

INDEX OF SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION
3	QUANTITY SHEET
4	BASELINE TIES
5-6	GENERAL PLAN
7-9	PROFILE 1-3
10	PLAN AND ELEVATION
10A	BORING INFORMATION SHEET
10B	BORING DETAIL SHEET
11	EROSION AND SEDIMENT CONTROL SHEET
12	GENERAL NOTES
13	TYPICAL BRIDGE DETAILS
14	ABUTMENT 1 AND 2 PLAN
15	ABUTMENT 1 AND 2 ELEVATION AND SECTIONS
16	ABUTMENT 1 AND 2 FOOTING PLAN AND DETAILS
17	PIER ELEVATION AND REINFORCING DETAILS
18	WING WALLS 2 AND 4 PLAN AND SECTIONS
19	MISCELLANEOUS DETAILS
19A	INSTALLATION OF PERMANENT SNOW FENCE
20	REINFORCING STEEL SCHEDULE
21	TYPICAL SECTIONS
22	TYPICAL SECTIONS
23	BLOCK WALL ELEVATIONS AND AT WING WALLS 1 AND 3
23A - 23I	REFERENCE PLANS (SHEETS 23A - 23I)

VAOT STANDARDS

B-5	SLOPE DETAILS	06-01-94
C-1	CURB DETAILS	01-03-00
C-2A	CURB AND SIDEWALK DETAILS	01-03-00
C-3	SIDEWALK RAMPS	01-03-00
D-3	TREATED GUTTERS	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-06-97
E-100A	SIDE ROAD CONSTRUCTION APPROACH SIGNS	01-06-97
E-101	CONSTRUCTION SIGN DETAILS	03-10-97
E-102	CONSTRUCTION SIGN DETAILS	08-08-95
E-102A	CONSTRUCTION SIGN DETAILS	08-08-95
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	09-23-98
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08-08-95
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	08-08-95
E-107A	BREAKAWAY BARRICADE DETAILS	08-08-95
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	08-08-95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-08-95
E-120	STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY	08-08-95
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08-08-95
E-140	REGULATORY SIGN DETAILS	08-30-96
E-160	FLANGED CHANNEL STEEL SIGN POST	05-20-99
F-1	WOVEN WIRE FENCE	01-03-00
F-2	CHAIN LINK FENCE (TYPE I)	06-01-94
T-1	TEMPORARY EROSION CONTROL PLANS	06-01-94
T-2	TEMPORARY EROSION CONTROL PLANS	06-01-94

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	---
TELEPHONE POLE	---
TREES	---
CONTROL OF ACCESS	---
PROPERTY LINE	---
ROW, TAKING LINE	---
SLOPE RIGHTS	---
TOP OF CUT	---
TOE OF CUT	---

DATUM	ASSUMED
VERTICAL	N/A
HORIZONTAL	N/A

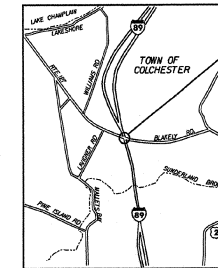
STATE OF VERMONT AGENCY OF TRANSPORTATION



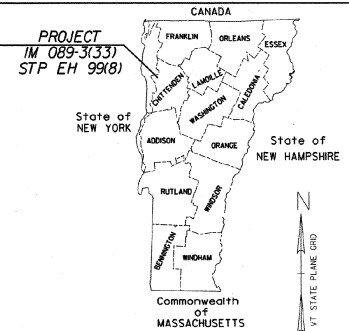
PROPOSED IMPROVEMENT TOWN OF COLCHESTER COUNTY OF CHITTENDEN BLAKELY ROAD PEDESTRIAN BRIDGE OVER INTERSTATE 89

LENGTH OF BRIDGE 267 ± FEET = 0.050 MILES
LENGTH OF PROJECT 1422 ± FEET = 0.270 MILES
BEGINNING AT A POINT APPROXIMATELY 0.146 MILES EAST OF THE
BLAKELY ROAD/I-89 INTERSECTION AND EXTENDING WEST 0.123 MILES.

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES CONSTRUCTION OF A PARALLEL
PEDESTRIAN BRIDGE AND RELATED APPROACH WORK AND GUARDRAIL MODIFICATIONS IN THE I-89 MEDIAN

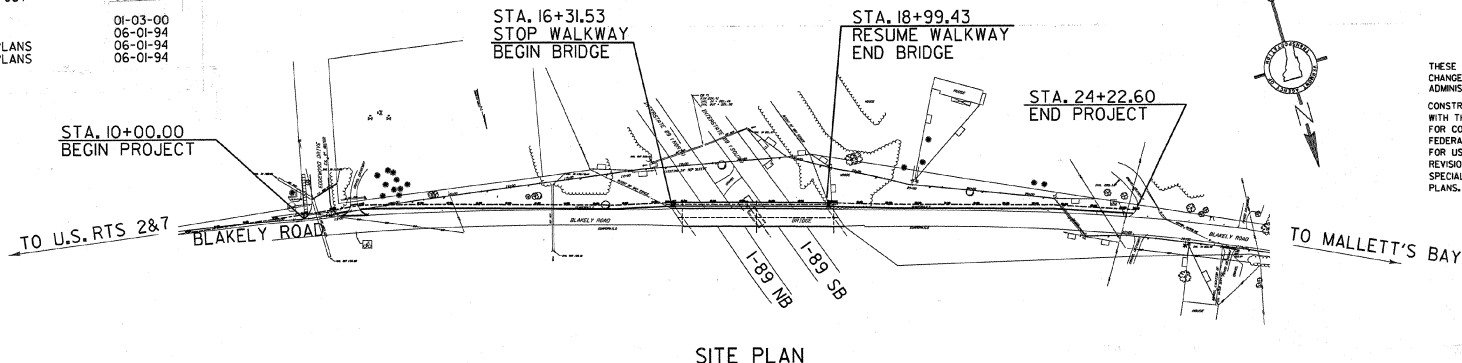


VICINITY MAP
(NOT TO SCALE)



RECORD PLANS

CONTRACTOR:	CONTRACTOR'S CRANE SERVICE - MORRISVILLE VT.
RESIDENT ENGINEER:	R. STANCLIFF
CONSTRUCTION BEGAN:	SEPTEMBER 23, 2002
CONSTRUCTION COMPLETE:	
RECORD PLANS BY:	R. RICHERT
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	Resident Engineer
DATE:	June 20, 2003
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found on microfilm in Central Files.	



SITE PLAN

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



BY: [Signature] 8-24-01

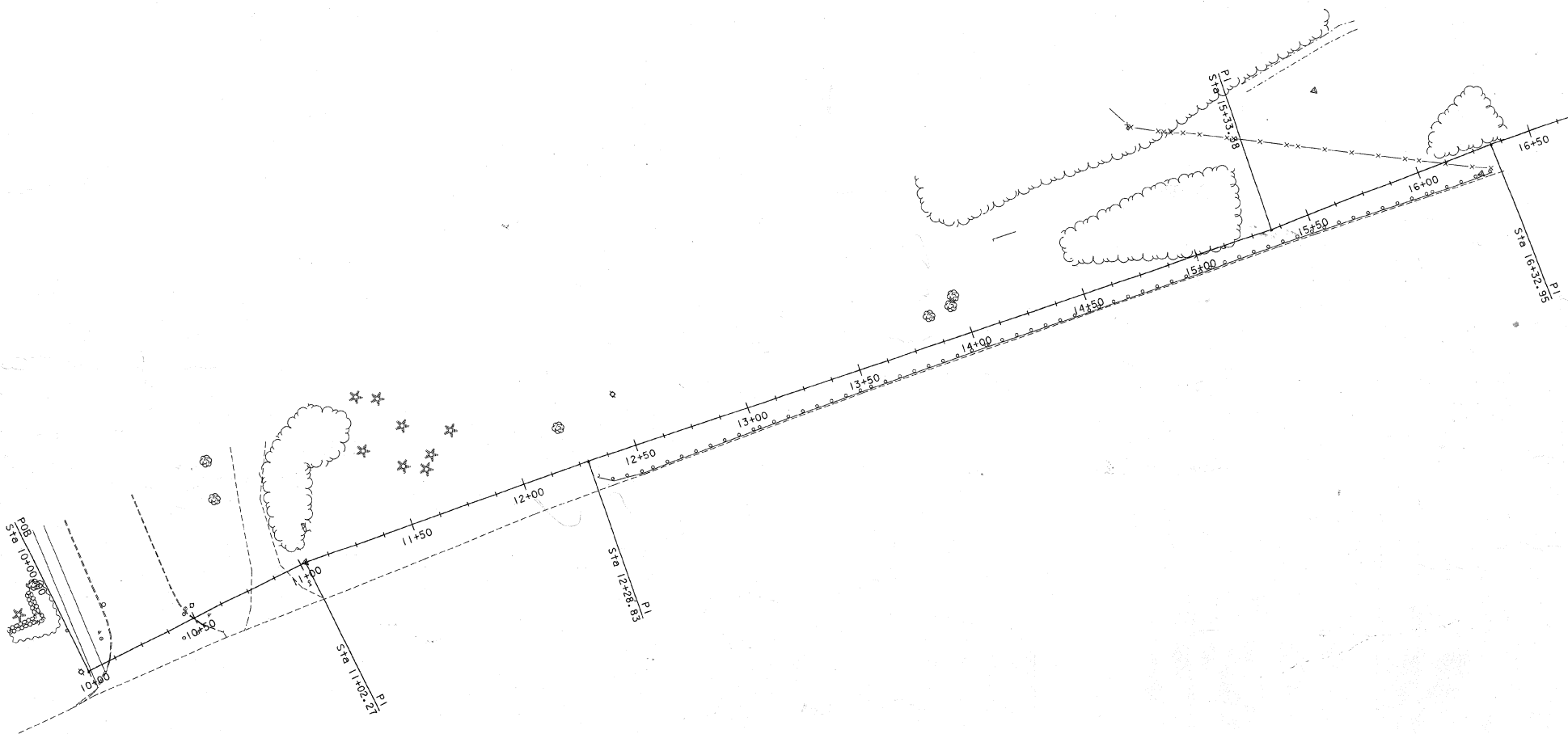
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE 11/4/01
DIRECTOR OF PROJECT DEVELOPMENT

PROJECT MANAGER:
SHERWARD G. FARNSWORTH

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, PLANNERS, ARCHITECTS & LANDSCAPE ARCHITECTS
BOSTON, MA 02110

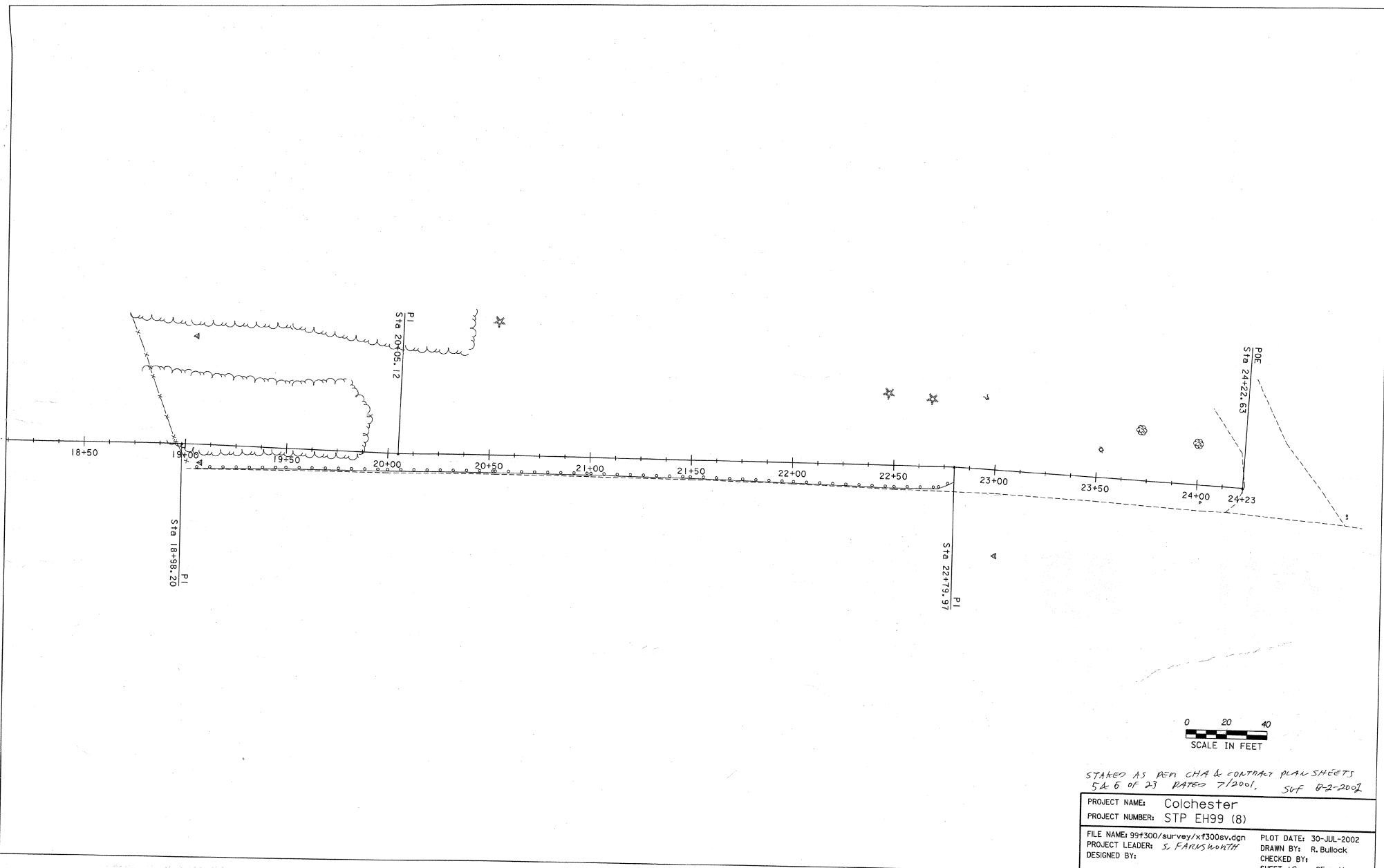
PROJECT: W-089-3(33) STP EH 99(8)
SHEET 1 OF 23 SHEETS

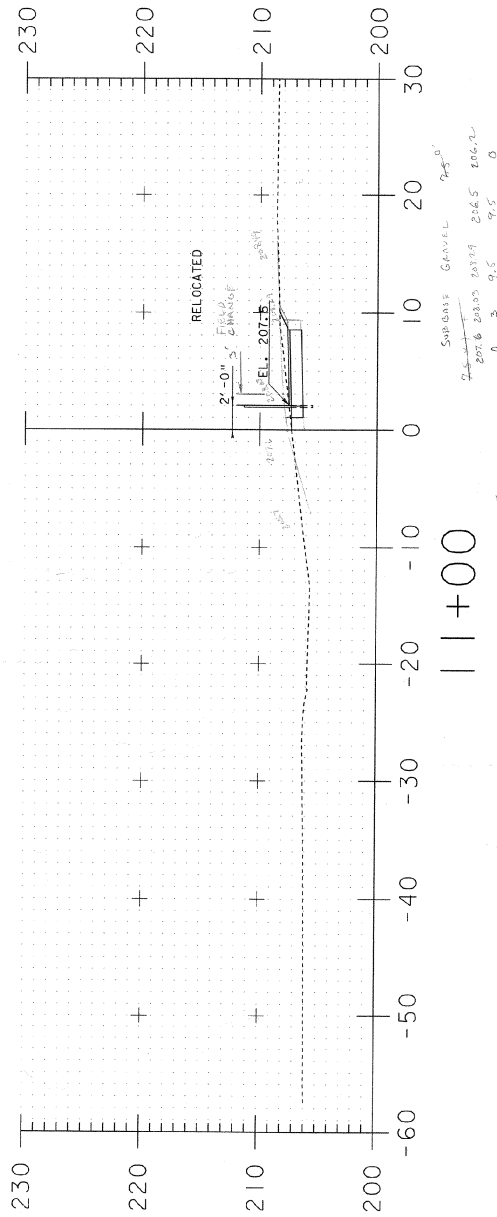


0 20 40
SCALE IN FEET

STAKED AS PER CHA & CONTRACT R&M SHEET
5 OF 23 RATED 7/2001. S&F 8-2-2002

PROJECT NAME:	Cochester		
PROJECT NUMBER:	STP EH 99 (8)		
FILE NAME:	99f300/survey/xf300sv.dgn	PLOT DATE:	30-JUL-2002
PROJECT LEADER:	S. FARMWORTH	DRAWN BY:	R. Bullock
DESIGNED BY:		CHECKED BY:	
		SHEET	1A OF 11

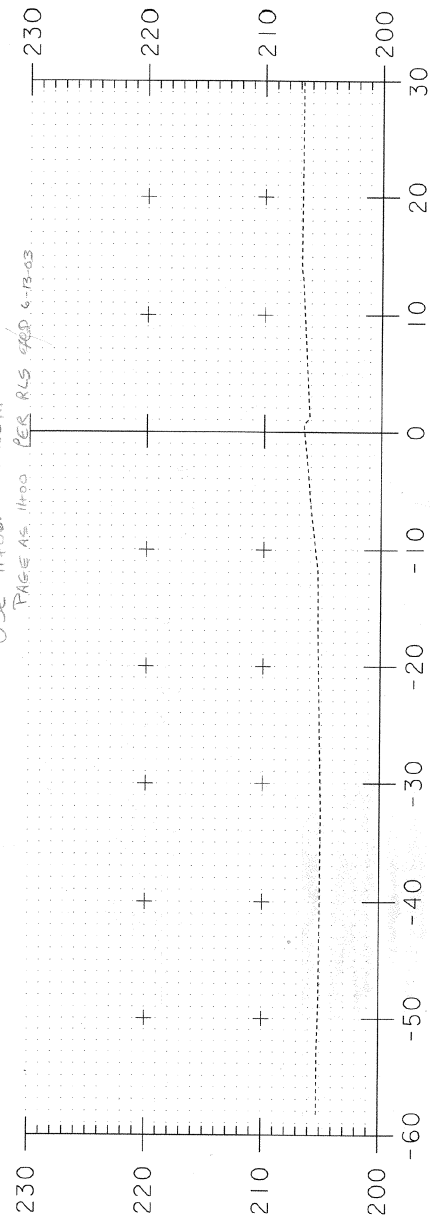




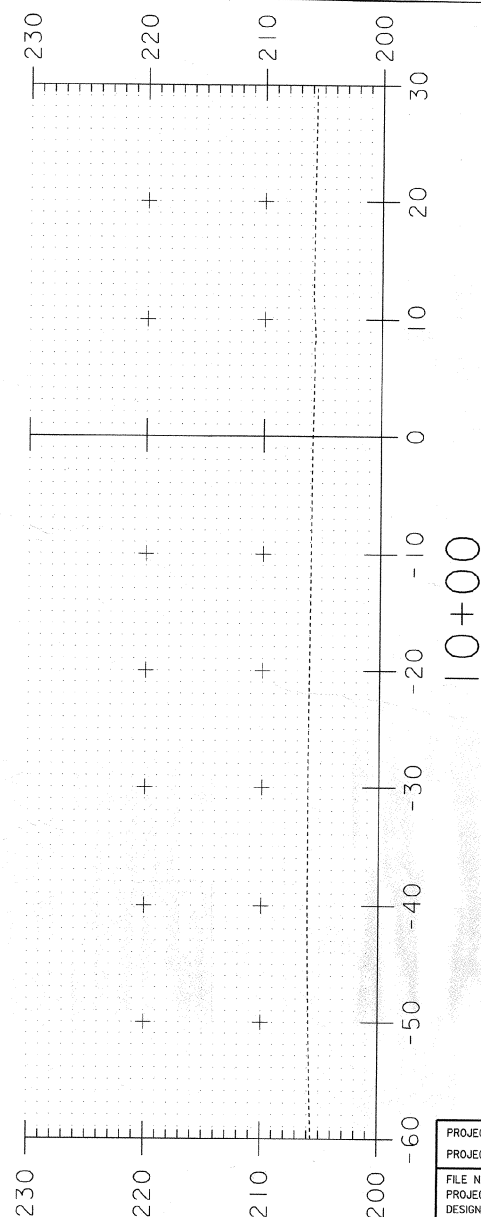
11+00

USE 11+00.17 ON NEXT

PAGE AS 1100. PER RLS 440 6-13-03



10+50

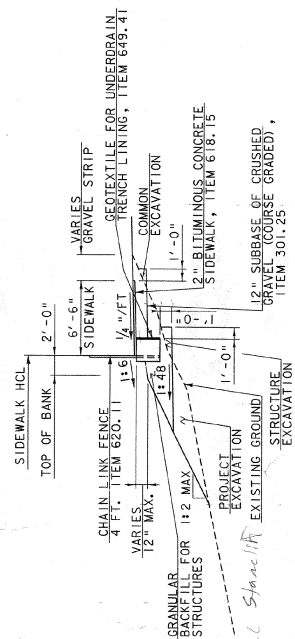
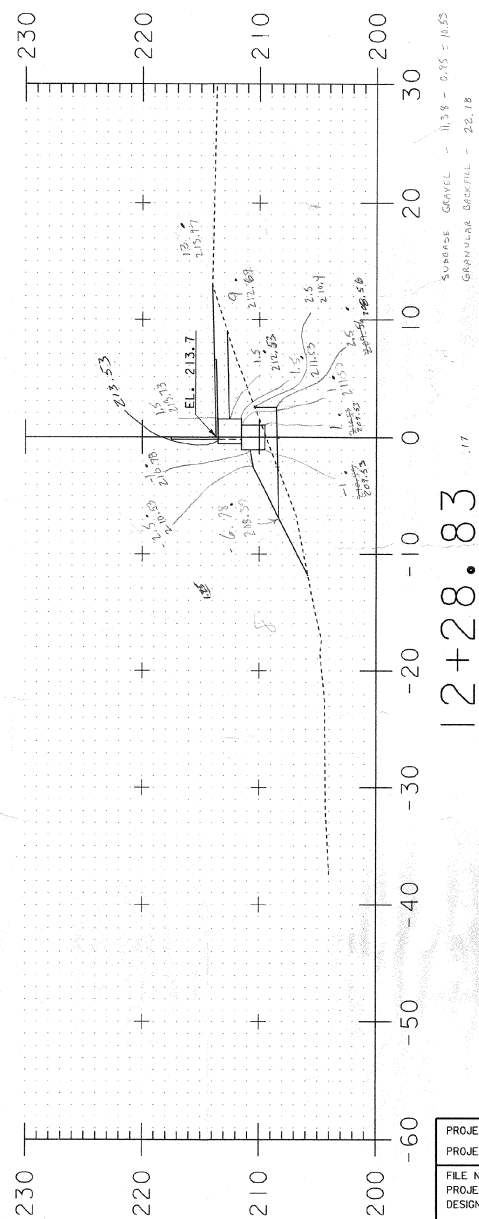
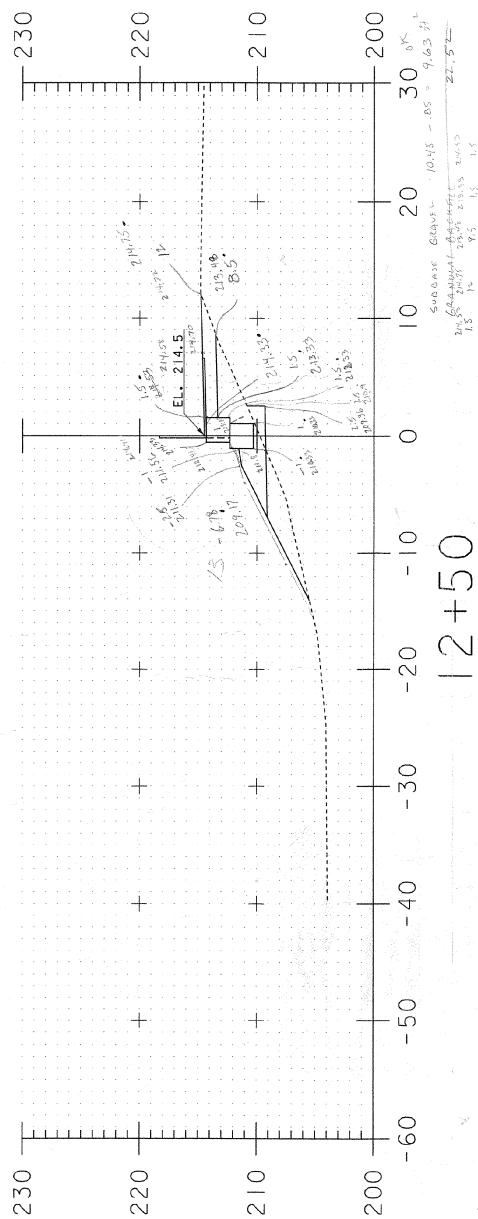
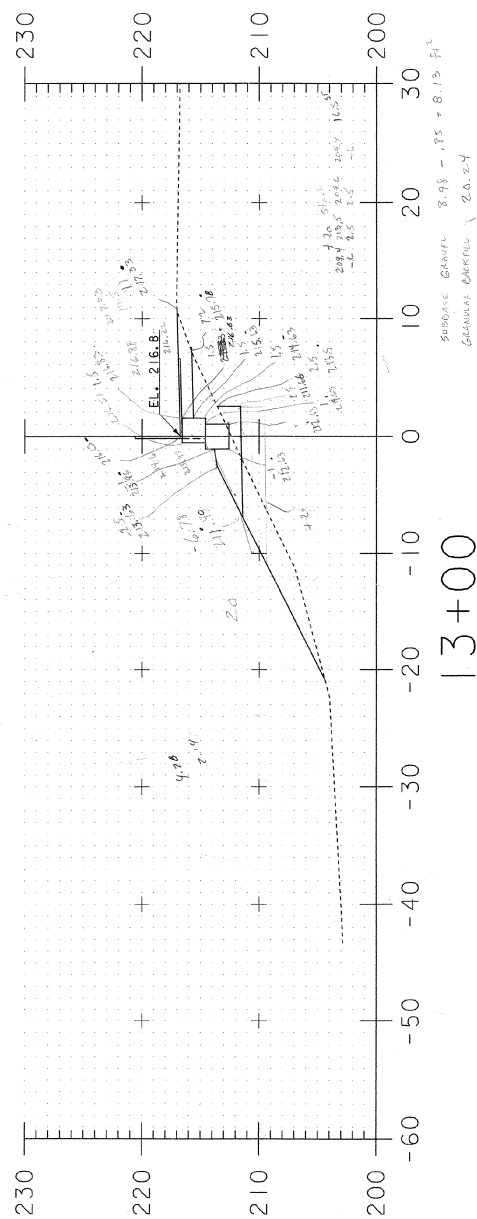


PROJECT NAME: Colchester
PROJECT NUMBER: STP EH99 (8)

FILE NAME: 99f300/survey/xf300wrk.dgn PLOT DATE: 07-AUG-2002
PROJECT LEADER: J. FARNSWORTHY DRAWN BY: R. Bullock
DESIGNED BY: CHECKED BY: SHEET 1C OF 11

SCALE 1"=5'-0"

Calculations by R L Stancliff
April 2002



Calicutto's
Aug 2002

Aug 2002

SCALE 1" = 5'-0"

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP EH99 (8)

PROJECT NUMBER: STP EH99 (8)

FILE NAME: 99f300/survey/xf300wrk.dgn
PROJECT LEADER: S. FARNSWORTHY
DESIGNED BY:

