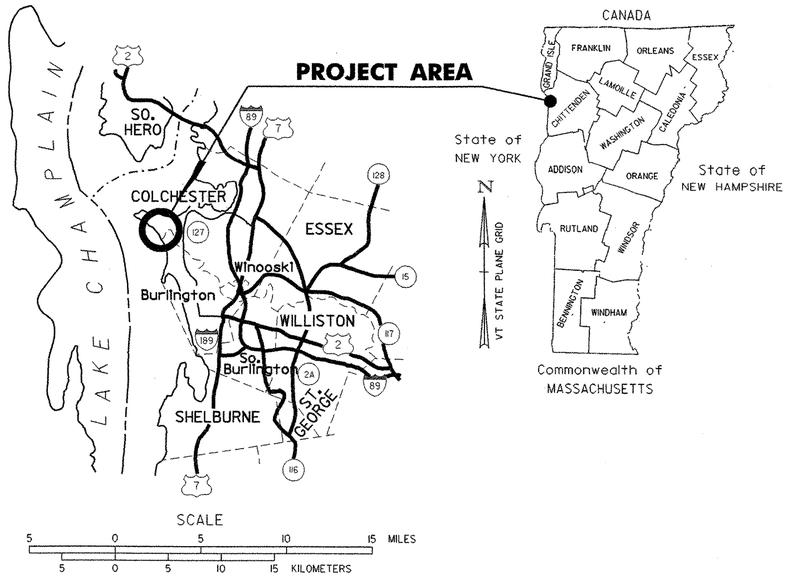
INDEX OF SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWN OF COLCHESTER
COUNTY OF CHITTENDEN



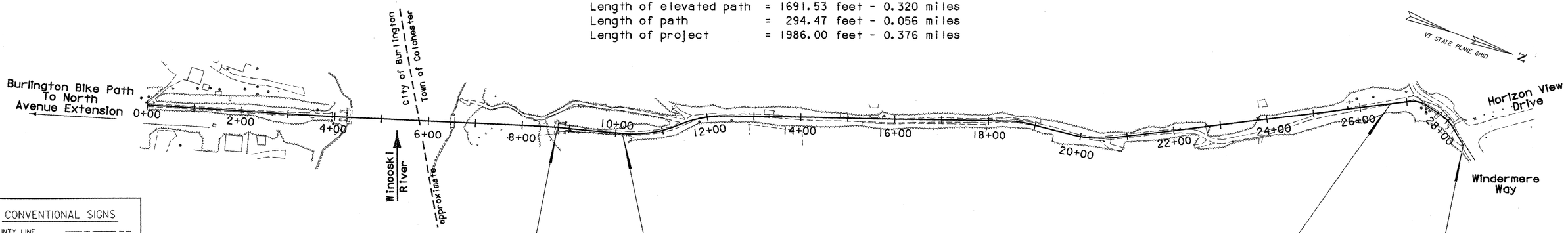
PROJECT LOCATION

Beginning in Colchester at a point on the existing bike path approximately 2176 feet northerly of the intersection of the bike path and North Avenue Extension, and extending northerly approximately 1986 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 construction of a new shared-use path.

Length of elevated path = 1691.53 feet - 0.320 miles
Length of path = 294.47 feet - 0.056 miles
Length of project = 1986.00 feet - 0.376 miles



RECORD PLANS

CONTRACTOR: KUBRICKY CONST. CORP.
RESIDENT ENGINEER: JOE KNIPES
CONSTRUCTION BEGAN: SEPTEMBER 02, 2003
CONSTRUCTION COMPLETE: JULY 19, 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 12·14·04

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
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 5/5/03

PROJECT MANAGER : CRAIG KELLER

PROJECT NAME : **Colchester**
PROJECT NUMBER : **STP Bike (48)**

SHEET 1 OF 87 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

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2. INDEX OF SHEETS
3. TYPICAL SHEET
4. BRIDGE TYPICAL AND ABUTMENT EARTHWORK
5-6. BLANK
7. TIE SHEET
8-9 QUANTITY SHEETS
10-14. BLANK
15-20. R.O.W. DETAIL SHEETS
21. BLANK
22-25. PLAN AND PROFILE SHEETS
26-28. RESOURCE LAYOUTS & EROSION CONTROL SHEETS
29. BLANK
30-31. GENERAL NOTES
32. BLANK
33. TRAFFIC SIGN AND PAVEMENT MARKING SHEETS
34-36. BORING LOGS
37. BLANK
38. PLAN AND ELEVATION SHEET
39. SECTION VIEW OF ELEVATED PATH
40. PILE DETAILS
41. PILE CAP AND BEAM DETAILS
42. PRESTRESS FIELD CONNECTION DETAILS
43. PRESTRESS DETAILS, SPANS 1, 2, AND 3
44. PRESTRESS DETAILS, SPAN 4
45. PRESTRESS DETAILS, SPAN 5
46. PRESTRESS DETAILS, SPAN 6
47. PRESTRESS DETAILS, SPANS 7-18, 21 AND 25-37
48. PRESTRESS DETAILS, SPAN 19
49. PRESTRESS DETAILS, SPAN 20
50. PRESTRESS DETAILS, SPAN 22
51. PRESTRESS DETAILS, SPAN 23
52. PRESTRESS DETAILS, SPAN 24
53-55. RAILING SHEETS- ALTERNATE 1
56-57. FENCE DETAILS- ALTERNATE 1
58-60. BLANK
61-62. RAIL DETAILS - ALTERNATE 2
63. FENCE DETAILS - ALTERNATE 2
64-65 BLANK
66. PATH ABUTMENT 1 LAYOUT AND REINFORCING
67. PATH ABUTMENT 2 LAYOUT AND REINFORCING
68. PATH WINGWALL DETAILS
69. REINFORCING STEEL SCHEDULE
70. BLANK
71-86. CROSS SECTION SHEETS
87. BLANK

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

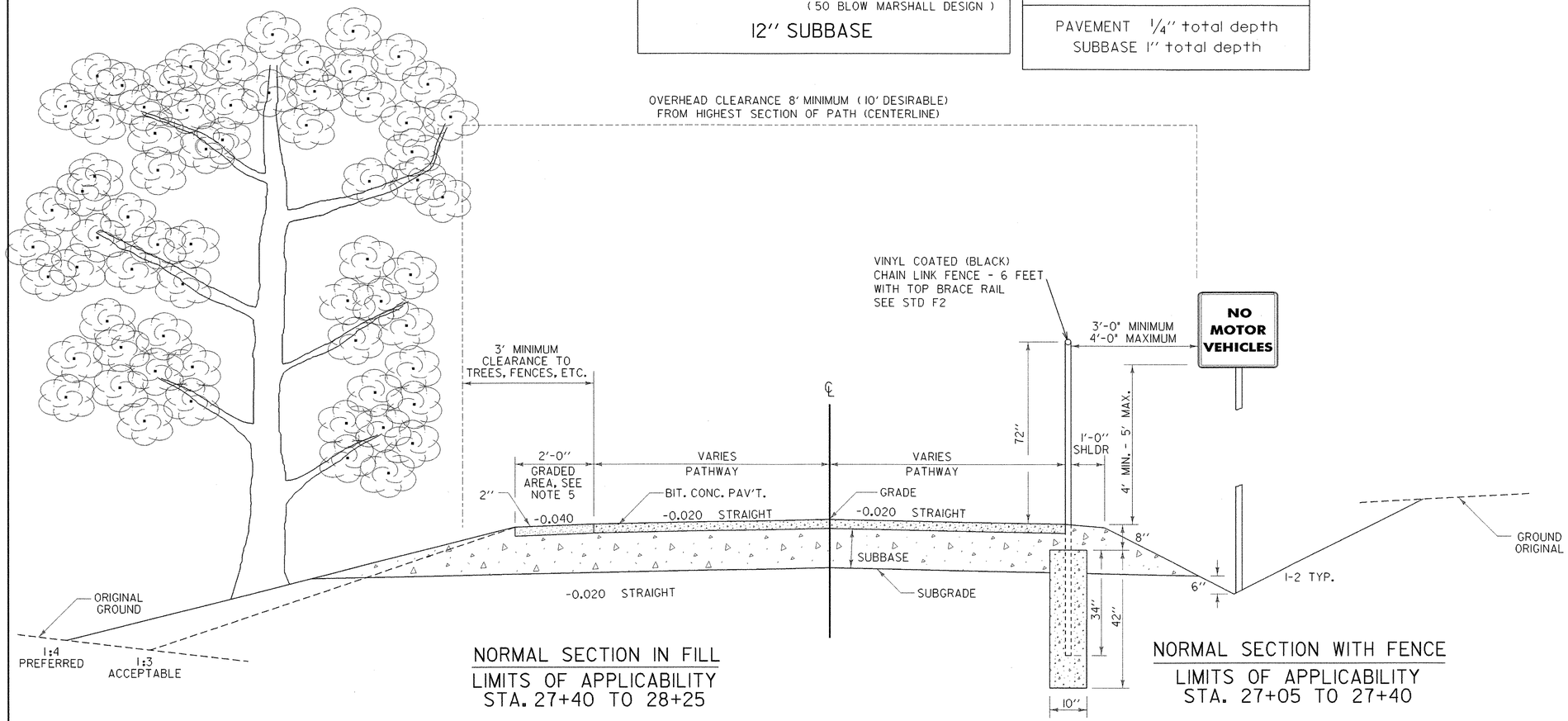
T-1 TEMPORARY EROSION CONTROL DETAILS
T-2 TEMPORARY EROSION CONTROL DETAILS

PROJECT NAME:	**Colchester**
PROJECT NUMBER:	**STP BIKE (48)**
FILE NAME:	PLOT DATE: **07/22/2003**
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**

scan_ind

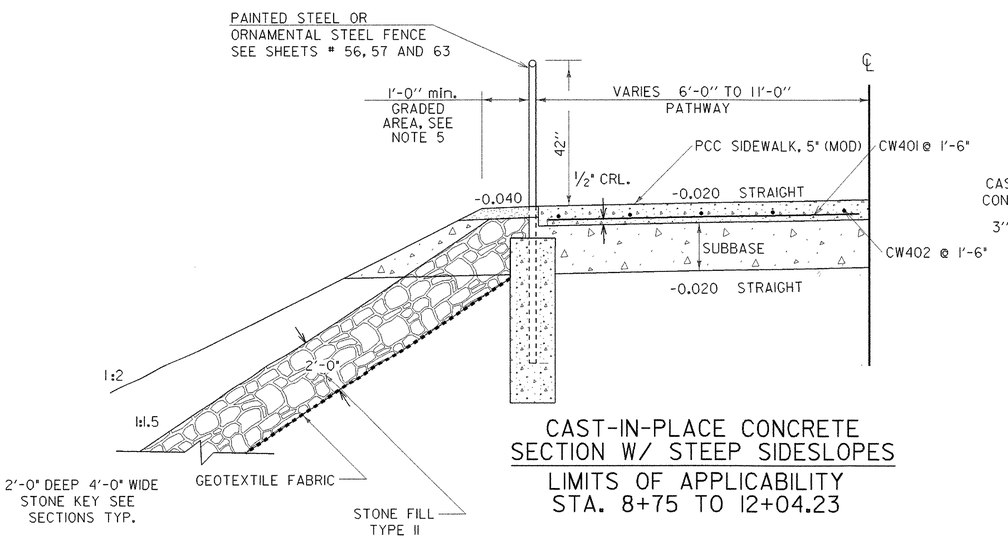
2'' BIT. CONC. PAV'T. TYPE III (50 BLOW MARSHALL DESIGN) 12'' SUBBASE

THICKNESS TOLERANCES
PAVEMENT 1/4'' total depth
SUBBASE 1'' total depth

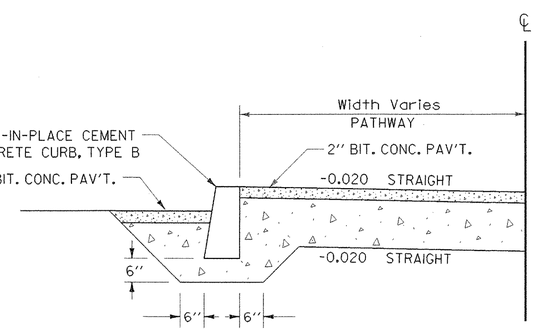


NORMAL SECTION IN FILL
LIMITS OF APPLICABILITY
STA. 27+40 TO 28+25

NORMAL SECTION WITH FENCE
LIMITS OF APPLICABILITY
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:

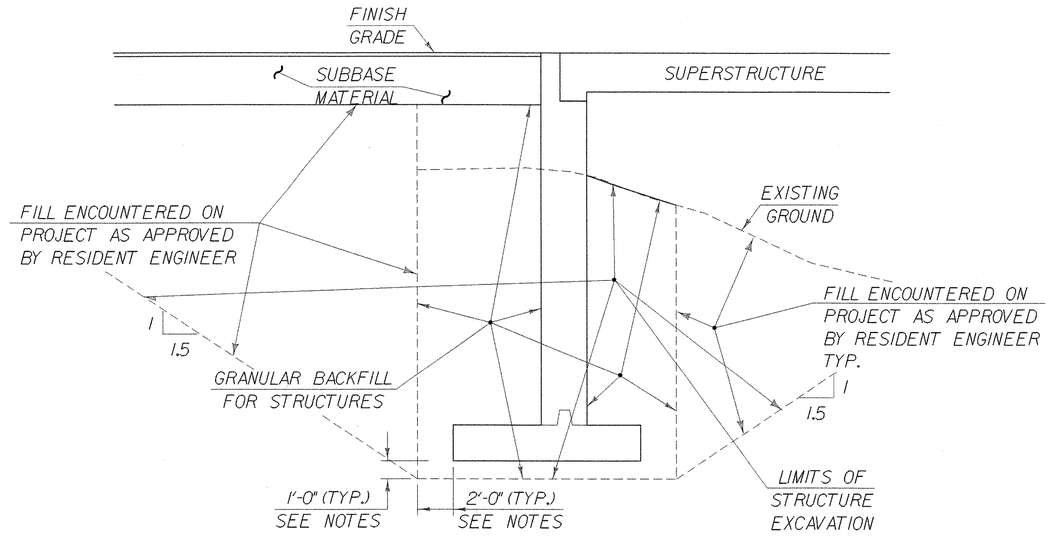
a. WHEN THERE IS A FENCE ADJACENT TO THE PATH, THE SHOULDER AREA SHALL BE PAVED TO THE SAME DEPTH AS THE PATH.

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:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038typ.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY: M.E.M.
sf038typ.i	SHEET 3 OF 87



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

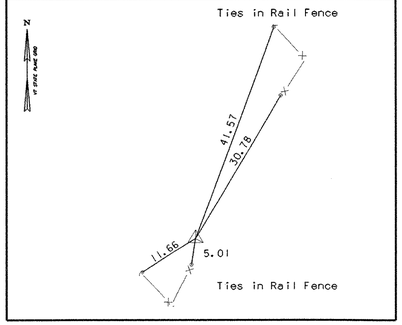
Town Of COLCHESTER	Bridge No. sf038blypj
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
ABUTMENT EARTHWORK DETAILS AND TRUSS TYPICAL SECTION	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By Date	Bridge Design Supervisor C.KELLER Date
PROJECT COLCHESTER	PROJECT NO. STP BIKE (48)
I.G.C. Info \\vtaot_cadd\filingcabinet$\03f038\Structures\sf038subdgn	sf038blypj
Bridge Sheet No.	Sheet 4 of 87

PLOTTED 05-AUG-2003

GPS CONTROL POINTS

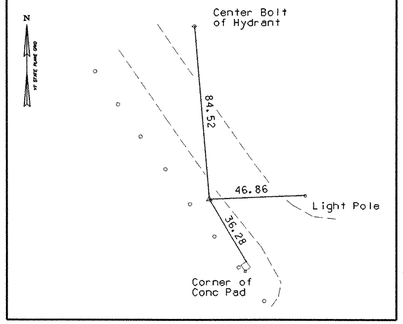
Colchester Temp 1

N = 743823.785
E = 1437672.521
Z = 103.44



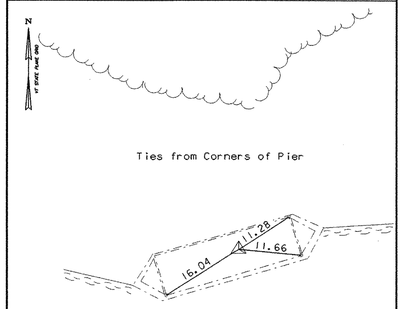
Colchester Temp 2

N = 743321.217
E = 1437988.321
Z = 102.13



Abut (Trav Pt 14)

N = 741243.1959
E = 1438758.937
Z = 104.46

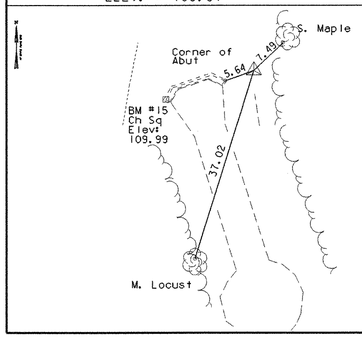


•TO ALLOW THE STATE PLANE COORDINATES TO FIT THE AGENCY DESIGN PLANE, SUBTRACT 700,000 FROM THE NORTHING AND SUBTRACT 1,400,000 FROM THE EASTING.
• NO DESCRIPTIONS WERE PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT FOR THESE MARKS AS THEY ARE CONSIDERED TEMPORARY

TRAVERSE TIES

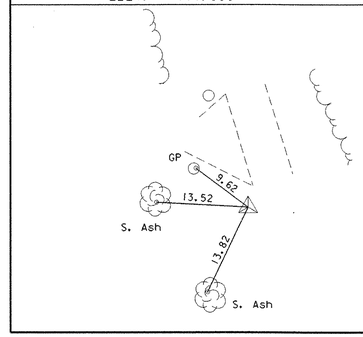
Trav Pt 15

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: Colchester
PROJECT NUMBER: STP BIKE (48)

FILE NAME: 01f132/survey/xf132ti.dgn
PROJECT LEADER: C. S.Keller
DESIGNED BY:
sf038tie.l

PLOT DATE: 05-AUG-2003
DRAWN BY: R. Bullock
CHECKED BY:
SHEET 7 OF 87

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES																TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
					PATH ABUT 1	PATH ABUT. 2						FULL E & C	EROSION CONTROL		PATH	RAISED PATH	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
															0.35			0.35		ACRE	THINNING AND TRIMMING (MOD)	201.30			
															184			184		CY	COMMON EXCAVATION	203.15			
					48	72										120		120		CY	STRUCTURE EXCAVATION	204.25			
					50	61										111		111		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30			
															225			225		CY	SUBBASE OF GRAVEL	301.15			
													10					10		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35			
															2.00			2		TON	AGGREGATE SHOULDERS (MOD)	402.12			
															25			25		TON	MEDIUM DUTY BIT. CONC. PAVEMENT	406.27			
					9	11										20		20		CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34			
																1		1		LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.10			
																4160		4160		LF	CAST-IN-PLACE CONCRETE PILING	505.25			
					1346	1250									2110	2596		4706		LB	REINFORCING STEEL	507.15			
																36		36		EACH	PRESTRESSED CONCRETE MEMBER (MOD) (PILE CAPS) (12')	510.20			
																148		148		EACH	PRESTRESSED CONCRETE MEMBER (MOD) (3' SLAB)	510.20			
																1		1		EACH	REMOVAL OF STRUCTURE (MOD) (15+50 LT)	529.15			
															1			1		EACH	REMOVAL OF STRUCTURE (8+90 RT)(TIMBER WALL)	529.15			
																592		592		EACH	BEARING DEVICE ASSEMBLY	531.10			
															1			1		HR	BULLDOZER RENTAL, TYPE I	608.10			
															3			3		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25			
															5			5		HR	TRUCK RENTAL	608.37			
															3			3		HR	LOADER RENTAL, TYPE I	608.40			
																20		20		CY	STONE FILL, TYPE I	613.10			
													20					20		CY	STONE FILL, TYPE II	613.11			
															25			25		LF	CAST-IN-PLACE CEMENT CONCRETE CURB, TYPE B	616.28			
															240			240		SY	PORTLAND CEMENT CONC. SIDEWALK, 5 INCH (MOD)	618.10			
															1			1		EACH	WOOD MARKER POSTS	619.15			
															74			74		LF	CHAIN LINK FENCE, 6 FEET (MOD) (TOP POLE INCLUDED)	620.12			
															4			4		EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET	620.21			
															30			30		LF	REMOVING AND RESETTING FENCE (27+20 TO 27+50 LEFT)	620.50			
															80			80		LF	REMOVAL OF EXISTING FENCE (MOD) (22+65, 23+85, & 28+25)	620.55			
																4958		4958		LF	SNOW FENCE	620.70			
												1						1		LS	FIELD OFFICE-ENGINEERS	631.10			
												1						1		LS	TESTING EQUIPMENT - CONCRETE	631.16			
												1						1		LS	TESTING EQUIPMENT - BITUMINOUS	631.17			
												1						1		LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25			
															1			1		LS	MOBILIZATION	635.10			
															114			114		LF	4" YELLOW LINE	646.21			
															6			6		EA	LETTER OR SYMBOL	646.30			
													55					55		SY	GEOTEXTILE UNDER STONE FILL	649.31			
													160					160		SY	GEOTEXTILE FOR SILT FENCE	649.51			

PROJECT NAME: **COLCHESTER**
PROJECT NUMBER: **STP BIKE(48)**

FILE NAME: **sf038quant.xls**
PROJECT LEADER: **C. KELLER**
DESIGNED BY: **J. GEORGE**
QUANTITY SHEET #1

PLOT DATE: **07/30/2003**
DRAWN BY: **J. GEORGE**
CHECKED BY: **M.E.M.**
SHEET **8** OF **87**

scan_qty1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES																TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
					PATH ABUT 1	PATH ABUT. 2						FULL E & C	EROSION CONTROL		PATH	RAISED PATH	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
															7			7		SF	TRAFFIC SIGNS, TYPE A	675.20			
															11			11		EACH	REMOVING SIGNS	675.50			
															60			60		LF	FLANGED CHANNEL SIGN POST	675.301			
															1			1		EACH	RELOCATE INFORMATION PLAZA, TYPE A (MOD)	680.40			
																					ALTERNATE 1 ITEMS				
																3450		3450		LF	METAL HAND RAILING (MOD) (FASCIA MOUNTED PAINTED STEEL) - **ALTERNATE 1**	525.15			
															275			275		LF	CHAIN LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL)- **ALTERNATE 1**	620.12			
															6			6		LF	GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.)(PAINTED STEEL) -**ALTERNATE 1**	620.16			
																					ALTERNATE 2 ITEMS				
																3450		3450		LF	METAL HAND RAILING (MOD.)(TOP MOUNTED ORNAMENTAL STEEL) - **ALTERNATE 2**	525.15			
															275			275		LF	CHAIN LINK FENCE, 6 FEET (MOD.) (ORNAMENTAL STEEL)- **ALTERNATE 2**	620.12			
															6			6		LF	GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.)(ORNAMENTAL STEEL) -**ALTERNATE 2**	620.16			

PROJECT NAME:	**COLCHESTER**
PROJECT NUMBER:	**STP BIKE(48)**
FILE NAME:	**sf132quant.xls**
PROJECT LEADER:	**C. KELLER**
DESIGNED BY:	**J. GEORGE**
QUANTITY SHEET #2	
PLOT DATE:	**07/30/2003**
DRAWN BY:	**J. GEORGE**
CHECKED BY:	**M.E.M.**
SHEET	**9** OF **87**

scan_qty2

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)				BURLINGTON			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.					COLCHESTER			PIER
			6+47 RT.	27+07 LT.			EASEMENT	(P)	0.77A±						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		

ACCT.mcassidy
\\vaot_cadd\filingcabinet$\01fi32\RightOfWay\rfi32d.dgn
DATE PLOTTED 05-AUG-2003

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
P PROPERTY LINE
L 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

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.

WINOOSKI VALLEY PARK DISTRICT (1B)

VT STATE PLANE GRID N

MATCHLINE 6+52.00

MATCHLINE 12+50.00

Sand

Woods

Wet area

Boardwalk

Wooden Kiosk

Sign

Stone Fill

Cone Abut

Wood Crib Wall with Fence

CONST (T)

REMOVE (T)

ACCESS (T)

REMOVE & RESET (T) Boardwalk

Remove

EASE. (P)

20'

ALL R. T. I.

N17°05'58.95"W

N14°29'38.06"W

N12°52'48.13"W

N12°52'14.59"W

8+00

9+00

10+00

11+00

12+00

SR (P)

INSTALL & MAINTAIN (P)

Dirt Path

To Colchester

Sta 8+76.41 PI

Sta 10+77.17 PC

Sta 11+37.65 PT

Sta 11+90.80 PI

Sta 12+42.23 PT

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

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

Do not Disturb
Bollard Fence

GATE FOR CHAIN LINK FENCE, 6 FEET (MOD.)
STA. 9+98. TO 10+04 LT.

BEGIN ELEVATED CONCRETE PATH
STA. 10+14.25
F.G. 106.47

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

TOWN OF COLCHESTER

WET LAND LIMITS
SILT FENCE
SNOW FENCE

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

C.L. PIER 1
STA. 10+52.23
E.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+69.57
F.G. 104.25

C.L. PIER 5
STA. 12+15.24
F.G. 104.25

8+76.00
BEGIN PROJECT
COLCHESTER
STP BIKE(48)

PVI 6+55.00
ELEV 118.60

PVI 10+14.23
ELEV 106.47

PVI 11+28.23
ELEV 104.25

-3.3765%

-1.9480%

0.0000%

Q100 mflev. 102.0
Q50 flev. 101.8
Q10 flev. 101.0

| | | |

VT STATE PLANE GRID

N

WINOOSKI VALLEY PARK DISTRICT
(1B)

C.L. PIER 7
STA. 13+08.03
F.G. 104.25

C.L. PIER 8
STA. 13+54.74
F.G. 104.25

C.L. PIER 9
STA. 14+01.45
F.G. 104.25

C.L. PIER 10
STA. 14+48.16
F.G. 104.25

C.L. PIER 11
STA. 14+94.87
F.G. 104.25

C.L. PIER 12
STA. 15+41.58
F.G. 104.25

C.L. PIER 13
STA. 15+88.29
F.G. 104.25

C.L. PIER 14
STA. 16+35.00
F.G. 104.25

C.L. PIER 15
STA. 16+81.71
F.G. 104.25

C.L. PIER 16
STA. 17+28.42
F.G. 104.25

C.L. PIER 17
STA. 17+75.13
F.G. 104.25

C.L. PIER 6
STA. 12+61.32
F.G. 104.25

Remove & Salvage Lookout See Special Provisions for stockpile location

Raised Wooden Lookout

To Burlington

To Colchester

MATCHLINE 12+50.00

MATCHLINE 18+00.00

EASE. (P)

CONST (T)

REMOVE (T)

20'

N18°52'48.13"W

Dirt path

Woods

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

N16°32'31"W 922.52'

FORMER EAST LINE RR R.O.W. - BEGIN CURVE
N 41873.23
E 38613.49

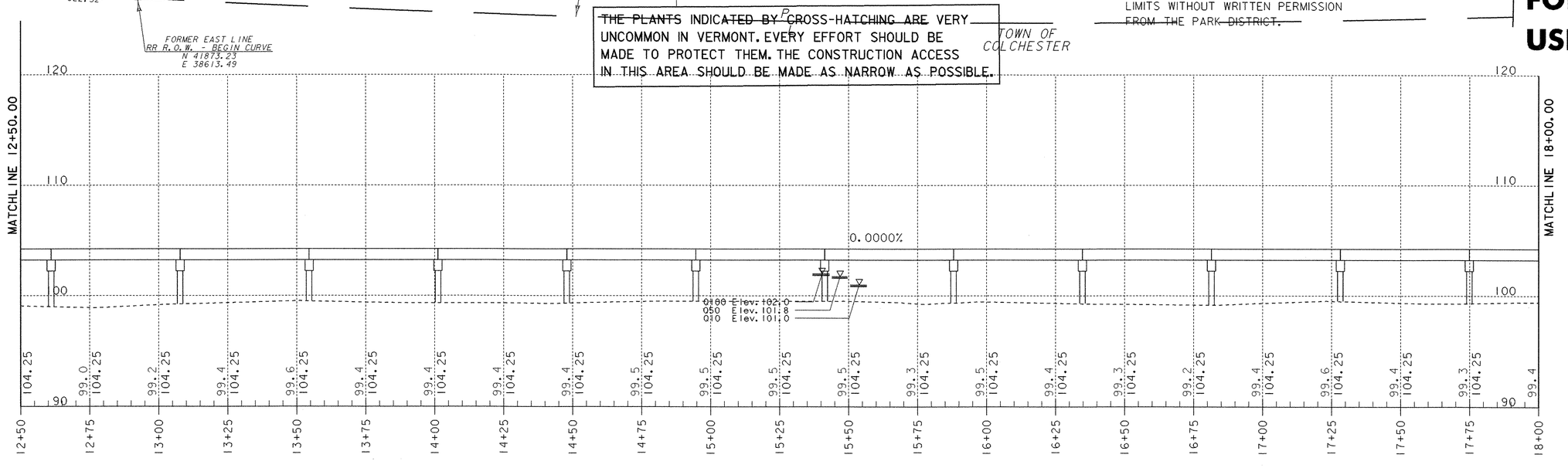
WINOOSKI VALLEY PARK DISTRICT
(1B)

TOWN OF COLCHESTER

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

FOR R.O.W. USE ONLY

~~THE PLANTS~~ INDICATED BY ~~CROSS-HATCHING ARE~~ VERY UNCOMMON IN VERMONT. EVERY EFFORT SHOULD BE MADE TO PROTECT THEM. THE CONSTRUCTION ACCESS IN THIS AREA SHOULD BE MADE AS NARROW AS POSSIBLE.



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.

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
PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:

R. O. W. SHEET 7 OF 9 SHEETS

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

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. PIER 18
STA. 18+21.84
F.G. 104.25

C.L. PIER 19
STA. 18+67.86
F.G. 104.25

C.L. PIER 20
STA. 19+13.91
F.G. 104.25

C.L. PIER 21
STA. 19+60.62
F.G. 104.25

C.L. PIER 22
STA. 20+06.72
F.G. 104.25

C.L. PIER 23
STA. 20+52.39
F.G. 104.25

C.L. PIER 24 (1B)
STA. 20+98.57
F.G. 104.25

C.L. PIER 25
STA. 21+45.28
F.G. 104.25

C.L. PIER 26
STA. 21+91.99
F.G. 104.25

C.L. PIER 27
STA. 22+38.70
F.G. 104.25

C.L. PIER 28
STA. 22+85.41
F.G. 104.25

C.L. PIER 29
STA. 23+32.12
F.G. 104.25

PI Sta 18+67.24
PC Sta 19+79.90
PT Sta 20+74.89
PC Sta 20+27.97

MATCHLINE 18+00.00
MATCH LINE 23+50.00

To Burlington
To Colchester

Woods
Woods

N18°52'13"W
N5°18'54.11"W
N27°05'11.80"W

EASE. (P)
CONST (T)
20'
Dirt path
Boardwalk

WINOOSKI VALLEY PARK DISTRICT
WINOOSKI VALLEY PARK DISTRICT (1B)

CALC. POINT
N 42406.84
E 38378.95

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

PC Sta 18+37.59
PT Sta 18+96.10
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

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

TOWN OF COLCHESTER

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

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

Bollard Fence **Remove** (P)
Sign **Remove**

0.0000%
0100 Elev. 102.0
050 Elev. 101.8
010 Elev. 101.0

FOR R.O.W. USE ONLY

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.

0 20 40
SCALE IN FEET

PROJECT NAME: Burlington - Colchester
PROJECT NUMBER: STP Bike(45)
FILE NAME: \str5\01f132\sf132bdr.dgn
PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller
DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon
CHECKED BY:
R. O. W. SHEET 8 OF 9 SHEETS
SHEET 19 OF 87

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

C.L. PIER 30
STA. 23+78.83
F.G. 104.25

C.L. PIER 31
STA. 24+25.54
F.G. 104.25

C.L. PIER 32
STA. 24+72.25
F.G. 104.25

C.L. PIER 33
STA. 25+18.96
F.G. 104.25

C.L. PIER 34
STA. 25+65.67
F.G. 104.25

C.L. PIER 35
STA. 26+12.38
F.G. 104.25

C.L. PIER 36
STA. 26+59.09
F.G. 104.25

C.L.BRG. PATH
ABUTMENT #2
STA. 27+05.28
F.G. 104.01

WINOOSKI VALLEY PARK DISTRICT
1B

TOWN OF COLCHESTER

MATCH LINE 23+50.00

To Burlington

REMOVE (T) Bollard Fence **Remove**

EASE. (P)

N27°05' 11.80"W

24+00

25+00

26+00

27+00

Boardwalk

Dirt path

Dirt path

Path to raised wooden lookout

Woods

Woods

Do not Disturb Bollard Fence

Bollard Fence **Do not Disturb**

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

INSTALL & MAINTAIN (P)

CONST (T)

SR (P)

EASE. (P)

END ELEVATED CONCRETE PATH
STA. 27+05.78

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

WET LAND LIMITS
SILT FENCE
SNOW FENCE

NO CONSTRUCTON PERSONNEL OR EQUIPMENT ALLOWED ~~OUTSIDE~~ THESE LIMITS ~~WI~~THOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

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

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

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

N37°32' 27"W 60.00'

N52°27' 33"E

N30°29' 33"E 109.75'

N37°32' 27"W

Sta 27+25.58 PT

Sta 27+41.89 PT

Sta 27+07.90 PC

Sta 27+13.15 PT

Sta 28+24.02 PT

Sta 28+62 PC

ROW / PI
N 43146.98
E 38006.35

ROW ANGLE POINT
N 43241.54
E 38062.04

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

Remove & Reset Kiosk See General Notes

Sumac
Locust

Wooden Kiosk

2 Signs **Remove**

Remove wood Fence

wood Fence

wood Fence

Gate

To Colchester

Existing paved bikepath

Windermere Way

Horizon View Drive

TOWN OF COLCHESTER

N 43274.06
E 38011.56

Colchester Temp. Pt. # 2

Concrete Pad

BND.

TO EXIST. BND.
N35°19' 37"W
198.31'

TO EXIST. I.P.
N35°21' 02"W
239.15'

Hydrant

Light Pole

I.P.

N 43316.08
E 38043.37

N/F
VILLERE, JOHN C. & CARON, DENISE A.

N37°16' 37"E

I.P.

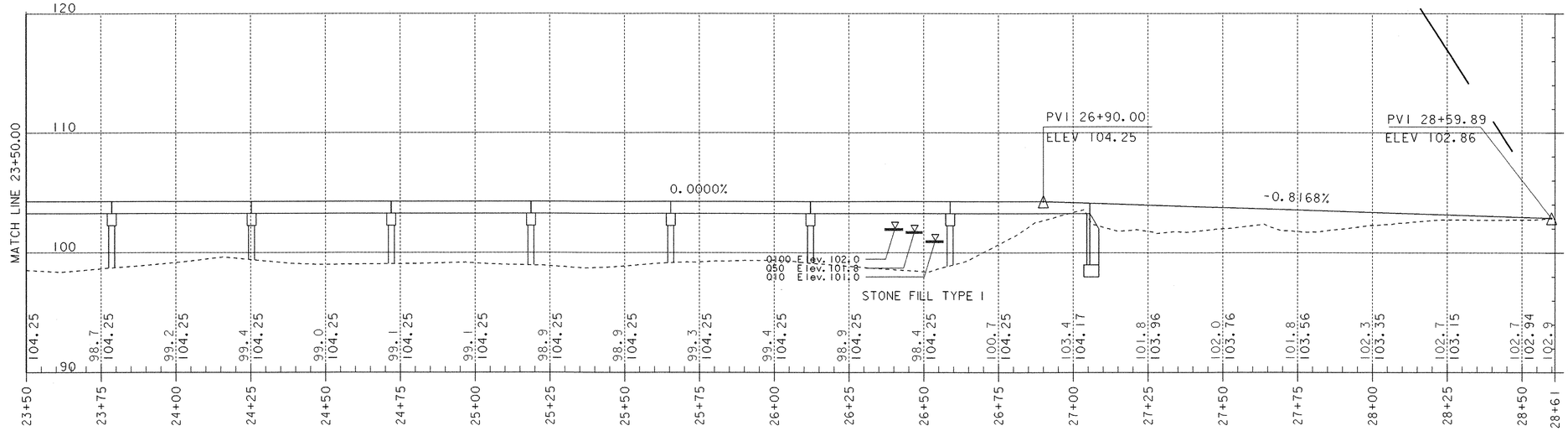
END R.O.W. PROJECT
STA. 27+14 11'LT.

VT STATE PLANE GRID

N

28+62.00
END PROJECT
COLCHESTER
STP BIKE(48)

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



FOR R.O.W. USE ONLY

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.

0 20 40
SCALE IN FEET

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

FILE NAME: \str5\01f132\sf132bdr.dgn PLOT DATE: 05-AUG-2003
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

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.

VT STATE PLANE GRID N

Sand
Woods
Boardwalk
Sign
Wooden Kiosk
Remove
Stone Pit
N17°05'58.95"W
8+00
Sand
Woods
Wet area
Woods
Conc Abut
Wood Crib Wall with Fence
STONE FILL, TYPE II
Sta 8+76.41
PI
Remove existing timber wall, including steel posts, to existing ground surface
Woods
C.L.BRG. PATH ABUTMENT #1
STA. 10+14.75
F.G. 106.45
BEGIN ELEVATED CONCRETE PATH
STA. 10+14.25
F.G. 106.47
GATE FOR CHAIN LINK FENCE, 6 FEET (MOD.)
STA. ~~9+98~~ 10+00 TO ~~10+04~~ 10+07 LT.
N14°29'38.06"W
10+00
Delta 28°18'36.52"
Dc 22°55'05.92"
R 250.00'
T 63.05'
L 123.53'
E 7.83'
PC Sta 11+12
Remove
C.L. PIER 1
STA. 10+52.23
F.G. 105.73
Sta 10+11.17
PI
C.L. PIER 2
STA. 10+90.23
F.G. 104.99
PT Sta 11+37.65
Do not Disturb
Bollard Fence
Woods
Dirt path
Remove
Sign
N18°57'48.13"W
11+00
C.L. PIER 3
STA. 11+28.23
F.G. 104.25
PI Sta 11+50.80
To Colchester
12+00
Remove
Delta 23°55'26.46"
Dc 22°55'05.92"
R 250.00'
T 52.97'
L 104.39'
E 5.55'
PC Sta 11+37.84
C.L. PIER 4
STA. 11+69.57
F.G. 104.25
Sta 12+42.23
PT
C.L. PIER 5
STA. 12+15.24
F.G. 104.25
MATCHLINE 12+50.00

PVI 6+55.00
ELEV 118.60

8+76.00
BEGIN PROJECT
COLCHESTER
STP BIKE(48)

-.3765%
PVI 10+14.23
ELEV 106.47
-1.9480%
PVI 11+28.23
ELEV 104.25
0.0000%
Ø30 Elev. 102.0
Ø50 Elev. 101.8
Ø30 Elev. 101.0

| | | |

VT STATE PLANE GRID

N

C.L. PIER 7
STA. 13+08.03
F.G. 104.25

C.L. PIER 8
STA. 13+54.74
F.G. 104.25

C.L. PIER 9
STA. 14+01.45
F.G. 104.25

C.L. PIER 10
STA. 14+48.16
F.G. 104.25

C.L. PIER 11
STA. 14+94.87
F.G. 104.25

Remove & Salvage Lookout
See Special Provisions
for stockpile location

C.L. PIER 12
STA. 15+41.58
F.G. 104.25

C.L. PIER 13
STA. 15+88.29
F.G. 104.25

C.L. PIER 14
STA. 16+35.00
F.G. 104.25

C.L. PIER 15
STA. 16+81.71
F.G. 104.25

C.L. PIER 16
STA. 17+28.42
F.G. 104.25

C.L. PIER 17
STA. 17+75.13
F.G. 104.25

To Burlington

To Colchester

Woods

Raised Wooden Lookout

N18°52'48.13"W

Dirt path

Dirt path

13+00

14+00

15+00

16+00

17+00

18

MATCHLINE 12+50.00

MATCHLINE 18+00.00

C.L. PIER 6
STA. 12+61.32
F.G. 104.25

Woods

P
L

120
110
100
90

0.0000%

0100 Elev. 102.0
050 Elev. 101.8
010 Elev. 101.0

12+50	12+75	13+00	13+25	13+50	13+75	14+00	14+25	14+50	14+75	15+00	15+25	15+50	15+75	16+00	16+25	16+50	16+75	17+00	17+25	17+50	17+75	18+00
104.25	99.0 104.25	99.2 104.25	99.4 104.25	99.6 104.25	99.4 104.25	99.4 104.25	99.4 104.25	99.4 104.25	99.5 104.25	99.5 104.25	99.5 104.25	99.5 104.25	99.3 104.25	99.5 104.25	99.4 104.25	99.3 104.25	99.2 104.25	99.4 104.25	99.6 104.25	99.4 104.25	99.3 104.25	99.4

0 20 40
SCALE IN FEET

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. EVans-Mongeon	CHECKED BY:
sf038l2.i	SHEET 23 OF 87

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

VT STATE PLANE GRID

N

C.L. PIER 18
STA. 18+21.84
F.G. 104.25

C.L. PIER 19
STA. 18+67.86
F.G. 104.25

C.L. PIER 20
STA. 19+13.91
F.G. 104.25

C.L. PIER 21
STA. 19+60.62
F.G. 104.25

C.L. PIER 22
STA. 20+06.72
F.G. 104.25

C.L. PIER 23
STA. 20+52.39
F.G. 104.25

C.L. PIER 24
STA. 20+98.57
F.G. 104.25

C.L. PIER 25
STA. 21+45.28
F.G. 104.25

C.L. PIER 26
STA. 21+91.99
F.G. 104.25

C.L. PIER 27
STA. 22+38.70
F.G. 104.25

PI Sta 18+67.24

PC Sta 19+76.90

PT Sta 20+74.89

To Burlington

Woods

Woods

MATCHLINE 18+00.00

MATCH LINE 23+50.00

N18°52'13"W

N5°18'54.11"W

N2°05'11.80"W

18+00

19+00

20+00

21+00

22+00

23+00

PC Sta 18+37.51

PT Sta 18+96.70

Dirt path

Boardwalk

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

Bollard Fence

Remove

To Colchester

Boardwalk

Dirt path

Sign

Remove

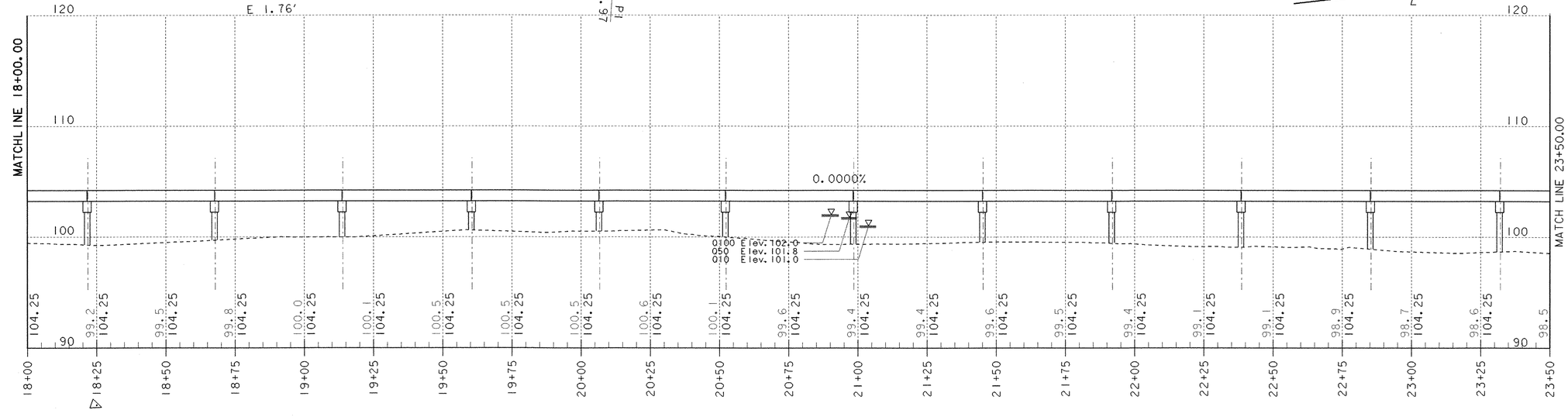
Delta 13°33'54.02"
Dc 22°55'05.92"
R 250.00'
T 29.73'
L 59.19'
E 1.76'

PI Sta 20+27.97

C.L. PIER 28
STA. 22+85.41
F.G. 104.25

C.L. PIER 29
STA. 23+32.12
F.G. 104.25

P
L

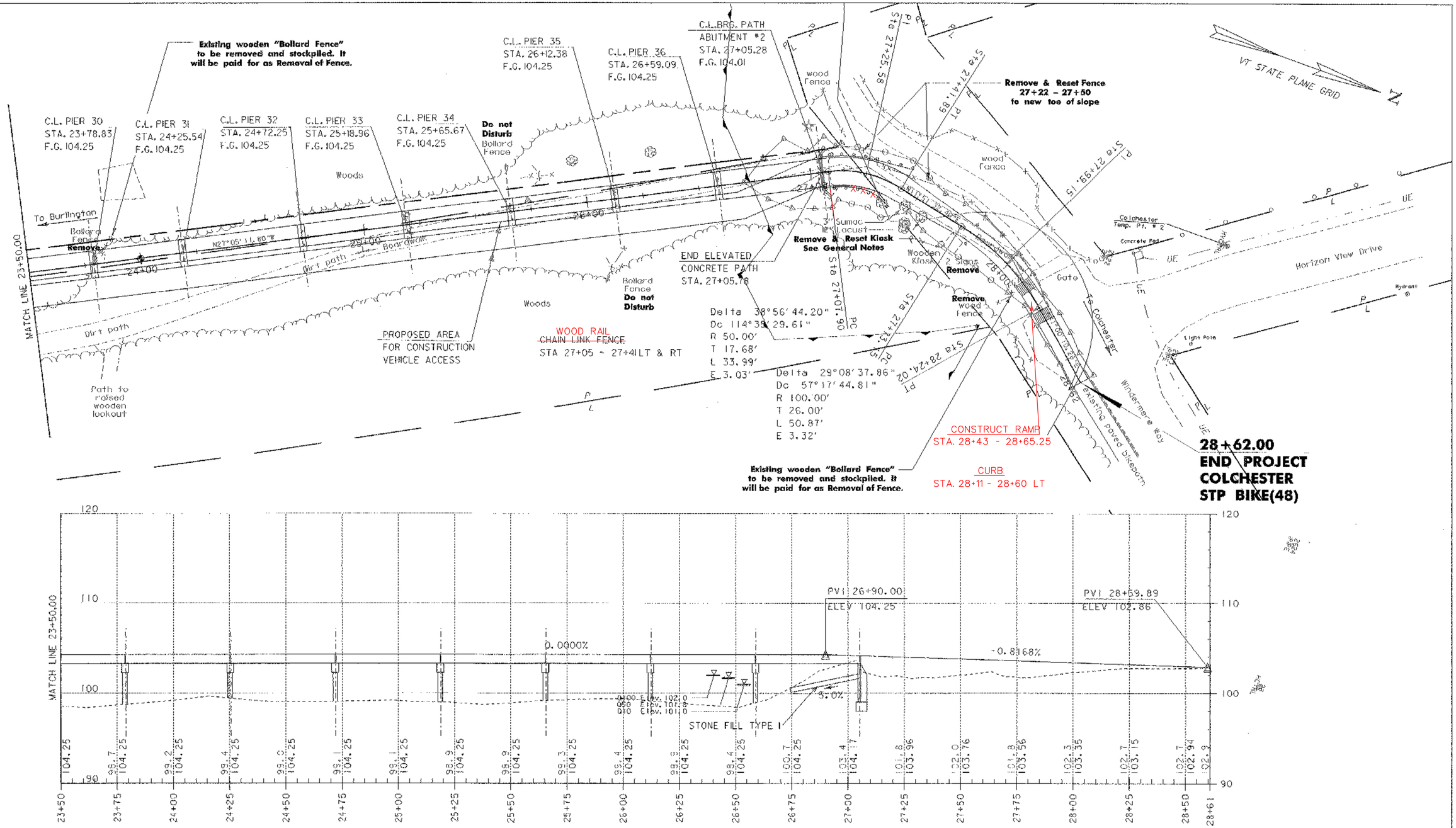


0 20 40
SCALE IN FEET

PROJECT NAME: Colchester
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038bdr.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: M. Evans-Mongeon
sf038L3.i

PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 24 OF 87



PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: C. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
sf038L4.i	SHEET 25 OF 87

0 20 40
SCALE IN FEET

Matchline 12+50

Sand

Woods

Dotted Gray Shape represents proposed Truss Staging Area

Dock

Sign

Boardwalk

Wooden Kiosk

Woods

Conc Pier

Sand

Woods

Wet area

Woods

N17°05'58.95"W

8+00

C-1
Western edge of prime turtle nesting habitat

STONE FILL, TYPE II

Sta 8+76.41 PI

Woods

Stone Fill

Wood Crib Wall with Fence

GATE FOR CHAIN LINK FENCE, 6 FEET (MOD.) STA. 9+98 TO 10+04 LT.

Woods

Boardwalk

Sign

N14°29'36.06"W

9+00

10+00

Sta 10+04.12 PC

Sta 10+77.17 PI

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

Sta 11+37.65 PT

Bollard Fence

Woods

Boardwalk

Dirt path

Sign

11+00

Sta 11+37.84 PC

Sta 11+90.80 PI

VT STATE PLANE GRID

N

To Colchester

N18°52'48.13"W

12+00

Sign

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

Sta 12+42.23 PT

Matchline 12+50

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

PROPOSED AREA FOR CONSTRUCTION VEHICLE ACCESS

Matchline 12+50

Rough avens "Geum laciniatum" 11 individual plants
A-2

To Burlington

Woods

Rough avens "Geum laciniatum" 6 individual plants
A-1

Eastern edge of wetland
B-1

Raised Wooden Lookout

N18°52'48.13"W

13+00

14+00

Dirt path

15+00

16+00

17+00

Rough avens "Geum laciniatum" 75 individual plants
A-9

To Colchester

Dirt path

Woods

Rough avens "Geum laciniatum" 35 individual plants
A-10

PROPOSED AREA FOR CONSTRUCTION VEHICLE ACCESS

A-8
Rough avens "Geum laciniatum" 75 individual plants

THE PLANTS INDICATED BY CROSS-HATCHING ARE VERY UNCOMMON IN VERMONT. EVERY EFFORT SHOULD BE MADE TO PROTECT THEM. THE CONSTRUCTION ACCESS IN THIS AREA SHOULD BE MADE AS NARROW AS POSSIBLE.

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

Matchline 18+00

Resource Layout & Erosion Control

0 20 40
SCALE IN FEET

PROJECT NAME: Colchester
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/resourcebdr.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: M. Evans-Mongeon
sf038resl.1

PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 27 OF 87

Dc 22°55′05.92"
R 250.00′
T 48.08′
L 95.00′
E 4.58′

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

Matchline 18+00

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

To Burlington

Woods

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

Dirt path

Boardwalk

To Colchester

Bollard Fence

Matchline 23+50

Woods

PC Sta 18+37.5

PT Sta 18+96.70

Delta 13°33′54.02"
Dc 22°55′05.92"
R 250.00′
T 29.73′
L 59.19′
E 1.76′

Sta 20+27.97 PI

PROPOSED AREA
FOR CONSTRUCTION
VEHICLE ACCESS

Sign

PI Sta 27+25.58

PT Sta 27+41.89

wood Fence

PI Sta 27+99.15

Rough avens
"Geum laciniatum"
11 individual plants
A-11

3" Sumac
1/2" Locust

Wooden Kiosk
2 Signs

Gate

Colchester Temp. Pt. # 2
Concrete Pad

UE

Horizon

Light Pole

Delta 38°56′44.20"
Dc 114°38′29.61"
R 50.00′
T 17.68′
L 33.99′
E 3.03′

Sta 27+07.90 PC

Sta 27+73.15 PT

Sta 28+24.02 PC

Delta 29°08′37.86"
Dc 57°17′44.81"
R 100.00′
T 26.00′
L 50.87′
E 3.32′

Path to raised wooden lookout

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:	Colchester
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/resourcebdr.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: M. Evans-Mongeon
sf038res2.i

PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 28 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 ARE DESIGNED FOR H10 LIVE LOAD. THE ELEVATED WALKWAY IS DESIGNED FOR PEDESTRIAN LOAD ONLY. 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 SEPTEMBER 2 THROUGH MARCH 15, EXCEPT THAT PAVING BETWEEN STATIONS 27+05 AND 28+62, WILL BE ALLOWED TO TAKE PLACE OUTSIDE OF THAT TIME FRAME.

4. THE CONTRACTOR WILL COORDINATE OPERATIONS AND SCHEDULING WITH THE RESIDENT ENGINEER, AND WITH THE CONTRACTOR FOR PROJECT BURLINGTON-COLCHESTER STP BIKE(45). NO EXTRA COMPENSATION WILL BE DUE THE CONTRACTOR AS A RESULT OF THE INCONVENIENCE OF WORKING IN CLOSE PROXIMITY TO THE CONSTRUCTION OF A PEDESTRIAN BRIDGE OVER THE WINNOSKI RIVER, BURLINGTON-COLCHESTER STP BIKE (45). THE CONTRACTOR WILL MAKE EVERY EFFORT TO ACCOMMODATE THE CONTRACTOR DOING THE WINOOSKI RIVER PROJECT.

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

6. 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 8" IN DIAMETER, WITHIN THE CONSTRUCTION LIMITS, THAT CAN BE SAVED, WITHOUT COMPROMISING CONSTRUCTION, SHALL BE LEFT STANDING.

7. 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.

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

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

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

CONCRETE, HIGH PERFORMANCE CLASS B:	f'c = 3500 PSI	fc = 1200 PSI
CONCRETE, CLASS B:	f'c = 3500 PSI	fc = 1200 PSI
REINFORCING STEEL:	Ft = 24,000 PSI	GRADE 60

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

SOIL: UNIT WEIGHT 140 PCF

11. 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.

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

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

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

15. 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. FOOTING PRESSURE DESIGN: PATH ABUTMENT NO. 1 2.5 KSF
PATH ABUTMENT NO. 2 3.5 KSF
PILE ULTIMATE CAPACITY 150,000 POUNDS

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

19. 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).

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

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

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

23. THREE HAND AUGERS FOR THIS PROJECT WERE TAKEN IN NOVEMBER OF 2001, AND ARE INCLUDED IN THIS SET OF PLANS. THREE STANDARD PENETRATION BORINGS WERE TAKEN IN NOVEMBER OF 2002, AND ARE ALSO INCLUDED IN THESE PLANS. THREE DYMANIC PILE LOAD TESTS WERE COMPLETED IN FEBRUARY OF 2003. THE RESULTS OF THESE LOAD TESTS ARE INCLUDED IN THE CONTRACT DOCUMENTS. THE ESTIMATED PILE LENGTHS ARE GIVEN IN THE PLANS. ACTUAL PILE LENGTHS WILL BE BASED ON OBTAINING AN ULTIMATE RESISTANCE OF 150 KIPS PER PILE.

24. ALL SUBSTRUCTURE CONCRETE SHALL BE CONCRETE, HIGH PERFORMANCE CLASS B UNLESS OTHERWISE NOTED. CONCRETE, CLASS B WILL BE USED TO FILL THE STEEL CASINGS FOR THE CAST-IN-PLACE CONCRETE PILES.

25. 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 FOR THIS WORK WILL BE MADE UNDER ITEM 680.40, RELOCATE INFORMATION PLAZA, TYPE A (MOD.)

26. 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.

27. THE EXISTING BOLLARD FENCES WHICH ARE LOCATED AT STA. 22+65, 23+85, AND 28+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.

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

29. 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".

30. 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.

31. DURING THE CONSTRUCTION SEASON (SEPT. 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.

32. 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.

33. 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.

34. FROM 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 HARWARE 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.

35. FROM STA 8+76 TO 10+14.25 THE FENCING WILL BE 6'-0" HIGH, BLACK, EITHER PAINTED STEEL (ALTERNATE 1), AS SHOWN ON SHEETS 56-57, OR ORNAMENTAL STEEL (ALTERNATE 2), AS SHOWN ON SHEETS 61-63. PAYMENT FOR THE MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR THIS INSTALLATION WILL BE MADE UNDER ITEM 620.12, CHAIN-LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1, OR ITEM 620.12, CHAIN-LINK FENCE, 6 FEET (MOD.) (ORNAMENTAL STEEL) - ALTERNATE 2.

36. A 6'-0" GATE WILL BE LOCATED AT STA. 10+00 LEFT. THIS GATE WILL EITHER BE PAINTED STEEL (ALTERNATE 1) OR ORNAMENTAL STEEL (ALTERNATE 2). PAYMENT FOR THE MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR THIS INSTALLATION WILL BE MADE UNDER ITEM 620.16, GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1, OR ITEM 620.16, GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.) (ORNAMENTAL STEEL) - ALTERNATE 2.

37. FOUR OF THE POSTS FOR THE PAINTED STEEL FENCE WILL BE FASCIA MOUNTED ON THE NEW CONCRETE AT THE COLCHESTER ABUTMENT. SEE SHEETS 56 AND 57 FOR DETAILS. ALL OF THIS WORK WILL BE INCLUDED IN THE PRICE BID FOR 620.12, CHAIN LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1.

38. FOUR OF THE POSTS FOR THE ORNAMENTAL STEEL FENCE WILL BE MOUNTED ON TOP OF THE NEW CONCRETE AT THE COLCHESTER ABUTMENT. SEE SHEET 63 FOR DETAILS. ALL OF THIS WORK WILL BE INCLUDED IN THE PRICE BID FOR 620.12, CHAIN LINK FENCE, 6 FEET (MOD.) (ORNAMENTAL STEEL) - ALTERNATE 2.

39. CHAIN LINK FENCE SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEERS APPROVAL.

40. IF THE PAINTED STEEL ALTERNATE FOR RAILING IS UTILIZED, THE RAILING WILL BE 52 INCHES HIGH FROM STA. 10+14.23 TO 12+14.96, AND 42 INCHES HIGH FROM STA 12+14.96 TO STA. 27+05.54.

41. IF THE ORNAMENTAL STEEL RAILING ALTERNATE IS UTILIZED, THE RAILING WILL BE 48 INCHES HIGH FROM STA. 10+14.23 TO STA. 27+05.54.

42. THE EXISTING TIMBER WALL LOCATED AT STA. 8+90 TO 9+09 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

43. 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.

44. 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.

45. THE PRICE PER PRECAST UNIT SHALL INCLUDE DELIVERY TO THE PROJECT IN COLCHESTER, AT THE MOUTH OF THE WINOOSKI RIVER, AND SHALL INCLUDE THE ½" DIAMETER TRANSVERSE TENDONS, GALVANIZED CHUCKS WITH ½" PLATE, THE 1½", ANCHOR BOLTS, AND THE HOT POURED JOINT SEALER, AND MORTAR TYPE IV, AS SHOWN IN THE PLANS.

46. 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 CHUCKS 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.".

47. 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".

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

49. 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.

50. 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+sdl) = 5.7 kips; R(ll) = 2.9 kips
Design Method: Design Method A for bearing design
Temperature: 80 deg. F.

