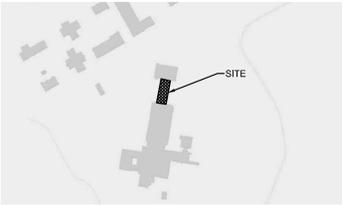
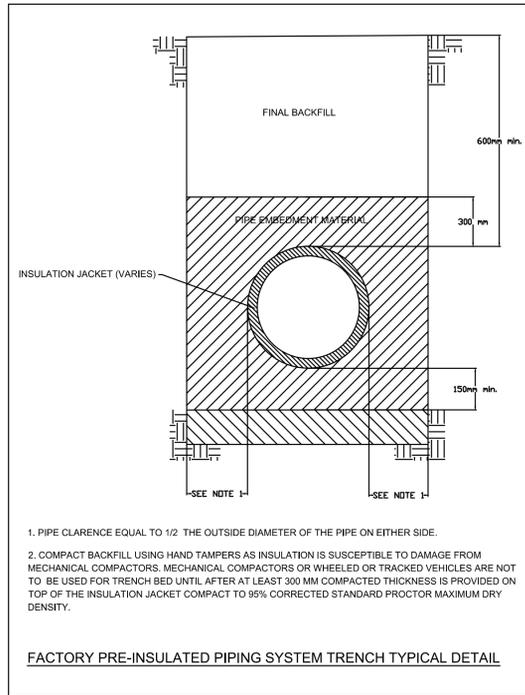
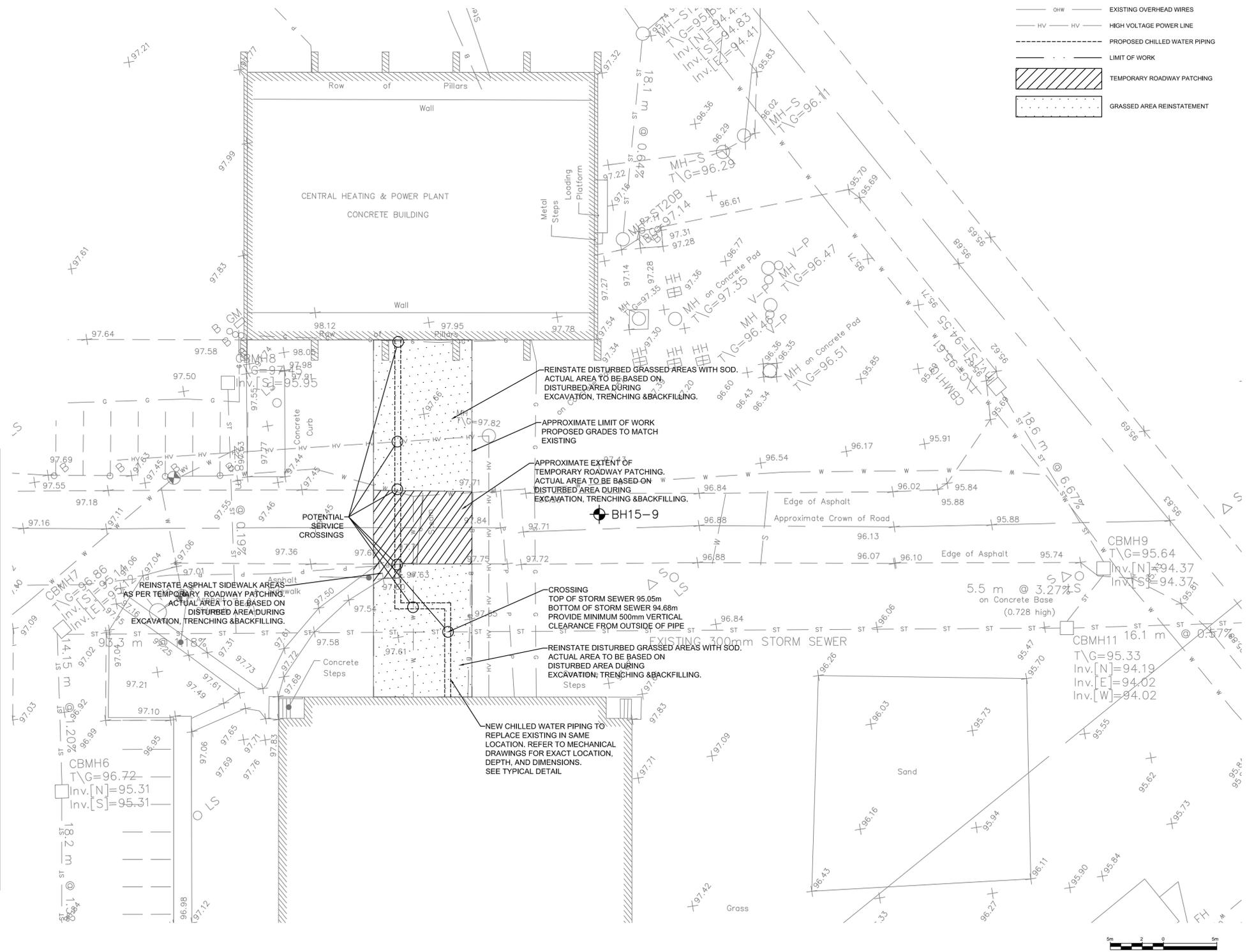


