: SPAN 1: 51'-11 15/16", SPAN 2: 81'-11 7/8", SPAN 3: 31'-11 15/16"

CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 170'-0"

DISPOSITION OF STRUCTURE: REMOVE EXISTING CONCRETE DECK, RAILS, AND STEEL BEAMS. THE EXISTING ABUTMENTS AND PIERS ARE TO BE MODIFIED AS SHOWN. STEEL BEAMS AND RAIL TO BE DISPOSED OF BY CONTRACTOR.

NEW STRUCTURE DATA

STRUCTURE GEOMETRY

STRUCTURE TYPE: NEW STEEL ROLLED BEAMS WITH REINFORCED CONCRETE DECK.

OVERALL LENGTH: 172'-0" (MEASURED ALONG CENTERLINE CONSTRUCTION)

OVERALL DECK WIDTH: 38'-4".

SPAN LENGTH(S) CENTER TO CENTER OF BEARING: SPAN 1: 51'-11 15/16", SPAN 2: 81'-11 7/8", SPAN 3: 31'-11 15/16"

CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 170'-0"

ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? NO

HYDRAULIC DATA

NO CHANGE FROM EXISTING STRUCTURE.

DESIGN CRITERIA

1. DESIGN LIVE LOAD AASHTO: HS 25
2. DESIGN SPAN: 52-82-32
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: N/A ON LEDGE: N/A
4. ALLOWABLE LOAD FOR PILING: N/A TYPE: N/A ESTIMATED LENGTH: N/A
5. STRUCTURAL STEEL AASHTO GRADE: M270 GR50W
6. REINFORCING STEEL GRADE: 60
7. CONCRETE HPC A f'c = 4000 PSI
   CONCRETE HPC B f'c = 3500 PSI

TRAFFIC MAINTENANCE

TRAFFIC TO BE MAINTAINED BY DETOUR

LOAD FACTOR LOAD RATING (TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY A=2.17; B=1.00	40	55					
POSTED A=1.55; B=1.40	56	76	91		70	72	83
OPERATING A=1.30; B=1.67		91	108	129	83	86	

STRENGTH RF = $\frac{\phi M_N - 1.3\,M_{DL}}{A \times M_{LL+I}}$ SERVICEABILITY RF = $B\left[\frac{.95\,F_y S_{LL+I} - M_{DL}\frac{S_{LL+I}}{S_{DL}} - M_{SDL}\frac{S_{LL+I}}{S_{SDL}}}{1.67\,M_{LL+I}}\right]$

TRAFFIC DATA
ALT VT 122 BR 2

2001 ADT	3,030 VPD	D%	50%
2021 ADT	4,030 VPD	T%	5.0%
2001 ADTT	150 VPD	DESIGN SPEED	35 MPH
2021 ADTT	200 VPD	18 KIP ESALS	(2 LANES)
2001 DHV	370 VPH	20 YR -	746,150
		40 YR -	1,671,144

McFARLAND-JOHNSON, INC.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER

PRELIMINARY INFORMATION SHEET

Designed By T.GRANT/S.MERRIAM	Drawn By S.DEUA/S.MERRIAM
Checked By T.GRANT/R.WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m\549103\6contz\238pl.dgn	
Bridge Sheet No.	Sheet 2 of 34

QUANTITIES

NO.	ITEM	UNIT	QUANTITY BREAKDOWN: SUPER STRUCTURE	ABUTMENT NO. 1	ABUTMENT NO. 2	PIER NO. 1	PIER NO. 2	APPROACH SLAB NO. 1	APPROACH SLAB NO. 2	EROSION CONTROL	ROADWAY	E & C	TOTAL
203.15	COMMON EXCAVATION	CY									380 ~~325~~		380 ~~325~~
203.31	SAND BORROW	CY									0 ~~70~~		0 ~~70~~
210.10	COLD PLANING - BITUMINOUS PAVEMENT	SY									360		360
301.15	SUBBASE OF GRAVEL	CY		POURED WITH CURTAIN WALLS AS CLASS A							330		330
404.65	EMULSIFIED ASPHALT	GWT	0 ~~0.63~~					0 ~~0.08~~	0 ~~0.07~~		0 ~~0.22~~		0 ~~1~~
406.25	BITUMINOUS CONCRETE PAVEMENT (PG 58-34)	TON	79					10	9		74		172
501.33	CONCRETE, HIGH PERFORMANCE CLASS A	CY	265.40 ~~240~~			21.76	24.25						265.40 ~~240~~
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CY		0 ~~1.5~~	0 ~~1.5~~	~~19.5~~	~~21.5~~	30.57 ~~30.5~~	30.58 ~~30.5~~				107.16 ~~105~~
506.50	STRUCTURAL STEEL (ROLLED BEAM)	LB	151450										151450
507.15	REINFORCING STEEL	LB				1180	1560						2740
507.16	DRILLING AND GROUTING DOWELS	LF				32	32						64
507.17	EPOXY COATED REINFORCING STEEL	LB	53626					3892	3892				61410
508.15	SHEAR CONNECTORS (2808 - 7/8" DIA. X 7")	LS	1										1
513.25	STRUCTURAL PAINTING, SHOP APPLIED (16 TONS)	LS	1										1
513.35	CONTAINMENT & ENVIRONMENTAL PROTECTION, SHOP	LS	1										1
513.40	SURFACE PREPARATION, SHOP (16 TONS)	LS	1										1
514.10	WATER REPELLENT	GAL	38	3.0	3.0	3.0	3.0						50
516.10	BRIDGE EXPANSION JOINT	LF	74.5 ~~74.5~~										74.5 ~~74.5~~
519.20	SHEET MEMBRANE WATERPROOFING (MOD. - TORCH APPLIED)	SY	552.3 ~~567~~					0 ~~69~~	0 ~~69~~				552.3 ~~705~~
525.50	CAST-IN-PLACE CONCRETE BRIDGE RAIL	LF	345					12	12				369
529.10	REMOVAL OF BRIDGE PAVEMENT	SY	585 ~~585~~										585 ~~585~~
529.20	PARTIAL REMOVAL OF STRUCTURE	EA	0 ~~1~~										0 ~~1~~
531.10	BEARING DEVICE ASSEMBLY	EA	36 ~~36~~										36 ~~36~~
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	HR									1		1
616.21	VERTICAL GRANITE CURB	LF									8		8
616.40	REMOVING AND RESETTING CURB	LF									95		95
618.15	BITUMINOUS CONCRETE SIDEWALK	TON									0 ~~6~~		0 ~~6~~
621.21	HEAVY DUTY STEEL BEAM GUARD RAIL (MODIFIED)	LF									174		174
621.60	ANCHOR FOR STEEL BEAM RAIL	EA									3		3
621.80	REMOVAL AND DISPOSAL OF GUARD RAIL	LF									138 ~~122~~		138 ~~122~~
621.81	REMOVAL AND DISPOSAL OF GUIDE POSTS	EA									2 ~~13~~		2 ~~13~~
621.90	TEMPORARY TRAFFIC BARRIER	LF									60 ~~60~~		60 ~~60~~
630.10	UNIFORMED TRAFFIC OFFICERS	HR									110		110
630.15	FLAGGERS	HR									60		60
631.10	FIELD OFFICE - ENGINEERS	LS										1	1
631.16	TESTING EQUIPMENT - CONCRETE	LS										1	1
631.17	TESTING EQUIPMENT - BITUMINOUS (MOD.)	LS										1	1
631.25	FIELD OFFICE TELEPHONE (N.A.B.I.)	LU										1	1
634.10	EMPLOYEE TRAINEESHIP	HR									568 ~~520~~		568 ~~520~~
635.10	MOBILIZATION	LS									1		1
641.10	TRAFFIC CONTROL	LS									1		1
646.40	DURABLE 4 INCH WHITE LINE	LF	344					40	40		320		744
646.41	DURABLE 4 INCH YELLOW LINE	LF	344					40	40		320		744
646.46	DURABLE 24 INCH STOP BAR	LF									58		58
646.66	TEMPORARY 24 INCH STOP BAR	LF									207 ~~165~~		207 ~~165~~
646.85	REMOVAL OF EXISTING PAVEMENT MARKINGS	SF									100 ~~310~~		100 ~~310~~
649.51	GEOTEXTILE FOR SILT FENCE	SY								140			140
651.15	SEED	LB								50			50
651.17	SEED- WINTER RYE	LB								50			50
651.18	FERTILIZER	LB								50			50
651.20	AGRICULTURAL LIMESTONE	TON								1			1
651.25	HAY MULCH	TON								1			1
651.26	HAY BALES FOR EROSION CONTROL	EA								20			20
651.35	TOPSOIL	CY									2		2
652.10	EROSION & SEDIMENT CONTROL PLAN	LS								1			1
652.20	MONITORING EROSION & SEDIMENT CONTROL PLAN	HR								16			16
652.30	FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN (N.A.B.I.)	LU								1			1
654.10	EROSION MATTING	SY								50			50
675.301	FLANGED CHANNEL SIGN POST	LF									43		43
675.50	REMOVING SIGNS	EA									3		3
675.60	ERECTING SALVAGED SIGNS	EA									3		3
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM (US 5 AT BACK CENTER ROAD)	EA									1		1
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM (BRIDGE AT MILLER RUN)	EA									1		1
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM (US 5 AT VT 114)	EA									1		1
678.42	TEMPORARY DETECTOR	EA									12		12

ITEMS ADDED BY CHANGE ORDER

C.O. #1
646.70 TEMPORARY LETTER OR SYMBOL - 118 EACH

C.O. #2
641.15 PORTABLE CHANGABLE MESSAGE BOARD - 1EACH (MOD.)

C.O. #3
529.20 PARTIAL REMOVAL OF STRUCTURE - 1EACH (MOD.)

C.O. #5
618.10 PORTLAND CEMENT CONCRETE SIDE WALK - 56 SY (5 INCH)

C.O. #6
516.10 BRIDGE EXPANSION JOINT - 61LF (ASPHALTIC PLUG JOINT)

C.O. #7
646.20 (4 INCH) WHITE LINE - 800 LF
646.21(4 INCH) YELLOW LINE - 800 LF

C.O. #8
514.10 WATER REPELLENT - 20 GAL (MOD. S.LANE)

C.O. #9
678.15 TRAFFIC CONTROL SIGNAL SYSTEM (MOD) - 1EACH US5 AT VT114

C.O. #10
TRAFFIC CONTROL SIGNAL SYSTEM (MOD #2) - 1EACH US5 AT BACK CENTER ROAD

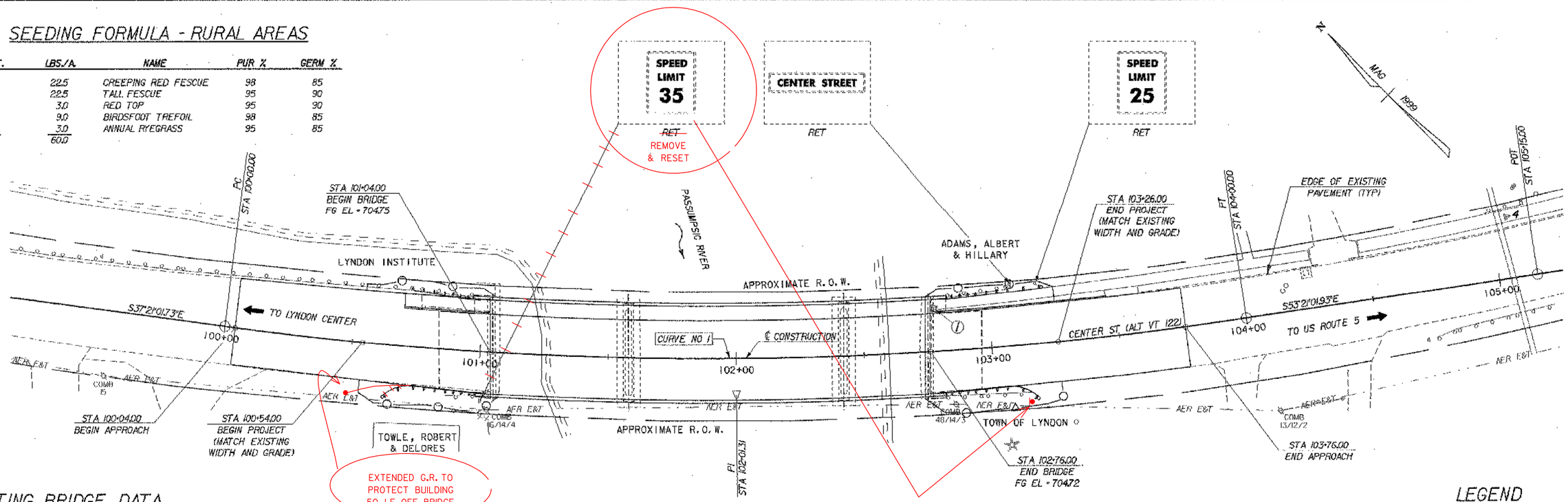
MCFARLAND-JOHNSON, INC.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
QUANTITY SHEET	
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. mn\549103\conf\z1238qshdgn	
Bridge Sheet No.	Sheet 3 of 34

SEEDING FORMULA - RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			



PLAN
SCALE 1" = 20'-0

EXISTING BRIDGE DATA

SPAN 1 = 51'-11 15/16", SPAN 2 = 81'-11 7/8", SPAN 3 = 31'-11 15/16"
DECK WIDTH = 38'-8" FASCIA TO FASCIA
SUPERSTRUCTURE = ROLLED STEEL BEAMS SUPPORTING A CONCRETE DECK
SUBSTRUCTURE = CONCRETE ABUTMENTS AND PIERS

CONSTRUCTION NOTES

DURABLE 4" WHITE LINE
STA. 100+04.00, 11.00' RT TO STA. 103+76.00, 11.00' RT
STA. 100+04.00, 11.00' LT TO STA. 103+76.00, 11.00' LT

DURABLE 4" YELLOW LINE
STA.100+04.00, ℄ TO STA.103+76.00, ℄ DBL. LINE - SOLID

HEAVY DUTY STEEL BEAM GUARD RAIL (MODIFIED)
STA. 100+62.92, 20.22' RT - STA. 100+99.83, 15.71' RT
STA. 102+80.18, 15.71' RT - STA. 103+16.98, 20.88' RT
STA. 100+72.09, 21.73' LT - STA. 100+97.38, 19.71' LT (SEE GENERAL NOTE 4)
STA. 102+82.62, 19.73' LT - STA. 103+22.07, 21.68' LT

CAST-IN-PLACE CONCRETE BRIDGE RAILING
STA. 100+98.84, 16.00' RT - STA. 102+81.17, 16.00' RT
STA. 100+96.36, 20.00' LT - STA. 102+83.63, 20.00' LT

REMOVAL OF EXISTING GUARD RAIL
STA. 100+87.51, 17.73' RT - STA. 100+98.54, 16.62' RT
STA. 102+81.07, 17.20' RT - STA. 103+14.33, 18.21' RT
STA. 100+72.09, 21.73' LT - STA. 100+97.38, 19.71' LT (SEE GENERAL NOTE 4)
STA. 102+83.46, 20.31' LT - STA. 103+09.31, 22.88' LT

VERTICAL GRANITE CURB
STA. 100+69.38, 14.50' LT - STA. 100+77.45', 14.50' LT

REMOVING AND RESETTING CURB
STA. 100+77.45, 15.40' LT - STA. 101+03.18, 14.94' LT
STA. 102+76.88, 14.50' LT - STA. 103+45.55, 15.17' LT

BITUMINOUS CONCRETE SIDEWALK
STA. 100+69.38, LT - STA. 101+03.18, LT
STA. 102+76.88, LT - STA. 103+26.00, LT

ANCHOR FOR STEEL BEAM GUARD RAIL
STA. 100+68.92, RT
STA. 103+10.98, RT
STA. 103+16.07, LT

COLD PLANING BITUMINOUS PAVEMENT
STA. 100+04.00 ℄ - STA. 100+54.00 ℄
STA. 103+26.00 ℄ - STA. 103+76.00 ℄

ALIGNMENT DATA

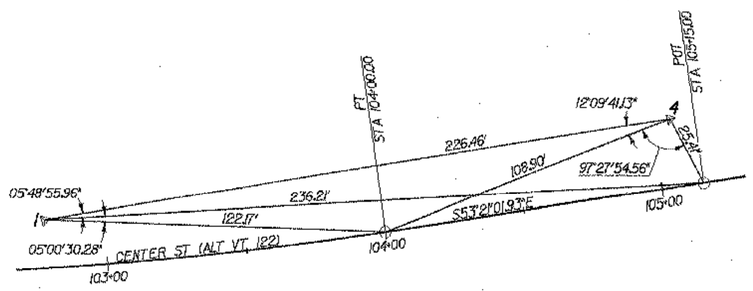
CONSTRUCTION CENTERLINE	NORTHING	EASTING
BEGIN PROJECT STA 100+54.00	10148.5758	4833.2705
PI CURVE NO 1 STA 102+01.31 BK.= STA 101+98.69 AH.	10030.8457	4921.8405
END PROJECT STA 103+26.00	9956.3658	5025.1488

CURVE DATA
Δ = 16°00'00" LT
D = 4°00'00"
R = 1432.39'
T = 201.31'
L = 400.00'
E = 14.08'

COORDINATES

POINT	STATION	NORTHING	EASTING
PC	100+00.00	10190.8749	4799.7080
BEGIN APPROACH	100+04.00	10187.6985	4802.1392
BEGIN PROJECT	100+54.00	10148.5758	4833.2705
BEGIN BRIDGE	101+04.00	10110.5634	4865.7482
END BRIDGE	102+76.00	9988.9098	4987.1917
END PROJECT	103+26.00	9956.3658	5025.1488
END APPROACH	103+76.00	9925.1669	5064.2177
PT	104+00.00	9910.5802	5083.3520
POT	105+15.00	9842.0347	5175.6168

NOTE:
NORTHINGS AND EASTINGS ARE BASED UPON THE LOCAL SURVEY OF THIS PROJECT, NOT THE VERMONT GRID SYSTEM.



SCHEMATIC LAYOUT, CONTROL POINTS TO ALIGNMENT
NOT TO SCALE

APPLICATION NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

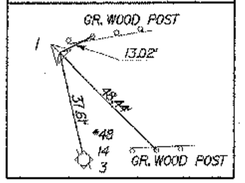
HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

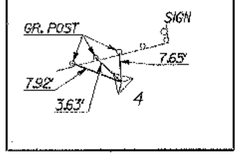
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.15 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

SWING TIES TO CENTERLINE CONSTRUCTION

SURVEY POINT NO. 1
N = 10000.00
E = 5000.00
EL = 704.96
STA 102+78.24
16.80' LT



SURVEY POINT NO. 4
N = 9866.40
E = 5182.85
EL =
STA 105+06.26
23.86' LT



LEGEND

EXISTING SIGNS

RET = RETAIN

GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITY SHALL REMAIN WITHIN THE EXISTING RIGHT-OF-WAY.
2. THE EXISTING ROADWAY ALONG CENTER STREET (ALT VT 122) IS PAVED. (DEPTH UNKNOWN).
3. ALL SALVAGED SIGNS SHALL BE ERECTED IN THE SAME LOCATION, ON NEW POSTS, AFTER COMPLETION OF CONSTRUCTION. POSTS SHALL BE PAID FOR UNDER ITEM 675.301, "FLANGED CHANNEL SIGN POSTS".
4. APPROXIMATE LENGTH SHOWN. MODIFY AS NECESSARY TO TIE INTO EXISTING RAIL WITHIN DISTANCE SHOWN.

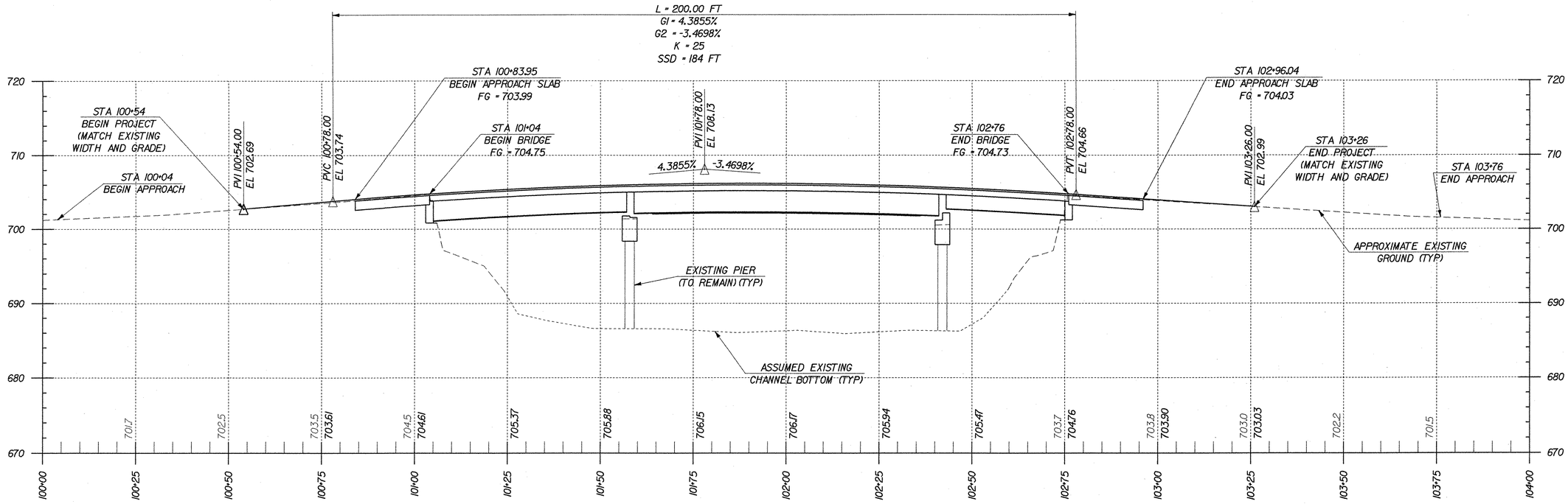
McFARLAND-JOHNSON, INC.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

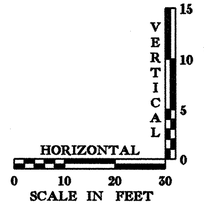
Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta.
	Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER
ROADWAY LAYOUT AND PAVEMENT MARKING

Designed By T.GRANT/S.MERKWAN	Drawn By S.DELIA/S.MERKWAN
Checked By T.GRANT/R.WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
L.G.C. Info. m:\1549\03\6cont\z1238rpl.dgn	
Bridge Sheet No.	Sheet 4 of 34



PROFILE



McFARLAND-JOHNSON, INC.

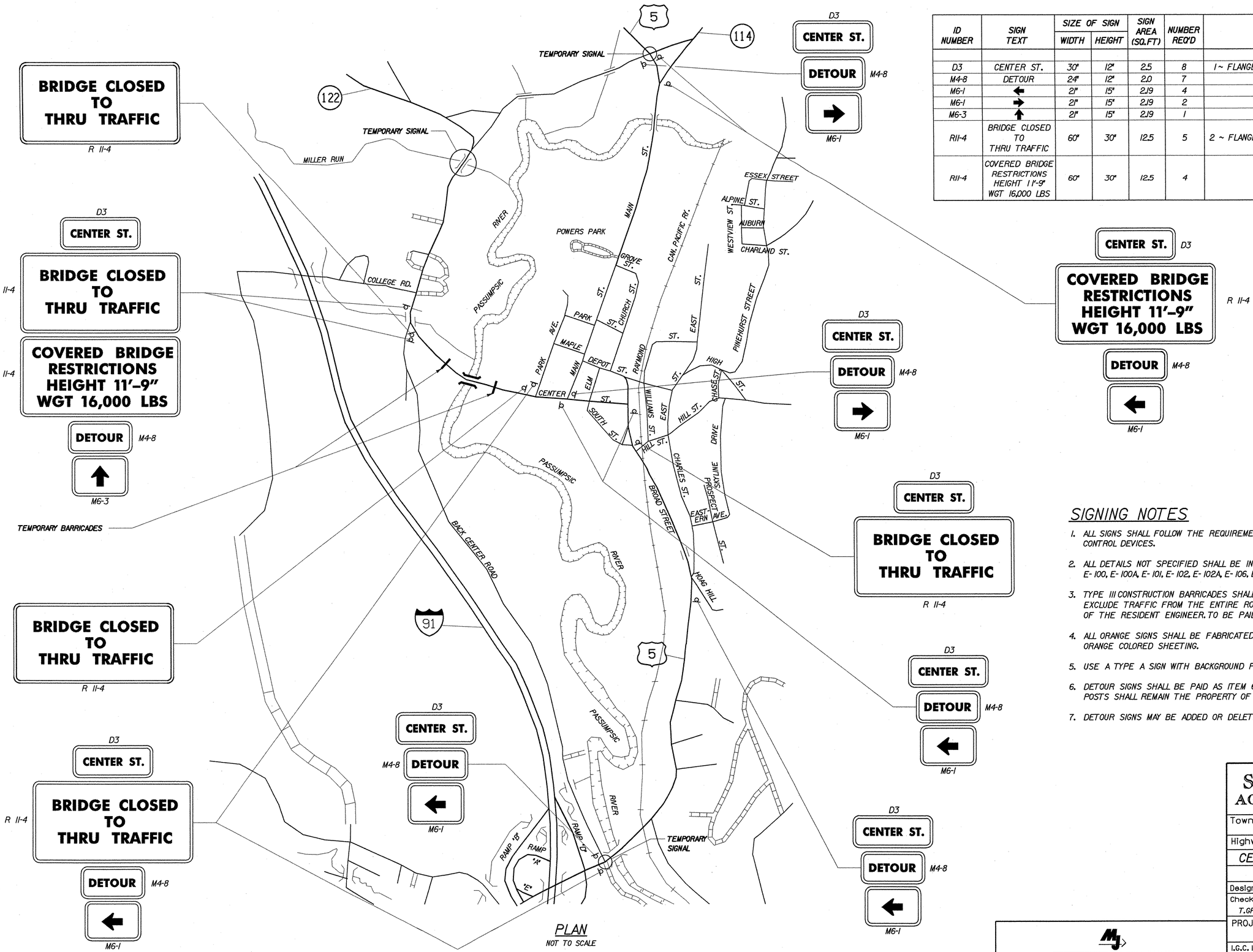
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER

PROFILE

Designed By T.GRANT	Drawn By S.DELIA
Checked By T.GRANT Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m:\549103\6cont\z1238prodgn	
Bridge Sheet No.	Sheet 5 of 34



PLAN
NOT TO SCALE

ID NUMBER	SIGN TEXT	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	SIGN AREA (SQ.FT)	NUMBER REQ'D	POST SIZE AND NUMBER REQ'D, EACH SIGN	TOTAL AREA (SQ.FT)
D3	CENTER ST.	30"	12"	2.5	8	1 ~ FLANGED CHANNEL STEEL POST, 3 LBS/FT	20.00
M4-8	DETOUR	24"	12"	2.0	7	———	14.00
M6-1	←	21"	15"	2.19	4	———	8.76
M6-1	→	21"	15"	2.19	2	———	4.38
M6-3	↑	21"	15"	2.19	1	———	2.19
RII-4	BRIDGE CLOSED TO THRU TRAFFIC	60"	30"	12.5	5	2 ~ FLANGED CHANNEL STEEL POSTS, 3 LBS/FT	62.50
RII-4	COVERED BRIDGE RESTRICTIONS HEIGHT 11'-9" WGT 16,000 LBS	60"	30"	12.5	4	———	50.00

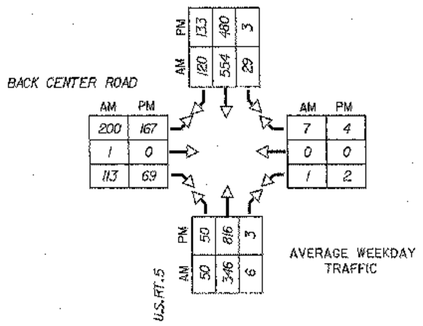
SIGNING NOTES

1. ALL SIGNS SHALL FOLLOW THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ALL DETAILS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH VTRANS STANDARDS E-100, E-100A, E-101, E-102, E-102A, E-106, E-107, E-107A, E-160.
3. TYPE III CONSTRUCTION BARRICADES SHALL BE PLACED SO AS TO PHYSICALLY EXCLUDE TRAFFIC FROM THE ENTIRE ROADWAY WIDTH OR AT THE DISCRETION OF THE RESIDENT ENGINEER. TO BE PAID AS ITEM 621.90, TEMPORARY TRAFFIC BARRIER.
4. ALL ORANGE SIGNS SHALL BE FABRICATED USING REFLECTORIZED FLOURESCENT ORANGE COLORED SHEETING.
5. USE A TYPE A SIGN WITH BACKGROUND PER NOTE 4 AND BLACK LETTERING.
6. DETOUR SIGNS SHALL BE PAID AS ITEM 641.10. ALL SIGNS AND SIGN POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
7. DETOUR SIGNS MAY BE ADDED OR DELETED AT THE DISCRETION OF THE RESIDENT ENGINEER.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
DETOUR AND SIGNING PLAN	
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m\V549103\6cont\zj2381pl.dgn	
Bridge Sheet No.	Sheet 6 of 34

McFARLAND-JOHNSON, INC.



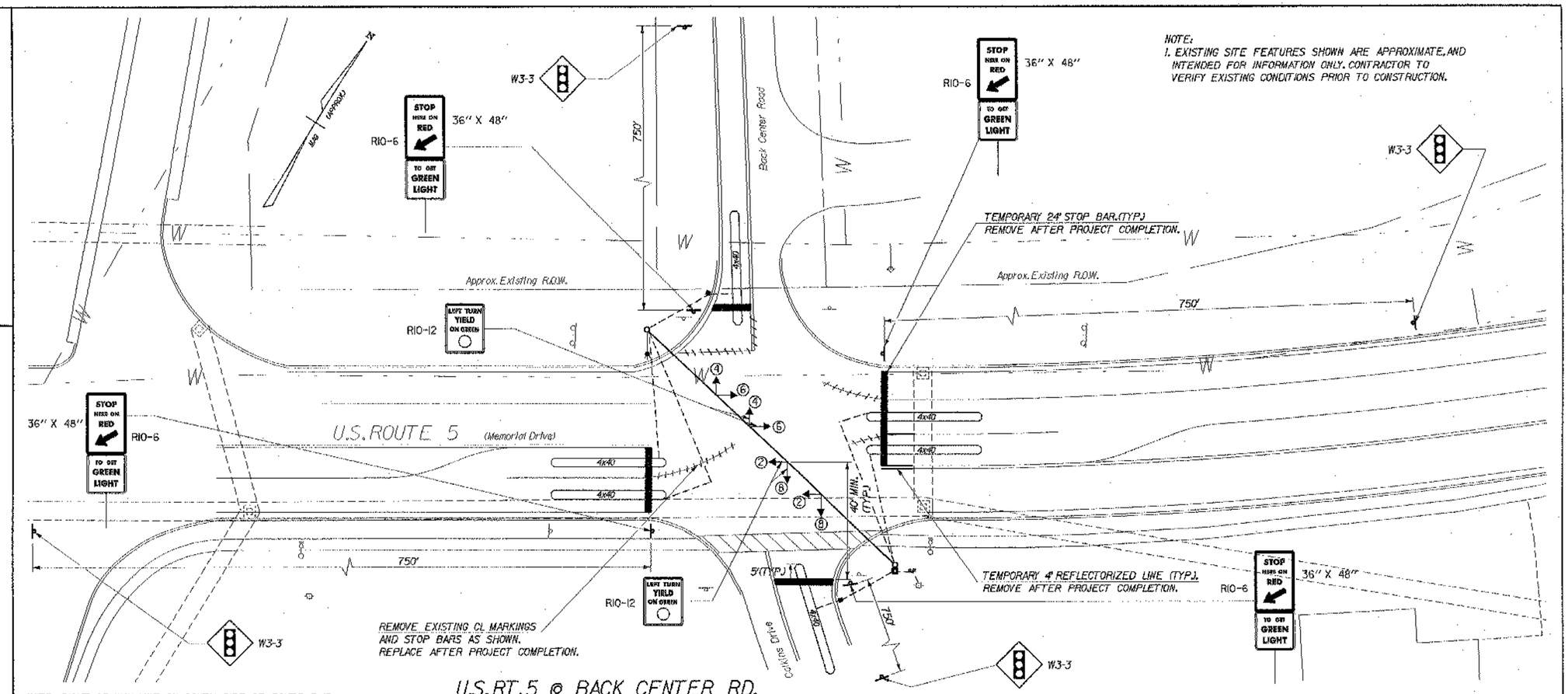
PHASING DIAGRAM AND SPECIAL NOTES FOR EACH LOCATION

PHASE	2 & 6			4 & 8		
MINIMUM	8	4	2	8	4	2
EXTENSION	2			2		
MAXIMUM	45	4	2	33	4	2
HEAD 2	G	Y	R	R	R	R
HEAD 6	R	R	R	G	Y	R

SPECIAL REQUIREMENTS

APPROACH	TEMPORARY VEHICLE DETECTOR	FLASHING BEACON ON ADVANCED WARNING SIGN
2		
6		
4	✓	
8	✓	

ENTER CHECK MARK IN APPROPRIATE BOX WHEN REQUIRED ON THIS PROJECT



NOTE:
1. EXISTING SITE FEATURES SHOWN ARE APPROXIMATE, AND INTENDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

U.S.RT.5 @ BACK CENTER RD.

SCALE 1" = 20'-0

GENERAL TEMPORARY TRAFFIC SIGNAL NOTES

1. DESIGN OF THE SIGNAL SUPPORT(S) AND ANY REQUIRED GUYING IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. SIGNAL TIMING/TIMING ADJUSTMENTS REQUESTED BY THE RESIDENT ENGINEER SHALL BE ACCOMPLISHED WITHIN A 48 HOUR PERIOD AND PAYMENT SHALL BE SUBSIDIARY TO THE TRAFFIC SIGNAL ITEM.
3. SIGNAL FACES SHALL CONSIST OF 12" LENSES.(RED, YELLOW, AND GREEN). ALL LENSES SHALL BE LED'S.
4. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL NOT BE LESS THAN 16½ FEET NOR MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY, SHALL NOT BE LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE GROUND.
5. SIGNAL FACES FOR ANY ONE APPROACH SHALL NOT BE LESS THAN 8 FEET APART MEASURED HORIZONTALLY BETWEEN CENTER OF FACES.
6. SIGNAL HEADS MAY BE HUNG ON A SPAN WIRE OR ON A CANTILEVER MAST ARM. AT LEAST ONE SIGNAL HEAD SHALL BE UNMISTAKABLY IN LINE WITH THE CENTER OF APPROACHING TRAFFIC AT ALL TIMES. THE SECOND SIGNAL HEAD MAY BE POST MOUNTED, LOCATED AT A DISTANCE NO GREATER THAN 14½ FEET FROM THE CENTER OF THE APPROACH LANE WHEN THE STOP BAR IS 40 FEET FROM THE SIGNAL HEAD. CONSULT THE M.U.T.C.D. FOR ADDITIONAL INFORMATION CONCERNING SIGNAL PLACEMENT.
7. SIGNAL HEAD PLACEMENT IS CRITICAL. HEADS SHALL BE ADJUSTED TO REFLECT LANE LOCATION CHANGES.
8. THE SIGNAL SYSTEM SHALL CONSIST OF POLES, SIGNS AND POSTS, WARNING SIGN, LUMINAIRES, FLASHING BEACONS, AND SIGNAL EQUIPMENT TO PROVIDE FOR AN ADEQUATE DESIGN. IT ALSO INCLUDES PERMITS AND COST ASSOCIATED WITH PROVIDING ELECTRICAL POWER.
9. THE CONTRACTOR SHALL PROVIDE AN ACTUATED CONTROLLER. THE APPROACHES NOTED SHALL HAVE A TEMPORARY VEHICLE DETECTOR. THE TYPE OF DETECTION SHALL BE AT THE OPTION OF THE CONTRACTOR. LOOPS ARE SHOWN FOR PLACEMENT PURPOSES ONLY. THE CONTROLLER, DETECTOR AND ALL OTHER SIGNAL EQUIPMENT SHALL MEET OR EXCEED ALL NEMA STANDARDS.
10. WHEN USED, VEHICLE DETECTOR LOOPS SHALL BE 4' X 40' FOR PRESENCE DETECTION AT THE STOP BAR WITH THE NEAR PORTION LOCATED 5 FEET BEYOND THE STOP BAR.
11. INTERVAL TIMING SHOWN IN SECONDS.
12. CONNECT BETWEEN SIGNAL POLES BY WHATEVER MEANS POSSIBLE OR CONVENIENT TO PROVIDE FOR A SAFE INSTALLATION.
13. PLACE TEMPORARY POLES BEHIND GUARDRAIL WHERE POSSIBLE.
14. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUYED AND SHALL NOT BE PLACED SO AS TO CREATE A HAZARD TO THE TRAVELLING PUBLIC.
15. ALL TEMPORARY SIGNAL EQUIPMENT, SIGNS, ETC., SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL. INCLUDING ANY TEMPORARY PAVEMENT MARKINGS, UTILITY POLES, WIRES, ETC. TEMPORARY LOOP DETECTORS SHALL BE LEFT IN PLACE.
16. A 250 WATT MER/150 WATT HPS LUMINAIRE AND MAST ARM SHALL BE PROVIDED ON THE NORTHWEST POLE AT A MOUNTING HEIGHT OF 30' ABOVE ROADWAY CENTERLINE. THE INTENT IS TO LIGHT UP THE AREA AROUND THE SIGNAL HEADS AND STOP BAR FOR INCREASED VISIBILITY. THE RESIDENT ENGINEER SHALL DETERMINE THE ADEQUACY OF THE LIGHTING AND DIRECT CHANGES IF THE LIGHTING IS INSUFFICIENT.
17. STOP BARS SHALL BE LOCATED A MINIMUM OF 40' AND A MAXIMUM OF 120' FROM AT LEAST ONE OF THE SIGNAL HEADS.
18. PAYMENT FOR THE VEHICLE DETECTORS SHALL BE FOR EACH UNIT INSTALLED.
19. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND STATE INSPECTOR.
20. REMOVE OR COVER EXISTING STOP SIGNS AT INTERSECTION AFTER TEMPORARY SIGNALS ARE IN PLACE. RESTORE SIGNS TO ORIGINAL CONDITION WHEN PROJECT IS COMPLETE. THE COSTS OF REMOVING OR COVERING STOP SIGNS AND RESTORING THESE SIGNS WHEN THE SIGNALS ARE REMOVED WILL BE INCLUDED IN THE PRICE BID FOR THE TEMPORARY SIGNAL SYSTEM INSTALLED.
21. ONE SIGN (R10-12), "LEFT TURN YIELD ON GREEN BALL" SHALL BE MOUNTED ADJACENT TO ONE OF THE SIGNAL HEADS FACING EACH APPROACH.

NOTE! THIS SIGNAL SYSTEM WAS PURCHASED BY THE AOT TO REMAIN IN-PLACE AFTER CENTER STREET WAS OPENED

SEE C.O. #10

LEGEND

EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
EX		CONDUIT
		VEHICLE LOOPS
		PEDESTAL POST
		STANCHION
	-S	SWEEP
		REMOVE PAINT STRIPE

McFARLAND-JOHNSON, INC.

