

HALTON HILLS HYDRO UNDERGROUND DISTRIBUTION SPECIFICATIONS

The following Underground Distribution Specifications (UD-Specs) were developed by Halton Hills Hydro Inc. to be used only in this utilities service area. The following standards have been approved by a Professional Engineering accredited by the PEO in accordance with Ontario Regulation 22/04 and the appropriate *Certificates* of Approval have been issued in the specifications latest revision. For proof of *Certificate*, please contact Halton Hills Hydro Inc., Engineering Department.

Halton Hills Hydro has and will continue to determine the application for each specification. Halton Hills Hydro will not be held responsible/ liable for any misuse of these specifications by others (inside or outside the limits of this utilities service area).

These specifications are not recommended for use outside of Halton Hills Hydro's distribution service area as other standards/ codes may apply in other areas. As such, Standards/ Codes/ other applicable documentation should be obtained from the utility responsible for power distribution in the area you are working, if not within the limits of this utilities service area.

Please note that these standards are subject to change without notification and as such it is recommended that the user confirm latest revision if in doubt.

Any questions should be direct to Halton Hills Hydro Inc., Engineering Department at 519-853-3700.

- UD-01 Typical Concrete Encased Duct Bank Section (8 ducts) Roadcrossing/ Boulevard
- UD-02 Concrete Encase Duct Bank Arrangements
- UD-03 Hydro, Bell & TV Joint Use Trench Section 1.200 m Depth, Direct Buried Ducts, Boulevard
- UD-04 Hydro, Bell & TV Joint Use Trench Section 1.425 m Depth, Direct Buried Ducts, Boulevard
- UD-05 Hydro, Bell & TV Joint Use Trench Section 1.675 m Depth, Direct Buried Ducts, Boulevard
- UD-06 Secondary Service Trench Section
- UD-07 Street Lighting Trench Section
- UD-08 Street Lighting Duct Termination Detail
- UD-09 Secondary Service Installation Detail for Single Phase up to 400A and three Phase up to 200A
- UD-09-REC Secondary Service Installation Detail (Recessed) for 1 Phase (& 3 Phase up to 200 AMP)
- UD-09B Secondary Service on Stub Pole Installation Detail for 1 Phase (& 3 Phase up to 200A)
- UD-09C CMS Secondary Service on Stub Pole Installation Detail for 1 Phase
- UD-09D Secondary Service Installation Detail for 1 Phase (up to 400A)

- UD-09E- Ganged Meter Base (3 Position Max. + Entry Door), Secondary Service on Wood Structure Installation Detail
- UD-10 Secondary Service Cable Splice Detail
- UD-11 Installation of Precast Foundation for Pad Mounted Transformer & Switchgear Including Grounding Detail
- UD-12 Proposed Typical Lot Servicing Agreement (Future)
- UD-13 Single Phase Low Profile Pad Mounted Transformer
- UD-14 Secondary Underground Cable Termination
- UD-15 Primary Underground Termination Pole
- UD-16 Typical 1 Phase Low Profile Pad Mounted Transformer Installation
- UD-17 Typical 3 Phase Pad Mounted Transformer Installation (Radial & Loop Feed)
- UD-18B Typical Canada Power Pad Mounted Switchgear with Resettable Fault Interrupter Installation Detail
- UD-18C Canada Power Pad Mounted Switchgear, 2 600A 3φ Loop Feed with Resettable Fault Interrupters on 6 – 200A Single Phase Taps
- UD-18D Canada Power Pad Mounted Switchgear, 2 600A 3φ Loop Feed with Resettable Fault Interrupters on 1 – 200A 3φ Tap and 3 – 200A Switchable Single Phase Taps
- UD-19 Faulted Circuit Indicator Installation Details
- UD-20 Typical Switching Kiosk Installation
- UD-23 Proposed Joint-Use Secondary Service Lateral (Step) Trench Section
- UD-24 Proposed Joint Use Primary & Secondary Hydro, Bell, T.V., & Gas Concrete Encased Step Trench Section (1.
- UD-25 Proposed Joint Use Primary & Secondary Hydro, Bell, T.V., & Gas Step Trench Section (1.525m Depth) Boulevard
- UD-26 Proposed Concrete Encased Duct Bank Section Step Trench (For 8 Ducts) – Roadcrossing
- UD-27 Concrete Foundation Standard (For Halton Hills Hydro 898 Series Canada Power Switchgear.
- UD-29 Concrete Foundation Standard Lid (for Retrofitting PMH-9 Foundations with Lid for 898 Series Canada Power Switchgears.
- UD-30 Directional Bore Street Crossing Secondary Services Typical.
- UD-31 Directional Bore Street Crossing Primary Services Typical

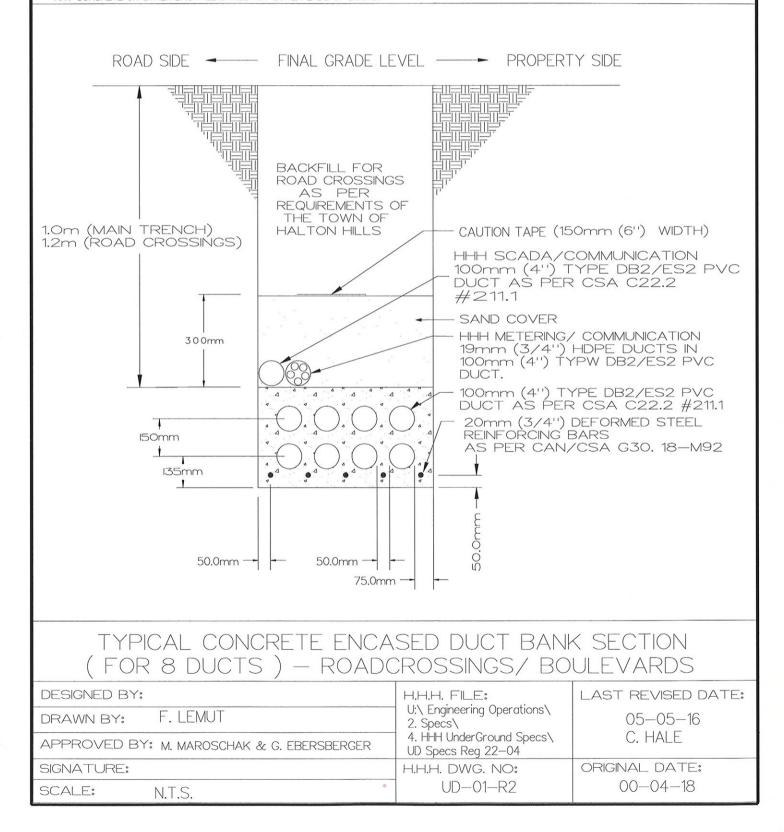
- End of List



- 1 OBTAIN ALL UTILITY LOCATES PRIOR TO CONSTRUCTION.
- 2. ALL DIMENSIONS ARE THE MINIMUM DISTANCES REQUIRED.
- 3. CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DAYS PRIOR TO BACKFILL TO SCHEDULE INSPECTIONS.
- 4. THE REINFORCING BARS ALONG THE BOTTOM SDES AND BOTTOM OF THE DUCT BANK SHALL BE CONCEALED WITH A MINIMUM OF 50mm OF CONCRETE COVER.
- 5. BACKFILL IN LAYERS NOT EXCEEDING 300mm. COMPACTION TO BE TO 95% PROCTOR DENSITY MINIMUM (AS PER CSA C22.3 No. 7-94 clause 3.5.3.2).
- 6. THIS SPECIFICATION MEETS OR EXCEEDS CSA C22.3 NO.7-94 STANDARD.
- ALL DUCTS TO BE PVC TYPE DB2/ES2 AS PER CSA-C22.2 #211.1 STANDARD. VACANT DUCTS TO BE CAPPED PRIOR TO BACKFILLING.
 5 19mm (3/4') PVC DUCTS TO BE INSTALLED INSIDE 100mm (4') PVC DUCT, BY CONTRACTOR.

9. ALL PVC DUCTS AND JOINTS TO BE GLUED WITH APPROVED ADHESIVE.

- 10. CABLE PULLING ROPES MUST BE INSTALLED IN ALL DUCTS AT TIME OF DUCT INSTALLATION. ANY CONCRETE OR OTHER BACKFILL SHALL NOT COVER ENDS OF DUCTS.



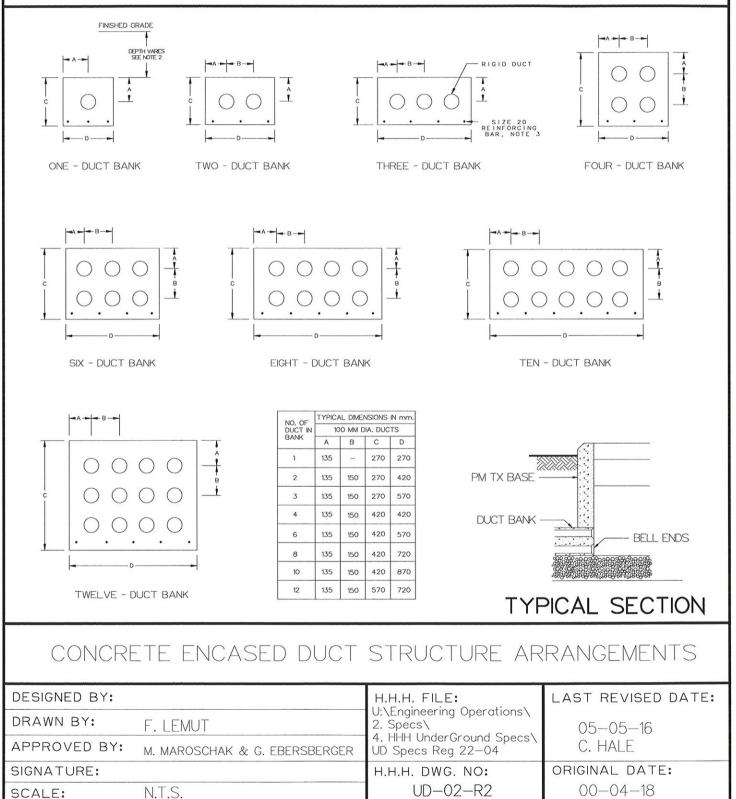
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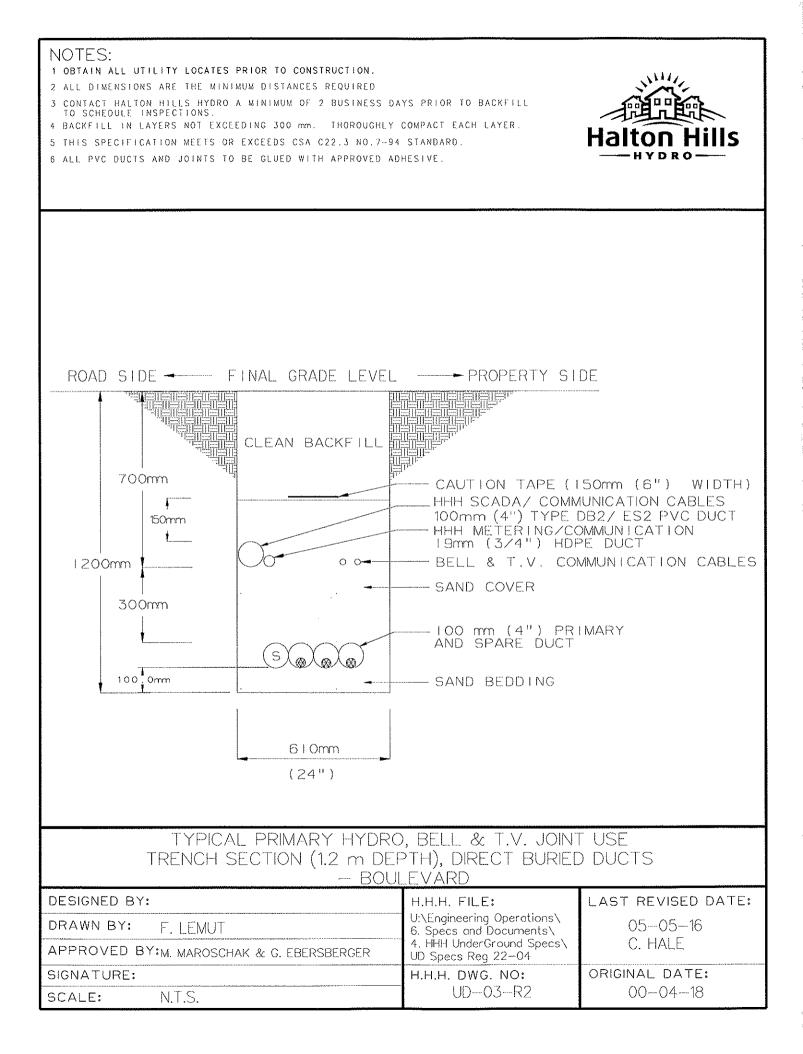


