

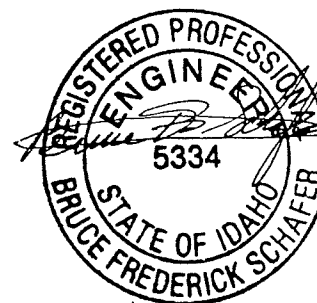
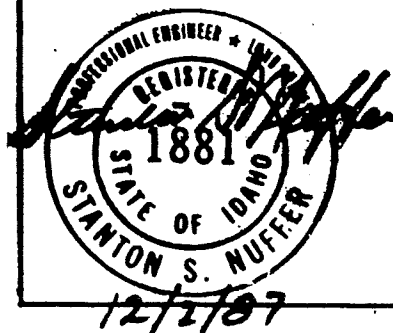
Form Use:
- Typical Section
- Plan Sheet
- Structure &
- Special Drawings



18TH STREET & G STREET
QUANTITIES

FEDERAL ROAD REGION NO.	STATE	FEDERAL AID PROJECT NO.	TOTAL SHEETS	SHEET NO.
10	IDAHO	MG-7254(001)	127	82

No.					
1.	1 each	8-PHASE TRAFFIC SIGNAL CONTROLLER SOLID STATE, TRAFFIC ACTUATED, WITH 4 EMERGENCY VEHICLE PRE-EMPTION PHASES IN TYPE P CABINET. CONTROLLER AND SERVICE CABINET TO BE PLACED ON A COMBINED TYPE P SIGNAL CONTROLLER CABINET AND SERVICE FOUNDATION. SIGNAL CONTROLLER AND CABINET SHALL MEET CITY OF LEWISTON STANDARD SPECIFICATIONS.	11.	4 each	EMERGENCY VEHICLE PRE-EMPTION INDICATOR, SIGNAL HEAD TO BE 12-INCH PEDESTRIAN SIGNAL SINGLE SECTION LUNAR WHITE GLASS LENS, TO BE SIMILAR TO A SINGLE VERTICAL SECTION OF AN ECONOLITE CATALOG NO. 54365G1G. TO BE MOUNTED ON AN ASTRO BRACKET MODEL AB-116 FOR MAST ARM MOUNTING. SIGNAL HEADS 21,22,23, AND 24.
2.	1 each	POLE, STEEL COMBINATION SIGNAL AND LIGHTING, HOT DIPPED GALVANIZED WITH BOLTED LUMINAIRE EXTENSION PER IDAHO TRANSPORTATION DEPARTMENT SPECIFICATION, ID-I-35-Y-3015. POLE A ON PLANS.	12.	4 each	TYPE D FOUNDATION, ANCHOR BOLTS INCLUDED. POLES A, B, C, AND D.
3.	1 each	POLE, STEEL COMBINATION SIGNAL AND LIGHTING, HOT DIPPED GALVANIZED WITH BOLTED LUMINAIRE EXTENSION PER IDAHO TRANSPORTATION DEPARTMENT SPECIFICATION, ID-II-45-Y-3015. POLE B ON PLANS.	13.	4 each	LUMINAIRES WITH INDIVIDUAL PHOTO ELECTRIC CELL, GE M-400A2 CUTOFF POWER/DOOR LUMINAIRE 120-VOLT, 250 WATT LU, INCLUDING LAMP CATALOG NO. M4AC20S1A2GMC32, M-C-III TYPE DISTRIBUTION.
4.	1 each	POLE, STEEL COMBINATION SIGNAL AND LIGHTING, HOT DIPPED GALVANIZED WITH BOLTED LUMINAIRE EXTENSION PER IDAHO TRANSPORTATION DEPARTMENT SPECIFICATION, ID-I-30-Y-3015. POLE C ON PLANS.	14.	8 each	PEDESTRIAN PUSH BUTTONS. TO BE DICK CAMPBELL STYLE "H" ASSEMBLY WITH REES MODEL 1372-412 BUTTON SWITCH PER IDAHO TRANSPORTATION DEPARTMENT STANDARD DRAWING I-6-B.
5.	1 each	POLE, STEEL COMBINATION SIGNAL AND LIGHTING, HOT DIPPED GALVANIZED WITH BOLTED LUMINAIRE EXTENSION PER IDAHO TRANSPORTATION DEPARTMENT SPECIFICATION, ID-II-40-Y-3010. POLE D ON PLANS.	15.	10 each	DETECTOR SOLID STATE SINGLE CHANNEL SHELF MOUNTED UNIT, WITH SERIAL CONNECTOR, SARASOTA CATALOG NO. 535 BMS.
6.	6 each	TRAFFIC SIGNAL, 12-INCH, ONE-WAY, THREE COLOR (RED, YELLOW, GREEN) ASTRO BRACKET MODEL NO. AB-116 FOR MAST ARM MOUNTING, 12-INCH TUNNEL VISOR, 5-INCH BACKPLATES, GLASS LENSES, TO BE TRAFFIC CONTROL TECHNOLOGIES CATALOG NO. HSF83C300G OR APPROVED EQUAL. SIGNAL HEADS 1,4,5,7,10, AND 11.	16.	1 each	JUNCTION BOX, PRE-CAST CONCRETE, 32 INCH X 36 INCH X 28 INCH, REINFORCED, TYPE D.
7.	2 each	TRAFFIC SIGNAL, 12-INCH, ONE-WAY, THREE COLOR (RED, YELLOW LEFT ARROW, GREEN LEFT ARROW), ASTRO BRACKET MODEL NO. AB-116 FOR MAST ARM MOUNTING, 12-INCH TUNNEL VISOR, 5-INCH BACKPLATES, GLASS LENSES. TO BE TRAFFIC CONTROL TECHNOLOGIES CATALOG NO. HSF83C311G OR APPROVED EQUAL. SIGNAL HEADS 3 AND 9.	17.	21 each	JUNCTION BOX, PRE-CAST CONCRETE, 18 INCH X 13 INCH X 15 INCH, REINFORCED, TYPE C.
8.	4 each	TRAFFIC SIGNAL, 12-INCH, ONE-WAY, THREE COLOR (RED, YELLOW, GREEN), STANDARD TERMINAL COMPARTMENT FOR SIDE POLE MOUNTING, AUTOMATIC SIGNAL CATALOG NO. A-802051B OR APPROVED EQUAL, 12-INCH TUNNEL VISOR, 5-INCH BACKPLATE. TO BE TRAFFIC CONTROL TECHNOLOGIES CATALOG NO. HSF83C300G OR APPROVED EQUAL. SIGNAL HEADS 2,6,8, AND 12.	18.	1 each	CLASS B SERVICE, TO BE MEYERS ELECTRIC PRODUCTS, INC. PEDESTAL. SHALL BE A MEYER CATALOG NO. MEUGL-M100 C/S STD MOD , OR EQUAL (SHEETS 96 AND 97).
9.	4 each	PEDESTRIAN SIGNAL, MAN/HAND (INTERNATIONAL SYMBOLIC), ONE-WAY, CLAM SHELL MOUNTED, SINGLE SECTION TO BE INDICATOR CONTROLS COMPANY CATALOG NO. 7092-11C-PHOG-OC3PLM-OSL069. SIGNAL HEADS 14,16,18, AND 20.	19.	1 each	LOOP DETECTOR INTERFACE CARD, SHELF MOUNTED, WITH SERIAL CONNECTOR, SARASOTA CATALOG NO. SC1.
10.	4 each	PEDESTRIAN SIGNAL, MAN/HAND (INTERNATIONAL SYMBOLIC) ONE-WAY, CLAM SHELL MOUNTED, SINGLE SECTION TO BE INDICATOR CONTROLS COMPANY CATALOG NO. 7092-11C-PHOG-OC3PRM-OSL069. SIGNAL HEADS 13,15,17, AND 19.	20.	8 each	FUSED CONNECTORS, TO BE BUSSMAN MANUFACTURING CATALOG NO. HEB-JW-RLC-J.
			21.	---	MISCELLANEOUS ITEMS TO INCLUDE WIRE, CABLE, CONDUIT, AND MISCELLANEOUS HARDWARE.