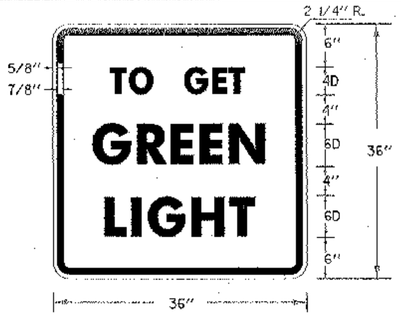
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER

TEMPORARY TRAFFIC SIGNAL PLAN - 1

Designed By C. BOWLER	Drawn By S.DELIA
Checked By M. LONG Date 04/01	Bridge Design Supervisor M.ZYDEL Date 04/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
LG.C. Info. m\V5\9403\cad\z1238tp2.dgn	
Bridge Sheet No.	Sheet 7 of 34



COLORS: BLACK TEXT & BORDER
WHITE REFL. BACKGROUND
MATERIALS: PER STD. E-142

PHASING DIAGRAM AND SPECIAL NOTES FOR EACH LOCATION

PHASE	2			4		
MINIMUM	12	4	18	12	4	18
EXTENSION	2			2		
MAXIMUM	25	4	18	41	4	18
HEAD 2	G	Y	R	R	R	R
HEAD 6	R	R	R	G	Y	R

SPECIAL REQUIREMENTS

APPROACH	TEMPORARY VEHICLE DETECTOR	FLASHING BEACON ON ADVANCED WARNING SIGN
2	✓	
6	✓	
4		

ENTER CHECK MARK IN APPROPRIATE BOX WHEN REQUIRED ON THIS PROJECT

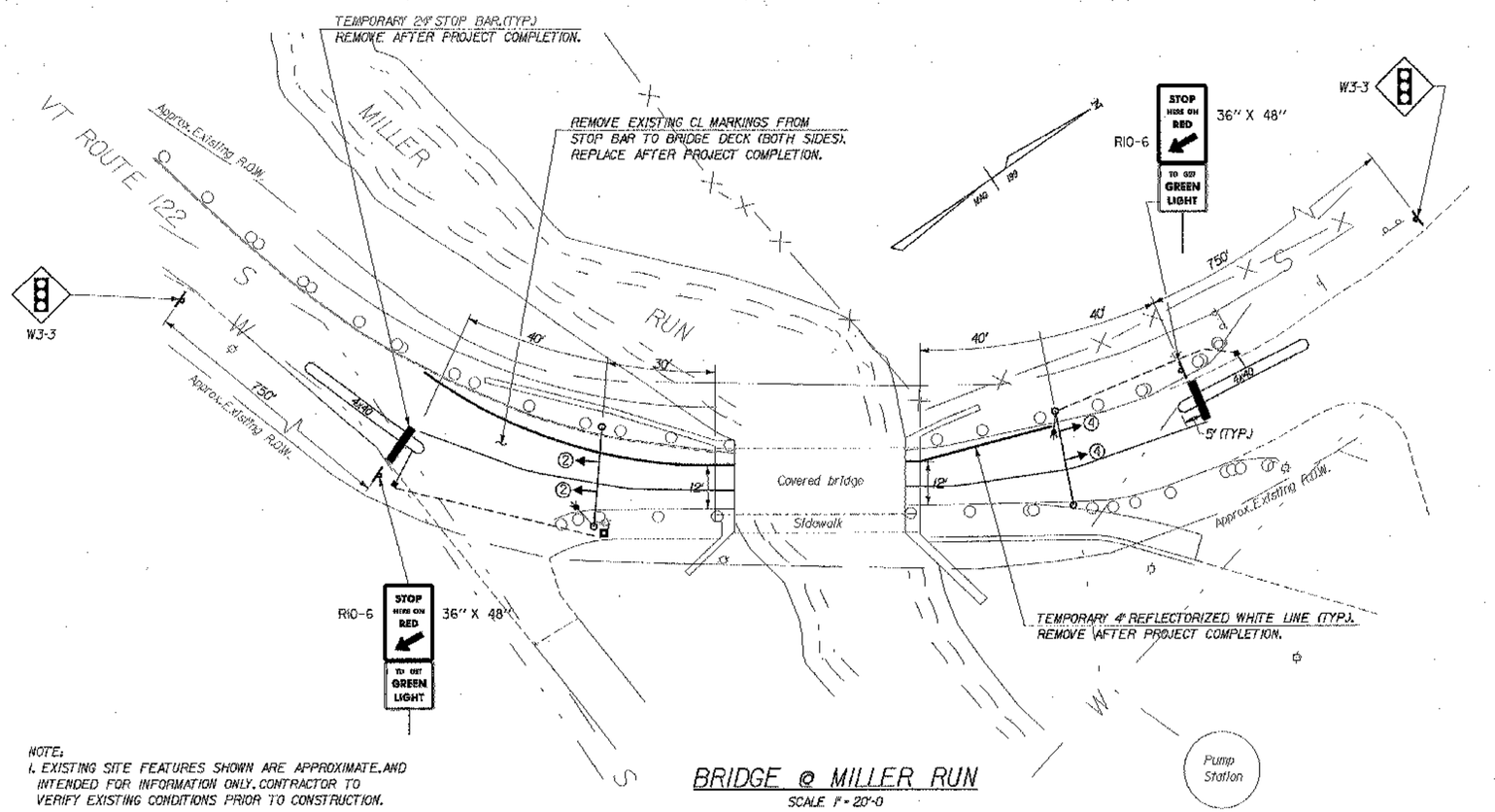
LEGEND

EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
		CONDUIT
		VEHICLE LOOPS
		PEDESTAL POST
		STANCHION
	S	SWEEP
		REMOVE PAINT STRIPE

VT RT.122

AM	PM		AM	PM
114	156	→	405	182

AVERAGE WEEKDAY TRAFFIC



NOTE:
1. EXISTING SITE FEATURES SHOWN ARE APPROXIMATE AND INTENDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

BRIDGE @ MILLER RUN
SCALE 1" = 20'-0

GENERAL TEMPORARY TRAFFIC SIGNAL NOTES

1. DESIGN OF THE SIGNAL SUPPORT(S) AND ANY REQUIRED GUYING IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. SIGNAL TIMING/TIMING ADJUSTMENTS REQUESTED BY THE RESIDENT ENGINEER SHALL BE ACCOMPLISHED WITHIN A 48 HOUR PERIOD AND PAYMENT SHALL BE SUBSIDIARY TO THE TRAFFIC SIGNAL ITEM. THE ALL-RED CLEARANCE INTERVAL IS BASED ON AN ASSUMED SPEED OF 10-20 MPH, THE RESIDENT ENGINEER SHALL MAKE SEVERAL TRIAL RUNS TO DETERMINE THE PROPER ALL-RED CLEARANCE INTERVAL.
3. SIGNAL FACES SHALL CONSIST OF 12" LENSES. (RED, YELLOW AND GREEN). ALL LENSES SHALL BE LED'S.
4. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL NOT BE LESS THAN 18½ FEET NOR MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY, SHALL NOT BE LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE GROUND. CAUTION SHOULD BE USED TO INSURE COMPLIANCE WITH THE HEIGHT REQUIREMENTS IN THE EVENT THE NEW APPROACH GRADES DIFFER SIGNIFICANTLY FROM THE OLD ROAD GRADE.
5. SIGNAL FACES FOR ANY ONE APPROACH SHALL NOT BE LESS THAN 8 FEET APART MEASURED HORIZONTALLY BETWEEN CENTER OF FACES.
6. SIGNAL HEADS MAY BE HUNG ON A SPAN WIRE OR ON A CANTILEVER MAST ARM. AT LEAST ONE SIGNAL HEAD SHALL BE UNMISTAKABLY IN LINE WITH THE CENTER OF APPROACHING TRAFFIC AT ALL TIMES. THE SECOND SIGNAL HEAD MAY BE POST MOUNTED, LOCATED AT A DISTANCE NO GREATER THAN 14½ FEET FROM THE CENTER OF THE APPROACH LANE WHEN THE STOP BAR IS 40 FEET FROM THE SIGNAL HEAD. CONSULT THE M.U.T.C.D. FOR ADDITIONAL INFORMATION CONCERNING SIGNAL PLACEMENT.
7. SIGNAL HEAD PLACEMENT IS CRITICAL. HEADS SHALL BE ADJUSTED TO REFLECT LANE LOCATION CHANGES.
8. THE SIGNAL SYSTEM SHALL CONSIST OF POLES, SIGNS AND POSTS, WARNING SIGN, LUMINAIRES, FLASHING BEACONS, AND SIGNAL EQUIPMENT TO PROVIDE FOR AN ADEQUATE DESIGN. IT ALSO INCLUDES PERMITS AND COST ASSOCIATED WITH PROVIDING ELECTRICAL POWER.
9. THE CONTRACTOR SHALL PROVIDE AN ACTUATED CONTROLLER. THE APPROACHES NOTED SHALL HAVE A TEMPORARY VEHICLE DETECTOR. THE TYPE OF DETECTION SHALL BE AT THE OPTION OF THE CONTRACTOR. LOOPS ARE SHOWN FOR PLACEMENT PURPOSES ONLY. THE CONTROLLER, DETECTOR AND ALL OTHER SIGNAL EQUIPMENT SHALL MEET OR EXCEED ALL NEMA STANDARDS.
10. WHEN USED, VEHICLE DETECTOR LOOPS SHALL BE 4' X 40' FOR PRESENCE DETECTION AT THE STOP BAR WITH THE NEAR PORTION LOCATED 5 FEET BEYOND THE STOP BAR.
11. ON SEMI-ACTUATED SIGNAL, PARTICULARLY WITH LONG BRIDGES, THE CONTROLLER SHOULD BE LOCATED ON THE SAME SIDE OF THE BRIDGE AS THE DETECTOR.
12. INTERVAL TIMING SHOWN IN SECONDS.
13. CONNECT BETWEEN SIGNAL POLES BY WHATEVER MEANS POSSIBLE OR CONVENIENT TO PROVIDE FOR A SAFE INSTALLATION.
14. PLACE TEMPORARY POLES BEHIND GUARDRAIL WHERE POSSIBLE.
15. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUYED AND SHALL NOT BE PLACED SO AS TO CREATE A HAZARD TO THE TRAVELLING PUBLIC.
16. ALL TEMPORARY SIGNAL EQUIPMENT, SIGNS, ETC., SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL, INCLUDING ANY TEMPORARY PAVEMENT MARKINGS, UTILITY POLES, WIRES, ETC. TEMPORARY LOOP DETECTORS SHALL BE LEFT IN PLACE.
17. A 250 WATT MER/150 WATT HPS LUMINAIRE AND MAST ARM SHALL BE PROVIDED ON A POLE ON EACH APPROACH AT A MOUNTING HEIGHT OF 30' ABOVE ROADWAY CENTERLINE. THE INTENT IS TO LIGHT UP THE AREA AROUND THE SIGNAL HEADS AND STOP BAR FOR INCREASED VISIBILITY. THE RESIDENT ENGINEER SHALL DETERMINE THE ADEQUACY OF THE LIGHTING AND DIRECT CHANGES IF THE LIGHTING IS INSUFFICIENT.
18. STOP BARS SHALL BE LOCATED A MINIMUM OF 40' AND A MAXIMUM OF 120' FROM AT LEAST ONE OF THE SIGNAL HEADS.
19. PAYMENT FOR THE VEHICLE DETECTORS SHALL BE FOR EACH UNIT INSTALLED.
20. SIGNS AND POSTS AS SHOWN ON THIS SHEET AND NOTED BELOW ARE SUBSIDIARY TO THE TRAFFIC CONTROL SIGNAL ITEMS ("STOP HERE ON RED", "SIGNAL AHEAD", "NO PASSING ZONE", AND "TO GET GREEN LIGHT" ETC.) THE TEMPORARY STOP BARS SHOULD BE PAID UNDER THE TEMPORARY 24" STOP BAR ITEM.
21. SEE STD. E-140 FOR "STOP HERE ON RED" SIGN DETAIL AND E-101 FOR "SIGNAL AHEAD" SYMBOL SIGN. SEE STANDARD E-121 FOR SIGN PLACEMENT. SEE STANDARD E-171A AND E-172 FOR ADDITIONAL INFORMATION ON SIGNALS AND DETECTORS.
22. A "SIGNAL AHEAD" SIGN SHALL BE PLACED AT LEAST 750' FROM THE SIGNAL OR AT A POSITION TO BE DETERMINED BY THE ENGINEER.
23. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND STATE INSPECTOR.

NOTE: THIS SYSTEM WAS REMOVED WHEN CENTER STREET WAS OPENED AS PER PLAN

McFARLAND-JOHNSON, INC.

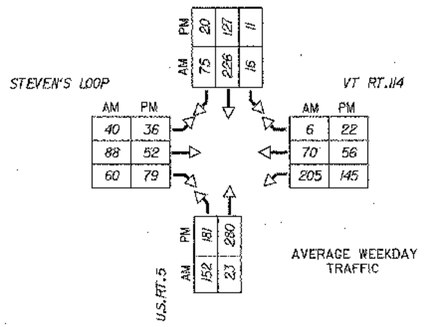
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

TEMPORARY TRAFFIC SIGNAL PLAN - 2

Designed By C. BOWLER	Drawn By S.DELIA
Checked By M. LONG Date 04/01	Bridge Design Supervisor M. ZYDEL Date 04/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. mN\549103\6cont\zj238tp3.dgn	
Bridge Sheet No.	Sheet 8 of 34



PHASING DIAGRAM AND SPECIAL NOTES FOR EACH LOCATION

PHASE	2 & 6			4 & 8		
MINIMUM	8	4	2	8	4	2
EXTENSION	2			2		
MAXIMUM	46	4	2	32	4	2
HEAD 2	G	Y	R	R	R	R
HEAD 6	R	R	R	G	Y	R

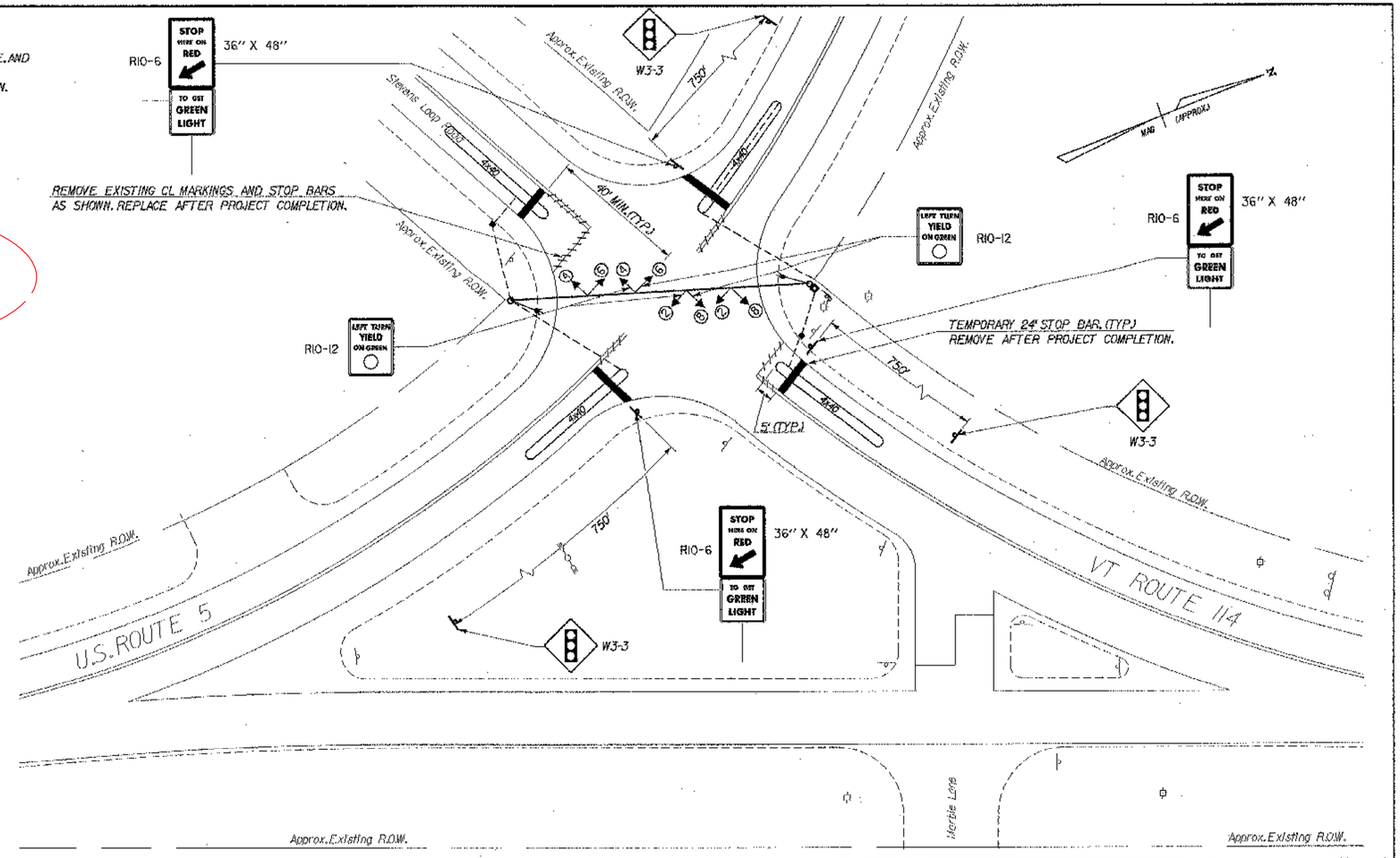
SPECIAL REQUIREMENTS

APPROACH	TEMPORARY VEHICLE DETECTOR	FLASHING BEACON ON ADVANCED WARNING SIGN
2		
6		
4	✓	
8	✓	

ENTER CHECK MARK IN APPROPRIATE BOX WHEN REQUIRED ON THIS PROJECT

NOTE:
1. EXISTING SITE FEATURES SHOWN ARE APPROXIMATE AND INTENDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

NOTE! THIS SYSTEM WAS PURCHASED BY THE AOT WHEN CENTER STREET WAS OPENED TO REMAIN AS A PERMENANT INSTALLATION



U.S.RT.5 @ VT RT.114
SCALE 1" = 20'-0

GENERAL TEMPORARY TRAFFIC SIGNAL NOTES

1. DESIGN OF THE SIGNAL SUPPORT(S) AND ANY REQUIRED GUYING IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. SIGNAL TIMING/TIMING ADJUSTMENTS REQUESTED BY THE RESIDENT ENGINEER SHALL BE ACCOMPLISHED WITHIN A 48 HOUR PERIOD AND PAYMENT SHALL BE SUBSIDIARY TO THE TRAFFIC SIGNAL ITEM.
3. SIGNAL FACES SHALL CONSIST OF 12" LENSES. (RED, YELLOW, AND GREEN). ALL LENSES SHALL BE LED'S.
4. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL NOT BE LESS THAN 16½ FEET NOR MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY SHALL NOT BE LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE GROUND.
5. SIGNAL FACES FOR ANY ONE APPROACH SHALL NOT BE LESS THAN 8 FEET APART MEASURED HORIZONTALLY BETWEEN CENTER OF FACES.
6. SIGNAL HEADS MAY BE HUNG ON A SPAN WIRE OR ON A CANTILEVER MAST ARM. AT LEAST ONE SIGNAL HEAD SHALL BE UNMISTAKABLY IN LINE WITH THE CENTER OF APPROACHING TRAFFIC AT ALL TIMES. THE SECOND SIGNAL HEAD MAY BE POST MOUNTED, LOCATED AT A DISTANCE NO GREATER THAN 14½ FEET FROM THE CENTER OF THE APPROACH LANE WHEN THE STOP BAR IS 40 FEET FROM THE SIGNAL HEAD. CONSULT THE M.U.T.C.D. FOR ADDITIONAL INFORMATION CONCERNING SIGNAL PLACEMENT.
7. SIGNAL HEAD PLACEMENT IS CRITICAL. HEADS SHALL BE ADJUSTED TO REFLECT LANE LOCATION CHANGES.
8. THE SIGNAL SYSTEM SHALL CONSIST OF POLES, SIGNS AND POSTS, WARNING SIGN, LUMINAIRES, FLASHING BEACONS, AND SIGNAL EQUIPMENT TO PROVIDE FOR AN ADEQUATE DESIGN. IT ALSO INCLUDES PERMITS AND COST ASSOCIATED WITH PROVIDING ELECTRICAL POWER.
9. THE CONTRACTOR SHALL PROVIDE AN ACTUATED CONTROLLER. THE APPROACHES NOTED SHALL HAVE A TEMPORARY VEHICLE DETECTOR. THE TYPE OF DETECTION SHALL BE AT THE OPTION OF THE CONTRACTOR. LOOPS ARE SHOWN FOR PLACEMENT PURPOSES ONLY. THE CONTROLLER, DETECTOR AND ALL OTHER SIGNAL EQUIPMENT SHALL MEET OR EXCEED ALL NEMA STANDARDS.
10. WHEN USED, VEHICLE DETECTOR LOOPS SHALL BE 4' X 40' FOR PRESENCE DETECTION AT THE STOP BAR WITH THE NEAR PORTION LOCATED 5 FEET BEYOND THE STOP BAR.
11. INTERVAL TIMING SHOWN IN SECONDS.
12. INTERCONNECT BETWEEN SIGNAL POLES BY WHATEVER MEANS POSSIBLE OR CONVENIENT TO PROVIDE FOR A SAFE INSTALLATION.
13. PLACE TEMPORARY POLES BEHIND GUARDRAIL WHERE POSSIBLE.
14. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUYED AND SHALL NOT BE PLACED SO AS TO CREATE A HAZARD TO THE TRAVELLING PUBLIC.
15. ALL TEMPORARY SIGNAL EQUIPMENT, SIGNS, ETC. SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL, INCLUDING ANY TEMPORARY PAVEMENT MARKINGS, UTILITY POLES, WIRES, ETC. TEMPORARY LOOP DETECTORS SHALL BE LEFT IN PLACE.
16. A 250 WATT MER/150 WATT HPS LUMINAIRE AND MAST ARM SHALL BE PROVIDED ON EACH POLE AT A MOUNTING HEIGHT OF 30' ABOVE ROADWAY CENTERLINE. THE INTENT IS TO LIGHT UP THE AREA AROUND THE SIGNAL HEADS AND STOP BAR FOR INCREASED VISIBILITY. THE RESIDENT ENGINEER SHALL DETERMINE THE ADEQUACY OF THE LIGHTING AND DIRECT CHANGES IF THE LIGHTING IS INSUFFICIENT.
17. STOP BARS SHALL BE LOCATED A MINIMUM OF 40' AND A MAXIMUM OF 120' FROM AT LEAST ONE OF THE SIGNAL HEADS.
18. PAYMENT FOR THE VEHICLE DETECTORS SHALL BE FOR EACH UNIT INSTALLED.
19. A "SIGNAL AHEAD" SIGN SHALL BE PLACED AT LEAST 750' FROM THE SIGNAL OR AT A POSITION TO BE DETERMINED BY THE ENGINEER.
20. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND STATE INSPECTOR.
21. REMOVE OR COVER EXISTING STOP SIGNS AT INTERSECTION AFTER TEMPORARY SIGNALS ARE IN PLACE. RESTORE SIGNS TO ORIGINAL CONDITION WHEN PROJECT IS COMPLETE. THE COSTS OF REMOVING OR COVERING STOP SIGNS AND RESTORING THESE SIGNS WHEN THE SIGNALS ARE REMOVED WILL BE INCLUDED IN THE PRICE BID FOR THE TEMPORARY SIGNAL SYSTEM INSTALLED.
22. ONE SIGN (R10-12), "LEFT TURN YIELD ON GREEN BALL" SHALL BE MOUNTED ADJACENT TO ONE OF THE SIGNAL HEADS FACING EACH APPROACH.

LEGEND

EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
		CONDUIT
		VEHICLE LOOPS
		PEDESTAL POST
		STANCHION
		SWEEP
		REMOVE PAINT STRIPE

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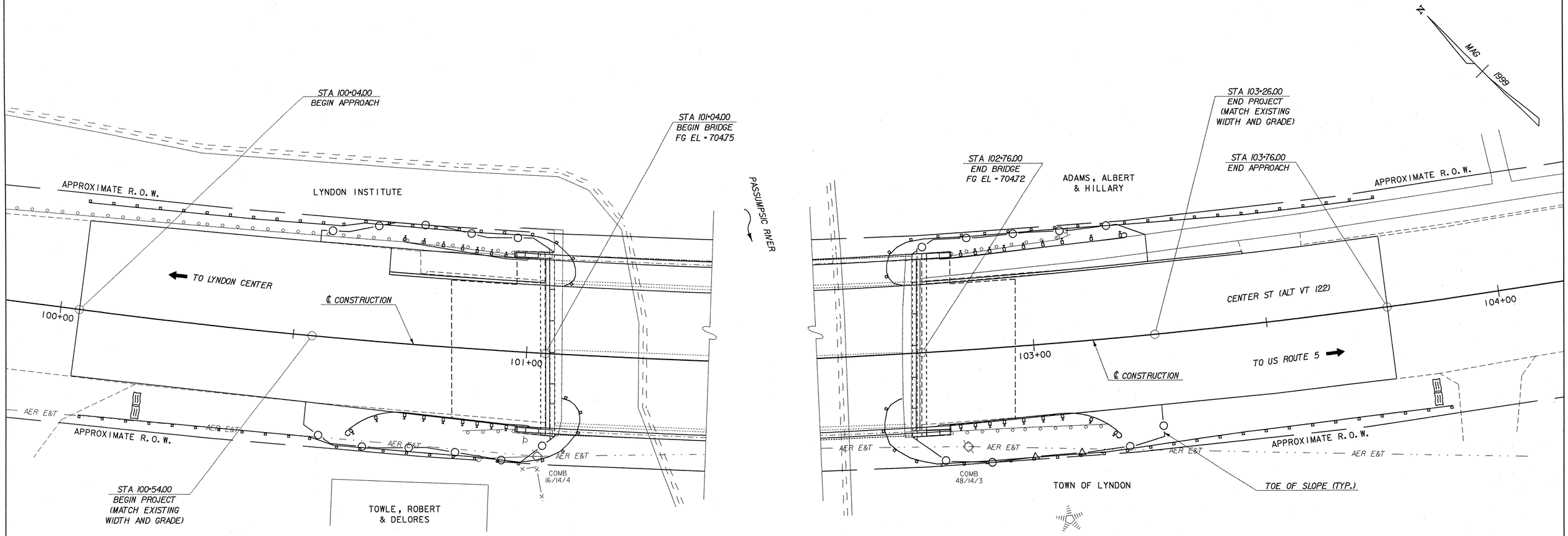
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER

TEMPORARY TRAFFIC SIGNAL PLAN - 3

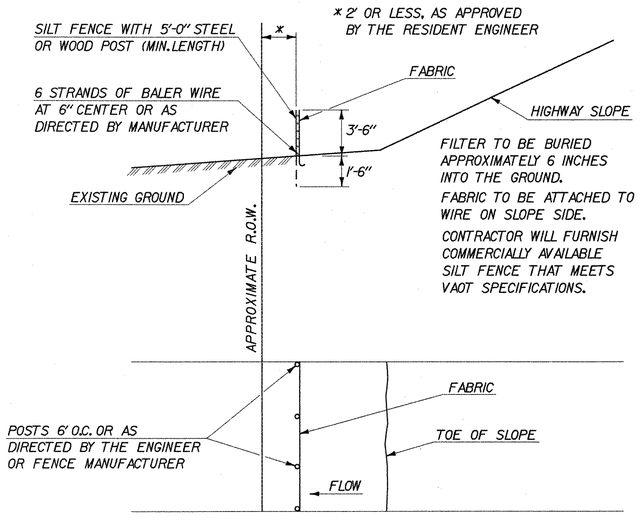
Designed By C. BOWLER	Drawn By S.DELIA
Checked By M. LONG Date 04/01	Bridge Design Supervisor M. ZYDEL Date 04/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. mN549103\600nfxj238hp4.dgn	
Bridge Sheet No.	Sheet 9 of 34



EROSION CONTROL LAYOUT

SCALE 1" = 10'-0

10 0 10



SILT FENCE DETAIL

NOT TO SCALE

LEGEND

SILT FENCE

HAY BALES

NOTES

1. THE EROSION CONTROL MEASURES SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL EROSION CONTROL PLAN SHALL BE BASED ON EXISTING FIELD CONDITIONS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL TO THE REGIONAL CONSTRUCTION ENGINEER AND STREAM ALTERATION ENGINEER. PAYMENT FOR THE DEVELOPMENT OF THE EROSION CONTROL PLAN SHALL BE INCLUDED IN ITEM 652.10, EROSION AND SEDIMENT CONTROL PLAN.

2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THERE WILL BE AREAS WHERE THE LOCATION OF THE SILT FENCE WILL BE IN CLOSE PROXIMITY TO THE LIMITS OF THE PROPOSED TOES OF SLOPE IN ORDER TO KEEP ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY LIMITS. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO HIGHLIGHT THE LOCATION OF THE SILT FENCE AND TO AVOID DAMAGING IT. SPECIAL DETAILS FOR SILT FENCE MAY BE REQUIRED IN THESE AREAS AND SHALL BE INCLUDED WITH THE SUBMITTAL OF THE EROSION AND SEDIMENT CONTROL PLAN. A SAMPLE DETAIL IS INCLUDED ON THIS SHEET FOR REFERENCE PURPOSES.

3. MONITORING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE PER ITEM 652.20, MONITORING EROSION AND SEDIMENT CONTROL PLAN AND ITEM 652.30, FIELD MAINTENANCE OF EROSION AND SEDIMENT CONTROL PLAN.

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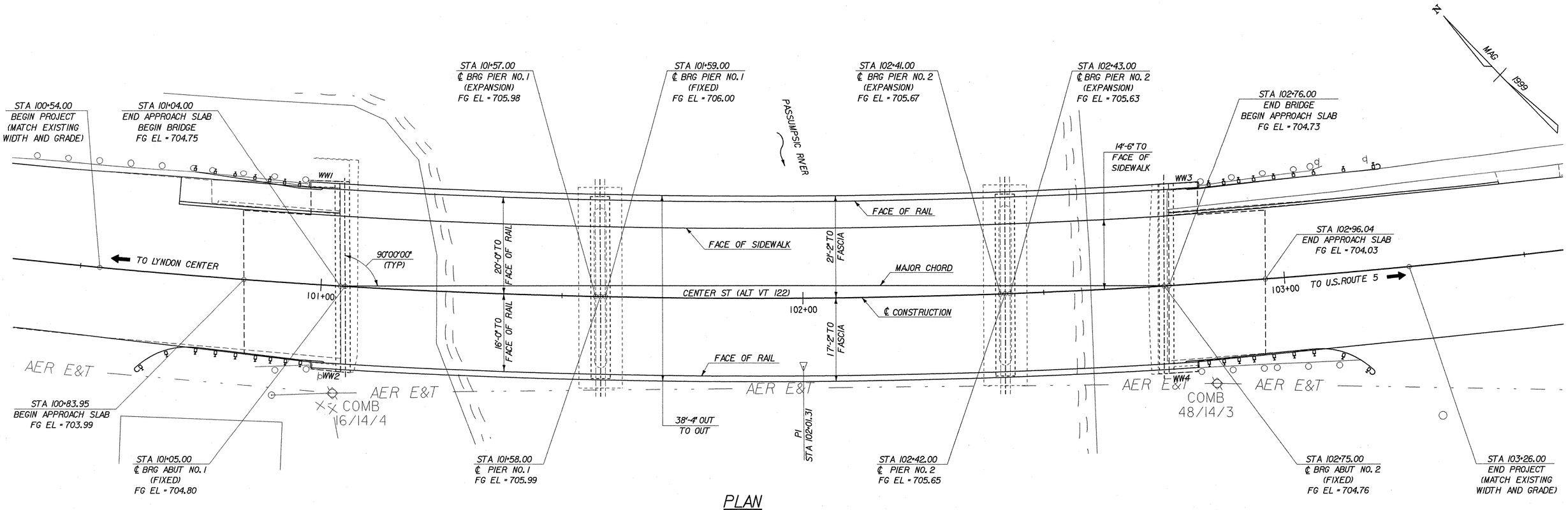
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.

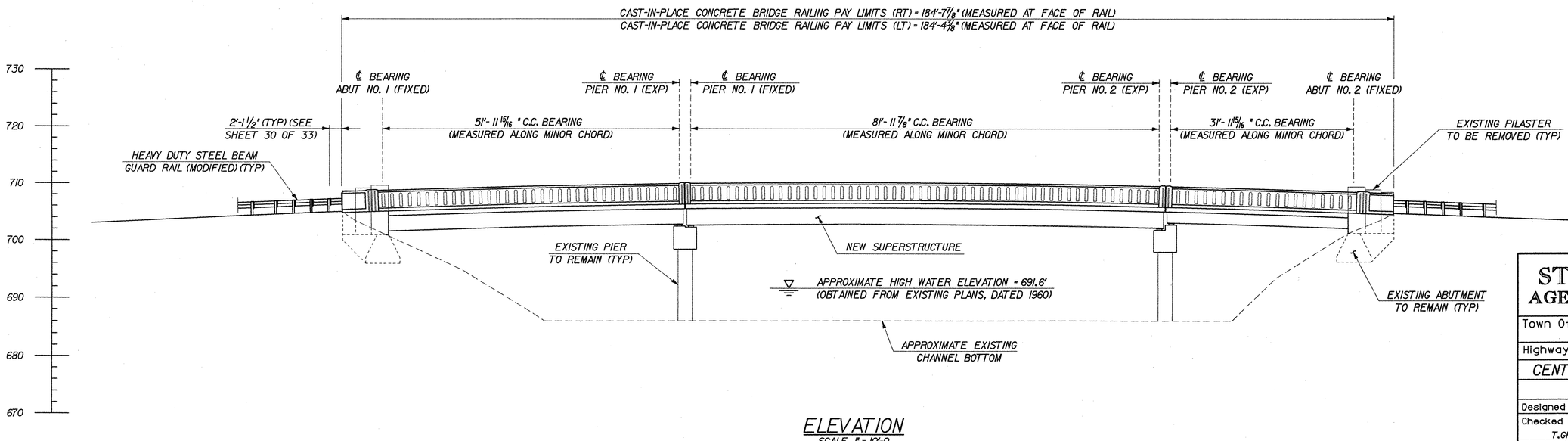
CENTER STREET OVER PASSUMPSIC RIVER

EROSION CONTROL PLAN

Designed By R. JOY	Drawn By S. MERKWAN
Checked By E. WEINGARTNER Date 10/03	Bridge Design Supervisor M. ZYDEL Date 10/03
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m\V549103\6cont\zj238ecp.dgn	
Bridge Sheet No.	Sheet 10 of 34



PLAN
SCALE 1" = 10'-0



ELEVATION
SCALE 1" = 10'-0

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

PLAN AND ELEVATION

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	mV549103\6cont\z1238gpe.dgn		
Bridge Sheet No.		Sheet 11 of 34	

McFARLAND-JOHNSON, INC.

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, DATED 2002, AND ITS LATEST REVISIONS.

2. THERE ARE OVERHEAD UTILITIES IN CLOSE PROXIMITY. THE CONTRACTOR SHALL USE CAUTION WHEN WORKING AROUND THESE UTILITIES AND/OR COORDINATE TEMPORARY RELOCATION WITH UTILITY COMPANY. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

3. THE STRUCTURAL STEEL OF THE EXISTING BRIDGE ON THIS PROJECT IS PAINTED WITH A MATERIAL WHICH MAY CONTAIN LEAD. THE STRUCTURAL STEEL IS THE PROPERTY OF THE CONTRACTOR AND THE CONTRACTOR MAY DISPOSE OF IT OR RETAIN IT FOR FUTURE USE. THE CONTRACTOR SHALL INFORM THE ENGINEER OF HIS/HER PLANS FOR THE DISPOSAL OR RETAINAGE OF THE STRUCTURAL STEEL PRIOR TO ITS REMOVAL.

4. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN AND ADJACENT PROPERTY OWNERS TO OBTAIN A SUITABLE STAGING AREA.

5. THE CONTRACTOR SHALL ERECT, MAINTAIN, REMOVE AND/OR RESET AS REQUIRED ALL SIGNS AND BARRICADES ON THE PROJECT. STANDARD PROJECT CONSTRUCTION SIGNING AND BARRICADES SUCH AS SHOWN ON VAOT STANDARD DRAWINGS E-100 THRU E-107A, UNLESS SPECIFICALLY DESIGNATED TO BE PAID AS A CONTRACT ITEM, SHALL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 104, 105 AND 107 OF THE VAOT 2001 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

6. DESIGN IS FOR HS25 LIVE LOADING WITH NO ALLOWANCE FOR FUTURE PAVEMENT.

7. AFTER SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS ALONG THE TOP OF THE BEAMS SHALL BE TAKEN AS DIRECTED BY THE ENGINEER FOR USE IN DETERMINING FINAL GRADE AND HAUNCH DEPTHS.

8. IN NO CASE SHALL THERE BE LESS THAN 2½" OF COVER OVER THE TOP OF THE SHEAR STUDS, NOR SHALL THE STUDS HAVE LESS THAN 2" OF EMBEDMENT INTO THE DECK.

9. WHEN POURING THE DECK, THE CONCRETE SHALL BE DEPOSITED PARALLEL TO THE CENTERLINE OF BEARING SO AS TO LOAD THE GIRDERS EQUALLY.

10. "FLEMING BRACKETS" OR SIMILAR FALSEWORK SHALL BE SPACED AS REQUIRED BY DESIGN UP TO A MAXIMUM OF 4'.

11. THE UNIT WEIGHT OF SOIL SHALL BE TAKEN AS 140 PCF.

12. REINFORCING PLACEMENT TOLERANCES SHALL BE:
    SPACING: +/- 1 INCH
    CLEARANCE: +/- ¼ INCH

13. MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

ALONG BACK FACES OF WALLS AGAINST EARTH:	2 INCHES
ALONG TOP SURFACE OF DECK SLAB:	2½ INCHES
ALONG BOTTOM SURFACE OF DECK SLAB:	1½ INCHES
ELSEWHERE UNLESS OTHERWISE NOTED:	3 INCHES

14. DECK CONCRETE SHALL BE CONCRETE, HIGH PERFORMANCE CLASS A. ALL OTHER CONCRETE SHALL BE CONCRETE, HPC CLASS B UNLESS NOTED OTHERWISE.

15. THE SIDEWALK SHALL BE CONCRETE, HIGH PERFORMANCE CLASS A. REGARDING RAILING MATERIALS, PLEASE REFER TO THE SPECIAL PROVISIONS.

16. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1".

17. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP BEADS.

18. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

19. THE KEY IN CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT.

20. ALL REINFORCING STEEL IN THE CONCRETE DECK, BRIDGE CURB AND SIDEWALK SHALL BE EPOXY COATED AND PAID FOR UNDER ITEM 507.17. ALL REINFORCING STEEL IN THE CAST-IN-PLACE CONCRETE BRIDGE RAILING SHALL BE EPOXY COATED AND INCLUDED IN THE BID PRICE FOR ITEM 525.50. WHEN EPOXY COATED REBAR IS CUT, THE UNCOATED ENDS SHALL BE REPAIRED WITH MATERIALS AND PROCEDURES APPROVED BY THE COATING MANUFACTURER. FLAME CUTTING OF EPOXY COATED REBAR WILL NOT BE PERMITTED.

21. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED ½ INCH PER FOOT. ABUTMENT SEATS SHALL BE SLOPED FULL WIDTH TOWARD MIDSPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH STEEL TROWEL FINISH.

22. ANY BOLT HOLES IN THE WEB OF THE FASCIA GIRDERS NOT OTHERWISE FILLED SHALL BE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS MEETING AASHTO M 164 (ASTM A325). THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 506.19.

23. ALL FIELD CONNECTIONS SHALL BE MADE USING ⅞ INCH DIAMETER, TYPE 1 GALVANIZED BOLTS FOR PAINTED CONNECTIONS AND TYPE 3 BOLTS FOR UNPAINTED CONNECTIONS MEETING AASHTO M 164 (ASTM A325). HOLES SHALL BE 15/16 INCH DIAMETER UNLESS OTHERWISE NOTED. ANY CONNECTIONS NOT DESIGNATED SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.

24. ALL WELDING AND DIMENSIONAL TOLERANCES OF WELDED MEMBERS SHALL CONFORM TO THE LATEST ANSI/AASHTO/AWS D1.5-95 CODE AND LATEST REVISIONS.

25. ALL STRUCTURAL STEEL WITHIN 6 FEET OF PIER NO. 1 AND PIER NO. 2 SHALL BE COATED WITH A PROTECTIVE PAINT SYSTEM AND GREASE AS SPECIFIED IN SUPPLEMENTAL SPECIFICATION 513, "PROTECTIVE COATINGS". THE COLOR OF PAINT WILL BE BROWN, FEDERAL COLOR CHIP 20059. ALL COSTS SHALL BE INCLUDED IN ITEM 513.40, "SURFACE PREPARATION, SHOP", AND ITEM 513.25, "STRUCTURAL PAINTING, SHOP APPLIED", AND ITEM 513.35 "CONTAINMENT & ENVIRONMENTAL PROTECTION, SHOP".

26. THE CHARPY V-NOTCH TEST IS REQUIRED FOR MEMBERS DESIGNATED AS SUCH AND ONLY FOR SUCH MEMBERS, AS SPECIFIED IN SECTION 714.01 OF THE STANDARD SPECIFICATIONS.

27. ALL DIMENSIONS ARE HORIZONTAL AND VERTICAL AND ARE GIVEN AT 68° F, UNLESS OTHERWISE NOTED.

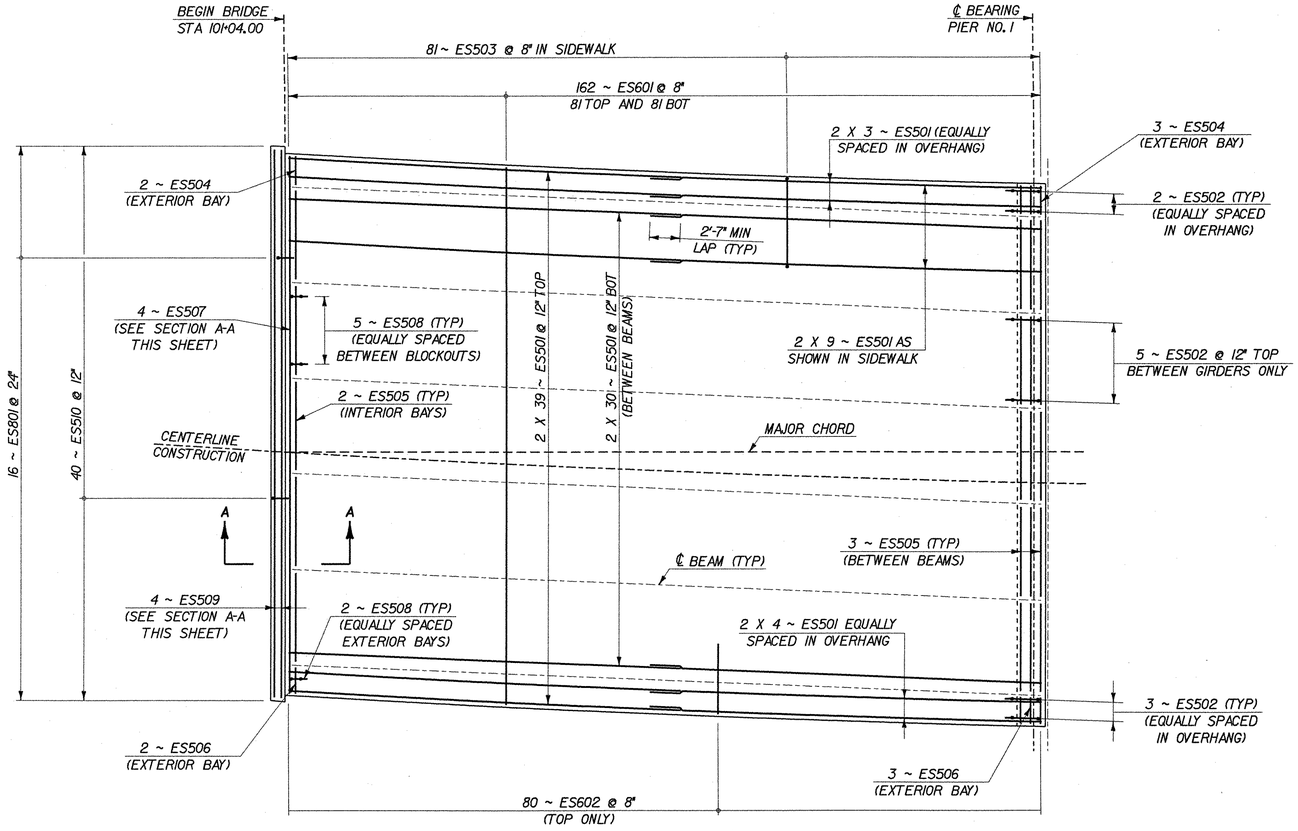
28. ALL OF THE EXISTING SUBSTRUCTURE INFORMATION SHOWN WITHIN THESE PLANS HAS BEEN OBTAINED THROUGH FIELD SURVEY, FIELD MEASUREMENTS AND REVIEW OF THE EXISTING 1960 BRIDGE DESIGN PLANS, AND ARE ASSUMED TO BE CORRECT. HOWEVER, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS CRITICAL TO THE CONSTRUCTION OF THE NEW STRUCTURE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE INFORMATION SHOWN IN THESE PLANS.

29. ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE, SHALL INCLUDE:
    a. REMOVAL OF EXISTING BRIDGE RAILING, CONCRETE BRUSH CURB, SIDEWALK AND CONCRETE BRIDGE DECK.
    b. REMOVAL OF ALL STEEL STRUCTURAL BEAMS, DIAPHRAGMS AND CROSS FRAMES.
    c. REMOVAL OF ALL THE BEARING DEVICES.
    d. REMOVAL OF PORTIONS OF THE EXISTING ABUTMENTS AND PIER AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
    e. ERECTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURES TO PREVENT DEBRIS FROM FALLING INTO THE PASSUMPSIC RIVER.

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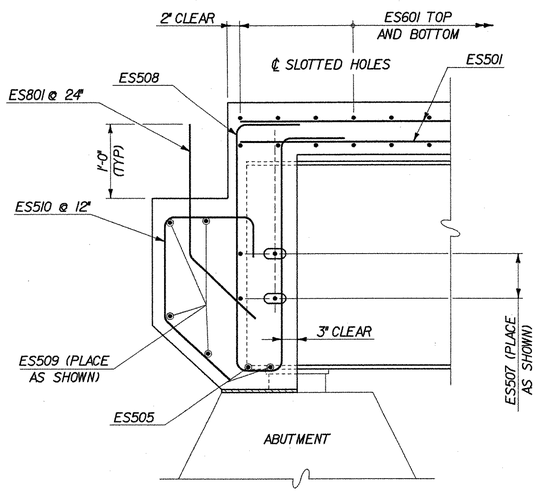
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
GENERAL NOTES	
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. mV549103\6conf\z1238nts.dgn	
Bridge Sheet No.	Sheet 12 of 34



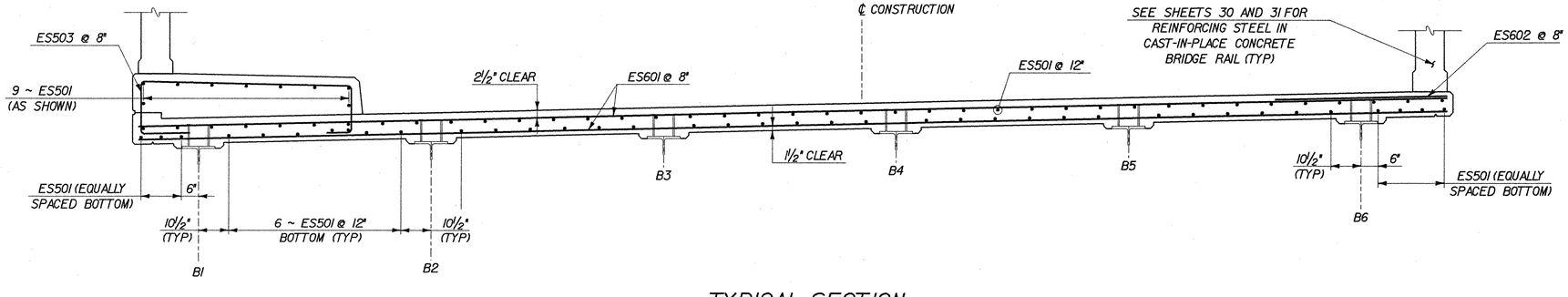
SPAN NO. 1 PLAN

SCALE: 3/16" = 1'-0"
(ES507 NOT SHOWN IN PIER FOR CLARITY.
SEE SHEET 22 OF 34 FOR LOCATION)



SECTION A-A

SCALE: 1" = 1'-0"
(PERPENDICULAR TO CENTERLINE BEARING)



TYPICAL SECTION

SCALE: ½" = 1'-0"
(SPAN 1 SHOWN, OTHERS SIMILAR)

REINFORCING NOTES

1. ALL REINFORCEMENT IN THE DECK, EXCEPT BARS IN CAST-IN-PLACE CONCRETE BRIDGE RAILING SHALL BE PAID UNDER ITEM 507.17, EPOXY COATED REINFORCING STEEL.
2. SOME RAILING BARS ARE TO BE CAST INTO THE DECK AND THE SIDEWALK. SEE SHEETS 30 AND 31 FOR DETAILS.
3. N.F. - NEAR FACE
   F.F. - FAR FACE
   E.F. - EACH FACE
4. SEE SHEET 27 FOR CURTAIN WALL ELEVATION.
5. SEE SHEET 22 FOR ADDITIONAL REINFORCING DETAILS AT EXPANSION JOINT.