PROJECT NAME:	**Colchester**		
PROJECT NUMBER:	**STP BIKE (48)**		
FILE NAME:	sf038gnote.xls	PLOT DATE:	7/16/2003
PROJECT LEADER:	C. S. Keller	DRAWN BY:	M. Evans-
DESIGNED BY:	M. Evans-Mongeon	CHECKED BY:	
GENERAL NOTES SHEET #1		SHEET 30	OF 87

scan_gnote1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GENERAL NOTES

Material:	60 Durometer neoprene.
Maximum Bearing Stress:	1000 psi
Design Rotation:	0.014 rad

E. All materials and fabrication shall be per AASHTO division 11 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.

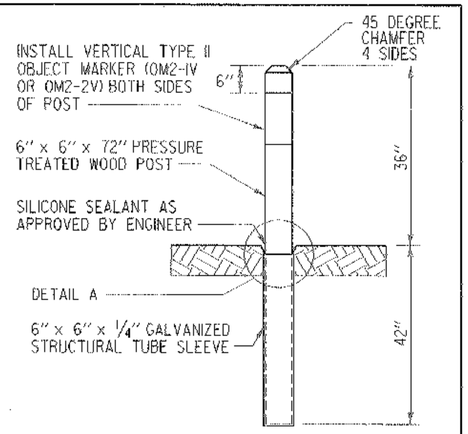
G. The bearings shall be paid for under the item 531.10 "Bearing Device Assembly." There will be a total of 592 Bearing Device Assemblies paid on this project. A bearing device assembly consists of 1 pad at each of the bearing locations shown on sheets 43-52

PROJECT NAME:	**Colchester**
PROJECT NUMBER:	**STP BIKE (48)**
FILE NAME: **sf038gnote.xls**	PLOT DATE: **7/16/2003**
PROJECT LEADER: **C. S. Keller**	DRAWN BY: **M. Evans-**
DESIGNED BY: **M. Evans-Mongeon**	CHECKED BY:
GENERAL NOTES SHEET #2	SHEET **31** OF **87**

scan_gnote2

Bollard Marking Detail

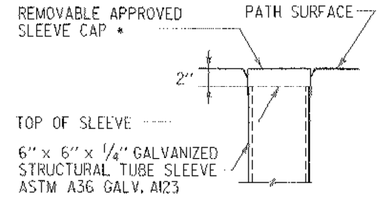
TYPE 2 OBJECT MARKERS



WOOD BOLLARD WITH POST CAP

Sta. 27+25.0 Centerline

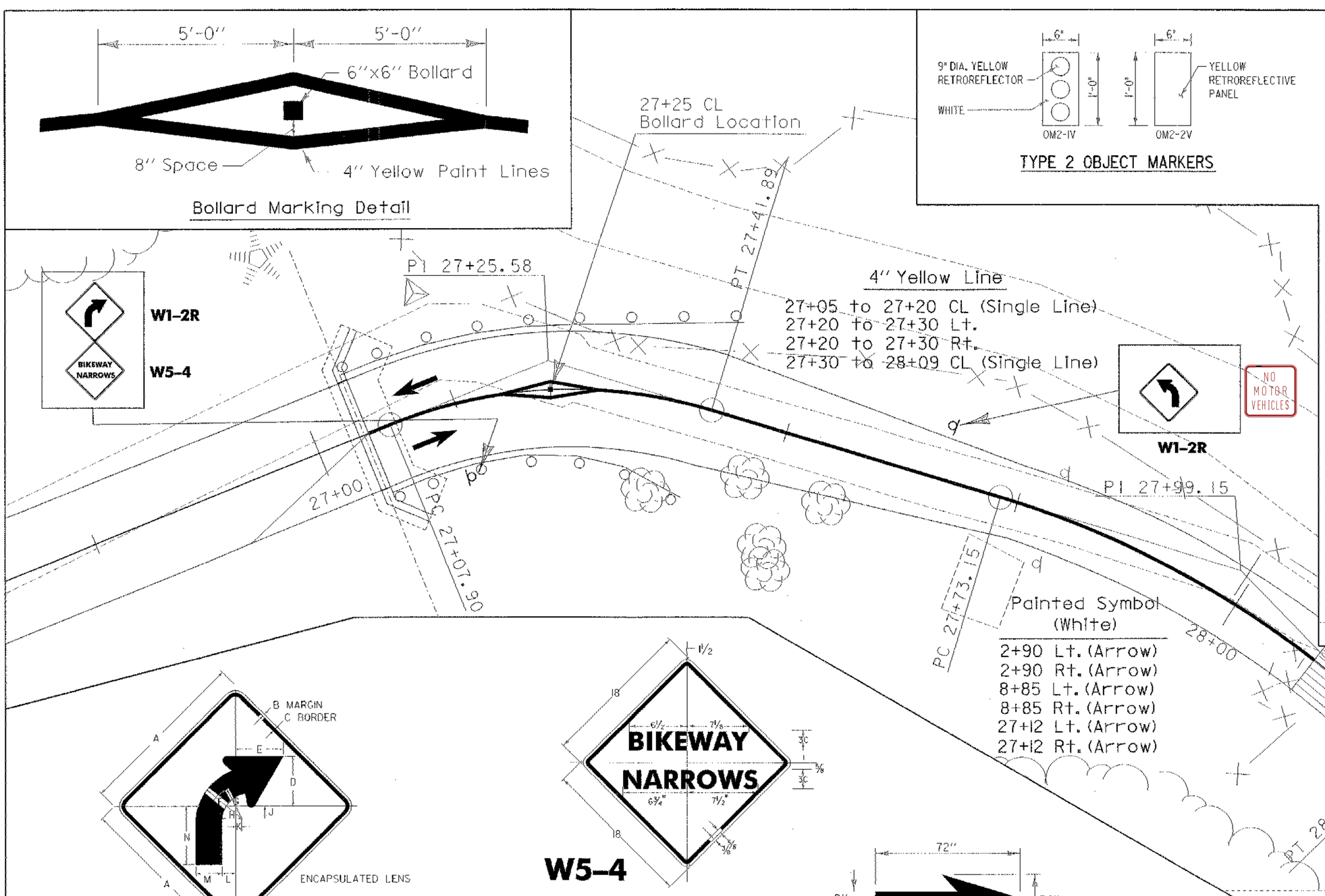
NOTE:
CONTRACTOR SHALL ENSURE BOLLARDS ARE REMOVABLE ONCE PLACED WITHIN SLEEVE BY MILLING TIMBER AS NEEDED.

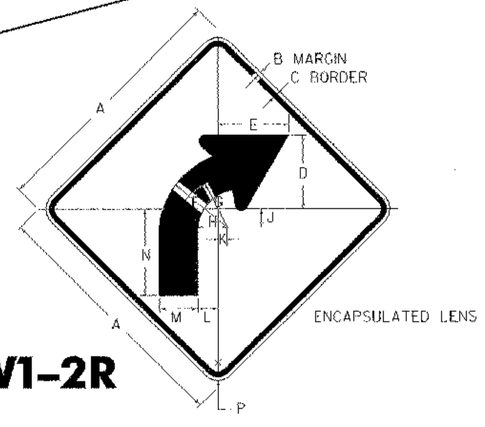


* CONTRACTOR SHALL SUPPLY RESIDENT ENGINEER WITH 4 ADDITIONAL SLEEVE CAPS TO BE RETAINED FOR FUTURE USE.

DETAIL A

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





W1-2R

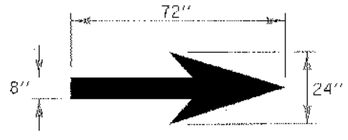
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
PATH	18	3/8	5/8	5 3/8	5 1/2	6	4 3/4	3 3/8	1 3/4	1 1/4	2	2 5/8	6 1/4	1 1/2

W5-4

* REDUCE SPACING 50%

SEE STANDARD E-144 FOR ARROW HEAD DETAILS

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



Arrow Detail

0 5 10
SCALE

Signs & Markings

PROJECT NAME: Colchester
PROJECT NUMBER: STP Bike(48)

FILE NAME:/str5/03f038/sf038signs.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw CHECKED BY:
sf038signs.1 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: **COLCHESTER**
PROJECT NUMBER: **STP bike(48)**

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
SITE NAME: BIKE PATH
STATION: 12+00.00
GROUND EL.: 99.62
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	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
SITE NAME: BIKE PATH
STATION: 12+00.00
GROUND EL.: 99.62
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
	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 05-AUG-2003
PROJ. NAME COLCHESTER
PROJ. NO. STP BIKE(48)
SHEET 35 OF 87 SHEETS

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

BORING CREW
CREW CHIEF: HOLT BORING RIG: TRACK RIG
DRILLER: YOUNG BORING TYPE: WASH BORE
LOGGER: SOMERS 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 PROJECT NUMBER: STP BIKE (45)
SITE NAME: BIKE PATH SITE NO.: DELTA PARK
STATION: 19+00.00 OFFSET: 0.00
GROUND EL.: 99.95 G.W. DEPTH: HOLE CAVED IN

BORING CREW
CREW CHIEF: HOLT BORING RIG: TRACK RIG
DRILLER: YOUNG BORING TYPE: WASH BORE
LOGGER: SOMERS 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 PROJECT NUMBER: STP BIKE (45)
SITE NAME: BIKE PATH SITE NO.: DELTA PARK
STATION: 24+00.00 OFFSET: 0.00
GROUND EL.: 98.97 G.W. DEPTH: 4.0 11/07/02

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

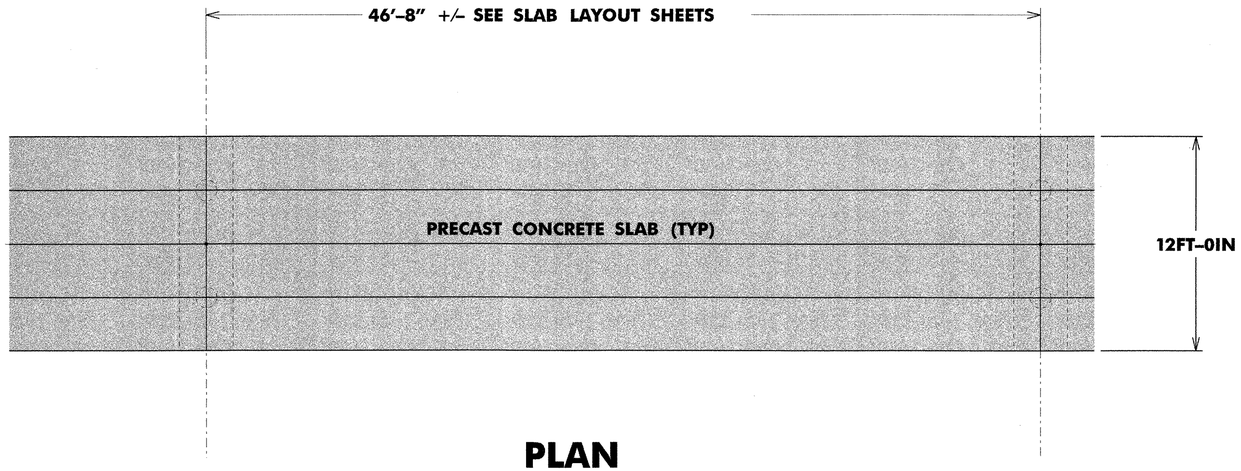
HOLE NO.: B-203
SHEET 2 OF 2
DATE STARTED: 11/5/02
DATE COMPLETED: 11/6/02

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

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

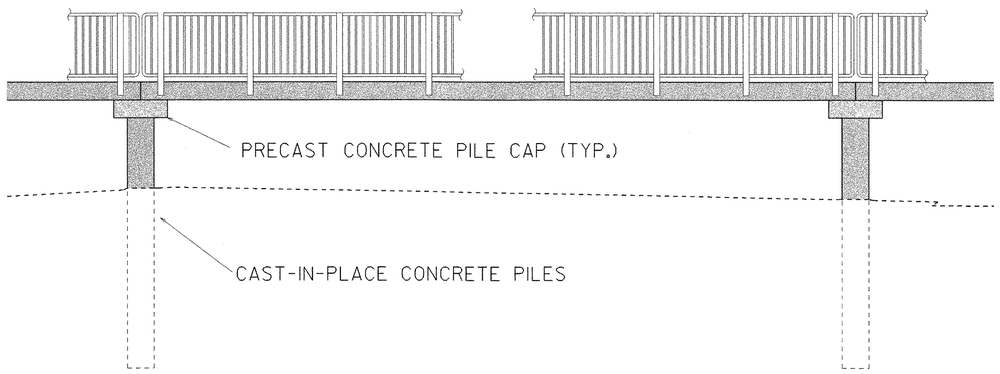
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, Sa, gry, Moist, Rec. = 0.90′	8	18.9	13.4	79.5	7.1		
55		A-1-b, SaGr, gry, Moist, Rec. = 0.75′	11	11.8	47.4	45.7	6.9		
60		A-1-b, Sa, gry, Moist, Rec. = 0.85′	13	17.7	13.6	80.1	6.3		
65		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 05-AUG-2003
PROJ. NAME COLCHESTER
PROJ. NO. STP BIKE(48)
SHEET 36 OF 87 SHEETS



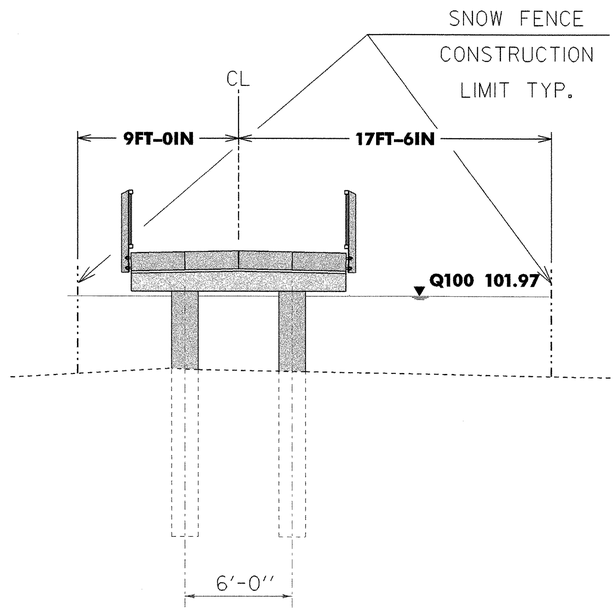
PLAN

SCALE 1/4" = 1'-0



ELEVATION

SCALE 1/4" = 1'-0



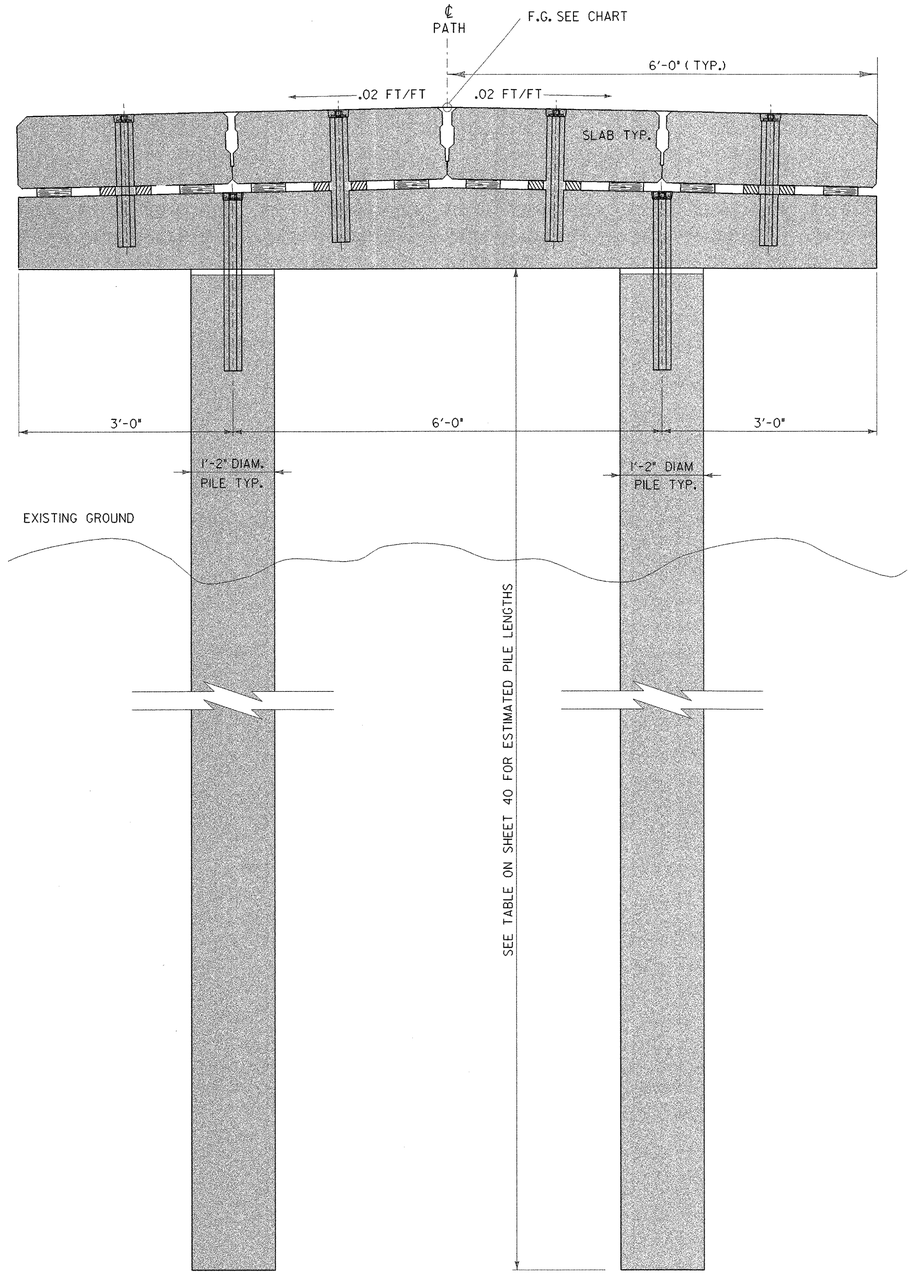
SECTION

SCALE 1/4" = 1'-0

PLAN & ELEVATION

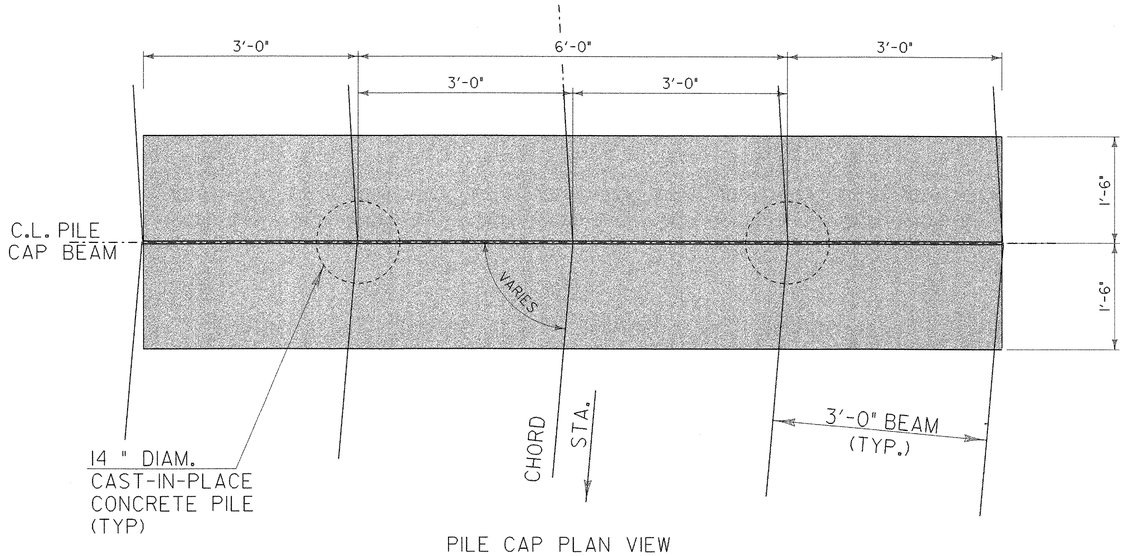
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)

FILE NAME: sr+5/03f038/sf038pe.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY:	CHECKED BY: M.E.M.
sf038pe.i	SHEET 38 OF 87



SUBSTRUCTURE ELEVATION
FACING UP STATION

SCALE 1" = 1'-0
1 9 6 3 0 1 2



PILE CAP PLAN VIEW

SCALE 1" = 1'-0
1 9 6 3 0 1 2

SECTION VIEW OF ELEVATED PATH

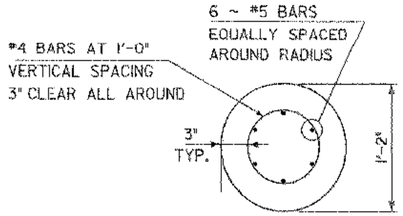
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038pstdet1.1	SHEET 39 OF 87

Pile Lengths and top Elevations

PIER NUMBER	STATION	TOP OF PILE ELEVATION	EXISTING GROUND ELEVATION	ESTIMATED PILE LENGTH
1	10+52.23	~~103.61~~ 103.48	101.08	57.5
2	10+90.23	~~102.87~~ 102.74	100.50	57.4
3	11+28.23	~~102.13~~ 102.00	100.06	57.1
4	11+69.57	102.13	99.71	57.4
5	12+15.24	102.13	99.26	57.9
6	12+61.32	102.13	99.04	58.1
7	13+08.03	102.13	99.28	57.9
8	13+54.74	102.13	99.54	57.6
9	14+01.45	102.13	99.38	57.8
10	14+48.16	102.13	99.36	57.8
11	14+94.87	102.13	99.54	57.6
12	15+41.58	102.13	99.53	57.6
13	15+88.29	102.13	99.36	57.8
14	16+35.00	102.13	99.31	57.8
15	16+81.71	102.13	99.19	57.9
16	17+28.42	102.13	99.53	57.6
17	17+75.13	102.13	99.33	57.8
18	18+21.84	102.13	99.28	57.9
19	18+67.86	102.13	99.72	57.4
20	19+13.91	102.13	99.99	57.1
21	19+60.62	102.13	100.66	56.5
22	20+06.72	102.13	100.50	56.6
23	20+52.39	102.13	100.01	57.1
24	20+98.57	102.13	99.36	57.8
25	21+45.28	102.13	99.56	57.6
26	21+91.99	102.13	99.44	58.1
27	22+38.70	102.13	99.07	57.7
28	22+85.41	102.13	98.91	58.2
29	23+32.12	102.13	98.67	58.5
30	23+78.83	102.13	98.75	58.4
31	24+25.54	102.13	99.43	57.7
32	24+72.25	102.13	99.07	58.1
33	25+18.96	102.13	98.97	58.2
34	25+65.67	102.13	99.17	58.0
35	26+12.38	102.13	99.24	57.9
36	26+59.09	~~102.13~~ 102.00	98.93	58.2

-2.25 FROM F.G.

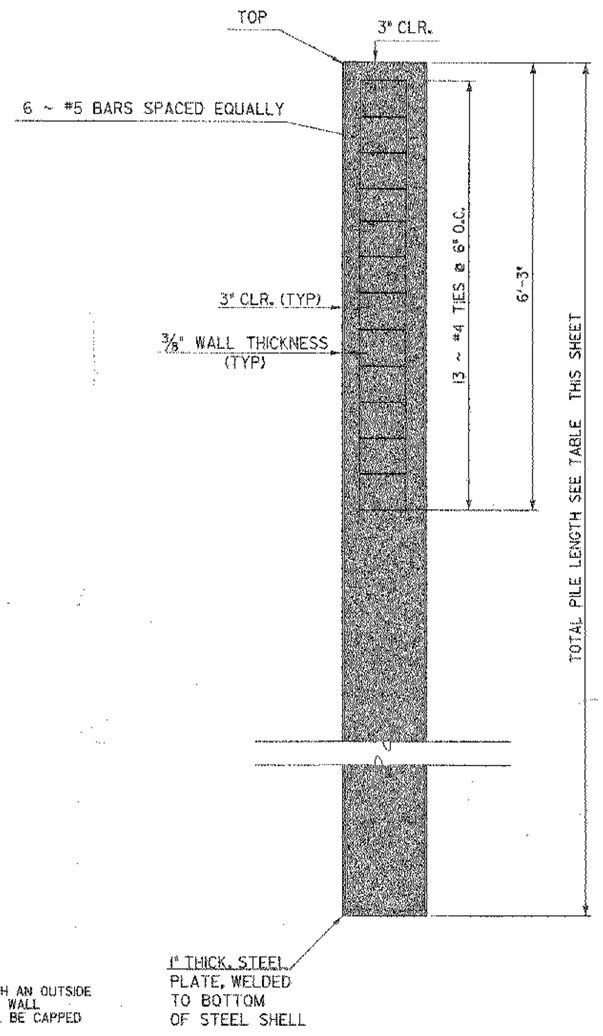


TYPICAL PILE SECTION TOP 6'-0"

SCALE 1½" = 1'-0

1 9 6 3 0 1

⚠1 REVISED 8/21/2003



TYPICAL PILE REINFORCING

SCALE 1" = 1'-0

1 9 6 3 0 1 2

PILE NOTES

PILES SHALL BE STEEL PIPE PILES, WITH AN OUTSIDE DIAMETER OF 14 INCHES, AND A MINIMUM WALL THICKNESS OF ⅜". THE BOTTOM SHALL BE CAPPED WITH A 1" THICK STEEL PLATE

THE PILES, AND ALL ASSOCIATED WORK SHALL CONFORM TO ALL OF THE REQUIREMENTS OF SECTION 505 OF THE STANDARD SPECIFICATIONS.

AFTER THE PILES HAVE BEEN DRIVEN, THE TOPS OF THE PILES WILL BE CAREFULLY CUT TO THE REQUIRED ELEVATION.

THE PILES WILL BE FILLED WITH CONCRETE, CLASS B. f'c = 3500 PSI.

THE TOP 6'-0" OF EACH PILE WILL BE REINFORCED AS SHOWN. NO REINFORCING IS REQUIRED BELOW THAT.

THE COST OF THE CONCRETE AND THE REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 505.25, CAST-IN-PLACE CONCRETE PILING.

THE RESIDENT ENGINEER SHALL HAVE THE AUTHORITY TO REJECT DAMAGED PILES.

PILE LENGTHS ARE ESTIMATED. PILES SHALL BE DRIVEN TO AN ULTIMATE CAPACITY OF 150 KIPS.

PILE DETAILS

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 22-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet2.1 SHEET 40 OF 87

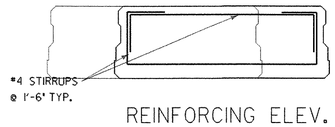
SERVICE LOADS PER UNIT - 46'-8" SPANS (ALL SPANS EXCEPT SPANS 1-3)

DEAD LOAD MOMENT, (NON-COMPOSITE)	117.3 FT-KIP	AT MIDSPAN
RAILING LOAD MOMENT, (EXTERIOR BEAMS)	2.3 FT-KIP	AT MIDSPAN
LIVE LOAD MOMENT, FT-K (POSITIVE)	66.5 FT-KIP	AT MIDSPAN
DEAD LOAD REACTION, AT ABUTMENT	10.5 KIPS	
RAILING LOAD REACTION, AT ABUTMENT (EXTERIOR BEAMS)	0.8 KIPS	
LIVE LOAD REACTION, AT ABUTMENT	5.8 KIPS	
TOTAL REACTION, K, AT ABUTMENT	17.1 KIPS PER SPAN	

SERVICE LOADS PER UNIT - 38 FOOT SPANS (SPANS 1-3)

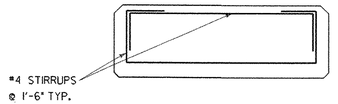
DEAD LOAD MOMENT, (NON-COMPOSITE)	77.0 FT-KIP	AT MIDSPAN
RAILING LOAD MOMENT, (EXTERIOR BEAMS)	1.5 FT-KIP	AT MIDSPAN
LIVE LOAD MOMENT, FT-K (POSITIVE)	43.6 FT-KIP	AT MIDSPAN
DEAD LOAD REACTION, AT ABUTMENT	8.6 KIPS	
RAILING LOAD REACTION, AT ABUTMENT (EXTERIOR BEAMS)	0.6 KIPS	
LIVE LOAD REACTION, AT ABUTMENT	4.8 KIPS	
TOTAL REACTION, K, AT SPAN END	14.2 KIPS PER SPAN	

12" x 36" TYPICAL BEAM

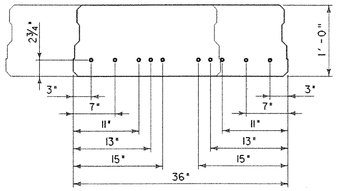


REINFORCING ELEV.

12" x 36" PILE CAP BEAM

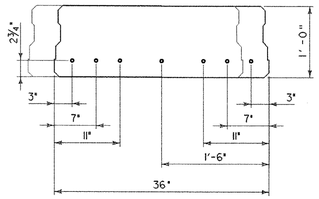


REINFORCING ELEV.



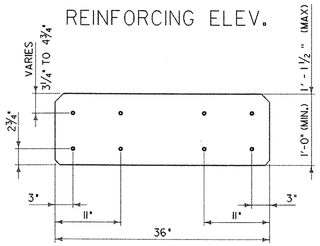
STRAND LAYOUT
12" x 36" BEAM
(ALL SPANS EXCEPT SPANS 1-3)

SCALE 1" = 1'-0



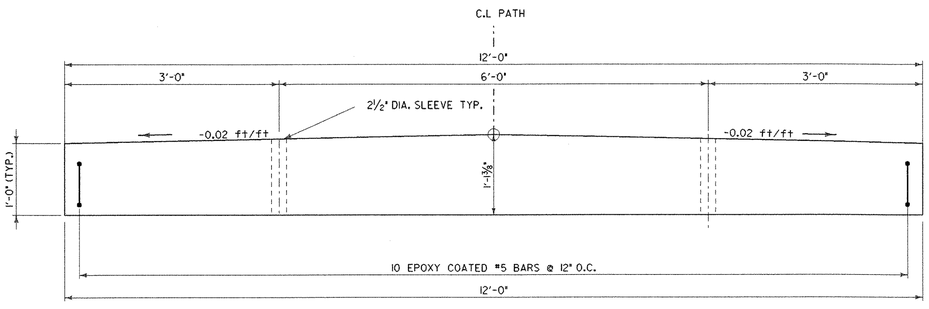
STRAND LAYOUT
12" x 36" BEAM
(SPANS 1-3 ONLY)

SCALE 1" = 1'-0



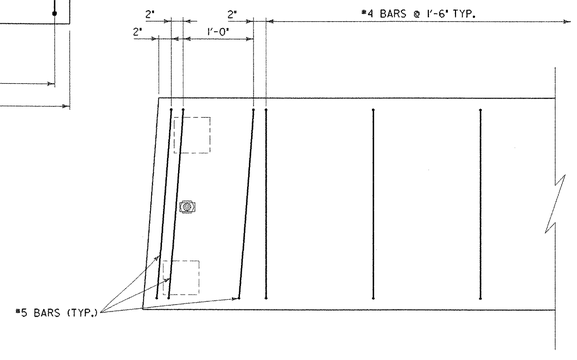
STRAND LAYOUT

SCALE 1" = 1'-0



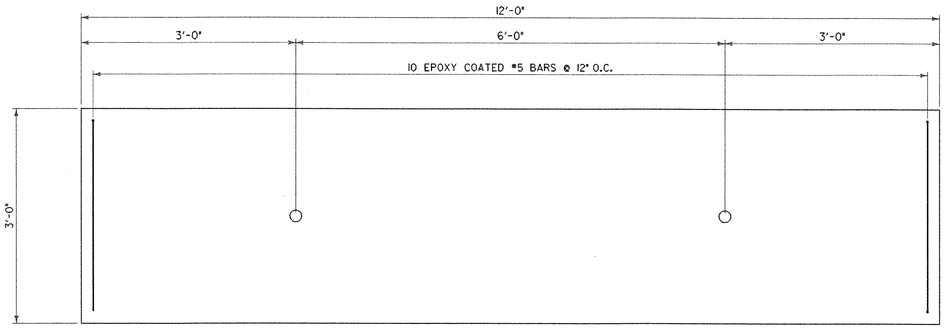
TYPICAL PILE CAP ELEVATION

SCALE 1" = 1'-0



TYPICAL END BLOCK
REINFORCING PLAN

SCALE 1" = 1'-0



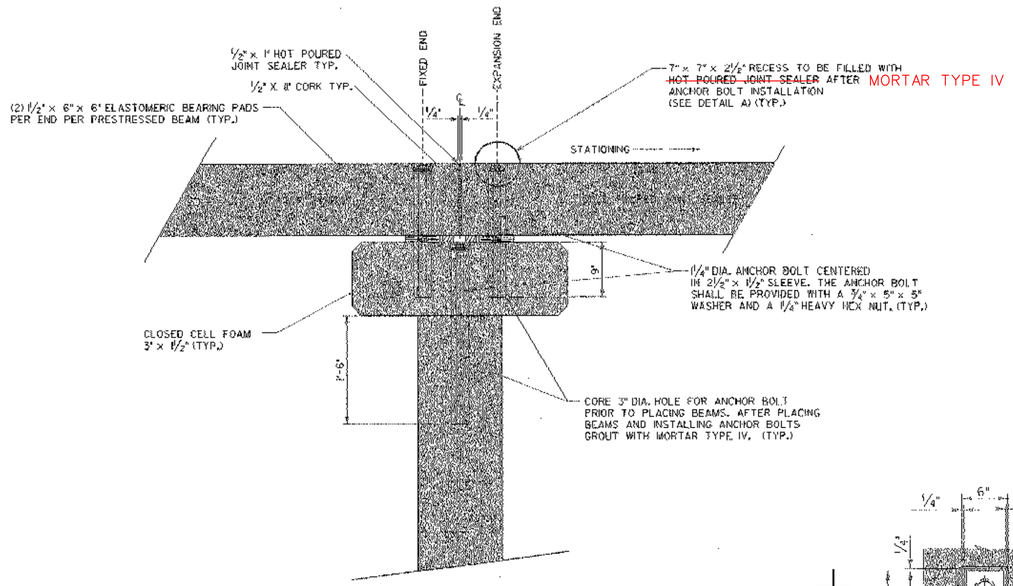
TYPICAL PILE CAP PLAN

SCALE 1" = 1'-0

PILE CAP AND BEAM DETAILS

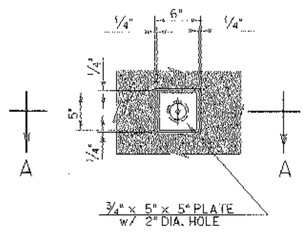
PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

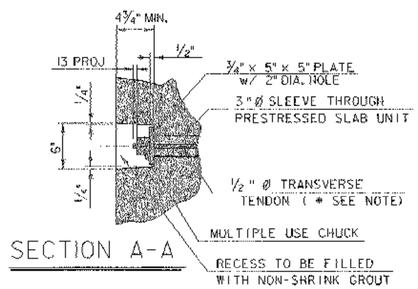
FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet3.i SHEET 41 OF 87



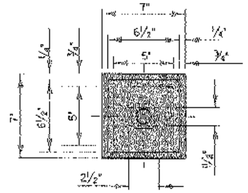
CONNECTION DETAIL @ PILE (TYP.)

SCALE 1" = 1'-0

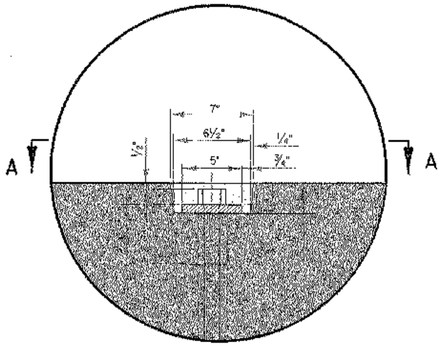




SECTION A-A



SECTION A-A



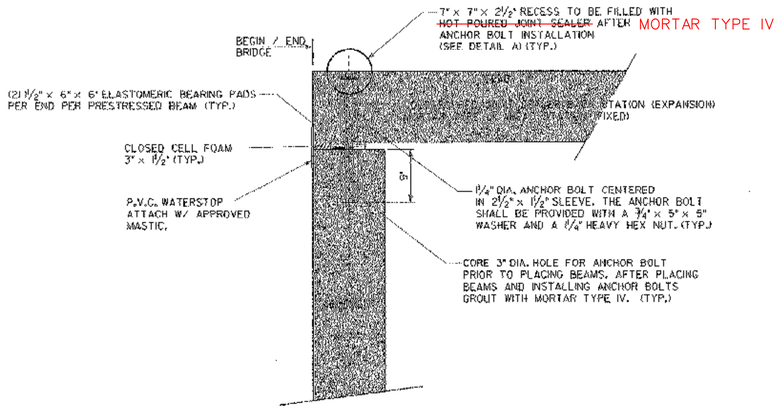
DETAIL "A"

SCALE ½" = 1'-0



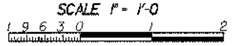
½" Ø TRANSVERSE TENDON DETAIL

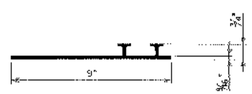
NTS



CONNECTION DETAIL @ ABUTMENT (TYP.)

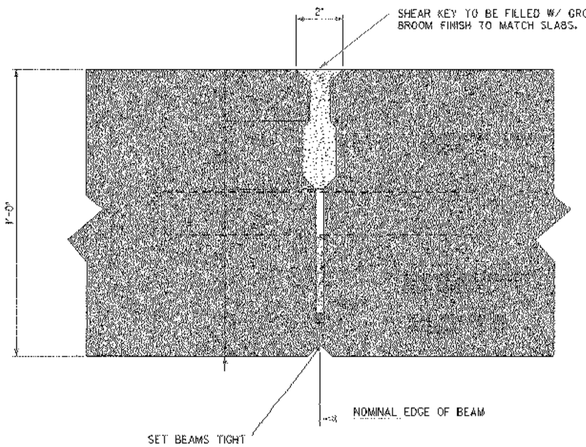
SCALE 1" = 1'-0





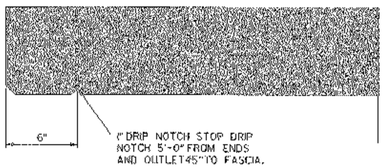
P.V.C. WATERSTOP

THE COSTS FOR P.V.C. WATERSTOP SHALL BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE. OTHER CONFIGURATIONS MAY BE USED UPON APPROVAL OF THE STRUCTURES ENGINEER.



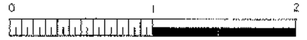
SHEAR KEY DETAIL

N.T.S.



DRIP NOTCH DETAIL

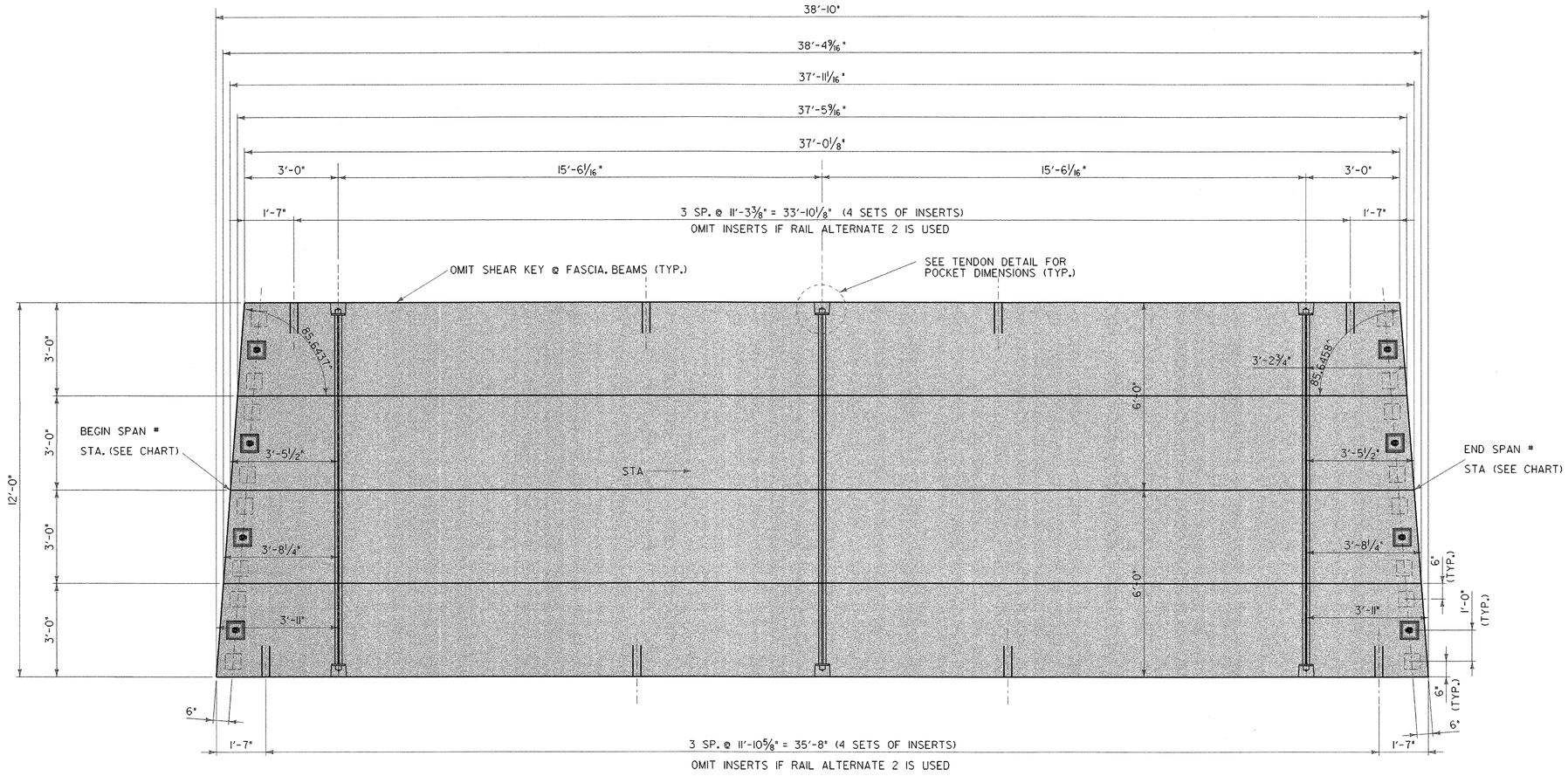
SCALE ½" = 1'-0



FIELD CONNECTION DETAILS

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038pstdet4.f	SHEET 42 OF 87



SPAN #	BEGIN SLAB STATION	END SLAB STATION
1	10+14.25	10+52.21
2	10+52.25	10+90.21
3	10+90.25	11+28.21

PRESTRESSED SLAB LAYOUT
SPANS 1,2,AND 3

SCALE 1/2" = 1'-0

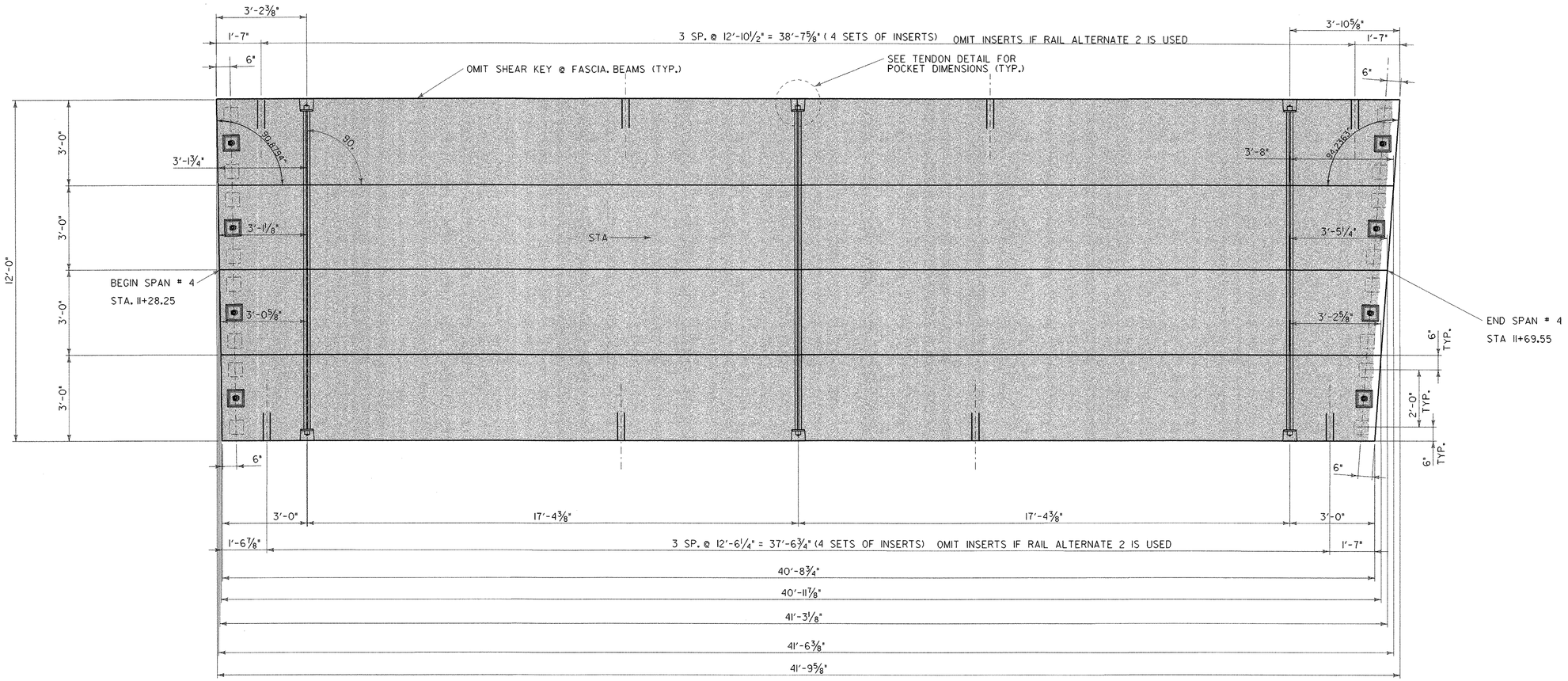
THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4 "

- TRANSVERSE TIES SHALL BE COVERED BY SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITER GREASE BETWEEN SHEATH AND STRAND) FOR THE LENGTH OF STRAND, EXCEPT AT ANCHORAGE LOCATIONS, TIES SHALL BE TENSIONED TO 30.0 K
- THE 3/4 " PLATE SHALL CONFORM TO AASHTO 270 GRADE 36, GALVANIZED AFTER FABRICATION, ACCORDING TO AASHTO 232. THE CHUCK SHALL ALSO BE GALVANIZED PER AASHTO 232.

SLAB DETAILS
SPANS 1, 2, 3

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet5.1 SHEET 43 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 4

SCALE 1/2" = 1'-0

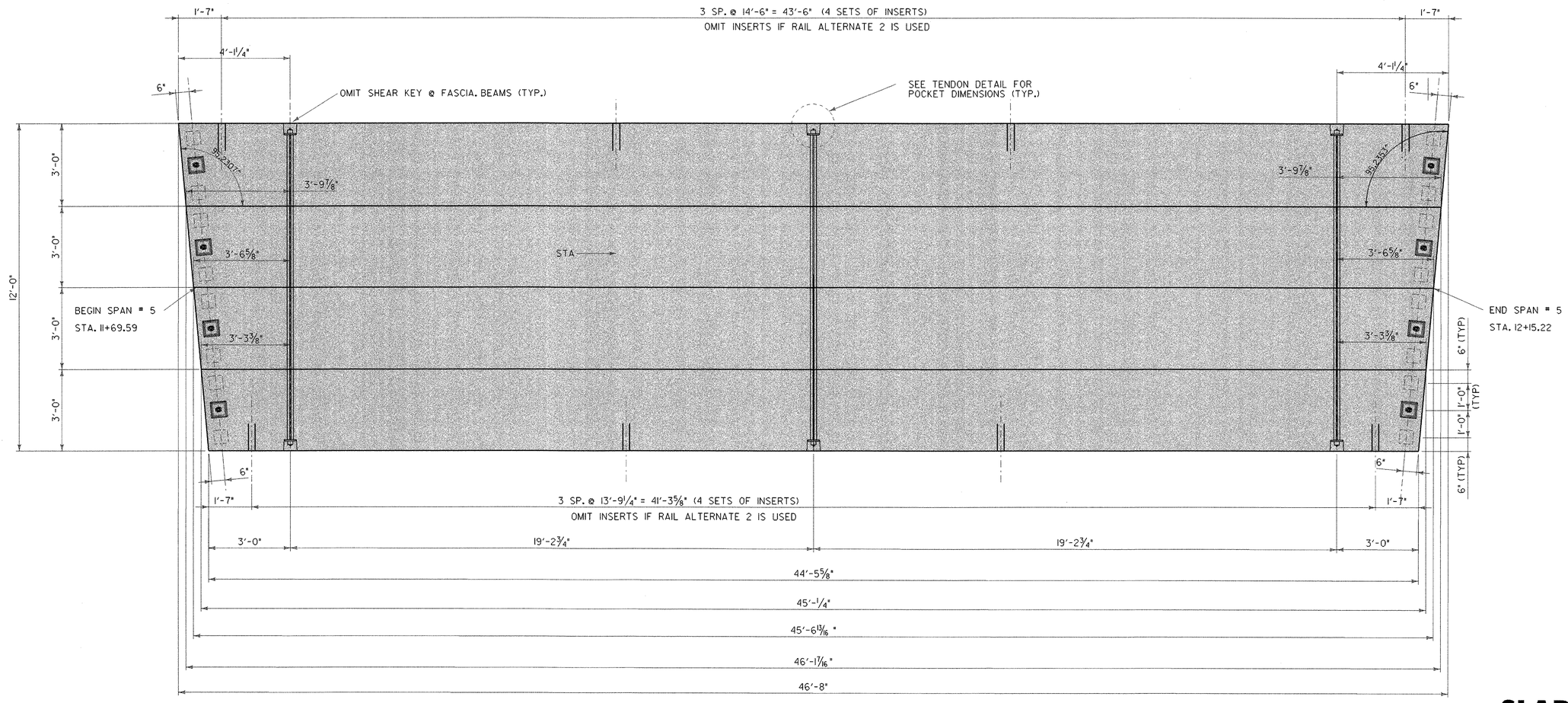
1 0 1 2

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4 "

SLAB DETAILS SPAN 4

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet6.i SHEET 44 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 5

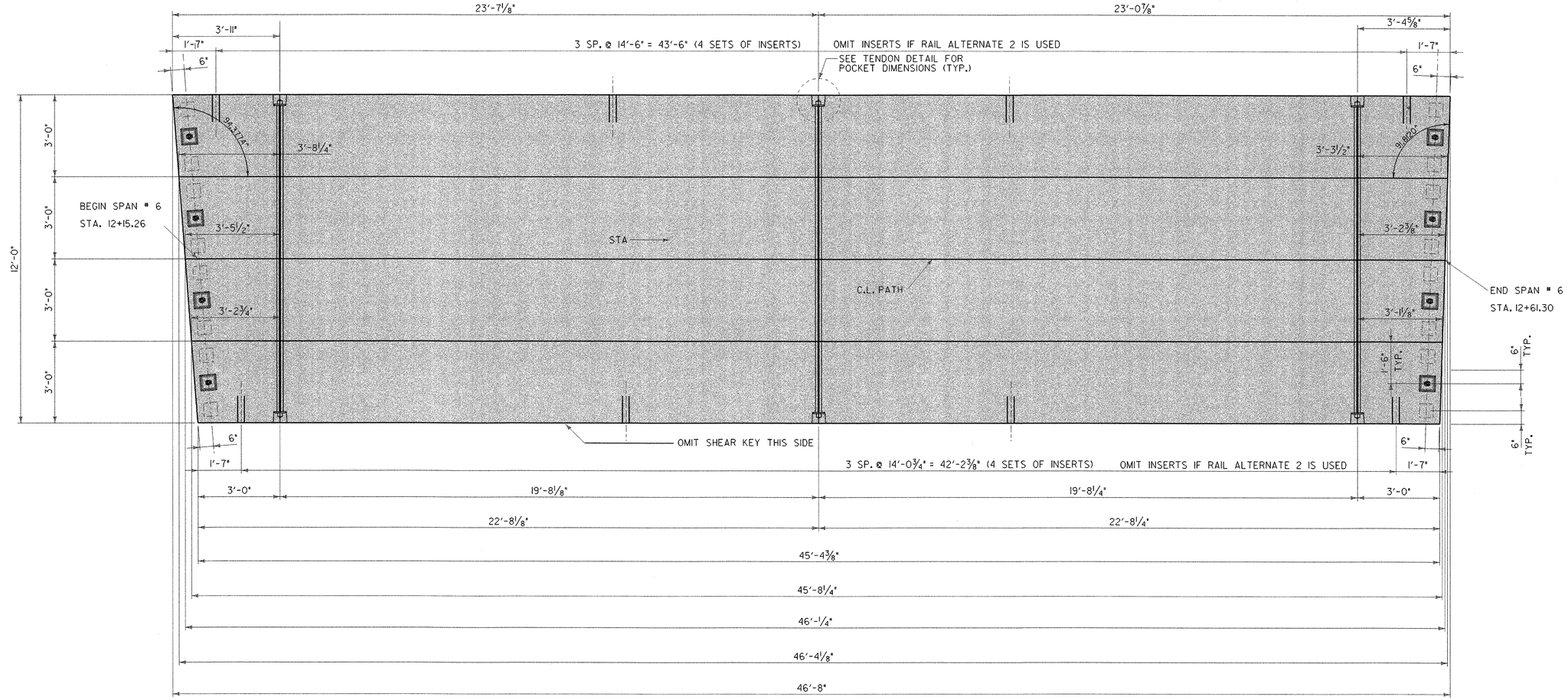
SCALE 1/2" = 1'-0

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH.
THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4"

SLAB DETAILS SPANS 5

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet7.i SHEET 45 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 6

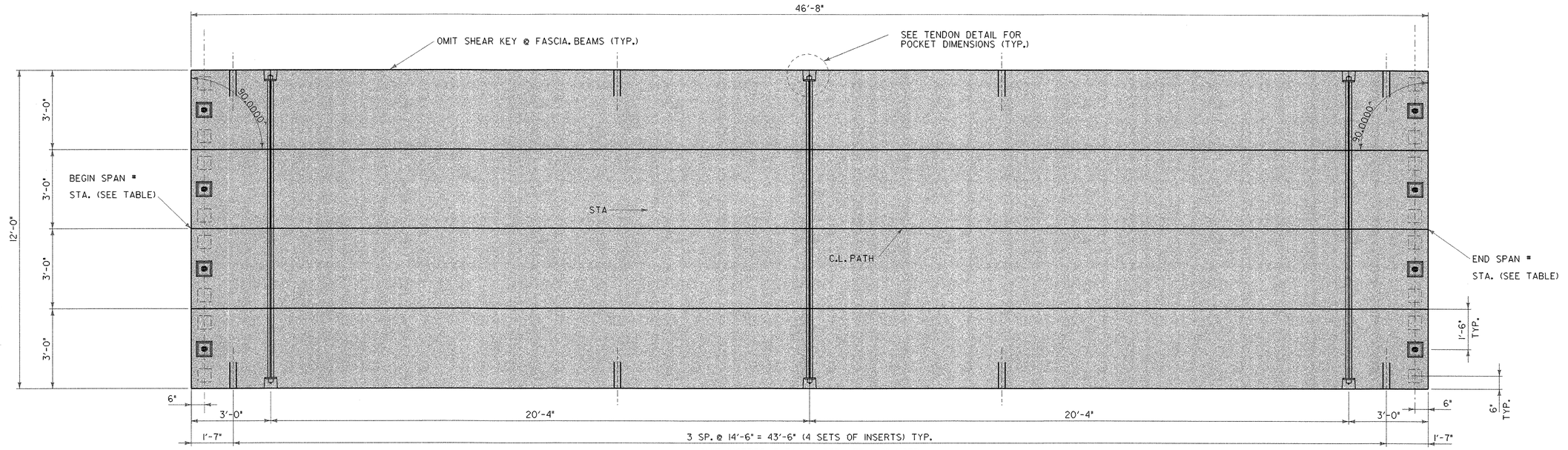
SCALE 1/2" = 1'-0
1 0 1 2

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH.
THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4 "

SLAB DETAILS
SPAN 6

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet8.i SHEET 46 OF 87



PRESTRESSED SLAB LAYOUT
SPANS 7-18, 21, AND 25-37

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

TABLE

SPAN #	BEGIN SLAB STATION	END SLAB STATION
7	12+61.34	13+08.01
8	13+08.05	13+54.72
9	13+54.76	14+01.43
10	14+01.47	14+48.14
11	14+48.18	14+94.85
12	14+94.89	15+41.56
13	15+41.60	15+88.27
14	15+88.31	16+34.98
15	16+35.02	16+81.69
16	16+81.73	17+28.40
17	17+28.44	17+75.11
18	17+75.15	18+21.82
21	19+13.93	19+60.60
25	20+98.59	21+45.26
26	21+45.30	21+91.97
27	21+92.01	22+38.68
28	22+38.72	22+85.39
29	22+85.43	23+32.10
30	23+32.14	23+78.81
31	23+78.85	24+25.52
32	24+25.56	24+72.23
33	24+72.27	25+18.94
34	25+18.98	25+65.65
35	25+65.69	26+12.36
36	26+12.40	26+59.07
37	26+59.11	27+05.78

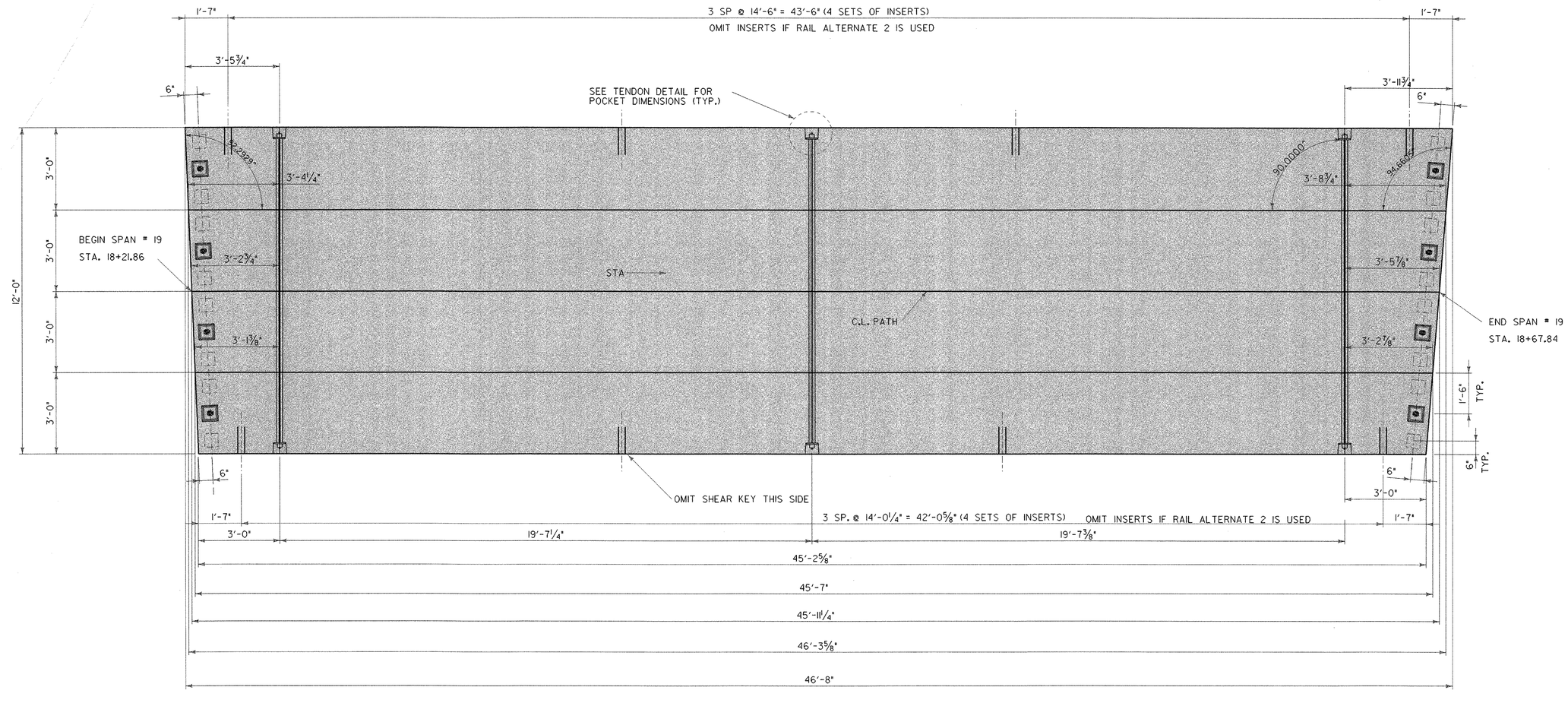
THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4".

SEE SHEETS 54 FOR DETAILS OF INSERTS FOR RAILING ANCHORS.

