

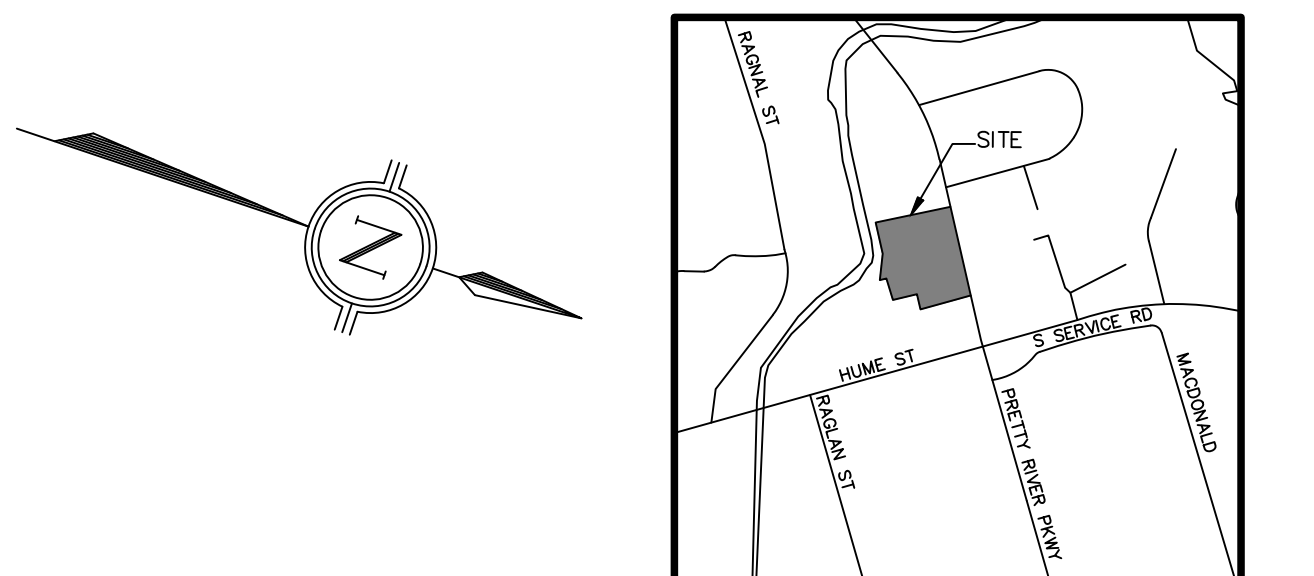
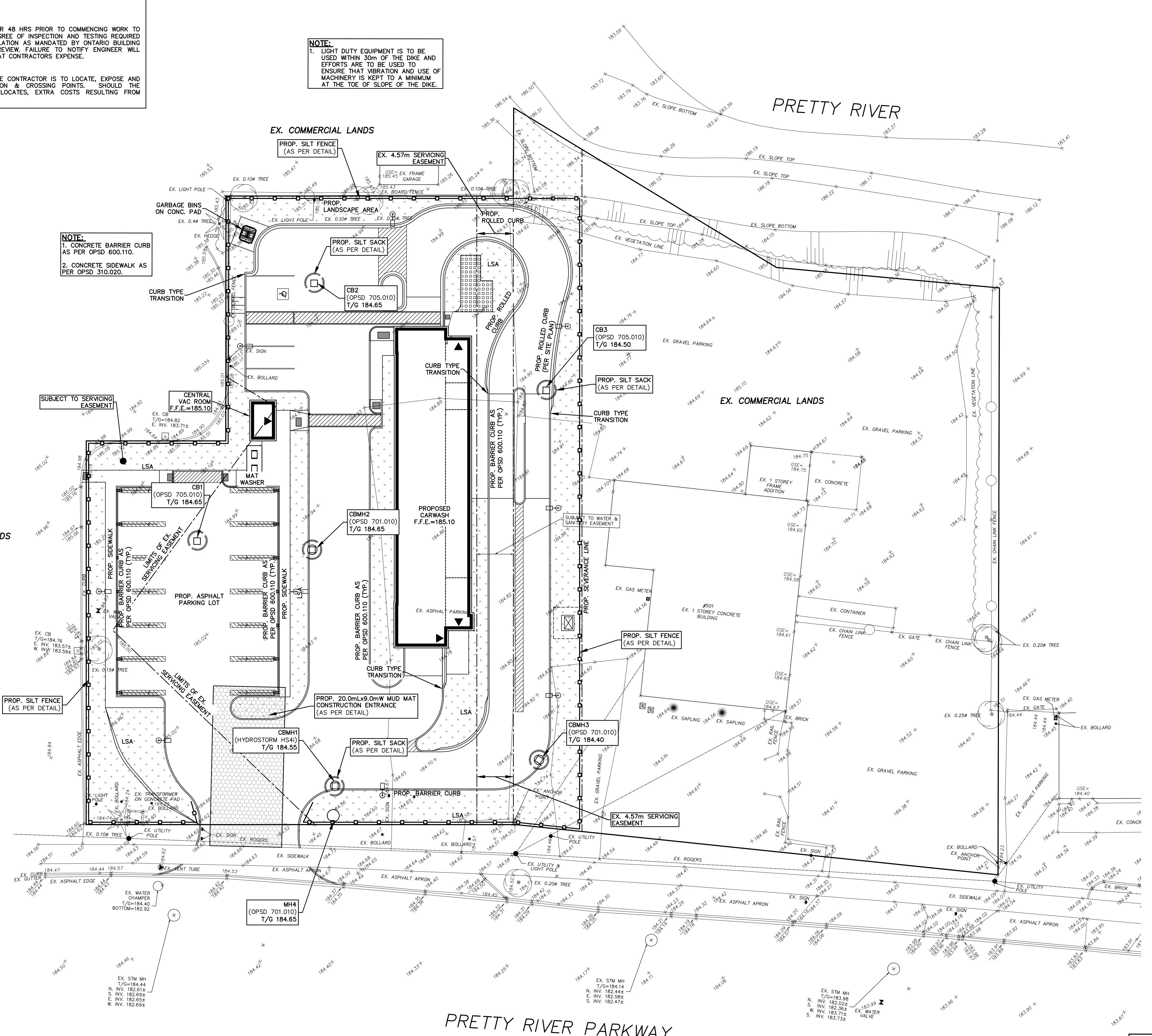
NOTES TO CONTRACTOR:

1. **INSPECTION**
 CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2. GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.

2. **CONFIRMATION OF EXISTING INVERTS**
 72 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO LOCATE, EXPOSE AND VERIFY INVERTS OF EXISTING SEWERS AT CONNECTION & CROSSING POINTS. SHOULD THE CONTRACTOR PROCEED WITHOUT COMPLETING THESE LOCATES, EXTRA COSTS RESULTING FROM DELAYS AND STANDBY TIME WILL NOT BE CONSIDERED.

NOTE:
 1. LIGHT DUTY EQUIPMENT IS TO BE USED WITHIN 30m OF THE DIKE AND EFFORTS ARE TO BE USED TO ENSURE THAT VIBRATION AND USE OF MACHINERY IS KEPT TO A MINIMUM AT THE TOE OF SLOPE OF THE DIKE.

NOTE:
 1. CONCRETE BARRIER CURB AS PER OPSD 600.110.
 2. CONCRETE SIDEWALK AS PER OPSD 310.020.



LEGEND:

- EXISTING GROUND ELEVATION
- EXISTING CATCHBASIN
- EXISTING STORM/SANITARY MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED STORM/SANITARY MANHOLE
- PROPOSED CATCHBASIN SILT SACK
- PROPOSED SILTATION CONTROL FENCE
- ▬ (TOP) 3:1 (BOTTOM) MAX EMBANKMENT
- ▬ PROPOSED ROLLED CURB
- ▬ PROPOSED ROLLED CURB

BENCH MARK NOTE:
 ELEVATIONS ARE GEODETIC AND REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD28) BY DIRECT MEASUREMENT TO A REAL TIME NETWORK.

