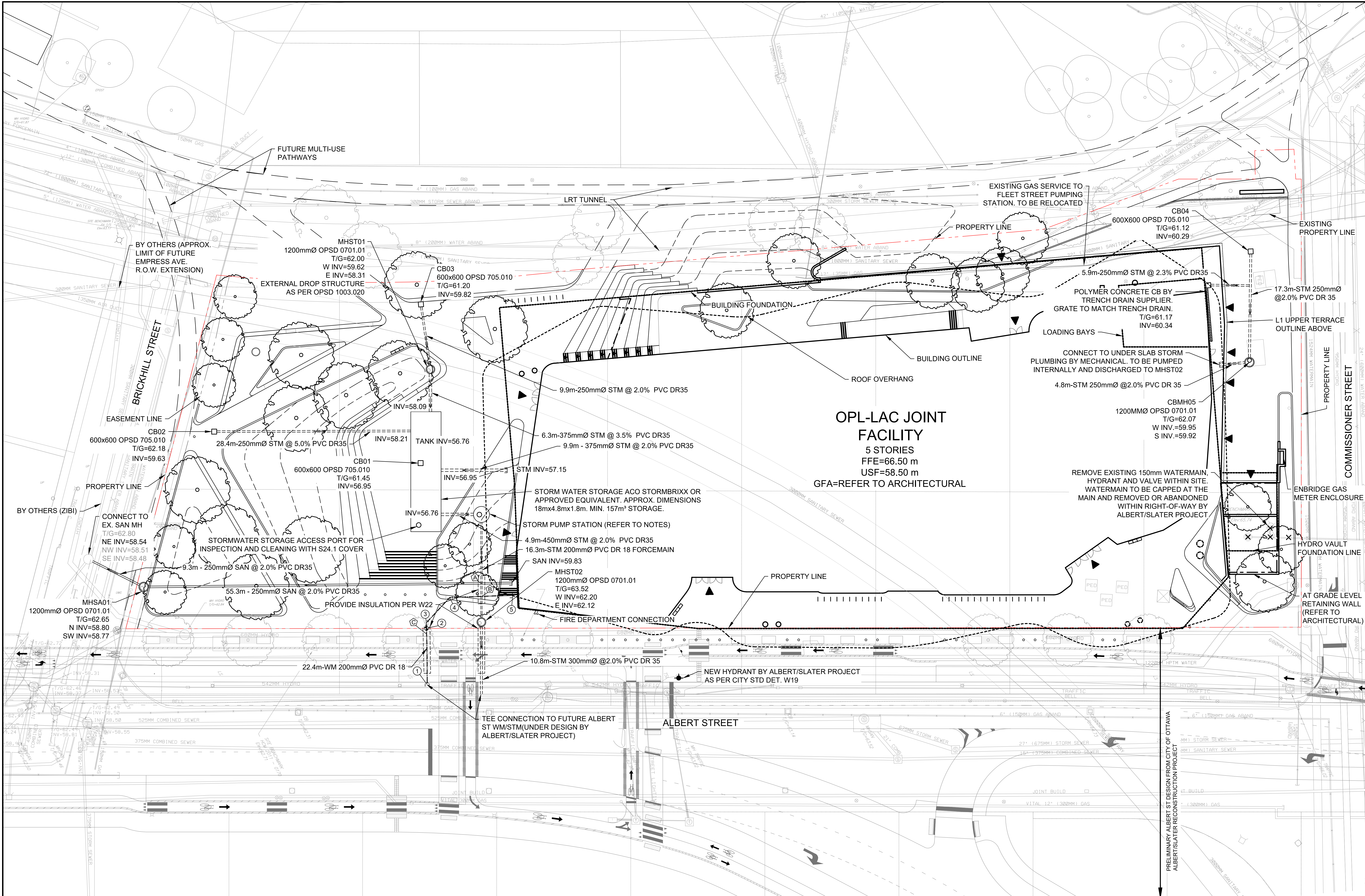


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No.	Date	Description
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**NOTES:**  
**GENERAL**

- COORDINATES ARE IN NTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL).
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA PRIOR TO STARTING CONSTRUCTION.
- SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING.
- REFER TO "SITE SERVICING AND STORMWATER MANAGEMENT DESIGN BRIEF - OTTAWA PUBLIC LIBRARY - LAC JOINT FACILITY" PREPARED BY MORRISON HERSHFELD FOR SITE SERVICING REPORT.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT (NO. 191316) DATED FEBRUARY 20, 2020 PREPARED BY GOLDER ASSOCIATE FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY ELEVATIONS AT CONNECTION AND CROSSING LOCATIONS PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES.
- UNLESS DIRECTED OTHERWISE ANY DAMAGED ASPHALT OR CURB (REGARDLESS OF WHETHER WITHIN OR EXTERNAL TO THE SITE) SHALL BE REINTEGRATED IN ACCORDANCE WITH CITY STD. DET. S1 AND S11.
- UNLESS DIRECTED OTHERWISE THE CONTRACTOR SHALL REINSTATE ALL SIGNS, LIGHTING AND OTHER STREET FURNITURE DISTURBED BY THE WORK.
- THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT TRAFFIC MANAGEMENT PLANS FOR WORK IN RIGHT OF WAY IN ACCORDANCE WITH OTM BOOK 7.
- CLAY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S8 AND SHALL BE INSTALLED AT 50m INTERVALS IN ALL PIPE TRENCHES. CLAY SEAL TO EXTEND FULL TRENCH WIDTH AND FROM BOTTOM OF TRENCH EXCAVATION TO UNDERSIDE OF ROAD STRUCTURE, WITH A MINIMUM THICKNESS OF 15mm ALONG PIPE.
- LOCATE AND CAP ALL EXISTING STORM, SANITARY AND WATER SERVICES AT THE PROPERTY LINE. ABANDON EXISTING SERVICES WITHIN THE R.O.W. PER STANDARD CITY OF OTTAWA DETAIL S11.4 (TYPICAL).

**SEWERS**

- ALL STORM SEWERS, SANITARY SEWERS AND CATCH BASINS LEADS SHALL BE PVC DR 35 UNLESS OTHERWISE SPECIFIED.
- REFER TO DETAIL 1 ON DRAWING C005 FOR SEWER INSTALLATION.
- MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES ON STORM SEWERS LESS THAN 800mm DIAMETER SHALL BE CONSTRUCTED WITH A 300mm SUMP. BENCHING SHALL BE INSTALLED IN MAINTENANCE HOLES ON STORM SEWERS 800mm AND ABOVE.

**WATERMANS**

- REFER TO DETAIL 1 ON DRAWING C005 FOR WATERMAIN INSTALLATION.
- ALL WATERMAIN MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2019 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND C813.3 LATEST AMENDMENT WITH GASIFIED BELL AND SPOUT COUPLINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER PERMIT AS REQUIRED FROM THE CITY OF OTTAWA, AND COMPLYING WITH ALL CITY OF OTTAWA REQUIREMENTS. THE CITY MAY REQUIRE THAT CERTAIN ACTIVITIES (E.G. VALVE OPERATION, CONNECTION OF NEW WATER SERVICE TO EXISTING WATERMAIN, DISINFECTION) BE CARRIED OUT ONLY BY CITY FORCES.
- ALL VALVES 300mm DIAMETER AND SMALLER SHALL INCLUDE A VALVE BOX AS PER W24.
- THE NEW WATERMAIN IS TO BE INSTALLED WITH A MINIMUM OF 24m COVER (INCLUDING HYDRANT LEAD), WHERE 24m COVER IS NOT POSSIBLE. PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAILS W22 & W23.
- THRUST RESTRAINT SHALL BE PROVIDED BY BOTH RESTRAINING/RETAINING RINGS AND THRUST BLOCKS AT ALL DEAD END CAPS, PLUGS, VALVES, BENDS AND REDUCERS AS PER CITY OF OTTAWA STANDARD DETAILS W23, W24, W25 AND W26.6. ALL TEMPORARY THRUST RESTRAINTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- TRACER WIRE SHALL BE PROVIDED FOR ALL NEW PVC WATERMANS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAIL W26.
- CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL NEW WATERMANS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAILS W26, W40, W41, W42 AND W47. CATHODIC PROTECTION OF EXISTING WATERMANS SHALL ALSO BE PROVIDED AT CONNECTIONS BETWEEN EXISTING AND NEW WATERMANS.
- ADJUST ALL VALVE CHAMBERS, VALVE BOXES AND HYDRANTS TO FINISHED GRADE.

**UTILITY NOTE**

- THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HISSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES IN ADVANCE OF EXCAVATION WORK AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION.
- ALL CROSSING OF EX. UTILITIES TO BE IN ACCORDANCE WITH CITY STD. DET. S10.

