

COUNTY OF	ITEM NO.	SHEET NO.
WOLFE	10-126.70	T01

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
11	EACH	4701	POLE 40' MTG HT
11	EACH	4724	BRACKET 12'
11	EACH	4740	POLE BASE
11	EACH	4750	TRANSFORMER BASE
1	EACH	4761	LIGHTING CONTROL EQUIPMENT
22	EACH	4780	FUSED CONNECTOR KIT
745	LIN FT	4797	CONDUIT 3 INCH
1,965	LIN FT	4820	TRENCHING AND BACKFILLING
1,320	LIN FT	4832	WIRE - NO. 12
1,965	LIN FT	4860	CABLE - NO. 8/3C DUCTED
14	EACH	2039INS835	ELECTRICAL JUNCTION BOX TYPE A
11	EACH	24589ED	LED LUMINAIRE

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.09: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

PRELIMINARY PLANS NOT FOR CONSTRUCTION

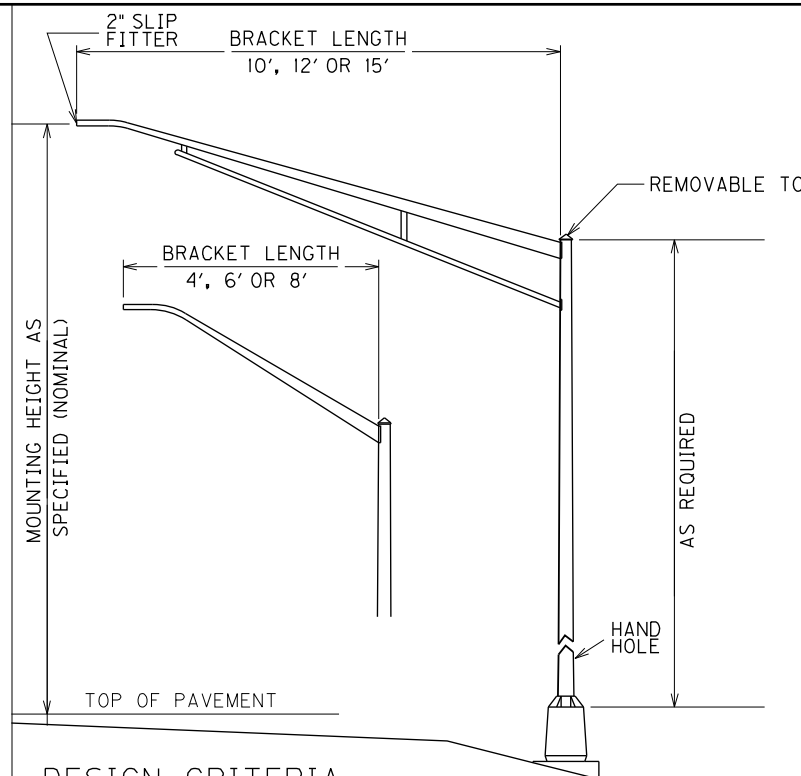


FILE NAME: I:\S\N\LEGACY\JOBS\XO\2010PB\100.76\8298-KY MOUNTAIN_INTERCHANGE\DCN\02-QUANTITY SHEET (SU) LIGHTING.DGN
 USER: ted.swanson@car
 DATE PLOTTED: May 12, 2016
 E-SHEET NAME: T00100SU
 MicroStation v8.11.7.443

4-14-2016

DESIGNED BY: LWS	
DATE SUBMITTED: SEPT 22, 2016	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF	
Wolfe	
PROJECT	NHPP_0061 (67)
NUMBERS:	FD52, 119 9009 056-058, FD52 088 9009 057-060
ROADWAY LIGHTING ESTIMATES OF QUANTITIES	

COUNTY OF	ITEM NO.	SHEET NO.
WOLFE	10-126.70	T02



DESIGN CRITERIA FOR LUMINAIRES

KY 205 STA. 341+98 TO STA. 345+39

ILLUMINANCE CRITERIA:
 AVERAGE: NOT LESS THAN 0.80 FOOTCANDLES AND MORE THAN 0.90 FOOTCANDLES
 MINIMUM: NOT LESS THAN 0.20 FOOTCANDLES
 AVERAGE/MINIMUM: NOT MORE THAN 4:1

KY 205 INTERSECTIONS

APPROACH ILLUMINANCE CRITERIA:
 AVERAGE: NOT LESS THAN 0.90 FOOTCANDLES AND MORE THAN 0.95 FOOTCANDLES
 MINIMUM: NOT LESS THAN 0.70 FOOTCANDLES
 AVERAGE/MINIMUM: NOT MORE THAN 4:1

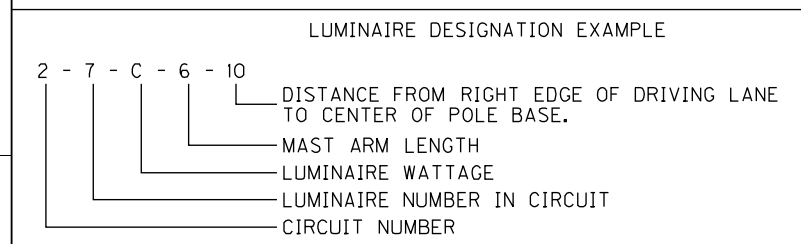
INTERSECTION ILLUMINANCE CRITERIA:
 AVERAGE: NOT LESS THAN 0.90 FOOTCANDLES AND MORE THAN 1.25 FOOTCANDLES
 MINIMUM: NOT LESS THAN 0.50 FOOTCANDLES
 AVERAGE/MINIMUM: NOT MORE THAN 4:1

ALL POLE LOCATIONS, ARM LENGTHS, AND ORIENTATION OF LUMINAIRE (TO CURVE/ROAD) SHOULD BE MAINTAINED DUE TO UTILITIES/DRAINAGE/RIGHT-OF-WAY.

