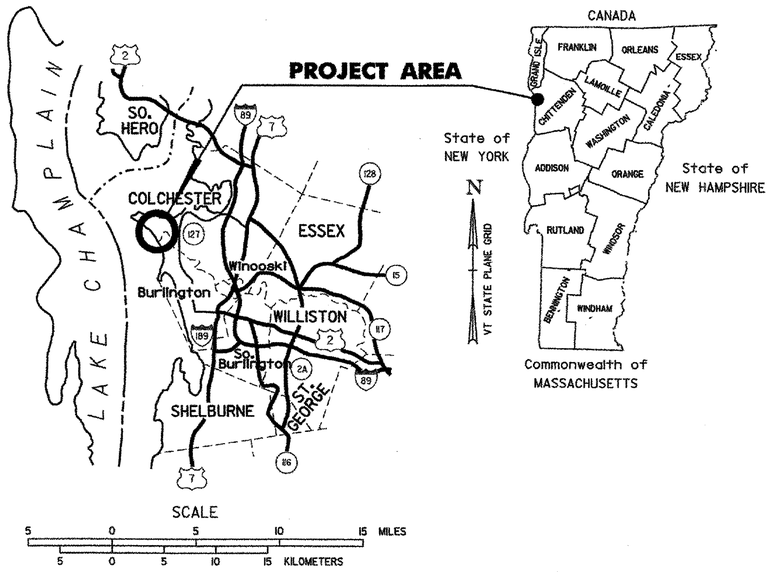
INDEX OF SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
CITY OF BURLINGTON AND TOWN OF COLCHESTER
COUNTY OF CHITTENDEN

PROJECT LOCATION

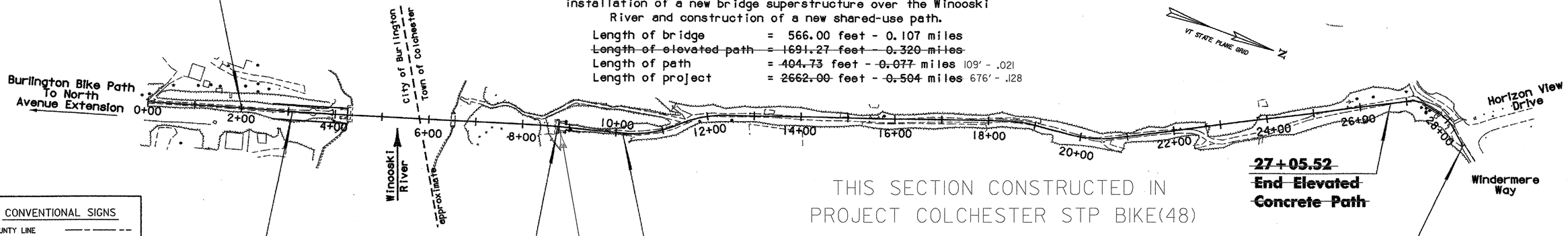
Beginning in Burlington at a point on the existing Burlington Bike Path approximately 1550 feet northerly of the intersection of the bike path and North Avenue Extension, and extending northerly approximately ~~2662~~ 676 feet to the intersection of Windermere Way and Horizon View Drive in the Town of Colchester.



PROJECT DESCRIPTION

Work to be performed under this project includes the installation of a new bridge superstructure over the Winooski River and construction of a new shared-use path.

Length of bridge = 566.00 feet - 0.107 miles
~~Length of elevated path = 1691.27 feet - 0.320 miles~~
Length of path = ~~404.73~~ feet - ~~0.077~~ miles 109' - .021
Length of project = ~~2662.00~~ feet - ~~0.504~~ miles 676' - .128



RECORD PLANS

CONTRACTOR: KUBRICKY CONST. CORP.
RESIDENT ENGINEER: JOE KNIPES
CONSTRUCTION BEGAN: FEBRUARY 12, 2003
CONSTRUCTION COMPLETE: JULY 07, 2004
RECORD PLANS BY: K. NORTH, N. GARBACIK

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

BY _____ RESIDENT ENGINEER
DATE 12-19-04

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.

CONVENTIONAL SIGNS

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
TOP OF CUT
TOE OF SLOPE

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (96)

0 100 200
SCALE IN FEET

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.

DIRECTOR OF PROJECT DEVELOPMENT
APPROVED _____ DATE 11/6/03
PROJECT MANAGER :
PROJECT NAME : **Burlington – Colchester**
PROJECT NUMBER : **STP Bike (45)**
SHEET 1 OF 87 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

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7. TIE SHEET
8-9 QUANTITY SHEETS
10-14. BLANK
15-20. R.O.W. DETAIL SHEETS
21-25. PLAN AND PROFILE SHEETS
26-28. EROSION CONTROL AND RESOURCE SHEETS
29. LANDSCAPING SHEET
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39. ~~SECTION VIEW OF ELEVATED PATH~~
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45. ~~PRESTRESS FIELD CONNECTION DETAILS~~
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49. ~~PRESTRESS DETAIL SHEETS, SPAN 15~~
50. ~~PRESTRESS DETAIL SHEETS, SPAN 23~~
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57. ~~FENCE DETAILS~~
58. ~~INTERPRETIVE SIGN SUPPORT DETAILS~~
59. ABUTMENT 1 DETAILS
60. ABUTMENT 1 FOOTING REINFORCING AND WINGWALL TYPICALS
61. ABUTMENT 2 LAYOUT AND REINFORCING
62. ABUTMENT 2 ELEVATION AND SIDE VIEW
63. ABUTMENT 3 DETAILS
64. PIER DETAILS
65. PIER SECTION VIEWS
66. ~~PATH ABUTMENT 1 LAYOUT AND REINFORCING~~
67. ~~PATH ABUTMENT 2 LAYOUT AND REINFORCING~~
68. ~~PATH WINGWALL DETAILS~~
69. REINFORCING STEEL SCHEDULE
70-87. CROSS SECTION SHEETS

C-1 CURBS, BITUMINOUS CONCRETE SIDEWALKS
GRANITE SLOPE EDGING, VERTICAL GRANITE CURB
PRECAST REINFORCED CONCRETE CURB
CAST IN PLACE CONCRETE CURB
C-2A CEMENT CONCRETE SIDEWALK, CONCRETE CURB
C-3 SIDEWALK RAMPS

E-102 CONSTRUCTION SIGN DETAILS
E-102A CONSTRUCTION SIGN DETAILS
E-106 TRAFFIC CONTROL - MISCELLANEOUS DETAILS
E-107A BREAKAWAY BARRICADE DETAILS
E-108 CONSTRUCTION ZONE LONGITUDINAL DROP OFFS
E-131 GUIDE SIGN DETAILS
E-144 REGULATORY SIGN DETAILS

E-160 FLANGED CHANNEL STEEL SIGN POST

F-2 DRIVE GATE FOR CHAIN LINK FENCE,TYPE I
DRIVE GATE FOR CHAIN LINK FENCE,TYPE I
WALK GATE FOR CHAIN LINK FENCE,TYPE I

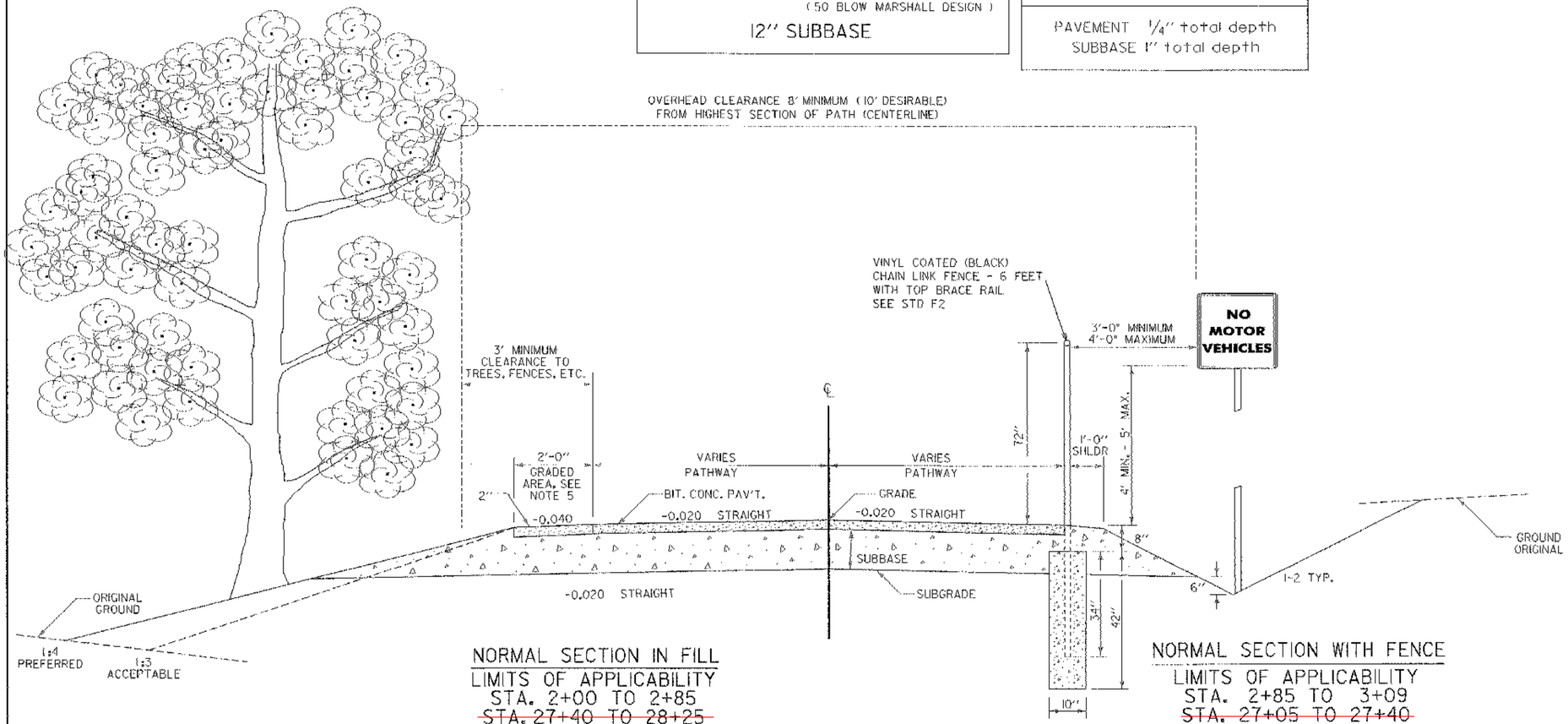
T-1 TEMPORARY EROSION CONTROL DETAILS
T-2 TEMPORARY EROSION CONTROL DETAILS

WORK DETAILED ON PAGES 38 TO 58 AND PAGES 66,67,68
WAS COMPLETED IN PROJECT COLCHESTER STP BIKE(48)

NOTE: PAGE 61 FROM COLCHESTER STP BIKE(48)
IS INCLUDED IN THIS PROJECT AS WELL.

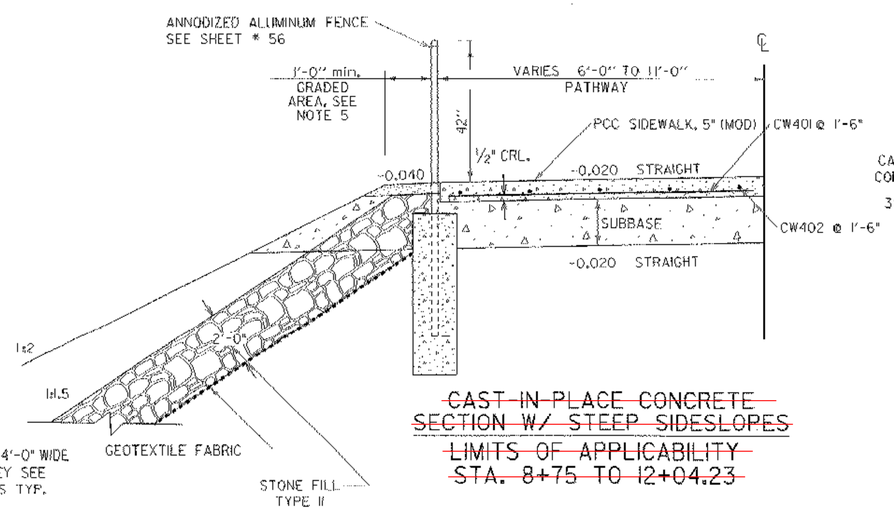
PROJECT NAME:	**Burlington - Colchester**
PROJECT NUMBER:	**STP BIKE (45)**
FILE NAME:	PLOT DATE: 11/15/2002
PROJECT LEADER:	DRAWN BY: M.E.M.
DESIGNED BY: M.E.M.	CHECKED BY: M.E.M.
INDEX OF SHEETS #1	SHEET 2 OF 87

2" BIT. CONC. PAV'T. TYPE III (50 BLOW MARSHALL DESIGN) 12" SUBBASE	THICKNESS TOLERANCES
	PAVEMENT 1/4" total depth SUBBASE 1" total depth

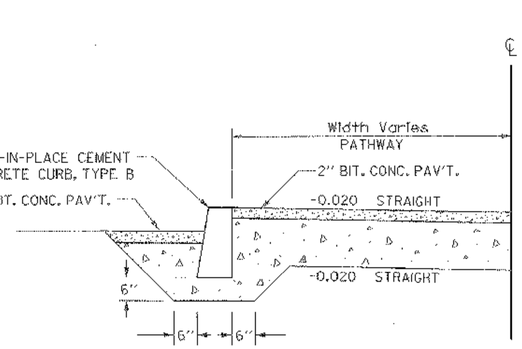


NORMAL SECTION IN FILL
LIMITS OF APPLICABILITY
STA. 2+00 TO 2+85
~~STA. 27+40 TO 28+25~~

NORMAL SECTION WITH FENCE
LIMITS OF APPLICABILITY
STA. 2+85 TO 3+09
~~STA. 27+05 TO 27+40~~



~~CAST-IN-PLACE CONCRETE SECTION W/ STEEP SIDESLOPES~~
~~LIMITS OF APPLICABILITY~~
~~STA. 8+75 TO 12+04.23~~



~~NORMAL SECTION WITH CURB~~
~~LIMITS OF APPLICABILITY~~
~~STA. 28+25 TO 28+62~~

GENERAL NOTES

1.) ALL DESIGN SHALL BE IN ACCORDANCE WITH THE VAOT "GUIDE FOR DEVELOPMENT OF BICYCLE FACILITIES", SEPT. 1994, OR LATEST REVISION.

2.) GEOTEXTILE FABRIC MAY BE USED BELOW THE SUBBASE MATERIAL WHEN CONDITIONS WARRANT.

3.) ALL SHARED USE PATHS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). REFER TO THE AMERICANS WITH DISABILITIES ACT ACCESSABILITY GUIDELINES (ADAAG) FOR SPECIFIC DETAILS.

4.) ANY TREE ROOTS ENCOUNTERED WITHIN THE EXCAVATION LIMITS SHALL BE SAWCUT AND REMOVED. NO DIGGING UP OF STUMPS OR ROOTS SHALL BE ALLOWED. PAYMENT WILL BE SUBSIDIARY TO COMMON EXCAVATION.

5.) THE GRADED AREA SHALL BE EITHER OF THE TWO FOLLOWING CONDITIONS:

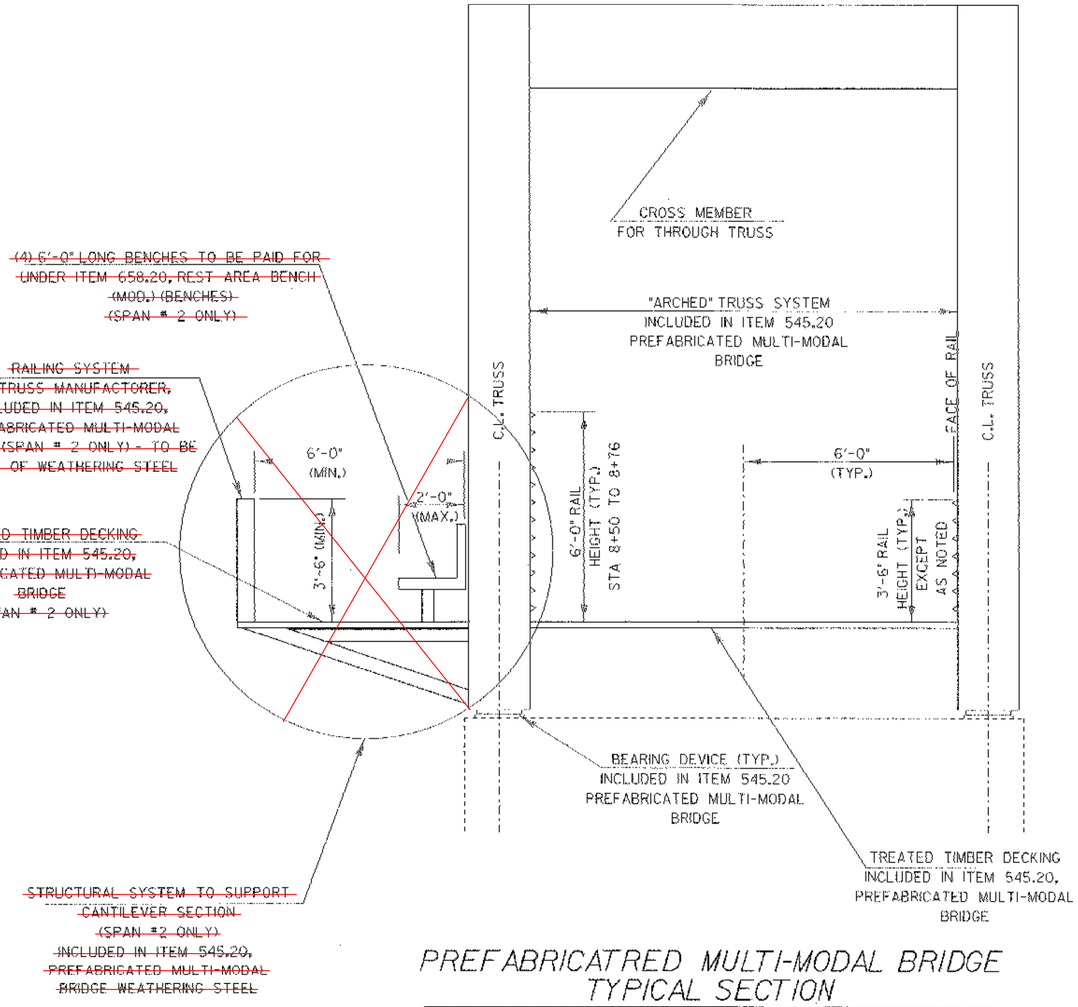
a. WHEN THERE IS A FENCE ADJACENT TO THE PATH, THE SHOULDER AREA SHALL BE PAVED TO THE SAME DEPTH AS THE PATH.

b. IN ALL OTHER AREAS, THE SHOULDER SHALL BE 2" FINE GRADED AGGREGATE SURFACE WITH A MAXIMUM STONE GRADATION OF 3/8".

SHARED USE PATH TYPICAL

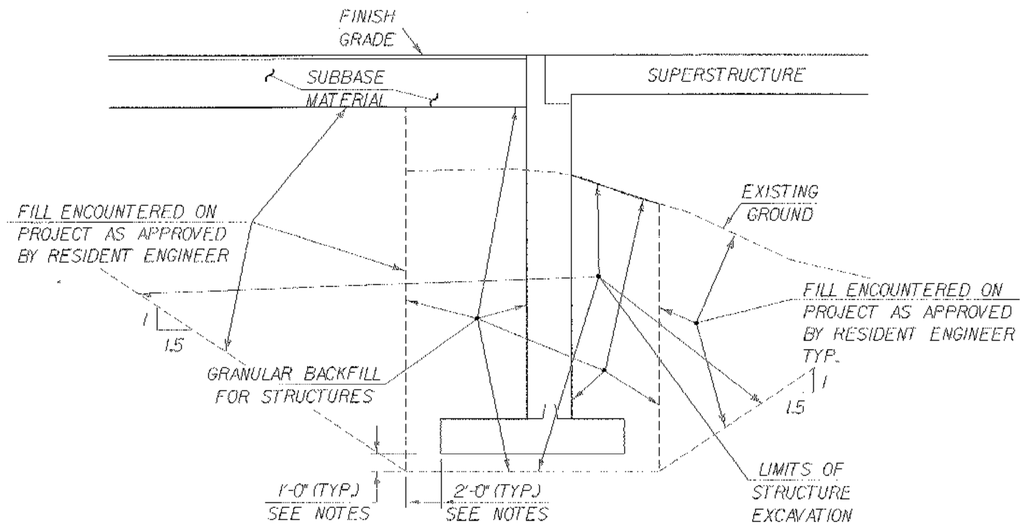
PROJECT NAME:	BURLINGTON - COLCHESTER
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132typ.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY: M.E.M.
sf132typ.i	SHEET 3 OF 87



PREFABRICATRED MULTI-MODAL BRIDGE TYPICAL SECTION

(NOT TO SCALE)



TYPICAL ABUTMENT SECTION

(NOT TO SCALE)

NOTES

1. THE PAY LIMITS OF STRUCTURE EXCAVATION SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING, EXTENDING UPWARDS ON A 1 ON 1.5 SLOPE FROM FOOTING ELEVATION (OR 1 FOOT BELOW - SEE NOTE 3) UP TO EXISTING GROUND.
2. THE PAY LIMITS OF GRANULAR BACKFILL FOR STRUCTURES SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING, FROM FOOTING ELEVATION (OR 1 FOOT BELOW - SEE NOTE 3) UP TO BOTTOM OF SUBBASE.
3. ONE FOOT UNDERCUT MAY BE NECESSARY, AS DETERMINED BY THE RESIDENT ENGINEER. NOT INCLUDED IN PLAN QUANTITIES.
4. ACTUAL EXCAVATION LIMITS TO BE DETERMINED BY THE CONTRACTOR.
5. IF AN EXCAVATION IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED EXCAVATION PAY LIMITS, FILL OUTSIDE THE LIMITS WILL BE FILL ENCOUNTERED ON PROJECT AND IT'S PLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE. EXCAVATION OUTSIDE THE LIMITS, WHICH IS MADE FOR THE CONTRACTOR'S CONVENIENCE, WILL ALSO BE AT THE CONTRACTOR'S EXPENSE.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BURLINGTON-COLCH.	Bridge No.
Highway No. BIKE PATH	Log Sta. / Surv. Sta.

ABUTMENT EARTHWORK DETAILS AND TRUSS TYPICAL SECTION

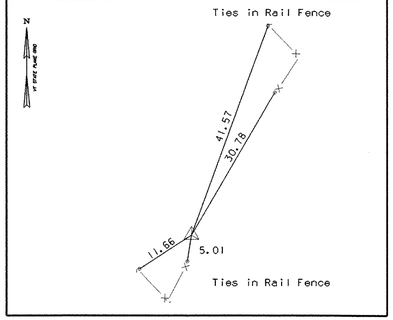
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
I.G.:C:\InRoads\Villages\net\Off132\Structures\sf132sub.dgn sf132typ1	
Bridge Sheet No.	Sheet 4 of 87

PLOTTED 6-NOV-2002

GPS CONTROL POINTS

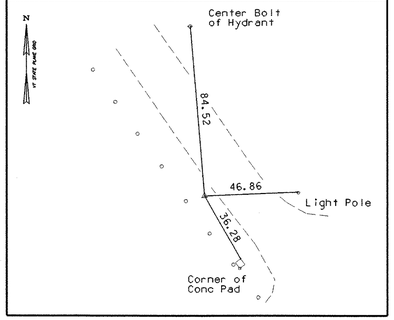
_Colchester_Temp_1_

N = 743823.785
E = 1437672.521
Z = 103.44



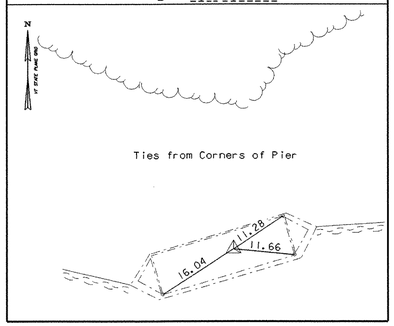
_Colchester_Temp_2_

N = 743321.217
E = 1437988.321
Z = 102.13



_Abut__(Trav_Pt_14)

N = 741243.1959
E = 1438758.937
Z = 104.46

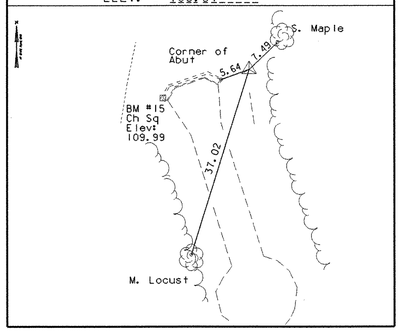


*TO ALLOW THE STATE PLANE COORDINATES TO FIT THE AGENCY DESIGN PLANE, SUBTRACT 700,000 FROM THE NORTHING AND SUBTRACT 1,400,000 FROM THE EASTING.
* NO DESCRIPTIONS WERE PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT FOR THESE MARKS AS THEY ARE CONSIDERED TEMPORARY

TRAVERSE TIES

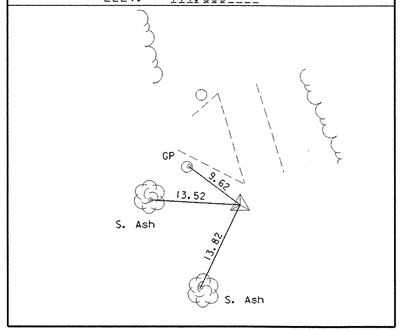
_____Trav_Pt_15____

NORTH = 40998.945
EAST = 38842.019
ELEV. = 108.81



_____Trav_Pt_16____

NORTH = 40613.930
EAST = 38940.097
ELEV. = 111.699



_____

NORTH = _____
EAST = _____
ELEV. = _____

_____

NORTH = _____
EAST = _____
ELEV. = _____

_____

* MAIN TRAVERSE COMPLETED 8/15/01 by L. Orvis P.C., J. Hulett & T. Wilson

ALIGNMENT TIES

_____

NORTH = _____
EAST = _____

_____

NORTH = _____
EAST = _____

_____

NORTH = _____
EAST = _____

_____

NORTH = _____
EAST = _____

_____

NORTH = _____
EAST = _____

DATUM

VERTICAL __NAVD_88_
HORIZONTAL NAD_83_(96)
ADJUSTMENT ___none___

PROJECT NAME: Burlington__Colchester__
PROJECT NUMBER: STP_BIKE_(45)_____

FILE NAME: 01f132/survey/xf132ti.dgn_
PROJECT LEADER: C.S.Keller_____
DESIGNED BY: _____
sf132ti.i_____
PLOT DATE: 15-NOV-2002
DRAWN BY: R.Bullock___
CHECKED BY: _____
SHEET 7____ OF 87_____

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES

ABUT.1	ABUT. 2	PIER 1	ABUT. 3	PATH ABUT 1	PATH ABUT 2						FULL E & C	EROSION CONTROL	PREFAB BRIDGE	PATH	RAISED PATH
														0.35	
														204	
83				48	72								83		120
61				50	61								61		111
														300	
												15			
														2.74	
														34	
21	65	82	11	9	11								179		20
															1
															48 55 3000
															48 55 3000
															3
2640	4140	2310	836	1364	1330								9926	2110	2694
	33	33	15										81		
															42
															2
															177
5	5	5	5										20		
														25	
															3450
															1
														1	
														1	
				10									10		
															708
													1		
													1		
													1		
														2	
														6	
														10	
														5	
															20
												30			
														25	
														1	
														240	
														1	
														118	

TOTALS

ROUND	GRAND TOTAL	FINAL
	0.35	
	204	
	203	
	172	
	300	
	15	
	3	
	34	
	199	
	1	
	~~4855~~ ~~3000~~	
	~~4855~~ ~~3000~~	
	3	
	14730	
	81	
	42	
	2	
	177	
	20	
	25	
	3450	
	1	
	1	
	1	
	10	
	708	
	1	
	1	
	1	
	2	
	6	
	10	
	5	
	20	
	30	
	25	
	1	
	240	
	1	
	118	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER
ACRE	THINNING AND TRIMMING (MOD)	201.30
CY	COMMON EXCAVATION	203.15
CY	STRUCTURE EXCAVATION	204.25
CY	GRANULAR BACKFILL FOR STRUCTURES	204.30
CY	SUBBASE OF GRAVEL	301.15
CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35
TON	AGGREGATE SHOULDERS (MOD)	402.12
TON	MEDIUM DUTY BIT. CONC. PAVEMENT	406.27
CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34
LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.10
LF	CAST-IN-PLACE CONCRETE PILING (MOD) (INSTALLATION OF PRECAST PILING)	505.25
LF	CAST-IN-PLACE CONCRETE PILING (MOD) (PRECAST PILING)	505.25
EACH	PILE LOADING TESTS (DYNAMIC) (MOD) 2	505.45
LB	REINFORCING STEEL	507.15
LF	DRILLING AND GROUTING DOWELS	507.16
EACH	PRESTRESSED CONCRETE MEMBER (MOD) (PILE CAPS) (12')	510.20
EACH	PRESTRESSED CONCRETE MEMBER (MOD) (PILE CAPS) (15')	510.20
EACH	PRESTRESSED CONCRETE MEMBER (MOD) (3' SLAB)	510.20
GAL	WATER REPELLENT	514.10
LF	REMOVAL OF EXISTING RAILING (BLACK METAL PIPE STA 8+75 TO 8+90)	525.10
LF	METAL HAND RAILING (MOD) (FASCIA MOUNTED BRIDGE)	525.15
EACH	REMOVAL OF STRUCTURE (MOD) (15+50 LT)	529.15
EACH	REMOVAL OF STRUCTURE (8+90 RT)(TIMBER WALL)	529.15
EACH	PARTIAL REMOVAL OF STRUCTURE (3+96)	529.20
CY	REMOVAL OF CONCRETE OR MASONRY (STA 8+75)	529.25
EACH	BEARING DEVICE ASSEMBLY	531.10
LS	PREFABRICATED MULTI-MODAL BRIDGE (BRIDGE 1) 113'-0" LONG	545.20
LS	PREFABRICATED MULTI-MODAL BRIDGE (BRIDGE 2) 221'-6" LONG	545.20
LS	PREFABRICATED MULTI-MODAL BRIDGE (BRIDGE 3) 221'-6" LONG	545.20
HR	BULLDOZER RENTAL, TYPE I	608.10
HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25
HR	TRUCK RENTAL	608.37
HR	LOADER RENTAL, TYPE I	608.40
CY	STONE FILL, TYPE I	613.10
CY	STONE FILL, TYPE II	613.11
LF	CAST-IN-PLACE CEMENT CONCRETE CURB, TYPE B	616.28
LF	REMOVING AND RESETTING CURB (MOD) (FOSSIL ROCK)	616.40
SY	PORTLAND CEMENT CONC. SIDEWALK, 5 INCH (MOD)	618.10
EACH	WOOD MARKER POSTS	619.15
LF	CHAIN LINK FENCE, 6 FEET (MOD) (TOP POLE INCLUDED)	620.12

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

1 Addendum One, Pile Quantity, 11-26-02

2 Addendum Two, Modify Item, 12-4-02

PROJECT NAME: **BURLINGTON-COLCHESTER**
PROJECT NUMBER: **STP BIKE(45)**

FILE NAME: **sf132quant.xls**
PROJECT LEADER: **C. KELLER**
DESIGNED BY: **J. GEORGE**
QUANTITY SHEET #1

PLOT DATE: **11/14/2002**
DRAWN BY: **J. GEORGE**
CHECKED BY: **M.E.M.**
SHEET **8** OF **87**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES

ABUT.1	ABUT. 2	PIER 1	ABUT. 3	PATH ABUT 1	PATH ABUT. 2	FULL E & C	EROSION CONTROL	PREFAB BRIDGE	PATH	RAISED PATH
									275	
									6	
									4	
									30	
									80	
										4958
						1				
0.16	0.17	0.18	0.17	0.16	0.16	1				
						1				
						1				
									1	
									114	
									6	
							55			
							260			
							50			
							50			
							0.10			
							20			
									9	
									8	
									8	
									9	
						4				2
									4	
									7	
										21
									12	
									60	
									2	

TOTALS

ROUND	GRAND TOTAL	FINAL
	275	
	6	
	4	
	30	
	80	
	4958	
	1	
	1	
	1	
	1	
	1	
	114	
	6	
	55	
	260	
	50	
	50	
	0.10	
	20	
	9	
	8	
	8	
	9	
	6	
	4	
	7	
	21	
	12	
	60	
	2	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER
LF	CHAIN LINK FENCE, 6 FEET (MOD.) (ANNODIZED ALUMINUM)	620.12
LF	GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.)(ANODIZED ALUMINUM)	620.16
EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET	620.21
LF	REMOVING AND RESETTING FENCE (27+20 TO 27+50 LEFT)	620.50
LF	REMOVAL OF EXISTING FENCE (MOD) (22+65, 23+85, & 28+25)	620.55
LF	SNOW FENCE	620.70
LS	FIELD OFFICE-ENGINEERS	631.10
LS	TESTING EQUIPMENT - CONCRETE	631.16
LS	TESTING EQUIPMENT - BITUMINOUS	631.17
LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25
LS	MOBILIZATION	635.10
LF	4" YELLOW LINE	646.21
EA	LETTER OR SYMBOL	646.30
SY	GEOTEXTILE UNDER STONE FILL	649.31
SY	GEOTEXTILE FOR SILT FENCE	649.51
LB	SEED	651.15
LB	FERTILIZER	651.18
TON	HAY MULCH	651.25
CY	TOPSOIL	651.35
EACH	EVERGREEN TREES (Thuga occidentalis) (Northern White Cedar) (6'-7') (B & B)	656.20
EACH	DECIDUOUS SHRUBS (Cornus amomom) (Silky Dogwood) (4'-5') (5 Gal. Cont.)	656.35
EACH	DECIDUOUS SHRUBS (Cornus stoloifera) (Red Stemmed Dogwood) (4'-5') (5 Gal. Cont.)	656.35
EACH	DECIDUOUS SHRUBS (Salix discolor)(Discolor Willow)(4'-5')(5 Gal. Cont)	656.35
EACH	REST AREA BENCH	658.20
EACH	REST AREA BENCH (MOD)(BIKE RACK)	658.20
SF	TRAFFIC SIGNS, TYPE A	675.20
LB	TUBULAR ALUMINUM SIGN POSTS (MOD)	675.32
EACH	REMOVING SIGNS	675.50
LF	FLANGED CHANNEL SIGN POST	675.301
EACH	RELOCATE INFORMATION PLAZA, TYPE A (MOD)	680.40

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: **BURLINGTON-COLCHESTER**
PROJECT NUMBER: **STP BIKE(45)**

FILE NAME: **sf132quant.xls**
PROJECT LEADER: **C. KELLER**
DESIGNED BY: **J. GEORGE**
QUANTITY SHEET #2

PLOT DATE: **11/14/2002**
DRAWN BY: **J. GEORGE**
CHECKED BY: **M.E.M.**
SHEET **9** OF **87**

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	WINOOSKI VALLEY PARK DISTRICT	5	3+53 RT.				INSTALL (T)	QCD	2/3/2005	BURLINGTON	904		SIGN
			2+90 RT.				RESET (T)						KIOSK
			4+10 RT.	4+36 CL.			ALL R.T. & I.						ABUTMENT
1B		5-9	6+47 RT.	6+56 LT.			ALL R.T.& I.	QCD	2/3/2005	COLCHESTER	515	279-	PIER
			6+47 RT.	27+07 LT.			EASEMENT (P) 0.77A±					281	33,370 S.F.±
													TRANSPORTATION PATH
			6+47 RT.	19+77 RT.			CONST. (T) 0.27A±						11,910 S.F.±
													INCLUDES EROSION CONTROL
													& CONSTRUCTION ACCESS
			6+47 LT.	10+42 LT.			CONST. (T) 0.20A±						8,650 S.F.±
													INCLUDES EROSION CONTROL
													& CONSTRUCTION ACCESS
			7+00 LT.				REMOVE (T)						KIOSK, SEE GENERAL NOTES
			7+17 LT.				REMOVE (T)						SIGN
			7+59 LT.				REMOVE (T)						SIGN
			8+46 LT.				REMOVE (T)						SIGN
			8+60 LT.	11+54 LT.			ACCESS (T) 0.10A±						4,370 S.F.±
													INCLUDES EROSION CONTROL
			8+69 RT.	8+93 RT.			ALL R.T. & I.						ABUTMENT
			8+80 LT.				REMOVE (T)						SIGN
			8+92 RT.	10+18 RT.			SLOPE (P) 710 S.F.±						
			8+97 LT.	10+28 LT.			SLOPE (P) 875 S.F.±						
			9+10 LT.				REMOVE & RESET (T)						FOSSIL ROCK
													SEE GENERAL NOTES
			10+10 RT.	10+15 RT.			INSTALL & MAINT. (P)						ABUTMENT #1
			10+11 LT.	10+14 LT.			INSTALL & MAINT. (P)						ABUTMENT #1
			10+38 RT.				REMOVE (T)						SIGN
			11+53 LT.				REMOVE (T)						SIGN
			12+21 RT.				REMOVE (T)						SIGN
			15+46 LT.	15+68 LT.			REMOVE (T)						RAISED WOODEN LOOKOUT
			15+48 LT.	15+79 LT.			CONST. (T) 135 S.F.±						INCLUDES EROSION CONTROL
			22+68 CL.	22+72 LT.			REMOVE (T)						BOLLARD FENCE
			23+79 LT.	23+88 LT.			REMOVE (T)						BOLLARD FENCE
			26+56 LT.	27+14 LT.			CONST. (T) 320 S.F.±						INCLUDES EROSION CONTROL
			26+65 LT.	26+71 LT.			INSTALL & MAINT. (P)						ABUTMENT #2
			26+68 LT.	27+13 LT.			SLOPE (P) 120 S.F.±						

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
		ELECTRONIC IPARMS TO STRUCTURES	10-15-02		

jblanchard
M:\Archives\01fl32\RightOfWay\rfl32d.dgn
21-AUG-2007

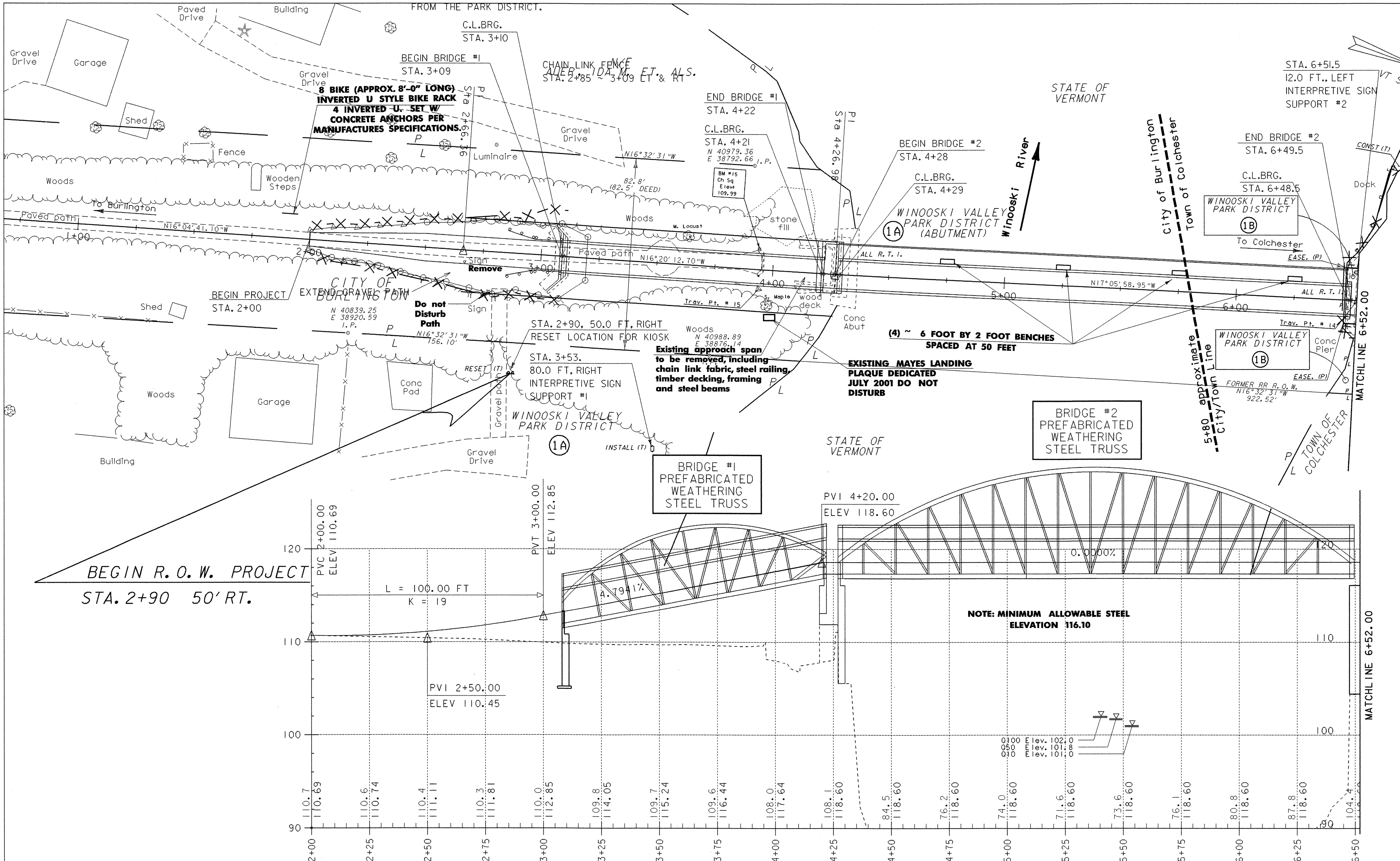
DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
(P) PERMANENT EASEMENT
(T) TEMPORARY EASEMENT

LEGEND
C&T (P) CLEARING & TRIMMING
CZ (P) CLEAR ZONE
CONST.(T) CONSTRUCTION EASEMENT
SR SR SLOPE RIGHTS
PROPERTY LINE
TOP OF CUT
TOE OF SLOPE
UE (P) PERMANENT UTILITY EASEMENT

APPROVED: ROGER P. DUMAS DATE: 10-01-02
CHIEF, PLANS & TITLES

R. O. W. PLANS
BURLINGTON-COLCHESTER
STP BIKE (45)
R. O. W. SHEET 4 OF 9 SHEETS
SHEET 15 OF 87

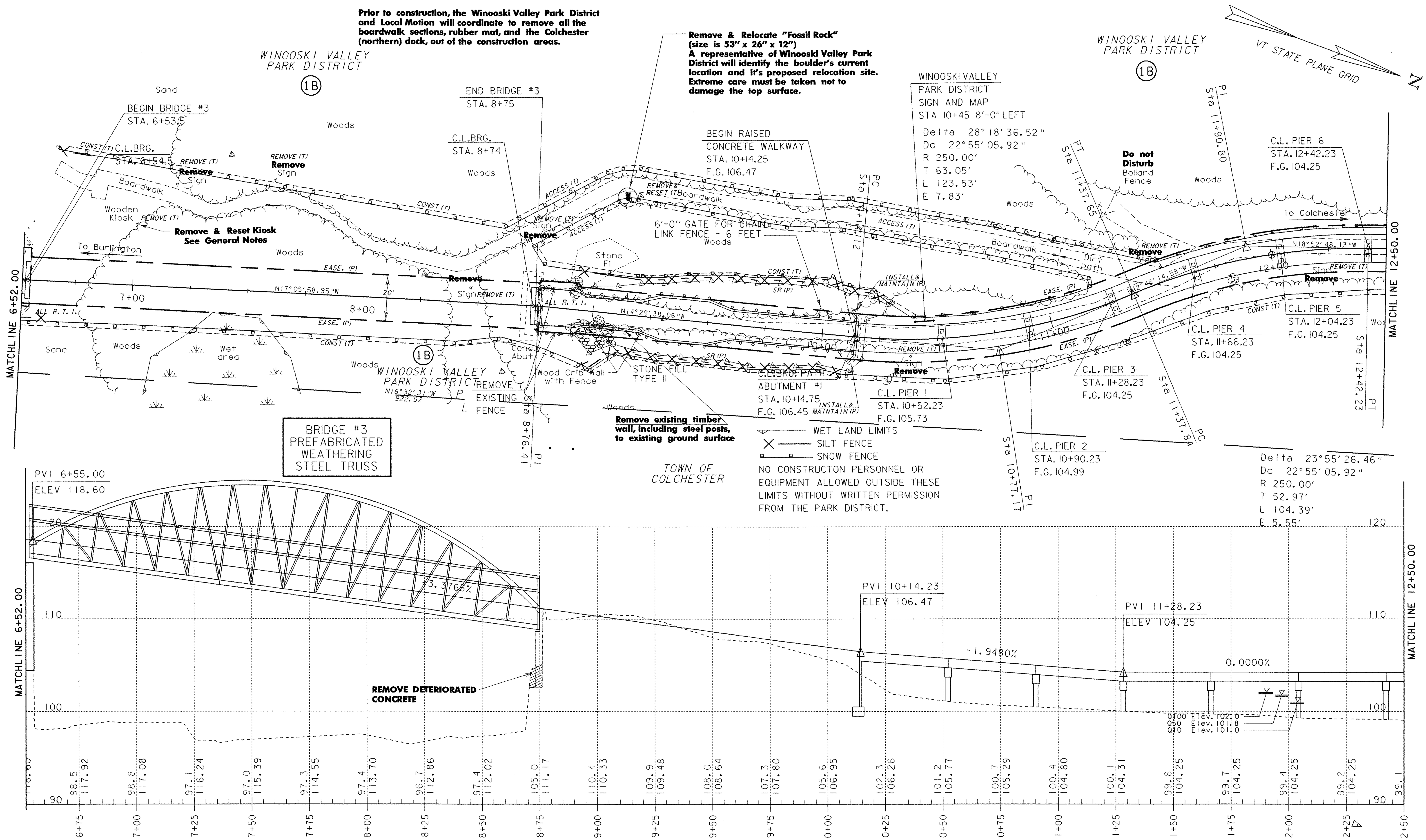


LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE CITY OF BURLINGTON AND TOWN OF COLCHESTER'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

FOR R.O.W. USE ONLY

0 20 40
SCALE IN FEET

PROJECT NAME: Burlington - Colchester	
PROJECT NUMBER: STP Bike(45)	
FILE NAME: \str5\01f132\sf132bdr.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
R.O.W. SHEET 5 OF 9 SHEETS	SHEET 16 OF 87



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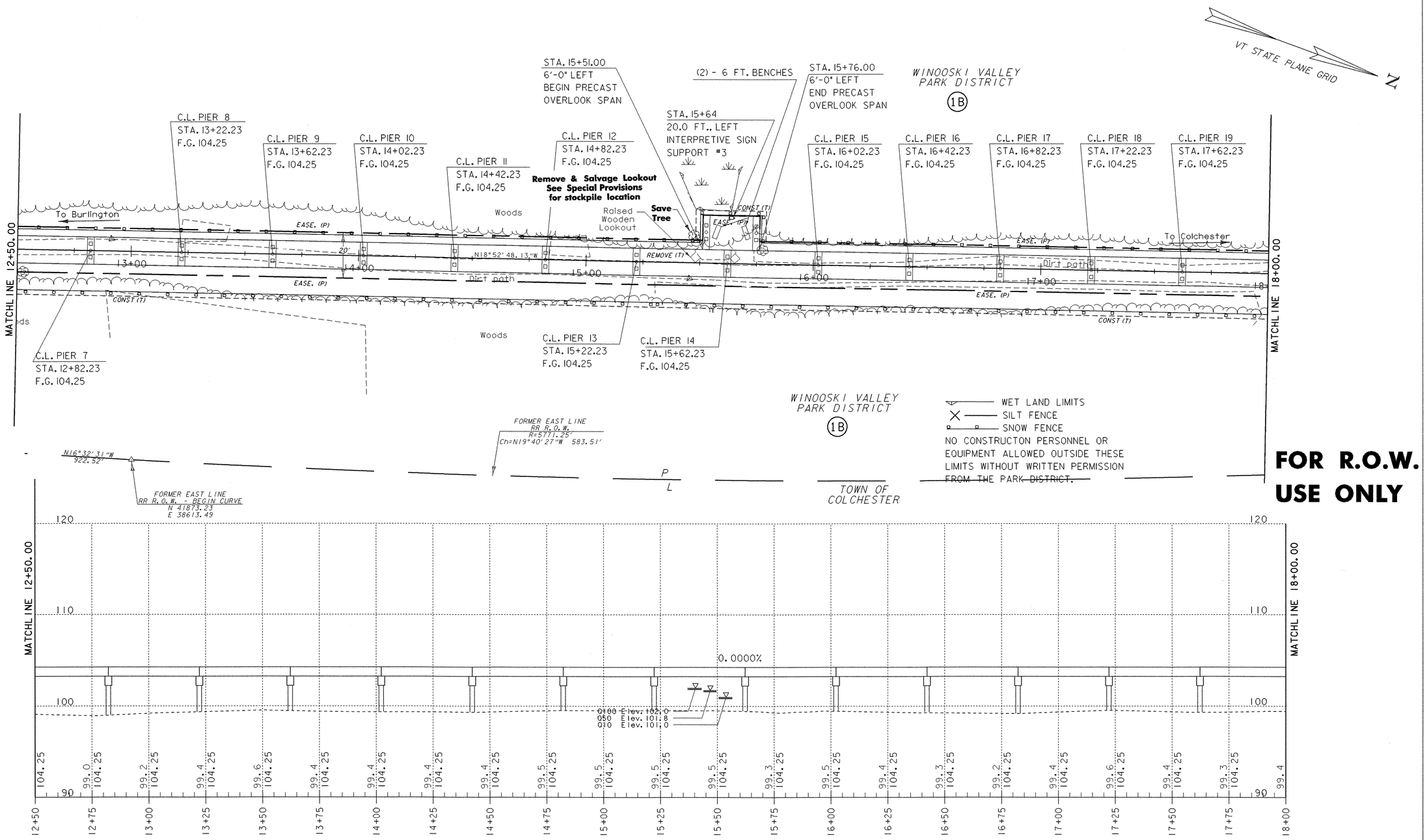
R. O. W. SHEET 6 OF 9 SHEETS	SHEET 17 OF 87



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PROJECT LEADER: C. Keller
DESIGNED BY: M. EVans-Mongeon
PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:

R.O.W. SHEET 7 OF 9 SHEETS

WET LAND LIMITS
SILT FENCE
SNOW FENCE

NO CONSTRUCTON PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

VT STATE PLANE GRID

N

Existing wooden "Bollard Fence" to be removed and stockpiled. It will be paid for as Removal of Fence.