**STORMWATER PUMPING STATION**

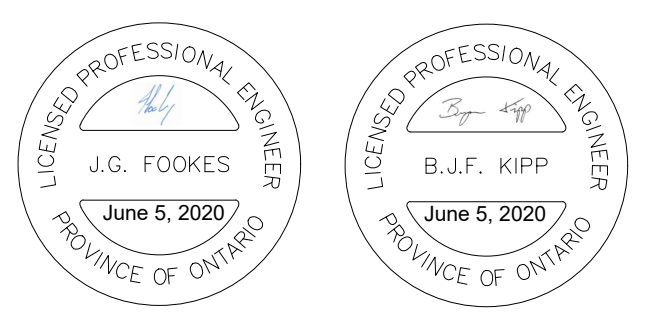
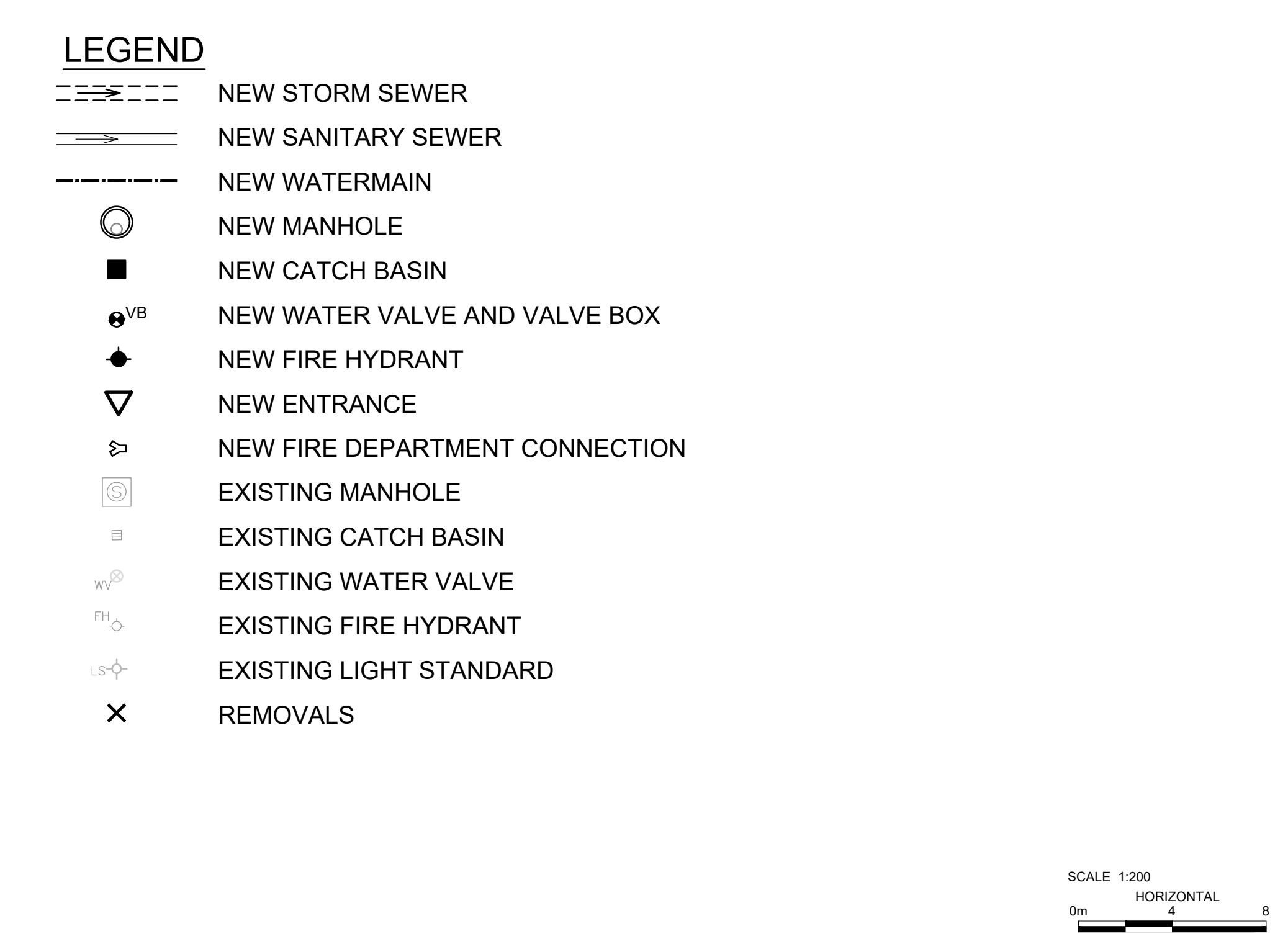
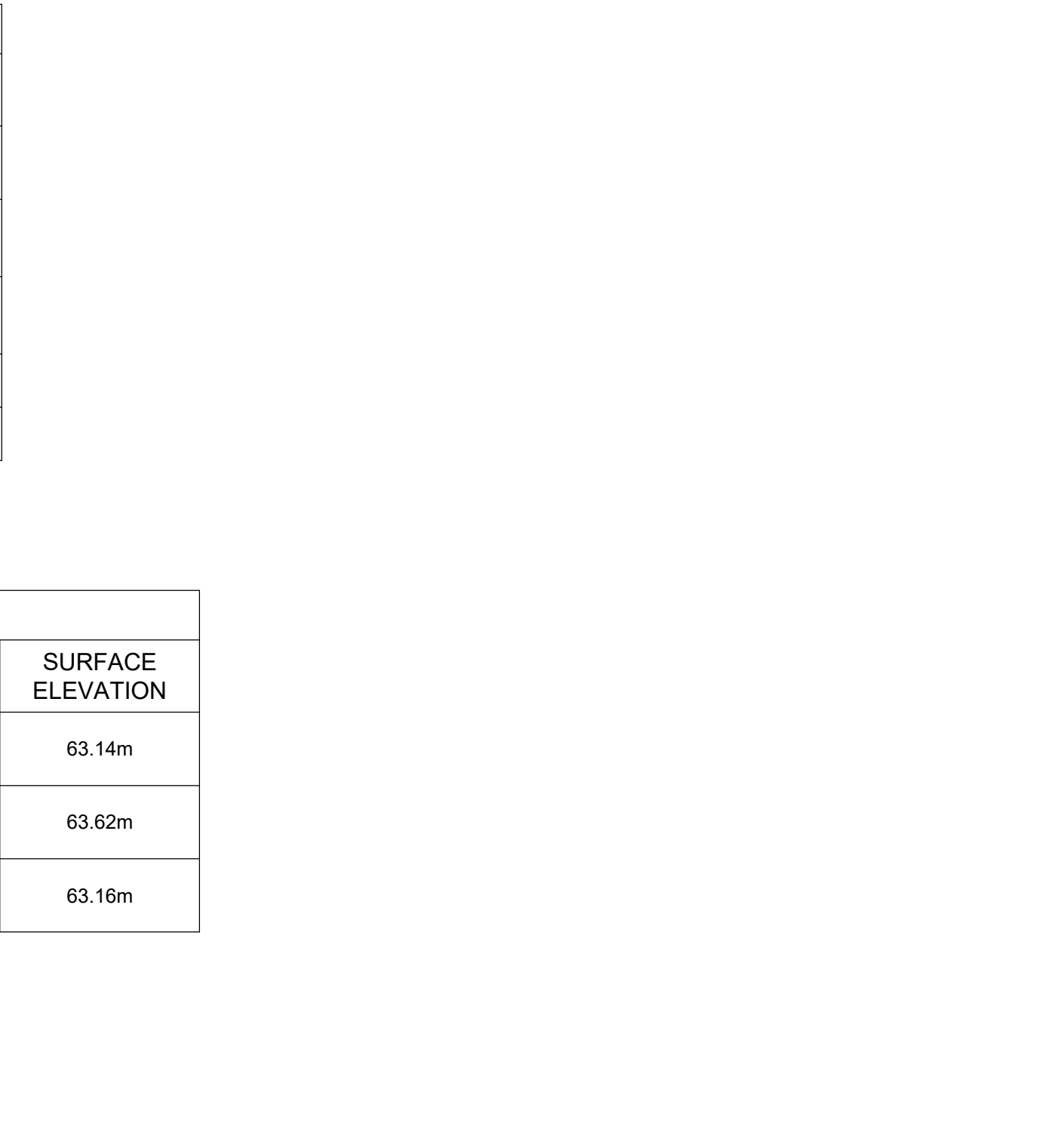
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SUBMIT SHOP DRAWINGS STAMPED BY PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN ONTARIO.
- DUTY POINT: 64.0 LIS AT 6.46m HEAD
- T/D = 41.8m
- PUMP ON ELEVATION = 56.66m
- PUMP OFF ELEVATION = 56.84m
- INVERT = 56.5m
- MINIMUM INTERNAL DIAMETER = 1200mm
- DUTY/STANDBY PUMPS REQUIRED
- WET WELL TO BE PRECAST CONCRETE OR FRP
- ACCESS COVERS TO BE PER CITY ST. DET S24
- VENT FOR PUMP STATION SHALL BE CONNECTED TO THE VENT/LOUVER SYSTEM ON THE ADJACENT WALL OF THE NEW BUILDING. CONTRACTOR TO PROVIDE VENT TO FLOOR BUILDING AND INCLUDE AN ALLOWANCE IN COST ESTIMATE TO COVER COORDINATION WITH PUMP STATION MANUFACTURER AND MECHANICAL ENGINEER TO CONFIRM REQUIREMENTS OF VENT PIPE AND ROUTING.

