

ESTIMATE OF QUANTITIES			
ITEM NUMBER	ITEM DESCRIPTION	PAY UNIT	QUANTITY
204 (2)	UTILITY POTHOLING	LUMP SUM	ALL REQUIRED
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (4)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQUIRED
641 (6)	WITHOLDING	CONTINGENT SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
660 (14)	LUMINAIRE, HIGH PRESSURE SODIUM, 250 WATT	EACH	1
660 (15)	JUNCTION BOX, TYPE 1-A	EACH	2
660 (16)	HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT	LINEAR FOOT	325
660 (17)	CONDUCTOR, LUMINAIRE, 3C #8 AWG	LINEAR FOOT	425
660 (18)	LIGHTING STANDARD, 35 FT POLE, 12 FT MAST ARM	EACH	1
401(7)	Asphalt Concrete, TYPE II, CLASS B CO #1	LS.	All Req'd
660(19)	Electrical Disconnect CO #1	LS.	All Req'd

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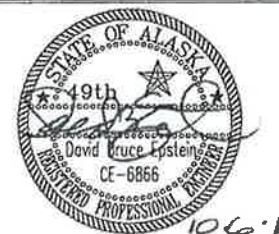
ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION

MONTANA CREEK ROAD
 INTERSECTION ILLUMINATION
 0003167 ~ 67826

ESTIMATE OF QUANTITIES



DESIGNED BY: D. EPSTEIN
 DRAWN BY: D. STEVENS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

MONTANA CREEK ROAD
 INTERSECTION ILLUMINATION

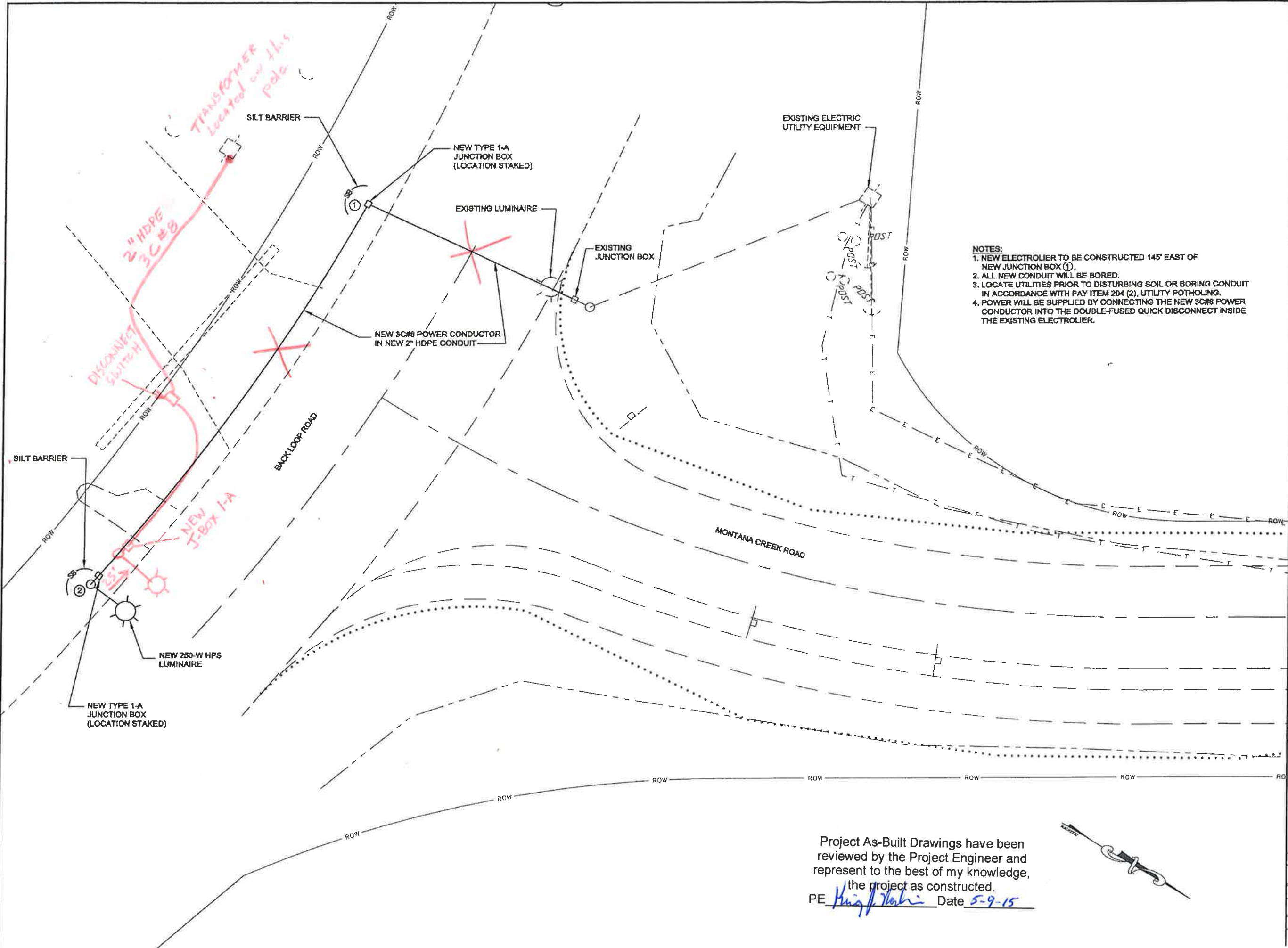
ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER
 0003167-67826