N. MAG 1999

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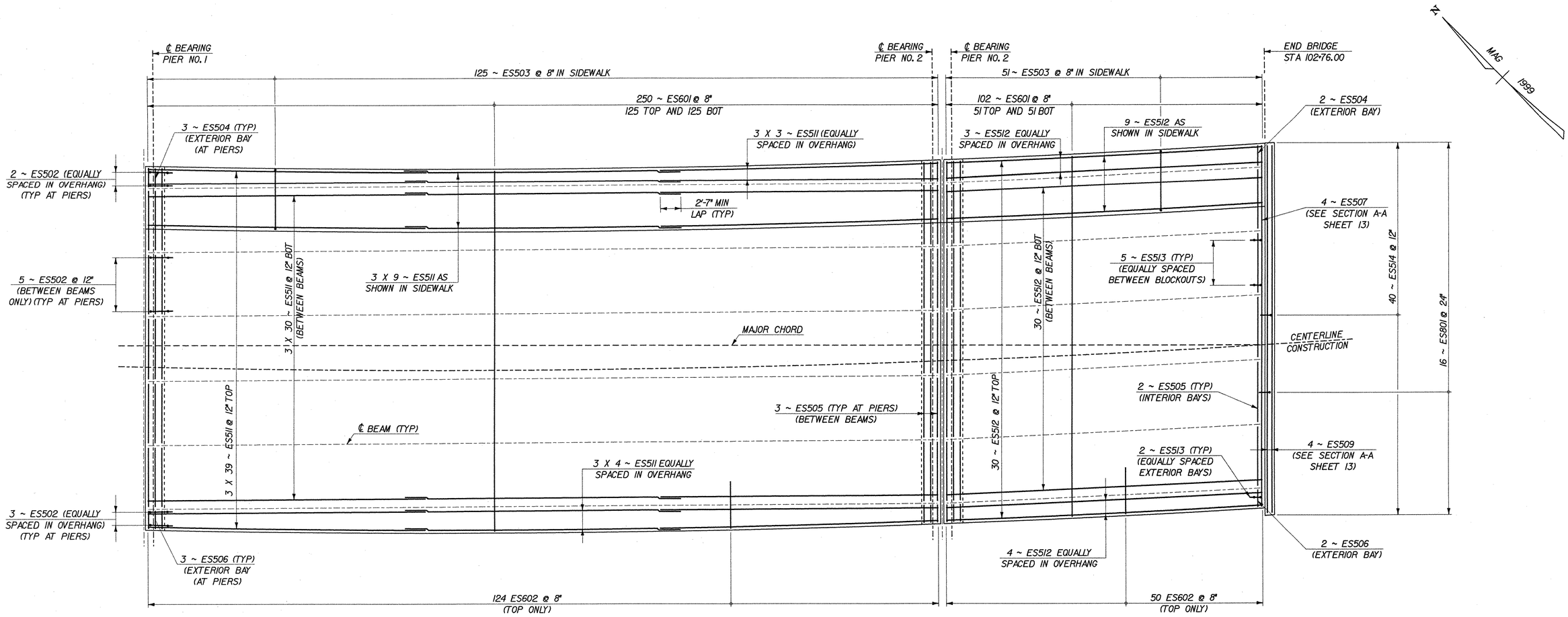
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

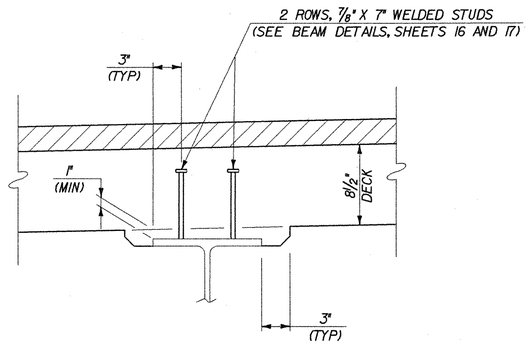
DECK REINFORCING - 1

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	m:\549103\6conf\zj238dr1.dgn		
Bridge Sheet No.		Sheet 13 of 34	



SPAN NO.2 AND NO.3 PLAN

SCALE: 3/16" = 1'-0"
(ES507 NOT SHOWN IN PIER FOR CLARITY.
SEE SHEET 22 OF 34 FOR LOCATION)



HAUNCH AND SHEAR CONNECTOR DETAILS

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

NOTE

1. SEE SHEET 13 OF 34 FOR REINFORCING NOTES.

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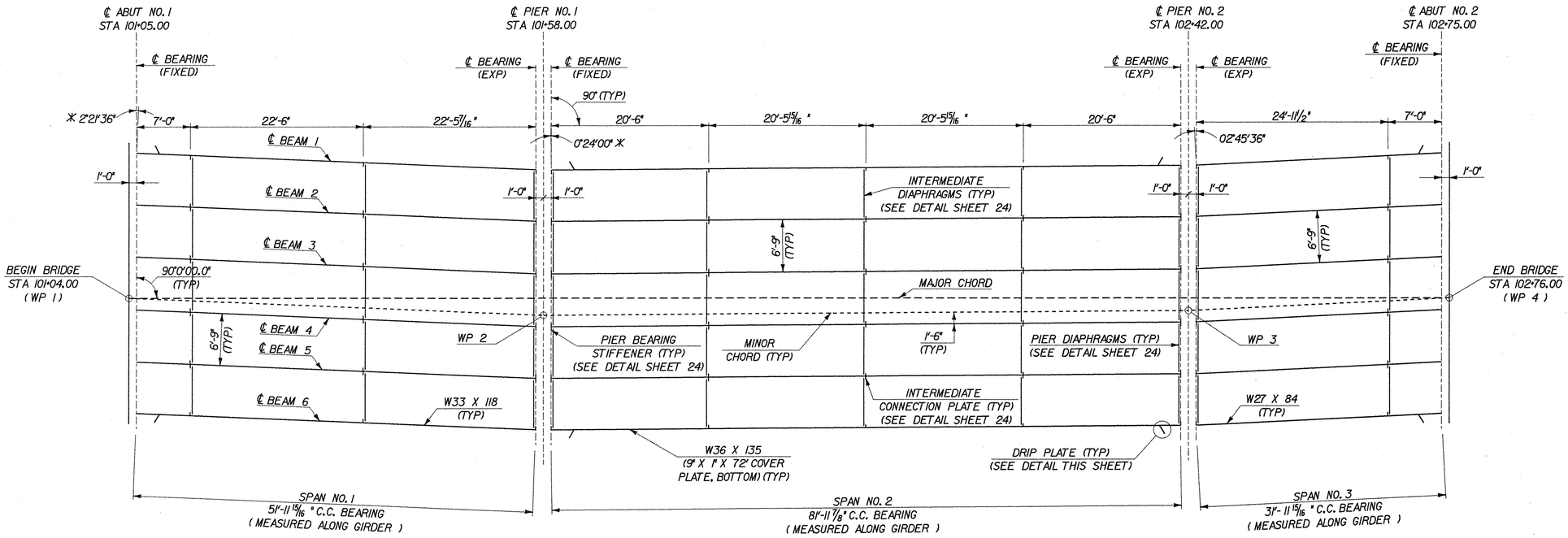
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

DECK REINFORCING - 2

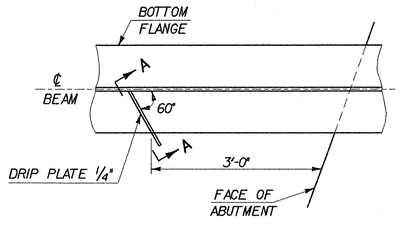
Designed By	T.GRANT	Drawn By	S.DEUA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	mN549103\6cont\zf238dr2.dgn		
Bridge Sheet No.		Sheet 14 of 34	



FRAMING PLAN

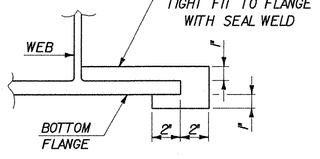
SCALE: 1/8" = 1'-0

✳ = ANGLE BETWEEN ℄ BEARING AND PERPENDICULAR TO ℄ OF BEAMS (MINOR CHORD)



PLAN DRIP PLATE

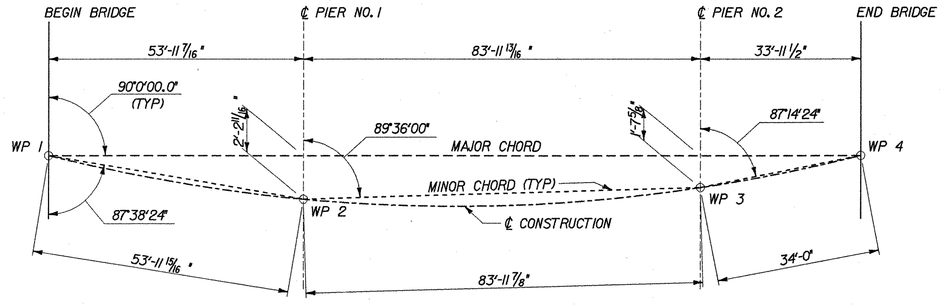
NOT TO SCALE



SECTION A - A

NOT TO SCALE

NOTE: DRIP PLATES SHALL BE PLACED ON OUTSIDE EDGE OF FASCIA BEAMS ON THE HIGH SIDE OF ALL PIERS AND ABUTMENTS OR AS INDICATED ON PROJECT PLANS.



CHORD LAYOUT

N.T.S.

(WORKING POINTS AT ABUTMENTS FOLLOW ORIGINAL LAYOUT (1960) AND ARE NOT AT THE CENTERLINE OF BEARINGS.)

McFARLAND-JOHNSON, INC.

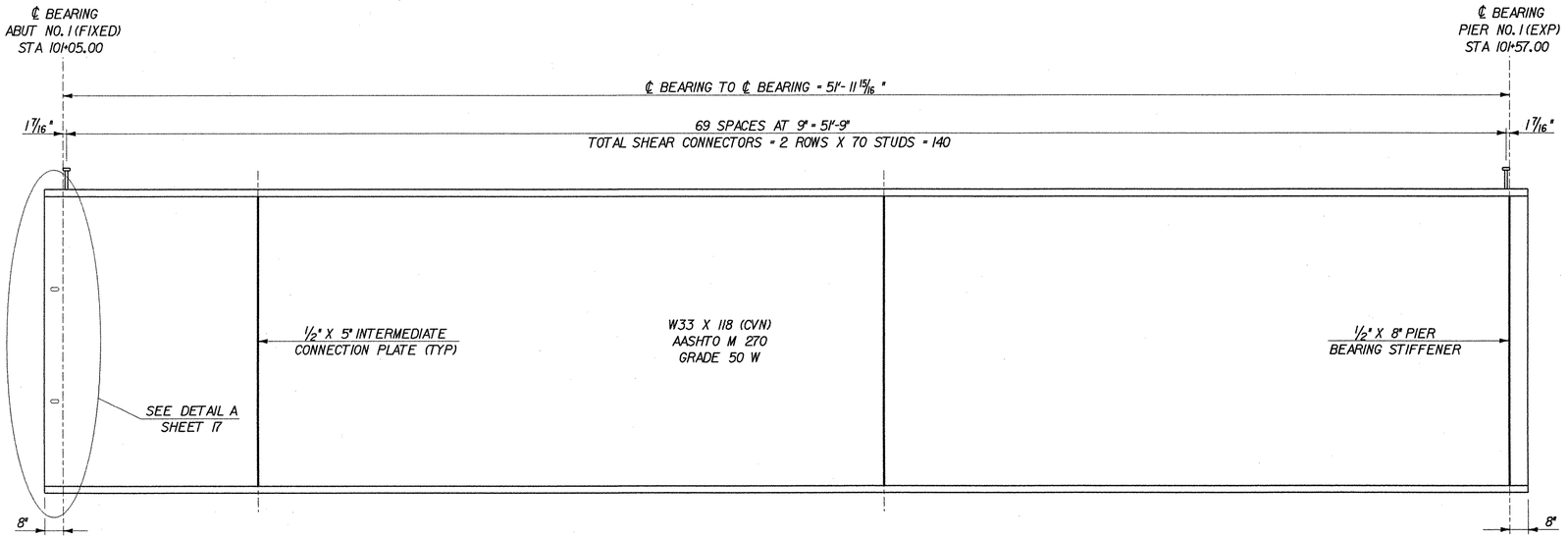
STATE OF VERMONT
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Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

FRAMING PLAN

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	m:\V549103\6cont\z1238fpl.dgn		
Bridge Sheet No.		Sheet 15 of 34	



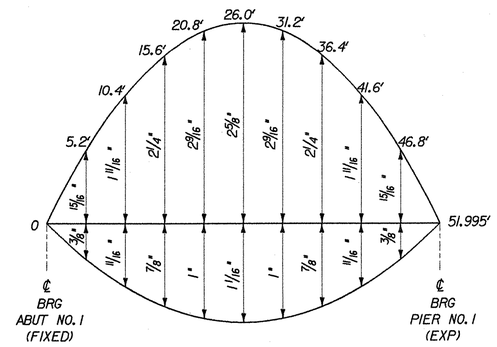
SPAN NO. 1 BEAM ELEVATION

NOT TO SCALE

(CVN) INDICATES CHARPY V-NOTCH TESTING
REQUIRED PER SPECIFICATION
(SEE NOTE 26, SHEET 12)

CAMBER DIAGRAM

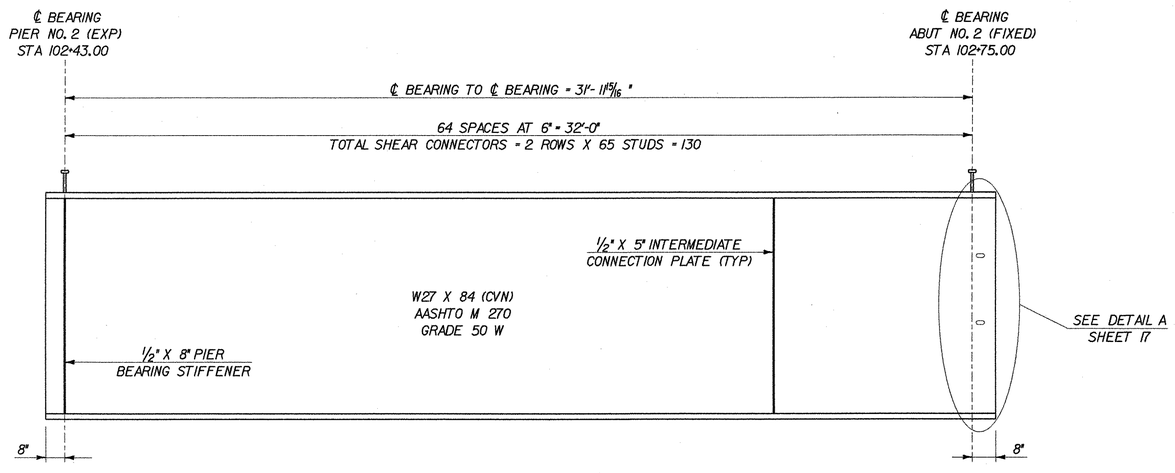
N.T.S.



DL DEFLECTION DIAGRAM

N.T.S.

CAMBER AND DEFLECTION MEASUREMENTS
ARE GIVEN IN INCHES AT TENTH POINTS



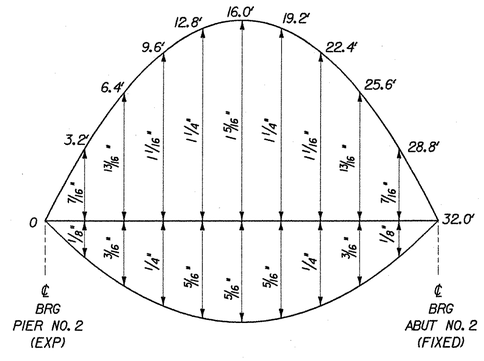
SPAN NO. 3 BEAM ELEVATION

NOT TO SCALE

(CVN) INDICATES CHARPY V-NOTCH TESTING
REQUIRED PER SPECIFICATION
(SEE NOTE 26, SHEET 12)

CAMBER DIAGRAM

N.T.S.



DL DEFLECTION DIAGRAM

N.T.S.

CAMBER AND DEFLECTION MEASUREMENTS
ARE GIVEN IN INCHES AT TENTH POINTS

McFARLAND-JOHNSON, INC.

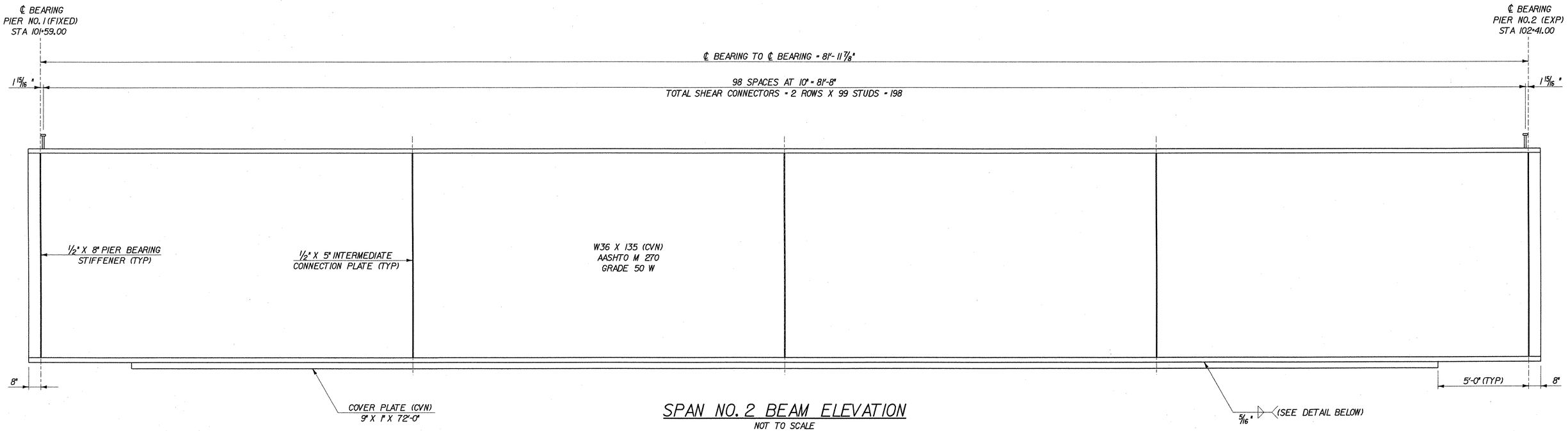
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
Highway No.	ALT VT 122	Log Sta. / Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

BEAM DETAILS - 1

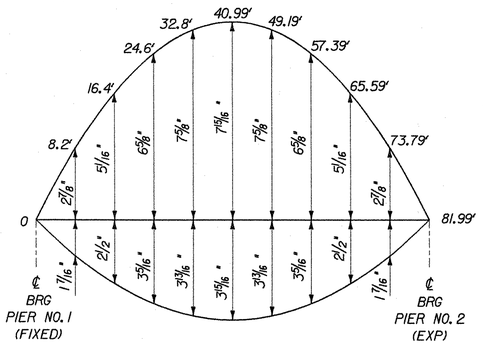
Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	T.GRANT	Date	10/01
Bridge Design Supervisor	M.ZYDEL	Date	10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.C.C. Info.	m\V549103\6cont\zj238gdl.dgn		
Bridge Sheet No.		Sheet	16 of 34



SPAN NO. 2 BEAM ELEVATION

NOT TO SCALE

(CVN) INDICATES CHARPY V-NOTCH TESTING REQUIRED PER SPECIFICATION (SEE NOTE 26, SHEET 12)



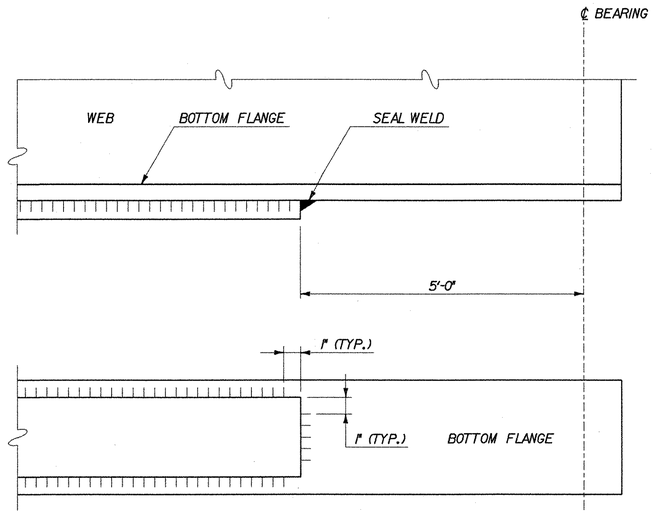
CAMBER DIAGRAM

N.T.S.

CAMBER AND DEFLECTION MEASUREMENTS ARE GIVEN IN INCHES AT TENTH POINTS

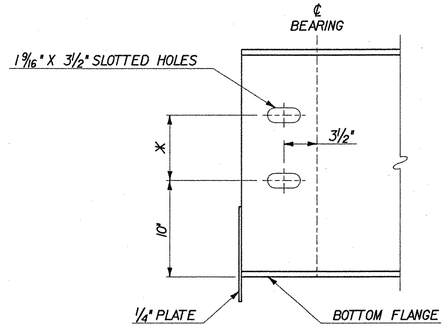
DL DEFLECTION DIAGRAM

N.T.S.



COVER PLATE WELD DETAIL

N.T.S.



X W24 BEAMS = 8"
W33 BEAMS = 11"

DETAIL A

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

SLOTTED HOLES ARE FOR HORIZONTAL REINFORCING BARS IN FRONT FACE OF CURTAIN WALL

McFARLAND-JOHNSON, INC.

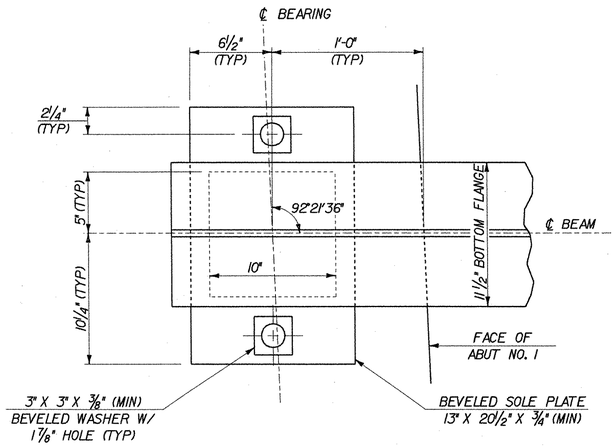
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

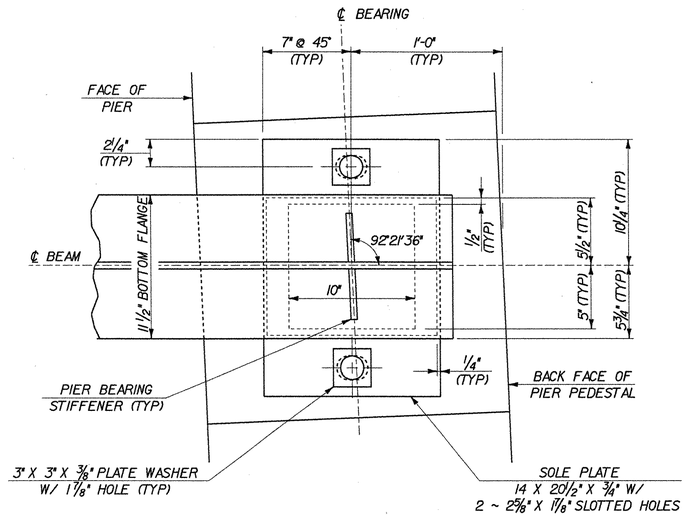
CENTER STREET OVER PASSUMPSIC RIVER

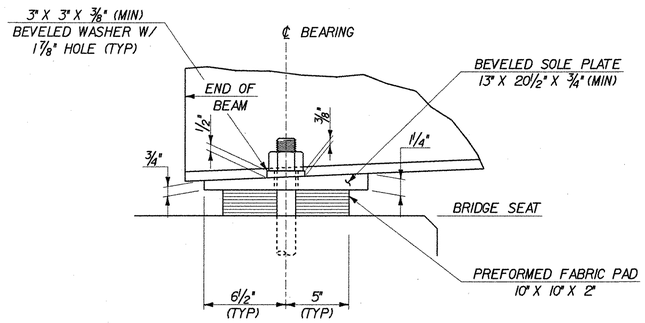
BEAM DETAILS - 2

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.C.C. Info.	m\549103\6cont\zj238gd2.dgn		
Bridge Sheet No.		Sheet 17 of 34	

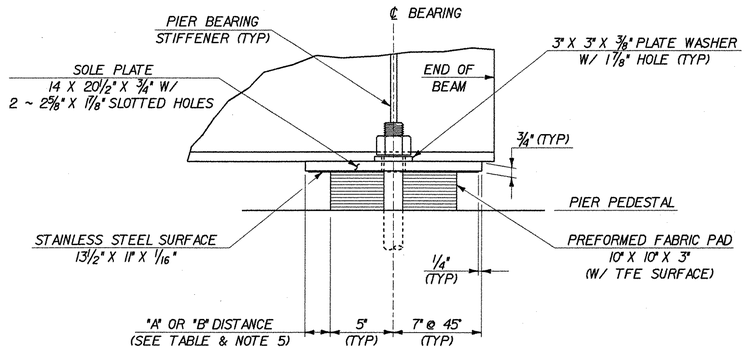


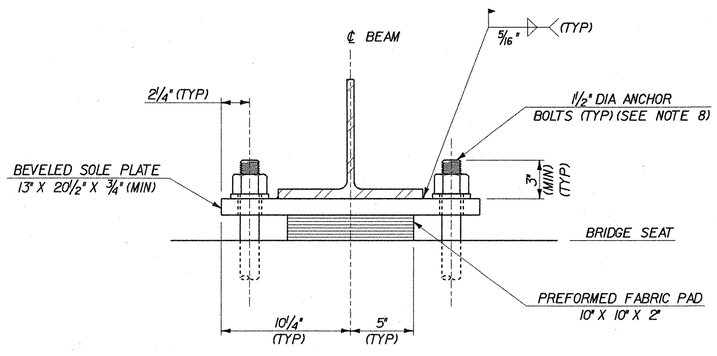
PLAN VIEW



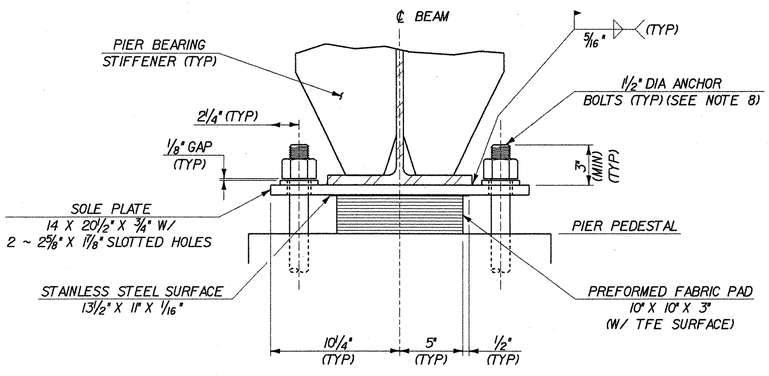


SIDE ELEVATION





FRONT VIEW



FIXED BEARING AT ABUTMENT NO. 1

SCALE: 2" = 1'-0"

EXPANSION BEARING AT PIER NO. 1

SCALE: 2" = 1'-0"

BEARING NOTES

1. BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 & 731.
2. BEARINGS SHALL BE PAID FOR AS ITEM 531.10, "BEARING DEVICE ASSEMBLY".
3. SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED TO INCLUDE WELDING AND BONDING PROCEDURES.
4. THE CONCRETE SURFACE UNDER THE BEARING DEVICE SHALL BE LEVEL.
5. "A" DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER ALL DEAD LOAD HAS BEEN APPLIED. "B" DISTANCE IS LISTED FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS POURED. THE DIFFERENCE IS THE THEORETICAL ELONGATION OF THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION. THE FINAL "A" DISTANCE, AS SHOWN IN THE TABLE, MUST BE ATTAINED WITHIN ⅛ INCH.
6. DESIGN CRITERIA:
   A. BEARING PAD TO CONCRETE DESIGN PRESSURE = 1000 PSI MAXIMUM.
   B. MINIMUM DESIGN ROTATION = 0.015 RADIANS.
   C. DESIGN LOAD PER BEARING (KIPS):

		PIER NO. 1		PIER NO. 2		
LOAD	ABUT NO. 1	BRG NO. 1	BRG NO. 2	BRG NO. 1	BRG NO. 2	ABUT NO. 2
R_{DL}	25	25	37	37	15	15
R_{LL+I}	60	60	61	61	55	55
R_{SDL}	15	15	23	23	10	10

7. ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS STEEL) SHALL BE AASHTO M-270, GRADE 36.
8. ANCHOR BOLTS SHALL BE SWEDGED AND GALVANIZED WITH 4" THREADS. THREADS SHALL BE BURRED TO PREVENT NUT REMOVAL. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 15" EMBEDMENT INTO THE CONCRETE, AND 6" MIN. INTO EXISTING STRUCTURE. ANCHOR BOLTS, NUTS AND WASHERS SHALL MEET THE REQUIREMENTS OF SUBSECTION 714.08 OF THE SPECIAL PROVISIONS USING ASTM 307.
9. ALL BEARING DEVICES SHALL BE GALVANIZED OR METALLIZED. AREAS OF GALVANIZING OR METALLIZING DAMAGED BY THE FIELD WELDS OR HANDLING SHALL BE REPAIRED PER SUPPLEMENTAL SPECIFICATION 513.
10. ALL HORIZONTAL DIMENSIONS SHOWN @ 45° ARE FINAL CONDITION DIMENSIONS.
11. CONTRACTOR SHALL GRIND EXISTING SEATS OR PROVIDE GALVANIZED SHIMS AS REQUIRED TO MATCH THE SEAT ELEVATIONS SHOWN ON SHEET 27 OF 34.

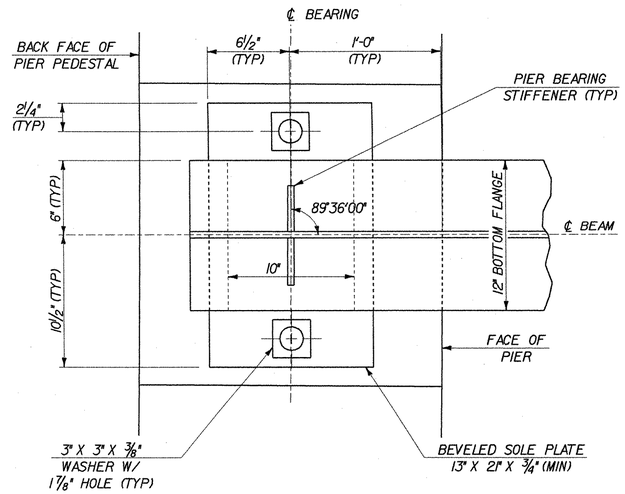
PIER NO. 1 TEMPERATURE SETTING TABLE

TEMP	"A" DIST	"B" DIST
0° F	2 3/16"	2 1/16"
15° F	2 1/8"	2 3/16"
30° F	2 1/16"	2 5/16"
45° F	2"	2 1/4"
60° F	1 15/16"	2 3/16"
75° F	1 7/8"	2 1/8"
90° F	1 13/16"	2 1/16"
105° F	1 3/4"	2"

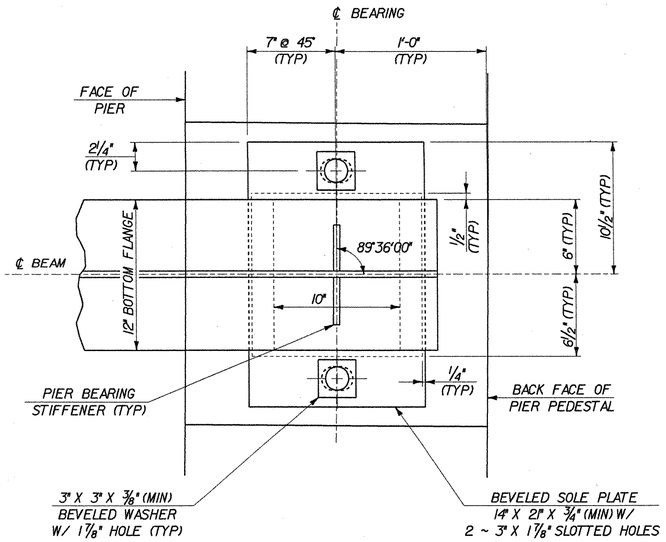
STATE OF VERMONT
AGENCY OF TRANSPORTATION

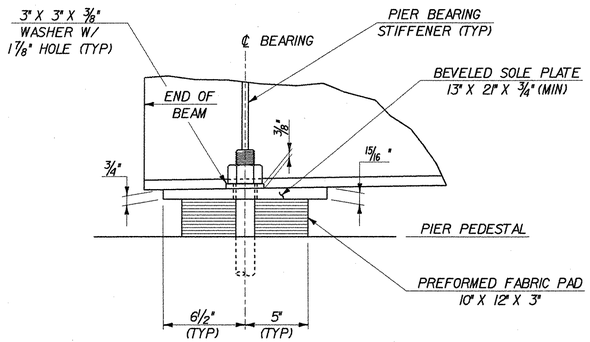
Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
BEARING DETAILS - 1	
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD — Date 10/01	Bridge Design Supervisor M.ZYDEL — Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.C.C. Info. m:\549103\6cont\zj238bdl.dgn	
Bridge Sheet No.	Sheet 18 of 34

McFARLAND-JOHNSON, INC.

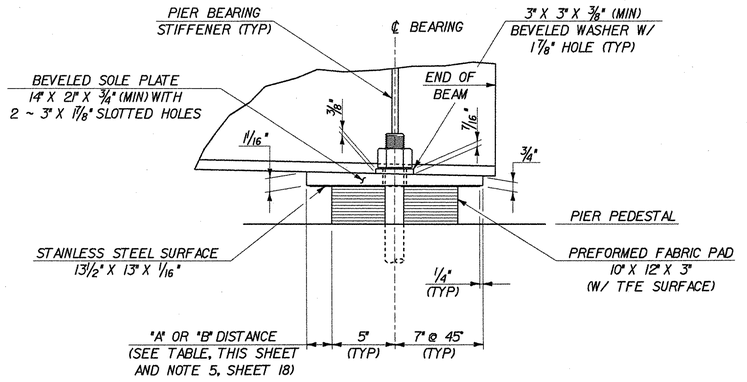


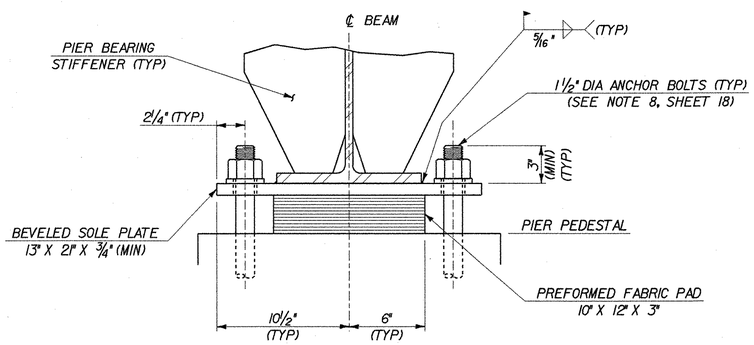
PLAN VIEW



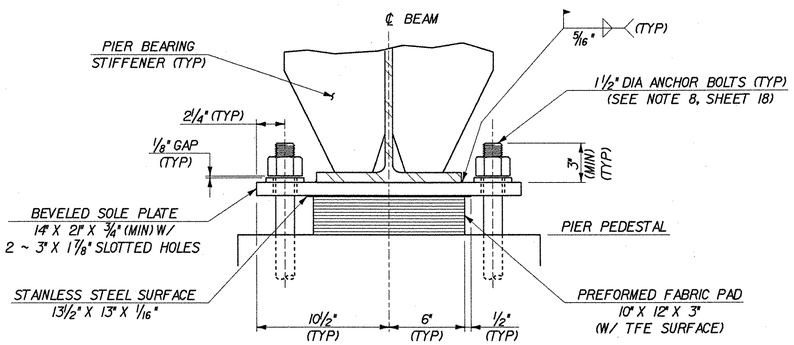


SIDE ELEVATION





FRONT VIEW



FIXED BEARING AT PIER NO. 1

SCALE: 2" = 1'-0"

EXPANSION BEARING NO. 1 AT PIER NO. 2

SCALE: 2" = 1'-0"

BEARING NO. 1 AT PIER NO. 2 TEMPERATURE SETTING TABLE

TEMP	"A" DIST	"B" DIST
0° F	2 5/16"	2 7/8"
15° F	2 3/16"	2 3/4"
30° F	2 1/8"	2 11/16"
45° F	2"	2 9/16"
60° F	1 7/8"	2 1/2"
75° F	1 13/16"	2 3/8"
90° F	1 11/16"	2 5/16"
105° F	1 5/8"	2 3/16"

"A" IS THE DISTANCE WITH ALL DEAD LOAD IN PLACE
"B" IS THE DISTANCE BEFORE DECK IS IN PLACE

McFARLAND-JOHNSON, INC.

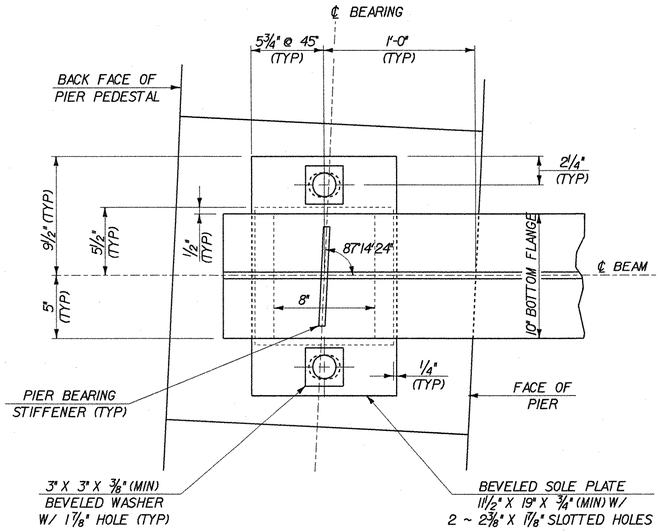
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
Highway No.	ALT VT 122	Log Sta.	
		Surv. Sta.	

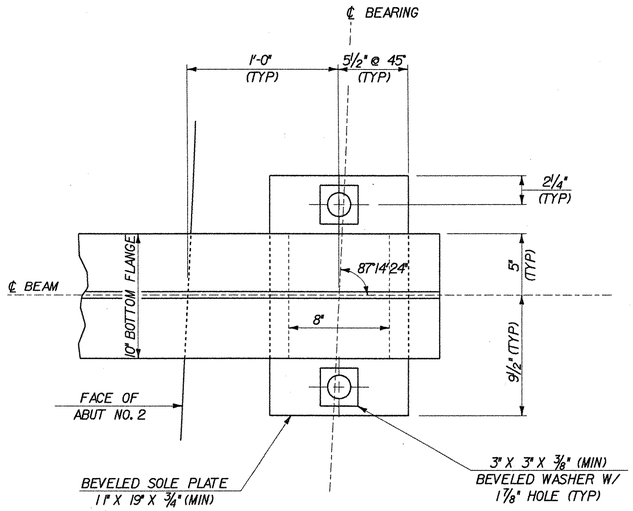
CENTER STREET OVER PASSUMPSIC RIVER

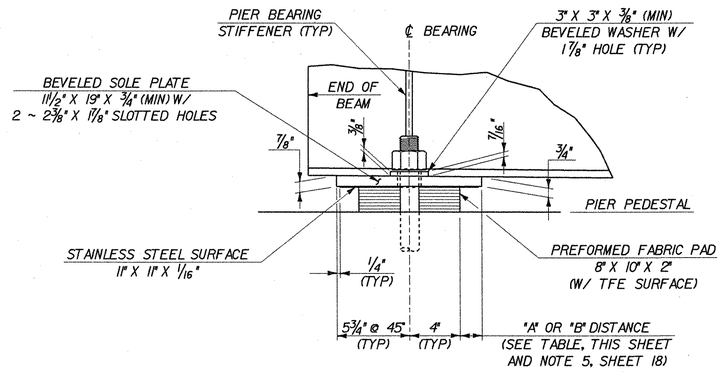
BEARING DETAILS - 2

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.C.C. Info.	m\549103\6cont\zj238bd2.dgn		
Bridge Sheet No.		Sheet 19	of 34

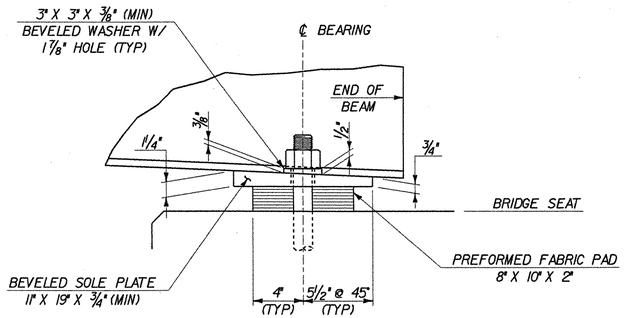


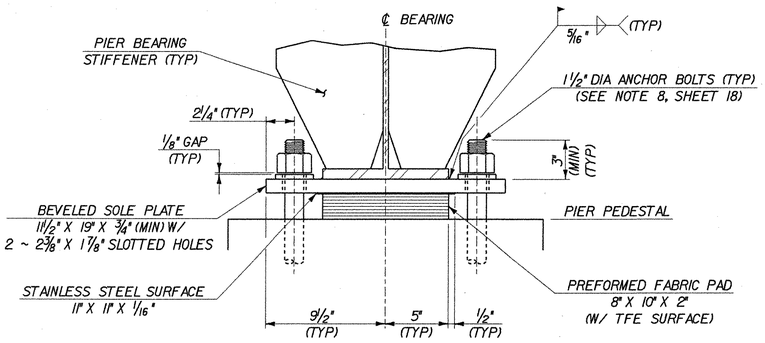
PLAN VIEW



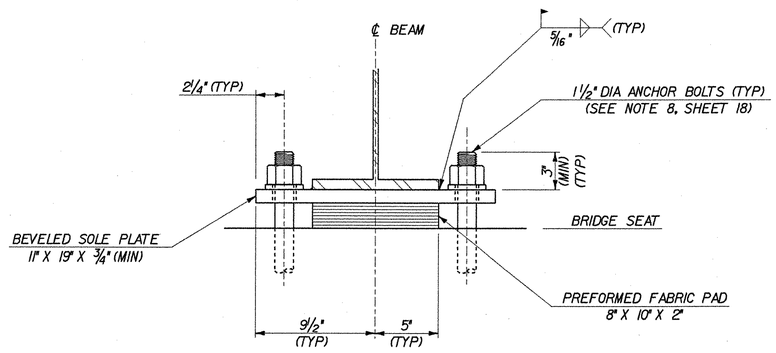


SIDE ELEVATION





FRONT VIEW



EXPANSION BEARING NO. 2 AT PIER NO. 2

SCALE: 2" = 1'-0"

FIXED BEARING AT ABUTMENT NO. 2

SCALE: 2" = 1'-0"

BEARING NO. 2 AT PIER NO. 2 TEMPERATURE SETTING TABLE

TEMP	"A" DIST	"B" DIST
0° F	1⅞"	2"
15° F	1¾"	1⅝"
30° F	1¾"	1⅞"
45° F	1¾"	1⅞"
60° F	1⅝"	1¾"
75° F	1⅝"	1¾"
90° F	1⅝"	1¾"
105° F	1⅝"	1⅝"

"A" IS THE DISTANCE WITH ALL DEAD LOAD IN PLACE
"B" IS THE DISTANCE BEFORE DECK IS IN PLACE

STATE OF VERMONT
AGENCY OF TRANSPORTATION

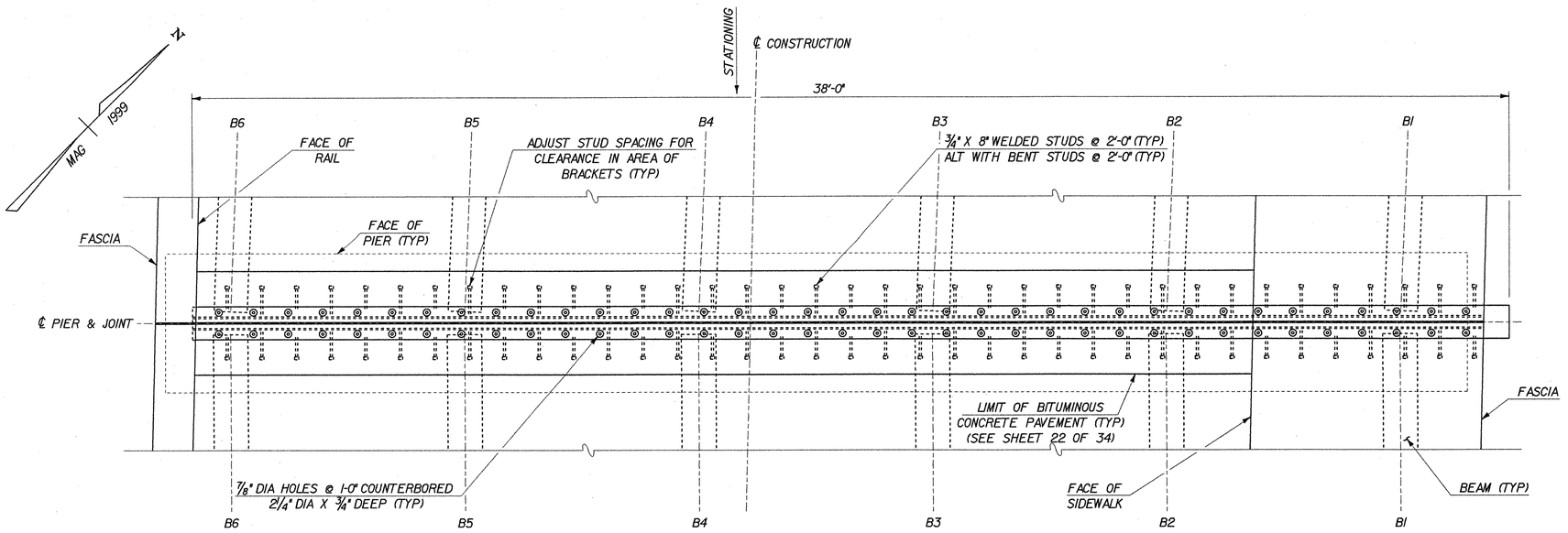
Town Of	LYNDON	Bridge No.	2
Highway No.	ALT VT 122	Log Sta.	
		Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

BEARING DETAILS - 3

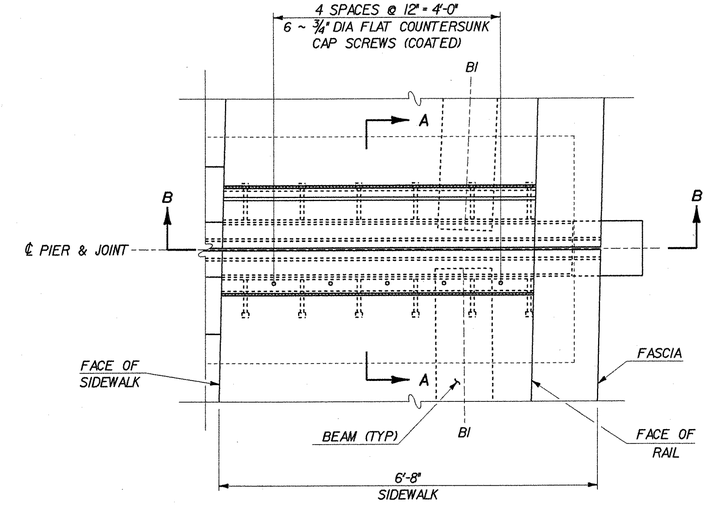
Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	mV549103\6conf\zJ238bd3.dgn		
Bridge Sheet No.		Sheet 20 of 34	

McFARLAND-JOHNSON, INC.