**PROPOSED WATER SERVICE TABLE**

NUMBER	SURFACE ELEVATION	T/W M ELEVATION	COMMENTS
1	62.99	60.59*	TEE CONNECTION TO FUTURE 200mmØ WATERMAIN
2	63.22	60.82±	200mmØ SHUT-OFF VALVE
3	63.21	60.81±	45° BEND
4	63.37	60.97±	45° BEND
5	63.63	61.23±	CAP 1.0m FROM BUILDING

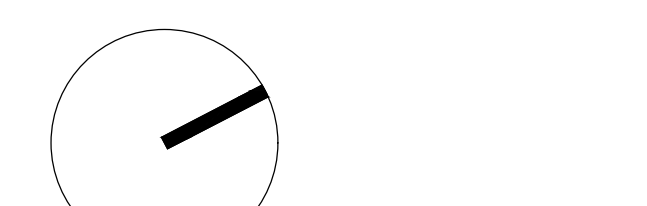
**PIPE CROSSING TABLE**

CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE	SURFACE ELEVATION
1	250mmØ SAN OBV=59.99	200mmØ STM INV=60.50	0.5m±	63.14m
2	200mmØ WM OBV=61.22	200mmØ STM INV=61.72	0.5m±	63.62m
3	200mmØ WM OBV=60.75	HYDRO OTTAWA DUCT BANK INV=61.84±	1.74m±	63.16m



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555 ALBERT ST.  
OTTAWA ON  
K1R 7A3

SITE SERVICING PLAN

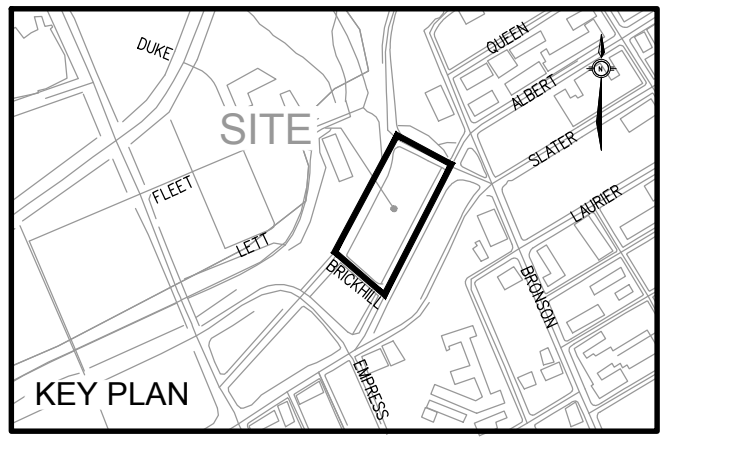
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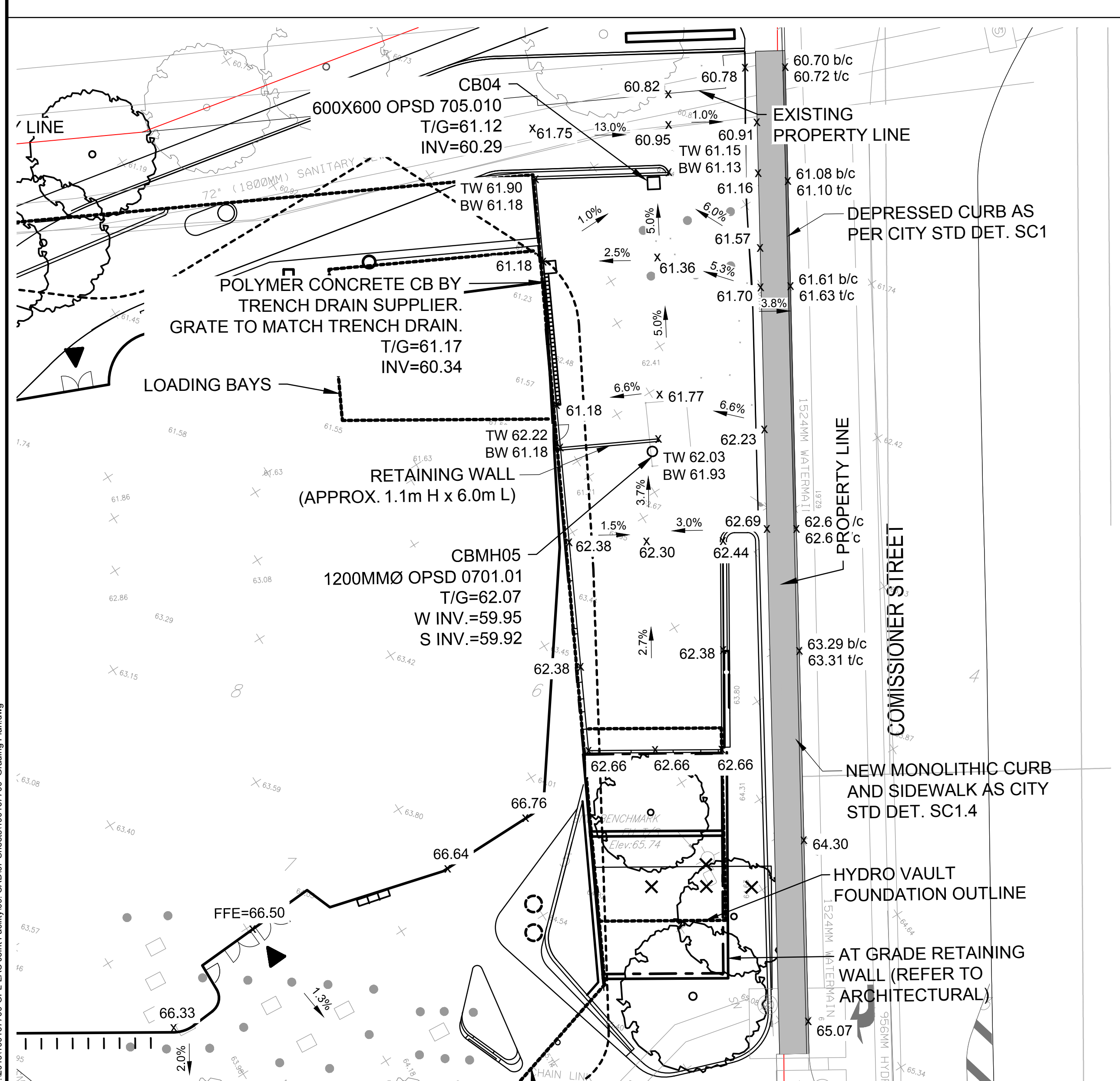
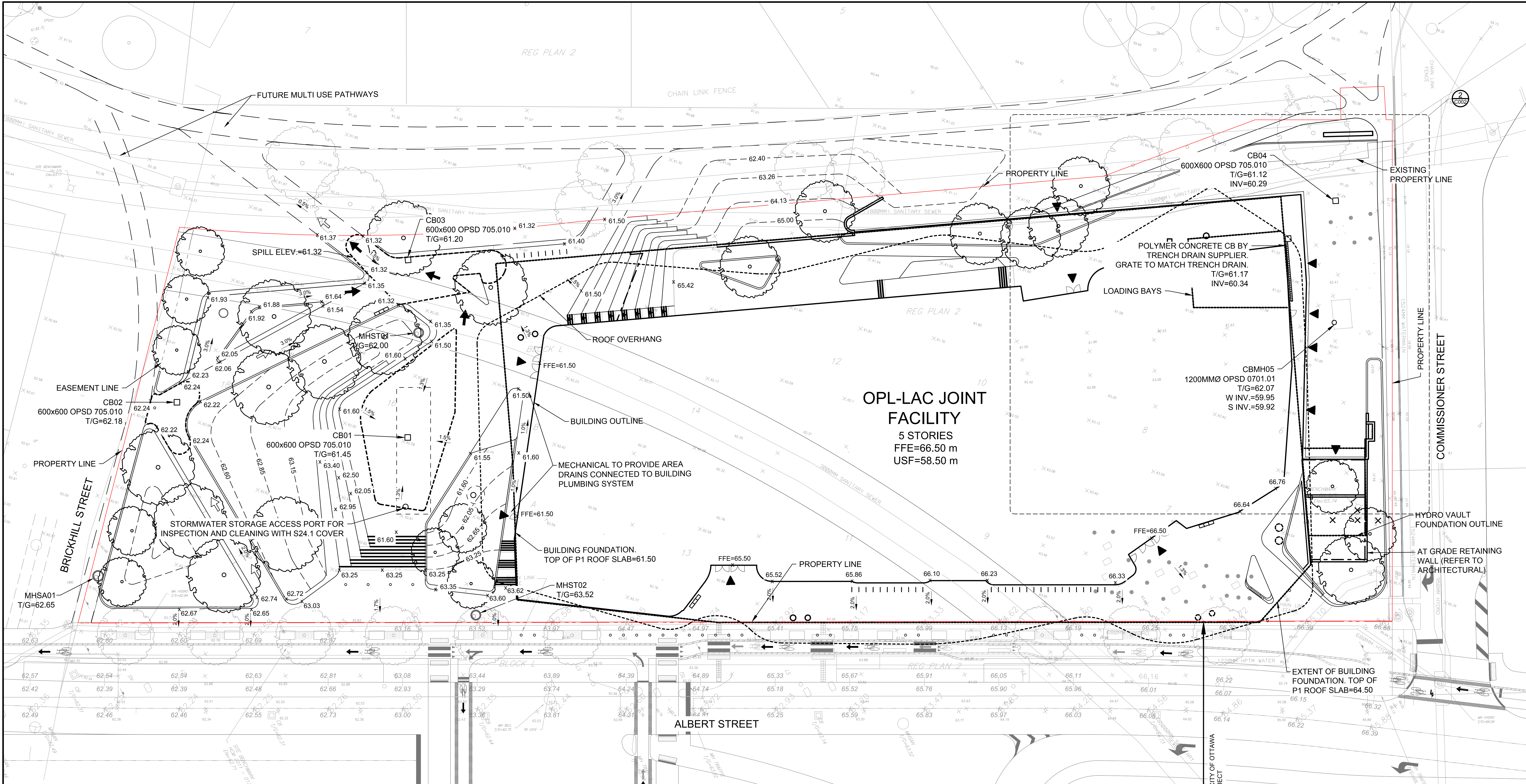


CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON THE JOB.  
 10% FINAL DRAWING  
 ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND SHALL BE KEPT BY THE ARCHITECT. NO REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.  
 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS ISSUED BY THE ARCHITECT.

**MH MORRISON HERSHFELD**  
 200-2532 BASELINE ROAD, OTTAWA, ON K2H 1B1



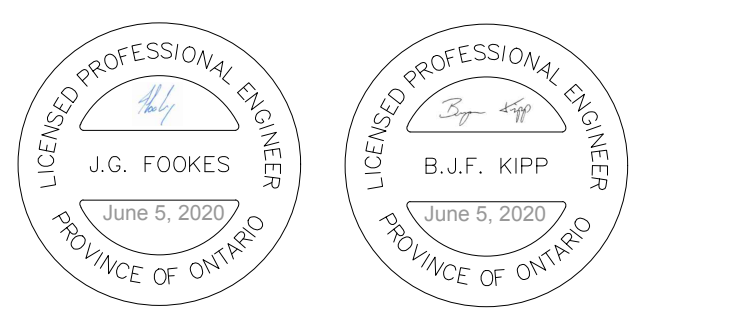
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 No. Date Description  
 0 05/06/20 ISSUED FOR SITE PLAN CONTROL



- NOTES:**
1. ALL ELEVATIONS ARE GEODETIC.
  2. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR LAYOUT, DIMENSIONS AND SURFACE FINISHES.
  3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS.
  4. ALL ELEVATIONS BY CURBS ARE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
  5. REFER TO GEOTECHNICAL INVESTIGATION REPORT (NO. 19131600 DATED FEBRUARY 20, 2020) PREPARED BY GOLDER ASSOCIATE FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL.
  6. REINSTATE ALL DISTURBED/DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER.
  7. PROVIDE POSITIVE DRAINAGE, MATCHING EXISTING OVERALL DRAINAGE PATTERN INDICATED.
  8. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA AND/OR ONTARIO PROVINCIAL STANDARDS.
  9. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED.
  10. AREAS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
  11. ALL AREAS SHALL DRAIN AT A MINIMUM OF 1% ANY DISCREPANCIES PREVENTING THIS SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WORK.
  12. BLEND NEW EARTHWORK INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDING AT ALL TOP AND BOTTOM OF SLOPES.
  13. CONCRETE SIDEWALKS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING SC1.4 AND SC1.4.
  14. CONCRETE BARRIER CURBS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING SC1.1.
  15. ALL SIDEWALKS CONSTRUCTED IN CITY ROW, SHALL BE MONOLITHIC CONCRETE CURB AND SIDEWALK PER STD. DETAIL SC 2 UNLESS OTHERWISE INDICATED.
  16. SAW CUT AND KEY GRIND ASPHALT AT ALL TIE-INS PER CITY OF OTTAWA STANDARD R10.
  17. PROVIDE LINE PAINTING.
  18. SNOW IS TO BE REMOVED FROM THE LOADING DOCK AND PARKING GARAGE RAMP. ON SITE SNOW STORAGE IS NOT PROPOSED FOR THESE AREAS.
  19. THE POSITION OF 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 THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, IN ADVANCE OF EXCAVATION WORK, AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION. HAND EXCAVATION IS REQUIRED PER UTILITY OWNERS REQUIREMENTS.

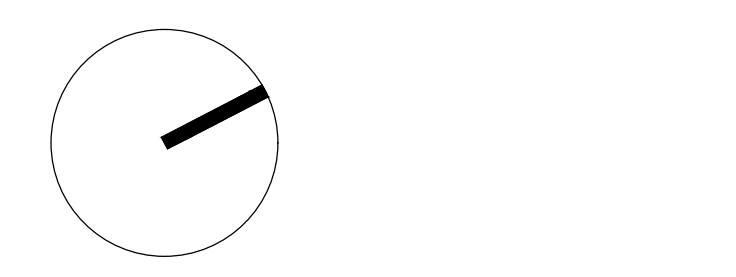
- UTILITY NOTE**
19. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, IN ADVANCE OF EXCAVATION WORK, AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION. HAND EXCAVATION IS REQUIRED PER UTILITY OWNERS REQUIREMENTS.

- LEGEND**
- NEW MANHOLE
  - NEW CATCH BASIN
  - x 61.60 PROPOSED ELEVATION
  - 61.60 EXISTING ELEVATION
  - 65.50 PROPOSED FINISH GRADE AT TOP OF WALL OR STEP
  - 63.28 PROPOSED FINISH GRADE AT BOTTOM OF WALL OR STEP
  - 63.28/2.0 PROPOSED TOP OF CURB ELEVATION
  - 2.0% PROPOSED SLOPE DIRECTION
  - DIRECTION OF MAJOR OVERLAND FLOW
  - DIRECTION OF EMERGENCY OVERLAND FLOW
  - PROPOSED CURB
  - DC PROPOSED DEPRESSED CURB
  - - - EMERGENCY SPILL ELEVATION
  - NEW SIDEWALK



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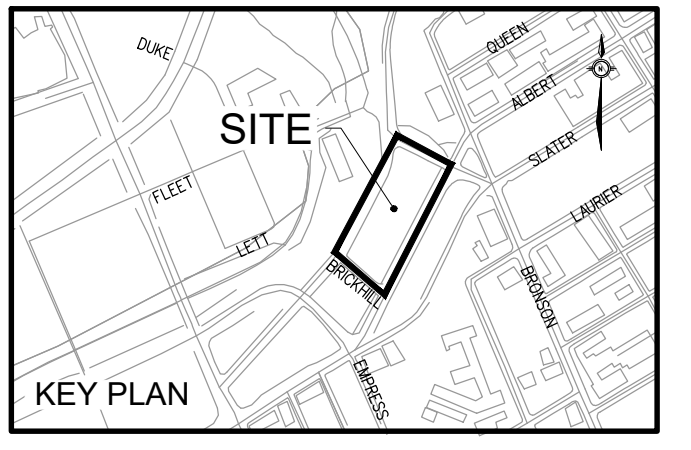
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 OTTAWA ON  
 K1R 7X3

