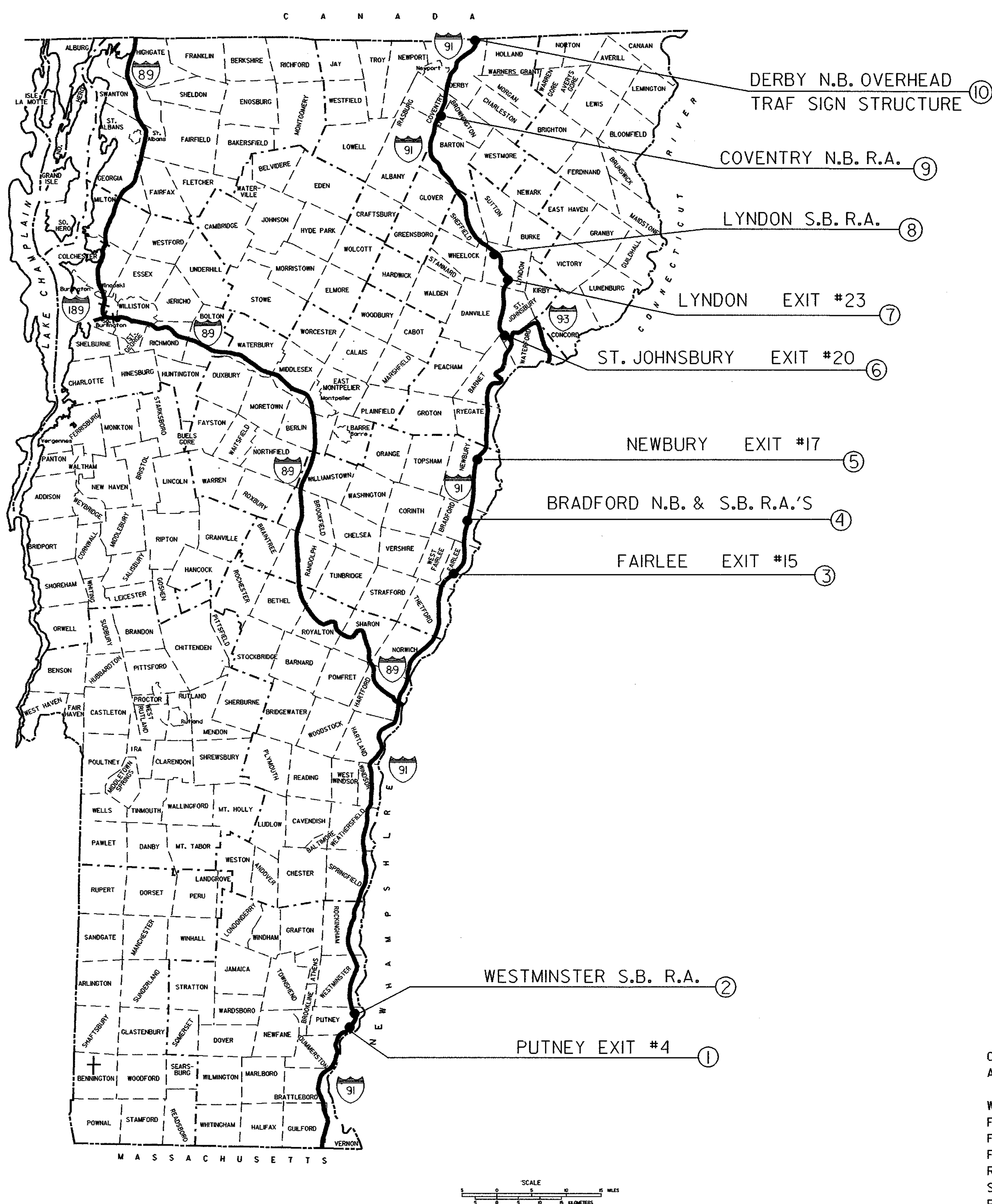
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT

INDEX OF SHEETS



PROJECT DESCRIPTION

TOWN OF: PUTNEY, WESTMINSTER, FAIRLEE, BRADFORD, NEWBURY, ST. JOHNSBURY, LYNDON COVENTRY AND DERBY.

COUNTIES OF: WINDHAM, ORANGE, CALEDONIA, & ORLEANS

THE PROJECT CONSISTS OF THE INSTALLATION OF STREET LIGHTING AT THE PUTNEY INTERCHANGE ON I-91 AND THE UPGRADING OF EXISTING STREET LIGHTING AT OTHER AREAS ON I-91. REMOVE AND RESET OVERHEAD TRAFFIC SIGN STRUCTURE IN DERBY ON I-91.

PROJECT LOCATIONS FOR CONTRACT

1. PUTNEY, INTERCHANGE #4, I-91
2. WESTMINSTER, S.B. REST AREA, I-91
3. FAIRLEE, INTERCHANGE #15, I-91
4. BRADFORD, N.B. & S.B. REST AREAS, I-91
5. NEWBURY, INTERCHANGE #17, I-91
6. ST. JOHNSBURY, INTERCHANGE #20, I-91
7. LYNDON, INTERCHANGE #23, I-91
8. LYNDON, S.B. REST AREA, I-91
9. COVENTRY, N.B. REST AREA, I-91
10. DERBY, N.B. OVERHEAD SIGN STRUCTURE, I-91

N

RECORD PLANS

CONTRACTOR: DON WESTON EXCAVATING WILLISTON, VT

RESIDENT ENGINEER: REED, FRED

CONSTRUCTION BEGAN: MARCH 4, 1998

CONSTRUCTION COMPLETED: JUNE 12, 1998

RECORD PLANS BY: CADD

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

BY [signature] FOR Fred Reed RESIDENT ENGINEER

DATE 12/20/00

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found on microfilm in Central Files.

Archived On CADD

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER.

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

APPROVED [signature] DATE 8/19/97
DIRECTOR OF ENGINEERING

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED [signature] DATE 8/21/97
for the DIVISION ADMINISTRATOR

PROJECT NO.
STATEWIDE IM LITE (6)

SHEET 1 OF 37 SHEETS

RDMAP 1

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

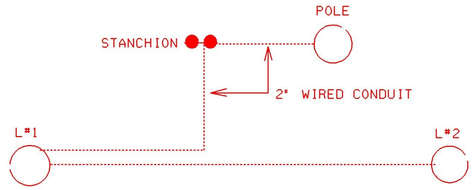
GENERAL PROJECT	PUTNEY SITE 1	WESTMINSTER SITE 2	FAIRLEE SITE 3	BRADFORD SB SITE 4A	BRADFORD NB SITE 4B	NEWBURY SITE 5	ST. JOHNSBURY SITE 6	LYNDON EXIT SITE 7	LYNDON R.A. SITE 8	COVENTRY SITE 9	DERBY SITE 10	EROSION CONTROL	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
			~~20~~ 9.5										20	CY	COMMON EXCAVATION	203.15	EST.
			~~20~~ 0										20	CY	SOLID ROCK EXCAVATION (MOD.)	203.16	EST.
	~~10~~ 0		~~5~~ 15.2	~~10~~ 30.4	~~20~~ 30.4	~~30~~ 45.6	~~10~~ 0		~~10~~ 30.6	~~10~~ 30.6			105	CY	GRANULAR BORROW (TRUCK MEASUREMENT)	203.32	EST.
~~20~~ 0													20	CY	TRENCH EXCAVATION OF EARTH	204.20	EST.
											~~50~~ 55.1		50	CY	STRUCTURE EXCAVATION	204.25	4
											~~35~~ 38.1		35	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	3
			~~20~~ 0										20	CY	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	301.26	EST.
											~~21~~ 20.52		21	CY	CONCRETE, CLASS B	501.25	-
											~~700~~ 686		700	LB	EPOXY COATED REINFORCING STEEL	507.17	15
											1 ✓		1	GAL	WATER REPELLENT	514.10	EST.
											~~9~~ 7		9	CY	REMOVAL OF CONCRETE OR MASONRY	529.25	0.4
												~~1~~ 0	1	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE 1 (NABI)	608.25	EST.
											~~1~~ 0		1	HR	TRUCK RENTAL (NABI)	608.37	EST.
			~~30~~ 16		18	~~20~~ 0	~~30~~ 0	~~30~~ 0	~~30~~ 0	~~30~~ 0			230	LF	REMOVING AND RESETTING CURB	616.40	EST.
			~~120~~ 0										120	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5''	618.10	EST.
~~50~~ 102.5													50	HR	UNIFORM TRAFFIC OFFICERS	630.10	EST.
~~300~~ 342													300	HR	FLAGGERS	630.15	EST.
1✓													1	LS	TESTING EQUIPMENT - CONCRETE	631.16	-
	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.05~~ 1.0	~~0.05~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0		1	LS	MOBILIZATION	635.10	-
	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.05~~ 1.0	~~0.05~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0	~~0.1~~ 1.0		1	LS	TRAFFIC CONTROL	641.10	-
		0.2✓		0.1✓	0.1✓				0.2✓	0.2✓	0.2✓		1	EA	PORTABLE ARROW BOARD	641.16	-
~~50~~ 0													50	LF	JACKING OR BORING WELDED STEEL PIPE(MOD)	643.20	EST.
												~~15~~ 26	15	LB	SEED	651.15	EST.
												~~100~~ 220	100	LB	FERTILIZER (10-20-10)	651.18	EST.
												~~0.5~~ 0.88	0.5	TON	AGRICULTURAL LIMESTONE	651.20	EST.
												~~0.5~~ 0.88	0.5	TON	HAY MULCH	651.25	EST.
												~~5~~ 0	5	EA	HAY BALES FOR EROSION CONTROL	651.26	EST.
												~~60~~ 106.5	60	CY	TOPSOIL	651.35	EST.
											3 ✓		3	EA	REMOVING SIGNS	675.50	-
											3 ✓		3	EA	ERECTING SALVAGED SIGNS	675.60	-
											1✓		1	EA	REMOVE & RESET TRAFFIC SIGN SUPPORT (MOD.)	677.25	-
			1✓			1✓	1✓	1✓					4	EA	FLASHING BEACON -GROUND MOUNTED (MOD.1)	678.16	-
	1✓												1	EA	FLASHING BEACON -GROUND MOUNTED (MOD.2)	678.16	-
	10✓		5	10	10	25	10	5 ✓	25	10			15	LF	ELECTRICAL CONDUIT (2'' PVC)	678.21	-
	~~190~~												190	LF	WIRED CONDUIT (2'' PVC)	678.23	8
		~~740~~	1600	820	1410	1680	1350	1300	1840	2560			13300	LF	WIRED CONDUIT (MOD.) (2'' PVC)	678.23	-
	~~40~~ 0		~~40~~			~~40~~	~~40~~	~~40~~					200	LF	WIRED CONDUIT (2 1/2'' PVC)	678.23	-
		200	~~80~~	~~200~~	~~320~~	~~360~~	~~250~~	~~350~~	~~560~~	~~480~~			2600	LF	ELECTRICAL WIRING	678.24	-
			3		1	2	1✓		2	2			1	EA	PULL BOX - STANDARD	678.25	-
			~~2~~ 6	2✓	~~1~~	~~6~~ 4			~~5~~ 0	~~3~~ 2			22	EA	PULL BOX - STANDARD (MOD.)	678.25	-
					~~1~~ 0	2		1	1✓				2	EA	JUNCTION BOX	678.26	-
			~~200~~ 565			~~235~~ 209	~~155~~ 223	~~80~~ 103	~~110~~ 125	~~90~~ 115			870	LF	ELECTRICAL CONDUIT SLEEVE (6'' PVC)	678.30	-
	2✓												2	EA	LIGHT POLE BASE	679.21	-
		1	2✓	5 ✓	8 ✓	~~9~~ 10	~~4~~ 5	~~5~~ 7	14✓	12✓			59	EA	LIGHT POLE BASE (MOD. 1)	679.21	-
		1✓	~~1~~ 2	2	5	~~5~~ 7	~~3~~ 4	~~3~~ 5	~~2~~ 5	~~1~~ 4			16	EA	LIGHT POLE BASE (MOD. 2)	679.21	-
			7✓	1✓	3	10✓	5✓	7✓	~~4~~ 6				34	EA	LIGHT POLE BASE (MOD. 3)	679.21	-
	2✓			3✓	4✓	8✓	~~4~~ 1		1✓	2✓			24	EA	BREAKAWAY FEATURE FOR LIGHT POLE	679.23	-
~~10~~ 0							3						10	EA	BREAKAWAY FEATURE FOR LIGHT POLE (MOD.)	679.23	EST.
			2✓	5 ✓	8 ✓	~~9~~ 10	5✓	7✓	14✓	12✓			62	EA	REMOVE & RESETTING LIGHT POLE	679.25	-
		2✓		2 ✓						2 ✓			6	EA	REMOVE & RESETTING LIGHT POLE (MOD.)	679.25	-
	2✓												2	EA	LIGHT POLE	679.45	-
	2✓												2	EA	BRACKET ARM	679.47	-
	2✓	5	7✓		3✓	10✓	5✓	10✓	2✓				39	EA	LUMINAIRE	679.50	-
		~~5~~ 0		7✓	9✓				12✓	17✓			50	EA	LUMINAIRE (MOD.)	679.50	-
			21										0	TON	BITUMINOUS CONCRETE SIDEWALK	618.15	
			1690	843	1303	2104	1347	1462	1850	2578							

DETAILED SUMMARY OF QUANTITIES

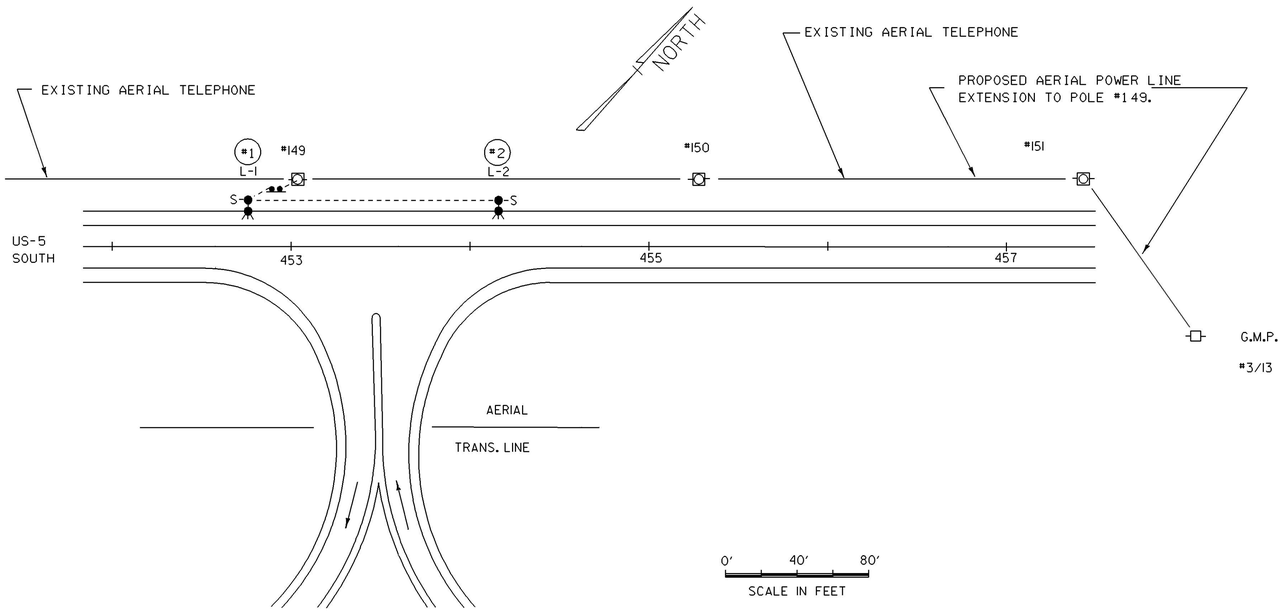
QUANTITIES	UNIT	ITEMS

ARCHIVED ON CADD

PROJECT: STATEWIDE	PROJECT NO.: IM LITE (6)
DESIGN FILE NAME: /traf/94a290/ta290.dgn	
IPARM FILE NAME: ta290q.i	PLOT DATE: 05-JUL-2001
SURVEYED BY:	SURVEY DATE:
SQUAD LEADER: ABK	DRAWN BY: E. FONTANA
	SHEET: 2 OF 37



STREET LIGHTING LOCATIONS									
	POLE NO.	LOCATION OFF-SET	LENGTH OF POLE	ARM	WALL THICK	BREAK-AWAY	LUMINAIRE WATTS TYPE	MOUNT HEIGHT	CONC. BASE	REMARKS
√	1	452+75 +26′	26′	6′	.188	T-BASE	150 W HPS	30′	30′′X6′	ALL NEW INSTALLATION
√	2	454+15 +26′	26′	6′	.188	T-BASE	150 W HPS	30′	30′′X6′	ALL NEW INSTALLATION



THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK AT THIS LOCATION

1. PERFORM AN INSULATION TEST ON ALL CONDUCTORS EXCEPT THE GROUND CONDUCTOR (INCLUDING NEUTRAL, DISCONNECT FROM GROUND BEFORE TESTING). PERFORM A RESISTANCE TO GROUND TEST AT SPECIFIED GROUNDS, SEE VERMONT STANDARD SPECIFICATIONS 679.08. FURNISH THE RESIDENT ENGINEER THE READINGS OBTAINED FROM THE ABOVE TESTS. SEE SHEET #12 FOR ADDITIONAL INFORMATION ON INSULATION TEST.

2. INSTALL TWO NEW CONCRETE LIGHT POLE BASES WITH STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS (FLAT AND LOCK), TWO ALUMINUM POLES, LUMINAIRE ARMS, LUMINAIRES, BREAKAWAY FEATURES, (TRANSFORMER BASES), WIRING, WATERPROOF DISCONNECT KITS AND CONDUIT SWEEPS. (SEE SHEET #12).

2A. CONCRETE BASE ELEVATION TO BE EQUAL TO EDGE OF SHOULDER ELEVATION. SEE TYPICAL BREAKAWAY INSTALLATION DETAIL ON SHEET 12

3. INSTALL METAL TAGS TO THE LIGHT POLES WITH THE INFORMATION AS NOTED AND DETAILED ON THE PLANS (SEE SHEET 12).

4. INSTALL (OR PROVIDE TO GMP) POLE RISER CONDUIT, WEATHERHEAD OR CONDULATOR AND ALL NECESSARY WIRING AND HARDWARE ON POLE #149.

5. INSTALL STANCHION WITH DISCONNECT ONLY (NO METER).

FLASHING BEACON (MOD 2) √

STANCHION NEAR GMP #149

ELECTRICAL CONDUIT (2 ′′ PVC) √

SWEEP AT POLE #1
SWEEP AT POLE #2

WIRED CONDUIT (~~2 1/2′′~~ 2" PVC, WIRING AS REQUIRED BY POWER COMPANY)

GMP #149 TO STANCHION

WIRED CONDUIT (2′′ PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND) √

STANCHION TO POLE #1
POLE #1 TO POLE #2

POWER SOURCE NOTE

GREEN MOUNTAIN POWER CORP. TO PROVIDE A 120 / 240 VOLT, SINGLE PHASE UNMETERED POWER SUPPLY AT POLE #149.

THE CONTACT PERSON FOR GREEN MOUNTAIN POWER CORP. IN BELLOWS FALLS IS DAVID COMSTOCK, FIELD SERVICES ASSOCIATE, PHONE (802) 463-3120.

MONTHLY CHARGES FOR THE STREET LIGHTS SHALL BE BILLED TO THE, DISTRICT TRANSPORTATION ADMINISTRATOR, ALLAN REMICK, PO BOX 8236, NORTH BRATTLEBORO, VT. 05304.

LEGEND

- NEW LIGHT POLE W/ NEW LUMINAIRE
- EXIST. UTILITY POLE
- EXIST. UTILITY POLE, COMBINATION
- EXIST. TELEPHONE POLE
- NEW UNDERGROUND CIRCUITRY
- SWEEP WITH PLUG
- NEW STANCHION

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/traf/94o290/to290.dgn/to2903.i
PLOTTED: 05-JUL-2001

SITE 1
PUTNEY, EXIT #4, I-91

PREPARED BY RPD DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

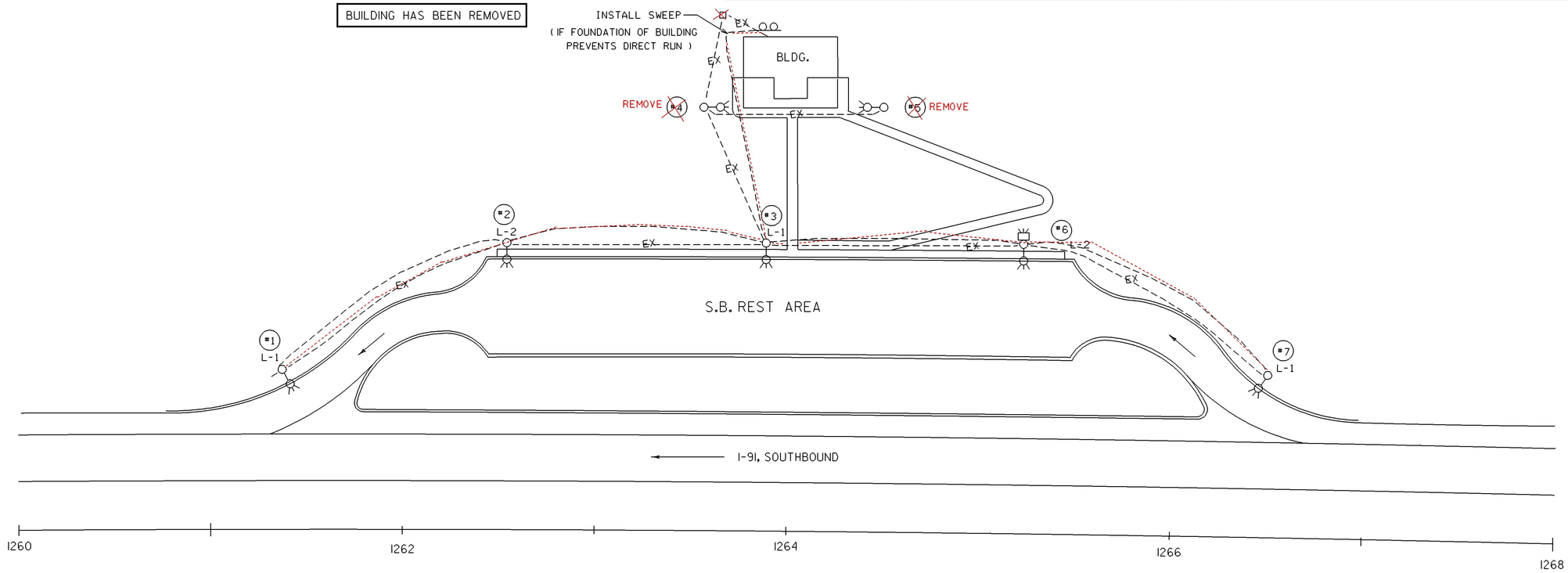
STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 3 OF 37 SHEETS

WIRED CONDUIT (MOD) (2" PVC, WITH
3- #8 COPPER AND I- #6 COPPER GROUND)
STANCHION TO POLE #3
POLE #3 TO POLE #2
POLE #2 TO POLE #1
POLE #3 TO POLE #6
POLE #6 TO POLE #7

STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE 679.23	LIGHT POLE TAG 679.21 MOD 3	HAND HOLE COVER 679.21 MOD 2	NEW LAMP REQ'D 679.50 MOD	REMOVE/ RESET POLE 679.25	ELECT WIRING 678.24	NEW LUMINAIRE REQ'D 679.50	REMOVE POLE & BASE 679.25 MOD	EXIST. BREAK-AWAY	EXIST. LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE 679.21 MOD 1	REMARKS
1				X		X	X		NONE	150 W. HPS	30		TRAFFIC COUNTER STAND & LOOP LOCATED NEARBY IF DAMAGED, CONTRACTOR TO REPAIR AT HIS EXPENSE
2				X		X	X		NONE	250 W. HPS	30		
3			X √	X		X	X		NONE	250 W. HPS	30	X	
4								X √	NONE	150 W. HPS	30		
5								X √	NONE	150 W. HPS	30		
6				X		X	X		NONE	250 W. HPS	30		REMOVE POLE TOP LUMINAIRE. COST SUBSIDIARY TO OTHER ITEMS.
7				X		X	X		NONE	150 W. HPS	30		



