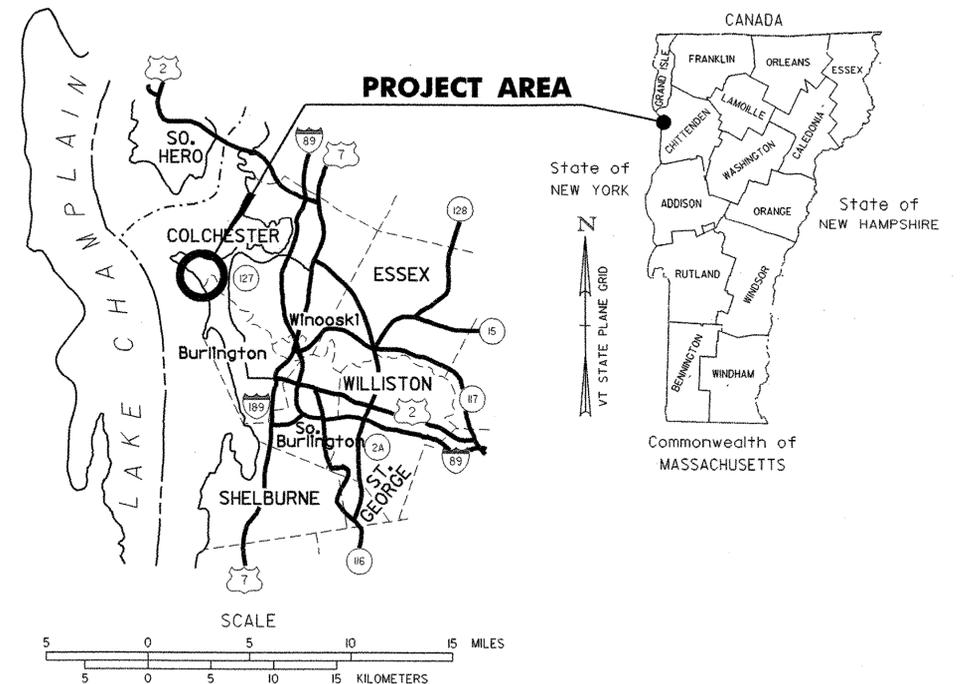


STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF COLCHESTER COUNTY OF CHITTENDEN

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 CONSTRUCTION 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.	



PROJECT LOCATION

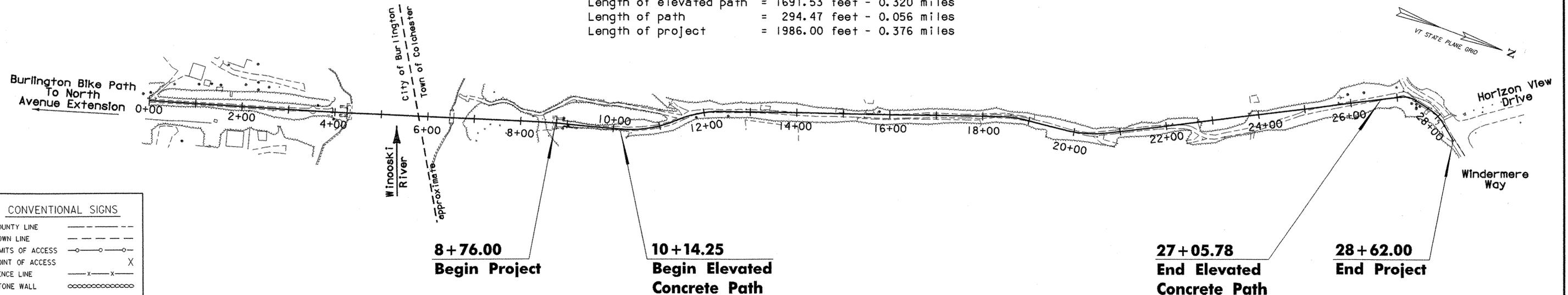
Beginning in Colchester at a point on the existing bike path approximately 2176 feet northerly of the intersection of the bike path and North Avenue Extension, and extending northerly approximately 1986 feet to the intersection of Windermere Way and Horizon View Drive in the Town of Colchester.

PROJECT DESCRIPTION

Work to be performed under this project includes the construction of a new shared-use path.

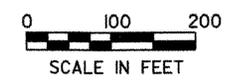
Length of elevated path = 1691.53 feet - 0.320 miles
 Length of path = 294.47 feet - 0.056 miles
 Length of project = 1986.00 feet - 0.376 miles

Lake Champlain



CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○—○—○—○
POINT OF ACCESS	X
FENCE LINE	-x-x-x-
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	—SR—
SLOPE RIGHTS	○—△—
TOP OF CUT	—△—△—
TOE OF SLOPE	—○—○—

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (96)



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 2/17/07
PROJECT MANAGER : CRAIG KELLER	
PROJECT NAME :	Colchester
PROJECT NUMBER :	STP Bike (48)
SHEET 1 OF 87 SHEETS	

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2.	INDEX OF SHEETS
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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
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41.	PILE CAP AND BEAM DETAILS
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43.	PRESTRESS DETAILS, SPANS 1, 2, AND 3
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45.	PRESTRESS DETAILS, SPAN 5
46.	PRESTRESS DETAILS, SPAN 6
47.	PRESTRESS DETAILS, SPANS 7-18, 21 AND 25-37
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52.	PRESTRESS DETAILS, SPAN 24
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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	PLOT DATE:	07/22/2003
PROJECT NUMBER:	STP BIKE (48)	DRAWN BY:	M.E.M.
FILE NAME:		CHECKED BY:	M.E.M.
DESIGNED BY:	M.E.M.	INDEX OF SHEETS #1	SHEET 2 OF 87

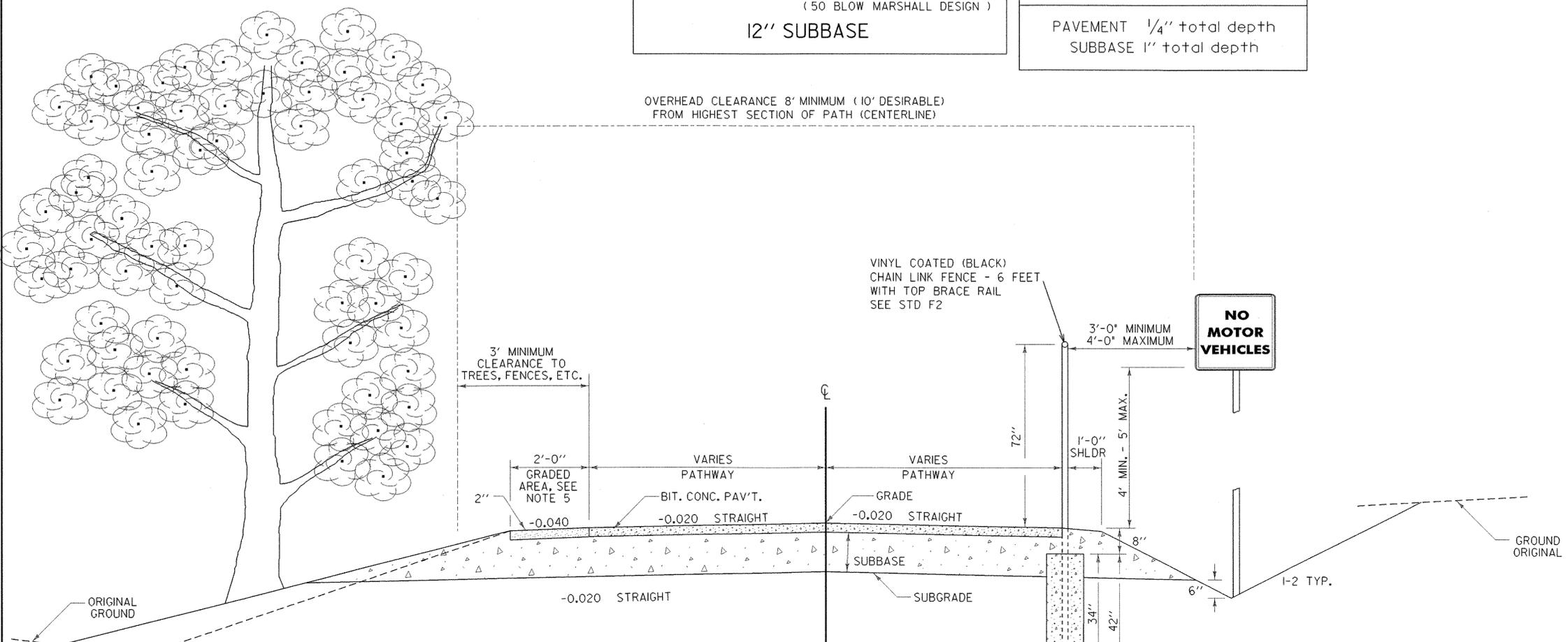
2" BIT. CONC. PAV'T. TYPE III
(50 BLOW MARSHALL DESIGN)
12" SUBBASE

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

GENERAL NOTES

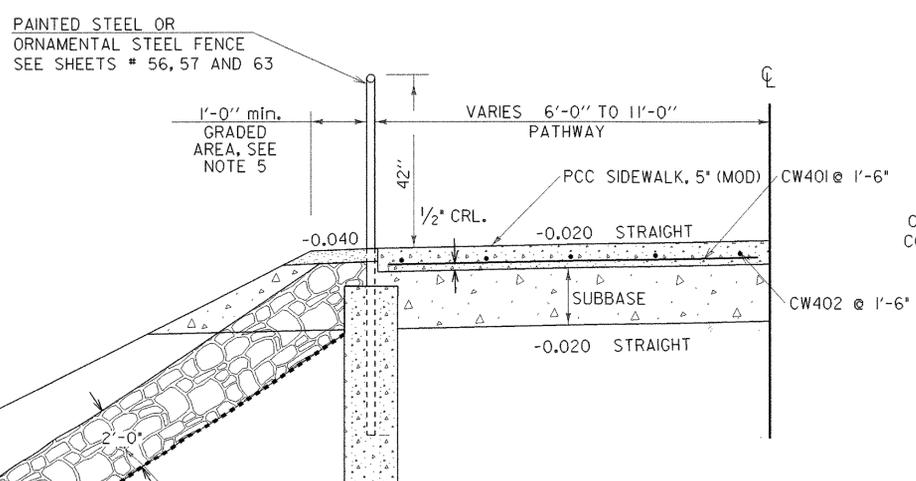
- 1.) ALL DESIGN SHALL BE IN ACCORDANCE WITH THE VAOT "GUIDE FOR DEVELOPMENT OF BICYCLE FACILITIES", SEPT. 1994, OR LATEST REVISION.
- 2.) GEOTEXTILE FABRIC MAY BE USED BELOW THE SUBBASE MATERIAL WHEN CONDITIONS WARRANT.
- 3.) ALL SHARED USE PATHS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). REFER TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY 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".

OVERHEAD CLEARANCE 8' MINIMUM (10' DESIRABLE)
FROM HIGHEST SECTION OF PATH (CENTERLINE)

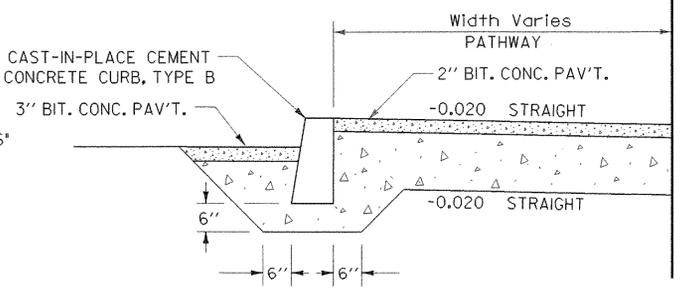


NORMAL SECTION IN FILL
LIMITS OF APPLICABILITY
STA. 27+40 TO 28+25

NORMAL SECTION WITH FENCE
LIMITS OF APPLICABILITY
STA. 27+05 TO 27+40



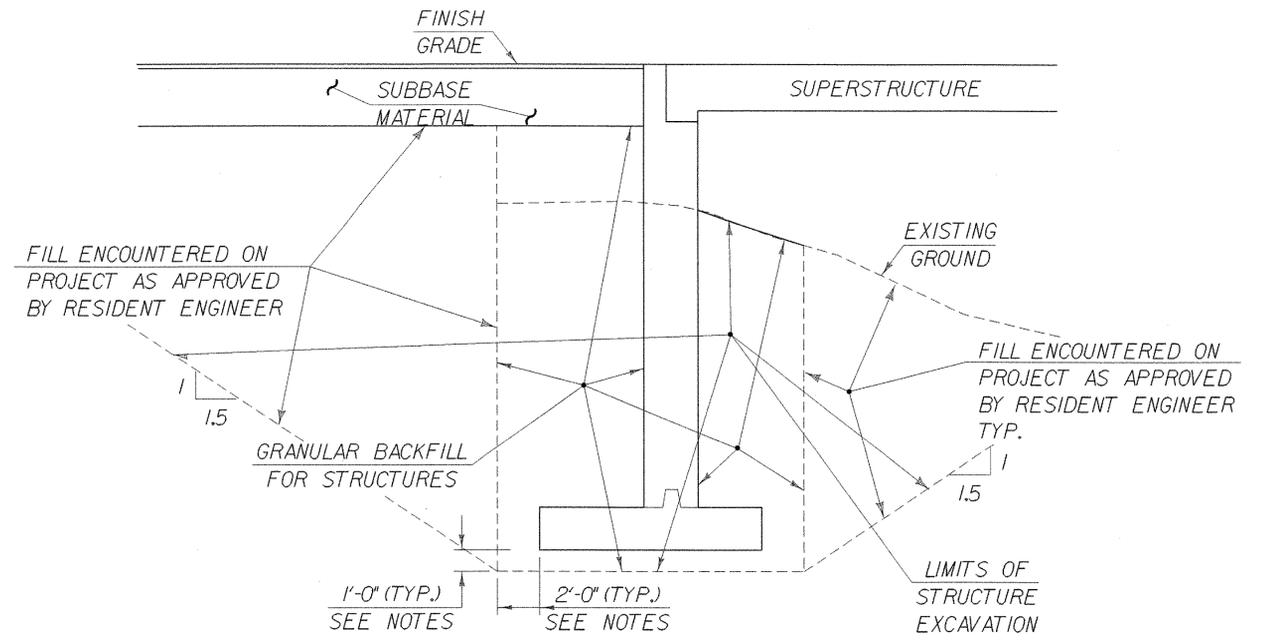
CAST-IN-PLACE CONCRETE
SECTION W/ STEEP SIDESLOPES
LIMITS OF APPLICABILITY
STA. 8+75 TO 12+04.23



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

SHARED USE PATH TYPICAL

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)
FILE NAME: /s/r5/03f038/sf038+yp.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY: M.E.M.
sf038+yp.i	SHEET 3 OF 87



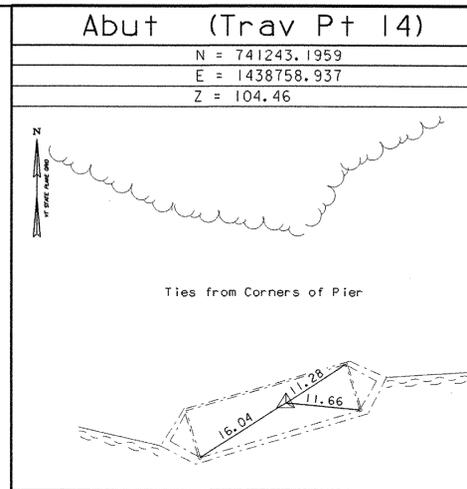
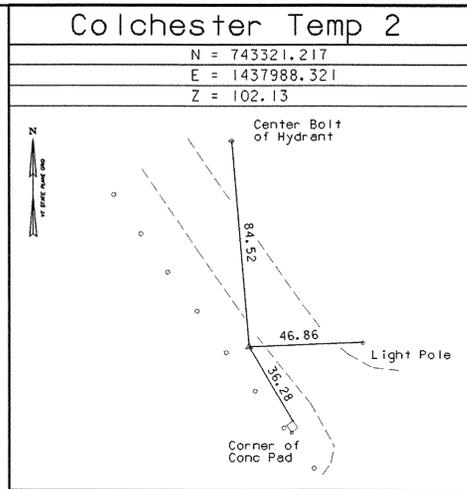
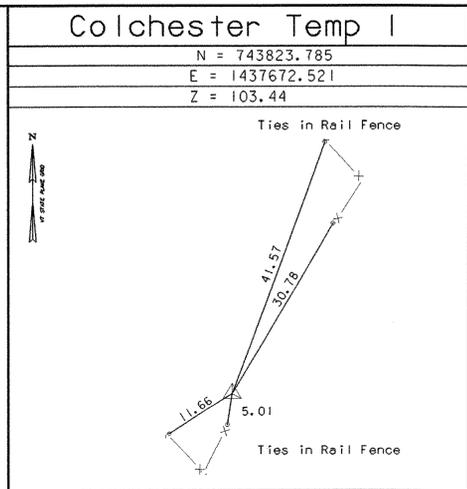
TYPICAL ABUTMENT SECTION
(NOT TO SCALE)

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.

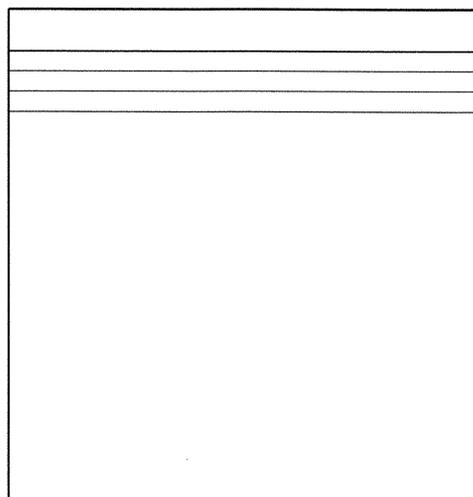
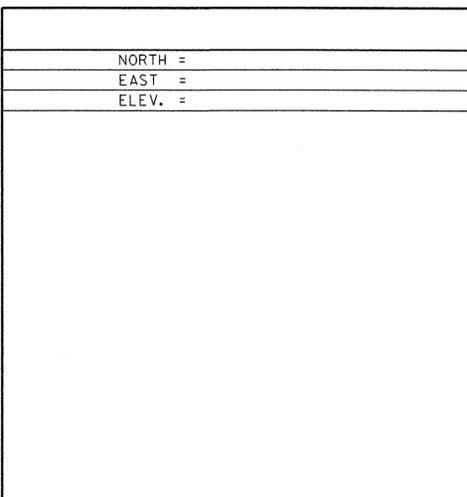
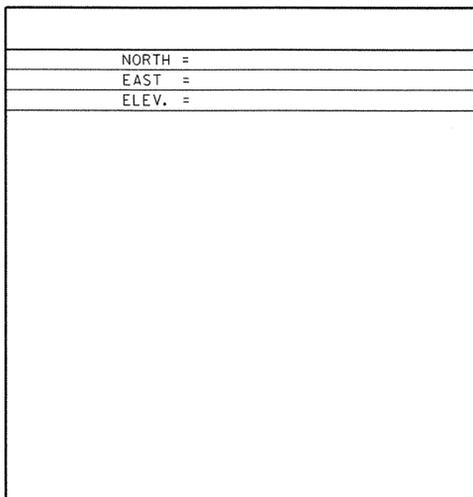
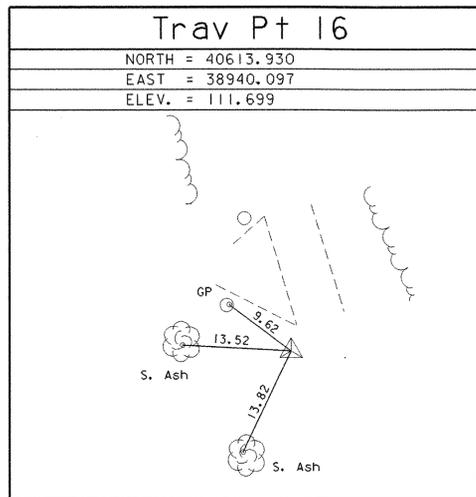
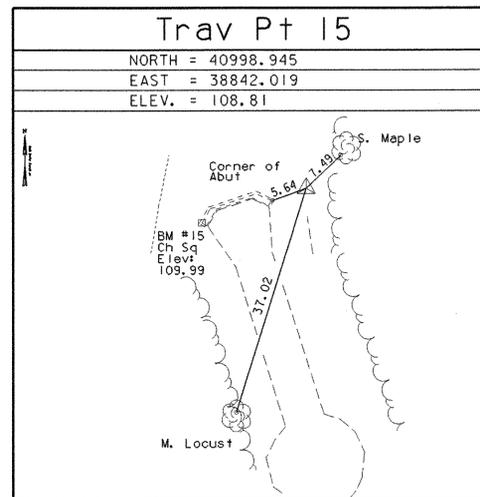
STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	COLCHESTER	Bridge No.	sf038btyp1
Highway No.	BIKE PATH	Log Sta.	
		Surv. Sta.	
ABUTMENT EARTHWORK DETAILS AND TRUSS TYPICAL SECTION			
Designed By	M.EVANS-MONGEON	Drawn By	M.EVANS-MONGEON
Checked By	Date	Bridge Design Supervisor	C.KELLER Date
PROJECT	COLCHESTER	PROJECT NO.	STP BIKE (48)
I.G.C. InRoads_cadd\Filingcablnet\03f038\Structures\sf038subdgn sf038btyp1			
Bridge Sheet No.		Sheet	4 of 87

GPS CONTROL POINTS



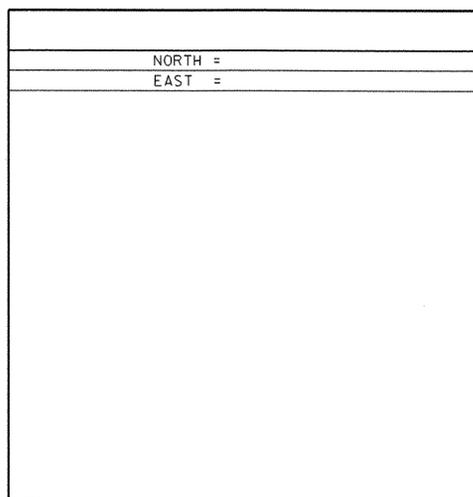
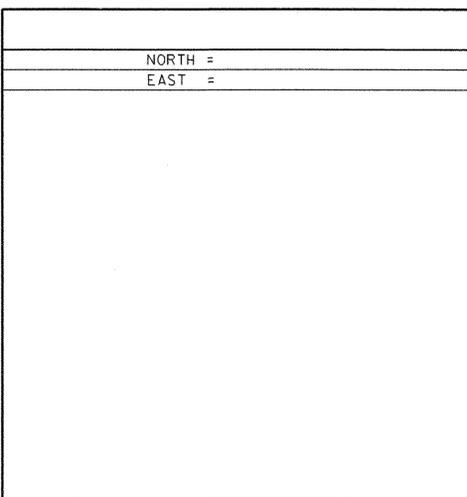
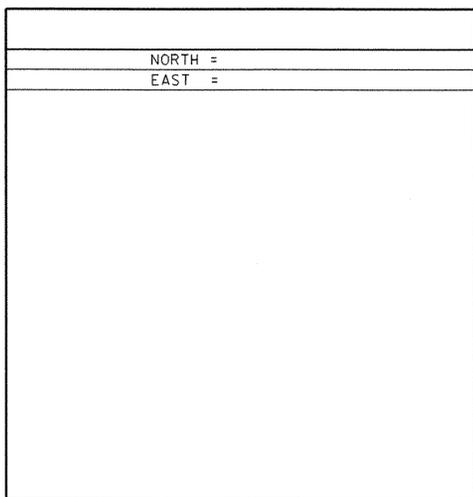
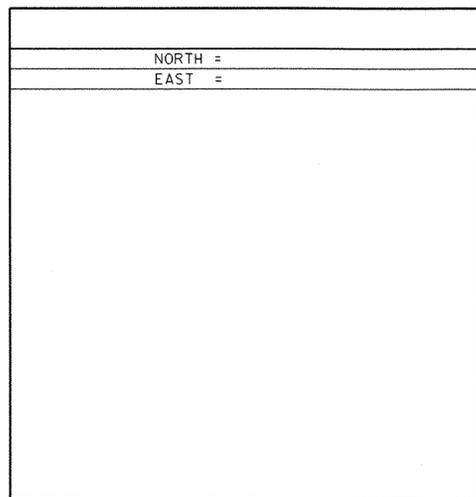
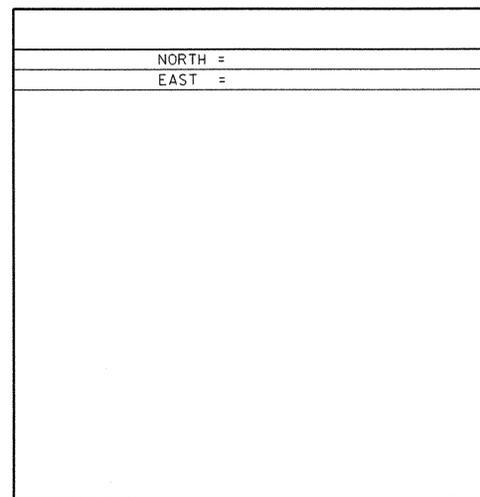
• TO ALLOW THE STATE PLANE COORDINATES TO FIT THE AGENCY DESIGN PLANE, SUBTRACT 700,000 FROM THE NORTHING AND SUBTRACT 1,400,000 FROM THE EASTING.
 • NO DESCRIPTIONS WERE PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT FOR THESE MARKS AS THEY ARE CONSIDERED TEMPORARY

TRAVERSE TIES



• MAIN TRAVERSE COMPLETED 8/15/01 by L. Orvits P.C. J. Hulet & T. Wilson

ALIGNMENT TIES



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (96)
ADJUSTMENT	none

PROJECT NAME:	Colchester	PLOT DATE:	05-AUG-2003
PROJECT NUMBER:	STP BIKE (48)	DRAWN BY:	R. Bullock
FILE NAME:	01f132/survey/xf132t1.dgn	CHECKED BY:	
PROJECT LEADER:	C. S. Keller	SHEET	7 OF 87
DESIGNED BY:	sf038tie.l		

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES													TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
																UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
																SF	TRAFFIC SIGNS, TYPE A	675.20			
																EACH	REMOVING SIGNS	675.50			
																LF	FLANGED CHANNEL SIGN POST	675.301			
																EACH	RELOCATE INFORMATION PLAZA, TYPE A (MOD)	680.40			
																	ALTERNATE 1 ITEMS				
																LF	METAL HAND RAILING (MOD) (FASCIA MOUNTED PAINTED STEEL) - ALTERNATE 1	525.15			
																LF	CHAIN LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1	620.12			
																LF	GATE FOR CHAIN-LINK FENCE, 6 FEET (MOD.) (PAINTED STEEL) - ALTERNATE 1	620.16			
																	ALTERNATE 2 ITEMS				
																LF	METAL HAND RAILING (MOD.) (TOP MOUNTED ORNAMENTAL STEEL) - ALTERNATE 2	525.15			
																LF	CHAIN LINK FENCE, 6 FEET (MOD.) (ORNAMENTAL STEEL) - ALTERNATE 2	620.12			
																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: sft132quant.xls PLOT DATE: 07/30/2003
 PROJECT LEADER: C. KELLER DRAWN BY: J. GEORGE
 DESIGNED BY: J. GEORGE CHECKED BY: M.E.M.
 QUANTITY SHEET #2 SHEET 9 OF 87

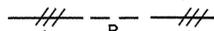
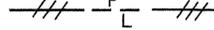
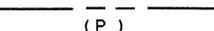
**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

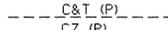
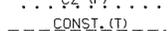
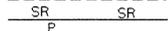
TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1A	WINOOSKI VALLEY PARK DISTRICT	5	3+53 RT. 2+90 RT. 4+10 RT.				INSTALL (T) RESET (T) ALL R.T. & I.			BURLINGTON			SIGN KIOSK ABUTMENT			ELECTRONIC IPARMS TO STRUCTURES	10-15-02		
1B		5-9	6+47 RT. 6+47 RT. 6+47 RT. 6+47 LT. 7+00 LT. 7+17 LT. 7+59 LT. 8+46 LT. 8+60 LT. 8+69 RT. 8+80 LT. 8+92 RT. 8+97 LT. 9+10 LT. 10+10 RT. 10+11 LT. 10+38 RT. 11+53 LT. 12+21 RT. 15+46 LT. 15+48 LT. 22+68 CL. 23+79 LT. 26+56 LT. 26+65 LT. 26+68 LT.	6+56 LT. 27+07 LT. 19+77 RT. 10+42 LT. 11+54 LT. 8+93 RT. 10+18 RT. 10+28 LT. 10+15 RT. 10+14 LT. 15+68 LT. 15+79 LT. 22+72 LT. 23+88 LT. 27+14 LT. 26+71 LT. 27+13 LT.			ALL R.T. & I. EASEMENT (P) 0.77A± CONST. (T) 0.27A± CONST. (T) 0.20A± REMOVE (T) REMOVE (T) REMOVE (T) REMOVE (T) ACCESS (T) 0.10A± ALL R.T. & I. REMOVE (T) SLOPE (P) 710 S.F.± SLOPE (P) 875 S.F.± REMOVE & RESET (T) INSTALL & MAINT. (P) INSTALL & MAINT. (P) REMOVE (T) REMOVE (T) REMOVE (T) REMOVE (T) CONST. (T) 135 S.F.± REMOVE (T) REMOVE (T) CONST. (T) 320 S.F.± INSTALL & MAINT. (P) SLOPE (P) 120 S.F.±			COLCHESTER			PIER 33,370 S.F.± TRANSPORTATION PATH 11,910 S.F.± INCLUDES EROSION CONTROL & CONSTRUCTION ACCESS 8,650 S.F.± INCLUDES EROSION CONTROL & CONSTRUCTION ACCESS KIOSK, SEE GENERAL NOTES SIGN SIGN SIGN SIGN 4,370 S.F.± INCLUDES EROSION CONTROL ABUTMENT SIGN FOSSIL ROCK SEE GENERAL NOTES ABUTMENT #1 ABUTMENT #1 SIGN SIGN SIGN SIGN RAISED WOODEN LOOKOUT INCLUDES EROSION CONTROL BOLLARD FENCE BOLLARD FENCE INCLUDES EROSION CONTROL ABUTMENT #2						

ACCT.mcassidy
\\vaot.cadd\fillingcabinet\01f132\RightOfWay\rf132.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

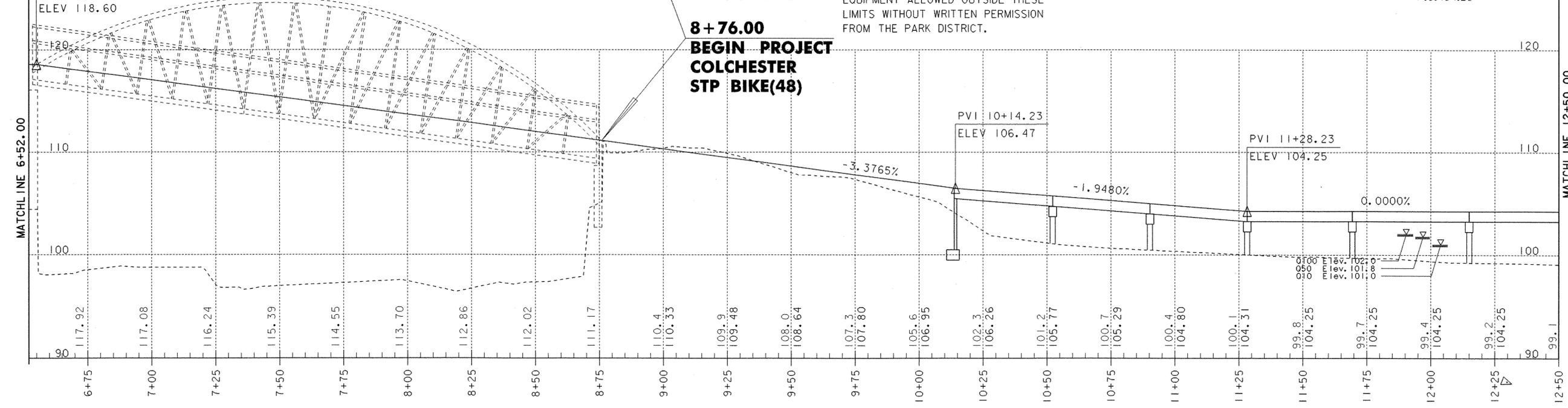
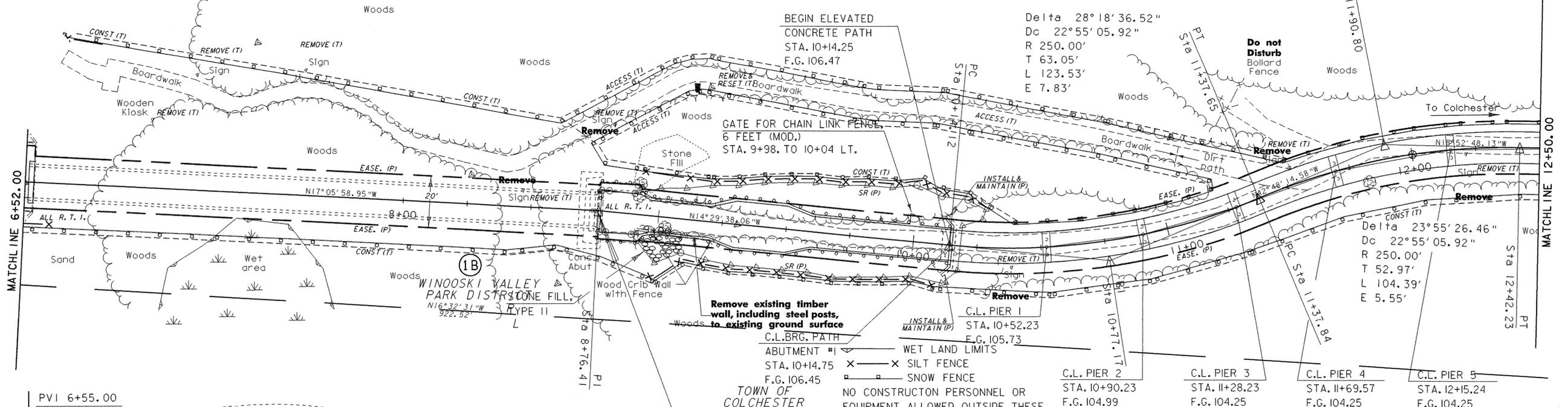
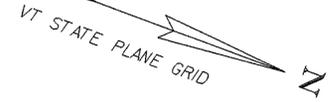
LEGEND
 CLEARING & TRIMMING
 CLEAR ZONE
 CONSTRUCTION EASEMENT
 SLOPE RIGHTS
 PROPERTY LINE
 TOP OF CUT
 TOE OF SLOPE

..UE..(P).. PERMANENT UTILITY EASEMENT
 APPROVED: ROGER P. DUMAS DATE: 10-01-02
 CHIEF, PLANS & TITLES

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

WINOOSKI VALLEY PARK DISTRICT
 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.

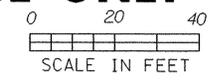
WINOOSKI VALLEY PARK DISTRICT
 (1B)



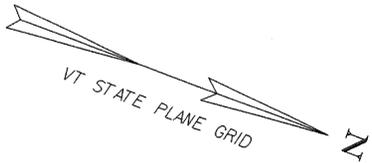
**8+76.00
 BEGIN PROJECT
 COLCHESTER
 STP BIKE(48)**

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

**FOR R.O.W.
 USE ONLY**

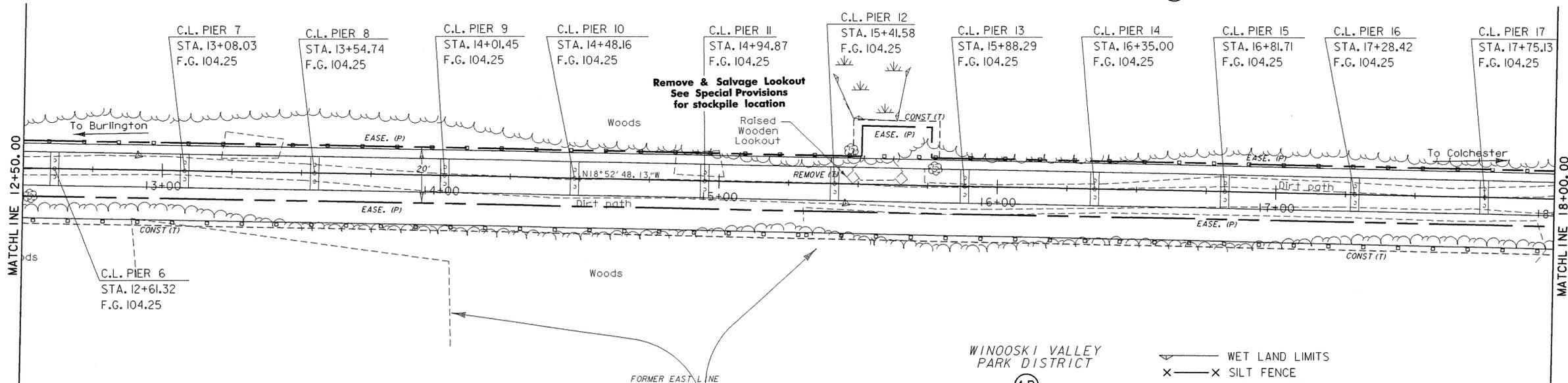


PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)
FILE NAME: \\str5\01f132\sf132bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
R. O. W. SHEET 6 OF 9 SHEETS	SHEET 17 OF 87



WINOOSKI VALLEY
PARK DISTRICT

(1B)

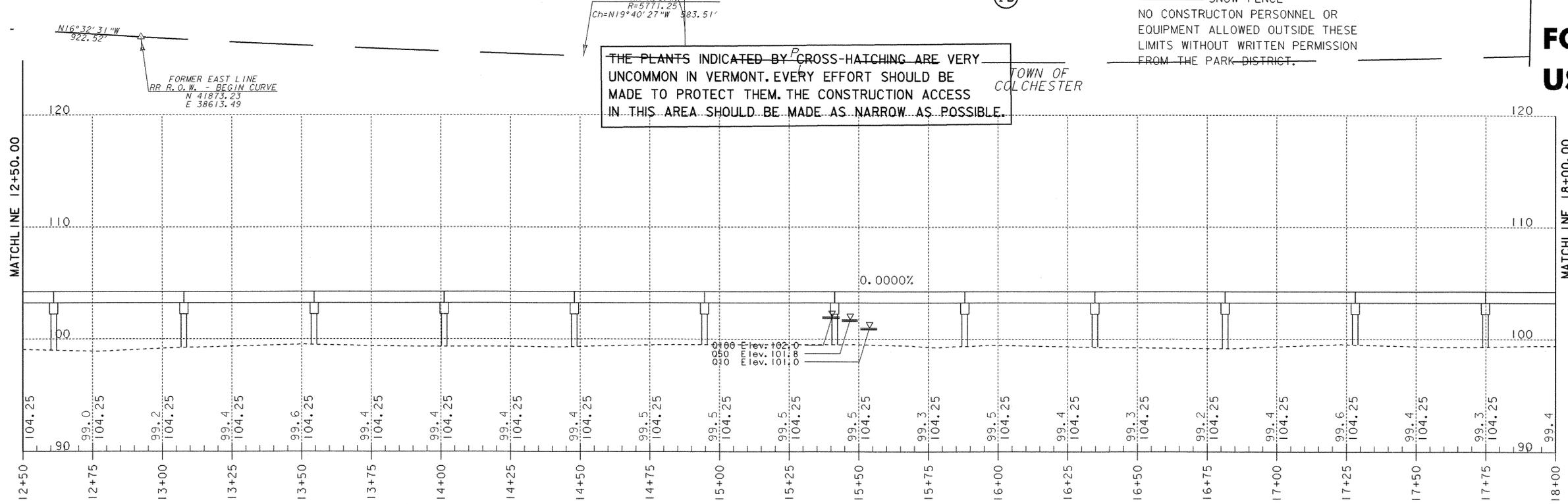


WINOOSKI VALLEY
PARK DISTRICT

(1B)

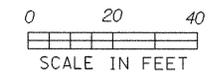
- WET LAND LIMITS
 - X SILT FENCE
 - SNOW FENCE
- NO CONSTRUCTION PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

**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.

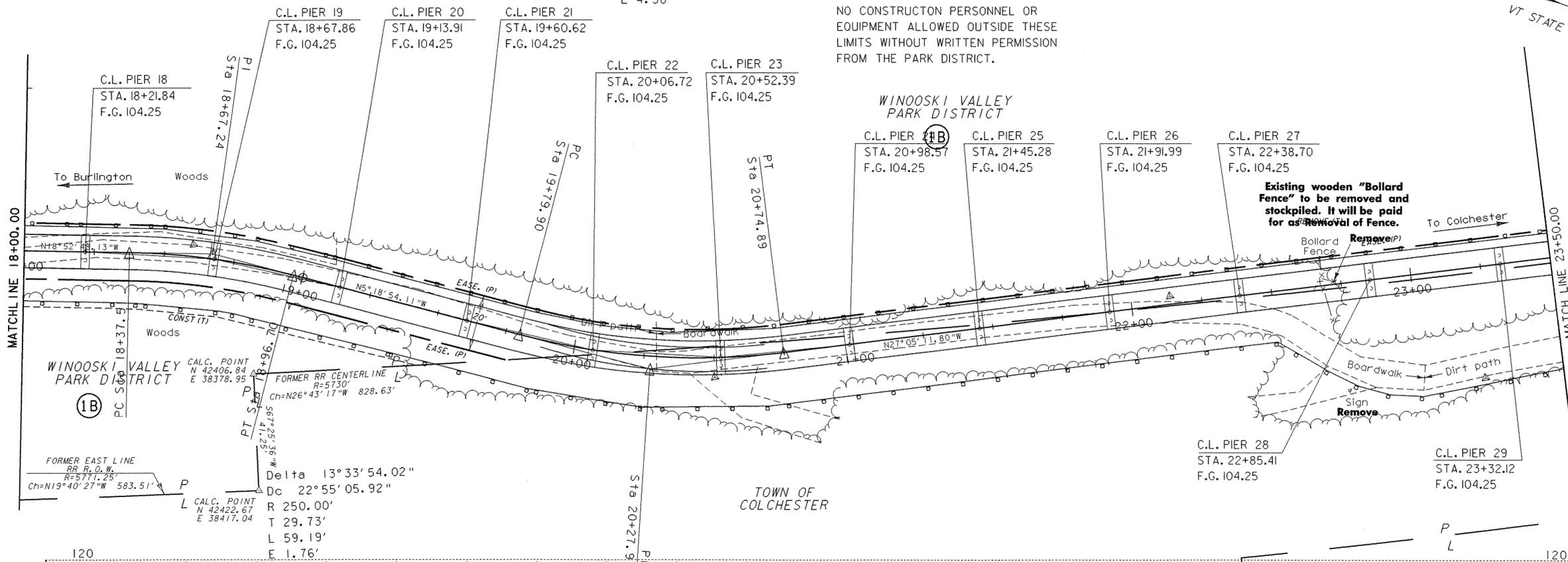
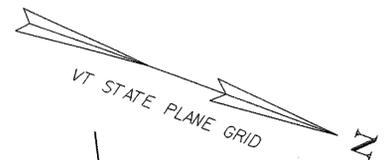
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE CITY OF BURLINGTON AND TOWN OF COLCHESTER'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.



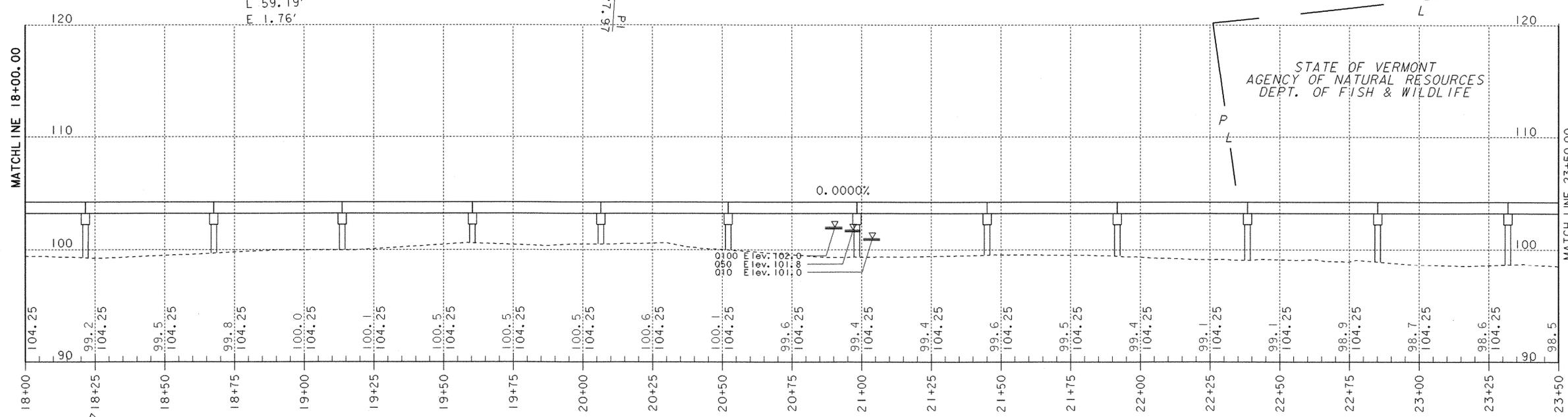
PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)
FILE NAME:	5\str5\01f132\sf132bdr.dgn
PROJECT LEADER:	C. Keller
DESIGNED BY:	M.EVans-Mongeon
PLOT DATE:	05-AUG-2003
DRAWN BY:	G. Shangraw
CHECKED BY:	
R.O.W. SHEET 7 OF 9 SHEETS	SHEET 18 OF 87

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 CONSTRUCTION PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.



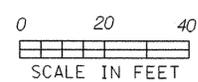
Existing wooden "Bollard Fence" to be removed and stockpiled. It will be paid for as Removal of Fence.



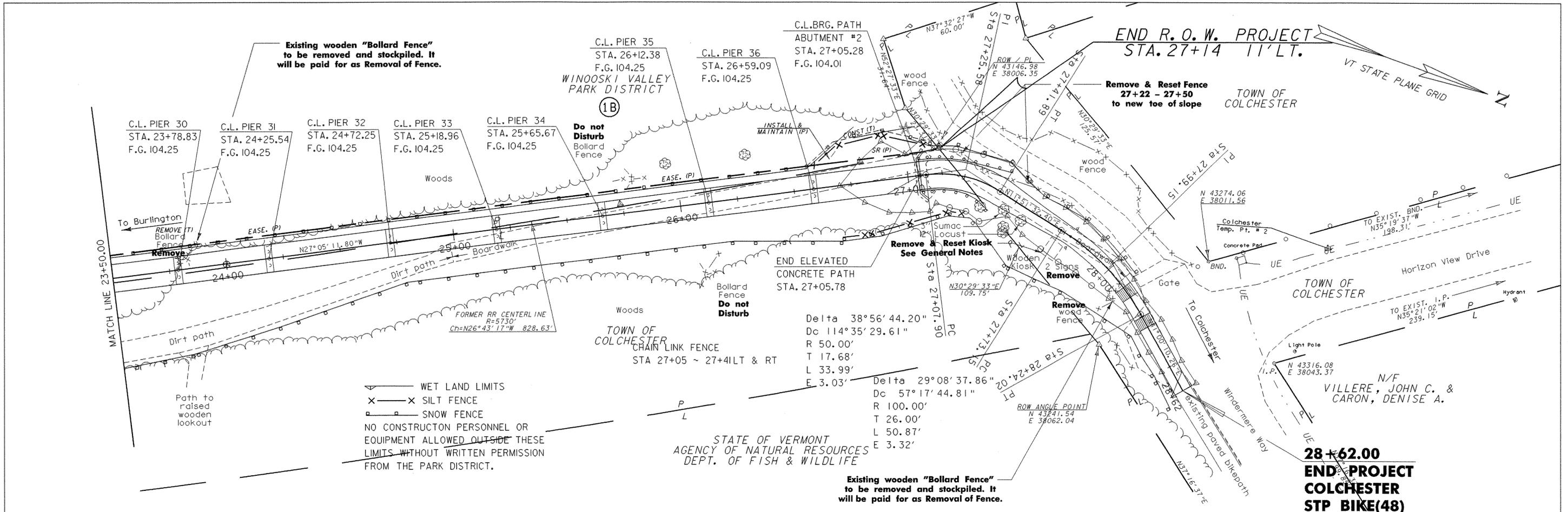
FOR R.O.W. USE ONLY

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

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.



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

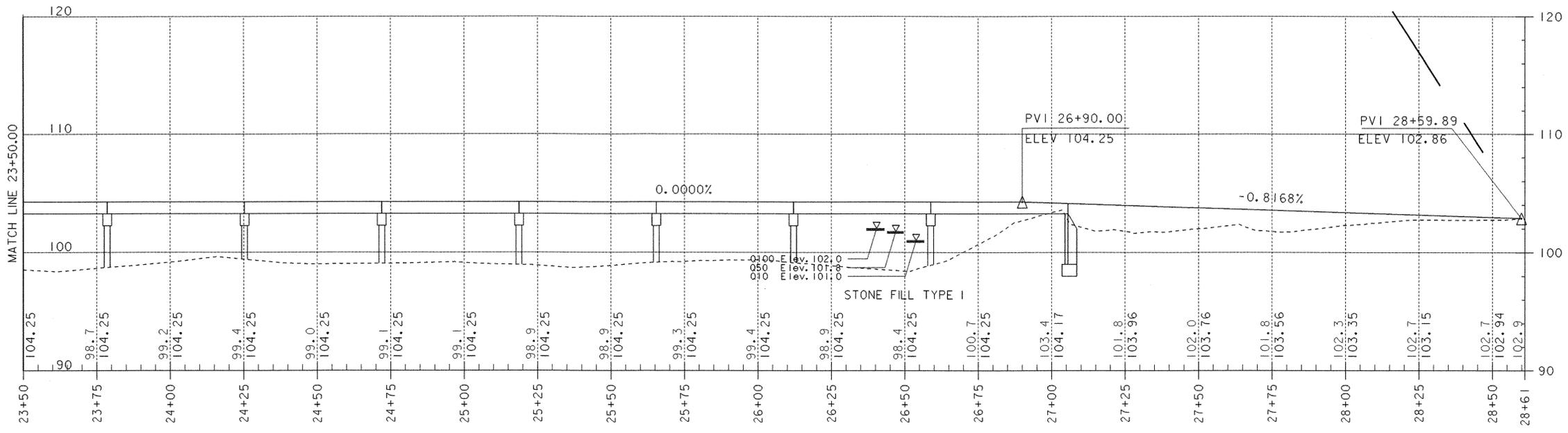


WET LAND LIMITS
 X SILT FENCE
 SNOW FENCE
 NO CONSTRUCTION PERSONNEL OR EQUIPMENT ALLOWED OUTSIDE THESE LIMITS WITHOUT WRITTEN PERMISSION FROM THE PARK DISTRICT.

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

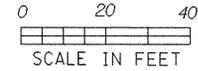
Existing wooden "Bollard Fence" to be removed and stockpiled. It will be paid for as Removal of Fence.

28+62.00
END PROJECT
COLCHESTER
STP BIKE(48)



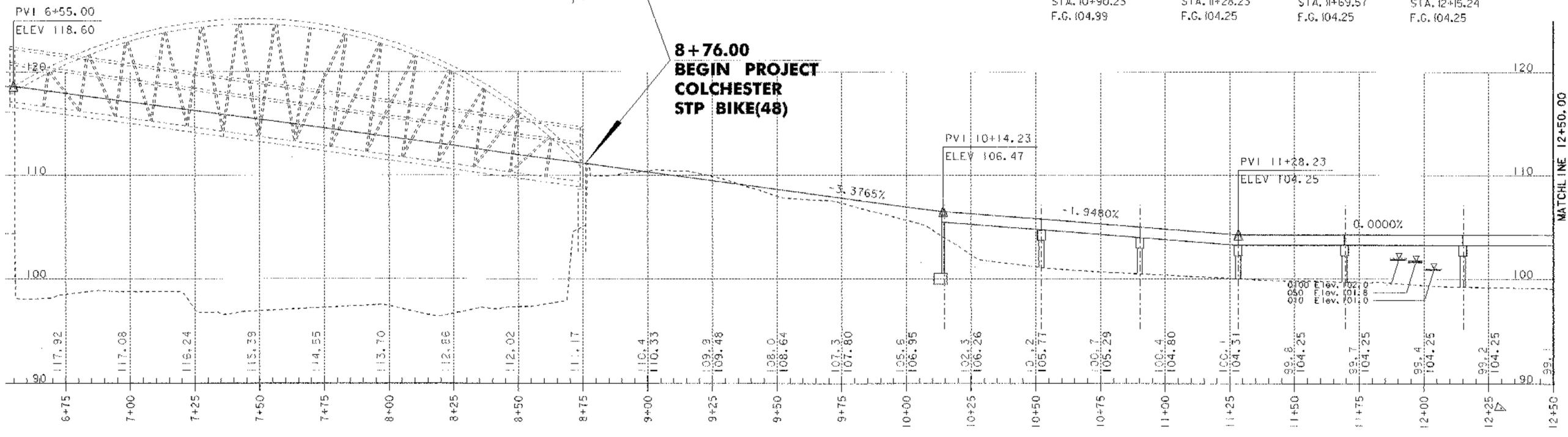
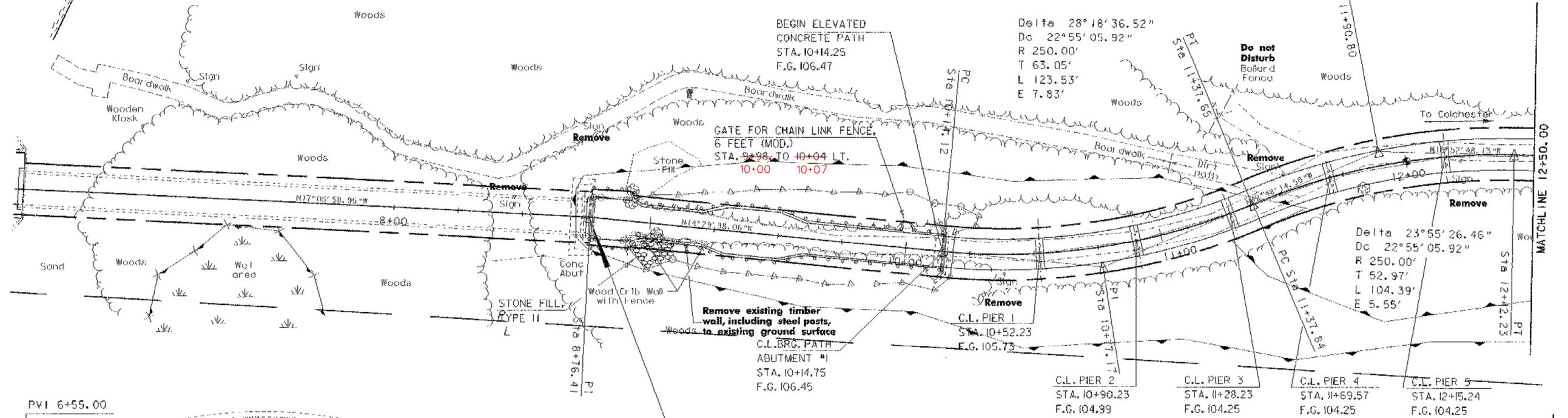
FOR R.O.W.
USE ONLY

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.



PROJECT NAME:	Burlington - Colchester
PROJECT NUMBER:	STP Bike(45)
FILE NAME:	\\str5\01f132\sf132bdr.dgn
DESIGNED BY:	M. Evans-Mongeon
PROJECT LEADER:	C. Keller
CHECKED BY:	G. Shangraw
PLOT DATE:	05-AUG-2003
DRAWN BY:	G. Shangraw
R. O. W. SHEET 9 OF 9 SHEETS	SHEET 20 OF 87

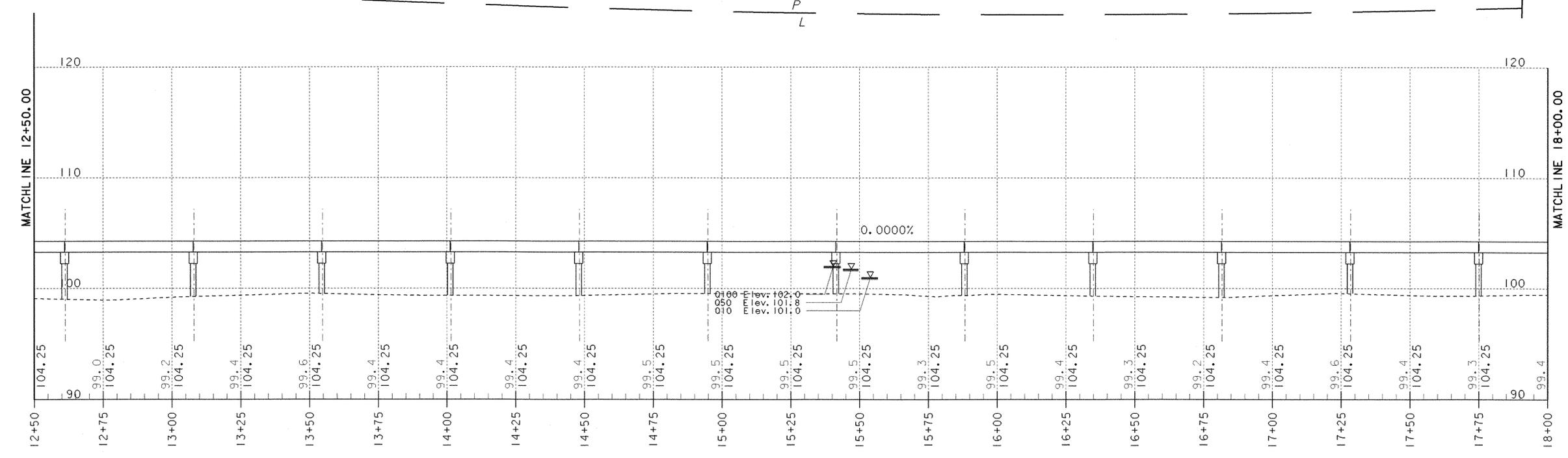
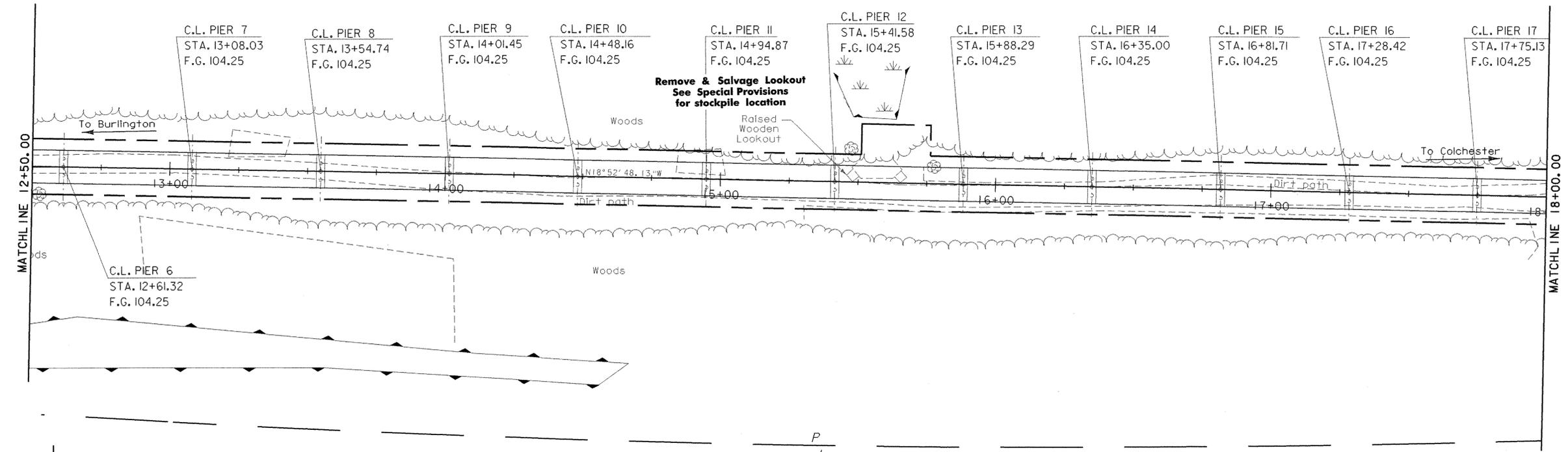
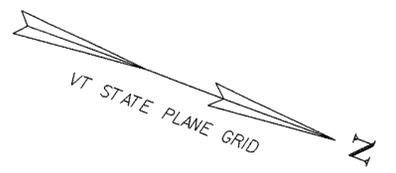
Prior to construction, the Winoski Valley Park District and Local Motion will coordinate to remove all the boardwalk sections, rubber mat, and the Colchester (northern) dock, out of the construction areas.



**8+76.00
BEGIN PROJECT
COLCHESTER
STP BIKE(48)**

PROJECT NAME:	Colchester	FILE NAME:	/str5/03f038/sf038bdr.dgn	PLOT DATE:	05-AUG-2003
PROJECT NUMBER:	STP Bike(48)	PROJECT LEADER:	C. Keller	DRAWN BY:	G. Shangraw
		DESIGNED BY:	M. Evans-Mongeon	CHECKED BY:	
				SHEET	22 OF 87

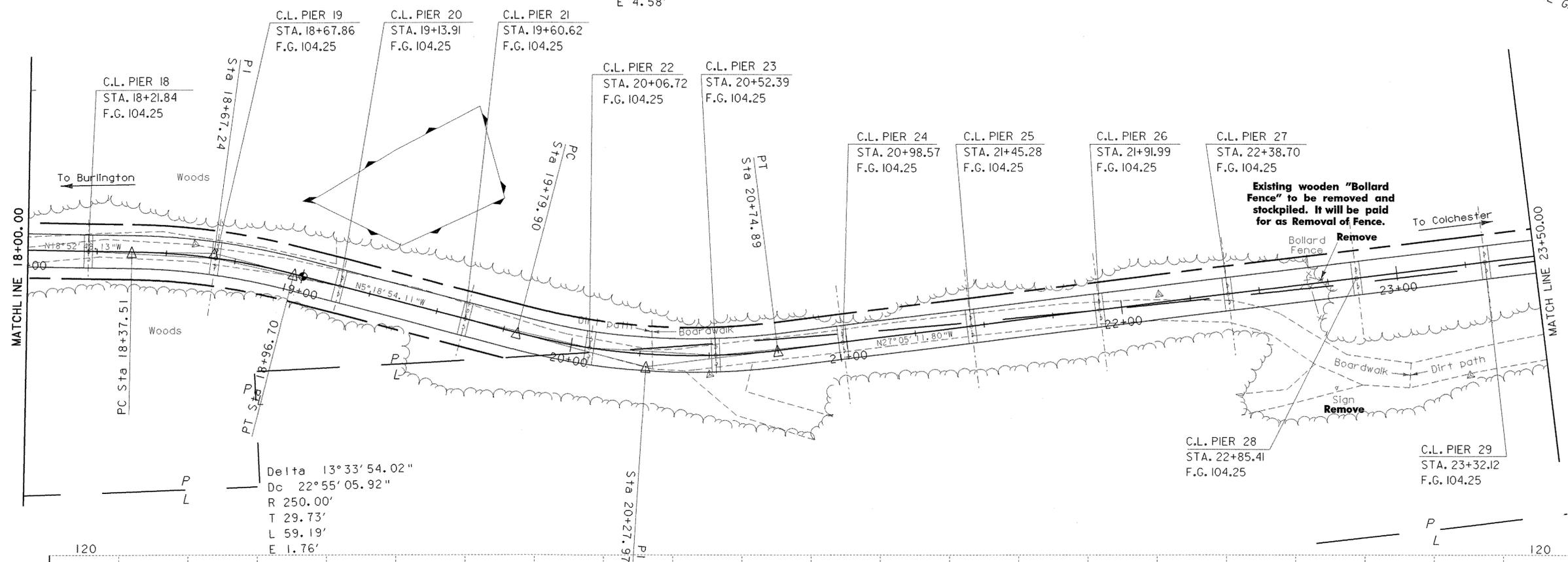
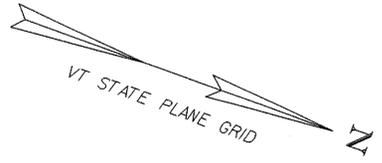




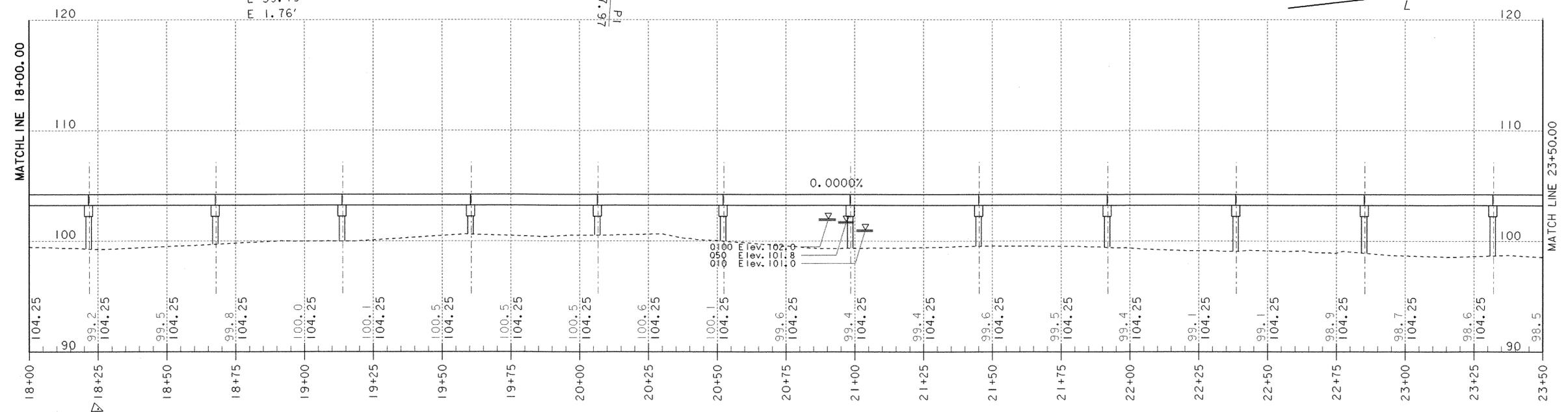
PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: M. Evans-Mongeon	CHECKED BY:
sf038L2.i	SHEET 23 OF 87



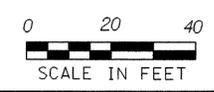
Delta 21°46'17.69"
 Dc 22°55'05.92"
 R 250.00'
 T 48.08'
 L 95.00'
 E 4.58'

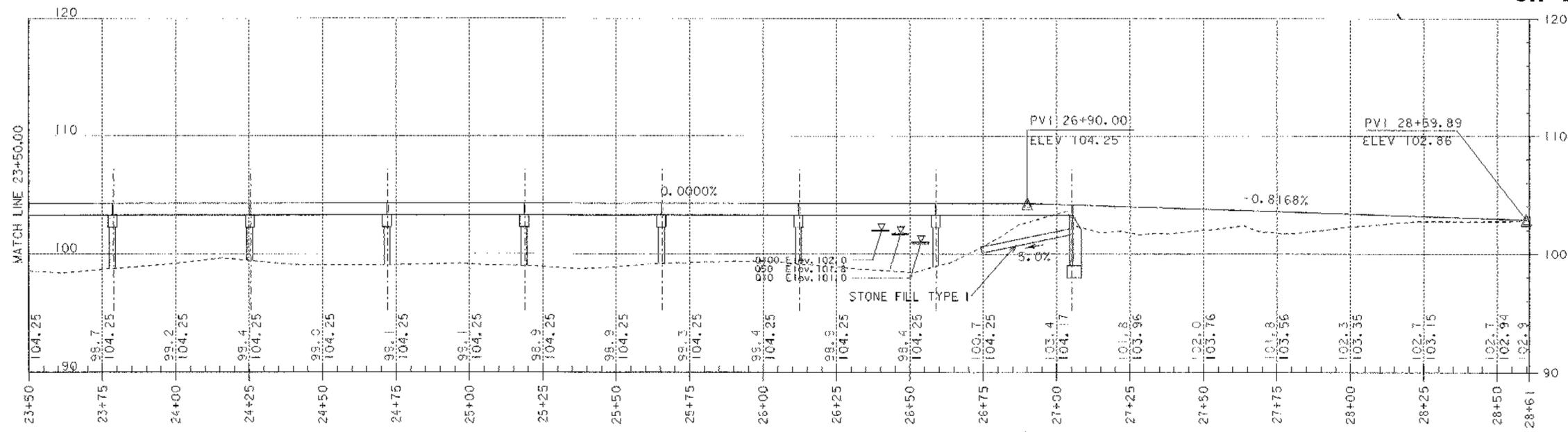
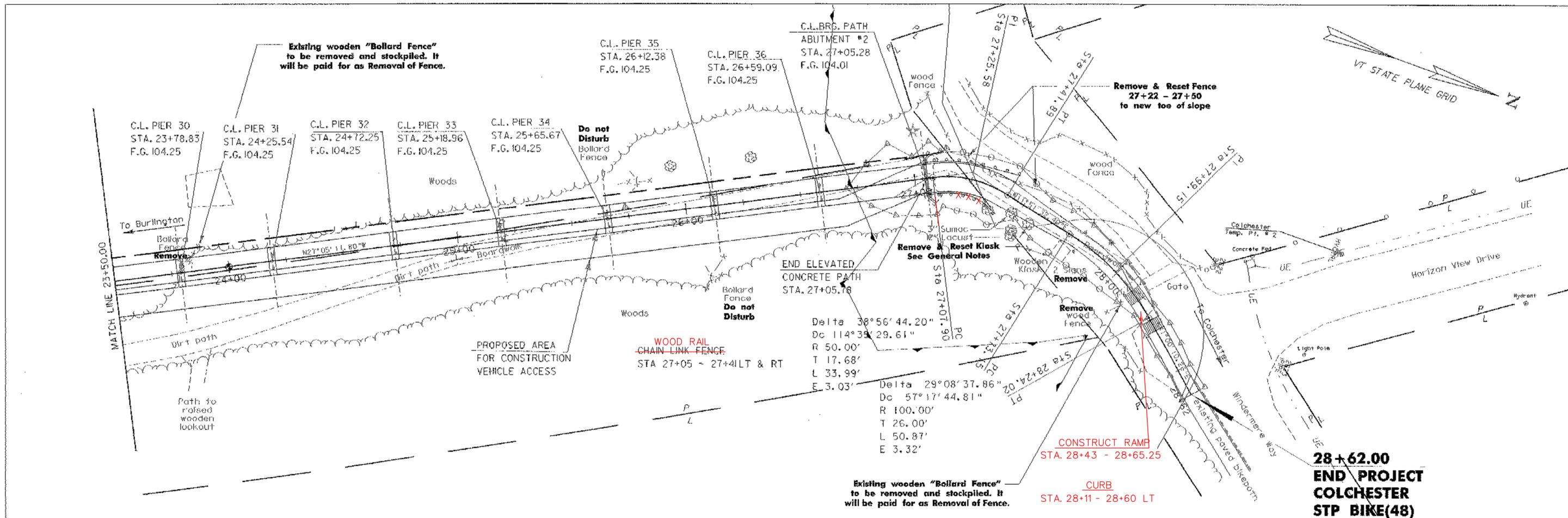


Delta 13°33'54.02"
 Dc 22°55'05.92"
 R 250.00'
 T 29.73'
 L 59.19'
 E 1.76'



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:
 sf038L3.I SHEET 24 OF 87



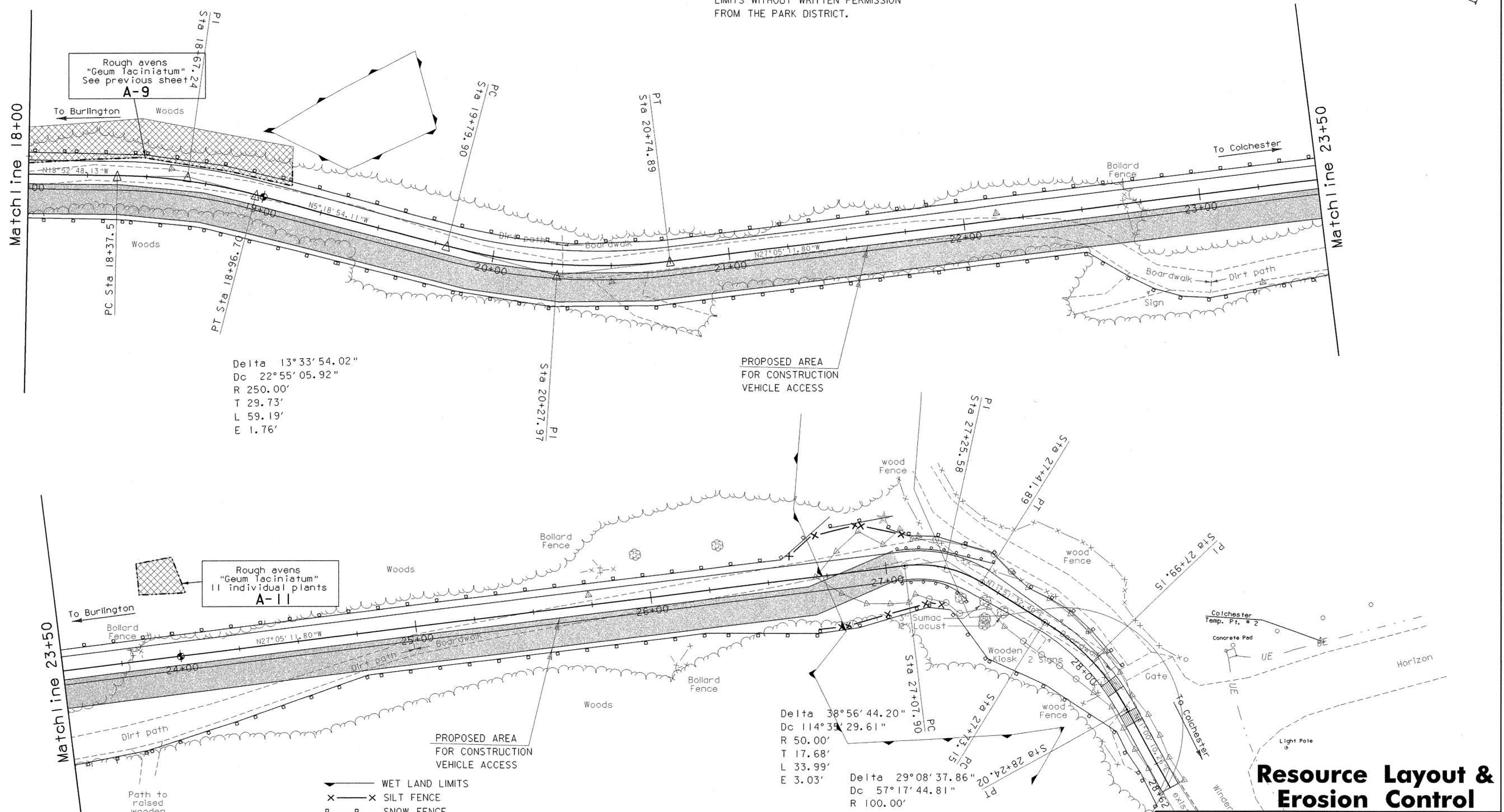
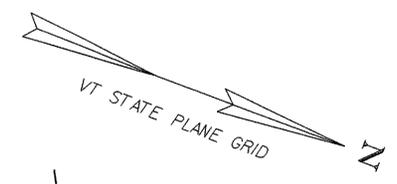


PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME:	/str5/03f038/sf038bdr.dgn
PROJECT LEADER:	C. Keller
DESIGNED BY:	M. Evans-Mongeon
PLOT DATE:	05-AUG-2003
DRAWN BY:	G. Shangraw
CHECKED BY:	
SHEET	25 OF 87



Dc 22°55' 05.92"
 R 250.00'
 T 48.08'
 L 95.00'
 E 4.58'

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



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

PROPOSED AREA
 FOR CONSTRUCTION
 VEHICLE ACCESS

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

PROPOSED AREA
 FOR CONSTRUCTION
 VEHICLE ACCESS

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

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'

Resource Layout & Erosion Control

PROJECT NAME:	Colchester	FILE NAME:	/str5/03f038/resourcebdr.dgn	PLOT DATE:	05-AUG-2003
PROJECT NUMBER:	STP Bike(48)	PROJECT LEADER:	C. Keller	DRAWN BY:	G. Shangraw
		DESIGNED BY:	M. Evans-Mongeon	CHECKED BY:	
			sf038res2.1	SHEET	28 OF 87

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 110 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 TO 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 DYNAMIC 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 KIIPS 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 1/2" DIAMETER TRANSVERSE TENDONS, GALVANIZED CHUCKS WITH 1/2" FLATE, THE 1 1/4" ANCHOR BOLTS, AND THE HOT POURED JOINT SEALER, AND MOREAR TYPE IV, AS SHOWN IN THE PLANS.
46. THE 1/2" DIAMETER TRANSVERSE TENDONS SHALL BE POLYSTRAND OR EQUIVALENT. THE 1/2" FLATE SHALL CONFORM TO AASHTO M270 GR 36. THE 1/2" FLATE, 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):	$R(d1+sdl) = 5.7$ kips; $R(l1) = 2.9$ kips
Design Method:	Design Method A for bearing design
Temperature:	80 deg. F.

