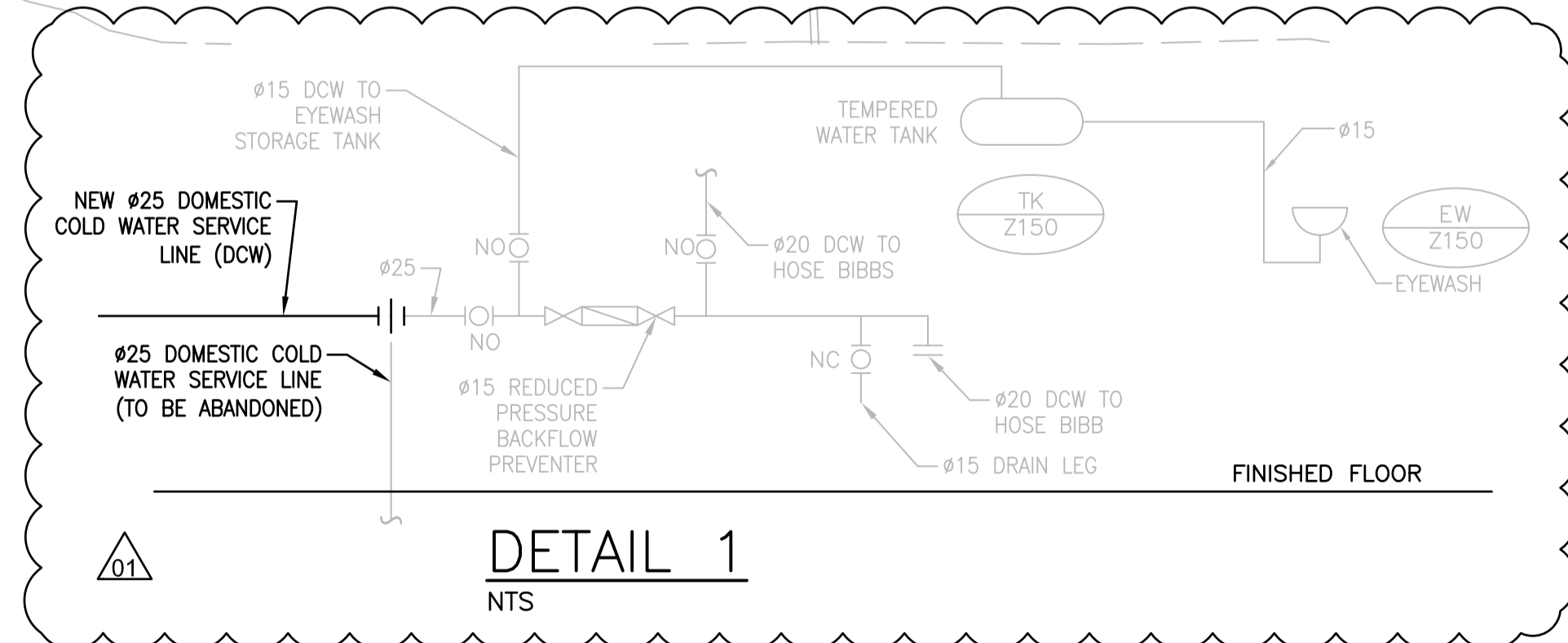


NOTES:

- REMOVE EXISTING #32 NATURAL GAS LINE.
- SUPPLY AND INSTALL #32 NATURAL GAS PIPING MEETING ASTM A333 GRADE 6, SCH 80 WITH EXTERNAL PVC YELLOW JACKET.
- ENSURE NATURAL GAS LINE IS LOCATED OUTSIDE OF EXCAVATION LIMITS. VERIFY EXISTING UNDERGROUND SERVICES LOCATION PRIOR TO EXCAVATION. COORDINATE NATURAL GAS RELOCATION WITH ANY OTHER EXCAVATIONS TO AVOID ANY OVERLAP BETWEEN THE NATURAL GAS LINE AND THE EXCAVATION WORKS.
- SEE SECTION DETAIL: DIRECT CABLE BURIAL U.G. INSTALLATION ON DRAWING 1-0102-ECRT-S001 TO COORDINATE EXCAVATIONS. MAINTAIN A MINIMUM SPACING OF 1.0m FROM ELECTRICAL CABLES.
- CONSTRUCT IN ACCORDANCE WITH CITY OF WINNIPEG SPECIFICATION:  
 CW2030 EXCAVATION BEDDING AND BACKFILL  
 SD-001 STANDARD PIPE BEDDING CLASSES  
 SD-002 STANDARD TRENCH AND EXCAVATION BACKFILL CLASSES.