LEGEND

- EXIST. LIGHT POLE AND LUMINAIRE
- EXIST. PULL BOX
- EXIST. UNDERGROUND CIRCUITRY
- NEW CIRCUITRY
- EXISTING STANCHION
- POLE TOP LUMINAIRE

0 30 60
SCALE IN FEET

ARCHIVED ON CADD

/traf/94o290/to290.dgn/to2904J
PLOTTED: 05-JUL-2001

SITE 2
WESTMINSTER, SB REST AREA, I-91

PREPARED BY RPD DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 4 OF 37 SHEETS

LEGEND

- EXIST. LIGHT POLE W/ NEW LUMINAIRE
- EXIST. UTILITY POLE
- EXIST. PULL BOX
- —EX— POSSIBLE UNDERGROUND CIRCUITRY
- — — — NEW CIRCUITRY
- ELECTRICAL CONDUIT SLEEVE
- NEW STANCHION

NOTES:

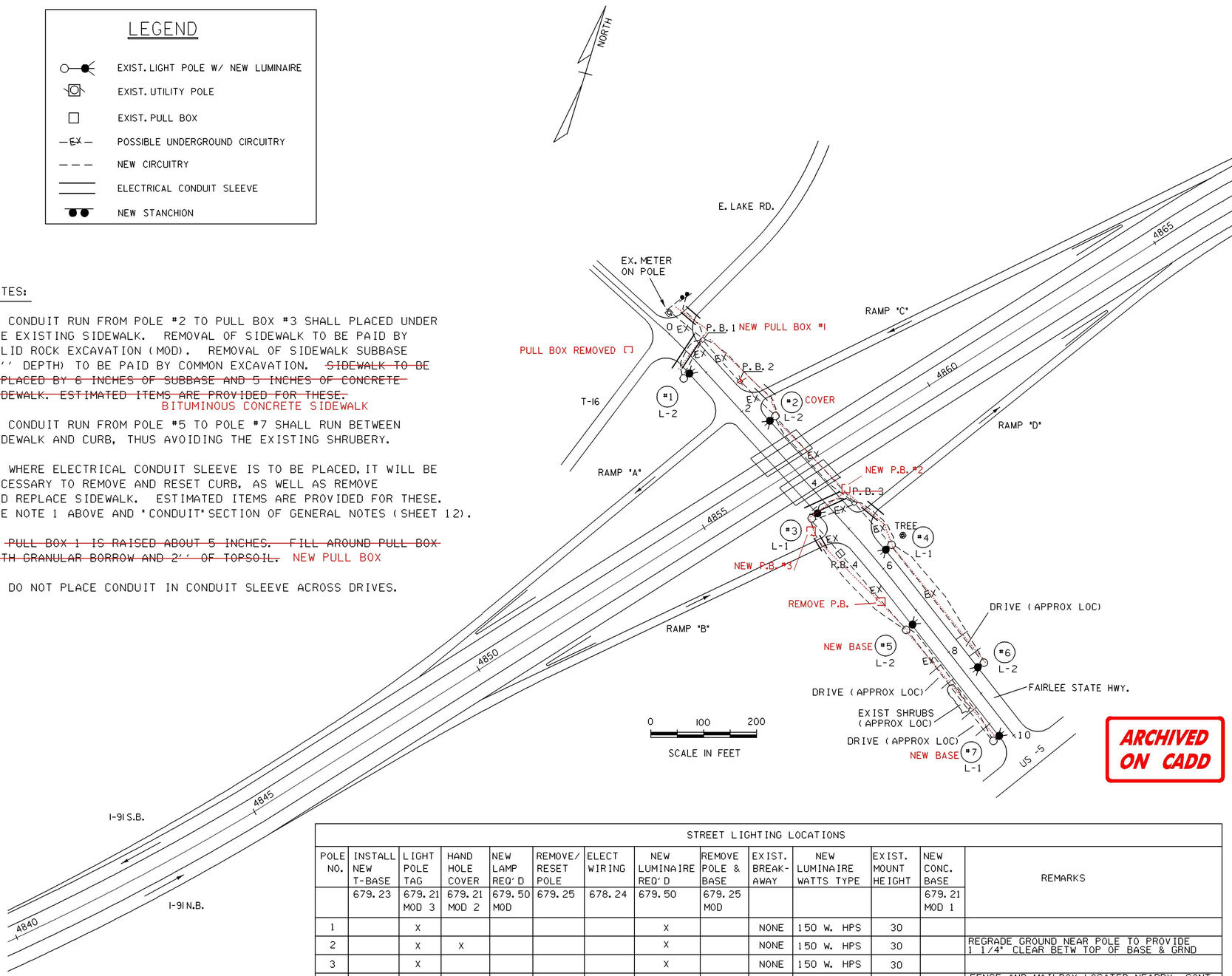
1. CONDUIT RUN FROM POLE #2 TO PULL BOX #3 SHALL PLACED UNDER THE EXISTING SIDEWALK. REMOVAL OF SIDEWALK TO BE PAID BY SOLID ROCK EXCAVATION (MOD). REMOVAL OF SIDEWALK SUBBASE (6'' DEPTH) TO BE PAID BY COMMON EXCAVATION. ~~SIDEWALK TO BE REPLACED BY 6 INCHES OF SUBBASE AND 5 INCHES OF CONCRETE SIDEWALK. ESTIMATED ITEMS ARE PROVIDED FOR THESE.~~ BITUMINOUS CONCRETE SIDEWALK

2. CONDUIT RUN FROM POLE #5 TO POLE #7 SHALL RUN BETWEEN SIDEWALK AND CURB, THUS AVOIDING THE EXISTING SHRUBERY.

3. WHERE ELECTRICAL CONDUIT SLEEVE IS TO BE PLACED, IT WILL BE NECESSARY TO REMOVE AND RESET CURB, AS WELL AS REMOVE AND REPLACE SIDEWALK. ESTIMATED ITEMS ARE PROVIDED FOR THESE. SEE NOTE 1 ABOVE AND "CONDUIT" SECTION OF GENERAL NOTES (SHEET 12).

4. ~~PULL BOX 1 IS RAISED ABOUT 5 INCHES. FILL AROUND PULL BOX WITH GRANULAR BORROW AND 2'' OF TOPSOIL.~~ NEW PULL BOX

5. DO NOT PLACE CONDUIT IN CONDUIT SLEEVE ACROSS DRIVES.



ARCHIVED ON CADD

FLASHING BEACON (MOD 1) ✓

STANCHION NEAR POWER POLE ✓

WIRED CONDUIT(~~2 1/2''~~ 2" PVC, WIRING AS REQUIRED BY POWER COMPANY)

POWER POLE TO STANCHION ✓

WIRED CONDUIT (MOD) (2" PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND)

- STANCHION TO PULL BOX 1
- PULL BOX 1 TO POLE #1
- PULL BOX 1 TO POLE #2
- POLE #2 TO PULL BOX 3
- PULL BOX 3 TO POLE #4
- POLE #4 TO POLE #6
- PULL BOX 3 TO POLE #3
- POLE #3 TO POLE #5
- POLE #5 TO POLE #7

ELECTRICAL CONDUIT SLEEVE (6" PVC)

- ACROSS EAST LAKE ROAD (METER TO PULL BOX 1)
- ACROSS FAIRLEE STATE HIGHWAY (PULL BOX 1 TO POLE #1)
- ACROSS RAMP C (PULL BOX 1 TO POLE #2)
- ACROSS FAIRLEE STATE HIGHWAY (PULL BOX 3 TO POLE #3)
- ACROSS RAMP D (PULL BOX 3 TO POLE #4)
- ACROSS RAMP B (POLE #3 TO POLE #5)
- ACROSS HARDWARE DRIVE (POLE #4 TO #6)
- ACROSS GAS STATION DRIVE (POLE #5 TO #7)
- ACROSS GAS STATION DRIVE (POLE #5 TO #7)

COMMON EXCAVATION

SOLID ROCK EXCAVATION (MOD)

~~SUBBASE OF CRUSHED GRAVEL~~

~~PORTLAND CEMENT CONCRETE SIDEWALK~~ BIT. CONC. SIDEWALK

1. SIDEWALK REPLACEMENT FOR CUNDUIT RUN NEAR ABUTMENT
2. ~~SIDEWALK REPLACEMENT FOR PLACEMENT OF SLEEVES~~

REMOVE AND RESET CURB

TO BE USED WITH ELECTRICAL CONDUIT SLEEVE, AS REQD

PULL BOX (MOD) - REMOVAL

- PULL BOX 2
- PULL BOX 4
- PULL BOX # 1
- PULL BOX # 3
- PULL BOX 0+000 RT
- PULL BOX 6+75 RT

STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE	LIGHT POLE TAG	HAND HOLE COVER	NEW LAMP REQ'D	REMOVE/ RESET POLE	ELECT WIRING	NEW LUMINAIRE REQ'D	REMOVE POLE & BASE	EXIST. BREAK-AWAY	NEW LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE	REMARKS
	679.23	679.21 MOD 3	679.21 MOD 2	679.50 MOD	679.25	678.24	679.50	679.25 MOD				679.21 MOD 1	
1		X					X		NONE	150 W. HPS	30		
2		X	X				X		NONE	150 W. HPS	30		REGRADE GROUND NEAR POLE TO PROVIDE 1 1/4" CLEAR BETW TOP OF BASE & GRND
3		X					X		NONE	150 W. HPS	30		
4		X					X		NONE	150 W. HPS	30		FENCE AND MAILBOX LOCATED NEARBY. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN EXP.
5		X			X	X	X		NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
6		X					X		NONE	150 W. HPS	30		
7		X			X	X	X		NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 10" HIGHER THAN EXISTING

SITE 3
FAIRLEE, EXIT # 15, I-91

PREPARED BY R.P.D. DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.
STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 5 OF 37 SHEETS

/trof/94o290/to290.dgn/to2905.l
PLOTTED:05-JUL-2001

S.B. REST AREA — STREET LIGHTING LOCATIONS

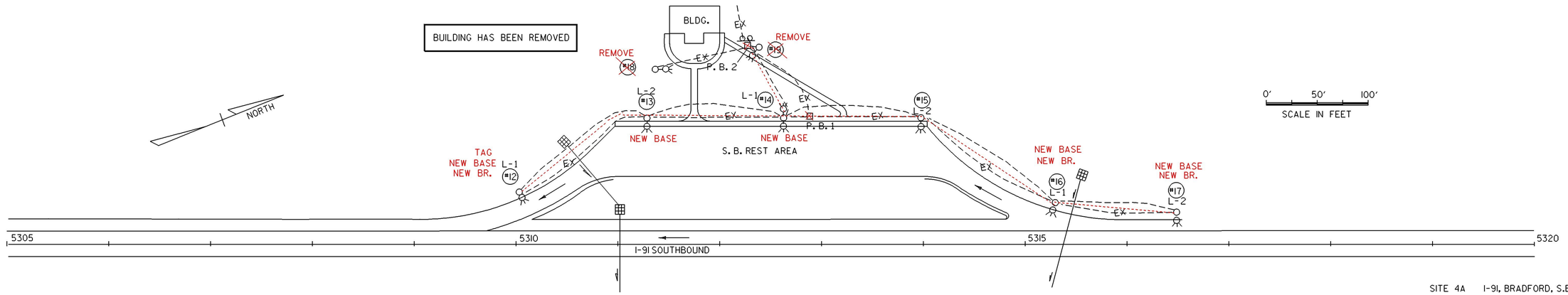
POLE NO.	INSTALL NEW T-BASE	LIGHT POLE TAG	HAND HOLE COVER	NEW LAMP REQ'D	REMOVE/ RESET POLE	ELECT WIRING	NEW LUMINAIRE REQ'D	REMOVE POLE & BASE	EXIST. BREAK-AWAY	EXIST. LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE	REMARKS
	679.23	679.21 MOD 3	679.21 MOD 2	679.50 MOD	679.25	678.24	679.50	679.25 MOD				679.21 MOD 1	
12	X √	X		X √	X √	X √			COUP.	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 14' HIGHER THAN EXISTING. TRAFFIC COUNT STAND & LOOP LOCATED NEARBY, IF DAMAGED CONTRACTOR TO REPAIR AT HIS EXPENSE
13				X √	X √	X √			NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6' HIGHER THAN EXISTING
14				2 √	X √	X √			NONE	2@ 150WHPS	30	X √	NEW BASE ELEV. TO BE APPROX. 10' HIGHER THAN EXISTING
15				X √		X			NONE	150 W. HPS	30		
16	X √			X √	X √	X √			COUP.	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 18' HIGHER THAN EXISTING
17	X √			X √	X √	X √			COUP	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 8' HIGHER THAN EXISTING
18								X √	NONE	150 W. HPS	30		
19								X √	NONE	150 W. HPS	30		

PULL BOX (MOD) - REMOVE

PULL BOX 1
PULL BOX 2

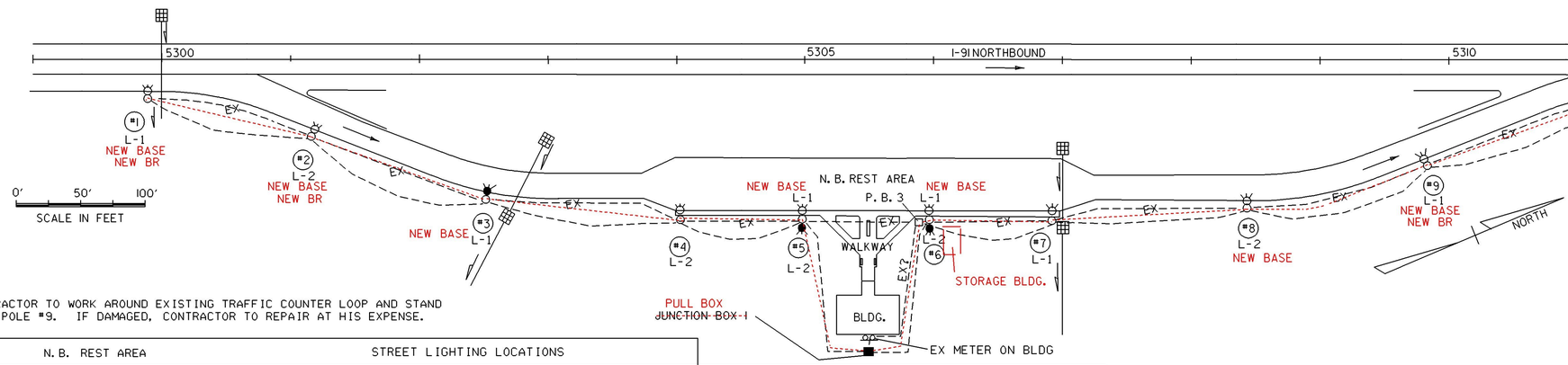
WIRED CONDUIT (MOD) (2" PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND)

STANCHION TO POLE #14
POLE #14 TO POLE #15
POLE #15 TO POLE #16
POLE #16 TO POLE #17
POLE #14 TO POLE #13
POLE #13 TO POLE #12



SITE 4A I-91, BRADFORD, S.B. REST AREA

SITE 4B I-91, BRADFORD, N.B. REST AREA



NOTES

1. CONTRACTOR TO WORK AROUND EXISTING TRAFFIC COUNTER LOOP AND STAND NEAR POLE #9. IF DAMAGED, CONTRACTOR TO REPAIR AT HIS EXPENSE.

N.B. REST AREA — STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE	LIGHT POLE TAG	HAND HOLE COVER	NEW LAMP REQ'D	REMOVE/ RESET POLE	ELECT WIRING	NEW LUMINAIRE REQ'D	REMOVE POLE & BASE	EXIST. BREAK-AWAY	EXIST. LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE	REMARKS
	679.23	679.21 MOD 3	679.21 MOD 2	679.50 MOD	679.25	678.24	679.50	679.25 MOD				679.21 MOD 1	
1	X √			X √	X	X			COUP	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 18' HIGHER THAN EXISTING
2	X √			X √	X	X			COUP	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 10' HIGHER THAN EXISTING
3					X	X	X √		NONE	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6' HIGHER THAN EXISTING. INSTALL NEW 150 HPS LUMINAIRE.
4				X √		X			NONE	150 W. HPS	30		
5				X(FRNT) √	X	X	X (BACK) √		NONE	2@ 150WHPS	30	X √	NEW BASE TO BE POURED 2 FT BEHIND EXIST (TOWARD BLDG) INSTALL NEW 250 WATT LUMINAIRE ON BUILDING SIDE.
6				X(FRNT) √	X	X	X (BACK) √		NONE	2@ 150WHPS	30	X √	NEW BASE TO BE POURED 2 FT BEHIND EXIST (TOWARD BLDG) INSTALL NEW 250 WATT LUMINAIRE ON BUILDING SIDE.
7				X √		X			NONE	150 W. HPS	30		
8				X √	X	X			NONE	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 18' HIGHER THAN EXISTING
9	X √			X √	X	X			NONE	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 4' HIGHER THAN EXISTING. SEE NOTE 3 OF TYP TOPSOIL AND FILL DETAIL ON SHT 12.
10	X √			X √	X	X			COUP	100 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 15' HIGHER THAN EXISTING. SEE NOTE 3 OF TYP TOPSOIL AND FILL DETAIL ON SHT 12.

JUNCTION BOX

~~JUNCTION BOX 1~~

~~PULL BOX (MOD) - REMOVAL~~

~~PULL BOX 3~~

WIRED CONDUIT (MOD) (2" PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND)

BREAKER BOX IN BLDG TO PB. #1
~~METER ON BLDG TO JUNCTION BOX 1~~
PB. ~~JUNCTION BOX~~ 1 TO ~~POLE #6~~ STORAGE BLDG. TO POLE #6
POLE #6 TO POLE #7
POLE #7 TO POLE #8
POLE #8 TO POLE #9
POLE #9 TO POLE #10
PB. ~~JUNCTION BOX 1~~ TO POLE #5
POLE #5 TO POLE #4
POLE #4 TO POLE #3
POLE #3 TO POLE #2
POLE #2 TO POLE #1

LEGEND

- EXIST. LIGHT POLE AND LUMINAIRE
- EXIST. LIGHT POLE WITH NEW LUMINAIRE
- EXIST. PULL BOX
- EXIST. UNDERGROUND CIRCUITRY
- NEW CIRCUITRY
- EXISTING DRAINAGE
- EXISTING STANCHION
- NEW JUNCTION BOX

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/traf/94a290/ta290.dgn/ta2906.l
PLOTTED:05-JUL-2001

BRADFORD, N.B. & S.B. REST AREA, I-91

PREPARED BY RPD DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 6 OF 37 SHEETS

FLASHING BEACON (MOD 1)

STANCHION NEAR POWER POLE

WIRED CONDUIT (2 1/2 '' PVC, WIRING AS REQUIRED BY POWER COMPANY)

POWER SOURCE (SOUTH) TO
NEW STANCHION (SOUTH)

WIRED CONDUIT (MOD) (2" PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND)

NEW STANCHION (SOUTH) TO ~~PULL BOX 1~~
~~PULL BOX 1~~ TO POLE #9
STANCHION ~~PULL BOX 1~~ TO POLE #8
POLE #8 TO POLE #7
POLE #9 ~~POLE #7~~ TO POLE #10
POLE #7 TO POLE #6
STANCHION (NORTH) TO POLE #2
STANCHION ~~POLE #2~~ TO ~~POLE #1~~ PB #1
PB #1 ~~POLE #2~~ TO POLE #4
POLE #2 TO POLE #3
POLE #3 TO ~~POLE #5~~ PB
PB #1 TO POLE #1
POLE #2 TO POLE #5
S. B. I-91

ELECTRICAL CONDUIT SLEEVE (6" PVC)

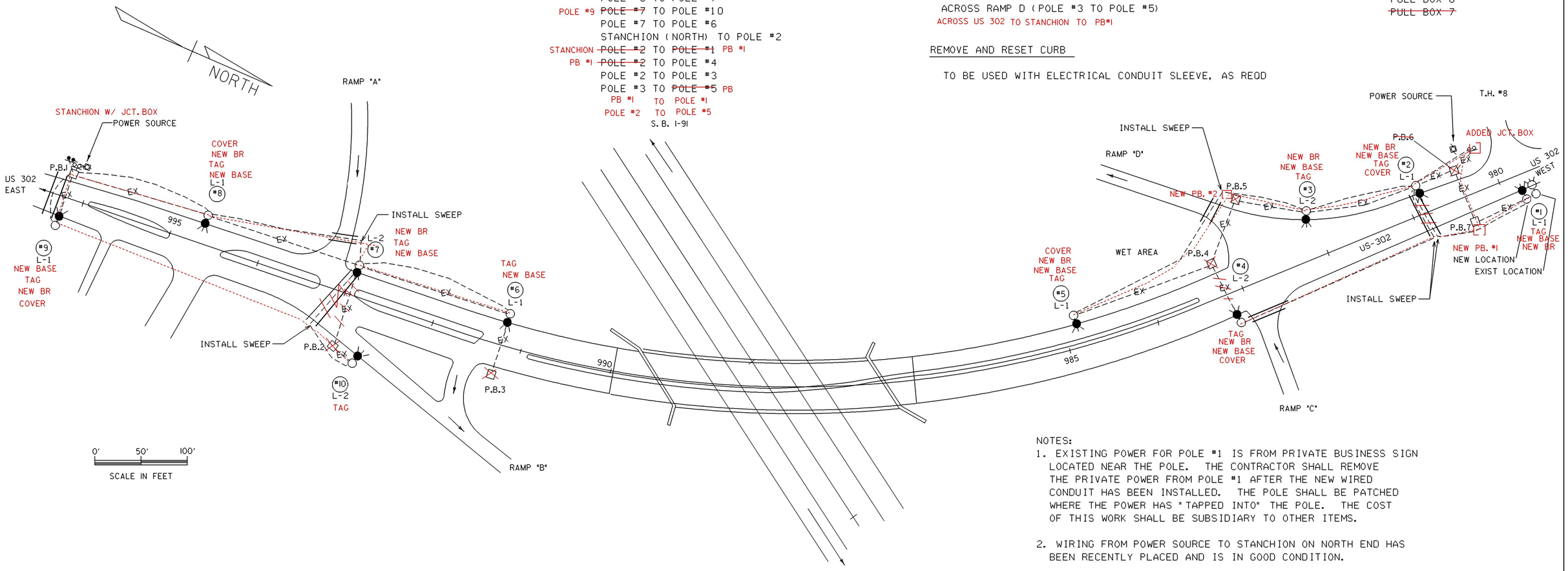
ACROSS US 302 (~~PULL BOX 1~~ STANCHION TO POLE #9)
ACROSS RAMP A (POLE #8 TO POLE #7)
~~ACROSS US 302 (POLE #7 TO POLE #10)~~
~~ACROSS US 302 (POLE #2 TO POLE #1 AND POLE #2 TO POLE #4)~~
ACROSS RAMP C (POLE #2 TO POLE #4)
ACROSS RAMP D (POLE #3 TO POLE #5)
ACROSS US 302 TO STANCHION TO PB#1

PULL BOX (MOD) - REMOVAL

~~PULL BOX 2~~
√ PULL BOX 3
√ PULL BOX 4
√ PULL BOX 5
√ PULL BOX 6
~~PULL BOX 7~~

REMOVE AND RESET CURB

TO BE USED WITH ELECTRICAL CONDUIT SLEEVE, AS REQD



NOTES:

1. EXISTING POWER FOR POLE #1 IS FROM PRIVATE BUSINESS SIGN LOCATED NEAR THE POLE. THE CONTRACTOR SHALL REMOVE THE PRIVATE POWER FROM POLE #1 AFTER THE NEW WIRED CONDUIT HAS BEEN INSTALLED. THE POLE SHALL BE PATCHED WHERE THE POWER HAS "TAPPED INTO" THE POLE. THE COST OF THIS WORK SHALL BE SUBSIDIARY TO OTHER ITEMS.