PLOT DATE: 07-AUG-2002

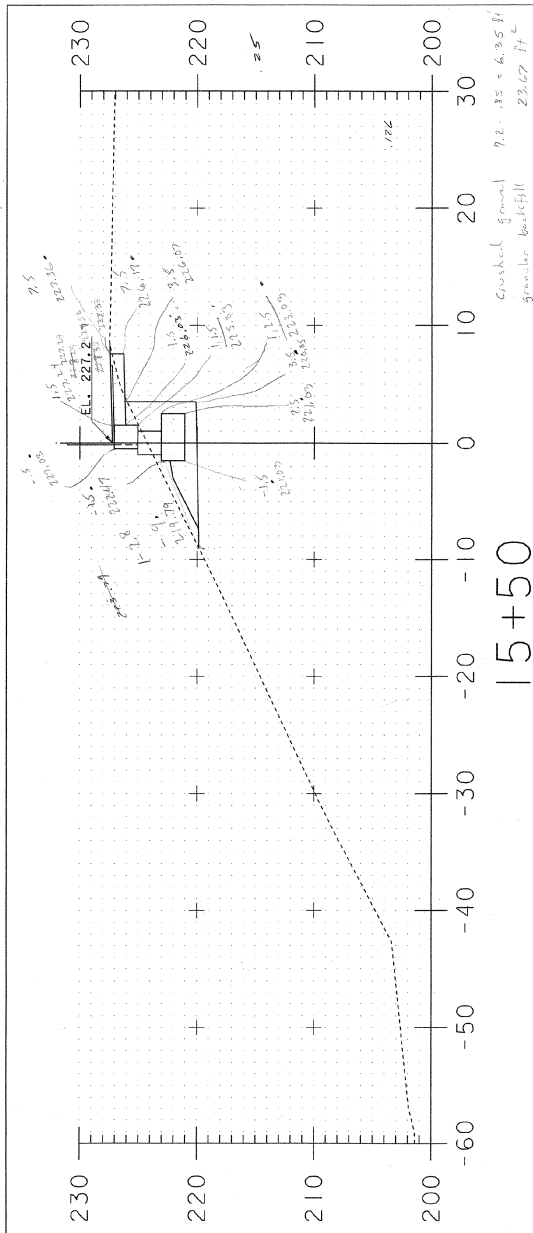
PROJECT LEADER: S. FARNSWORTH

DRAWN BY: R. Bullock

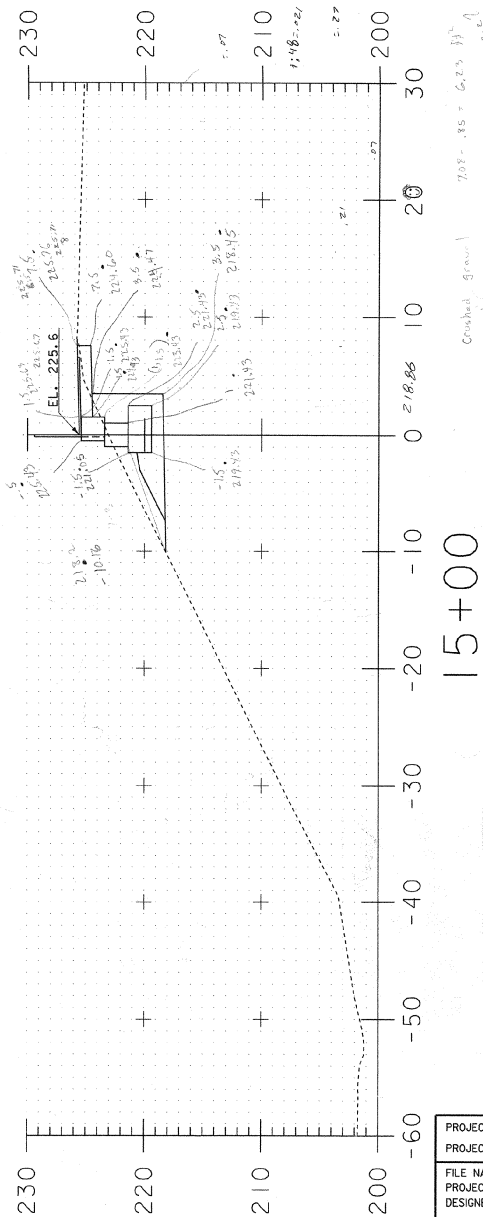
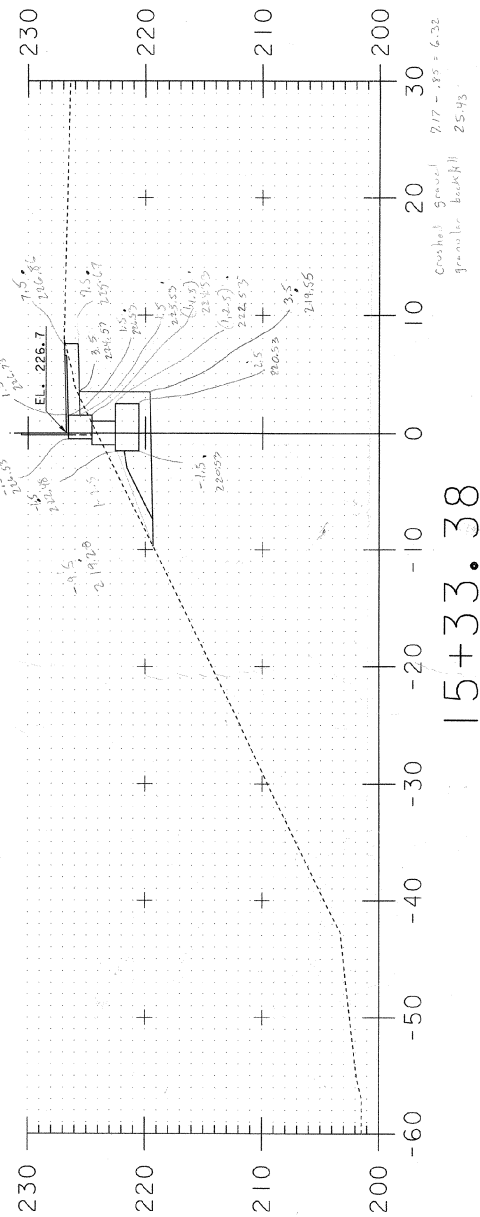
DESIGNED BY:

CHECKED BY:

SHEET 3 OF 11



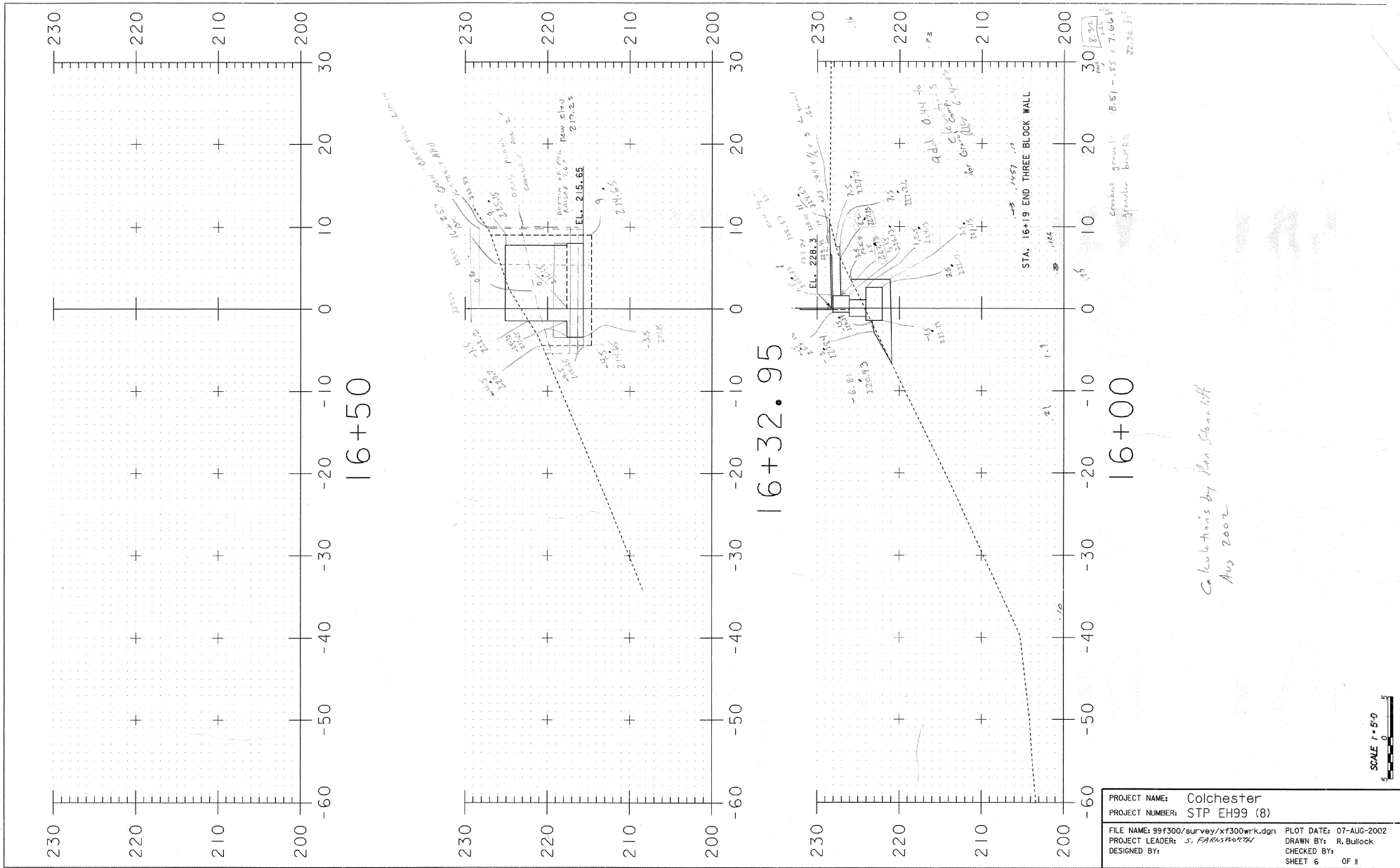
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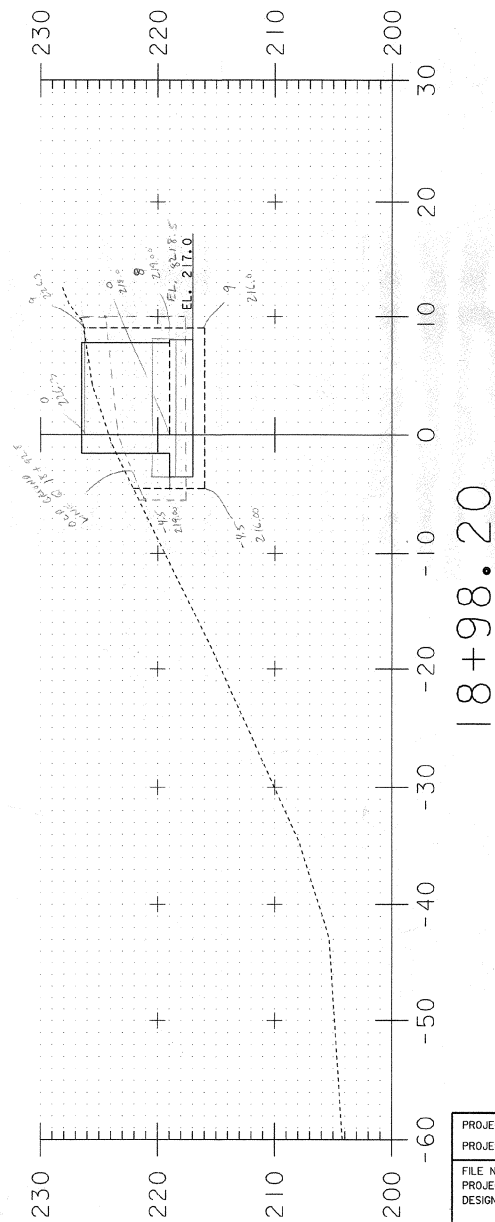
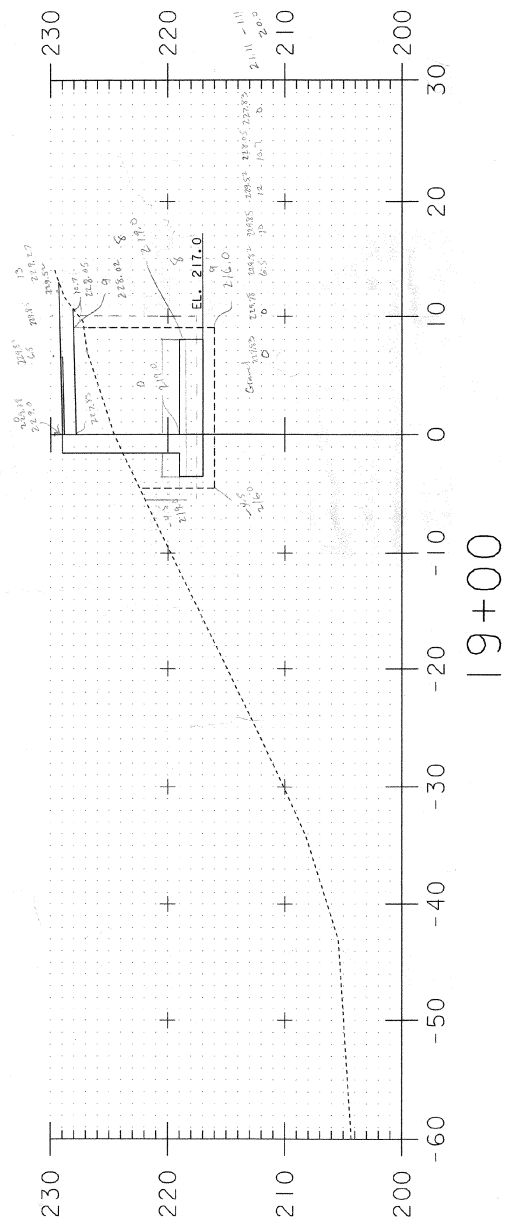
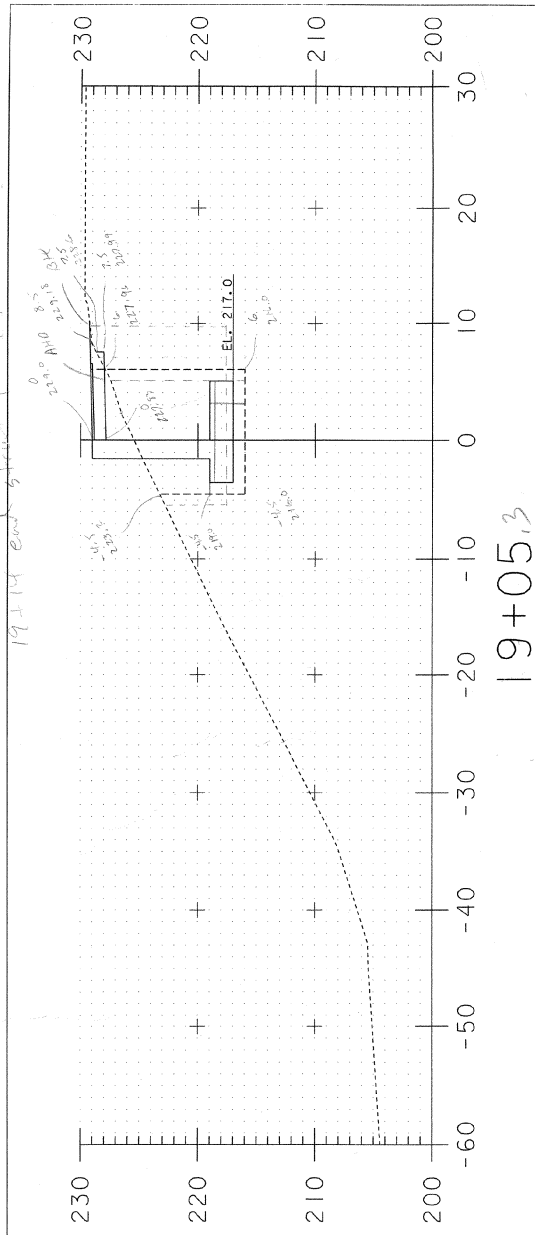
Calculations by Ron Stancif
Aug 2002

SCALE 1"=5'-0"

PROJECT NAME: Colchester
PROJECT NUMBER: STP EH99 (8)
FILE NAME: 99f300/survey/x300wrk.dgn
PROJECT LEADER: S. FARRASHER
DESIGNED BY:
PLOT DATE: 07-AUG-2002
DRAWN BY: R. Bullock
CHECKED BY:
SHEET 5 OF 11



19+14 end of street for Abut H ~

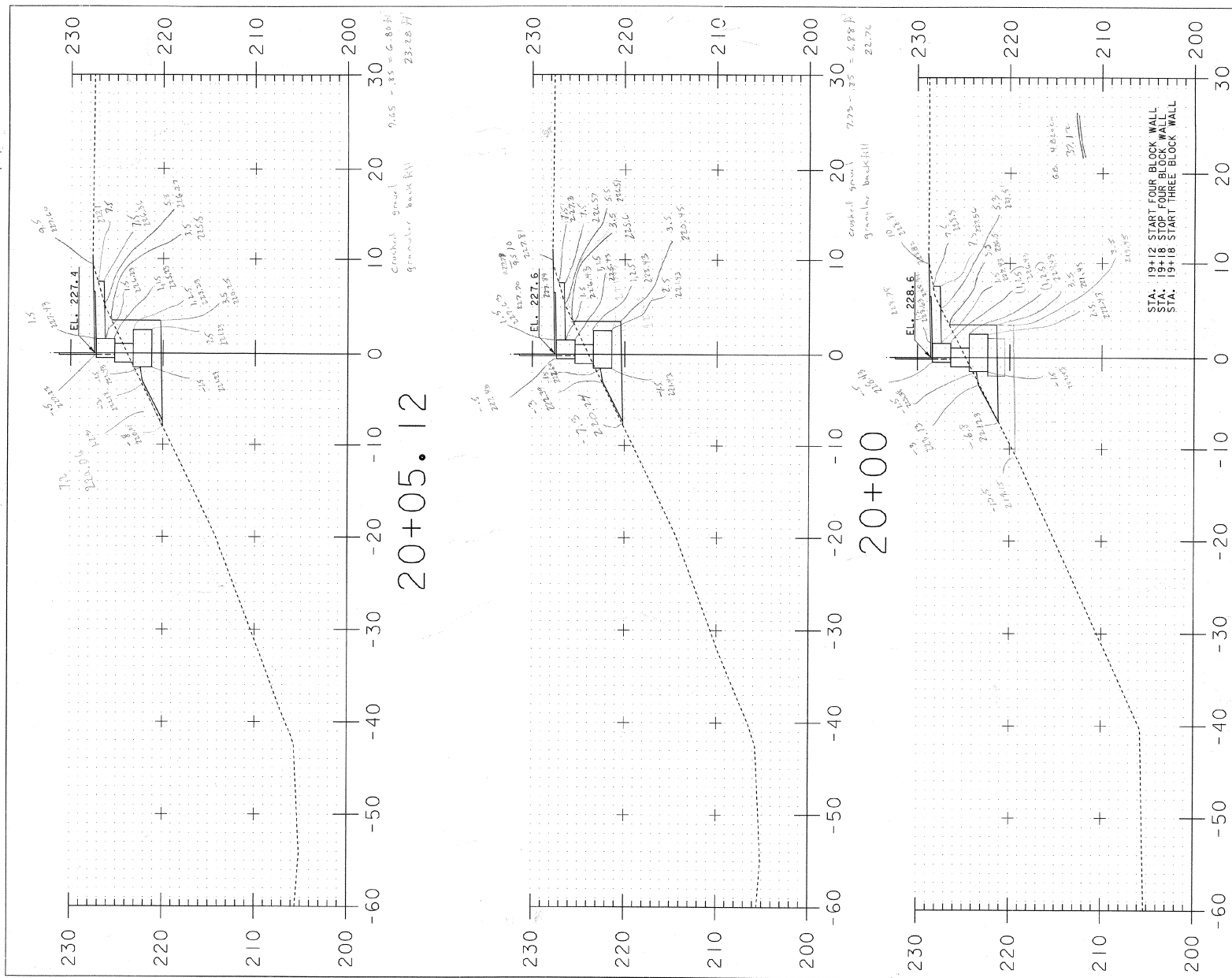


18+98.8 Begin Street

Calculations by Ron Stancik
Aug 2002

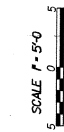
PROJECT NAME:	Colchester	PROJECT NUMBER:	STP EH99 (8)
FILE NAME:	99f300/survey/xf300wrk.dgn	PLOT DATE:	07-AUG-2002
PROJECT LEADER:	J. FAROJ36074	DRAWN BY:	R. Bullock
DESIGNED BY:		CHECKED BY:	
		SHEET	7 OF 11

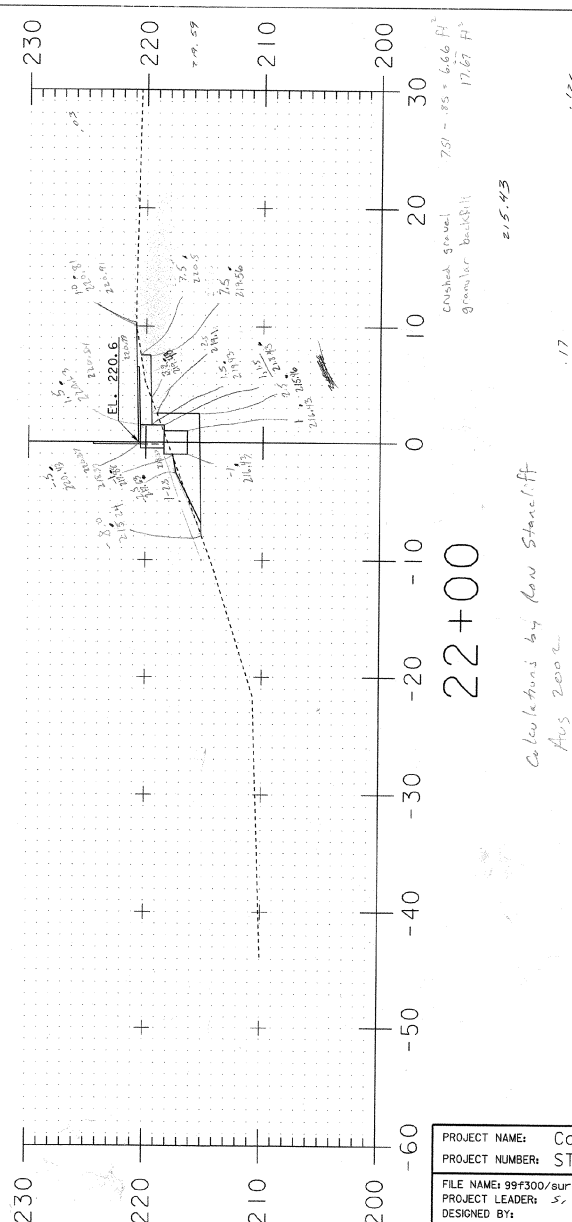
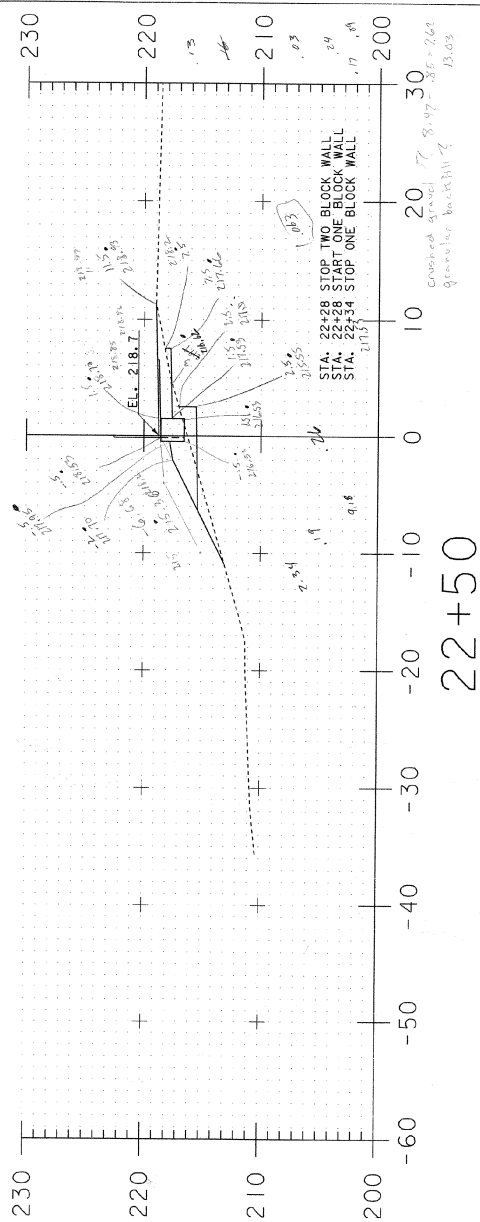
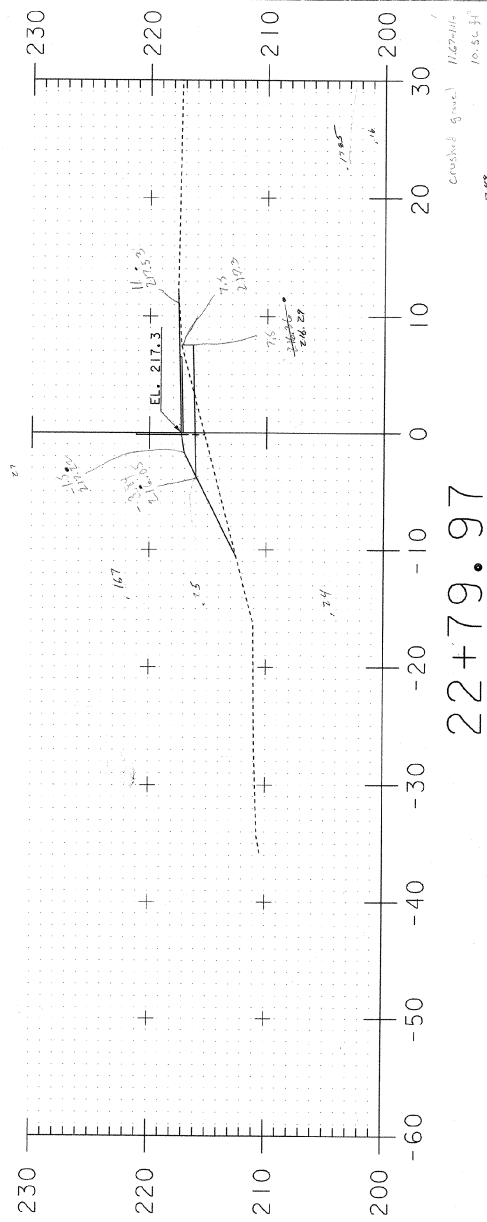
SCALE 1" = 5'-0"



PROJECT NAME: Colchester
 PROJECT NUMBER: STP EH99 (8)
 FILE NAME: 99f300/survey/xf300wrk.dgn PLOT DATE: 07-AUG-2002
 PROJECT LEADER: S. FARUKSHAWATY DRAWN BY: R. Bullock
 DESIGNED BY: CHECKED BY:
 SHEET 8 OF 11