MATCH LINE 18+00.00

C.L. PIER 20
STA. 18+02.23
F.G. 104.25

C.L. PIER 21
STA. 18+37.54
F.G. 104.25

C.L. PIER 22
STA. 18+75.54
F.G. 104.25

C.L. PIER 23
STA. 19+13.54
F.G. 104.25

C.L. PIER 24
STA. 19+53.54
F.G. 104.25

C.L. PIER 25
STA. 19+91.54
F.G. 104.25

C.L. PIER 26
STA. 20+29.54
F.G. 104.25

C.L. PIER 27
STA. 20+67.54
F.G. 104.25

C.L. PIER 28
STA. 21+05.54
F.G. 104.25

C.L. PIER 29
STA. 21+45.54
F.G. 104.25

C.L. PIER 30
STA. 21+85.54
F.G. 104.25

C.L. PIER 31
STA. 22+25.54
F.G. 104.25

C.L. PIER 32
STA. 22+65.54
F.G. 104.25

C.L. PIER 33
STA. 23+05.54
F.G. 104.25

C.L. PIER 34
STA. 23+45.54
F.G. 104.25

MATCH LINE 23+50.00

To Burlington

To Colchester

Woods

Woods

N18°52'48.13"W

N5°18'54.11"W

N27°05'L 80"W

EASE. (P)

EASE. (P)

EASE. (P)

20'

CONST (T)

Dirt path

Boardwalk

Boardwalk

Dirt path

REMOVE (T) **Remove** Bollard Fence

Sign **Remove**

Pl Sta 18+97.24

PC Sta 19+79.90

PT Sta 20+74.89

Pl Sta 20+27.97

Pl Sta 18+96.70

PC Sta 18+37.51

Delta 21°46'17.69"
Dc 22°55'05.92"
R 250.00'
T 48.08'
L 95.00'
E 4.58'

Delta 13°33'54.02"
Dc 22°55'05.92"
R 250.00'
T 29.73'
L 59.19'
E 1.76'

WINOOSKI VALLEY PARK DISTRICT
1B

WINOOSKI VALLEY PARK DISTRICT
1B

TOWN OF COLCHESTER

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPT. OF FISH & WILDLIFE

CALC. POINT
N 42406.84
E 38378.95

FORMER RR CENTERLINE
R=5730'
Ch=N26°43'17"W 828.63'

S67°25'36"W
41.25'

FORMER EAST LINE
RR R.O.W.
R=5771.25'
Ch=N19°40'27"W 583.51'

CALC. POINT
N 42422.67
E 38417.04

P L

P L

P L

P L

18+00 18+25 18+50 18+75 19+00 19+25 19+50 19+75 20+00 20+25 20+50 20+75 21+00 21+25 21+50 21+75 22+00 22+25 22+50 22+75 23+00 23+25 23+50

104.25 99.2 104.25 99.5 104.25 99.8 104.25 100.0 104.25 100.1 104.25 100.5 104.25 100.5 104.25 100.5 104.25 100.6 104.25 100.1 104.25 99.6 104.25 99.4 104.25 99.4 104.25 99.6 104.25 99.5 104.25 99.4 104.25 99.1 104.25 99.1 104.25 98.9 104.25 98.7 104.25 98.6 104.25 98.5

120 110 100 90

0.0000%

Q100 Elev. 102.9
Q50 Elev. 101.8
Q10 Elev. 101.0

FOR R.O.W. USE ONLY

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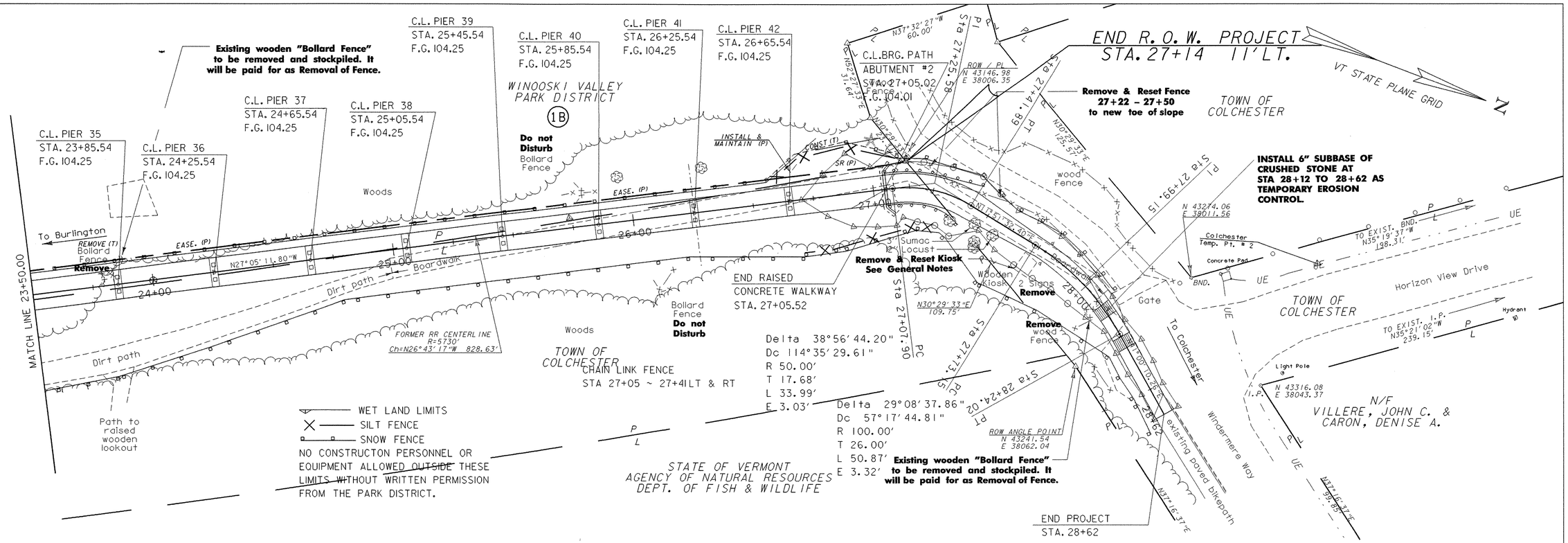
0 20 40
SCALE IN FEET

PROJECT NAME: Burlington - Colchester
PROJECT NUMBER: STP Bike(45)

FILE NAME: \str5\01f132\sf132bdr.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: M. Evans-Mongeon
R. O. W. SHEET 8 OF 9 SHEETS

PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:

SHEET 19 OF 87



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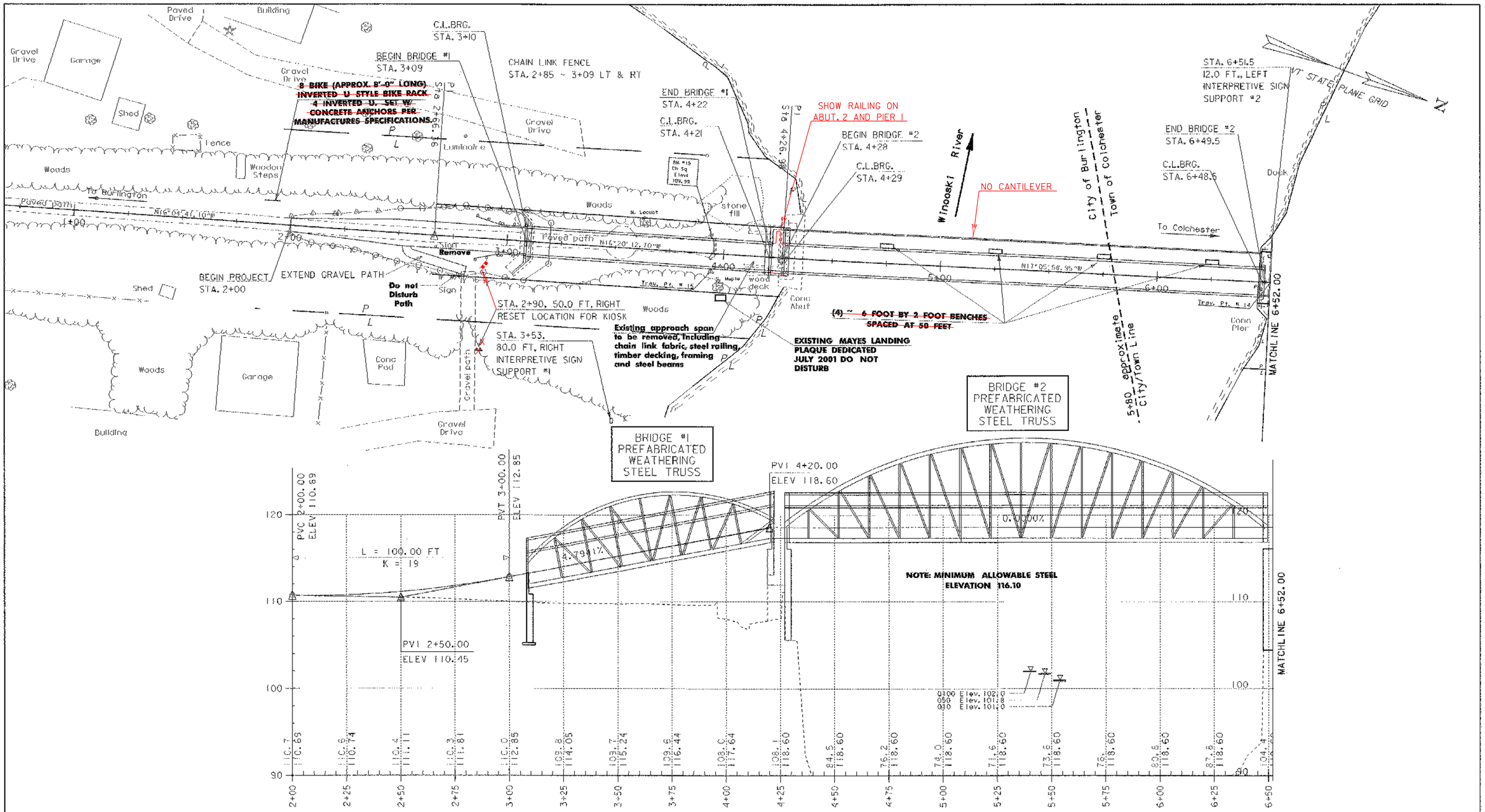
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
R.O.W. SHEET 9 OF 9 SHEETS	SHEET 20 OF 87



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DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
Layout and Profile Sheet 1	SHEET 21 OF 87

Prior to construction, the Winooski Valley Park District and Local Motion will coordinate to remove all the boardwalk sections, rubber mat, and the Colchester (northern) dock, out of the construction areas.

Remove & Relocate "Fossil Rock" (size is 53" x 26" x 12") A representative of Winooski Valley Park District will identify the boulder's current location and it's proposed relocation site. Extreme care must be taken not to damage the top surface.

STA. 6+51.5
?.0 FT., LEFT
TRPRETIVE SIGN
PT #2

BEGIN BRIDGE #3
STA. 6+53.5

C.L.BRG.
STA. 6+54.5

END BRIDGE #3
STA. 8+75

END PROJECT
8+76

C.L.BRG.
STA. 8+74

BEGIN RAISED
CONCRETE WALKWAY
STA. 10+14.25
F.G. 106.47

WINOOSKI VALLEY
PARK DISTRICT
SIGN AND MAP
STA 10+45 8'-0" LEFT

Delta 28° 18' 36.52"
Dc 22° 55' 05.92"
R 250.00'
T 63.05'
L 123.53'
E 7.83'

VT STATE PLANE GRID

Remove Sign
Remove Sign
Remove Sign
Remove Sign
Remove Sign
Remove Sign
Remove Sign

Boardwalk
Wooden Kiosk
Remove & Reset Kiosk See General Notes
To Burlington
To Colchester
Woods
Sand
Wet area
Stone Fill
Dirt path
Bollard Fence
Do not Disturb

6'-0" GATE FOR CHAIN LINK FENCE - 6 FEET

MATCHLINE 6+52.00
MATCHLINE 12+50.00

REMOVE EXISTING FENCE

Conc Abut
Wood Crib Wall with Fence
STONE FILL TYPE II

Remove existing timber wall, including steel posts, to existing ground surface

C.L.BRG. PATH
ABUTMENT #1
STA. 10+14.75
F.G. 106.45

C.L. PIER 1
STA. 10+52.23
F.G. 105.73

C.L. PIER 2
STA. 10+90.23
F.G. 104.99

C.L. PIER 3
STA. 11+28.23
F.G. 104.25

C.L. PIER 4
STA. 11+66.23
F.G. 104.25

C.L. PIER 5
STA. 12+04.23
F.G. 104.25

C.L. PIER 6
STA. 12+42.23
F.G. 104.25

PI Sta 11+90.80
PT Sta 11+31.65
PC Sta 11+37.18
PI Sta 10+27.17
PC Sta 12+04.23
PT Sta 12+42.23

Delta 23° 55' 26.46"
Dc 22° 55' 05.92"
R 250.00'
T 52.97'
L 104.39'
E 5.55'

BRIDGE #3
PREFABRICATED
WEATHERING
STEEL TRUSS

NOT DONE

REMOVE DETERIORATED CONCRETE

PVI 6+55.00
ELEV 118.60
-5.3168%

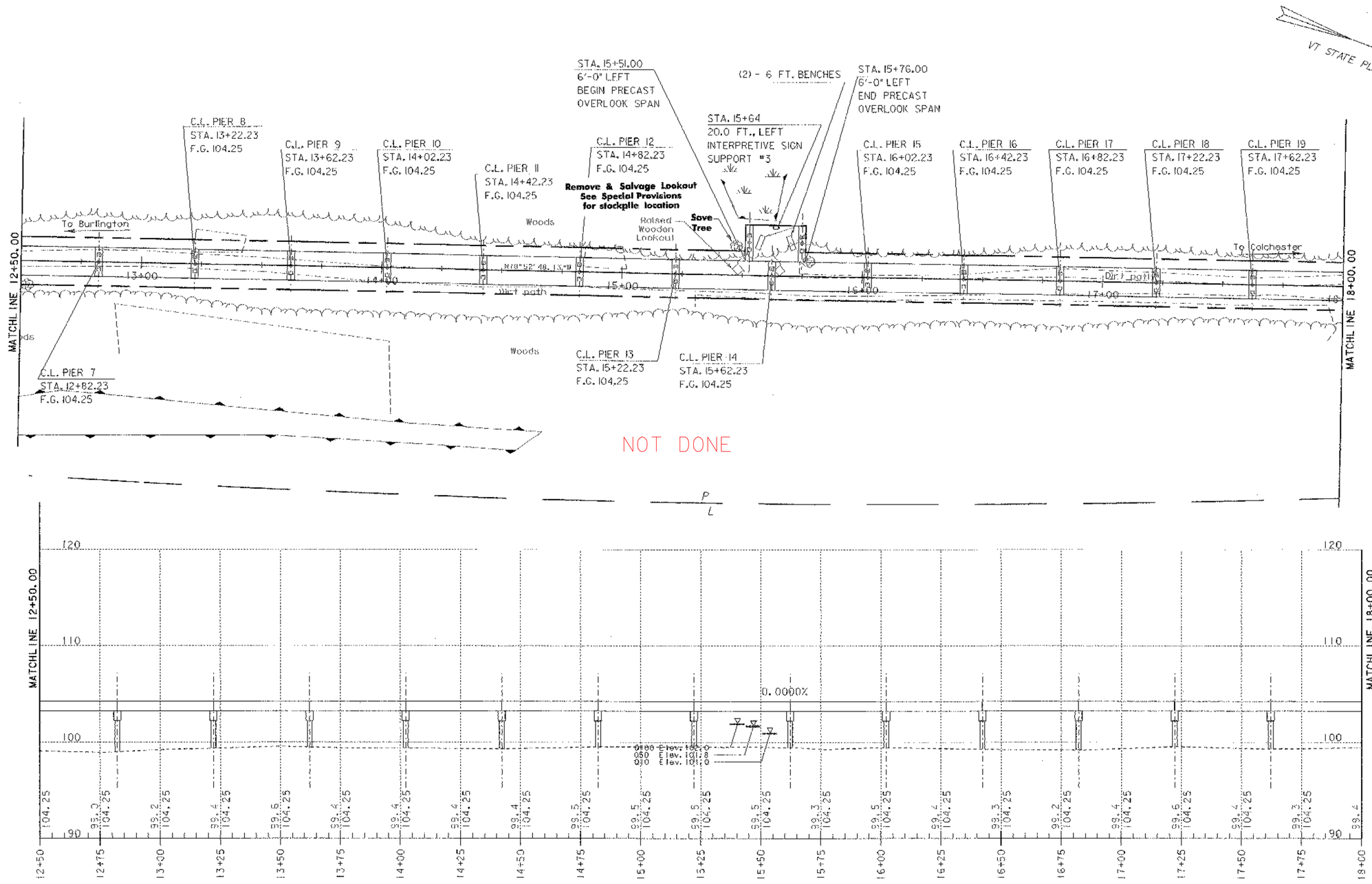
PVI 10+14.23
ELEV 106.47
-1.9480%

PVI 11+28.23
ELEV 104.25
0.0000%

Sta	Elev
6+75	111.17
7+00	110.33
7+25	109.48
7+50	108.64
7+75	107.80
8+00	106.95
8+25	106.26
8+50	105.77
8+75	105.29
9+00	104.80
9+25	104.31
9+50	104.25
9+75	104.25
10+00	104.25
10+25	104.25
10+50	104.25
10+75	104.25
11+00	104.25
11+25	104.25
11+50	104.25
11+75	104.25
12+00	104.25
12+25	104.25
12+50	104.25

0 20 40
SCALE IN FEET

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)
FILE NAME: \str5\01f132\sf132bdr.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
Layout and Profile Sheet 2	SHEET 22 OF 87



SCALE IN FEET: 0 20 40

PROJECT NAME:	Burlington - Colchester
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FILE NAME: \str5\01f132\sf132bdr.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
Layout and Profile Sheet 3	SHEET 23 OF 87

VT STATE PLANE GRID

C.L. PIER 20
STA. 18+02.23
F.G. 104.25

C.L. PIER 21
STA. 18+37.54
F.G. 104.25

C.L. PIER 22
STA. 18+75.54
F.G. 104.25

C.L. PIER 23
STA. 19+13.54
F.G. 104.25

C.L. PIER 24
STA. 19+53.54
F.G. 104.25

C.L. PIER 25
STA. 19+91.54
F.G. 104.25

C.L. PIER 26
STA. 20+29.54
F.G. 104.25

C.L. PIER 27
STA. 20+67.54
F.G. 104.25

C.L. PIER 28
STA. 21+05.54
F.G. 104.25

C.L. PIER 29
STA. 21+45.54
F.G. 104.25

C.L. PIER 30
STA. 21+85.54
F.G. 104.25

C.L. PIER 31
STA. 22+25.54
F.G. 104.25

C.L. PIER 32
STA. 22+65.54
F.G. 104.25

C.L. PIER 33
STA. 23+05.54
F.G. 104.25

C.L. PIER 34
STA. 23+45.54
F.G. 104.25

Delta 21°46' 17.69"
Dc 22°55' 05.92"
R 250.00'
T 48.08'
L 95.00'
E 4.58'

Delta 13°33' 54.02"
Dc 22°55' 05.92"
R 250.00'
T 29.73'
L 59.19'
E 1.76'

Existing wooden "Bollard Fence" to be removed and stockpiled. It will be paid for as Removal of Fence.

Remove Bollard Fence

Remove Signs

NOT DONE

To Burlington

To Colchester

Woods

Dirt path

Boardwalk

MATCHLINE 18+00.00

MATCH LINE 23+50.00

Sta 18+37.51 PC

Sta 18+67.24 PT

Sta 18+96.70 PT

Sta 19+79.90 PC

Sta 20+27.97 PT

Sta 20+74.89 PT

0.0000%

@100 Elev. 102.0
@50 Elev. 101.0
@0 Elev. 101.0

SCALE IN FEET 0 20 40

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)
FILE NAME: \str5\01f132\sf132bdr.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
Layout and Profile Sheet 4	SHEET 24 OF 87

C.L. PIER 35
STA. 23+85.54
F.G. 104.25

C.L. PIER 36
STA. 24+25.54
F.G. 104.25

C.L. PIER 37
STA. 24+65.54
F.G. 104.25

C.L. PIER 38
STA. 25+05.54
F.G. 104.25

C.L. PIER 39
STA. 25+45.54
F.G. 104.25

C.L. PIER 40
STA. 25+85.54
F.G. 104.25

C.L. PIER 41
STA. 26+25.54
F.G. 104.25

C.L. PIER 42
STA. 26+65.54
F.G. 104.25

Existing wooden "Bollard Fence" to be removed and stockpiled. It will be paid for as Removal of Fence.

Do not Disturb Bollard Fence

To Burlington

Bollard Fence **Remove**

MATCH LINE 23+50.00

N27°05'11.80"W

24+00

25+00

26+00

27+00

Woods

Dirt path

Boardwalk

Bollard Fence **Do not Disturb**

Woods

Dirt path

See Landscape sheet for treatment details of this area.

Path to raised wooden lookout

PROPOSED AREA FOR CONSTRUCTION VEHICLE ACCESS

CHAIN LINK FENCE
STA 27+05 ~ 27+41LT & RT

END RAISED CONCRETE WALKWAY
STA. 27+05.52

Delta 38°56'44.20"
Dc 114°35'29.61"
R 50.00'
T 17.68'
L 33.99'
E 3.03'

Sta 27+07.90 PC

Delta 29°08'37.86"
Dc 57°17'44.81"
R 100.00'
T 26.00'
L 50.87'
E 3.32'

Existing wooden "Bollard Fence" to be removed and stockpiled. It will be paid for as Removal of Fence.

NOT DONE

C.L.BRG. PATH ABUTMENT #2
Sta 27+05.02
Fence F.G. 104.01

Sta 27+25.58 PT

Sta 27+41.89 PT

Remove & Reset Fence 27+22 – 27+50 to new toe of slope

wood Fence

Sta 27+99.15 PT

3" Sumac (typ.)

Remove & Reset Kiosk See General Notes

Wooden Kiosk

2 Signs **Remove**

Sta 27+13.15 PC

Sta 28+24.02 PT

Remove wood Fence

Gate

28+00

Colchester Temp. Pt. # 2

Concrete Pad

UE

Horizon View Drive

Hydrant

Light Pole

To Colchester

R=100.00'

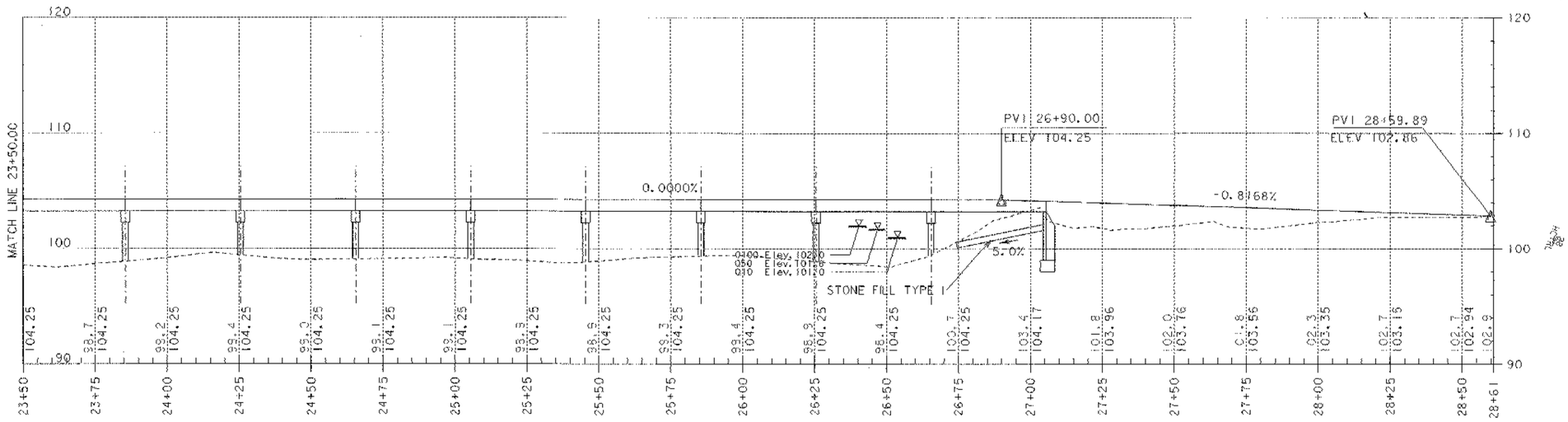
Existing paved bikepath

Windermere Way

END PROJECT
STA. 28+62

VT STATE PLANE GRID

N



0 20 40
SCALE IN FEET

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)
FILE NAME: \str5\01f132\sf132bdr.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
Layout and Profile Sheet 5	SHEET 25 OF 87

WET LAND LIMITS
SILT FENCE
SNOW FENCE
NO CONSTRUCTON PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

VT STATE PLANE GRID
N

C.L.BRG.
STA. 3+10

BEGIN BRIDGE #1
STA. 3+09

CHAIN LINK FENCE
STA. 2+85 ~ 3+09 LT & RT

P I
Sta 2+66.36

END BRIDGE #1
STA. 4+22

C.L.BRG.
STA. 4+21

P I
Sta 4+26.98

BEGIN BRIDGE #2
STA. 4+28

C.L.BRG.
STA. 4+29

Winooski River

City of Burlington
Town of Colchester

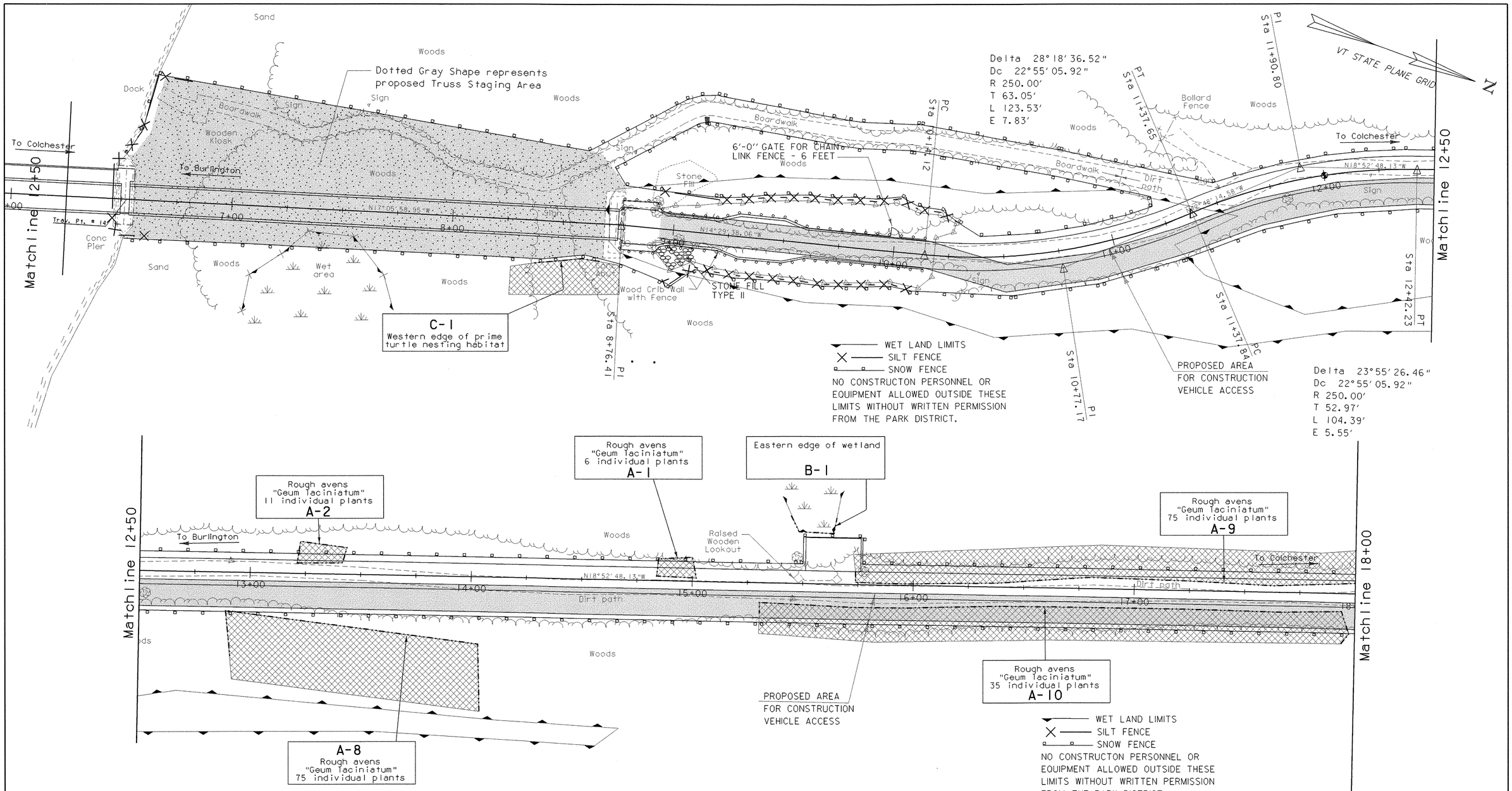
Trav. Pt. # 16

Paved Drive
Building
Gravel Drive
Garage
Shed
Fence
Woods
Wooden Steps
Luminaire
Stone Guide Posts
Paved path
To Burlington
N16°04'41.70"W
1+00
2+00
3+00
4+00
5+00
6+00
BM #15
Ch Sq
Elevt
109.99
stone fill
M. Locust
N16°20'12.70"W
N17°05'58.95"W
To Colchester
Trav. Pt. # 15
St Maple
wood deck
Conc Abut
Sign
BEGIN PROJECT
STA. 2+00
EXTEND GRAVEL PATH
STA. 2+90, 50.0 FT, RIGHT
RESET LOCATION FOR KIOSK
STA. 3+53.
80.0 FT. RIGHT
INTERPRETIVE SIGN
SUPPORT #1
Gravel path
Conc Pad
Gravel Drive
Building
Garage
Woods
Fence
Shed
Gravel Drive
Gravel Drive
Gravel Drive
Woods
Woods
Match line 6+25
5+80 approximate
City/Town Line

Resource Layout & Erosion Control

PROJECT NAME:	Burlington-Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: \str5*fl32\resourcebdr.dgn		PLOT DATE:	15-NOV-2002
PROJECT LEADER:	C. keller	DRAWN BY:	J. George
DESIGNED BY:	M. Evans-Mongeon	CHECKED BY:	
sfl32res5.i		SHEET 26	OF 87



Resource Layout & Erosion Control

0 20 40
SCALE IN FEET

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: \str5\01f132\resourcebdr.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: M. Evans-Mongeon
sf132resl.i

PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 27 OF 87

WET LAND LIMITS
SILT FENCE
SNOW FENCE
NO CONSTRUCTON PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

VT STATE PLANE GRID
N

Delta 21°46'17.69"
Dc 22°55'05.92"
R 250.00'
T 48.08'
L 95.00'
E 4.58'

Rough avens
"Geum Taciniatum"
See previous sheet
A-9

To Burlington
Woods
Matchline 18+00
PI Sta 18+67.24
PC Sta 19+79.90
PT Sta 20+74.89
N18°52'48.13"W
N5°18'54.11"W
N27°05'11.80"W
18+00
19+00
20+00
21+00
22+00
23+00
Dirt path
Boardwalk
Bollard Fence
To Colchester
Matchline 23+50
Sign

Delta 13°33'54.02"
Dc 22°55'05.92"
R 250.00'
T 29.73'
L 59.19'
E 1.76'
PC Sta 18+37.51
PT Sta 18+96.70
PI Sta 20+27.97

PROPOSED AREA
FOR CONSTRUCTION
VEHICLE ACCESS

PI Sta 27+25.58
PT Sta 27+41.89
PI Sta 27+59.15
wood Fence
Rough avens
"Geum Taciniatum"
11 individual plants
A-11
Woods
Bollard Fence
Matchline 23+50
To Burlington
N27°05'11.80"W
24+00
25+00
26+00
27+00
28+00
Dirt path
Boardwalk
Sumac
Locust
Wooden kiosk
2 Signs
Gate
Colchester Temp. Pt. # 2
Concrete Pad
UE
Horizon
Light Pole
To Colchester
Path to raised wooden lookout

See Landscape sheet for treatment details of this area.

PROPOSED AREA
FOR CONSTRUCTION
VEHICLE ACCESS

Delta 38°56'44.20"
Dc 114°35'29.61"
R 50.00'
T 17.68'
L 33.99'
E 3.03'
PC Sta 27+07.90
PT Sta 27+23.15

Delta 29°08'37.86"
Dc 57°17'44.81"
R 100.00'
T 26.00'
L 50.87'
E 3.32'
PC Sta 28+24.02
PT Sta 28+62

INSTALL 6" SUBBASE OF CRUSHED STONE AT STA 28+12 TO 28+62 AS TEMPORARY EROSION CONTROL.

WET LAND LIMITS
SILT FENCE
SNOW FENCE
NO CONSTRUCTON PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

0 20 40
SCALE IN FEET

Resource Layout & Erosion Control

PROJECT NAME: Burlington - Colchester
PROJECT NUMBER: STP Bike(45)

FILE NAME: \str5\01f132\resourcebdr.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: M. Evans-Mongeon
sf132res2.1
PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 28 OF 87

VT STATE PLANE GRID

N

N27°05'11.80"W

23+00 23+25 23+50 23+75 24+00 24+25 24+50

Northern White Cedar 3 ea. **To**

Northern White Cedar 4 ea. **To**

Silky Dogwood 6 ea. **Ca**

Northern White Cedar 2 ea. **To**

Red-Stem Dogwood 4 ea. **Cs**

Silky Dogwood 2 ea. **Ca**

Discolor Willow 9 ea. **Sd**

Red-Stem Dogwood 4 ea. **Cs**

NOT DONE

COMMON NAME	LATIN NAME	KEY	SIZE	SPACING	TYPE	QUANTITY
Northern White Cedar	Thuga occidentalis	**To**	6'-7'	As Shown	Balled & Burlapped	9
Silky Dogwood	Cornus amomom	**Ca**	5 Gal. (4'-5')	As Shown	Container	8
Red Stemmed Dogwood	Cornus stoloifera	**Cs**	5 Gal. (4'-5')	As Shown	Balled & Burlapped	8
Discolor Willow	Salix discolor	**Sd**	5 Gal. (4'-5')	As Shown	Balled & Burlapped	9

Landscaping Sheet

0 5 10
SCALE IN FEET

PROJECT NAME: Burlington - Colchester
PROJECT NUMBER: STP Bike(45)

FILE NAME: /str5/01f132/sf132scape.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf132scape.t

PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 29 OF 87

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.

2. THE BRIDGES AND THE ELEVATED WALKWAY ARE DESIGNED FOR H10 LIVE LOAD. NO CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL ON ANY OF THESE STRUCTURES.

3. CONSTRUCTION IN THE TOWN OF COLCHESTER AND DELTA PARK SHALL BE RESTRICTED TO NOVEMBER 1 THROUGH MARCH 15, EXCEPT THAT PAVING BETWEEN STATIONS 27+09 AND 28+62, WILL BE ALLOWED TO TAKE PLACE OUTSIDE OF THAT TIME FRAME.

4. CONSTRUCTION IN THE CITY OF BURLINGTON SHALL BE RESTRICTED TO NOVEMBER 1 TO APRIL 1, EXCEPT THAT PAVING BETWEEN STATIONS 2+00 AND 3+09, WILL BE ALLOWED TO TAKE PLACE OUTSIDE OF THAT TIME FRAME. CONSTRUCTION BETWEEN APRIL 1 AND NOVEMBER 1 MAY BE ALLOWED, IF THE CONTRACTOR OBTAINS WRITTEN AUTHORIZATION, IN ADVANCE, FROM THE CITY OF BURLINGTON.

5. THE BURLINGTON BIKE PATH, NORTH OF NORTH AVENUE EXTENSION, WILL BE CLOSED DURING THE CONSTRUCTION TIME OF NOVEMBER 1 TO APRIL 1. THE CONTRACTOR WILL NOTIFY THE CITY OF BURLINGTON TWO WEEKS PRIOR TO CLOSING THE BIKE PATH. WHEN THE CONSTRUCTION PROJECT IS CLOSED DOWN FOR THE SUMMER SEASON, THE CONTRACTOR SHALL LEAVE THE BURLINGTON BIKE PATH IN A SATISFACTORY CONDITION FOR THE TRAVELLING PUBLIC, WITH ANY NEEDED REPAIRS CONSIDERED SUBSIDIARY TO THE ITEM MOBILIZATION.

6. THERE WILL BE NO IN-STREAM WORK IN THE WINOOSKI RIVER.

7. CLEARING OF TREES WILL ONLY BE ALLOWED WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE LAYOUT SHEETS. TREES TO BE REMOVED SHALL BE CUT OFF AT OR NEAR THE GROUND LINE. NO STUMP REMOVAL OR EXCAVATION OF ROOTS WILL BE ALLOWED. ANY TREES, LARGER THAN 6" IN DIAMETER, WITHIN THE CONSTRUCTION LIMITS, THAT CAN BE SAVED, WITHOUT COMPROMISING CONSTRUCTION, SHALL BE LEFT STANDING.

8. THE CONTRACTOR WILL NOTIFY THE TOWN OF COLCHESTER AND THE WINOOSKI VALLEY PARK DISTRICT TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION IN DELTA PARK AND THE TOWN OF COLCHESTER.

9. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO ANY BROOK, STREAM OR RIVER.

10. THE COST OF OFF-PROJECT TEMPORARY, CONSTRUCTION SIGNS AND BARRICADES REQUIRED SHALL BE SUBSIDIARY TO THE ITEM MOBILIZATION.

11. THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:

    STRUCTURAL STEEL, AASHTO M270/M270M
    Fy = 50,000 PSI

    CONCRETE, HIGH PERFORMANCE CLASS B: f'c = 3500 PSI fc = 1200 PSI

    REINFORCING STEEL: Ft = 24,000 PSI GRADE 60
    SOIL: UNIT WEIGHT 140 PCF

    CONCRETE FOR PRESTRESSED CONCRETE f'c = 6000 PSI UNLESS OTHERWISE NOTED

12. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT, ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.

13. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" BY 1".

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

15. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).

    REINFORCING PLACEMENT TOLERANCES SHALL BE:
    SPACING + - 1/4"
    CLEARANCE + - 1/4"

16. MINIMUM COVER FOR REINFORCING STEEL SHALL BE TWO (2) INCHES ALONG THE BACK FACES OF WALLS AGAINST EARTH, AND THREE INCHES (3") ELSEWHERE, UNLESS OTHERWISE NOTED.

17. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL, OTHER BRIDGE SEAT AREAS SHALL BE SLOPED ½" PER FOOT TOWARDS MID-SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH STEEL TROWEL FINISHED.

18. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT FOR THE PRE-CAST PILES AND THE PRE-CAST CONCRETE WALKWAY UNITS.

19. FOOTING PRESSURE DESIGN:

ABUTMENT NO. 1	2.5 KSF
PATH ABUTMENT NO. 1	2.5 KSF
PATH ABUTMENT NO. 2	3.5 KSF

20. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F UNLESS OTHERWISE NOTED.

21. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). THE FABRICATOR FOR THE PRE-FABRICATED TRUSS BRIDGES SHALL BE AISC CERTIFIED FOR MAJOR BRIDGES.

22. ANY CONNECTIONS THAT ARE NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.

23. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF VERMONT SPECIFICATION 506.10.

24. ALL FIELD CONNECTIONS SHALL BE MADE AS DIRECTED BY THE TRUSS MANUFACTURER

25. THE MINIMUM LOW STEEL ELEVATION FOR SPAN #2 SHALL BE 116.10. NO MATERIAL OF ANY KIND SHALL PROJECT BELOW THIS ELEVATION BETWEEN STATIONS 4+30 AND 6+45.

26. THE REMOVAL AND/OR RESETTING OF TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE CONSIDERED SUBSIDIARY TO MOBILIZATION.

27. ~~NO BORINGS~~ HAVE BEEN TAKEN ON THIS PROJECT. HAND AUGERS WERE ~~TAKEN IN~~ NOVEMBER OF 2001, AND ARE INCLUDED IN THIS SET OF PLANS. WE ANTICIPATE HAVING BORINGS COMPLETED PRIOR TO ~~AWARDING THE CONTRACT~~. NO PILING WILL BE ORDERED PRIOR TO OUR RECEIVING AND EVALUATING THOSE BORINGS. THE PILE LENGTHS GIVEN IN THE PLANS ~~ARE ESTIMATES~~ ONLY. THERE WILL BE NO PRICE ADJUSTMENT FOR ~~CHANGES~~ IN PILE LENGTH.

28. ALL SUBSTRUCTURE CONCRETE SHALL BE CONCRETE, HIGH PERFORMANCE CLASS B UNLESS OTHERWISE NOTED.

29. THE KIOSK THAT IS TO BE REMOVED FROM STA. 7+00, 25 FEET LEFT, WILL BE RESET AT "MAYES LANDING", AT APPROXIMATELY STA. 2+90, 50 FEET RIGHT. THE FINAL LOCATION WILL BE DETERMINED BY PERSONNEL FROM WINOOSKI VALLEY PARK DISTRICT. THE KIOSK LOCATED AT STA. 27+75 RT. IS TO BE REMOVED AND RELOCATED FARTHER TO THE RIGHT. THE FINAL LOCATION WILL BE APPROVED BY THE WINOOSKI VALLEY PARK DISTRICT. PAYMENT ITEM 680.40, RELOCATE INFORMATION PLAZA, TYPE A (MOD.)

30. ~~THE EXISTING OVERLOOK AT STATION 15+50, 25 FEET LEFT, IS TO BE REMOVED UNDER ITEM 529.15, REMOVAL OF STRUCTURE (MOD.) STA 15+50. THE PRICE BID FOR THIS REMOVAL SHALL INCLUDE THE COST OF CUTTING OFF THE STRUCTURE AT GROUND ELEVATION, LOADING IT, AND TRANSPORTING IT, IN ONE PIECE, FROM DELTA PARK TO THE ETHAN ALLEN HOMESTEAD IN BURLINGTON, AND UNLOADING IT THERE.~~ WINOOSKI VALLEY PARK ~~DISTRICT~~ PERSONNEL WILL PROVIDE A PLACE TO UNLOAD THE STRUCTURE.

31. ~~THE EXISTING~~ BOLLARD FENCES WHICH ARE LOCATED AT STA. 22+65, 23+85, AND 29+25 WILL BE ~~REMOVED~~ AND THE SALVAGED TIMBER WILL BE ~~DELIVERED~~ TO THE ETHAN ALLEN HOMESTEAD, AT A ~~LOCATION TO BE DETERMINED BY~~ THE WINOOSKI VALLEY PARK DISTRICT PERSONNEL. ~~THE REMOVAL AND TRANSPORTATION~~ OF THIS MATERIAL WILL BE PAID FOR ~~UNDER ITEM~~ 620.55, REMOVAL OF EXISTING FENCE.

32. THERE IS A BOULDER (FOSSIL ROCK) TO BE RELOCATED AS PART OF THIS PROJECT. IT IS LOCATED AT APPROXIMATELY STA. 9+10, 50 FEET LEFT. IT IS TO BE REMOVED AND CAREFULLY RELOCATED, BY LIFTING, NOT DRAGGING, TO THE COLCHESTER ENTRANCE OF DELTA PARK, AS DIRECTED BY WINOOSKI VALLEY PARK PERSONNEL. PAYMENT FOR THIS WORK WILL BE MADE UNDER PAY ITEM 616.40, REMOVING AND RESETTING CURB (MOD.)

33. THE PERSON TO CONTACT RELATIVE TO THESE RELOCATION ITEMS IS SETH COFFEY, PARK MANAGER, WINOOSKI VALLEY PARK DISTRICT. PHONE - 802-863-5744

34. THE EXISTING BOARDWALKS, AND RUBBERIZED MATS, WHICH BELONG TO THE WINOOSKI VALLEY PARK DISTRICT, MUST BE REMOVED BEFORE CONSTRUCTION STARTS. THE REMOVAL OF THESE BOARDWALKS IS THE RESPONSIBILITY OF THE WINOOSKI VALLEY PARK DISTRICT AND "LOCAL MOTION".

35. THE PLANK DECK ON THE PREFABRICATED TRUSS BRIDGE WILL BE SECURELY FASTENED DOWN, WITH A MINIMUM OF ~~[2]~~ 3 FASTENERS PER PLANK. ~~IN ADDITION, A GASKET SHALL BE USED WHERE THE PLANKING IS ATTACHED TO THE STEEL TRUSS, TO PREVENT EXCESSIVE VIBRATION AND NOISE.~~ THE DECKING, ~~GASKETS~~, FASTENERS, AND ALL LABOR AND EQUIPMENT NEEDED TO COMPLETE THIS WORK, WILL BE INCLUDED IN THE BID PRICE FOR MULTI-MODAL BRIDGE FOR 545.20 PREFABRICATED MULTI-MODAL BRIDGE.

36. A TEMPORARY ACCESS IS AVAILABLE THROUGH DELTA PARK AS SHOWN ON THE LAYOUT SHEETS. THE LIMITS OF CONSTRUCTION WITHIN DELTA PARK, WILL BE LINED ON BOTH SIDES WITH SNOW FENCE AS SHOWN ON THE LAYOUT SHEETS AND THE TYPICAL WALKWAY SECTION. NO EQUIPMENT OR PERSONNEL WILL BE ALLOWED OUTSIDE THE SNOW FENCE LIMITS UNLESS APPROVED, IN WRITING, BY THE RESIDENT ENGINEER.

37. DURING THE CONSTRUCTION SEASON (NOV. THRU MID MARCH), TWO 10 INCH GAPS WILL BE LEFT IN THE SNOW FENCE, ON BOTH SIDES OF THE CONSTRUCTION AREA. THESE WILL BE AT APPROXIMATELY STA. 15+00 AND 20+00.

38. DURING THE TIME WHEN NO CONSTRUCTION IS TAKING PLACE IN DELTA PARK (MID MARCH TO NOV.), ALL OF THE SNOW FENCE WILL BE TAKEN DOWN AND REMOVED FROM THE SITE. WHEN CONSTRUCTION COMMENCES AGAIN, SNOW FENCE WILL AGAIN BE INSTALLED, AS SHOWN ON THE PLANS. PAYMENT FOR SNOW FENCE WILL BE MADE ONCE PER CONSTRUCTION SEASON. IF DAMAGE OCCURS TO THE SNOW FENCE DURING THE CONSTRUCTION SEASON, THE CONTRACTOR WILL IMMEDIATELY REPAIR OR REPLACE THE DAMAGED PARTS. PAYMENT FOR THIS REPAIR OR REPLACEMENT WILL NOT BE MADE DIRECTLY, AND WILL BE CONSIDERED SUBSIDIARY TO THE BID ITEM. WHEN THE PROJECT IS CLOSED DOWN FOR THE SUMMER SEASON, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND STOCKPILED MATERIALS FROM THE SITE. RE-MOBILIZATION REQUIRED SHALL BE SUBSIDIARY TO THE ITEM MOBILIZATION.

39. NO FILL (TEMPORARY OR PERMANENT) CAN BE PLACED WITHIN THE TOWN OF COLCHESTER/ DELTA PARK, EXCEPT AS SHOWN ON THE PLANS, WITHOUT APPROVAL OF THE RESIDENT ENGINEER, ADDITIONALLY, NO SEEDING IS ALLOWED WITHIN THE TOWN OF COLCHESTER/ DELTA PARK.

40. FROM STA. 2+85 TO 3+09, AND STA ~~26+65 TO 27+40~~ THE FENCING WILL BE 6'-0", BLACK, VINYL COATED, CHAIN LINK FENCE (MOD) (TOP BAR). PAYMENT FOR THE FENCE AND ALL HARDWARE EQUIPMENT AND LABOR NECESSARY FOR IT'S INSTALLATION WILL BE MADE UNDER ITEM 620.12, CHAIN-LINK FENCE, 6 FEET (MOD)(TOP BAR). ALL PIPE, HARDWARE, AND FABRIC WILL BE BLACK IN COLOR.

41. ~~FROM~~ STA 8+76 TO 10+14.25 THE FENCING WILL BE 6'-0", BLACK, ANNODIZED ALUMINUM FENCE, ~~AS~~ SHOWN ON SHEETS 55-59. A 6'-0" GATE WILL BE LOCATED AT ~~STA. 10+00~~ LEFT. PAYMENT FOR THE MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR THIS INSTALLATION WILL BE MADE UNDER ITEMS ~~620.12~~, CHAIN-LINK FENCE, ~~6~~ FEET (MOD.), AND ITEM 620.16, GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.) RESPECTIVELY. TWO POSTS FOR THIS FENCE WILL BE ~~MOUNTED ON~~ TOP OF EXISTING CONCRETE AT THE COLCHESTER ~~ABUTMENT~~. SIX POSTS ~~WILL~~ BE MOUNTED ON THE FACE OF THE CONCRETE ~~AT THIS~~ ABUTMENT. ~~SEE SHEET 59 FOR DETAILS.~~ ALL OF THIS WORK WILL BE ~~INCLUDED~~ IN THE PRICE BID FOR 620.12, CHAIN LINK FENCE, ~~6~~ FEET (MOD.) ~~CHAIN~~ LINK FENCE SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEERS APPROVAL.

42. ~~FROM STA. 10+14.23 TO 12+04.23 THE RAILING WILL BE 52 INCH HIGH ALUMINUM RAIL. ALL OTHER ALUMINUM RAILING WILL BE 42 INCHES HIGH. RAILING WILL BE PAID FOR UNDER ITEM 625.15, METAL HAND RAILING.~~

43. ~~INTERPRETIVE~~ SIGNS SUPPORTS, AND SIGN FRAMES, WILL BE PLACED ~~ON THE~~ OVERLOOK AT ~~STA.6+51.5~~ LEFT, ON THE PIER AT STA. 15+~~53.5~~ LEFT, AND AT STA. 3+63, 80 FEET RIGHT. ~~PAYMENT FOR THIS WORK WILL BE UNDER ITEM 675.32, TUBULAR ALUMINUM SIGN POSTS (MOD). THE SIGNS THEMSELVES WILL BE PREPARED~~ BY THE WINOOSKI ~~VALLEY PARK~~ DISTRICT. ~~PURCHASED BY THE VERMONT AGENCY OF TRANSPORTATION AND GIVEN TO THE CONTRACTOR FOR INSTALLATION. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.~~

44. ~~BENCHES LOCATED ON THE SECOND SPAN OF THE PRE-FABRICATED MULTI-MODAL BRIDGE AND ON THE OVERLOOK AT STA. 15+71, WILL BE PAID FOR UNDER ITEM 658.20, REST AREA BENCH.~~

45. ~~THE BIKE RACK LOCATED AT 2+00 LEFT, WILL BE PAID FOR UNDER ITEM 658.20, REST AREA BENCH (MOD.).~~

46. THE EXISTING BRIDGE SPAN, FROM STA. 3+96 TO 4+26 SHALL BE REMOVED ABOVE BRIDGE SEAT ELEVATION, AND DISPOSED OF. ITEMS TO BE REMOVED ARE CHAIN LINK FENCE, 2" STEEL RAILING, PRESSURE TREATED DECKING AND FRAMING AND 5 STEEL BEAMS. THIS WORK SHALL BE PAID FOR UNDER ITEM 529.20, PARTIAL REMOVAL OF STRUCTURE (STA. 3+96), (MOD.). THE PAVEMENT AND CONCRETE ABUTMENT WILL NOT BE REMOVED.