2. WIRING FROM POWER SOURCE TO STANCHION ON NORTH END HAS BEEN RECENTLY PLACED AND IS IN GOOD CONDITION.

3. ROUTING OF CONDUIT SHOULD AVOID THE WET AREA, NEAR POLE #5, IF POSSIBLE.

STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE 679.23	LIGHT POLE TAG 679.21 MOD 3	HAND HOLE COVER 679.21 MOD 2	NEW LAMP REQ'D 679.50 MOD	REMOVE/ RESET POLE 679.25	ELECT WIRING 678.24	NEW LUMINAIRE REQ'D 679.50	REMOVE POLE & BASE 679.25 MOD	EXIST. BREAK-AWAY	NEW LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE 679.21 MOD 1	REMARKS
1	X √	X √			X √	X √	X √		COUP	150 W. HPS	30	X √	NEW BASE TO BE POURED 15 FT SOUTH (EAST) OF EXISTING.
2	X √	X √	X √		X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 10" HIGHER THAN EXISTING
3	X √	X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 8" HIGHER THAN EXISTING
4	X √	X √	X √		X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
5	X √	X √	X √		X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
6		X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
7	X √	X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
8	X √	X √	X √		X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
9	X √	X √	X √		X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
10		X √			X	X	X √		T-BASE	150 W. HPS	30	X	

LEGEND

- EXIST. LIGHT POLE AND LUMINAIRE
- EXIST. LIGHT POLE W/ NEW LUMINAIRE
- EXIST. PULL BOX
- —EX— EXIST. UNDERGROUND CIRCUITRY
- NEW CIRCUITRY
- EXIST. STANCHION
- NEW STANCHION
- EXIST. UTILITY POLE
- ELECTRICAL CONDUIT SLEEVE

ARCHIVED ON CADD

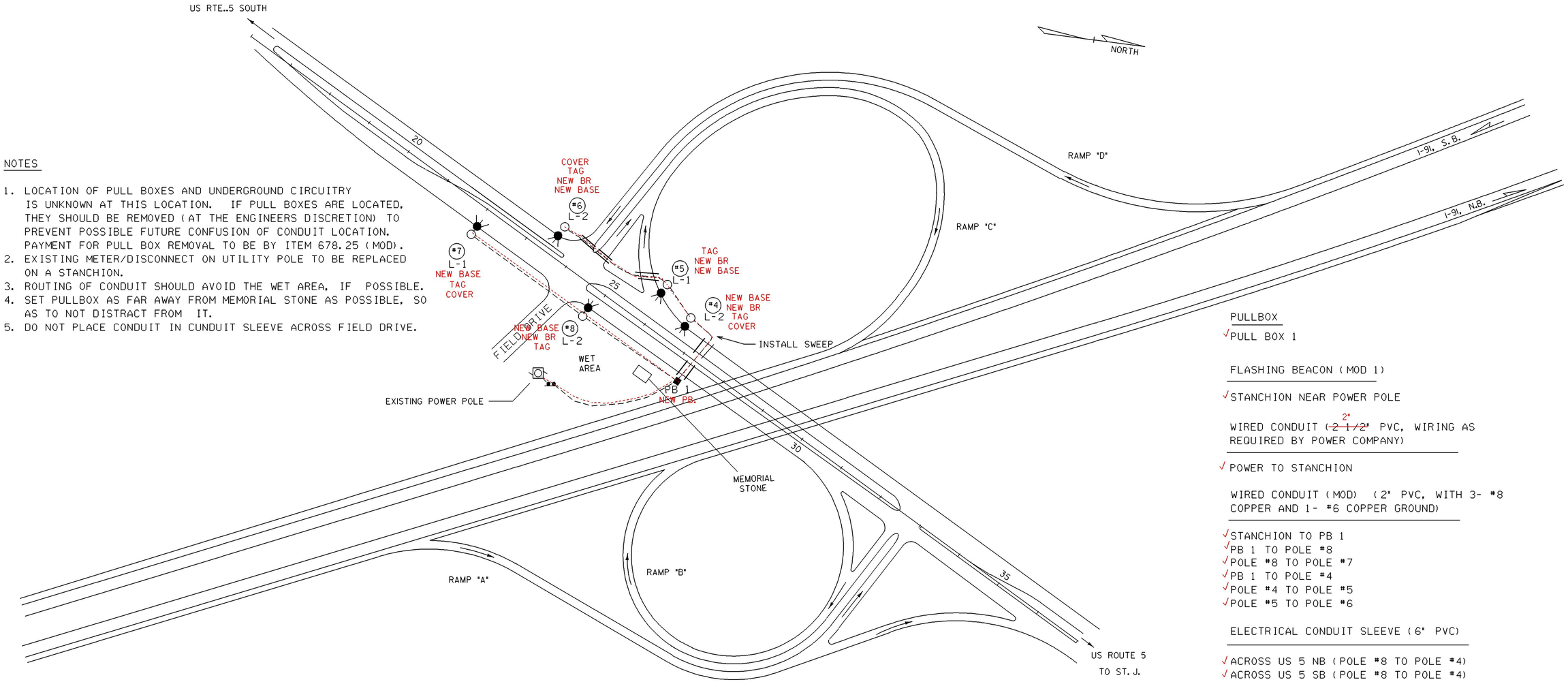
SITE 5
NEWBURY (WELLS RIVER), EXIT #17, I- 91

PREPARED BY R.P.D. DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 7 OF 37 SHEETS

/traf/94a290/ta290.dgn/ta2907J
PLOTTED: 05-JUL-2001



NOTES

1. LOCATION OF PULL BOXES AND UNDERGROUND CIRCUITRY IS UNKNOWN AT THIS LOCATION. IF PULL BOXES ARE LOCATED, THEY SHOULD BE REMOVED (AT THE ENGINEERS DISCRETION) TO PREVENT POSSIBLE FUTURE CONFUSION OF CONDUIT LOCATION. PAYMENT FOR PULL BOX REMOVAL TO BE BY ITEM 678.25 (MOD).
2. EXISTING METER/DISCONNECT ON UTILITY POLE TO BE REPLACED ON A STANCHION.
3. ROUTING OF CONDUIT SHOULD AVOID THE WET AREA, IF POSSIBLE.
4. SET PULLBOX AS FAR AWAY FROM MEMORIAL STONE AS POSSIBLE, SO AS TO NOT DISTRACT FROM IT.
5. DO NOT PLACE CONDUIT IN CUNDUIT SLEEVE ACROSS FIELD DRIVE.

PULLBOX

√PULL BOX 1

FLASHING BEACON (MOD 1)

√STANCHION NEAR POWER POLE

WIRED CONDUIT (~~2 1/2"~~ 2" PVC, WIRING AS REQUIRED BY POWER COMPANY)

√POWER TO STANCHION

WIRED CONDUIT (MOD) (2" PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND)

√STANCHION TO PB 1
√PB 1 TO POLE #8
√POLE #8 TO POLE #7
√PB 1 TO POLE #4
√POLE #4 TO POLE #5
√POLE #5 TO POLE #6

ELECTRICAL CONDUIT SLEEVE (6" PVC)

√ACROSS US 5 NB (POLE #8 TO POLE #4)
√ACROSS US 5 SB (POLE #8 TO POLE #4)
√ACROSS RAMP C (POLE #5 TO POLE #6) [2 LOCATIONS]
√ACROSS RAMP D (POLE #5 TO POLE #6)

REMOVE AND RESET CURB

TO BE USED WITH ELECTRICAL CONDUIT SLEEVE, AS REQD

0' 100' 200'

SCALE IN FEET

STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE	LIGHT POLE TAG	HAND HOLE COVER	NEW LAMP REQ'D	REMOVE/ RESET POLE	ELECT WIRING	NEW LUMINAIRE REQ'D	REMOVE POLE & BASE	EXIST. BREAK-AWAY	NEW LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE	REMARKS
	679.23	679.21 MOD 3	679.21 MOD 2	679.50 MOD	679.25	678.24	679.50	679.25 MOD				679.21 MOD 1	
4	X √	X √	X √		X √	X √	X √		COUP	150 W. HPS	40	X √	NEW BASE ELEVATION TO BE APPROX. 12" HIGHER THAN EXISTING
5	X √	X √			X √	X √	X √		COUP	150 W. HPS	40		REGRADE GROUND NEAR POLE TO PROVIDE 1 1/4 INCH CLEARANCE BETWEEN TOP OF BASE AND GROUND LEVEL
6	X √	X √	X √		X √	X √	X √		COUP	150 W. HPS	40	X √	NEW BASE ELEVATION TO BE APPROX. 6" HIGHER THAN EXISTING
7		X √	X √		X √	X √	X √		COUP	150 W. HPS	40	X √	REMOVE COUPLING. SET POLE DIRECTLY ON NEW BASE WITH NO BREAKAWAY FEATURE
8	X √	X √			X √	X √	X √		COUP	150 W. HPS	40	X √	NEW BASE ELEVATION TO BE APPROX. 8" HIGHER THAN EXISTING

LEGEND

- EXIST. LIGHT POLE W/ NEW LUMINAIRE
- EXIST. UTILITY POLE
- NEW CIRCUITRY
- NEW STANCHION
- ELECTRICAL CONDUIT SLEEVE
- NEW PULLBOX

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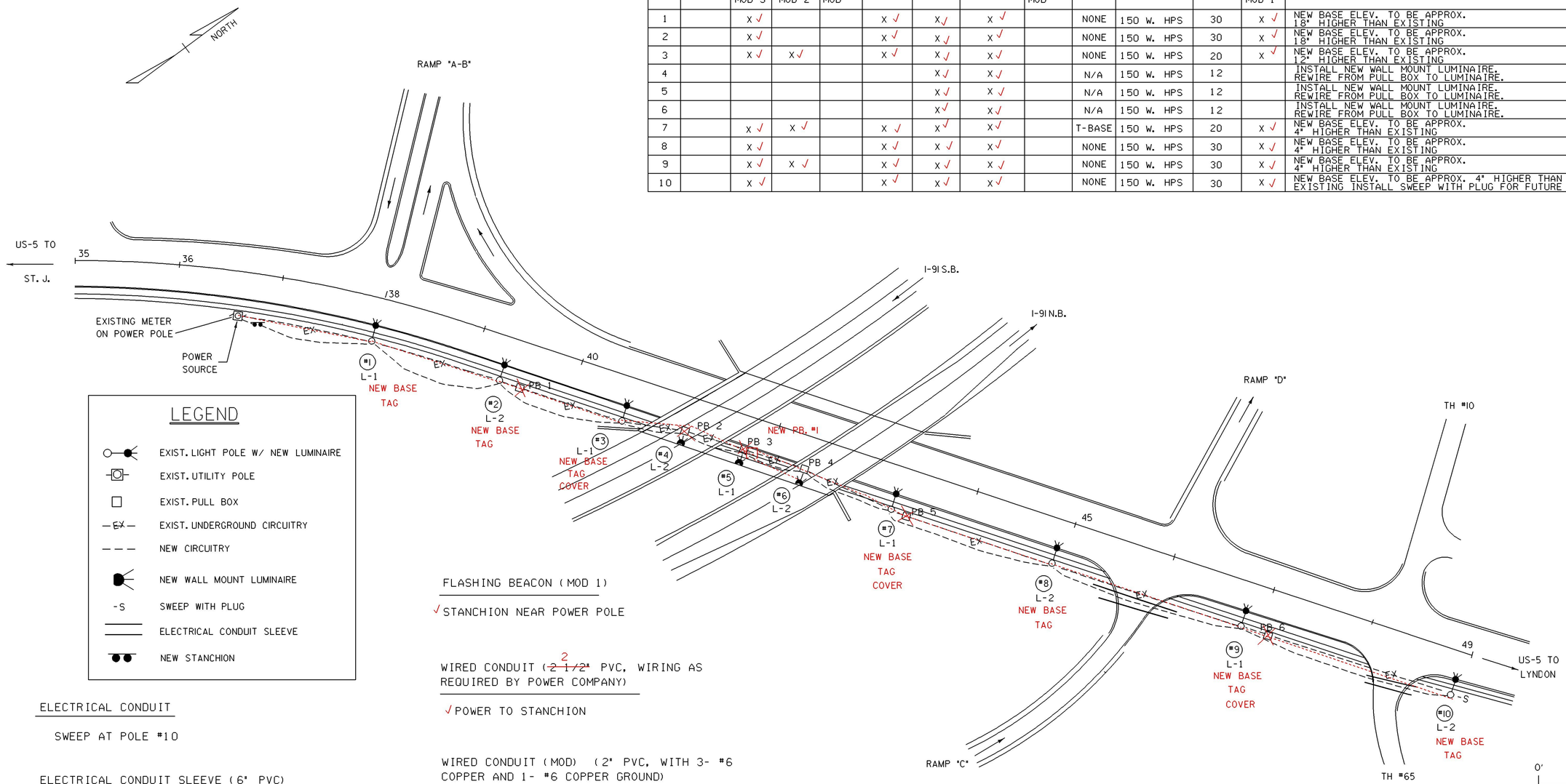
/trof/94a290/to290.dgn/to2908J
PLOTTED:05-JUL-2001

ST. JOHNSBURY- SOUTH, EXIT #20, I- 91

PREPARED BY RPD DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.
STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 8 OF 37 SHEETS

STREET LIGHTING LOCATIONS													
POLE NO.	INSTALL NEW T-BASE	LIGHT POLE TAG	HAND HOLE COVER	NEW LAMP REQ'D	REMOVE/ RESET POLE	ELECT WIRING	NEW LUMINAIRE REQ'D	REMOVE POLE & BASE	EXIST. BREAK-AWAY	NEW LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE	REMARKS
	679.23	679.21 MOD 3	679.21 MOD 2	679.50 MOD	679.25	678.24	679.50	679.25 MOD				679.21 MOD 1	
1		X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 18" HIGHER THAN EXISTING
2		X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 18" HIGHER THAN EXISTING
3		X √	X √		X √	X √	X √		NONE	150 W. HPS	20	X √	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
4						X √	X √		N/A	150 W. HPS	12		INSTALL NEW WALL MOUNT LUMINAIRE. REWIRE FROM PULL BOX TO LUMINAIRE.
5						X √	X √		N/A	150 W. HPS	12		INSTALL NEW WALL MOUNT LUMINAIRE. REWIRE FROM PULL BOX TO LUMINAIRE.
6						X √	X √		N/A	150 W. HPS	12		INSTALL NEW WALL MOUNT LUMINAIRE. REWIRE FROM PULL BOX TO LUMINAIRE.
7		X √	X √		X √	X √	X √		T-BASE	150 W. HPS	20	X √	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
8		X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
9		X √	X √		X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
10		X √			X √	X √	X √		NONE	150 W. HPS	30	X √	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING INSTALL SWEEP WITH PLUG FOR FUTURE USE.



LEGEND

- EXIST. LIGHT POLE W/ NEW LUMINAIRE
- EXIST. UTILITY POLE
- EXIST. PULL BOX
- —EX— EXIST. UNDERGROUND CIRCUITRY
- — — — NEW CIRCUITRY
- NEW WALL MOUNT LUMINAIRE
- -S SWEEP WITH PLUG
- ELECTRICAL CONDUIT SLEEVE
- NEW STANCHION

ELECTRICAL CONDUIT

SWEEP AT POLE #10

ELECTRICAL CONDUIT SLEEVE (6" PVC)

√ ACROSS RAMP C (POLE #8 TO POLE #9)
√ ACROSS TH #65 (POLE #9 TO POLE #10)

PULL BOX (MOD)

~~PULL BOX 1~~
~~PULL BOX 5~~
√ PULL BOX 6

REMOVE AND RESET CURB

TO BE USED WITH ELECTRICAL CONDUIT SLEEVE, AS REQD

FLASHING BEACON (MOD 1)

√ STANCHION NEAR POWER POLE

WIRED CONDUIT (~~2 1/2"~~ 2" PVC, WIRING AS REQUIRED BY POWER COMPANY)

√ POWER TO STANCHION

WIRED CONDUIT (MOD) (2" PVC, WITH 3- #6 COPPER AND 1- #6 COPPER GROUND)

√ STANCHION TO POLE #1
√ POLE #1 TO POLE #2
√ POLE #2 TO POLE #3
POLE #3 TO PULL BOX ~~2~~ 1
~~PULL BOX 2 TO PULL BOX 3~~
~~PULL BOX 3 TO PULL BOX 4~~
PULL BOX ~~4~~ 1 TO POLE #7
√ POLE #7 TO POLE #8
√ POLE #8 TO POLE #9
√ POLE #9 TO POLE #10
PB. #1 TO LIGHT #4
PB. #1 TO LIGHT #6
PB. #1 TO LIGHT #5

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NOTES

1. CARE MUST BE TAKEN TO PRESERVE VEGETATION AROUND POWER SOURCE WHEN STANCHION AND CONDUIT ARE PLACED.
2. EXISTING METER/DISCONNECT ON UTILITY POLE TO BE REPLACED ON A STANCHION.
3. SOME PULLBOXES SHOWN ARE ROUND-TOPPED. THEY ACTUALLY MAY BE SOMETHING OTHER THAN PULLBOXES. CONTRACTOR TO DETERMINE WHAT THESE STRUCTURES ARE. IF THEY ARE NOT VAOT PULLBOXES, THEY SHOULD NOT BE REMOVED.

/traf/94o290/to290.dgn/to2909J
PLOTTED: 05-JUL-2001

SITE 7
LYNDON, EXIT #23, I-91

PREPARED BY R.P.D. DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 9 OF 37 SHEETS

JUNCTION BOX

JUNCTION BOX 1

PULL BOX (MOD) - REMOVAL

PULL BOX 1
PULL BOX 2
PULL BOX 3
PULL BOX 4
PULL BOX 5

WIRED CONDUIT (MOD) (2'' PVC, WITH 3-#6 COPPER AND 1 #6 COPPER GROUND)

METER ON BLDG TO PULL BOX 6
PULL BOX 6 TO POLE #13
POLE #13 TO POLE #3

WIRED CONDUIT (MOD) (2" PVC, WITH 3- #8 COPPER AND 1- #6 COPPER GROUND)

PULL BOX 6 TO POLE #14
POLE #3 TO POLE #4
POLE #4 TO POLE #5
POLE #5 TO POLE #6
POLE #6 TO POLE #7
POLE #7 TO POLE #8
POLE #3 TO POLE #2
POLE #2 TO POLE #1
POLE #3 TO POLE #9
POLE #9 TO POLE #10
POLE #10 TO POLE #11
POLE #11 TO POLE #12

ELECTRICAL CONDUIT SLEEVE (6" PVC)

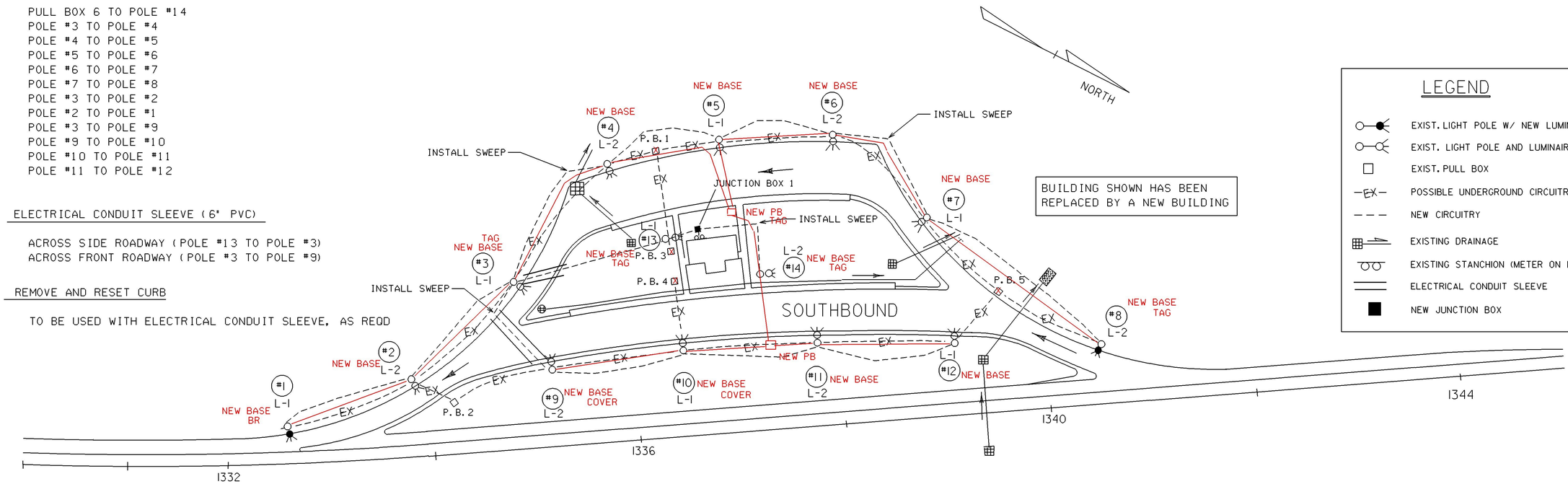
ACROSS SIDE ROADWAY (POLE #13 TO POLE #3)
ACROSS FRONT ROADWAY (POLE #3 TO POLE #9)

REMOVE AND RESET CURB

TO BE USED WITH ELECTRICAL CONDUIT SLEEVE, AS REQD

STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE	LIGHT POLE TAG	HAND HOLE COVER	NEW LAMP REQ'D	REMOVE/ RESET POLE	ELECT WIRING	NEW LUMINAIRE REQ'D	REMOVE POLE & BASE	EXIST. BREAK-AWAY	EXIST. LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE	REMARKS
	679.23	679.21 MOD 3	679.21 MOD 2	679.50 MOD	679.25	678.24	679.50	679.25 MOD				679.21 MOD 1	
1	X				X	X	X		NONE	150 W. HPS	30	X	INSTALL NEW 100 W LUM TO REPLACE EXIST 150 W
2				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 15" HIGHER THAN EXISTING, TRAF COUNT STAND & LOOP LOC NEARBY, IF DAMAGED CONTRACTOR TO REPAIR AT HIS EXPENSE
3		X		X	X	X			T-BASE	100 W. HPS	30	X	NEW BASE ELEVATION TO BE APPROX. 6" HIGHER THAN EXISTING REPLACE NON FUNCTIONING PHOTO CELL
4				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
5				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
6				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
7				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
8		X			X	X	X		T-BASE	150 W. HPS	30	X	NEW BASE ELEVATION TO BE APPROX. 12" HIGHER THAN EXISTING. INSTALL NEW 100W LUMINAIRE TO REPLACE EXISTING 150W, NEW TAG TO SHOW 100W
9			X	X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 10" HIGHER THAN EXISTING
10			X	X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
11				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
12				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 12" HIGHER THAN EXISTING
13		X		X	X	X			NONE	250 W. HPS	30	X	NEW BASE ELEVATION TO BE APPROX. 6" HIGHER THAN EXISTING REPLACE EXISTING TAG WITH NEW SHOWING 250W LUMINAIRE
14		X		X	X	X			NONE	250 W. HPS	30	X	NEW BASE ELEVATION TO BE APPROX. 10" HIGHER THAN EXISTING REPLACE EXISTING TAG WITH NEW SHOWING 250W LUMINAIRE



BUILDING SHOWN HAS BEEN REPLACED BY A NEW BUILDING

LEGEND

- EXIST. LIGHT POLE W/ NEW LUMINAIRE
- EXIST. LIGHT POLE AND LUMINAIRE
- EXIST. PULL BOX
- POSSIBLE UNDERGROUND CIRCUITRY
- NEW CIRCUITRY
- EXISTING DRAINAGE
- EXISTING STANCHION (METER ON BLDG)
- ELECTRICAL CONDUIT SLEEVE
- NEW JUNCTION BOX

NOTES

1. THE LOCATION OF EXISTING CONDUIT IS UNKNOWN IN THE AREA OF THE BUILDING. THEREFORE, WORK SHALL PROCEDE IN THE FOLLOWING MANNER AT THIS LOCATION:
   A. THE CONTRACTOR SHALL DETERMINE WHETHER THE CONDUIT IN THE AREA OF THE BUILDING IS PVC OR STEEL.(THIS MAY BE ACCOMPLISHED BY EXCAVATION AROUND POLE 13 AND 14.) NO EXTRA PAYMENT WILL BE MADE FOR THIS DETERMINATION.
      I. IF STEEL, THE CONTRACTOR SHALL REPLACE CONDUIT AS PER PLAN.
      II. IF PVC, THE CONTRACTOR SHALL PERFORM AN INSULATION TEST AS PER SHEET 12 OF THESE PLANS AND SECTION 679.08 OF THE VAOT STANDARD SPECIFICATIONS.
         A. IF TEST SHOWS THAT CONDUIT IS IN POOR CONDITION, THE CONTRACTOR SHALL REPLACE CONDUIT AS PER PLAN.
         B. IF TEST SHOWS THAT CONDUIT IS IN GOOD CONDITION, AND INSPECTION OF CONDUIT AND WIRE APPEARANCE IS SATISFACTORY, THE EXISTING CONDUIT MAY BE RETAINED, AT THE ENGINEERS DISCRETION.
2. PULLBOX 3 AND 4 COULD NOT BE LOCATED DURING FIELD INSPECTION. THEREFORE IT IS UNKNOWN WHERE THE CONDUIT IS LOCATED THAT SERVES THE OUTLYING LIGHTING. REGARDLESS, THE NEW CONDUIT, AS DESIGNED, SHOULD PROVIDE AN ADEQUATE SOLUTION. SEE ''PULLBOXES'' ON SHEET 12 FOR FURTHER GUIDANCE.

