

LEGEND

- (N) - DENOTES CABINET DESIGNATION
- (X) - DENOTES POLE NUMBER

NOTES:

- B (BLACK) AND R (RED) DENOTE CURRENT CARRYING CONDUCTORS
- W (WHITE) DENOTES NEUTRAL CONDUCTOR
- NO SPLICES SHALL OCCUR WITHIN THE HANDHOLES.
- ALL SPLICES SHALL BE DONE WITHIN THE JUNCTION BOXES OR BASES OF THE LIGHT POLES.

TIME : 4:39:04 PM
 PLOTTED : 6/14/2017
 PATH & FILENAME : c:\pwworking\aecom\00\buffer\file\da\d0445895\cbr_62090_sys_L1T08.dgn

NO.	DATE	BY	DESCRIPTION OF REVISIONS



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNED: *John A. Milius* JOHN A. MILIUS
 DATE: 06/14/2017 LICENSE: 46905

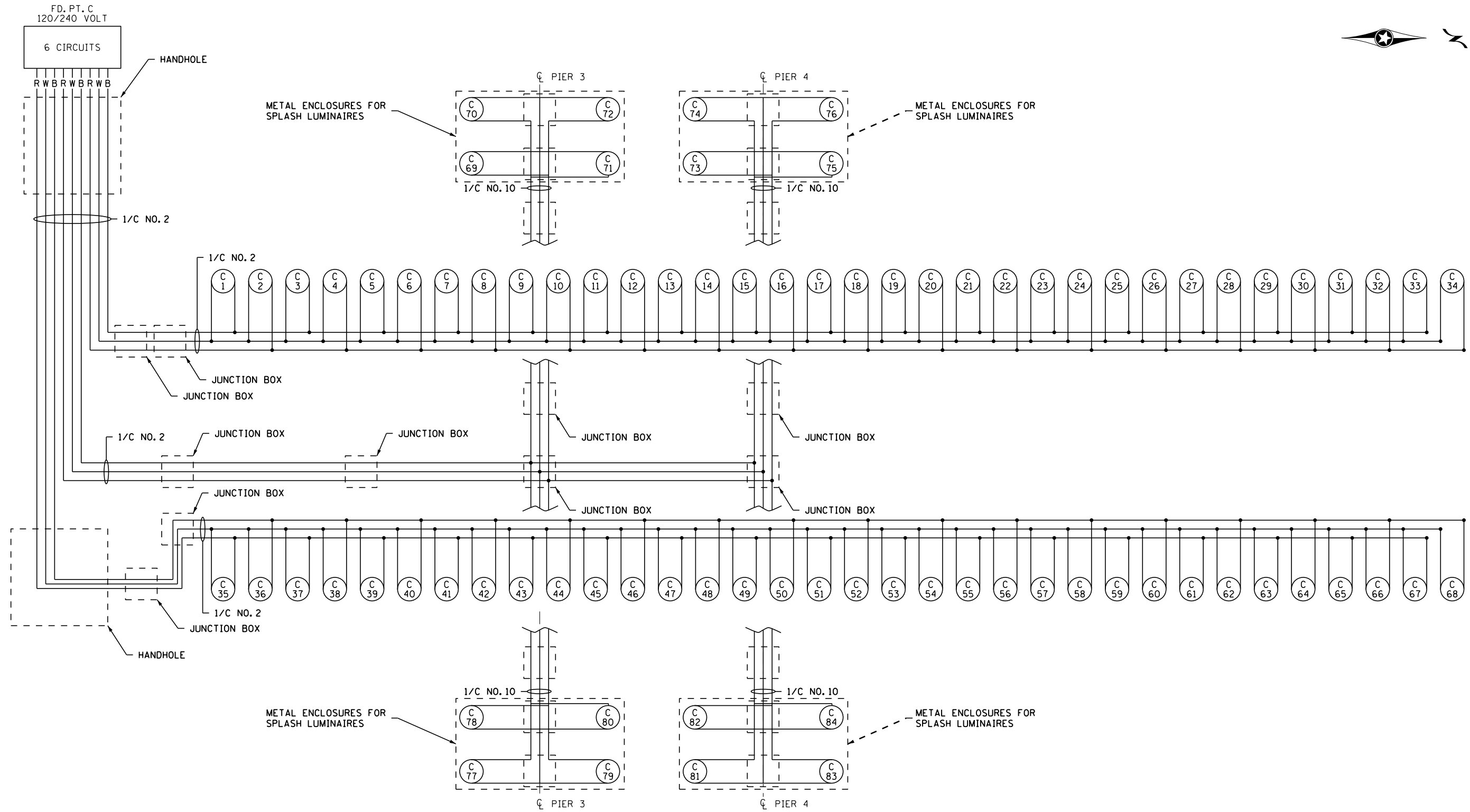
STATE PROJECT NO. 6223-20
 STATE AID PROJECT NO. 164-010-071

