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Date: January 22, 1962

Beck & Bellucci  
*Enrico M. Bellucci*  
 Contractor

Thomas M. ...  
 Commissioner of Highways  
 By Order of Commissioner of Highways

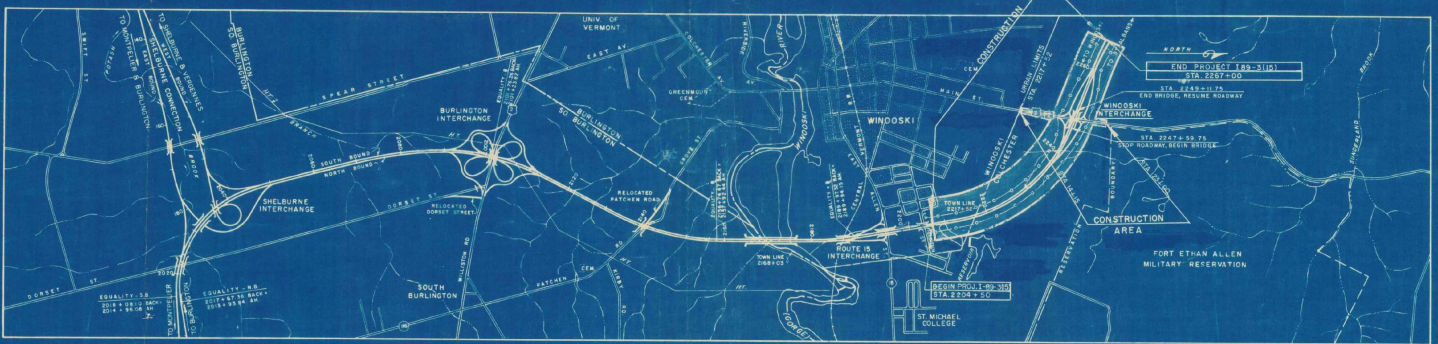
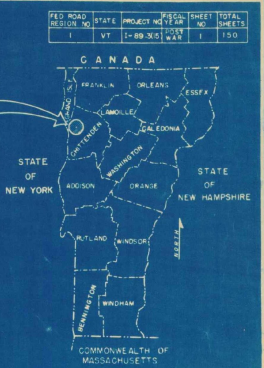
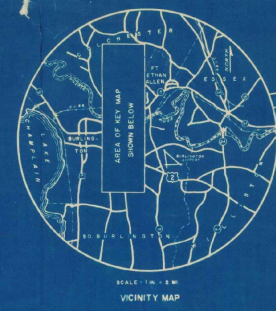
STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
**PROPOSED IMPROVEMENT**  
 INTERSTATE PROJECT

**CITY OF WINDOSKI-TOWN OF COLCHESTER**  
**COUNTY OF CHITTENDEN**

PROJECT I 89-3(15) STAGE I  
 BEGINNING AT A POINT IN WINDOSKI 0.246 MI. SOUTH OF THE WINDOSKI  
 COLCHESTER TOWN LINE AND EXTENDING NORTHERLY FOR A DISTANCE OF 1.184 MILES

LENGTH OF ROADWAY 1.155 MILES OR 6098.0 FEET  
 LENGTH OF BRIDGE 0.029 MILE OR 152.00 FEET  
 LENGTH OF PROJECT 1.184 MILES OR 6250.0 FEET

DESIGNATION	DESIGNATION
A. D. T. 1959	3500
A. D. T. 1975	7760
D. H. V.	1150
D	50%
T	5%
V	70 M.P.H.



SCALE 1" = 1320'  
**KEY MAP**  
 X - DENOTES ACCESS POINT

- CONVENTIONAL SIGNS
- ROW
  - R.O.W. FENCE
  - COUNTY LINE
  - TOWN LINE
  - ENCE LINE
  - STONE WALL
  - UNFENCED PROPERTY
  - GUARD RAIL
  - TRAVELED WAY
  - RAILROAD
  - RETAINING WALL
  - CENTER LINE
  - BURIED LINE
  - LIMITED ACCESS
  - OLENT
  - TROLLEY POLE
  - POWER POLE
  - TELEPHONE POLE
  - TREES
  - HEDGE
  - SLOPE RIGHTS

GROUND ELEVATION	DATE	SCALE
DEFLECTION OF ANGLE	A	1" = 1500 FT.
DEGREE OF CURVE	D	1" = 1500 FT.
RADIUS OF CURVE	R	1" = 1500 FT.
TANGENT DISTANCE	T	1" = 150 FT.
LENGTH OF CURVE	L	1" = 50 FT.
EXTERNAL DISTANCE	E	1" = 10 FT.
POINT OF INTERSECTION	P.I.	1" = 10 FT.
POINT OF CURVE	P.C.	1" = 10 FT.
POINT OF TANGENT	P.T.	1" = 10 FT.
POINT ON TANGENT	P.O.T.	1" = 10 FT.
POINT ON SUB-TANGENT	POST	1" = 10 FT.

SUBMITTED <u>David C. ...</u>	APPROVED _____	APPROVED <u>E. M. ...</u>	APPROVED <u>...</u>	APPROVED <u>...</u>	APPROVED <u>...</u>	APPROVED <u>...</u>	APPROVED <u>...</u>	APPROVED <u>...</u>
DATE _____	DATE _____	DATE <u>4/23/61</u>	DATE _____	DATE <u>3/1/61</u>	DATE <u>4/23/61</u>	DATE _____	DATE <u>4/21/61</u>	DATE _____
CONSULTING ENGINEER	SECONDARY ENGINEER	DISTRICT ENGINEER	BRIDGE ENGINEER	DISTRICT ENGINEER	DISTRICT ENGINEER	DISTRICT ENGINEER	DISTRICT ENGINEER	DISTRICT ENGINEER

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION OF JANUARY, 1956, SUBMITTED TO THE BUREAU OF PUBLIC ROADS AS APPROVED JULY 6, 1956, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

STAGE I CONSTRUCTION

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS

APPROVED \_\_\_\_\_

DIVISION ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT I NO. 89-3(15)

SHEET 1 OF 150 SHEETS

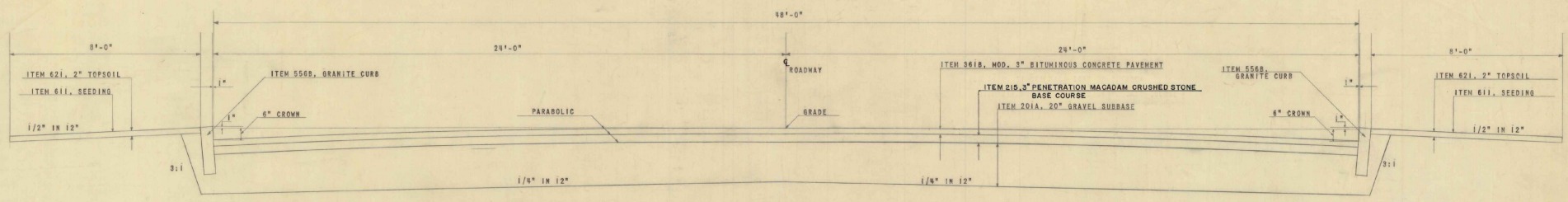
FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No.	SHEET	TOTAL SHEETS
I	VERMONT	89-3 (15)	5	150

**NOTE:**  
U.S. ROUTE 287 IS TO BE BUILT IN ITS ENTIRETY DURING STAGE I CONSTRUCTION.

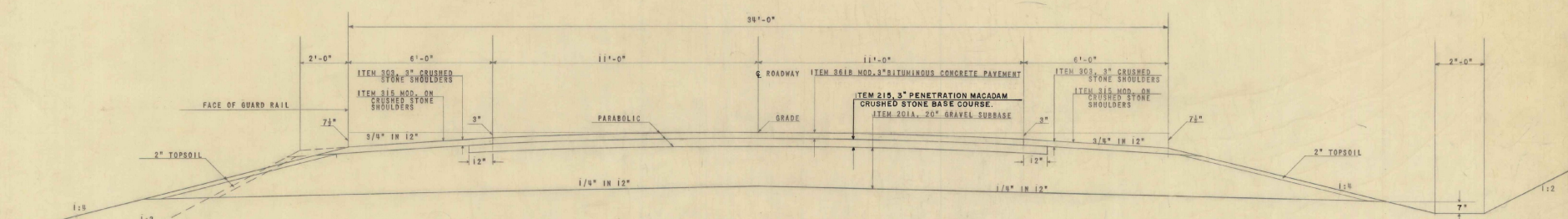
3" BITUMINOUS CONCRETE PAVEMENT, ITEM 3618 MOD. (± 1/4")  
 3" PENETRATION MACADAM CRUSHED STONE BASE COURSE, ITEM 215. (± 1/2")  
 20" SUBBASE OF GRAVEL, ITEM 201A (± 1")  
 3" CRUSHED STONE SHOULDERS, ITEM 303

PERMISSIBLE TOLERANCES IN PARENTHESIS APPLY TO THICKNESS ONLY

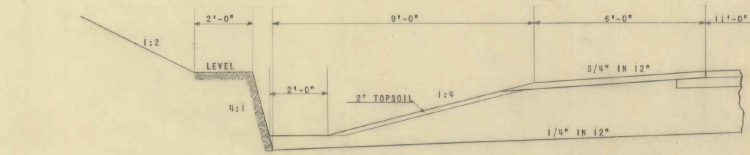
DOUBLE TACK COAT OF BITUMINOUS MATERIAL WITH PEA STONE AND STONE GRITS SEAL, PRIME COAT OF REFINED TAR AND DOUBLE SEAL COAT OF CUTBACK ASPHALT, ITEM 315, MOD. ON CONCRETE CRUSHED STONE SHOULDERS



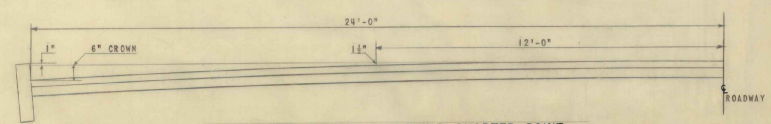
**NORMAL SECTION—**  
 STA 4+15 to STA 12+40 LEFT SIDE  
 STA 4+15 to STA 14+23.90 RIGHT SIDE



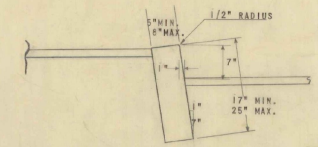
**NORMAL SECTION—FILL & CUT**  
 STA 12+40 to STA 23+00 LEFT SIDE  
 STA 14+23.90 to STA 16+54 RIGHT SIDE (VARIABLE TO 11' WIDTH)  
 STA 16+54 to STA 23+00 RIGHT SIDE  
 STA 23+00 to STA 25+00 (22' WIDE and VARIABLE)



**NORMAL SECTION—ROCK CUT**



**DETAIL FOR PARABOLIC SHOWING QUARTER POINT**



**DETAIL OF GRANITE CURB  
ITEM 556-B**

SEEDING, ITEM 611 (LAWNS)

SEEDING FORMULA AND RATE OF APPLICATION AS FOLLOWS:

%WEIGHT	LBS/ACRE	NAME	%GERM.	%PURITY
18	10	CREeping RED FESCUE	82	97
9	5	RED TOP	90	92
64	35	KENTUCKY BLUE GRASS	77	80
9	5	DUTCH WHITE CLOVER	80	90
			55	

COMMERCIAL FERTILIZER FOR GRASSES WILL BE USED WITH SEEDING, ITEM 611 (LAWNS) AT THE RATE OF 800 POUNDS PER ACRE.

**BUILT AS SHOWN**

**STAGE I CONSTRUCTION**

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN  
 WINOOSKI COLCHESTER

**TYPICAL SECTION  
 U.S. ROUTE 287**

BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.  
 DRAWN BY: H.G.B. IN CHARGE: R.K.  
 CHECKED BY: E.F.C. DATE: JULY 22, 1960 SCALE: 1"=2'  
 PROJECT NO. I 89-3 (15) SHEET 5 OF 150

*Not in 1962*

APPROXIMATE SUMMARY OF QUANTITIES

DETAILED SUMMARY OF QUANTITIES				WINDOSKI RESERVOIR	WINDOSKI INTERCHANGE	BRIDGE	ROUTE 247	INTERSTATE ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.
QUANTITIES	UNIT	ITEMS	OVERLAP	13,000			12,500	75,000	81,000	CY	COMMON EXCAVATION	1014
COMMON EXCAVATION												
86,000	CY	INTERSTATE & INTERCHANGE (4233)			202	63		75,000	81,000	CY	SOLID ROCK EXCAVATION	1015
12,500	CY	ROUTE 247 (1113)						12,500	12,500	CY	TRENCH EXCAVATION OF EARTH	103A
13,000	CY	WINDOSKI RESERVOIR (1000)			500			13,000	13,000	CY	TRENCH EXCAVATION OF ROCK	103B
91,500	CY	TOTAL (4346)						91,500	91,500	CY	SLICING AND GRUBBING (MOD.) 10 ACRES + Incl. Trees	106
SOLID ROCK EXCAVATION												
60,000	CY	INTERSTATE & INTERCHANGE 7404		1,500		395		60,000	60,000	CY	FINE GRADING SUB-GRADE	105
6,000	CY	ROUTE 247 751					50	6,000	6,000	CY	CHANNEL EXCAVATION OF EARTH	105A
66,000	CY	TOTAL 8155					500	66,000	66,000	CY	CHANNEL EXCAVATION OF ROCK (EST.)	105B
TRENCH EXCAVATION OF EARTH												
10,000	CY	INTERSTATE (904)					100	10,000	10,000	CY	STRUCTURE EXCAVATION	107
300	CY	ROUTE 247 (80)					50	300	300	CY	ROADWAY PAVEMENT MAINTENANCE (EST.)	108
83	CY	WINDOSKI INTERCHANGE (7)					500	83	83	CY	W/SALE DUST CONTROL (EST.)	111
202	CY	WINDOSKI RESERVOIR (17)					1,000	202	202	CY	MUCK EXCAVATION (EST.)	116
10,950	CY	TOTAL (1004)					2,000	10,950	10,950	CY	MRS BULLDOZER RENTAL (Est.)	119
TRENCH EXCAVATION OF ROCK												
300	CY	INTERSTATE (33)					18	300	300	CY	SUBBASE OF GRAVEL	201A
500	CY	ROUTE 247 (52)					730	500	500	CY	PERMEATION MACADAM CRUSHED STONE BASE	215
500	CY	WINDOSKI INTERCHANGE (46)					250	500	500	CY	SUBBASE OF CRUSHED ROCK (MOD.) UNDER STRUCTURE	217
1,300	CY	TOTAL (130)					18	1,300	1,300	CY	DOT CONTROL FOR PAVEMENT SURFACES	219
INTERSTATE PAVED DITCHES												
1,000	TON	ROUTE 247 (80)					18	1,000	1,000	TON	GRAVEL OVERHAUL (MOD.) 12 MILES	221
83	CY	WINDOSKI INTERCHANGE (7)					18	83	83	CY	GRAVEL BACKFILL	222
202	CY	WINDOSKI RESERVOIR (17)					400	202	202	CY	STRIPPING OF GRAVEL PITS	223
10,950	CY	TOTAL (1004)					400	10,950	10,950	CY	CRUSHED STONE SHOULDERS	224
TRENCH EXCAVATION OF ROCK												
300	CY	INTERSTATE (33)					18	300	300	CY	DOUBLE T.C. OF BITUMINOUS MATERIAL WITH FEA STONE AND STONE CRUIS SEAL, PRIME COAT OF R.T. AND DOUBLE SEAL COAT OF CUTBACK ASPHALT (MOD.)	315
500	CY	ROUTE 247 (52)					2,875	500	500	CY	GRAVEL GRADER (EST.)	322
500	CY	WINDOSKI INTERCHANGE (46)					125,828	500	500	CY	BITUMINOUS CONCRETE PAVEMENT (MOD.)	347A
1,300	CY	TOTAL (130)					2,150	1,300	1,300	CY	CONCRETE CLASS 3 (MOD.)	351B
BITUMINOUS CONCRETE PAVEMENT												
1,300	TON	ROUTE 247 (100)					201,320	1,300	1,300	TON	REINFORCING STEEL	402
1,300	TON	TOTAL (100)					300,800	1,300	1,300	TON	SPRINKLING SYSTEM & STA. 2248-59, 8000 Lbs.	403
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					5	100	100	C.Y.	STRUCTURAL STEEL	404
100	C.Y.	WINDOSKI RESERVOIR (Est.)					5	100	100	C.Y.	ASPHALTIC ASBESTOS COATING	407
600	C.Y.	TOTAL					5	600	600	C.Y.	CEMENT RUBBLE MASONRY	411
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	6" PLAIN CAST IRON PIPE	412
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	12" REINFORCED CONCRETE PIPE CLASS III	413
600	C.Y.	TOTAL					100	600	600	C.Y.	18" REINFORCED CONCRETE PIPE CLASS III	414
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	24" REINFORCED CONCRETE PIPE CLASS III	415
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	30" REINFORCED CONCRETE PIPE CLASS III	416
600	C.Y.	TOTAL					100	600	600	C.Y.	18" SPECIAL A.C.C.G.M.P. ELBOW	417
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	18" A.C.C.G.M.P.	418
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	24" A.C.C.G.M.P.	419
600	C.Y.	TOTAL					100	600	600	C.Y.	30" A.C.C.G.M.P.	420
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	58" X 36" A.C.C.G.M.P. ARCH	421
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	RELAYING PIPE CULVERTS (EST.)	428
600	C.Y.	TOTAL					100	600	600	C.Y.	RELAYING PIPE CULVERTS (EST.)	428
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	STEEL PILING	504
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/COVER (EST.)	507
600	C.Y.	TOTAL					100	600	600	C.Y.	FAST IRON DROP INLET GRATES	508
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/COVER (EST.)	507
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	FAST IRON DROP INLET GRATES	508
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600	C.Y.	TOTAL					100	600	600	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/COVER (EST.)	507
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/COVER (EST.)	507
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	FAST IRON DROP INLET GRATES	508
600	C.Y.	TOTAL					100	600	600	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/COVER (EST.)	507
GRAVEL BACKFILL												
100	C.Y.	INTERSTATE & INTERCHANGE BRIDGE					100	100	100	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/COVER (EST.)	507
100	C.Y.	WINDOSKI RESERVOIR (Est.)					100	100	100	C.Y.	FAST IRON DROP INLET GRATES	508
600	C.Y.	TOTAL					100	600	600	C.Y.	PRECAST REINFORCED CONCRETE PIPE DROP INLET W	



# FINAL EARTHWORK SUMMARY SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

NOTES	STATIONS	TOTAL EXCAVATION			ROCK			EMBANKMENT			103-A			NOTES	COLUMN SUMMARY								
		DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE	DESIGN	FINAL	DIFFERENCE		DESIGN	FINAL	DIFFERENCE	SHEET	COLUMN	EXCAVATION	ROCK	FILL	UNIMPROVED
North Bound Ave	2204+00 2205+00		1,001'				3,166'											I	28,341'		18,774'		
South Bound Concrete	2205+00 2206+00		14,657'				38,478'											II			124,878'		2,328'
	2206+00 2207+00		1,173'				1,807'											III	43,986'	25,170'	29,422'	1,236'	3,500'
	2207+00 2208+00		874'				13,402'											IV	14,332'	9,707'		316'	110'
	2208+00 2209+00						20,381'											V	2,258'	7,226'			
	2209+00 2210+00						13,574'											VI	1,431'	1,521'			
	2210+00 2211+00						10,585'											VII	48,677'	28,090'		1,201'	287'
	2211+00 2212+00						13,621'											VIII			8,233'		610'
	2212+00 2213+00						57,667'											IX	13,365'	2,274'	2,353'	63'	145'
	2213+00 2214+00	2,361'		2,226'			46,798'		92'			152'											
	2214+00 2215+00	5,111'		1,772'			10,501'		90'			327'											
	2215+00 2216+00	19,703'		11,606'			4,225'		532'			1,432'											
	2216+00 2217+00	10,522'		6,874'					343'			376'											
South Bound																							
	2217+00 2218+00	2,040'		463'			1,325'		12'			88'											
	2218+00 2219+00	3,660'		2,227'			162'		112'			725'											
North Bound																							
	2219+00 2220+00	7,120'		2,531'					132'			384'											
	2220+00 2221+00	5,145'		3,662'					104'			727'											
Ramp A																							
	14+50 15+00	110'		33'					2'			57'											
	15+00 20+00	9,248'		5,113'					206'			231'											
	20+00 25+00	5,274'		1,533'					44'			155'											
	25+00 26+50	2,212'		599'					24'			17'											
Ramp B																							
	8+87 10+00	4,653'		3,223'					164'			309'											
	10+00 15+00	21,859'		13,044'					531'			748'											
	15+00 17+50	1,672'																					
Ramp C																							
	3+00 37+00						314'																
Ramp D																							
	10+30 15+00						183'																
	15+00 21+00						326'																
US RES #28*9							2,855'																
	4+15 5+00						677'																
	5+00 10+00						3,221'																
	10+00 15+00						482'																
	15+00 20+00						3,557'					204'											
	20+00 25+00						517'					220'											
ADDITIONAL North Road EXCAV. 111	Below Subgrade																						
North Bound	2247+78 2266+78		1,522'				1,522'																
South Bound	2257+78 2265+78		758'				758'																
Ramp A	14+30 26+50		1,212'				1,212'																
Ramp B	14+00 15+50		195'				195'																
Re's #28*9	10+25 23+50		1,386'				1,386'																
TOTALS		147,961'		62,023'			242,526'		2,296'			70,322'											



# FINAL EARTHWORK SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

Col. IV

Left Side														Right Side													
STATION		TOTAL EXCAV EARTH & ROCK		ROCK		TOTAL CHANGEMASS		SURPRISED		UNANNOUNCED		STATION		TOTAL EXCAV EARTH & ROCK		ROCK		TOTAL EXCAV EARTH & ROCK		ROCK		TOTAL EXCAV EARTH & ROCK		ROCK			
DIST	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	DIST	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS		
226140	54'	153	676'	96	190	34'	150						226140	0	0												
50	492'	837	292'	557	100	27'	72						226150	25	9												
150	495'	837	305'	557	100	27'	72						226160	50	20	30	30										
250	513'	813	300'	513	90	24'	60						150	21	9	21	21										
350	305'	547	24'	305	0	0	0						226170	25	9												
450	441'	707	305'	342	0	0	0						226180	50	20	30	30										
550	442'	707	305'	342	0	0	0						150	21	9	21	21										
650	442'	707	305'	342	0	0	0						226190	25	9												
750	442'	707	305'	342	0	0	0						150	21	9	21	21										
850	442'	707	305'	342	0	0	0						226200	50	20	30	30										
950	442'	707	305'	342	0	0	0						150	21	9	21	21										
1050	442'	707	305'	342	0	0	0						226210	25	9												
1150	442'	707	305'	342	0	0	0						150	21	9	21	21										
1250	442'	707	305'	342	0	0	0						226220	50	20	30	30										
1350	442'	707	305'	342	0	0	0						150	21	9	21	21										
1450	442'	707	305'	342	0	0	0						226230	25	9												
1550	442'	707	305'	342	0	0	0						150	21	9	21	21										
1650	442'	707	305'	342	0	0	0						226240	50	20	30	30										
1750	442'	707	305'	342	0	0	0						150	21	9	21	21										
1850	442'	707	305'	342	0	0	0						226250	25	9												
1950	442'	707	305'	342	0	0	0						150	21	9	21	21										
2050	442'	707	305'	342	0	0	0						226260	50	20	30	30										
2150	442'	707	305'	342	0	0	0						150	21	9	21	21										
2250	442'	707	305'	342	0	0	0						226270	25	9												
2350	442'	707	305'	342	0	0	0						150	21	9	21	21										
2450	442'	707	305'	342	0	0	0						226280	50	20	30	30										
2550	442'	707	305'	342	0	0	0						150	21	9	21	21										
2650	442'	707	305'	342	0	0	0						226290	25	9												
2750	442'	707	305'	342	0	0	0						150	21	9	21	21										
2850	442'	707	305'	342	0	0	0						226300	50	20	30	30										
2950	442'	707	305'	342	0	0	0						150	21	9	21	21										
3050	442'	707	305'	342	0	0	0						226310	25	9												
3150	442'	707	305'	342	0	0	0						150	21	9	21	21										
3250	442'	707	305'	342	0	0	0						226320	50	20	30	30										
3350	442'	707	305'	342	0	0	0						150	21	9	21	21										
3450	442'	707	305'	342	0	0	0						226330	25	9												
3550	442'	707	305'	342	0	0	0						150	21	9	21	21										
3650	442'	707	305'	342	0	0	0						226340	50	20	30	30										
3750	442'	707	305'	342	0	0	0						150	21	9	21	21										
3850	442'	707	305'	342	0	0	0						226350	25	9												
3950	442'	707	305'	342	0	0	0						150	21	9	21	21										
4050	442'	707	305'	342	0	0	0						226360	50	20	30	30										
4150	442'	707	305'	342	0	0	0						150	21	9	21	21										
4250	442'	707	305'	342	0	0	0						226370	25	9												
4350	442'	707	305'	342	0	0	0						150	21	9	21	21										
4450	442'	707	305'	342	0	0	0						226380	50	20	30	30										
4550	442'	707	305'	342	0	0	0						150	21	9	21	21										
4650	442'	707	305'	342	0	0	0						226390	25	9												
4750	442'	707	305'	342	0	0	0						150	21	9	21	21										
4850	442'	707	305'	342	0	0	0						226400	50	20	30	30										
4950	442'	707	305'	342	0	0	0						150	21	9	21	21										
5050	442'	707	305'	342	0	0	0						226410	25	9												
5150	442'	707	305'	342	0	0	0						150	21	9	21	21										
5250	442'	707	305'	342	0	0	0						226420	50	20	30	30										
5350	442'	707	305'	342	0	0	0						150	21	9	21	21										
5450	442'	707	305'	342	0	0	0						226430	25	9												
5550	442'	707	305'	342	0	0	0						150	21	9	21	21										
5650	442'	707	305'	342	0	0	0						226440	50	20	30	30										
5750	442'	707	305'	342	0	0	0						150	21	9	21	21										
5850	442'	707	305'	342	0	0	0						226450	25	9												
5950	442'	707	305'	342	0	0	0						150	21	9	21	21										
6050	442'	707	305'	342	0	0	0						226460	50	20	30	30										
6150	442'	707	305'	342	0	0	0						150	21	9	21	21										
6250	442'	707	305'	342	0	0	0						226470	25													

# FINAL EARTHWORK SHEET

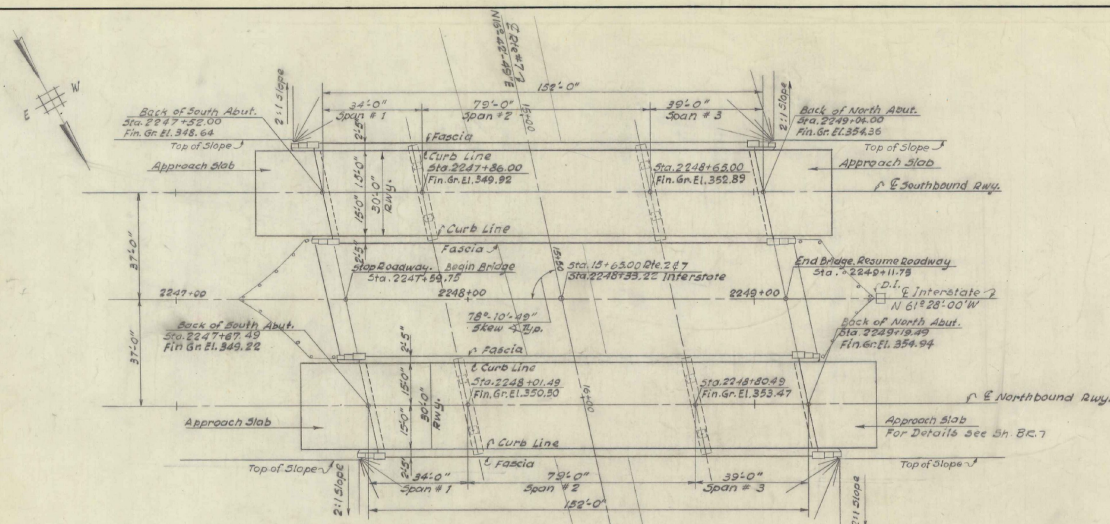
STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