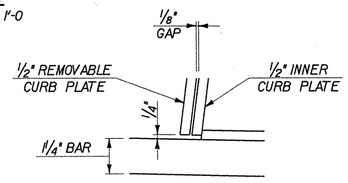
PLAN

SCALE: ½" = 1'-0



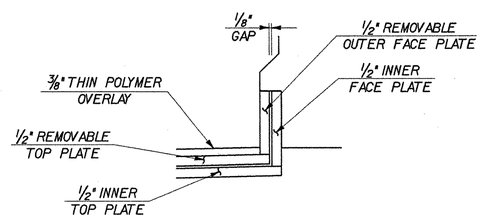
TYPICAL SIDEWALK PLAN

SCALE: ¾" = 1'-0



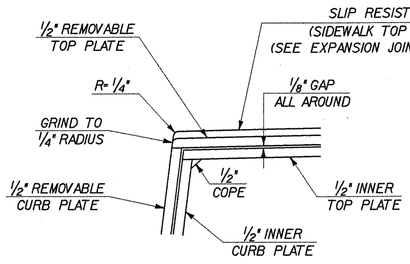
DETAIL B

SCALE: 3" = 1'-0"



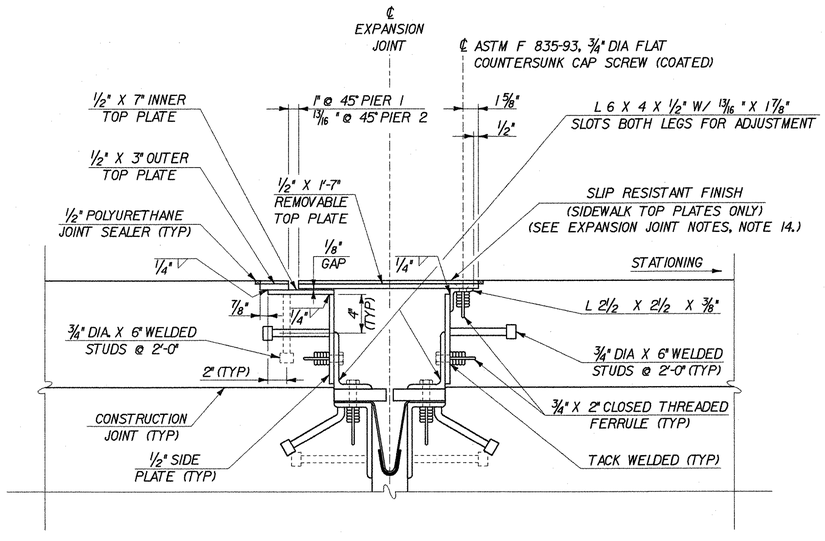
DETAIL C

SCALE: 3" = 1'-0"



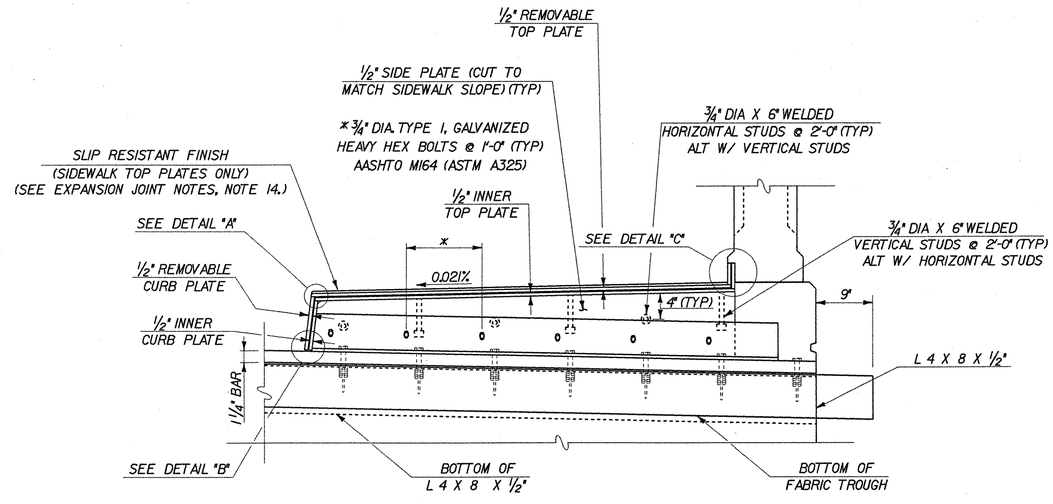
DETAIL A

SCALE: 3" = 1'-0"



SECTION A-A

SCALE: 1½" = 1'-0"
(NORMAL TO BEARING)
(REINFORCING NOT SHOWN)



SECTION B-B

SCALE: 1" = 1'-0"

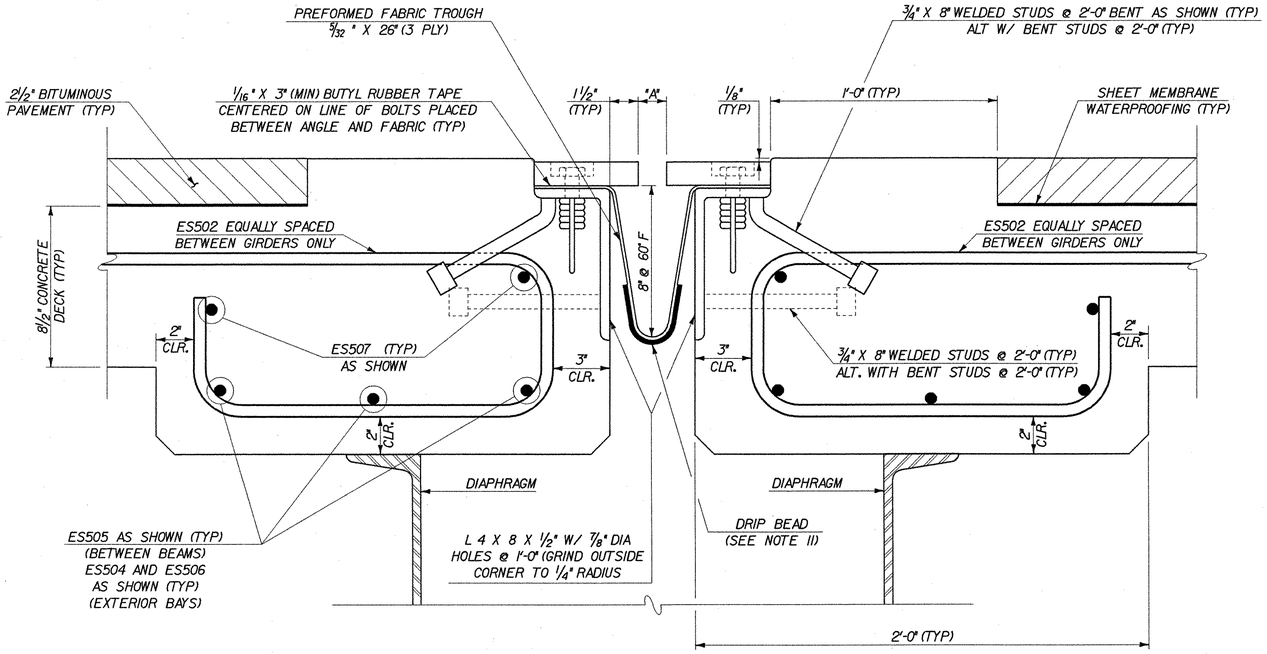
NOTE:

FOR EXPANSION JOINT NOTES, SEE SHEET 22.

McFARLAND-JOHNSON, INC.

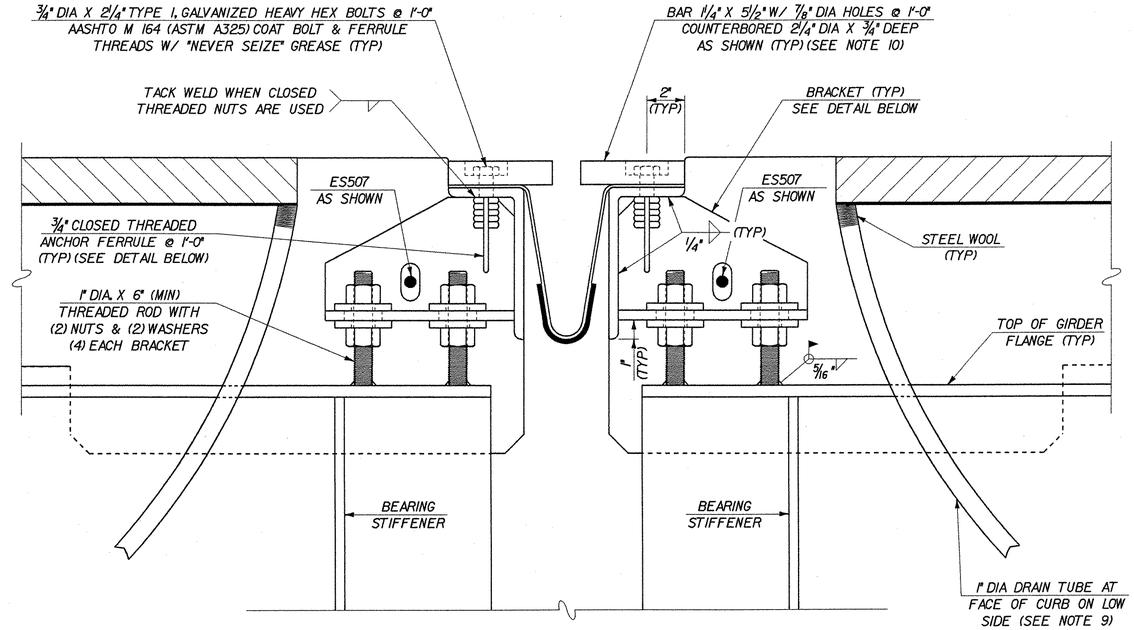
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
EXPANSION JOINT DETAILS - 1	
Designed By T.GRANT/S.MERKWAN	Drawn By S.DELIA/S.MERKWAN
Checked By T.GRANT/R.WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m\V549103\6conh\zj238jdld.dgn	
Bridge Sheet No.	Sheet 21 of 34



TYPICAL SECTION BETWEEN GIRDERS

SCALE: 3" = 1'-0"
(NORMAL TO BEARING)

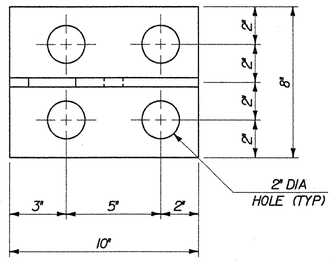


TYPICAL SECTION AT GIRDERS

SCALE: 3" = 1'-0"
(NORMAL TO BEARING)

EXPANSION JOINT NOTES

1. DETAILS ON THIS SHEET ARE FOR ITEM 516.10, "BRIDGE EXPANSION JOINT".
2. PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS AND SHALL CONFORM TO SUBSECTION 707.07 OF THE STANDARD SPECIFICATIONS.
3. BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO SPECIFICATION M-198, TYPE II.
4. THE FINAL FINISH OF THE EXPANSION DEVICE SHALL BE COVERED DURING THE PLACING OF BRIDGE DECK CONCRETE.
5. ALL STEEL COMPONENTS SHALL BE AASHTO M270 GRADE 36 GALVANIZED OR METALIZED AS PER SUBSECTION 516.04. THREADED RODS AND NUTS SHALL CONFORM TO SUBSECTION 714.04.
6. THE ITEM "BRIDGE EXPANSION JOINT" SHALL INCLUDE THE FABRICATION AND ERECTION OF THE COMPLETE JOINT ASSEMBLY INCLUDING ALL STEEL PLATES, BRACKETS, ANGLES, WELDED STUDS OR RODS, PREFORMED FABRIC DRAIN TROUGH MATERIAL AND PLASTIC DRAIN TUBES, BUTYL RUBBER TAPE AND ANY OTHER MISCELLANEOUS MATERIAL NECESSARY TO INSTALL JOINT.
7. THE 4 X 8 X 1/2" ANGLES SHALL BE FURNISHED AS ONE CONTINUOUS PIECE. THE 1 1/4" X 5 1/2" BARS EACH SIDE OF THE JOINT SHALL BE PROVIDED IN TWO EQUAL LENGTHS.
8. COAT CONCRETE CONTACT SURFACES WITH EPOXY BONDING COMPOUND MEETING THE REQUIREMENTS OF SUBSECTION 719.02 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516.10, "BRIDGE EXPANSION JOINT".
9. A 1" DIAMETER PLASTIC DRAIN TUBE (PER STD SPEC 740.01) SHALL BE INSTALLED AS SHOWN AT THE FACE OF CURB. THE UPPER END IS TO BE PLUGGED WITH STEEL WOOL AND THE LOWER END IS TO EXTEND BELOW THE BOTTOM OF THE ADJACENT STRINGER. THE DRAIN TUBES SHALL BE FASTENED TO THE STRINGERS USING A METHOD APPROVED BY THE ENGINEER.
10. FILL COUNTERBORED HOLES WITH HOT POURED JOINT SEALER AFTER BOLT INSTALLATION. PAYMENT FOR THE WORK SHALL BE SUBSIDIARY TO ITEM 516.10.
11. A DRIP BEAD OF 1/4" X 7" STRIP OF PREFORMED MATERIAL SHALL BE CEMENTED TO THE BOTTOM OF THE FABRIC TROUGH USING AN ADHESIVE APPROVED BY THE MANUFACTURER. THE DRIP BEAD SHALL BE APPLIED 1" FROM THE DOWNSPOUT END OF THE TROUGH.
12. FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATION.
13. THE EXPANSION JOINT SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT.
14. THE FABRICATOR SHALL PROVIDE A SLIP RESISTANT FINISH ON THE SURFACE OF THE SIDEWALK TOP PLATES. THE FINISH SHALL INCORPORATE SAND, GRIT, OR OTHER APPROVED MATERIAL, AND SHALL BE SPECIFIED ON THE SHOP DRAWINGS. ALL ASSOCIATED COSTS SHALL BE INCIDENTAL TO ITEM 516.10, BRIDGE EXPANSION JOINT.



BRACKET PLAN

SCALE: 3" = 1'-0"

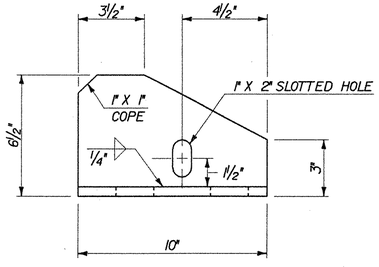


ANCHOR FERRULE DETAIL

SCALE: 3" = 1'-0"

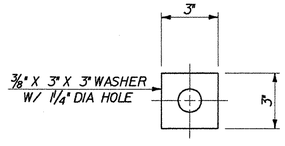
NOTE: CLOSED THREADED FERRULE NUTS WITHOUT ANCHOR LOOPS MAY BE USED — PER MANUFACTURER (DAYTON/RICHMOND) OR APPROVED EQUAL

ALL PLATES 1/2" THICKNESS



BRACKET ELEVATION

SCALE: 3" = 1'-0"



WASHER FOR BRACKET

SCALE: 3" = 1'-0"

PIER NO. 1

TEMP	"A" DIST
0° F	1/2"
15° F	7/16"
30° F	3/8"
45° F	5/16"
60° F	1/4"
75° F	3/16"
90° F	1/8"
105° F	1/16"

PIER NO. 2

TEMP	"A" DIST
0° F	1 1/16"
15° F	15/16"
30° F	13/16"
45° F	11/16"
60° F	9/16"
75° F	7/16"
90° F	1/4"
105° F	1/8"

"A" IS THE SETTING BEFORE DEAD LOADS ARE IN PLACE

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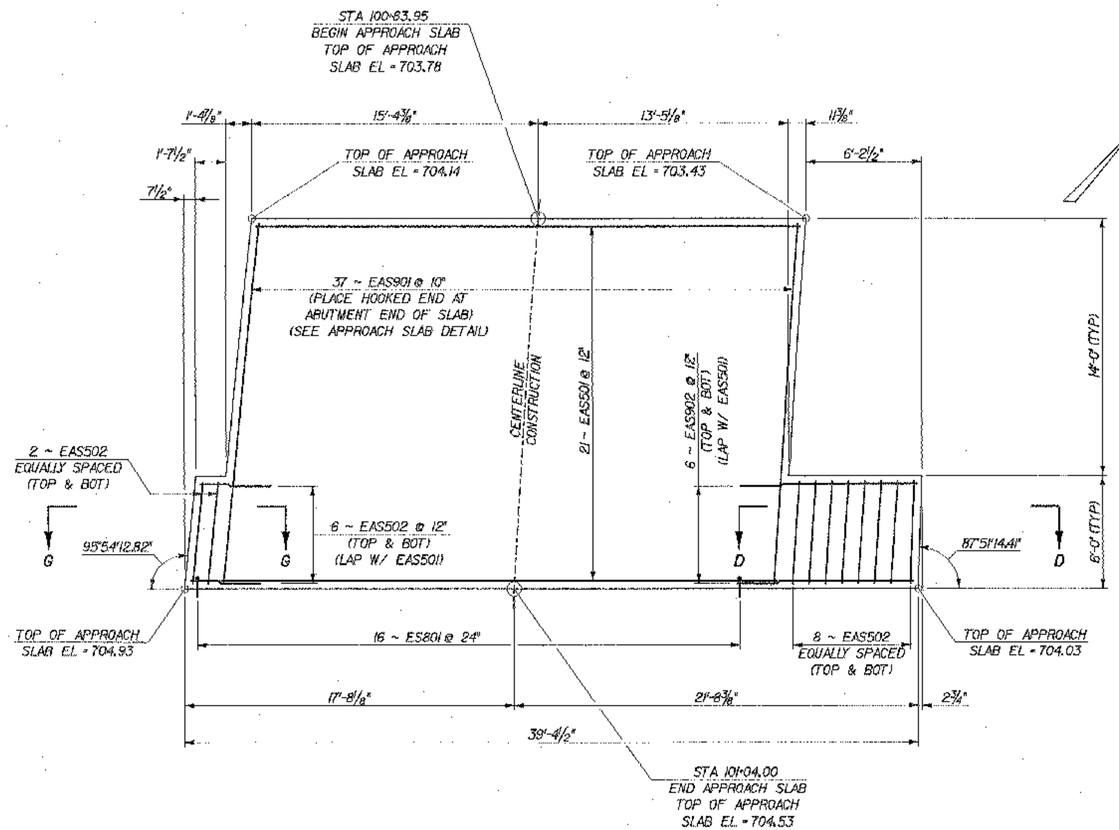
STATE OF VERMONT
AGENCY OF TRANSPORTATION

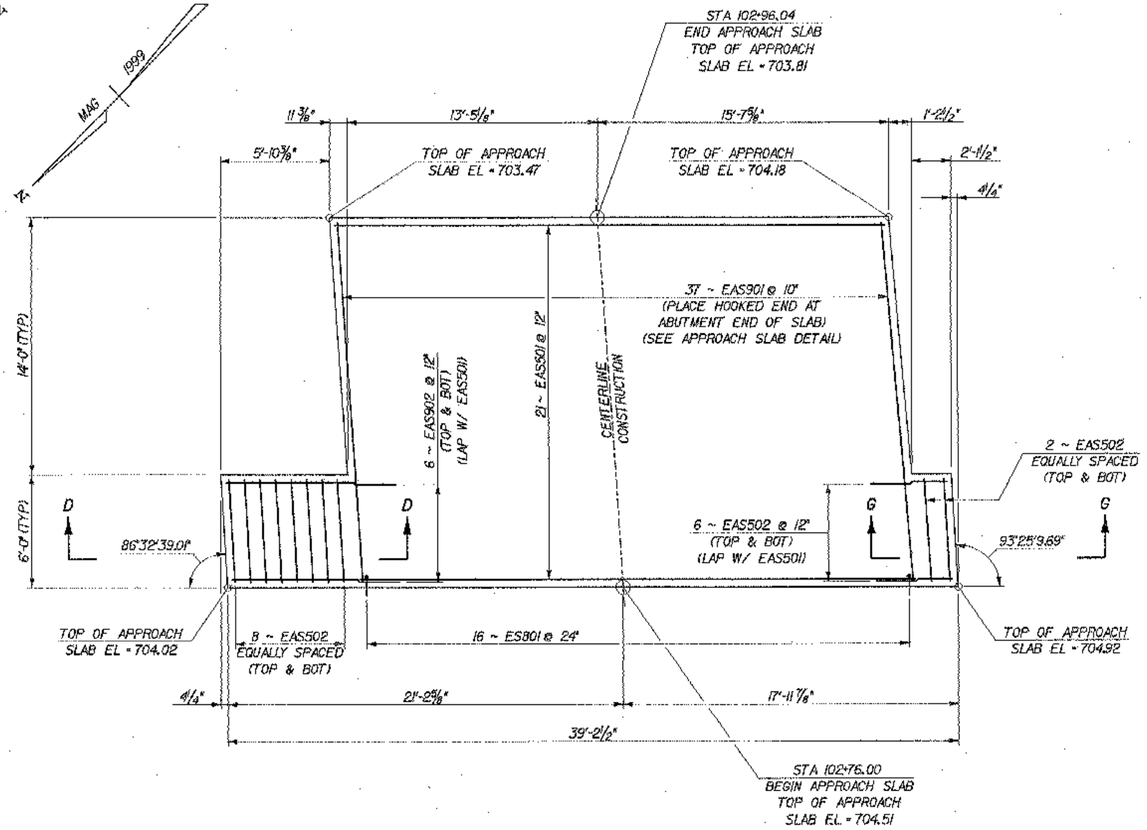
Town Of	LYNDON	Bridge No.	2
Highway No.	ALT VT 122	Log Sta.	
		Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

EXPANSION JOINT DETAILS - 2

Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m:\549103\6cont\zj238jd2.dgn	
Bridge Sheet No.	Sheet 22 of 34



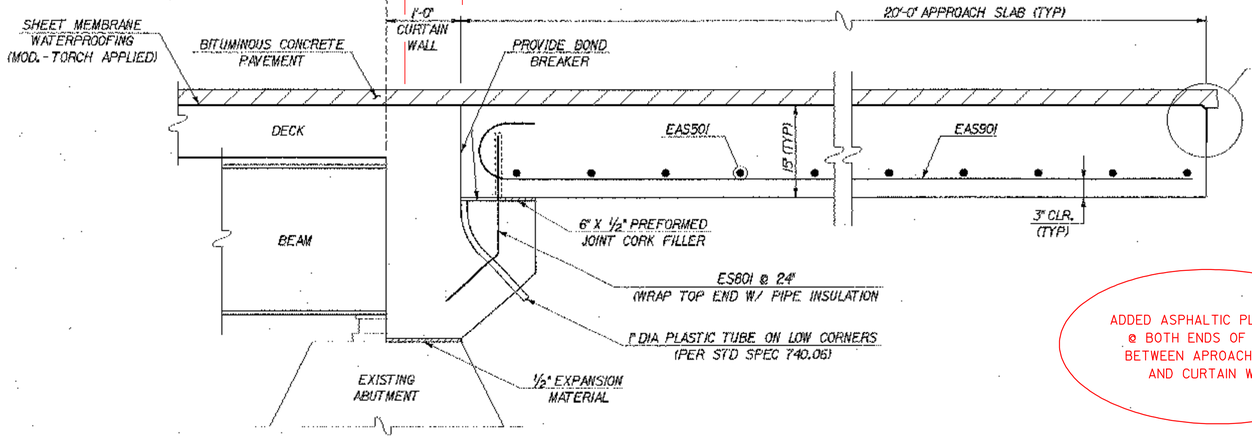


END OF MEMBRANE STAYED 9" BACK FOR PLUG JOINT AT BOTH ENDS OF BRIDGE

NOTE - MEMBRANE WAS NOT PLACED ON APPROACH SLABS PER PROJECT MANAGER

APPROACH SLAB NO. 1 PLAN

SCALE: 1/4" = 1'-0"



TYPICAL APPROACH DETAIL

SCALE: 1" = 1'-0"

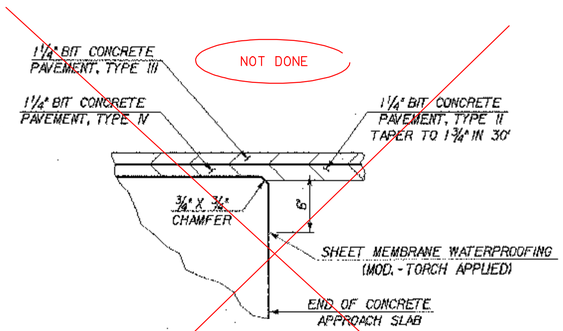
(PERPENDICULAR TO CENTERLINE BEARING)

ADDED ASPHALTIC PLUG JOINT @ BOTH ENDS OF BRIDGE BETWEEN APROACH SLAB AND CURTAIN WALL

APPROACH SLAB NO. 2 PLAN

SCALE: 1/4" = 1'-0"

NOT DONE



DETAIL FOR SHEET MEMBRANE AT APPROACH SLAB ENDS

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

NOTES

1. FOR SECTIONS D-D AND G-G, SEE SHEET 32.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

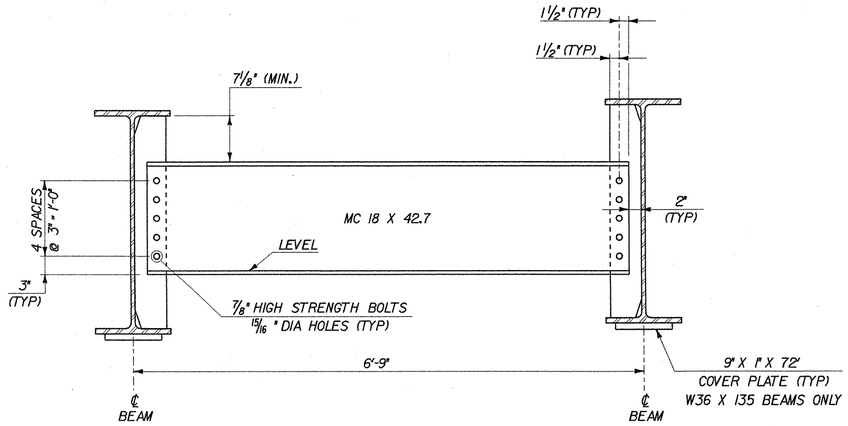
Town Of LYNDON	Bridge No. 2
	Log Sta.
Highway No. ALT VT 122	Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER

APPROACH SLAB DETAILS

Designed By T.GRANT/S.MERKWAN	Drawn By S.DELIA/S.MERKWAN
Checked By T.GRANT/R.WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
LG.C. Info. m:\548103\6conhz1238cpe.dgn	
Bridge Sheet No.	Sheet 23 of 34

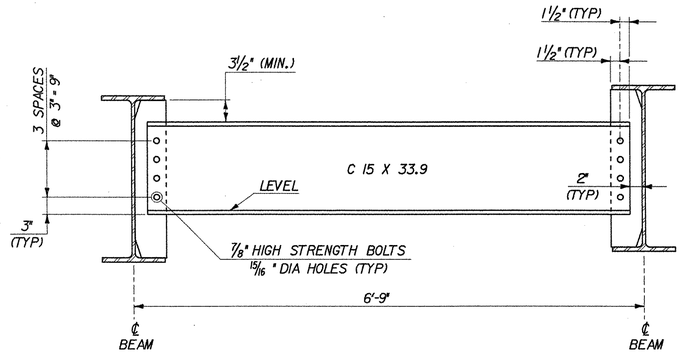
McFARLAND-JOHNSON, INC.



INTERMEDIATE DIAPHRAGMS FOR W33 X 118 AND W36 X 135 BEAMS

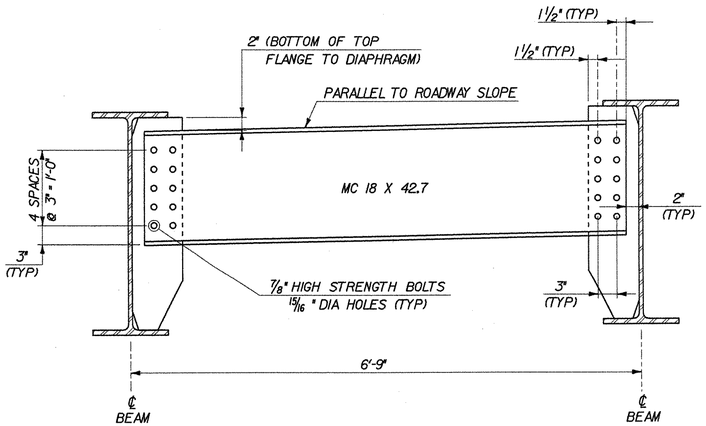
SCALE: 1" = 1'-0

(W36 X 135 SHOWN, W33 X 118 SIMILAR)



INTERMEDIATE DIAPHRAGMS FOR W27 X 84 BEAMS

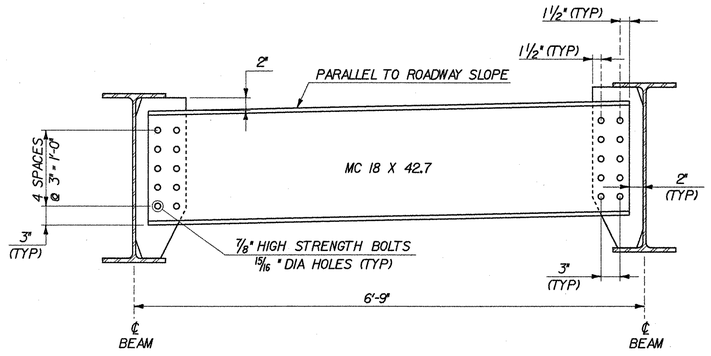
SCALE: 1" = 1'-0



PIER DIAPHRAGMS FOR W33 X 118 AND W36 X 135 BEAMS

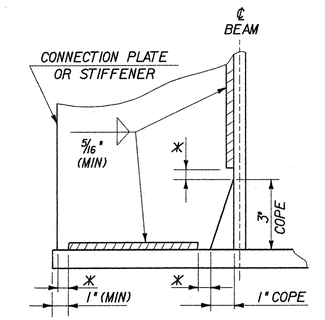
SCALE: 1" = 1'-0

(W36 X 135 SHOWN, W33 X 118 SIMILAR)



PIER DIAPHRAGMS FOR W27 X 84 BEAMS

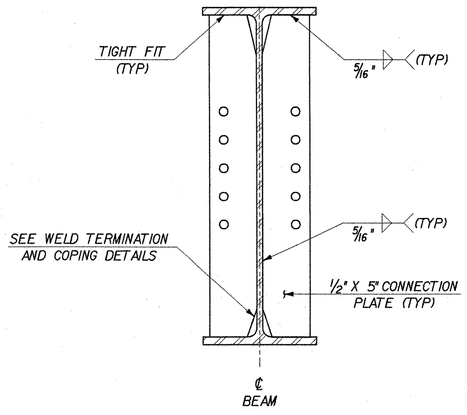
SCALE: 1" = 1'-0



* NO WELD FOR ¼" (MIN) ½" (MAX)
(EXCEPT MUST MAINTAIN 1" (MIN) FROM EDGE OF FLANGE)

WELD TERMINATION AND COPING DETAILS

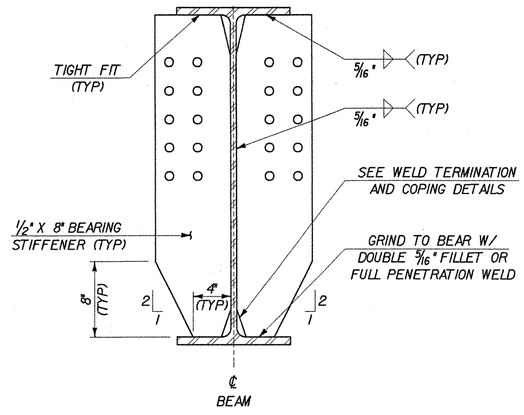
NOT TO SCALE



INTERMEDIATE CONNECTION PLATE DETAIL

SCALE: ½" = 1'-0

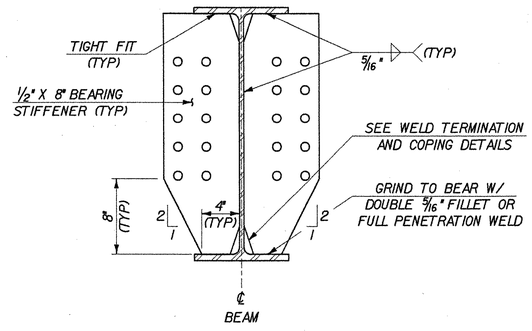
(PLATE SHOWN ON W36 X 135 BEAM. W33 X 118 AND W27 X 84 SIMILAR)



PIER BEARING STIFFENER DETAIL FOR W33 X 118 AND W36 X 135 BEAMS

SCALE: ½" = 1'-0

(STIFFENER SHOWN ON W36 X 135 BEAM, W33 X 118 SIMILAR)



PIER BEARING STIFFENER DETAIL FOR W27 X 84 BEAMS

SCALE: ½" = 1'-0

McFARLAND-JOHNSON, INC.

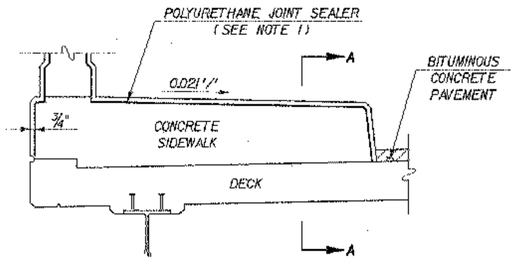
STATE OF VERMONT
AGENCY OF TRANSPORTATION

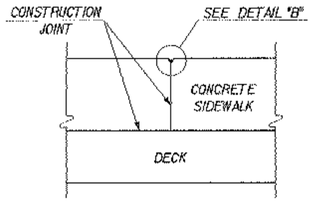
Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

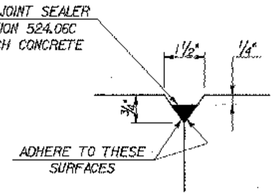
DIAPHRAGM DETAILS

Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD — Date 10/01	Bridge Design Supervisor M.ZYDEL — Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.C.C. Info. m:\549103\6cont\zj238sdt.dgn	
Bridge Sheet No.	Sheet 24 of 34





SECTION A-A



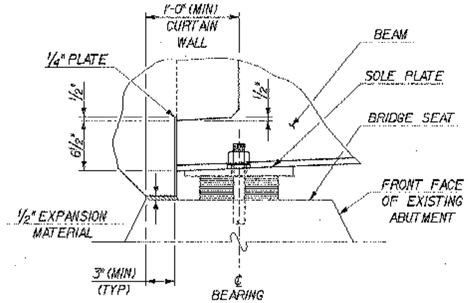
DETAIL B

SIDEWALK CONSTRUCTION JOINT NOTES

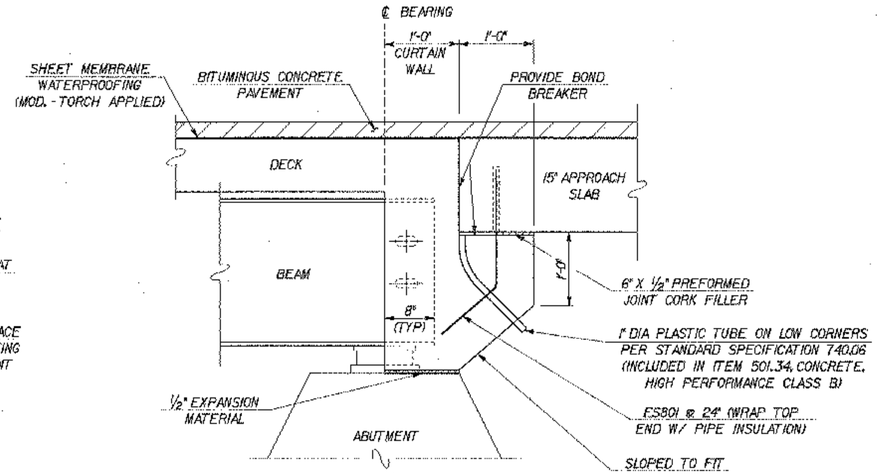
1. CONSTRUCTION JOINTS THROUGH CONCRETE SIDEWALK, CURB AND RAIL SHALL BE SPACED MAXIMUM 15'-0" CENTER TO CENTER. CONCRETE SHALL BE PLACED IN ALTERNATING SECTIONS WITH A MINIMUM OF 48 HOURS DELAY BETWEEN ADJACENT POURS.
2. LONGITUDINAL REINFORCING SHALL PASS THROUGH CONCRETE SIDEWALK CONSTRUCTION JOINTS.
3. CONSTRUCTION JOINTS IN CURB AND CAST-IN-PLACE CONCRETE BRIDGE RAILING SHALL BE MADE AS SHOWN FOR THE SIDEWALK AND PLACED AT THE SAME LOCATIONS. CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON SHOP DRAWINGS.

CONCRETE SIDEWALK CONSTRUCTION JOINT

N.T.S.

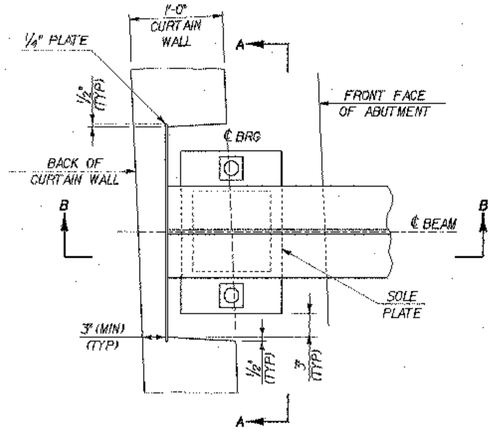


SECTION B-B

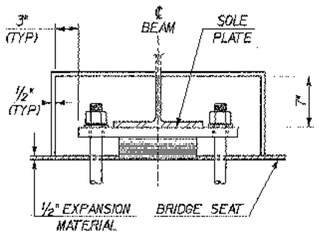


TYPICAL CURTAIN WALL SECTION

SCALE: 1" = 1'-0"
(PERPENDICULAR TO CENTERLINE BEARING)



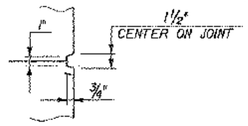
PLAN



VIEW A-A

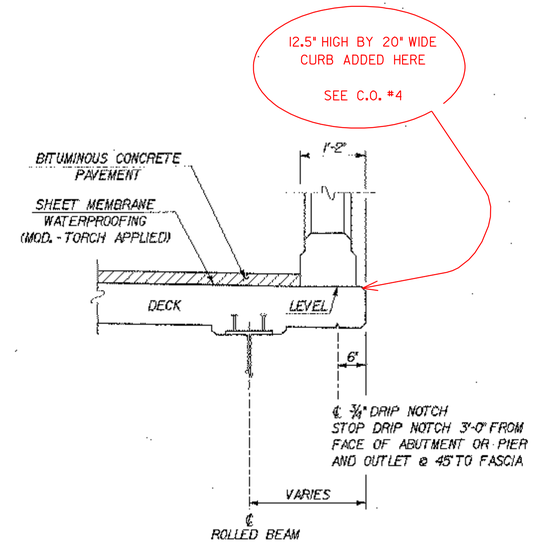
BEARING BLOCKOUT DETAIL

NOT TO SCALE



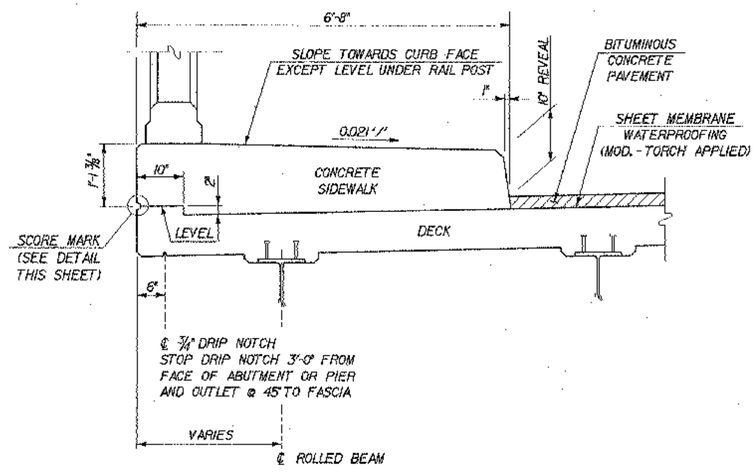
SCORE MARK DETAIL

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



TYPICAL CURB DETAIL

SCALE: 3/4" = 1'-0"



TYPICAL SIDEWALK DETAIL

SCALE: 3/4" = 1'-0"

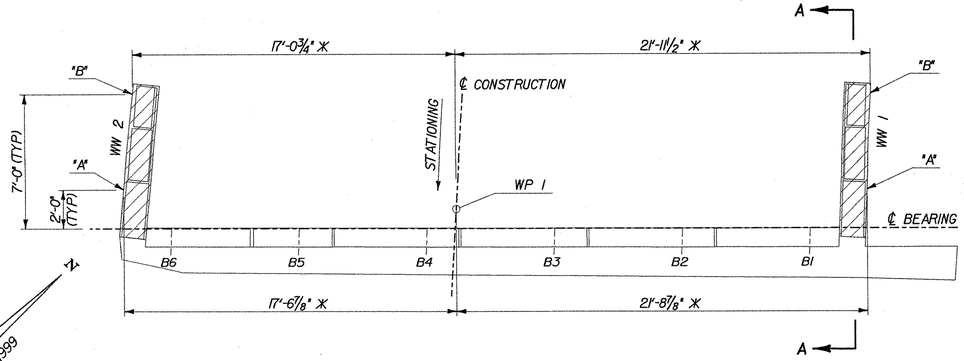
NOTES

1. THE COST OF POLYURETHANE JOINT SEALER USED ON THE BRIDGE RAIL SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 525.50. THE PAY LIMIT FOR THE RAIL JOINT SEALER IS THE BOTTOM OF THE RAILING. THE COST OF POLYURETHANE JOINT SEALER USED ON THE SIDEWALK SHALL BE INCLUDED IN ITEM 501.60. THE PAY LIMIT FOR THE SIDEWALK JOINT SEALER IS THE ENTIRE AREA ABOVE THE DECK AND BELOW THE RAILING AS IDENTIFIED IN THE TYPICAL SIDEWALK DETAIL.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

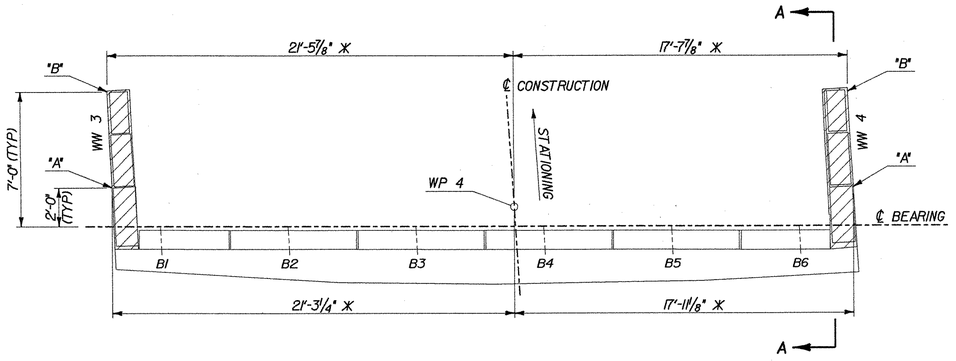
Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
MISCELLANEOUS DETAILS	
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD — Date 10/01	Bridge Design Supervisor M.ZYDEL — Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m\V549103\6oomf\z1238mdt.dgn	
Bridge Sheet No.	Sheet 25 of 34

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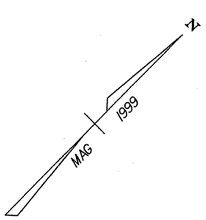
ABUTMENT NO. 1 PLAN

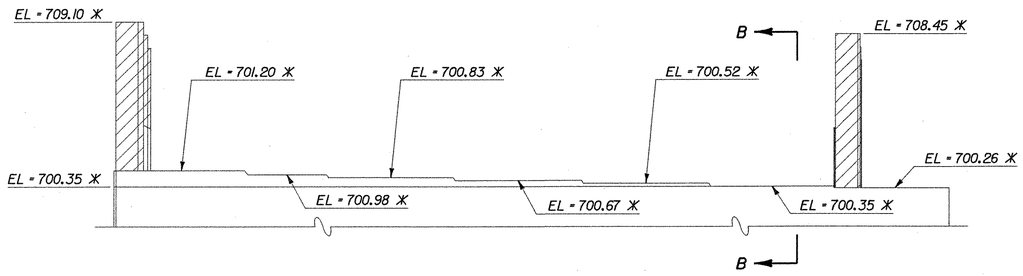
SCALE: 1/4" = 1'-0



ABUTMENT NO. 2 PLAN

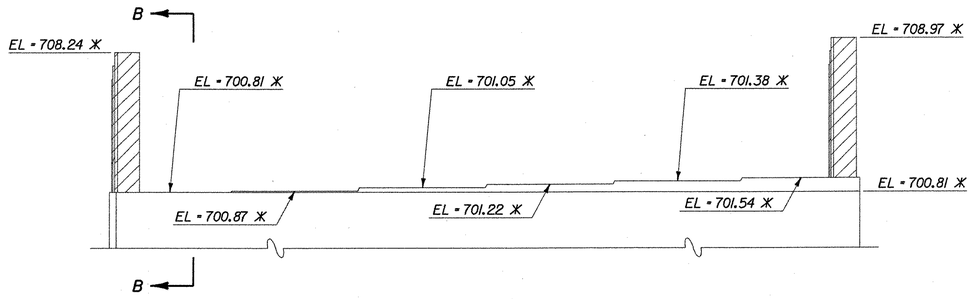
SCALE: 1/4" = 1'-0





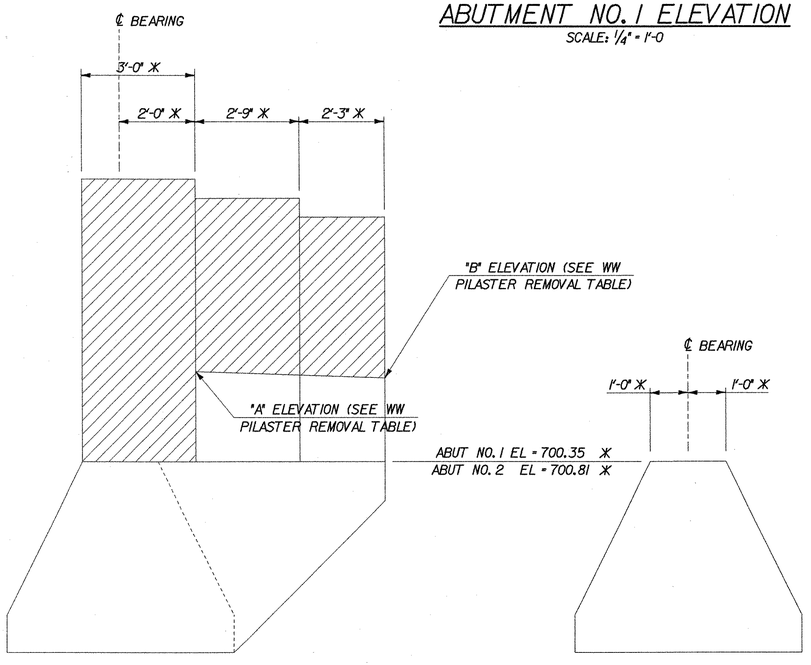
ABUTMENT NO. 1 ELEVATION

SCALE: 1/4" = 1'-0



ABUTMENT NO. 2 ELEVATION

SCALE: 1/4" = 1'-0



TYPICAL SECTION A-A

SCALE: 1/2" = 1'-0

TYPICAL SECTION B-B

SCALE: 1/2" = 1'-0

REMOVAL NOTES

1. REMOVAL OF EXISTING BRIDGE PAVEMENT SHALL BE PAID AS ITEM 529J0, REMOVAL OF BRIDGE PAVEMENT.
2. ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE, SHALL INCLUDE:
   a. REMOVAL OF EXISTING BRIDGE RAILING, CONCRETE BRUSH CURB, SIDEWALK AND CONCRETE BRIDGE DECK.
   b. REMOVAL OF ALL STEEL STRUCTURAL BEAMS, DIAPHRAGMS AND CROSS FRAMES.
   c. REMOVAL OF ALL THE BEARING DEVICES.
   d. REMOVAL OF PORTIONS OF THE EXISTING ABUTMENTS AND PIER AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER.
   e. ERECTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURES TO PREVENT DEBRIS FROM FALLING INTO THE PASSUMPSIC RIVER.
3. THE CONTRACTOR'S METHODS FOR PARTIAL REMOVAL OF THE EXISTING STRUCTURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY REMOVAL WORK.
4. LIMITS OF REMOVAL ARE APPROXIMATE. THE ENGINEER WILL ESTABLISH ACTUAL LIMITS AFTER A COOPERATIVE INSPECTION BY THE CONTRACTOR AND THE ENGINEER. EXISTING ELEVATIONS SHALL BE FIELD VERIFIED TO ENSURE THE REMOVAL LIMITS ARE ADEQUATE TO OBTAIN THE REQUIRED DIMENSIONS AND ELEVATIONS OF THE NEW CONSTRUCTION.
5. SAW CUTS SHALL BE 1" DEEP ALONG ALL EXPOSED REMOVAL LINES WHERE NEW CONCRETE IS TO BE PLACED AGAINST EXISTING CONCRETE. ALL COSTS SHALL BE INCLUDED IN ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE.
6. CARE SHALL BE TAKEN TO AVOID MECHANICAL DAMAGE TO EXISTING REINFORCING STEEL WHICH IS TO BE INCORPORATED INTO THE NEW MASONRY. EXISTING REINFORCING STEEL TO BE INCORPORATED INTO THE NEW MASONRY SHALL BE FREE OF LOOSE RUST AND LAITANCE.
7. EXISTING REINFORCING STEEL THAT WILL NOT BE INCORPORATED INTO THE NEW MASONRY SHALL BE REMOVED A MINIMUM OF 1" BEYOND THE MASONRY SURFACE. CAVITIES PRODUCED BY REMOVAL SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER WITH COSTS PAID FOR PER ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE.
8. ROUGHEN SURFACE OF EXISTING CONCRETE TO A TOTAL AMPLITUDE OF 1/4" WHERE IT IS TO BE IN CONTACT WITH NEW SEAT CONCRETE.
9. EXISTING CONCRETE SURFACES WHICH ARE TO BE IN CONTACT WITH CORK OR EXPANSION MATERIAL SHALL BE CUT OR GROUND TO HAVE A SMOOTH SURFACE.

