RESOLUTION 16-03

A RESOLUTION AMENDING THE DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN HYRUM CITY.

WHEREAS, the Hyrum City Council approved the revised Design Standards and Construction Specifications for Public Works Construction in Hyrum City in January 2003; and

WHEREAS, the Design Standards and Construction Specifications for Public Work Construction provides general requirements and design guidelines for installation of utilities and other public improvements in Hyrum City; and

WHEREAS, upon recommendation of Hyrum City's Engineer and Public Works Department, the City Council has determined there is a need to amend and update Hyrum City's Design Standards and Construction Specifications for Public Works Construction.

NOW, THEREFORE, BE IT RESOLVED by the City Council of Hyrum, Cache County, Utah, to approve the revisions, attached hereto as Exhibit "A", to Hyrum City's Design Standards and Construction Specifications for Public Works Construction in Hyrum

THIS RESOLUTION shall become effective upon adoption.

ADOPTED AND PASSED by the Hyrum City Council this $7^{\rm th}\,day$ of January, 2016.

HYRUM CITY CORP.

BY:

Stephanie Miller Mayor

ATTEST:

Stephanie Fricke City Recorder





SECTION 7

HYRUM CITY GENERAL REQUIREMENTS AND SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS

7. GENERAL REQUIREMENTS AND SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS

7.1 <u>GENERAL REQUIREMENTS</u>:

7.1.1 <u>GENERAL</u>:

All electrical work shall be in compliance with the latest edition of the National Electric Code, International Building Code, ICC Electrical Code and the National Electrical Safety Code except where these specifications are more stringent. If there is a conflict between standards, the most stringent shall rule. The customer shall provide all secondary service wire from the point of connection to the meter base on underground services. Customer shall provide conduit in place from the point of connection to the meter base with pulling tape provided in the conduit. The city's electrical department will pull the secondary service wire. Hyrum City will provide all service wire to the meter mast on overhead connections.

7.1.2 <u>INSTALLATION</u>:

- A. <u>Voltage Cables</u>: All primary voltage cables shall be buried 42-inches deep from finish grade. All secondary voltage cables shall be buried 24-inches deep from finish grade except when they cross streets in which case they shall be buried 42-inches deep from finish grade. All cable shall be installed in not less than Schedule 40 conduit, 3-inches in diameter or larger, depending on the cable size and distance. Pulling tape shall be provided in the conduit and the city's electrical department will pull all cable.
- B. <u>Conduit</u>: All conduit shall be embedded in sand except at street crossings. The sand shall extend a minimum of 2-inches below and 4-inches above the conduit. All cable crossing streets, shall be enclosed in an appropriate diameter conduit encased in concrete for a minimum depth of 4-inches on all sides, top and bottom of the conduit. Hyrum City provides all service wire to the meter mast on overhead connections. The Contractor shall provide all secondary service wire from the point of connection to the meter base on all underground services. The contractor shall provide conduit in place from the point of connection to the meter base with pulling tape provided in the conduit. The city's electrical department

will pull the secondary service wire. Hyrum City will provide all service wire to the meter mast on overhead connections.

- C. <u>Junction Boxes</u>: Primary and secondary junction boxes shall be placed so as to avoid being filled with drainage water.
- D. <u>Box Pads</u>: Box pads shall be placed on well compacted and level ground. The top of the transformer pad shall be at least 2-inches above the sidewalk. Two ground rods 5/8" diameter x 8' long shall be driven at each transformer at 5' center to center and one at each primary junction point. All concentric neutrals shall be connected and commonly grounded to the driven ground rod.

7.1.3 <u>INSPECTION</u>:

All work shall be inspected and approved by the City's Electrical Department personnel before burial. Final inspection and energizing the system will be done by the City's Electrical Department.

7.2 <u>SERVICE</u>:

7.2.1 <u>RESIDENTIAL SERVICE</u>:

All residential services shall be sized in accordance with the following table. The minimum service permitted shall be 150 amp service:

SF of Residence	Service	Secondary Conductor	Neutral
Under 1200 SF	150 amp	1/0 Alum	#2 AWAC
1200SF & Above	200 amp	4/0 Alum	2/0 AWAC

7.2.2 <u>GROUNDING</u>:

The grounding system shall have sufficient grounding electrodes, effectively bonded together, to prevent the maximum resistance to ground exceeding 25 ohms.

7.3 <u>MATERIALS</u>:

7.3.1 <u>CONDUCTOR</u>:

- A. <u>High Voltage or Primary Cable</u>: The conductor shall be of "EC" Grade Aluminum (15 kV EPR- Jacked Cable, Concentric Neutral). The size shall be indicated on the drawings and approved by Hyrum City Electrical Department.
- B. <u>Low Voltage or Secondary Cable</u>: Cable shall be tri-plexed aluminum "EC". Individual conductors shall be covered with XLP insulation rated 600 V.
- C. <u>Street Lights</u>: Street light conductors shall be two #12 AWG in a 2" diameter conduit.

7.3.2 <u>TRANSFORMERS</u>:

- A. <u>Single-Phase Pad Mount Transformer</u>: The transformer shall be ANSI Type II equipped with two (2) primary loadbreak bushings, with two (2) taps @ 2.5% above and below normal, three (3) secondary LV terminations shall be copper studs. Evaluation Formula inputs used shall be: \$5/kW NL and \$2/kW LL. Purchase preference is BEST Total Ownership Cost. Allowed KVA ratings are 25, 37.5, 50, 75, and 100 kVA. Primary voltage: 12,470/7,200 volts grounded Y. Secondary voltage: 240/120 volts. The HV Arrangement shall be Loop. Fusing shall be Flapper Bayonet-Dual Sensing. No loadbreak switch, LV breaker, arrester, gauges, shall be provided. The Drain Port shall use a ½" NPT Drain Plug. Tank Material shall be Mild Steel. Transformers are to be dead front. Markings shall be KVA Decal on the front with a duplicate exterior name plate. LV secondary bars installed Utilco (3) PTF6-350CUP. Ground lugs to accommodate 1/0 bare copper.
- B. <u>Single-Phase Pad Mount with Line Tap</u>: Same as A. above except with 3 primary loadbreak bushings needed.

7.3.3 TRANSFORMER PAD:

The transformer pads for transformers less than 100 KVA shall be Nordic single-phase box pad #CBP-37-43-15A (with cable openings 12" x 24") or approved equal. Concrete pads shall be approved by the Hyrum City Electric Department.

- A. <u>Site Preparation</u>: All dirt beneath the pad site must be compacted and level prior to setting or pouring the pad to prevent settling.
- B. <u>Concrete</u>: Concrete shall be made using 6 bags of standard brand of Portland cement per cubic yard. Steel reinforcement shall be No. 4 bars placed on 12-inch centers and in accordance with the concrete transformer pad drawing. The pad must be poured at least three full days prior to setting the transformer. Concrete shall be kept above freezing at least 72 hours after pouring. The finished surface must be completely flat and level.
- C. <u>Conduit Window Layout</u>: Low voltage conduits shall be formed as tightly as possible against the right side of the opening and shall in no case extend further than 20-inches from the right side of the conduit window on a small pad (96" x 78") or 30-inches on a large pad (100" x 103"). Do not put any concrete in or under the conduit window. Use dirt to separate conduits. All construction shall be in accordance with the latest International Electric Code and approved by Hyrum City Electrical Department.
- D. <u>Clearances</u>: The front of the pad should always face away from adjacent structures and be free of obstructions. At least 3 feet must separate the edges of the pad from any adjacent structure. The edges of the pad must be at least ten feet from any combustible structures.

7.3.4 PRIMARY VOLTAGE JUNCTION VAULT:

The primary voltage junction vault shall be three phase with hinged door, Nordic or approved equal.

7.3.5 <u>SECONDARY JUNCTION BOX</u>:

The secondary junction box shall be an upright pedestal type, Pencell-AG-20-HDX or approved equal.

7.3.6 <u>CONDUCTOR FITTINGS</u>:

Splices shall be pre-molded Elastimold 25S or approved equal. Loadbreak elbows shall be Elastimold 166 LRR or approved equal. Loadbreak Junctions shall be Elastimold 163 J3R7 or approved equal. Secondary connectors shall be CMC SSBC 360-UCI positioned as needed.

