

GENERAL NOTES	
1.	THE OWNERS PROFESSIONAL ENGINEER IS REQUIRED TO INSPECT THE INSTALLATION OF SERVICES AND FINAL GRADING INCLUDED IN THIS PROJECT IN ACCORDANCE WITH THE GENERAL REVIEW COMMITTEE CERTIFICATION PROCESS. THE CONTRACTOR IS TO PROVIDE AT LEAST 48 HOURS PRIOR TO ANY REQUIRED INSPECTION.
2.	THE OWNER/CONTRACTOR SHALL HAVE ITS PROFESSIONAL ENGINEER PROVIDE FULL-TIME INSPECTION DURING CONSTRUCTION ON ANY EXISTING CITY 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 CITY OF OTTAWA TO CONFORM TO CITY OF OTTAWA DESIGN GUIDELINES.
4.	MALLOT CREEK GROUP INC. IS NOT RESPONSIBLE FOR THE INFORMATION (EXISTING TOPOGRAPHY, BENCHMARKS, PROPERTY BOUNDARY, ETC.) PROVIDED BY OTHERS.
5.	CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES PRIOR TO THE START OF CONSTRUCTION.
6.	ALL DISTURBED AREAS TO BE REINSTATED TO MATCH EXISTING.
7.	ALL GRASSED AREAS TO BE REINSTATED WITH 100mm TOPSOIL AND NURSERY SOD (UNLESS NOTED OTHERWISE)
8.	ALL UNNOTED OTHERWISE.
9.	ALL CATCH BASINS IN VICINITY OF CONSTRUCTION TO BE PROTECTED WITH SILT SACKS AND INSPECTED ON A REGULAR BASIS. REMOVE ONCE CONSTRUCTION HAS BEEN COMPLETED.
10.	CONTRACTOR SHALL ENSURE COMPLIANCE WITH PART 3.8.3 'DESIGN STANDARDS' IN OBC 2012. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE LATEST VERSION OF OBC IS REFERENCED.
11.	ALL WORKS INVOLVED IN THE CONSTRUCTION, RELOCATION AND REPAIR OF CITY OF OTTAWA SERVICES FOR THE PROPOSED DEVELOPMENT SHALL BE TO THE SATISFACTION OF THE GENERAL MANAGER OF PUBLIC WORKS.
12.	STREET EXCAVATION PERMITS ARE REQUIRED FOR ANY WORK IN DAIRY DRIVE RIGHT-OF-WAY BY ANY CONTRACTOR.
13.	PRIVATE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL SERVICING, UTILITIES AND COSTS.
14.	REMOVE CURB AND POUR NEW CURB FOR ANY DRIVEWAYS OR DRIVEWAYS TO BE ABANDONED.
15.	STORM WATER DRAINAGE MUST NOT HAVE A NEGATIVE IMPACT ON ADJACENT PROPERTIES.
16.	DRIVEWAY SLOPES MUST BE 8% MAXIMUM, AND SIDEWALK CROSSES FALL 2% TO 4% MAXIMUM.
17.	ROOFTOP EQUIPMENT SHALL BE SCREENED FROM STREET VIEW.
18.	NO PERSON SHALL CONSTRUCT OR DEMOLISH A BUILDING OR CAUSE A BUILDING TO BE CONSTRUCTED OR DEMOLISHED (INCLUDING SITE SERVICING) UNLESS A BUILDING PERMIT HAS BEEN ISSUED THEREFORE BY THE CHIEF BUILDING OFFICIAL.