LUMINAIRE DESIGN:

LAMP WATTAGE:
 LED DRIVER: NOT TO EXCEED 850 mA
 TYPE C: CAN NOT EXCEED 173 WATTS, LED, TYPE-II DISTRIBUTION

SPECIAL NOTE:
 ALL LUMINAIRES SHALL HAVE THE NEMA LABEL INSTALLED ON THE BOTTOM OF THE FIXTURE TO VERIFY THE WATTAGE LABELS.
 C: C2



NOTE:
 ALL TYPE C LUMINAIRES ARE LED LUMINAIRE MOUNTED AT 40'

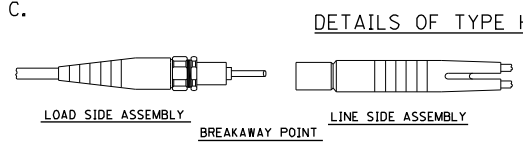
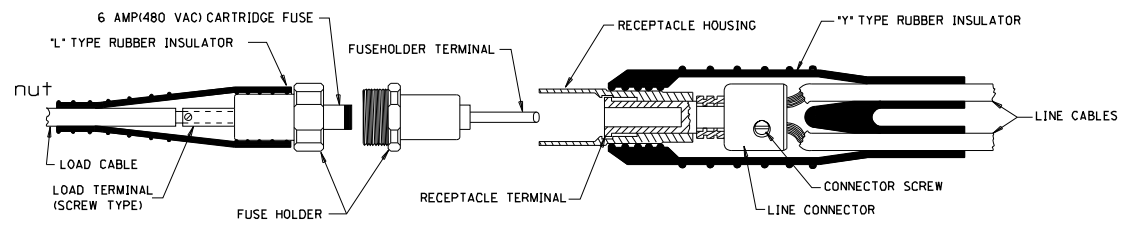
LED Luminaire Specifications

The following are the required Specifications for the LED Fixture:

- The Luminaire shall be listed by a National Recognized Testing Laboratory (NRTL) as defined by the U.S. Department of Labor. The testing laboratory must be listed by OSHA in its scope of recognition for the applicable tests being conducted as required by this specification. A list of recognized testing labs for products sold in the United States may be found on the U.S. Department of Labor's web site: <http://www.osha.gov/>
- The Luminaire shall be listed and labeled by a NRTL as being in compliance with UL 1598 and suitable for use in wet locations.
- Key components including LED drivers, LED light sources, and surge protection devices shall be RoHS compliant.
- Shall have an International Electrotechnical Commission (IEC) 529 Ingress Protection (IP) rating of IP 66 or greater.
- Shall be in compliance with Electro Magnetic Interference (EMI) requirements as defined by FCC 47 Sub Part 15; CISPR15, CISPR22 Class A (20Vmin), EN61000-3-2, -3-3, -4-4, -4-5.
- Shall be tested according to the most current version of Illuminating Engineering Society of North America (IESNA) LM-79.
- Shall have lumen maintenance measured in accordance the most current version of Illuminating Engineering Society of North America (IESNA) LM-80.
- Shall have long term lumen maintenance documented according to the most current version of Illuminating Engineering Society of North America (IESNA) TM-21.
- The fixture shall have a diecast aluminum housing.
- The luminaire finish shall be corrosion resistant with a polyester powdercoat of 2.5 mil nominal thickness. Finish shall pass per ASTM D1654 after 5000 hours of testing per ASTM B117.
- All hardware on the exterior of the housing including cover and latch shall be stainless steel, zinc or steel with zinc alloy electroplate and chromate top coat.
- The luminaire shall be easy to open when properly mounted and shall have readily accessible internal parts. Access to all internal parts requiring replacement shall not require tools (i.e. "tool-less entry").
- The luminaire shall have a vibration rating of 3G per the American National Standard (ANSI) IEEE C136.31, Table 2 Roadway Lighting Equipment -Luminaire Vibration for both normal applications and bridge and overpass applications.
- The luminaire shall be designed to allow water shedding.
- The luminaire shall have a passive cooling method shall be employed to manage thermal output of LED light engine and power supply.
- The luminaire shall have a label per ANSI C136.22 that states operating voltage and current range. The label must be clearly visible on the inside of the housing.
- The luminaire shall fully operate in a temperature range of -40 degrees C up to 40 degrees C (-40 degrees F to 104 degrees F).
- In retrofit applications the LED luminaire shall not be more wattage than the original HPS fixture if you are replacing one for one. For the optimized proposal, we will allow the wattage to be greater than the original proposed luminaire.
- The luminaire shall have an integral power supply (electronic driver). The power supply shall not have a manual, field-adjustable setting for current output.
- The luminaire shall have a power supply (electronic driver) that will operate on a 240 volt single phase at 60 hertz.
- The luminaire shall have a power supply (electronic driver) that has a power factor of .90 or greater at full load.
- The luminaire shall have a power supply (electronic driver) that has total harmonic distortion of 20% or less at full load.
- The luminaire shall have power supply (electronic driver) output ripple of less than 10%.
- The luminaire shall have power supply (electronic driver) with a rated life of 100,000 hours with a luminaire operated at an ambient temperature of 25°C (77°F).
- The luminaire shall have an isolated power supply (electronic driver) output.
- The luminaire shall have a power supply (electronic driver) that has thermal overload protection.
- The luminaire shall have a power supply (electronic driver) that is self-limited short circuit protected and over load protected.
- The luminaire shall not use any active thermal cutback, such as in order to achieve a higher thermal performance.
- The luminaire shall have a power supply (electronic driver) that is terminated with quick disconnect wire harnesses for easy maintenance. Wire nut termination is not acceptable.
- The luminaire shall have a terminal block for terminating wiring to the luminaire. The terminal block shall be a 3 station, tunnel lug terminal board that will accommodate #6 thru #18 AWG pole wire.
- Fixture shall have a surge protection that meets 10KV/5KA per ANSI/IEEEC62.41.
- The luminaire shall have life rating on all electrical components of 100,000 hours or greater when operated at full lumen output at 25 degrees C.
- All LED components shall be L70 rated when operated in a luminaire at 25 degrees C (77 degrees F) at 100,000 hours.
- Electrical components shall be protected per ANSI/IEEE standard C62.41, for Class C applications.
- The LED shall fully operate in a temperature range -40 degrees C to 40 degrees C (-40 degrees F to 104 degrees F).
- The LED shall lose no more than a 15% optical intensity of initial delivered lumens due to thermal loading when operated at 25°C (77°F).