7.3.7 MARKING TAPE:

Marking tape shall be installed 12" above all buried cable. It shall be red in color, 3" wide and state; "Caution – Buried Electric Cable Below".

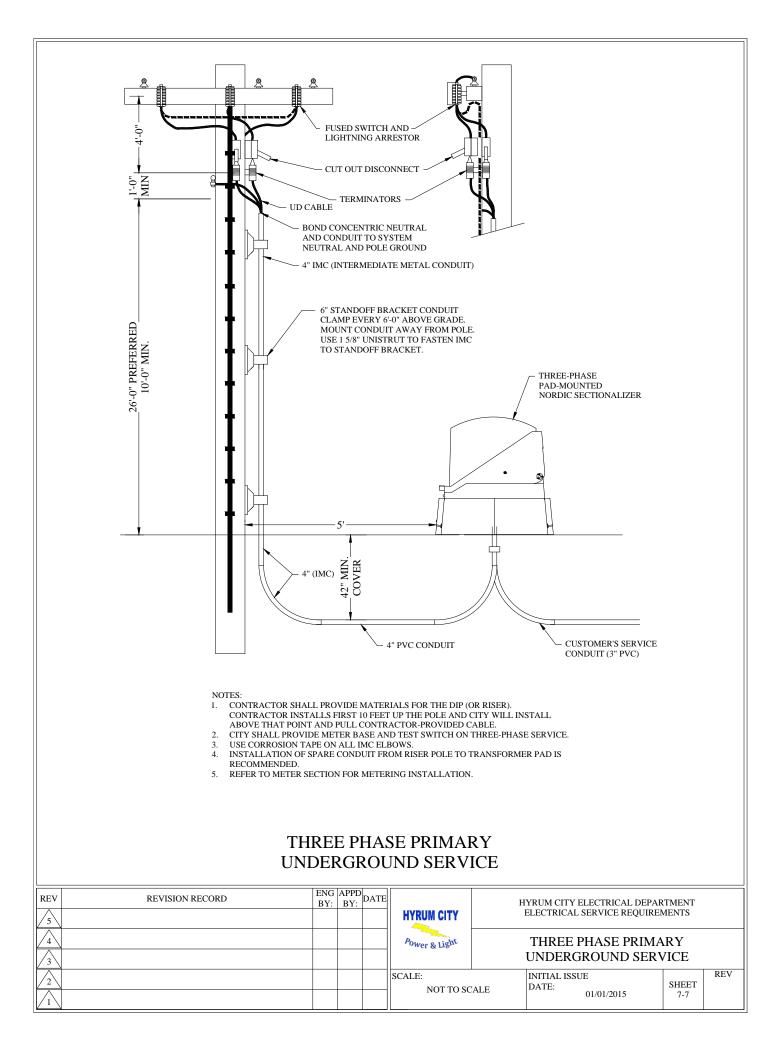
7.3.8 SUBDIVISION POLE TOP LUMMINARIES:

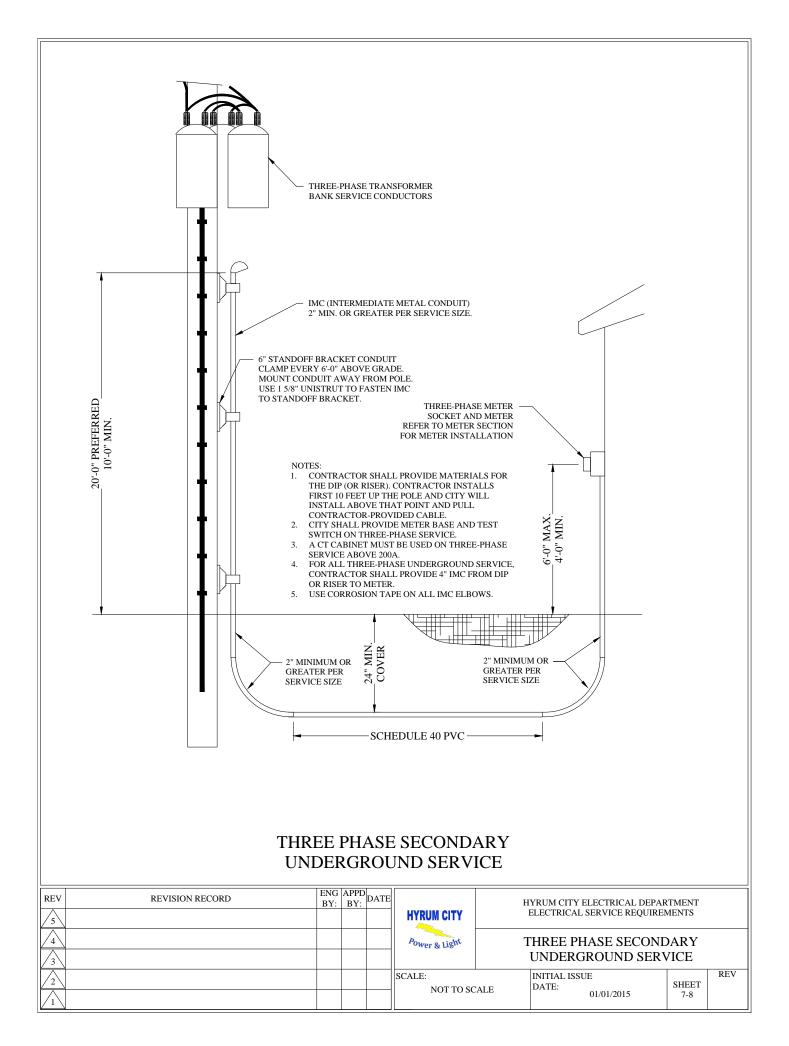
Pole Top Luminaries shall be mounted atop a tapered aluminum pole. The mounting height shall be 20 feet above finish grade. The fixture shall be AMERICAN LIGHTING – AMERICAN REVOLUTION LED SERIES #247L 20LEDE10 MVOLT 4K R2 AY _____ TL LDR. Poles shall be 20' aluminum CONTEMPO #E-200P.P by I.T.T.. An in-line fuse located at the closest transformer or secondary junction box shall be 6 amp, type KLKR6. The concrete base for the light pole shall be set approximately one inch above the finish grade of the sidewalk.