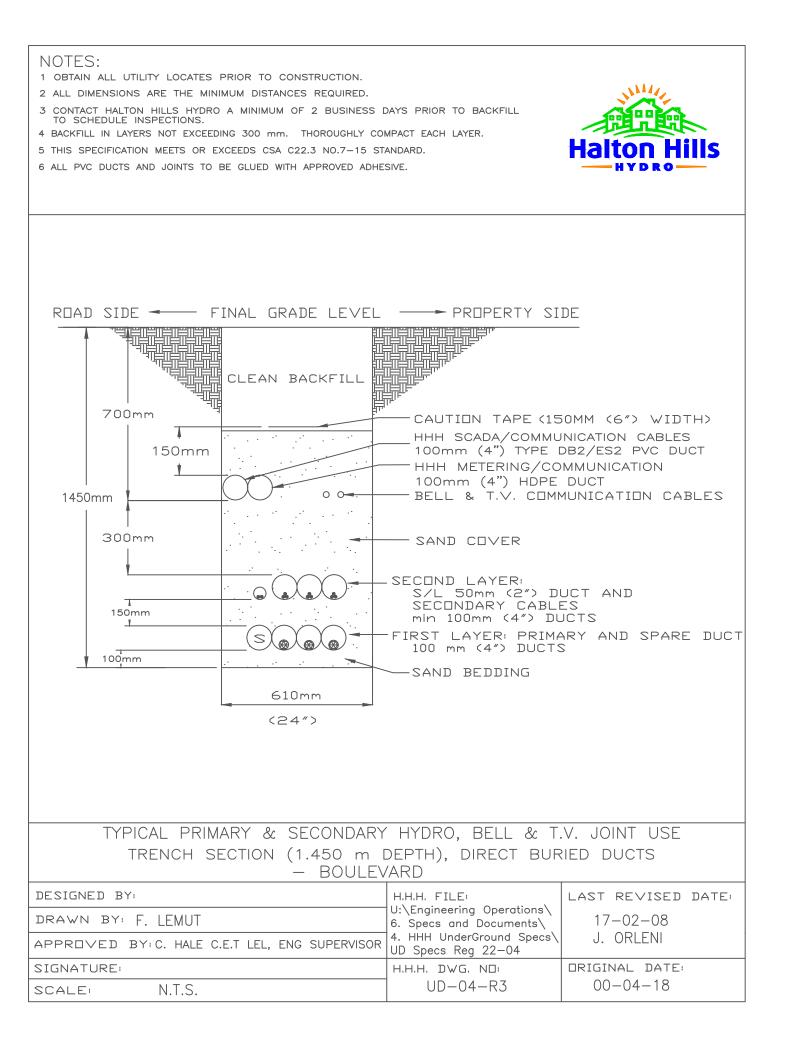


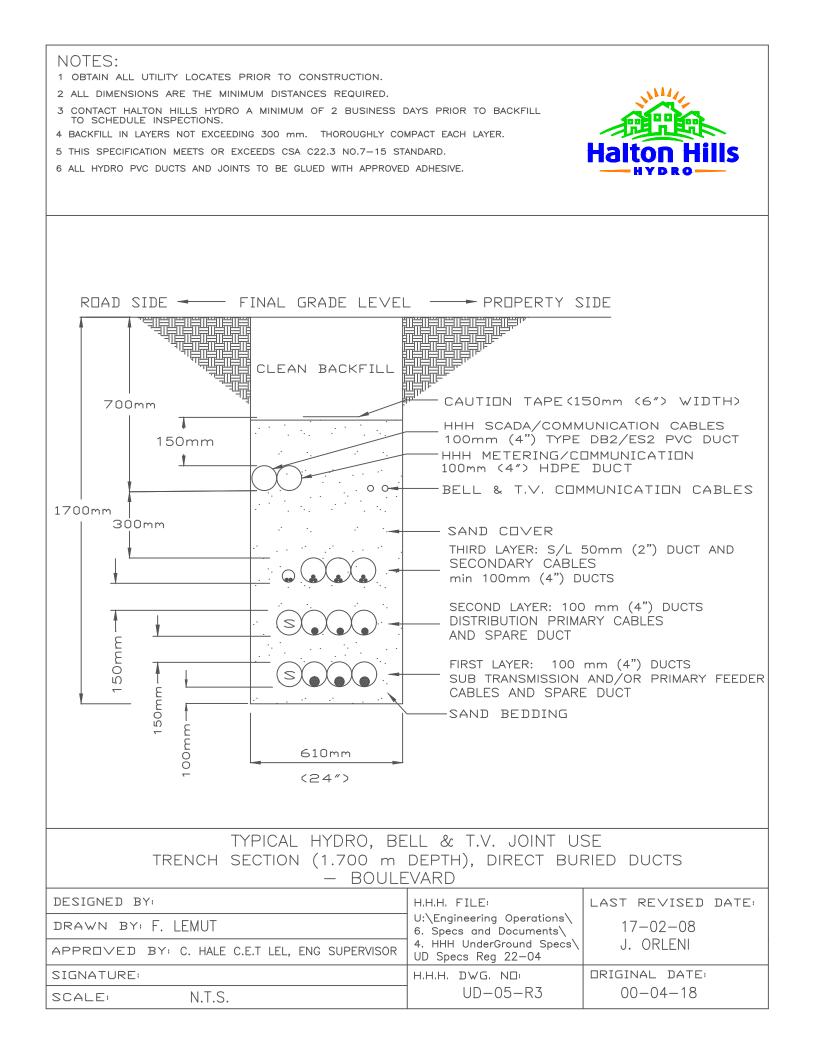
- 2 THE TOP ELEVATION OF THE CONCRETE ENCASEMENT SHALL BE A DEPTH OF 1.0m. IN ROCK OR HIGH WATER TABLE AREAS, THE TOP OF THE DUCT BANK MAY BE PLACED AT SUBGRADE ELEVATION OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- 3 THE REINFORCING BARS ALONG THE BOTTOM SIDES AND BOTTOM OF THE DUCT BANK SHALL BE CONCEALED WITH A MINIMUM OF 50mm OF CONCRETE COVER.

- 4 ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SHOWN.
- 5 THIS SPECIFICATION MEETS OR EXCEEDS CSA 22.3 NO.7-94 STANDARD.
- 6 ALL DUCTS TO BE PVC TYPE DB2/ES2 AS PER CSA-C22.2 #211.1 STANDARD.
- 7 ALL PVC DUCTS AND JOINTS TO BE GLUED WITH APPROVED ADHESIVE.





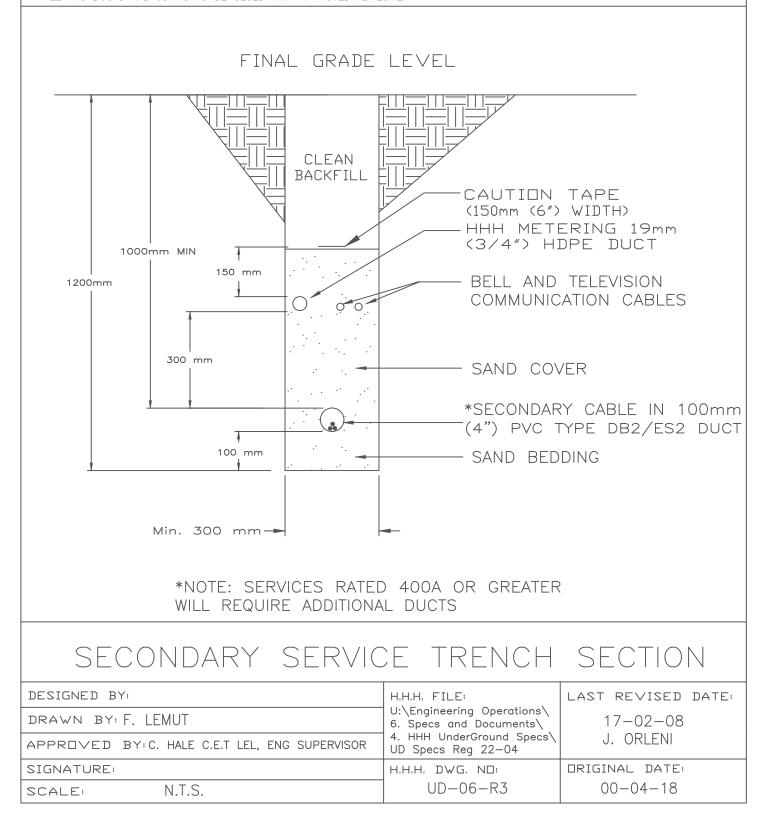




- 1 OBTAIN ALL UTILITY LOCATES PRIOR TO CONSTRUCTION.
- 2 ALL DIMENSIONS ARE THE MINIMUM REQUIRED DISTANCES.
- 3 CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DAYS PRIOR TO BACKFILL TO SCHEDULE INSPECTIONS.
- 4 BACKFILL IN LAYERS NOT EXCEEDING 300 mm. THOROUGHLY COMPACT EACH LAYER.
- 5 THIS SPECIFICATION MEETS OR EXCEEDS CSA-C22.3 NO.7-15 STANDARD.



6 HHH METERING/COMMUNICATION 100mm (4") HDPE POLY DUCT SHALL BE INSTALLED AND TERMINATED AT EACH METER BASE AND TIE WRAPPED TO THE INCOMING RIGID METER BASE DUCT. THE OTHER END SHALL BE TERMINATED AND BURIED AT THE COMMUNICATION LEVEL IN CLOSE PROXIMITY TO THE RELEVANT TRANSFORMER. THE DUCT SHALL BE SEALED WITH APPROPRIATE TAPERED POLY PLUG OR END CAP ON BOTH ENDS. PULLING ROPE 4.75 mm (3/16") SHALL BE INSTALLED IN THIS DUCT. SEE HHH DUCT INSTALLATION SPECIFICATION FOR MORE DETAILS.
7 ALL PVC DUCTS AND JOINTS TO BE GLUED WITH APPROVED ADHESIVE.



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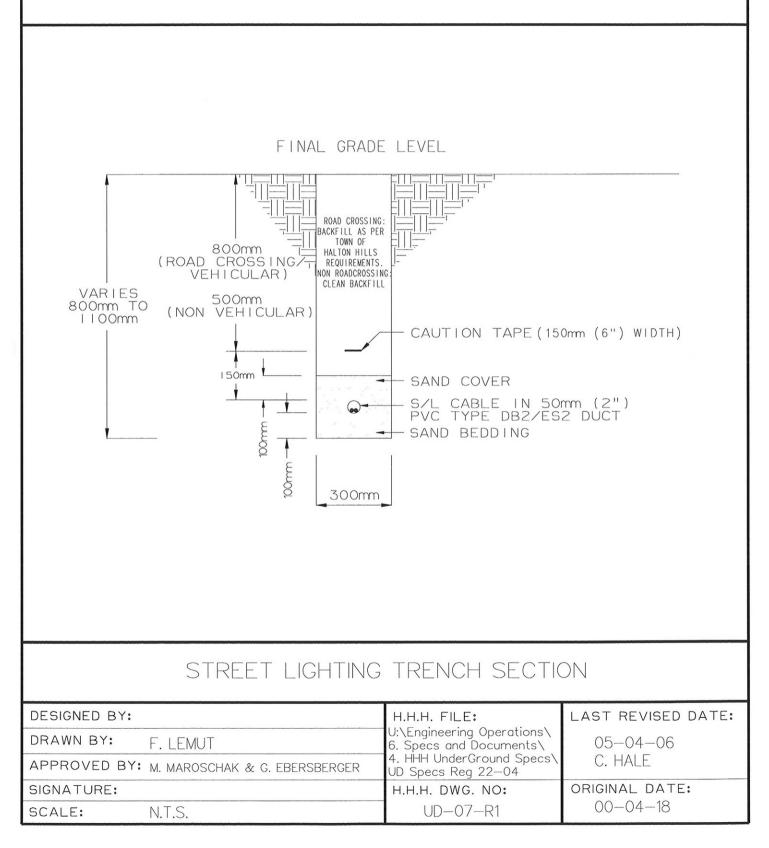
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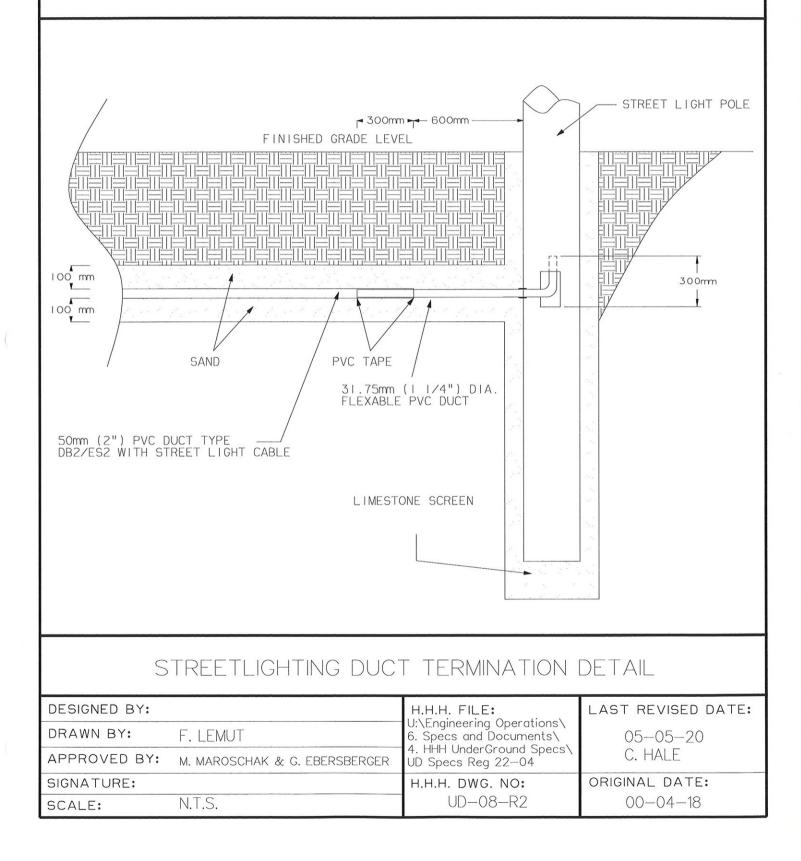
- 5 THIS SPECIFICATION MEETS OR EXCEEDS CSA C22.3 NO.7-94 STANDARD.
- 6 FOR MORE DETAILS SEE HALTON HILLS HYDRO STANDARD DWG. UD-08.

