GENERAL NOTES:

- THE OWNER'S PROFESSIONAL ENGINEER IS REQUIRED TO INSPECT THE INSTALLATION OF SERVICES INCLUDED IN THIS PROJECT IN ACCORDANCE WITH THE GENERAL REVIEW COMMITMENT CERTIFICATION PROCESS. THE CONTRACTOR IS TO PROVIDE AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION OF THE SITE SERVICES. . THE OWNER/OWNER'S CONTRACTOR SHALL HAVE ITS PROFESSIONAL ENGINEER PROVIDE FULL—TIME INSPECTION DURING CONSTRUCTION ON AN EXISTING MUNICIPAL
- STREET OR EASEMENT AND PROVIDE A CERTIFICATE OF COMPLETION OF WORKS UPON COMPLETION OF ALL WORKS TO BE CONSTRUCTED. 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE 2012 ONTARIO BUILDING CODE AND ANY APPLICABLE STATUTES, REGULATIONS, CODES AND BY-LAWS.

CONSTRUCTION NOTES:

- REFER TO THE SITE PLAN FOR LAYOUT DIMENSIONING AND SIGN/POST DETAILS.
- 2. THE OWNER'S CONTRACTOR IS TO CONTACT THE CONSULTING ENGINEER FOR FINAL INSPECTION.
- 3. THE OWNER'S CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES UNDER THE OCCUPATIONAL HEALTH AND SAFETY ACT AS REQUIRED BY THE MINISTRY OF LABOUR.
- 4. THE OWNER'S CONTRACTOR IS TO REVIEW AND CONFIRM ALL EXISTING CONDITION INFORMATION & INFORM STRIK, BALDINELLI, MONIZ LTD. (SBM) OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. SBM IN NO WAY ACCEPTS RESPONSIBILITY FOR ANY INACCURACIES FOUND ON THIS PLAN RELATIVE TO EXISTING CONDITIONS FOR THE SITE.
- . PRIOR TO COMMENCING ANY CONSTRUCTION, ALL SEWER OUTLET INFORMATION, BENCHMARKS, ELEVATIONS, DIMENSIONS, GRADES, ETC. MUST BE CHECKED BY THE CONTRACTOR AND VERIFIED AND ANY DISCREPANCIES REPORTED TO THE ENGINEER PRIOR TO COMMENCING ANY WORK ON THE INSTALLATION OF SERVICES & GRADING, AN APPROVED SET OF PLANS AND SPECIFICATIONS MUST BE AVAILABLE ON THE
- JOB AND SHALL REMAIN THERE WHILE WORK IS BEING DONE. 7. Strip full depth of topsoil in areas to be disturbed and stock pile for re—use in grassed/landscaped areas.

. SBM LTD. IS NOT RESPONSIBLE FOR THE INFORMATION (EXISTING TOPOGRAPHY, BENCHMARKS, PROPERTY BOUNDARY, ETC.) PROVIDED BY OTHERS.

- 8. OWNER'S CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT INVERTS AND GRADES, RECORD ANY DEVIATION OF PIPE OR STRUCTURE LOCATION INVOLVED WITH THIS PROJECT AND OWNER'S CONTRACTOR TO PROVIDE A COPY OF THE AS-BUILT DRAWING SHOWING ALL CHANGES CLEARLY MARKED IN RED.
- 9. THE OWNER'S CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES PREPARED BY THE MINISTRY OF NATURAL RESOURCES. THESE MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION FOR THIS PROJECT AND ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN COMPLETED TO BASE ASPHALT AND SOD OR THE SATISFACTION OF THE MUNICIPAL ENGINEER.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR: 10.1. CONNECTING ANY EXISTING SEWER OR DRAIN ENCOUNTERED DURING CONSTRUCTION TO A NEW SEWER OF SIMILAR TYPE, SIZE AND MATERIAL OR INTO ANOTHER EXISTING SEWER OF THE SAME TYPE.
- 10.2. ENSURING THAT THERE IS NO INTERRUPTION OF ANY SURFACE OR SUBSURFACE DRAINAGE FLOW THAT WOULD ADVERSELY AFFECT NEIGHBOURING PROPERTIES. 11. NO FOUNDATION DRAIN CONNECTIONS WILL BE PERMITTED INTO THE SANITARY SEWERS AND NO DIRECT GRAVITY CONNECTIONS FROM THE FOUNDATION DRAINS WILL BE OPSD PERMITTED TO THE STORM SYSTEM UNLESS THE STORM SYSTEM HAS THE CAPACITY TO PROVIDE FOR SUCH CONNECTIONS TO THE SATISFACTION OF THE MUNICIPAL OPSD
- 12. WORK ON OR ADJACENT TO THE MUNICIPAL R.O.W. SHALL BE COMPLETED IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL BOOK 7 LATEST EDITION

UTILITIES NOTES:

- ALL WORK FOR COORDINATION, DESIGN, AND CONSTRUCTION OF UTILITIES IS BY OTHERS. SBM DESIGN AND DRAWINGS ARE FOR MUNICIPAL SERVICING ONLY. ANY UTILITY
- INFORMATION SHOWN IS FOR REFERENCE/COORDINATION PURPOSES ONLY AND MAY NOT BE ACCURATE. THE UTILITIES COORDINATING COMMITTEE MUST BE INFORMED AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION ON ANY EXISTING ROAD ALLOWANCE. ALL EXISTING THE UTILITIES COORDINATING COMMITTEE MUST BE INFORMED AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION ON ANY EXISTING ROAD ALLOWANCE. ALL EXISTING OPSD UNDERGROUND SERVICE OR UTILITIES WITHIN THE LIMITS OF THE CONSTRUCTION SITE SHALL BE LOCATED AND MARKED. ANY UTILITIES, DAMAGED OR DISTURBED DURING OPSD OPSD CONSTRUCTION. SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE GOVERNING BODY AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING UNDERGROUND UTILITY (TELEPHONE, HYDRO, GAS, CABLE, SEWER, WATERMAINS, ETC.) THAT WILL BE CROSSED UNDER DURING THE INSTALLATION OF SERVICES FOR THIS DEVELOPMENT SHALL BE SUPPORTED, AS MAY BE REQUIRED BY THE OWNERS OF THE UTILITY BEING CROSSED UNDER.
- OWNER'S CONTRACTOR TO LOCATE/FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. 5. OWNER'S CONTRACTOR TO COORDINATE WITH UTILITIES PROVIDER FOR BRACING, DECOMMISSIONING AND/OR RELOCATION OF EXISTING GAS, HYDRO, TELEPHONE, CABLE ETC. SERVICES, IF REQUIRED.

RESTORATION NOTES:

- I. ALL WORK IN THE ROAD ALLOWANCES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE APPLICABLE APPROVAL AUTHORITY'S ENVIRONMENTAL AND ENGINEERING SERVICES DEPARTMENT. THE CONTRACTOR IS REQUIRED TO OBTAIN & PAY FOR PERMIT TO WORK IN THE R.O.W. 2. ALL SURFACES WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST AS GOOD AS ORIGINAL, OR AS PER BELOW (WHICHEVER IS GREATER) OR IF WITHIN THE RIGHT OF WAY TO THE SATISFACTION OF THE APPLICABLE ENGINEER, ALL AT NO COST TO THE APPLICABLE APPROVAL AUTHORITY
- GRASSED AREAS TO BE RESTORED w/ 100mm TOPSOIL + SOD CONCRETE SIDEWALK TO OPSD 310.020.
- 2.3. CONCRETE CURB AND GUTTER TO OPSD 600.110 (ON-SITE BARRIER CURB) UNLESS OTHERWISE SPECIFIED. 2.4. ANY ASPHALT AREA DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS FOLLOWS:
- 2.4.1. PROOF ROLL SUBGRADE (TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER) PRIOR TO PLACEMENT OF GRANULARS (98% SPMDD MIN.).
- 2.4.2. MILL ADJACENT ASPHALT TO BE TIED INTO 50mm DEEP x 500mm WIDE PRIOR TO RESTORATION SEE DETAIL ON SHEET C1. 2.4.3. MIN. RECOMMENDED ON-SITE PAVEMENT STRUCTURE + ASSUMED McCONNEL STREET PAVEMENT STRUCTURE (TO BE REVIEWED & APPROVED BY THE GEOTECHNICAL ENGINEER)
 - -40mm HL3 SURFACE ASPHALT COMPACTED TO 97% MARSHALL MIX DESIGN BULK DENSITY -50mm HL8 BINDER ASPHALT COMPACTED TO 97% MARSHALL MIX DESIGN BULK DENSITY
 - ASPHALT TO BE SUPPLIED AND PLACED IN ACCORDANCE WITH OPSS 310 & 1150 -150mm OF GRANULAR 'A' COMPACTED TO 100% SPMDD
- -300mm OF GRANULAR 'B' COMPACTED TO 100% SPMDD
- RESTORE ALL PAVEMENT MARKINGS TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS AND MARKINGS SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 710 'CONSTRUCTION SPECIFICATION FOR PAVEMENT MARKING'.
- ALL EXTERIOR HORIZONTAL CONCRETE SHALL BE MIN 100mm THICK, 32 MPa AT 28 DAYS c/w 5-8% AIR ENTRAINMENT ON MIN. 100mm THICK GRANULAR 'A' 3. ALL AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL NOT BE DISTURBED. ANY DAMAGED TO THOSE AREAS ARE TO BE REPAIRED AT THE CONTRACTORS EXPENSE.