GRADING PLAN

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 Date: 05/06/20

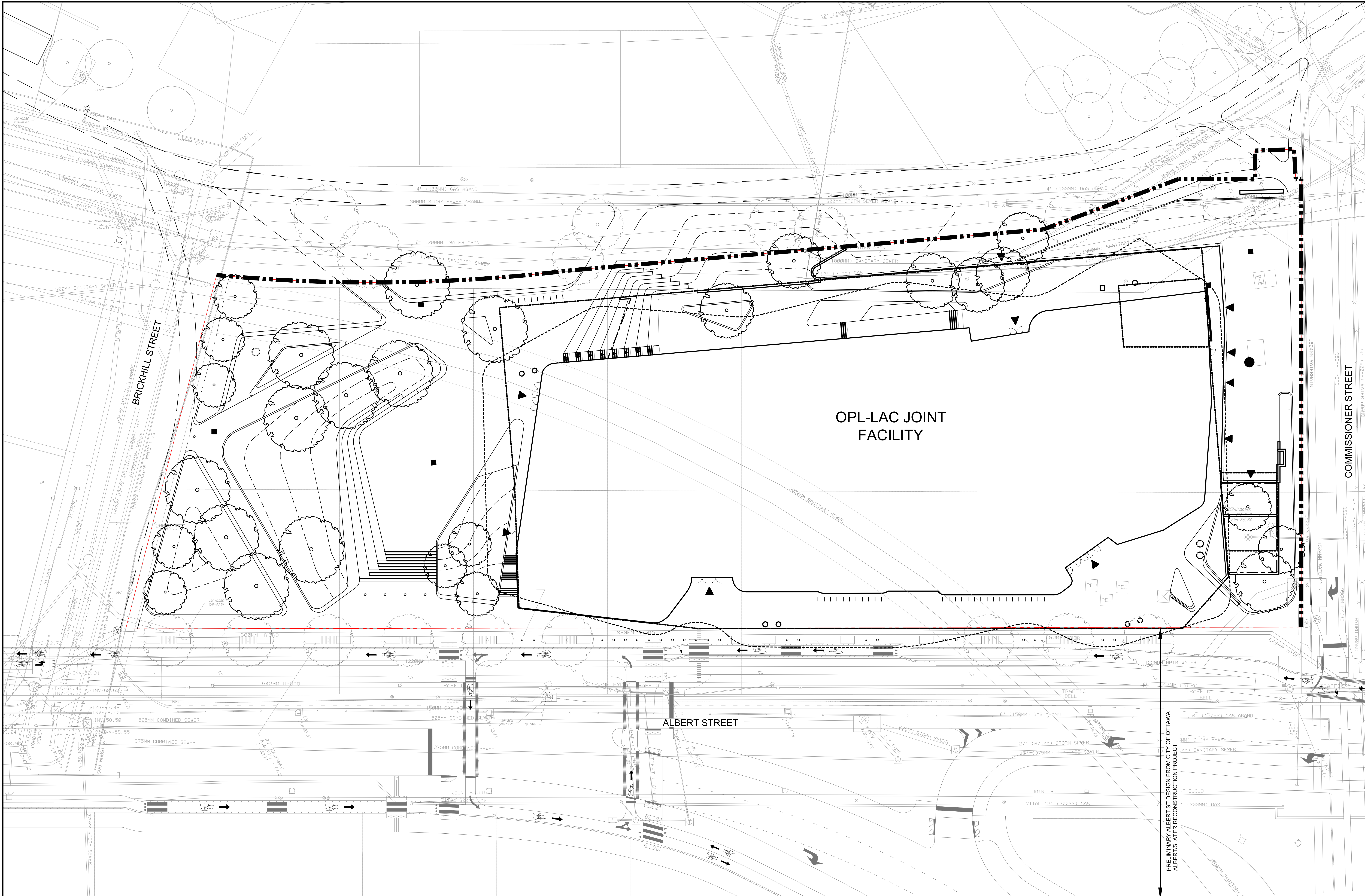
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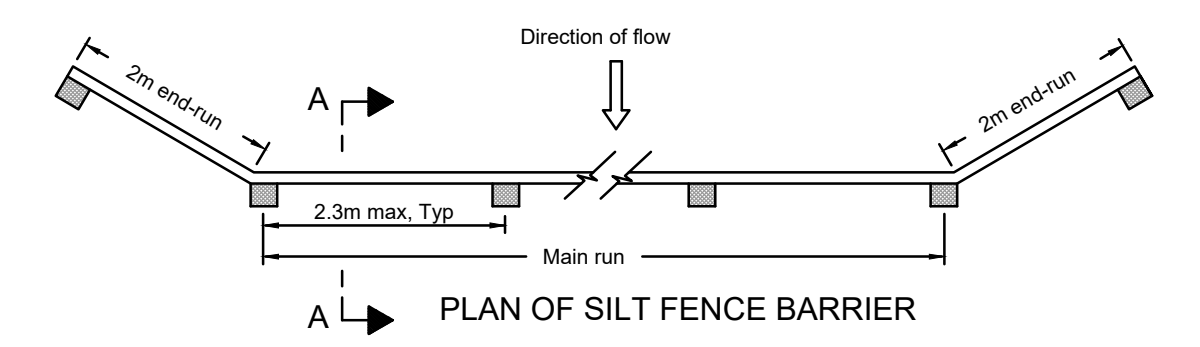
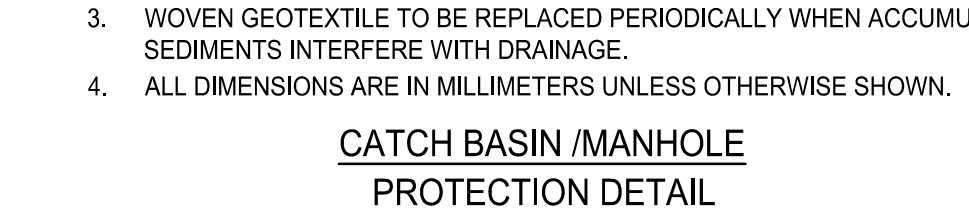
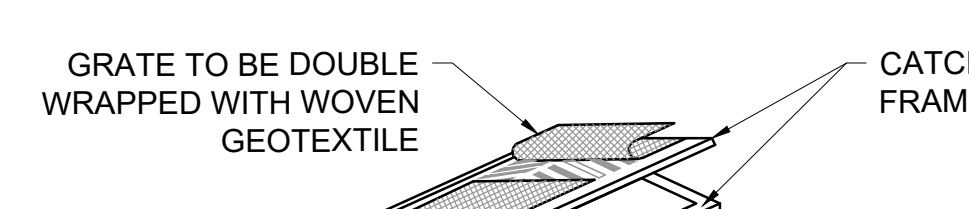
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**EROSION AND SEDIMENT CONTROL NOTES:**

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, USING FILTER CLOTH UNDER THE GRATES OF CATCHBASINS AND MANHOLES, AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY TO BE PAID FOR AT THE CONTRACTOR'S EXPENSE.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED AND APPROVAL IS GRANTED BY THE ENGINEER TO REMOVE MEASURES.
3. REGULAR INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENT MEASURES SHALL BE UNDERTAKEN. THE IMPLEMENTATION AND ADJUSTMENT AND/OR CORRECTIVE MAINTENANCE OF THE EROSION AND SEDIMENT MEASURES IS AN INTEGRAL PART OF THE PLAN AND MUST BE PERFORMED.
4. CATCH BASIN SEDIMENT PROTECTION SHALL BE PROVIDED FOR ALL CATCH BASINS, CATCH BASIN MAINTENANCE HOLES, DITCH INLETS AND OPEN GRATE MAINTENANCE HOLES WITHIN THE WORK AREA, WITHIN 50m OF THE WORK AREA, OR WHICH RECEIVE RUN-OFF FROM THE WORK AREA. CATCH BASIN INLET PROTECTION IS REQUIRED BOTH FOR EXISTING STRUCTURES INCLUDING STRUCTURES WHICH WILL BE REMOVED AS PART OF THE WORK AND NEW STRUCTURES INSTALLED AS PART OF THE WORK. CATCH BASIN SEDIMENT PROTECTION SHALL INVOLVE BOTH (i) WRAPPING GRATE WITH FILTER CLOTH, AND (ii) SURROUNDING CATCH BASIN WITH SEDIMENT CAPTURE FILTER SOCK. SEDIMENT CAPTURE FILTER SOCK SHALL BE STACKED (ON SOFT GROUND) OR HELD IN PLACE USING SANDBAGS (ON PAVED AREAS). CATCH BASIN SEDIMENT PROTECTION SHALL BE INSPECTED REGULARLY AND MAINTAINED AS NECESSARY. ANY VISIBLE ACCUMULATION OF SEDIMENT SHALL BE REMOVED AND DISPOSED OFF-SITE.
5. ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED ON A REGULAR BASIS AND FOLLOWING STORM EVENTS FOR INTEGRITY AND FUNCTION BY THE CONTRACTOR. ANY REQUIRED REPAIRS TO EROSION AND SEDIMENT CONTROL MEASURES TO BE COMPLETED WITHIN 24 HOURS.
6. ALL SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED BY THE CONTRACTOR AS NECESSARY. SEDIMENTS REMOVED FROM THE CONTROL MEASURES (SILT FENCES, CATCH BASIN SEDIMENT CONTROLS, ETC.) SHALL BE DISPOSED OF IN ACCORDANCE WITH MOECC GUIDELINES.
7. IF NECESSARY, ADDITIONAL SEDIMENT CONTROL MEASURES MAY BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE RIDEAU VALLEY CONSERVATION AUTHORITY.