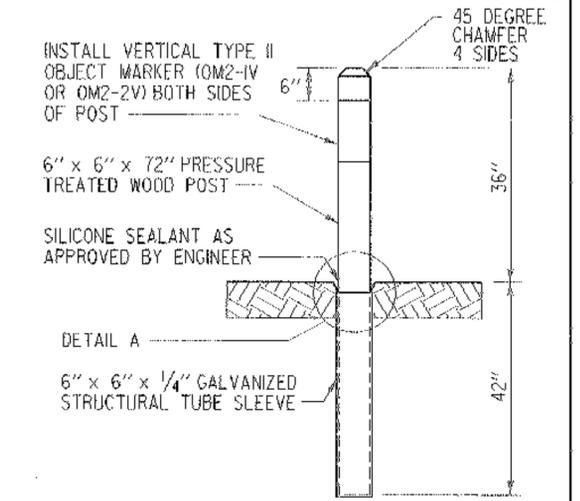
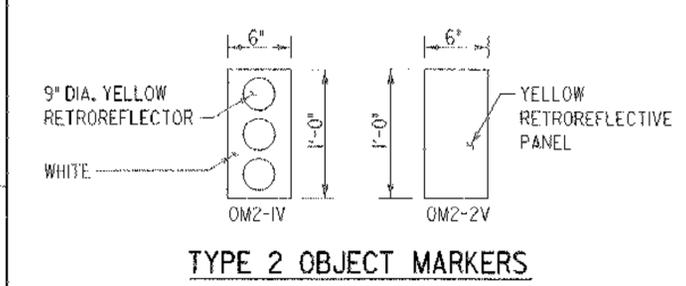
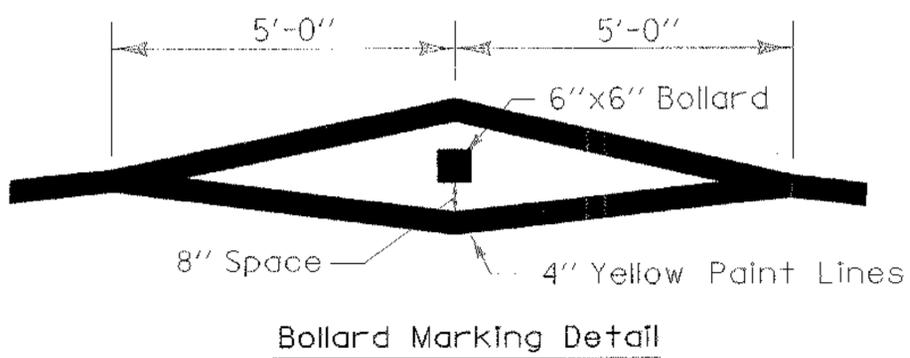
PROJECT NAME:	Colchester		
PROJECT NUMBER:	STP BIKE (48)		
FILE NAME:	s#038gnote.xls	PLOT DATE:	7/16/2003
PROJECT LEADER:	C. S. Keller	DRAWN BY:	M. Evans
DESIGNED BY:	M. Evans-Mongeon	CHECKED BY:	
GENERAL NOTES SHEET #1		SHEET	30 OF 87

GENERAL NOTES

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

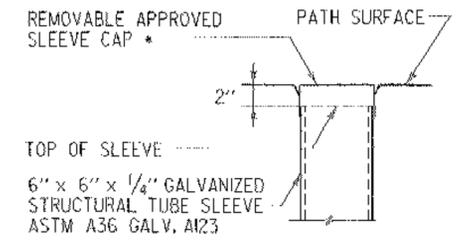
- E. All materials and fabrication shall be per AASHTO division 11 section 18.2 and AASHTO Materials Specification M251.
- F. The Contractor may submit alternative bearing designs for approval. Any alternative submitted shall be designed and certified to meet the loads and criteria shown on the plans 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	PLOT DATE:	7/16/2003
PROJECT NUMBER:	STP BIKE (48)	DRAWN BY:	M. Evans-
FILE NAME:	s038gnote.xls	CHECKED BY:	
PROJECT LEADER:	C. S. Keller	SHEET	31 OF 87
DESIGNED BY:	M. Evans-Mongeon		
GENERAL NOTES SHEET #2			



WOOD BOLLARD WITH POST CAP
Sta. 27+25.0 Centerline

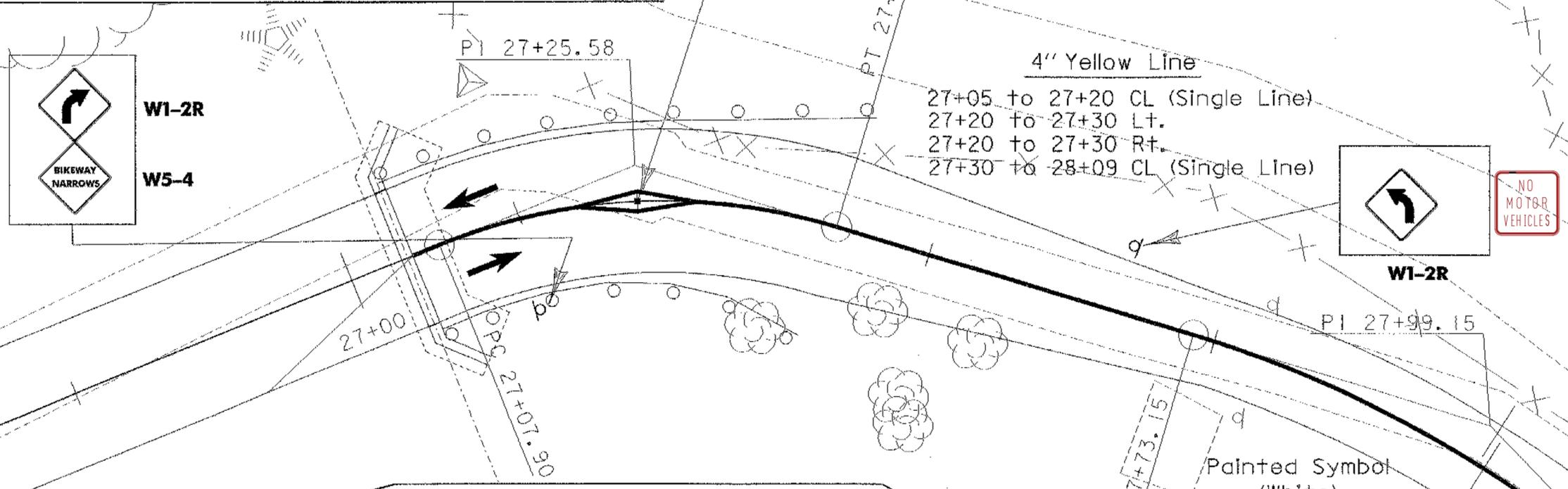
NOTE:
CONTRACTOR SHALL ENSURE BOLLARDS ARE REMOVABLE ONCE PLACED WITHIN SLEEVE BY MILLING TIMBER AS NEEDED.



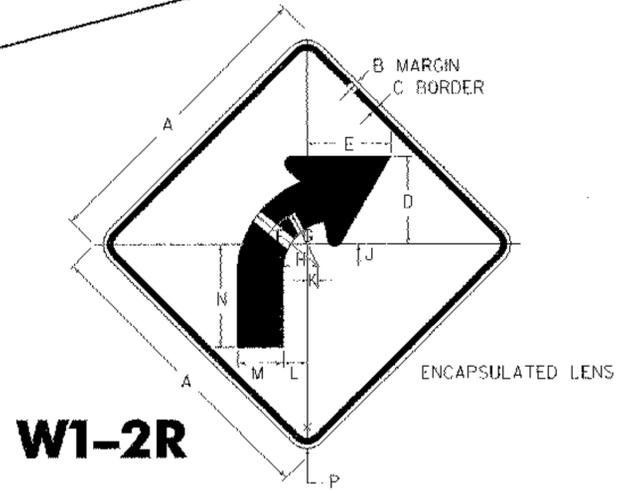
* CONTRACTOR SHALL SUPPLY RESIDENT ENGINEER WITH 4 ADDITIONAL SLEEVE CAPS TO BE RETAINED FOR FUTURE USE.

DETAIL A

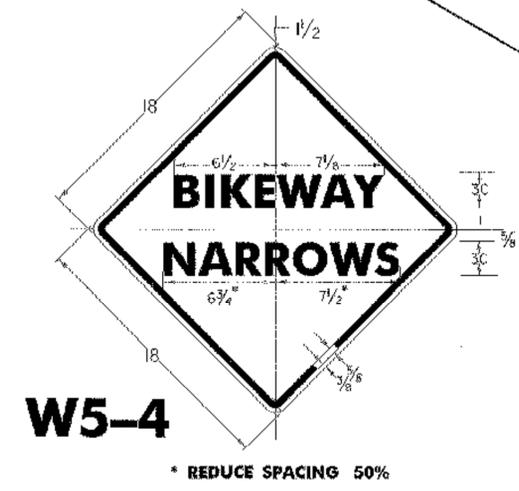
* PAYMENT FOR BOLLARD, MARKERS, POST CAP AND SLEEVE WILL BE MADE UNDER ITEM 619.15 WOOD MARKER POST (MOD.)



- Painted Symbol (White)
- 2+90 Lt. (Arrow)
 - 2+90 Rt. (Arrow)
 - 8+85 Lt. (Arrow)
 - 8+85 Rt. (Arrow)
 - 27+12 Lt. (Arrow)
 - 27+12 Rt. (Arrow)

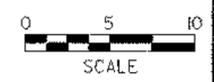
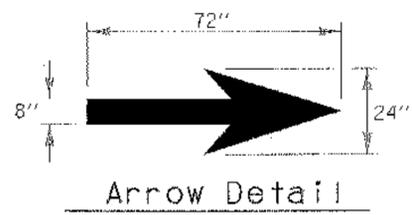


SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
PATH	18	3/8	5/8	5 3/8	5 1/2	6	4 3/4	3 3/8	1 3/4	1 1/4	2	2 5/8	6 1/4	1 1/2



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



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.i SHEET 33 OF 87

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

SHEET 1 of 3

PROJECT Burlington-Colchester

PROJECT No. STP BIKE (48)

BY

CHECKED BY *FE*

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

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

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

GENERAL NOTES: All water level measurements obtained immediately after withdrawal of augers.
Most auger holes collapsed very soon after withdrawal 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		PROJECT NUMBER: STP BIKE (45)		SITE NAME: BIKE PATH		SITE NO.: DELTA PARK			
STATION: 12+00.00		OFFSET: 0.00		GROUND EL.: 99.62		G.W. DEPTH: HOLE CAVED IN			
BORING CREW CREW CHIEF: HOLT DRILLER: YOUNG LOGGER: SOMERS				BORING RIG: TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL					
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5	BR	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	WH	A-2-4, SiSa with Wood, gry, Moist, Rec. = 1.75'	WH	33.7	8	59.8	32.2		
45		A-4, SiSa, gry, Moist, Rec. = 1.30'	8	28.8	2.5	55.2	42.3		

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION				HOLE NO.: B-201 SHEET 2 OF 2 DATE STARTED: 11/8/02 DATE COMPLETED: 11/8/02					
PROJECT NAME: BURLINGTON-COLCHESTER		PROJECT NUMBER: STP BIKE (45)		SITE NAME: BIKE PATH		SITE NO.: DELTA PARK			
STATION: 12+00.00		OFFSET: 0.00		GROUND EL.: 99.62		G.W. DEPTH: HOLE CAVED IN			
BORING CREW CREW CHIEF: HOLT DRILLER: YOUNG LOGGER: SOMERS				BORING RIG: TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL					
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
	OR	A-4, Si with Trace of Organics (3.4%), gry, Moist, Rec. = 1.80'	6	41.9		9.6	90.4		
55		A-2-4, SiSa, gry, Moist, Rec. = 1.20'	18	19.2	4	70.2	25.8		
60		A-4, SaGrSi, gry, Moist, Rec. = 1.00'	10	15.1	35.7	24.3	40		
65		A-2-4, SiSa, gry, Moist, Rec. = 1.75'	29	19.8	5.6	72.9	21.5		
70		A-2-4, Sa, gry, Moist, Rec. = 1.75'	28	22	2.6	86.5	10.9		
75		A-3, Sa, gry, Moist, Rec. = 0.90'	12	22.7		97.8	2.2		
80		A-4, SaSi, gry, Moist, Rec. = 1.10'	11	28		26.2	73.8		
85		A-4, Si, gry, Moist, Rec. = 1.50'	13	30		14.6	85.4		
90		A-4, Si, gry, Moist, Rec. = 2.00'	9	29.8		10.9	89.1		
Hole stopped @ 92.0'									
95									

SURVEYED BY _____ DATE _____
 DRAWN BY J. TOUCHETTE DATE 11/02
 SQUAD LEADER C. C. BENDA
 DESIGN FILE NO. /M&R/01f132/mf132bor.dgn
 I/PARM FILE _____ DATE _____
 FILE _____ PLOTTED 05-AUG-2003
 PROJ. NAME COLCHESTER
 PROJ. NO. STP BIKE(48)
 SHEET 35 OF 87 SHEETS

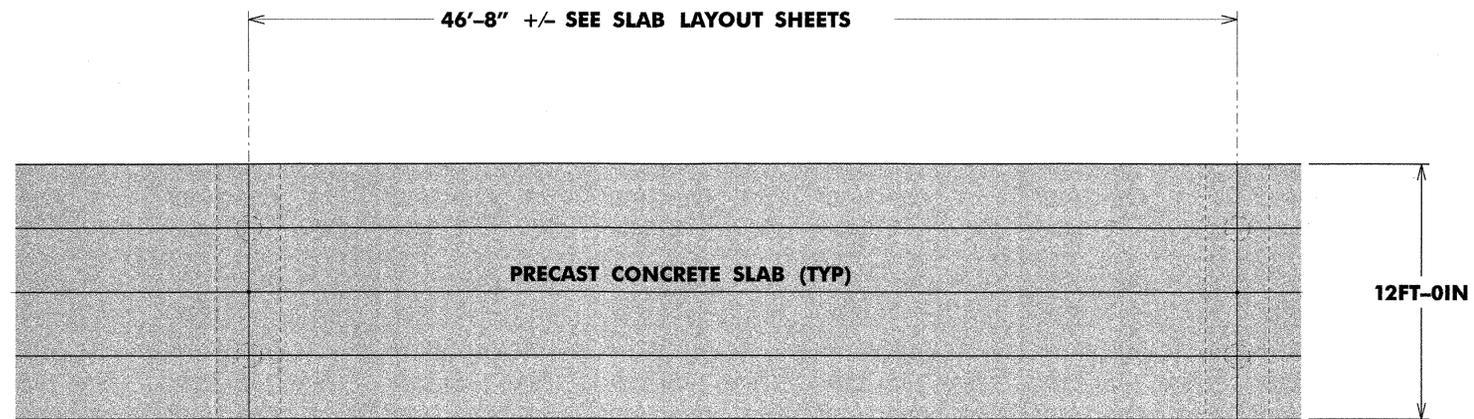
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-202 SHEET 1 OF 2 DATE STARTED: 11/7/02 DATE COMPLETED: 11/7/02							
PROJECT NAME: BURLINGTON-COLCHESTER SITE NAME: BIKE PATH STATION: 19+00.00 GROUND EL.: 99.95		PROJECT NUMBER: STP BIKE (45) SITE NO.: DELTA PARK OFFSET: 0.00 G.W. DEPTH: HOLE CAVED IN							
BORING CREW CREW CHIEF: HOLT DRILLER: YOUNG LOGGER: SOMERS		BORING RIG: TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		A-2-4, SiSa, gry, Moist, Rec. = 1.50'	7	29.1	0.3	78.6	21.1		
10		A-2-4, SiSa, gry, Moist, Rec. = 1.30'	7	27.3	0.3	78.3	21.4		
15		A-1-b, Sa, gry, Moist, Rec. = 1.00'	4	35.5	4.6	90.4	5		
20		A-2-4, Sa, gry, Moist, Rec. = 1.20'	4	29.2	9.3	71.1	19.6		
25		A-4, SiSa, gry, Moist, Rec. = 1.75'	2	38.1		58.2	41.8		
30		A-2-4, Sa, gry, Moist, Rec. = 1.10'	3	31.5		85.9	14.1		
35		A-2-4, Sa, gry, Moist, Rec. = 2.00'	9	27.1		86.7	13.3		
40		A-4, SaSi, gry, Moist, Rec. = 2.00'	4	41.8	0.8	22.7	76.5		
45		A-4, SaSi with Trace of Organics (3.0%), gry, Moist, Rec. = 2.00'	3	43		29.6	70.4		

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-202 SHEET 2 OF 2 DATE STARTED: 11/7/02 DATE COMPLETED: 11/7/02							
PROJECT NAME: BURLINGTON-COLCHESTER SITE NAME: BIKE PATH STATION: 19+00.00 GROUND EL.: 99.95		PROJECT NUMBER: STP BIKE (45) SITE NO.: DELTA PARK OFFSET: 0.00 G.W. DEPTH: HOLE CAVED IN							
BORING CREW CREW CHIEF: HOLT DRILLER: YOUNG LOGGER: SOMERS		BORING RIG: TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
55		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		
Hole stopped @ 92.0'									
95									

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-203 SHEET 1 OF 2 DATE STARTED: 11/5/02 DATE COMPLETED: 11/6/02							
PROJECT NAME: BURLINGTON-COLCHESTER SITE NAME: BIKE PATH STATION: 24+00.00 GROUND EL.: 98.97		PROJECT NUMBER: STP BIKE (45) SITE NO.: DELTA PARK OFFSET: 0.00 G.W. DEPTH: 4.0 11/07/02							
BORING CREW CREW CHIEF: HOLT DRILLER: YOUNG LOGGER: SOMERS		BORING RIG: TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
5		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		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		A-4, SaSi with Trace of Organics (1.4%), gry, Moist, Rec. = 1.00'	4	31.8		49.3	50.7		
30		A-4, Si with Trace of Organics (2.8%), gry, Moist, Rec. = 2.00'	9	46.7	0.1	18.5	81.4		
35		A-4, Si with Trace of Organics (2.5%), gry, Moist, Rec. = 1.80'	2	42.3		14.4	85.6		
40		A-4, SaSi with Trace of Organics (3.6%), gry, Moist, Rec. = 1.90'	4	43.5		28.9	71.1		
45		A-2-4, Sa, gry, Moist, Rec. = 1.45'	8	27.3	4.5	79.1	16.4		

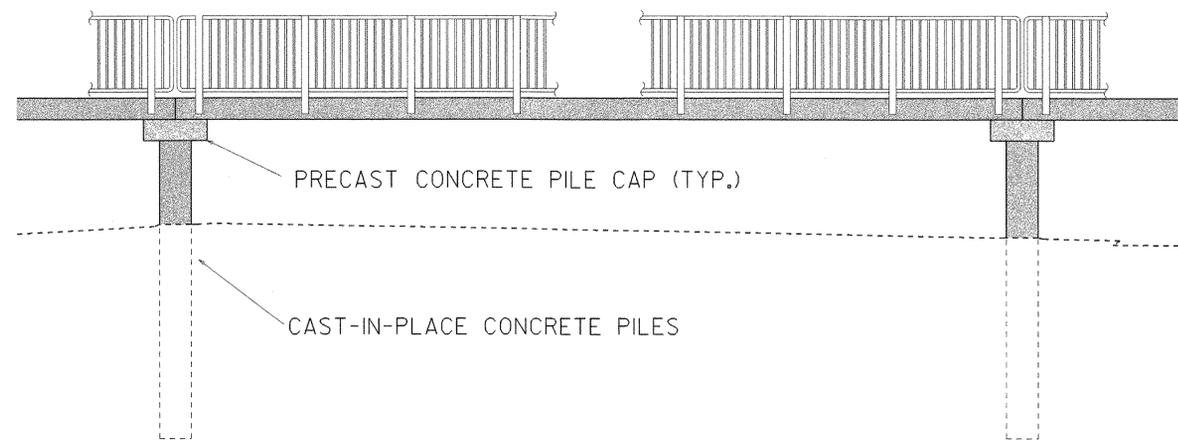
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-203 SHEET 2 OF 2 DATE STARTED: 11/5/02 DATE COMPLETED: 11/6/02							
PROJECT NAME: BURLINGTON-COLCHESTER SITE NAME: BIKE PATH STATION: 24+00.00 GROUND EL.: 98.97		PROJECT NUMBER: STP BIKE (45) SITE NO.: DELTA PARK OFFSET: 0.00 G.W. DEPTH: 4.0 11/07/02							
BORING CREW CREW CHIEF: HOLT DRILLER: YOUNG LOGGER: SOMERS		BORING RIG: TRACK RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
55		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: J. TOUCHETTE DATE: 11/02
 DRAWN BY: C.C. BENDA
 SQUAD LEADER: C.C. BENDA
 DESIGN FILE NO.: /M&R/Of132/mf132bor.dgn
 IPARM FILE: DATE: 05-AUG-2003
 PROJ. NAME: COLCHESTER
 PROJ. NO.: STP BIKE(48)
 SHEET 36 OF 87 SHEETS



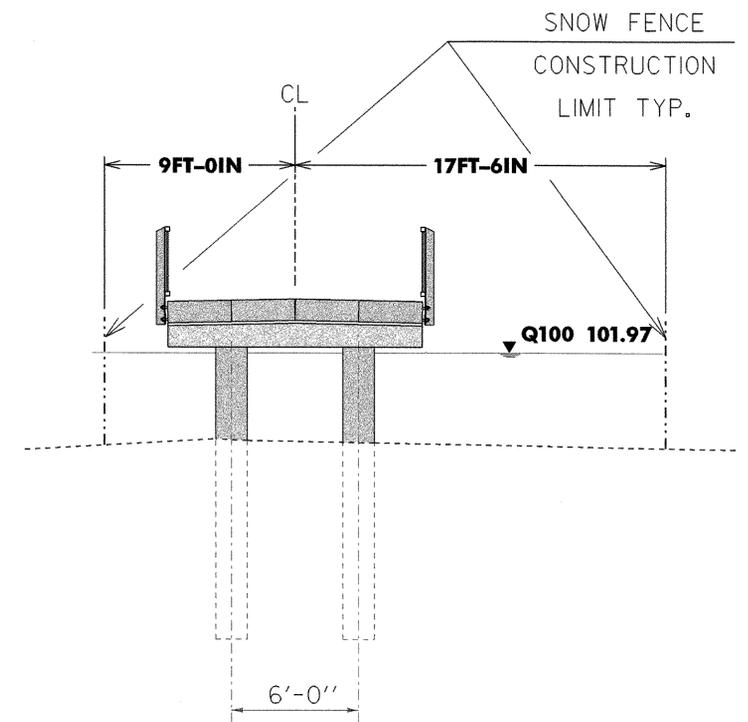
PLAN

SCALE 1/4" = 1'-0"
 1 0 2 4 6



ELEVATION

SCALE 1/4" = 1'-0"
 1 0 2 4 6

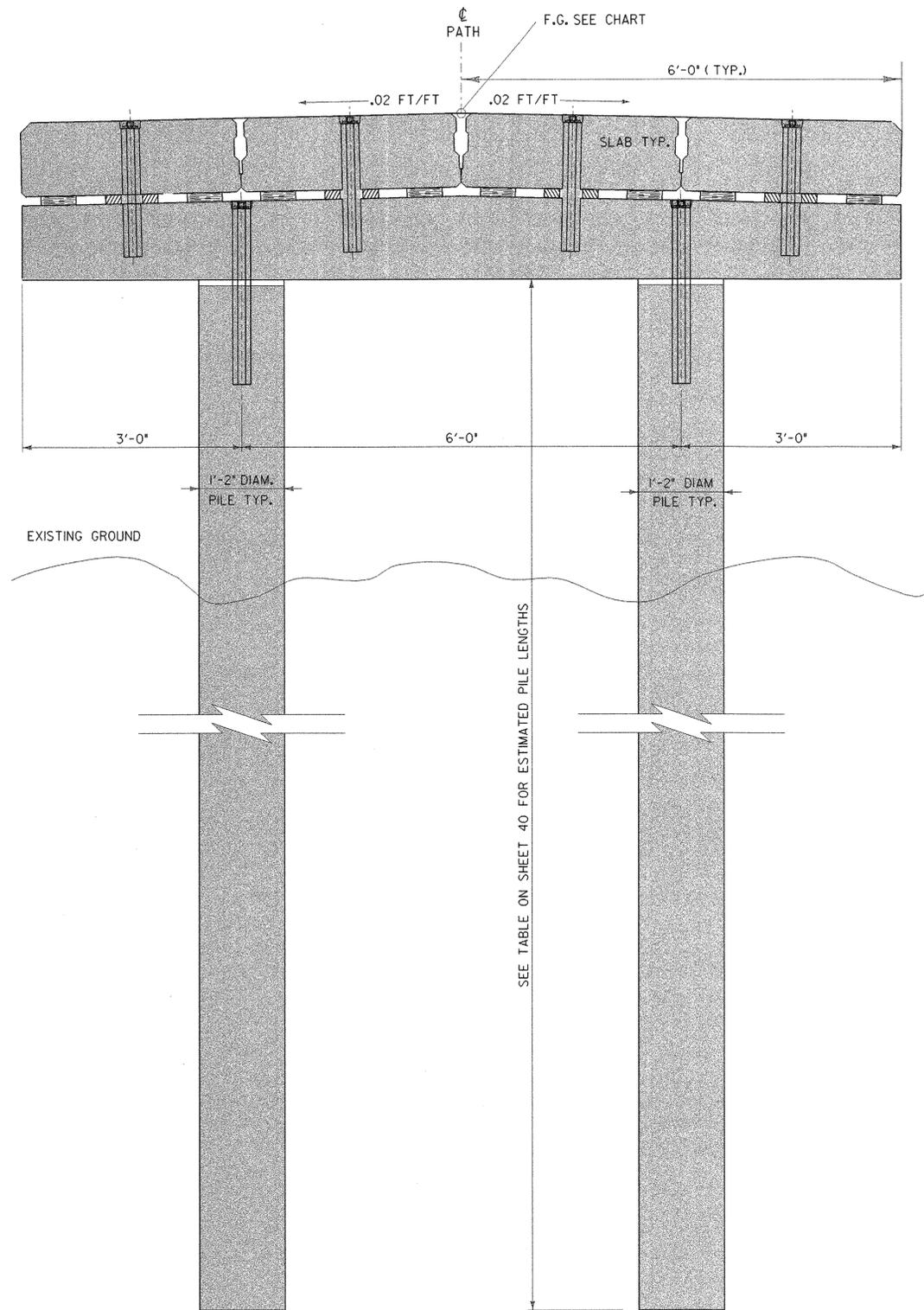


SECTION

SCALE 1/4" = 1'-0"
 1 0 2 4 6

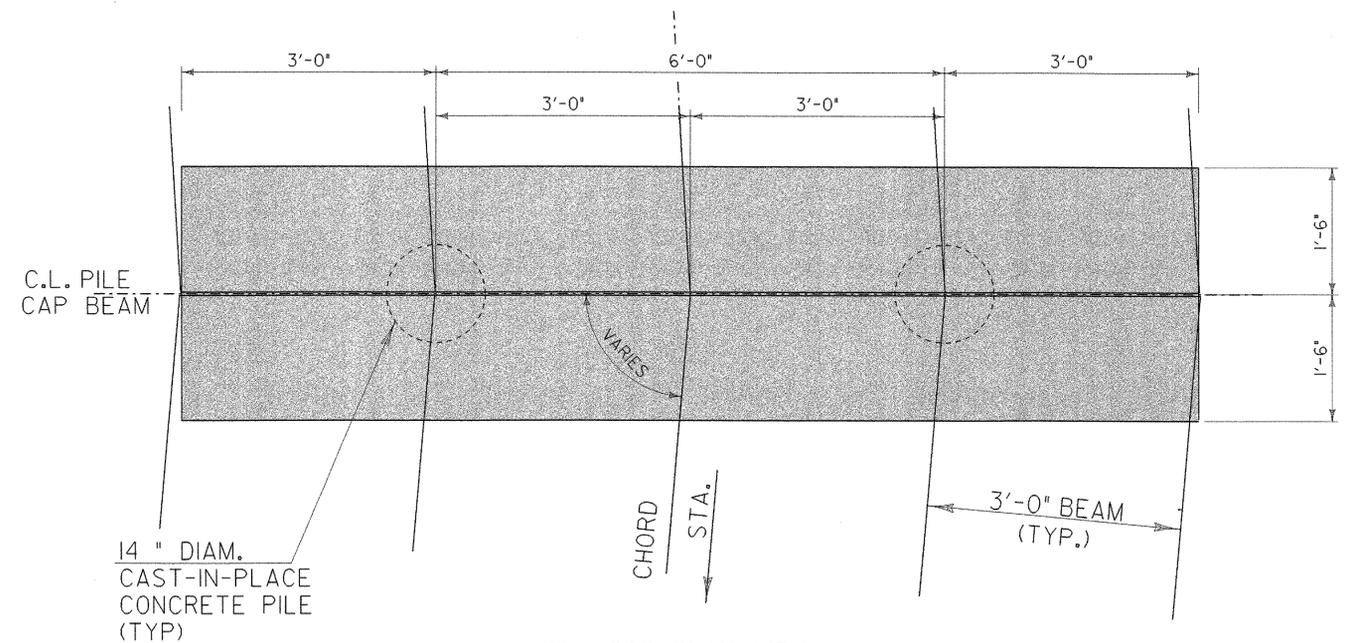
PLAN & ELEVATION

PROJECT NAME: COLCHESTER	PLOT DATE: 05-AUG-2003
PROJECT NUMBER: STP BIKE(48)	DRAWN BY: J. GEORGE
FILE NAME: sr+5/03f038/sf038pe.dgn	DESIGNED BY: M.E.M.
PROJECT LEADER: C. KELLER	CHECKED BY: M.E.M.
DESIGNED BY: 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

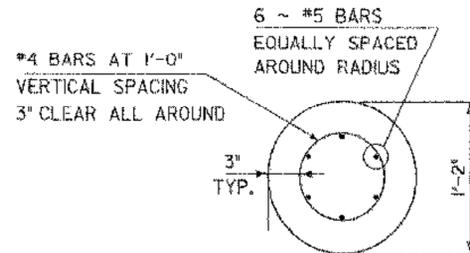
PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP Bike(48)

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.
sf038pstdet.l SHEET 39 OF 87

Pile Lengths and top Elevations

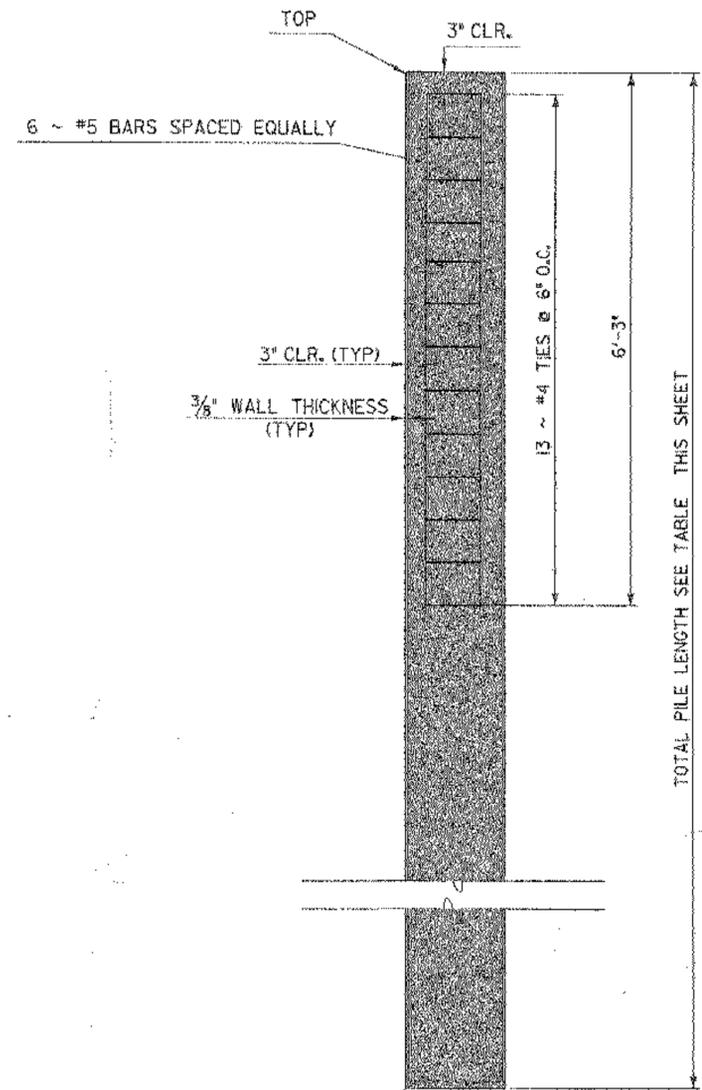
PIER NUMBER	STATION	TOP OF PILE ELEVATION	EXISTING GROUND ELEVATION	ESTIMATED PILE LENGTH
1	10+52.23	103.61 103.48	101.08	57.5
2	10+90.23	102.87 102.74	100.50	57.4
3	11+28.23	102.13 102.00	100.06	57.1
4	11+69.57	102.13	99.71	57.4
5	12+15.24	102.13	99.26	57.9
6	12+61.32	102.13	99.04	58.1
7	13+08.03	102.13	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	102.13 102.09	98.93	58.2

-2.25 FROM F.G.



TYPICAL PILE SECTION TOP 6'-0"

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



PILE NOTES

PILES SHALL BE STEEL PIPE PILES, WITH AN OUTSIDE DIAMETER OF 14 INCHES, AND A MINIMUM WALL THICKNESS OF 3/8". 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.

1" THICK STEEL PLATE, WELDED TO BOTTOM OF STEEL SHELL

TYPICAL PILE REINFORCING

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

PILE DETAILS

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIKe(48)
FILE NAME:	/str5/03f038/ef038pstdet.dgn
PLOT DATE:	22-AUG-2003
PROJECT LEADER:	C. KELLER
DRAWN BY:	J. GEORGE
DESIGNED BY:	J. GEORGE
CHECKED BY:	M.E.J.M.
SHEET:	40 OF 87

▲ REVISED 8/21/2003



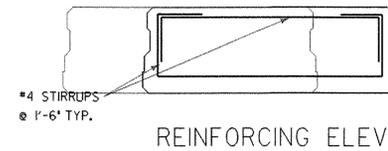
SERVICE LOADS PER UNIT - 46'-8" SPANS
(ALL SPANS EXCEPT SPANS 1-3)

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	

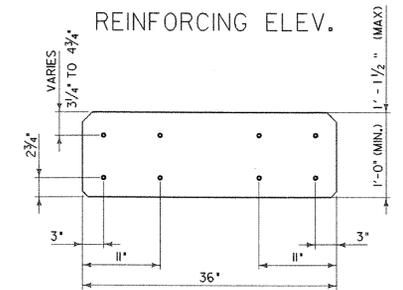
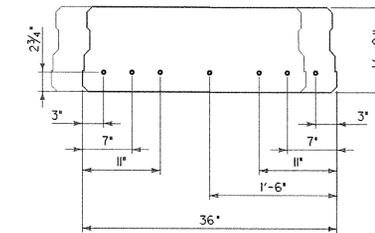
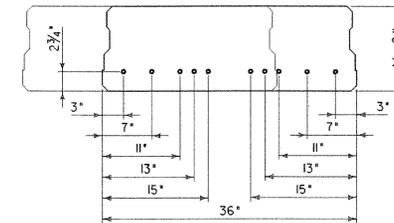
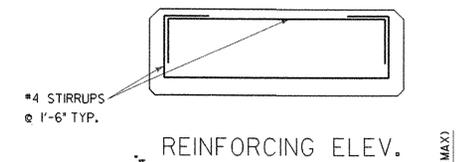
SERVICE LOADS PER UNIT - 38 FOOT SPANS
(SPANS 1-3)

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



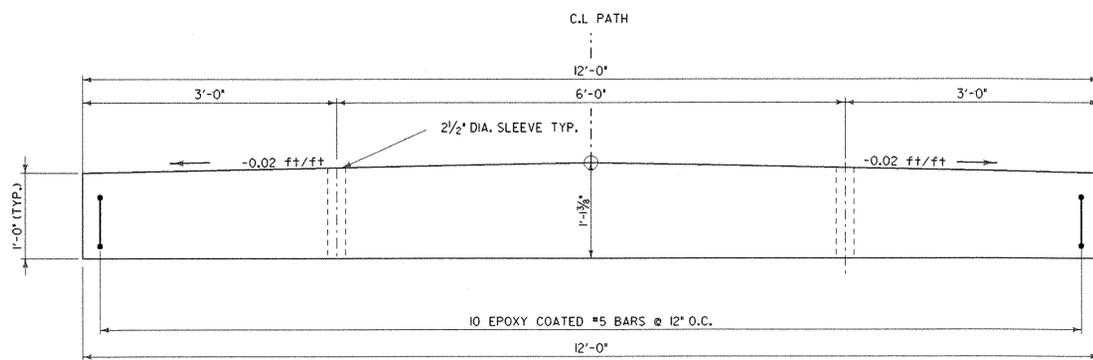
12" x 36" PILE CAP BEAM



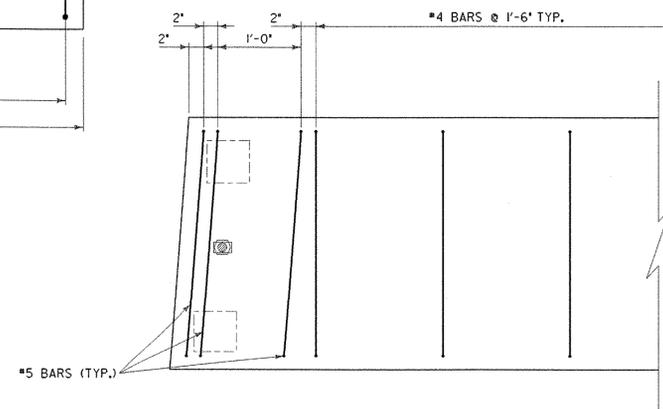
SCALE 1" = 1'-0"
1 9 6 3 0 1 2

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

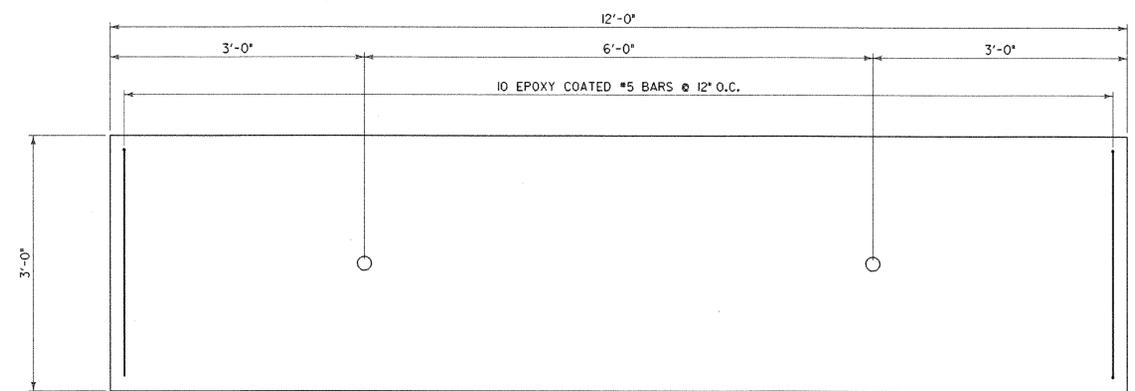
SCALE 1" = 1'-0"
1 9 6 3 0 1 2



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



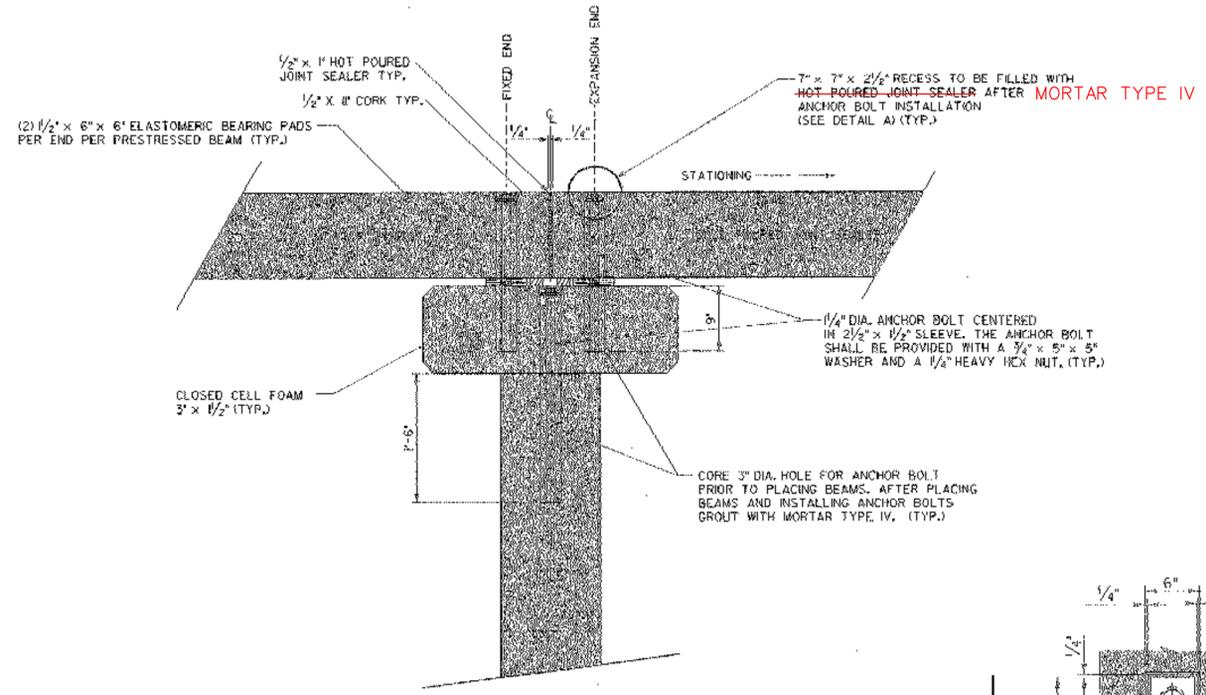
SCALE 1" = 1'-0"
1 9 6 3 0 1 2



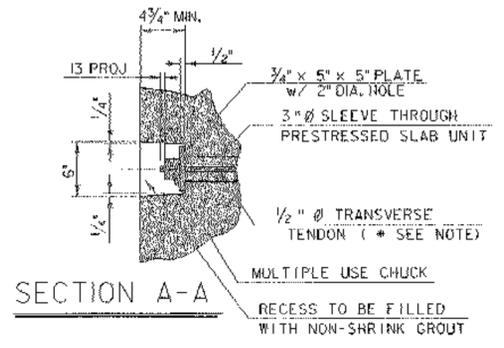
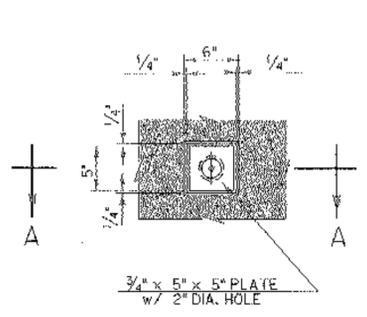
SCALE 1" = 1'-0"
1 9 6 3 0 1 2

PILE CAP AND BEAM DETAILS

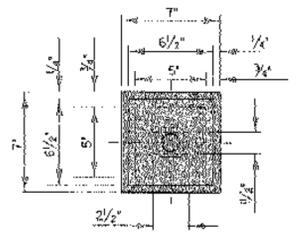
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)
FILE NAME:	/str5/03f038/sf038pstdet.dgn
PROJECT LEADER:	C. KELLER
DESIGNED BY:	J. GEORGE
sf038pstdet+3.j	
DATE:	05-AUG-2003
DRAWN BY:	J. GEORGE
CHECKED BY:	M.E.M.
SHEET	41 OF 87



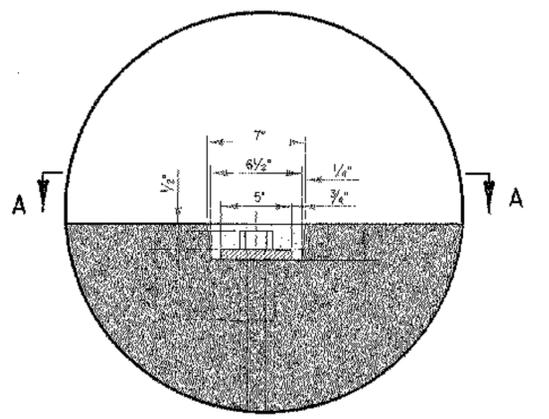
CONNECTION DETAIL @ PILE (TYP.)
SCALE 1" = 1'-0"
1 9 6 3 0



1/2" Ø TRANSVERSE TENDON DETAIL
N.T.S.

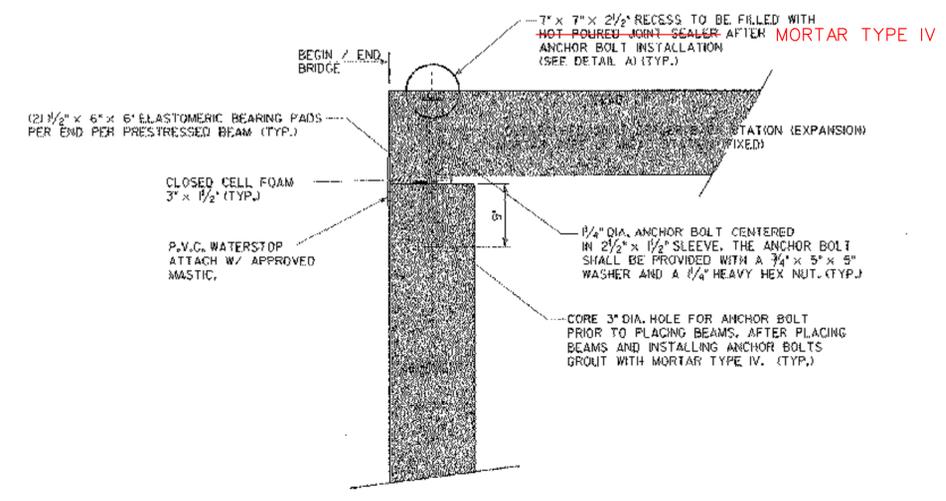


SECTION A-A

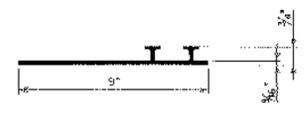


DETAIL "A"

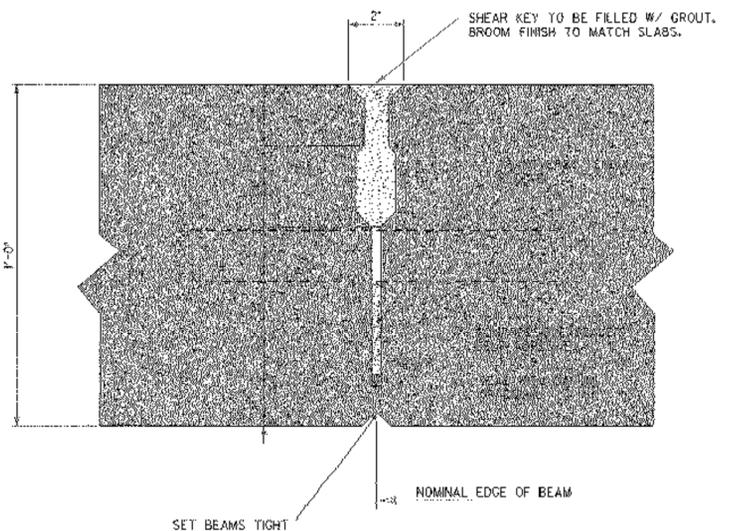
SCALE 1/2" = 1'-0"
0 1 2



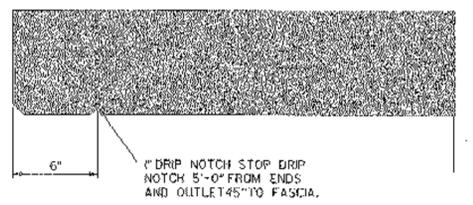
CONNECTION DETAIL @ ABUTMENT (TYP.)
SCALE 1" = 1'-0"
1 9 6 3 0



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.

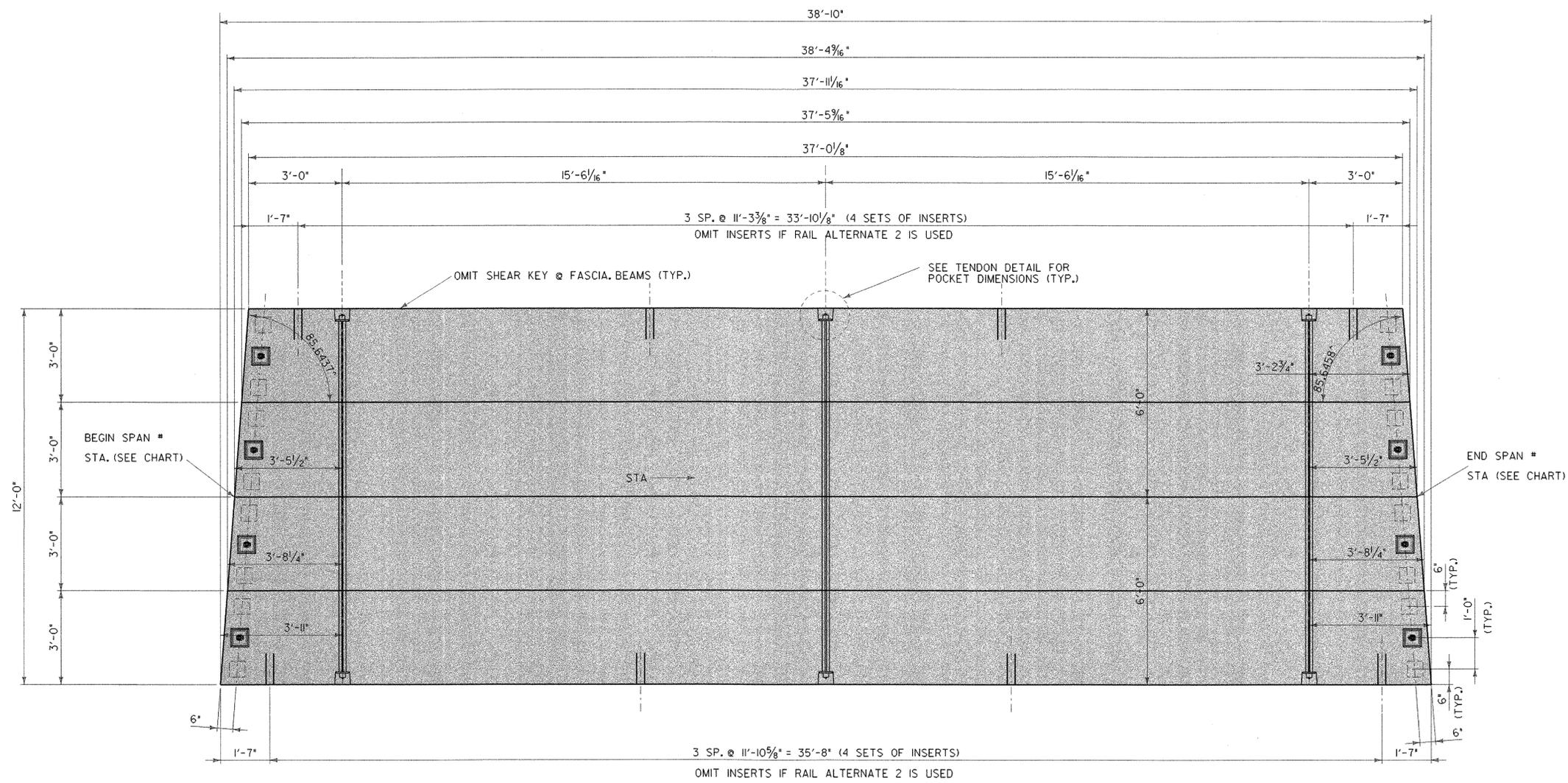


DRIP NOTCH DETAIL

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

FIELD CONNECTION DETAILS

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP BIK0(48)
FILE NAME:	/str5/03f038/sf038pstdet.dgn
PROJECT LEADER:	C. KELLER
DESIGNED BY:	J. GEORGE
DRAWN BY:	J. GEORGE
CHECKED BY:	M.E.M.
DATE:	05-AUG-2003
	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**

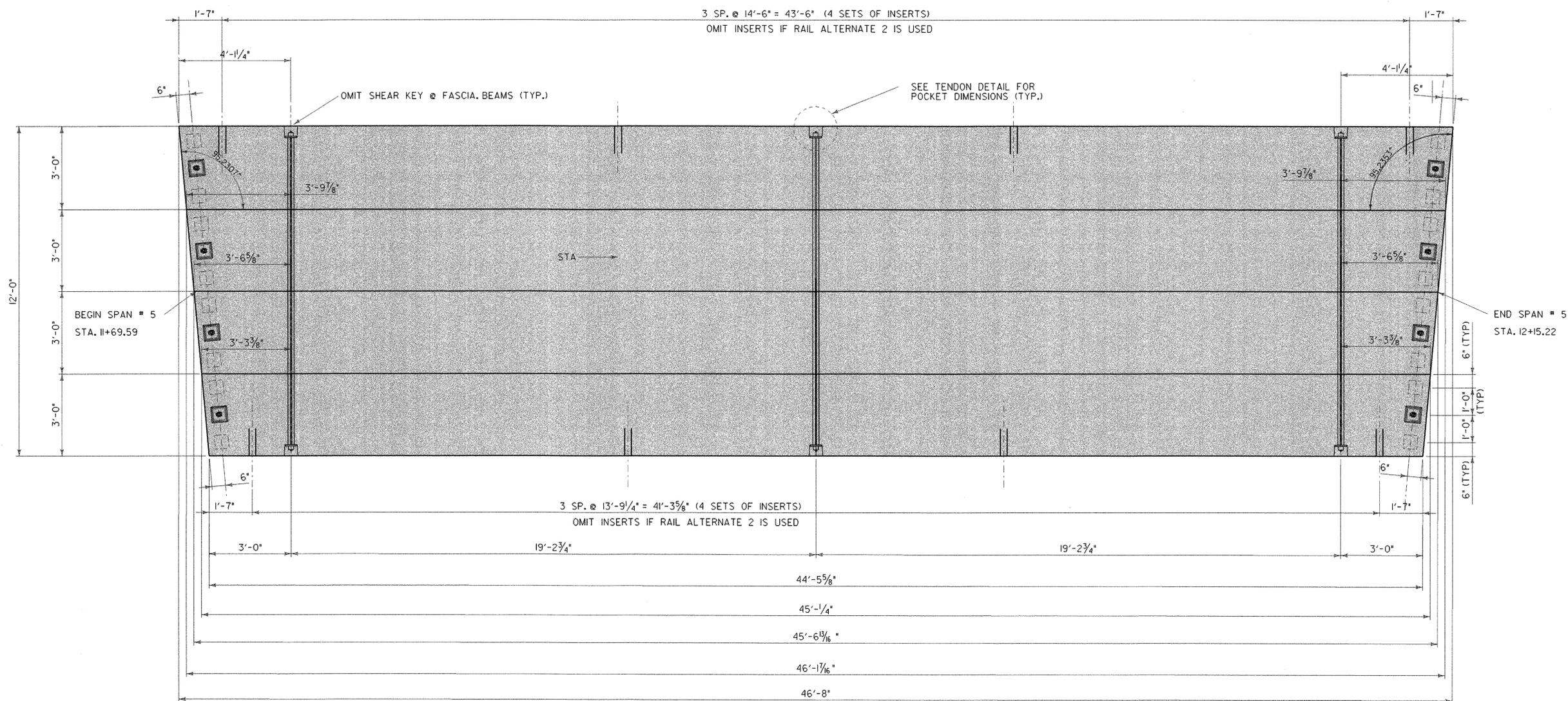
SCALE 1/2" = 1'-0"

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

**SLAB DETAILS
SPANS 1, 2, 3**

- 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.