*Col. VIII*

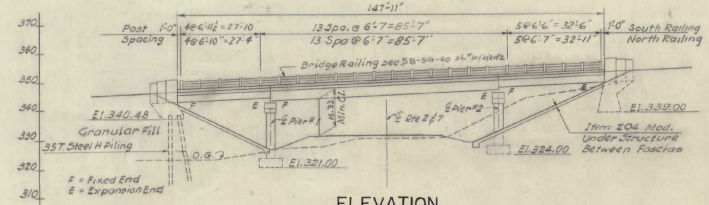
*Col. VIII*

*Col. VIII*

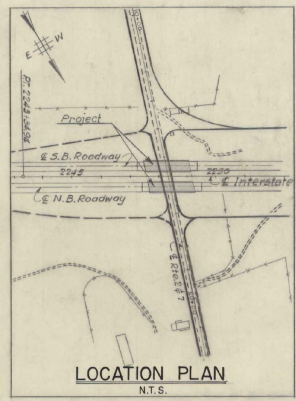
<i>Col. VIII</i>										<i>Col. VIII</i>										<i>Col. VIII</i>									
STATION		DIST		TOTAL EXCAV. EARTH & ROCK		ROCK		+ Fill		EARTHWORK		103-A		STATION		DIST		TOTAL EXCAV. EARTH & ROCK		ROCK		+ Fill		EARTHWORK		103-A			
AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS	AREA	CU YDS		
<i>Range A</i>																													
11430	47	110	13	33	30	53	2	51	110	30150				11430	47	110	13	33	30	53	2	51	110	30150					
<i>Range B</i>																													
11430	50	110	13	33	30	53	2	51	110	30150				11430	50	110	13	33	30	53	2	51	110	30150					
<i>Range C</i>																													
11430	53	110	13	33	30	53	2	51	110	30150				11430	53	110	13	33	30	53	2	51	110	30150					
<i>Range D</i>																													
11430	56	110	13	33	30	53	2	51	110	30150				11430	56	110	13	33	30	53	2	51	110	30150					
<i>Range E</i>																													
11430	59	110	13	33	30	53	2	51	110	30150				11430	59	110	13	33	30	53	2	51	110	30150					
<i>Range F</i>																													
11430	62	110	13	33	30	53	2	51	110	30150				11430	62	110	13	33	30	53	2	51	110	30150					
<i>Range G</i>																													
11430	65	110	13	33	30	53	2	51	110	30150				11430	65	110	13	33	30	53	2	51	110	30150					
<i>Range H</i>																													
11430	68	110	13	33	30	53	2	51	110	30150				11430	68	110	13	33	30	53	2	51	110	30150					
<i>Range I</i>																													
11430	71	110	13	33	30	53	2	51	110	30150				11430	71	110	13	33	30	53	2	51	110	30150					
<i>Range J</i>																													
11430	74	110	13	33	30	53	2	51	110	30150				11430	74	110	13	33	30	53	2	51	110	30150					
<i>Range K</i>																													
11430	77	110	13	33	30	53	2	51	110	30150				11430	77	110	13	33	30	53	2	51	110	30150					
<i>Range L</i>																													
11430	80	110	13	33	30	53	2	51	110	30150				11430	80	110	13	33	30	53	2	51	110	30150					
<i>Range M</i>																													
11430	83	110	13	33	30	53	2	51	110	30150				11430	83	110	13	33	30	53	2	51	110	30150					
<i>Range N</i>																													
11430	86	110	13	33	30	53	2	51	110	30150				11430	86	110	13	33	30	53	2	51	110	30150					
<i>Range O</i>																													
11430	89	110	13	33	30	53	2	51	110	30150				11430	89	110	13	33	30	53	2	51	110	30150					
<i>Range P</i>																													
11430	92	110	13	33	30	53	2	51	110	30150				11430	92	110	13	33	30	53	2	51	110	30150					
<i>Range Q</i>																													
11430	95	110	13	33	30	53	2	51	110	30150				11430	95	110	13	33	30	53	2	51	110	30150					
<i>Range R</i>																													
11430	98	110	13	33	30	53	2	51	110	30150				11430	98	110	13	33	30	53	2	51	110	30150					
<i>Range S</i>																													
11430	101	110	13	33	30	53	2	51	110	30150				11430	101	110	13	33	30	53	2	51	110	30150					
<i>Range T</i>																													
11430	104	110	13	33	30	53	2	51	110	30150				11430	104	110	13	33	30	53	2	51	110	30150					
<i>Range U</i>																													
11430	107	110	13	33	30	53	2	51	110	30150				11430	107	110	13	33	30	53	2	51	110	30150					
<i>Range V</i>																													
11430	110	110	13	33	30	53	2	51	110	30150				11430	110	110	13	33	30	53	2	51	110	30150					
<i>Range W</i>																													
11430	113	110	13	33	30	53	2	51	110	30150				11430	113	110	13	33	30	53	2	51	110	30150					
<i>Range X</i>																													
11430	116	110	13	33	30	53	2	51	110	30150				11430	116	110	13	33	30	53	2	51	110	30150					
<i>Range Y</i>																													
11430	119	110	13	33	30	53	2	51	110	30150				11430	119	110	13	33	30	53	2	51	110	30150					
<i>Range Z</i>																													
11430	122	110	13	33	30	53	2	51	110	30150				11430	122	110	13	33	30	53	2	51	110	30150					
<i>Range AA</i>																													
11430	125	110	13	33	30	53	2	51	110	30150				11430	125	110	13	33	30	53	2	51	110	30150					
<i>Range AB</i>																													
11430	128	110	13	33	30	53	2	51	110	30150				11430	128	110	13	33	30	53	2	51	110	30150					
<i>Range AC</i>																													
11430	131	110	13	33	30	53	2	51	110	30150				11430	131	110	13	33	30	53	2	51	110	30150					
<i>Range AD</i>																													
11430	134	110	13	33	30	53	2	51	110	30150				11430	134	110	13	33	30	53	2	51	110	30150					
<i>Range AE</i>																													
11430	137	110	13	33	30	53	2	51	110	30150				11430	137	110	13	33	30	53	2	51	110	30150					
<i>Range AF</i>																													
11430	140	110	13	33	30	53	2	51	110	30150				11430	140	110	13	33	30	53	2	51	110	30150					
<i>Range AG</i>																													
11430	143	110	13	33	30	53	2	51	110	30150				11430	143	110	13	33	30	53	2	51	110	30150					
<i>Range AH</i>																													
11430	146	110	13	33	30	53	2	51	110	30150				11430	146	110	13	33	30	53	2	51	110	30150					
<i>Range AI</i>																													
11430	149	110	13	33	30	53	2	51	110	30150				11430	149	110	13	33	30	53	2	51	110	30150					
<i>Range AJ</i>																													
11430	152	110	13	33	30	53	2	51	110	30150				11430	152	110	13	33	30	53	2	51	110	30150					
<i>Range AK</i>																													
11430	155	110	13	33	30	53	2	51	110	30150				11430	155	110	13	33	30	53	2	51	110	30150					
<i>Range AL</i>																													
11430	158	110	13	33	30	53	2	51	110	30150				11430	158	110	13	33	30	53	2	51	110	30150					
<i>Range AM</i>																													
11430	161	110	13	33	30	53	2	51	110	30150				11430	161	110	13	33	30	53	2	51	110	30150					
<i>Range AN</i>																													
11430	164	110	13	33	30	53	2	51	110	30150				11430	164	110	13	33	30	53	2	51	110	30150					
<i>Range AO</i>																													
11430	167	110	13	33	30	53	2	51	110	30150				11430	167	110	13	33	30	53	2	51	110	30150					
<i>Range AP</i>																													
11430	170	110	13	33	30	53	2	51	110	30150				11430	170	110	13	33	30	53	2	51	110	30150					
<i>Range AQ</i>																													
11430	173	110	13	33	30	53	2	51	110	30150				11430	173	110	13	33	30	53	2	51	110	30150					
<i>Range AR</i>																													
11430	176	110	13	33	30	53	2	51	110	30150				11430	176	110	13	33	30	53	2	51	110	30150					



PLAN  
SCALE 1"=20'-0"



ELEVATION  
SCALE 1"=20'-0"  
(NORTHBOUND)

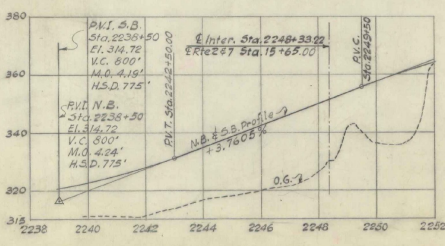


REFERENCE DRAWINGS:

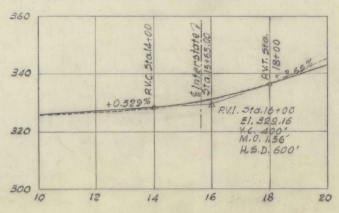
- Plan Interstate 267 3 1/2" x 14"
- Profile Interstate 267 3 1/2" x 20"
- Cross Section Interstate 267 3 1/2" x 14 to 67"
- Plan Route 267 3 1/2" x 14 to 17"
- Profile Route 267 3 1/2" x 16 to 31 1/2"
- Cross Section Route 267 3 1/2" x 78 to 83"

LIST OF DRAWINGS:

- General Plan & Elevation 3 1/2" x 8 E 1
- Pier Elevations 3 1/2" x 8 E 2
- Typical Pier Details 3 1/2" x 8 E 3
- South Abutment Details 3 1/2" x 8 E 4
- North Abutment Details 3 1/2" x 8 E 5
- Framing Plan 3 1/2" x 8 E 6
- Approach Slabs 3 1/2" x 8 E 7
- Boring Logs 3 1/2" x 8 E 8
- Bar Schedule 3 1/2" x 8 E 9
- Preliminary Information Sheet 3 1/2" x 8 E 10
- SCB-30-60 3 1/2" x 13 E
- SCB-D-60 3 1/2" x 13 E 1
- SB-50-40 10 ft x 2 ft 3 1/2" x 13 E 2
- SB-20-60 3 1/2" x 13 E 3
- SB-22-60 3 1/2" x 14 E



INTERSTATE PROFILE  
SCALE 1"=100'  
VERT. 1"=10'



U.S. ROUTE 2 & 7 PROFILE  
SCALE HOR. 1"=100'  
VERT. 1"=10'

ITEM #	ITEM	UNIT	NORTH BOUND		SOUTH BOUND		TOTAL	M. & S. B. TOTAL	X5
			NEAR	OVER	NEAR	OVER			
107	Structure Excavation	C.Y.	772	772	198	198	144	144	150
204	Subbase of Crushed Rock (Mod. Under Structure)	C.Y.	72	72	72	72	144	144	150
282	Gravel Backfill	C.Y.	77	77	77	77	154	154	150
318	Ton Emulsion for Bridge Floors (Std. App. Slab)	Ton	265	265	265	265	530	530	150
361B	Blt. Conc. Pav't (Incl. App. Slab) Mod.	Ton	75	75	75	75	150	150	150
401B	Concrete Class 'B' Mod. (Incl. App. Slab)	C.Y.	397	397	397	397	794	794	150
402	Reinforcing Steel (Incl. App. Slab)	Lb.	61906	61906	61906	61906	123812	123812	150
403	Spiral Reinforcement (38, 330")	L.S.	Required	Required	Required	Required	Required	Required	150
404A	Structural Steel	Lb.	157007	157007	157007	157007	314014	314014	150
407	Asphaltic-Asbestos Coating	S.Y.	32	32	32	32	64	64	150
501	Furnishing Equipment for Driving Piles	L.S.	Required	Required	Required	Required	Required	Required	150
303	Splices for Steel Piling	Eq.	2	2	2	2	4	4	150
304	Steel Piling (28E53)	L.F.	300	300	300	300	600	600	150
550C	Granite Bridge Curb Mod.	L.F.	334	334	334	334	668	668	150
572	Bridge Railing	L.F.	225	225	225	225	450	450	150
372	Joint Coaler Hot Poured Elastic Type	L.F.	123	123	123	123	246	246	150

GENERAL NOTES:

1. All materials and construction shall conform to the State of Vermont Department of Highways, Standard Specifications for Road and Bridge Construction dated Jan. 1956 and the A.A.S.H.O. Standard Specifications dated 1957. Designed for 1120-516-44 loading modified for National System of Interstate Highways applied in accordance with the provision of the A.A.S.H.O. Standard Specification, Article 1.2.8.
2. Cross slope of approach slab to conform with the cross slope of bridge.
3. Final coat of field paint shall be green, unless otherwise directed by the Engineer.
4. All stations referred to Interstate base line between the two roadways.
5. All dimensions given are measured horizontally or vertically unless otherwise noted.
6. All dimensions given at 68°F.
7. All reinforcing to have a clear cover of 3" unless otherwise noted.
8. All exposed edges of concrete shall be chamfered 1/4" unless otherwise noted.
9. Borings indicated on the drawings have been made for design purposes only and are not warranted to show actual subsurface conditions.
10. Elevation Datum sea level based on bench line U.S.C.G.S. Survey level line Vermont 25 (Second Order).
11. Unless otherwise called for all beams shall be rolled to a true circular camber the middle ordinate being that shown in A.I.S.C. handbook as being the minimum camber likely to remain permanent.
12. Steel bearing piles shall be driven to ledge rock unless otherwise approved by the Engineer. When piles are driven in fill, the material should be such as to have no stones large enough to interfere with the driving of piles.
13. The top surface of all piers and abutments shall be sloped 4" per foot from the back edge of abutments or centerlines of piers except for bearing pads projecting 1" or more above the general area, which surfaces shall be level. The entire exposed top surface of abutments & piers shall be coated with Asphaltic-Asbestos Coating 1/2" thick as per Item 4.07 of the specifications.
14. Where rock is encountered, no footings shall be poured until all blasting in an area 300 ft. from the structure has been completed.

BR 1 of 10

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

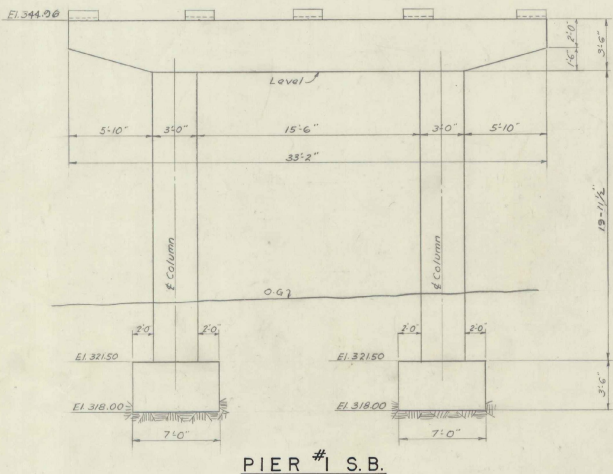
INTERSTATE PROJECT IN THE TOWNS OF  
WINOOSKI, COLCHESTER

OVERPASS STA. 2248+33.22  
U.S. ROUTE 2 & 7  
GENERAL PLAN & ELEVATION

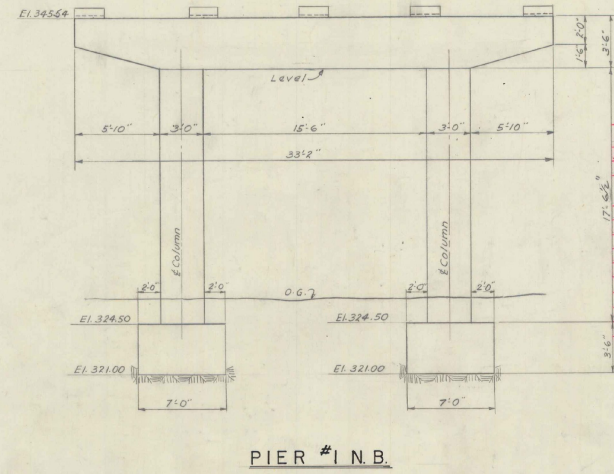
BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.

DRAWN BY B.S.C. IN CHARGE A.W.I. SCALE AS SHOWN  
CHECKED BY B.S. DATE

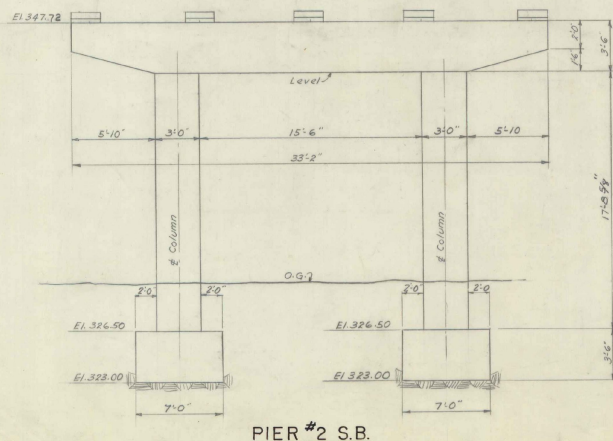
PROJECT NO. 189-3(16) SHEET 120 OF 150



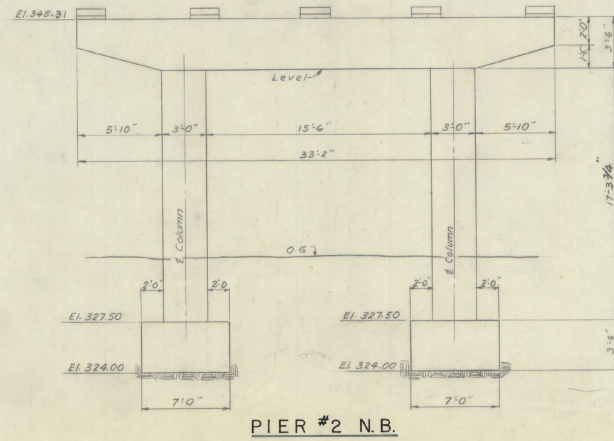
PIER #1 S.B.



PIER #1 N.B.



PIER #2 S.B.



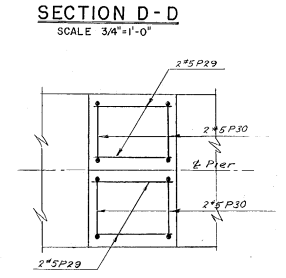
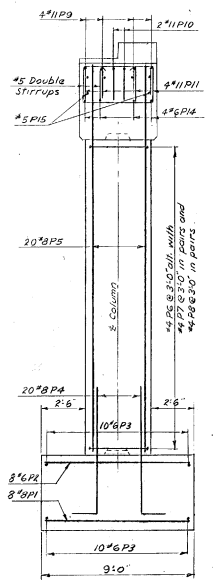
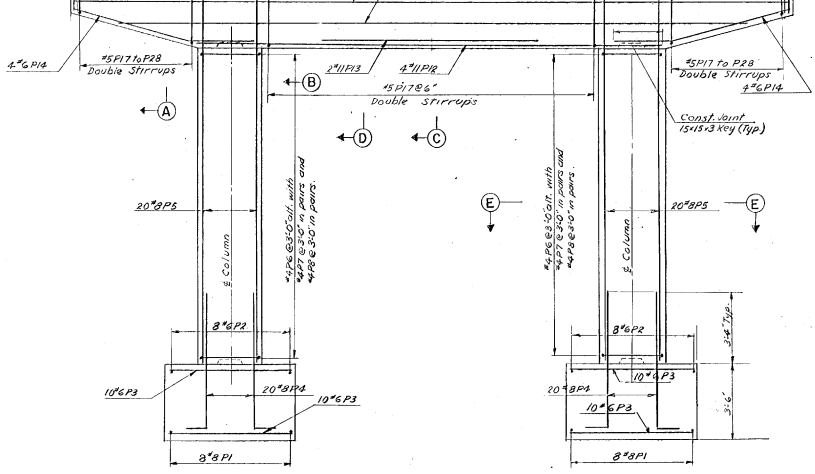
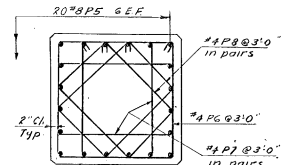
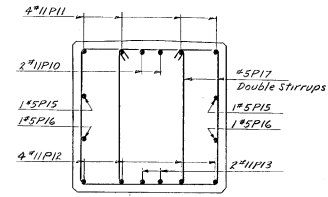
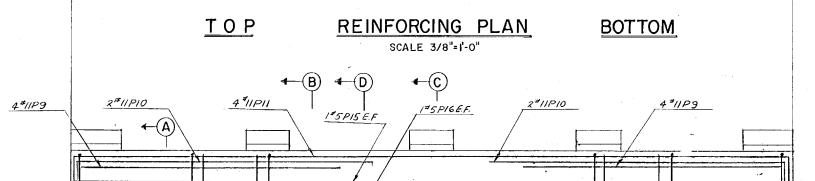
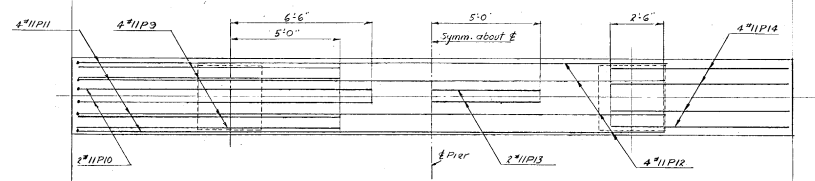
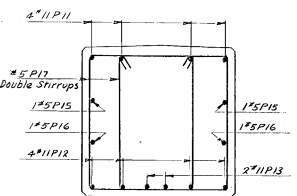
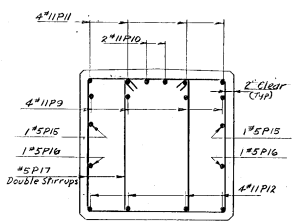
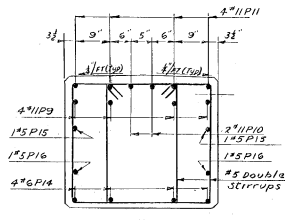
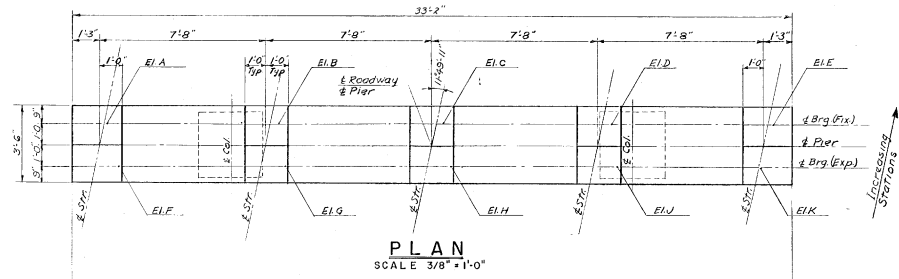
PIER #2 N.B.

		ESTIMATED QUANTITIES						
		PIER #1			PIER #2			
ITEM #	ITEM	UNIT	NEAT	OVERRUN	TOTAL	NEAT	OVERRUN	TOTAL
34	Structure Excavation	C.Y.	44	4	48	40	3	43
401B	Concrete Class B (Modified)	C.Y.	44	4	48	40	2	42
402	Reinforcing Steel	Lbs.	see Bar Schedule	Sheet # B29		see Bar Schedule	Sheet # B29	
407	Asphaltic Asbestos Coating	S.Y.	43	-	43	43	-	43
		SOUTH BOUND						
107	Structure Excavation	C.Y.	44	4	48	40	3	43
401B	Concrete Class B (Modified)	C.Y.	44	4	48	40	2	42
402	Reinforcing Steel	Lbs.	see Bar Schedule	Sheet # B29		see Bar Schedule	Sheet # B29	
407	Asphaltic Asbestos Coating	S.Y.	43	-	43	43	-	43

- NOTES
- For General Notes see Sheet B21
  - For Pier Details see Sheet B23
  - All elevations looking toward increasing stations.
  - For bearing elevations see sheet #122
  - Maximum allowable footing pressure equals 5 tons/sq ft
  - Footings shall be constructed entirely on ledge unless otherwise directed in writing by the engineer.

BE. 2 of 10

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
INTERSTATE PROJECT IN THE TOWNS OF WINOOSKI, COLCHESTER	
OVERPASS STA. 2248 +33.22 U.S. ROUTE 2 & 7 PIER ELEVATIONS	
BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.	
DRAWN BY	IN CHARGE
CHECKED BY	DATE
SCALE 1/4" = 1'-0"	
PROJECT NO. J 89-3 (13)	SHEET 121 OF 120



BEARING ELEVATIONS				
ELEV.	NORTH BOUND	SOUTH BOUND	PIER #2	
A	345.71	349.08	345.13	348.50
B	346.05	349.42	345.47	348.84
C	346.21	349.58	345.63	349.00
D	346.17	349.54	345.59	348.96
E	345.95	349.32	345.36	348.74
F	346.30	349.67	345.72	349.10
G	346.64	349.99	346.05	349.43
H	346.80	350.17	346.22	349.60
J	346.76	350.13	346.18	349.56
K	346.54	349.71	345.94	349.13

- NOTES
- For General Notes see Sheet #BR.1
  - For pier elevations see sheet #BR.2
  - For estimate of quantities see sheet #BR.2
  - For finish grade elevations & centerlines of piers see sheet #BR.1

BR. 3 of 10

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

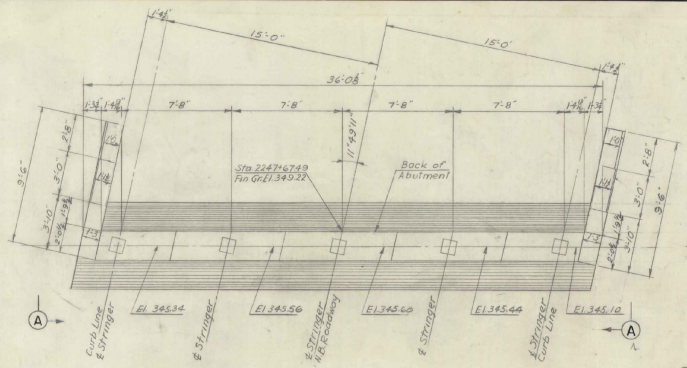
INTERSTATE PROJECT IN THE TOWNS OF  
WINOOSKI, COLCHESTER.

OVERPASS STA. 2248+33.22  
U.S. ROUTE 2 & 7  
TYPICAL PIER DETAILS

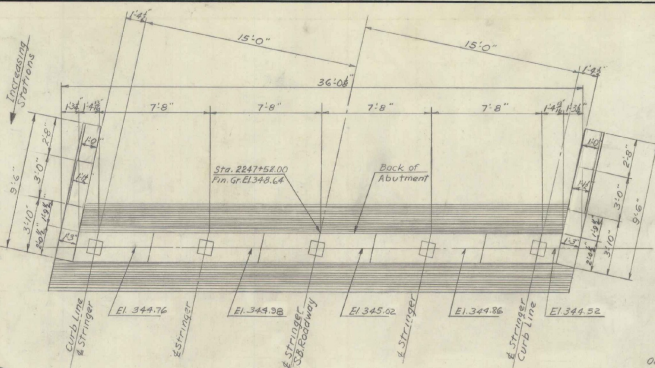
BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.