SLAB DETAILS
SPANS 7-18, 21, 25-37

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet9.i



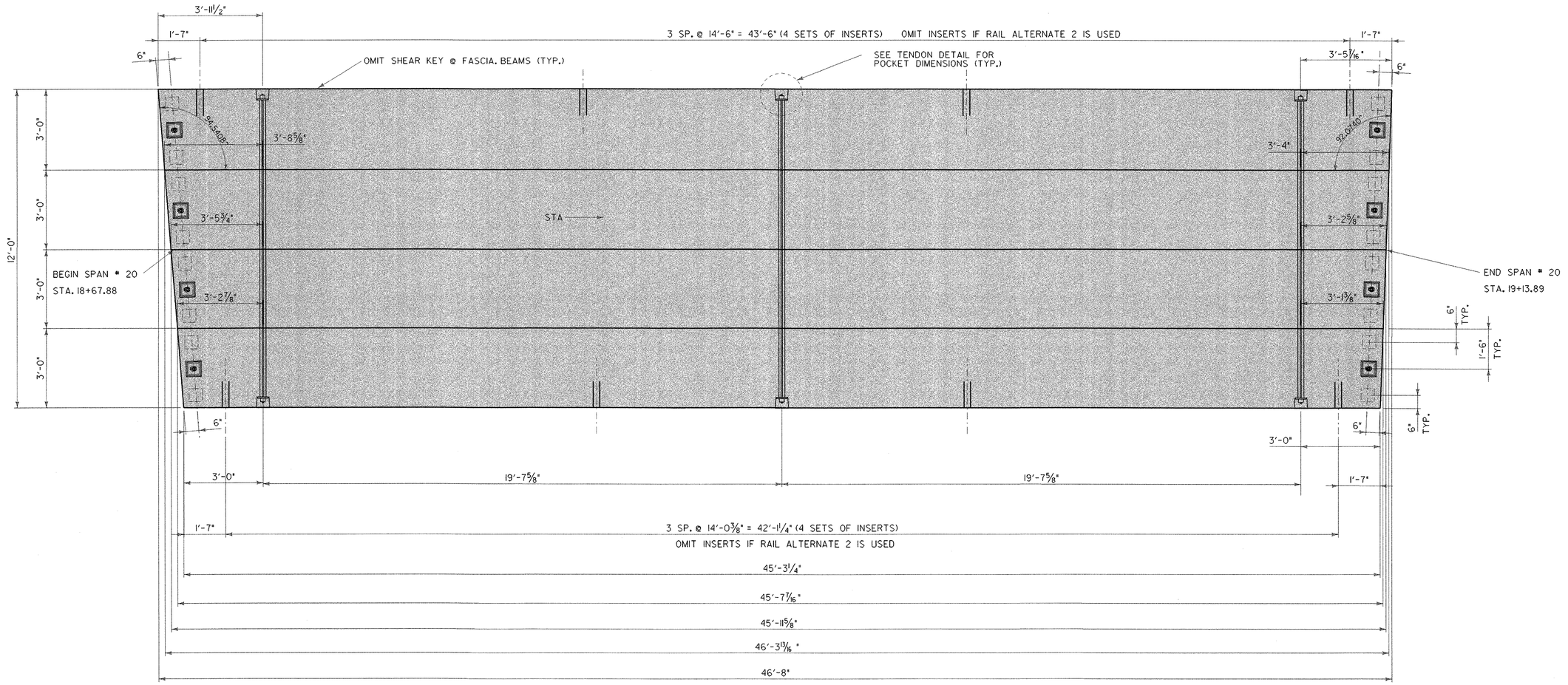
THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY ¼ "

PRESTRESSED SLAB LAYOUT
SPAN 19

SCALE ½" = 1'-0
1 0 1 2

SLAB DETAILS
SPAN 19

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)
FILE NAME: /str5/03f038/sf038pstdet.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038pstdet10.i	SHEET 48 OF 87



PRESTRESSED SLAB LAYOUT
SPANS 20

SCALE ½" = 1'-0

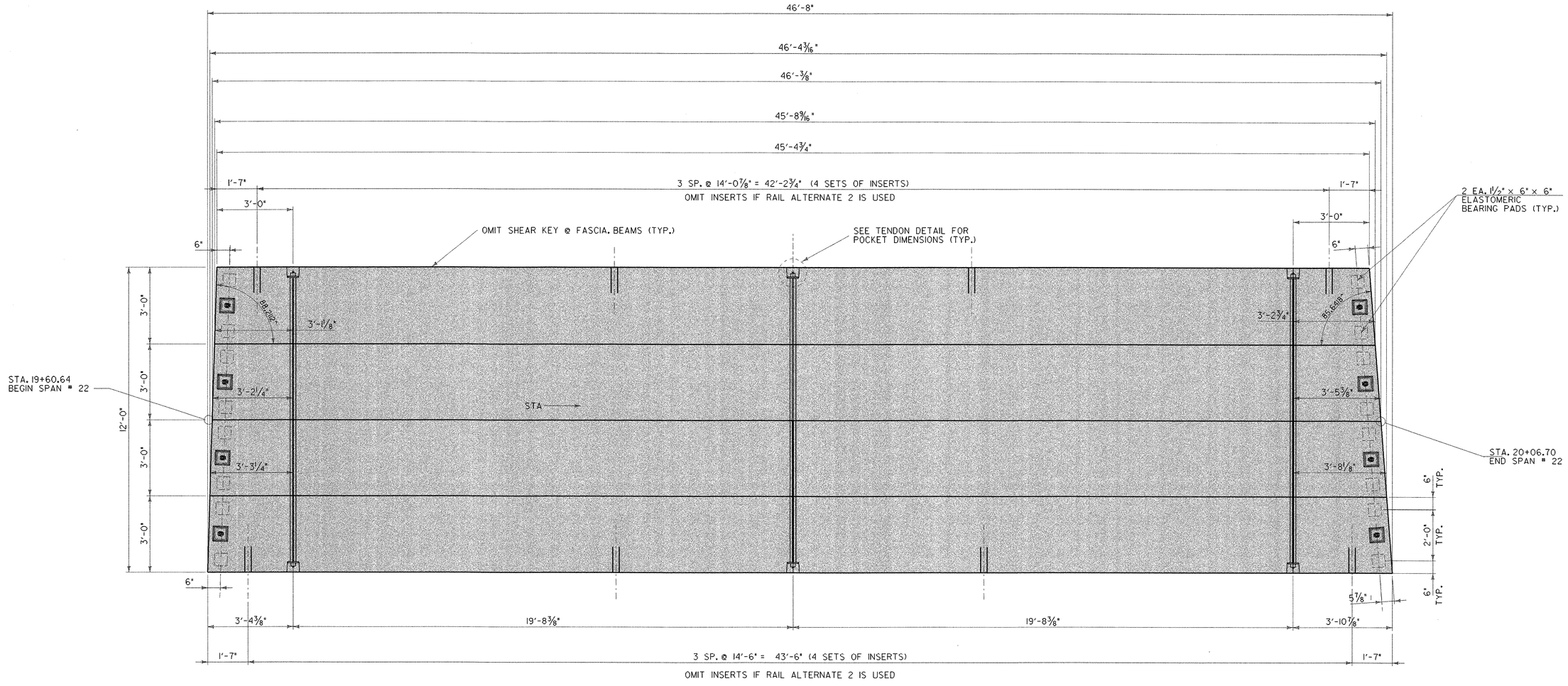
0 1 2

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH.
THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY ¼ "

SLAB DETAILS
SPAN 20

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn		PLOT DATE:	05-AUG-2003
PROJECT LEADER:	C. KELLER	DRAWN BY:	J. GEORGE
DESIGNED BY:	J. GEORGE	CHECKED BY:	M.E.M.
sf038pstdet11.i		SHEET	49 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 22

SCALE 1/2" - 1'-0

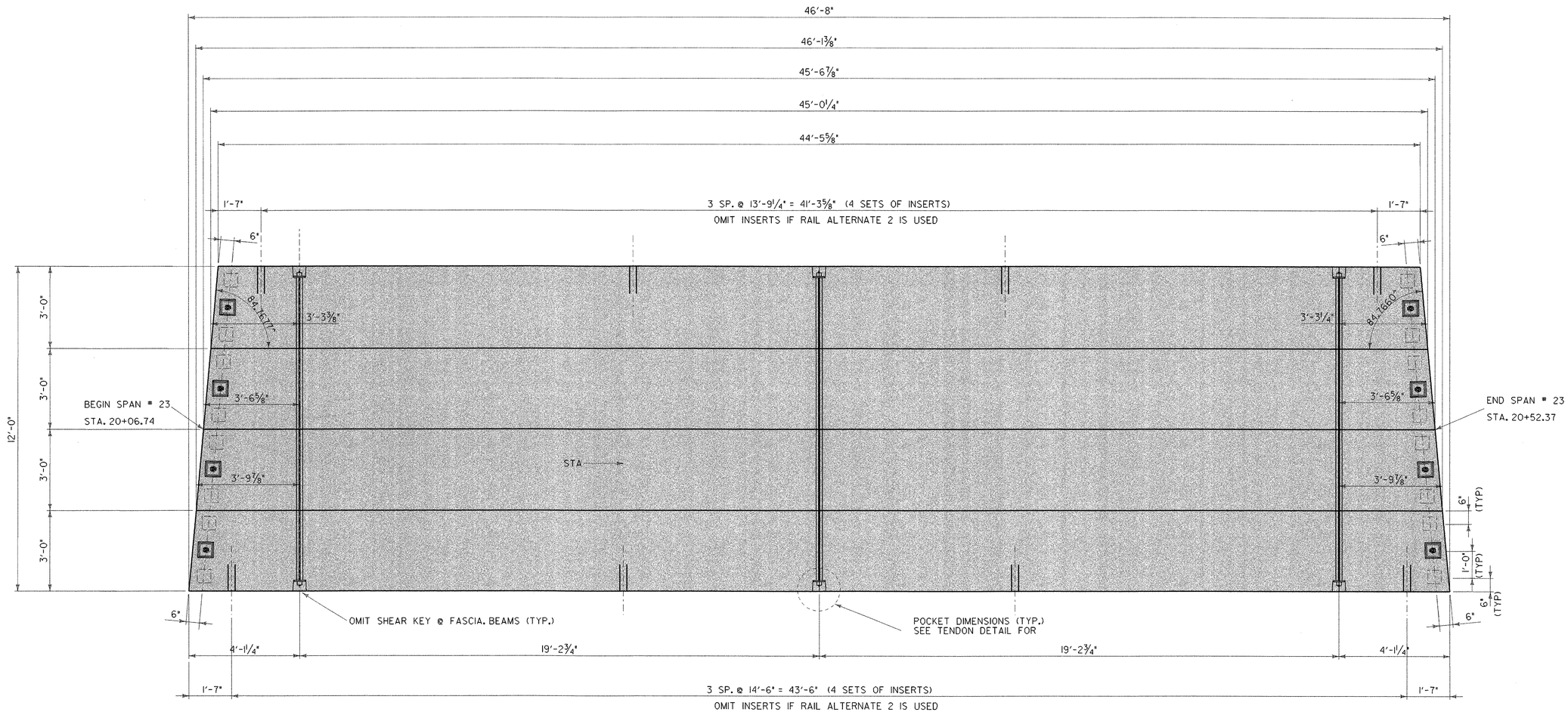
1 0 1 2

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4 "

SLAB DETAILS SPAN 22

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet12.i SHEET 50 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 23

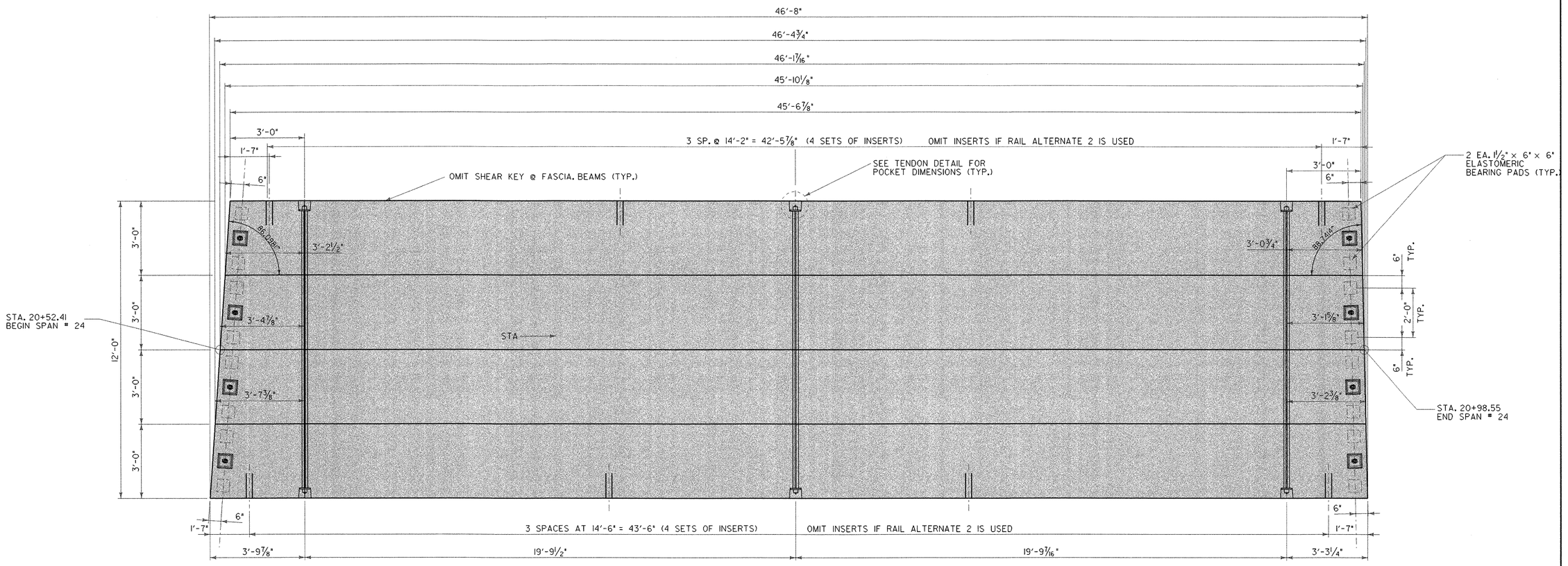
SCALE 1/2" = 1'-0

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH.
THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4 "

SLAB DETAILS
SPANS 23

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038pstdet.dgn		PLOT DATE:	05-AUG-2003
PROJECT LEADER:	C. KELLER	DRAWN BY:	J. GEORGE
DESIGNED BY:	J. GEORGE	CHECKED BY:	M.E.M.
sf038pstdet13.i		SHEET	51 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 24

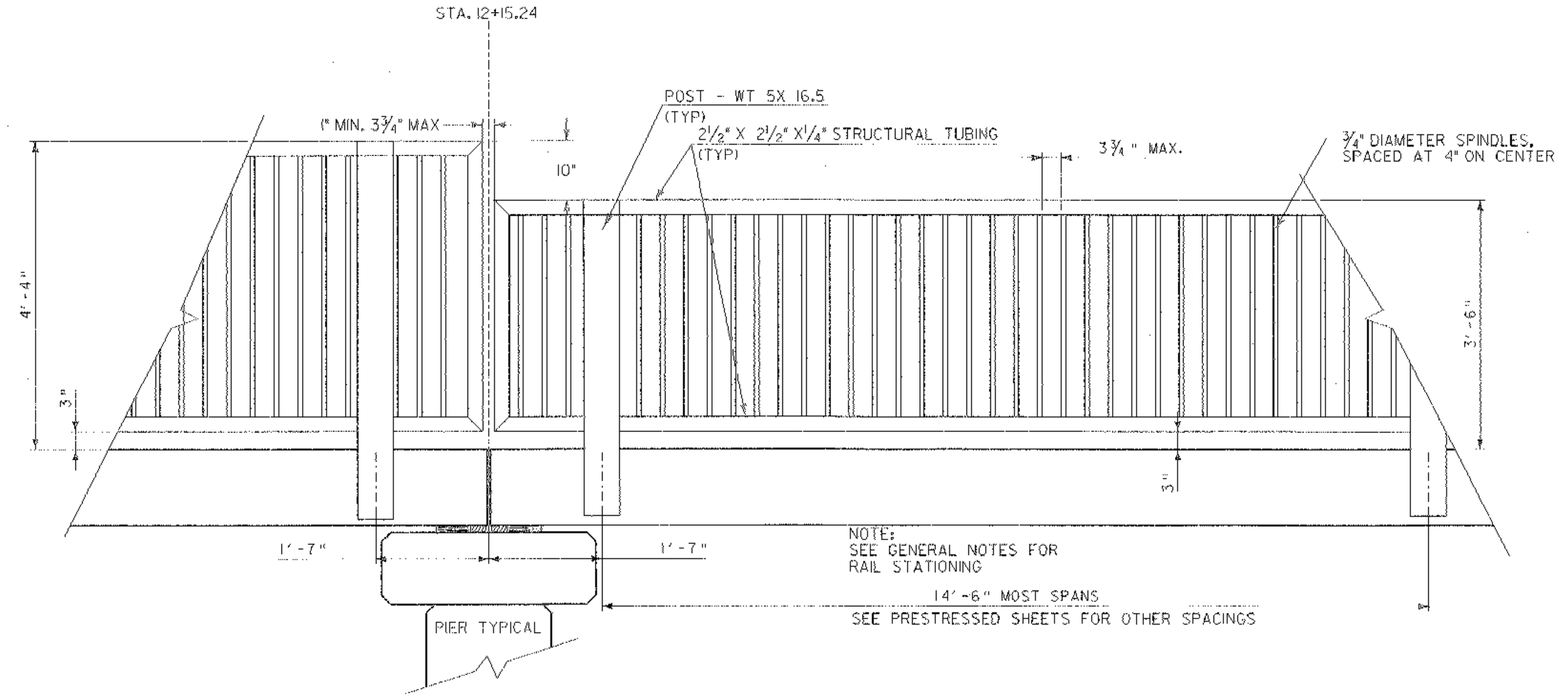
SCALE ½" = 1'-0
1 0 1 2

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINSH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY ¼"

SLAB DETAILS SPAN 24

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

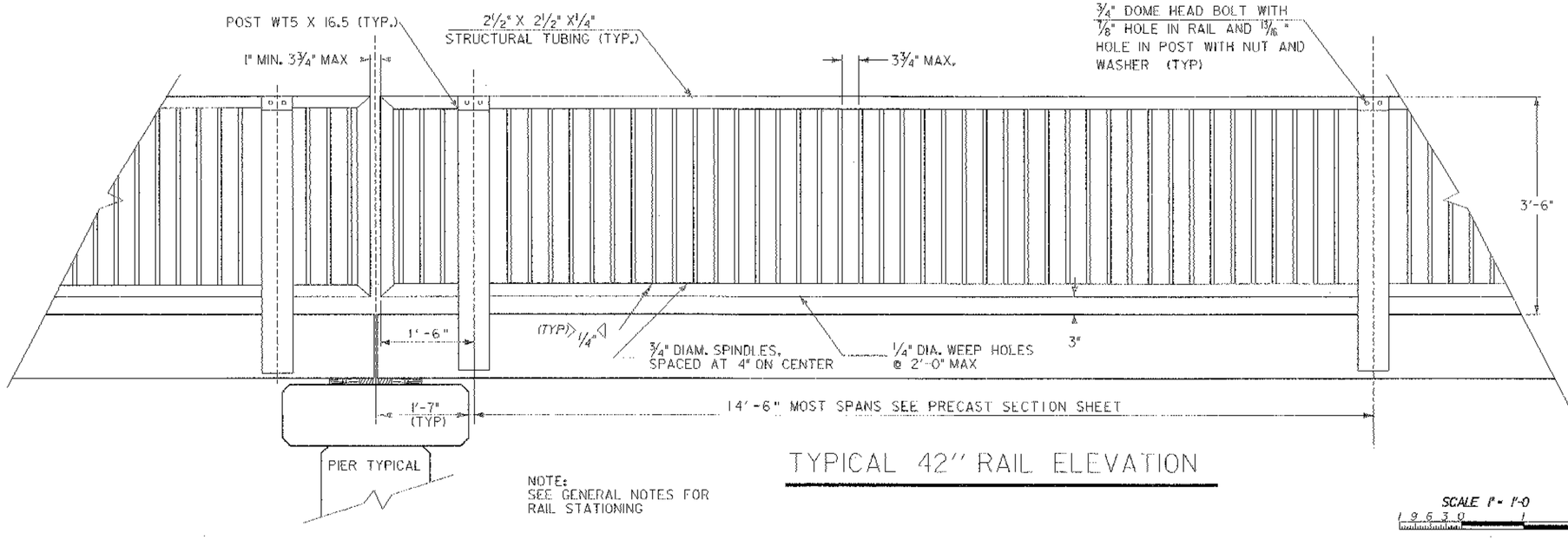
FILE NAME: /str5/03f038/sf038pstdet.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
sf038pstdet14.1 SHEET 52 OF 87



RAIL ELEVATION @ STA 12+15.24

SCALE 1" = 1'-0

NOT DONE



NOTE:
SEE GENERAL NOTES FOR
RAIL STATIONING

TYPICAL 42" RAIL ELEVATION

SCALE 1" = 1'-0

NOTES

1. ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS SHALL BE ONE OF THE FOLLOWING: ASTM A449 OR AASHTO M164 GALV. TO AASHTO M232

2. POSTS, AND SPINDLES SHALL CONFORM TO AASHTO M270, GR 36.

3. STRUCTURAL TUBING RAILS SHALL CONFORM TO ASTM A-500, GRADE B.

4. WELDING SHALL MEET THE REQUIREMENTS OF SECTION 506.10 OF THE STANDARD SPECIFICATIONS

5. UNLESS OTHERWISE NOTED, ANCHOR BOLTS ARE SCREWED INTO GALV. INSERTS CAST INTO THE PRE-CAST CONCRETE SLABS.

6. WHEREVER FEASIBLE, THE HAND RAIL SECTIONS SHALL BE FULL LENGTH (46'-6")

7. VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED, PROVIDED THAT THEY HAVE THE SAME STRENGTH AS THE SYSTEM SHOWN.

8. CUT EDGES SHALL BE GROUND FREE OF BURRS AND RAGGED EDGES. EXPOSED ENDS, IF ANY, SHALL BE COPED.

9. POSTS SHALL BE INSTALLED NORMAL TO GRADE.

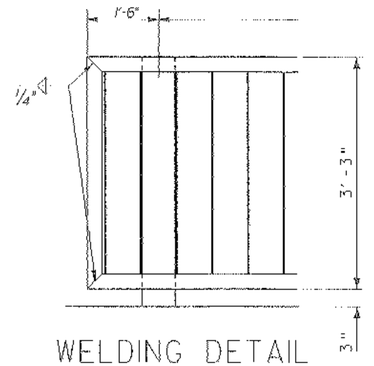
10. PEDESTRIAN RAILING SHALL BE PAID FOR UNDER ITEM 525.25, "METAL HAND RAILING (MOD.) (FASCIA MOUNTED PAINTED STEEL) - ALTERNATE 1".

11. ALL MATERIALS PROVIDED UNDER ITEM 525.15, "METAL HAND RAILING (MOD.) (FASCIA MOUNTED PAINTED STEEL) - ALTERNATE 1", AS WELL AS MATERIAL PROVIDED UNDER ITEM NUMBER 620.12, "CHAIN LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1", AND ITEM 620.16, "GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1", SHALL BE PAINTED IN ACCORDANCE WITH SECTION 513, OF THE SUPPLEMENTAL SPECIFICATIONS. NO GREASING OF THE PAINTED STEEL IS REQUIRED. THE FINAL COLOR OF THESE ITEMS WILL BE BLACK.

12. ALL PAINTING SHALL BE DONE UNDER SHOP CONDITIONS.

13. PAYMENT FOR THE PREPARATION, CONTAINMENT, PAINTING, AND ANY TESTING OF THE COATINGS, SHALL BE INCLUDED IN THE PAY ITEMS LISTED IN NOTE 11, AND SHALL NOT BE PAID FOR SPERATELY.

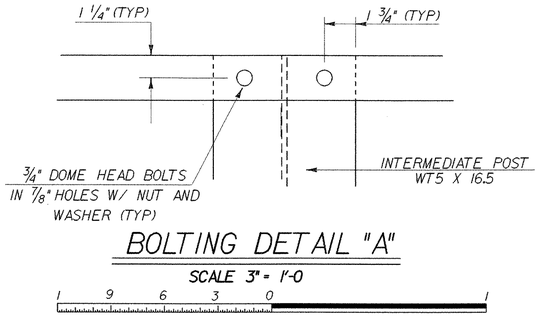
℄ RAILING POST



WELDING DETAIL
END OF RAIL UNITS
(TYP)

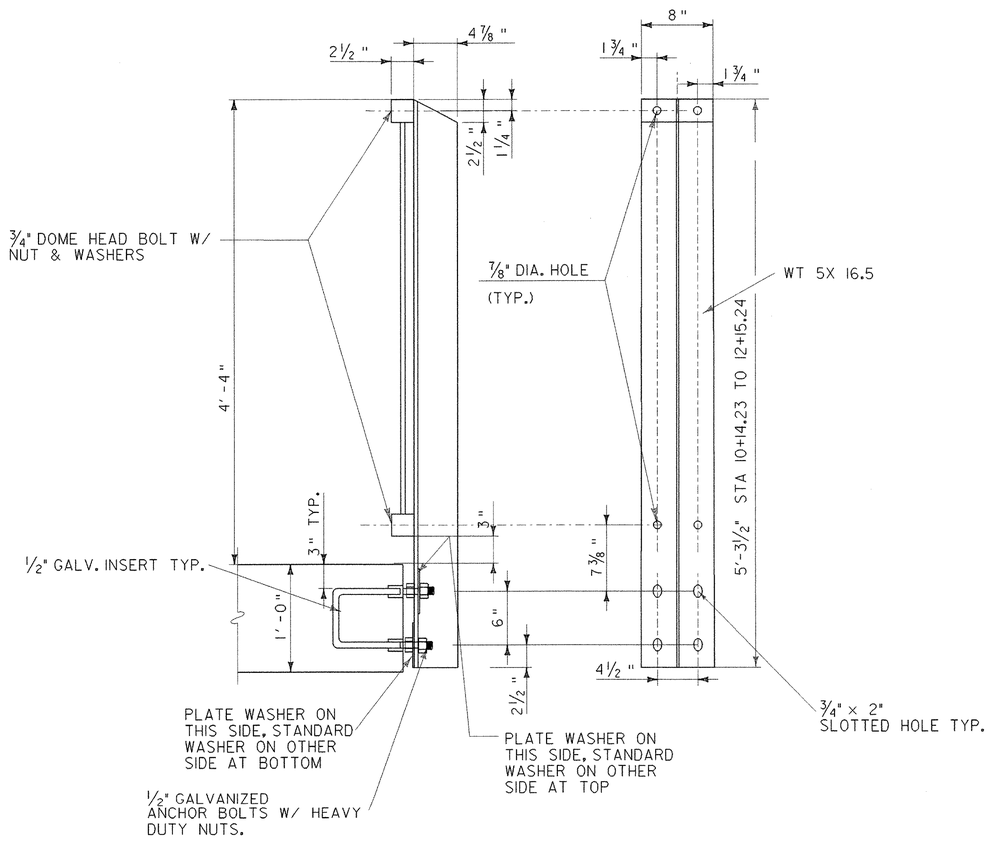
RAIL DETAILS ALTERNATE 1

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038roll.I	SHEET 53 OF 87



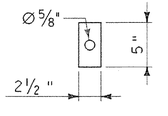
BOLTING DETAIL "A"

SCALE 3" = 1'-0

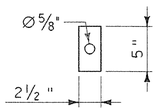


SECTION FASCIA MOUNTED 52" RAIL

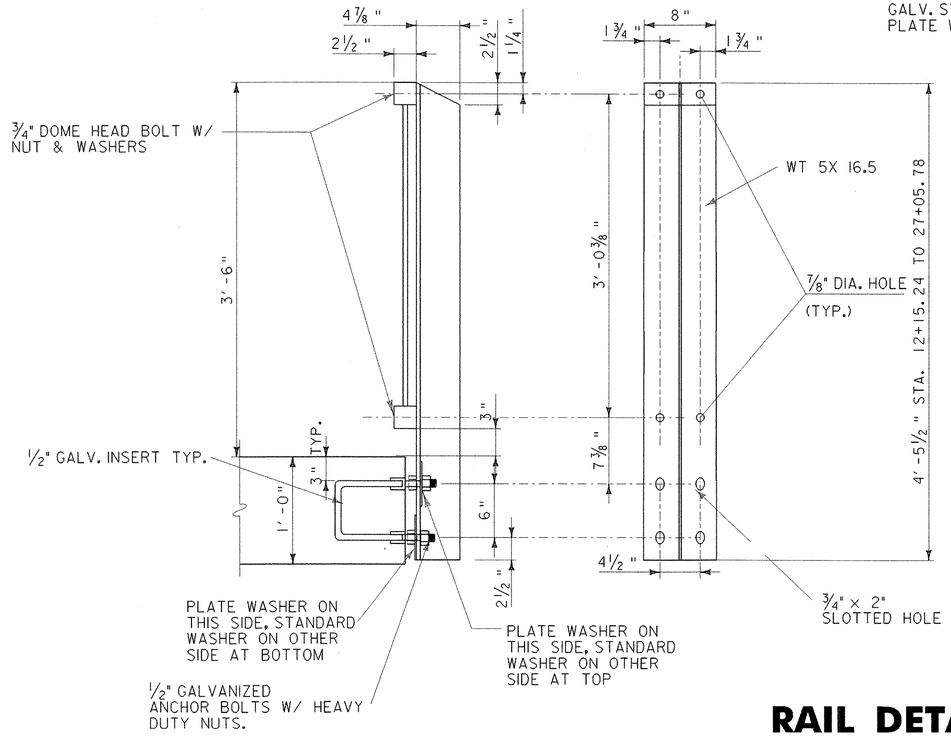
SCALE 1 1/2" = 1'-0



GALV. STEEL PLATE WASHER



GALV. STEEL PLATE WASHER

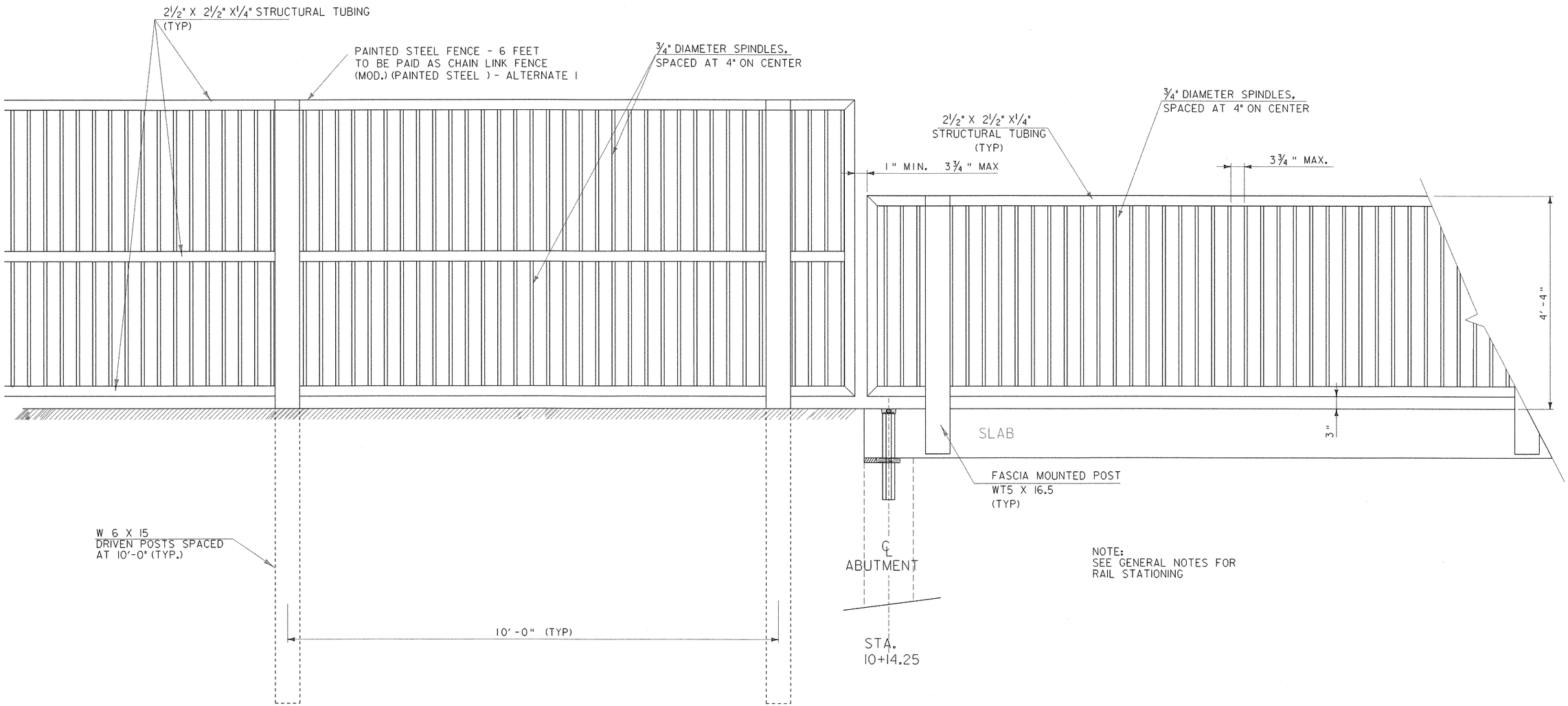


SECTION FASCIA MOUNTED 42" RAIL

SCALE 1 1/2" = 1'-0

RAIL DETAILS ALTERNATE 1

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038rail2.i	SHEET 54 OF 87



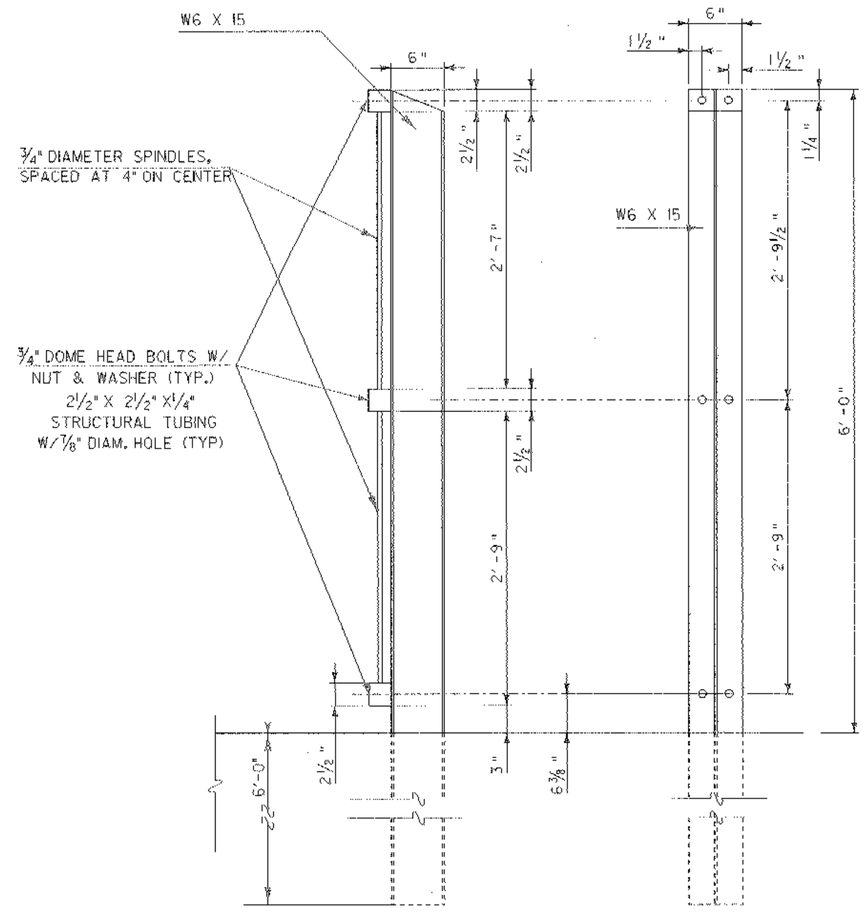
RAIL ELEVATION @ STA 10+14.25

SCALE 1" = 1'-0

1 9 6 3 0 1 2

RAIL DETAILS ALTERNATE 1

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038rail3.i	SHEET 55 OF 87

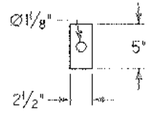


SIDE ELEVATION

BACK ELEVATION

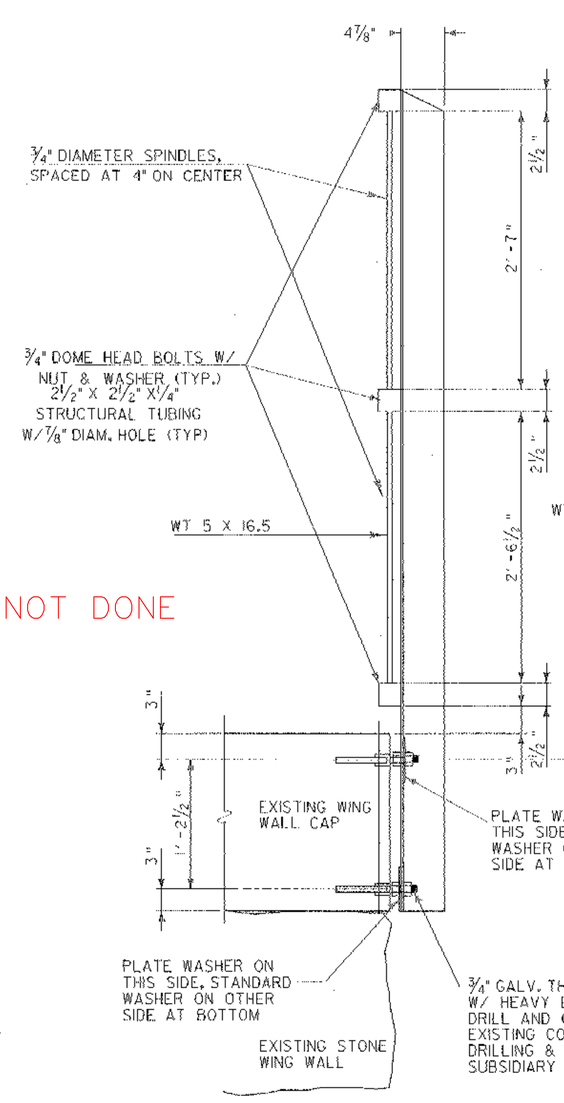
SECTION
DRIVEN POST MOUNTED FENCE

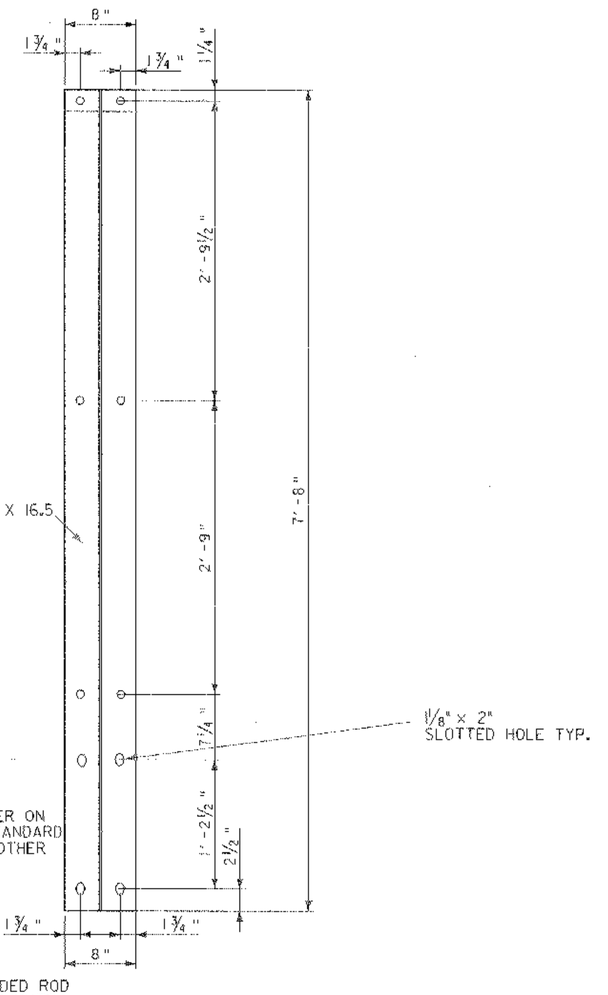
SCALE 1½" = 1'-0



GALV. STEEL PLATE WASHER FOR 1⅛" × 2" SLOTTED HOLE TYP.

NOT DONE





SECTION
FASCIA MOUNTED FENCE

SCALE 1½" = 1'-0

FENCE DETAILS ALTERNATE 1

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038rail4.1	SHEET 56 OF 87

END BRIDGE #3
STA 8+76

1" MIN. 3" MAX

RAIL ATTACHED TO TRUSS - 6'-0" HIGH FROM STA. 8+50 TO 8+77

NOT DONE

EXISTING CONCRETE

WING WALL

FASCIA MOUNTED POSTS
WT 5X16.5
SPACED AT 10'-0" (TYP.)

EXISTING GRANITE

WING WALL

RAIL ELEVATION @ STA 8+76

SCALE 1" = 1'-0

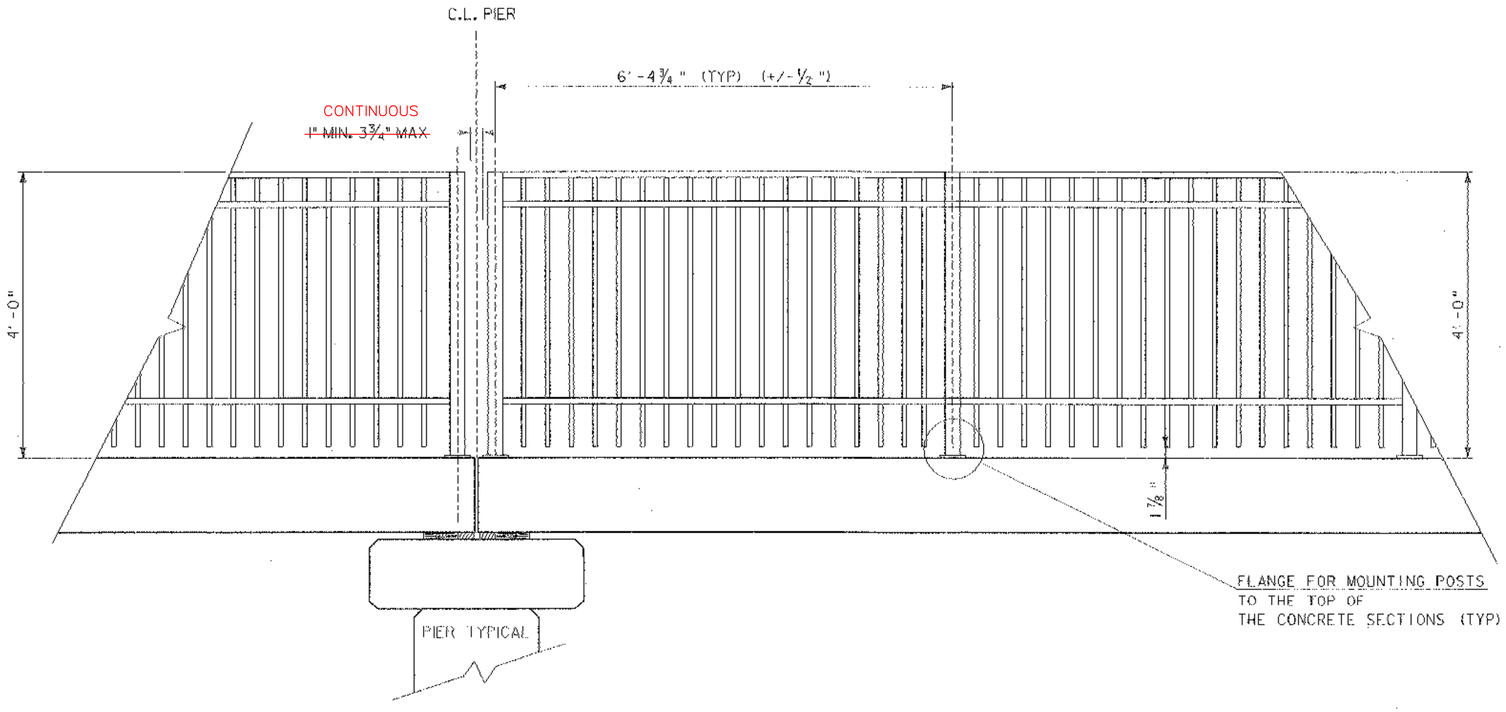
1 0 1 2

FENCE DETAILS
ALTERNATE 1

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP BIKE(48)

FILE NAME: /str5/03f038/sf038bdr.dgn
PROJECT LEADER: C. KELLER
DESIGNED BY: J. GEORGE
sf038rail5.t

PLOT DATE: 05-AUG-2003
DRAWN BY: J. GEORGE
CHECKED BY: M.E.M.
SHEET 57 OF 87



RAIL ELEVATION

SCALE 1" = 1'-0

1 9 6 3 0 1 2

NOTES

RAIL SYSTEM SHALL BE MASTER-HALCO COMMERCIAL CLASSIC PREMIER, ORMANENTAL FENCE OR EQUIVALENT AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

All primary fence components; pickets, rails and posts shall be manufactured from coil steel having a yield strength of 50,000 psi.

All primary fence components; pickets, rails and posts shall be galvanized by the hot dip process to meet the requirements of ASTM A526 and shall have a minimum zinc coating thickness of .90 oz/sq. ft. (coating designation G90).

Pickets shall be ¾" sq. 16 ga., cold rolled steel tubing manufactured per ASTM A513.

Rails shall be made of 14 ga., cold rolled steel. The cross-sectional shape of the rails shall conform to the manufacturer's rail design. The cross-sectional outside dimensions of the rails shall be 1-1/2" sq. Each rail shall have a minimum weight of 2.13 pounds per square foot.

Posts shall be 2-1/2" sq., 12 ga., cold rolled steel tubing manufactured per ASTM A513. 2.03 Finish

Galvanized steel fence components shall be subjected to a six-stage wash and pre-treated system which includes a zinc phosphatizer and a non-chromate sealer.

Galvanized steel fence components shall then receive a two-step powder coating applied by the electrostatic spray process. The base coat shall be a thermosetting epoxy powder coating with a minimum coating thickness of 2-4 mils. The top coat shall be a mar-resistant TGIC polyester powder coating with a minimum coating thickness of 2-4 mils.

Color shall be black.

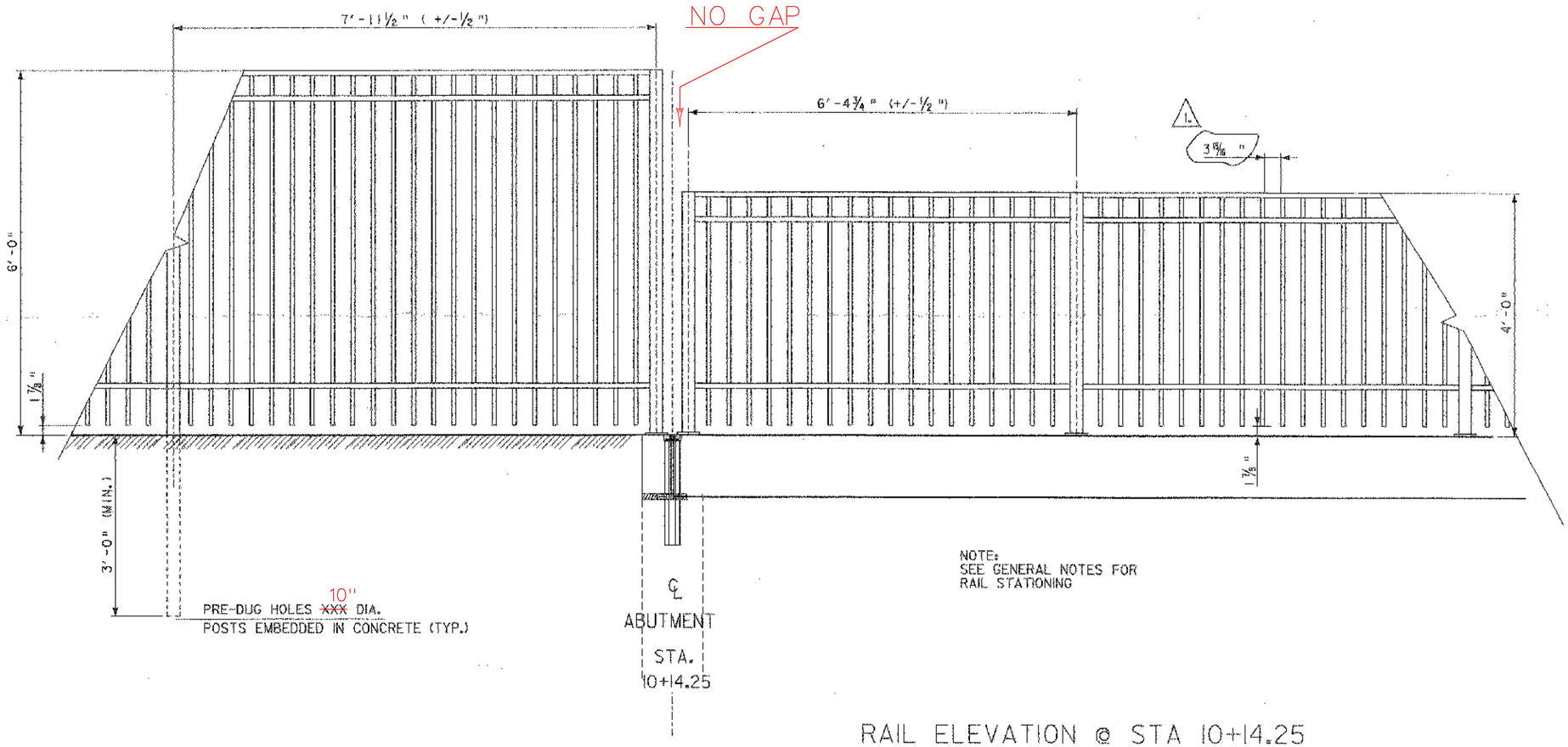
Completed sections shall be capable of supporting a 400 pound load at mid span without permanent deformation.

Gates shall be fabricated using panel material except the uprights which shall be 1-3/4$^{9}/_{32}$ sq. 14 ga. All intersections of gate material shall be joined by welding.

RAIL NOTES ALTERNATE 2

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)

FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038rail6.1	SHEET 61 OF 87



NOTE:
SEE GENERAL NOTES FOR
RAIL STATIONING

RAIL ELEVATION @ STA 10+14.25

SCALE 1" = 1'-0

1 REVISED 8/27/2003

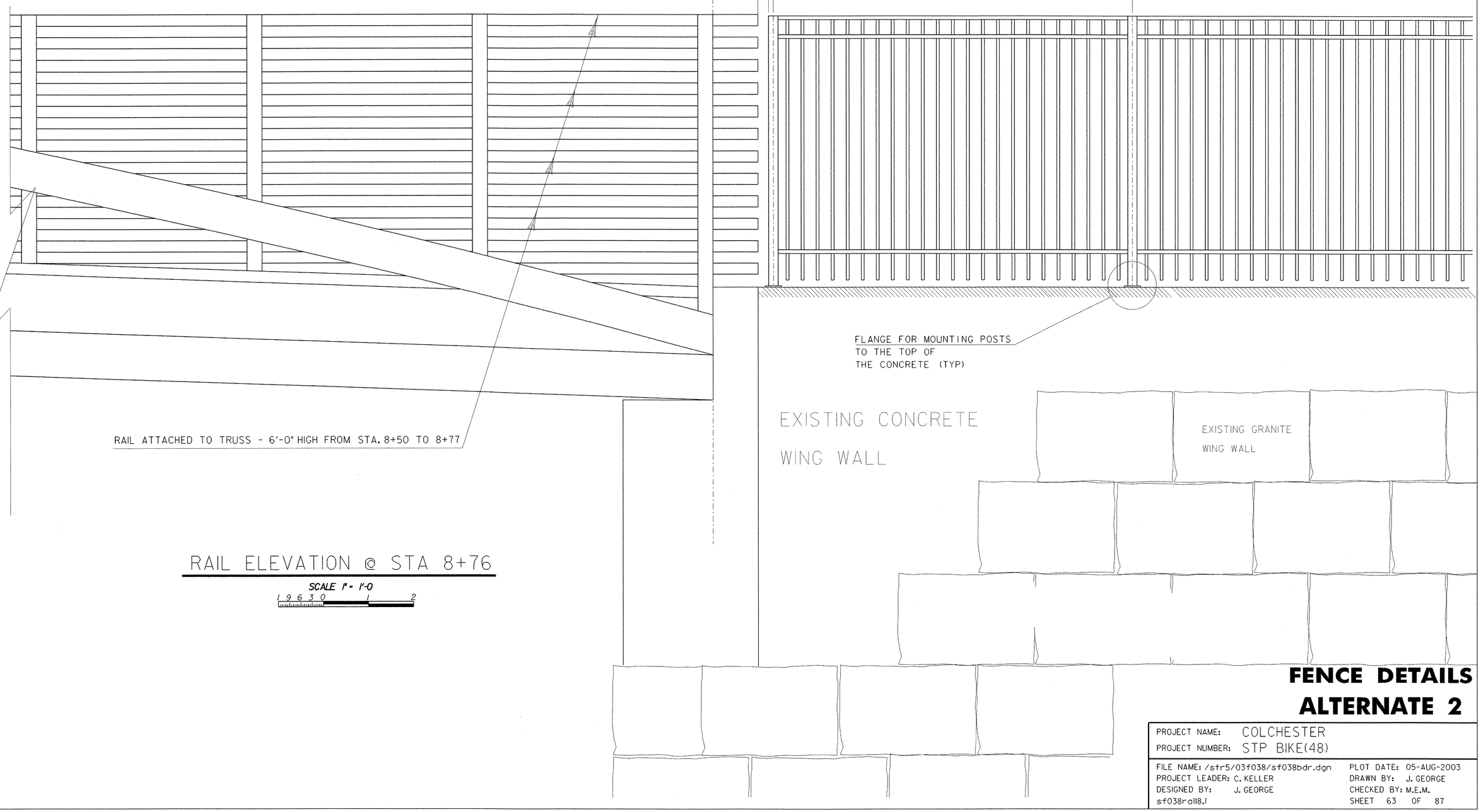
RAIL DETAILS ALTERNATE 2

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKE(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 27-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038ral17.1	SHEET 62 OF 87

END BRIDGE #3
STA 8+76

7'-11½" (+/-½") (TYP)

1" MIN. 3" MAX



RAIL ELEVATION @ STA 8+76

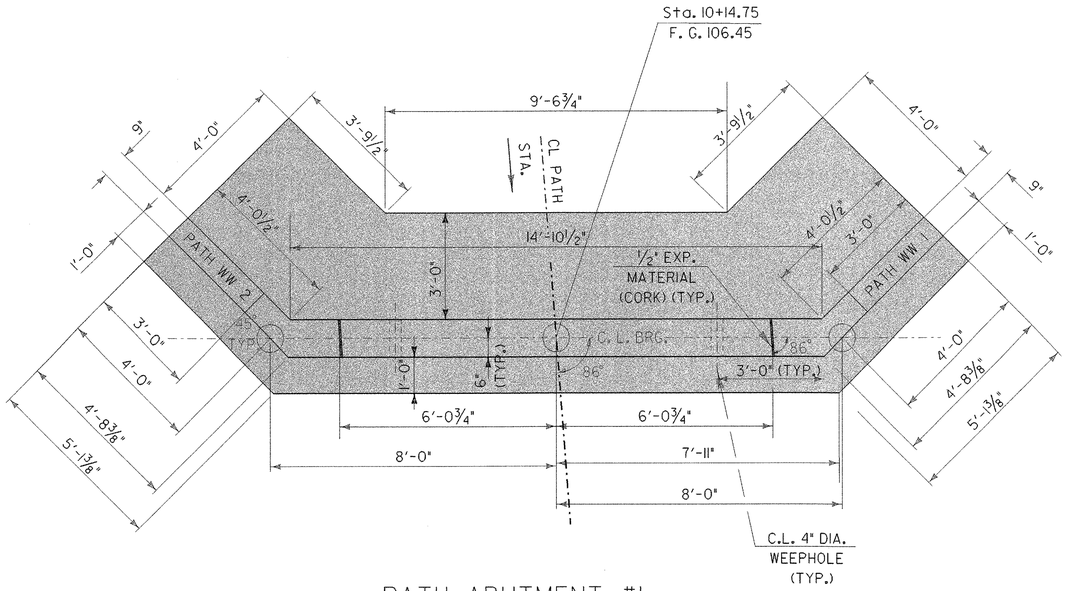
SCALE 1" = 1'-0
1 9 6 3 0 1 2

FENCE DETAILS
ALTERNATE 2

PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP BIKE(48)

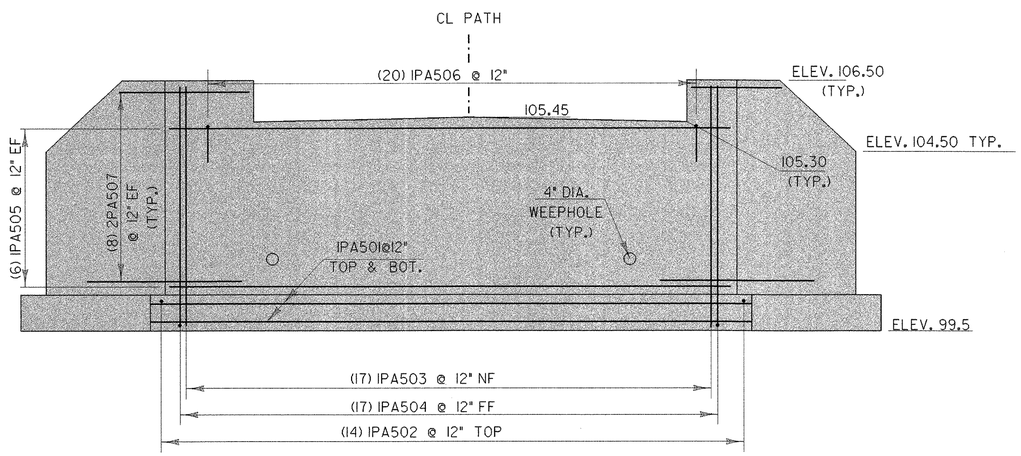
FILE NAME: /str5/03f038/sf038bdr.dgn
PROJECT LEADER: C. KELLER
DESIGNED BY: J. GEORGE
sf038rail8.i

PLOT DATE: 05-AUG-2003
DRAWN BY: J. GEORGE
CHECKED BY: M.E.M.
SHEET 63 OF 87



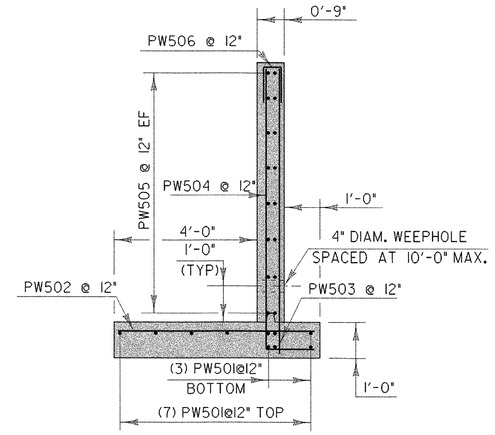
PATH ABUTMENT #1 PLAN

SCALE ½" = 1'-0



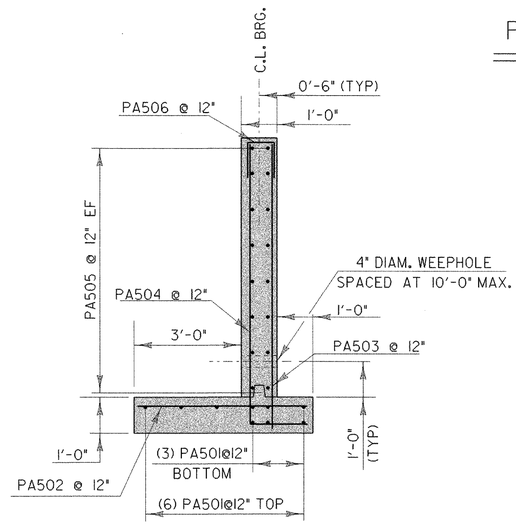
PATH ABUTMENT #1 ELEVATION

SCALE ½" = 1'-0



PATH WINGWALL TYPICAL

SCALE ½" = 1'-0



PATH ABUTMENT TYPICAL

SCALE ½" = 1'-0

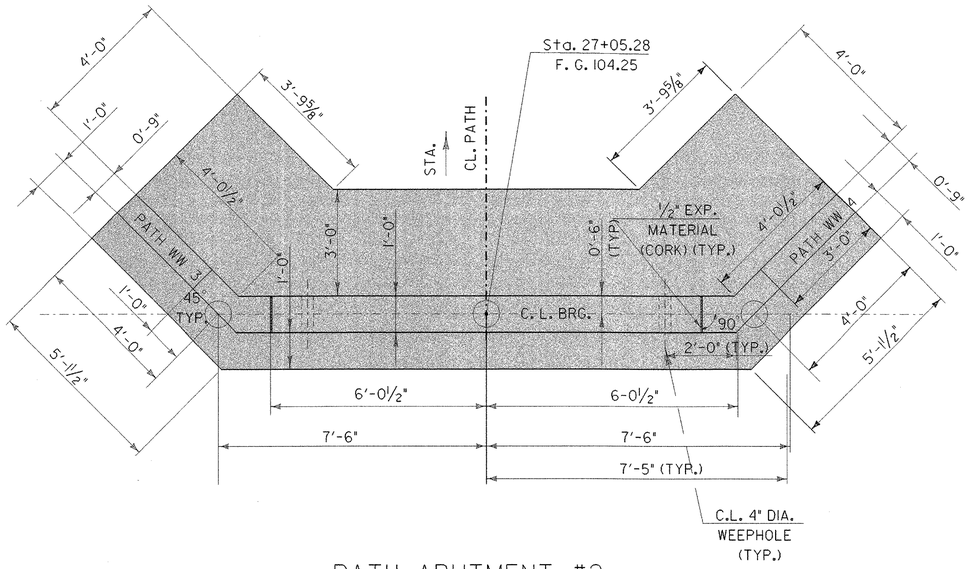
NOTE:

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

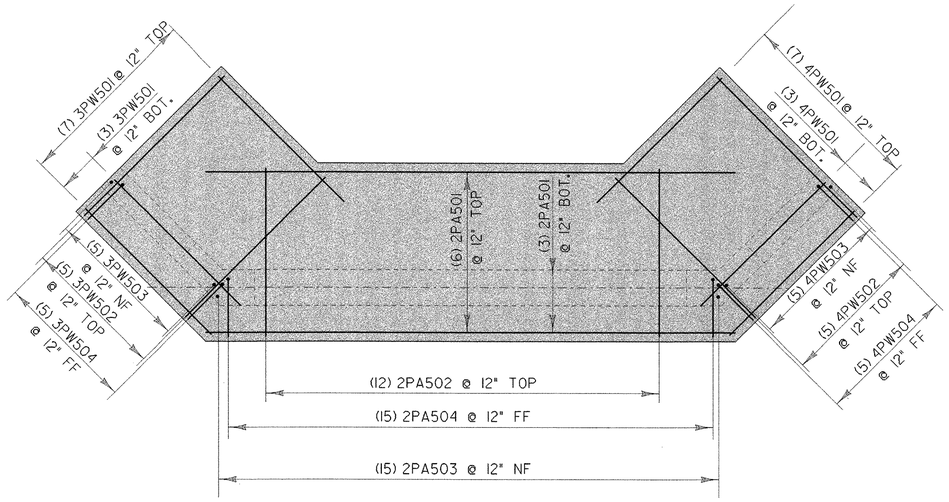
Town Of COLCHESTER	Bridge No. sf038pa2J
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
PATH ABUTMENT #1 (STA 10+14)	
LAYOUT AND REINFORCING	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By / Date	Bridge Design Supervisor C.S.KELLER / Date
PROJECT COLCHESTER	PROJECT NO. STP BIKE(48)
I.G.O.\\radfscadd\Filingcabinet$\03f038\Structures\sf038bdr.dgn	sf038pa1J
Bridge Sheet No.	Sheet 66 of 187