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.
SHEET	43 OF 87



PRESTRESSED SLAB LAYOUT
SPAN 5

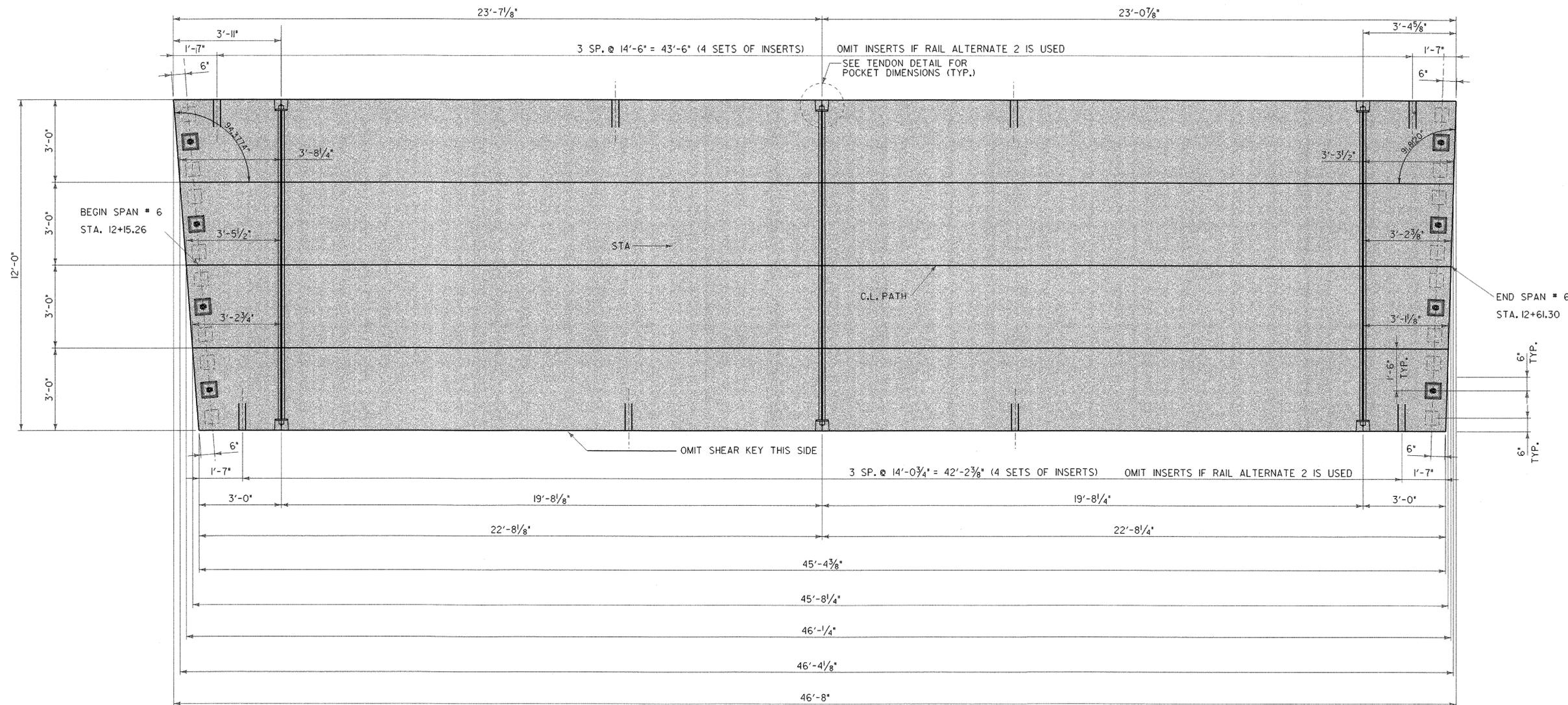
SCALE 1/2" = 1'-0"
1 0 1 2

**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.
sf038pstdet7.1 SHEET 45 OF 87

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



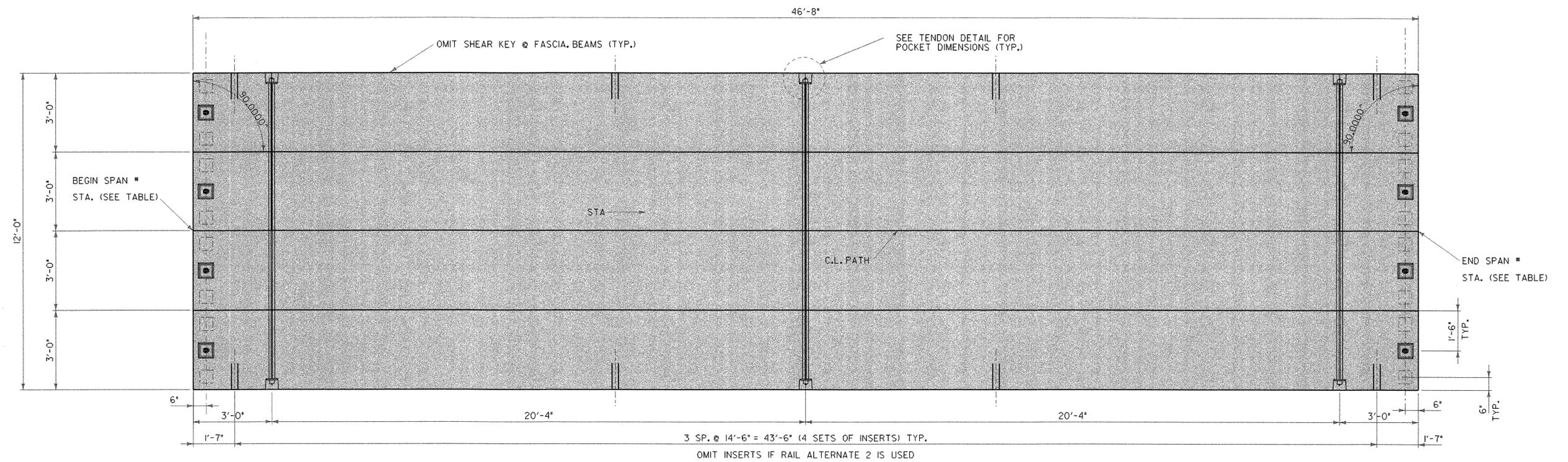
PRESTRESSED SLAB LAYOUT
SPAN 6

SCALE 1/2" = 1'-0"

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINISH.
 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
PROJECT LEADER:	C. KELLER
DESIGNED BY:	J. GEORGE
FILE NAME:	/str5/03f038/sf038pstdet.dgn
DATE:	05-AUG-2003
DRAWN BY:	J. GEORGE
CHECKED BY:	M.E.M.
SHEET	46 OF 87



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

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

SCALE 1/2" = 1'-0"

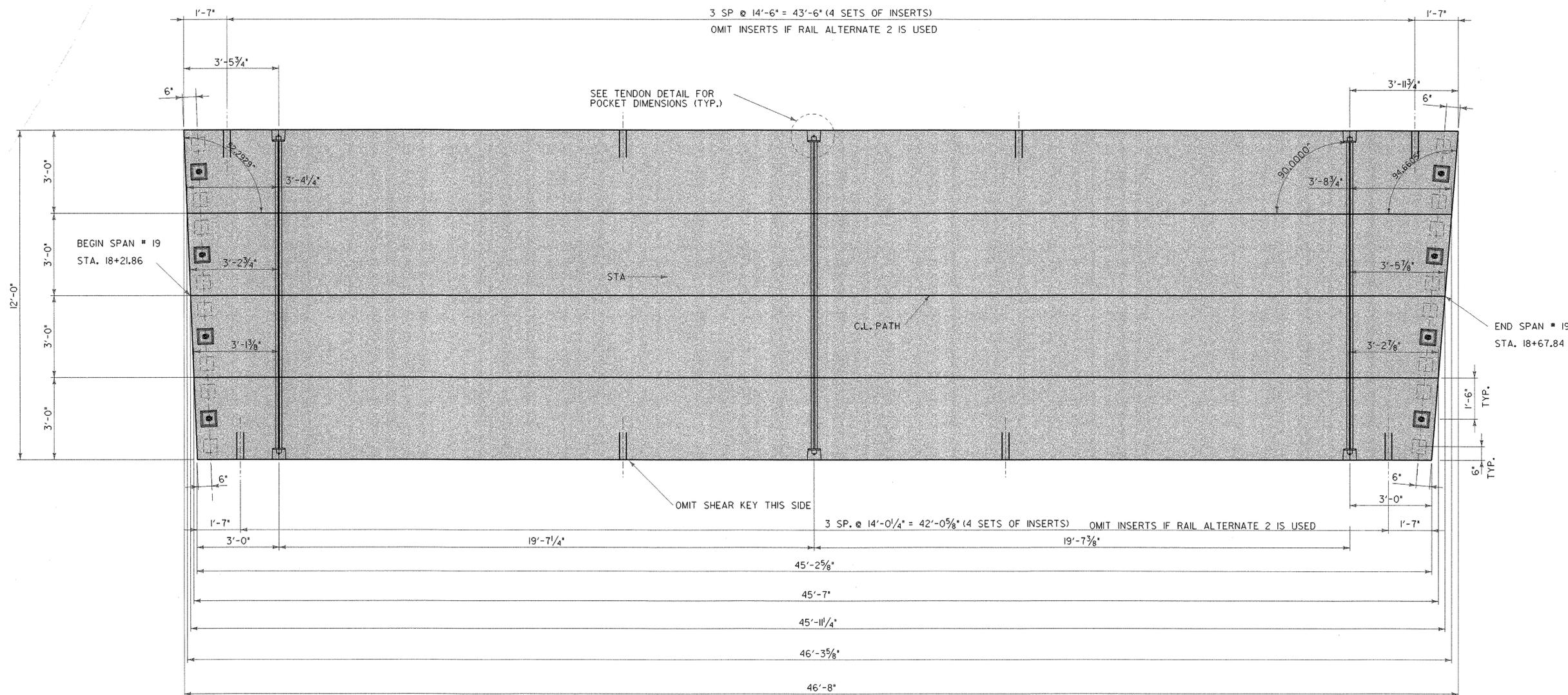
THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINISH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4"

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.
 sf038pstdet9.1 SHEET 47 OF 87



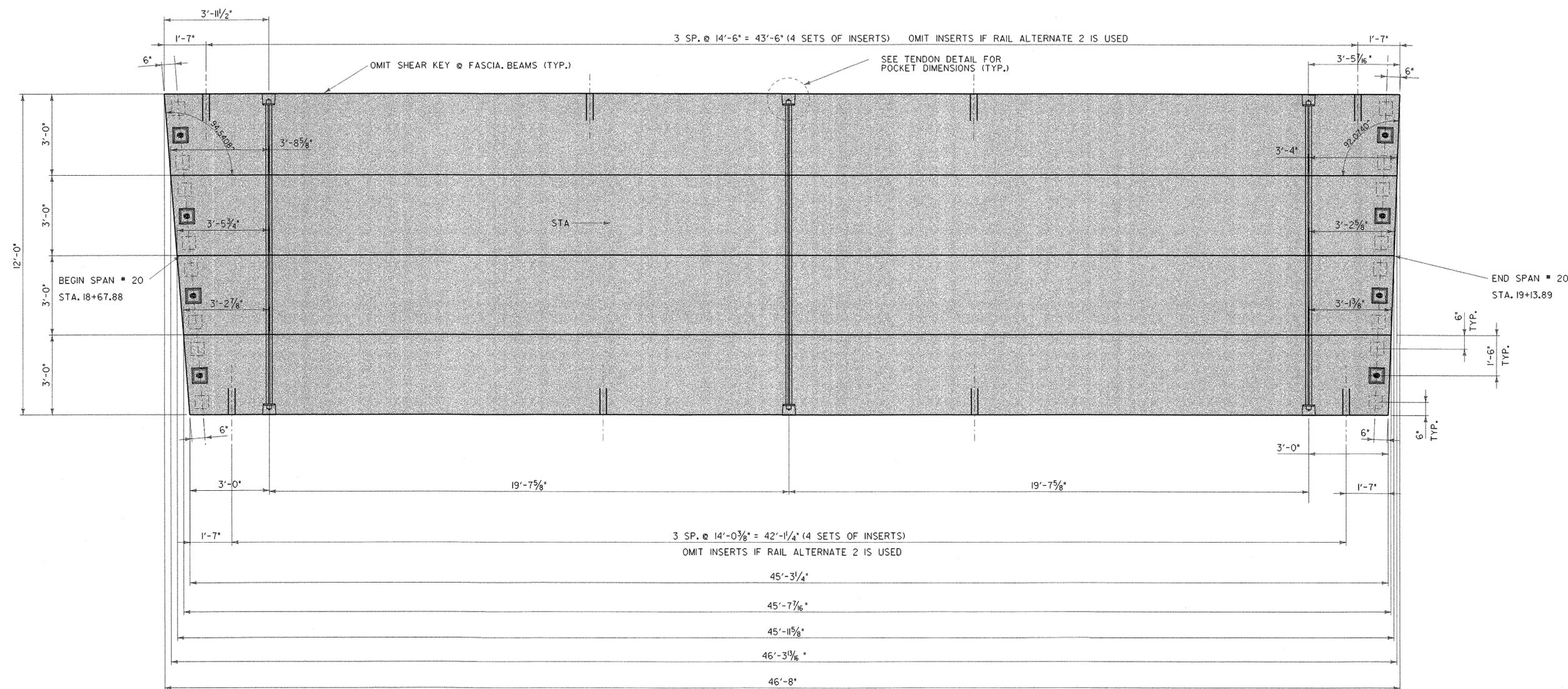
THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINISH. THE GROOVES SHALL BE IN THE TRANSVERSE DIRECTION AND PENETRATE THE SURFACE APPROXIMATELY 1/4"

**PRESTRESSED SLAB LAYOUT
SPAN 19**

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

**SLAB DETAILS
SPAN 19**

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)
FILE NAME:	/str5/03f038/sf038pstdet.dgn
PROJECT LEADER:	C. KELLER
DESIGNED BY:	J. GEORGE
FILE NAME:	sf038pstde+10.i
PLOT DATE:	05-AUG-2003
DRAWN BY:	J. GEORGE
CHECKED BY:	M.E.M.
SHEET	48 OF 87



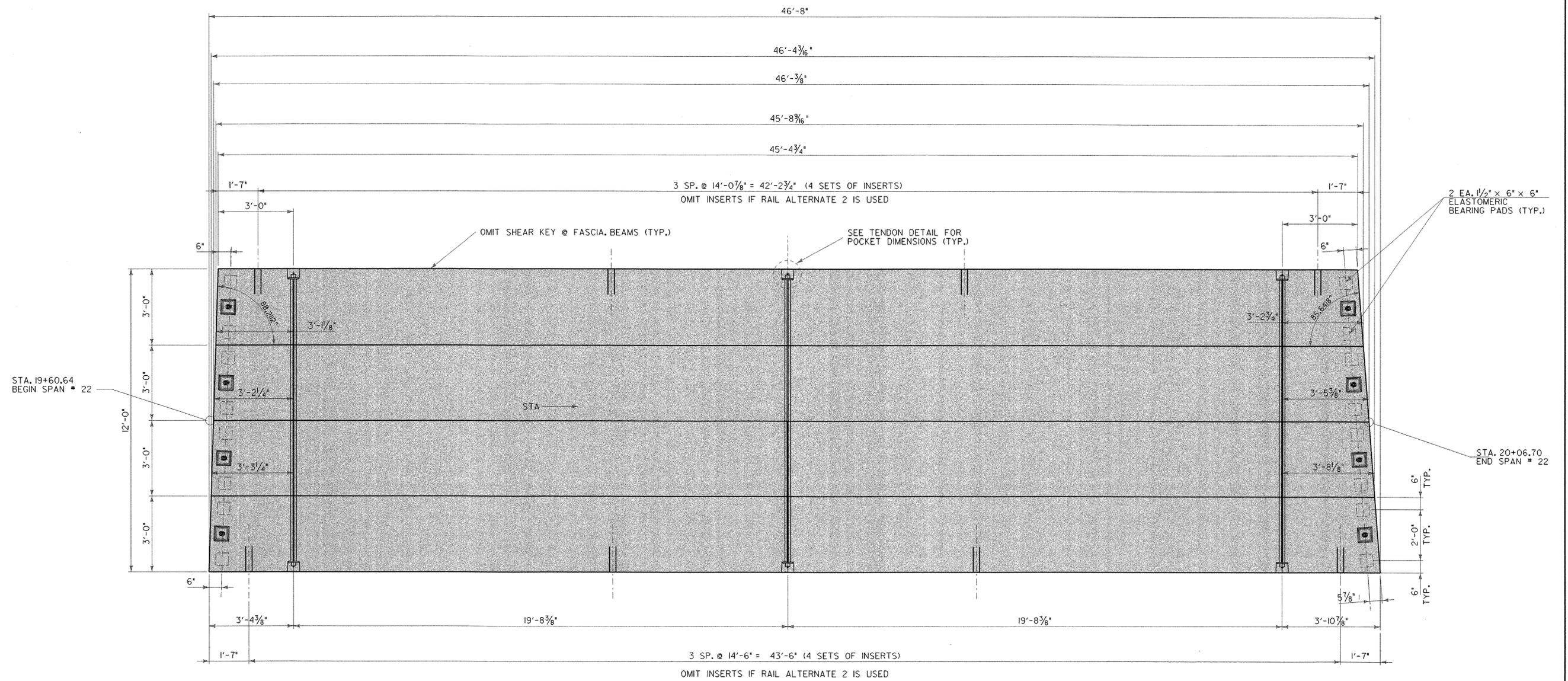
PRESTRESSED SLAB LAYOUT
SPANS 20

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

**SLAB DETAILS
SPAN 20**

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

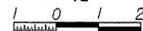
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)
FILE NAME:	/str5/03f038/sf038pstdet.dgn
PLOT DATE:	05-AUG-2003
PROJECT LEADER:	C. KELLER
DRAWN BY:	J. GEORGE
DESIGNED BY:	J. GEORGE
CHECKED BY:	M.E.M.
SHEET	49 OF 87



PRESTRESSED SLAB LAYOUT

SPAN 22

SCALE 1/2" = 1'-0"

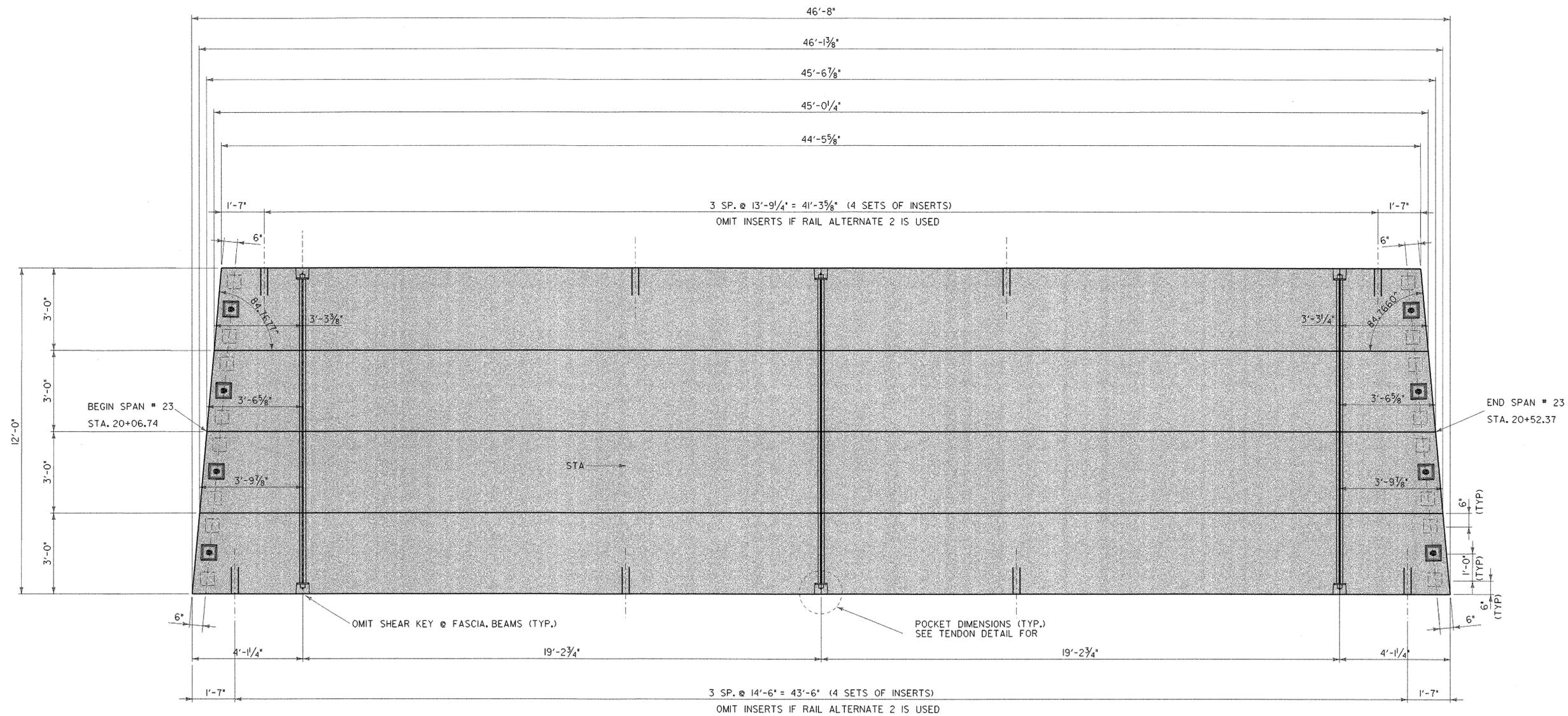


**SLAB DETAILS
SPAN 22**

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

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.
sf038pstdet12.i SHEET 50 OF 87



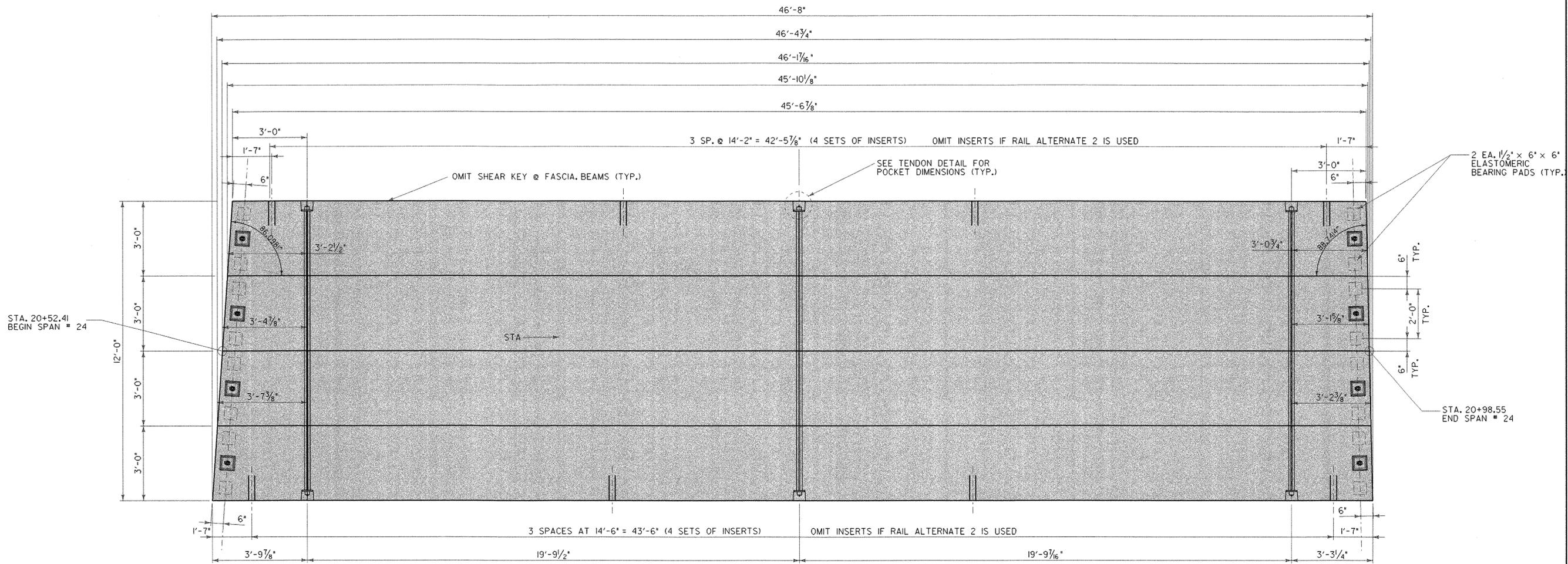
**PRESTRESSED SLAB LAYOUT
SPAN 23**

SCALE 1/2" = 1'-0"

THE TOPS OF THE PRESTRESSED SLABS SHALL BE SCREEDED AND GIVEN A BROOMED OR WIRE BROOM FINISH.
 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
DESIGNED BY:	J. GEORGE
CHECKED BY:	M.E.M.
PROJECT LEADER:	C. KELLER
DRAWN BY:	J. GEORGE
PLOT DATE:	05-AUG-2003
	SHEET 51 OF 87



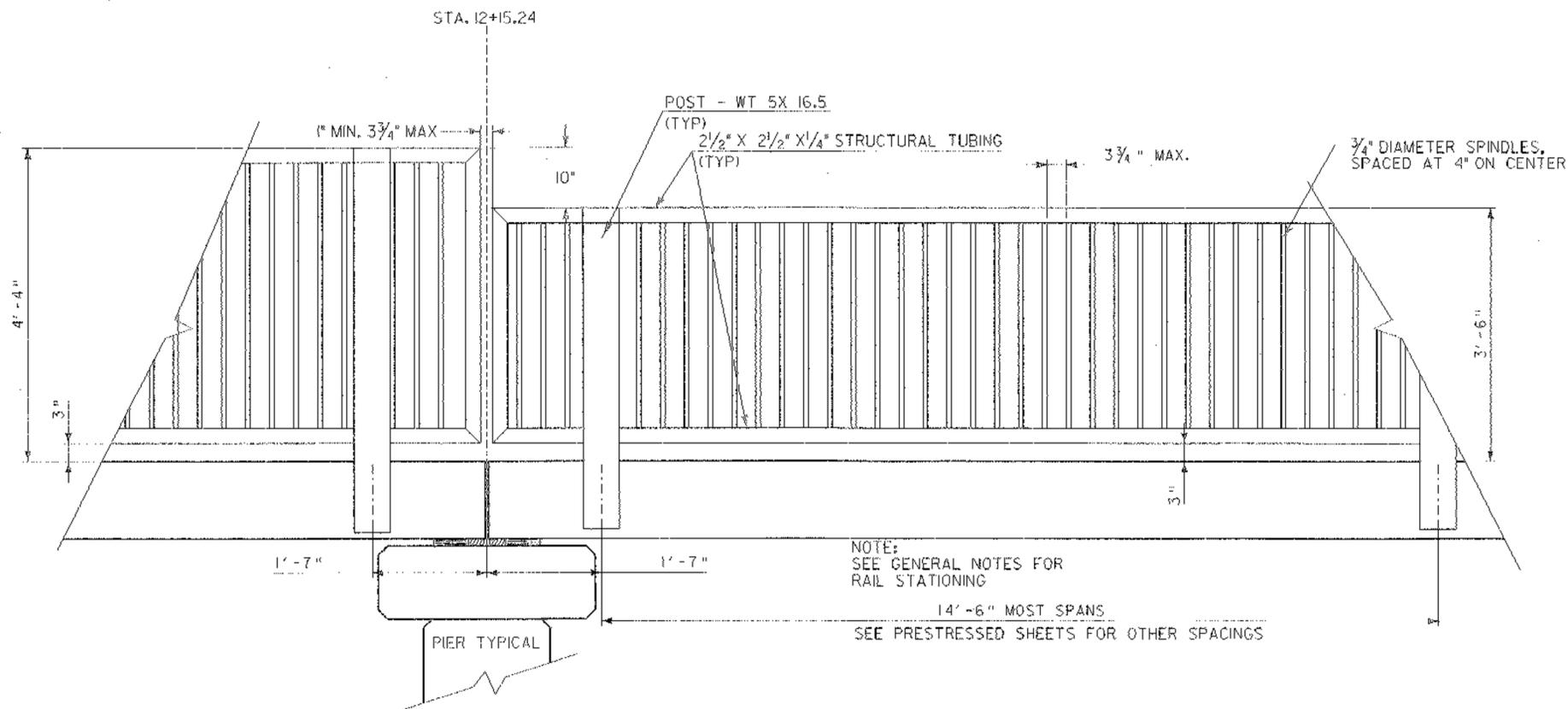
**PRESTRESSED SLAB LAYOUT
SPAN 24**

SCALE 1/2" = 1'-0"

**SLAB DETAILS
SPAN 24**

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

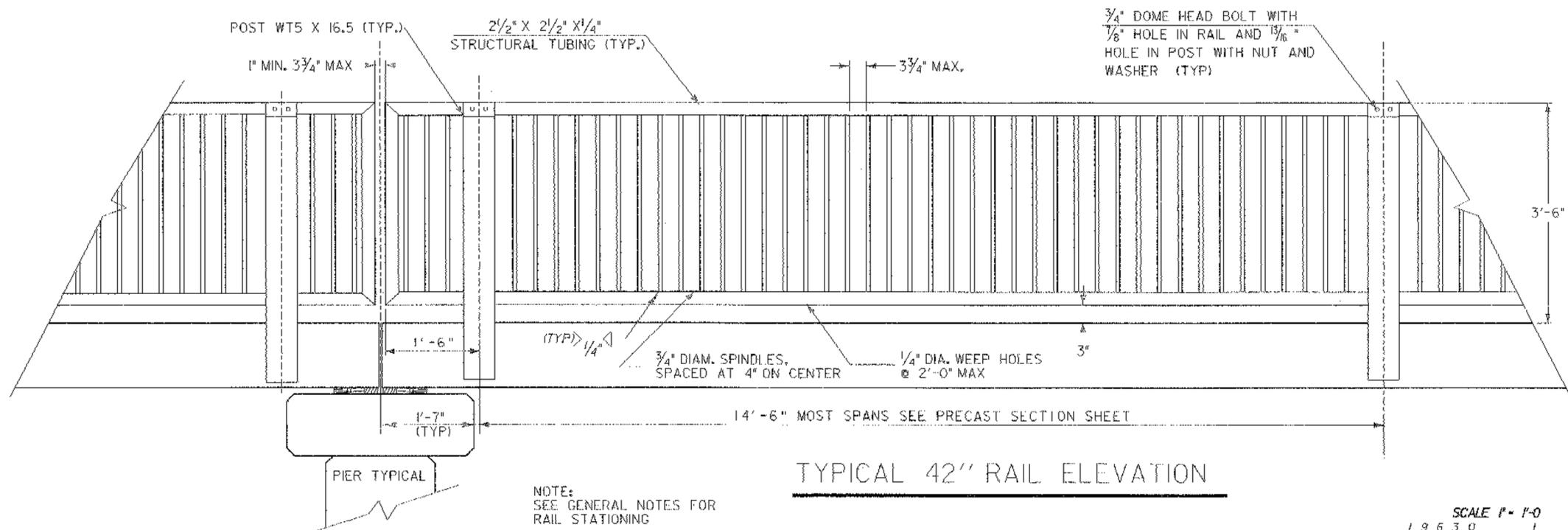
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	STP Bike(48)
FILE NAME:	/str5/03f038/sf038pstdet.dgn
PROJECT LEADER:	C. KELLER
DESIGNED BY:	J. GEORGE
DRAWN BY:	J. GEORGE
CHECKED BY:	M.E.M.
	SHEET 52 OF 87



RAIL ELEVATION @ STA 12+15.24

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

NOT DONE

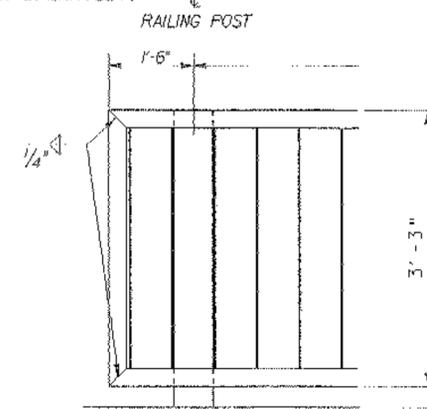


TYPICAL 42" RAIL ELEVATION

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

NOTES

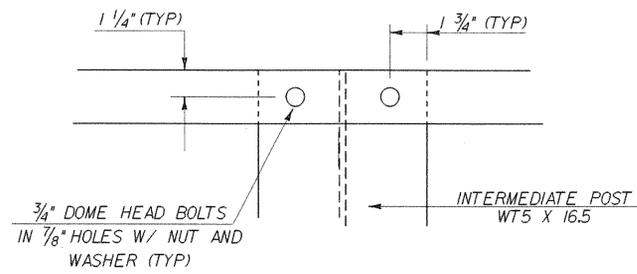
1. ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS SHALL BE ONE OF THE FOLLOWING: ASTM A449 OR AASHTO M164 GALV. TO AASHTO M232
2. POSTS, AND SPINDLES SHALL CONFORM TO AASHTO M270, GR 36.
3. STRUCTURAL TUBING RAILS SHALL CONFORM TO ASTM A-500, GRADE B.
4. WELDING SHALL MEET THE REQUIREMENTS OF SECTION 506.10 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.



WELDING DETAIL
END OF RAIL UNITS
(TYP)

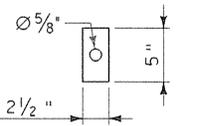
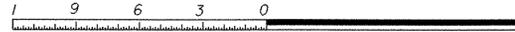
**RAIL DETAILS
ALTERNATE 1**

PROJECT NAME:	COLCHESTER	FILE NAME:	/str/5/03f038/sf038bdr.dgn	PLOT DATE:	05-AUG-2003
PROJECT NUMBER:	STP BIKE(48)	PROJECT LEADER:	C. KELLER	DRAWN BY:	J. GEORGE
		DESIGNED BY:	J. GEORGE	CHECKED BY:	M.E.M.
			sf038r.dwg	SHEET	53 OF 87

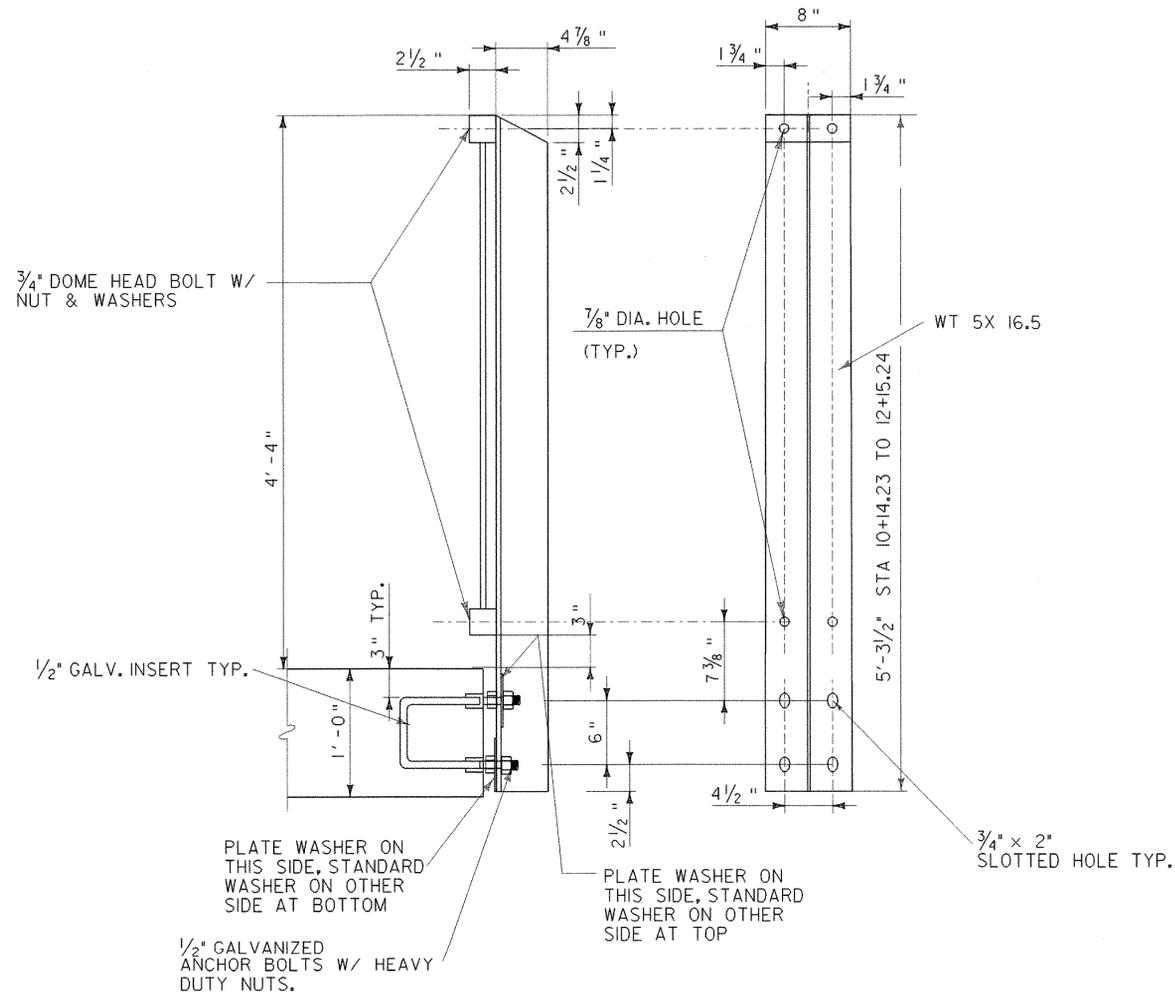


BOLTING DETAIL "A"

SCALE 3" = 1'-0"

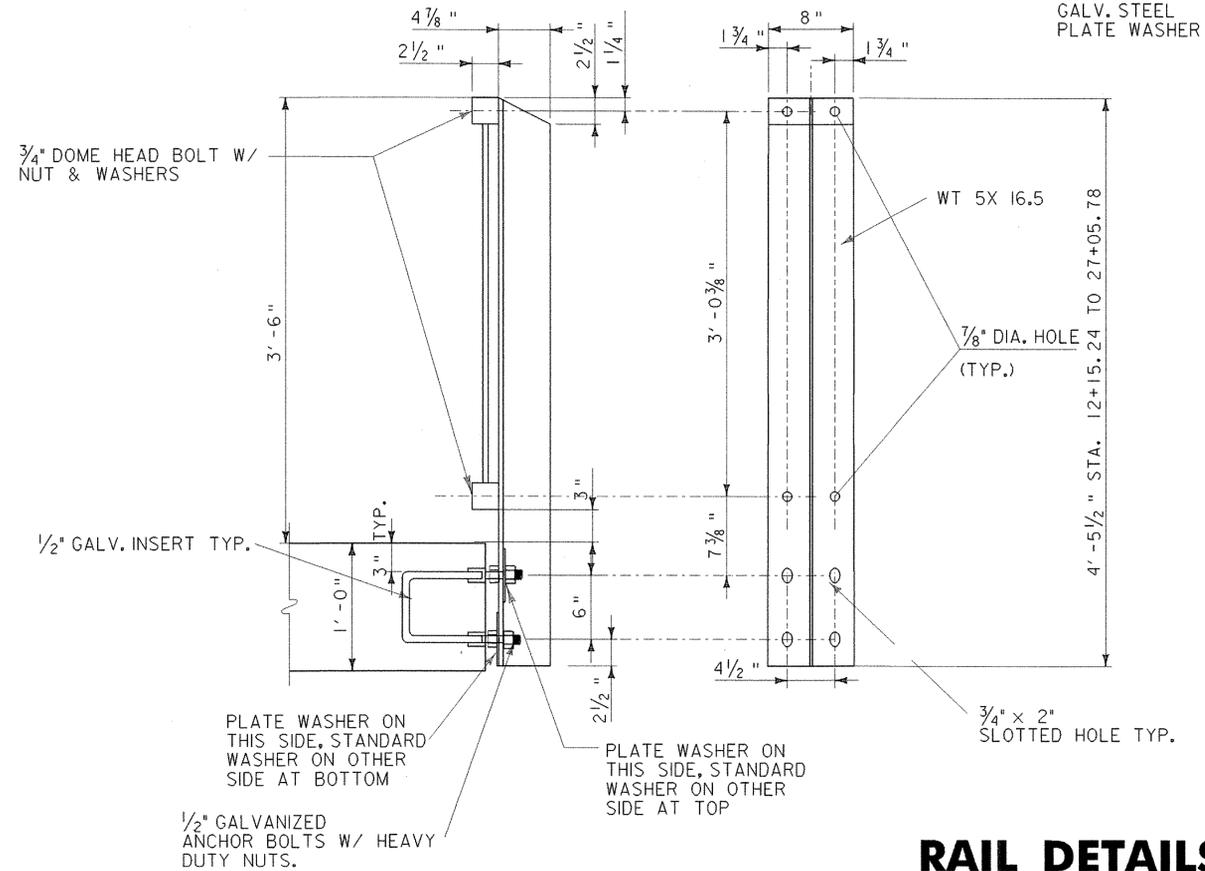
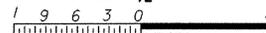


GALV. STEEL
PLATE WASHER



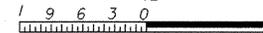
SECTION FASCIA MOUNTED 52" RAIL

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



SECTION FASCIA MOUNTED 42" RAIL

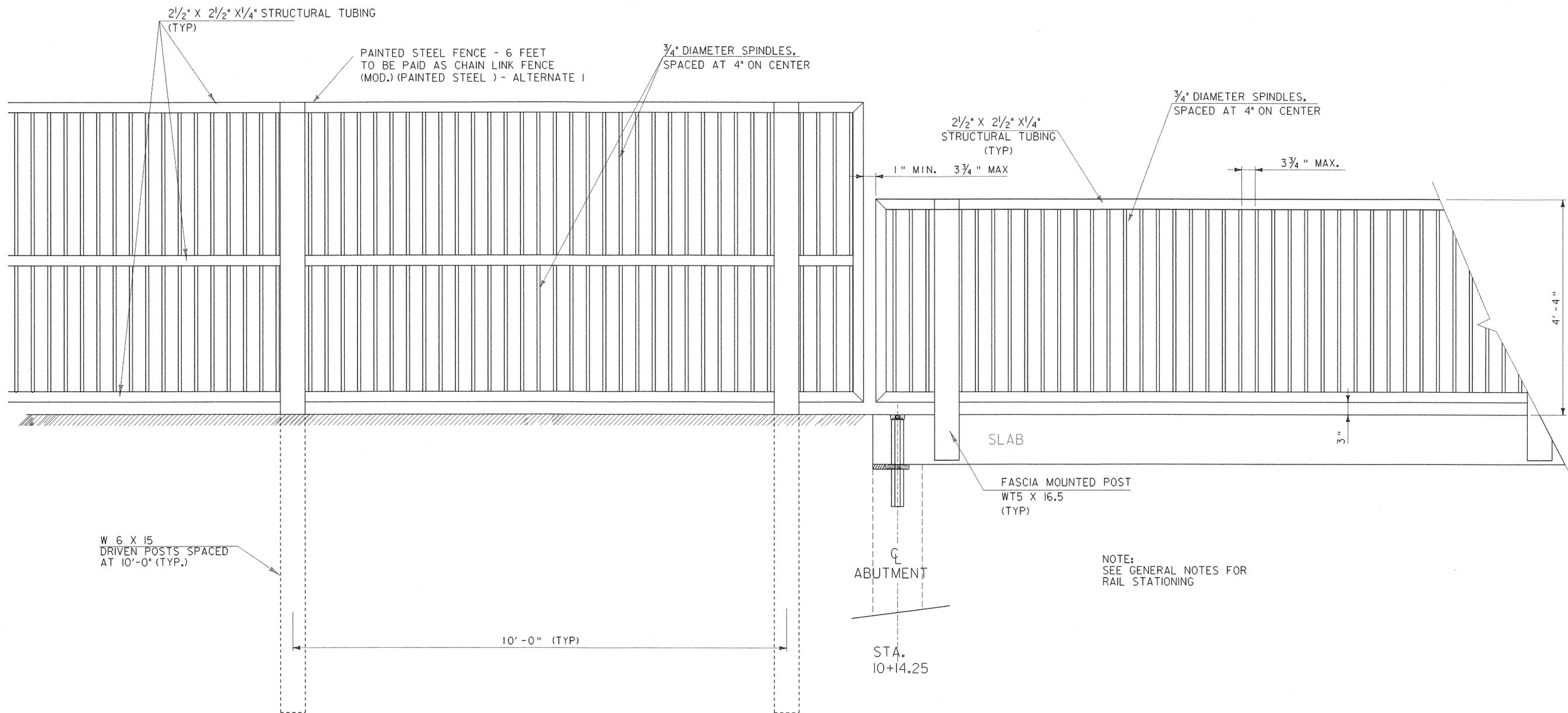
SCALE 1 1/2" = 1'-0"



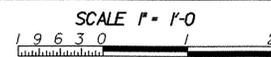
**RAIL DETAILS
ALTERNATE 1**

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.
sf038r-012.i SHEET 54 OF 87



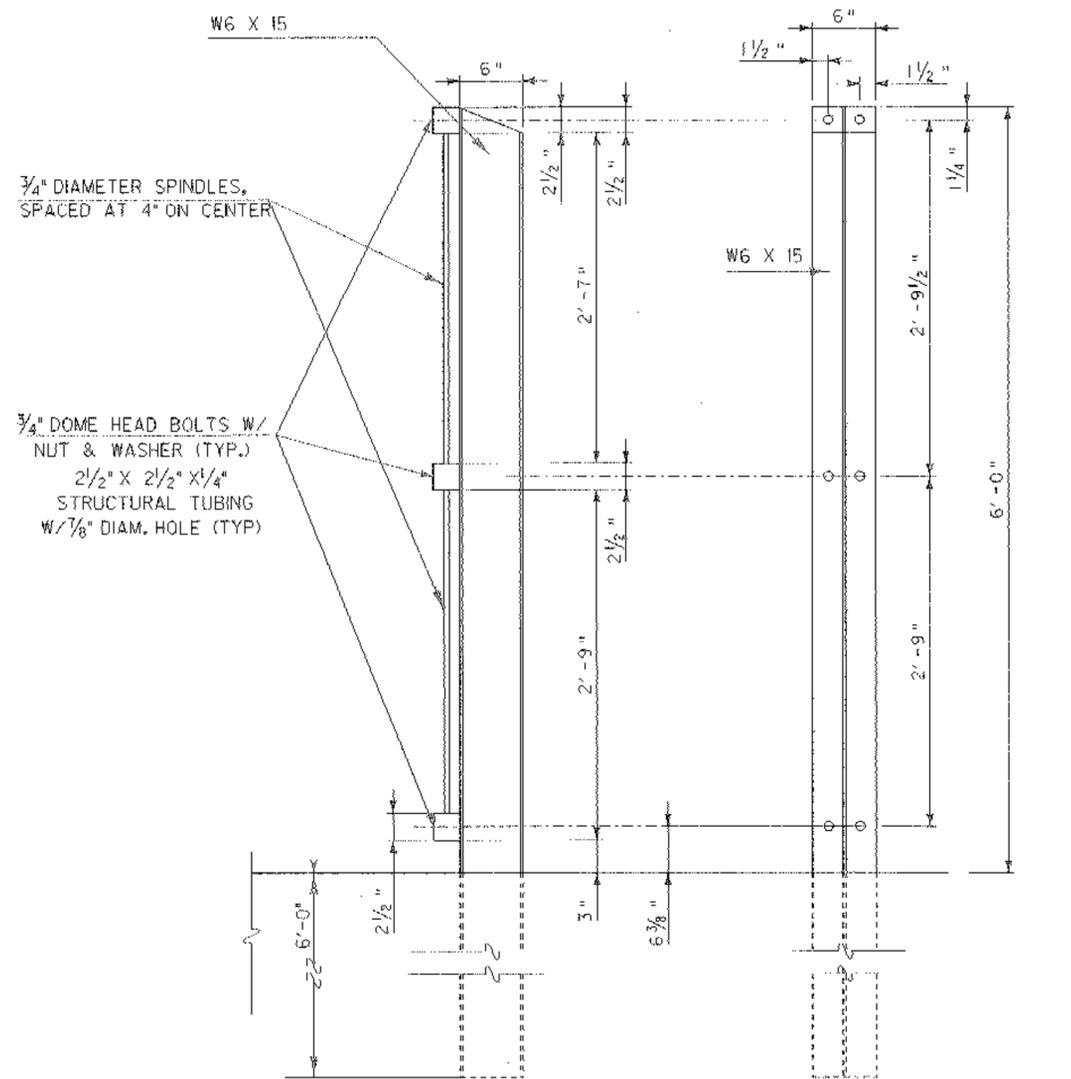
RAIL ELEVATION @ STA 10+14.25



**RAIL DETAILS
ALTERNATE 1**

PROJECT NAME: COLCHESTER	PLOT DATE: 05-AUG-2003
PROJECT NUMBER: STP BIKE(48)	DRAWN BY: J. GEORGE
FILE NAME: /str5/03f038/sf038bdr.dgn	CHECKED BY: M.E.M.
DESIGNED BY: J. GEORGE	SHEET 55 OF 87
sf038rail3.1	

NOTE:
SEE GENERAL NOTES FOR
RAIL STATIONING

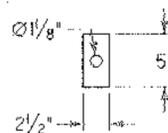


SIDE ELEVATION

BACK ELEVATION

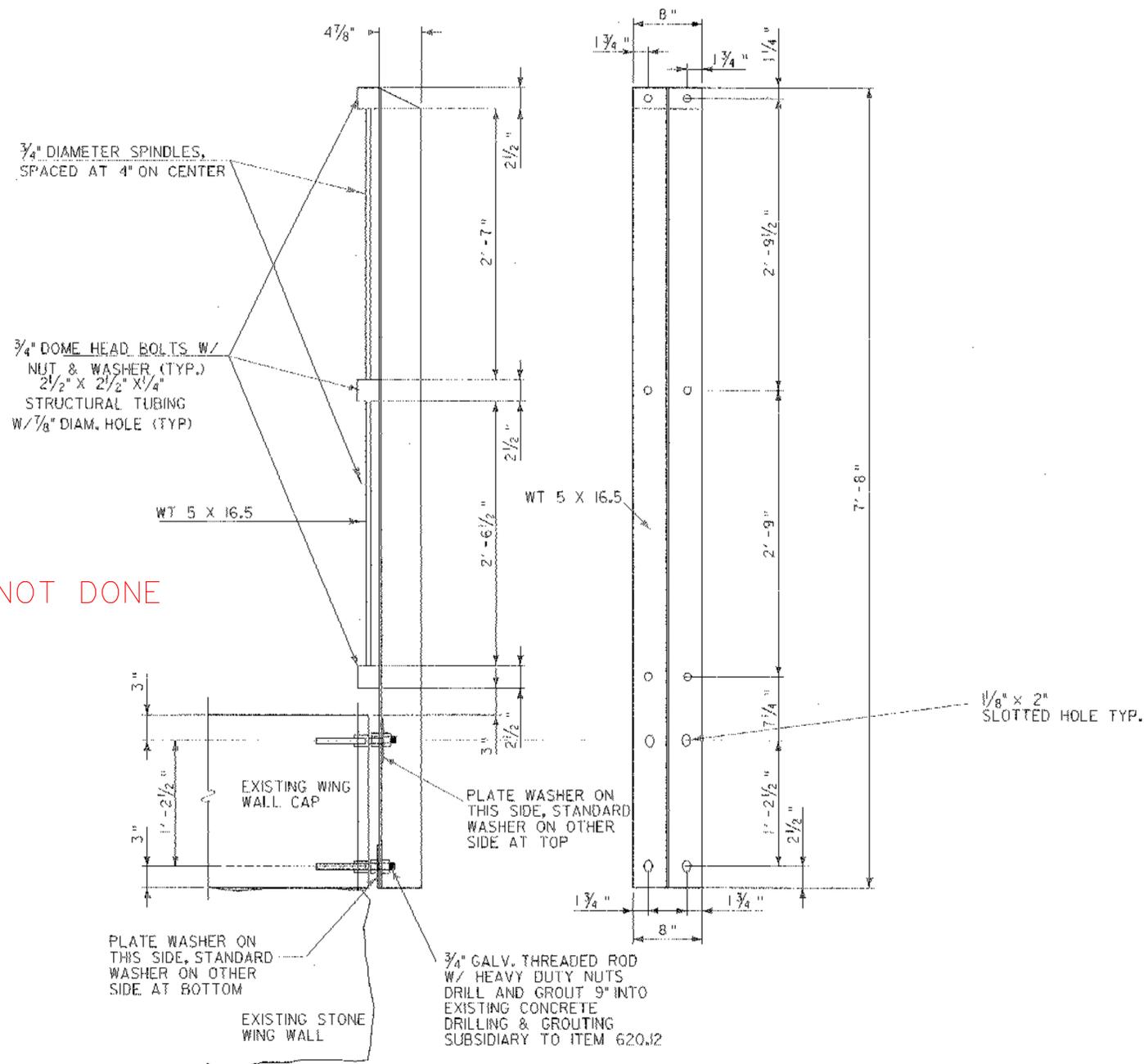
SECTION
DRIVEN POST MOUNTED FENCE

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



GALV. STEEL PLATE WASHER
FOR 1/8" x 2"
SLOTTED HOLE TYP.

NOT DONE



SECTION
FASCIA MOUNTED FENCE

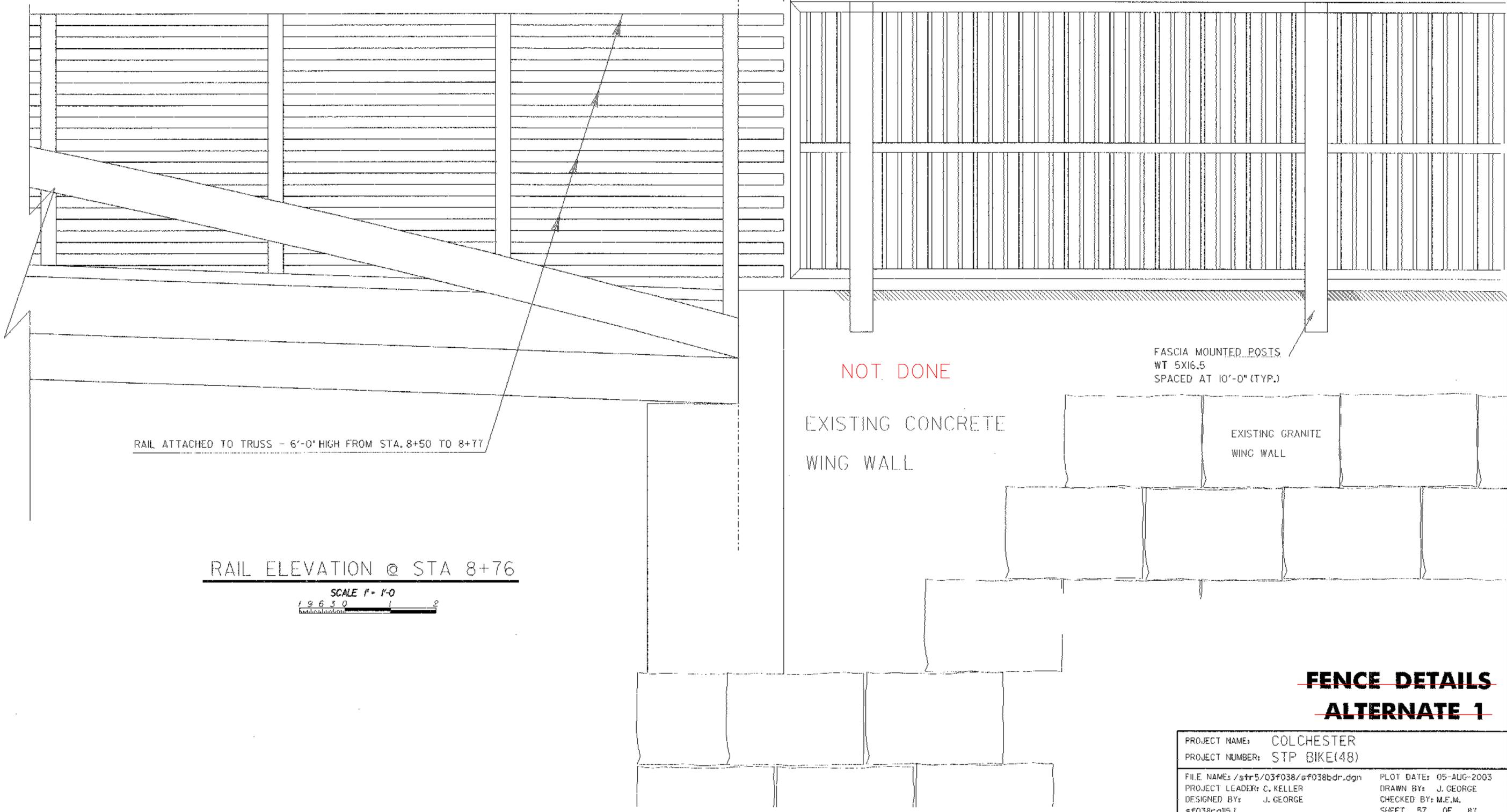
SCALE 1 1/2" = 1'-0"
1 9 6 3 0

FENCE DETAILS
ALTERNATE 1

PROJECT NAME: COLCHESTER	PLOT DATE: 05-AUG-2003
PROJECT NUMBER: STP BIKE(48)	DRAWN BY: J. GEORGE
FILE NAME: /str5/03f038/sf038bdr.dgn	CHECKED BY: M.E.M.
PROJECT LEADER: C. KELLER	SHEET 56 OF 87
DESIGNED BY: J. GEORGE	
sf038r0114.1	

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

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

EXISTING CONCRETE
WING WALL

EXISTING GRANITE
WING WALL

RAIL ELEVATION @ STA 8+76

SCALE 1" = 1'-0"
1 9 6 3 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
sf038r015.r

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

NOTES

RAIL SYSTEM SHALL BE MASTER-HALCO COMMERCIAL CLASSIC PREMIER, ORNAMENTAL 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 $\frac{3}{4}$ " 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

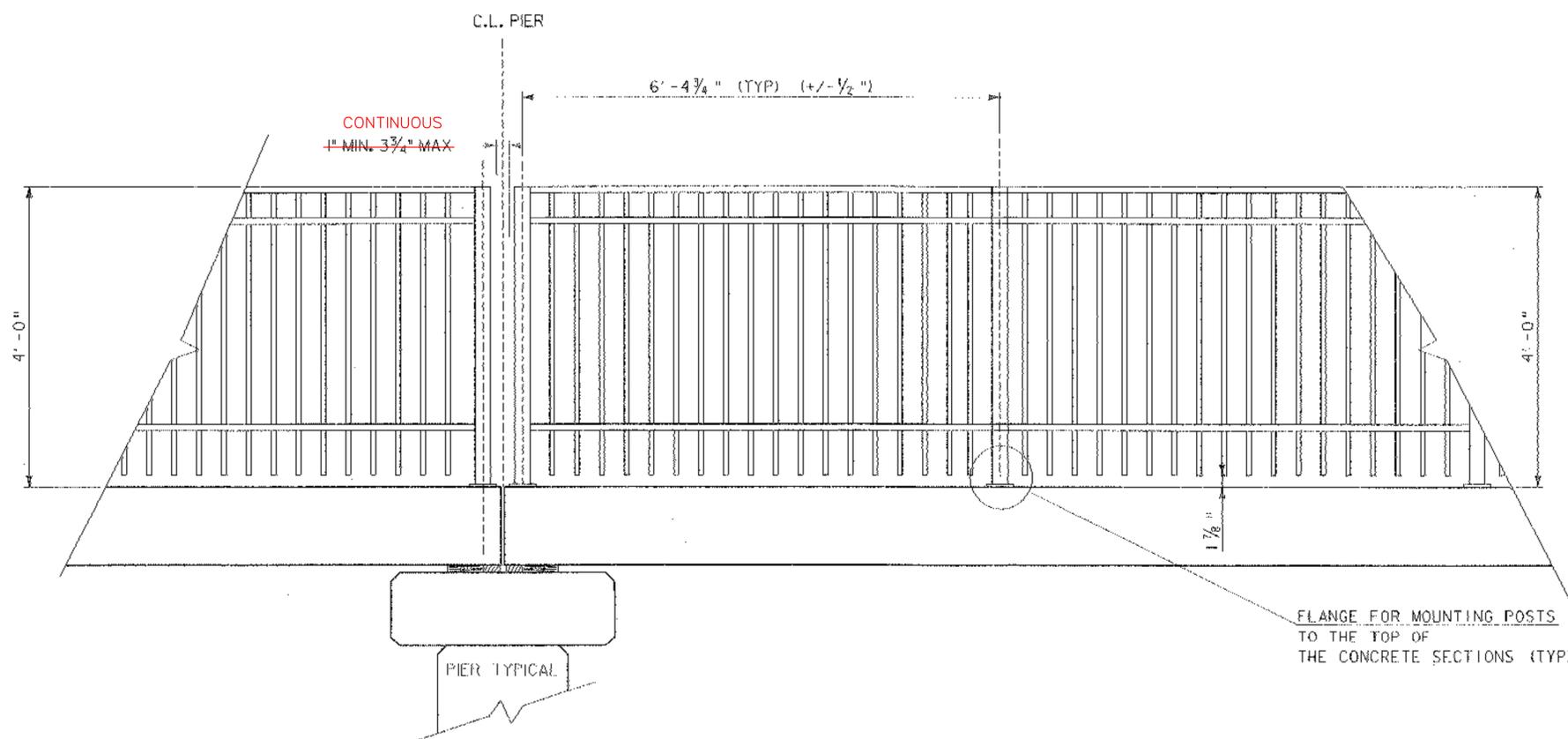
Galvanized steel fence components shall be subjected to a six-stage wash and pre-treated system which includes a zinc phosphatizer and a non-chromate sealer.

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" sq. 14 ga. All intersections of gate material shall be joined by welding.

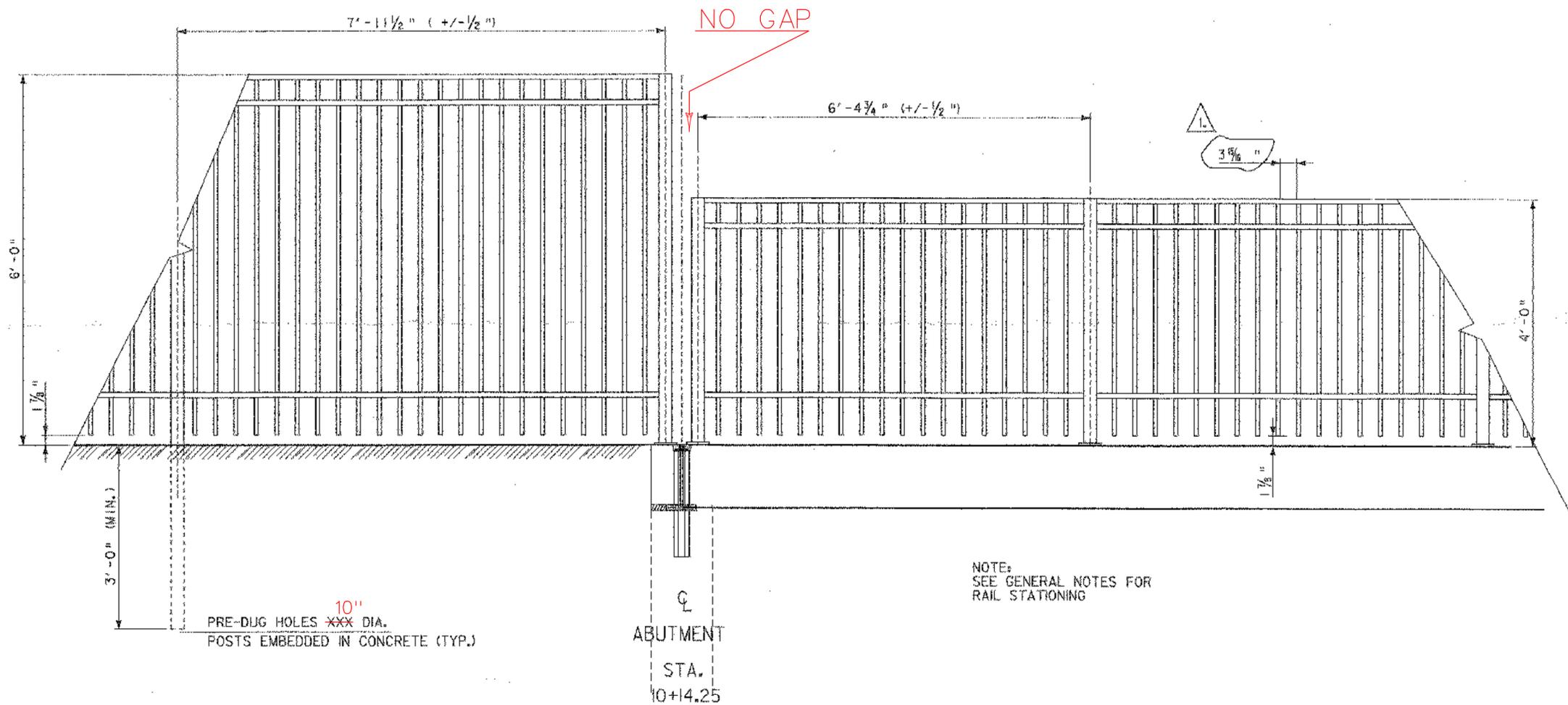


RAIL ELEVATION

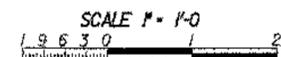
SCALE 1" = 1'-0"

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.
sf038-r016.1	SHEET 61 OF 87



RAIL ELEVATION @ STA 10+14.25



REVISD 8/27/2003

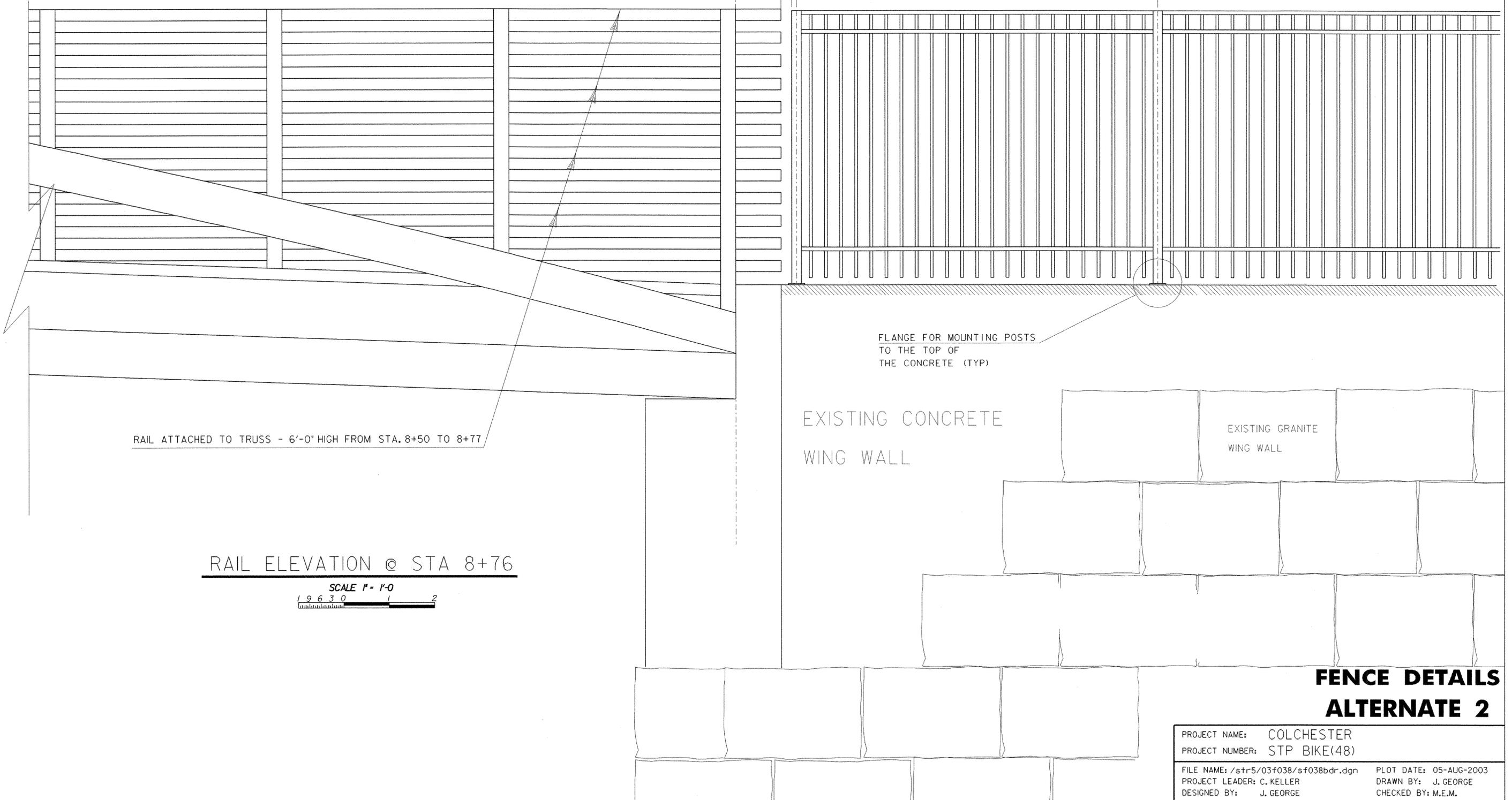
**RAIL DETAILS
ALTERNATE 2**

PROJECT NAME: COLCHESTER	PLOT DATE: 27-AUG-2003
PROJECT NUMBER: STP BIKE(48)	DRAWN BY: J. GEORGE
FILE NAME: /str5/03f038/sf038bdr.dgn	CHECKED BY: M.E.M.
PROJECT LEADER: C. KELLER	SHEET 62 OF 87
DESIGNED BY: J. GEORGE	
sf038-rail7.r	

END BRIDGE #3
STA 8+76

7' - 11 1/2" (+/- 1/2") (TYP)

1" MIN. 3" MAX



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

FLANGE FOR MOUNTING POSTS
TO THE TOP OF
THE CONCRETE (TYP)

EXISTING CONCRETE
WING WALL

EXISTING GRANITE
WING WALL

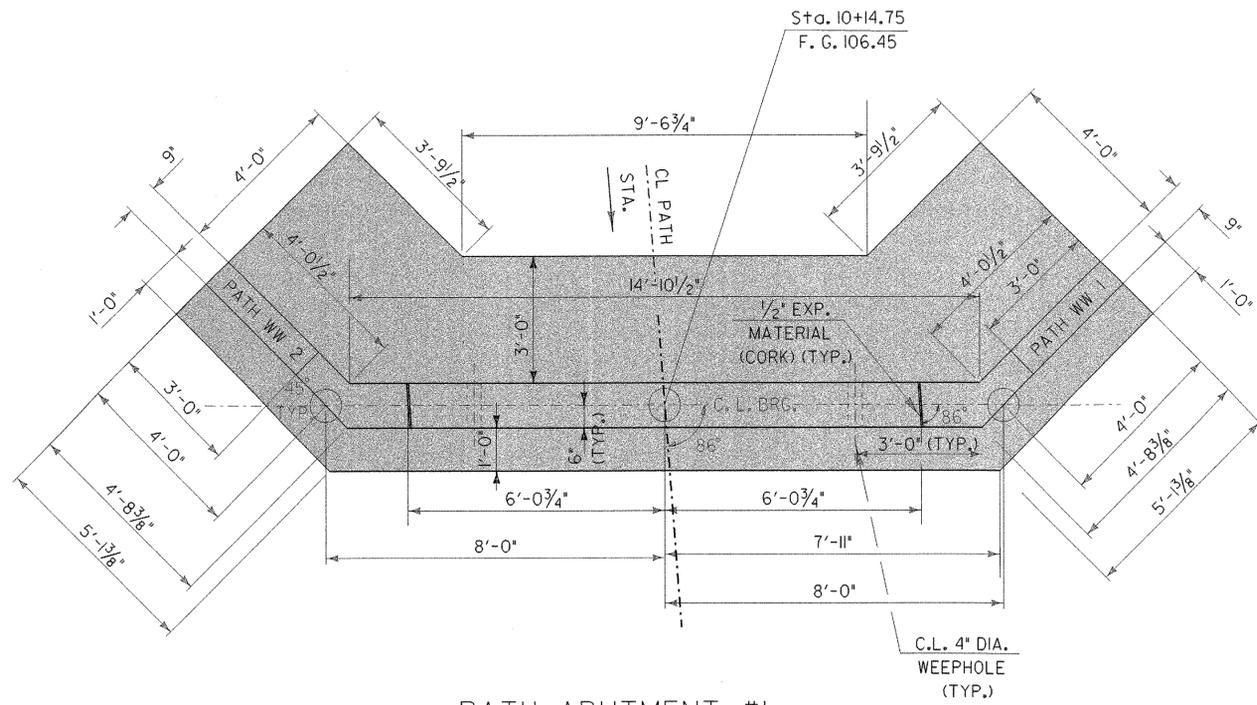
RAIL ELEVATION @ STA 8+76

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

**FENCE DETAILS
ALTERNATE 2**

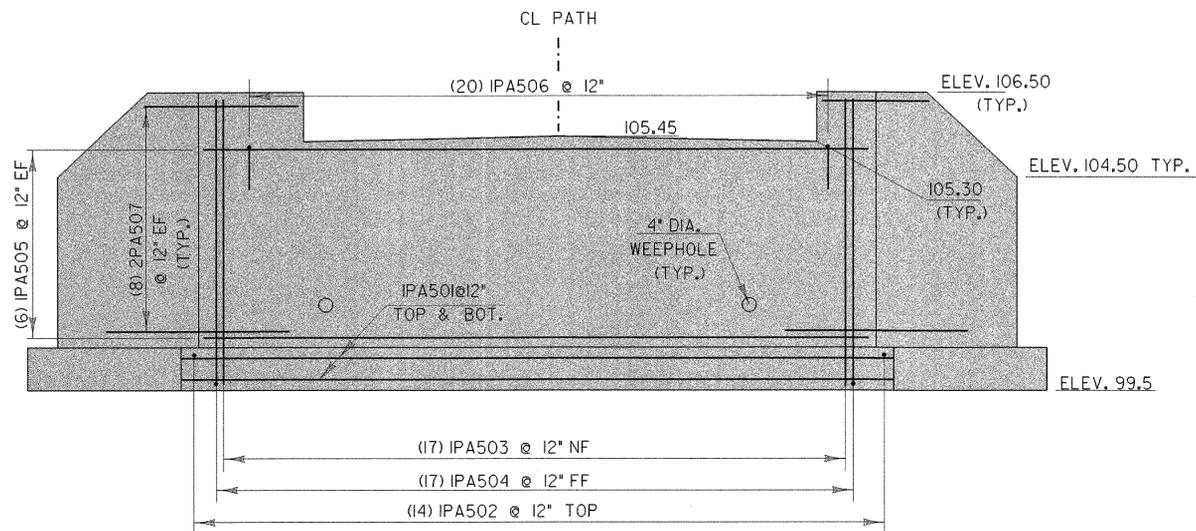
PROJECT NAME: COLCHESTER
PROJECT NUMBER: STP BIKE(48)

FILE NAME: /str5/03f038/sf038bdr.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. KELLER	DRAWN BY: J. GEORGE
DESIGNED BY: J. GEORGE	CHECKED BY: M.E.M.
sf038ra18.i	SHEET 63 OF 87



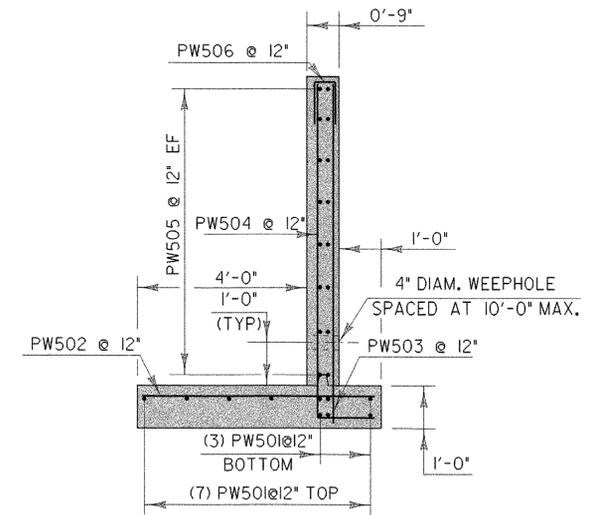
PATH ABUTMENT #1
PLAN

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



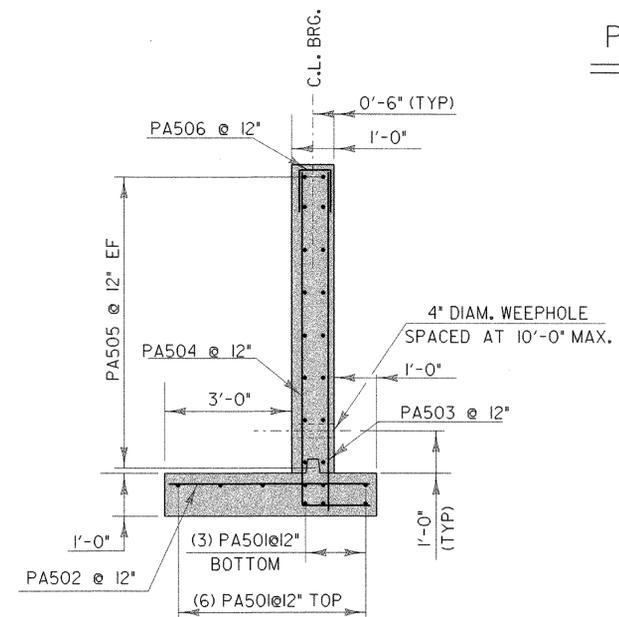
PATH ABUTMENT #1
ELEVATION

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



PATH WINGWALL TYPICAL

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



PATH ABUTMENT TYPICAL

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. sf038pa2J
Highway No. BIKE PATH Log Sta. Sur. Sta.

PATH ABUTMENT #1 (STA 10+14)

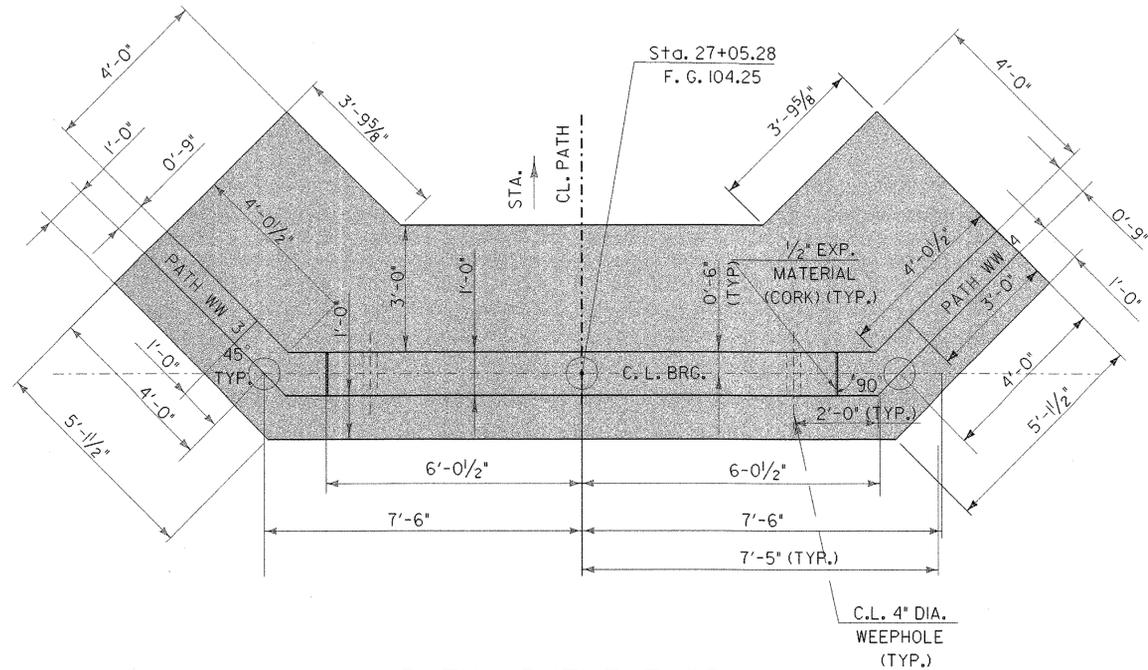
LAYOUT AND REINFORCING

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)

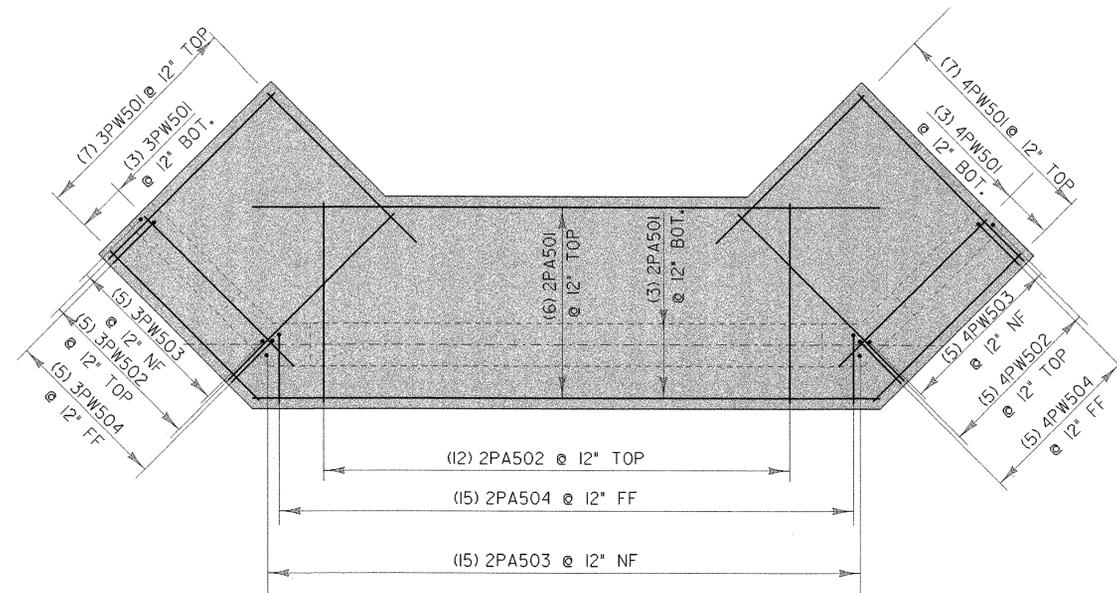
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Bridge Sheet No. Sheet 66 of 87



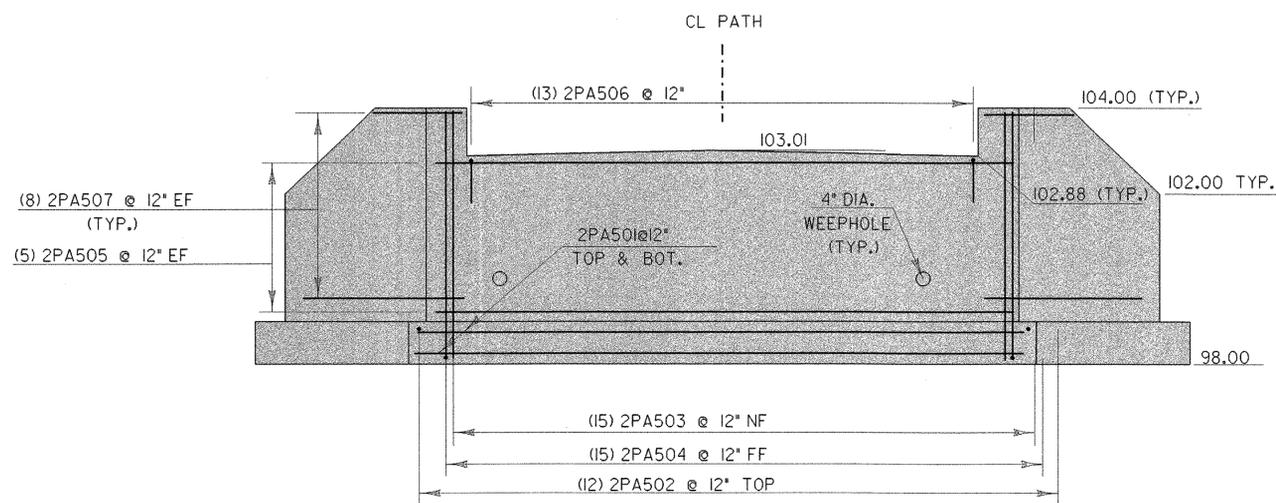
PATH ABUTMENT #2
PLAN

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.	sf132pa21
Highway No.	BIKE PATH	Log Sta.	
		Surv. Sta.	