STATE	YEAR
ALASKA	2014

SHEET NUMBER	TOTAL SHEETS
D1	7

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Kraig Kishi* Date 5-9-15



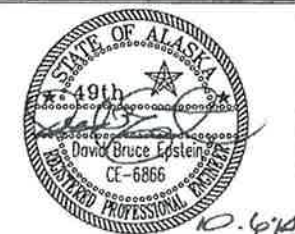
- NOTES:**
1. NEW ELECTROLIER TO BE CONSTRUCTED 145' EAST OF NEW JUNCTION BOX ①.
 2. ALL NEW CONDUIT WILL BE BORED.
 3. LOCATE UTILITIES PRIOR TO DISTURBING SOIL OR BORING CONDUIT IN ACCORDANCE WITH PAY ITEM 204 (2), UTILITY POT-HOLING.
 4. POWER WILL BE SUPPLIED BY CONNECTING THE NEW 30#8 POWER CONDUCTOR INTO THE DOUBLE-FUSED QUICK DISCONNECT INSIDE THE EXISTING ELECTROLIER.

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

MONTANA CREEK ROAD
 INTERSECTION ILLUMINATION
 0003167 ~ 67826

PLAN VIEW

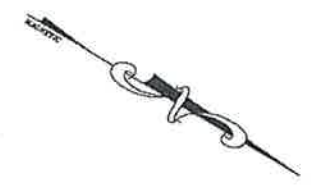


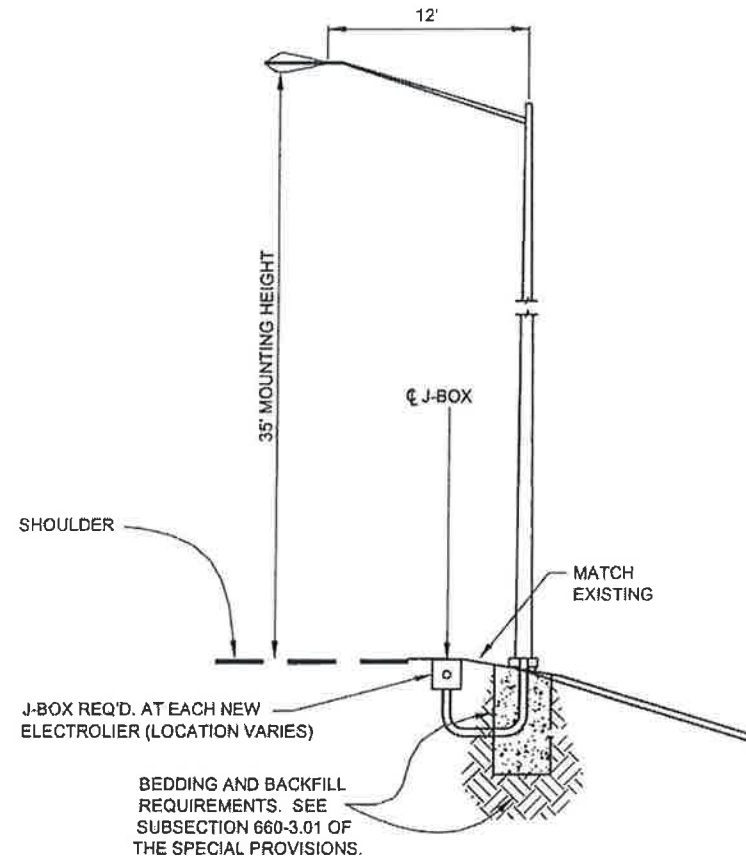
DESIGNED BY: D. EPSTEIN
 DRAWN BY: D. STEVENS
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

MONTANA CREEK ROAD
 INTERSECTION ILLUMINATION

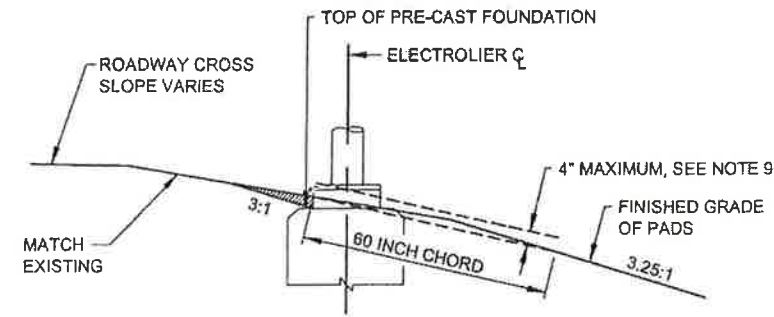
PLAN VIEW	
PROJECT DESIGNATION NUMBER	
0003167-67826	
STATE	YEAR
ALASKA	2014
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F1	7

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 PE *King Nishi* Date 5-9-15





TYPICAL SECTION FOR ELECTROLIER



FOUNDATION INSTALLATION DETAIL

INDICATES EMBANKMENT MATERIAL TO BE REMOVED FROM AROUND BREAKAWAY SKIRTS