DRAWN BY: *AE* IN CHARGE: *XX*  
CHECKED BY: *D.B.* DATE: \_\_\_\_\_ SCALE AS SHOWN

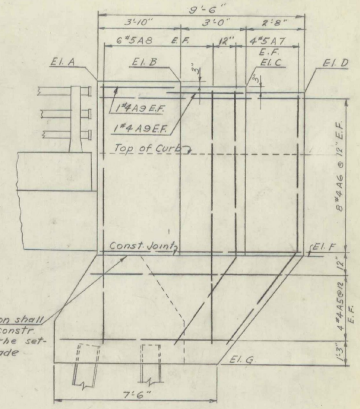
PROJECT NO. 109-3(4) SHEET 122 OF 150



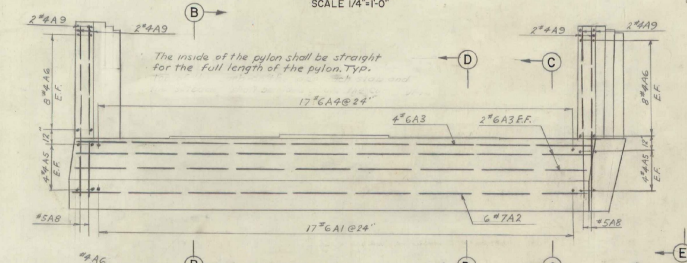
**PLAN (N.B.)**  
SCALE 1/4"=1'-0"



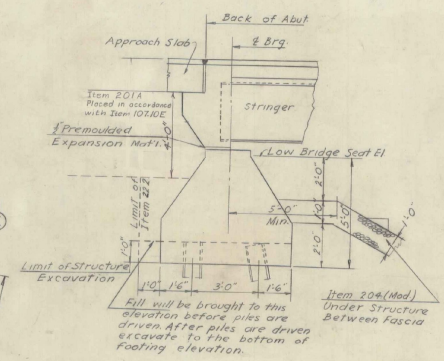
**PLAN (S.B.)**  
SCALE 1/4"=1'-0"



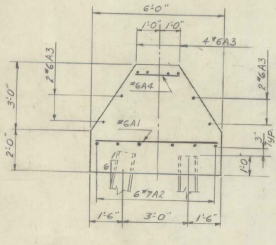
**SECTION E-E**  
SCALE 3/8"=1'-0"



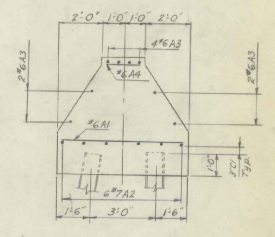
**ELEVATION A-A**  
SCALE 1/4"=1'-0"



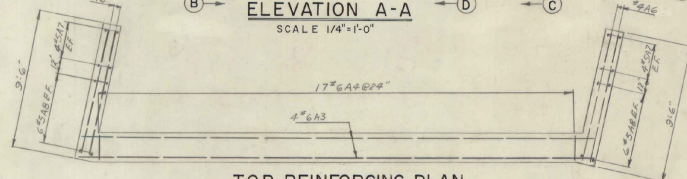
**SECTION B-B**  
SCALE 3/8"=1'-0"



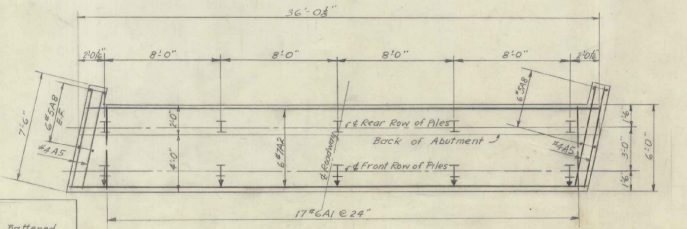
**SECTION C-C**  
SCALE 3/8"=1'-0"



**SECTION D-D**  
SCALE 3/8"=1'-0"



**TOP REINFORCING PLAN**  
SCALE 1/4"=1'-0"



**BOTTOM REINFORCING & PILE PLAN**  
SCALE 1/4"=1'-0"

**NOTE!**  
 5 Piles Battered  
 5 Piles Vertical  
 10-35" Steel Piles Each Abutment  
 Estimate Average Pile Length  
 Northbound 30'  
 Southbound 28'

ELEV.	NORTH BOUND		SOUTH BOUND	
	LEFT PYLON	RIGHT PYLON	LEFT PYLON	RIGHT PYLON
A	353.11	352.37	352.53	352.78
B	352.91	352.22	352.38	352.64
C	352.60	352.86	352.02	352.28
D	352.25	352.51	351.67	351.93
F	345.10	345.34	344.92	344.76
G	340.10	340.10	339.62	339.52

FINAL N.Bnd.	ITEM #	ITEM	UNIT	NORTH BOUND		SOUTH BOUND		FINAL S.Bnd.
				NEAT	OVERRUN TOTAL	NEAT	OVERRUN TOTAL	
11	107	Structure Excavation	C.Y.	22	22	22	22	11
41	401B	Concrete Class B (Mod)	C.Y.	40	42	40	42	41
1805	402	Reinforcing Steel	Lbs.	See Bar Schedule	Sheet # B29	See Bar Schedule	Sheet # B29	1819
33	407	Asphaltic Asbestos Coating	S.Y.	4	4	4	4	33
0	503	Splices for Steel Piling	Ea.	-	2	2	2	0
273	504	Steel H Piling (188P53)	L.F.	300	300	300	300	273
12	222	Gravel Backfill	C.Y.	12	12	12	12	12

**NOTES**  
 1 For General Notes see Sheet #BR1  
 2 For Additional Details see SB#407-38-22-60  
 3 Left and Right are determined by looking toward increasing stations.  
 4 # Indicates Piles Battered.

BR 4 of 10

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF  
 WINOOSKI, COLCHESTER

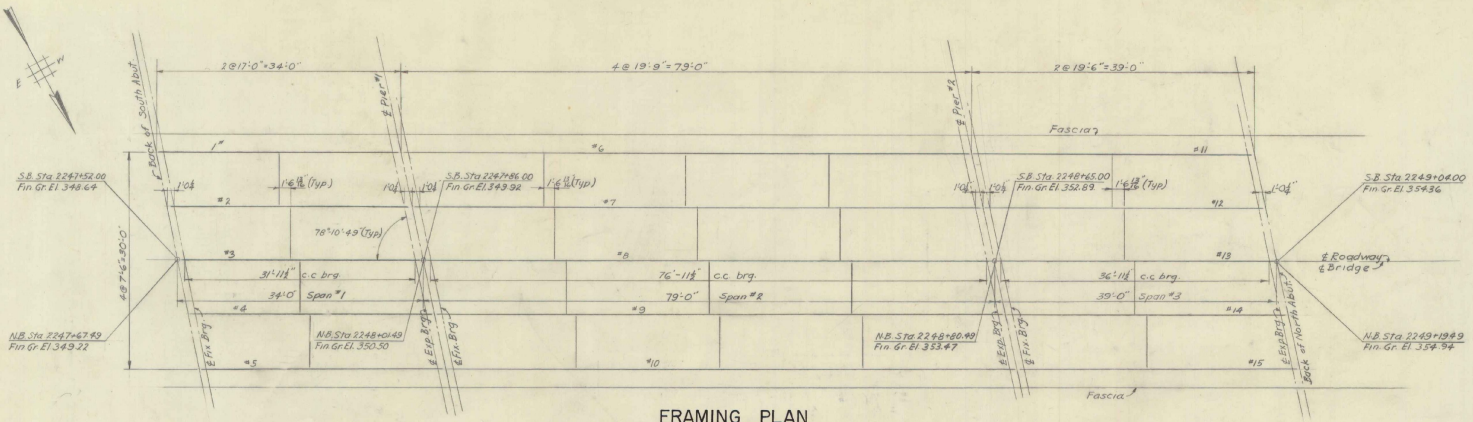
OVERPASS STA. 2248+33.22  
 U.S. ROUTE 2 & 7  
**SOUTH ABUTMENTS DETAILS**

BOSWELL ENGINEERING CO. RIDGFIELD PARK, N.J.

DRAWN BY: [Signature] IN CHARGE: [Signature] SCALE AS SHOWN  
 CHECKED BY: [Signature] DATE: [Date]

PROJECT NO. 189-3(6) SHEET 127 OF 150





**FRAMING PLAN**  
SCALE 1/8"=1'-0"

		ESTIMATED QUANTITIES							
		NORTH BOUND				SOUTH BOUND			
ITEM #	ITEM	UNIT	NEAT	OVERRUN	TOTAL	UNIT	NEAT	OVERRUN	TOTAL
	FRAMING PLAN								
403	SPIRAL REINFORCING #3	lbs	181907	3038	184945	165	151907	3038	154945
404A	Structural Steel								
									300,405

- NOTES**
- For General Notes see 56\*00.1
  - For additional details see 56\*50-55-56-57-58-59-60
  - For Superstructure details see 56\*50-55-56-57-58-59-60

BR 6 of 10

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF  
WINOOSKI, COLCHESTER

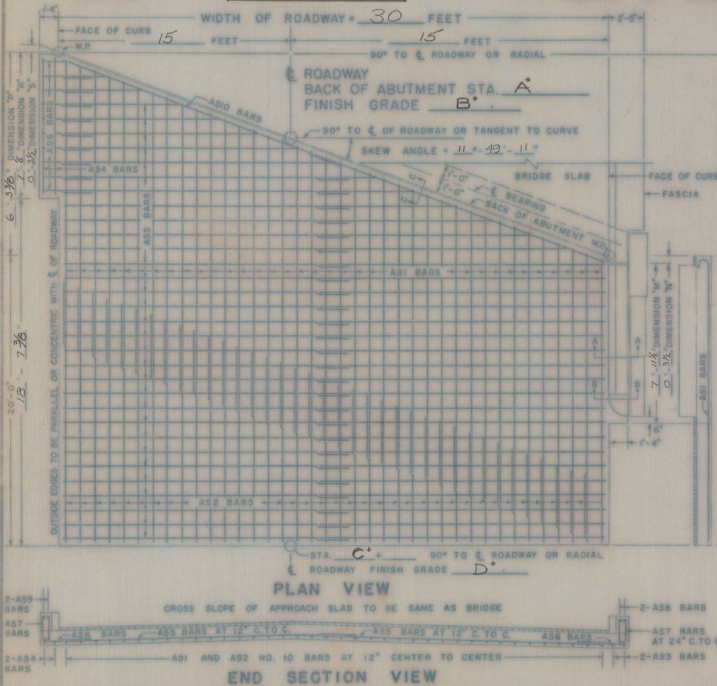
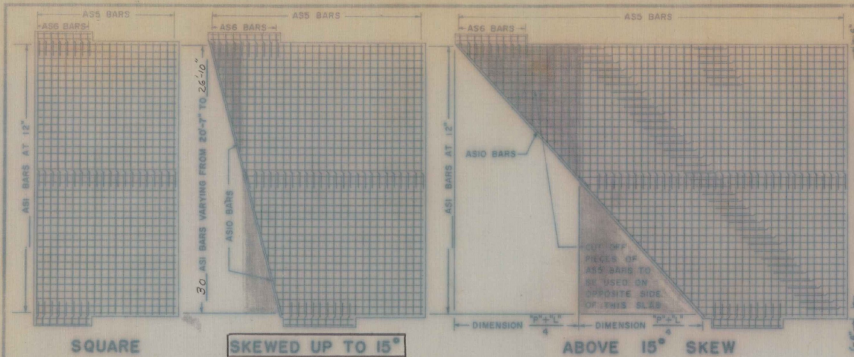
OVERPASS STA. 2248+33.22  
U.S. ROUTE 2 & 7

**FRAMING PLAN**

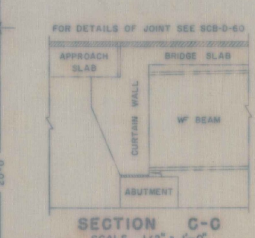
BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.

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CHECKED BY: *AS* DATE: \_\_\_\_\_ SCALE AS SHOWN

PROJECT NO. I 89-3(6) SHEET 125 OF 150



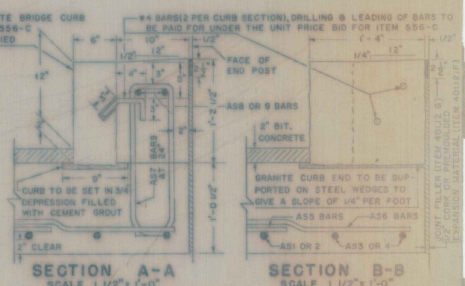
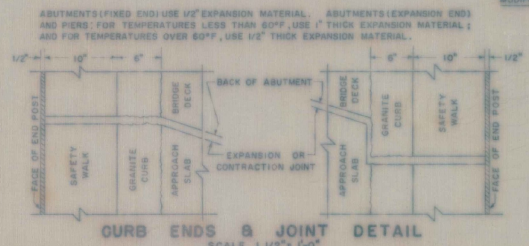
* NORTH BOUND		* SOUTH BOUND	
APPR #1	APPR #2	APPR #1	APPR #2
A 2247+7.93	2247+7.93	2247+22.00	2247+22.00
B 349.22	354.04	348.64	354.36
C 2247+44.35	2247+42.63	2247+28.80	2247+27.18
D 348.35	355.61	347.77	355.23



30' ROADWAY				36' ROADWAY				42' ROADWAY				44' ROADWAY				ROADWAY								
NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS					
SQUARE OR SKEWED																								
2	10	7'-5"	AS3 STR.	2	10	7'-2"	AS4 STR.	2	10	5'-6"	AS6 STR.	2	10	5'-6"	AS6 STR.	2	10	5'-6"	AS6 STR.	2	10	5'-6"	AS6 STR.	
SKEWED UP TO 15°																								
30	10	20'-7"	AS1	38	10	20'-7"	AS1	42	10	20'-7"	AS1	44	10	20'-7"	AS1	10	20'-7"	AS1	10	20'-7"	AS1	10	20'-7"	AS1
ALL SKEWED SPANS																								
ABOVE 15° SKEW																								

REMARKS: 1. AS1 BAR DIMENSION VARIES FROM 17'-6" TO 25'-2". 2. 30' + DIMENSION (7/16") + 4" (IN FEET) - NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. 3. 40' + DIMENSION (7/16") + 2" (IN FEET) - NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. 4. THE LENGTH OF AS2 BARS VARIES FROM 15' TO 30 FEET. THE LOCATION OF SPLICES IS LEFT TO THE OPTION OF THE DESIGNER. THE NO. PIECES SHOWN ARE FOR CONDITION 1. (FOR CONDITION 2 & 3 SEE REIN. SCHEDULE.)

GENERAL NOTES: ALL REINFORCING STEEL SHALL BE DETAILED ON THE REINFORCING STEEL SCHEDULE. WHEN A BAR LENGTH VARIES IN INCREMENTS EACH BAR MUST BE DETAILED. SPLICES SHALL BE 2'-0" FOR NUMBER 5 BARS AND 4'-0" FOR NUMBER 10 BARS. ALL WORK AND MATERIALS SHALL CONFORM TO THE STATE OF VERMONT, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED JANUARY 1958, AND THE A.S.A.M.O. SPECIFICATIONS DATED 1957. DESIGNED FOR HD-50-60.



DETAILS OF REINFORCING BARS				REINFORCING STEEL				QUANTITY COMPUTATION					
TYPE I		TYPE S6		TYPE I		TYPE S6		W = WIDTH OF ROADWAY					
A = 1'-1"	J = 0'-9"	A = 0'-6"	C	BAR NO.	NO.	LENGTH	WEIGHT PER FT.	W = 30	Z = 20 + DIMENSION	T = DIMENSION	T = 7.812	BITUMINOUS CONCRETE = W x Z x 0.0123 x TONS	
B = 19'-6" OR VARIES		B = 1'-9"	D	AS1	30	23'-9" (AV)	1.303	306.72	30	23.134	0.0123	9	TONS
		C = 0'-6"		AS2			1.303	306.72	TAR EMULSION = W x Z x 0.0444 x GALLONS				
		D = 1'-9"		AS3	2	7'-5"	4.303	63.86	CONCRETE CLASS B = W x Z x 0.0386 + T x 0.1023 + (T - 1.8333) x 0.0733 = CUBIC YARDS				
		G = 0'-6"		AS4	2	7'-2"	4.303	61.71	[30 x 23.134 + 0.0386] + [28.12 + 0.1023] + [(28.12 - 1.8333) x 0.0733] = 28 CUBIC YARDS				
				AS5	24	23'-6"	1.043	738.44	GRANITE BRIDGE CURB = (21' x 0'-8") x LINEAR FEET (28.12 + 0.25) = 16. LINEAR FEET				
				AS6	16	3'-6"	1.043	58.41	AND AN OVERRUN OF 15% TO BIT. CONCRETE, AND AN OVERRUN OF 5% TO CONCRETE CLASS B				
				AS7	10	5'-0"	1.043	52.15	BAR LENGTHS: AS3 BARS - DIMENSION "W" - 0'-0"				
				AS8	2	5'-10"	1.043	12.16	AS4 BARS - DIMENSION "W" - 0'-0"				
				AS9	2	5'-6"	1.043	11.47	AS5 BARS - DIMENSION "W" - 0'-0"				
				AS10	2	16'-4"	1.043	34.06	AS6 BARS - DIMENSION "W" - 2'-0"				
				TOTAL WEIGHT = 4092.98									

REVISIONS AND CORRECTIONS

DRAWN BY: R.S. HUPT NOV. 1960  
 TRACED BY: R.S. HUPT NOV. 1960  
 CHECKED BY: A.H. SMALLEY NOV. 1960

CORRECT: Nov 21, 1960  
 BRIDGE ENGINEER

APPROVED: Nov 22, 1960  
 CHIEF ENGINEER

DETAILS OF APPROACH SLAB FOR 30 FOOT BRIDGE TO BE USED FOR BRIDGE AT STATION 2248+33.22 OVER PASS LOCATION APPROACH SLAB #1 & 2 NB - 1 & 2 SB.

STATE OF VERMONT DEPARTMENT OF HIGHWAYS STANDARD STRUCTURE SB-AS-60

TOWN OF WINDSOR COLCHESTER ROUTE NO. I-89 LOG STA. SCALE AS NOTED DESIGNED BY G.M.K. CHECKED BY A.G.C. PROJECT NO. I-89-3(15) BR. 7 OF 10 SHEET 25 OF 150



BORING NO.	GROUND ELEV.	LEDGE ELEV.
A7	342.2	341.4
A8	351.1	339.1
A9	343.8	341.8
A10	343.2	338.7
B7	336.4	333.4
B5	334.8	333.8
B6	332.9	331.9
B7	331.8	330.8
B8	329.8	329.8
B9	329.8	328.8
B10	328.4	326.9
C8	330.7	327.7
C4	328.3	325.3
C5	327.0	325.0
C6	326.4	323.6
C7	326.0	324.0
C8	325.3	320.8
C9	324.2	317.2
D2	327.1	323.1
D3	326.7	322.0
D4	326.7	320.7
D5	324.2	319.7
D6	323.8	317.8
D7	323.5	314.5
D8	322.7	312.7
1	340.6	337.7
2	341.5	338.5
3	341.4	339.2
4	344.6	340.2
5	345.8	339.8
6	346.0	339.9

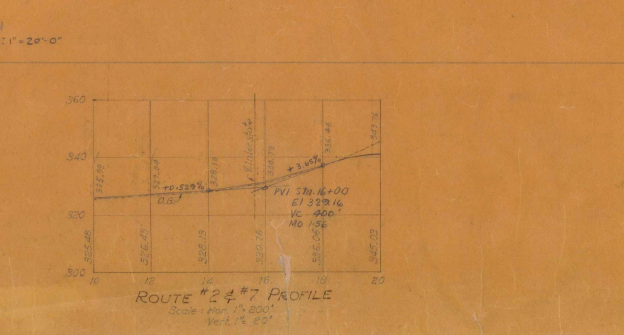
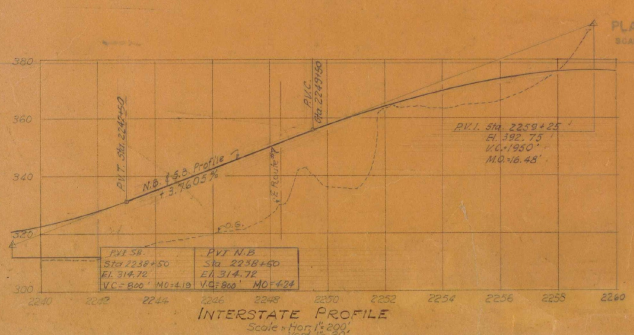
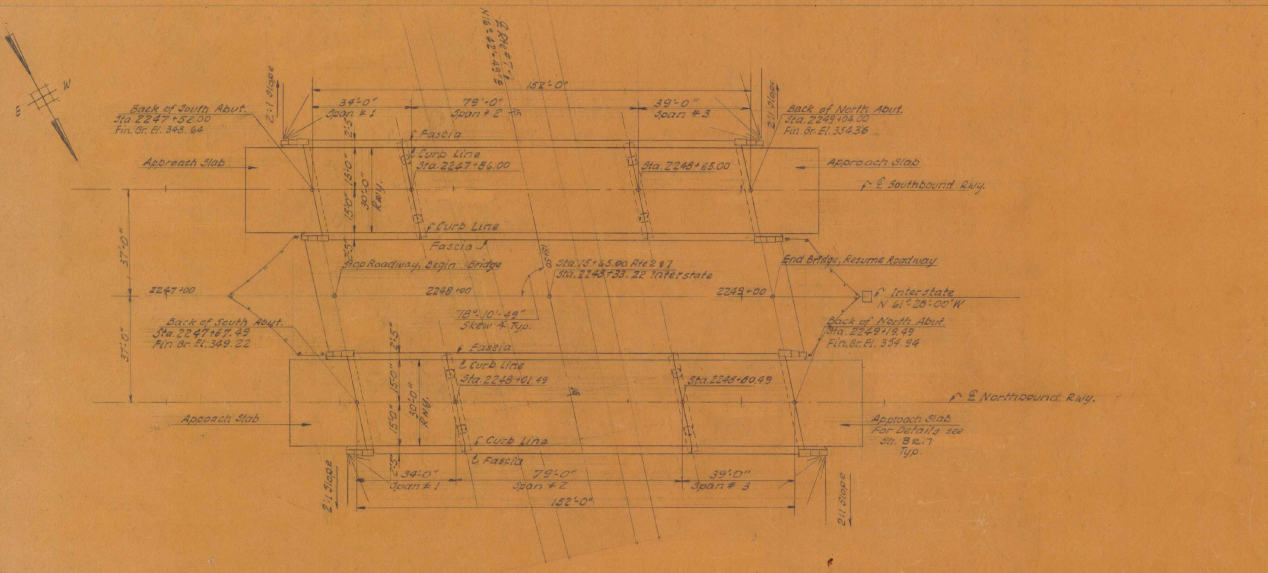
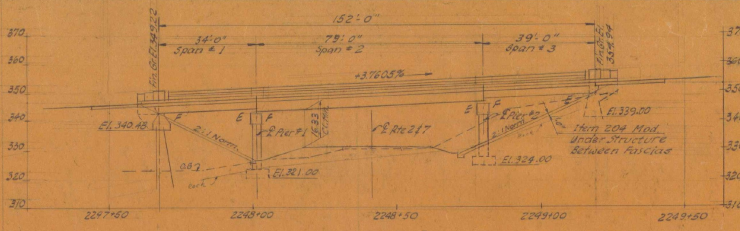
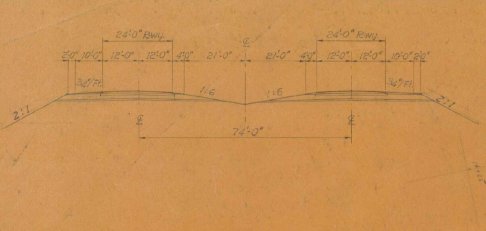
BORING LOCATION PLAN  
SCALE: 1" = 20'-0"

BRB of 10

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
INTERSTATE PROJECT IN THE TOWNS OF WINDSOR, COLCHESTER	
OVERPASS STA. 2248+33.22 U. S. ROUTE 2 & 7 BORING LOGS	
BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N. J.	
DRAWN BY: J.S.	IN CHARGE: A.J.T.
CHECKED BY: A.J.T.	DATE:
PROJECT NO. 1-89-3(10)	SHEET 126 OF 150







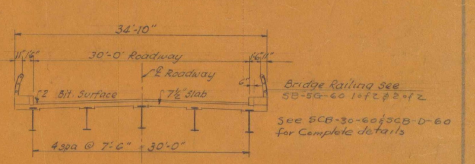
HIGHWAY NO. 89 NAME OF HIGHWAY INTERSTATE  
 STRUCTURE NO. BR 10 OF 10 COUNTY CHITTENDEN TOWN COLCHESTER  
 PROJECT NO. 1-89-3(16) LOCATION STA. 2247+39.75 TO STA. 2249+11.75

**EXISTING STRUCTURE**  
 1. RATED LOADING OF EXISTING STRUCTURE NONE  
 2. TYPE OF EXISTING STRUCTURE  
 3. UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE  
 4. WIND DEPOSITION SHOULD BE MADE OF EXISTING STRUCTURE COST OF REMOVAL  
 5. SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE  
 6. SHOULD NEW TEMPORARY STRUCTURE BE BUILT  
 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 ADJUSTMENTS  
 12. DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE  
 13. IF NOT AT WHAT ELEVATION IS BELIEVED AFFORDED  
 14. ADDITIONAL WATERWAY AREA PROVIDED

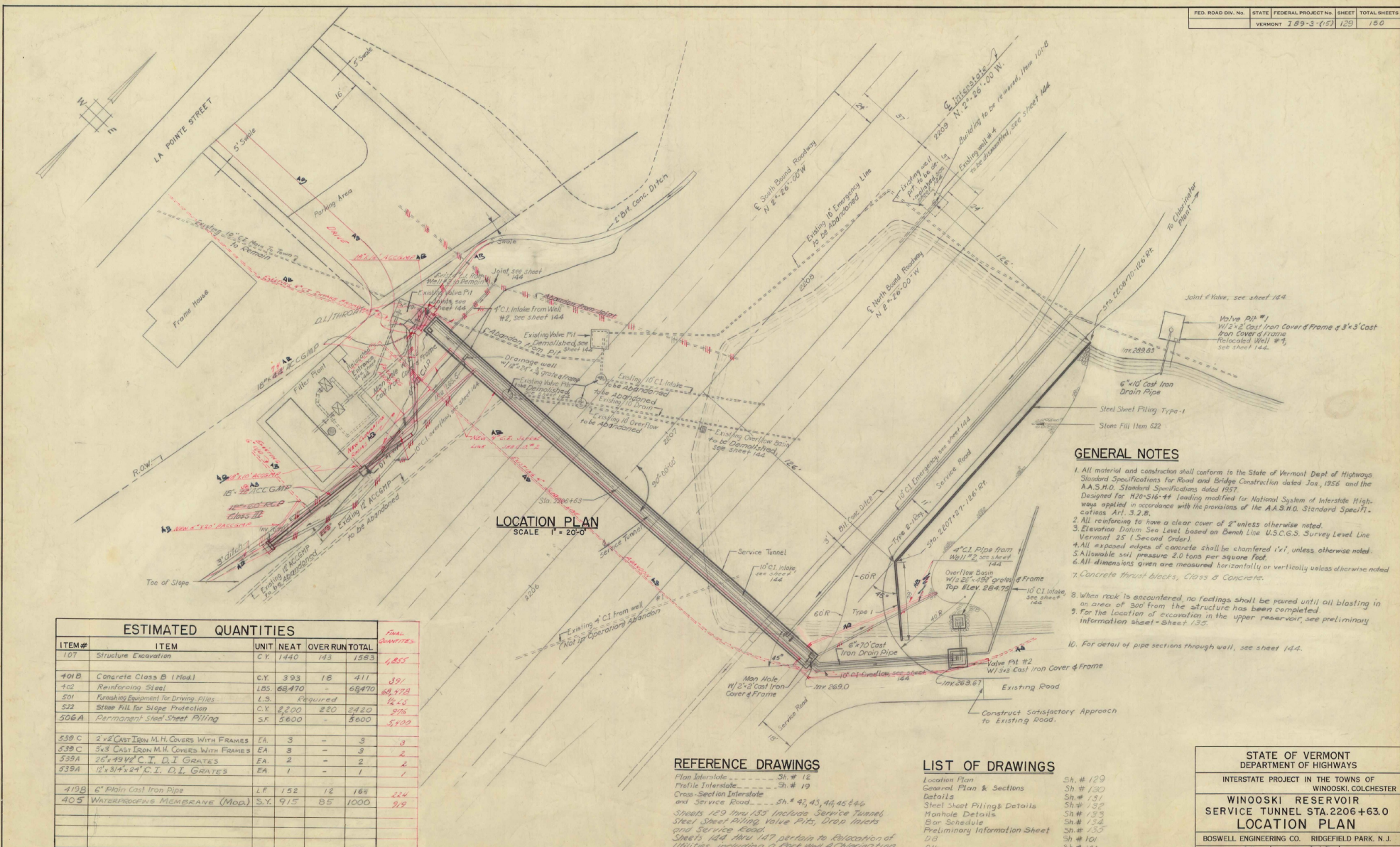
**NEW STRUCTURE**  
 1. RECOMMENDED TYPE OF STRUCTURE *3 span simple supported composite beam construction*  
 2. RECOMMENDED CLEAR SPAN OR SPANS  
 MEASURED PARALLEL TO & NEW HIGHWAY *30'-2 1/2"; 75'-5 1/2"; 35'-2 1/2"*  
 MEASURED AT RIGHT ANGLES TO & STREAM  
 3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO  
 4. ORDINARY HIGH WATER SURFACE ELEVATION AT NEW STRUCTURE  
 5. EXTREME HIGH WATER SURFACE ELEVATION AT NEW STRUCTURE SOURCE OF INFORMATION  
 6. IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE  
 7. DOES STREAM REACH ITS MAXIMUM HIGH WATER SURFACE ELEVATION RAPIDLY? IS ORDINARY RISE RAPID?  
 8. LOW WATER SURFACE ELEVATION AT NEW STRUCTURE  
 9. DRAINAGE AREA IN ACRES ABOVE STRUCTURE CHARACTER OF TERRAIN  
 10. IS STREAM EVER DRY?  
 11. VELOCITY OF STREAM AT HIGH WATER STAGE ESTIMATED DISCHARGE  
 12. AREA FULL OPENING AREA BELOW ORDINARY H.W.  
 13. CHARACTER OF SEDIMENT DRIFT ICE  
 14. ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE  
 15. VERTICAL CLEARANCE ABOVE FLOOD ELEVATION BOTH SIDES  
 16. ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE *NO*  
 17. RECOMMENDED TYPE OF PAVEMENT *7 1/2" Reinforced Conc. + 2" Bituminous Conc.*  
 18. TRAFFIC TO BE MAINTAINED UNDER ITEM NO. *NO* ONE OR TWO WAYS PROBABLE DIRT  
 19. PROBABLE COST OF CLEANING AND BRIDGING STREAM CHANNEL AT STRUCTURE SITE  
 20. SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES *NO*  
 21. ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS SHOULD PILES BE USED *YES* EST. LENGTH *30'-0"*  
*5/12 SE slope 3 1/2" Dia Steel H Piles*

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

- For borings see 50-176 of 150
- Design loading - H-20-44 Modified for National System of Interstate Highways



BR 10 of 10  
 STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
 INTERSTATE IN THE TOWNS OF  
 WINDSOR, COLCHESTER  
 ROUTE NO. 89 LEG STA  
 OVERPASS STA 2248+33.22  
 WINDSOR INTERCHANGE  
 PROJECT NO. 1-89-3(16) SHEET 128 OF 150



LOCATION PLAN  
 SCALE 1" = 20'-0"

**GENERAL NOTES**

- All material and construction shall conform to the State of Vermont Dept. of Highways Standard Specifications for Road and Bridge Construction dated Jan. 1956 and the A.A.S.H.O. Standard Specifications dated 1957. Designed for H20-S16-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the A.A.S.H.O. Standard Specifications Art. 3.2.8.
- All reinforcing to have a clear cover of 2" unless otherwise noted.
- Elevation Datum Sea Level based on Bench Line U.S.G.S. Survey Level Line Vermont 25 (Second Order).
- All exposed edges of concrete shall be chamfered 1/4", unless otherwise noted.
- Allowable soil pressure 2.0 tons per square foot.
- All dimensions given are measured horizontally or vertically unless otherwise noted.
- Concrete thrust blocks, Class B Concrete.
- When rock is encountered no findings shall be pored until all blasting in an area of 300 from the structure has been completed.
- For the location of excavation in the upper reservoir, see preliminary information sheet - Sheet 135.
- For detail of pipe sections through well, see sheet 144.