CONSTRUCTION NOTES	
1.	REFER TO THE SITE PLAN FOR LAYOUT DIMENSIONING AND SIGNPOST DETAILS.
2.	THE CONTRACTOR IS TO CONTACT THE CONSULTING ENGINEER FOR FINAL INSPECTION.
3.	THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES UNDER THE OCCUPATIONAL HEALTH AND SAFETY ACT AS REQUIRED UNDER THE MINISTRY OF LABOUR.
4.	THE CONTRACTOR IS TO REVIEW AND CONFIRM ALL EXISTING CONDITION INFORMATION & INFORM MALLOT CREEK GROUP INC. OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. MALLOT CREEK GROUP INC. IN NO WAY ACCEPTS RESPONSIBILITY FOR ANY INACCURACIES FOUND ON THIS PLAN RELATIVE TO EXISTING CONDITIONS FOR THE SITE.
5.	PRIOR TO THE COMMENCING OF 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 CONSULTING ENGINEER.
6.	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 THE WORK IS BEING DONE.
7.	STRIK FILL LENGTHS OF TOPSOIL IN AREAS TO BE DISTURBED AND STOCK PILE FOR RE-USE IN GRASSED/LANDSCAPED AREAS.
8.	CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT INVERTS AND GRADES. RECORD ANY DEVIATION OF PIPE OR STRUCTURE LOCATION INVOLVED WITH THIS PROJECT AND CONTRACTOR TO PROVIDE A COPY OF THE AS-BUILT DRAWING SHOWING ALL CHANGES CLEARLY MARKED IN RED.
9.	THE CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINES IN 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 TO THE SATISFACTION OF THE TOWN'S ENGINEER.
10.	THE CONTRACTOR SHALL INFORM THE LOCAL TRANSIT COMMISSION AT LEAST ONE WEEK PRIOR TO COMMENCING CONSTRUCTION ON ANY STREET THAT HAS A PUBLIC BUS ROUTE THAT WILL BE AFFECTED BY CONSTRUCTION.
11.	THE CONTRACTOR IS RESPONSIBLE FOR:
11.1.	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.
11.2.	ENSURING THAT THERE IS NO INTERRUPTION OF ANY SURFACE OR SUBSURFACE DRAINAGE FLOW THAT WOULD ADVERSELY AFFECT NEIGHBOURING PROPERTIES.
12.	NO FOUNDATION DRAIN CONNECTIONS WILL BE PERMITTED INTO THE SANITARY SEWERS AND NO DIRECT GRAVITY CONNECTIONS FROM THE FOUNDATION DRAINS WILL BE PERMITTED TO THE STORM SYSTEM UNLESS THE STORM SYSTEM HAS THE CAPACITY TO PROVIDE FOR SUCH CONNECTION TO THE SATISFACTION OF THE CITY ENGINEER WORK ON OR ADJACENT TO THE CITY R.O.W. SHALL BE COMPLETED IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL, BOOK 7 LATEST EDITION.

UTILITIES NOTES	
1.	THE UTILITIES PROVIDERS MUST BE INFORMED AT LEAST TWO WEEKS PRIOR TO THE CONSTRUCTION ON ANY EXISTING CITY ROAD ALLOWANCE, ALL EXISTING UNDERGROUND SERVICE OR UTILITIES WITHIN THE LIMITS OF THE CONSTRUCTION SITE SHALL BE LOCATED AND MARKED. ANY UTILITIES, DAMAGED OR DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE GOVERNING BODY AT THE CONTRACTOR'S EXPENSE.
2.	ALL EXISTING UNDERGROUND UTILITIES (TELEPHONE, HYDRO, GAS, CABLE, SEWER, WATERMANS, 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.
3.	CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
4.	CONTRACTOR TO COORDINATE WITH UTILITIES PROVIDER FOR BRACING, DECOMMISSIONING AND/OR RELOCATION OF EXISTING GAS, HYDRO, TELEPHONE, CABLE, ETC. SERVICES, IF REQUIRED.