- The LED shall deliver an average 80% of initial delivered lumens after 70,000 hours of operation when operated at 25°C (77°F).
- The LED shall have a rated life of 100,000 hours when operated at 25 °C (77°F).
- The LED shall have a minimum Luminaire efficacy of 80 lumens/watt.
- The Correlated Color Temperature (CCT) shall be 4000K with a variance of 250K, white, that conforms to LM-79. All fixtures in the design shall utilize the same CCT throughout.
- The minimum color rendering index (CRI) shall not be less than 70.
- The optics shall have a completely sealed optical system.
- The optical system shall have a (IEC) (IP) rating of 66 or greater.
- The optics shall have an Illuminating Engineering Society of North America (IESNA) Backlight, Uplight and Glare (BUG) rating as follows:
 - Backlight rating shall not exceed 3;
 - Uplight rating shall not exceed 0;
 - Glare rating shall not exceed 3/4
- The Light Loss Factor (LLF) shall be calculated for each fixture as follows:
 LLF = LLD X LDD
 Lamp Lumen Depreciation Factor (LLD) shall be the specified percentage of LED lumen maintenance at 70,000 hours at 25°C (77°F) from the TM-21 report. This LLD should be according to LM -80 and TM -21 reports. This report shall be submitted for verification.
 Luminaire Dirt Depreciation (LDD) = .9
- The TM-21 Report must show the drive current used for the submitted luminaire. The report can show a larger drive current to represent a worst case scenario.
- The Lumen Maintenance Life L₇₀ from the TM-21 Report must not be below 80% at 70,000 hours at 25°C (77°F).
- The manufacturer shall provide certified test laboratories IES photometrics which verify light levels. Product submittal shall be accompanied by IES TM-21 compliant test reports from a CALIPER qualified or NVLAP accredited testing laboratory for the specific model being submitted.
- WARRANTY:** The Manufacturer shall ensure that the LED luminaires have a minimum standard warranty of 10 years for all parts, materials, paint finish, and shipping (both ways) required to repair or replace the luminaire. The warranty shall begin upon the date the luminaire is received. The warranty shall be transferable.
 The warranty shall cover all failures including:
 (1) Failure in luminaire LED, housing, wiring, connections, and drivers.
 (2) More than 10 percent decrease in lumen output.
 (3) Significant change in light output color.
 Technical Support. During the warranty period, technical support shall be available from the manufacturer via telephone within 24 hours of the time the call is made from KYTC, and this support shall be made available from factory certified personnel or factory certified installers at no additional charge to the Department.
- MINIMUM REQUIRED SUBMITTALS:**
 Luminaire specification sheet.
 LED driver specification sheet.
 LM-79 Luminaire photometric report.
 The vendor must submit LM-79 in-situ test data to confirm thermal operating temperatures of the luminaire.
 LM-80 Lumen maintenance report.
 TM-21 calculations as defined .
 Backlight, Uplight, Glare (BUG) rating of the luminaire.
 Written product warranty.
 Certified test lab IES photometric reports.
 Including IES electronic file.
 Including intensity and chromaticity data.
 Instructions for installation and maintenance.

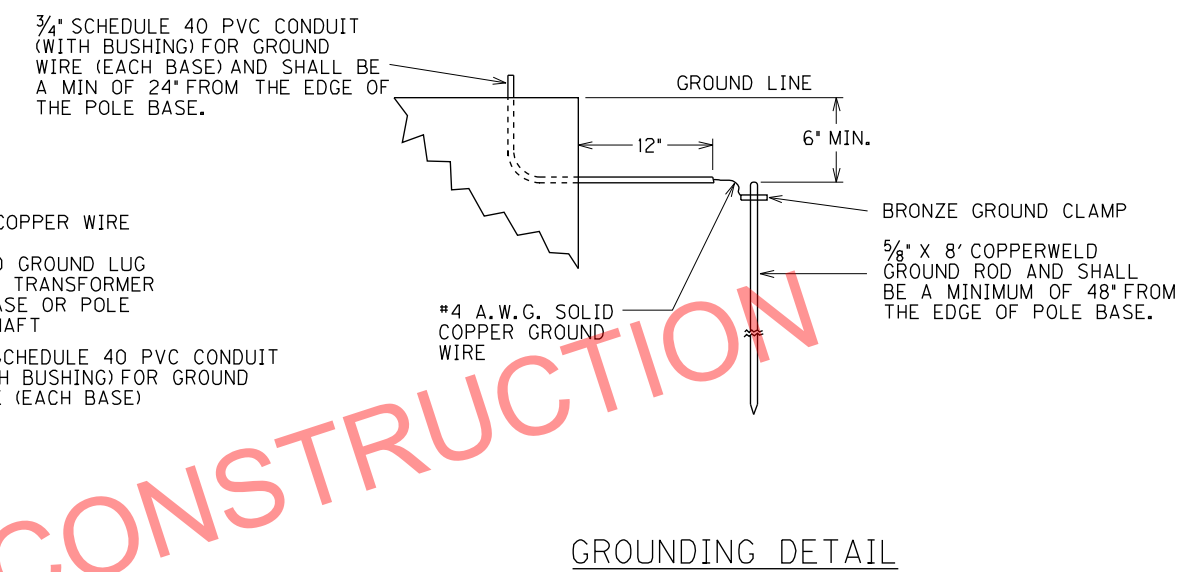
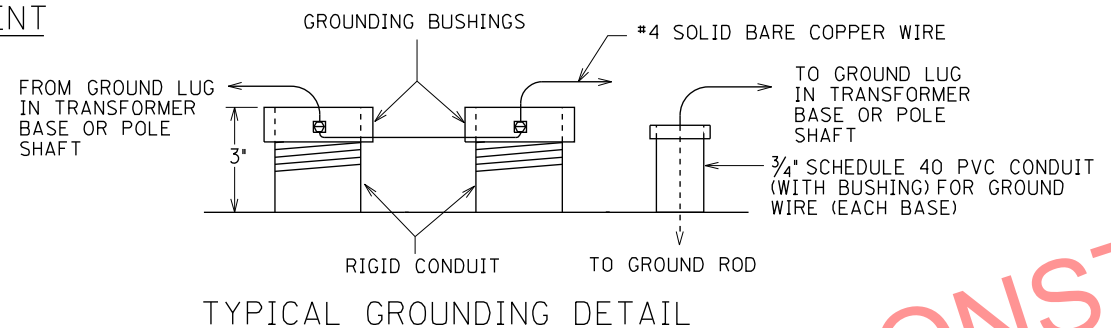
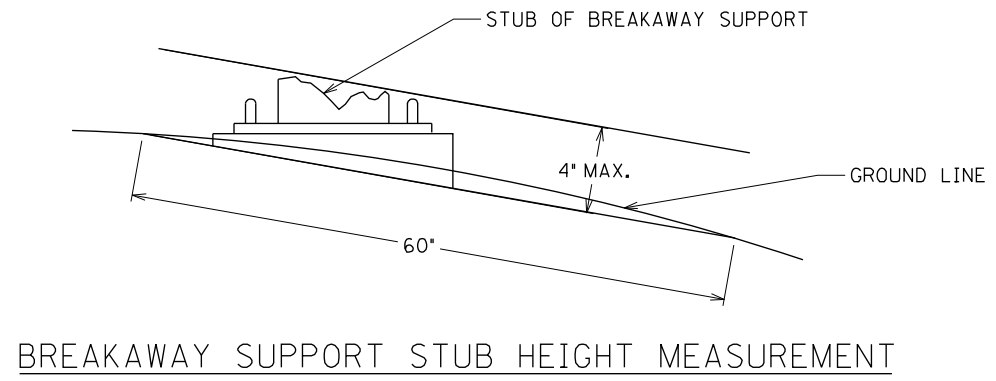
BREAKAWAY FUSE CONNECTOR KIT