ESTIMATED QUANTITIES				
ITEM #	ITEM	UNIT	NEAT	OVER RUN TOTAL
107	Structure Excavation	C.Y.	1440	143 1583
401B	Concrete Class B (Mod.)	C.Y.	393	18 411
402	Reinforcing Steel	LBS.	68470	- 68470
501	Finishing Equipment for Driving Piles	L.S.	Required	1245
522	Stone Fill for Slope Protection	C.Y.	2200	220 2420
506A	Permanent Steel Sheet Piling	SF.	5600	- 5600
539 C	2'x2' Cast Iron M.H. Covers With Frames	EA.	3	- 3
539 C	3'x3' Cast Iron M.H. Covers With Frames	EA.	8	- 8
539A	26'x49' V.I. C.I. D.I. GRATES	EA.	2	- 2
539A	12'x34'x24' C.I. D.I. GRATES	EA.	1	- 1
419B	6" Plain Cast Iron Pipe	LF.	152	12 164
405	WATERPROOFING MEMBRANE (MOD.)	S.Y.	915	85 1000

**REFERENCE DRAWINGS**

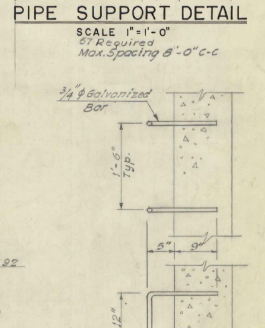
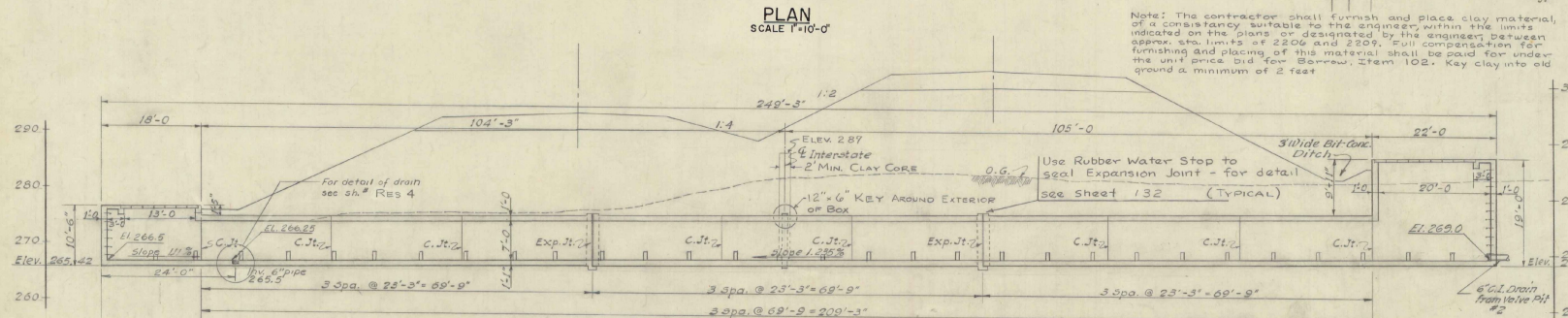
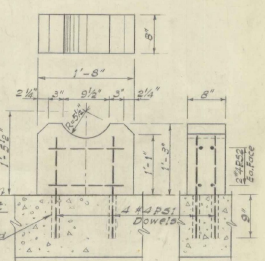
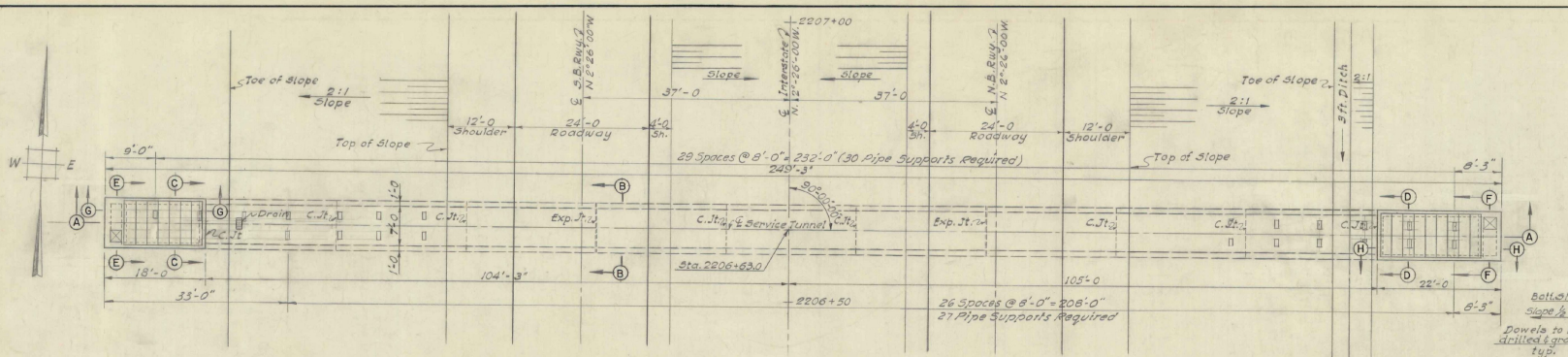
- Plan Interstate - Sh. # 12
- Profile Interstate - Sh. # 19
- Cross-Section Interstate and Service Road - Sh. # 43, 43, 44, 45 & 44
- Sheets 129 thru 135 include Service Tunnel, Steel Sheet Piling, Valve Pits, Drain Lines and Service Road
- Sheets 144 thru 147 pertain to Relocation of Utilities including a Rock Well, a Charnion Well and other abandoned Wells at the Winooski Reservoir.

**LIST OF DRAWINGS**

- Location Plan Sh. # 129
- General Plan & Sections Sh. # 130
- Details Sh. # 131
- Steel Sheet Piling Details Sh. # 132
- Manhole Details Sh. # 133
- Bor Schedule Sh. # 134
- Preliminary Information Sheet Sh. # 101
- D.I. Sh. # 104
- 50-20-60 Sh. # 140
- 50-21-50 Sh. # 143

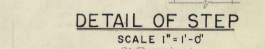
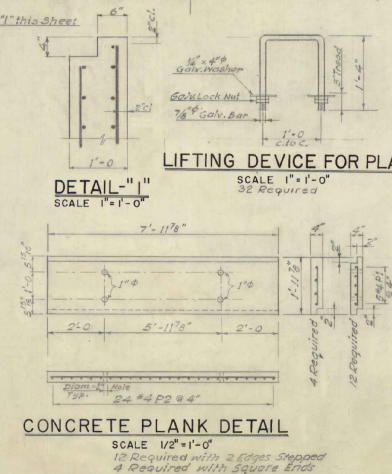
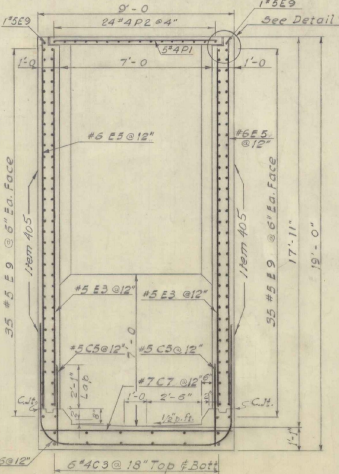
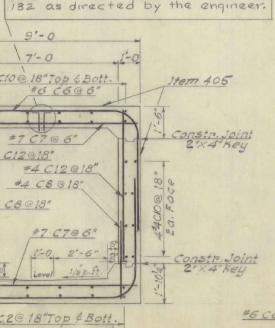
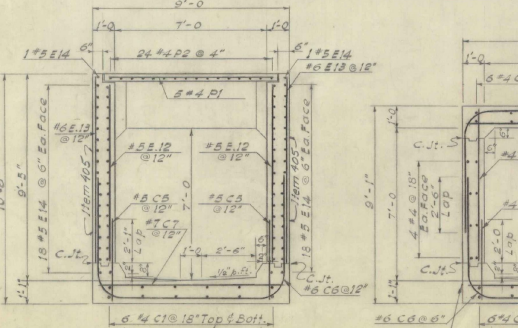
\* NOT TO BE INCLUDED IN THE SERVICE TUNNEL ESTIMATE

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
 INTERSTATE PROJECT IN THE TOWNS OF  
 WINOOSKI, COLCHESTER  
**WINOOSKI RESERVOIR**  
**SERVICE TUNNEL STA. 2206+63.0**  
**LOCATION PLAN**  
 BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.  
 DRAWN BY G.W. IN CHARGE A.J.J. SCALE AS SHOWN  
 CHECKED BY R.W. DATE  
 PROJECT NO. 1-89-3-(46) SHEET 129 OF 150



ESTIMATED QUANTITIES				
ITEM #	ITEM	UNIT	NEAT	OVER RUN TOTAL
107	Structural Excavation	C.Y.	1284	128 1412
401 B	Concrete Class B	C.Y.	336	16 352
402	Reinforcing Steel	LBS	566	35734
405	Waterproofing Membran (Mod.)	S.Y.	795	73 268

The contractor shall furnish and install anchor bolts (see sheet # 132 as directed by the engineer.



- NOTES**
- For general Notes see Sh # 129
  - For Detail of Sections GG, EE, FF and HH see Sh # 131
  - For Quantities see Sh # 123
  - All Lifting Devices & Steps to be included in the price for Concrete Class B Item 401 B.
  - The location of the pipe supports shall be as directed by the Engineer in the field.
  - The exposed outside surface of the Service Tunnel shall be coated with Waterproofing Membran (Mod.) Item 405.
  - For construction & Expansion Joint Details see SB-21-56

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF  
 WINOOSKI, COLCHESTER

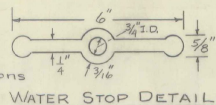
WINOOSKI RESERVOIR  
 SERVICE TUNNEL STA 2206+63.0  
**GENERAL PLAN & SECTIONS**

BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.

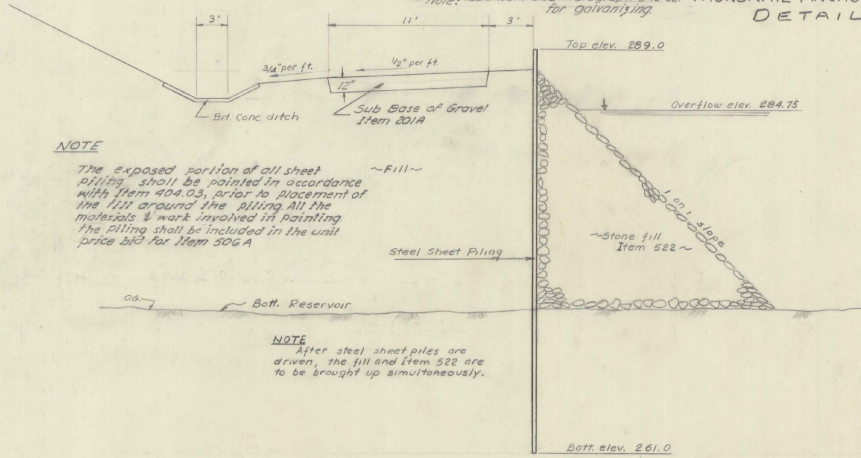
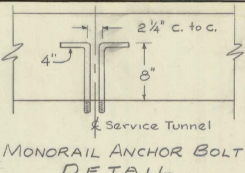
DRAWN BY: [ ] IN CHARGE: [ ] SCALE: AS SHOWN  
 CHECKED BY: [ ] DATE: [ ]  
 PROJECT NO. 1 89-3(15) SHEET 130 OF 150



The Water Stop shall be made of Rubber and shall meet all the requirements in accordance with A.S.T.M. specifications D 395-55 T Condition "B" and D 676-55 T



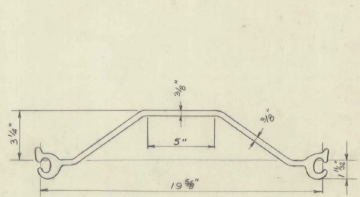
(1) Use 2-3/4" x 14" galvanized anchor bolts at 10'-0" c. to c.  
 (2) The contractor shall furnish and install the anchor bolts as indicated on the plans and or as directed by the engineer.  
 (3) The total no. of anchor bolts required for the monorail & pipe support brackets approx. 20 - 3/4" x 14" bolts.  
 Note: see item 522 Paragraph 522 of For galvanizing.



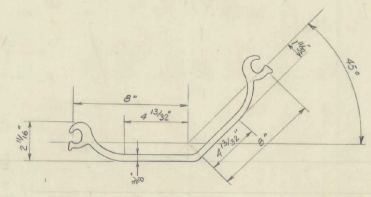
**NOTE**  
 The exposed portion of all sheet piling shall be painted in accordance with Item 404.03, prior to placement of the fill around the piling all the materials & work involved in painting the piling shall be included in the unit price bid for Item 506A

**NOTE**  
 After steel sheet piles are driven, the fill and Item 522 are to be brought up simultaneously.

**STEEL SHEET PILING ELEVATION**  
 SCALE 1/4"=1'-0"

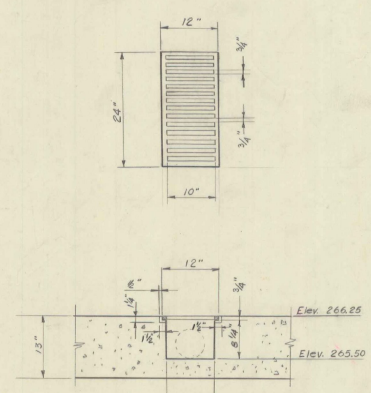


**STEEL SHEET PILE TYPE #1**  
 SCALE N.T.S.

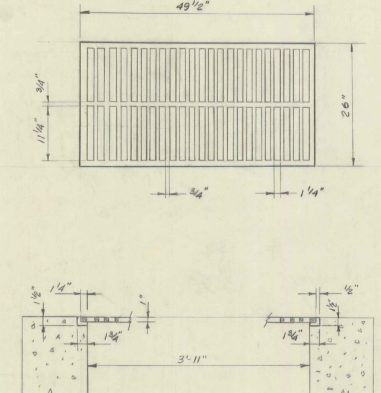


**STEEL SHEET PILE TYPE #2**  
 SCALE N.T.S.

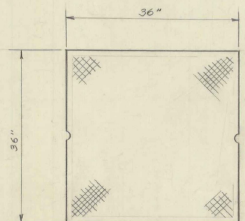
ESTIMATED QUANTITIES					
ITEM#	ITEM	UNIT	NEAT	OVER RUN	TOTAL
506A	Permanent Steel Sheet Piling	S.F.	5600	-	5600
501	Furnishing Equip. for Driving Piling	L.S.	Required		224.0
522	Stone Fill for Slope Protection	C.Y.	2200	220	2420



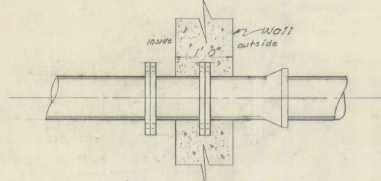
**GRATE & FRAME FOR TUNNEL DRAIN**  
 SCALE 1"=1'-0"  
 (One frame & one grate required)



**GRATE & FRAME FOR OVERFLOW BASIN**  
 SCALE 1"=1'-0"  
 (One frame & 2 grates required)



**COVER & FRAME FOR VALVE PIT I & 2**  
 SCALE 1"=1'-0"  
 (One frame & one cover required for each pit.)

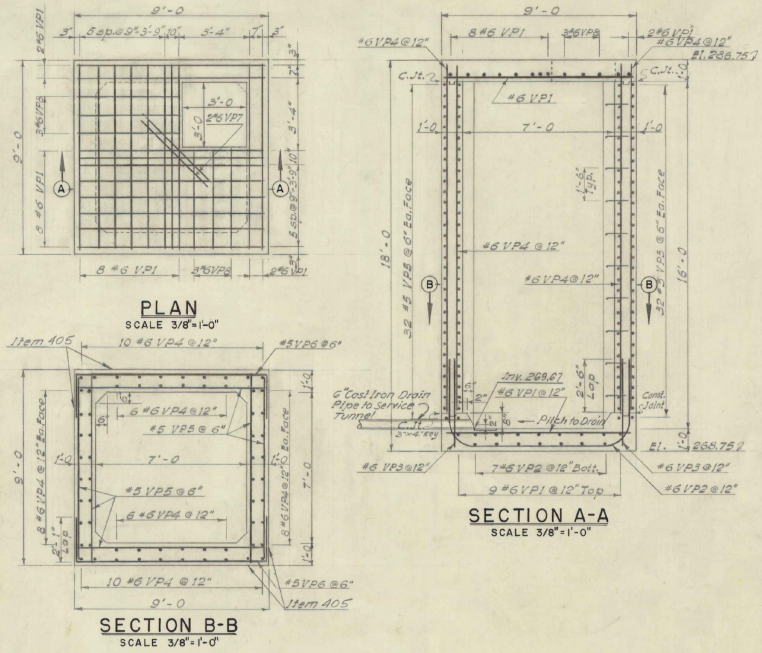


**PIPE ENTRANCE DETAIL THROUGH WALL**  
 SCALE 1"=1'-0"

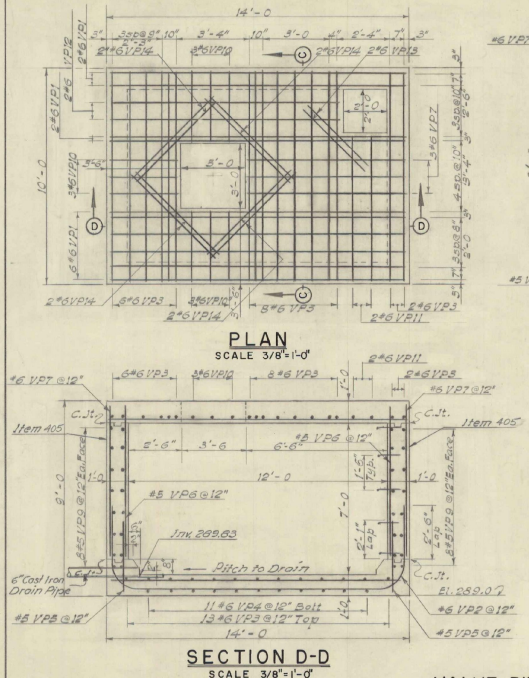
**NOTE**  
 1. To insure a tight seal at all points where pipes enter the overflow basin, service tunnel, or valve pits the pipe couplings entering through the wall shall be cast into the wall when the concrete is poured.  
 2. The location of each pipe entrance shall be approved by the Engineer at the time of construction.

**NOTES**  
 1. For general notes see sh. # 129  
 2. For location of steel sheet piling see sh. # 129

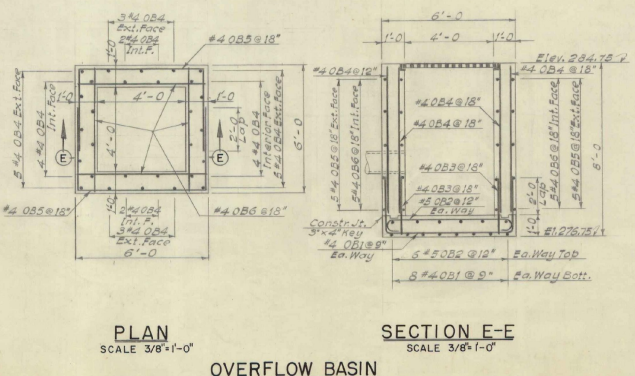
STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS  
 INTERSTATE PROJECT IN THE TOWNS OF  
 WINOOSKI, COLCHESTER  
 WINOOSKI RESERVOIR  
 SERVICE TUNNEL STA. 2206+63.0  
**STEEL SHEET PILING & DETAILS**  
 BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.  
 DRAWN BY: [Signature] IN CHARGE: [Signature] SCALE: As Shown  
 CHECKED BY: [Signature] DATE: [Signature]  
 PROJECT NO. I 89-3(115) SHEET 132 OF 150



VALVE PIT #2



VALVE PIT #1



OVERFLOW BASIN

SECTION C-C  
SCALE 3/8"=1'-0"

**NOTES**

1. For General Notes see Sh. 129
2. For Location of Valve Pits and Overflow Basin see Sh. 123
3. For Details of Grates and Covers see Sh. 134
4. For Details of Steps see Sh. 130
5. For Construction Joint Details see Sh. 20-60
6. The unexposed outside surface of Valve Pit #1 and Valve Pit #2 shall be coated with waterproofing membrane (Mod.), Item 405

ESTIMATED QUANTITIES					Final
ITEM#	ITEM	UNIT	NEAT	OVER RUN	
<b>VALVE PIT #1</b>					
107	Structure Excavation	C.Y.	64	6	70
401B	Concrete Class B	C.Y.	23	1	24
402	Reinforcing Steel	Lb.	See Bar Schedule	51,134	
405	Waterproofing Membran (Mod.)	S.Y.	45	5	50
<b>VALVE PIT #2</b>					
107	Structure Excavation	C.Y.	81	8	89
401B	Concrete Class B	C.Y.	27	1	28
402	Reinforcing Steel	Lb.	See Bar Schedule	51,134	
405	Waterproofing Membran (Mod.)	S.Y.	72	7	79
<b>OVERFLOW BASIN</b>					
107	Structure Excavation	C.Y.	11	1	12
401B	Concrete Class B	C.Y.	6	1	7
402	Reinforcing Steel	Lb.	See Bar Schedule	51,134	
405	Waterproofing Membran (Mod.)	S.Y.	0	0	0

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF  
 WINDOSKI COLCHESTER

WINDOSKI RESERVOIR  
 SERVICE TUNNEL STA. 2206+63.0

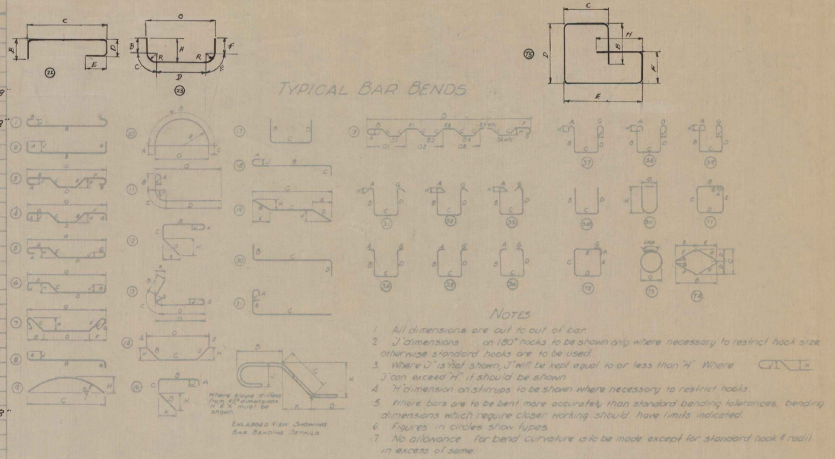
**MANHOLE DETAILS**

BOSWELL ENGINEERING CO. RIDGEFIELD PARK, N.J.

DRAWN BY *[Signature]* IN CHARGE *[Signature]* SCALE AS SHOWN  
 CHECKED BY *[Signature]* DATE *[Date]*

PROJECT NO. I 89-3(15) SHEET 133 OF 150

Item No.	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
<b>SERVICE TUNNEL</b>																					
19	*6	13'-8"	1VP1 STR																		
7	*6	20'-6"	1VP2 23	2'-8"	2'-0"	11'-2"	2'-0"	2'-8"													3'-11"
29	*6	9'-8"	1VP3 STR																		
11	*6	16'-6"	1VP4 23	2'-8"	2'-0"	7'-2"	2'-0"	2'-8"													3'-11"
40	*5	3'-7"	1VP5 STR																		
40	*5	7'-2"	1VP6 STR																		
51	*6	7'-2"	1VP7 STR																		
32	*5	13'-8"	1VP8 STR																		
9	*6	3'-2"	1VP10 STR																		
2	*6	4'-8"	1VP11 STR																		
2	*6	10'-8"	1VP12 STR																		
2	*6	4'-0"	1VP13 STR																		
8	*6	5'-3"	1VP14 STR																		
<b>VALVE PIT #1</b>																					
19	*6	13'-8"	1VP1 STR																		
7	*6	20'-6"	1VP2 23	2'-8"	2'-0"	11'-2"	2'-0"	2'-8"													3'-11"
29	*6	9'-8"	1VP3 STR																		
11	*6	16'-6"	1VP4 23	2'-8"	2'-0"	7'-2"	2'-0"	2'-8"													3'-11"
40	*5	3'-7"	1VP5 STR																		
40	*5	7'-2"	1VP6 STR																		
51	*6	7'-2"	1VP7 STR																		
32	*5	13'-8"	1VP8 STR																		
9	*6	3'-2"	1VP10 STR																		
2	*6	4'-8"	1VP11 STR																		
2	*6	10'-8"	1VP12 STR																		
2	*6	4'-0"	1VP13 STR																		
8	*6	5'-3"	1VP14 STR																		
<b>VALVE PIT #2</b>																					
38	*6	8'-8"	2VP1 STR																		
14	*6	15'-6"	2VP2 23	2'-8"	2'-0"	6'-2"	2'-0"	2'-8"													3'-11"
28	*6	3'-11"	2VP3 STR																		
64	*6	16'-2"	2VP4 STR																		
192	*5	12'-10"	2VP5 STR																		
64	*5	12'-10"	2VP6 17	2'-1"	8'-8"	2'-1"															
2	*6	4'-6"	2VP7 STR																		
<b>CONCRETE PLANK</b>																					
80	*4	7'-8"	P1 STR																		
384	*4	1'-4"	P2 STR																		
<b>PIPE SUPPORT</b>																					
260	*4	1'-10"	PS1 STR																		
260	*4	1'-4"	PS2 STR																		
<b>OVERFLOW BASIN</b>																					
16	*4	11'-4"	OF1 17	2'-10"	5'-8"	2'-10"															
12	*5	6'-10"	OF2 1	7'	5'-8"																7'
12	*4	2'-10"	OF3 STR																		
28	*4	6'-10"	OF4 STR																		
10	*4	13'-9"	OF5 17	3'-10"	5'-8"	3'-10"															
20	*4	5'-8"	OF6 STR																		



Item No.	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
163																					
164																					
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188																					
189																					
190																					

\* DENOTES ONE BAR ADDED FOR TESTING

Bar reinforcement material shall conform to the requirements of the Standard Specifications for new (2400) Steel Reinforcement Bars (Intermediate Grade) Steel Reinforcement AASHTO M31-48 or its ASTM equivalent. All bars shall be deformed to conform with ASTM Specification A305-49.