0' 50' 100'
SCALE IN FEET

ARCHIVED ON CADD

/traf/94a290/td290.dgn/td29010

PLOTTED: 05-JUL-2001

SITE 8
LYNDON REST AREA, I-91

PREPARED BY RPD DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 10 OF 37 SHEETS

PULL BOX (MOD) - REMOVAL

PULL BOX 6
PULL BOX 7
PULL BOX 8

WIRED CONDUIT (MOD) (2" PVC, WITH
3- #6 COPPER AND 1- #6 COPPER GROUND)

STANCHION TO PULL BOX 9

WIRED CONDUIT (MOD) (2" PVC, WITH
3- #8 COPPER AND 1- #6 COPPER GROUND)

PULL BOX 9 TO POLE #15
POLE #15 TO POLE #14
POLE #14 TO POLE #13
POLE #15 TO POLE #16
POLE #16 TO POLE #17
PULL BOX 9 TO PULL BOX 10
PULL BOX 10 TO POLE #6
POLE #6 TO POLE #5
POLE #5 TO POLE #4
POLE #4 TO POLE #3
POLE #3 TO POLE #2
POLE #2 TO POLE #1
PULL BOX 10 TO POLE #7
POLE #7 TO POLE #8
POLE #8 TO POLE #9
POLE #9 TO POLE #10
POLE #10 TO POLE #11
POLE #11 TO POLE #12

LEGEND

- EXIST. LIGHT POLE AND LUMINAIRE
- EXIST. PULL BOX
- EXIST. UNDERGROUND CIRCUITRY
- NEW CIRCUITRY
- EXISTING DRAINAGE
- EXISTING STANCHION (LOCKED)
- ELECTRICAL CONDUIT SLEEVE

ELECTRICAL CONDUIT SLEEVE (6" PVC)

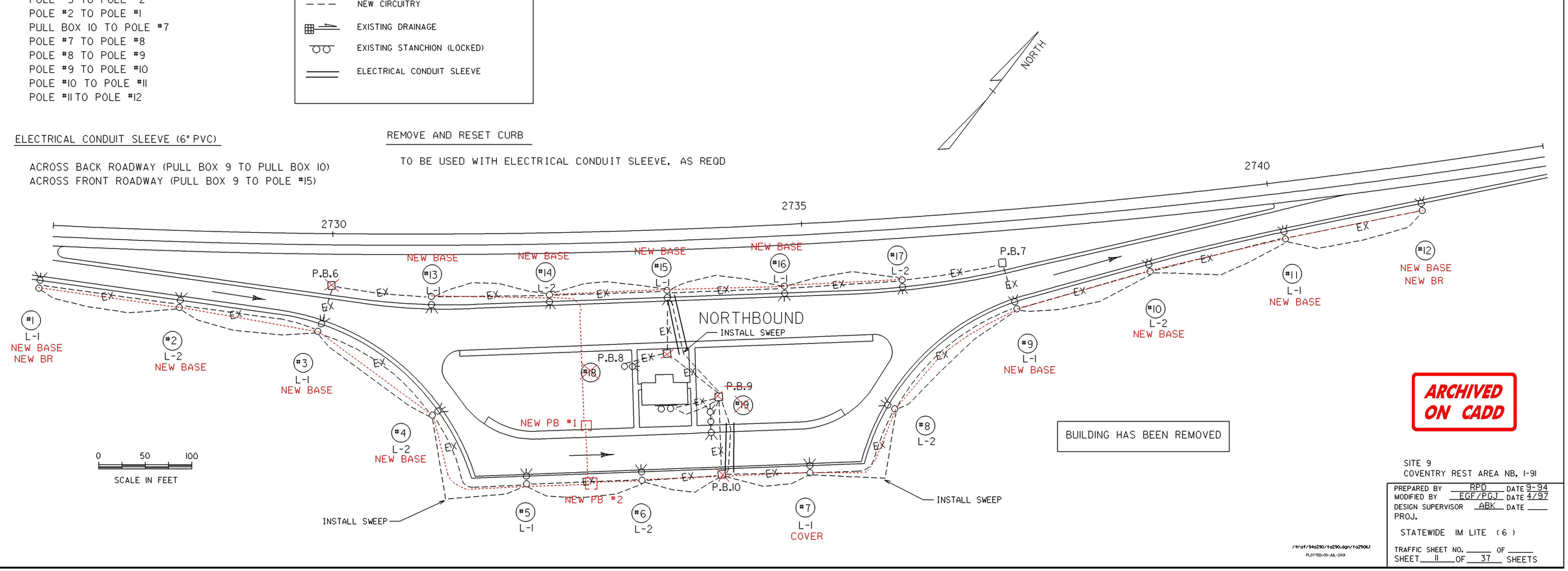
ACROSS BACK ROADWAY (PULL BOX 9 TO PULL BOX 10)
ACROSS FRONT ROADWAY (PULL BOX 9 TO POLE #15)

REMOVE AND RESET CURB

TO BE USED WITH ELECTRICAL CONDUIT SLEEVE, AS REQD

STREET LIGHTING LOCATIONS

POLE NO.	INSTALL NEW T-BASE 679.23	LIGHT POLE TAG 679.21 MOD 3	HAND HOLE COVER 679.21 MOD 2	NEW LAMP REQ'D 679.50 MOD	REMOVE/ RESET POLE 679.25	ELECT WIRING 678.24	NEW LUMINAIRE REQ'D 679.50	REMOVE POLE & BASE 679.25 MOD	EXIST. BREAK-AWAY	EXIST. LUMINAIRE WATTS TYPE	EXIST. MOUNT HEIGHT	NEW CONC. BASE 679.21 MOD 1	REMARKS
1	X			X	X	X			COUP	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
2				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
3				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 8" HIGHER THAN EXISTING
4				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
5				X					NONE	150 W. HPS	30		
6				X					NONE	150 W. HPS	30		
7			X	X					NONE	150 W. HPS	30		
8				X					NONE	100 W. HPS	30		
9				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
10				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING, TRAF COUNT STAND & LOOP LOC NEARBY IF DAMAGED CONTRACTOR TO REPAIR AT HIS EXPENSE
11				X	X	X			NONE	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
12	X			X	X	X			COUP	100 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
13				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
14				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
15				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 6" HIGHER THAN EXISTING
16				X	X	X			NONE	150 W. HPS	30	X	NEW BASE ELEV. TO BE APPROX. 4" HIGHER THAN EXISTING
17				X					NONE	150 W. HPS	30		
18								X	NONE	150 W. HPS	30		
19								X	NONE	2@ 150WHPS	30		



SITE 9
COVENTRY REST AREA NB, I-91

PREPARED BY RPD DATE 9-94
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 11 OF 37 SHEETS

/traf/94a290/ta290.dgn/ta290li
PLOTTED:05-JUL-2006

INSULATION TEST

THE CONTRACTOR SHALL PERFORM AN INSULATION TEST ON ALL CONDUCTORS EXCEPT THE GROUND CONDUCTOR (INCLUDING NEUTRAL, DISCONNECT FROM GROUND BEFORE TESTING). PERFORM A RESISTANCE TO GROUND TEST AT SPECIFIED GROUNDS. SEE VERMONT STANDARD SPECIFICATION 679.08. FURNISH THE RESIDENT ENGINEER THE READINGS OBTAINED FROM THE ABOVE TESTS.

1. THE INITIAL INSULATION READING SHOULD BE TAKEN AT THE SERVICE CENTER. IF A LOW READING IS DETECTED, THE CIRCUITRY SHALL BE BROKEN DOWN AT EXISTING SPLICES TO LOCATE THE PROBLEM AREA, AND SHALL THEN BE REPAIRED OR REPLACED.

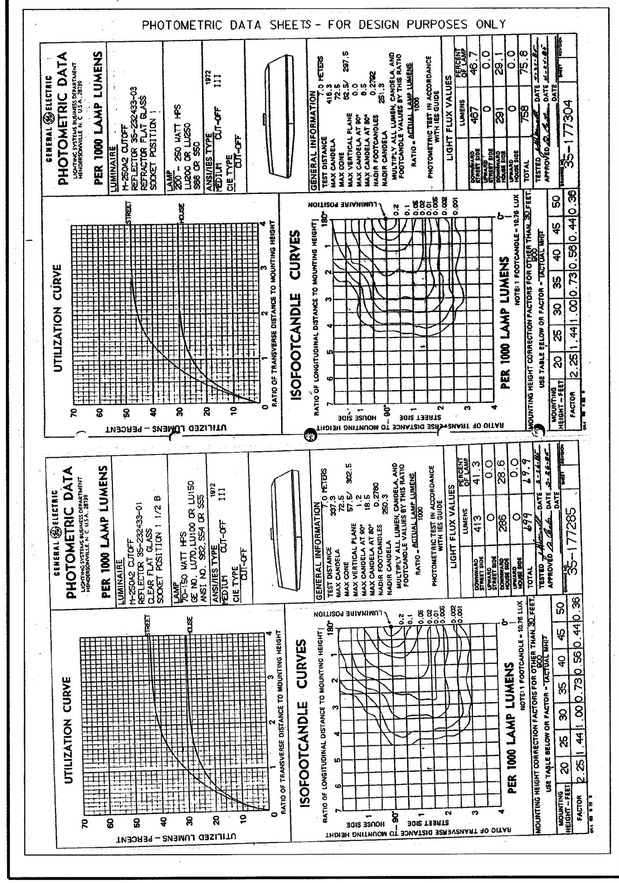
2. NEW WIRING SHALL HAVE A READING OF 100 MEGOHMS OR MORE, REGARDLESS OF TEST VOLTAGE OR CIRCUIT LENGTH OF LESS THAN 1500 FEET. SPLICES TO BE REPAIRED OR REPLACED AND/OR WIRING TO BE REPLACED AS NECESSARY.

THERE ARE TWO FACTORS TO BE CONSIDERED WHEN AN INSULATION TEST IS PERFORMED.

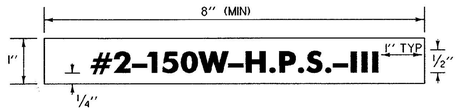
A. THE OUTPUT VOLTAGE OF THE TEST INSTRUMENT SHOULD BE SET TO 500 VOLTS. (1000 VOLTS IF AN ACCURATE READING CANNOT BE OBTAINED WITH 500 VOLT SETTING). WHEN THE INSTRUMENT IS SET AT 1000 VOLTS, IT WILL PRODUCE A LOWER MEGAOHM READING THAN WHEN SET AT 500 VOLTS. THIS SHOULD NOT AFFECT EITHER OF THE REQUIRED MINIMUM MEGAOHM VALUES REQUIRED ABOVE.

B. THE MEGOHM READING OF THE CIRCUIT BEING TESTED IS INVERSELY PROPORTIONAL TO THE VOLUME OF INSULATION BEING TESTED, OR LENGTH OF CIRCUIT. THIS COULD HAVE AN EFFECT ON EITHER OF THE REQUIRED MINIMUM MEGOHM VALUES REQUIRED ABOVE, ESPECIALLY, IF THE CIRCUIT LENGTH IS MORE THAN 1500 FEET.

PHOTOMETRIC DATA SHEETS - FOR DESIGN PURPOSES ONLY



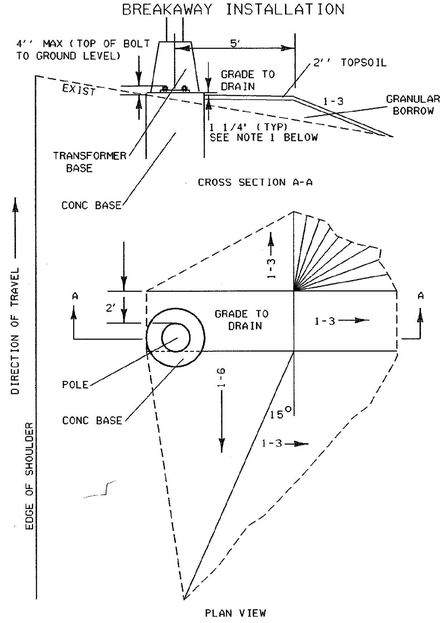
DETAILS FOR TAGS ATTACHED TO STREET LIGHT POLES



LEGEND: BLACK OR WHITE (NON-REFL.) - STAMPED PRIOR TO PRINTING/PAINTING.
BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, SAME AS POLE FINISH.

NOTES:
1. THE TAG SHALL BE MOUNTED ON ALL STREET LIGHT POLES IN SUCH A MANNER AS NOT TO BE EASILY REMOVED, SUCH AS WELDED, RIVETED, OR BOLTED WITH VANDAL PROOF BOLTS.
2. THE LETTERS SHALL BE PUNCHED, STAMPED, ENGRAVED, OR PHOTO-ETCHED. PUNCHING, STAMPING OR ENGRAVING SHALL PENETRATE ONE HALF THE BASE MATERIAL THICKNESS.
3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.
4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 6 INCHES MAXIMUM. IF THE POLE HAS A TRANSFORMER BASE, ATTACH TAG TO COVER.

TYPICAL TOPSOIL AND FILL DETAIL FOR BREAKAWAY INSTALLATION



1. NEW BASES TO BE POURED WITH 1 1/4'' CLEARANCE BETWEEN TOP OF BASE AND GROUND LEVEL. IF RETAINED, EXISTING BASE HAVING GREATER THAN 1 1/4'' CLEARANCE SHALL BE FILLED WITH UP TO 2'' TOPSOIL AND GRANULAR BORROW, AS REQUIRED.
2. WHERE A NEW BASE IS POURED, IT SHOULD HAVE AN ELEVATION EQUAL TO EDGE OF SHOULDER ELEVATION, EXCEPT WHERE STEEP AND/OR LONG SIDESLOPES EXIST WHICH WOULD CAUSE FILL LINE TO BE UNREASONABLY FAR DOWN THE SLOPE.
3. AT SITE 48, BRADFORD NB REST AREA, 5 FT FLAT SLOPE BEHIND THE POLE IS DIFFICULT TO BE OBTAINED FOR POLE #9 AND #10. DUE TO EXISTING STEEP SLOPE. SINCE THIS IS BEHIND GUARDRAIL, IT IS PERMISSIBLE TO LIMIT FILL/TOPSOIL TO THE FRONT AND UPSTREAM SIDES OF THE BASE.

GENERAL STREET LIGHT NOTES

CONCRETE BASES

NEW ELEVATIONS OF CONCRETE BASES HAVE BEEN ESTIMATED. ACTUAL ELEVATIONS TO BE DETERMINED BASED ON STD E-180B. IN MOST CASES, A NEW BASE WILL BE POURED IN THE SAME LOCATION WHERE AN EXISTING BASE IS REMOVED. DIAMETER REQ: NEW BASE DIAMETER TO BE AT LEAST AS GREAT AS EXISTING. DEPTH REQ: IF THE NEW ELEVATION IS HIGHER THAN EXISTING, THE DEPTH OF BASE MAY BE LARGER THAN REQUIRED. IF SO, THE ENTIRE DEPTH SHALL BECOME THE NEW BASE DEPTH. IF THE ELEVATION IS LOWER THAN EXISTING, THEN THE DEPTH OF THE NEW BASE SHALL BE CHECKED CAREFULLY, TO ENSURE THAT THE NEW BASE WILL HAVE THE REQUIRED DEPTH. ADDITIONAL EXCAVATION MAY BE NECESSARY TO GET THE REQUIRED DEPTH OF CONCRETE BASE. SINCE NEW BASES WILL BE PLACED IN EXISTING LOCATIONS, COMPACTION IS VERY IMPORTANT.

EXISTING LIGHT POLES WITH MULTIPLE SHIMS SHALL HAVE SHIMS REMOVED AND REPLACED WITH LEVELING NUTS. THE SPACE BETWEEN LIGHT POLE BASE PLATE AND TOP OF CONCRETE BASE SHOULD BE FILLED WITH GROUT AFTER POLE IS PLUMBED (THIS WORK TO BE PAID BY ITEM 679.25, REMOVE/RESET LIGHT POLE). IF EXISTING ANCHOR BOLTS ARE TOO SHORT, INSTALL A NEW CONCRETE BASE (ITEM 679.21 MOD).

WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE HEIGHT.

FOR POLES WITH BREAKAWAY FEATURES (TRANSFORMER BASES):
WHEN AN EXISTING LIGHT POLE BASE IS MORE THAN 1-1/4 INCH ABOVE SURROUNDING GROUND, TOP SOIL SHALL BE PLACED AROUND EXISTING CONCRETE BASE TO WITHIN 1-1/4 INCH OF THE TOP OF CONCRETE. SEE DETAILS ON THIS SHEET FOR SLOPING AND CLEARANCE REQUIREMENTS FOR BREAKAWAY INSTALLATIONS.

ALL EXISTING COUPLING-TYPE BREAKAWAY FEATURES ARE TO BE REMOVED OR REPLACED BY TRANSFORMER BASES, AS THE PLANS INDICATE.

CARE SHOULD BE TAKEN WHERE CONCRETE BASES ARE NEAR DRAINAGE STRUCTURES, OR UTILITIES, AND / OR TRAFFIC STANDS OR LOOPS. CONTRACTOR TO REPLACE ANY DAMAGE, AT HIS EXPENSE.

POLES, ANCHOR BASES AND ARMS

ALL REMOVED LIGHT POLES, LUMINAIRE ARMS AND LUMINAIRES SHALL REMAIN PROPERTY OF THE STATE. SEE SPECIAL PROVISIONS.

ALUMINUM STREET LIGHT POLES SHAFT WALL THICKNESS SHALL BE AS NOTED IN THE SPEC. BOOK OR ON STANDARD SHEETS OR WILL BE GOVERNED BY MOUNTING HEIGHT, ARM LENGTH, NUMBER OF ARMS, LUMINAIRE WEIGHT AND EPA (EFFECTIVE PROJECTED AREA).

ALL NEW STREET LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM IN ACCORDANCE WITH SUBSECTION 753.01(b).

IF AN EXISTING BREAKWAY FEATURE NEEDS REPLACEMENT OR A NEW INSTALLATION REQUIRES ONE, IT SHALL BE AN APPROVED ALUMINUM TRANSFORMER BASE. PAID AS ITEM 679.23.

WHEN A TRANSFORMER BASE IS TO BE INSTALLED AS THE BREAKAWAY FEATURE IT SHALL HAVE EITHER A 1/8 INCH THICK PREFORMED FABRIC BEARING PAD OR A COATING OF ALUMINUM IMPREGNATED CAULKING COMPOUND PLACED BETWEEN THE TOP OF THE CONCRETE POLE BASE AND THE BOTTOM OF THE ALUMINUM TRANSFORMER BASE.

LUMINAIRES

LIGHT DISTRIBUTION IS BASED ON GENERAL ELECTRIC PHOTOMETRIC DATA DRAWINGS #35-177285, MEDIUM CUT-OFF, TYPE III DISTRIBUTION. DATED 03-26-85 AND DRAWING #35-177304, MEDIUM CUT-OFF, TYPE III DISTRIBUTION, DATED 4-24-85.
THE ABOVE PHOTOMETRIC DATA DRAWINGS WERE USED FOR DESIGN PURPOSES ON THIS PROJECT. OTHER MANUFACTURER'S PRODUCTS MAY BE SUBSTITUTED IF THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM FOOTCANDLES ON THE ROADWAY AND SHOULDER ARE AT LEAST AS GREAT AS THAT INDICATED BY THE ABOVE PHOTOMETRICS.

DISCONNECT PLUG KITS

ALL LIGHT POLE BASES THAT HAVE WIRING SPLICES IN THE LINE(S) OR NEUTRAL CONDUCTOR (WHICH ARE NOT PRESENTLY DISCONNECT PLUG KITS) SHALL HAVE THE SPLICE REPLACED WITH THE PROPER DISCONNECT PLUG KIT. THIS WILL BE PAID AS ITEM 679.23 (MOD). SEE SPECIAL PROVISIONS.
THIS ITEM IS PAID SEPERATELY ONLY WHERE NO OTHER WORK IS BEING DONE ON THE POLE. DISCONNECT PLUG KITS ARE PAID SUBSIDIARY TO ITEM 679.45 LIGHT POLE FOR NEW POLES, AND TO ITEM 678.24 ELECTRICAL WIRING FOR REHABILITATED POLES, AS PER SUPPLEMENTAL SPECIFICATIONS.

CONDUIT

EXISTING CONDUIT SHOWN IS FROM BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY LOCATIONS WHERE NECESSARY. MANY CONDUIT RUNS ARE SHOWN AS "LOOPING AROUND" EXISTING CONDUIT, FOR CLARITY. THOSE CONDUITS SHALL BE INSTALLED AS "STRAIGHT LINE" AS POSSIBLE FROM ONE SPLICE TO ANOTHER, EXCEPT WHERE SWEEPS WILL BE REQUIRED, AS INDICATED ON PLANS.
EXISTING CONDUIT, WHICH IS TO BE REPLACED, SHOULD BE ABANDONED-IN-PLACE. IF IT IS NECESSARY TO REMOVE ANY CONDUIT, IT SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/35TH THE DIAMETER. ALL CONDUIT RUNS UNDER ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN 2 FEET OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND 4 FEET BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACKFILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
WHERE SLEEVE NEEDS TO EXTEND UNDER GRANITE CURB AND/OR SIDEWALK, ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR REMOVAL AND REPLACEMENT OF THESE ITEMS.
ITEM 643.20 JACKING OR BORING IS TO BE USED ONLY WHERE TRENCHING CANNOT BE PRACTICALLY ACCOMPLISHED-SUCH AS WHERE CONCRETE PAVEMENT IS ENCOUNTERED-AT THE RESIDENT'S DISCRETION. ITEM 204.20 TRENCH EARTH IS INCLUDED FOR EXCAVATION OF PITS. IF JACKING OR BORING IS REQUIRED, TRENCHING FOR CONDUIT SLEEVE PLACEMENT IS SUBSIDIARY.

PLOTTED 11-AUG-1997

WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND /OR PULLBOXES SHALL BE COPPER (#8 AWG MINIMUM) AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE TO HAVE TYPE XHHW INSULATION OR EQUIVALENT.

ALL EXISTING WIRING TO BE REPLACED SHALL BE COPPER AND SHALL BE #8 AWG. MINIMUM, EXCEPT WHEN AN EXISTING CIRCUIT WHICH HAS A SMALLER WIRE SIZE AT THE SERVICE CENTER END OF THE CIRCUIT. IN THAT CASE, REPLACE WITH THE REQUIRED MINIMUM SIZE.

USE #10 AWG STRANDED COPPER WIRE IN EACH POLE BETWEEN POLE BASE AND LUMINAIRE.

