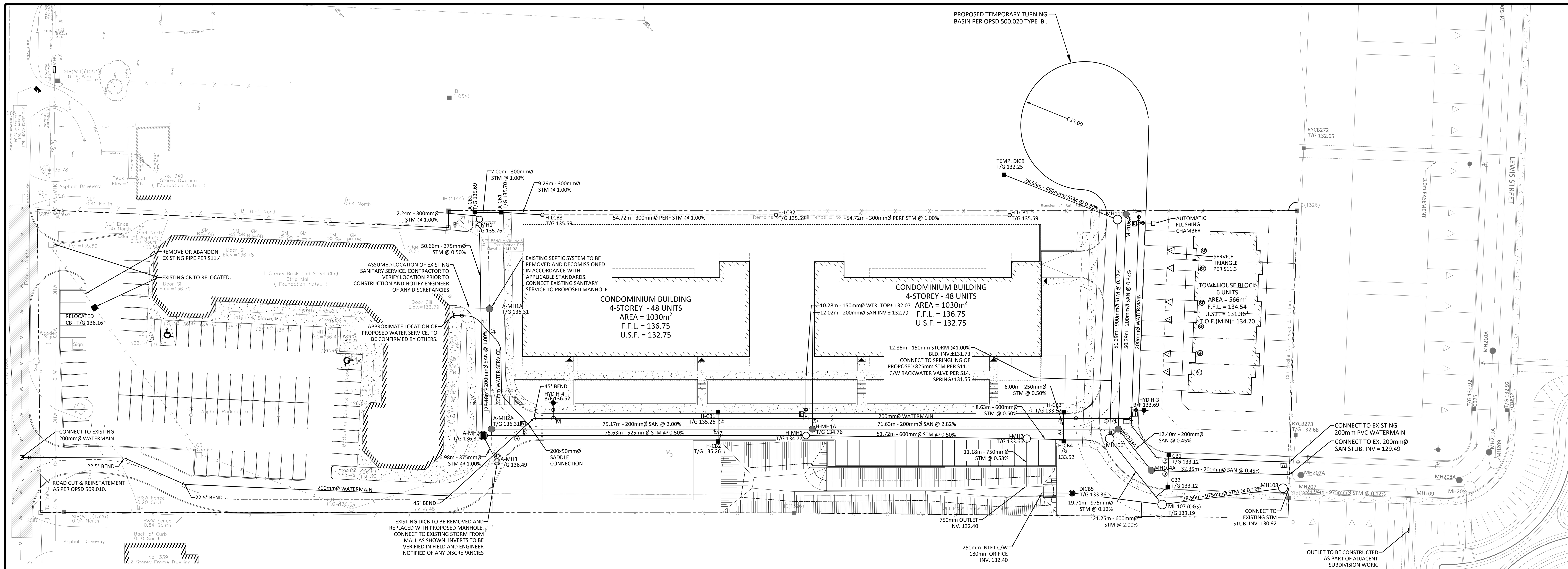
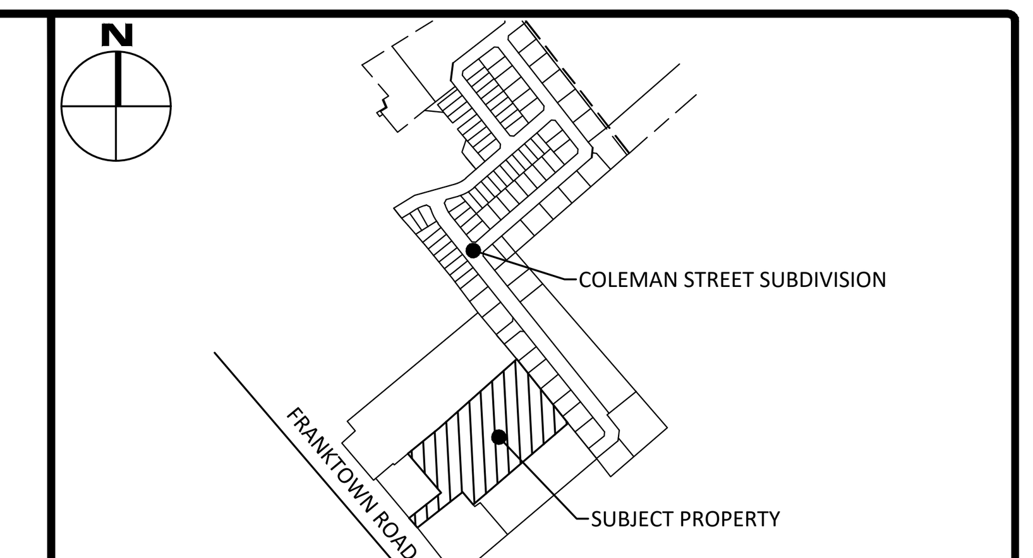


