

LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR (1.0m)
- - - EXISTING GRADE
- STAKED WOODLOT BY COLVILLE CONSULTING INC. (SEPT 20, 2022)
- CONCEPTUAL 360 m² BUILDING ENVELOPE
- ▒ PROPOSED TYPE A DISPERSAL BED 368 m²
- ⊙ CONCEPTUAL PROPOSED DRILLED WELL LOCATION C/W 15.0m OBC SETBACK
- PROPOSED STORM MANHOLE
- ⊕ PROPOSED MANHOLE CATCHBASIN
- / □ PROPOSED CATCHBASIN / DOUBLE CATCHBASIN

NOTES:

- PROPOSED DRIVEWAY LOCATIONS AND APRONS TO BE CONFIRMED DURING DESIGN PROCESS.

3	ISSUED FOR FOURTH SUBMISSION (ZBA/OPA)	2024/NOV/15
2	ISSUED FOR THIRD SUBMISSION (ZBA/DPA)	2024/AUG/29
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No.	ISSUE / REVISION	YYYY/MMM/DD

ELEVATION NOTE:
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SURVEY NOTES:
SURVEY COMPLETED BY J.D. BARNES LTD. (2023/JAN/31)
DRAWING FILE NO.: 22-14-718-00-TOPO
BEARINGS ARE UTM GRID, DERIVED FROM RTN OBSERVATIONS
UTM ZONE 17, NAD83 (GSPS) (2010.0)
DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99996781

SITE PLAN NOTES:
DESIGN ELEMENTS ARE BASED ON SITE PLAN BY WESTON CONSULTING INC.
DRAWING No. 10779 CONCEPTS/C2_2022-03-16
DATE RECEIVED 2023/FEB/06

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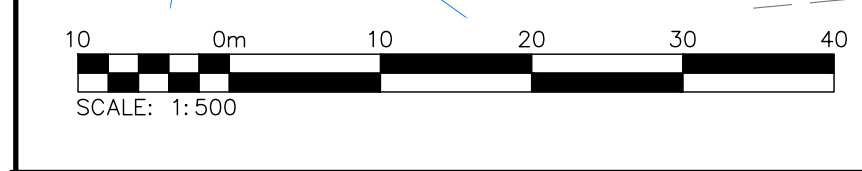
Project
11 MAIN STREET TOWN OF PUSLINCH

Drawing
PRELIMINARY SITE SERVICING PLAN (EAST)

	Engineer	Engineer	Project No.	2366-6537	
	Drawn	M.I.M	Design	M.I.M	
Check	B.W	Check	B.W	Scale	11:500
				Dwg.	FIG. 1