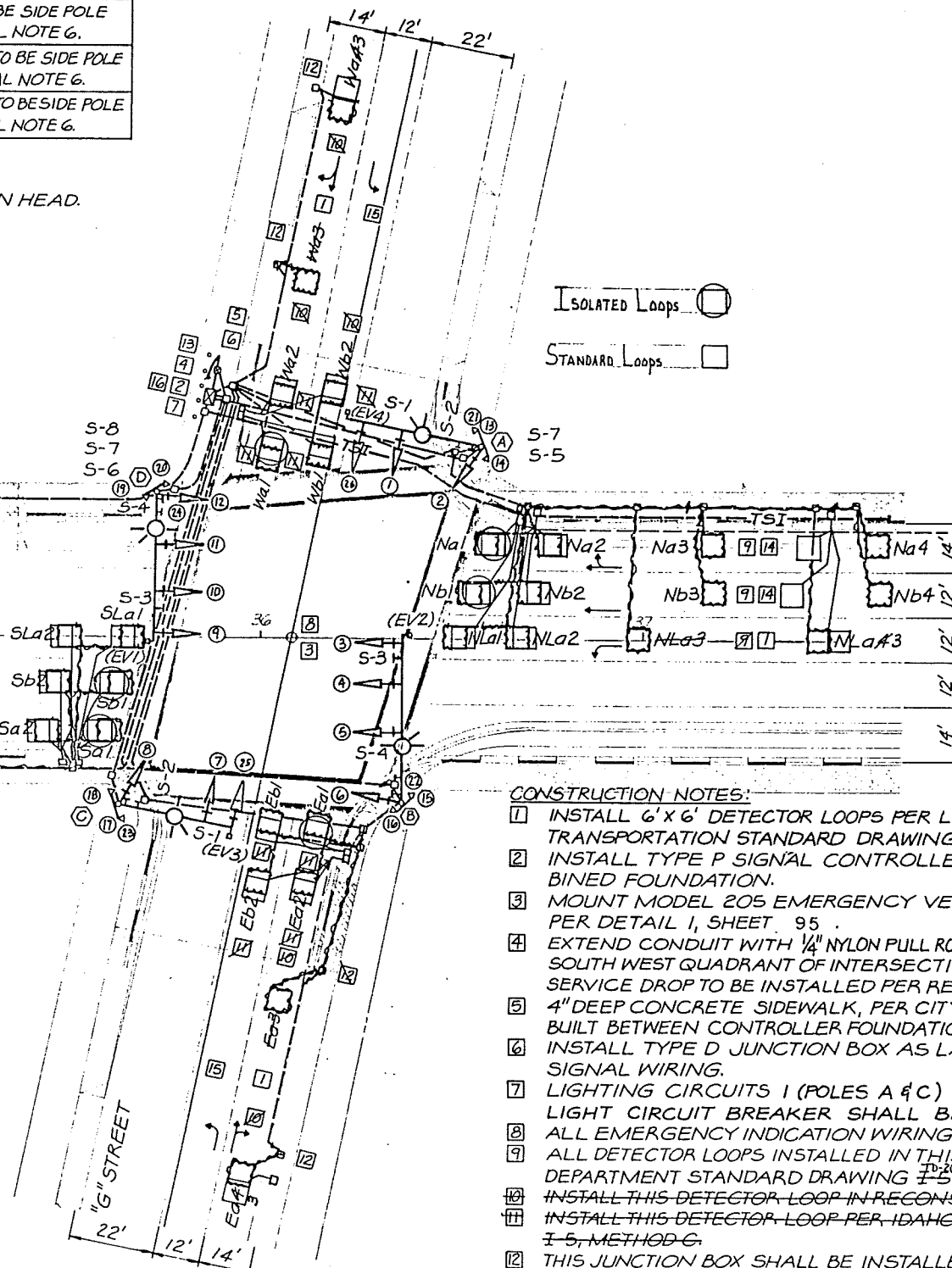
ORIGINAL WORK PREPARED DECEMBER
1987 UNDER THE DIRECTION OF
STANTON S. NUFFER, P.E. NO. 1881,
DECEASED JULY 1991.
MODIFICATIONS BY BRUCE F.
SCHAFFER, P.E. NO. 5334.