PLOTTED 05-AUG-2003



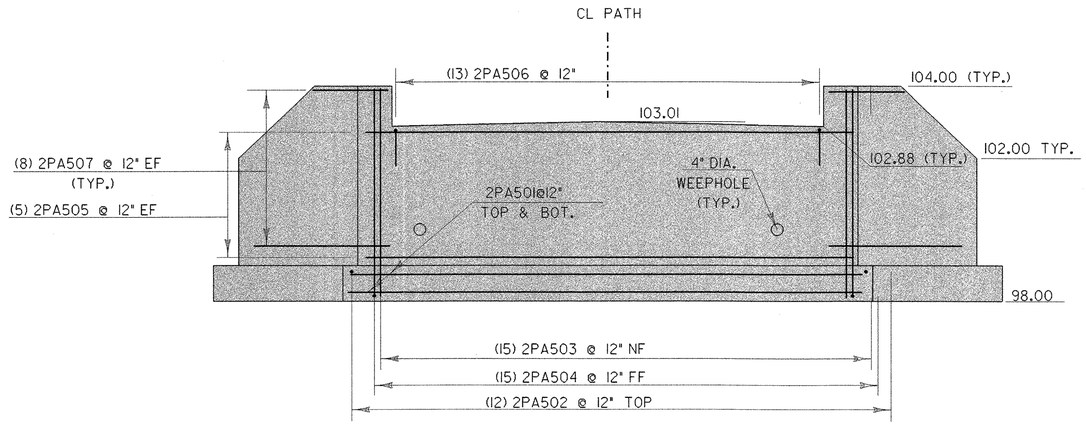
PATH ABUTMENT #2
PLAN

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



PATH ABUTMENT #2
FOOTING REINFORCING

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



PATH ABUTMENT #2
ELEVATION

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

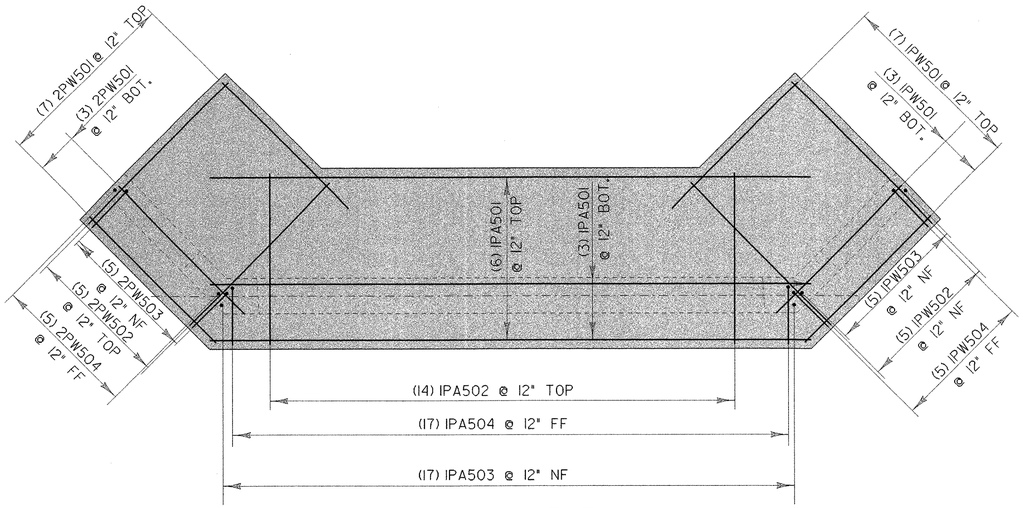
NOTE:

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

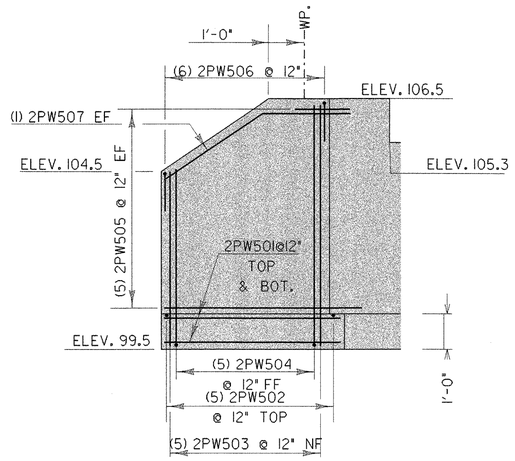
Town Of COLCHESTER	Bridge No. sf132pa2J
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
PATH ABUTMENT #2 (STA 27+05)	
LAYOUT AND REINFORCING	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT COLCHESTER	PROJECT NO. STP BIKE(48)
I.G.:\\radocadd\Filingcabinets\03f038\Structures\sf038bdr.dgn	sf132pa2J
Bridge Sheet No.	Sheet 67 of 87

PLOTTED 05-AUG-2003



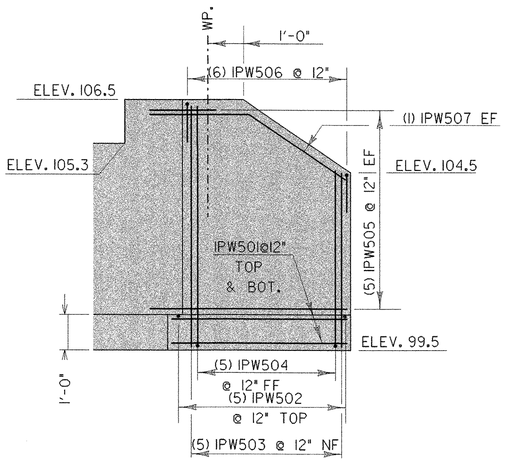
PATH ABUTMENT #1
FOOTING REINFORCING

SCALE ½"= 1'-0
1 0 1 2



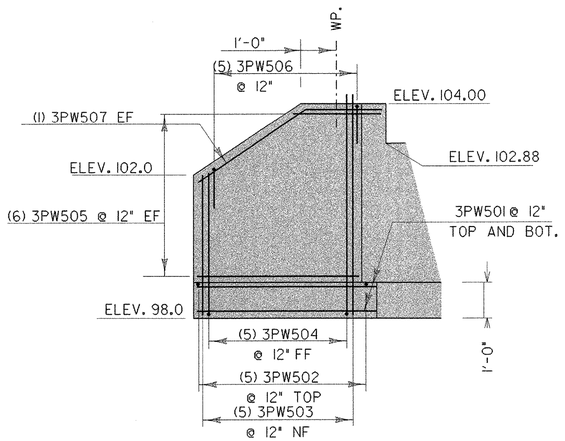
PATH WINGWALL #2
ELEVATION

SCALE ½"= 1'-0
1 0 1 2



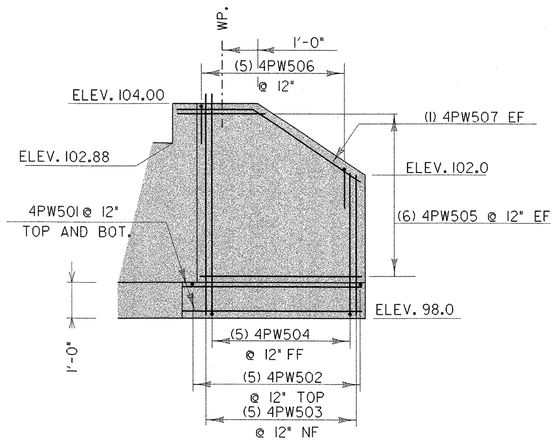
PATH WINGWALL #1
ELEVATION

SCALE ½"= 1'-0
1 0 1 2



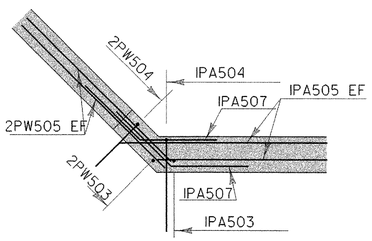
PATH WINGWALL #3
ELEVATION

SCALE ½"= 1'-0
1 0 1 2

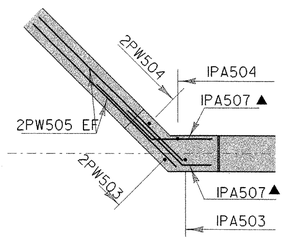


PATH WINGWALL #4
ELEVATION

SCALE ½"= 1'-0
1 0 1 2



BELOW BRIDGE SEAT
ELEVATION



ABOVE BRIDGE SEAT
ELEVATION

SCALE ½"= 1'-0
1 0 1 2

PATH ABUTMENT #1
CORNER DETAILS

NOTE:

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

SCALE ½"= 1'-0
1 0 1 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of COLCHESTER	Bridge No. sf038pwwJ
Highway No. BIKE PATH	Log Sta. / Surv. Sta.
WINGWALLS FOR PATH	
ELEVATION VIEWS	
Designed By M.EVANS-MONGEON	Drawn By M.EVANS-MONGEON
Checked By Date	Bridge Design Supervisor C.S.KELLER Date
PROJECT COLCHESTER	PROJECT NO. STP BIKE(48)
I.G.O.\\radfacadd\Filingcabinet$\03f038\Structures\sf038bdr.dgn	sf038pwwJ
Bridge Sheet No.	Sheet 68 of 87

PLOTTED 05-AUG-2003

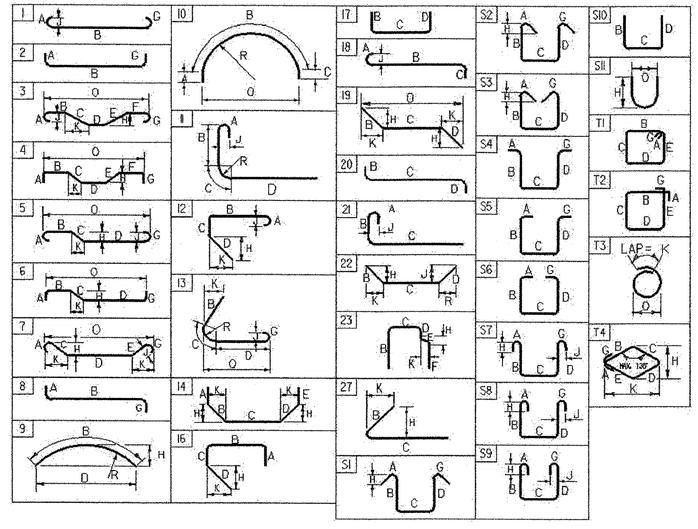
STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
				Path Abut 1													
	9	5	16'- 6"	1PA501	STR												
	14	5	4'- 6"	1PA502	STR												
	17	5	6'- 6"	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"		
				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"									
				Path Abut 2													
	9	5	16'- 6"	2PA501	STR												
	12	5	4'- 6"	2PA502	STR												
	15	5	5'- 11"	2PA503	STR												
	15	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	5'- 8"	3PW501	STR												
✳	6	5	5'- 3"	3PW502	STR												
	5	5	5'- 11"	3PW503	STR												
	5	5	7'- 3"	3PW504	S10		5'- 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	5'- 11"	4PW503	STR												
	5	5	7'- 3"	4PW504	S10		5'- 11"	1'- 4"									
✳	13	5	5'- 2"	4PW505	STR												
	5	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	19'- 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-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. E DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

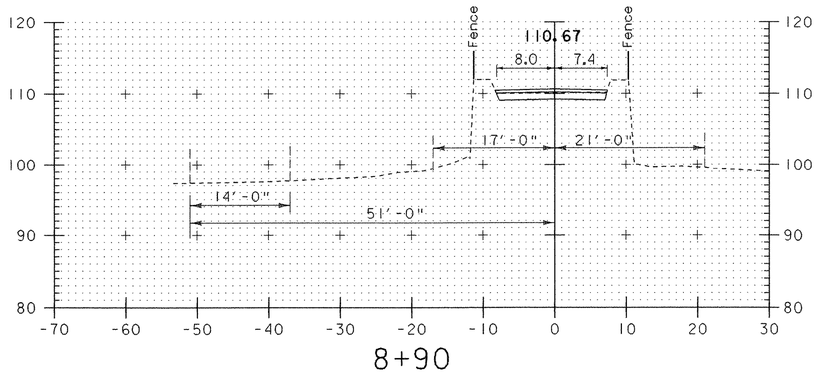
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES^2	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	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: **COLCHESTER**
PROJECT NUMBER: **STP Bike(48)**

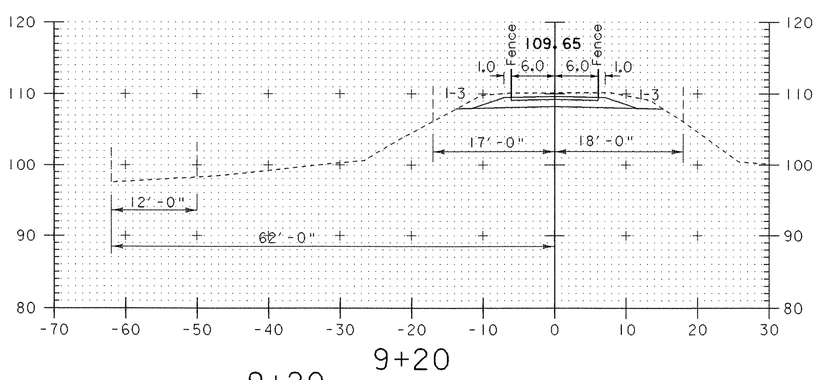
FILE NAME: **sf038reinf.xls**
PROJECT MANAGER: **C. Keller**
DESIGNED BY: **Evans-Mongeon**
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: **7/9/2003**
DRAWN BY: **Evans-Mongeon**
CHECKED BY:
SHEET **69** OF **87**

scan_rss

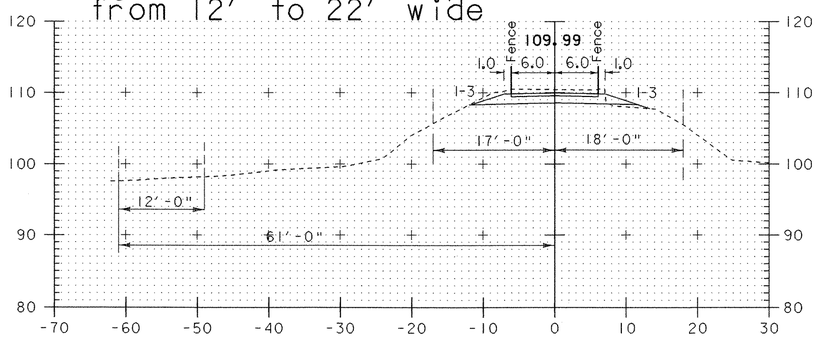


8+90



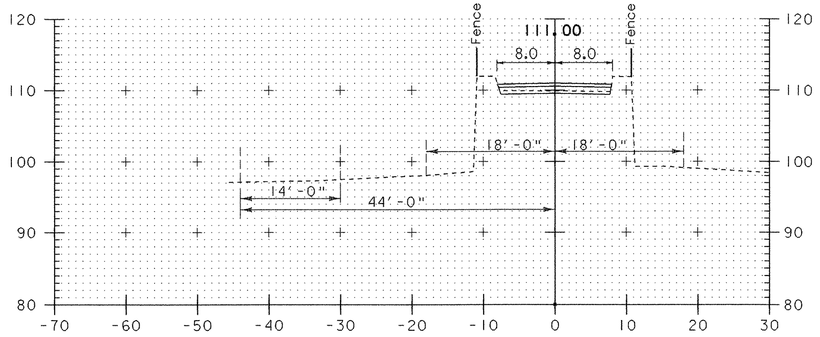
9+20

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



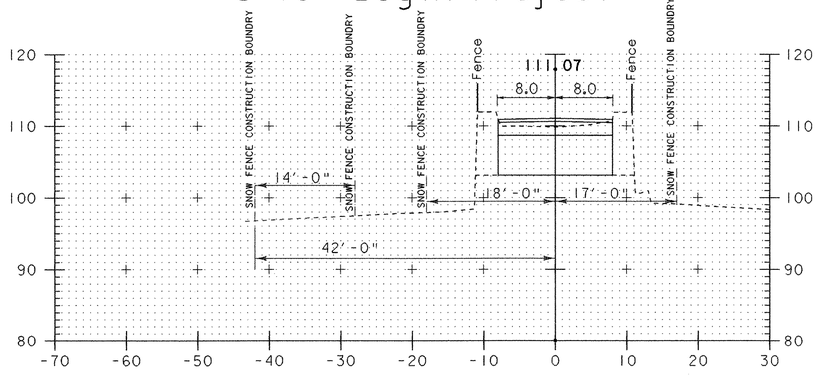
9+10

STA. 9+08 END STONE FILL,
TYPE II

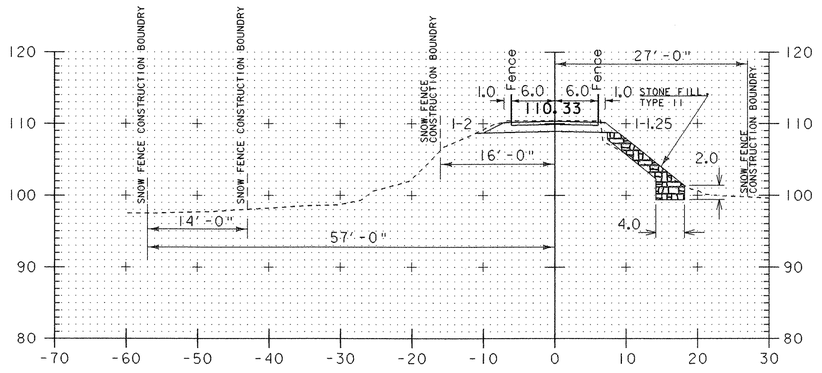


8+80

8+76 Begin Project



8+75



9+00

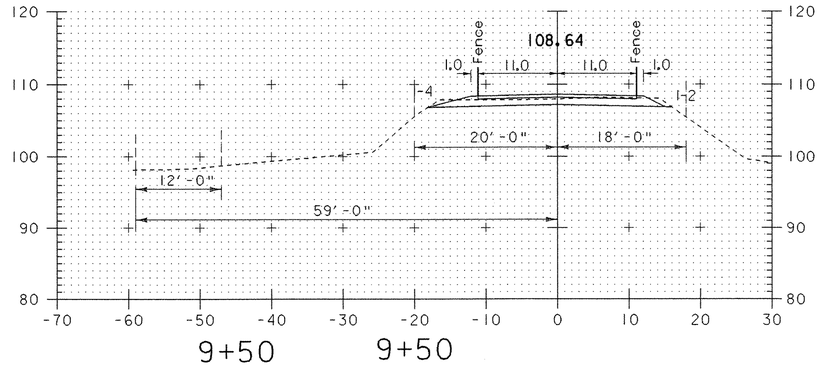
STA. 8+93 BEGIN STONE FILL,
TYPE II

CROSS SECTIONS
8+75 - 9+20

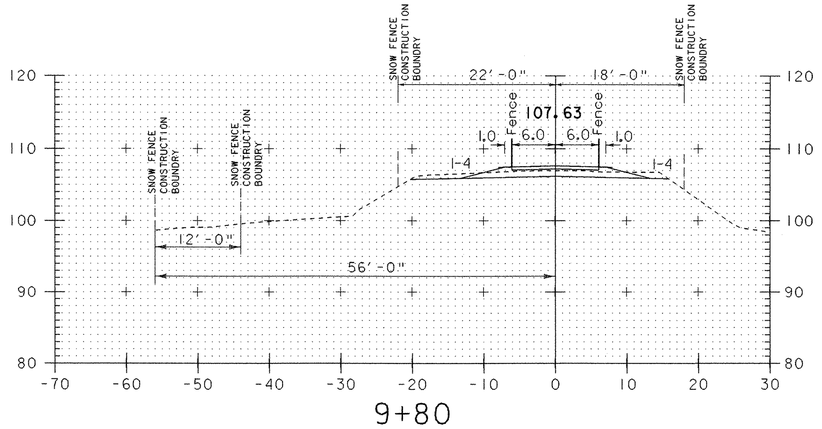
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PROJECT NUMBER:	STP Bike(48)

FILE NAME: str5/03f038/sf038xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xs2.i

PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:



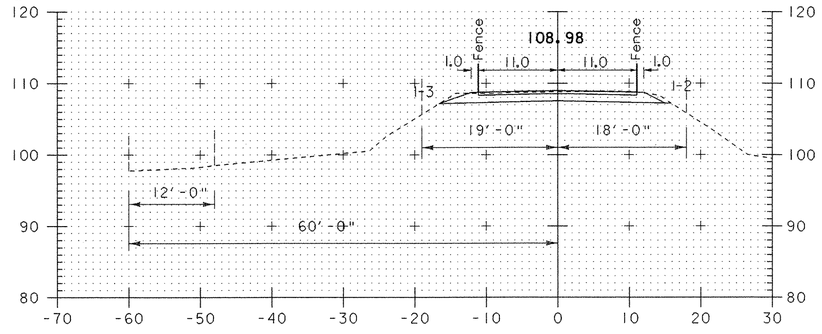
9+50



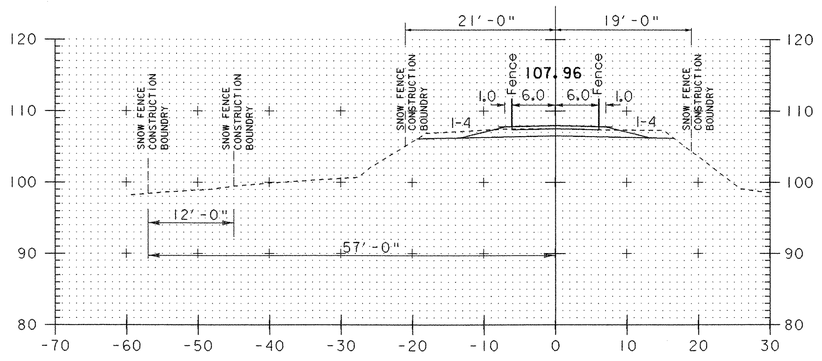
9+80

End 22' Wide Path

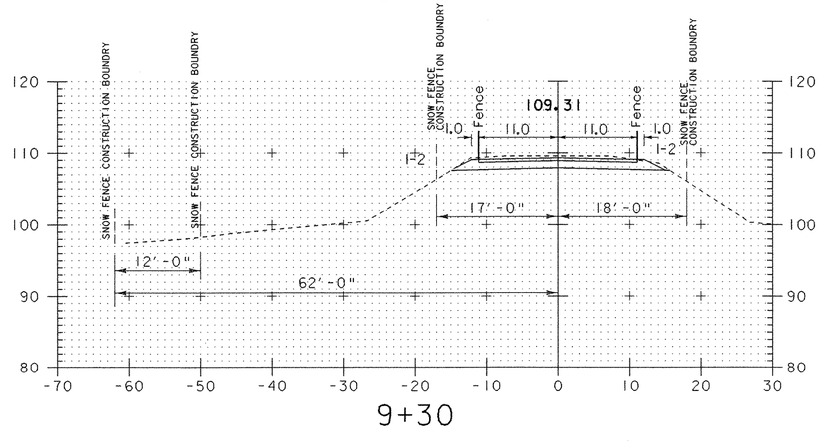
Begin Taper 22' to 12' wide



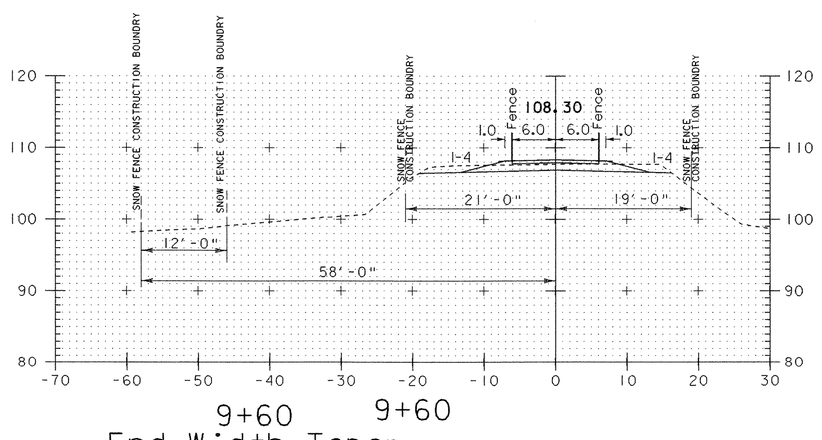
9+40



9+70



9+30



9+60 9+60

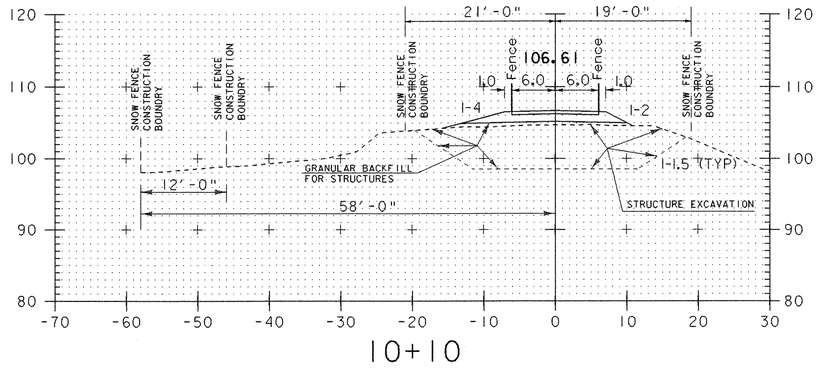
End Width Taper

Resume 12' Wide Path

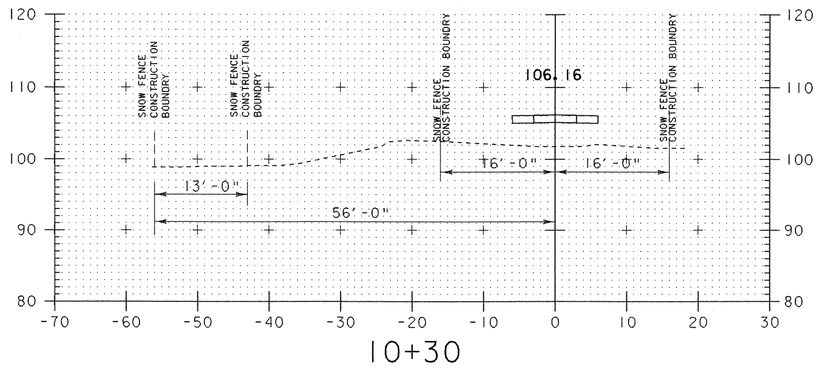
CROSS SECTIONS 9+30 - 9+80

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

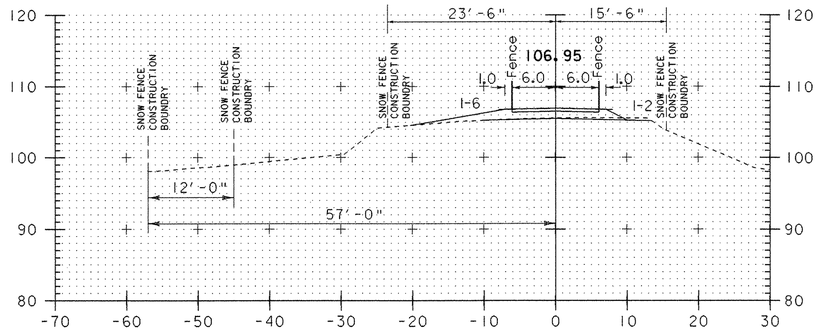
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PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs3.i	SHEET 72 OF 87



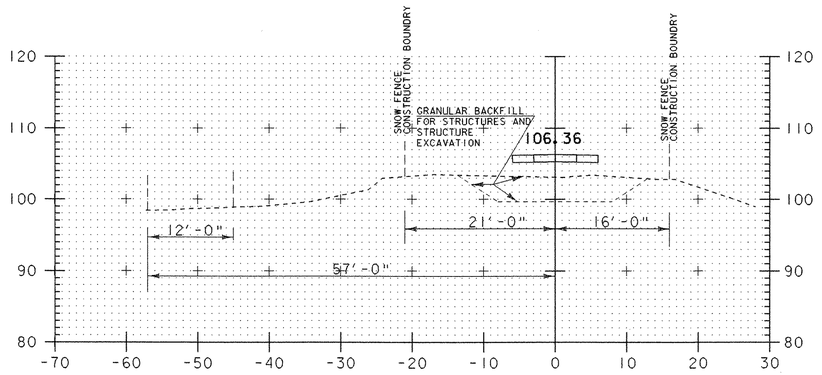
10+10



10+30

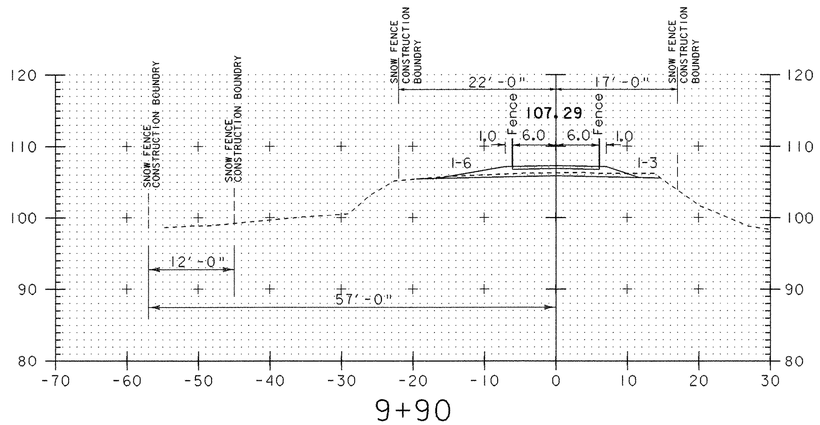


10+00

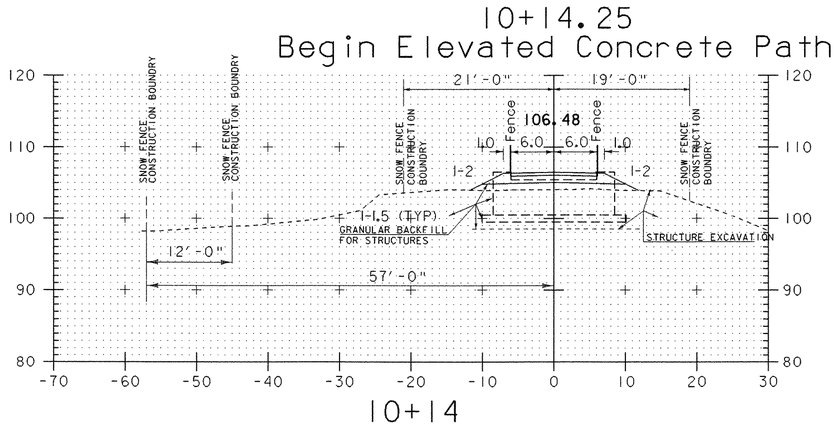


10+20

10+14.25
Begin Elevated Concrete Path



9+90



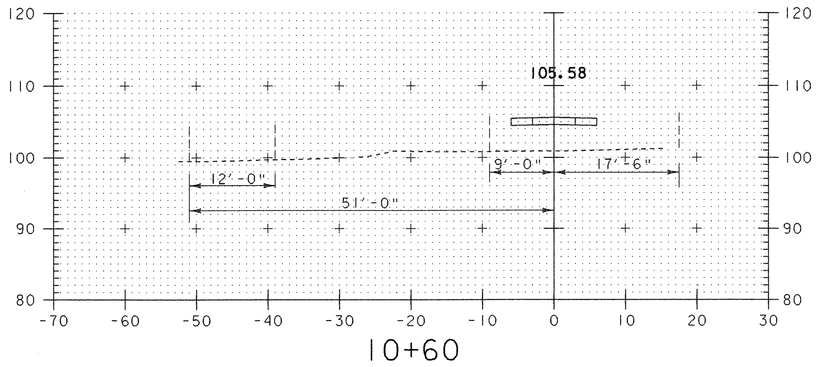
10+14

CROSS SECTIONS 9+90 - 10+30

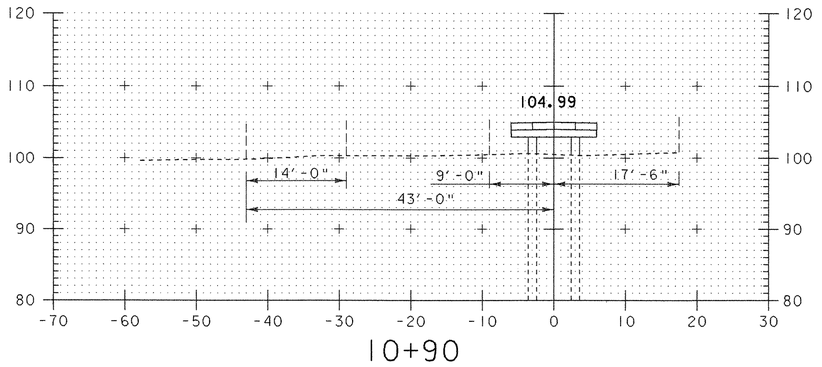
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PROJECT NUMBER:	STP Bike(48)

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PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xs4.i

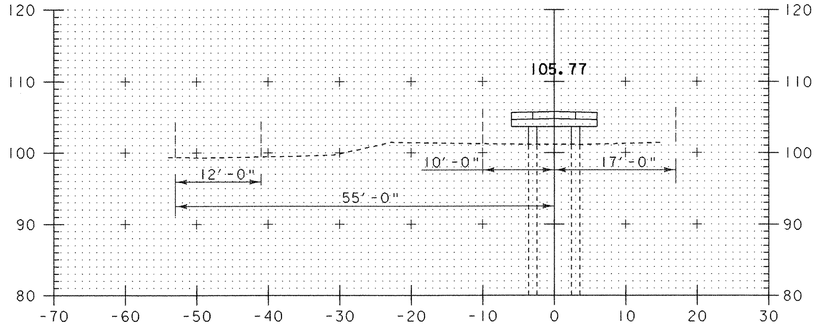
PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 73 OF 87



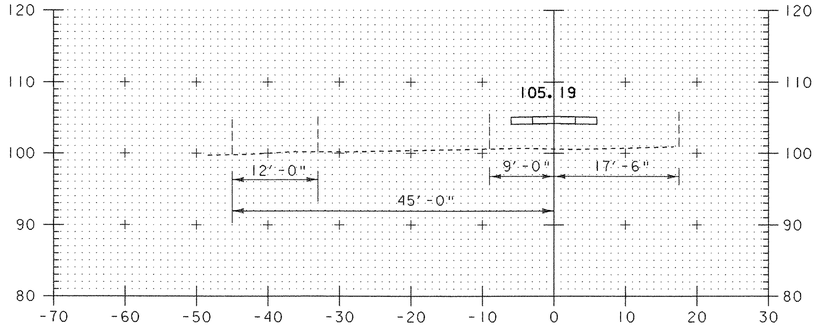
10+60



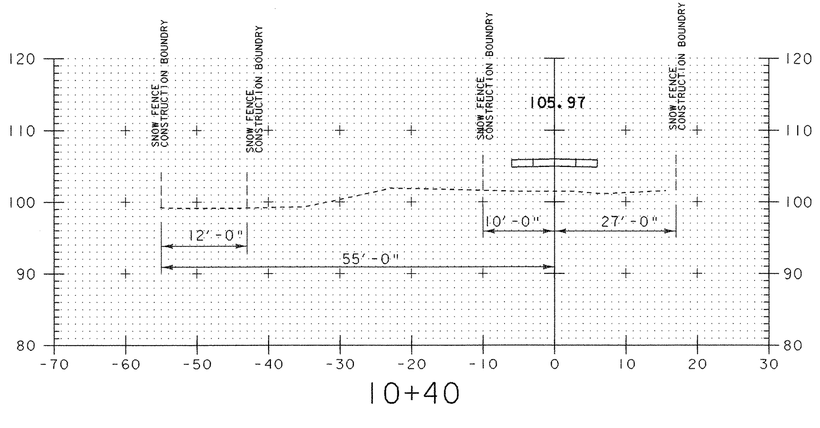
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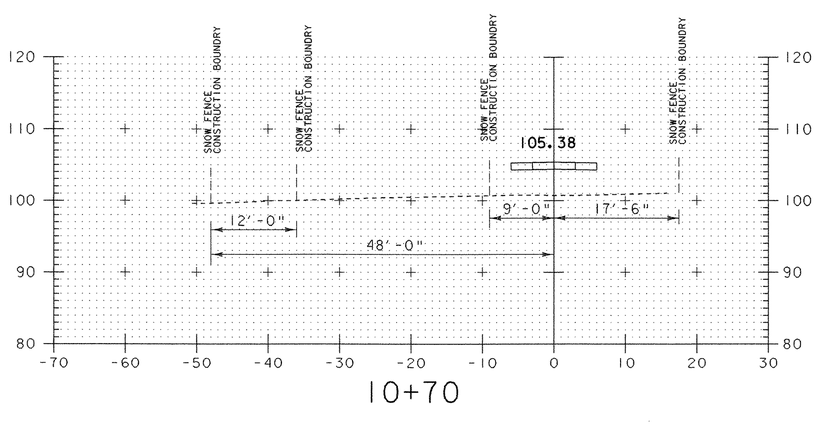
10+50



10+80



10+40



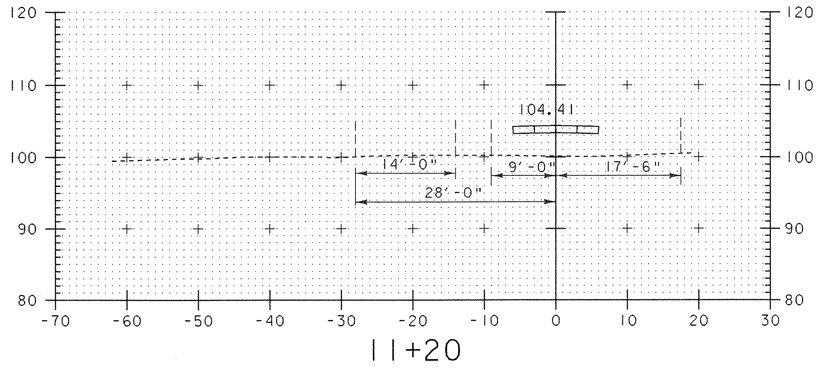
10+70

CROSS SECTIONS 10+40 - 10+90

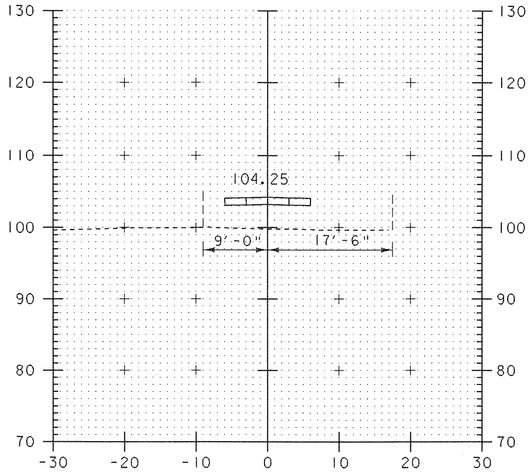
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PROJECT NUMBER:	STP Bike(48)

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PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xs5.i

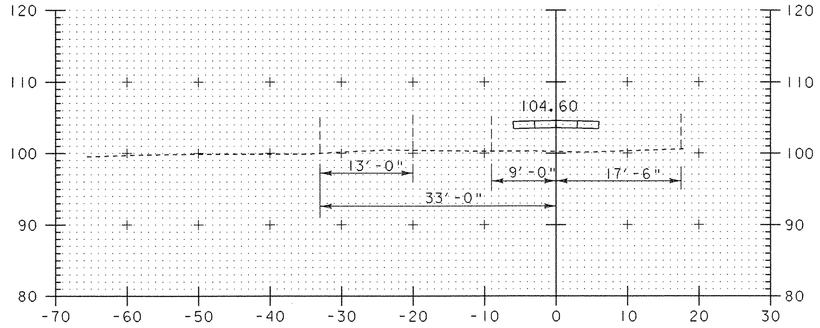
PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:



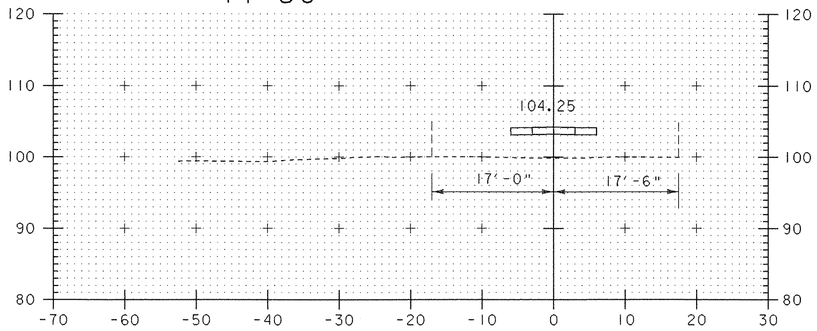
11+20



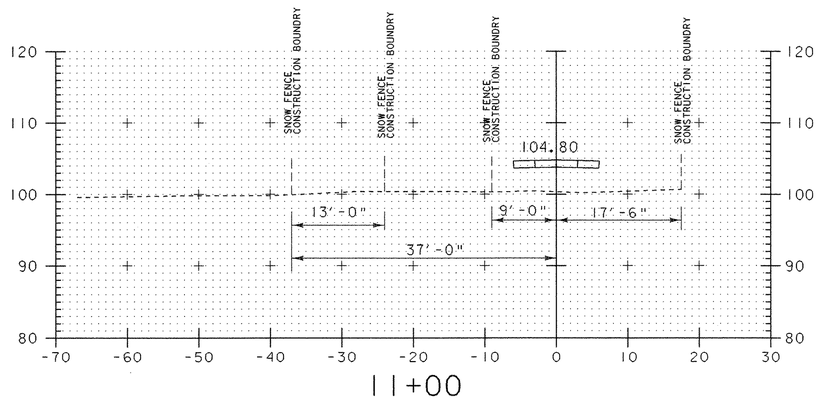
11+50



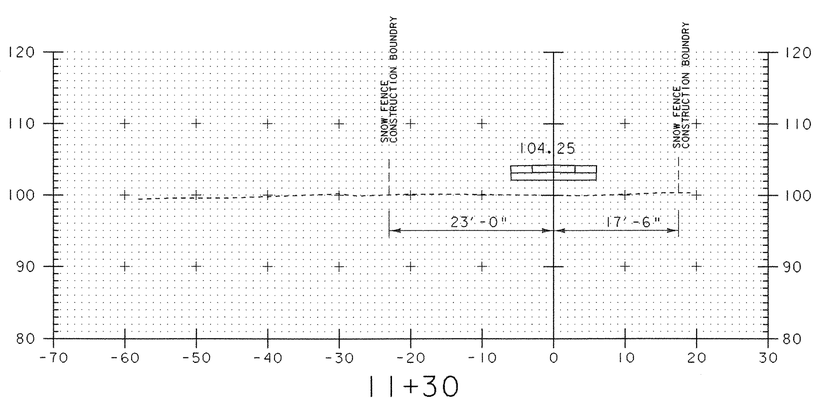
11+10



11+40



11+00



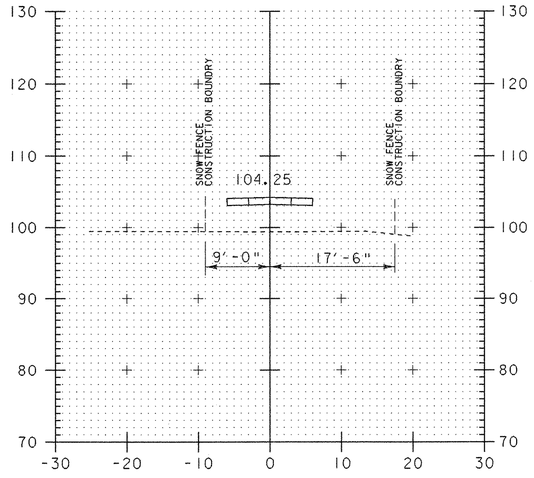
11+30

CROSS SECTIONS 11+00 - 11+50

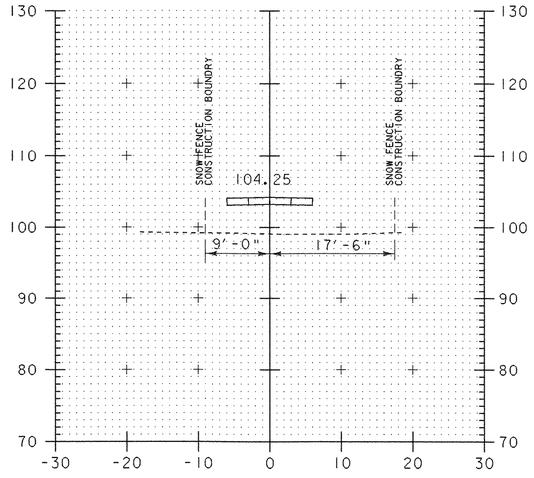
PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

FILE NAME: str5/03f038/sf038xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xs6.i

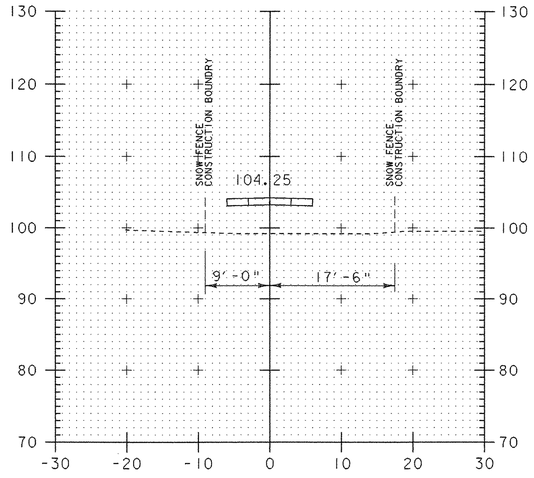
PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 75 OF 87



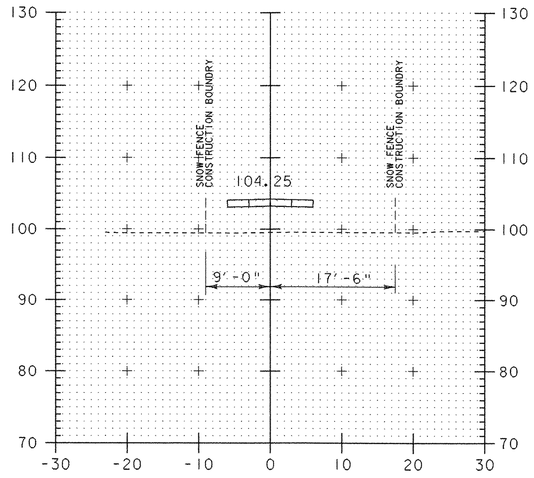
12+00



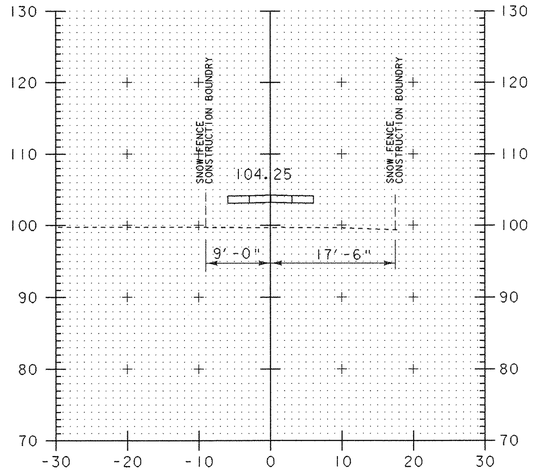
12+50



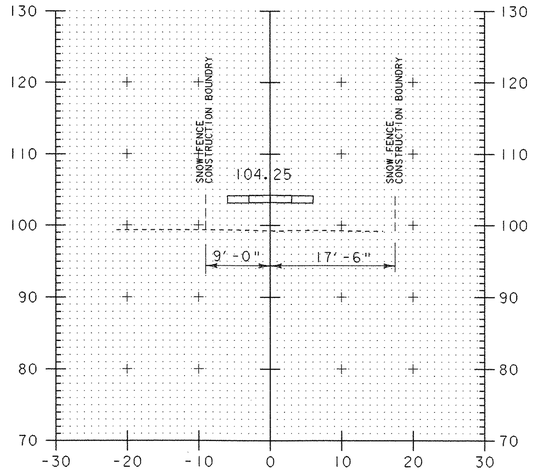
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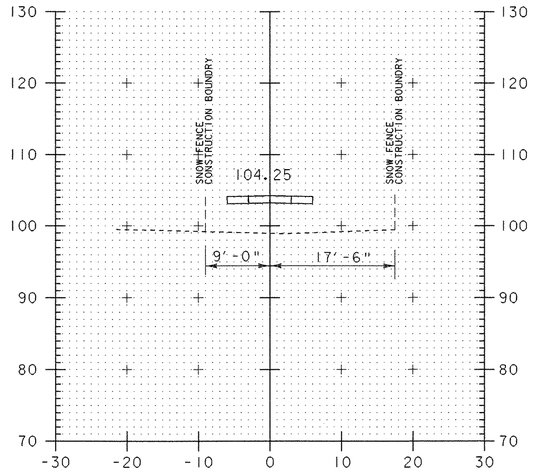
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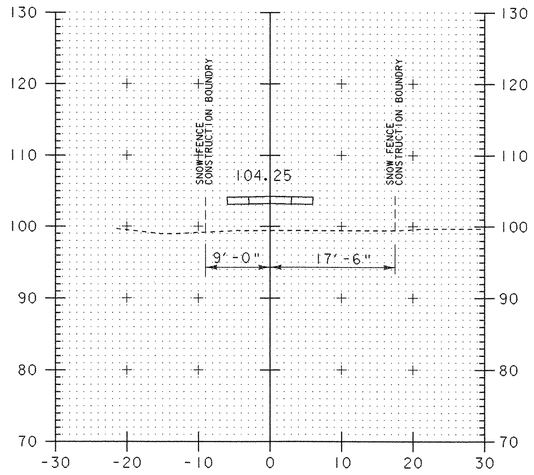
11+75



12+25



12+75

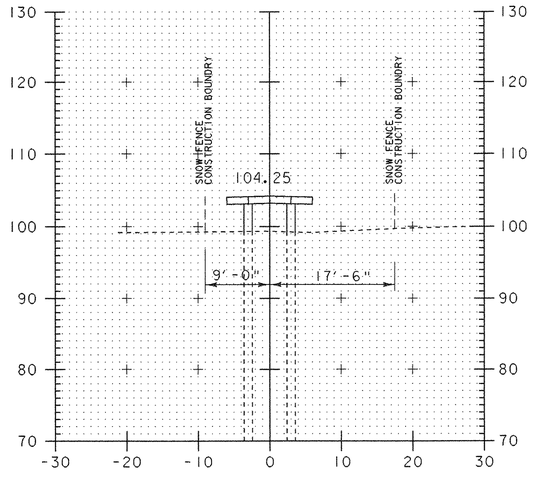


13+25

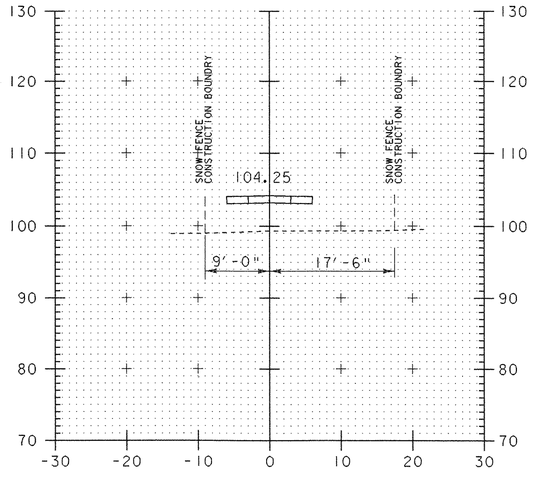
CROSS SECTIONS
11+75 - 13+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

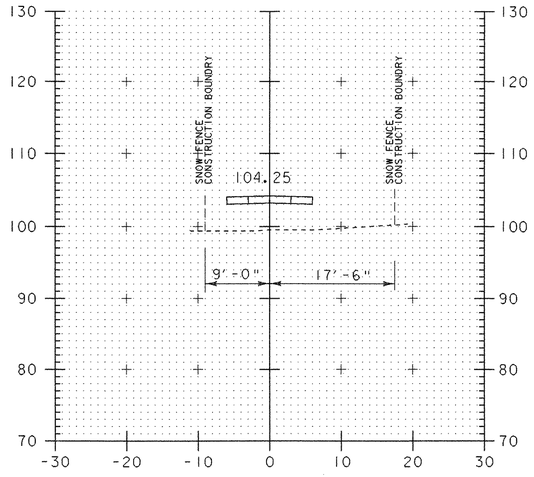
FILE NAME: /str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs7.1	SHEET 76 OF 87



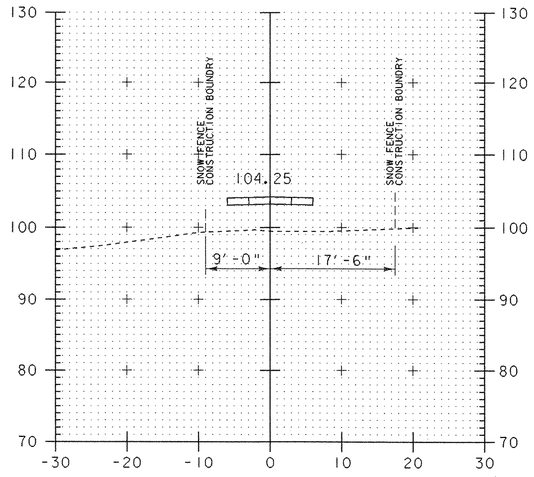
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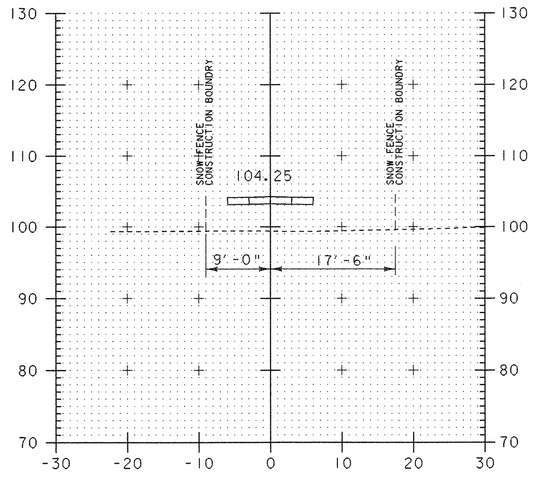
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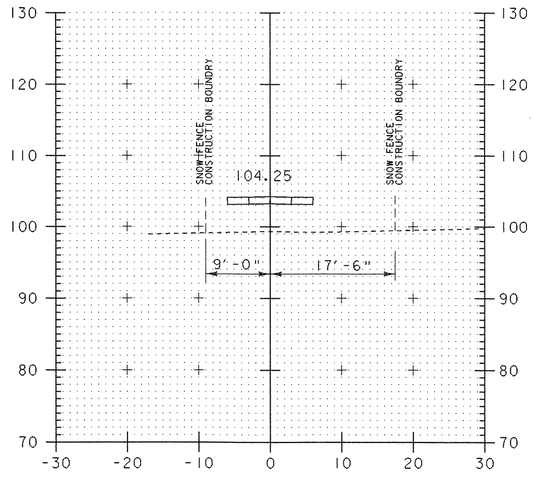
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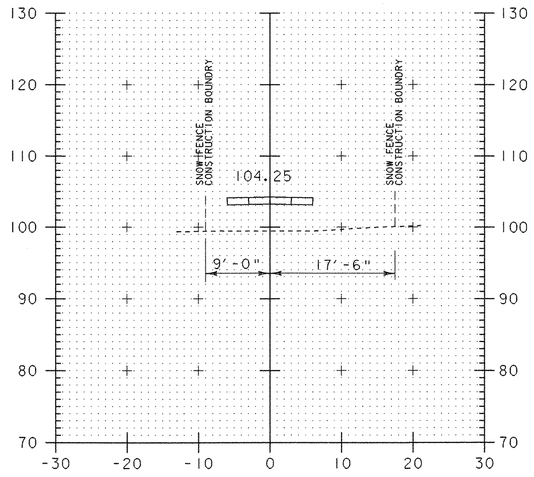
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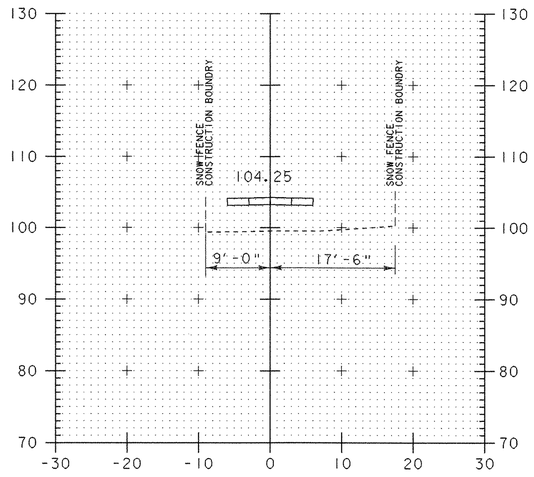
13+75



14+25



14+75

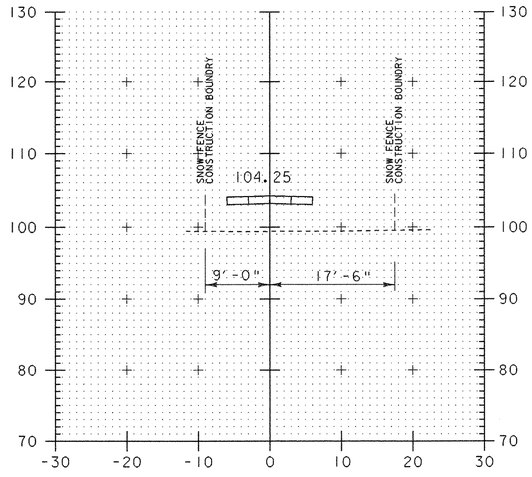


15+25

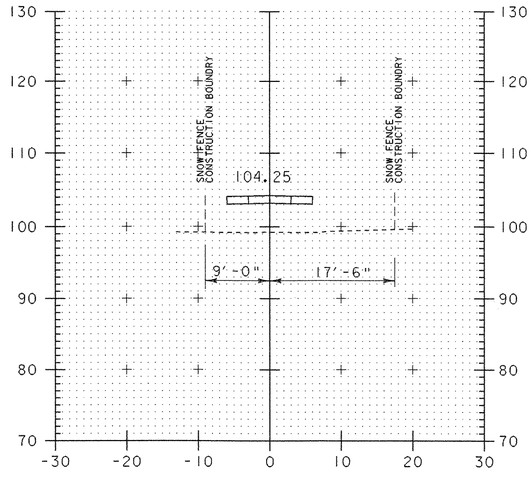
CROSS SECTIONS 13+75 - 15+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

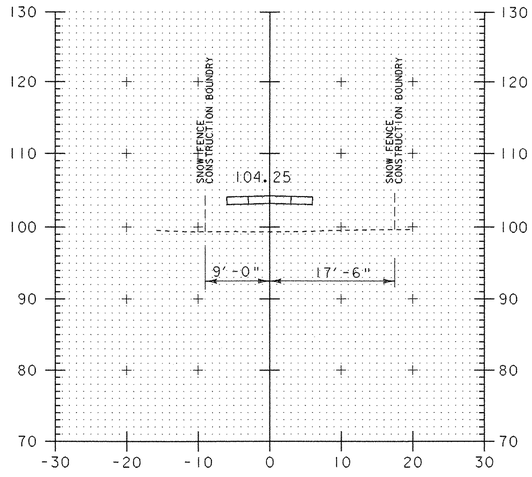
FILE NAME: /str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs8.i	SHEET 77 OF 87