ITEM 678.24, ELECTRICAL WIRING, SHALL BE PAID ON ALL REMOVED & RESET POLES. A QUANTITY OF (MOUNTING HEIGHT + 10) LF PER POLE HAS BEEN INCLUDED AS AN ESTIMATE.

GROUNDING

ALL CONDUIT AND CIRCUITS MUST INCLUDE A CONTINUOUS GROUNDING CONDUCTOR FROM END OF CIRCUIT TO SERVICE CENTER. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS, NO SPLICES, BUT MAY HAVE TAPS CONNECTED TO IT AT THE SERVICE CENTER AND POLE BASES.

ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINT SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

PULLBOXES AND JUNCTION BOXES

MANY OF THE EXISTING PULLBOXES WERE NOT FIELD CHECKED FOR CONDITION BECAUSE THEY WERE INACCESSIBLE. THE CONTRACTOR SHOULD LOCATE AND CHECK ALL EXISTING PULLBOXES. WHERE PLANS SHOW THAT EXISTING PULLBOXES TO BE REUSED, THE RESIDENT ENGINEER SHALL DETERMINE IF REPLACEMENT IS REQUIRED. PAYMENT FOR REMOVAL TO BE BY ITEM 678.25 (MOD). PAYMENT FOR REPLACEMENT TO BE BY ITEM 678.25.

JUNCTION BOXES ARE ONLY TO BE USED OUTSIDE THE CLEARZONE, DUE TO STRUCTURAL LIMITATIONS. IF ANY EXISTING PULLBOX IS TO BE REPLACED, REPLACEMENT WILL BE WITH A PULLBOX, NOT A JUNCTION BOX.

SOME PULL BOXES MAY BE BURIED BY FILL OR OTHERWISE NOT LOCATEABLE. IF THIS CONDITION EXISTS FOR PULL BOXES WHICH PLANS SHOW REMOVED, THEN THEY SHOULD BE ABANDONED. NO PAYMENT FOR REMOVAL SHALL BE MADE IN THIS CASE.

FOR DETAILS SEE STANDARD SHEET E-173.

GENERAL

EXISTING CIRCUITRY IS PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXACT LOCATION.

THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING WORK WITH LOCAL UTILITIES WITH FACILITIES IN THE PROJECT AREA FOR LOCATION OF POWER SOURCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY ELECTRICAL PERMITS.

ALL EXISTING ANCHOR BOLT COVERS SHALL BE REMOVED.

SEEDING FORMULA
URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREEPING RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

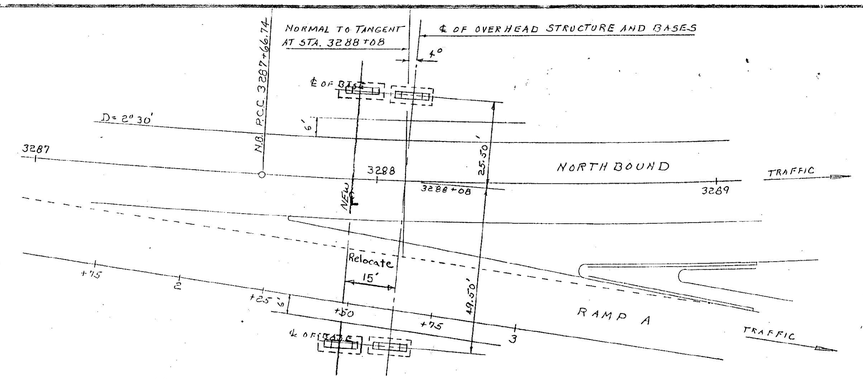
SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

NOTE AND DETAIL SHEET

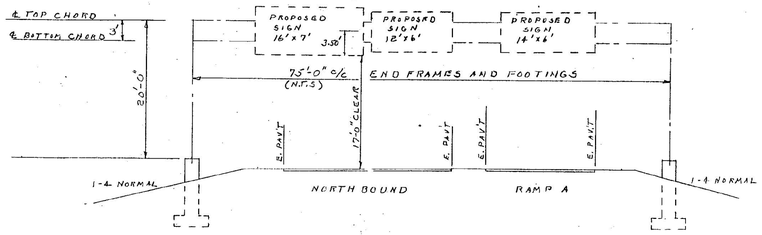
PREPARED BY RPD DATE 1-96
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ARK DATE ____
PROJ.

STATEWIDE IM LITE (6)

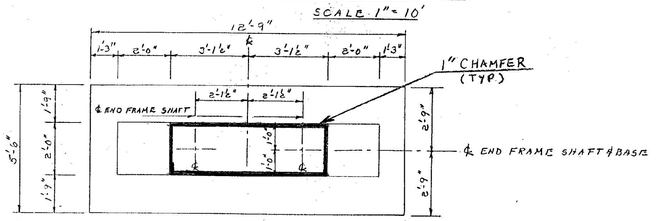
TRAFFIC SHEET NO. ____ OF ____
SHEET 12 OF 37 SHEETS



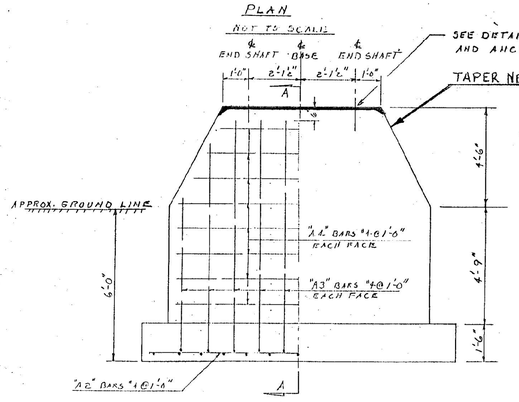
LOCATION PLAN
SCALE 1" = 20'



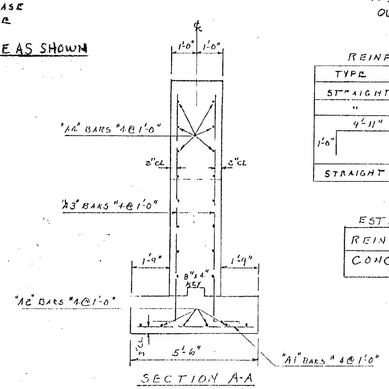
ELEVATION VIEW
SCALE 1" = 10'



PLAN
NOT TO SCALE



ELEVATION VIEW OF BASE
SCALE 3/8" = 1'-0"



SECTION A-A
NOT TO SCALE

NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO AASHTO STD. SPECS FOR HIGHWAY BRIDGES, DATED 1992 AND LATEST REVISION, AND STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND IT'S LATEST REVISIONS.
3. ALL CONCRETE SHALL BE CONCRETE CLASS B.

4. ALL REINFORCING STEEL SHALL BE AASHTO M31, GRADE 60, EPOXY COATED.

5. FABRICATOR TO DESIGN AND TO SUPPLY (ONLY ONE) NEW ADEQUATE POLE BASE. ALLOWABLE STRESS FOR NEW BASE SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE ALUMINUM ASSOC. PUBLICATION 30 "SPECIFICATIONS FOR ALUMINUM STRUCTURES."

6. ANCHOR BOLTS :

FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED FOR EACH EXISTING POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL.
SEE SUB-SECTION 714.09.

7. SHOP DRAWINGS (6 COPIES OF EACH SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, STRUCTURES DIVISION FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. DETAIL DRAWING OF EACH COMPONENT OF THE STRUCTURE.

B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET) .

D. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWING. (SEE SUBSECTION 506.10).

8. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIALS BEING WELDED.

9. EACH OVERHEAD TRAFFIC SIGNAL/ SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF :
A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

B. A # 6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

C. A 5/8" X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITION GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6 ').

10. BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GUAGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, GUAGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

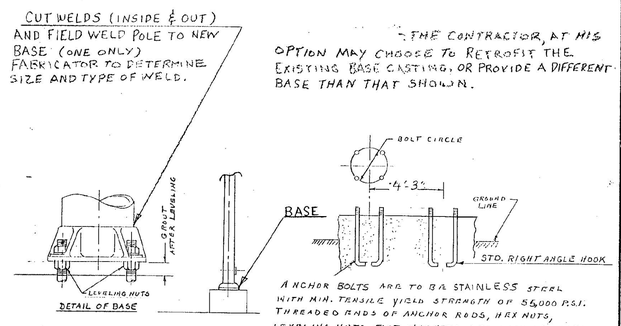
11. INSTALL NEW FOOTINGS AND PEDESTALS BEFORE CRANE COMES SO WHEN THE CRANE IS ON THE PROJECT TO LIFT TRAFFIC BRIDGE SIGN TO BE REPAIRED IT CAN RESET ON NEW PEDESTALS DIRECTLY TO MINIMIZE CRANE COSTS, TRAFFIC DISRUPTION AND SAFETY CONSEQUENCES TO TRAFFIC.
SEE STANDARD E-171A FOR ADDITIONAL NOTES.
12. REMOVAL OF EXISTING CONCRETE 1' BELOW EXISTING GROUND.
13. LEVEL SURFACE UNDER BASE PLATE.
14. EARTH MATERIAL FROM NEW STRUCTURE TO BE USED FOR BACKFILL OF OLD STRUCTURE, PAYMENT SUBSIDIARY TO OTHER ITEMS.

REINFORCING STEEL SCHEDULE

TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
"	12	#4	A2	12'-3"
1'-0" 4'-11"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.



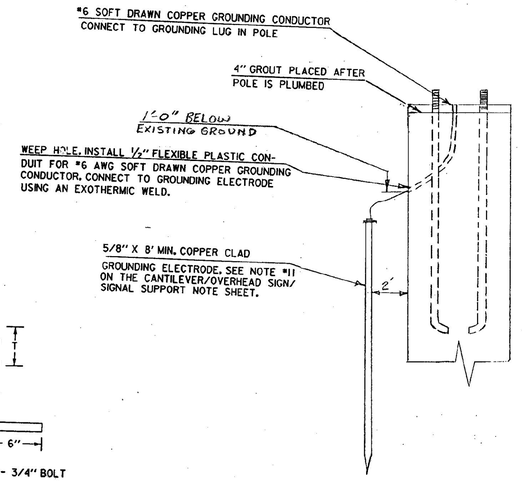
DETAIL OF BASE

ANCHOR BOLTS ARE TO BE STAINLESS STEEL WITH MIN. TENSILE YIELD STRENGTH OF 55,000 P.S.I. THREADED ENDS OF ANCHOR RODS, HEX NUTS, LEVELING NUTS, FLAT WASHERS, AND LOCK WASHERS SHALL BE PER SUBSECTION 714.09.

DETAIL OF ANCHORAGE

1- 1/4" TO 1- 3/4" BOLT

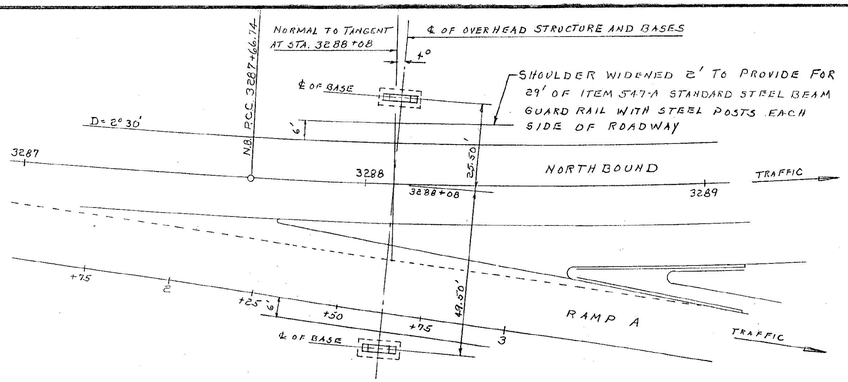
ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/2" X 60"	54	9



		UNIT	NET	OVERRUN	TOTAL

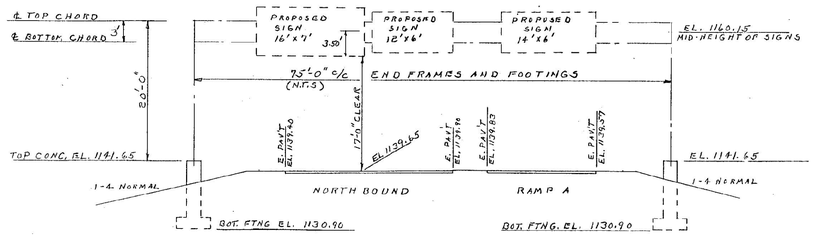
STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of DERBY	Bridge No. NB.
Highway No. I 91	Log Sta. 177+1089
	Surv. Sta. 3287+93
OVERHEAD TRAFFIC SIGN SUPPORT	
Designed By SHF	Drawn By SHF
Checked By JHWEAVER Date 6 28 96	Bridge Design Supervisor JH WEAVER Date 6 28 96
PROJECT STATEWIDE	PROJECT NO. IM LITE (6)
I.G.C. Info.	
Bridge Sheet No.	Sheet 13 of 37



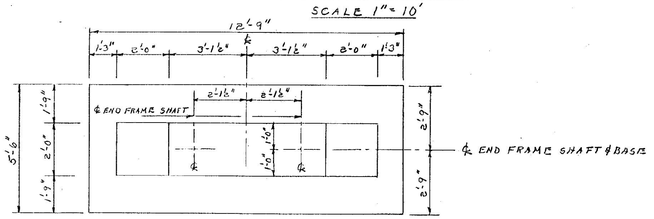
LOCATION PLAN

SCALE 1" = 20'



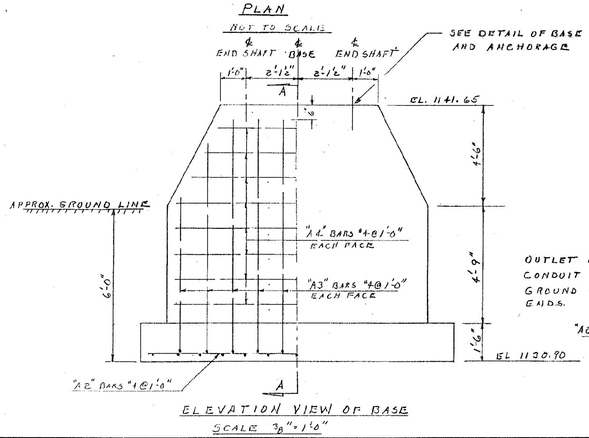
ELEVATION VIEW

SCALE 1" = 10'



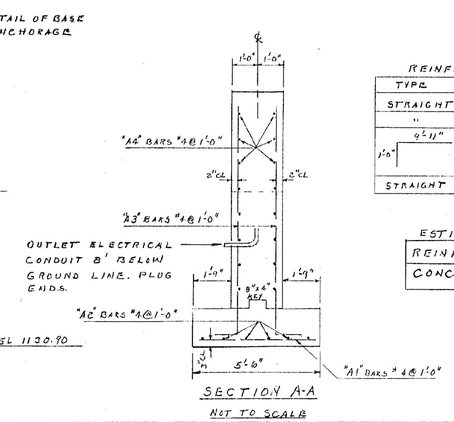
PLAN

NOT TO SCALE



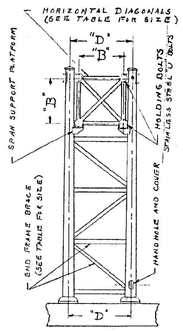
ELEVATION VIEW OF BASE

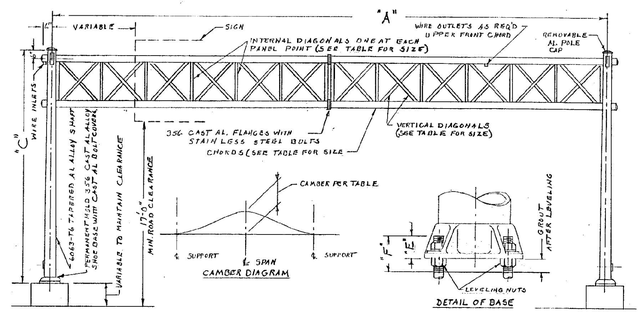
SCALE 3/8" = 1'-0"



SECTION A-A

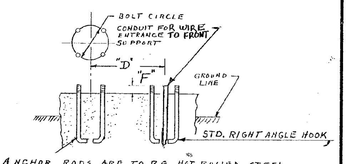
NOT TO SCALE





TYPICAL ALUMINUM BOX TRUSS SIGN SPAN

NO SCALE

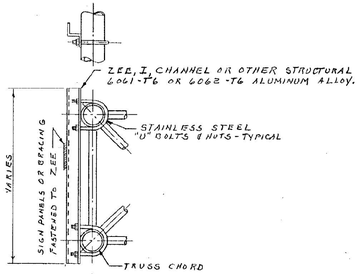


ANCHOR RODS ARE TO BE HOT ROLLED STEEL WITH MIN. TENSILE YIELD STRENGTH OF 50,000 P.S.I. THREADED ENDS OF ANCHOR RODS, HEX NUTS, LEVELING NUTS, FLAT WASHERS, AND LOCK WASHERS TO BE HOT DIPPED GALVANIZED.

DETAIL OF ANCHORAGE

DATA FOR ABOVE ALUMINUM BOX TRUSS SIGN SPAN TO CARRY 300 SQUARE FEET OF SIGNS

A	B	C	D	E	F	SPAN SECTIONS REQ'D	CHORD SIZE	END FRAME SHAFT SIZE AND TAPER	VERTICAL DIAGONAL SIZE	HORIZONTAL DIAGONAL SIZE	INTERNAL DIAGONAL SIZE	END FRAME BRACE SIZE	CAMBER	BOLT CIRCLE DIA.	ANCHORAGE
75'-0"	3'-0"	20'-6"	4'-3"	3¼"	5¼"	3	4¾" O.D. .188 WALL	10"x 8"x .250 WALL	1.660" O.D. .140 WALL	1.900" O.D. .145 WALL	1.900" O.D. .145 WALL	2½" O.D. .188 WALL	2¼"	16"	1½" DIA. x 48" LG.



TYPICAL SIGN HANGERS

NO SCALE

NOTE CONTRACTOR TO SUBMIT DETAILED DRAWINGS OF SIGN HANGERS FOR APPROVAL OF THE ENGINEER.

REINFORCING STEEL SCHEDULE

TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
"	12	#4	A2	12'-3"
9'-11" 1'-0"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.

NOTES

ALL WORK AND MATERIALS TO CONFORM TO STATE OF VERMONT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED JANUARY 1956. DESIGN PROCEDURES, FABRICATION, AND CONSTRUCTION OF SIGN STRUCTURE SHALL BE IN ACCORDANCE WITH PAPER 970, OF THE A.S.C.E. JOURNAL OF THE STRUCTURAL DIVISION, MAY 1956. ALLOWABLE STRESSES IN ALUMINUM ALLOYS SHALL BE THE LATEST STRESSES APPROVED BY THE U.S. BUREAU OF PUBLIC ROADS. DESIGN DATA FROM THE FOLLOWING PAPERS IS ACCEPTABLE: PAPER 2528 "DESIGN OF WELDED ALUMINUM STRUCTURES," JUNE 1960; PAPER 2581 "STRENGTH OF WELDED ALUMINUM COLUMNS," AUGUST, 1960.

NO FIELD WELDING OF ALUMINUM SHALL BE PERMITTED.

STRUCTURE DESIGNED FOR WIND LOAD ON SIGNS OF 30 POUNDS PER SQUARE FOOT.

FOUNDATION DESIGNED FOR ONE TON PER SQUARE FOOT.

THE ABOVE TYPICAL ALUMINUM BOX TRUSS SIGN SPAN IS DRAWN TO SHOW DETAILS DESIRED IN THE STRUCTURE. AN EQUIVALENT ALUMINUM TYPE STRUCTURE MAY BE SUBSTITUTED WITH SUBMITTAL OF DRAWINGS AND APPROVAL OF THE ENGINEER. END FRAME SHAFTS ARE TO BE TAPERED.

ALL MATERIAL IN BOX TRUSS TO BE 6061-T6 OR 6062-T6 ALUMINUM ALLOY UNLESS OTHERWISE SPECIFIED. END FRAME SHAFTS TO BE 6063-T6 ALUMINUM ALLOY.

CONCRETE TO BE AS SPECIFIED UNDER ITEM 401-B CLASS B CONCRETE, MOD.

REINFORCING STEEL TO BE AS SPECIFIED UNDER ITEM 402 REINFORCING STEEL.

PROVISIONS FOR FUTURE LIGHTING OF SIGN TO BE INCORPORATED IN BASES AND SIGN STRUCTURE. CONDUIT TO BE INSTALLED IN EACH BASE TO PROVIDE ELECTRICAL CONNECTION FROM EITHER SIDE OF ROADWAY.

REFERENCE ONLY

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
578	OVERHEAD TRAFFIC SIGN SUPPORT	L.S.	1	-	1	

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

TOWN OF DERBY

ROUTE NO. I 91 LOG STA. 3288+08

OVERHEAD TRAFFIC SIGN SUPPORT AT STA. 3288+08

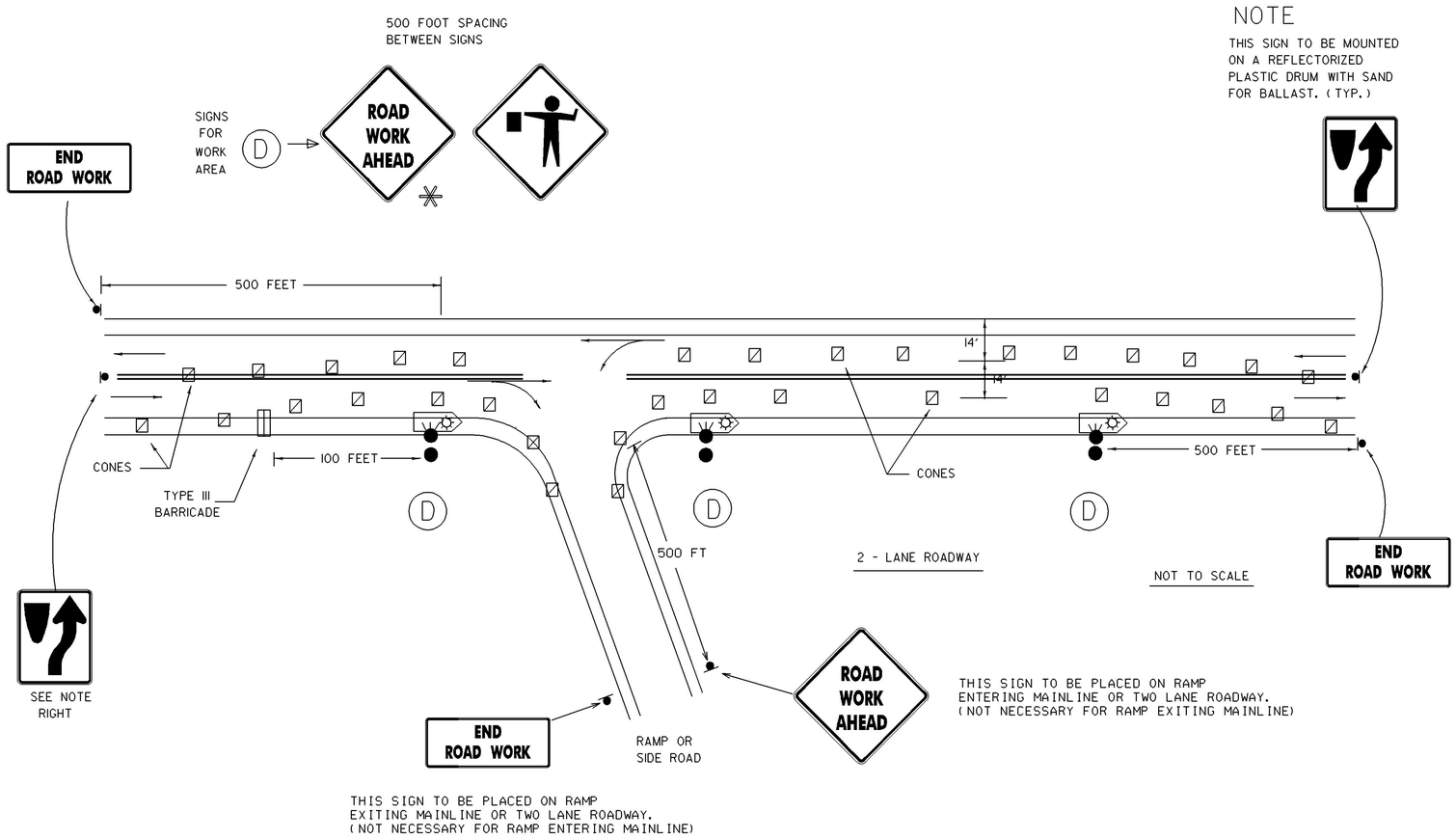
SCALE AS NOTED

SURVEYED BY DELAND

DRAWN BY W.M.S. CHECKED BY J.J.C.