P-1574.11

POLE SCHEDULE								
POLE	TYPE	FOUND- ATION	MAST ARM	LUMINAIRE ARM	SIGNAL HEADS	PED HEADS	LOCATION * * *	NOTES
(A)	ID-I-35-Y-3016	D	35'	15'	1, 2, 26	13, 14	STA. 36+57 OFFSET 515' WEST	*, SIGNAL HEAD 2 TO BE SIDE POLE MOUNTED, GENERAL NOTE 6.
(B)	ID-II-45-Y-3016	D	45'	15'	3, 4, 5, 6	15, 16	STA. 36+49 OFFSET 38' EAST	SIGNAL HEAD 6 TO BE SIDE POLE MOUNTED, GENERAL NOTE 6.
(C)	ID-I-30-Y-3016	D	30'	15'	7, 8, 25	17, 18	STA. 35+64 OFFSET 45' EAST	*, SIGNAL HEAD 8 TO BE SIDE POLE MOUNTED, GENERAL NOTE 6.
(D)	ID-II-40-Y-3010	D	40'	10'	9, 10, 11, 12	19, 20	STA. 35+71 OFFSET 39' WEST	*, SIGNAL HEAD 12 TO BE SIDE POLE MOUNTED, GENERAL NOTE 6.

ROADWAY DESIGN SPEED
"G" STREET — 25 MPH
18TH STREET — 35 MPH

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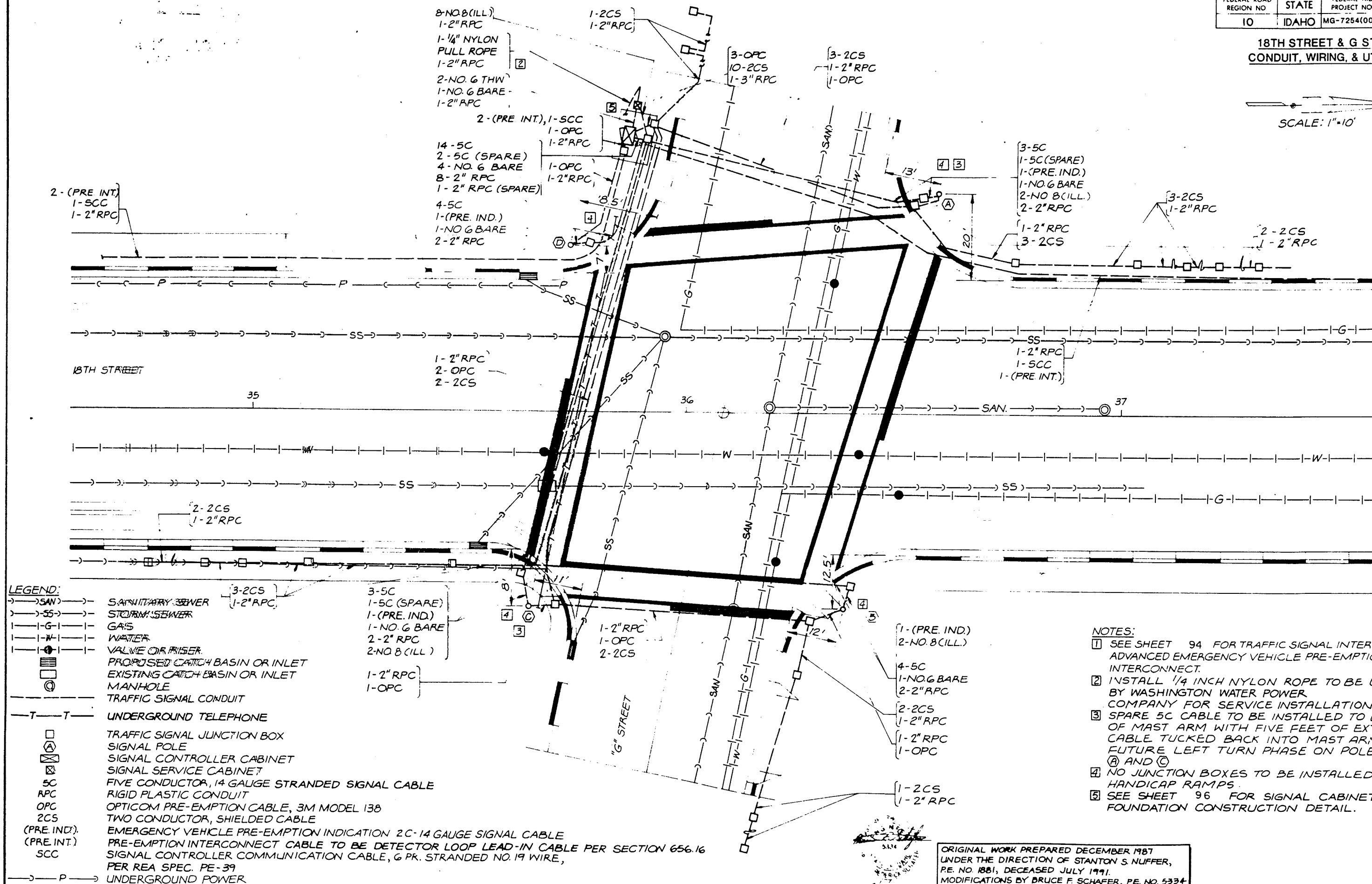
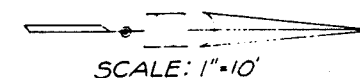
TSI TRAFFIC SIGNAL COMMUNICATION SYSTEM
CABLE IN CONDUIT WITH PRE-EMPTION INTER-
CONNECT CABLE INCLUDED IN PORTIONS OF
INTERCONNECT CONDUIT. SEE SHEET 94 .

GUARD POST TO BE INSTALLED IN PUBLIC
RIGHT-OF-WAY SO THAT SIGNAL CONTROLLER
CABINET AND SERVICE CABINET DOORS
ARE NOT OBSTRUCTED BY GUARD POSTS.

- 1 INSTALL 6' X 6' DETECTOR LOOPS PER LOOP SPACING PLAN B, IDAHO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING I-5, TD-20
- 2 INSTALL TYPE P SIGNAL CONTROLLER CABINET AND CLASS B SERVICE CABINET ON COMBINED FOUNDATION.
- 3 MOUNT MODEL 205 EMERGENCY VEHICLE PRE-EMPTION DETECTOR ON MAST ARM PER DETAIL I, SHEET 95.
