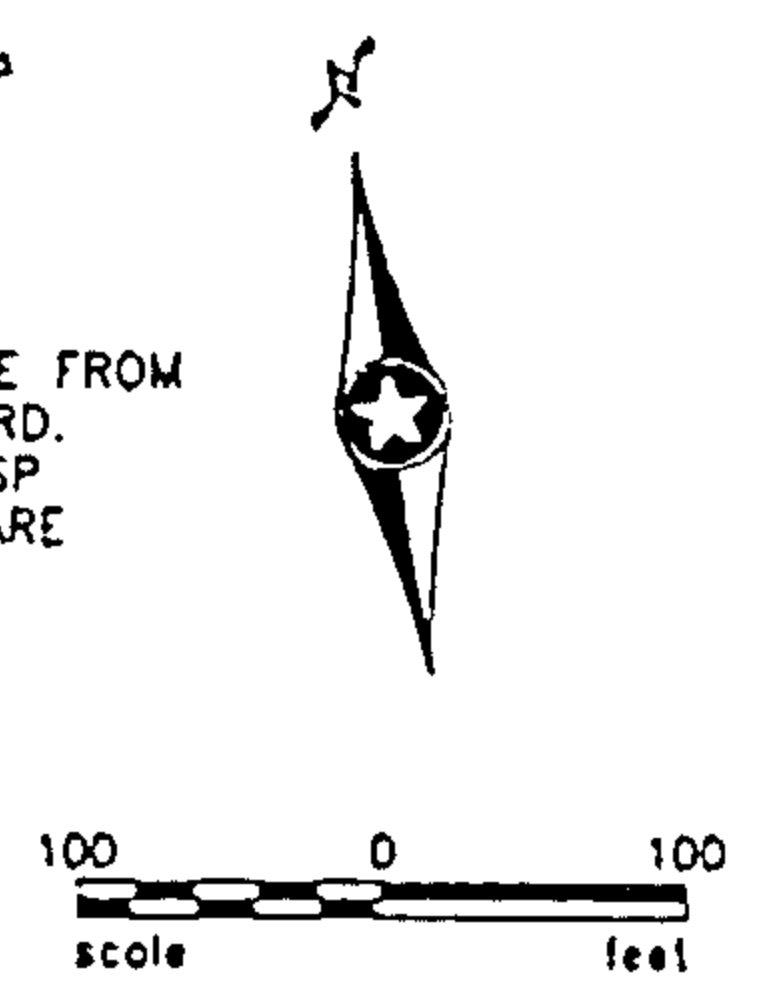


**LEGEND**

- PAD MOUNTED FEED POINT (240/480V)
- PULL BOX (HAND HOLE)
- NON-METALLIC CONDUIT (2" DIA. UNLESS NOTED OTHERWISE)
- CONDUIT CONSTRUCTED AS PART OF BRIDGE CONSTRUCTION. (SEE NOTES)
- DIRECT BURIED ARMORED POWER CABLE
- ⊙  
/ \ HIGH MAST LIGHTING UNIT WITH NO. OF LUMINAIRES AND ORIENTATION
- ⊙  
/ \ UNDERPASS LIGHT
- ⊙  
/ \ LIGHTING UNIT
- ⊙  
/ \ OVERHEAD SIGN

**POWER SUPPLY NOTE (R19L):**  
 BURIED PRIMARY POWER FEED TO R19L WILL BE FROM EXISTING NSP LINES NORTH OF PARK ACCESS RD. CONTRACTOR SHALL COORDINATE WORK WITH NSP SO THAT BURIED PRIMARY FEED CONDUCTORS ARE PLACED PRIOR TO CONSTRUCTION OF ROADWAY PAVEMENT OR BRIDGE SLOPE PAVEMENT (AS APPROPRIATE).



- NOTES:**
- ① BRIDGE NO. 27624 (WILL BE CONSTRUCTED UNDER SEPARATE CONTRACTS) PLACE CONDUCTORS IN 2" NON-METALLIC CONDUIT IN BRIDGE RAILING. CONDUIT WILL BE PLACED IN BRIDGE RAIL AND EXTENDED 10' PAST WING WALL AND CAPPED AS PART OF BRIDGE CONSTRUCTION.
  - ② PLACE CONDUCTORS IN 1" NON-METALLIC CONDUIT IN BRIDGE ABUTMENT. CONDUIT AND JUNCTION BOXES WILL BE PLACED IN BRIDGE ABUTMENT AND EXTENDED 10' PAST WING WALL AS PART OF BRIDGE CONSTRUCTION.
  - ③ 1" NON-METALLIC CONDUIT. CONNECT TO CONDUIT PLACED IN BRIDGE ABUTMENTS AS PART OF BRIDGE CONSTRUCTION.
  - ④ LIGHTING TOWER, LUMINAIRES R19J/18 THROUGH R19J/20, AND 3/C-#4 ARMORED CABLE FROM HH13 TO TOWER WILL BE CONSTRUCTED UNDER SEPARATE CONTRACTS AND ARE SHOWN FOR INFORMATION ONLY. CABLE SHALL BE PLACED FROM FEED POINT R19J AND TERMINATED IN HH13 UNDER THIS CONTRACT. COIL 10' OF CABLE IN HH13 TO ALLOW SLACK FOR FUTURE SPLICE.