- GENERAL NOTES:**
1. THE LOCATION OF THE UNDERGROUND SERVICES IS FROM THE BEST AVAILABLE INFORMATION, BUT CAN NOT BE GUARANTEED. CONTRACTOR RESPONSIBLE TO VERIFY LOCATION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATION.
  2. THIS DRAWING DETAILS THE TRENCHING AND BACKFILL REQUIREMENTS FOR THE NEW CHILLED WATER PIPING. REFER TO MECHANICAL DRAWINGS FOR NEW CHILLED WATER PIPING DETAILS.
  3. REINSTATE LAWN AREAS WITH A MINIMUM OF 150 mm TOPSOIL AND SOD.
  4. REINSTATE ROAD CUT WITH NEW TEMPORARY ROADWAY PATCHING AS INDICATED IN TABLE.
  5. MAKE GOOD ALL AREAS DAMAGED AS A RESULT OF EXECUTING THIS WORK TO THE SATISFACTION OF THE ENGINEER.
  6. REMOVE AND DISPOSE OF LEGALLY ALL EXCESS MATERIAL.
  7. FOR UTILITY CROSSINGS, REFER TO CITY OF OTTAWA STANDARD DRAWING W25, W25.2, AND/OR S10.
  8. IF COMBINED TRENCHES ARE ENCOUNTERED, REFER TO CITY OF OTTAWA STANDARD DRAWING S7.

TEMPORARY ROADWAY PATCHING	
MATERIAL	COMPONENT THICKNESS
Asphaltic Concrete : Superpave 12.5 PG 58-34	40 mm
Granular Base: OPSS Granular A	300 mm



- LEGEND**
- ST — ST — EXISTING STORM SEWER
  - B — B — EXISTING BELL
  - W — W — EXISTING WATERMAIN
  - P — P — EXISTING POWER LINES
  - G — G — EXISTING GAS
  - OHV — OHV — EXISTING OVERHEAD WIRES
  - HV — HV — HIGH VOLTAGE POWER LINE
  - --- PROPOSED CHILLED WATER PIPING
  - --- LIMIT OF WORK
  - ▨ --- TEMPORARY ROADWAY PATCHING
  - ▨ --- GRASSED AREA REINSTATEMENT



1. PIPE CLARENCE EQUAL TO 1/2 THE OUTSIDE DIAMETER OF THE PIPE ON EITHER SIDE.
2. COMPACT BACKFILL USING HAND TAMPERS AS INSULATION IS SUSCEPTIBLE TO DAMAGE FROM MECHANICAL COMPACTORS. MECHANICAL COMPACTORS OR WHEELED OR TRACKED VEHICLES ARE NOT TO BE USED FOR TRENCH BED UNTIL AFTER AT LEAST 300 MM COMPACTED THICKNESS IS PROVIDED ON TOP OF THE INSULATION JACKET COMPACT TO 95% CORRECTED STANDARD PROCTOR MAXIMUM DRY DENSITY.

**FACTORY PRE-INSULATED PIPING SYSTEM TRENCH TYPICAL DETAIL**

DATE	REVISION	REF
NOV 25, 2015	ISSUED FOR TENDER	T.R.
AUG 14, 2015	ISSUED FOR 100%	T.R.
JULY 31, 2015	ISSUED FOR 90%	T.R.

THE ENGINEER MAKES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHER FAILURE TO OBTAIN AND / OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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NE PAS MESURER LES DESSINS À L'ÉCHELLE

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Project north  
 Nord du projet

Seal/Scou  
 T.S. RUDDOCK  
 100146821  
 05/11/2015  
 PROVINCE OF ONTARIO

Project/Projet  
**CFIA - MECHANICAL MAIN CHILLED WATER PIPING REPLACEMENT**

Drawing title/Titre du dessin

**CIVIL SERVICING**

Scale/Echelle: 1:200  
 Project no./No. du projet: ---  
 Design by/Conçu par: T.R.  
 Drawn by/Dessiné par: S.S.  
 Reviewed by/Examiné par: M.T.  
 Date: AUGUST 2015  
 Revision no.: ---  
 Acod file/Fichier: ---

**C1**