SERVICING NOTES:

- . ALL STORM AND/OR SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT MUNICIPALITY OF SOUTH HURON'S MUNICIPAL DESIGN STANDARDS FOR STORM DRAINAGE, STORMWATER MANAGEMENT AND LOT GRADING AND THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
- . ALL SITE SERVICES SHALL BE INSTALLED TO 1.0m OUTSIDE FOUNDATION WALL i. ALL ORGANIC, UNSTABLE OR UNSUITABLE MATERIALS BENEATH THE ROAD ALLOWANCE, SERVICES, UTILITIES, OR FOUNDATIONS MUST BE REMOVED AND THESE AREAS BACKFILLED WITH AN APPROVED FILL MATERIAL, ALL TO THE SATISFACTION OF A GEOTECHNICAL ENGINEER AND SHOULD BE PLACED IN LIFTS NOT EXCEEDING 300mm (LOOSE) THAT ARE COMPACTED TO 95% SPMDD (100% FOR PAVED SURFACES). THE FILL MATERIAL SHOULD COMPRISE OF CLEAN, COMPACTIBLE FILL WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT.
- 4. REMOVE ALL TRENCH WATER WHEN PIPE LAYING IS IN PROGRESS. ALL REQUIREMENTS FOR DEWATERING PERMITS (INCLUDING THE MOE'S PERMIT TO TAKE WATER, IF REQUIRED) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- . CONNECTIONS FROM FOUNDATIONS, WEEPING TILE, SUMP PUMP, AND ROOF DRAINS ARE NOT PERMITTED TO ENTER THE SANITARY SEWER SYSTEM 6. ALL PROPOSED STORM SEWER PIPE SHALL BE: PVC SMOOTH WALL (CSA B182.2) (1000 TO 6000) OR RIBBED (CSA B182.4) (2000 TO 6000) OR HDPE (CSA B182.8) (200¢ TO 600¢) OR NON-REINFORCED CONCRETE (CAN/CSA 257.1) (100¢ TO 600¢) OR REINFORCED CONCRETE (CAN/CSA 254.2) AND SANITARY SEWER PIPE TO BE PVC SMOOTH WALL (CSA B182.2) (100ø TO 600ø) OR RIBBED (CSA B182.4) (200ø TO 600ø) OR NON-REINFORCED CONCRETE (CAN/CSA 257.1) (100ø TO 600ø) OR REINFORCED CONCRETE (CAN/CSA 254.2). PVC PIPE SHALL BE LAID WITH TYPE I BEDDING UNDER 4.5m OF COVER AND TYPE II BEDDING OVER 4.5m OF COVER. CONCRETE PIPE SHALL BE LAID WITH CLASS B (B1 OR B2) BEDDING. ALL SEWER BACKFILL MUST BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY (MINIMUM) (100% FOR PAVED AREAS), REFER TO THE OPSD 802.03 AS PER MUNICIPALITY OF SOUTH HURON MUNICIPAL DESIGN STANDARDS FOR STORM DRAINAGE, STORMWATER
- MANAGEMENT AND LOT GRADING. THE MINIMUM DEPTH OF A STORM SEWER SHALL BE 1.22m FROM THE FINISHED GROUND ELEVATION TO THE CROWN OF THE PIPE AS PER OPSD 3090.101 'FOUNDATION, FROST PROTECTION DEPTHS FOR SOUTHERN ONTARIO'. WHERE MINIMUM DEPTHS CANNOT BE ACHIEVED AND THEREFORE FROST PROTECTION IS WARRANTED, INSULATION IS REQUIRED AS PER SERVICE INSULATION DETAIL ON THIS SHEET.
- I. ALL STORM AND SANITARY SEWERS/SERVICES AND CATCHBASIN LEADS SHALL HAVE APPROVED RUBBER GASKET JOINTS + BE INSTALLED USING A LASER LEVEL. 9. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES
- 10. ALL CATCHBASINS TO HAVE 0.6m SUMP AS PER OPSD 705.010 AND CATCHBASIN MANHOLES 12000 & LARGER TO HAVE 0.3m SUMP AS PER OPSD 701.010. 11. 3.0m LENGTHS OF 150mm DIAMETER PERFORATED FILTER WRAPPED PVC PIPE ARE TO BE INSTALLED AS SUBDRAINS CONNECTED TO TWO SIDES OF EACH CATCHBASIN
- AND CATCHBASIN MANHOLE WITHIN PAVED AREAS. THE SUBDRAINS ARE TO BE LOCATED JUST BELOW SUBGRADE ELEVATION.
- 12. BUILDING FOOTINGS ARE TO BE STEPPED DOWN (SEE STRUCTURAL DRAWINGS) TO ALLOW SERVICES TO PASS THROUGH THE FOUNDATION WALL NOT UNDER THE FOOTING. 13. MANHOLES TO BE CONSTRUCTED OF PRE—CAST CONCRETE. ALL MANHOLES TO BE INSTALLED IN ACCORDANCE WITH THE ONTARIO PROVINCIAL STANDARDS (OPSD) DIVISION 700 DETAILS AND REQUIREMENTS, SEE LIST OF COMMON DETAILS.
- 14. ENSURE MINIMUM OF 1 ADJUSTMENT UNIT FOR ALL STRUCTURES. MAXIMUM TOTAL ADJUSTMENT UNITS HEIGHT: 300mm 15. RUNG SPACING IN MANHOLES TO BE 300mm MIN. AND A MAX. OF 600mm DISTANCE BETWEEN THE LID AND THE FIRST RUNG.
- 16. ALL WATERMAIN MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CURRENT MINISTRY OF THE ENVIRONMENT DESIGN GUIDELINES FOR DRINKING-WATER SYSTEMS.
- (REFER TO SOUTH HURON STANDARDS) 17. ÀLL WATERMAIN VALVES SHALL BE GÁTE VALVES MANUFACTURED TO AWWA C500 AND EPOXY COATED TO AWWA C550 AND ARE TO OPEN IN DIRECTION SPECIFIED BY
- THE MUNICIPALITY OF SOUTH HURON. 18. INSTALLATION, HYDROSTATIC TESTING, SWABBING, FLUSHING AND DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT DESIGN GUIDELINES FOR DRINKING-WATER SYSTEMS.
- 19. SEPARATION BETWEEN BURIED WSC & PDC AS PER M.O.E.E. GUIDELINES AND SECTION 7.3.5.7. OF THE O.B.C 20. WATER SERVICE TO BE PEX AND ALL WATER PIPE TO HAVE 12AWG TRACER WIRE INSTALLED ON ALL PVC WATERMAINS, VALVES, AND FIRE HYDRANTS. APPROVED TRACER WIRE FOR OPEN CUT INSTALLATION: "COPPERHEAD 1230-HS". WATERMAIN TO BE INSTALLED WITH 1.8m MIN. COVER. PEX WATER SERVICE REQUIRES BRASS FITTINGS. PROVIDE PIPE RESTRAINTS AS REQUIRED BY THE PIPE MANUFACTURER
- 21. WHEN CROSSING ABOVE A SANITARY/STORM SEWER THE CONTRACTOR IS TO ENSURE A MINIMUM 0.5m VERTICAL SEPARATION FROM THE UNDERSIDE OF THE WATER SERVICE TO THE TOP OF THE SEWER AS OUTLINED IN THE LATEST EDITION OF THE M.O.E. "DESIGN GUIDELINES FOR DRINKING-WATER SYSTEMS" AND INSULATE WATER SERVICE AS PER CLAUSE 7.3.5.7. 'FREEZE PROTECTION' OF THE LATEST EDITION OF THE ONTARIO BUILDING CODE, WHERE REQUIRED. 22. ALL SUBSTITUTIONS MUST BE APPROVED BYTHE APPLICABLE ENGINEER.

SEDIMENT & EROSION CONTROL MEASURES:

- PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION. SEDIMENT AND EROSION CONTROL MEASURES TO BE REMOVED AT COMPLETION OF PROJECT (FOLLOWING COMPLETION OF BASE ASPHALT AND SOD).
- ALL COLLECTED SEDIMENT TO BE DISPOSED OF AT AN APPROVED LOCATION.

MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION.

- MINIMIZE AREA DISTURBED DURING CONSTRUCTION. ALL DEWATERING TO BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN.
- PROTECT ALL CATCH BASINS, MANHOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE FABRIC (TERRAFIX 270 R), SILT SACKS, OR APPROVED EQUAL. KEEP ALL SUMPS CLEAN DURING CONSTRUCTION. PREVENT WIND-BLOWN DUST.
- STRAW BALES TO BE USED IN LOCALIZED AREAS AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR WORKS WHICH ARE IN OR ADJACENT TO FLOOD LINES, FILL LINES AND HAZARDOUS SLOPES. STRAW BALES TO BE TERMINATED BY ROUNDING BALES TO CONTAIN AND FILTER RUNOFF.
- OBTAIN APPROVAL FROM THE AUSABLE BAYFIELD CONSERVATION AUTHORITY (ABCA) PRIOR TO CONSTRUCTION FOR WORKS WHICH ARE IN, OR ADJACENT TO FLOOD LINES, FILL LINES AND HAZARDOUS SLOPES.
- 13. ALL SILT FENCING AND DETAILS ARE AT THE MINIMUM TO BE CONSTRUCTED IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES. ALL OF THE ABOVE NOTES AND ANY SEDIMENT & EROSION CONTROL MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

LIST OF STANDARD DETAILS:

<u>ONTARIO PROVINCIAL STANDARDS:</u> LIGHT-DUTY SILT FENCE BARRIER OPSD 310.010 CONCRETE SIDEWALK 310.020 CONCRETE SIDEWALK ADJACENT TO CURB AND GUTTER OPSD 310.039 CONCRETE SIDEWALK RAMPS TACTILE WALKING SURFACE INDICATORS COMPONENT 310.050 CONCRETE SIDEWALK DRIVEWAY ENTRANCE DETAIL URBAN INDUSTRIAL. COMMERCIAL. AND APARTMENT ENTRANCES CAST IRON. SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS. HERRING BONE OPENINGS OPSD 400.020

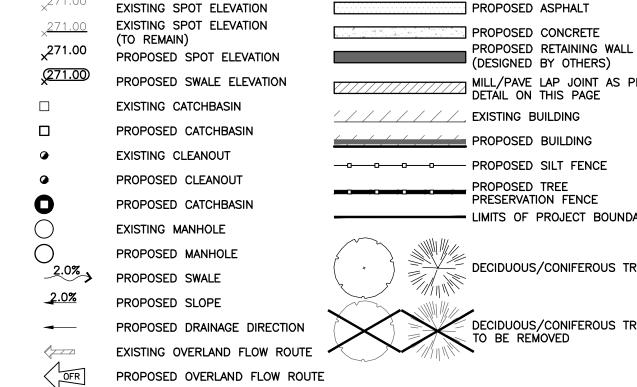
OPSD 401.010 CAST IRON, CIRCULAR FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES MAINTENANCE HOLE STEPS, HOLLOW OPSD 405.010 CONCRETE MOUNTABLE CURB WITH NARROW GUTTER OPSD 600.100 OPSD 600.110 CONCRETE BARRIER CURB OVER 600mm RADIUS MOUNTABLE BULLNOSE