TYPE HEB-JW-RYC CONNECTOR SHOWN

CONVENTIONAL LED LUMINAIRE/FUSE CONNECTOR DETAILS

FILE NAME: G:\USERS\KOSWALD\DESKTOP\T04400CL.DGN
 USER: Koswald
 DATE PLOTTED: Apr 11, 2016
 E-SHEET NAME: T00200CL
 MicroStation v8.11.7.443
 6/10/2014



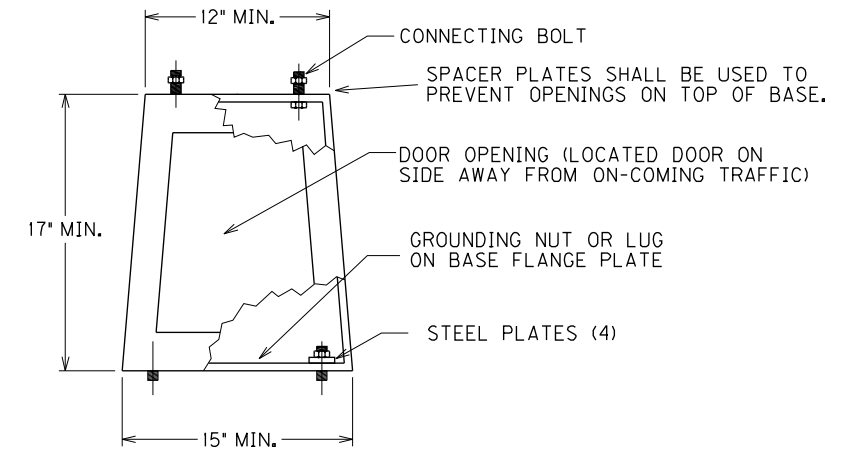
GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO TRANSFORMER BASE.

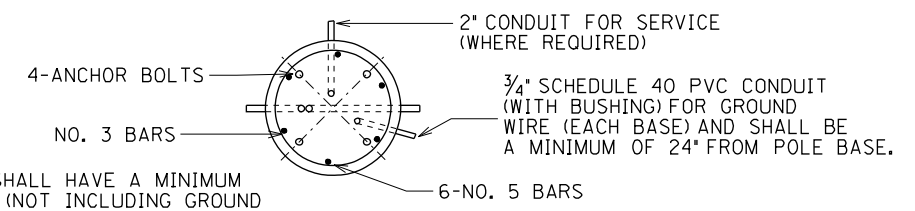
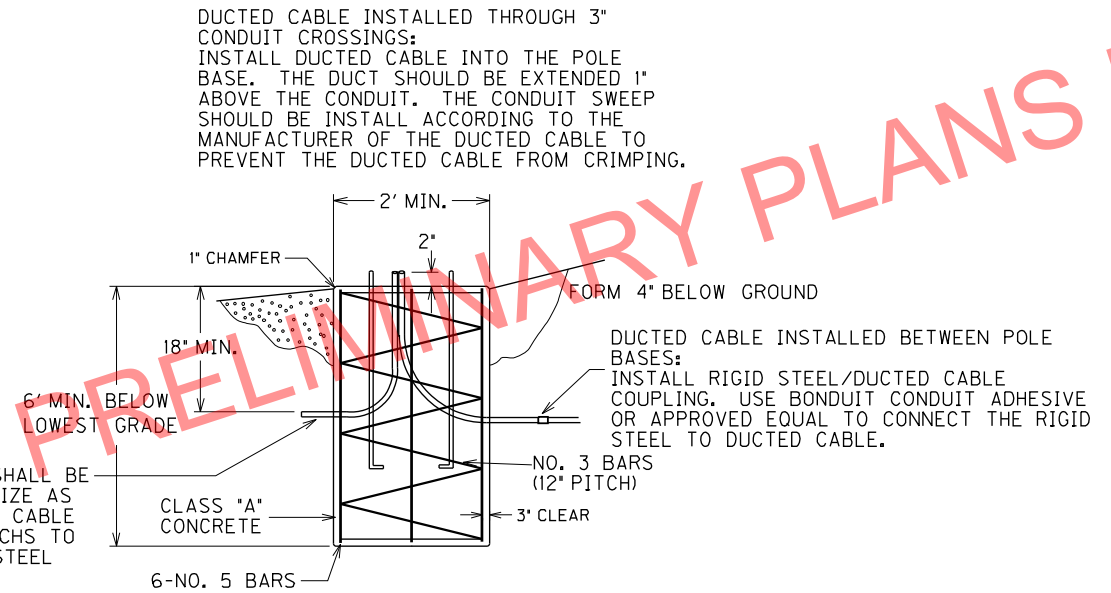
POLE/TRANSFORMER BASE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE TRANSFORMER BASE/POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

NOTES:

ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM '4740'. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.



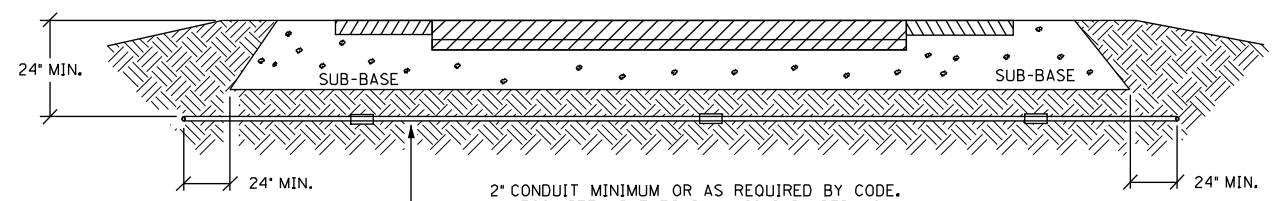
CONCRETE BASES SHALL BE POURED LEVEL. NO MORE THAN A 3/8" GAP SHALL EXIST BETWEEN CONCRETE BASE AND TRANSFORMER BASE WHEN THE POLE IS PLUMBED.



NOTE: PRECAST CONCRETE BASES ARE NOT ACCEPTABLE

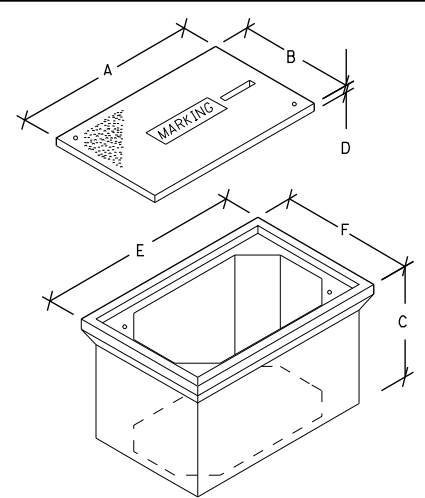
FILE NAME: G:\P\WORK\YTD.SWANSEGAR\DI016362\T04300CL.DGN
 USER: ted.swansegar
 DATE PLOTTED: October 15, 2014
 E-SHEET NAME: T00300CL
 MicroStation v8.11.7.443

ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS (NOT INCLUDING GROUND CONDUIT). THE SPARE CONDUIT SHALL BE 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.