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08	MAR 12/25	MC	NOTES ADDED FOR SANITARY SERVICE
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- THE POSITIONS OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVER-GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS, WHERE SHOWN ON THE DRAWING, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REVISED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

DESIGN	MC	CHK'D	SF	DATE
DRAWN	FG	CHK'D	SF	Dec. 10, 24

SCALE: 1:250

APPROVALS

STAMP
 LICENSED PROFESSIONAL ENGINEER
 S.V. FRANKOWICH
 12/03/25
 PROVINCE OF ONTARIO

S. LLEWELLYN & ASSOCIATES LIMITED
 CONSULTING ENGINEERS
 Tel. (905) 631-6978
 Website: www.sla.on.ca
 email: info@sla.on.ca
 3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

CLIENT
 BICORP DESIGN GROUP
 1235 FAIRVIEW STREET, SUIT 290
 BURLINGTON, ONTARIO

PROJECT NAME
 REVIVE CAR WASH
 298 PRETTY RIVER PARKWAY
 TOWN OF COLLINGWOOD, ONTARIO

TITLE
 EROSION & SEDIMENT CONTROL PLAN

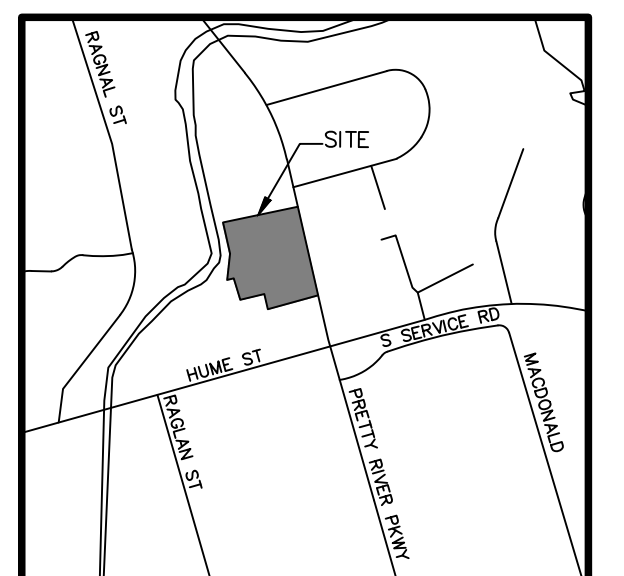
PROJECT No.	23011	DRAWING No.	C100
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NOTE:
 1. CONCRETE BARRIER CURB AS PER OPSD 600.110.
 2. CONCRETE SIDEWALK AS PER OPSD 310.020.



LEGEND:

- EXISTING GROUND ELEVATION
- PROPOSED GROUND ELEVATION
- PROPOSED ELEVATION TO MATCH EXISTING
- PROPOSED DIRECTION OF SHEET FLOW
- EXISTING CATCHBASIN
- EXISTING STORM/SANITARY MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED STORM/SANITARY MANHOLE
- PROPOSED CURB STOP/GATE VALVE
- EXISTING DIRECTION OF DRAINAGE
- PROPOSED OVERLAND FLOW ROUTE
- PROPOSED CATCHBASIN SILT SACK
- PROPOSED SILTATION CONTROL FENCE
- EMBANKMENT
- PROPOSED ROLLED CURB
- PROPOSED ROLLED CURB

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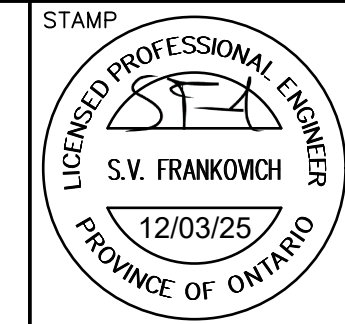
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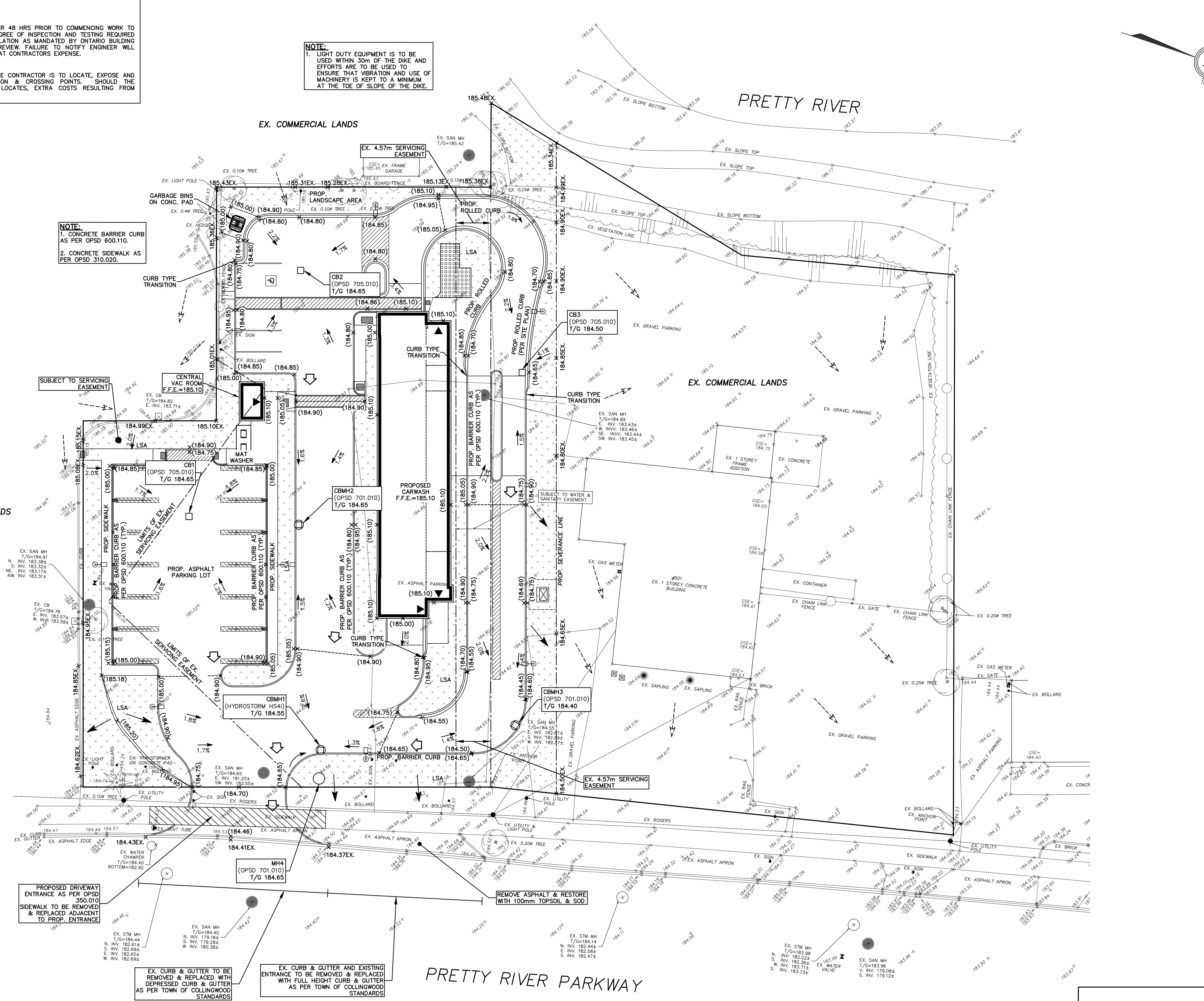
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CLIENT
 BICORP DESIGN GROUP
 1235 FAIRVIEW STREET, SUIT 290
 BURLINGTON, ONTARIO

PROJECT NAME
 REVIVE CAR WASH
 298 PRETTY RIVER PARKWAY
 TOWN OF COLLINGWOOD, ONTARIO

TITLE
 SITE GRADING PLAN

PROJECT No.	23011	DRAWING No.	C101
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NOTE:
 1. CONCRETE BARRIER CURB AS PER OPD 600.110.
 2. CONCRETE SIDEWALK AS PER OPD 310.020.

NOTE:
 1. EXISTING UNUSED SERVICES ARE TO BE ABANDONED AS PER THE TOWN OF COLLINGWOOD STANDARDS.
 2. CONTRACTOR TO CONFIRM WATER SERVICES MATERIAL WITH THE TOWN OF COLLINGWOOD PRIOR TO CONSTRUCTION.
 3. CONTRACTOR IS TO CONFIRM EXISTING SANITARY SERVICE INVERTS.
 4. CONTRACTOR IS TO CCTV EXISTING SANITARY SERVICE TO CONFIRM CONDITION FOR REUSE.