PROJECT NO. I 91-3(3)

SHEET ~~82~~ 14 OF ~~87~~ 37



NOTE

THIS SIGN TO BE MOUNTED ON A REFLECTORIZED PLASTIC DRUM WITH SAND FOR BALLAST. (TYP.)

LEGEND

- EXISTING OR PROPOSED STREET LIGHT
- CONES, WORK AREA
- TYPE III BARRICADES, ALL ZONES
- WORK AREA, TRUCK W/ FLASHING BEACON

NOTES

1. FLAGPERSONS SHALL BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.
2. FOR SIGN AND CONE PLACEMENT AND SPACING REFER TO STANDARD SHEET E-110.
3. TWO PORTABLE SIGNS, ROAD WORK AHEAD, SHALL BE GATE POSTED NEAR THE RAMP ENTRANCE FOR ALL WORK DONE ALONG THAT RAMP.
4. ALL SIGNS FOR THIS PROJECT MAY BE PORTABLE, IF SO REMOVE DAILY.
5. A MINIMUM TRAVEL WIDTH OF 14 FEET SHALL BE MAINTAINED IN ALL WORK AREAS EXCEPT AS FOLLOWS:
   WHEN WORKING IN RAMP AREAS WHERE GUARD RAIL OR A CURBED MEDIAN ISLAND EXISTS, THE CONTRACTOR SHALL MAINTAIN A MINIMUM TRAVEL WIDTH OF 12 FEET.
6. AT SITE 3, FAIRLEE, IT WILL BE NECESSARY TO PLACE SIDE ROAD WORK APPROACH SIGNS ON US 5, EAST LAKE ROAD AND T-16. REFER TO STANDARD E-100A FOR SIGN PLACEMENT AND DETAILS.
7. SIGN DETAILS, SPECIFICATIONS AND CHANNELIZING DEVICE SPECIFICATIONS NOT SHOWN ON THIS SHEET CAN BE FOUND ON STANDARD SHEETS E-100, E-101, E-102, E-106, E-107, E-107A, AND E-110.
8. TAPERS SHALL NOT BEGIN IN THE MIDDLE OF CURVES, BUT SHALL BE EXTENDED BACKWARD TO A POINT WHERE IT IS VISIBLE TO APPROACHING TRAFFIC.
9. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED IN M.P.H. TANGENT SPACING BETWEEN DEVICES SHOULD NOT EXCEED TWO TIMES THE SPEED LIMIT IN FEET
10. TRAFFIC CONTROL DURING PLACEMENT OF ELECTRICAL CONDUIT SLEEVE: WHEN SLEEVE IS PLACED IN THE ROADWAY, ONE-WAY TRAFFIC WITH FLAGGER CONTROL SHALL BE MAINTAINED, AS PER STANDARD E-110. IF TWO-WAY TRAFFIC CONTROL IS ATTAINABLE, SUCH AS WHEN WIDE TRAVEL WAYS EXIST, THEN IT MAY BE USED - AT THE DISCRETION OF THE RESIDENT ENGINEER. (TWO-WAY TRAFFIC SHOULD BE ACCOMPLISHED SIMILAR TO TRAFFIC CONTROL METHODS SHOWN ON THIS SHEET. FOR SLEEVE PLACEMENT IN THE CENTER OF THE ROADWAY, TRAFFIC SHOULD BE DIVERTED TO THE SHOULDER).

/traf/94d290/ta290.dgn/ta2903J

PLOTTED:05-JUL-2001

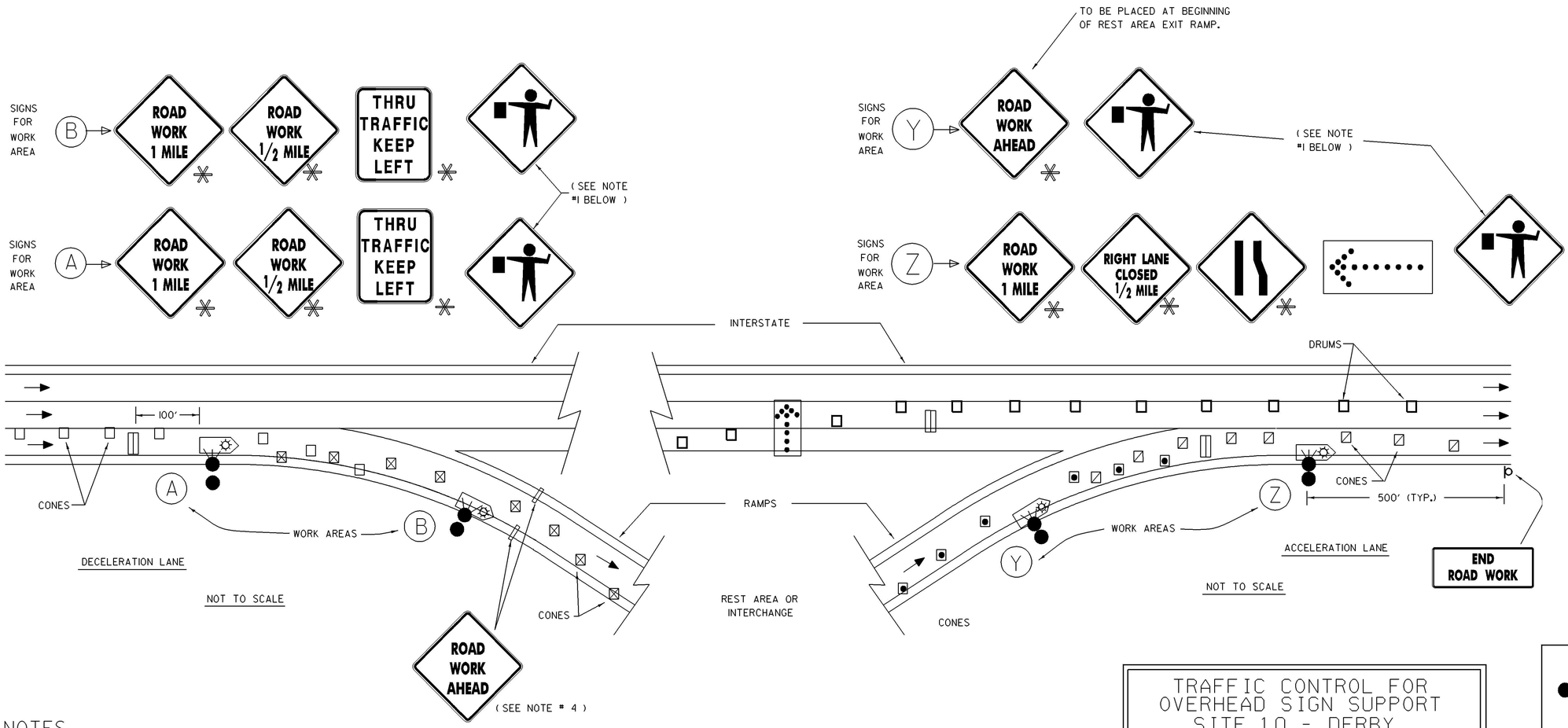
TWO-LANE ROADWAYS

TRAFFIC CONTROL SHEET

PREPARED BY RPD DATE 3-95
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 15 OF 37 SHEETS



NOTES

1. FLAGPERSONS SHALL BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER. IF NO FLAGPERSON IS PRESENT, THEN NO SIGN SHALL BE PLACED.
2. FOR SIGN AND CONE PLACEMENT AND SPACING REFER TO STANDARD E-110.
3. WORK IN WORK AREAS A/B AND Y/Z SHALL NOT OCCUR AT THE SAME TIME.
4. TWO PORTABLE ROAD WORK AHEAD SIGNS SHALL BE GATE POSTED NEAR THE BEGINNING OF THE ENTRANCE RAMP FOR ALL WORK DONE WITHIN THE REST AREA.
5. ALL SIGNS FOR THIS PROJECT MAY BE PORTABLE, IF SO REMOVE DAILY.
6. SIGN DETAILS, LOCATIONS, SPECIFICATIONS AND CHANNELIZING DEVICE SPECIFICATIONS NOT SHOWN ON THIS SHEET CAN BE FOUND ON STANDARD SHEETS E-100, E-101, E-102, E-106, E-107, E-107A, AND E-110.
7. TAPERS SHALL NOT BEGIN IN THE MIDDLE OF CURVES, BUT SHALL BE EXTENDED BACKWARD TO A POINT WHERE IT IS VISIBLE TO APPROACHING TRAFFIC.
8. WHEN WORK AREA IS ENTIRELY WITHIN THE REST AREA, CONES MAY BE USED AS THE CHANNELIZING DEVICE. CONES MAY ALSO BE USED AS THE CHANNELIZING DEVICE FOR WORK AREAS A, B, AND Y. HOWEVER, DRUMS SHALL BE USED AS THE CHANNELIZING DEVICE FOR WORK AREA Z, WITH LANE CLOSURE.
9. A MINIMUM TRAVEL WIDTH OF 14 FEET SHALL BE MAINTAINED IN ALL WORK AREAS EXCEPT AS FOLLOWS:
   WHEN WORKING IN RAMP AREAS WHERE GUARD RAIL OF A CURBED MEDIAN ISLAND EXISTS, THE CONTRACTOR SHALL MAINTAIN A MINIMUM TRAVEL WIDTH OF 12 FEET.
10. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED IN M.P.H. TANGENT SPACING BETWEEN DEVICES SHOULD NOT EXCEED TWO TIMES THE SPEED LIMIT IN FEET
11. WHEN THE PAVED AREA(S) WITHIN THE REST AREA HAVE TO BE EXCAVATED FOR THE PLACEMENT OF ELECTRICAL CONDUIT SLEEVE, TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

✳ — SIGN SO NOTED SHALL BE GATE POSTED

TRAFFIC CONTROL FOR OVERHEAD SIGN SUPPORT SITE 10 - DERBY

A. CHANNELIZING OF TRAFFIC SHALL BE AS PER STANDARD E-106 (MULTI LANE CLOSURE AT AN EXIT RAMP). THIS WILL ALLOW FOR A CRANE TO SIT IN THE TRAVEL LANE NEAR THE GORE AREA IN ORDER TO MOVE THE STRUCTURE. BARRELS SHALL BE USED AS CHANNELIZING DEVICES
B. TRAFFIC MAY CONTINUE TO PROCEED WHILE SET-UP FOR STRUCTURE REMOVAL/RESET IS IN PROGRESS (USING E-106 DETAIL).
C. WHEN THE STRUCTURE IS LIFTED OR SET (BY THE CRANE), TRAFFIC SHALL BE STOPPED BY UTO'S. AT THE ENGINEER'S DISCRETION, UTO'S MAY BE REQUIRED DURING SET-UP AS WELL.
D. TRAFFIC SHALL BE STOPPED FOR A MAXIMUM OF 10 MINUTES AT A TIME AND SHALL NOT BE STOPPED DURING PEAK TIMES OF 7-9 AM, AND 3-6 PM.
E. THE CONTRACTOR SHALL SUBMIT A PLAN FOR ACCOMPLISHING THIS WORK TO THE RESIDENT ENGINEER.
F. MINIMUM TRAVEL WIDTH OF 14 FEET SHALL BE MAINTAINED.
G. SEE NOTES 1, 5, 6, AND 10 ON THIS SHEET FOR FURTHER INFORMATION.

LEGEND

- EXISTING OR PROPOSED STREET LIGHT
- CONES, WORK AREA
- CONES, WORK AREA
- CONES, WORK AREA
- CONES, WORK AREA
- DRUMS, WORK AREA
- PORTABLE SIGN
- TYPE III BARRICADES, ALL ZONES
- WORK AREA, TRUCK W/ FLASHING BEACON
- FLASHING ARROW PANEL

ARCHIVED ON CADD

INTERSTATE LOCATIONS

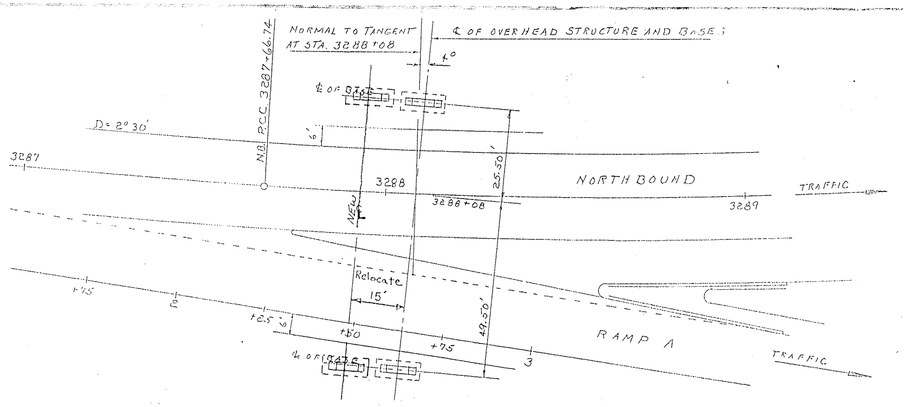
TRAFFIC CONTROL SHEET

PREPARED BY RPD DATE 1-95
MODIFIED BY EGF/PGJ DATE 4/97
DESIGN SUPERVISOR ABK DATE ____
PROJ.

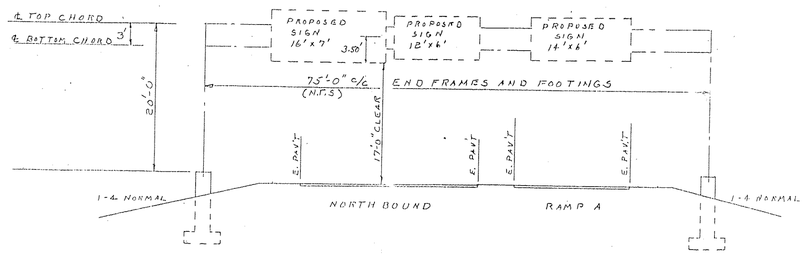
STATEWIDE IM LITE (6)

TRAFFIC SHEET NO. ____ OF ____
SHEET 16 OF 37 SHEETS

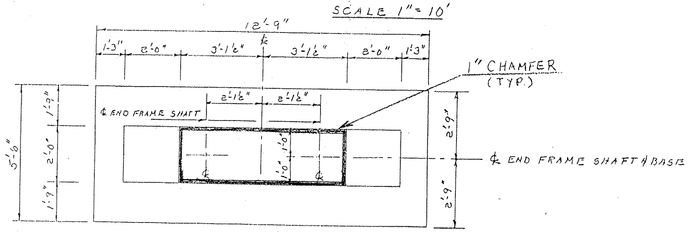
/traf/94o290/to290.dgn/to2904J
PLOTTED:05-JUL-2001



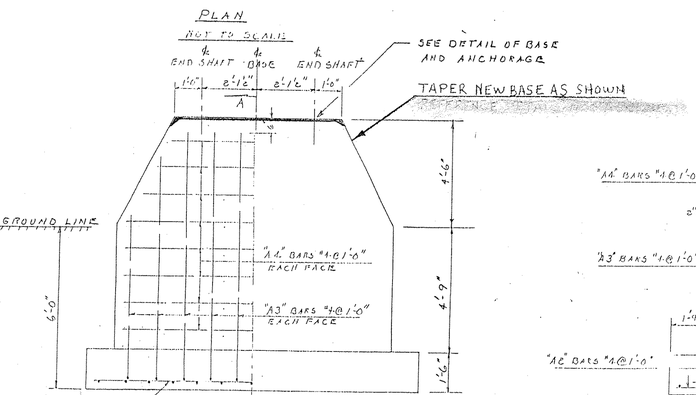
LOCATION PLAN
SCALE 1" = 20'



ELEVATION VIEW
SCALE 1" = 10'



PLAN
NOT TO SCALE



NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO AASHTO STD. SPECS FOR HIGHWAY BRIDGES, DATED 1992 AND LATEST REVISION, AND STATE OF VERMONT AGENCY OF TRANSPORTATION.

3. ALL CONCRETE SHALL BE CONCRETE CLASS B.

4. ALL REINFORCING STEEL SHALL BE ASSHTO M31, GRADE 60, EPOXY COATED.

5. FABRICATOR TO DESIGN AND TO SUPPLY (ONLY ONE) NEW ADEQUATE POLE BASE. ALLOWABLE STRESS FOR NEW BASE SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE ALUMINUM ASSOC. PUBLICATION 30 "SPECIFICATIONS FOR ALUMINUM STRUCTURES."

6. ANCHOR BOLTS :

FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED FOR EACH EXISTING POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL.
SEE SUB-SECTION 714.09.

7. SHOP DRAWINGS (6 COPIES OF EACH SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, STRUCTURES DIVISION FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. DETAIL DRAWING OF EACH COMPONENT OF THE STRUCTURE.

B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET) .

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8. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIALS BEING WELDED.

9. EACH OVERHEAD TRAFFIC SIGNAL/ SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF :
A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

B. A # 6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

C. A 5/8" X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITION GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6' .

10. BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GUAGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, GUAGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

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SEE STANDARD E-171A FOR ADDITIONAL NOTES.
12. REMOVAL OF EXISTING CONCRETE 1' BELOW EXISTING GROUND.
13. LEVEL SURFACE UNDER BASE PLATE.
14. EARTH MATERIAL FROM NEW STRUCTURE TO BE PLACED FOR OLD STRUCTURE TO FILL [illegible]

REINFORCING STEEL SCHEDULE

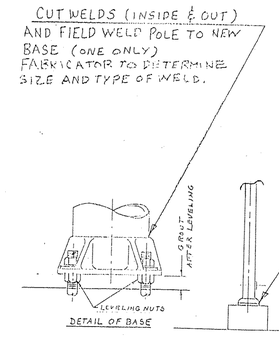
TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
"	12	#4	A2	12'-3"
4'-11" 1'-0"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

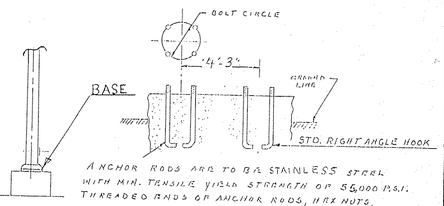
REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.

CUT WELDS (INSIDE & OUT) AND FIELD WELD POLE TO NEW BASE (ONE ONLY) FABRICATOR TO DETERMINE SIZE AND TYPE OF WELD.

THE CONTRACTOR, AT HIS OPTION MAY CHOOSE TO RETROFIT THE EXISTING BASE CASTING, OR PROVIDE A DIFFERENT BASE THAN THAT SHOWN.

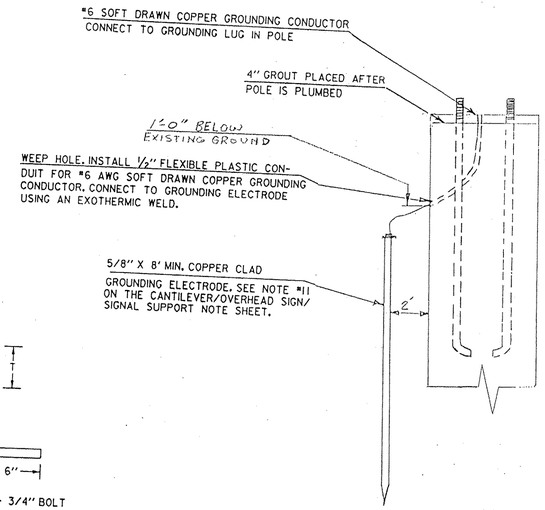


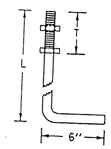
DETAIL OF BASE



ANCHOR RODS ARE TO BE STAINLESS STEEL WITH MIN. TENSILE YIELD STRENGTH OF 55,000 P.S.I. THREADED ENDS OF ANCHOR RODS, HEX NUTS, LEVELING NUTS, FLAT WASHERS, AND LOCK WASHERS SHALL BE PER SUBSECTION 714.09.

DETAIL OF ANCHORAGE





1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL

SIZE	L (IN)	T (IN)
1- 1/2" X 60"	54	9

	UNIT	NET	OVERRUN	TOTAL

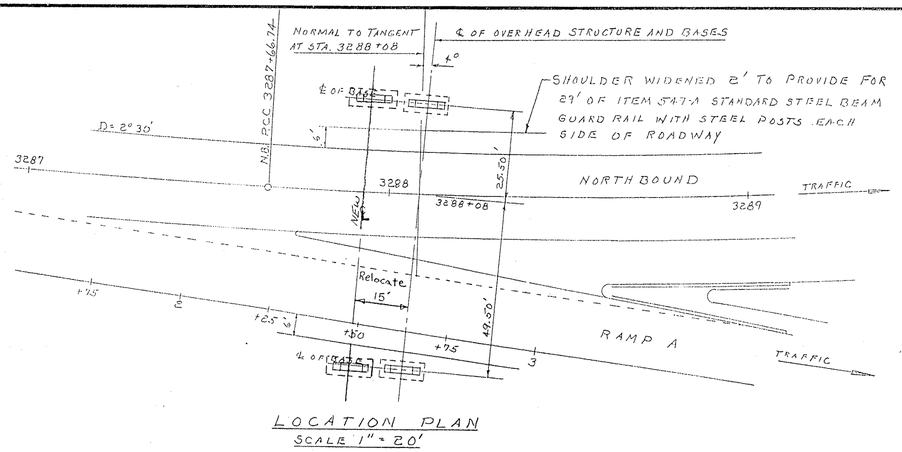
4-7-97

STATE OF VERMONT
AGENCY OF TRANSPORTATION

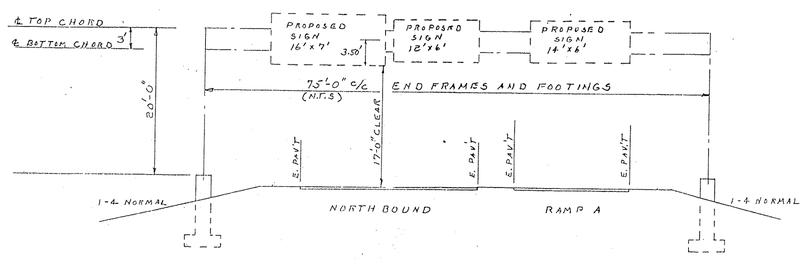
Town Of DERBY	Bridge No. V.B.
Highway No. I 91	Log Sta. 177+1089
	Surv. Sta. 3287+93

OVERHEAD TRAFFIC SIGN SUPPORT

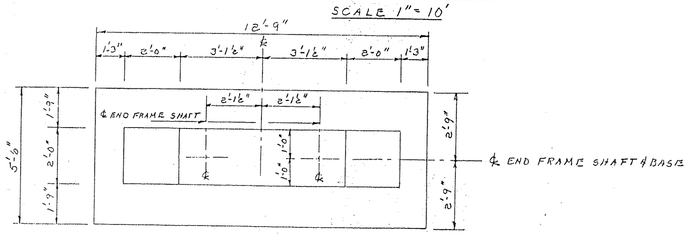
Designed By SHF	Drawn By SHF
Checked By JHWEAVER Date 6 28 96	Bridge Design Supervisor JH WEAVER Date 6 28 96
PROJECT STATEWIDE	PROJECT NO. IM LITE (6)
I.G.C. Info.	
Bridge Sheet No.	Sheet 19 of 31



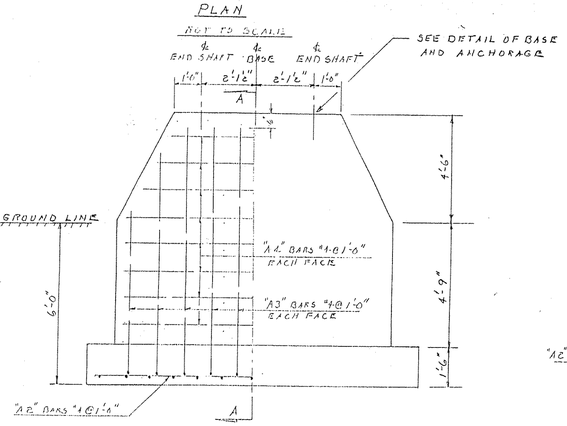
LOCATION PLAN
SCALE 1" = 20'



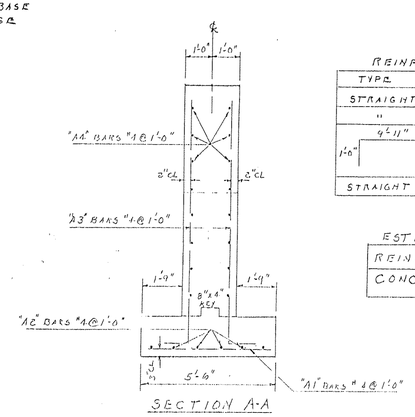
ELEVATION VIEW
SCALE 1" = 10'



PLAN
NOT TO SCALE



ELEVATION VIEW OF BASE
SCALE 3/8" = 1'-0"



SECTION A-A
NOT TO SCALE

NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO AASHTO STD. SPECS FOR HIGHWAY BRIDGES, DATED 1992 AND LATEST REVISION,AND STATE OF VERMONT AGENCY OF TRANSPORTATION.