2800 HIGH POINT DRIVE SUITE 100 MILTON, ON. L9T 6P4 905-875-0026 T 905-875-4915 F INFO@CROZIERCA

SEE DWG. FIG. 2

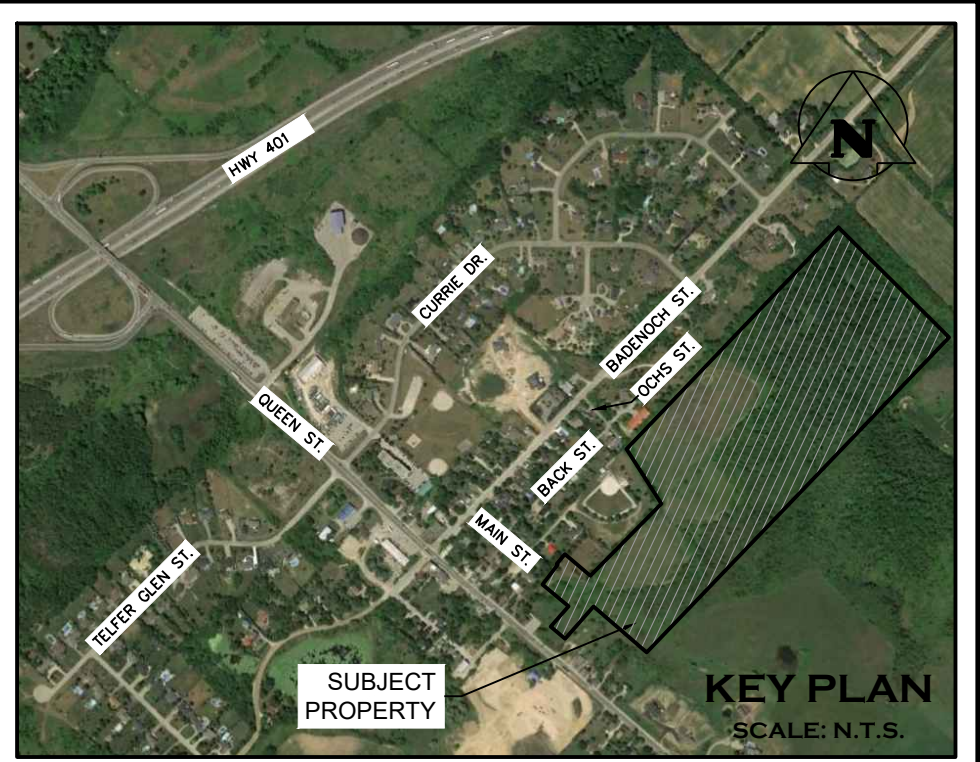