- 4 EXTEND CONDUIT WITH 1/4" NYLON PULL ROPE FOR SERVICE TO RELOCATED POWER POLE ON THE SOUTH WEST QUADRANT OF INTERSECTION, APPROX. 50' FROM CONTROLLER & SERVICE CABINET. SERVICE DROP TO BE INSTALLED PER REQUIREMENTS OF WASHINGTON POWER COMPANY.
- 5 4" DEEP CONCRETE SIDEWALK, PER CITY OF LEWISTON STANDARD SPECIFICATIONS, SHALL BE BUILT BETWEEN CONTROLLER FOUNDATION AND BACK OF EXISTING SIDEWALK.
- 6 INSTALL TYPE D JUNCTION BOX AS LAST JUNCTION BOX BETWEEN CONTROLLER AND SIGNAL WIRING.
- 7 LIGHTING CIRCUITS 1 (POLES A & C) AND 2 (POLES B & D) SHALL BE UNMETERED. EACH LIGHT CIRCUIT BREAKER SHALL BE 15 AMPERE.
- 8 ALL EMERGENCY INDICATION WIRING SHALL BE A 2C NO. 14 THW, SIGNAL CABLE.
- 9 ALL DETECTOR LOOPS INSTALLED IN THIS LANE SHALL CONFORM TO IDAHO TRANSPORTATION DEPARTMENT STANDARD DRAWING I-5, ^{TD-20} METHOD C.
- ~~10 INSTALL THIS DETECTOR LOOP IN RECONSTRUCTED DETECTOR LOOP PAD PER DETAIL 4, SHEET 95.~~
- ~~11 INSTALL THIS DETECTOR LOOP PER IDAHO TRANSPORTATION DEPARTMENT STANDARD DRAWING I-5, METHOD C.~~
- 12 THIS JUNCTION BOX SHALL BE INSTALLED IN AN ENTIRELY NEW SEGMENT OF SIDEWALK.
- 13 INSTALL 5 GUARD POSTS, 4' ON CENTER, BETWEEN BACK OF SIGNAL CONTROLLER-SERVICE CABINET FOUNDATION AND PARKING LOT WITHIN PUBLIC RIGHT-OF-WAY. GUARD POSTS TO BE CONSTRUCTED PER "GUARD POST DETAIL A", THIS SHEET.
- 14 INSTALL 6' X 6' DETECTOR LOOPS PER LOOP SPACING PLAN C, IDAHO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING I-5, TD-20
- 15 INSTALL 6' X 6' DETECTOR LOOPS PER LOOP SPACING PLAN A, IDAHO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING I-5, TD-20