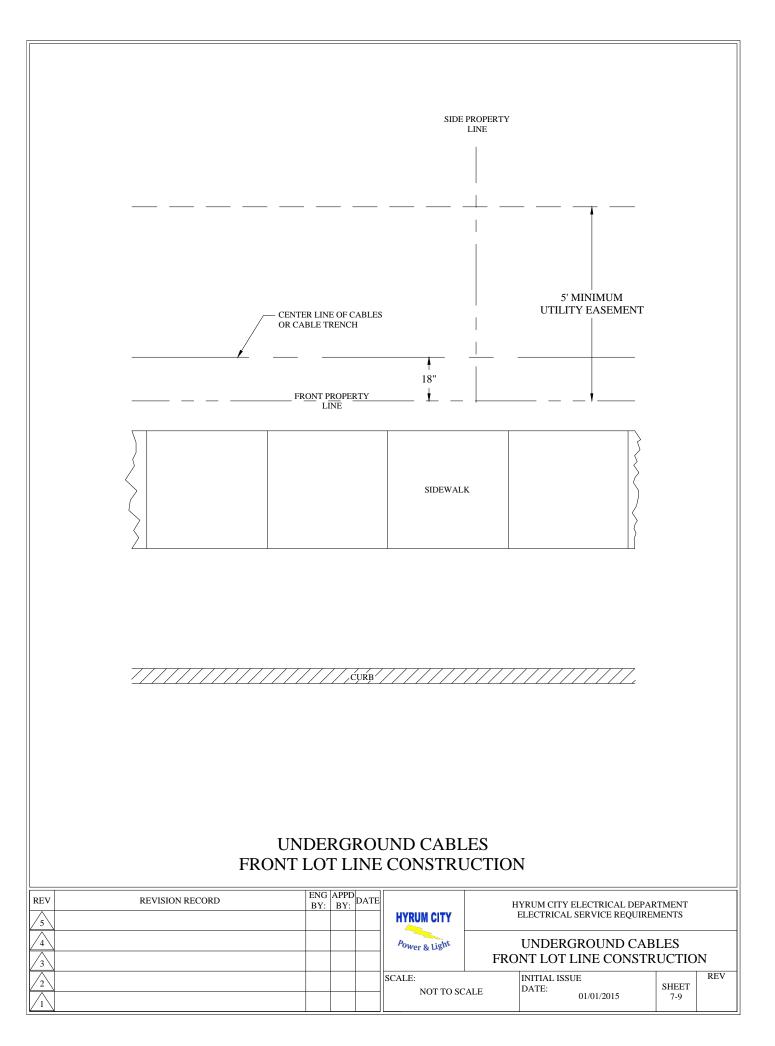


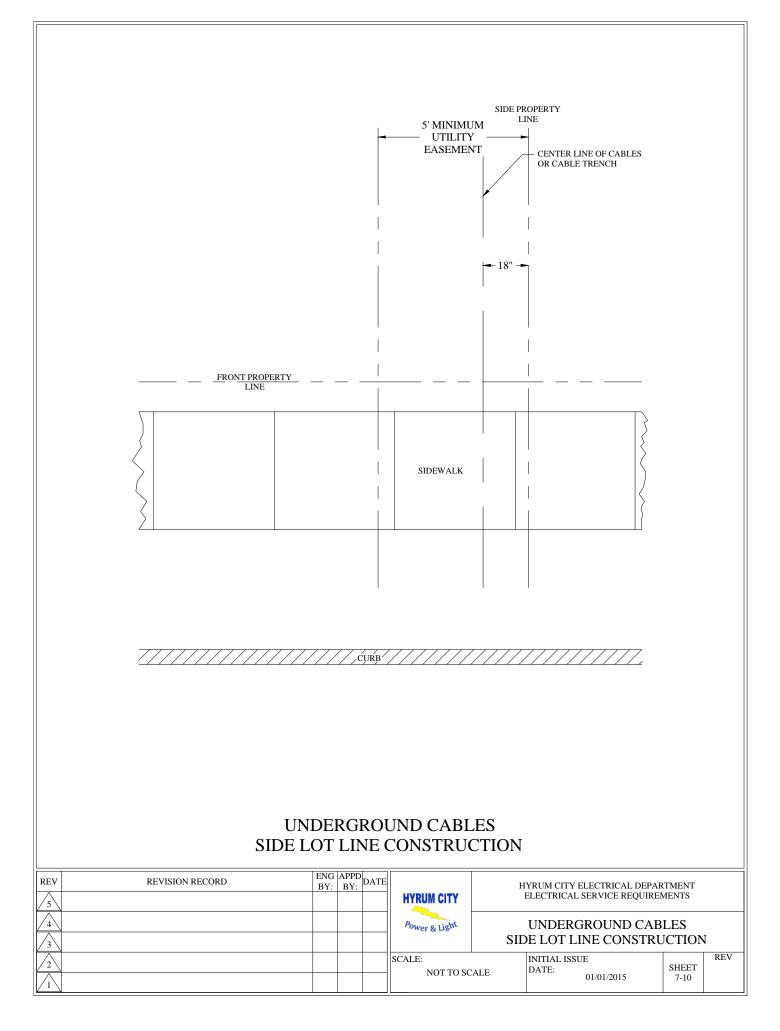
STANDARD DETAIL DRAWINGS

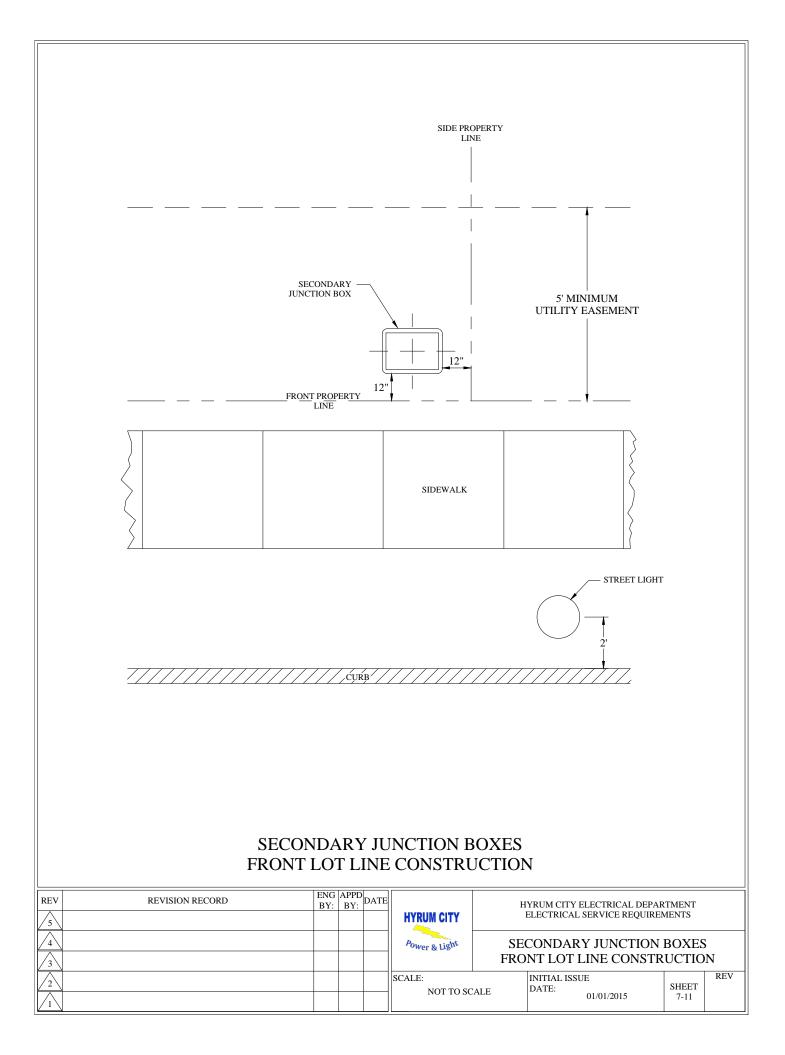
HYRUM CITY ELECTRICAL DEPARTMENT

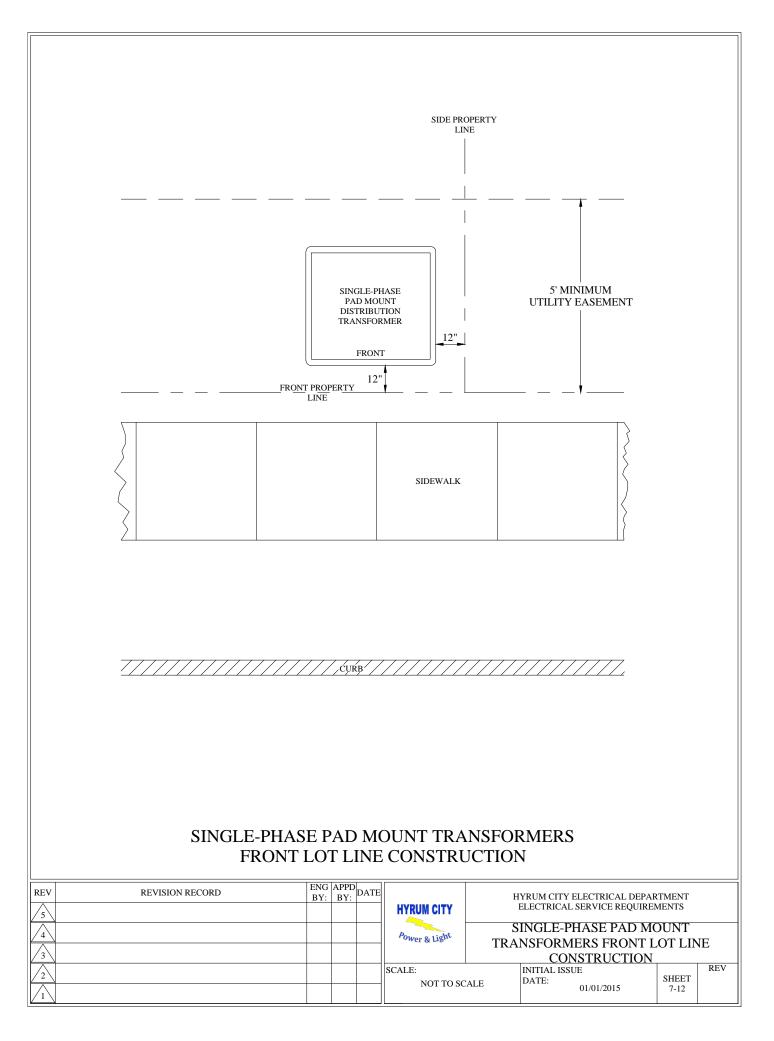




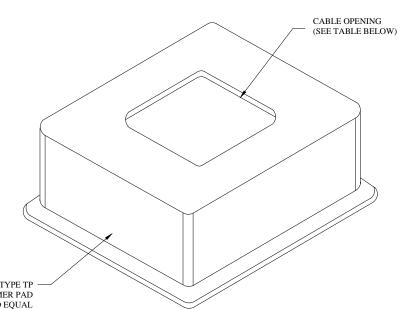








		NORDIC FIBERG TRANSFORMER BOX P	LASS CBD-37-43-15A AD OR APPROVED EQ	UAL		
	 TRANSFORMER BOX PAD SPECIFICAT SHALL BE FIRE-RETARDANT COI SHALL HAVE RIBS MOLDED INTO SHALL ACCOMMODATE TRANSF SHALL HAVE EXTERNAL RIBS M SHALL HAVE 6 ¾" STAINLESS ST ALIGNMENT AND SUPERIOR PUI TOP MEASUREMENT 37" X 43" FIBERGLASS SHALL RESIST FER SHALL BE RUS ACCEPTED CONTRACTOR SHALL PROVIDE A TRANSFORMER BOX PAD. ALL TRANSFORMER PADS MUST COMPLIANCE WITH THE INTERN 	MPRESSION MOLDED FI O INTERIOR OF BOX PAI FORMERS RANGING FRO OLDED INTO SIDE WAL EEL FLOATING NUT AS. L-OUT STRENGTH. TOP OPENING 22" X 23.4" FILIZERS, SALT