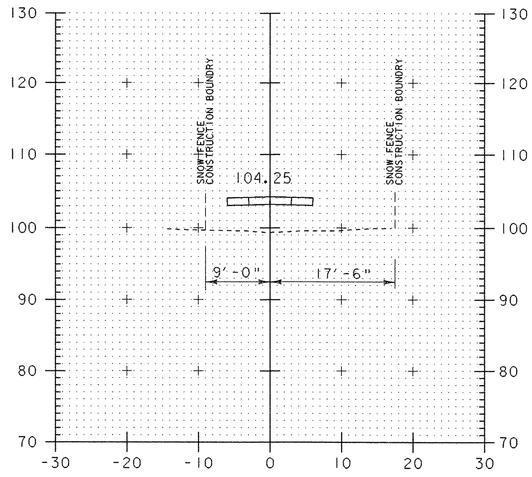
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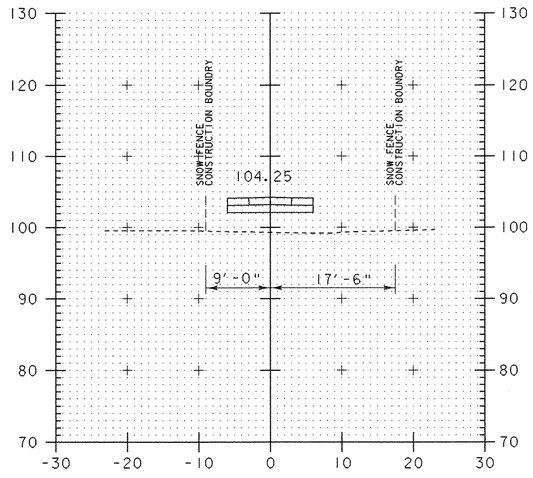
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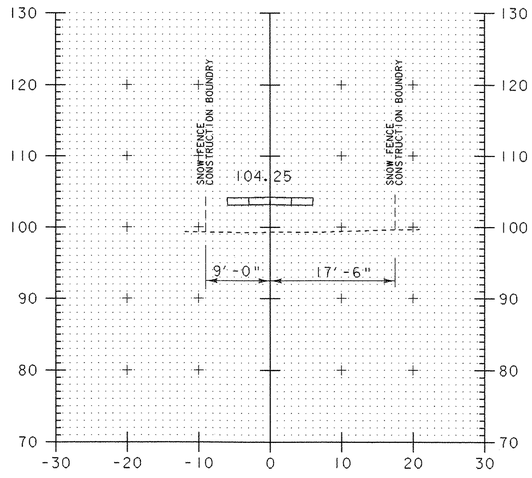
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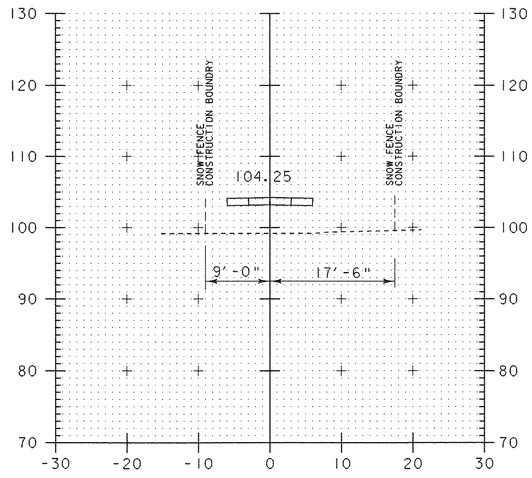
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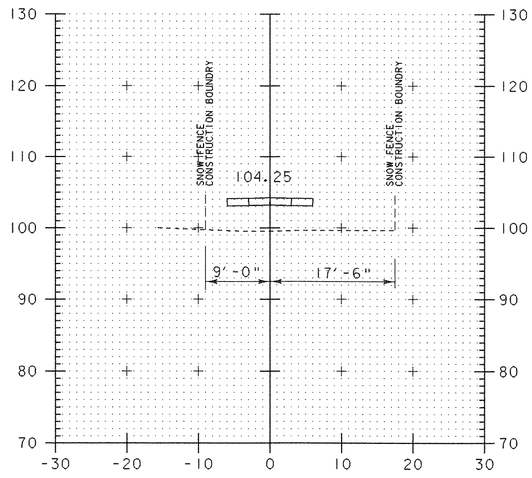
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16+25



16+75

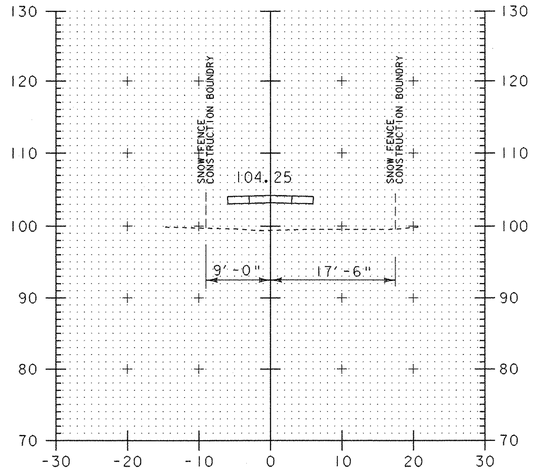


17+25

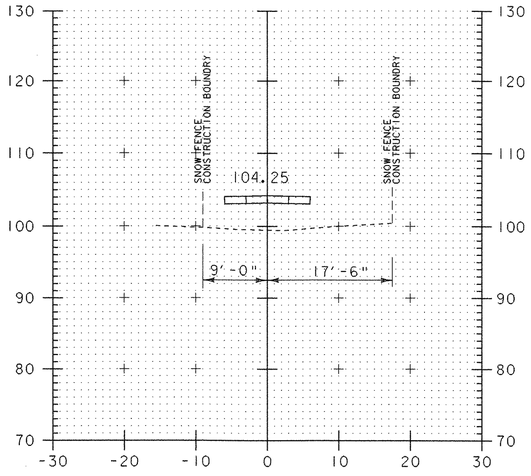
CROSS SECTIONS 15+75 - 17+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP BIke(48)

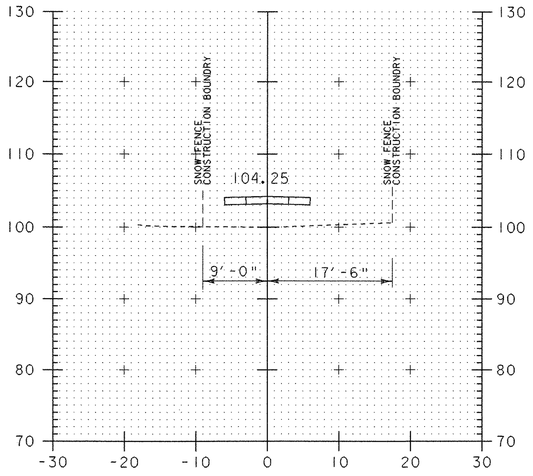
FILE NAME:/str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs9.i	SHEET 78 OF 87



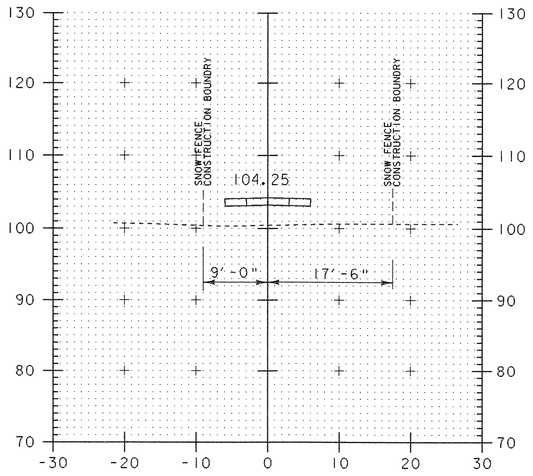
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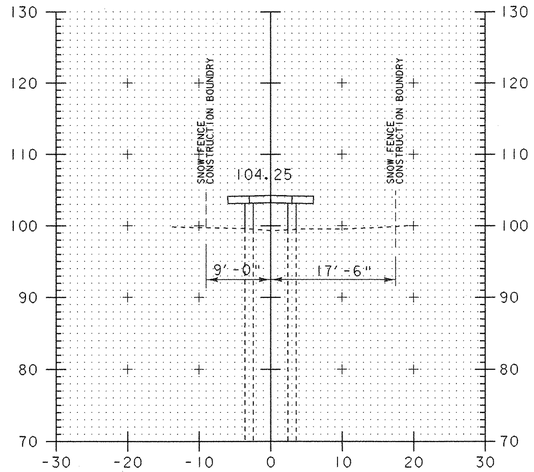
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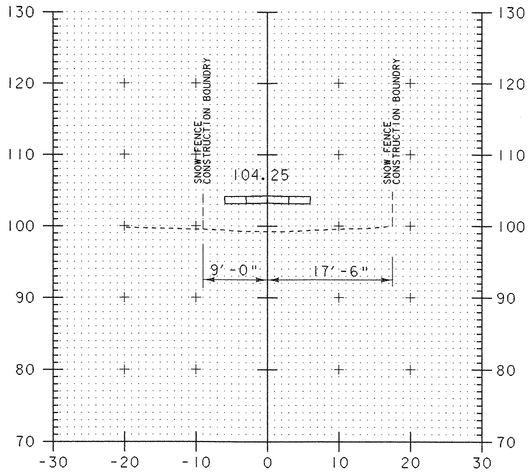
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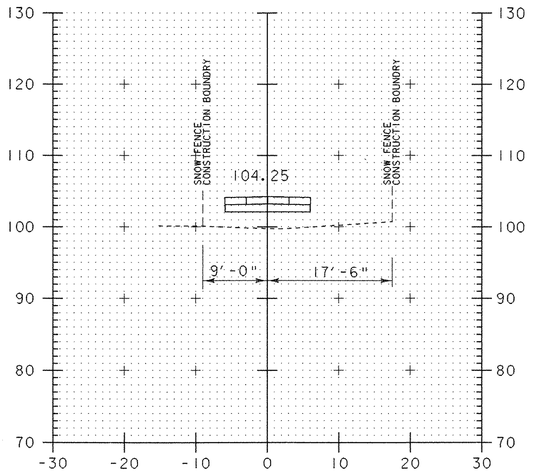
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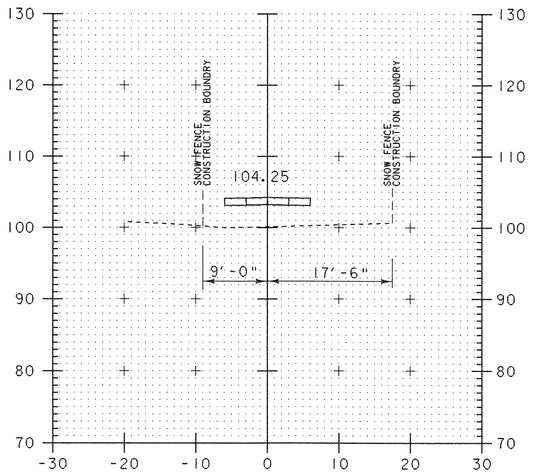
17+75



18+25



18+75

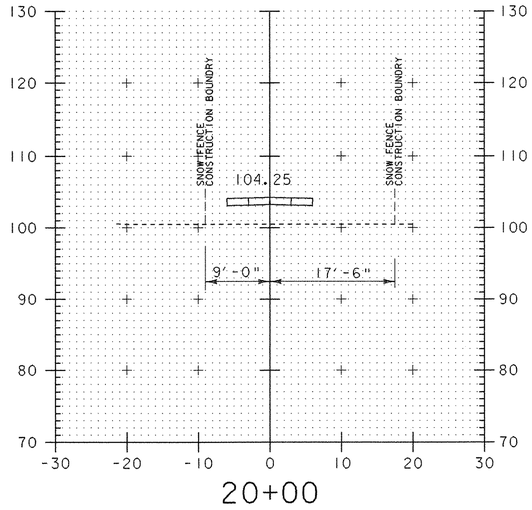


19+25

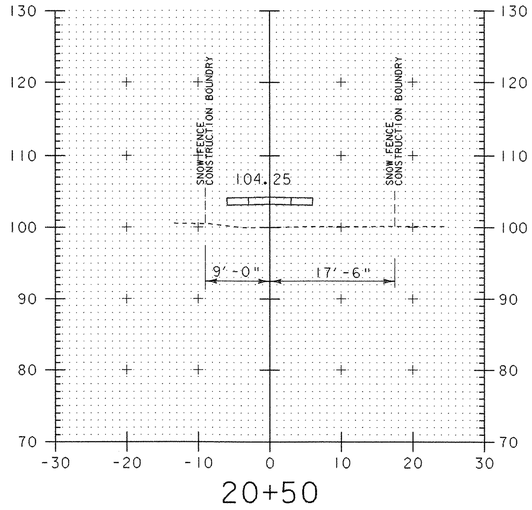
CROSS SECTIONS 17+75 - 19+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

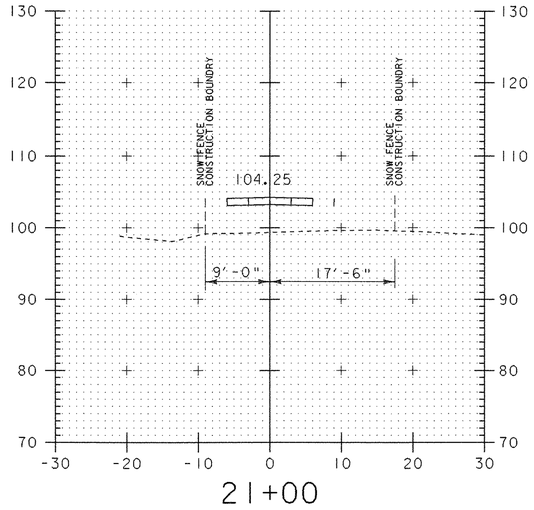
FILE NAME: /str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl0.i	SHEET 79 OF 87



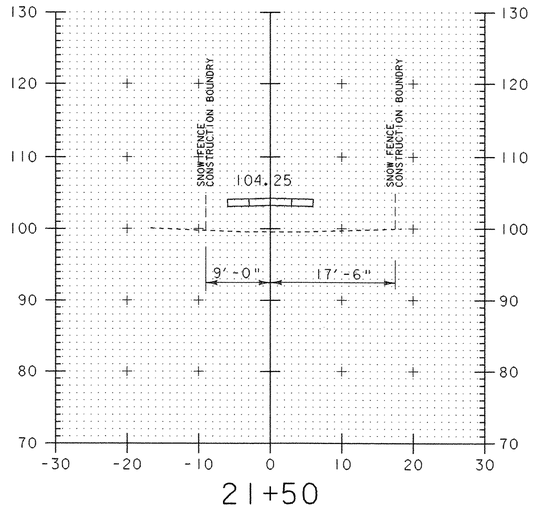
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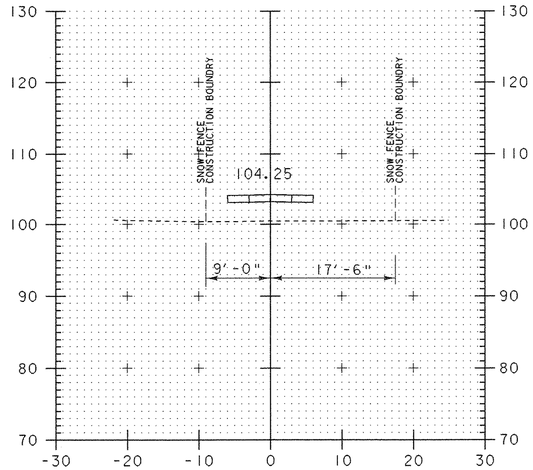
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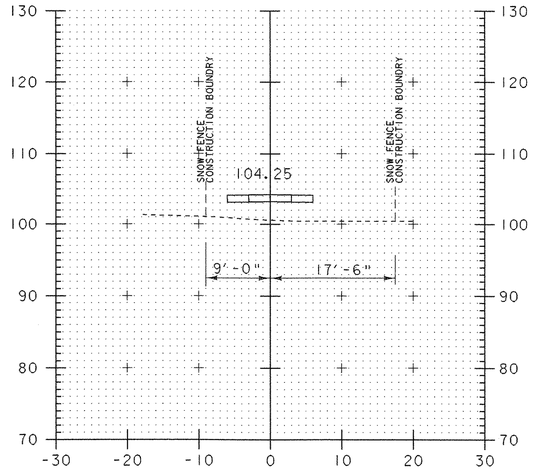
21+00



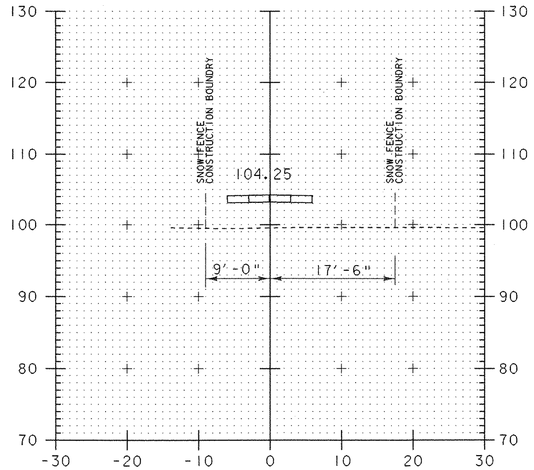
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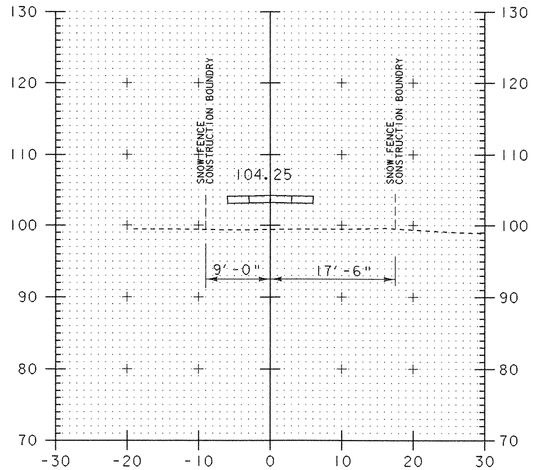
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20+25



20+75

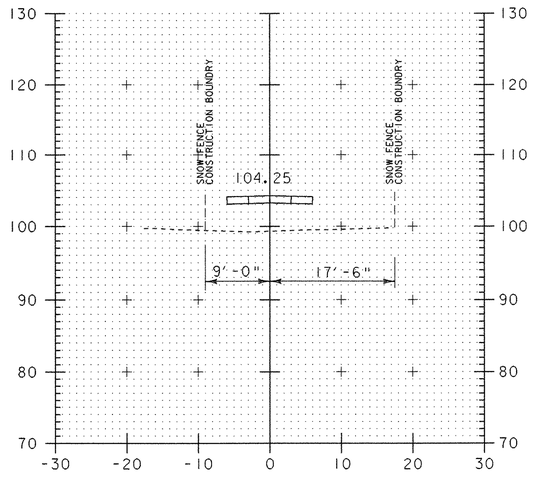


21+25

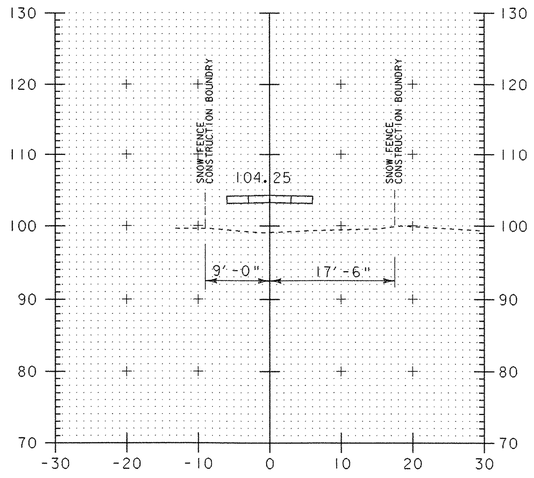
CROSS SECTIONS 19+75 - 21+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

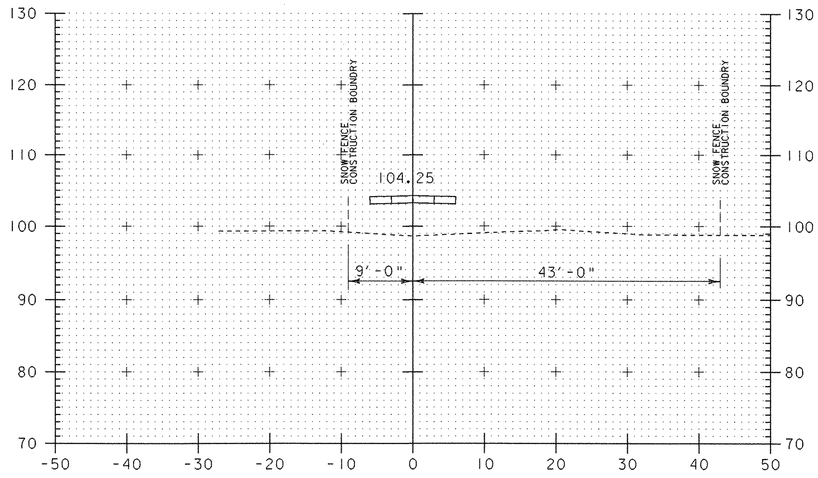
FILE NAME: /str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl1.1	SHEET 80 OF 87



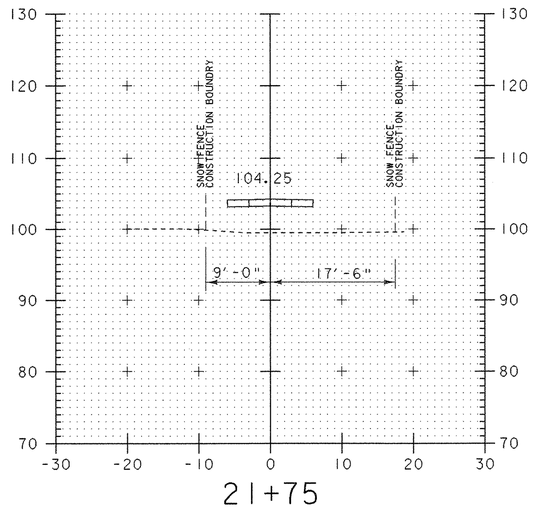
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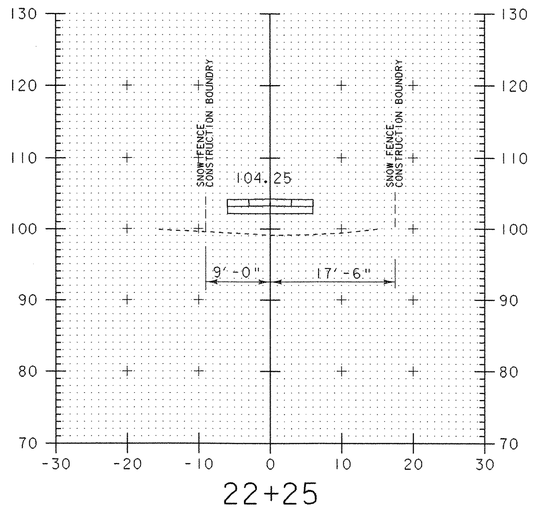
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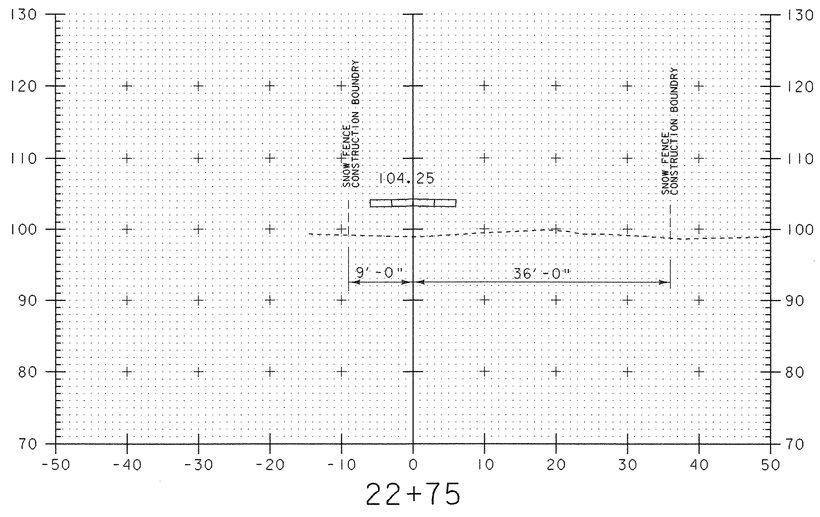
23+00



21+75



22+25



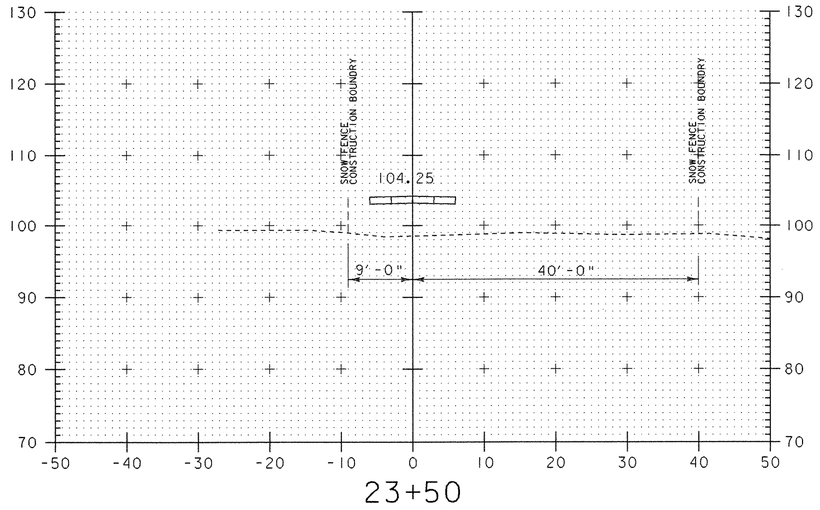
22+75

CROSS SECTIONS 21+75 - 23+00

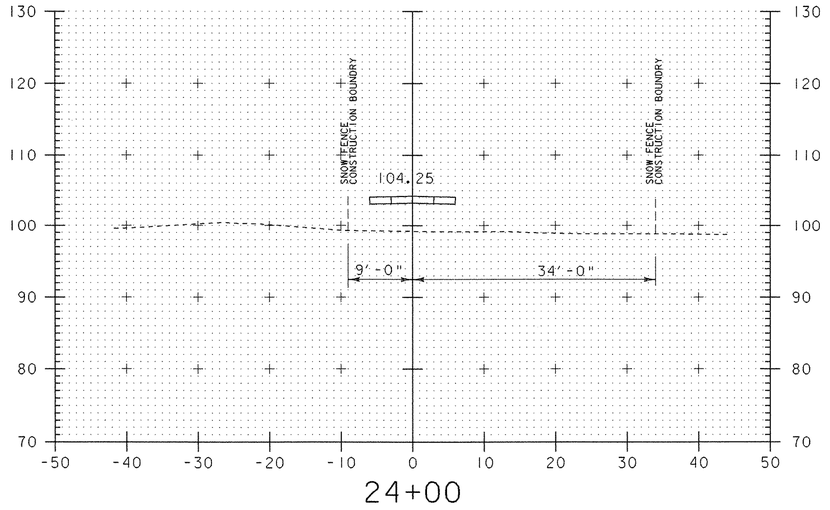
PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xsl2.1

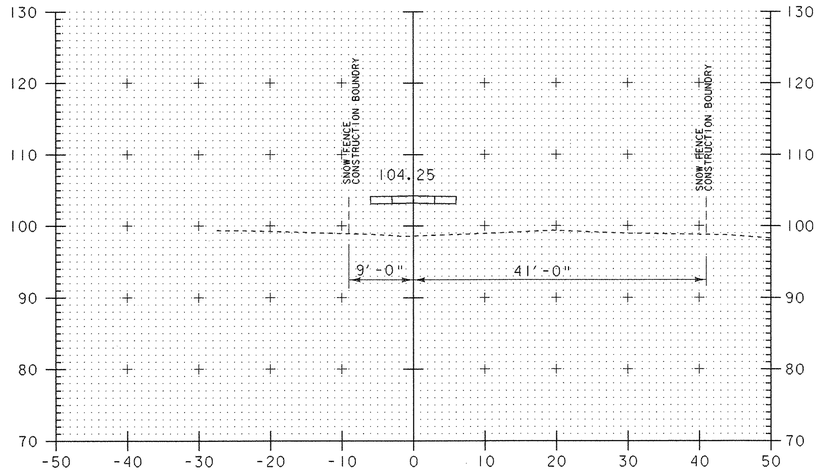
PLOT DATE: 03-SEP-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 81 OF 87



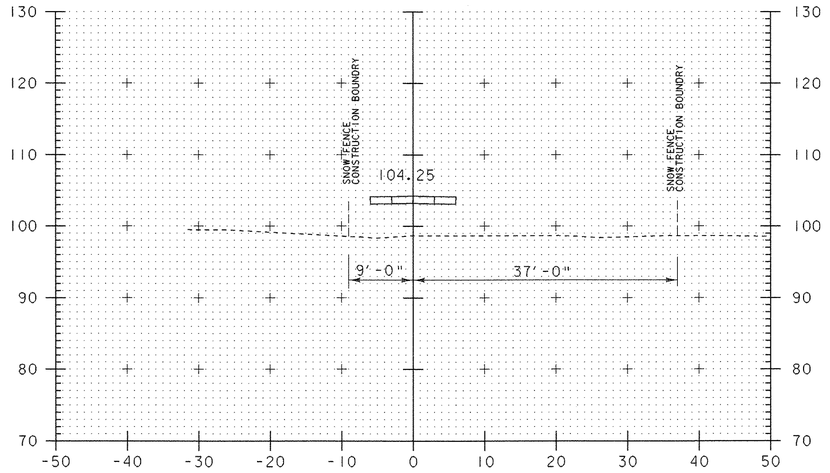
23+50



24+00



23+25

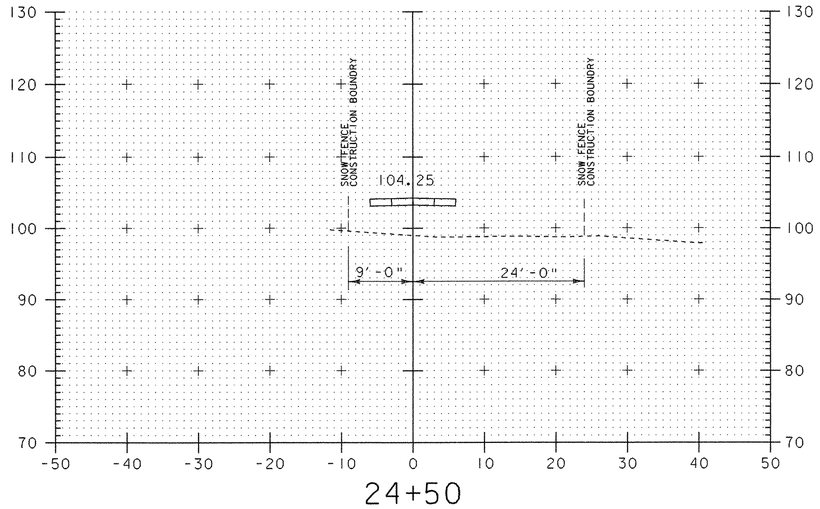


23+75

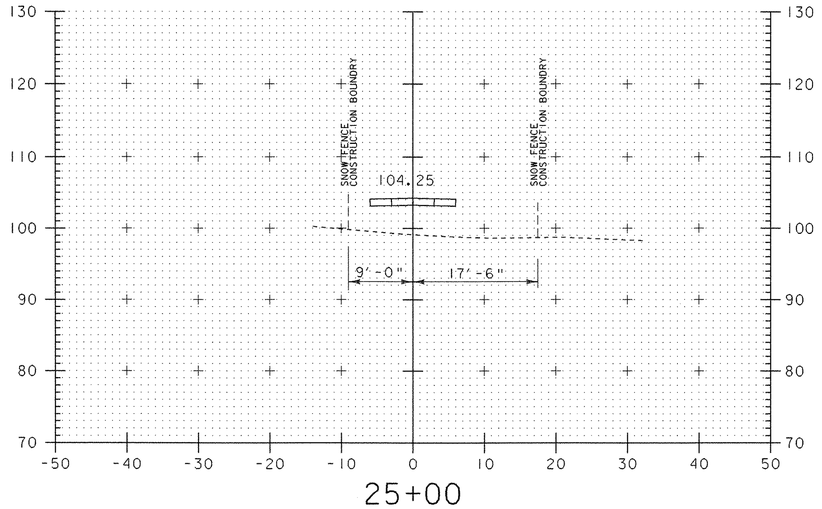
CROSS SECTIONS 23+25 - 24+00

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

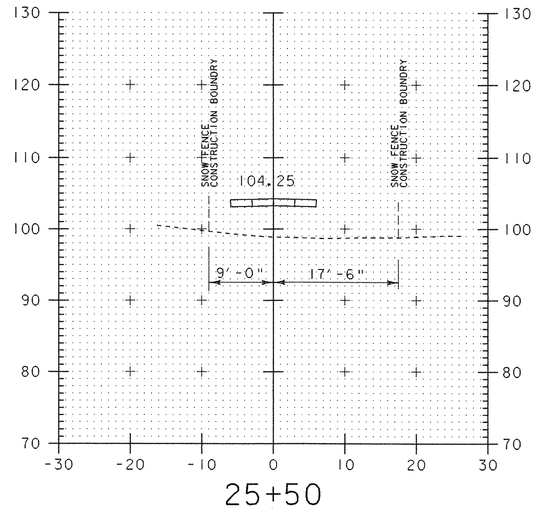
FILE NAME: /str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl3.i	SHEET 82 OF 87



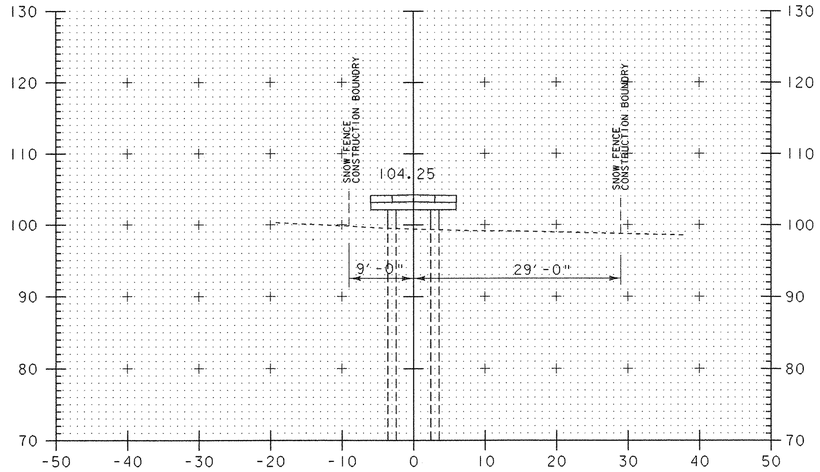
24+50



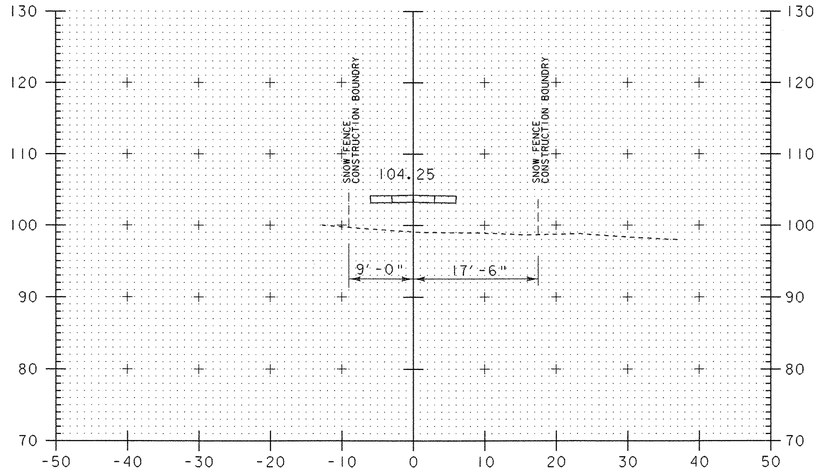
25+00



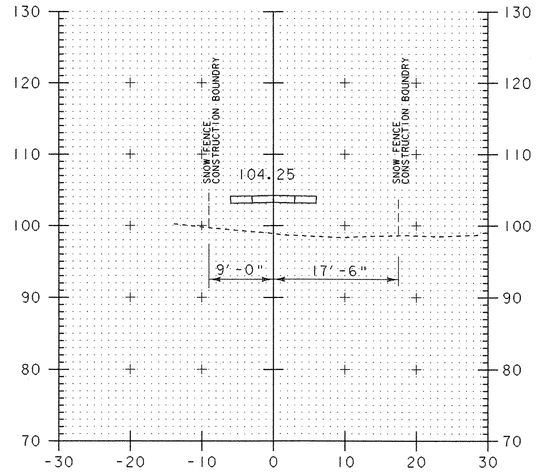
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24+25



24+75

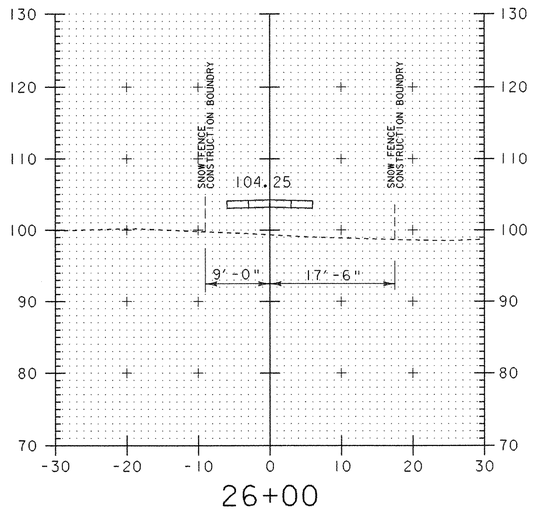


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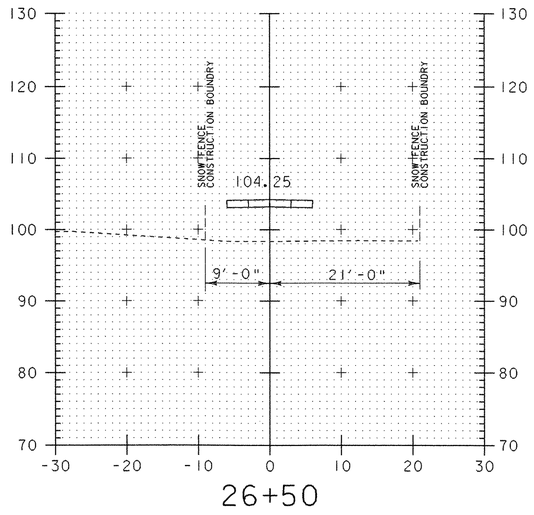
CROSS SECTIONS
24+25 - 25+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

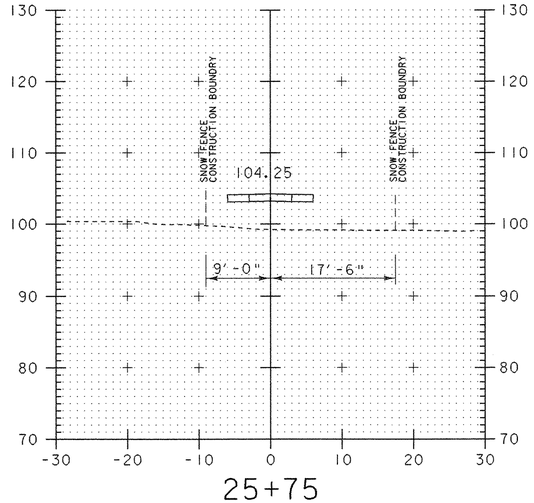
FILE NAME: /str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl4.i	SHEET 83 OF 87



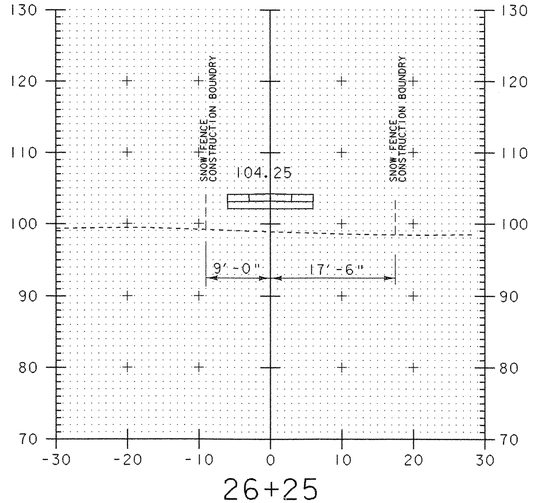
26+00



26+50



25+75



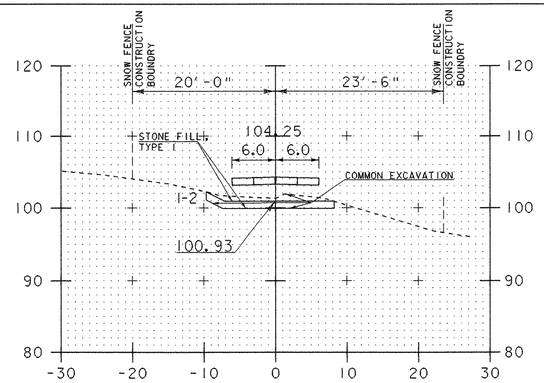
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CROSS SECTIONS
25+75 - 26+50

PROJECT NAME: Colchester
PROJECT NUMBER: STP Bike(48)

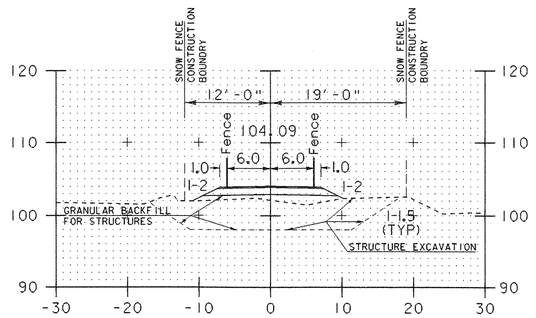
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PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xsl5.i

PLOT DATE: 05-AUG-2003
DRAWN BY: G. Shangraw
CHECKED BY:
SHEET 84 OF 87

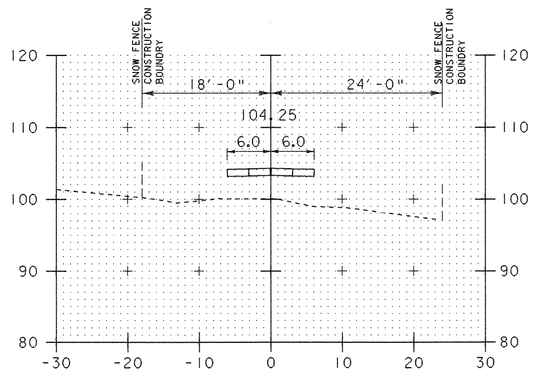


26+80

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



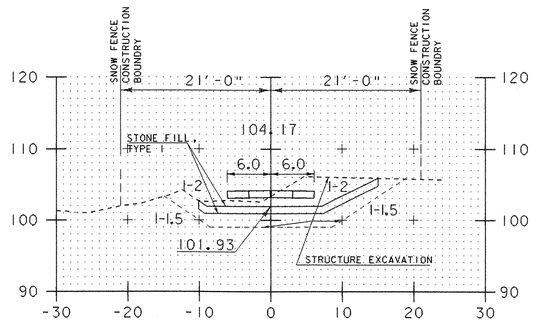
27+10



26+70

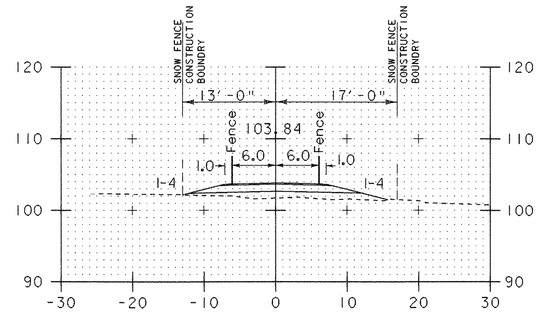
Sta. 27+05 END STONE FILL TYPE I

27+05.52
End Elevated Concrete Path



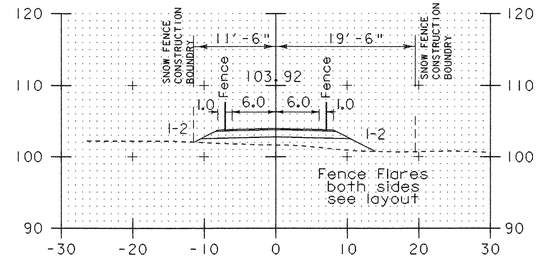
27+00

Sta. 27+00 END COMMON EXCAVATION

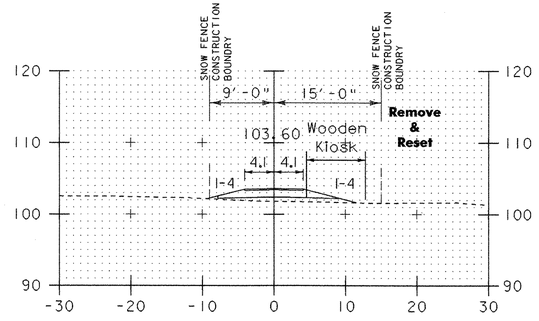


27+40

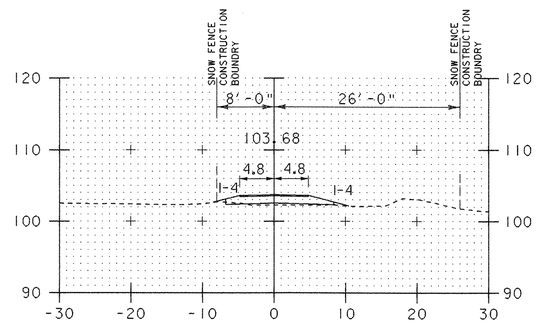
End Fence Lt. & Rt.
Begin Path Width Taper



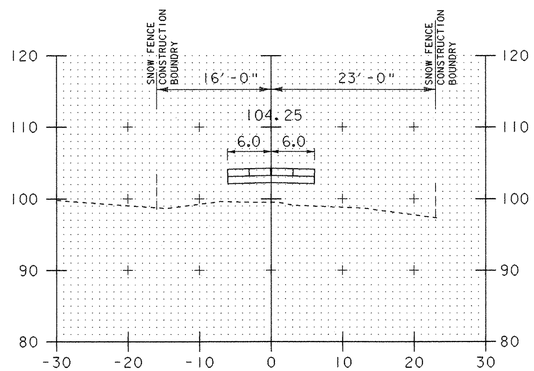
27+30



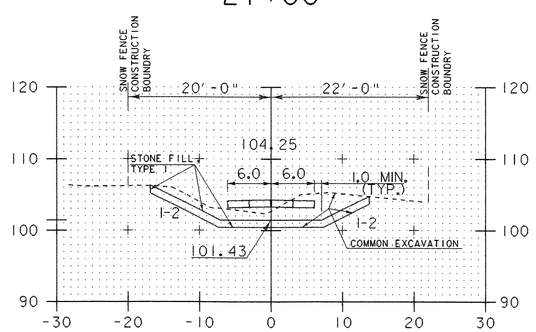
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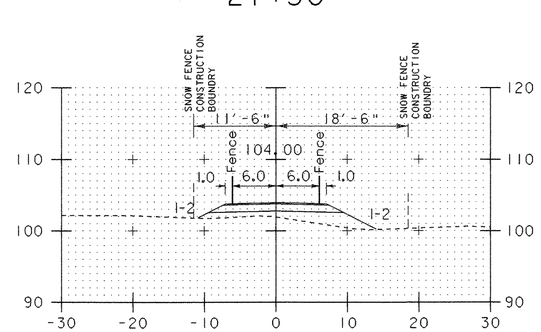
27+60



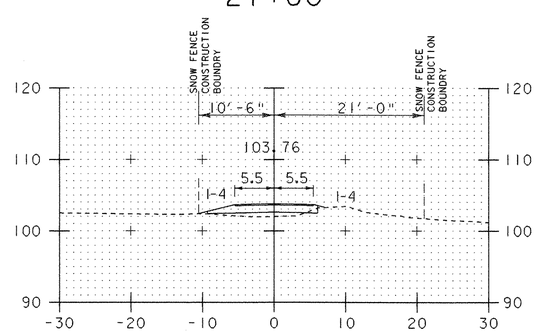
26+66



26+90



27+20

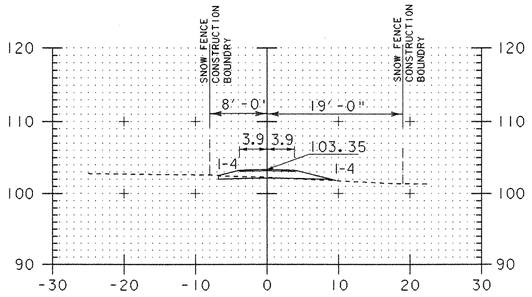


27+50

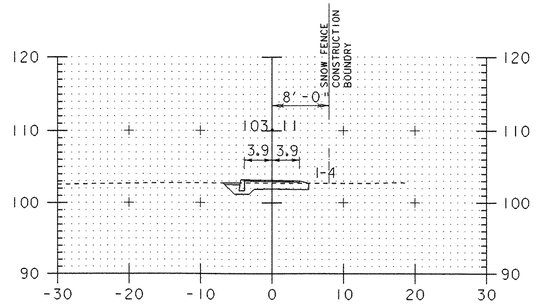
CROSS SECTIONS 26+66 - 27+70

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

FILE NAME: str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl6.i	SHEET 85 OF 87

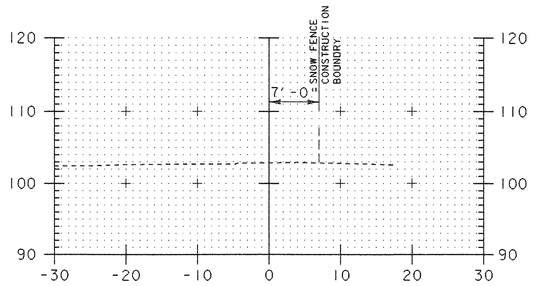


28+00



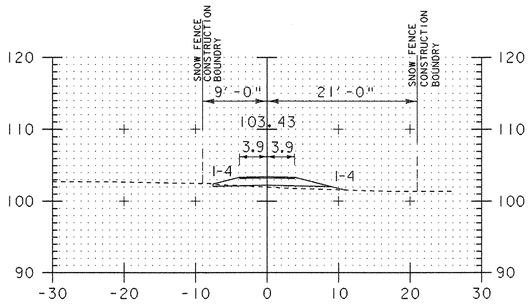
28+30

28+62.00
End Project

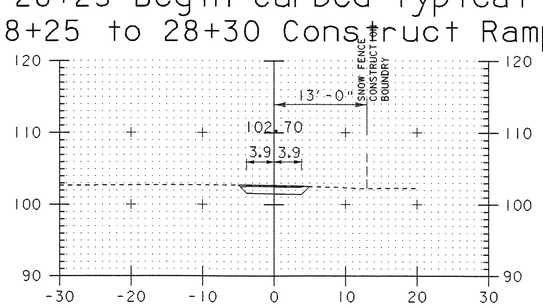


28+60
Match Existing Path

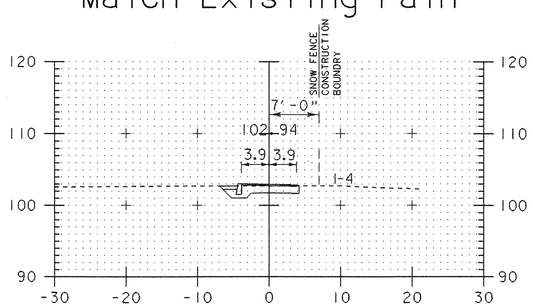
28+25 Begin Curbed Typical
28+25 to 28+30 Construct Ramp



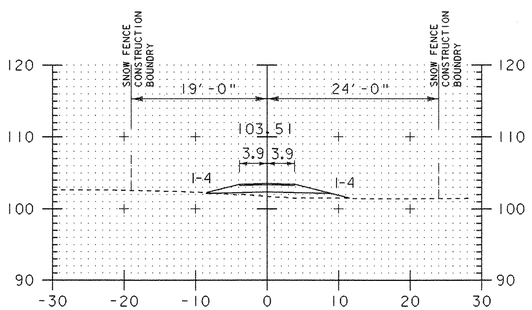
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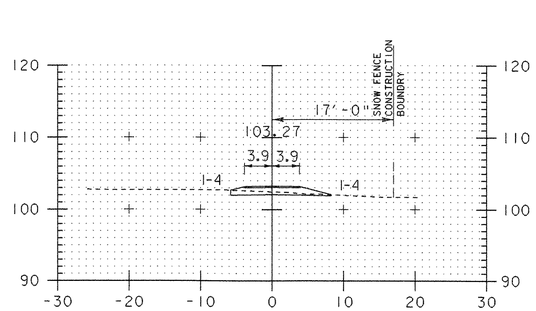
28+20



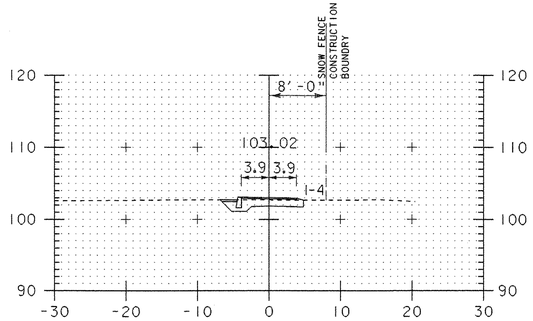
28+50



27+80
End Path Width Taper



28+10
28+10 to 28+15
Construct Ramp



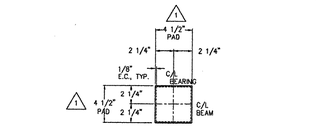
28+40

CROSS SECTIONS
27+80 - 28+60

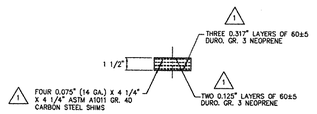
PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)

FILE NAME: /str5/03f038/sf038xsl.dgn
PROJECT LEADER: C. Keller
DESIGNED BY: G. Shangraw
sf038xsl7.i

PLOT DATE: 05-AUG-2003
DRAWN BY:
CHECKED BY:
SHEET 86 OF 87



PLAN VIEW



ELEVATION

MK. 01, 592 REQ'D., ITEM 531.10
8 EACH AT ABUTS. 1 & 2
16 EACH AT PIERS 1 - 36

BR'G. MK.	01	
SHAPE FACTOR	3.35	1
COMP. AREA in. 2	18.06	1
SHEAR AREA in 2	20.25	1
EFFECTIVE RUBBER in.	1.20	
LENGTH TO HEIGHT RATIO	3.75	1
R (DL + SDL) KIPS	5.7	
R (LL) KIPS	2.9	
MAX. ALLOWABLE STRESS PSI	1000	
DESIGN ROTATION RAD.	0.014	

NOTES:

1. BEARING PADS TO BE MANUFACTURED IN ACCORDANCE WITH VT. AGENCY OF TRANSPORTATION STANDARD SPECIFICATION SECTION 731 AND THE PROJECT PLANS (AASHTO DIVISION II SECTION 18.2 AND AASHTO MATERIALS SPECIFICATION M251).
2. NEOPRENE IS 60 ± 5 DURO., GRADE 3. INTERNAL SHIMS ARE 14 GA. ASTM A1011 GR. 40.
3. THE BEARINGS WERE DESIGNED USING METHOD A, AASHTO SECTION 14.
4. TOLERANCES:

DESIGN THICKNESS	-0, +1/4"
HORIZONTAL DIM.	-0, +1/4"
THICKNESS OF INDIVIDUAL LAYERS AT ANY POINT WITHIN THE BEARINGS	±20% OF DESIGN VALUE BUT NO MORE THAN ±1/8"
PARALLELISM WITH OPPOSITE FACE	
TOP & BOTTOM	±0.005 RADIANS
SIDES	±0.02 RADIANS
SIZE AND POSITION OF EXPOSED CONNECTION MEMBERS, HOLES, SLOTS OR INSERTS	±1/8"
EDGE COVER	-0, +1/8"
THICKNESS OF TOP & BTM LAYER	-0, THE SMALLER OF 1/16" AND 20% OF THE NOMINAL COVER LAYER THICKNESS

5. LEVEL 1 TESTING REQUIRED BY S.E.P.
6. ONLY ITEMS SHOWN ON THIS DRAWING ARE TO BE PROVIDED BY SEISMIC ENERGY PRODUCTS, L.P.

RECEIVED
NOV 06 2003

CK'D BY 11 ZM CK'D BY _____

RESUBMIT _____ APPROVED ✓

BY _____ DATE 11/6/03

REV.	DESCRIPTION	DATE
1	REVISED PER VAOT	11/3/03

FED. AID. PROJECT NO.

PROJECT NO. STP BIKE (48) | COUNTY CHITTENDEN

CONTRACTOR: KUBRICKY CONSTRUCTION CORP.

Seismic Energy Products, L.P.
STRUCTURAL BEARINGS FOR BRIDGES & BUILDINGS
ATHENS, TEXAS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STRUCTURAL BEARING DETAILS FOR:

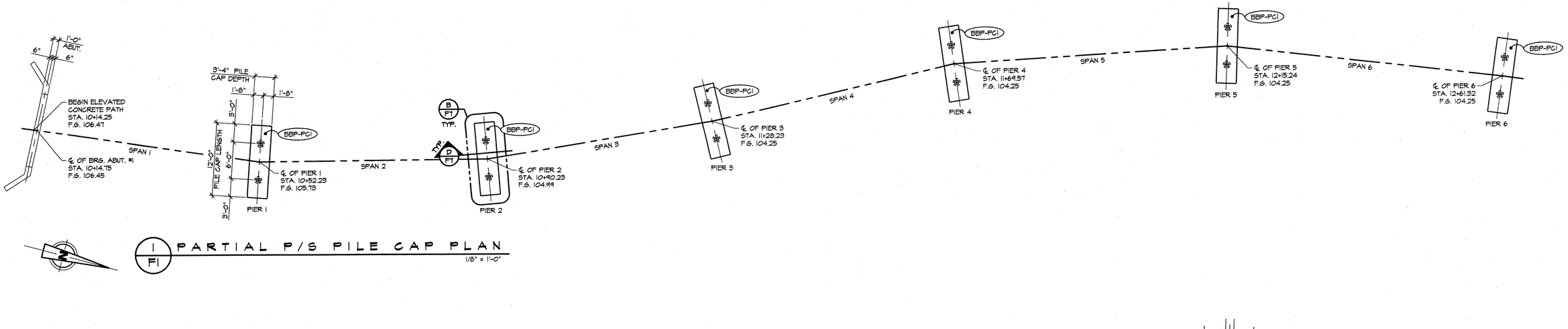
STP BIKE (48), TOWN OF COLCHESTER, VT.

088

CAD FILE NO. 19415VT

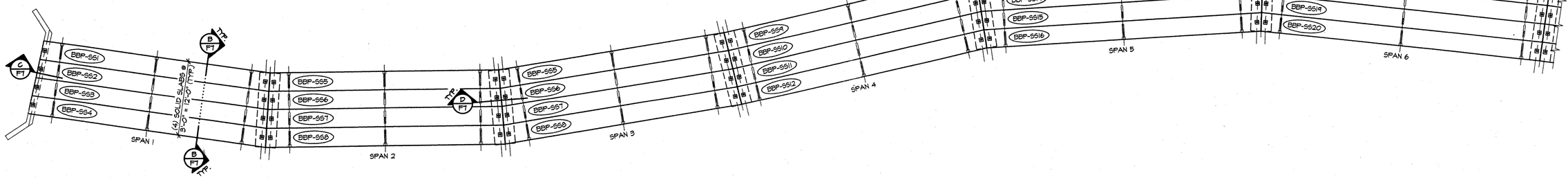
CUSTOMER: KUBRICKY CONSTRUCTION CORP.
237 BAY STREET
GLENS FALLS, N.Y. 12801

DRN. T.A.	10/02/03	P.O. NO.	362	S.O. NO.	19415
CHKD. C.R.	10/02/03				
Q.A. REVWD.		REV. 1	DWG. NO.	0903197	SHT. 1 OF 1



1/F1 PARTIAL P/S PILE CAP PLAN

1/8" = 1'-0"



2/F1 PARTIAL P/S SOLID SLAB PLAN

1/8" = 1'-0"

GENERAL NOTES

1. MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 6,000 PSI FOR BOTH PILE CAPS & SOLID SLABS.
2. MIN CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 3,000 PSI FOR PILE CAPS & 4,000 PSI FOR SOLID SLABS. ⚠
3. REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL BE BLACK STEEL.
4. PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60"Φ x 270 KSI 7 WIRE LOW RELAXATION STRANDS. ⚠
5. PRESTRESSING STRANDS SHALL EACH BE PULLED TO HAVE A NET TENSION OF 44.0K AFTER ACCOUNTING FOR CHUCK SLIPPAGE. TENSION SHALL BE VERIFIED BY MEASURING STRAND ELONGATION. SEE EXAMPLE ELONGATION CALCULATION AND TENSIONING PROCEDURE, THIS SHEET.
6. ENDS OF PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH END OF SOLID SLABS AND EPOXY PAINTED.
7. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
8. THE TOPS OF THE PILE CAPS & SOLID SLABS SHALL RECEIVE A SMOOTH FLOAT FINISH OR STIFF BROOM FINISH (AS NOTED).
9. SHEAR KEY SURFACES SHALL BE BLASTED CLEAN.
10. SLABS SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. SLABS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS WITHIN 2'-0" OF THE SLAB ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS INC.
11. MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. P510.02 AND P510.05 RESPECTIVELY.

    DESIGN MIX: J.P.C. BRIDGE MIX #450
    752 LBS. TYPE III CEMENT - GLENS FALLS CEMENT
    1215 LBS. FINE AGGREGATE
    1650 LBS. COARSE AGGREGATE
    28 GAL. WATER - 233 LBS.
    7% (± 2%) AIR CONTENT (8.5 OZ. DAREX II) ADJUST AS REQUIRED
    6.0 OZ. ADVA PER 100 LBS. CEMENT, MAX. 7" SLUMP
    3 OZ. DARACEM PER 100 LBS. CEMENT
    5.2 OZ. DCI
12. QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS INC. IS A PCI CERTIFIED PLANT.
13. CURING METHOD: AS SOON AS THE TOP OF THE SLAB IS FINISHED, A COVER OF POLY AND A LAYER OF HOMOSOTE (OR BLUE BOARD) WILL BE PLACED OVER THE SLAB. THE DESIRED CURING TEMPERATURE RANGE SHALL NOT DROP BELOW 70 DEGREES F. THE TEMPERATURE SHALL BE RECORDED BY AUTOMATIC SENSOR INSTRUMENTS ON GRAPH CHARTS, SPACED NOT MORE THAN 100' APART AND WILL CONTINUE UNTIL RELEASE STRENGTH IS ACHIEVED (NATURAL CURE WITH NO EXTERNAL HEAT APPLIED). EACH CHART SHALL BE MARKED.
14. TRANSVERSE POST-TENSIONING SEQUENCE:
    A. ERECT SOLID SLABS.
    B. POST-TENSION TENDONS TO 32,000 LBS.
    C. GROUT SHEAR KEYS.

EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING

(NOT TO BE USED FOR CONSTRUCTION)

SIZE & GRADE: 0.60"Φ 270 KSI

AREA: 0.217 IN^2

TENSION: 44,000 LB EACH STRAND

GRIP TO GRIP: 192'-4 3/4" = 192.813'

Es = 28,600,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

EXAMPLE:

$$\Delta = \frac{PL}{AE} = \frac{(44{,}000 - 3{,}000) \times 192.813 \times 12}{0.217 \times 28{,}600{,}000} = 15.29"$$

TOLERANCES: ± 5%

THEREFORE
- UPPER LIMIT = 1.05 x 15.29" = 16.05" = 16 1/16"
- LOWER LIMIT = 0.95 x 15.29" = 14.53" = 14 1/2"

EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE.

$$\Delta P = \frac{0.5 \times 41{,}000}{15.29} = 1{,}341 \text{ LB}$$

TOTAL TENSIONING FORCE = 44,000 + 1,341 = 45,341 LB

STRAND TENSIONING PROCEDURE:

1. PULL EACH STRAND INITIALLY TO 3,000* LB AND MARK STRAND.
2. THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,341* LB AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 14 1/2" & 16 1/16".

*NOTE : FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY MV OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

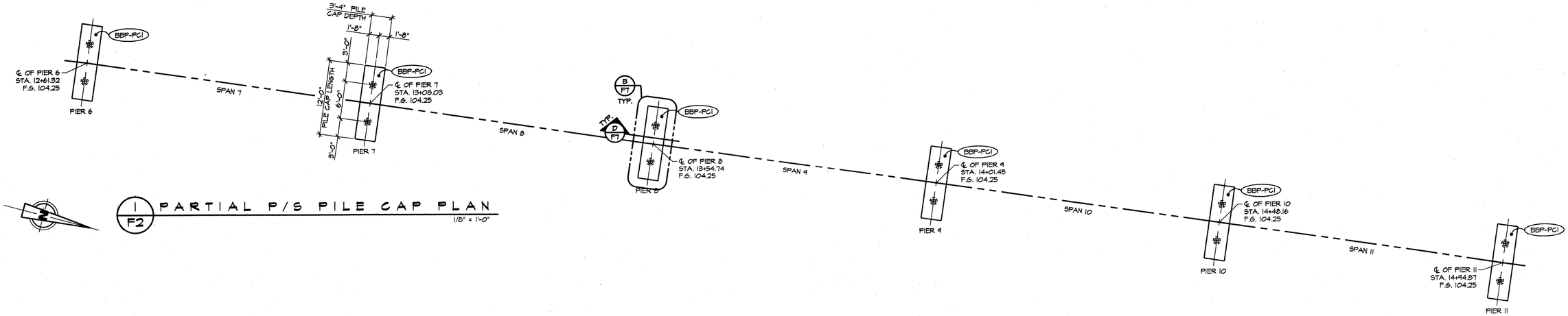
DATE: SEPT. 26, 2003
SCALE: NOTED
CHK'D: DFTM: B.L.
JOB NO: 23169-03

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S PILE CAP & SOLID SLAB LAYOUTS
(SPANS 1-6)

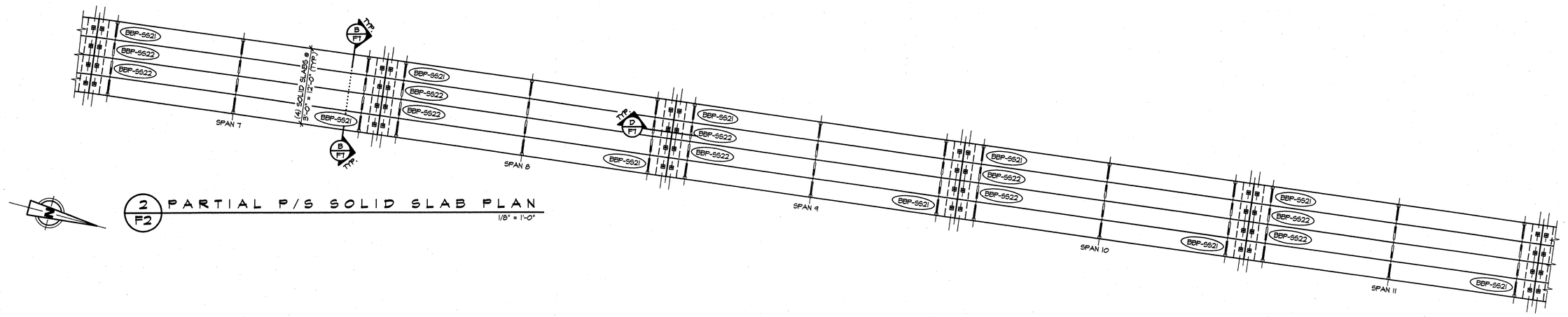
DWG. NO: F1
089

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1/F2 PARTIAL P/S PILE CAP PLAN

1/8" = 1'-0"



2/F2 PARTIAL P/S SOLID SLAB PLAN

1/8" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

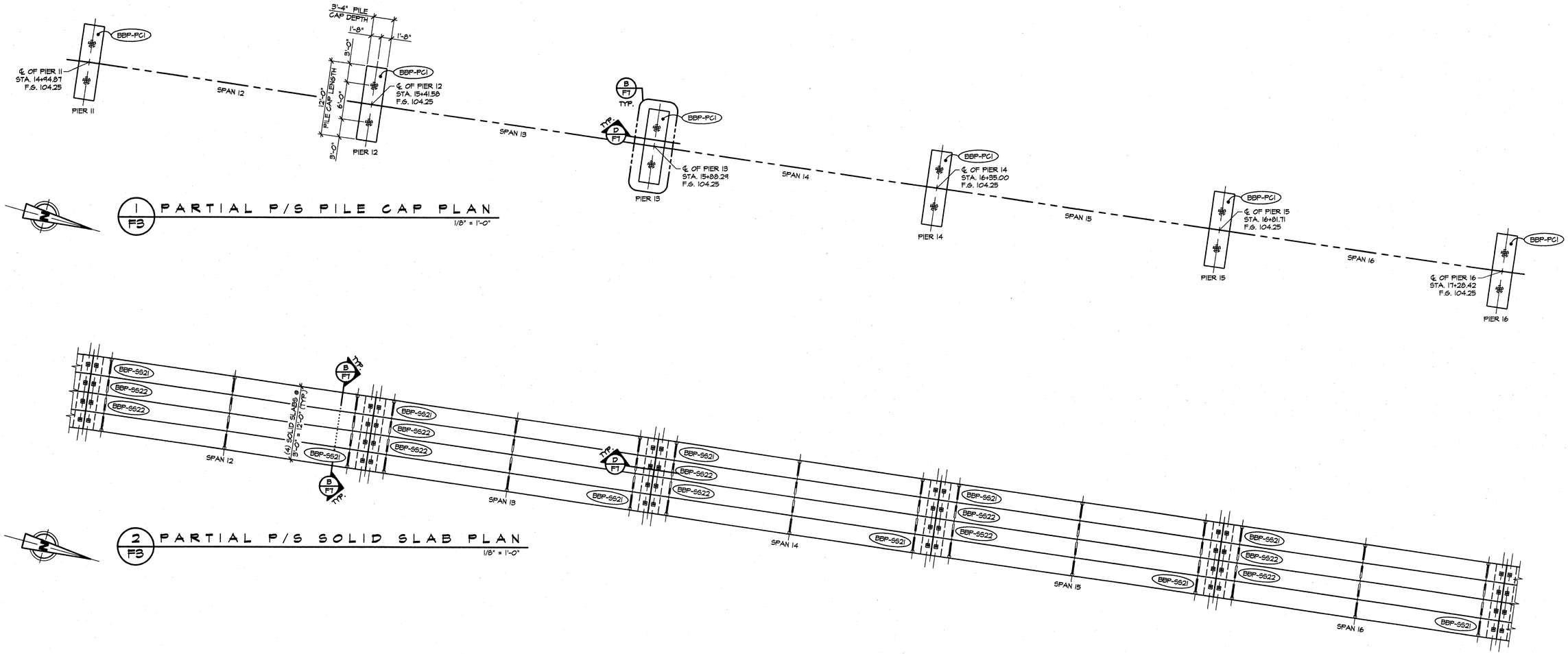
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BY _____ DATE 12/3/03

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2444 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	KUBRICKY CONSTRUCTION CORP. CONTRACTOR GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003
	SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHKD: DFTM: B.L.
	JOB NO: 23169-03
P/S PILE CAP & SOLID SLAB LAYOUTS (SPANS 7-11)	DWG. NO: F2 090

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J.P. CARRARA & SONS, INC.

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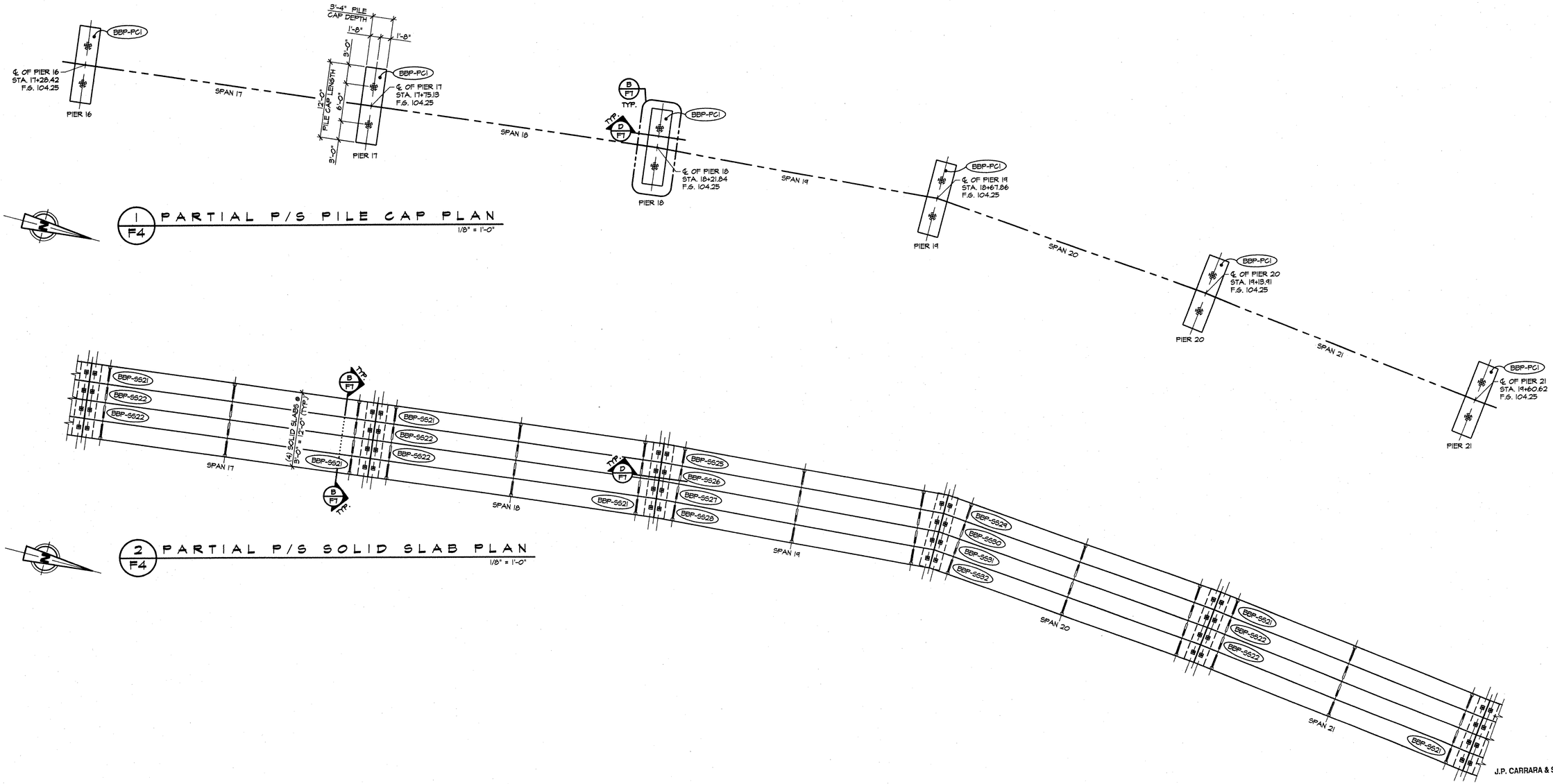
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J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	KUBRICKY CONSTRUCTION CORP. CONTRACTOR GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003
	SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHKD: DFTM: B.L.
	JOB NO: 23169-03
P/S PILE CAP & SOLID SLAB LAYOUTS (SPANS 12-16)	DWG. NO: 091 F3

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J.P. CARRARA & SONS, INC.

NOV 12 2003

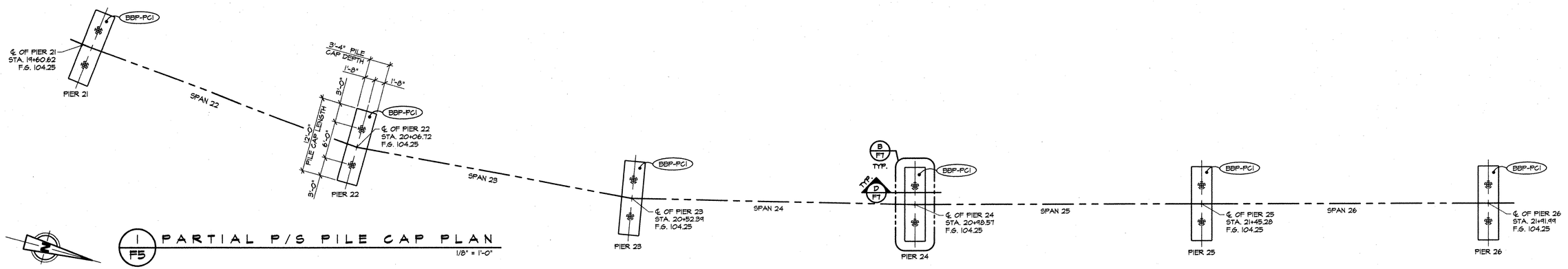
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BY DATE 12/3/03

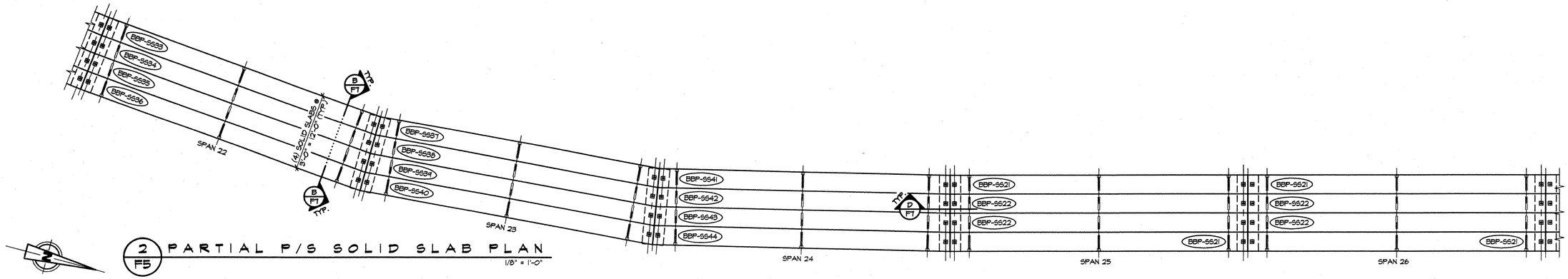
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	KUBRICKY CONSTRUCTION CORP. CONTRACTOR GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003
	SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHKD: DFTM: B.L.
	JOB NO: 23169-03
P/S PILE CAP & SOLID SLAB LAYOUTS (SPANS 17-21)	DWG. NO: F4 092

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1/F5 PARTIAL P/S PILE CAP PLAN

1/8" = 1'-0"



2/F5 PARTIAL P/S SOLID SLAB PLAN

1/8" = 1'-0"

J.P. CARRARA & SONS, INC.

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J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DATE: SEPT. 26, 2003

SCALE: NOTED

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

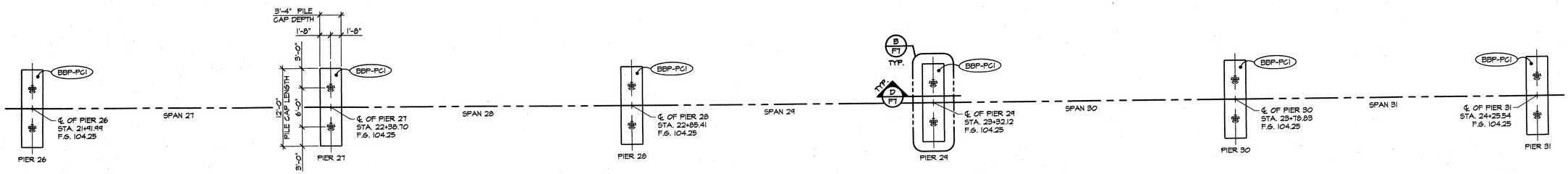
CHKD: DFTM: B.L.

JOB NO: 23169-03

P/S PILE CAP & SOLID SLAB LAYOUTS
(SPANS 22-26)

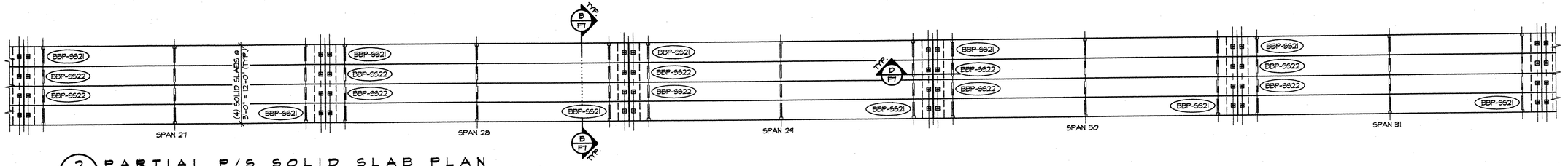
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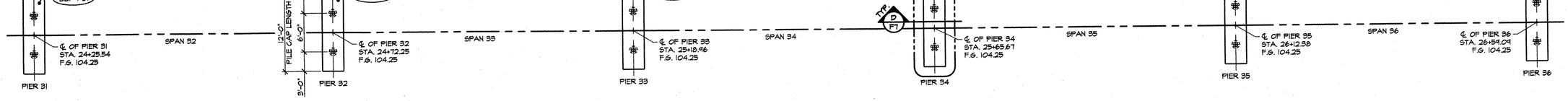
1/F6 PARTIAL P/S PILE CAP PLAN

1/8" = 1'-0"



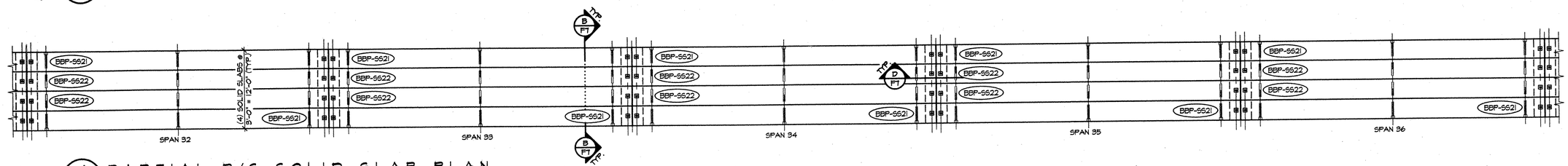
2/F6 PARTIAL P/S SOLID SLAB PLAN

1/8" = 1'-0"



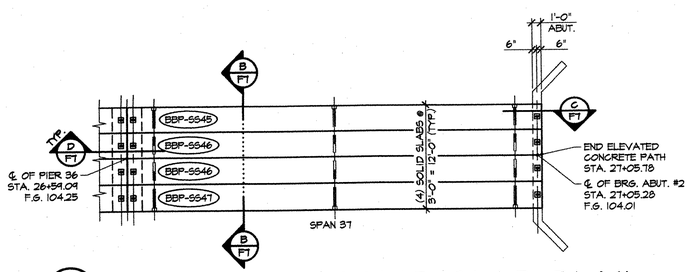
3/F6 PARTIAL P/S PILE CAP PLAN

1/8" = 1'-0"



4/F6 PARTIAL P/S SOLID SLAB PLAN

1/8" = 1'-0"



5/F6 PARTIAL P/S SOLID SLAB PLAN

1/8" = 1'-0"

J.P. CARRARA & SONS, INC.

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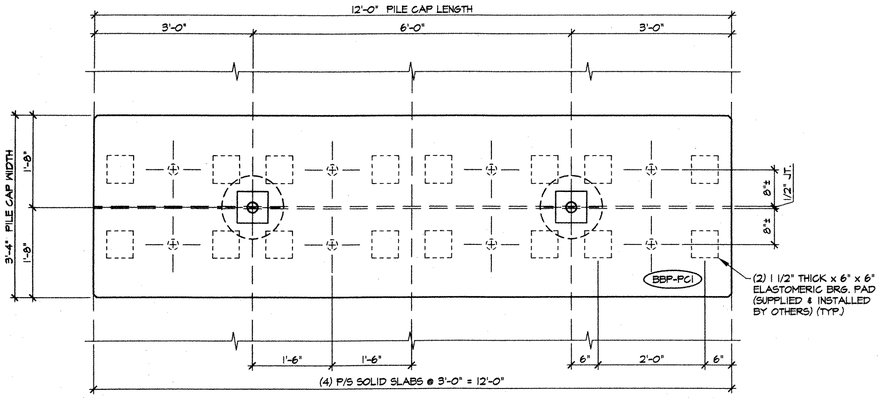
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BY
DATE 12/3/03

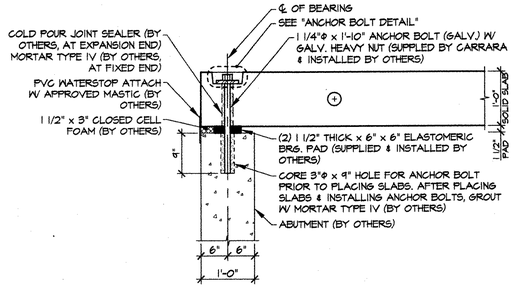
J.P. CARRARA & SONS INC. — Precast & Prestress Manufacturer — 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	KUBRICKY CONSTRUCTION CORP. — CONTRACTOR — GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003 SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHKD: DFTM: B.L. JOB NO: 23169-03
P/S PILE CAP & SOLID SLAB LAYOUTS (SPANS 27-31, 32-36, & 37)	DWG. NO: F6 094

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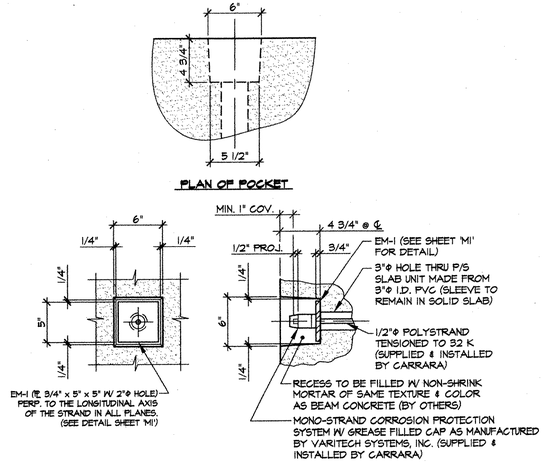
A F7 PILE CAP PLAN

3/4" = 1'-0"



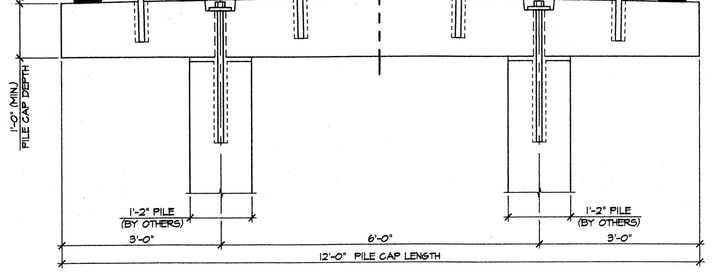
C F7 BEARING SECTION AT ABUTMENT

3/4" = 1'-0"



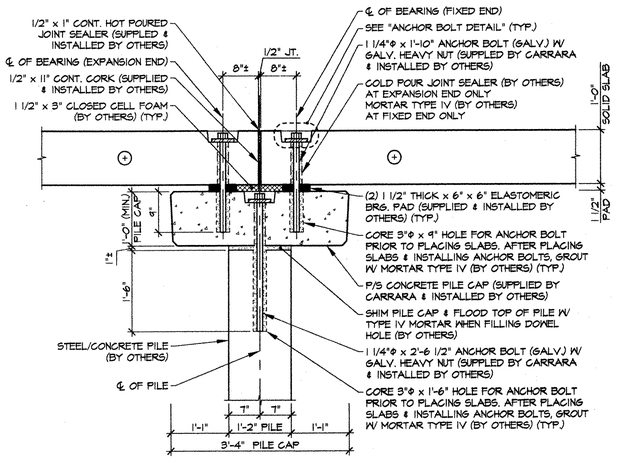
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



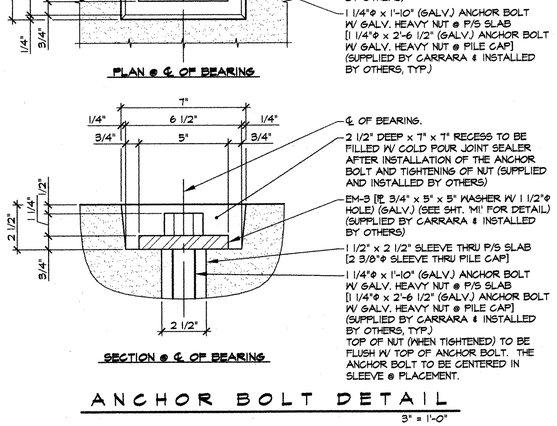
B F7 TRANSVERSE SECTION

3/4" = 1'-0"



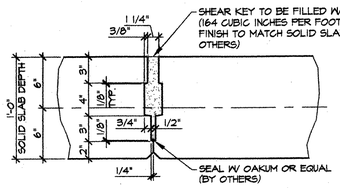
D F7 BEARING SECTION AT PIER

3/4" = 1'-0"



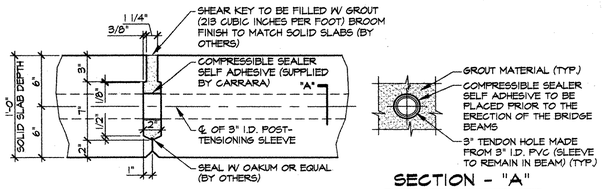
ANCHOR BOLT DETAIL

3" = 1'-0"



E F7 TYP. SHEAR KEY SECTION

1 1/2" = 1'-0"



F F7 SHEAR KEY SECTION AT P.T. SLEEVE

1 1/2" = 1'-0"

SECTION - "A"

1 1/2" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

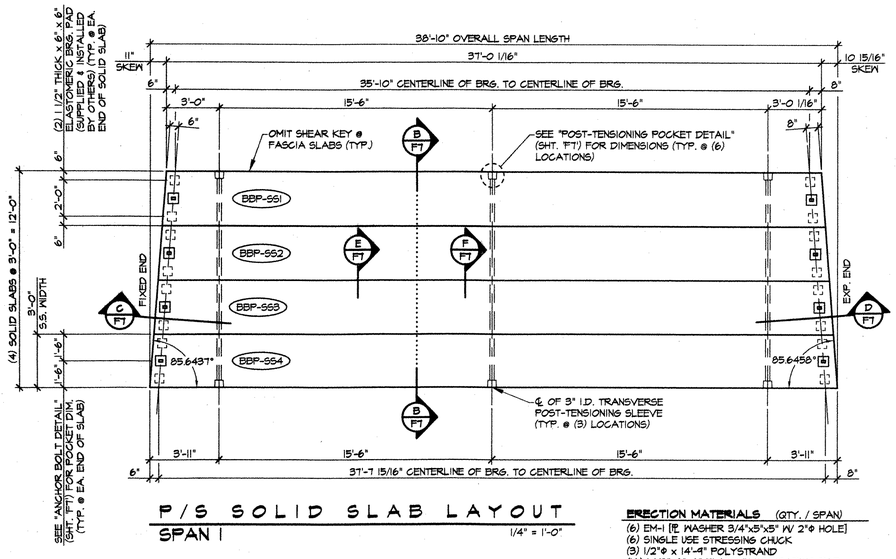
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J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	KUBRICKY CONSTRUCTION CORP. CONTRACTOR GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003
	SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHKD: DFTM: B.L.
	JOB NO: 23169-03
SUPERSTRUCTURE DETAILS	DWG. NO: F7 095

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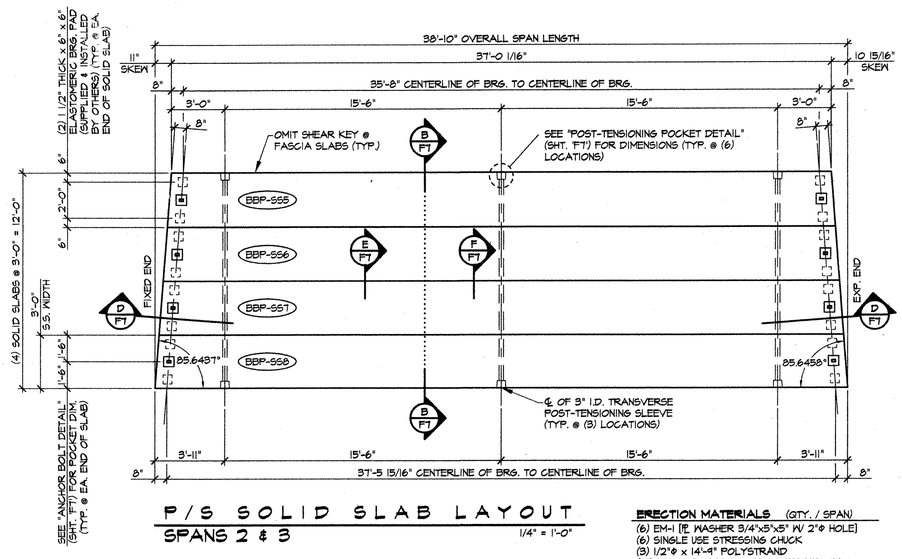
P/S SOLID SLAB LAYOUT

SPAN 1

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-4" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



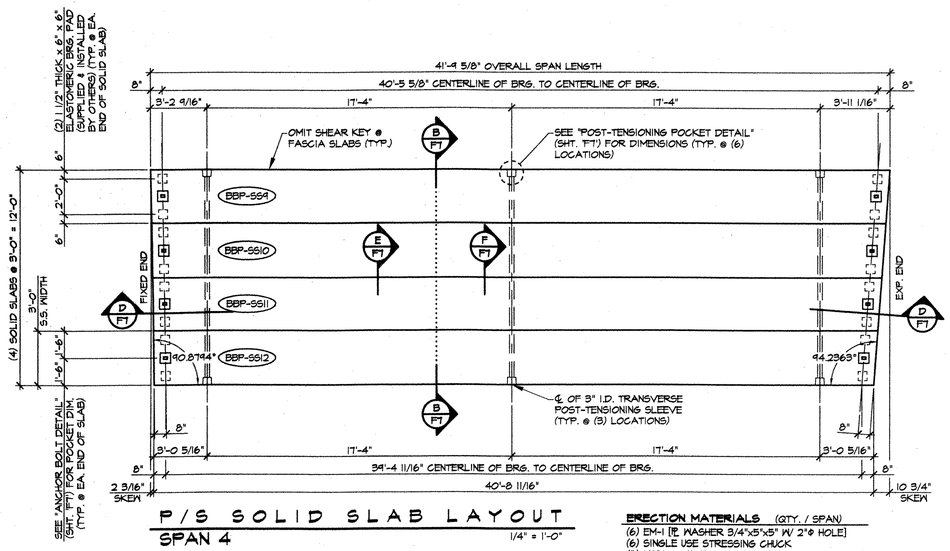
P/S SOLID SLAB LAYOUT

SPANS 2 & 3

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



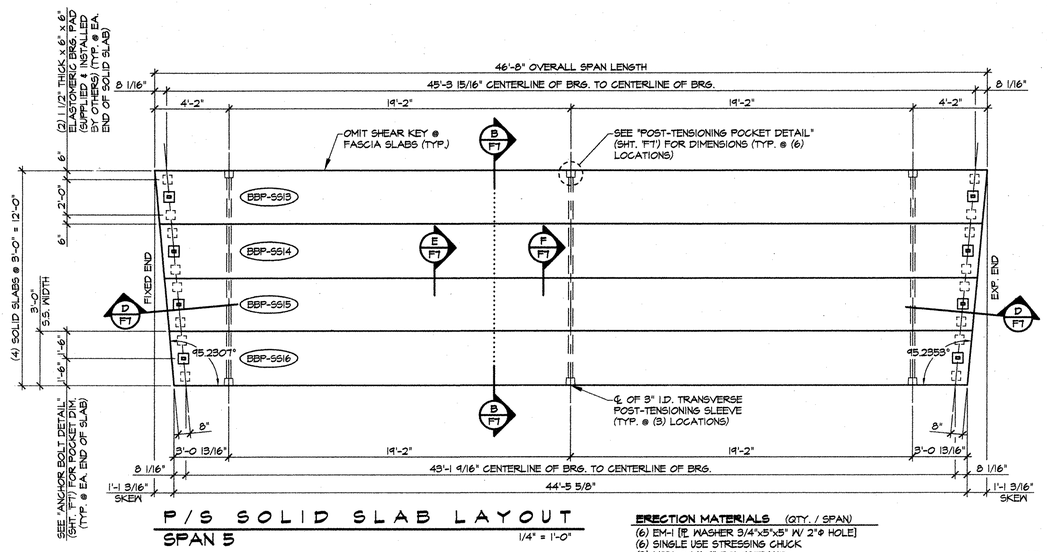
P/S SOLID SLAB LAYOUT

SPAN 4

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



P/S SOLID SLAB LAYOUT

SPAN 5

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]

J.P. CARRARA & SONS, INC.

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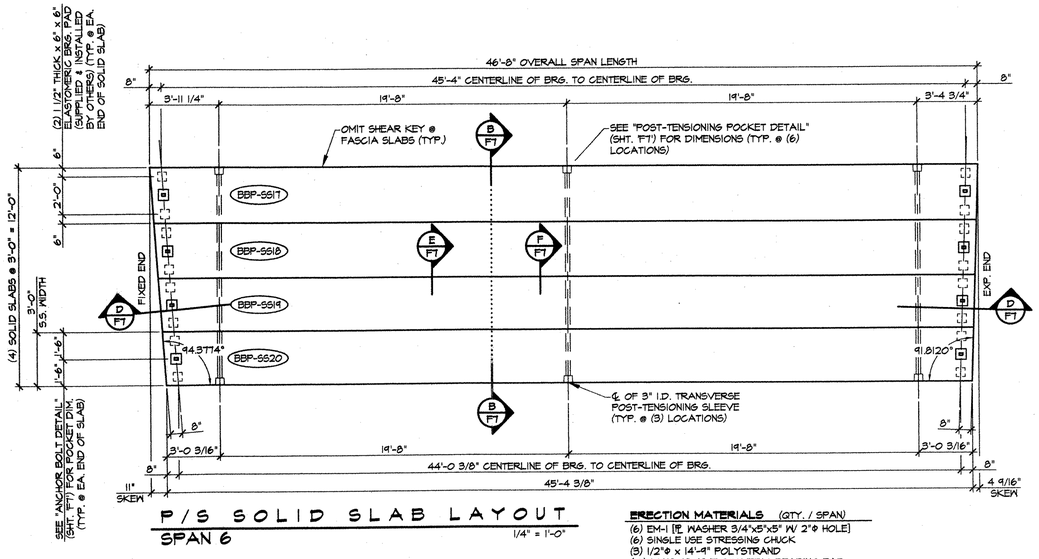
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J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	**KUBRICKY CONSTRUCTION CORP.** CONTRACTOR GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003
	SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHKD: DFTM: B.L.
	JOB NO: 23169-03
P/S SOLID SLAB LAYOUTS	DWG. NO: F8 096

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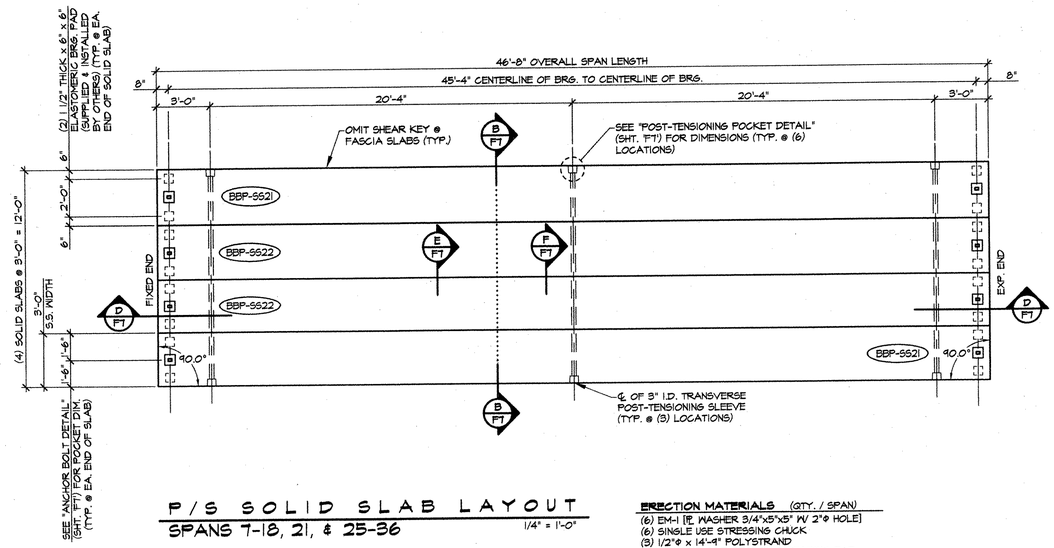
P/S SOLID SLAB LAYOUT

SPAN 6

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-4" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



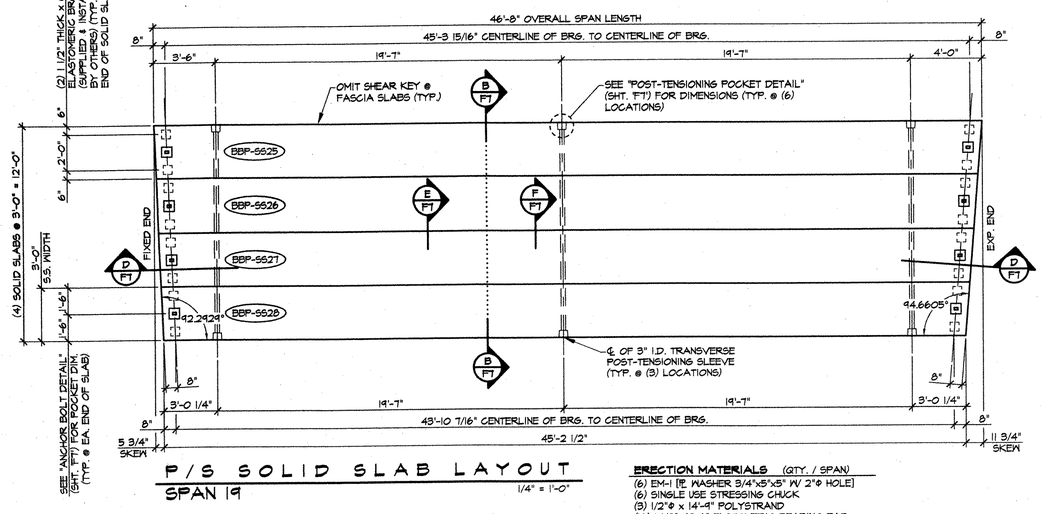
P/S SOLID SLAB LAYOUT

SPANS 7-18, 21, & 25-36

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-4" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



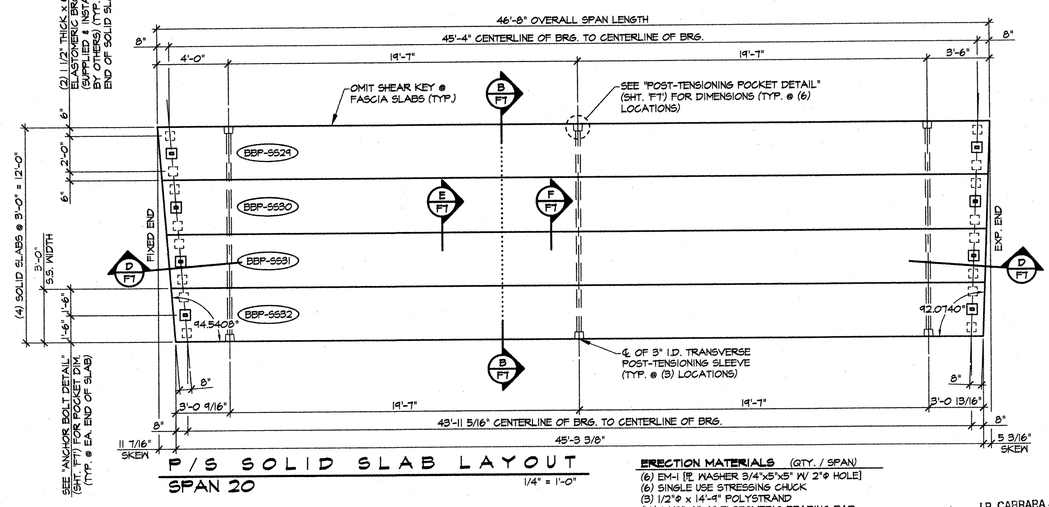
P/S SOLID SLAB LAYOUT

SPAN 19

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-4" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



P/S SOLID SLAB LAYOUT

SPAN 20

1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)

(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-4" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]

J.P. CARRARA & SONS, INC.

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J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

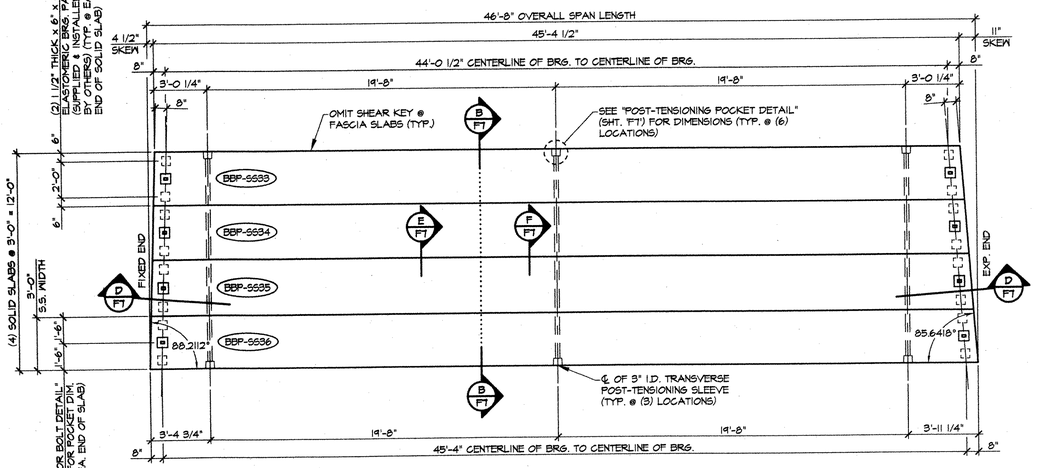
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB LAYOUTS

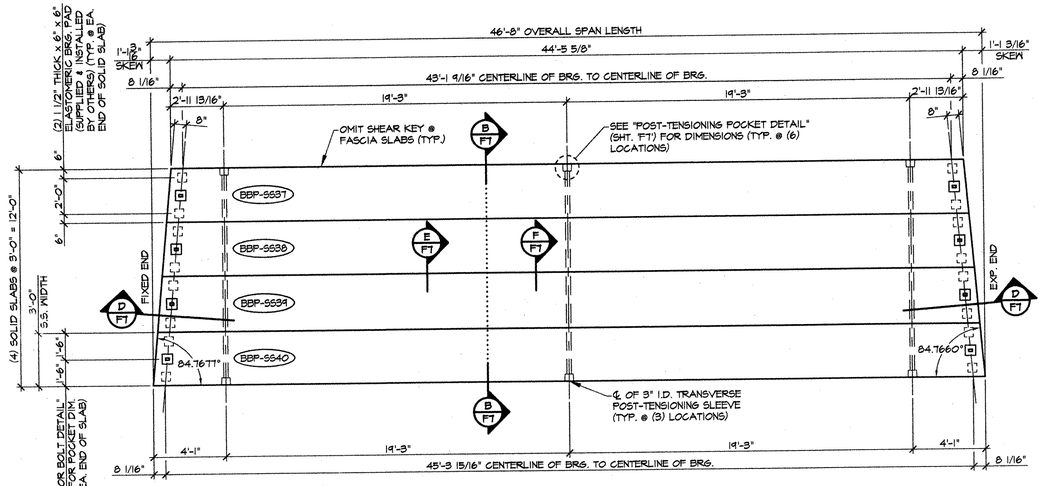
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: F9
097

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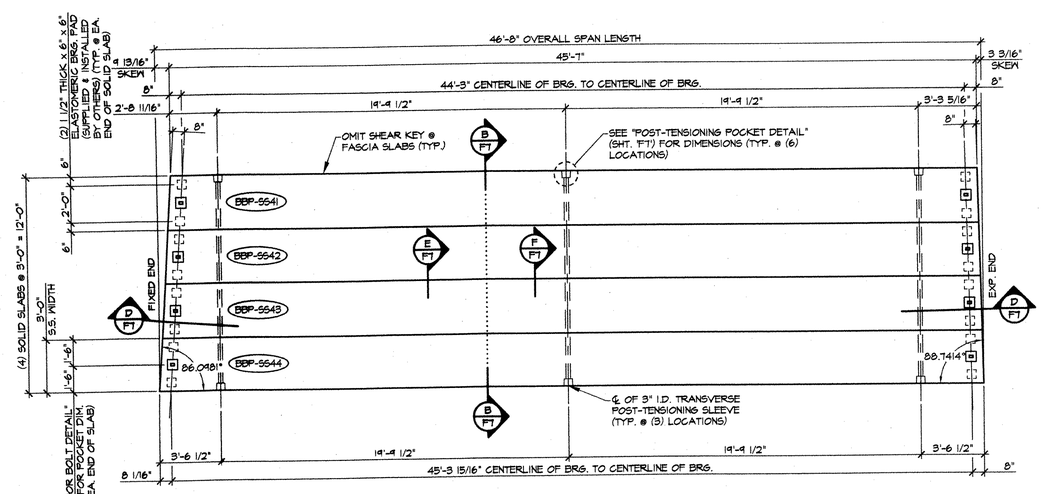
P/S SOLID SLAB LAYOUT
SPAN 22
1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)
(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



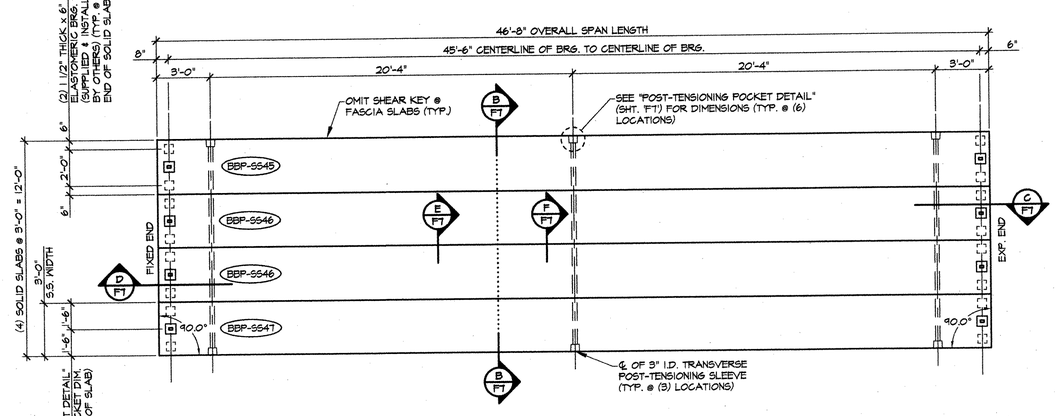
P/S SOLID SLAB LAYOUT
SPAN 23
1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)
(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



P/S SOLID SLAB LAYOUT
SPAN 24
1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)
(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]



P/S SOLID SLAB LAYOUT
SPAN 37
1/4" = 1'-0"

ERECTION MATERIALS (QTY. / SPAN)
(6) EM-1 [℄ WASHER 3/4"x5"x5" W/ 2"Φ HOLE]
(6) SINGLE USE STRESSING CHUCK
(3) 1/2"Φ x 14'-9" POLYSTRAND
(16) 1 1/2"x6"x6" ELSTOMERIC BEARING PADS (SUPPLIED & INSTALLED BY OTHERS)
(8) 1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
(8) EM-3 [℄ WASHER 3/4"x5"x5" W/ 1 1/2"Φ HOLE]

J.P. CARRARA & SONS, INC.

NOV 12 2003

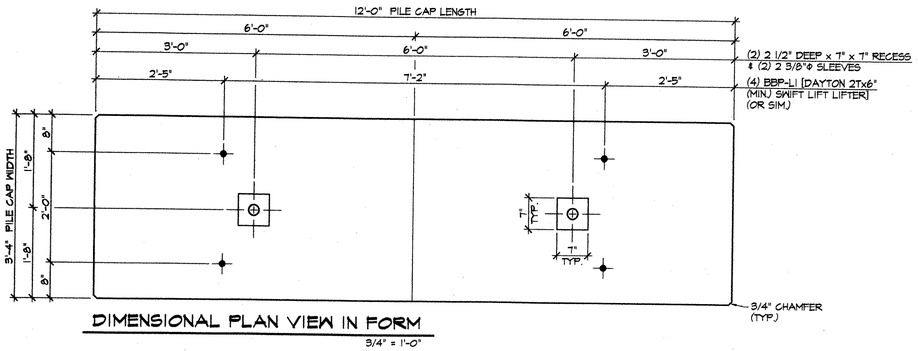
ISSUED FOR PRODUCTION

APPROVAL STAMP:

RECEIVED
CK'D BY Nan OK'D BY
NOV 14 2003
RESUBMIT APPROVED ✓
BY DATE 12/3/03

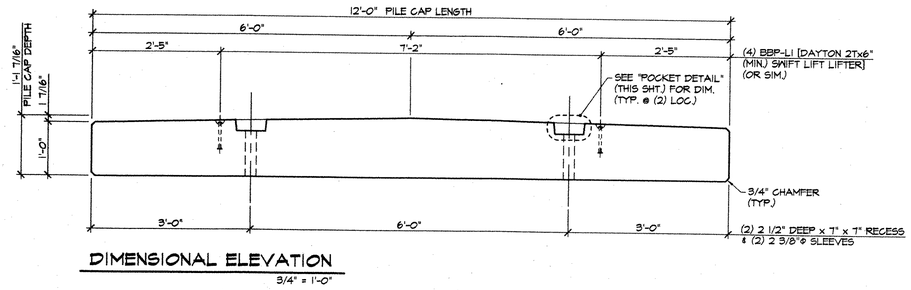
J.P. CARRARA & SONS INC. — Precast & Prestress Manufacturer — 2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	KUBRICKY CONSTRUCTION CORP. — CONTRACTOR — GLENS FALLS, NEW YORK
STATE OF VERMONT AGENCY OF TRANSPORTATION	DATE: SEPT. 26, 2003
	SCALE: NOTED
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)	CHK'D: DFTM: B.L.
	JOB NO: 23169-03
P/S SOLID SLAB LAYOUTS	DWG. NO: F10 098

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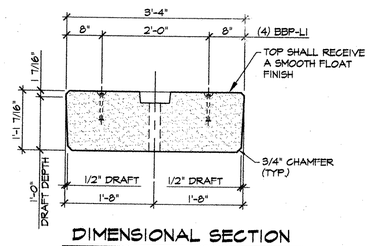
DIMENSIONAL PLAN VIEW IN FORM

3/4" = 1'-0"



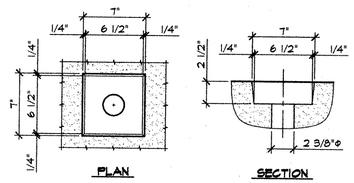
DIMENSIONAL ELEVATION

3/4" = 1'-0"



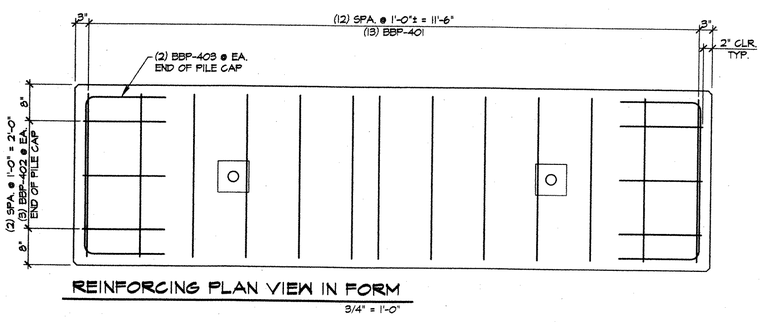
DIMENSIONAL SECTION

3/4" = 1'-0"



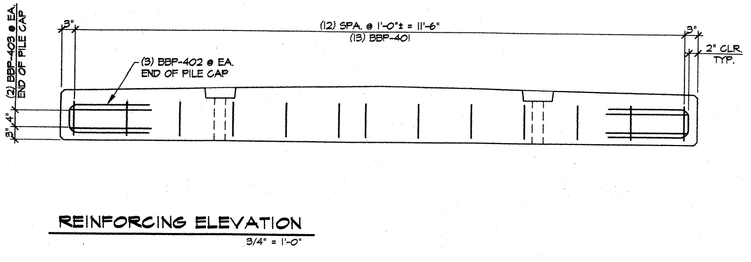
POCKET DETAIL

1 1/2" = 1'-0"



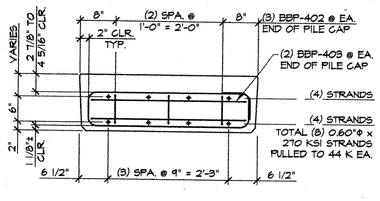
REINFORCING PLAN VIEW IN FORM

3/4" = 1'-0"



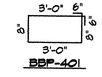
REINFORCING ELEVATION

3/4" = 1'-0"



REINFORCING SECTION

3/4" = 1'-0"







MARK: BBP-PC1	QTY.: 36	WT.: 3.31 T	VOL.: 1.63 cy	

MATERIAL LIST / PILE CAP

ITEM	MARK	DESCRIPTION	QTY.
1	401	#4 BENT BAR	13
2	402	#4 BENT BAR	6
3	403	#4 BENT BAR	4
4			
5			
6			
7			
8			
9	BBP-LI	DAYTON 2T x 6" (MIN.) SWIFT LIFT LIFTER (OR SIM.)	4
10			

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

△ APPROVED BY VAOT 10-2-03

APPROVAL STAMP:

RECEIVED
CK'D BY MGM OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

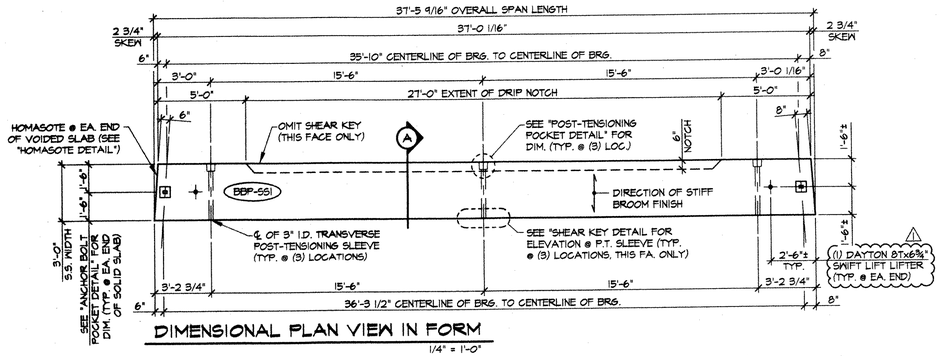
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S PILE CAP DETAILS

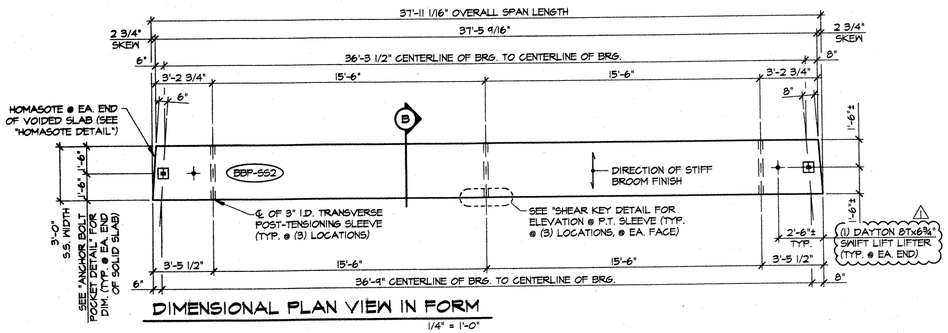
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099

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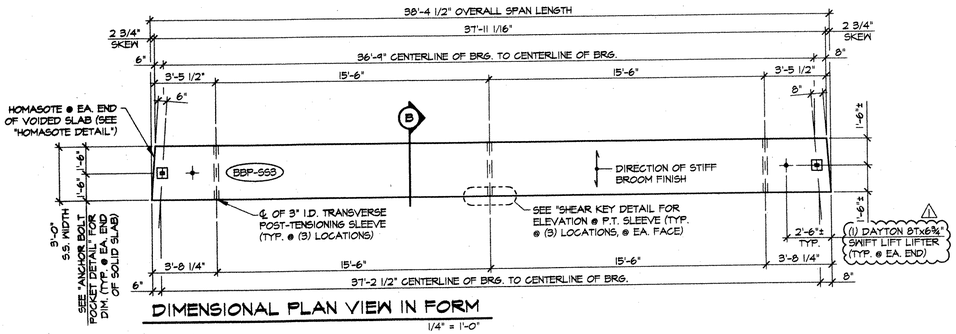
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



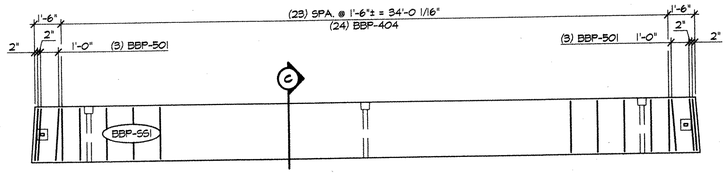
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



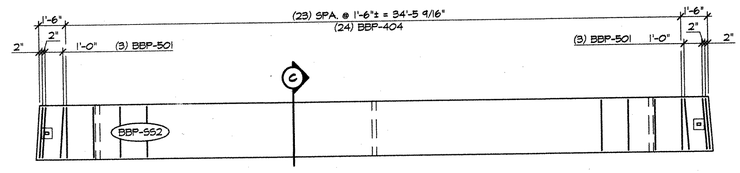
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



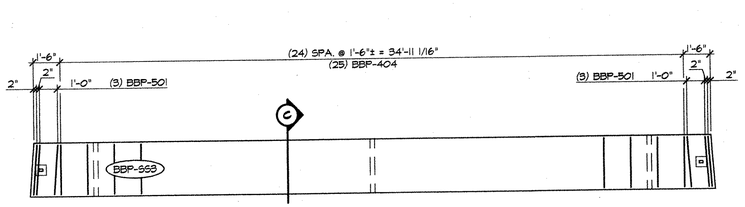
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



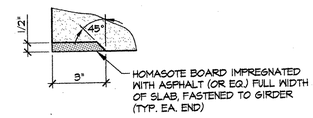
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



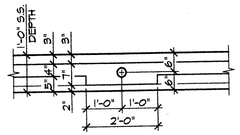
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



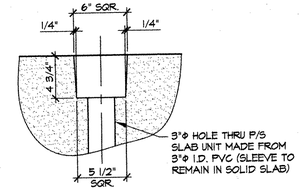
HOMASOTE DETAIL

3" = 1'-0"



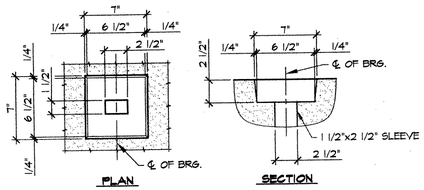
SHEAR KEY DETAIL

1/2" = 1'-0"



POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



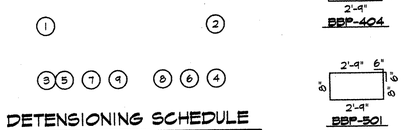
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"

MARK:	QTY.:	WT.:	VOL.:	
MARK: BBP-SS1	QTY.: 1	WT.: 8.23 T	VOL.: 4.07 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS2	QTY.: 1	WT.: 8.21 T	VOL.: 4.06 cy	
MARK: BBP-SS3	QTY.: 1	WT.: 8.31 T	VOL.: 4.10 cy	

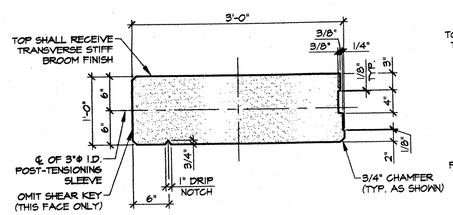
MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS1	SS2	SS3
1	404	#4 BENT BAR	24	24	25
2					
3	501	#5 BENT BAR	6	6	6
4					
5					
6					
7					
8					
9		⚠ DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
10					



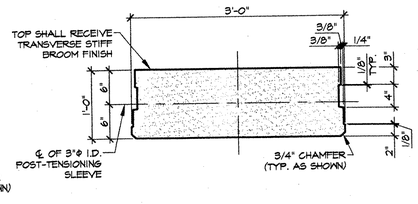
DETENSIONING SCHEDULE

N.T.S.