SERVICING NOTES	
1.	ALL STORM AND/OR SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY GUIDELINES, AND CONFORM TO CITY OF OTTAWA DESIGN STANDARDS, AND THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
2.	ALL SITE SERVICES SHALL BE INSTALLED TO 1.0m OUTSIDE FOUNDATION WALL.
3.	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% SPMD (100% FOR PAVED SURFACES). THE FILL MATERIAL SHOULD COMPRISE OF CLEAN, COMPRESSIBLE 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 MEC'S PERMIT TO TAKE WATER, IF REQUIRED) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5.	ALL PROPOSED STORM AND SANITARY SEWER PIPE TO BE AS NOTED ON PLAN OR CITY APPROVED PIPE, WITH BEDDING AS PER OPS202.010. ALL SEWER BACKFILL MUST BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY (MINIMUM) (100% FOR PAVED AREAS).
6.	THE MINIMUM DEPTH OF A STORM SEWER SHALL BE 2.0m AND 2.5m FOR SANITARY. FROM THE FINISHED GROUND ELEVATION TO THE CROWN OF THE PIPE AS PER CITY OF OTTAWA DESIGN STANDARDS, WHERE MINIMUM DEPTHS CANNOT BE ACHIEVED AND THEREFORE FROST PROTECTION IS WARRANTED, INSULATION IS REQUIRED AS PER CITY OF OTTAWA STD. DWG. W22.



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ACTING MANAGER, DEVELOPMENT REVIEW, EAST
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DEPARTMENT, CITY OF OTTAWA

APPROVED
By Geraldine Wildman at 3:44 pm, Mar 09, 2023

RESTORATION NOTES	
1.	ALL WORK IN THE CITY ROAD ALLOWANCE SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. THE CONTRACTOR IS REQUIRED TO OBTAIN A PAY FOR PERMIT TO WORK IN CITY 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 CITY RIGHT-OF-WAY TO THE SATISFACTION OF THE CITY ENGINEER, ALL AT NO COST TO THE CITY:
2.1	GRASSED AREAS TO BE RESTORED w/ MIN 100mm TOPSOIL + SEED
2.2	CONCRETE SIDEWALK TO O.P.S.D. 310.010 CONCRETE SIDEWALK
2.3	CONCRETE CURB AND GUTTER AS SPECIFIED ON DRAWINGS
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 (88% SPMD MIN.)
2.4.2	MILL ADJACENT ASPHALT TO BE TIED INTO, 50mm DEEP x 500mm WIDE PRIOR TO RESTORATION SEE DETAIL ON DWG. C410
2.4.3	MIN. RECOMMENDED ON-SITE HEAVY-DUTY PAVEMENT STRUCTURE (TO BE REVIEWED & APPROVED BY THE GEOTECHNICAL ENGINEER)
-	40mm HL3 SURFACE ASPHALT COMPACTED TO 97% MARSHAL MIX DESIGN BULK DENSITY
-	50mm HL8 BINDER ASPHALT COMPACTED TO 97% MARSHAL MIX DESIGN BULK DENSITY
-	ASPHALT TO BE SUPPLIED AND PLACED IN ACCORDANCE WITH OPS3 310 & 1150
-	150mm OF GRANULAR A COMPACTED TO 100% SPMD
-	450mm OF GRANULAR B COMPACTED TO BE 100% SPMD
2.4.4	MIN. RECOMMENDED ON-SITE LIGHT-DUTY PAVEMENT STRUCTURE - (TO BE REVIEWED & APPROVED BY THE GEOTECHNICAL ENGINEER)
-	50mm HL3 SURFACE ASPHALT COMPACTED TO 97% MARSHAL MIX DESIGN BULK DENSITY
-	ASPHALT TO BE SUPPLIED AND PLACED IN ACCORDANCE WITH OPS3 310 & 1150
-	150mm OF GRANULAR A COMPACTED TO 100% SPMD
-	300mm OF GRANULAR B COMPACTED TO BE 100% SPMD
3.	RESTORE ALL PAVEMENT MARKINGS TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS AND MARKINGS SHALL BE COMPLETED IN ACCORDANCE WITH OPS3 710 'CONSTRUCTION SPECIFICATION FOR PAVEMENT MARKING'
4.	ALL EXTERIOR HORIZONTAL CONCRETE SHALL BE 32 MPa AT 28 DAYS c/w 5-8% AIR ENTRAINMENT
5.	ALL AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL NOT BE DISTURBED. ANY DAMAGE TO THOSE AREAS ARE TO BE REPAIRED AT THE CONTRACTORS EXPENSE TO THE EXISTING CONDITIONS, OR ABOVE NOTED SPECIFICATIONS, WHICHEVER IS GREATER.