AIR, AN A MINIMUM OF EIGHT (3 BE SIZED AND APPROV	D TO PROVIDE RESIST OM 25 KVA UP TO 167 LS FOR RESISTANCE SEMBLIES AS STAND. HEIGHT 15" D ULTRAVIOLET ATT 3) FEET OF EXTRA CA YED BY HYRUM CITY	TANCE TO TOF KVA. TO SIDE WALI ARD FOR BETT BOTTOM FLAN 3.5" WIDE ACKS. BLE WRAPPEI	L DEFLECTIONS. FER PENTA-HEAD BOLT NGE D INSIDE THE	
		TRANSFO	RMER PAI LL TYPE)		
REV 5	REVISION RECORD	ENG APPD BY: BY: DATH	HYRUM CITY Power & Light		YRUM CITY ELECTRICAL DEP ELECTRICAL SERVICE REQUIF TRANSFORMER P PENCELL TYPE	PAD
			SCALE: NOT TO SC		INITIAL ISSUE DATE: 01/01/2015	SHEET 7-13



PENCELL, TYPE TP TRANSFORMER PAD OR APPROVED EQUAL (SEE TABLE BELOW)

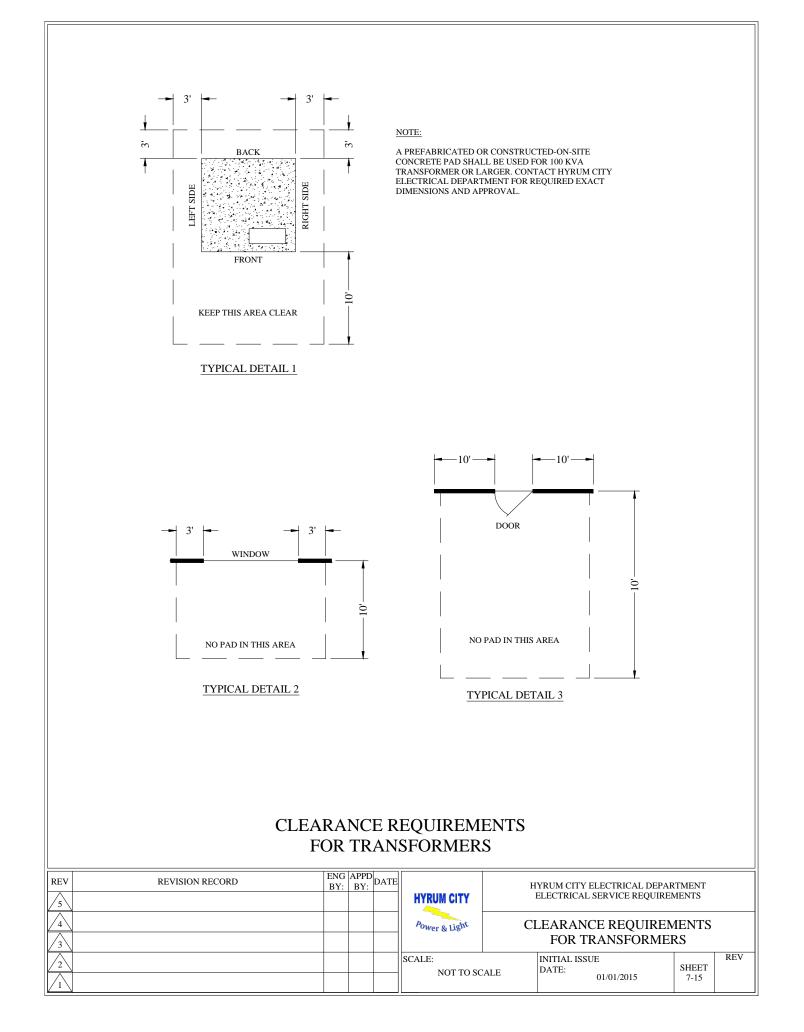
PART NO.	CABLE OPENING	TRANSFORMER PAD SIZE	WEIGHT
TP-4220	12" x 20"	42" x 42"	45 LBS
TP-4224	12" x 24"	42" x 42"	45 LBS
TP-4227	12" x 27"	42" x 42"	45 LBS

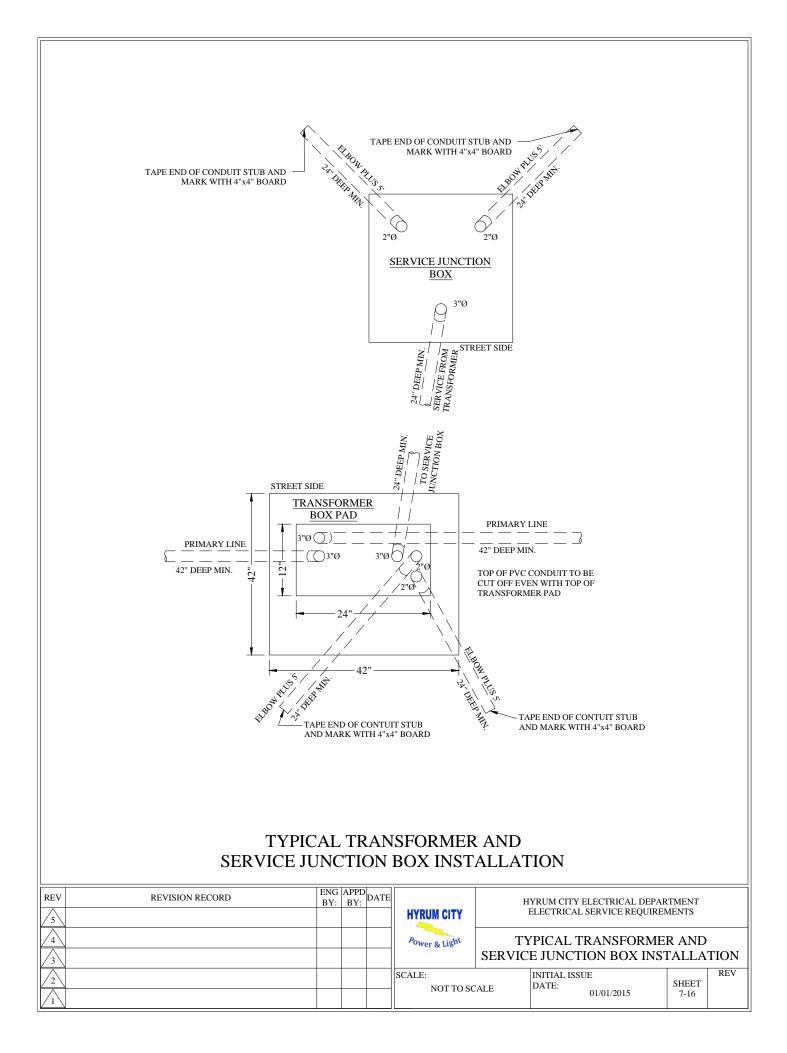
NOTE:

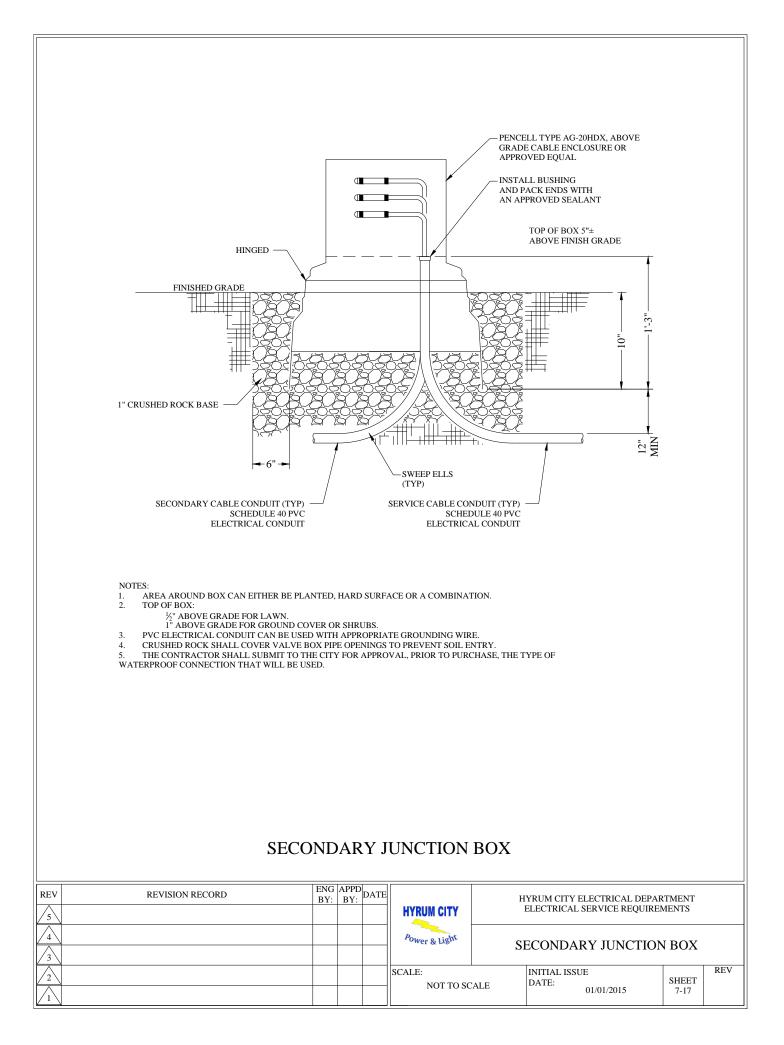
ALL TRANSFORMER PADS MUST BE SIZED AND APPROVED BY HYRUM CITY ELECTRICAL DEPARTMENT TO MATCH THE SIZE OF THE TRANSFORMER TO BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE.

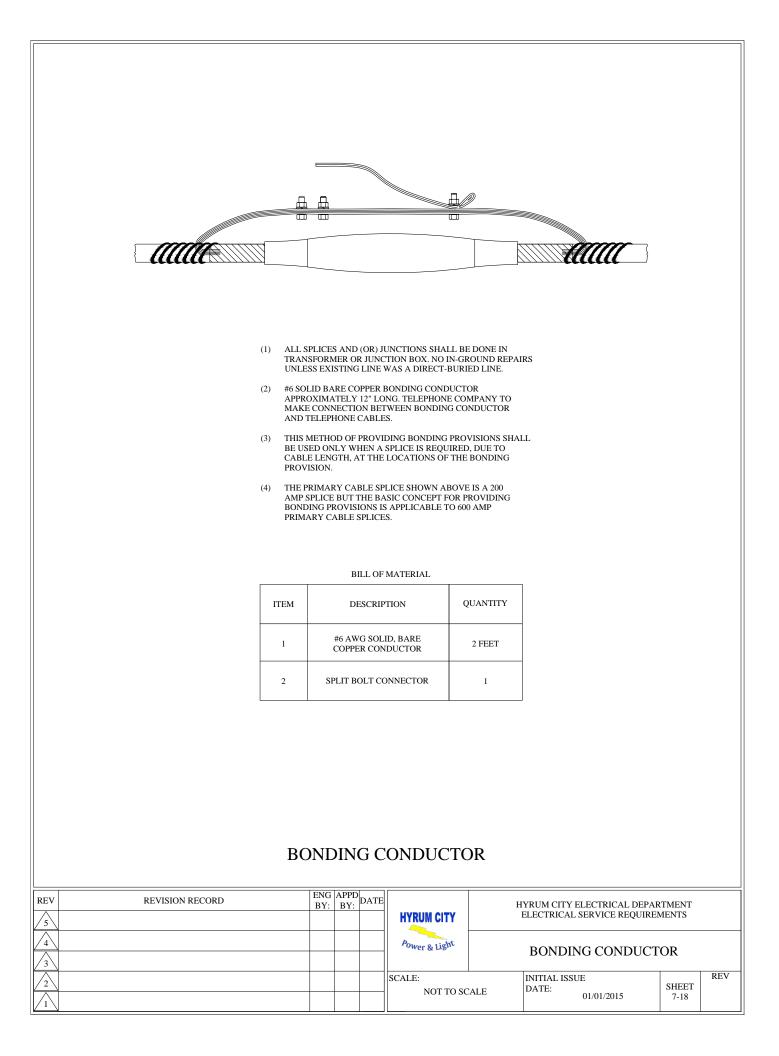
TRANSFORMER PAD PENCELL TYPE TP

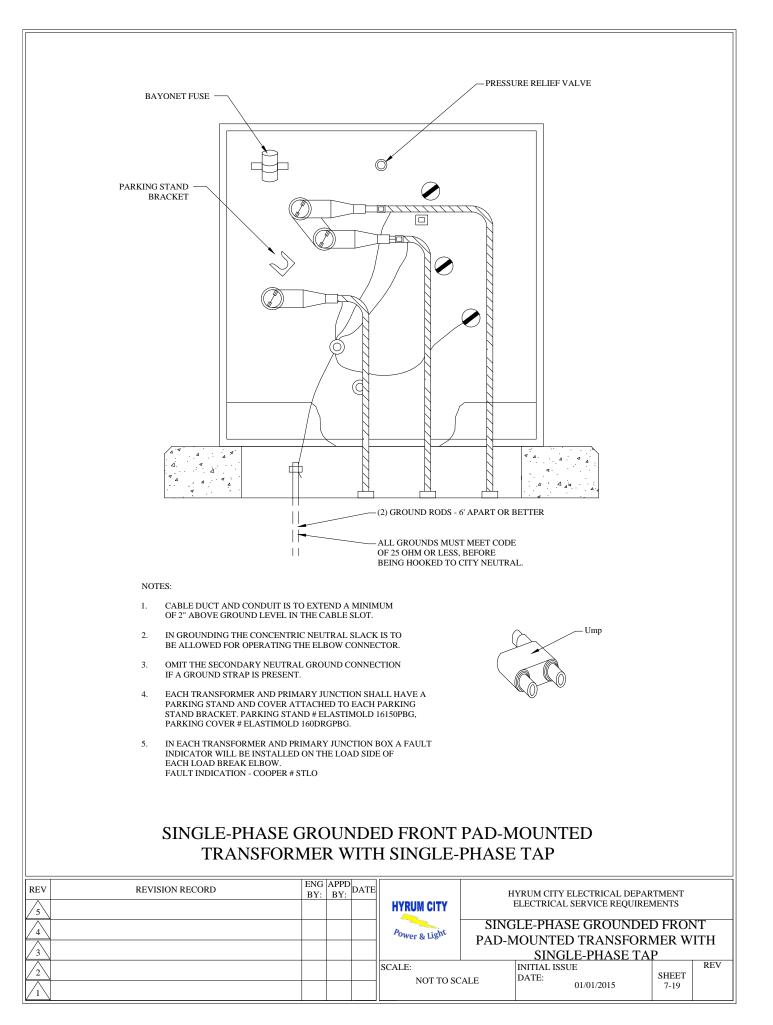
REV	REVISION RECORD	ENG BY:	APPD BY:	DATE	HYRUM CITY		YRUM CITY ELECTRICAL DEPAR ELECTRICAL SERVICE REQUIREN		
4					Power & Light		TRANSFORMER PA PENCELL TYPE TF	_	
					SCALE: NOT TO SC		INITIAL ISSUE DATE:	SHEET	REV
1					Not to se	ALE	01/01/2015	7-14	