ILLUMINATION GENERAL NOTES

1. ALL WIRING SHALL BE ENCASED IN 2" DIA. HDPE CONDUIT.
2. ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL.
3. ALL JUNCTION BOXES SHALL BE TYPE IA, SEE STANDARD DRAWING L-23.01.
4. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED THROUGH ALL CONDUITS. THE GROUND CONDUCTOR SHALL BE ATTACHED TO ALL CONDUIT END BUSHINGS AND POLES.
5. NEW ELECTROLIER FOUNDATIONS MAY BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE TRANSPORTED USING A DEVICE THAT SPREADS THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS.
6. INSTALL THE PHOTOELECTRIC CELL ON TOP OF THE ELECTROLIER POLE, NEAREST THE LOAD CENTER.
7. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG, 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 740-2.05.
8. LUMINAIRE 1 SHALL BE 120 VOLT, WITH 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, ALT-OFF, IES TYPE III. LUMINAIRES SHALL HAVE MAGNETIC REGULIATOR BALLASTS AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
9. NON-BREAKAWAY PORTIONS OF FOUNDATIONS SHALL NOT PROTRUDE MORE THAN FOUR INCHES ABOVE ANY 60 INCH CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
10. POLE AND MAST ARM WILL BE FURNISHED BY DOT & PF.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