PRECAST CONCRETE MAINTENANCE HOLE, 1200mm DIAMETER OPSD 701.010 MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS OPSD PRECAST CONCRETE CATCH BASIN, 600mmX600mm

PRECAST CONCRETE TWIN INLET CATCH BASIN, 600mmX1450mm CATCH BASIN CONNECTION, FLEXIBLE PIPE SEWER OPSD 708.030 OPSD 1006.010 SEWER SERVICE CONNECTIONS FOR MAIN PIPE SEWER

OPSD 1104.020 WATER SERVICE CONNECTION, 32, 38 AND 50mm DIAMETER SIZES CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS 1109.011

LEGEND:



PROPOSED SIGN 20.0-3006 ST 0 1.0% PROPOSED STORM SEWER 20.0-1500 SA @ 1.0% EXISTING SANITARY SEWER 20.0-150€ SA ● 1.0% PROPOSED SANITARY SEWER 150 PVC WSC EXISTING WATERMAIN 150 PVC WSC ___ PROPOSED WATERMAIN EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT EXISTING WATER VALVE PROPOSED WATER VALVE EXISTING WATER METER PROPOSED WATER METER PROPOSED CURB STOP PROPOSED RAMP TOP OF CURB BOTTOM OF CURB

BUILDING ENTRANCE

OVERHEAD DOOR

MILL/PAVE LAP JOINT AS PER - LIMITS OF PROJECT BOUNDARY DECIDUOUS/CONIFEROUS TREE DECIDUOUS/CONIFEROUS TREE

-RESTORATION OF GRASSED AREAS SEE RESTORATION NOTE 2 ON SHEET C1 FOR TO BE AS PER RESTORATION NOTE 2 ON SHEET C1 PAVEMENT COMPOSITION -NATIVE FILL ON PRIVATE PROPERTY UNDER LANDSCAPED -GRANULAR 'C' BACKFILL UNDER ASPH. & WITHIN AREAS, COMPACTED MUNICIPAL R.O.W., TO 95% SPMDD-COMPACTED TO 98% SPMDE LIMITS OF SAFE EXCAVATIONS: TYPE 1 & 2 SOILS: 1:1 TYPE 3 SOIL: TYPE 4 SOIL: 3:1 PROP. SEWER (SEE TYPE 1 BEDDING PLANS FOR SIZE) STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) REFERENCE: OPSD 802.010 - FLEXIBLE PIPE EMBEDMENT AND BACKFILL - EARTH EXCAVATION

N.T.S.

SEALANT NOTE: ALL OPENINGS AROUND

PERIMETER OF PLATE TO BE

5mm THICK S.S.

ORIFICE OPENING

FOUR (4) 6.5mm S.S.

50mm EMBEDMENT TYP.

SEALANT NOTE: ALL OPENINGS AROUND

PERIMETER OF PLATE TO BE

5mm THICK S.S.

ORIFICE OPENING

 $DIA. = 134 \text{mm}^{-1}$

FOUR (4) 6.5mm S.S.

50mm EMBEDMENT TYP.-

WEDGE ANCHORS + WASHERS. ENSURE

PLATE -

SEALED w/ COMPATIBLE SEALANT

WEDĠÉ ANCHORS +

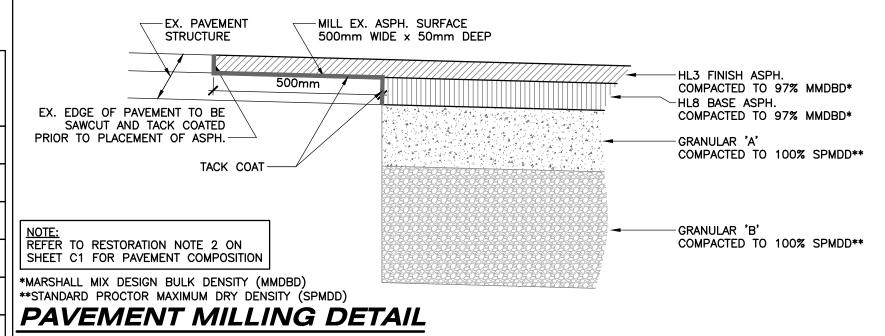
WASHERS. ENSURE

DIA. = 126mm $^-$

PLATE -

SEALED w/ COMPATIBLE SEALANT

LIST OF DRAWINGS SHEET C1 NOTES, LEGEND, AND DETAILS EXISTING CONDITIONS, REMOVALS, AND SEDIMENT & EROSION CONTROL PLAN SITE SERVICING PLAN SHEET C3 SHEET C4 SITE GRADING PLAN SHEET C5 STANDARD DETAILS OGS & STANDARD DETAILS



REFERENCE DOCUMENTS:

TOP OF GRATE

STMH 1

BEYOND -

ORIFICE PLATE PROFILE

INI FT

BEYOND -

ORIFICE PLATE PROFILE

0.6m SUMP TYP.

0.6m SUMP TYP.₩

TOP OF GRATE

ELEV. $= 267.45 \text{m}^{-1}$

ELEV. = 268.37 m

SECURE ORIFICE PLATE TO

(4) 6.5mm S.S. WEDGE

50mm EMBEDMENT TYP.

SECURE ORIFICE PLATE TO

(4) 6.5mm S.S. WEDGE

50mm EMBEDMENT TYP.

STRUCTURE WALL USING FOUR

ANCHORŠ + WASHERS. ENSURE

STRUCTURE WALL USING FOUR

ANCHORŠ + WASHERS. ENSURE

OUTLET PIPE

BEYOND -

ORIFICE PLATE

ELEVATION

ORIFICE #2 PLATE DETAIL

OUTLET PIPE

BEYOND -

ORIFICE PLATE

ELEVATION

ORIFICE #1 PLATE DETAIL

OPEN CUT/ TRENCH DETAIL

- SITE PLAN, BUILDING ELEVATIONS AND BUILDING FLOOR PLANS BY MATTER ARCHITECTURAL STUDIO INC. PROJECT No. 18-058 DATED AUGUST 27, 2018.
- TOPOGRAPHIC AND LEGAL SURVEY BY ARCHIBALD, GRAY & MCKAY LTD. FILE No. EX-NW-4-6 DATED AUGUST 30, 2018
- SITE SERVICING DESIGN BRIEF BY STRIK, BALDINELLI, MONIZ LTD. AS-BUILT INFORMATION RECEIVED VIA EMAIL SEPTEMBER 18 AND 20, 2018

T/O SWM PONDING

5mm THICK S.S

ORIFICE PLATE

OUTLET INVERT

ELEV. = 266.47

SEE SEALANT

-T/O SWM PONDING

5mm THICK S.S

ORIFICE PLATE

OUTLET INVERT

SEE SEALANT

ELEV. = 266.66

<u>FLOW</u>

ELEV. = 267.75m

FLO<u>W</u>

SUBJECT FXFTFR HAZELTON L

SITE BENCHMARK:

SITE BENCHMARK #1 MONUMENT TYPE: TOP OF SPINDLE LOCATION: HYDRANT ON WEST SIDE OF MAIN STREET NORTH ±30m NORTH OF INTERSECTION WITH THAMES ROAD

LOCATION: HYDRANT ON SOUTHWEST CORNER

OF THAMES RD W AND MCCONNELL

GEODETIC ELEVATION: 269.74 SITE BENCHMARK # MONUMENT TYPE: TOP OF SPINDLE

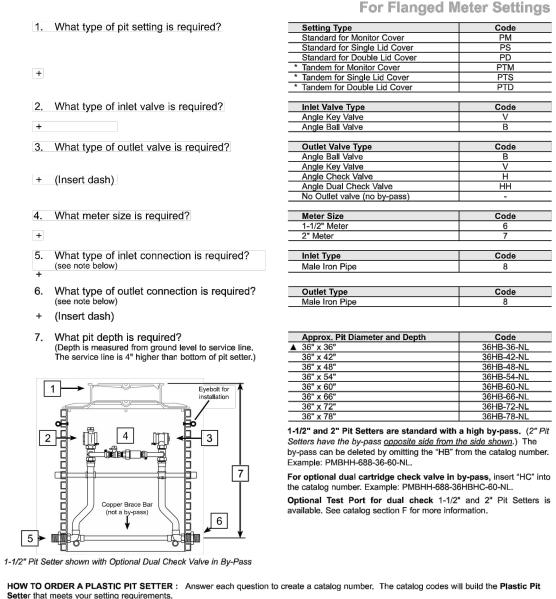
ST INTERSECTION GEODETIC ELEVATION: 267.55

KEY PLAN

LEGAL INFORMATION

LOTS 927, 928, 929 & 931 AND PART OF LOTS 926 & 930 REGISTERED PLAN No. 376 (TOWN OF EXETER) MUNICIPALITY OF SOUTH HURON COUNTY OF HURON

Plastic Pit Setters for 11/2" and 2" Meters

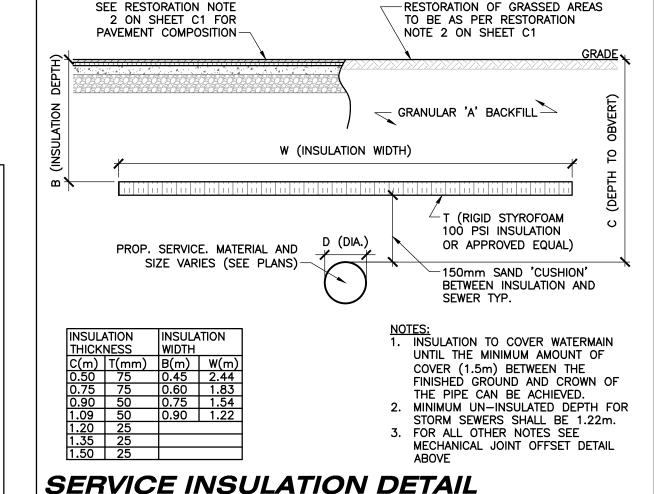


PART NUMBER EXAMPLE: MBHH-688-36HB-60-NL = a standard monitor cover style plastic pit setter with an inlet angle ball valve, outlet angle dual check valve, 1-1/2" meter, inlet connection for male iron pipe, outlet connection for male iron pipe, high by-pass and a pit diameter and depth of 36"x 60". * Meter Flange S-Tube is supplied. Provide PRV length and connection type with order. PRV Adapters are sold separately.

