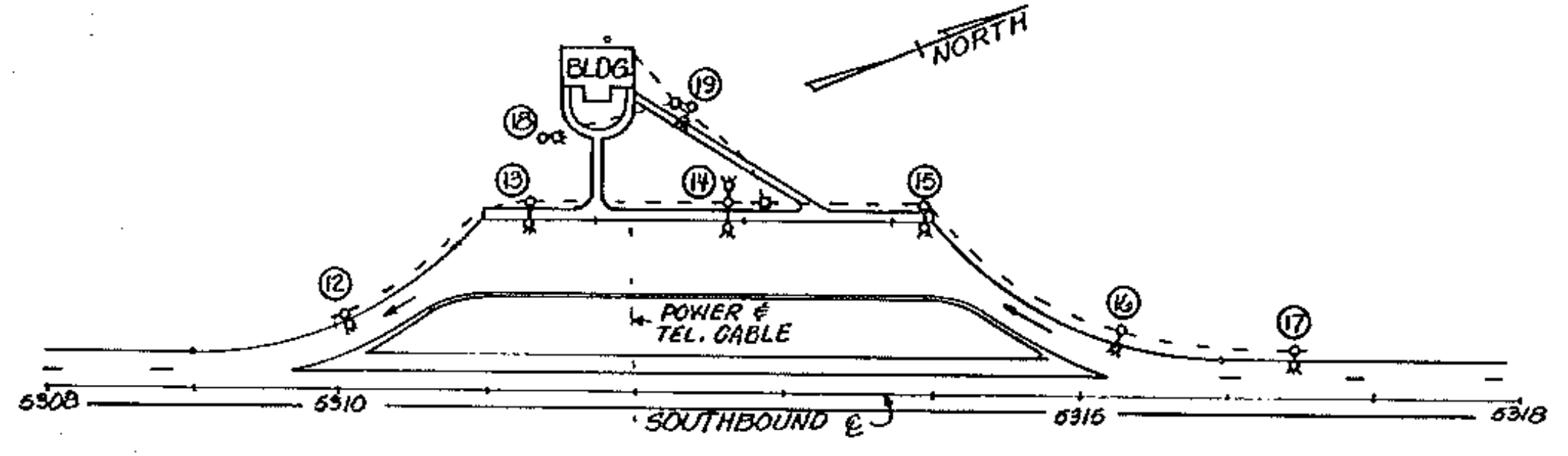


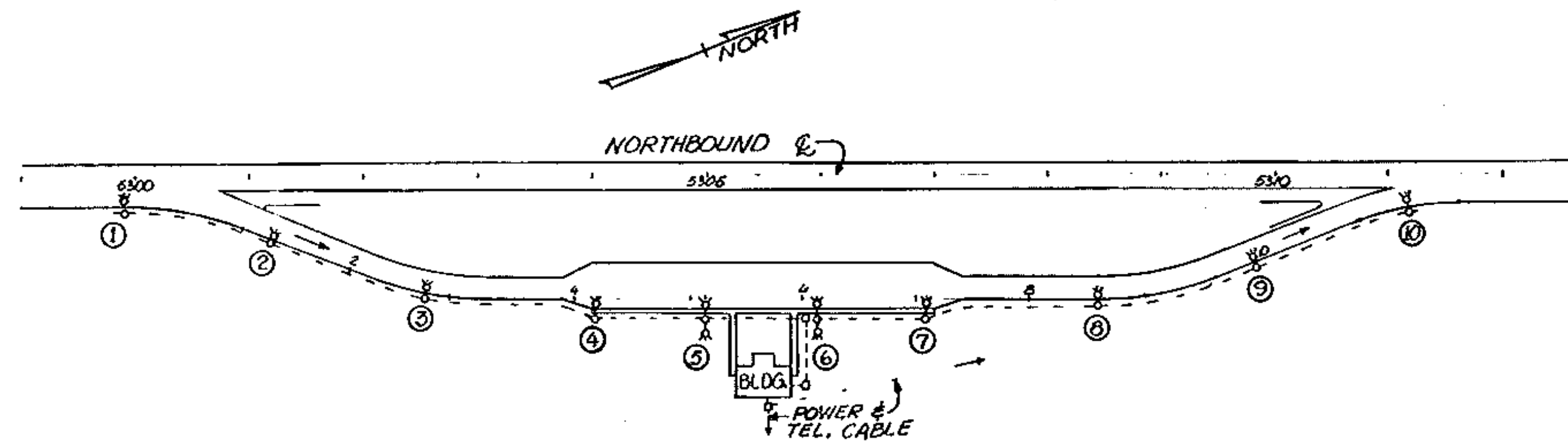
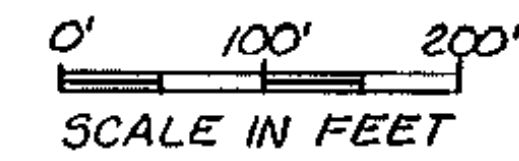
LEGEND: BLACK OR WHITE (NON-REFL.) - STAMPED PRIOR TO PAINTING.
BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, SAME AS POLE FINISH.