47. ~~THE EXISTING~~ TIMBER WALL LOCATED AT STA. 8+90 TO 9+05 RIGHT SHALL ~~BE REMOVED~~ ABOVE EXISTING ~~GROUND ELEVATION, AND DISPOSED OF. ITEMS TO BE REMOVED~~ ARE STEEL SIGN POSTS ~~AND TIMBER WALL. THIS~~ WORK SHALL BE PAID FOR ~~UNDER ITEM~~ 529.15, REMOVAL OF STRUCTURE (MOD.) ~~(STA. 8+90).~~

PRECAST

48. ~~PRESTRESSED~~ PRECAST MEMBERS SHALL:
A) ~~CONFORM TO~~ SECTION 510. OF THE STANDARD ~~SPECIFICATIONS~~, "PRESTRESSED ~~CONCRETE~~"
B) ~~HAVE THE ENDS OF THE PRESTRESSING STRANDS RECESSED AND GROUTED~~
C) USE CONCRETE WITH F'C = ~~6000~~ PSI UNLESS OTHERWISE NOTED.
D) USE CONCRETE WHICH CONTAINS AN APPROVED CORROSION INHIBITOR ADMIXTURE AT A DOSAGE RATE OF 4 GALLONS PER CUBIC YARD.
E) CONTAIN PRESTRESSING STRANDS WHICH ARE 0.6" IN DIAMETER, 270 KSI, LOW ~~RELAXATION STEEL~~ STRANDS, CONFORMING TO SECTION 713.06 OF THE ~~STANDARD SPECIFICATIONS~~, PULLED TO 75% OF THEIR YIELD.

PROJECT NAME:	**Burlington- Colchester**		
PROJECT NUMBER:	**STP BIKE (45)**		
FILE NAME:	sl132gnots.xls	PLOT DATE:	11/15/2002
PROJECT LEADER:	C. S. Keller	DRAWN BY:	M. Evans-Mungean
DESIGNED BY:	M. Evans-Mungean	CHECKED BY:	0
GENERAL NOTES SHEET #1		SHEET 30	OF 87

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GENERAL NOTES

49. THE FABRICATOR MAY, WITH THE APPROVAL OF THE STRUCTURES ENGINEER, ALTER THE DESIGN, AS DETAILED, TO MEET THE PLANT'S PRESTRESSING OPERATION AND MATERIAL REQUIREMENTS. AN ALTERNATE STRAND CONFIGURATION MAY BE SUBMITTED FOR APPROVAL, PROVIDED THAT THE DESIGN IS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF VERMONT, AND THAT THE DESIGN MEETS ALL OF THE APPLICABLE DESIGN CRITERIA, LOADINGS AND CODES, SPECIFIED IN THESE PLANS.

50. THE PRICE PER PRECAST UNIT SHALL INCLUDE DELIVERY TO THE PROJECT IN COLCHESTER, AT THE MOUTH OF THE WINOOSKI RIVER, AND SHALL INCLUDE THE ⅝" DIAMETER TRANSVERSE TENDONS, GALVANIZED CHOCKS WITH ½" PLATE, THE 1¼", ALL ANCHOR BOLTS, AND THE HOT POURED JOINT SEALER, AND MORTAR TYPE IV, AS SHOWN IN THE PLANS.

51. THE ½" DIAMETER TRANSVERSE TENDONS SHALL BE POLYSTRAND OR EQUIVALENT. THE ½" PLATE SHALL CONFORM TO AASHTO M270 GR 36. THE ½" PLATE, AND THE CHOCKS SHALL BE GALVANIZED AFTER FABRICATION, ACCORDING TO AASHTO M232. ALL WORK COVERED IN THIS NOTE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "PRESTRESSED CONCRETE MEMBER."

52. THE JOINTS BETWEEN THE SLABS SHALL BE FILLED WITH MORTAR, TYPE IV, IN ACCORDANCE WITH SECTION 510.13b). THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE "PRESTRESSED CONCRETE MEMBER". AND SUBSECTION 501.07(b)

53. THE TRANSVERSE STRANDS SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF THE MORTAR.

54. MATERIALS, LABOR AND EQUIPMENT FOR ALL DRILLING, GROUTING AND THE COLD POURED JOINT FILLER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "PRESTRESSED CONCRETE MEMBER", THE GROUT SHALL CONFORM TO MORTAR, TYPE IV.

55. BEARING NOTES

A. The bearing shape factor shall be between 5.0 and 12.0

B. Any necessary reinforcement between layers of elastomeric shall be steel ASTM grade A36. The Agency will not permit fabric reinforcement.

C. When using steel reinforcement, these plans refer to the top and bottom layers of elastomeric as bedding layers. The minimum thickness of these layers shall be 1/4 ". The bedding layers are included in the "Effective Rubber Thickness" (ERT).

D. Bearing Design Information:

Loads (unfactored):	R(dl+adl) = 4.4 kips; R(ll) = 8.6 kips
Design Method:	Design Method A for bearing design
Temperature:	80 deg. F.
Material:	60 Durometer neoprene.
Maximum Bearing Stress:	1000 psi
Design Rotation:	0.014 rad

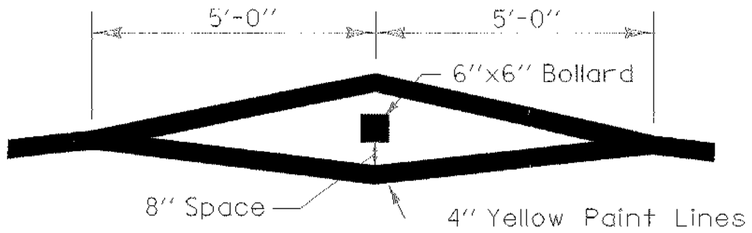
E. All materials and fabrication shall be per AASHTO division II section 18.2 and AASHTO Materials Specification M251.

F. The Contractor may submit alternative bearing designs for approval. Any alternative submitted shall be designed and certified to meet the loads and criteria shown on the plans and shall maintain the anchorage system shown. The bearings shall be designed according to AASHTO "Standard Section 14 by either method A or B.

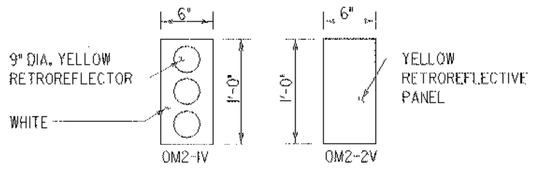
G. The bearings shall be paid for under the item 531.10 "Bearing Device Assembly." There will be a total of 708 Bearing Device Assemblies paid on this project. A bearing device assembly consists of 1 pad at each of the bearing locations shown on sheets 39-51

(2) Addendum Two, Note 52, 12-5-02

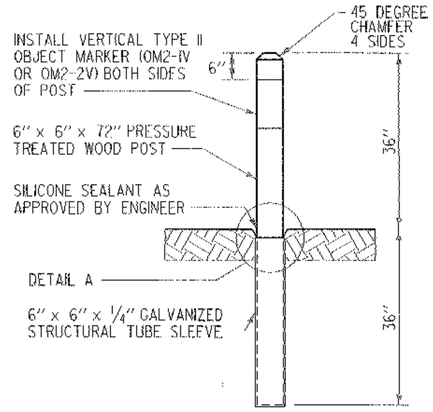
PROJECT NAME:	Burlington- Colchester		
PROJECT NUMBER:	STP BIKE (45)		
FILE NAME:	sf132gnote.xls	PLOT DATE:	11/15/2002
PROJECT LEADER:	C. S. Keller	DRAWN BY:	M. Evans-Mongeon
DESIGNED BY:	M. Evans-Mongeon	CHECKED BY:	0
GENERAL NOTES SHEET #2		SHEET 31	OF 87



Bollard Marking Detail



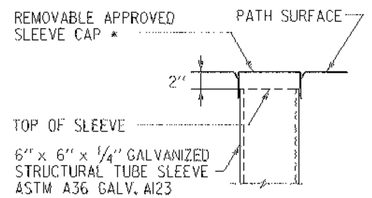
TYPE 2 OBJECT MARKERS



WOOD BOLLARD WITH POST CAP

Sta. 27+25.0 Centerline

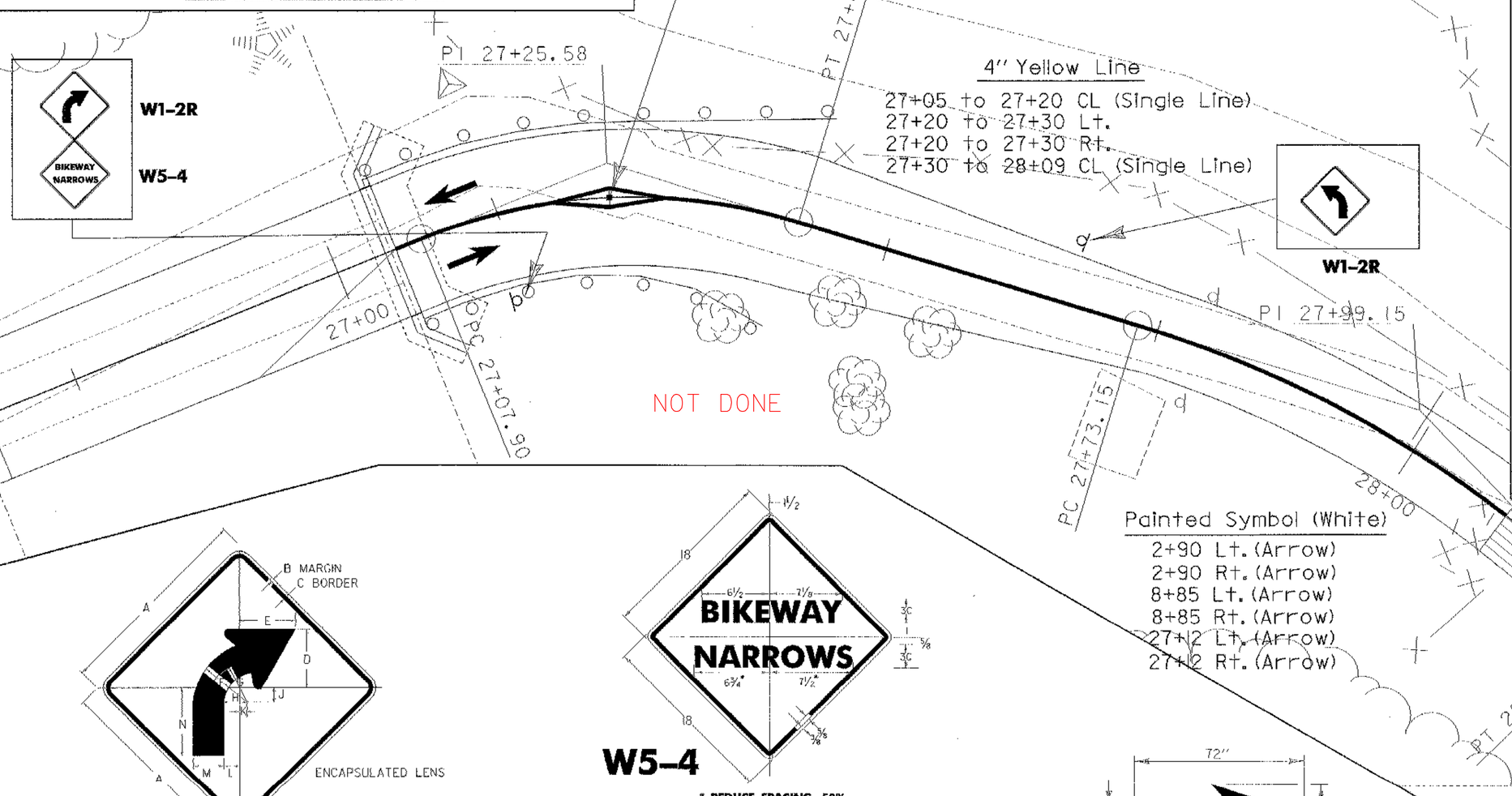
NOTE:
CONTRACTOR SHALL ENSURE BOLLARDS ARE REMOVABLE ONCE PLACED WITHIN SLEEVE BY MILLING TIMBER AS NEEDED.

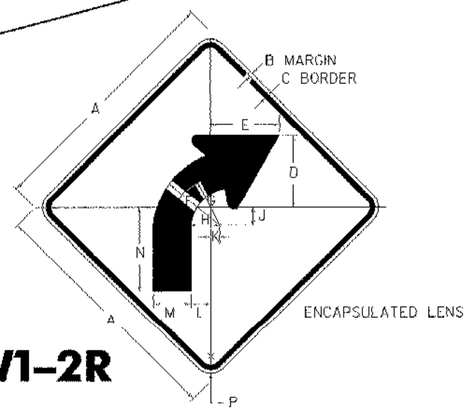


* CONTRACTOR SHALL SUPPLY RESIDENT ENGINEER WITH 4 ADDITIONAL SLEEVE CAPS TO BE RETAINED FOR FUTURE USE.

DETAIL A

PAYMENT FOR BOLLARD, MARKERS, POST CAP AND SLEEVE WILL BE MADE UNDER ITEM 619.15 WOOD MARKER POST (MOD.)





W1-2R

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
PATH	18	3/8	5/8	5 3/8	5 1/2	6	4 3/4	3 3/8	1 3/4	1 1/4	2	2 5/8	6 1/4	1 1/2

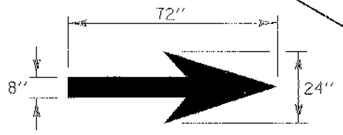
W5-4

* REDUCE SPACING 50%

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
PATH	18	5/8	5/8	5	3/8	1 1/2

GENERAL

SEE STANDARD E-144 FOR ARROW HEAD DETAILS



Arrow Detail

0 5 10
SCALE

Signs & Markings

PROJECT NAME: **Burlington-Colchester**
PROJECT NUMBER: **STP Bike(45)**

FILE NAME: /str5/0lcl32/sf132signs.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 33 OF 87

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SOILS & FOUNDATIONS UNIT
AUGER DRILLING NOTES (FEET)

PROJECT Burlington-Colchester PROJECT No. STP BIKE (45)

BY CHECKED BY TE

STATION OFFSET	DATE	BORING	DEPTH	SOIL FIELD DESCRIPTION: SOIL TYPE	COLOR	MOISTURE	LAB NO.	Organic Content (%)	LABORATORY CLASSIFICATION
9+00 4.0 RT	15-Nov-01	B-1	0.0 - 5.0	Gr*					
			NLTD						
			NOTES: * Hand steel. Material appears to be crushed stone.						
10+00 CL	15-Nov-01	B-2	0.0 - 6.0	Gr*					
			NLTD						
			NOTES: * Crushed Stone (Railroad Ballast)						
11+00 CL	15-Nov-01	B-3	0.0 - 7.0	Sa	Brn	Dry	E010556		Sand A-3
			7.0 - 10.0	SiSa	Gry	Wet	E010557		Silty Sand A-4
			NLTD						
			NOTES: Water at 7.8 feet BGL						
12+00 CL	15-Nov-01	B-4	0.0 - 5.0	SiSa	Brn	Dry	E010558		Sand A-2-4
			5.0 - 8.0	SaSi	Dk Gry	Wet	E010559		Silty Sand A-4
			8.0 - 10.0	Sa	Gry	Wet	E010560		Sand A-1-b
			NLTD						
			NOTES: Water at 6.2 feet BGL						
13+00 CL	15-Nov-01	B-5	0.0 - 4.0	Sa	Brn	Dry	E010561		Gravelly Sand A-2-4
			4.0 - 5.0	Muck	Blk	Moist	E010562	8.2	A-4
			5.0 - 7.0	SaSi	Gry	Wet	E010563		Silty Sand A-4
			7.0 - 10.0	Sa	Gry	Wet	E010564		Sand A-2-4
			NLTD						
			NOTES: Water at 5.9 feet BGL						

14+00 CL	15-Nov-01	B-6	0.0 - 3.0	Sa	Brn	Dry	E010565		Sand A-2-4
			3.0 - 4.0	Muck	Blk	Moist	E010566	6.8	A-4
			4.0 - 6.0	SaSi	Gry	Wet	E010567		Sandy Silt A-4
			6.0 - 10.0	Sa	Gry	Wet	E010568		Sand A-2-4
			NLTD						
			NOTES: Water at 5.6 feet BGL						
15+00 CL	15-Nov-01	B-7	0.0 - 5.0	Sa	Brn	Dry	E010569		Sand A-2-4
			5.0 - 10.0	Sa	Gry	Wet	E010570		Sand A-1-b
			NLTD						
			NOTES: Water at 5.4 feet BGL						
16+00 CL	15-Nov-01	B-8	0.0 - 6.0	Sa	Brn	Dry	E010571		Gravelly Sand A-1-b
			6.0 - 10.0	Sa	Gry	Wet	E010572		Silty Sand A-2-4
			NLTD						
			NOTES: Water at 5.9 feet BGL						
17+00 CL	15-Nov-01	B-9	0.0 - 3.0	Sa	Brn	Dry	E010573		Sand A-2-4
			3.0 - 7.0	SiSa	Gry	Moist	E010574		Silty Sand A-4
			7.0 - 10.0	Sa	Gry	Wet	E010575		Sand A-2-4
			NLTD						
			NOTES: Water at 5.8 feet BGL						
18+00 CL	15-Nov-01	B-10	0.0 - 5.0	Sa	Brn	Dry	E010576		Sand A-2-4
			5.0 - 6.0	Muck	Dk Brn	Moist	E010577	9	A-4
			6.0 - 10.0	Sa	Gry	Wet	E010578		Sand A-2-4
			NLTD						
			NOTES: Water at 5.5 feet BGL						
19+00 CL	15-Nov-01	B-11	0.0 - 7.0	Sa	Brn	Dry	E010579		Sand A-1-b
			7.0 - 10.0	Sa	Gry	Wet	E010580		Sand A-3
			NLTD						
			NOTES: Water at 7.3 feet BGL						
20+00 CL	15-Nov-01	B-12	0.0 - 6.0	Sa	Brn	Dry	E010581		Sand A-3
			6.0 - 8.0	Si/Tr Organic	Gry/Brn	Moist	E010582	4.2	A-4
			8.0 - 10.0	Sa	Gry	Wet	E010583		Sand A-2-4
			NLTD						
			NOTES: Unable to obtain water level. Drill hole collapsed.						

21+00 CL	15-Nov-01	B-13	0.0 - 5.0	Sa	Brn	Dry	E010584		Sand A-3
			5.0 - 7.0	Si/Tr Organic	Gry/Brn	Moist	E010585	3.3	A-4
			7.0 - 10.0	Sa	Gry	Wet	E010586		Sand A-2-4
			NLTD						
			NOTES: Water at 5.3 feet BGL						
22+00 CL	15-Nov-01	B-14	0.0 - 6.0	Sa	Brn	Dry	E010587		Sand A-1-b
			6.0 - 7.5	Si/Organic	Gry/Brn	Moist	E010588	6.6	A-4
			7.5 - 10.0	Sa	Gry	Wet	E010589		Sand A-2-4
			NLTD						
			NOTES: Water at 6.2 feet BGL						
22+65 CL	15-Nov-01	B-15	0.0 - 5.0	Sa	Brn	Dry	E010590		Sand A-1-b
			5.0 - 10.0	Sa	Gry	Wet	E010591		Silty Sand A-2-4
			NLTD						
			NOTES: Unable to obtain water level. Drill hole collapsed.						
24+00 CL	15-Nov-01	B-16	0.0 - 5.0	Sa	Brn	Dry	E010592		Sand A-1-b
			5.0 - 6.0	Muck/Organic	Dk Brn	Moist	E010593	13.7	A-4
			6.0 - 10.0	SiSa	Gry	Wet	E010594		Silty Sand A-2-4
			NLTD						
			NOTES: Water at 4.6 feet BGL						
25+00 CL	15-Nov-01	B-17	0.0 - 5.5	Sa	Brn	Dry	E010595		Sand A-3
			5.5 - 6.5	Muck/Organic	Dk Brn	Moist	E010596	10.1	A-4
			6.5 - 10.0	Sa	Gry	Wet	E010597		Sand A-3
			NLTD						
			NOTES: Water at 4.4 feet BGL						
26+00 CL	15-Nov-01	B-18	0.0 - 5.0	Sa	Brn	Dry	E010598		Sand A-3
			5.0 - 7.0	Sa	Gry	Wet	E010599		Sand A-1-b
			7.0 - 8.5	Muck/Organic	Dk Brn	Moist	E010600	21.1	A-8
			8.5 - 10.0	SiSa	Gry	Wet	E010601		Silty Sand A-4
			NLTD						
			NOTES: Water at 5.7 feet BGL						
27+00 CL	15-Nov-01	B-19	0.0 - 8.0	Sa	Brn	Dry	E010602		Sand A-3
			8.0 - 10.0	Sa	Gry	Wet	E010603		Sand A-1-b
			NLTD						
			NOTES: Unable to obtain water level. Drill hole collapsed at 8.1 feet BGL.						

GENERAL NOTES: All water level measurements obtained immediately after withdrawl of augers.
Most auger holes collapsed very soon after withdrawl of augers.

PROJECT NAME: Burlington - Colchester
PROJECT NUMBER: STP Bike(45)

FILE NAME: \str5\01f132\sf132bdr.dgn PLOT DATE: 26-JUL-2002
PROJECT LEADER: C. Keller DRAWN BY:
DESIGNED BY: CHECKED BY:
SHEET 34 OF 87

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-201
SHEET 1 OF 2
DATE STARTED: 11/8/02
DATE COMPLETED: 11/8/02

PROJECT NAME: BURLINGTON-COLCHESTER
PROJECT NUMBER: STP BIKE (45)
SITE NAME: BIKE PATH
SITE NO.: DELTA PARK
STATION: 12+00.00
OFFSET: 0.00
GROUND EL.: 99.62
G.W. DEPTH: HOLE CAVED IN

BORING CREW
CREW CHIEF: HOLT
DRILLER: YOUNG
LOGGER: SOMERS
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	OR	A-4, SaSi with Trace of Organics (2.4%), gry, Moist, Rec. = 2.00′	3	42		42.6	57.4		
10		A-3, Sa, gry, Moist, Rec. = 0.65′	6	22	5.7	91.1	3.2		
15		A-1-b, Sa, gry, Moist, Rec. = 0.50′	4	22.5	3.2	95.4	1.4		
20		A-3, Sa, gry, Moist, Rec. = 0.75′	5	26.5	1	96.4	2.6		
25		A-1-b, Sa, gry, Moist, Rec. = 0.90′	7	18.7	10.9	84	5.1		
30		A-3, Sa, gry, Moist, Rec. = 0.85′	6	23.6	3.3	91.1	5.6		
35		A-1-b, Sa, gry, Moist, Rec. = 0.90′	4	20	8.4	87.3	4.3		
40		A-2-4, SiSa with Wood, gry, Moist, Rec. = 1.75′	WH	33.7	8	59.8	32.2		
45		A-4, SiSa, gry, Moist, Rec. = 1.30′	8	28.8	2.5	55.2	42.3		

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-201
SHEET 2 OF 2
DATE STARTED: 11/8/02
DATE COMPLETED: 11/8/02

PROJECT NAME: BURLINGTON-COLCHESTER
PROJECT NUMBER: STP BIKE (45)
SITE NAME: BIKE PATH
SITE NO.: DELTA PARK
STATION: 12+00.00
OFFSET: 0.00
GROUND EL.: 99.62
G.W. DEPTH: HOLE CAVED IN

BORING CREW
CREW CHIEF: HOLT
DRILLER: YOUNG
LOGGER: SOMERS
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
	OR	A-4, Si with Trace of Organics (3.4%), gry, Moist, Rec. = 1.80′	6	41.9		9.6	90.4		
55		A-2-4, SiSa, gry, Moist, Rec. = 1.20′	18	19.2	4	70.2	25.8		
60		A-4, SaGrSi, gry, Moist, Rec. = 1.00′	10	15.1	35.7	24.3	40		
65		A-2-4, SiSa, gry, Moist, Rec. = 1.75′	29	19.8	5.6	72.9	21.5		
70		A-2-4, Sa, gry, Moist, Rec. = 1.75′	28	22	2.6	86.5	10.9		
75		A-3, Sa, gry, Moist, Rec. = 0.90′	12	22.7		97.8	2.2		
80		A-4, SaSi, gry, Moist, Rec. = 1.10′	11	28		26.2	73.8		
85		A-4, Si, gry, Moist, Rec. = 1.50′	13	30		14.6	85.4		
90		A-4, Si, gry, Moist, Rec. = 2.00′	9	29.8		10.9	89.1		
95		Hole stopped @ 92.0′							

SURVEYED BY _____ DATE _____
DRAWN BY J.TOUCHETTE DATE 11/02
SQUAD LEADER C.C. BENDA
DESIGN FILE NO. /M&R/01f132/mf132bor.dgn
IPARM FILE _____ DATE PLOTTED 15-NOV-2002
PROJ. NAME BURLINGTON-COLCHESTER
PROJ. NO. STP BIKE(45)
SHEET 1 OF 2 SHEETS 35 OF 87

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-202
SHEET 1 OF 2
DATE STARTED: 11/7/02
DATE COMPLETED: 11/7/02

PROJECT NAME: BURLINGTON-COLCHESTER
SITE NAME: BIKE PATH
STATION: 19+00.00
GROUND EL.: 99.95
PROJECT NUMBER: STP BIKE (45)
SITE NO.: DELTA PARK
OFFSET: 0.00
G.W.DEPTH: HOLE CAVED IN

BORING CREW
CREW CHIEF: HOLT
DRILLER: YOUNG
LOGGER: SOMERS
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		A-2-4, SiSa, gry, Moist, Rec. = 1.50'	7	29.1	0.3	78.6	21.1		
10		A-2-4, SiSa, gry, Moist, Rec. = 1.30'	7	27.3	0.3	78.3	21.4		
15		A-1-b, Sa, gry, Moist, Rec. = 1.00'	4	35.5	4.6	90.4	5		
20		A-2-4, Sa, gry, Moist, Rec. = 1.20'	4	29.2	9.3	71.1	19.6		
25		A-4, SiSa, gry, Moist, Rec. = 1.75'	2	38.1		58.2	41.8		
30		A-2-4, Sa, gry, Moist, Rec. = 1.10'	3	31.5		85.9	14.1		
35		A-2-4, Sa, gry, Moist, Rec. = 2.00'	9	27.1		86.7	13.3		
40		A-4, SaSi, gry, Moist, Rec. = 2.00'	4	41.8	0.8	22.7	76.5		
45	OR	A-4, SaSi with Trace of Organics (3.0%), gry, Moist, Rec. = 2.00'	3	43		29.6	70.4		

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-202
SHEET 2 OF 2
DATE STARTED: 11/7/02
DATE COMPLETED: 11/7/02

PROJECT NAME: BURLINGTON-COLCHESTER
SITE NAME: BIKE PATH
STATION: 19+00.00
GROUND EL.: 99.95
PROJECT NUMBER: STP BIKE (45)
SITE NO.: DELTA PARK
OFFSET: 0.00
G.W.DEPTH: HOLE CAVED IN

BORING CREW
CREW CHIEF: HOLT
DRILLER: YOUNG
LOGGER: SOMERS
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, SiSa, gry, Moist, Rec. = 1.50'	8	26.2		75.3	24.7		
55		A-4, SiSa, gry, Moist, Rec. = 1.75'	5	30.1		60.2	39.8		
60		A-3, Sa, gry, Moist, Rec. = 0.80'	12	32.9	0.2	93.6	6.2		
65		A-1-b, GrSa, gry, Moist, Rec. = 0.80'	14	15.1	36.2	56.6	7.2		
70		A-1-a, SaGr, gry, Moist, Rec. = 0.90'	8	10.8	53.7	41.3	5		
75		A-4, SaSi, gry, Moist, Rec. = 1.65'	17	27.6		33.4	66.6		
80		A-3, Sa, gry, Moist, Rec. = 0.90'	10	27.4		94.2	5.8		
85		A-4, SaSi, gry, Moist, Rec. = 1.50'	14	28.3		41.2	58.8		
90		A-4, SiSa, gry, Moist, Rec. = 1.45'	17	26.3		54.2	45.8		
95		Hole stopped @ 92.0'							

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-203
SHEET 1 OF 2
DATE STARTED: 11/5/02
DATE COMPLETED: 11/6/02

PROJECT NAME: BURLINGTON-COLCHESTER
SITE NAME: BIKE PATH
STATION: 24+00.00
GROUND EL.: 98.97
PROJECT NUMBER: STP BIKE (45)
SITE NO.: DELTA PARK
OFFSET: 0.00
G.W.DEPTH: 4.0 11/07/02

BORING CREW
CREW CHIEF: HOLT
DRILLER: YOUNG
LOGGER: SOMERS
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	OR	A-2-4, SiSa with Trace of Organics (2.3%), brn-gry, Moist, Rec. = 1.25'	6	39.6	0.3	78.6	21.1		
10	OR	A-8, Organic Silt (20.5%) brn-gry, Moist, Rec. = 1.80'	2	110.4					
15		A-4, SiSa with Wood, brn-gry, Moist, Rec. = 1.75'	9	32.5		55.2	44.8		
20		A-2-4, SiSa, gry, Moist, Rec. = 1.00'	17	26.4		71.9	28.1		
25	OR	A-4, SaSi with Trace of Organics (1.4%), gry, Moist, Rec. = 1.00'	4	31.8		49.3	50.7		
30	OR	A-4, Si with Trace of Organics (2.8%), gry, Moist, Rec. = 2.00'	9	46.7	0.1	18.5	81.4		
35	OR	A-4, Si with Trace of Organics (2.5%), gry, Moist, Rec. = 1.80'	2	42.3		14.4	85.6		
40	OR	A-4, SaSi with Trace of Organics (3.6%), gry, Moist, Rec. = 1.90'	4	43.5		28.9	71.1		
45		A-2-4, Sa, gry, Moist, Rec. = 1.45'	8	27.3	4.5	79.1	16.4		

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

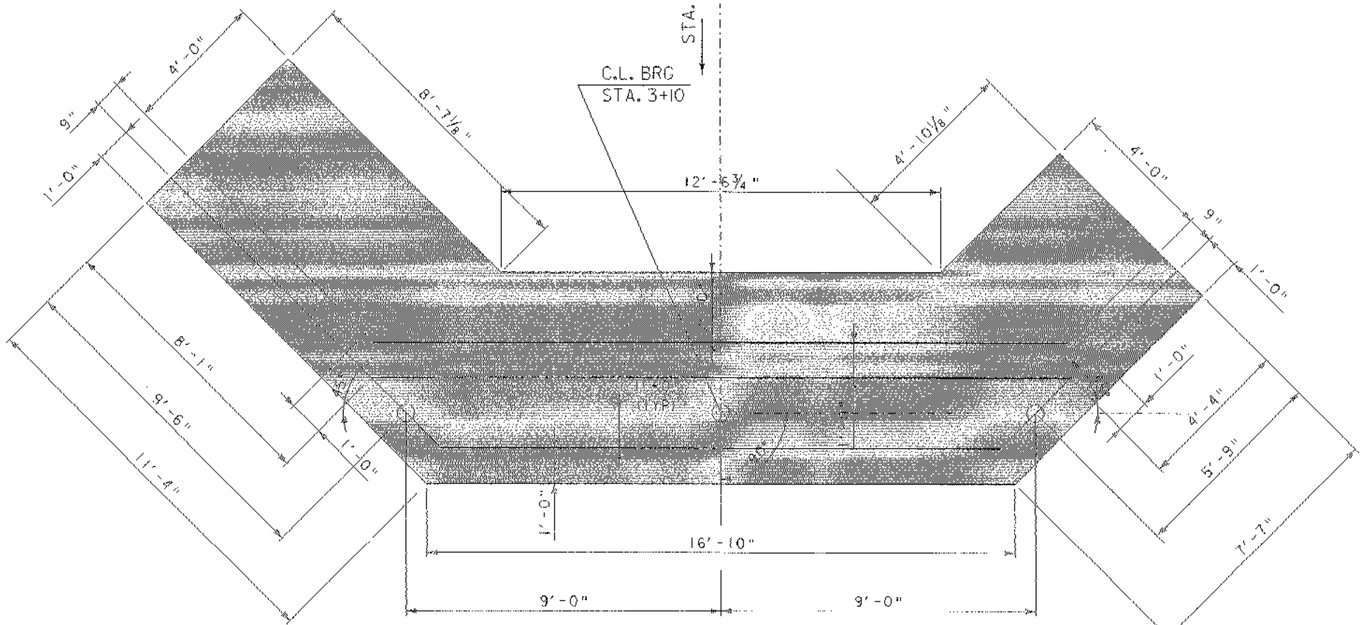
HOLE NO.: B-203
SHEET 2 OF 2
DATE STARTED: 11/5/02
DATE COMPLETED: 11/6/02

PROJECT NAME: BURLINGTON-COLCHESTER
SITE NAME: BIKE PATH
STATION: 24+00.00
GROUND EL.: 98.97
PROJECT NUMBER: STP BIKE (45)
SITE NO.: DELTA PARK
OFFSET: 0.00
G.W.DEPTH: 4.0 11/07/02

BORING CREW
CREW CHIEF: HOLT
DRILLER: YOUNG
LOGGER: SOMERS
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

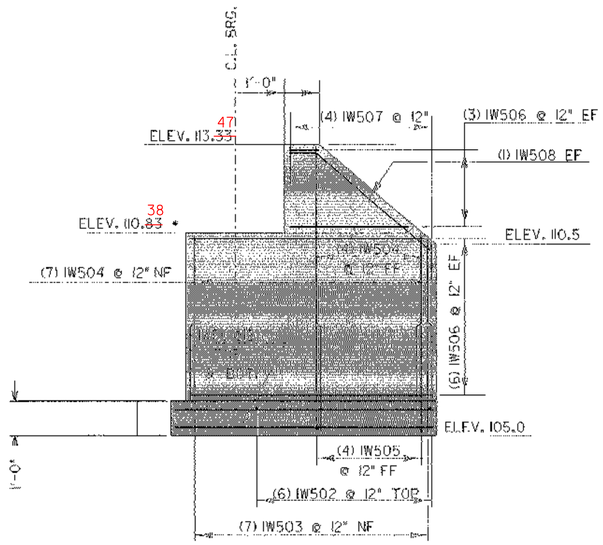
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, Sa, gry, Moist, Rec. = 0.90'	8	18.9	13.4	79.5	7.1		
55		A-1-b, SaGr, gry, Moist, Rec. = 0.75'	11	11.8	47.4	45.7	6.9		
60		A-1-b, Sa, gry, Moist, Rec. = 0.85'	13	17.7	13.6	80.1	6.3		
65		A-4, SaSi, gry, Moist, Rec. = 1.30'	21	25.3	2.5	36	61.5		
70		A-4, Si, gry, Moist, Rec. = 1.70'	16	25.7		10.7	89.3		
75		A-4, Si, gry, Moist, Rec. = 1.50'	15	26.2		11.6	88.4		
80		A-4, Si, gry, Moist, Rec. = 1.90'	11	29		16.5	83.5		
85		A-4, SaSi, gry, Moist, Rec. = 1.75'	14	27.3		31.3	68.7		
90		A-4, Si, gry, Moist, Rec. = 1.85'	10	29.4		14.7	85.3		
95		A-4, SaSi, gry, Moist, Rec. = 1.90'	10	27.1		27.9	72.1		
		Hole stopped @ 97.0'							

SURVEYED BY _____ DATE _____
DRAWN BY J.TOUCHETTE DATE 11/02
SQUAD LEADER C.C. BENDA
DESIGN FILE NO. /M&R/01f132/mf132bor.dgn
IPARM FILE _____ DATE PLOTTED 15-NOV-2002
PROJ. NAME BURLINGTON-COLCHESTER
PROJ. NO. STP BIKE(45)
SHEET 2 OF 2 SHEETS 36 OF 87



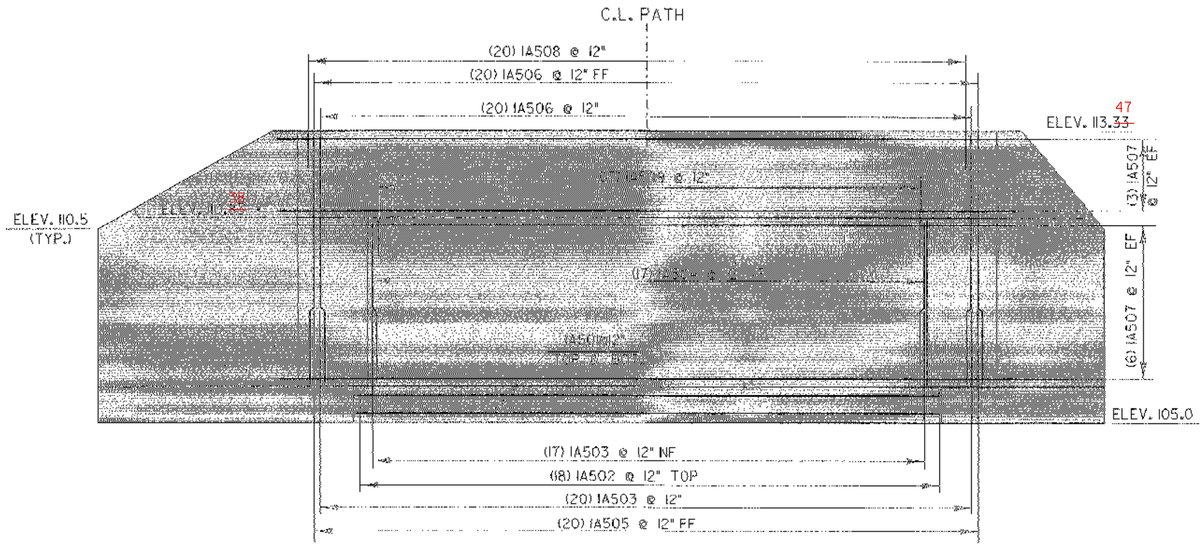
BRIDGE ABUTMENT #1 PLAN

SCALE ½"= 1'-0



WINGWALL # 1 ELEVATION

SCALE ½"= 1'-0



BRIDGE ABUTMENT #1 ELEVATION

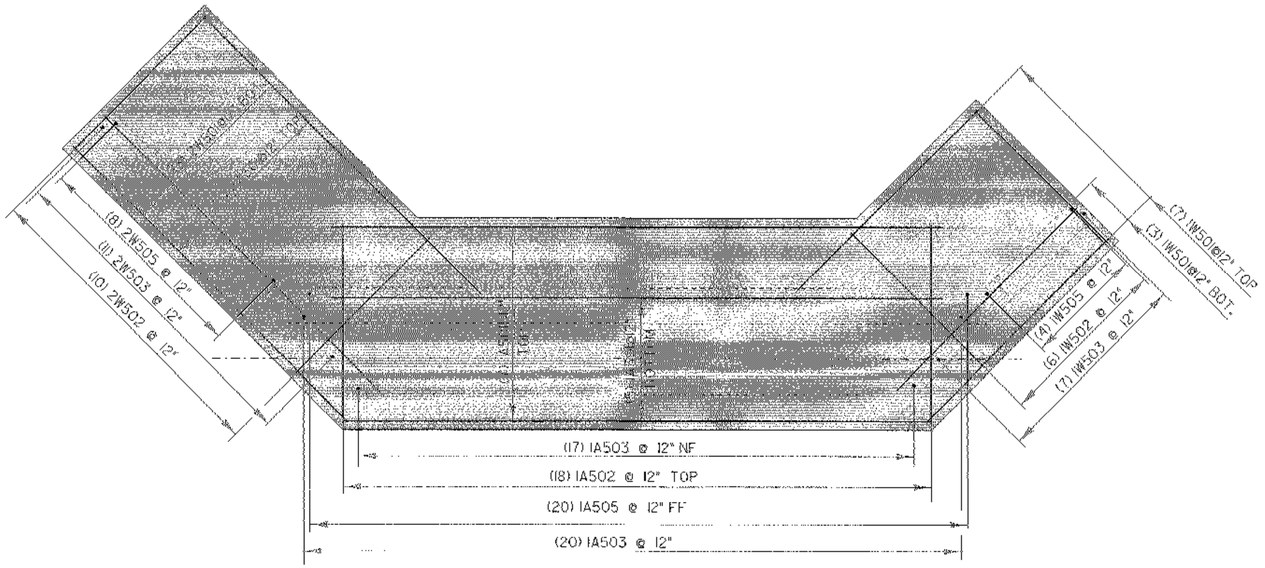
SCALE ½"= 1'-0

* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

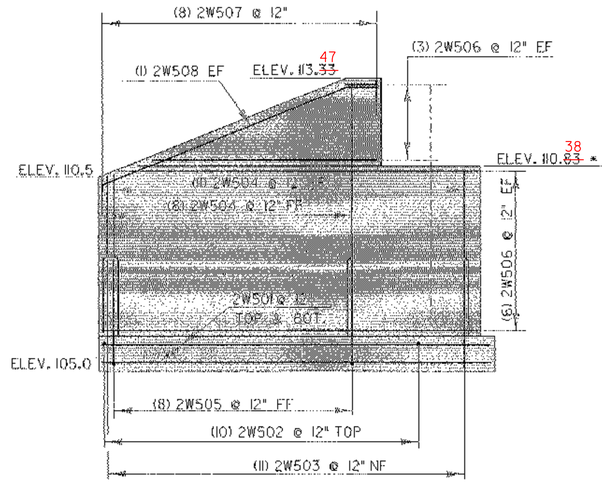
Town Of BURLINGTON-COLCH.	Bridge No. 3+10
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
ABUTMENT 1 (STA 3+10)	
DETAILS	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
I:\G.C.\texts\cadd\Illingcabinets\Off132\Structures\sf132bdt.dgn	sf132bdt
Bridge Sheet No.	Sheet 59 of 87

PLOTTED 15-NOV-2002



BRIDGE ABUTMENT # 1 REINF. PLAN

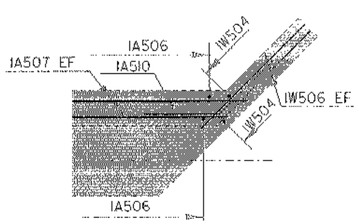
SCALE ½"= 1'-0



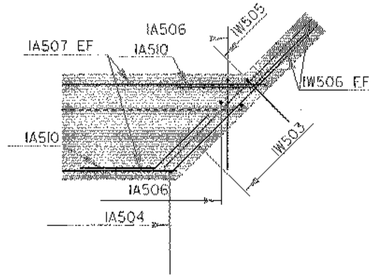
WINGWALL # 2 ELEVATION

SCALE ½"= 1'-0

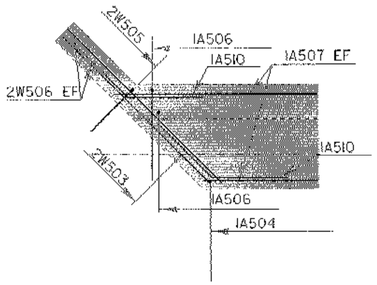
above br seat



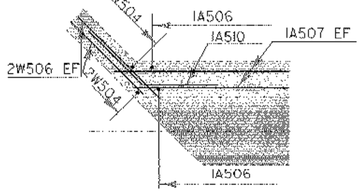
below br seat



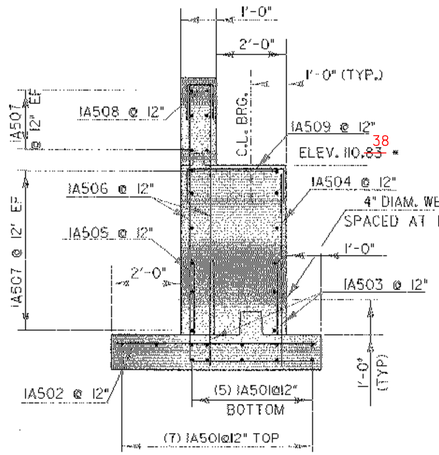
below br seat



above br seat

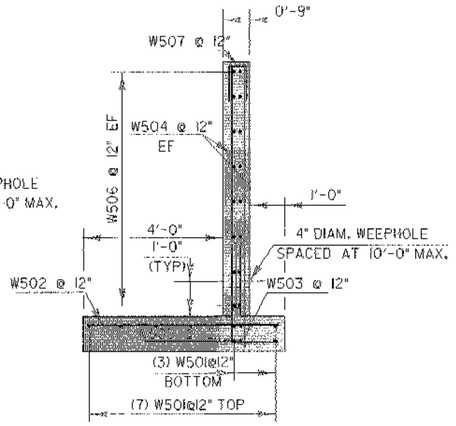


* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.



ABUTMENT # 1 TYPICAL

SCALE ½"= 1'-0



WINGWALL #1 & #2 TYPICAL

SCALE ½"= 1'-0

NOTE:

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

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town of BURLINGTON-COLCH.	Bridge No. 3 - 10
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
ABUTMENT 1 (STA.3+10)	
FOOTING REINFORCING AND WW TYPICALS	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
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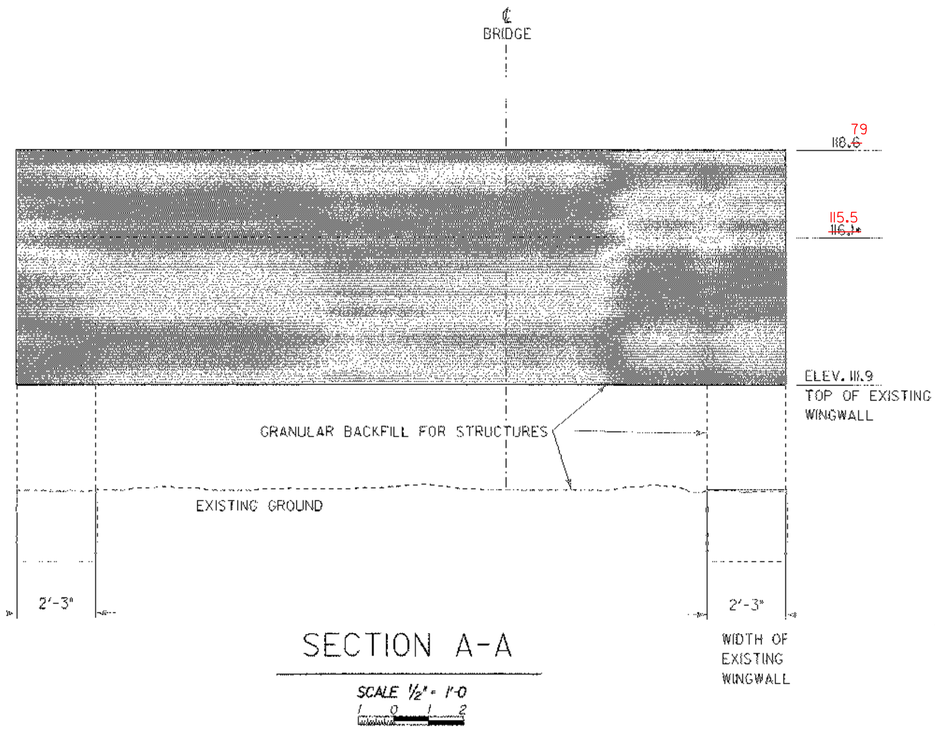
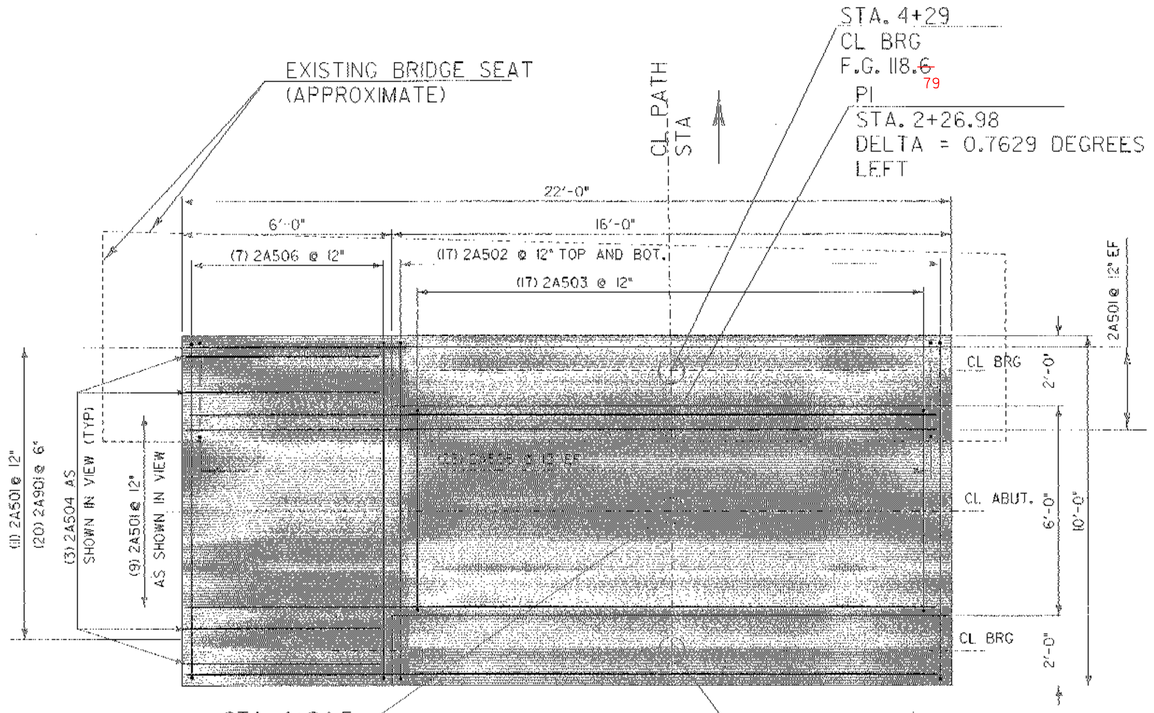
Bridge Sheet No.	Sheet 60 of 87

PLOTTED 15-NOV-2002



SECTION A-A

SCALE ½" = 1'-0



PLAN VIEW

SCALE ½" = 1'-0

* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.

NOTE:

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STATE OF VERMONT
AGENCY OF TRANSPORTATION

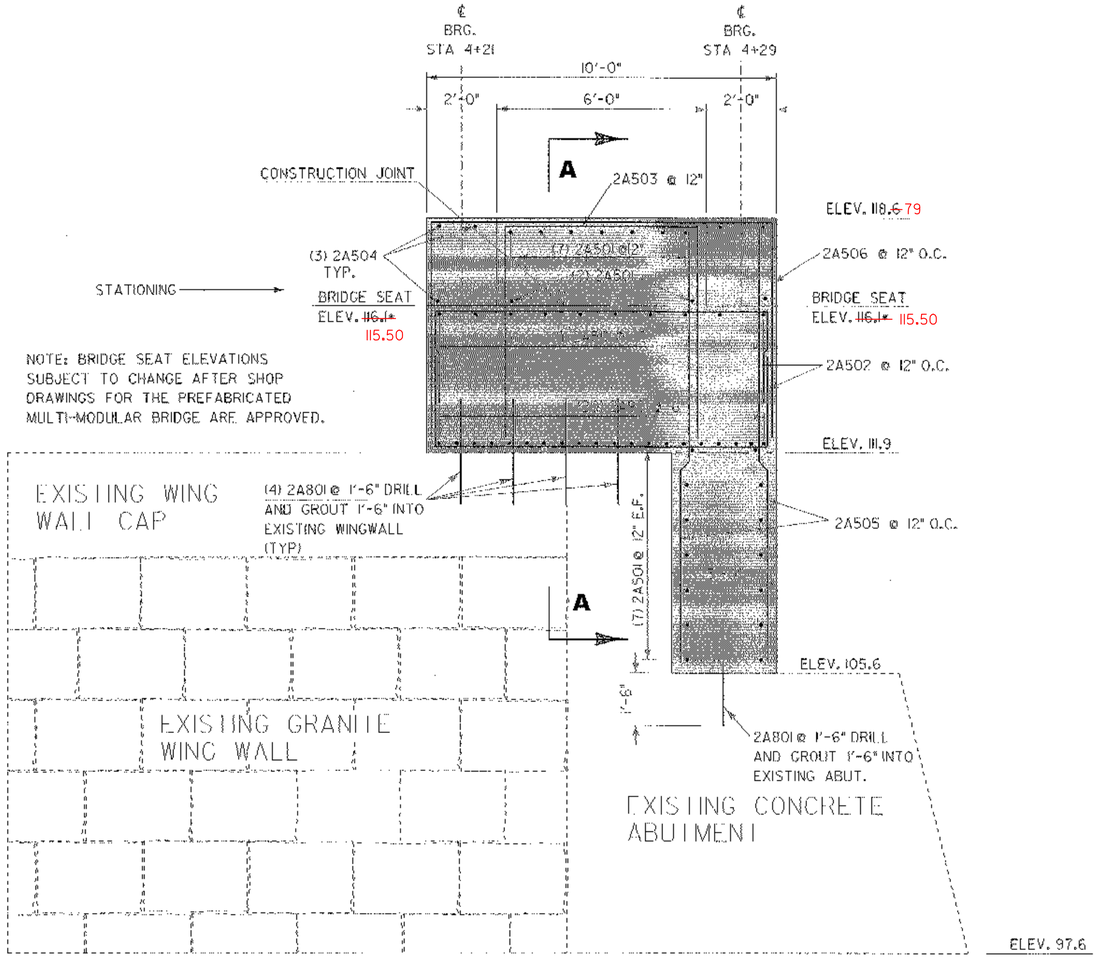
Town Of BURLINGTON-COLCH.	Bridge No. 4-27
Highway No. BIKE PATH	Log Sta. / Surv. Sta.