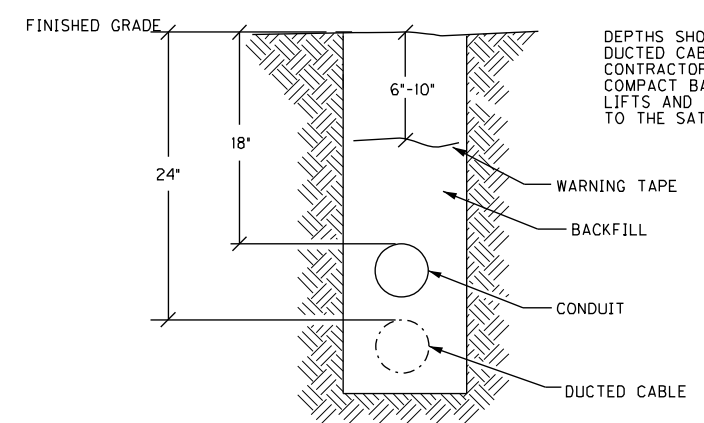
2" CONDUIT MINIMUM OR AS REQUIRED BY CODE, UNLESS 'OPEN CUT ROADWAY' IS INCLUDED AS A BID ITEM, CONDUIT MUST BE INSTALLED WITHOUT DISTURBING PAVEMENT. CONDUIT SHALL EXTEND A MINIMUM OF 24" PAST THE EDGE OF SUB-BASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL



JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 3/4"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

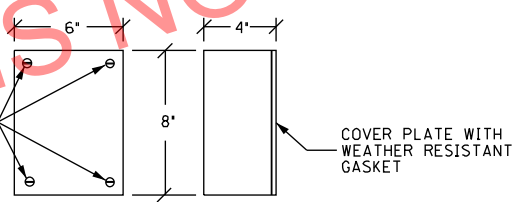
* MINIMUM
NOTE: STACKABLE BOXES ARE PERMITTED



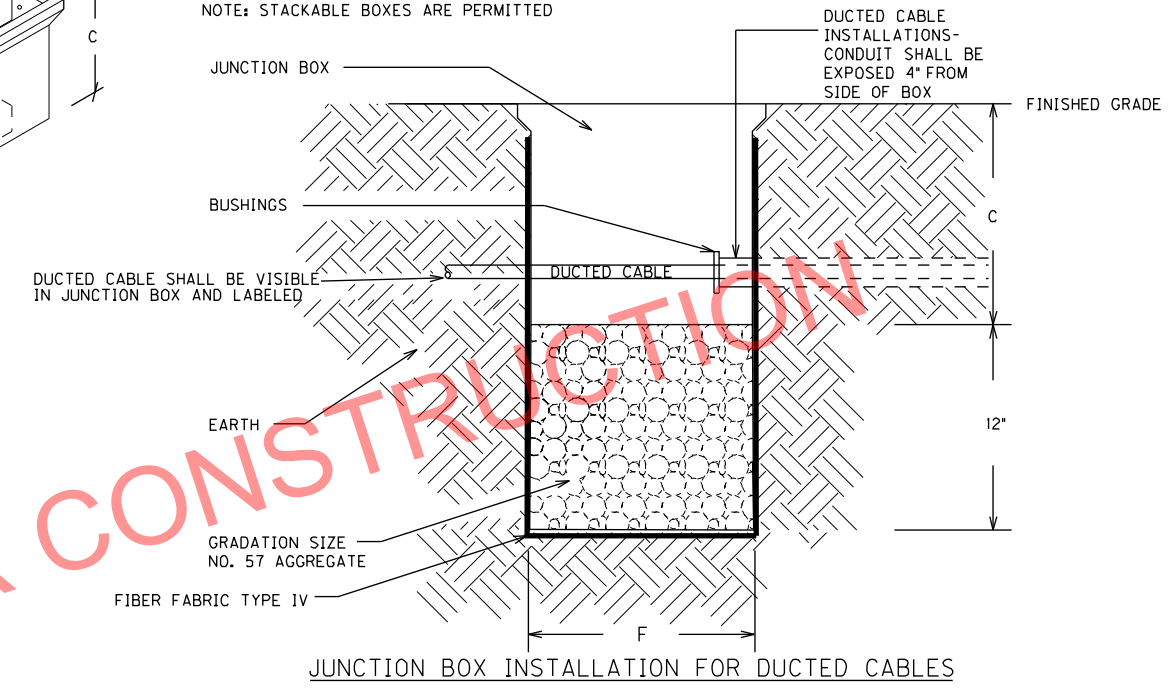
DEPTHS SHOWN FOR CONDUIT AND DUCTED CABLE ARE MINIMUMS. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM LIFTS AND RETORE DISTURBED AREA TO THE SATISFACTION OF THE ENGINEER.

CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

SPLICE BOX SHALL BE FABRICATED FROM MINIMUM 12 GAUGE STEEL AND GALVANIZED AFTER FABRICATION. BOXES SHALL HAVE NO KNOCKOUTS AND SHALL BE PROVIDED WITH A PLATE COVER WITH A WEATHER RESISTANT GASKET AND A MINIMUM OF FOUR SCREWS FOR ATTACHING THE PLATE COVER TO THE BOX. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.