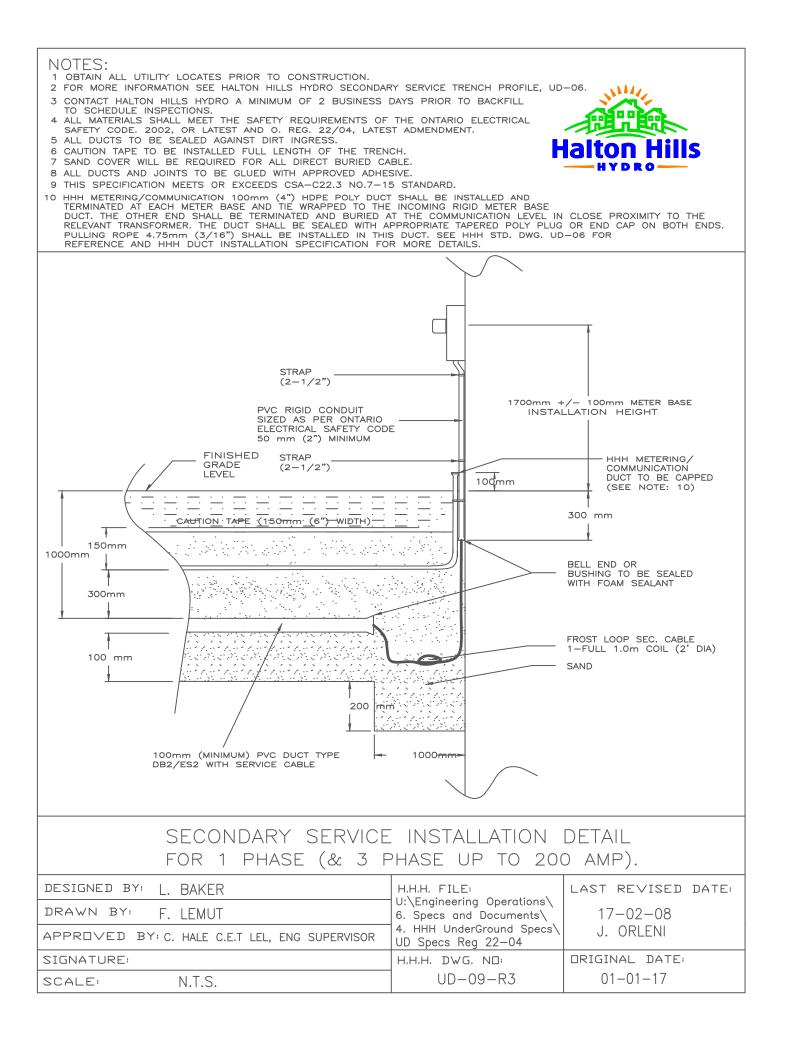
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- 4 BACKFILL IN LAYERS NOT EXCEEDING 300 mm. THOROUGHLY COMPACT EACH LAYER.
- 5 THIS SPECIFICATION MEETS OR EXCEEDS CSA C22.3 No. 7-94 STANDARD.
- 6 FOR FURTHER DETAILS SEE HALTON HILLS HYDRO STANDARD DWG. UD-07.
- 7 ALL PVC DUCTS AND JOINTS TO BE GLUED WITH APPROVED ADHESIVE.





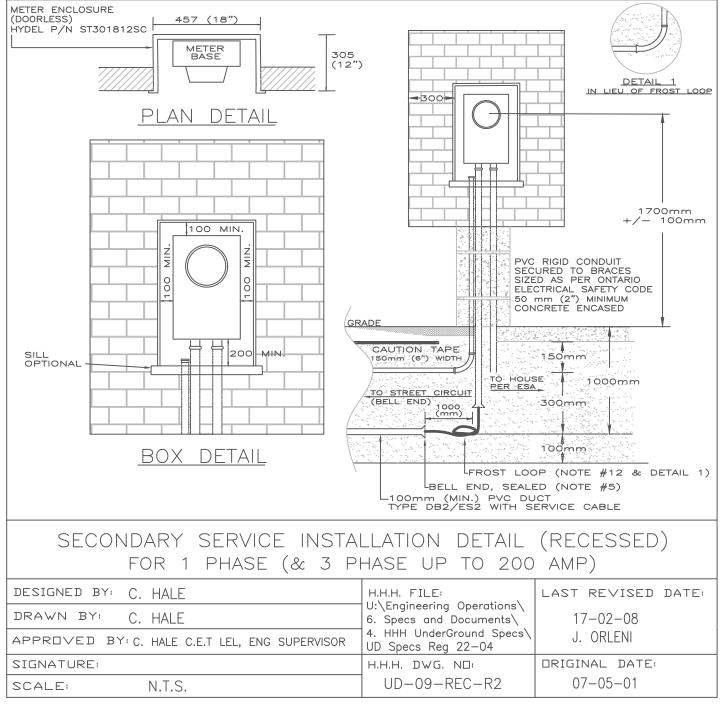
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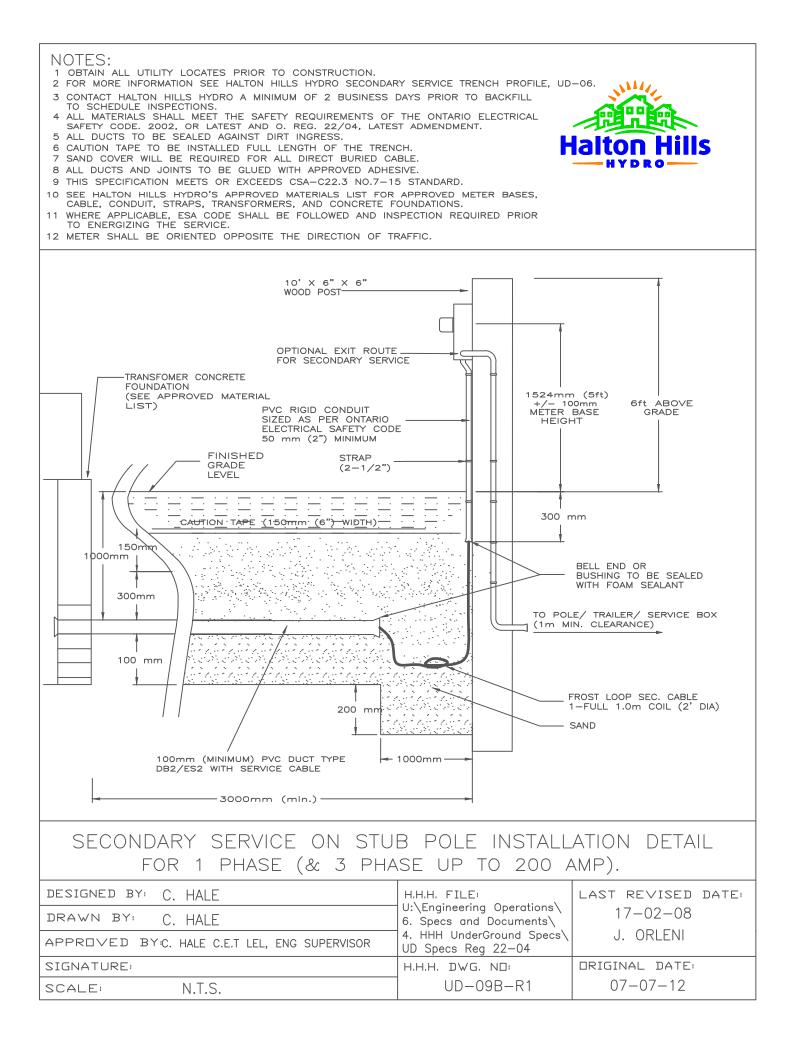
- 1 OBTAIN ALL UTILITY LOCATES PRIOR TO CONSTRUCTION.
- 2 FOR MORE INFORMATION SEE HALTON HILLS HYDRO SECONDARY SERVICE TRENCH PROFILE, UD-06. 3 CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DAYS PRIOR TO BACKFILL

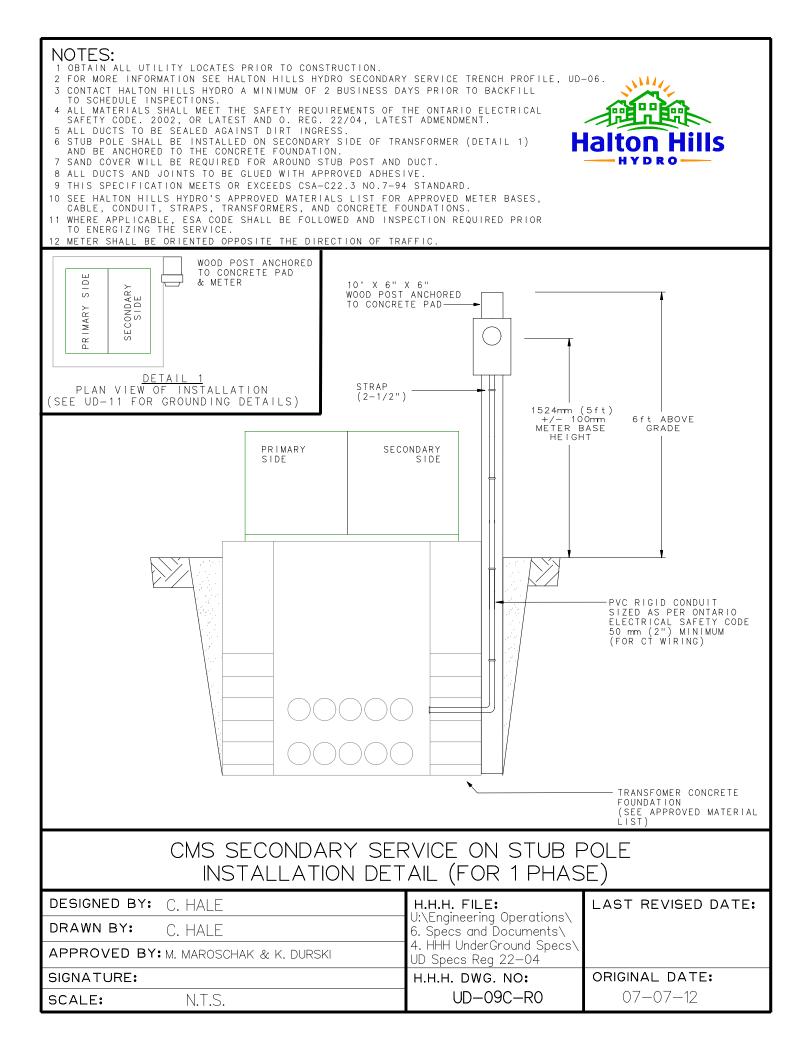
- 3 CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DATS PRIOR TO BACKFILL TO SCHEDULE INSPECTIONS.
 4 ALL MATERIALS SHALL MEET THE SAFETY REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODE. 2002, OR LATEST AND O. REG. 22/04, LATEST AMENDMENT.
 5 ALL DUCTS TO BE SEALED AGAINST DIRT INGRESS WITH ELECTRICALLY INSULATED FOAM. 6 CAUTION TAPE TO BE INSTALLED FULL LENGTH OF THE TRENCH.