Item No.	Location	Quantity
33263	SERVICE TUNNEL	58,236
665	CONCRETE PLANK	754
665	PIPE SUPPORT	550
752	OVERFLOW BASIN	522
3007	VALVE PIT #1	3,245
3014	VALVE PIT #2	5,145
65272	TOTAL	68,470

**STATE OF VERMONT**  
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE TOWNS OF  
WINOOSKI, COLCHESTER

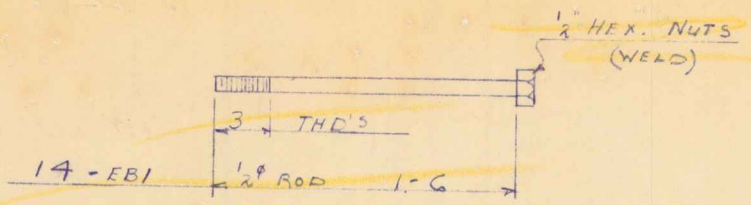
**WINOOSKI RESERVOIR**  
SERVICE TUNNEL STA. 2206+63.0  
**BAR SCHEDULE**

BOSWELL ENGINEERING CO. RIDGE FIELD PARK, N.J.

DRAWN BY A.L. IN CHARGE A.W.D. SCALE  
CHECKED BY M.J.C. DATE

PROJECT NO. 1-89-3-(5) SHEET 134 OF 150





ITEM # 737

PRINT RECORD		
DATE	NO.	FOR
4-3	3	APP.

BILL OF MATERIAL

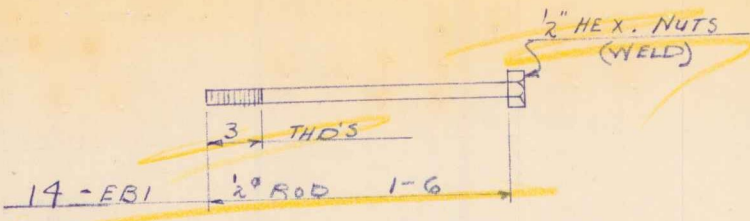
NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
		14- EXPANSION JOINT BOLTS FBI.			
14		1/2" ROD	1	6	
14		1/2" HEX NUTS			
		FIELD MAT.			
14		1/2" EXP. SHIELDS 2" MACH. BOLT			
					NO. 110B U.S.E. ORD.

*check 4/10/62  
R.H.D.  
O.K. 4/10/62  
E.F.P.*

VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

DATE		PROJECT
DRAWN BY	HP 4-3-62	COLCHESTER BR. I-89-3 (15)
CHECK'D BY	4-3-62	LOCATION COLCHESTER, VT.
HOLES		CUSTOMER BECK & BELLUCCI
RIVETS		ARCHITECT STATE OF VT. DEPT OF HIGHWAYS
PAINT	NONE	JOB NO. 62-493-12

*approved 4/10/62  
J.H.H.*



ITEM # 738

PRINT RECORD		
DATE	NO.	FOR
4-3	3	APP.

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
		14- EXPANSION JOINT BOLTS EB1			
14		1/2" ROD	1	6	
14		1/2" HEX NUTS			
		~ FIELD MAT ~			
14		1" EXP. SHIELDS 2" MACH. BOLTS			

NO. 1108 U.S.E.  
CRP.

*OK 4/10/62  
RWD*

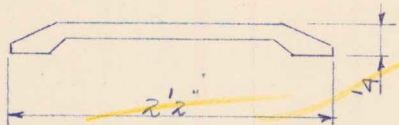
VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

DRAWN BY	HP	DATE	4-3-62	PROJECT	COLCHESTER BR. I-89-3 (15)
CHECK'D BY	K	DATE	4-3-62	LOCATION	COLCHESTER, VT.
HOLES				CUSTOMER	BECH & BELLUCCI
RIVETS				ARCHITECT	STATE OF VT. DEPT OF HIGHWAYS
PAINT	NONE			JOB NO.	62-493

*approved  
4/10/62  
JWB*

PRINT RECORD		
DATE	NO.	JOB
4-3	3	APP

NOTE - ALL SCRIBING OR CUTOUTS TO  
BE DONE IN FIELD BY OTHERS.



ONE - BRONZE THRESHOLD X 4 0

BLUM # 9510

ITEM # 737

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
		<del>ONE - BRONZE THRESHOLD</del>			
1		<del>2 1/2" BRONZE THRESHOLD</del>	4	0	BLUM # 9510 ORD.
		FIELD MAT.			
5		1/4" F.H.M.S.	0	1/4	
5		1/4" STD. TAMPINS			

VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

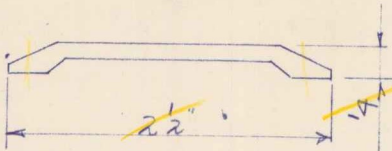
DRAWN BY	HP	DATE	4-3-62	PROJECT	COLCHESTER BA. I-89-3-(5)
CHECKED BY	15		9-1-62	LOCATION	COLCHESTER, VT.
HOLES				CUSTOMER	BECK & BELLUSCI
RIVETS				ARCHITECT	STATE OF VT. DEPT OF HIGHWAYS
PAINT	NONE			JOB NO	62-493-11

Approved  
4/10/62  
JHK

SHEET NO. 117

DRAWING RECORD	
DATE	NO. FOR
4-3-62	3 APP.

NOTE ALL SCRIBING OR CUTOUTS TO  
BE DONE IN FIELD BY OTHERS.



~~2 - BRONZE THRESHOLD X 4-0~~

BLUM # 4510

~~ITEM # 738~~

BILL OF MATERIAL

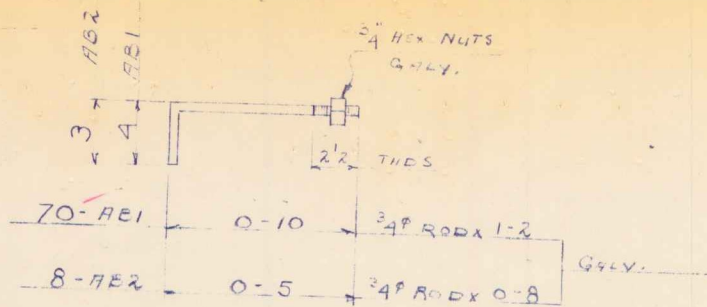
NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
<del>2</del>		<del>BRONZE THRESHOLD</del>			
2		2 1/2 BRONZE THRESHOLD	4	0	BLUM. # 4510 ORD.
		<del>FIELD MAT</del>			
10		1/4" F.H.M.S.	0	1/4	
10		1/4 STD TAMPINS			

*del 1/4" x 1/4"*  
*del 1/4"*

VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

DRAWN BY	HP	DATE	4-3-62	PROJECT	COLCHESTER BR. I-89-3 (15)
C.K'D BY	K			LOCATION	COLCHESTER, VT.
HOLES				CUSTOMER	BECK & BELLUCCI
RIVETS				ARCHITECT	STATE OF VT. DEPT OF HIGHWAYS
PAINT	NONE			JOB NO.	62-493-16

*approved*  
*4/11/62*  
*JH*



NOTE: GALVANIZED

APRIL 1, 1962 DELV.

3-21-F. 3-16-62  
G-5005 3-28-62

REV. PER APP 2-28-62 HP

BILL OF MATERIAL					
NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
70	HE1	ANCHOR BOLTS			
8	HE2	do			
70	HE1	3/4 GALV. BOLTS	1	2	} GALV STE NUT & BOLT P.O. 49477 TO SHOP
8	HE2	do	0	8	
78		3/4 GALV. HEX. NUTS			

*chk ok  
3/28/62  
JVA*

VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

DATE: HP 2-16-62

PROJECT: COLCHESTER BR I 89-3 (S)

LOCATION: COLCHESTER, VT

CUSTOMER: BECK & BELLUCCI

ARCHITECT: STATE OF VT. DEPT. OF HIGHWAYS

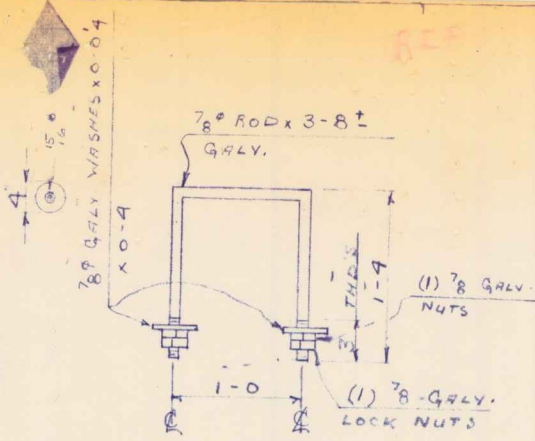
PAINT: GALVANIZED

JOB NO: 62-493-7

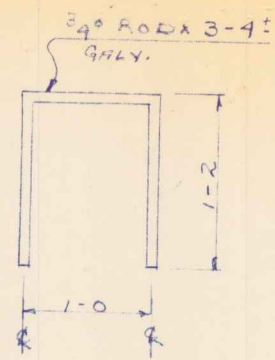
2500 6-56 DCP

SHEET NO. M1

*approved  
4-3-62  
JVA*



32- LIFTING RINGS LI



31- MANHOLE STEPS STI

NOTE: GALVANIZED

APRIL 1, 1962 DELV

3-APP 3-16-62  
3-APP 3-29-62

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
32		32- LIFTING RINGS LI			
64		7/8" GALV. ROD	3	8"	} GALV. STD. NUT (ROST P.O. 49479 TO SHOP
64		7/8" GALV. X 0-0 1/4" WASHERS	0	4	
64		7/8" GALV. LOCK NUTS			
64		7/8" GALV. NUTS			
31		31- MANHOLE STEPS STI			
31		3/4" GALV. ROD	3	4"	

*ok  
3/20/62  
RSD*

VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

DRAWN BY HP DATE 2-16-62 PROJECT COLCHESTER BR I87-3 (15)

C.K'D BY WH LOCATION COLCHESTER, VT.

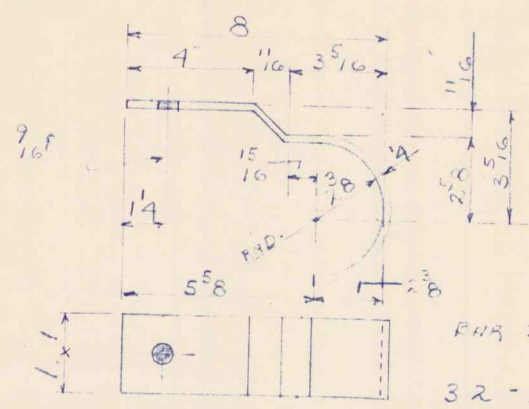
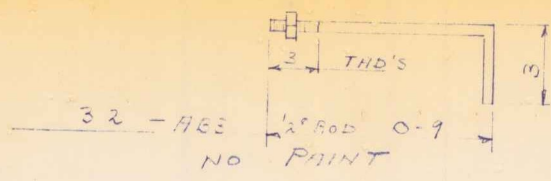
HOLES CUSTOMER BECK & BELLUCCI

RIVETS ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS

PAINT JOB NO. 62-493-5

2500 6-58 OCP SHEET NO. 1A

*approved  
4-3-62  
JTB*



BRK 2 x 1/4 x 1-1/2"  
 32 - PIPE SUPPORTS PSI

REV. RES. HEP 3-28-62 MP 3-APP 3-16-63 G-SHOP 3-29-62

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
		32 - 1/2" HEX BOLTS .17B3			
32		1/2" ROD	1	0	RES 2@20-0
32		1/2" HEX NUTS			
		32 - PIPE SUPPORTS PSI			
32		BRK 2 x 1/4	1	1/2	RES 2@20-0

*all ok  
 3/15/62  
 approved  
 3-3-62  
 JKH*

VERMONT STRUCTURAL STEEL CORP. BURLINGTON, VERMONT

DRAWN BY: HP	DATE: 3-15-62	PROJECT: COLCHESTER BR T 89-2 (15)
C.K.D. BY: J.T.	LOCATION: COLCHESTER, VT	CUSTOMER: BECA & ELLIOTT
HOLES: AS NOTED	RIVETS:	ARCHITECT: STATE OF VT. DEPT. OF HIGHWAYS
PAINT: B.L. (VT. SPEC) EPS NOTED	JOB NO: GA 493-6	SHEET NO: M-1



REINFORCING BAR SHOP LIST

JOB PROJECT I-89-3 (15) LOCATION WINDUSKI VT

CUSTOMER BECK & BELLUCCI DATE 2-16-62

THIS SHEET COVERS SPAN #1 NORTHBOUND STA 2248+33.22 REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 129 OF 150 MADE BY VJA

BENT BARS, TIES & STIRRUPS Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				HEAVY BENDING														
2	22	#6	33-0	NB157	1.8	1-8							8					
3																		
4	31	#5	42	NB156	1.7	2-6	8	1-0										
5																		
6				LIGHT BENDING														
7	26	#4	6-6	NB156A	.52	5	2-6	8	2-6	5								
8	42	#4	3-3	NB154	.53	5	1-6	1-6	1-6	5								
9																		
10																		
11																		
12																		
13																		
14																		

STRAIGHT BARS

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	10	#6	33-6	NB153			15						
2							16						
3	136	#5	34-4	NB151			17						
4	11	#5	32-2	NB153			18						
5							19						
6	64	#4	33-6	NB152			20						
7							21						
8							22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

Checked 3-1-62 JJA

Approved 3/21/62 JJA

TOTAL WEIGHT

CONTRACT No. 11-55738

JOB No.

SHEET No. 10 ONLY



REINFORCING BAR SHOP LIST

12260-100-A 1-62

JOB PROJECT I-89-3 (15)

LOCATION WINOOSKI, VT.

CUSTOMER BELM & BELLUCCI

DATE 2-16-62

THIS SHEET COVERS SPAN #2 NORTH BOUND STA 2248+33.22.

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 129 OF 150

MADE BY VJL

BENT BARS, TIES & STIRRUPS

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				HEAVY BENDING														
2	62	#4	4-2	NB254		17		2-6	8	1-0								
3																		
4				LIGHT BENDING														
5	104	#4	5-3	NB254		55		5	1-6	1-3	1-6	5						
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

STRAIGHT BARS

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	30	#6	28-0	NB253			15						
2							16						
3	316	#5	34-4	NB251			17						
4	5	#5	32-2	NB255			18						
5							19						
6	192	#4	27-6	NB252			20						
7							21						
8							22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

Checked  
3-1-62  
JJC  
OK W/M

Approved  
3/2/62  
HJK

TOTAL WEIGHT

CONTRACT No. 11-55758

JOB No.

SHEET No. 11 ONLY



REINFORCING BAR SHOP LIST

JOB PROJECT 11-19-53 (25)

LOCATION WINDSOR, VT

CUSTOMER RICH & BELLYCCI

DATE 2-1-54

THIS SHEET COVERS 1104<sup>th</sup> NORTH PLAIN ST 2249+33.22

REVISED 2-1-54

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 130

MADE BY VJL

BENT BARS, TIES & STIRRUPS

Dimensions Omitted are Zero

Line	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
HEAVY READING																		
1	22	#6	3-0	NB357		1	8	1-8					8					
2	31	#5	4-2	NB356P		17	2-6	8	1-0									
LIGHT READING																		
3	26	#4	7-0	NB356A		52	3	1-9	8	2-9	5							
4	50	#4	5-3	NB354		53	5	1-6	1-5	1-6	5							

STRAIGHT BARS

Line	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	21	#6	20-6	NB353			15						
2							16						
3	157	#5	34-4	NB351			17						
4	11	#5	32-2	NB355			18						
5							19						
6	129	#4	20-3	NB352			20						
7							21						
8							22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

OK W.M.J. 3-13-62

approved 3-14-62 J.H.

TOTAL WEIGHT

CONTRACT No. 11-55 758

JOB No.

SHEET No. 12 of 13



REINFORCING BAR SHOP LIST

JOB PROJECT I-89-3 (15)

LOCATION WINDUSHKI VT.

CUSTOMER BECK + KELLUCCI

DATE 2-16-62

THIS SHEET COVERS SPAN #1 SOUTHBOUND STA 2248+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY VJL

BENT BARS, TIES & STIRRUPS

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				HEAVY BENDING														
2	22	#6	3-0	SB159		1	8	1-8					8					
3																		
4	31	#5	4-2	SB136F		19	2-6	8	1-0									
5																		
6				LIGHT BENDING														
7	26	#4	6-6	SB156A		52	5	2-6	8	2-6	5							
8	42	#4	5-3	SB154		53	5	1-6	1-3	1-6	5							
9																		
10																		
11																		
12																		
13																		
14																		

STRAIGHT BARS

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	10	#6	33-6	SB153			15						
2							16						
3	136	#5	34-4	SB151			17						
4	11	#5	32-2	SB153			18						
5							19						
6	64	#4	33-6	SB152			20						
7							21						
8							22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

Checked  
3-1-62  
JVL  
OK w/m

9000 lbs  
3/2/62  
JVL

TOTAL WEIGHT

CONTRACT No. 11-55758

JOB No.

SHEET No. 13 ONLY



REINFORCING BAR SHOP LIST

1228 South 13th

JOB PROJECT I-89-3 (15)

LOCATION WINDOUSHI VT

CUSTOMER BECHY BELLUCCI

DATE 2-16-62

THIS SHEET COVERS SPAN #2 SOUTHBOUND STA 2249+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY YJL

BENT BARS, TIES & STIRRUPS

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN	
1																			
2	62	#5	4-2	SB256P		17	2-6	8	1-0										
3																			
4																			
5	124	#4	5-3	SB254		53	5	1-6	1-3	1-6	5								
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

STRAIGHT BARS

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	30	#6	28-0	SB253			15						
2							16						
3	216	#5	34-4	SB251			17						
4	6	#5	32-2	SB253			18						
5							19						
6	192	#4	27-6	SB252			20						
7							21						
8							22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

Checked  
2-1-62  
JSL  
OK 2/1/62

Approved  
3/2/62  
JSL

CONTRACT No. 11-33758

JOB No.

TOTAL WEIGHT

SHEET No.



REINFORCING BAR SHOP LIST  
1948 U.S.A. 1-52

JOB PROJECT I-89-3 (5)

LOCATION WINDUSHI VT

CUSTOMER BECH & PELLUCCI

DATE 2-16-62

THIS SHEET COVERS SPAN #3 SOUTHBOUND STA 2248+33 22

REVISED 3-12-62

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY VTI

BENT BARS, TIES & STIRRUPS

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN	
HEAVY BENDING																			
1																			
2	22	#6	3-0	SB357		1	8	1-8					8						
3																			
4	31	#5	4-2	SB356P		17	2-6	8	1-0										
5																			
LIGHT BENDING																			
7	26	#4	7-0	SB356A		52	5	2-9	8	2-9	5								
8	30	#4	5-3	SB354		53	5	1-6	1-5	1-6	5								
9																			
10																			
11																			
12																			
13																			
14																			

STRAIGHT BARS

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	20	#6	20-6	SB353			15						
2							16						
3	156	#5	34-4	SB351			17						
4	11	#5	32-2	SB355			18						
5							19						
6	128	#4	20-3	SB352			20						
7							21						
8							22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

O.K. 3-13-62

Approved 3-14-62

TOTAL WEIGHT

CONTRACT No. 11-55958

JOB No.

SHEET No.

WINDUOSH BAR SHOP LTD

PROJECT: 1-19-3 (15) LOCATION: WINDUOSH VT.  
 DRAWN BY: BELLY & BELLUCCI DATE: 2-20-67  
 THIS SHEET COVERS VIEW #1 NORTH BOUND STA 2248+33.22  
 MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150  
 BENT BARS PREFIX ALL BARS WITH NBI SUCH AS NB1P11  
 MADE BY: VJL

Dimensions Omitted are Zero

No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
HEAVY BENDING																	
1	4"	35-8	P11	1	17	1-6	32-8	1-6									
2	4"	15-4	P10		17	1-6	13-7										
3	40"	9-0	P4		2	1-3	5-7										
4	8"	8-10	P14		3		5-10	3-0									1-4-5-8
5	20"	6-3	P30		17	2-6	1-3	2-6									
LIGHT BENDING																	
6	66"	11-7	P17		T1	0-4 1/2	2-4	3-1	2-4	3-1							0-4 1/2
7	4"	11-3	P18		A	0-4 1/2	A	2-11	A	2-11							A
8	4"	11-0	P19			0-5		2-9 1/2		2-9 1/2							
9	4"	10-8	P20			0-4 1/2		2-7 1/2		2-7 1/2							
10	4"	10-5	P21			0-4 1/2		2-6		2-6							
11	4"	10-2	P22			0-5		2-4 1/2		2-4 1/2							
12	4"	9-10	P23			0-4 1/2		2-2 1/2		2-2 1/2							
13	4"	9-7	P24			0-5		2-0 1/2		2-0 1/2							
14	4"	9-3	P25			0-4 1/2		1-11		1-11							
15	4"	9-0	P26			0-4 1/2	∨	1-9 1/2	∨	1-9 1/2							∨
16	4"	8-9	P27		∨	0-5	2-4	1-7 1/2	2-4	1-7 1/2							0-4 1/2
17	4"	8-5	P28		T1	0-4 1/2	2-4	1-6	2-4	1-6							0-4 1/2
18	12"	11-5	P6		T1	0-4 1/2	2-8	2-8	2-8	2-8							0-4 1/2
19	24"	9-3	P7		T1	0-4 1/2	2-8	1-8	2-8	1-8							0-4 1/2
20	24"	8-3	P8		T1	0-4 1/2	1-6	2-3	1-6	2-3							0-4 1/2

Checked 2-1-67  
 302  
 ok w m-1  
 Approved 5/2-67  
 JJK



REINFORCING BAR SHOP LIST

JOB: \_\_\_\_\_ LOCATION: \_\_\_\_\_

CUSTOMER: *WELLS BELLUCI*

DATE: \_\_\_\_\_

THIS SHEET COVERS: *POR #1 NORTH ROAD STA 247+23.22*

REVISED: \_\_\_\_\_

MATERIAL SHOWN ON DRAWING No. *SHEET 127 OF 150*

MADE BY: *174*

STRAIGHT BARS *PREFIX ALL BARS WITH NBI SUCH AS NB1P12*

Line	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	<i>4</i>	<i>1/2"</i>	<i>21-0</i>	<i>P12</i>			51					
2	<i>8</i>	<i>1/2"</i>	<i>12-1</i>	<i>P9</i>			52					
3	<i>3</i>	<i>1/2"</i>	<i>10-0</i>	<i>P13</i>			53					
4							54					
5	<i>40</i>	<i>3/8"</i>	<i>20-11</i>	<i>P5</i>			55					
6	<i>17</i>	<i>3/8"</i>	<i>8-6</i>	<i>P1</i>			56					
7							57					
8	<i>16</i>	<i>3/8"</i>	<i>8-6</i>	<i>P2</i>			58					
9	<i>40</i>	<i>3/8"</i>	<i>6-6</i>	<i>P3</i>			59					
10							60					
11	<i>2</i>	<i>5/8"</i>	<i>32-8</i>	<i>P15</i>			61					
12	<i>2</i>	<i>5/8"</i>	<i>29-4</i>	<i>P16</i>			62					
13	<i>20</i>	<i>5/8"</i>	<i>1-8</i>	<i>P29</i>			63					
14							64					
15							65					
16							66					
17							67					
18							68					
19							69					
20							70					
21							71					
22							72					
23							73					
24							74					
25							75					
26							76					
27							77					
28							78					
29							79					
30							80					

*Checked  
5/21/42  
J.H.*

*OK 2/20-4*

*Approved  
5/21/42  
J.H.*

CONTRACT No. *11-55756*

JOB No. \_\_\_\_\_

TOTAL WEIGHT \_\_\_\_\_

SHEET No. \_\_\_\_\_

REINFORCING BAR (ROP) LIST

PROJECT 11-4-2 (11)

LOCATION WINDUWHI VT.

DATE 2-20-62

REVISED

MADE BY VJL

OWNER PAIK & BELLUCI

SHEET COVERS PAGE 2 NORTH BOUND STA 2+48+93.22

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 130

SENT BARS PREFIX ALL BARS WITH NR2 SUCH AS NR2 P11

Dimensions Omitted are Zero

No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Checking Column						
<b>HEAVY BENDING</b>																																						
4	#	35-8	P11	1	19	1-6	32-8	1-6																														
4	#	15-1	P10		19	1-6	13-7																															
40	#	9-0	P4		2	1-5	5-7																															
8	#	8-10	P14		3		5-10	3-0																														
20	#	6-3	P30		19	2-6	1-3	2-6																														
<b>LIGHT BENDING</b>																																						
66	#	11-7	P19		T1	0-4 1/2	2-4	3-1	2-4	3-1																												
4	#	11-3	P18		A	0-4 1/2	A	2-11	A	2-11																												
4	#	11-0	P17			0-5		2-9 1/2		2-9 1/2																												
4	#	10-8	P20			0-4 1/2		2-7 1/2		2-7 1/2																												
4	#	10-5	P21			0-4 1/2		2-6		2-6																												
4	#	10-2	P22			0-5		2-4 1/2		2-4 1/2																												
4	#	9-10	P23			0-4 1/2		2-2 1/2		2-2 1/2																												
4	#	9-7	P24			0-5		2-0 1/2		2-0 1/2																												
4	#	9-3	P25			0-4 1/2		1-11		1-11																												
4	#	9-0	P26			0-4 1/2	V	1-9 1/2	V	1-9 1/2																												
4	#	8-9	P27		V	0-5	2-4	1-7 1/2	2-4	1-7 1/2																												
4	#	8-3	P28		T1	0-4 1/2	2-4	1-6	2-4	1-6																												
12	#	11-3	P6		T1	0-4 1/2	2-8	2-8	2-8	2-8																												
24	#	9-5	P7		T1	0-4 1/2	2-8	1-8	2-8	1-8																												
24	#	8-9	P8		T1	0-4 1/2	1-6	2-3	1-6	2-3																												

Checked  
3-1-62  
JTC

OK W m d

original  
5/21/62  
JTC

TOTAL WEIGHT

SHEET No.

18

18-19

PROJECT No.

JOB No.



# REINFORCING BAR SHOP LIST

LOCATION

CUSTOMER *LECH BELLOCCI* DATE

THIS SHEET COVERS *P12 #2 NORTH ROAD STA - 242 + 33 12* REVISED

MATERIAL SHOWN ON DRAWING No. *14000 27 X 150* MADE BY *JJC*

STRAIGHT BARS *PREFIX ALL BARS WITH NBA JULY AS NBA P12*

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	4	#4	11-0	P12			31						
2	8	#4	12-1	P12			32						
3	2	#4	10-0	P12			33						
4							34						
5	40	#8	20-8	P15			35						
6	16	#8	8-6	P1			36						
7							37						
8	16	#6	8-6	P2			38						
9	40	#6	6-6	P3			39						
10							40						
11	2	#5	32-8	P15			41						
12	2	#5	29-4	P16			42						
13	20	#5	1-8	P19			43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20							50						
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

*Checked  
3-1-62  
JJC*

*Approved  
3/1/62  
JJC*

*OK WMS*

CONTRACT No. *11-5595*

JOB No.

TOTAL WEIGHT

SHEET No.

*19*

*18-19*

PROJECT: WINDMILL LOCATION: WINDMILL

OWNER: DELAWARE BELL CO. DATE: 11-21-62

DESIGNED BY: WJL REVISIONS: 1

DETAILS SHOWN ON DRAWING: SHEET 127 OF 150 MADE BY: WJL

BENT BARS: PREFIX ALL BARS WITH SRI SUCH AS SRIPIH Dimensions Omitted are Zero

No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	Check Column
<b>HEAVY BENDING</b>																	
4	#4	35-8	P11	17		1-6	32-8	1-6									
4	#4	15-1	P10	17		1-6	13-9										
40	#8	9-0	P4	2	1-3	5-9											
8	#6	8-10	P14	3		5-10	3-0										1-4 5-8
20	#8	6-3	P30	17	2-6	1-3	2-6										
<b>LIGHT BENDING</b>																	
66	#5	11-9	P17	71	0-4 1/2	2-4	3-1	2-4	3-1								0-4 1/2
4	#4	11-3	P18	17	0-4 1/2	2-11		2-11									17
4	#4	11-0	P19		0-5	2-9 1/2		2-9 1/2									17
4	#4	10-8	P20		0-4 1/2	2-9 1/2		2-9 1/2									17
4	#4	10-5	P21		0-4 1/2	2-6		2-6									17
4	#4	10-2	P22		0-5	2-4 1/2		2-4 1/2									17
4	#4	9-10	P23		0-4 1/2	2-2 1/2		2-2 1/2									17
4	#4	9-7	P24		0-5	2-0 1/2		2-0 1/2									17
4	#4	9-3	P25		0-4 1/2	1-11		1-11									17
4	#4	9-0	P26		0-4 1/2	1-9 1/2		1-9 1/2									17
4	#4	8-9	P27		0-5	2-4	1-7 1/2	2-4	1-7 1/2								0-4 1/2
4	#4	8-5	P28		0-4 1/2	2-4	1-6	2-4	1-6								0-4 1/2
4	#4	11-5	P6		0-4 1/2	2-8	2-8	2-8	2-8								0-4 1/2
28	#4	9-3	P4		0-4 1/2	2-8	1-8	2-8	1-8								0-4 1/2
28	#4	8-3	P8		0-4 1/2	1-6	2-3	1-6	2-3								0-4 1/2

Checked  
3-1-62  
JSC  
OK W.M.A.