ABUTMENT 2 (STA.4 +27)

LAYOUT AND REINFORCING

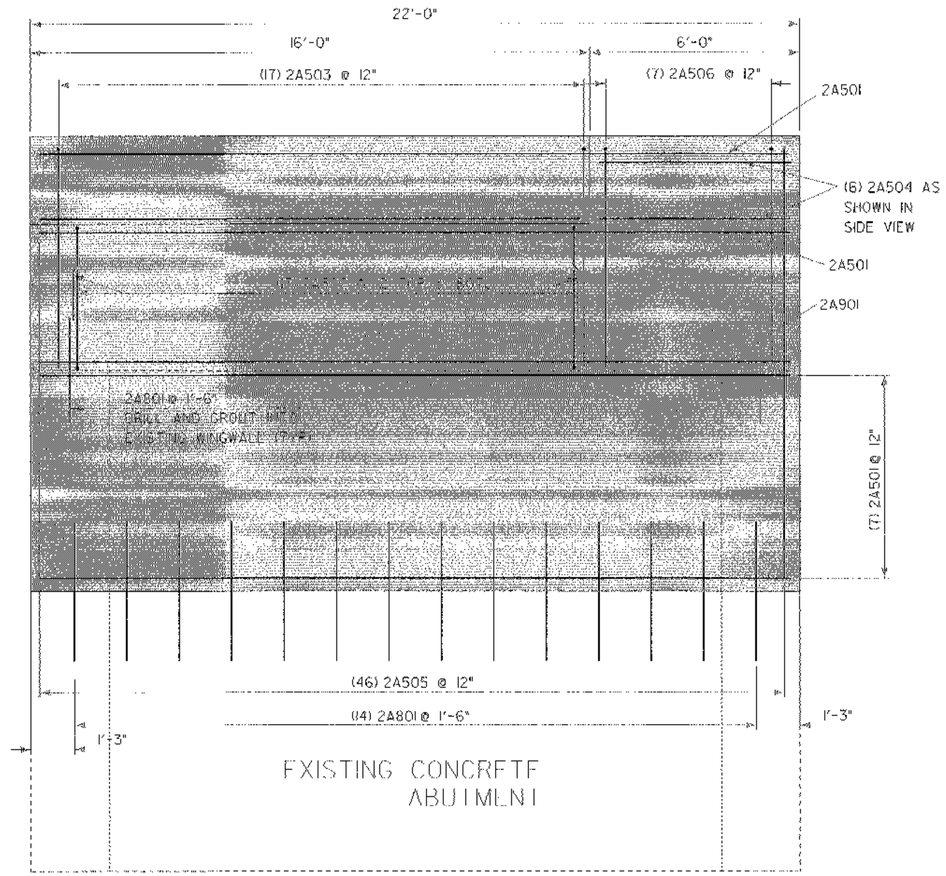
Designed By M.EVANS-MONGEON	Drawn By J.GEORGE
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
I.G.C. \\adot...\structures\sf132bdr.dgn	sf132ab2a1
Bridge Sheet No.	Sheet 61 of 87

PLOTTED 15-NOV-2002



SIDE VIEW

SCALE ½" = 1'-0



ELEVATION VIEW

SCALE ½" = 1'-0

* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.

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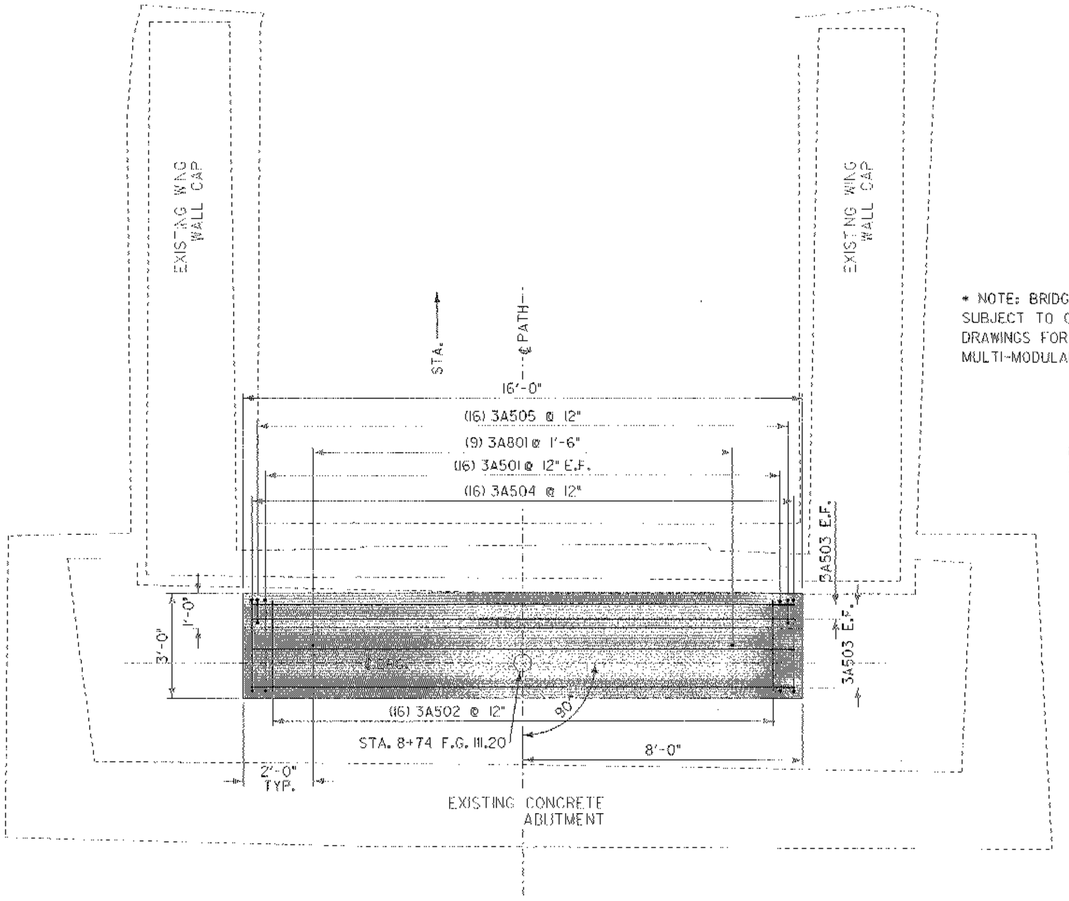
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BURLINGTON-COLCH.	Bridge No. 4-27
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
ABUTMENT #2 (STA 4+27)	
ELEVATION AND SIDE VIEW	
Designed By M.EVANS-MONGEON	Drawn By J.GEORGE
Checked By / Date	Bridge Design Supervisor C.S.KELLER / Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
I:\C.\leaflet_cadd\Filingcabinet\X01f132\structures\sf132bdr.dgn	sf132bdr2b1
Bridge Sheet No.	Sheet 62 of 87

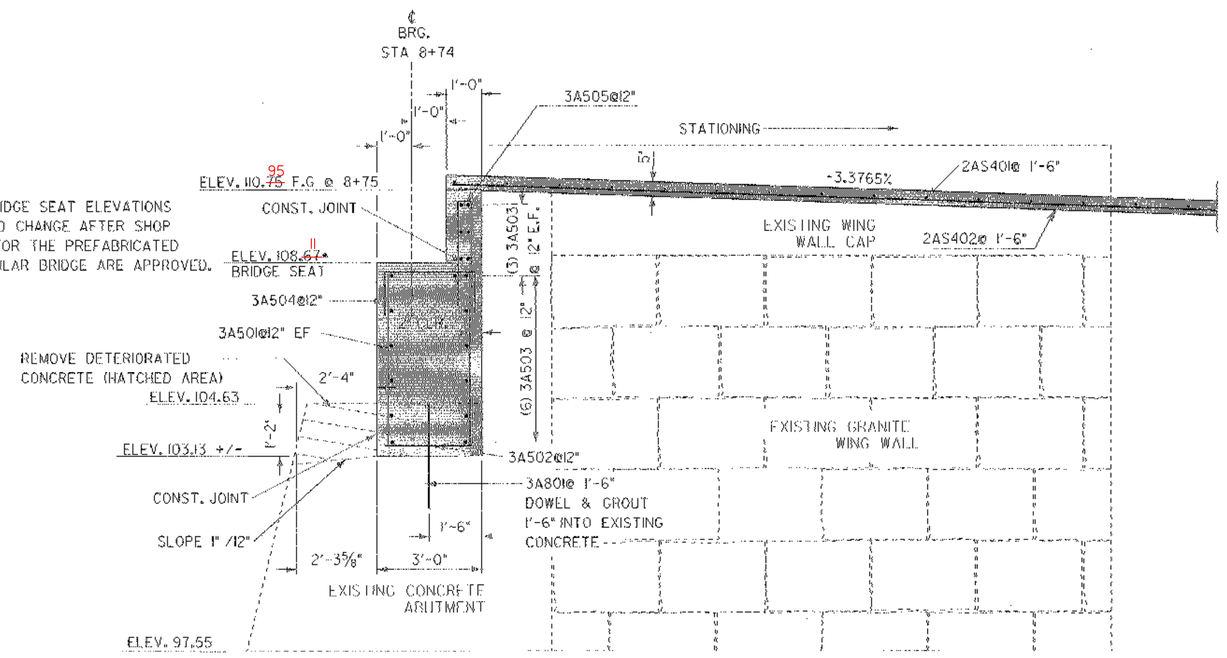
PLOTTED 15-MAY-2002



PLAN VIEW

SCALE ½" = 1'-0

* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.



SIDE VIEW

SCALE ½" = 1'-0

NOTE:

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FF - FAR FACE
EF - EACH FACE
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3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BURLINGTON-COLCH.	Bridge No. 8 - 75
Highway No. BIKE PATH	Leg. Sta. / Surv. Sta.
ABUTMENT 3 (STA.8+75)	
DETAILS	
Designed By M.EVANS MONGEON	Drawn By R.GEORGE
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
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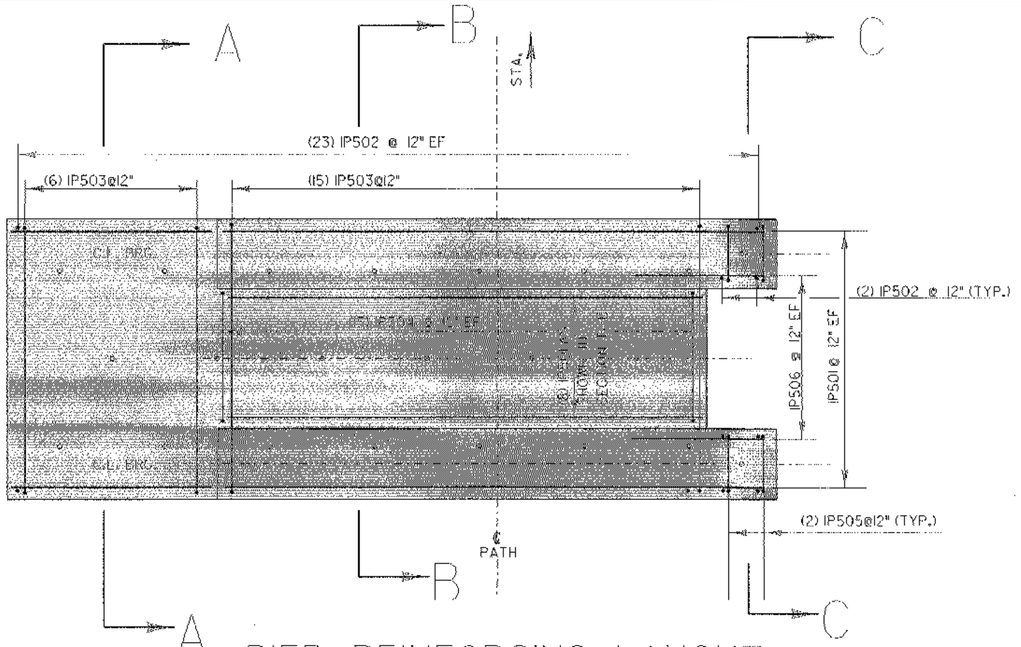
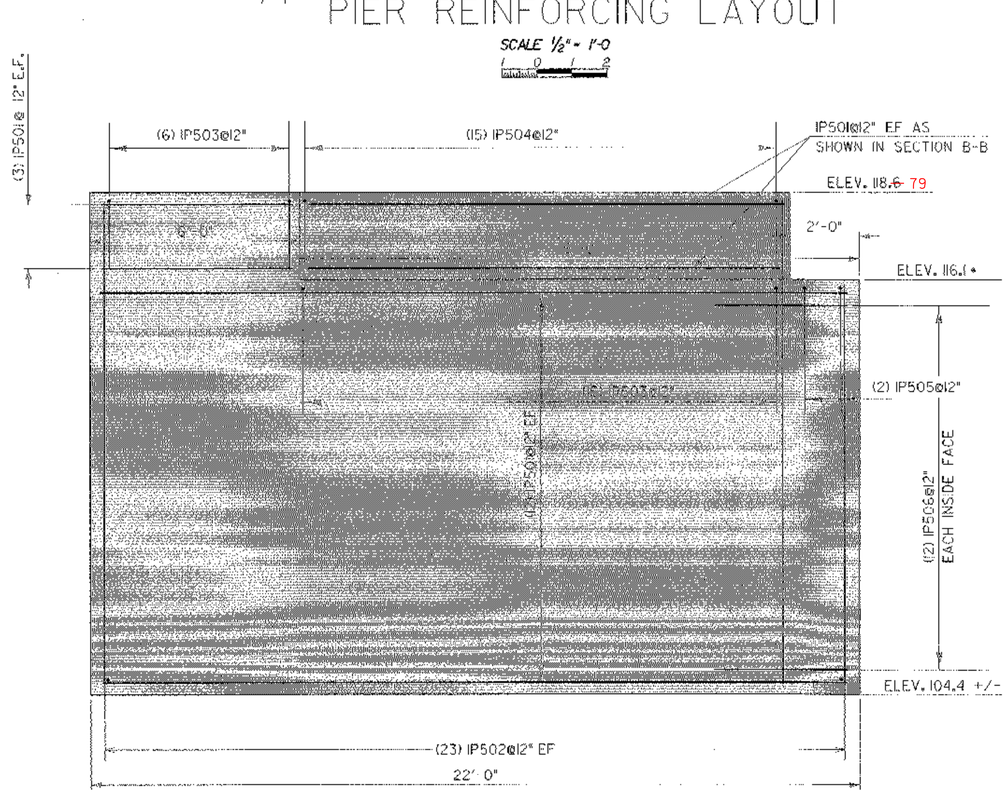
Bridge Sheet No.	Sheet 63 of 87



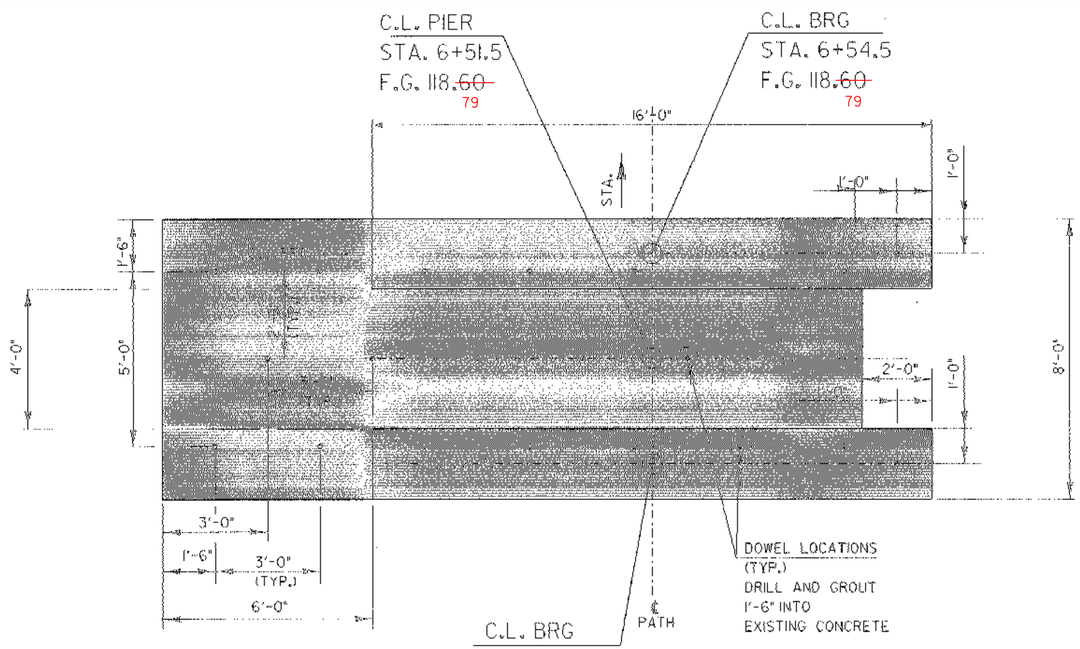
PIER REINFORCING LAYOUT

SCALE ½" = 1'-0



PIER ELEVATION VIEW

SCALE ½" = 1'-0



PIER PLAN VIEW

SCALE ½" = 1'-0

* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.

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3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BURLINGTON-COLCH.	Bridge No. 6 • 51
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
PIER (STA.6+51)	
DETAILS	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By / Date	Bridge Design Supervisor C.S.KELLER / Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
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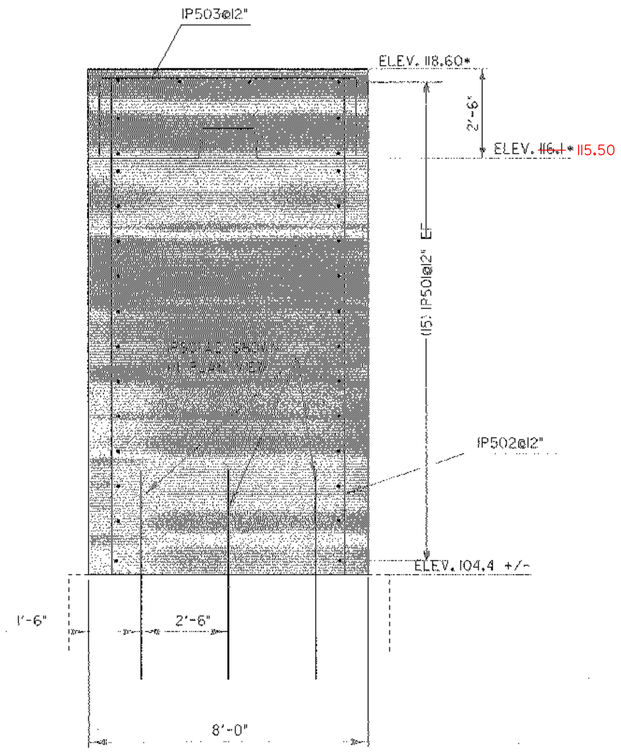
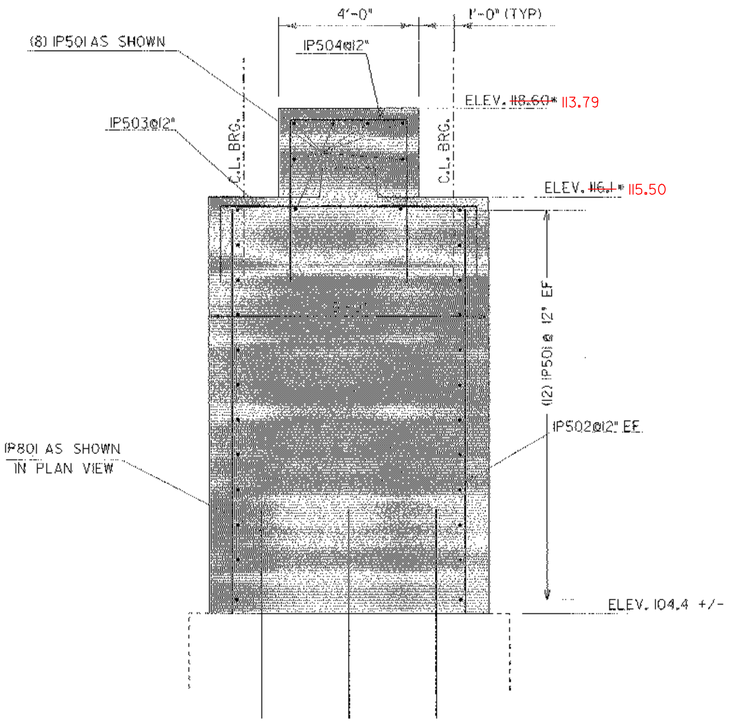
Bridge Sheet No.	Sheet 64 of 87

PLOTTED 15-NOV-2002



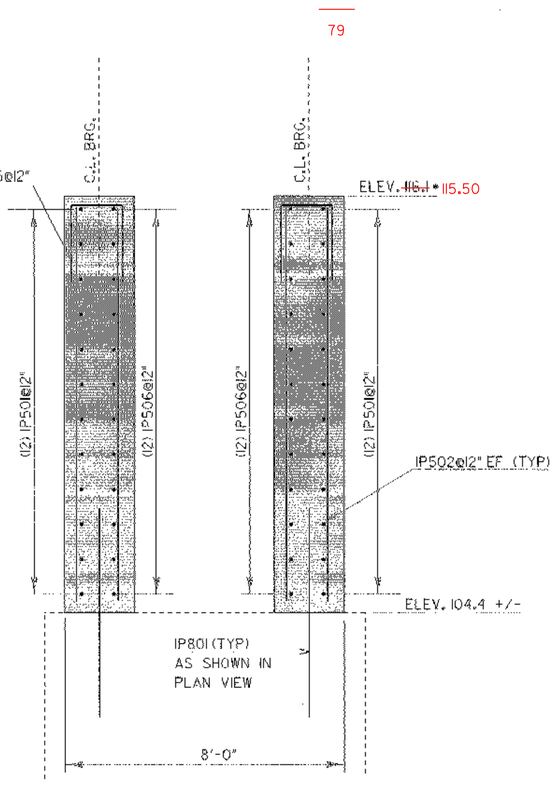
PIER SECTION A-A

SCALE ½" = 1'-0



PIER SECTION B-B

SCALE ½" = 1'-0



PIER SECTION C-C

SCALE ½" = 1'-0

* NOTE: BRIDGE SEAT ELEVATIONS SUBJECT TO CHANGE AFTER SHOP DRAWINGS FOR THE PREFABRICATED MULTI-MODULAR BRIDGE ARE APPROVED.

NOTE:

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

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BURLINGTON-COLCH.	Bridge No. B*75
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
PIER (STA.6+51)	
SECTION VIEWS	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By / Date	Bridge Design Supervisor C.S.KELLER / Date
PROJECT BURLINGTON-COLCH.	PROJECT NO. STP BIKE (45)
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Bridge Sheet No.	Sheet 65 of 87

PLOTTED 15-NOV-2002

STATE OF VERMONT
AGENCY OF TRANSPORTATION

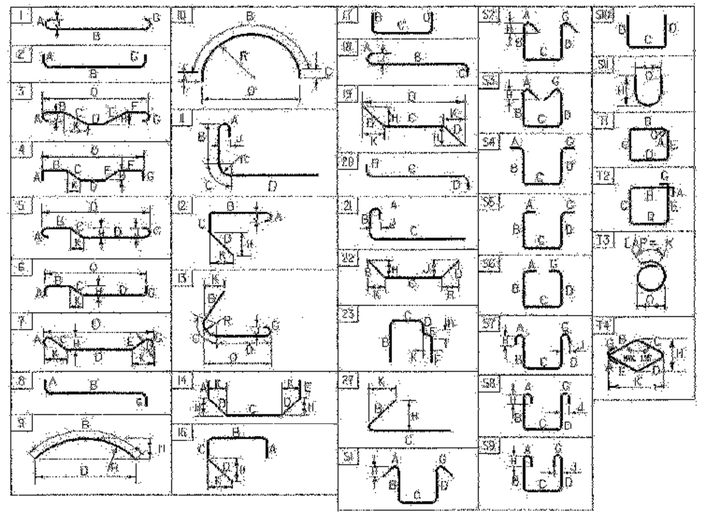
REINFORCING STEEL SCHEDULE

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
Abut 1																	
	12	5	16'- 3"	1A501	STR												
♦	19	5	9'- 6"	1A502	STR												
	37	5	2'- 11"	1A503	STR												
	17	5	4'- 7"	1A504	STR												
	20	5	6'- 6"	1A505	17			2'- 10"	3'- 6"								
	40	5	7'- 1"	1A506	STR												
♦	18	5	21'- 8"	1A507	STR												
	20	5	2'- 6"	1A508	S10		1'- 6"	0'- 7"	1'- 6"								
	17	5	4'- 9"	1A509	S10		1'- 6"	2'- 7"	1'- 6"								
	36	5	4'- 4"	1A510	22		2'- 2"	2'- 2"									
Wingwall 1																	
	10	5	7'- 0"	1W501	STR												
	6	5	5'- 3"	1W502	STR												
	7	5	2'- 11"	1W503	STR												
♦ ♦	12	5	7'- 0"	1W504	STR												
	4	5	4'- 3"	1W505	17			2'- 11"	1'- 4"								
♦	18	5	6'- 9"	1W506	STR												
	4	5	3'- 4"	1W507	S10		1'- 6"	0'- 4"	1'- 6"								
	2	5	5'- 0"	1W508	22			0'- 9"	4'- 3"					2'- 9"		3'- 2"	
Wingwall 2																	
	10	5	10'- 10"	2W501	STR												
	10	5	9'- 3"	2W502	STR												
	11	5	2'- 11"	2W503	STR												
♦	16	5	7'- 0"	2W504	STR												
	8	5	4'- 3"	2W505	17			2'- 11"	1'- 4"								
♦	18	5	10'- 4"	2W506	STR												
	8	5	2'- 4"	2W507	S10		1'- 6"	0'- 4"	1'- 6"								
	2	5	8'- 1"	2W508	22			0'- 9"	7'- 4"					2'- 10"		6'- 10"	
Abut 2																	
	34	5	21'- 6"	2A501	STR												
	34	5	10'- 6"	2A502	17		3'- 0"	9'- 6"	3'- 0"								
	17	5	17'- 10"	2A503	17		6'- 2"	9'- 6"	6'- 2"								
	6	5	5'- 6"	2A504	STR												
♦	46	5	12'- 6"	2A505	STR												
	7	5	21'- 10"	2A506	17		6'- 2"	9'- 6"	6'- 2"								
♦	23	8	3'- 0"	2A801	STR												
♦	21	9	21'- 6"	2A901	STR												
Pier																	
♦	40	5	21'- 6"	1P501	STR												
♦ ♦	47	5	14'- 4"	1P502	STR												
	21	5	12'- 0"	1P503	S10		2'- 3"	1'- 6"	2'- 3"								
♦	16	5	8'- 0"	1P504	S10		2'- 3"	3'- 6"	2'- 3"								
	4	5	6'- 0"	1P505	S10		2'- 3"	1'- 6"	2'- 3"								
♦	27	5	4'- 0"	1P506	STR												
♦	23	8	3'- 0"	1P801	STR												
Abut 3																	
♦	23	5	6'- 3"	3A501	STR												
	16	5	2'- 6"	3A502	STR												
	18	5	15'- 6"	3A503	STR												
♦	17	5	5'- 7"	3A504	17		1'- 6"	2'- 7"	1'- 6"								
	16	5	8'- 7"	3A505	17		4'- 0"	0'- 7"	4'- 0"								
♦	10	8	3'- 0"	3A901	STR												
Path Abut 1																	
	9	5	16'- 6"	1PA501	STR												
	14	5	4'- 8"	1PA502	STR												
	17	5	6'- 8"	1PA503	STR												
♦	18	5	8'- 1"	1PA504	S10		6'- 6"	1'- 7"									
	12	5	15'- 6"	1PA505	STR												
	16	5	3'- 7"	1PA506	S10		1'- 6"	0'- 7"	1'- 6"								
	32	5	4'- 4"	1PA507	22		2'- 2"	2'- 2"									
Path Wingwall 1																	
	10	5	4'- 7"	1PW501	STR												
	5	5	5'- 3"	1PW502	STR												
	5	5	6'- 6"	1PW503	STR												
	5	5	7'- 10"	1PW504	S10		6'- 6"	1'- 4"									
	10	5	4'- 3"	1PW505	STR												
	6	5	3'- 4"	1PW506	S10		1'- 6"	0'- 4"	1'- 6"								
	2	5	5'- 9"	1PW507	22		3'- 7"	2'- 2"					2'- 0"		3'- 0"		

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
Path Wingwall 2																	
	10	5	4'- 7"	2PW501	STR												
♦	6	5	5'- 3"	2PW502	STR												
	5	5	6'- 6"	2PW503	STR												
	5	5	7'- 10"	2PW504	S10		6'- 6"	1'- 4"									
	10	5	4'- 3"	2PW505	STR												
	6	5	3'- 4"	2PW506	S10		1'- 6"	0'- 4"	1'- 6"								
	2	5	5'- 9"	2PW507	22		3'- 7"	2'- 2"					2'- 0"		3'- 0"		
Path Abut 2																	
	9	5	16'- 6"	2PA501	STR												
	12	5	4'- 8"	2PA502	STR												
	15	5	6'- 11"	2PA503	STR												
	16	5	7'- 6"	2PA504	S10		5'- 11"	1'- 7"									
	10	5	14'- 6"	2PA505	STR												
	16	5	3'- 7"	2PA506	S10		1'- 6"	0'- 7"	1'- 6"								
	24	5	4'- 4"	2PA507	22		2'- 2"	2'- 2"									
Path Wingwall 3																	
	10	5	6'- 8"	3PW501	STR												
♦	6	5	5'- 3"	3PW502	STR												
	5	5	6'- 11"	3PW503	STR												
	5	5	7'- 2"	3PW504	S10		6'- 11"	1'- 4"									
	12	5	5'- 2"	3PW505	STR												
	5	5	3'- 4"	3PW506	S10		1'- 6"	0'- 4"	1'- 6"								
	2	5	5'- 9"	3PW507	22		3'- 7"	2'- 2"					2'- 0"		3'- 0"		
Path Wingwall 4																	
	10	5	5'- 8"	4PW501	STR												
	5	5	5'- 3"	4PW502	STR												
	5	5	6'- 11"	4PW503	STR												
	6	6	7'- 3"	4PW504	S10		6'- 11"	1'- 4"									
♦	13	5	5'- 2"	4PW505	STR												
	6	5	3'- 4"	4PW506	S10		1'- 6"	0'- 4"	1'- 6"								
	2	5	5'- 9"	4PW507	22		3'- 7"	2'- 2"					2'- 0"		3'- 0"		
Concrete Walkway																	
♦	92	4	10'- 6"	CW401	STR												
♦	70	4	19'- 6"	CW402	STR												

~ NOTES ~

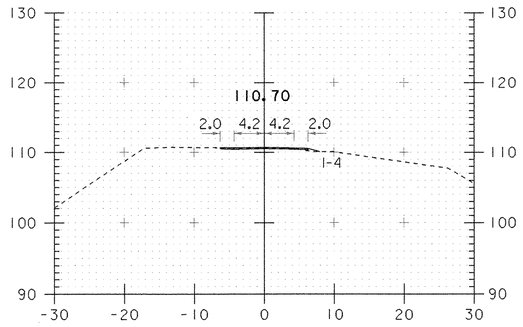
1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-90). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
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 "N" 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.



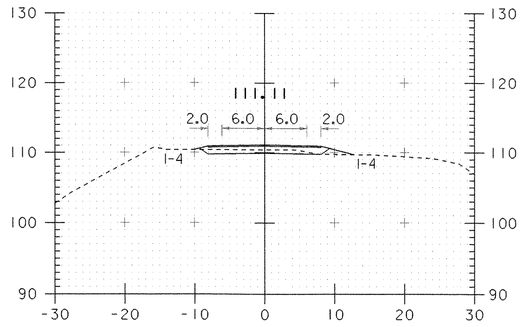
ASTM STANDARD REINFORCING BARS

UNIT BAR DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS OF ROUND SECTIONS DIAMETER INCHES	AREA INCHES²	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	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

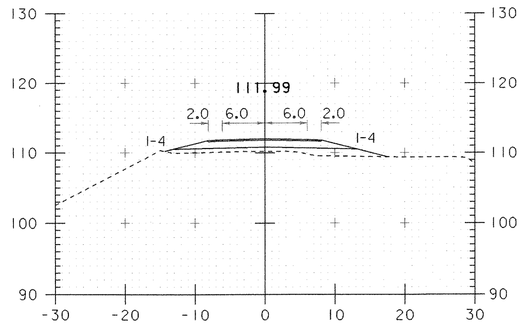
PROJECT NAME:	Burl.-Colc.
PROJECT NUMBER:	STP Bike(45)
FILE NAME:	ef132reinf.xls
PROJECT LEADER:	C. Keller
DESIGNED BY:	M.E.M.
REINFORCING STEEL SCHEDULE SHEET #1	
PLOT DATE:	10/23/2002
DRAWN BY:	M.E.M.
CHECKED BY:	J.D.G.
SHEET	89 OF 97



2+20
Begin Subbase Taper

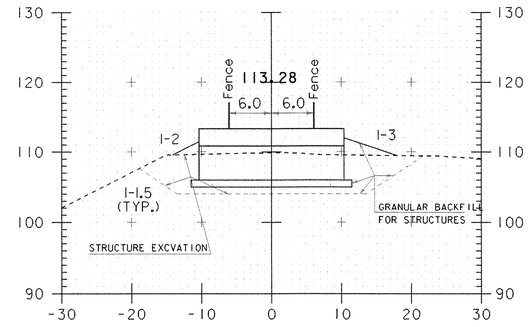


2+50

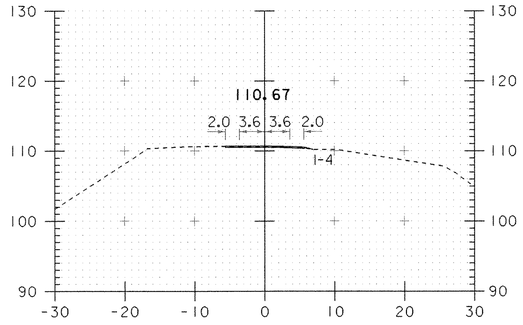


2+80

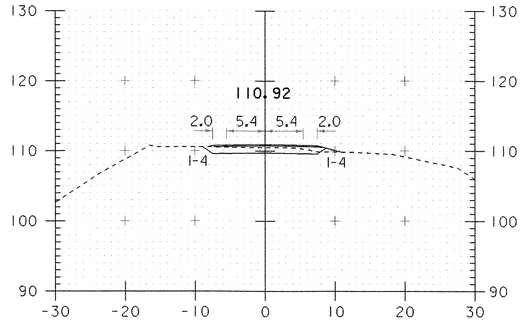
2+85
Begin Fence Lt. & Rt.



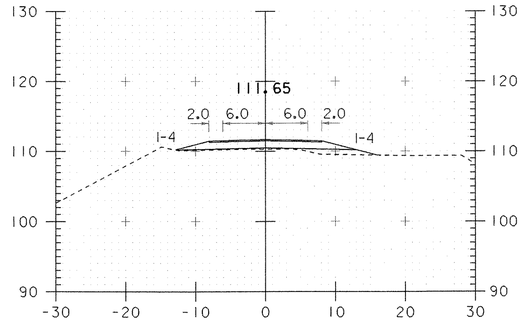
3+09
Stop Path
Begin Bridge



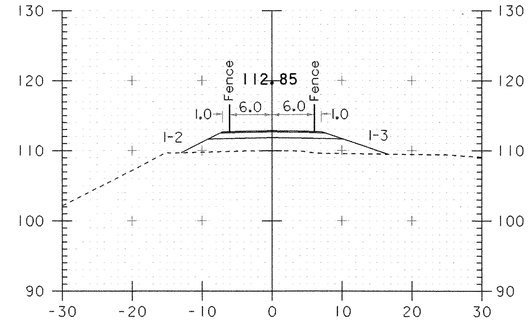
2+10



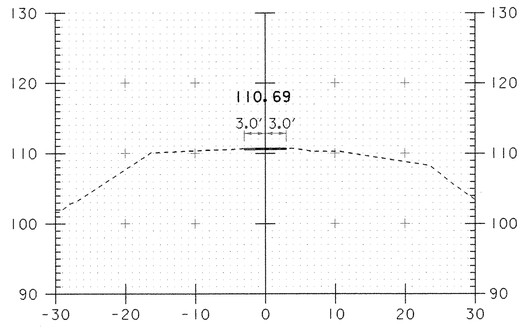
2+40
Begin Full Depth Subbase



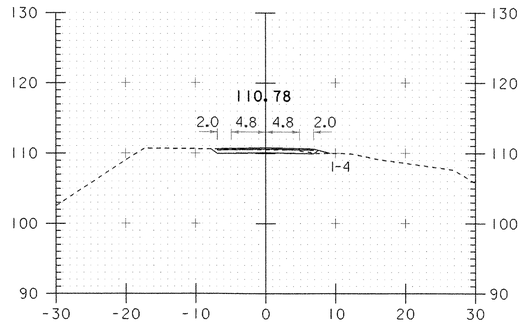
2+70



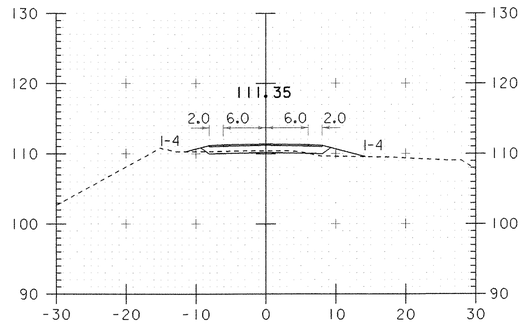
3+00



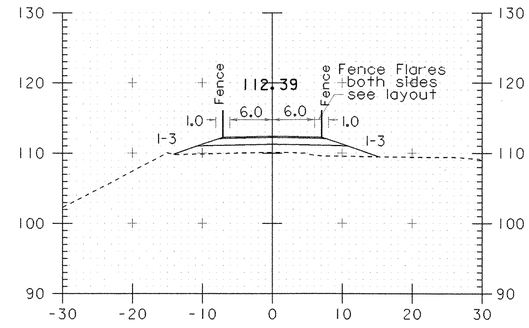
2+00
Begin Pavement Removal



2+30



2+60



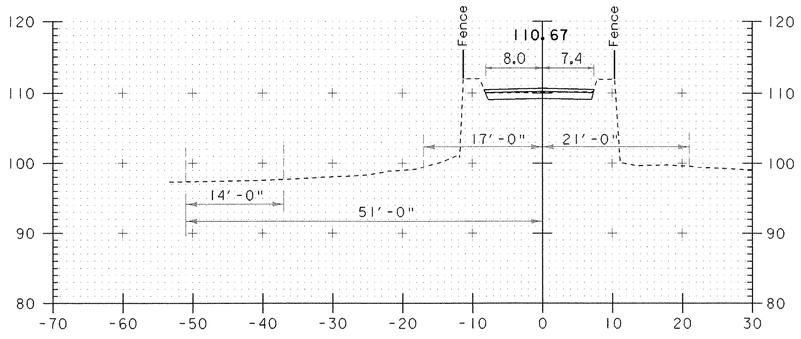
2+90

2+00 - 3+09

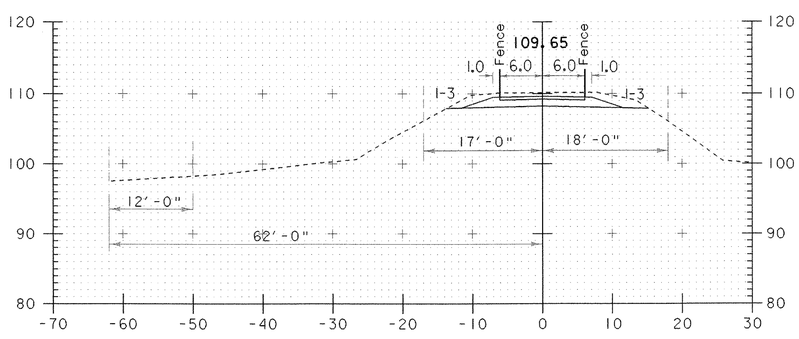
PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01fl32/sfl32xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sfl32xsl.i

PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 70 OF 87

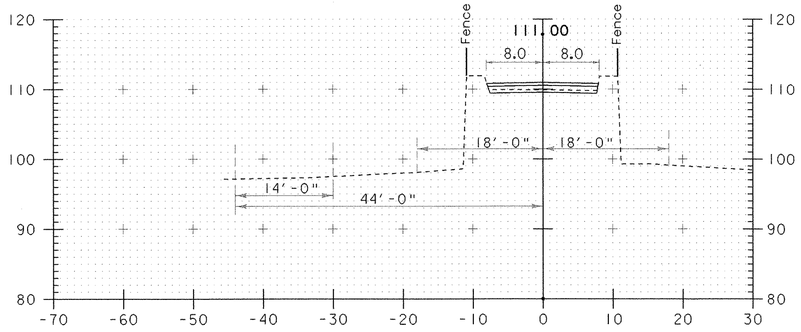


8+90

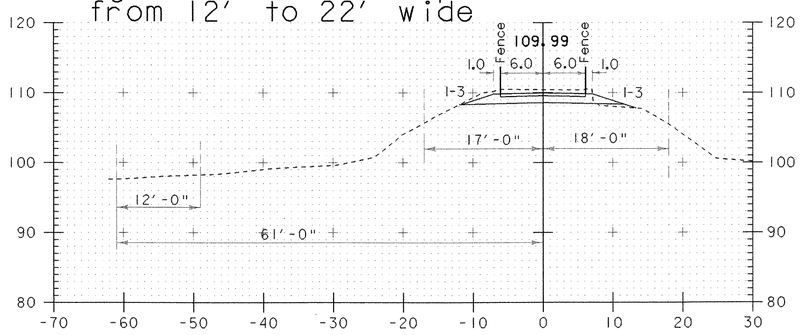


9+20

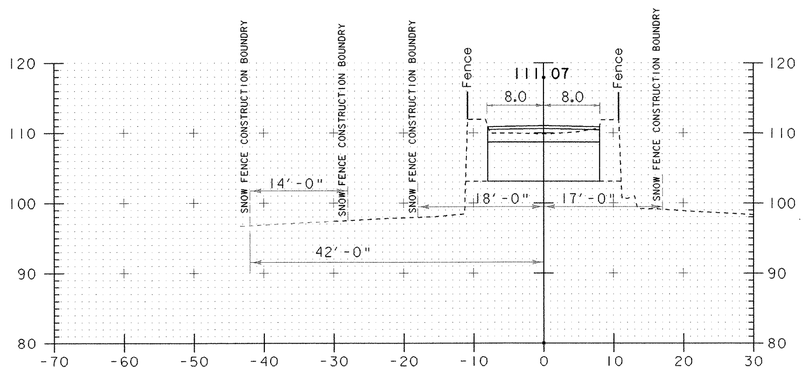
9+20
Begin Path Width Taper
from 12' to 22' wide



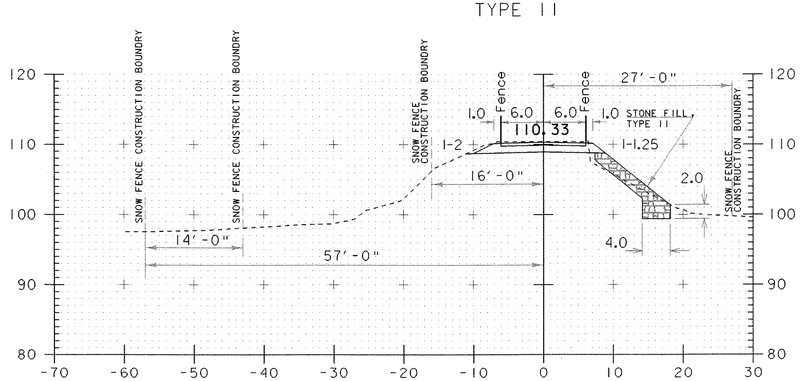
8+80



9+10 STA. 9+08 END STONE FILL, TYPE II



8+75

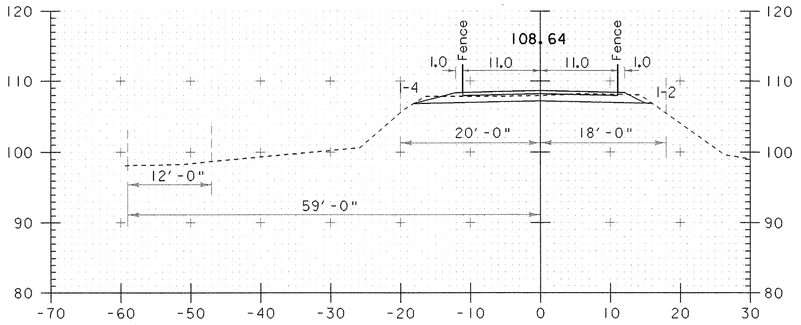


9+00 STA. 8+93 BEGIN STONE FILL, TYPE II

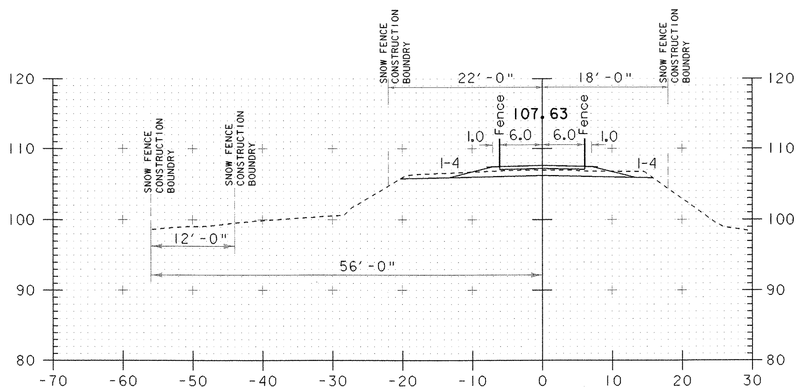
8+75 - 9+20

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xs2.i	SHEET 71 OF 87



9+50

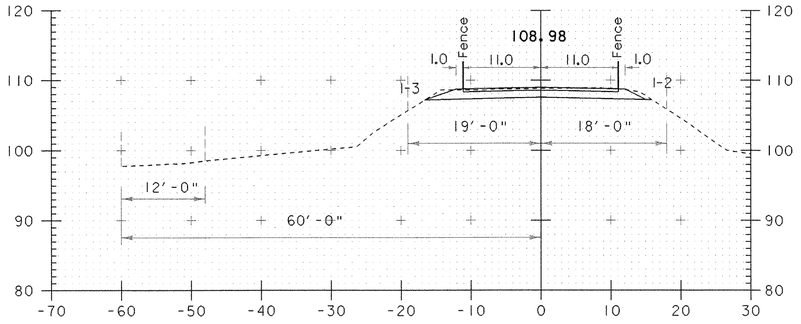


9+80

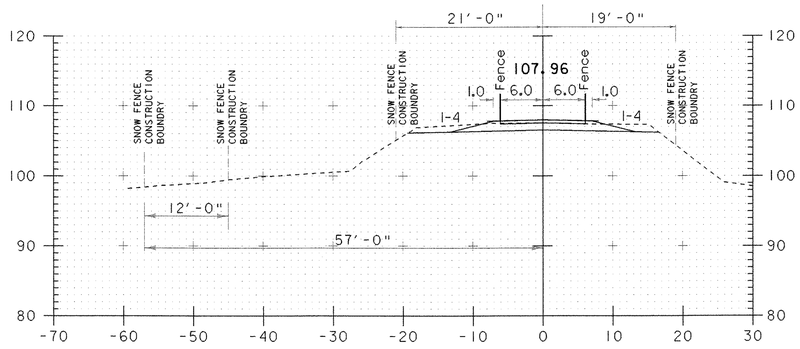
9+50

End 22' Wide Path

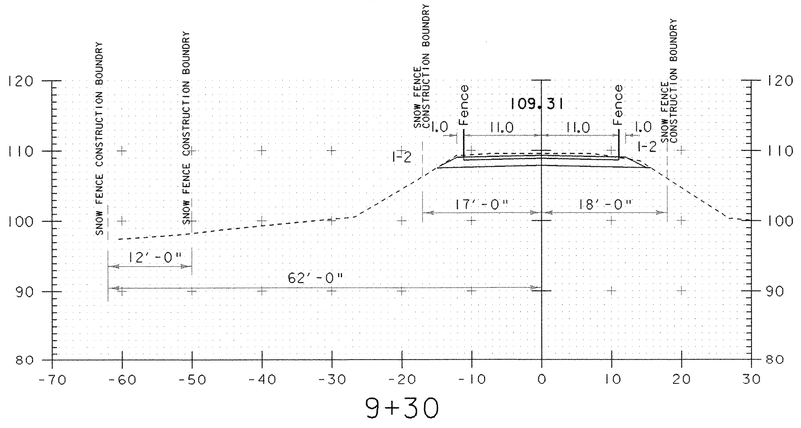
Begin Taper 22' to 12' wide



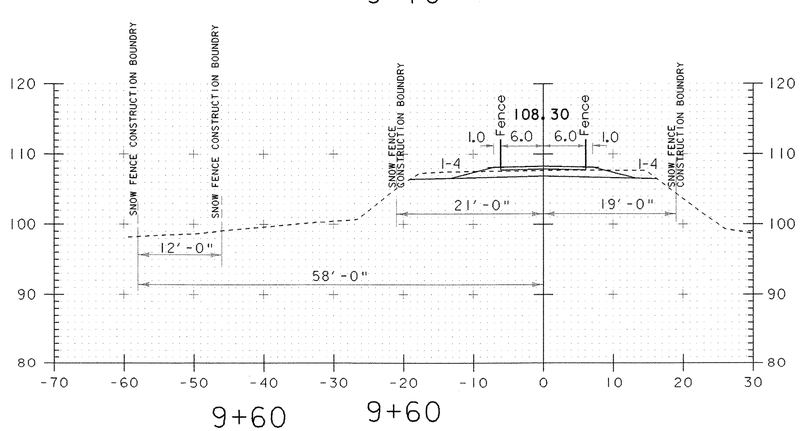
9+40



9+70



9+30



9+60

9+60

End Width Taper

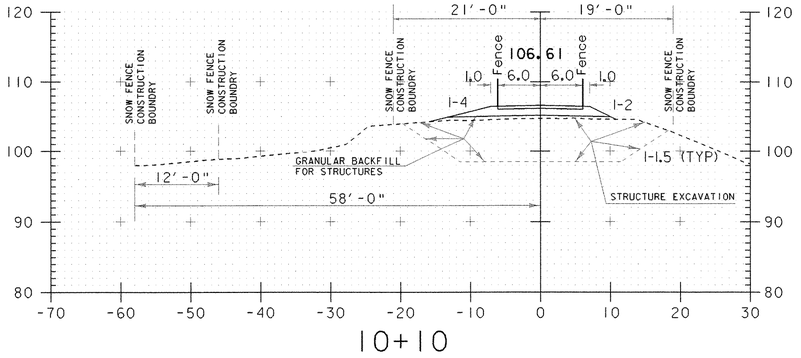
Resume 12' Wide Path

9+30 - 9+80

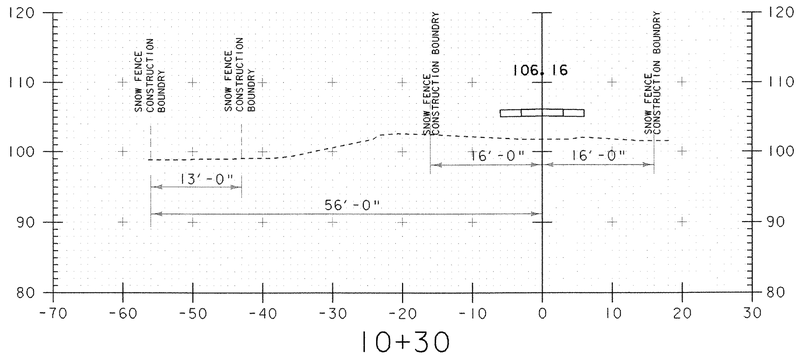
PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf132xs3.1

