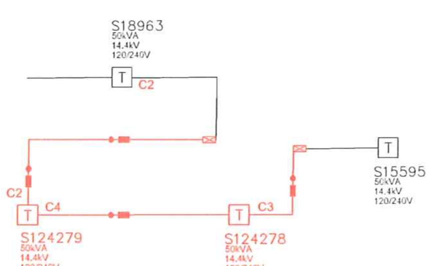
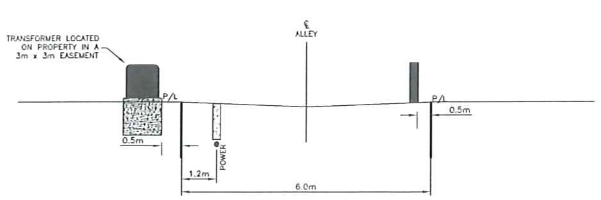
CONSTRUCTION NOTES:

1. ALL CABLES UNDER ROADWAYS TO BE INSTALLED IN 102mm SCHEDULE 40 PVC CONDUIT
2. ALL ROAD CROSSINGS REQUIRE CONDUIT FROM TRENCH LINE TO TRENCH LINE. INSTALL OMNI BALL MARKERS AT ENDS OF OUTER CONDUITS.
3. ROAD CROSSINGS MUST BE HIGHER AT ONE END WITH A MINIMUM OF 1.1m TO TOP OF HIGHEST DUCT AND A MAXIMUM OF 1.3m TO TOP OF LOWEST DUCT AT TRENCH ALIGNMENT. EXCAVATED AT RIGHT ANGLES TO THE ROAD.
4. SEE TYPICAL 20m R/W CROSS SECTION FOR TRENCH ALIGNMENT AND FURNITURE PLACEMENT.
5. CENTERLINE OF ALL STREET FURNITURE LOCATED ON PROJECTION OF PROPERTY LINE. UNLESS OTHERWISE NOTED. IF DIMENSIONED FROM LOT LINE ALL MEASUREMENTS TO CENTER OF STREET FURNITURE OR ROAD CROSSING.
6. MARKER TAPE TO BE PLACED ABOVE PRIMARY AND SECONDARY CABLES 500mm BELOW ROUGH GRADE (+/− 150mm) IN MAIN TRENCH FOR THE ENTIRE LENGTH OF TRENCH, PROVIDE A MINIMUM OF 150mm SAND BACKFILL ABOVE CABLES & A MINIMUM OF 150mm SAND BEDDING BELOW CABLES. SAND TO BE COMPACTED TO 95% PROCTOR.
7. COMPACTION OF ALL BACKFILL TO BE COMPLETED IN UNIFORM LIFTS NOT EXCEEDING 300mm COMPACTED DEPTH MEETING A 95% COMPACTION IN ALL LOCATIONS WITH THE EXCEPTION OF THE ROAD BASE WHERE 98% COMPACTION IS REQUIRED.
8. BACK EDGE OF SERVICE BOX TO BE LOCATED 0.5m BEYOND UTILITY R/W ON PROPERTY WITH A 1.5m SPACING FROM COMMON LOT LINE WITH A MINIMUM DEPTH OF 0.9m & COIL 30.0m OF POWER, CABLE & COMMUNICATIONS INSIDE. INSTALL OMNI MARKER BALL 1.0m FROM SERVICE BOX INTO PROPERTY.
9. ATCO ELECTRIC TO SPLICE INTO EXISTING PRIMARY AT TWO LOCATIONS
10. INSTALL 3m OF SCHEDULE 40 CONDUIT CENTERED ON FIRE HYDRANT TO ALLOW CABLE ALIGNMENT TO BE WITHIN 1.0m OF FIRE HYDRANT. ONE CONDUIT PER CABLE.
11. INSTALL JOINT USE PEDESTALS ON SECONDARY SIDE OF TRANSFORMER IF LOCATED ON THE SIDE LOTS, AND INSTALL JOINT USE PEDESTALS ON BACKSIDE OF TRANSFORMERS IF LOCATED ON THE FRONT OF THE LOTS.
12. FACILITY MAP TO SCALE UNLESS OTHERWISE DIMENSIONED. ALL DIMENSIONS TO CENTER OF FACILITIES.
13. ATCO ELECTRIC TO TIE INTO FIVE EXISTING JOINT USE PEDESTALS FOR 15 NEW SERVICE DROPS.

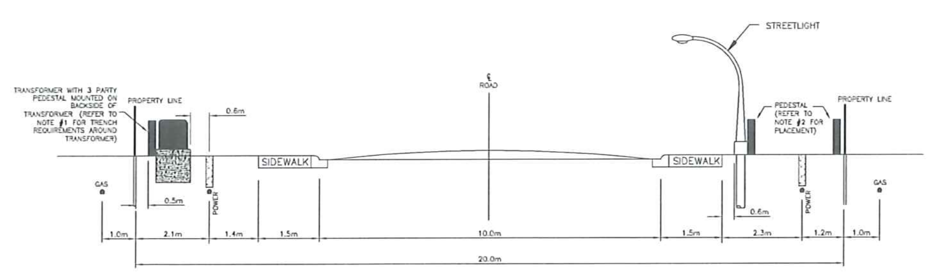
PLAN
1:700



SINGLE LINE DIAGRAM



TYPICAL 6.0m ALLEY CROSS SECTION
SCALE : N.T.S.