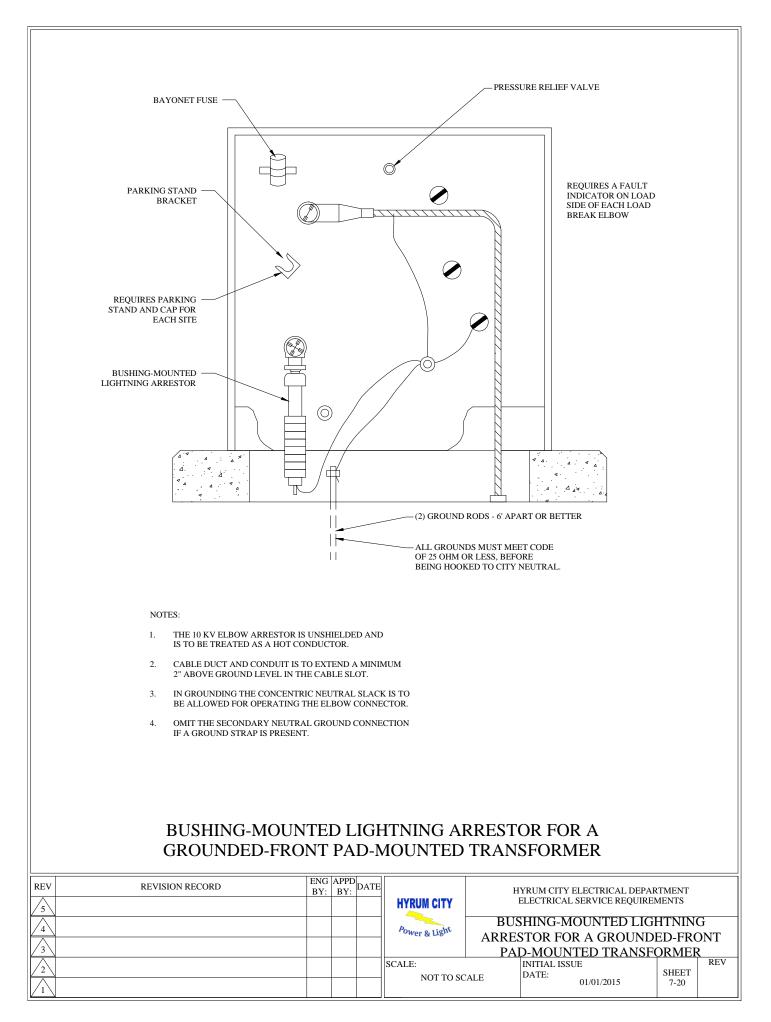


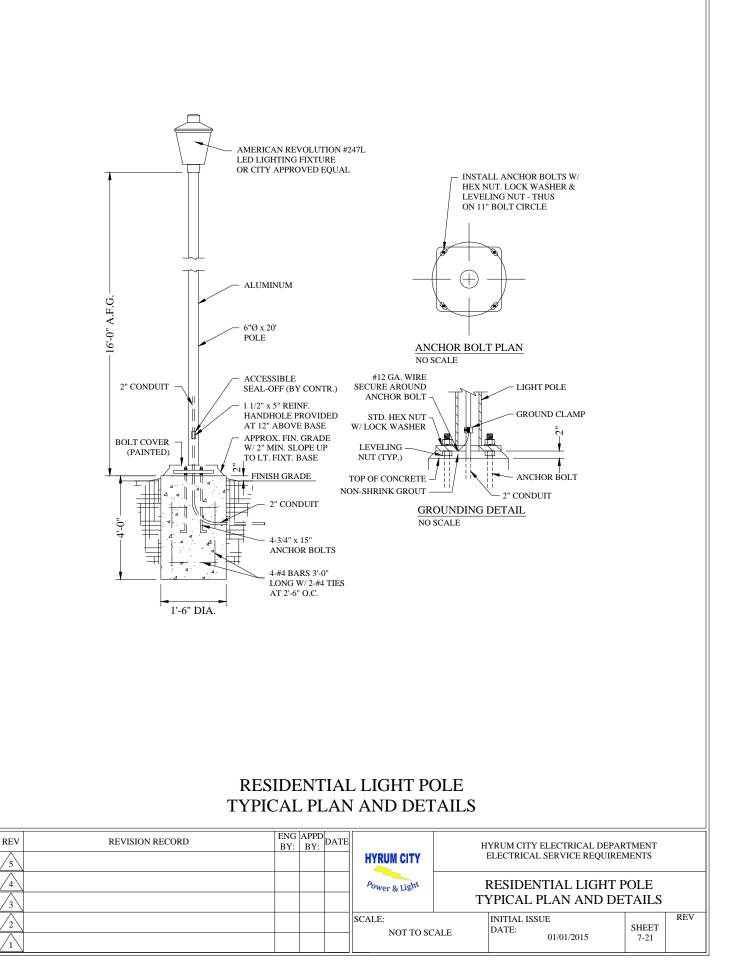


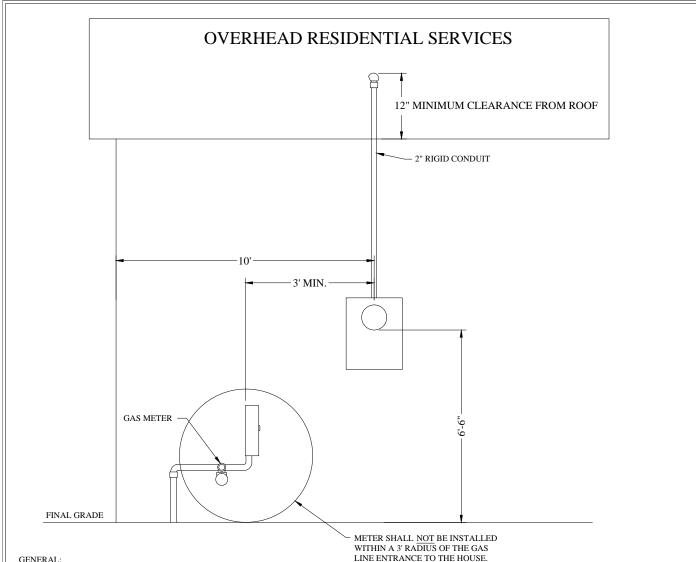












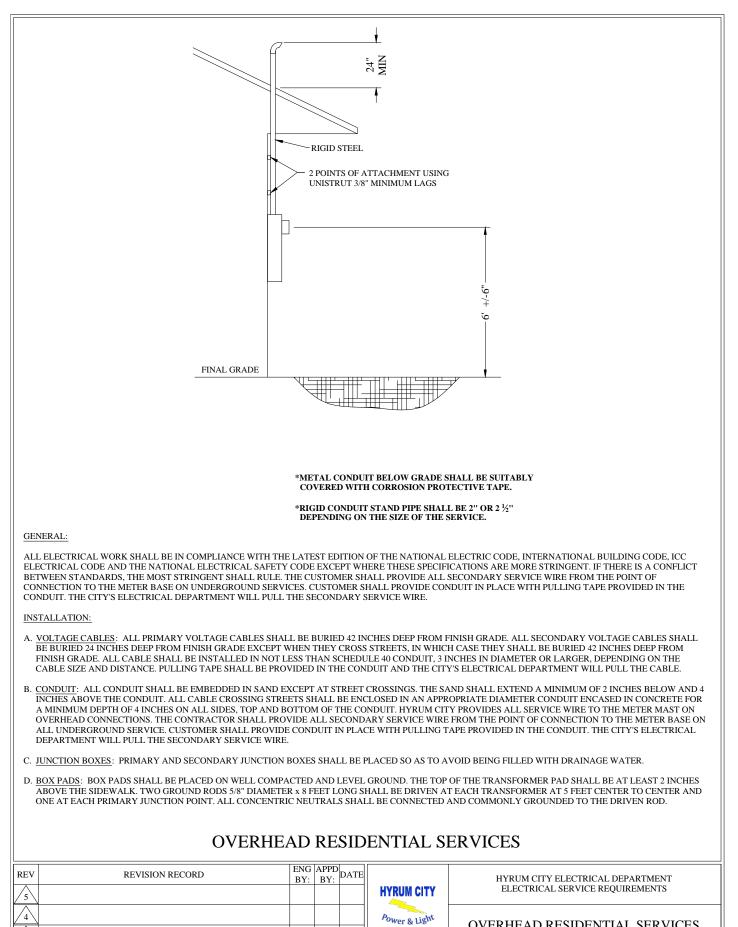
GENERAL:

ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, INTERNATIONAL BUILDING CODE, ICC ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE EXCEPT WHERE THESE SPECIFICATIONS ARE MORE STRINGENT. IF THERE IS A CONFLICT BETWEEN STANDARDS, THE MOST STRINGENT SHALL RULE. THE CUSTOMER SHALL PROVIDE ALL SECONDARY SERVICE WIRE FROM THE POINT OF CONNECTION TO THE METER BASE ON UNDERGROUND SERVICES. CUSTOMER SHALL PROVIDE CONDUIT IN PLACE WITH PULLING TAPE PROVIDED IN THE CONDUIT. THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE SECONDARY SERVICE WIRE.

INSTALLATION:

- A. VOLTAGE CABLES: ALL PRIMARY VOLTAGE CABLES SHALL BE BURIED 42 INCHES DEEP FROM FINISH GRADE. ALL SECONDARY VOLTAGE CABLES SHALL BE BURIED 24 INCHES DEEP FROM FINISH GRADE EXCEPT WHEN THEY CROSS STREETS, IN WHICH CASE THEY SHALL BE BURIED 42 INCHES DEEP FROM FINISH GRADE. ALL CABLE SHALL BE INSTALLED IN NOT LESS THAN SCHEDULE 40 CONDUIT, 3 INCHES IN DIAMETER OR LARGER, DEPENDING ON THE CABLE SIZE AND DISTANCE. PULLING TAPE SHALL BE PROVIDED IN THE CONDUIT AND THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE CABLE.
- B. CONDUIT: ALL CONDUIT SHALL BE EMBEDDED IN SAND EXCEPT AT STREET CROSSINGS. THE SAND SHALL EXTEND A MINIMUM OF 2 INCHES BELOW AND 4 INCHES ABOVE THE CONDUIT. ALL CABLE CROSSING STREETS SHALL BE ENCLOSED IN AN APPROPRIATE DIAMETER CONDUIT ENCASED IN CONCRETE FOR A MINIMUM DEPTH OF 4 INCHES ON ALL SIDES, TOP AND BOTTOM OF THE CONDUIT. HYRUM CITY PROVIDES ALL SERVICE WIRE TO THE METER MAST ON OVERHEAD CONNECTIONS. THE CONTRACTOR SHALL PROVIDE ALL SECONDARY SERVICE WIRE FROM THE POINT OF CONNECTION TO THE METER BASE ON ALL UNDERGROUND SERVICE. CUSTOMER SHALL PROVIDE CONDUIT IN PLACE WITH PULLING TAPE PROVIDED IN THE CONDUIT. THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE SECONDARY SERVICE WIRE.
