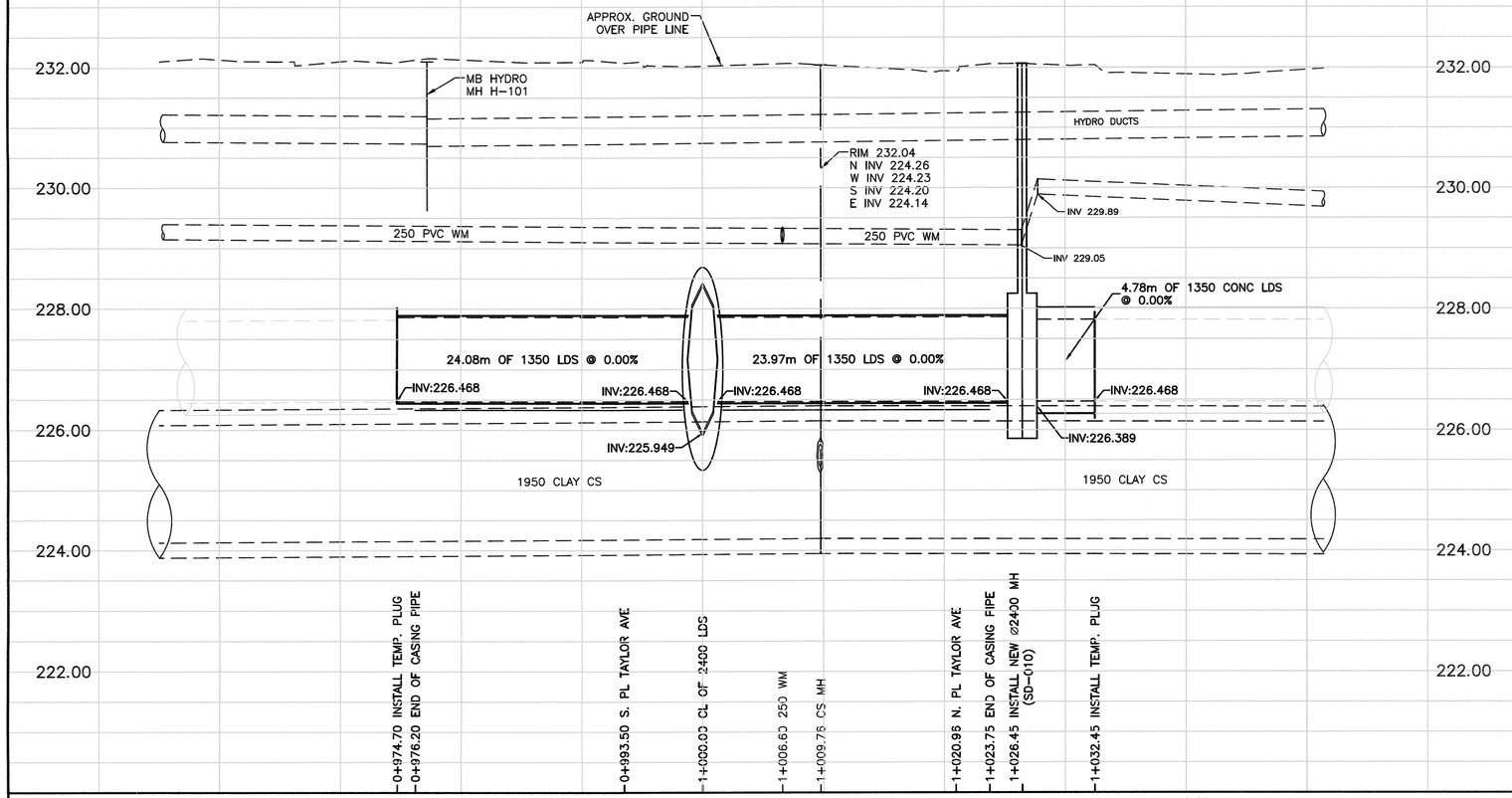
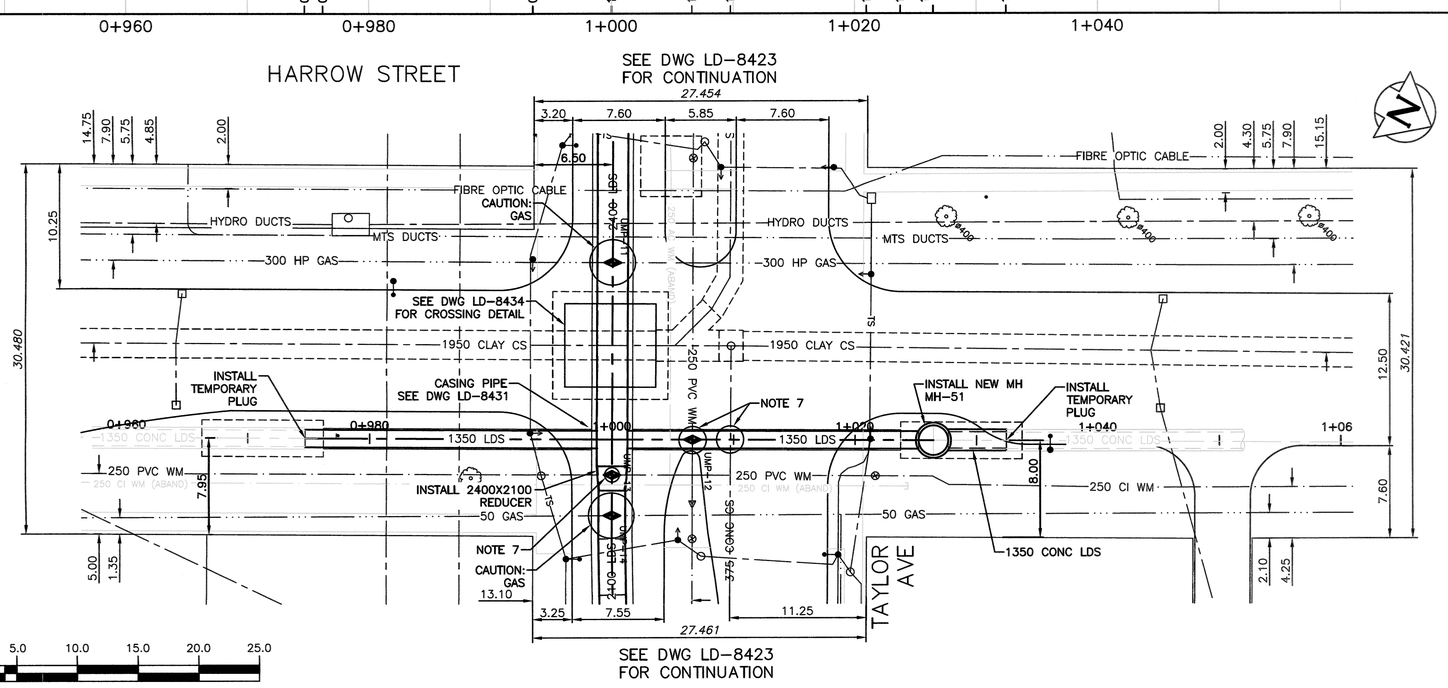