▲ 36" depth not available on 2" Tandem Meter Setters with High By-pass. Note: Inlet and outlet connections are 1-1/2" in size, for 1-1/2" meter settings, 2" for 2" meters. Meter spacing is 13" for 1-1/2" meters and 17" for 2" meters.

Female iron pipe by Pack Joint couplings are used to provide PET, PEP or PVC inlet/outlet combinations (see catalog section J) and are

Extension rings are priced separately in catalog section D.

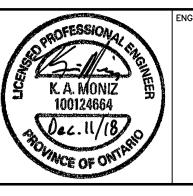


AS CONSTRUCTED SERVICES 11/10/18 1 ISSUED FOR CLIENT REVIEW 2 ISSUED FOR SITE PLAN APPROVAL 15/10/18 | JSF 3 ISSUED FOR SITE PLAN APPROVAL No.2 11/12/18 | JSF APPROVED RM/KAM DATE 06/12/2018 cad 18 - 1972



Tel: (519) 471-6667 Fax: (519) 471-0034

Email: sbm@sbmltd.ca





COPIA DEVELOPMENTS 11-1673 RICHMOND ST N, SUITE 244, LONDON, ON N6G 2N3 P: 519.435.6439

E: AHOIS@ROGERS.COM

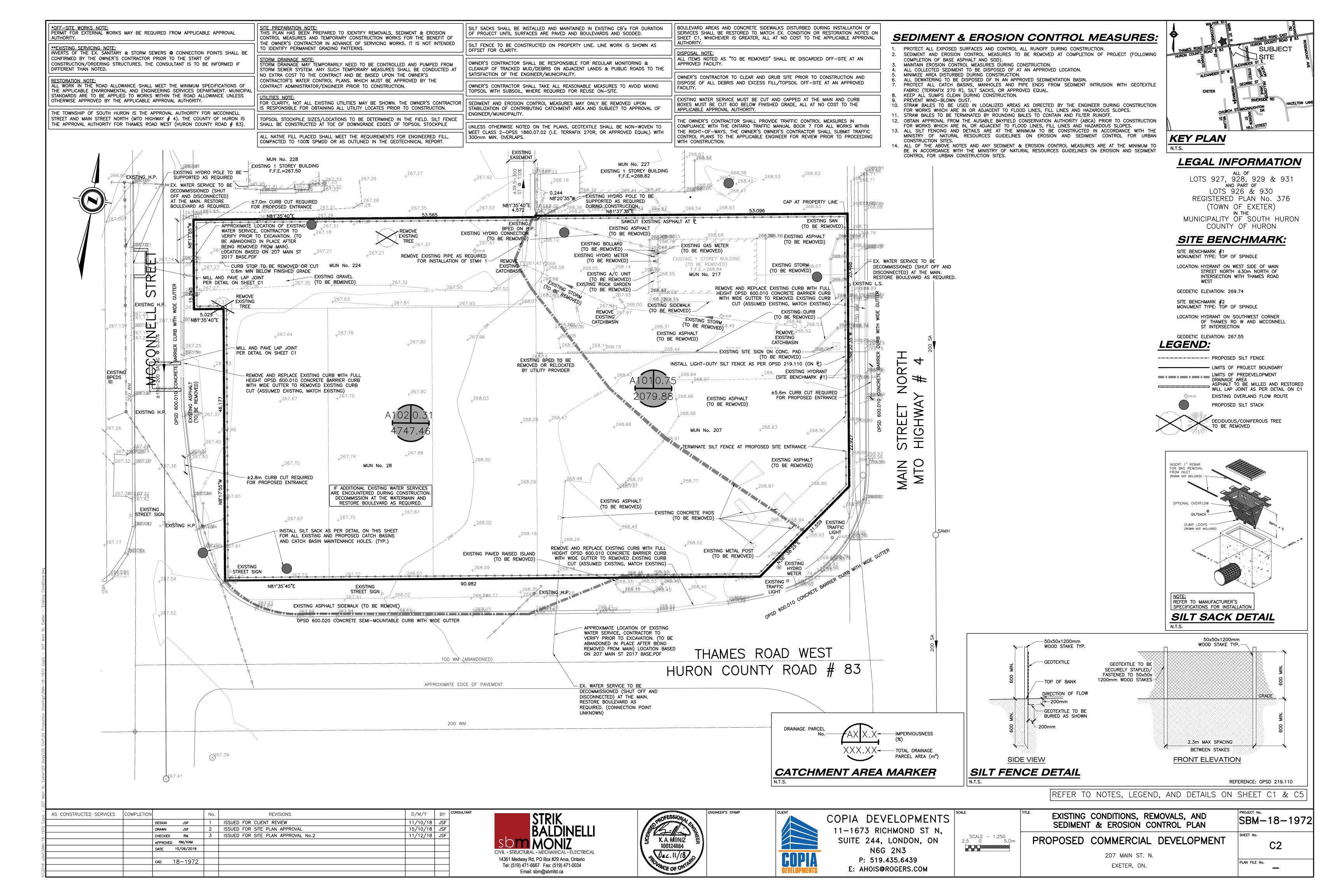
PROPOSED COMMERCIAL DEVELOPMENT

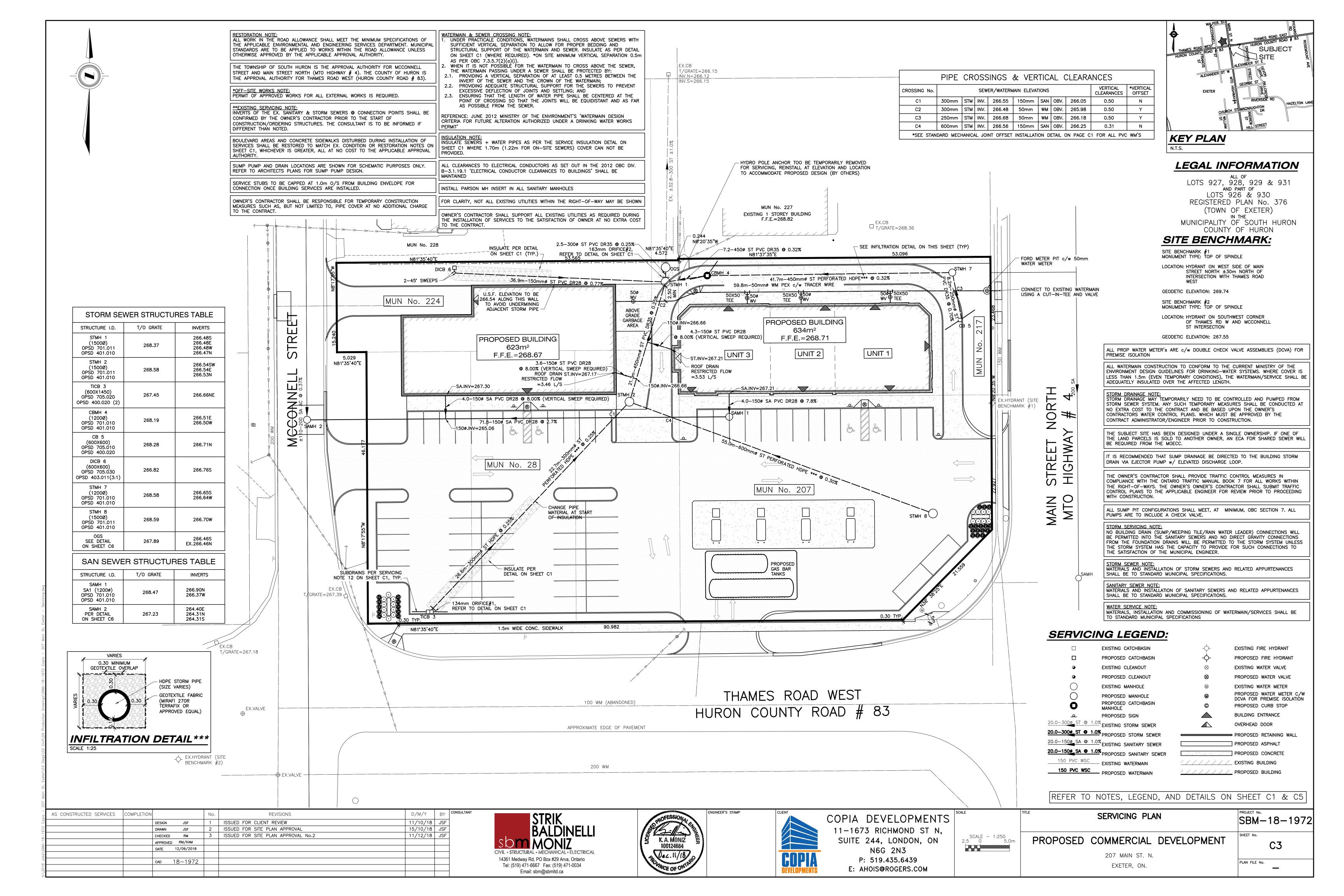
207 MAIN ST. N. EXETER, ON.

NOTES, LEGEND, AND DETAILS

PLAN FILE No.

SBM-18-1972





GRADING CERTIFICATE:

(MATCH)

T/GRATE=267.89

T/GRATE=268.37

DETAIL B

268.66TC 268.56BC

DETAIL A

T/GRATE=268.58

268.17

(MATCH)

DROPPED CURB FOR

GARBAGE ACCESS

68.71 MAX PONDING

ELEVATION=268.46

SCALE

236886764

PONDING ELEVATION

←T/GRATE=268.28

268.10268.07 + 268.06

I HEREBY CERTIFY THAT THE PROPOSED GRADING AND APPURTENANT DRAINAGE WORKS COMPLY WITH SOUND ENGINEERING DESIGN AND THAT THE PROPOSED GRADING IS

(MATCH) #

₊267.52

(MATCH)

MATCH INTO EXISTING

BACK OF CURB

∰(MATCH)

MUN No. 228

.c-N81°35'40"F

 $^-$ (MATCH) $^+$

EXISTING 1 STOREY BUILDING

F.F.E. = 267.50

T/INLET=266.82

T/GRATE=267.11

267.29

(MATCH)

COMPATIBLE WITH EXISTING DRAINAGE PATTERNS ON AND ACROSS THESE LANDS AND THE ADJOINING LANDS OR APPLICABLE MUNICIPAL BY-LAWS.