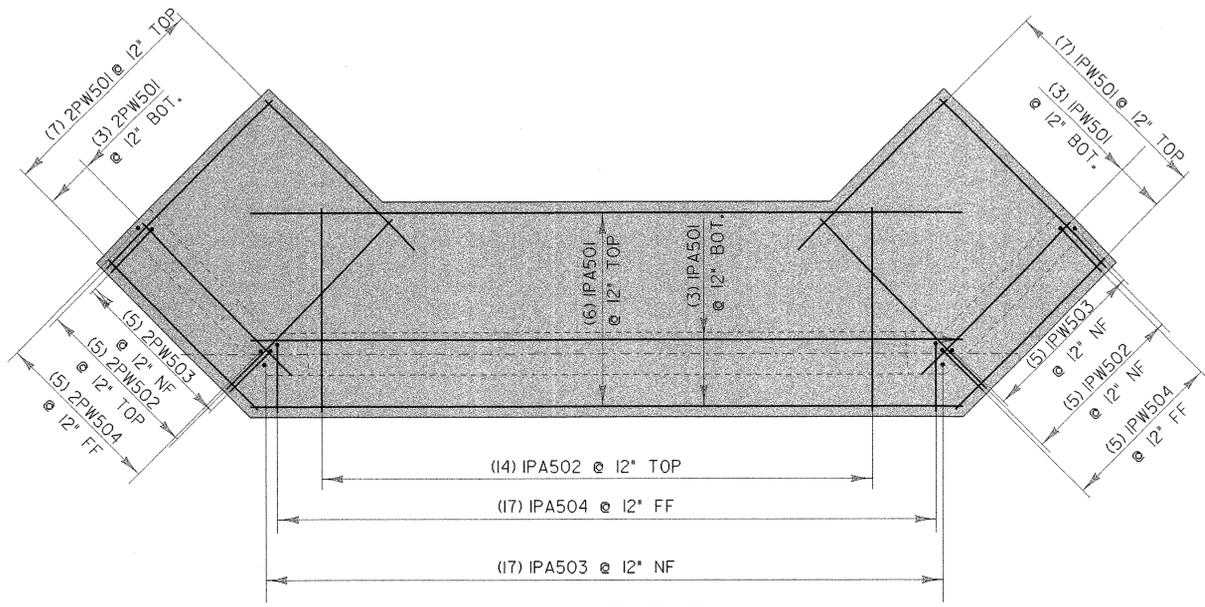
PATH ABUTMENT #2 (STA 27+05)

LAYOUT AND REINFORCING

Designed By	M.EVANS-MONGEON	Drawn By	M.EVANS-MONGEON
Checked By	Date	Bridge Design Supervisor	Date
		C.S.KELLER	

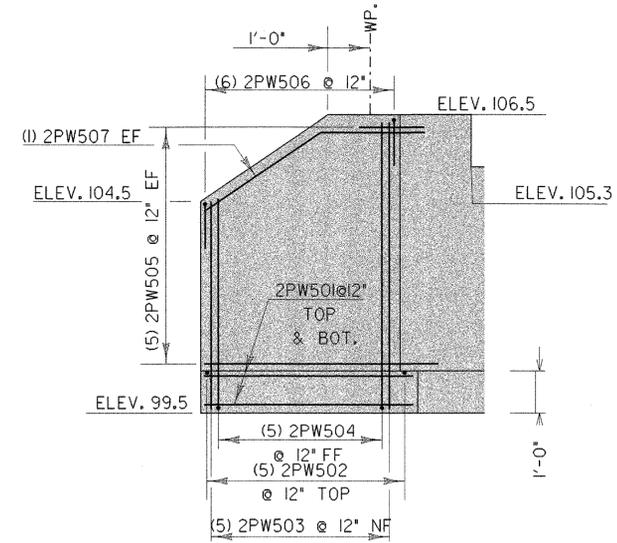
PROJECT	COLCHESTER	PROJECT NO.	STP BIKE(48)
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Bridge Sheet No.	Sheet 67 of 87



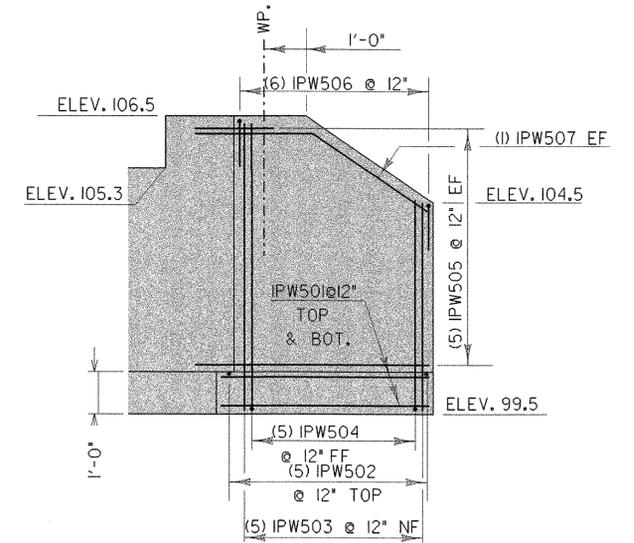
PATH ABUTMENT #1
FOOTING REINFORCING

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



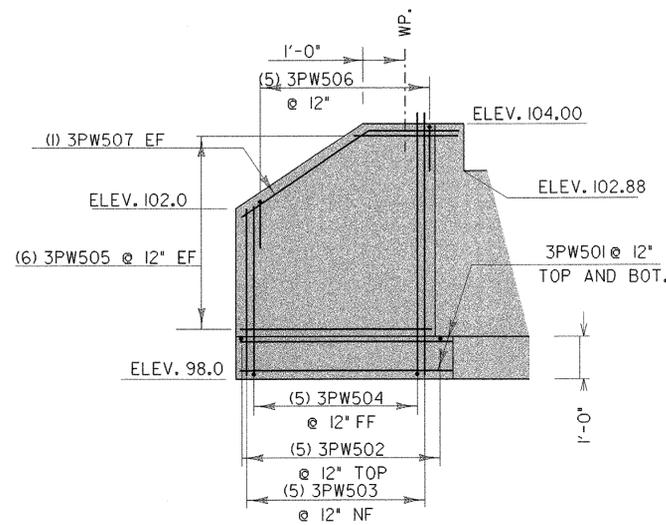
PATH WINGWALL #2
ELEVATION

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



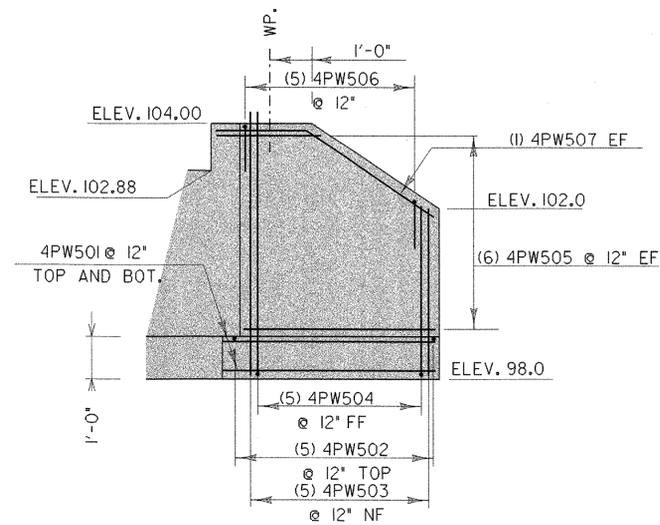
PATH WINGWALL #1
ELEVATION

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



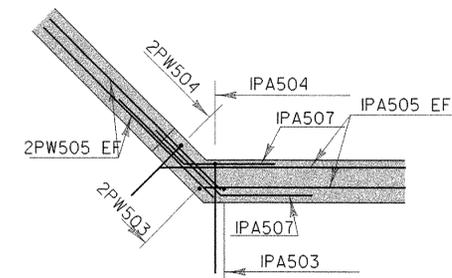
PATH WINGWALL #3
ELEVATION

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

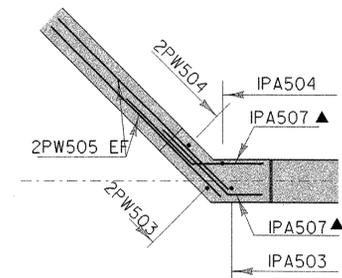


PATH WINGWALL #4
ELEVATION

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



BELOW BRIDGE SEAT
ELEVATION



ABOVE BRIDGE SEAT
ELEVATION

PATH ABUTMENT #1
CORNER DETAILS

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.	sf038pwj
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	Date
		C.S.KELLER	
PROJECT	COLCHESTER	PROJECT NO.	STP BIKE(48)
I:\G:\w\ocadd\11\ngcabinet\03f038\Structures\sf038bdr.dgn		sf038pwj	
Bridge Sheet No.	Sheet 68 of 87		

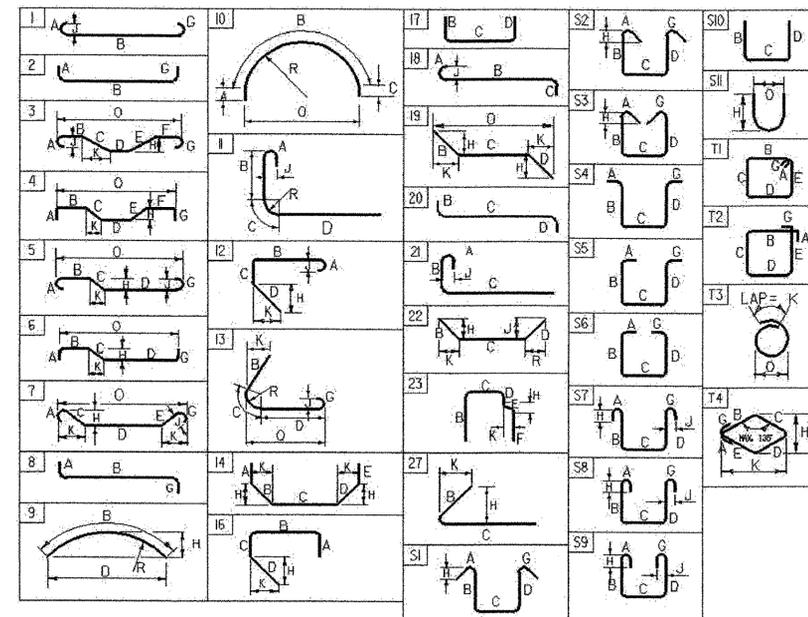
STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	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	Z2				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	Z2				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	Z2				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	Z2				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	Z2				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	Z2				3'-7"	2'-2"					2'-0"		3'-0"																								
Concrete Walkway																																								
▲ 92	4	19'-6"	CW401	STR																																				
▲ 70	4	19'-6"	CW402	STR																																				

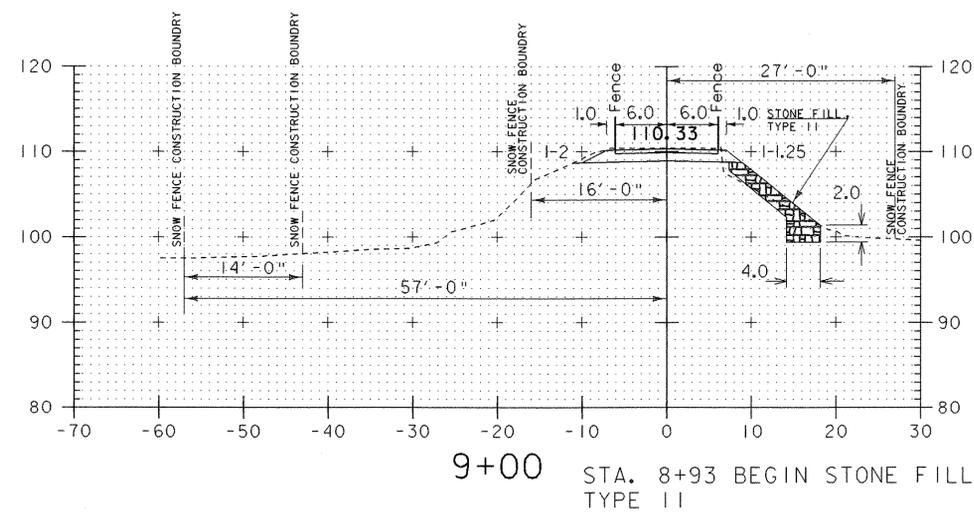
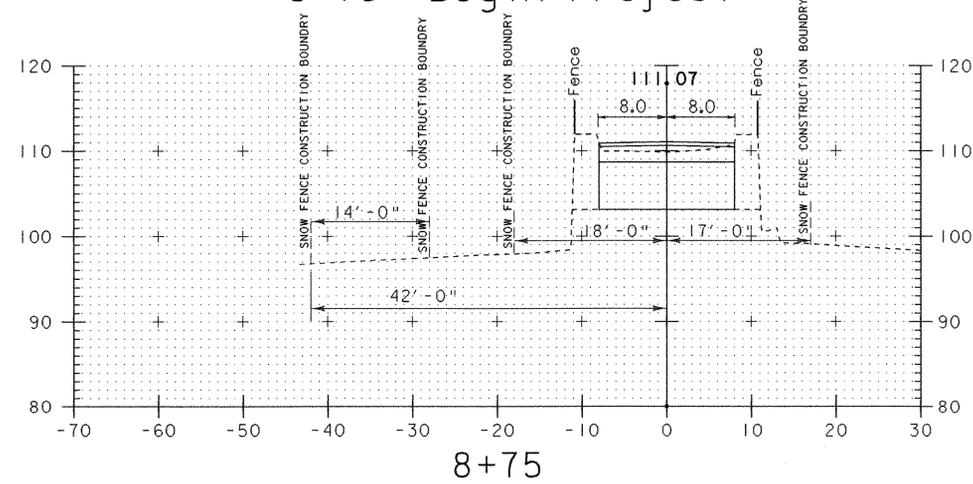
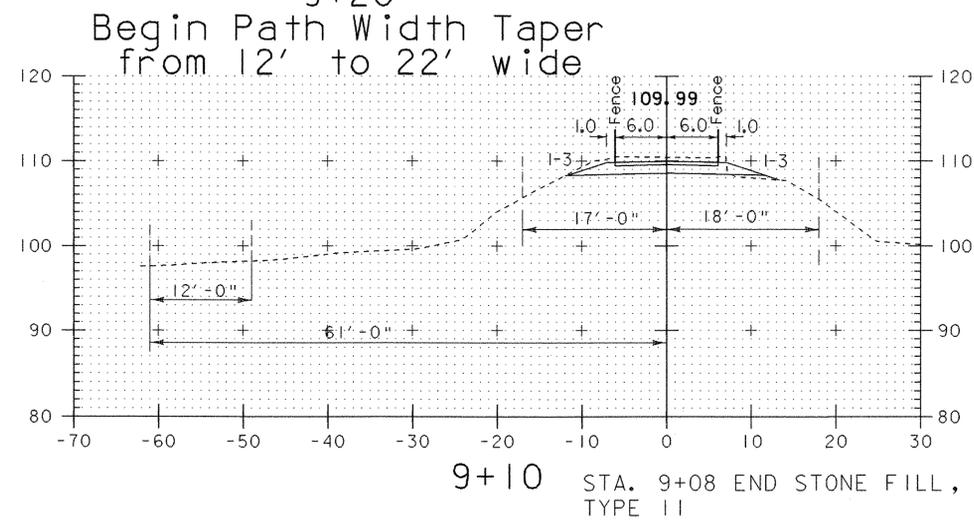
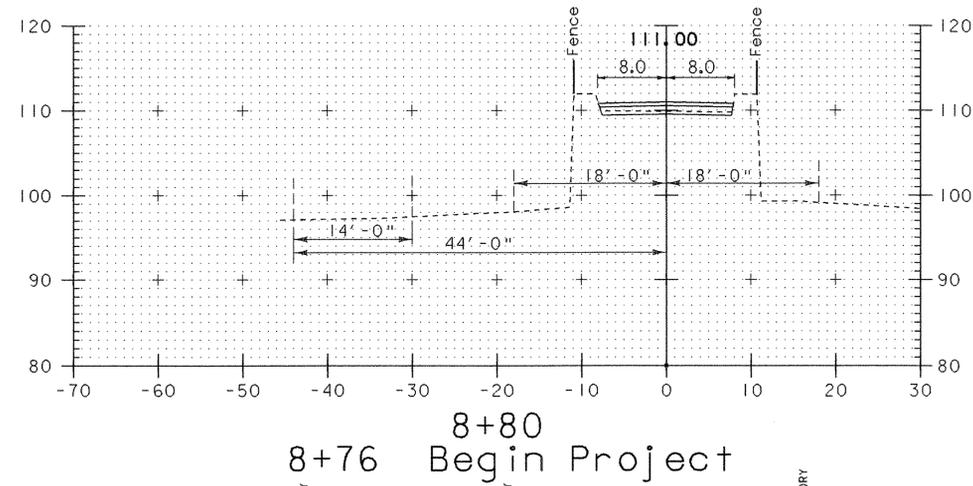
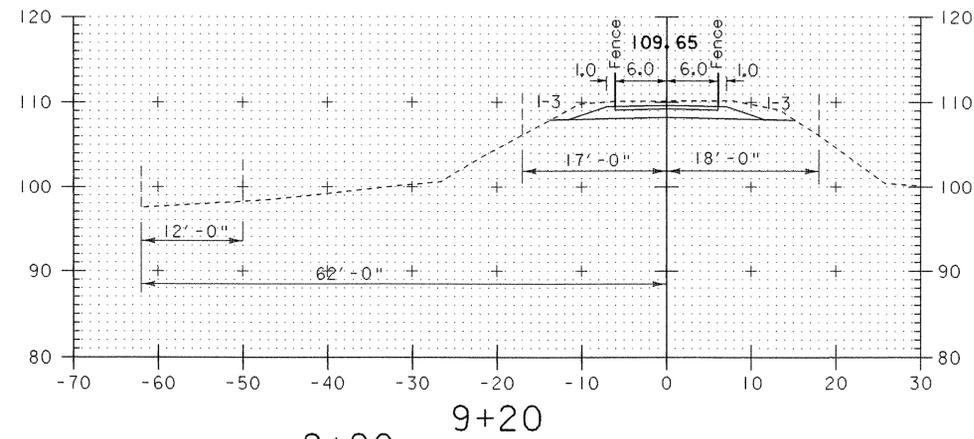
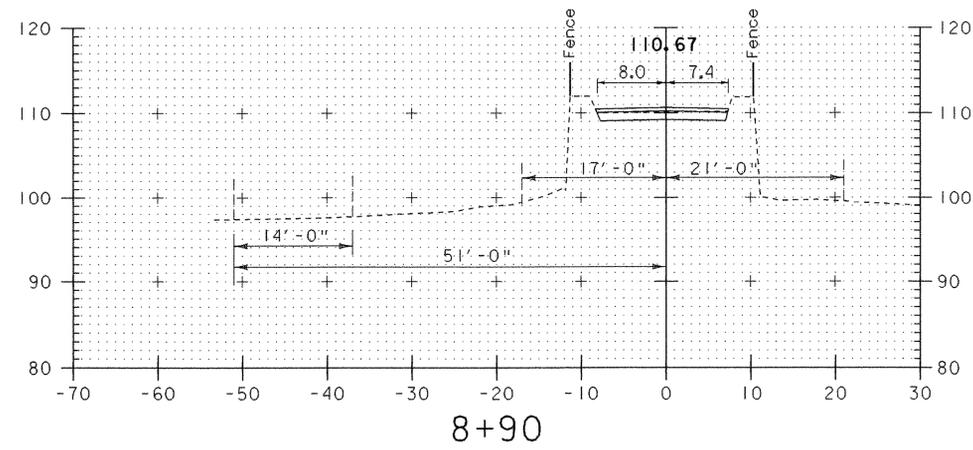
~ NOTES ~

- 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.
- 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".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- E DENOTES EPOXY COATED REINFORCING STEEL.



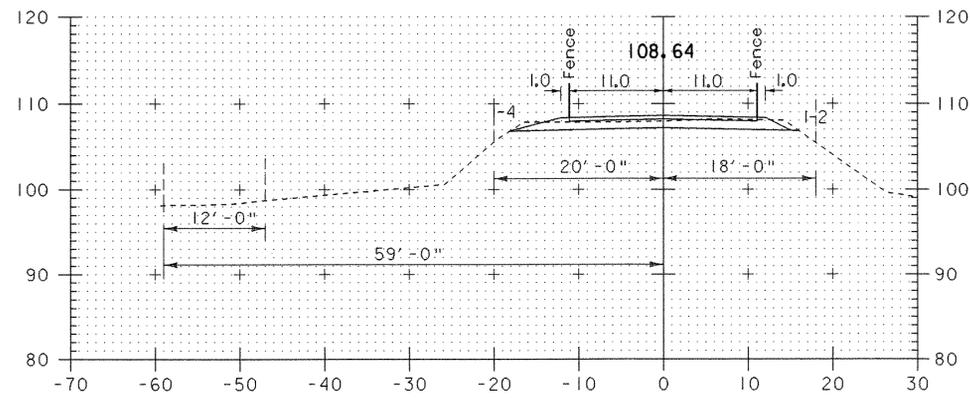
ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES ²	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	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: ef038rein.xls	PLOT DATE: 7/9/2003
PROJECT MANAGER: C. Keller	DRAWN BY: Evans-Mongeon
DESIGNED BY: Evans-Mongeon	CHECKED BY:
REINFORCING STEEL SCHEDULE SHEET #1	SHEET 69 OF 87

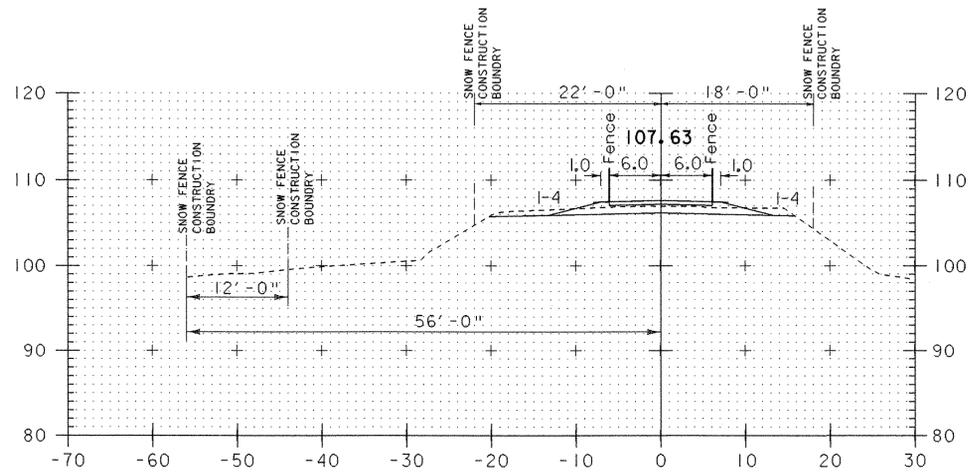


CROSS SECTIONS 8+75 - 9+20

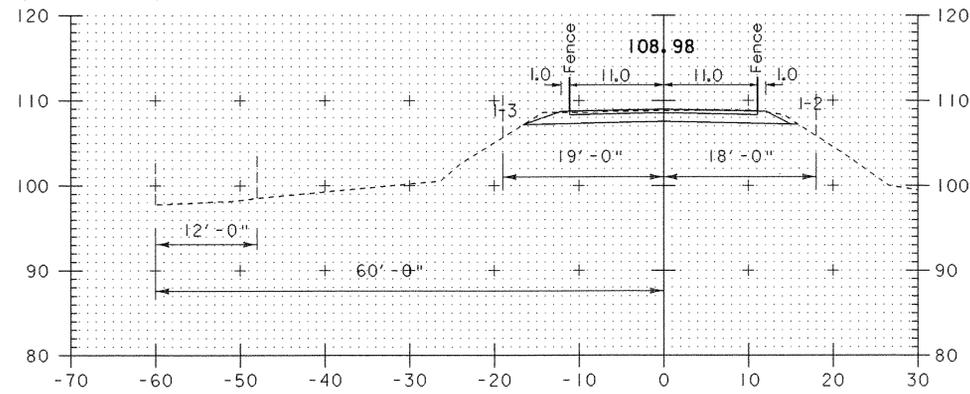
PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME:\str5\03f038\s038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs2.i	SHEET 71 OF 87



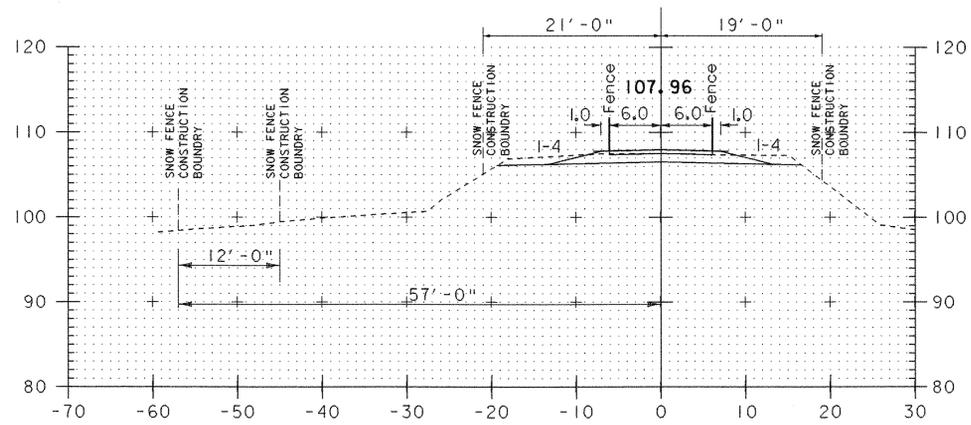
9+50 9+50
End 22' Wide Path
Begin Taper 22' to 12' wide



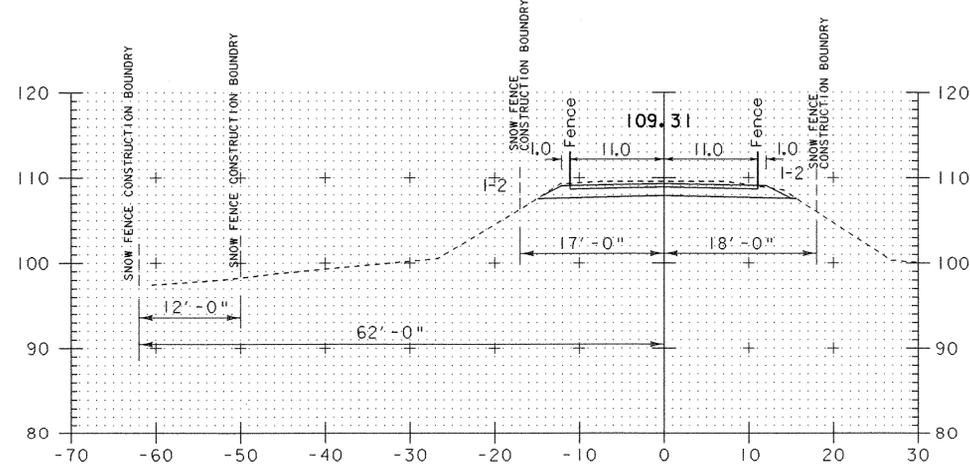
9+80



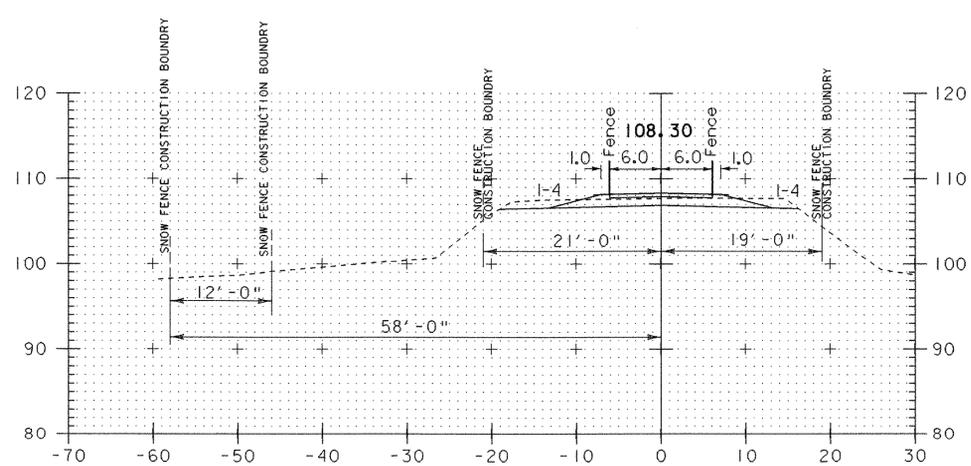
9+40



9+70



9+30

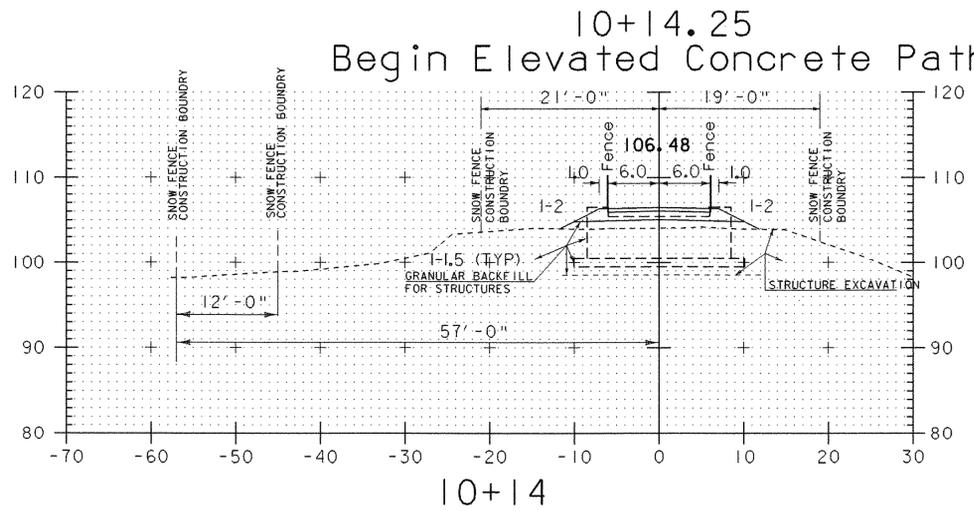
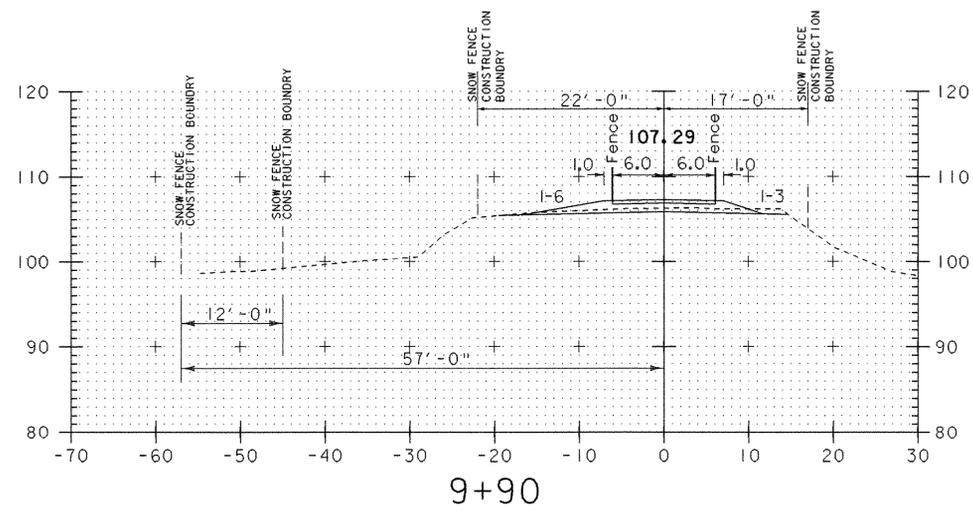
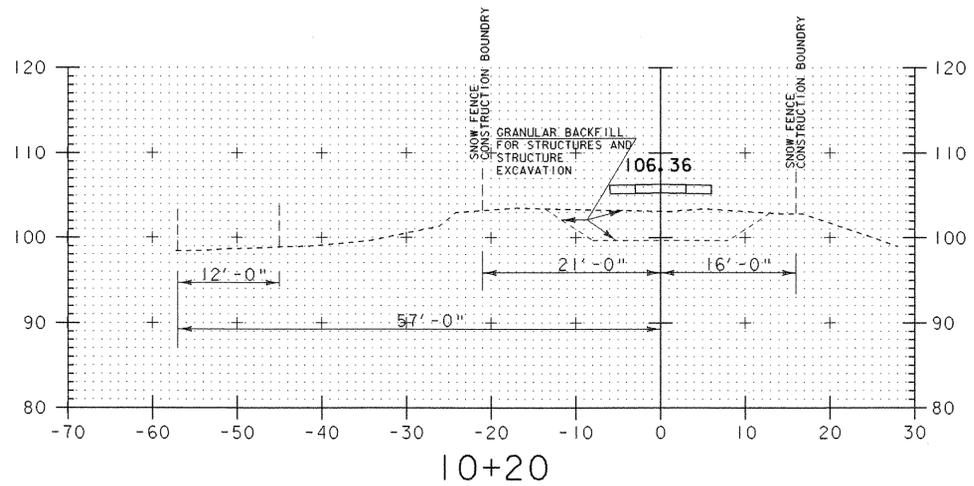
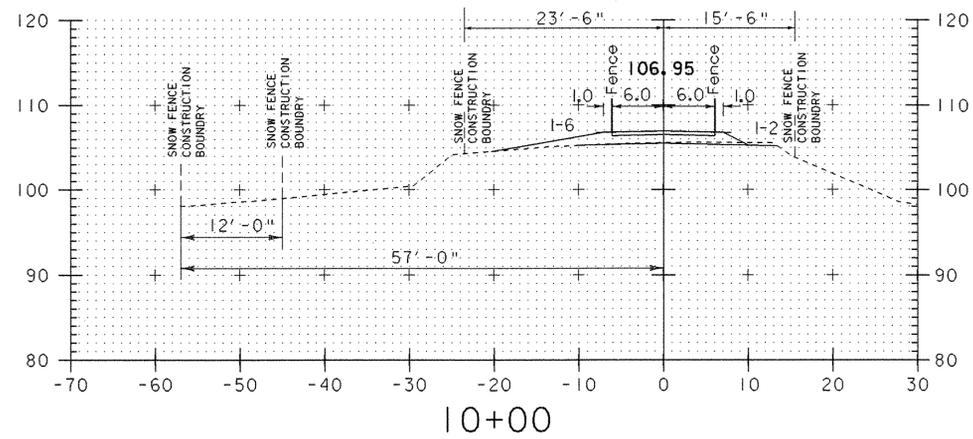
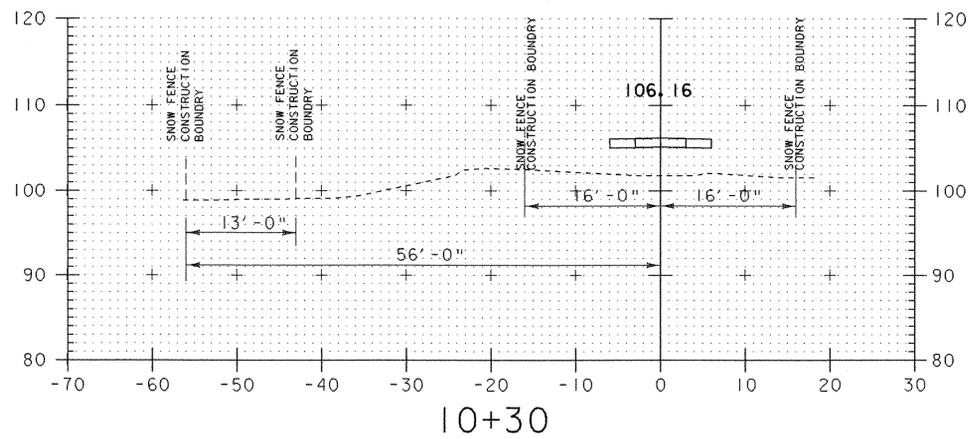
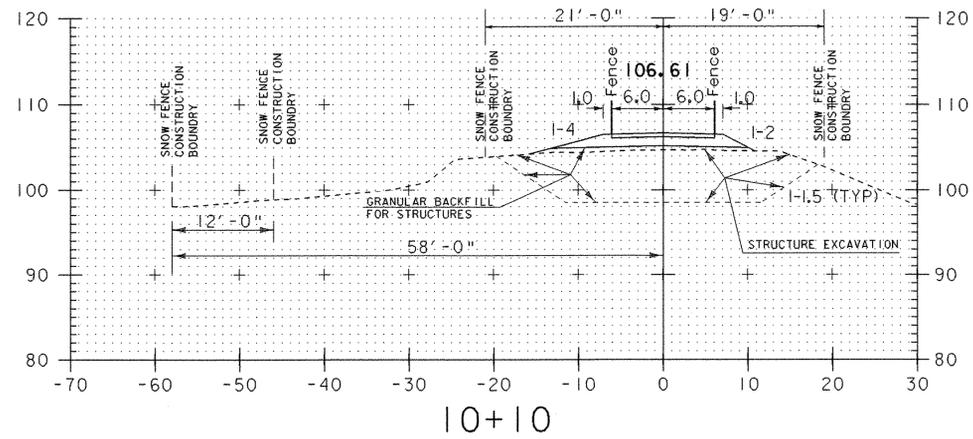


9+60 9+60
End Width Taper
Resume 12' Wide Path

CROSS SECTIONS 9+30 - 9+80

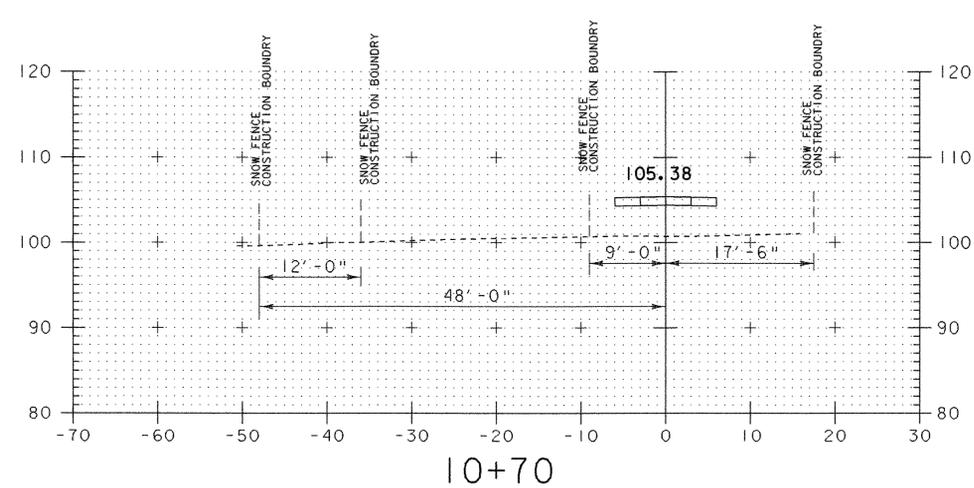
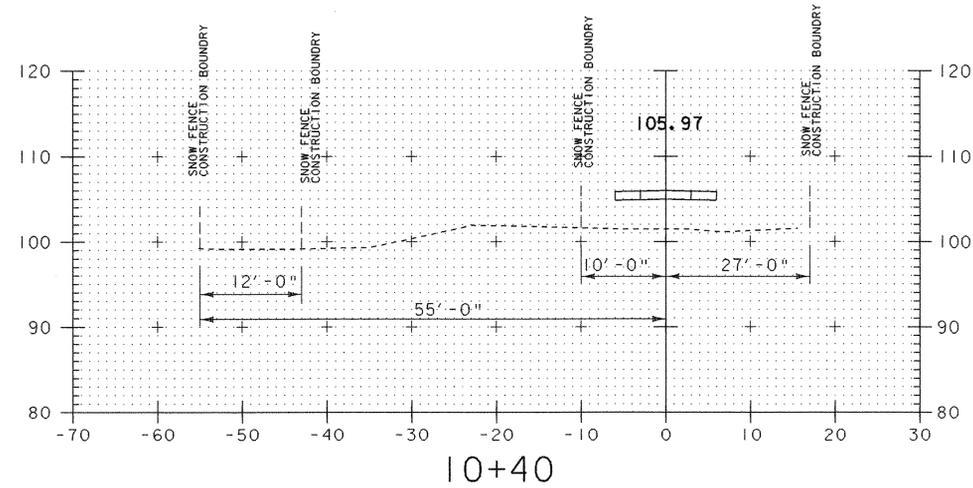
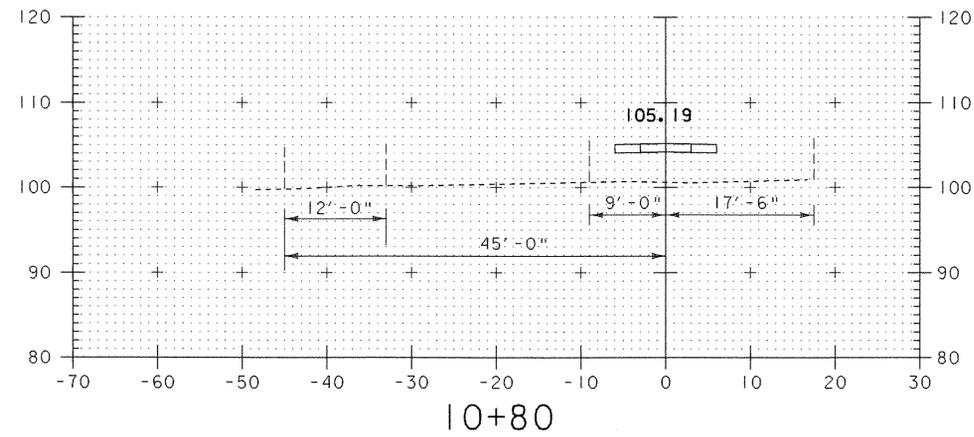
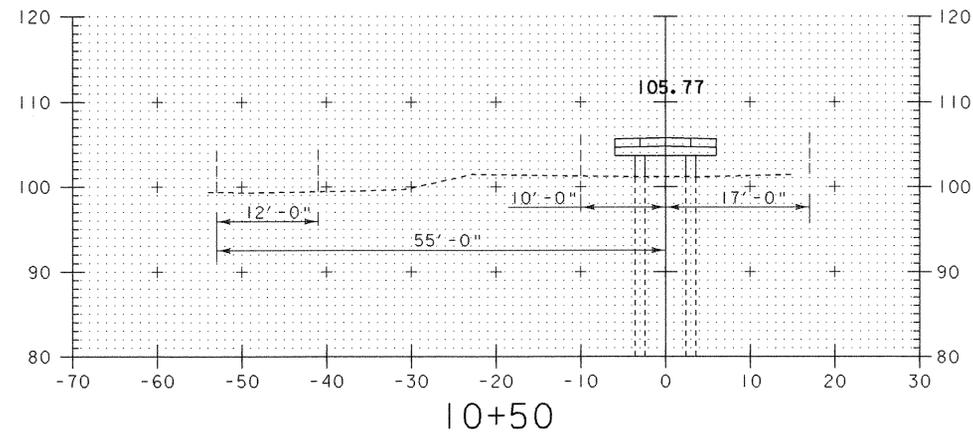
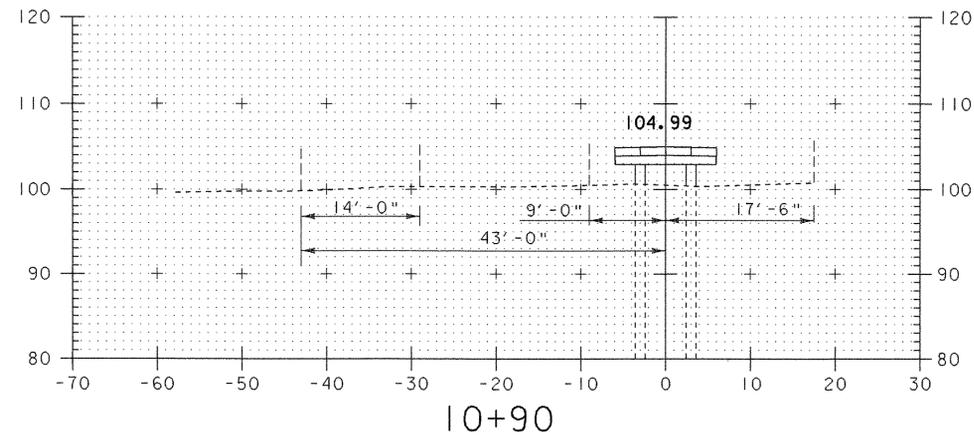
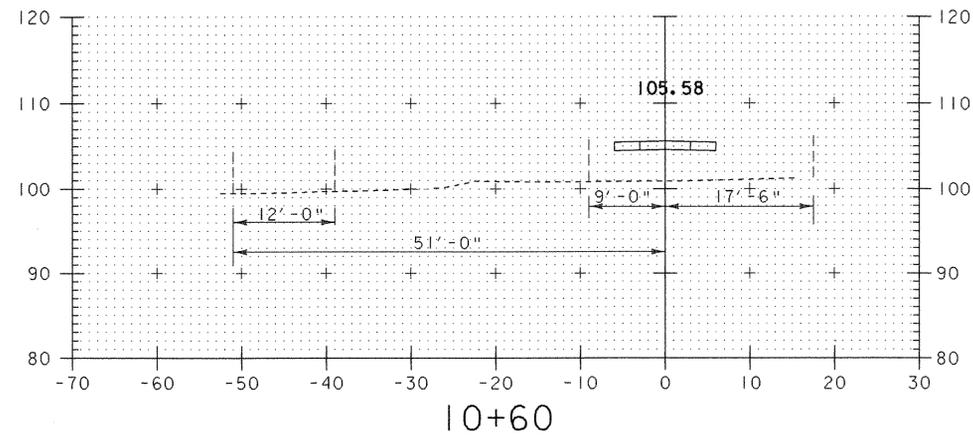
PROJECT NAME: Colchester
PROJECT NUMBER: STP Bike(48)

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:
sf038xs3.I SHEET 72 OF 87



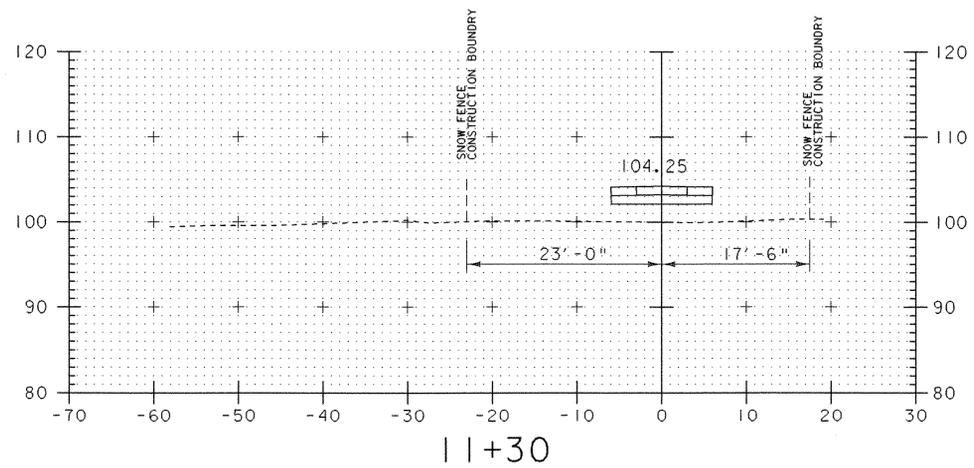
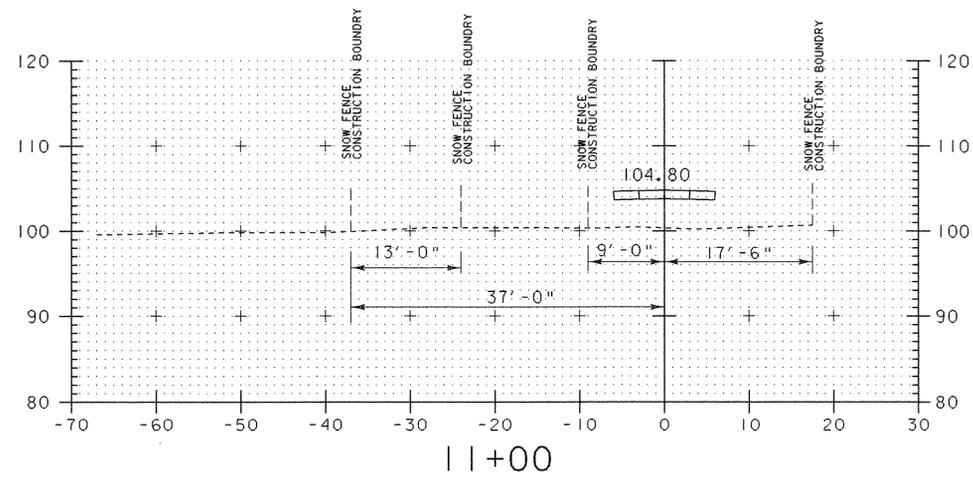
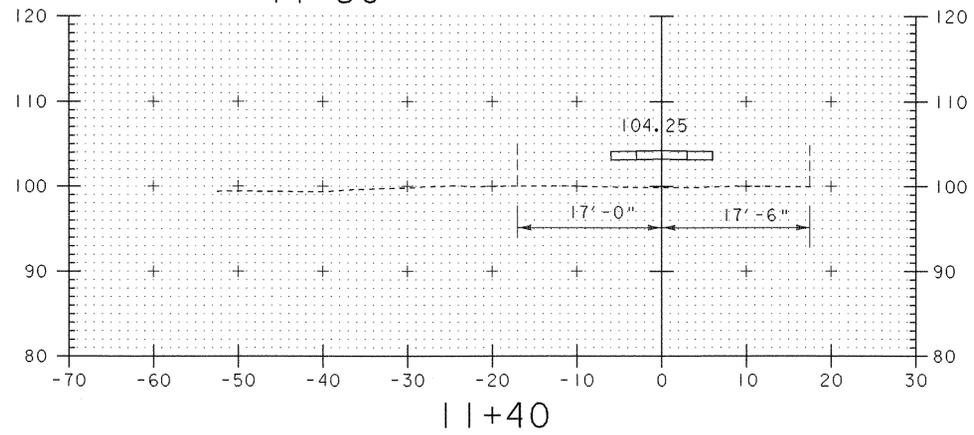
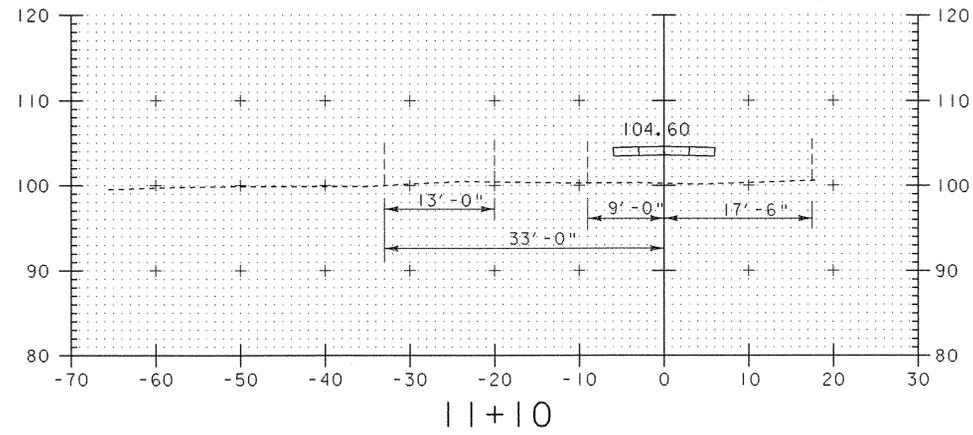
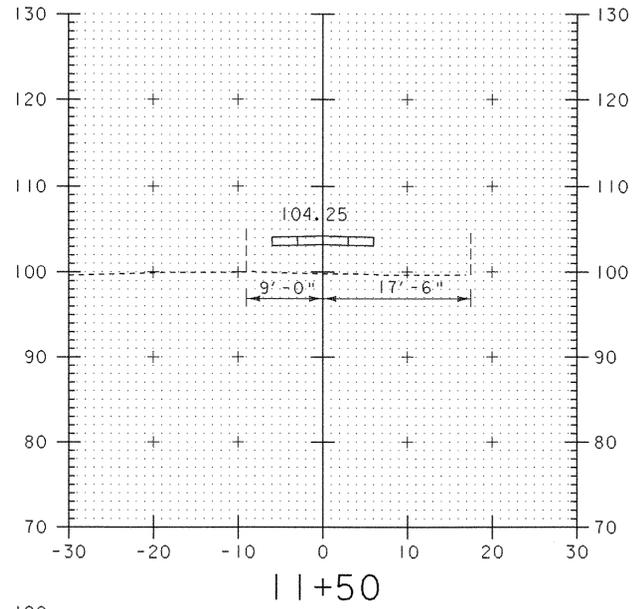
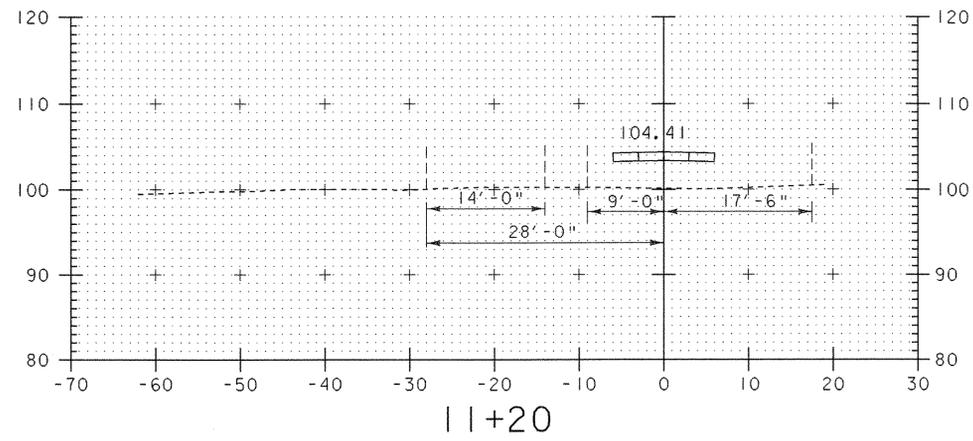
CROSS SECTIONS 9+90 - 10+30

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:
sf038xs4.i	SHEET 73 OF 87



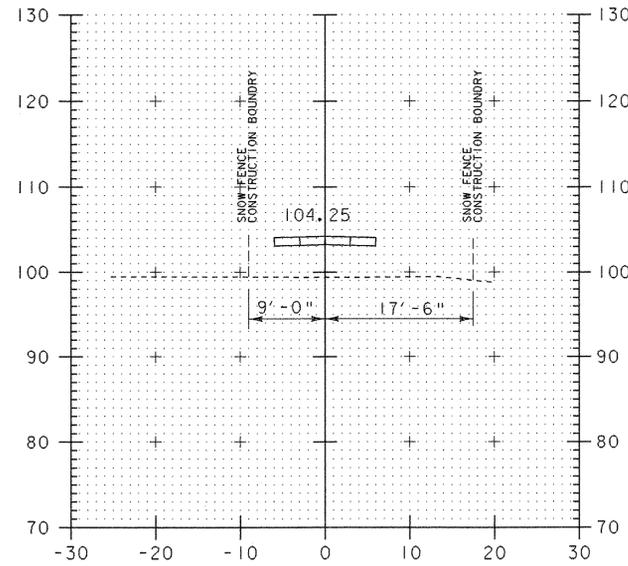
CROSS SECTIONS 10+40 - 10+90

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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:
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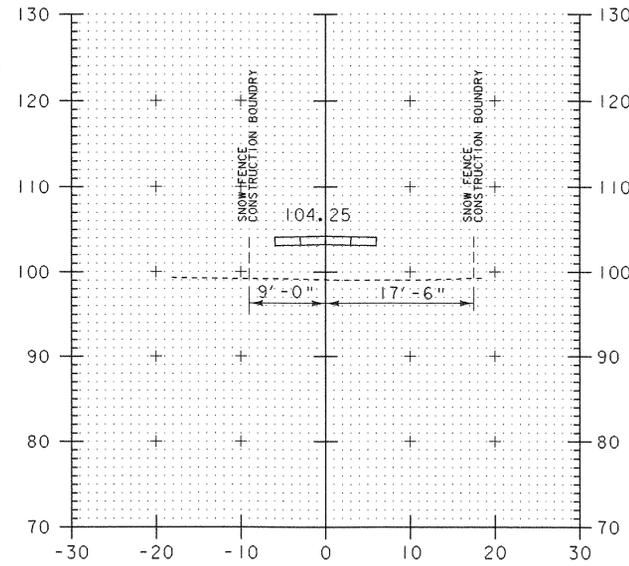


CROSS SECTIONS 11+00 - 11+50

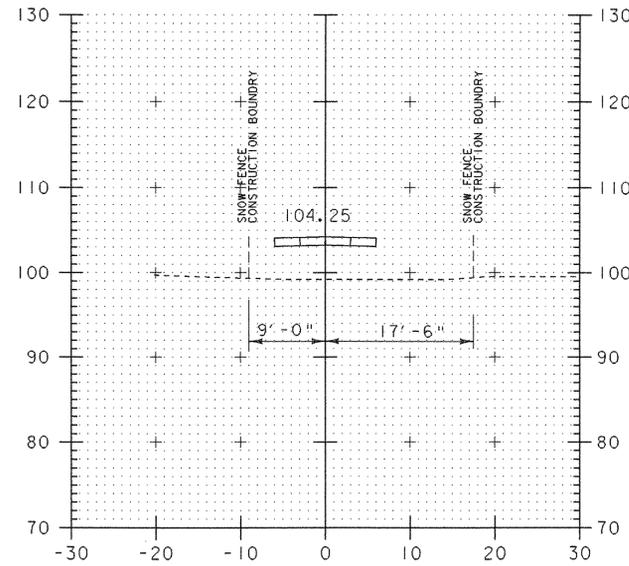
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PROJECT NUMBER:	STP Bike(48)
FILE NAME:\str5\03f038\s038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
s038xs6.i	SHEET 75 OF 87



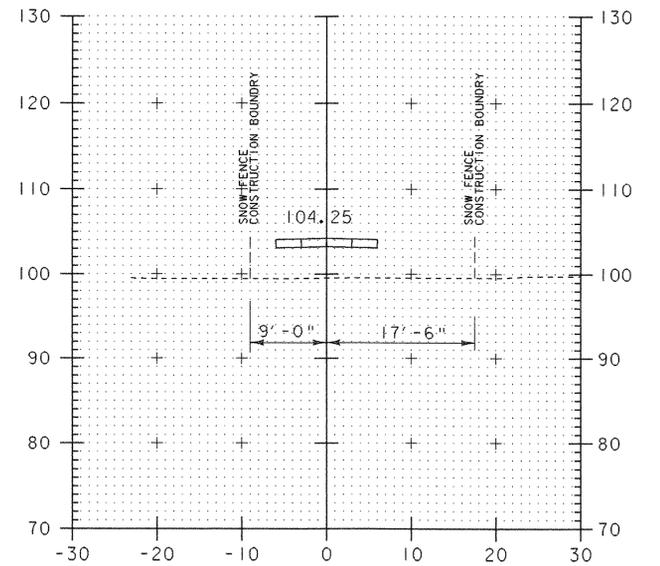
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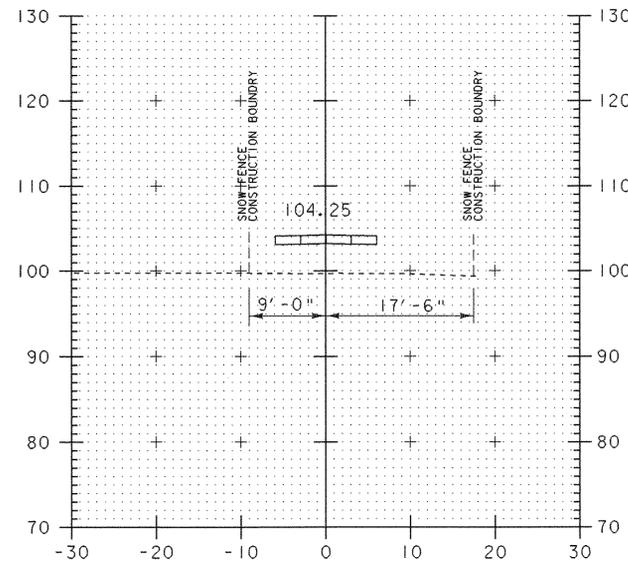
12+50



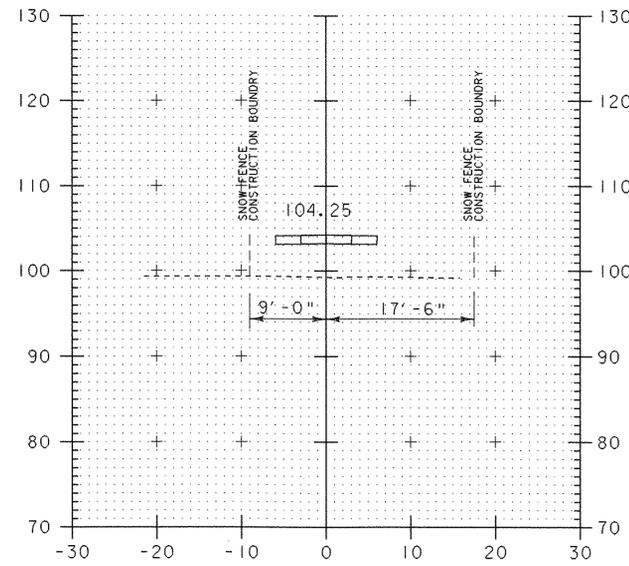
13+00



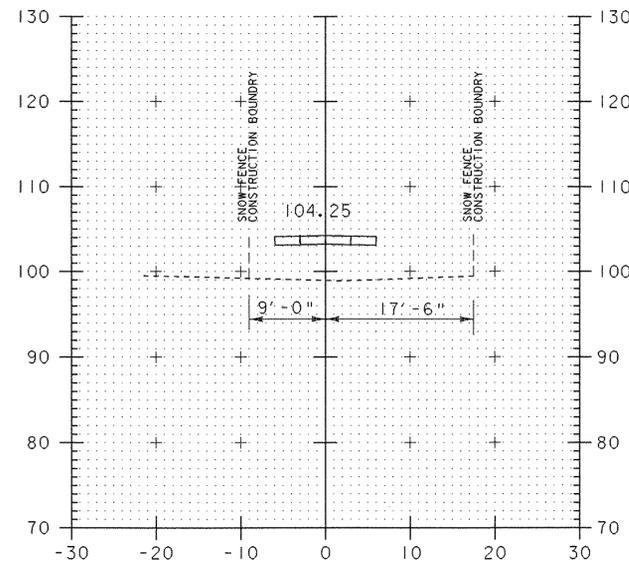
13+50



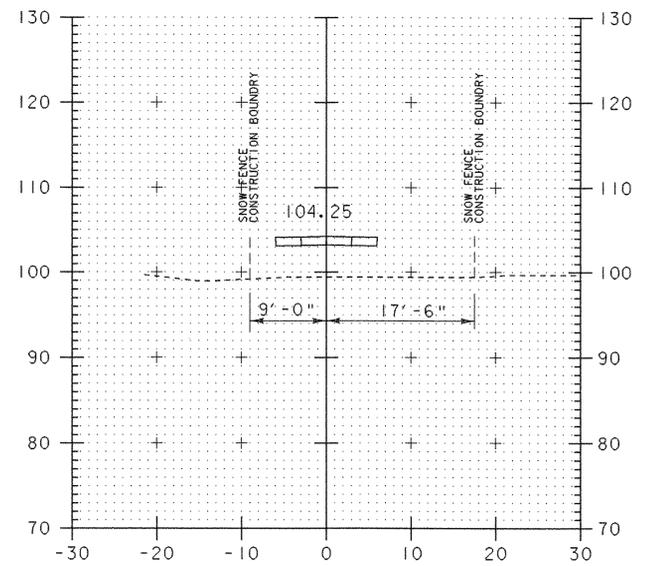
11+75



12+25



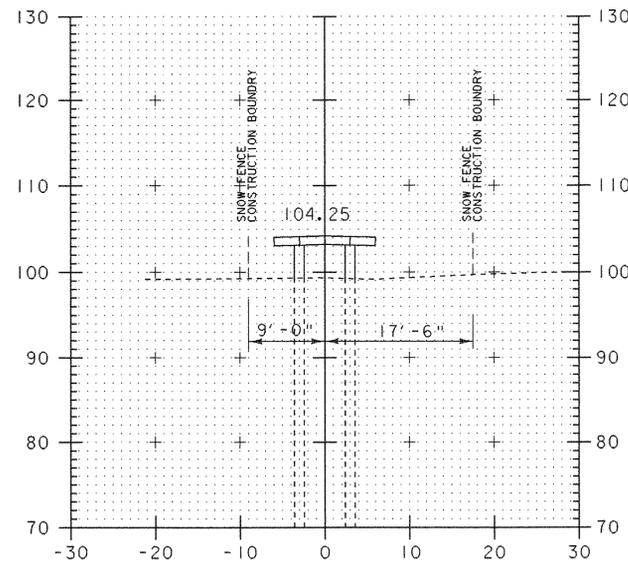
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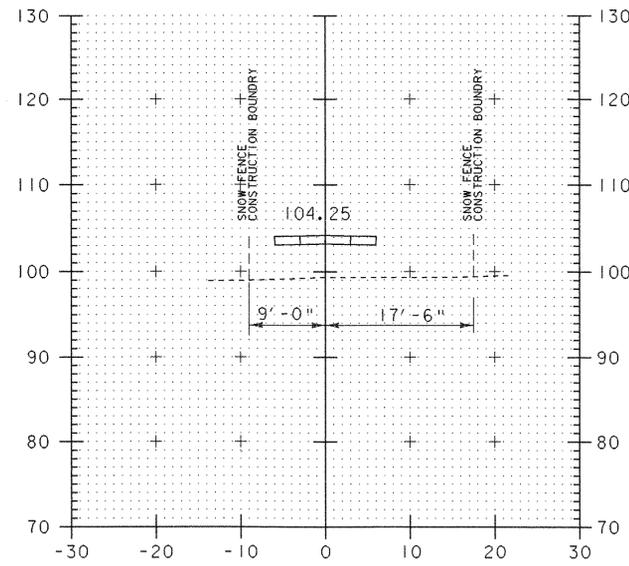
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CROSS SECTIONS 11+75 - 13+50

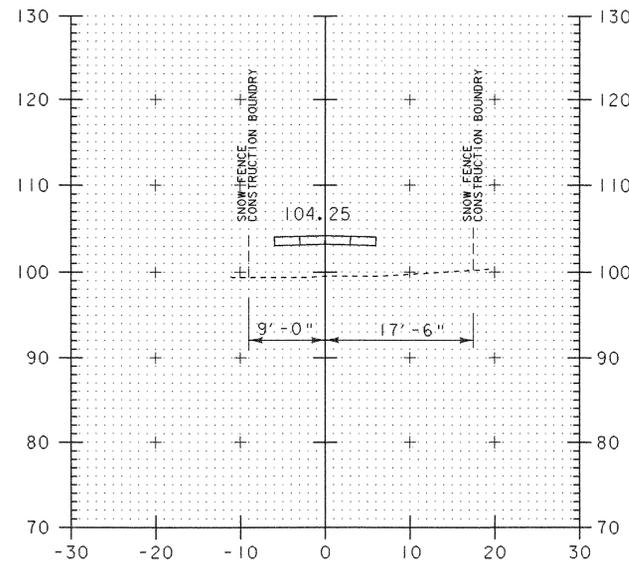
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PROJECT NUMBER:	STP Bike(48)
FILE NAME:\str5\03f038\s038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs7.i	SHEET 76 OF 87