WW PILASTER REMOVAL TABLE

WW	"A" ELEV	"B" ELEV
1	702.70	702.53
2	703.61	703.43
3	702.69	702.31
4	703.60	703.42

LEGEND

✳ = APPROXIMATE EXISTING ELEVATION OR DIMENSION

REMOVAL OF EXISTING CONCRETE

McFARLAND-JOHNSON, INC.

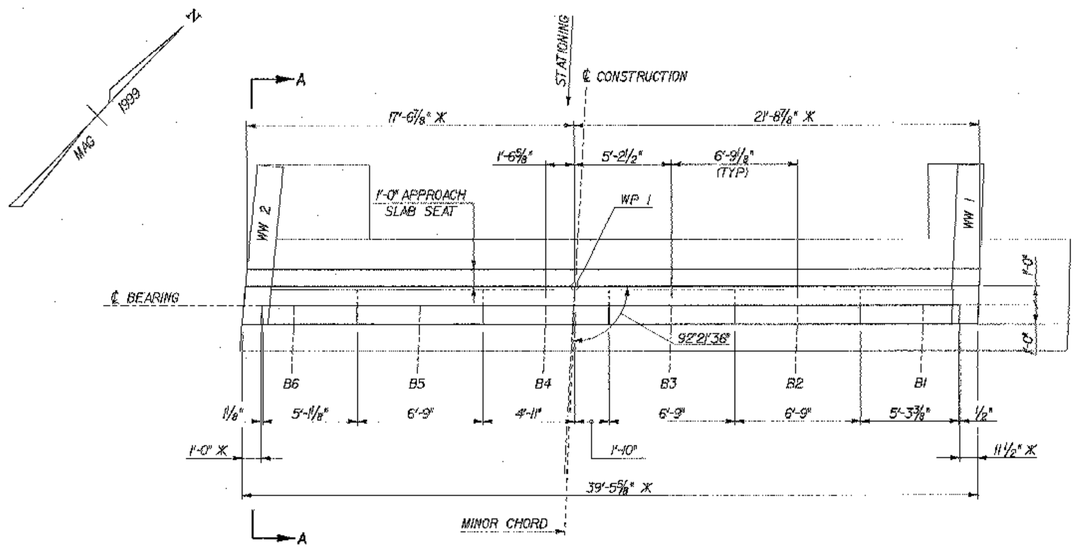
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.

CENTER STREET OVER PASSUMPSIC RIVER

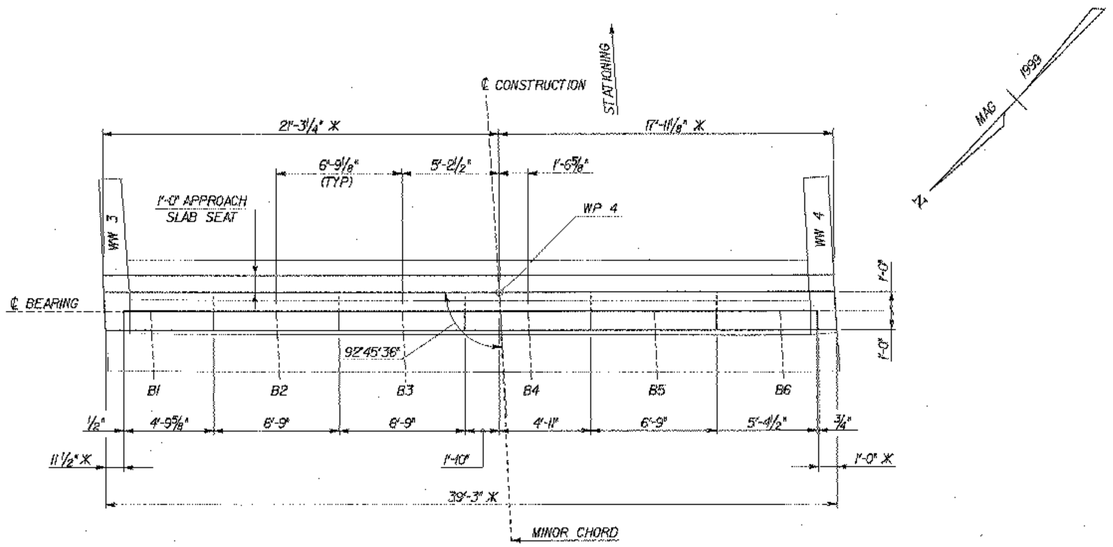
ABUTMENT REMOVAL DETAILS

Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD — Date 10/01	Bridge Design Supervisor M.ZYDEL — Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m:\V549103\6cont\zj238arr.dgn	
Bridge Sheet No.	Sheet 26 of 34



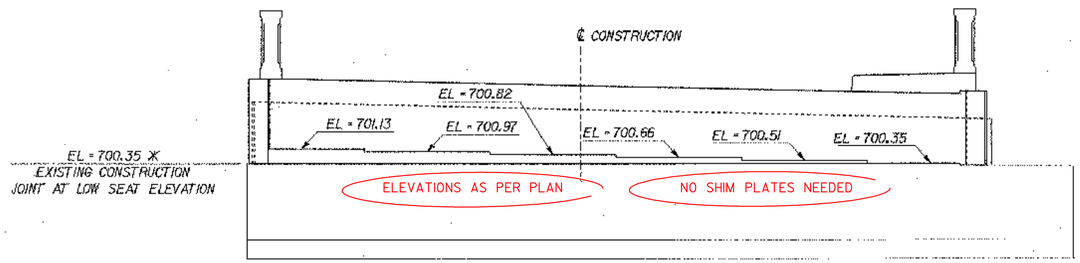
ABUTMENT NO. 1 PLAN

SCALE: 1/4" = 1'-0



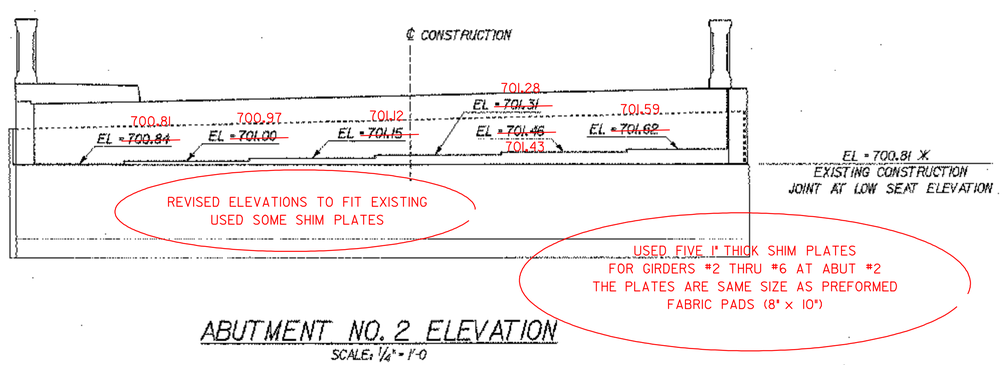
ABUTMENT NO. 2 PLAN

SCALE: 1/4" = 1'-0



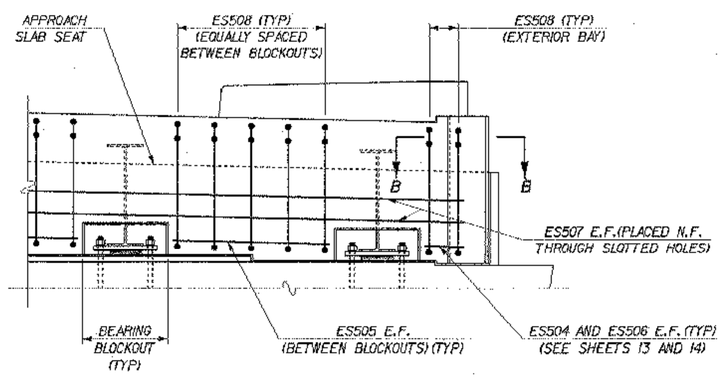
ABUTMENT NO. 1 ELEVATION

SCALE: 1/4" = 1'-0



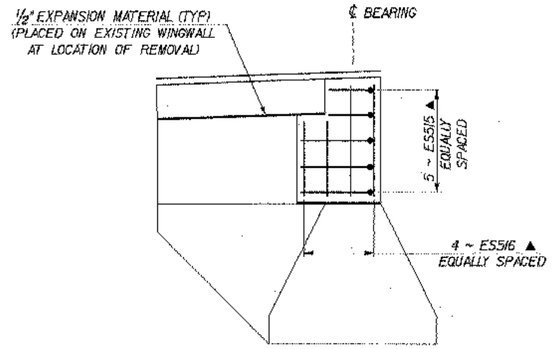
ABUTMENT NO. 2 ELEVATION

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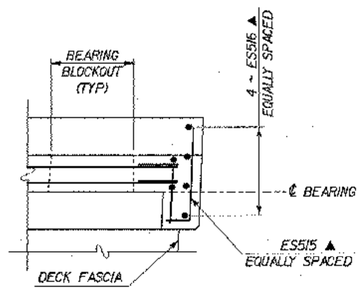
TYPICAL CURTAIN WALL ELEVATION

SCALE: 1/2" = 1'-0



TYPICAL SECTION A-A

SCALE: 3/8" = 1'-0



TYPICAL SECTION B-B

SCALE: 1/2" = 1'-0

REINFORCING NOTES

1. N.F. = NEAR FACE
   F.F. = FAR FACE
   E.F. = EACH FACE
   ▲ = CUT TO FIT IN FIELD
2. ✳ = APPROXIMATE EXISTING ELEVATION OR DIMENSION

MCFARLAND-JOHNSON, INC.

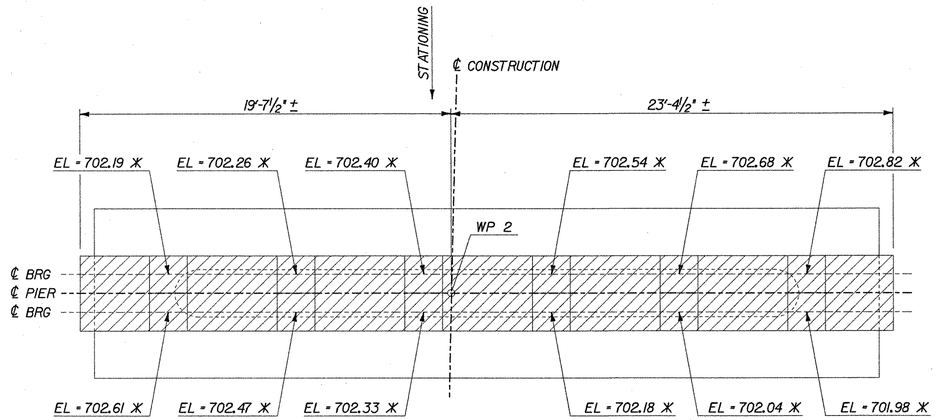
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
Highway No.	ALT VT 122	Log Sta. / Surv. Sta.	

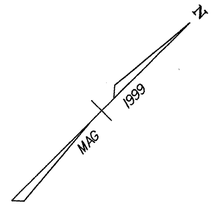
CENTER STREET OVER PASSUMPSIC RIVER

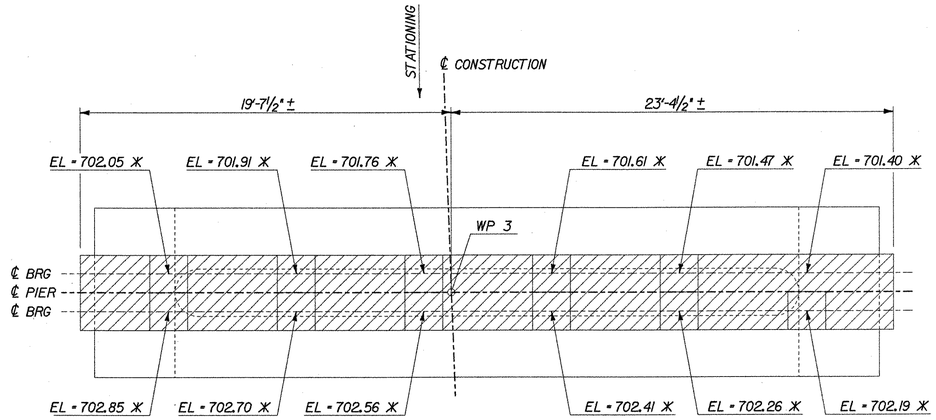
ABUTMENT DETAILS

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	T.GRANT	Date	10/01
Bridge Design Supervisor	M.ZYDEL	Date	10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	m\1549103\6cad\z1238adf.dgn		
Bridge Sheet No.		Sheet	27 of 34

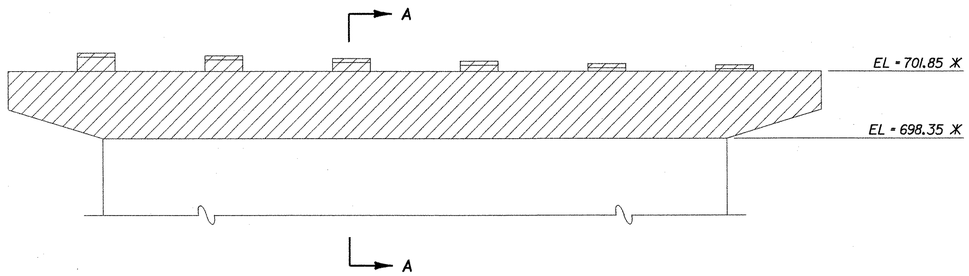


PIER NO. 1 PLAN
SCALE: 1/4" = 1'-0

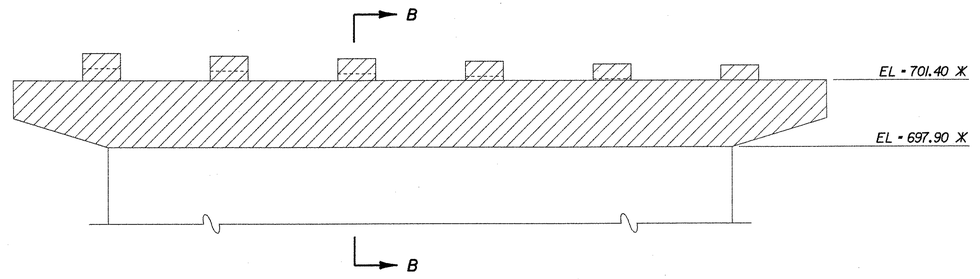




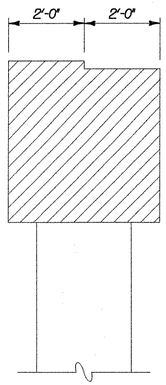
PIER NO. 2 PLAN
SCALE: 1/4" = 1'-0



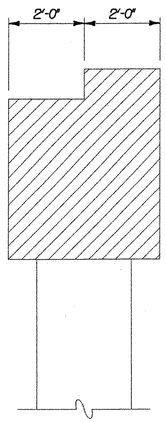
PIER NO. 1 ELEVATION
SCALE: 1/4" = 1'-0



PIER NO. 2 ELEVATION
SCALE: 1/4" = 1'-0



SECTION A-A
SCALE: 1/2" = 1'-0



SECTION B-B
SCALE: 1/2" = 1'-0

LEGEND

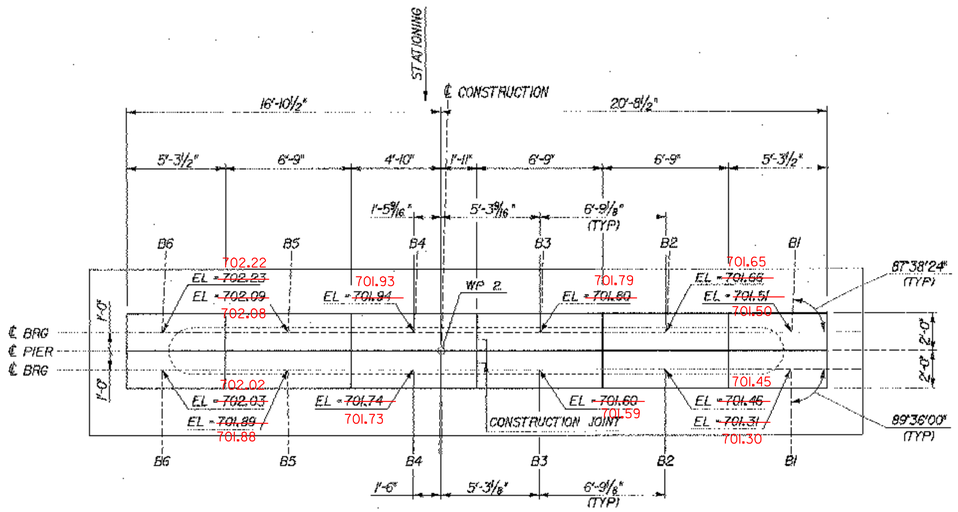
✳ = APPROXIMATE EXISTING ELEVATION OR DIMENSION

REMOVAL OF EXISTING CONCRETE

McFARLAND-JOHNSON, INC.

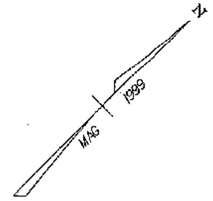
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
PIER REMOVAL DETAILS	
Designed By T.GRANT	Drawn By S.DELIA
Checked By T.GRANT Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m:\549103\6cont\zj238prr.dgn	
Bridge Sheet No.	Sheet 28 of 34

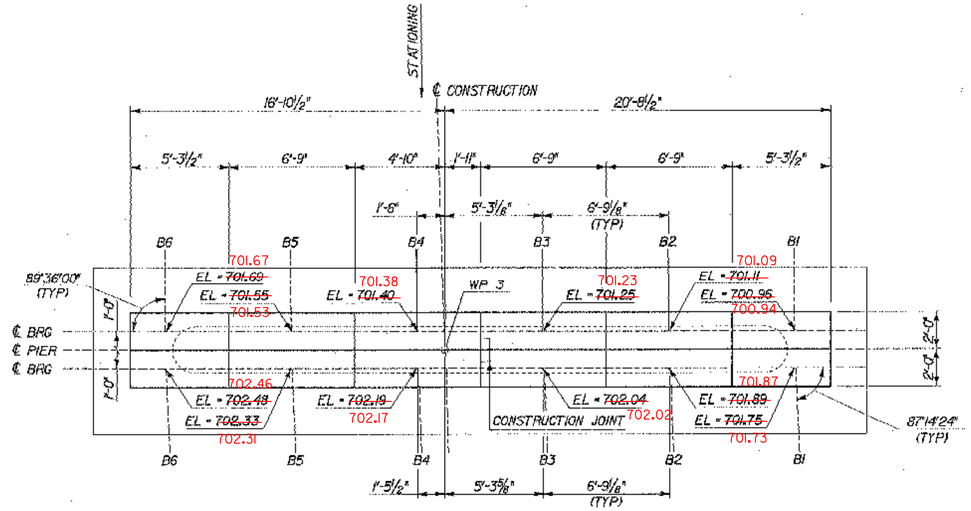


PIER NO. 1 PLAN

SCALE: ¼" = 1'-0

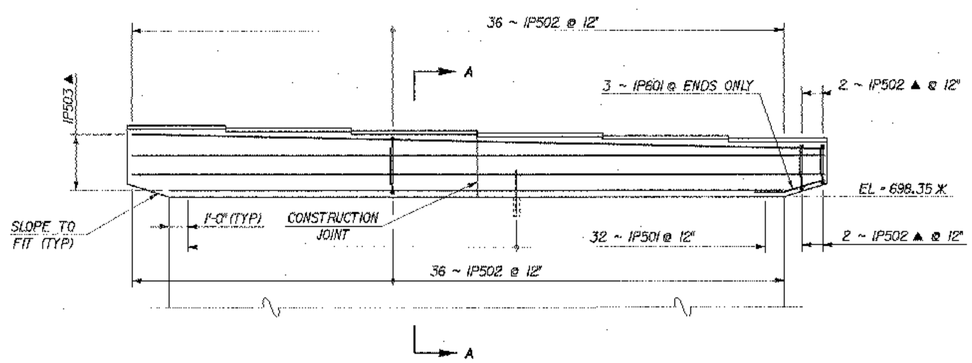


SEAT GRADES ADJUSTED IN FIELD TO FIT EXISTING ABUTMENT GRADES



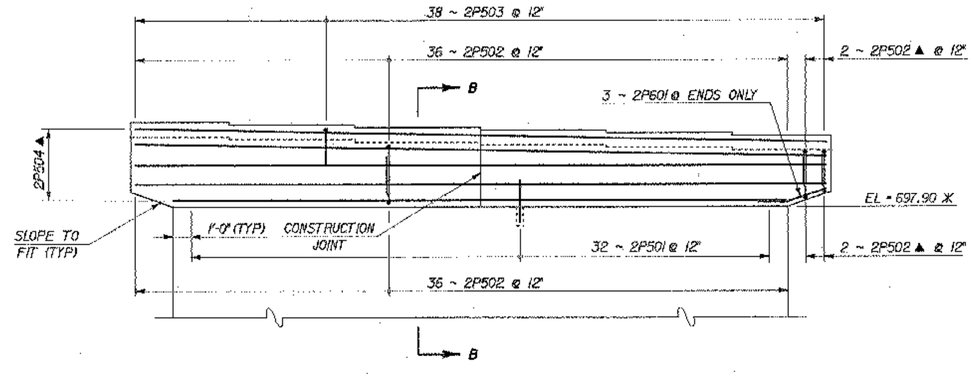
PIER NO. 2 PLAN

SCALE: ¼" = 1'-0



PIER NO. 1 ELEVATION

SCALE: ¼" = 1'-0



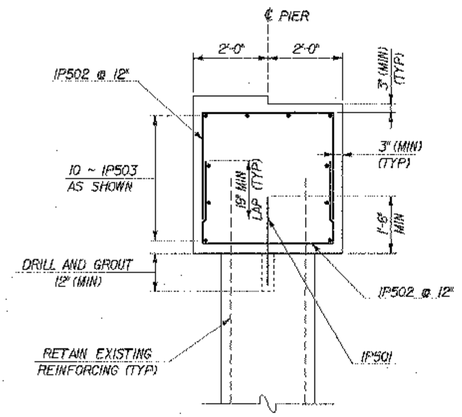
PIER NO. 2 ELEVATION

SCALE: ¼" = 1'-0

REINFORCING NOTES

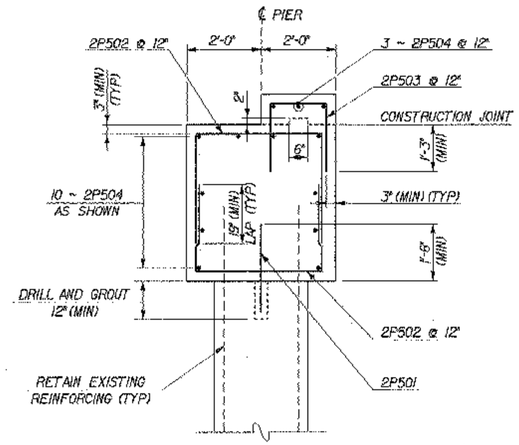
1. N.F. = NEAR FACE
   F.F. = FAR FACE
   E.F. = EACH FACE
   E.W. = EACH WAY
   ▲ = CUT TO FIT IN FIELD

2. ✕ = APPROXIMATE EXISTING ELEVATION OR DIMENSION



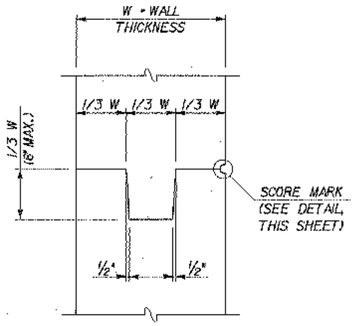
SECTION A-A

SCALE: ½" = 1'-0



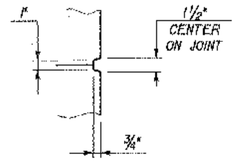
SECTION B-B

SCALE: ½" = 1'-0



TYPICAL CONCRETE CONSTRUCTION JOINT

SCALE: 1" = 1'-0"



SCORE MARK DETAIL

SCALE: 1½" = 1'-0"

McFARLAND-JOHNSON, INC.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

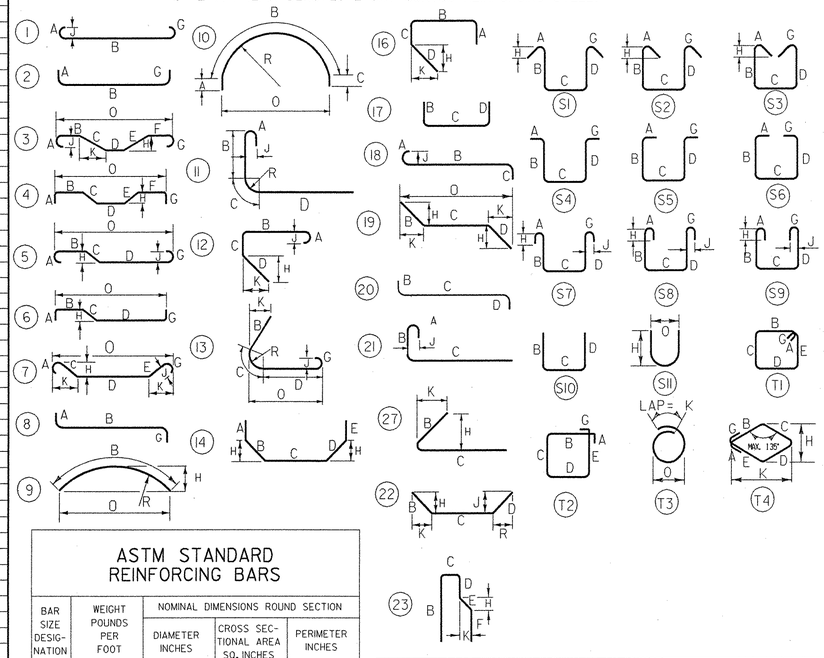
PIER DETAILS

Designed By T.GRANT/S.MERKWAN		Drawn By S.DELIA/S.MERKWAN	
Checked By T.GRANT/R.WOOD	Date 10/01	Bridge Design Supervisor M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	m\549103\cont\rj236pdt.dgn		
Bridge Sheet No.		Sheet 29 of 34	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
								DECK									
5	170	5	27-11	ES501	STR												
6 ✳	121	5	5-2	ES502	16	0-5½	1-7	0-9½	2-6				0		2-6		
7	257	5	11-7	ES503	S6	1-6	1-8⅜	6-2⅜	1-5¼			0-9					
8	16	5	2-0	ES504	STR												
9	80	5	6-3	ES505	STR												
10	16	5	1-10	ES506	STR												
11	16	5	37-10	ES507	STR												
12	29	5	8-9	ES508	S5	0-10	3-4	0-7½	3-1½			0-10					
13	8	5	38-9	ES509	STR												
14	40	5	4-8	ES510	16	0-10	1-3½	1-4	1-2½				0-9⅜		0-11		
15	255	5	29-0	ES511	STR												
16	85	5	33-3	ES512	STR												
17	29	5	7-8	ES513	S5	0-10	2-9½	0-7	2-7½			0-10					
18	40	5	4-2	ES514	16	0-10	1-3½	0-10½	1-2				0-9½		0-10¼		
19	20	5	3-0	ES515	17		0-6	2-6	0								
20	16	5	4-1	ES516	STR												
21	514	6	37-10	ES601	STR												
22 ✳	255	6	5-0	ES602	STR												
23 ✳	79	8	2-10	ES801	16												
								APPROACH SLAB									
31	42	5	29-3	EAS501	STR												
32	64	5	5-6	EAS502	STR												
33	74	9	20-8	EAS901	1	1-2	19-6					0		0-9			
34 ✳	25	9	11-0	EAS902	STR												
								PIER 1									
44	32	5	2-6	1P501	STR												
45 ▲ ✳	77	5	8-4	1P502	S10		2-5	3-6	2-5								
46 ▲	10	5	37-1	1P503	STR												
47	✳ 7	6	3-10	1P601	22		2-2	1-8					0-7⅝		2-0⅞		
								PIER 2									
58	32	5	2-6	2P501	STR												
59 ▲	76	5	8-6	2P502	S10		2-6	3-6	2-6								
60	38	5	5-0	2P503	S10		1-9	1-6	1-9								
61 ▲	13	5	37-1	2P504	STR												
62	6	6	3-11	2P601	22		2-3	1-8					0-8⅞		2-1½		

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-91). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. 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".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.

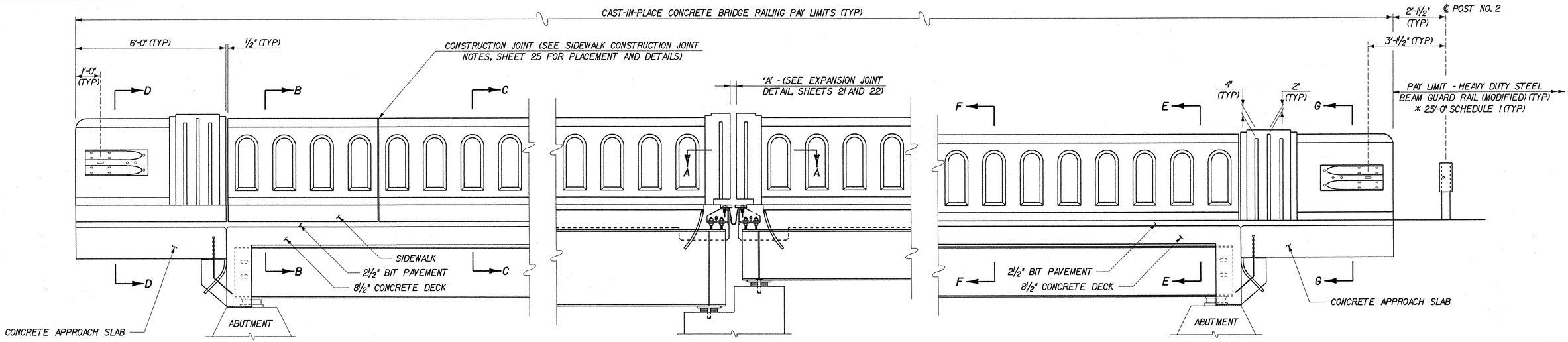


ASTM STANDARD REINFORCING BARS

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	5.32
#18	13.60	2.257	4.00	7.09

STATE OF VERMONT
AGENCY OF TRANSPORTATION

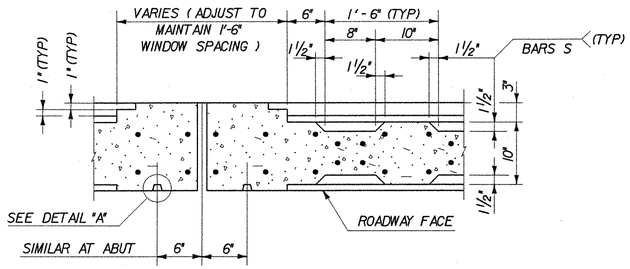
Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
REINFORCING STEEL SCHEDULE	
Designed By T.GRANT	Drawn By S.DELIA
Checked By T.GRANT Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. mN1549103\6conf\z1238rshdgn	
Bridge Sheet No.	Sheet 30 of 34



RAIL ELEVATION

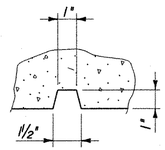
SCALE: 1/2" = 1'-0

* SEE STANDARD SB-R6-82, SCHEDULE I, FOR POST SPACING OF HEAVY DUTY STEEL BEAM GUARD RAIL (MODIFIED) ON APPROACHES



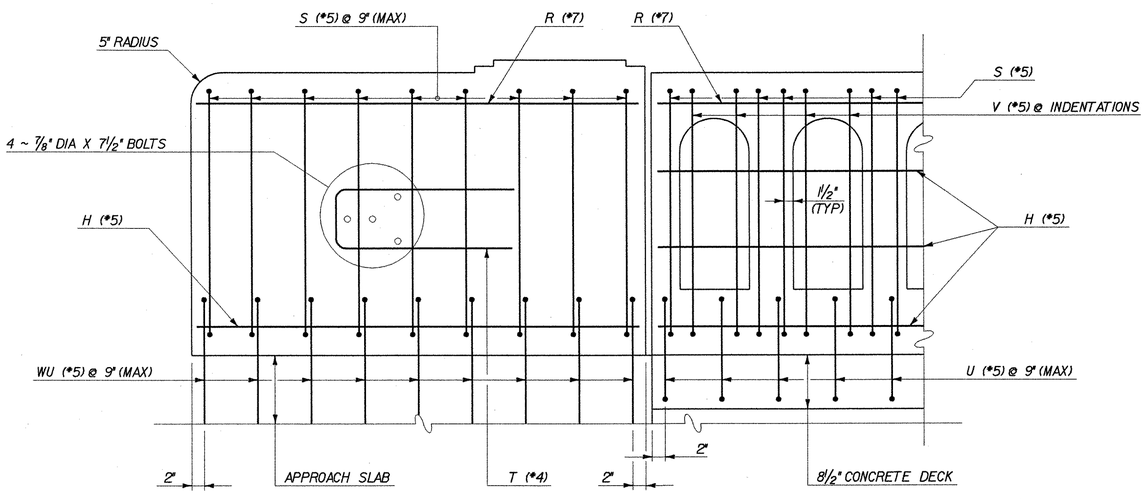
SECTION A-A

NOT TO SCALE
(H-BARS OMITTED FOR CLARITY)



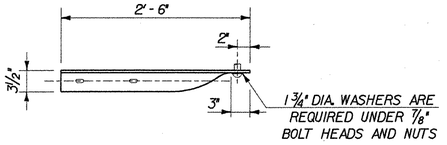
DETAIL A

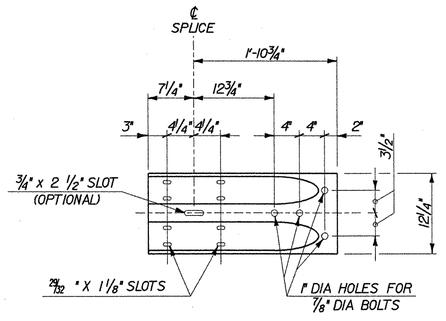
NOT TO SCALE



TYPICAL REINFORCING PLACEMENT

SCALE: 1" = 1'-0
(ON DECK SHOWN, ON SIDEWALK SIMILAR)





TERMINAL CONNECTOR

(ARTBA NO. RWE02b)
SCALE: 1" = 1'-0

TERMINAL CONNECTOR SHALL RECEIVE THE SAME PROTECTIVE COATING AS THE ATTACHED HEAVY DUTY STEEL BEAM GUARD RAIL

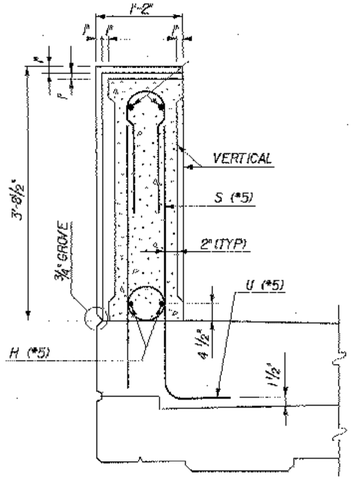
RAIL NOTES

1. ALL PARTS OF THE RAILING INCLUDING REINFORCING, TERMINAL CONNECTOR, BOLTS, NUTS AND WASHERS ARE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF ITEM 525.50, "CAST-IN-PLACE CONCRETE BRIDGE RAILING".
2. ALL CONCRETE FOR RAILING WALL SHALL BE CONCRETE, HPC CLASS A.
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. SHOP DRAWINGS SHALL BE SUBMITTED FOR THIS RAILING.
5. SEE PLAN AND ELEVATION, SHEET 11 OF 34 FOR PAY LIMIT DIMENSIONS.
6. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
7. HOLES AND RECESSES MUST BE FORMED OR CORED. PERCUSSION DRILLING IS NOT PERMITTED.
8. 1 3/4" DIAMETER WASHERS ARE REQUIRED UNDER 7/8" DIAMETER BOLT HEADS AND NUTS.

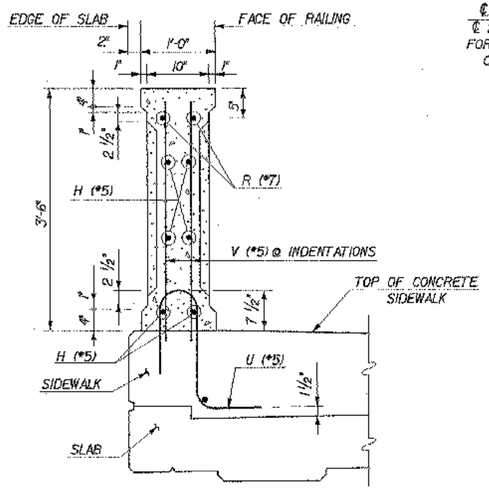
MCFARLAND-JOHNSON, INC.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of LYNDON	Bridge No. 2
Highway No. ALT VT 122	Log Sta. / Surv. Sta.
CENTER STREET OVER PASSUMPSIC RIVER	
CIP CONCRETE BRIDGE RAILING DETAILS - 1	
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R. WOOD — Date 10/01	Bridge Design Supervisor M.ZYDEL — Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
I.G.C. Info. m\V549103\6conn\zj238tx1.dgn	
Bridge Sheet No.	Sheet 31 of 34

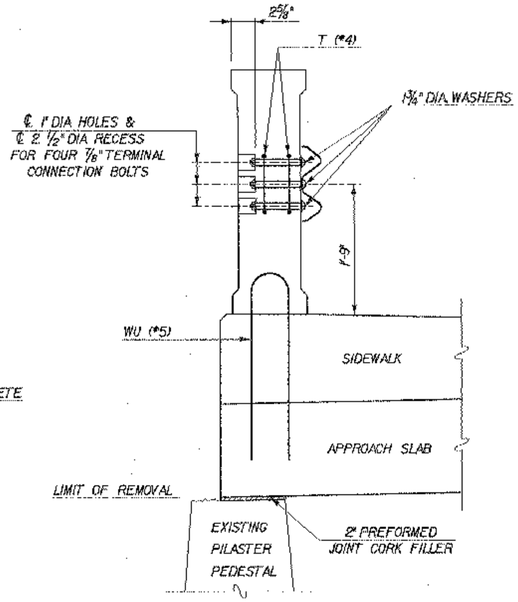


SECTION B-B
NOT TO SCALE
(SHOWING PILASTER AND BEYOND)

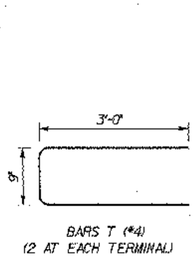


SECTION C-C
NOT TO SCALE

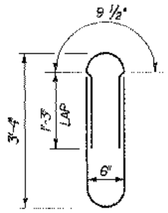
NOTE! ADDED 12.5 INCH HIGH BY
20 INCH WIDE CURB BETWEEN RAILING
AND DECK / APPROACH SLAB ON RIGHT SIDE



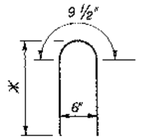
SECTION D-D
NOT TO SCALE
(SHOWING HDSBGR CONNECTION,
SOME REINFORCING OMITTED FOR CLARITY)
(SEE SECTION B-B FOR OMITTED REINFORCING)



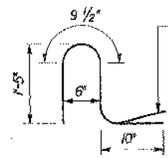
BARS T (*4)
(2 AT EACH TERMINAL)



BARS S (*5)



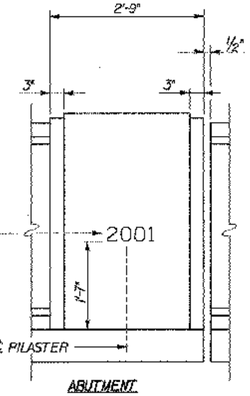
BARS WU (*5)



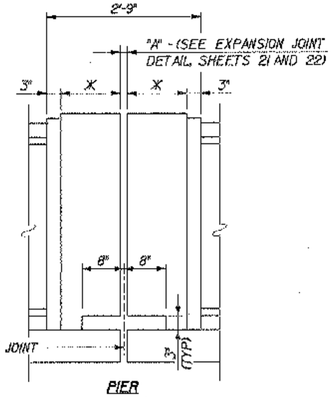
BARS U (*5)

REINFORCING BAR DETAILS
NOT TO SCALE
(℄ 1'-10" ON DECK, 2'-7" ON SIDEWALK)

CONSTRUCTION YEAR
3" HIGH "PLANT IN BOLD"
TYPEFACE W/ ¼" RECESS.
PLACED AT ONE ABUTMENT ONLY.