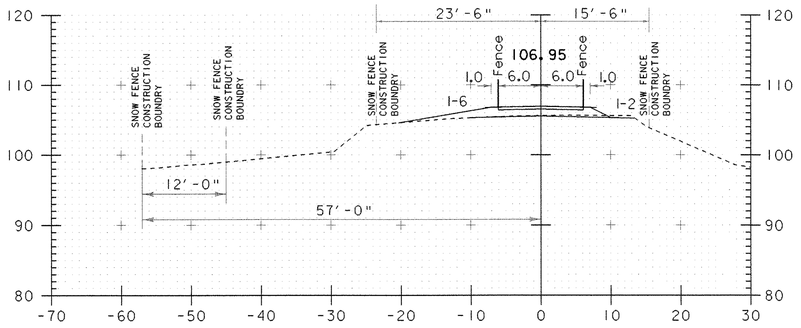
PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 72 OF 87



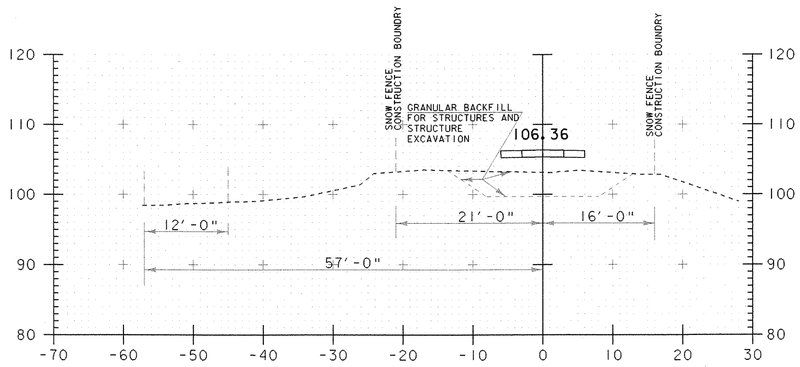
10+10



10+30

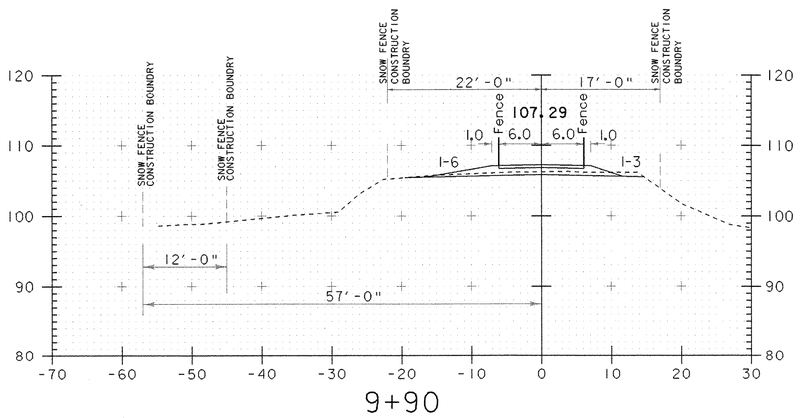


10+00

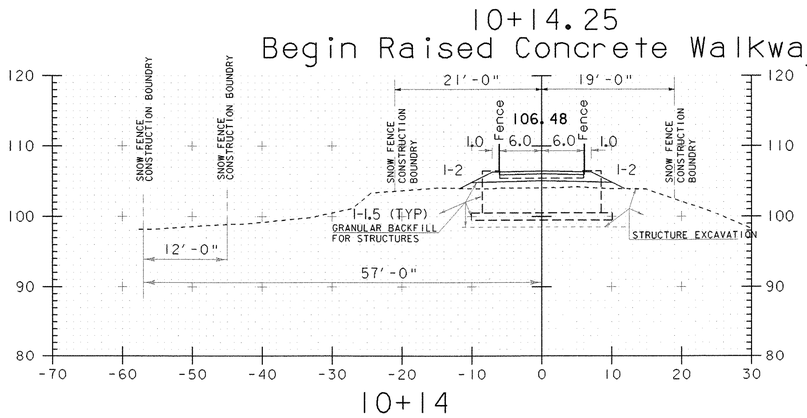


10+20

10+14.25
Begin Raised Concrete Walkway



9+90



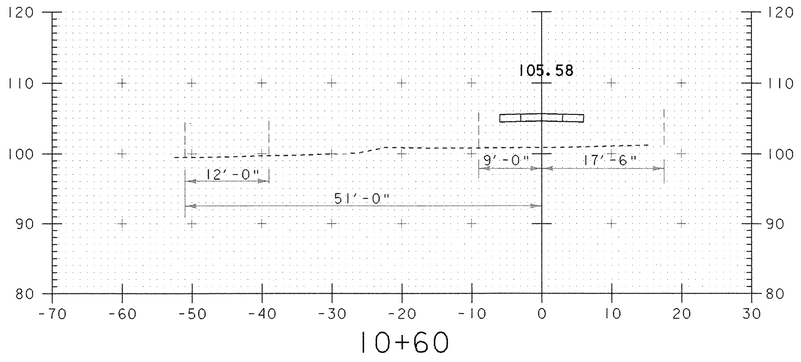
10+14

9+90 - 10+30

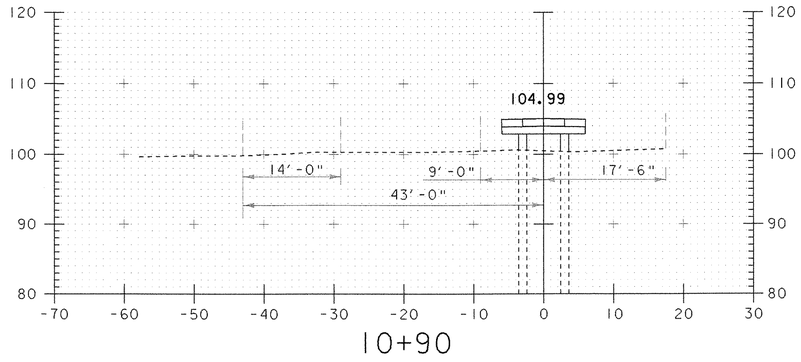
PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf132xs4.i

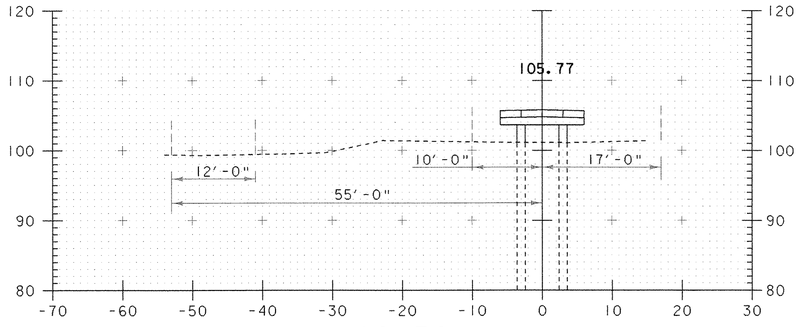
PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 73 OF 87



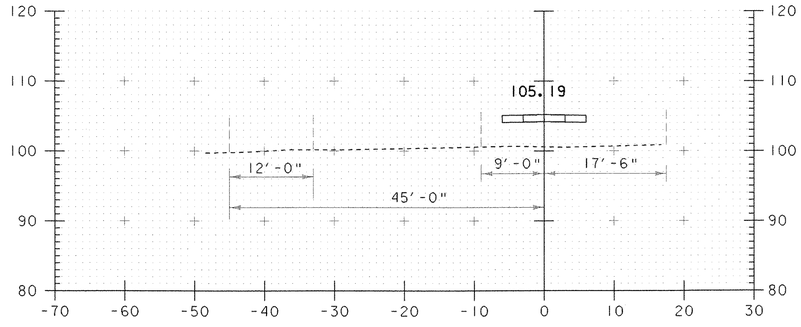
10+60



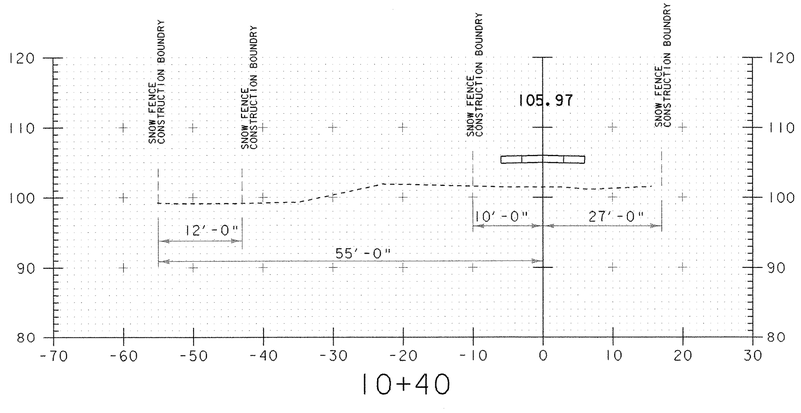
10+90



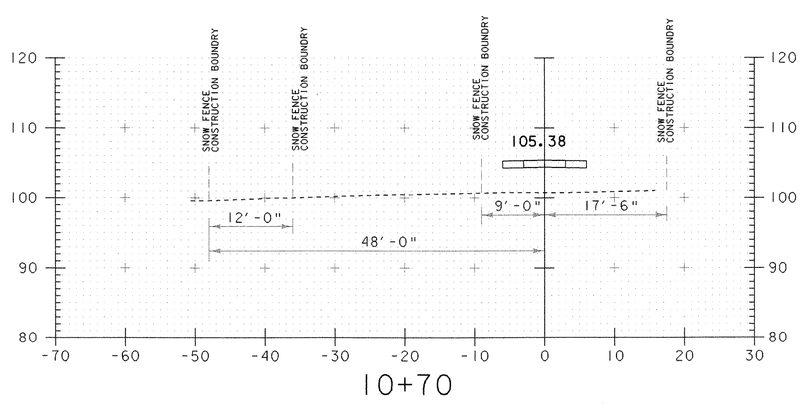
10+50



10+80



10+40

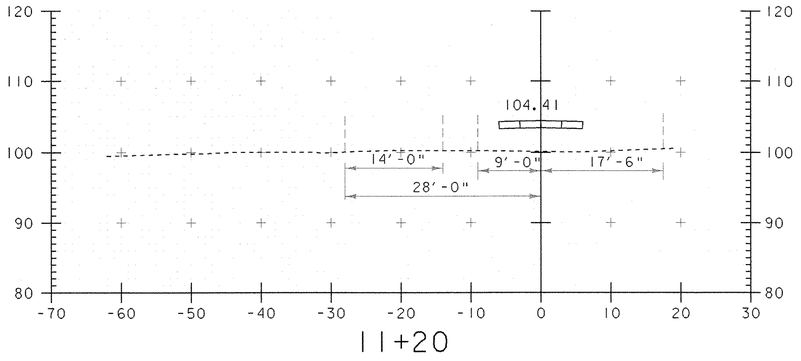


10+70

10+40 - 10+90

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xs5.i	SHEET 74 OF 87



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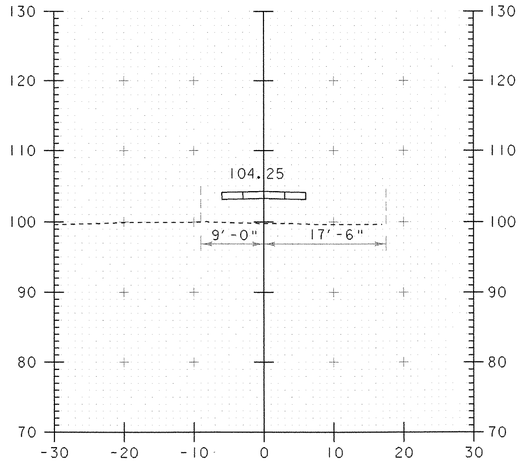

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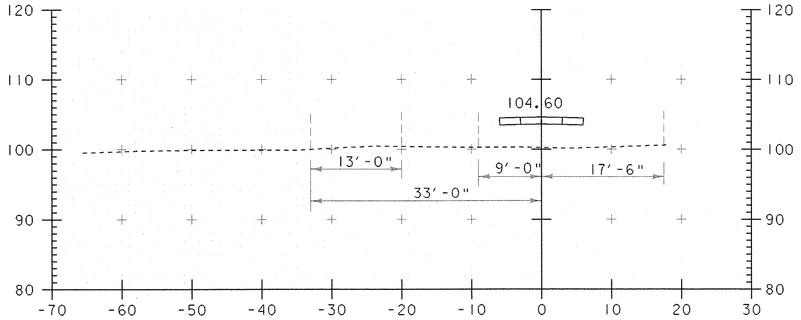

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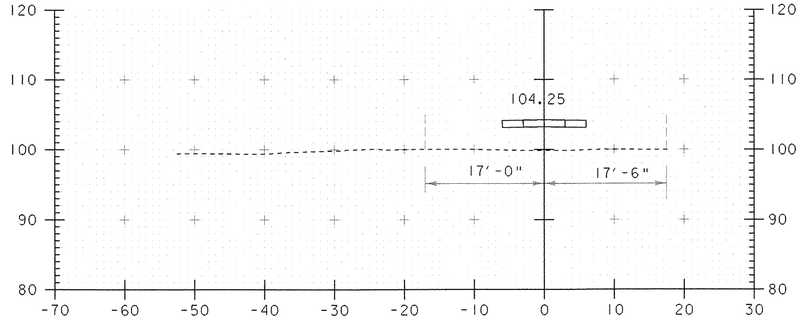

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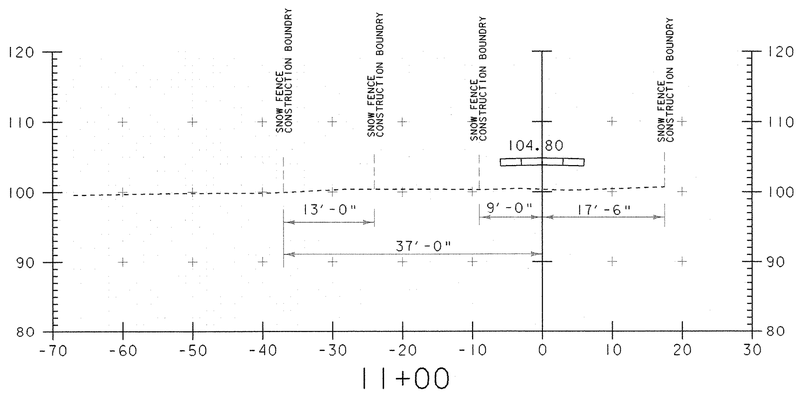

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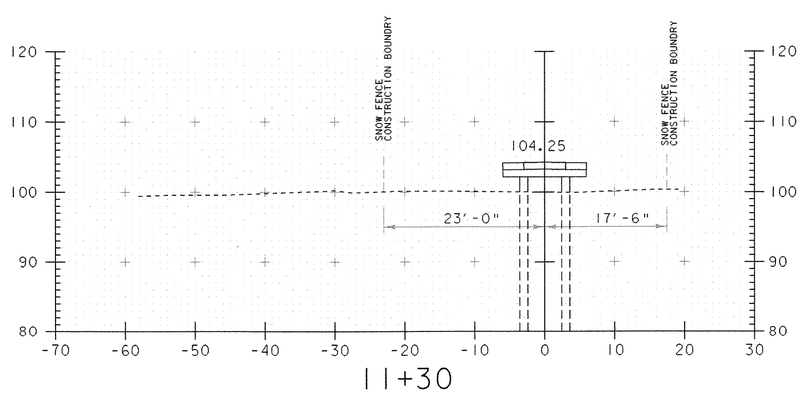


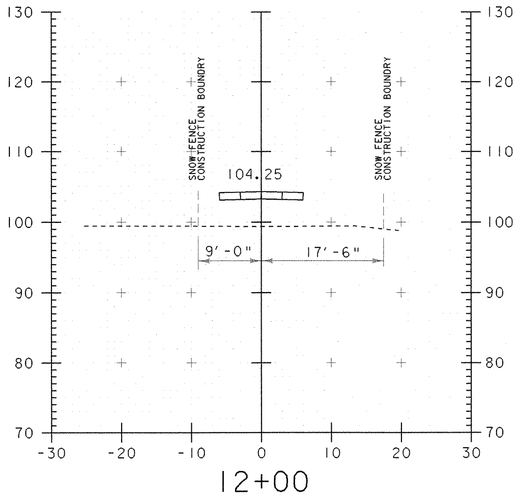
11+30

11+00 - 11+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf132xs6.i

PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 75 OF 87



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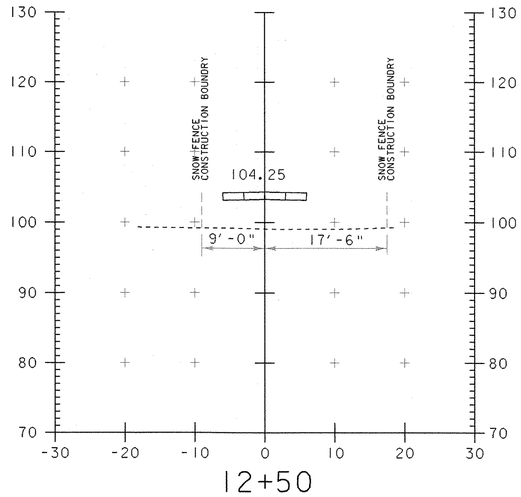

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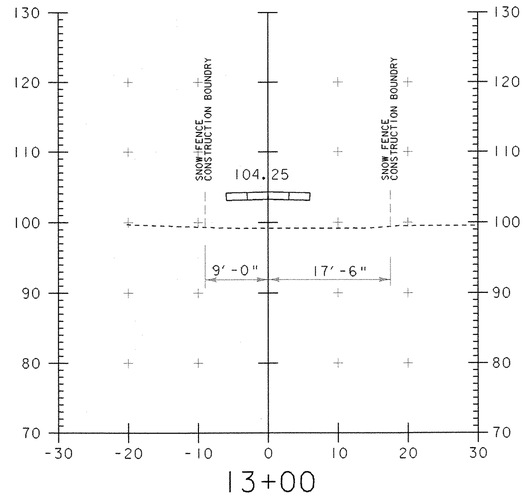

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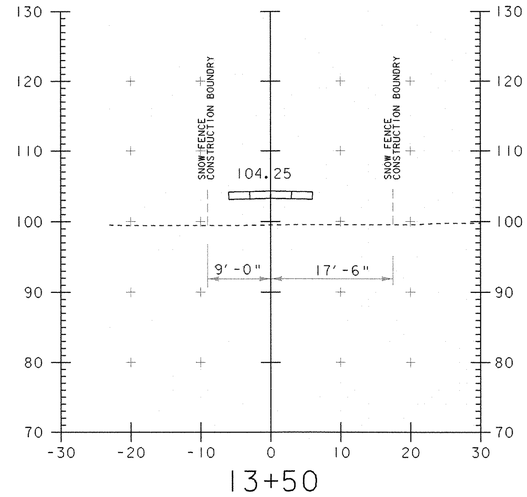

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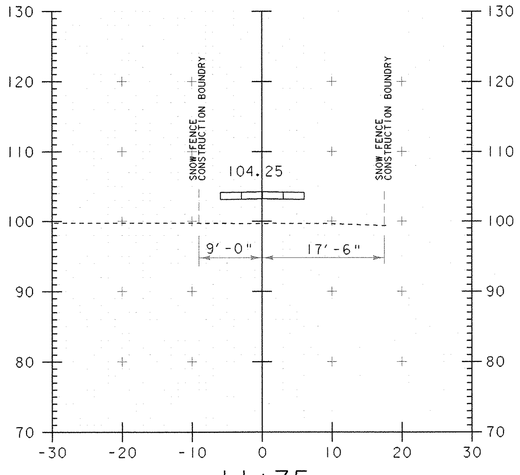

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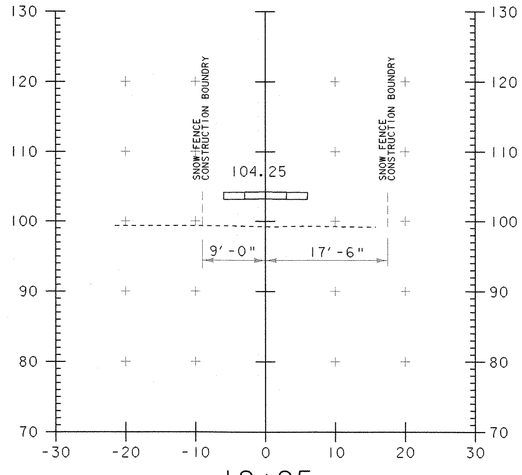

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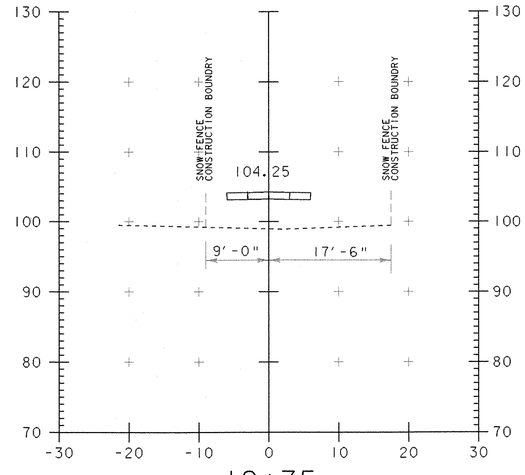

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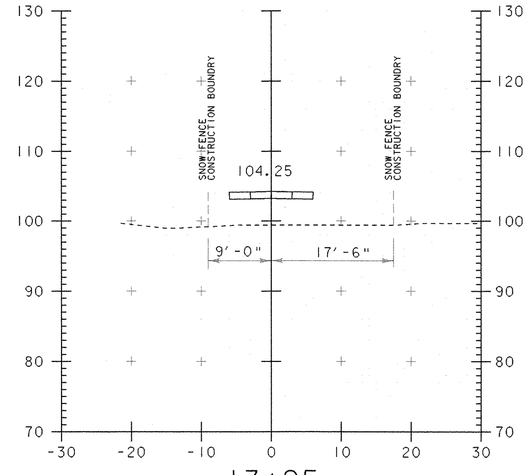
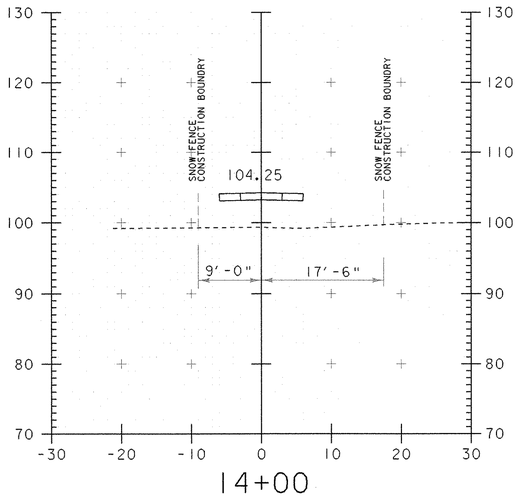


13+25

11+75 - 13+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xs7.i	SHEET 76 OF 87



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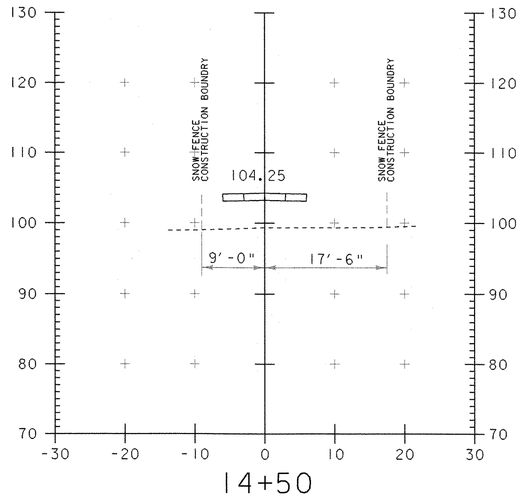

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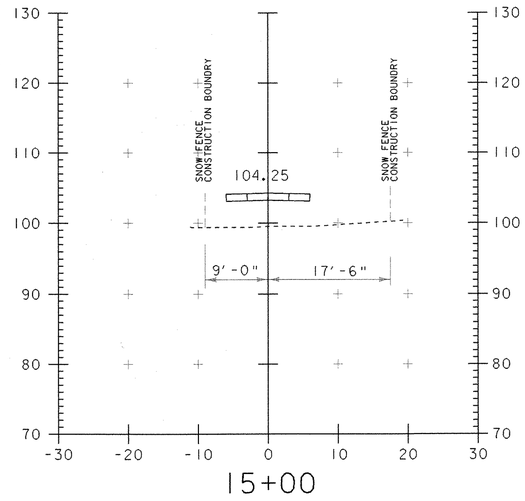

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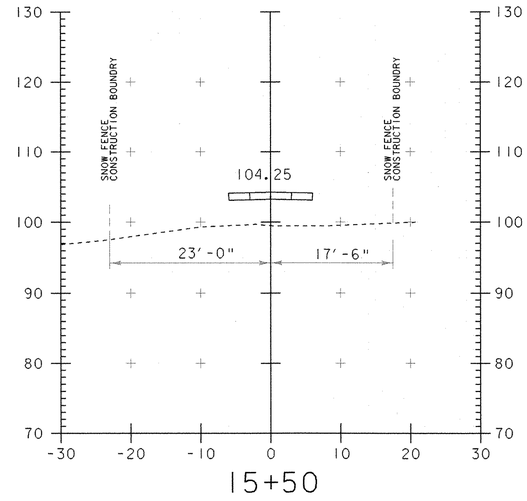

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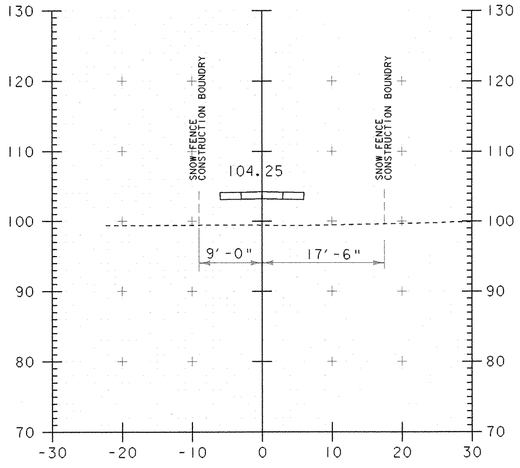

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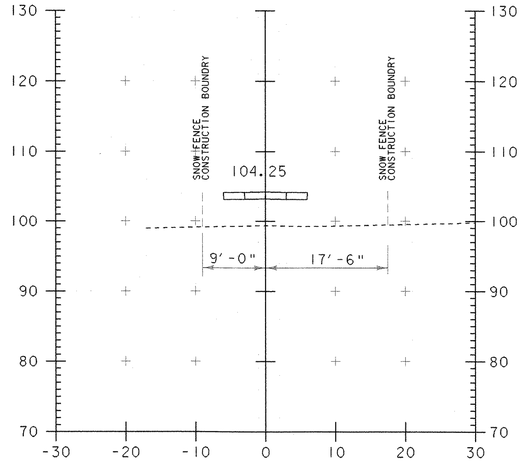

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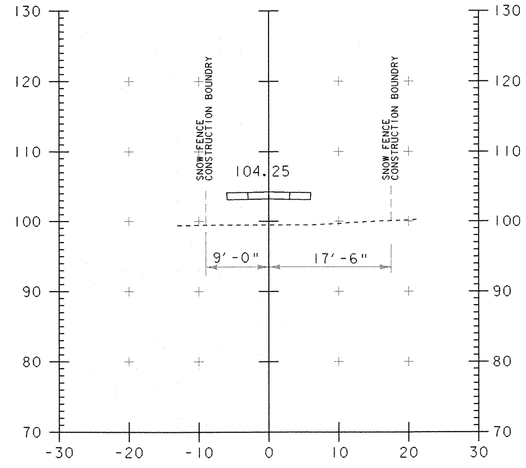

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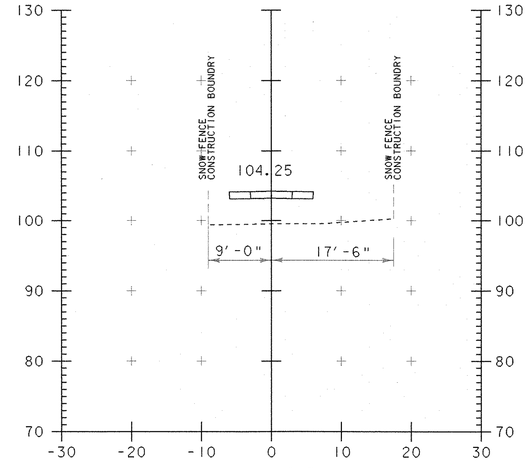
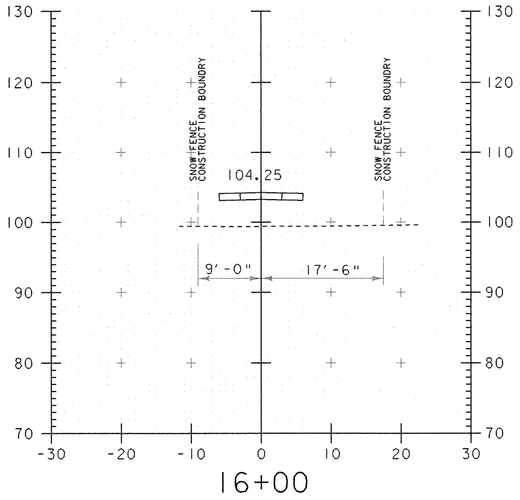


15+25

13+75 - 15+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xs8.1	SHEET 77 OF 87



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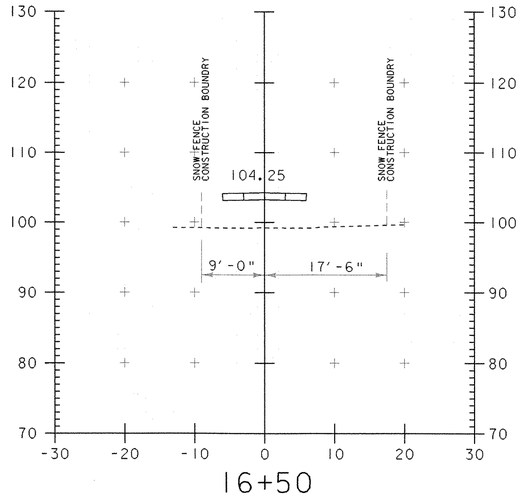

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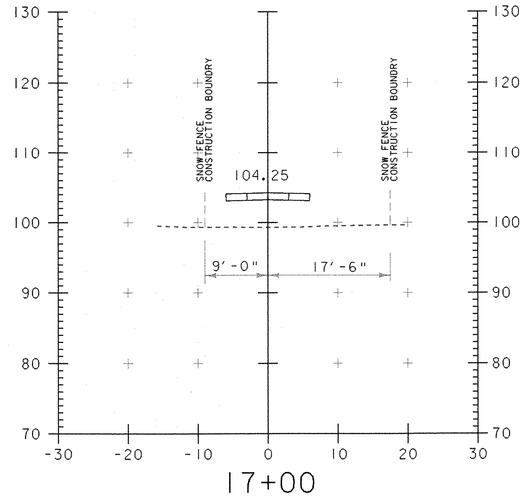

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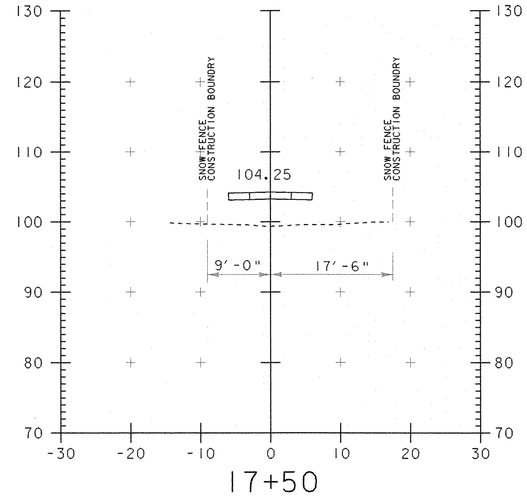

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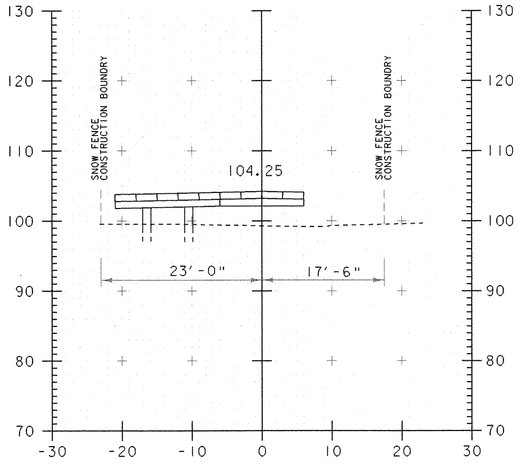

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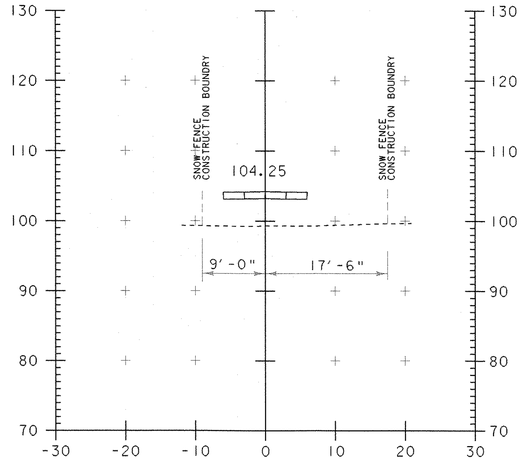

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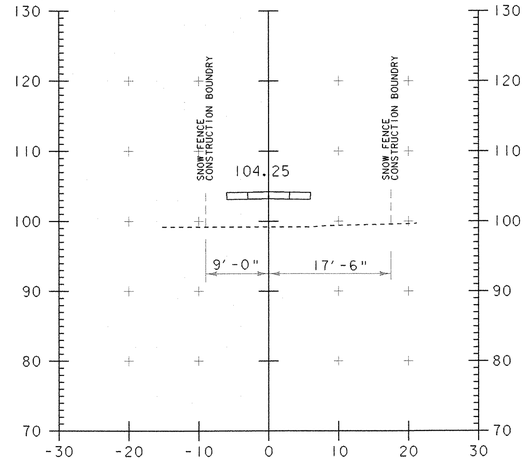

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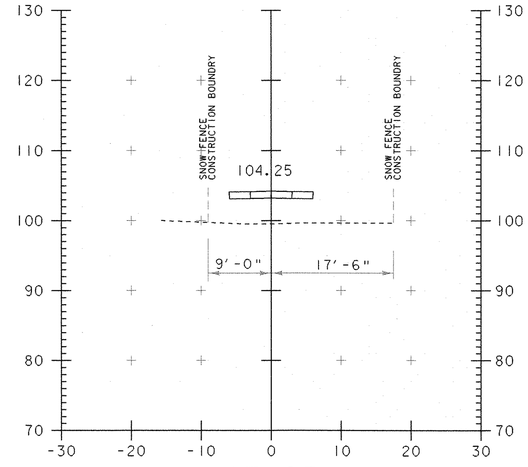
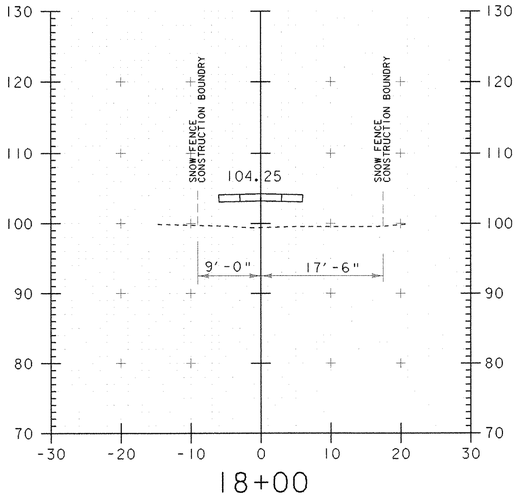


17+25

15+75 - 17+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xs9.i	SHEET 78 OF 87



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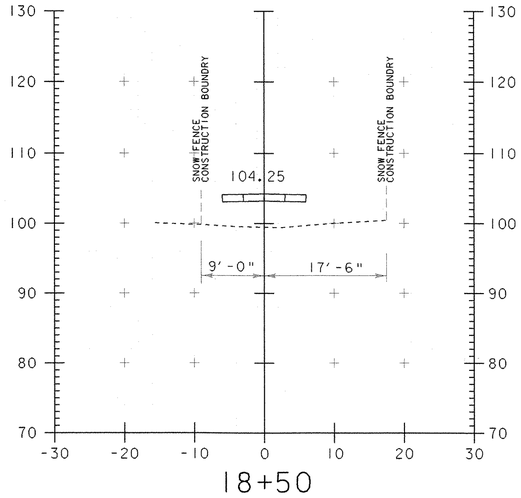

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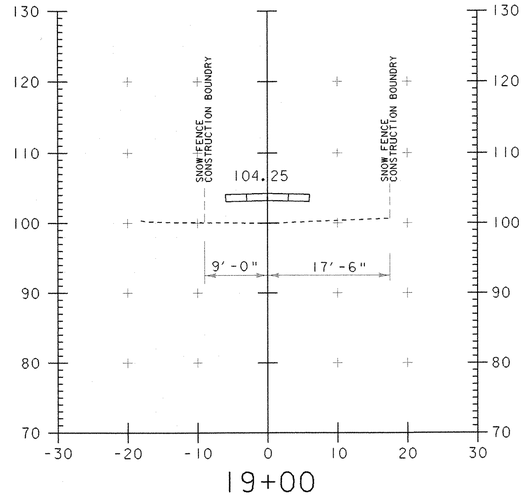

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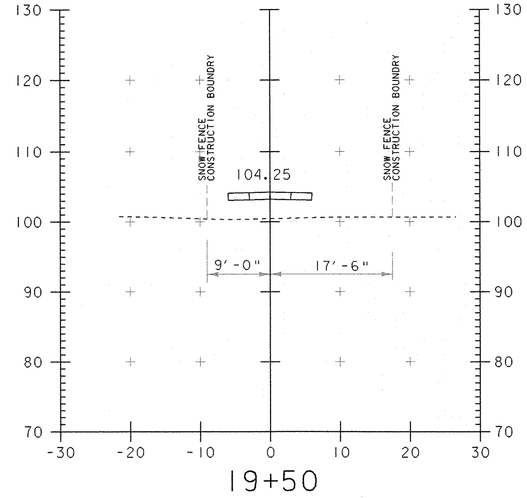

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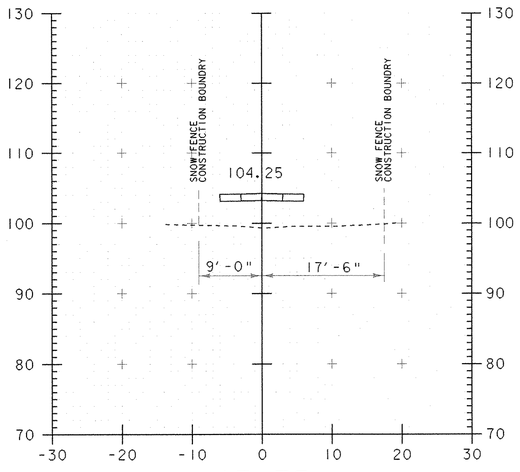

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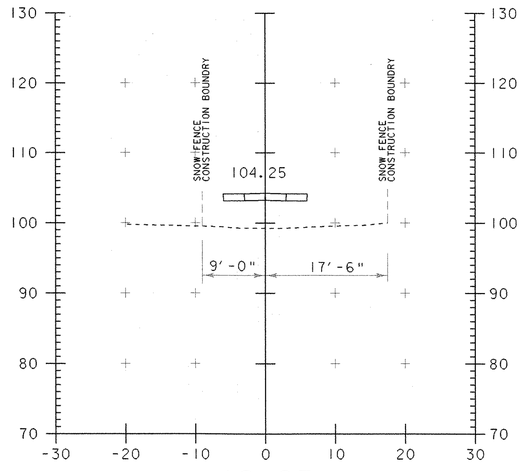

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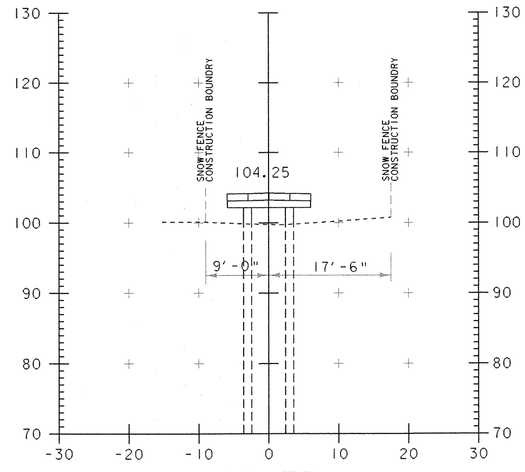

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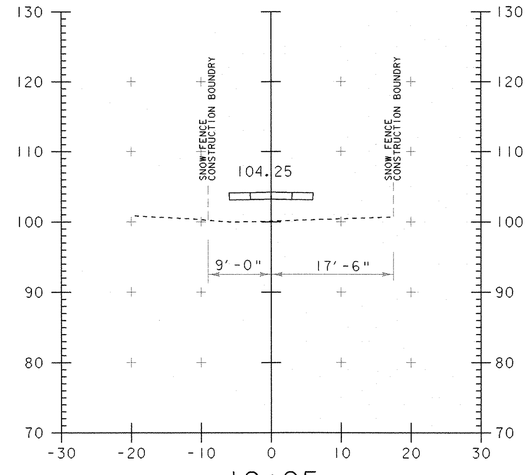


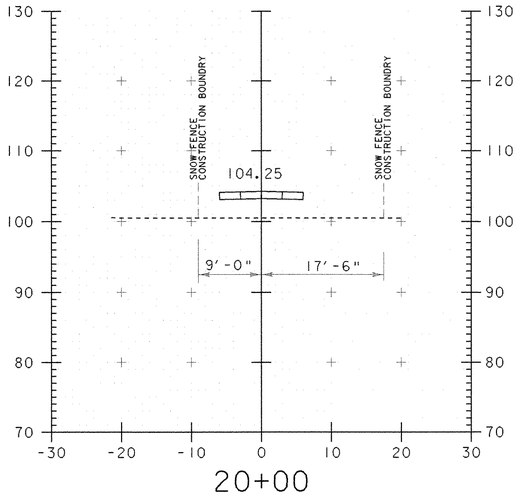
19+25

17+75 - 19+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf132xsl0.1

PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 79 OF 87



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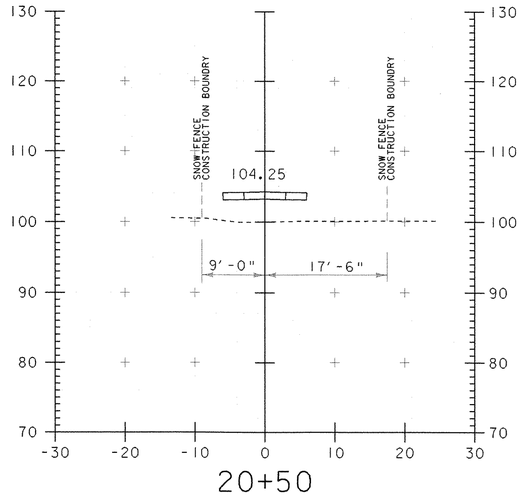

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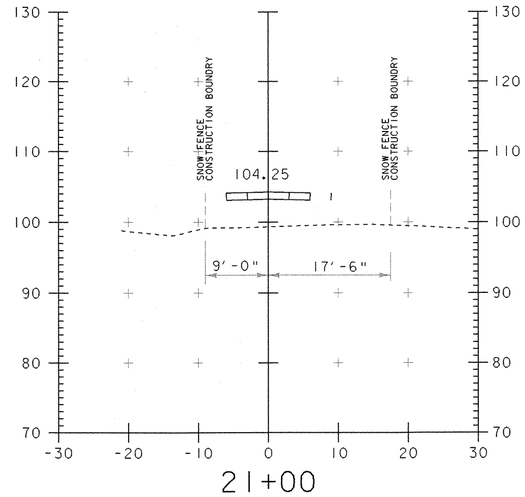

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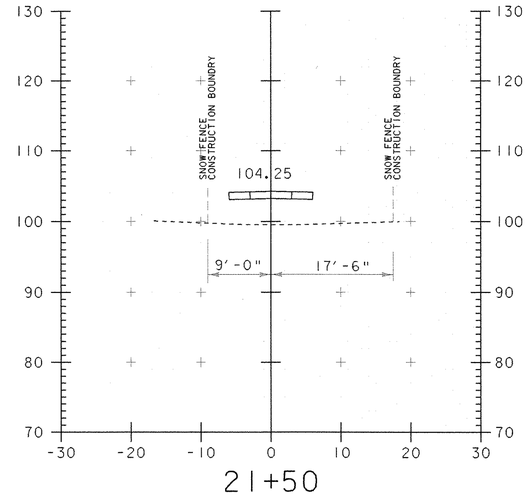

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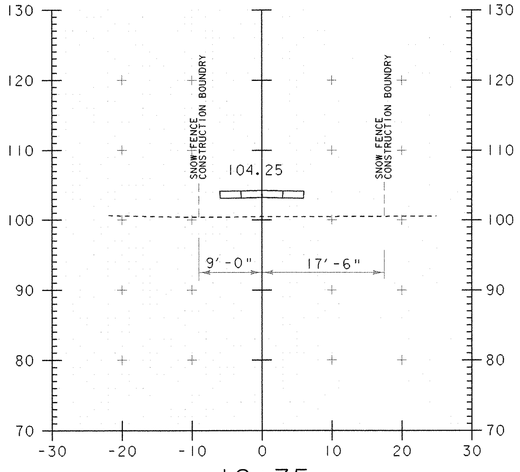

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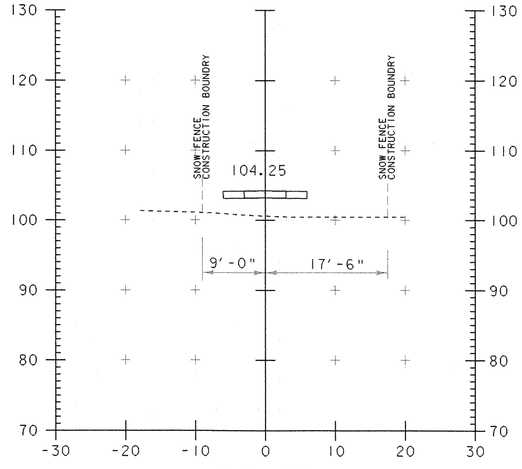

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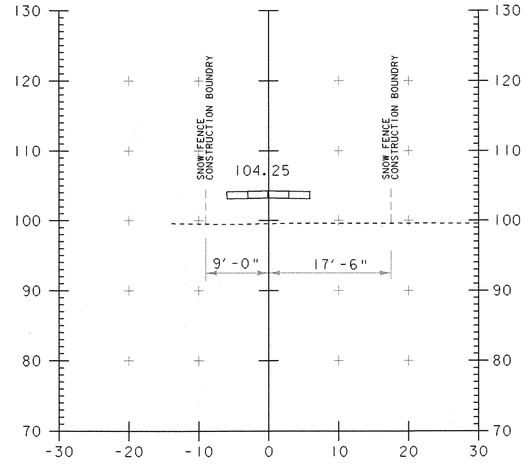

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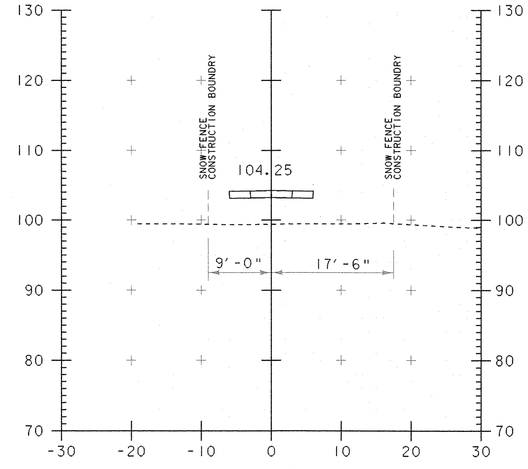
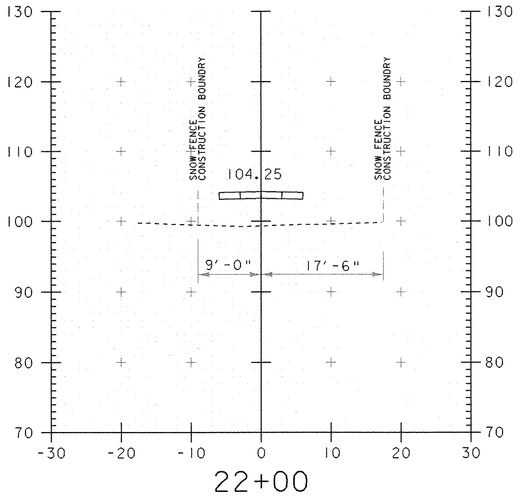