RESTORATION NOTE:
ALL WORK IN THE ROAD ALLOWANCE SHALL MEET THE MINIMUM SPECIFICATIONS OF THE APPLICABLE ENVIRONMENTAL AND ENGINEERING SERVICES DEPARTMENT. MUNICIPAL STANDARDS ARE TO BE APPLIED TO WORKS WITHIN THE ROAD ALLOWANCE UNLESS OTHERWISE APPROVED BY THE APPLICABLE APPROVAL AUTHORITY

ALL CLEARANCES TO ELECTRICAL CONDUCTORS AS SET OUT IN THE 2012 OBC DIV. B-3.1.19.1 'ELECTRICAL CONDUCTOR CLEARANCES TO BUILDINGS' SHALL BE MAINTAINED

THE OWNER'S CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN COMPLIANCE WITH THE ONTARIO TRAFFIC MANUAL BOOK 7 FOR ALL WORKS WITHIN THE RIGHT-OF-WAYS. THE OWNER'S OWNER'S CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE APPLICABLE ENGINEER FOR REVIEW PRIOR TO PROCEEDING

<u>---</u> +18°20'35"₩./-

N81°35'40"E 267.73 268.17

ORIFICE#2,+ SEE SHEET C3 -

T/GRATE=267.89

268.15

(MATCH)

APPROXIMATE EDGE OF PAVEMENT

267.52

(MATCH)

T/GRATE = 268.37

NOTE: MATCH EXISTING ELEVATIONS AT PROPERTY LINES

267.35 267.35

(MATCH)

*OFF-SITE WORKS NOTE:
PERMIT OF APPROVED WORKS FOR ALL EXTERNAL WORKS IS REQUIRED

MUN No. 227

EXISTING 1 STOREY BUILDING

MAX PONDING

4 (MATCH):4

ELEVATION=268.33 268.44

F.F.E.=268.82

<T/GRATE=268.19

) (MATCH) 6N81°37'/35"E

268.37TC 268.46TC 268.31BC 1.0% 268.41BC 268.37TC 268.28 OPSD 600.110 268.38 268.22BC 268.46TC BARRIER CURB 268.56TC

THE TOWNSHIP OF SOUTH HURON IS THE APPROVAL AUTHORITY FOR MCCONNELL STREET AND MAIN STREET NORTH (MTO HIGHWAY # 4). THE COUNTY OF HURON IS THE APPROVAL AUTHORITY FOR THAMES ROAD WEST (HURON COUNTY ROAD # 83).

☐ T+GRATE=268.36

268.53BC

54 (MATCH)^{268.63}

268,61BC

(Sept 160)

1.0%

FOR GRADING ON ADJACENT LANDS, IF REQUIRED, DEVELOPER SHALL OBTAIN WRITTEN APPROVAL FROM ADJACENT LAND OWNER.

BOULEVARD AREAS AND CONCRETE SIDEWALKS DISTURBED DURING INSTALLATION OF SERVICES SHALL BE RESTORED TO MATCH EX. CONDITION OR RESTORATION NOTES ON SHEET C1, WHICHEVER IS GREATER, ALL AT NO COST TO THE APPLICABLE APPROVAL AUTHORITY.

268.61

53.096 (MATCH) (MATCH)

₊268.63

268.63

100YR PONDING

ELEV=268.50

DEPTH=0.22m

AREA=86.69m²

VOLUME=6.4m3

268.72

(MATCH)

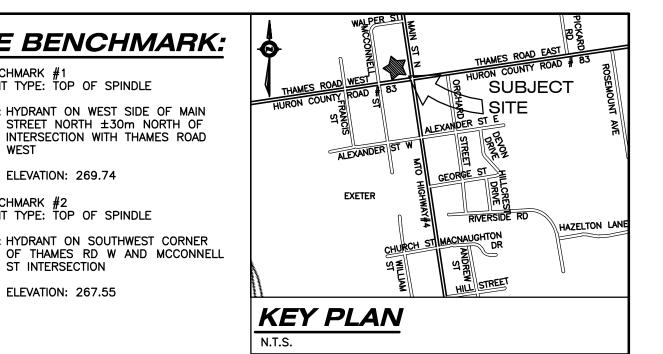
SITE BENCHMARK:

SITE BENCHMARK #1 MONUMENT TYPE: TOP OF SPINDLE LOCATION: HYDRANT ON WEST SIDE OF MAIN STREET NORTH ±30m NORTH OF INTERSECTION WITH THAMES ROAD

GEODETIC ELEVATION: 269.74

SITE BENCHMARK #2 MONUMENT TYPE: TOP OF SPINDLE LOCATION: HYDRANT ON SOUTHWEST CORNER

ST INTERSECTION GEODETIC ELEVATION: 267.55



LEGAL INFORMATION

LOTS 927, 928, 929 & 931 AND PART OF LOTS 926 & 930 REGISTERED PLAN No. 376 (TOWN OF EXETER)

MUNICIPALITY OF SOUTH HURON COUNTY OF HURON

GRADING NOTES:

EXISTING GRADES AND DRAINAGE OF ABUTTING LANDS IS NOT TO BE DISTURBED. GROUND ELEVATIONS AT BUILDINGS ABUTTING OVERLAND FLOW ROUTES ARE TO BE 225 ABOVE OVERLAND FLOW ROUTE ELEVATIONS. 3. GROUND ELEVATIONS AT BUILDING OPENING ABUTTING OVERLAND FLOW ROUTES ARE TO TO BE 450mm ABOVE OVERLAND FLOW ROUTE ELEVATIONS.

4. A MINIMUM OF 150mm (6") FROM THE TOP OF FOUNDATION TO THE FINISHED GRADE OUTSIDE THE BUILDING MUST BE PROVIDED, TYPICAL. 5. RETAINING WALLS, 1000MM OR GREATER, & GUARD RAILS ON TOP (IF REQUIRED) ARE TO BE DESIGNED BY AND CONSTRUCTED TO THE SPECIFICATIONS OF A REGISTERED PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

THE MIN. TOP OF FOUNDATION ELEVATION, UNDERSIDE OF FOOTING ELEVATION, ETC. ARE TO BE CONFIRMED BY THE CONTRACTOR IN CONSULTATION WITH THE BUILDING DESIGNER, BASED ON THE FINISHED FLOOR ELEVATION PROVIDED. CONTACT STRIK, BALDINELLI, MONIZ LTD. (SBM) FOR CLARIFICATION, IF REQUIRED.

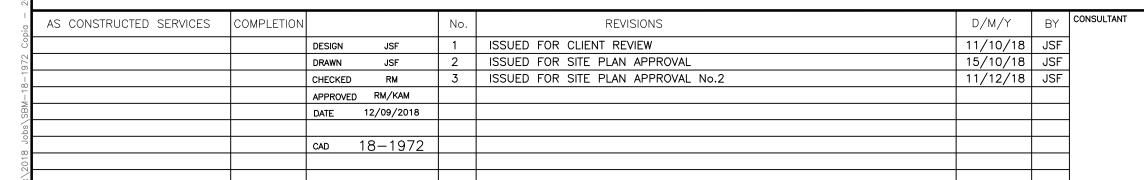
TO PROPERTY LINE) GRADING LEGEND:

EXISTING SPOT ELEVATION EXISTING SPOT ELEVATION (TO REMAIN) PROPOSED SPOT ELEVATION PROPOSED SWALE ELEVATION EXISTING CATCHBASIN PROPOSED CATCHBASIN PROPOSED CATCHBASIN MANHOLE EXISTING MANHOLE PROPOSED MANHOLE PROPOSED SWALE PROPOSED SLOPE PROPOSED DRAINAGE DIRECTION EXISTING OVERLAND FLOW ROUTE PROPOSED OVERLAND FLOW ROUTE EXISTING FIRE HYDRANT PROPOSED FIRE HYDRANT EXISTING WATER VALVE PROPOSED WATER VALVE EXISTING WATER METER PROPOSED WATER METER PROPOSED CURB STOP PROPOSED RAMP (SEE SITE PLAN FOR DETAIL) TOP OF CURB BOTTOM OF CURB GRADE AT TOP OF WALL GRADE AT BOTTOM OF WALL BUILDING ENTRANCE OVERHEAD DOOR PROPOSED ASPHALT PROPOSED CONCRETE

_ PROPOSED BUILDING

PROPOSED CATCHMENT BOUNDARY

REFER TO NOTES, LEGEND, AND DETAILS ON SHEET C1 & C5





268.01

THAMES ROAD WEST

HURON COUNTY ROAD # 83

NOTE: MATCH EXISTING ELEVATIONS AT BACK OF CURB





OPSD 600.100 MOUNTABLE

MATCH INTO EXISTING CURB WITH NARROW GUTTER

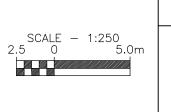
- IMPERVIOUSNESS

- TOTAL DRAINAGE

PARCEL AREA (m²)