TITLE:
NAVIGATION LIGHTING WIRING DIAGRAM

DES: TJL	DR: CAM	APPROVED: <i>6/8/17</i>
CHK: WDS	CHK: WDS	

SHEET NO. 158 OF 167 SHEETS

BRIDGE NO. 62090



LEGEND

- (C XX) C - DENOTES CABINET DESIGNATION
- XX - DENOTES POLE NUMBER

NOTES:

B (BLACK) AND R (RED) DENOTE CURRENT CARRYING CONDUCTORS
 W (WHITE) DENOTES NEUTRAL CONDUCTOR
 NO SPLICES SHALL OCCUR WITHIN THE HANDHOLES.
 ALL SPLICES SHALL BE DONE WITHIN THE JUNCTION BOXES OR BASES OF THE LIGHT POLES.

TIME : 4:38:56 PM
 PLOTTED : 6/14/2017
 PATH & FILENAME : c:\pwworking\aecom\00\buffer\tda\0445895\cbr_62090_sys_1.T07.dgn

NO.	DATE	BY	DESCRIPTION OF REVISIONS



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
 SIGNED: *John A. Milius* JOHN A. MILIUS
 DATE: 06/14/2017 LICENSE: 46905

STATE PROJECT NO. 6223-20
 STATE AID PROJECT NO. 164-010-071

TITLE:
BRIDGE AND SPLASH LIGHTING WIRING DIAGRAM

DES: TJL DR: CAM APPROVED: *6/17/17*
 CHK: WDS CHK: WDS
 SHEET NO. 157 OF 167 SHEETS

BRIDGE NO. 62090

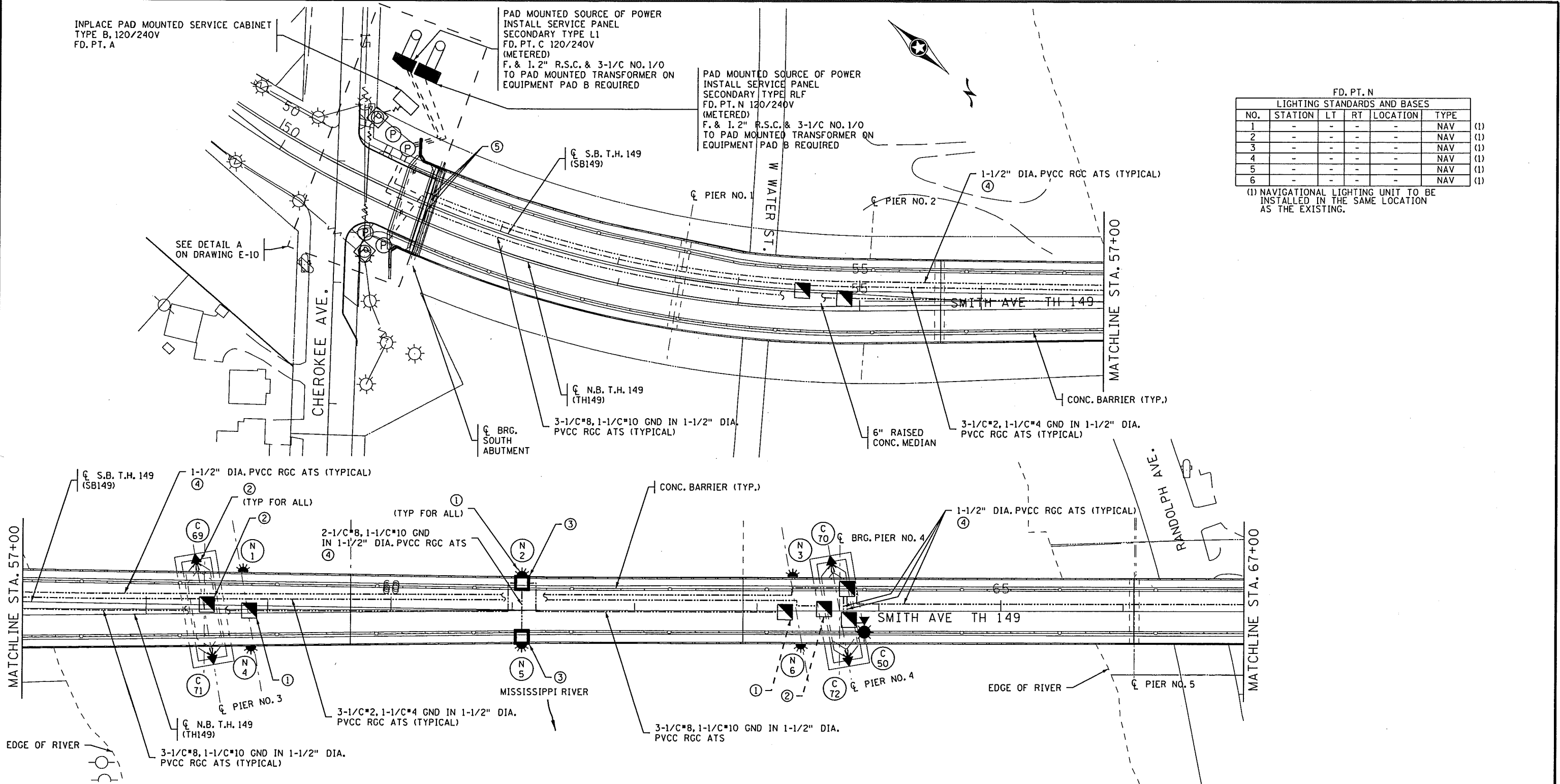
INPLACE PAD MOUNTED SERVICE CABINET
TYPE B, 120/240V
FD. PT. A