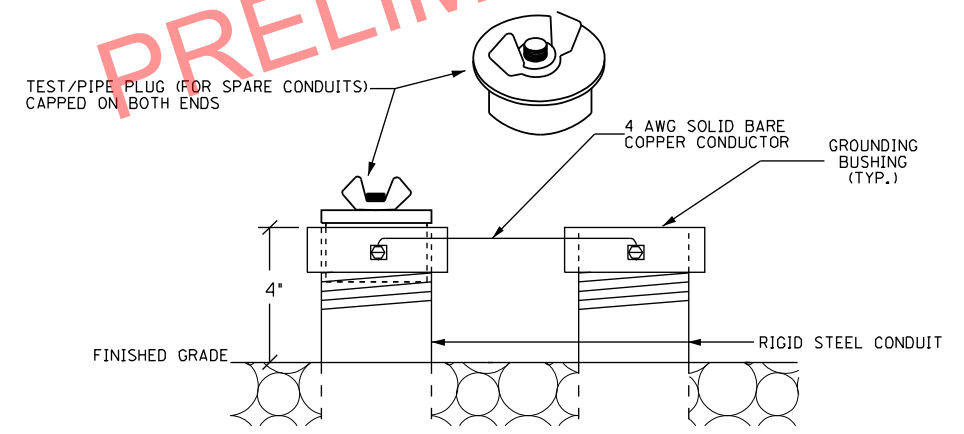


SPLICE BOX

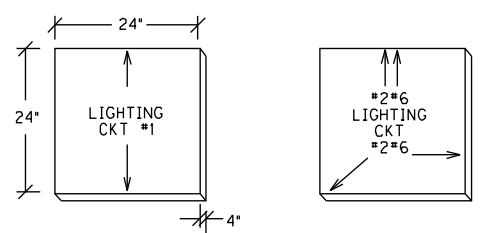


JUNCTION BOX INSTALLATION FOR DUCTED CABLES

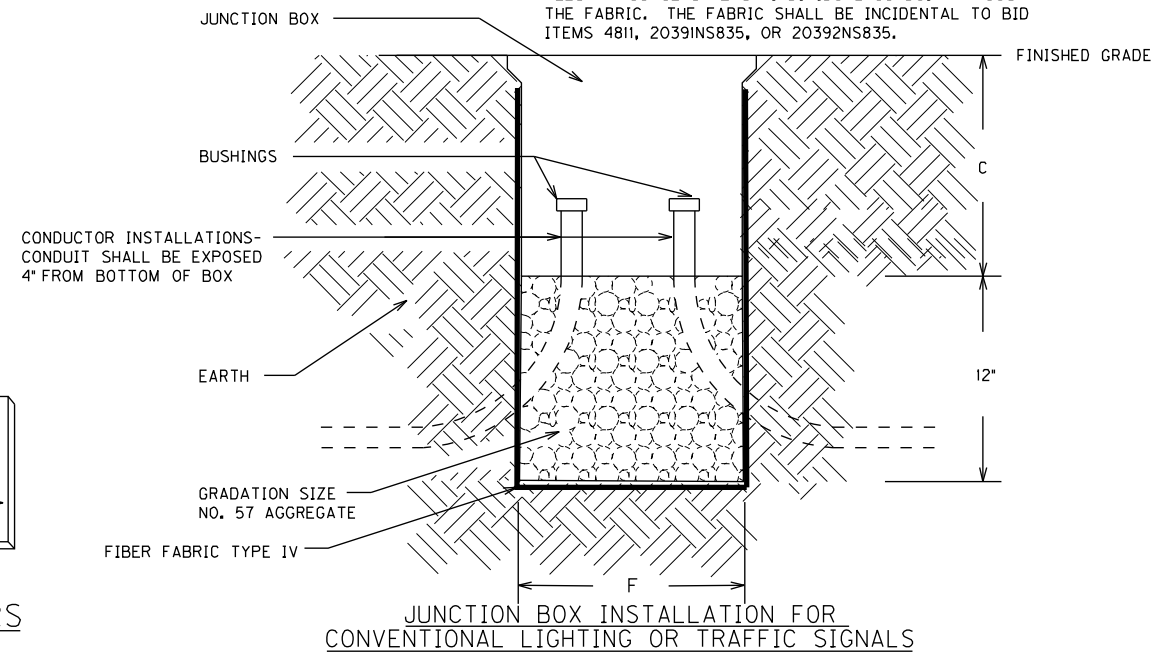
BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE 'X CUT' ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 4811, 20391NS835, OR 20392NS835.



TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL



CONCRETE CABLE MARKERS

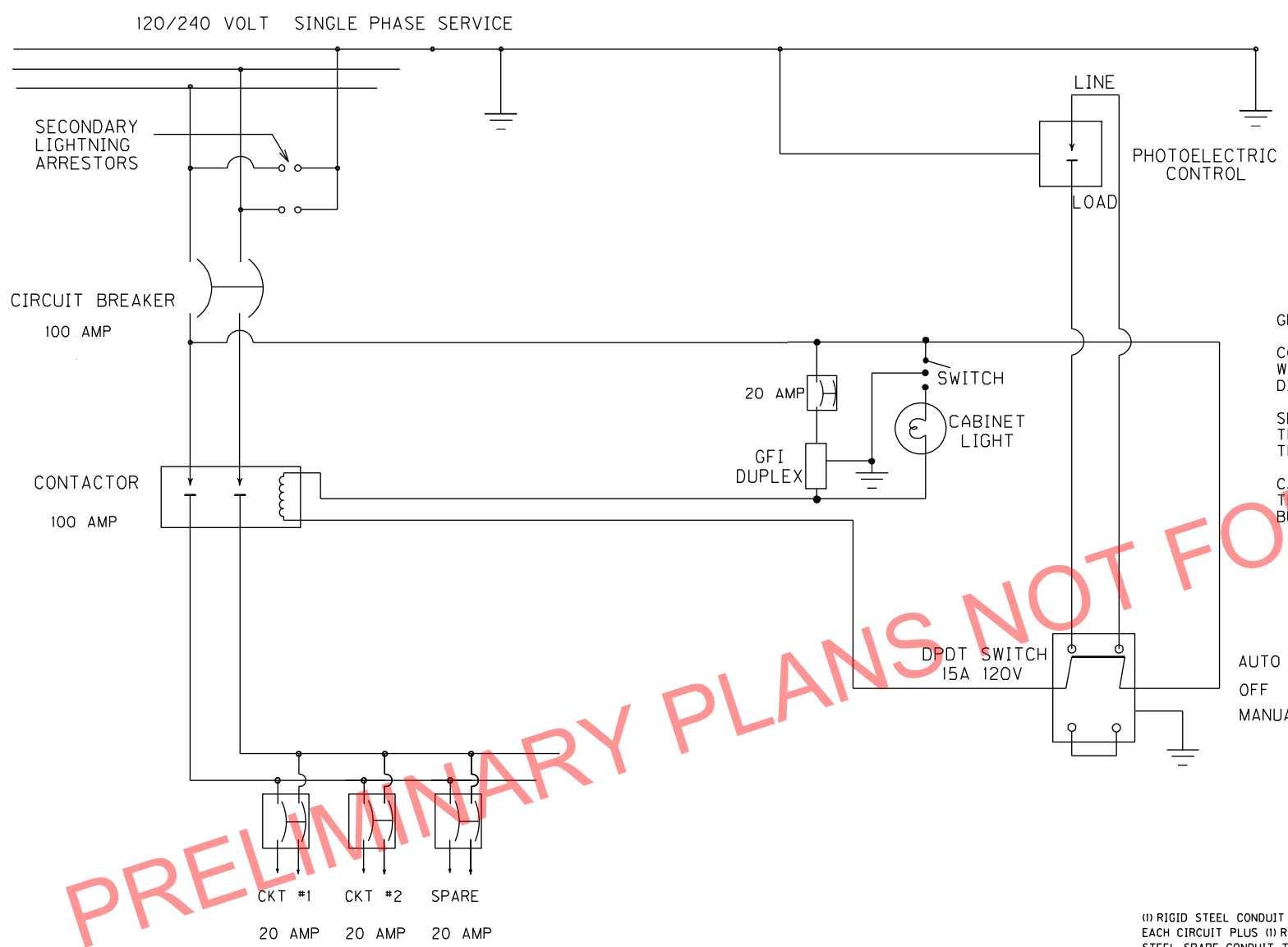


JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING OR TRAFFIC SIGNALS

TRAFFIC SIGNAL AND ROADWAY LIGHTING JUNCTION BOX AND CONDUIT DETAILS

FILE NAME: C:\PIWORK\COPY OF TED.SWANEGAR\DM528754\06_07_11-JUNCTION BOX (JBL).DGN
 USER: shannon.riddle
 DATE PLOTTED: November 5, 2015
 E-SHEET NAME: T00400JB
 MicroStation v8.11.7.443
 10/20/2015

PRELIMINARY PLANS NOT FOR CONSTRUCTION



GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE.