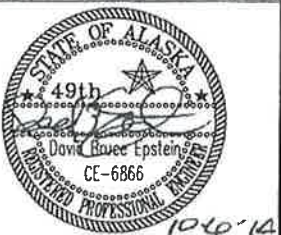
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RECORD OF REVISIONS		
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MONTANA CREEK ROAD
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ELECTROLIER DETAILS



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 INTERSECTION ILLUMINATION

ELECTROLIER DETAILS

PROJECT DESIGNATION NUMBER

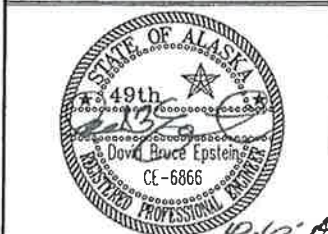
0003167~67826

STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
J1	7

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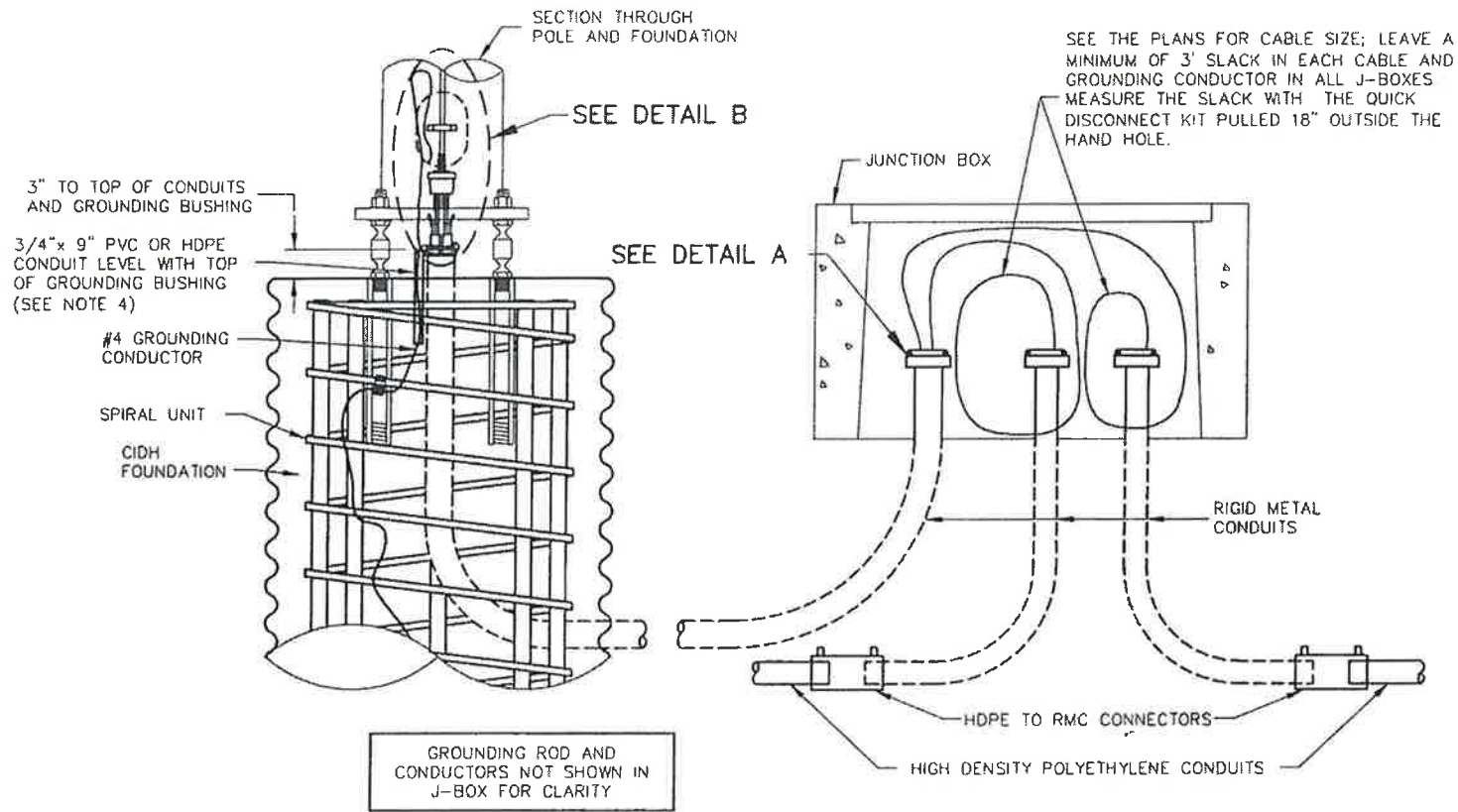
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No	DATE	DESCRIPTION

