

**NOTES:**

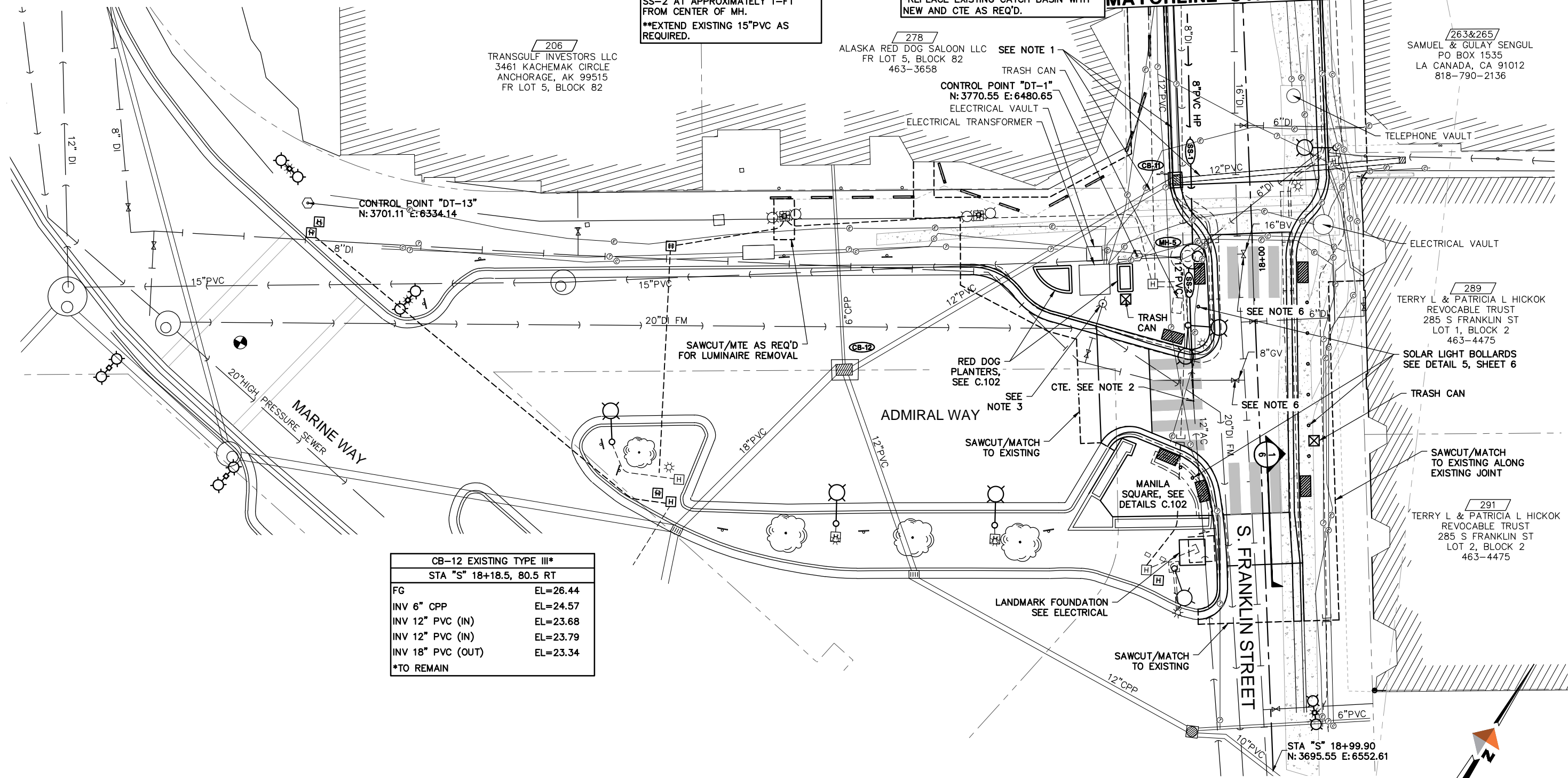
- FOR THE INSTALLATION OF SS-1, PROTECT IN PLACE OR REMOVE AND RESET THE PVC INLETS AND OUTLET AT CB-11 AS REQUIRED.
- CTE WITH AN LSS-1 STAINLESS STEEL NON-SHEAR COUPLING AT 26-FT FROM MH-5. ARC PIPE AS REQUIRED FOR CONNECTION TO MH-5 WITH A MAXIMUM DEFLECTION OF 3-DEGREES PER JOINT. 20" FORCE MAIN IS NOT IN SERVICE BUT SHALL BE PROTECTED IN PLACE DURING SEWER CONNECTION.
- CLEAN AND REPAINT FIRE HYDRANT AND INSTALL STORZ COUPLING.
- REPLACE ALL WATER MAIN AND SERVICE VALVE BOXES WITHIN THE PROJECT LIMITS.
- REPLACE ALL STORM AND SEWER SERVICE CLEANOUT FRAMES AND COVERS WITHIN THE PROJECT LIMITS.
- CONNECT EACH MAINLINE VALVE TO ITS OWN 18# ANODE BAG PER C.104

MH-5 TYPE I	
STA "S" 17+99.0, 11.7 RT	
FG	EL=27.59
INV 6"DI (IN)	EL=19.86
INV SS-1 (IN)	EL=19.68
INV SS-2 (IN)	EL=19.42
INV 15"PVC (OUT)**	EL=18.74
*CORE AND CHANNELIZE INVERT FOR SS-2 AT APPROXIMATELY 1-FT FROM CENTER OF MH.	
**EXTEND EXISTING 15"PVC AS REQUIRED.	

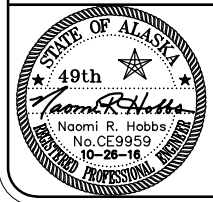
CB-11 TYPE III*	
STA "S" 17+84.0, MATCH CURB	
FG	EL=27.21
EXISTING FG	EL=26.88
INV 12" PVC (IN)	EL=24.30
INV 12" PVC (IN)	EL=24.21
INV 12" PVC (OUT)	EL=24.11
*REPLACE EXISTING CATCH BASIN WITH NEW AND CTE AS REQ'D.	

CB-12 EXISTING TYPE III*	
STA "S" 18+18.5, 80.5 RT	
FG	EL=26.44
INV 6" CPP	EL=24.57
INV 12" PVC (IN)	EL=23.68
INV 12" PVC (IN)	EL=23.79
INV 18" PVC (OUT)	EL=23.34
*TO REMAIN	

**MATCHLINE STA "S" 17+50**



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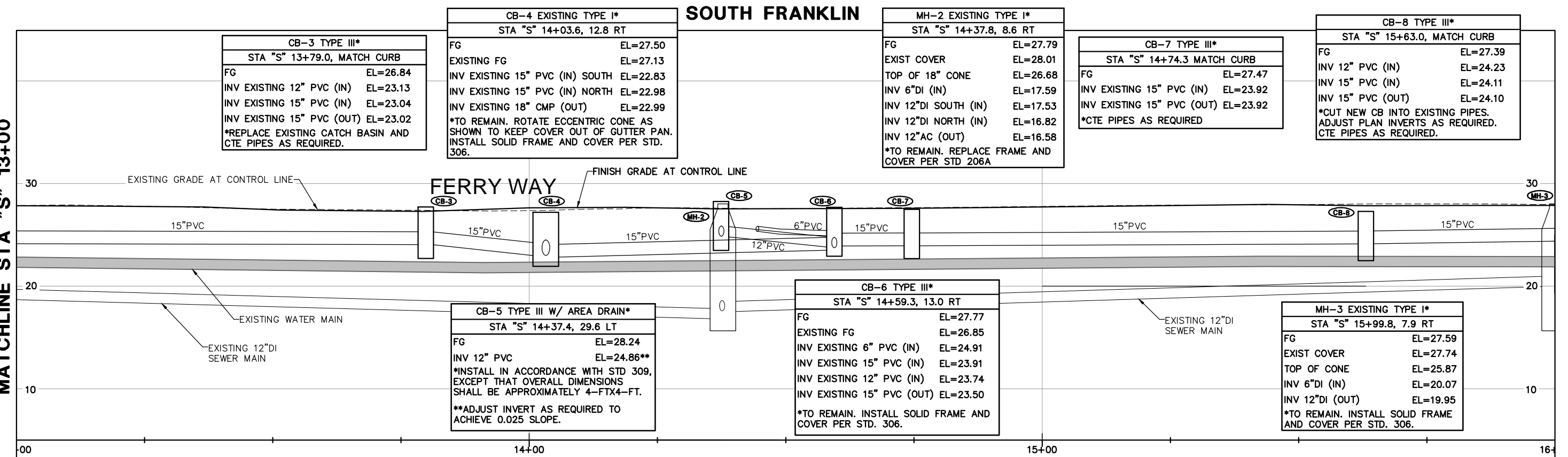
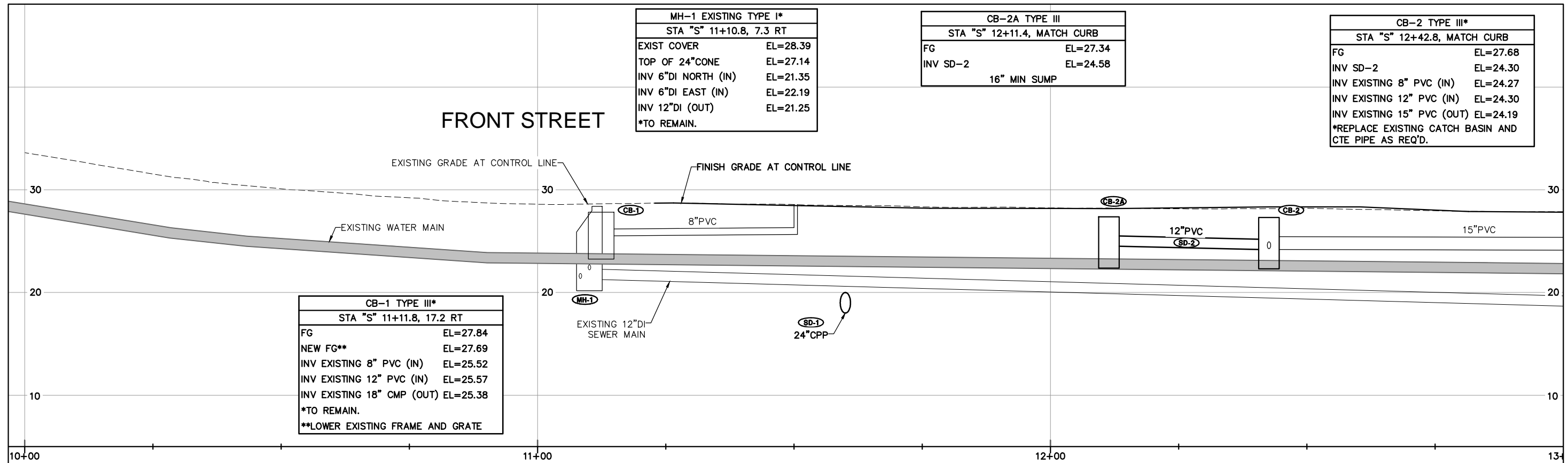
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 5368 Commercial Blvd.  
 Juneau, Alaska 99801  
 (907) 780-3533 Office  
 (907) 780-3535 Fax  
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

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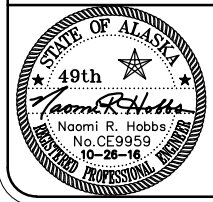
**DOWNTOWN STREET IMPROVEMENTS - PHASE I**  
**CONTRACT NO. BE17-137**

**PLAN - S. FRANKLIN STREET**  
**STA "S" 17+50 TO EOP**

SHEET NO.  
**C.304**  
 20 of 39



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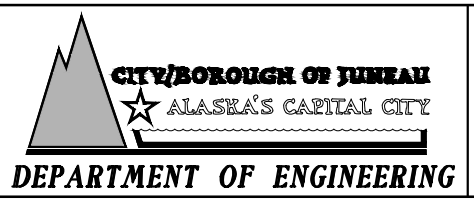


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Naomi R. Hobbs  
No. CE9959  
10-26-16

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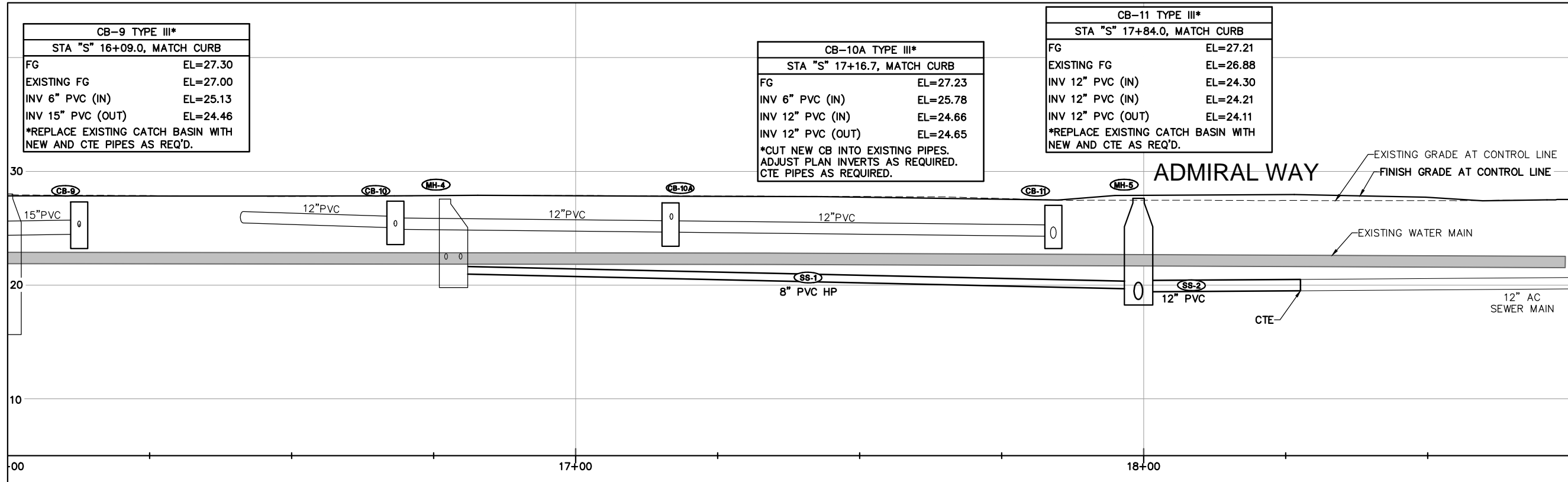


**DOWNTOWN STREET IMPROVEMENTS - PHASE I**  
CONTRACT NO. BE17-137

**PROFILE - S. FRANKLIN STREET**  
BOP TO STA "S" 16+00

SHEET NO.  
**C.401**  
21 of 39

MATCHLINE STA "S" 16+00



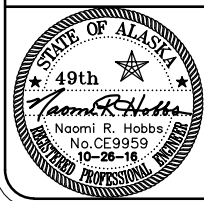
CB-10 TYPE I*	
STA "S" 16+68.2, MATCH CURB	
FG	EL=27.30
EXISTING FG	EL=27.13
INV 6" PVC (IN)	EL=25.18
INV 12" PVC (IN)**	EL=25.07
INV 8" PVC (IN)**	EL=25.07
INV 12" PVC (OUT)	EL=24.90
*REPLACE EXISTING CATCH BASIN WITH NEW TYPE I MH AND CTE PIPES AS REQ'D.	
**REMOVE THE EXISTING 12"x8" WYE AND CONNECT EACH LINE WITH A SEPARATE MANHOLE PENETRATION.	

MH-4 EXISTING TYPE I*	
STA "S" 16+78.4, 9.7 RT	
FG	EL=27.56
EXIST COVER	EL=27.56
TOP OF 24" CONE	EL=26.04
INV 6" DI NORTH (IN)	EL=22.27
INV 6" DI SOUTHWEST (IN)	EL=22.28
INV 6" DI WEST (IN)	EL=21.27
INV SS-1 (OUT)**	EL=20.97
*TO REMAIN. INSTALL SOLID FRAME AND COVER PER STD. 306.	
**REPLACE EXISTING 8" DI WITH SS-1 AT SAME INVERT ELEVATION.	

MH-5 TYPE I	
STA "S" 17+99.0, 11.7 RT	
FG	EL=27.59
INV 6" DI (IN)	EL=19.86
INV SS-1 (IN)	EL=19.68
INV SS-2 (IN)	EL=19.42
INV 15" PVC (OUT)**	EL=18.74
*CORE AND CHANNELIZE INVERT FOR SS-2 AT APPROXIMATELY 1-FT FROM CENTER OF MH.	
**EXTEND EXISTING 15" PVC AS REQUIRED.	