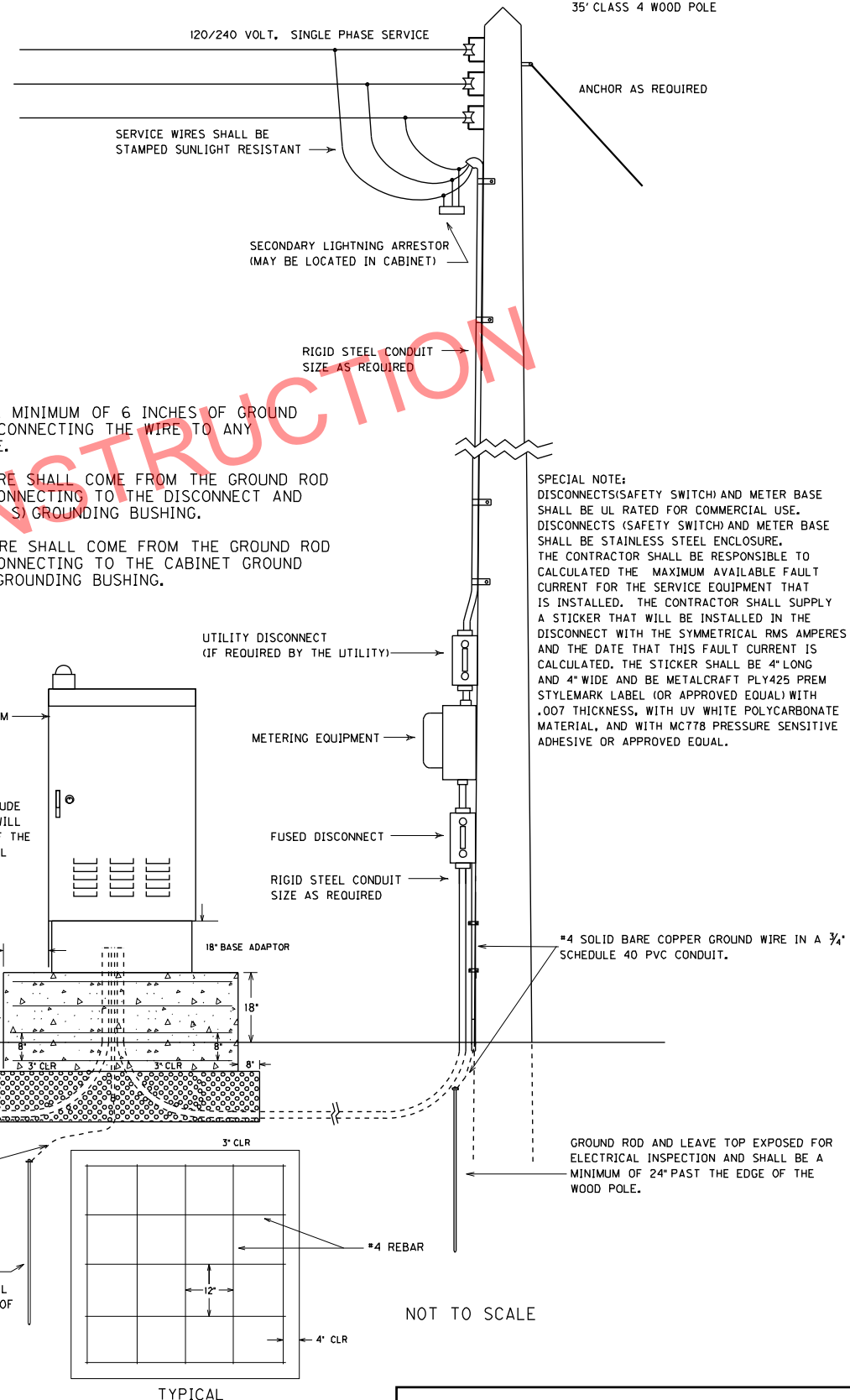
SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R/S) GROUNDING BUSHING.

CABINET GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS AND THEN TO EACH R/S GROUNDING BUSHING.

PHOTOELECTRIC CONTROL SHALL BE INSTALLED SO MOUNT IS WATERTIGHT AND THE SENSOR SHOULD BE DIRECTED AWAY FROM TRAFFIC.

AUTO OFF MANUAL

NOTE: THE CABINET ENCLOSURE SHALL INCLUDE AN ALUMINUM BASE ADAPTOR THAT WILL ELEVATE THE CABINET 18 INCHES OFF THE CONCRETE BASE. THE ADAPTOR SHALL HAVE THE SAME BOTTOM OPENING AS THE ORIGINAL CABINET.



SPECIAL NOTE: DISCONNECT(S/SAFETY SWITCH) AND METER BASE SHALL BE UL RATED FOR COMMERCIAL USE. DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE STAINLESS STEEL ENCLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE MAXIMUM AVAILABLE FAULT CURRENT FOR THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL BE INSTALLED IN THE DISCONNECT WITH THE SYMMETRICAL RMS AMPERES AND THE DATE THAT THIS FAULT CURRENT IS CALCULATED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT PLY425 PREM STYLEMARK LABEL (OR APPROVED EQUAL) WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC778 PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.

PRELIMINARY PLANS NOT FOR CONSTRUCTION

NOTES:

CONTRACTOR SHALL INSTALL ALL LIGHTING CONTROL EQUIPMENT AS INDICATED.

CONCRETE SHALL BE CLASS A. CONCRETE SHALL BE POURED ON 12" OF POWER TAMPED DENSE GRADE ROCK. PAD SHALL BE 30" THICK WITH 18" ABOVE GRADE.

PAD SHALL BE OF SUFFICIENT SIZE TO ALLOW A MINIMUM 36" IN FRONT OF THE CABINET AND 12" MINIMUM CLEARANCE AROUND THE SIDES AND BACK OF THE CABINET.

CONCRETE SHALL BE SLOPED 1/8" PER FOOT TO PREVENT STANDING WATER. OUTSIDE EDGE SHALL HAVE A ONE INCH CHAMFER.