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10	IDAHO	MG-7254(001)	127	84

**18TH STREET & G STREET
CONDUIT, WIRING, & UTILITIES**



- LEGEND:**
- SAN → SANITARY SEWER
 - SS → STORM SEWER
 - G → GAS
 - W → WATER
 - V → VALVE OR RISER
 - PROPOSED CATCH BASIN OR INLET
 - EXISTING CATCH BASIN OR INLET
 - MANHOLE
 - TRAFFIC SIGNAL CONDUIT
 - T-T- UNDERGROUND TELEPHONE
 - TRAFFIC SIGNAL JUNCTION BOX
 - ⊗ SIGNAL POLE
 - ⊗ SIGNAL CONTROLLER CABINET
 - ⊗ SIGNAL SERVICE CABINET
 - 5C FIVE CONDUCTOR, 14 GAUGE STRANDED SIGNAL CABLE
 - RPC RIGID PLASTIC CONDUIT
 - OPC OPTICOM PRE-EMPTION CABLE, 3M MODEL 138
 - 2CS TWO CONDUCTOR, SHIELDED CABLE
 - (PRE. IND.) EMERGENCY VEHICLE PRE-EMPTION INDICATION 2C-14 GAUGE SIGNAL CABLE
 - (PRE. INT.) PRE-EMPTION INTERCONNECT CABLE TO BE DETECTOR LOOP LEAD-IN CABLE PER SECTION 656.16
 - SCC SIGNAL CONTROLLER COMMUNICATION CABLE, 6 PR. STRANDED NO. 19 WIRE, PER REA SPEC. PE-39
 - P → UNDERGROUND POWER

- NOTES:**
- 1 SEE SHEET 94 FOR TRAFFIC SIGNAL INTERCONNECT, ADVANCED EMERGENCY VEHICLE PRE-EMPTION INTERCONNECT.
 - 2 INSTALL 1/4 INCH NYLON ROPE TO BE USED BY WASHINGTON WATER POWER COMPANY FOR SERVICE INSTALLATION.
 - 3 SPARE 5C CABLE TO BE INSTALLED TO END OF MAST ARM WITH FIVE FEET OF EXTRA CABLE TUCKED BACK INTO MAST ARM FOR FUTURE LEFT TURN PHASE ON POLES (A) AND (C).
 - 4 NO JUNCTION BOXES TO BE INSTALLED IN HANDICAP RAMPS.
 - 5 SEE SHEET 96 FOR SIGNAL CABINET FOUNDATION CONSTRUCTION DETAIL.

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18TH STREET & G STREET WIRING DIAGRAM

- NOTES:
- PRE-EMPTION INTERCONNECT BETWEEN INTERSECTIONS OF 18TH & IDAHO/18TH & G, AND 18TH & G/18TH & MAIN, SEE SHEET 94.
 - SPARE 5C CABLE TO BE INSTALLED TO END OF MAST ARM FOR FUTURE LEFT TURN PHASE ON POLES (A) & (C).
 - NEATLY COIL SIX FEET OF SPARE 5C CABLE FOR EACH INDIVIDUAL CABLE AND TIE IN SIGNAL CONTROLLER CABINET.
 - INSTALL 1 #10 THWN GREEN LOOP TEST CONDUCTOR UNSPLICED FROM LAST JUNCTION BOX ON EACH APPROACH TO SIGNAL CONTROLLER CABINET.