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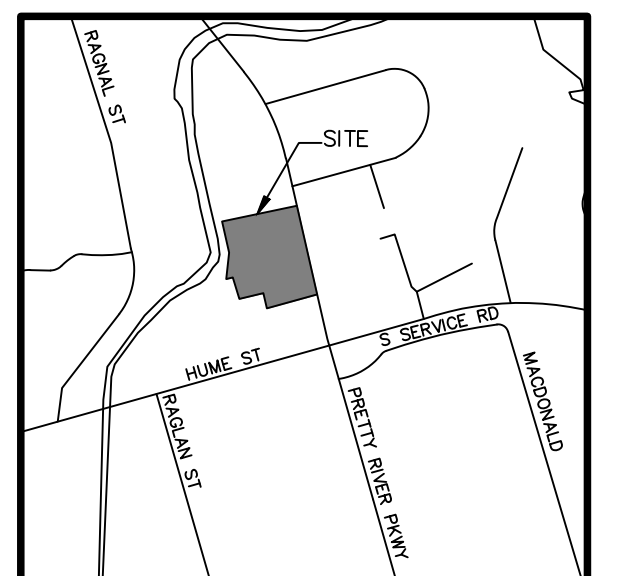
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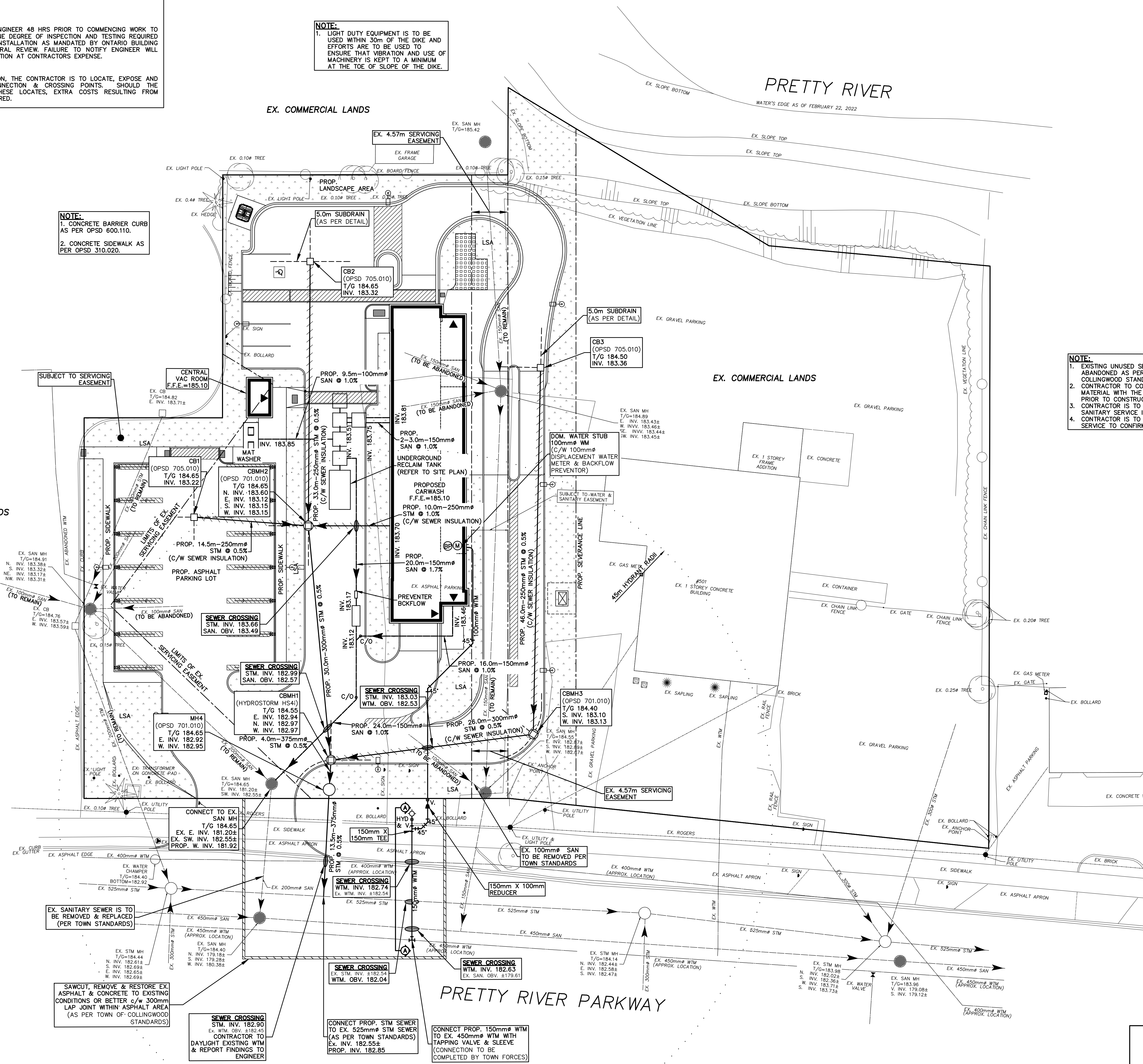
TITLE
SITE SERVICING PLAN

PROJECT No.	23011	DRAWING No.	C102
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KEY MAP
 N.T.S.

- LEGEND:**
- EXISTING CATCHBASIN
 - EXISTING STORM/SANITARY MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED STORM/SANITARY MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CURB STOP/GATE VALVE
 - PROPOSED WATER METER
 - PROPOSED BACKFLOW PREVENTOR
 - SEWER CROSSING



GENERAL NOTES

- THIS/THOSE PLAN(S) IS/ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SEALED BY THE ENGINEER AND INDICATED ISSUED FOR CONSTRUCTION ON THE DRAWING.
- THIS/THOSE PLAN(S) IS/ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF S. LLEWELLYN AND ASSOCIATES LIMITED.
- INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS ARE FURNISHED AS THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND HIS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY. THE CONTRACTOR SHALL ASSUME LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
- EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLANS PREPARED BY IBW SURVEYING, DATED FEB. 24, 2022.
- SITE PLAN INFORMATION TAKEN FROM PLANS PREPARED BY BICORP DESIGN GROUP LTD.
- THIS/THOSE PLAN(S) TO BE READ IN CONJUNCTION WITH THE FUNCTIONAL SERVING & STORMWATER MANAGEMENT (SWM) REPORT PREPARED BY S. LLEWELLYN AND ASSOCIATES LIMITED.
- THIS/THOSE PLAN(S) TO BE USED FOR SERVING AND GRADING ONLY, FOR BUILDING LOCATION REFER TO THE SITE PLAN.
- MUNICIPAL APPROVAL OF THESE DRAWINGS IS FOR MATERIAL AND COMPLIANCE WITH TOWN OF COLLINGWOOD AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL AND INSPECTION OF THE WORKS BY THE TOWN OF COLLINGWOOD STAFF DOES NOT CERTIFY THE LINE AND GRADE OF THE WORKS NOR RELIEVE THE CONTRACTOR OF CERTIFICATION OF ALL WORKS BY THE OWNER'S ENGINEER.
- ALTERNATE MATERIALS MAY BE ACCEPTABLE PROVIDED WRITTEN APPROVAL HAS FIRST BEEN OBTAINED FROM THE TOWN OF COLLINGWOOD AND THE ENGINEER.
- PRIOR TO CONSTRUCTION THE CONTRACTOR MUST:
 - CHECK AND VERIFY ALL DIMENSIONS AND EXISTING ELEVATIONS WHICH INCLUDE BUT ARE NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS, EXISTING INVERTS AND REPORT FINDING IN WRITING TO THE ENGINEER.
 - OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
 - VERIFY ALL FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS WHICH MAY APPEAR ON THESE PLANS COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
 - CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
 - NOTIFY THE ENGINEER OF THE PROPOSED CONSTRUCTION SCHEDULE FOR COORDINATION OF NECESSARY INSPECTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER 48 HOURS PRIOR TO THE COMMENCING SITE WORKS TO ARRANGE FOR INSPECTION. THE ENGINEER SHALL DETERMINE THE EXTENT OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF THE UNDERGROUND SERVICE INSTALLATION AS MANDATED BY THE ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVIEW. FAILURE TO MAKE SUITABLE ARRANGEMENTS FOR INSPECTION WILL LEAD TO POST CONSTRUCTION TESTING AND INSPECTION AS DETERMINED BY THE ENGINEER, THE COSTS OF WHICH INCLUDING ANY DELAYS IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR. FULL PAYMENT FOR UN-INSPECTED WORKS MAY BE WITHHELD UNTIL THE COMPLETION OF THE POST CONSTRUCTION INSPECTION AND TESTING TO THE SATISFACTION OF THE ENGINEER.
- INSPECTION BY THE OWNER'S ENGINEER IS FOR CERTIFICATION AND GENERAL CONFORMANCE PURPOSES AND DOES NOT CERTIFY LINE AND GRADE OR IMPLY AN ASSURANCE OF QUALITY CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THE INSTALLATION OF THE WORKS TO PROPER LINE, GRADE AND QUALITY TO CURRENT INDUSTRY STANDARDS.
- ANY UTILITY RELOCATIONS AND RESTORATIONS DUE TO THE DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/DEVELOPER AND SHALL BE COORDINATED BY THE CONTRACTOR.
- ALL RESTORATIONS AND RECONSTRUCTIONS SHALL BE TO COMPLETED TO MATCH EXISTING CONDITIONS OR BETTER AND ARE TO BE PERFORMED TO THE SATISFACTION OF THE ENGINEER AND THE TOWN OF COLLINGWOOD.
- SERVICING CONTRACTOR TO MAINTAIN A "CONFINED TRENCH CONDITION" IN ALL SEWER AND WATERMAIN INSTALLATION TRENCHES.
- THE SITE SERVING CONTRACTOR SHALL TERMINATE ALL SERVICES 1.0m FROM THE BUILDING FACE.