⑤ 

O.H. 100-169
2-250W.M.V.
FD. PT. (R19J) S

  
 BEGIN S.P. 70-618-12  
 N.B. C.S.A.H. 18 P.O.C. STA. 210+52.54

O.H. 101-169
5-250W.M.V.
FD. PT. (R19L) K

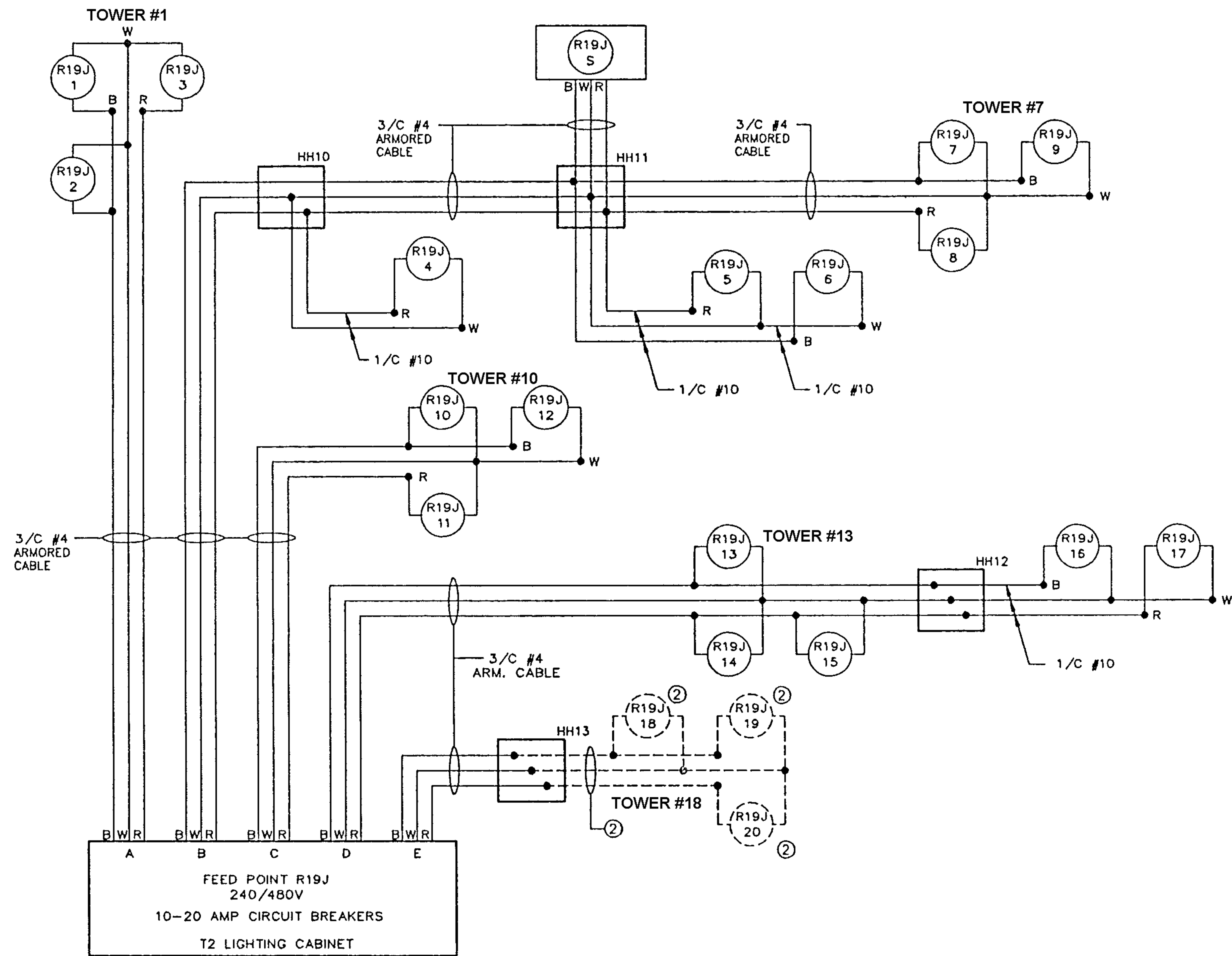
NOTE: ROADWAYS AND BRIDGES SHOWN ON THIS SHEET SOUTH OF BRIDGE NOS. 70521 & 70522 WILL BE CONSTRUCTED UNDER SEPARATE CONTRACTS AND ARE SHOWN FOR INFORMATION ONLY.