SEDIMENT & EROSION CONTROL NOTES	
1.	ALL SILT FENCING TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY AREA GRADING, EXCAVATING, AND DEMOLITION.
2.	EROSION CONTROL FENCING TO BE PLACED AROUND THE BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT A MINIMUM OF 2.5m FROM ALL PROPERTY LINES.
3.	EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MANHOLES AND/OR CATCH BASINS.
4.	ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
5.	EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY BY ENGINEER AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF ONE THIRD (1/3) THE HEIGHT OF THE SILT FENCING.
6.	ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RE-STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
7.	NO ALTERNATIVE METHODS OF EROSION CONTROL PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY ENGINEER AND THE CITY OF OTTAWA.
8.	THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE CITY OF OTTAWA ROADWAY AND SIDEWALKS AT THE END OF EACH WORK DAY.
9.	ENGINEER TO MONITOR THE SITE DEVELOPMENT TO ENSURE ALL EROSION CONTROLS ARE INSTALLED AND MAINTAINED TO THE CITY OF OTTAWA REQUIREMENTS. CONTRACTOR TO COMPLY WITH THE ENGINEER'S INSTRUCTIONS TO INSTALL, MODIFY, OR MAINTAIN EROSION CONTROL WORKS.

GENERAL GRADING + ENVIRONMENTAL NOTES	
WHILE UNDERTAKING CLEARING, DEMOLITION, EXCAVATION OR CONSTRUCTION THE OWNER AND THEIR CONTRACTORS SHALL BE VIGILANT FOR THE POTENTIAL PRESENCE OF UNDERGROUND FUEL TANKS, POTENTIALLY CONTAMINATED SOIL OR GROUNDWATER, BURIED WASTES OR ABANDONED WATER WELLS. IF ANY OF THE ABOVE ARE ENCOUNTERED OR SUSPECTED, THE OWNER SHALL ENSURE THAT:	
1.	THE CITY OF OTTAWA ENVIRONMENT DIVISION IS ADVISED THAT CONTAMINANTS OR WASTES HAVE BEEN DISCOVERED OR ARE SUSPECTED
2.	ANY SOIL OR GROUNDWATER CONTAMINATION ENCOUNTERED IS REMEDIATED TO APPLICABLE STANDARDS AS DEFINED WITHIN;
3.	ANY WASTES GENERATED BY SITE CLEAN-UPS ARE MANAGED IN ACCORDANCE WITH APPLICABLE LAWS AND STANDARDS;
4.	ANY ABANDONED FUEL TANKS ENCOUNTERED ARE DECOMMISSIONED IN ACCORDANCE WITH APPLICABLE LAWS AND STANDARDS;
5.	ANY UNUSED WATER WELLS (DRILLED OR DUG) ARE PROPERLY ABANDONED IN ACCORDANCE WITH ONTARIO REGULATION 903 - WELLS OR AS REVISED;
6.	IF IT APPEARS LIKELY THAT CONTAMINATION EXTENDS BEYOND THE BOUNDARIES OF THE SUBJECT PROPERTY, THE OWNER NOTIFIES THE LOCAL OFFICE OF THE MINISTRY OF THE ENVIRONMENT AND THE CITY OF OTTAWA ENVIRONMENT DIVISION;
7.	CONSTRUCTION WASTES ARE NOT TO BE BURIED WITHIN THE PROPERTY THAT IS THE SUBJECT OF THIS AGREEMENT, AND THAT THE OWNER AND THEIR CONTRACTORS REPORT ALL SPILLS TO THE MINISTRY OF THE ENVIRONMENT'S SPILLS ACTION CENTRE.
8.	ALL SLOPES GRADED TO A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL

GENERAL NOTES FOR PRECAST CONCRETE CHAMBERS	
1.	ALL PRECAST CHAMBERS TO BE SUPPLIED BY A MANUFACTURER CERTIFIED UNDER THE OCCA PLANT PREQUALIFICATION PROGRAM
2.	SUBMIT SHOP DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR INFORMATION. ALL DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN ONTARIO.
3.	THE MANUFACTURER SHALL PROVIDE LETTERS SIGNED BY A PROFESSIONAL ENGINEER CERTIFYING THE FOLLOWING:
3.1	THAT THE DESIGN OF THE PRECAST UNITS MEETS THE REQUIREMENTS OF THE SPECIFICATIONS
3.2	THAT THE PRECAST UNITS HAVE BEEN MANUFACTURED AS PER DESIGN AND INSPECTED IN ACCORDANCE WITH THE PLANT PREQUALIFICATION PROGRAM.
4.	PROVIDE CONCRETE WITH MINIMUM STRENGTH OF 35 MPa UNLESS A HIGHER STRENGTH IS REQUIRED BY THE MANUFACTURER OR DESIGNER.
5.	REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CSA G30.18 WITH A MINIMUM YIELD STRENGTH OF Fy=400 MPa
6.	REFER TO ONTARIO PROVINCIAL STANDARD DRAWINGS FOR CHAMBER DETAILS PERTAINING TO WATERPROOFING, JOINT SEALING, ADJUSTMENT UNITS, FRAMES & COVERS, CHAMBER STEPS AND LADDERS, INSULATION, FROST STRAPS, VALVE STEM EXTENSION AND BRACKETS, PUMPS, VALVE AND PIPE SUPPORTS.
7.	ALL PRECAST COMPONENTS SHALL BE DESIGNED AND MANUFACTURED TO CSA STANDARD A23.3 AND CSA STANDARD A23.4. FURTHER, ALL PRECAST CHAMBER COMPONENTS, INCLUDING ACCESS HATCHES AND TOP SLABS, SHALL ALSO MEET THE REQUIREMENTS OF CSA STANDARD S6 (CANADIAN HIGHWAY BRIDGE CODE).

LIST OF PROVINCIAL STANDARDS:

SEDIMENT AND EROSION CONTROL	
OPSD 0219.1000	LIGHT DUTY STRAW BALE BARRIER
OPSD 0219.1100	LIGHT DUTY SILT FENCE BARRIER
OPSD 0219.1300	HEAVY DUTY SILT FENCE BARRIER
OPSD 0219.1800	STRAW BALE FLOW CHECK DAM
OPSD 0220.0100	BARRIER FOR TREE PROTECTION
ENTRANCES	
OPSD 0310.0100	CONCRETE SIDEWALK
OPSD 0310.0200	CONCRETE SIDEWALK ADJACENT TO CURB AND GUTTER
OPSD 0310.0500	CONCRETE SIDEWALK DRIVEWAY ENTRANCE DETAILS
OPSD 0350.0100	URBAN, INDUSTRIAL, COMMERCIAL AND APARTMENT ENTRANCES

FRAMES AND GRATES	
CATCH BASINS	
OPSD 0400.0100	CAST IRON, SQUARE FRAME WITH SQUARE OVERFLOW TYPE DISHED GRATE FOR CATCH BASINS, HERRING BONE OPENINGS
OPSD 0400.0200	CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS
OPSD 0400.0210	CAST IRON, SQUARE FRAME FOR CURB INLET OVERFLOW
OPSD 0400.0800	CAST IRON, SIDE INLET FOR CATCH BASINS
OPSD 0400.0810	CAST IRON, SQUARE FRAME FISH TYPE COVER
OPSD 0400.0820	CAST IRON, RAISED CURB INLET FRAME WITH COVER FOR CATCH BASINS OUT OF ROADWAY
OPSD 0400.0900	CAST IRON, CURB INLET OVERFLOW FOR CATCH BASINS