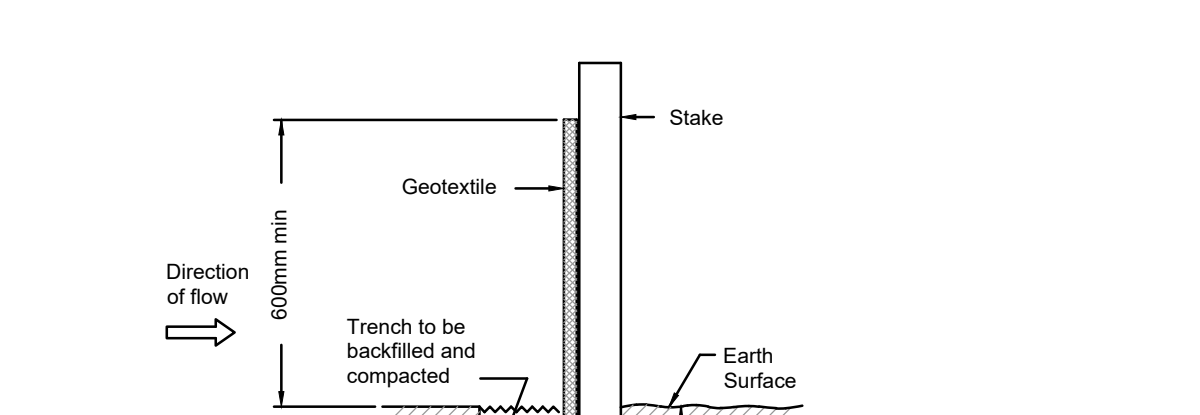
8. ONCE NEW CATCH BASINS ARE INSTALLED, GEOTEXTILE FILTER FABRIC SHALL BE PLACED AS PER NOTE 4, AND SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF CONSTRUCTION ACTIVITIES.
9. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.



PLAN OF SILT FENCE BARRIER

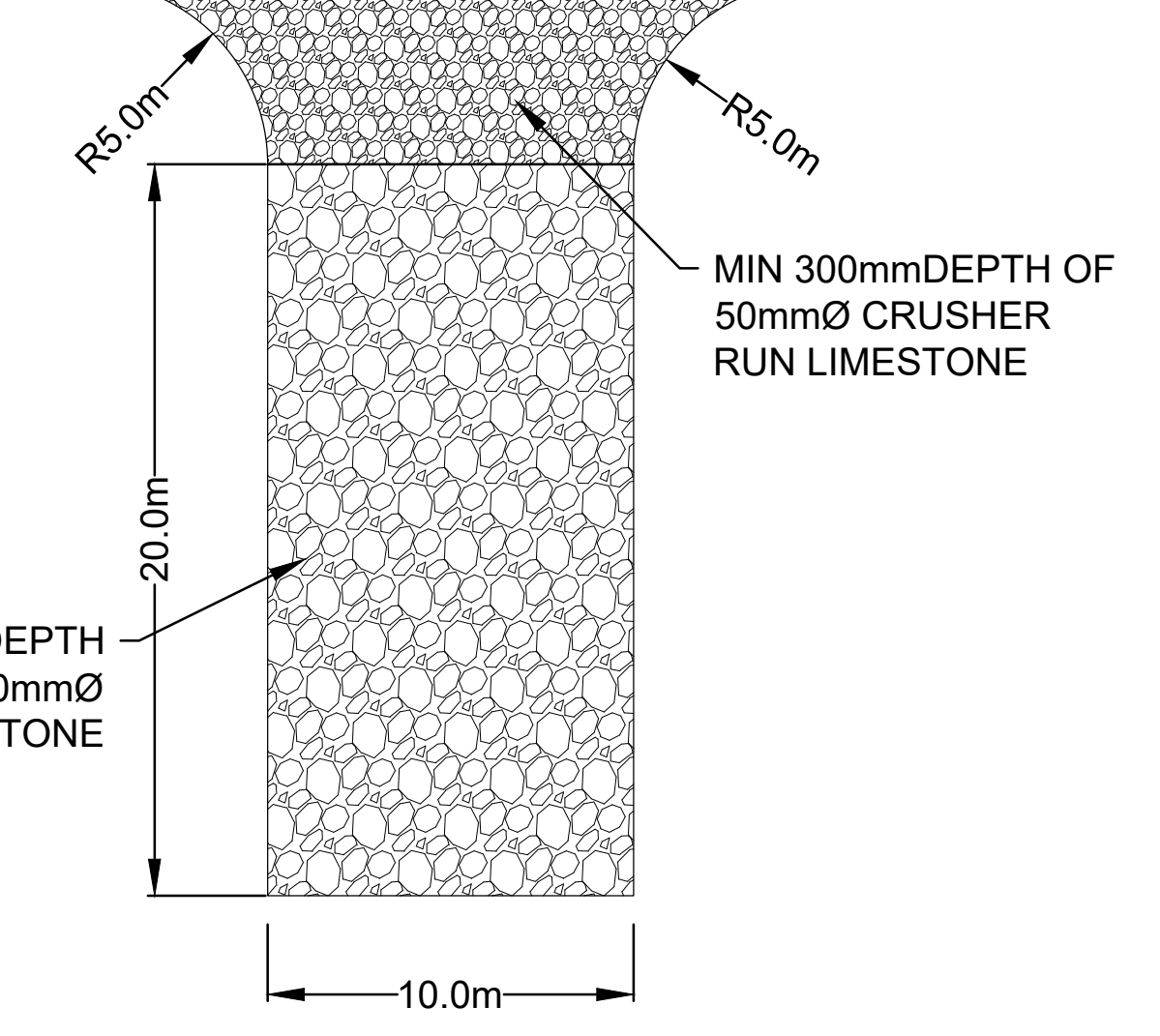
- NOTES:
1. WOVEN GEOTEXTILE TO HAVE A MINIMUM EQUIVALENT OPENING SIZE OF 0.15mm AND A MAXIMUM EQUIVALENT OPENING SIZE OF 0.25mm.
  2. WOVEN GEOTEXTILE TO HAVE A HORIZONTAL OVERLAP OF 100mm AT JOINTS.
  3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

LIGHT DUTY SILT FENCE BARRIER AS PER OPSD 219.110 N.T.S.



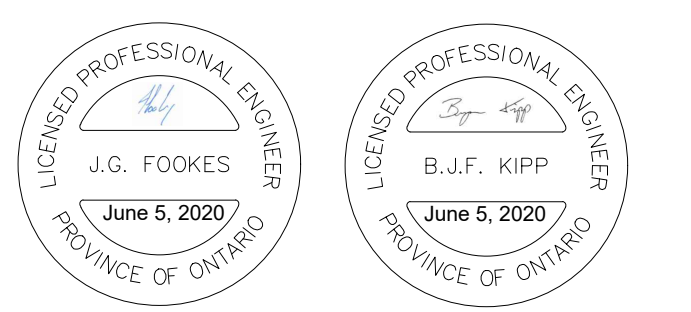
SECTION A-A

**TEMP. ASPHALT RAMP OR CURB CUT**



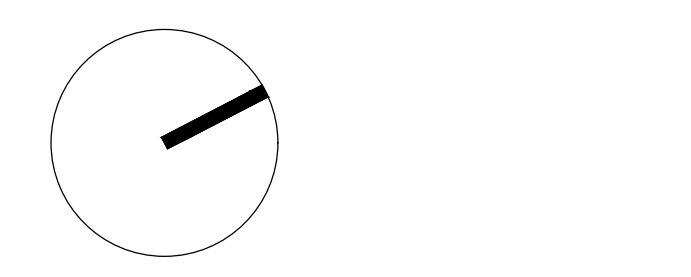
- NOTES:
1. INSTALL AT ALL SITE ACCESS LOCATIONS.
  2. TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED ON COMPLETION OF THE WORK AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

- LEGEND
- NEW CATCH BASINS SEDIMENT PROTECTION (SEE NOTE 8)
  - - - LIGHT DUTY SILT FENCE BARRIER (PER OPSD 219.110)



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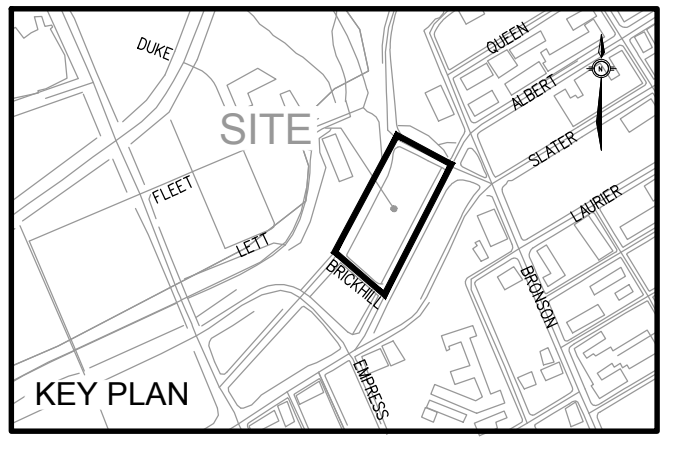
555 ALBERT ST.  
OTTAWA ON  
K1R 7X3