MONTANA CREEK ROAD
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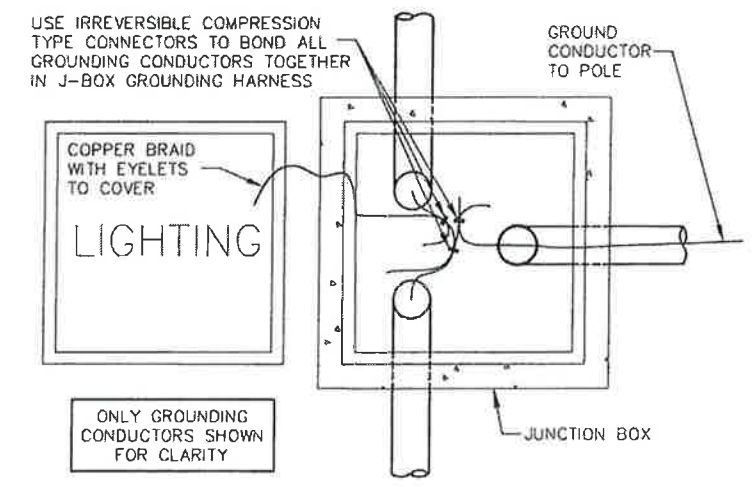


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 DRAWN BY: D. STEVENS
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 INTERSECTION ILLUMINATION

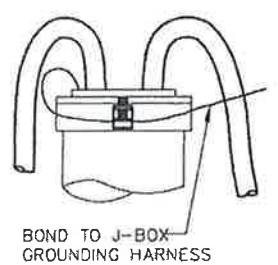
ELECTROLIER DETAILS	
PROJECT DESIGNATION NUMBER 0003167-67826	
STATE ALASKA	YEAR 2014
SHEET NUMBER J2	TOTAL SHEETS 7