MAINTENANCE HOLES ACCESSORIES	
OPSD 0401.0100	CAST IRON, SQUARE FRAME WITH CIRCULAR OR OPEN COVER FOR MAINTENANCE HOLES
OPSD 0401.0200	CAST IRON, CIRCULAR FRAME WITH CIRCULAR 745mm COVER FOR MAINTENANCE HOLES
OPSD 0401.0300	CAST IRON, SQUARE FRAME WITH CIRCULAR WATERTIGHT COVER FOR MAINTENANCE HOLES
OPSD 0401.0400	CAST IRON, RAISED SQUARE FRAME WITH CIRCULAR OR OPEN COVER FOR MAINTENANCE HOLES
OPSD 0401.0500	CAST IRON, RAISED SQUARE FRAME WITH CIRCULAR WATERTIGHT COVER FOR MAINTENANCE HOLES
HOLES	
OPSD 0403.0110	RAISED BAR GRATE FOR DITCH INLET 600x600
OPSD 0405.0100	MAINTENANCE HOLE STEPS, HOLLOW
OPSD 0405.0200	MAINTENANCE HOLE STEPS, SOLID

CURBS AND GUTTERS	
OPSD 0600.0100	CONCRETE BARRIER CURB WITH WIDE GUTTER
OPSD 0600.0200	CONCRETE SEMI-MOUNTABLE CURB WITH WIDE GUTTER
OPSD 0600.0300	CONCRETE MOUNTABLE CURB WITH WIDE GUTTER
OPSD 0600.0400	CONCRETE BARRIER CURB WITH STANDARD GUTTER FOR FLEXIBLE PAVEMENT
OPSD 0600.0600	CONCRETE SEMI-MOUNTABLE CURB WITH STANDARD GUTTER
OPSD 0600.0700	CONCRETE BARRIER CURB WITH STANDARD GUTTER - TWO STAGE CONSTRUCTION
OPSD 0600.0800	CONCRETE BARRIER CURB WITH NARROW GUTTER
OPSD 0600.0900	CONCRETE SEMI-MOUNTABLE CURB WITH NARROW GUTTER
OPSD 0600.1000	CONCRETE MOUNTABLE CURB WITH NARROW GUTTER
OPSD 0600.1100	CONCRETE BARRIER CURB
OPSD 0605.0400	ASPHALT SPILLWAYS
OPSD 0608.0100	METHOD OF TERMINATION FOR CONCRETE CURB & GUTTERS

STRUCTURES	
MAINTENANCE HOLES	
OPSD 0701.0100	PRECAST CONCRETE MAINTENANCE HOLE 1200 mm DIAMETER
OPSD 0701.0110	PRECAST CONCRETE MAINTENANCE HOLE 1500 mm DIAMETER
OPSD 0701.0120	PRECAST CONCRETE MAINTENANCE HOLE 1800 mm DIAMETER
OPSD 0701.0130	PRECAST CONCRETE MAINTENANCE HOLE 2400 mm DIAMETER
OPSD 0701.0140	PRECAST CONCRETE MAINTENANCE HOLE 3000 mm DIAMETER
OPSD 0701.0150	PRECAST CONCRETE MAINTENANCE HOLE 3600 mm DIAMETER
OPSD 0701.0210	MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES CBS
OPSD 0705.0100	PRECAST CONCRETE CATCH BASIN, 600 mm x 600 mm
OPSD 0705.0200	PRECAST CONCRETE TWIN INLET CATCH BASIN, 600 mm x 1450 mm
OPSD 0804.0400	CONCRETE HEADWALL FOR SEWER OR CULVERT PIPE OUTLET

SANITARY	
OPSD 1003.0100	CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE
OPSD 1003.0200	CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE WYE
OPSD 1003.0300	INTERNAL DROP STRUCTURE FOR EXISTING MAINTENANCE HOLES
OPSD 1003.0310	INTERNAL DROP STRUCTURE FOR NEW MAINTENANCE HOLES