COPIA DEVELOPMENTS 11-1673 RICHMOND ST N, SUITE 244, LONDON, ON N6G 2N3 P: 519.435.6439

E: AHOIS@ROGERS.COM



AS REQ'D

-3:1(33%) MAX. SLOPE

150 MIN. TYP. DEPTH230 MIN. OFR DEPTH ADJ.TO SUPER STRUCTURE

AS REQ'D

TYP. SWALE DETAIL

RESTORE GRASSED AREAS

w/ 100mm TOPSOIL AND NURSERY SOD TYP.-

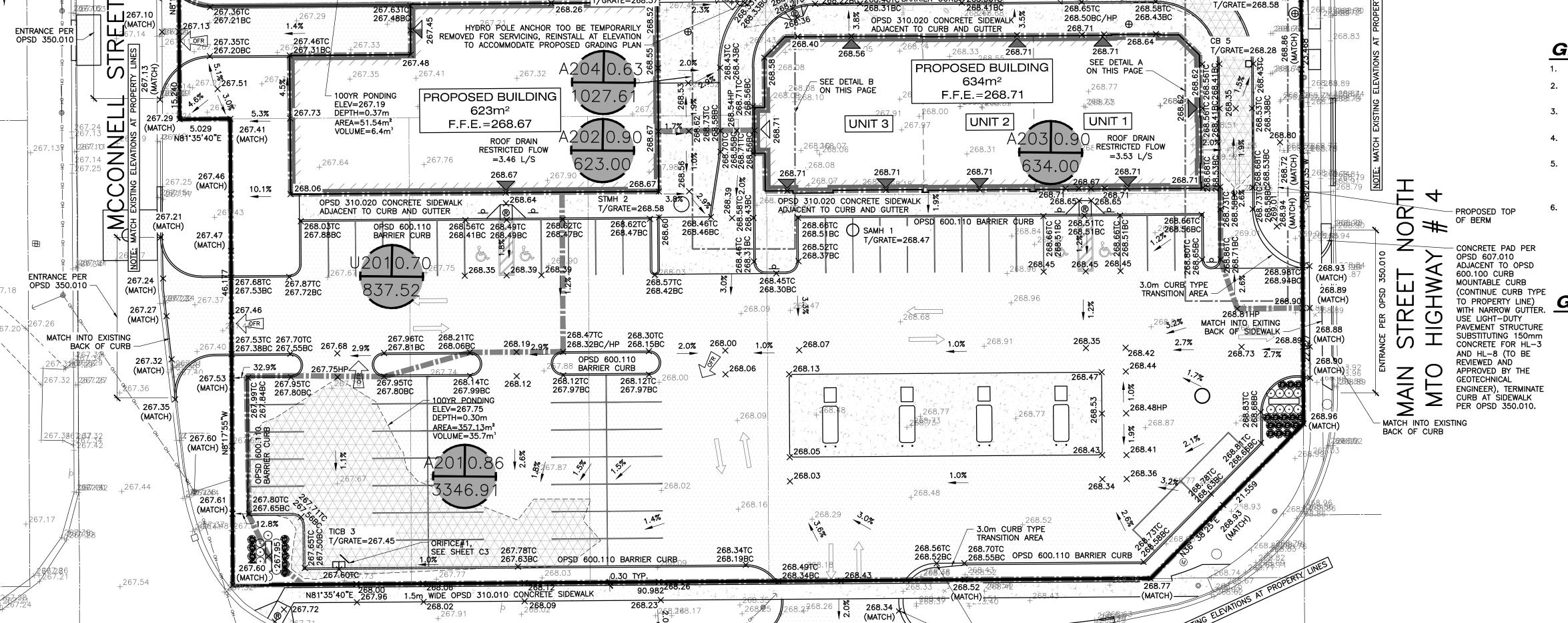
SITE GRADING PLAN

EXETER, ON.

C4 PLAN FILE No.

SBM-18-1972

PROPOSED COMMERCIAL DEVELOPMENT 207 MAIN ST. N.

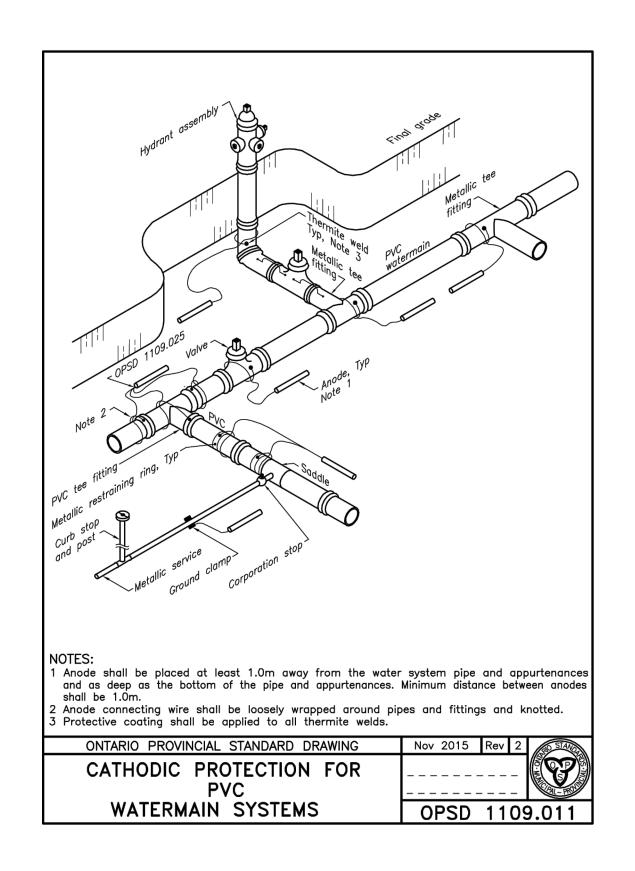


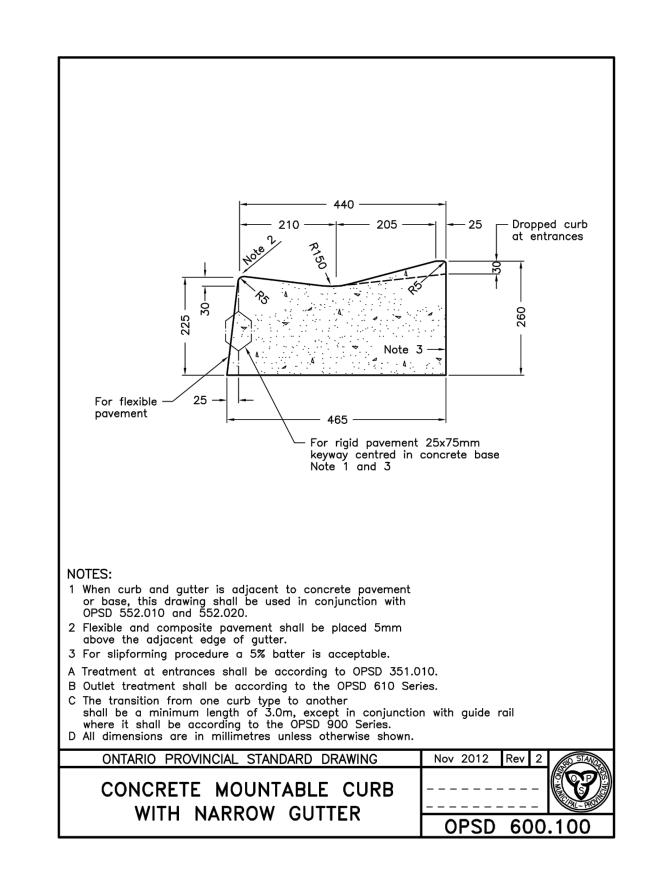
(MATCH)