3. ALL CONCRETE SHALL BE CONCRETE CLASS B.

4. ALL REINFORCING STEEL SHALL BE ASSHTO M31, GRADE 60.

5. FABRICATOR TO DESIGN AND TO SUPPLY (ONLY ONE) NEW ADEQUATE POLE BASE. ALLOWABLE STRESS FOR NEW BASE SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE ALUMINUM ASSOC. PUBLICATION 30 "SPECIFICATIONS FOR ALUMINUM STRUCTURES."

6. ANCHOR BOLTS :

FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED FOR EACH EXISTING POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL.
SEE SUB-SECTION 714.09.

7. SHOP DRAWINGS (6 COPIES OF EACH SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, STRUCTURES DIVISION FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. DETAIL DRAWING OF EACH COMPONENT OF THE STRUCTURE.

B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET) .

D. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWING. (SEE SUBSECTION 506.10).

8. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIALS BEING WELDED.

9. EACH OVERHEAD TRAFFIC SIGNAL/ SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF :
A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

B. A # 6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

C. A 5/8"X 8'(MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITION GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6'.

10. BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GUAGE AND THE HORIZONTAL MEMBER DIAMETER,LENGTH, YIELD STRENGTH, GUAGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

11. INSTALL NEW FOOTINGS AND PEDESTALS BEFORE CRANE COMES SO WHEN THE CRANE IS ON THE PROJECT TO LIFT TRAFFIC BRIDGE SIGN TO BE REPAIRED IT CAN RESET ON NEW PEDESTALS DIRECTLY TO MINIMIZE CRANE COSTS.

SEE STANDARD E-171A FOR ADDITIONAL NOTES.

REINFORCING STEEL SCHEDULE

TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
"	12	#4	A2	12'-3"
4'-11" 1'-0"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.

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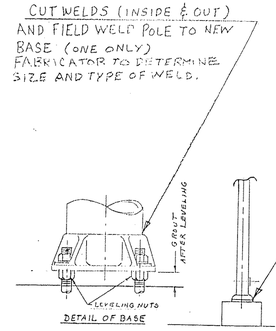
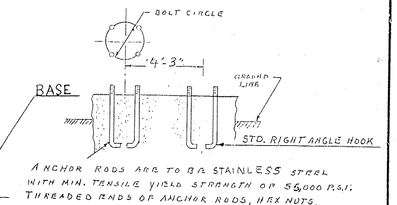
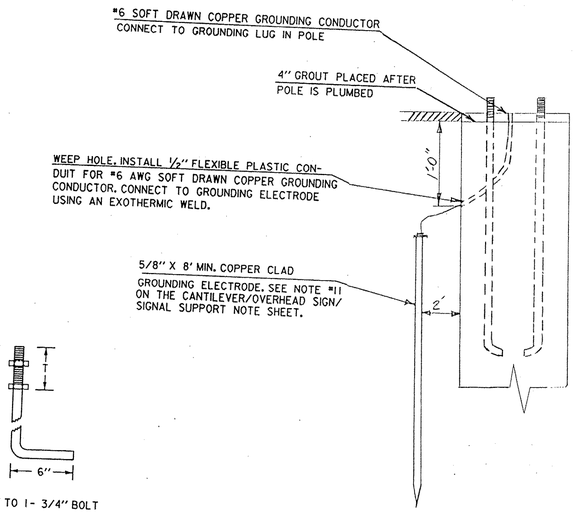


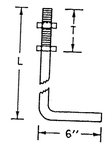
DETAIL OF BASE



ANCHOR RODS ARE TO BE STAINLESS STEEL WITH MIN. TENSILE YIELD STRENGTH OF 55,000 P.S.I. THREADED ENDS OF ANCHOR RODS, HEX NUTS, LEVELING NUTS, FLAT WASHERS, AND LOCK WASHERS SHALL BE PER SUBSECTION 714.09.

DETAIL OF ANCHORAGE





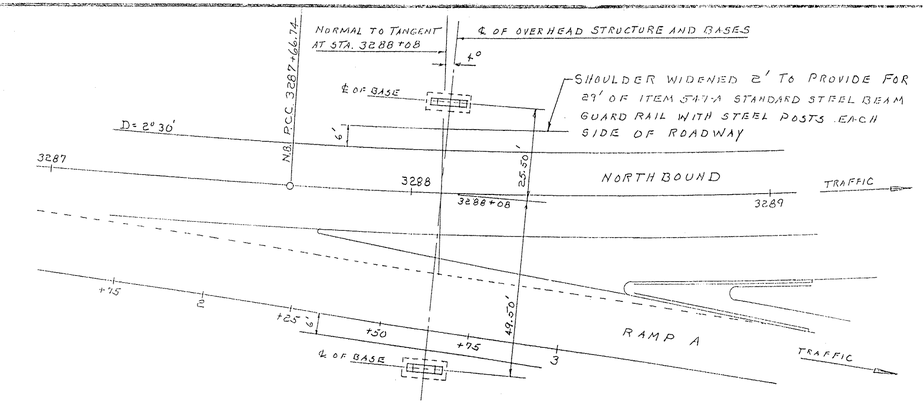
1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/2" X 60"	54	9

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL
677.25	REMOVE AND RESET TRAFFIC SIGN SUPPORT	L.S.	1	-	1

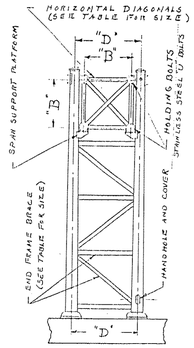
STATE OF VERMONT
AGENCY OF TRANSPORTATION

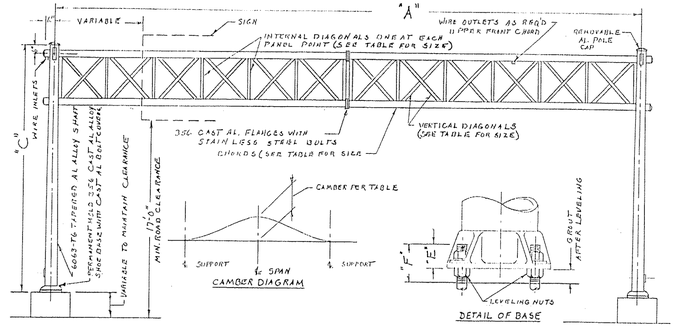
Town Of DERBY	Bridge No. N.B.
Highway No. I 91	Log Sta. 177+1089
	Surv. Sta. 3287+93
OVERHEAD TRAFFIC SIGN SUPPORT	
Designed By SHF	Drawn By SHF
Checked By JHWEAVER Date 6 28 96	Bridge Design Supervisor JH WEAVER Date 6 28 96
PROJECT STATEWIDE	PROJECT NO. I M LITE (6)
I.G.C. Info.	
Bridge Sheet No.	Sheet of



LOCATION PLAN

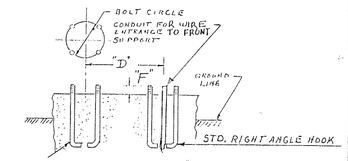
SCALE 1" = 20'





TYPICAL ALUMINUM BOX TRUSS SIGN SPAN

No SCALE



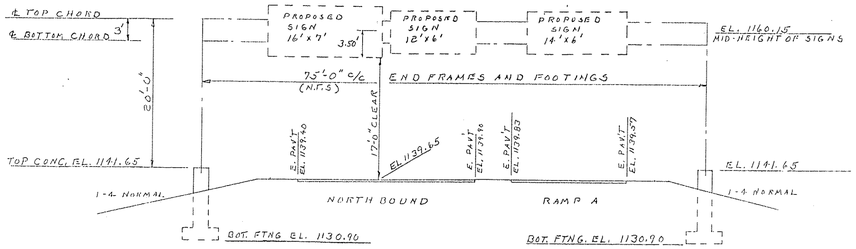
STD. RIGHT ANGLE HOOK

ANCHOR RODS ARE TO BE HOT ROLLED STEEL WITH MIN. TENSILE YIELD STRENGTH OF 50,000 P.S.I. THREADED ENDS OF ANCHOR RODS, HEX NUTS, LEVELING NUTS, FLAT WASHERS, AND LOCK WASHERS TO BE HOT DIPPED GALVANIZED.

DETAIL OF ANCHORAGE

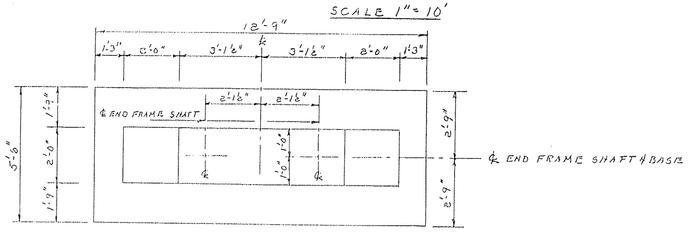
DATA FOR ABOVE ALUMINUM BOX TRUSS SIGN SPAN TO CARRY 300 SQUARE FEET OF SIGNS

A	B	C	D	E	F	SPAN SECTIONS REQ'D	CHORD SIZE	END FRAME SHAFT SIZE AND TAPER	VERTICAL DIAGONAL SIZE	HORIZONTAL DIAGONAL SIZE	INTERNAL DIAGONAL SIZE	END FRAME BRACE SIZE	CAMBER	BOLT CIRCLE DIA.	ANCHORAGE
75'-0"	3'-0"	21'-6"	4'-3"	3¼"	5¼"	3	4¾" O.D. .188 WALL	10"x 7"x.250 WALL	1.660" O.D. .140 WALL	1.900" O.D. .145 WALL	1.900" O.D. .145 WALL	2½" O.D. .188 WALL	2¼"	16"	1½" DIA. X 48" L.G.



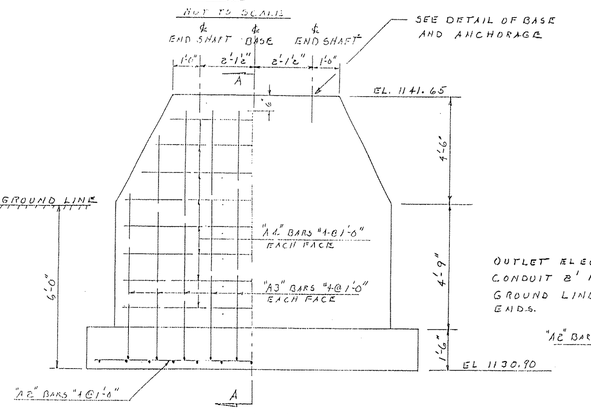
ELEVATION VIEW

SCALE 1" = 10'



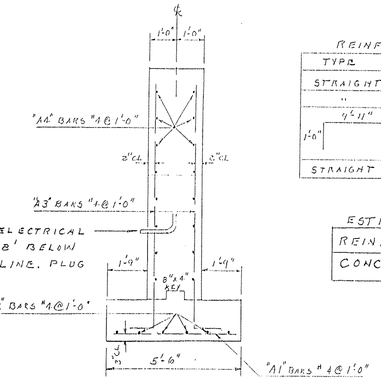
PLAN

NOT TO SCALE



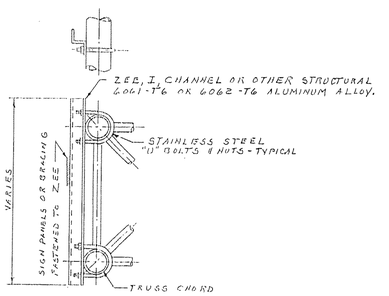
ELEVATION VIEW OF BASE

SCALE 3/8" = 1'-0"



SECTION A-A

NOT TO SCALE



TYPICAL SIGN HANGERS

No SCALE

NOTE CONTRACTOR TO SUBMIT DETAILED DRAWINGS OF SIGN HANGERS FOR APPROVAL OF THE ENGINEER.

REINFORCING STEEL SCHEDULE

TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
" 1'-0" 9'-11"	12	#4	A2	12'-3"
" 1'-0"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.

NOTES

ALL WORK AND MATERIALS TO CONFORM TO STATE OF VERMONT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED JANUARY 1956. DESIGN PROCEDURES, FABRICATION, AND CONSTRUCTION OF SIGN STRUCTURE SHALL BE IN ACCORDANCE WITH PAPER 970, OF THE A.S.C.E. JOURNAL OF THE STRUCTURAL DIVISION, MAY 1956. ALLOWABLE STRESSES IN ALUMINUM ALLOYS SHALL BE THE LATEST STRESSES APPROVED BY THE U.S. BUREAU OF PUBLIC ROADS. DESIGN DATA FROM THE FOLLOWING PAPERS IS ACCEPTABLE: PAPER 2528 "DESIGN OF WELDED ALUMINUM STRUCTURES," JUNE 1960; PAPER 2581 "STRENGTH OF WELDED ALUMINUM COLUMNS," AUGUST, 1960.

NO FIELD WELDING OF ALUMINUM SHALL BE PERMITTED.

STRUCTURE DESIGNED FOR WIND LOAD ON SIGNS OF 30 POUNDS PER SQUARE FOOT.

FOUNDATION DESIGNED FOR ONE TON PER SQUARE FOOT.

THE ABOVE TYPICAL ALUMINUM BOX TRUSS SIGN SPAN IS DRAWN TO SHOW DETAILS DESIRED IN THE STRUCTURE. AN EQUIVALENT ALUMINUM TYPE STRUCTURE MAY BE SUBSTITUTED WITH SUBMITTAL OF DRAWINGS AND APPROVAL OF THE ENGINEER. END FRAME SHAFTS ARE TO BE TAPERED.

ALL MATERIAL IN BOX TRUSS TO BE 6061-T6 OR 6062-T6 ALUMINUM ALLOY UNLESS OTHERWISE SPECIFIED. END FRAME SHAFTS TO BE 6063-T6 ALUMINUM ALLOY.

CONCRETE TO BE AS SPECIFIED UNDER ITEM 401-B CLASS B CONCRETE, MOD.

REINFORCING STEEL TO BE AS SPECIFIED UNDER ITEM 402 REINFORCING STEEL.

PROVISIONS FOR FUTURE LIGHTING OF SIGN TO BE INCORPORATED IN BASES AND SIGN STRUCTURE. CONDUIT TO BE INSTALLED IN EACH BASE TO PROVIDE ELECTRICAL CONNECTION FROM EITHER SIDE OF ROADWAY.

REFERENCE ONLY

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
578	OVERHEAD TRAFFIC SIGN SUPPORT	L.S.	1	–	1	

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

TOWN OF DERBY

ROUTE NO. I 91 LOG STA. 3288+08

OVERHEAD TRAFFIC SIGN SUPPORT AT STA. 3288+08

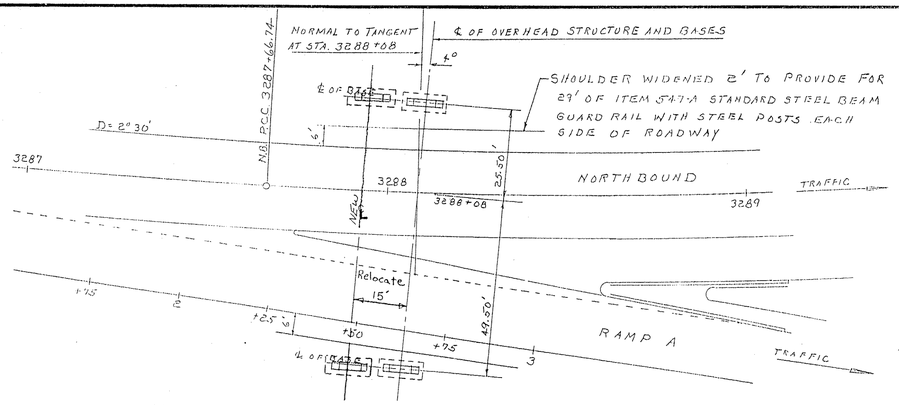
SCALE AS NOTED

SURVEYED BY DIELAND

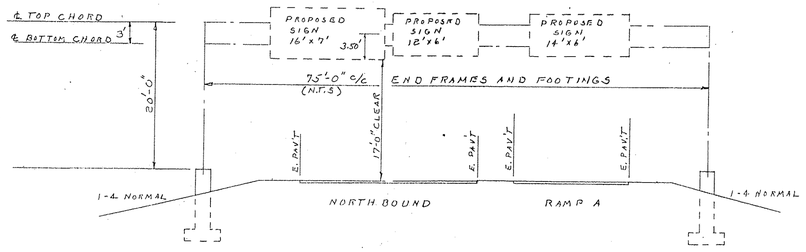
DRAWN BY W.M.S. CHECKED BY J.J.C.

PROJECT NO. I 91-3(3)

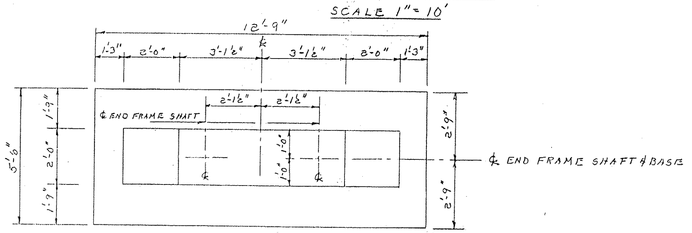
SHEET 82 OF 244



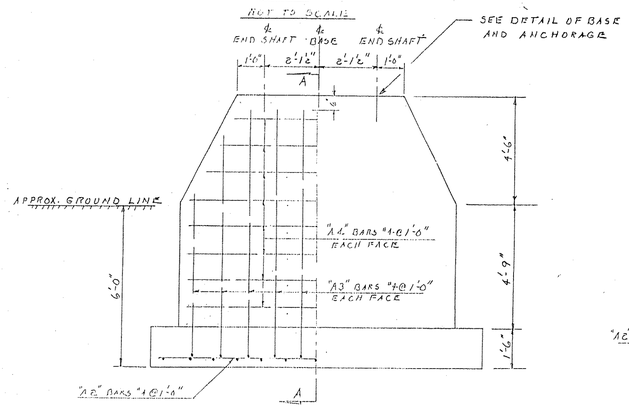
LOCATION PLAN
SCALE 1" = 20'



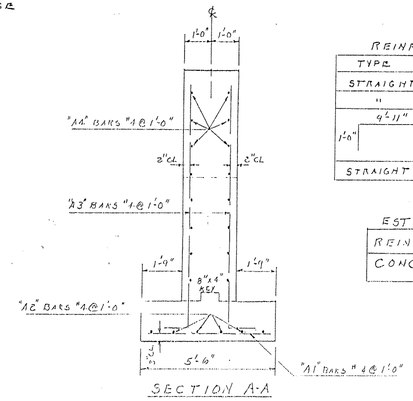
ELEVATION VIEW
SCALE 1" = 10'



PLAN
NOT TO SCALE



ELEVATION VIEW OF BASE
SCALE 3/4" = 1'-0"



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5. FABRICATOR TO DESIGN AND TO SUPPLY (ONLY ONE) NEW ADEQUATE POLE BASE. ALLOWABLE STRESS FOR NEW BASE SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE ALUMINUM ASSOC. PUBLICATION 30 "SPECIFICATIONS FOR ALUMINUM STRUCTURES."

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CONCRETE CLASS "B"	21 C.Y.

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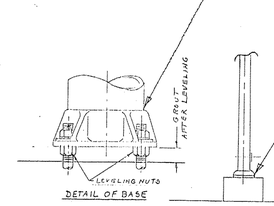
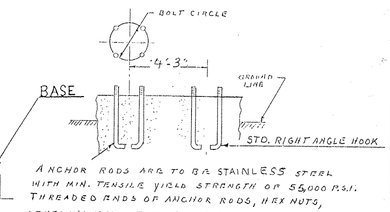


DETAIL OF BASE



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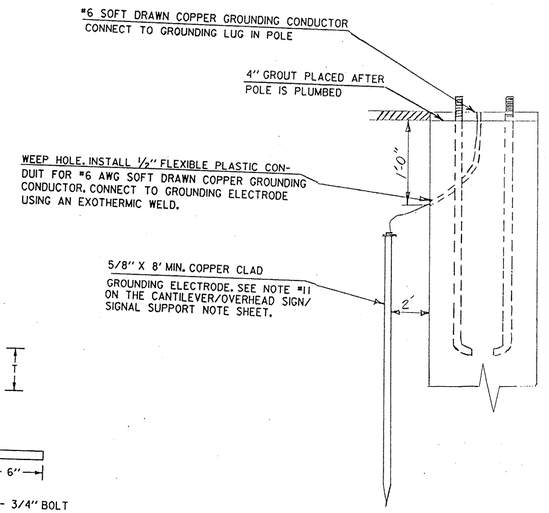
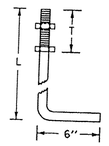
DETAIL OF ANCHORAGE





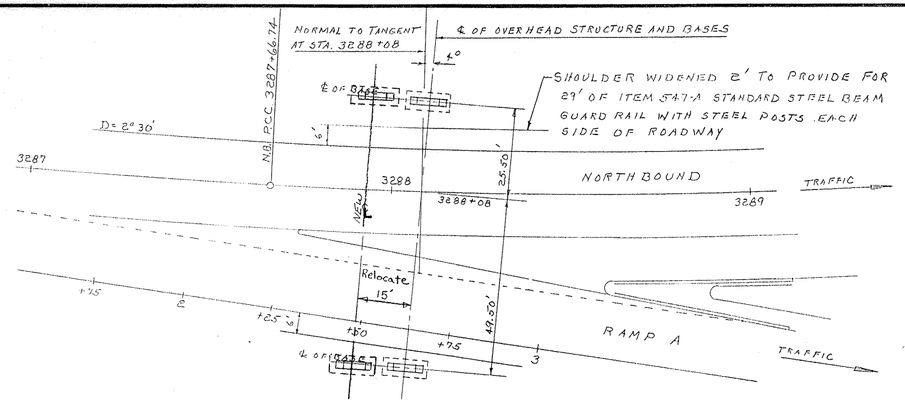
1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/2" X 60"	54	9

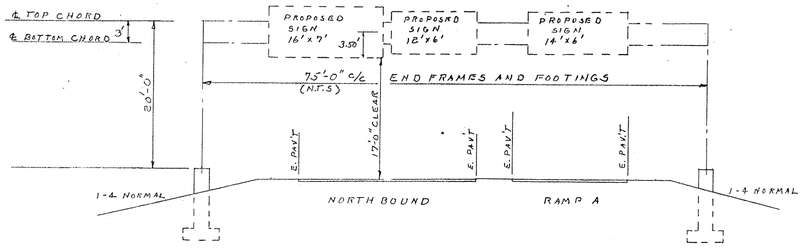
ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL
677.25	REMOVE AND RESET TRAFFIC SIGN SUPPORT	L.S.	1	-	1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

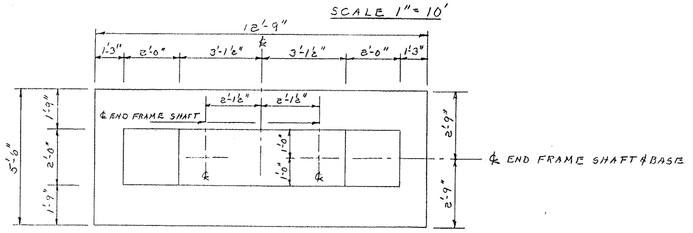
Town Of DERBY	Bridge No. NB.
Highway No. I 91	Log Sta. 177+1089
	Surv. Sta. 3287+93
OVERHEAD TRAFFIC SIGN SUPPORT	
Designed By SHF	Drawn By SHF
Checked By JHWEAVER Date 6 28 96	Bridge Design Supervisor JH WEAVER Date 6 28 96
PROJECT STATEWIDE	PROJECT NO. IM LITE (6)
I.G.C. Info.	
Bridge Sheet No.	Sheet of

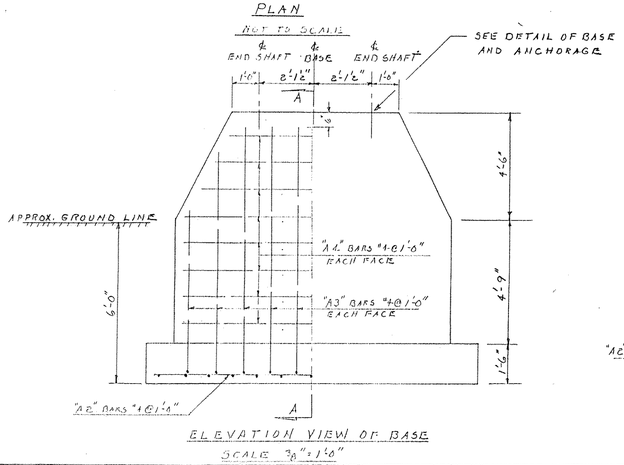


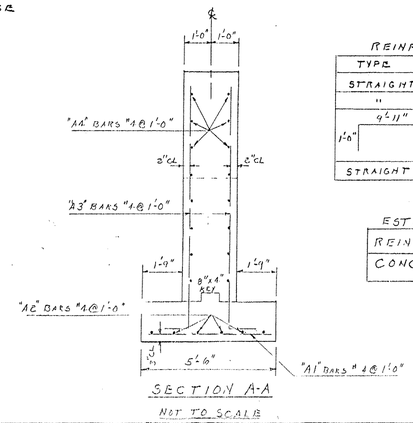
LOCATION PLAN
SCALE 1" = 20'



ELEVATION VIEW
SCALE 1" = 10'







NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO AASHTO STD. SPECS FOR HIGHWAY BRIDGES, DATED 1992 AND LATEST REVISION,AND STATE OF VERMONT AGENCY OF TRANSPORTATION.