Calculations by Ron Stenciliff
 Aug 2002

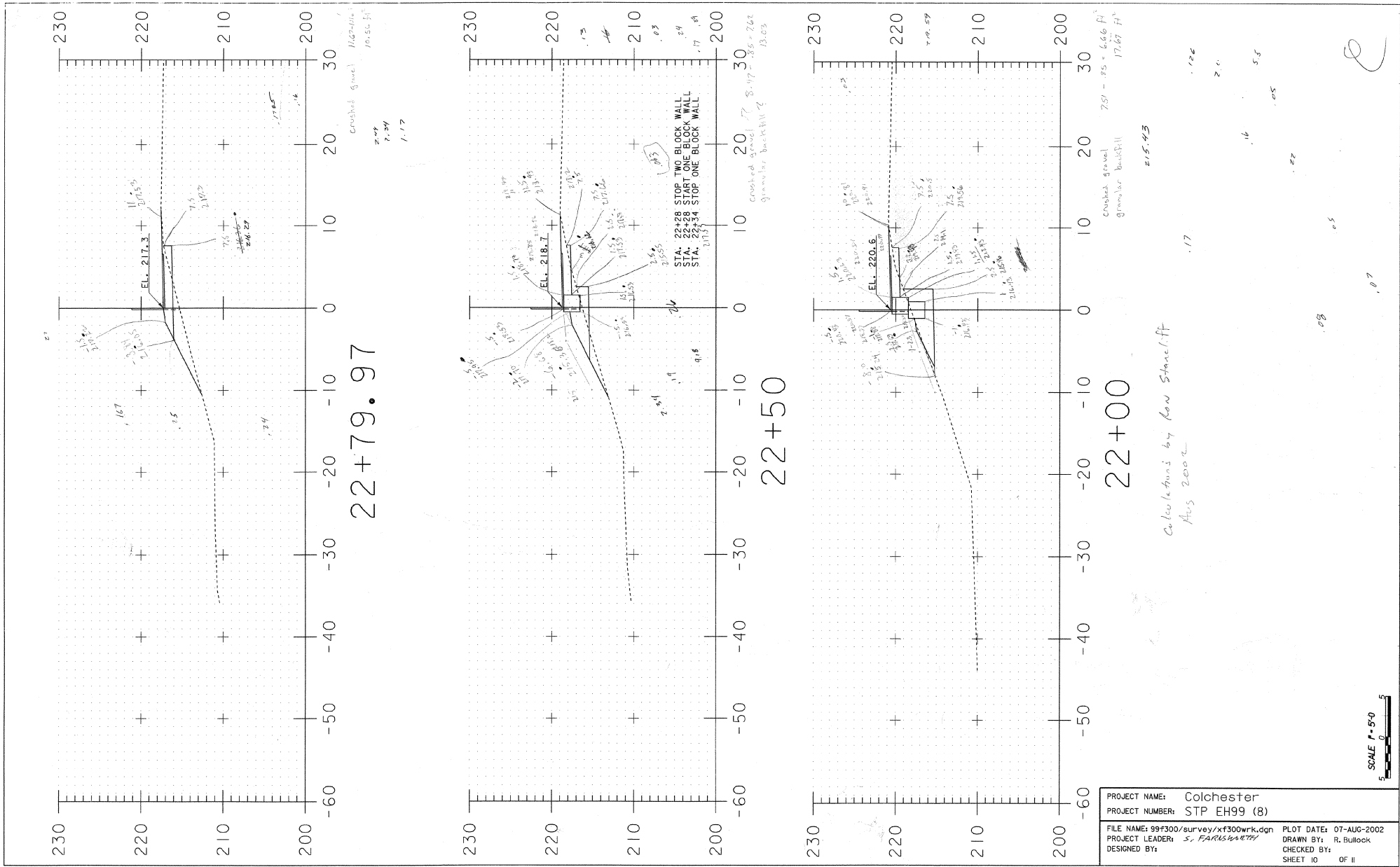


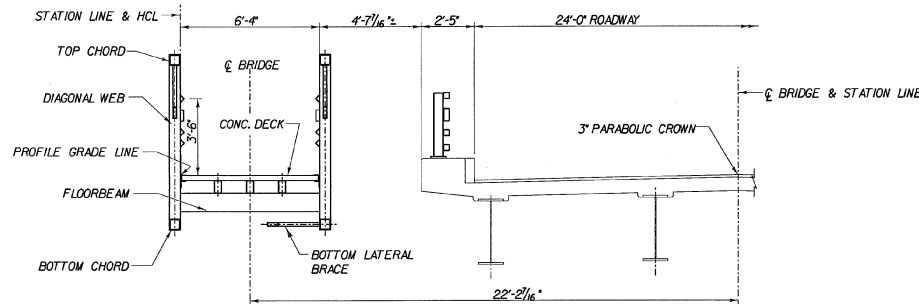


Calculations by Ron Stancliff
Aug 2002

PROJECT NAME:	Colchester
PROJECT NUMBER:	STP EH99 (8)

FILE NAME: 99f300/survey/xf300wrk.dgn PLOT DATE: 07-AUG-2002
PROJECT LEADER: S. FARNSWORTHY DRAWN BY: R. Bullock
DESIGNED BY: CHECKED BY:
SHEET 10 OF 11





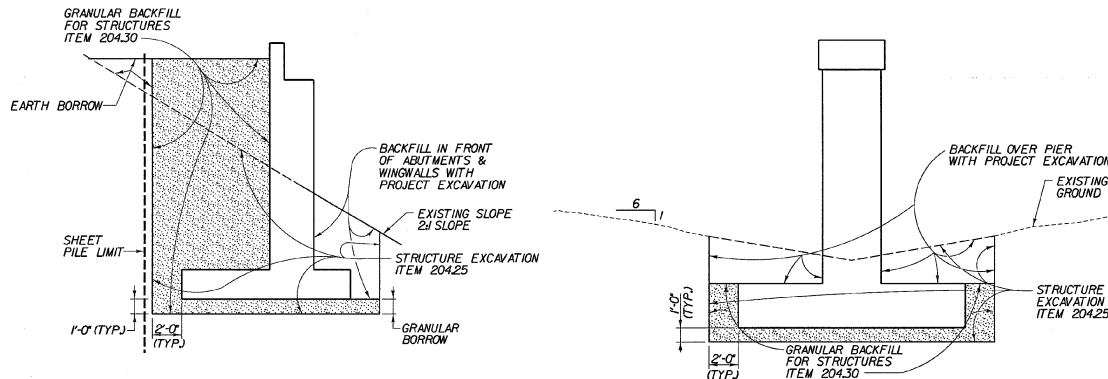
PROPOSED PEDESTRIAN BRIDGE SECTION

EXISTING BRIDGE SECTION

SCALE 3/8" = 1'-0"

SCALE 3/8" = 1'-0"

SEE SHEET #2 FOR GENERAL NOTES



TYPICAL ABUTMENT EARTHWORK DETAIL
(NOT TO SCALE)

TYPICAL PIER EARTHWORK DETAIL
(NOT TO SCALE)

FINAL HYDRAULICS REPORT

HYDROLOGIC DATA

DRAINAGE AREA: N/A
 CHARACTER OF TERRAIN:
 CHARACTER & TYPE OF STREAM:
 NATURE OF STREAMBED:
 DATE OF FLOOD OF RECORD:
 WATER SURFACE ELEV. @ FLOOD OF RECORD:
 VELOCITY:
 DOES THE STREAM REACH MAXIMUM HIGH WATER ELEVATION RAPIDLY?
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?
 IF YES, DESCRIBE:
 WATERSHED STORAGE:
 HEADWATERS:
 IMMEDIATELY ABOVE SITE:
 STRUCTURE TYPE: YEAR BUILT:
 CLEAR SPAN NORMAL TO STREAM:
 VERTICAL CLEARANCE ABOVE STREAMBED:
 WATERWAY OF FULL OPENING:
 DISPOSITION OF STRUCTURES:
 TYPE OF MATERIAL UNDER SUBSTRUCTURE:
 WATER SURFACE ELEV. @ 02.33: VELOCITY:
 00+ 000+
 05+ 050+
 10+ 100+
 15+ 150+
 LONG TERM STREAM BED CHANGES:
 IS THE ROADWAY OVERTOPPED BELOW THE 000? FREQUENCY:
 RELIEF ELEVATION: DISCHARGE OVER ROAD @ 000:
 UPSTREAM STRUCTURE: TOWN: DISTANCE:
 HIGHWAY NO.: STRUCTURE NO.:
 STRUCTURE TYPE: CLEAR SPAN:
 YEAR BUILT: FULL WATERWAY:
 UPSTREAM STRUCTURE: TOWN: DISTANCE:
 HIGHWAY NO.: STRUCTURE NO.:
 STRUCTURE TYPE: CLEAR SPAN:
 YEAR BUILT: FULL WATERWAY:
 DOWNSTREAM STRUCTURE: TOWN: DISTANCE:
 HIGHWAY NO.: STRUCTURE NO.:
 STRUCTURE TYPE: CLEAR SPAN:
 YEAR BUILT: FULL WATERWAY:

PROPOSED STRUCTURE

STRUCTURE TYPE: TWO SPAN STEEL TRUSS - PEDESTRIAN BRIDGE
 CLEAR SPANNORMAL TO ROAD: 35'-0" SPAN 1 187'-0" SPAN 2
 VERTICAL CLEARANCE ABOVE ROADWAY: 17'-0"
 WATERWAY OF FULL OPENING: N/A
 WATER SURFACE ELEV. @ 02.33: VELOCITY:
 00+ 000+
 05+ 050+
 10+ 100+
 15+ 150+
 IS THE ROADWAY OVERTOPPED BELOW THE 000? FREQUENCY:
 RELIEF ELEVATION: DISCHARGE OVER ROAD @ 000:
 AVERAGE LOW ELEVATION OF SUPERSTRUCTURE:
 VERTICAL CLEARANCE @ 050:
 SCOUR:
 REQUIRED CHANNEL PROTECTION:

PERMIT INFORMATION

AVERAGE DAILY FLOW: N/A DEPTH:
 ORDINARY LOW WATER: DEPTH:
 ORDINARY HIGH WATER: DEPTH:

ADDITIONAL COMMENTS

ULTIMATE CONSTRUCTION COVERS ACTUAL VERTICAL CLEARANCE
MINIMUM VERTICAL CLEARANCE EQUALS 17'-0"

CHA CLOUGH HARBOUR & ASSOCIATES LLP
 ENGINEERS, PLANNERS, ARCHITECTS
 110 HUNTER DRIVE ALBANY, NEW YORK 12208

DESIGN CRITERIA

1. DESIGN LIVE LOAD: ASHTO HS 20-44 TRUCK, 100 KIP
 2. DESIGN SPAN: 187 FT SPAN 2
 3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: 3 KIP
 4. ALLOWABLE LOAD FOR PILING: TYPE: ON LEAVE: ESTIMATED LENGTH:
 5. STRUCTURAL STEEL: ASTM A572 GR 50
 6. REINFORCING STEEL: ASTM A603
 7. CONCRETE: CLASS A
 CLASS B: 3.5 KSI
 SLAB FILL: 4.0 KSI

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

LOAD FACTOR LOAD RATING (TONS)							
LOADING LEVELS LOAD FACTOR	TRUCK						
	H	HS	352	6 AXLE	3A,STR.	4A,STR.	5A,SEM.
	N/A						
	INVENTORY						
	A = 2.75; B = 1.00						
POSTED							
A = 1.55; B = 1.40							
OPERATING							
A = 1.30; B = 1.67							

RE = 0.90 - 1.3 Mpa
 A x MILLI
 95 FT SLLH - Mpa
 SLLH - Mpa
 167 MILLI

PROJECTED TRAFFIC DATA					
YEAR	ADT	DHV	% D	% T	% ADTT
N/A					
2020					

20 year ESAL for flexible pavement from 2000 to 2020: 4,825,000
 40 year ESAL for flexible pavement from 2000 to 2040: 17,225,000
 Design speed: 100 MPH

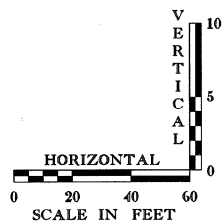
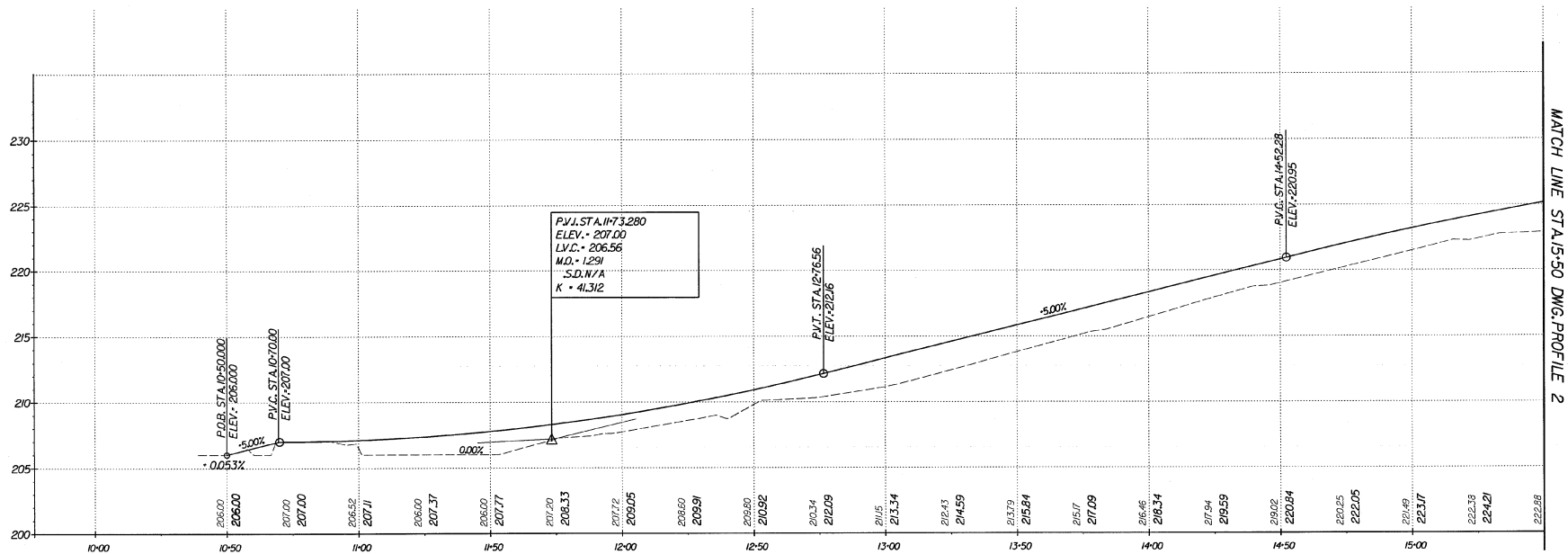
STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of: COLCHESTER Bridge No.:
 Highway No.: I-89 Log Sta.:
 Surf. Sta.:
 BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89
 PRELIMINARY INFORMATION
 Designed By: D. STECIK Drawn by: K. DETRICK/J. LAGONE
 Checked By: M. OLSTAD Date: 7/2001 Bridge Design Supervisor: M. OLSTAD Date: 7/2001
 PROJECT: COLCHESTER PROJECT NO.: 84-089-1033
 L&C Info: SFP: 101 9988
 Bridge Sheet No.: Sheet 2 OF 23

[illegible]

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

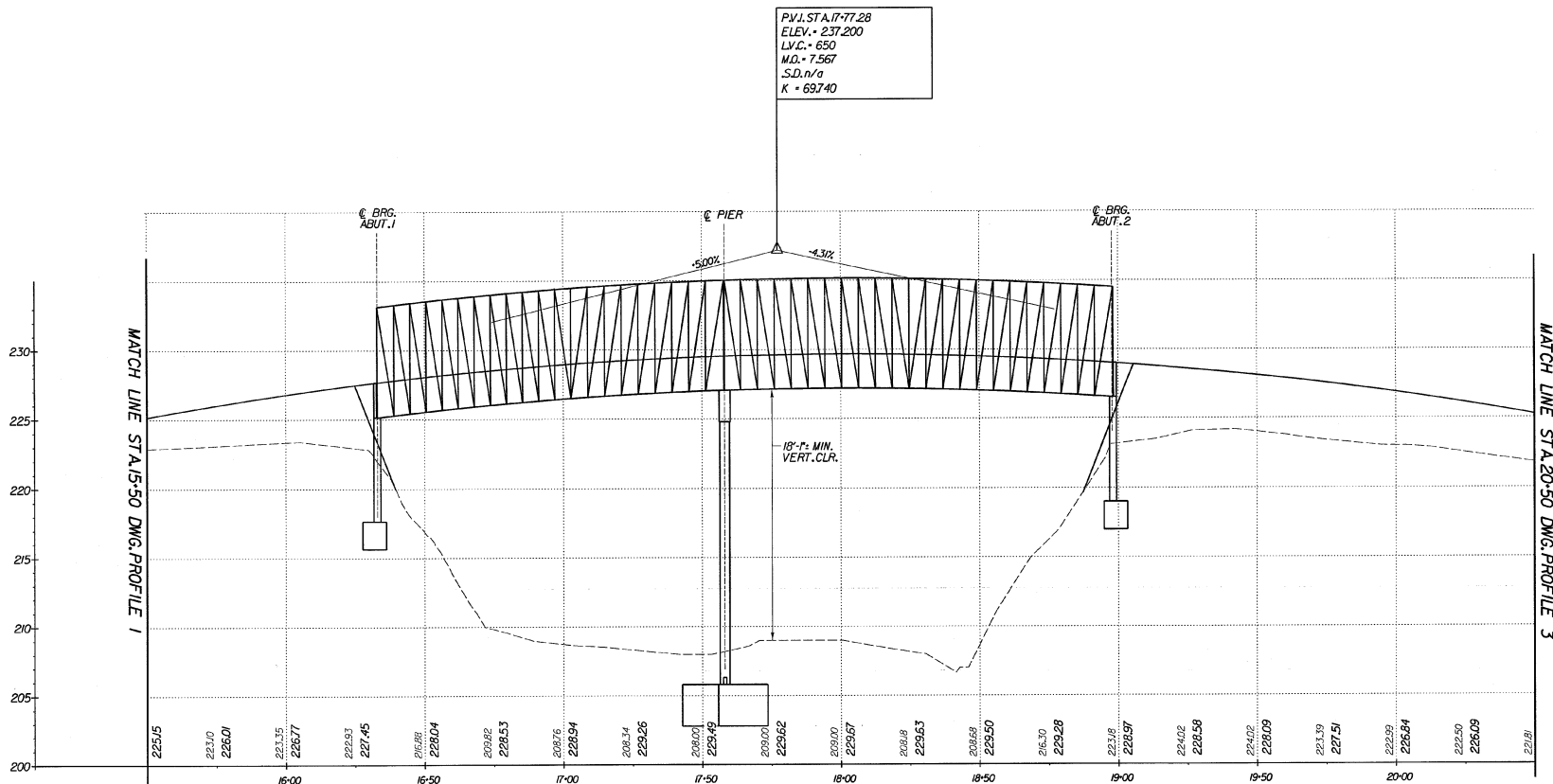
ITEM NO.	ITEM	UNIT	QUANTITY BREAKDOWN (SEE SHEET 10 FOR PROJECT UNITS)							PROJECT TOTAL	FINAL
			STP EH 99(B)			IM-089-3(3.3)					
			ROADWAY	EROSION	TOTAL	BRIDGE	EROSION	FULL E&C	TOTAL		
201J0	CLEARING AND GRUBBING	LS								1	
203J5	COMMON EXCAVATION	CY	230		230					230	
203J30	EARTH BORROW	CY	20		20					20	
203J40	FINE GRADING - SUBGRADE	SY	735		735	65			65	800	
204J25	STRUCTURE EXCAVATION	CY	366		366	654			654	1020	
204J30	GRANULAR BACKFILL FOR STRUCTURES	CY	221		221	397			397	618	
301J25	SUBBASE OF CRUSHED GRAVEL	CY	240		240					240	
501J22	CONCRETE, CLASS A	CY				21			21	21	
501J25	CONCRETE, CLASS B	CY				146			146	146	
505J36	TEMPORARY STEEL SHEET PILING	SF				1310			1310	1310	
507J7	EPOXY COATED REINFORCING STEEL	LB				14870			14870	14870	
514J0	WATER REPELLANT	GAL				10			10	10	
525J5	METAL HAND RAILING (MOD-2 x 6 PRESSURE TREATED TIMBER)	LF	810		810	110			110	920	
526J20	CONCRETE BIN TYPE RETAINING WALL (MOD A - SHIP 2 FOOT DEEP BLOCK)	SF				3000			3000	3000	
526J20	CONCRETE BIN TYPE RETAINING WALL (MOD B - SHIP 4 FOOT DEEP BLOCK)	SF				410			410	410	
526J20	CONCRETE BIN TYPE RETAINING WALL (MOD C - PLACE 2 FOOT DEEP BLOCK)	SF	3000		3000					3000	
526J20	CONCRETE BIN TYPE RETAINING WALL (MOD D - PLACE 4 FOOT DEEP BLOCK)	SF	410		410					410	
545J20	PREFABRICATED MULTI-MODAL BRIDGE (MOD)	LS				1			1	1	
618J5	BITUMINOUS CONCRETE SIDEWALK	TON	85		85	7			7	92	
620J1	CHAIN-LINK FENCE, 4 FEET	LF	1130		1130					1130	
620J20	BRACE ASSEMBLY FOR CHAIN-LINK FENCE, 4 FEET	EA	10		10					10	
620J25	WOVEN WIRE FENCE WITH STEEL POSTS	LF				50			50	50	
620J75	SNOW BARRIER (GALV)	LF				175			175	175	
621J5	REMOVING AND RESETTING GUARDRAIL (MOD-MODIFY POSTS)	LF				120			120	120	
621J90	TEMPORARY TRAFFIC BARRIER (CONCRETE MEDIAN BARRIER)	LF				240			240	240	
630J0	UNIFORMED TRAFFIC OFFICERS	HR	50		50	120			120	170	
630J5	FLAGGERS	HR	300		300	90			90	390	
631J6	TEST EQUIPMENT FOR CONCRETE	LS						1	1	1	
635J0	MOBILIZATION	LS	0.2		0.2	0.8			0.8	1	
641J0	TRAFFIC CONTROL	LS	0.5		0.5	0.5			0.5	1	
649J41	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	SY	520		520					520	
649J51	GEOTEXTILE FOR SILT FENCE	SY		397	397		43		43	440	
650J5	SEED	LB		45	45		5		5	50	
651J8	FERTILIZER	LB		415	415		45		45	460	
651J25	HAY MULCH	TON		1	1		0.1		0.1	1.1	
651J26	HAY BALES FOR EROSION CONTROL	EA		300	300		30		30	330	
651J35	TOPSOIL	CY	30		30					30	
* 613J0	STONE FILL, TYPE 1	CY	30		30					30	
* 616J28	CAST-IN-PLACE CONCRETE CURB, TYPE B	FT	20		20					20	
* 616J41	REMOVAL OF EXISTING CURB	FT	20		20					20	
* 618J0	PORTLAND CEMENT CONCRETE SIDEWALK 5 IN.	SY	10		10					10	
* 654J0	EROSION MATTING	SF	90		90					90	
615J32	TRAFFIC SIGNS (TYPE A)	SF	12		12						
615J32	PLUNGED CHANNEL SIGN POSTS	LB	150		150						
* ITEMS NOT IN ORDER											
BRIDGES(S) AT STATION(S) STA. 16+34.53			PREPARED BY: B.A.S.YAL	CHECKED BY:		PROJECT: COLCHESTER		PROJECT NO: IM-089-3(3.3) & STP EH 99(B)			
LOCATION(S) BLAKLEY RD. PEDESTRIAN BRIDGE OVER I-89			SUPERVISOR: M.W. OLSTAD		BR OF		SHEET NO: 3 OF 23				



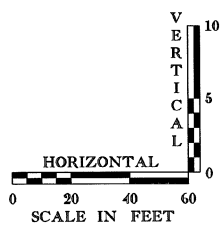
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
PROFILE I			
Designed By D. STECIAK		Drawn by K. DETRICK	
Checked By	Date	Bridge Design Supervisor	Date
M. OLSTAD	7/2001	M. OLSTAD	7/2001
PROJECT COLCHESTER		PROJECT NO. MP-089-3/331 TP-CH 998	

LG.C. Info.	
Bridge Sheet No.	Sheet 7 OF 23



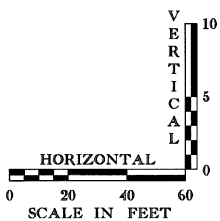
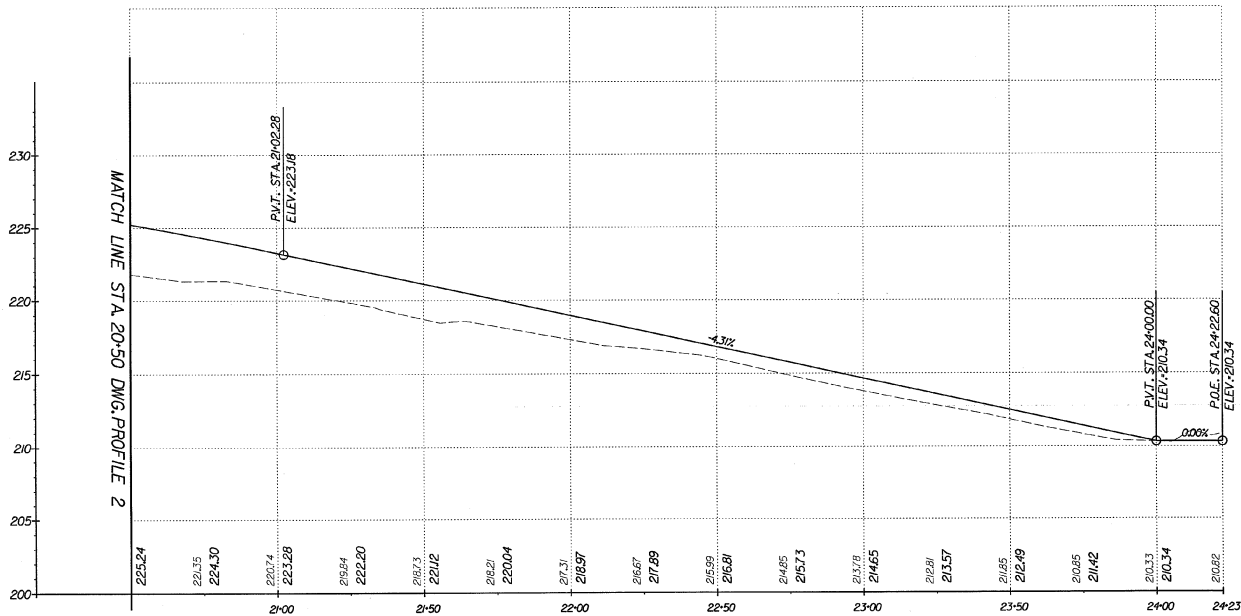
PROFILE