- 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. STAMPING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS. THE PHOTO-ETCHING WOULD NOT PENETRATE 1/2 THE BASE MATERIAL THICKNESS.
 3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.

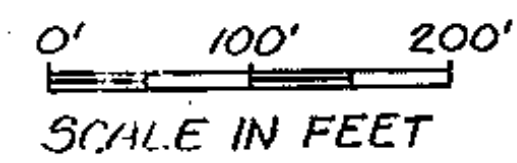
DETAILS FOR TAGS ATTACHED TO STREET LIGHT POLES.



BRADFORD S.B. REST AREA



BRADFORD N.B. REST AREA



WORK TO BE PERFORMED BY THE CONTRACTOR
THE CONTRACTOR SHALL:

1. PERFORM AN INSULATION TEST ON EXISTING NON-GROUNDED CONDUCTORS (INCLUDING NEUTRAL). IF READING IS AROUND ONE MEGOHM OR LESS, A) LOCATE BAD SEGMENT. B) CONTACT TRAFFIC AND SAFETY SECTION WITH THE READINGS ON THE REST OF CIRCUITRY FOR A DETERMINATION FOR EXTENT OF REPLACEMENT OF WIRING AND/OR CONDUIT.
2. PERFORM A RESISTANCE TO GROUND TEST AT SPECIFIED GROUNDS, 25 OHMS OR LESS ACCEPTABLE.
3. FURNISH THE TRAFFIC AND SAFETY SECTION VIA THE RESIDENT ENGINEER, INSULATION TEST READINGS ON THE EXISTING AND NEW (IF REQUIRED) ELECTRICAL SYSTEM, RESISTANCE TO GROUND READINGS AT SPECIFIED GROUNDS, VOLTAGE READINGS AT CIRCUIT BREAKERS AND IF CIRCUIT LENGTH IS OVER 1000 FEET IN LENGTH FURNISH A VOLTAGE READING (WITH FULL LOAD) AT END OF CIRCUITS.
4. DISCONNECT AND REMOVE EXISTING LUMNAIRES, INSTALL NEW LUMNAIRES AS PER PLAN, STOCKPILE OLD LUMNAIRES FOR PICK UP BY DISTRICT FORCES.
5. REPAIR OR REPLACE ANY FAULTY MATERIAL WHICH MAY HAMPER THE SAFETY OR OPERATION OF THE COMPLETED LIGHTING SYSTEM.
6. REPLACE BOLT AND HANDHOLE COVERS AND STAINLESS STEEL HARDWARE AS REQUIRED, FOR POLES AND PULLBOXES.
7. PLUMB EXISTING POLES AS REQUIRED USING STAINLESS STEEL OR GALVANIZED STEEL SHIMS.
8. INSTALL METAL TAGS TO THE EXISTING POLES WITH INFORMATION AS INDICATED IN THE NOTES.
9. AT POLE LOCATION #1, 8 AND 10, INSTALL NEW POLES, 8 FOOT ARMS, LUMNAIRES AND OTHER RELATED EQUIPMENT. NEW POLES AND ARMS TO BE EITHER, REPLACEMENT IN KIND OR SAME MATERIAL SPECIFICATIONS AND APPEARANCE AS EXISTING.
10. POLES # 1, 10, 16 & 17 SHALL HAVE BREAKAWAY COUPLINGS INSTALLED.