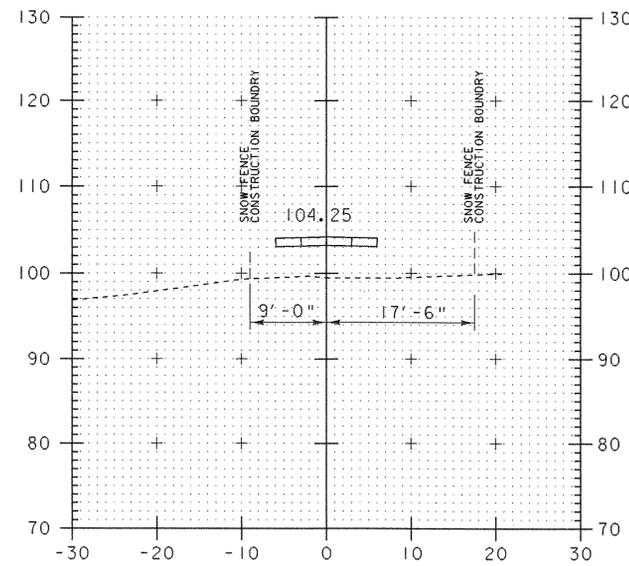
14+00



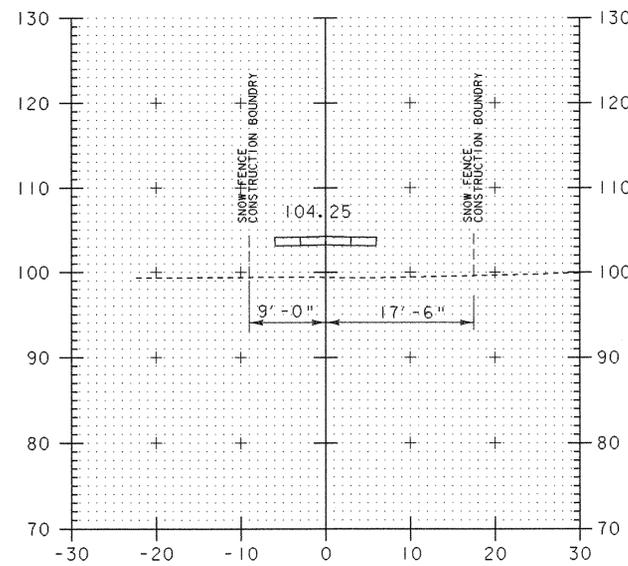
14+50



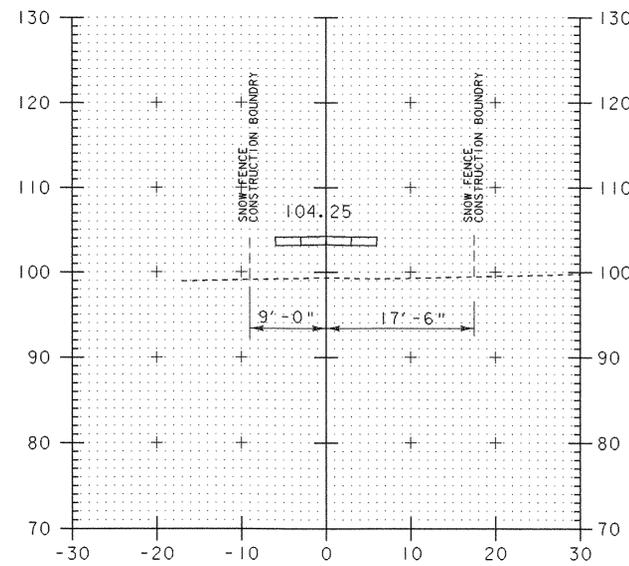
15+00



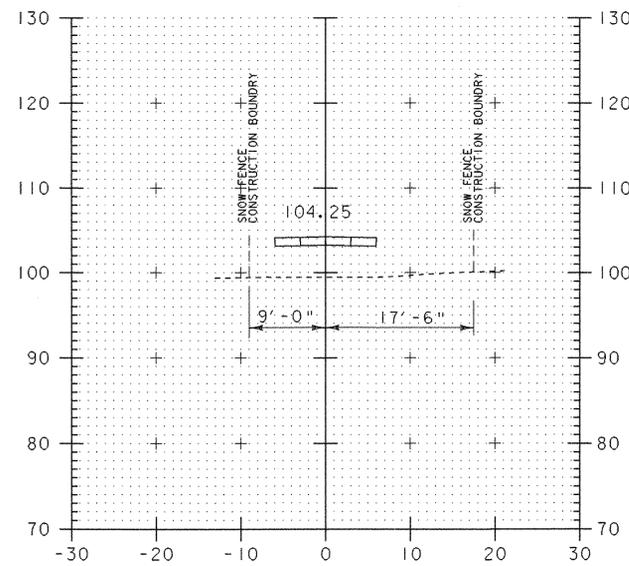
15+50



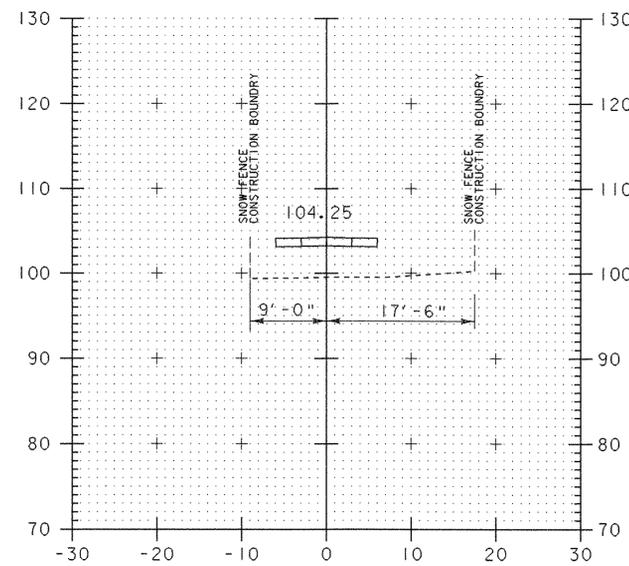
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14+25



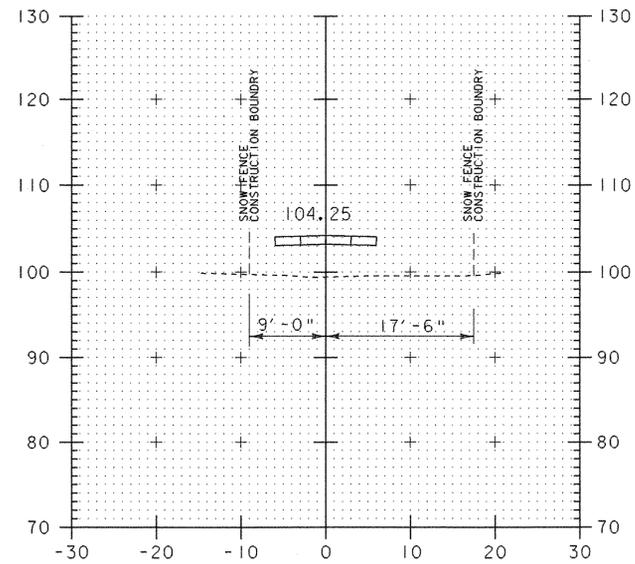
14+75



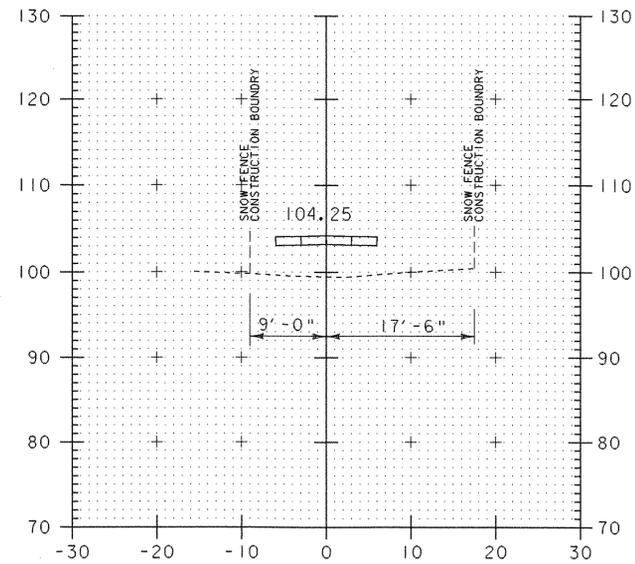
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CROSS SECTIONS 13+75 - 15+50

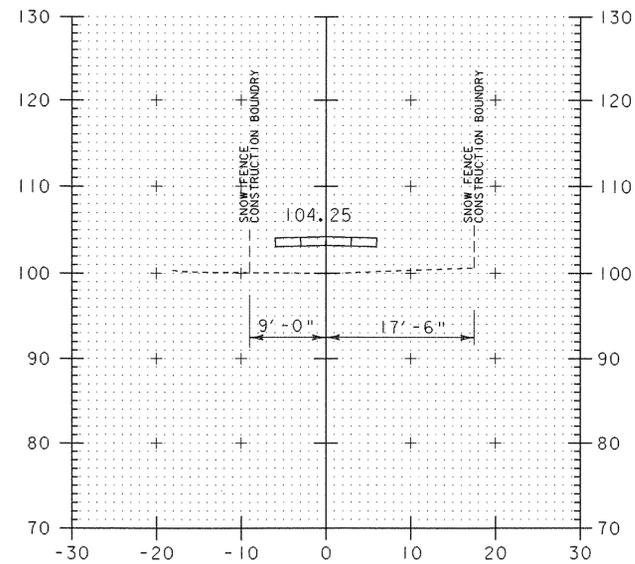
PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME: str5/03f038/sf038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xs8.i	SHEET 77 OF 87



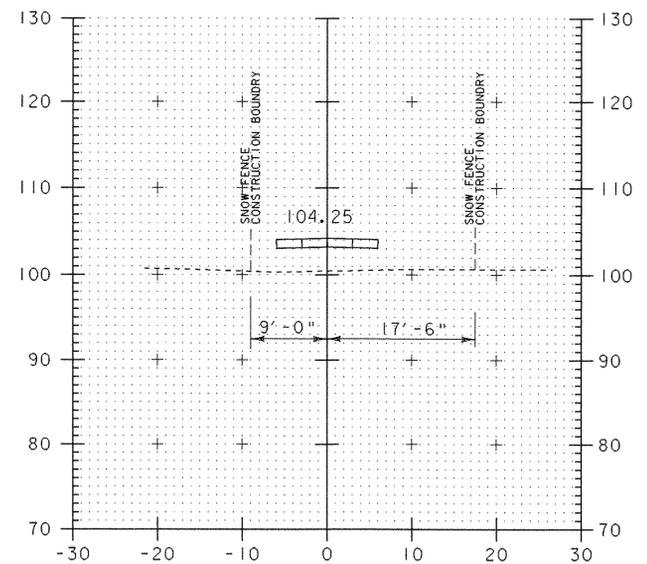
18+00



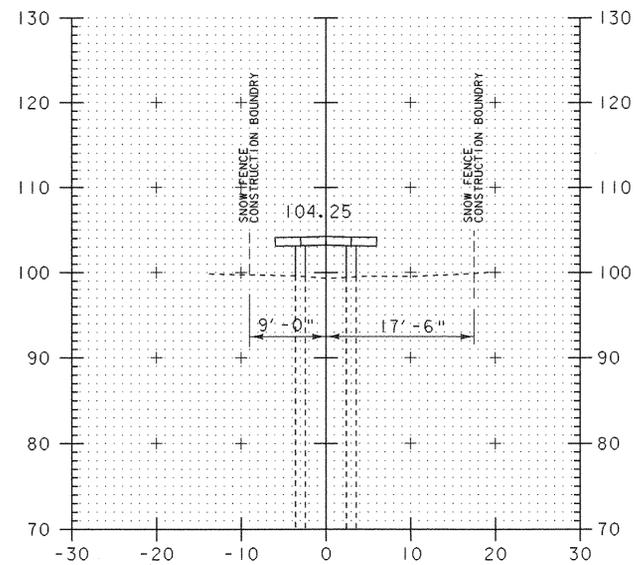
18+50



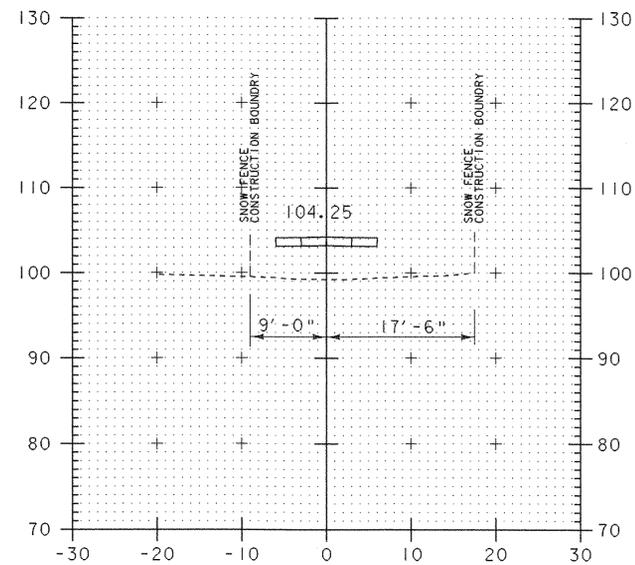
19+00



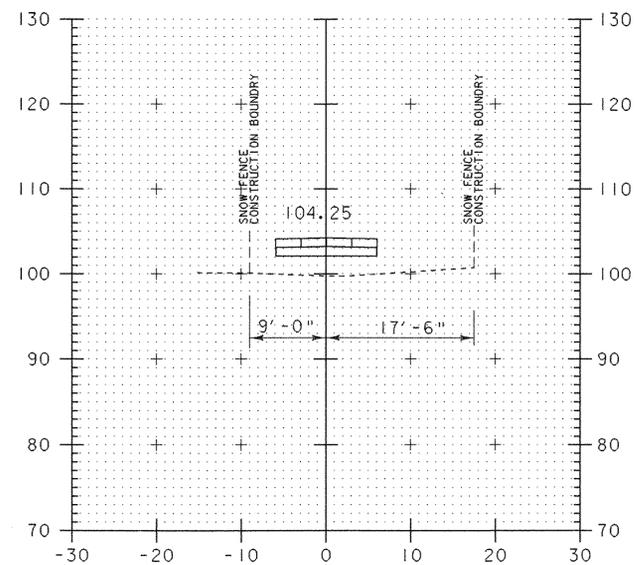
19+50



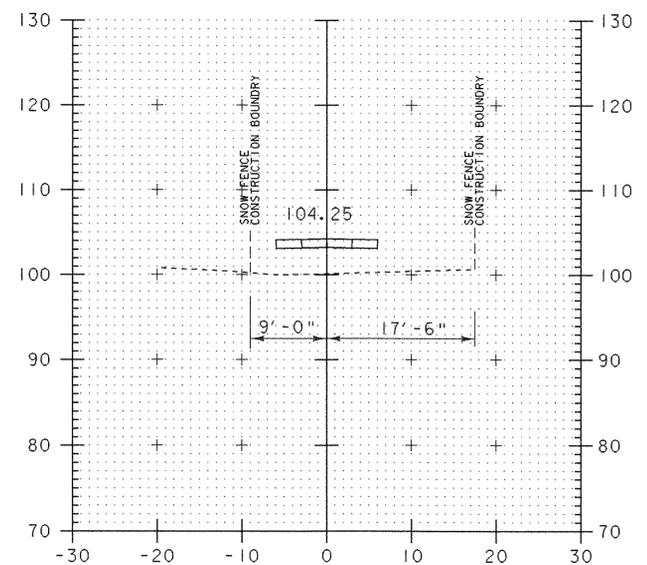
17+75



18+25



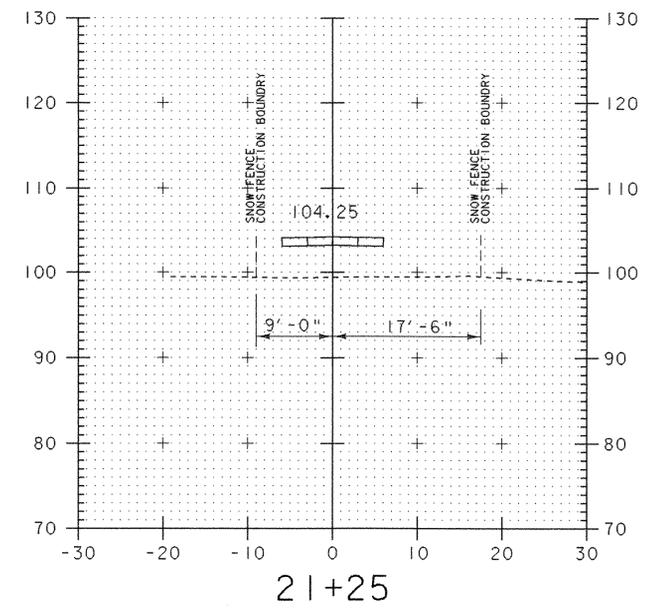
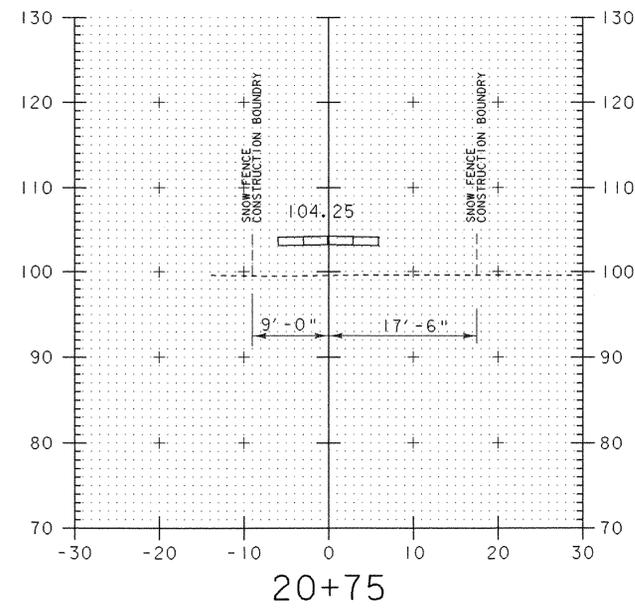
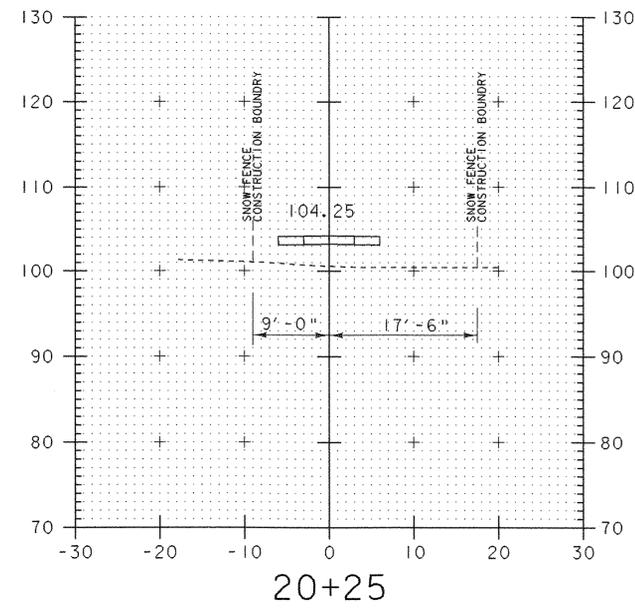
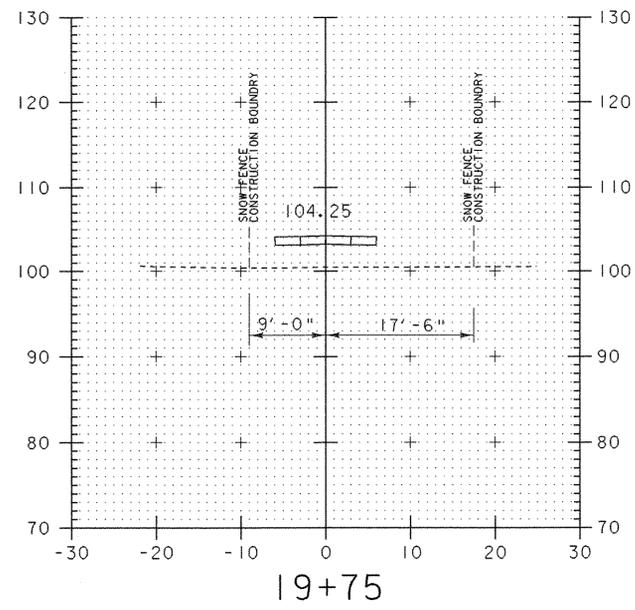
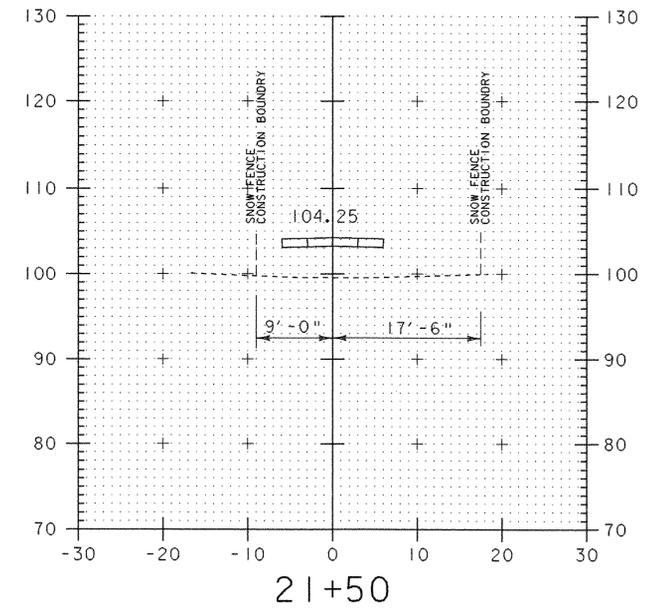
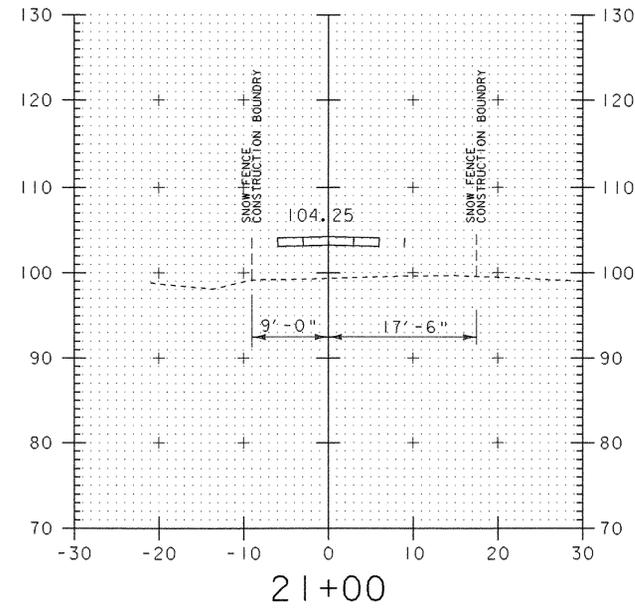
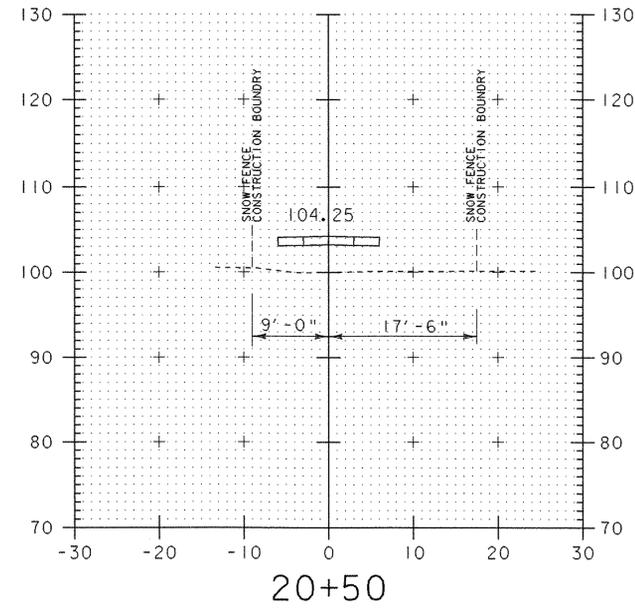
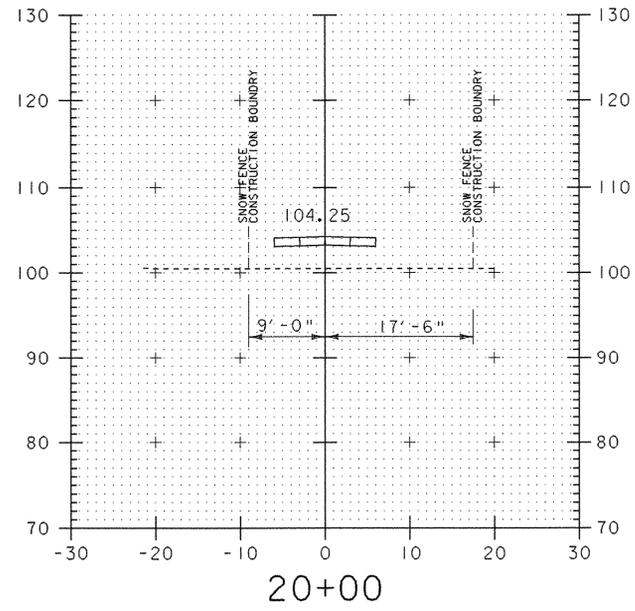
18+75



19+25

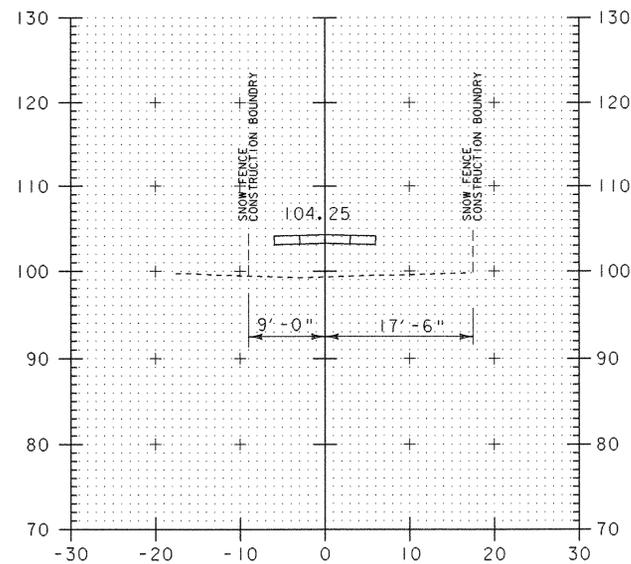
CROSS SECTIONS 17+75 - 19+50

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP Bike(48)
FILE NAME: str5\03f038\s038xsl.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

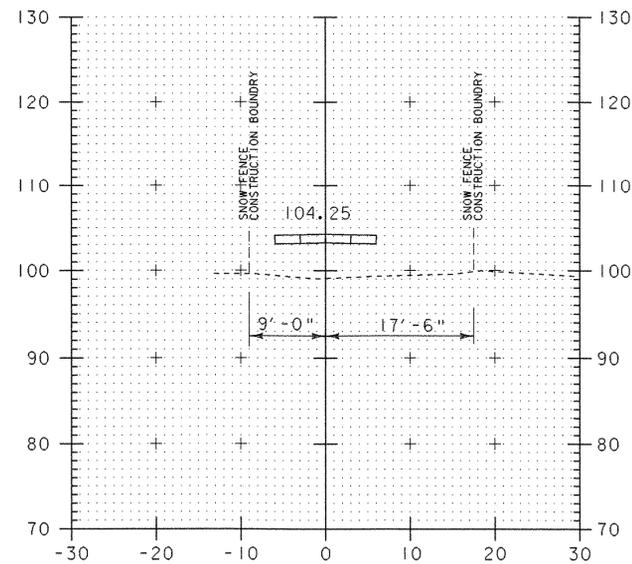


CROSS SECTIONS 19+75 - 21+50

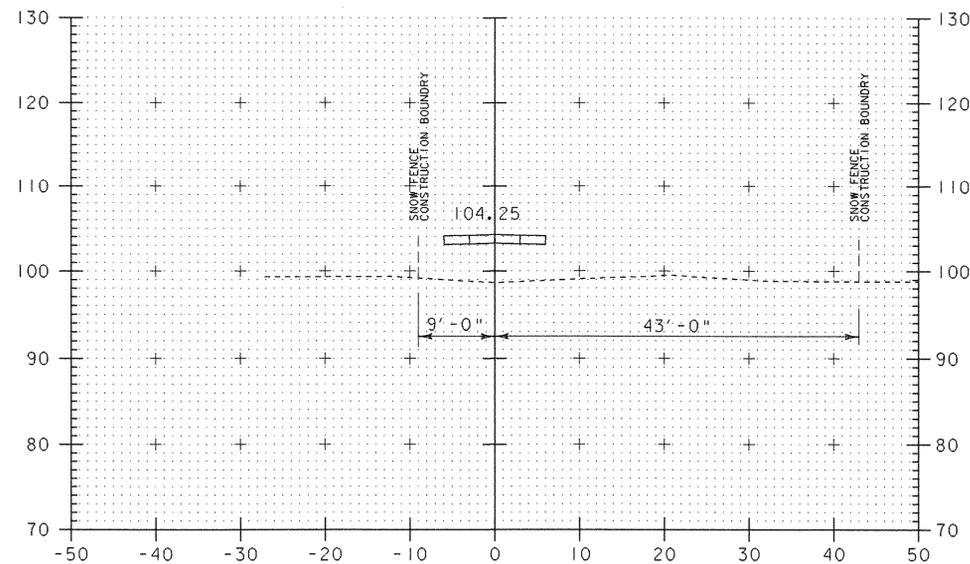
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PROJECT NUMBER:	STP Bike(48)	PROJECT LEADER:	C. Keller	DRAWN BY:	G. Shangraw
		DESIGNED BY:	G. Shangraw	CHECKED BY:	
			sf038xsl.l	SHEET	80 OF 87



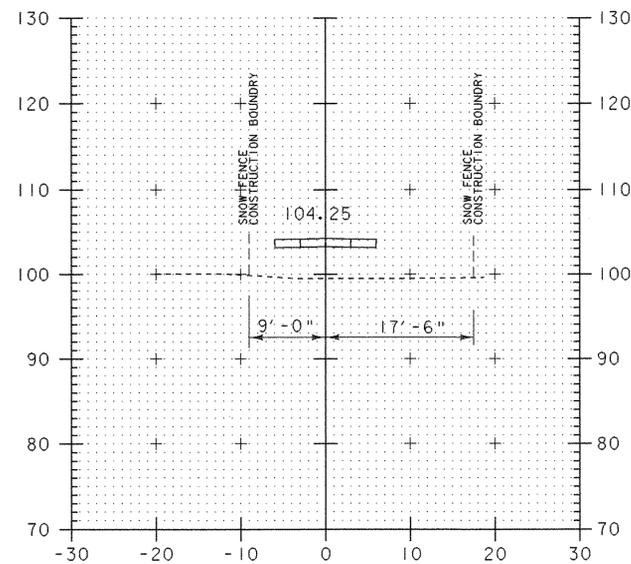
22+00



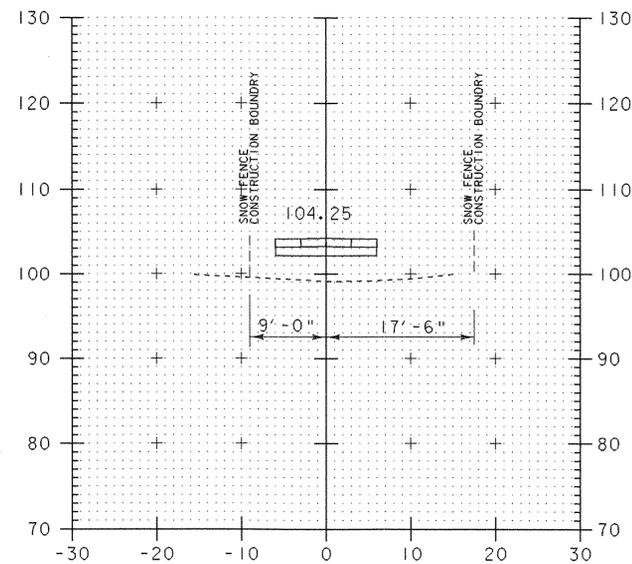
22+50



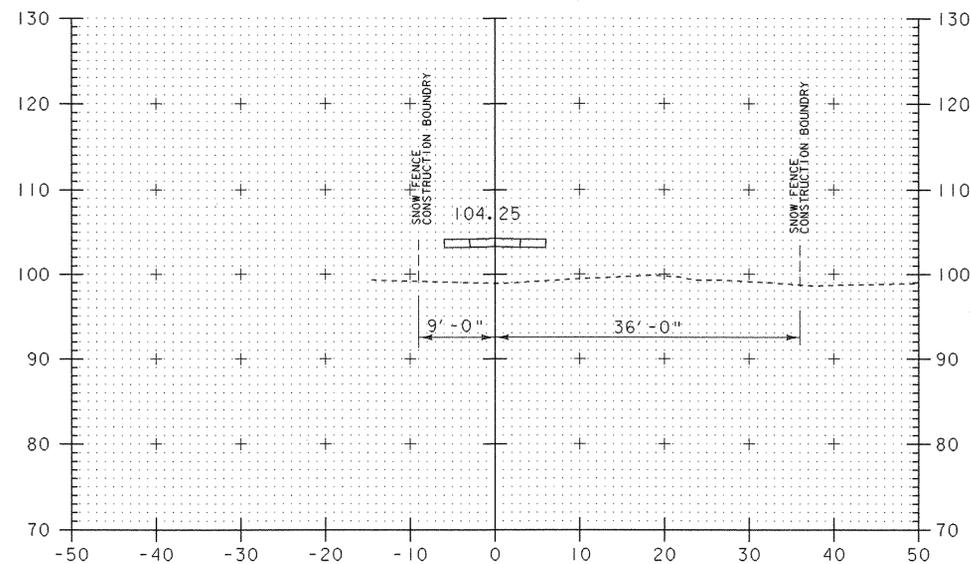
23+00



21+75



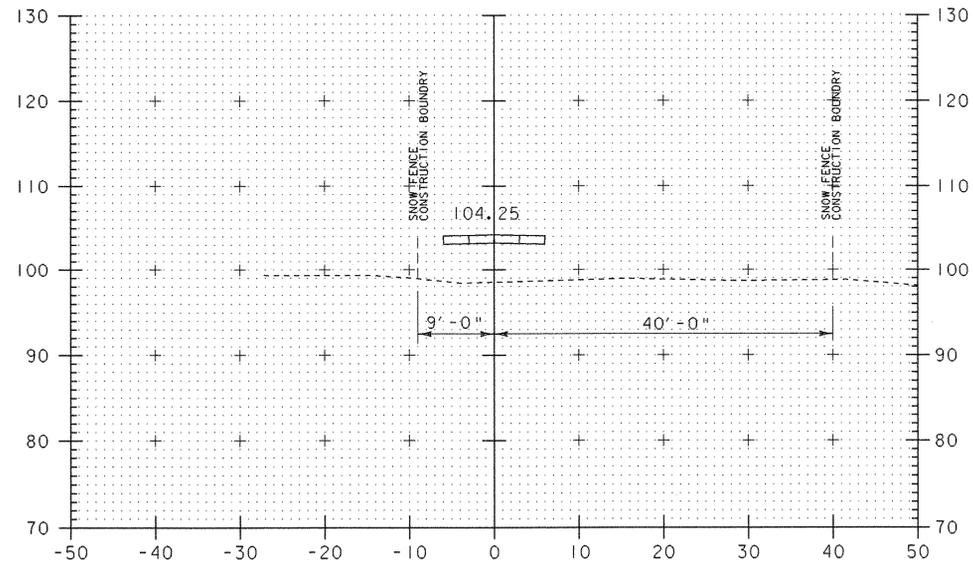
22+25



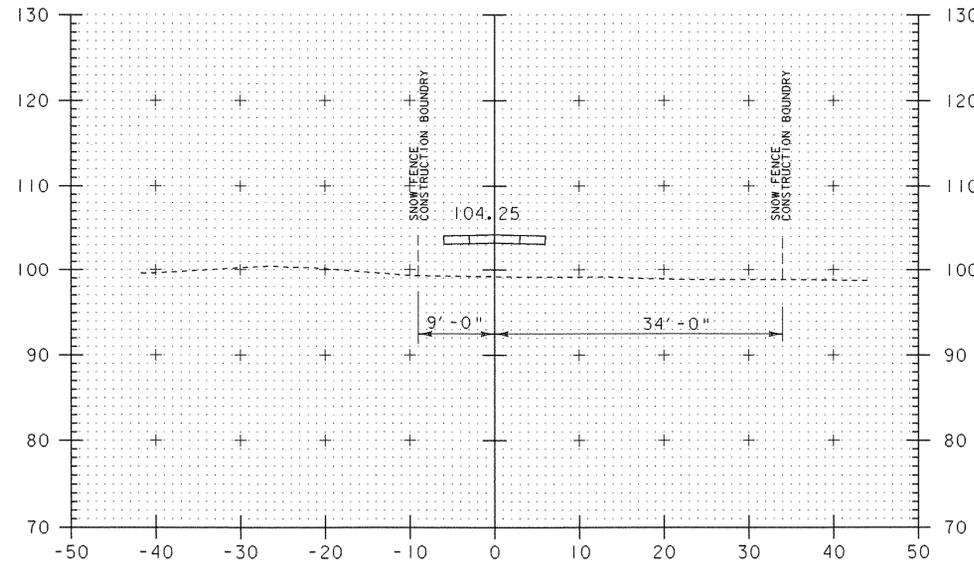
22+75

CROSS SECTIONS 21+75 - 23+00

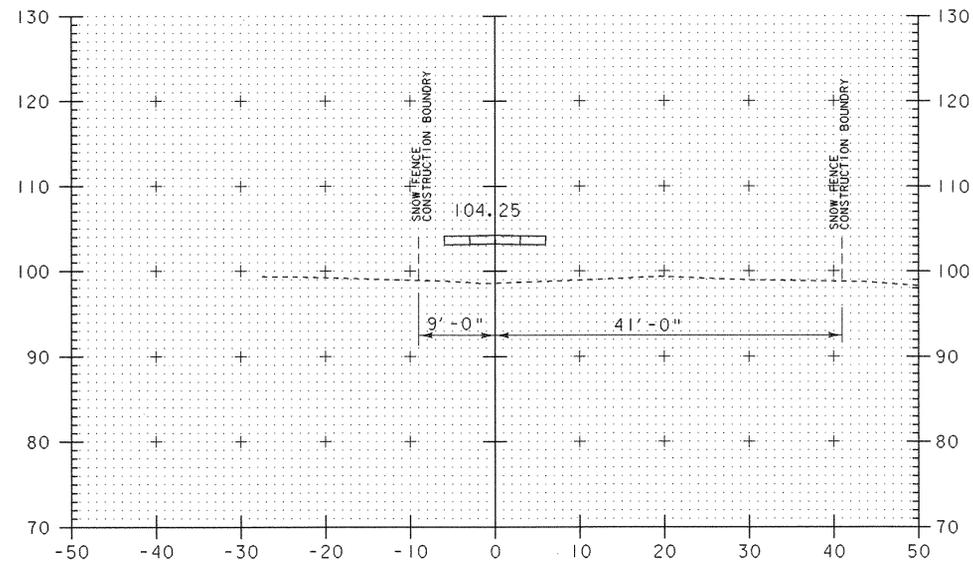
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PROJECT NUMBER:	STP Bike(48)
FILE NAME:\str5\03f038\s038xsl.dgn	PLOT DATE: 03-SEP-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl2.i	SHEET 81 OF 87



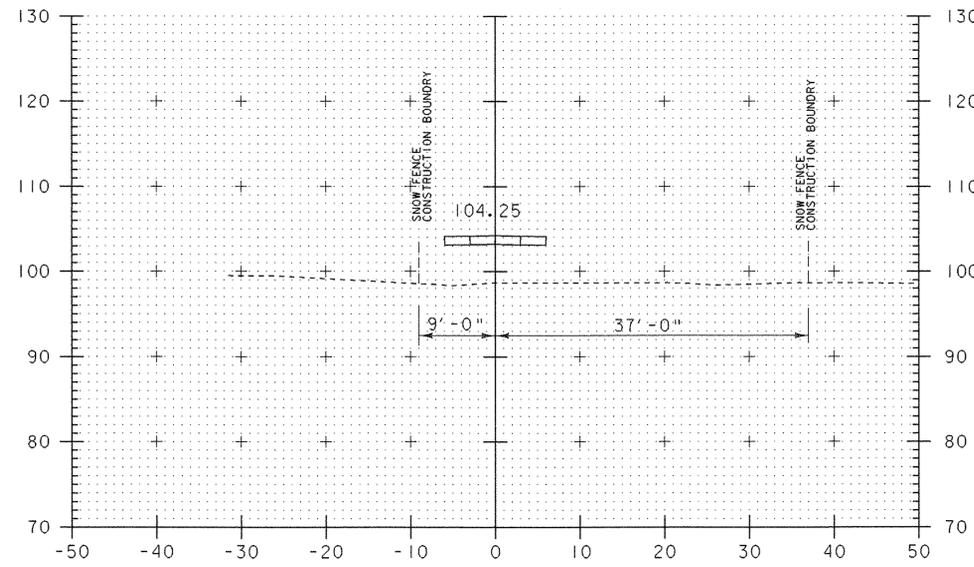
23+50



24+00



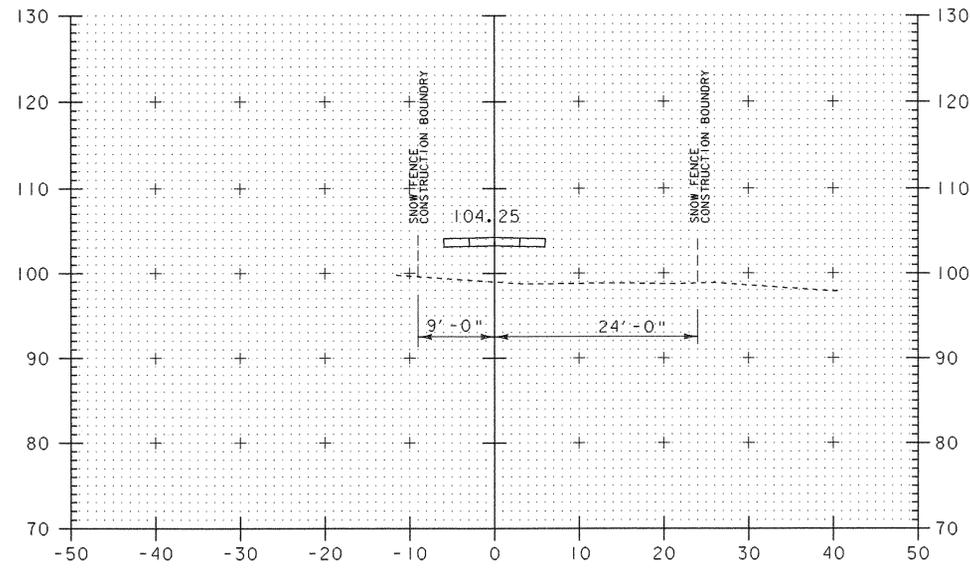
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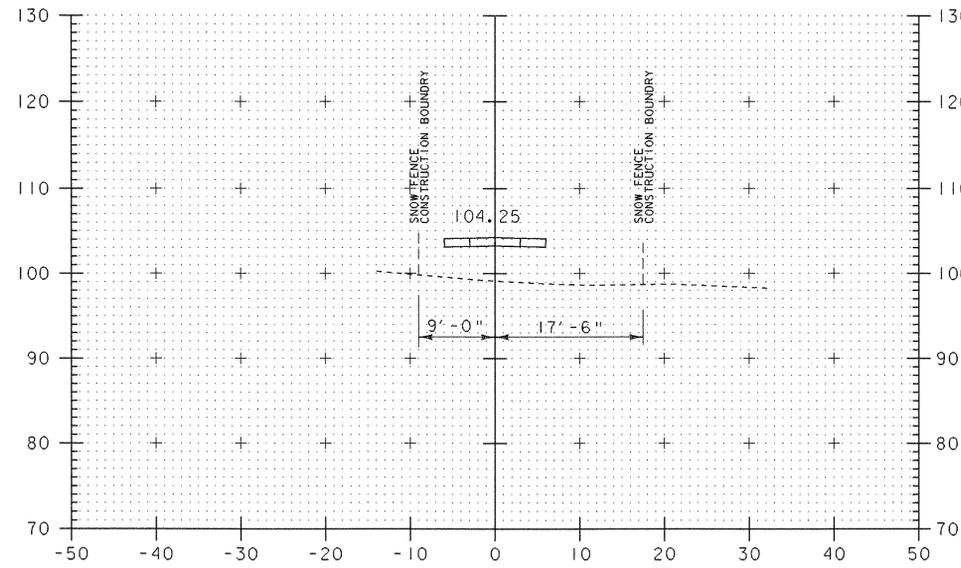
23+75

CROSS SECTIONS 23+25 - 24+00

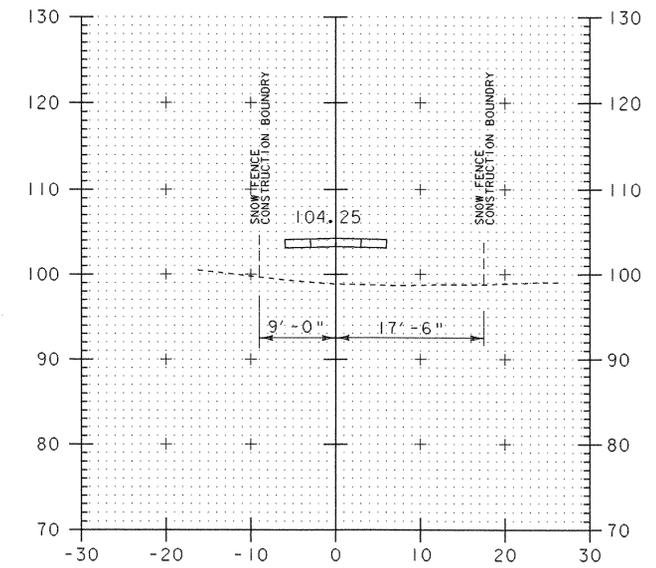
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PROJECT NUMBER:	STP Bike(48)
FILE NAME:\str5\03f038\s038xsl.dgn	PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller	DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw	CHECKED BY:
sf038xsl3.1	SHEET 82 OF 87



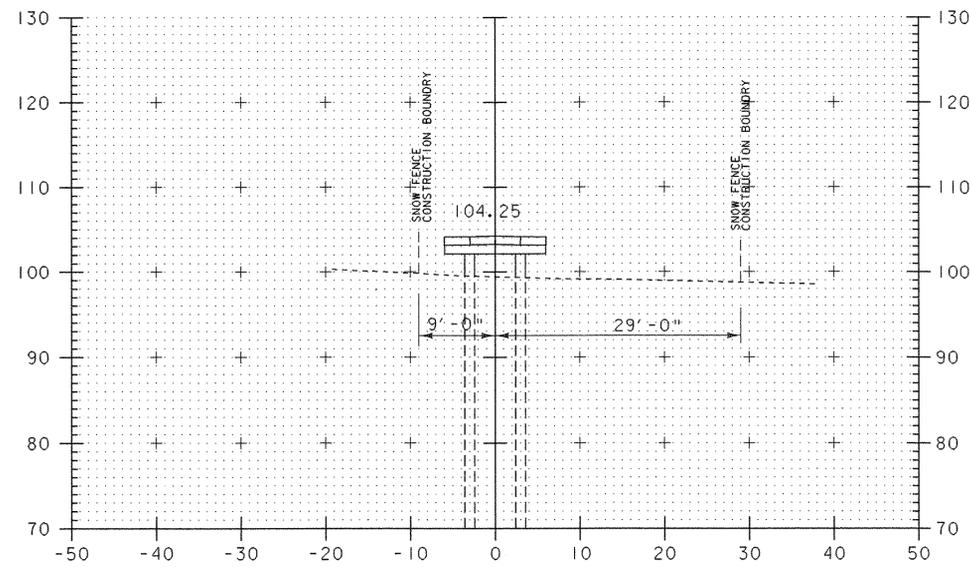
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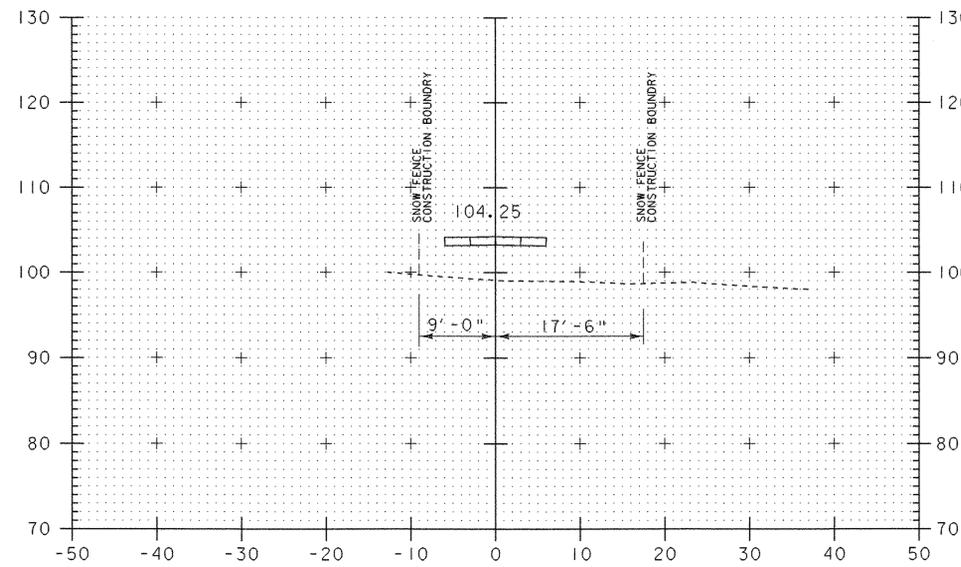
25+00



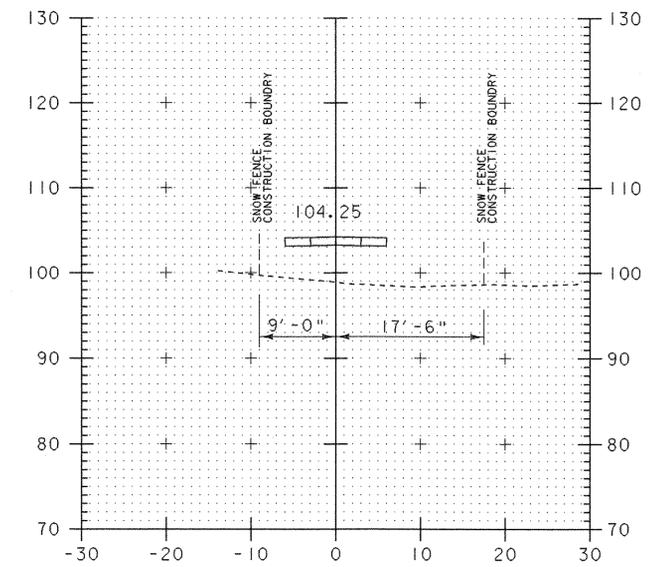
25+50



24+25



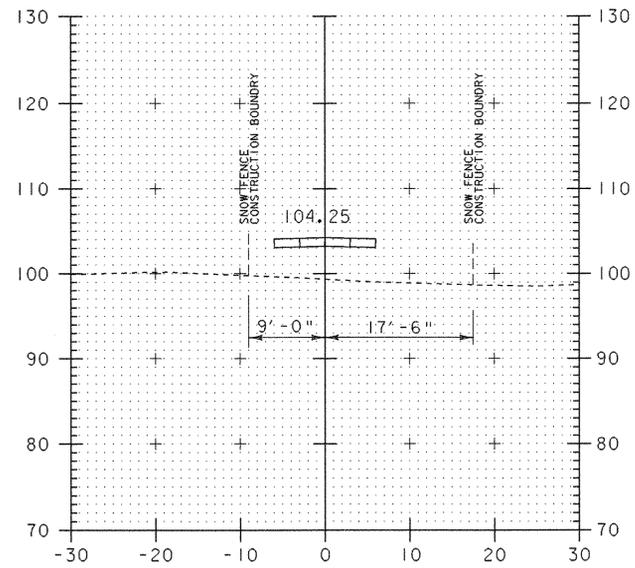
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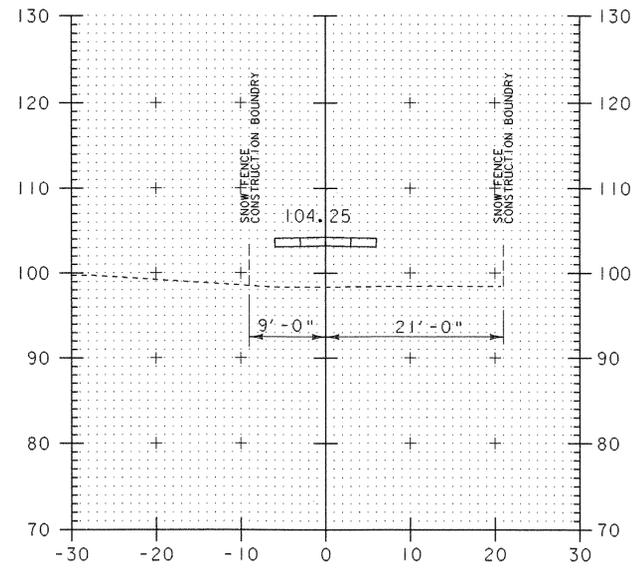
25+25

CROSS SECTIONS 24+25 - 25+50

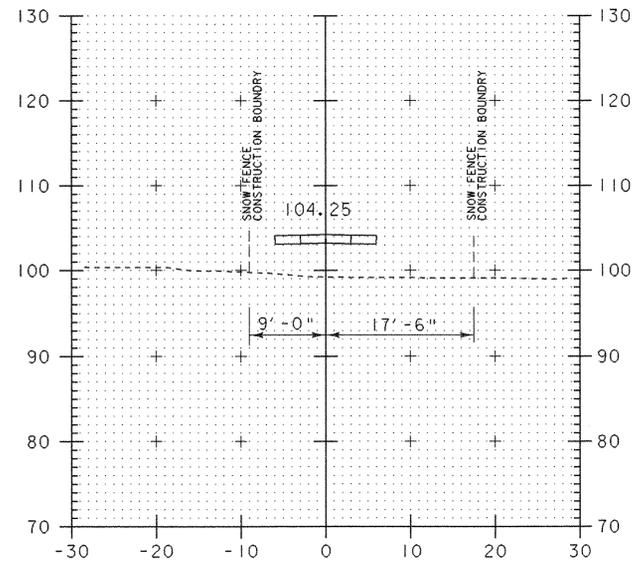
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PROJECT NUMBER:	STP Bike(48)	PROJECT LEADER:	C. Keller	DRAWN BY:	G. Shangraw
		DESIGNED BY:	G. Shangraw	CHECKED BY:	
				SHEET	83 OF 87



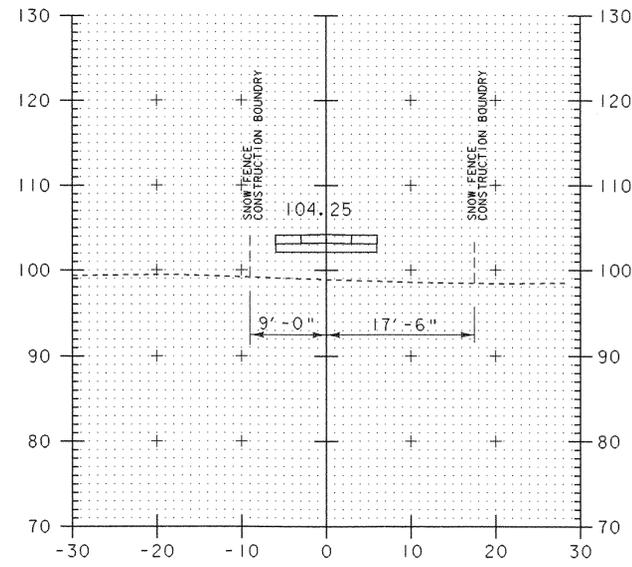
26+00



26+50



25+75

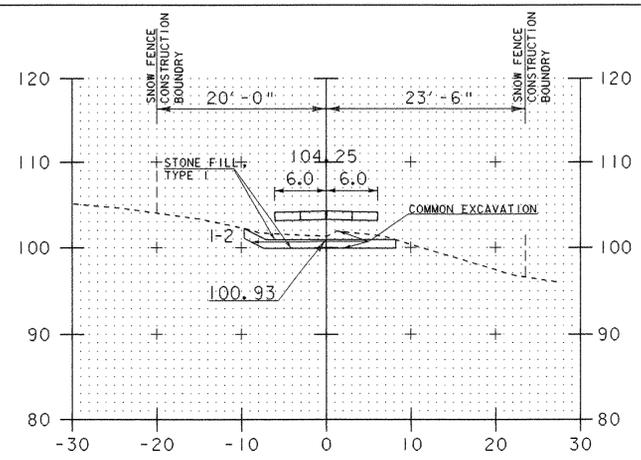


26+25

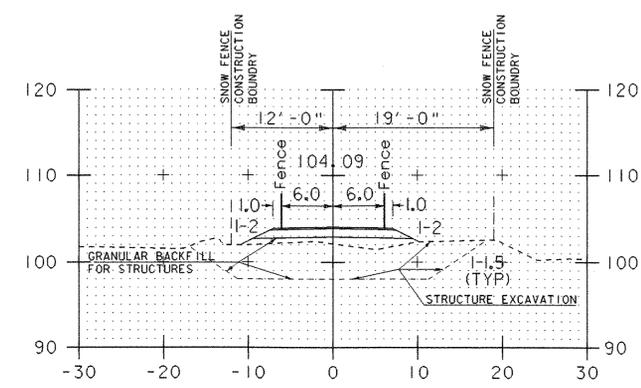
CROSS SECTIONS 25+75 - 26+50

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

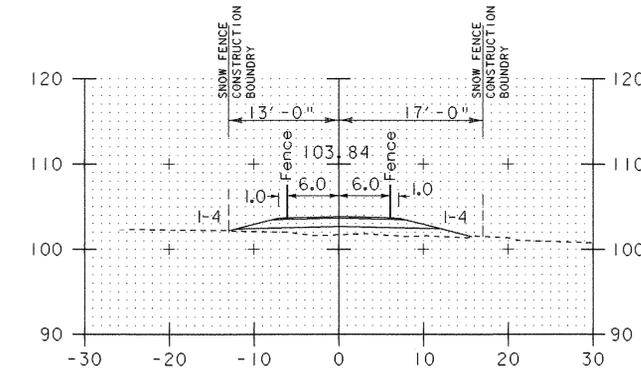
FILE NAME: str5/03f038/sf038xsl.dgn PLOT DATE: 05-AUG-2003
PROJECT LEADER: C. Keller DRAWN BY: G. Shangraw
DESIGNED BY: G. Shangraw CHECKED BY:
sf038xsl5.l SHEET 84 OF 87



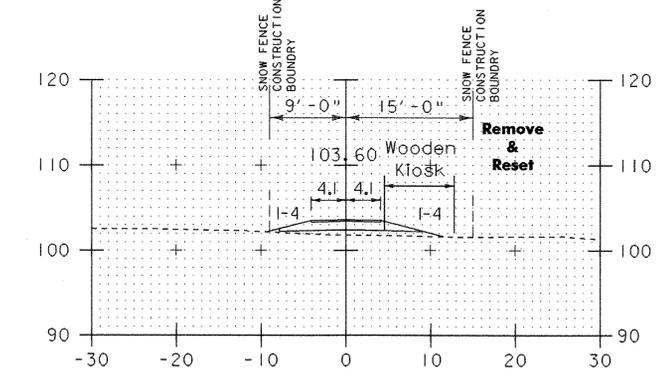
26+80 Sta. 26+70 BEGIN COMMON EXCAVATION
BEGIN STONE FILL TYPE I



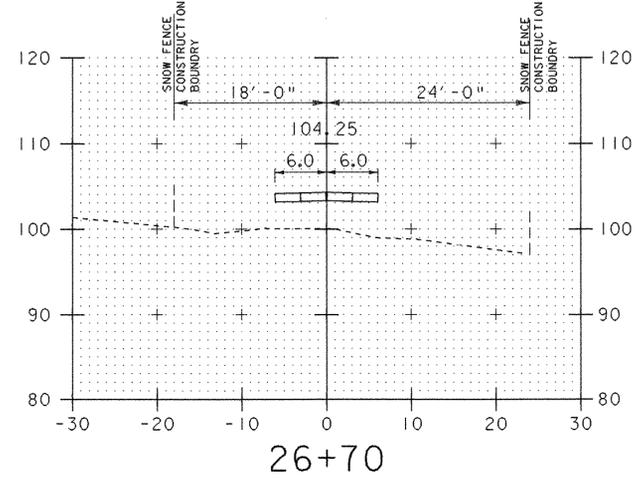
27+10
Sta. 27+05 END STONE FILL TYPE I



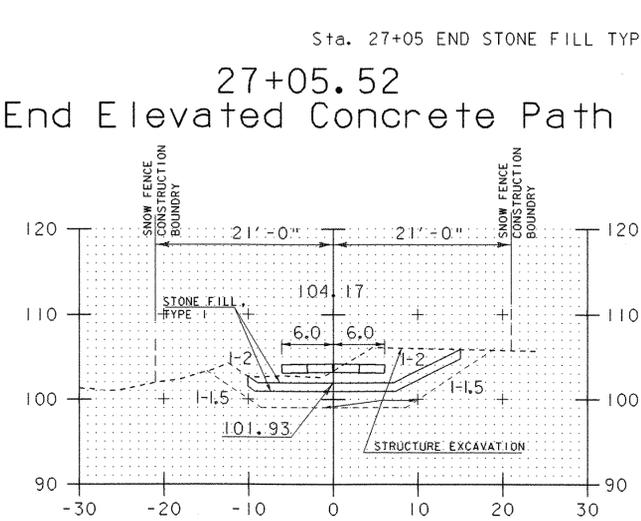
27+40
End Fence Lt. & Rt.
Begin Path Width Taper



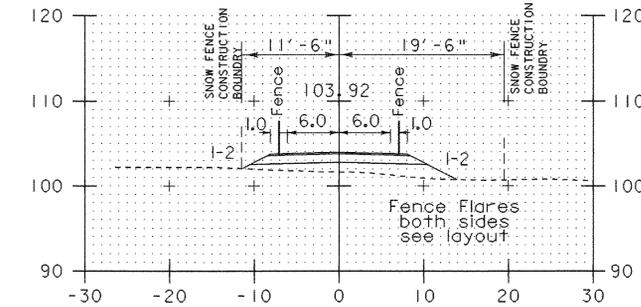
27+70



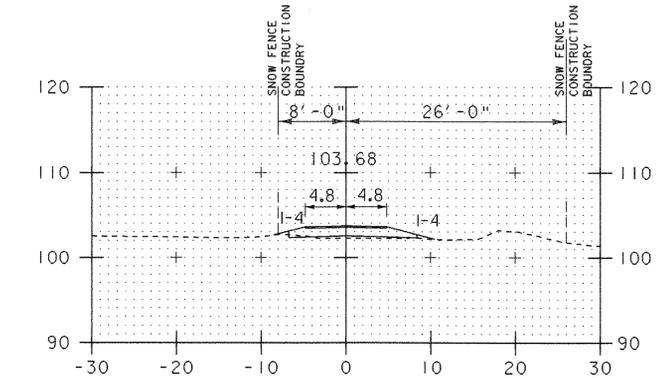
26+70



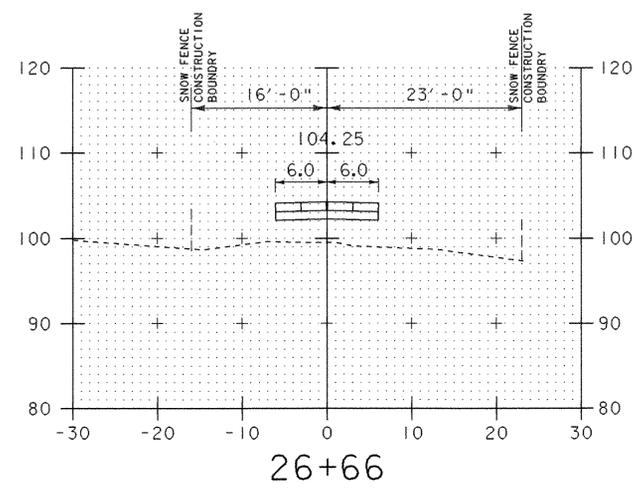
27+00 Sta. 27+00 END COMMON EXCAVATION



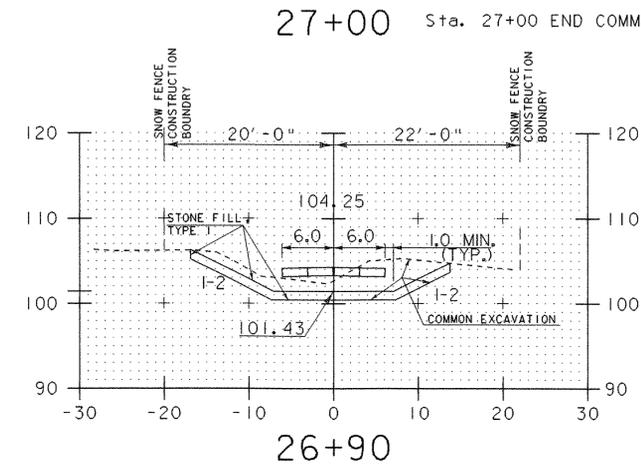
27+30



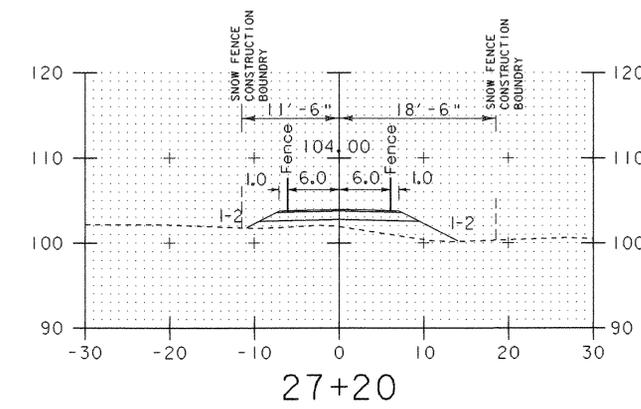
27+60



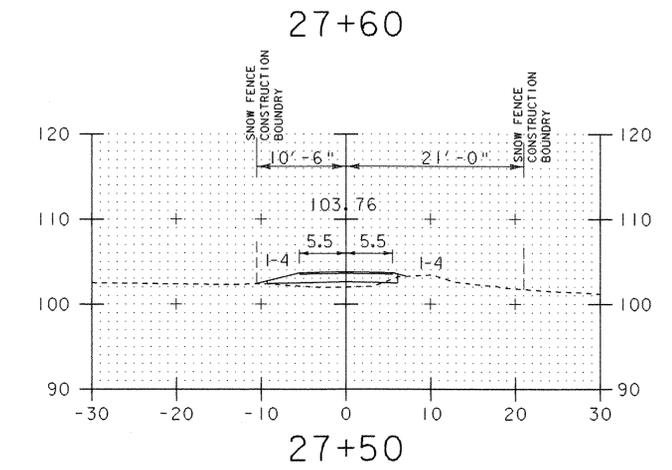
26+66



26+90



27+20

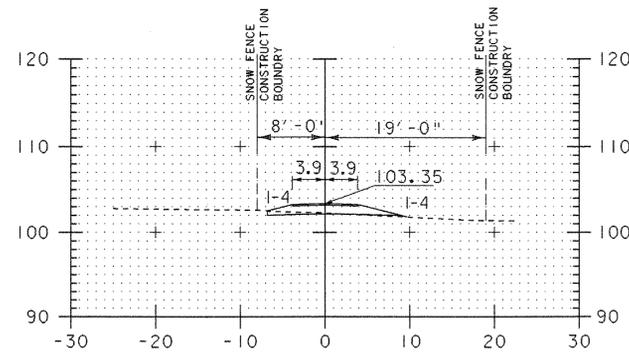


27+50

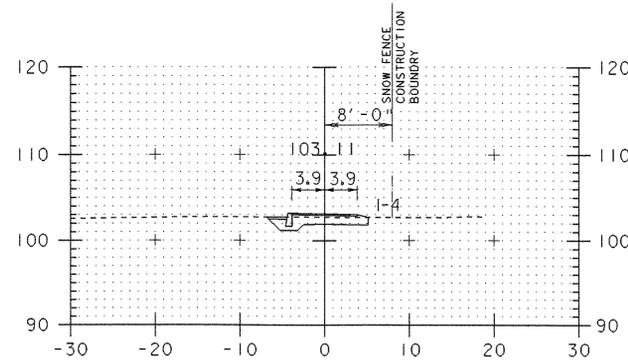
CROSS SECTIONS 26+66 - 27+70

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+62.00
End Project

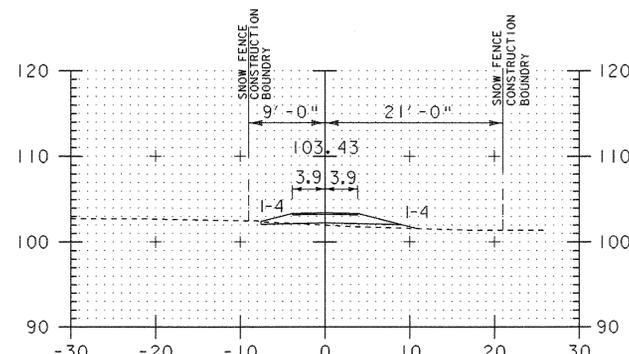


28+00

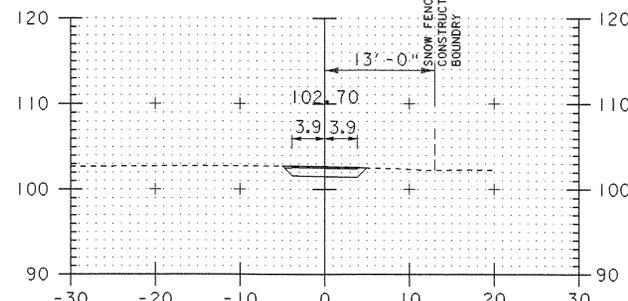


28+30

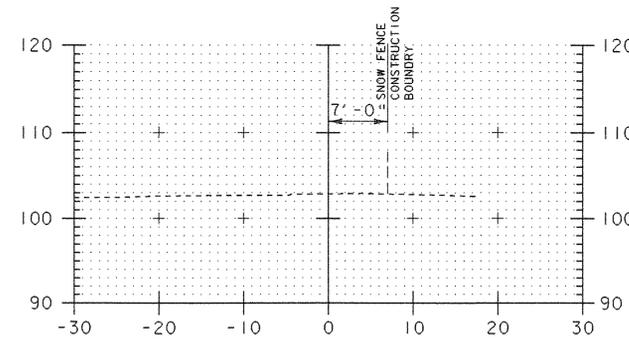
28+25 Begin Curbed Typical
28+25 to 28+30 Construct Ramp



27+90

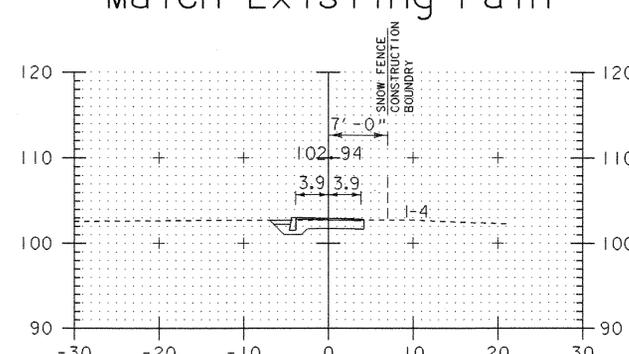


28+20

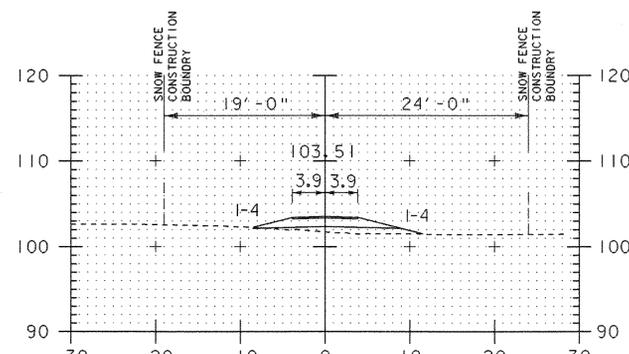


28+60

Match Existing Path

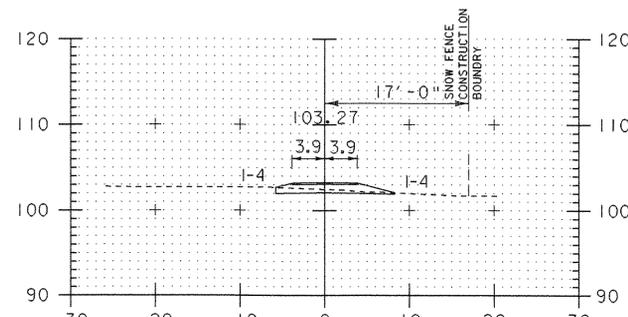


28+50



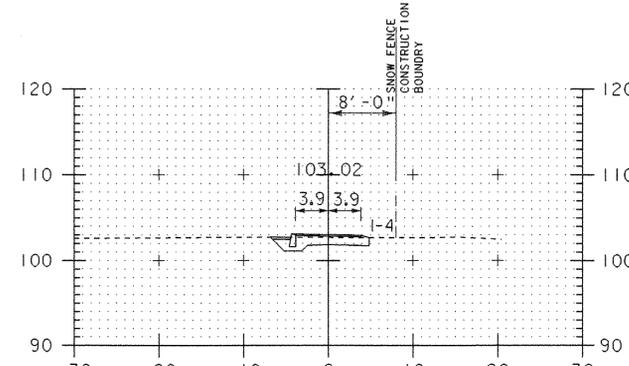
27+80

End Path Width Taper



28+10

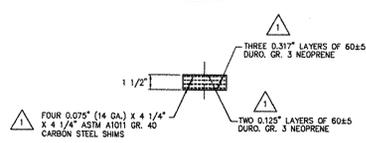
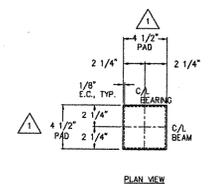
28+10 to 28+15
Construct Ramp



28+40

CROSS SECTIONS 27+80 - 28+60

PROJECT NAME:	Colchester	FILE NAME:	str5/03f038/sf038xsl.dgn	PLOT DATE:	05-AUG-2003
PROJECT NUMBER:	STP Bike(48)	PROJECT LEADER:	C. Keller	DRAWN BY:	
		DESIGNED BY:	G. Shangraw	CHECKED BY:	
				SHEET	86 OF 87



ELEVATION
 MK. 01, 592 REQ'D. - ITEM 531.10
 8 EACH AT ABUTTS. 1 & 2
 16 EACH AT PERS. 1 - 36

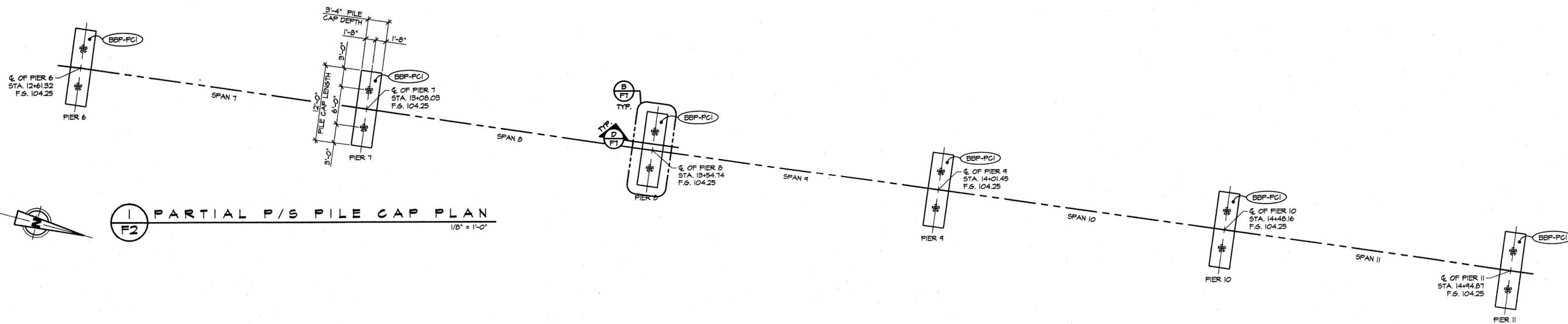
BRG. MK.	Q1
SHAPE FACTOR	3.35
COMP. AREA IN. 2	18.06
SHEAR AREA IN. 2	25.25
EFFECTIVE RUBBER IN.	1.20
LENGTH TO HEIGHT RATIO	3.75
R (DL + SOL) KPS	5.7
R (L) KPS	2.8
MAX. ALLOWABLE STRESS PS	1000
DESIGN ROTATION RAD.	0.014

- NOTES:
- BEARING PADS TO BE MANUFACTURED IN ACCORDANCE WITH VT. AGENCY OF TRANSPORTATION STANDARD SPECIFICATION SECTION 731 AND THE PROJECT PLANS (ASHTO DIVISION 4 SECTION 18.2 AND ASHTO MATERIALS SPECIFICATION M251).
 - NEOPRENE IS 60 ± 5 DURO, GRADE 3. INTERNAL SHIMS ARE 14 GA. ASTM A1011 GR. 40.
 - THE BEARINGS WERE DESIGNED USING METHOD A, ASHTO SECTION 14.
 - 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 ±0.005 RADIAN
 - TOP & BOTTOM ±0.005 RADIAN
 - SIDES ±0.02 RADIAN
 - 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 25% OF THE NOMINAL COVER LAYER THICKNESS
 - LEVEL 1 TESTING REQUIRED BY S.E.P.
 - ONLY ITEMS SHOWN ON THIS DRAWING ARE TO BE PROVIDED BY SEISMIC ENERGY PRODUCTS, L.P.