POWER AC- N TO SERVICE
AC+ L1
GND

VEHICLE		
Ø1 HEAD 3	VI-1	R
	VI-2	←Y
	VI-3	←G
Ø2 HEADS 10, 11, 12	V2-1	R
	V2-2	Y
	V2-3	G
	V2-6	AC-
Ø3 FUTURE	V3-1	R
	V3-2	←Y
	V3-3	←G
	V3-6	AC-
Ø4 HEADS 7, 8	V4-1	R
	V4-2	Y
	V4-3	G
	V4-6	AC-
Ø5 HEAD 9	V5-1	R
	V5-2	←Y
	V5-3	←G
	V5-6	AC-
Ø6 HEADS 4, 5, 6	V6-1	R
	V6-2	Y
	V6-3	G
	V6-6	AC-
Ø7 FUTURE	V7-1	R
	V7-2	←Y
	V7-3	←G
	V7-6	AC-
Ø8 HEADS 1, 2	V8-1	R
	V8-2	Y
	V8-3	G
	V8-6	AC-

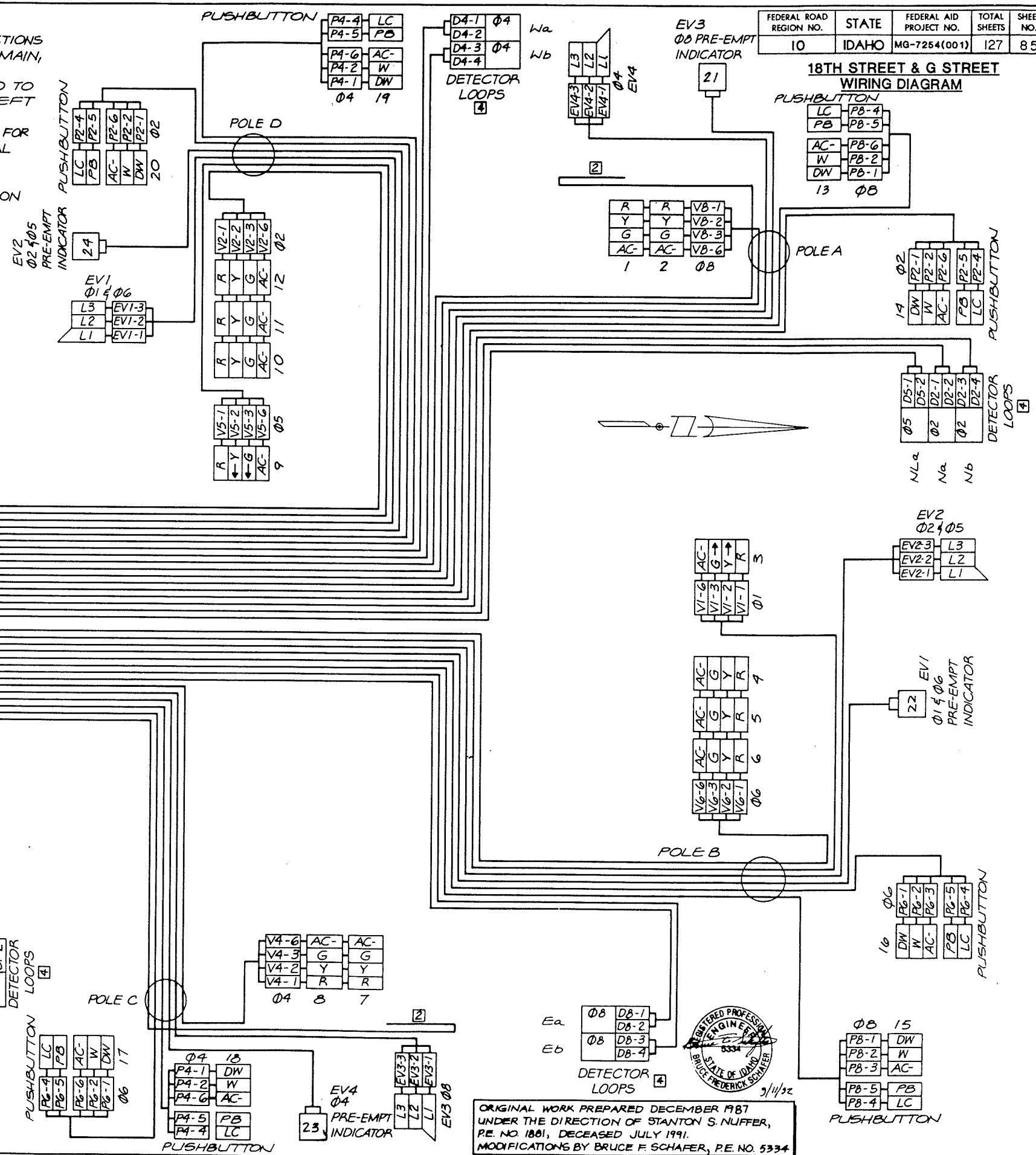
PEDESTRIAN		
Ø2 HEADS 13, 20	P2-1	DW
	P2-2	W
	P2-6	AC-
	P2-5	PB
	P2-4	LC
Ø4 HEADS 18, 19	P4-1	DW
	P4-2	W
	P4-6	AC-
	P4-5	PB
	P4-4	LC
Ø6 HEADS 16, 17	P6-1	DW
	P6-2	W
	P6-6	AC-
	P6-5	PB
	P6-4	LC
Ø8 HEADS 14, 15	P8-1	DW
	P8-2	W
	P8-6	AC-
	P8-5	PB
	P8-4	LC

