



- NOTES: GENERAL**
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
  - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
  - JOB BENCH MARK - REFER TO SURVEY BY AOV LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
  - ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDS AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
  - STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
  - COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
  - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE PER CITY OF OTTAWA STD. R10.
  - CURBS TO BE CONCRETE BARRIER CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
  - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
  - ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS STANDARD AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPS 206, 310 & 314 MATERIALS TO OPS 1001, 1003 & 1010.
  - ABUTTING PROPERTY GRADE TO BE MATCHED.
  - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
  - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
  - FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
  - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING, AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
  - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
  - SEWER PERMITS, WATER PERMIT, ETC. THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.
  - REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
  - CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

- NOTES: SEWER**
- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
  - SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
  - ALL WORK SHALL BE PERFORMED AS APPLICABLE IN ACCORDANCE WITH OPS 407, AND 410.
  - CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
  - ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL.
  - STORM AND SANITARY LATERALS SHALL BE EQUIPPED WITH BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
  - CONTRACTOR TO CUT ALL NEW SEWERS, 250mmØ OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
  - PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOUNDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.
  - SEWER CONNECTIONS TO BE MADE ABOVE THE SPRINGLINE OF THE SEWER AS PER CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.

- NOTES: WATERMAIN**
- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
  - ALL WATER MAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE WHERE REQUIRED. PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23.
  - WATER MAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
  - CONCRETE THRUST BLOCKS AND RESTRAINING AS PER DETAILS ON DRAWING C103.
  - CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS.
  - IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
  - SEWER CONNECTIONS AND SHUT-OFFS BY CONTRACTOR.

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Stamp:

Stamp:

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**LEGEND:**

- EXISTING PROPERTY LINE
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB
- PROPOSED DEPRESSED CURB
- PROPOSED BUILDING OR STRUCTURE
- EXISTING WATERMAIN
- EXISTING V&VB
- EXISTING CURBSTOP
- EXISTING FIRE HYDRANT
- EXISTING WATERMAIN
- PROPOSED V&VB
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY SEWER AND MANHOLE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING STORM SEWER AND MANHOLE
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
- PROPOSED SUBDRAIN
- PROPOSED PIPE INSULATION
- PROPOSED BACKWATER VALVE
- PROPOSED REMOTE METER
- PROPOSED WATER METER
- PROPOSED DITCH
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED BOTTOM OF WALL GRADE
- PROPOSED TOP OF WALL GRADE
- PROPOSED TOP OF CURB GRADE
- PROPOSED TERRACING (MAX 3:1 SLOPE)
- PROPOSED RETAINING WALL
- PROPOSED TWSI AS PER SCT.3
- PROPOSED SILT FENCE AS PER OPSD 219.110
- SILT SACKS IN CATCH BASIN GRATE PER DETAIL D1
- PROPOSED STORM DRAINAGE AREA
- OVERLAND FLOW ROUTE
- STORM DRAINAGE AREA ID
- RUNOFF COEFFICIENT
- DRAINAGE AREA (Ha)

**SANITARY SEWER DATA**

LOCATION	TO	DIAMETER	MATERIAL	CLASS	LENGTH	INVERT ELEVATIONS	
FROM						UPSTREAM	DOWNSTREAM
CAP	SA MONITORING MH	150mm	PVC	SDR-35	1.7m	66.67	66.64
SA MONITORING MH	TEE	150mm	PVC	SDR-35	5.3m	66.61	66.50*

\*INVERT AT TOP BEND. CONNECT TO EXISTING PIPE AS PER CITY OF OTTAWA STD. S11, S11.1, AND S11.2.

**STORM SEWER DATA**

LOCATION	TO	DIAMETER	MATERIAL	CLASS	LENGTH	INVERT ELEVATIONS	
FROM						UPSTREAM	DOWNSTREAM
CAP	TEE	200mm	PVC	SDR-35	9.0m	66.62	66.44*
STLD-03	STLD-04	250mm	HDPE	-	29.8m	66.50	66.35
STLD-04	STLD-05	250mm	HDPE	-	29.8m	66.35	66.20
STLD-05	STCB-01	250mm	HDPE	-	1.3m	66.20	66.19
STCB-01	TEE	250mm	PVC	SDR-35	13.0m	65.91	65.78*

\*INVERT AT TOP BEND. CONNECT TO EXISTING PIPE AS PER CITY OF OTTAWA STD. S11, S11.1, AND S11.2.

**STORM MAINTENANCE HOLE DATA**

STRUCTURE	COVER	SIZE	STANDARD	T/G	ELEVATION
					INVERT
STCB-01	S19	600x600mm	OPSD 705.010	67.07	NW 66.19 (250mm) NE 65.91 (250mm)
STLD-03	S31	300mm	S31	66.93	NW 66.50 (250mm)
STLD-04	S30	300mm	S30	67.24	SW 66.35 (250mm) NE 66.35 (250mm)
STLD-05	S30	300mm	S30	67.21	SW 66.20 (250mm) SE 66.20 (250mm)

**CROSSING TABLE**

CROSSING No.	SEWER ELEV AT CROSSING	SEWER ELEV AT CROSSING	CLEARANCE
CR-01	STM, INV. 66.48	SAN, TOP. 64.39	2.09m
CR-02	STM, INV. 66.50	WM, TOP. 66.00	0.50m
CR-03	SAN, INV. 66.52	WM, TOP. 66.02	0.50m
CR-04	STM, INV. 65.82	SAN, TOP. 64.51	1.31m
CR-05	STM, INV. 65.81	WM, TOP. 65.31	0.50m

**SANITARY MAINTENANCE HOLE DATA**

STRUCTURE	COVER	SIZE	STANDARD	T/G	ELEVATION
					INVERT
SA MONITORING MH	S24	1200mm	OPSD 701.010	68.07	NE 66.64 (150mm) SW 66.61 (150mm)

**ROOF DRAIN DATA**

LOCATION	No. OF DRAINS	CONTROLLED FLOW (L/s)	MAX PONDIING DEPTH (mm)	STORAGE VOLUME (cu m)			
		5 YEAR	10 YEAR	5 YEAR	10 YEAR		
BUILDING	17	18.0	23.9	101.4	134.9	30.0	69.7

Project: **327 RICHMOND ROAD**

OTTAWA, ONTARIO

Drawing: **SITE SERVICING, GRADING, AND EROSION AND SEDIMENT CONTROL PLAN**

Scale: 1:200 Date: MAY 2020

Design By: MM Drawn By: SS

Project Number: 477093 Sheet Number: C101