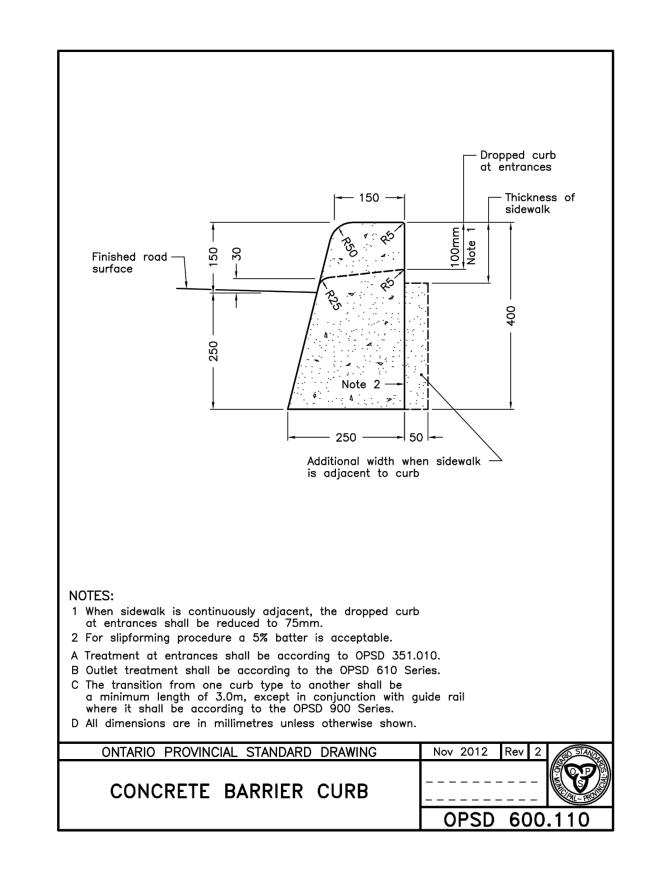
ENTRANCE PER OPSD 350.010 BACK OF CURB

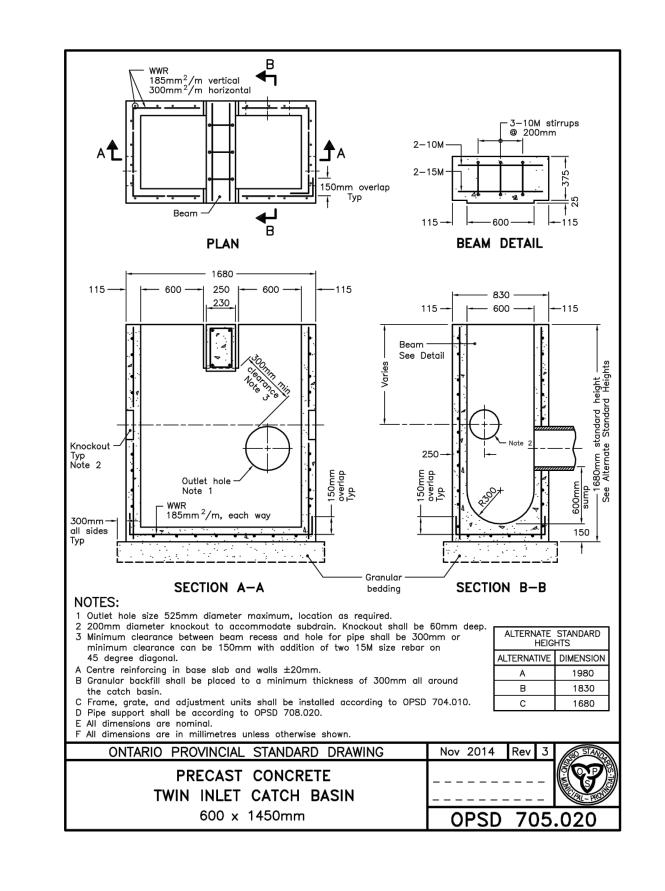
CATCHMENT AREA MARKER

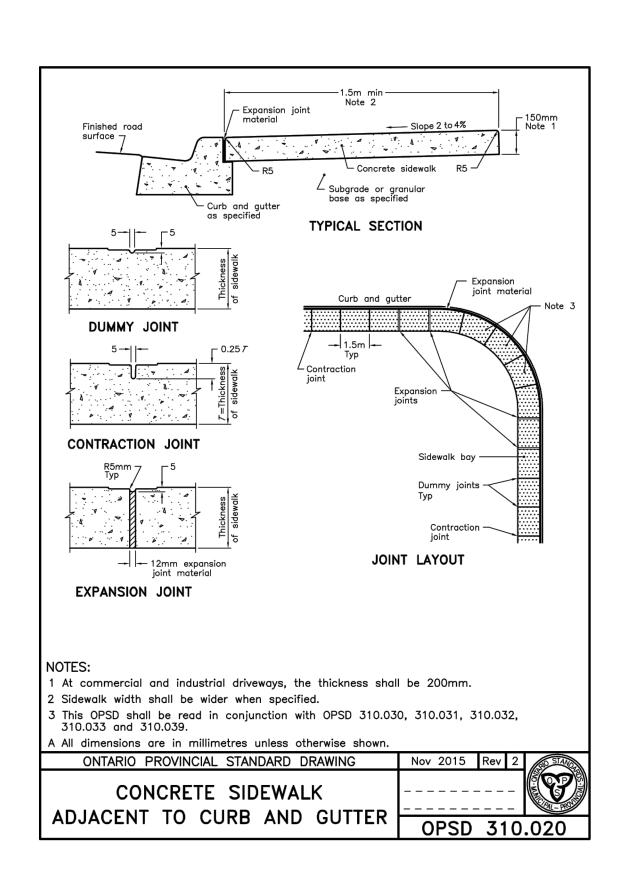
(MATCH)

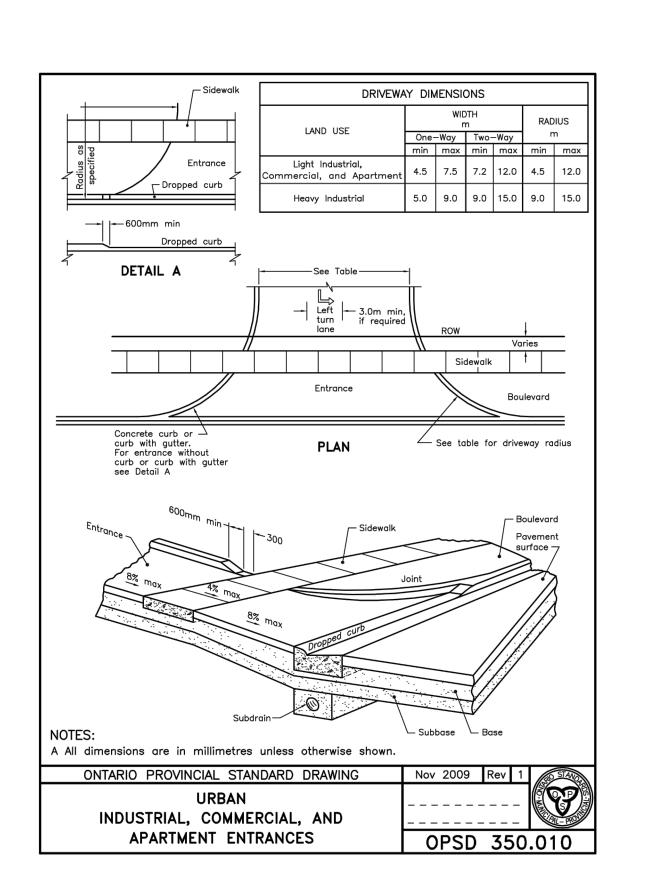


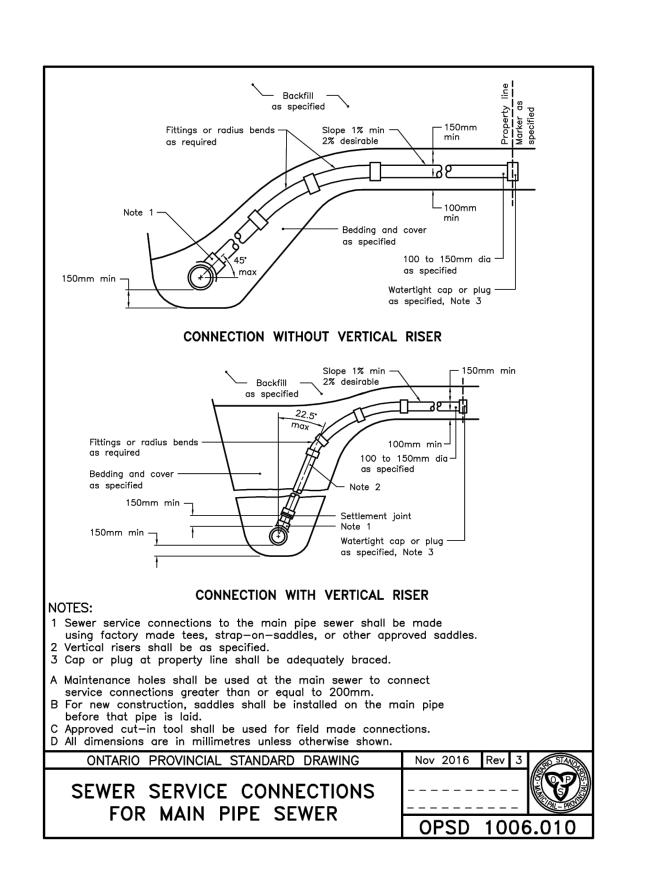


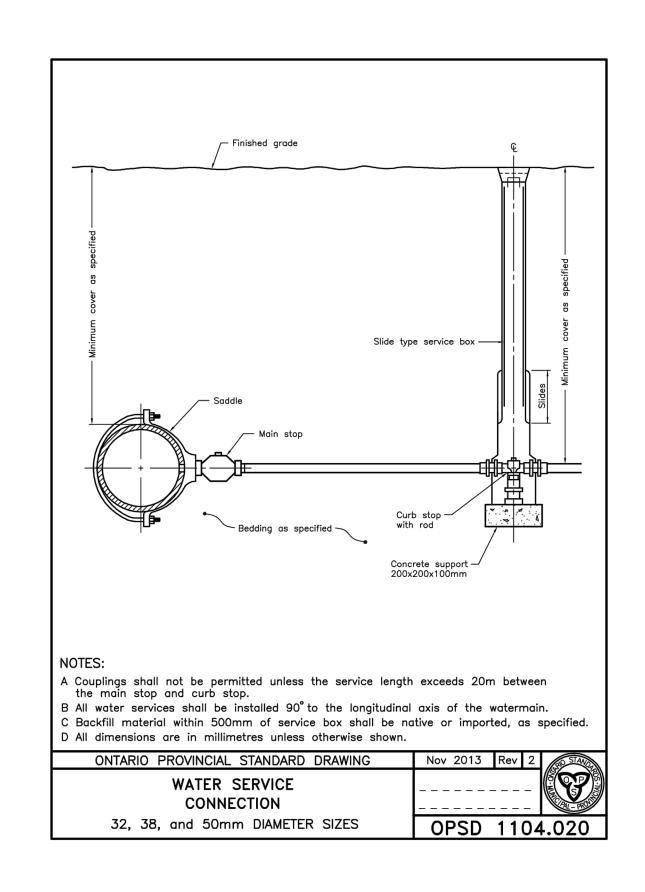






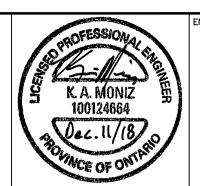






AS CONSTRUCTED SERVICES	COMPLETION			No.	REVISIONS	D/M/Y	BY	CONSU
		DESIGN	JSF	1	ISSUED FOR CLIENT REVIEW	11/10/18	JSF]
		DRAWN	JSF	2	ISSUED FOR SITE PLAN APPROVAL	15/10/18	JSF	
		CHECKED	RM	3	ISSUED FOR SITE PLAN APPROVAL No.2	11/12/18	JSF	
		APPROVED	RM/KAM					
		DATE	06/12/2018					
		CAD	18-1972					







COPIA DEVELOPMENTS

11-1673 RICHMOND ST N,

SUITE 244, LONDON, ON

N6G 2N3

P: 519.435.6439

E: AHOIS@ROGERS.COM

STANDARD DETAILS

PROPOSED COMMERCIAL DEVELOPMENT

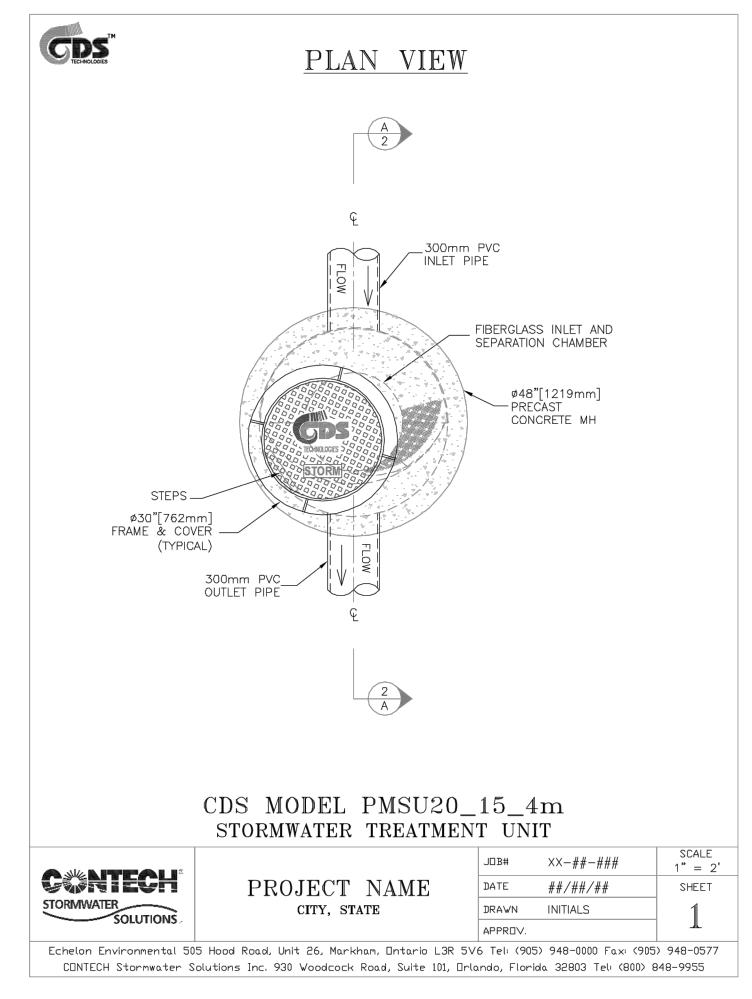
207 MAIN ST. N.