Approved  
3/2/62  
JWH

REINFORCING BAR SHOP LIST

LOCATION

CUSTOMER *151K COLLIER*

DATE

THIS SHEET COVERS *100' SOUTH ROAD STA 24+33 TO 24+33+22*

REVISED

MATERIAL SHOWN ON DRAWING No. *14000 27 OF 150*

MADE BY *112*

STRAIGHT BARS *PREFIX ALL BARS WITH SBI SUIX AJ SBI/P2*

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	4	1/2	11-0	P12			31						
2	8	1/2	12-1	P17			32						
3	2	1/2	10-0	P13			33						
4							34						
5	40	8	23-4	P5			35						
6	16	8	8-6	P1			36						
7							37						
8	16	8	8-6	P2			38						
9	40	8	6-6	P3			39						
10							40						
11	2	3	32-8	P15			41						
12	2	3	29-4	P16			42						
13	20	3	1-8	P29			43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20							50						
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

Checked  
3-1-62  
JSC

OK 2/11/62

Approved  
3/2/62  
JSC

CONTRACT No. *11-51*

JOB No.

TOTAL WEIGHT

SHEET No.

PROJECT: 100-100-100 STATION: W-10-100  
 DRAWN BY: W. J. L. DATE: 1-1-62  
 SHEET NO. 22 OF 22

REVISIONS: MADE BY V.J.L.  
 MATERIAL SHOWN ON DRAWING No. SHEET 122 OF 150  
 REINFORCING BARS PREFIX ALL BARS WITH S.B.A. SUCH AS SBA #11

No.	Bar	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	N	K	CHECKING ENGINEER
<b>HEAVY BENDING</b>																	
1	#11	35-8	#11	17		1-6	32-8	1-6									
1	#11	15-1	#10	17		1-6	13-9										
10	#8	9-0	#4	2		1-3	5-9									1-7 1/2	
3	#6	8-10	#14	3			5-10	3-0									1-4 5/8
20	#8	6-3	#30	17		2-6	1-3	2-6									
<b>LIGHT BENDING</b>																	
66	#11	11-7	#19	11	0-4 1/2	1-4	3-1	2-4	3-1								0-4 1/2
4	#11	11-3	#18	11	0-4 1/2	1-4	2-11	1-4	2-11								1-4
4		11-0	#17		0-5		2-9 1/2		2-9 1/2								
4		10-8	#20		0-4 1/2		2-7 1/2		2-7 1/2								
4		10-5	#21		0-4 1/2		2-6		2-6								
4		10-2	#22		0-5		2-4 1/2		2-4 1/2								
4		9-10	#23		0-4 1/2		2-2 1/2		2-2 1/2								
4		9-7	#24		0-5		2-0 1/2		2-0 1/2								
4		9-3	#25		0-4 1/2		1-11		1-11								
4		9-0	#26		0-4 1/2	1-9 1/2		1-9 1/2									1-9 1/2
4	#11	8-9	#27	11	0-5	2-4	1-7 1/2	2-4	1-7 1/2								0-4 1/2
4	#11	8-3	#28	11	0-4 1/2	2-4	1-6	2-4	1-6								0-4 1/2
12	#11	11-3	#6	11	0-4 1/2	2-8	2-8	2-8	2-8								0-4 1/2
24	#11	9-3	#9	11	0-4 1/2	2-8	1-8	2-8	1-8								0-4 1/2
24	#11	8-3	#8	11	0-4 1/2	1-6	2-3	1-6	2-3								0-4 1/2

Checked  
 3/1/62  
 SSC  
 ok w/m d

Approved  
 W. J. L.

STEEL STRONG BAR SHOP LIST

PROJECT: *111* LOCATION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NO. OF SHEET COVERS: *2* REVISIONS: \_\_\_\_\_  
 MATERIAL SHOWN ON DRAWING No. \_\_\_\_\_ MADE BY: \_\_\_\_\_  
 STRAIGHT BARS: *FIX ALL END WITH SBR 3/4" x 11 SBR P12*

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
<del>1</del>	<del>1</del>	<del>1/2</del>	<del>1</del>	<del>PT</del>			31						
<del>2</del>	<del>1</del>	<del>1/2</del>	<del>1</del>	<del>PT</del>			32						
<del>3</del>	<del>2</del>	<del>1/2</del>	<del>10-0</del>	<del>PT</del>			33						
<del>4</del>	<del>10</del>	<del>3/4</del>	<del>21-1</del>	<del>PT</del>			34						
<del>5</del>	<del>10</del>	<del>3/4</del>	<del>8-6</del>	<del>PT</del>			35						
<del>6</del>	<del>11</del>	<del>3/4</del>	<del>8-6</del>	<del>PT</del>			36						
<del>7</del>	<del>40</del>	<del>3/4</del>	<del>6-6</del>	<del>PT</del>			37						
<del>8</del>	<del>2</del>	<del>1</del>	<del>32-8</del>	<del>PT</del>			38						
<del>9</del>	<del>2</del>	<del>1</del>	<del>32-4</del>	<del>PT</del>			39						
<del>10</del>	<del>20</del>	<del>3/4</del>	<del>1-8</del>	<del>PT</del>			40						
							41						
							42						
							43						
							44						
							45						
							46						
							47						
							48						
							49						
							50						
							51						
							52						
							53						
							54						
							55						
							56						
							57						
							58						
							59						
							60						

*Checked  
3-1-62  
JTC*  
*OK [unclear]*

*Approved  
3/2/62  
JWH*



REINFORCING BAR SHOP LIST  
FORM No. A 100

JOB PROJECT I-89-3 (15)

LOCATION WINDUSHI, VT

CUSTOMER BELLY BELLUCCI

DATE 2-22-62

THIS SHEET COVERS SOUTH ABUTMENT NORTHBOUND STA 2248+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY VJL

BENT BARS, TIES & STIRRUPS PREFIX ALL BARS WITH 'SAN'

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				HEAVY BENDING														
3	16	5	12-5	BA7		14		7-5	5-0									403-0

STRAIGHT BARS PREFIX ALL BARS WITH 'SAN'

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	7	1	35-6	BA2			15						
2							16						
3	8	6	35-6	BA3			17						
4	17	6	5-6	BA1			18						
5	17	6	7-6	BA4			19						
6							20						
7	23	3	11-0	BA8			21						
8							22						
9	32	4	9-0	BA6			23						
10	16	4	8-0	BA5			24						
11	8	4	3-4	BA9			25						
12							26						
13							27						
14							28						

Checked  
3-1-62  
JJC  
otc w m-3

Approved  
3/2/62  
JJC

TOTAL WEIGHT

SHEET No.

CONTRACT No. 11-35758

JOB No.



REINFORCING BAR SHOP LIST

1957 M.S.A. 1-52

JOB PROJECT I-87-2 (15)

LOCATION WINDUSH, VT

CUSTOMER BELM & BELLUCCI

DATE 2-21-62

THIS SHEET COVERS NORTH ABUTMENT NORTHBOUND STA 22457+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 129 OF 150

MADE BY VJL

BENT BARS, TIES & STIRRUPS PREFIX ALL BARS WITH NAN

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN	
1																			
				HEAVY BENDING															
3	12	#6	5-0	BA6		14		2-6	2-6									1-91-7	
5	16	#5	13-0	BA7		14		7-5	5-7									4-03-10	

STRAIGHT BARS PREFIX ALL BARS WITH NAN

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	4	#7	35-6	BA2			15						
2							16						
3	7	#6	33-6	BA3			17						
4	49	#6	5-0	BA3			18						
5	17	#6	2-6	BA1			19						
6	17	#6	2-6	BA4			20						
7							21						
8	24	#5	11-3	BA10			22						
9							23						
10	22	#4	9-0	BA8			24						
11	17	#4	5-0	BA7			25						
12	8	#4	3-4	BAH			26						
13							27						
14							28						

Checked  
3-1-62  
JSC

OK VJL

Approved  
3/2/62  
HWH

CONTRACT No. 11-55758

JOB No.

TOTAL WEIGHT

SHEET No.



REINFORCING BAR SHOP LIST

12784 (Rev. 1-72)

JOB PROJECT E-89-3 (18)

LOCATION WINDUSHI VT

CUSTOMER BECH & BELLUCCI

DATE 2-21-07

THIS SHEET COVERS SOUTH ABUTMENT SOUTHBOUND STA 2248+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 129 OF 150

MADE BY VJL

BENT BARS, TIES & STIRRUPS PREFIX ALL BARS WITH SAS

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				HEAVY BENDING														
3	16	3	12-5	BAT		14		7-5	5-0									4-0 3-0

STRAIGHT BARS PREFIX ALL BARS WITH SAS

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	6	7	35-6	BAR			15						
3	8	6	35-6	BAR			16						
4	17	6	5-6	BAR			17						
5	17	6	1-6	BAR			18						
7	24	3	11-0	BAR			19						
9	32	4	9-0	BAR			20						
10	16	4	8-0	BAR			21						
11	8	7	3-4	BAR			22						

Checked 3-1-07 JJC

OK WMD

Approved 3/2/07 JJC

CONTRACT No. 11-85958

JOB No.

TOTAL WEIGHT

SHEET No. 23



REINFORCING BAR SHOP LIST

1938-6-4-1-28

JOB PROJECT E-89-3 (15)

LOCATION WINDUSHI, VT

CUSTOMER BECKY BELLUCCI

DATE 2-21-62

THIS SHEET COVERS NORTH ABUTMENT SOUTHBOUND STA 2748+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. TUBET 127 OF 150

MADE BY VJL

BENT BARS, TIES & STIRRUPS PREFIX ALL BARS WITH "NAS" Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				HEAVY BENDING														
2																		
3	12	6	5-0	BA6		14		2-6	2-6									1-917
4																		
5	16	5	13-0	BA9		14		7-5	5-9									4-0310
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

STRAIGHT BARS PREFIX ALL BARS WITH "NAS"

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	4	7	35-6	BA2			15						
2							16						
3	7	6	35-6	BA3			17						
4	48	6	5-0	BA5			18						
5	17	6	2-6	BA1			19						
6	17	6	1-6	BA4			20						
7							21						
8	24	5	11-3	BA10			22						
9							23						
10	52	4	9-0	BA8			24						
11	16	4	6-0	BA7			25						
12	8	4	3-4	BA11			26						
13							27						
14							28						

Checked  
3-1-62  
JTC  
OK w/m.l

Approved  
3/21/62  
JVL

CONTRACT No. 11-55758

JOB No.

TOTAL WEIGHT

SHEET No.



REINFORCING BAR SHOP LIST

1234 5th Ave. N.W.

JOB PROJECT I-89-3 (15)

LOCATION WINDOOSKI VT.

CUSTOMER BECK & BELLUCCI

DATE 2-21-62

THIS SHEET COVERS APPROACH SLAB #1 NORTH BOUND STA 2248+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY VJL

BENT BARS PREFIX ALL BARS WITH "NBI"

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	CHECKING COLUMN
HEAVY BENDING																		
1	1	#6	26-10	AS1DD		1	1	25-9								9		
2	1	#6	26-7	AS1CC		↑	↑	25-6								↑		
3	1	#6	26-5	AS1BB				25-4										
4	1	#6	26-2	AS1AA				25-1										
5	1	#6	26-0	AS1Z				24-11										
6	1	#6	25-9	AS1Y				24-8										
7	1	#6	25-7	AS1X				24-6										
8	1	#6	25-4	AS1W				24-3										
9	1	#6	25-1	AS1V				24-0										
10	1	#6	24-11	AS1U				23-10										
11	1	#6	24-8	AS1T				23-7										
12	1	#6	24-6	AS1S				23-5										
13	1	#6	24-3	AS1R				23-2										
14	1	#6	24-0	AS1Q				22-11										
15	1	#6	23-10	AS1P				22-9										
16	1	#6	23-7	AS1O				22-6										
17	1	#6	23-5	AS1N				22-4										
18	1	#6	23-2	AS1M				22-1										
19	1	#6	23-0	AS1L				21-11										
20	1	#6	22-9	AS1K				21-8										
21	1	#6	22-6	AS1J				21-5										
22	1	#6	22-4	AS1I				21-3										
23	1	#6	22-1	AS1H				21-0										
24	1	#6	21-11	AS1G				20-10										
25	1	#6	21-8	AS1F				20-7										
26	1	#6	21-5	AS1E				20-4										
27	1	#6	21-3	AS1D				20-2										
28	1	#6	21-0	AS1C		✓	✓	19-11								✓		
29	1	#6	20-10	AS1B		1	1	19-9								7		

Checked  
5-1-62  
SSC

OK Wm J

Approved  
3/2/62  
VJL

TOTAL WEIGHT

CONTRACT No. 11-53758

JOB No.

SHEET No. 27

REINFORCING BAR SHOP LIST

JOB: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 CUSTOMER: *DELA & BELLUCCI* DATE: *2-21-62*  
 THIS SHEET COVERS: *APPROACH ROAD #1 NORTH BOUND STA 2248+33 22* REVISED: \_\_\_\_\_  
 MATERIAL SHOWN ON DRAWING No: *SHEET 127 OF 150* MADE BY: *VJL*

**BENT BARS, TIES & STIRRUPS** PREFIX ALL BARS WITH "NBI"

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1																		
2	1	10	20-9	AS1A														
3																		
4																		
5																		
6	10	3	5-0	AS7														
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

**STRAIGHT BARS** PREFIX ALL BARS WITH "NBI"

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	3	10	7-5	AS3			15						
2	2	10	7-2	AS4			16						
3							17						
4	24	5	29-6	AS5			18						
5	2	5	16-4	AS10			19						
6	2	5	5-10	AS8			20						
7	2	5	5-6	AS9			21						
8	16	5	3-6	AS6			22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

*Checked  
3-1-62  
JJA*

*Approved  
3/2/62  
JJA*

*OK W.M.D.*

CONTRACT No. *11-53788*

JOB No. \_\_\_\_\_

TOTAL WEIGHT \_\_\_\_\_

SHEET No. \_\_\_\_\_

*28-29*

JOB NO. 11-51758 (51) LOCATION WINDSOR, VT.  
 CUSTOMER BECH & PELLUCCI DATE 2-21-67  
 THIS SHEET COVERS ATTACH SLAB #2 NORTH ROAD STA 2248+33.22 REVISED  
 MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150 MADE BY VJL

BENT BARS PREFIX ALL BARS WITH "NB2" Dimensions Omitted are Zero

No.	Size	Length	Max.	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
HEAVY BENDING																	
1	20	26-10	AS10D		1	1-1	25-9										9
1	A	26-7	AS1CC		1	1-1	25-6										1
1		26-3	AS1BB				25-4										
1		26-2	AS1AA				25-1										
1		26-0	AS1Z				24-11										
1		25-9	AS1Y				24-8										
1		25-7	AS1X				24-6										
1		25-4	AS1W				24-3										
1		25-1	AS1V				24-0										
1		24-11	AS1U				23-10										
1		24-8	AS1T				23-7										
1		24-6	AS1S				23-5										
1		24-3	AS1R				23-2										
1		24-0	AS1Q				22-11										
1		23-10	AS1P				22-9										
1		23-9	AS1O				22-6										
1		23-5	AS1H				22-4										
1-		23-2	AS1M				22-1										
1		23-0	AS1L				21-11										
1		22-9	AS1K				21-8										
1		22-6	AS1J				21-5										
1		22-4	AS1I				21-3										
1		22-1	AS1G				21-0										
1		21-11	AS1F				20-10										
1		21-8	AS1E				20-7										
1		21-5	AS1D				20-4										
1		21-3	AS1C				20-2										
1	Y	21-0	AS1B		Y	Y	19-11										✓
1	70	20-10	AS1A		1	1-1	19-7										9

Checked 3/1/67 JJC

OK 3/20/67 J

Approved 3/1/67 JJC

TOTAL WEIGHT



REINFORCING BAR SHOP LIST

1222 1/2 x 1 1/2

JOB \_\_\_\_\_ LOCATION \_\_\_\_\_

CUSTOMER *PEPA* DATE *2-21-62*

THIS SHEET COVERS *APPARATUS LEAF #2 NORTH POWAN STA 2248+33.22* REVISED \_\_\_\_\_

MATERIAL SHOWN ON DRAWING No. *SHEET 127 OF 150* MADE BY *VJL*

**BENT BARS, TIES & STIRRUPS** *PREFIX ALL PARTS WITH "NB2"* Dimensions Omitted are Zero

No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	CHECKING COLUMN
<i>HEAVY BENDING</i>																	
<i>1</i>	<i>10</i>	<i>20-9</i>	<i>AS1A</i>						<i>1-11</i>	<i>19-6</i>						<i>9</i>	
<i>LIGHT BENDING</i>																	
<i>10</i>	<i>8</i>	<i>5-0</i>	<i>AS7</i>					<i>515</i>	<i>6</i>	<i>1-9</i>	<i>6</i>	<i>1-9</i>				<i>6</i>	

**STRAIGHT BARS** *PREFIX ALL PARTS WITH "NB2"*

No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item No.	No.	Size	Length	Mark	Weight	CHECKING COLUMN
<i>2</i>	<i>10</i>	<i>7-5</i>	<i>AS2</i>			<i>15</i>						
<i>2</i>	<i>10</i>	<i>7-2</i>	<i>AS4</i>			<i>16</i>						
<i>24</i>	<i>5</i>	<i>29-6</i>	<i>AS3</i>			<i>17</i>						
<i>2</i>	<i>5</i>	<i>16-4</i>	<i>AS10</i>			<i>18</i>						
<i>2</i>	<i>5</i>	<i>5-10</i>	<i>AS2</i>			<i>19</i>						
<i>2</i>	<i>5</i>	<i>5-6</i>	<i>AS9</i>			<i>20</i>						
<i>16</i>	<i>5</i>	<i>3-6</i>	<i>AS6</i>			<i>21</i>						
						<i>22</i>						
						<i>23</i>						
						<i>24</i>						
						<i>25</i>						
						<i>26</i>						
						<i>27</i>						
						<i>28</i>						

*checked  
3-1-62  
JJA*

*etc. w/nd*

*approved  
3/2/62  
JJA*

CONTRACT No. *17-2-1-62*

JOB No. \_\_\_\_\_

TOTAL WEIGHT \_\_\_\_\_

SHEET No. *1 of 1*



REINFORCING BAR SHOP LIST

JOB PROJECT 3-89-3 (15)

LOCATION WINDOSHI, VT.

CUSTOMER BELK & BELLUCCI

DATE 2-21-62

THIS SHEET COVERS APPROACH SLAB #1, SOUTH BOUND STA 2248+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY VJL

BENT BARS PREFIX ALL BARS WITH "SBI"

Dimensions Omitted are Zero

Item	No.	Size	Length	Bars	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				<u>HEAVY BENDING</u>														
2	1	#10	25-10	ASIDD		1	1-1	25-9										9
3	1	#10	26-9	ASICC		1	1-1	25-6										1
4	1	#10	26-3	ASIRB				25-4										
5	1	#10	26-2	ASIAA				25-1										
6	1	#10	26-0	ASIK				24-6										
7	1	#10	25-9	ASIIY				24-8										
8	1	#10	25-7	ASIX				24-6										
9	1	#10	25-4	ASIIW				24-3										
10	1	#10	25-1	ASIV				24-0										
11	1	#10	24-11	ASIU				23-10										
12	1	#10	24-8	ASIT				23-7										
13	1	#10	24-6	ASIS				23-5										
14	1	#10	24-3	ASIR				23-2										
15	1	#10	24-0	ASIIY				22-11										
16	1	#10	23-10	ASIP				22-9										
17	1	#10	23-9	ASIO				22-6										
18	1	#10	23-5	ASIH				22-4										
19	1	#10	23-2	ASIM				22-1										
20	1	#10	23-0	ASIL				21-11										
21	1	#10	22-9	ASIH				21-8										
22	1	#10	22-6	ASIJ				21-5										
23	1	#10	22-4	ASII				21-3										
24	1	#10	22-1	ASIH				21-0										
25	1	#10	21-11	ASIG				20-10										
26	1	#10	21-8	ASIF				20-7										
27	1	#10	21-5	ASIE				20-4										
28	1	#10	21-3	ASID				20-2										
29	1	#10	21-0	ASIC			4-4	19-11										V
30	1	#10	20-10	ASIB			1-1	19-9										9

*Checked  
3-1-62  
JJC  
OK 3/1/62*

*Approved  
3/1/62  
JJC*

TOTAL WEIGHT

CONTRACT No. 11-55758

JOB No.

SHEET No.



REINFORCING BAR SHOP LIST

JOB LOCATION

CUSTOMER *PECH & BELLUSCI* DATE *2-21-62*

THIS SHEET COVERS APPROXIMATE LAMP #1 SOUTH BOUND STA 2248+33.22 REVISIONS

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 130 MADE BY *VJL*

BENT BARS, TIES & STIRRUPS PREFIX ALL BARS WITH "SBI" Dimensions Omitted are Zero

No.	Qty	Length	Mark	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	CHECKING COLUMN
1	1		<i>HEAVY BENDING</i>														
2	1	<i>2-9</i>	<i>AS4</i>	<i>1.14</i>	<i>19-6</i>												
3			<i>LIGHT BENDING</i>														
4	10	<i>3-5-0</i>	<i>AS7</i>	<i>58.6</i>	<i>1-9-6</i>				<i>1-9</i>								<i>6</i>

STRAIGHT BARS PREFIX ALL BARS WITH "SBI"

No.	Qty	Length	Mark	Weight	CHECKING COLUMN	No.	Qty	Length	Mark	Weight	CHECKING COLUMN
1	2	<i>7-3</i>	<i>AS3</i>			18					
2	2	<i>7-2</i>	<i>AS4</i>			19					
3						20					
4	24	<i>3-29-6</i>	<i>AS5</i>			21					
5	2	<i>3-16-4</i>	<i>AS10</i>			22					
6	2	<i>3-5-10</i>	<i>AS8</i>			23					
7	2	<i>3-5-6</i>	<i>AS9</i>			24					
8	16	<i>3-6</i>	<i>AS6</i>			25					
9						26					
10						27					
11						28					
12						29					
13						30					
14						31					

*Checked 3-1-62 JSC*

*OK 2/21/62*

*Reviewed 3/1/62 JSC*

CONTRACT No. *11-738* JOB No. TOTAL WEIGHT

SHEET No. *33 of 33*



REINFORCING BAR SHOP LIST

FORM NO. 2 (1977)

JOB PROJECT I-89-3 (15)

LOCATION WINDUSHI, VT.

CUSTOMER BECK & BELLUCCI

DATE 2-21-02

THIS SHEET COVERS APPROACH SLAB #2 JWB STA BOUND STA 2248+33.22

REVISED

MATERIAL SHOWN ON DRAWING No. SHEET 127 OF 150

MADE BY VJL

BENT BARS PREFIX ALL BARS WITH "5B2"

Dimensions Omitted are Zero

Line	No.	Qty	Length	Mark	Weight	Type	A	B	C	D	E	F	G	H	I	J	K	CHECKING COLUMN
1				HEAVY BENDING														
2	1	10	26-10	ASIDD		1 1-1	25-9											
3	1	1	26-7	ASICC		A A	25-6											
4	1	1	26-5	ASIEB			25-4											
5	1	1	26-2	ASIAA			25-1											
6	1	1	26-0	ASIZ			24-11											
7	1	1	25-9	ASLY			24-8											
8	1	1	25-7	ASLX			24-6											
9	1	1	25-4	ASLW			24-3											
10	1	1	25-1	ASLV			24-0											
11	1	1	24-11	ASLU			23-10											
12	1	1	24-8	ASLT			23-7											
13	1	1	24-6	ASLS			23-5											
14	1	1	24-3	ASLR			23-2											
15	1	1	24-0	ASLY			22-11											
16	1	1	23-10	ASLP			22-7											
17	1	1	23-9	ASLO			22-6											
18	1	1	23-3	ASLH			22-4											
19	1	1	23-2	ASLM			22-1											
20	1	1	23-0	ASIL			21-11											
21	1	1	22-9	ASIH			21-8											
22	1	1	22-6	ASIS			21-5											
23	1	1	22-4	ASII			21-3											
24	1	1	22-1	ASIH			21-0											
25	1	1	21-11	ASIG			20-10											
26	1	1	21-8	ASIF			20-7											
27	1	1	21-3	ASIE			20-4											
28	1	1	20-3	ASID			20-2											
29	1	9	21-0	ASIC		V V	19-11											
30	1	10	20-14	ASIA		1 1-1	19-9											

Checked  
5-1-02  
JTC  
sic 5/28/02

Reviewed  
3/2/02  
JTC

CONTRACT No. 11-33758

JOB No.