CONTRACTOR TO VERIFY ALL EXISTING SEWERS, SERVICES, AND WATERMAIN LOCATIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.



LOCATION PLAN

LEGEND

- BARRIER CURB / DC CURB DEPRESION
- PROPERTY BOUNDARY
- HEAVY DUTY ASPHALT
- RETAINING WALL
- CONCRETE SIDEWALK
- PAVING STONE
- MH7 STORM MANHOLE
- CB6 DI6 CATCHBASIN OR DITCH INLET
- ECB4 LANDSCAPE CATCHBASIN
- MH7A SANITARY MANHOLE
- PERFORATED PIPE IN SWALES
- WATER VAVLE/CHAMBER
- FIRE HYDRANT
- CENTRELINE OF SWALE
- SLOPING AT 3:1 (UNLESS SPECIFIED)
- 95.94 PROPOSED ELEVATION / 93.20 EXISTING ELEVATION
- ×95.94 (S) SWALE ELEVATION
- ×T/W100.50 TOP OF WALL ELEVATION / B/W90.50 BOTTOM OF WALL ELEVATION
- EMERGENCY OVERLAND FLOW ROUTE
- AREA DRAIN
- (M) (RM) METER/REMOTE METER
- ○ DS DOWNSPOUT
- SILT FENCE BARRIER (AS PER OPSD 219.130)
- STRAW BALE CHECK DAM (AS PER OPSD 219.180)
- O/H BUILDING ENTRANCE OVERHEAD DOOR
- (RM) REMOTE WATER METER
- (SP) SUMP PUMP
- (M) WATER METER
- MISC. ROCK BOULDER
- SEDIMENT CONTROL DEVICE

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

STORM STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
A-CB1	135.70	NE133.630	SW133.610	COVER OPSD 400.020 FRAME OPSD 400.020 STRUCT. OPSD 705.010
A-CB2	135.69	NE133.540	E133.522	COVER OPSD 400.020 FRAME OPSD 400.020 STRUCT. OPSD 705.010
A-MH1	135.76	W133.500	SE133.483	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.010
A-MH2	136.30	NW133.230 E133.230	NE133.168	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.012
A-MH3	136.49		W133.300	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.010
CB1	133.12		SE131.677	COVER OPSD 400.020 FRAME OPSD 400.020 STRUCT. OPSD 705.010
CB2	133.12	NW131.600	S131.565	COVER OPSD 400.020 FRAME OPSD 400.020 STRUCT. OPSD 705.010
DICB5	133.36	SW132.259	NE131.960	COVER TYPE B 6H:1V GRATE OPSD 403.010 STRUCT. OPSD 705.040 TYPE B
H-CB1	135.26		SE133.820	COVER OPSD 401.080 FRAME OPSD 400.082 STRUCT. OPSD 705.010
H-CB2	135.26	NW133.760	N133.460	COVER OPSD 401.080 FRAME OPSD 400.082 STRUCT. OPSD 705.010
H-CB3	133.52		SE132.570	COVER OPSD 401.080 FRAME OPSD 400.082 STRUCT. OPSD 705.010
H-CB4	133.52	NW132.540	SW132.533	COVER OPSD 401.080 FRAME OPSD 400.082 STRUCT. OPSD 705.010
H-LCB1	135.59		SW134.837	AS PER CITY OF OTTAWA STANDARD DRAWING S31
H-LCB2	135.59	NE134.290	SW134.277	AS PER CITY OF OTTAWA STANDARD DRAWING S30
H-LCB3	135.59	NE133.730	SW133.723	AS PER CITY OF OTTAWA STANDARD DRAWING S30
H-MH1	134.77	SW132.790	NE132.759	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.010
H-MH2	133.66	SW132.500 NE132.490	SE132.460	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.011
MH106	133.39	NW131.100	E131.044	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.012
MH107 (OGS)	133.19	W131.020 SW131.535	NE130.980	OGS PER DETAILS
MH108	133.23	SW130.946	NE130.920	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.012
MH111	133.92	W131.190	SE131.162	COVER TYPE B FRAME OPSD 401.010 STRUCT. OPSD 701.012
TEMP. DICB	132.25		E131.418	GRATING OPSD 403.010 STRUCT. OPSD 705.030