STATE OF VERMONT AGENCY OF TRANSPORTATION

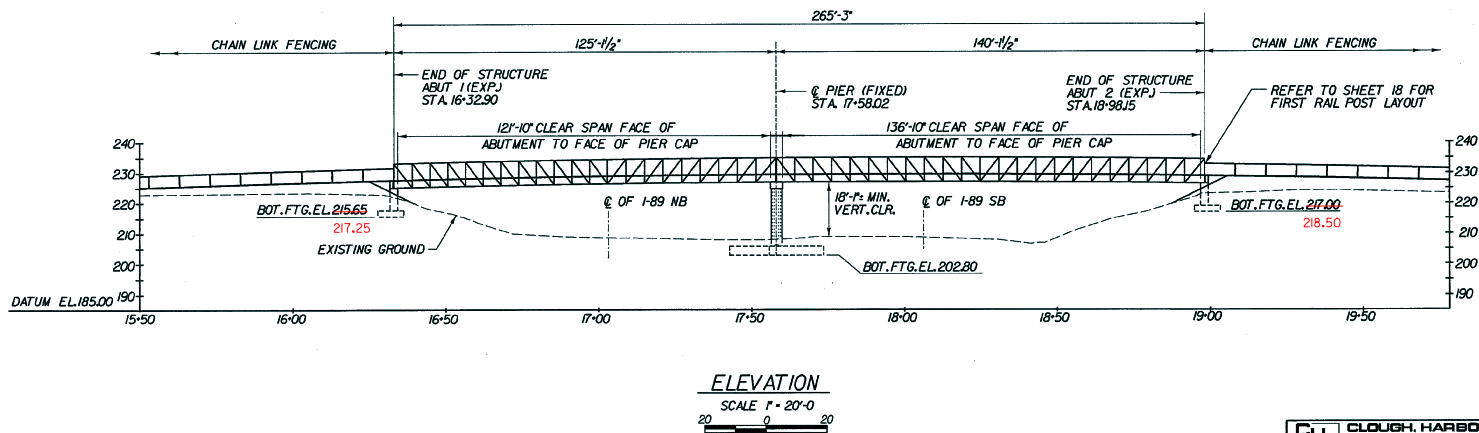
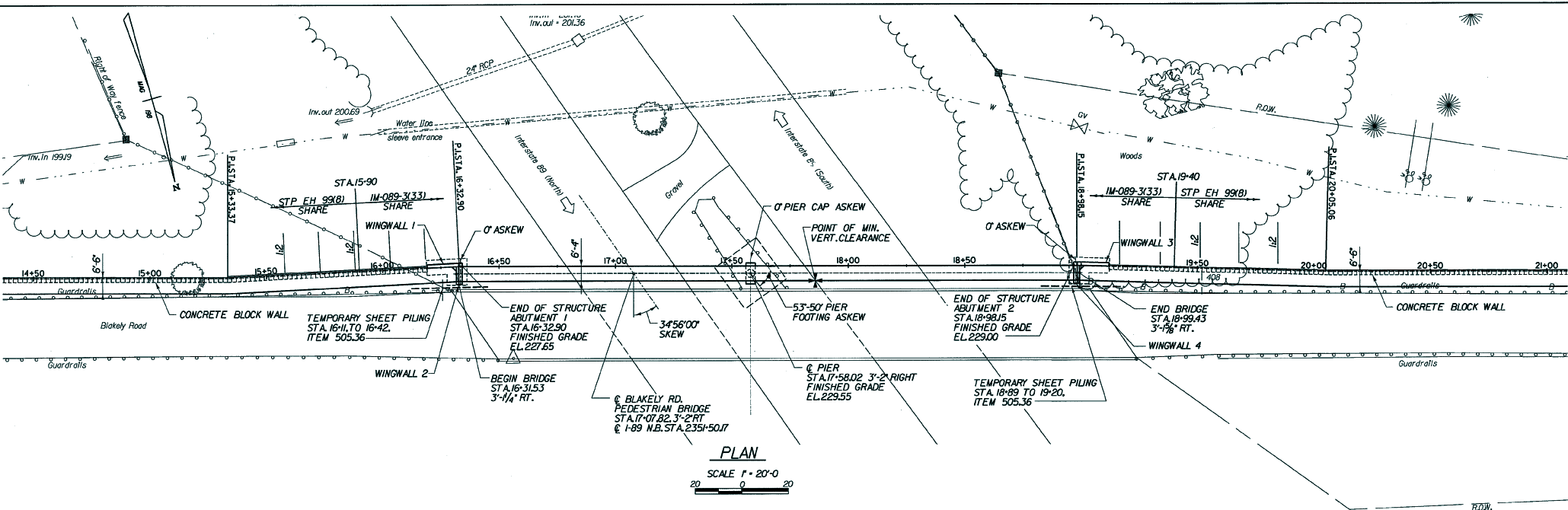
Town Of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
Project	BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89	Surv. Sta.	
PROFILE 2			
Designed By	D. STECIAK	Drawn by	K. DETRICK/J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
Date	7/2001	Date	7/2001
PROJECT	COLCHESTER	PROJECT NO.	M-089-3(33)
			STP EH 99(8)
I.G.C. info.		Bridge Sheet No.	
		Sheet 8 OF 23	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, PLANNERS & LANDSCAPE ARCHITECTS
100 WATER STREET, SUITE 200, COLCHESTER, VT 05445



STATE OF VERMONT			
AGENCY OF TRANSPORTATION			
Town Of	COLCHESTER	Bridge No.	
Highway No.	1-89	Log Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
PROFILE 3			
Designed By	D. STECIAK	Drawn by	K. DETRICK
Checked By	M. OLSTAD	Date	7/2001
PROJECT	COLCHESTER	Bridge Design Supervisor	M. OLSTAD
		Date	7/2001
		PROJECT NO.	84-089-3(33)
		STP. EX.	996B
L.G.C. Info.			
Bridge Sheet No.		Sheet 9 OF 23	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
BIRMINGHAM, OHIO ALBANY, NEW YORK, 2001



STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
PLAN AND ELEVATION			
Designed By	D. STECIK	Drawn By	K. DETRICK
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
PROJECT	COLCHESTER	PROJECT NO.	IM-089-3433
		STP. EH. 5908	
U.G.C. Info.			
Bridge Sheet No.			
Sheet 10 OF 23			

CLOUGH, HARBOUR & ASSOCIATES LLP
 ENGINEERS, SURVEYORS, PLANNERS
 & LANDSCAPE ARCHITECTS
 100 MARKET STREET, SUITE 200
 COLCHESTER, VERMONT 05732

SOIL CLASSIFICATION

ASHSTO	DESCRIPTION	ROCK	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
A1	Gravel and Sand				
A2	Silty or Clayey Gravel and Sand				
A4	Silty Soil - Low Compressibility				
A5	Silty Soil - High Compressibility				
A6	Clayey Soil - Low Compressibility				
A7	Clayey Soil - Highly Compressible				

ROCK	DESCRIPTION	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
A1	Gravel and Sand			
A2	Silty or Clayey Gravel and Sand			
A4	Silty Soil - Low Compressibility			
A5	Silty Soil - High Compressibility			
A6	Clayey Soil - Low Compressibility			
A7	Clayey Soil - Highly Compressible			

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

COMMONLY USED SYMBOLS

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

TO DENSITY/CONSISTENCY	CONSISTENCY	UNWEALED SHEAR STRENGTH	ROCK QUALITY DESIGNATION
>50	Very Dense		
25-50	Dense		
15-25	Med. Dense		
5-15	Loose		
<5	Very Loose		

NO.	SURV.	STATION	OFFSET	GROUND ELEV.	TLOB
B-1	10+83.	21 LT	204.36		

NO.	SURV.	STATION	OFFSET	GROUND ELEV.	TLOB
B-1	10+83.	21 LT	204.36		

NO.	SURV.	STATION	OFFSET	GROUND ELEV.	TLOB
B-1	10+83.	21 LT	204.36		

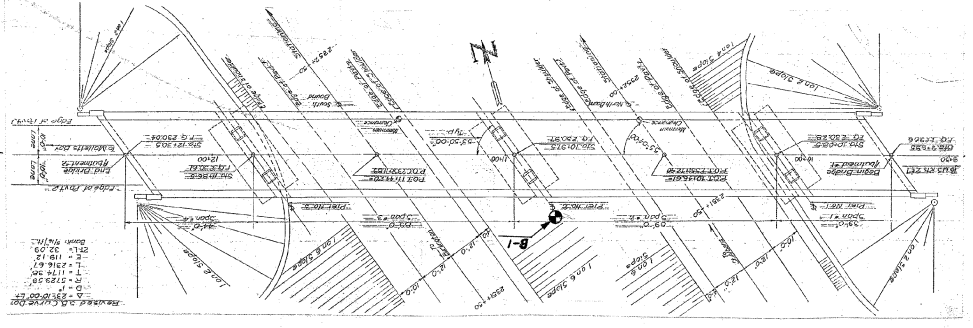
NO.	SURV.	STATION	OFFSET	GROUND ELEV.	TLOB
B-1	10+83.	21 LT	204.36		

GENERAL NOTES

STATIONING IS BASED ON BLAKEY ROAD 1960 PLANS OF RECORD. THIS IS APPROXIMATE TO NEW STRUCTURE 17+55, +/- RIGHT 4 FT.

SCALE 1" = 20'-0"

PLAN



SECTION

SECTION 17+55

SECTION 17+55

SECTION 17+55

SECTION 17+55

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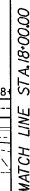
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: COLCHESTER SITE NAME: BR 75 STATION: 10+83.50 GROUND EL.: 204.36					PROJECT NUMBER: IM089-3(33) SITE NO.: Blakely Rd. OFFSET: -20.00 G.W. DEPTH: 15.2				
BORING CREW CREW CHIEF: YOUNG DRILLER: YOUNG LOGGER: SOMERS					BORING RIG: SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, Sa, brn, Moist, Rec. = 1.6'	12	14.6	2.5	78.1	19.4		
5		A-2-4, SiSa, brn, Moist, Rec. = 1.7'	10	20.2	1	76.9	22.1		
		A-2-4, SiSa, brn, MTW, Rec. = 1.15'	13	25.7	0.8	70.8	28.4		
		A-4, SaSi, gry-brn, MTW, Rec. = 1.7'	17	29.6		45.7	54.3		
10		A-4, SaSi, Lt/gry, MTW, Rec. = 1.7'	7	29.3	0.2	20.1	79.7		
		A-4, SaSi, Lt/gry, MTW, Rec. = 1.6'	4	29.7		24.9	75.1		
15		A-4, SaSi, Lt/gry, MTW, Rec. = 1.5'	4	27.2	VISUAL	CLASSIF	CATION		
		A-4, Si, gry, MTW, Rec. = 0.8'	5	26.9	VISUAL	CLASSIF	CATION		
		A-4, SaSi, gry, MTW, Rec. = 0.8'	28.2	VISUAL	CLASSIF	CATION			
		A-4, Si, gry, MTW, Rec. = 1.5'	8	28.6	VISUAL	CLASSIF	CATION		
20		A-4, Si, gry, MTW, Rec. = 1.7'	5	26.2	VISUAL	CLASSIF	CATION		
		A-4, Si, gry, MTW, Rec. = 1.5'	7	27.4	VISUAL	CLASSIF	CATION		
25		A-4, SaSi, gry, MTW, Rec. = 1.0'	2	27.7	VISUAL	CLASSIF	CATION		
		A-4, Si, gry, MTW, Rec. = 1.6'	8	27.1	VISUAL	CLASSIF	CATION		
		A-4, Si, gry, MTW, Rec. = 1.4'	3	27.3	VISUAL	CLASSIF	CATION		
30		A-4, Si, gry, MTW, Rec. = 1.9'	2	29.3	VISUAL	CLASSIF	CATION		
35		A-4, Si, gry, MTW, Rec. = 1.9'	2	29.4	VISUAL	CLASSIF	CATION		
40		A-4, Si, gry, MTW, Rec. = 1.2'	3	32.3		0.8	99.2	31	6
45		A-4, Si, gry, MTW, Rec. = 2.0'	4	28.1		0.6	99.4		

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: COLCHESTER SITE NAME: BR 75 STATION: 10+83.50 GROUND EL.: 204.36					PROJECT NUMBER: IM089-3(33) SITE NO.: Blakely Rd. OFFSET: -20.00 G.W. DEPTH: 15.2				
BORING CREW CREW CHIEF: YOUNG DRILLER: YOUNG LOGGER: SOMERS					BORING RIG: SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-4, Si, gry, MTW, Rec. = 2.0'	1	30.7		1.2	98.8		
55		A-4, Si, gry, MTW, Rec. = 2.0'	5	30.4		3.8	96.2	29	6
60		A-4, Si, gry, MTW, Rec. = 2.0'	7	30.2	0.3	4.1	95.6	28	6
65		A-4, Si, gry, MTW, Rec. = 2.0'	3	27.5	0.3	2.8	96.9	28	6
70		A-4, Si, gry, MTW, Rec. = 2.0'	5	29	0.1	0.9	99		
75		A-3, Sa, brn, MTW, Rec. = 2.0'	7	21.9	0.1	93.6	6.3		
80		A-4, Si, gry, MTW, Rec. = 2.0'	WH	29.8		0.4	99.6		
85		A-4, Si, gry, MTW, Rec. = 1.2'	8	28.1		1.1	98.9		
90		A-4, Si, gry, MTW, Rec. = 1.7'	8	26.3	0.3	2.8	96.9		
95		A-4, Si, gry, MTW, Rec. = 1.5'	9	27.3	0.6	2.3	97.1		

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: COLCHESTER SITE NAME: BR 75 STATION: 10+83.50 GROUND EL.: 204.36					PROJECT NUMBER: IM089-3(33) SITE NO.: Blakely Rd. OFFSET: -20.00 G.W. DEPTH: 15.2				
BORING CREW CREW CHIEF: YOUNG DRILLER: YOUNG LOGGER: SOMERS					BORING RIG: SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-4, Si, gry, MTW, Rec. = 0.9'	6	27.1		1.3	98.7		
105		A-4, Si, gry, MTW, Rec. = 1.1'	5	27		0.9	99.1		
110		A-2-4, SiSa, brn-gry, Moist, Rec. = 0.3'	27	18.4	1	70.7	28.3		
115		A-4, SaSi, gry, MTW, Rec. = 1.1'	36	26	0.1	22	77.9		
120		A-4, Si, gry, MTW, Rec. = 1.1'	14	25.3		2.8	97.2		
125		A-4, Si, gry, MTW, Rec. = 1.5'	12	26.3		0.6	99.4		
130		A-4, Si, gry, MTW, Rec. = 1.1'	23	22.5		5.2	94.8		
135		A-4, Si, gry, MTW, Rec. = 0.7'	24	27.7		3.4	96.6		
140		A-4, Si, gry, MTW, Rec. = 1.4'	31	28.7		3	97		
145									

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION									
PROJECT NAME: COLCHESTER SITE NAME: BR 75 STATION: 10+83.50 GROUND EL.: 204.36					PROJECT NUMBER: IM089-3(33) SITE NO.: Blakely Rd. OFFSET: -20.00 G.W. DEPTH: 15.2				
BORING CREW CREW CHIEF: YOUNG DRILLER: YOUNG LOGGER: SOMERS					BORING RIG: SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL				
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-4, Si, gry, MTW, Rec. = 2.0'	21	27.7		1.7	98.3		
Hole stopped @ 152.0'									
Drillers Notes: Water @ 15.2' below ground surface 04/16/01.									
155									
160									
165									
170									
175									
180									
185									
190									
195									

SURVEYED BY: J. TOUCHETTE DATE: 05/01/01
 DRAWN BY: C.C. BENDA
 SQUAD LEADER: g/str6/colch-sher/ma324bor.dgn
 DESIGN FILE NO.: ma324bor. DATE PLOTTED: 28-NOV-2001
 PROJ. NAME: COLCHESTER
 PROJ. NO.: IM089-3(33)
 SHEET 10B OF 23 SHEETS



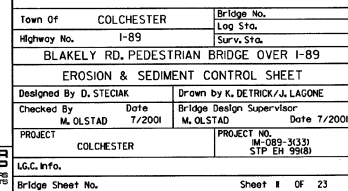
MATCH LINE STA 18+00.00

NAME = us\9916\mstr
TIME = 09/24/2001
USER = 004

 HAY BALES FOR EROSION CONTROL, ITEM 651.26
x—x— GOETEXTILE FOR SILT FENCE - ITEM 649.51

1. ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS POSSIBLE AFTER FINAL GRADING.
2. ALL HAY BALES SHALL REMAIN IN PLACE UNTIL NEW TURF IS ESTABLISHED.

SCALE 1" = 20'-0"



GENERAL NOTES:

THE FOLLOWING GENERAL NOTES SHALL APPLY UNLESS OTHERWISE NOTED ON THE PLANS.

1. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" 1990 EDITION AND ITS LATEST REVISIONS, AND AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" 18th EDITION AND ITS LATEST REVISIONS.
2. DESIGN LIVE LOADING IS TO BE APPLIED IN ACCORDANCE WITH THE PROVISIONS OF THE AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, AUGUST 1997, AND FOR SNOW REMOVAL TRACTOR OF THE FOLLOWING SPECIFICATIONS:
TOTAL LENGTH 106"
TOTAL WIDTH 48"
WHEEL BASE 63"
TOTAL WEIGHT 4300 LBS (INCLUDING SNOW BLOWER)
3. ANY REFERENCE TO "LEFT" AND/OR "RIGHT" ON THE PLANS OR IN THE NOTES REFER TO THE DIRECTION OF STATIONING.
4. THE FOLLOWING TABLE OF DESIGN STRENGTHS APPLIES TO THESE PLANS FOR DESIGN PURPOSES.

CONCRETE: $f'_c = 3,500$ PSI
STRUCTURAL STEEL: AASHTO M270, GR50W, $F_y = 50,000$ PSI
REINFORCING STEEL: $F_y = 60,000$ PSI (GRADE 60)
5. ALL WELDING AND DIMENSIONAL TOLERANCES OF WELDED MEMBERS SHALL CONFORM TO THE LATEST ANSI/AASHTO/AWS BRIDGE WELDING CODE AND ITS LATEST REVISIONS.
6. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE.
7. REINFORCEMENT PLACING TOLERANCES SHALL BE:
SPACING $\pm 1"$
CLEARING $\pm 1/4"$
8. MINIMUM COVER FOR REINFORCING STEEL (EXCEPT IN THE DECK) SHALL BE 2" IN BACK FACES OF SUBSTRUCTURES AGAINST EARTH, 4" IN PIER COLUMNS AND CAP BEAMS, AND 3" ELSEWHERE, UNLESS OTHERWISE SHOWN.
9. FLAME CUTTING OF EPOXY COATED REINFORCING STEEL SHALL NOT BE PERMITTED.
10. ALL EXPOSED EDGES OF CONCRETE IN THE SUBSTRUCTURE AND THE SUPERSTRUCTURE SHALL BE CHAMFERED $1 \times 1"$, UNLESS OTHERWISE SHOWN.
11. IN ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS, SHEAR KEYS SHALL BE FORMED AS SHOWN IN THE TYPICAL BRIDGE DETAILS SHEET 17, AND THEY SHALL BE CONTINUED UP TO 3' FROM EACH END OF THE JOINT. THE UPWARD KEY SHALL BE PLACED INTEGRAL WITH THE CONCRETE BELOW THE JOINT.
12. HORIZONTAL AND VERTICAL CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF JOINT.
13. THE COST OF INSTALLING PVC WATERSTOPS, AS SHOWN IN THE PLANS, SHALL BE SUBSIDIARY ITEM 501.25, "CONCRETE CLASS B". THE TYPE OF PVC WATERSTOP TO BE USED SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL.
14. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE PLACEMENT OF SILT FENCE AND HAY BALES AS DEPICTED ON THE EROSION AND SEDIMENT CONTROL SHEET OR AS DIRECTED BY THE ENGINEER.
15. THE CONTRACTOR SHALL CALL "DIG-SAFE" PRIOR TO PERFORMING ANY EXCAVATION, IN ACCORDANCE WITH DIG-SAFE'S RULES OF NOTIFICATION. THE COST OF COORDINATING WITH DIG-SAFE AND THE FOLLOWING UTILITY COMPANIES SHALL BE SUBSIDIARY TO ITEM 635.10, "MOBILIZATION": BELL ATLANTIC, GREEN MOUNTAIN POWER CORP. AND NOVA CABLE. THE COST OF ANY EXPLORATORY EXCAVATION BY THE CONTRACTOR TO ASCERTAIN UTILITY LOCATIONS SHALL BE PAID FOR UNDER ITEM 204.25, "STRUCTURE EXCAVATION IN ACCORDANCE WITH THE SPECIAL PROVISIONS. ANY DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AS DIRECTED BY THE RESPECTIVE UTILITY COMPANY TO THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
16. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
17. JOINTS AND SCORE MARKS SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
18. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GR 50W (UNPAINTED) EXCEPT AS NOTED ON THE PLANS. 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).
19. DECK CONCRETE SHALL BE "CONCRETE CLASS A". ALL OTHER CONCRETE SHALL BE "CONCRETE CLASS B". 3/4" INCH STONE SHALL BE USED AS THE COARSE AGGREGATE IN THE CONCRETE, CLASS B, USED IN THE PIER PLACEMENT.
20. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL WITH A CONSTRUCTION TOLERANCE OF 0.005 RADIAN. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED $1/4"$ PER FOOT. ABUTMENT SEATS SHALL BE SLOPED FULL WIDTH TOWARD CENTER SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTH STEEL TROWEL FINISHED.
21. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES F.

FOUNDATION:

22. SPREAD FOOTING SHALL BE CONSTRUCTED ON A 1'-0" THICK MAT OF GRANULAR BACKFILL FOR STRUCTURES, ITEM 204.30.
23. GRANULAR BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY.
24. TEMPORARY STEEL SHEET PILING TO BE DESIGNED BY CONTRACTOR.

SURVEY INFORMATION:

25. THESE PLANS ARE BASED ON THE ORIGINAL BLAKELY ROAD BRIDGE DRAWINGS AND A RECENT SURVEY SUPPLIED TO THE V.A.O.T. BY OTHERS. PERTINENT INFORMATION, SUCH AS R.O.W. LINES AND SITE ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK. THE LOCATION OF THE EXISTING BLAKELY ROAD PIER 2 FOOTING IS TO BE FIELD VERIFIED BEFORE LAYING OUT SUBSTRUCTURES.

TRAFFIC CONTROL:

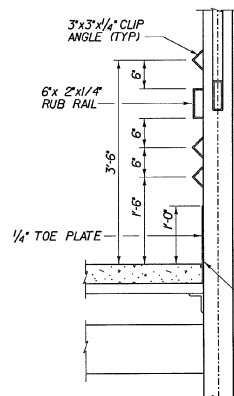
26. TRAFFIC IS TO BE CONTROLLED AND MAINTAINED AT ALL TIMES PER THE APPLICABLE V.A.O.T. SPECIFICATIONS IN ITEM 527.10, SECTION 104.04, AND THE STANDARD SHEETS LISTED ON THE TITLE SHEET.
27. THE COST OF ARROW BOARDS OR CHANGEABLE MESSAGE SIGNS IS TO BE INCLUDED IN THE TRAFFIC CONTROL, ITEM 641.0.

MISCELLANEOUS:

28. GALVANIZED COATED CHAIN LINK FENCE - ITEM 620.11 IS TO BE ERECTED ON THE PEDESTRIAN BRIDGE WINDWALLS AND THE CONCRETE BIN TYPE RETAINING WALLS, SNOW BARRIER (GALV.). ITEM 620.75 SHALL BE USED TO EXTEND THE EXISTING SNOW BARRIER ON THE SOUTH SIDE OF BLAKELY ROAD BRIDGE, OVER THE BRIDGES FULL LENGTH.

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	
		Log Sta.	
Highway No.	I-89	Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
GENERAL NOTES			
Designed By		Drawn by K. DETRICK	
Checked By	Date	Bridge Design Supervisor	Date
M. OLSTAD	7/2001	M. OLSTAD	7/2001
PROJECT		PROJECT NO.	
		84-089-1(133)	
		STP EN 9988	
U.G.C. Info.			
Bridge Sheet No.		Sheet 12 OF 23	



TYPICAL RAIL DETAIL



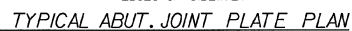
TOP OF PIER ELEVATION SET ON ASSUMPTION THAT TOP OF DECK TO BOTTOM OF PREFABRICATED PEDESTRIAN BRIDGE BEARINGS IS 2'-6". ELEVATION IS TO BE SET BY THE CONTRACTOR TO FIT ACTUAL BRIDGE SUPPLIED BY ADJUSTING COLUMN HEIGHT.



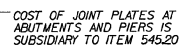
^x NOTE:

SEAT ELEVATION SET ON ASSUMPTION THAT TOP OF DECK TO BOTTOM OF PREFABRICATED PEDESTRIAN BRIDGE BEARINGS IS 2'-6". ELEVATION IS TO BE SET BY THE CONTRACTOR TO FIT ACTUAL BRIDGE SUPPLIED BY ADJUSTING SEAT ELEVATION. CENTERLINE OF BEARINGS TO BE SET BY CONTRACTOR ALSO.

NOTE: REACTIONS ARE PER BEARING



(TYPICAL AT EACH ABUTMENT)

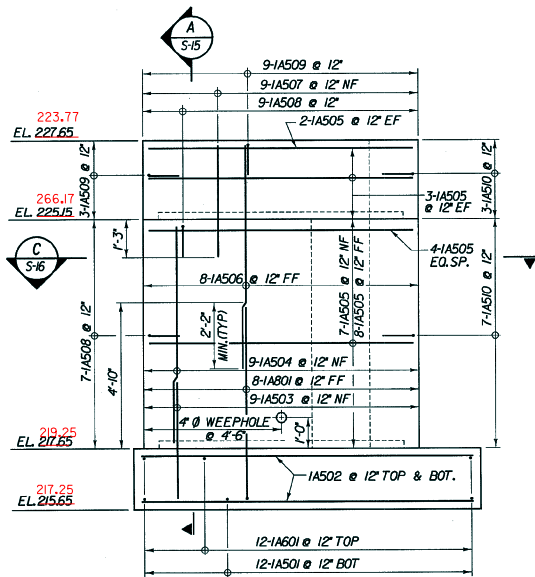


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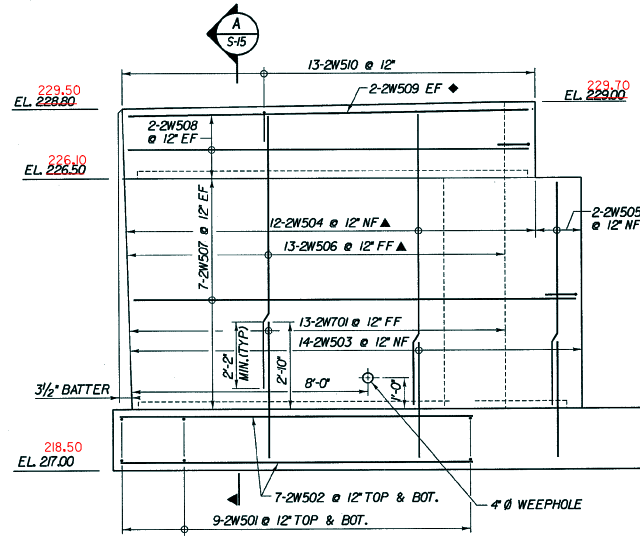
Town of COLCHESTER		Bridge No. Log 516	
Highway No. I-89		Surv. Sta.	
BLAKELY RD, PEDESTRIAN BRIDGE OVER I-89			
TYPICAL BRIDGE DETAILS			
Designed By D. STECIAK		Drawn by J. LAGONE	
Checked By	Date	Bridge Design Supervisor	Date
M. OLSTAD	7/2001	M. OLSTAD	7/2001
PROJECT COLCHESTER		PROJECT NO. M-089-3133 STP EH 9981	
L&C, Info.			
Bridge Sheet No.		Sheet 13 OF 23	

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DATE/TIME: 08/24/2001
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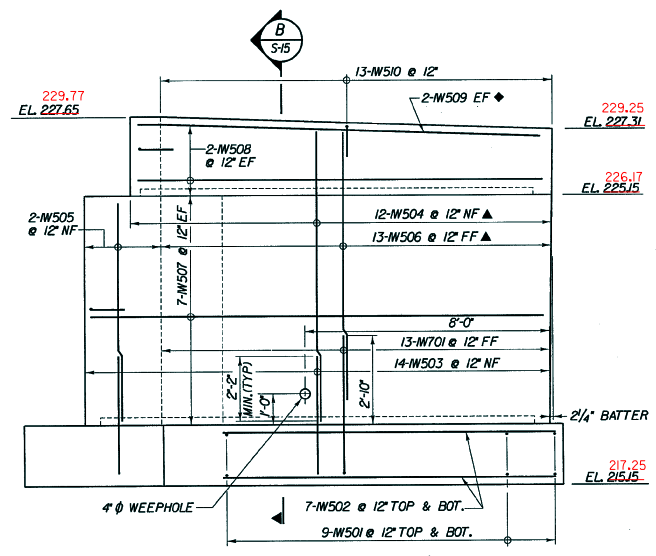
ELEVATION - ABUTMENT 1

SCALE 1/2" = 1'-0"



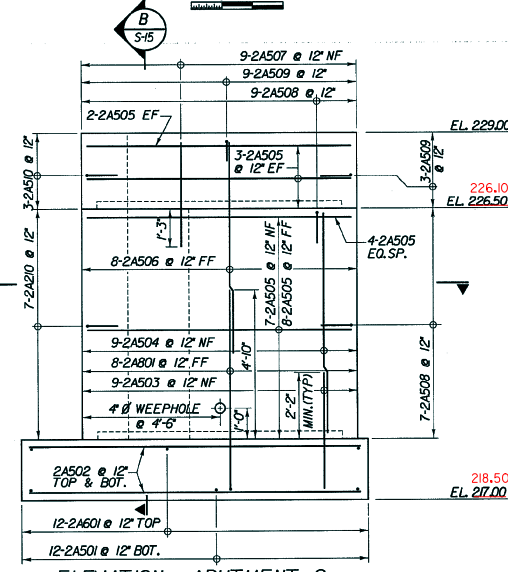
ELEVATION - WINGWALL 3

SCALE 1/2" = 1'-0"



ELEVATION - WINGWALL 1

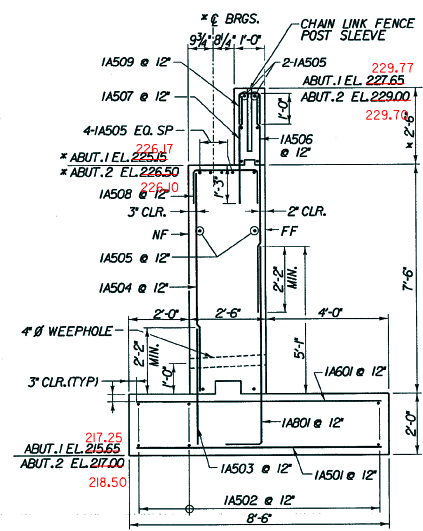
SCALE 1/2" = 1'-0"



ELEVATION - ABUTMENT 2

SCALE 1/2" = 1'-0"

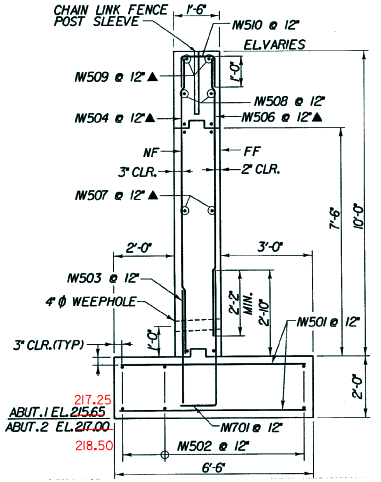
*-ASSUMED TOP OF DECK TO BOTTOM OF PREFABRICATED PEDESTRIAN BRIDGE BEARINGS. DIMENSIONS AND SEAT ELEVATIONS ARE TO BE ADJUSTED BY CONTRACTOR TO FIT ACTUAL BRIDGE SUPPLIED.