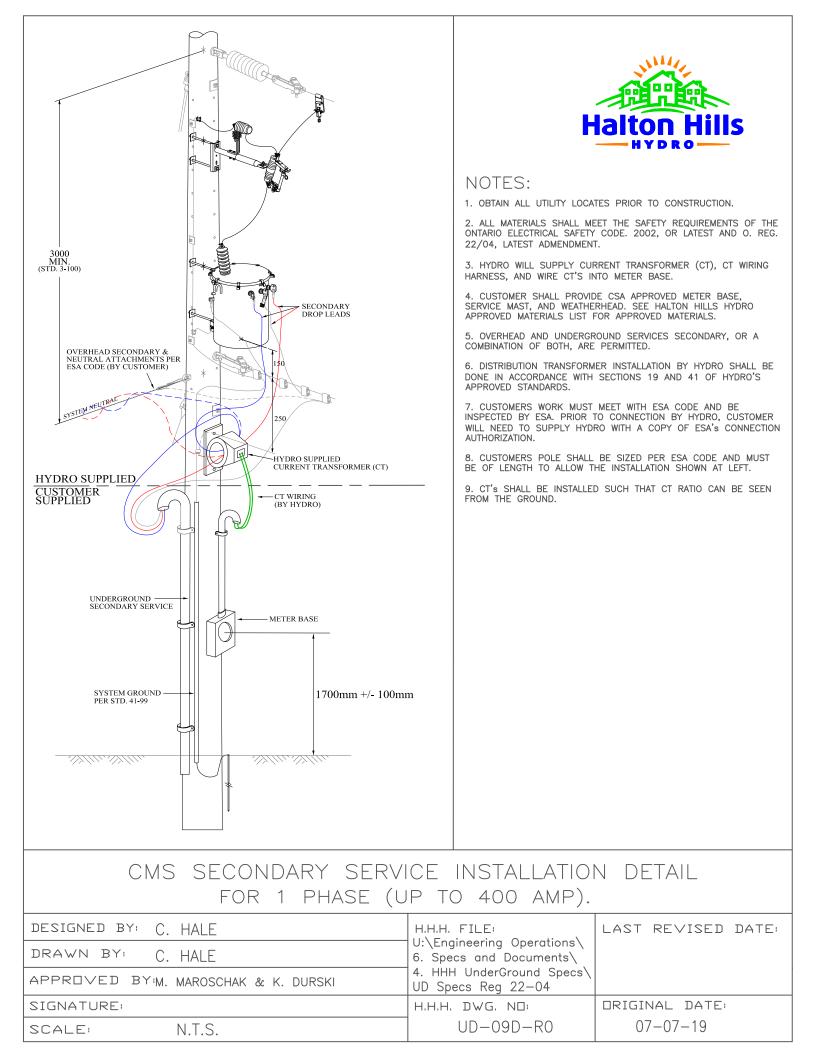


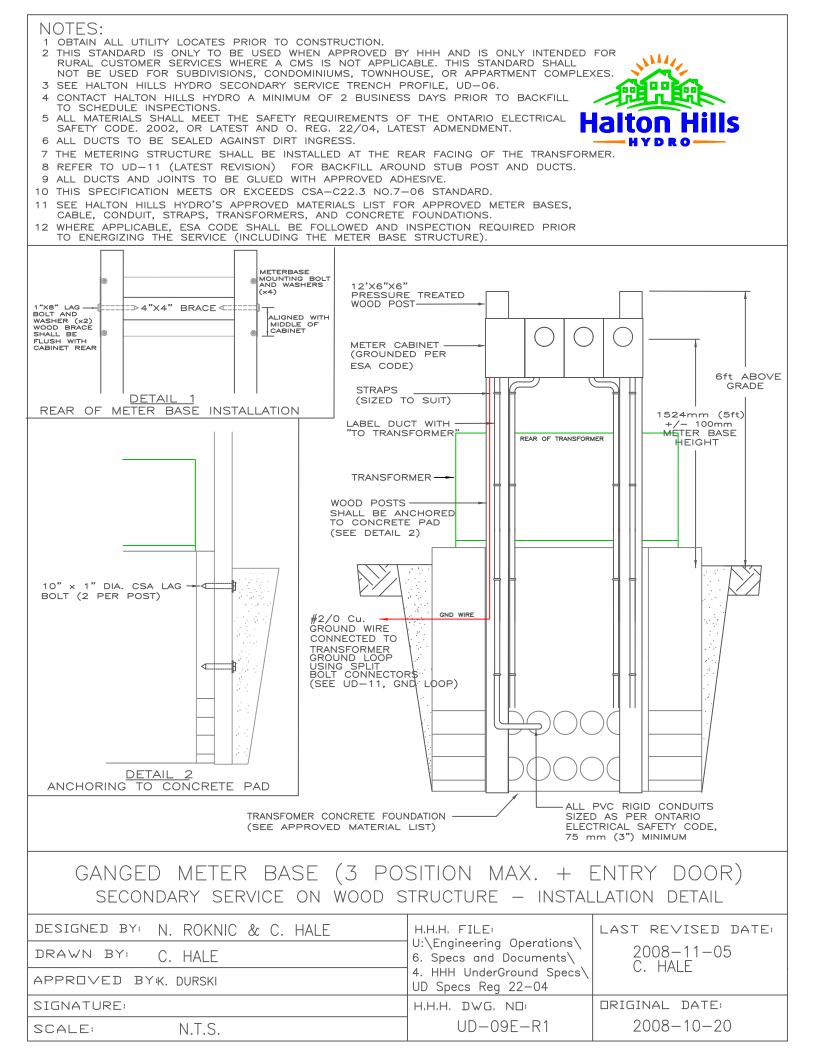
- SAND COVER WILL BE REQUIRED FOR ALL DIRECT BURIED DUCTS PER UD-06. DUCTS SHALL BE CONCRETE ENCASED UNDER VEHICLE TRAVELED SURFACES PER UD-02. 8 ALL DUCTS AND JOINTS TO BE GLUED WITH APPROVED ADHESIVE.
- 9 THIS SPECIFICATION MEETS OR EXCEEDS CSA-C22.3 NO.7-15 STANDARD.
- 9 THIS SPECIFICATION MEETS OR EXCEEDS CSA-C22.3 NO.7-15 STANDARD.
 10 HHH METERING/COMMUNICATION 100mm (4") HDPE POLY DUCT SHALL BE INSTALLED AND TERMINATED AT EACH METER BASE AND THE WRAPPED TO THE INCOMING RIGID METER BASE DUCT. THE OTHER END SHALL BE TERMINATED AND BURIED AT THE COMMUNICATION LEVEL IN CLOSE PROXIMITY TO THE RELEVANT TRANSFORMER. THE DUCT SHALL BE SEALED WITH APPROPRIATE TAPERED POLY PLUG OR END CAP ON BOTH ENDS. PULLING ROPE 4.75mm (3/16") SHALL BE INSTALLED IN THIS DUCT. SEE HHH STD. DWG. UD-06 FOR REFERENCE AND HHH DUCT INSTALLATION SPECIFICATION FOR MORE DETAILS.
- 11 METER CABINET SHALL BE ELECTRICAL BONDED/ GROUNDED PER ESA CODE. METER CABINET SHALL BE DOORLESS AND SHALL
- HAVE A WOOD BACKPANEL FOR MOUNTING METER BASE. CABINET OPENING SHALL REMAIN UNOBSTRUCTED. 12 FROST LOOP SHALL BE INSTALLED BELOW METER BASE AND SHALL NOT BE CONCRETE ENCASED. IF A FROST LOOP IS NOT POSSIBLE, A CSA 36" RADIUS BENDED CONDUIT PER DETAIL 1 MAY BE USED WITH HHH'S APPROVAL.