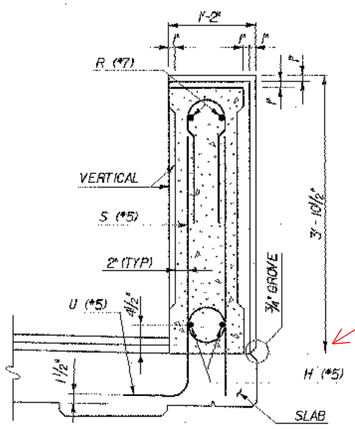


ABUTMENT



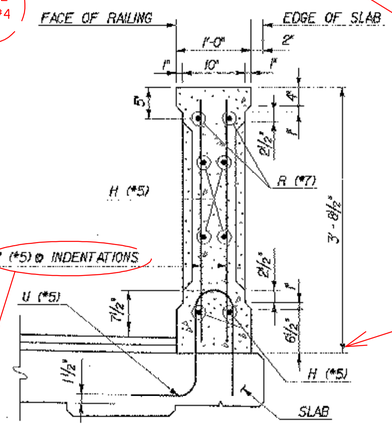
PIER

EXTERIOR PILASTER ELEVATIONS
SCALE: ¾" = 1'-0"
(X DIMENSIONS SHALL BE THE SAME ON EACH SIDE OF JOINT)



SECTION E-E
NOT TO SCALE
(SHOWING PILASTER)

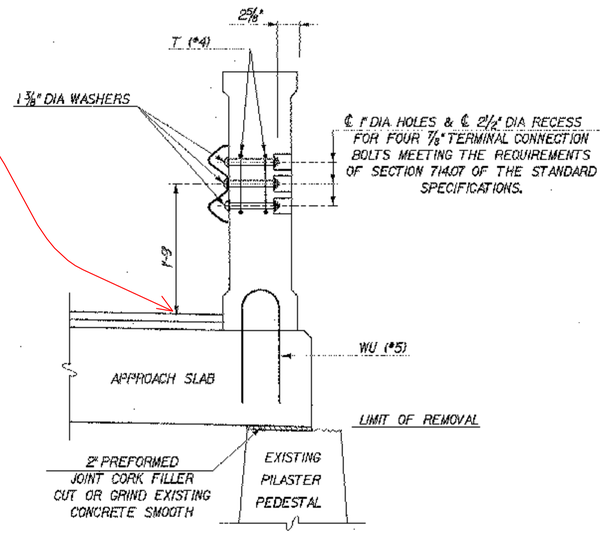
SEE
C.O. #4



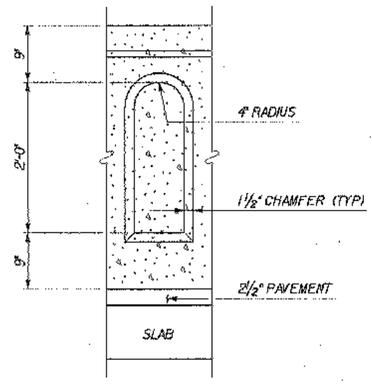
ELIMINATED
V #5 BARS AS
PER W. TRIPP

SECTION F-F
NOT TO SCALE

NOT ENOUGH RAIL THICKNESS
TO GET THESE BARS IN



SECTION G-G
NOT TO SCALE
(SHOWING HDSBGR CONNECTION,
SOME REINFORCING OMITTED FOR CLARITY)
(SEE SECTION E-E FOR OMITTED REINFORCING)



ARCHITECTURAL INDENTATION
SCALE: 1" = 1'-0"

McFARLAND-JOHNSON, INC.

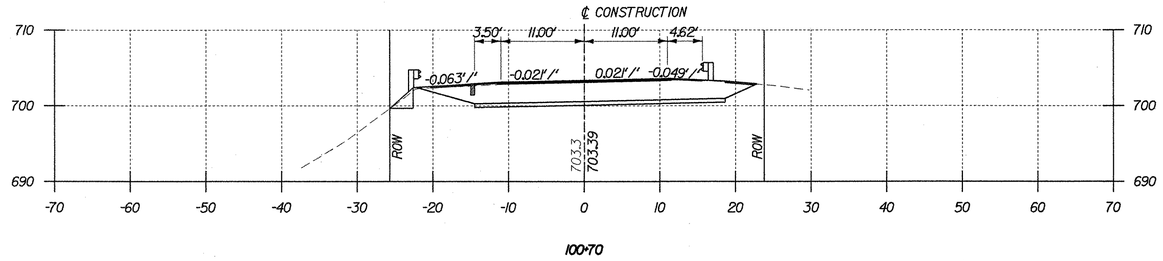
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

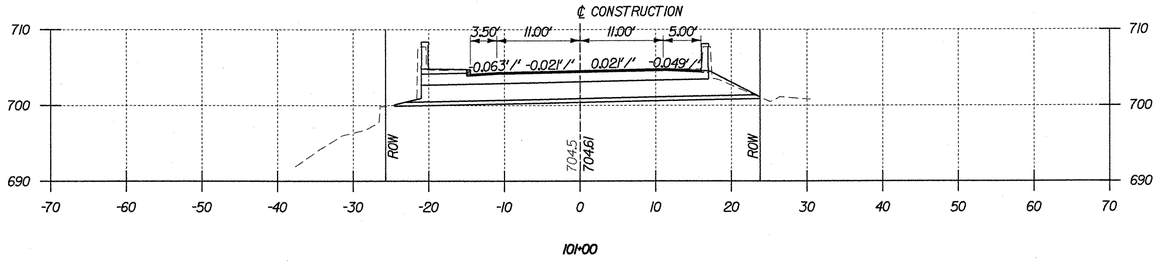
CENTER STREET OVER PASSUMPSIC RIVER

CIP CONCRETE BRIDGE RAILING DETAILS - 2

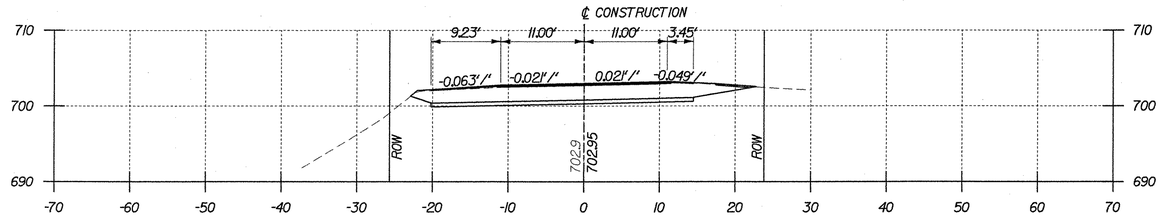
Designed By T.GRANT/S. MERKWAN	Drawn By S.DELIA/S. MERKWAN
Checked By T.GRANT/R.WOOD Date 10/01	Bridge Design Supervisor M.ZYDEL Date 10/01
PROJECT LYNDON	PROJECT NO. BHO 1447(26)
L.G.C. Info.	m\549103\6conf\z12381x2.dgn
Bridge Sheet No.	Sheet 32 of 34



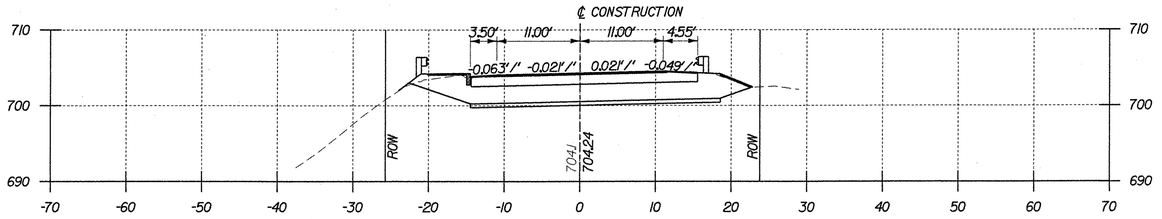
100+70



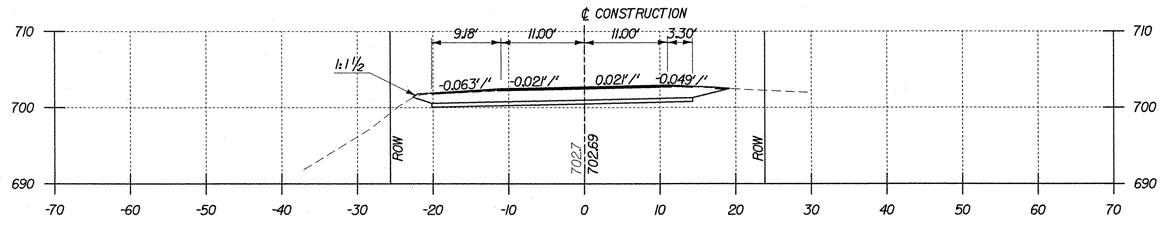
101+00



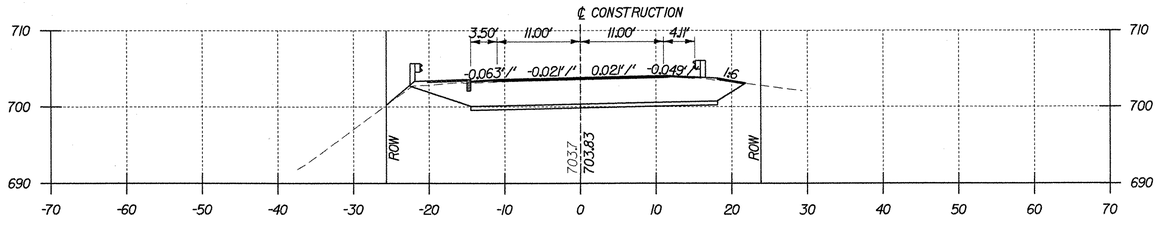
100+60



100+90



100+54
BEGIN PROJECT



100+80

STATE OF VERMONT
AGENCY OF TRANSPORTATION

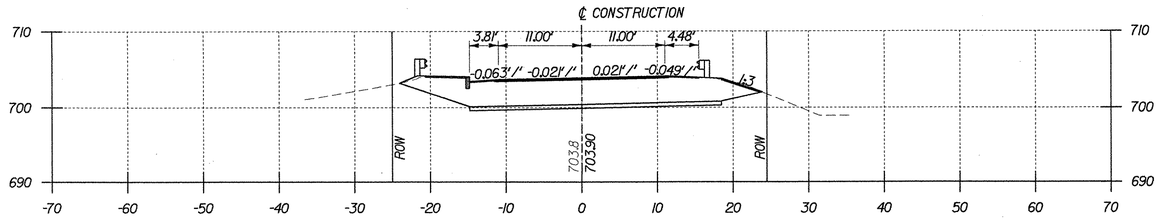
Town Of	LYNDON	Bridge No.	2
Highway No.	ALT VT 122	Log Sta. / Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

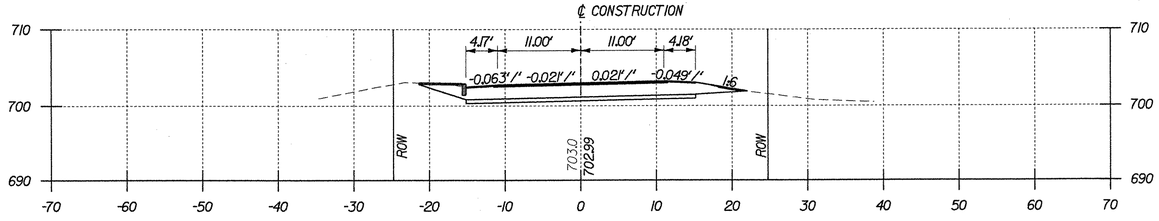
ROADWAY SECTIONS - 1

Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	m:\549103\6cont\zj238sec.dgn		
Bridge Sheet No.		Sheet 33 of 34	

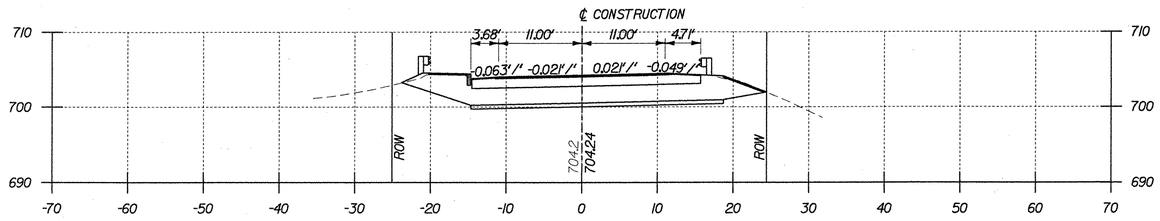
McFARLAND-JOHNSON, INC.



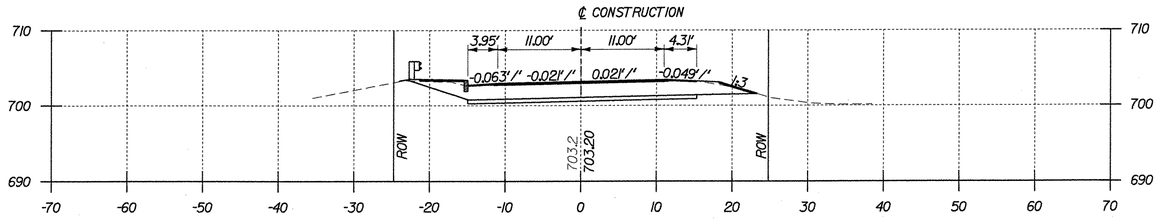
103+00



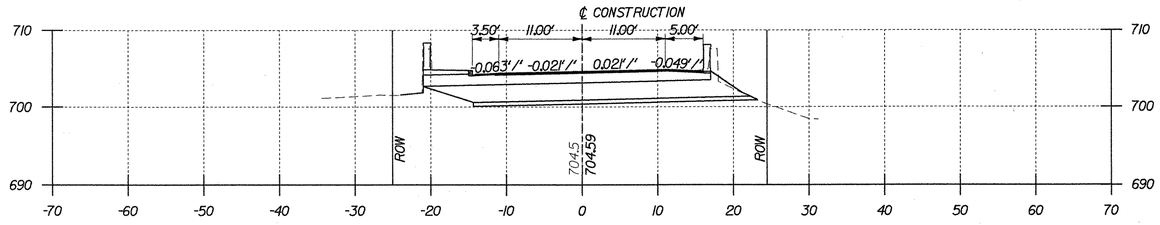
103+26
END PROJECT



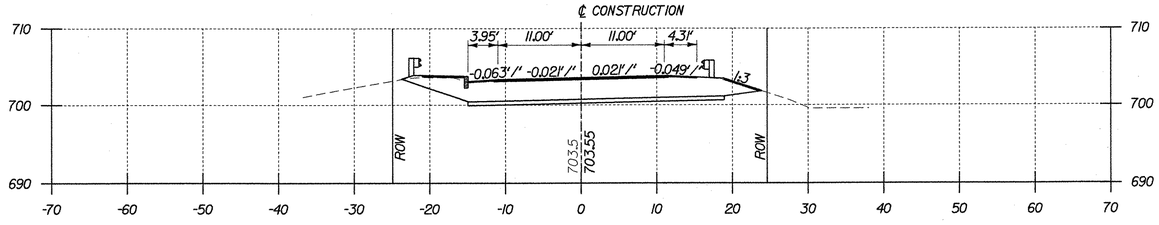
102+90



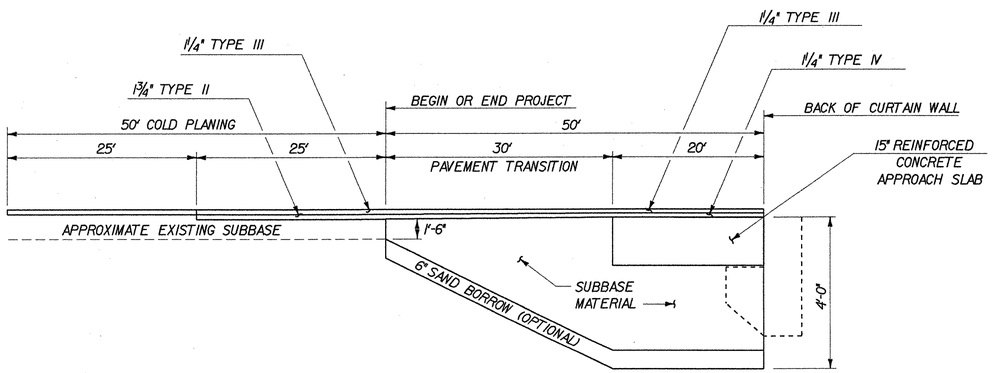
103+20



102+80



103+10



TRANSITION AT PROJECT LIMITS AND SUBBASE DETAIL AT ABUTMENTS

N.T.S.

GENERAL NOTE

1. THE CONTRACTOR SHALL ENSURE FREE DRAINAGE OF THE ROADWAY SUBGRADE BEHIND THE ABUTMENTS TO THE SATISFACTION OF THE RESIDENT ENGINEER. THE RESIDENT ENGINEER WILL EXAMINE THE EXCAVATION TO DETERMINE IF THE EXISTING MATERIALS ALLOW ADEQUATE DRAINAGE OR IF A TRENCH FROM THE ABUTMENT TO A SIDESLOPE IS REQUIRED.

McFARLAND-JOHNSON, INC.

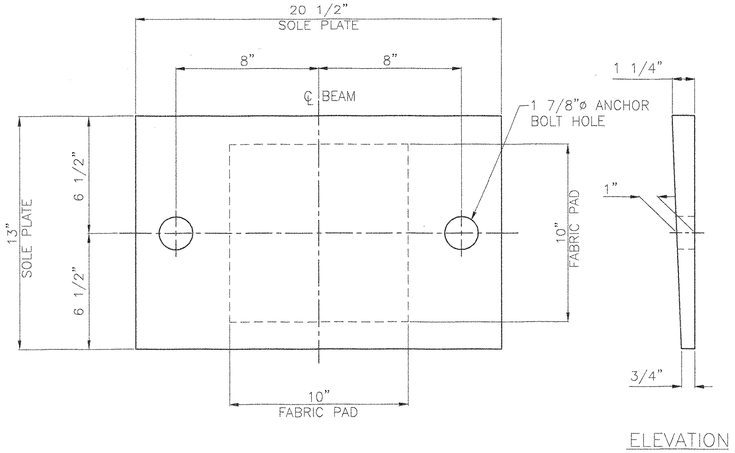
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	LYNDON	Bridge No.	2
		Log Sta.	
Highway No.	ALT VT 122	Surv. Sta.	

CENTER STREET OVER PASSUMPSIC RIVER

ROADWAY SECTIONS - 2

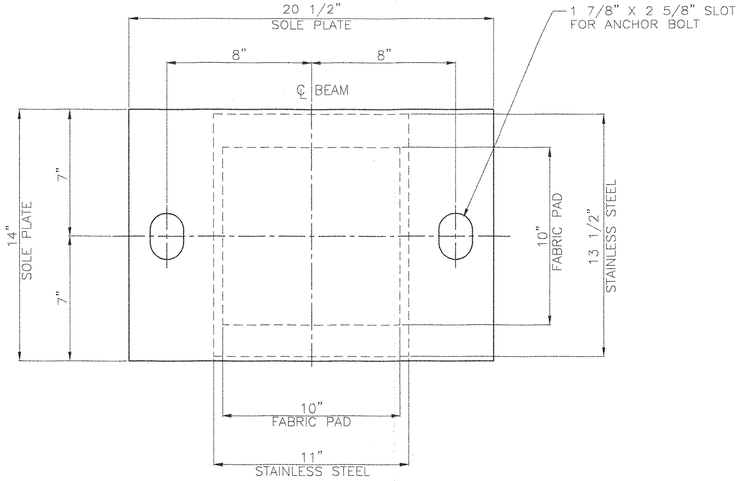
Designed By	T.GRANT	Drawn By	S.DELIA
Checked By	Date	Bridge Design Supervisor	
T.GRANT	10/01	M.ZYDEL	Date 10/01
PROJECT	LYNDON	PROJECT NO.	BHO 1447(26)
I.G.C. Info.	m:\V549103\6cont\zj238sec.dgn		
Bridge Sheet No.		Sheet 34 of 34	



PLAN

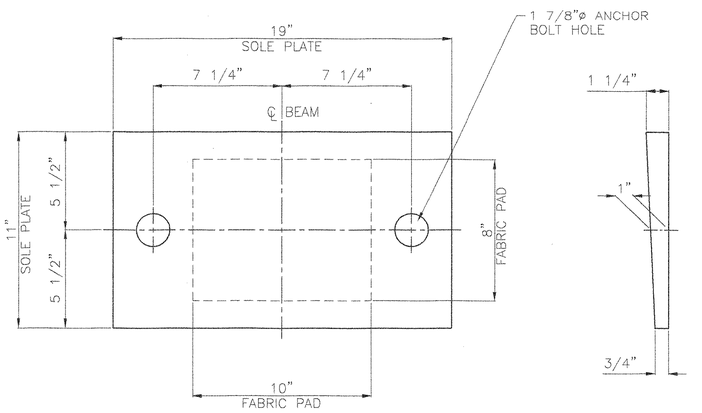
ELEVATION

FIXED PREFORMED FABRIC PAD BEARINGS
LOCATION: ABUTMENT 1
QUANTITY: 6



PLAN

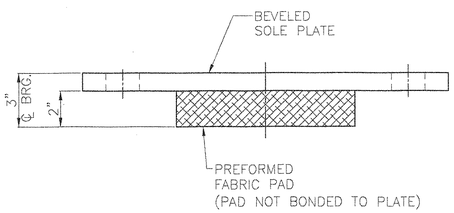
EXPANSION PREFORMED FABRIC PAD BEARING
LOCATION: PIER 1
QUANTITY: 6



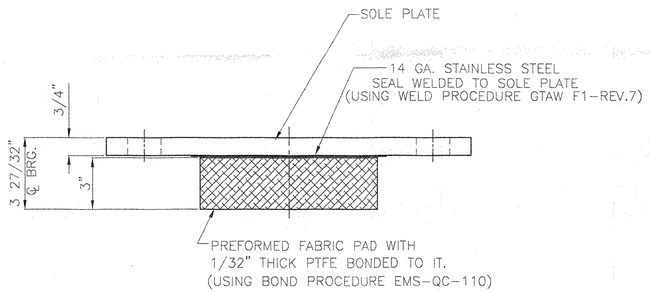
PLAN

ELEVATION

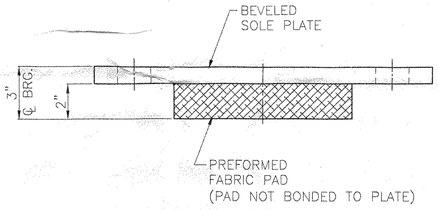
FIXED PREFORMED FABRIC PAD BEARING
LOCATION: ABUTMENT 2
QUANTITY: 6



FRONT ELEVATION



FRONT ELEVATION



FRONT ELEVATION

BEARING NOTES

1. ALL MATERIALS USED IN THE FABRICATION OF THESE BEARINGS SHALL BE MADE IN THE U.S.A.
2. BEARINGS ARE TO BE SHIPPED AS COMPLETE UNITS, STEEL BANDED, AND SHALL BE WRAPPED TO PROTECT FROM MOISTURE AND DIRT DURING TRANSIT AND STORAGE.
3. LOCATION OF FABRICATION PLANT – 70 SOUTH STREET WALPOLE, MA. 02081
4. COSMEC, INC. REPRESENTATIVE – MR. MATT McANDREWS (508) 668-6600
5. BEARINGS SHALL BE STORED IN A CLEAN, DRY, LEVEL UPRIGHT POSITION.
6. Ⓧ MARKS THE THICK END OF SOLE PLATE
7. ALL EDGES OF STEEL PLATES SHALL HAVE 1/16" MINIMUM RADIUS

MATERIALS

STEEL – ASTM A709 GR. 36 (AASHTO M270) ZINC METALIZED AND SEALED WITH AN APPROVED SEALANT.

STAINLESS STEEL – ASTM A.240 TYPE 304, WITH MIRROR FINISH

PREFORMED FABRIC PAD – AASHTO DIV. II SPEC. 18.4.10.1

PTFE – ASTM D1457 (UNFILLED)

ANCHOR BOLTS, NUTS & WASHERS – SEE DETAIL

ALL BEARINGS DEVICES SHALL BE METALIZED AS PER SUBSECTIONS 531.04(b) AND 506.15(C) & (b). BEARINGS SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN STANDARD SPEC. SUBSECTION 506.15(b). AREAS OF METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE PAINTED WITH AN APPROVED SEALANT IN ACCORDANCE WITH STANDARD SPEC. SUBSECTION 708.02(d).

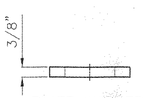
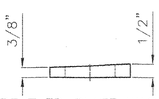
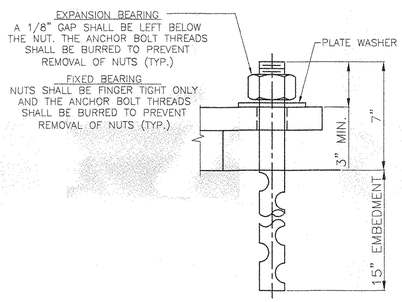


PLATE WASHER
3" X 3" WITH A
1 7/8"ø HOLE ASTM A36 (GALV.)
@ PIER 1 ONLY



BEVELED PLATE WASHER
3" X 3" WITH A
1 7/8"ø HOLE ASTM A36 (GALV.)
@ ABUTMENT 1 & 2



ANCHOR BOLT DETAIL
1 1/2"ø X 22" ASTM F1554 GRADE 55
SWEDGED ANCHOR BOLT WITH 4" OF THREADS
ON ONE END. W/ ONE HEAVY HEX NUT
(ALL GALV.)

☒ Reviewed
☐ Rejected
☐ Furnish as Corrected
☐ Revise and Resubmit
☐ Submit Specified Item

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for dimensions to be confirmed and correlated at the jobsite, information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction, coordination of the Work with that of all other trades and performing all work in a safe and satisfactory manner.

McFarland-Johnson, Inc.

Date 5-11-04

By Steven F. Delia

REV.		BY:	DATE	CK'D BY:	DATE

STATE OF VERMONT
AGENCY OF TRANSPORTATION
HIGHWAY NUMBER ALT VT 122
TOWN OF LYNDON

CENTER STREET OVER PASSUMPSIC RIVER
PROJECT NUMBER BHO1447 (26)
BRIDGE NUMBER 2

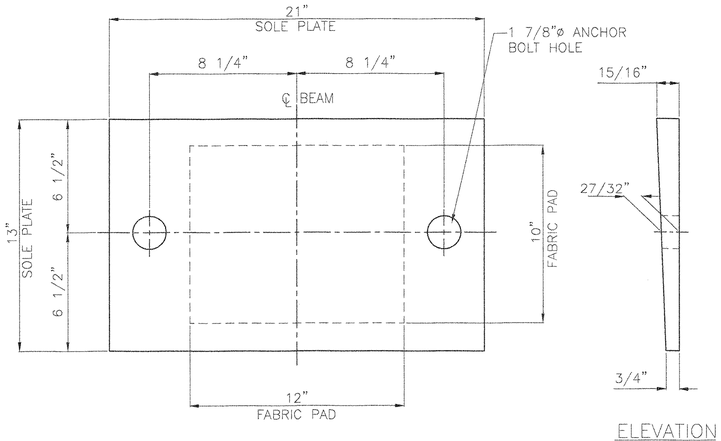
COSMEC, INC. — 70 SOUTH STREET WALPOLE, MA. 02081

SCALE:	DRAWN BY:	CHECKED BY:
1/4"=1"	RFC	MCM
	DATE: 4-21-04	DATE 4-26-04

COSMEC PREFORMED FABRIC PAD BEARINGS

CUSTOMER	S.O. NUMBER	DRAWING NUMBER	REV.
AUSTIN CONSTRUCTION	60024	4155	

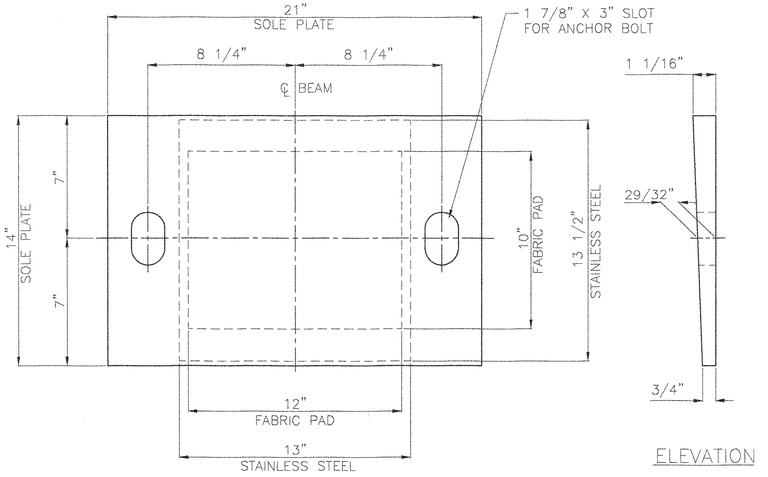
050 BB



PLAN

FIXED PREFORMED FABRIC PAD BEARINGS
LOCATION: PIER 1
QUANTITY: 6

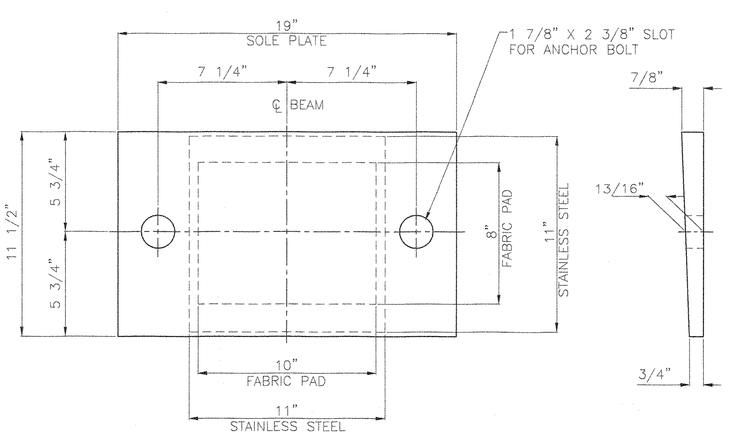
ELEVATION



PLAN

EXPANSION PREFORMED FABRIC PAD BEARINGS
LOCATION: BEARING # 1 PIER 2
QUANTITY: 6

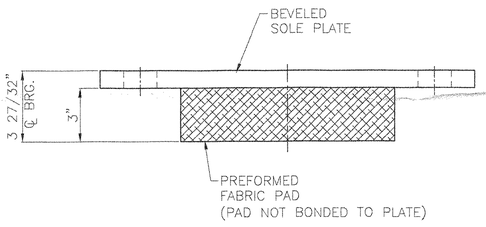
ELEVATION



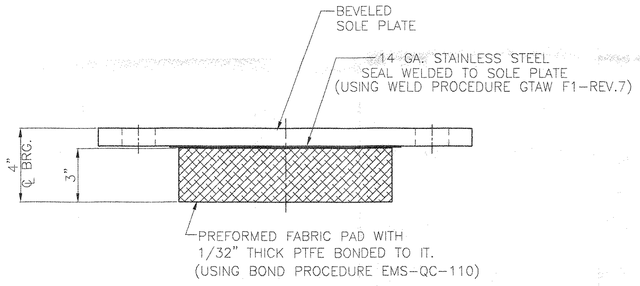
PLAN

EXPANSION PREFORMED FABRIC PAD BEARINGS
LOCATION: BEARING # 2 PIER 2
QUANTITY: 6

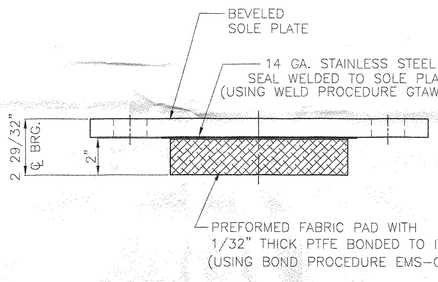
ELEVATION



FRONT ELEVATION



FRONT ELEVATION



FRONT ELEVATION

BEARING NOTES

1. ALL MATERIALS USED IN THE FABRICATION OF THESE BEARINGS SHALL BE MADE IN THE U.S.A.
2. BEARINGS ARE TO BE SHIPPED AS COMPLETE UNITS, STEEL BANDED, AND SHALL BE WRAPPED TO PROTECT FROM MOISTURE AND DIRT DURING TRANSIT AND STORAGE.
3. LOCATION OF FABRICATION PLANT – 70 SOUTH STREET WALPOLE, MA. 02081
4. COSMEC, INC. REPRESENTATIVE – MR. MATT McANDREWS (508) 668-6600
5. BEARINGS SHALL BE STORED IN A CLEAN, DRY, LEVEL UPRIGHT POSITION.
6. ⊗ MARKS THE THICK END OF SOLE PLATE
7. ALL EDGES OF STEEL PLATES SHALL HAVE 1/16" MINIMUM RADIUS

MATERIALS

STEEL – ASTM A709 GR. 36 (AASHTO M270) ZINC METALIZED AND SEALED WITH AN APPROVED SEALANT.

STAINLESS STEEL – ASTM A.240 TYPE 304, WITH A MIRROR FINISH

PREFORMED FABRIC PAD – AASHTO DIV. II SPEC. 18.4.10.1

PTFE – ASTM D1457 (UNFILLED)

ANCHOR BOLTS, NUTS & WASHERS – SEE DETAIL

ALL BEARINGS DEVICES SHALL BE METALIZED AS PER SUBSECTIONS 531.04(b) AND 506.15(C) & (b). BEARINGS SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN STANDARD SPEC. SUBSECTION 506.15(b). AREAS OF METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE PAINTED WITH AN APPROVED SEALANT IN ACCORDANCE WITH STANDARD SPEC. SUBSECTION 708.02(d).

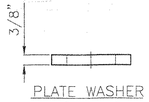
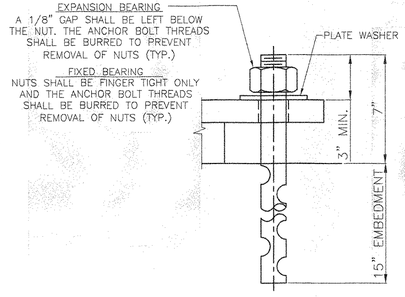


PLATE WASHER
3" X 3" WITH A
1 7/8"ø HOLE ASTM A36 (GALV.)



ANCHOR BOLT DETAIL
1 1/2"ø X 22" ASTM F1554 GRADE 55
SWEDGED ANCHOR BOLT WITH 4" OF THREADS
ON ONE END. W/ ONE HEAVY HEX NUT
(ALL GALV.)

Reviewed
Rejected
Furnish as Corrected
Revise and Resubmit
Submit Specified Item

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all work in a safe and satisfactory manner.

McFarland-Johnson, Inc.
Date 5-11-04
By Steven F. Delia

REV.		BY:	DATE	CK'D BY:	DATE

STATE OF VERMONT
AGENCY OF TRANSPORTATION

HIGHWAY NUMBER ALT VT 122
TOWN OF LYNDON

CENTER STREET OVER PASSUMPSIC RIVER
PROJECT NUMBER BHO1447 (26)
BRIDGE NUMBER 2

COSMEC, INC. 70 SOUTH STREET WALPOLE, MA. 02081

SCALE: 1/4"=1"	DRAWN BY: RFC	CHECKED BY: MCM
	DATE: 4-21-04	DATE 4/26/04

COSMEC PREFORMED FABRIC PAD BEARINGS

CUSTOMER	S.O. NUMBER	DRAWING NUMBER	REV.
AUSTIN CONSTRUCTION	60024	4156	

057 BB

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

1). ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001 WITH LATEST REVISIONS AND THE SPECIAL PROVISIONS.

2). AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (A.A.S.H.T.O) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17th EDITION DATED 2002, WITH LATEST REVISIONS.

MATERIAL SPECIFICATIONS

1). UNLESS NOTED, ALL STEEL TO BE AASHTO M270 GRADE 50W (ASTM A709-50W).

2). MATERIAL NOTED "CVN" OR "H2-3" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS.

3). HIGH STRENGTH BOLTS: AASHTO M164 (ASTM A325).
TYPE 3 BOLTS SHALL BE USED FOR UNPAINTED CONNECTIONS.
TYPE 1 (GALV.) BOLTS SHALL BE USED FOR PAINTED CONNECTIONS.

FABRICATION

1). ALL HOLES SHALL BE PUNCHED OR DRILLED FULL SIZE (UN).
2). STUDS ARE FURNISHED AND FIELD APPLIED BY OTHERS.

WELDING

1). THE CONFIGURATION OF THE WELD JOINTS AND ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5-02 BRIDGE WELDING CODE AND IN ADDITION TO SPECIFICATIONS SHOWN ABOVE. ALL WELDING WILL BE DETAILED TO PRE-QUALIFIED JOINTS, UNLESS PROHIBITED BY THE DESIGNER.

2). WELDING OF MAIN LOAD CARRYING MEMBERS AND ATTACHMENTS SHALL BE PERFORMED USING THE AUTOMATIC SUBMERGED ARC & SHIELDED METAL ARC PROCESSES. ALL WELDS ARE CONTINUOUS U.N.

3). NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.

CLEANING:

1). ALL STEEL SHALL BE BLAST CLEANED AS PER SSPC SP-10 PER SPEC. 506.14(a)
2). 2mm RADIUS ON ALL EDGES OF PAINTED SURFACES.

PAINTING

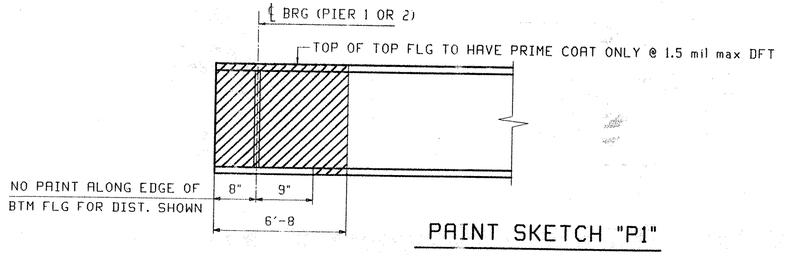
1). ALL STEEL COMPONENTS WITHIN 6'-0 OF THE BEARINGS @ PIER 1 & 2 SHALL BE COATED WITH THE PROTECTIVE SYSTEM ACCORDING TO SECTION 513 OF THE SPECIFICATION. (SEE SKETCHE "P1") THE PAINT COLOR SHALL BE BROWN. PAINT SYSTEM MUST BE SYSTEM LISTED ON THE QUALIFIED PRODUCT LIST SECTION 513.02 BROWN COLOR CHIP #20059. PROTECTIVE GREASE SHALL BE APPLIED IN THE FIELD BY OTHERS.

FIELD CONNECTIONS

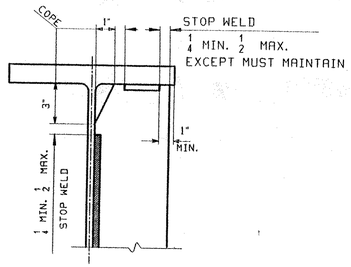
1). ALL FIELD CONNECTIONS SHALL BE MADE WITH 22mm (7/8") DIAMETER HIGH STRENGTH A-325 BOLTS, INSTALLED PER SECTION 506.19(c).

2). BOLTS SHALL HAVE HEAVY HEX NUT, HEX HEAD, & ONE FLAT WASHER EACH (WASHER TO BE PLACED UNDER TURNED ELEMENT).

3). PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS.



PAINT SKETCH "P1"



DETAIL "WSI"

NOTE TO ENGINEER:
THESE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE AND COMPLIANCE WITH RELEVANT SPECIFICATIONS REMAIN UNCHANGED.

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-3-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-1-04									
	FIELD & OFFICE										

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		AS NOTED	AS NOTED

SURFACE PREP. & PAINT:

ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

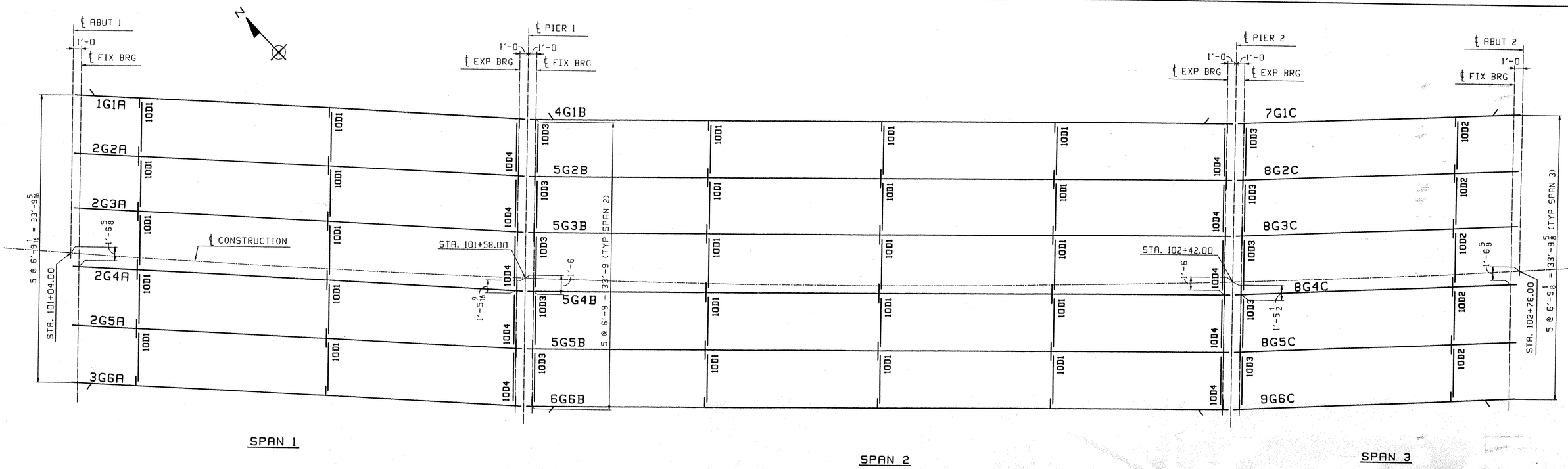
DESCRIPTION: GENERAL NOTES	DRAWN BY	DATE
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	WL	02/19
BRIDGE NO. , PROJ BHO 1447(26)	CHKD BY	
LYNDON, VT CALEDONIA COUNTY)	JTB	02/19
TENSOR 2425 CONTRACTOR AUSTIN CONSTRUCTION	APPROV BY	
	SUPERVISOR	W. J. GATTI
PROJ NO. BHO 1447 (26)	Q.A.	
CUSTOMER: VERMONT A. O. T.		