TOTAL WEIGHT

SHEET No. 1



# REINFORCING BAR SHOP LIST

1978-1981

JOB \_\_\_\_\_ LOCATION \_\_\_\_\_

CUSTOMER *PELA - BELLUCCI*

DATE *2-21-04*

THIS SHEET COVERS *APPROXIMATE LAMP #2 SOUTH BOUND STA 2248+33.22*

REVISED \_\_\_\_\_

MATERIAL SHOWN ON DRAWING No. *SHEET 127 OF 150*

MADE BY *VJL*

## BENT BARS, TIES & STIRRUPS PREFIX ALL PART WITH "SB2"

Dimensions Omitted are Zero

Item	No.	Size	Length	Mark	Weight	Type	A	B	C	D	E	F	G	J	O	H	K	CHECKING COLUMN
1				<i>HEAVY BENDING</i>														
2	<i>1</i>	<i>#10</i>	<i>20-9</i>	<i>AS1A</i>		<i>1</i>	<i>1-1</i>	<i>19-6</i>										<i>9</i>
3																		
4				<i>LIGHT BENDING</i>														
5																		
6	<i>10</i>	<i>#5</i>	<i>5-0</i>	<i>AS7</i>		<i>9</i>	<i>5-6</i>	<i>1-9</i>	<i>6</i>	<i>1-9</i>								<i>6</i>
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

## STRAIGHT BARS PREFIX ALL PART WITH "SB2"

Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN	Item	No.	Size	Length	Mark	Weight	CHECKING COLUMN
1	<i>2</i>	<i>#10</i>	<i>7-5</i>	<i>AS3</i>			15						
2	<i>2</i>	<i>#10</i>	<i>7-2</i>	<i>AS4</i>			16						
3							17						
4	<i>24</i>	<i>#5</i>	<i>29-6</i>	<i>AS5</i>			18						
5	<i>2</i>	<i>#5</i>	<i>16-4</i>	<i>AS10</i>			19						
6	<i>2</i>	<i>#5</i>	<i>5-10</i>	<i>AS2</i>			20						
7	<i>2</i>	<i>#5</i>	<i>5-6</i>	<i>AS9</i>			21						
8	<i>16</i>	<i>#5</i>	<i>3-6</i>	<i>AS6</i>			22						
9							23						
10							24						
11							25						
12							26						
13							27						
14							28						

*Checked  
3-10-02  
JJC  
OK W/M/A*

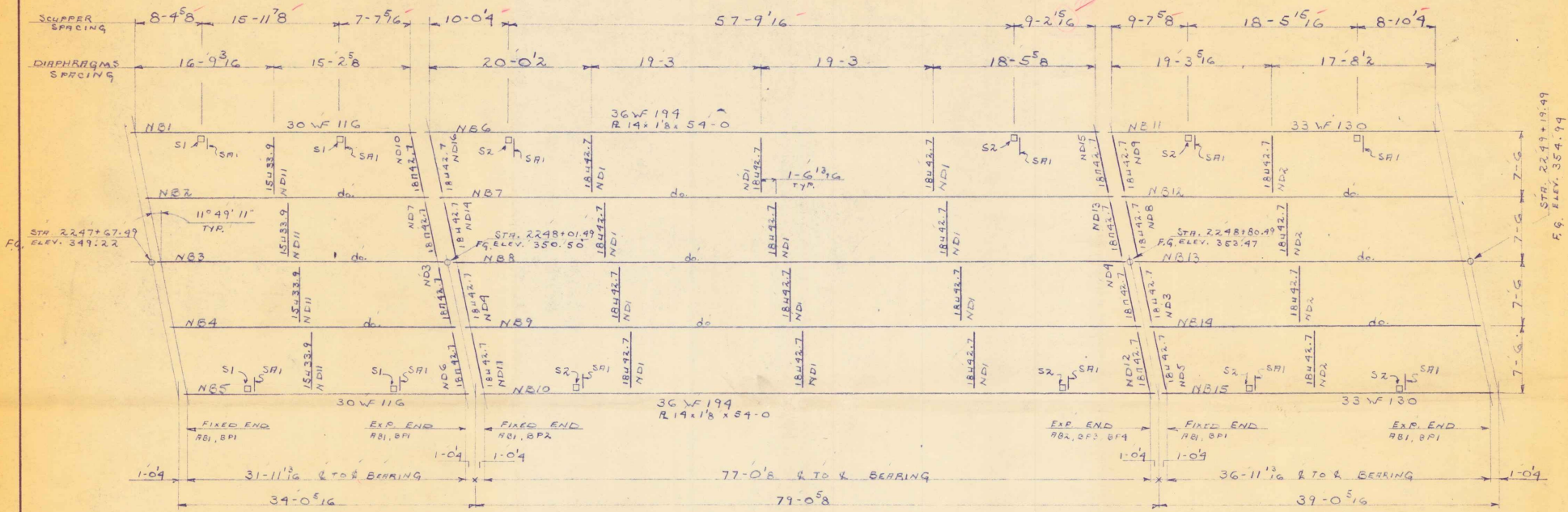
*Approved  
3/21/04  
JJC*

TOTAL WEIGHT \_\_\_\_\_

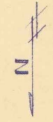
JOB No. \_\_\_\_\_

SHEET No. *35 OF*

*34-35*

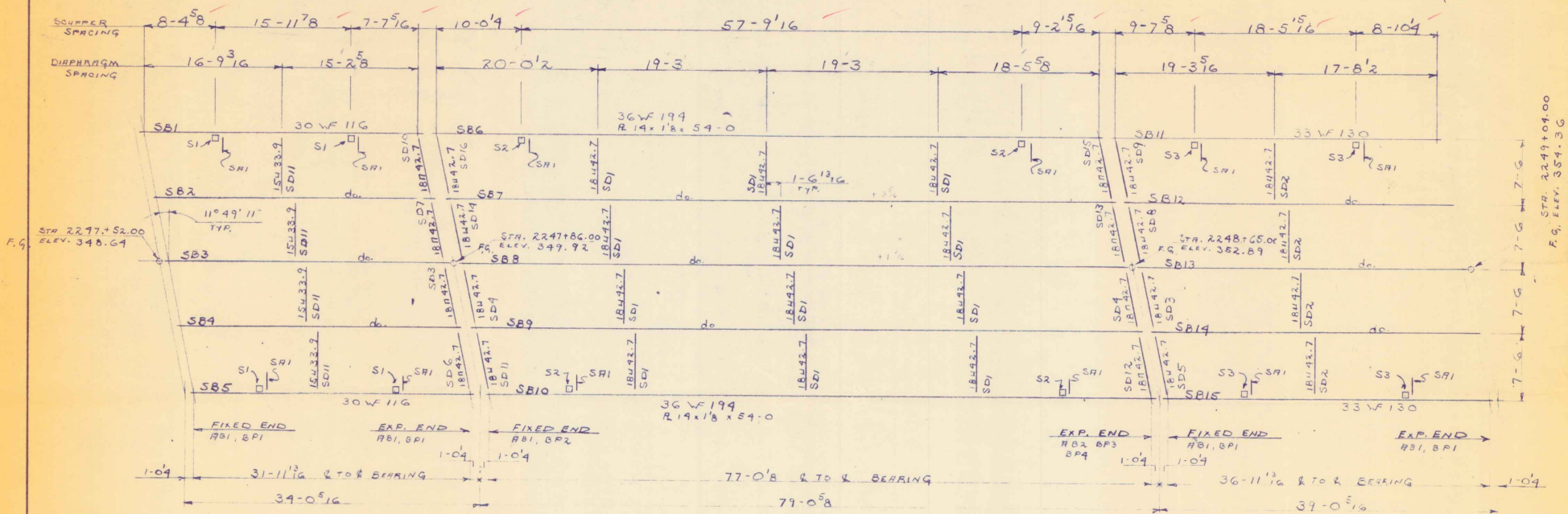


PLACEMENT PLAN FOR NORTH BOUND BRIDGE



*chkd ok  
3/20/62  
RJD*  
*Amended  
4-3-62  
JH*

REV. PER. APP. 3-28-62 HP		VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.	
DATE		PROJECT COLCHESTER BR I 69-3 US	
DRAWN BY HP 1-22-60		LOCATION COLCHESTER, VT.	
CHK'D BY HT 5/1/60		CUSTOMER BECK & BELLUCCI	
HOLES		ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS	
RIVETS		JOB NO. 62-993 SHEET NO. P1	
PAINT R.L. (VT. SPEC.)		PRINT RECORD	
		NO.	FOR DATE
		2	HDP 3-16
		4	APP 3-28



PLACEMENT PLAN FOR SOUTH BOUND BRIDGE

REV. PER. APP. 3-28-62 HP		VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.	
DRAWN BY HP 1-22-62		PROJECT COLCHESTER BR I 89-3 US	
C'D BY		LOCATION COLCHESTER, VT.	
		CUSTOMER BECKE SELLUCCI	
HOLES		ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS	
RIVETS		JOB NO. 62-993	
PAINT B.L. (VT. SPEC)		SHEET NO. P2	
		PRINT RECORD	
NO.	FOR	DATE	
3	APP	3-16	
4	SHOP APP	3-28	

BILL OF MATERIAL

NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
		100- SWEDGE BOLTS	AB1	(8)	
		10- do	do	AB2	
100	AB1	1 1/4" ROD	1	3	RF5 @ 90-0
10	AB2	do	1	7	do
110		1 1/4" HEX. NUTS			
110		1 1/4" WASHERS	0	0 3/8	
8-		SCUPPERS S1, 8-SCUPPERS S2			(5)
		8-SCUPPERS S3			
48	ca9 1/2	GE 10.5	1	9 1/2	RF5 @ 90-45
16	ca9 1/2	do	2	11 1/2	do
16	ca9 1/2	do	3	5 1/2	do
16	ca9 1/2	do	3	2 1/2	do
24	ba9	BAR 1x 1/2	0	6	STH
48	bb9	do	0	4	STB
		LODGE ANGLES			(1)
24		L 2x2x 1/4	1	4	RF5 @ 90-0
		FIELD MAT.			(12)
704		7/8" AL. TEN. BOLTS	0	2 1/2	
1408		7/8" HARD WASHERS			
		3/16" WELD	90	0	
		PAINT 1/2 OF 17%			

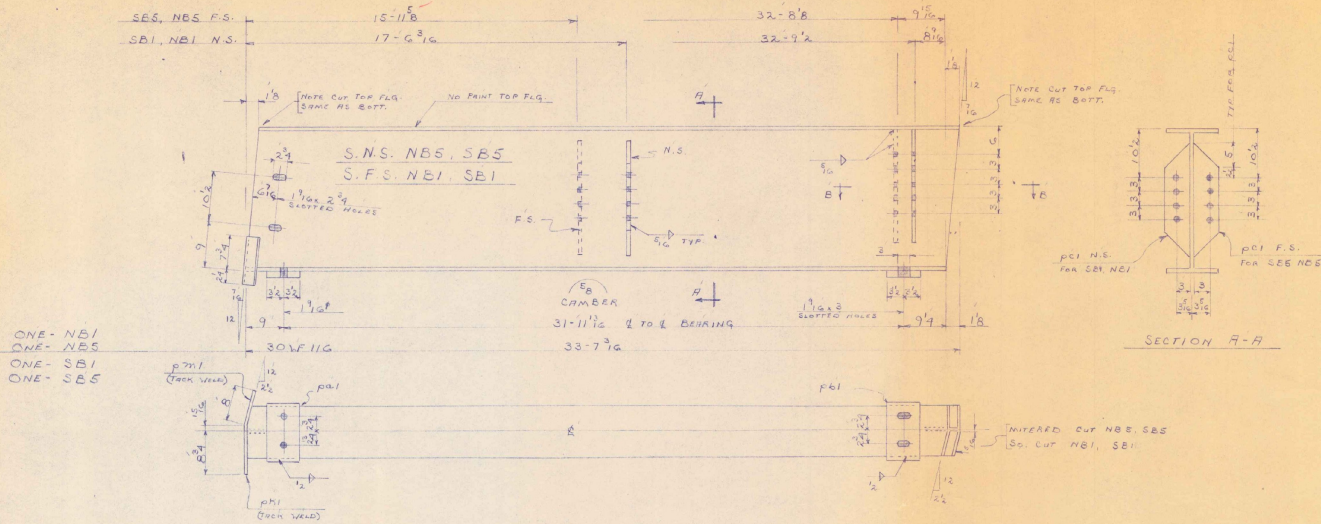
REV PER APP 3-28-62

VERMONT STRUCTURAL STEEL CORPORATION  
BURLINGTON, VT.

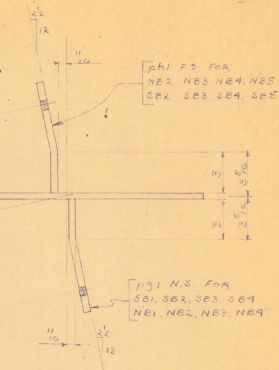
*Checked  
4-3-62  
JH*

PROJECT COLCHESTER BR. I 87-3 (S)	DATE	PRINT RECORD
LOCATION COLCHESTER VT.	3-7-62	NO. FOR DATE
CUSTOMER BECK & BELLUCI		3 RF5 3-16
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS		6" SHOP 3-22
JOB NO. 62-473		SHEET NO. 46
PAIN R.L. (VT. SPEC)		
HOLES 15 1/2" HAS NOTEL		
RIVETS		

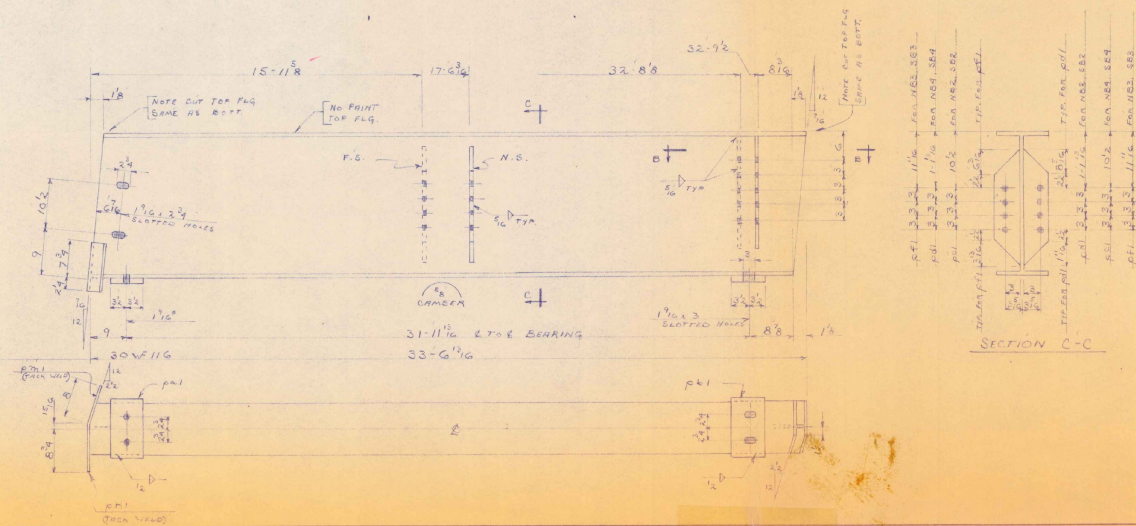




ONE - NB1  
ONE - NBS  
ONE - SB1  
ONE - SB5



SECTION B-B



ONE - NB2  
ONE - NBS  
ONE - NB4  
ONE - SB2  
ONE - SB3  
ONE - SB4

NO.		MARK	DESCRIPTION	LENGTH	WEIGHT
FEET	IN.			FT.	IN.
- F.C.M.S. -					
1		NB1	30" x 11 1/2"	33	7 1/2
1		NB2	do	33	6 1/2
1		NB3	do	33	6 1/2
1		NB4	do	33	6 1/2
1		NBS	do	33	7 1/2
1		SB1	do	33	7 1/2
1		SB2	do	33	6 1/2
1		SB3	do	33	6 1/2
1		SB4	do	33	6 1/2
1		SB5	do	33	7 1/2
10		pci	SOLE PLATE 7x1	0	1 1/2
10		pci	do	0	1 1/2
2		pci	BRACE 2x4	2	0
4		pci	do	2	0
4		pci	do	2	0
8		pci	B.B. 1/2"	1	9
8		pci	do	1	9
10		pci	B.B. 1/2"	0	10
10		pci	do	0	10
			1/2" S. WELD	33	4
			3/8" S. WELD	13	8
			PAINT 2x2x1/4"		

REV PER APP 3-28-62

VERMONT STRUCTURAL STEEL CORPORATION  
BURLINGTON, VT.

PROJECT COLCHESTER BR. I 59-2 (40)

LOCATION COLCHESTER, VT.

CUSTOMER BECK & BRAWLEY

ARCHITECT STATE DEPT. OF HIGHWAYS

JOB NO. 62-973 SHEET NO. 1

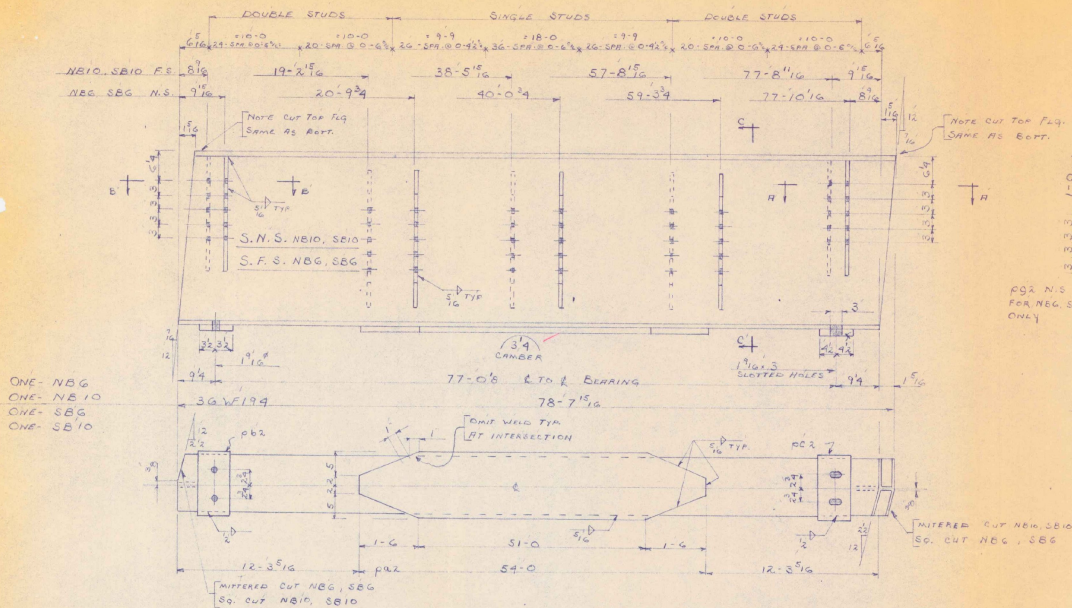
DATE 11-22-62

NO. FOR DATE

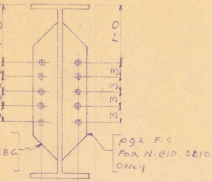
1 11-22-62

2 11-22-62

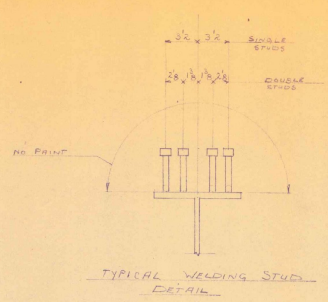
3 11-22-62



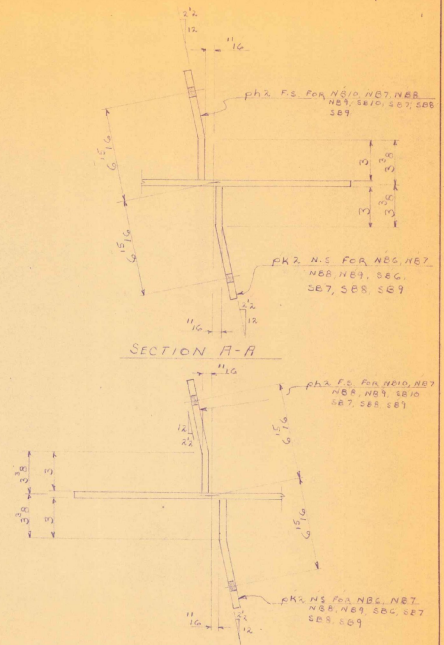
ONE-NB6  
ONE-NB10  
ONE-SB6  
ONE-SB10



SECTION C-C

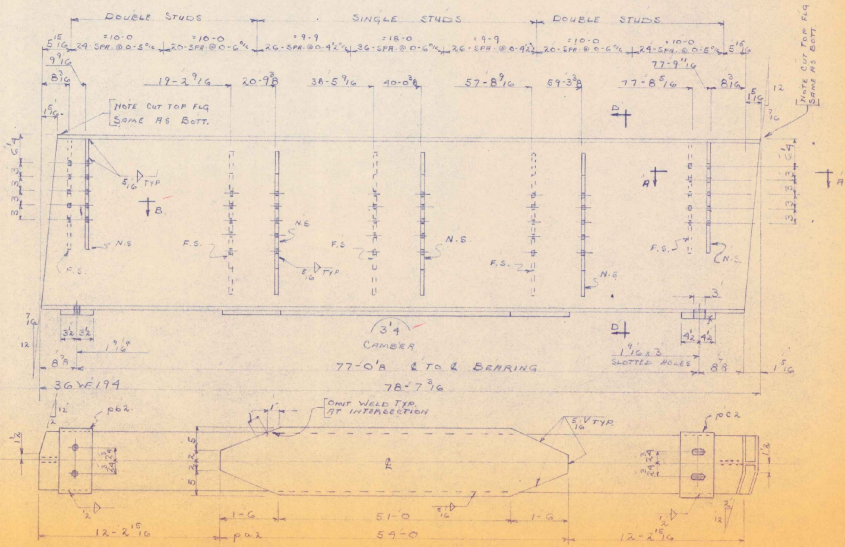


TYPICAL WELDING STUD DETAIL

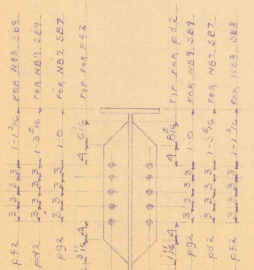


SECTION A-A

SECTION E-E



ONE-NB7  
ONE-NB8  
ONE-NB9  
ONE-SB7  
ONE-SB8  
ONE-SB9



SECTION D-D

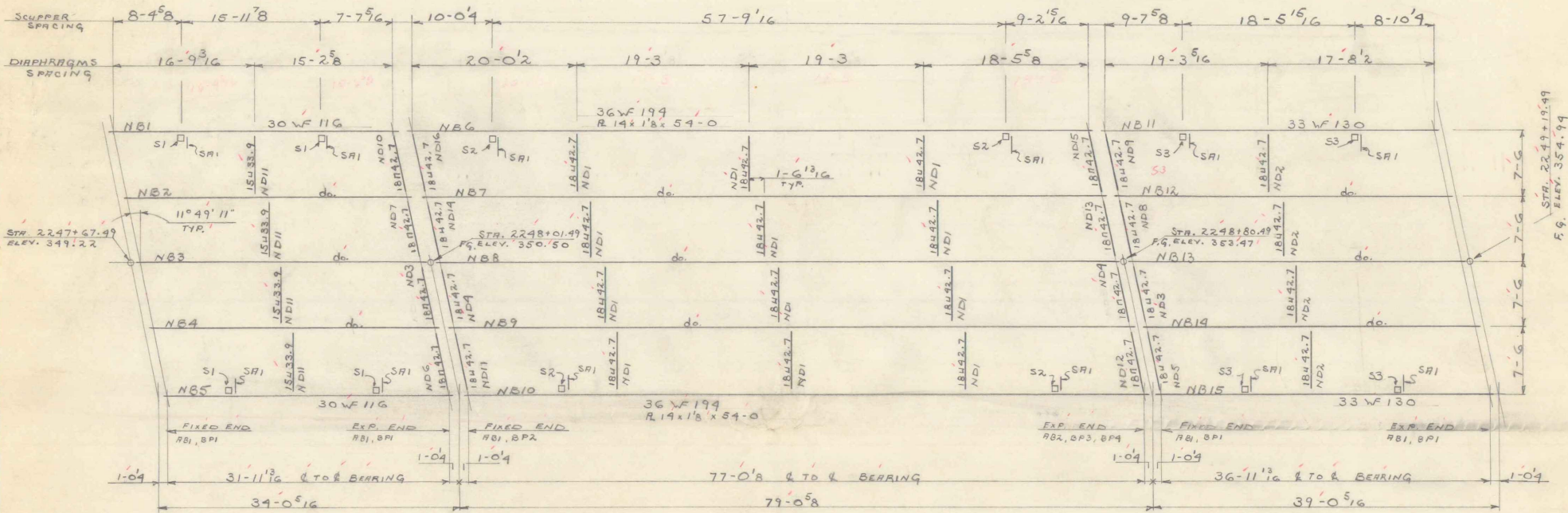
ASTM-A325		BILL OF MATERIAL		WEIGHT	
QTY	DESCRIPTION	LEN	WT	QTY	WT
BEAMS					
1	NB6 3G.V.179	78	77 1/2		
1	NB7 do	78	77 1/2		
1	NB8 do	78	77 1/2		
1	NB9 do	78	77 1/2		
1	NB10 do	78	77 1/2		
1	SB6 do	78	77 1/2		
1	SB7 do	78	77 1/2		
1	SB8 do	78	77 1/2		
1	SB9 do	78	77 1/2		
1	SB10 do	78	77 1/2		
10	PK2 R191'S	59	0		
10	PK2 Sole R 741	1	1/8		
10	PK2 Sole R 741	1	1/8		
12	PK2 BURST'S	2	6		
12	PK2 do	2	6		
24	PK2 do	2	6		
16	PK2 R BX'S	2	0		
16	PK2 X	2	0		
	24 WELD	26	5		
	104 WELD	1460	8		
	PAINT 1/2 gal 170				
	CONF G2-992-1				
	247 Welding Studs	0	0		
S240					
REV PER APP 3-29-66 VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.					
DRAWN BY HP 3-26-66		PROJECT COACHESTER BR I A9-3 (05)		PRINT RECORD	
CHECK BY		LOCATION COACHESTER, VT.		NO. FOR DATE	
		CUSTOMER BOK & BELLUSCI		3 6/28 3-66	
158		ARCHITECT SPIES & SP. CO. INC. OF MIDDLEBURY		67 1/16 3-66	
160		JOB NO. G2-992-504		SHEET NO. 2	
PRINT BY (C.D. 200)		G2-992-1 VERMONT STEEL			







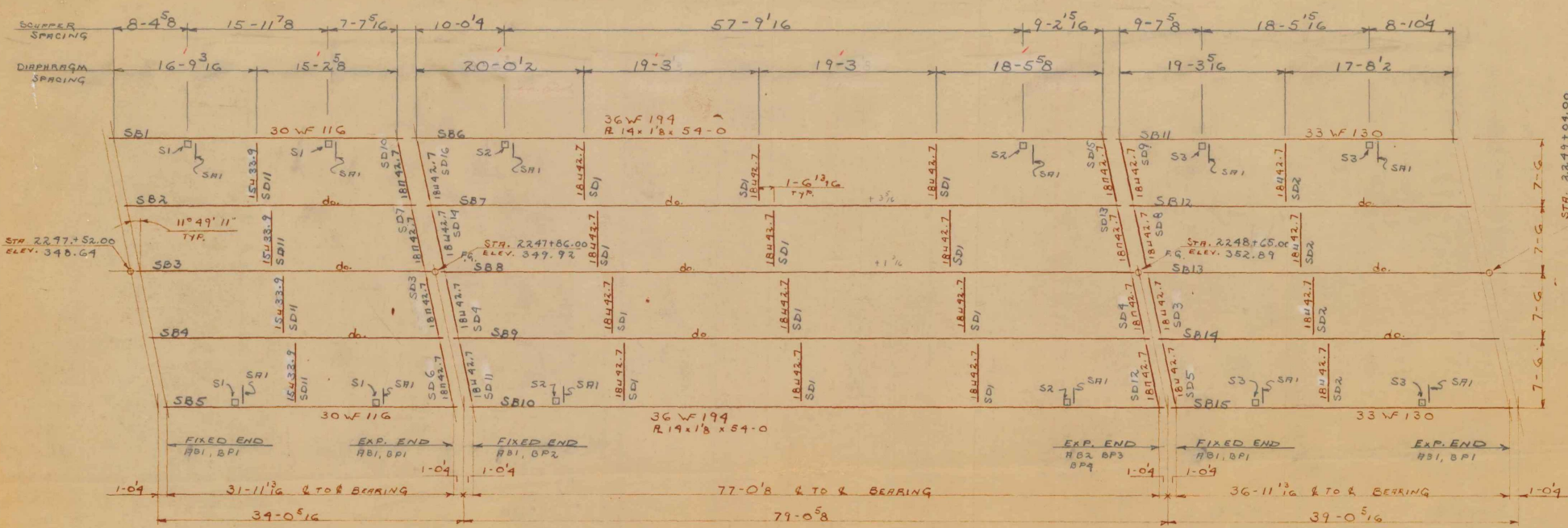




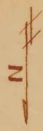
PLACEMENT PLAN FOR NORTH BOUND BRIDGE



REV. PER. APP. 3-28-62 HP			
VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.			
DATE	PROJECT COLCHESTER BA I 89-3 (S)	PRINT RECORD	
DRAWN BY HP 1-22-62	LOCATION COLCHESTER, VT.	NO.	FOR DATE
CK'D BY H.T. 5-16-62	CUSTOMER BECK & BELLUCCI	3	APP 2-16
		4	APP 3-28
HOLES	ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS	3	FIELD 4-3
RIVETS	JOB NO. 62-493	SHEET NO. P1	
PAINT R.L. (VT. SPEC.)			