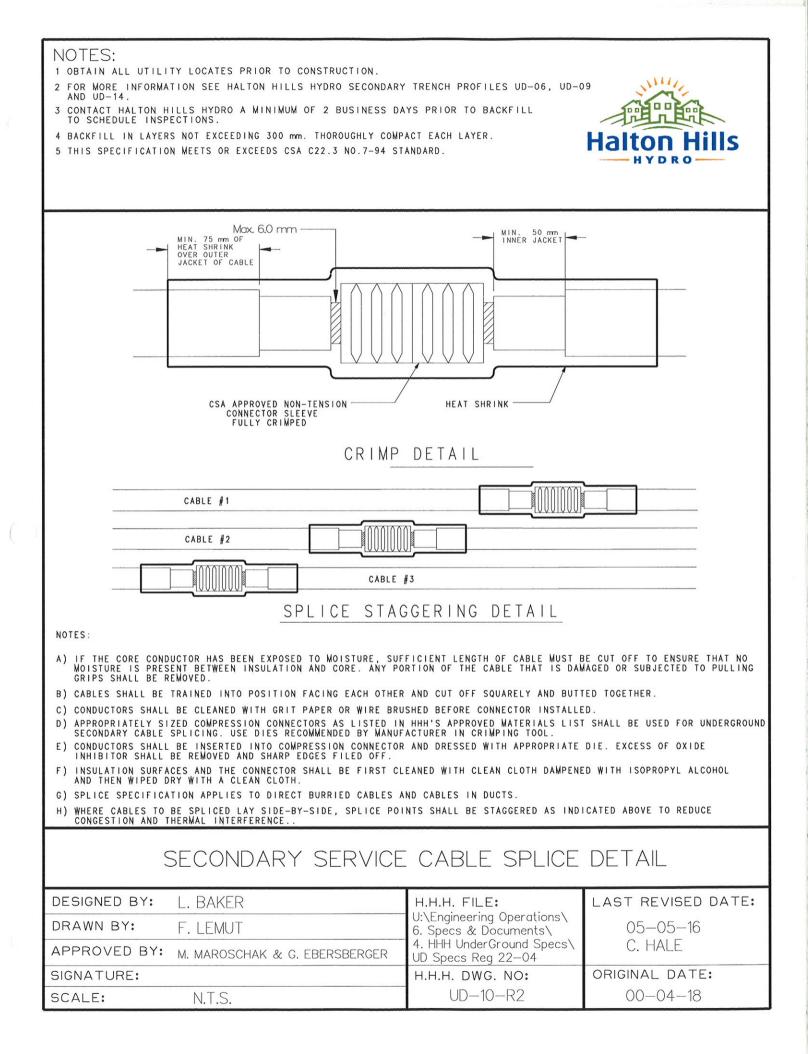








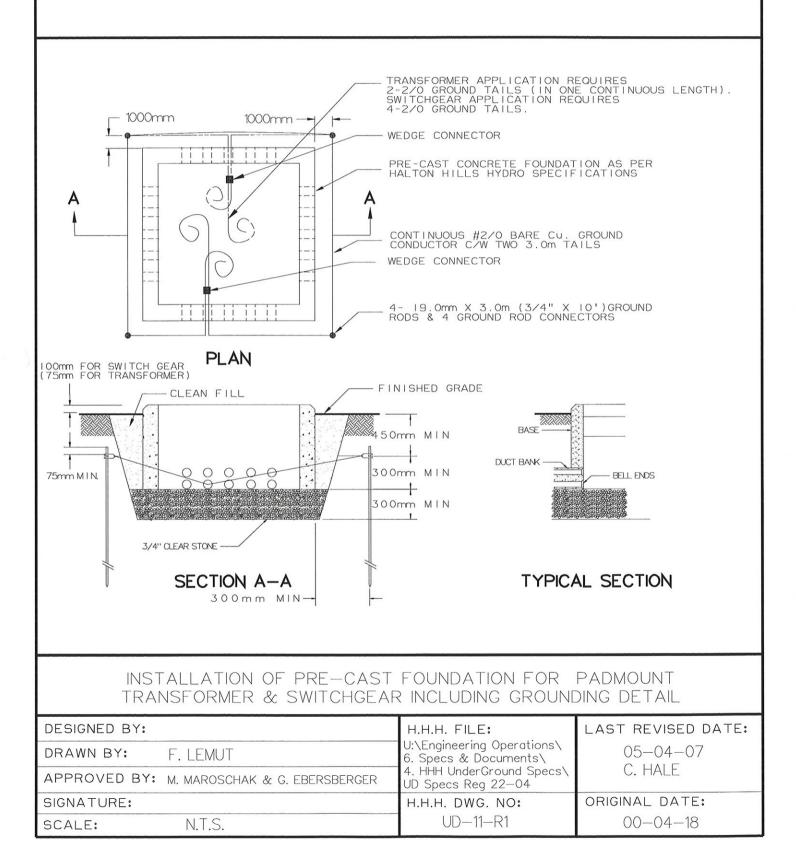


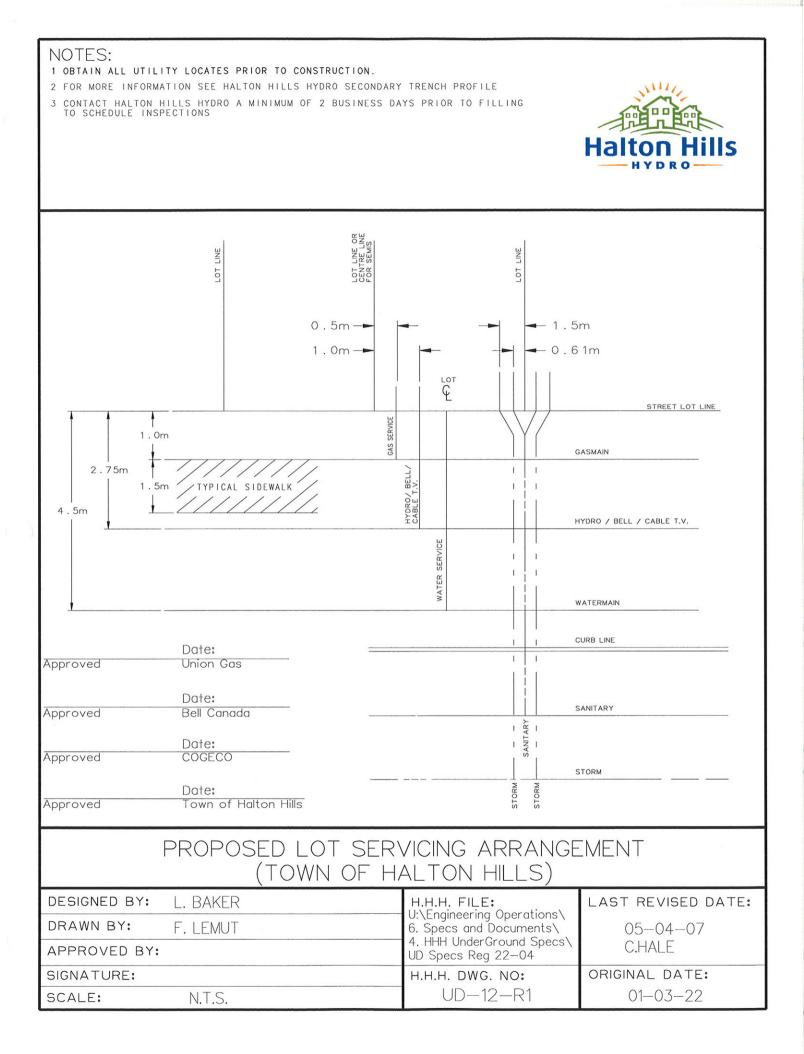


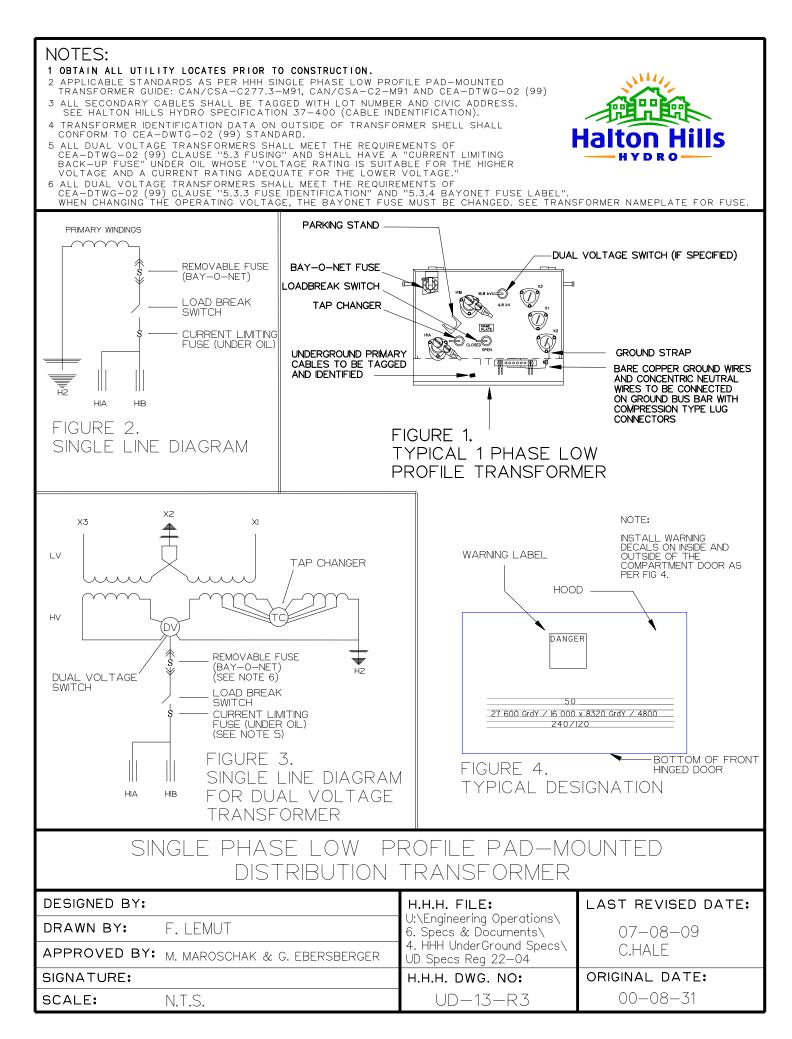
- 1 OBTAIN ALL UTILITY LOCATES PRIOR TO CONSTRUCTION.
- 2 COIL 3.0m OF EACH GROUND CONDUCTOR TAIL INSIDE FOUNDATION FOR CONNECTION TO TRANSFORMER/ SWITCHGEAR.
- 3 CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DAYS PRIOR TO BACKFILL TO SCHEDULE INSPECTIONS
- 4 BACKFILL IN LAYERS NOT EXCEEDING 300 mm. THOROUGHLY COMPACT EACH LAYER.
- 5 THIS SPECIFICATION MEETS OR EXCEEDS CSA C22.3 No.7-94 STANDARD.

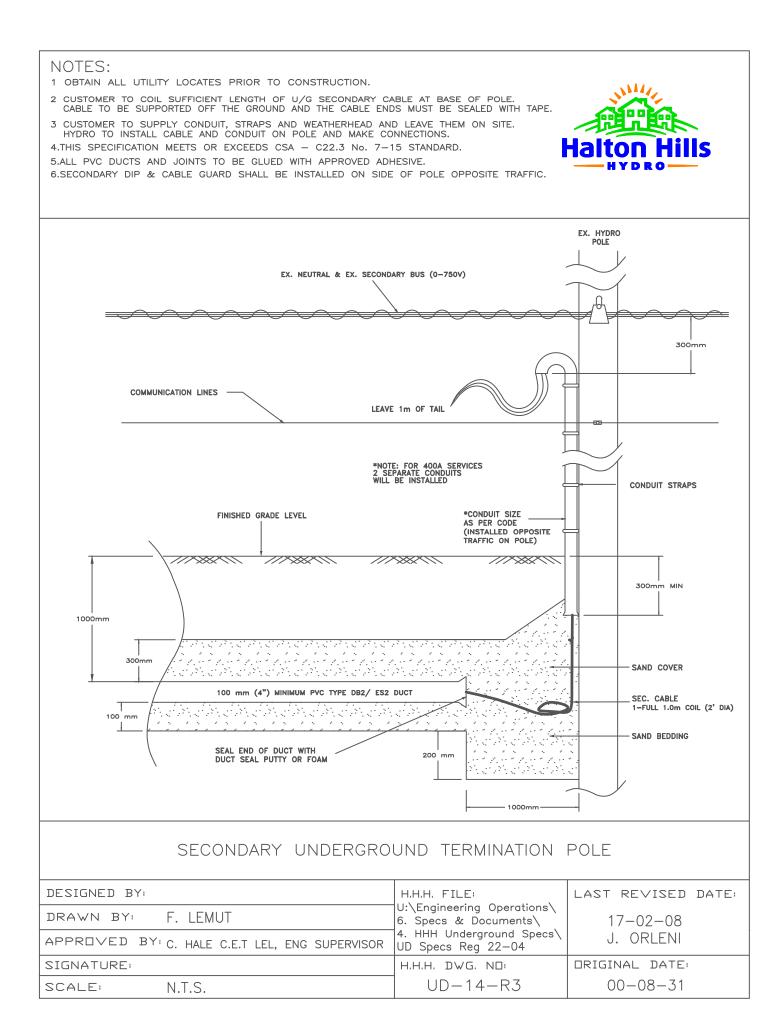


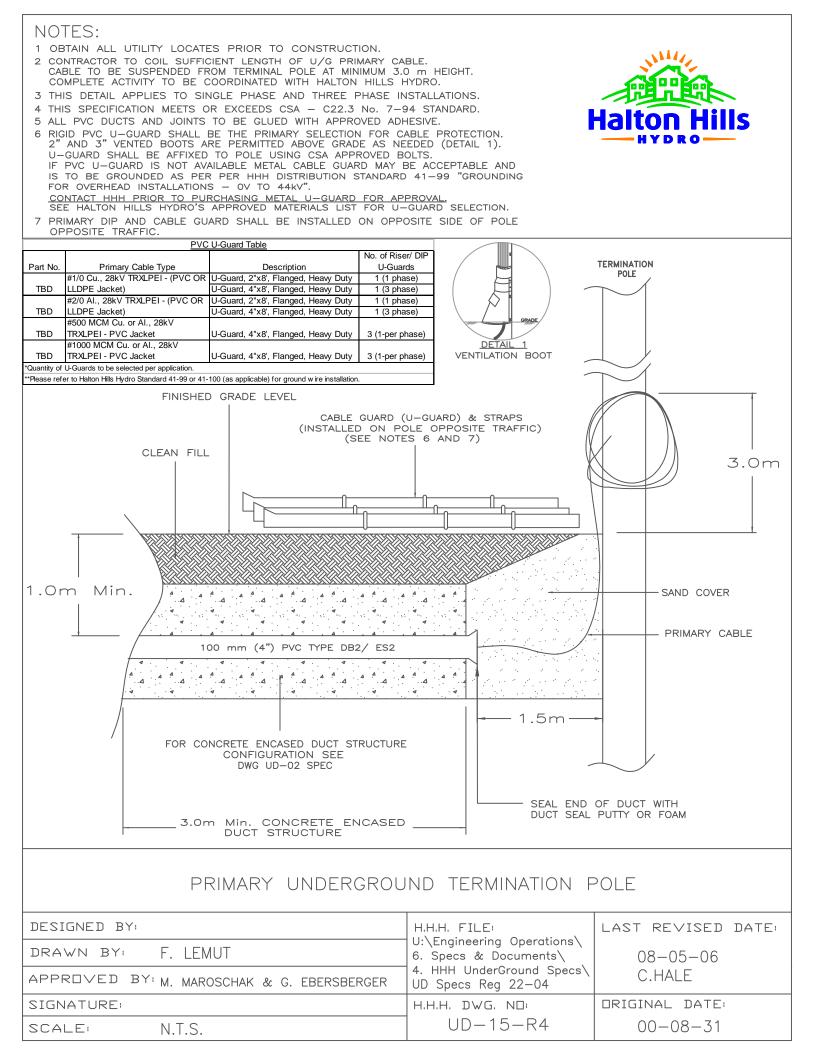
6.REFER TO HHH "WATERIAL SPECIFICATIONS" FOR CONCRETE FOUNDATION CATALOG NUMBER.