LOOPS		
Ø1 SLA	D1-1	
	D1-2	
Ø2 Na	D2-1	
	D2-2	
	D2-3	
	D2-4	
Ø4 Wa	D4-1	
	D4-2	
	D4-3	
	D4-4	
Ø5 NLa	D5-1	
	D5-2	
Ø6 Sa	D6-1	
	D6-2	
	D6-3	
	D6-4	
Ø8 Ea	D8-1	
	D8-2	
	D8-3	
	D8-4	

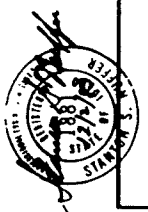
PRE-EMPT		
Ø1 Ø6 EV1	EVI-1	L1
	EVI-2	L2
	EVI-3	L3
Ø2 Ø5 EV2	EVI-1	L1
	EVI-2	L2
	EVI-3	L3
Ø3 EV3	EVI-1	L1
	EVI-2	L2
	EVI-3	L3
Ø4 EV4	EVI-1	L1
	EVI-2	L2
	EVI-3	L3

SC SPARES		
EV1 Ø1 Ø6	P23	
EV2 Ø2 Ø5	P43	
EV3 Ø3 Ø8	P63	
EV4 Ø4 Ø4	P83	
HEAD 22		
HEAD 24		
HEAD 21		
HEAD 23		

DETECTOR LOOPS		
Ø6	D6-1	Sa
Ø6	D6-2	Sb
Ø1	D1-1	SLA

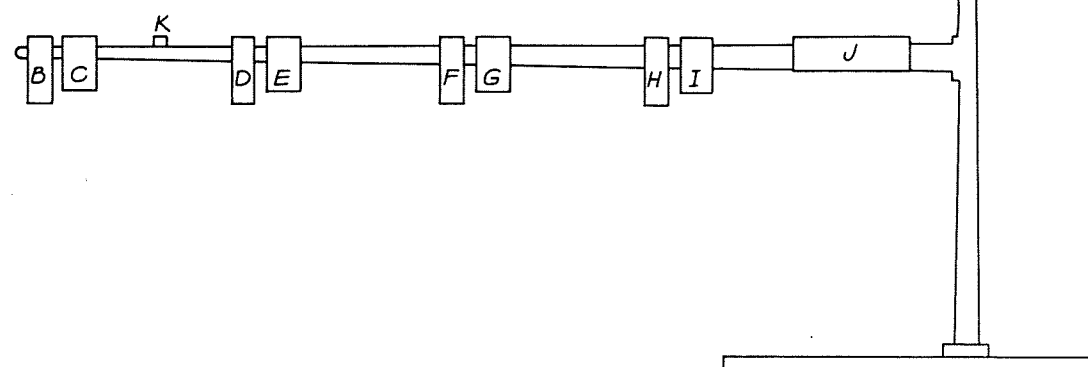


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MAST ARM LOADING CHART Φ

POLE	MAST ARM	LUMINAIRE ARM A	SIGNAL HEAD B	30"x36" SIGN C	SIGNAL HEAD D	30"x36" SIGN E	SIGNAL HEAD F	30"x36" SIGN G	SIGNAL HEAD H	PRE-EMPT INDICATOR HEAD *	STREET NAME SIGN J	PRE-EMPT DETECTOR K
A	35'	16'	—	31'-0"	23'-0"					1'-3"	5'-0"	**
B	45'	16'	42'-0"	39'-0"	31'-0"		18'-0"			1'-3"	5'-0"	**
C	30'	16'	29'-6"	22'-0"						1'-3"	5'-0"	**
D	40'	10'	35'-6"	32'-6"	26'-6"		13'-6"			1'-3"	5'-0"	**

SIGN TABLE $\Phi\Phi$

NUMBER	QUANTITY	DESIGNATION	SIGN SIZE	NOTES
S-1	2	R3-5L	30"x36"	ONLY
S-2	2	STREET NAME	16"x72"	18TH ST
S-3	2	R-10-10L	30"x36"	LEFT TURN SIGNAL
S-4	2	STREET NAME	16"x72"	"G" ST
S-5*	1	M6-1R (W)	21"x15"	→
S-6*	1	M6-1L (W)	21"x15"	←
S-7*	2	R14-1	18"x24"	SEE DETAIL R14-1
S-8*	1	GUIDE SIGN	36"x54"	SEE DETAIL 2 SHEET 95

SIGN BLANKS TO BE AFFIXED TO MAST ARM THROUGH THE USE OF STAINLESS STEEL BAND-IT MATERIAL AND BRACKETS.

*EXISTING SIGNS TO BE REPLACED WITH NEW SIGNS ON NEW POLES IN SAME RELATIVE POSITIONS.