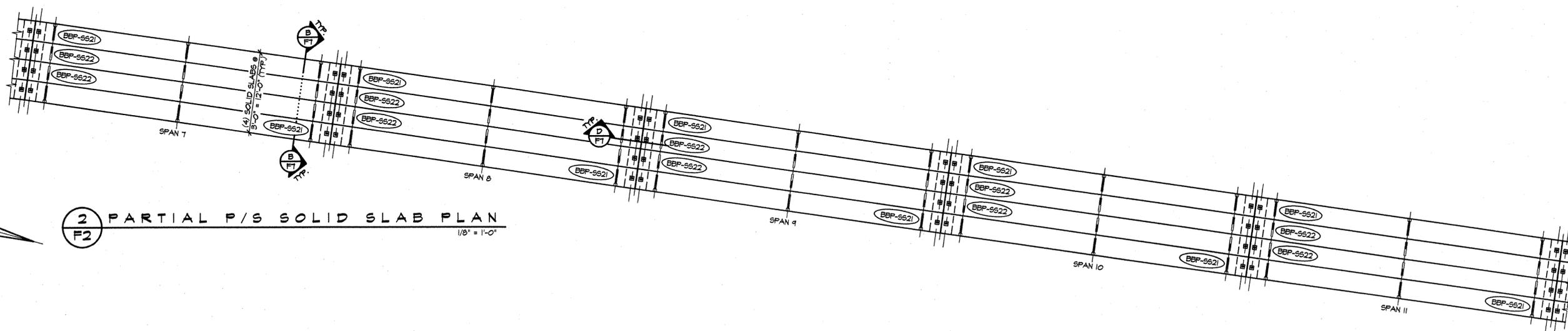
RECEIVED
 CK'D BY M. E. M. CK'D BY _____
 NOV 06 2003
 RESUBMIT _____ APPROVED ✓
 BY _____ DATE 11/6/03

REVISED PER VADT	11/3/03	
REV. NO.	DESCRIPTION	DATE
PROJECT NO.	STP BIKE (48)	COUNTY
CONTRACTOR	KUBROCK CONSTRUCTION CORP.	CHITTENDEN
Seismic Energy Products, L.P. STRUCTURAL BEARINGS FOR BRIDGES & ROADWAYS P.O. BOX 188 STATE OF VERMONT AGENCY OF TRANSPORTATION STRUCTURAL BEARING DETAILS FOR: STP BIKE (48), TOWN OF COLCHESTER, VT.		
CAD FILE NO. 18415VT	DATE: 10/02/03	P.O. NO. 362
CUSTOMER: KUBROCK CONSTRUCTION CORP. 237 BAY STREET COLCHESTER, VT. 05031	DATE: 10/02/03	S.O. NO. 19415
DATE: 10/02/03	REV. 1	DATE: 09/03/07

088
 19415
 0903197
 SHEET 1 OF 1



1 PARTIAL P/S FILE CAP PLAN
F2
1/8" = 1'-0"



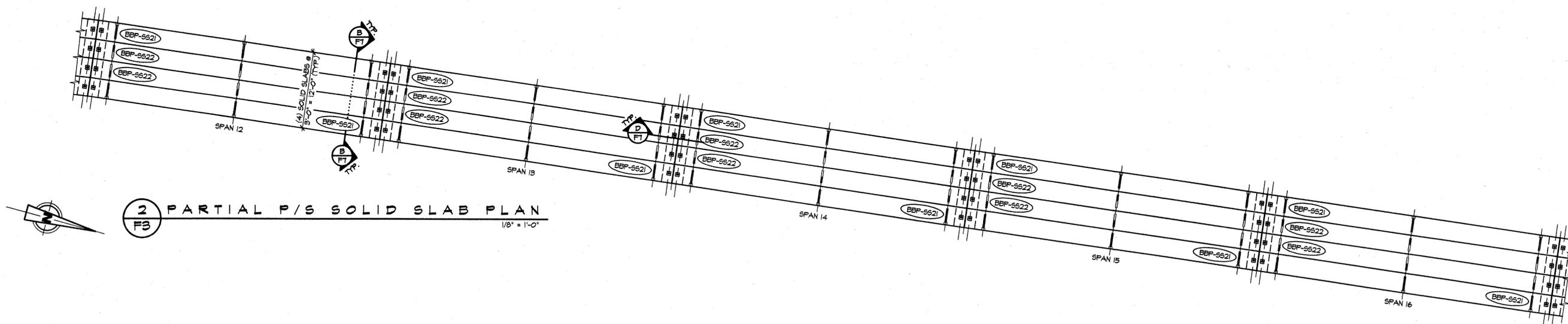
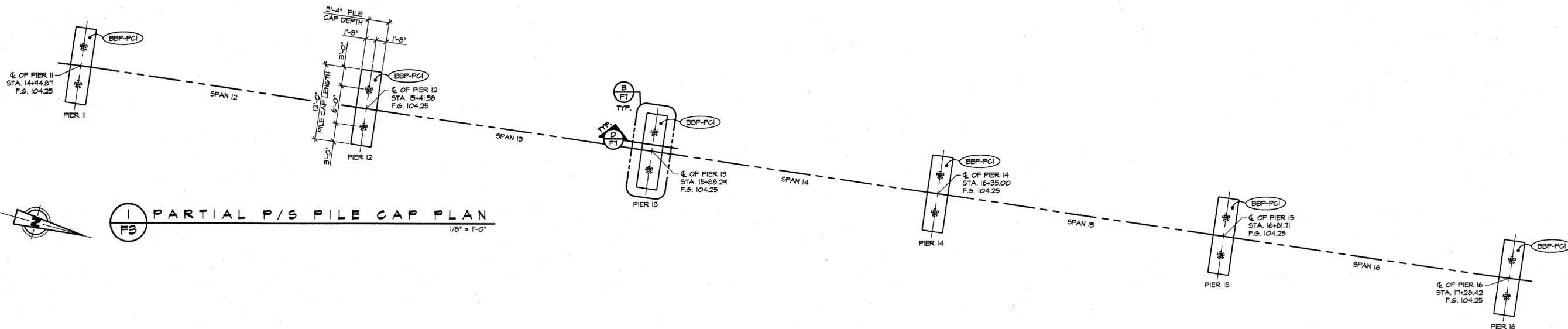
2 PARTIAL P/S SOLID SLAB PLAN
F2
1/8" = 1'-0"

J.P. CARRARA & SONS, INC.

NOV 12 2003

ISSUED FOR PRODUCTION

APPROVAL STAMP: RECEIVED CK'D BY: <i>M. Gall</i> OK'D BY: _____ NOV 14 2003 RESUBMIT: _____ APPROVED: _____ BY: _____ DATE: 12/3/03	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-0010</small>		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 FILE CAP & SOLID SLAB LAYOUTS (SPANS 7-11)		DWG. NO: F2 090	

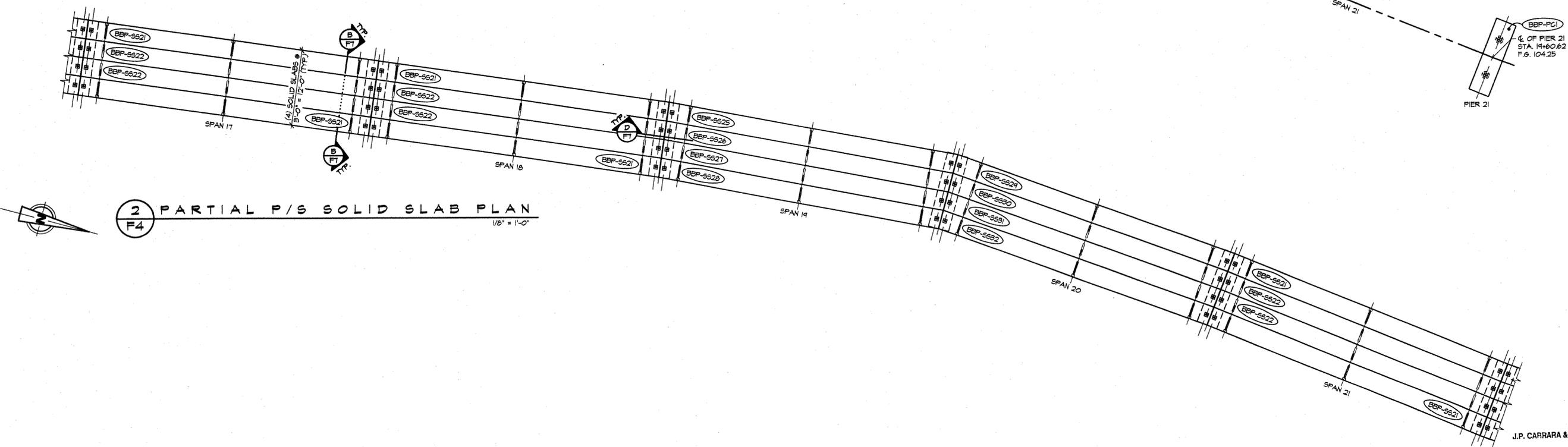
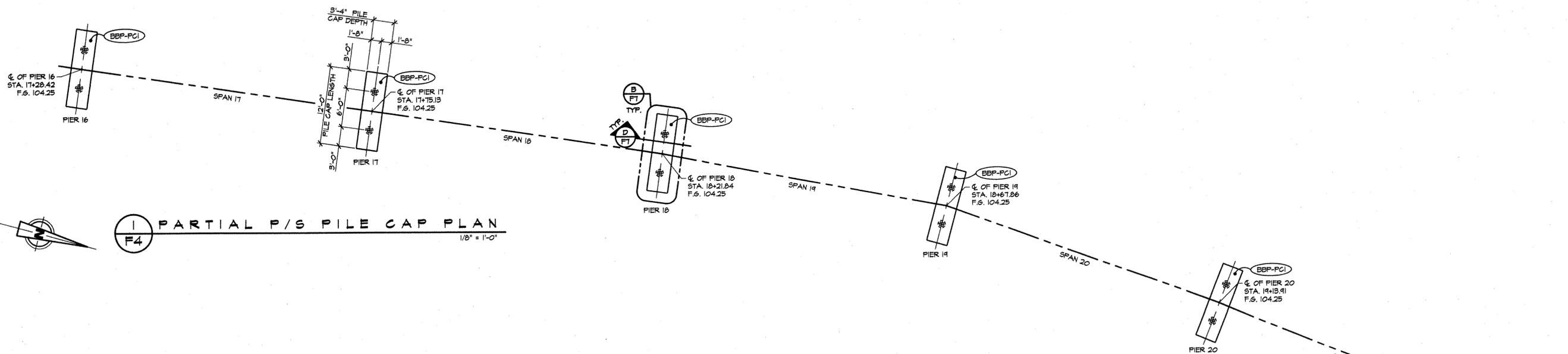


J.P. CARRARA & SONS, INC.

NOV 12 2003

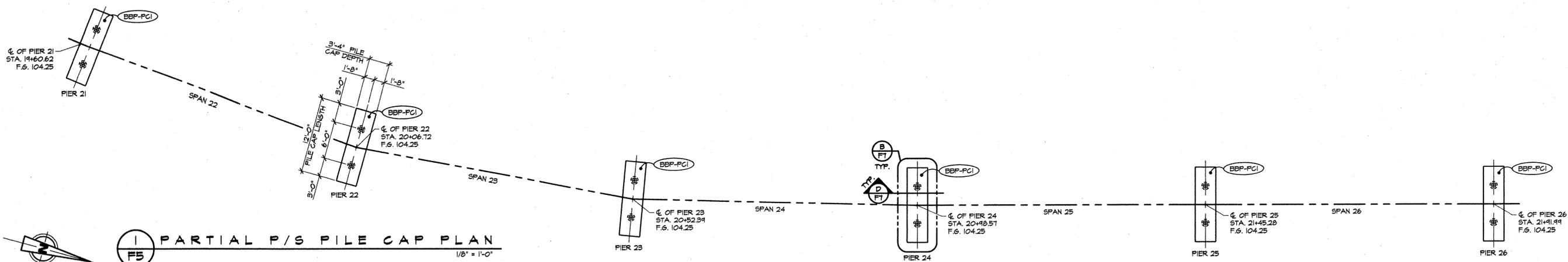
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APPROVAL STAMP: RECEIVED CKD BY: <i>[Signature]</i> OK'D BY: <i>[Signature]</i> NOV 14 2003 RESUBMIT _____ APPROVED _____ BY _____ DATE 12/3/03	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2444 CASE STR., MOORESBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010</small>		KUBRICKY CONSTRUCTION CORP. CONTRACTOR <small>GLENS FALLS, NEW YORK</small>	
	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: F3 09/	

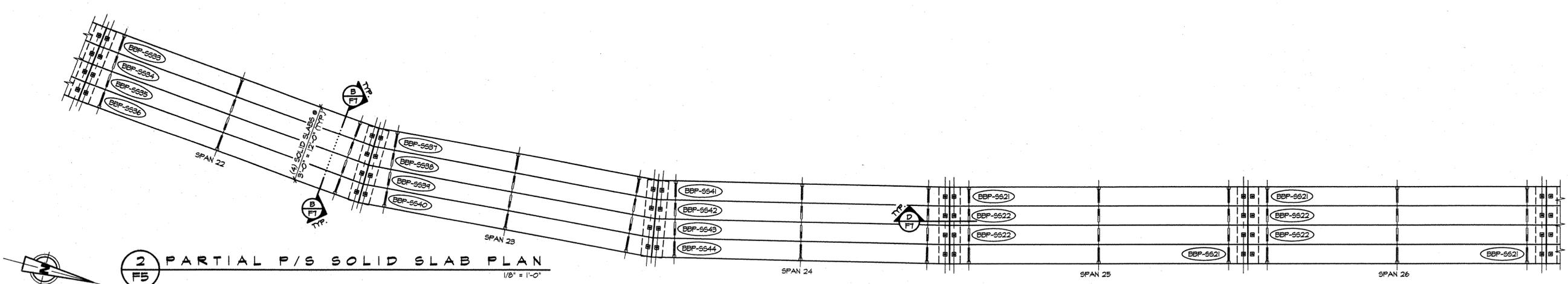


J.P. CARRARA & SONS, INC.
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APPROVAL STAMP: RECEIVED OK'D BY <i>MGM</i> OK'D BY _____ NOV 14 2003 RESUBMIT _____ APPROVED _____ BY _____ DATE 12/3/03	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2444 CASE ST., WOODBURY, VERMONT 05753 Phone: (802)388-8361 Fax: (802)388-9010</small>		KUBRICKY CONSTRUCTION CORP. CONTRACTOR <small>GLENS FALLS, NEW YORK</small>	
	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	



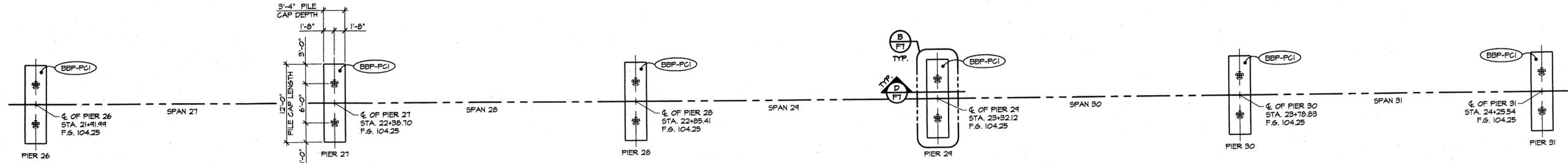
1 PARTIAL P/S PILE CAP PLAN
F5
1/8" = 1'-0"



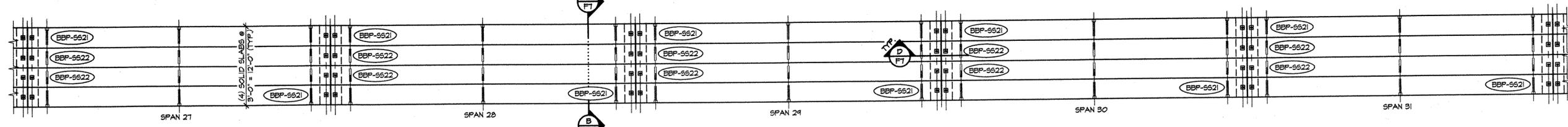
2 PARTIAL P/S SOLID SLAB PLAN
F5
1/8" = 1'-0"

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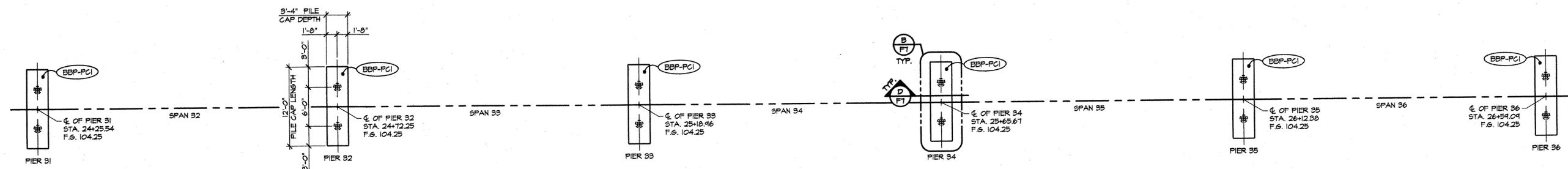
APPROVAL STAMP: RECEIVED OK'D BY <i>Mgn</i> OK'D BY _____ NOV 14 2003 RESUBMIT _____ APPROVED _____ BY _____ DATE 12/3/03	J.P. CARRARA & SONS INC. KUBRICKY CONSTRUCTION CORP. Precast & Prestress Manufacturer CONTRACTOR <small>2484 CASE ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-8361 Fax:(802)388-9010</small> <small>GLENS FALLS, NEW YORK</small>	
	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 FILE CAP & SOLID SLAB LAYOUTS (SPANS 22-26)	



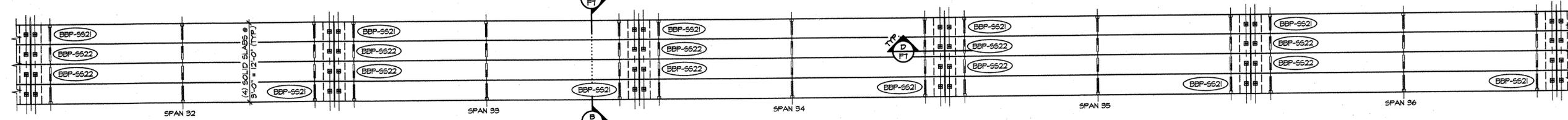
1 PARTIAL P/S PILE CAP PLAN
F6 1/8" = 1'-0"



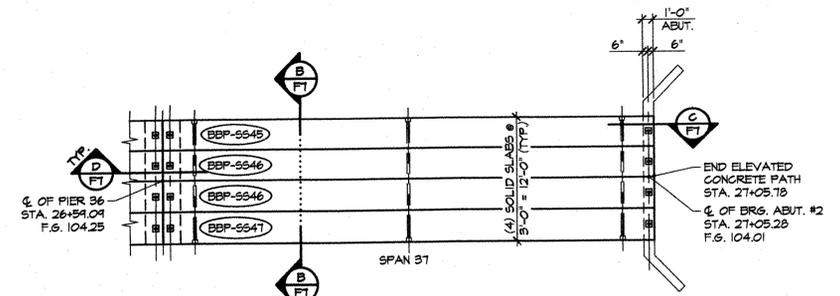
2 PARTIAL P/S SOLID SLAB PLAN
F6 1/8" = 1'-0"



3 PARTIAL P/S PILE CAP PLAN
F6 1/8" = 1'-0"



4 PARTIAL P/S SOLID SLAB PLAN
F6 1/8" = 1'-0"

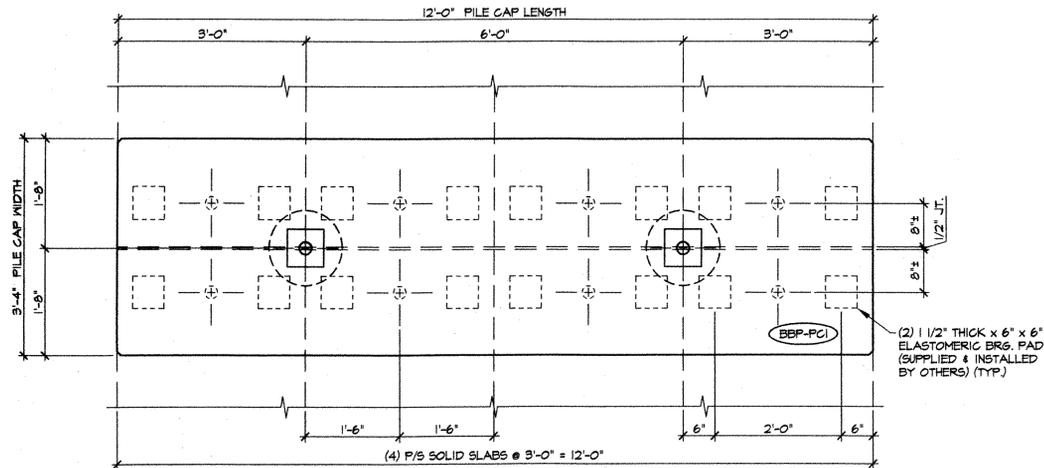


5 PARTIAL P/S SOLID SLAB PLAN
F6 1/8" = 1'-0"

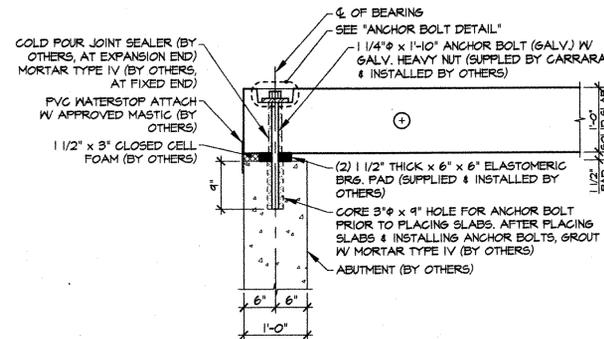
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 BY DATE 12/3/03

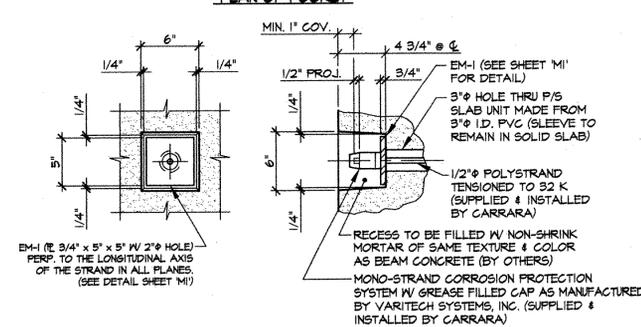
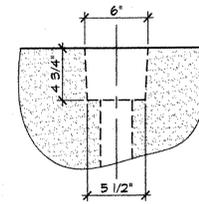
J.P. CARRARA & SONS, INC. Precast & Prestress Manufacturer <small>2444 CASE ST., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010</small>		KUBRICKY CONSTRUCTION CORP. CONTRACTOR <small>GLENS FALLS, NEW YORK</small>	
STATE OF VERMONT AGENCY OF TRANSPORTATION		DATE: SEPT. 26, 2003 SCALE: NOTED	
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)		CHKD:	DFTM: B.L.
P/S PILE CAP & SOLID SLAB LAYOUTS (SPANS 27-31, 32-36, & 37)		JOB NO:	23169-03
		DWG. NO:	F6 094



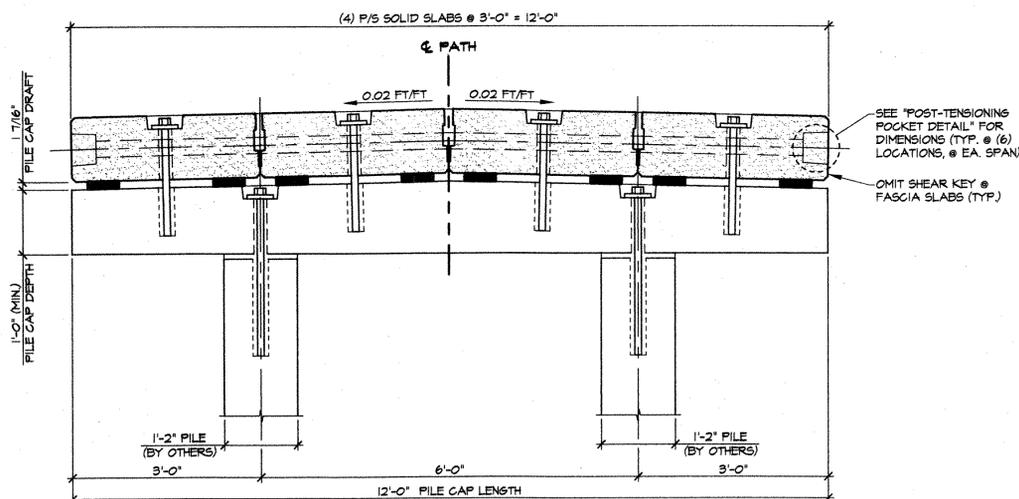
A PILE CAP PLAN
F7
3/4" = 1'-0"



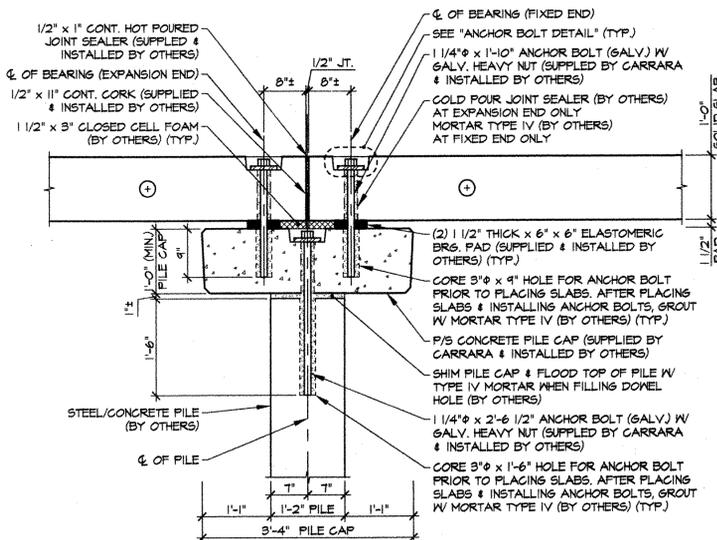
C BEARING SECTION AT ABUTMENT
F7
3/4" = 1'-0"



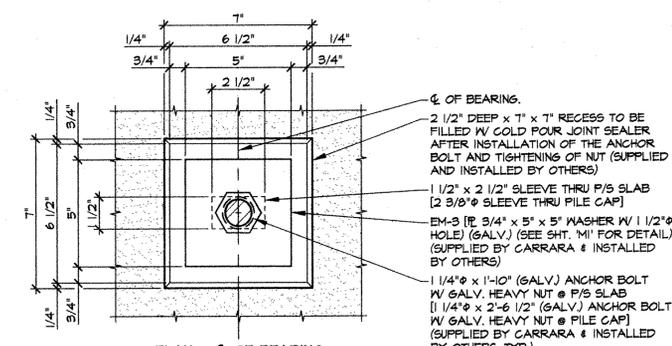
POST-TENSIONING POCKET DETAIL
1 1/2" = 1'-0"



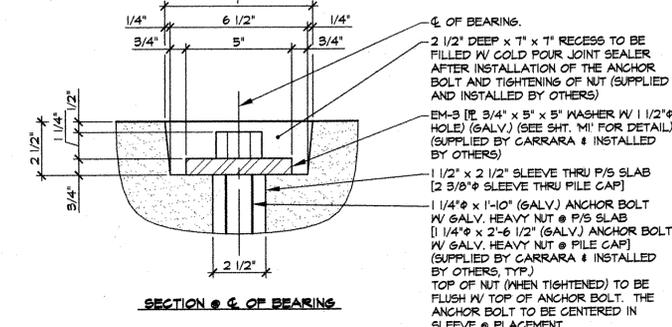
B TRANSVERSE SECTION
F7
3/4" = 1'-0"



D BEARING SECTION AT PIER
F7
3/4" = 1'-0"

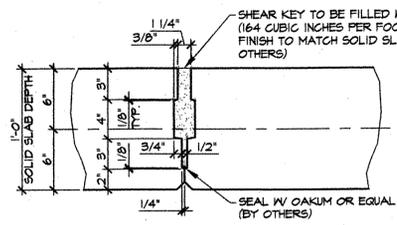


PLAN @ C. OF BEARING

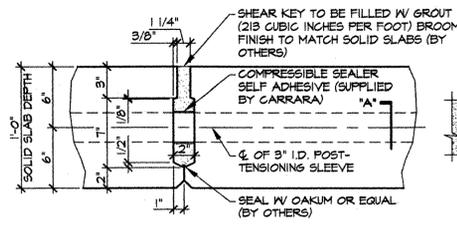


SECTION @ C. OF BEARING

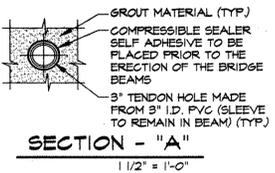
ANCHOR BOLT DETAIL
3" = 1'-0"



E TYP. SHEAR KEY SECTION
F7
1 1/2" = 1'-0"



F SHEAR KEY SECTION AT P.T. SLEEVE
F7
1 1/2" = 1'-0"



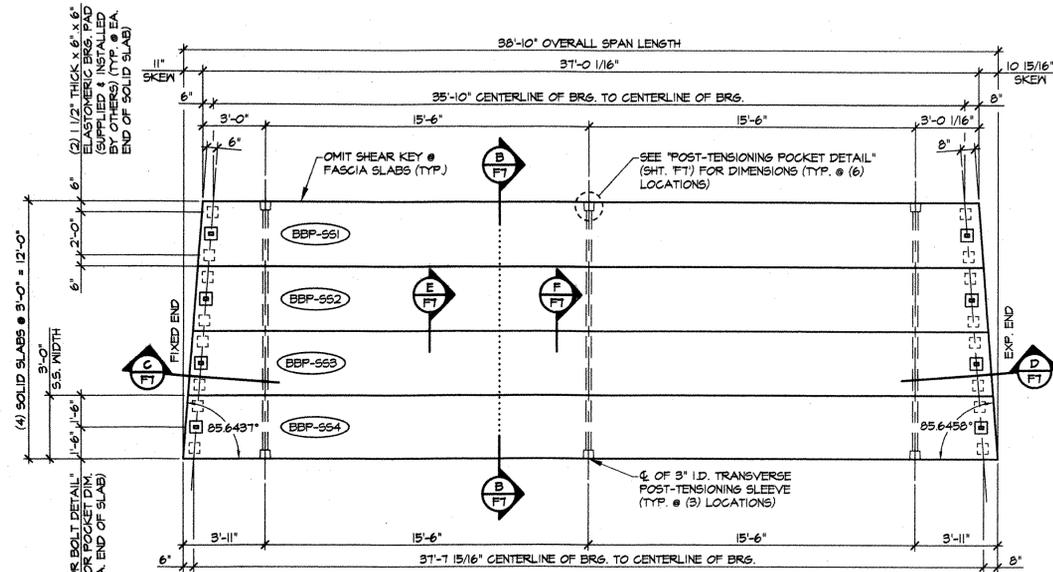
SECTION - 'A'
1 1/2" = 1'-0"

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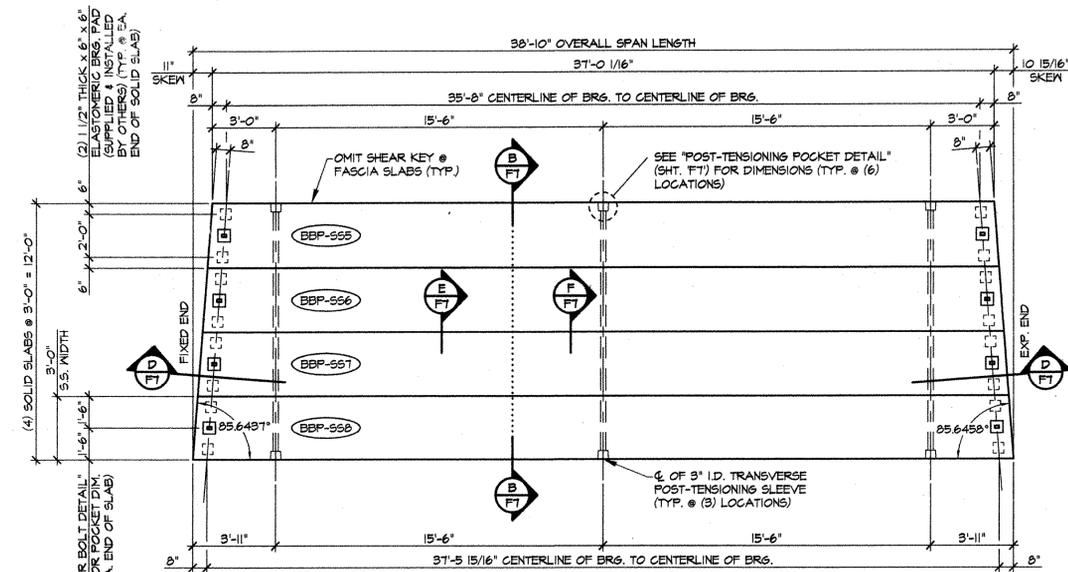
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BY DATE 12/3/03

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 244 CASE ST., 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	



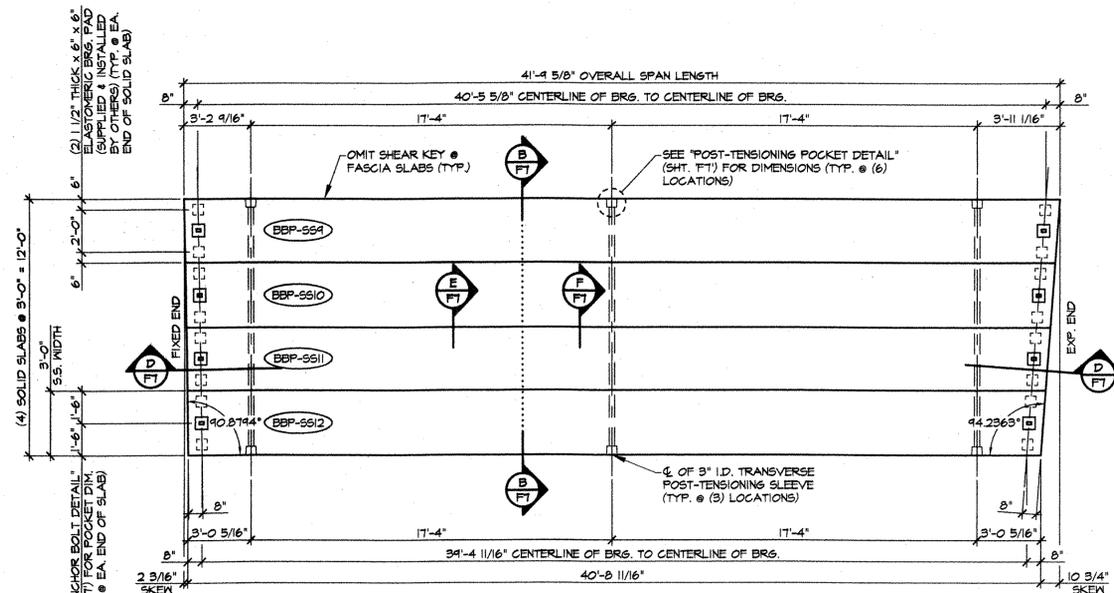
P/S SOLID SLAB LAYOUT
SPAN 1
1/4" = 1'-0"

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



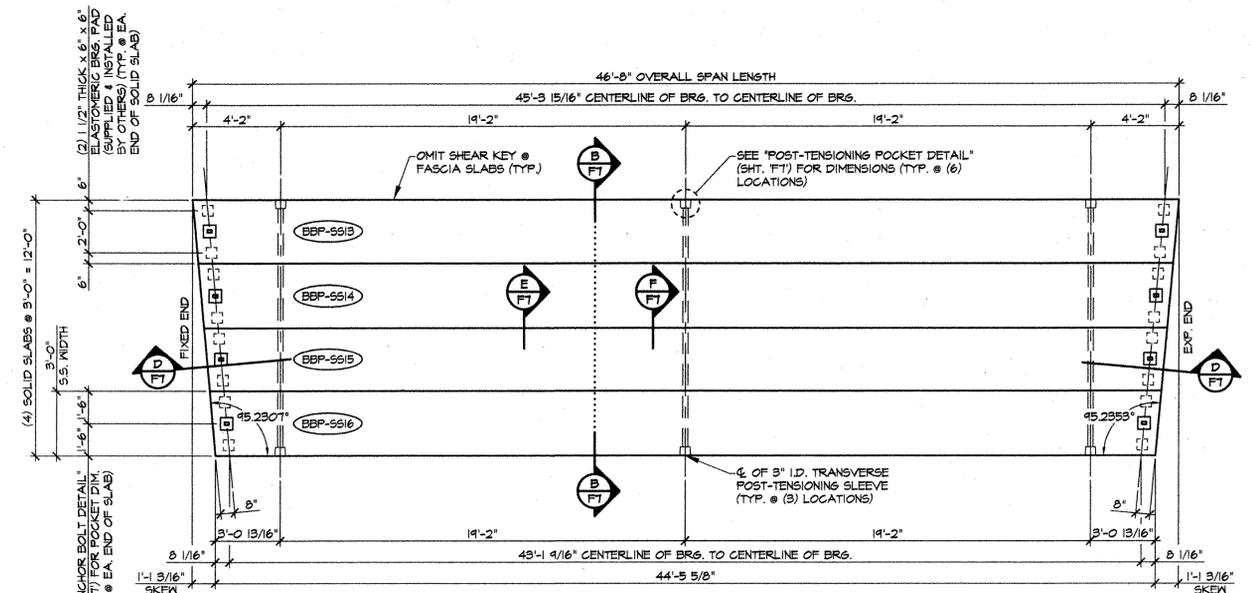
P/S SOLID SLAB LAYOUT
SPANS 2 & 3
1/4" = 1'-0"

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



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

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



P/S SOLID SLAB LAYOUT
SPAN 5
1/4" = 1'-0"

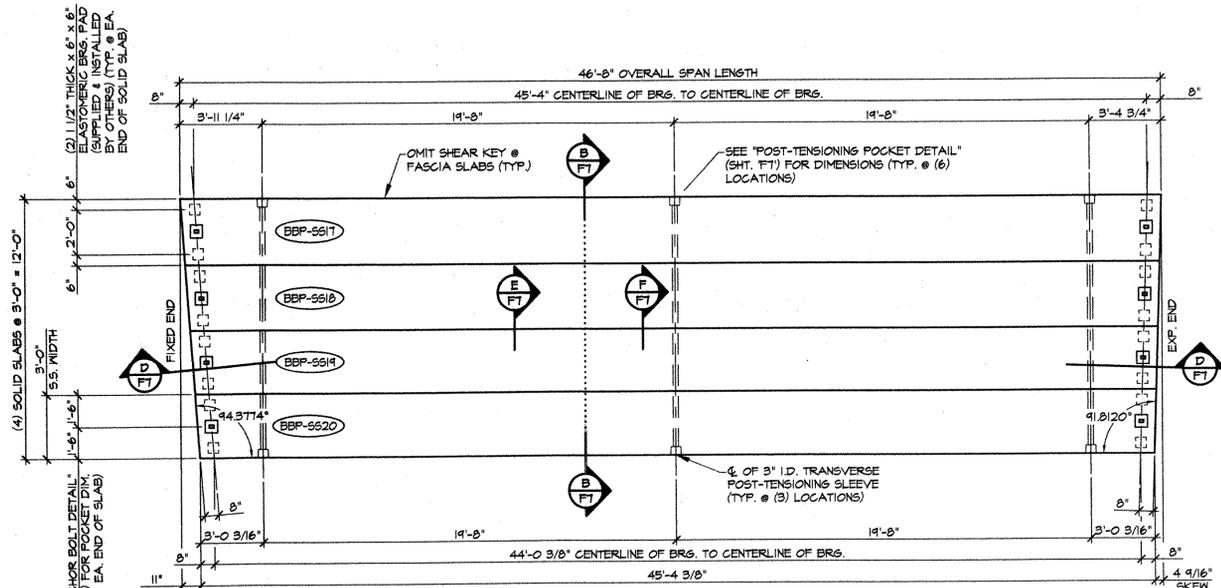
- ERECTION MATERIALS (QTY. / SPAN)**
- (6) EM-1 [E] WASHER 3/4"x5"x5" W/ 2" HOLE
 - (6) SINGLE USE STRESSING CHUCK
 - (3) 1/2" x 14'-4" POLYSTRAND
 - (16) 1 1/2"x6"x6" ELASTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
 - (8) 1 1/4" x 1'-10" ANCHOR BOLT (GALV.)
 - (4) HEAVY NUT (GALV.)
 - (8) EM-3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

J.P. CARRARA & SONS, INC.
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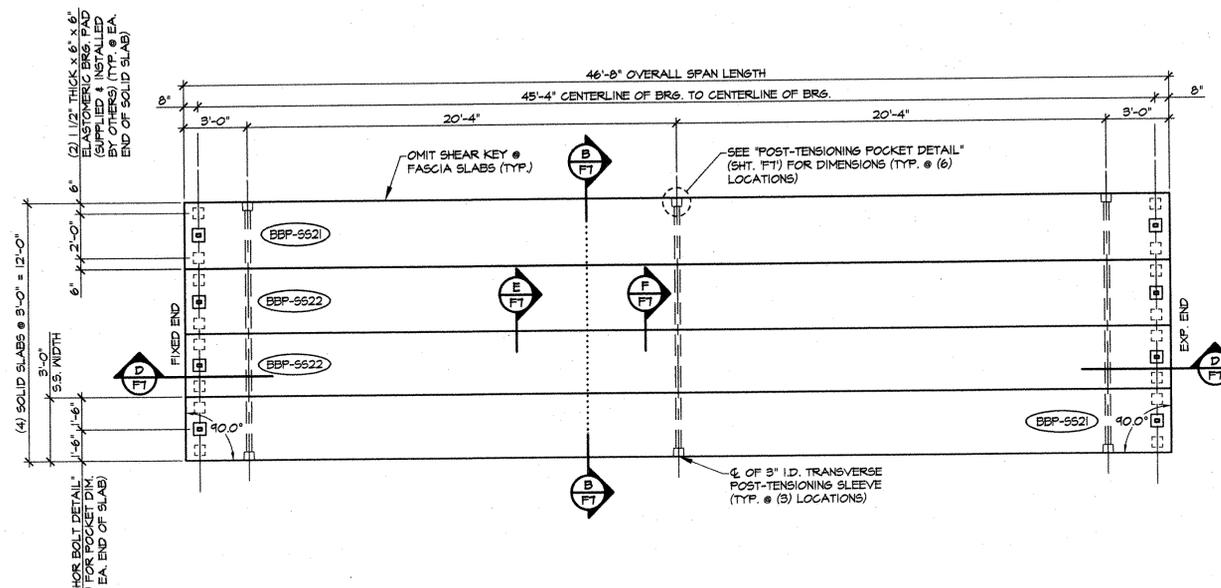
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CHK'D BY: *MJM*
NOV 14 2003
RESUBMIT APPROVED BY: *[Signature]*
DATE: 12/3/03

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2444 CASE ST., MOULBURY, 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: <i>[Signature]</i> DFTM: B.L. JOB NO: 23169-03	
P/S SOLID SLAB LAYOUTS		DWG. NO: F8 096	



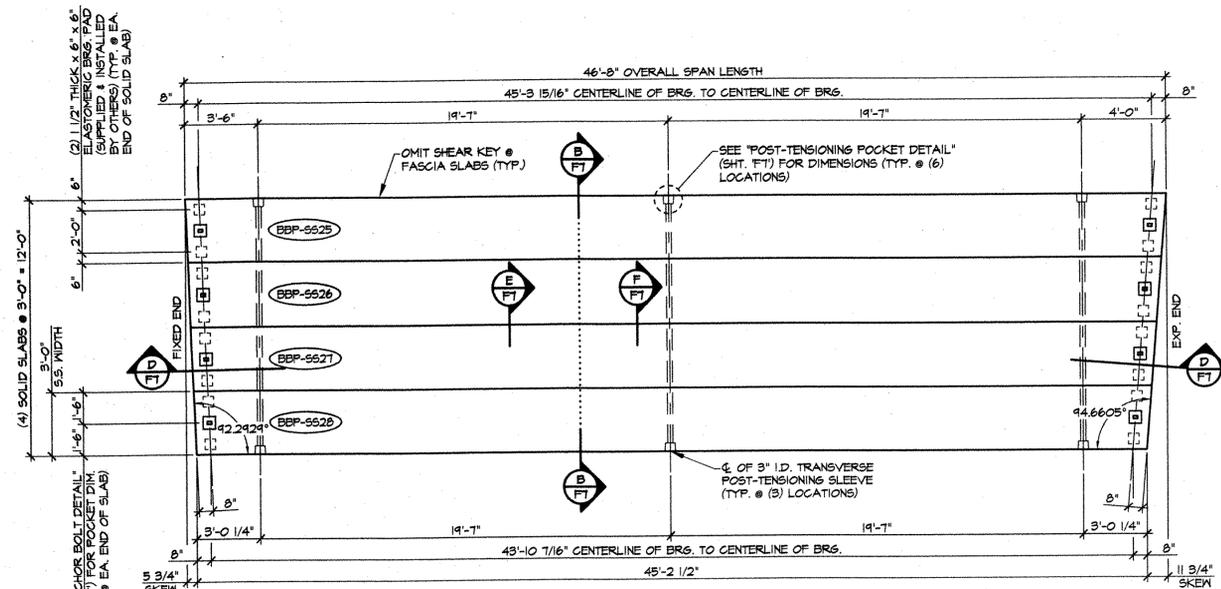
P/S SOLID SLAB LAYOUT
SPAN 6
1/4" = 1'-0"

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



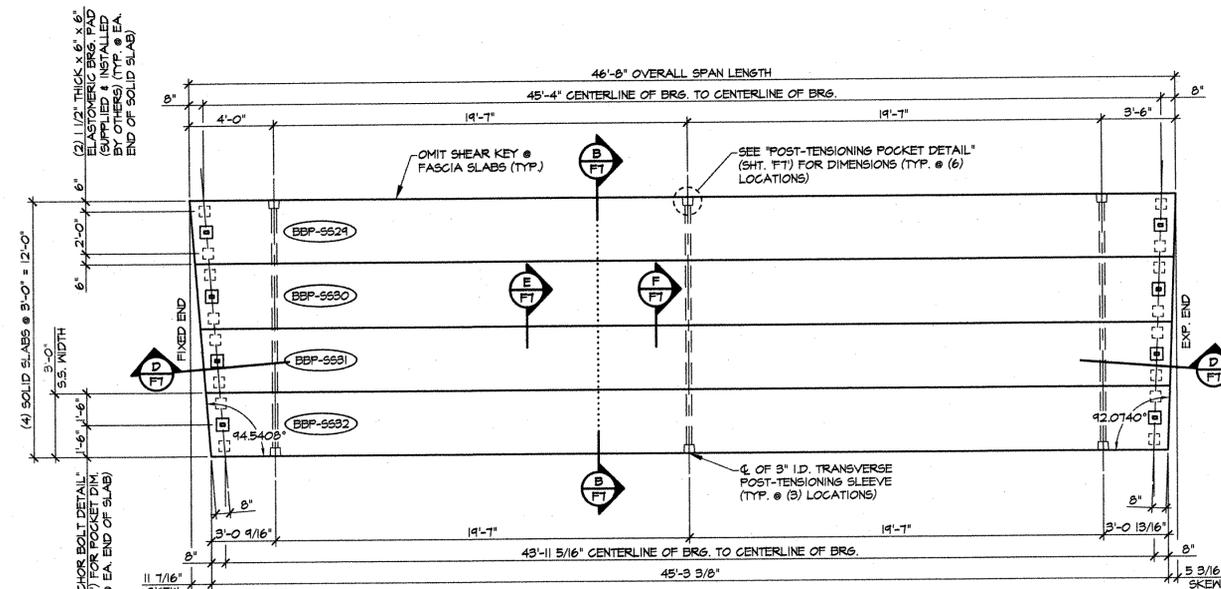
P/S SOLID SLAB LAYOUT
SPANS 7-10, 21, & 25-36
1/4" = 1'-0"

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



P/S SOLID SLAB LAYOUT
SPAN 19
1/4" = 1'-0"

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



P/S SOLID SLAB LAYOUT
SPAN 20
1/4" = 1'-0"

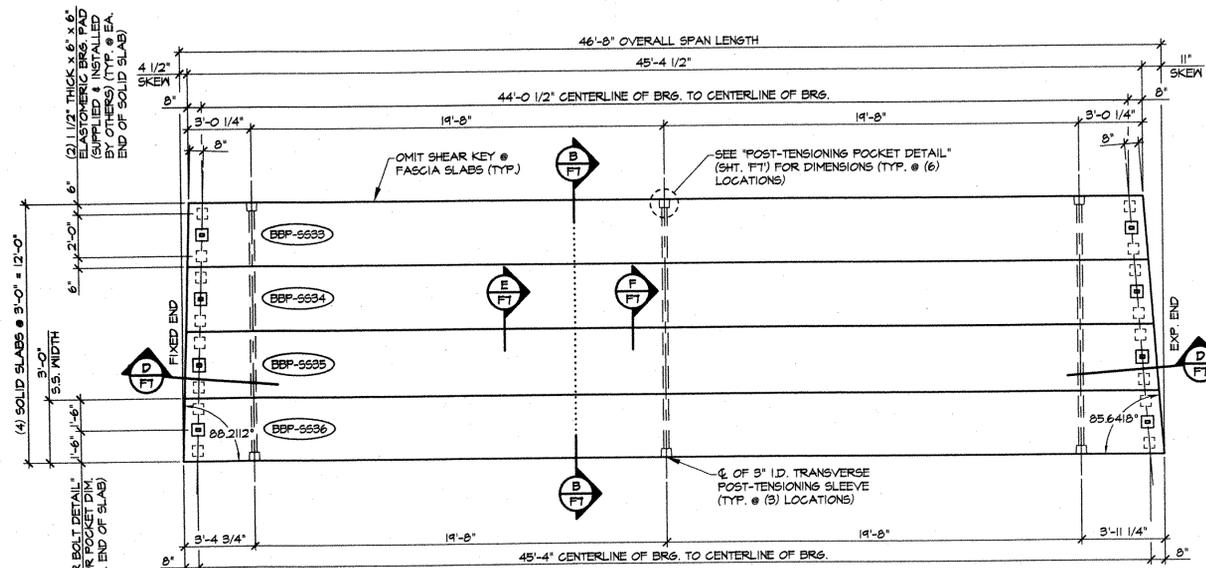
- ERECTION MATERIALS (QTY. / SPAN)**
- (6) EM-1 [E. WASHER 3/4"x5"x5" W/ 2" HOLE]
 - (6) SINGLE USE STRESSING CHUCK
 - (3) 1/2" x 14'-4" POLYSTRAND
 - (16) 1/2"x6"x6" ELASTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
 - (8) 1/4" x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
 - (8) EM-3 [E.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

J.P. CARRARA & SONS, INC.

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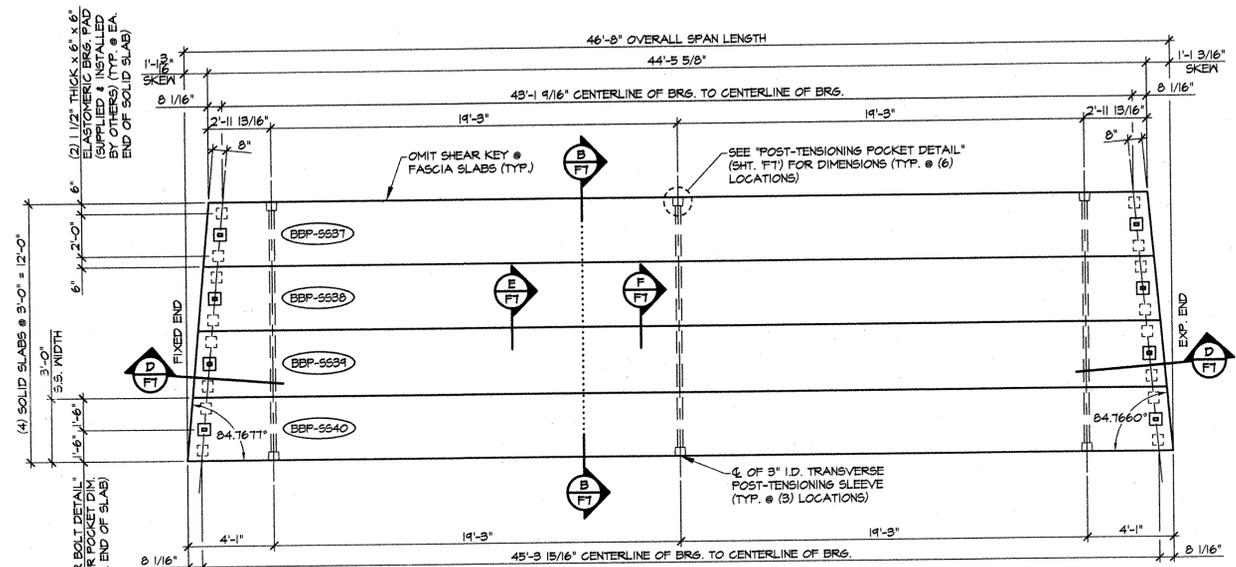
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APPROVAL STAMP: RECEIVED CK'D BY <i>MJM</i> OK'D BY _____ NOV 14 2003 RESUBMIT _____ APPROVED _____ BY _____ DATE 12/3/03	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>264 ONE STR. MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-0010</small>		KUBRICKY CONSTRUCTION CORP. CONTRACTOR <small>GLENS FALLS, NEW YORK</small>	
	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: 23164-03	
	P/S SOLID SLAB LAYOUTS		DWG. NO: F9 097	



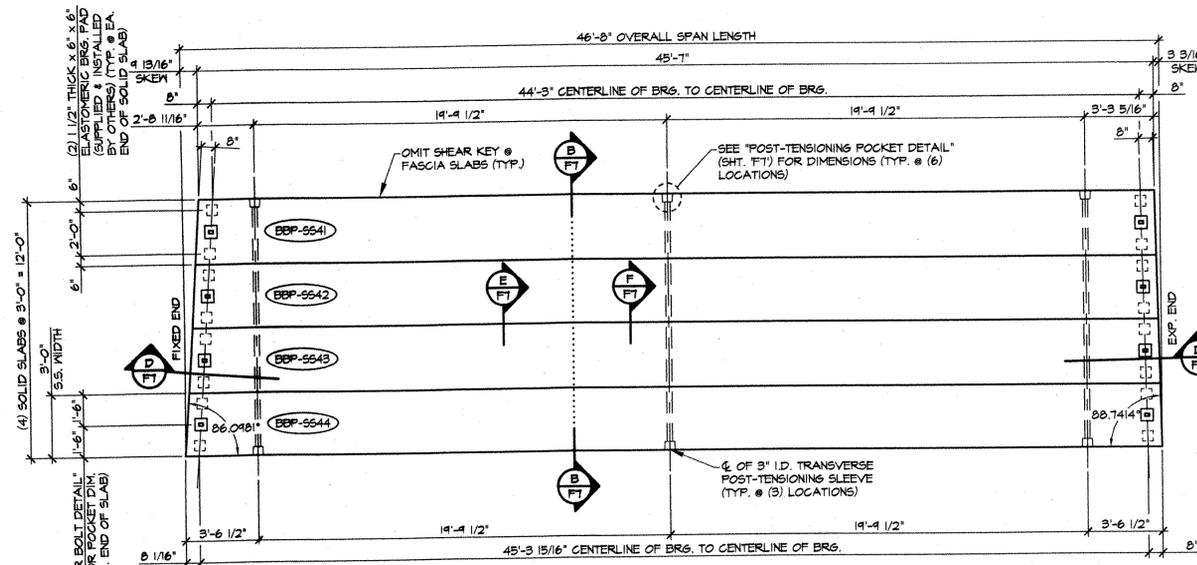
P/S SOLID SLAB LAYOUT
SPAN 22
1/4" = 1'-0"

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



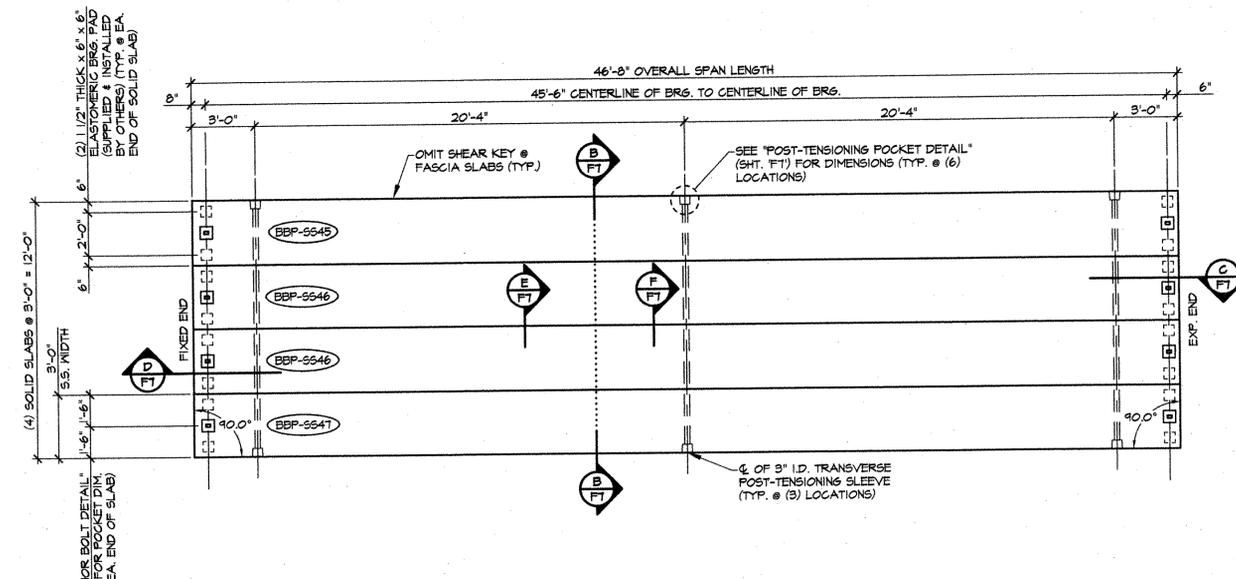
P/S SOLID SLAB LAYOUT
SPAN 23
1/4" = 1'-0"

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



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

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

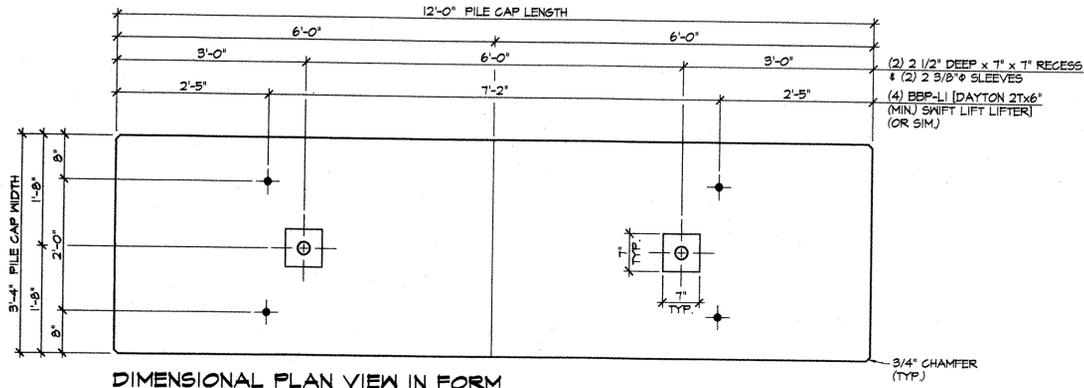


P/S SOLID SLAB LAYOUT
SPAN 25
1/4" = 1'-0"

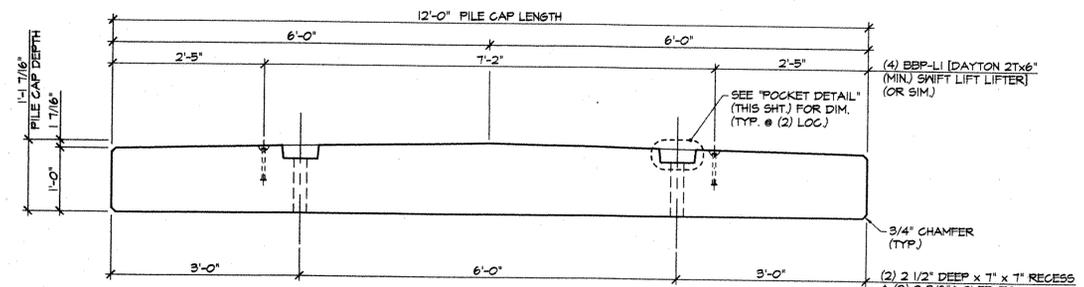
- ERECTION MATERIALS (QTY. / SPAN)**
- (6) EM-1 [E. WASHER 3/4"x5"x5" W/ 2" HOLE]
 - (6) SINGLE USE STRESSING CHUCK
 - (3) 1/2" x 14'-4" POLYSTRAND
 - (16) 1/2"x6"x6" ELASTOMERIC BEARING PAD (SUPPLIED & INSTALLED BY OTHERS)
 - (8) 1 1/4" x 1'-10" ANCHOR BOLT (GALV.) W/ HEAVY NUT (GALV.)
 - (8) EM-3 [E.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

J.P. CARRARA & SONS, INC.
NOV 12 2003
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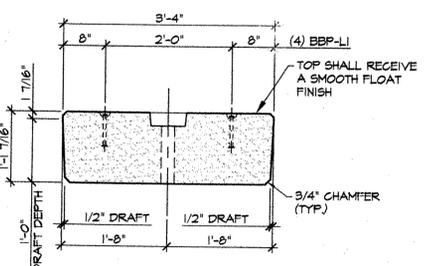
APPROVAL STAMP: RECEIVED CK'D BY <i>Nan</i> OK'D BY _____ NOV 14 2003 RESUBMIT _____ APPROVED _____ BY _____ DATE 12/3/03	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2484 OASE ST., WOODFURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</small>		KUBRICKY CONSTRUCTION CORP. CONTRACTOR <small>GLENS FALLS, NEW YORK</small>	
	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: 23164-03	
	P/S SOLID SLAB LAYOUTS		DWG. NO: F10 <small>018</small>	



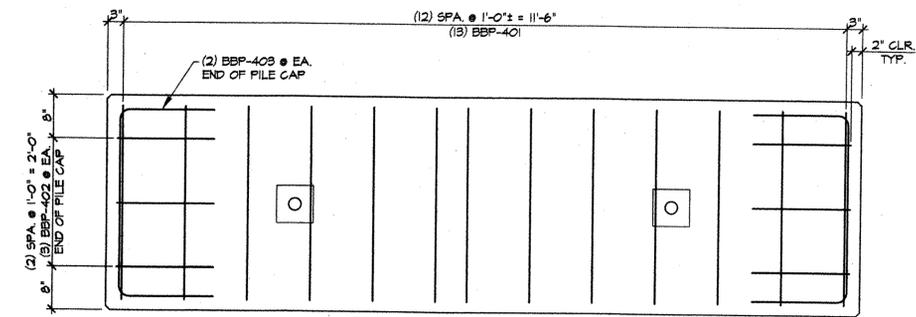
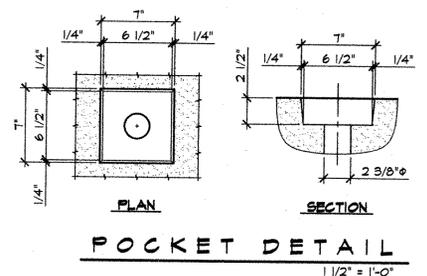
DIMENSIONAL PLAN VIEW IN FORM
3/4" = 1'-0"



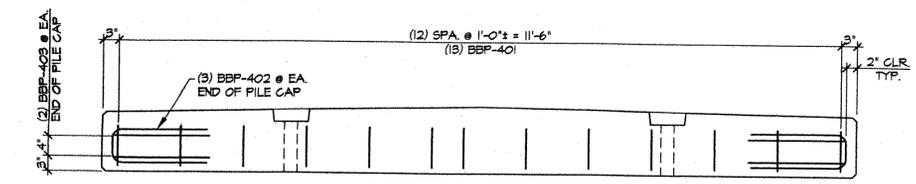
DIMENSIONAL ELEVATION
3/4" = 1'-0"



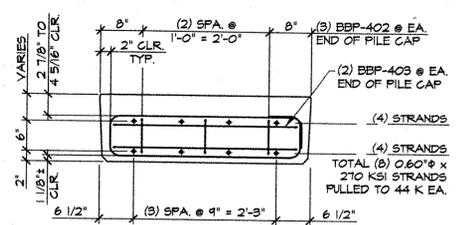
DIMENSIONAL SECTION
3/4" = 1'-0"



REINFORCING PLAN VIEW IN FORM
3/4" = 1'-0"



REINFORCING ELEVATION
3/4" = 1'-0"

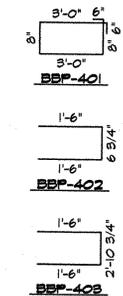


REINFORCING SECTION
3/4" = 1'-0"

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

APPROVED BY VAOT 10-2-03

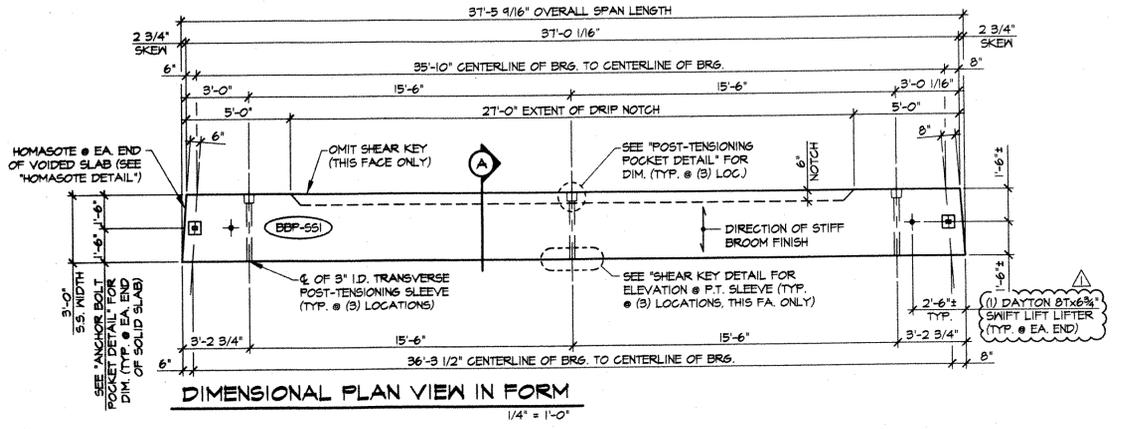
APPROVAL STAMP:
RECEIVED
NOV 14 2003
RESUBMIT APPROVED
BY DATE 12/3/03



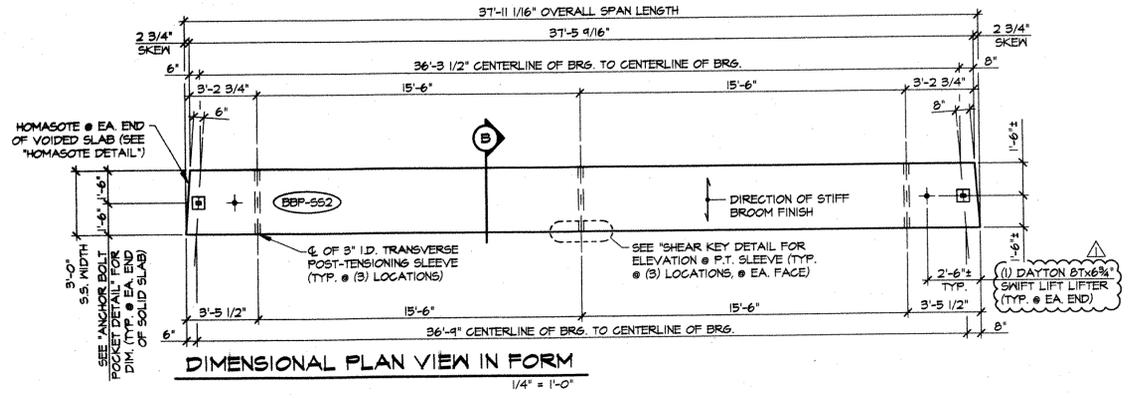
MARK: BBP-PCI	QTY.: 36	WT.: 931 T	VOL.: 1.63 cy
MATERIAL LIST / PILE CAP			
ITEM	MARK	DESCRIPTION	QTY.
1	401	#4 BENT BAR	13
2	402	#4 BENT BAR	6
3	403	#4 BENT BAR	4
4			
5			
6			
7			
8			
9	BBP-LI	DAYTON 2T x 6" (MIN) SWIFT LIFT LIFTER (OR SIM)	4
10			

J.P. CARRARA & SONS INC. KUBRICKY CONSTRUCTION CORP.
Precast & Prestress Manufacturer CONTRACTOR
2444 CASE STR., WOODLURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 GLENS FALLS, NEW YORK

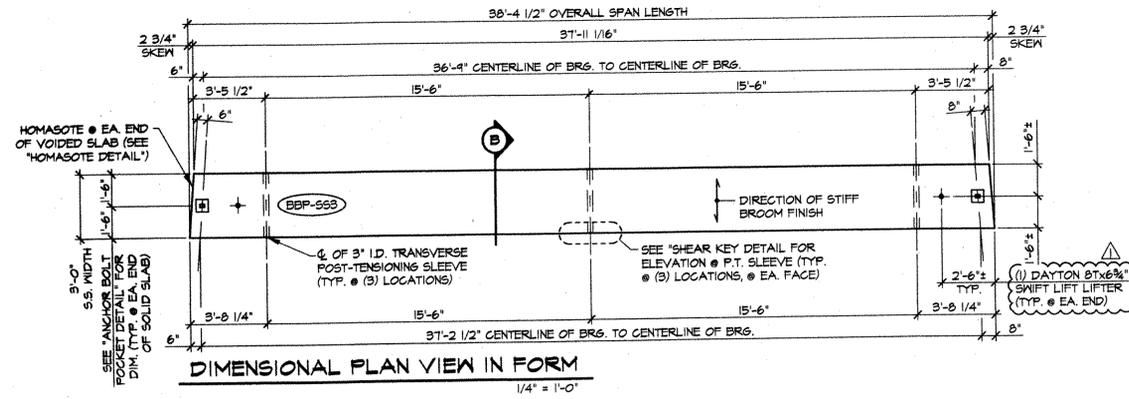
STATE OF VERMONT AGENCY OF TRANSPORTATION DATE: SEPT. 26, 2003
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48) SCALE: NOTED
P/S PILE CAP DETAILS DWG. NO: PCI 099



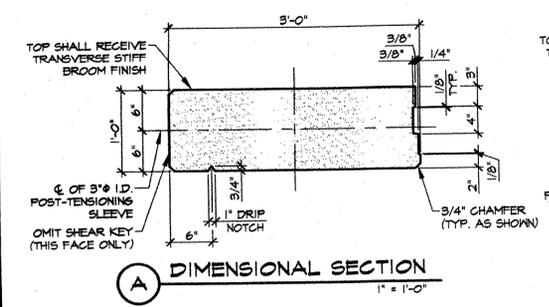
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



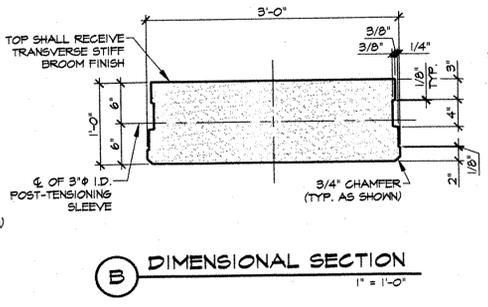
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



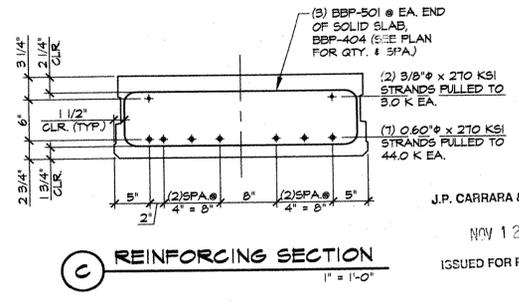
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



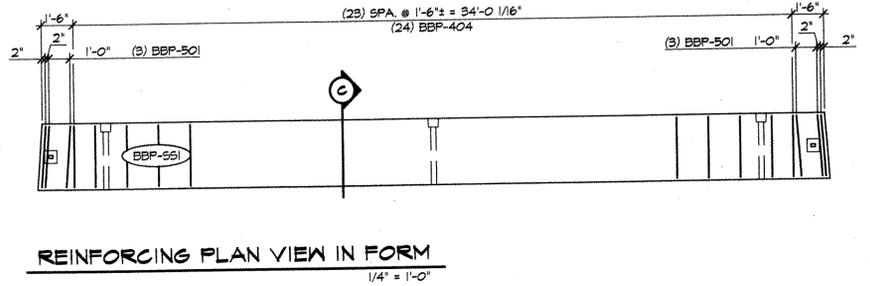
A DIMENSIONAL SECTION
1" = 1'-0"



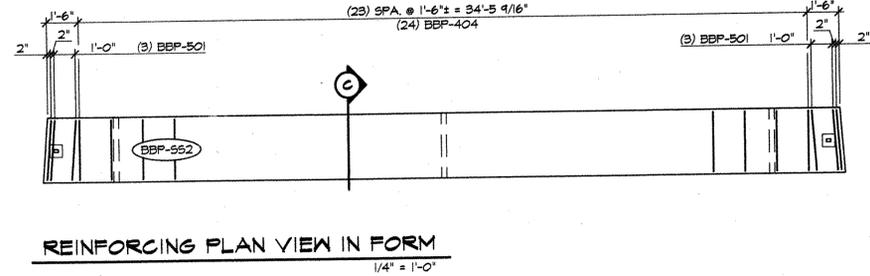
B DIMENSIONAL SECTION
1" = 1'-0"



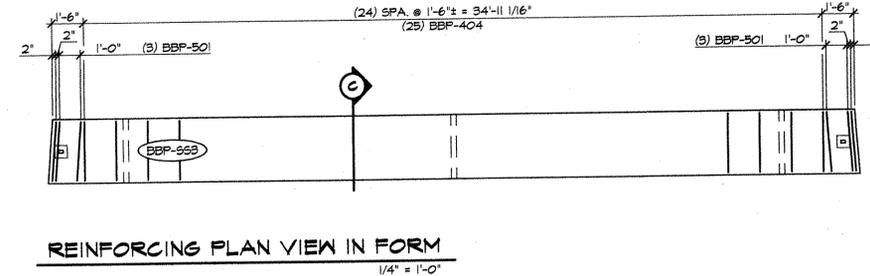
C REINFORCING SECTION
1" = 1'-0"



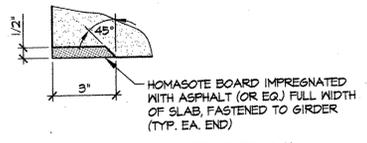
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



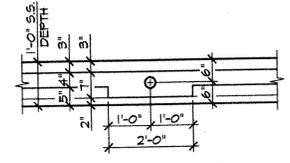
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



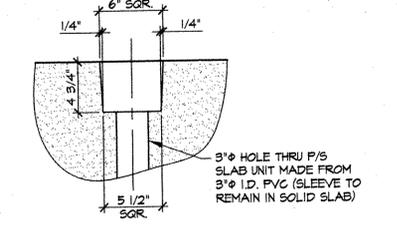
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



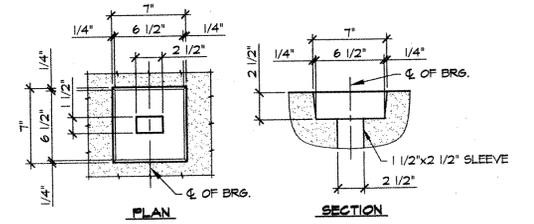
HOMASOTE DETAIL
3" = 1'-0"



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



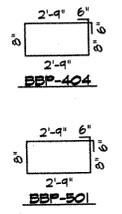
POST-TENSIONING POCKET DETAIL
1 1/2" = 1'-0"



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

DETENSIONING SCHEDULE
N.T.S.