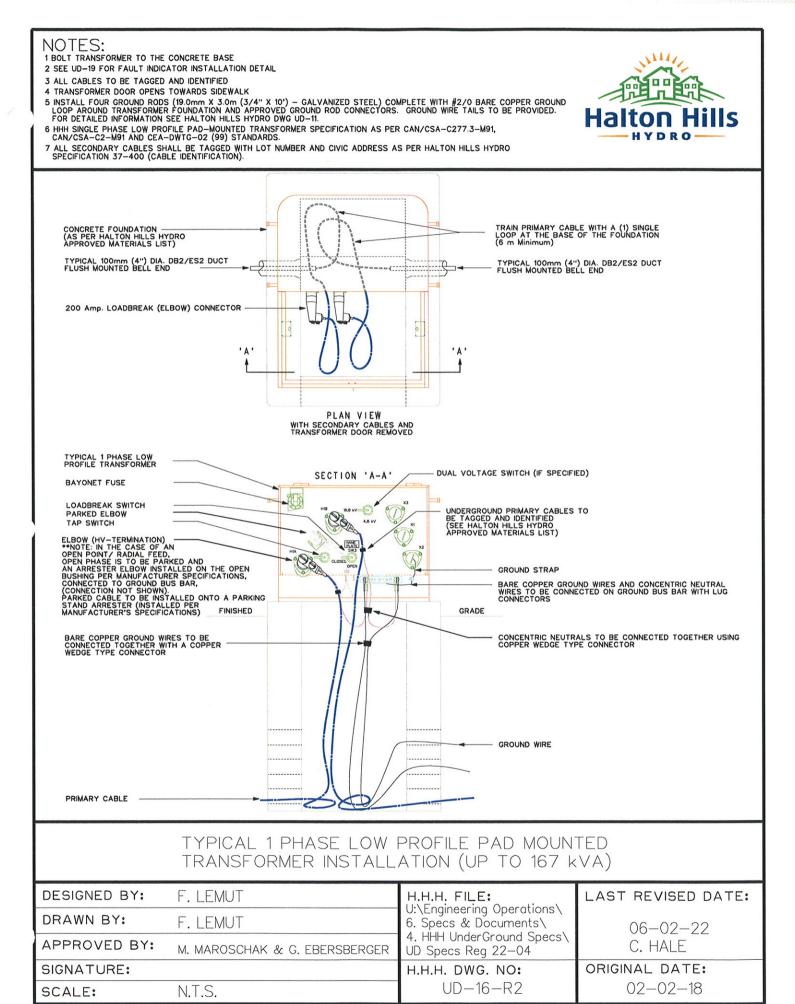


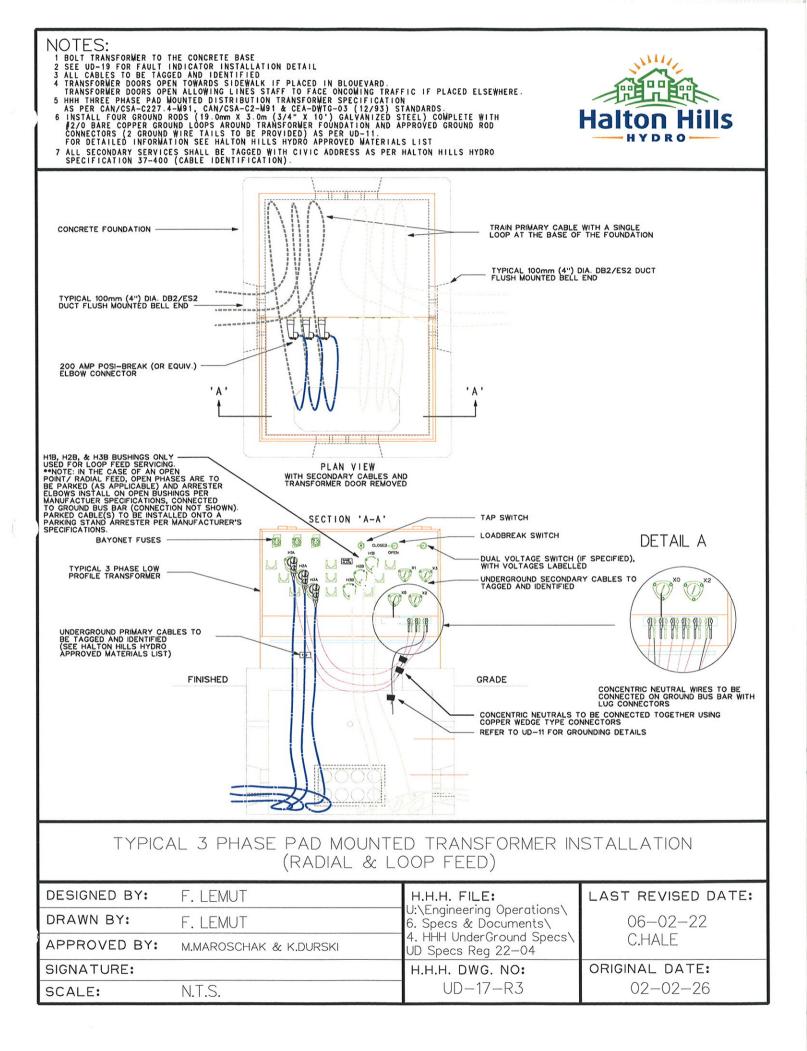


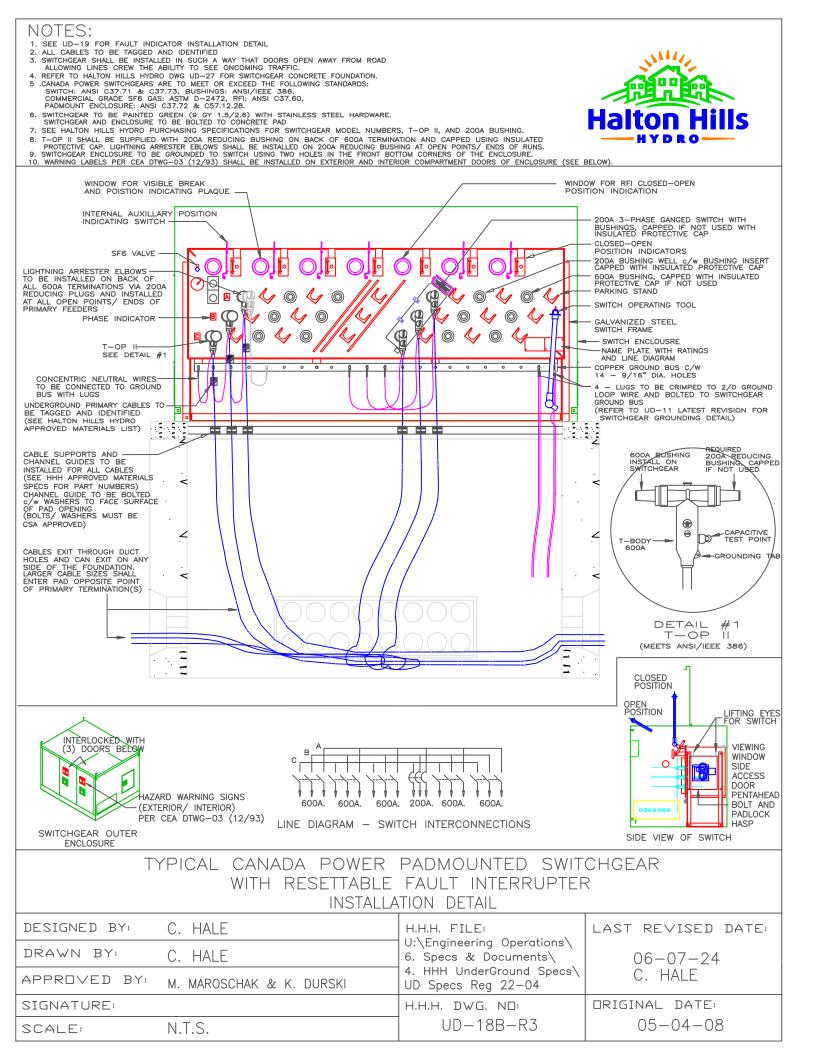


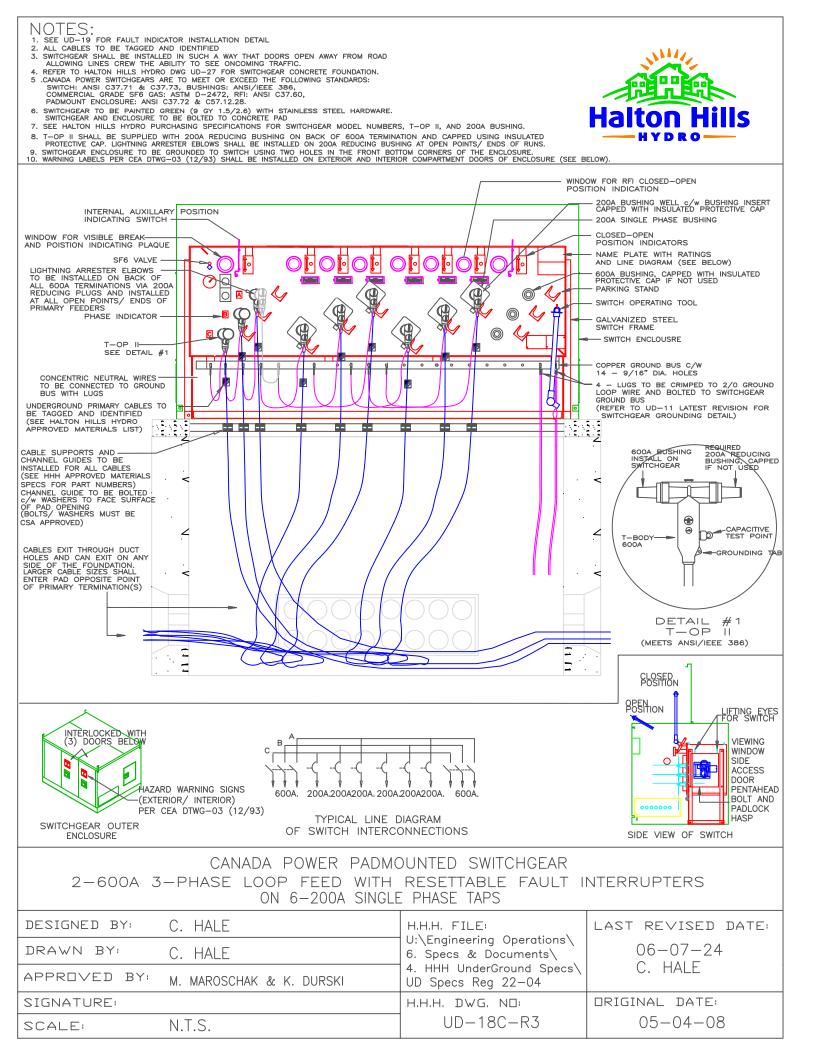


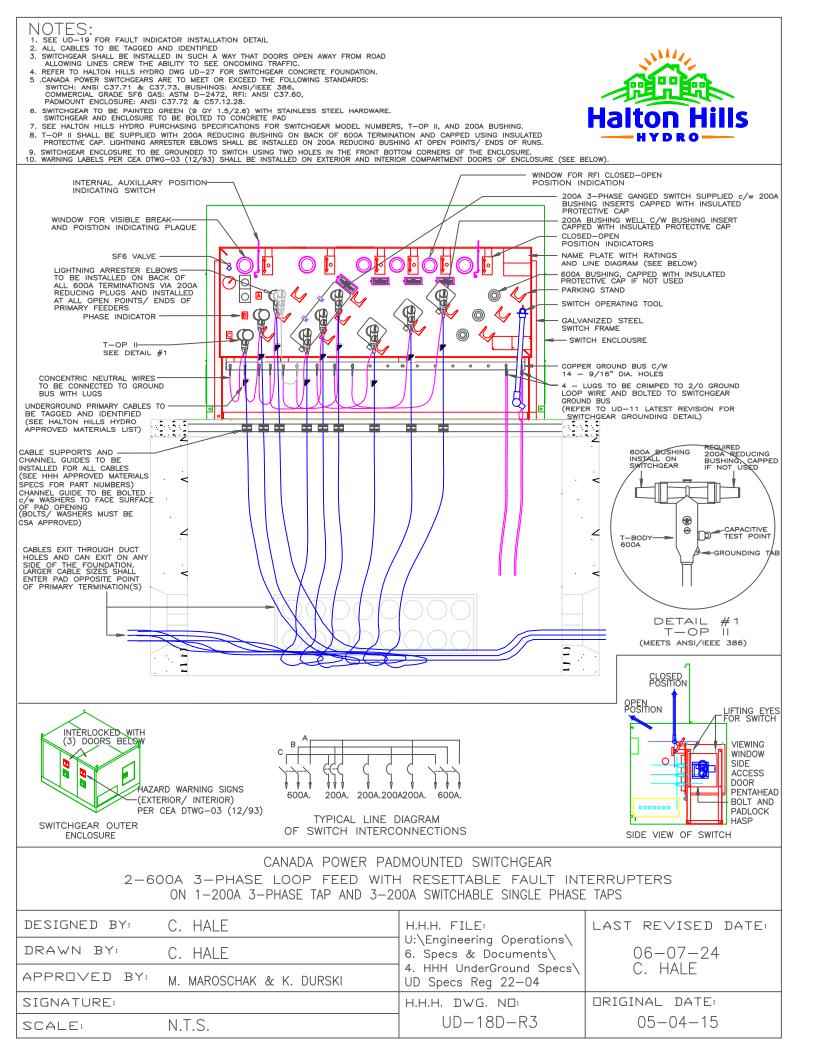










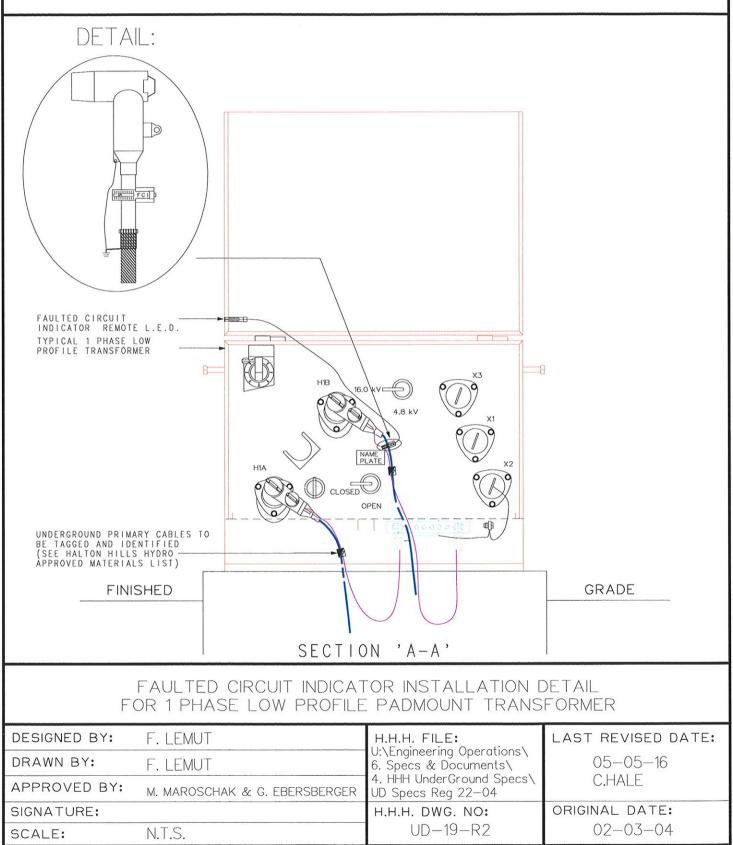


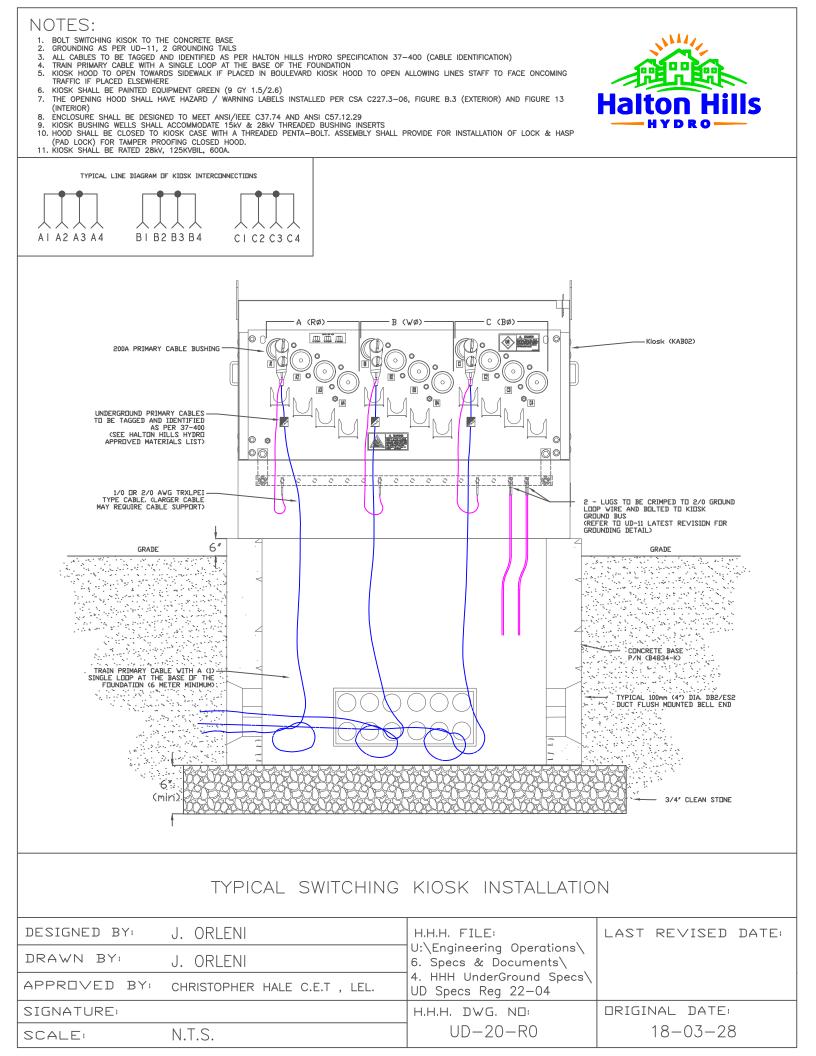


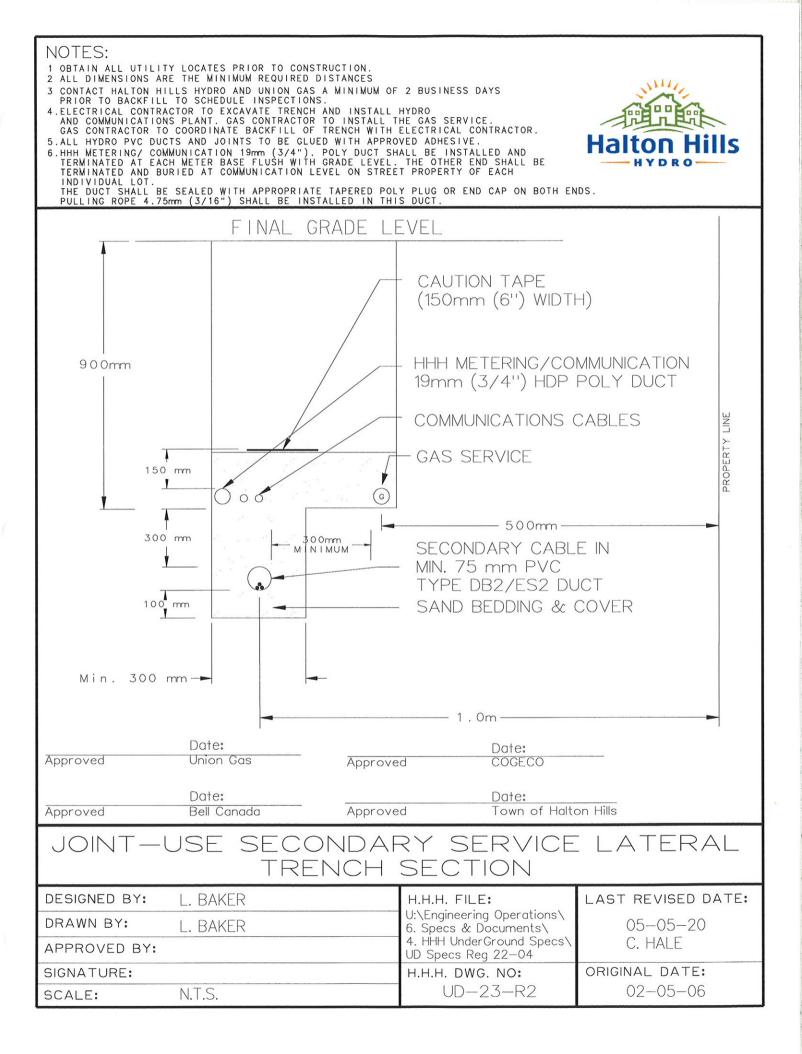


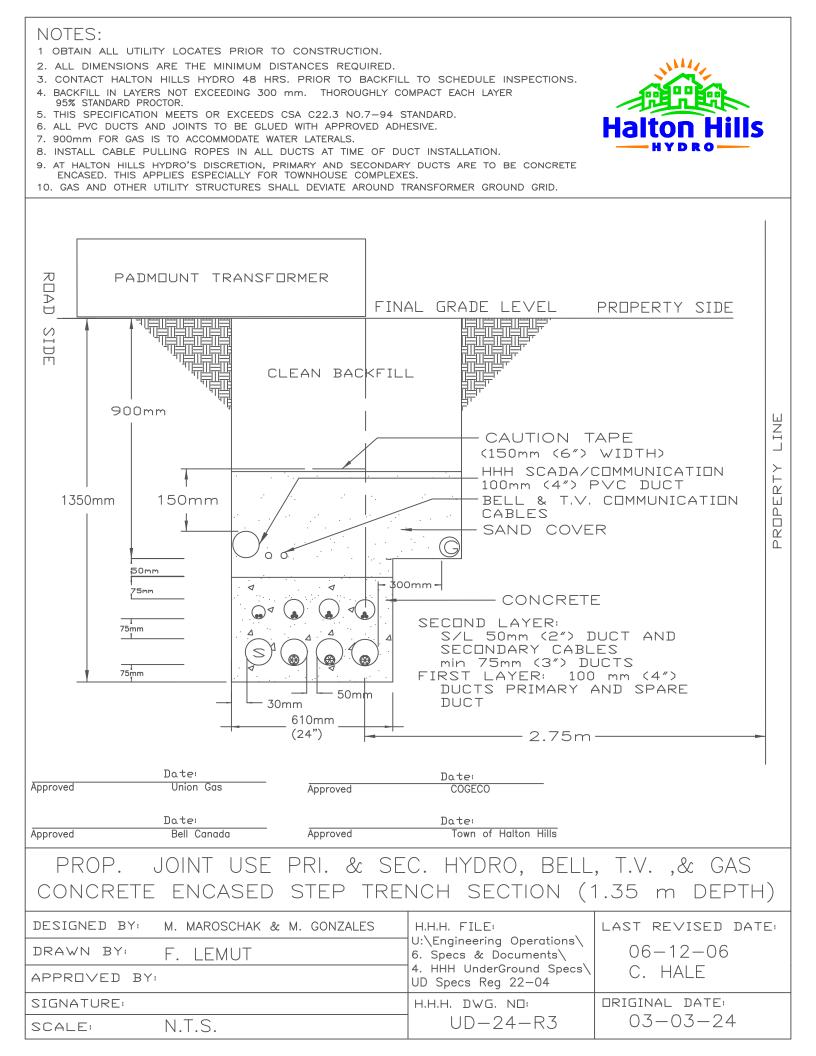
- ALL DIMENSIONS ARE THE MINIMUM DISTANCES REQUIRED.
 FAULT INDICATOR TO BE MOUNTED ON THE CABLE CONNECTED TO THE H1B BUSHING. IF H1B BUSING IN AN OPEN POINT, MOUNT FAULT INDICATOR ON H1A BUSHING.
 FAULT INDICATOR CLAMPS AROUND PRIMARY ELBOW AND ABOVE CONCENTRIC NEUTAL WIRES. HARDWIRE TO REMOTE L.E.D. IN SIDE OF DOOR FACING TRAFFIC. FIBER OPTIC WIRE CONNECTING FCI TO L.E.D. SHALL BE TRAINED SUCH THAT IT WILL NOT COME IN CONTACT WITH X1 OR X3 SECONDARY TERMINALS.
 THE CONCENTRIC NEUTRAL WIRES SHALL BE LOOPED BACK FROM THE FAULTED CIRCUIT INDICATOR TO CANCEL OUT ANY STRAY OR CONCENTRIC NEUTRAL CURRENTS.