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	GN1
	REV. △

05255

JTB Mon Feb 23 10:42:21 EST 2004 /users/jobs/2425/GN1.Rev0



FRAMING PLAN

FIELD BOLT LIST							A325 Type 3 BOLTS								
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS /CONN	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED							WASH CODE	PIECES CONNECTED AND REMARKS
1															**DIAPHRAGM 1OD1**
2	250	7/8	2 1/4	5	50	15/16	7/16	1/2						1	DIAPHRAGM WEB TO CONNECTION PLATE
3															
4															**DIAPHRAGM 1OD2**
5	40	7/8	2 1/4	4	10	7/8	3/8	1/2						1	DIAPHRAGM WEB TO CONNECTION PLATE

WASHER CODES

1: 1 Hard Flat Washer

FIELD BOLT LIST							A325 Type 1 BOLTS (GALV)								
LINE	NO REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS /CONN	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED							WASH CODE	PIECES CONNECTED AND REMARKS
6															**DIAPHRAGMS 1OD3 & 1OD4**
7	400	7/8	2 1/4	10	40	15/16	7/16	1/2						1	DIAPHRAGM WEB TO CONNECTION PLATE

WASHER CODES

1: 1 Hard Flat Washer

FIELD BOLT SUMMARY			2% ADDED, MIN. 2 EXTRA			
LINE	NO. OF BOLTS	BOLT DIAM.	TYPE	BOLT LEN.	ACTUAL COUNT	REMARKS
1	296	7/8	A325 Type 3	2 1/4	290	
2						
3	296	Hard Flat Washers	for 7/8 ø	BOLT		
4						
5						
6	408	7/8	A325 Type 1	2 1/4	400	GALVANIZED
7						
8	408	Hard Flat Washers	for 7/8 ø	BOLT		GALVANIZED

APPROVED 4-5-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-15-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-7-04									
	FIELD & OFFICE										

MATERIAL: M270-50W

ELECTRODES:

HOLES: 15/16"ø

SHOP BOLTS:

SURFACE PREP. & PAINT: SEE DRAWING GN1

DESCRIPTION: FRAMING PLAN

JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER
BRIDGE NO. 2, PROJ BHO 1447(26)
LYNDON, VT (CALEDONIA COUNTY)

TENSOR 2425 CONTRACTOR: AUSTIN CONSTRUCTION

PROJ NO. BHO 1447 (26)

CUSTOMER: VERMONT A. O. T.

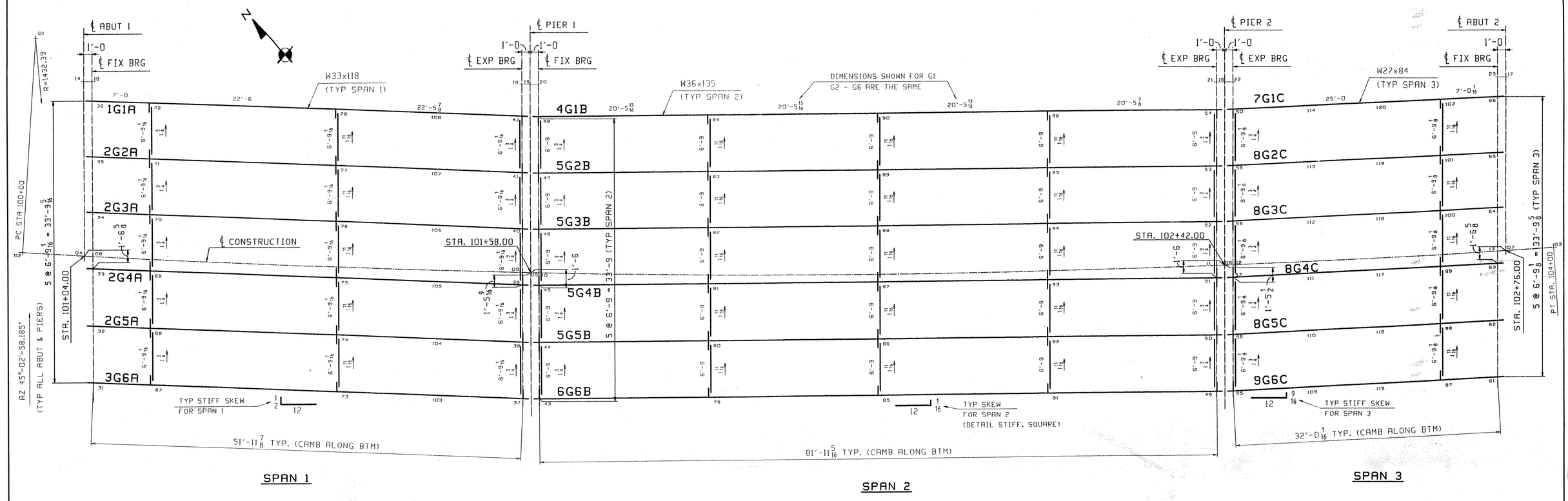
DRAWN BY	DATE
JTB	02/19
CHKD BY	
LF	03/15
APPROV BY	
SUPERVISOR	W. J. GATTI
Q.A.	

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	E1
	REV. △

05355

LF Mon Mar 15 09:09:48 EST 2004 /users/jobs/2425/E1.dwg



CALCULATION PLAN

	LONGITUDINAL SLOPES					
Line	ABUT 1	Pier 1 BK	Pier 1 AHD	Pier 2 BK	Pier 2 AHD	ABUT 2
1	.0330	.0143	.0115	-.0198	-.0185	-.0374
2	.0327	.0142	.0114	-.0196	-.0183	-.0371
3	.0324	.0141	.0113	-.0194	-.0181	-.0368
4	.0321	.0140	.0112	-.0192	-.0179	-.0364
5	.0318	.0138	.0111	-.0191	-.0177	-.0362
6	.0315	.0137	.0110	-.0189	-.0175	-.0359

**** NOTE ****
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

NOTES
1. LONGITUDINAL DIMENSIONS ARE SLOPING ALONG BOTT OF WEB WITH CORRECTIONS MADE FOR VERTICAL CURVE, GRADE & DL CAMBER (UN).
2. TRANSVERSE DIMENSIONS ARE IN A HORIZ. PLANE (UN).
3. DROP ARROW POINTS TOWARDS LOW END OF MEMBER.
4. ENDS OF GIRDERS AND BRG. STIFF'S ARE VERTICAL AFTER DL ROTATION.
5. CF STIFF ARE NORMAL TO GRADE.
6. BOTT PT NUMBERS =TOP PT NUMBERS + 200.
7. FOR LAYOUTS SEE DWG "TD" SHEETS.
8. DIAPHRAGM DROPS ARE CALCULATED IN THEIR FINAL POSITION.

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-7-04									
	FIELD & OFFICE										

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		AS NOTED	AS NOTED

SURFACE PREP. & PAINT:

ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

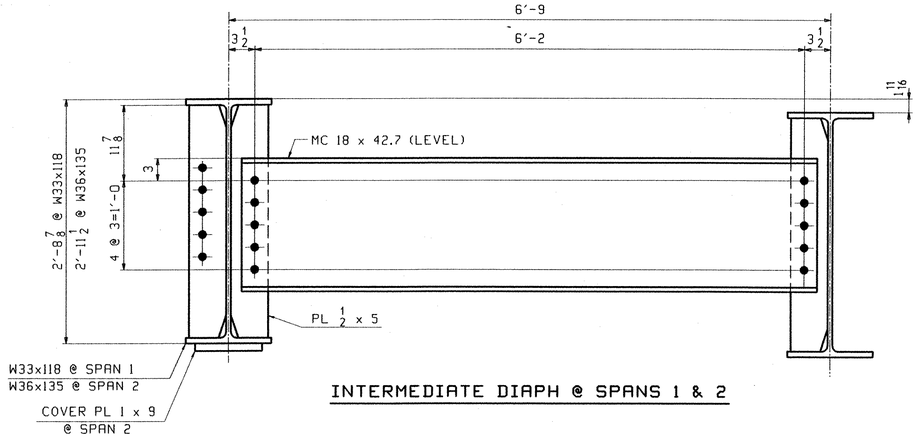
DESCRIPTION:	CALCULATION PLAN	DRAWN BY	DATE
JOB:	CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	WL	02/18
	BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
	LYNDON, VT (CALEDONIA COUNTY)	JTB	02/19
TENSOR 2425	CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
		SUPERVISOR	W. J. GATTI
PROJ NO.	BHO 1447 (26)	Q.A.	
CUSTOMER:	VERMONT A. O. T.		

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

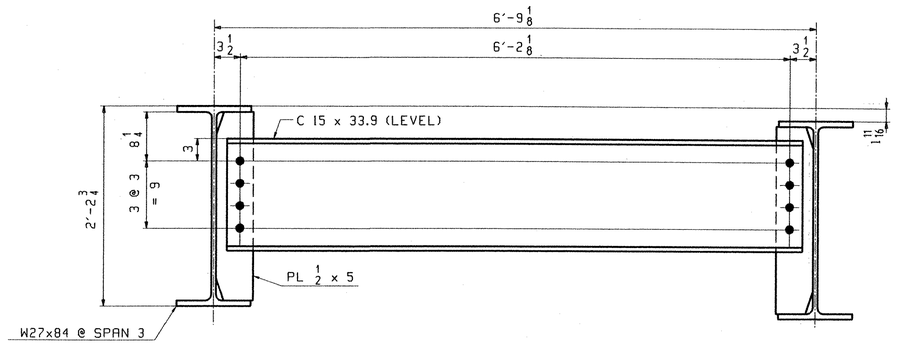
JOB NO.	DRG. NO.
227	WS1
	REV. △

054 55

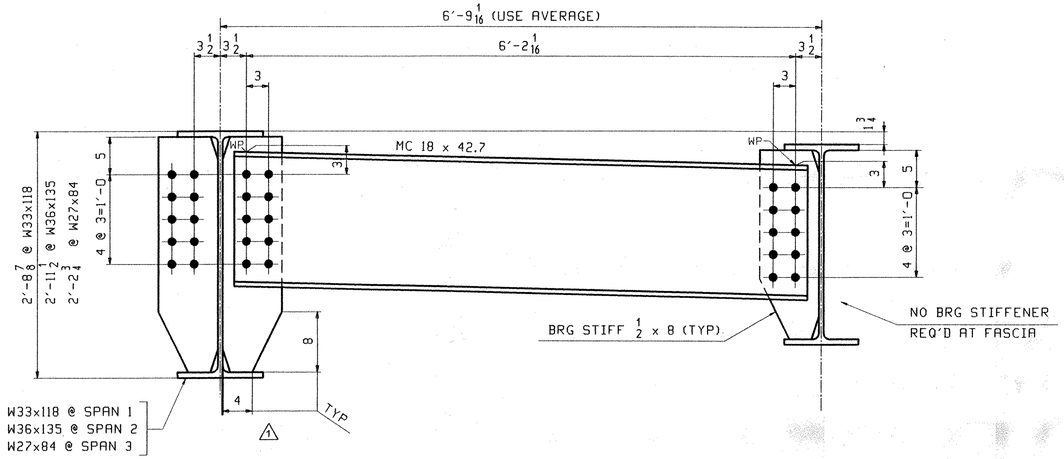
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INTERMEDIATE DIAPH @ SPANS 1 & 2



INTERMEDIATE DIAPH @ SPAN 3



DIAPH @ PIERS 1 & 2

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-7-04									
	FIELD & OFFICE										
1	Appl comm	5/11	WL	LF							

MATERIAL: M270-50W	ELECTRODES:	HOLES: 15/16"Ø	SHOP BOLTS: AS NOTED
SURFACE PREP. & PAINT: ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.			

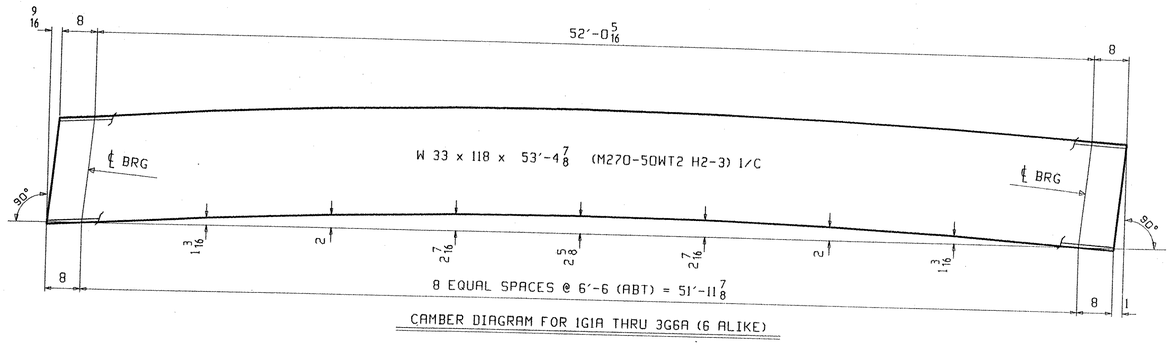
DESCRIPTION: DIAPHRAGM LAYOUTS		DRAWN BY	DATE
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER		WL	02/18
		CHKD BY	
BRIDGE NO. 2, PROJ BHO 1447(26)		JTB	02/19
LYNDON, VT (CALEDONIA COUNTY)		APPROV BY	
TENSOR 2425 CONTRACTOR: AUSTIN CONSTRUCTION		SUPERVISOR	W. J. GATTI
PROJ NO. BHO 1447 (26)		Q.A.	
CUSTOMER: VERMONT A. O. T.			

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

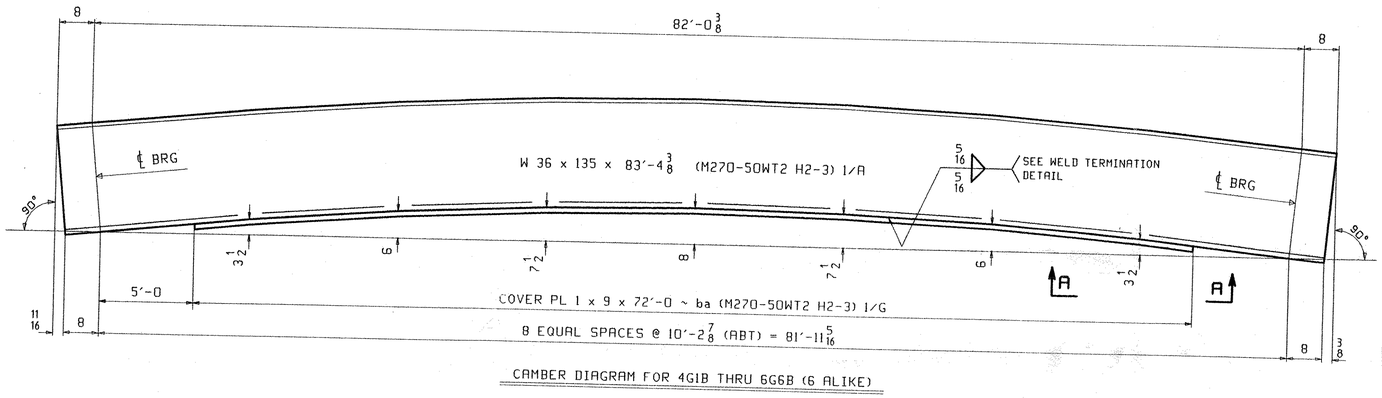
JOB NO.	DRG. NO.
227	TD1
	REV. 1

055 55

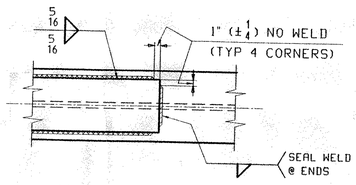
LF Tue May 11 07:50:26 EDT 2004 /users/jobs/2425/TD1.dwg



CAMBER DIAGRAM FOR 1G1A THRU 3G6A (6 ALIKE)

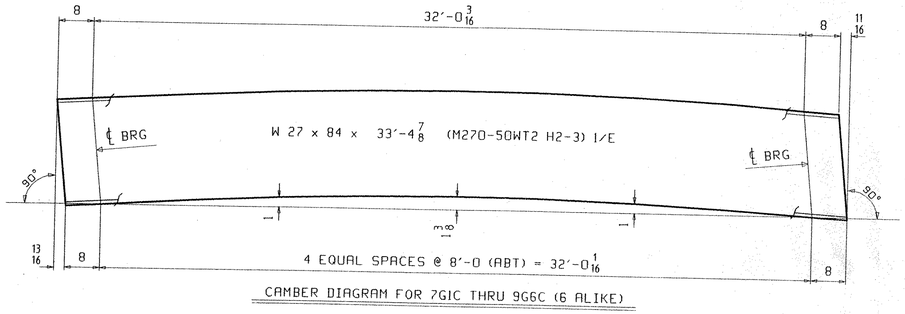


CAMBER DIAGRAM FOR 4G1B THRU 6G6B (6 ALIKE)



VIEW A-A

WELD TERMINATION DETAIL
TYPICAL EACH END



CAMBER DIAGRAM FOR 7G1C THRU 9G6C (6 ALIKE)

APPROVED 4.5.04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3.18.04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6.7.04									
	FIELD & OFFICE										

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		AS NOTED	AS NOTED

SURFACE PREP. & PAINT:

ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: CAMBER DIAGRAM

JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER
BRIDGE NO. 2, PROJ BHO 1447(26)
LYNDON, VT (CALEDONIA COUNTY)
CONTRACTOR: AUSTIN CONSTRUCTION

PROJ NO. BHO 1447 (26)

CUSTOMER: VERMONT A. O. T.

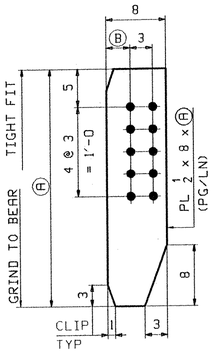
DRAWN BY	DATE
WL	02/19
CHKD BY	
JTB	02/19
APPROV BY	
SUPERVISOR	W. J. GATTI
Q.A.	

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	C1
	REV. △

05655

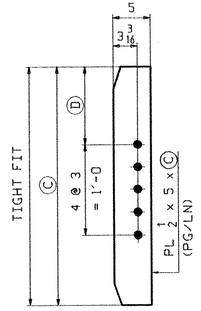
JTB Mon Feb 23 09:40:02 EST 2004 c:\work\jobs\2425\C1.dwg



MARK "A"

BRG DIAPH CONN PL

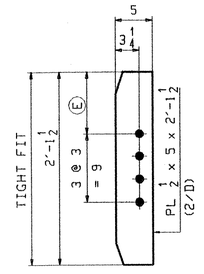
MARK "A"	QTY	Ⓐ	Ⓑ	PG/LN	
x1a	10	2'-7 3/8	3 3/16	2/F	SPAN 1
x1b	20	2'-9 7/8	3 3/16	2/G	SPAN 2
x1c	10	2'-1 1/2	3 1/4	2/H	SPAN 3



MARK "B"

INT DIAPH CONN PL

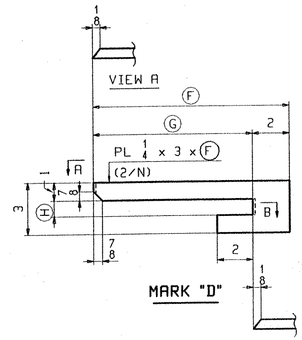
MARK "B"	QTY	Ⓒ	Ⓓ	PG/LN	
x1d	10	2'-7 3/8	11 7/8	2/B	SPAN 1 (HIGH)
x1f	10	2'-7 3/8	10 3/16	2/B	SPAN 1 (LOW)
x1g	15	2'-9 7/8	11 7/8	2/C	SPAN 2 (HIGH)
x1h	15	2'-9 7/8	10 3/16	2/C	SPAN 2 (LOW)



MARK "C"

INT DIAPH CONN PL

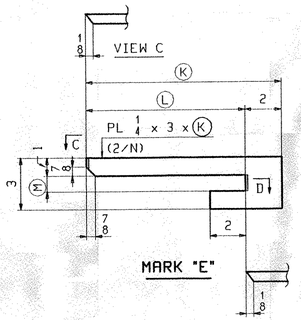
MARK "C"	QTY	Ⓔ	
x1k	5	8 1/4	SPAN 3 (HIGH)
x1m	5	6 9/16	SPAN 3 (LOW)



MARK "D"

SECTION B

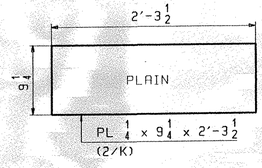
MARK "D"	QTY	Ⓕ	Ⓖ	Ⓗ	
x1n	1	8 5/16	6 5/16	3/4	SPAN 1 LINE 1
x1p	2	8 9/16	6 9/16	13/16	SPAN 2 LINE 1 (PIER 1 END) SPAN 2 LINE 6 (PIER 2 END)
x1t	1	7 1/2	5 1/2	5/8	SPAN 3 LINE 6



MARK "E"

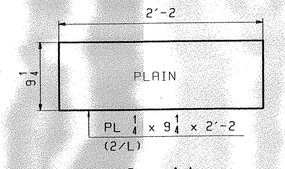
SECTION D

MARK "E"	QTY	Ⓚ	Ⓛ	Ⓜ	
x1v	1	8 5/16	6 5/16	3/4	SPAN 1 LINE 6
x1w	2	8 9/16	6 9/16	13/16	SPAN 2 LINE 1 (PIER 2 END) SPAN 2 LINE 6 (PIER 1 END)
x1y	1	7 1/2	5 1/2	5/8	SPAN 3 LINE 1



6 ~ x1aa

END PLATE ABUT 1



6 ~ x1ab

END PLATE ABUT 2

NOTES:

1. ALL MATERIAL TO BE A709-50W.
2. FOR GENERAL NOTES SEE DRAWING GN1.
3. ALL BOLT HOLES SHALL BE 15/16"Ø FOR 7/8"Ø HSB.

APPROVED 4-8-04

OUT FOR APPROVAL	3-18-04									
OUT FOR APPROVAL										
ISSUED TO SHOP	6-7-04									
FIELD & OFFICE										
REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		15/16"Ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

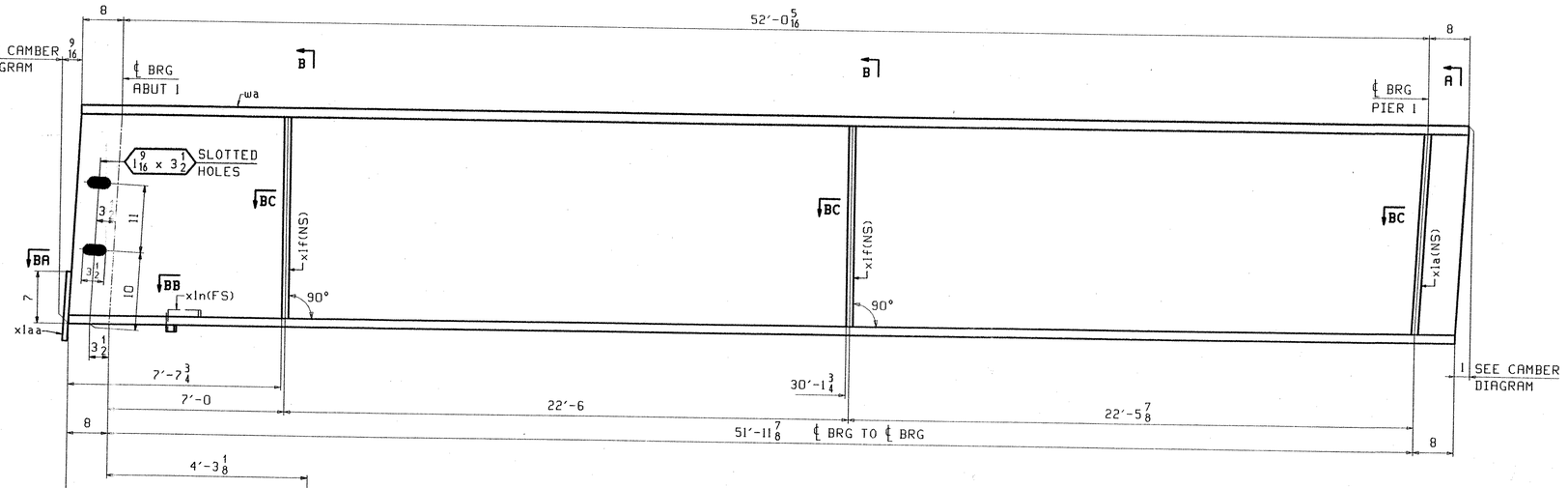
DESCRIPTION: STRINGER STANDARDS	DRAWN BY	DATE
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/19
BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
LYNDON, VT (CALEDONIA COUNTY)	LF	03/15
TENSOR 2425 CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
PROJ NO. BHO 1447 (26)	SUPERVISOR	W. J. GATTI
CUSTOMER: VERMONT A. O. T.	Q.A.	

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	X1
	REV. △

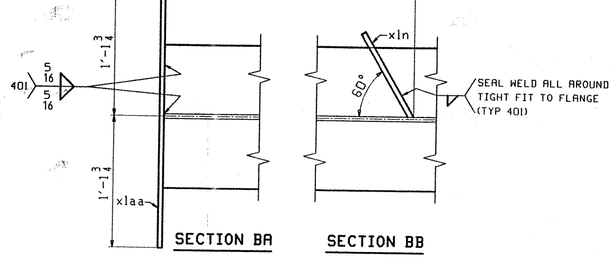
05755

LF Mon Mar 15 09:31:18 EST 2004 /users/jobs/2425/x1.dwg



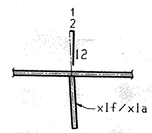
ONE - STRINGER - 1G1A

FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

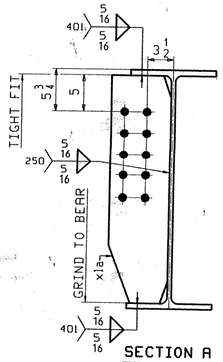


SECTION BA

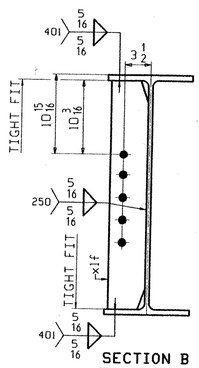
SECTION BB



SECTION BC

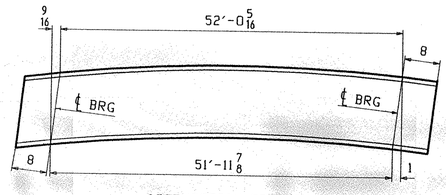


SECTION A



SECTION B

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.	REV.
									1	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES
		1G1A	1		STRINGER				6402	
1	C		1	wa	W 33x118	53	4 7/8	(M270-50WT2) (H2-3)		
2	B		2	x1f	PL 1/2x5	2	7 3/8			
2	F		1	x1a	PL 1/2x8	2	7 3/8	F1E		
2	N		1	x1n	PL 1/4x3	0	8 5/16			
2	K		1	x1aa	PL 1/4x9 1/4	2	3 1/2			



ORIENTATION DIAGRAM
SEE DWG C1

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-7-04									
	FIELD & OFFICE										

MATERIAL: M270-50W
ELECTRODES:
HOLES: 15/16 ø
SHOP BOLTS:

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: STRINGER - 1G1A	DRAWN BY	DATE
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/20
BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
LYNDON, VT (CALEDONIA COUNTY)	LF	03/15
TENSOR 2425 CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
PROJ NO. BHO 1447 (26)	SUPERVISOR	W. J. GATTI
CUSTOMER: VERMONT A. O. T.	Q.A.	

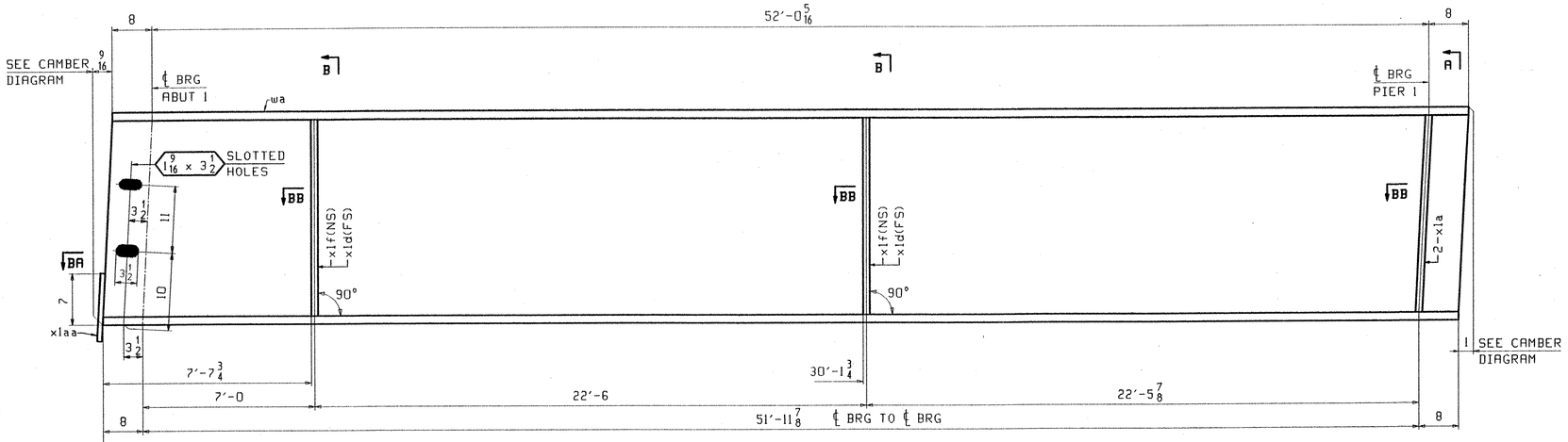
CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	1
	REV. △

05855

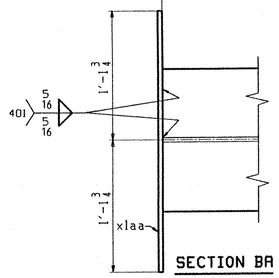
LF Mon Mar 15 09:29:56 EST 2004 /users/jmk/2425/1.0x.0

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.	REV.
									2	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES
		2G2A	1		STRINGER				6480	
		2G3A	1		STRINGER				6480	
		2G4A	1		STRINGER				6480	
		2G5A	1		STRINGER				6480	
1	C		4	wa	W 33x118	53	$4\frac{7}{8}$	(M270-50WT2) (H2-3)		
2	B		8	x1f	PL $\frac{1}{2}$x5	2	$7\frac{3}{8}$			
2	B		8	x1d	PL $\frac{1}{2}$x5	2	$7\frac{3}{8}$			
2	F		8	x1a	PL $\frac{1}{2}$x8	2	$7\frac{3}{8}$	FIE		
2	K		4	x1aa	PL $\frac{1}{4}$x9$\frac{1}{4}$	2	$3\frac{1}{2}$			

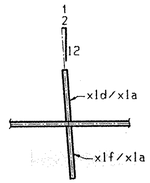


ONE - STRINGER - 2G2A
ONE - STRINGER - 2G3A
ONE - STRINGER - 2G4A
ONE - STRINGER - 2G5A
} ALIKE EXCEPT FOR MARK

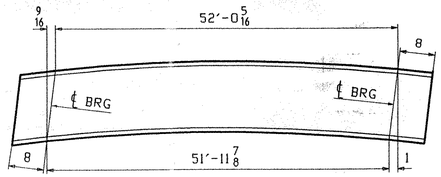
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



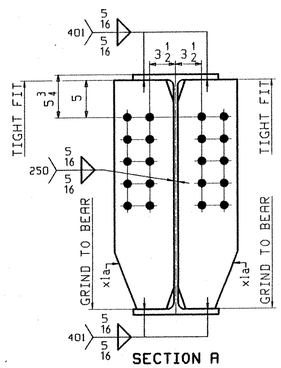
SECTION BA



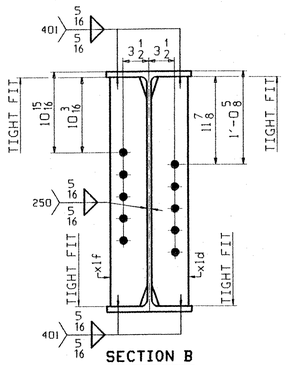
SECTION BB



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

APPROVED 4-8-04

OUT FOR APPROVAL	3-18-04										
OUT FOR APPROVAL											
ISSUED TO SHOP	6-7-04										
FIELD & OFFICE											
REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		$\frac{15}{16}$"ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: STRINGERS - 2G2A, 2G3A, 2G4A, 2G5A	DRAWN BY	DATE
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/20
	CHKD BY	
BRIDGE NO. 2, PROJ BHO 1447(26)	LF	03/15
LYNDON, VT (CALEDONIA COUNTY)	APPROV BY	
TENSOR 2425 CONTRACTOR: AUSTIN CONSTRUCTION	SUPERVISOR	W. J. GATTI
PROJ NO. BHO 1447 (26)	Q.A.	
CUSTOMER: VERMONT A. O. T.		

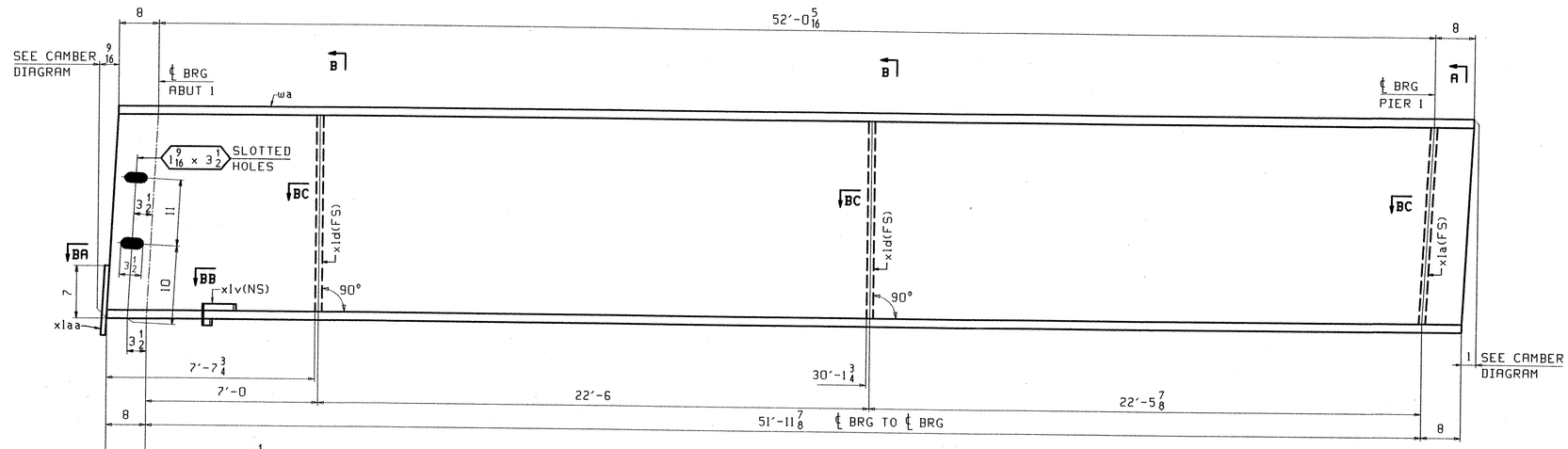
CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	2
	REV. △

059.55

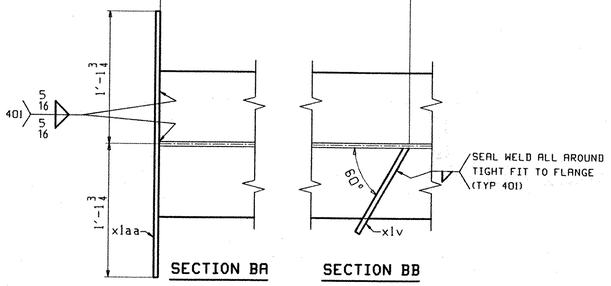
LF Mon Mar 15 09:26:03 EST 2004 /users/jaar/2425.d : Rev:0

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.		REV.
									3		
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES	
		3G6A	1		STRINGER				6402		
1	C		1	wa	W 33x118	53	4 7/8	(M270-50WT2) (H2-3)			
2	B		2	x1d	PL 1/2x5	2	7 3/8				
2	F		1	x1a	PL 1/2x8	2	7 3/8	FIE			
2	N		1	x1v	PL 1/4x3	0	8 5/16				
2	K		1	x1aa	PL 1/4x9 1/4	2	3 1/2				



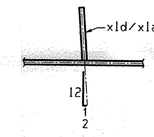
ONE - STRINGER - 3G6A

FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

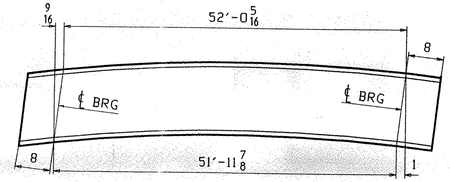


SECTION BA

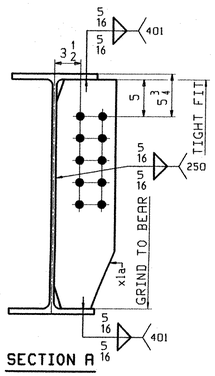
SECTION BB



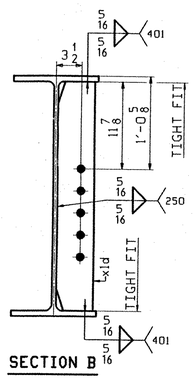
SECTION BC



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

APPROVED 4-5-04

OUT FOR APPROVAL	3/18/04											
OUT FOR APPROVAL												
ISSUED TO SHOP	6-7-04											
FIELD & OFFICE												
1 Appl comm	5/10	JTB	LF									
REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER	

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		15/16"ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

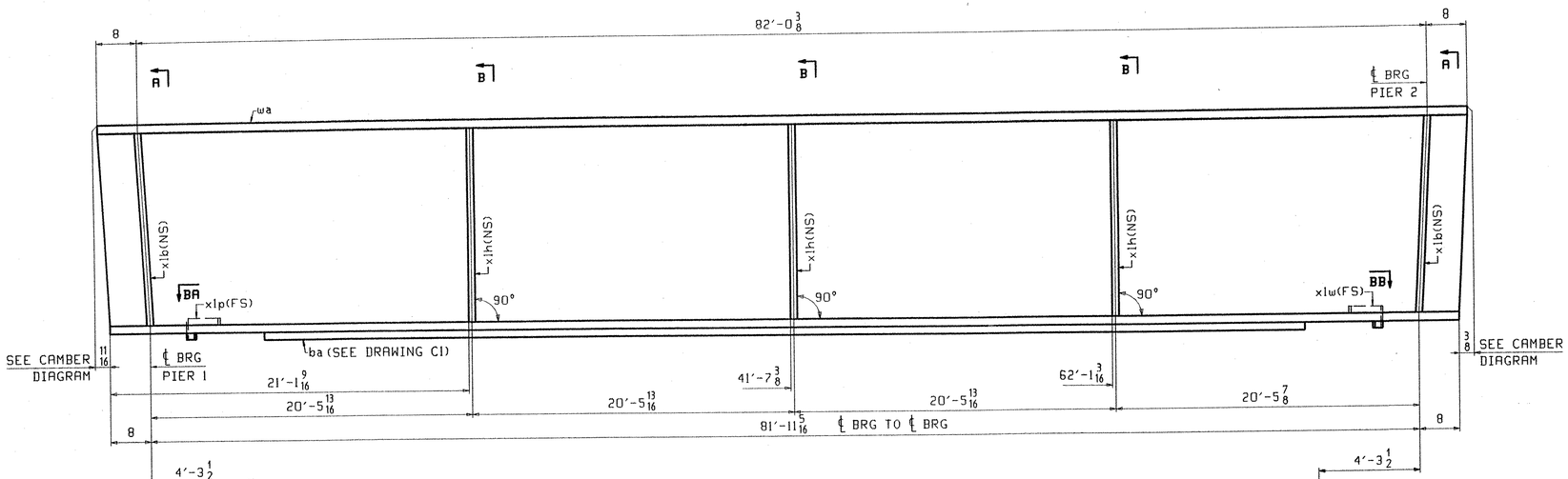
DESCRIPTION: STRINGER - 3G6A	DRAWN BY	DATE
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/20
BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
LYNDON, VT (CALEDONIA COUNTY)	LF	03/15
TENSOR 2425 CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
	SUPERVISOR	W. J. GATTI
PROJ NO. BHO 1447 (26)	Q.A.	
CUSTOMER: VERMONT A. O. T.		

CASCO BAY STEEL STRUCTURES, INC.
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JOB NO.	DRG. NO.
227	3
	REV. 1

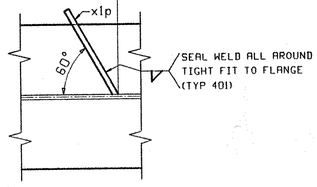
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LF Tue May 11 08:55:54 EDT 2004 /users/jobs/2425/3.dwg

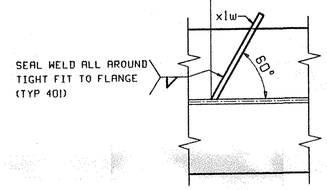


ONE - STRINGER - 4G1B

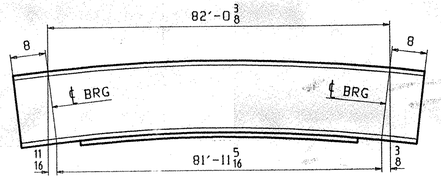
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



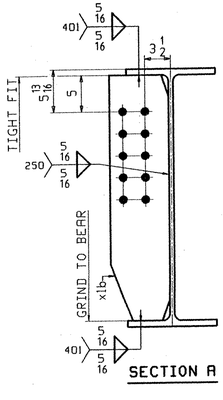
SECTION BA



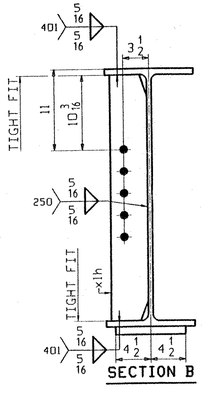
SECTION BB



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.	REV.
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES
									4	
		4G1B	1		STRINGER				13612	
1	A		1	wa	W 36x135	83	4 3/8	(M270-50WT2) (H2-3)		
1	G		1	ba	PL 1x9	72	0	(M270-50WT2) (H2-3)		
2	G		2	x1b	PL 1/2x8	2	9 7/8	FIE		
2	C		3	x1h	PL 1/2x5	2	9 7/8			
2	N		1	x1p	PL 1/4x3	0	8 9/16			
2	N		1	x1w	PL 1/4x3	0	8 9/16			

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	4-7-04									
	FIELD & OFFICE										

MATERIAL: M270-50W
ELECTRODES:
HOLES: 15/16" Ø
SHOP BOLTS:

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: STRINGER - 4G1B
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER
BRIDGE NO. 2, PROJ BHO 1447(26)
LYNDON, VT (CALEDONIA COUNTY)
CONTRACTOR: AUSTIN CONSTRUCTION
PROJ NO. BHO 1447 (26)
CUSTOMER: VERMONT A. O. T.

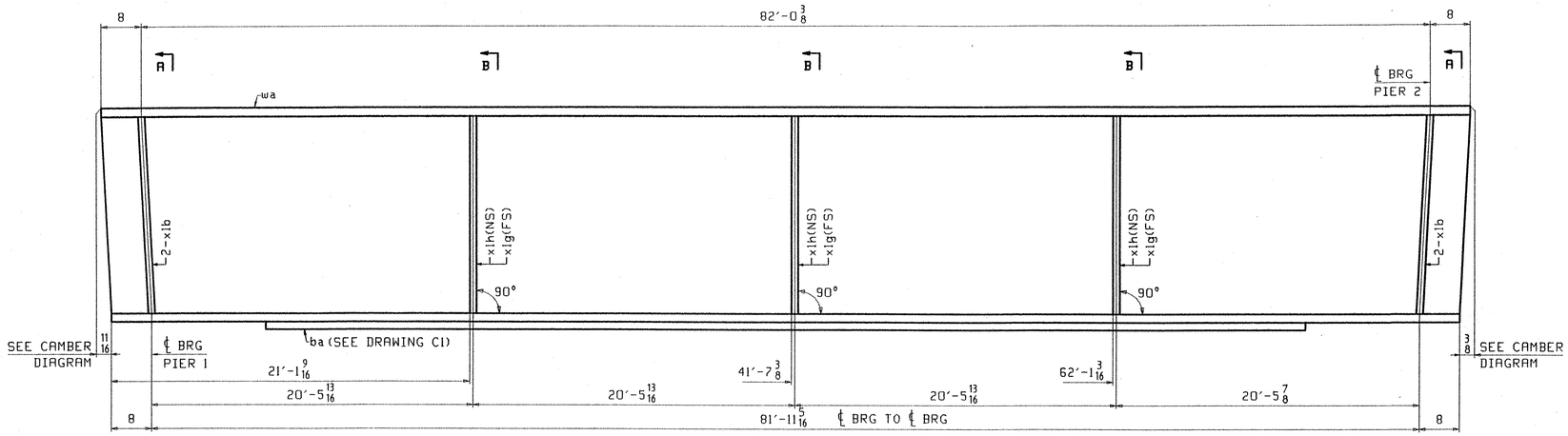
	DRAWN BY	DATE
	JTB	02/20
	CHKD BY	
	LF	03/15
	APPROV BY	
	SUPERVISOR	W. J. GATTI
	Q.A.	