EROSION AND SEDIMENT CONTROL PLAN

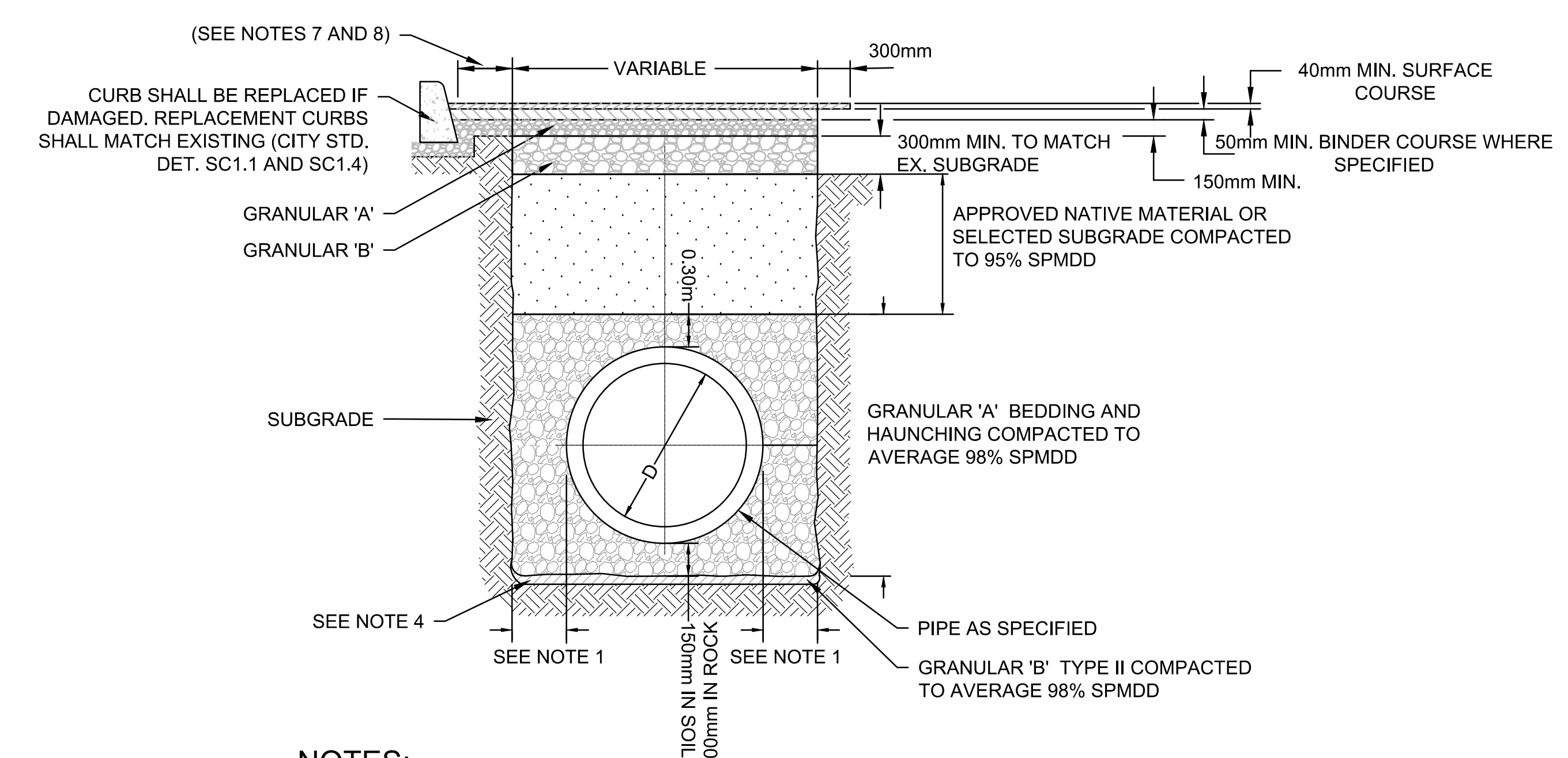
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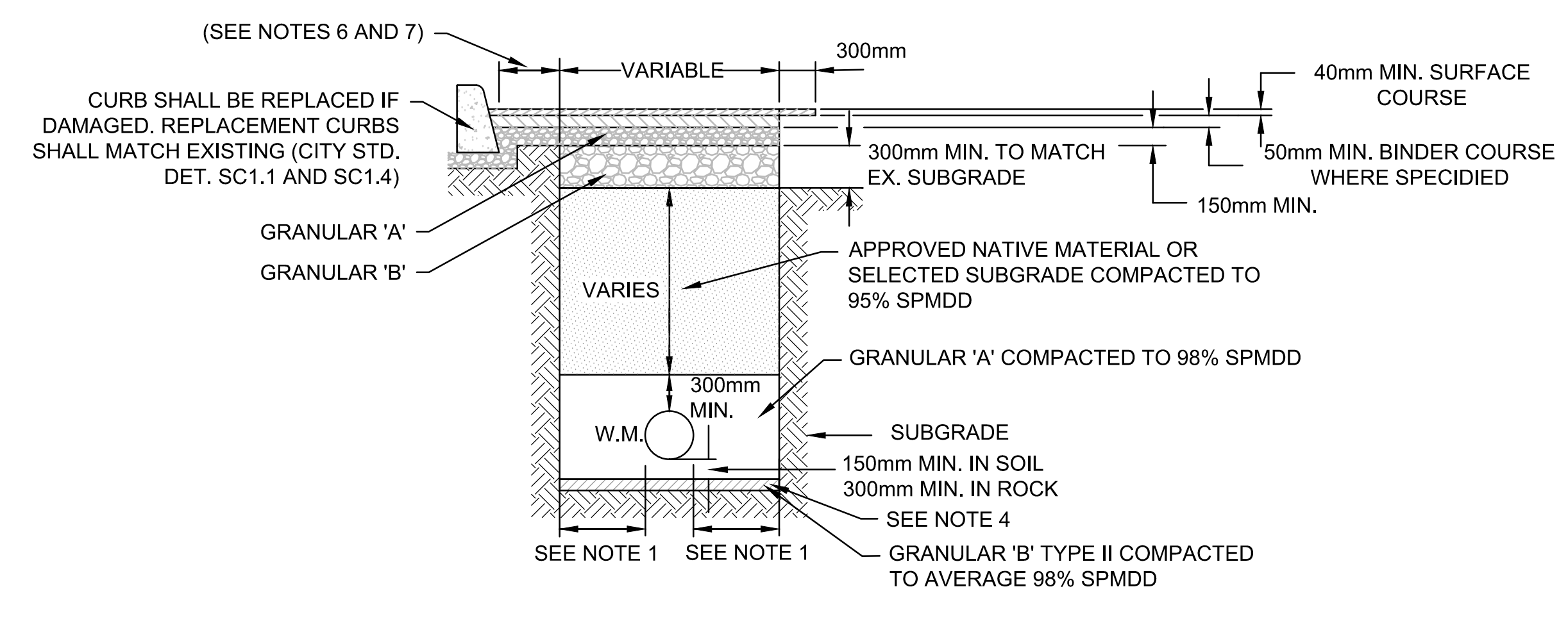
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 0 05/06/20 ISSUED FOR SITE PLAN CONTROL



**NOTES:**

- | PIPE INSIDE DIAMETER (mm) | CLEARANCE (mm)      |
|---------------------------|---------------------|
| 900                       | CONC 450<br>PVC 450 |
| OR LESS                   | 450                 |
| OVER 900                  | 500                 |
- FINAL BACKFILL - APPROVED NATIVE MATERIAL OR SELECT SUBGRADE
  - ALL DIMENSION ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.
  - WHEN NECESSARY POOR SOILS SHALL BE EXCAVATED TO CREATE A FOUNDATION THAT SHALL BE FILLED TO THE BOTTOM OF THE BEDDING WITH GRANULAR 'B'.
  - THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER IS NOT PERMITTED ANYWHERE ON THIS SITE.
  - ALL EXISTING ASPHALT AND CONCRETE REMOVAL LIMITS TO BE SAWCUT.
  - 300 MM KEY TO BE SAWCUT AND REMOVED OR MILLED.
  - ROAD REINSTATEMENT ON THE CURB SIDE OF THE TRENCH EXCAVATION SHALL EXTEND TO THE CURB FACE.
  - TACK COAT SHALL BE APPLIED TO ALL MILLED SURFACES
  - ALL EXISTING ASPHALT REMOVAL AND CONCRETE LIMITS TO BE SAWCUT

