

A Hamlin

ALLISON HAMLIN
MANAGER, DEVELOPMENT REVIEW ALL WARDS
PLANNING, DEVELOPMENT & BUILDING SERVICES
DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 4:40 pm, Dec 10, 2024

GENERAL NOTES:

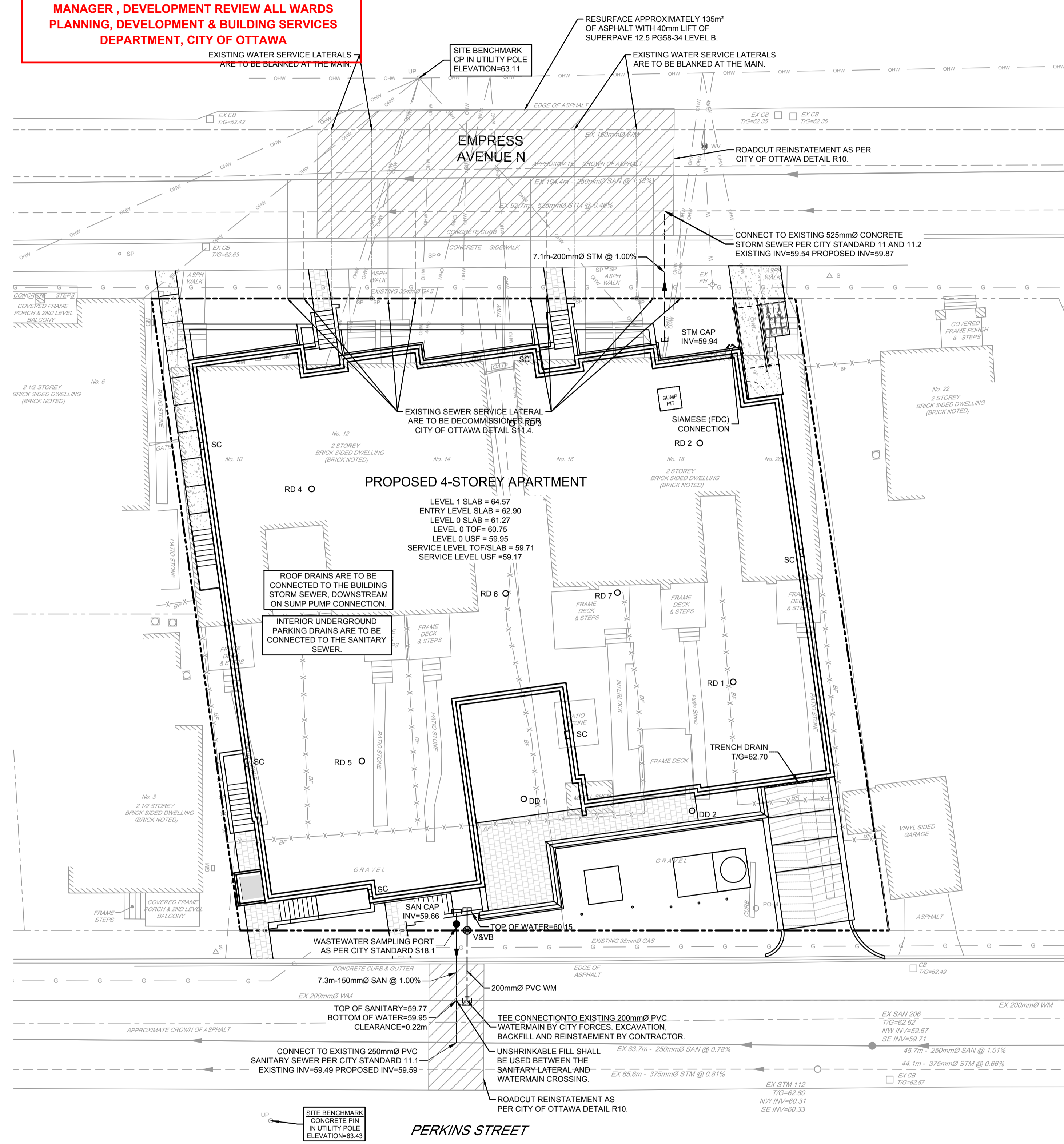
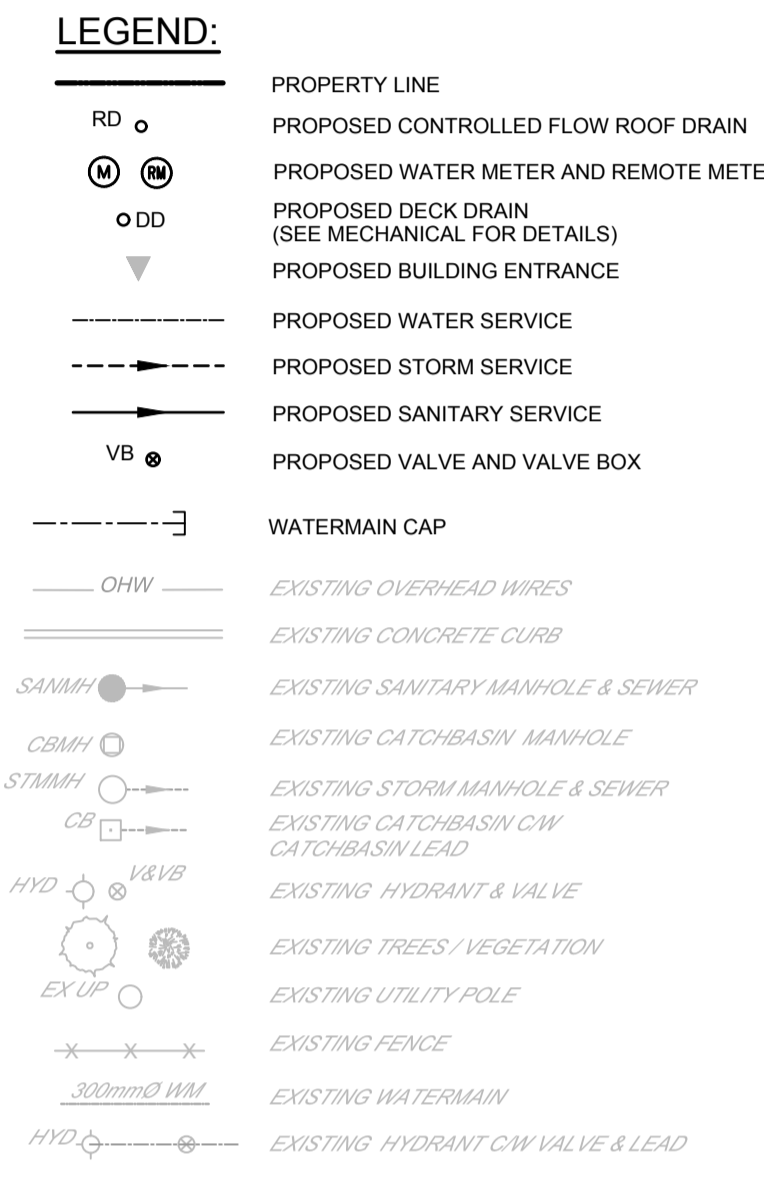
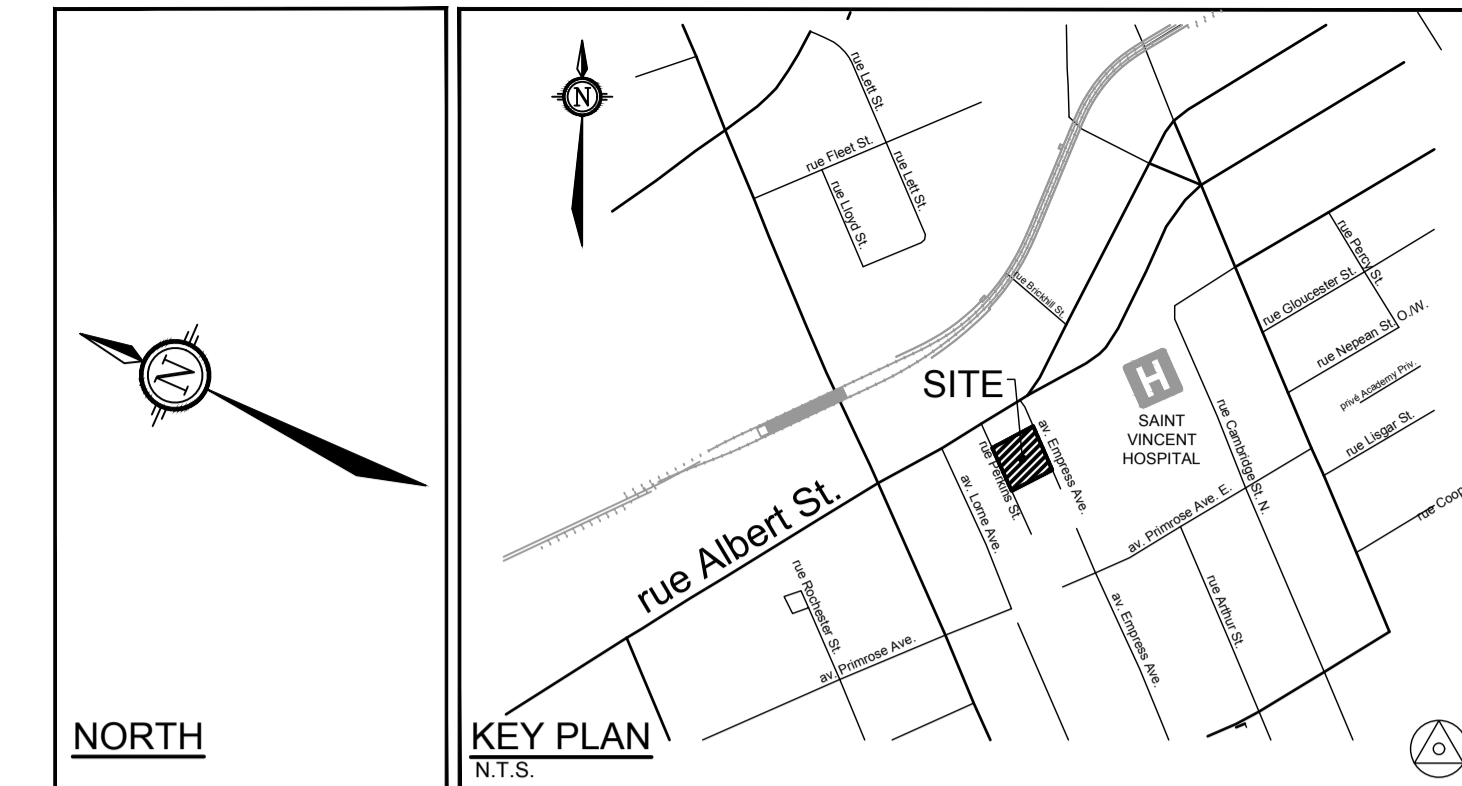
- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00.
5. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
6. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER.
7. ALL ELEVATIONS ARE GEODETIC.
8. REFER TO GEOTECHNICAL INVESTIGATION REPORT (FILE No. 329062.01), DATED FEBRUARY 22, 2024, PREPARED BY PINCHIN LTD.
9. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
10. REFER TO DEVELOPMENT SERVICING STUDY & STORMWATER MANAGEMENT REPORT (R-2023-111) PREPARED BY NOVATECH.
11. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
12. COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD, & AVWA GUIDELINES - ALL CURRENT VERSIONS AND AS AMENDED.
13. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.