(A) TYPICAL ABUTMENT SECTION

(ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR)

SCALE 1/2" = 1'-0"



(B) TYPICAL WINGWALL SECTION

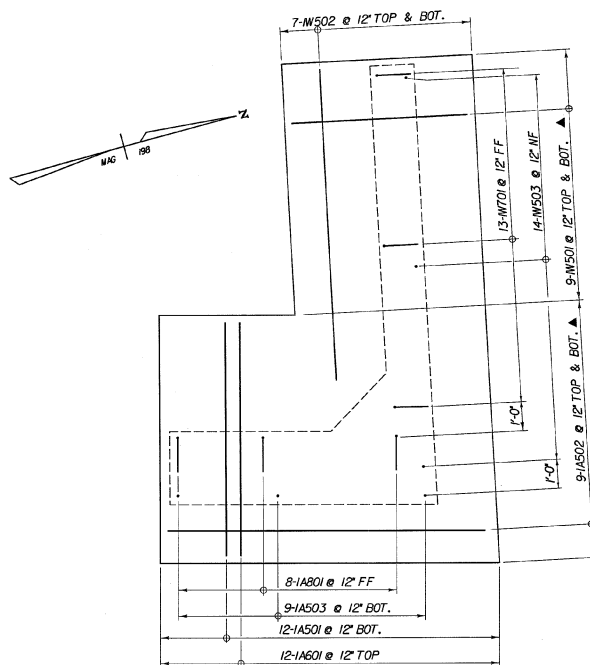
(WINGWALL 1 SHOWN, WINGWALL 2 SIMILAR)

SCALE 1/2" = 1'-0"

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

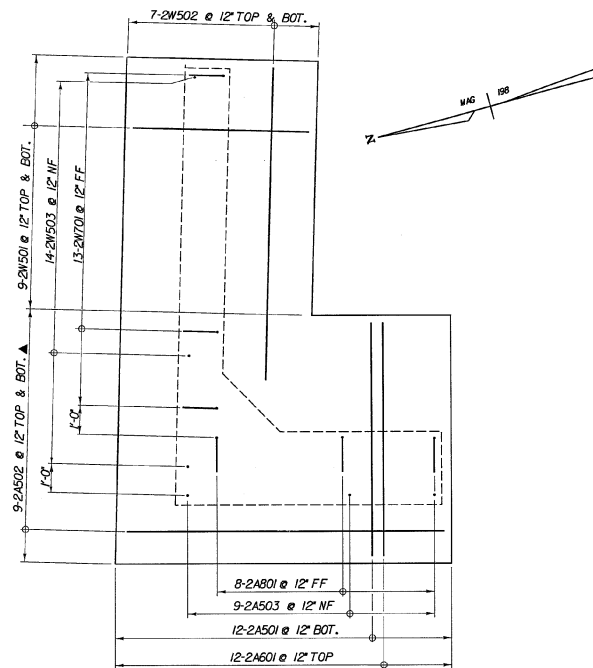
CHA CLOUGH, HARBOUR & ASSOCIATES LLP
 CIVIL ENGINEERS, ARCHITECTS, PLANNERS
 25 LANSING AVENUE, SUITE 200
 ALBANY, NEW YORK 12207

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
ABUTMENTS, WINGWALLS I&3 ELEVATIONS & SECTIONS			
Designed By	D. STECIAK	Drawn by	K. DETRICK/J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
Date	7/2001	Date	7/2001
PROJECT	COLCHESTER	PROJECT NO.	18-089-3(33)
		STP	EH 99(8)
L.C.C. Info.		Sheet 15 OF 23	



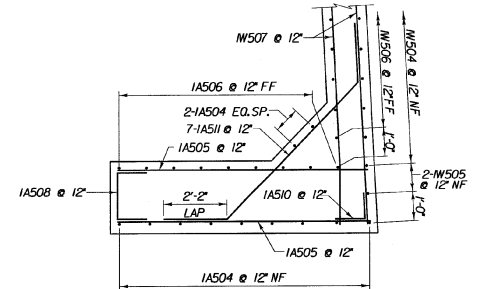
ABUTMENT 1 FOOTING REINFORCING PLAN

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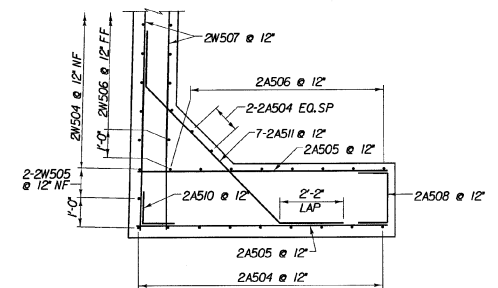
ABUTMENT 2 FOOTING REINFORCING PLAN

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



C ABUT.1 CORNER & FILLET DETAILS

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



C ABUT.2 CORNER & FILLET DETAILS

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

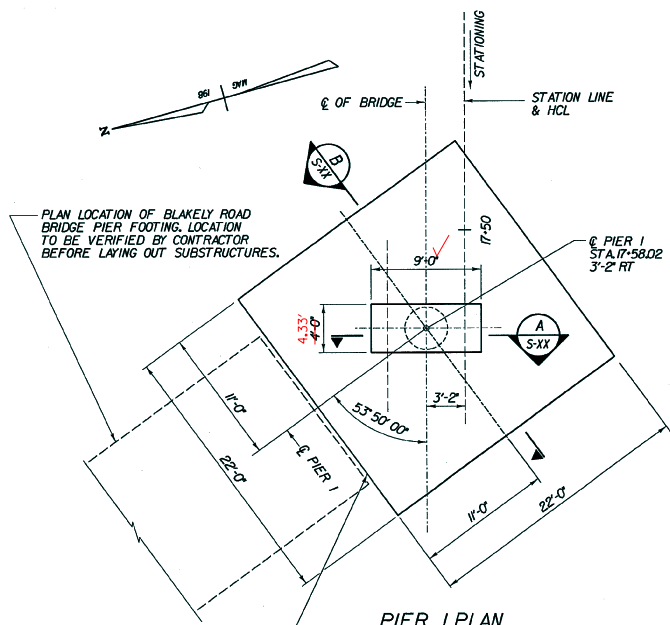
KEY:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" MINIMUM LAP (TYP)

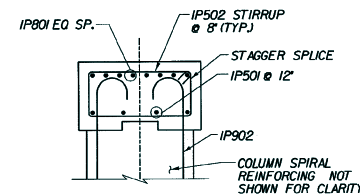
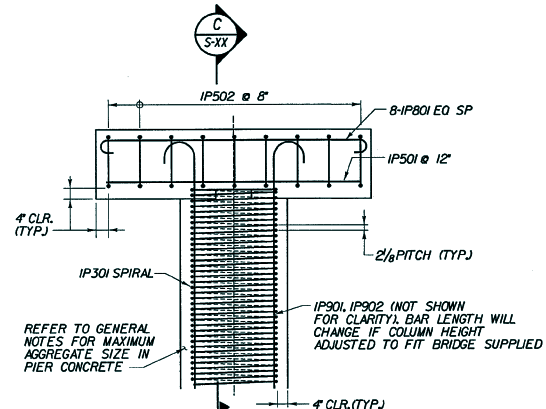
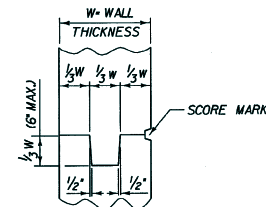
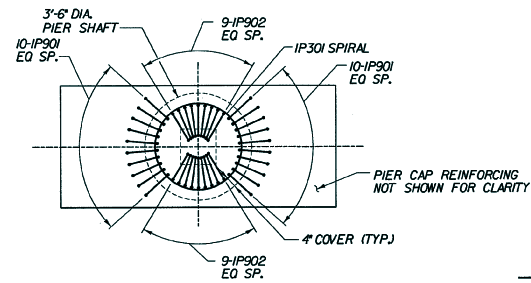
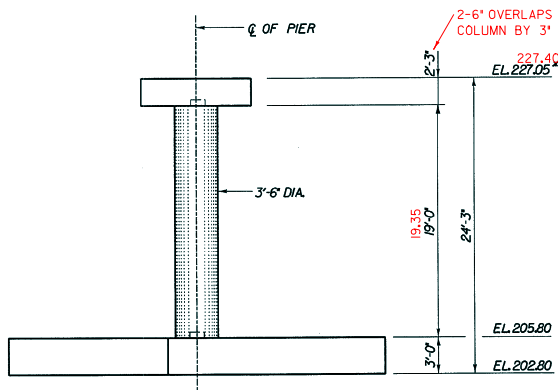
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	
Highway No.	1-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
ABUTMENT 1 & 2 FOOTING PLAN & DETAILS			
Designed By	D. STECIAK	Drawn by	K. DETRICK/J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
Date	7/2001	Date	7/2001
PROJECT	COLCHESTER	PROJECT NO.	14-009-3333
			S.T.P. EX 99(8)
LOGG. Info.		Bridge Sheet No.	

CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, ARCHITECTS, PLANNERS
& LANDSCAPE ARCHITECTS
400 WEST STREET, SUITE 200, COLCHESTER, VT 05445

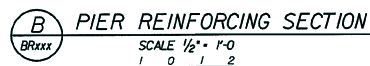
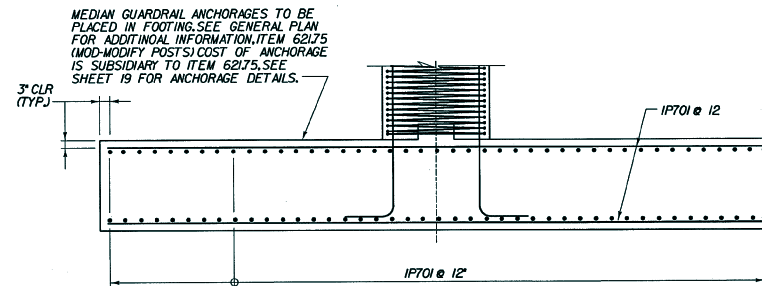


PLACE 1" THICK FOAM MATERIAL AGAINST EXISTING FOOTING TO ACT AS BOND BREAKER AND ALLOW FOR INDEPENDANT MOVEMENT ON THE THE FOOTINGS. COST TO BE INCLUDED IN ITEM 50125, CONCRETE, CLASS B



NOTE:
TOP OF PIER ELEVATION SET ON ASSUMPTION THAT TOP OF DECK TO BOTTOM OF PREFABRICATED PEDESTRIAN BRIDGE BEARINGS IS 2'-6". ELEVATION IS TO BE ADJUSTED BY THE CONTRACTOR TO FIT ACTUAL BRIDGE SUPPLIED BY ADJUSTING COLUMN HEIGHT.

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

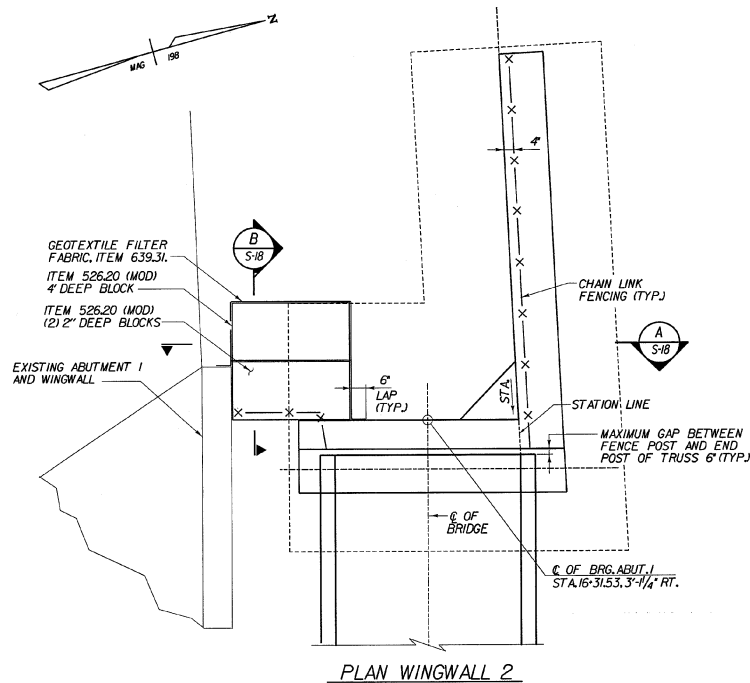


STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	COLCHESTER,	Bridge No.	
Highway No.	1-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER 1-89			
PIER ELEVATION AND REINFORCING DETAILS			
Designed By	D. STECIAK	Drawn by	J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
PROJECT	COLCHESTER	PROJECT NO.	M-089-3(33)
			STP EH 99(8)
L&C. Info.		Bridge Sheet No.	

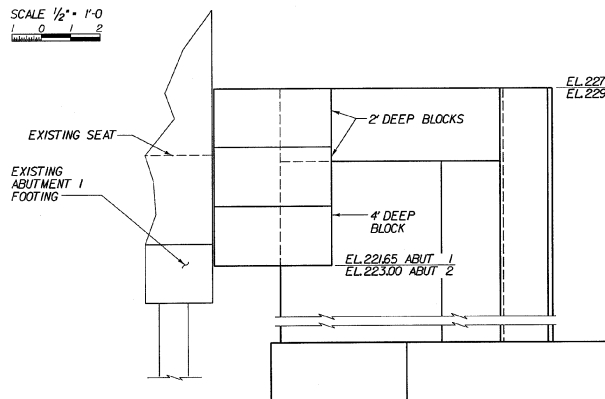
CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, PLANNERS, ARCHITECTS
& LANDSCAPE ARCHITECTS
100 WATER STREET, SUITE 200, VERMONT, VT 05401

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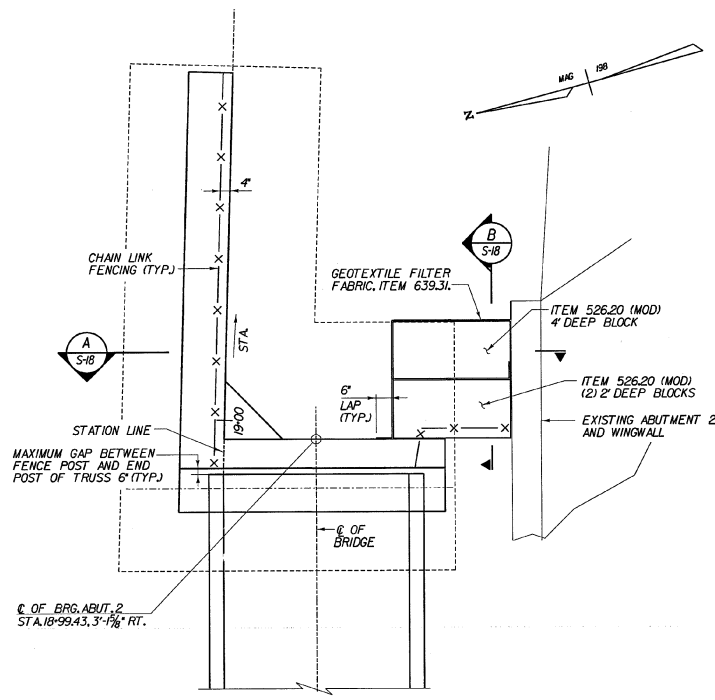


PLAN WINGWALL 2

SCALE 1/2" = 1'-0"
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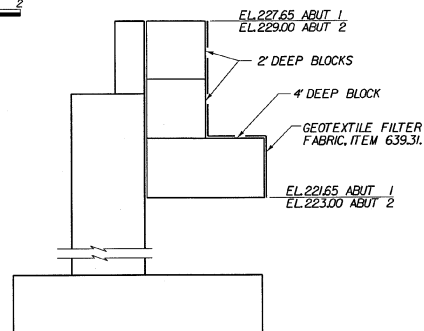


A
S-18
SECTION
(ABUTMENT 1 SHOWN, ABUT. 2 SIM.)
SCALE 1/2" = 1'-0"
1 0 1 2



PLAN WINGWALL 4

SCALE 1/2" = 1'-0"
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B
S-18
SECTION
(ABUTMENT 1 SHOWN, ABUT. 2 SIM.)
SCALE 1/2" = 1'-0"
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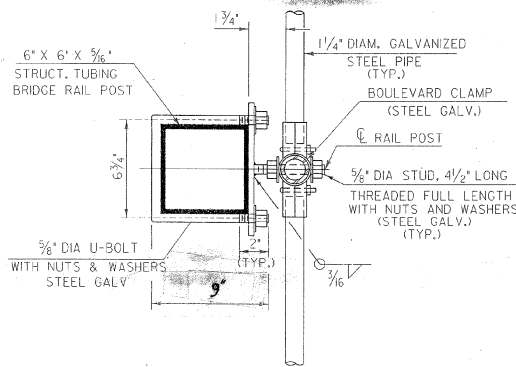
STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
WINGWALLS 2 & 4 PLAN AND SECTIONS			
Designed By	D. STECIAK	Drawn by	J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
PROJECT	COLCHESTER	PROJECT NO.	IM-089-3(33)
			STP EH 9989

U.C. Info. Sheet 18 OF 23

CHA CLOUGH, HARBOUR
& ASSOCIATES LLP
ENGINEERS, PLANNERS
& ARCHITECTS
HARRISON CIRCLE ALBANY, NEW YORK 12208

SNOW FENCE DETAILS



SECTION A-A

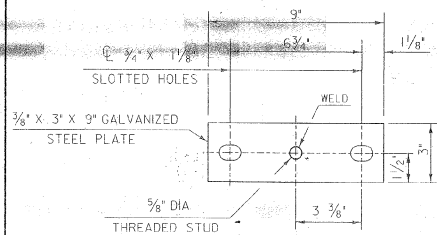
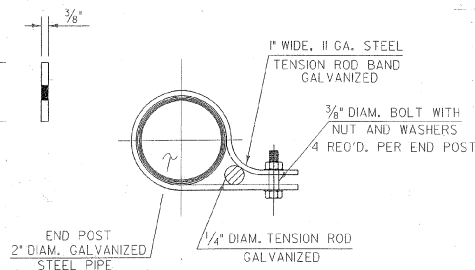
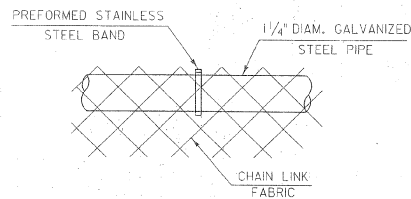


PLATE DETAILS

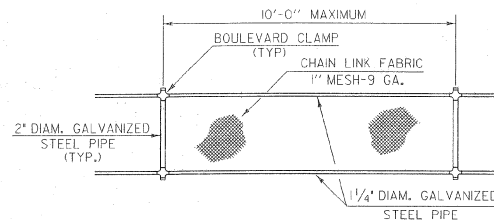
PLAN VIEW AT END POST



TENSION ROD BAND



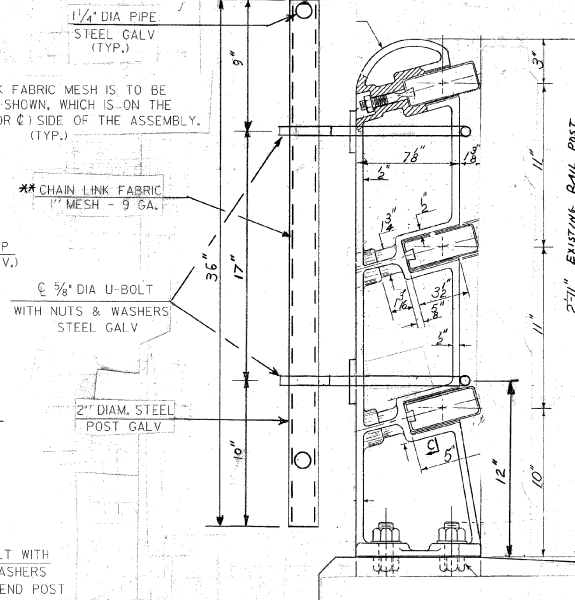
DETAIL A



ELEVATION SNOW BARRIER

DETAILS ON THIS SHEET NOT TO SCALE
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

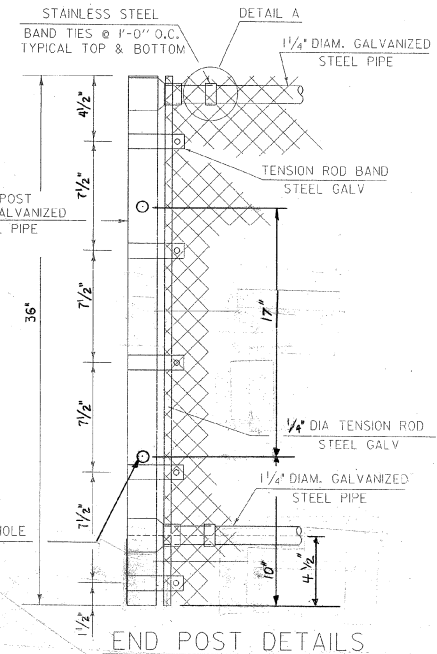
** THE CHAIN LINK FABRIC MESH IS TO BE INSTALLED AS SHOWN, WHICH IS ON THE BRIDGE RAIL (OR ϕ) SIDE OF THE ASSEMBLY. (TYP.)



TYPICAL SECTION

GENERAL NOTES

1. THREADS OF STUDS AND U-BOLTS TO BE 5/8"-11 UNC.
2. ALL CONNECTION PLATES TO BE GALVANIZED AFTER FABRICATION.
3. 1 1/4" PIPE LENGTH SHALL BE FIELD CUT TO FIT POST SPACING.
4. CHAIN LINK FABRIC TO BE KNUCKLED TOP AND BOTTOM.
5. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE SPECIFICATIONS FOR ASTM A307.
6. ALL STEEL PLATES SHALL CONFORM TO THE SPECIFICATION FOR AASHTO M-270 GRADE 36.
7. ALL GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-181 WITH HARDWARE AND FITTINGS CONFORMING TO THE REQUIREMENTS OF AASHTO M-113 OR AASHTO M-232 WHICHEVER IS APPLICABLE. ALL BOLTS, NUTS AND WASHERS SHALL BE EITHER HOT-DIP GALVANIZED IN ACCORDANCE WITH THE ABOVE AASHTO REQUIREMENTS OR MECHANICALLY GALVANIZED USING A MECHANICALLY DEPOSITED PROCESS CONFORMING TO THE REQUIREMENTS OF AASHTO M-298, CLASS 100.
8. GALVANIZED CHAIN-LINK FABRIC SHALL BE TYPE I (ZINC) CLASS D AS SPECIFIED IN AASHTO M-181.
9. SNOW BARRIER SHALL BEGIN AT THE BRIDGE RAIL POST WHICH WILL PROVIDE A MIN. DISTANCE OF 20' (AS SHOWN) OR AS DIRECTED BY THE ENGINEER.
10. ALL REFERENCES TO THE DIAMETERS OF GALVANIZED STEEL PIPE SHALL REFER TO THE OUTSIDE DIAMETER (O. D.).



ADDITIONAL NOTES

1. THE EXISTING BRIDGE RAIL IS 3 INCHES WIDE.
2. THE 5/8" DIAMETER U-BOLT IS DETAILED FOR SIX INCH WIDE POST. THE CONTRACTOR MAY DECREASE THIS FOR A 3 INCH WIDE POST.
3. SHOP DRAWINGS ARE TO BE SENT TO THE VTRANS STRUCTURES PROJECT MANAGER FOR REVIEW.