WATER	
OPSD 1104.0100	WATER SERVICE CONNECTION, 19mm AND 25 mm DIAMETER SIZES
OPSD 1104.0200	WATER SERVICE CONNECTION, 32, 38 AND 50 mm DIAMETER SIZES
OPSD 1104.0300	BLOW OFF INSTALLATION
OPSD 1105.0100	HYDRANT INSTALLATION

OCCUPANCY SIGN-OFF AND RELEASE OF SECURITIES	
THE FOLLOWING INSPECTIONS AND TESTS ARE TO BE COMPLETED/PROVIDED PRIOR TO THE ISSUING OF SIGN-OFF LETTERS FOR OCCUPANCY AND THE RELEASE OF SECURITIES FROM THE MUNICIPALITY/TOWN. CONTRACTOR TO PROVIDE MINIMUM 48 HOURS NOTICE OF WHEN THE BELOW WORK IS TO BE COMPLETED SO MALLOT CREEK GROUP CAN ENSURE REPRESENTATION ON SITE. CONTRACTOR TO NOTIFY MALLOT CREEK GROUP AT ONSET OF CONSTRUCTION AND INVITE MALLOT CREEK GROUP TO PRE-CONSTRUCTION MEETING.	
1. MALLOT CREEK GROUP TO PERFORM:	
a.	SEDIMENT AND EROSION CONTROL INSPECTION AT ONSET OF CONSTRUCTION
b.	PIPE INSULATION INSPECTION PRIOR TO BACKFILLING IN ACCORDANCE WITH CITY STANDARDS
c.	PRE-ASPHALT GRADING INSPECTION
d.	PRE-TOPSOIL AND SEED/SOD INSPECTION
e.	SWM POND INSPECTION PRIOR TO LANDSCAPE/SODDING
f.	ROUTINE INSPECTIONS WHEN UNDERGROUND SERVICING WORK IS BEING COMPLETED
g.	INSPECTIONS FOR ANY WORK COMPLETED IN THE RIGHT-OF-WAY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE CITY TO OBTAIN THE NECESSARY PERMITS FOR WORK WITHIN THEIR RIGHT-OF-WAY
2. MALLOT CREEK GROUP TO WITNESS:	
a.	LOW PRESSURE AIR TEST ON ALL PVC STORM AND SANITARY SEWERS IN ACCORDANCE WITH OPS3 410.07.16.04.03
b.	MANDREL TEST FOR ALL PVC STORM AND SANITARY SEWERS IN ACCORDANCE WITH OPS3 410.07.16.05
c.	CHLORINATION TEST ON WATER SERVICES (BOTH SAMPLES) IN ACCORDANCE WITH CITY STANDARDS
d.	PRESSURE TEST ON WATER SERVICE IN ACCORDANCE WITH CITY STANDARDS
3. MALLOT CREEK GROUP TO RECEIVE:	
a.	SHOP DRAWINGS FOR REVIEW FOR ALL STRUCTURES INCLUDING BUT NOT LIMITED TO: RETAINING WALLS, MAINTENANCE AND CATCHBASIN MAINTENANCE HOLE STRUCTURES, HEADWALLS, GUARD RAILS, ETC. PRIOR TO MANUFACTURING.
b.	AS-BUILT INVERTS FOR ALL UNDERGROUND SERVICES AND TIG FOR ALL STRUCTURES
c.	GEOTECHNICAL LETTER FOR SIGN OFF OF BACKFILL AND COMPACTION OF ALL SEWERS
SUBSTANTIAL COMPLETION SIGN-OFF PRIOR TO ISSUING OF SIGN-OFF LETTERS FOR SUBSTANTIAL COMPLETION, A FINAL WALKTHROUGH SHALL BE CONDUCTED BY THE ENGINEER OF RECORD AND DEFICIENCY LIST SHALL BE COMPILED AND SENT TO THE CONTRACTOR FOR RECTIFICATION.	