- C. JUNCTION BOXES: PRIMARY AND SECONDARY JUNCTION BOXES SHALL BE PLACED SO AS TO AVOID BEING FILLED WITH DRAINAGE WATER.
- D. BOX PADS: BOX PADS SHALL BE PLACED ON WELL COMPACTED AND LEVEL GROUND. THE TOP OF THE TRANSFORMER PAD SHALL BE AT LEAST 2 INCHES ABOVE THE SIDEWALK. TWO GROUND RODS 5/8" DIAMETER x 8 FEET LONG SHALL BE DRIVEN AT EACH TRANSFORMER AT 5 FEET CENTER AND ONE AT EACH PRIMARY JUNCTION POINT. ALL CONCENTRIC NEUTRALS SHALL BE CONNECTED AND COMMONLY GROUNDED TO THE DRIVEN ROD.

REV	REVISION RECORD	ENG BY:	APPD BY:	DATE	HYRUM CITY		TMENT				
5						I	MENTS				
4					Power & Light OVER		OVERHEAD RESIDENTIAL SERVICES				
3						UVER	OVERHEAD RESIDENTIAL SERVICES				
2					SCALE:		INITIAL ISSUE DATE:	SHEET	REV		
1					NOT TO SCALE		01/01/2015	7-22			



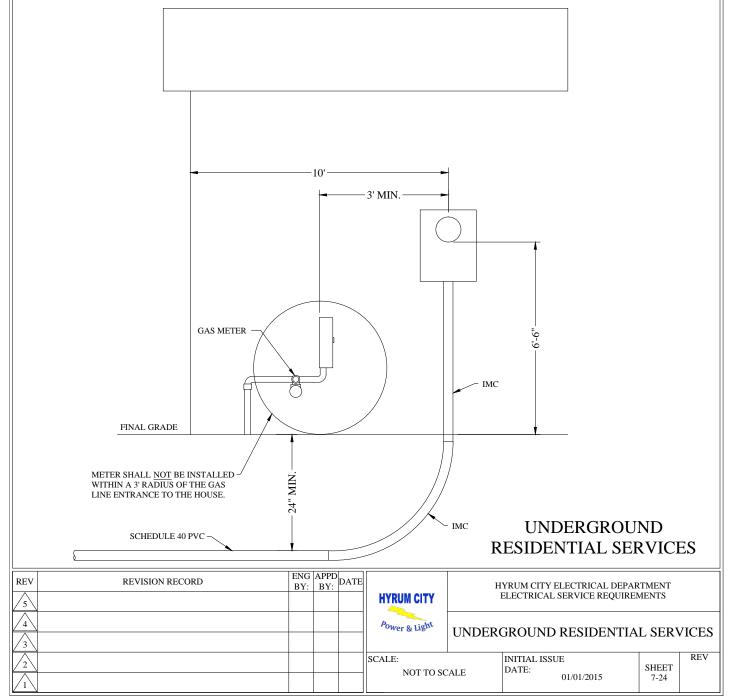
3				O V LIV			.10
2					INITIAL ISSUE DATE:	SHEET	REV
i					01/01/2015	7-23	

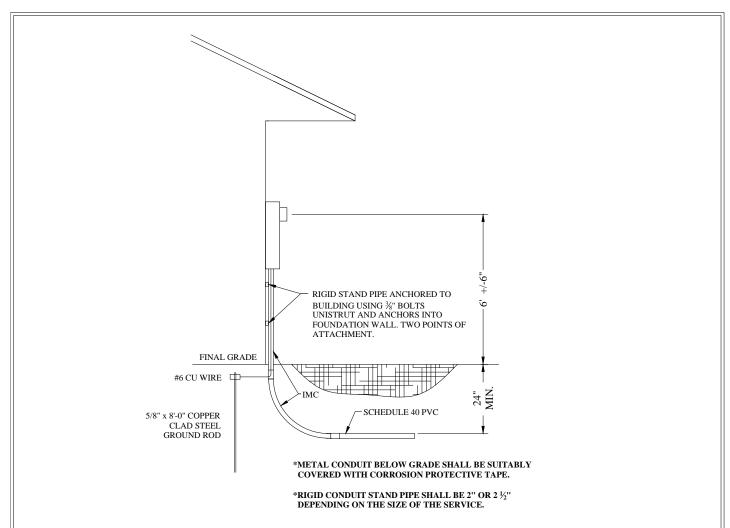
GENERAL:

ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, INTERNATIONAL BUILDING CODE, ICC ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE EXCEPT WHERE THESE SPECIFICATIONS ARE MORE STRINGENT. IF THERE IS A CONFLICT BETWEEN STANDARDS, THE MOST STRINGENT SHALL RULE. THE CUSTOMER SHALL PROVIDE ALL SECONDARY SERVICE WIRE FROM THE POINT OF CONNECTION TO THE METER BASE ON UNDERGOUND SERVICES. CUSTOMER SHALL PROVIDE CONDUIT IN PLACE WITH PULLING TAPE PROVIDED IN THE CONDUIT. THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE SECONDARY SERVICE WIRE.