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



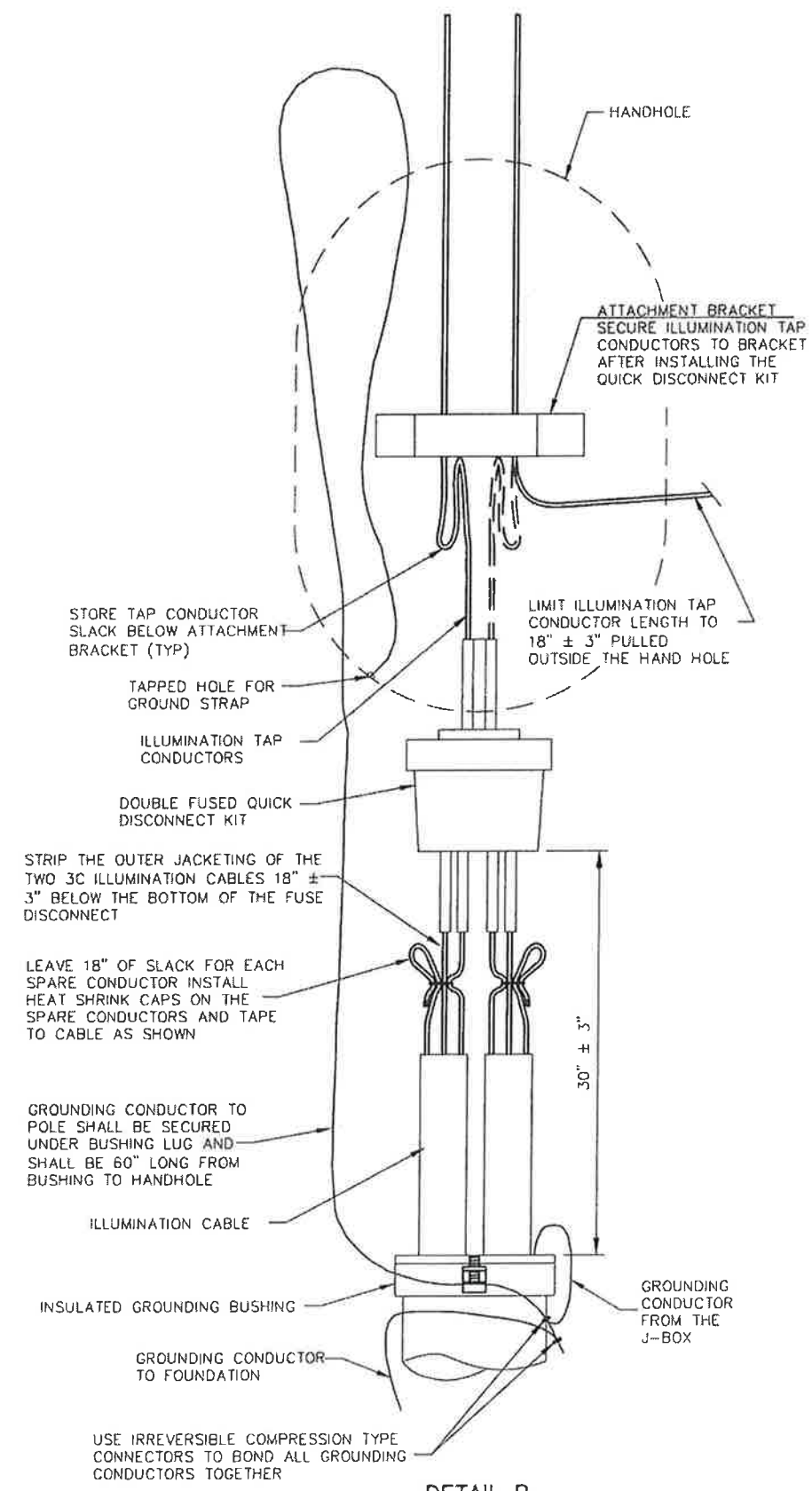
GROUNDING CONDUCTOR BONDING CONNECTIONS



DETAIL A

NOTES:

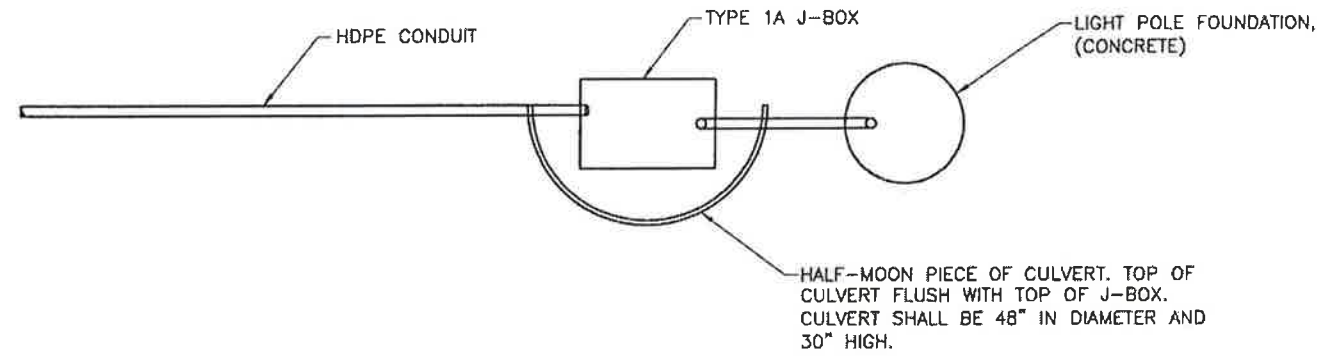
1. APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
2. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
3. MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING CONDUCTOR TO THE FOUNDATION SHALL BE #4 AWG.
4. USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. PROTECT GROUND WIRE WITH 3/4 INCH PVC OR HDPE CONDUIT TO 6 INCHES BELOW TOP OF FOUNDATION FILLED WITH SILICONE SEALANT.