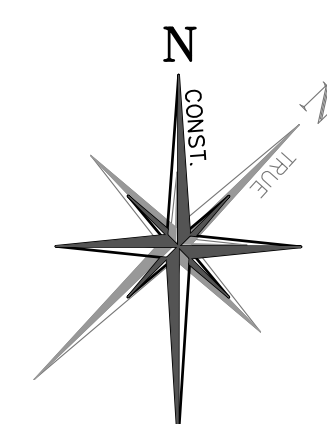
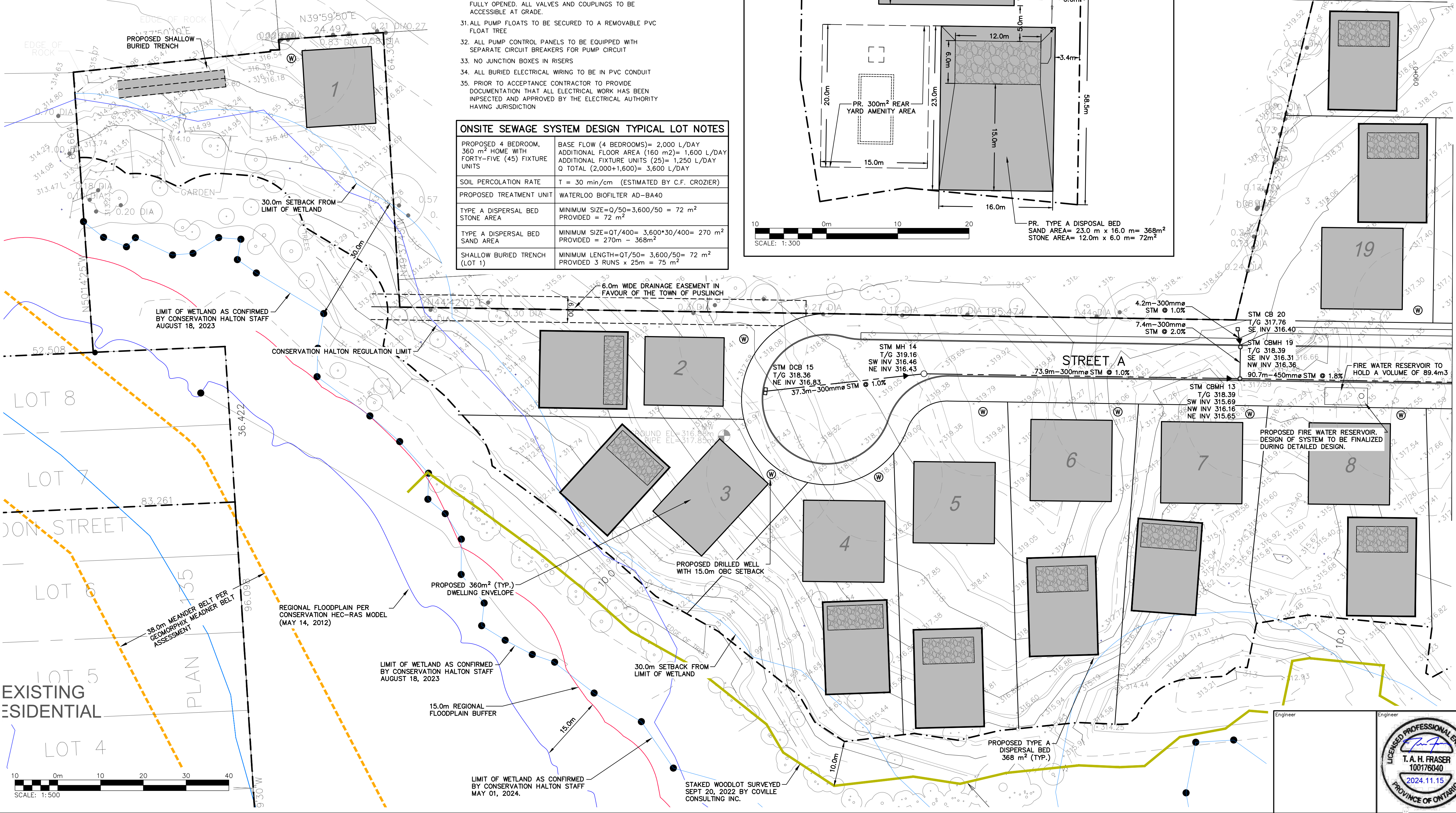
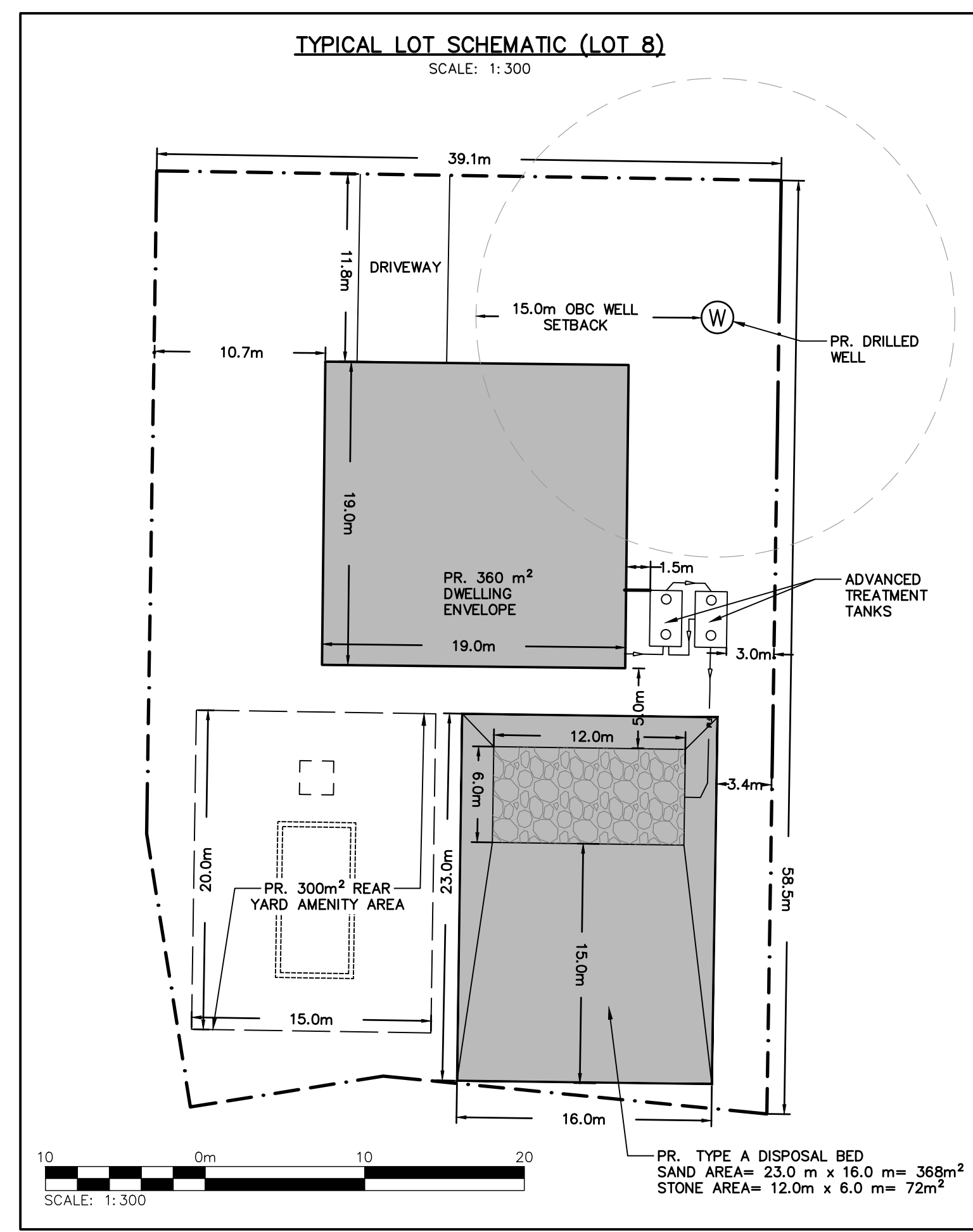