3. ALL CONCRETE SHALL BE CONCRETE CLASS B.

4. ALL REINFORCING STEEL SHALL BE ASSHTO M31, GRADE 60.

5. FABRICATOR TO DESIGN AND TO SUPPLY (ONLY ONE) NEW ADEQUATE POLE BASE. ALLOWABLE STRESS FOR NEW BASE SHALL BE DETERMINED IN ACCORDANCE WITH THE PROVISIONS OF THE ALUMINUM ASSOC. PUBLICATION 30 "SPECIFICATIONS FOR ALUMINUM STRUCTURES."

6. ANCHOR BOLTS :

FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED FOR EACH EXISTING POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL.
SEE SUB-SECTION 714.09.

7. SHOP DRAWINGS (6 COPIES OF EACH SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, STRUCTURES DIVISION FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. DETAIL DRAWING OF EACH COMPONENT OF THE STRUCTURE.

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8. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIALS BEING WELDED.

9. EACH OVERHEAD TRAFFIC SIGNAL/ SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF :
A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

B. A # 6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

C. A 5/8" X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITION GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6' .

10. BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GUAGE AND THE HORIZONTAL MEMBER DIAMETER,LENGTH, YIELD STRENGTH, GUAGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

11. INSTALL NEW FOOTINGS AND PEDESTALS BEFORE CRANE COMES SO WHEN THE CRANE IS ON THE PROJECT TO LIFT TRAFFIC BRIDGE SIGN TO BE REPAIRED IT CAN RESET ON NEW PEDESTALS DIRECTLY TO MINIMIZE CRANE COSTS.

SEE STANDARD E-171A FOR ADDITIONAL NOTES.

REINFORCING STEEL SCHEDULE

TYPE	NO.	SIZE	BAR	TOT. LENGTH
STRAIGHT	26	#4	A1	5'-0"
"	12	#4	A2	12'-3"
1'-0" 4'-11"	40	#4	A3	10'-11"
STRAIGHT	32	#4	A4	9'-9"

ESTIMATED QUANTITIES TWO BASES

REINFORCING STEEL	685 LBS.
CONCRETE CLASS "B"	21 C.Y.

CUT WELDS (INSIDE & OUT) AND FIELD WELD POLE TO NEW BASE (ONE ONLY) FABRICATOR TO DETERMINE SIZE AND TYPE OF WELD.

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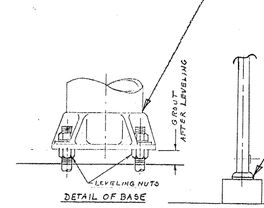
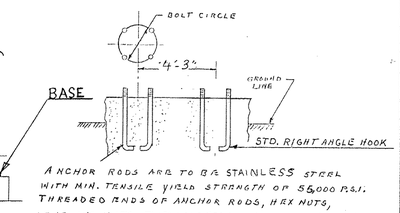


DETAIL OF BASE



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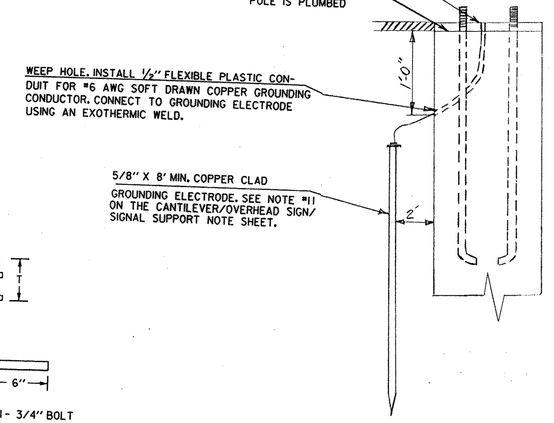
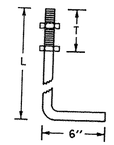
DETAIL OF ANCHORAGE





1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/2" X 60"	54	9

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL
677.25	REMOVE AND RESET TRAFFIC SIGN SUPPORT	L.S.	1	-	1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of DERBY	Bridge No. NB.
Highway No. I 91	Log Sta. 177+1089
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OVERHEAD TRAFFIC SIGN SUPPORT	
Designed By SHF	Drawn By SHF
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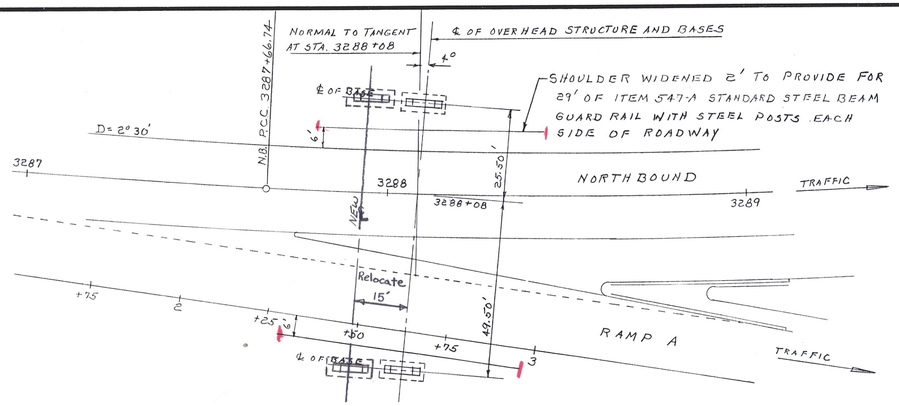
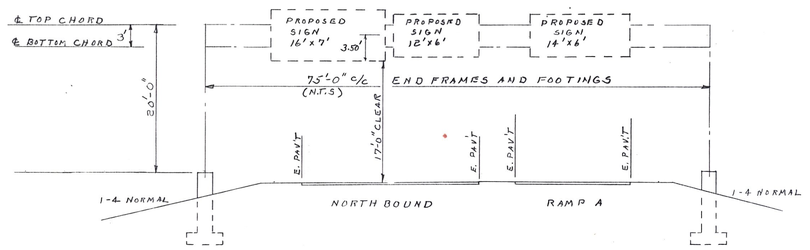


LOCATION PLAN
SCALE 1" = 20'



ELEVATION VIEW
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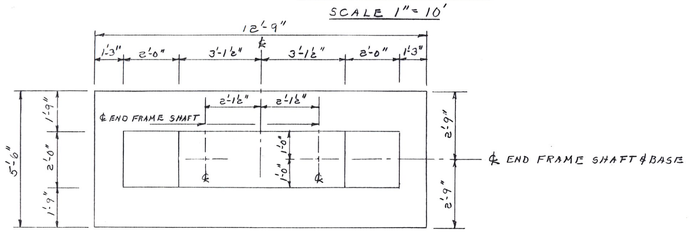
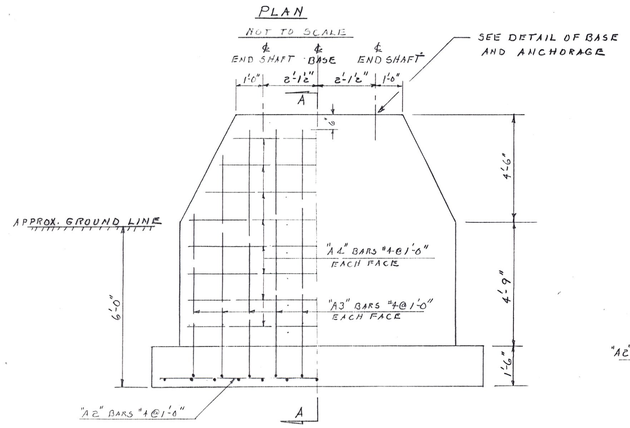
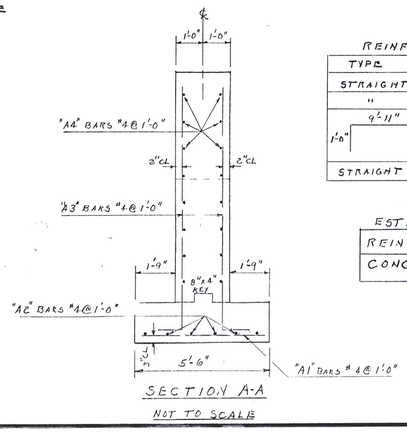


PLAN
NOT TO SCALE



ELEVATION VIEW OF BASE
SCALE 3/8" = 1'-0"



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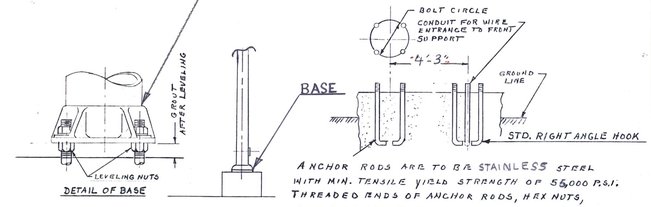

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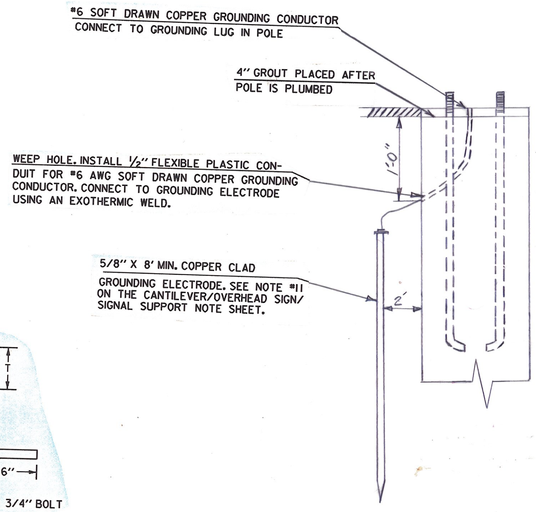

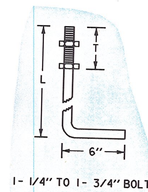

1- 1/4" TO 1- 3/4" BOLT

ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/4" X 48"	42	8
1- 1/2" X 60"	54	9
1- 3/4" X 90"	84	9

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL
677.25	REMOVE AND RESET TRAFFIC SIGN SUPPORT	L.S.	1	-	1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of DERBY	Bridge No. N.B.
Highway No. I 91	Log Sta. 177+1089
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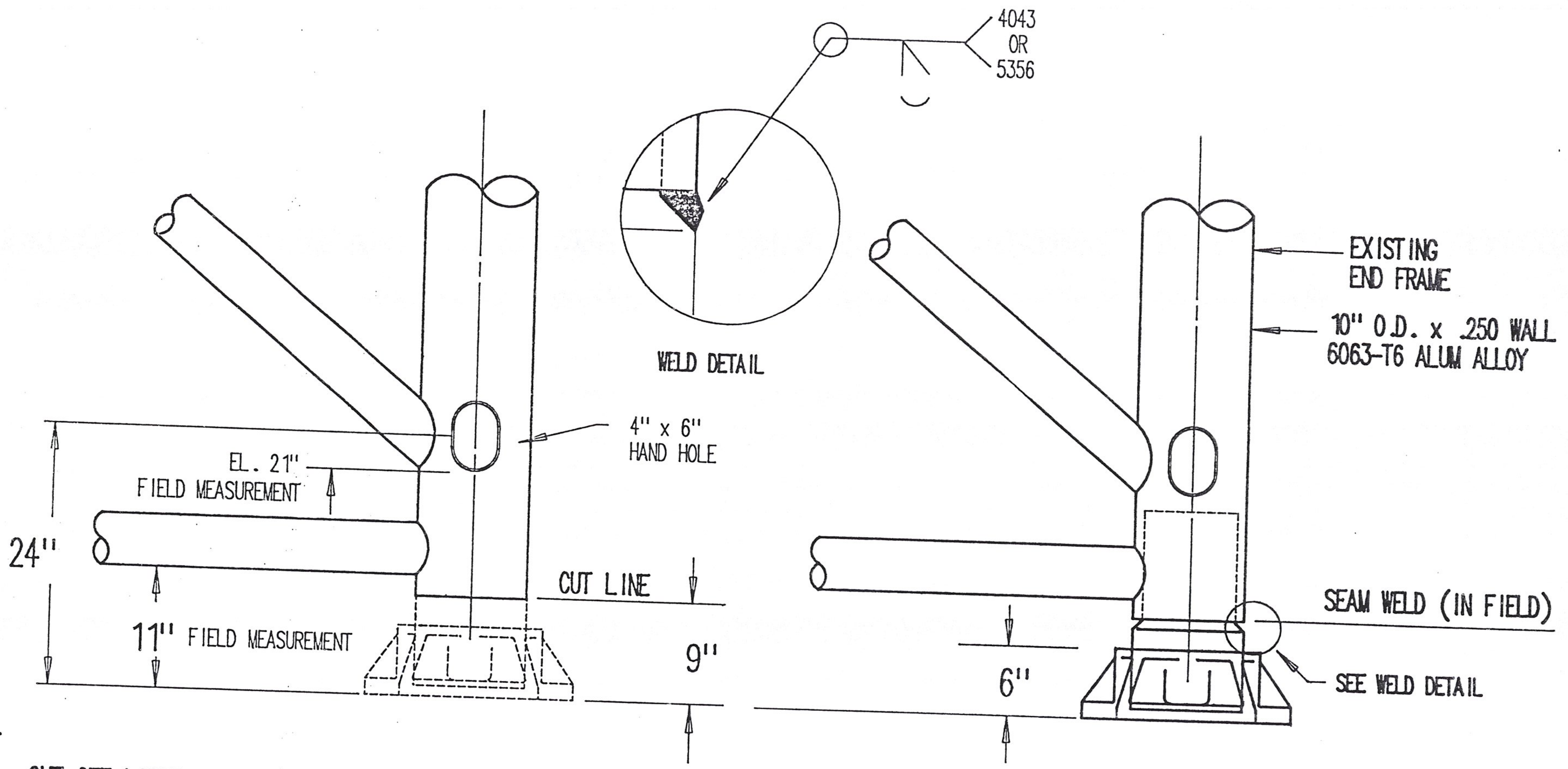
Designed By SHF	Drawn By SHF
Checked By JHWEAVER Date 6 28 96	Bridge Design Supervisor JH WEAVER Date 6 28 96
PROJECT STATEWIDE	PROJECT NO. IM LITE (6)
L.C.C. Info.	
Bridge Sheet No.	Sheet 1 of 1



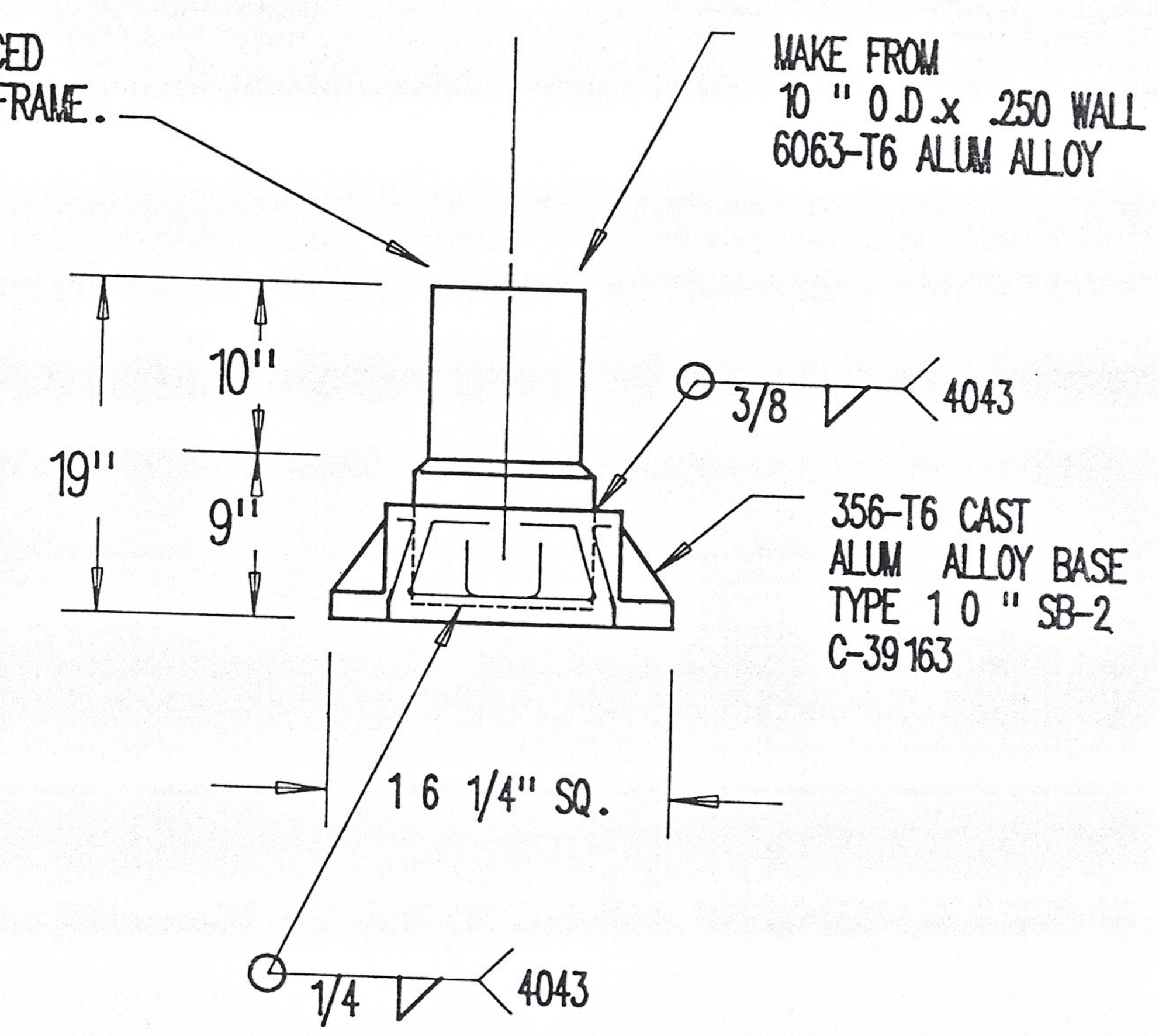
NOTE:

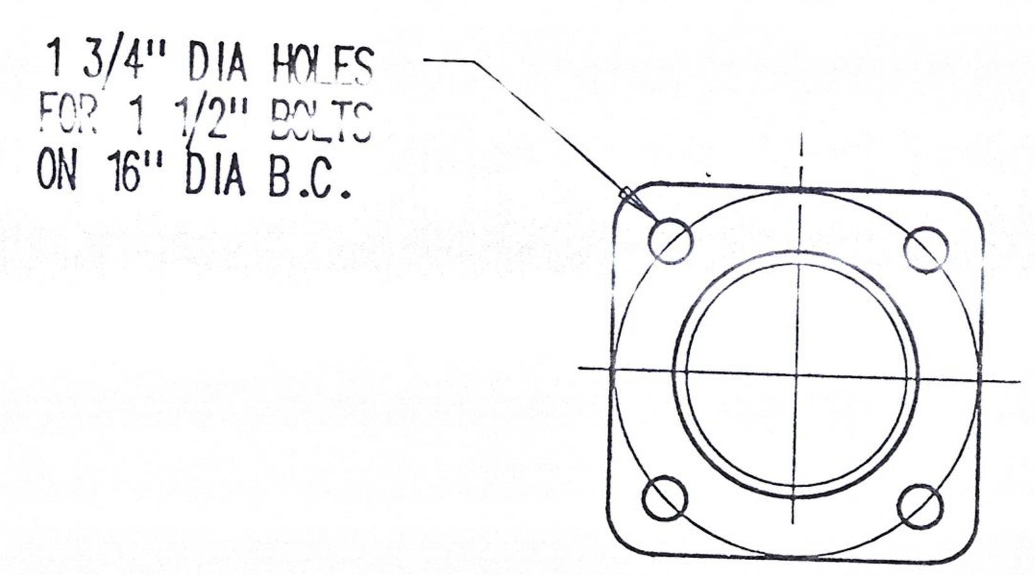
1. - CUT OFF LOWER SECTION OF END FRAME. 9" FROM BOTTOM OF BASE.
2. - PREPARE (CLEAN WELD SURFACES PRIOR TO WELDING.)
3. - INSERT STUB ASSEMBLY.
4. - ORIENT BASE BOLT HOLES.
5. - WELD SEAM.

TO FIT I.D.
OF END FRAME SHAFT

STUB ASSEMBLY

FABRICATED & WELDED AT FACTORY. HEAT TREATED AFTER WELDING FOR MAXIMUM MECHANICAL PROPERTIES.





DO NOT SCALE DRAWING

ALT.	DESCRIPTION	DATE	BY	CK
A.	CHANGES PER FIELD MEASUREMENTS	2-2-98	CRB	

MATERIAL

STOCK SIZE

FINISH OR TEMPER

UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE: DECIMALS ± FRACTIONS ± ANGLES ±

CUSTOMER

TITLE: VERMONT SIGN SPAN FIELD REPAIR

P&K POLE PRODUCTS
64 Foundry St., Newark, N.J.

P&K

DR W.J.S. 01-21-98
CH C.R.B. 01-21-98
APP

SCALE 1" = 10"

DWG NO. C-108580

REV. A

Structure Copy

RECEIVED
DATE REC'D BY SHF
... 19 1998
APPROVED
DATE 2/19/98