DETAIL B

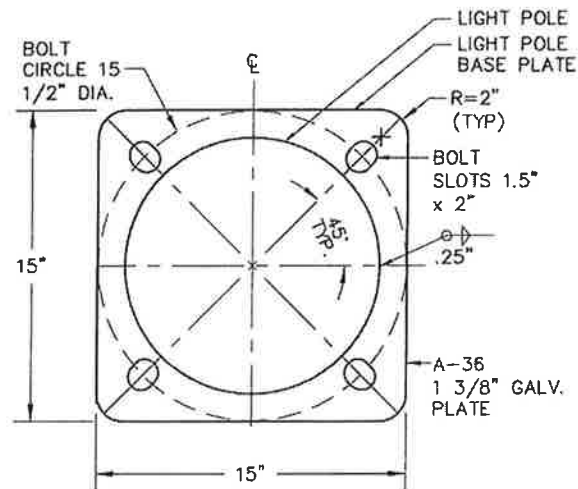
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Kraig J. Verbein* Date *5-9-15*

ELECTROLIER DETAILS



J-BOX/CONDUIT INSTALLATION DETAIL

NO SCALE



LIGHT POLE BASE DETAIL

NO SCALE

DETAIL MODIFIES STANDARD
DRAWING L-03.10
WITH BOLT SLOTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

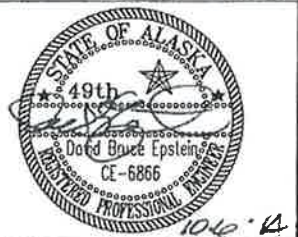
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LIGHT POLE BASE AND
J-BOX DETAILS