**SOUTH FRANKLIN**

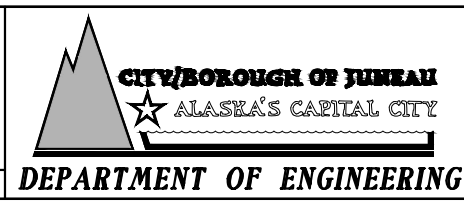
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**DOWNTOWN STREET IMPROVEMENTS - PHASE I**  
**CONTRACT NO. BE17-137**

**PROFILE - S. FRANKLIN STREET**  
**STA "S" 16+00 TO EOP**

SHEET NO. **C.402**  
**22** of **39**

## LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	21" DIA BELL DOME STYLE LED POLE MOUNTED AREA LIGHT, SPUN ALUMINUM, FLARED EDGE, TYPE 5 DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, 120/277V, IP65 RATED, PAINT FINISH PER OWNER	STERNBERG LIGHTING 1A-1521LED-F-3ARC35K-T5-F-MDL03-SV1-XXX	53W WHITE LED 3500K, CRI 80	MOUNT ON 4' ARM @ 15'-0" AFG TO BOTTOM OF LUMINAIRE UON.
B	21" DIA BELL DOME STYLE LED POLE MOUNTED AREA LIGHT, SPUN ALUMINUM, FLARED EDGE, TYPE 4 DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, 120/277V, IP65 RATED, PAINT FINISH PER OWNER	STERNBERG LIGHTING 1A-1521LED-F-3ARC35K-T4-F-MDL03-SV1-XXX	53W WHITE LED 3500K, CRI 80	MOUNT ON 4' ARM @ 15'-0" AFG TO BOTTOM OF LUMINAIRE UON.
POLE	16"x4" DIA ROUND STRAIGHT GALVANIZED STEEL WITH POWDER COAT FINISH, DECORATIVE POLE BASE, 4' ARM FOR TYPE A & B LUMINAIRES, (1 EA) BANNER ARM, (2 EA) PLANTER ARMS, FINISHES TO MATCH TYPES A & B LUMINAIRES	STERNBERG LIGHTING POLE: RSS-RSS16F400-D1-xx BASE: MONROVIA 8400 ARM: BRACKET CAS4 BANNER ARM: SBAR PLANTER ARM: DHPA	--	POLE BASES SHALL BE 12" FROM FACE OF CURB, UON. SEE DETAIL E.404.
C	0.70" x 0.63" SURFACE FIXED MOUNT LED LINEAR STRIP, EXTRUDED ALUMINUM HOUSING, FROSTED LENS, IP67 RATED, ANODIZED SILVER FINISH, WIRE LEAD ENDS, REMOTE ELECTRONIC DRIVER, 120V	LUMINI KMW-48"-35K-SO-F-F-SA-F1 PSV-40-U2ND-IP65 PSV-60-U2ND-IP65 PSV-96-U2ND-IP65	1.6W/FT WHITE LED 3500K, CRI 90	SURFACE MOUNT TO CANOPIES PER DETAILS SHEET E301, E302, E303.

**NOTES:**

- ALL LUMINAIRE MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED AND OR APPLICABLE.
- FINISH COLOR FOR POLES SHALL BE OWNER PROVIDED. FINISH FOR LUMINAIRE TYPES A AND B SHALL MATCH POLE FINISH.

### LEGEND

**ABBREVIATIONS:**

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- GFI GROUND FAULT INTERRUPTED
- HDG HOT-DIPPED GALVANIZED
- HR HOME RUN
- HOA HAND-OFF-AUTO
- PE PHOTOELECTRIC CELL
- PVC POLYVINYL CHLORIDE CONDUIT
- RSC RIGID STEEL CONDUIT
- UGE UNDERGROUND ELECTRICAL
- UON UNLESS OTHERWISE NOTED
- WP WEATHERPROOF
- XFMR TRANSFORMER

**SERVICE EQUIPMENT:**

- HANDHOLE - TYPE 1A
- TRANSFORMER
- PANELBOARD
- MAIN DISTRIBUTION PANEL
- UTILITY METER
- UTILITY POLE

**LIGHTING:**

- STRIP LUMINAIRE
- POLE MOUNTED LUMINAIRE
- BUILDING MOUNTED LUMINAIRE

**CONDUIT & CONDUCTORS:**

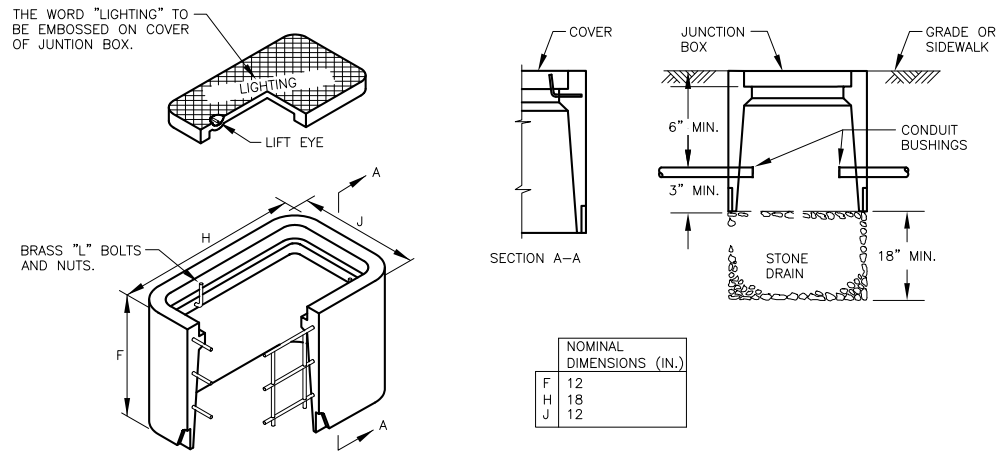
- HOME RUN
- CONDUIT: 1/2" UON.
- UNGROUND CONDUCTORS (#12 AWG)
- NEUTRAL: #10 WITH DOT  
#12 OTHERWISE
- GROUND CONDUCTOR
- CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED
- CONDUIT IN FLOOR OR UNDERGROUND
- FLEXIBLE CONDUIT

**DIAGRAM SYMBOLS:**

- CIRCUIT BREAKER
- CONTACT (N.O.) (o)
- GROUND BUS
- GROUND ROD
- METER
- TERMINAL BLOCK
- CURRENT TRANSFORMER
- TRANSFORMER

**SHEET NOTE SYMBOLS:**

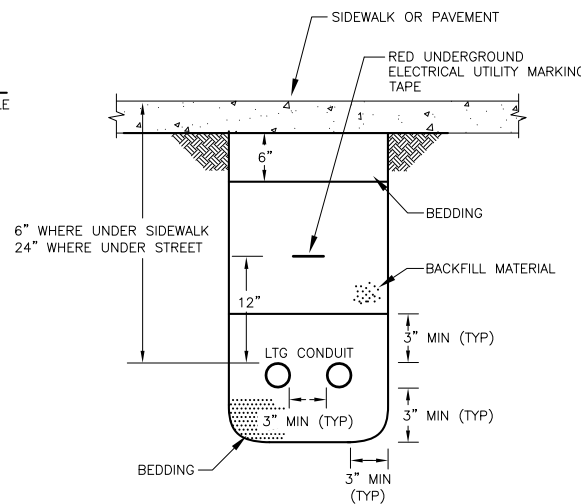
- EXISTING TO REMAIN
- NEW
- RELOCATE EXISTING
- REMOVE EXISTING



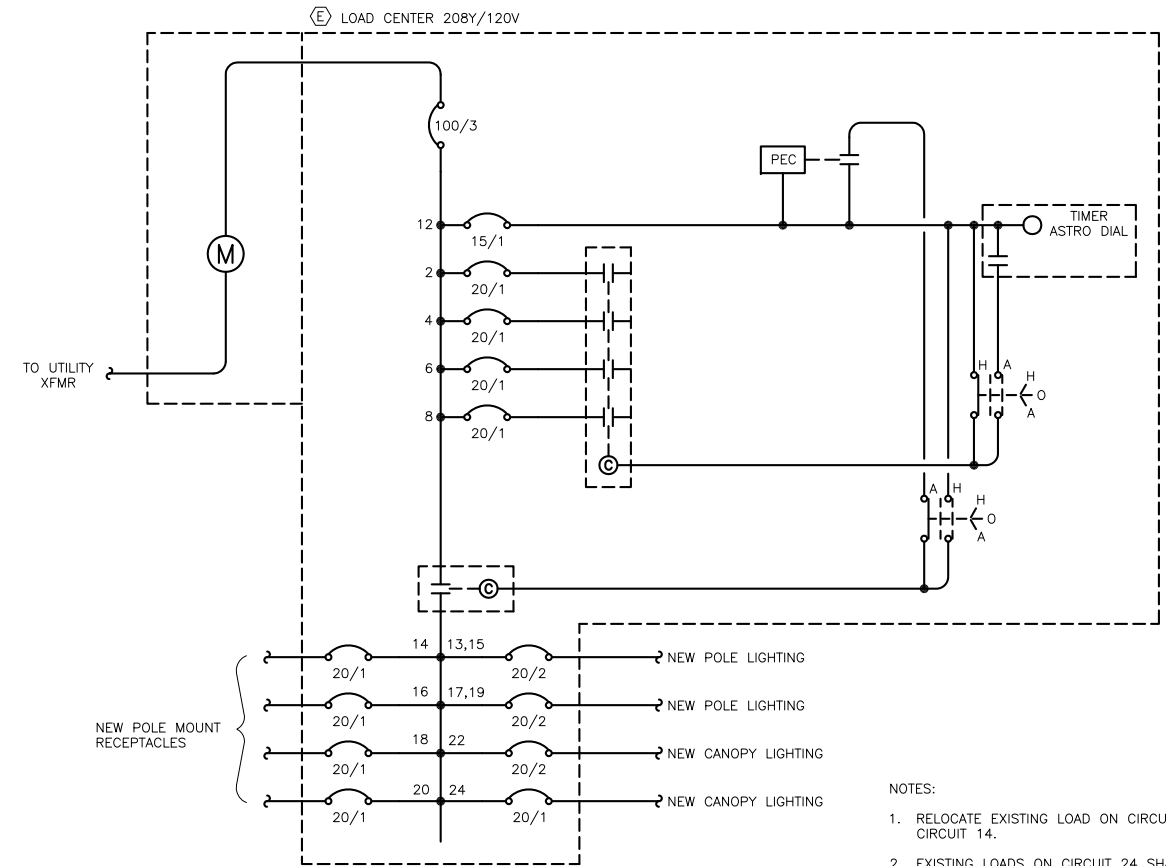
**2** DETAIL - JUNCTION BOX NO SCALE

**NOTES:**

- COVERS FOR JUNCTION BOXES SHALL BE EITHER ALUMINUM OR CAST IRON, WITH SLIP RESISTANCE.
- JUNCTION BOXES LOCATED IN A SIDEWALK SHALL BE INSTALLED WITH A 1/2" PREFORMED BITUMINOUS JOINT MATERIAL AROUND ITS PERIMETER.
- ALL GRS CONDUITS SHALL BE BONDED TO FORM A CONTINUOUS ELECTRICALLY SECURE SYSTEM WITH THE GROUND AT THE LOAD CENTER JUNCTION BOX.
- ALL JUNCTION BOX COVERS SHALL BE BONDED TO GROUND WITH COPPER BRAID OF #8 AWG CROSS SECTION. THE LENGTH SHALL BE 3 FEET.
- JUNCTION BOXES SHALL BE SET FLUSH WITH THE SURROUNDING SURFACE.



**3** DETAIL - TRENCH NO SCALE



**1** SINGLE LINE DIAGRAM - EXISTING POCKET PARK LOAD CENTER NO SCALE

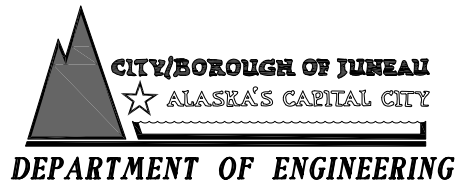
- NOTES:**
- RELOCATE EXISTING LOAD ON CIRCUIT 20 TO CIRCUIT 14.
  - EXISTING LOADS ON CIRCUIT 24 SHALL REMAIN.

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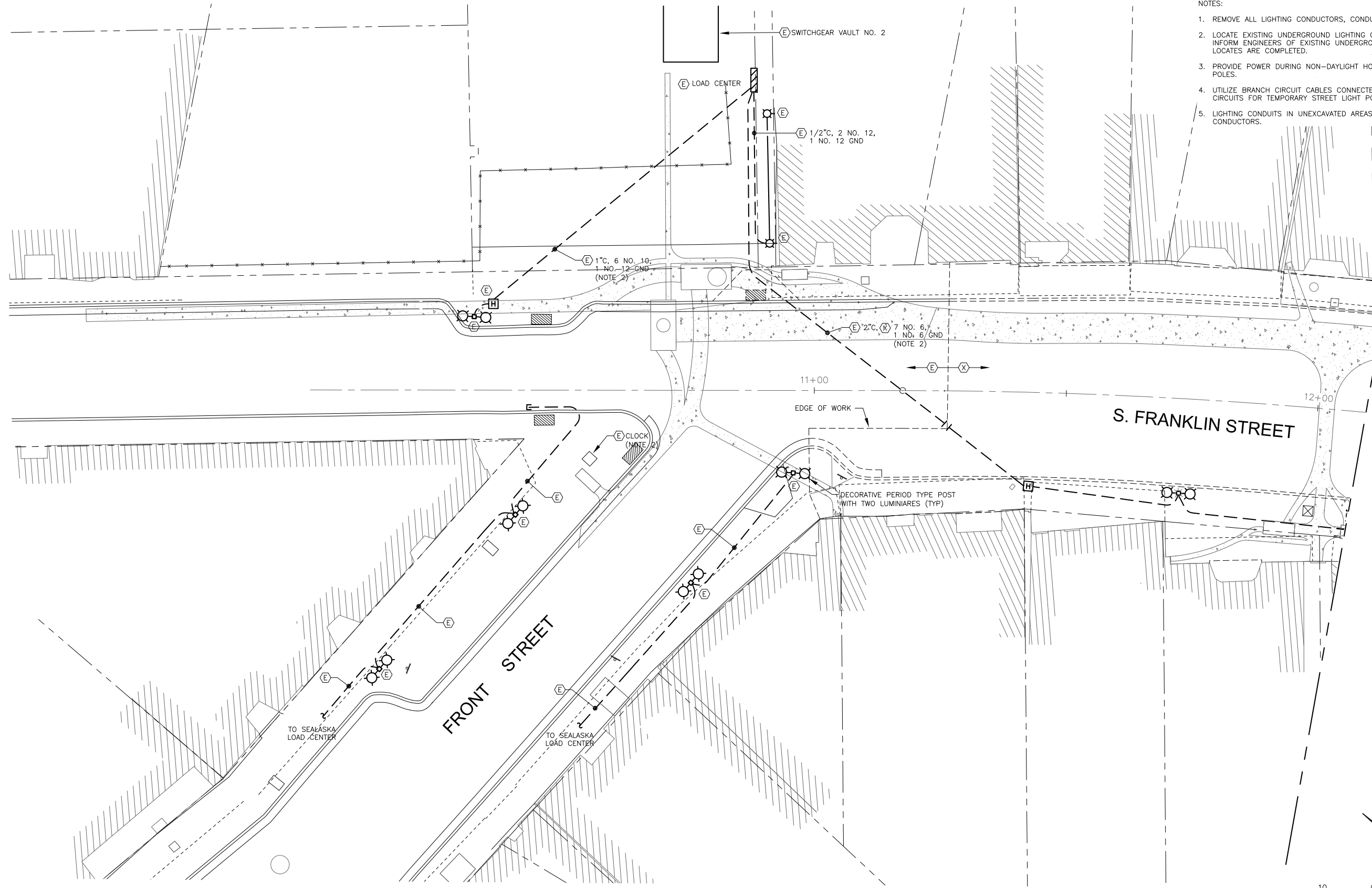
**DOWNTOWN STREET IMPROVEMENTS PHASE I CONTRACT NO. BE17-137**

**LEGEND, LUMINAIRE SCHEDULE, SINGLE LINE DIAGRAM & DETAILS**

SHEET NO. **E.001**  
**23** of **39**

Plotted 10/26/2016 12:23 PM by Peggy Leslie F:\PROJECTS\119 DOWL\26 SOUTH FRANKLIN ST. PH (\DRAWINGS\WORKING\E.101-E.104.DWG

- NOTES:
1. REMOVE ALL LIGHTING CONDUCTORS, CONDUITS, HANDHOLES AND POLES, UON.
  2. LOCATE EXISTING UNDERGROUND LIGHTING CIRCUITS BEFORE DEMOLITION WORK. INFORM ENGINEERS OF EXISTING UNDERGROUND ELECTRICAL LAYOUT AFTER LOCATES ARE COMPLETED.
  3. PROVIDE POWER DURING NON-DAYLIGHT HOURS TO EXISTING ACTIVE LIGHT POLES.
  4. UTILIZE BRANCH CIRCUIT CABLES CONNECTED TO ENERGIZED STREET LIGHTING CIRCUITS FOR TEMPORARY STREET LIGHT POWER.
  5. LIGHTING CONDUITS IN UNEXCAVATED AREAS MAY BE ABANDONED, REMOVE CONDUCTORS.