TOWN OF COLLINGWOOD GENERAL CONSTRUCTION NOTES

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF COLLINGWOOD, O.P.S.D AND O.P.S.S. WHERE CONFLICT OCCURS, TOWN OF COLLINGWOOD STANDARD TO GOVERN.
- TRENCH BACKFILL (OPSD 802.XXX AS APPLICABLE) TO BE SELECT NATIVE MATERIAL OR IMPORTED SELECT SUBGRADE TO OPSD 1010. BACKFILL TO BE PLACED IN MAXIMUM 200mm THICK LIFTS AND COMPACTED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- PIPE BEDDING TO BE GRANULAR 'A' PIPE COVER TO BE GRANULAR 'B' MAX. AGGREGATE SIZE 25mm FOR RIGID PIPE AND GRANULAR 'A' FOR FLEXIBLE PIPE. MINIMUM BEDDING DEPTH 150mm, MINIMUM COVER 300mm, COMPACTED TO A MINIMUM OF 95% SPMDD.
- CLEAR STONE WRAPPED IN FILTER FABRIC CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE ENGINEER.
- ALL MAINTENANCE HOLES ARE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED.
- ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY ENGINEER.
- THE OWNER'S ENGINEER SHALL PROVIDE BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT REFERENCE FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.
- ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
- ALL MAINTENANCE HOLE AND CATCHBASIN FRAMES AND COVERS TO BE SET TO BASE COURSE HL3 ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF FINAL COURSE HL3 ASPHALT TO THE SATISFACTION OF THE TOWN.
- THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPS5-517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR RESPONSIBLE FOR OBTAINING M.O.E. PERMIT IF REQUIRED.
- ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EXISTING FACILITIES AS WELL AS ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.

STORM SEWERS

- MH, CBMH AND DICBMH TO OPSD 701.010 (OR AS INDICATED ON THE SITE SERVING PLAN) C/W SUMP UNLESS NOTED OTHERWISE.
- STEPS TO BE AS PER OPSD 405.010.
- MH FRAMES AND GRATES TO BE AS PER OPSD 401.010 OPEN COVER.
- CB'S ARE TO BE AS PER OPSD 705.010, 705.020.
- DICB'S TO BE AS PER OPSD 705.030, 705.040, 706.010, 706.020, 706.030, 706.040.
- CB AND CBMH FRAMES AND GRATES TO BE AS PER OPSD 400.020 AND REAR LOT 400.120.
- PIPE SUPPORT AT MH'S, CB'S AND DICB'S TO BE AS PER OPSD 708.020.
- CB LEADS TO BE 250mm DIA SINGLE AND 300mm DIA DOUBLE TO BE AS PER OPSD 708.010, 708.030.
- PROTECTION DURING CONSTRUCTION TO BE AS PER OPSD 808.010.
- BEDDING AND COVER TO BE AS PER OPSD 802.010. (FLEXIBLE PIPE) GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL OR OPSD 802.030, 802.031 AND 802.032 (RIGID PIPE) GRANULAR 'A' BEDDING AND GRANULAR 'B' (MAXIMUM AGGREGATE SIZE 25mm) COVER.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.

SANITARY SEWERS

- MH'S TO BE AS PER OPSD 701.010.
- BENCHING TO BE AS PER OPSD 701.021. NOTE: MINIMUM HOLE SIZE IF PRE-CAST RISER SECTION SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS.
- STEPS TO BE AS PER OPSD 405.010.
- FROST STRAPS SHALL BE INSTALLED ON ALL MAINTENANCE HOLES AS PER OPSD 701.100.
- BEDDING AND COVER TO BE AS PER OPSD 802.010. (FLEXIBLE PIPE) GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- FRAMES AND COVERS TO BE AS PER OPSD 401.010 TYPE 'A' (CLOSED COVER).
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- CLEAR STONE WRAPPED WITH FILTER FABRIC CAN BE SUBSTITUTED FOR EMBEDMENT MATERIAL IF APPROVED BY THE ENGINEER.
- MAINTENANCE HOLE FRAMES TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISE PRIOR TO PLACING SURFACE COURSE ASPHALT TO THE SATISFACTION OF THE TOWN.

- PIPE SUPPORT AT MAINTENANCE HOLES TO BE AS PER OPSD 708.020.
- ALL MAINTENANCE HOLES, UNLESS EXPRESSLY IDENTIFIED ARE 1200mm DIAMETER.
- GENERAL INSTALLATION AND TESTING OF SEWERS AND APPURTENANCES TO BE IN ACCORDANCE WITH O.P.S.S. 407, 408, 409 (CCTV), 410, 421 AND ALL SPECIFICATION REFERENCED WITHIN THESE SECTIONS.

WATER MAINS

- BEDDING AND COVER TO BE AS PER OPSD 802.010, GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- THRUST BLOCKS TO BE AS PER OPSD 1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
- HYDRANTS TO BE AS PER OPSD 1105.010. DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- MINIMUM COVER ON WATER MAIN AND SERVICES TO BE 1.7m.
- GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROMAX GRIP RING RESTRAINING CLAMP.
- CLEARANCE BETWEEN WATER MAINS AND SEWERS TO BE MINIMUM OF 0.5m VERTICAL WHERE WATER MAIN IS BELOW SEWER OR 2.5m MINIMUM HORIZONTAL SEPARATION, WHERE WATER MAIN IS ABOVE SEWER. THE MINIMUM SEPARATION TO BE 150mm (BEDDING MATERIAL).
- SERVICE TO BE AS PER OPSD 1104.010 AND SHALL BE DIRECT TAP.
- FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE SATISFACTION OF THE ENGINEER.
- GENERAL INSTALLATION AND TESTING OF WATER MAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH O.P.S.S. 701 AND ALL SPECIFICATION REFERENCED WITHIN THIS SECTION.
- ALL WATERMAIN TESTING AND CHLORINATION WILL BE CONDUCTED BY THE CONTRACTOR. IT SHOULD BE NOTED THAT NEW WATERMANS ARE NOT TO BE CONNECTED TO EXISTING WATERMAIN UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED.
- ALL WATERMAIN DISINFECTION WILL BE CONDUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE MFCP WATERMAIN DISINFECTION PROCEDURE, TO THE SATISFACTION OF THE TOWN. THE TOWN SHALL COLLECT THE REQUIRED MICROBIOLOGICAL WATER QUALITY SAMPLES, AT THE DEVELOPERS COST, PRIOR TO PLACING THE WATERMAIN INTO SERVICE.
- WATERMANS ARE TO BE CONSTRUCTED OF DUCTILE IRON PER TOWN'S DEVELOPMENT STANDARDS.
- WATER SERVICES ARE TO BE CONSTRUCTED OF COPPER PER TOWN'S DEVELOPMENT STANDARDS.
- ALL WATERMAIN AND SERVICES ARE TO BE INSTALLED WITH A MINIMUM COVER OF 1.7m.
- ALL WATERMAIN TESTING AND COMMISSIONING SHALL BE COMPLETED BY A QUALIFIED CONTRACTOR. A WATER COMMISSIONING PLAN SHOULD BE SUBMITTED TO THE TOWN A MINIMUM OF 2 WEEKS PRIOR TO COMMENCING ANY TESTING FOR REVIEW AND APPROVAL.
- JOINT RESTRAINTS AND CATHODIC PROTECTION IS REQUIRED IN ACCORDANCE WITH THE TOWN OF COLLINGWOOD'S STANDARDS.

