## <u>WATERMAIN</u>

- ALL WATERMAIN AND WATER SERVICE MATERIALS AND INSTALLATION SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS AND SPECIFICATIONS.
- 2. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m. THERMAL INSULATION SHALL BE INSTALLED WHERE ADEQUATE SEPARATION CANNOT BE ACHIEVED AS PER CITY STANDARD W21, W22
- 3. ALL WATERMAIN WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR.
- WATERMAIN IS TO BE PVC DR18 WITH TRACER WIRE AS PER CITY OF OTTAWA STANDARD W36 UNLESS
- 5. VALVE BOXES AS PER CITY OF OTTAWA DETAIL W24.
- 6. ALL FIRE HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W19 AND LOCATED AS PER CITY STANDARD W18 AND/OR CITY STANDARD CROSS
- WATERMAIN BEDDING IS TO BE AS PER CITY OF OTTAWA DETAIL W17.
- 8. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3, W25.4, W25.5 AND W25.6.
- 9. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS PER CITY OF OTTAWA DWGS: W39, W40,
- 10. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- 11. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.

## 12. WATER SERVICES TO BE INSTALLED AS PER CITY OF

OTTAWA STANDARD W26 AND W35. 13. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON

RECEPTACLE SHALL BE IN ACCORDANCE WITH CITY

14. INSTALLATION OF WATER METER AND REMOTE

OF OTTAWA STANDARDS.

- SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN
- 3. ALL SANITARY SEWERS ARE TO BE THE SIZES INDICATED AND

2. SEWER BEDDING AS PER CITY STANDARD S6 & S7.

STORM AND SANITARY SEWERS

A257.3 (JOINTS).

THE MATERIAL SHALL BE PVC SDR35. 4. ALL STORM SEWERS ARE TO BE THE SIZES INDICATED AND THE MATERIAL SHALL BE PVC SDR35 OR REINFORCED

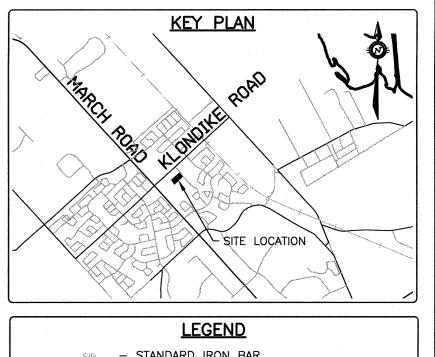
CONCRETE IN ACCORDANCE WITH CSA STANDARDS A257.2 AND

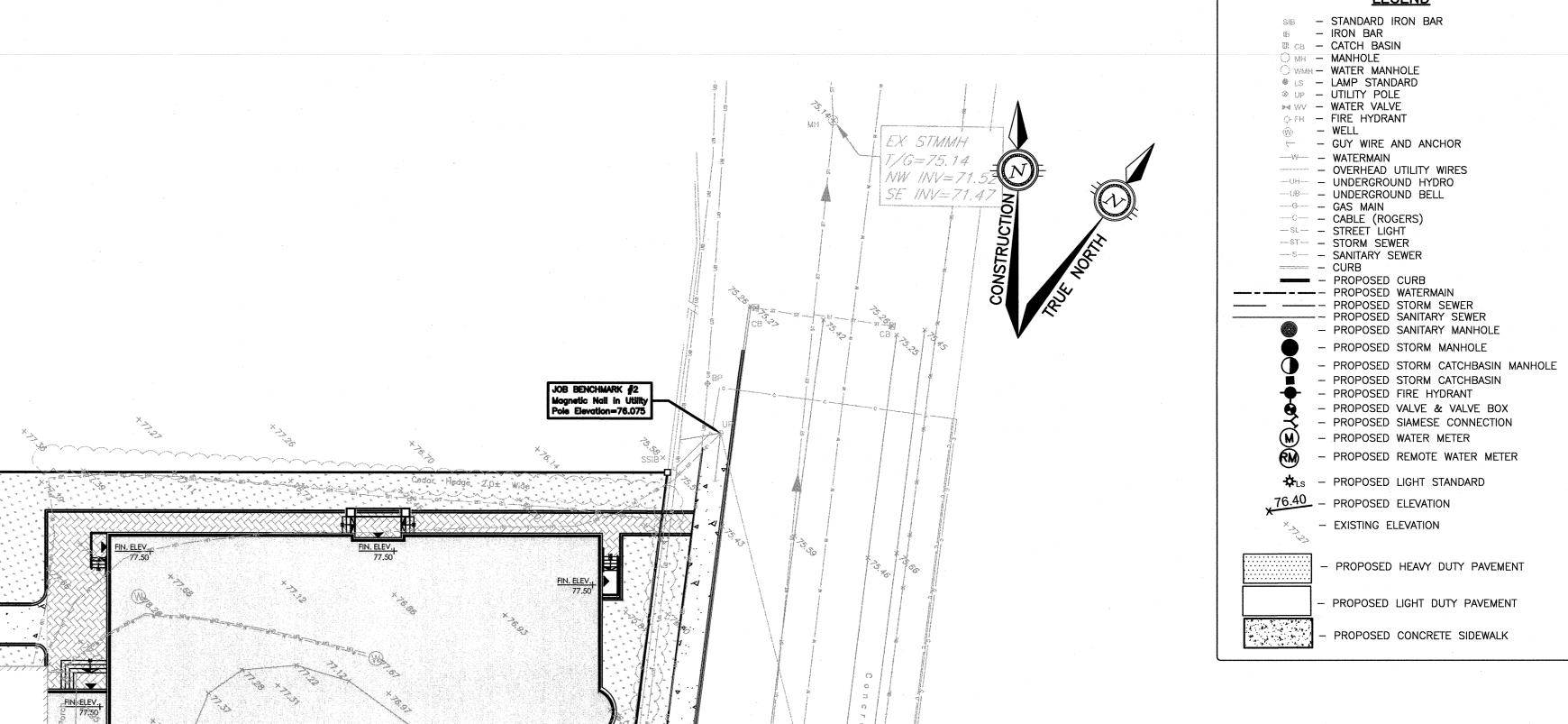
SANITARY AND STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARD

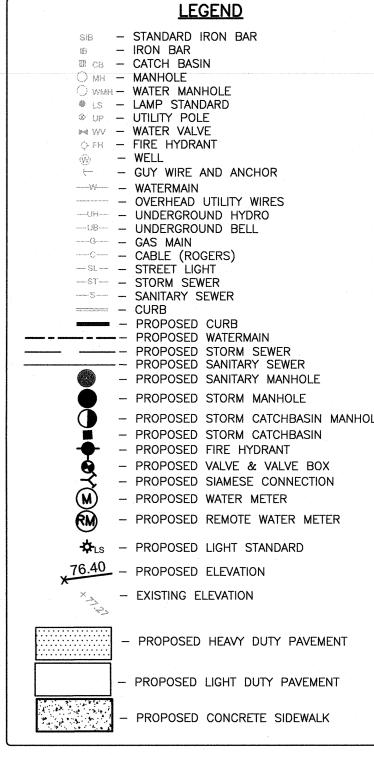
DRAWINGS AND SPECIFICATIONS AND OPSS 407 AND 410.

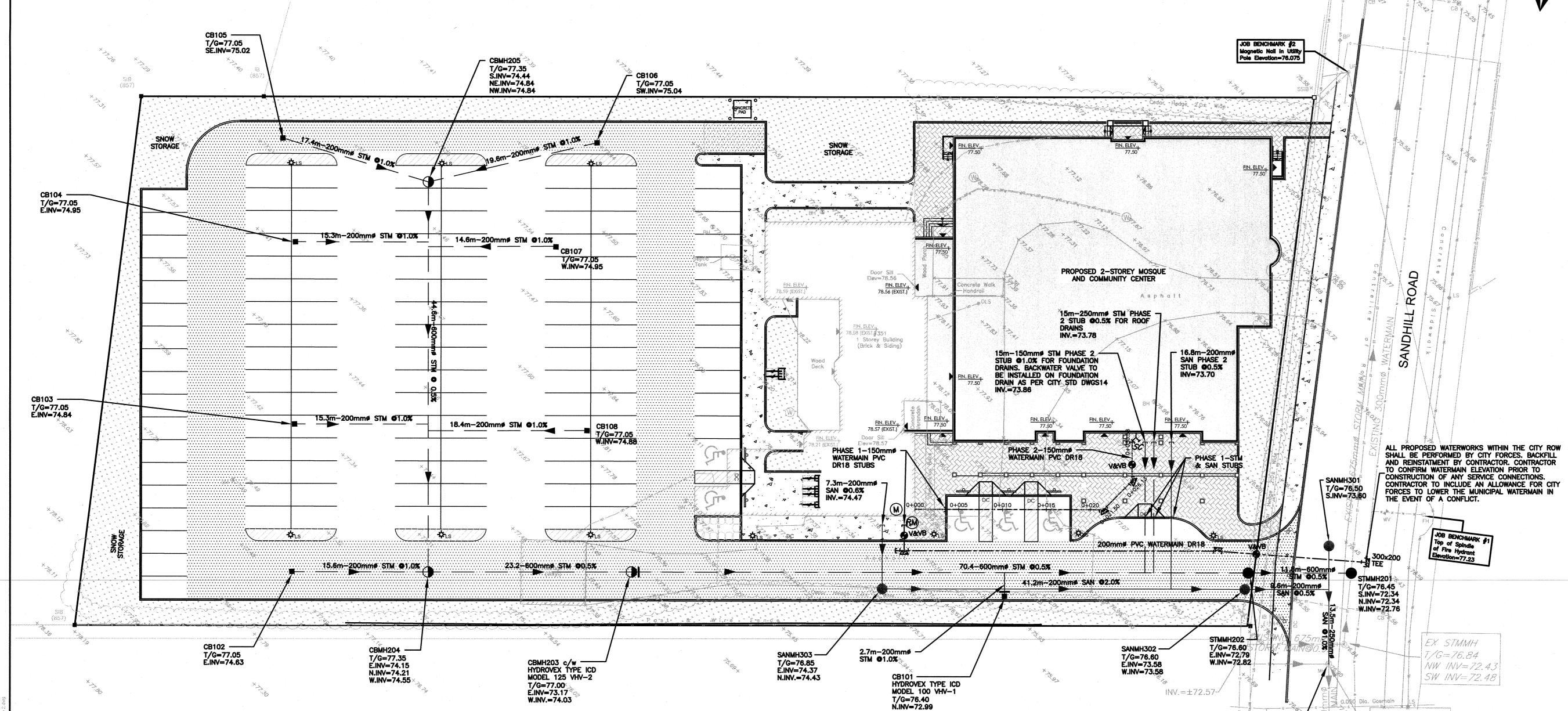
- 5. ALL MANHOLES, CATCHBASINS AND CATCHBASIN MANHOLES TO BE BACKFILLED WITH MIN. 0.3m HORIZONTAL THICKNESS GRANULAR 'A'.
- 6. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN TO WITHIN 1.0m OF BUILDING WALLS AND PROVIDE TEMPORARY CAPS.
- 7. THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON ALL NEWLY INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND SUPERVISED BY
- 8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM AND SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED AND
- 9. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
- 10. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF OTTAWA STANDARD DRAWING \$14.1.
- 11. MINIMUM SOIL COVER TO BE 2.0m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE COVER CANNOT BE ACHIEVED, THERMAL INSULATION TO BE INSTALLED AS PER OPSD 514.010.

WATERMAIN TABLE			
STATION	FIN/GRADE	T/W GRADE	COMMENT
0+003.5	76.65	74.25	TIE INTO EXISTING WATERMAIN PHASE 1 STUB