SEE SHEET E.102



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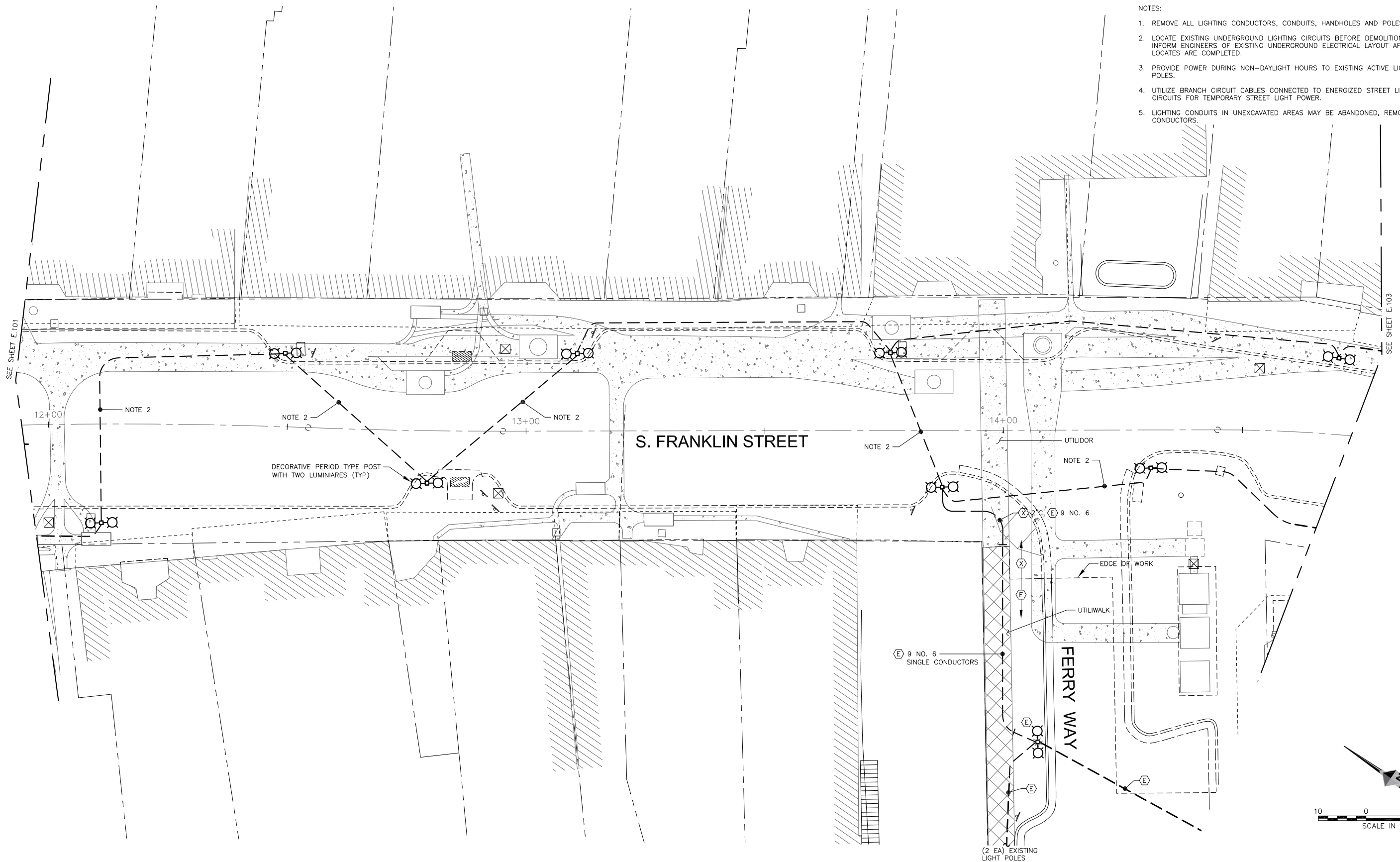
**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

**ELECTRICAL AND LIGHTING DEMOLITION**  
**PLAN - S. FRANKLIN STREET**  
**BOP TO STA "S" 12+50**

SHEET NO. **E.101**  
**24** of **39**

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- NOTES:
1. REMOVE ALL LIGHTING CONDUCTORS, CONDUITS, HANDHOLES AND POLES, UON.
  2. LOCATE EXISTING UNDERGROUND LIGHTING CIRCUITS BEFORE DEMOLITION WORK. INFORM ENGINEERS OF EXISTING UNDERGROUND ELECTRICAL LAYOUT AFTER LOCATES ARE COMPLETED.
  3. PROVIDE POWER DURING NON-DAYLIGHT HOURS TO EXISTING ACTIVE LIGHT POLES.
  4. UTILIZE BRANCH CIRCUIT CABLES CONNECTED TO ENERGIZED STREET LIGHTING CIRCUITS FOR TEMPORARY STREET LIGHT POWER.
  5. LIGHTING CONDUITS IN UNEXCAVATED AREAS MAY BE ABANDONED, REMOVE CONDUCTORS.



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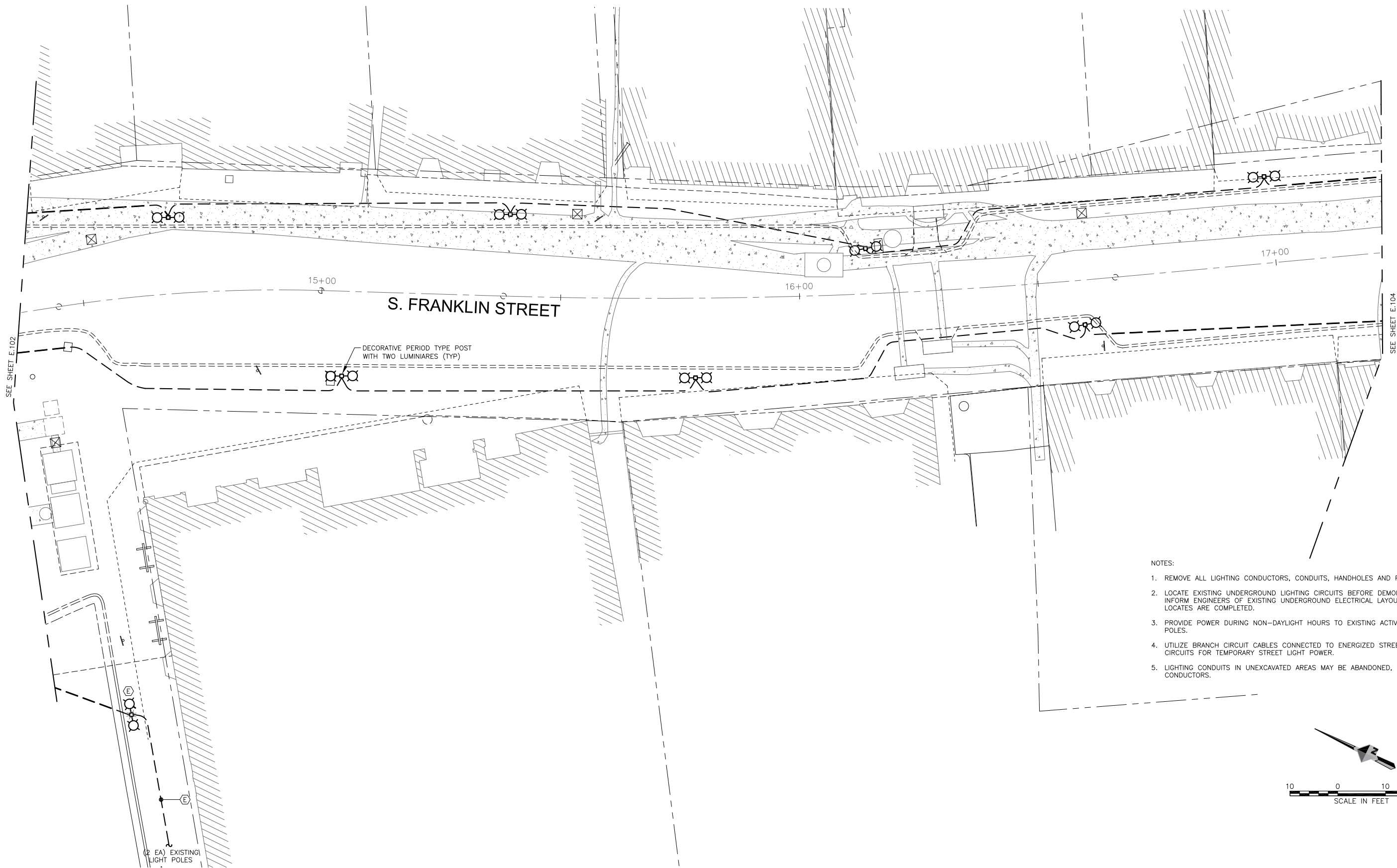
**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

**ELECTRICAL AND LIGHTING DEMOLITION**  
**PLAN - S. FRANKLIN STREET**  
**STA "S" 12+50 TO STA "S" 15+00**

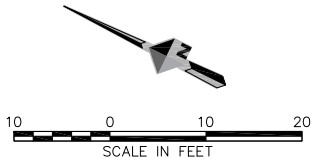
SHEET NO. **E.102**  
**25** of **39**

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- NOTES:
1. REMOVE ALL LIGHTING CONDUCTORS, CONDUITS, HANDHOLES AND POLES, UON.
  2. LOCATE EXISTING UNDERGROUND LIGHTING CIRCUITS BEFORE DEMOLITION WORK. INFORM ENGINEERS OF EXISTING UNDERGROUND ELECTRICAL LAYOUT AFTER LOCATES ARE COMPLETED.
  3. PROVIDE POWER DURING NON-DAYLIGHT HOURS TO EXISTING ACTIVE LIGHT POLES.
  4. UTILIZE BRANCH CIRCUIT CABLES CONNECTED TO ENERGIZED STREET LIGHTING CIRCUITS FOR TEMPORARY STREET LIGHT POWER.
  5. LIGHTING CONDUITS IN UNEXCAVATED AREAS MAY BE ABANDONED, REMOVE CONDUCTORS.



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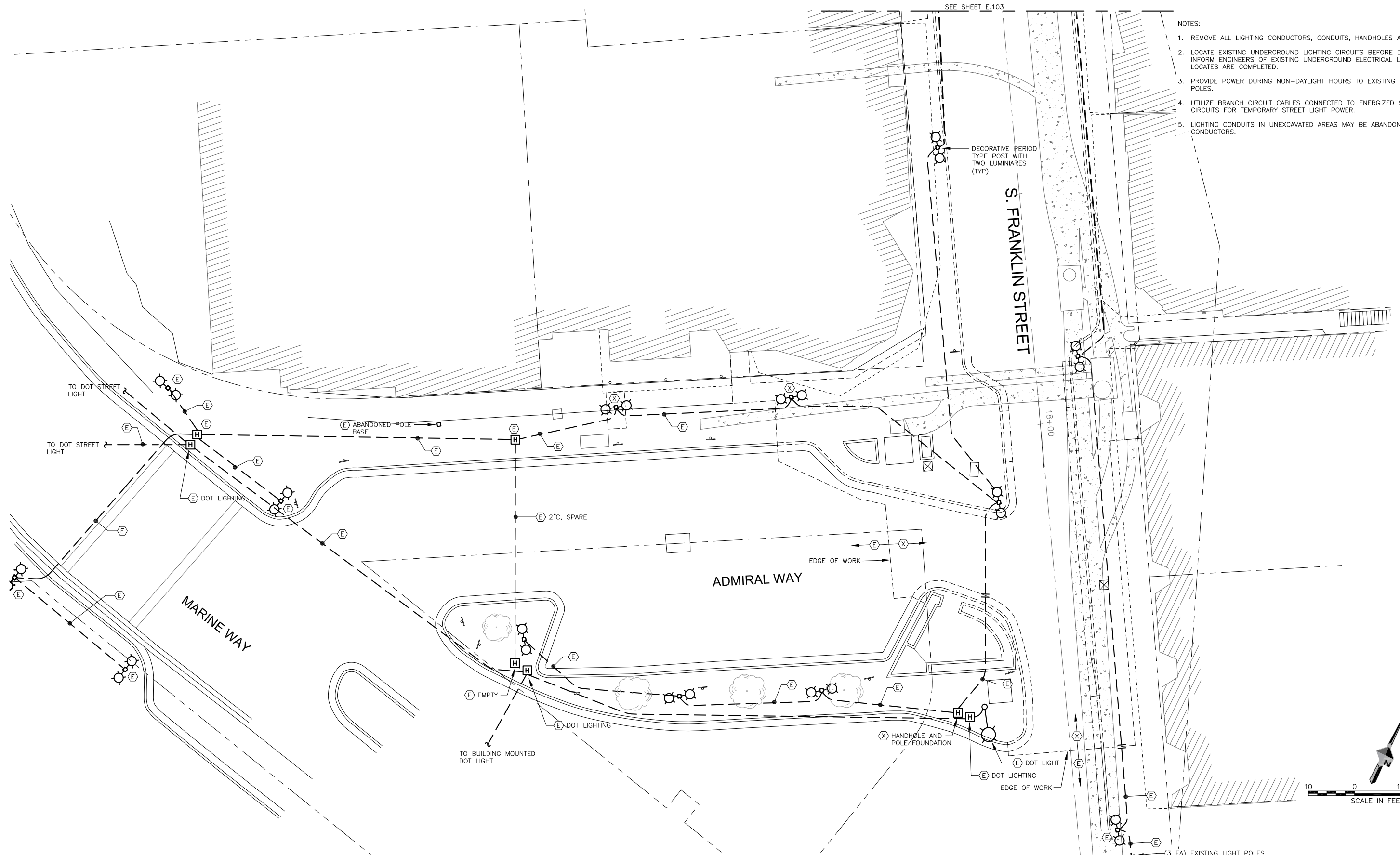
**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

**ELECTRICAL AND LIGHTING DEMOLITION**  
**PLAN - S. FRANKLIN STREET**  
**STA "S" 15+00 TO STA "S" 17+50**

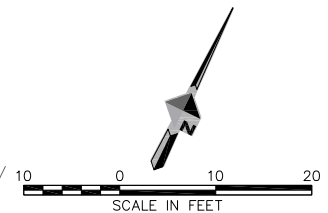
SHEET NO. **E.103**  
**26** of **39**

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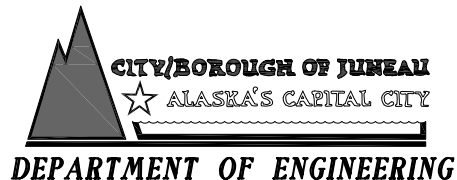


- NOTES:
1. REMOVE ALL LIGHTING CONDUCTORS, CONDUITS, HANDHOLES AND POLES, UON.
  2. LOCATE EXISTING UNDERGROUND LIGHTING CIRCUITS BEFORE DEMOLITION WORK. INFORM ENGINEERS OF EXISTING UNDERGROUND ELECTRICAL LAYOUT AFTER LOCATES ARE COMPLETED.
  3. PROVIDE POWER DURING NON-DAYLIGHT HOURS TO EXISTING ACTIVE LIGHT POLES.
  4. UTILIZE BRANCH CIRCUIT CABLES CONNECTED TO ENERGIZED STREET LIGHTING CIRCUITS FOR TEMPORARY STREET LIGHT POWER.
  5. LIGHTING CONDUITS IN UNEXCAVATED AREAS MAY BE ABANDONED, REMOVE CONDUCTORS.