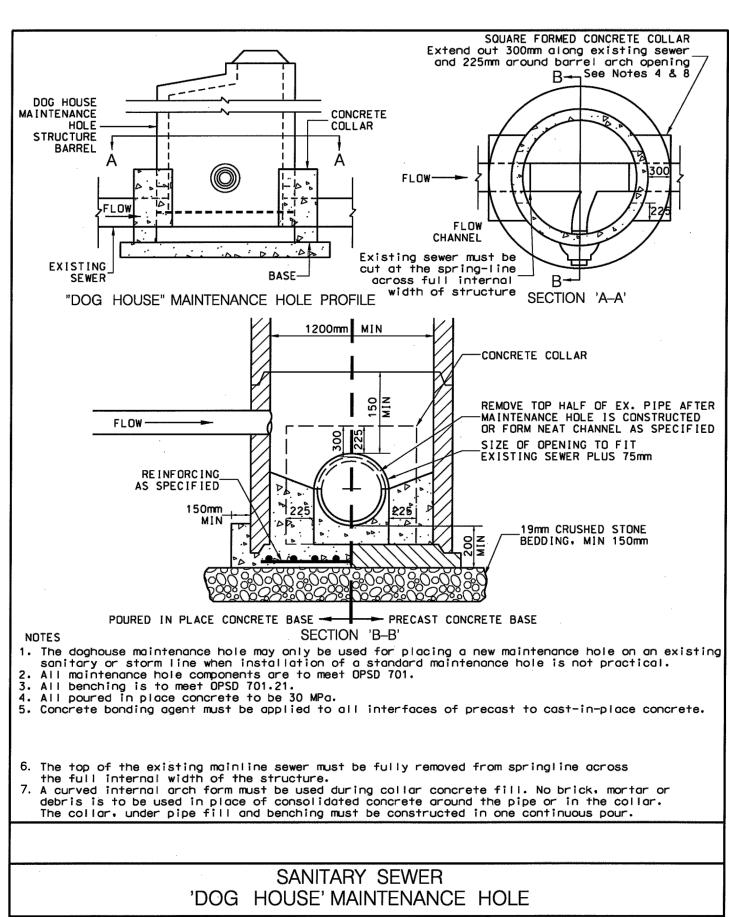
EXETER, ON.

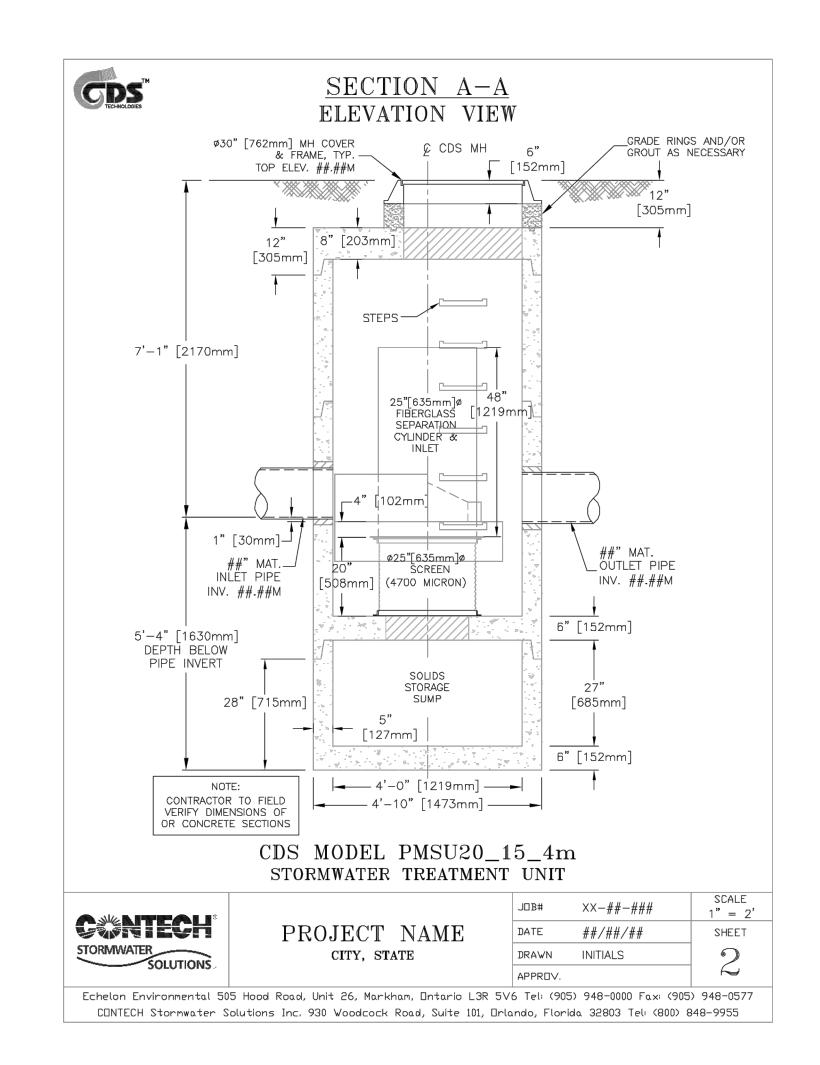
SHEET No.

PLAN FILE No.

SBM-18-1972







Project Name:	207 Main Stre	et	Engineer, Strik Baldinalli Monis						
Location:	croject Name: 207 Main Street cocation: Exeter, ON			Engineer: Strik Baldinelli Moniz Contact: Ryan Maguire					
OGS #:	OGS			Report Date:					
Area Weighted C CDS Model	0.56 0.83 2015-4	ha		Rainfall Statio Particle Size I CDS Treatmer	Distribution	195 FINE 20	l/s		
Rainfall Intensity ¹ (mm/hr)	Percent Rainfall Volume ¹	Cumulative Rainfall Volume	Total Flowrate (I/s)	<u>Treated</u> <u>Flowrate (I/s)</u>	Operating Rate (%)	Removal Efficiency (%)	Increme Removal		
1.0	10.3%	20.1%	1.3	1.3	6.5	97.0	10.0		
1.5	9.7%	29.7%	1.9	1.9	9.8	96.1	9.3		
2.0	8.9%	38.6%	2.6	2.6	13.0	95.1	8.4		
2.5	7.7%	46.2%	3.2	3.2	16.3	94.2	7.2		
3.0	6.5%	52.7%	3.9	3.9	19.6	93.3	6.0		
3.5	4.2%	56.9%	4.5	4.5	22.8	92.3	3.9		
4.0	4.7%	61.6%	5.2	5.2	26.1	91.4	4.3		
4.5	3.9%	65.4%	5.8	5.8	29.3	90.4	3.5		
5.0	3.4%	68.8%	6.5	6.5	32.6	89.5	3.0		
6.0	4.7%	73.6%	7.8	7.8	39.1	87.6	4.2		
7.0	4.6%	78.2%	9.0	9.0	45.6	85.8	3.9		
8.0	3.5%	81.7%	10.3	10.3	52.1	83.9	3.0		
9.0	2.3%	84.0%	11.6	11.6	58.7	82.0	1.9		
10.0	2.6%	86.6%	12.9	12.9	65.2	80.2	2.1		
15.0	6.7%	93.3%	19.4	19.4	97.8	70.8	4.8		
20.0	2.7%	96.0%	25.8	19.8	100.0	53.8	1.4		
25.0	1.7%	97.7%	32.3	19.8	100.0	43.1	0.8		
30.0 35.0	1.3% 0.6%	99.0% 99.6%	38.8 45.2	19.8 19.8	100.0 100.0	35.9 30.8	0.5		
40.0	0.6%	99.6%	45.2 51.7	19.8	100.0	26.9	0.2		
45.0		99.8%	51.7	19.8	100.0	26.9	0.1		
50.0	0.0%	100.0%	64.6	19.8	100.0	23.9	0.0		
50.0	U.Z 70	100.0%	04.0	19.0	100.0	21.0	87.9		

20	AS CONSTRUCTED SERVICES	COMPLETION			No.	REVISIONS	D/M/Y	BY	CONSULT
3			DESIGN	JSF	1	ISSUED FOR CLIENT REVIEW	11/10/18	JSF	
7/0			DRAWN	JSF	2	ISSUED FOR SITE PLAN APPROVAL	15/10/18	JSF	
-			CHECKED	RM	3	ISSUED FOR SITE PLAN APPROVAL No.2	11/12/18	JSF	
			APPROVED	RM/KAM					
200			DATE	06/12/2018					
200									
20	·		CAD	18-1972					
_								ı —	







COPIA DEVELOPMENTS 11-1673 RICHMOND ST N, SUITE 244, LONDON, ON N6G 2N3 P: 519.435.6439

E: AHOIS@ROGERS.COM

OGS & STANDARD DETAILS

SBM-18-1972 PROPOSED COMMERCIAL DEVELOPMENT

> 207 MAIN ST. N. EXETER, ON.

PLAN FILE No.