INSTALLATION:

- A. <u>VOLTAGE CABLES</u>: ALL PRIMARY VOLTAGE CABLES SHALL BE BURIED 42 INCHES DEEP FROM FINISH GRADE. ALL SECONDARY VOLTAGE CABLES SHALL BE BURIED 24 INCHES DEEP FROM FINISH GRADE EXCEPT WHEN THEY CROSS STREETS, IN WHICH CASE THEY SHALL BE BURIED 42 INCHES DEEP FROM FINISH GRADE. ALL CABLE SHALL BE INSTALLED IN NOT LESS THAN SCHEDULE 40 CONDUIT, 3 INCHES IN DIAMETER OR LARGER, DEPENDING ON THE CABLE SIZE AND DISTANCE. PULLING TAPE SHALL BE PROVIDED IN THE CONDUIT AND THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE CABLE.
- B. <u>CONDUIT</u>: ALL CONDUIT SHALL BE EMBEDDED IN SAND EXCEPT AT STREET CROSSINGS. THE SAND SHALL EXTEND A MINIMUM OF 2 INCHES BELOW AND 4 INCHES ABOVE THE CONDUIT. ALL CABLE CROSSING STREETS SHALL BE ENCLOSED IN AN APPROPRIATE DIAMETER CONDUIT ENCASED IN CONCRETE FOR A MINIMUM DEPTH OF 4 INCHES ON ALL SIDES, TOP AND BOTTOM OF THE CONDUIT. HYRUM CITY PROVIDES ALL SERVICE WIRE TO THE METER MAST ON OVERHEAD CONNECTIONS. THE CONTRACTOR SHALL PROVIDE ALL SECONDARY SERVICE WIRE FROM THE POINT OF CONNECTION TO THE METER BASE ON ALL UNDERGROUND SERVICE. CUSTOMER SHALL PROVIDE CONDUIT IN PLACE WITH PULLING TAPE PROVIDED IN THE CONDUIT. THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE SECONDARY SERVICE WIRE.
- C. JUNCTION BOXES: PRIMARY AND SECONDARY JUNCTION BOXES SHALL BE PLACED SO AS TO AVOID BEING FILLED WITH DRAINAGE WATER.
- D. <u>BOX PADS</u>: BOX PADS SHALL BE PLACED ON WELL COMPACTED AND LEVEL GROUND. THE TOP OF THE TRANSFORMER PAD SHALL BE AT LEAST 2 INCHES ABOVE THE SIDEWALK. TWO GROUND RODS 5/8" DIAMETER x 8 FEET LONG SHALL BE DRIVEN AT EACH TRANSFORMER AT 5 FEET CENTER TO CENTER AND ONE AT EACH PRIMARY JUNCTION POINT. ALL CONCENTRIC NEUTRALS SHALL BE CONNECTED AND COMMONLY GROUNDED TO THE DRIVEN ROD.





GENERAL:

ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, INTERNATIONAL BUILDING CODE, ICC ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE EXCEPT WHERE THESE SPECIFICATIONS ARE MORE STRINGENT. IF THERE IS A CONFLICT BETWEEN STANDARDS, THE MOST STRINGENT SHALL RULE. THE CUSTOMER SHALL PROVIDE ALL SECONDARY SERVICE WIRE FROM THE POINT OF CONNECTION TO THE METER BASE ON UNDERGROUND SERVICES. CUSTOMER SHALL PROVIDE CONDUIT IN PLACE WITH PULLING TAPE PROVIDED IN THE CONDURT. THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE SECONDARY SERVICE WIRE.

INSTALLATION:

- A. <u>VOLTAGE CABLES</u>: ALL PRIMARY VOLTAGE CABLES SHALL BE BURIED 42 INCHES DEEP FROM FINISH GRADE. ALL SECONDARY VOLTAGE CABLES SHALL BE BURIED 24 INCHES DEEP FROM FINISH GRADE EXCEPT WHEN THEY CROSS STREETS, IN WHICH CASE THEY SHALL BE BURIED 42 INCHES DEEP FROM FINISH GRADE. ALL CABLE SHALL BE INSTALLED IN NOT LESS THAN SCHEDULE 40 CONDUIT, 3 INCHES IN DIAMETER OR LARGER, DEPENDING ON THE CABLE SIZE AND DISTANCE. PULLING TAPE SHALL BE PROVIDED IN THE CONDUIT AND THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE CABLE.
- B. <u>CONDUIT</u>: ALL CONDUIT SHALL BE EMBEDDED IN SAND EXCEPT AT STREET CROSSINGS. THE SAND SHALL EXTEND A MINIMUM OF 2 INCHES BELOW AND 4 INCHES ABOVE THE CONDUIT. ALL CABLE CROSSING STREETS SHALL BE ENCLOSED IN AN APPROPRIATE DIAMETER CONDUIT ENCASED IN CONCRETE FOR A MINIMUM DEPTH OF 4 INCHES ON ALL SIDES, TOP AND BOTTOM OF THE CONDUIT. HYRUM CITY PROVIDES ALL SERVICE WIRE TO THE METER MAST ON OVERHEAD CONNECTIONS. THE CONTRACTOR SHALL PROVIDE ALL SECONDARY SERVICE WIRE FROM THE POINT OF CONNECTION TO THE METER BASE ON ALL UNDERGROUND SERVICE. CUSTOMER SHALL PROVIDE CONDUIT IN PLACE WITH PULLING TAPE PROVIDED IN THE CONDUIT. THE CITY'S ELECTRICAL DEPARTMENT WILL PULL THE SECONDARY SERVICE WIRE.

C. JUNCTION BOXES: PRIMARY AND SECONDARY JUNCTION BOXES SHALL BE PLACED SO AS TO AVOID BEING FILLED WITH DRAINAGE WATER.

D. <u>BOX PADS</u>: BOX PADS SHALL BE PLACED ON WELL COMPACTED AND LEVEL GROUND. THE TOP OF THE TRANSFORMER PAD SHALL BE AT LEAST 2 INCHES ABOVE THE SIDEWALK. TWO GROUND RODS 5/8" DIAMETER x 8 FEET LONG SHALL BE DRIVEN AT EACH TRANSFORMER AT 5 FEET CENTER TO CENTER AND ONE AT EACH PRIMARY JUNCTION POINT. ALL CONCENTRIC NEUTRALS SHALL BE CONNECTED AND COMMONLY GROUNDED TO THE DRIVEN ROD.

REV	REVISION RECORD	ENG BY:	APPD BY:	DATE		HYRUM CITY ELECTRICA		
5					HYRUM CITY	ELECTRICAL SERVICE R	EQUIREMENTS	
4					Power & Light	UNDERGROUND RESIDE	NTIAL CEDA	UCES
3						UNDERGROUND RESIDE	INTIAL SERV	ICES
2					SCALE: NOT TO SC	INITIAL ISSUE DATE:	SHEET	REV
1					NOT TO SC	01/01/2015	7-25	

UNDERGROUND RESIDENTIAL SERVICES