SEWAGE SYSTEM NOTES

- PROPOSED SEWAGE SYSTEM CONSTRUCTION TO BE UNDERTAKEN IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, ONTARIO MINISTRY OF ENVIRONMENT, AND THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALLATION OF ALL COMPONENTS OF THE SEWAGE SYSTEM TO BE COMPLETED BY A LICENSED AND REGISTERED ON-SITE SEWAGE SYSTEM INSTALLER IN THE PROVINCE OF ONTARIO.
- THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL NECESSARY INSPECTIONS WITH THE TOWN AND OTHER AUTHORITIES PERTAINING TO THE INSTALLATION OF THEIR WORK.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES AND EXISTING SEWAGE WORKS PRIOR TO CONSTRUCTION.
- ALL COMPONENT LOCATIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
- ALL EARTHWORKS, INCLUDING PLACEMENT OF FILL ARE TO BE UNDERTAKEN WITH TRACK MOUNTED EQUIPMENT TO KEEP COMPACTION TO A MINIMUM. KEEP ALL TRAFFIC IN THE AREA OF THE PROPOSED LEACHING BED TO A MINIMUM.
- ALL TOPSOIL AND ORGANICS TO BE REMOVED FROM LEACHING BED AREA.
- IF HIGH GROUNDWATER CONDITIONS ARE EVIDENT AT THE TIME OF CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL VERTICAL CLEARANCE DISTANCES AS REQUIRED BY THE ONTARIO BUILDING CODE MUST BE MAINTAINED.
- GRAVITY SEWERS TO HAVE MINIMUM 0.6 M COVER AND SHALL BE INSULATED WHERE LESS THAN 1.0M COVER IS PROVIDED. FORCEMAIN SHALL BE INSULATED WHERE LESS THAN 1.5 M COVER IS PROVIDED. BEDDING, COVER AND BACKFILL TO BE IN ACCORDANCE WITH OPSS.
- UNLESS OTHERWISE NOTED PE FORCEMAIN TO BE HDPE SERIES 100 OR DR 13.5 PE AND PVC FORCEMAIN TO BE SCHEDULE 40. GRAVITY SEWERS TO BE SDR-35. FORCE MAIN TO BE PROVIDED WITH TRACER WIRE, SECURED TO THE TOP OF THE PIPE WITH WATER PROOF TAPE OR ZIP TIES.
- ALL PIPES SUBJECT TO VEHICULAR TRAFFIC SHALL BE ADEQUATELY PROTECTED.
- ALL METAL IN TANKS OR PUMP CHAMBERS TO BE GALVANIZED OR STAINLESS STEEL.
- ALL JOINTS BELOW THE HIGH WATER LEVEL IN PRECAST TANKS TO BE SEALED WITH MASTIC SEALANT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR WATERTIGHT SEAL. ALL TANK INLETS AND OUTLETS TO BE EQUIPPED WITH CAST IN RUBBER BOOT FOR WATER TIGHT SEAL. UNLESS OTHERWISE NOTED ALL TANK INLETS AND OUTLETS TO BE EQUIPPED WITH TEES.
- ALL TANKS TO BE PROVIDED WITH PRECAST CONCRETE OR PVC ACCESS RISERS TO GRADE. HATCHES TO BE BOLTED AND GASKETED AND ACCESSIBLE AT GRADE. ALL CIRCULAR HATCHES TO BE 600 MM DIAMETER POLYLOK RISER WITH CAST IN ADAPTOR. ALL SQUARE ACCESS OPENINGS TO BE EQUIPPED WITH CONCRETE RISERS. VENTED HATCHES TO BE PROVIDED ON TANKS CONTAINING PUMPS.
- EXISTING SOILS SHALL BE SCARIFIED AT A RIGHT ANGLE TO THE DIRECTION OF LATERAL SEWAGE FLOW IN THE LEACHING BED PRIOR TO IMPORTING FILL OR INSTALLING DISTRIBUTION PIPE STONE LAYER.
- WHEN THE IMPORTATION OF FILL IS REQUIRED, FILL SHOULD BE END-DUMPED AND GRADED PROGRESSIVELY OVER THE PREPARED SITE AREA WITH TRACK MOUNTED EQUIPMENT.
- ALL ELEVATIONS TO BE VERIFIED PRIOR TO BACKFILL.
- ALL FILL MATERIAL PLACED BENEATH TANKS TO BE COMPACTED TO 95%.