21+25

19+75 - 21+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xsll	SHEET 80 OF 87



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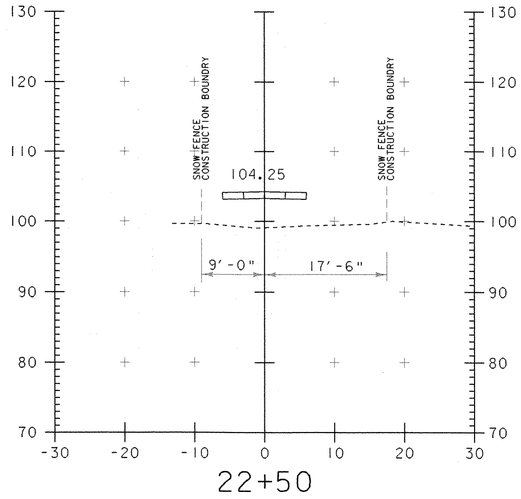

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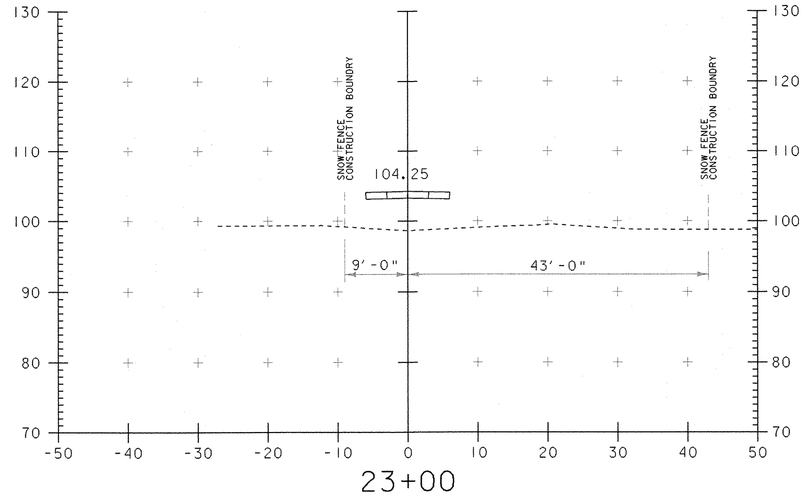

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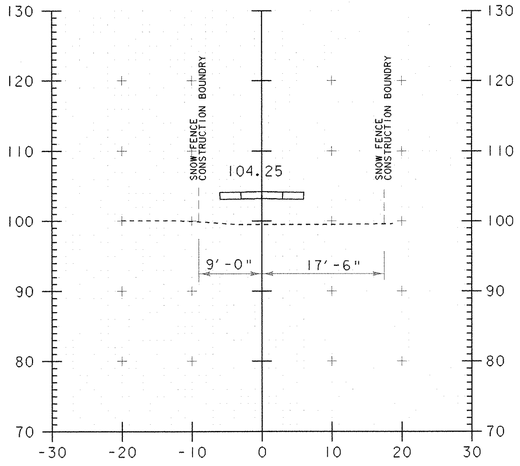
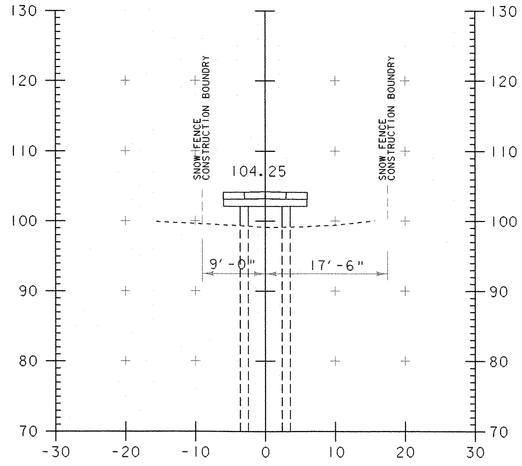
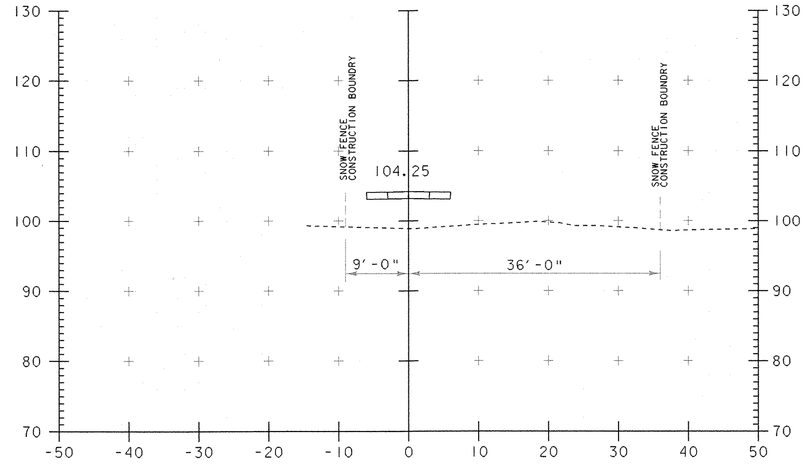


21+75



22+25



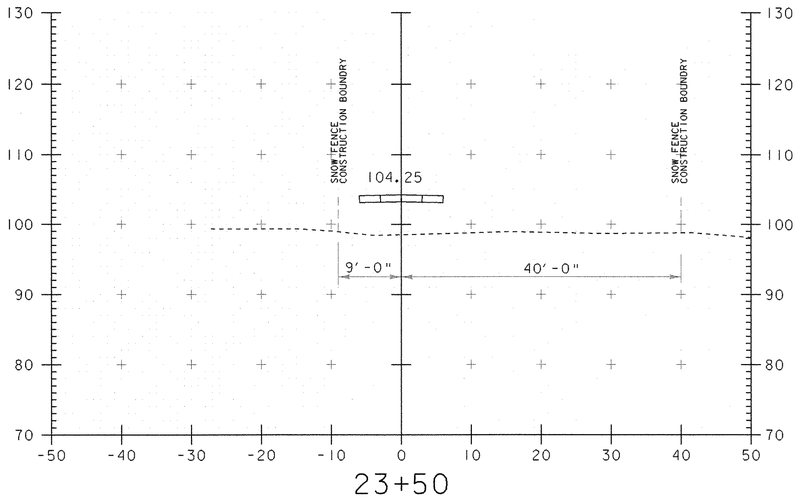
22+75

21+75 - 23+00

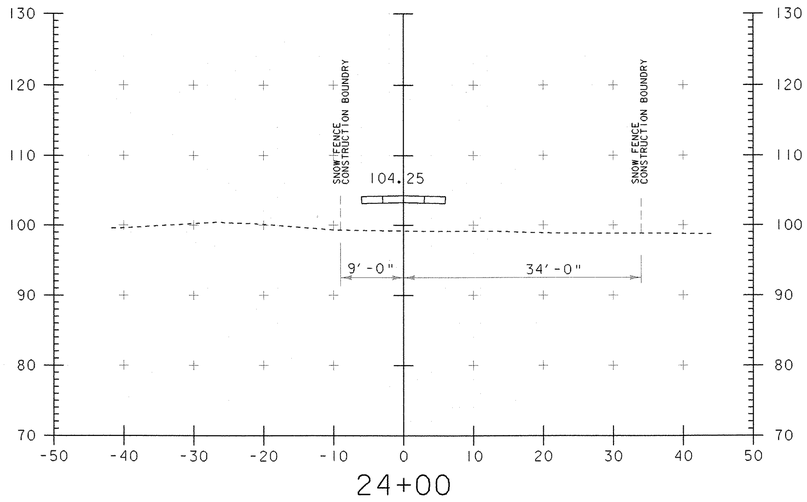
PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf132xsl2.1

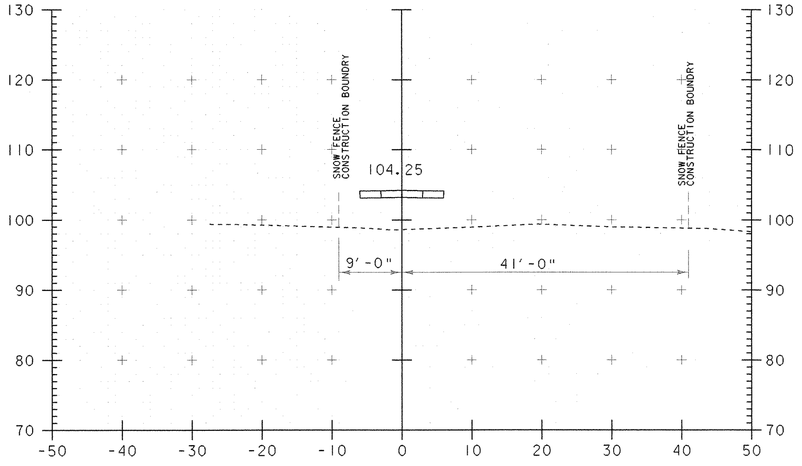
PLOT DATE: 15-NOV-2002
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 81 OF 87



23+50



24+00



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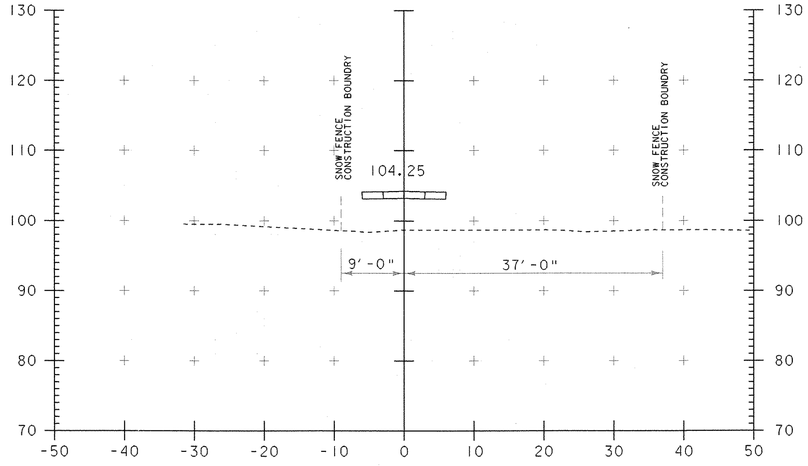
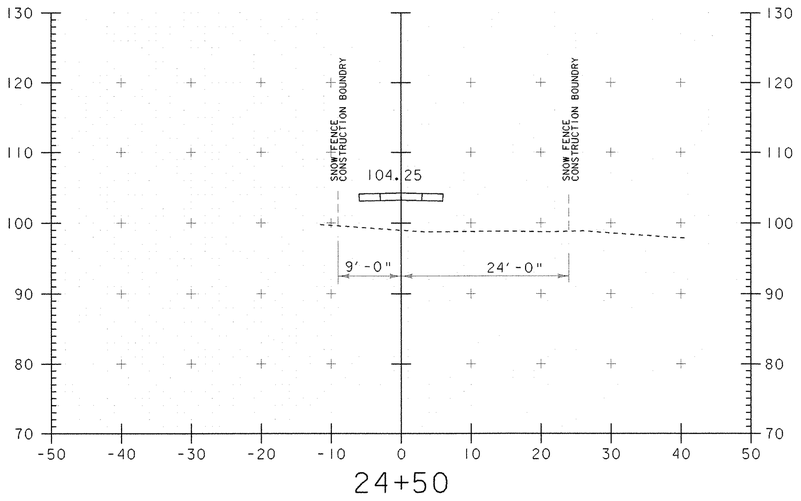


23+75

23+25 - 24+00

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01fl32/sfl32xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sfl32xsl3.i	SHEET 82 OF 87



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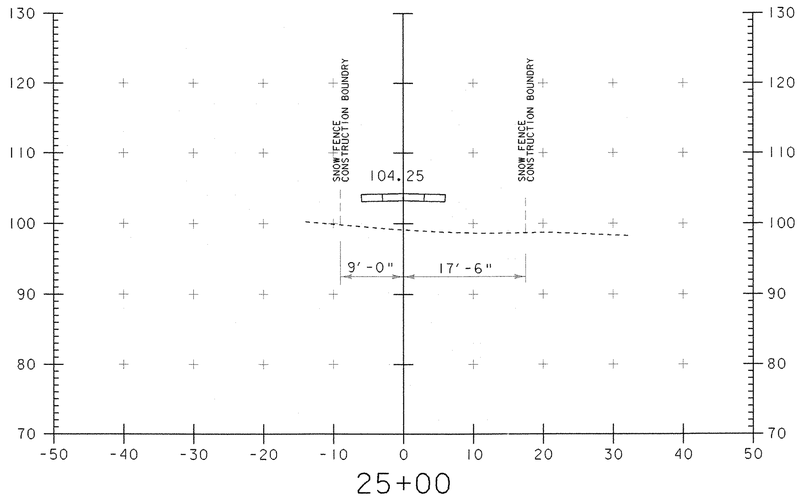

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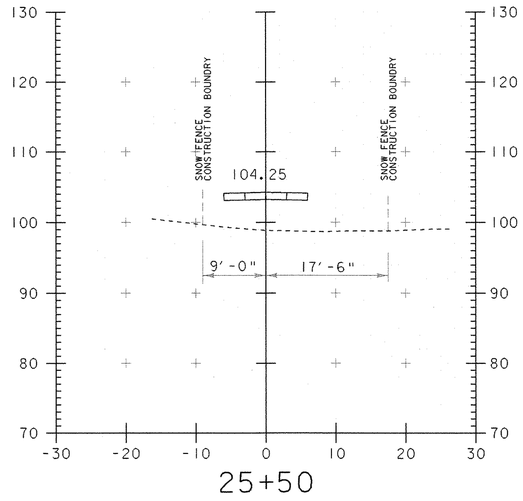
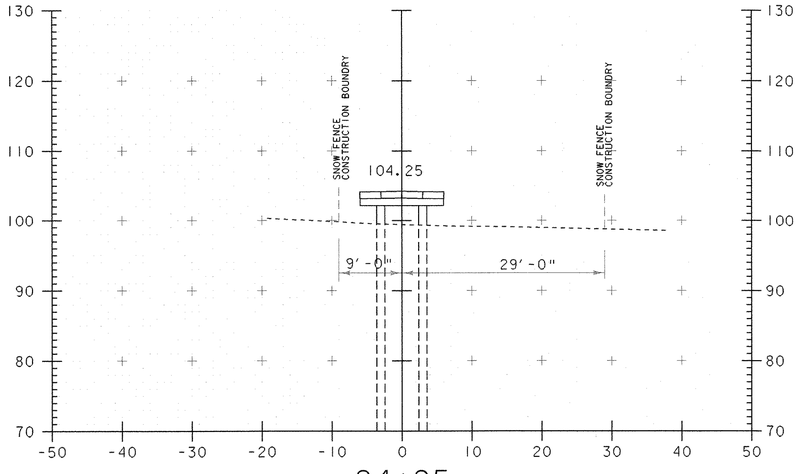


25+50



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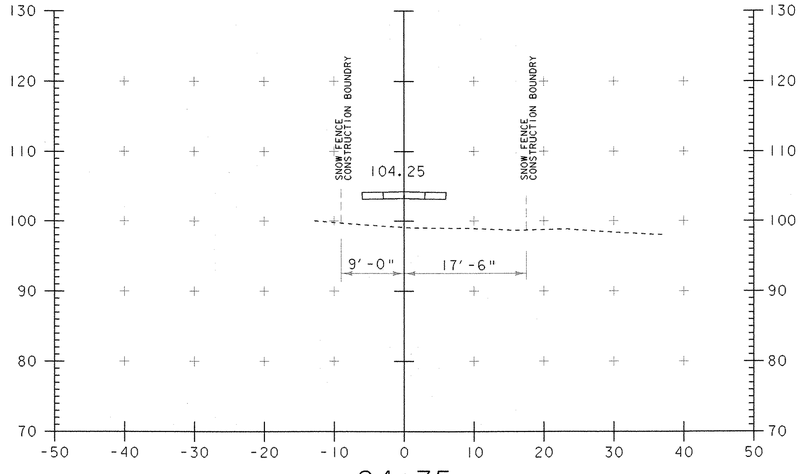
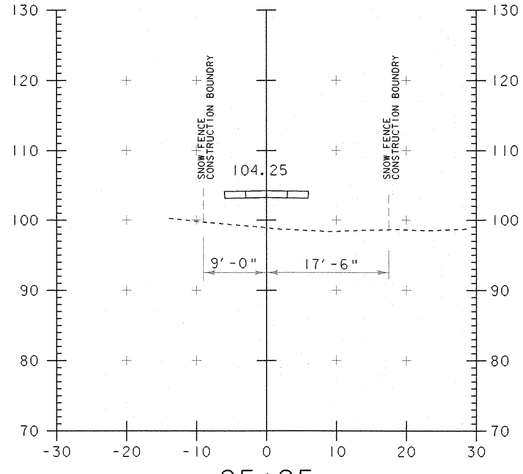


24+75

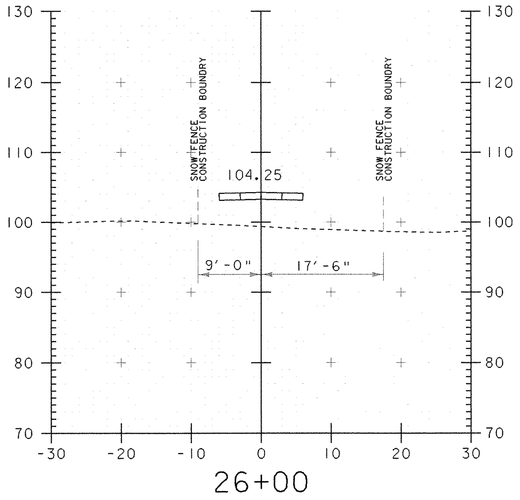


25+25

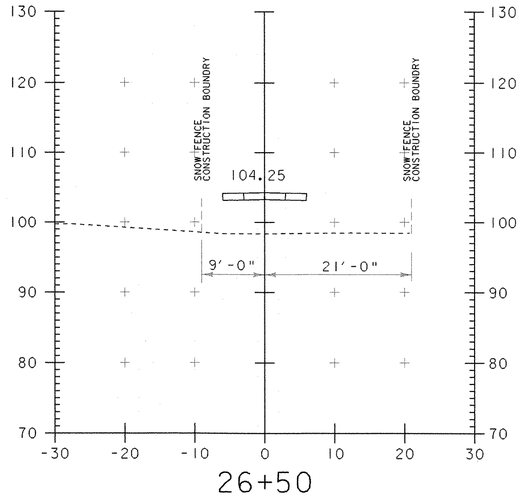
24+25 - 25+50

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

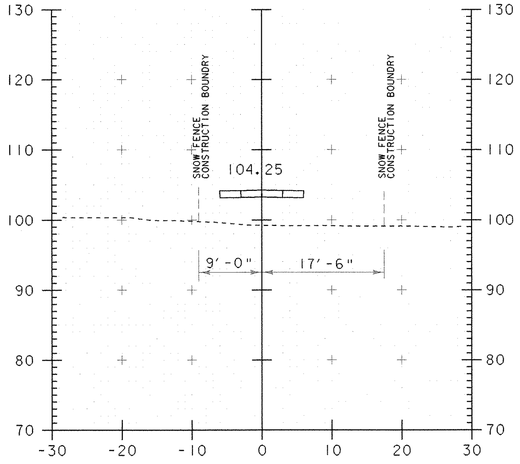
FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xsl4.i	SHEET 83 OF 87



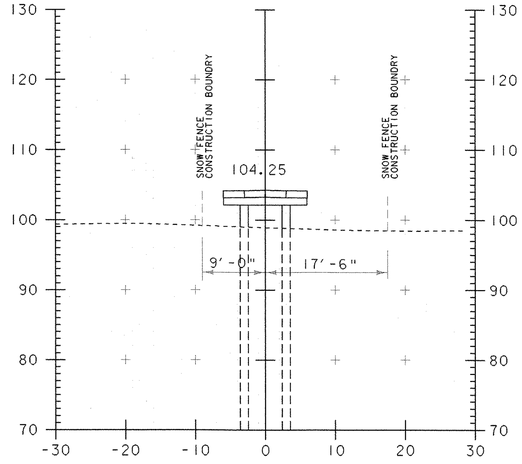
26+00



26+50



25+75

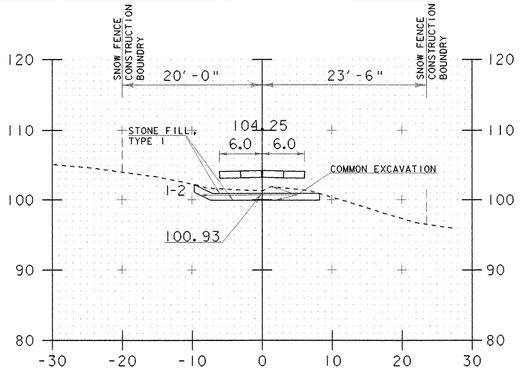


26+25

25+75 - 26+50

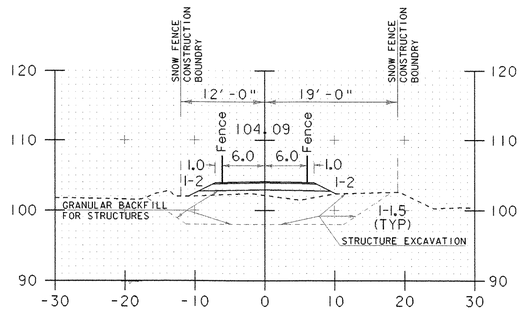
PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xsl5.i	SHEET 84 OF 87



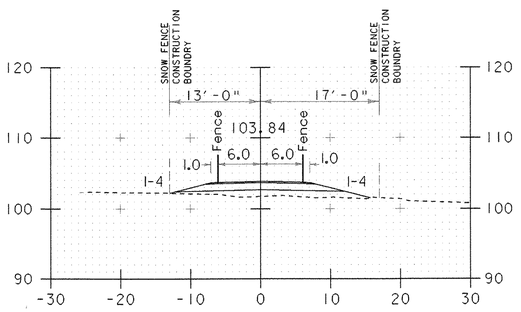
26+80

Sta. 26+70 BEGIN COMMON EXCAVATION
BEGIN STONE FILL TYPE I



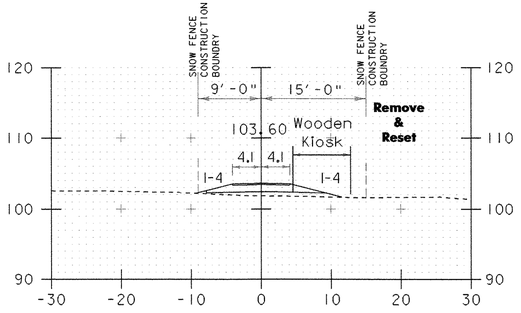
27+10

Sta. 27+05 END STONE FILL TYPE I

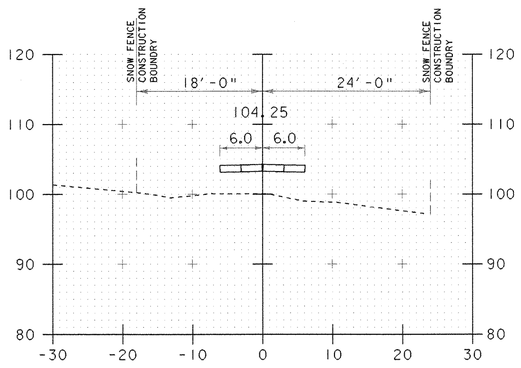


27+40

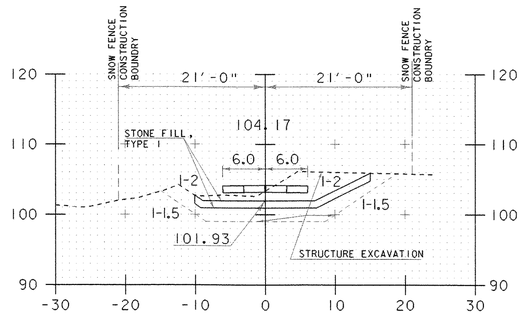
End Fence Lt. & Rt.
Begin Path Width Taper



27+70

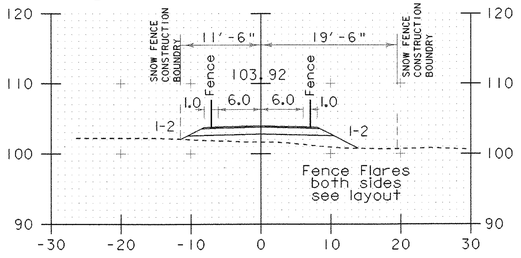


26+70

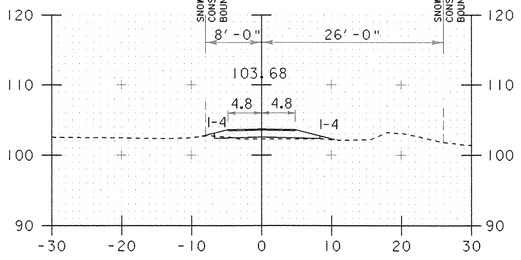


27+00

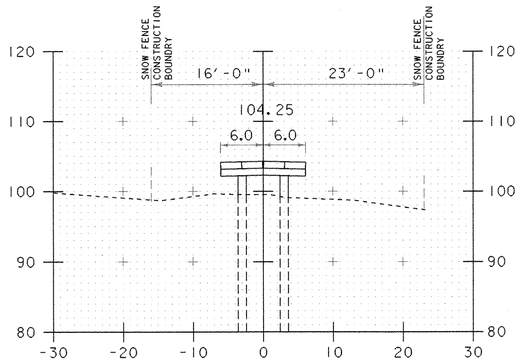
Sta. 27+00 END COMMON EXCAVATION



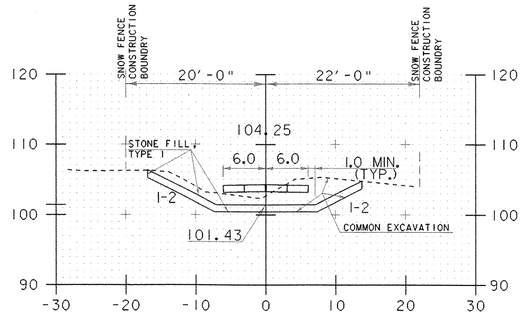
27+30



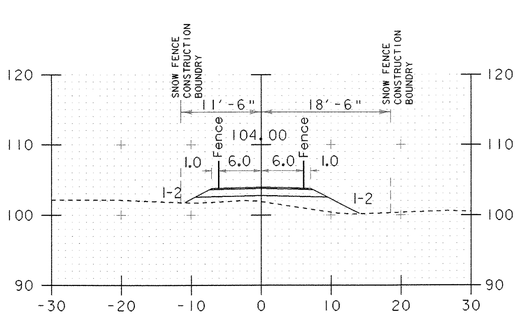
27+60



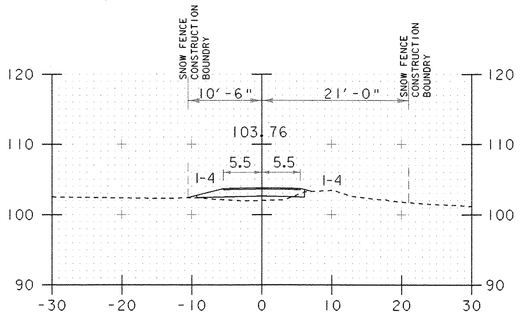
26+66



26+90



27+20

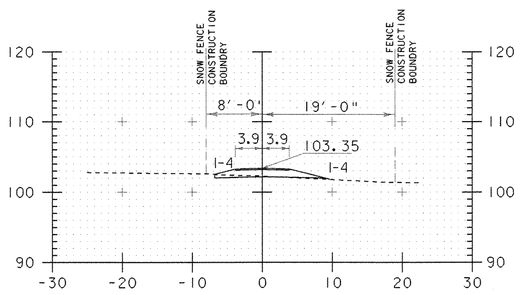


27+50

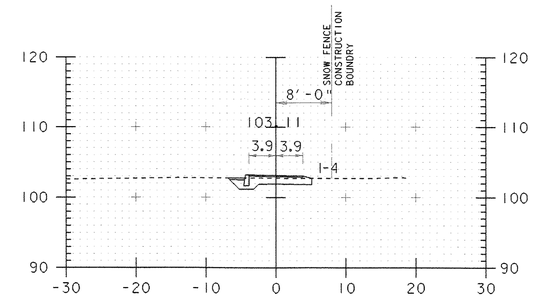
26+66 - 27+70

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xsl6.1	SHEET 85 OF 87

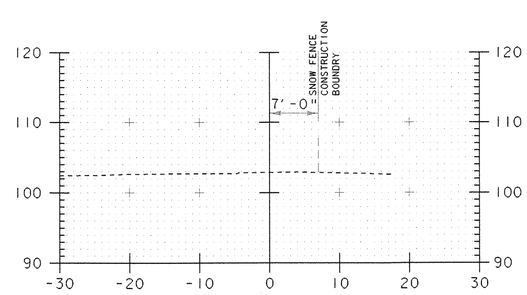


28+00



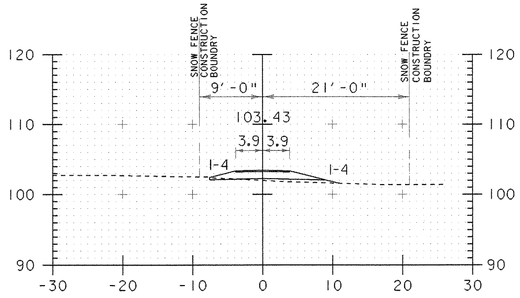
28+30

28+25 Begin Curbed Typical
28+25 to 28+30 Construct Ramp

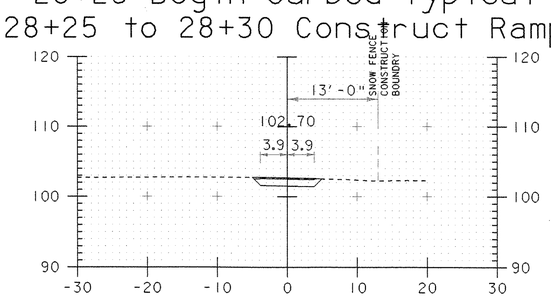


28+60

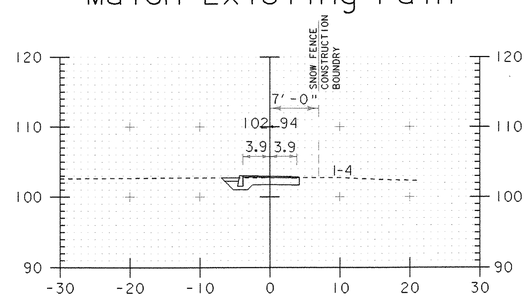
Match Existing Path



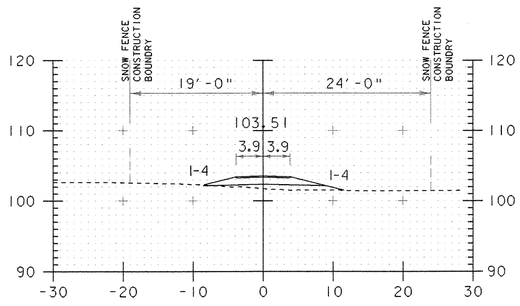
27+90



28+20

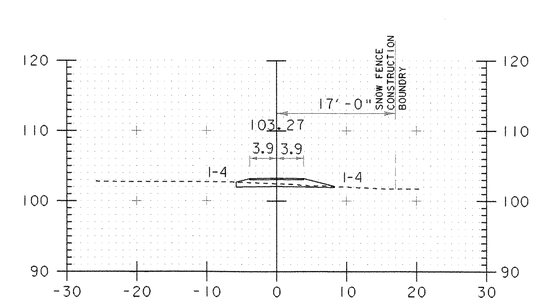


28+50



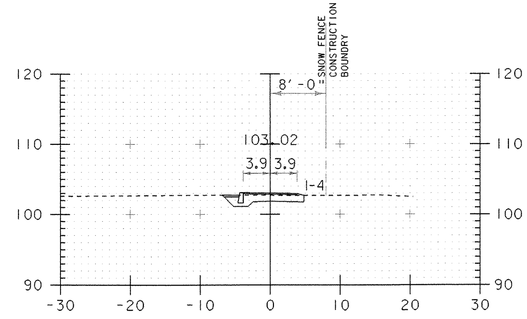
27+80

End Path Width Taper



28+10

28+10 to 28+15
Construct Ramp

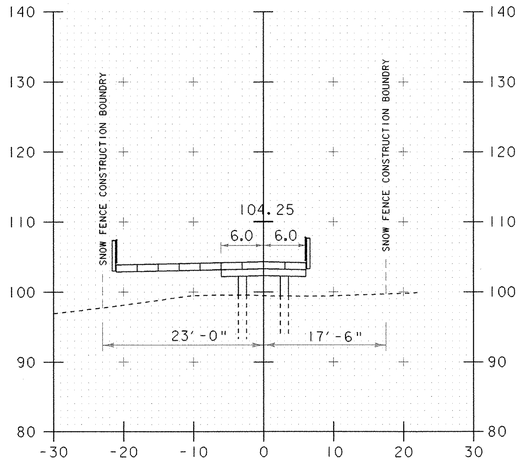


28+40

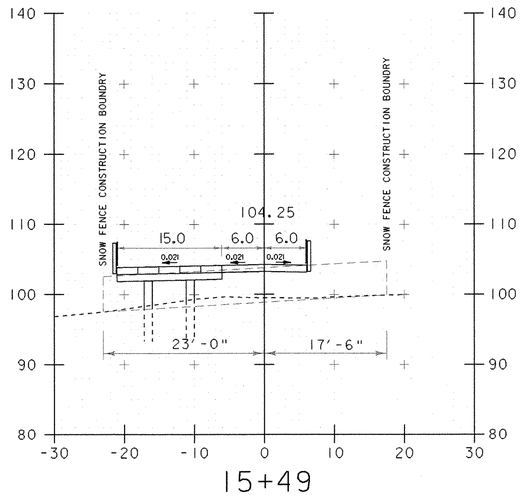
27+80 - 28+60

PROJECT NAME:	BURLINGTON -COLCHESTER
PROJECT NUMBER:	STP Bike(45)

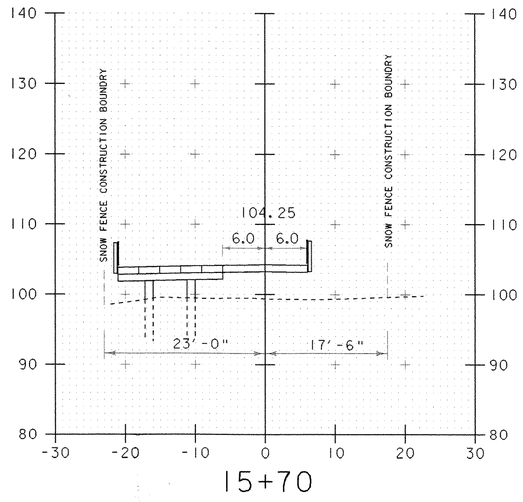
FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY:
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xsl7.i	SHEET 86 OF 87



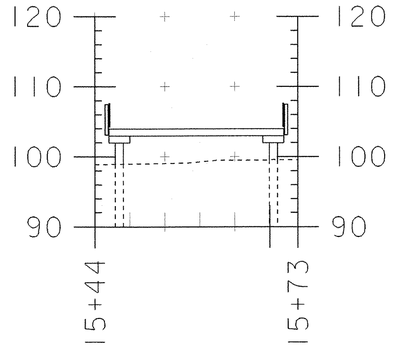
15+62



15+49



15+70

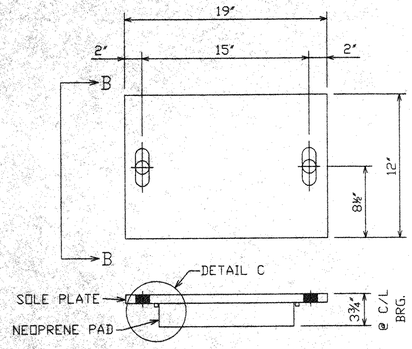


13'-0" LEFT
FROM STA. 15+44
TO 15+73

OVERLOOK SECTIONS

PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)

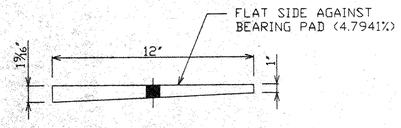
FILE NAME: /str5/01f132/sf132xsl.dgn	PLOT DATE: 15-NOV-2002
PROJECT LEADER: C. Keller	DRAWN BY: M.Evans-Mongeon
DESIGNED BY: G. Shangraw	CHECKED BY:
sf132xsl8.i	SHEET 87 OF 87



TRUSS BEARING PLATES
SPAN 1- 111'-0" TRUSS

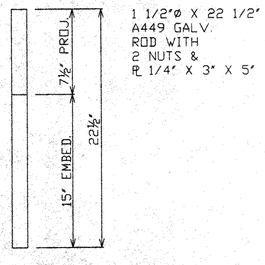
FIXED BEARINGS
SOLE PLATE - 2 PCS - PL 1 5/8' X 12' X 19 ' WITH 1 5/8'ø HOLES (BEVELED)
NEOPRENE PAD - 2 PCS - 2 1/2' X 10' X 12'

EXPANSION BEARINGS
SOLE PLATE - 2 PCS - PL 1 5/8' X 12' X 19' WITH 1 5/8' X 4 1/2' HOLES (BEVELED)
NEOPRENE PAD - 2 PCS - 2 1/2 ' X 10' X 12'

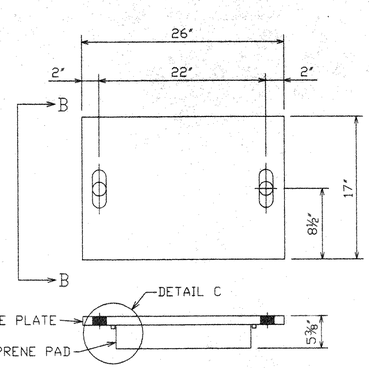


SECTION B-B

DETAIL C



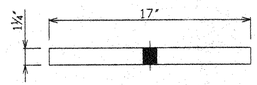
TRUSS ANCHOR BOLT
8 REQ'D



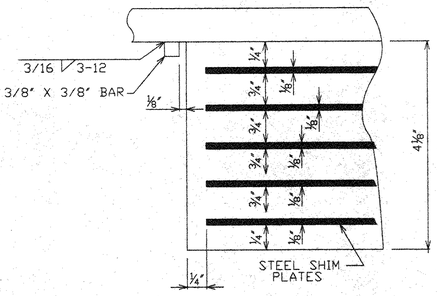
TRUSS BEARING PLATES
SPAN 2- 219'-6" TRUSS

FIXED BEARINGS
SOLE PLATE - 2 PCS - PL 1 1/4' X 17 X 26' WITH 1 5/8'ø HOLES
NEOPRENE PAD - 2 PCS - 4 1/8' X 14' X 18'

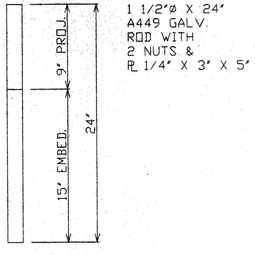
EXPANSION BEARINGS
SOLE PLATE - 2 PCS - PL 1 1/4' X 17' X 26' WITH 1 5/8' X 4 1/2' HOLES
NEOPRENE PAD - 2 PCS - 4 1/8' X 14' X 18'



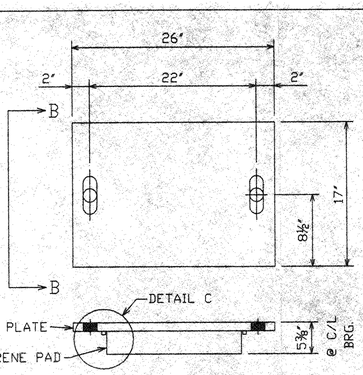
SECTION B-B



DETAIL C



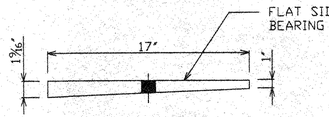
TRUSS ANCHOR BOLT
8 REQ'D



TRUSS BEARING PLATES
SPAN 3- 219'-6" TRUSS

FIXED BEARINGS
SOLE PLATE - 2 PCS - PL 1 5/8' X 17 X 26' WITH 1 5/8'ø HOLES (BEVELED)
NEOPRENE PAD - 2 PCS - 4 1/8' X 14' X 18'

EXPANSION BEARINGS
SOLE PLATE - 2 PCS - PL 1 5/8' X 17 X 26' WITH 1 5/8' X 4 1/2" HOLES (BEVELED)
NEOPRENE PAD - 2 PCS - 4 1/8' X 14' X 18'



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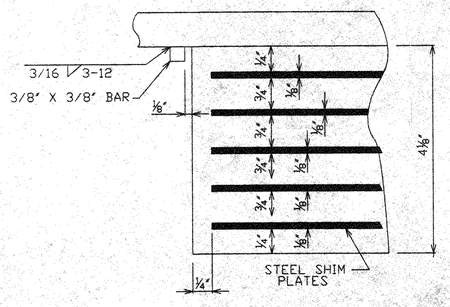

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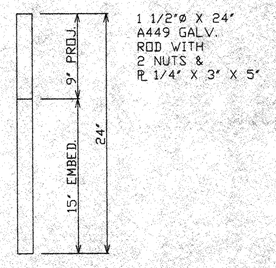


TRUSS ANCHOR BOLT
8 REQ'D

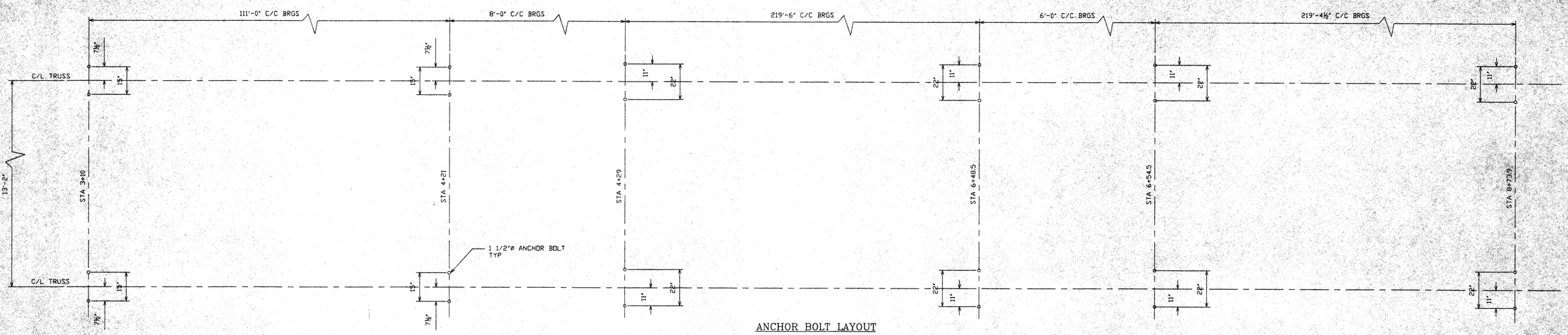
RECEIVED
CK'D BY MSM OK'D BY
SEP 09 2003
RESUBMIT APPROVED
BY DATE 9/12/03

NO.	DATE	REVISIONS	BY
1	09/02/03	CHANGE BRG. SIZES	RES

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BEARING & ABUTMENT DETAILS
BURLINGTON - COLCHESTER BIKE PATH
CHITTENDEN COUNTY, VERMONT

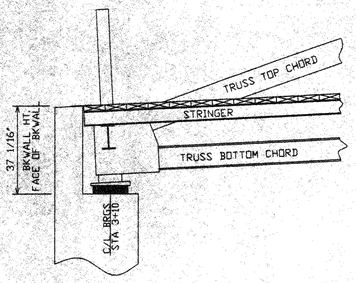
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	RES	AUG. 04, 2003	VERMONT 088	1 OF 2
CHECK/DATE SAF	FABRICATOR US BRIDGE			

NOTE: DRAWINGS RELATIVE DO NOT SCALE

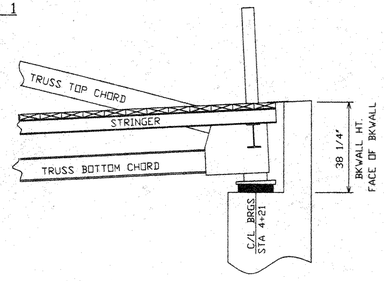


ANCHOR BOLT LAYOUT

SPAN 1

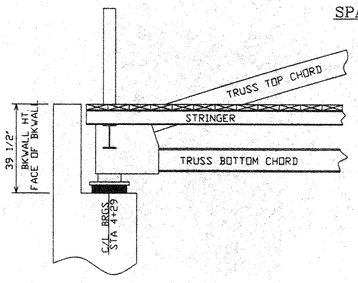


BACKWALL HEIGHT
REAR (SOUTH) ABUTMENT

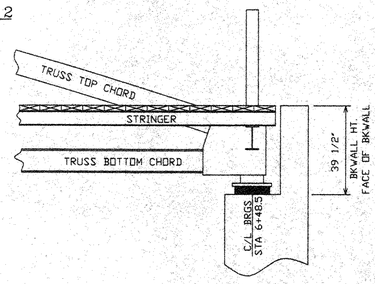


BACKWALL HEIGHT
PIER 1

SPAN 2

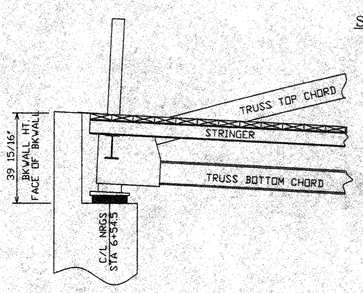


BACKWALL HEIGHT
PIER 1

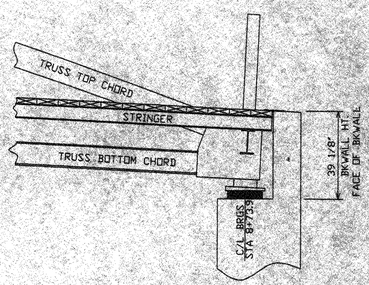


BACKWALL HEIGHT
PIER 2

SPAN 3



BACKWALL HEIGHT
PIER 2



BACKWALL HEIGHT
FORWARD (NORTH) ABUTMENT

RECEIVED
CK'D BY 11/5/03 CK'D BY
SEP 09 2003
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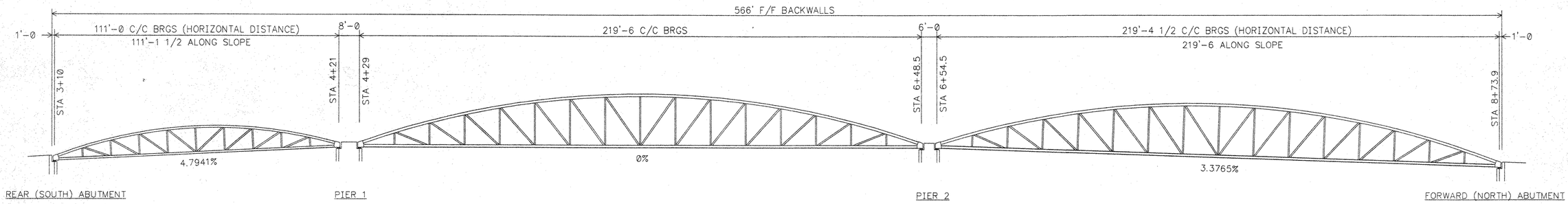
BY DATE 9/12/03

NO.	DATE	REVISIONS	BY
1	09/02/03	CHANGE BACKWALL HGT.	RES

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BEARING & ABUTMENT DETAILS
BURLINGTON - COLCHESTER BIKE PATH
CHITTENDEN COUNTY, VERMONT

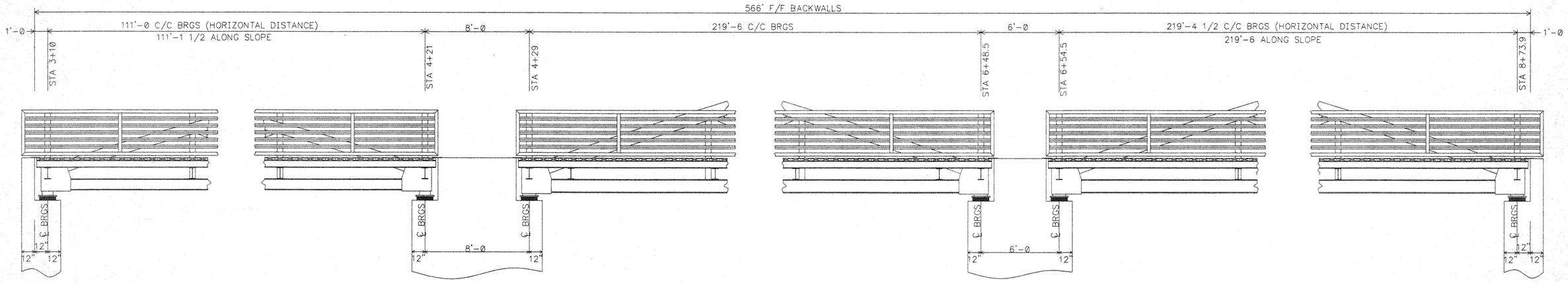
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	RES	AUG. 04, 2003	VERMONT 089	2 OF 2
CHECK/DATE SAF	FABRICATOR US BRIDGE			

NOTE: DRAWINGS RELATIVE DO NOT SCALE



SPAN 1 SPAN 2 SPAN 3

BRIDGE ELEVATION



REAR (SOUTH) ABUTMENT

TRUSS SHOE REACTION	
DEAD LOAD	30.3 K
LIVE LOAD (H-10 TRK)	11.3 K
IMPACT	2.4 K
PED. LIVE LOAD (65 PSF)	21.7 K

PIER 1

TRUSS SHOE REACTION	
DEAD LOAD	30.3 K
LIVE LOAD (H-10 TRK)	11.3 K
IMPACT	2.4 K
PED. LIVE LOAD (65 PSF)	21.7 K

TRUSS SHOE REACTION	
DEAD LOAD	114.3 K
LIVE LOAD (H-10 TRK)	11.5 K
IMPACT	1.7 K
PED. LIVE LOAD (65 PSF) (CALTILEVER SIDE)	85.6 K
PED. LIVE LOAD (65 PSF) (OTHER SIDE)	42.8 K

PIER 2

TRUSS SHOE REACTION	
DEAD LOAD	114.3 K
LIVE LOAD (H-10 TRK)	11.5 K
IMPACT	1.7 K
PED. LIVE LOAD (65 PSF) (CANTILEVER SIDE)	85.6 K
PED. LIVE LOAD (65 PSF) (OTHER SIDE)	42.8 K

TRUSS SHOE REACTION	
DEAD LOAD	62.7 K
LIVE LOAD (H-10 TRK)	11.5 K
IMPACT	1.7 K
PED. LIVE LOAD (65 PSF)	42.8 K

FORWARD (NORTH) ABUTMENT

TRUSS SHOE REACTION	
DEAD LOAD	62.7 K
LIVE LOAD (H-10 TRK)	11.5 K
IMPACT	1.7 K
PED. LIVE LOAD (65 PSF)	42.8 K

ABUTMENT DETAILS

NOTE - WALKWAY GRADES NOT SHOWN

DESIGN DEAD LOADS

3" X 10" WOOD STRIP FLOOR	15 PSF
SNOW LOAD	35 PSF

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

RECEIVED
CK'D BY WGM OK'D BY
APR 23 2003
RESUBMIT APPROVED
BY DATE 4/29/03

NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON - COLCHESTER

CHITTENDEN COUNTY, VERMONT

DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 27, 2003	BURLINGTON 090	1 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			

MATERIAL SCHEDULE

SPAN 1

QUANTITY	DESCRIPTION
1 PC	BRIDGE SECTION 1A – SHORT SIDE
1 PC	BRIDGE SECTION 1A – LONG SIDE
1 PC	BOTTOM LATERAL ANGLE 1B1 – L3 X 3 X 5/16
2 PCS	ABUTMENT CAP PLATE – ℄ 1/4" X 8" X 12'–0
AS REQ'D	3" X 10" TIMBER PLANK DECKING AT SPLICE @ 12'–0
AS REQ'D	5/16" ø X 3 1/4" DECK SCREWS

SPAN 2

QUANTITY	DESCRIPTION
1 PC	BRIDGE BOTTOM SECTION 2A
1 PC	BRIDGE BOTTOM SECTION 2A – 2B
1 PC	BRIDGE BOTTOM SECTION 2B – 2C
1 PC	BRIDGE BOTTOM SECTION 2C – 2D
1 PC	BRIDGE BOTTOM SECTION 2D
1 PC	BRIDGE TOP SECTION 2A – 2B
1 PC	BRIDGE TOP SECTION 2B – 2C
1 PC	BRIDGE TOP SECTION 2C – 2D
1 PC	BOTTOM LATERAL ANGLE 2B1 – L3 X 3 X 5/16
1 PC	BOTTOM LATERAL ANGLE 2B2 – L3 X 3 X 5/16
1 PC	BOTTOM LATERAL ANGLE 2B3 – L3 X 3 X 5/16
1 PC	BOTTOM LATERAL ANGLE 2B4 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 2T1 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 2T2 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 2T3 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 2T4 – L3 X 3 X 5/16
1 PC	SIDEWALK SECTION 2A
1 PC	SIDEWALK SECTION 2B
1 PC	MIDDLE SIDEWALK SECTION
1 PC	SIDEWALK SECTION 2C
1 PC	SIDEWALK SECTION 2D
2 PCS	ABUTMENT CAP PLATE – ℄ 1/4" X 8" X 12'–0
2 PCS	ABUTMENT CAP PLATE – ℄ 1/4" X 8" X 6'–0
AS REQ'D	3" X 10" TIMBER PLANK DECKING AT SPLICE @ 12'–0
AS REQ'D	3" X 10" TIMBER PLANK DECKING AT SPLICE @ 6'–0
AS REQ'D	5/16" ø X 3 1/4" DECK SCREWS

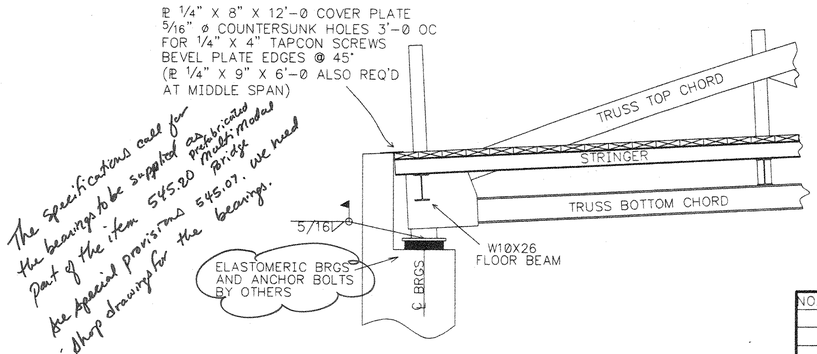
SPAN 3

QUANTITY	DESCRIPTION
1 PC	BRIDGE BOTTOM SECTION 3A
1 PC	BRIDGE BOTTOM SECTION 3A – 3B
1 PC	BRIDGE BOTTOM SECTION 3B – 3C
1 PC	BRIDGE BOTTOM SECTION 3C – 3D
1 PC	BRIDGE BOTTOM SECTION 3D
1 PC	BRIDGE TOP SECTION 3A – 3B
1 PC	BRIDGE TOP SECTION 3B – 3C
1 PC	BRIDGE TOP SECTION 3C – 3D
1 PC	BOTTOM LATERAL ANGLE 3B1 – L3 X 3 X 5/16
1 PC	BOTTOM LATERAL ANGLE 3B2 – L3 X 3 X 5/16
1 PC	BOTTOM LATERAL ANGLE 3B3 – L3 X 3 X 5/16
1 PC	BOTTOM LATERAL ANGLE 3B4 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 3T1 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 3T2 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 3T3 – L3 X 3 X 5/16
1 PC	TOP LATERAL ANGLE 3T4 – L3 X 3 X 5/16
2 PCS	ABUTMENT CAP PLATE – ℄ 1/4" X 8" X 12'–0
AS REQ'D	3" X 10" TIMBER PLANK DECKING AT SPLICE @ 12'–0
AS REQ'D	5/16" ø X 3 1/4" DECK SCREWS

BOLT CHART

BOLT TYPE – A325 TYPE 3 WEATHERING

LOCATION	1/2" ø	7/8" ø						
	1 1/2"	2"	2 1/4"	2 1/2"	2 3/4"	3"	3 1/4"	3 1/2"
SPAN 1								
HANDRAIL SPLICE	6							
ROADWAY STRINGER SPLICE		12						
TRUSS BOTTOM CHORD SPLICE				24	64			
TRUSS TOP CHORD SPLICE				24	48			
TRUSS DIAGONAL SPLICE			32					
BOT. LAT. BRACE CONNECTION		8						
SPAN 2								
HANDRAIL SPLICE	24							
ROADWAY STRINGER SPLICE		48						
SIDEWALK STRINGER SPLICE		16						
TRUSS BOTTOM CHORD SPLICE						192		448
TRUSS TOP CHORD SPLICE					192		448	
TRUSS DIAGONAL SPLICE			384					
TRUSS VERTICAL SPLICE			352		176			
BOT. LAT. BRACE CONNECTION		32						
TOP LAT. BRACE CONNECTION		32						
SPAN 3								
HANDRAIL SPLICE	24							
ROADWAY STRINGER SPLICE		48						
TRUSS BOTTOM CHORD SPLICE					144		320	
TRUSS TOP CHORD SPLICE					144	320		
TRUSS DIAGONAL SPLICE			384					
TRUSS VERTICAL SPLICE			352		176			
BOT. LAT. BRACE CONNECTION		32						
TOP LAT. BRACE CONNECTION		32						
TOTAL REQ'D	54	260	1504	516	944	512	768	448
TOTAL ORDERED	64	273	1579	541	991	537	806	470



The specifications call for the bearings to be supplied as fabricated part of the item 545.80 Prefabricated Multi-Modal Bridge. For the special provisions 545.07, we need shop drawings for the bearings.