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.  
*Steven Rick Brown*  
 Date 07/14/93 Reg. No. 19528

**EXHIBIT 306A      FEED POINTS R19L & R19J**

<b>SCOTT COUNTY</b> T.H. 169 & T.H. 101 IN SHAKOPEE LIGHTING PLAN	S.P. 70-618-12	DRAWN BY DATE D. SYMANIETZ 11-92 DESIGNED BY D. MICHALKO 11-92 CHECKED BY S.R. BROWN 12-92	SHEET <b>73</b> OF <b>168</b> COMM. NO. 0891410
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NOTES:  
 B AND R DENOTE CURRENT CARRYING CONDUCTORS.  
 W DENOTES NEUTRAL CONDUCTOR.  
 1/C #6 BARE GROUND (SPEC. 3B07.2F) IS REQUIRED IN ALL  
 NONMETALLIC CONDUIT CARRYING UNDERGROUND WIRE.  
 (GROUND WIRE NOT SHOWN IN CIRCUIT DIAGRAMS).

LIGHTING SYSTEM "R19J"					
NO.	STATION	OFFSET	LOCATION	POLE TYPE	LUMINAIRE TYPE (1)
TOWER #1	1-3	370+00	32' LT. INPLACE E.B. T.H. 101	3-100	S-NC 11
	4	321+85	1' RT. RAMP B (T.H. 101) (S ABUTMENT BR 70518)		S-NC 1V
	5	218+68	5' LT. S.B. C.S.A.H. 18 (S ABUTMENT BR 70520)		S-NC 1V
	6	219+21	13' RT. N.B. C.S.A.H. 18 (S ABUTMENT BR 70519)		S-NC 1V
TOWER #7	7-9	341+80	80' LT. RAMP B (T.H. 101)	3-120	S-NC 11
TOWER #10	10-12	218+10	185' RT. N.B. C.S.A.H. 18	3-100	S-NC 11
TOWER #13	13-15	217+30	130' LT. S.B. C.S.A.H. 18	3-100	S-NC 1V
	16	214+32	3' LT. S.B. C.S.A.H. 18 (N ABUTMENT BR 70522)		S-NC 1V
	17	214+34	5' RT. N.B. C.S.A.H. 18 (N ABUTMENT BR 70521)		S-NC 1V
TOWER #18 (2)	18-20	211+40	45' LT. N.B. C.S.A.H. 18	3-100 (2)	S-NC 11

ITEM	UNIT	ESTIMATED QUANTITY
2" NON-METALLIC CONDUIT	LIN. FT.	750
ARMORED CABLE 3 COND NO. 4	LIN. FT.	3800
UNDERGROUND WIRE 1 COND NO. 6 (BARE)	LIN. FT.	350
UNDERGROUND WIRE 1 COND NO. 10	LIN. FT.	800
PULL BOX (HANDHOLE)	EACH	4
EQUIPMENT PAD	EACH	1
SERVICE PANEL SECONDARY TYPE T2-D-240	EACH	1
UNDERPASS LIGHTING UNIT TYPE L	EACH	5
LIGHTING UNIT TYPE 3-100	EACH	3
LIGHTING UNIT TYPE 3-120	EACH	1
LIGHT BASE DESIGN T-100	EACH	3
LIGHT BASE DESIGN T-120	EACH	1

NOTES:  
 (1) ALL HIGH MAST LUMINAIRES ARE 1000 W HIGH PRESSURE SODIUM.  
 ALL UNDER PASS LUMINAIRES ARE 200 W HIGH PRESSURE SODIUM.  
 (2) LIGHTING TOWER, LUMINAIRES R19J/18 THROUGH R19J/20,  
 AND 3/C #4 ARMORED CABLE FROM HH13 TO TOWER WILL BE  
 CONSTRUCTED UNDER SEPARATE CONTRACTS AND ARE SHOWN FOR  
 INFORMATION ONLY. CABLE SHALL BE PLACED FROM FEED  
 POINT R19J AND TERMINATED IN HH13 UNDER THIS CONTRACT.

C.S.A.H. 18  
 SOUTH PORTION OF T.H. 101 INTERCHANGE

FEED POINT R19J

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.  
*Steven Rick Brown*  
 Date 02/16/92 Reg No. 19568

SCOTT COUNTY  
 C.S.A.H. 18  
 ELECTRICAL LIGHTING SYSTEMS CIRCUITS  
 FEED POINT R19J

DRAWN BY DATE  
 D. SYMANIETZ 11-92  
 DESIGNED BY  
 D. MICHALKO 11-92  
 CHECKED BY  
 S.R. BROWN 12-92  
 SHEET 74B  
 OF 168  
 COMM. NO.  
 0901410