CROSSING CONFLICT TABLE		
LOCATION	DESCRIPTION	SEPARATION
1	250mmØ CB LEAD INV 132.57 200mmØ WTR MAIN OBV 131.14	1.43
2	250mmØ CB LEAD INV 132.55 200mmØ SAN SEWER OBV 130.35	2.20
3	825mmØ STM SEWER INV 131.11 200mmØ WTR MAIN OBV 130.61	0.50
4	200mmØ SAN SEWER OBV 129.96 200mmØ WTR MAIN INV 130.75	0.79
5	200mmØ SAN SERVICE OBV 132.09 200mmØ WTR MAIN INV 132.39	0.30
6	250mmØ CB LEAD INV 133.78 200mmØ SAN SEWER OBV 132.47	1.31
7	250mmØ CB LEAD INV 133.77 600mmØ STM SEWER OBV 133.49	0.28
8	200mmØ SAN SEWER OBV. 133.39 200mmØ WTR MAIN INV. 133.92	0.53
9	200mmØ WTR MAIN INV 134.03 600mmØ STM SEWER OBV 133.73	0.30
10	825mmØ STM SEWER INV 131.12 200mmØ SAN SEWER OBV 130.04	1.08
11	50mmØ WTR SERVICE INV 134.08 200mmØ SAN SEWER OBV 133.78	0.30
12	50mmØ WTR SERVICE INV 134.04 375mmØ STM SEWER OBV 133.74	0.30
13	200mmØ WTR MAIN INV 133.93 375mmØ STM SEWER OBV 133.63	0.30
14	200mmØ WTR MAIN OBV 132.89 250mmØ STM SEWER INV 133.83	0.94
15	200mmØ WTR MAIN OBV 130.75 250mmØ STM SEWER INV 131.68	0.93
16	200mmØ SAN SEWER OBV 129.82 250mmØ STM SEWER INV 131.65	1.83

WATER COVER TABLE				
LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
A - COLEMAN CONNECTION	0+100.00	133.30	130.95	2.35
45° BEND	0+131.11	133.19	130.79	2.40
45° BEND	0+140.79	133.32	130.92	2.40
200 X 200 TEE (I)	0+142.41	133.34	130.94	2.40
200 X 150 TEE (J)	0+144.41	133.36	130.96	2.40
200 X 5O TEE (K)	0+188.27	133.89	131.49	2.40
200mmØ VALVE	0+189.61	133.91	131.51	2.40
STUB	0+190.94	133.92	131.52	2.40
I - 200 X 200 TEE	0+200.00	133.34	130.94	2.40
200mmØ VALVE	0+203.01	133.51	131.11	2.40
200 X 150 TEE (L)	0+276.23	134.77	132.61	2.16
200 X 150 TEE (M)	0+335.41	136.25	133.85	2.40
45° BEND	0+339.98	136.34	133.94	2.40
200 X 50 SADDLE (N)	0+341.83	136.34	134.03	2.31
45° BEND	0+366.84	136.55	134.15	2.40
22.5° BEND	0+428.82	136.05	133.65	2.40
22.5° BEND	0+444.32	136.25	133.85	2.40
200mmØ VALVE	0+466.46	136.33	±133.93	±2.40
FRANKTOWN CONNECTION	0+468.46	136.38	±133.98	±2.40
J - 200 X 150 TEE	0+500.00	133.36	130.96	2.40
150mmØ VALVE	0+501.00	133.34	130.94	2.40
HYDRANT H-3	0+502.86	133.54	131.14	2.40
K - 200 X 50 TEE	0+600.00	133.89	131.49	2.40
50mmØ VALVE	0+601.00	133.87	131.47	2.40
FLUSHING CHAMBER	0+603.00	133.89	131.49	2.40
L - 200 X 150 TEE	0+700.00	134.77	132.61	2.16
150mmØ VALVE	0+702.00	134.91	132.51	2.40
BUILDING CONNECTION	0+709.53	136.31	132.07	4.24
M- 200 X 150 TEE	0+800.00	136.25	133.85	2.40
150mmØ VALVE	0+802.00	136.39	133.99	2.40
HYDRANT H-4	0+803.68	136.42	134.02	2.40
N - 200 X 50 SADDLE	0+900.00	136.34	134.03	2.31
50mmØ VALVE	0+932.56	136.49	±134.09	±2.40
EX. BLDG CONNECTION	0+934.54	136.55	±134.15	±2.40