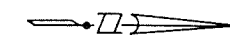
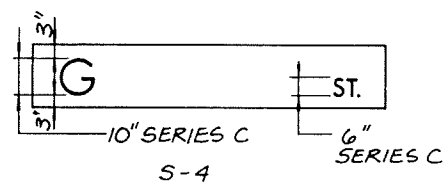
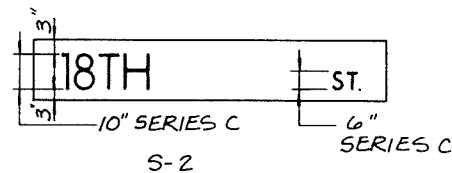
$\Phi\Phi$ ALL SIGNS TO BE TYPE "B" PER SECTION 616 IDAHO TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS.

MAST ARM LOADING CHART NOTES:

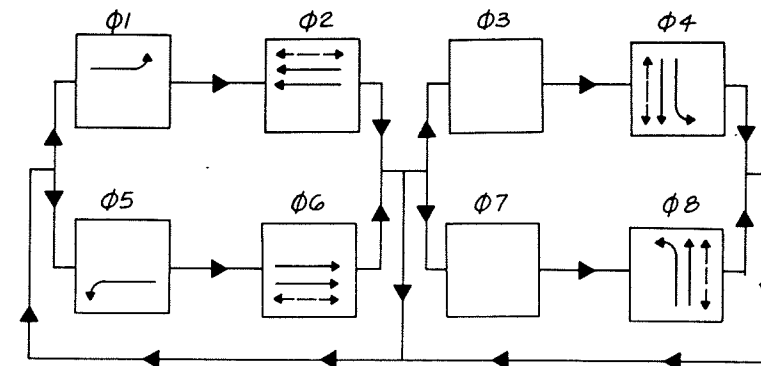
*SEE GENERAL NOTE 6, SHEET 94, AND DETAIL 5, SHEET 95.

**END OF MAST ARM. SEE DETAIL 1, SHEET 94.

Φ LOCATION OF SIGNS, SIGNALS, PRE-EMPTION INDICATOR AND DETECTOR MEASURED FROM MAST ARM POLE ATTACHMENT TO CENTER OF UNIT ATTACHED.



18TH STREET & G STREET
PHASING



PHASING OF SIGNAL

SIGNAL SEQUENCE CHART

PHASE	HEAD NUMBER															
	1,2	3	4,5,6	7,8	9	10,11,12	14,15	13,20	16,17	18,19	21	22	23	24		
$\Phi 1$ →	R R	←G ←Y	R R	R R	R R	R R	DW DWN	DW DWN	DW DWN	DW DWN	OFF OFF	OFF OFF	OFF OFF	OFF OFF		
$\Phi 2$ ↔	R R	R R	R R	R R	R R	G Y	DW DWN	W FDW	DW DWN	DW DWN	OFF OFF	OFF OFF	OFF OFF	OFF OFF		
$\Phi 4$ ↕	R R	R R	R R	G Y	R R	R R	DW DWN	DW DWN	DW DWN	W FDW	OFF OFF	OFF OFF	OFF OFF	OFF OFF		
$\Phi 5$ ↖	R R	R R	R R	R R	←G ←Y	R R	DW DWN	DW DWN	DW DWN	DW DWN	OFF OFF	OFF OFF	OFF OFF	OFF OFF		
$\Phi 6$ ↔	R R R	R R R	G G Y	R R R	R R R	R R R	DW DWN DWN	DW DWN DWN	W FDW DWN	DW DWN DWN	OFF OFF OFF	OFF OFF OFF	OFF OFF OFF	OFF OFF OFF		
$\Phi 8$ ↕	G G Y	R R R	R R R	R R R	R R R	R R R	W FDW DWN	DW DWN DWN	DW DWN DWN	DW DWN DWN	OFF OFF OFF	OFF OFF OFF	OFF OFF OFF	OFF OFF OFF		
FLASHING	R	R	Y	R	R	Y	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
EV1 $\Phi 1 \& \Phi 6$ ↔	R R	←G ←Y	G Y	R R	R R	R R	DW DWN	DW DWN	DW DWN	DW DWN	OFF OFF	ON OFF	OFF OFF	OFF OFF		
EV2 $\Phi 2 \& \Phi 5$ ↔	R R	R R	R R	R R	←G ←Y	G Y	DW DWN	DW DWN	DW DWN	DW DWN	OFF OFF	OFF OFF	OFF OFF	ON OFF		
EV3 $\Phi 4$ ↕	R R	R R	R R	G Y	R R	R R	DW DWN	DW DWN	DW DWN	DW DWN	OFF OFF	OFF OFF	ON OFF	OFF OFF		
EV4 $\Phi 8$ ↕	G Y	R R	R R	R R	R R	R R	DW DWN	DW DWN	DW DWN	DW DWN	ON OFF	OFF OFF	OFF OFF	OFF OFF		

G = GREEN
R = RED
Y = YELLOW

←G = GREEN ARROW (LEFT TURN)
←Y = YELLOW ARROW (LEFT TURN)
W = WALK (WALKING MAN, INT'L SYMBOL)

FDW = FLASHING DON'T WALK (FLASHING HAND, INT'L SYMBOL)
DW = DON'T WALK (SOLID HAND, INT'L SYMBOL)
EV = EMERGENCY VEHICLE PRE-EMPT