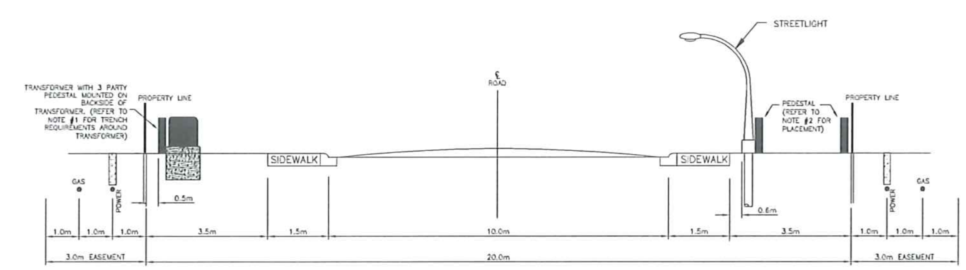
TYPICAL 20.0m SIDE LOT CROSS SECTION
SCALE : N.T.S.

NOTES:

#1 CENTERLINE OF TRENCH TO BE 1.2m ON ROAD ALLOWANCE UNLESS BYPASSING TRANSFORMER WHERE CENTERLINE OF TRENCH WILL JOG AROUND THE BASE OF TRANSFORMER VAULT WITH A 0.6m SEPARATION.

#2 PEDESTAL TO BE PLACED 0.5m FROM EDGE OF TRENCH UNLESS ATTACHED TO BACKSIDE OF STREETLIGHT OR TRANSFORMER.

#3 STREETLIGHT, PEDESTAL, & TRANSFORMER TO MAINTAIN 0.6m FROM EDGE OF SIDEWALK.



TYPICAL 20.0m R/W CROSS SECTION
SCALE : N.T.S.

NOTES:

#1 CENTERLINE OF TRENCH TO BE 1.0m ON PRIVATE PROPERTY UNLESS BYPASSING TRANSFORMER WHERE CENTERLINE OF TRENCH WILL JOG AROUND THE BASE OF TRANSFORMER VAULT WITH A 0.6m SEPARATION.

#2 PEDESTAL TO BE PLACED 0.5m FROM EDGE OF TRENCH UNLESS ATTACHED TO BACKSIDE OF STREETLIGHT OR TRANSFORMER.

#3 STREETLIGHT, PEDESTAL, & TRANSFORMER TO MAINTAIN 0.6m FROM EDGE OF SIDEWALK.

Updated by SES Engineering Ltd.

RECORD DRAWING
DATE: Aug 18, 2014
Information provided by SE Design and Consulting

SES (ENGINEERING) LTD.
SES (Engineering) Ltd.
13131 – 156 Street
Edmonton, Alberta, Canada
Phone (780) 424-8364

FACILITY MAP LEGEND

- 1-Ø #1AL UNDEGROUND PRIMARY CONDUCTOR
- 2/C, #300MCM AL, C/N SECONDARY
- 2/C, #2 AL, C/N STREETLIGHT
- 2/C #2 AL, C/N SECONDARY INDICATING # OF CONDUCTORS IN TRENCH
- 2C 1/0 AL C/N U/G SECONDARY
- SERVICE 1.5m OFF LOT LINE
- LIP OF GUTTER
- 1-102mm [ ] ROAD CROSSING, SCH 40 PVC c/w QUANTITY & SIZE
- 1-Ø PADMOUNT TRANSFORMER
- 100W HPS Streetlight on a 9m Brown Powdercoated Davit
- 150W HPS Streetlight on a 9m Brown Powdercoated Davit
- 3 PARTY JOINT-USE PEDESTAL
- FAULT INDICATOR FOR PADMOUNT TRANSFORMER
- CONDUCTOR NORMALLY OPEN POINT
- CONDUCTOR SPLICE
- FIRE HYDRANT
- DEEP SERVICES

PERMIT TO PRACTICE
SES (ENGINEERING) LTD.
Signature [signature]
Date Aug 19/14
PERMIT NUMBER: P 4274
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

PROFESSIONAL ENGINEER
AARON HARPER
ALBERTA
Aug 19/14

ATCO ELECTRIC REVIEW AND ACCEPTANCE

SIGNATURE DATE

ISSUED DESCRIPTION	DATE	BY	CHK	REV
ISSUED FOR AS-BUILDS	18/08/14	AH		2
RE-ISSUED FOR CONSTRUCTION	21/05/14	AH		1
ISSUED FOR CONSTRUCTION	16/04/14	GI	AH	0
RE-ISSUED FOR REVIEW	07/04/14	GI	AH	B
ISSUED FOR REVIEW	07/03/14	GI	AH	A

REVISION DESCRIPTION	DATE	BY	CHK'D
2 – UPDATED PER AS-BUILDS	18/08/14	AH	
1 – REVISED PRIMARY ALIGNMENTS	21/05/14	AH	

SE DESIGN AND CONSULTING
UNIT 1005, 5101 – 45 AVENUE COLD LAKE ALBERTA T9M 1P4 PH. (780) 594-5380

PROJECT:
NELSON HEIGHTS PHASE 8

TITLE & LOCATION:
PLAN DRAWING
COLD LAKE, AB
18 ST / 5 AVE TO 7 AVE

DRAWN BY: GI	
CHECKED BY: AH	
SCALE: AS SHOWN	
INITIAL DRAWING DATE: 07-03-14	CUSTOMER WORK ORDER NUMBER: D46646
DRAWING NUMBER: 001	REVISION NUMBER: 2