- SUPPLY AND INSTALL #25 COPPER COLD WATER SUPPLY LINE IN EXISTING UV BUILDING. RUN #25 COPPER PIPE ALONG INTERIOR WALL OF UV BUILDING AND RECONNECT TO EXISTING BACKFLOW PREVENTER. SUPPLY AND INSTALL ALL SUPPORTS ALONG PIPE RUN. SEE DRAWING 1-0102-CUTY-Y006-001 FOR PIPING CONNECTION EXTERIOR TO UV BUILDING.
- COLD WATER SUPPLY LINE SHALL ENTER UV BUILDING ABOVE GRADE. SUPPLY AND INSTALL ELECTRIC HEAT TRACING AND INSULATION FOR WATER PIPE. HEAT TRACE TO BE RAYCHEM SELF REGULATING 5XL1-CT SERIES, COMPLETE WITH TYCO THERMAL EC-TS THERMOSTAT CONTROL, RAYCLIC-PC POWER CONNECTOR, AND ALL OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. THE HEAT TRACE IS TO EXTEND A MINIMUM OF 1.5 METERS BELOW GRADE, AND APPROXIMATELY 1.5 METERS ALONG THE EXTERIOR OF THE BUILDING AND INTO THE BUILDING. EXTEND HEAT TRACE 0.5 METERS INTO THE BUILDING. INSTALL HEAT TRACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- SUPPLY AND INSTALL A SEPARATE, DEDICATED 120 VAC, 1 PHASE POWER CIRCUIT FROM U.V ELECTRICAL ROOM PANEL C TO THE HEAT TRACE. SUPPLY AND INSTALL 2 - 12 AWG RW90 COPPER AND 14 AWG RW90 GREEN COPPER GROUND RUN IN 21 MM CONDUIT FROM PANELBOARD C FOR HEAT TRACE.
- CONFIRM EXACT CIRCUIT NUMBER TO BE USED ON SITE. SUPPLY AND INSTALL NEW 15A, 1P, 30MA GFCI CIRCUIT BREAKER, SUITABLE FOR INSTALLATION IN EXISTING PANELBOARD C, MATCH EXISTING BREAKER INTERRUPTING RATINGS.
- UPDATE CIRCUIT DIRECTORY AND PROVIDE AS BUILT DRAWINGS.



CH2MHILL			
SNC-LAVALIN		KCS GROUP	
DESIGNED BY:	S. BEGG	CHECKED BY:	S. BEGG
DRAWN BY:	J. CORTEZ	APPROVED BY:	B. WILLIAMSON
SCALE:	1:250	ISSUED FOR CONSTRUCTION	BY:
DATE:	2014/06/27	DATE:	
CONSULTANT NO.:	474248		
01 ISSUED FOR ADDENDUM NO. 1	07/2014	J.C.	S.B.
00 ISSUED FOR TENDER	06/2014	J.C.	S.B.
NO. REVISIONS	DATE	DESIGN	CHECK



**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE  
 SEWPCC UPGRADE/EXPANSION PROJECT  
 MECHANICAL

**NATURAL GAS LINE RELOCATION AND WATER SERVICE LINE CONNECTION**

CITY DRAWING NUMBER: 1-0102-MUTY-Y001  
 SHEET: 001  
 REV: 01  
 SIZE: A1