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**CONTRACT NO. BE17-137**

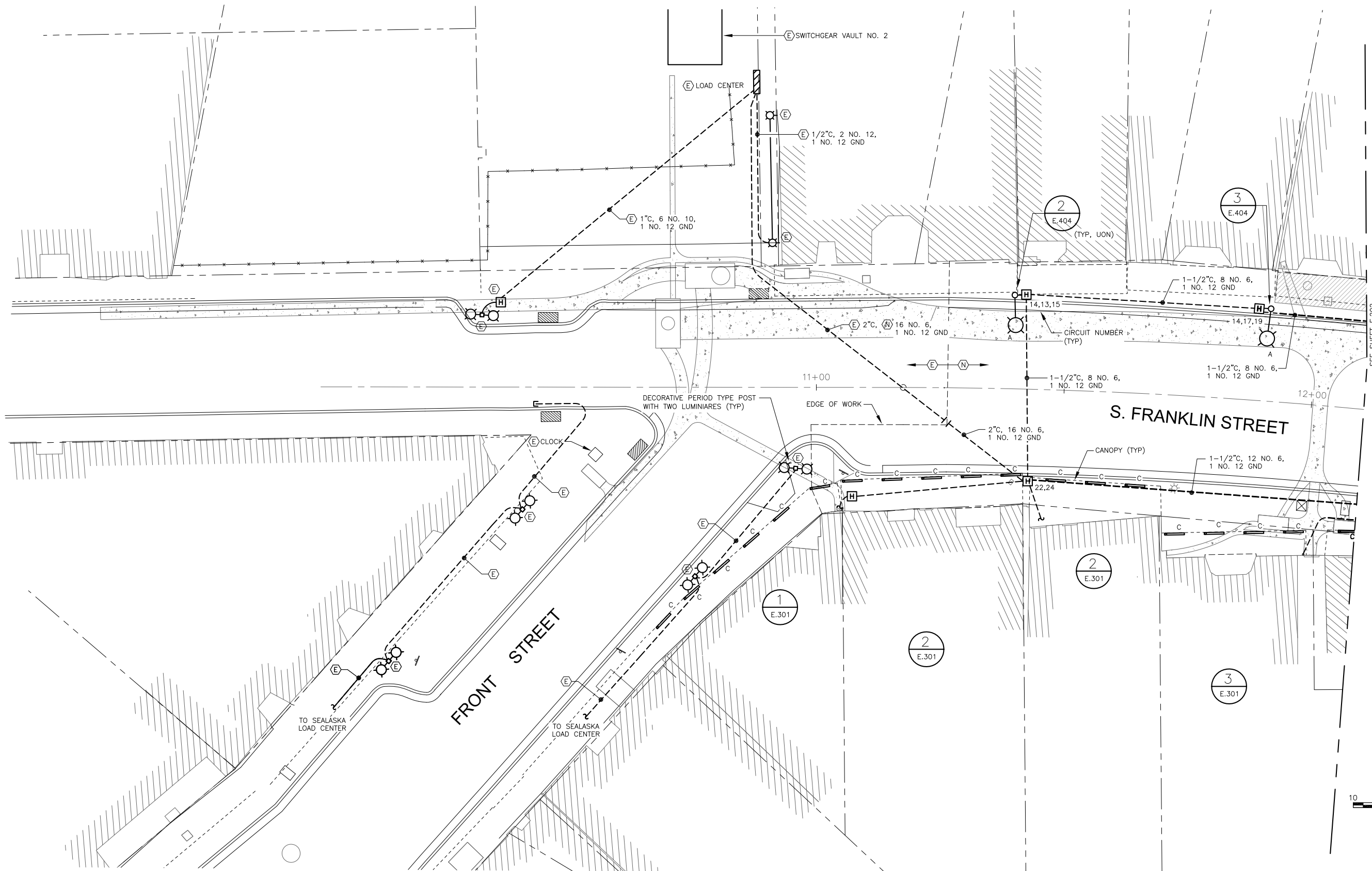
**ELECTRICAL AND LIGHTING DEMOLITION**  
**PLAN - S. FRANKLIN STREET**  
**STA "S" 17+50 TO EOP**

SHEET NO. **E.104**  
**27** of **39**

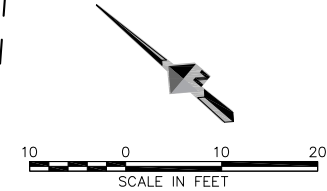
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SEE SHEET E.202



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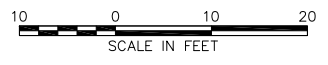
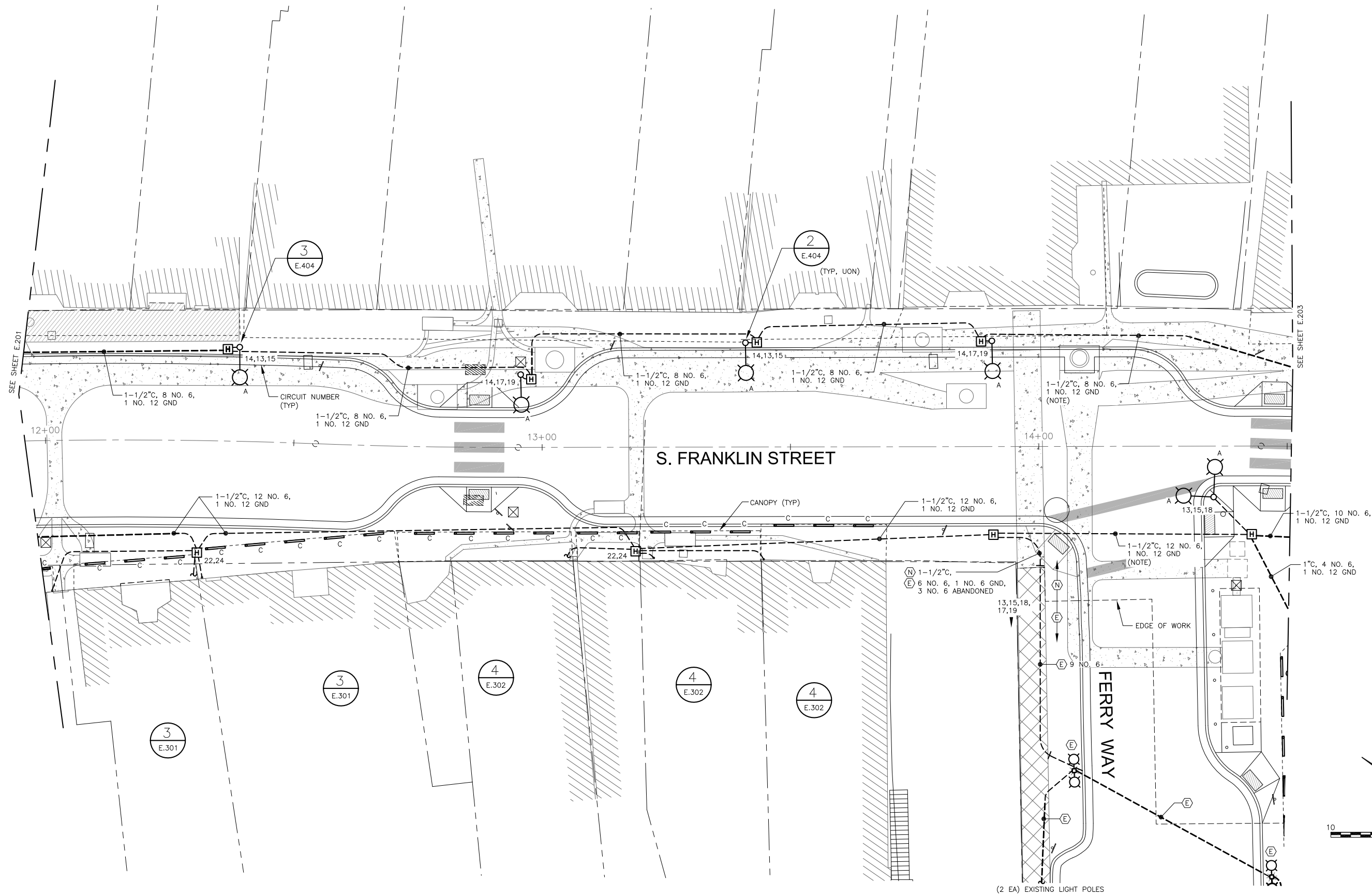
**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

**NEW ELECTRICAL AND LIGHTING PLAN - S. FRANKLIN STREET**  
**BOP TO STA "S" 12+50**

SHEET NO. **E.201**  
**28** of **39**

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016

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**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

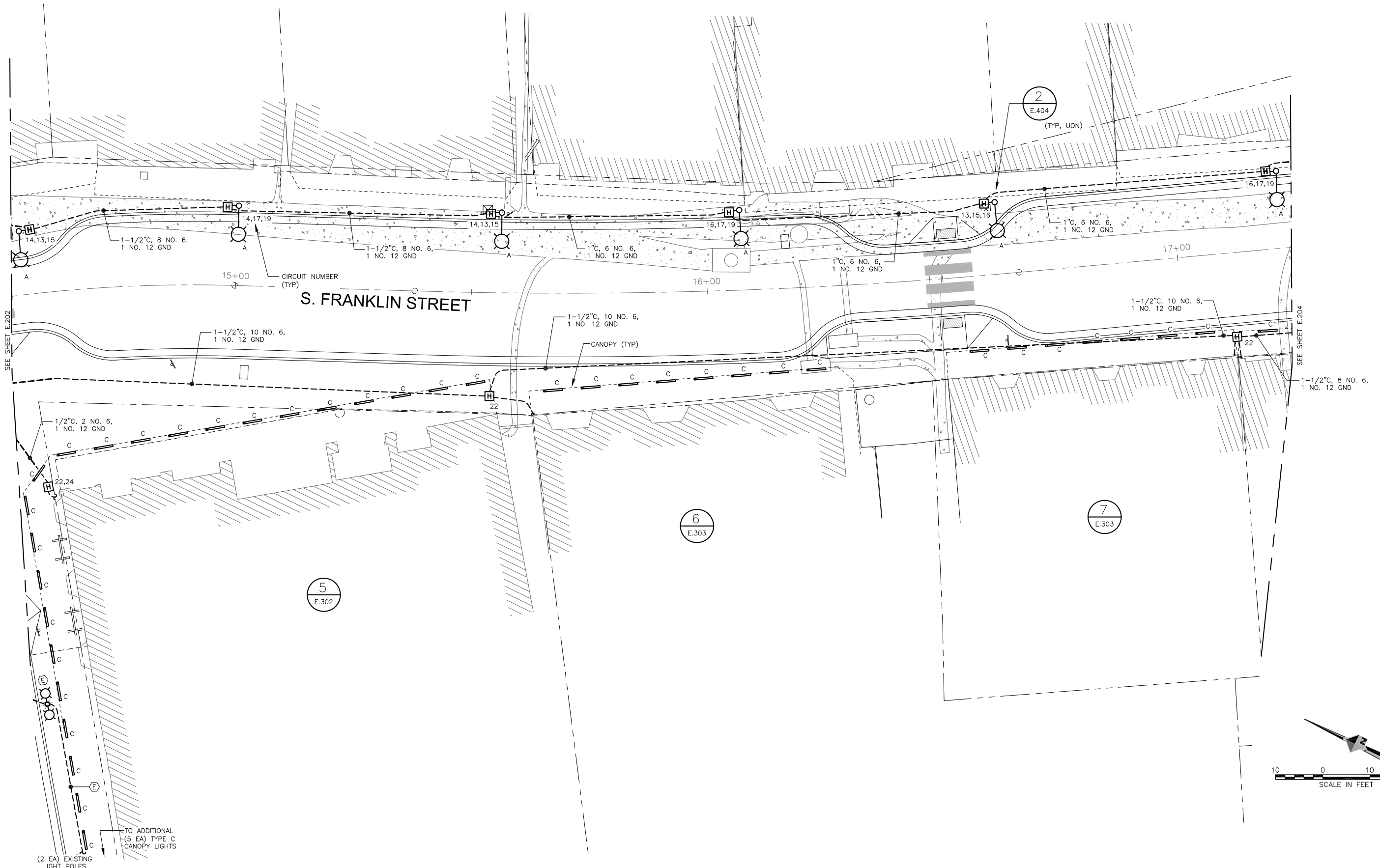
**NEW ELECTRICAL AND LIGHTING PLAN - S. FRANKLIN STREET**  
**STA "S" 12+50 TO STA "S" 15+00**

SHEET NO. **E.202**  
**29** of **39**

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016

(2 EA) EXISTING LIGHT POLES

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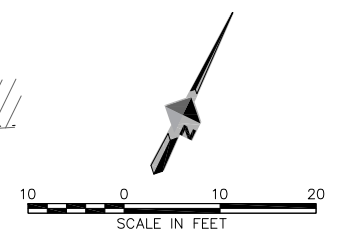
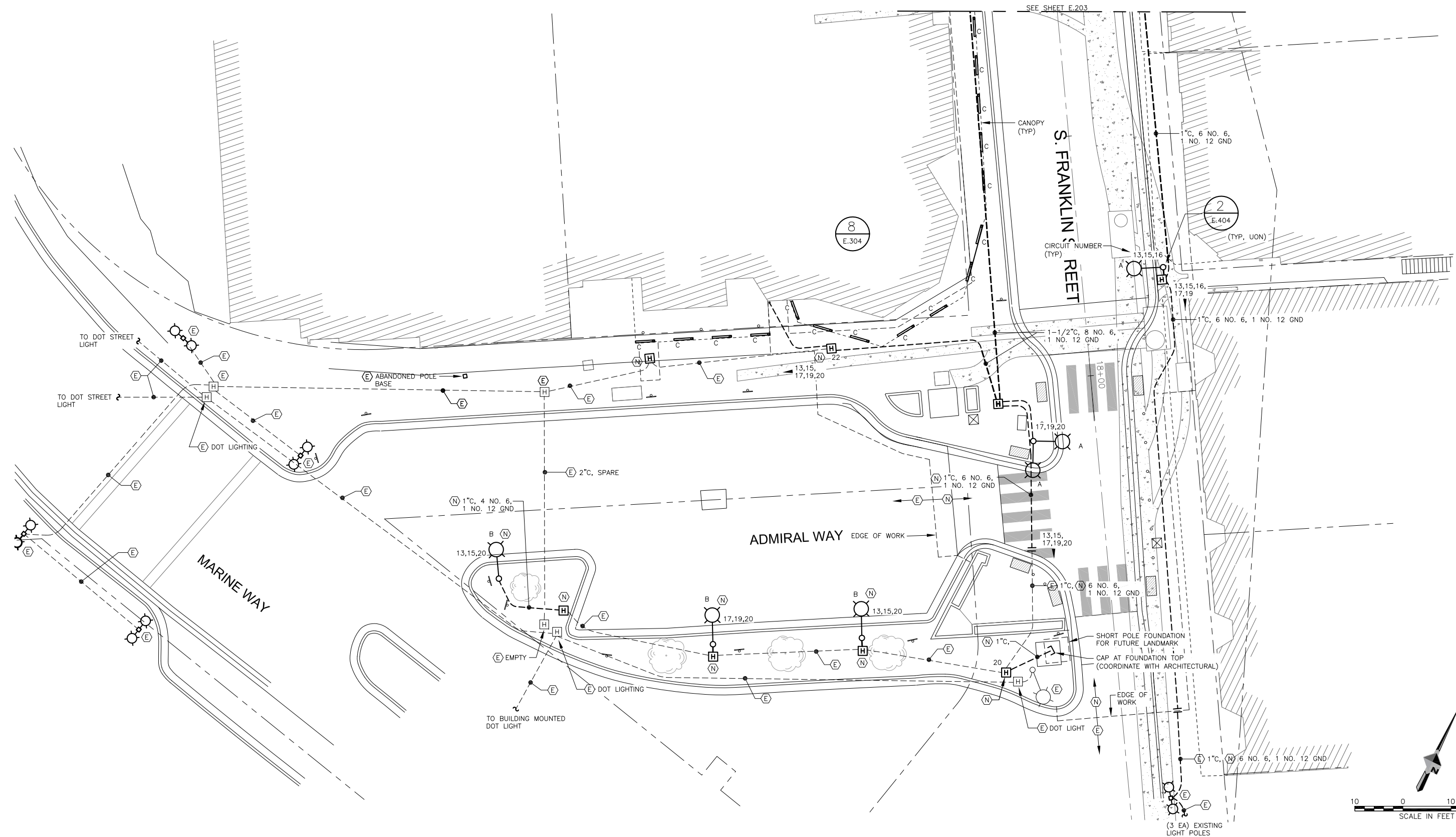
**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

**NEW ELECTRICAL AND LIGHTING PLAN - S. FRANKLIN STREET**  
**STA "S" 15+00 TO STA "S" 17+50**

SHEET NO. **E.203**  
**30** of **39**

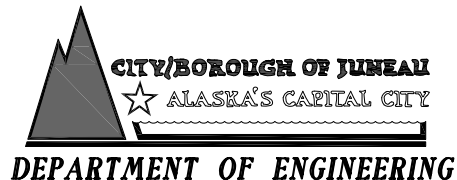
JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016