0+010	76.63	74.23	TOP OF WATERMAIN
0+021.5	76.70	74.30	THRUST BLOCK
0+026.1	76.72	74.32	THRUST BLOCK
0+030.6	76.90	74.50	WM CAPPED









APPROVED □ REFUSED

DERRICK MOODIE, MANAGER DEVELOPMENT REVIEW WEST PLANNING INFRASTRUCTURE AND ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

CAUTION
THE POSITION OF ALL POLE LINES,
CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR

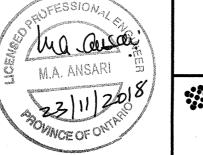
DAMAGE TO THEM.

NOT FOR CONSTRUCTION

REVISED AS PER CITY COMMENTS 02/11/18 AE ISSUED FOR COORDINATION 02/10/18 AE AA ISSUED FOR SITE APPROVAL 29/06/18 AE ISSUED FOR COORDINATION 06/06/18 ML 10/05/18 ML ISSUED FOR COORDINATION

DATE BY

REVISION DESCRIPTION



EXISTING SANMH N.INV=73.45

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EX SANMH

T/G = 76.90SW /NV=7351

EX STMMH

NW INV=72.43 SW /NV=72.48

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •

ML OJECT MANAGER

OTT-00238504-/ KMA MOSQUE AND COMMUNITY CENTRE 351 SANDHILL ROAD, OTTAWA, ON F M & W 2016-12-09 SITE SERVICING SS-2 PHASE 2