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	4
	REV. △

061 55

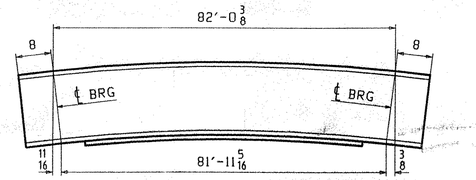
LF Mon Mar 15 09:31:48 CST 2004 /users/jobs/2425/4.dwg



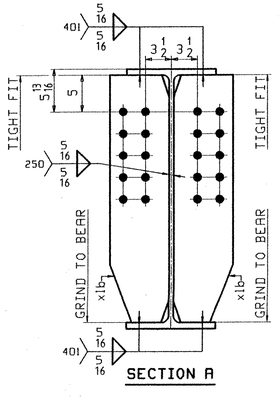
ONE - STRINGER - 5G2B
ONE - STRINGER - 5G3B
ONE - STRINGER - 5G4B
ONE - STRINGER - 5G5B

ALIKE EXCEPT FOR MARK

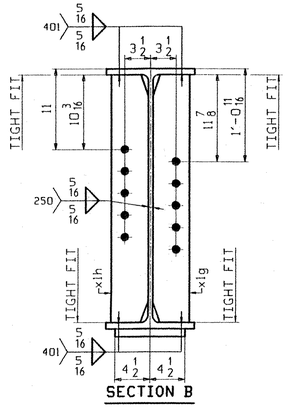
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.		REV.
									5		
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES	
		5G2B	1		STRINGER				13757		
		5G3B	1		STRINGER				13757		
		5G4B	1		STRINGER				13757		
		5G5B	1		STRINGER				13757		
1	A		4	wa	W 36x135	83	4 3/8	(M270-50W T2) (H2-3)			
1	G		4	ba	PL 1x9	72	0	(M270-50W T2) (H2-3)			
2	G		16	x1b	PL 1/2x8	2	9 7/8	F1E			
2	C		12	x1h	PL 1/2x5	2	9 7/8				
2	C		12	x1g	PL 1/2x5	2	9 7/8				

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.
	OUT FOR APPROVAL	3-18-04				
	OUT FOR APPROVAL					
	ISSUED TO SHOP	6-7-04				
	FIELD & OFFICE					

NO.	DIA.	LGT	TYPE	WASHER

MATERIAL: M270-50W
ELECTRODES:
HOLES: 15/16"ø
SHOP BOLTS:

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: STRINGERS - 5G2B, 5G3B, 5G4B, 5G5B
JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER
BRIDGE NO. 2, PROJ BHO 1447(26)
LYNDON, VT (CALEDONIA COUNTY)
CONTRACTOR: AUSTIN CONSTRUCTION
PROJ NO. BHO 1447 (26)
CUSTOMER: VERMONT A. O. T.

DRAWN BY	DATE
JTB	02/20
CHKD BY	
LF	03/15
APPROV BY	
SUPERVISOR	W. J. GATTI
Q.A.	

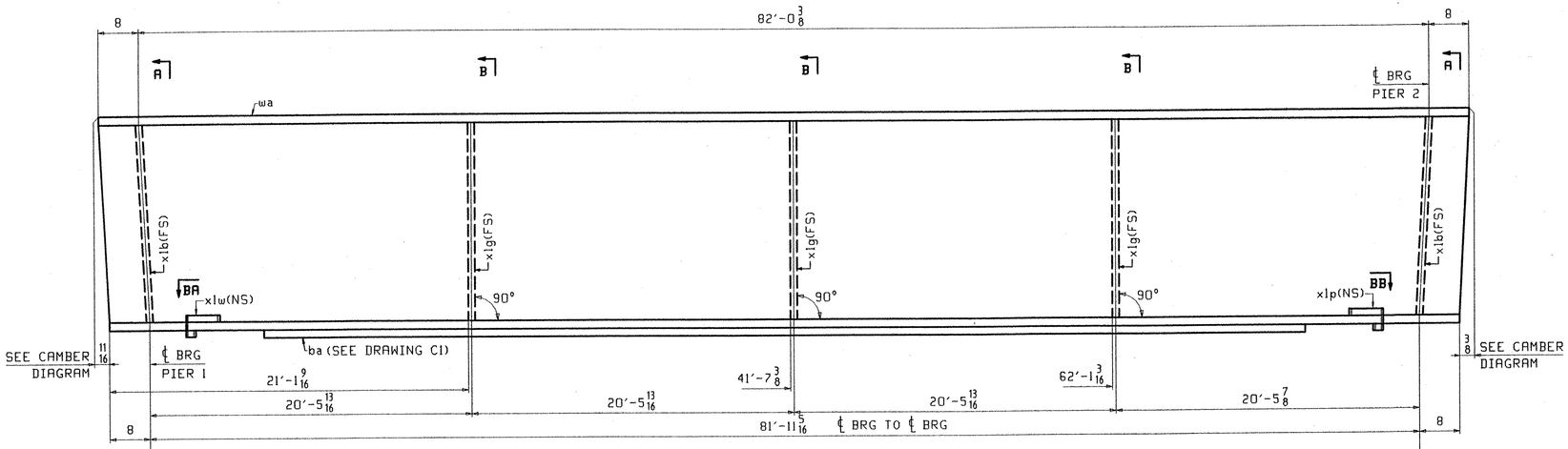
CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	5
	REV. △

06255

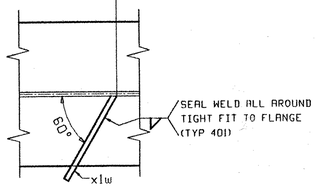
LF Mon Mar 15 09:24:00 EST 2004 /users/jobs/2425/5 Rev0

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.	REV.
									6	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES
		6G6B	1		STRINGER				13612	
1	A		1	wa	W 36x135	83	4 3/8	(M270-50WT2) (H2-3)		
1	G		1	ba	PL 1x9	72	0	(M270-50WT2) (H2-3)		
2	G		2	x1b	PL 1/2x8	2	9 7/8	FIE		
2	C		3	x1g	PL 1/2x5	2	9 7/8			
2	N		1	x1p	PL 1/4x3	0	8 9/16			
2	N		1	x1w	PL 1/4x3	0	8 9/16			

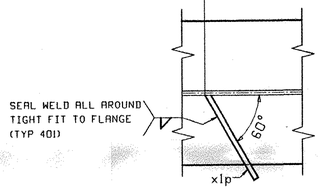


ONE - STRINGER - 6G6B

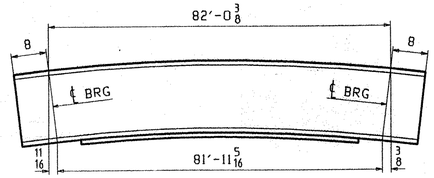
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



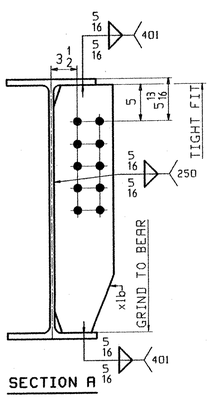
SECTION BA



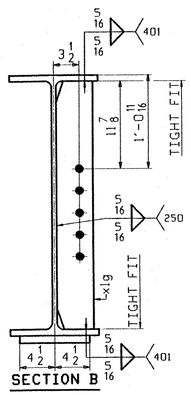
SECTION BB



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-7-04									
	FIELD & OFFICE										

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		15/16 ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

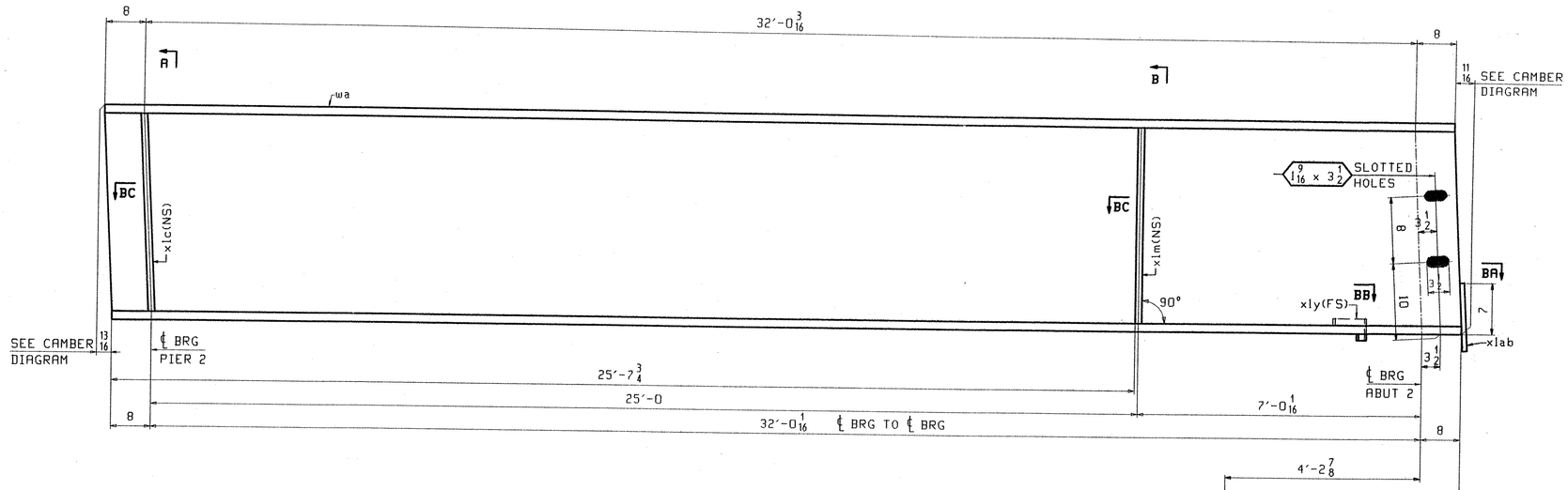
DESCRIPTION:	STRINGER - 6G6B	DRAWN BY	DATE
JOB:	CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/20
	BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
	LYNDON, VT (CALEDONIA COUNTY)	LF	03/15
TENSOR 2425	CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
PROJ NO.	BHO 1447 (26)	SUPERVISOR	W. J. GATTI
CUSTOMER:	VERMONT A. O. T.	Q.A.	

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PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	6
	REV. △

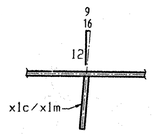
LF Mon Mar 15 09:36:16 EST 2004 /users/jobs/2425/6.dwg

06355

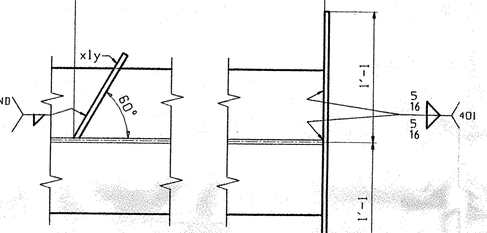


ONE - STRINGER - 7G1C

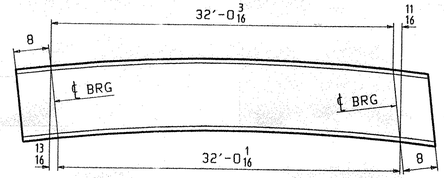
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



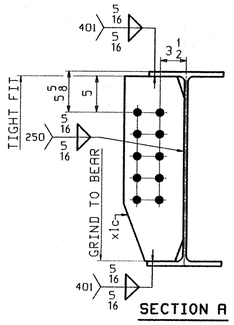
SECTION BC



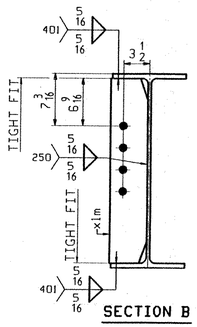
SECTION BB SECTION BA



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

ABM INFO		SHIP	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES
PAGE	LINE	MARK								
		7G1C	1		STRINGER				2872	
1	E		1	wa	W 27x84	33	4 7/8	(M270-50WT2) (H2-3)		
2	H		1	x1c	PL 1/2x8	2	1 1/2	FIE		
2	D		1	x1m	PL 1/2x5	2	1 1/2			
2	N		1	x1y	PL 1/4x3	0	7 1/2			
2	L		1	x1ab	PL 1/4x9 1/4	2	2			

BILL OF MATERIAL

JOB NO.

DRAWING NO. 7

REV.

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.
	OUT FOR APPROVAL	3-18-04				
	OUT FOR APPROVAL					
	ISSUED TO SHOP	4-7-04				
	FIELD & OFFICE					

NO.	DIA.	LGT	TYPE	WASHER

MATERIAL: M270-50W

ELECTRODES:

HOLES: 15/16 ø

SHOP BOLTS:

SURFACE PREP. & PAINT:
SEE DRAWING GN1

ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: STRINGER - 7G1C

JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER
BRIDGE NO. 2, PROJ BHO 1447(26)
LYNDON, VT (CALEDONIA COUNTY)
CONTRACTOR: AUSTIN CONSTRUCTION

PROJ NO. BHO 1447 (26)

CUSTOMER: VERMONT A. O. T.

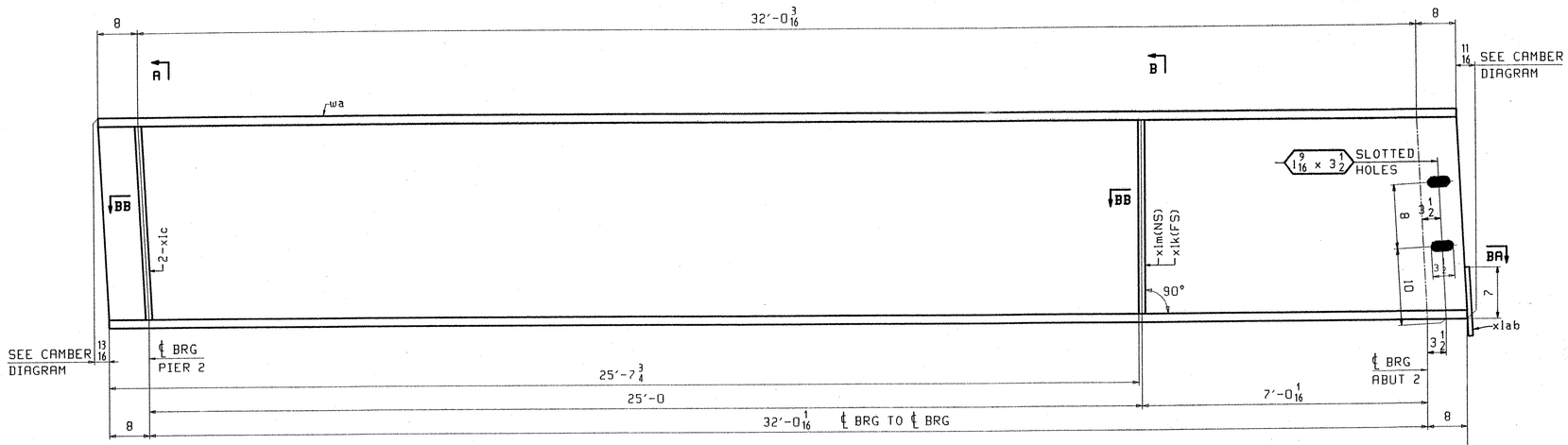
	DRAWN BY	DATE
	JTB	02/20
	CHKD BY	
	LF	03/15
	APPROV BY	
	SUPERVISOR	W. J. GATTI
	Q.A.	

CASCO BAY STEEL STRUCTURES, INC.
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PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO. 227 | DRG. NO. 7 | REV. △

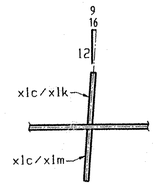
06455

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.		REV.
									8		
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES	
		BG2C	1		STRINGER				2917		
		BG3C	1		STRINGER				2917		
		BG4C	1		STRINGER				2917		
		BG5C	1		STRINGER				2917		
1	E		4	wa	W 27×84	33	4 7/8	(M270-50WT2) (H2-3)			
2	H		8	x1c	PL 1/2×8	2	1 1/2	FIE			
2	D		4	x1m	PL 1/2×5	2	1 1/2				
2	D		4	x1k	PL 1/2×5	2	1 1/2				
2	L		4	x1ab	PL 1/4×9 1/2	2	2				

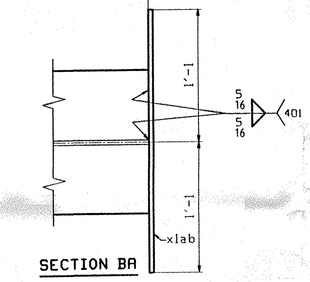


ONE - STRINGER - 8G2C
ONE - STRINGER - 8G3C
ONE - STRINGER - 8G4C
ONE - STRINGER - 8G5C
} ALIKE EXCEPT FOR MARK

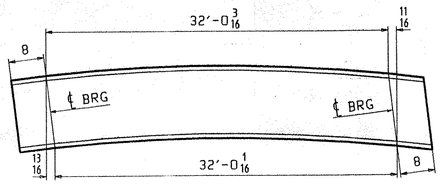
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



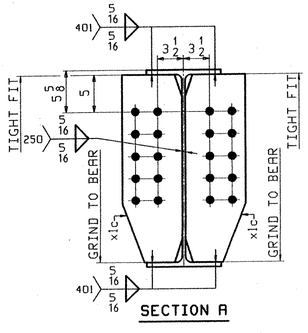
SECTION BB



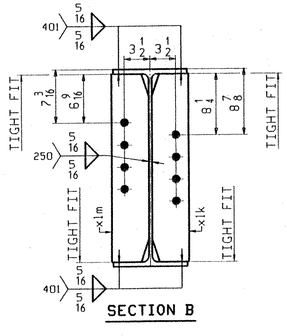
SECTION BA



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	4-7-04									
	FIELD & OFFICE										

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		15/16" ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION:	STRINGERS - 8G2C, 8G3C, 8G4C, 8G5C	DRAWN BY	DATE
JOB:	CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/20
	BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
	LYNDON, VT (CALEDONIA COUNTY)	LF	03/15
TENSOR 2425	CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
PROJ NO.	BHO 1447 (26)	SUPERVISOR	W. J. GATTI
CUSTOMER:	VERMONT A. O. T.	Q.A.	

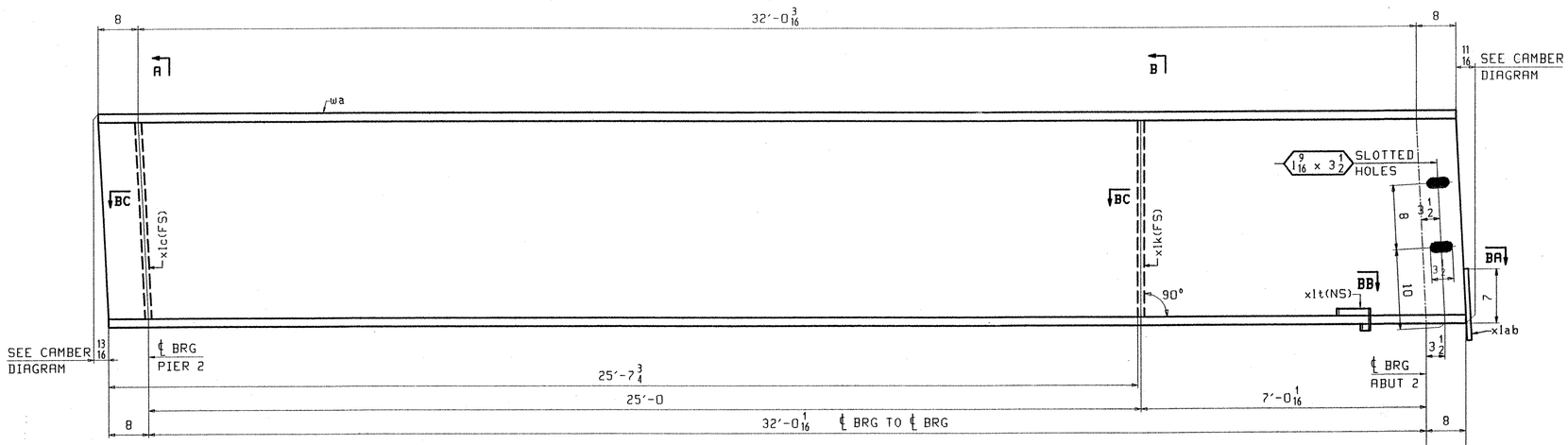
CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO.	DRG. NO.
227	8
	REV. △

06535

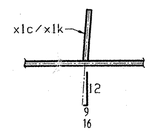
Mon Mar 15 08:40:03 EST 2004 c:\work_jobs\2425\8 | 8x40

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.	REV.
									9	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES
		9G6C	1		STRINGER				2872	
1	E		1	wa	W 27x84	33	4 7/8	(M270-50WT2) (H2-3)		
2	H		1	x1c	PL 1/2x8	2	1 1/2	FIE		
2	D		1	x1k	PL 1/2x5	2	1 1/2			
2	N		1	x1t	PL 1/4x3	0	7 1/2			
2	L		1	x1ab	PL 1/4x9 1/4	2	2			

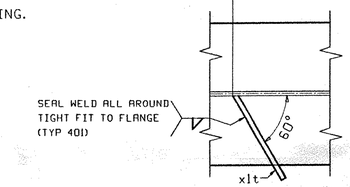


ONE - STRINGER - 9G6C

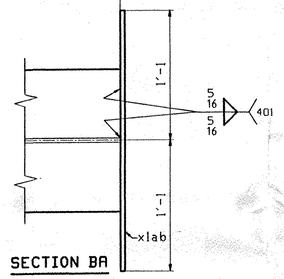
FOR STRINGER STANDARD DETAILS SEE DRAWING X1.
FOR CAMBER DIAGRAM SEE DRAWING C1.
FOR GENERAL NOTES SEE DRAWING GN1.
H2-3 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



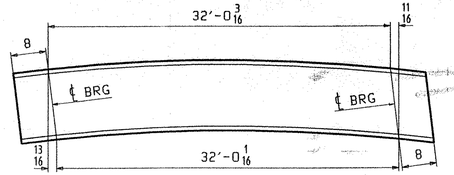
SECTION BC



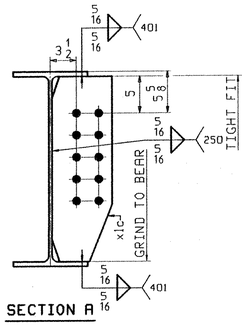
SECTION BB



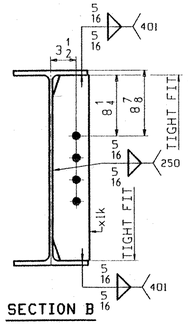
SECTION BA



ORIENTATION DIAGRAM
SEE DWG C1



SECTION A



SECTION B

APPROVED 4-8-04

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	3-18-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP	6-7-04									
	FIELD & OFFICE										

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		15/16 ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1
ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: STRINGER - 9G6C

JOB: CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER
BRIDGE NO. 2, PROJ BHO 1447(26)
LYNDON, VT (CALEDONIA COUNTY)
CONTRACTOR: AUSTIN CONSTRUCTION

PROJ NO. BHO 1447 (26)

CUSTOMER: VERMONT A. O. T.

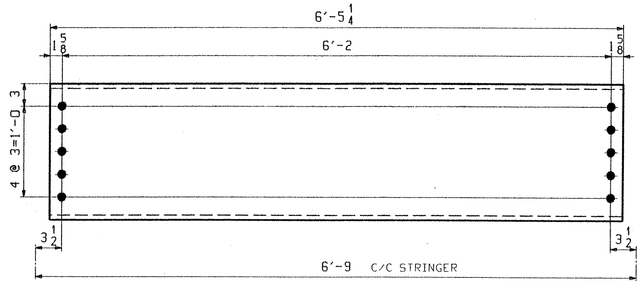
DRAWN BY	DATE
JTB	02/20
CHKD BY	
LF	03/15
APPROV BY	
SUPERVISOR	W. J. GATTI
Q.A.	

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

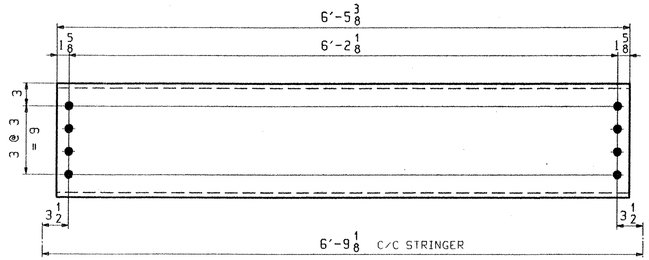
JOB NO.	DRG. NO.
227	9
	REV. △

06633

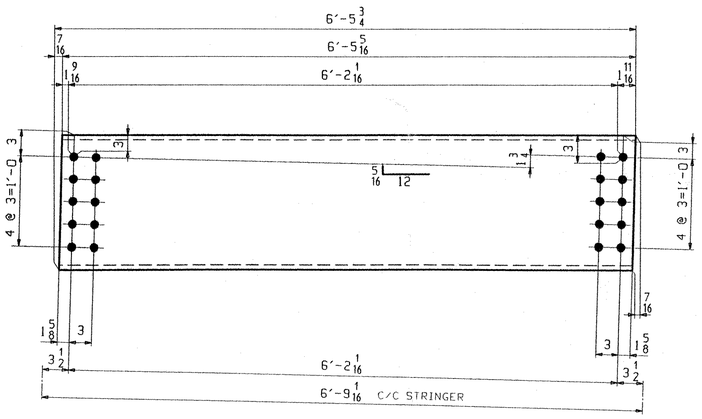
LF Mon Mar 15 08:42:26 EST 2004 /users/jobs/2425/9.dwg



25 ~ INT. DIAPHRAGM - 10D1

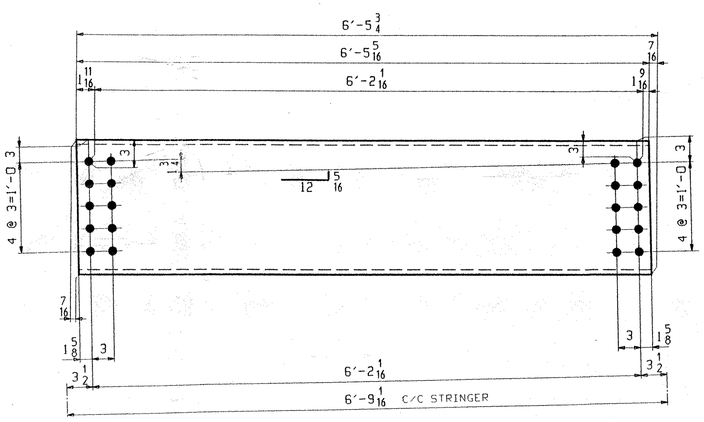


5 ~ INT. DIAPHRAGM - 10D2



10 ~ PIER DIAPHRAGM - 10D3

SHOP NOTE:
PIER DIAPHRAGMS 10D3 ARE PAINTED - SEE DRAWING GN1.



10 ~ PIER DIAPHRAGM - 10D4

SHOP NOTE:
PIER DIAPHRAGMS 10D4 ARE PAINTED - SEE DRAWING GN1.

ABM INFO		SHIP	BILL OF MATERIAL					JOB NO.	DRAWING NO.		REV.
									10		
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	LENGTH INCHES	REMARKS	WT	PROCUREMENT NOTES	
					INT DIAPHRAGMS						
2	R	10D1	25		MC 18x42.7	6	5 1/4		275		
2	S	10D2	5		C 15x33.9	6	5 3/8		219		
					PIER DIAPHRAGMS						
2	R	10D3	10		MC 18x42.7	6	5 3/4		277		
2	R	10D4	10		MC 18x42.7	6	5 3/4		277		

APPROVED 4-8-04

OUT FOR APPROVAL	3-18-04									
OUT FOR APPROVAL										
ISSUED TO SHOP	6-7-04									
FIELD & OFFICE										
REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER

MATERIAL:	ELECTRODES:	HOLES:	SHOP BOLTS:
M270-50W		15/16"ø	

SURFACE PREP. & PAINT:
SEE DRAWING GN1

ALL STEEL WITHIN 6'-0 OF PIERS 1 & 2 SHALL BE PAINTED IN ACCORDANCE WITH THE NOTES ON GN1.

DESCRIPTION: DIAPHRAGMS		DRAWN BY	DATE
JOB:	CENTER ST (ALT VT 122) OVER THE PASSUMPSIC RIVER	JTB	02/20
	BRIDGE NO. 2, PROJ BHO 1447(26)	CHKD BY	
	LYNDON, VT (CALEDONIA COUNTY)	LF	03/15
TENSOR 2425	CONTRACTOR: AUSTIN CONSTRUCTION	APPROV BY	
		SUPERVISOR	W. J. GATTI
PROJ NO. BHO 1447 (26)		Q.A.	
CUSTOMER: VERMONT A. O. T.			

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

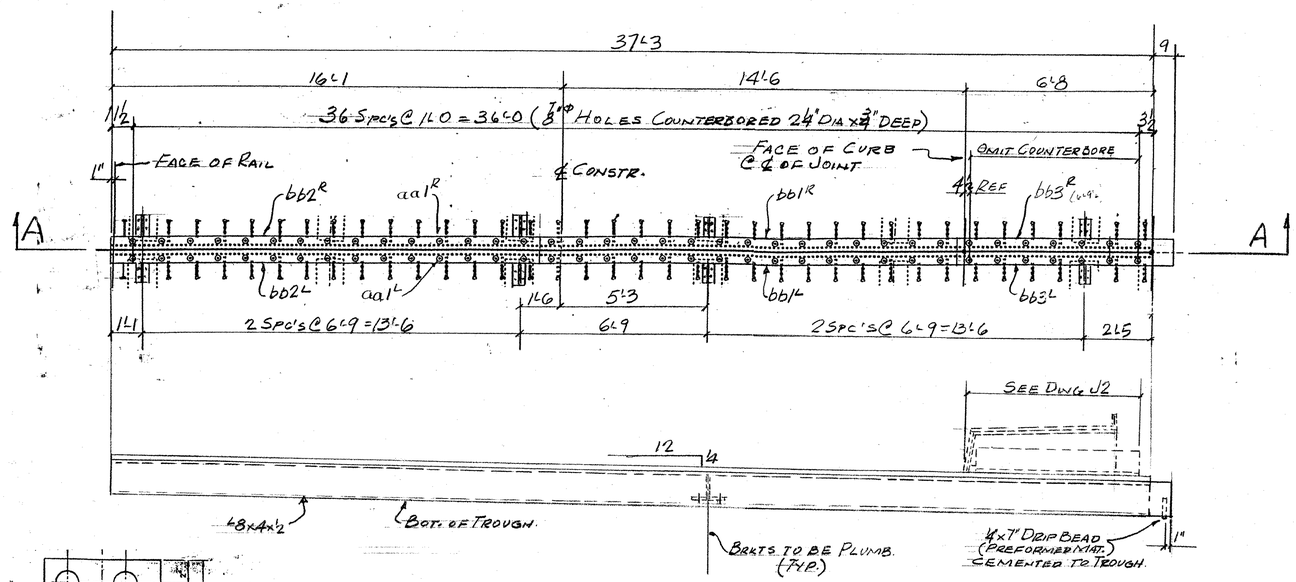
JOB NO.	DRG. NO.
227	10
	REV. △

LF Mon Mar 15 09:44:01 EST 2004 /users/jobs/2425/10 : Rev0

06755

N

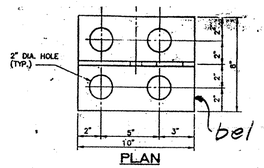
NOTE
ADJUST STUD SPACING TO CLEAR BKTS.

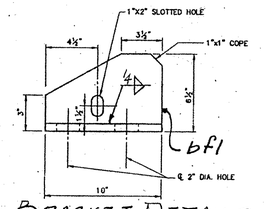


A-A

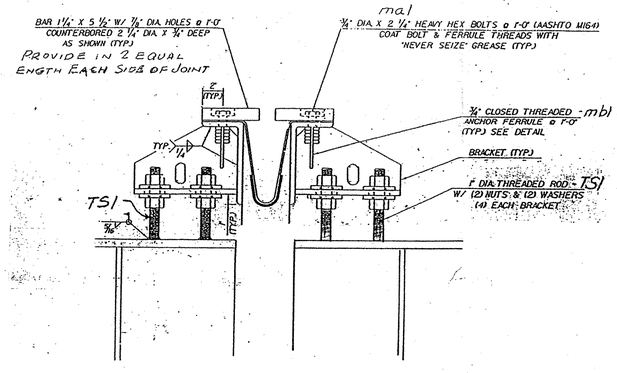
EJ1 - ONE REQ'D. (@ PIER 1)
EJ2 - ONE REQ'D. (@ PIER 2)

WORK THIS DWG. W/ DWG. J2

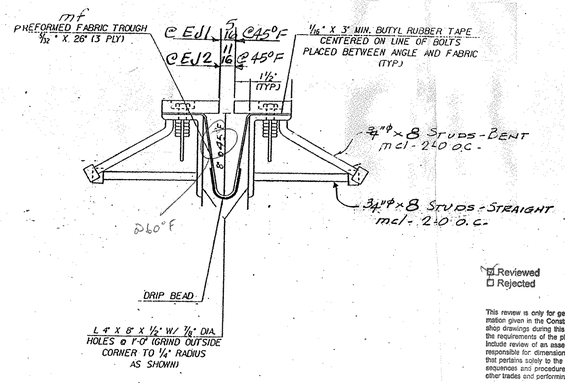




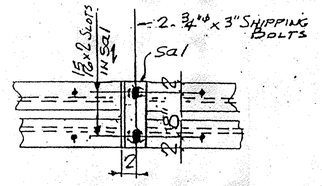
BRACKET DETAILS



TYPICAL SECTION AT BEAMS

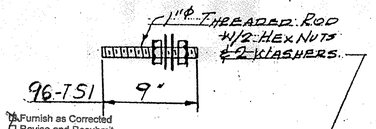


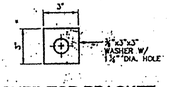
TYPICAL SECTION BETWEEN BEAMS



SHIPPING DEVICE
SPACED 5'-0" O.C. MAX. (6-REQ'D) PER JOINT

ANCHOR FERRULE





WASHER FOR BRACKET W1

☑ Reviewed ☐ Rejected
☑ Furnish as Corrected ☐ Revise and Resubmit ☐ Submit Specified Item

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for dimensions to be confirmed and correlated at the jobsite, information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction, coordination of the Work with that of all other trades and performing all work in a safe and satisfactory manner.

McFarland-Johnson, Inc.
Date 6-25-04
By Steven F. Dolan

SHOP BILL

JOB NO. 227 | DRG. NO. J1

ABM INFO PAGE	ABM INFO LINE	NO.	DESCRIPTION	FT	IN	ASSEM. MARK	SHIPPING MARK	REMARKS	WEIGHT
		1	EXP JOINT ASS'Y	38	0±		EJ1		—
		1	DO	38	0±		EJ2		—
		4	L 8x4x1/2	37	3	aa1			
		4	BAR 14x5 1/2	15	0,	bb1			
		4	DO	15	5 1/2	bb2			
		4	DO	6	9 1/2	bb3			
		24	PL 1/2 x 8		10	be1			
		24	PL 1/2 x 6		10	bf1			
		120	3/4" H.S. BOLTS		24	ma1			
		148	3/4" CLOSED THREADED ANC. FERRULES			mb1			
		148	3/4" ANC STUDS		8	mc1			
		2	PREFORMED FABRIC 12"x26"	39	0±	mf1		3 PLY PER SPEC. SECTION 707	
		4	BUTYL RUBBER TAPE 1/8 x 3	39	0±	mg1		AASHTO M-198-TYPE B	
		12	L 4x4x3/8	1	0	sa1			
		24	3/4" H.S. BOLTS		3				
		96	1" Ø THREADED RODS		9		TS1		
		192	1" Ø HEX NUTS			SHOP			
		192	BAR 3x3/8		3	W1			
SIDEWALK ASSEMBLIES									
		2	PL 1/2 x 19	5	6 1/2±	pla		SLIP NOT FINISH	
		2	PL 1/2 x 9 1/4	1	7	plb			
		2	PL 1/2 x 3	1	7	plc			
		2	PL 1/2 x 3	5	7 1/2±	pl2a		SLID NOT FINISH	
		2	PL 3/8 x 3		9 1/4	pl2b			
		2	PL 3/8 x 3		3 1/8	pl2c			
		2	PL 1/2 x 7	5	6 1/2±	pl3a			
		2	DO		8 1/2	pl3b			
		2	DO		3 1/8	pl3c			
		2	PL 1/2 x 11	5	6	pl4			
		2	DO	5	6	pl5			
		4	L 6x4x1/2	5	10	al1			
		2	L 2 1/2 x 2 1/2 x 3/8	5	6±	al2			
		18	3/4" Ø ANC STUDS		6	mh1			
		10	3/4" Ø F.H. COUNTERSINK CAP SCREW		2	mk1		ASTM F 836-93	
		34	3/4" Ø CLOSED THREADED ANC. FERRULES			mb1			
		24	3/4" H.S. BOLTS		24	ma1			
		28	DO		3	SHOP			

PAY ITEM 516.10

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	6-8-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP										
	FIELD & OFFICE										

PROJECT NO. BHO-1447(26) STATE PROJECT NO. 2
MATERIAL: AASHTO M270-Gr.36 ELECTRODES: PER PROC. HOLES: AS NOTED SHOP BOLTS: 3/4"Ø
SURFACE PREP. & PAINT: M164-GALV. TYPE I
GALV. AFTER FAB. (ASTM-A123)

DESCRIPTION: EXP. JOINTS-PIERS 1 & 2
JOB: CENTER STREET OVER PASSUMPSIC RIVER LYNDON, VT.
CUSTOMER: AUSTIN CONSTR.

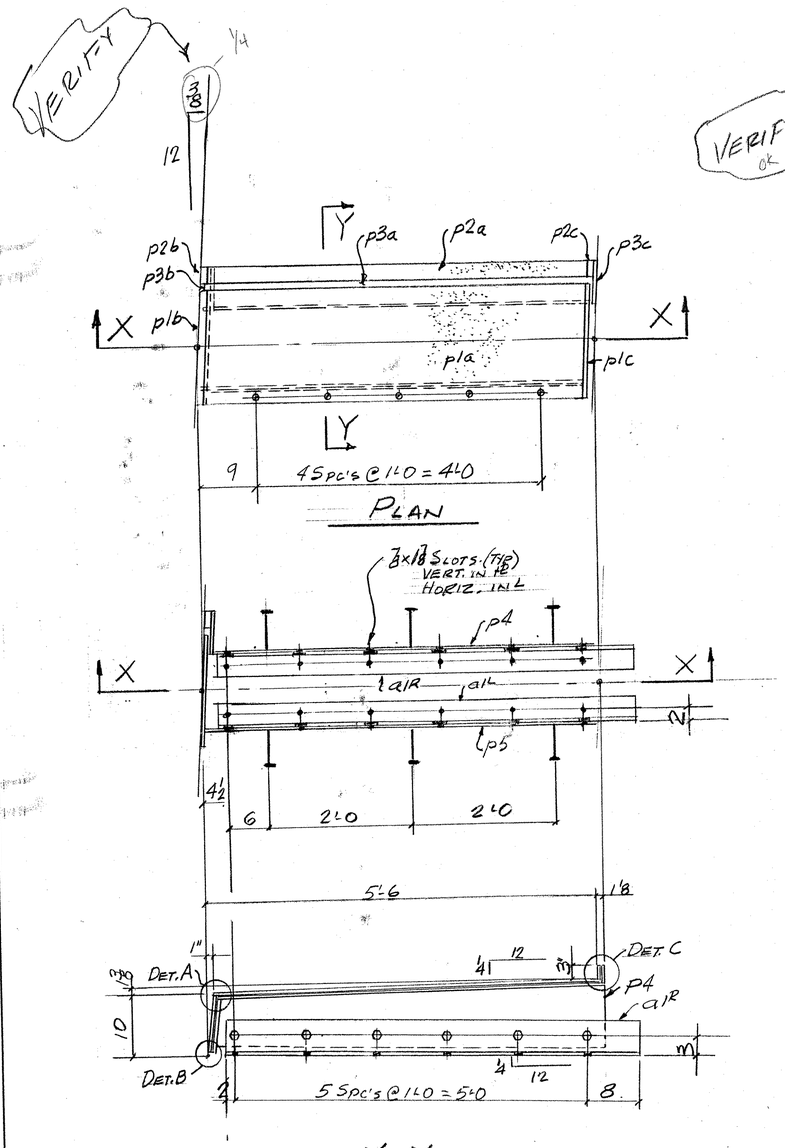
DRAWN BY: JPF — DATE: 6-04
CHKD BY: EJ
APPROV BY:
Q.A.

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

JOB NO. 227 | DRG. NO. J1 | REV. △

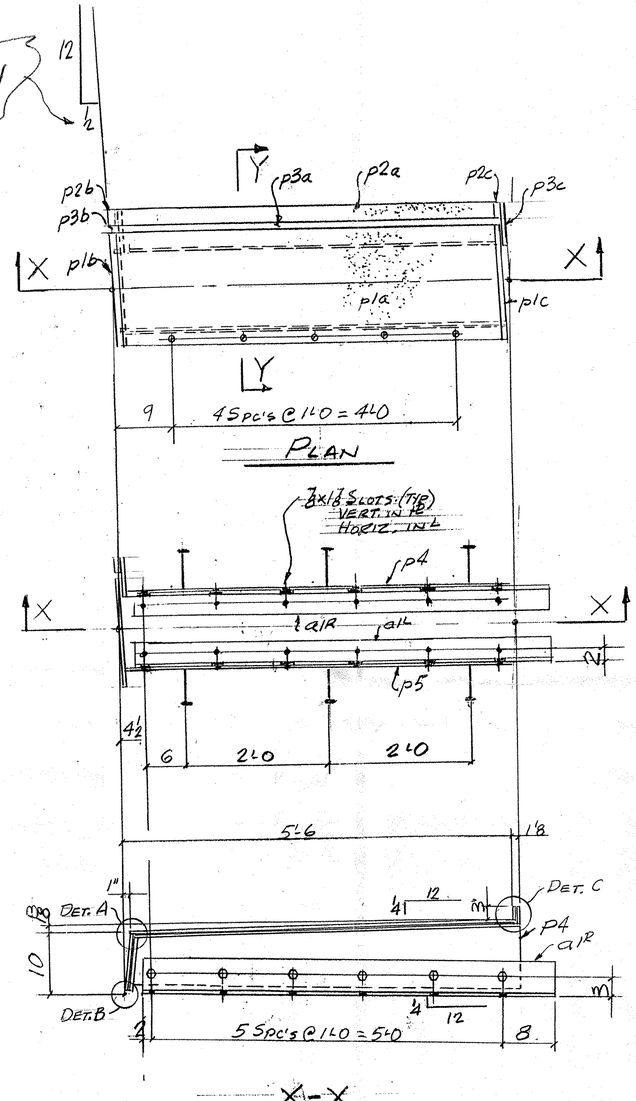
068 BI

JOB NO. 227 | DRG. NO. J2



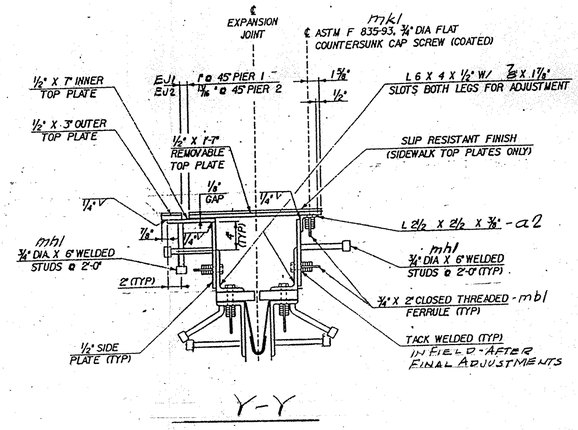
X-X

SIDEWALK ASSEMBLY
SHOP BOLT TO EJ1

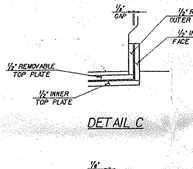


X-X

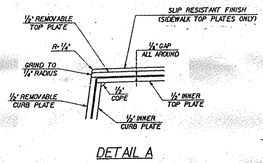
SIDEWALK ASSEMBLY
SHOP BOLT TO EJ2



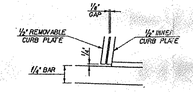
Y-Y



DETAIL C



DETAIL A



DETAIL B

WORK THIS DWG. W/ DWG. J1

REV.	REMARKS	DATE	DWN	CHK	APP	Q.A.	NO.	DIA.	LGT	TYPE	WASHER
	OUT FOR APPROVAL	6-15-04									
	OUT FOR APPROVAL										
	ISSUED TO SHOP										
	FIELD & OFFICE										

PROJECT NO. BHO-1447(26) STATE PROJECT NO. 2

MATERIAL: AASHTO M270 Gr 36 | ELECTRODES: PER PREC. | HOLES: AS NOTED | SHOP BOLTS: 3/4ø M164-GALV. TYPE I

SURFACE PREP. & PAINT:

GALV. AFTER FAB. (ASTM-A123)

DESCRIPTION: EXP. JOINTS - PIERS 1 & 2

JOB:

CENTER STREET OVER
PASSUMPSIC RIVER
LYNDON, VT.

CUSTOMER: AUSTIN CONSTR.

	DRAWN BY	DATE
	JPF	6-04
	CHKD BY	
	E.J.	
	APPROV BY	
	Q.A.	
JOB NO.	227	DRG. NO. J2
REV.		△

CASCO BAY STEEL STRUCTURES, INC.
75 SPRING HILL ROAD SACO, MAINE 04072
PHONE (207) 282-7360 FAX. (207) 282-1179

1" = 1'-0

☒ Reviewed
☐ Rejected

☒ Furnish as Corrected
☐ Revise and Resubmit
☐ Submit Specified Item

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McFarland-Johnson, Inc.

Date 6-25-04

By Steven T. Dellea

069 B5