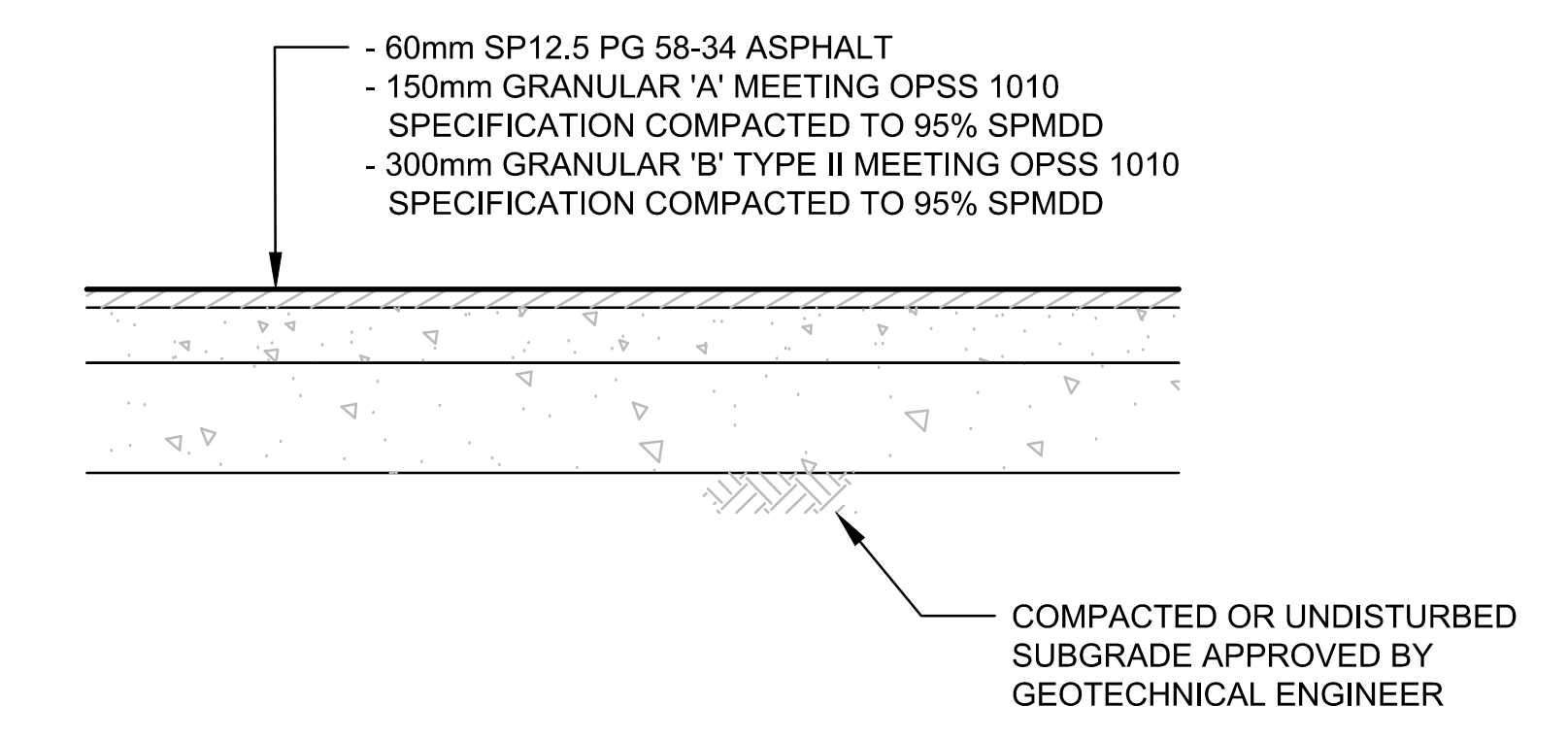
1 SEWER INSTALLATION  
 TYPICAL DETAIL  
 N.T.S.



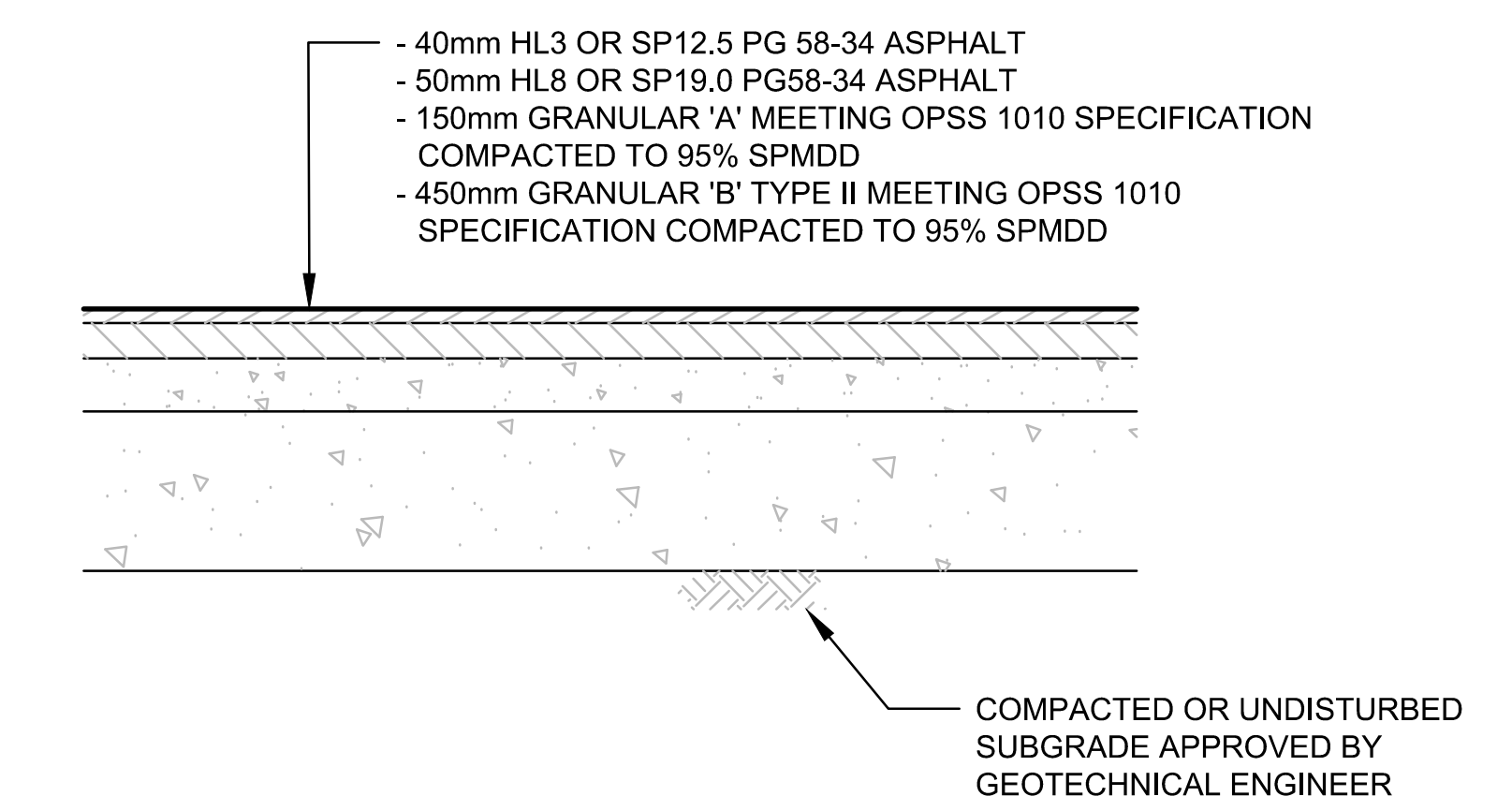
**NOTES:**

- | PIPE INSIDE DIAMETER (mm) | CLEARANCE (mm) |
|---------------------------|----------------|
| 900                       | 450            |
| OR LESS                   | 450            |
| OVER 900                  | 500            |
- ALL EXISTING ASPHALT REMOVAL AND CONCRETE LIMITS TO BE SAWCUT.
  - TRENCH SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL W17.
  - WHEN NECESSARY POOR SOILS SHALL BE EXCAVATED TO CREATE A FOUNDATION THAT SHALL BE FILLED TO THE BOTTOM OF THE BEDDING WITH GRANULAR 'B'.
  - THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER IS NOT PERMITTED ANYWHERE ON THIS SITE.
  - 300mm KEY TO BE SAWCUT AND REMOVED OR MILLED.
  - ROAD REINSTATEMENT ON THE CURB SIDE OF THE TRENCH EXCAVATION SHALL EXTEND TO THE CURB FACE.
  - TACK COAT SHALL BE APPLIED TO ALL MILLED SURFACES.

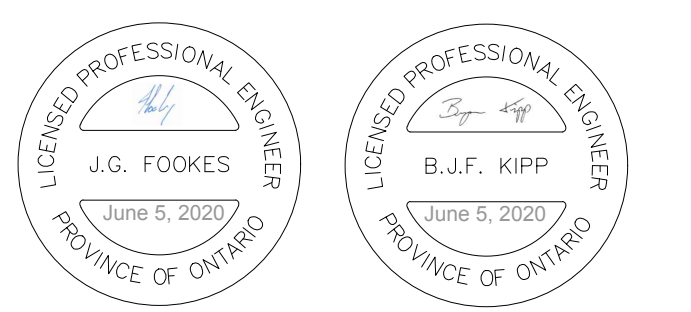
2 WATERMAIN INSTALLATION  
 TYPICAL DETAIL  
 N.T.S.



LIGHT DUTY PAVEMENT  
 N.T.S.

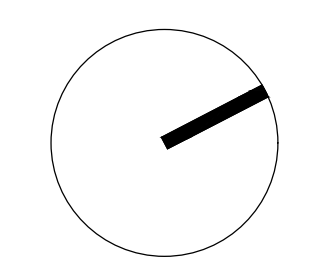


HEAVY DUTY PAVEMENT  
 N.T.S.



**PRELIMINARY**  
 NOT FOR CONSTRUCTION

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OPL - LAC JOINT FACILITY

555 ALBERT ST.  
 OTTAWA ON  
 K1R 7X3

DETAILS

Scale: 1:200  
 Project No: 1901877  
 Date: 05/06/20