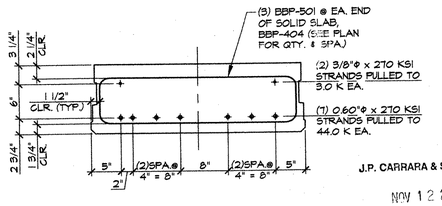
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



C REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY [illegible] OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

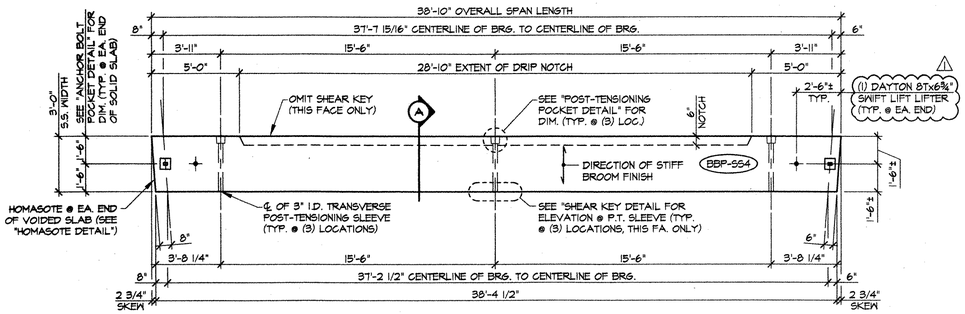
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

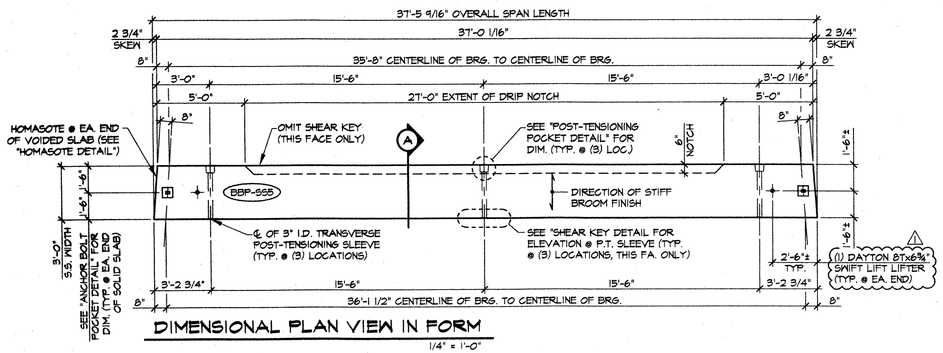
DATE: SEPT. 26, 2003
SCALE: NOTED
CHK'D: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS1 / 100

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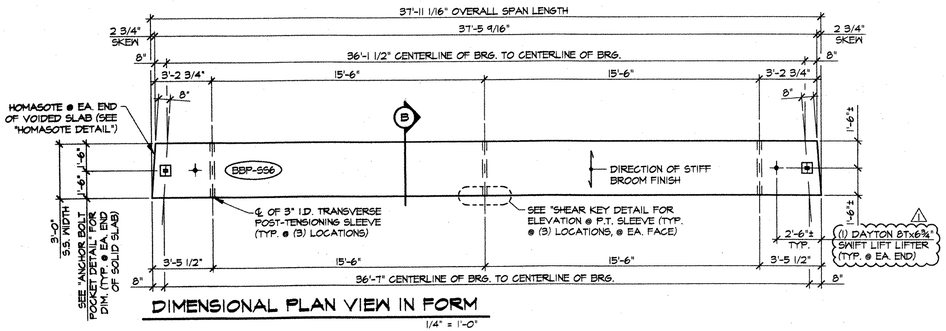
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



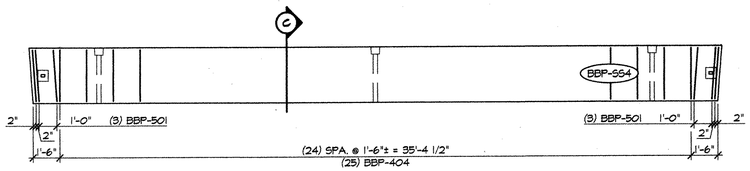
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



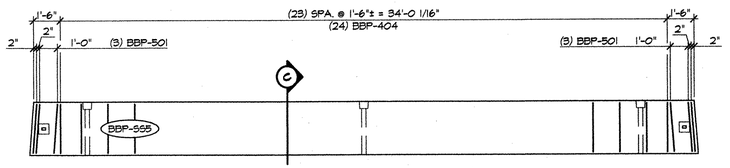
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



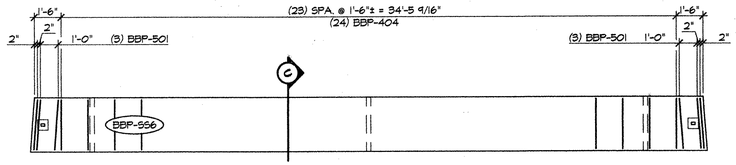
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



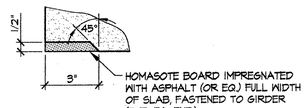
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



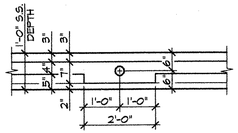
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



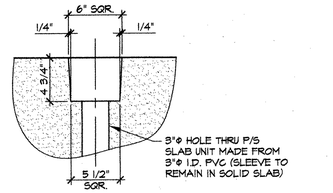
HOMASOTE DETAIL

3" = 1'-0"



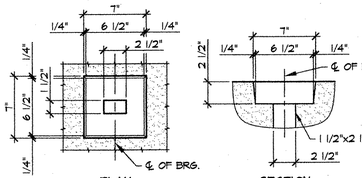
SHEAR KEY DETAIL

1/2" = 1'-0"



POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



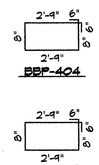
ANCHOR BOLT POCKET DETAIL

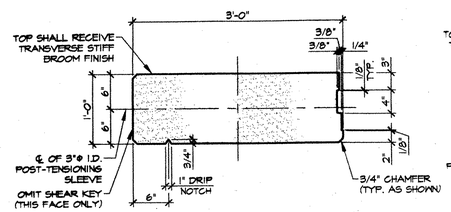
1 1/2" = 1'-0"

MARK: BBP-554	QTY.: 1	WT.: 8.34 T	VOL.: 4.22 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-555	QTY.: 2	WT.: 8.23 T	VOL.: 4.07 cy	
MARK: BBP-556	QTY.: 2	WT.: 8.21 T	VOL.: 4.06 cy	

MATERIAL LIST / SOLID SLAB

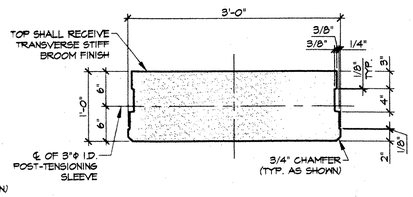
ITEM	MARK	DESCRIPTION	QTY./SLAB 554	555	556
1	404	#4 BENT BAR	25	24	24
2					
3	501	#5 BENT BAR	6	6	6
4					
5					
6					
7					
8					
9	⚠1	DAYTON BT x 6 3/4" SWIFT LIFT LIFTER	2	2	2
10					





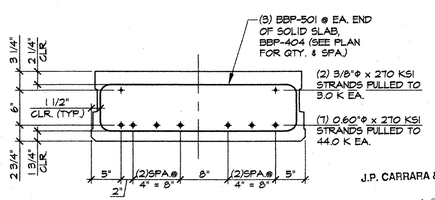
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



C REINFORCING SECTION

1" = 1'-0"

DETENSIONING SCHEDULE

N.T.S.

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

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APPROVED
BY
DATE 12/5/03

J.P. CARRARA & SONS, INC.
Precast & Prestress Manufacturer
2464 OAKE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

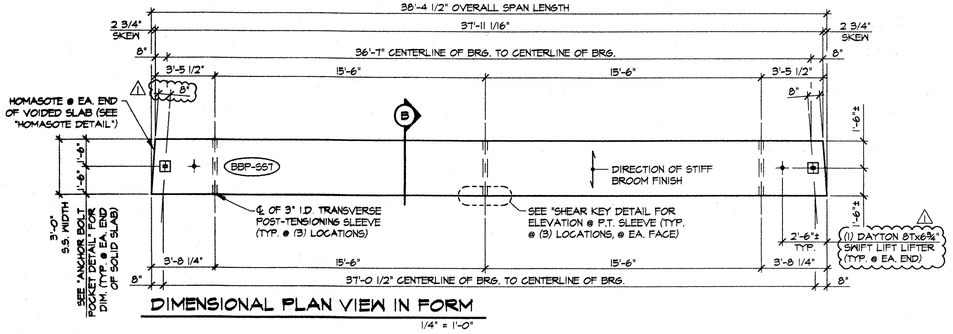
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

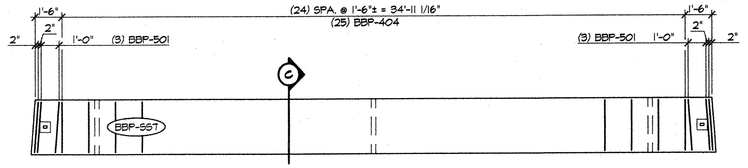
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS2
101

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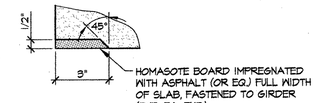
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



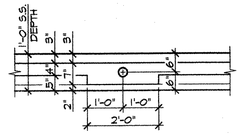
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



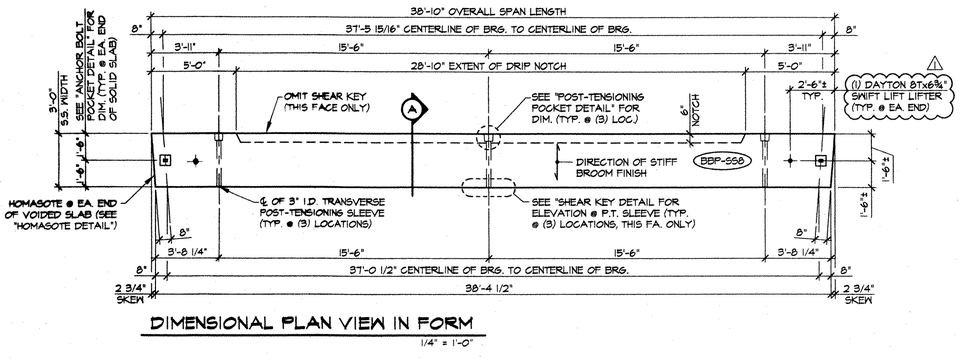
HOMASOTE DETAIL

3" = 1'-0"



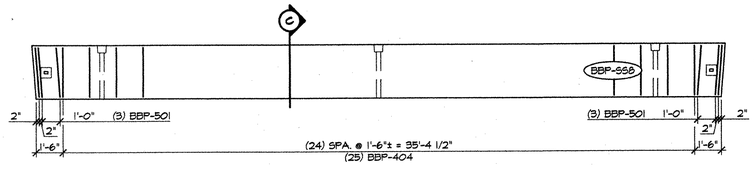
SHEAR KEY DETAIL

1/2" = 1'-0"



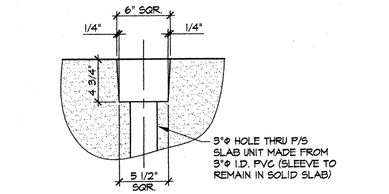
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



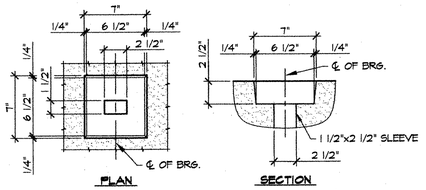
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



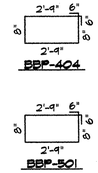
ANCHOR BOLT POCKET DETAIL

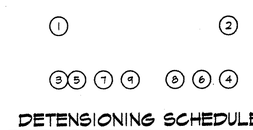
1 1/2" = 1'-0"

MARK: BBP-SST	QTY.: 2	WT.: 8.31 T	VOL.: 4.10 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SSB	QTY.: 2	WT.: 8.34 T	VOL.: 4.22 cy	
MARK:	QTY.:	WT.:	VOL.:	

MATERIAL LIST / SOLID SLAB

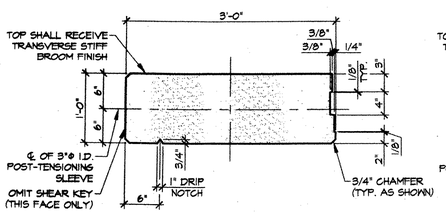
ITEM	MARK	DESCRIPTION	QTY./SLAB SST	QTY./SLAB SSB
1	404	#4 BENT BAR	25	25
2				
3	501	#5 BENT BAR	6	6
4				
5				
6				
7				
8				
9	⚠	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2
10				





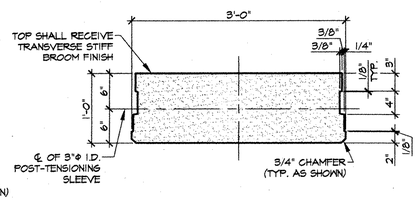
DETENSIONING SCHEDULE

N.T.S.



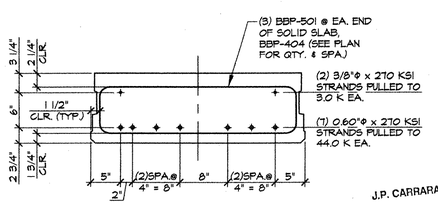
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



C REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

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NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
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GLENS FALLS, NEW YORK

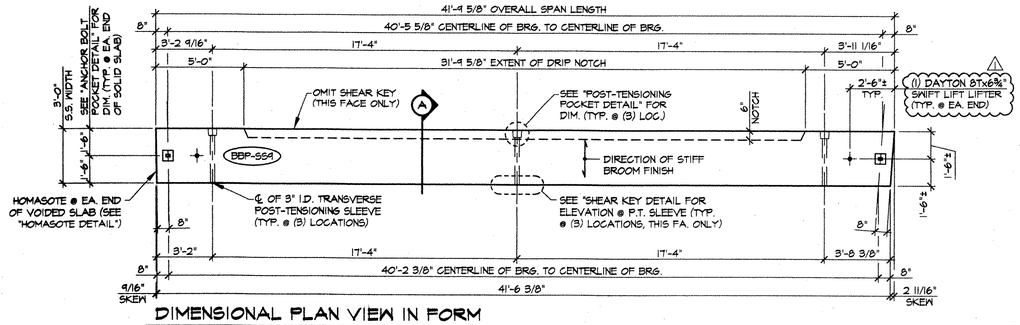
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

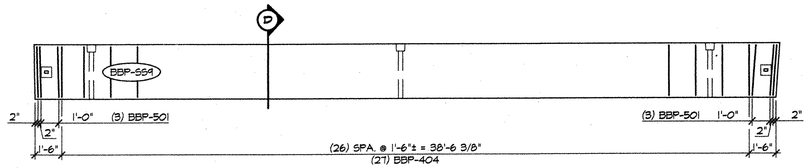
DATE: SEPT. 26, 2003
SCALE: NOTED
CHK'D: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS3
102

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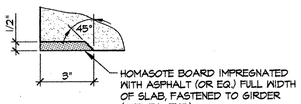
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



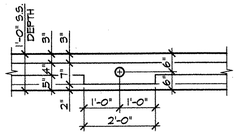
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



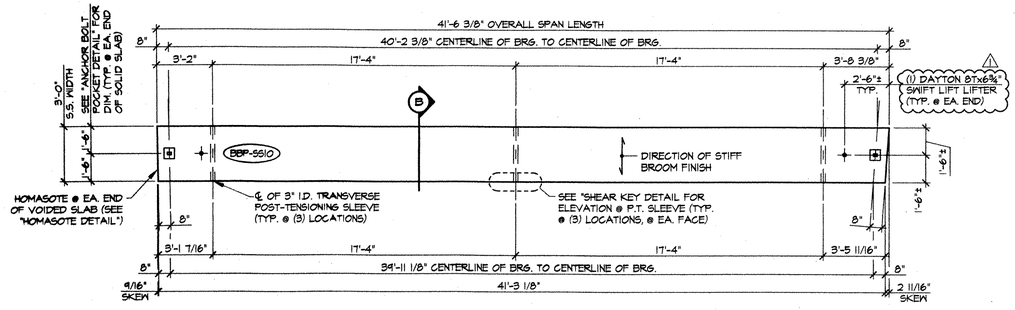
HOMASOTE DETAIL

3" = 1'-0"



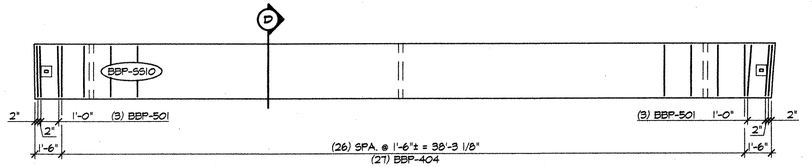
SHEAR KEY DETAIL

1/2" = 1'-0"



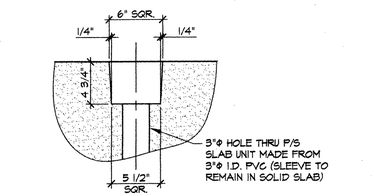
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



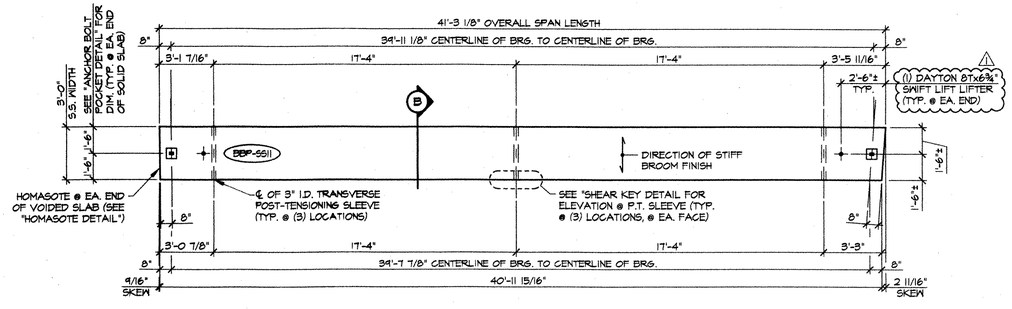
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



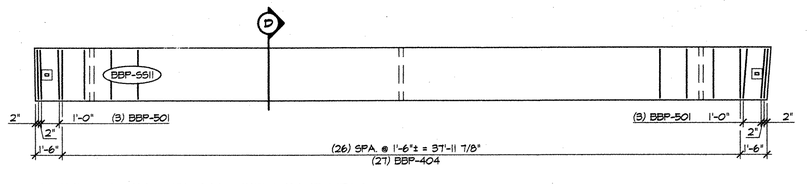
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



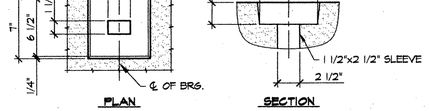
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



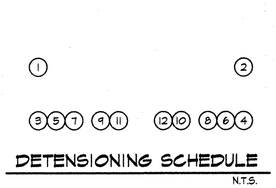
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"

MARK: BBP-SS9	QTY.: 1	WT.: 9.21 T	VOL.: 4.55 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS10	QTY.: 1	WT.: 9.02 T	VOL.: 4.45 cy	
MARK: BBP-SS11	QTY.: 1	WT.: 8.96 T	VOL.: 4.43 cy	

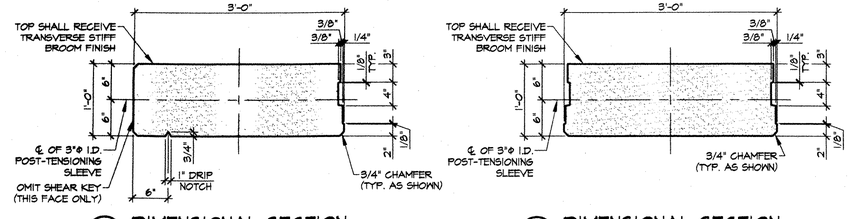
MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS9	SS10	SS11
1	404	#4 BENT BAR	27	27	27
2					
3	501	#5 BENT BAR	6	6	6
4					
5					
6					
7					
8					
9	⚠ 1	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
10					



DETENSIONING SCHEDULE

N.T.S.

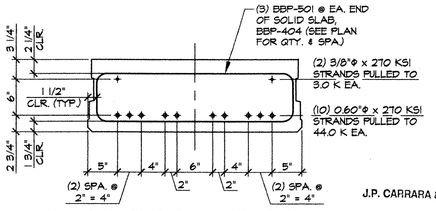


A DIMENSIONAL SECTION

1" = 1'-0"

B DIMENSIONAL SECTION

1" = 1'-0"



D REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

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OK'D BY: OK'D BY
NOV 14 2003
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J.P. CARRARA & SONS INC.
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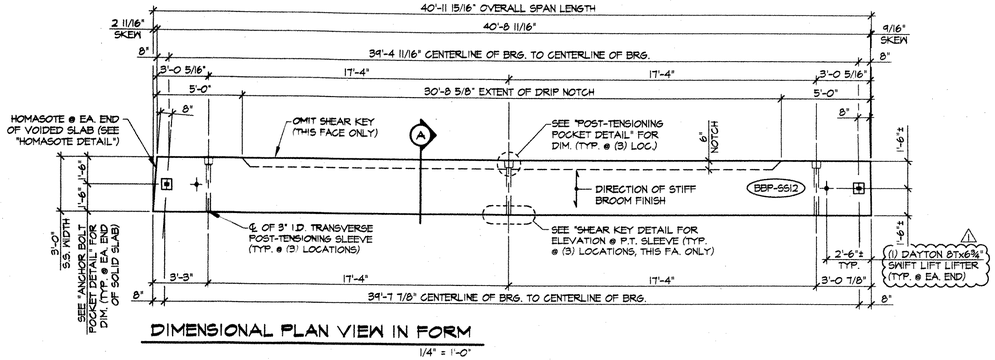
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

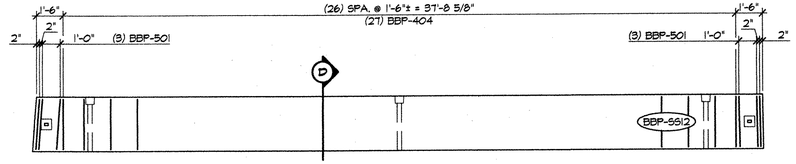
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
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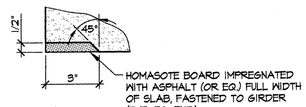
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



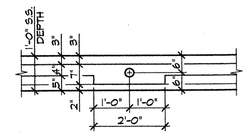
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



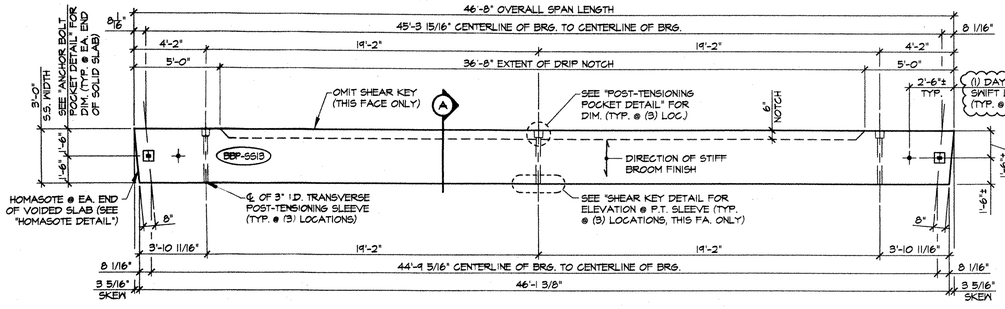
HOMASOTE DETAIL

3" = 1'-0"



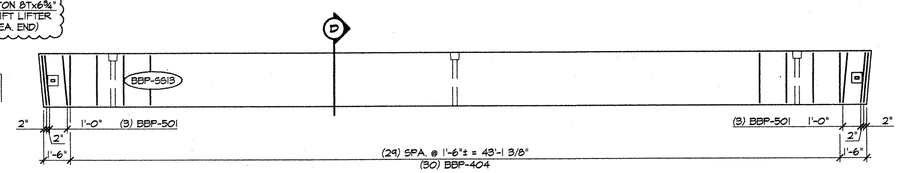
SHEAR KEY DETAIL

1/2" = 1'-0"



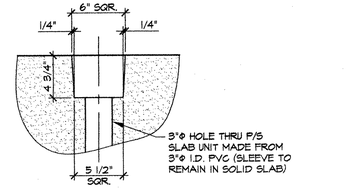
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



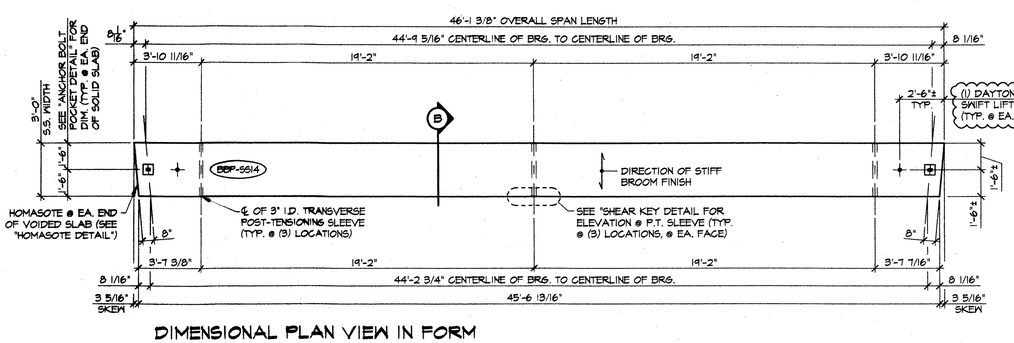
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



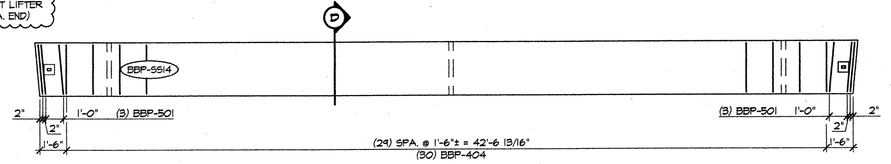
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



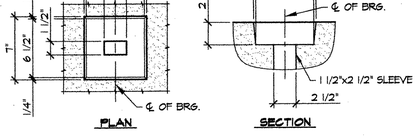
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



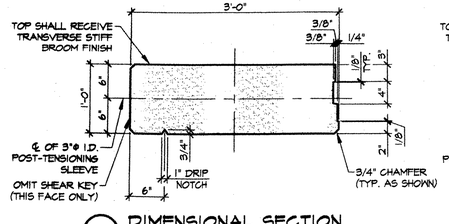
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



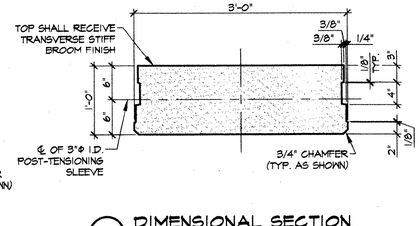
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



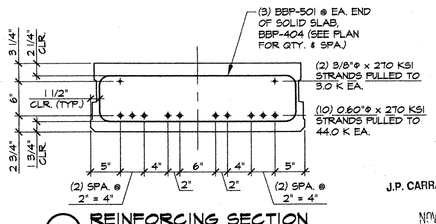
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"

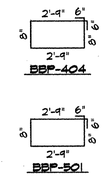


D REINFORCING SECTION

1" = 1'-0"

DETENSIONING SCHEDULE

N.T.S.



MARK: BBP-SS12	QTY.: 1	WT.: 9.04 T	VOL.: 4.46 cy	⚠ f'ci = 3,000 PSI f'c = 6,000 PSI
MARK: BBP-SS13	QTY.: 1	WT.: 10.26 T	VOL.: 5.07 cy	
MARK: BBP-SS14	QTY.: 1	WT.: 9.99 T	VOL.: 4.93 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS12	SS13	SS14
1	404	#4 BENT BAR	27	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠1	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠1 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY NSW CK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS, INC.
NOV 12 2003
ISSUED FOR PRODUCTION

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

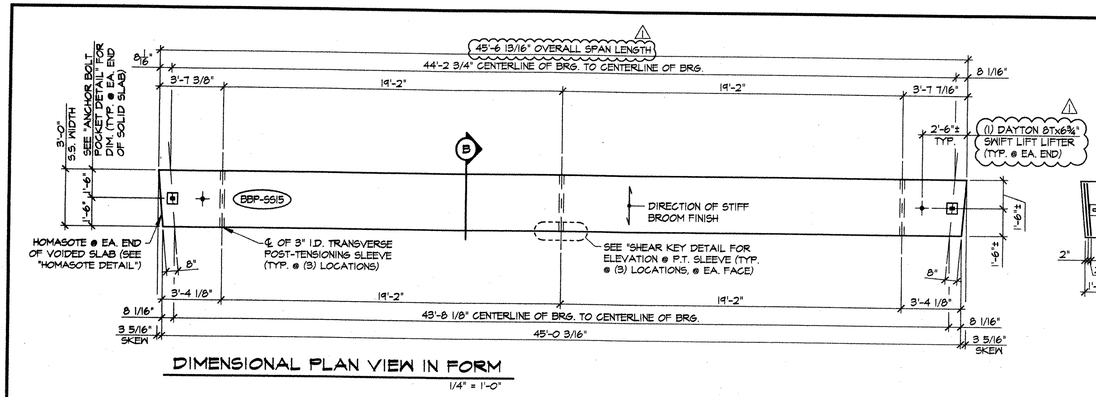
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

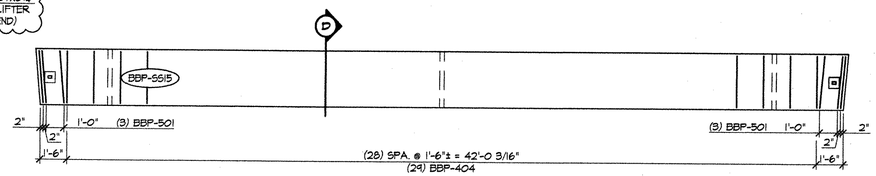
DATE: SEPT. 26, 2003
SCALE: NOTED
CHK'D: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS5
104

F:\VT-Bridges\23169-03 Burlington Bike Path\23169-SS5.dwg, 11/11/2003 04:10:30 PM



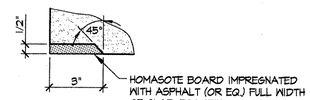
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



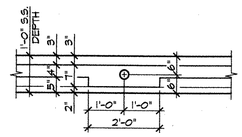
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



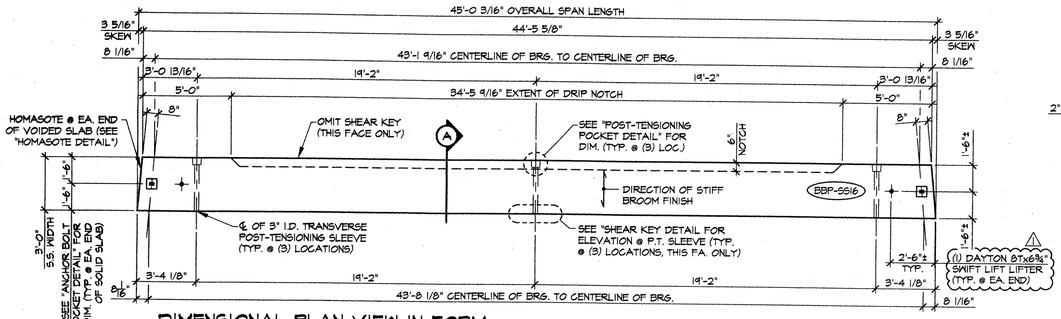
HOMASOTE DETAIL

3" = 1'-0"



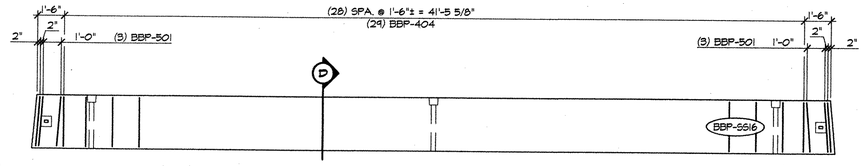
SHEAR KEY DETAIL

1/2" = 1'-0"



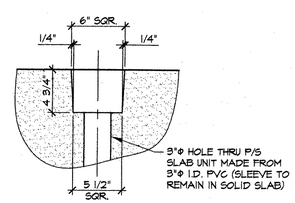
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



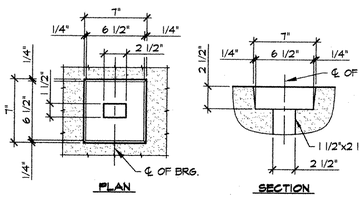
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



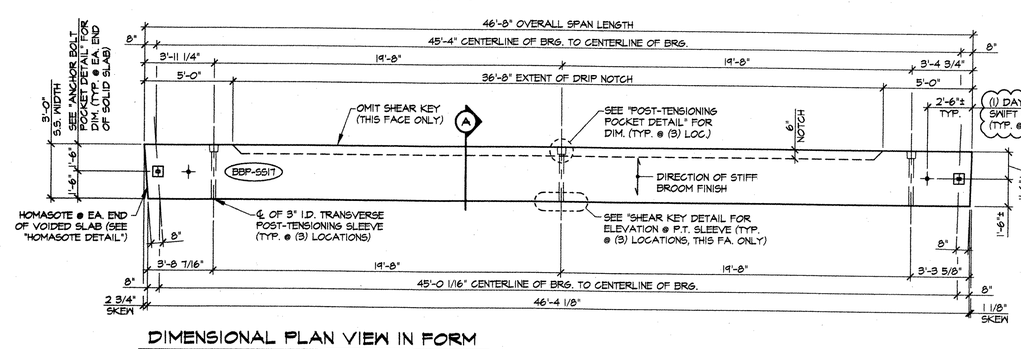
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



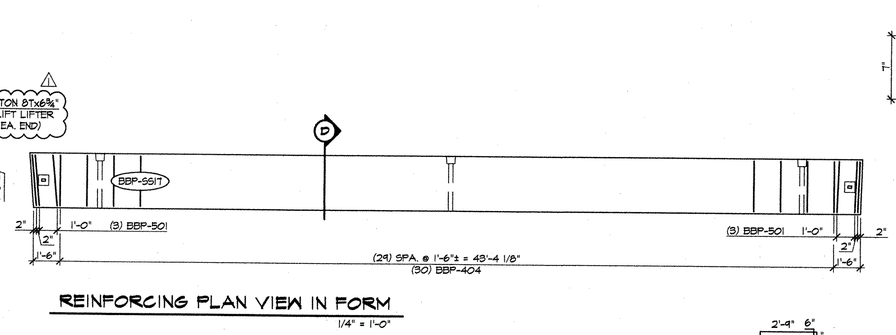
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



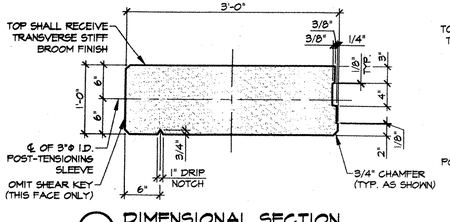
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



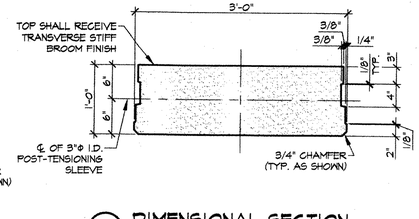
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



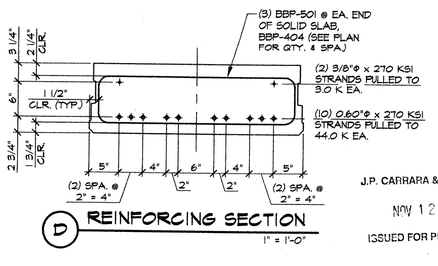
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



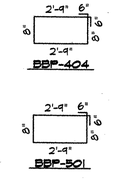
D REINFORCING SECTION

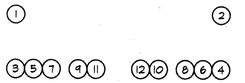
1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION





DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS15	QTY.: 1	WT.: 9.99 T	VOL.: 4.93 cy	⚠
MARK: BBP-SS16	QTY.: 1	WT.: 9.90 T	VOL.: 4.89 cy	f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS17	QTY.: 1	WT.: 10.28 T	VOL.: 5.08 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS15	SS16	SS17
1	404	#4 BENT BAR	29	29	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠ 1	DAYTON BT x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
NOV 14 2003
RESUBMIT
BY
OK'D BY
APPROVED
DATE 12/3/03

J.P. CARRARA & SONS, INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

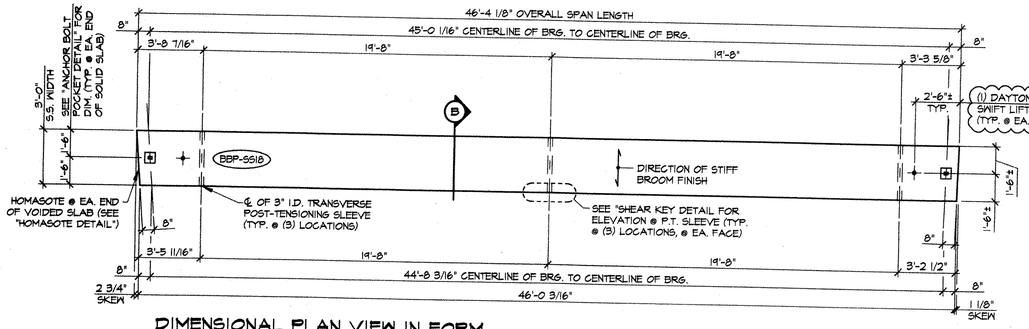
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

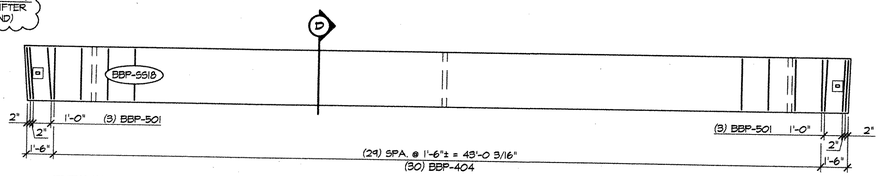
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS6
105

F:\VT-Bridges\23169-03 Burlington Bike Path\23169-SS6.dwg, 11/11/2003 04:24:42 PM



DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



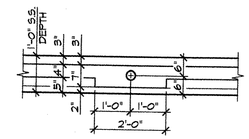
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



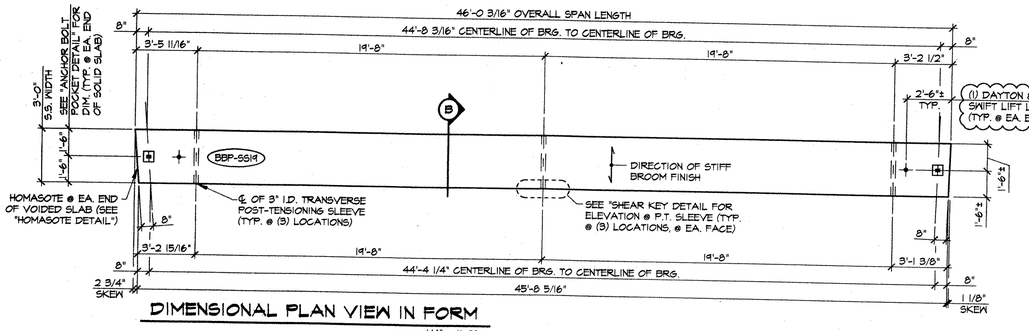
HOMASOTE DETAIL

3" = 1'-0"



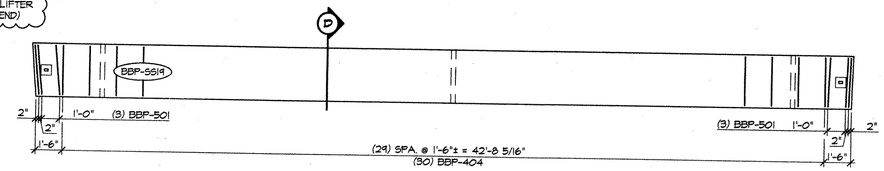
SHEAR KEY DETAIL

1/2" = 1'-0"



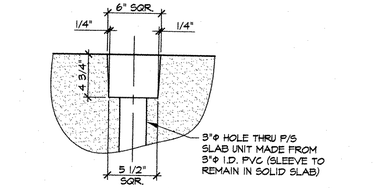
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



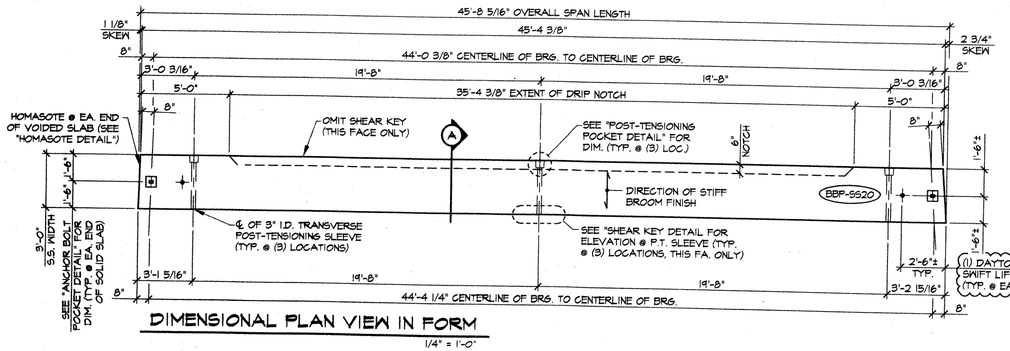
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



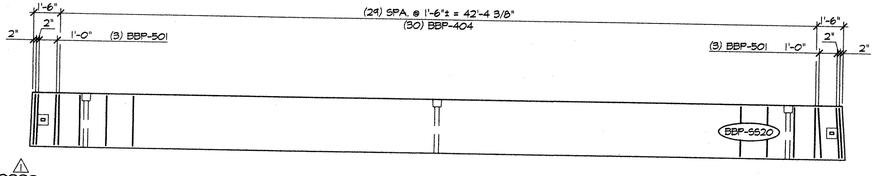
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



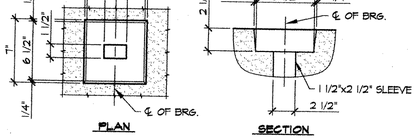
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



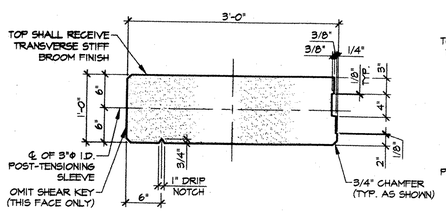
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



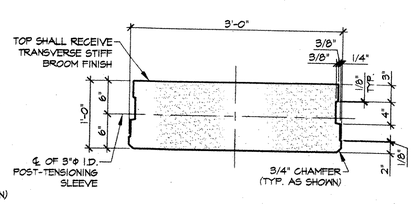
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



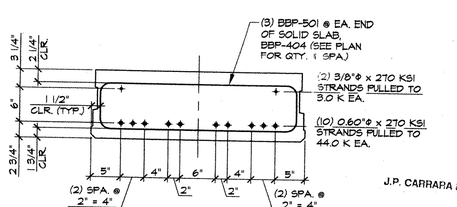
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



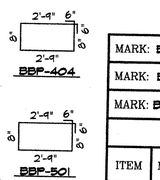
D REINFORCING SECTION

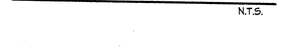
1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION





DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS18	QTY.: 1	WT.: 10.06 T	VOL.: 4.97 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS19	QTY.: 1	WT.: 9.99 T	VOL.: 4.93 cy	
MARK: BBP-SS20	QTY.: 1	WT.: 10.07 T	VOL.: 4.97 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS18	SS19	SS20
1	404	#4 BENT BAR	30	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY VGM OK'D BY
NOV 14 2003
RESUBMIT APPROVED ✓
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DATE: SEPT. 26, 2003
SCALE: NOTED

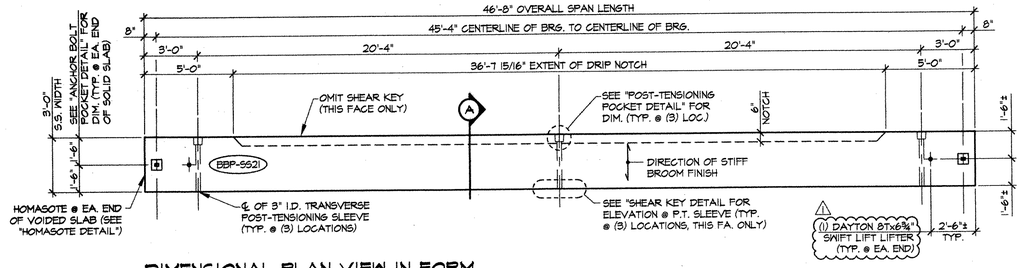
TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

CHK'D: DFTM: B.L.
JOB NO: 23169-03

P/S SOLID SLAB DETAILS

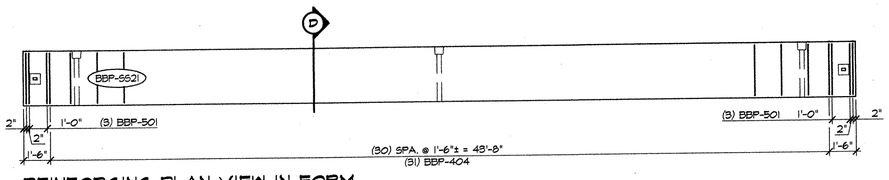
DWG. NO: SS7
106

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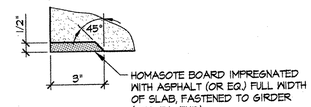
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM

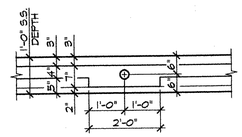
1/4" = 1'-0"



HOMASOTE BOARD IMPREGNATED WITH ASPHALT (OR EQ.) FULL WIDTH OF SLAB, FASTENED TO GIRDER (TYP. EA. END)

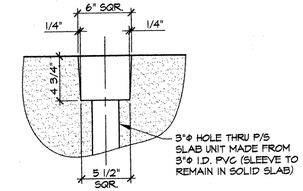
HOMASOTE DETAIL

3" = 1'-0"



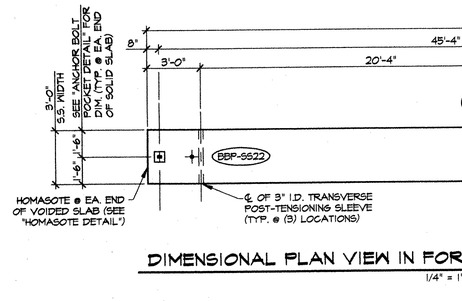
SHEAR KEY DETAIL

1/2" = 1'-0"



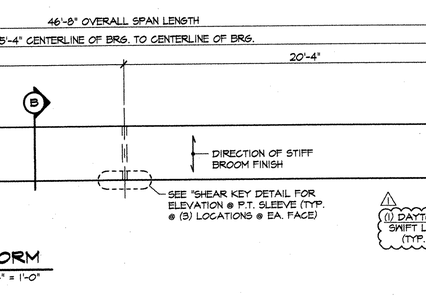
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



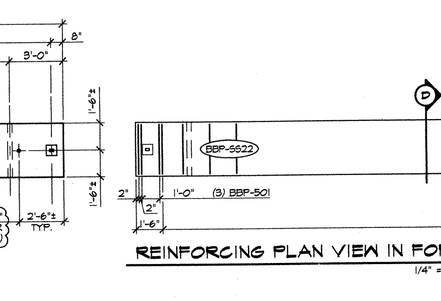
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



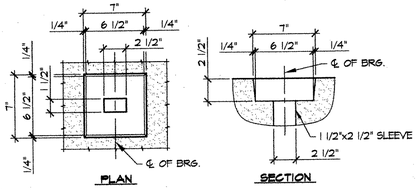
D REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

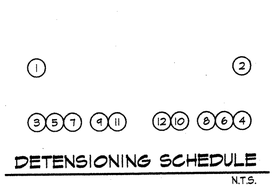
NOV 12 2003

ISSUED FOR PRODUCTION



ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS21	QTY.: 50	WT.: 10.32 T	VOL.: 5.10 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS22	QTY.: 50	WT.: 10.17 T	VOL.: 5.02 cy	
MARK:	QTY.:	WT.:	VOL.:	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS21	SS22	
1	404	#4 BENT BAR	31	31	
2	501	#5 BENT BAR	6	6	
3					
4		⚠ (1) DAYTON BT x 6 3/4" SWIFT LIFT LIFTER	2	2	
5					

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
OK'D BY MGM OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

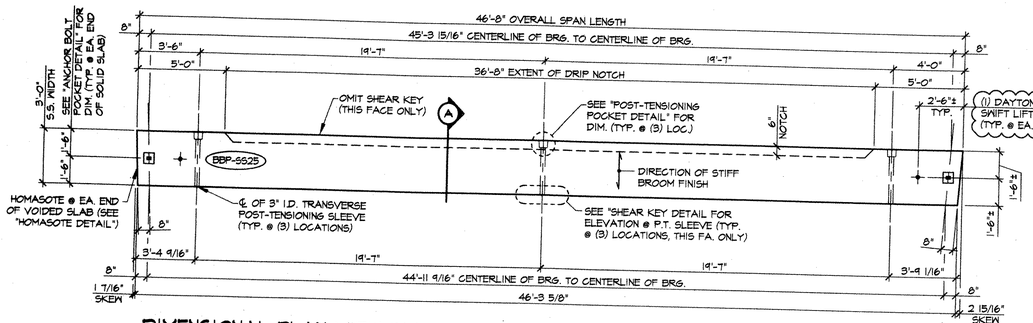
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

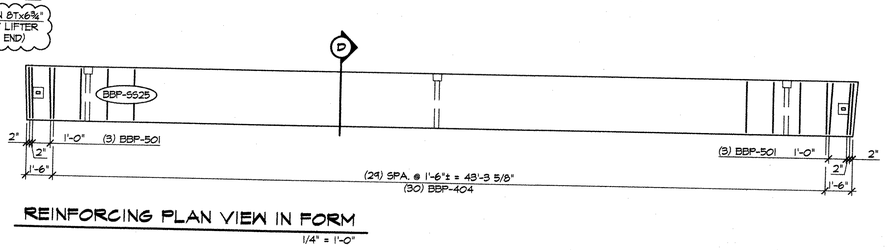
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS8 107

F:\VT-Bridges\23169-03 Burlington Bike Path\23169-SS8.dwg, 11/12/2003 08:06:49 AM



DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM

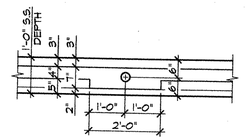
1/4" = 1'-0"



HOMASOTE BOARD IMPREGNATED WITH ASPHALT (OR EQ.) FULL WIDTH OF SLAB, FASTENED TO GIRDER (TYP. EA. END)

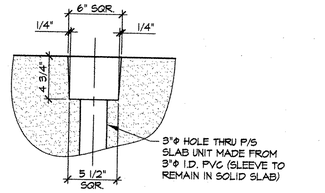
HOMASOTE DETAIL

3" = 1'-0"



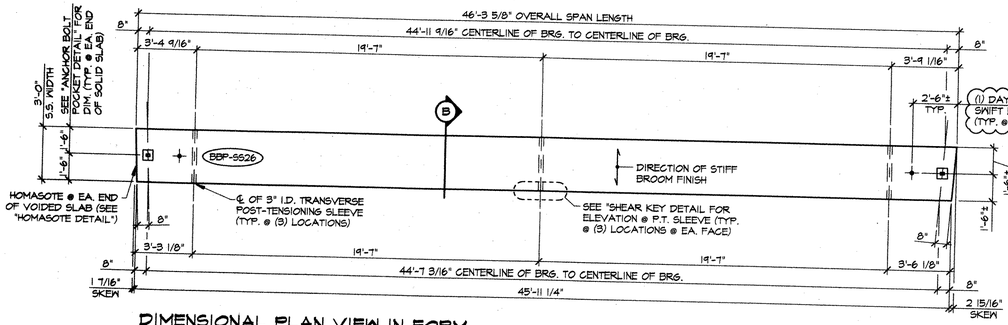
SHEAR KEY DETAIL

1/2" = 1'-0"



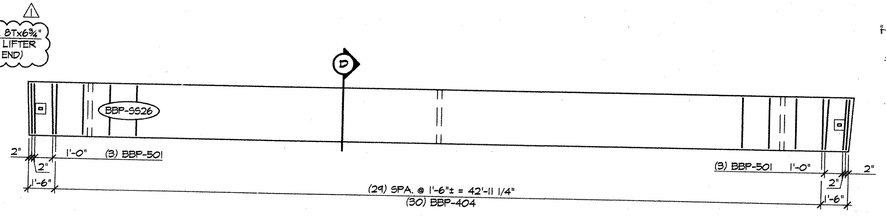
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



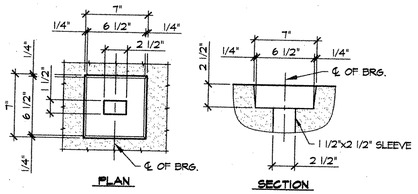
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



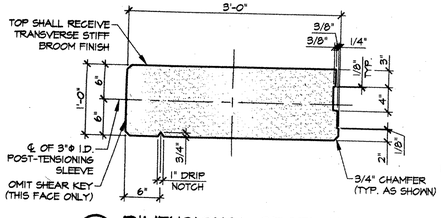
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



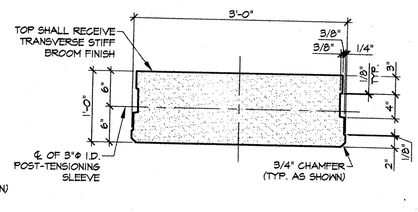
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



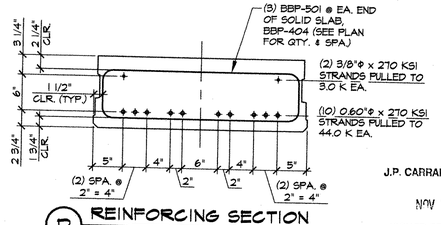
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



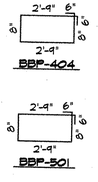
D REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION





DETENSIONING SCHEDULE

N.T.S.