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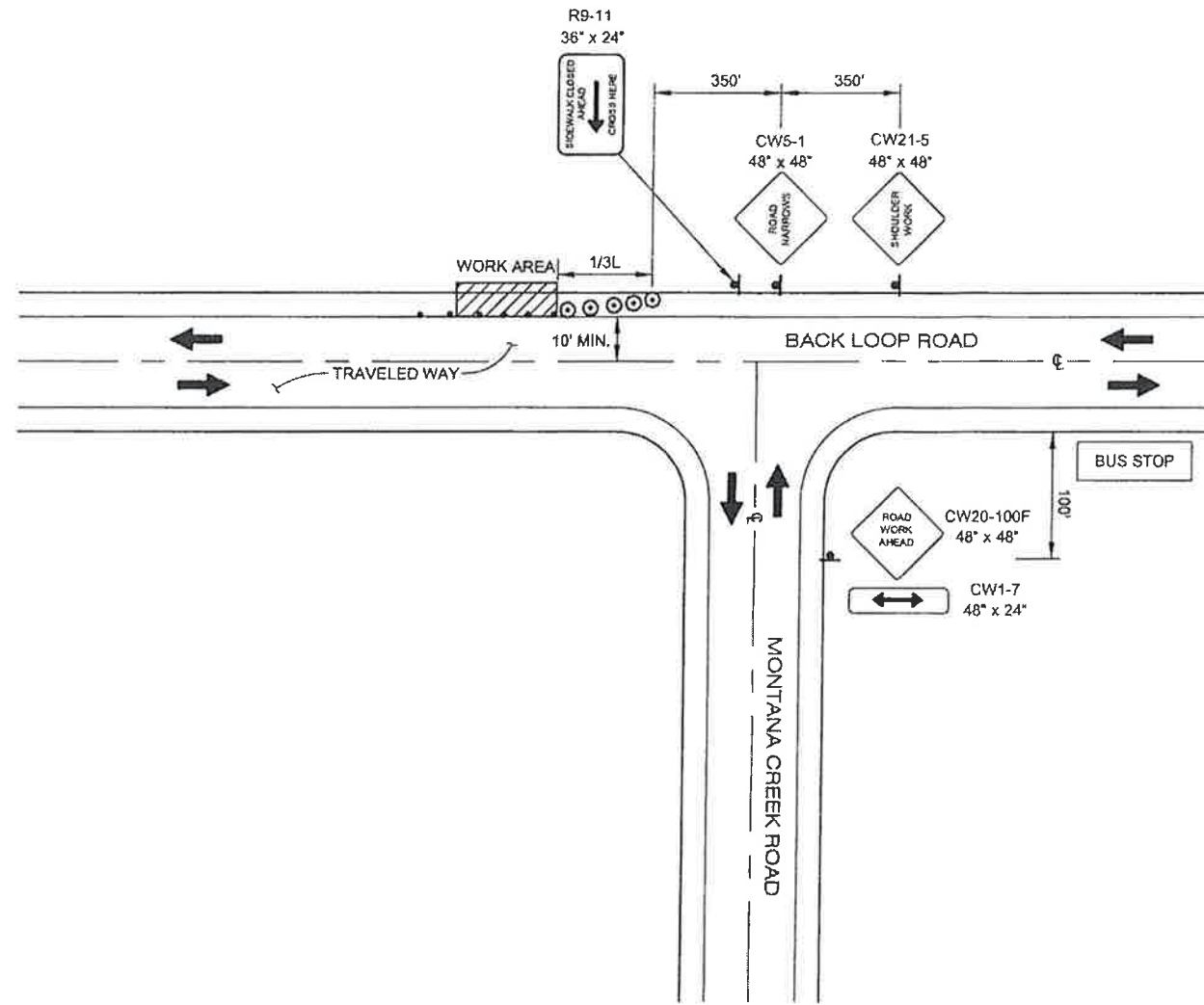
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**LIGHT POLE BASE
AND J-BOX
DETAILS**

PROJECT DESIGNATION NUMBER
0003167~67826

STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
J3	7



SHOULDER WORK

LEGEND

- ┆..... SIGN
- CONE
- ⊙..... DRUM
- ⊕..... TYPE III BARRICADE

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET WIDTH OF OFFSET (W) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
25 OR BELOW	105	115	125	6	6	6	25	50	155
30	150	165	180	6	7	7	30	60	200
35	205	225	245	7	8	8	35	70	250
40	270	295	320	8	9	9	40	80	305
45	450	495	540	11	12	13	45	90	360
50	500	550	600	11	12	13	50	100	425
55	550	605	660	11	12	13	55	110	495
60	600	660	720	11	12	13	60	120	570

TRAFFIC CONTROL NOTES:

- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
- DRIVING LANES SHALL BE A MINIMUM WIDTH OF 10' AND REMAIN OPEN AT ALL TIME.
- SEE TCP SETUP TABLE FOR TAPER AND BUFFER SPACE DIMENSIONS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE *King J. Hall* Date 8-9-15

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MONTANA CREEK ROAD
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 0003167 ~ 67826

TRAFFIC CONTROL PLANS

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012.

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 DRAWN BY: D. STEVENS
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TRAFFIC CONTROL PLANS

PROJECT DESIGNATION NUMBER	
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S1	7