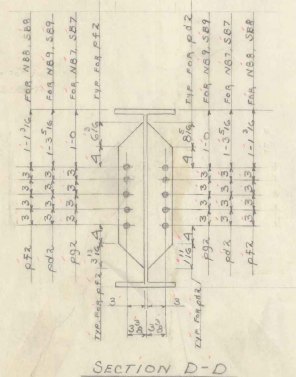
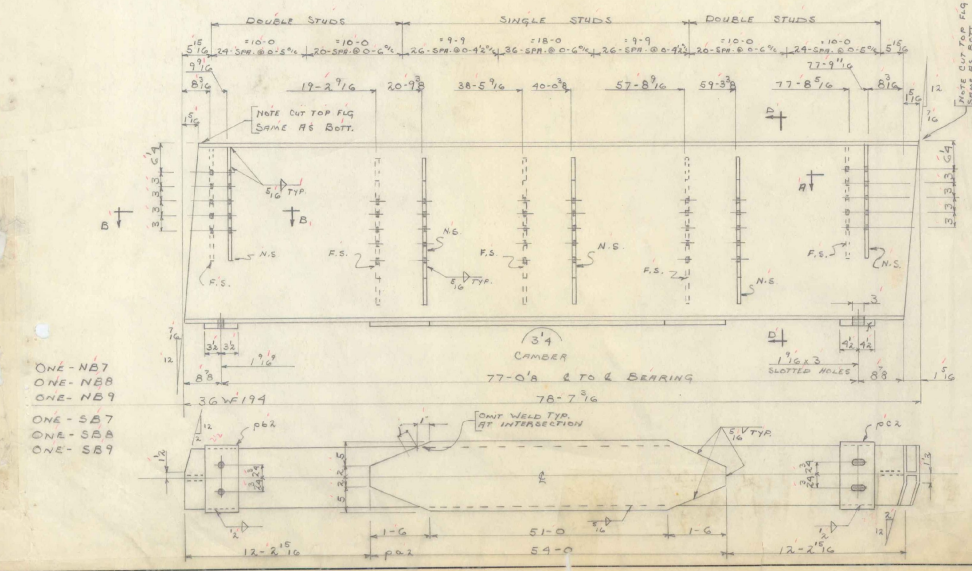
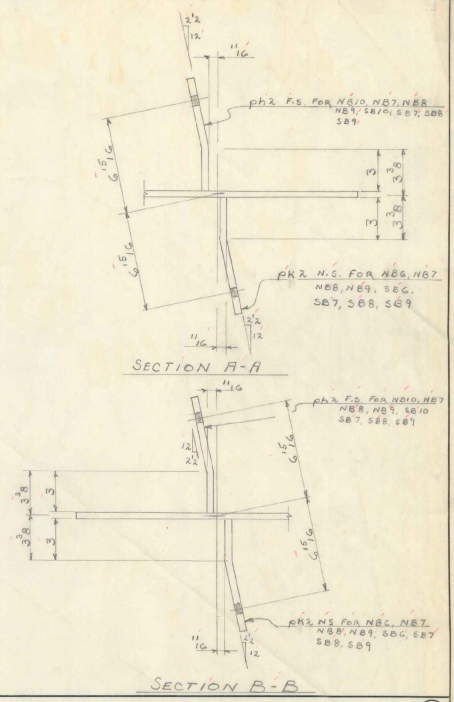
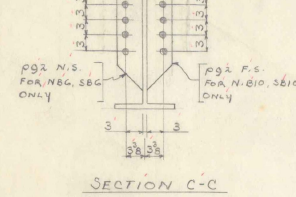
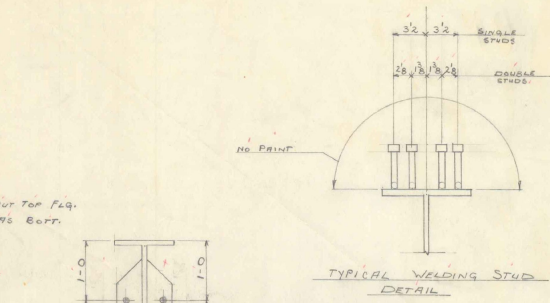
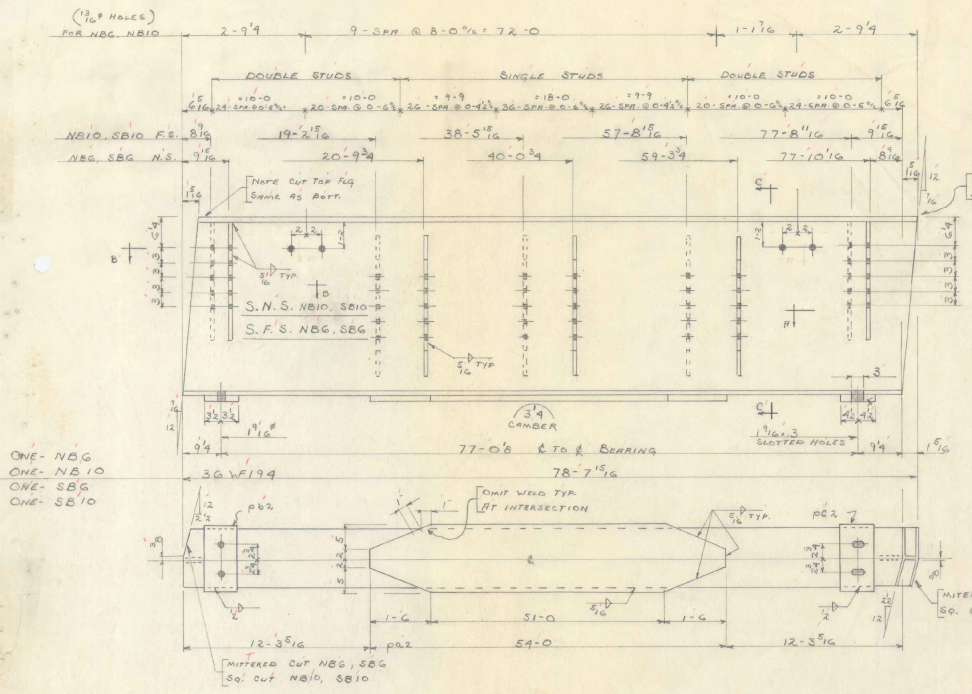


PLACEMENT PLAN FOR SOUTH BOUND BRIDGE

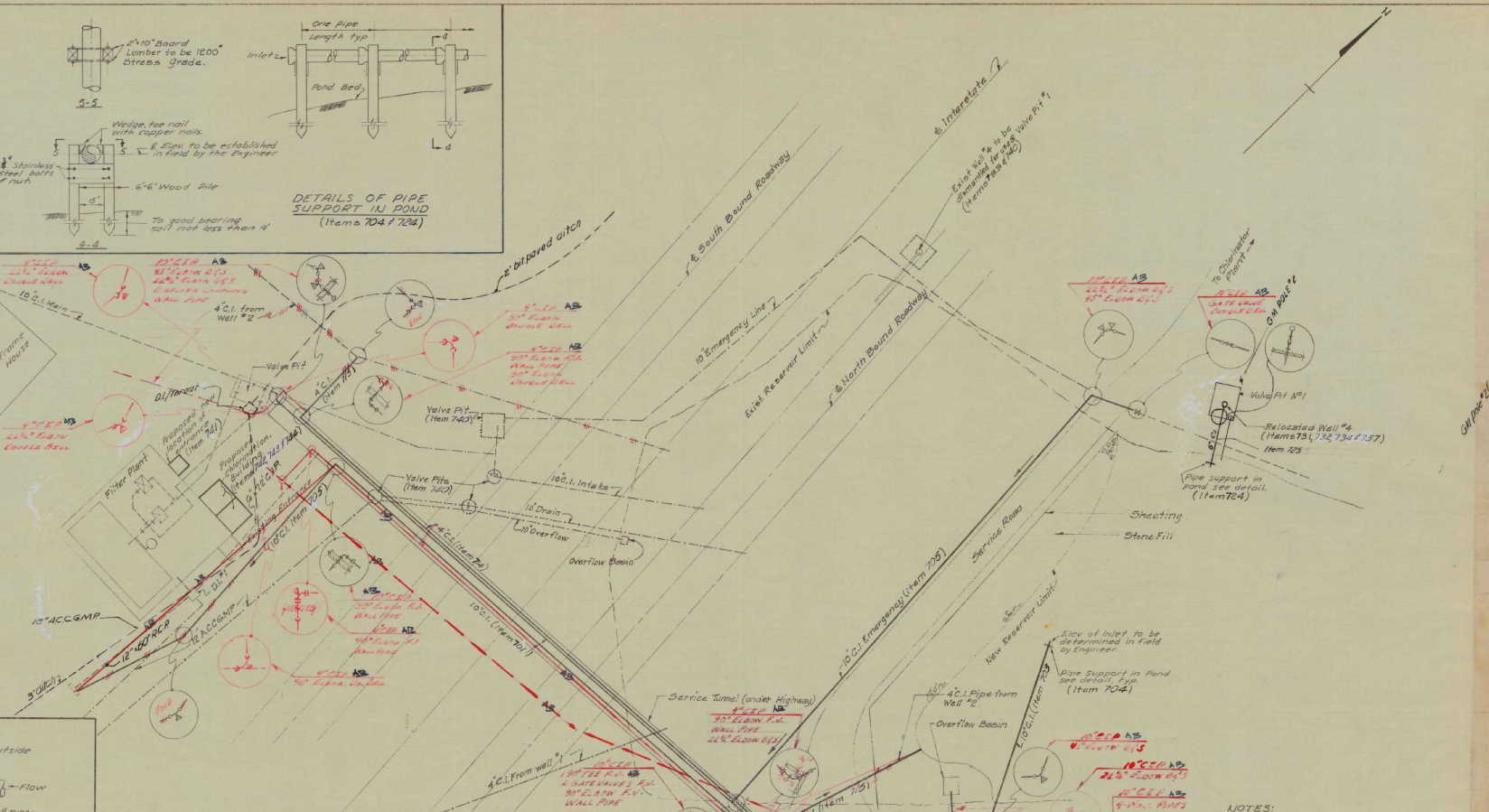
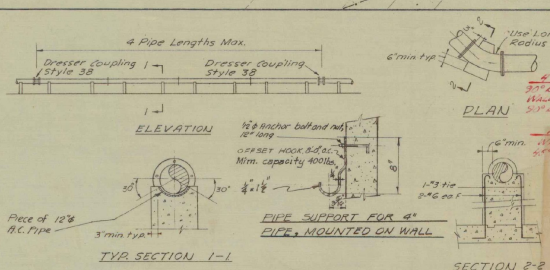
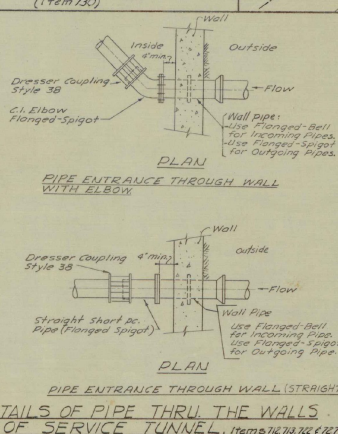
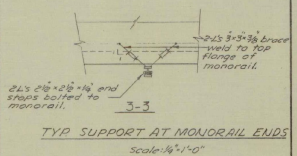
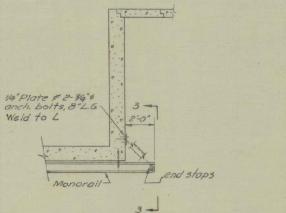
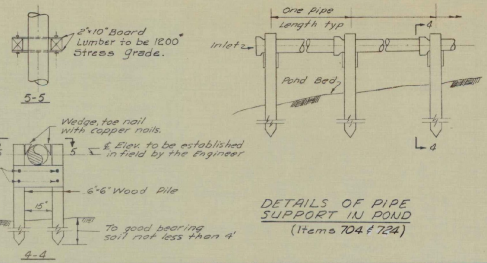
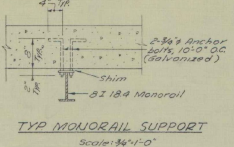


REV. PER. APP. 3-28-62 HP		VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.	
PROJECT COLCHESTER BR I 89-3 (US)		PRINT RECORD	
LOCATION COLCHESTER, VT.		NO.	FOR DATE
CUSTOMER BECK & BELLUCCI		3	MPP 3-16
ARCHITECT STATE OF VT. DEPT. OF HIGHWAYS		4	SHOP APP 3-28
JOB NO. 62-993		4	FIELD 4-3
SHEET NO. PR			





ASTM-A372 UNLESS NOTED OTHERWISE		BILL OF MATERIAL			WEIGHT
NO.	MARK	DESCRIPTION	LENGTH	PL. IN.	
BEAMS					
1'	NB6	3GVF199	78	7 1/2	1078.7
1'	NB7	do.	78	7 3/4	1078.6
1'	NB8	do.	78	7 3/4	1078.6
1'	NB9	do.	78	7 3/4	1078.6
1'	NB10	do.	78	7 1/2	1078.7
1'	SB6	do.	78	7 1/2	1078.7
1'	SB7	do.	78	7 3/4	1078.6
1'	SB8	do.	78	7 3/4	1078.6
1'	SB9	do.	78	7 3/4	1078.6
1'	SB10	do.	78	7 1/2	1078.7
10	PG2	#14 x 1 1/8	54	0	ONE, 87760 1-ER. RM.
15	PG2	SCALE PL. 7 x 1	1	1 1/8	1-ER. RM.
12	PG2	SCALE PL. 9 x 1 1/2	1	1 1/8	1-ER. RM.
12	PG2	BRK 5/8 x 2	2	6	ONE, 87760 1-ER. RM.
12	PG2	do.	2	6	ONE, 87760 1-ER. RM.
24	PG2	do.	2	6	ONE, 87760 1-ER. RM.
16	PG2	BR 8 x 1 1/2	2	0	ONE, 87760 1-ER. RM.
16	PG2	do.	2	0	ONE, 87760 1-ER. RM.
1/2 WELD 26' 6"					
5/16 WELD 160' 0"					
PAINT 1/2 OF 17'					
CONF G2-993-1					
299 WELDING STUDS 0' 1 1/2"					
REV. PER. APP. 3-28-63 VERMONT STRUCTURAL STEEL CORPORATION BURLINGTON, VT.					
DATE		PROJECT	COLCHESTER BR. I 87-3 (S)		PRINT RECORD
DRAWN BY HP 3-5-63		LOCATION	COLCHESTER, VT.		NO. FOR DATE
C'D BY AT 3-5-63		CUSTOMER	BECK & BELURCI		2 900 3-28
HOLES 1/8" DIA NOTED		ARCHITECT	STATE OF VT. DEPT. OF HIGHWAY		20 830 3-28
PAINT A.L. (V.P. SPEC.)		JOB NO.	G2-993 CM		SHEET NO. 2
G2-993-1 WELDING STUDS					



**LEGEND**

	Flanged Spigot Joint	Flanged Bell Joint	Flanged Bell Joint	Bell & Spigot Joint
Gate Valve				
Tees				
Elbows				
Wall Pipe				
Dresser Coupling				

Existing Structures  
Existing Pipe Lines to Remain  
Existing Pipe Lines to Be Abandoned  
Existing Facilities to Be Demolished  
New Pipe Lines of Structures  
Trust Block Intersect

Scale: 1"=20'-0"

- NOTES:**
- All invert elevations of pipes to be determined in field by the Engineer.
  - All gate valves shall be of double seal type.
  - Gate valves in trenches shall be furnished with valve box and extended stem.

**STAGE I CONSTRUCTION**

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

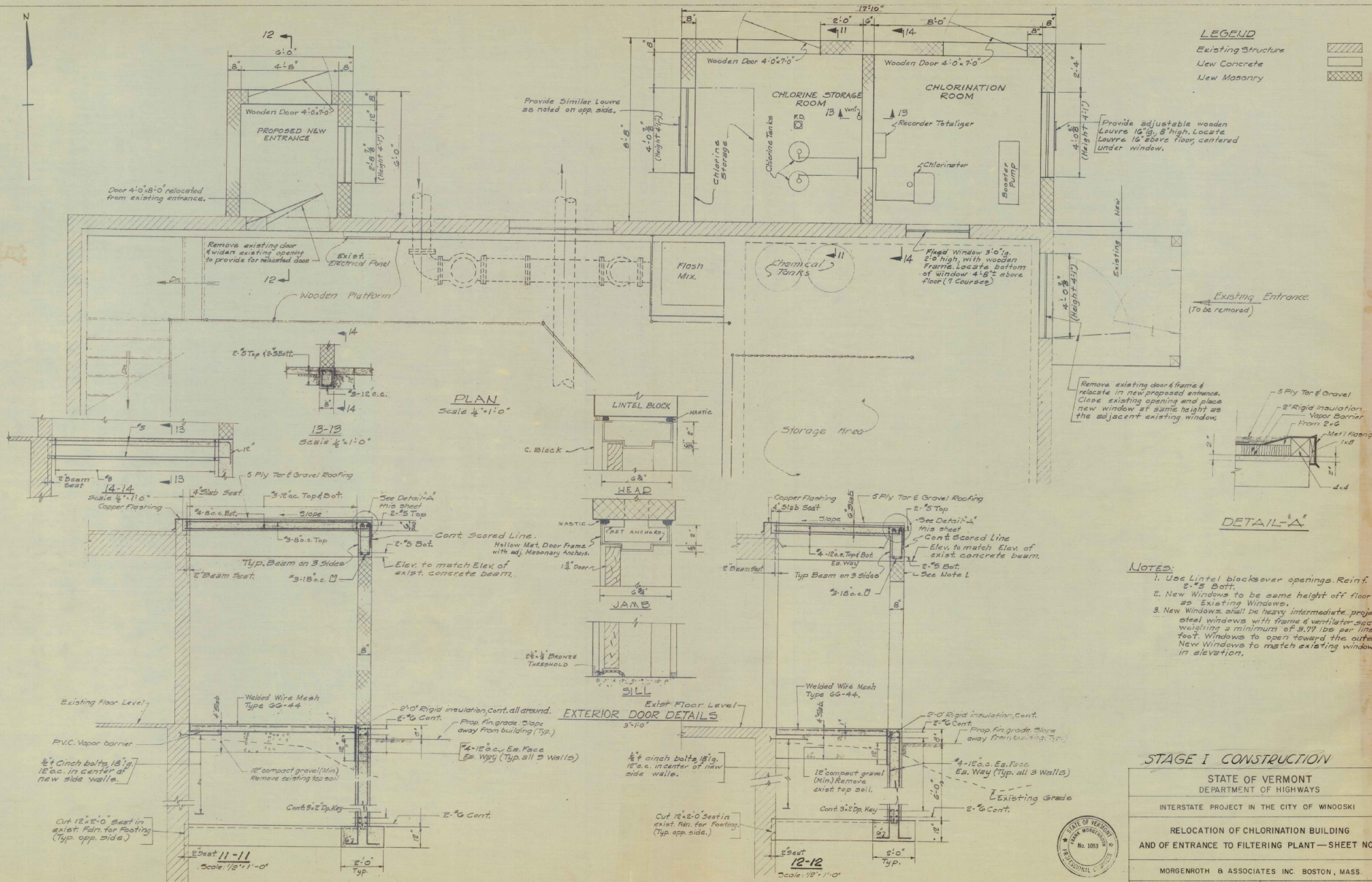
INTERSTATE PROJECT IN THE CITY OF WINOOSKI

**RELOCATION OF UTILITIES**

MORGENROTH & ASSOCIATES INC. BOSTON, MASS.

PROJECT NO. 1-89-3(15) DRAWING NO. 1 OF 4

Sheet 144 of 150 Sheets



**LEGEND**

	Existing Structure
	New Concrete
	New Masonry

**PLAN**  
Scale 1/4" = 1'-0"

**13-13**  
Scale 1/4" = 1'-0"

**EXTERIOR DOOR DETAILS**

**12-12**  
Scale 1/8" = 1'-0"

**DETAIL-A**

- NOTES:**
1. Use Lintel blocks over openings. Reinf. 2" x 2" Batt.
  2. New Windows to be same height off floor as Existing Windows.
  3. New Windows shall be heavy intermediate projected steel windows with frame & ventilator sections weighing a minimum of 375 lbs per linear foot. Windows to open toward the outside. New Windows to match existing windows in elevation.

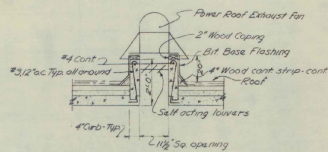
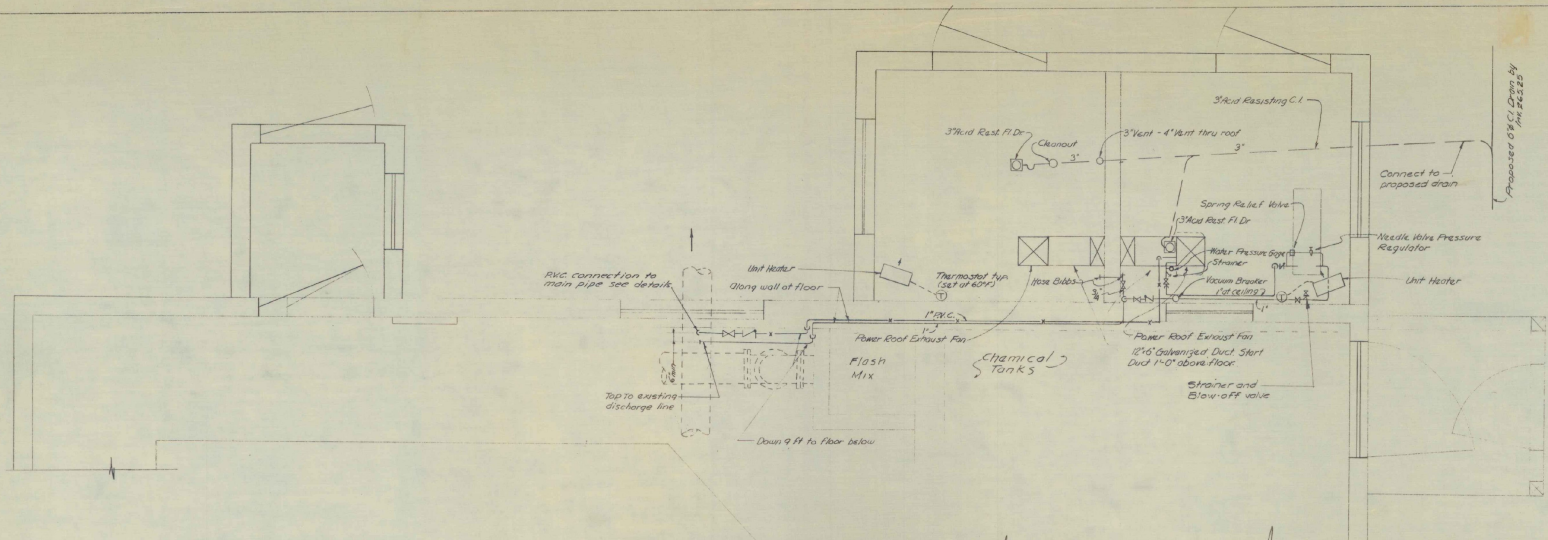
**STAGE I CONSTRUCTION**

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE CITY OF WINDSOOKI

RELOCATION OF CHLORINATION BUILDING  
AND OF ENTRANCE TO FILTERING PLANT—SHEET NO. 1





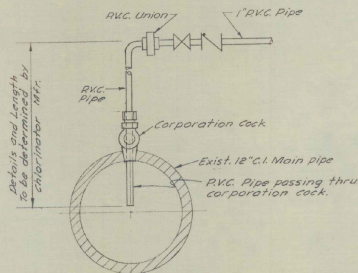
POWER ROOF EXHAUST FAN DETAIL  
No scale

MECHANICAL EQUIPMENT SCHEDULE

HEATING  
2- Blower-Type Unit Heaters Each Unit 3kw @ 240 Volt with wall mounted brackets. locate near ceiling. Thermostat: 3°F Differential, 40°F to 80°F Temp. Range- locate 5'0\"/>

VENTILATION  
2 Power Roof Exhaust Fans, each rated at Minimum of 300 cfm, at 1/2\"/>

PLAN  
Scale: 1/2" = 1'-0"



DETAIL OF CHLORINE SOLUTION PIPE CONNECTION TO EXISTING C.I. MAIN

PLUMBING LEGEND

- Gate Valve
- Check Valve
- Non-Resisting C.I.
- Copper Tubing
- P.V.C. Pipe

NOTES

1. All water piping shall be Type L copper tubing with cast brass solder joint fitting.
2. All valves shall be 125 psi W.S.P. Bronze.
3. P.V.C. pipe shall be specified in specifications.

STAGE I CONSTRUCTION  
HEATING, VENTILATION & PLUMBING

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

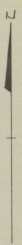
INTERSTATE PROJECT IN THE CITY OF WINOOSKI

RELOCATION OF CHLORINATION BUILDING  
AND OF ENTRANCE TO FILTERING PLANT—SHEET NO. 2

MORGENROTH & ASSOCIATES INC BOSTON, MASS.

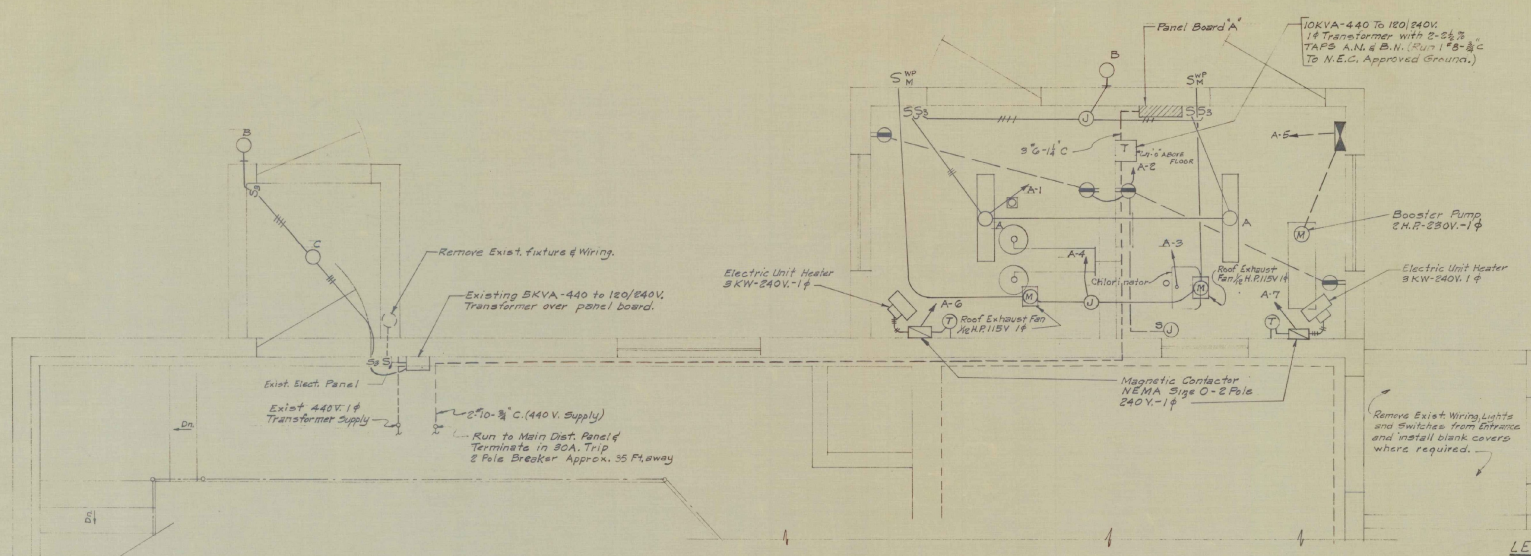
PROJECT NO T-89-3(15) DRAWING NO. 3 OF 4

Sheet 146 of 150 Sheets



FIXTURE SCHEDULE					
TYPE	MTS.	LAMP DATA			
	HGT.	NO.	TYPE	FRAME	WATTS
A	9'-0"	2	RS	40	
B	9'-0"	1	I	150	
C	8'-0"	1	I	100	

PANEL SCHEDULE					
POWER PANEL "A" (120/240V. 1 $\phi$ 3 WIRE)					
CIR. NO.	LOAD SERVED	BRANCH CIRCUIT BREAKERS			
		NO.	RIES	FRAME	TRIP
A-1	Lighting	1	1	100	20
A-2	Receptacles	1	1	100	20
A-3	Chlorinator	1	1	100	20
A-4	Exhaust Fan (1/2 HP)	1	1	100	20
A-5	Booster Pump (3 KW)	1	2	100	30
A-6	Unit Heater (3 KW)	1	2	100	20
A-7	Unit Heater (3 KW)	1	2	100	20
A-8	Spare	1	1	100	20
A-9	Spare	1	1	100	20



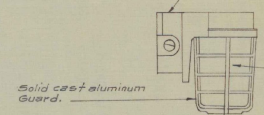
Remove Exist. Wiring Lights and Switches from Entrance and install blank covers where required.

**LEGEND**

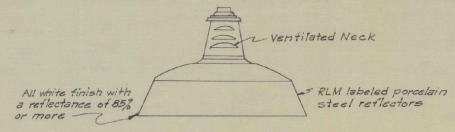
- Fluorescent Fixture Outlet
- ▲ Fixture Type
- Ceiling Outlet
- Wall Outlet
- Junction Box
- ⊙ Thermostat
- ⊙ Motor
- ⊕ Duplex Convenience Outlet, 3 Pole, 2 Wire Grounded Type.
- ⊖ Single Pole Switch
- ⊗ Three Way Switch
- ⊘ Manual Motor Switch With Thermal Overload-Weatherproof.
- ⊙ Power Panelboard
- ⊙ Magnetic Contactor
- ⊙ Magnetic Motor Starter, With Hand-Off-Auto Switch in Cover.
- Conduit Run Concealed in Ceiling or Wall.
- Conduit Run Exposed
- Conduit Run Concealed in or under Floor.
- Home Run to Panelboard. Arrowheads indicate Number of Circuits. Note: Any Circuit without Further Designation indicates a two Wire Circuit. A Greater Number of Wires are Indicated: (++) Three Wires, (+++) Four Wires, etc.

**PLAN**  
Scale: 1/8" = 1'-0"

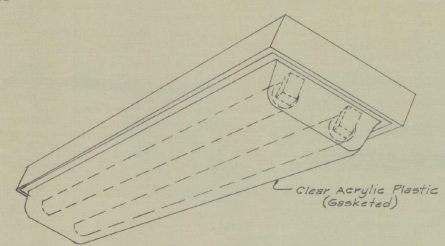
Cast Aluminum with Anodized satin aluminum finish.



**TYPE "B" FIXTURE**



**TYPE "C" FIXTURE**



**TYPE "A" FIXTURE**

**ELECTRICAL NOTES**

1. Service to the Exist. Building is 440 Volts, 3 Phase, 3 Wire.
2. All Wiring shall be in 3/4" rigid steel Conduit using #12 AWG minimum size.

**STAGE I CONSTRUCTION ELECTRICAL**

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT IN THE CITY OF WINOOSKI

RELOCATION OF CHLORINATION BUILDING  
AND OF ENTRANCE TO FILTERING PLANT—SHEET NO 3

MORGENROTH & ASSOCIATES INC. BOSTON, MASS.

PROJECT NO 1-89-3(15) DRAWING NO 4 OF 4

Sheet 147 of 150 Sheets



Vermont Agency of  
Transportation  
PHASE 1-INTERSTATE  
#122302-01



INITIALS

HANGER 287<sup>ONE</sup>

\*

1962

Winooski - Colchester  
I 89-3 (15)

1962