**WHERE 2.4m COVER CANNOT BE MET, PROVIDE INSULATION PER OPSD 1109.030
**PROVIDE VERTICAL BENDS AS REQUIRED TO MEET THE ELEVATIONS SPECIFIED WITHIN THE CROSSING TABLE.

SAN STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
A-MH1A	136.31		SE133.642	COVER TPYE A FRAME OPSD 401.010 STRUCT. OPSD 701.010
A-MH2A	136.31	NW133.360	NE133.333	COVER TPYE A FRAME OPSD 401.010 STRUCT. OPSD 701.010
H-MH1A	134.76	SW131.830 NW131.840	NE131.810	COVER TPYE A FRAME OPSD 401.010 STRUCT. OPSD 701.010
MH103A	133.46	SW129.790 NW129.750	E129.726	COVER TYPE A FRAME OPSD 401.010 STRUCT. OPSD 701.010
MH104A	133.25	W129.670	NE129.636	COVER TYPE A FRAME OPSD 401.010 STRUCT. OPSD 701.010
MH106A	133.98		SE129.913	COVER TYPE A FRAME OPSD 401.010 STRUCT. OPSD 701.010

GENERAL NOTES

1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
2. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) ANNIS, O'SULLIVAL, VOLLEBEKK LTD. SURVEY PLAN #21513-21, DATED JULY 5, 2021 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
3. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.
5. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
6. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
7. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
9. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS.
11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE CITY.
12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
13. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR SOD.
14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
15. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL AGENCY:
    - ELECTRICAL SERVICE - HYDRO ONE,
    - GAS SERVICE - ENBRIDGE,
    - TELEPHONE SERVICE - BELL CANADA,
    - TELEVISION SERVICE - ROGERS.
17. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL AND THE CITY.
18. ALL PROPOSED CURB SHALL BE CONCRETE BARRIER CURB UNLESS SPECIFIED.
19. ALL EXISTING REDUNDANT PRIVATE APPROACHES FRONTING THIS DEVELOPMENT MUST BE REMOVED TO THE SATISFACTION OF THE CITY.
20. NO EXCESS DRAINAGE, EITHER DURING OR AFTER CONSTRUCTION, IS TO BE DIRECTED TOWARDS NEIGHBORING PROPERTIES.
21. NO ALTERATION OF EXISTING GRADES AND DRAINAGE PATTERNS ON PROPERTY BOUNDARIES.

WATERMAIN NOTES

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY OR TOWNSHIP STANDARDS.
2. INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE 'K' SOFT.
3. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARD DWG W22.
4. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
5. USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP AS PER CITY OF OTTAWA STANDARD DRAWING 'W26'.
6. IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER'S CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE TOWN THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
7. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY OF OTTAWA STANDARD DWG 'W23'.
8. THERMAL INSULATION OF WATERMAINS UNDER ROAD SIDE DITCHES AS PER CITY OF OTTAWA STANDARD DRAWING 'W21'.
9. SWABING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS #SP-4491 & SP-4494.
10. HYDRANT SPECIFICATION WITHIN THE MUNICIPAL ROAD ALLOWANCE TO BE CANADA VALVE - CENTURY HYDRANT OR CLOW BRIGADIER HYDRANT COMPLETE TO BE YELLOW WITH A THREADED CONNECTION. STORZ CONNECTIONS WILL NOT BE PERMITTED.
11. ALL WATERMAIN VALVES ARE TO BE RIGHT-HANDED OPERATING VALVES.