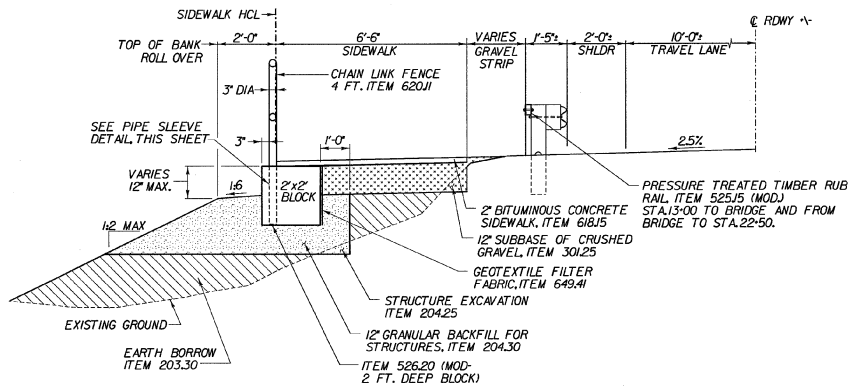
STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	75
Highway No.	BLAKELY ROAD	Surf. S70.	
INSTALLATION OF PERMANENT SNOW FENCE			
ON BRIDGES WITH CLEAR VIEW RAIL			
Designed By	G. Newbury	Drawn By	J. Gruchacz/D. Newton
Checked By		Date	
		Bridge Design Supervisor	S. FARNSWORTH
PROJECT	COLCHESTER	PROJECT NO.	IM 089-3(33)
I.G.C. Info.	/struct/str/snow fence		
Bridge Sheet No.	Sheet 19A of 23		

PLOTTED 11-JUL-1995

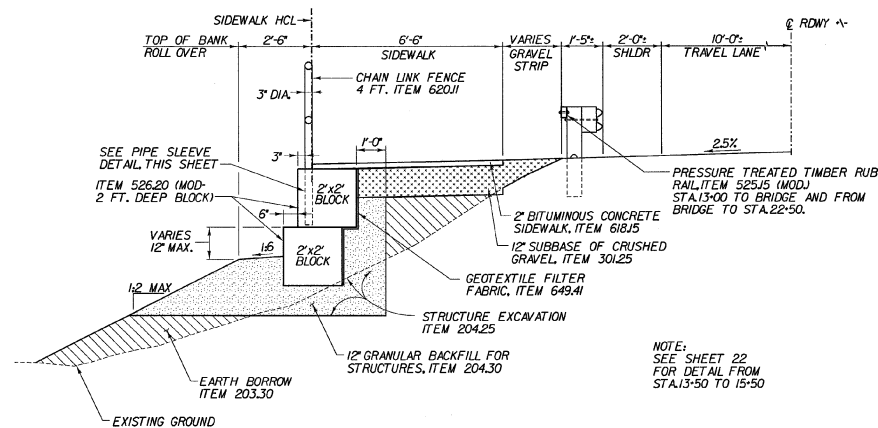
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1	ABUTMENT 1																		97																		
2	12	5	8-0	1450	STR														98																		
3	8	5	10-10	14502	STR														99																		
4	9	5	3-11	14503	STR														100																		
5	12	5	7-3	14504	STR														101																		
6	27	5	8-6	14505	STR														102																		
7	9	5	7-5 1/4	14506	STR														103																		
8	9	5	3-7 1/4	14507	STR														104																		
9	6	5	4-1	14508	SD														105																		
10	12	5	2-3	14509	SD														106																		
11	10	5	2-0	14510	SD														107																		
12	7	5	1-4 1/2	14511	SD														108																		
13	13	6	8-0	14512	STR														109																		
14	8	7	7-8 1/2	14513	STR														110																		
15	WINGWALL 1																		111																		
16	14	5	6-0	14514	STR														112																		
17	14	5	10-8 1/4	14515	STR														113																		
18	14	5	3-11	14516	STR														114																		
19	12	5	9-9	14517	STR														115																		
20	2	5	7-3	14518	STR														116																		
21	13	5	9-5 1/4	14519	STR														117																		
22	16	5	14-9 1/2	14520	STR														118																		
23	4	5	13-5 1/4	14521	STR														119																		
24	2	5	13-5 1/4	14522	STR														120																		
25	14	5	3-1	14523	SD														121																		
26	13	7	5-9	14524	STR														122																		
27	PIER 1																		123																		
28	4	5	8-4	14525	STR														124																		
29	14	5	10-8 1/4	14526	STR														125																		
30	8	8	8-4	14527	STR														126																		
31	1	3	1000-0	14528	STR														127																		
32	14	5	10-8 1/4	14529	STR														128																		
33	9	9	28-3	14530	STR														129																		
34	18	9	28-3	14531	STR														130																		
35	18	9	28-3	14532	STR														131																		
36	ABUTMENT 2																		132																		
37	12	5	8-0	14533	STR														133																		
38	10	5	10-10	14534	STR														134																		
39	9	5	3-11	14535	STR														135																		
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41	27	5	8-6	14537	STR														137																		
42	9	5	7-5 1/4	14538	STR														138																		
43	9	5	3-7 1/4	14539	STR														139																		
44	6	5	4-1	14540	SD														140																		
45	12	5	2-3	14541	SD														141																		
46	10	5	2-0	14542	SD														142																		
47	7	5	1-4 1/2	14543	SD														143																		
48	13	6	8-0	14544	STR														144																		
49	8	7	7-8 1/2	14545	STR														145																		
50	WINGWALL 3																		146																		
51	14	5	6-0	14546	STR														147																		
52	14	5	10-8 1/4	14547	STR														148																		
53	14	5	3-11	14548	STR														149																		
54	12	5	9-9	14549	STR														150																		
55	2	5	7-3	14550	STR														151																		
56	13	5	9-5 1/4	14551	STR														152																		
57	16	5	14-9 1/2	14552	STR														153																		
58	4	5	13-5 1/4	14553	STR														154																		
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60	14	5	3-1	14555	SD														156																		
61	13	7	5-9	14556	STR														157																		
62	PIER 2																		158																		
63	4	5	8-4	14557	STR														159																		
64	14	5	10-8 1/4	14558	STR														160																		
65	8	8	8-4	14559	STR														161																		
66	1	3	1000-0	14560	STR														162																		
67	14	5	10-8 1/4	14561	STR														163																		
68	9	9	28-3	14562	STR														164																		
69	18	9	28-3	14563	STR														165																		
70	18	9	28-3	14564	STR																																

TYPICAL SECTIONS



TYPICAL SECTION WITH BLOCK RETAINING WALL

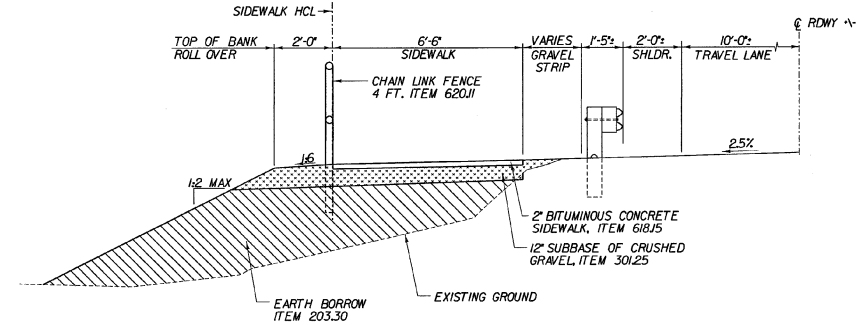
(NOT TO SCALE)
STA.11+96 TO STA.12+00:
STA.22+30 TO STA.22+34



TYPICAL SECTION WITH BLOCK RETAINING WALL

(NOT TO SCALE)
STA.12+00 TO STA.15+90:
STA.20+70 TO STA.22+30

NOTE:
SEE SHEET 22
FOR DETAIL FROM
STA.13+50 TO 15+50

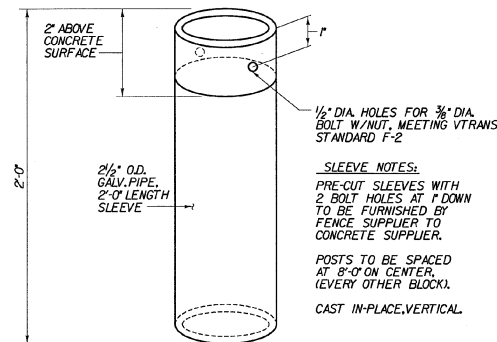


TYPICAL SECTION AT GRADE

(NOT TO SCALE)
STA.10+50 TO STA.11+96:
STA.23+96 TO STA.24+22.60

NOTES:

1. THE EXISTING EMBANKMENT IS TO BE UNDERCUT ONE FOOT BELOW BOTTOM OF BLOCKS USING THE ITEM 204.25 "STRUCTURE EXCAVATION". THE ITEM 204.30 "GRANULAR BACKFILL FOR STRUCTURES" IS TO BE USED UNDER AND BEHIND THE CONCRETE BLOCKS UP TO ONE FOOT BELOW ITEM 618.15 "BITUMINOUS CONCRETE SIDEWALK".
2. ONE FOOT OF THE ITEM 301.25 "SUBBASE OF CRUSHED GRAVEL" IS TO EXTEND FROM THE EXISTING SLOPE AFTER THE EXISTING TOP SOIL IS REMOVED TO THE NEW BLOCKS.
3. THE COST OF FURNISHING STEEL PIPE SLEEVES AND DRILLING THE CHAIN LINK SLEEVES INTO THE CONCRETE BLOCKS SHALL BE SUBSIDIARY TO THE ITEM 620.11 "CHAIN LINK FENCE - 4 FEET".
4. MOUNTING HARDWARE AND ANY REQUIRED MODIFICATION OF EXISTING GUARDRAIL POSTS IS SUBSIDIARY TO ITEM 525.15 METAL HAND RAILING (MOD-2 x 6 PRESSURE TREATED TIMBER).



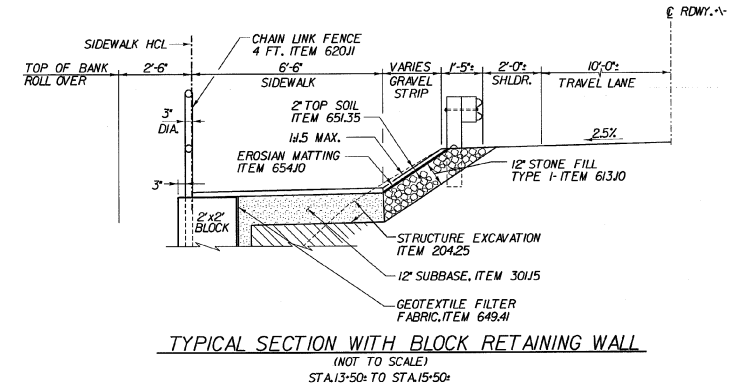
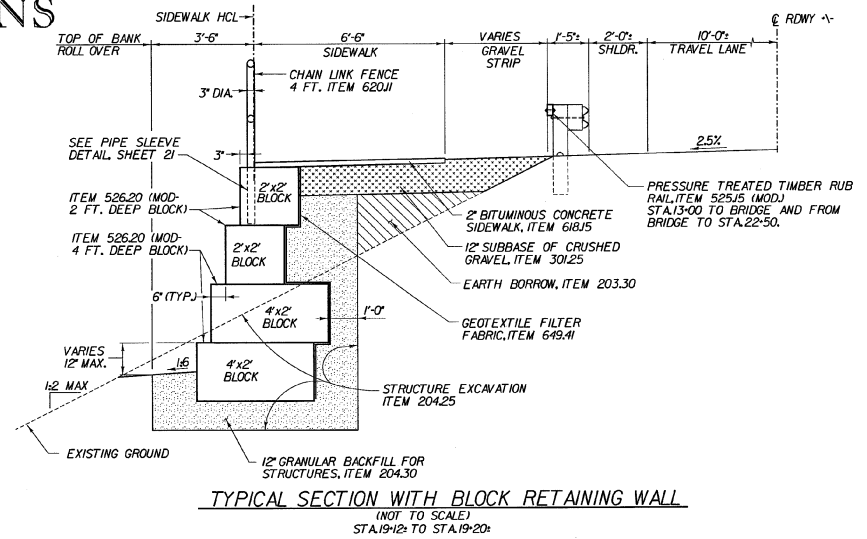
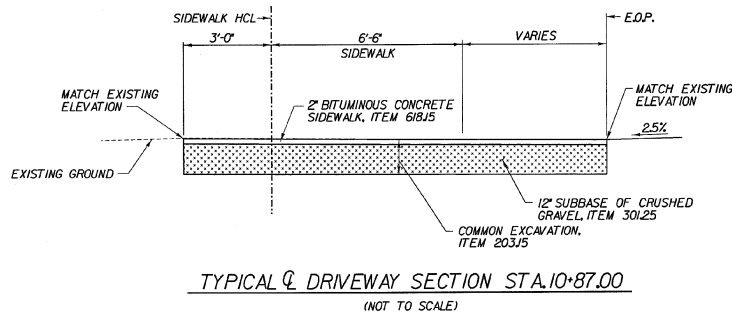
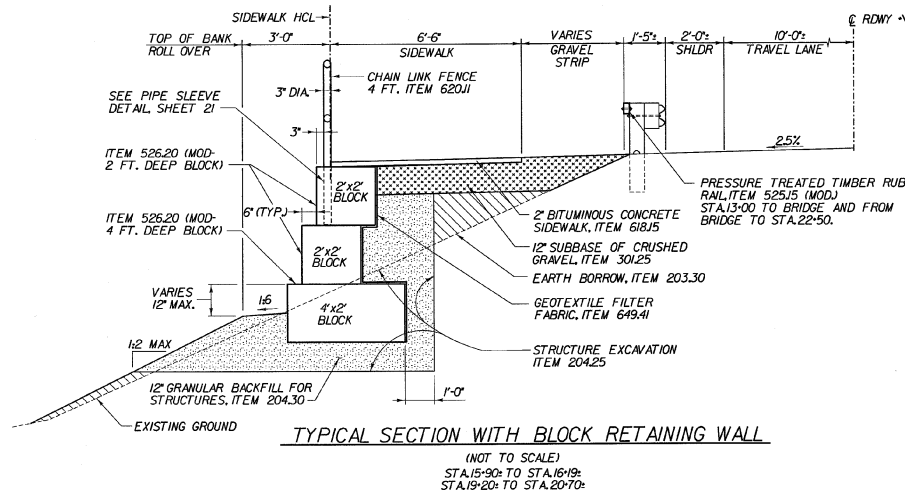
DETAIL-SLEEVE FOR CHAIN LINK POST ATTACHMENT

(NOT TO SCALE)

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD, PEDESTRIAN BRIDGE OVER I-89			
TYPICAL SECTIONS			
Designed By	D. STECIAK	Drawn by	K. DETRICK/J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
PROJECT	COLCHESTER	DATE	7/2001
		PROJECT NO.	M-089-3133
			STP EH 9981
L&C, Info.		Bridge Sheet No.	
		Sheet 21 OF 23	

TYPICAL SECTIONS



NOTES:

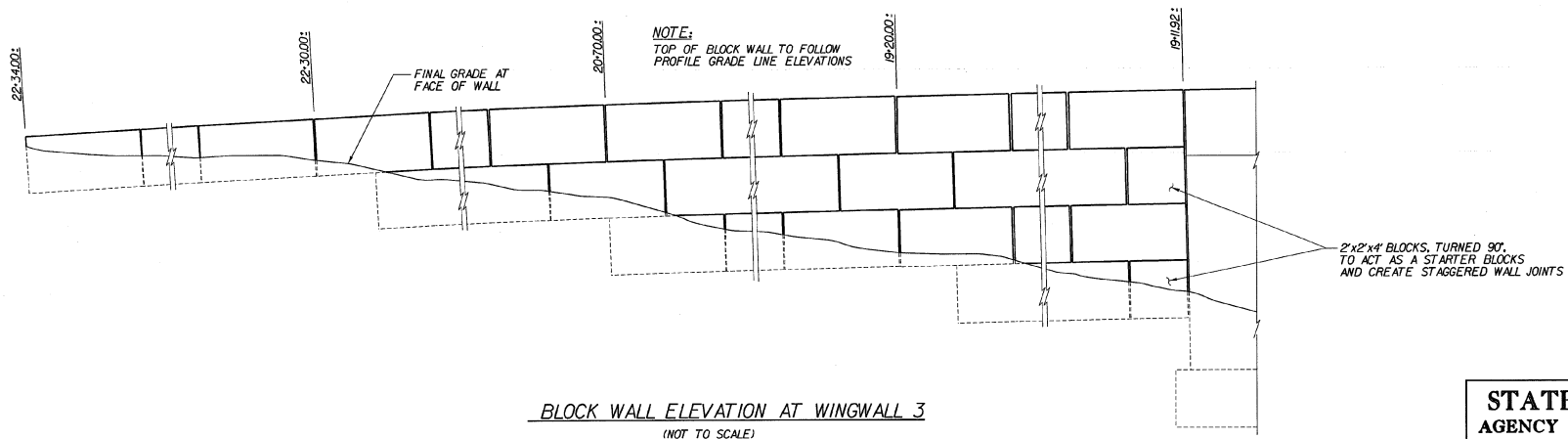
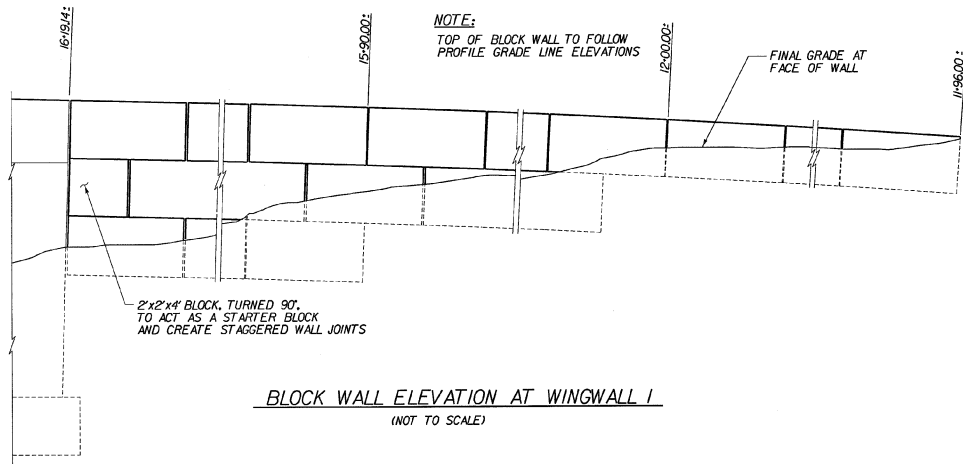
1. THE EXISTING EMBANKMENT IS TO BE UNDERCUT ONE FOOT BELOW BOTTOM OF BLOCKS USING THE ITEM 204.25 "STRUCTURE EXCAVATION". THE ITEM 204.30 "GRANULAR BACKFILL FOR STRUCTURES" IS TO BE USED UNDER AND BEHIND THE CONCRETE BLOCKS UP TO ONE FOOT BELOW ITEM 618.15 "BITUMINOUS CONCRETE SIDEWALK".
2. ONE FOOT OF THE ITEM 301.25 "SUBBASE OF CRUSHED GRAVEL" IS TO EXTEND FROM THE EXISTING SLOPE, AFTER THE EXISTING TOP SOIL IS REMOVED, TO THE NEW BLOCKS.
3. THE COST OF FURNISHING STEEL PIPE SLEEVES AND DRILLING THE CHAIN LINK SLEEVES INTO THE CONCRETE BLOCKS SHALL BE SUBSIDIARY TO THE ITEM 620J "CHAIN LINK FENCE - 4 FEET".
4. MOUNTING HARDWARE AND ANY REQUIRED MODIFICATION OF EXISTING GUARDRAIL POSTS IS SUBSIDIARY TO ITEM 525.15 METAL HAND RAILING (MOD-2 x 6 PRESSURE TREATED TIMBER).

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of	COLCHESTER	Bridge No.	
Highway No.	I-89	Log Sta.	
		Sup. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
TYPICAL SECTIONS			
Designed By	D. STECIAK	Drawn by	K. DETRICK/J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	
PROJECT	COLCHESTER	Date	7/2001
		PROJECT NO.	14-089-3(33)
			STP EN 9959

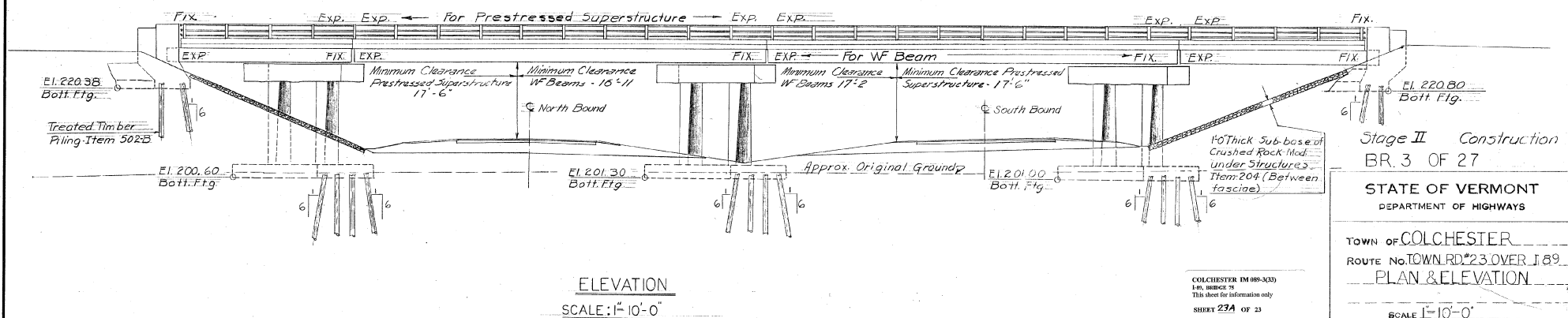
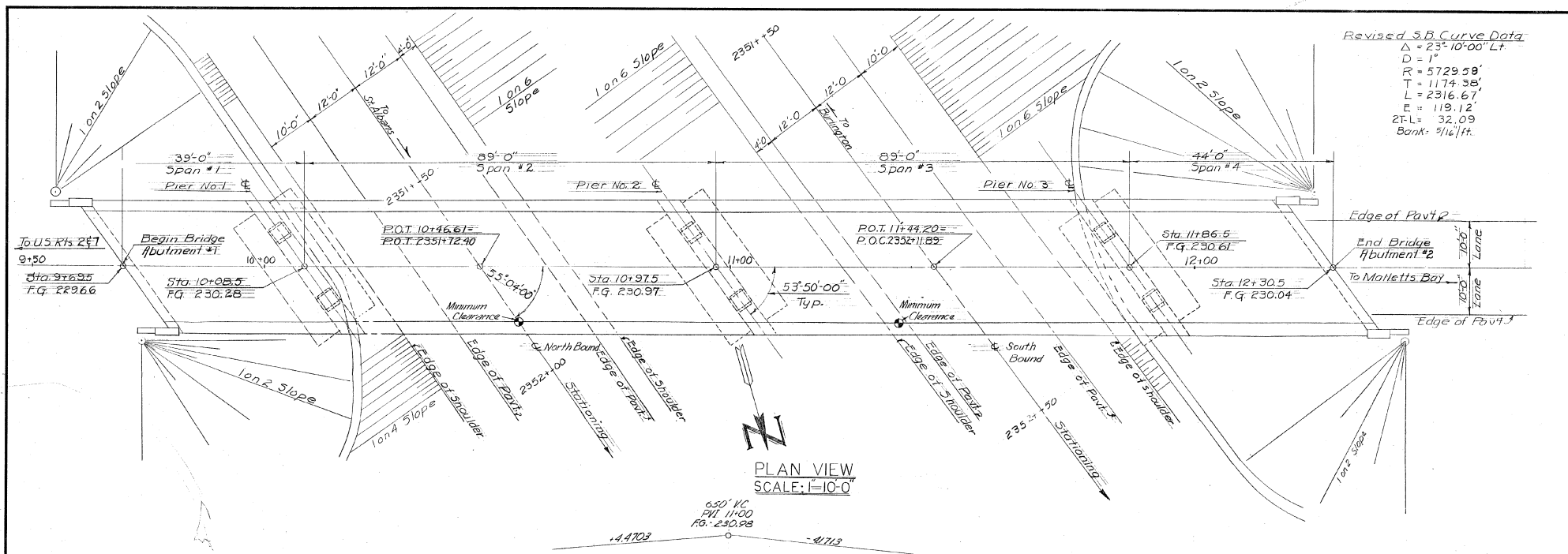
CHA CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS
MEMBER: CIRCLE 14, 2001, NEW YORK, 2005

Bridge Sheet No. Sheet 22 OF 23



STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	COLCHESTER	Bridge No.	
Highway No.	1-89	Log Sta.	
		Surv. Sta.	
BLAKELY RD. PEDESTRIAN BRIDGE OVER I-89			
BLOCK WALL ELEVATIONS AT WINGWALLS 1 AND 3			
Designed By	D. STECIAK	Drawn by	J. LAGONE
Checked By	M. OLSTAD	Bridge Design Supervisor	M. OLSTAD
	7/2001	Date	7/2001
PROJECT	COLCHESTER	PROJECT NO.	M-089-3(33) STP EH 99(B)
I/G.C. Info.		Bridge Sheet No.	



Stage II Construction
 BR. 3 OF 27

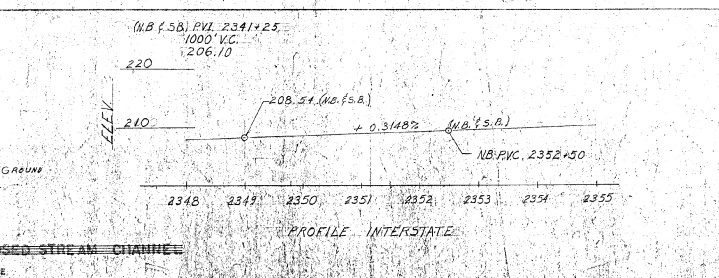
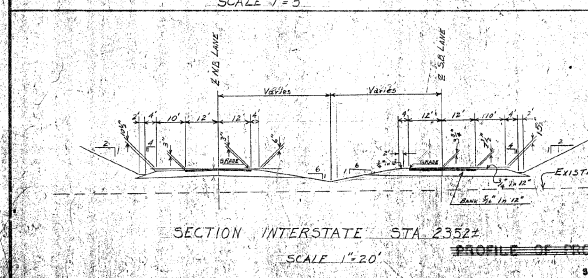
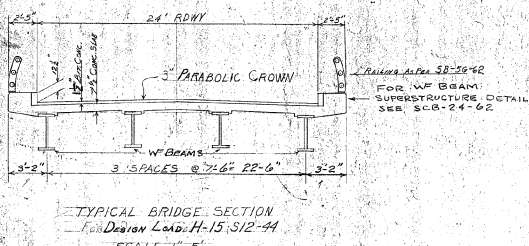
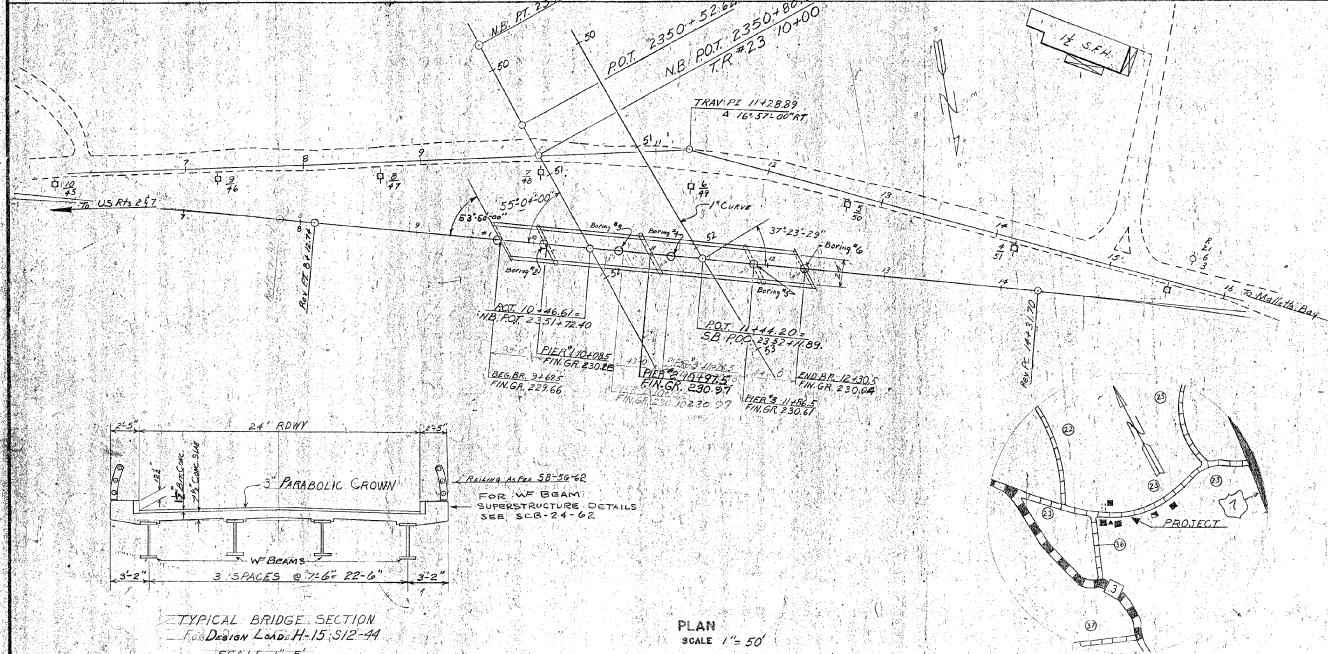
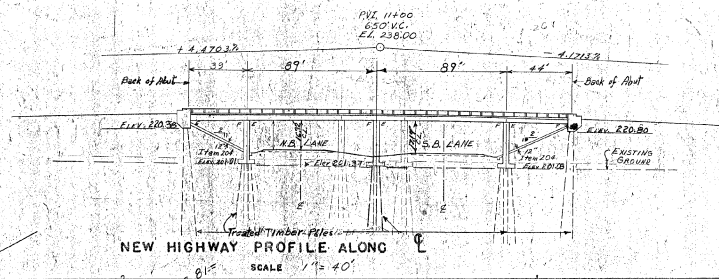
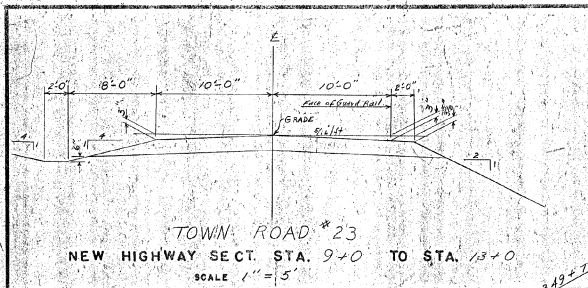
STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
 ROUTE NO. TOWN RD. #23 OVER I-89
 PLAN & ELEVATION

SCALE 1"=10'-0"
 SURVEYED BY BRUCE
 DRAWN BY G.V.K. CHECKED BY JOL
 PROJECT No. 189-3(23)
 SHEET 76 OF 265

COLCHESTER (M-89-303)
 I-89, BRIDGE 75
 This sheet for information only
 SHEET 23A OF 23

CONT. NO. 1 # 71 (19)



HIGHWAY NO. Town Road #23 NAME OF HIGHWAY
STRUCTURE NO. 89-3(19) COUNTY CHITTENDEN TOWN COLCHESTER
PROJECT NO. 89-3(19) LOCATION M.L. STA. 2352 ±
TOWN ROAD #23 OVER INTERSTATE

EXISTING STRUCTURE

1. RATED LOADING OF EXISTING STRUCTURE N/A
2. TYPE OF EXISTING STRUCTURE N/A
3. UNDER-CLEARANCE ELEVATION OF EXISTING STRUCTURE N/A
4. WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE COST OF REMOVAL
5. SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE N/A
6. SHOULD NEW TEMPORARY STRUCTURE BE BUILT N/A
7. ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE WATERWAY TO ORDINARY H.W.
8. EXTREME HIGH WATER AT EXISTING STRUCTURE WATERWAY TO EXTREME H.W.
9. SPAN OF EXISTING BRIDGE UPSTREAM WATERWAY TO EXTREME H.W.
10. SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXTREME H.W.
11. TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS N/A
12. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE N/A
13. IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED N/A
14. ADDITIONAL WATERWAY AREA PROVIDED N/A

NEW STRUCTURE

1. RECOMMENDED TYPE OF STRUCTURE PRESTRESSED CONCRETE OR W.F. BEAM BRIDGE
2. RECOMMENDED CLEAR SPAN OR SPANS 39'-89'-44'
3. MEASURED PARALLEL TO NEW HIGHWAY 39'-89'-44'
4. MEASURED AT RIGHT ANGLES TO EXISTING INTERSTATE 31.48-71.85-71.85-26.52
5. ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO N/A
6. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE N/A
7. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE SOURCE OF INFORMATION
8. DO ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE N/A
9. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY N/A IF ORDINARY RISE RAPID N/A
10. LOW WATER ELEVATION AT NEW STRUCTURE N/A
11. DRAINAGE AREA IN ACRES ABOVE STRUCTURE N/A CHARACTER OF TERRAINE N/A
12. IS STREAM EVER DRY N/A
13. VELOCITY OF STREAM AT HIGH WATER STAGE N/A ESTIMATED DISCHARGE N/A
14. AREA FULL OPENINGS N/A AREA BELOW ORDINARY H.W. N/A
15. CHARACTER OF SCOUR N/A DRIFT N/A ICE N/A
16. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE N/A
17. VERTICAL CLEARANCE ABOVE FLOOD ELEVATION N/A
18. ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE N/A BOTH SIDES N/A
19. RECOMMENDED TYPE OF PAVEMENT BIT. CONC. PAV.
20. TRAFFIC TO BE MAINTAINED UNDER ITEM NO. ONE OR TWO WAYS PROBABLE COST N/A
21. PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE N/A
22. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES N/A
23. ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 20 TONS SHOULD PILES BE USED YES BUT LATER APPROVED N/A

FOUNDATION INFORMATION

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. BOULDERS MAY BE ENCOUNTERED AT ANY PIER OR ABUTMENT LOCATION.