TYPICAL ABUTMENT SECTION

RECEIVED
CK'D BY WTSW CK'D BY
APR 23 2003
RESUBMIT APPROVED X
BY DATE 4/29/03

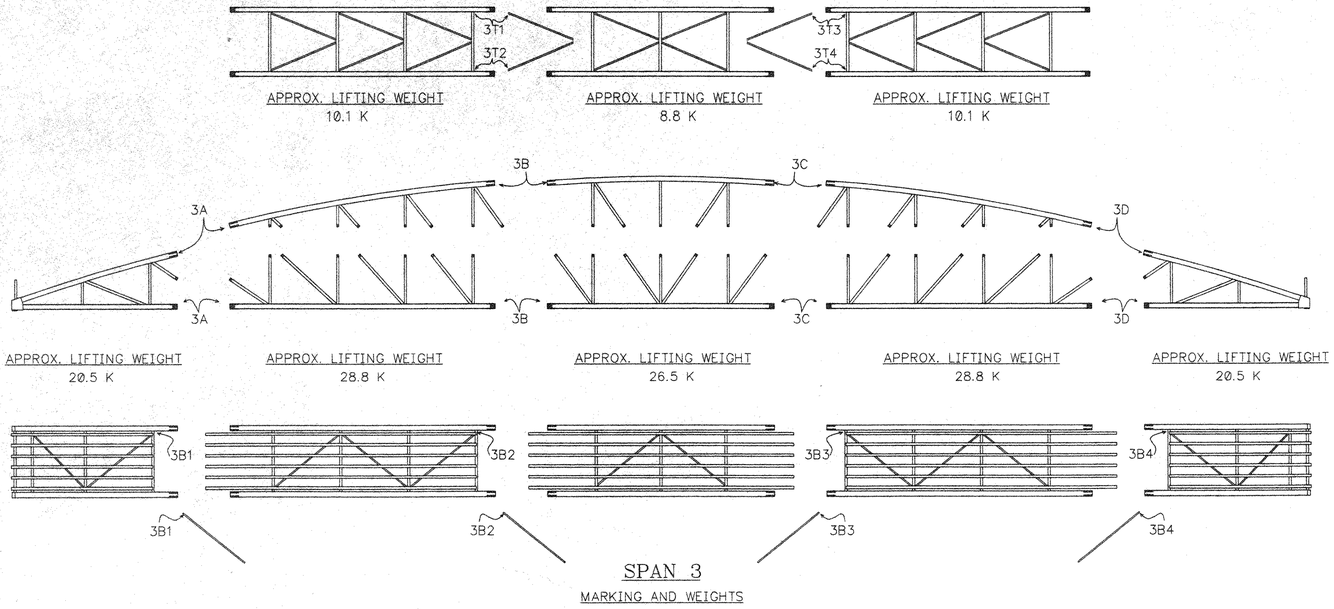
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER

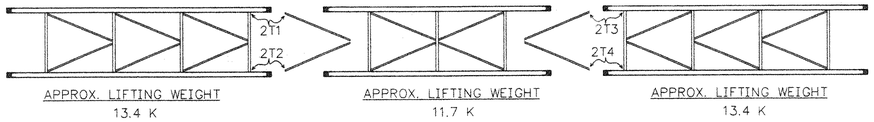
CHITTENDEN COUNTY, VERMONT

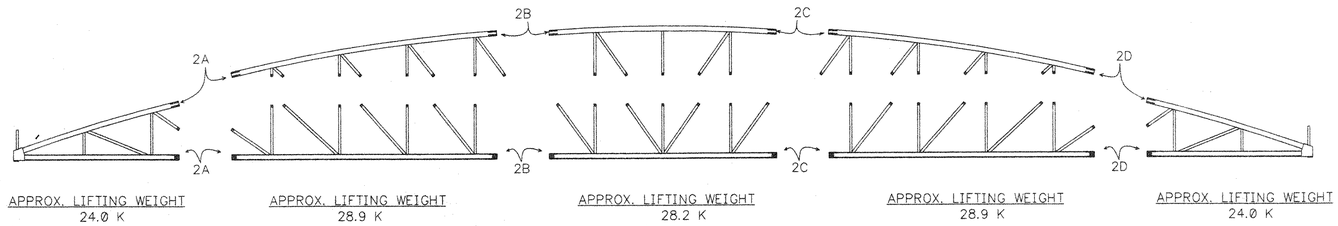
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	APR. 2, 2003	BURLINGTON 091	2 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			

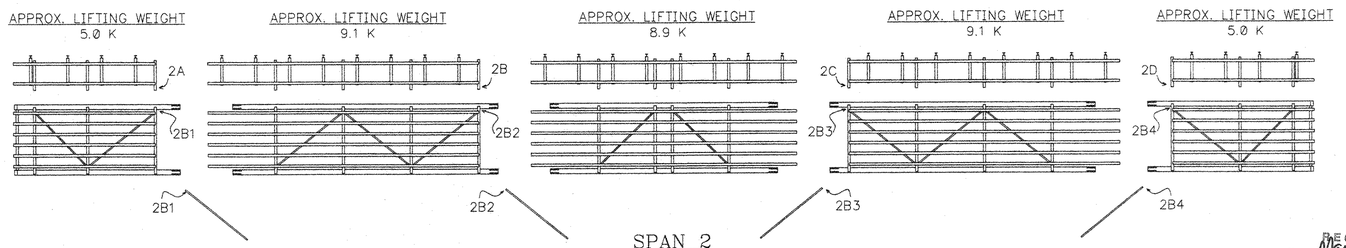
NOTE: DRAWINGS RELATIVE (DO NOT SCALE)



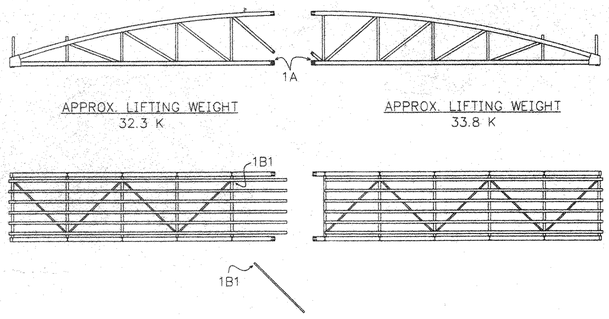
SPAN 3
MARKING AND WEIGHTS







SPAN 2
MARKING AND WEIGHTS



SPAN 1
MARKING AND WEIGHTS

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

RECEIVED
APR 23 2003

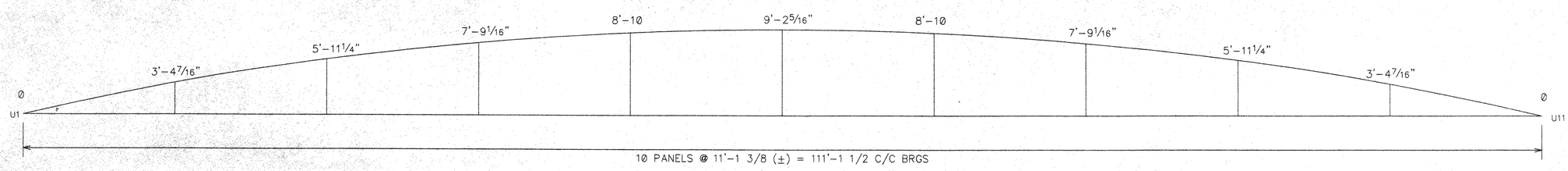
CK'D BY MEM OK'D BY
RESUBMIT APPROVED
BY DATE 4/29/03

NO.	DATE	REVISIONS	BY

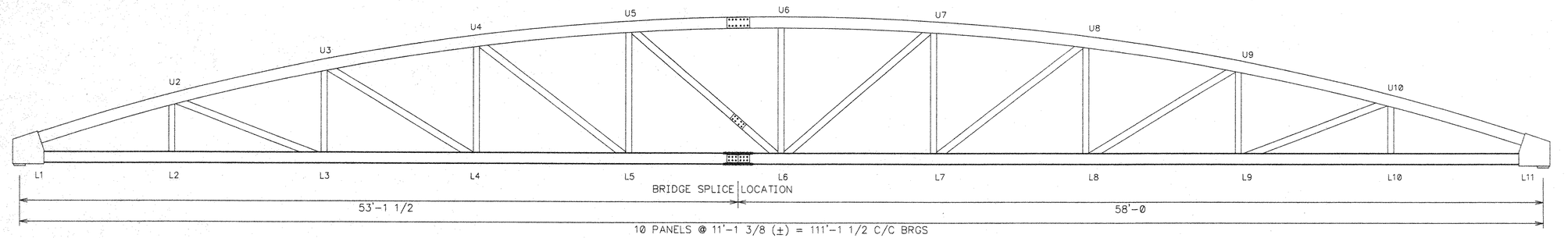
564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER

CHITTENDEN COUNTY, VERMONT

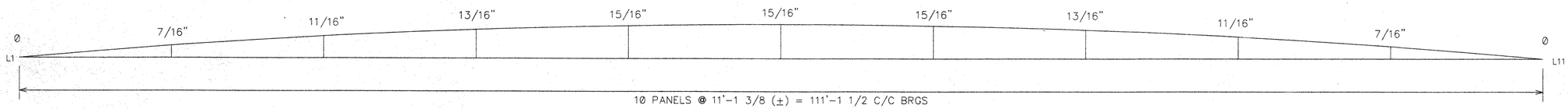
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	APR. 2, 2003	BURLINGTON	
CHECK/DATE	FABRICATOR US BRIDGE		092	3 OF 18



TOP CHORD CAMBER DIAGRAM

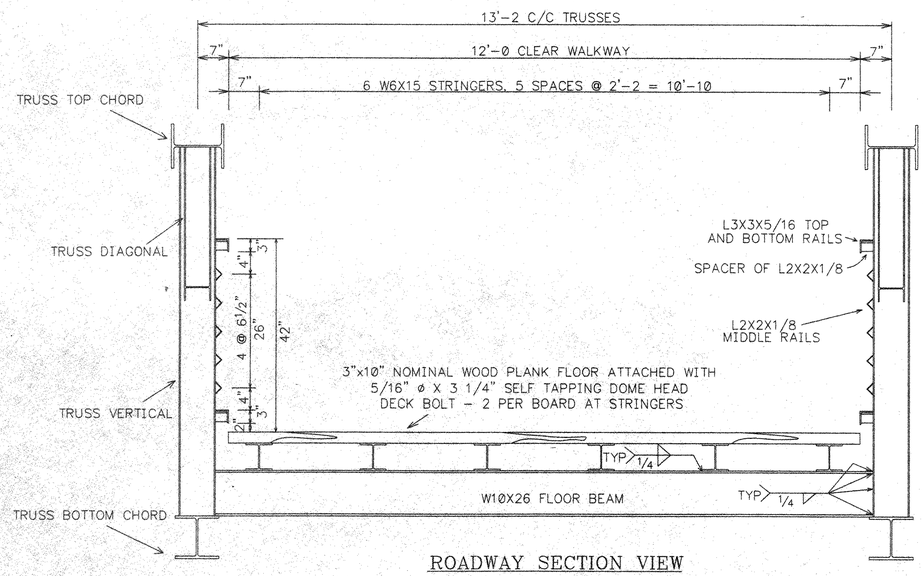


TRUSS BRIDGE ELEVATION VIEW – SPAN 1



BOTTOM CHORD CAMBER DIAGRAM

CAMBER TO OFFSET DEAD LOAD ONLY



ROADWAY SECTION VIEW

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

TRUSS MEMBER CHART	
TRUSS MEMBER	SIZE
TOP CHORD	W12X53
BOTTOM CHORD	W10X49
VERTICALS	W8X21
DIAGONALS	W6X15

GENERAL NOTES

ALL WELDED WEATHERING STEEL TRUSS BRIDGE

ALL SUPERSTRUCTURE STRUCTURAL STEEL ASTM A709 GR 50W WEATHERING TYPE STEEL (A588)

ALL WELDING PERFORMED IN COMPLIANCE WITH AMERICAN WELDING SOCIETY D1.5 BRIDGE WELDING CODE.

3" X 10" NOMINAL WOOD PLANK FLOORING SOUTHERN YELLOW PINE GRADE NO. 1, CCA TREATED 0.4 LBS PENETRATION.

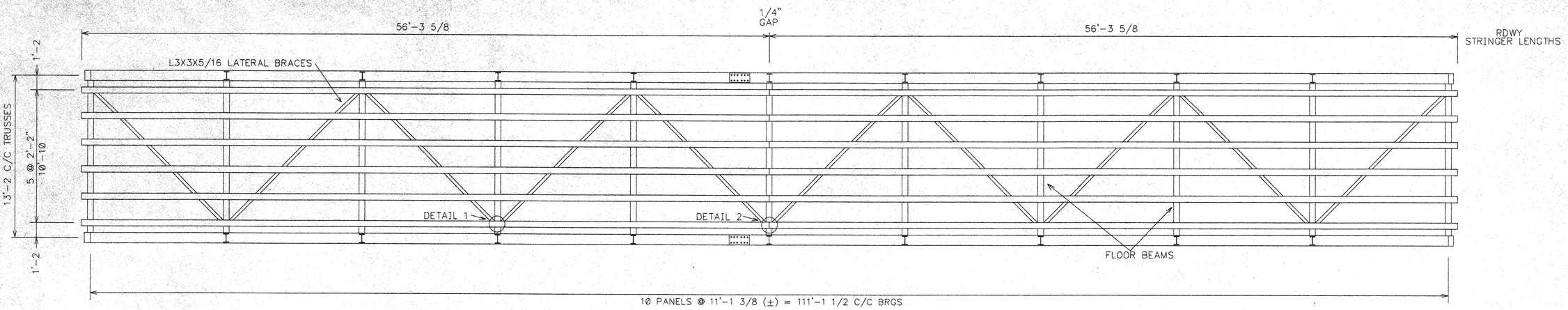
TRUSS TOP AND BOTTOM CHORD CAMBER TOLERANCES SHALL BE AS SPELLED OUT IN AWS D1.5 (2002) TABLE 3.2 CAMBER TOLERANCE FOR TYPICAL GIRDER

RECEIVED
CK'D BY NJM CK'D BY
APR 23 2003
RESUBMIT APPROVED
BY DATE 4/24/03

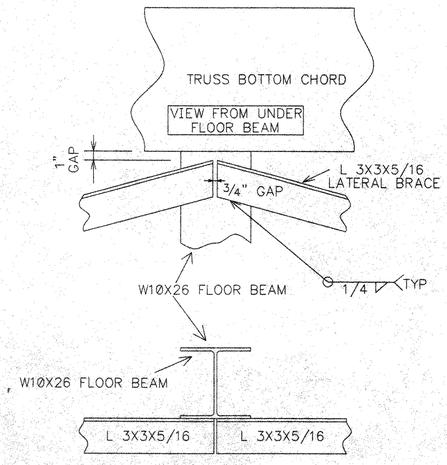
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER
SPAN 1 – 111'-1 1/2"
CHITTENDEN COUNTY, VERMONT

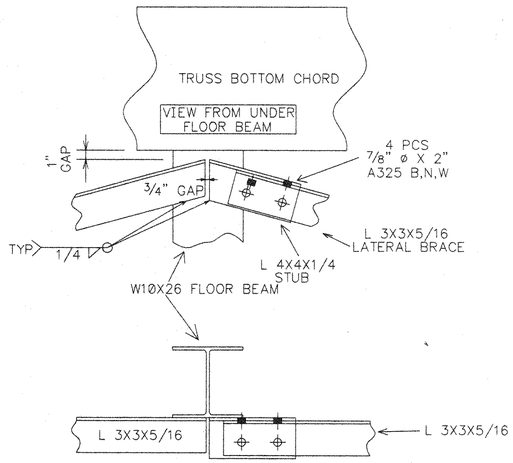
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 12, 2003	BURLINGTON	4 OF 18
CHECK/DATE	FABRICATOR US BRIDGE		093	



BRIDGE FLOOR FRAMING PLAN



DETAIL 1
LATERAL BRACE DETAIL
7 LOCATIONS AS SHOWN
2 LOCATIONS SIMILAR (1 LATERAL)



DETAIL 2
LATERAL BRACE DETAIL
2 LOCATIONS AS SHOWN
AT TRUSS BOLTED CONNECTION PANELS

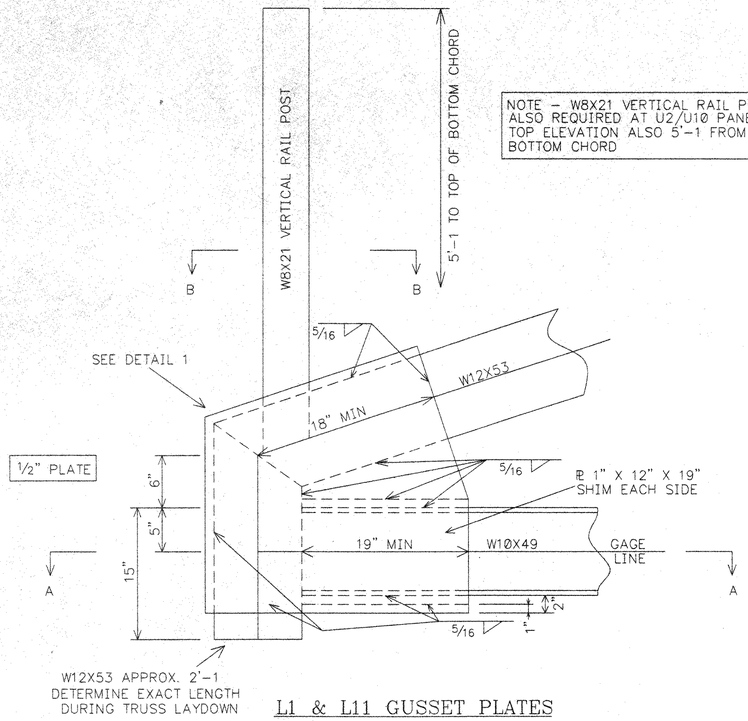
RECEIVED
CK'D BY MEM CK'D BY
APR 23 2003
RESUBMIT APPROVED
BY DATE 4/23/03

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

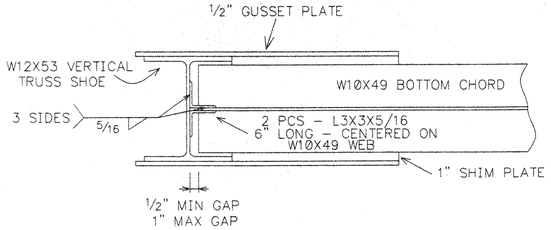
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER
SPAN 1 – 111'-1 1/2"
CHITTENDEN COUNTY, VERMONT

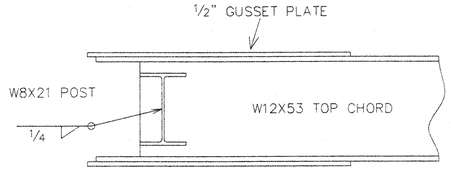
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 13, 2003	BURLINGTON 094	5 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



L1 & L11 GUSSET PLATES

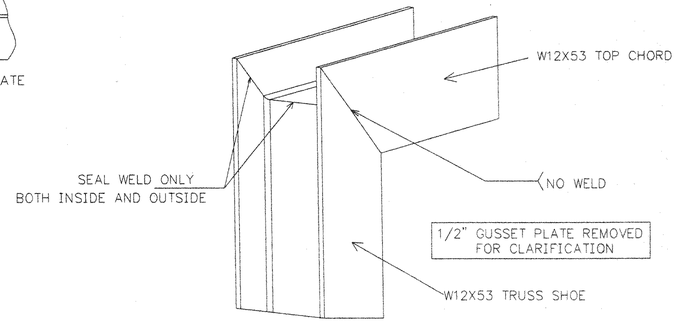


SECTION A-A



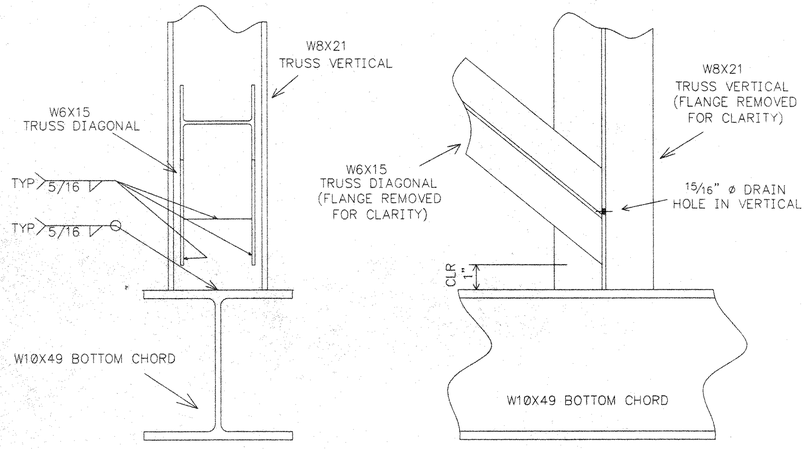
SECTION B-B

DETAIL SIMILAR AT U2 PANEL POINT



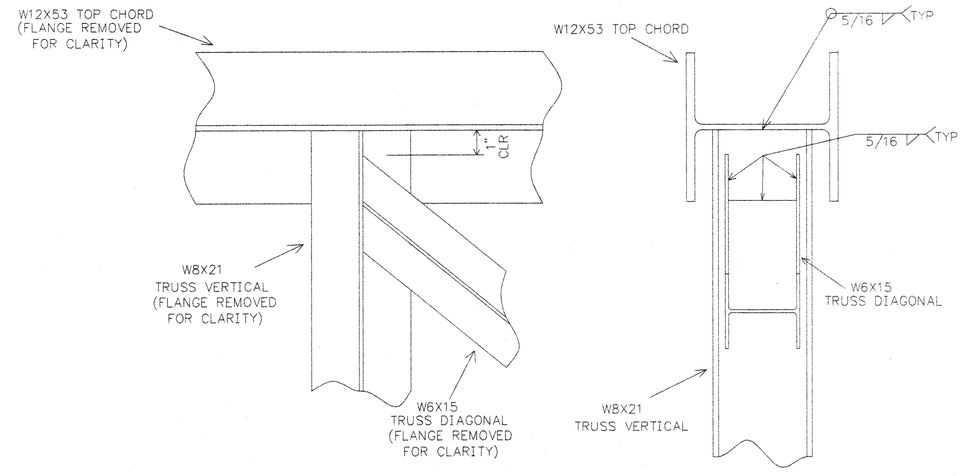
DETAIL 1

TRUSS SHOE TO TOP CHORD CONNECTION
2 LOCATIONS



WELD DETAILS AT BOTTOM CHORD PANEL POINTS

VERTICAL AND DIAGONAL CONNECTIONS AT BOTTOM CHORD
6 LOCATIONS
1 SIMILAR LOCATION (2 DIAGONALS)
2 SIMILAR LOCATIONS (VERTICAL ONLY)



WELD DETAILS AT TOP CHORD PANEL POINTS

VERTICAL AND DIAGONAL CONNECTIONS AT TOP CHORD
8 LOCATIONS
1 SIMILAR LOCATION (NO DIAGONAL)

RECEIVED
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APR 2 3 2003
RESUBMIT APPROVED
BY DATE 4/24/03

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

NO.	DATE	REVISIONS	BY

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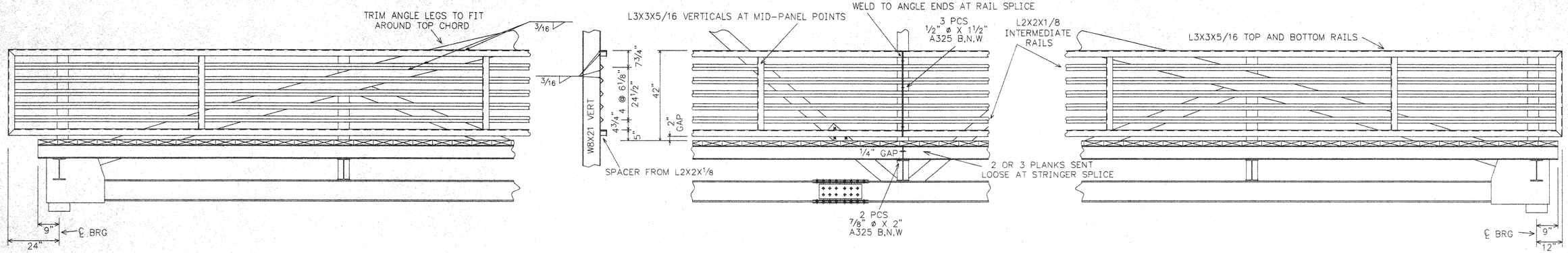
BURLINGTON - COLCHESTER
SPAN 1 - 111'-1 1/2"
CHITTENDEN COUNTY, VERMONT

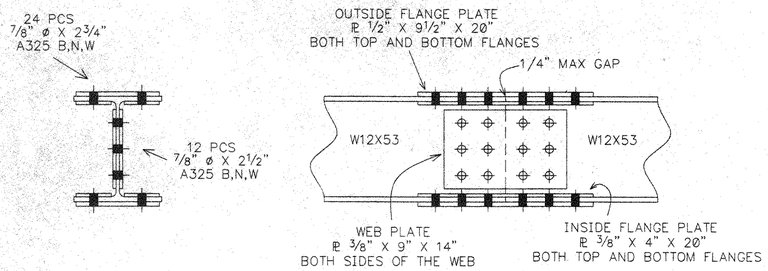
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 13, 2003	BURLINGTON 095	6 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



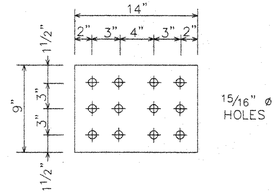
REAR (SOUTH) ABUTMENT

BRIDGE AND RAIL SPLICES

PIER 1



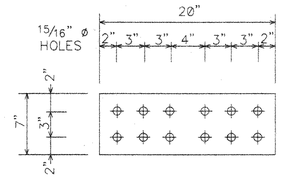
U5U6 TOP CHORD SPLICE



U5U6 TOP CHORD WEB SPLICE PLATES

ℙ ⅜" X 9" X 14"

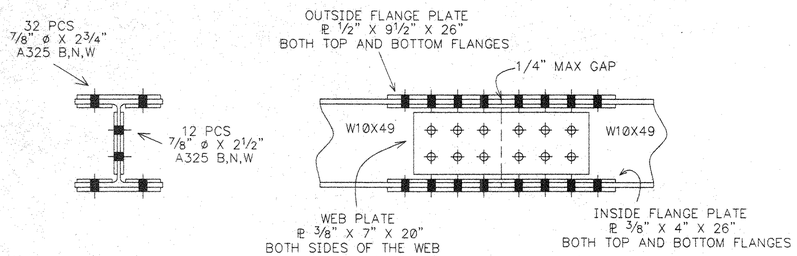
4 REQ'D



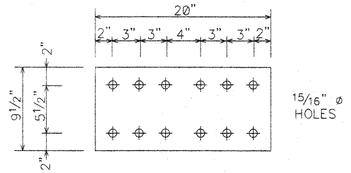
L5L6 BOTTOM CHORD WEB SPLICE PLATES

ℙ ⅜" X 7" X 20"

4 REQ'D



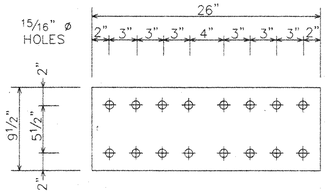
L5L6 BOTTOM CHORD SPLICE



U5U6 TOP CHORD OUTSIDE FLANGE SPLICE PLATES

ℙ ½" X 9½" X 20"

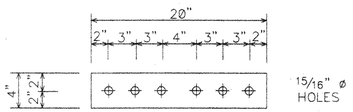
4 REQ'D



L5L6 BOTTOM CHORD OUTSIDE FLANGE SPLICE PLATES

ℙ ½" X 9½" X 26"

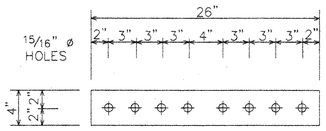
4 REQ'D



U5U6 TOP CHORD INSIDE FLANGE SPLICE PLATES

ℙ ⅜" X 4" X 20"

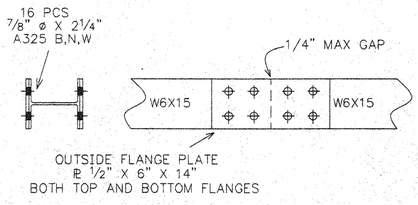
8 REQ'D



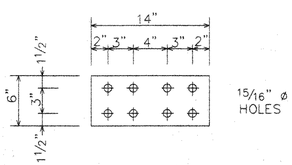
L5L6 BOTTOM CHORD INSIDE FLANGE SPLICE PLATES

ℙ ⅜" X 4" X 26"

8 REQ'D



U5L6 DIAGONAL SPLICE



U5L6 DIAGONAL FLANGE SPLICE PLATES

ℙ ½" X 6" X 14"

4 REQ'D

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

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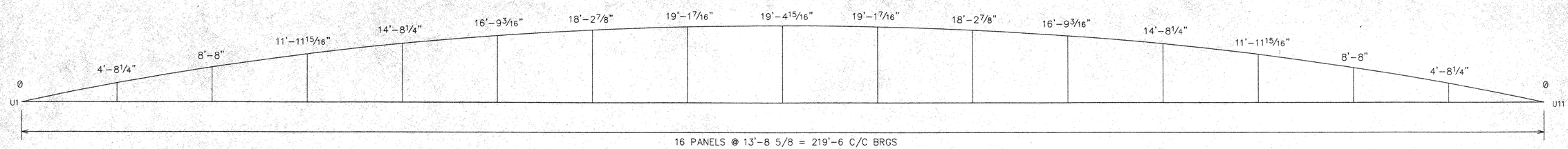
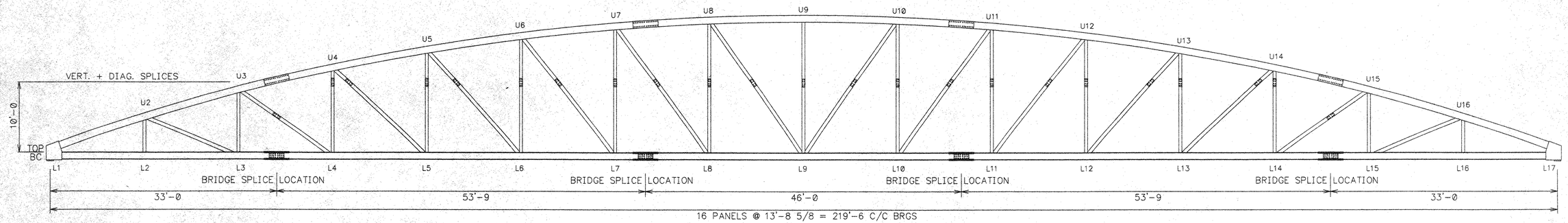
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER
SPAN 1 – 111'–1 1/2"
CHITTENDEN COUNTY, VERMONT

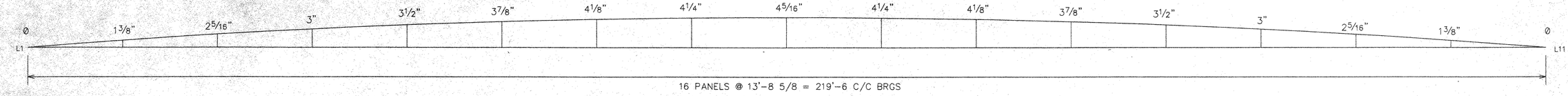
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 13, 2003	BURLINGTON	7 OF 16
CHECK/DATE	FABRICATOR US BRIDGE		096	



TOP CHORD CAMBER DIAGRAM

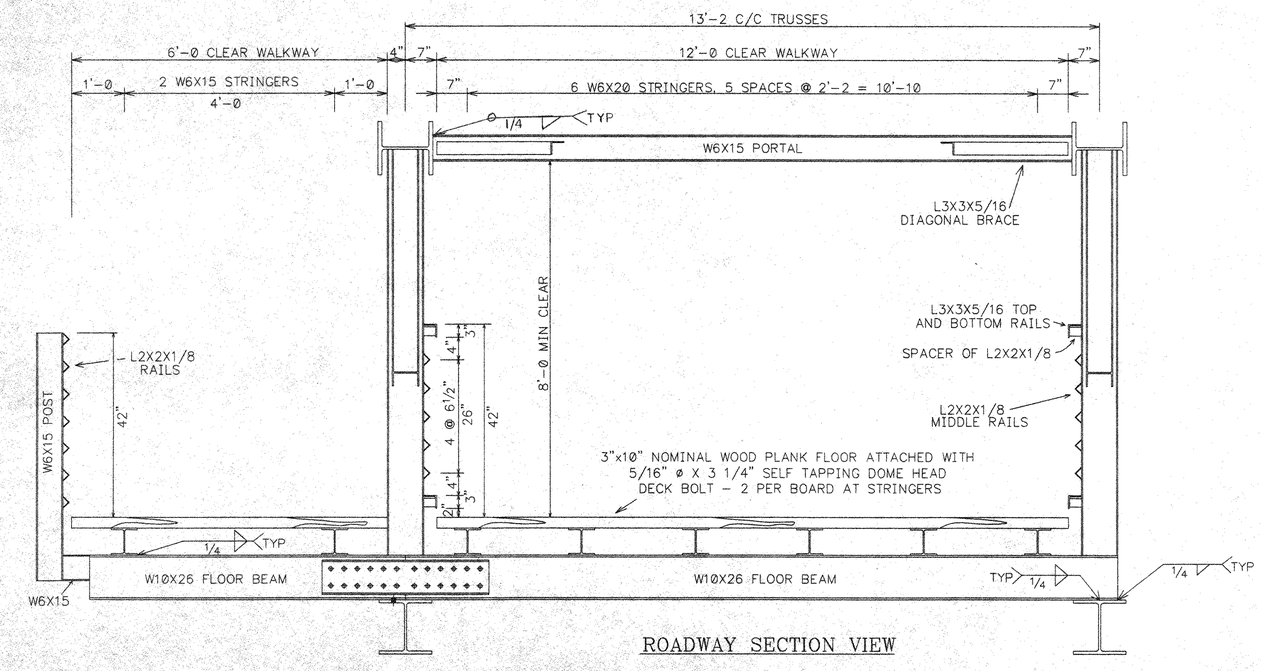


TRUSS BRIDGE ELEVATION VIEW - SPAN 2



BOTTOM CHORD CAMBER DIAGRAM

CAMBER TO OFFSET DEAD LOAD ONLY



ROADWAY SECTION VIEW

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

TRUSS MEMBER CHART	
TRUSS MEMBER	SIZE
TOP CHORD	W12X96
BOTTOM CHORD	W10X72
VERTICALS	W8X21
DIAGONALS	W6X15

GENERAL NOTES

'ALL WELDED WEATHERING STEEL TRUSS BRIDGE

ALL SUPERSTRUCTURE STRUCTURAL STEEL ASTM A709 GR 50W WEATHERING TYPE STEEL (A588)

ALL WELDING PERFORMED IN COMPLIANCE WITH AMERICAN WELDING SOCIETY D1.5 BRIDGE WELDING CODE.

3" X 10" NOMINAL WOOD PLANK FLOORING SOUTHERN YELLOW PINE GRADE NO. 1, CCA TREATED 0.4 LBS PENETRATION.

TRUSS TOP AND BOTTOM CHORD CAMBER TOLERANCES SHALL BE AS SPELLED OUT IN AWS D1.5 (2002) TABLE 3.2 CAMBER TOLERANCE FOR TYPICAL GIRDER

RECEIVED
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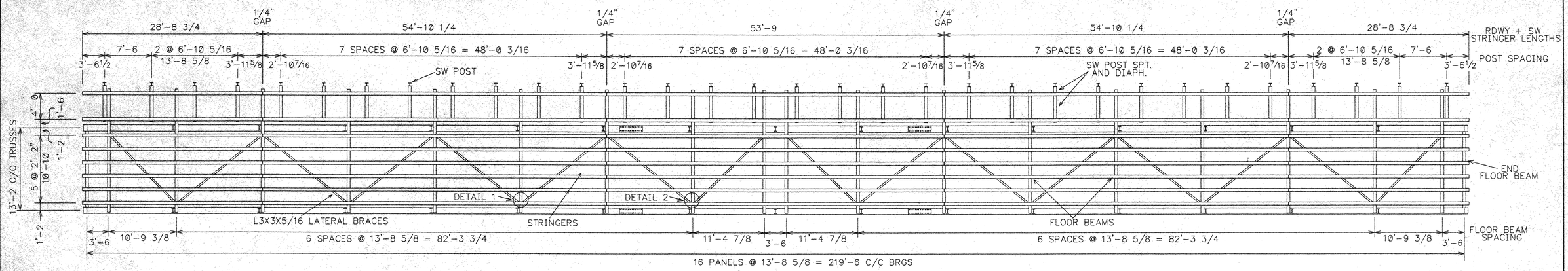
APR 2 3 2003
RESUBMIT APPROVED
BY DATE 4/24/03

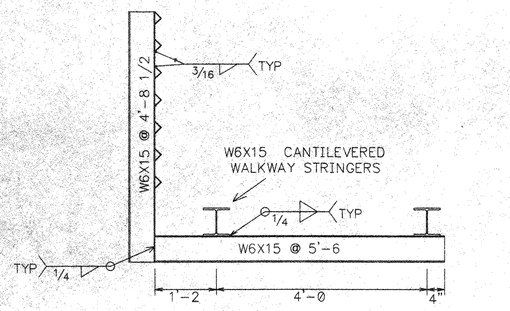
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON - COLCHESTER
SPAN 2 - 219'-6"
CHITTENDEN COUNTY, VERMONT

DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 26, 2003	BURLINGTON 097	8 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			

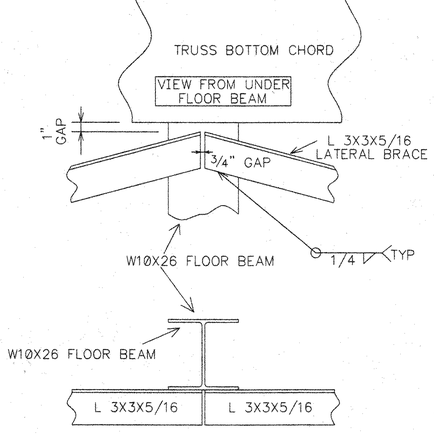


BRIDGE FLOOR FRAMING PLAN



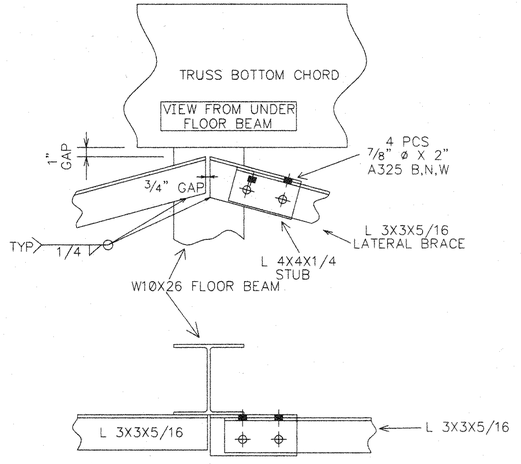
SIDEWALK POST AND POST SUPPORT DETAIL

32 LOCATIONS



DETAIL 1
LATERAL BRACE DETAIL

10 LOCATIONS AS SHOWN
4 LOCATIONS SIMILAR (1 LATERAL)



DETAIL 2
LATERAL BRACE DETAIL

4 LOCATIONS AS SHOWN
AT TRUSS BOLTED CONNECTION PANELS

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

RECEIVED
CK'D BY MEM CK'D BY
APR 23 2003
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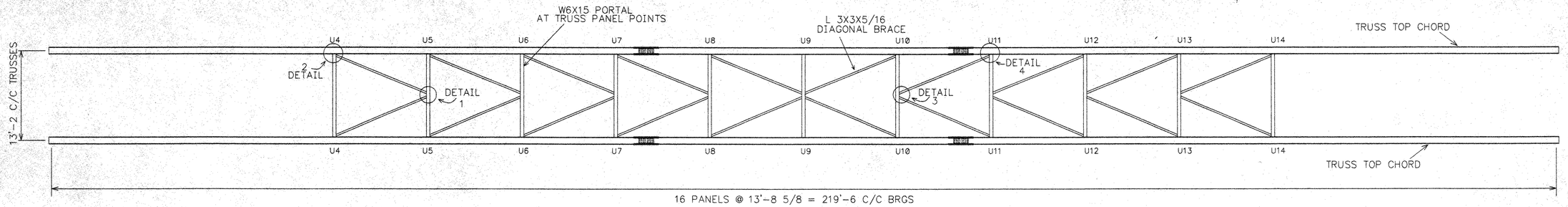
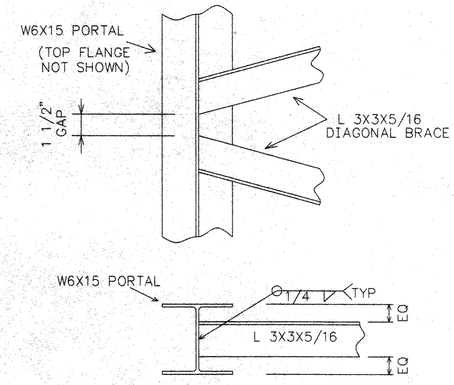
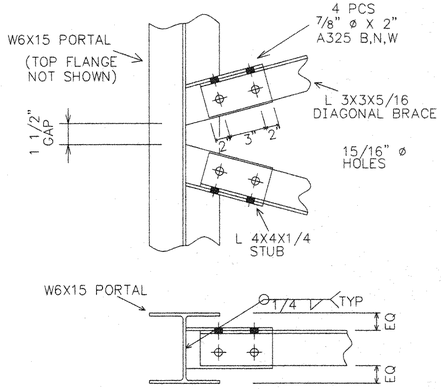
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 26, 2003	BURLINGTON 098	9 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



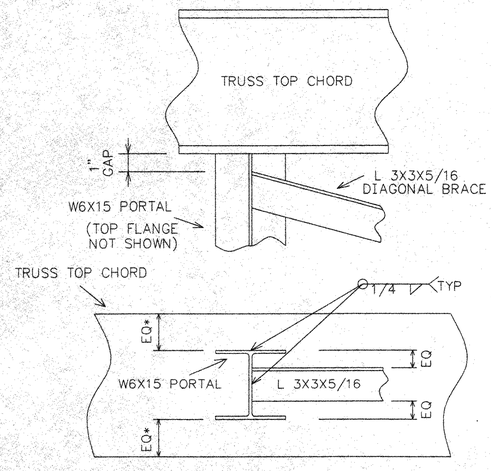
BRIDGE PORTAL DETAILS



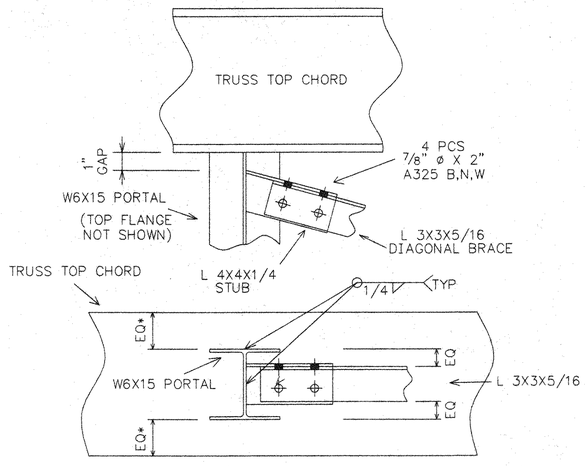
DETAIL 1
WELDED DIAGONAL BRACE CONNECTION
8 LOCATIONS