PAD MOUNTED SOURCE OF POWER
INSTALL SERVICE PANEL
SECONDARY TYPE L1
FD. PT. C 120/240V
(METERED)
F. & 1.2" R.S.C. & 3-1/2" NO. 1/0
TO PAD MOUNTED TRANSFORMER ON
EQUIPMENT PAD B REQUIRED

PAD MOUNTED SOURCE OF POWER
INSTALL SERVICE PANEL
SECONDARY TYPE RLF
FD. PT. N 120/240V
(METERED)
F. & 1.2" R.S.C. & 3-1/2" NO. 1/0
TO PAD MOUNTED TRANSFORMER ON
EQUIPMENT PAD B REQUIRED

FD. PT. N					
LIGHTING STANDARDS AND BASES					
NO.	STATION	LT	RT	LOCATION	TYPE
1	-	-	-	-	NAV (1)
2	-	-	-	-	NAV (1)
3	-	-	-	-	NAV (1)
4	-	-	-	-	NAV (1)
5	-	-	-	-	NAV (1)
6	-	-	-	-	NAV (1)

(1) NAVIGATIONAL LIGHTING UNIT TO BE
INSTALLED IN THE SAME LOCATION
AS THE EXISTING.



NOTES:

- ① SEE DRAWING E-11 FOR NAVIGATIONAL LIGHTING LOCATIONS AND DETAILS.
- ② SEE DRAWING E-12 FOR SPLASH LIGHTING LOCATIONS AND DETAILS.
- ③ NAVIGATIONAL LIGHTING ACCESS CHUTE LOCATED IN THE SIDEWALK. SEE STRUCTURAL PLANS FOR ADDITIONAL DETAILS.
- ④ PROPOSED 1-1/2" PVCC RGC CONDUIT ATTACHED TO STRUCTURE SHALL REMAIN EMPTY.
- ⑤ CONDUITS TO BE CORE DRILLED THROUGH THE EXISTING ABUTMENT. SEE STRUCTURAL DRAWINGS FOR DETAILS.