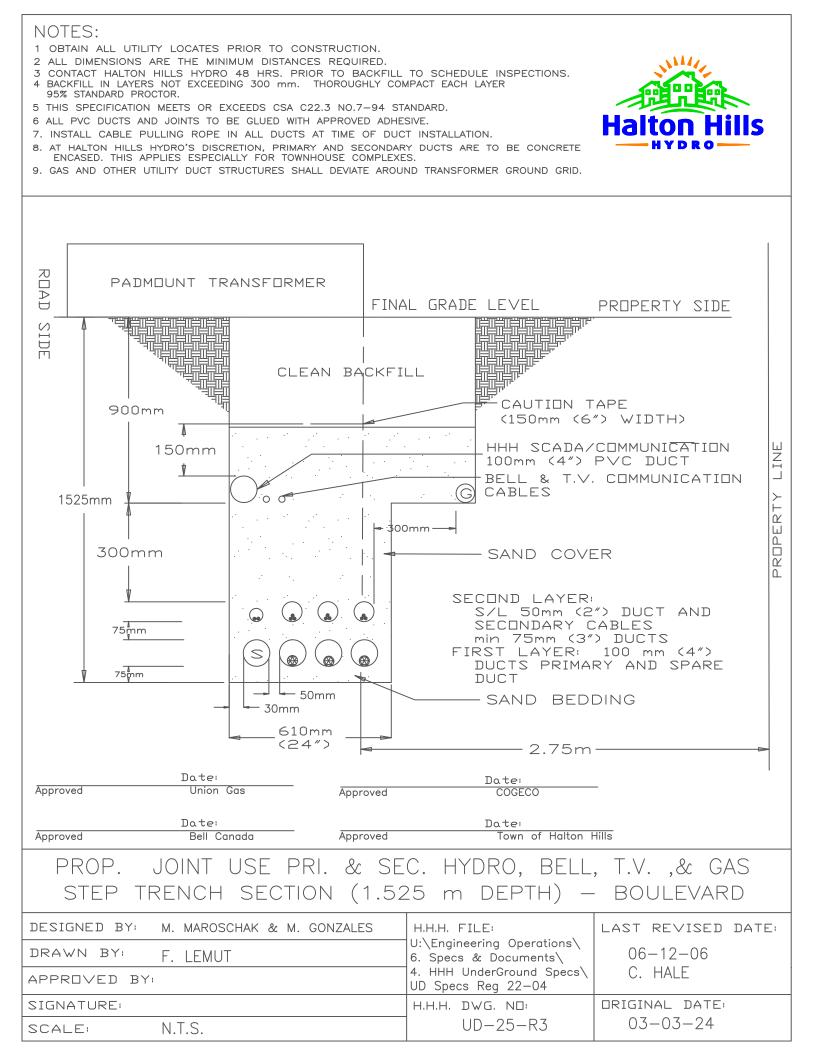


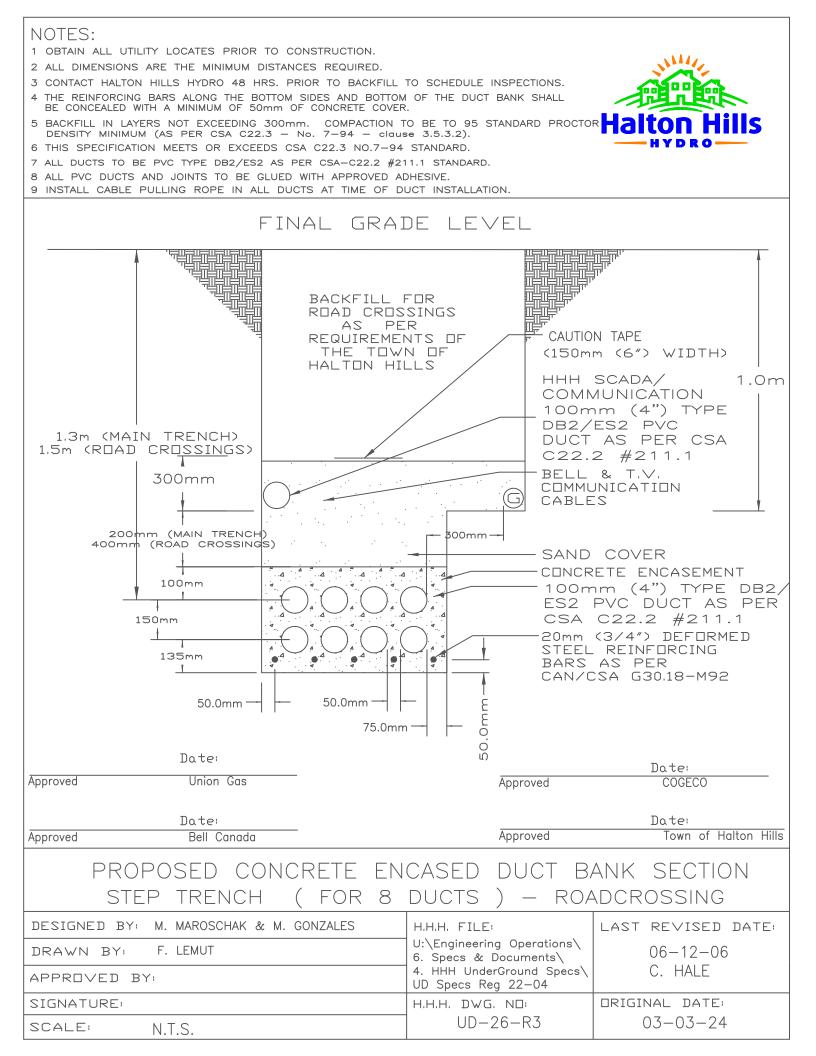


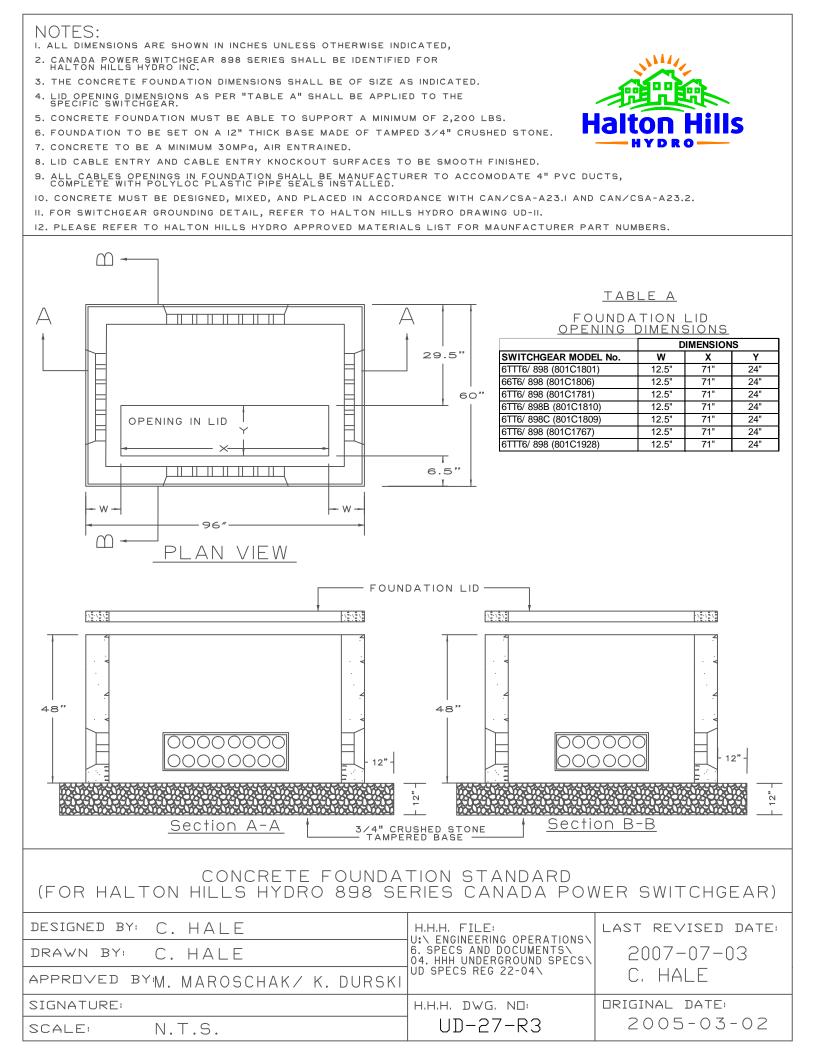


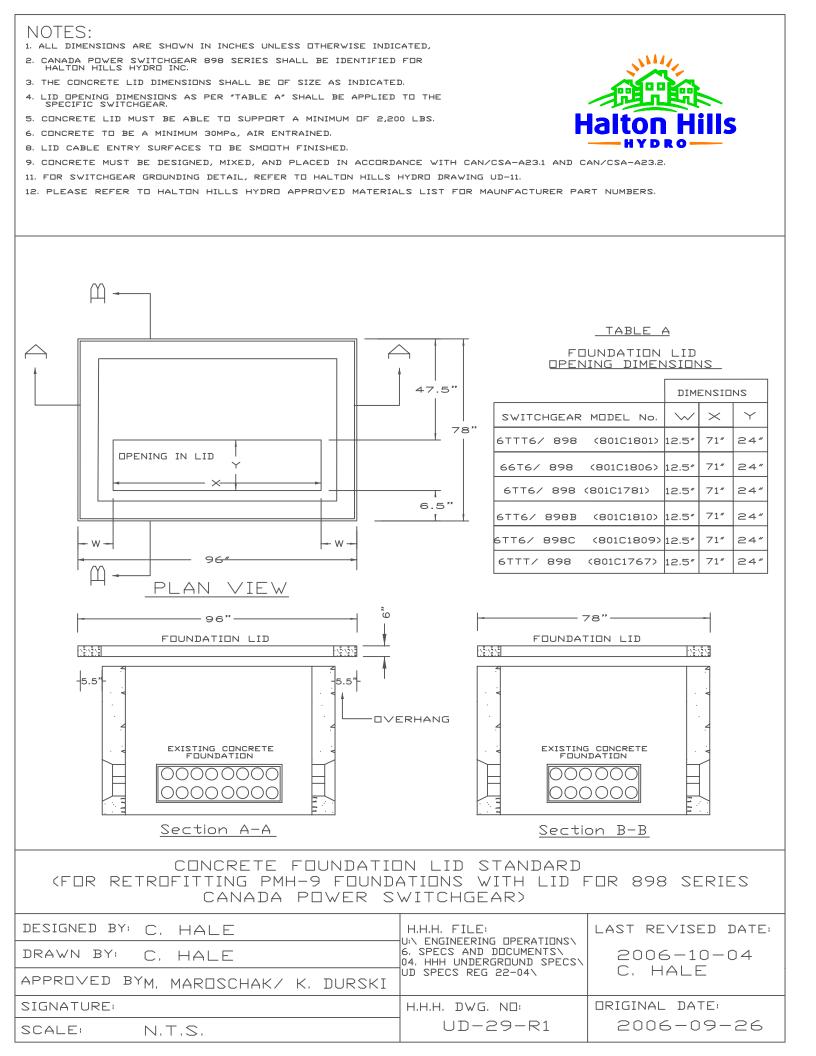








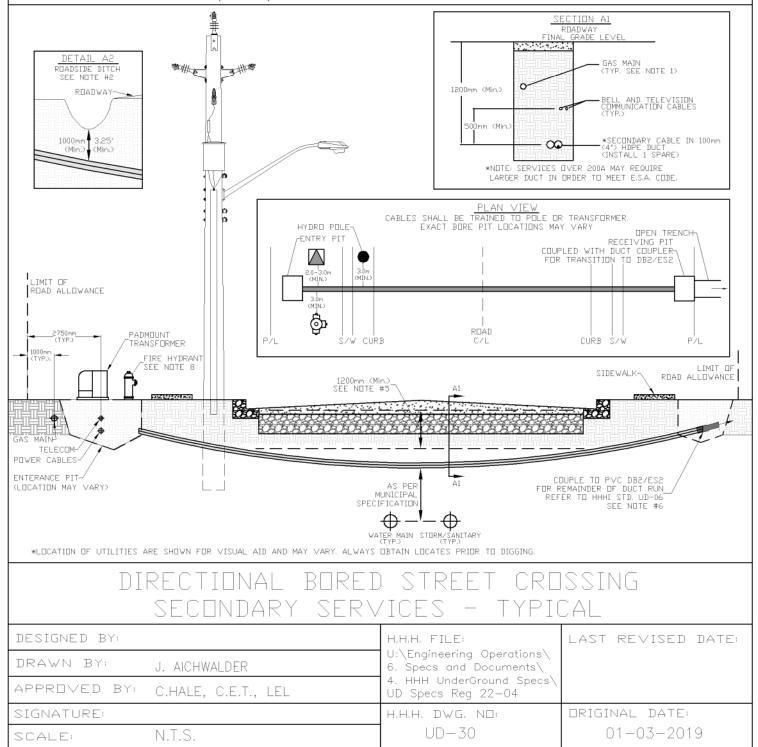




- OBTAIN ALL UTILITY LOCATES PRIOR TO CONSTRUCTION. APPROVAL OF THE RESPECTIVE AUTHORITIES MUST BE OBTAINED FOR DIRECTIONAL BORED STREET CROSSING AND ALL MATERIAL USED THERE IN. MAINTAIN A MINIMUM 500mm HORIZONTAL AND 500mm VERTICAL DISTANCE FROM OTHER UTILITIES THROUGHOUT THE LENGTH OF BORE.
- 2. WHEN CROSSING IN RURAL AREA'S, MINIMUM 1000mm DEPTH MUST BE MAINTAINED FROM BOTTOM OF DITCH GRADE. SEE DETAIL A2.
- CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DAYS PRIOR TO BACKFILL TO SCHEDULE INSPECTIONS AT ENTRANCE LOCATIONS.
 ALL ROAD CROSSINGS SHALL BE PERPENDICULAR IN NATURE WHEN CROSSING THE CURB LINE.
- 4. ALE ROAD CONSINGES THAT BE ADDRESS AND THAT AND EXIT AREAS PLACED IN APPROPRIATE LOCATIONS AS SHOWN ON DRAWINGS AND SHALL BE DRILL PATH SHALL BE ACCURATELY SURVEYED WITH ENTRY AND EXIT AREAS PLACED IN APPROPRIATE LOCATIONS AS SHOWN ON DRAWINGS AND SHALL BE DRILLED SO AS NOT TO EXCEED THE MANUFACTURERS BENDING LIMITATIONS OF THE PIPE. DRILL PATH TO BE AS STRAIGHT AS POSSIBLE AT ALL TIMES. DEPTH OF CROSSING MAY BE VARIED DEPENDING ON LOCATION OF OTHER UNDERGROUND UTILITIES AND/OR STRUCTURES. DEPTH OF DUCT AS PER ONTARIO PROVINCIAL STANDARDS SPECIFICATION OPSS #450. MAINTAIN A MINIMUM 1200 mm VERTICAL DISTANCE FROM ROADWAY FINAL GRADE THROUGHOUT LENGTH OF BORE.



- ALL DUCTS BORED TO BE HIGH DENSITY POLYETHYLENE (HDPE) AS PER CSA-C22.2 #211.1 STANDARD. HDPE SHALL BE SDR (200 PSI) PRESSURE.
 A T EITHER SIDE OF ROAD CROSSING WHERE THE HDPE DUCT TERMINATES, PVC DUCT TYPE DB2/ES2 SHALL BE COUPLED TO THE HDPE DUCT. SEE HHHI STD. UD-06. HDPE DUCT SHALL NOT BE USED FOR THE ENTIRE LENGTH OF THE TRENCH.
- POR THE ENTINE LENGTH OF THE TRENCH. 8. MAINTAIN MINIMUM DISTANCES AROUND EXISTING UTILITIES. ACCESS TO HYDRANT AS PER OPSD 217.050 AND THE REGIONAL MUNICIPALITY OF HALTON BY-LAWS AND SPECIFICATIONS.
- FOLLOWING DRILLING OPERATIONS, THE CONTRACTOR SHALL DE-MOBILIZE EQUIPMENT AND RESTORE WORK-SITE TO PRE-CONSTRUCTION OR BETTER CONDITIONS.
- 10. FILL ANNULAR VOIDS USING GROUT (ONE PART OF PORTLAND CEMENT & 2 PARTS OF SAND). 11. OPEN BORE PITS SHALL HAVE SNOW FENCE ERECTED AROUND THE OUTER PERIMETER WHEN LEFT UNATTENDED.
- 11. OPEN BORE PTIS SHALL HAVE SNOW FENCE ERECTED AROUND THE OUTER PERIMETER WHE 12. THIS SPECIFICATION MEETS OR EXCEEDS CSA-C22.3 NO. 7-15 STANDARD.
- ALL DIRECTIONAL BORING WORKS TO CONFORM TO TOWN OF HALTON HILLS REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE TOWN PRIOR TO COMMENCEMENT OF WORK INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ENTRY AND EXIT PITS TO REMAIN OUTSIDE OF DRIVEWAYS/ENTERANCES, BACKFILL IN THE TOWNS BOULEVARD SHALL BE CLEAN NATIVE MATERIAL (FREE OF TOP SOIL) AND COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY, THE USE OF LEAN CONCRETE (U-FILL) IS NOT PERMITTED AS BACKFILL MATERIAL. ALL WORKS SHALL COMPLY WITH THE TOWN OF HALTON HILLS TREE BY-LAW 93-106 (AS AMENDED).



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- WHEN CROSSING IN RURAL AREA'S, MINIMUM 1000mm DEPTH MUST BE MAINTAINED FROM BOTTOM OF DITCH GRADE. SEE DETAIL A2. CONTACT HALTON HILLS HYDRO A MINIMUM OF 2 BUSINESS DAYS PRIOR TO BACKFILL TO SCHEDULE INSPECTIONS AT ENTRANCE LOCATIONS.
- 3.
- ALL ROAD CROSSINGS SHALL BE PERPENDICULAR IN NATURE WHEN CROSSING THE CURB LINE. THE DRILL PATH SHALL BE ACCURATELY SURVEYED WITH ENTRY AND EXIT AREAS PLACED IN APPROPRIATE LOCATIONS AS SHOWN ON DRAWINGS AND SHALL 5 BE DRILLED SO AS NOT TO EXCEED THE MANUFACTURERS BENDING LIMITATIONS OF THE PIPE, DRILL PATH TO BE AS STRAIGHT AS POSSIBLE AT ALL TIMES. DEPTH OF CROSSING MAY BE VARIED DEPENDING ON LOCATION OF OTHER UNDERGROUND UTILITIES AND/OR STRUCTURES. DEPTH OF DUCT AS PER ONTARIO PROVINCIAL STANDARDS SPECIFICATION OPSS #450. MAINTAIN A MINIMUM 1200 mm VERTICAL DISTANCE FROM ROADWAY FINAL GRADE THROUGHOUT LENGTH OF BORE.
 - ALL DUCTS BORED TO BE HIGH DENSITY POLYETHYLENE (HDPE) AS PER CSA-C22.2 #211.1 STANDARD. HDPE SHALL BE SDR (200 PSI) PRESSURE. AT EITHER SIDE OF ROAD CROSSING WHERE THE HDPE DUCT TERMINATES, PVC DUCT TYPE DB2/ES2 SHALL BE COUPLED TO THE HDPE DUCT. SEE HHHI STD. UD-06. HDPE DUCT SHALL NOT BE USED
- FOR THE ENTIRE LENGTH OF THE TRENCH. MAINTAIN MINIMUM DISTANCES AROUND EXISTING UTILITIES. ACCESS TO HYDRANT AS PER OPSD 217.050 AND THE REGIONAL MUNICIPALITY OF HALTON BY-LAWS AND SPECIFICATIONS.
- FOLLOWING DRILLING OPERATIONS, THE CONTRACTOR SHALL DE-MOBILIZE EQUIPMENT AND RESTORE WORK-SITE TO PRE-CONSTRUCTION OR BETTER CONDITIONS.
- 10. FILL ANNULAR VOIDS USING GROUT (ONE PART OF PORTLAND CEMENT & 2 PARTS OF SAND). 11. OPEN BORE PITS SHALL HAVE SNOW FENCE ERECTED AROUND THE OUTER PERIMETER WHEN LEFT UNATTENDED.
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