SEWER NOTES

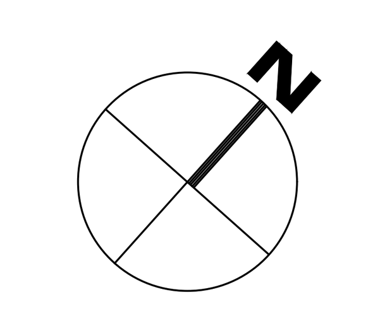
1. CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
3. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
4. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
5. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
6. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
7. SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SDR 28 OR APPROVED EQUIVALENT. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SDR 35 OR APPROVED EQUIVALENT.
8. INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 1.5m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
9. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"x8' LONG MARKER.
10. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ONSITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
11. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.
12. ALL CATCHBASIN AND CATHCBASIN MANHOLE LEADS ARE TO BE MINIMUM 200mmØ WITH MINIMUM 1.0% SLOPE UNLESS OTHERWISE NOTED.
13. ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS ARE TO HAVE 150 mmØ PERFORATED PIPE FOR 3.0m ON ALL AVAILABLE SIDES AS PER CITY OF OTTAWA STANDARD DRAWING 'R1'.
14. BACKWATER VALVES ARE TO BE INSTALLED ON SERVICES AS PER CITY STANDARD DWG S14 AND ONE OF S14.1 OR S14.2
15. EXISTING SERVICES TO BE LOCATED BY CONTRACTOR. EXISTING WATERMAIN TO BE BLANKED AT MAIN. EXISTING STORM AND SANITARY TO BE CAPPED AT PROPERTY LINE.
16. PIPES CONNECTED TO THE STORM SYSTEM SHOULD BE PRESSURIZED IN ORDER TO ENSURE FAILURE OF THE CISTERN PUMPS OR SURCHARGE IN THE PUBLIC STORM SYSTEM WILL NOT RESULT IN FAILURE OF THE STORM PIPES AND THUS FLOODING IN THE UNDERGROUND GARAGE.

No.	Revisions	Date
3	REVISED AS PER COMMENTS	MAR. 15, 2024
2	REVISED AS PER COMMENTS	SEPT. 1, 2023
1	ISSUED FOR REVIEW	JULY 15, 2022

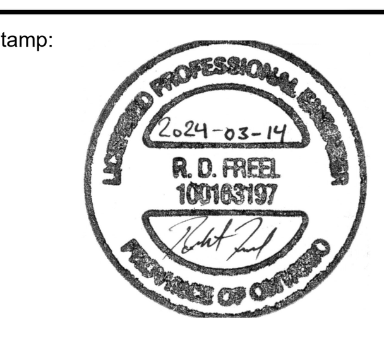
Check and verify all dimensions before proceeding with the work — Do not scale drawings

SCALE 1 : 500 (0 10 20 30 40 50 Metres)

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A 1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com



Stamp:



Client: 11309455 CANADA INC
190 LISGAR ST,
OTTAWA, ON K2P 0C4

Project: 355 FRANKTOWN ROAD
CARLETON PLACE, ONTARIO

Drawing Title: SITE SERVICING PLAN

Scale:	1:500	Project Number:	CCO-22-0402
Drawn By:	C.H.		
Checked By:	B.C.	Drawing Number:	C102
Designed By:	C.H.		

FILENAME: U:\Ottawa\01 Project - Proposals\2022 Jobs\CCO\CCO-22-0402 Heafey_Sub'd_355 Franktown Road, Carleton Place\12 - Drawings\CCO-22-0402 Presentation.dwg
LAST SAVED: Friday, March 15, 2024 LAST SAVED BY: F.Valenti
LAST PLOTTED: Friday, March 15, 2024 CTB FILE USED: ----