TIME : 5:24:30 PM
 PLOTTED : 4/26/2017
 PATH & FILENAME: c:\pwworking\avecom\00\mch\mch\rec\0445895\cbr_62090_sys_L105.dgn



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNED: _____ DATE: _____ LICENSE: _____

JOHN MILIUS

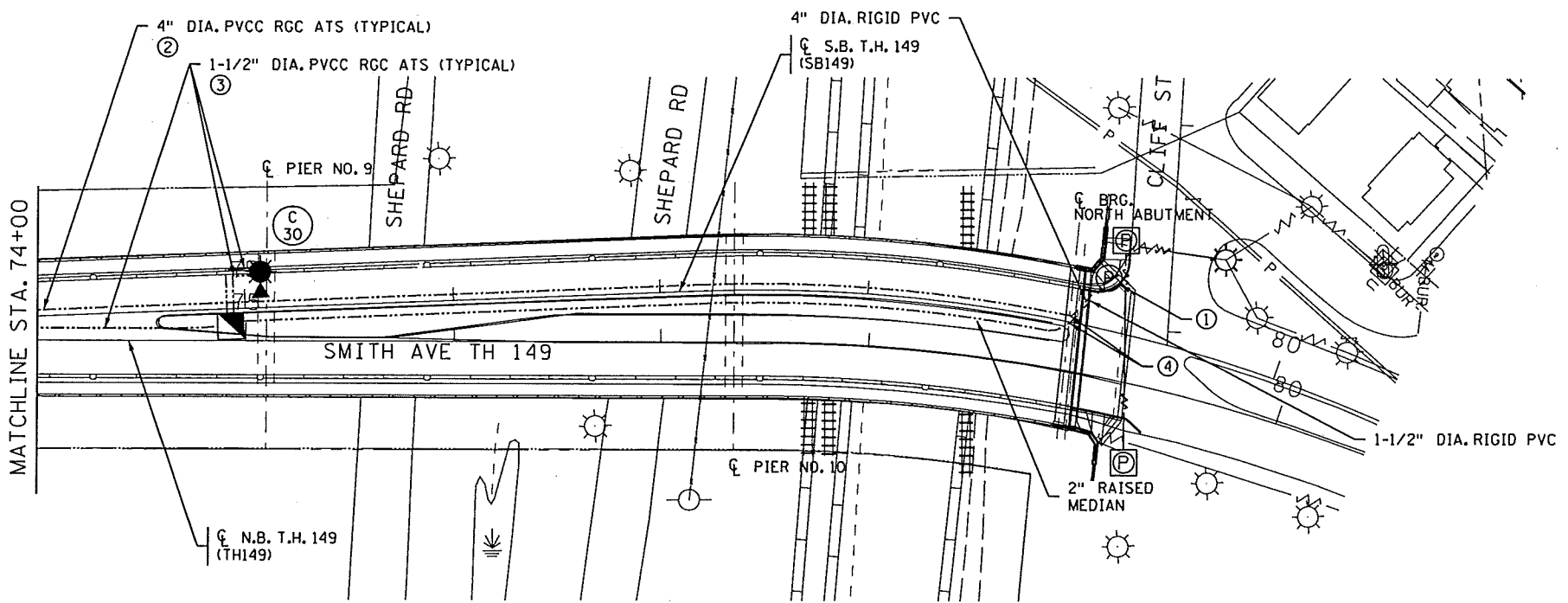
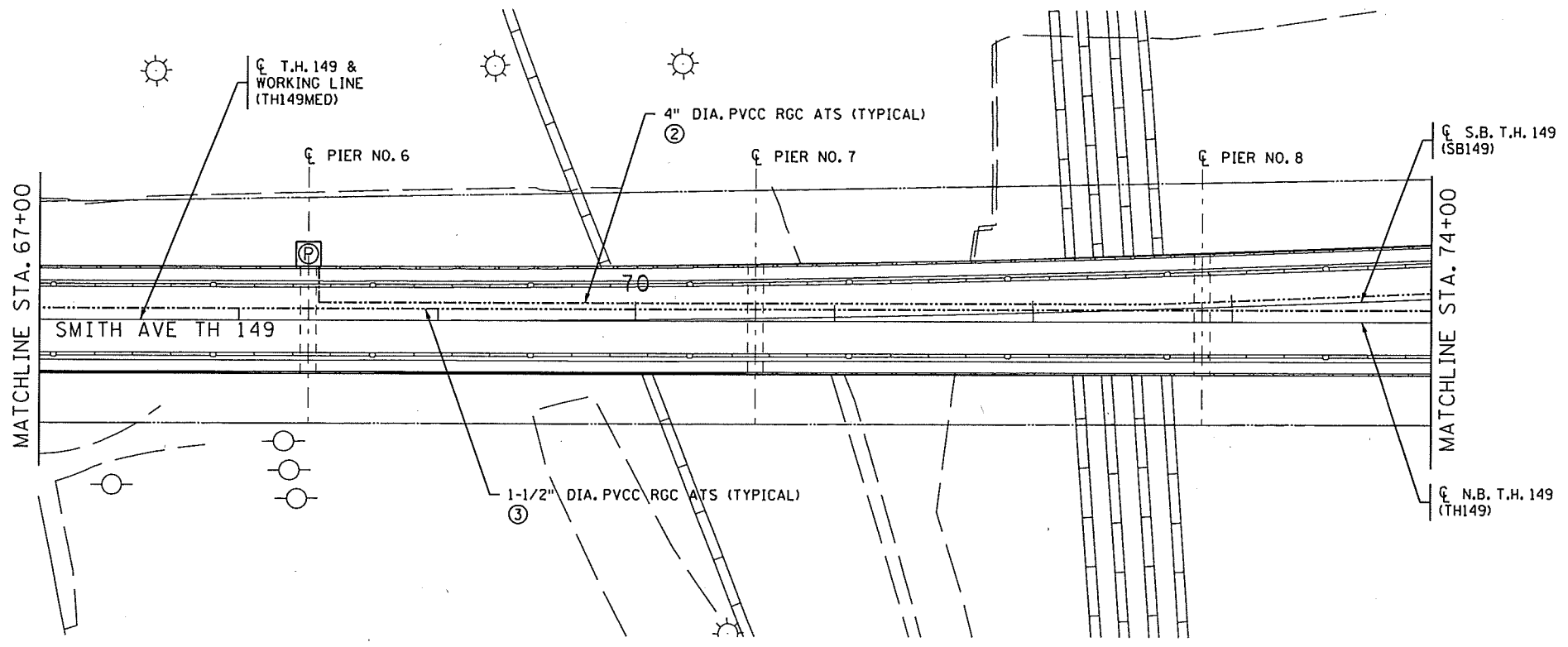
STATE PROJECT NO. 6223-20