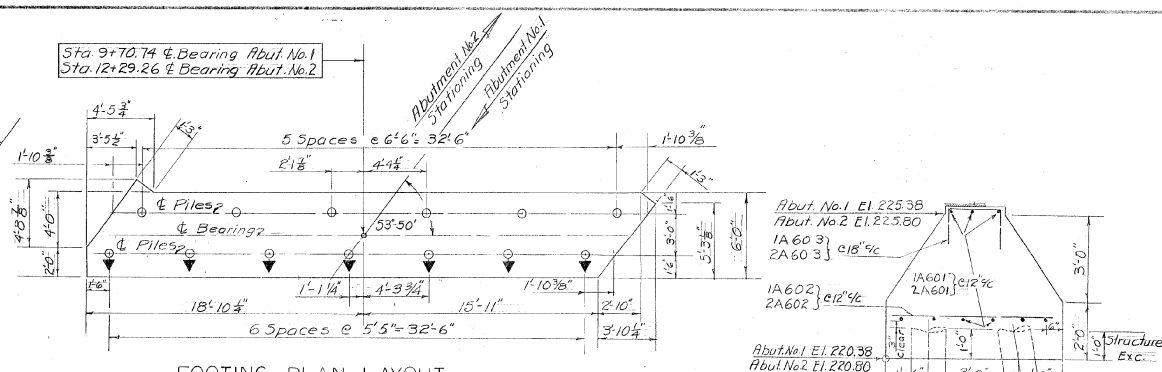
BR. 4 OF 27

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
COLCHESTER
TOWN ROAD #23 IN THE TOWNS OF
COLCHESTER
ROUTE NO. 89 STA. 2352 ±
TOWN ROAD #23 OVER INTERSTATE
CONTRACT NO. 1-72 (19)
SHEET 77 OF 265

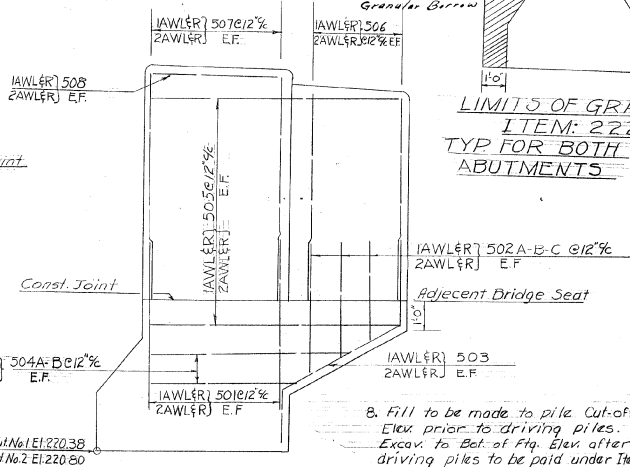
STAGE II Construction

COLCHESTER IM 889-3(33)
IN. 889-3(33)
This sheet for information only
SHEET 23B OF 23

APPROVED
CHIEF ENGINEER



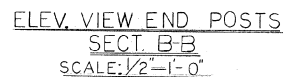
FOOTING PLAN LAYOUT
ABUTMENT NO. 1 & 2
SCALE: $\frac{1}{4}" = 1'-0"$



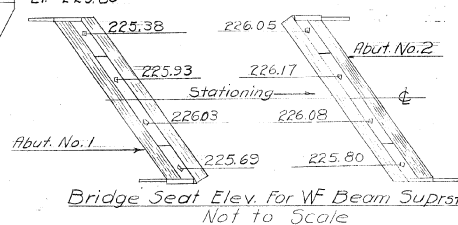
LIMITS OF GRAVEL-BACKFILL
ITEM: 222
TYP FOR BOTH
ABUTMENTS

1. For General
2. The 1A60

Notes
 1. Notes see BR.1 of 27.
 2. IAG602, 2AG601 & 2AG602 bars are
 3. old to fit skew ends.
 4. Ring steel schedule see BR15
 5. shall be poured monolithic with
 6. m up to adjacent beam seat
 7. lengths of piles are 50ft for
 8. nts. Front row of piles to be
 9. 6. Test piles driven to 90'. Order 90 piles.
 10. n on this sheet are typical for
 11. ture, except as follows:
 12. location of bridge seats are for
 13. per structure.
 14. row bridge seats are shown for
 15. structure.
 16. Elevation- are for WF Beam Superstructure.
 17. Items in flumtments shall be Concrete
 18. Item 401-B



ELEV. VIEW END POSTS
SECT. B-B
SCALE: 1/2"=1'-0"



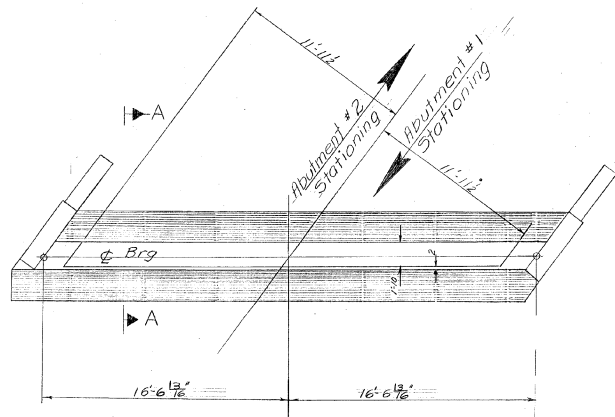
COLCHESTER IN 809-3333
 Est. number 75
 This sheet for information only

SHEET 23C OF 23

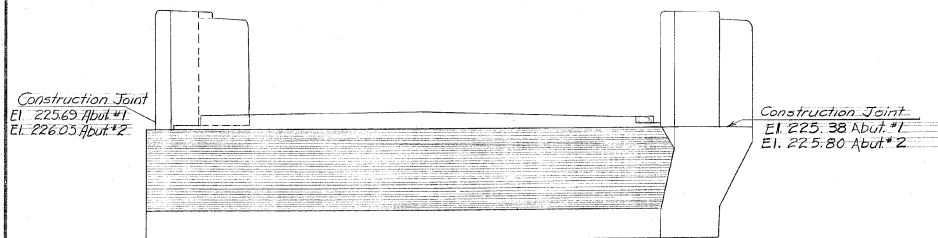
BR.10 OF 27 Stage I Const.

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

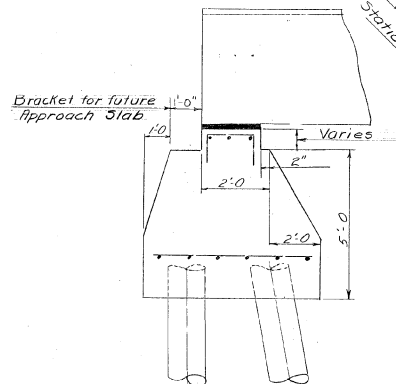
TOWN OF COLCHESTER
ROUTE NO. TOWN RD. 23 OVER I89
ABUTMENT NO. 1 & 2, DETAILS FOR
W/BE AM SUPERSTRUCTURE
SCALE AS SHOWN
SURVEYED BY BRUCE
DRAWN BY G.V.K. CHECKED BY AAK.
PROJECT NO. I 89-3(19)
SHEET 78 OF 265



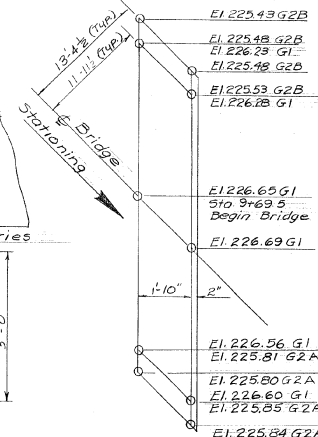
ABUTMENT NO. 1 & 2
PLAN VIEW
SCALE: 1/4" = 1'-0"



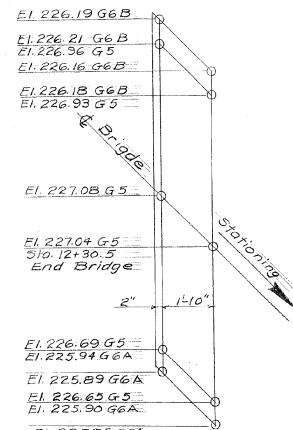
ABUTMENT NO. 1 & 2, ELEVATION
SCALE: 1/4" = 1'-0"



SECTION A-A
TYP. ABUT. DETAIL
FOR PRESTRESSED SUPERSTRUCTURE
SCALE: 1/2" = 1'-0"



ABUTMENT NO. 1



ABUTMENT NO. 2

BRIDGE SEAT ELEVATIONS

- Notes:
- For General notes See BR. I of 27.
 - For additional dimensions & elevations, pile plan layout, and other details see Br. 10 of 27.
 - The end posts above low bridge seat elev. shall not be poured until superstructure is in place.

See Sheet 2 of 27 for Final Quantities

ITEM NO.	ITEM	UNIT	NET	OVERSUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MCD.)	C.Y.				
402	REINF. STEEL	LBS.				
407	ASPHALT-AC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

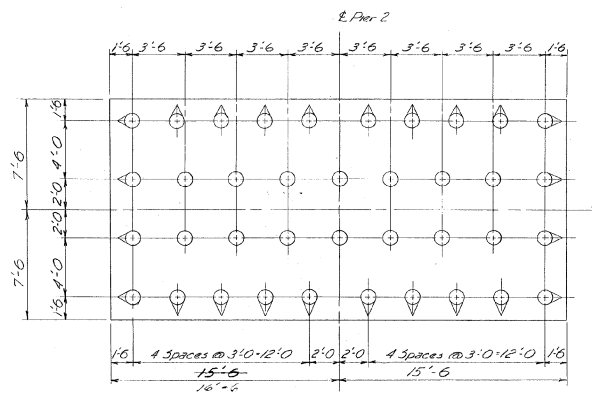
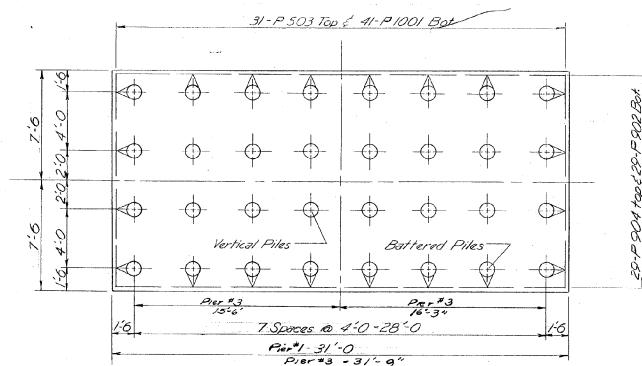
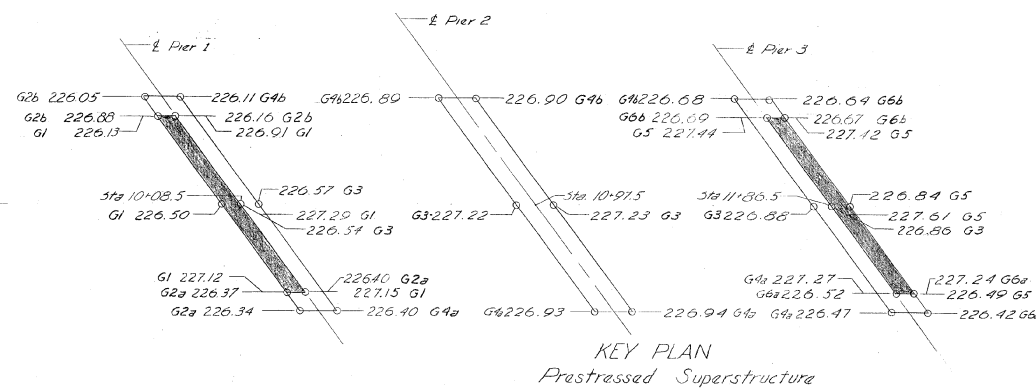
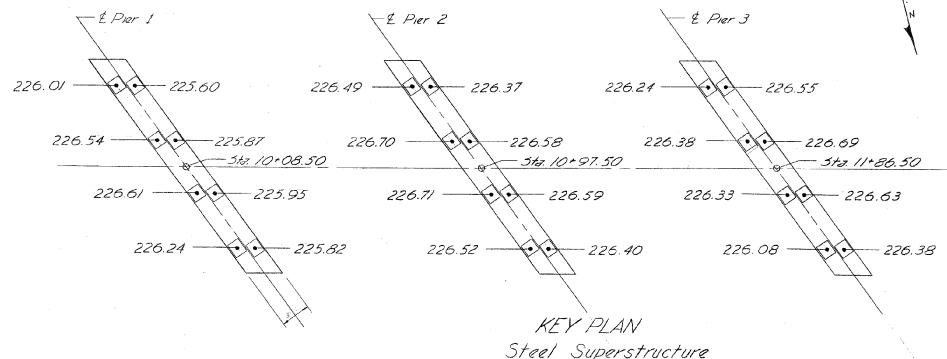
COLCHESTER (M 88-333)
Iss. source 15
This sheet for information only
SHEET 22D OF 23

Stage I Construction
BR. II OF 27

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE NO. TOWN ROAD #23 OVER I-89
ABUTMENT NO. 1 & 2 DETAILS FOR
PRESTRESSED SUPERSTRUCTURE
SCALE AS SHOWN
SURVEYED BY: BRUCE
DRAWN BY: G.V.K. CHECKED BY: VOL
PROJECT NO. 189-3(19)
SHEET 72 OF 265

CONT. NO. 1



NOTES

1. For general notes see B.R.1 of 27.
2. The estimated length of piles is 60' for all piers. All edge piles shall be battered away from the footing - 1 on 6.
3. The WF superstructure expansion plates and drain troughs shall be as indicated on 5CB-D3-62 - Type B (draw over the side of the pier cap).

Footing Plan - Pier 1 & Pier 3
SCALE 4"=1'-0"

Footing Plan - Pier 2
SCALE 4"=1'-0"

See Sheet 2 of 27 for Final Quantities

ITEM NO.	ITEM	UNIT	NET	OVERLAP	TOTAL	FINAL
105-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF FECH.	C.Y.				
106-C	UNCLAS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (WOOD)	C.Y.				
402	REINF. STEEL	LBS.				
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

Stage I Construction
B.R.12 of 27

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF COLCHESTER
ROUTE NO. 123 Over I-89
PIER-DETAILS

SCALE: AS SHOWN

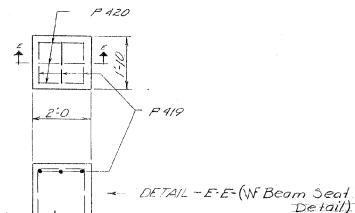
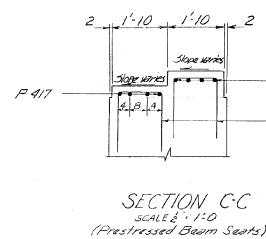
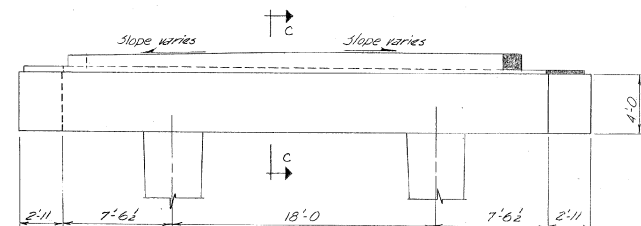
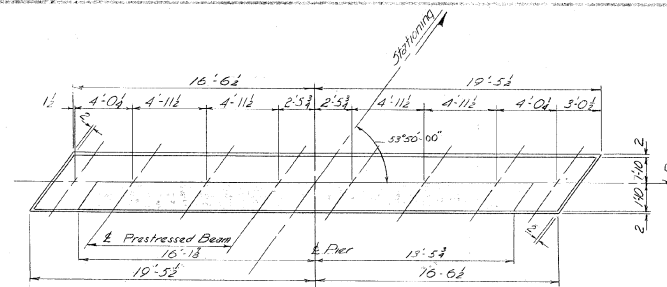
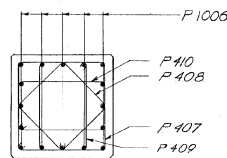
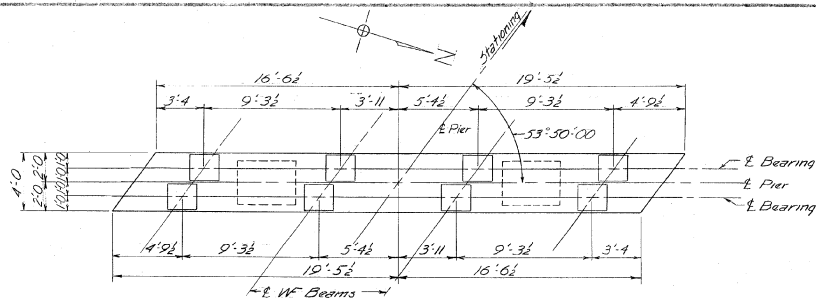
DESIGNED BY: G.V.K.

CHECKED BY: G.V.K.

PROJECT NO. 1-89-3(5)

SHEET 80 OF 265

CONT. NO. 1



SECTION D-D SCALE 1/2" BR. 13 of 27

For notes see sheet BR 1 of 27

ITEM NO.	ITEM	UNIT	NET	OVERTUN	TOTAL	FINAL
105-A	CHAL. EXCAV. OF EARTH	C. Y.				
105-B	CHAL. EXCAV. OF ROCK	S. Y.				
105-C	UNCLASD. CHAL. EXCAV.	C. Y.				
107	STRUCT. EXCAV.	C. Y.				
401-B	CONC. CLASS B (MOD.)	C. Y.				
402	REIN. STEEL	LBS.				
407	ASPHALT/TAKE COATING	S. Y.				
502-B	TREATED HARDER PILING	L. F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L. F.				
502-A	UNTREATED HARDER PILING	L. F.				

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
BRIDGE - SI-B2

TOWN OF COLCHESTER
ROUTE NO. 123 over I-89

PIER DETAILS - 1.2 & 3

PRESTRESSED W-BEAM

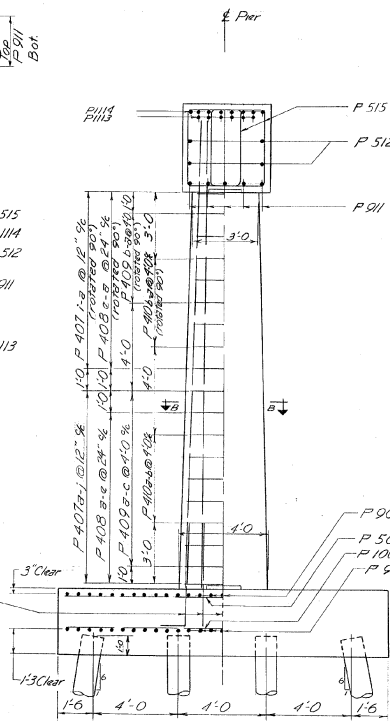
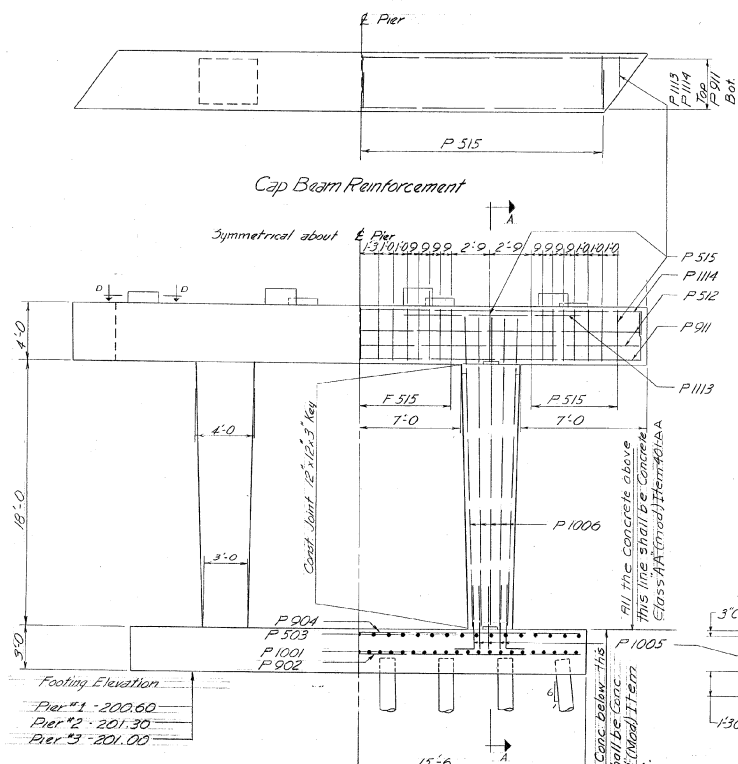
SCALE - AS SHOWN

DRAWN BY VOL. CHECKED BY G.V.K. 1/62

PROJECT NO. 1-89-3(5)

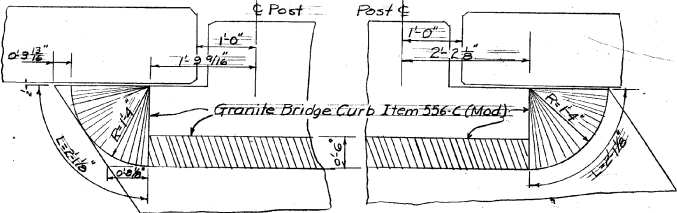
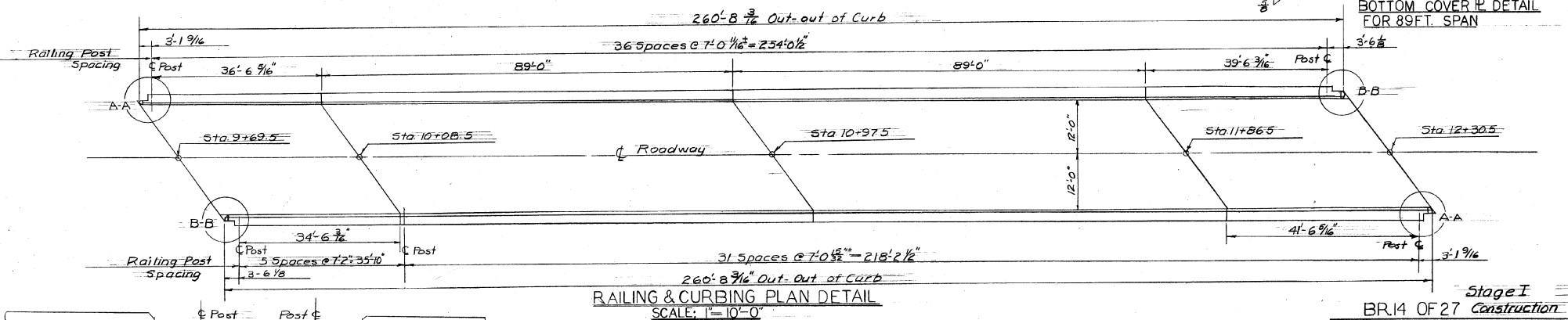
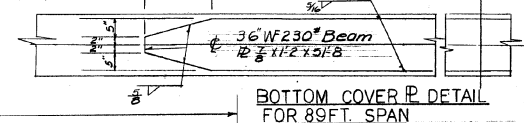
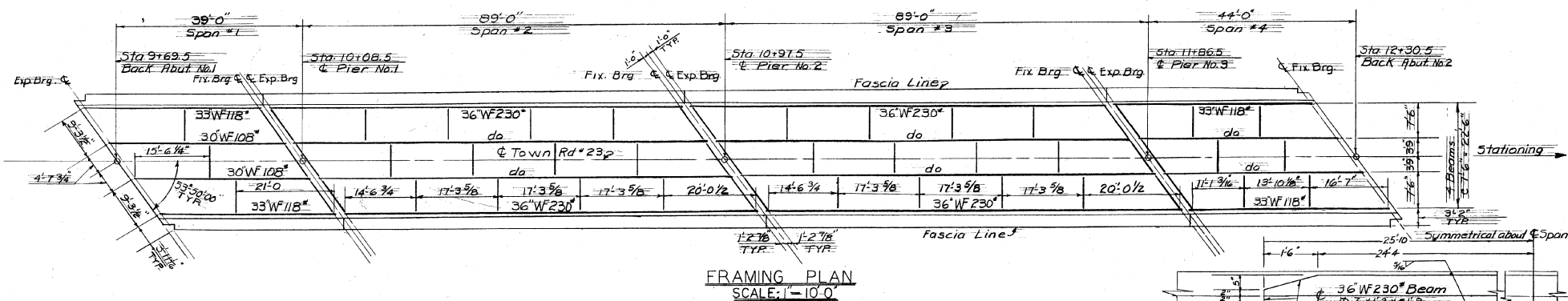
SHEET 81 OF 265

CONT. NO. 1



ELEVATION SCALE 1/4"

SECTION A-A SCALE 1/2"

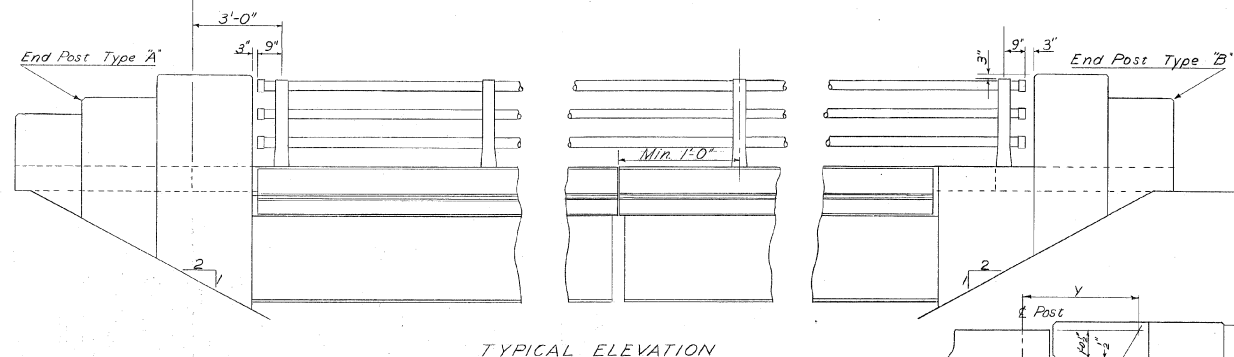
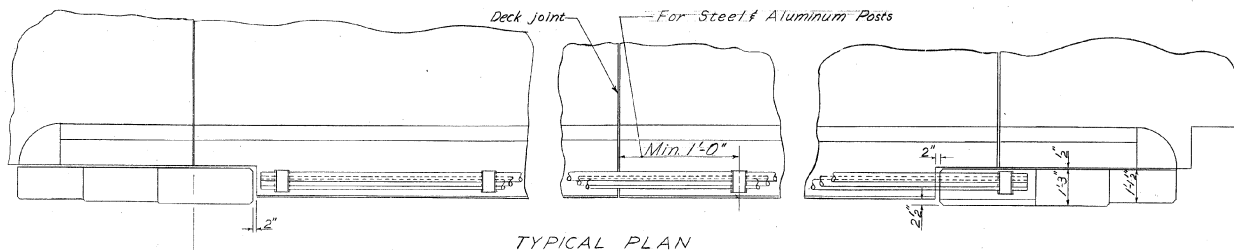


Notes
1. For General Notes See Br 1 of 27.
2. For additional details see standard: SCB-24-62, SCB-D1, D3, D6, D7, D8 & D9-62; SB-5G-62.