SEWER NOTES:

- 1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AVWA GUIDELINES - ALL CURRENT VERSIONS AND AS AMENDED.
2. SPECIFICATIONS:
ITEM: STORM MANHOLE (1200mmØ)
SPEC. No.: 701.010
REFERENCE: OPSD
ITEM: STORM / CBMH MANHOLE FRAME AND COVER
SPEC. No.: 401.010 - TYPE "B"
REFERENCE: OPSD
ITEM: SEWER TRENCH
SPEC. No.: S6
REFERENCE: CITY OF OTTAWA
ITEM: STORM SERVICE
SPEC. No.: PVC DR 35
REFERENCE: CITY OF OTTAWA
ITEM: SANITARY SERVICE
SPEC. No.: PVC DR 35
REFERENCE: CITY OF OTTAWA
3. THE SANITARY SERVICE LATERAL SHALL BE EQUIPPED WITH A BACKFLOW PREVENTER WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14.1 OR S14.2.
4. THE STORM SERVICE LATERAL SHALL BE EQUIPPED WITH A BACKFLOW PREVENTER WITHIN THE BUILDING FOOTPRINT AS PER CITY OF OTTAWA STANDARD DETAILS S14. REFER TO MECHANICAL PLANS FOR DETAILS.
5. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
6. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TIG ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES, ETC.
7. THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.

WATERMAIN NOTES:

- 1. SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS - ALL CURRENT VERSIONS AND AS AMENDED.
2. SPECIFICATIONS:
ITEM: WATERMAIN TRENCHING
SPEC. No.: W17
REFERENCE: CITY OF OTTAWA
ITEM: THERMAL INSULATION IN SHALLOW TRENCHES
SPEC. No.: W22
REFERENCE: CITY OF OTTAWA
ITEM: WATERMAIN MATERIAL
SPEC. No.: PVC DR 18
REFERENCE: CITY OF OTTAWA
3. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS. EXCAVATION, INSTALLATION OF SERVICE, BACKFILL AND RESTORATION BY THE CONTRACTOR.
4. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
5. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS, UNLESS OTHERWISE INDICATED.
6. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

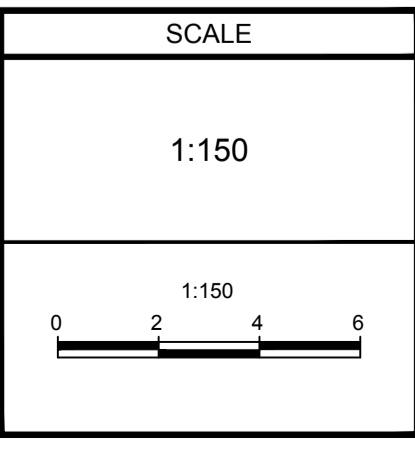


ROOF DRAIN TABLE: AREA R1 to R7 (FOR DRAINS RD1 to RD7)
Table with columns: AREA ID, ROOF DRAIN No. (WATTS MODEL), WEIR SETTING, 1:5 YEAR RELEASE RATE, APPROX. 5 YR PONDING DEPTH, 1:100 YEAR RELEASE RATE, APPROX. 100 YR PONDING DEPTH.
Rows: R1, R2, R3, R4, R5, R6, R7, TOTALS.

PROPOSED 200mmØ WATER SERVICE TABLE
Table with columns: STATION, SURFACE ELEVATION, TWM ELEVATION, COMMENTS.
Rows: 0+000, 0+003.8, 0+005.1.

NOTE: THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, 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.

Revision table with columns: No., REVISION, DATE, BY.
Rows: 5 REVISED PER CITY COMMENTS, 4 ISSUED FOR SPC APPLICATION, 3 ISSUED FOR TENDER, 2 ISSUED FOR BUILDING PERMIT, 1 ISSUED FOR COORDINATION.



FOR REVIEW ONLY. DESIGN: LSC / MS. CHECKED: MS. DRAWN: LSC. CHECKED: MS. APPROVED: MS. Includes a professional engineer seal for M. SAVIC, 100102651, 11/05/24, PROVINCE OF ONTARIO.

NOVATECH. Engineers, Planners & Landscape Architects. Suite 200, 240 Michael Cowpland Drive, Ottawa, Ontario, Canada K2M 1P6. Telephone: (613) 254-9643. Website: www.novatech-eng.com

LOCATION: CITY OF OTTAWA, 10 EMPRESS AVE. DRAWING NAME: GENERAL PLAN OF SERVICES. PROJECT No.: 121234. REV #5. DRAWING No.: 121234-GP. PLAN #19176.

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