1	2
3	4
5	6
7	8
9	10



MARK: BBP-551	QTY.: 1	WT.: 0.23 T	VOL.: 4.07 cy
MARK: BBP-552	QTY.: 1	WT.: 0.21 T	VOL.: 4.06 cy
MARK: BBP-553	QTY.: 1	WT.: 0.31 T	VOL.: 4.10 cy

PC1 = 4000 PSI
PC2 = 6000 PSI

MATERIAL LIST / SOLID SLAB					
ITEM	MARK	DESCRIPTION	QTY./SLAB		
			551	552	553
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					

APPROVAL STAMP:
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NOV 14 2003
DATE 12/3/03

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

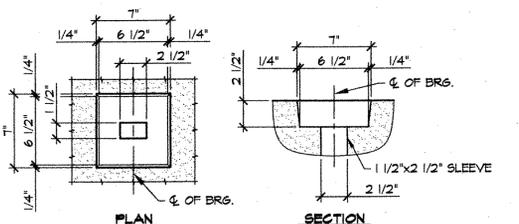
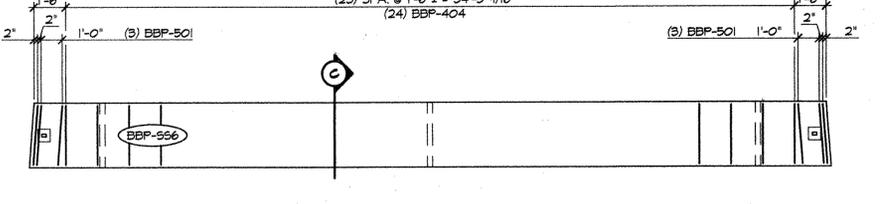
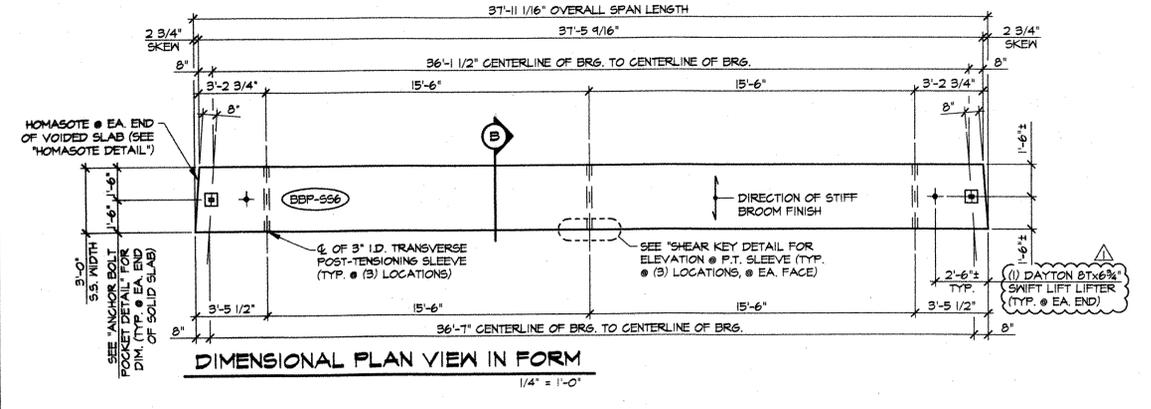
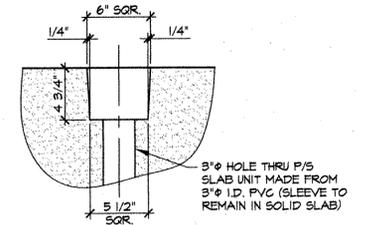
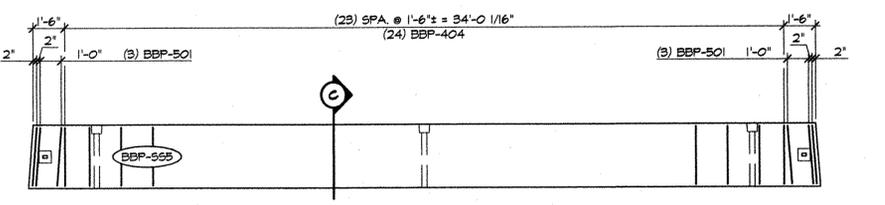
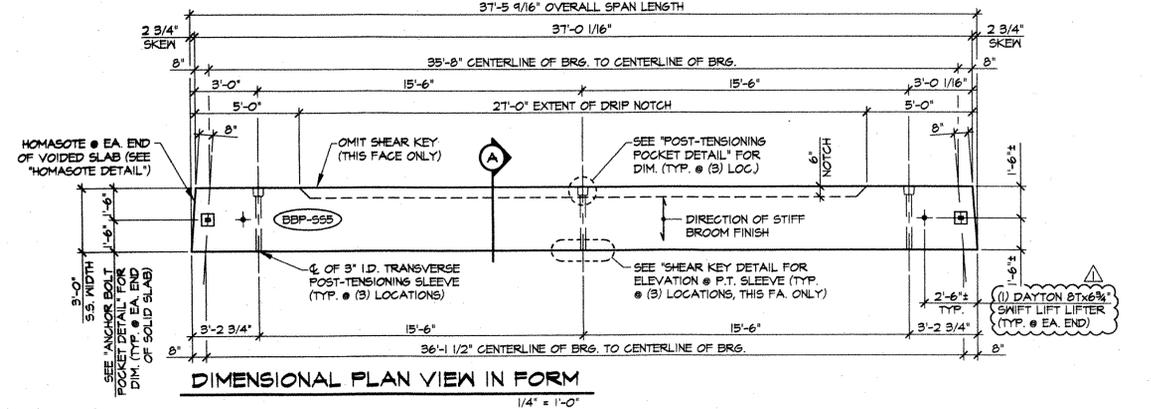
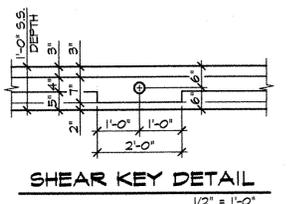
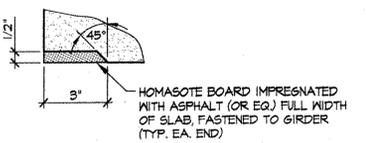
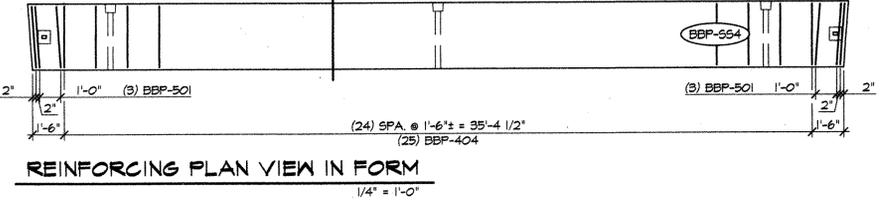
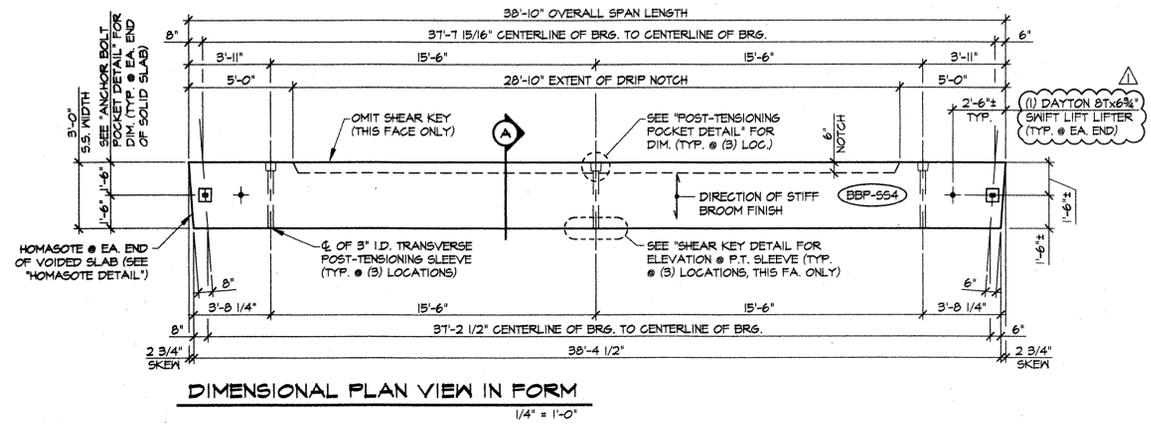
KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

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: **SS1**
100



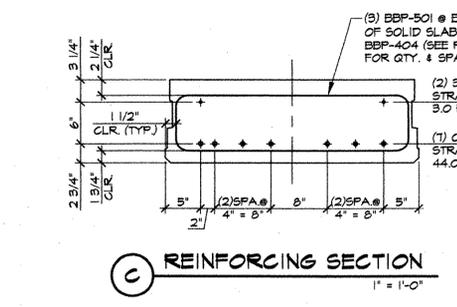
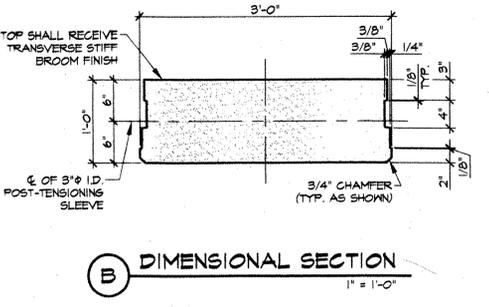
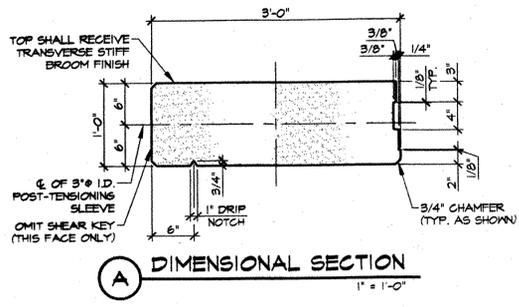
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MARK: BBP-555	QTY.: 2	WT.: 8.23 T	VOL.: 4.07 cy	(F _c = 4,000 PSI) (F _c = 6,000 PSI)
MARK: BBP-556	QTY.: 2	WT.: 8.21 T	VOL.: 4.06 cy	

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		DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
10					

① ②

③ ⑤ ⑦ ⑨ ⑧ ⑥ ④

DETENSIONING SCHEDULE
N.T.S.



APPROVAL STAMP:

RECEIVED
NOV 14 2003
DATE 12/5/03

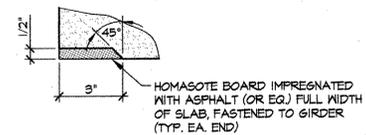
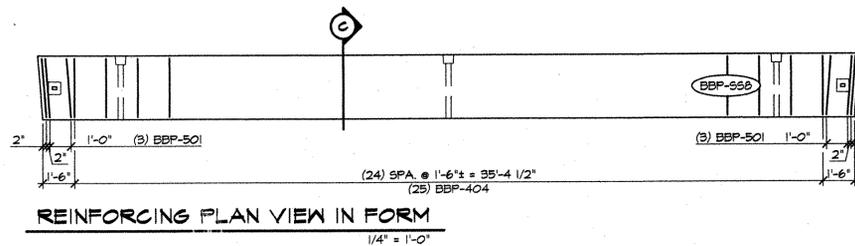
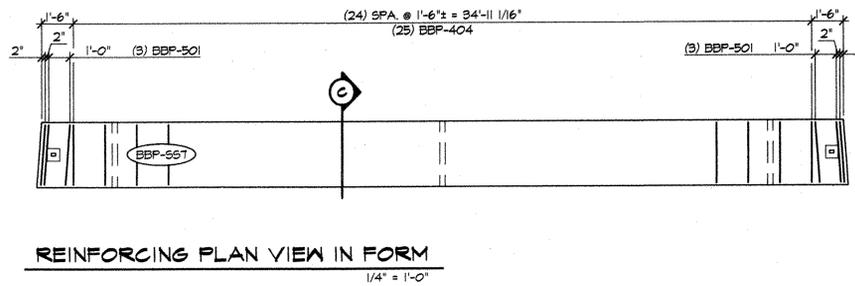
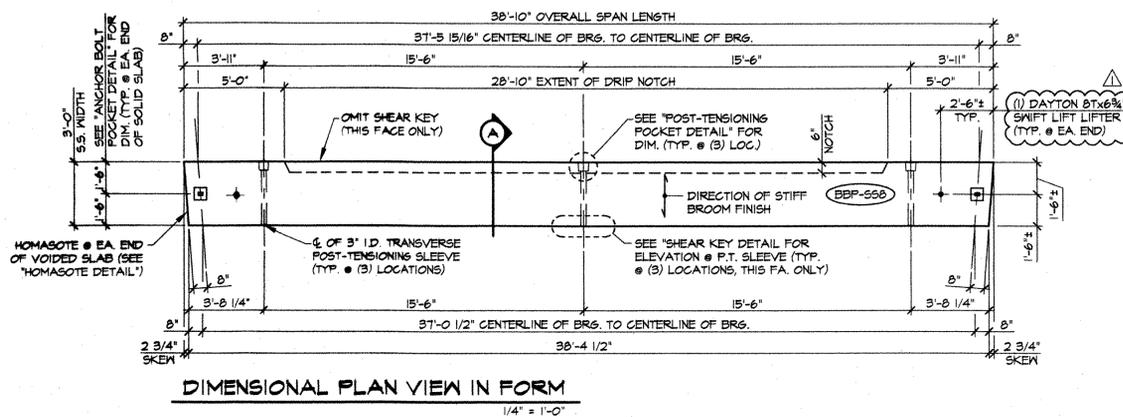
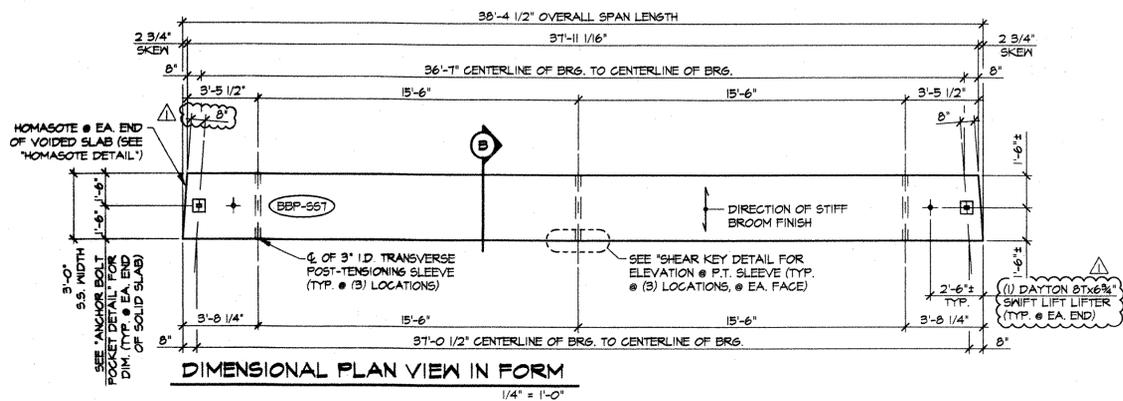
J.P. CARRARA & SONS, INC.
NOV 12 2003
ISSUED FOR PRODUCTION

J.P. CARRARA & SONS INC. KUBRICKY CONSTRUCTION CORP.
Precast & Prestress Manufacturer CONTRACTOR
2464 GAE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 GLENS FALLS, NEW YORK

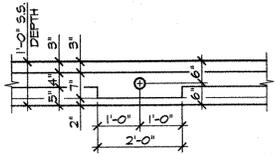
STATE OF VERMONT DATE: SEPT. 26, 2003
AGENCY OF TRANSPORTATION SCALE: NOTED

TOWN OF COLCHESTER CHKD: DFTM: B.L.
PROJECT NUMBER: STP BIKE (48) JOB NO: 23164-03

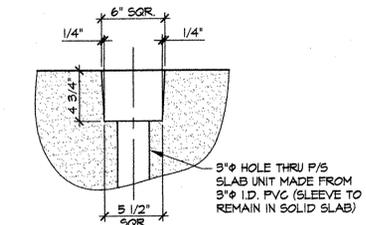
F/S SOLID SLAB DETAILS DWG. NO: **SS2**
101



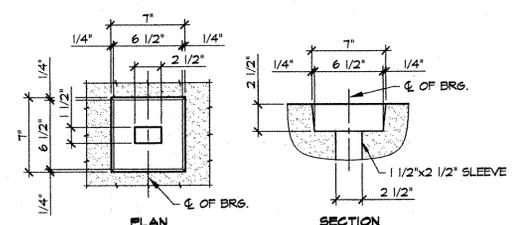
HOMASOTE DETAIL
3\"/>



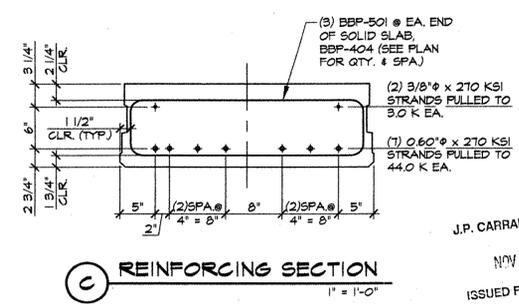
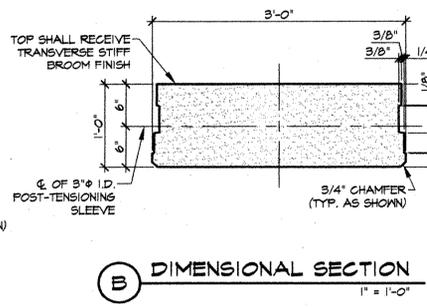
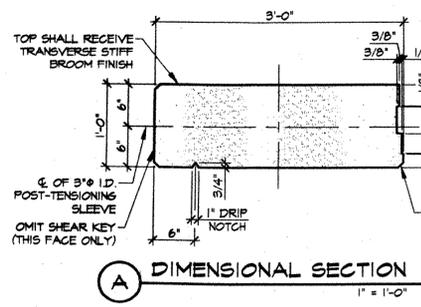
SHEAR KEY DETAIL
1/2\"/>



POST-TENSIONING POCKET DETAIL
1 1/2\"/>



ANCHOR BOLT POCKET DETAIL
1 1/2\"/>



① ②

③ ④ ⑤ ⑥ ⑦ ⑧

DETENSIONING SCHEDULE
N.T.S.

MARK: BBP-557	QTY.: 2	WT.: 8.31 T	VOL.: 4.10 cy	$f'_c = 4,000 \text{ PSI}$ $f'_c = 6,000 \text{ PSI}$
MARK: BBP-558	QTY.: 2	WT.: 8.34 T	VOL.: 4.22 cy	
MARK:	QTY.:	WT.:	VOL.:	
MATERIAL LIST / SOLID SLAB				
ITEM	MARK	DESCRIPTION	QTY./SLAB	
			557	558
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\"/>	2	2
10				

APPROVAL STAMP:

RECEIVED
 NOV 14 2003
 SUBMITTED BY: [Signature]
 APPROVED BY: [Signature]
 DATE: 12/3/03

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2644 CASE STR., MOORESBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

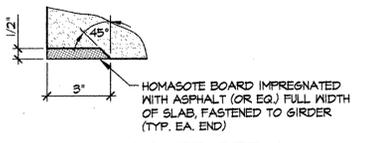
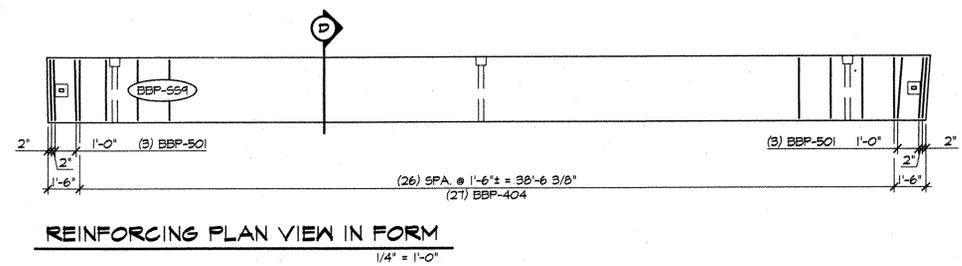
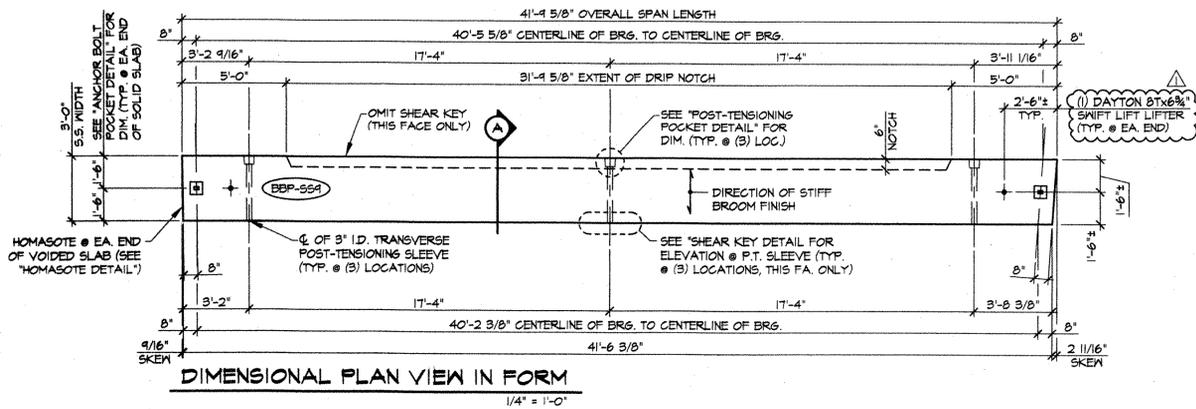
KUBRICKY CONSTRUCTION CORP.
 CONTRACTOR
 GLENS FALLS, NEW YORK

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

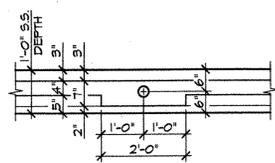
TOWN OF COLCHESTER
 PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

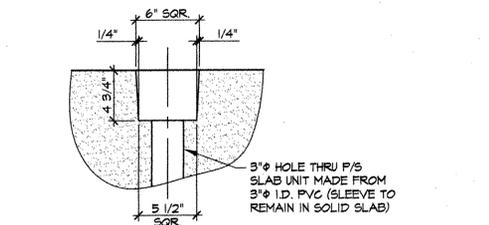
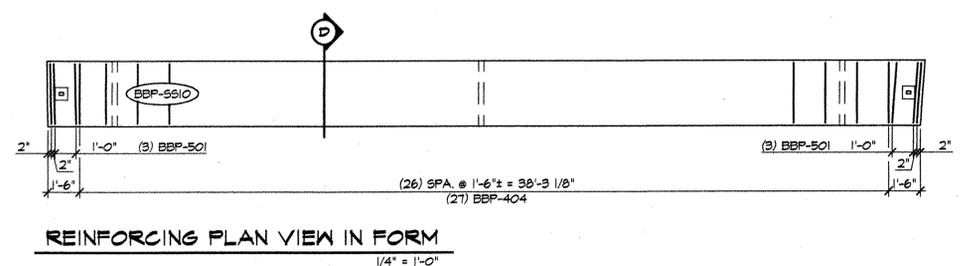
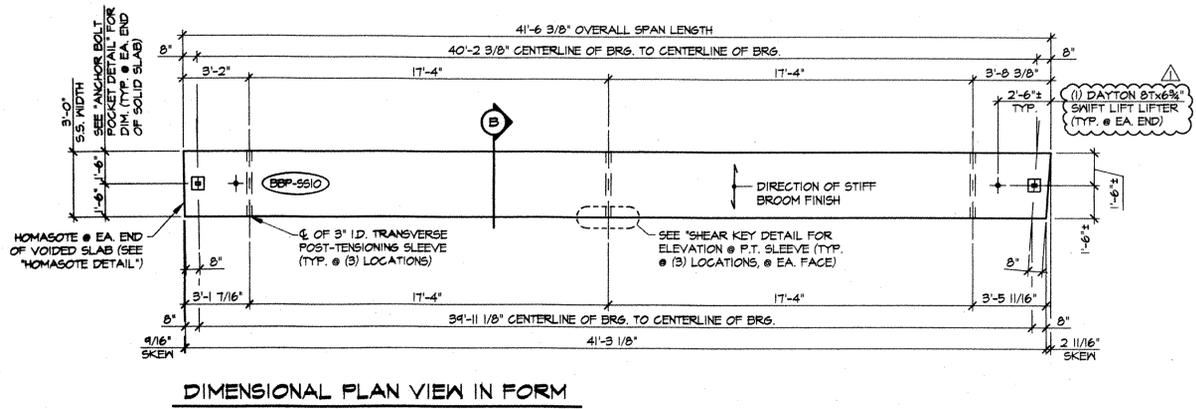
DATE: SEPT. 26, 2003
 SCALE: NOTED
 CHKD: [Signature] DFTM: B.L.
 JOB NO: 23169-03
 DWG. NO: **SS3**
 102



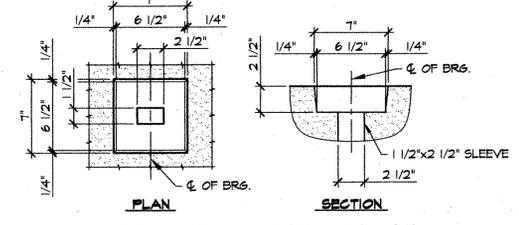
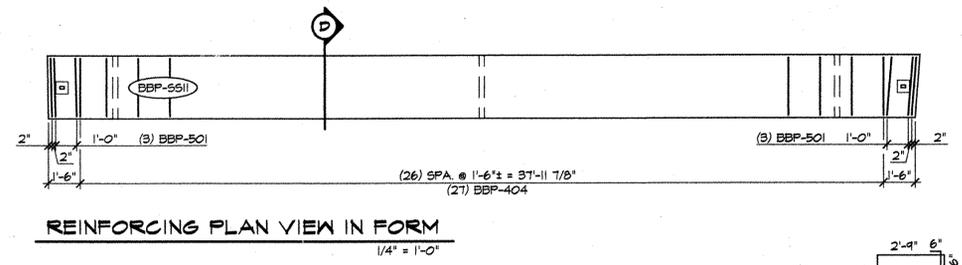
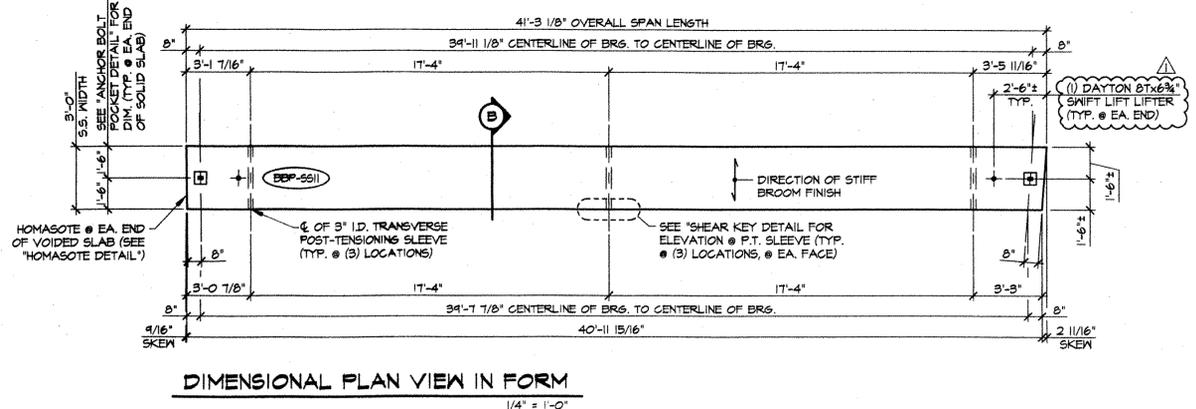
HOMASOTE DETAIL
3\"/>



SHEAR KEY DETAIL
1/2\"/>



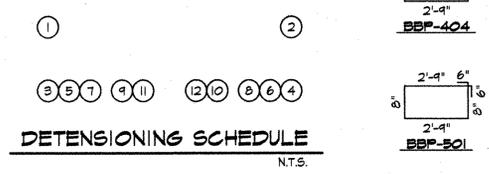
POST-TENSIONING POCKET DETAIL
1 1/2\"/>



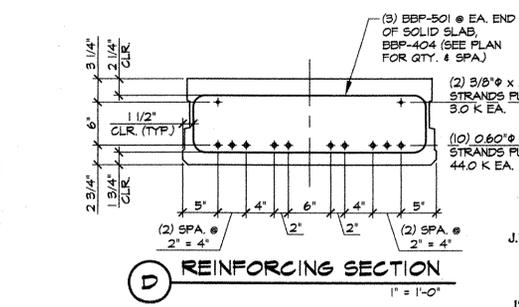
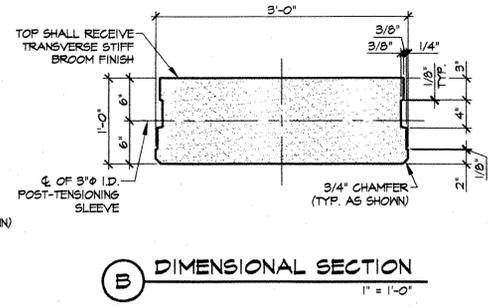
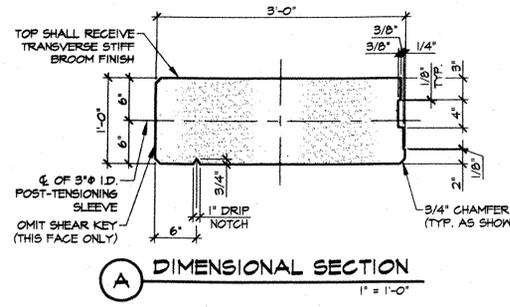
ANCHOR BOLT POCKET DETAIL
1 1/2\"/>

MARK: BBP-SSA	QTY.: 1	WT.: 9.21 T	VOL.: 4.35 cy
MARK: BBP-SS10	QTY.: 1	WT.: 9.02 T	VOL.: 4.43 cy
MARK: BBP-SS11	QTY.: 1	WT.: 8.96 T	VOL.: 4.43 cy

MATERIAL LIST / SOLID SLAB					
ITEM	MARK	DESCRIPTION	QTY./SLAB		
			SSA	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		DAYTON 8T x 6 3/4\"/>			
10					



DETENSING SCHEDULE
N.T.S.



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

APPROVAL STAMP:

RECEIVED
NOV 14 2003

12/3/03

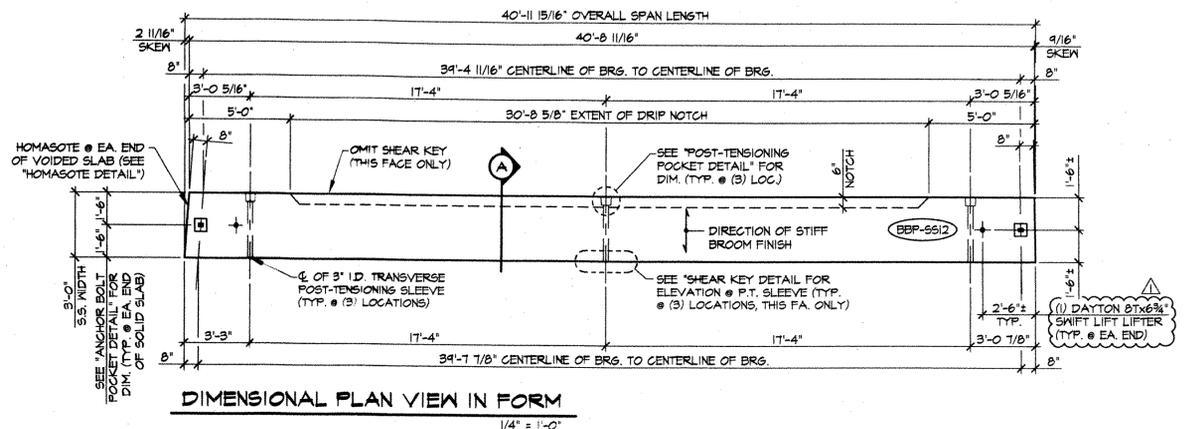
J.P. CARRARA & SONS, INC. PRECAST & PRESTRESS MANUFACTURER
2644 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010

KUBRICKY CONSTRUCTION CORP. CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT AGENCY OF TRANSPORTATION
TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

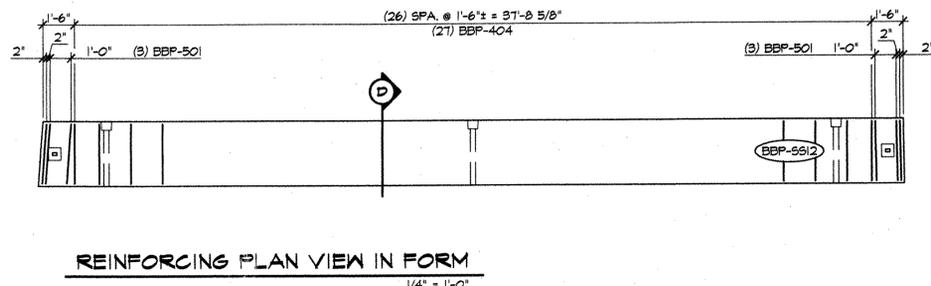
P/S SOLID SLAB DETAILS

DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS4
103



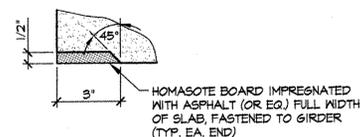
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



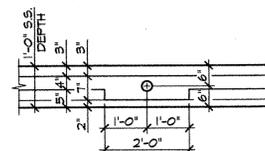
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



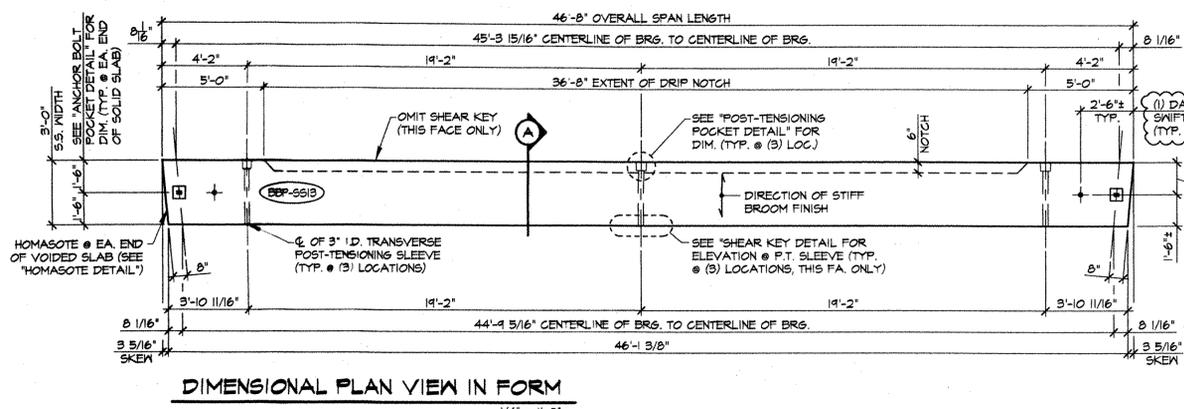
HOMASOTE DETAIL

3" = 1'-0"



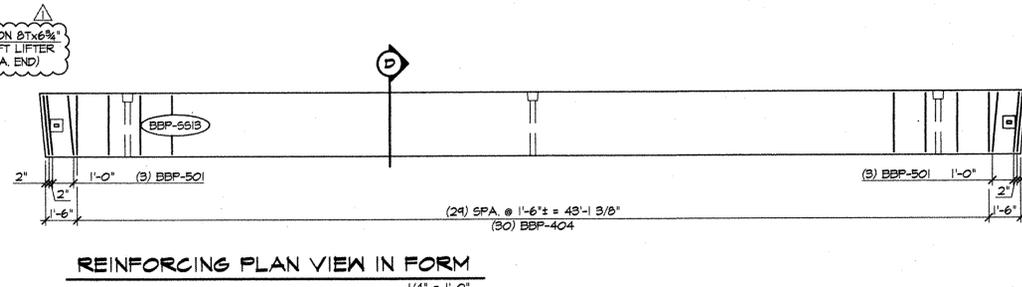
SHEAR KEY DETAIL

1/2" = 1'-0"



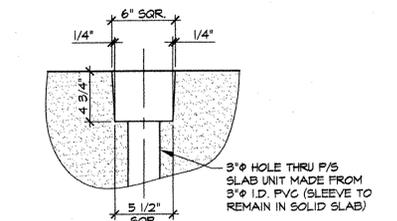
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



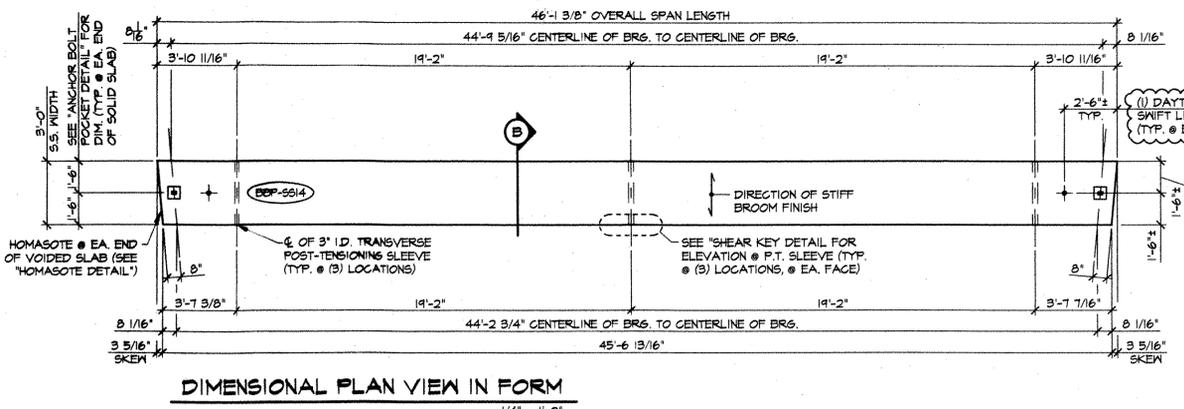
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



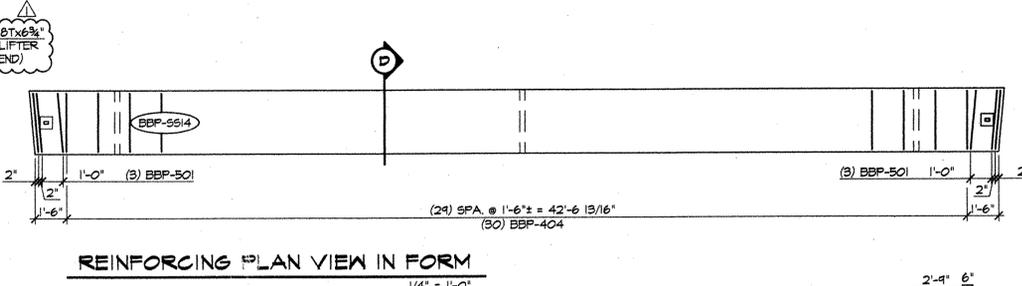
POST-TENSIONING POCKET DETAIL

1 1/2" = 1'-0"



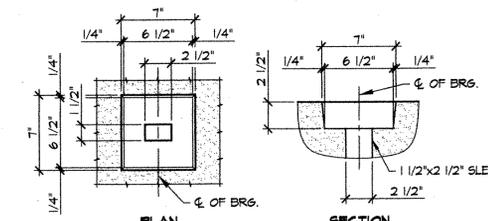
DIMENSIONAL PLAN VIEW IN FORM

1/4" = 1'-0"



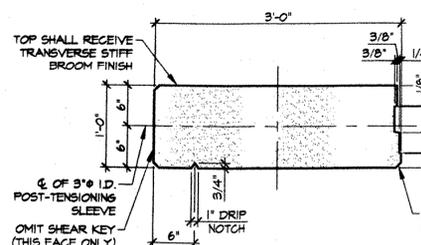
REINFORCING PLAN VIEW IN FORM

1/4" = 1'-0"



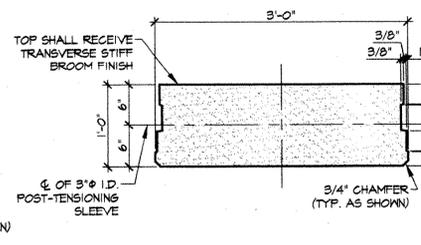
ANCHOR BOLT POCKET DETAIL

1 1/2" = 1'-0"



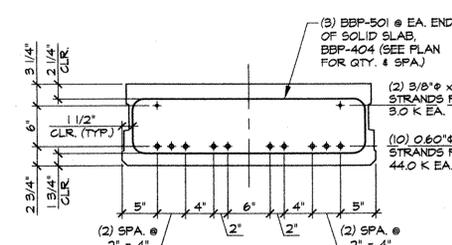
A DIMENSIONAL SECTION

1" = 1'-0"



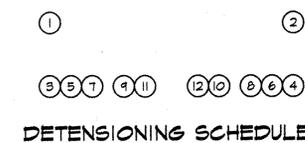
B DIMENSIONAL SECTION

1" = 1'-0"



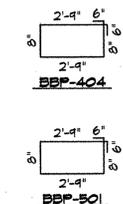
D REINFORCING SECTION

1" = 1'-0"



DETENSIONING SCHEDULE

N.T.S.



MATERIAL LIST / SOLID SLAB			
ITEM	MARK	DESCRIPTION	QTY./SLAB
1	404	#4 BENT BAR	27 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			

APPROVAL STAMP:

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DATE 12/3/03

J.P. CARRARA & SONS INC. KUBRICKY CONSTRUCTION CORP.

STATE OF VERMONT AGENCY OF TRANSPORTATION

TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

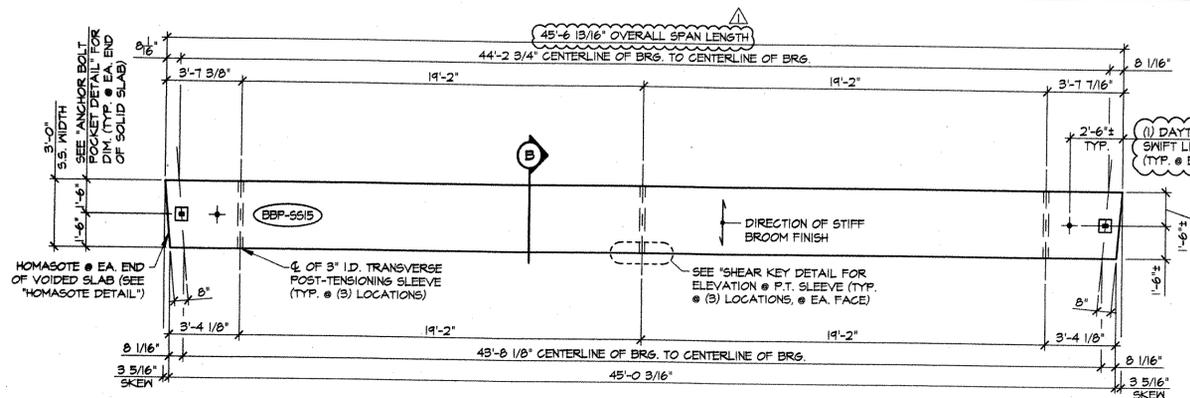
DATE: SEPT. 26, 2003

SCALE: NOTED

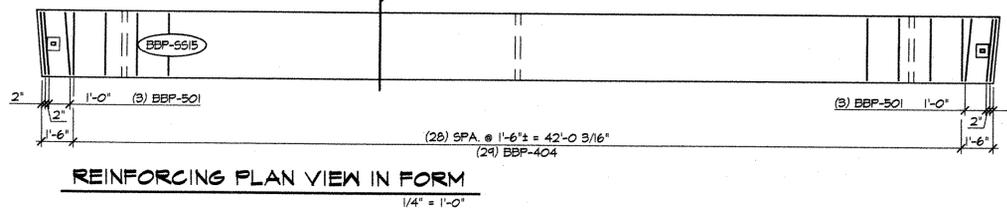
CHKD: DFTM: B.L.

JOB NO: 23169-03

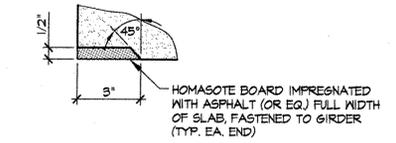
DWG. NO: S55



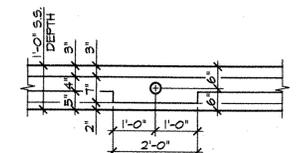
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



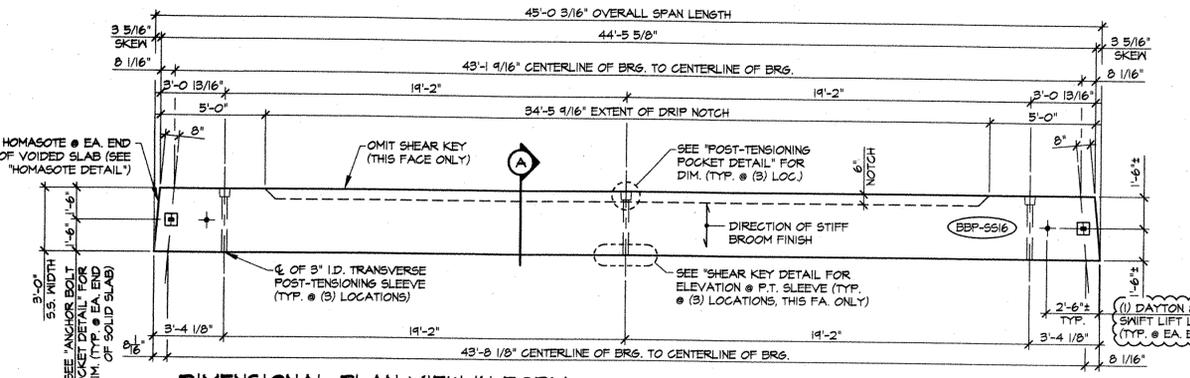
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



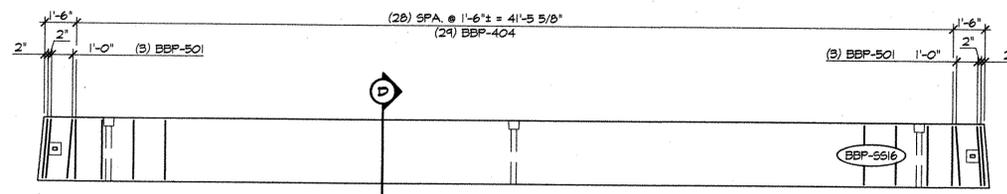
HOMASOTE DETAIL
3" = 1'-0"



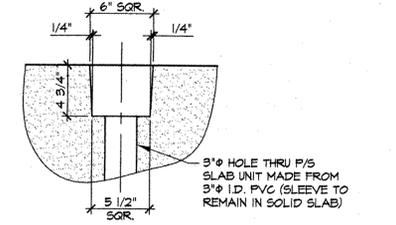
SHEAR KEY DETAIL
1/2" = 1'-0"



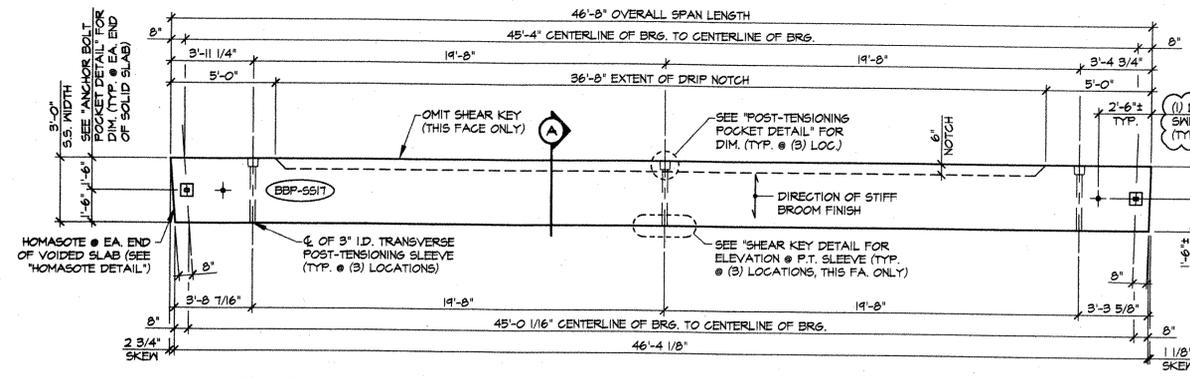
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



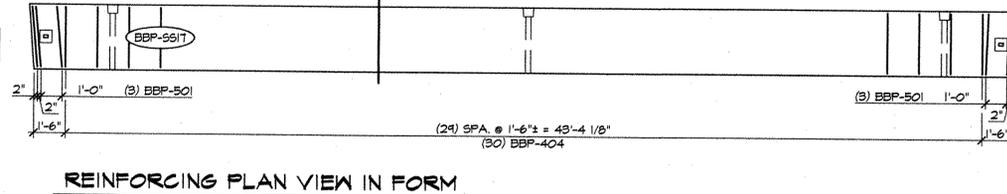
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



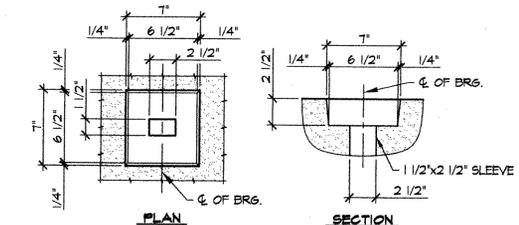
POST-TENSIONING POCKET DETAIL
1 1/2" = 1'-0"



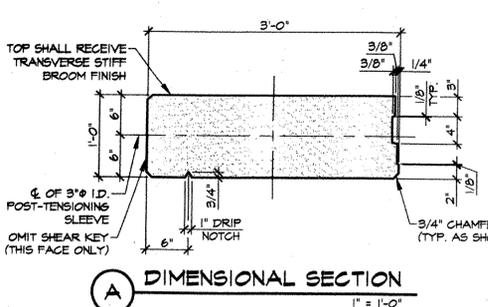
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



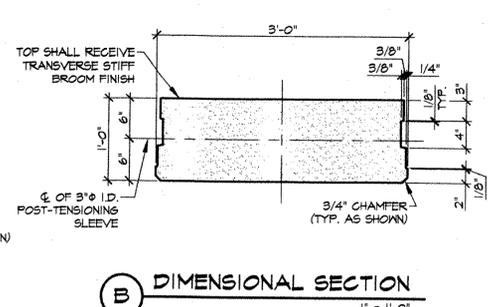
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



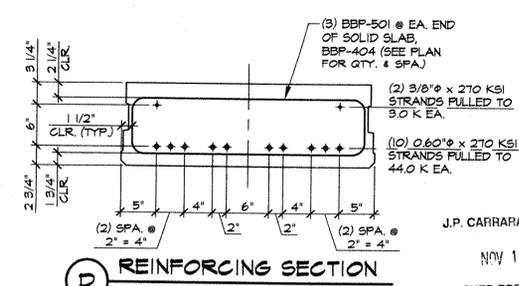
ANCHOR BOLT POCKET DETAIL
1 1/2" = 1'-0"



A DIMENSIONAL SECTION
1" = 1'-0"



B DIMENSIONAL SECTION
1" = 1'-0"

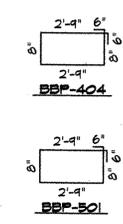


D REINFORCING SECTION
1" = 1'-0"

① ②

③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳

DETENSING 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
MARK: BBP-SS17	QTY.: 1	WT.: 10.28 T	VOL.: 5.08 cy

PC1 = 4000 PSI
PC2 = 6000 PSI

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB		
			SS15	SS16	SS17
1	404	#4 BENT BAR	24	24	30
2	501	#5 BENT BAR	6	6	6
3					
4	△	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

APPROVAL STAMP:

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NOV 14 2003

DATE 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
264 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9810

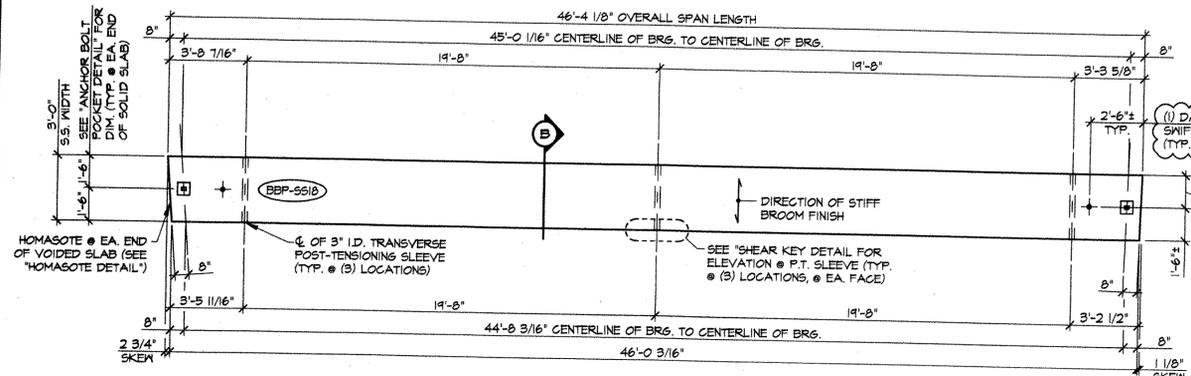
KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

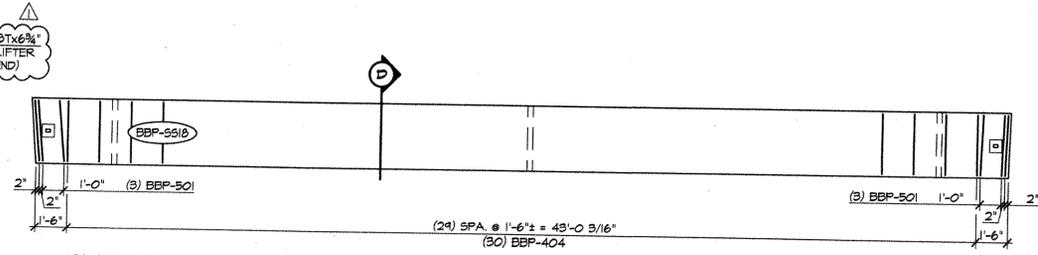
TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

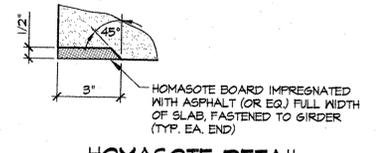
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23169-03
DWG. NO: **SS6**
105



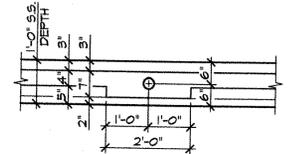
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



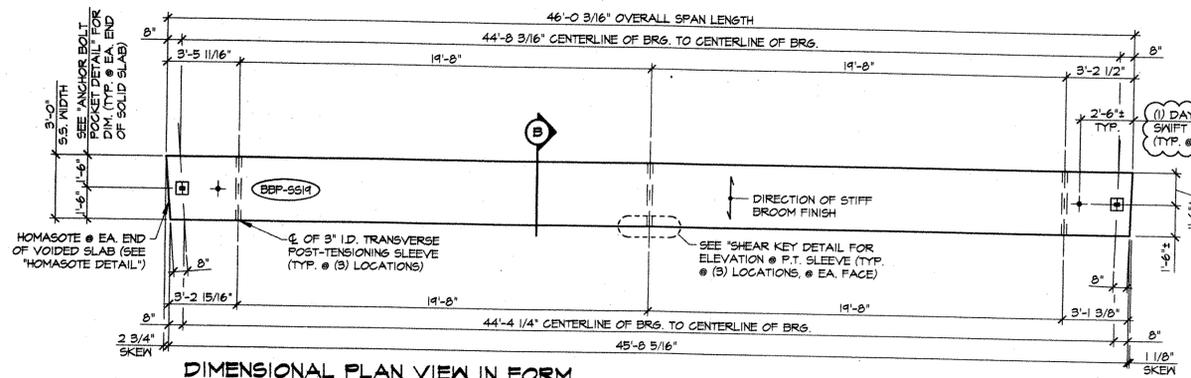
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



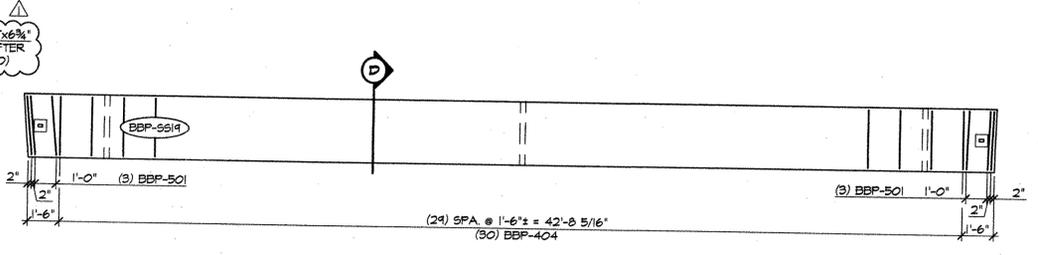
HOMASOTE DETAIL
3" = 1'-0"



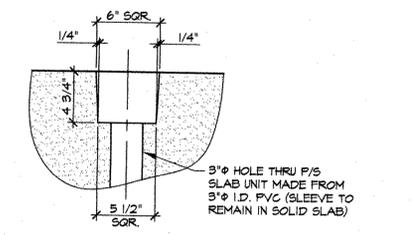
SHEAR KEY DETAIL
1/2" = 1'-0"



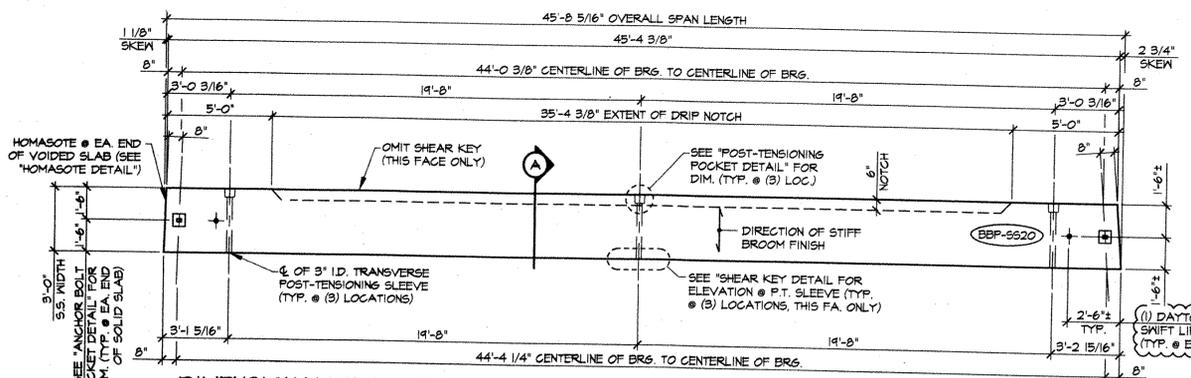
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



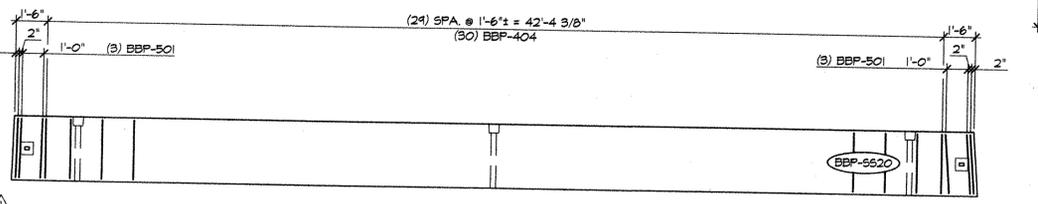
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



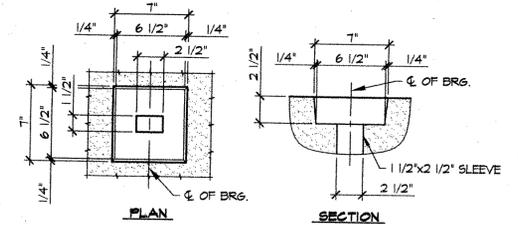
POST-TENSIONING POCKET DETAIL
1/2" = 1'-0"



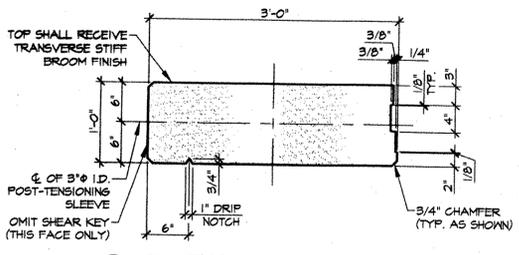
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



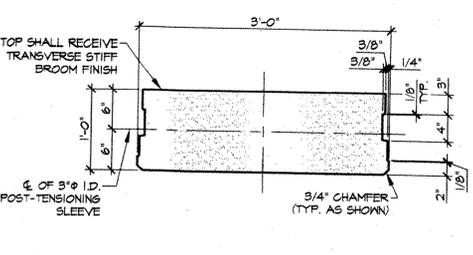
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



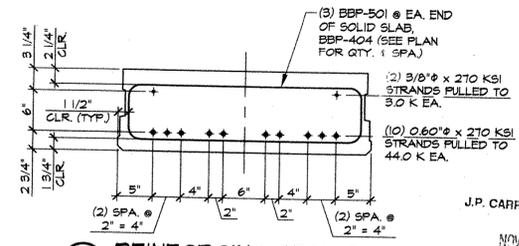
ANCHOR BOLT POCKET DETAIL
1/2" = 1'-0"



A DIMENSIONAL SECTION
1" = 1'-0"



B DIMENSIONAL SECTION
1" = 1'-0"

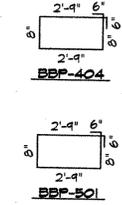


D REINFORCING SECTION
1" = 1'-0"

① ②

③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳

DETENSIONING SCHEDULE
N.T.S.