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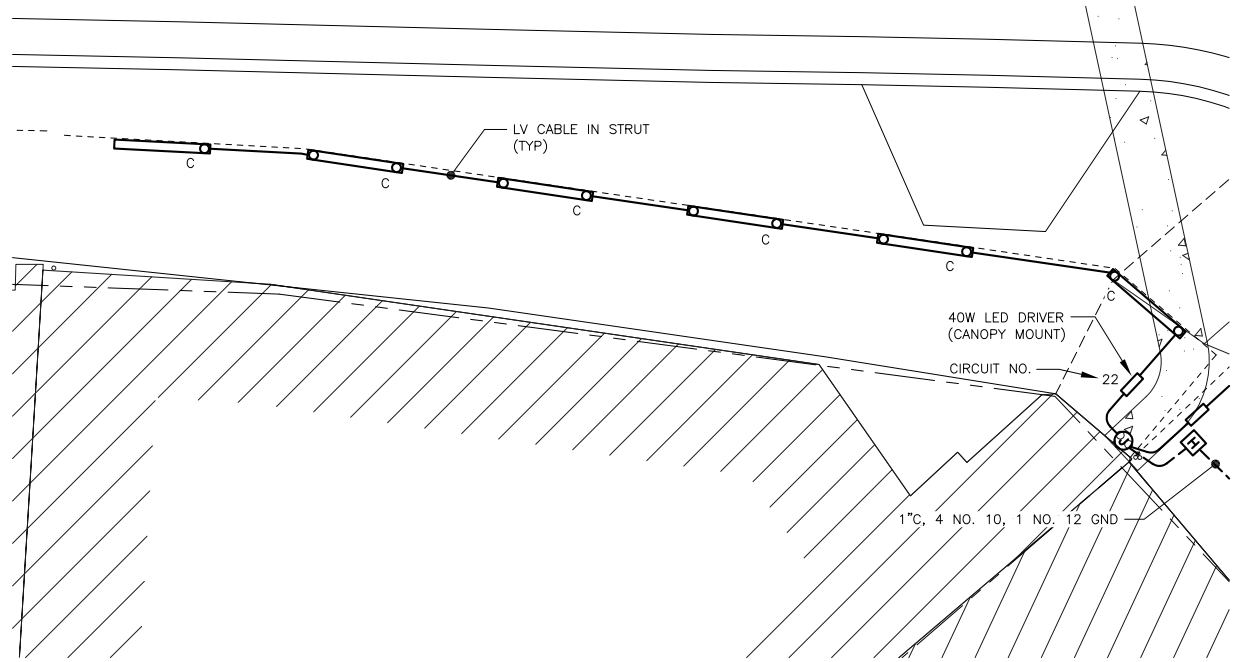


**DOWNTOWN STREET IMPROVEMENTS PHASE I  
CONTRACT NO. BE17-137**

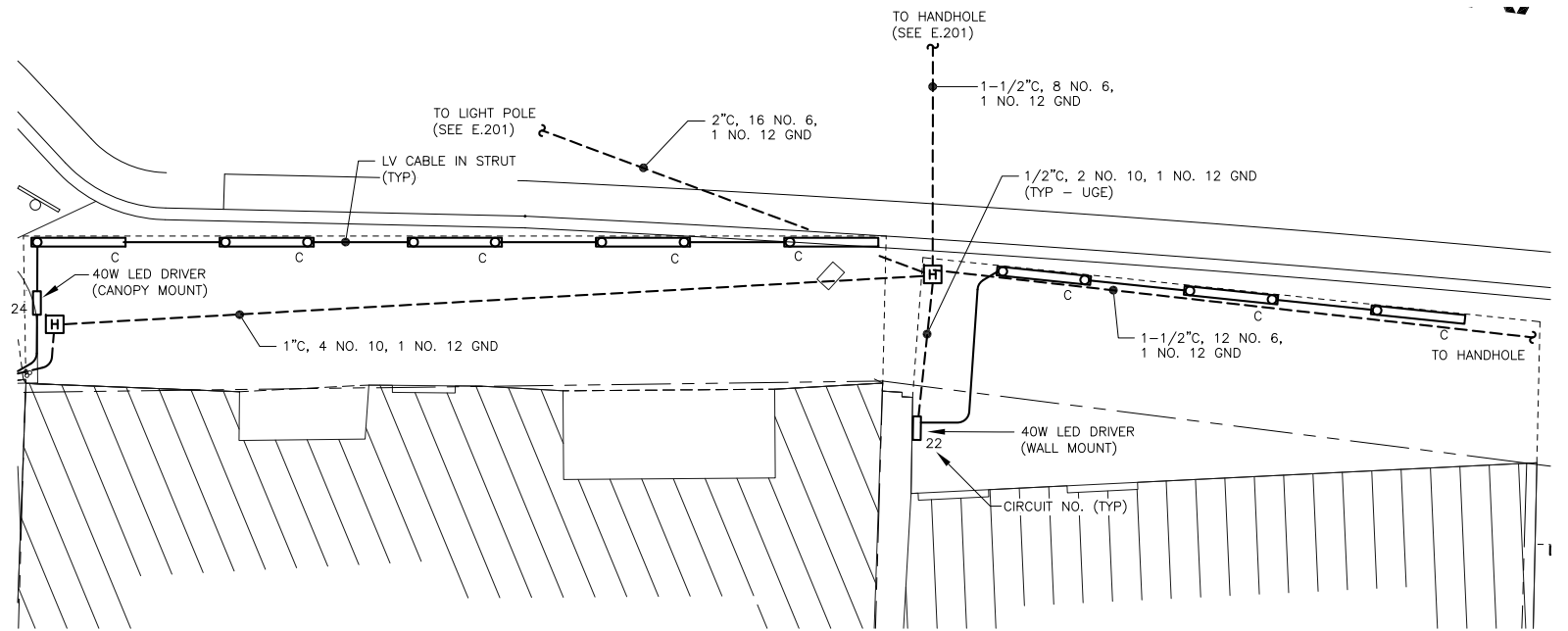
**NEW ELECTRICAL AND LIGHTING PLAN - S. FRANKLIN STREET  
STA "S" 17+50 TO EOP**

SHEET NO. **E.204**  
**31** of **39**

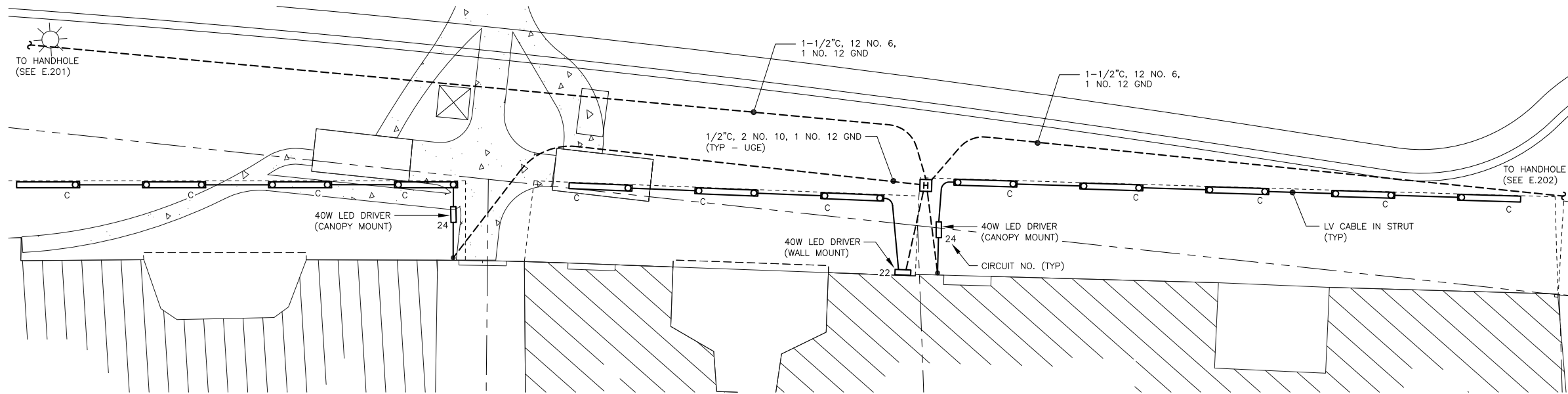
JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016



1 ENLARGED PLAN - TRIANGLE BAR CANOPY  
 SCALE IN FEET

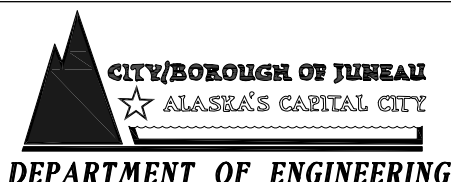


2 ENLARGED PLAN - JUNO TO GO & ALASKA LIQUOR CACHE CANOPIES  
 SCALE IN FEET



3 ENLARGED PLAN - MIDNIGHT SUN, RAINFOREST GIFTS & IMAGINATION STATION CANOPIES  
 SCALE IN FEET

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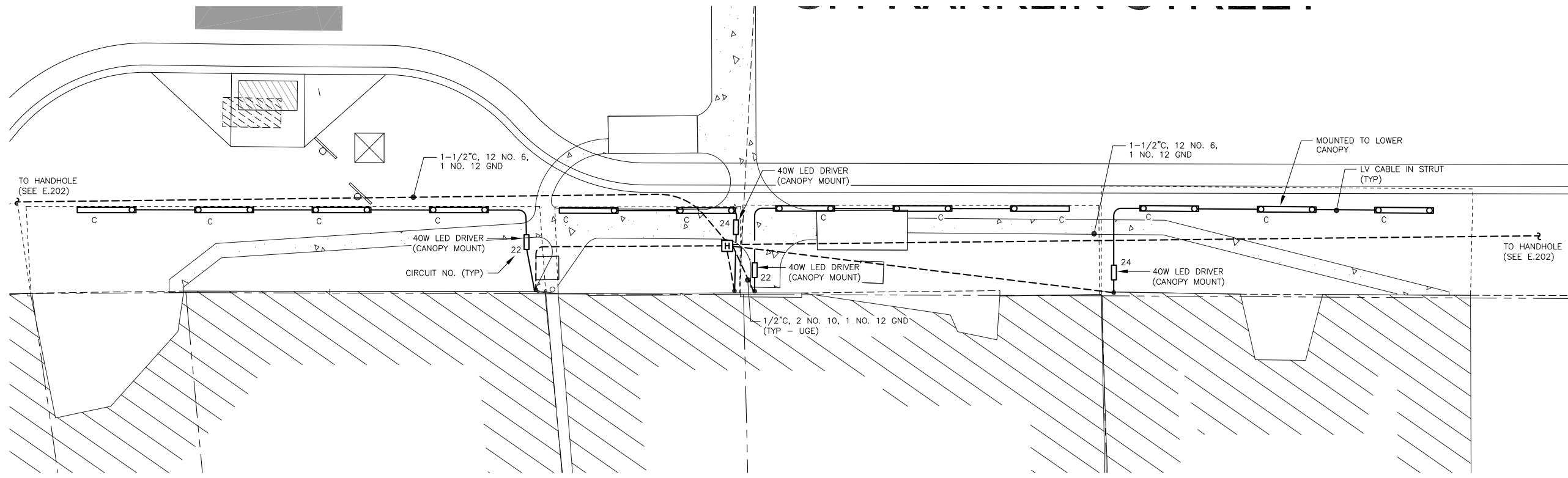


**DOWNTOWN STREET IMPROVEMENTS PHASE I CONTRACT NO. BE17-137**

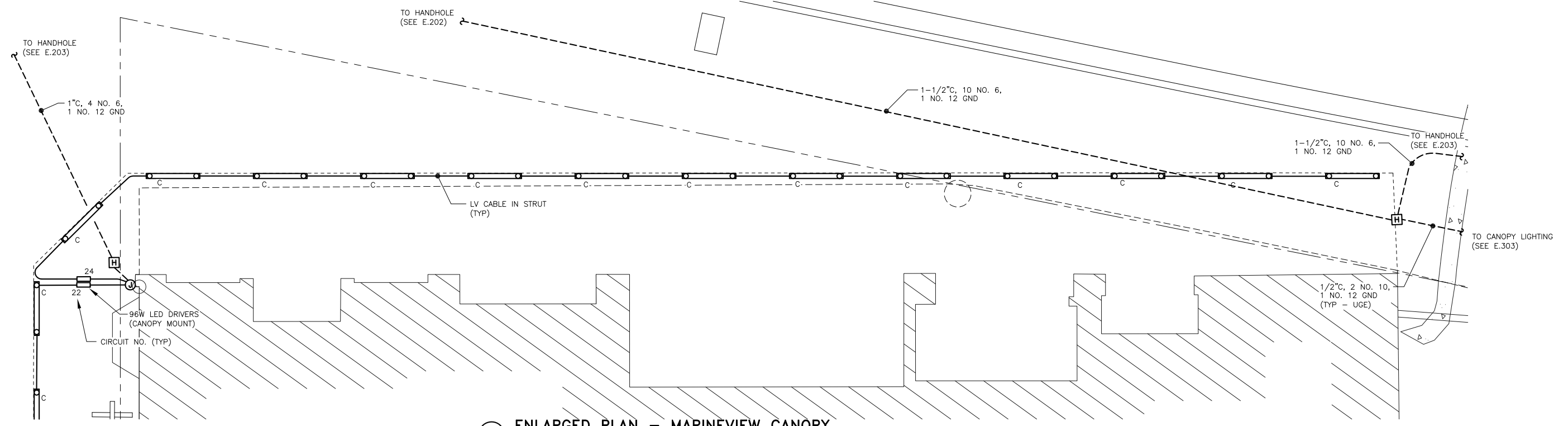
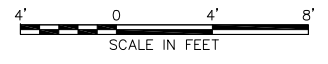
**ENLARGED CANOPY LIGHTING PLANS**

SHEET NO. **E.301**  
 32 of 39

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016



4 ENLARGED PLAN – RENDEZVOUS, ALASKAN GIFTS, LUCKY LADY & GEORGE'S GIFTS CANOPIES



5 ENLARGED PLAN – MARINEVIEW CANOPY



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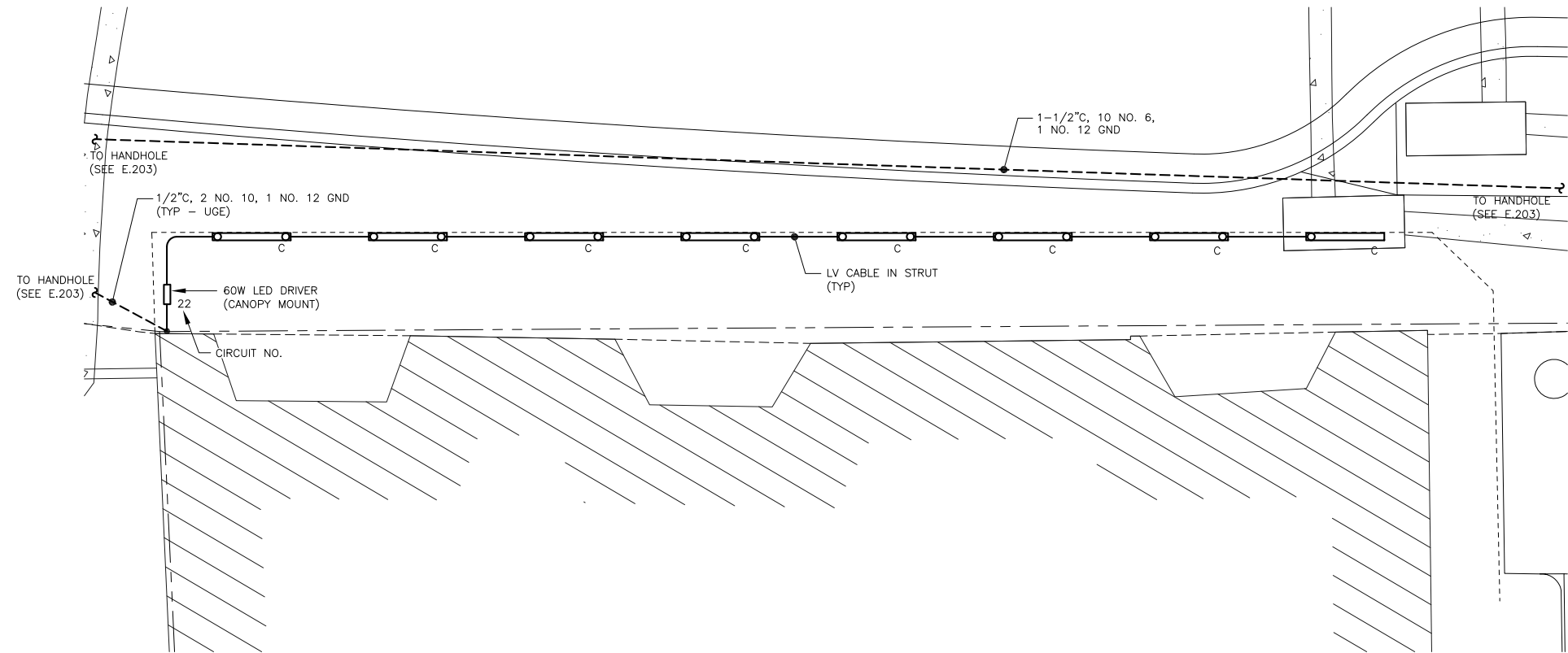
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**CONTRACT NO. BE17-137**