DETAIL 3
BOLTED DIAGONAL BRACE CONNECTION
AT TRUSS BOLTED BAY LOCATIONS
2 LOCATIONS



DETAIL 2
WELDED DIAGONAL BRACE AND PORTAL CONNECTION
16 LOCATIONS



DETAIL 4
BOLTED DIAGONAL BRACE CONNECTION
AT TRUSS BOLTED BAY LOCATIONS
4 LOCATIONS

RECEIVED
OK'D BY MEM OK'D BY
APR 23 2003
RESUBMIT APPROVED
BY DATE 4/29/03

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

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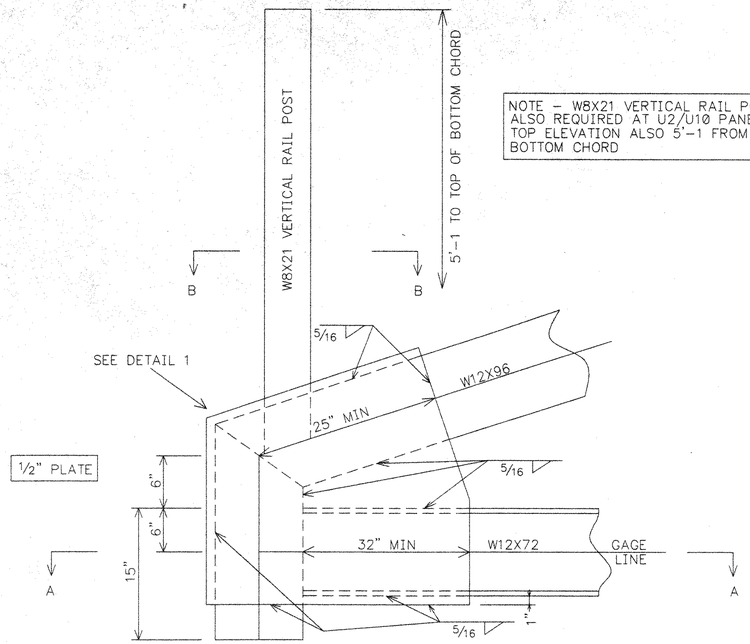
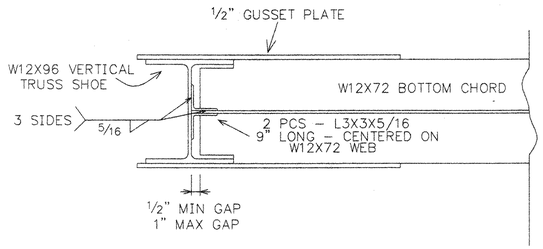
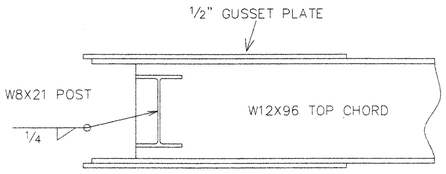
SAF	SAF	MAR. 26, 2003	BURLINGTON	10 OF 18
CHECK/DATE	FABRICATOR US BRIDGE		099	



L1 & L17 GUSSET PLATES

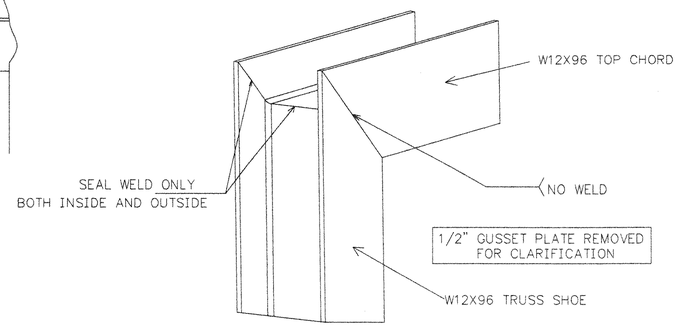


SECTION A–A



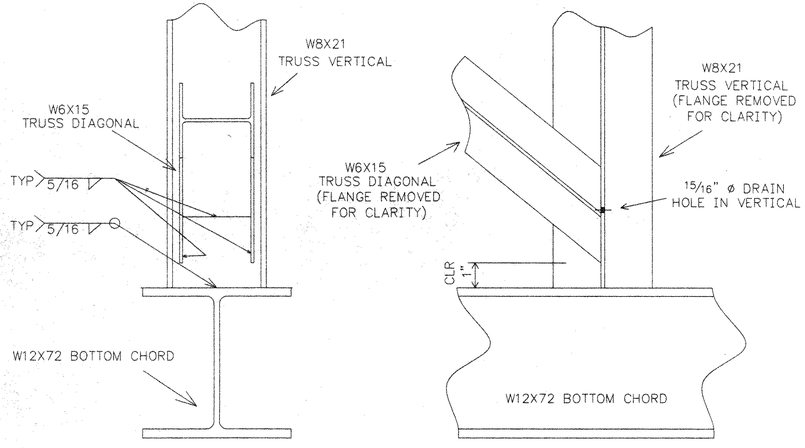
SECTION B–B

DETAIL SIMILAR AT U2 PANEL POINT



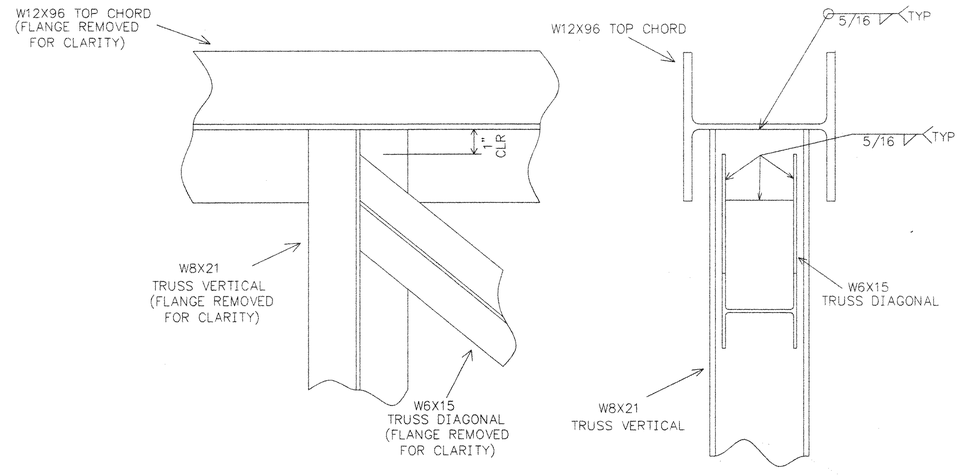
DETAIL 1

TRUSS SHOE TO TOP CHORD CONNECTION
2 LOCATIONS



WELD DETAILS AT BOTTOM CHORD PANEL POINTS

VERTICAL AND DIAGONAL CONNECTIONS AT BOTTOM CHORD
12 LOCATIONS
1 SIMILAR LOCATION (2 DIAGONALS)
2 SIMILAR LOCATIONS (VERTICAL ONLY)



WELD DETAILS AT TOP CHORD PANEL POINTS

VERTICAL AND DIAGONAL CONNECTIONS AT TOP CHORD
14 LOCATIONS
1 SIMILAR LOCATION (NO DIAGONAL)

RECEIVED
CK'D BY MEM CK'D BY
APR 23 2003
RESUBMIT APPROVED
BY DATE 4/29/03

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

NO.	DATE	REVISIONS	BY

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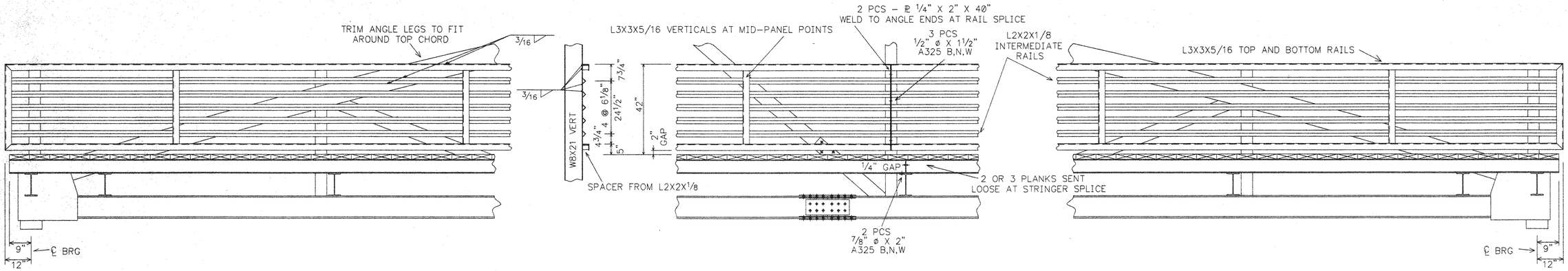
BURLINGTON – COLCHESTER
SPAN 2 – 219'-6"
CHITTENDEN COUNTY, VERMONT

DESIGN	DRAWN	DATE	DRAWING NO.
SAF	SAF	MAR. 26, 2003	BURLINGTON
CHECK/DATE	FABRICATOR US BRIDGE		100

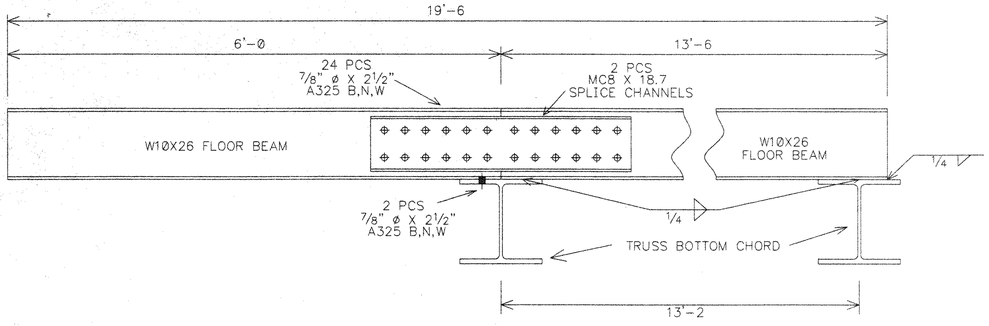
SHEET 11 OF 18



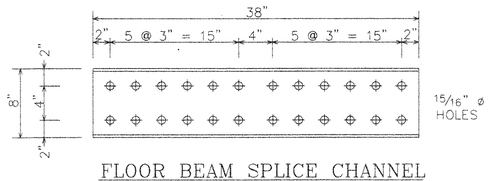
PIER 1

BRIDGE AND RAIL SPLICES

PIER 2



FLOOR BEAM DETAILS



FLOOR BEAM SPLICE CHANNEL
MC8 X 18.7
36 REQ'D

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

RECEIVED
CK'D BY NEM OK'D BY
APR 2 3 2003
RESUBMIT APPROVED
BY DATE 4/24/03

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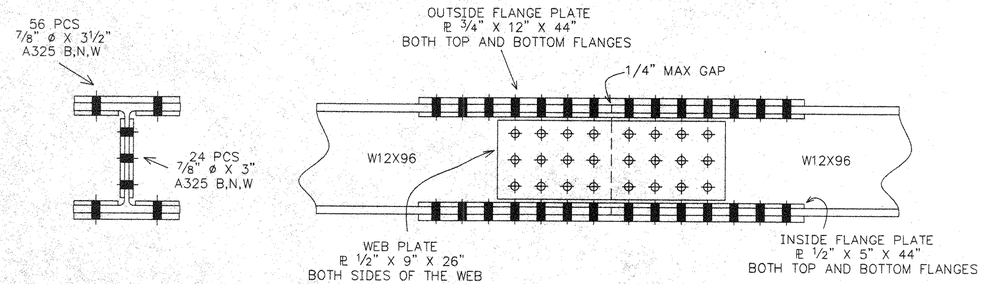
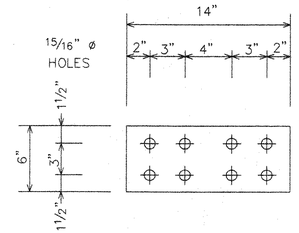
BURLINGTON – COLCHESTER
SPAN 2 – 219'-6"
CHITTENDEN COUNTY, VERMONT

DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 26, 2003	BURLINGTON 101	12 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



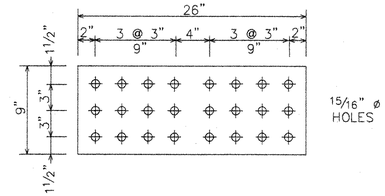
TYPICAL TOP CHORD SPLICE



VERTICAL WEB SPLICE PLATES

PL 1/2" X 6" X 14"

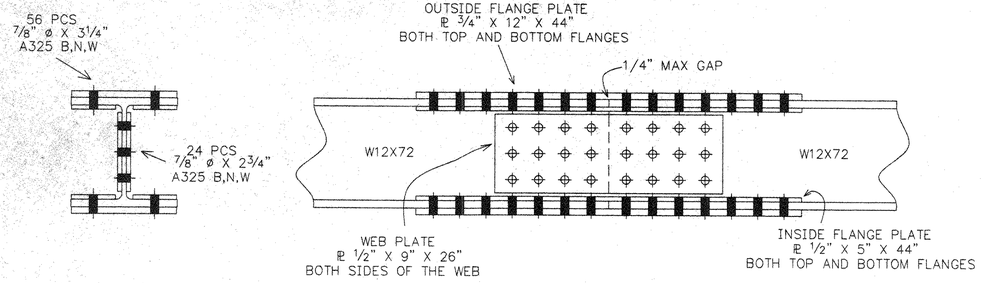
44 REQ'D



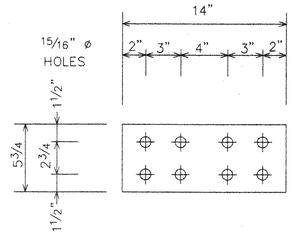
TOP AND BOTTOM CHORD WEB SPLICE PLATES

PL 1/2" X 9" X 26"

32 REQ'D



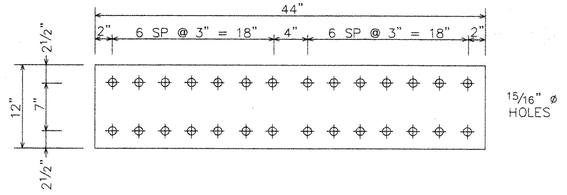
TYPICAL BOTTOM CHORD SPLICE



VERTICAL FLANGE SPLICE PLATES

PL 1/2" X 6" X 14"

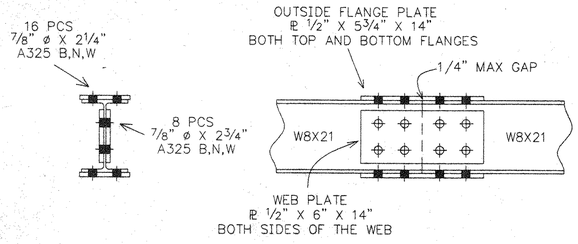
44 REQ'D



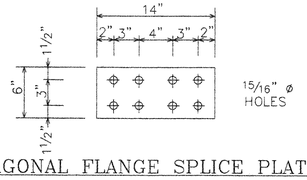
TOP AND BOTTOM CHORD OUTSIDE FLANGE SPLICE PLATES

PL 3/4" X 12" X 44"

32 REQ'D



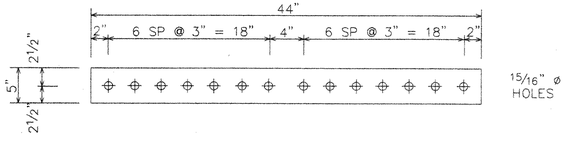
TYPICAL VERTICAL SPLICE



DIAGONAL FLANGE SPLICE PLATES

PL 1/2" X 6" X 14"

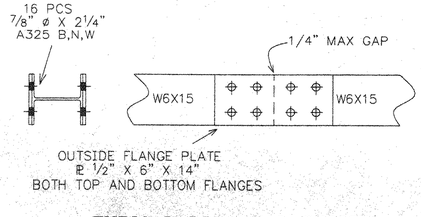
48 REQ'D



U5U6 TOP CHORD INSIDE FLANGE SPLICE PLATES

PL 1/2" X 5" X 44"

64 REQ'D



TYPICAL DIAGONAL SPLICE

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

RECEIVED
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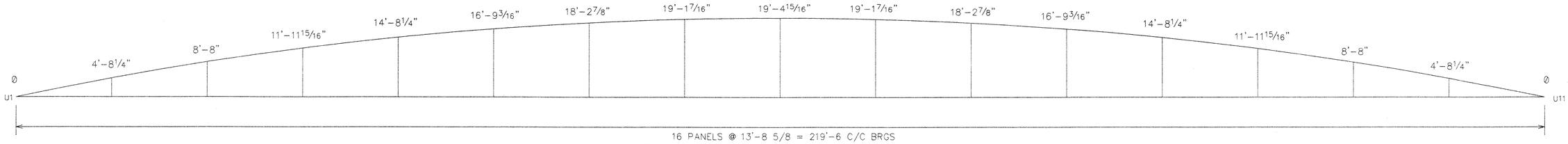
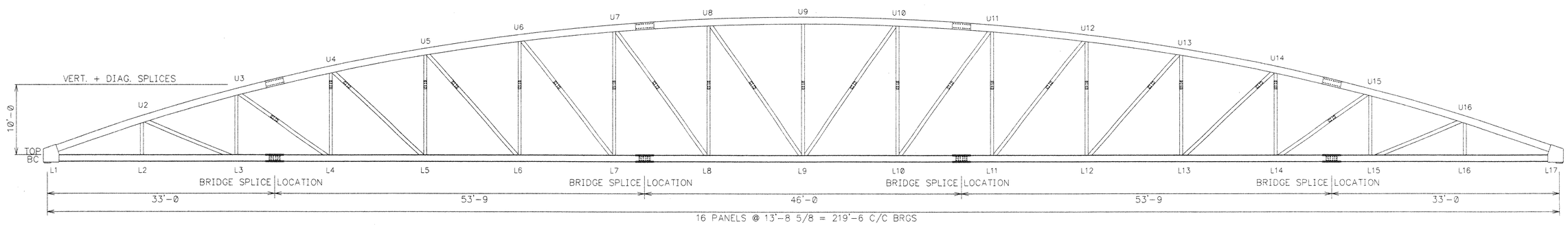
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON - COLCHESTER
SPAN 2 - 219'-6"
CHITTENDEN COUNTY, VERMONT

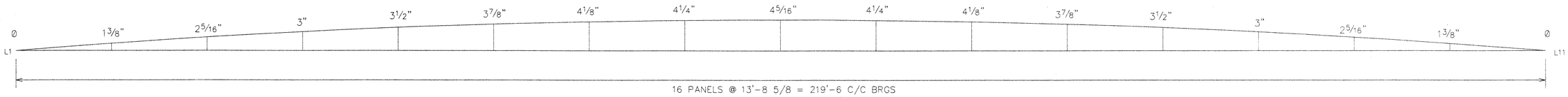
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 26, 2003	BURLINGTON 102	13 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



TOP CHORD CAMBER DIAGRAM

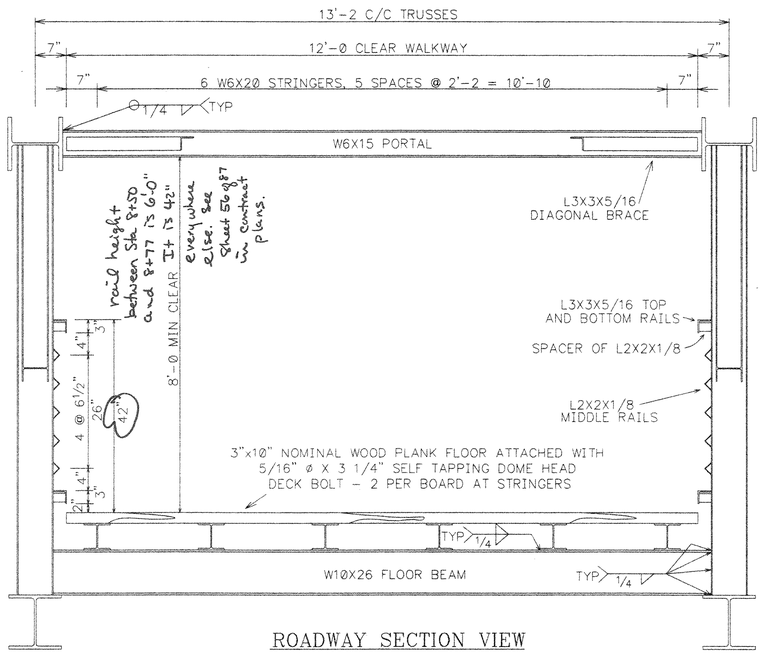


TRUSS BRIDGE ELEVATION VIEW – SPAN 3



BOTTOM CHORD CAMBER DIAGRAM

CAMBER TO OFFSET DEAD LOAD ONLY



ROADWAY SECTION VIEW

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

TRUSS MEMBER CHART	
TRUSS MEMBER	SIZE
TOP CHORD	W12X65
BOTTOM CHORD	W12X58
VERTICALS	W8X21
DIAGONALS	W6X15

GENERAL NOTES

ALL WELDED WEATHERING STEEL TRUSS BRIDGE

ALL SUPERSTRUCTURE STRUCTURAL STEEL ASTM A709 GR 50W WEATHERING TYPE STEEL (A588)

ALL WELDING PERFORMED IN COMPLIANCE WITH AMERICAN WELDING SOCIETY D1.5 BRIDGE WELDING CODE.

3" X 10" NOMINAL WOOD PLANK FLOORING SOUTHERN YELLOW PINE GRADE NO. 1, CCA TREATED 0.4 LBS PENETRATION.

TRUSS TOP AND BOTTOM CHORD CAMBER TOLERANCES SHALL BE AS SPELLED OUT IN AWS D1.5 (2002) TABLE 5.12 CAMBER TOLERANCE FOR TYPICAL GIRDER

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NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER
SPAN 3 – 219'-6"
CHITTENDEN COUNTY, VERMONT

DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
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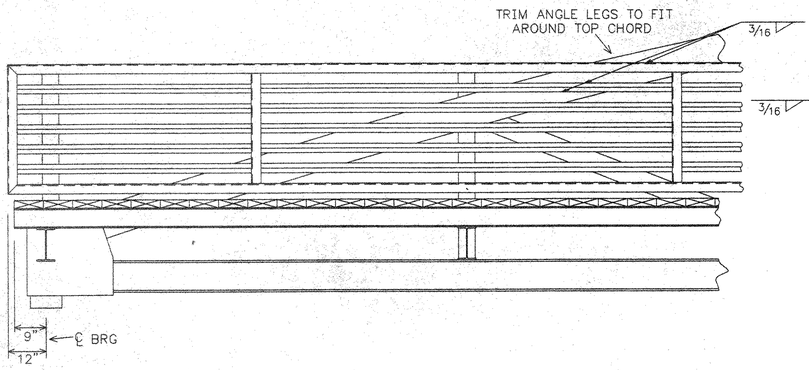
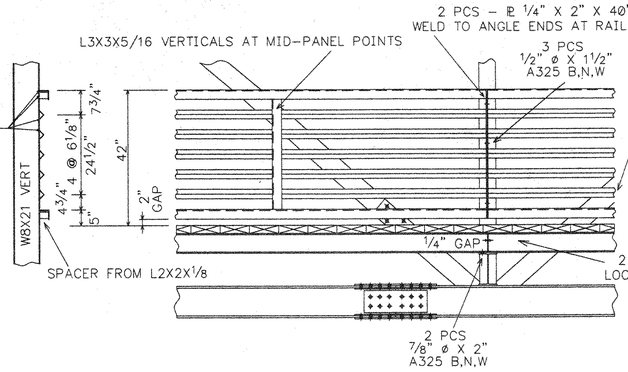
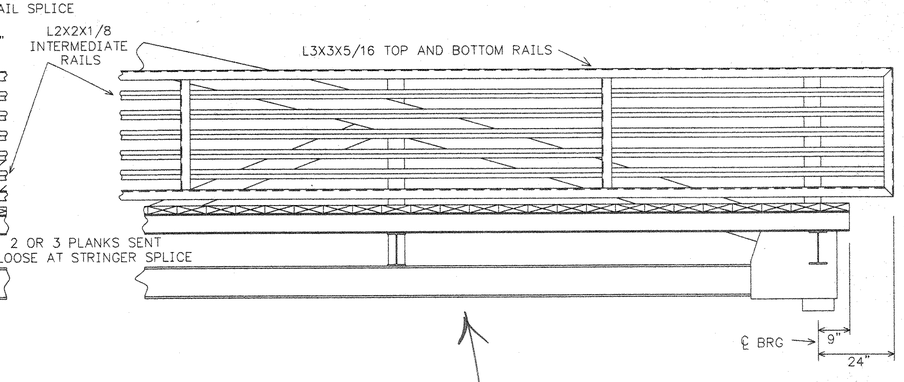
CHECK/DATE	FABRICATOR US BRIDGE			



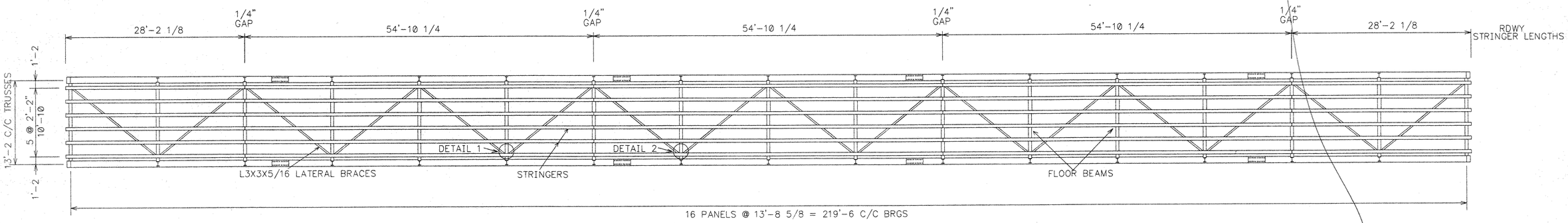
PIER 2





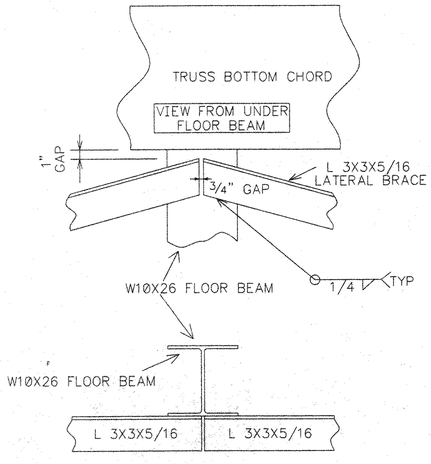
BRIDGE AND RAIL SPLICES

FORWARD (NORTH) ABUTMENT

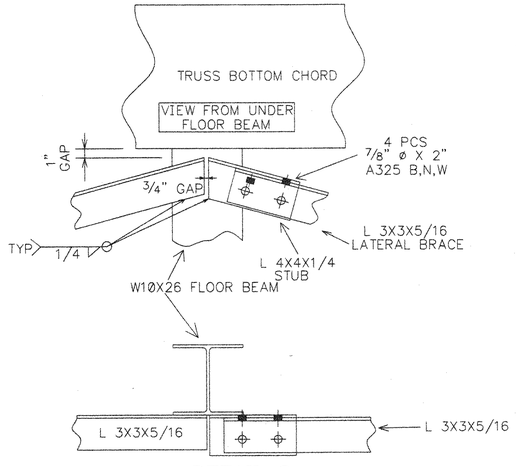


BRIDGE FLOOR FRAMING PLAN

per plans. rail height from 8+50 to 8+77 is 6'-0" see sheet 56 of 87. revise details to reflect this.



DETAIL 1
LATERAL BRACE DETAIL
10 LOCATIONS AS SHOWN
4 LOCATIONS SIMILAR (1 LATERAL)



DETAIL 2
LATERAL BRACE DETAIL
4 LOCATIONS AS SHOWN
AT TRUSS BOLTED CONNECTION PANELS

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

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NO.	DATE	REVISIONS	BY

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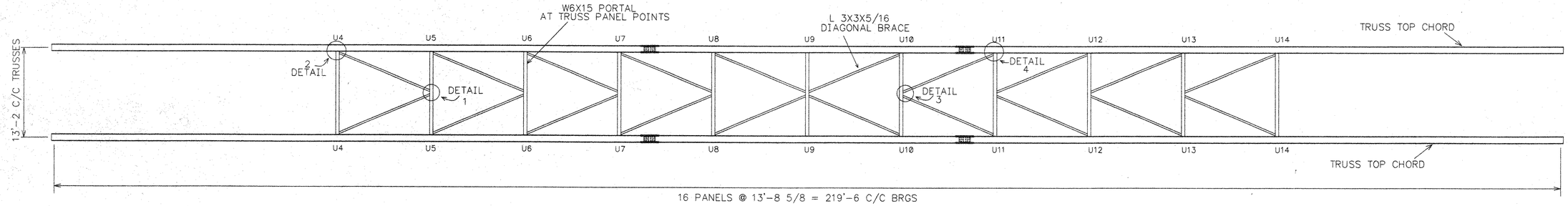
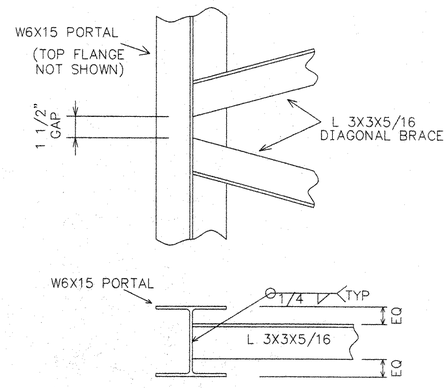
BURLINGTON – COLCHESTER
SPAN 3 – 219'-6"
CHITTENDEN COUNTY, VERMONT

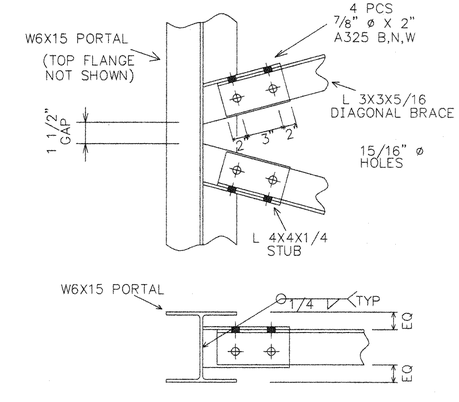
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 27, 2003	BURLINGTON 104	15 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



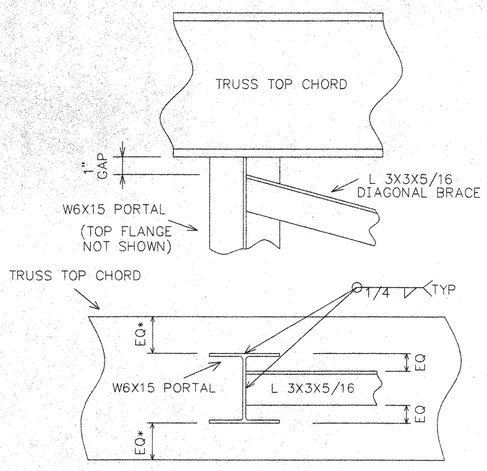
BRIDGE PORTAL DETAILS



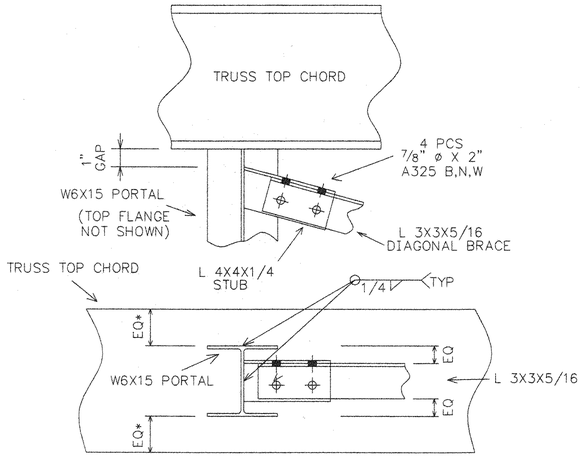
DETAIL 1
WELDED DIAGONAL BRACE CONNECTION
8 LOCATIONS



DETAIL 3
BOLTED DIAGONAL BRACE CONNECTION
AT TRUSS BOLTED BAY LOCATIONS
2 LOCATIONS



DETAIL 2
WELDED DIAGONAL BRACE AND PORTAL CONNECTION
16 LOCATIONS



DETAIL 4
BOLTED DIAGONAL BRACE CONNECTION
AT TRUSS BOLTED BAY LOCATIONS
4 LOCATIONS

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

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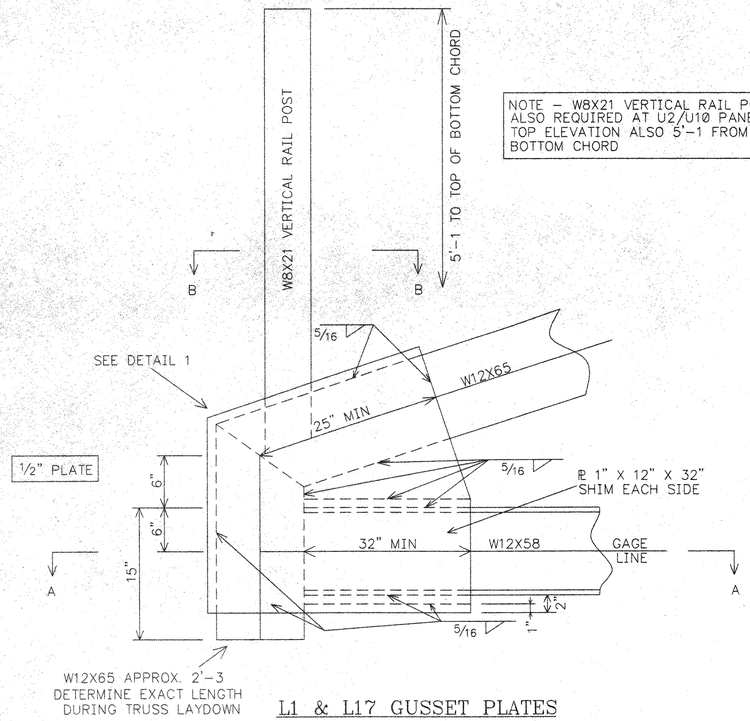
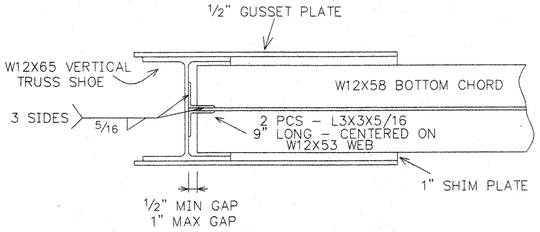
564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER
SPAN 3 – 219'–6"
CHITTENDEN COUNTY, VERMONT

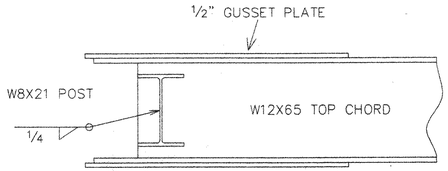
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 27, 2003	BURLINGTON	
CHECK/DATE	FABRICATOR US BRIDGE		105	16 OF 18



L1 & L17 GUSSET PLATES

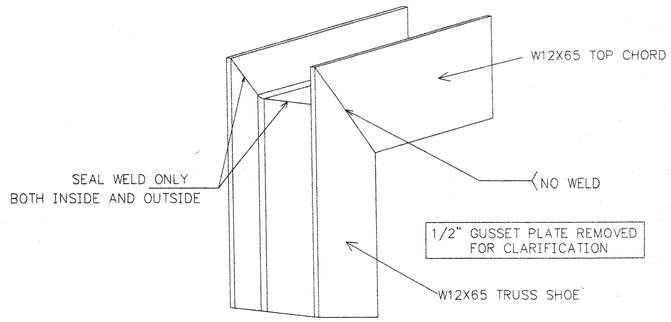


SECTION A–A



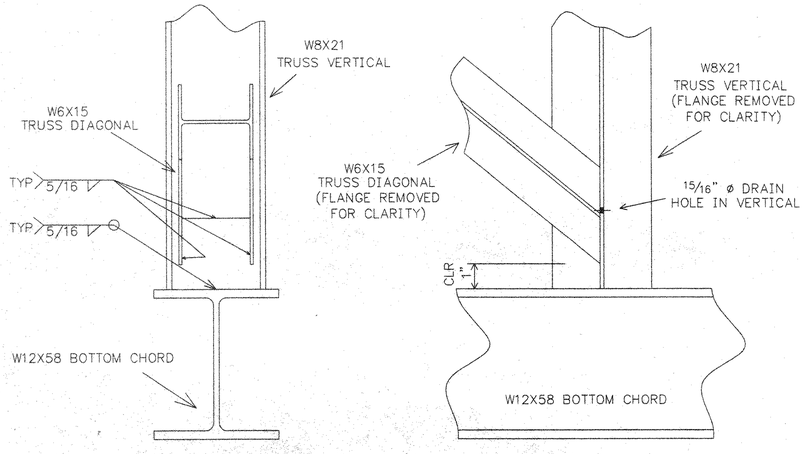
SECTION B–B

DETAIL SIMILAR AT U2 PANEL POINT



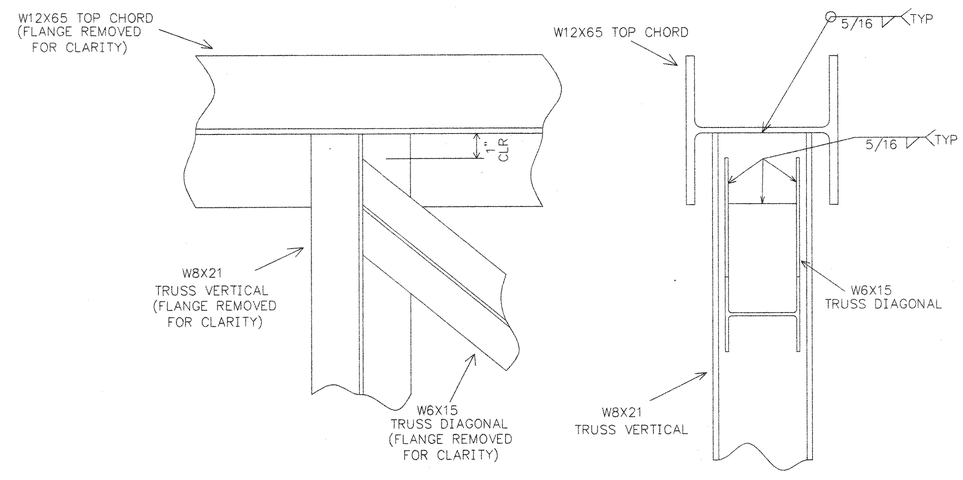
DETAIL 1

TRUSS SHOE TO TOP CHORD CONNECTION
2 LOCATIONS



WELD DETAILS AT BOTTOM CHORD PANEL POINTS

VERTICAL AND DIAGONAL CONNECTIONS AT BOTTOM CHORD
12 LOCATIONS
1 SIMILAR LOCATION (2 DIAGONALS)
2 SIMILAR LOCATIONS (VERTICAL ONLY)



WELD DETAILS AT TOP CHORD PANEL POINTS

VERTICAL AND DIAGONAL CONNECTIONS AT TOP CHORD
14 LOCATIONS
1 SIMILAR LOCATION (NO DIAGONAL)

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APR 2 3 2003
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BY DATE 4/24/03

NOTE: DRAWINGS RELATIVE (DO NOT SCALE)

NO.	DATE	REVISIONS	BY

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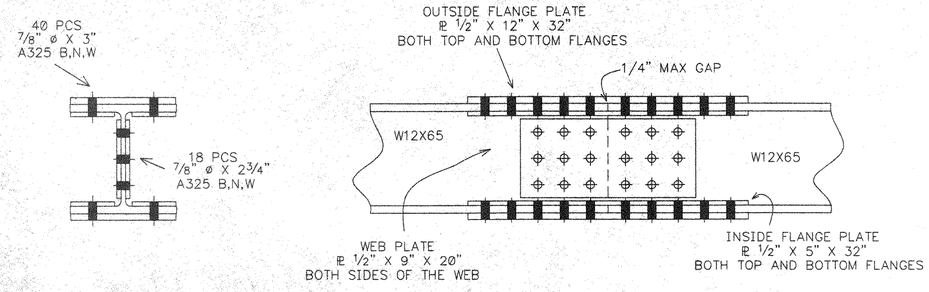
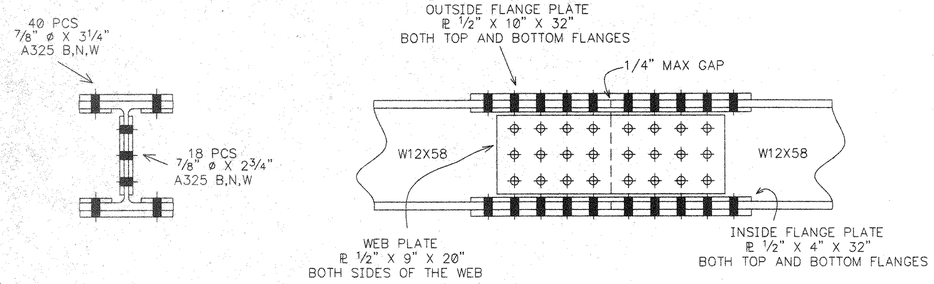
BURLINGTON – COLCHESTER
SPAN 3 – 219'–6"
CHITTENDEN COUNTY, VERMONT

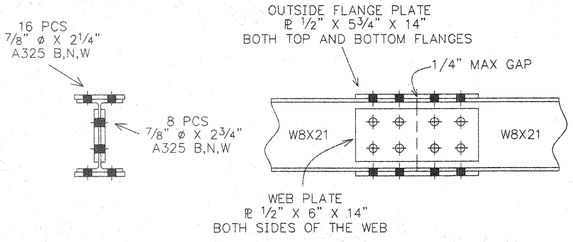
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 27, 2003	BURLINGTON 106	17 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



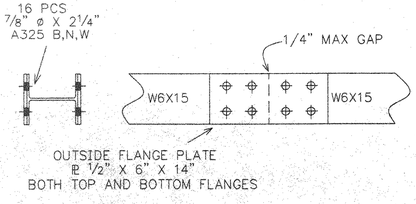
TYPICAL TOP CHORD SPLICE



TYPICAL BOTTOM CHORD SPLICE

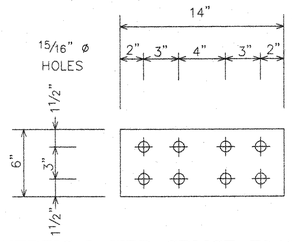


TYPICAL VERTICAL SPLICE



TYPICAL DIAGONAL SPLICE

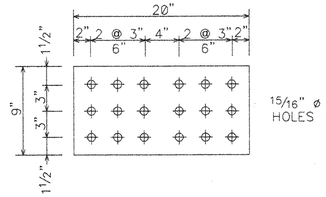
NOTE: DRAWINGS RELATIVE (DO NOT SCALE)



VERTICAL WEB SPLICE PLATES

℄ ½" X 6" X 14"

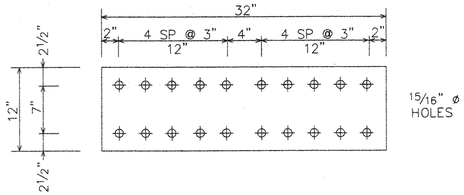
44 REQ'D



TOP AND BOTTOM CHORD WEB SPLICE PLATES

℄ ½" X 9" X 20"

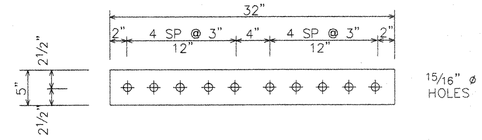
32 REQ'D



TOP CHORD OUTSIDE FLANGE SPLICE PLATES

℄ ½" X 12" X 32"

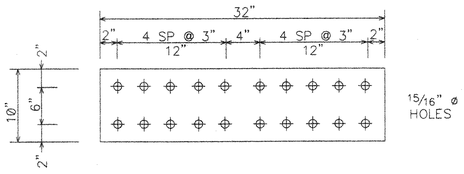
16 REQ'D



TOP CHORD INSIDE FLANGE SPLICE PLATES

℄ ½" X 5" X 32"

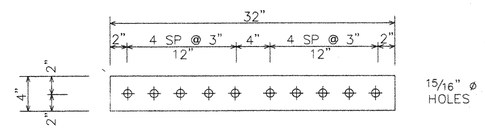
32 REQ'D



BOTTOM CHORD OUTSIDE FLANGE SPLICE PLATES

℄ ½" X 10" X 32"

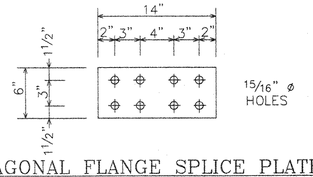
16 REQ'D



BOTTOM CHORD INSIDE FLANGE SPLICE PLATES

℄ ½" X 4" X 32"

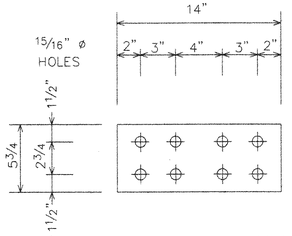
32 REQ'D



DIAGONAL FLANGE SPLICE PLATES

℄ ½" X 6" X 14"

48 REQ'D



VERTICAL FLANGE SPLICE PLATES

℄ ½" X 6" X 14"

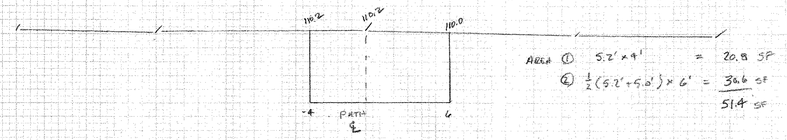
44 REQ'D

RECEIVED
CK'D BY MAM OK'D BY
APR 2 3 2003
RESUBMIT APPROVED
BY DATE 4/22/03

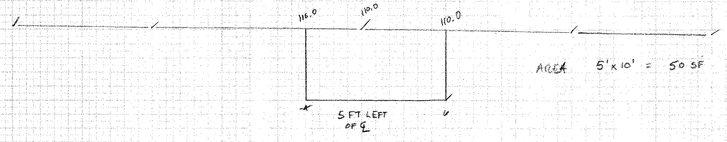
NO.	DATE	REVISIONS	BY

564' X 12' THREE SPAN PEDESTRIAN BRIDGE
BURLINGTON – COLCHESTER
SPAN 3 – 219'-6"
CHITTENDEN COUNTY, VERMONT

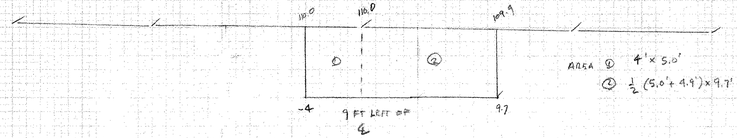
DESIGN	DRAWN	DATE	DRAWING NO.	SHEET
SAF	SAF	MAR. 27, 2003	BURLINGTON 107	18 OF 18
CHECK/DATE	FABRICATOR US BRIDGE			



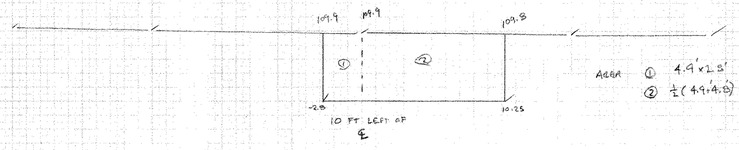
AREA ① 5.2' x 4' = 20.8 SF
② ½(5.2'+5.0') x 6' = 30.6 SF
51.4 SF



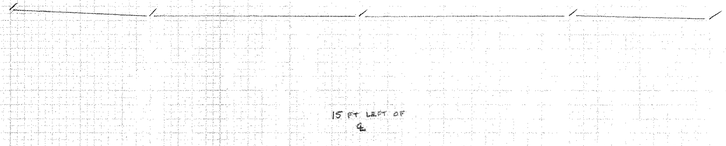
AREA 5' x 10' = 50 SF

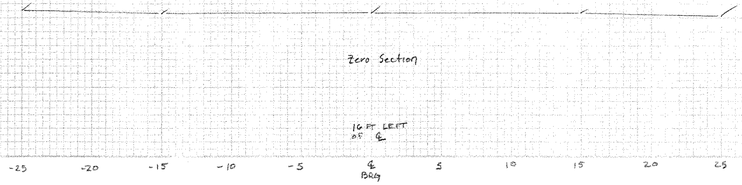


AREA ① 4' x 5.0' = 20.0 SF
② ½ (5.0'+4.9') x 9.7' = 48.05 SF
68.0 SF



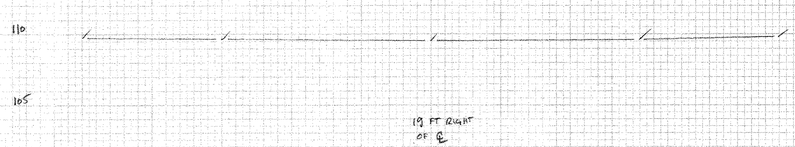
AREA ① 4.9' x 2.8' = 13.7 SF
② ½ (4.9+4.8) x 10.25' = 50 SF
18.7 SF

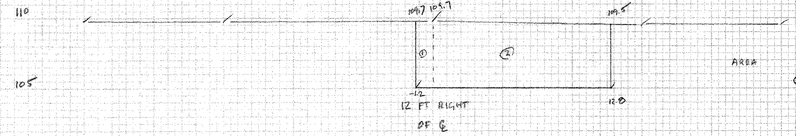




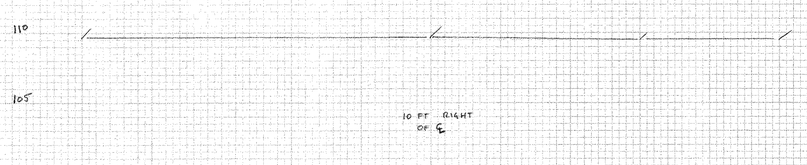
Position from ℄	Dist	Area, SF	Average Area	Volume, CF
16' LT	6'	0	9.35	56.1
10' LT	1'	18.7	43.35	43.35
9' LT	4'	68.0	59.0	236.0
5' LT	5'	50.0	50.7	253.5
℄	3'	51.4	49.55	247.75
5' RT	4'	47.7	55.55	222.2
9' RT	3'	63.4	63.95	191.85
12' RT	7'	64.5	32.25	225.75
19' RT		0		1476.15 CF

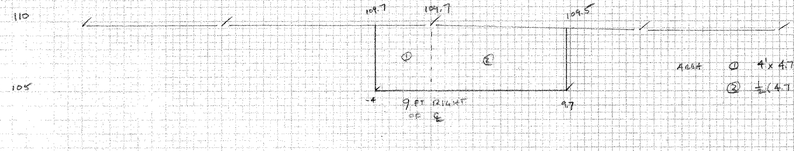
÷27 = 54.7 CY
4.9 CY
JSH 5/19/09



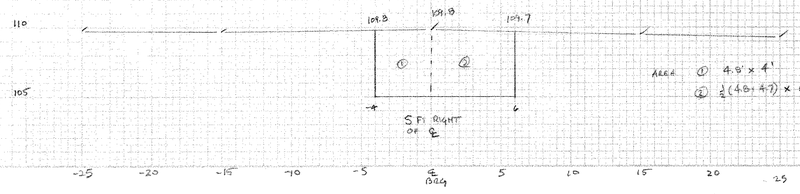


AREA ① 4.7' x 1.2' = 5.6 SF
② ½ (4.7'+4.3') x 12.5 = 58.9 SF
64.5 SF





AREA ① 4' x 4.7' = 18.8 SF
② ½(4.7+4.5) x 9.7' = 44.6 SF
63.4 SF



AREA ① 4.8' x 4' = 19.2 SF
② ½ (4.8+4.7) x 6' = 28.5 SF
TOTAL = 47.7 SF

Burlington - Colchester "SP Bike (48)
Abutment No 1 "Structure Sections

108 1" = 5 FT

ORIGINAL SURVEY FIELD BOOK NO
SURVEY CHECKED FIELD TIE STATIONS VERIFIED
BY
DATE