MATERIALS

- SANITARY SEWER - SDR 35 PVC (INCREASE SPECIFICATION WHERE INSTALLATION DICTATES).
- WATERMAIN - DUCTILE IRON CLASS 52 OR PRESSURE CLASS 350 CEMENT LINED, CONDUCTIVITY CONNECTORS TO BE USED ON ALL JOINTS.
- WATERMAIN - THE USE OF PVC SHALL BE CONFIRMED WITH THE TOWN OF COLLINGWOOD. UPON CONFIRMATION, PVC PIPE SIZES THROUGH 300mm SHALL BE CLASS 235 DR18 CONFORMING TO AWWA C900 WITH MECHANICAL JOINTS AS PER AWWA C101, AND BE INSTALLED WITH A TO GAUGE TRACER WIRE.
- ALL HYDRANT SHALL BE CANADA VALVE, CENTURY NO. 1 OPEN LEFT WITH 2 CSA HOSE PORTS, ONE STORZ 4" PUMPER PORT, AND A BREAK AWAY TYPE 6" MJ BASE.
- HYDRANT ACCESSORIES - MARKER'S FLEX STAKE MODEL FHV 804, REFLECTIVE HYDRANT DECAL, YELLOW 48" LENGTH; ANTI TAMPER DEVICE FOR CENTURY HYDRANT, BLUE.
- VALVES - RESILIENT SEATED, RSGV, MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5 SL-48 SLIDING VALVE BOX.
- MECHANICAL JOINT DUCTILE FITTINGS - AWWA/ANSI C153/A21.53.
- RESTRAINER-ROLMAC GRIPPER RING UP TO 300mm, SIGMA ONE LOCK RESTRAINING GLANDS OVER 300mm.
- LIVE TAP SADDLES - EPOXY COATED C/W STAINLESS STEEL BOLTS.
- HYDRANTS ARE TO BE 1.85m LONG. EXTENSIONS IF REQUIRED ARE TO BE INSTALLED BELOW THE 1.85m SECTION.

GRADING NOTES

- ALONG ADJOINING PROPERTIES GRADE TO MEET EXISTING OR PROPOSED ELEVATIONS WITH SODDED SLOPES (MIN. 3H TO 1V) AND/OR RETAINING WALLS AS SPECIFIED.
- ALL RETAINING WALLS, WALKWAYS, CURBS, ETC., SHALL BE PLACED A MIN. OF 0.45m OFF THE PROPERTY LINE. ALL WALLS 1.0M OR HIGHER SHALL BE DESIGNED BY A P.ENG.
- SHOULD A RETAINING WALL BE REQUIRED, THE TOP OF WALL ELEVATIONS SHALL BE SET 150mm ABOVE THE PROPOSED SIDE YARD SWALES.
- RETAINING WALLS 0.6m IN HEIGHT OR GREATER REQUIRE CONSTRUCTION OF A FENCE OR GUARD RAIL AT THE TOP OF THE REAR OF THE WALL. GUARDS FOR RETAINING WALLS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF EXTERIOR GUARDS AS CONTAINED IN THE ONTARIO BUILDING CODE.
- TOP OF FOUNDATION WALLS FOR BUILDINGS SHALL BE 150mm (MIN) ABOVE FINISHED GRADE.
- IF GRADING IS REQUIRED ON LANDS ADJACENT TO THE DEVELOPMENT WHICH ARE NOT OWNED BY THE DEVELOPER, THEN THE DEVELOPER MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNER TO ALLOW THE DEVELOPER TO GRADE ON THE ADJACENT LANDS, OTHERWISE RETAINING WALLS MUST BE USED.
- THE WRITTEN PERMISSION REQUIRED FROM THE ADJACENT LANDOWNER SHALL BE OBTAINED PRIOR TO ENTERING THE LANDS. SHOULD PERMISSION NOT BE OBTAINED OR IS WITHDRAWN PRIOR TO COMMENCING THE WORK, THEN THE DEVELOPER SHALL LIMIT HIS ACTIVITIES TO THE LIMITS OF THE DEVELOPMENT SITE.