ALL THE ABOVE WORK, INCLUDING ELECTRICAL CIRCUIT TESTING, WHICH IS NOT PAID FOR UNDER A SEPARATE ITEM NUMBER, SHALL BE PAID FOR UNDER ITEM 679.15, STREET LIGHTING (1106)

GENERAL NOTES

ALL STREET LIGHT POLES SHALL HAVE A METAL TAG ATTACHED TO THE HANDHOLE WITH THE POLE NUMBER, WATTAGE, TYPE OF LAMP AND DISTRIBUTION, EXAMPLE, #2-150W-H.P.S.-W, MINIMUM LETTER SIZE IS 1/2" HIGH. PAYMENT FOR TAGS WILL BE SUBSIDIARY TO ITEM 679.15, STREET LIGHTING.

STREET LIGHTING DESIGN PARAMETERS

AVERAGE MAINTAINED ILLUMINATION:
ENTRANCE - 0.6 FOOTCANDLES
PARKING AREA - 0.8 TO 1.0 FOOTCANDLES
FILTERED LUMINAIRE: 0.95
LAMP DEPRECIATION: 0.75 @ 24,000 HOURS
COMBINED LAMP FACTOR: 0.7
MOUNTING HEIGHT FACTOR: (80/M.H.)²
UNIFORMITY RATIO: 4:1 MAX.
MIN. FOOTCANDLES ON ACCESS OR PARKING AREA: 0.20

THESE NOTES APPLY TO ALL REST AREAS.

BRADFORD N.B. REST AREA						
POLE NO.	LOCATION	OFF-SET	LENGTH OF POLE ARM	LUMINAIRE WATTS TYPE	MOUNTING HEIGHT	REMARKS
1	EXISTING		28' 8'	100W MC III	30'	REQUIRES A BREAKAWAY FEATURE
2	"		EXISTING	100W "	"	
3	"		"	100W "	"	
4	"		"	150W MC III	"	
5	"		"	2@ 150W "	"	TWO LUMNAIRES
6	"		"	2@ 150W "	"	TWO LUMNAIRES
7	"		"	150W "	"	
8	"		28' 8'	100W "	30'	
9	"		EXISTING	100W "	"	
10	"		"	100W "	"	REQUIRES A BREAKAWAY FEATURE
BRADFORD S.B. REST AREA						
12	EXISTING		EXISTING	100W MC III	EXISTING	
13	"		"	150W MC III	"	
14	"		"	2@ 150W MC III	"	TWO LUMNAIRES
15	"		"	150W MC III	"	
16	"		"	100W MC III	"	REQUIRES A BREAKAWAY FEATURE
17	"		"	100W MC III	"	REQUIRES A BREAKAWAY FEATURE
18	"		"	150W MC III	"	
19	"		"	150W MC III	"	

BRADFORD I-91 REST AREAS NB. & SB.

STREET LIGHTING, DESIGN CRITERIA AND GENERAL NOTES	PREPARED BY <u>R. DAVIS</u> DATE <u>4-88</u>
	CHECKED BY _____ DATE _____
	DESIGN SUPERVISOR <u>DAR</u> DATE _____
	PROJ. <u>STATEWIDE IR LITE (2)</u>
	TRAFFIC SHEET NO. <u>2</u> OF <u>7</u>
	SHEET <u>2</u> OF <u>13</u> SHEETS