150 WM	WATER MAIN	150 WM		HYDRO		150 WM	WATER MAIN	150 WM
✧	HYDRANT	✦		M.T.S.		⊥ ⋈	HYDRANT, VALVE	⊥
⊗	VALVE	⊗		CONCRETE		300 LDS	LAND DRAINAGE SEWER	300 LDS
300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT		250 WWS	WASTE WATER SEWER	250 WWS
250 WWS	WASTE WATER SEWER	250 WWS		SIDEWALK		×	CENTRELINE	
○	MANHOLE	●		PLANING		⊡	NORTH/WEST GUTTER	
□	CATCH BASIN	■		PROPERTY LINE		⊙	SOUTH/EAST GUTTER	
▽	CURB INLET	▼		SURVEY BAR		◇ , ○	N/W , S/E ℄'S	
⊢⊣	BEND	⊢⊣		GAS				
⊽	REDUCER	⊽		CURB STOP				
⊐		⊐		TEE				
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	01/2018	JBC

KGS GROUP CONSULTING ENGINEERS
ch2m:

DESIGNED BY SDG
DRAWN BY JBC
CHECKED BY MD
APPROVED BY
HOR. SCALE: 1:250
VERTICAL: 1:50
RELEASED FOR CONSTRUCTION:
DATE

ENGINEER'S SEAL 01-19-18
PROVINCE OF MANITOBA S. D. GODON Member 25524 REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
C-253

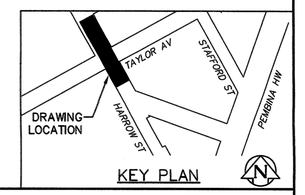
WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

PROPERTY LIMITS DELINEATION
DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DRAWING DOES NOT REPRESENT A "LEGAL SURVEY". CH2M HILL MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DRAWING, NOR ON THE DIMENSIONAL ACCURACY OF DRAWING FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

CONSTRUCTION NOTES:

1. SEWER AND WATER SERVICES SHOWN ON DRAWING ARE APPROXIMATE ONLY.
2. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN FIELD.
3. INSTALL NEW SEWER BY TRENCHLESS METHODS, UNLESS OTHERWISE NOTED.
4. TRAFFIC MANAGEMENT PLAN TO BE IMPLEMENTED AS PER SPECIFICATIONS DURING EACH PHASE OF CONTRACT.
5. ALL SIZING FOR SHAFTS ARE SHOWN FOR PLANNING ONLY. CONTRACTOR TO DETERMINE REQUIRED SHAFT SIZE BASED ON SELECTED METHODOLOGY.
6. CONTRACTOR'S TEMPORARY SHAFT TO HAVE A MIN. OF 1.0m OF PROPOSED LDS INSTALLED INSIDE SHAFT. SHAFT TO BE FULLY BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (MAX. 1MPa).
7. HYDRO EXCAVATE UTILITY PRIOR TO TUNNEL CONSTRUCTION.

APEGM
Certificate of Authorization
CH2M HILL Canada Ltd.
No. 1441



KEY PLAN

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

PROJECT TITLE
COCKBURN AND CALROSSIE COMBINED SEWER RELIEF WORKS – CONTRACT 5
HARROW STREET

SHEET OF 16 OF 25
COMPUTER FILE NAME C-253.dwg
CITY DRAWING NUMBER LD-8427

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