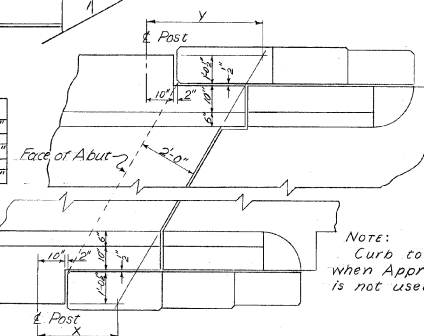
ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.				
402	REINF. STEEL	LBS.				
407	ASPHALTIC-RES. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

Stage I
BR.14 OF 27 Construction

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
TOWN OF COLCHESTER
ROUTE NO. TOWN RD. 23 OVER I-89
FRAMING-RAILING & CURBING PLAN DETAILS
SCALE AS SHOWN
SURVEYED BY BRUCE
DRAWN BY G.V.K. CHECKED BY V.O.L.
PROJECT NO. I-89-3(19)
SHEET 22 OF 265
CONT. NO. 1



SKEW	X	Y
15°	2'-9 1/2"	3'-4 1/2"
30°	2'-8 1/2"	3'-10 3/8"
45°	2'-9 1/2"	4'-10 1/2"



GENERAL RAILING NOTES

All posts to be set normal to the grade.
Prior to fabrication of the railing, shop drawings shall be submitted to the Highway Department for approval.
One anchor bolt template shall be supplied for each type of post.
Tubular rails, rail posts, box section inserts, wedges, end caps, anchor bolts, nuts, washers, anchor bolt templates, shims & all labor, tools, equipment and incidentals necessary to complete the acceptable railing installation shall be included in the Unit Price bid for Item 572.
All bolts, nuts & washers shall be galvanized to A.S.T.M.-A-153-61.

GALVANIZED METAL RAILING

Intermediate Three Tube Post - Malleable Iron Casting - A.S.T.M. A-47 GR. 35018, galvanize to A.S.T.M. A-123-59.

Maximum post spacing shall be 10'-0".
Except for end sections and panels over expansion joints, all rails shall run continuous through two consecutive posts. Rails shall be so arranged, that no more than two splices will be adjacent to any given post. (In effect stagger joints as much as is practical.)

ALUMINUM RAILING

Posts shall meet A.A.S.H.O. Designation M-193-61. Rails shall meet A.S.T.M. Specification B 235-61 Alloy-6061 Cond. T-6.

Maximum post spacing shall be 7'-2".
Aluminum railing posts are to be set on pads 1/2" thick of a non-conductive material meeting the approval of the Engineer and the edges are to be sealed with an Aluminum Impregnated Caulking Compound.

Except for end sections all rails shall run continuous through three consecutive railing spans. With the exclusion of the end posts, the joints shall be placed so that there will be no more than one rail splice at each post.

GALVANIZED METAL RAILING (CONTINUED)

All rail splices and end caps shall be tested after galvanizing to assure proper clearances for field erection.

Note:
Curb to be modified when Approach Slab is not used.

COLCHESTER 1M (089-303)
L.S. BRIDGE 75
This sheet for information only
SHEET 23H OF 23

REVISIONS & CORRECTIONS
Note added for testing rail splices after galvanizing. 9/29/64 WMS.

Drawn By: *W* Date: Dec. 1, 1962
Traced By: *W* Date: Dec. 1, 1962
Checked By: *WMS* Date: Dec. 1, 1962
Recommended *WMS* 12/7/62
For Approval Bridge Engineer Date
Recommended *WMS* 12/7/62
For Approval Assist. Chief Engineer Date
Approved By: *G. V. Smith* 1/4/63
Chief Engineer Date

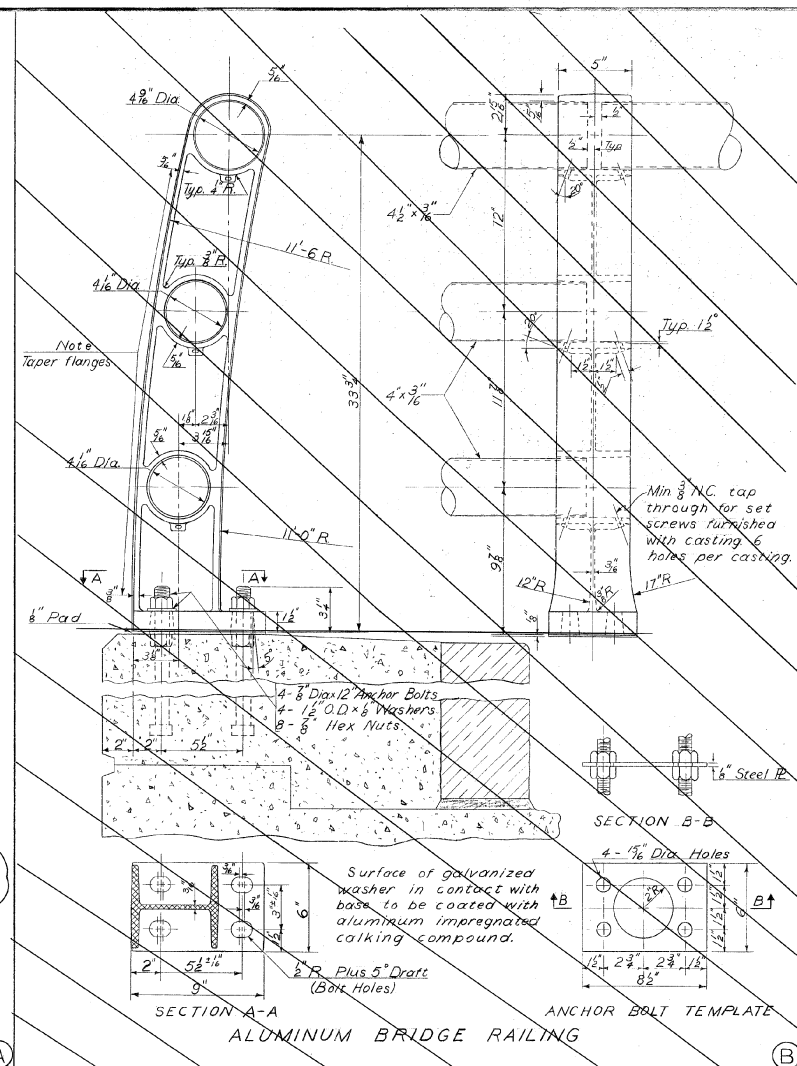
DETAILS OF BRIDGE RAILING PLAN & ELEVATION

EITHER ALUMINUM OR GALVANIZED METAL
RAILING MAY BE USED

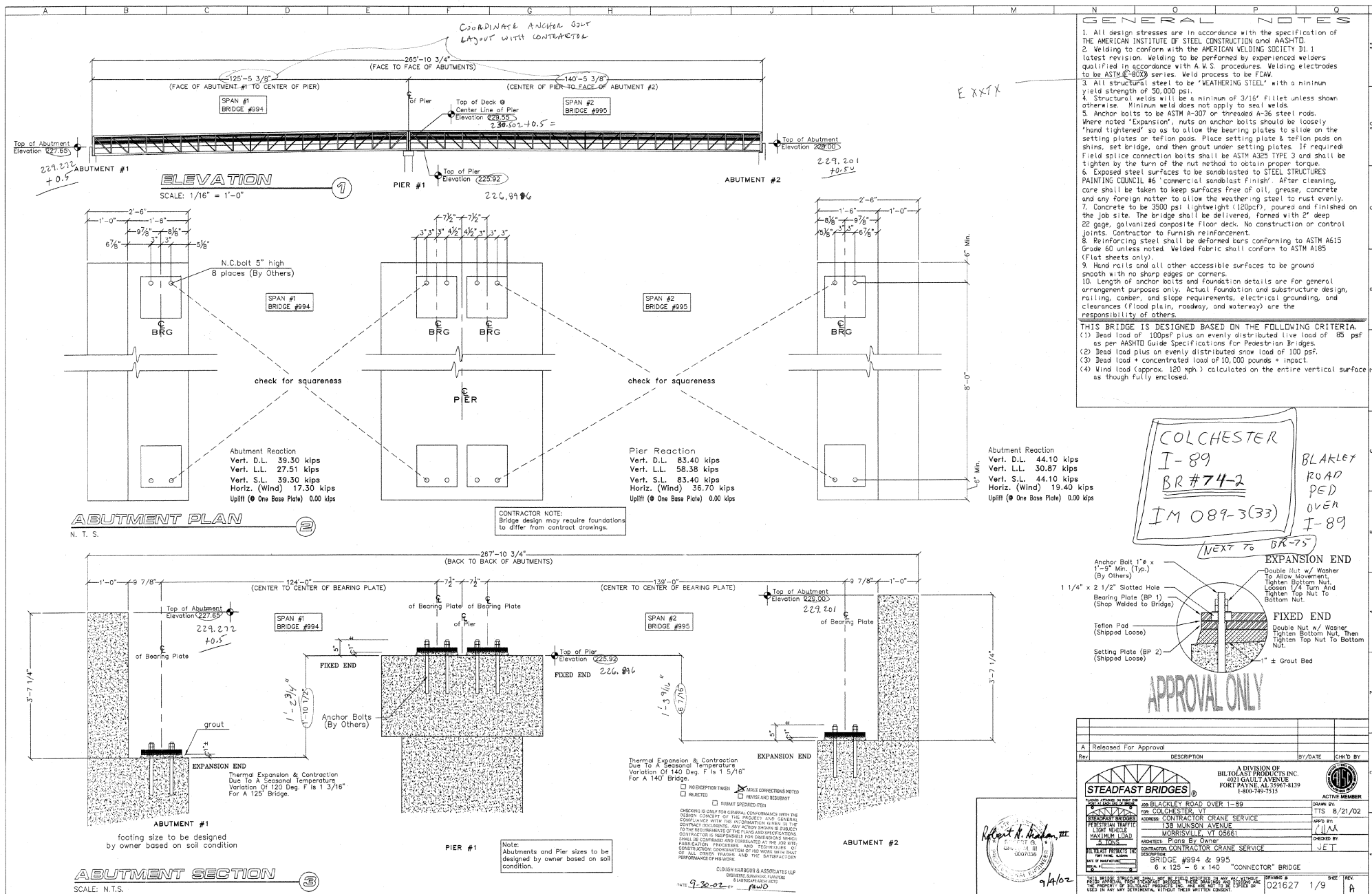
VERMONT
DEPARTMENT OF HIGHWAYS
STRUCTURE STANDARDS

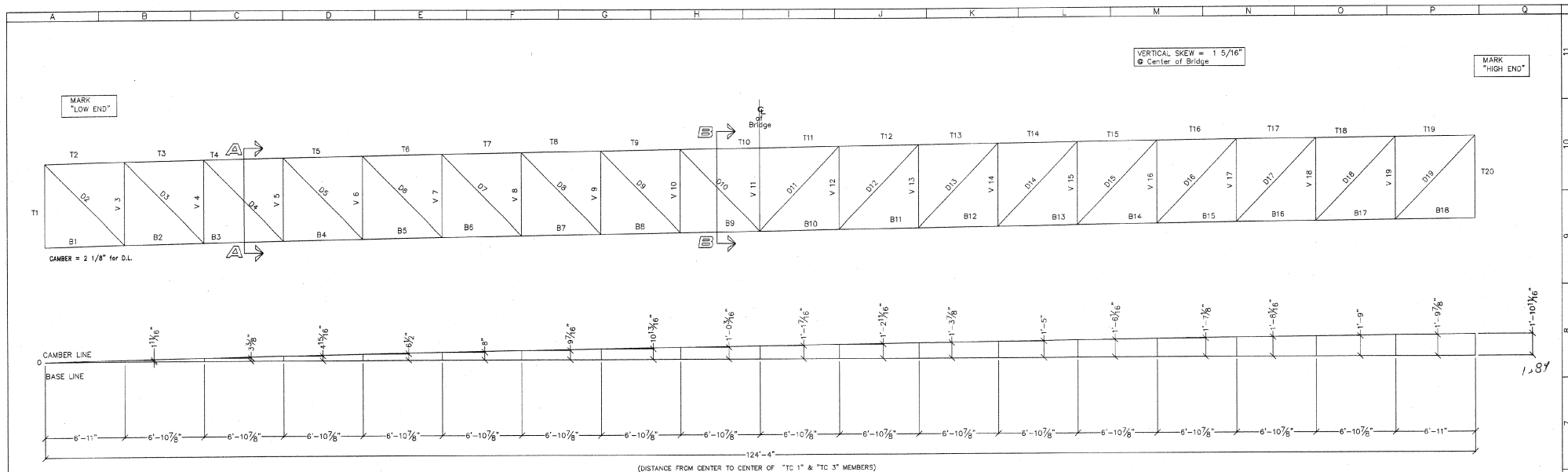
SB-5G-62

SHEET 1 OF 2



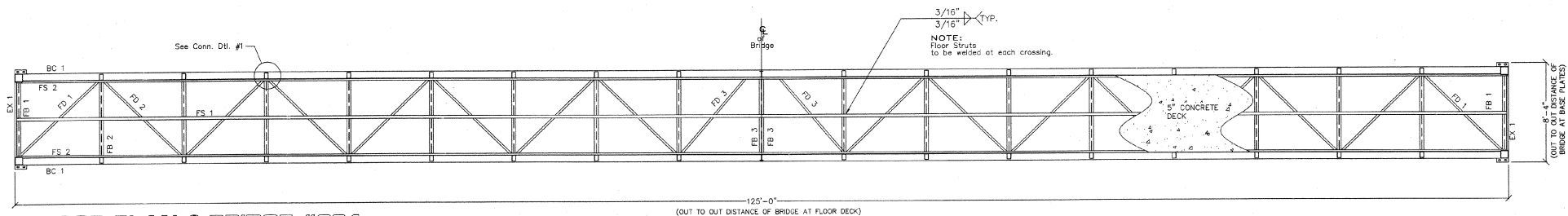
COLCHESTER IM 089-3(33)
I-89, BRIDGE 75
This sheet for information only
SHEET 23I OF 23





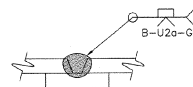
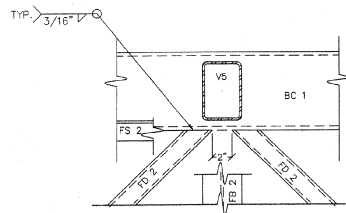
ELEVATION @ BRIDGE #994

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



FLOOR PLAN @ BRIDGE #994

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



NO EXCEPTIONS FOR THESE PROJECTS
☒ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT
☐ SUBMIT FOR APPROVAL

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND FOR THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETION OF THE PROJECT AND FOR THE COMPLETION OF THE PROJECT.

CLOSER HARBOR & ASSOCIATED LLP
 DESIGNER, STRUCTURAL PLANNERS
 & ARCHITECTS

DATE 9-30-02 BY MWO



APPROVAL ONLY

Rev.	DESCRIPTION	BY/DATE	CHECKED BY
A	Released For Approval		

STEADFAST BRIDGES

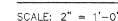
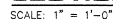
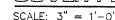
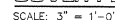
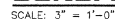
FOR BLACKLEY ROAD OVER I-89
 FOR COLCHESTER, VT
 ADDRESS: CONTRACTOR CRANE SERVICE
 138 MANSION AVENUE
 MORRISVILLE, VT 05661

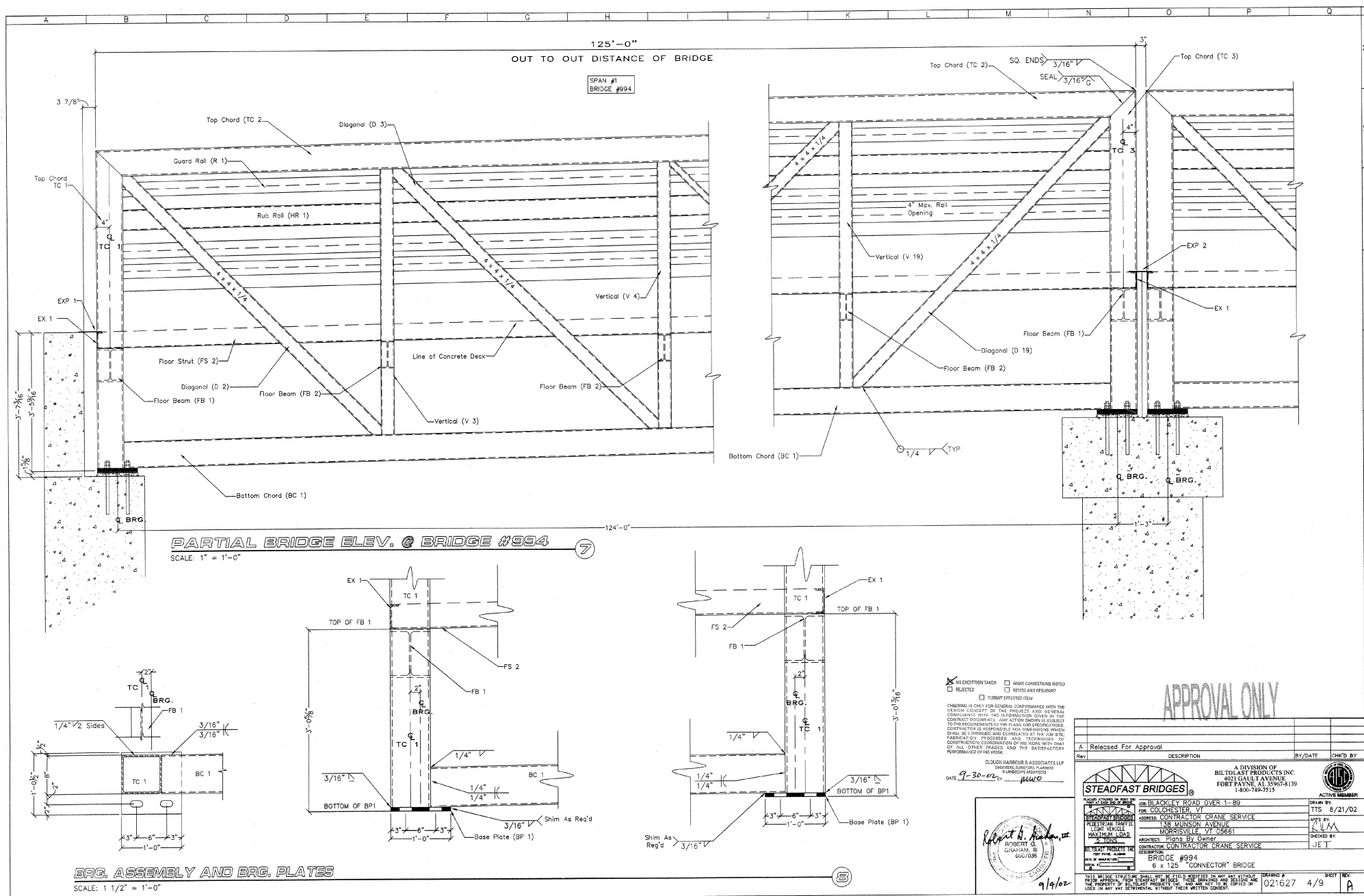
DESIGNED BY: JET
 CHECKED BY: JET

BRIDGE #994
 6 x 125 "CONNECTOR" BRIDGE

DATE 9/14/02

021627 2/9



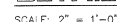
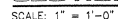
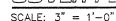
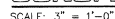




DATE 9-30-02 BY mwo

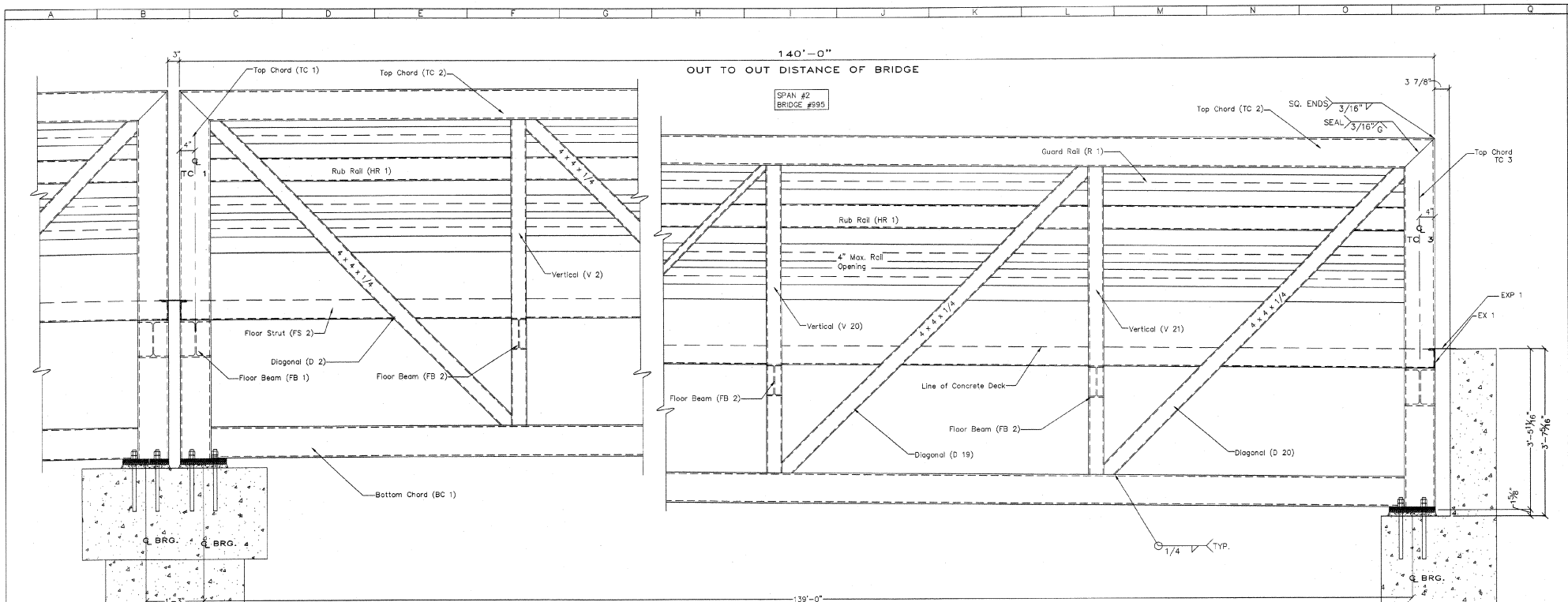
APPROACH

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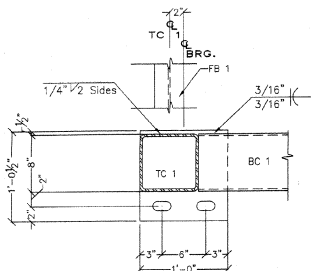


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USED IN ANY WAY DETRIMENTAL, WITHOUT THEIR WRITTEN CONSENT.

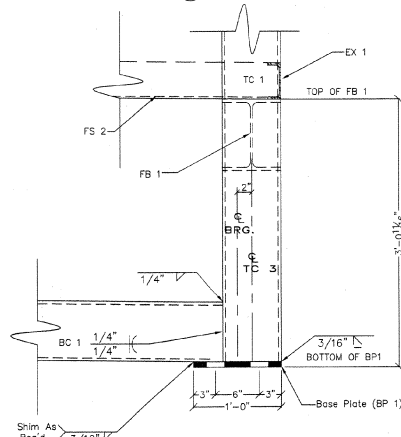
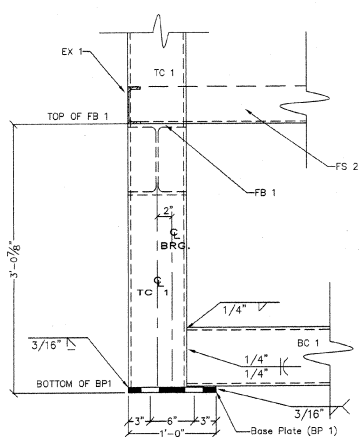
APPROVAL ONLY



PARTIAL BRIDGE ELEV. @ BRIDGE #994
SCALE: 1" = 1'-0"



BRG. ASSEMBLY AND BRG. PLATES
SCALE: 1 1/2" = 1'-0"



NO EXCEPTION TAKEN
REJECTED
SUBMIT SPECIFIED ITEM
OBSERVE IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION DRAWN IS SUBJECT TO THE REQUIREMENTS OF THE AIA AND APPLICABLE CONTRACTOR IS RESPONSIBLE FOR CHANGES WHICH SHALL BE CORRECTED AND COMPLETED AT THE CONTRACTOR'S EXPENSE. COORDINATION OF ALL WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

CLUSTER HARBOR & ASSOCIATES LLP
ENGINEERING, ARCHITECTURE
DESIGN, CONSTRUCTION
DATE: 9-30-02 BY: mwp



9/4/02

APPROVAL ONLY

A Released For Approval		Rev	DESCRIPTION	BY/DATE	CHK'D BY
STEADFAST BRIDGES® A DIVISION OF BILTOLAST PRODUCTS INC. 2021 GAULT AVENUE FORT PAYNE, AL 35967-8139 1-800-749-7515 FOR BLACKLEY ROAD OVER 1-89 IN COLCHESTER, VT CONTRACTOR CRANE SERVICE 198 MUNSON AVENUE MORRISVILLE, VT 05661 ARCHITECT: SHOPS BY CHANCE CONTRACTOR: CONTRACTOR CRANE SERVICE BRIDGE #995 6 x 140 "CONNECTOR" BRIDGE DATE: 9/4/02 DRAWN BY: JET CHECKED BY: JET APPROVED BY: JET PROJECT NO: 021627 SHEET NO: 8/9 SCALE: 1" = 1'-0"					