**ENLARGED CANOPY LIGHTING PLANS**

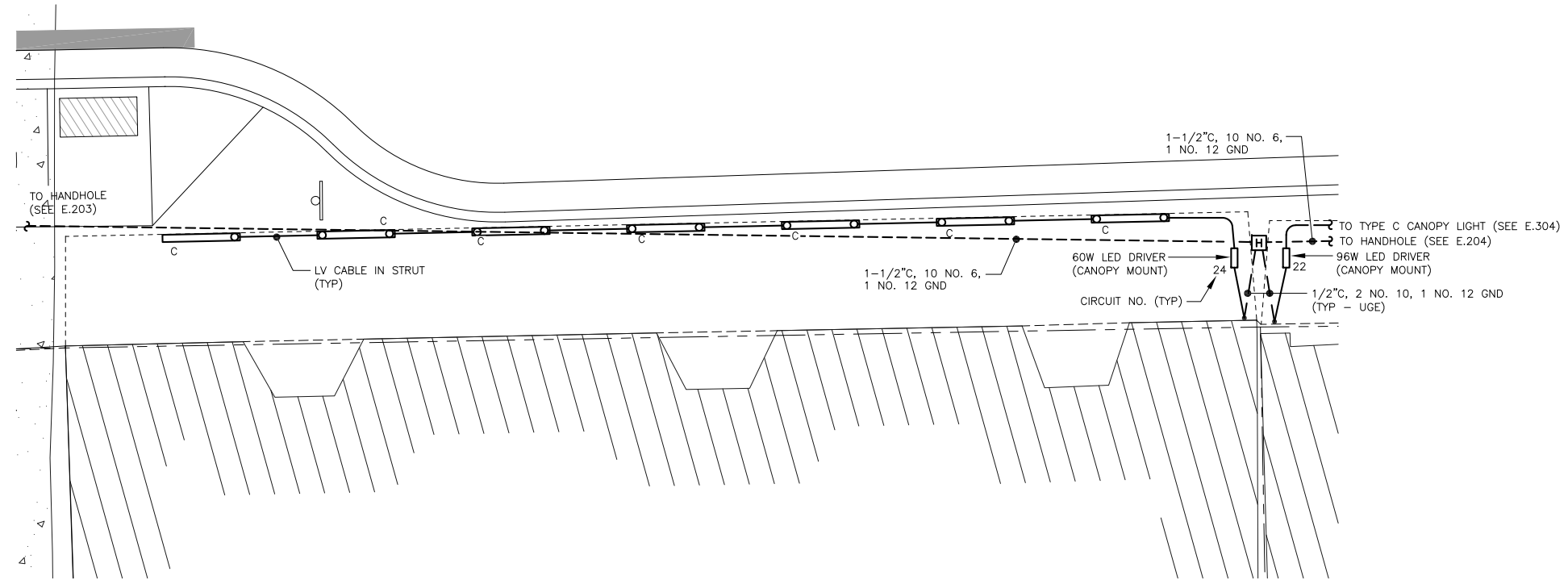
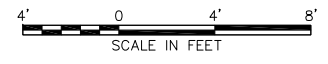
SHEET NO.  
**E.302**  
33 of 39

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016

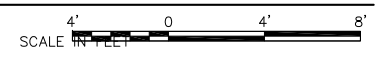
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6 ENLARGED PLAN - NORTHSTAR GIFTS CANOPY



7 ENLARGED PLAN - NORTHERN TREASURES CANOPY



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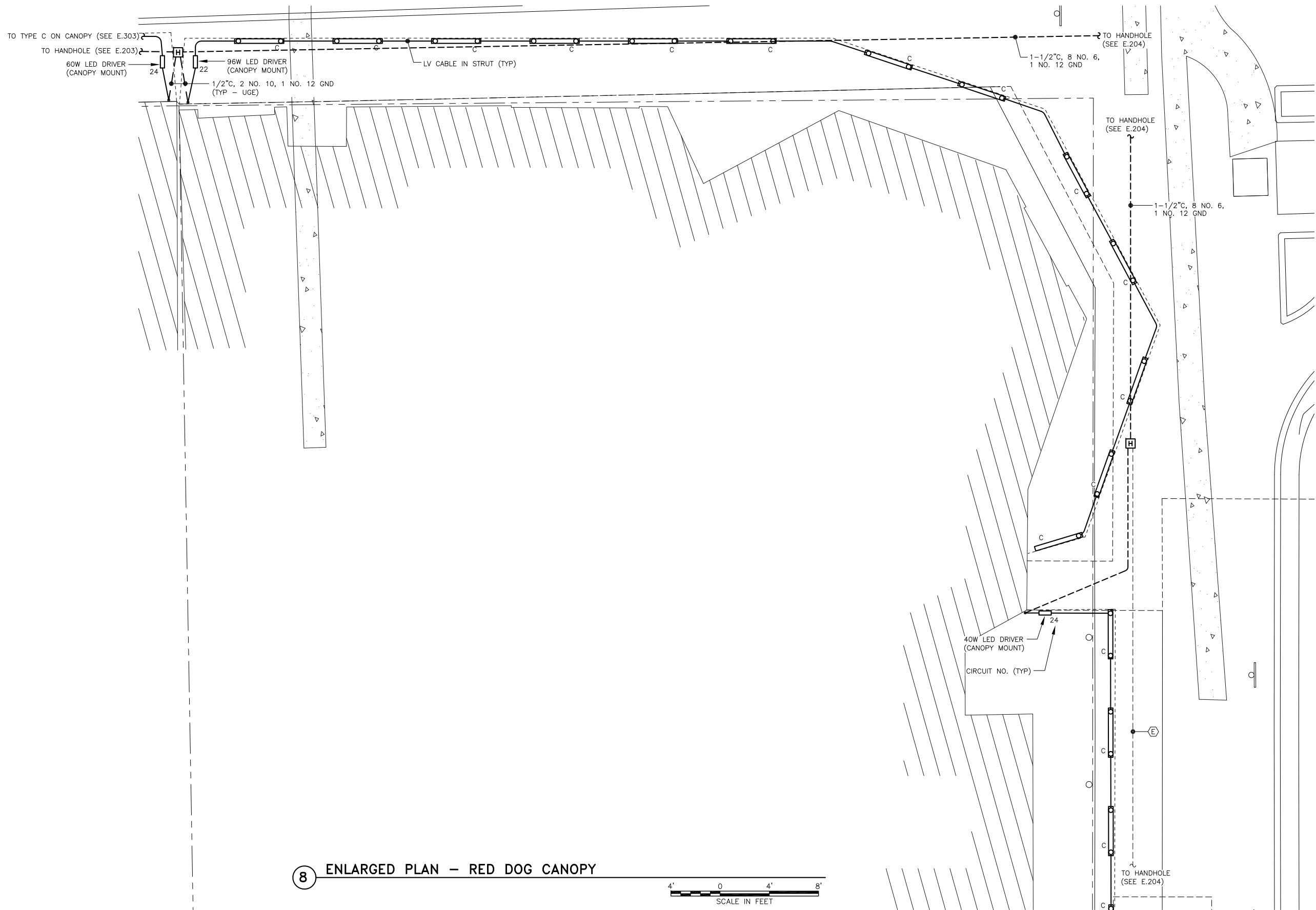
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**CONTRACT NO. BE17-137**

**ENLARGED CANOPY LIGHTING PLANS**

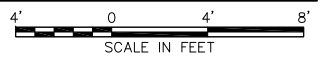
SHEET NO. **E.303**  
**34** of **39**

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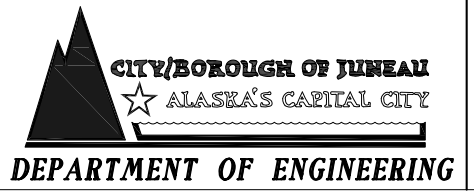


8 ENLARGED PLAN - RED DOG CANOPY



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**CONTRACT NO. BE17-137**

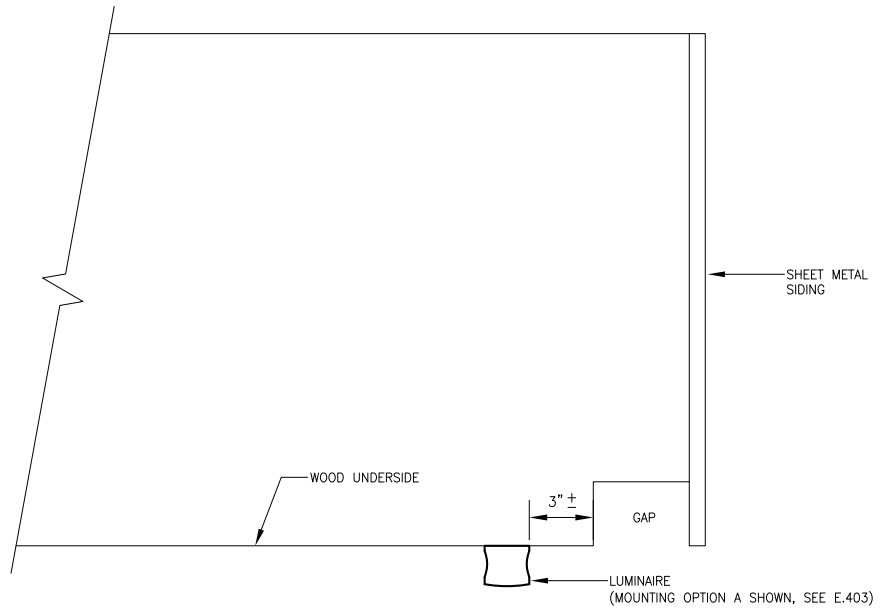
**ENLARGED CANOPY LIGHTING PLANS**

SHEET NO. **E.304**  
 35 of 39

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016

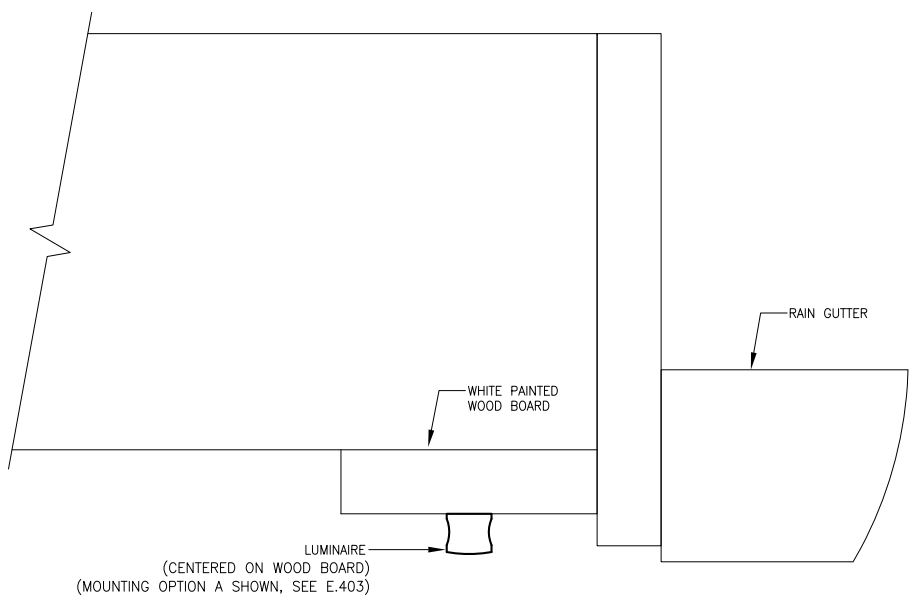


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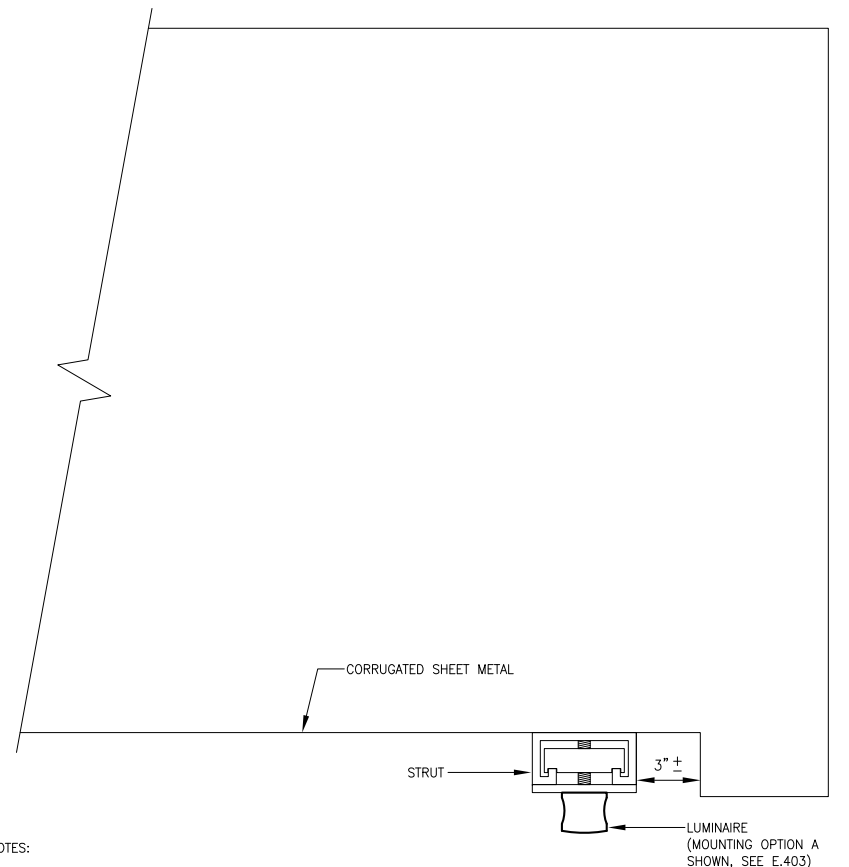
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**1** DETAIL – TRIANGLE BAR CANOPY  
NO SCALE



NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

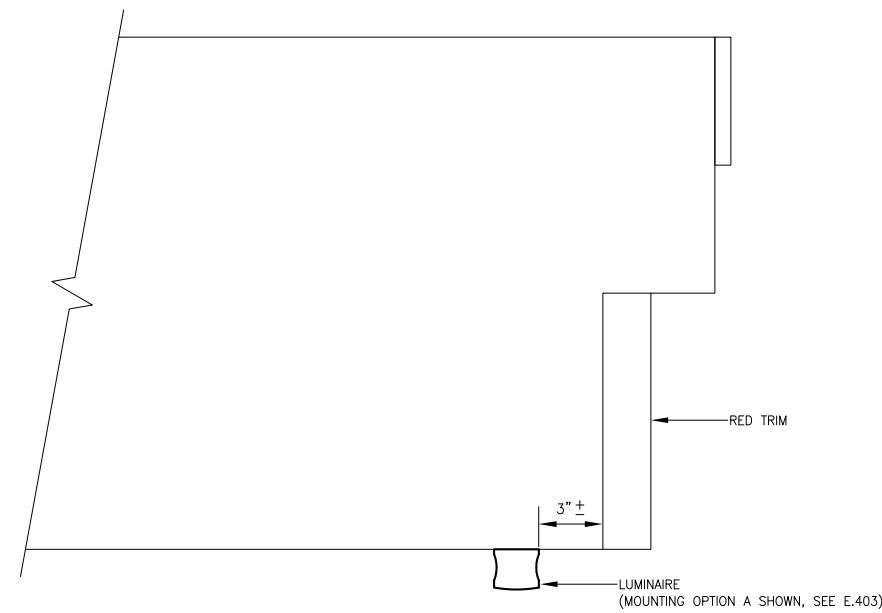
**2** DETAIL – JUNO TO GO CANOPY  
NO SCALE



NOTES:

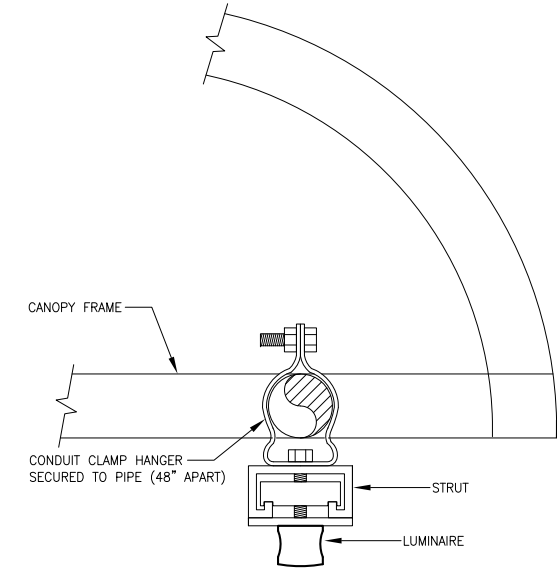
1. SECURE LUMINAIRE TO STRUT. SEE MANUFACTURER'S INSTRUCTIONS.
2. PLACE LUMINAIRE CABLES INSIDE STRUT CHANNEL AND INSTALL ALUMINUM STRUT CHANNEL CLOSURE STRIP OVER STRUT CHANNEL OPENING. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.
3. SECURE STRUT TO SHEET METAL WITH A SHEET METAL SCREW AT THE LOWEST POINT OF EACH RIDGE.