MARK: BBP-SS18	QTY.: 1	WT.: 10.06 T	VOL.: 4.97 cy	(Pci = 4000 PSI) (fc = 6000 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					

APPROVAL STAMP:

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 NOV 14 2003
 J.P. CARRARA & SONS, INC.
 NOV 12 2003
 ISSUED FOR PRODUCTION

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2844 CASE STR., MIDDLEBURY, VERMONT 05751 Phone: (802)358-6361 Fax: (802)358-9910

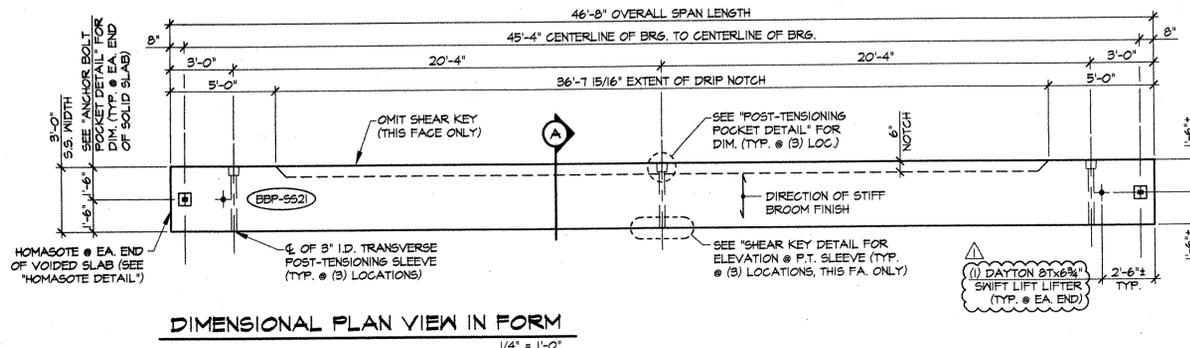
KUBRICKY CONSTRUCTION CORP.
 CONTRACTOR
 GLENS FALLS, NEW YORK

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

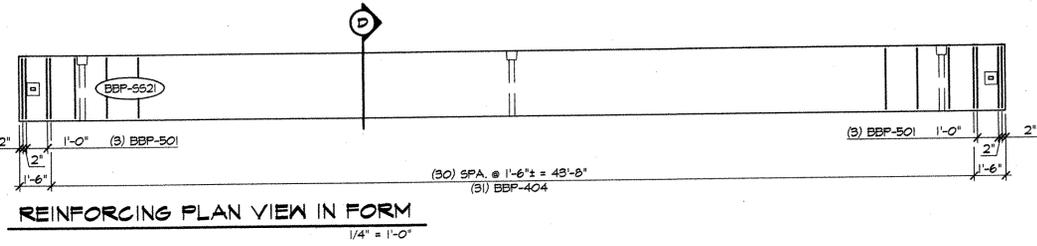
TOWN OF COLCHESTER
 PROJECT NUMBER: STP BIKE (48)

F/S SOLID SLAB DETAILS

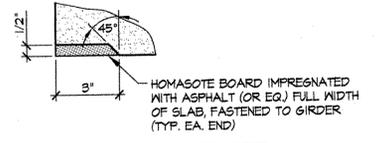
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 SCALE: NOTED
 CHKD: DFTM: B.L.
 JOB NO: 23169-03
 DWG. NO: **SS7**
 106



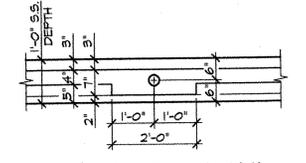
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



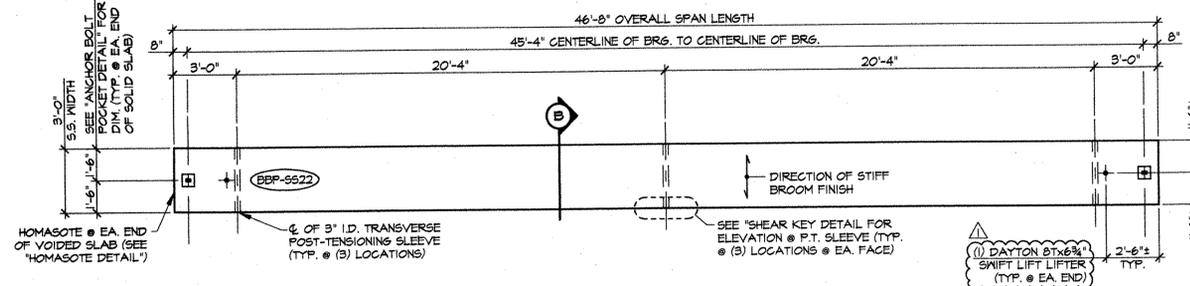
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



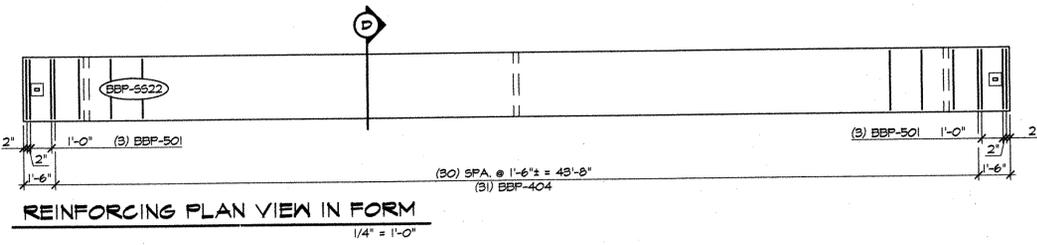
HOMASOTE DETAIL
3" = 1'-0"



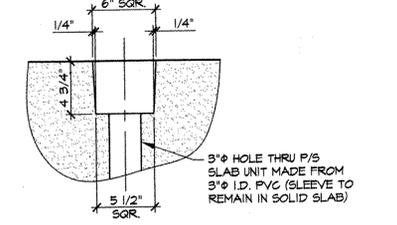
SHEAR KEY DETAIL
1/2" = 1'-0"



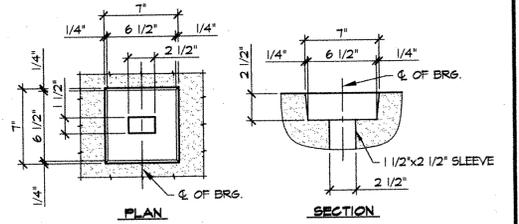
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



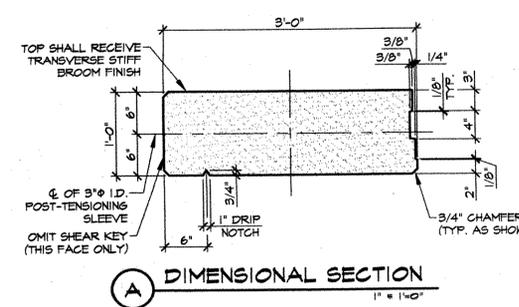
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



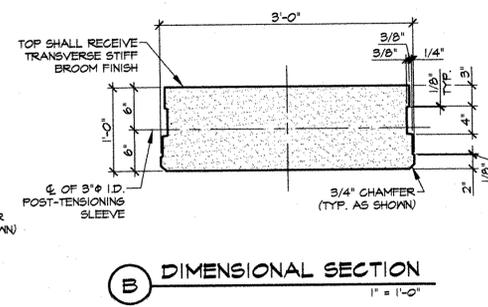
POST-TENSIONING POCKET DETAIL
1 1/2" = 1'-0"



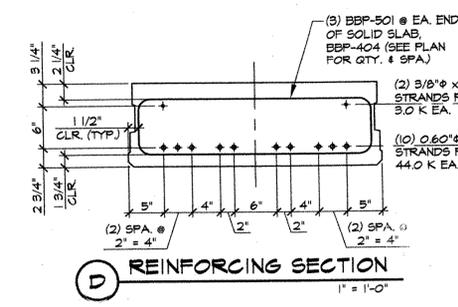
ANCHOR BOLT POCKET DETAIL
1 1/2" = 1'-0"



A DIMENSIONAL SECTION
1" = 1'-0"



B DIMENSIONAL SECTION
1" = 1'-0"

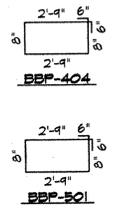


D REINFORCING SECTION
1" = 1'-0"

① ②

③ ⑤ ⑦ ⑨ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺

DETENSIONING SCHEDULE
N.T.S.



MARK: BBP-501	QTY.: 50	WT.: 10.32 T	VOL.: 5.10 cy	(1) = 4000 PSI (2) = 6000 PSI
MARK: BBP-502	QTY.: 50	WT.: 10.17 T	VOL.: 5.02 cy	
MARK:	QTY.:	WT.:	VOL.:	
MATERIAL LIST / SOLID SLAB				
ITEM	MARK	DESCRIPTION	QTY./SLAB	
			501	502
1	404	#4 BENT BAR	31	31
2	501	#5 BENT BAR	6	6
3				
4		DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2
5				

APPROVAL STAMP:

RECEIVED
 CK'D BY: [Signature] CK'D BY: [Signature]
 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

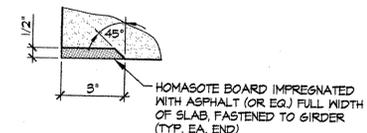
KUBRICKY CONSTRUCTION CORP. CONTRACTOR
 GLENS FALLS, NEW YORK

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

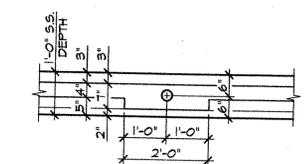
TOWN OF COLCHESTER
 PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

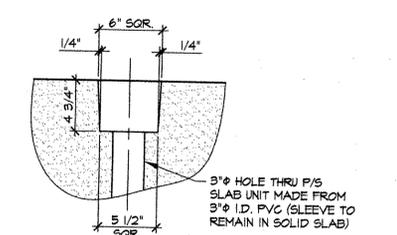
DATE: SEPT. 26, 2003
 SCALE: NOTED
 CHKD: [] DFTM: B.L.
 JOB NO: 23169-03
 DWG. NO: 558
 107



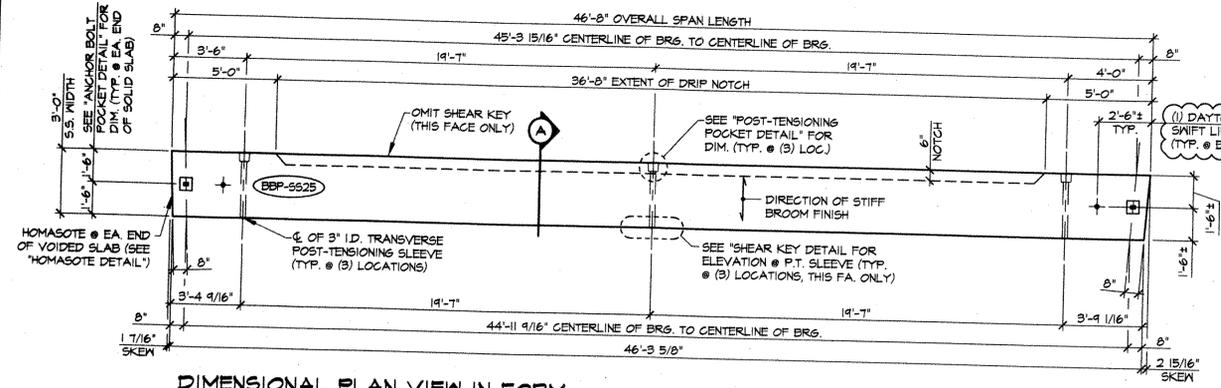
HOMASOTE DETAIL
3" = 1'-0"



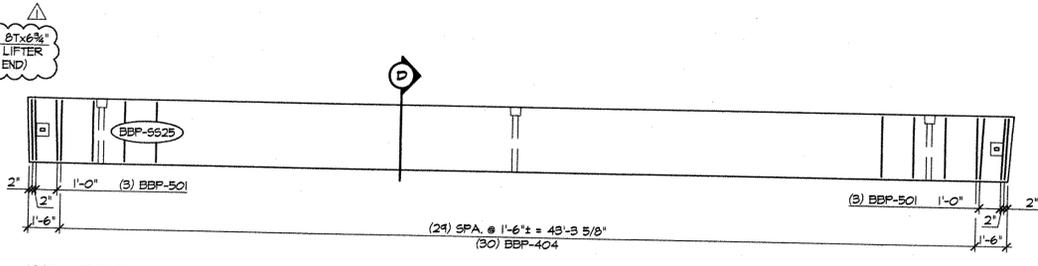
SHEAR KEY DETAIL
1/2" = 1'-0"



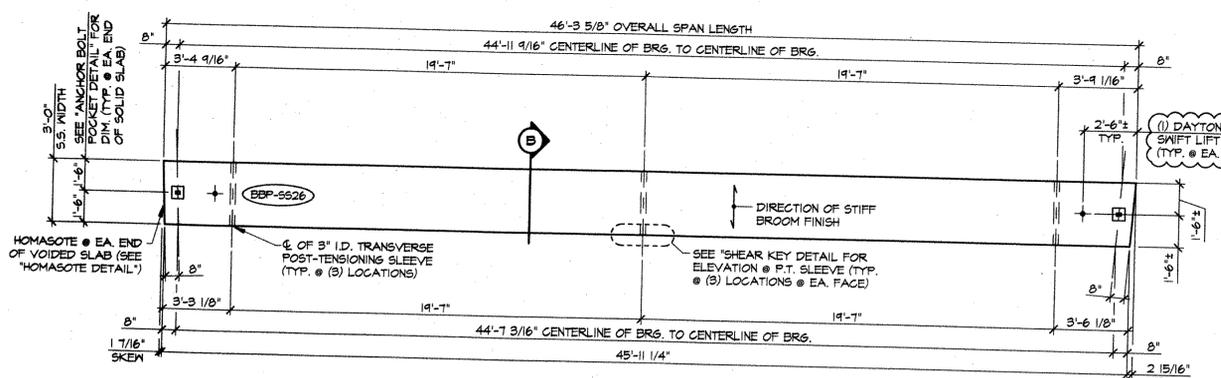
POST-TENSIONING POCKET DETAIL
1/2" = 1'-0"



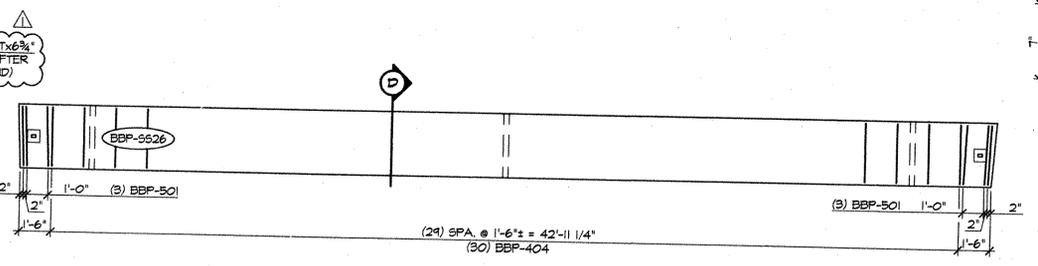
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



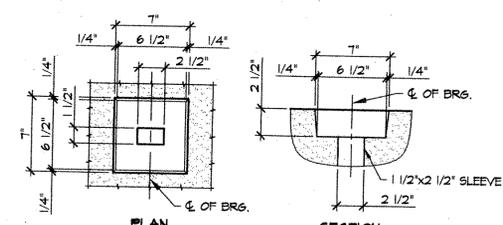
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



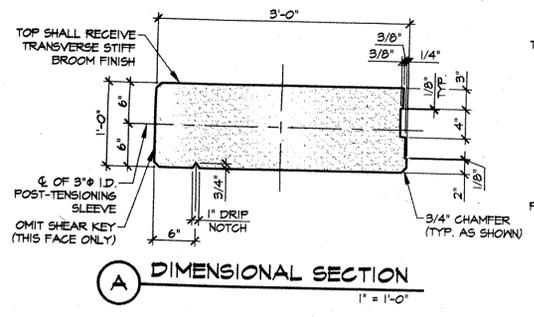
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



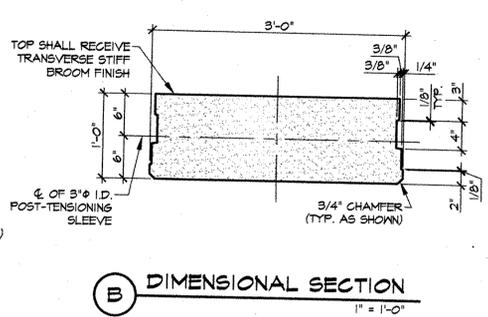
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



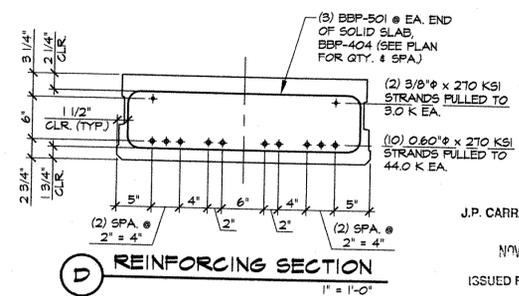
ANCHOR BOLT POCKET DETAIL
1/2" = 1'-0"



A DIMENSIONAL SECTION
1" = 1'-0"



B DIMENSIONAL SECTION
1" = 1'-0"

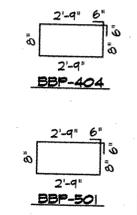


D REINFORCING SECTION
1" = 1'-0"

① ②

③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳

DETENSIONING SCHEDULE
N.T.S.



MARK:	QTY.:	WT.:	VOL.:	
MARK: BBP-5525	QTY.: 1	WT.: 10.20 T	VOL.: 5.08 cy	(Pci = 4000 PSI) (f'c = 6000 PSI)
MARK: BBP-5526	QTY.: 1	WT.: 10.21 T	VOL.: 5.04 cy	
MATERIAL LIST / SOLID SLAB				
ITEM	MARK	DESCRIPTION	QTY./SLAB	
1	404	#4 BENT BAR	5525	5526
2	501	#5 BENT BAR	30	30
3			6	6
4	①	DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2
5				

APPROVAL STAMP:

RECEIVED
NOV 14 2003

RESUBMIT: _____ APPROVED: _____
BY: _____ DATE: 12/3/03

J.P. CARRARA & SONS INC. PRECAST & PRESTRESS MANUFACTURER
2646 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6351 Fax: (802)388-9010

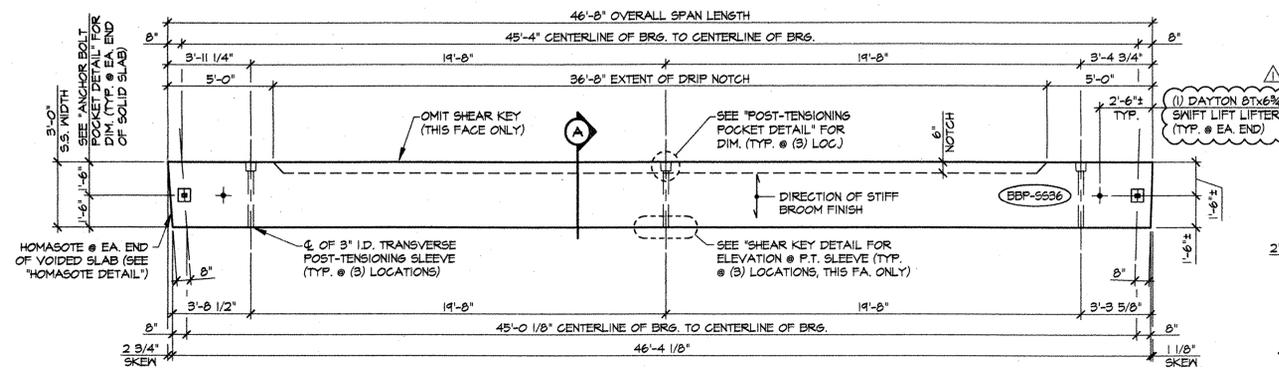
KUBRICKY CONSTRUCTION CORP. CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT AGENCY OF TRANSPORTATION
TOWN OF COLCHESTER PROJECT NUMBER: STP BIKE (48)

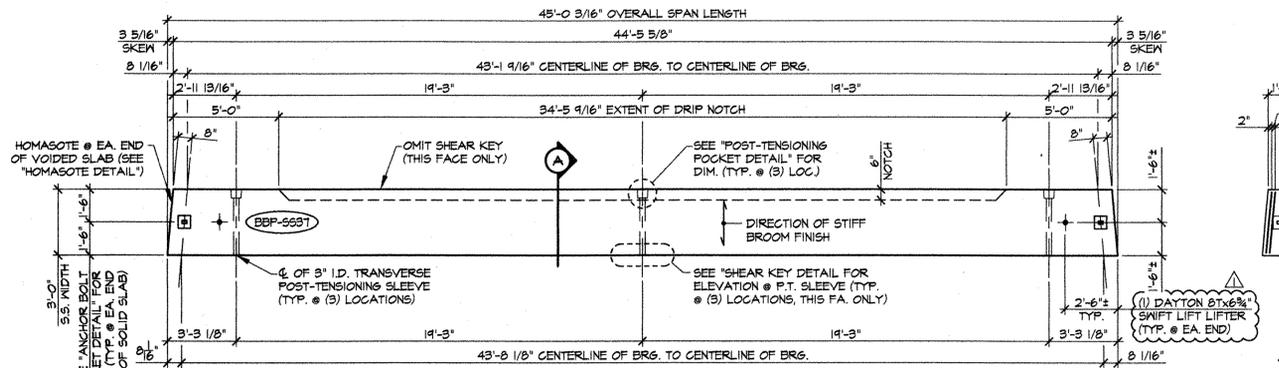
P/S SOLID SLAB DETAILS

DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: _____ DFTM: B.L.
JOB NO: 23169-03
DWG. NO: 559
108

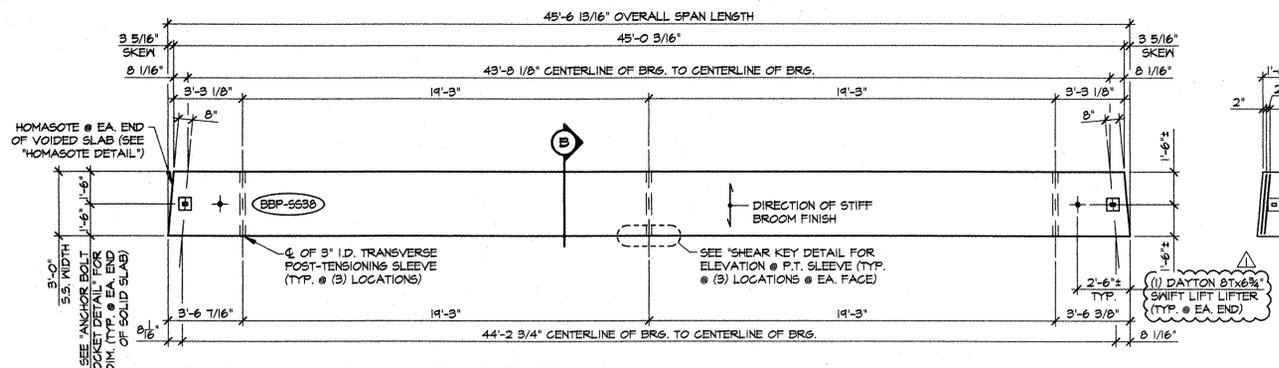
J.P. CARRARA & SONS, INC.
NOV 12 2003
ISSUED FOR PRODUCTION



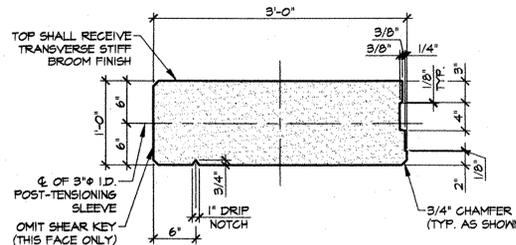
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



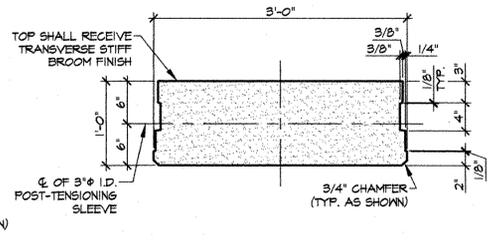
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



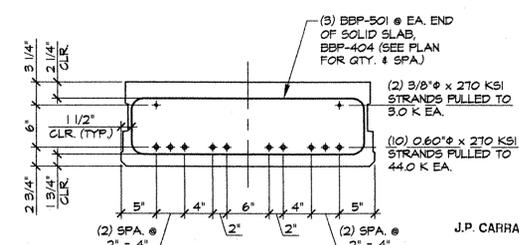
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



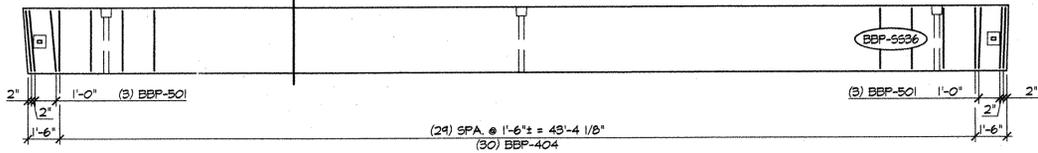
A DIMENSIONAL SECTION
1" = 1'-0"



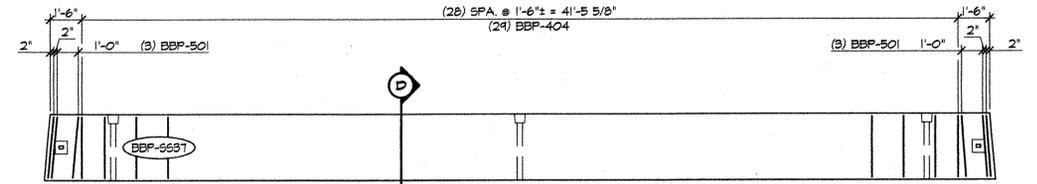
B DIMENSIONAL SECTION
1" = 1'-0"



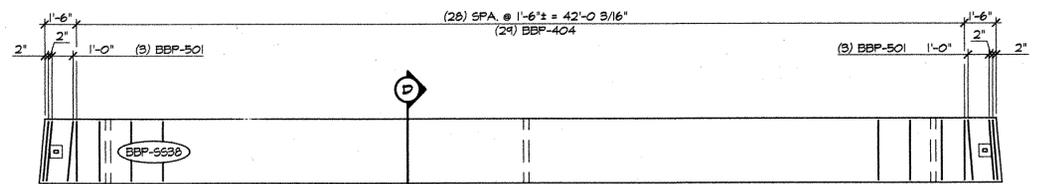
D REINFORCING SECTION
1" = 1'-0"



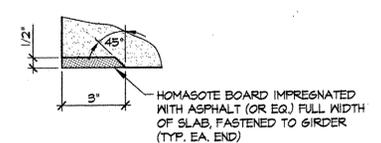
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



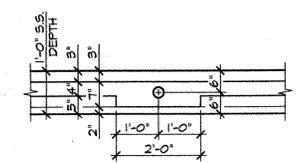
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



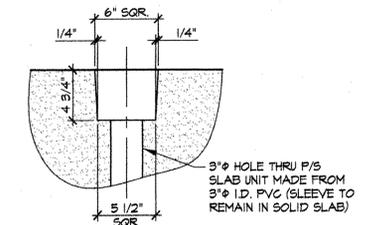
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



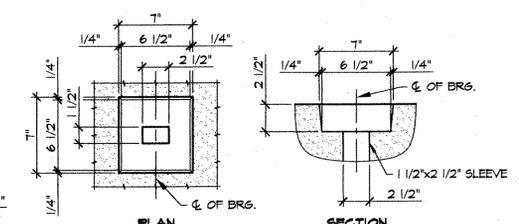
HOMASOTE DETAIL
3" = 1'-0"



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



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

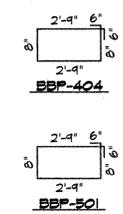


ANCHOR BOLT POCKET DETAIL
1 1/2" = 1'-0"

① ②

③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳

DETENSIONING SCHEDULE
N.T.S.



MARK: BBP-5536	QTY.: 1	WT.: 10.28 T	VOL.: 5.08 cy	$f_c = 4,000 \text{ PSI}$ $f_s = 6,000 \text{ PSI}$
MARK: BBP-5537	QTY.: 1	WT.: 9.90 T	VOL.: 4.89 cy	
MARK: BBP-5538	QTY.: 1	WT.: 9.87 T	VOL.: 4.87 cy	

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB		
			5536	5537	5538
1	404	#4 BENT BAR	30	24	24
2	501	#5 BENT BAR	6	6	6
4		DAYTON 8T x 6 3/4" SWIFT LIFT LIFTER	2	2	2
5					

APPROVAL STAMP:

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 NOV 14 2003
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J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 264 CREE STR., WOODVILLE, VERMONT 05733 Phone: (802)388-6361 Fax: (802)388-9010

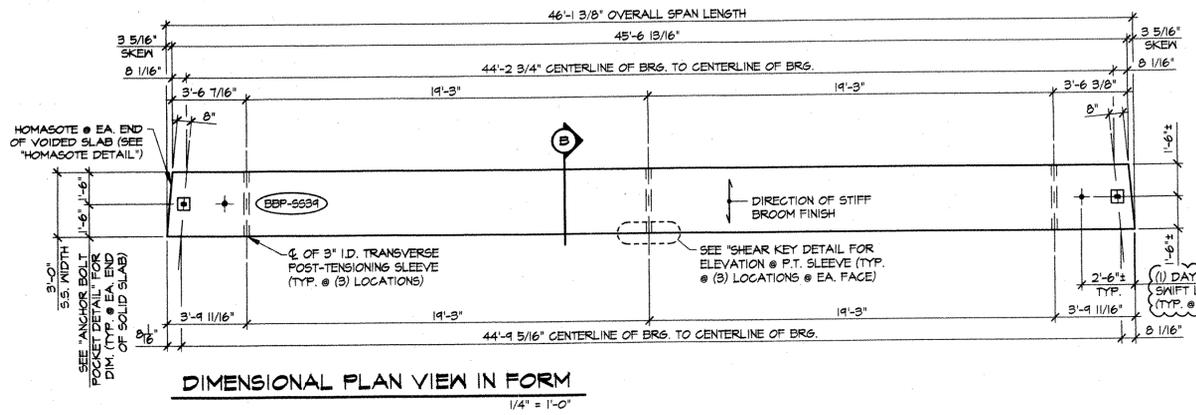
KUBRICKY CONSTRUCTION CORP.
 CONTRACTOR
 GLENS FALLS, NEW YORK

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

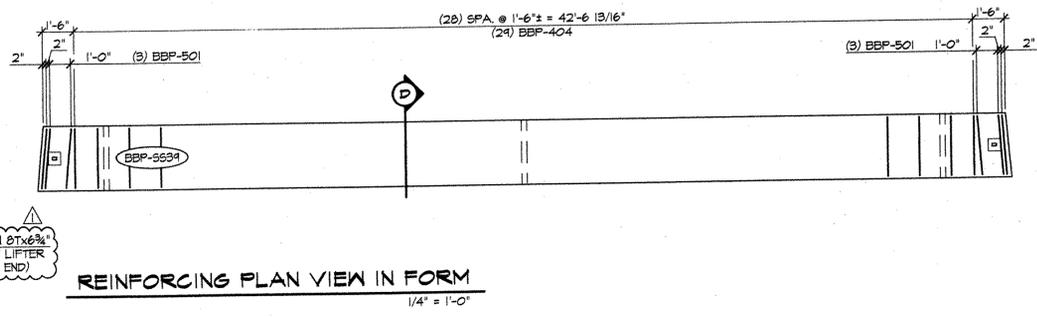
TOWN OF COLCHESTER
 PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

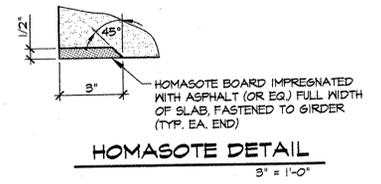
DATE: SEPT. 26, 2003
 SCALE: NOTED
 CHKD: DFTM: B.L.
 JOB NO: 23169-03
 DWG. NO: **SS13**
 112



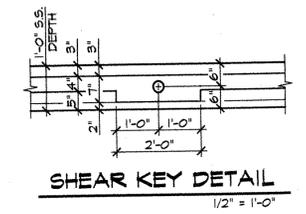
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



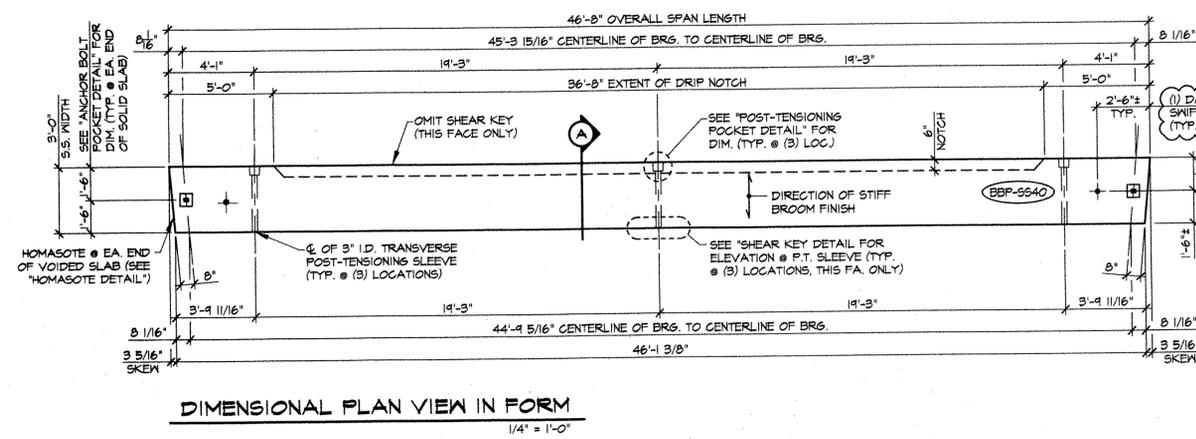
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



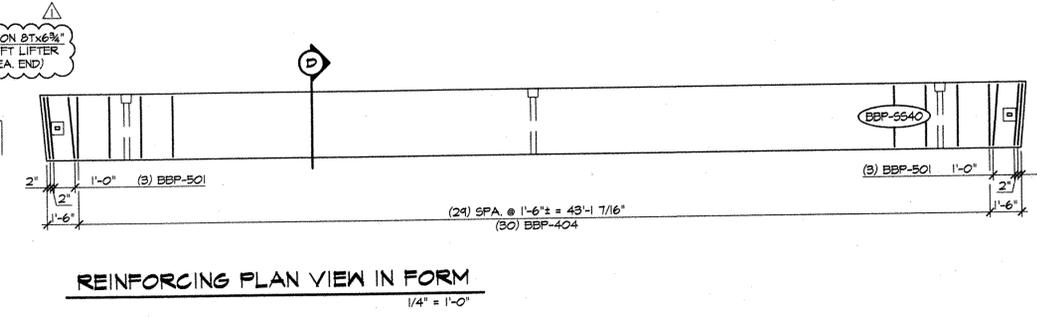
HOMASOTE DETAIL
3" = 1'-0"



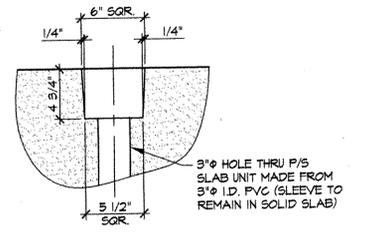
SHEAR KEY DETAIL
1/2" = 1'-0"



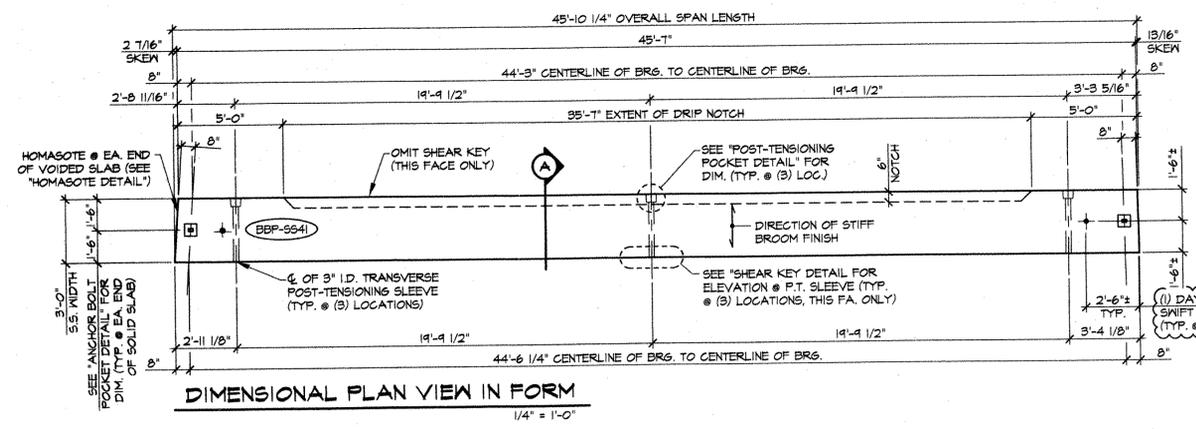
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



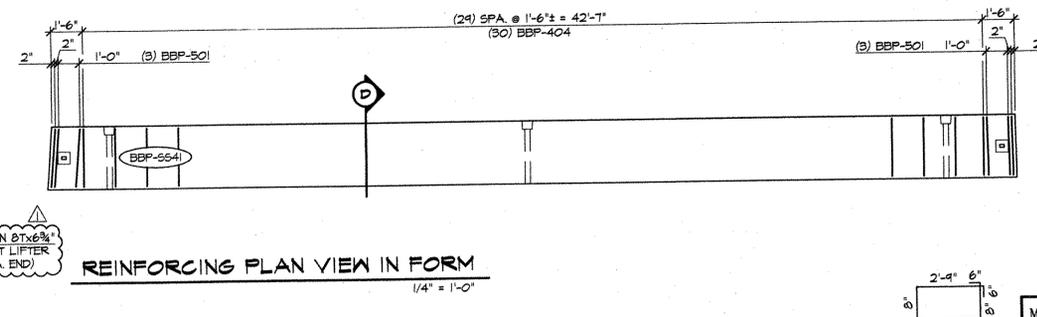
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



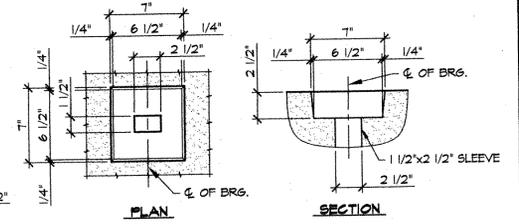
POST-TENSIONING POCKET DETAIL
1 1/2" = 1'-0"



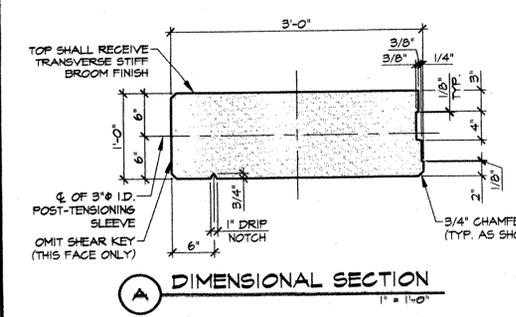
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



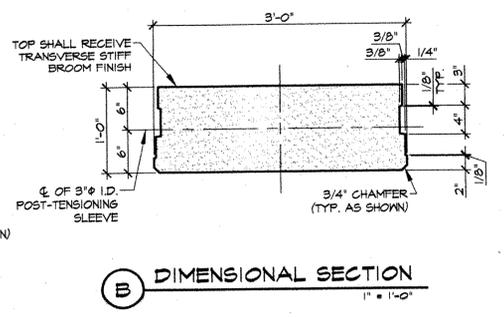
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



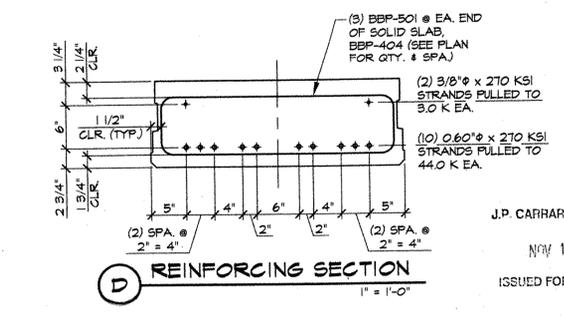
ANCHOR BOLT POCKET DETAIL
1 1/2" = 1'-0"



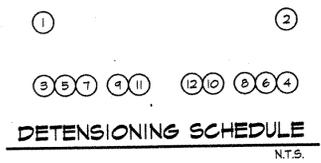
A DIMENSIONAL SECTION
1" = 1'-0"



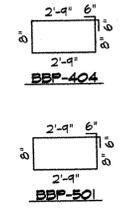
B DIMENSIONAL SECTION
1" = 1'-0"



D REINFORCING SECTION
1" = 1'-0"



DETENSIONING SCHEDULE
N.T.S.



MARK: BBP-5534	QTY.: 1	WT.: 4.99 T	VOL.: 4.93 cy	(F _{cl} = 4,000 PSI) (F _c = 6,000 PSI)	
MARK: BBP-5540	QTY.: 1	WT.: 10.26 T	VOL.: 5.07 cy		
MARK: BBP-5541	QTY.: 1	WT.: 10.11 T	VOL.: 4.99 cy		
MATERIAL LIST / SOLID SLAB					
ITEM	MARK	DESCRIPTION	QTY./SLAB		
			5534	5540	5541
1	404	#4 BENT BAR	24	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					

APPROVAL STAMP:

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

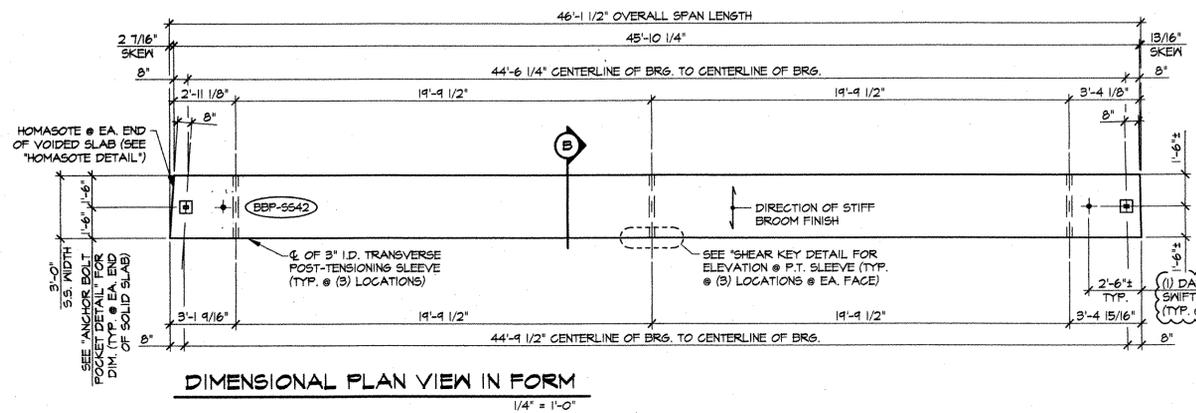
J.P. CARRARA & SONS INC. KUBRICKY CONSTRUCTION CORP.
 Precast & Prestress Manufacturer CONTRACTOR
 2464 CASE ST., MOORESBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010 GLENS FALLS, NEW YORK

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

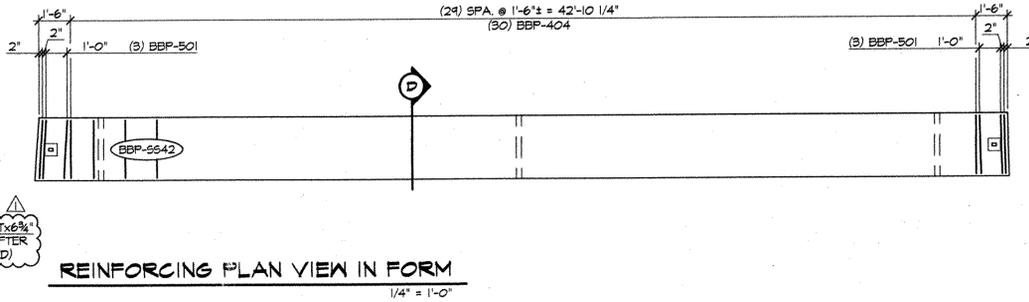
TOWN OF COLCHESTER
 PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

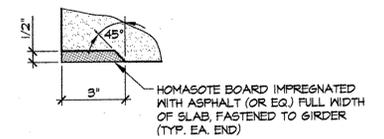
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 CHKD: DFTM: E.L.
 JOB NO: 23169-03
 DWG. NO: 5514
 113



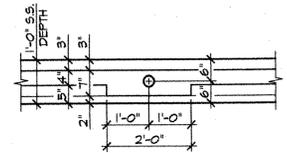
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



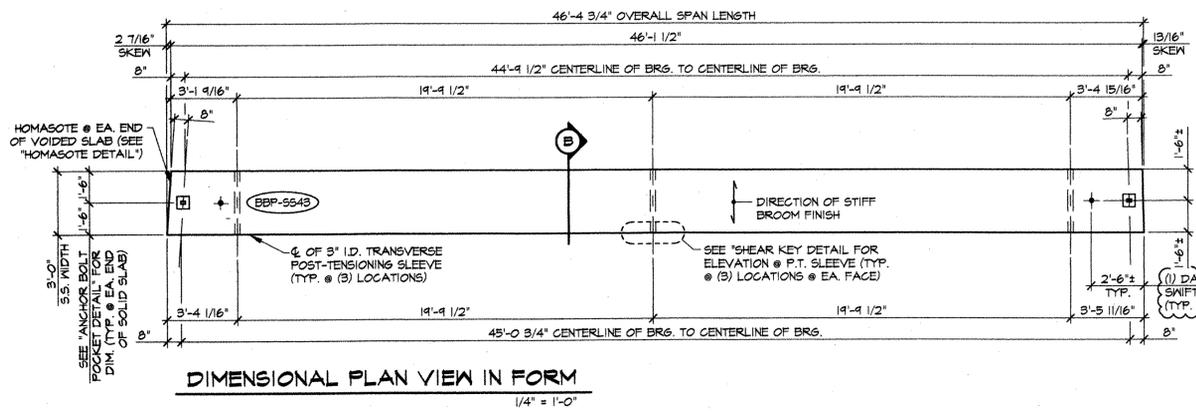
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



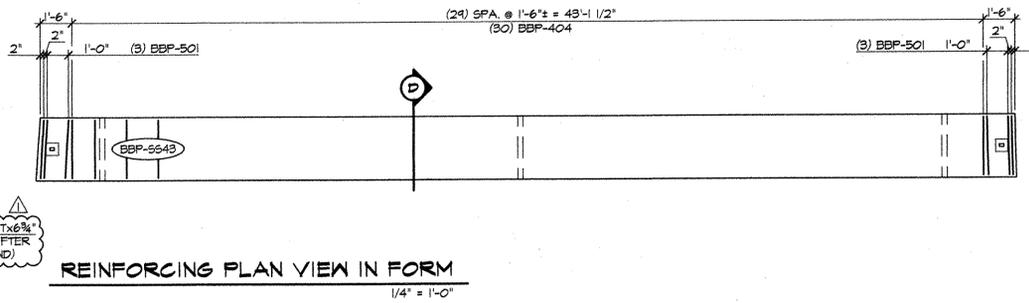
HOMASOTE DETAIL
3" = 1'-0"



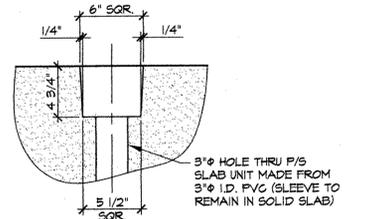
SHEAR KEY DETAIL
1/2" = 1'-0"



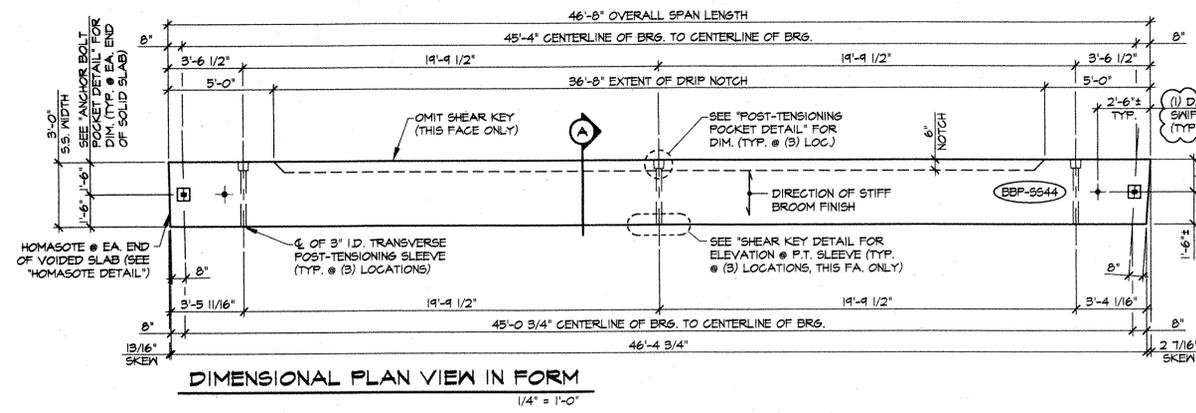
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



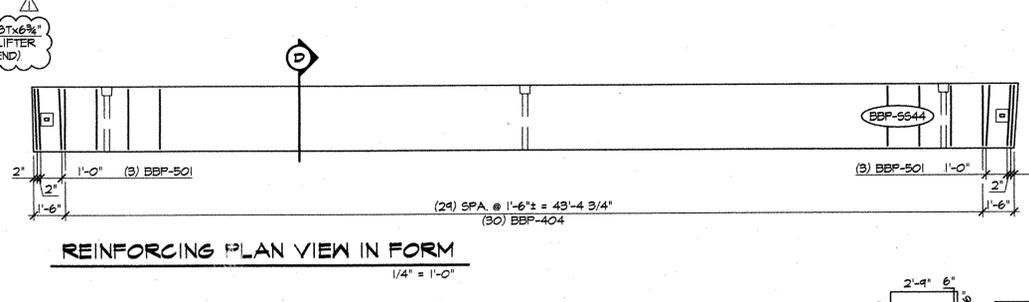
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



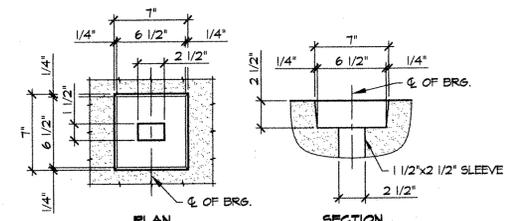
POST-TENSIONING POCKET DETAIL
1/2" = 1'-0"



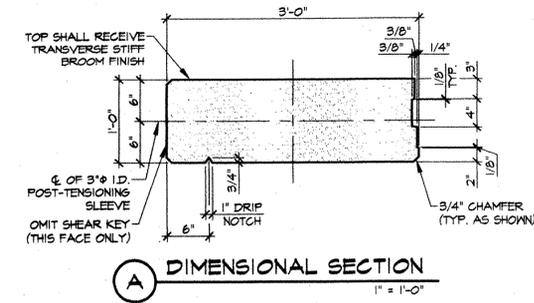
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



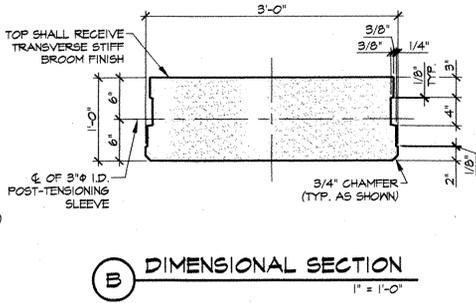
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



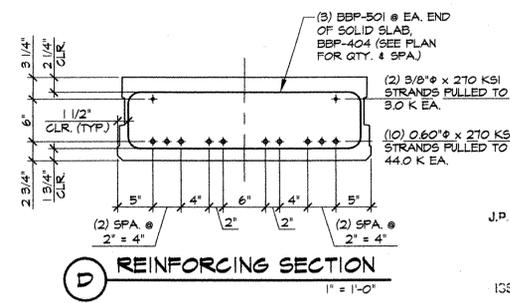
ANCHOR BOLT POCKET DETAIL
1/2" = 1'-0"



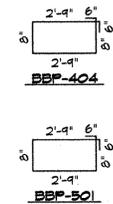
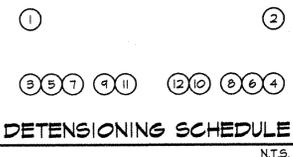
A DIMENSIONAL SECTION
1" = 1'-0"



B DIMENSIONAL SECTION
1" = 1'-0"



D REINFORCING SECTION
1" = 1'-0"



MARK: BBP-5542	QTY.: 1	WT.: 9.84 T	VOL.: 4.86 cy
MARK: BBP-5543	QTY.: 1	WT.: 10.08 T	VOL.: 4.98 cy
MARK: BBP-5544	QTY.: 1	WT.: 10.24 T	VOL.: 5.08 cy

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB		
			5542	5543	5544
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					

APPROVAL STAMP:

RECEIVED
NOV 14 2003

RESUBMIT APPROVED BY: [Signature]
DATE: 12/3/03

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
264 CASE ST., MOORESBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-0010

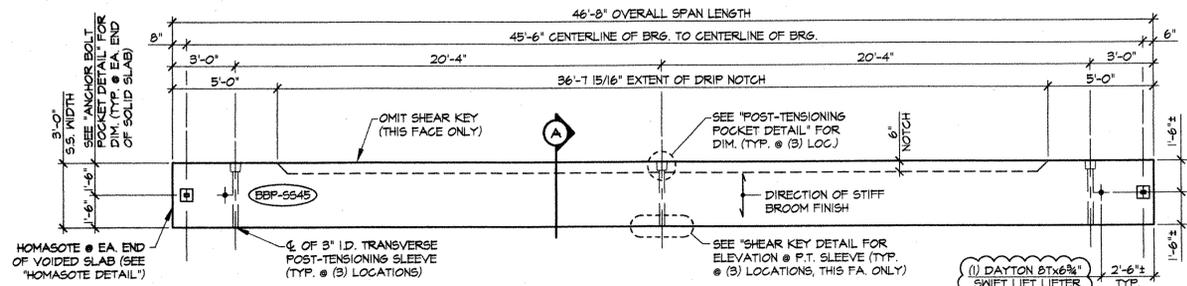
KUBRICKY CONSTRUCTION CORP.
CONTRACTOR
GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

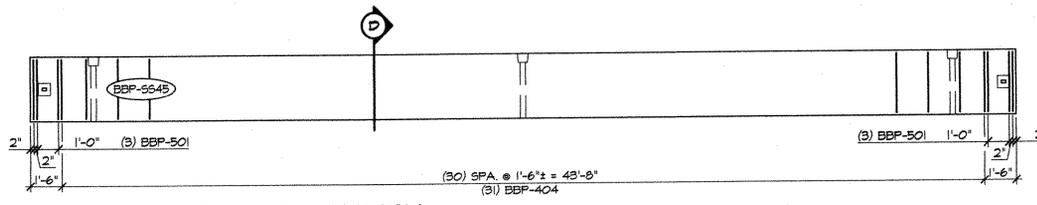
TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

P/S SOLID SLAB DETAILS

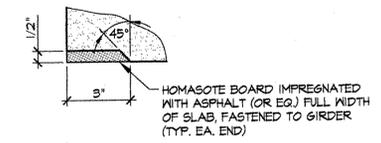
DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: [Signature] DFTM: B.L.
JOB NO: 23169-03
DWG. NO: SS15
114



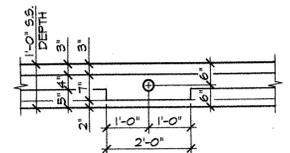
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



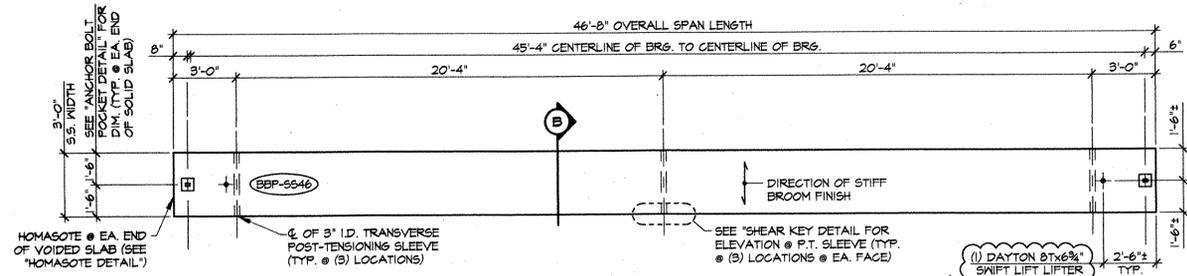
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



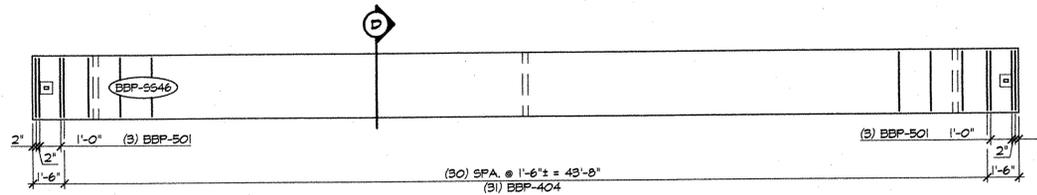
HOMASOTE DETAIL
3" = 1'-0"



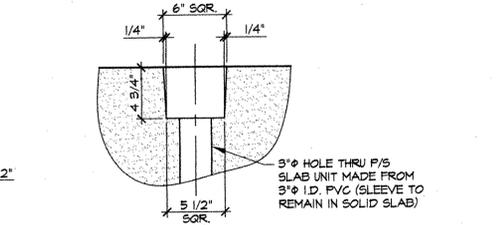
SHEAR KEY DETAIL
1/2" = 1'-0"



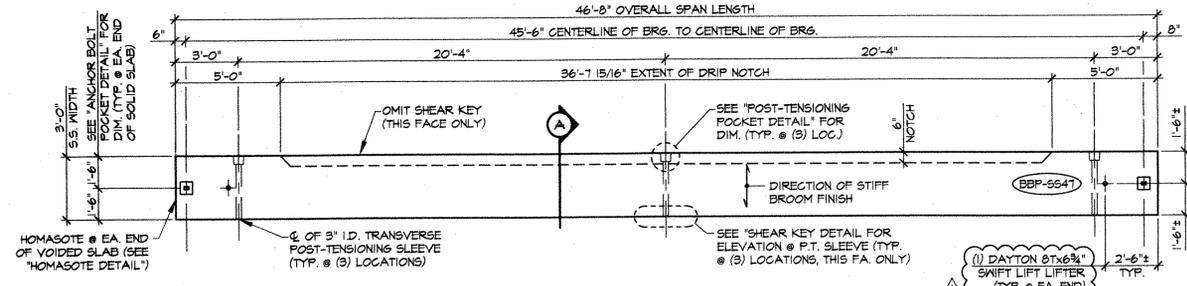
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



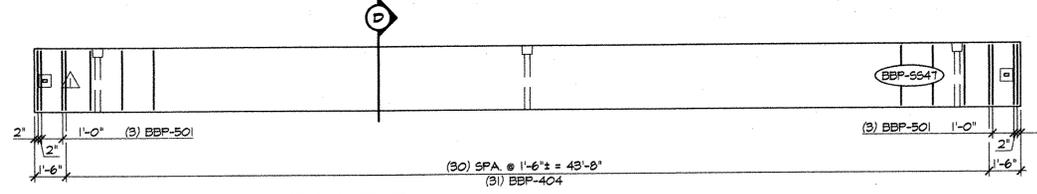
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



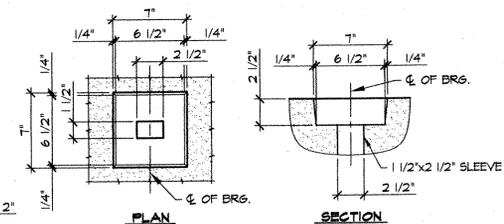
POST-TENSIONING POCKET DETAIL
1/2" = 1'-0"



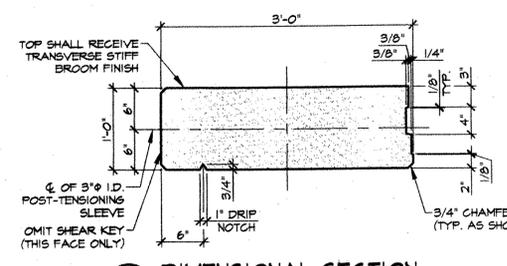
DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



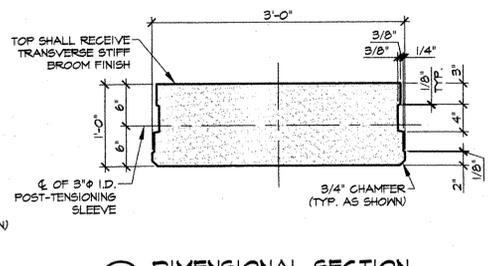
REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"



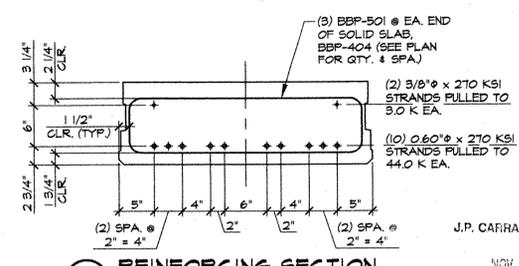
ANCHOR BOLT POCKET DETAIL
1/2" = 1'-0"



A DIMENSIONAL SECTION
1" = 1'-0"



B DIMENSIONAL SECTION
1" = 1'-0"

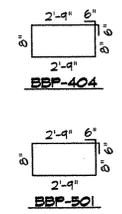


D REINFORCING SECTION
1" = 1'-0"

① ②

③ ⑤ ⑦ ⑨ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

DETENSIONING SCHEDULE
N.T.S.



MARK: BBP-SS45	QTY.: 1	WT.: 10.32 T	VOL.: 5.10 cy	Pci = 4000 PSI f'c = 6000 PSI	
MARK: BBP-SS46	QTY.: 2	WT.: 10.1 T	VOL.: 5.02 cy		
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					

APPROVAL STAMP:

RECEIVED
NOV 14 2003

RESUBMIT APPROVED
BY DATE 12/17/03

J.P. CARRARA & SONS INC. KUBRICKY CONSTRUCTION CORP.
Precast & Prestress Manufacturer CONTRACTOR
2844 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 GLENS FALLS, NEW YORK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

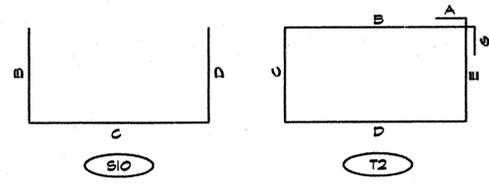
TOWN OF COLCHESTER
PROJECT NUMBER: STP BIKE (48)

F/S SOLID SLAB DETAILS

DATE: SEPT. 26, 2003
SCALE: NOTED
CHKD: DFTM: B.L.
JOB NO: 23164-03
DWG. NO: SS16
115

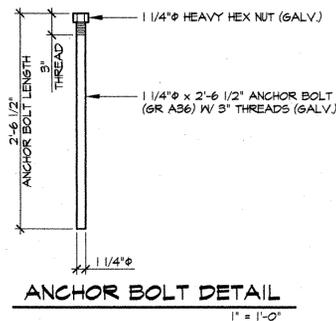
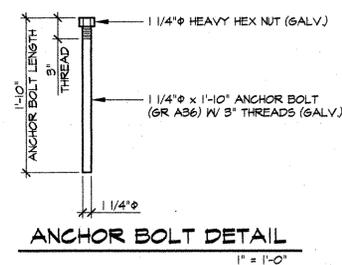
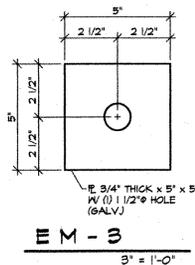
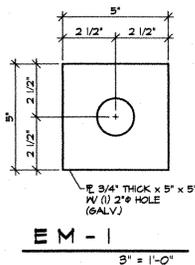
BENT BARS, TIES, & STIRRUPS

ITEM	MARK	QTY.	SIZE	LENGTH	TYPE	A	B	C	D	E	F/R	Ø	H	J	K	O	GRADE	REMARKS
1	401	468	#4	7'-11"	T2	6"	3'-0"	Ø"	3'-0"	Ø"		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	5256	#4	7'-3"	T2	6"	2'-4"	Ø"	2'-4"	Ø"		6"					60	
5																		
6	501	888	#5	7'-2 3/8"	T2	6"	2'-4"	Ø"	2'-4"	Ø"		6"					60	
7																		
8																		
9																		
10																		



MISCELLANEOUS MATERIALS

ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1	EM-1	222	FL WASHER 3/4" x 5" x 5" W/ (1) 2" HOLE (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
2	EM-3	368	FL WASHER 3/4" x 5" x 5" W/ (1) 1 1/2" HOLE (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
3		222	SINGLE USE STRESSING CHUCK	FOR ERECTION
4		111	1/2" Ø x 14'-4" POLYSTRAND	FOR ERECTION
5		296	1 1/4" Ø x 1'-10" ANCHOR BOLT (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
6		T2	1 1/4" Ø x 2'-6 1/2" ANCHOR BOLT (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
7				
8				
9				
10	BBB-L1	144	DAYTON 2T x 6" (MIN) SWIFT LIFT LIFTER (OR SIM)	
11				
12				
13				
14				
15				



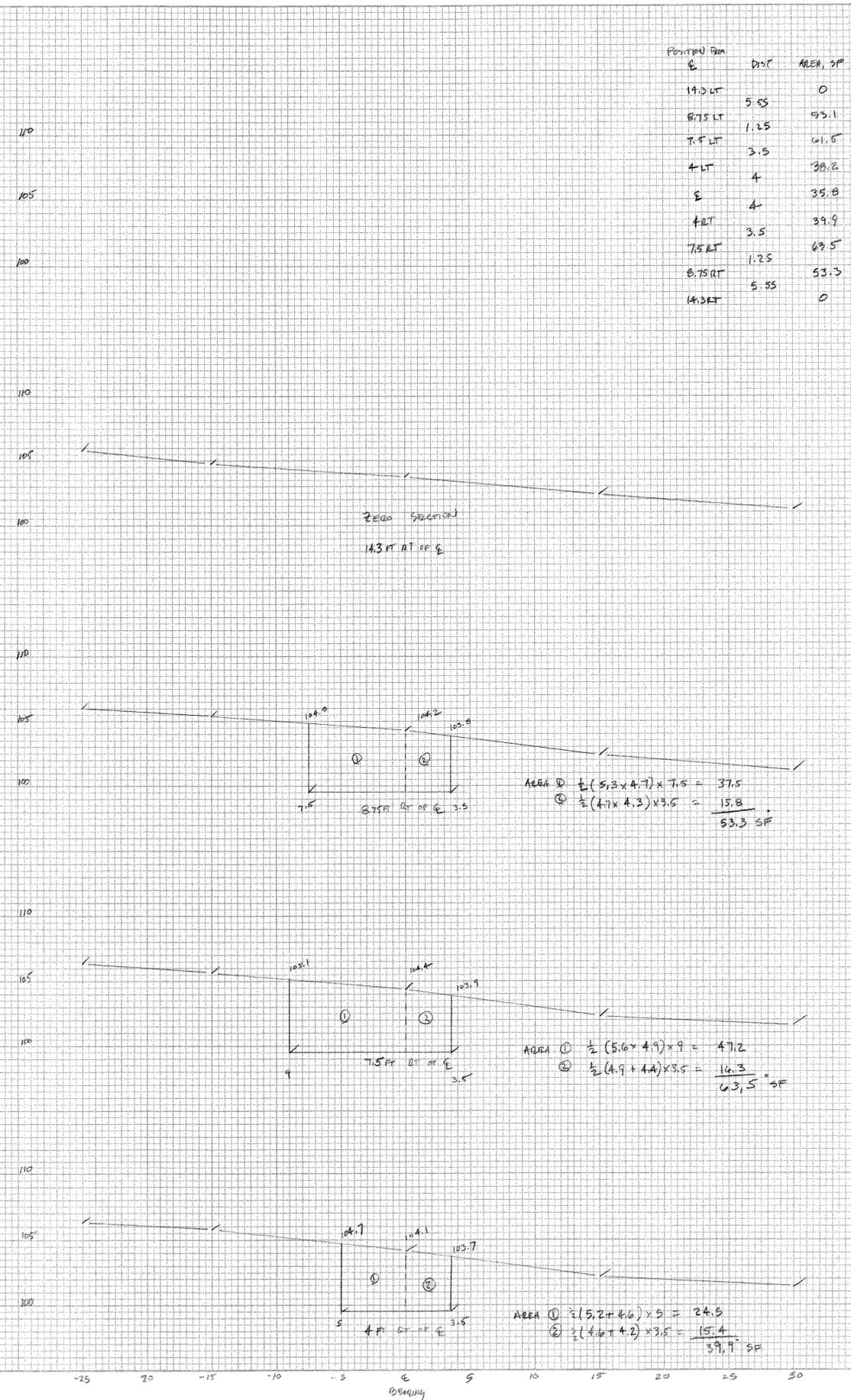
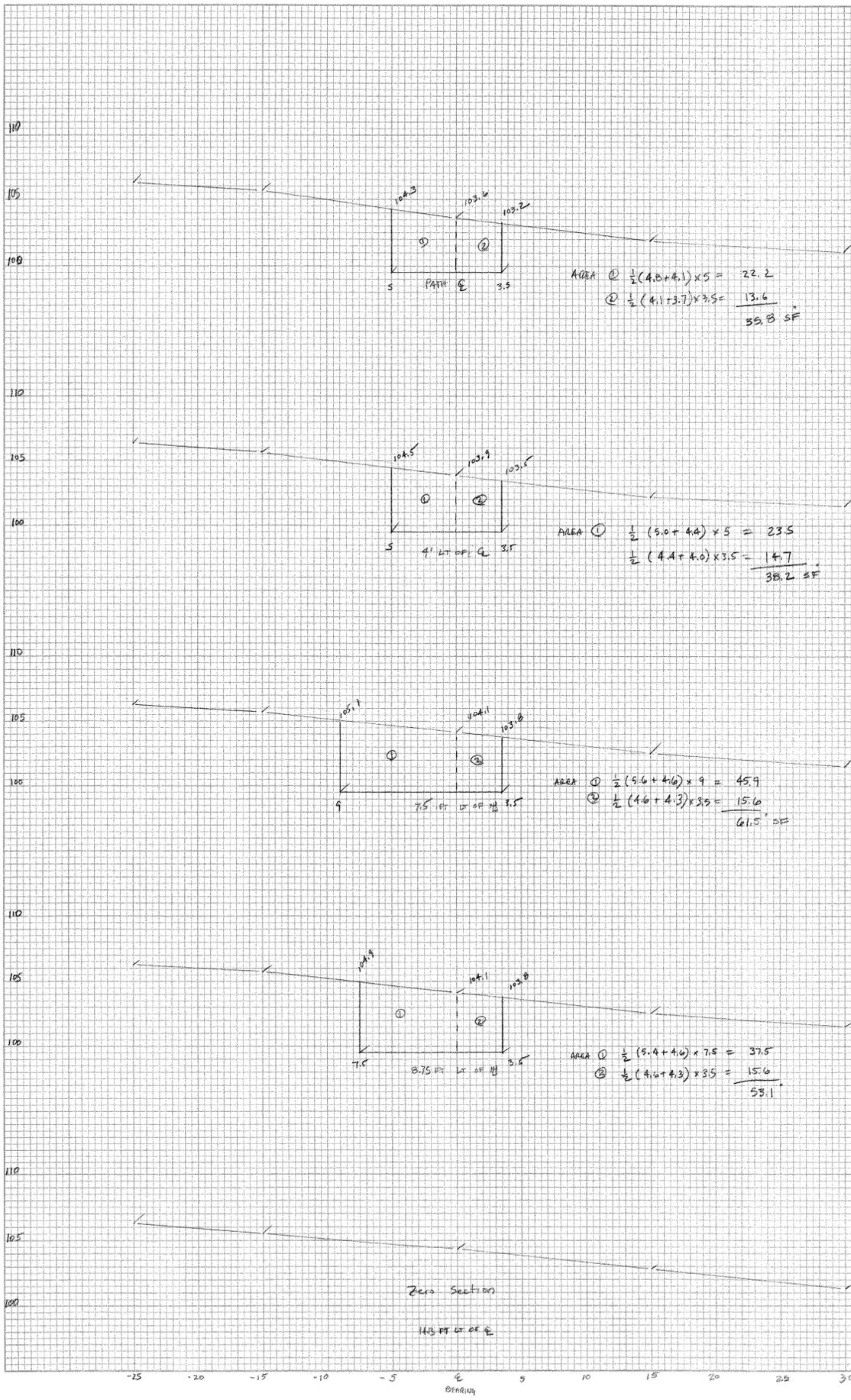
J.P. CARRARA & SONS, INC.
NOV 12 2003
ISSUED FOR PRODUCTION

11-11-03 REVISED AS NOTED

APPROVAL STAMP: RECEIVED OK'D BY <i>WGM</i> OK'D BY _____ NOV 14 2003 RESUBMIT _____ APPROVED <i>✓</i> BY _____ DATE 12/3/03	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</small>	KUBRICKY CONSTRUCTION CORP. CONTRACTOR <small>GLENS FALLS, NEW YORK</small>
	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

NO.	DATE	BY	REVISIONS
1			
2			
3			
4			
5			

NO.	DATE	BY	REVISIONS
1			
2			
3			
4			
5			



POSITION	Dist	AREA, SF	AVERAGE AREA, SF	VOLUME, CF
10+3	5.55	0	26.55	147.4
10+5	1.25	93.1	57.3	711.6
10+7	3.5	61.5	49.85	174.5
10+9	4	38.2	37.0	148.0
10+1	4	35.8	37.85	151.4
10+3	3.5	39.9	51.7	181.0
10+5	1.25	63.5	58.4	73.0
10+7	5.55	53.3	26.65	147.9
10+9	0	0		

1094.0 CF + 27 = 40.5 cy
 117
 VS-25-04 SFA