COMPACTION REQUIREMENTS

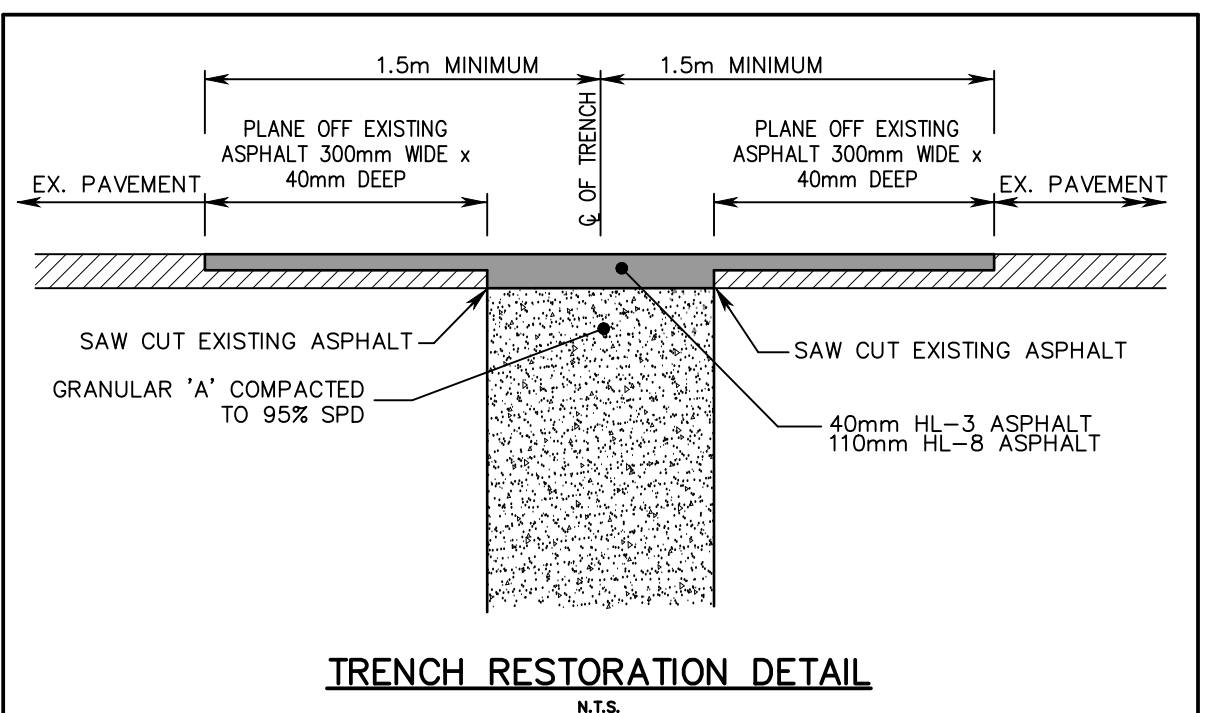
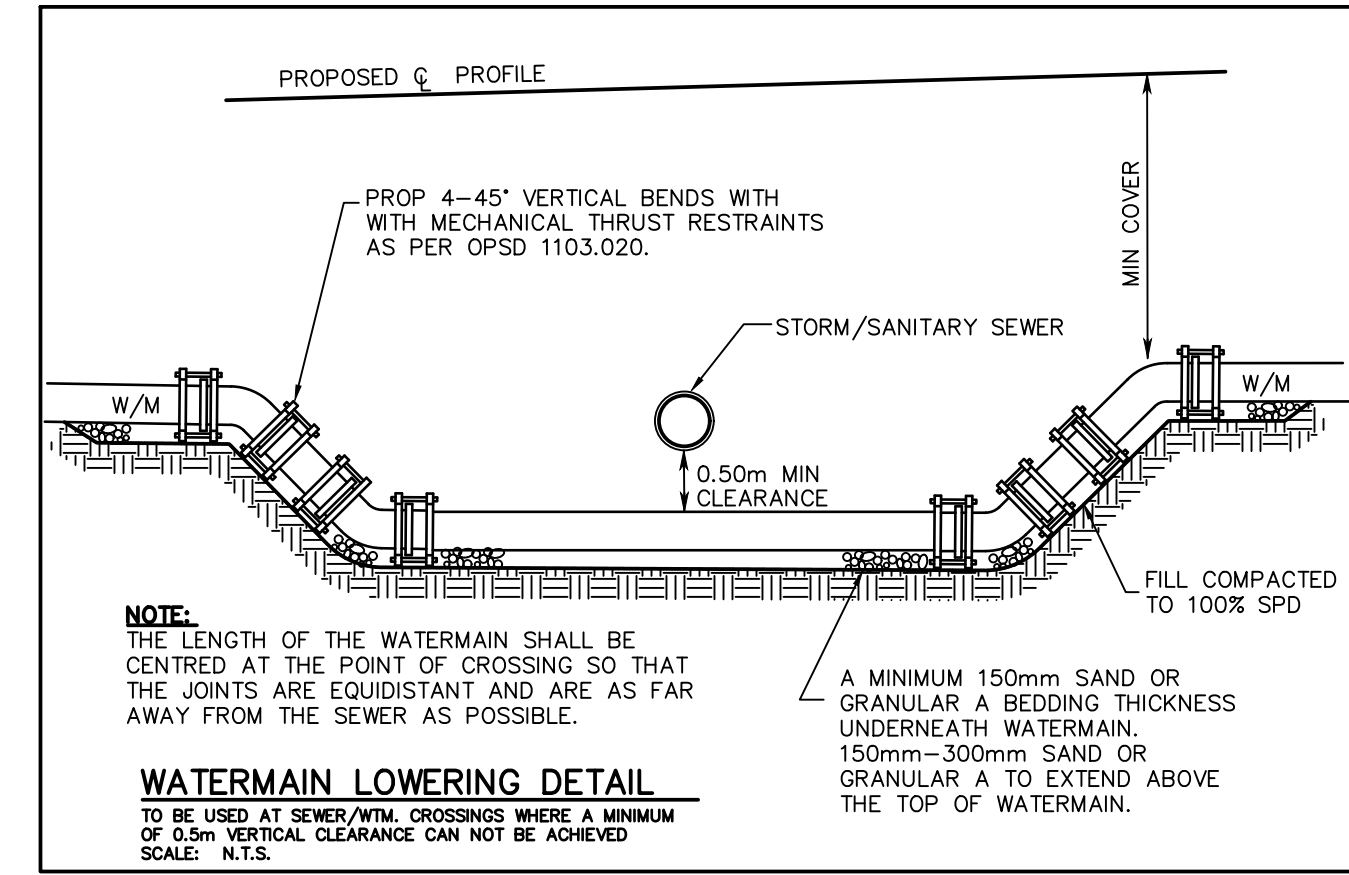
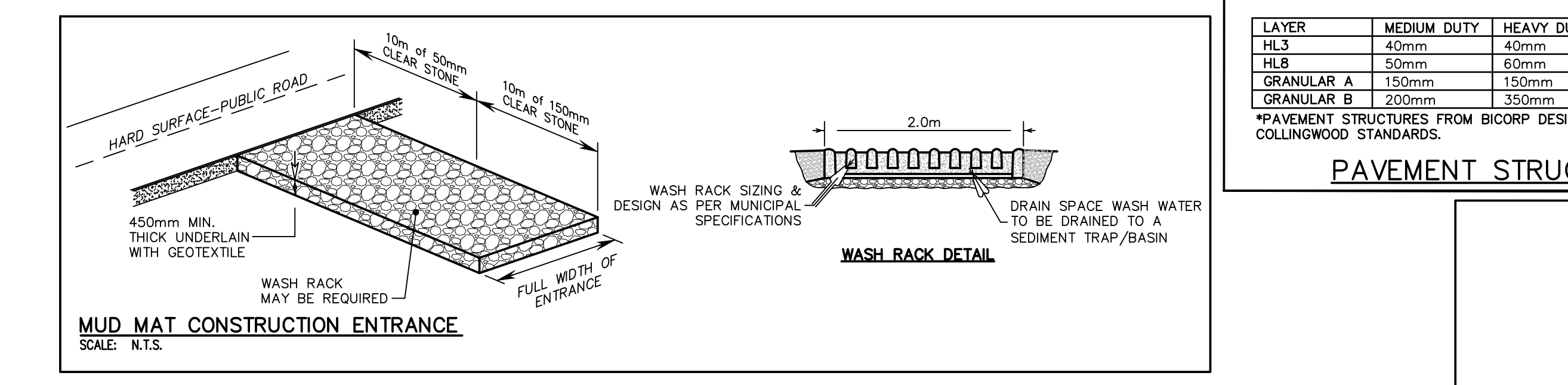
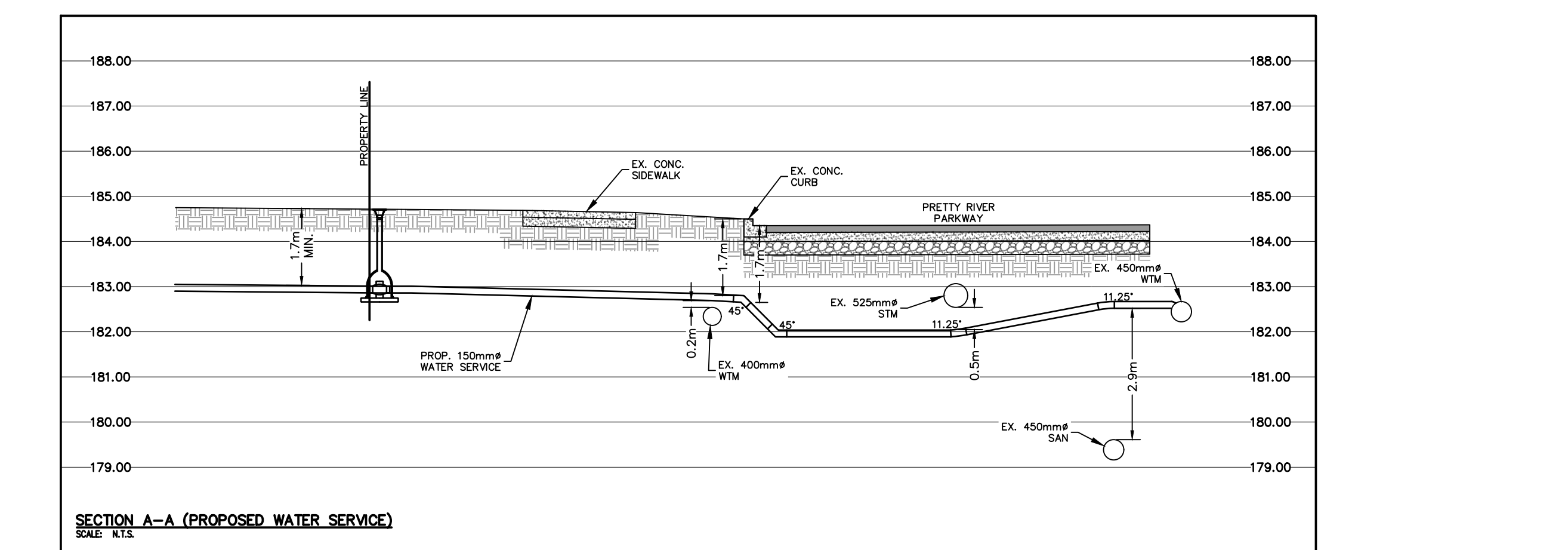
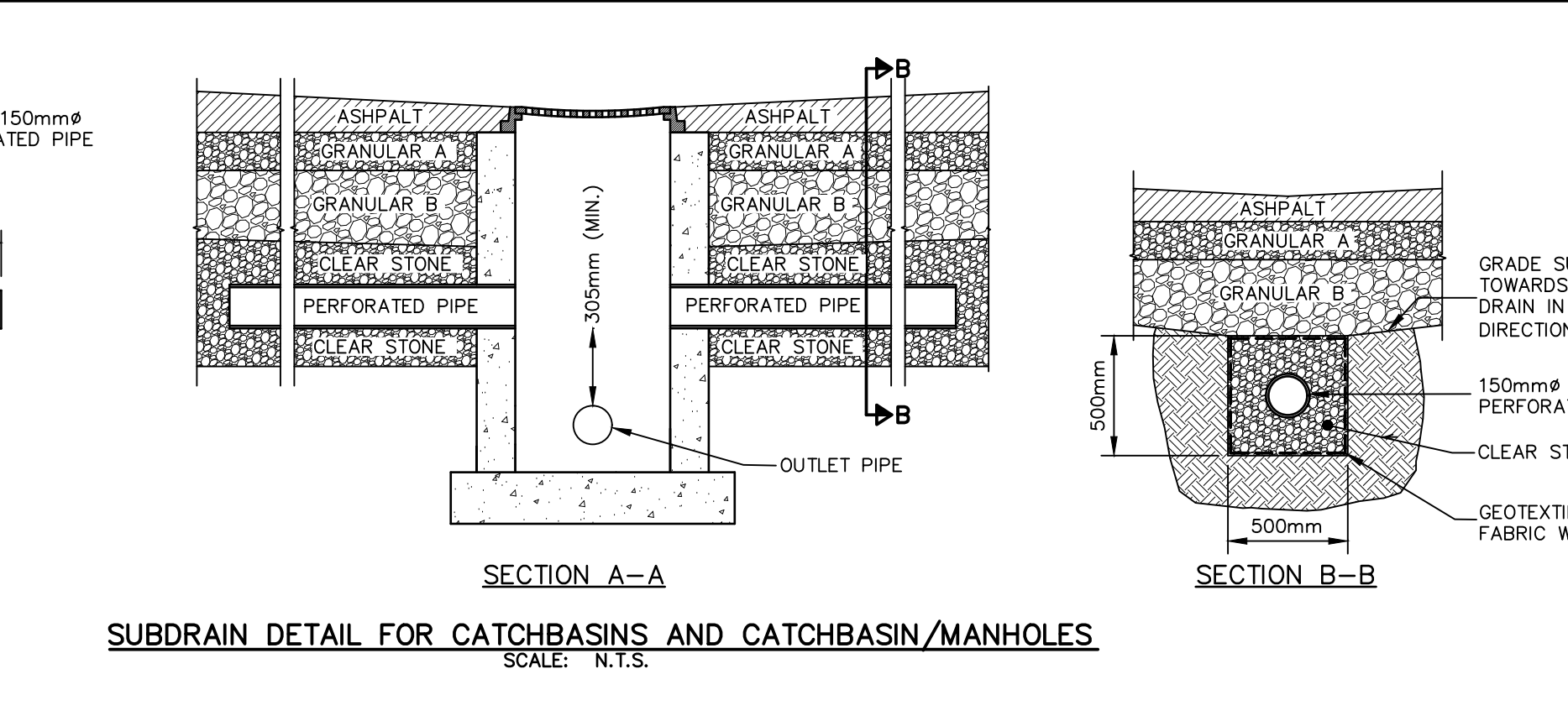
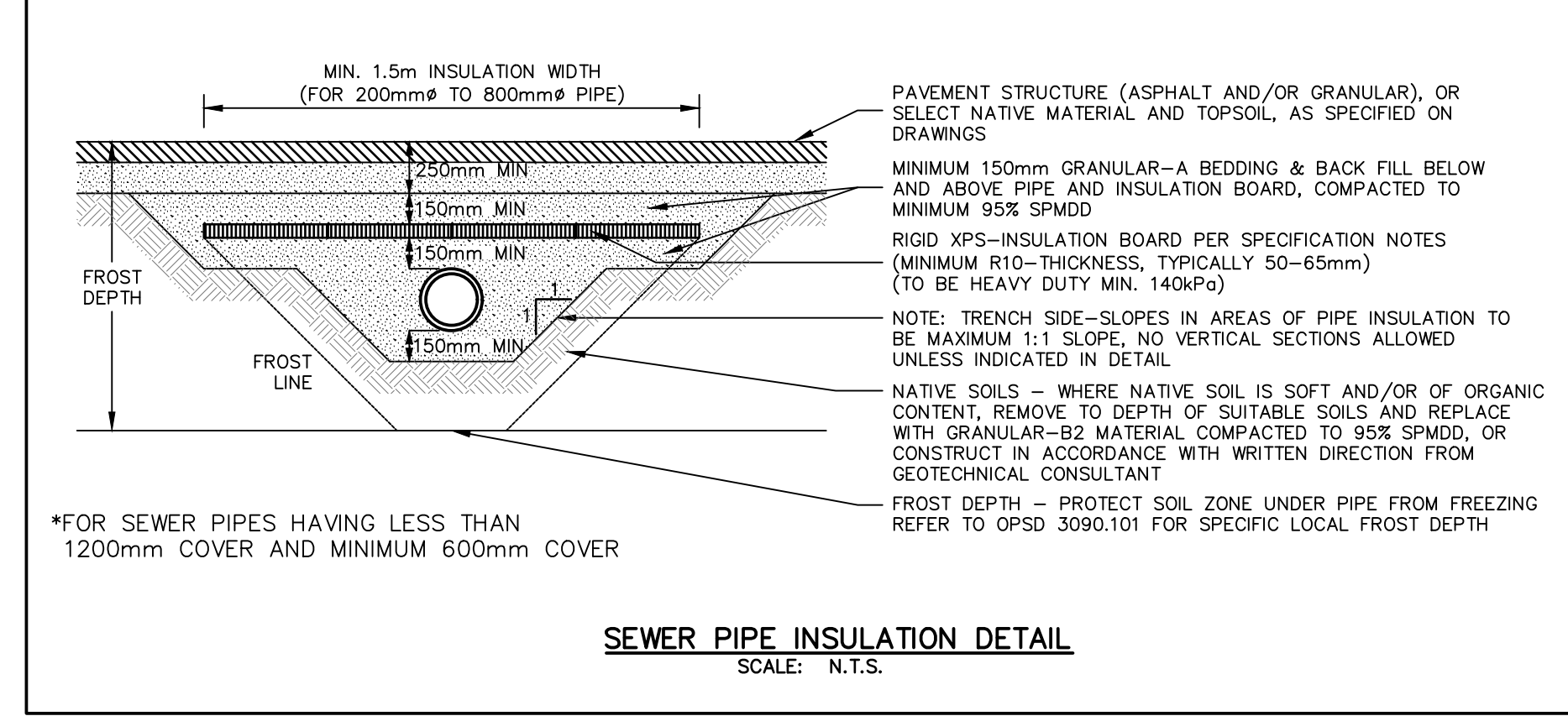
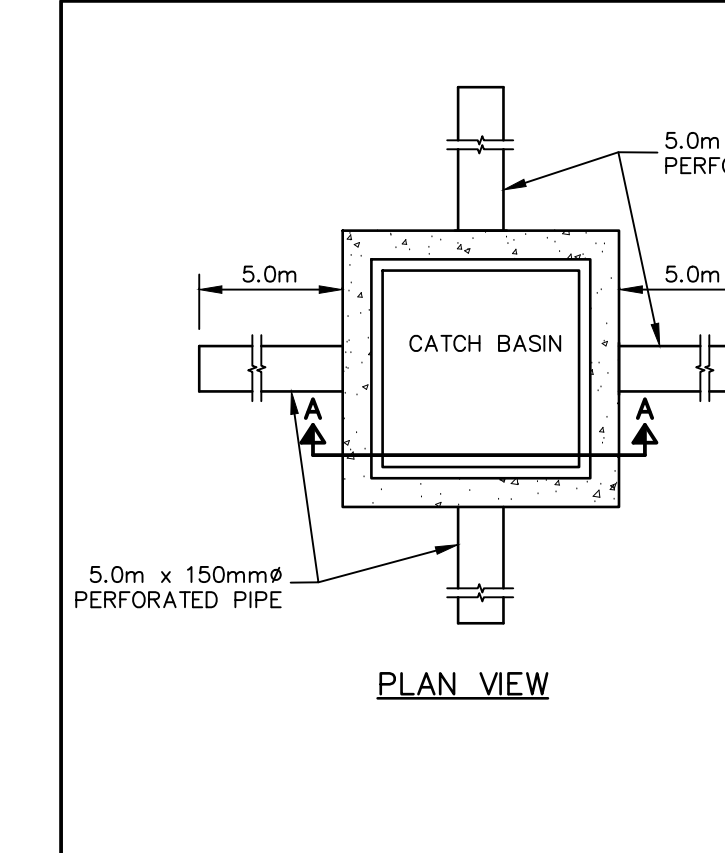
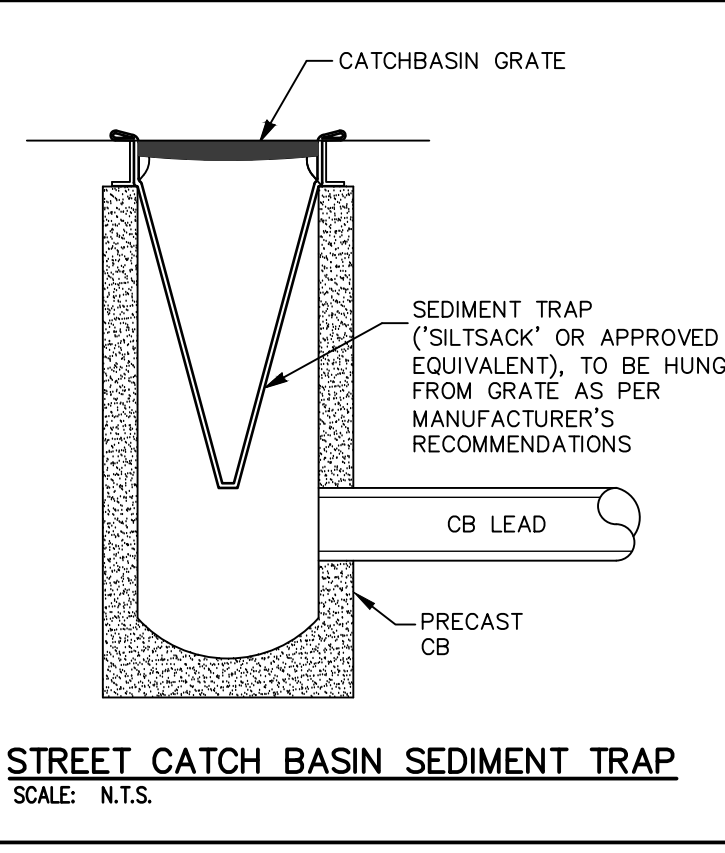
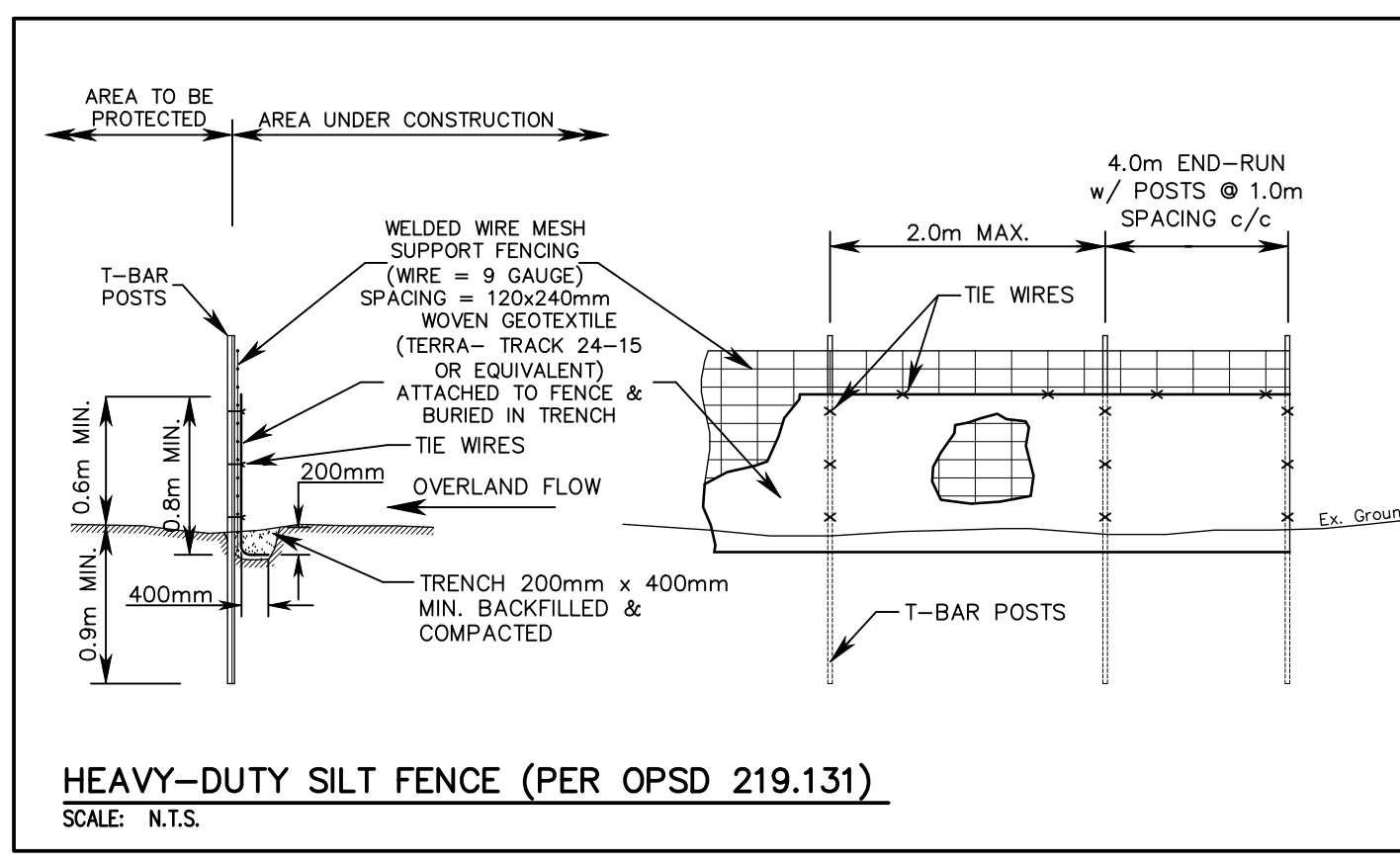
- UNLESS OTHERWISE NOTED OR DIRECTED BY THE GEOTECHNICAL CONSULTANT, THE FOLLOWING SHALL APPLY:
- ALL BEDDING AND BACKFILL MATERIAL, ROAD SUB-GRADES AND GENERALLY ALL MATERIAL USED FOR LOT GRADING AND FILL SECTIONS, ETC., SHALL BE COMPACTED TO MIN. 98% SPD. ALL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm LIFTS.
 - ALL GRANULAR ROAD BASE MATERIALS SHALL BE COMPACTED TO 98% SPD.
 - FOR ALL SEWERS AND WATERMANS IN FILL SECTIONS, THE COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE.