#4 REBAR SHALL BE COMPRISED OF RUNS AS SHOWN AND TIED AT EACH JOINT.

ALL CONSTRUCTION (TO INCLUDE EXCAVATION WORK) AND MATERIALS (CONCRETE, STEEL REINFORCEMENT, ETC.) FOR THE CONCRETE PAD SHALL BE INCIDENTAL TO THE POLE FOR THE LIGHTING CONTROL EQUIPMENT BID ITEM.

ALL CONDUITS USED FOR GROUNDING, SPARE, AND SERVICE THAT ARE INSTALLED ON THE POLE AND/OR IN/TO THE CABINET ARE INCIDENTAL TO BID ITEM *4761*. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CABINET BASE FOR THE SPARE.

(1) RIGID STEEL CONDUIT FOR CONCRETE PAD (APPROX. 4.5' X 5.5' X 2.5')

TAMPED DGA

3" CLR

3" CLR

3" CLR

3" CLR

#4 SOLID BARE COPPER GROUND WIRE IN A 3/4" SCHEDULE 40 PVC CONDUIT.

GROUND ROD AND LEAVE TOP EXPOSED FOR ELECTRICAL INSPECTION AND SHALL BE A MINIMUM OF 24" PAST THE EDGE OF THE CABINET BASE

GROUND ROD AND LEAVE TOP EXPOSED FOR ELECTRICAL INSPECTION AND SHALL BE A MINIMUM OF 24" PAST THE EDGE OF THE WOOD POLE.

NOT TO SCALE

TYPICAL

BASE MOUNTED SERVICE DETAIL

FILE NAME: C:\P\WORK\T.D.SWANSECAR\DM528754\08 10 13-SERVICE BASE (SE)4-25-2016.DGN

USER: t.d.swansecar DATE PLOTTED: April 25, 2016

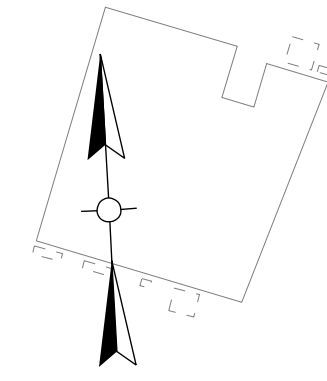
E-SHEET NAME: T0050050E

MicroStation v8.11.7.443 4/25/2016

ITEM	STATION	OFFSET	ALIGNMENT	HTG	WATTAGE
1-1-C-12-10	STA. 348+23	36' RT.	KY 205	40	173
1-2-C-12-8	STA. 347+23	38' LT.	KY 205	40	173
1-3-C-12-8	STA. 346+53	95' LT.	KY 205	40	173
1-4-C-12-10	STA. 345+39	29' LT.	KY 205	40	173
2-1-C-12-10	STA. 346+38	32' RT.	KY 205	40	173
2-2-C-12-6	STA. 345+15	60' RT.	KY 205	40	173
2-3-C-12-10	STA. 343+61	29' RT.	KY 205	40	173
2-4-C-12-10	STA. 341+02	123' RT.	KY 205	30	173
2-5-C-12-10	STA. 340+62	35' LT.	KY 205	40	173
2-6-C-12-10	STA. 341+22	96' LT.	KY 205	40	173
2-7-C-12-10	STA. 341+98	28' LT.	KY 205	30	173

LEGEND

- BASE MOUNTED CABINET
- JUNCTION BOXES - TYPE A (AS DESIGNATED)
- 3 INCH RIGID STEEL CONDUIT (UNLESS OTHERWISE NOTED)
- DUCTED CABLE
- LUMINAIRE POLE
- NEW 35 FT. WOOD SERVICE POLE
- WIRING RUN NUMBER



PRELIMINARY PLANS NOT FOR CONSTRUCTION

GENERAL CONVENTIONAL NOTES:

ALL SPLICES NOTED ON THIS PLAN SHALL BE APPROVED BY CENTRAL OFFICE TRAFFIC OPERATIONS. THESE SPLICES SHALL BE WATERPROOF AND SHALL BE OF THE CORRECT SIZE FOR THE WIRE USED AND SHALL BE RAYCHEM (TAP-2(B)), OR APPROVED EQUAL. ALL SPLICES SHALL BE INCIDENTAL TO THE WIRE AND CABLE BEING INSTALLED.

CONVENTIONAL LIGHTING:

ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING. ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON 'LUMINAIRE DESIGNATION EXAMPLE' ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

WIRING SCHEDULE

FROM	TO	CIRCUIT NO.	RUN NO.	RUN LENGTH (FT)	CONDUIT 3" RM	CONDUCTOR 3/C #8 IN DUCT	NOTES
LCC	1-1-C-12-10	CK1	001	180		180	
1-1-C-12-10	A1	CK1	002	15		15	
A1	A2	CK1	003	80	160	80	
A2	1-2-C-12-8	CK1	004	65		65	
1-2-C-12-8	1-3-C-12-8	CK1	005	90		90	
1-3-C-12-8	A3	CK1	006	30		30	
A3	A4	CK1	007	60	60	60	
A4	1-4-C-12-10	CK1	008	95		95	
LLC	A5	CK2	009	70		70	
A5	A6	CK2	010	60	120	60	
A6	2-1-C-12-10	CK2	011	135		135	
2-1-C-12-10	A7	CK2	012	40		40	
A7	A8	CK2	013	95	95	95	
A8	2-2-C-12-6	CK2	014	20		20	
2-2-C-12-6	2-3-C-12-10	CK2	015	175		175	
2-3-C-12-10	A9	CK2	016	240		240	
A9	A10	CK2	017	70	70	70	
A10	2-4-C-12-10	CK2	018	15		15	
2-4-C-12-10	A11	CK2	019	90		90	
A11	A12	CK2	020	90	180	90	
A12	2-5-C-12-10	CK2	021	20		20	
2-5-C-12-10	2-6-C-12-10	CK2	022	90		90	
2-6-C-12-10	A13	CK2	023	20		20	
A13	A14	CK2	024	60	60	60	
A14	2-7-C-12-10	CK2	025	60		60	

NOTE:

- AT THESE JB LOCATIONS NEXT TO POLES, STRIP DUCT FROM CABLE @ BOX. RUN WIRE THROUGH STEEL CONDUIT TO POLE BASE.



MT PKWY LIGHTING PLAN
STA 133+25 TO STA 143+00

FILE NAME: I:\S\IN\LEGACY\JOBS\XO\2010\PB\1100.76\8298-KY MOUNTAIN INTERCHANGE\DRAWING\ROADWAY_R14_STANDALONE.DGN
 USER: cshawalter
 DATE PLOTTED: April 12, 2016
 E-SHEET NAME: T006001
 MicroStation v8.11.9.536