**3** DETAIL – ALASKA LIQUOR CACHE CANOPY  
NO SCALE



NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

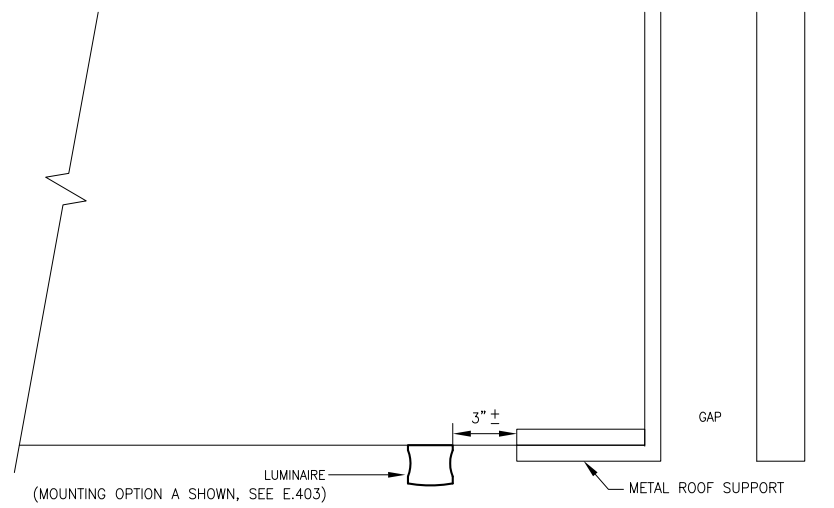
**4** DETAIL – MIDNIGHT SUN CANOPY  
NO SCALE



NOTES:

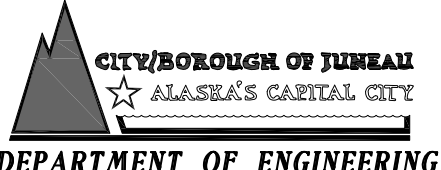
1. SECURE LUMINAIRE TO STRUT. SEE MANUFACTURER'S INSTRUCTIONS.
2. PLACE LUMINAIRE CABLES INSIDE STRUT CHANNEL AND INSTALL ALUMINUM STRUT CHANNEL CLOSURE STRIP OVER STRUT CHANNEL OPENING. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.

**5** DETAIL – RAINFOREST GIFTS CANOPY  
NO SCALE



NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**6** DETAIL – IMAGINATION STATION CANOPY  
NO SCALE



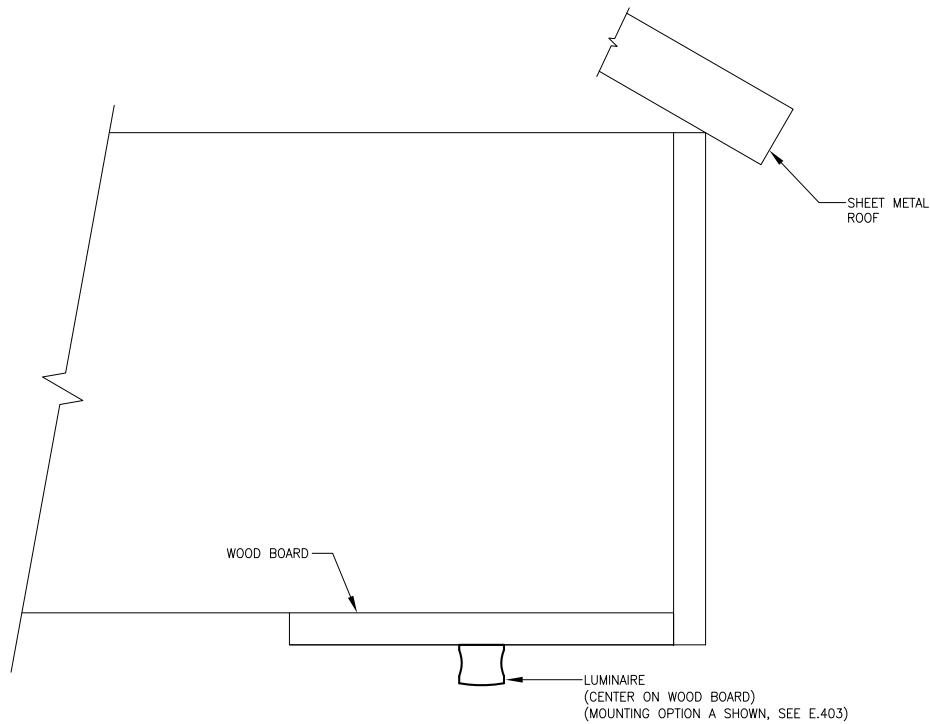
**DOWNTOWN STREET IMPROVEMENTS PHASE I CONTRACT NO. BE17-137**

**CANOPY LIGHTING DETAILS**

SHEET NO. **E.401**  
**36** of **39**

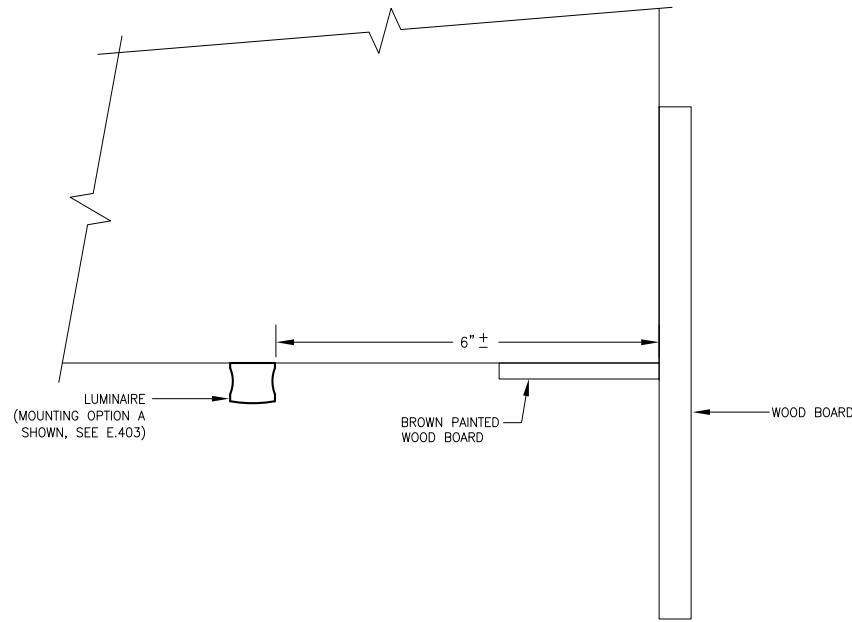
JOB No. J70878.01 | DRAWN BY: PEL/REJ | DESIGNED BY: KHD/PEL | CHECKED BY: BCH | DATE: OCT. 2016

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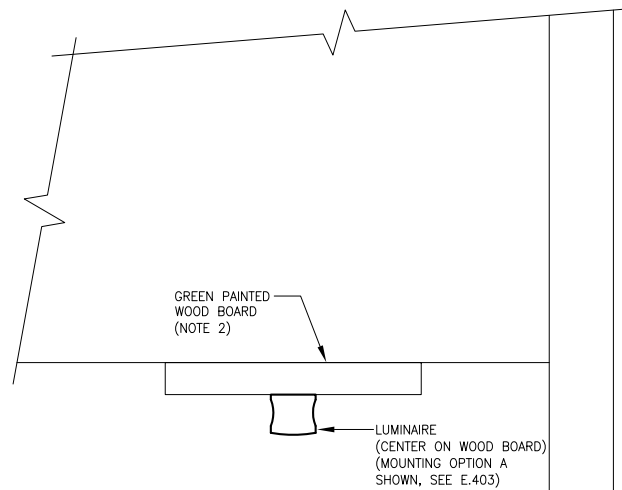
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**1** **DETAIL – RENDEZVOUS CANOPY**  
NO SCALE



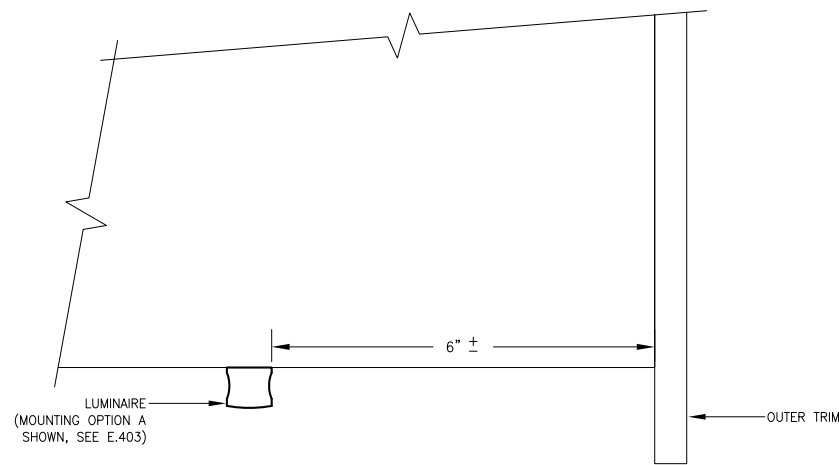
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**2** **DETAIL – ALASKAN GIFTS CANOPY**  
NO SCALE



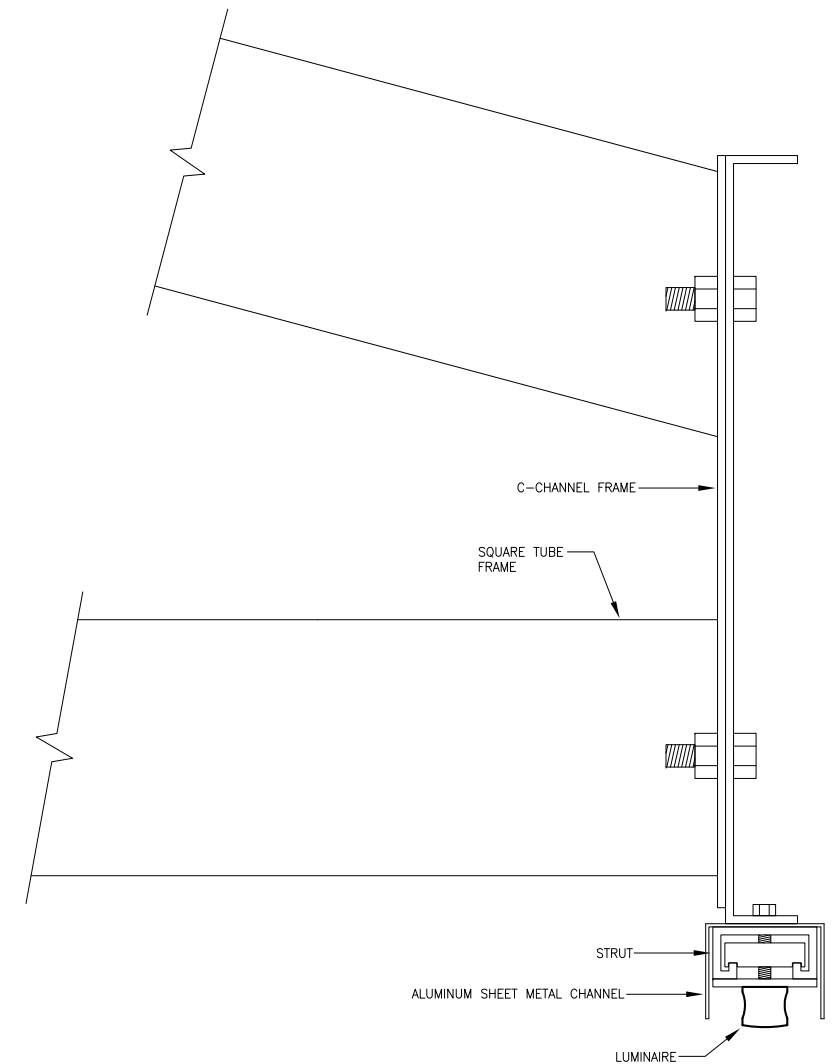
NOTES:  
1. SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.  
2. REMOVE EXISTING (1 EA) LIGHT MOUNTING BRACKET ON GREEN PAINTED WOOD BOARD. UTILIZE TOUCH-UP PAINT MATCHING BOARD COLOR.

**3** **DETAIL – LUCKY LADY CANOPY**  
NO SCALE



NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**4** **DETAIL – GEORGE'S GIFTS CANOPY**  
NO SCALE



NOTES:  
1. SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO STRUT. SEE MANUFACTURER'S INSTRUCTIONS.  
2. SECURE STRUT AND ALUMINUM SHEET METAL CHANNEL TO EXISTING C-CHANNEL FRAME EVERY 48".  
3. PLACE LUMINAIRE CABLES INSIDE STRUT CHANNEL, AND INSTALL ALUMINUM STRUT CHANNEL CLOSURE STRIP OVER STRUT CHANNEL OPENING. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.  
4. ALUMINUM SHEET METAL CHANNEL SHALL HAVE A PAINT FINISH MATCHING EXISTING SQUARE TUBE FRAME FINISH.

**5** **DETAIL – MARINEVIEW CANOPY**  
NO SCALE

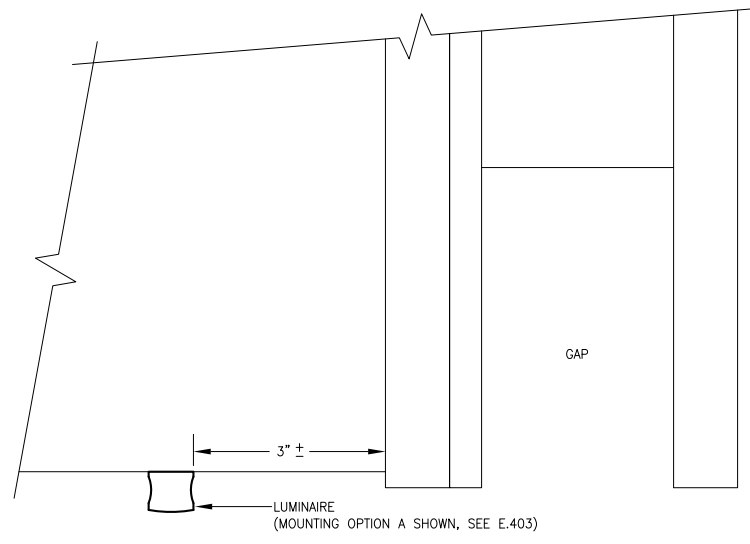


**DOWNTOWN STREET IMPROVEMENTS PHASE I CONTRACT NO. BE17-137**

**CANOPY LIGHTING DETAILS**

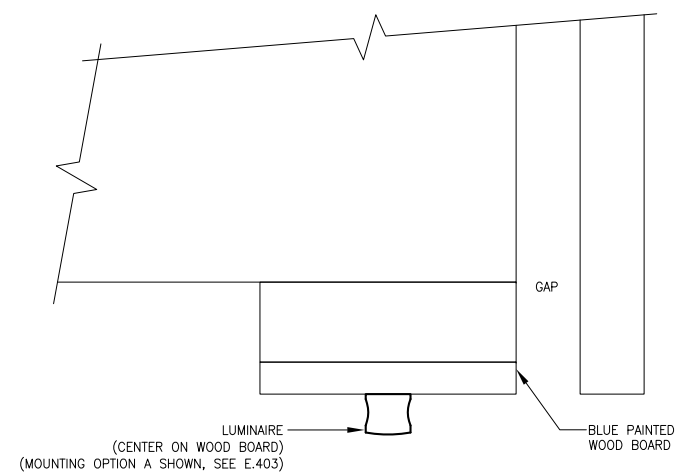
SHEET NO. **E.402**  
**37** of **39**

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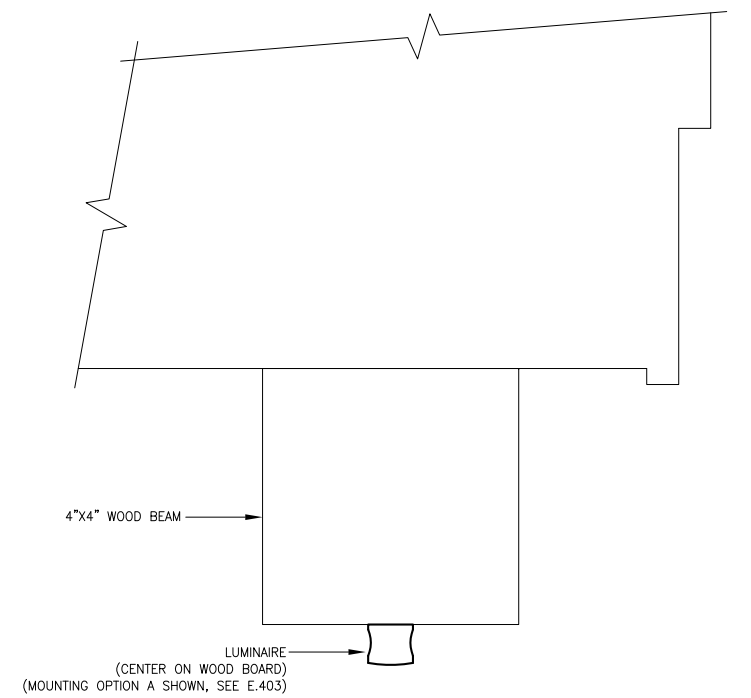
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**1** DETAIL – NORTHSTAR GIFTS CANOPY NO SCALE