MARK:	QTY.:	WT.:	VOL.:	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS25	QTY.: 1	WT.: 10.28 T	VOL.: 5.08 cy	
MARK: BBP-SS26	QTY.: 1	WT.: 10.21 T	VOL.: 5.04 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION		QTY./SLAB SS25	QTY./SLAB SS26
1	404	#4 BENT BAR		30	30
2	501	#5 BENT BAR		6	6
3					
4	⚠1	DAYTON BT x 6 3/4" SWIFT LIFT LIFTER		2	2
5					

⚠1 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
OK'D BY MGM OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
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GLENS FALLS, NEW YORK

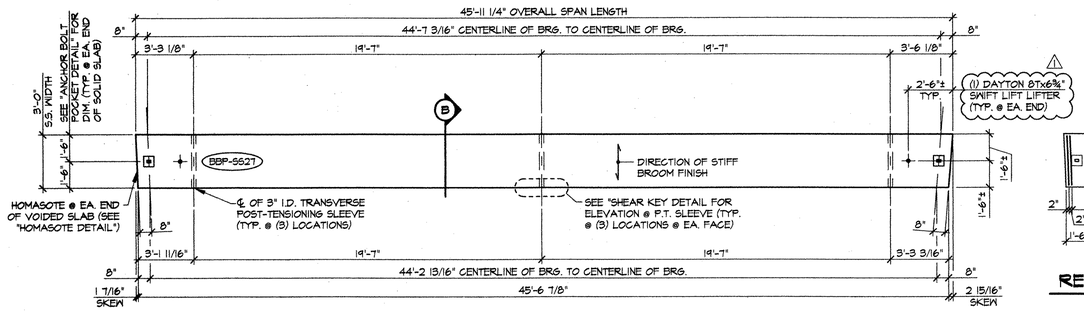
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

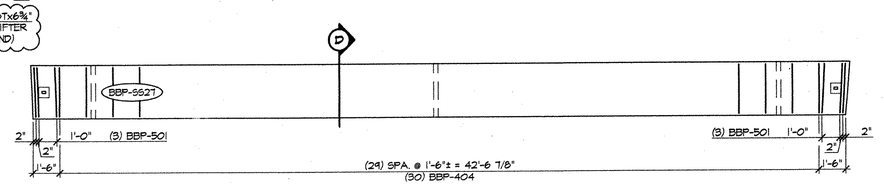
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS9 / 108

F:\VT-Bridges\23169-03 Burlington Bike Path\23169-SS9.dwg, 11/12/2003 09:19:34 AM



DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM

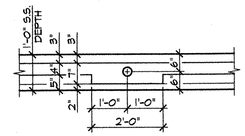
1/4" = 1'-0"



HOMASOTE BOARD IMPREGNATED WITH ASPHALT (OR EQ.) FULL WIDTH OF SLAB, FASTENED TO GIRDER (TYP. EA. END)

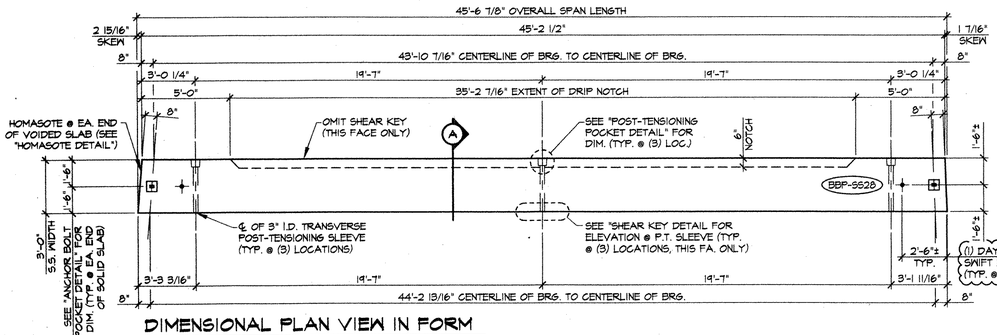
HOMASOTE DETAIL

3" = 1'-0"



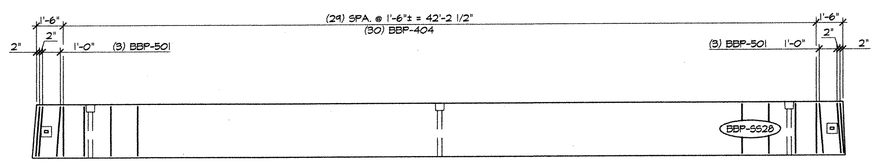
SHEAR KEY DETAIL

1/2" = 1'-0"



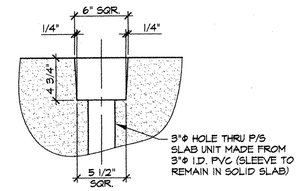
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



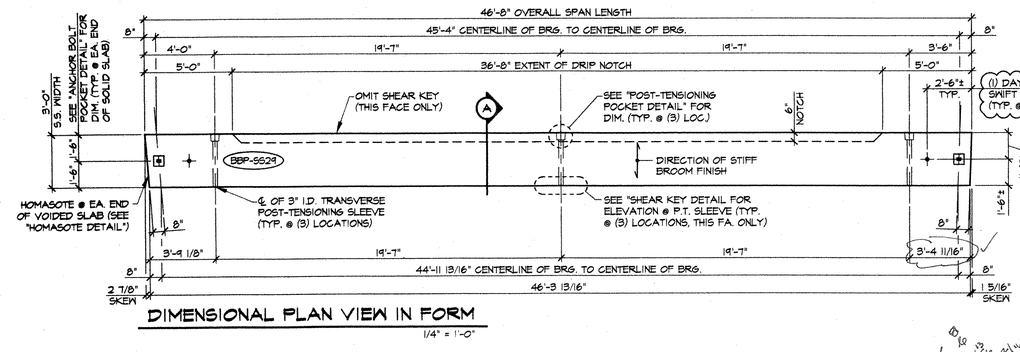
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



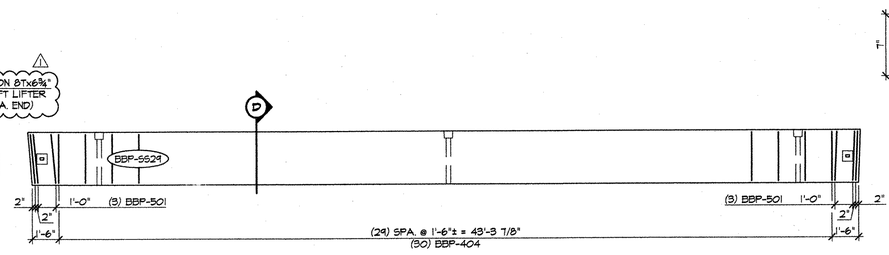
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



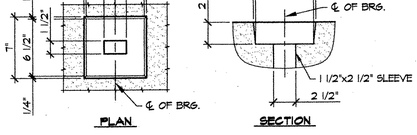
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



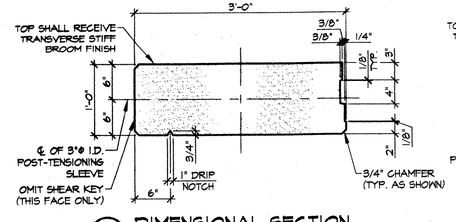
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



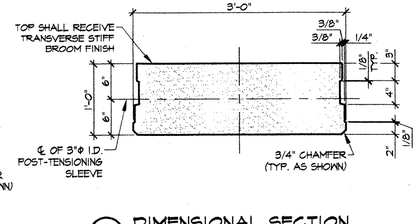
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



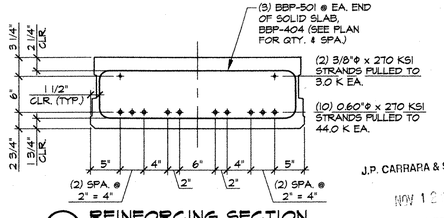
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



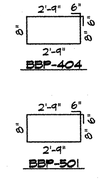
D REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 1 0 2003

ISSUED FOR PRODUCTION



DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-5627	QTY.: 1	WT.: 9.97 T	VOL.: 4.92 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-5628	QTY.: 1	WT.: 10.04 T	VOL.: 4.96 cy	
MARK: BBP-5629	QTY.: 1	WT.: 10.28 T	VOL.: 5.08 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB 5627	5628	5629
1	404	#4 BENT BAR	30	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠1	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠1 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
DK'D BY MGH DK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

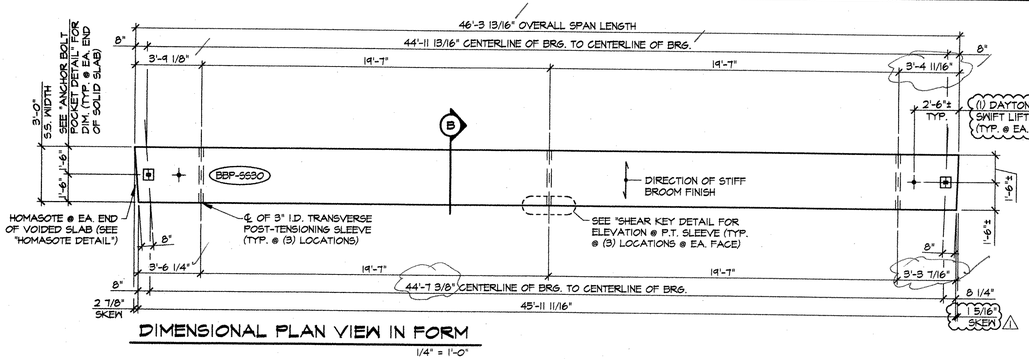
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

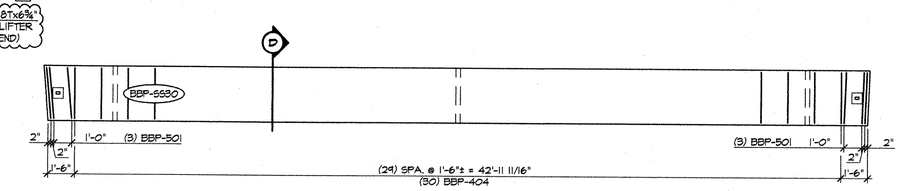
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS10
109

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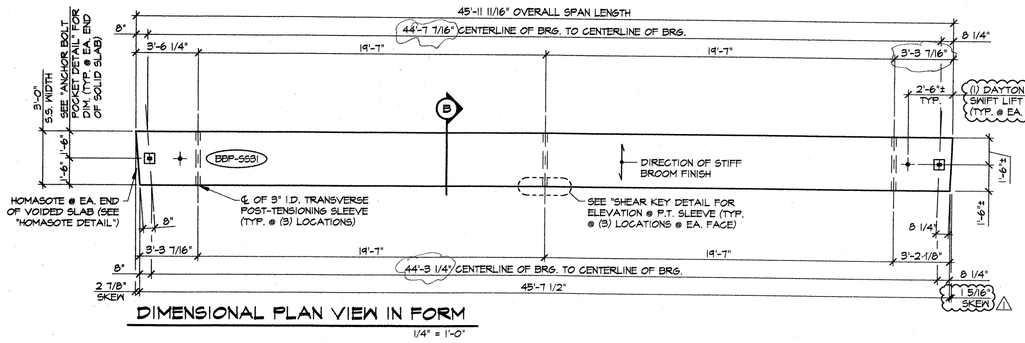
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



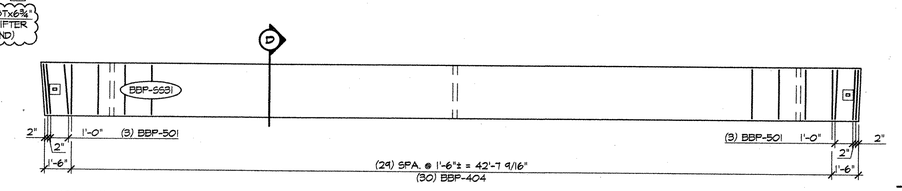
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



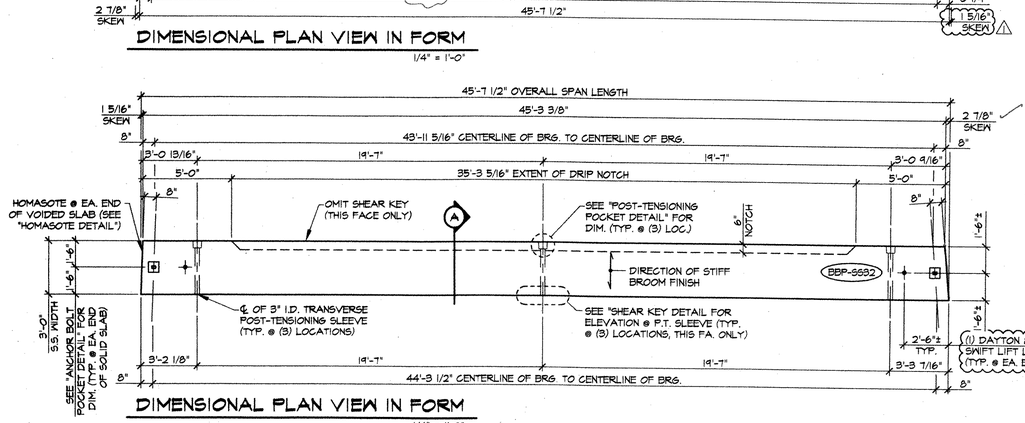
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



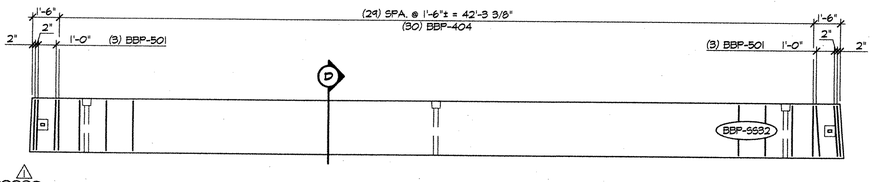
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



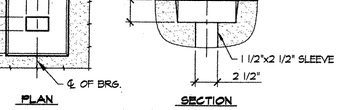
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



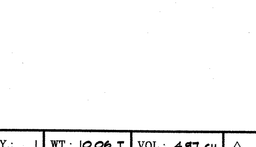
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



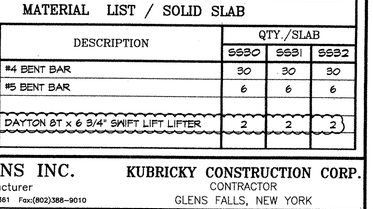
HOMASOTE DETAIL

3" = 1'-0"



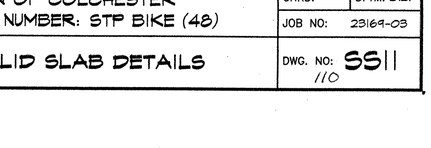
SHEAR KEY DETAIL

1/2" = 1'-0"



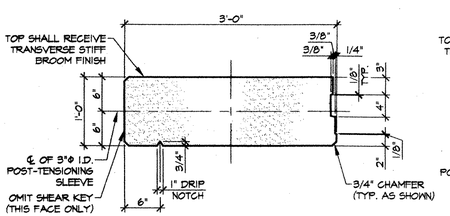
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



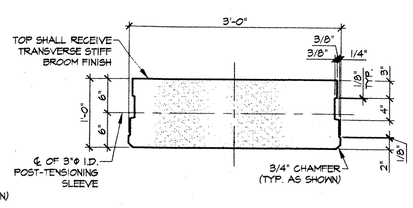
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



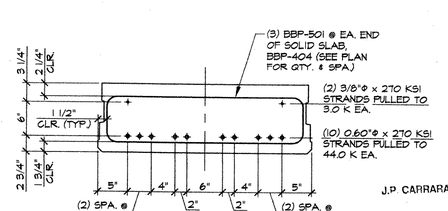
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



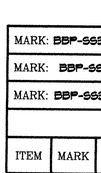
D REINFORCING SECTION

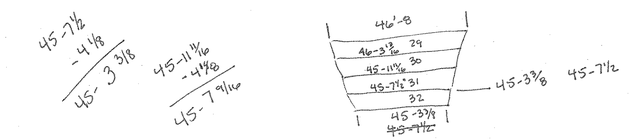
1" = 1'-0"

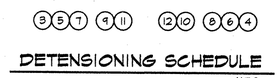
J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION







DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS30	QTY.: 1	WT.: 10.06 T	VOL.: 4.97 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS31	QTY.: 1	WT.: 9.98 T	VOL.: 4.93 cy	
MARK: BBP-SS32	QTY.: 1	WT.: 10.05 T	VOL.: 4.96 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS30	SS31	SS32
1	404	#4 BENT BAR	30	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠1	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠1 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY VEN OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

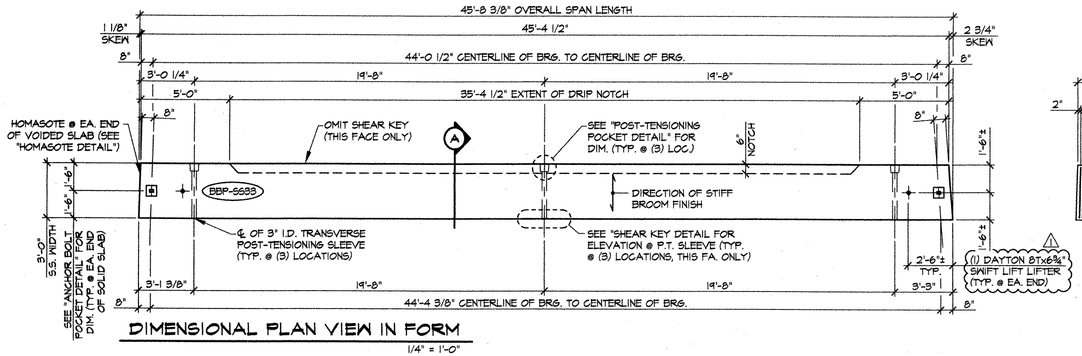
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

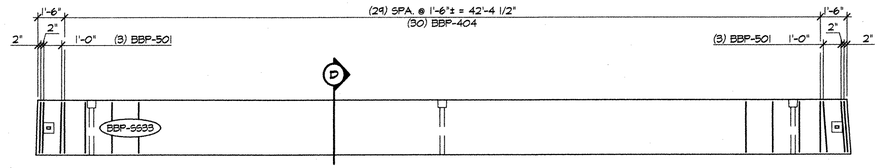
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS11 /10

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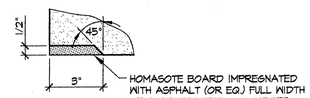
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM

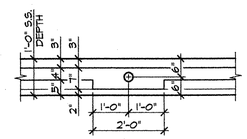
1/4" = 1'-0"



HOMASOTE BOARD IMPREGNATED WITH ASPHALT (OR EQ.) FULL WIDTH OF SLAB, FASTENED TO GIRDER (TYP. EA. END)

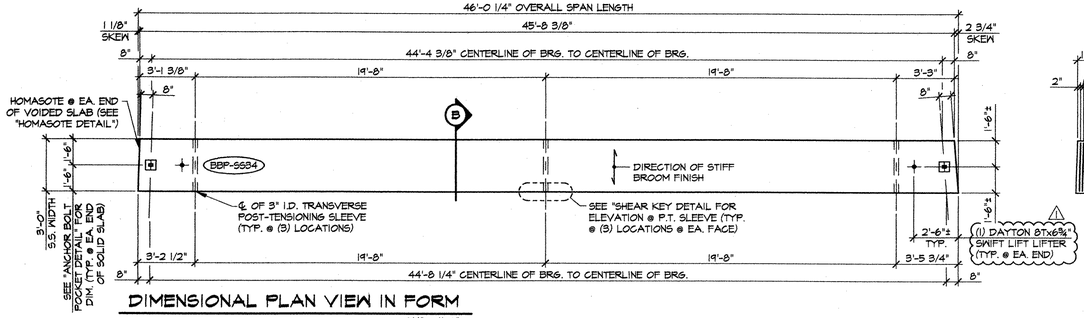
HOMASOTE DETAIL

3" = 1'-0"



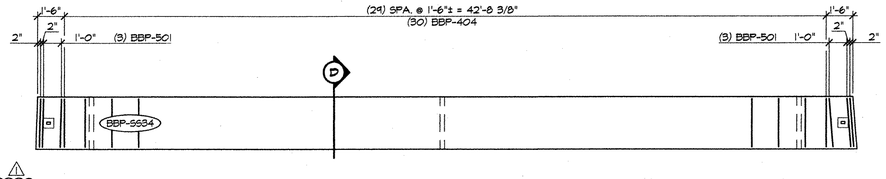
SHEAR KEY DETAIL

1/2" = 1'-0"



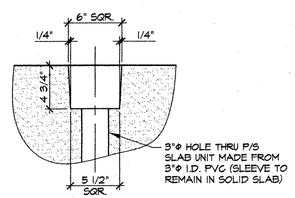
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



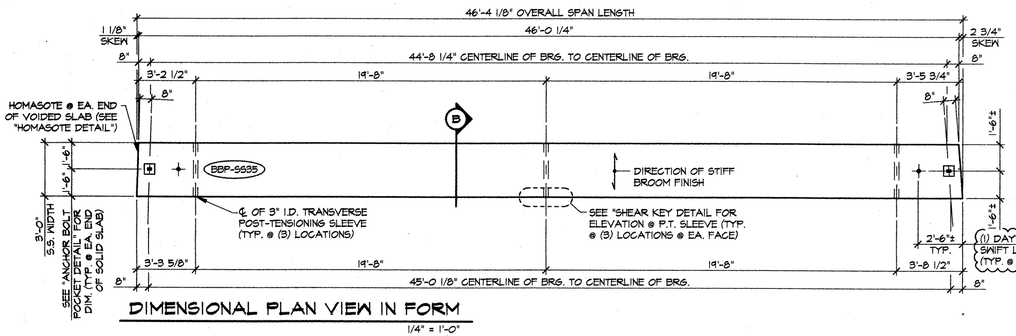
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



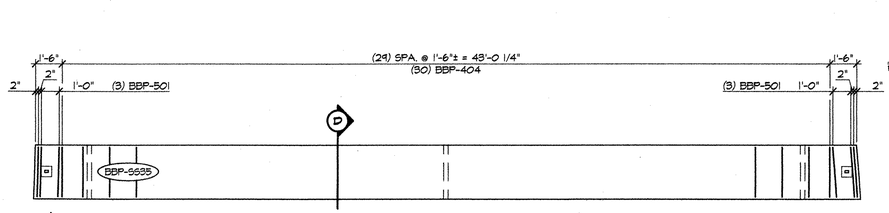
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



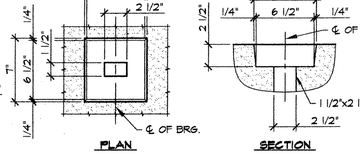
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



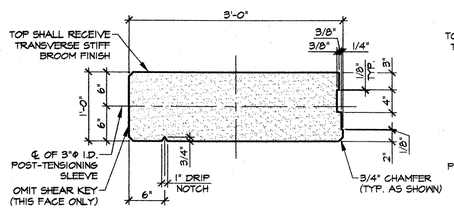
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



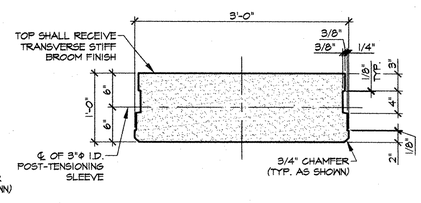
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



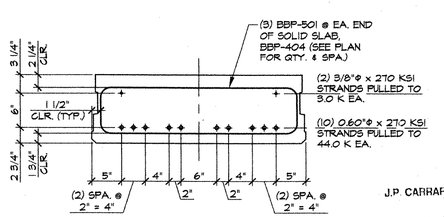
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



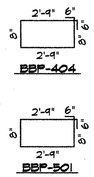
D REINFORCING SECTION

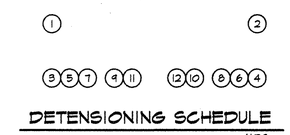
1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION





DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-5633	QTY.: 1	WT.: 10.07 T	VOL.: 4.97 cy	⚠1 f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-5634	QTY.: 1	WT.: 9.99 T	VOL.: 4.93 cy	
MARK: BBP-5635	QTY.: 1	WT.: 10.06 T	VOL.: 4.97 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB 5633	5634	5635
1	404	#4 BENT BAR	30	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠1	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠1 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY GM CK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

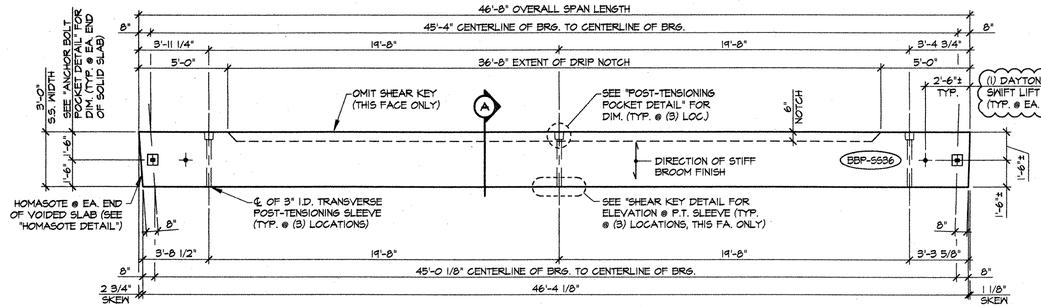
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

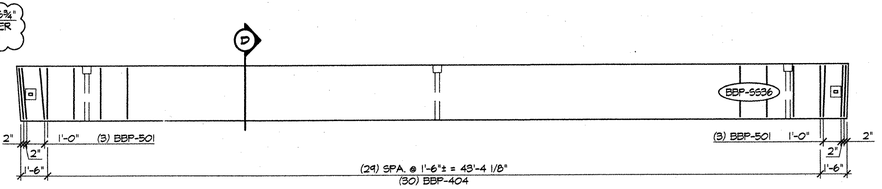
DATE: SEPT. 26, 2003
SCALE: NOTED
CHK'D: DFT'M: B.L.
JOB NO: 23169-03
DWG. NO: SS12
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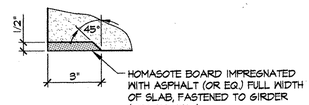
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM

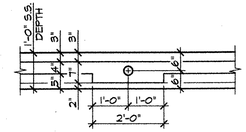
1/4" = 1'-0"



HOMASOTE BOARD IMPREGNATED WITH ASPHALT (OR EQ.) FULL WIDTH OF SLAB, FASTENED TO GIRDER (TYP. EA. END)

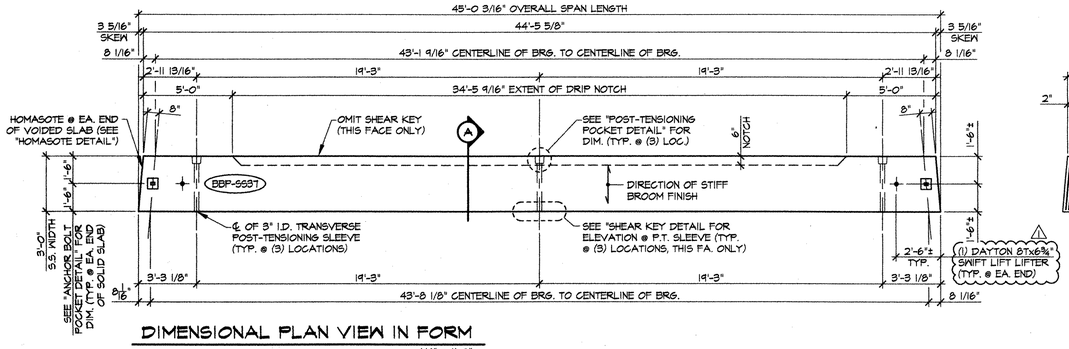
HOMASOTE DETAIL

3" = 1'-0"



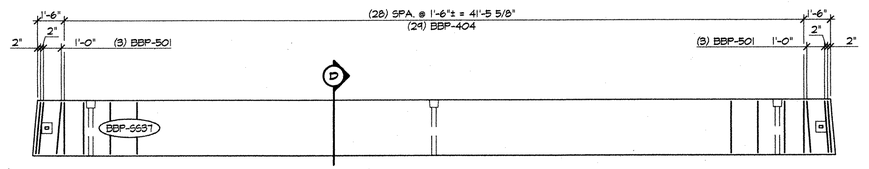
SHEAR KEY DETAIL

1/2" = 1'-0"



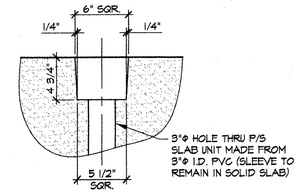
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



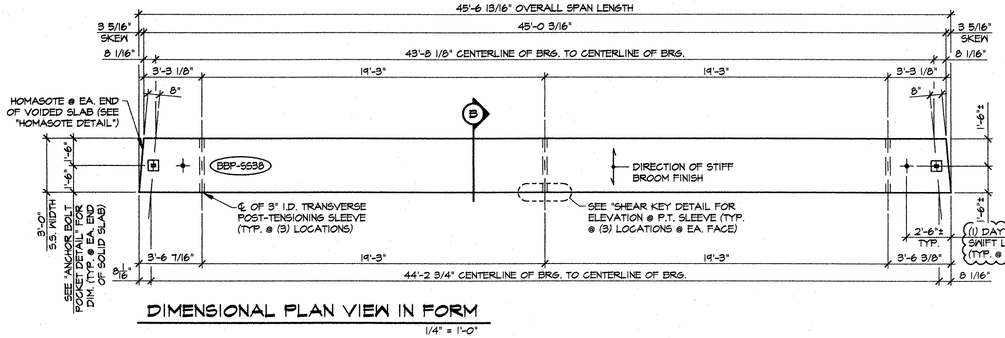
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



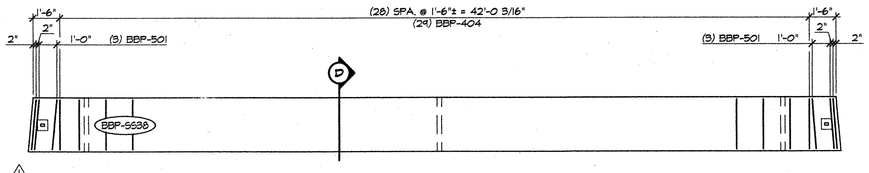
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



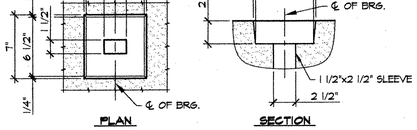
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



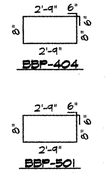
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



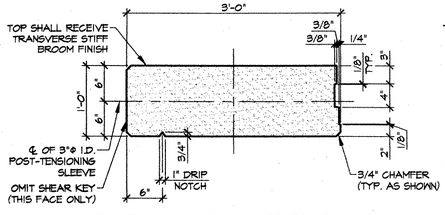
DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS36	QTY.: 1	WT.: 10.28 T	VOL.: 5.08 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS37	QTY.: 1	WT.: 9.90 T	VOL.: 4.89 cy	
MARK: BBP-SS38	QTY.: 1	WT.: 9.87 T	VOL.: 4.87 cy	

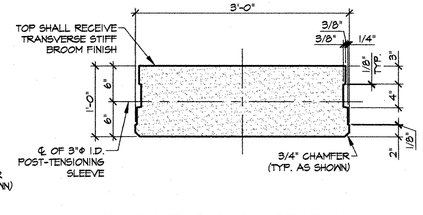
MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB		
			SS36	SS37	SS38
1	404	#4 BENT BAR	30	29	29
2	501	#5 BENT BAR	6	6	6
3					
4	⚠	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					



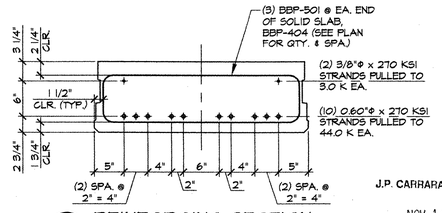
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



D REINFORCING SECTION

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY MW CK'D BY
NOV 14 2003
RESUBMIT APPROVED 2
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

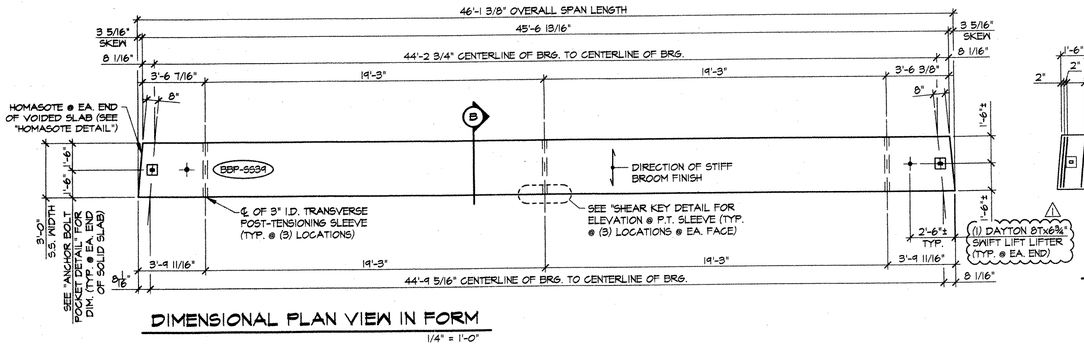
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

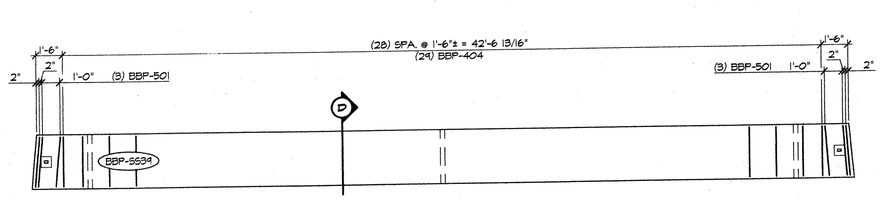
P/S SOLID SLAB DETAILS

DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS13
1/2

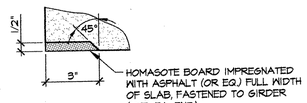
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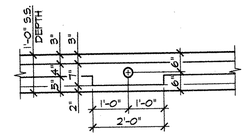
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



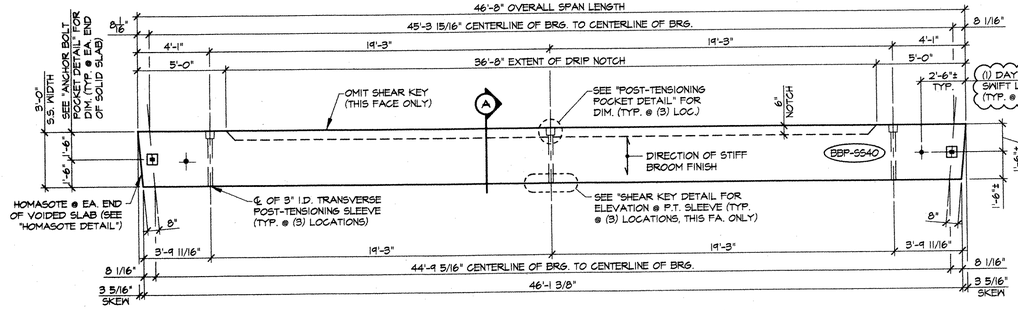
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



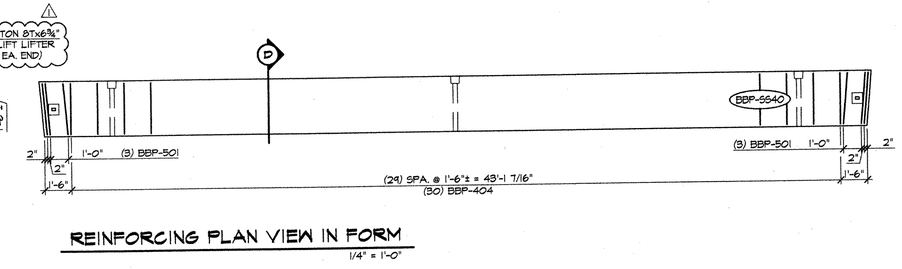
HOMASOTE DETAIL
3" = 1'-0"



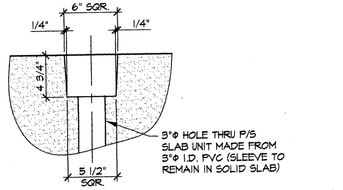
SHEAR KEY DETAIL
1/2" = 1'-0"



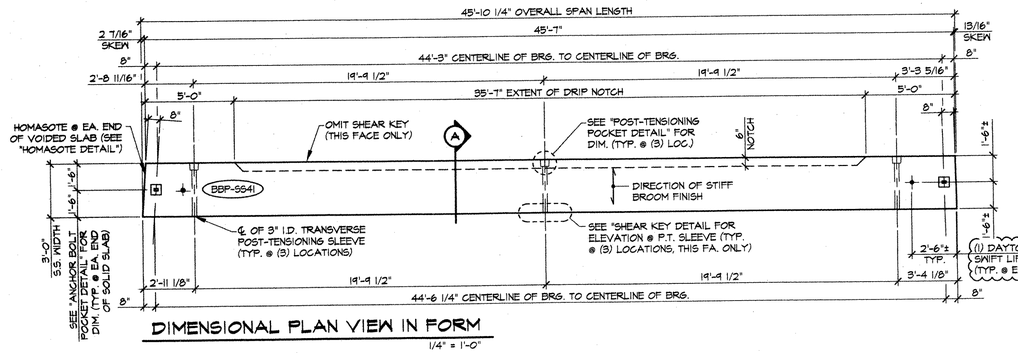
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



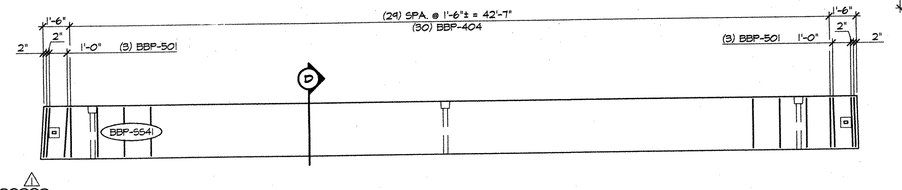
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



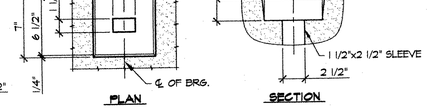
POST-TENSIONING POCKET DETAIL
1 1/2" = 1'-0"



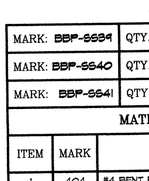
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



ANCHOR BOLT POCKET DETAIL
1 1/2" = 1'-0"

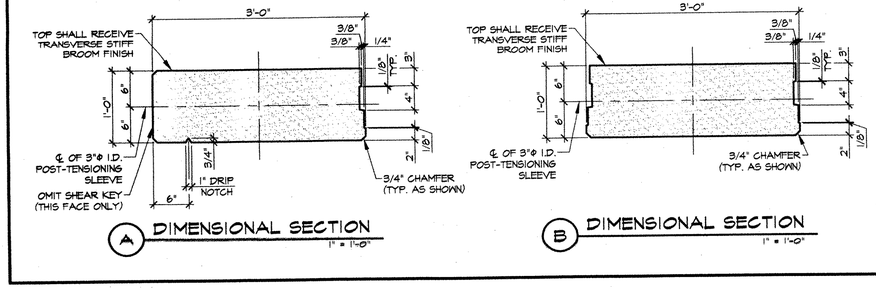


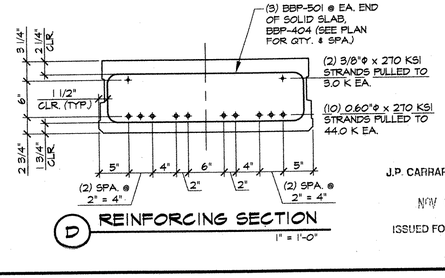
DETENSIONING SCHEDULE
N.T.S.

MARK: BBP-SS39	QTY.: 1	WT.: 9.99 T	VOL.: 4.93 cy	⚠ f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS40	QTY.: 1	WT.: 10.26 T	VOL.: 5.07 cy	
MARK: BBP-SS41	QTY.: 1	WT.: 10.11 T	VOL.: 4.99 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS39	SS40	SS41
1	404	#4 BENT BAR	29	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠1	DAYTON BT x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					





J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

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NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

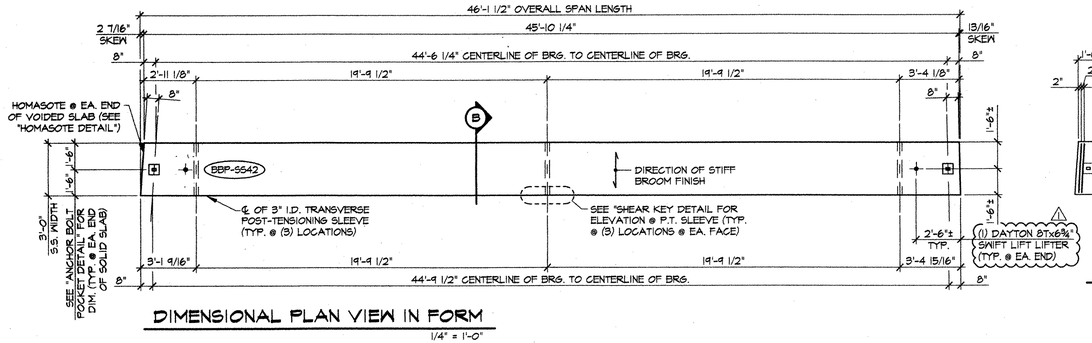
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

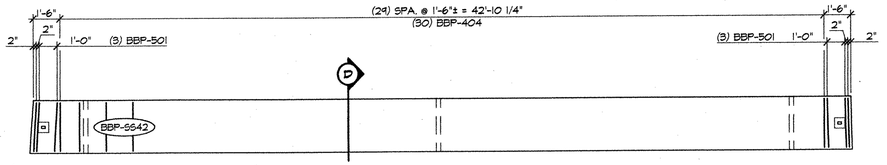
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS14
113

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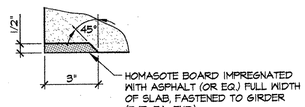
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



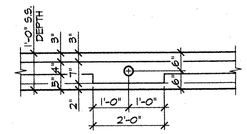
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



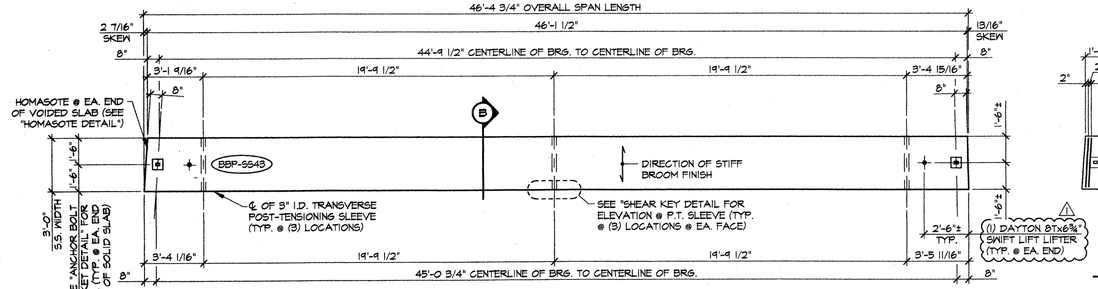
HOMASOTE DETAIL

3" = 1'-0"



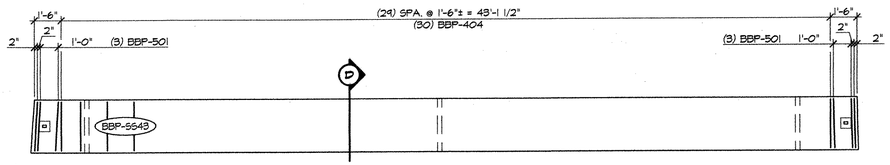
SHEAR KEY DETAIL

1/2" = 1'-0"



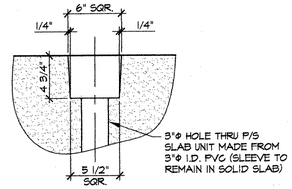
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



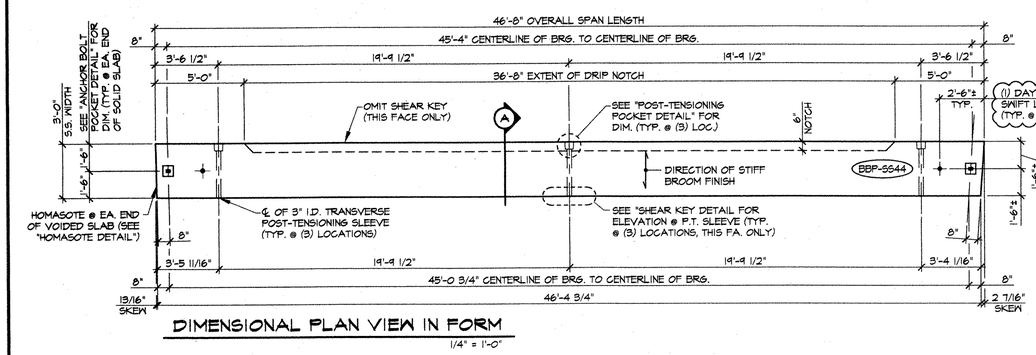
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



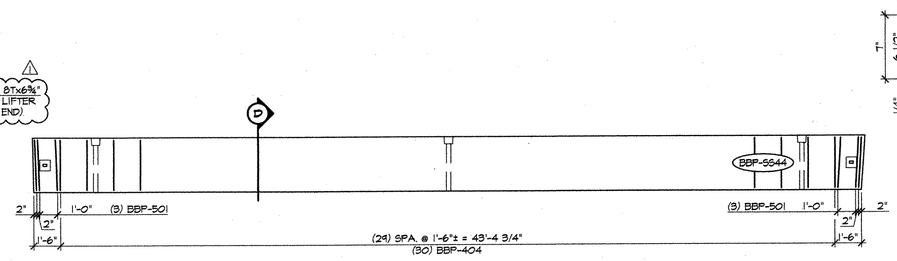
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



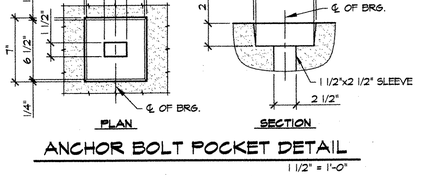
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



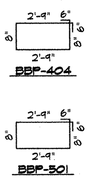
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



① ②

③ ⑤ ⑦ ⑨ ⑪ ⑫ ⑩ ⑧ ⑥ ④

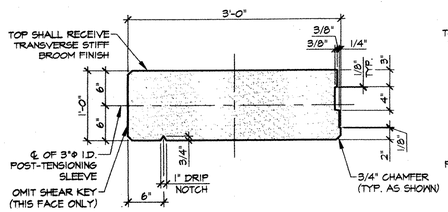
DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS42	QTY.: 1	WT.: 9.84 T	VOL.: 4.86 cy	⚠
MARK: BBP-SS43	QTY.: 1	WT.: 10.08 T	VOL.: 4.98 cy	P'ci = 4000 PSI P'c = 6000 PSI
MARK: BBP-SS44	QTY.: 1	WT.: 10.29 T	VOL.: 5.08 cy	

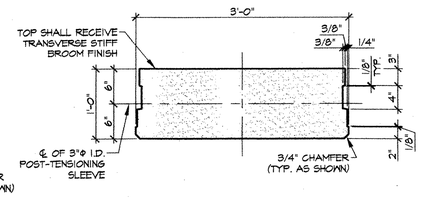
MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS42	SS43	SS44
1	404	#4 BENT BAR	30	30	30
2	501	#5 BENT BAR	6	6	6
3					
4	⚠	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					



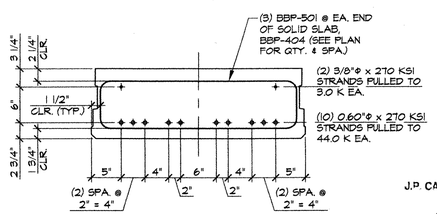
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



D REINFORCING SECTION

1" = 1'-0"

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
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NOV 14 2003
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APPROVED
BY
DATE 12/3/03

J.P. CARRARA & SONS, INC.
NOV 12 2003
ISSUED FOR PRODUCTION

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 OSE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

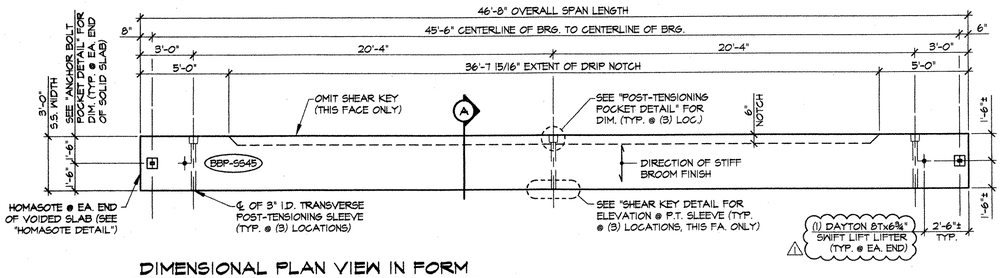
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

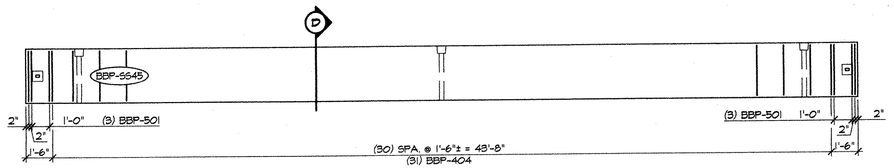
DATE: SEPT. 26, 2003
SCALE: NOTED
CHK'D: DFT'M: B.L.
JOB NO: 23169-03
DWG. NO: SS15
114

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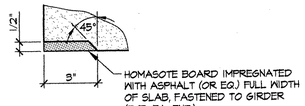
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



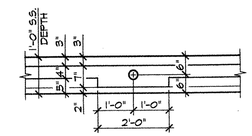
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



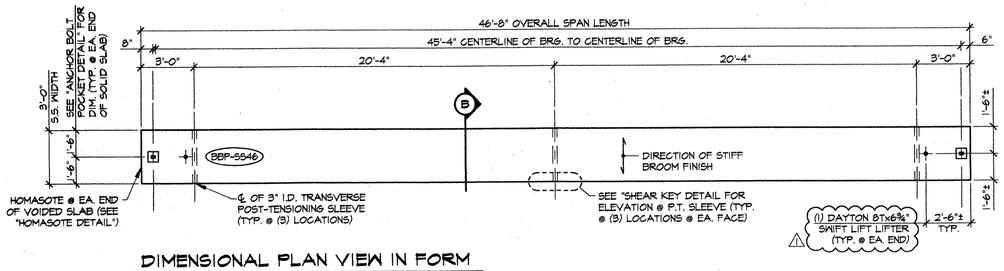
HOMASOTE DETAIL

3" = 1'-0"



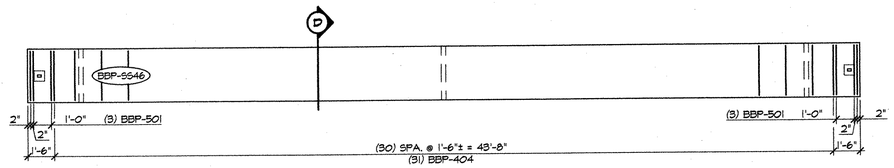
SHEAR KEY DETAIL

1/2" = 1'-0"



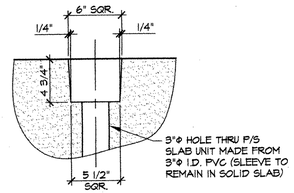
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



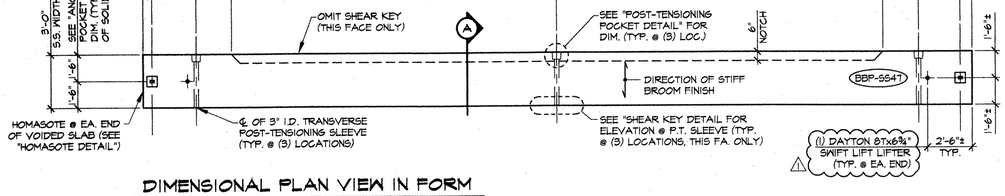
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



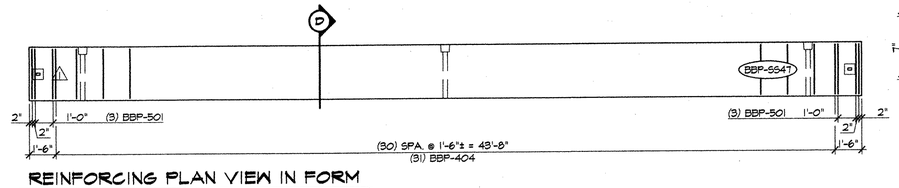
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



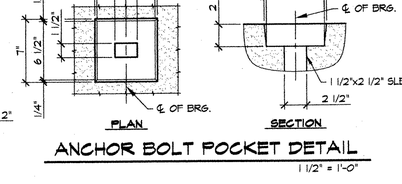
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



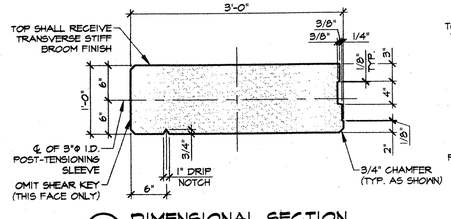
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



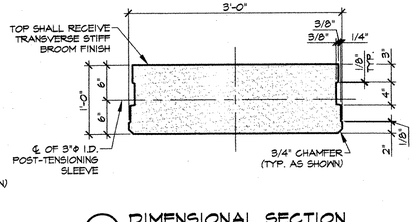
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



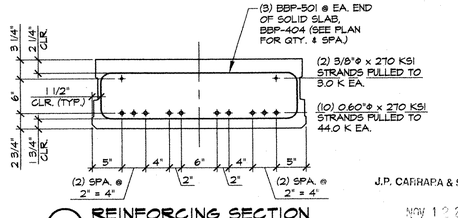
A DIMENSIONAL SECTION

1" = 1'-0"



B DIMENSIONAL SECTION

1" = 1'-0"



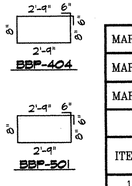
D REINFORCING SECTION

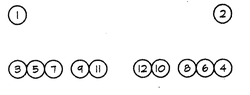
1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 1 2 2003

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DETENSIONING SCHEDULE

N.T.S.

MARK: BBP-SS45	QTY.: 1	WT.: 10.32 T	VOL.: 5.10 cy	⚠
MARK: BBP-SS46	QTY.: 2	WT.: 10.17 T	VOL.: 5.02 cy	f'ci = 4,000 PSI f'c = 6,000 PSI
MARK: BBP-SS47	QTY.: 1	WT.: 10.32 T	VOL.: 5.10 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB SS45	SS46	SS47
1	404	#4 BENT BAR	31	31	31
2	501	#5 BENT BAR	6	6	6
3					
4	⚠	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
OK'D BY YGM OK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/17/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2454 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

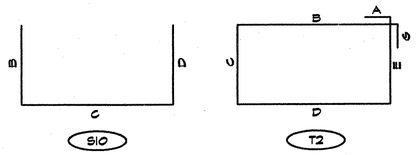
P/S SOLID SLAB DETAILS

DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS16
11/5

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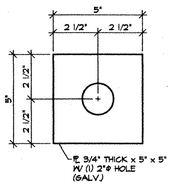
BENT BARS, TIES, & STIRRUPS

ITEM	MARK	QTY.	SIZE	LENGTH	TYPE	A	B	C	D	E	F/R	G	H	J	K	O	GRADE	REMARKS
1	401	468	#4	7'-11"	T2	6"	3'-0"	8"	3'-0"	8"		6"					60	
2	402	216	#4	3'-4 3/4"	S10		1'-6"	6 3/4"	1'-6"								60	
3	403	144	#4	5'-8 3/4"	S10		1'-6"	2'-10 3/4"	1'-6"								60	
4	404	5,256	#4	7'-3"	T2	6"	2'-9"	8"	2'-9"	8"		6"					60	
5																		
6	501	888	#5	7'-2 3/8"	T2	6"	2'-9"	8"	2'-9"	8"		6"					60	
7																		
8																		
9																		
10																		



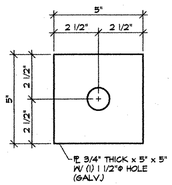
MISCELLANEOUS MATERIALS

ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1	EM-1	222	PL WASHER 3/4" x 5" x 5" W/ (1) 2"Φ HOLE (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
2	EM-3	368	PL WASHER 3/4" x 5" x 5" W/ (1) 1 1/2"Φ HOLE (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
3		222	SINGLE USE STRESSING CHUCK	FOR ERECTION
4		111	1/2"Φ x 14'-9" POLYSTRAND	FOR ERECTION
5		296	1 1/4"Φ x 1'-10" ANCHOR BOLT (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
6		72	1 1/4"Φ x 2'-6 1/2" ANCHOR BOLT (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
7				
8			⚠	
9		14	DAYTON 2T x 6 3/4" SWIFT LIFT LIFTER	
10	BBB-LI	144	DAYTON 2T x 6" (MIN.) SWIFT LIFT LIFTER (OR SIM.)	
11				
12				
13				
14				
15				



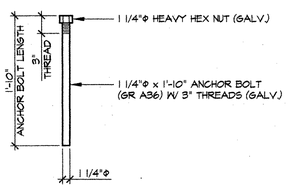
EM - 1

3" = 1'-0"



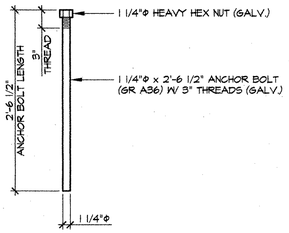
EM - 3

3" = 1'-0"



ANCHOR BOLT DETAIL

1" = 1'-0"



ANCHOR BOLT DETAIL

1" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

⚠ 11-11-03 REVISED AS NOTED

APPROVAL STAMP:

RECEIVED
CK'D BY IVG M CK'D BY
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DATE: SEPT. 26, 2003

SCALE: NOTED

TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

CHKD: DFTM: B.L.

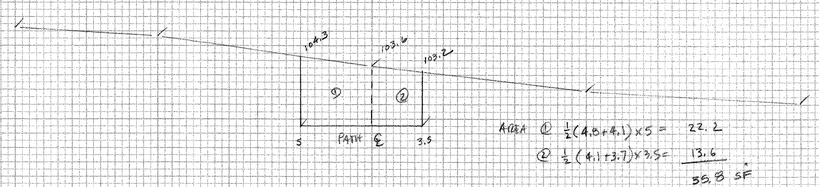
JOB NO: 23169-03

MATERIALS LIST

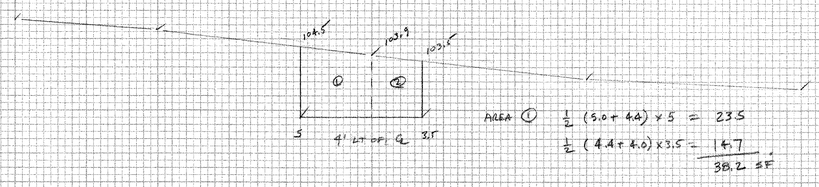
DWG. NO: M1
116

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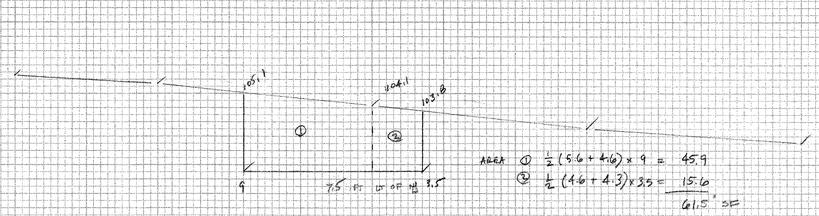
K-E Kuntzel & Esser Company PLATE 3, CROSS SECTION PLOTS Made in U.S.A.



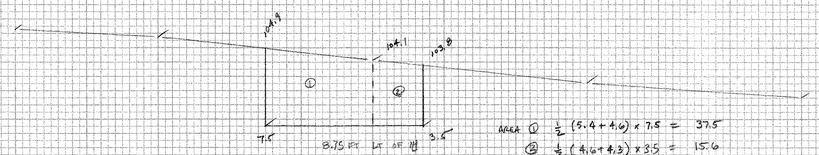
AREA ① $\frac{1}{2}(4.5+4.1)\times 5 =$ 22.2
② $\frac{1}{2}(4.1+3.7)\times 3.5 =$ 13.6
35.8 SF



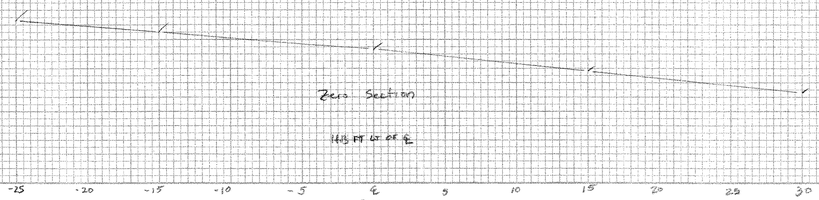
AREA ① $\frac{1}{2}(5.0+4.4)\times 5 =$ 23.5
$\frac{1}{2}(4.4+4.0)\times 3.5 =$ 14.7
38.2 SF



AREA ① $\frac{1}{2}(5.6+4.6)\times 9 =$ 45.9
② $\frac{1}{2}(4.6+4.3)\times 3.5 =$ 15.6
61.5 SF



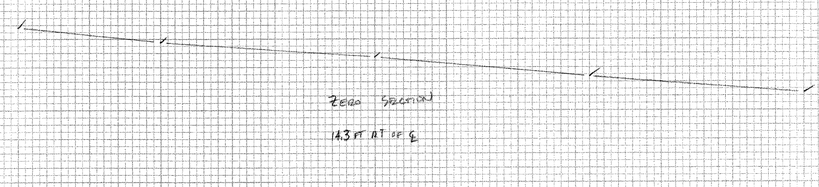
AREA ① $\frac{1}{2}(5.4+4.0)\times 7.5 =$ 37.5
② $\frac{1}{2}(4.6+4.3)\times 3.5 =$ 15.6
53.1 SF

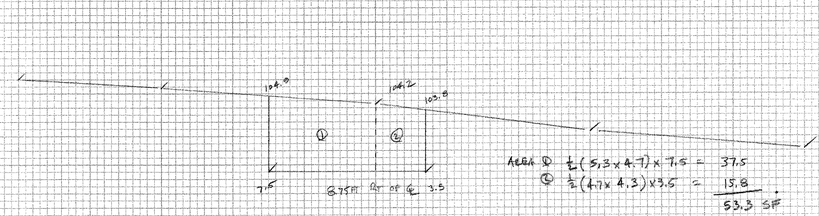


Plotted Sta ℄	Dist	Area, SF	Average Area, SF	Volume CF
19+00 LT	5.55	0	26.5	147.1
8+75 LT	1.25	53.1	57.3	71.6
7+50 LT	3.5	61.5	49.85	174.5
4+00 LT	4	38.2	37.0	148.0
0+00	4	35.8	37.85	151.4
4+00 RT	3.5	39.9	51.7	180.9
7+50 RT	1.25	63.5	58.4	73.0
8+75 RT	5.55	53.3	26.65	147.9
14+25 RT		0		1094.0 CF ÷ 27 = 40.5 CY

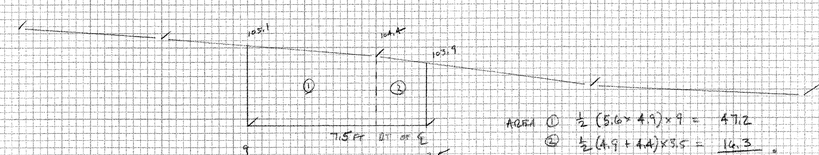
4+12.04

VS-25-04 SEH

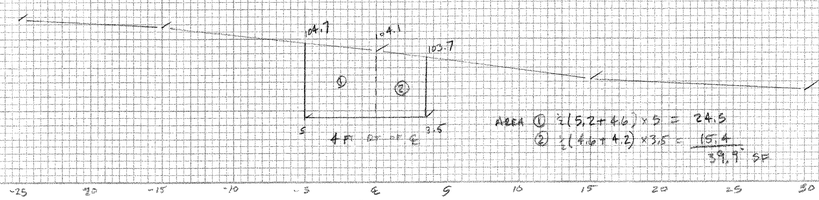




AREA ① $\frac{1}{2}(5.3\times 4.7)\times 7.5 =$ 37.5
② $\frac{1}{2}(4.7\times 4.3)\times 3.5 =$ 15.8
53.3 SF



AREA ① $\frac{1}{2}(5.6\times 4.9)\times 9 =$ 47.2
② $\frac{1}{2}(4.9+4.4)\times 3.5 =$ 16.3
63.5 SF



AREA ① $\frac{1}{2}(5.2+4.6)\times 5 =$ 24.5
② $\frac{1}{2}(4.6+4.2)\times 3.5 =$ 15.4
39.9 SF

COLCHESTER STP BIKE (48)
STRUCTURE SECTIONS
PATH ALIGNMENT NO 1

SHT 1 OF 2

117

1" = 5'

NO	MADE BOOK	CHECKED	DATE

Kruttel & Fessel Company PLATE 3. CROSS SECTION PLOTTED Made in U.S.A.

DATE	BY	
		ORIGINAL SURVEY
		DRAWN
		CHECKED
		FIELD BOOK
		NO.

Item 203.15 Common Excavation

Position From ℄	Dist, FT	Area, SF	Average Area, SF	Volume CF
14' LT		0		
	5.5		18.4	101.2
8.5' LT		36.8		
	1.5		34.1	51.2
7' LT		31.4		
	4		23.0	92.2
3' LT		14.7		
	3		17.8	53.4
℄		20.9		
	3		40.6	122.0
3' RT		60.4		
	4		72.0	288.2
7' RT		83.7		
	1.5		81.6	122.3
8.5' RT		79.4		
	5.5		39.7	218.4
14' RT		0		

1,084.9 CF

1,084.9 ÷ 27 = 38.8 CY

Item 204.25 Structure Excavation

Position From ℄	Dist, FT	Area, SF	Average Area, SF	Volume, CF
14 LT		0		
	5.5		23.1	127.0
8.5 LT		46.25		
	1.5		47.3	71.0
7 LT		48.4		
	4		40.8	163.2
3 LT		33.2		
	3		35.0	105.0
℄		36.8		
	3		40.4	121.2
3 RT		44.0		
	4		52.8	211.2
7 RT		61.6		
	1.5		59.2	88.9
8.5 RT		56.9		
	5.5		28.4	156.8
14 RT		0		

1,044.0 CF

1,044.0 ÷ 27 = 38.7 CY

Area = 1/2 (6.6 + 4.4) x 8 = 44.0 SF

3 FT RT OF ℄

Area = 1/2 (5.1 + 4.1) x 8 = 36.9 SF

℄ OF PATH

Area = 1/2 (4.5 + 3.8) x 8 = 33.2 SF

3 FT LT OF ℄

Area ① 1/2 (4.5 + 3.8) x 8 = 33.2
② 3.8 x 4 = 15.2
48.4 SF

7 FT LT OF ℄

Area ① 1/2 (4.6 + 9) x 8 = 38.4
② 1/2 (4.0 + 3.9) x 3 = 11.85
46.25 SF

8.5 FT LT OF ℄

Area ① 1/2 (7.2 + 4.1) x 8 = 45.2
② 1/2 (4.1 + 1.7) x 3 = 11.7
56.9 SF

8.5 FT RT OF ℄

Area ① 1/2 (7.25 + 4.2) x 8 = 46.9
② 1/2 (4.2 + 3.8) x 4 = 16.0
62.9 SF

14 FT RT OF ℄

Colchester STP 0166 (48) SHT 2 of 2
Structure Sections
Path Abutment No 2

118

1" = 5'

Approved 12-15-04 SEN

Approved 1-5-05 SEN