TITLE: PROPOSED LIGHTING PLAN
CONDUIT SYSTEMS ATTACHED
TO STRUCTURE

DES: _____ DR: _____ APPROVED: _____
 CHK: _____ CHK: _____
 SHEET NO. 148 OF 160 SHEETS

BRIDGE NO. 62090

E-05



NOTES:

- ① TERMINATE BOTH THE 4" CENTURYLINK CONDUIT AND 1-1/2" CCTV CONDUIT WITHIN THE PROPOSED MANHOLE LOCATED ON THE SOUTHWEST CORNER OF CLIFF STREET AND SMITH AVENUE.
- ② ROUTE A 4" PVCC RGC CONDUIT FROM THE EXISTING CENTURYLINK PULL BOX, LOCATED AT THE BASE OF PIER NUMBER 6, UP THE PIER AND TO THE NORTH ABUTMENT OF THE HIGH BRIDGE BY ATTACHING THE CONDUIT TO THE UNDERSIDE OF THE BRIDGE.
- ③ PROPOSED 1-1/2" PVCC RGC CONDUIT ATTACHED TO STRUCTURE SHALL REMAIN EMPTY.
- ④ CONDUITS TO BE CORE DRILLED THROUGH THE EXISTING ABUTMENT. SEE STRUCTURAL DRAWINGS FOR DETAILS.

TIME : 5:24:37 PM
 PLOTTED : 4/26/2017
 PATH & FILENAME: c:\pwworking\aecom\0\mch\mch\rec\0445895\cbr_62090_sys_L106.dgn

NO.	DATE	BY	DESCRIPTION OF REVISIONS



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 SIGNED: _____ DATE: _____ LICENSE: JOHN MILIUS

STATE PROJECT NO. 6223-20

TITLE: PROPOSED LIGHTING PLAN
 CONDUIT SYSTEMS ATTACHED
 TO STRUCTURE

DES:	DR:	APPROVED:
CHK:	CHK:	
SHEET NO. 149 OF 160 SHEETS		

BRIDGE NO. 62090

E-06