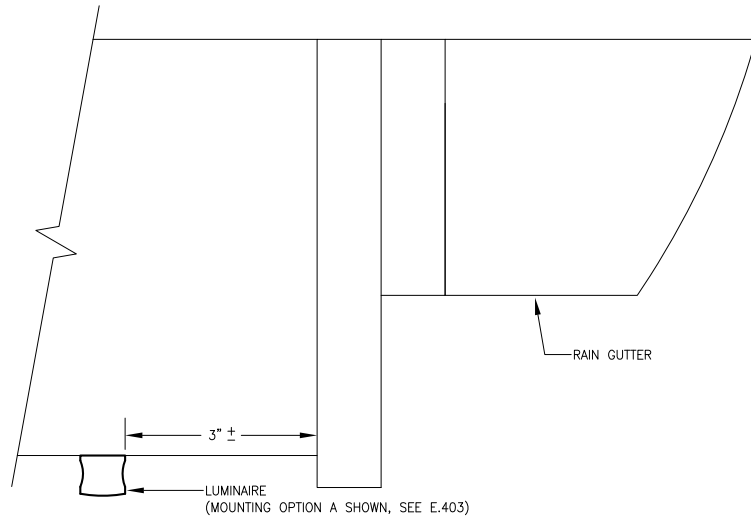
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**2** DETAIL – NORTHERN TREASURES CANOPY NO SCALE



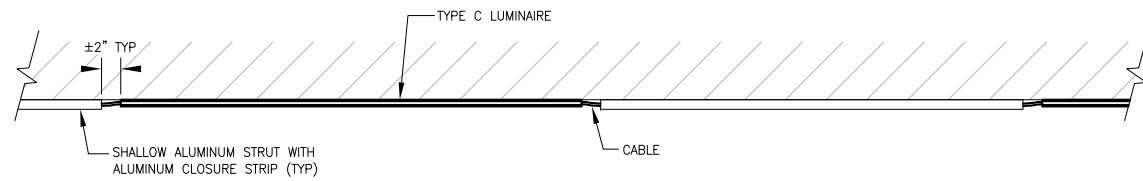
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**3** DETAIL – RED DOG CANOPY NO SCALE



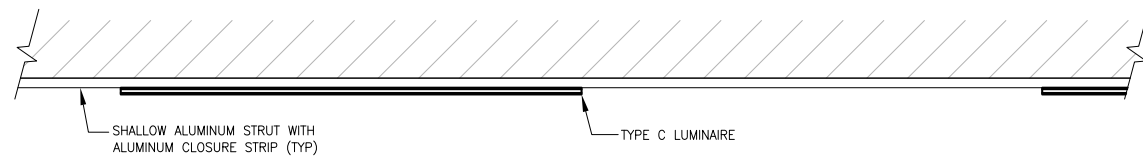
NOTE: SECURE LUMINAIRE FIXED MOUNTING BRACKETS TO WOODEN UNDERSIDE OF CANOPY. SEE MANUFACTURER'S INSTRUCTIONS.

**4** DETAIL – RED DOG GIFT SHOP CANOPY NO SCALE



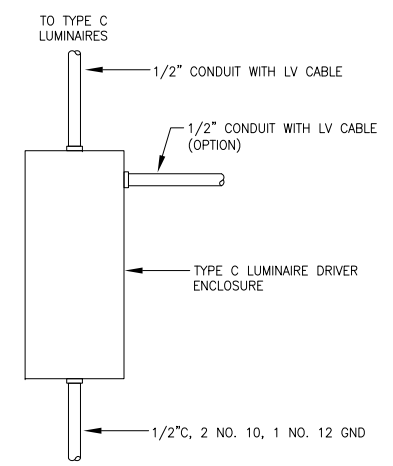
- NOTES:
1. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.
  2. PROVIDE END FEED CABLES FOR TYPE C LUMINAIRES WITH OPTION A.
  3. PLACE LUMINAIRE CABLES INSIDE STRUT CHANNEL AND INSTALL ALUMINUM STRUT CHANNEL CLOSURE STRIP OVER STRUT CHANNEL OPENING. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.
  4. UTILIZE STRUT JOINERS WHERE STRUT LENGTHS CONNECT.

**5** DETAIL – LUMINAIRE STRUT MOUNTING (OPTION A) NO SCALE



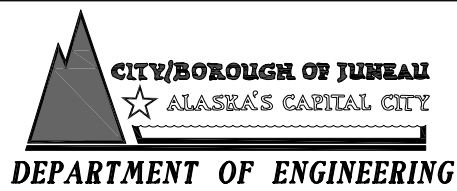
- NOTES:
1. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.
  2. PROVIDE BOTTOM FEED CABLES FOR TYPE C LUMINAIRES WITH OPTION B.
  3. PLACE LUMINAIRE CABLES INSIDE STRUT CHANNEL AND INSTALL ALUMINUM STRUT CHANNEL CLOSURE STRIP OVER STRUT CHANNEL OPENING. STRUT CHANNEL CLOSURE STRIP SHALL HAVE A PAINT FINISH MATCHING THE LUMINAIRE FINISH.
  4. UTILIZE STRUT JOINERS WHERE STRUT LENGTHS CONNECT.

**6** DETAIL – LUMINAIRE STRUT MOUNTING (OPTION B) NO SCALE



- NOTES:
1. UTILIZE CONNECTION END CAPS WHEN ATTACHING CONDUIT TO STRUT RACEWAY. BASIS OF DESIGN: EATON B-LINE B392 SERIES.
  2. WALL MOUNTED LIGHTING DRIVER SHALL BE MOUNTED AT 6 INCHES BELOW BOTTOM OF CANOPY TO TOP OF DRIVER.

**7** DETAIL – CANOPY LIGHTING DRIVER (TYP) NO SCALE



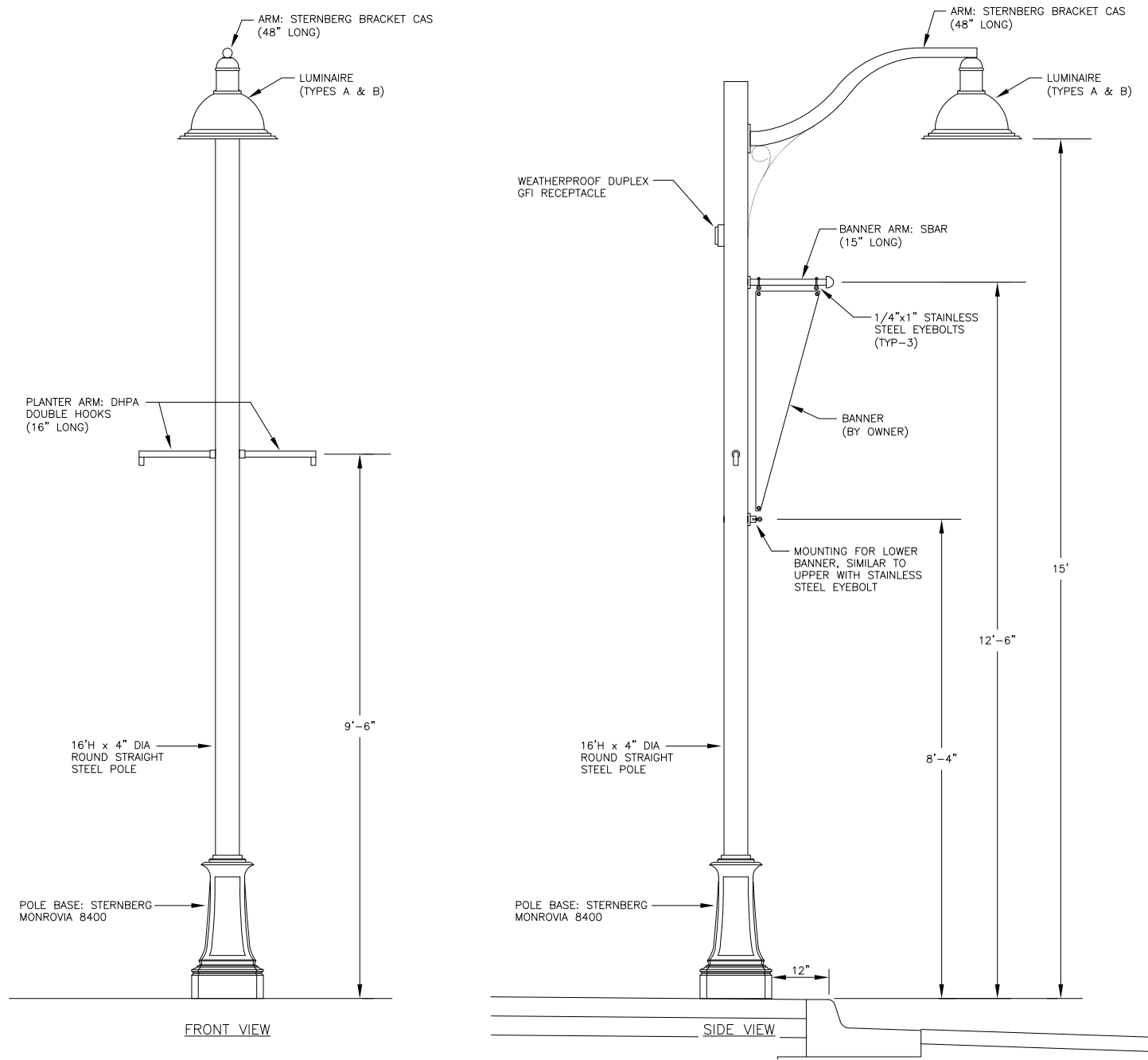
**DOWNTOWN STREET IMPROVEMENTS PHASE I CONTRACT NO. BE17-137**

**CANOPY LIGHTING DETAILS**

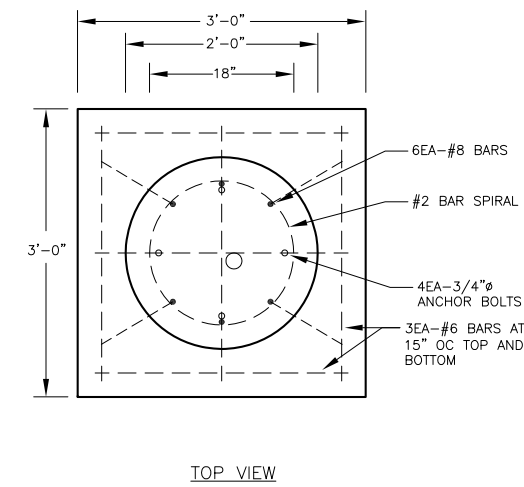
SHEET NO. **E.403**  
38 of 39

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016

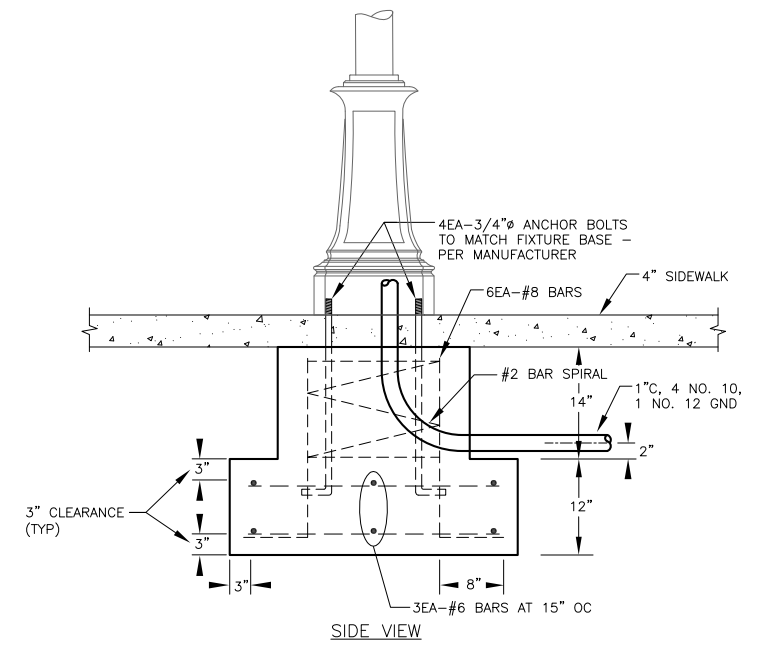
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**1** **DETAIL - TYPE A & B LIGHT POLES** NO SCALE

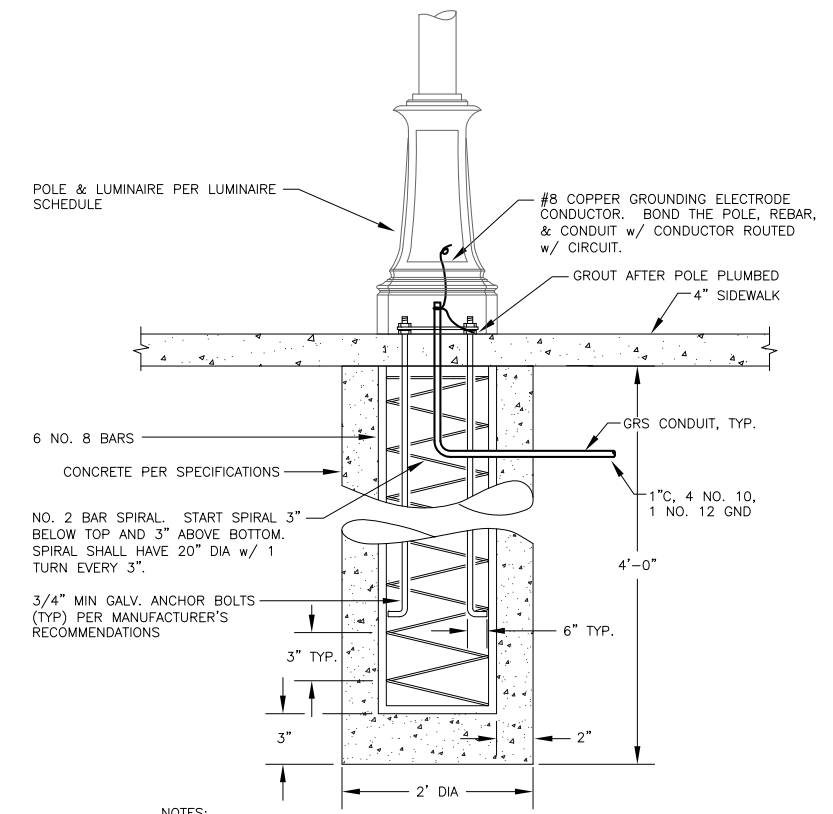


TOP VIEW



SIDE VIEW

**2** **DETAIL - POLE BASE FOUNDATION - SHORT** NO SCALE



NO. 2 BAR SPIRAL. START SPIRAL 3" BELOW TOP AND 3" ABOVE BOTTOM. SPIRAL SHALL HAVE 20" DIA w/ 1 TURN EVERY 3".

3/4" MIN GALV. ANCHOR BOLTS (TYP) PER MANUFACTURER'S RECOMMENDATIONS

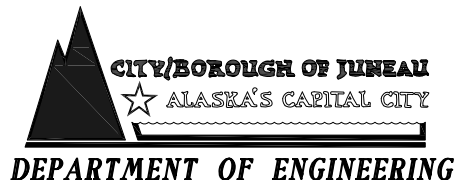
- NOTES:
- BACKFILL w/ N.F.S. SAND & GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
  - ANCHOR BOLTS TO MEET ATSM-A36 w/ MINIMUM YIELD STRESS OF 36.0 KSI.

**3** **DETAIL - POLE BASE FOUNDATION - LONG** NO SCALE



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**DOWNTOWN STREET IMPROVEMENTS PHASE I**  
**CONTRACT NO. BE17-137**

**DETAILS**

SHEET NO. **E.404**  
**39** of **39**

JOB No. J70878.01 DRAWN BY: PEL/REJ DESIGNED BY: KHD/PEL CHECKED BY: BCH DATE: OCT. 2016