FIRE ACCESS ROUTE DESIGN NOTES:	
1.	FIRE ACCESS ROUTE SHALL HAVE A CLEAR WIDTH NOT LESS THAN 6m.
2.	FIRE ACCESS ROUTE SHALL HAVE A CENTRELINE RADIUS NOT LESS THAN 12m.
3.	FIRE ACCESS ROUTE SHALL HAVE AN OVERHEAD CLEARANCE NOT LESS THAN 5m.
4.	FIRE ACCESS ROUTE SHALL HAVE A CHANGE IN GRADIENT NOT MORE THAN 1 IN 12.5 OVER A MINIMUM DISTANCE OF 15m.
5.	FIRE ACCESS ROUTE SHALL BE DESIGNED TO SUPPORT THE EXPECTED LOADS IMPOSED BY FIREFIGHTING EQUIPMENT AND BE SURFACED WITH CONCRETE, ASPHALT OR OTHER MATERIAL DESIGNED TO PERMIT ACCESSIBILITY UNDER ALL CLIMATIC CONDITIONS.
6.	FIRE ACCESS ROUTE SHALL BE CONNECTED TO A PUBLIC THOROUGHFARE.

LEGEND	
	SITE PROPERTY LINE
	MUNICIPAL ZONING SETBACK
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF CONCRETE
	EXISTING CURB
	PROPOSED CURB
	PROPOSED CHAINLINK FENCE
	EXISTING TOP OF SLOPE
	EXISTING BOTTOM OF SLOPE
	EXISTING DITCH
	PROPOSED WATERMAIN
	EXISTING WATERMAIN
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
	PROPOSED SANITARY SEWER
	EXISTING SANITARY SEWER
	EXISTING OVERHEAD WIRE
	PROPOSED GAS UTILITY
	EXISTING GAS UTILITY
	PROPOSED HEAVY DUTY SILT FENCING
	ITEM TO BE REMOVED
	IRON BAR
	STANDARD IRON BAR
	EXISTING MONITORING WELL
	EXISTING BOREHOLE
	SLOPE MARKERS
	STRAW BALE FLOW CHECK DAM
	UTILITY POLE
	LIGHT POLE
	BELL PED
	GAS METER
	TRANSFORMER
	BARRIER FREE
	CATCHBASIN
	CATCHBASIN MAINTENANCE HOLE
	DOUBLE CATCHBASIN
	DITCH INLET CATCHBASIN
	HEADWALL
	SANITARY/PROCESS MANHOLE
	SANITARY CLEANOUT
	WATERMAIN VALVE
	FIRE HYDRANT
	BLOW OFF
	ROOF LEADER
	SIAMESE CONNECTION
	TAPPING SLEEVE AND VALVE AND BOX
	VALVE AND BOX
	GRADE SPOT ELEVATION
	FLOW DIRECTION ARROW
	GRADE SLOPE
	CONIFEROUS TREE
	DECIDUOUS TREE
	TREE TO BE REMOVED
	OVERHEAD DOOR
	MAN DOOR ENTRANCE
	BARRIER FREE MAN DOOR ENTRANCE
	PRIMARY ENTRANCE
	BOLLARD
	SIGNAGE
	BUILDING OUTLINE
	PROPOSED ASPHALT SURFACE
	PROPOSED CONCRETE SURFACE
	PROPOSED LANDSCAPED AREA
	PROPOSED GRAVEL SURFACE
	FIRE ROUTE
	SNOW STORAGE

DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS SEALED BY A PROFESSIONAL ENGINEER. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE HEALTH AND SAFETY ACT.

No.	DATE	REVISION	BY
1	2021.09.10	ISSUED FOR SITE PLAN APPROVAL	GB
2	2022.08.24	ISSUED FOR OWNERS REVIEW	AT
3	2022.09.07	ISSUED FOR SECOND SPA SUBMISSION	AT

LEGAL INFORMATION
PART OF
LOT 29
CONCESSION 1 (OLD SURVEY)
GEOGRAPHIC TOWNSHIP OF CUMBERLAND
CITY OF OTTAWA
FORMERLY IN THE CITY OF CUMBERLAND