SILTATION AND EROSION CONTROL

- SILTATION CONTROL BARRIERS SHALL BE PLACED AS DETAILED.
- ALL SILTATION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED AFTER EACH RAINFALL AS DIRECTED AND TO THE SATISFACTION OF THE CITY OF HAMILTON AND/OR THE HAMILTON CONSERVATION AUTHORITY.
- ADDITIONAL SILT CONTROL LOCATIONS MAY BE REQUIRED AS DETERMINED BY THE ENGINEER, THE CITY OF HAMILTON AND/OR THE HAMILTON CONSERVATION AUTHORITY.
- ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO DEVELOPMENT AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS, UNTIL ALL DISTURBED AREAS HAVE BEEN RE-ESTABLISHED.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE INSPECTED MINIMUM WEEKLY, AFTER EVERY RAINFALL AND MAINTAINED AND CLEANED AS REQUIRED.
- THE OWNER IS RESPONSIBLE FOR THE REMOVAL OF ALL MUD AND DEBRIS THAT ARE TRACKED ONTO THE ROADWAYS FROM VEHICLES ENTERING AND LEAVING THE CONSTRUCTION SITE. THE OWNER SHALL, UPON VERBAL AND/OR REQUEST BY THE CITY, IMMEDIATELY PROCEED WITH THE CLEANUP OPERATION AT THEIR EXPENSE. SHOULD THE OWNER FAIL TO MAINTAIN THE ROAD AS DIRECTED, THE CITY WILL HAVE THE CLEANING CARRIED OUT, AND DRAW ON THE SECURITY FOR COSTS AND/OR LAY CHARGES.

SEWER/WATER ABANDONMENT

- ALL EXISTING UNUSED SEWERS MUST BE PROPERLY ABANDONED BY DISCONNECTING SEWER AT THE MAIN AND GROUTING EITHER END OF THE SEWER WITH A MINIMUM 300mm OF CONCRETE.
- UNUSED MAINTENANCE HOLES AND CATCHBASINS MUST BE COMPLETELY REMOVED.
- OPENINGS IN MAINTENANCE HOLES AND CATCHBASINS WHERE SERVICES WERE REMOVED OR ABANDONED MUST BE BRICKED AND PARGED.
- ALL EXISTING UNUSED WATER SERVICES MUST BE PROPERLY ABANDONED AS FOLLOWS PER TOWN OF COLLINGWOOD.



BENCH MARK NOTE:
ELEVATIONS ARE GEODETIC AND REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD28) BY DIRECT MEASUREMENT TO A REAL TIME NETWORK.

NO.	DATE	BY	REVISIONS
08	MAR 12/25	MC	NOTES ADDED FOR SANITARY SERVICE
07	DEC 10/24	MC	REVISED PER COMMENTS
06	NOV 04/24	MC	REVISED PER COMMENTS
05	OCT 29/24	MC	REVISED PER COMMENTS
04	AUG 27/24	MC	REVISED PER COMMENTS

NOTES TO CONTRACTOR:

- CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
- ANY INCONSISTENCIES AND OMISSIONS FOUND ON THE DRAWINGS MUST BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ALL FINDINGS TO THE ENGINEER. ONCE CONSTRUCTION HAS COMMENCED, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS.
- THE POSITIONS OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVER-GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS, WHERE SHOWN ON THE DRAWINGS, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

DESIGN	MC	CHK'D	SF	DATE
DRAWN	FG	CHK'D	SF	Dec. 10, 24

APPROVALS

STAMP
LICENSED PROFESSIONAL ENGINEER
S.V. FRANKOVICH
12/03/25
PROVINCE OF ONTARIO

S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS

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CLIENT

BICORP DESIGN GROUP
1235 FAIRVIEW STREET, SUIT 290
BURLINGTON, ONTARIO

PROJECT NAME

REVIVE CAR WASH
298 PRETTY RIVER PARKWAY
TOWN OF COLLINGWOOD, ONTARIO

TITLE

NOTES & DETAILS PLAN

PROJECT No. 23011 DRAWING No. C103