- ALL DISTURBED AREAS TO BE TOPSOILED (100MM MINIMUM) AND SEEDED COMPLETE WITH FERTILIZER AND MULCH IN ACCORDANCE WITH OPSS.
- THE INSTALLING CONTRACTOR SHALL INSTALL THE SEWAGE SYSTEM USING A TRANSIT/LEVEL AND SHALL PROVIDE SAME FOR INSPECTION OF ANY COMPONENT.
- MAXIMUM BURIAL DEPTH OF TANKS NOT TO EXCEED TO MANUFACTURERS RECOMMENDATIONS.
- CLEARANCE DISTANCES FROM PROPERTY LINES, STRUCTURES, WELLS, AND SURFACE WATER WILL ADHERE TO THE REQUIREMENTS OF OBC 8.2.1.6.A.
- A LEACHING BED SHALL NOT BE LOCATED ON AN AREA WITH A SLOPE OF GREATER THAN 4 UNITS HORIZONTALLY TO 1 UNIT VERTICALLY.
- THE HEADER LINE, DISTRIBUTION PIPES AND LEACHING BED SHALL BE EQUIPPED WITH MEANS OF DETECTION AS REQUIRED BY OBC 8.7.2.2. (2) LIGHT COLOURED PLASTIC COATED 14 GAUGE TRACER WIRE OR EPOXY COATED, 10m REBAR LAID HORIZONTALLY AT EACH CORNER OF THE BED IS ACCEPTABLE.
- STONE TRENCH OR LAYER TO BE COVERED WITH PERMEABLE GEOTEXTILE PRIOR TO BACKFILL.
- STONE TO CONFORM WITH OBC 8.7.3.3.
- ALL IMPORTED SAND FILL TO HAVE A T-TIME OF 6 TO 10 MIN/CM AND A SILT/CLAY CONTENT OF NO MORE THAN 5% AND SHALL BE VERIFIED IN WRITING BY A SOIL TESTING FIRM AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
- ANAEROBIC DIGESTER AND BIOFILTER BASKET PUMPS AS DESIGNED AND SUPPLIED BY WATERLOO BIOFILTER.
- PUMP CHAMBER TO BE VENTED AND EQUIPPED WITH AUDIBLE AND VISUAL HIGH LEVEL ALARM.
- ALL VALVES TO PROVIDE NO OBSTRUCTION TO FLOW WHEN FULLY OPENED. ALL VALVES AND COUPLINGS TO BE ACCESSIBLE AT GRADE.
- ALL PUMP FLOATS TO BE SECURED TO A REMOVABLE PVC FLOAT TREE.
- ALL PUMP CONTROL PANELS TO BE EQUIPPED WITH SEPARATE CIRCUIT BREAKERS FOR PUMP CIRCUIT.
- NO JUNCTION BOXES IN RISERS.
- ALL BURIED ELECTRICAL WIRING TO BE IN PVC CONDUIT.
- PRIOR TO ACCEPTANCE CONTRACTOR TO PROVIDE DOCUMENTATION THAT ALL ELECTRICAL WORK HAS BEEN INSPECTED AND APPROVED BY THE ELECTRICAL AUTHORITY HAVING JURISDICTION.

ONSITE SEWAGE SYSTEM DESIGN TYPICAL LOT NOTES	
PROPOSED 4 BEDROOM, 360 m ² HOME WITH FORTY-FIVE (45) FIXTURE UNITS	BASE FLOW (4 BEDROOMS)= 2,000 L/DAY ADDITIONAL FLOOR AREA (160 m ²)= 1,600 L/DAY ADDITIONAL FIXTURE UNITS (25)= 1,250 L/DAY Q TOTAL (2,000+1,600)= 3,600 L/DAY
SOIL PERCOLATION RATE	T = 30 min/cm (ESTIMATED BY C.F. CROZIER)
PROPOSED TREATMENT UNIT	WATERLOO BIOFILTER AD-BA40
TYPE A DISPERSAL BED STONE AREA	MINIMUM SIZE=Q/50=3,600/50 = 72 m ² PROVIDED = 72 m ²
TYPE A DISPERSAL BED SAND AREA	MINIMUM SIZE=QT/400= 3,600*30/400= 270 m ² PROVIDED = 270m - 368m ²
SHALLOW BURIED TRENCH (LOT 1)	MINIMUM LENGTH=QT/50= 3,600/50= 72 m ² PROVIDED 3 RUNS x 25m = 75 m ²



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- REGIONAL FLOODPLAIN 15.0m BUFFER
- CONSERVATION HALTON REGULATION LIMIT
- STAKED WOODLOT BY COLVILLE CONSULTING INC. (SEPT 20, 2022)
- LIMIT OF WETLAND AS CONFIRMED BY CONSERVATION HALTON STAFF (AUGUST 18, 2023)
- 30.0m SETBACK FROM LIMIT OF WETLAND AS CONFIRMED BY CONSERVATION HALTON STAFF AUGUST 18, 2023
- MEANDER BELT 38m BUFFER (19m EACH SIDE)
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Project
**11 MAIN STREET
TOWN OF PUSLINCH**

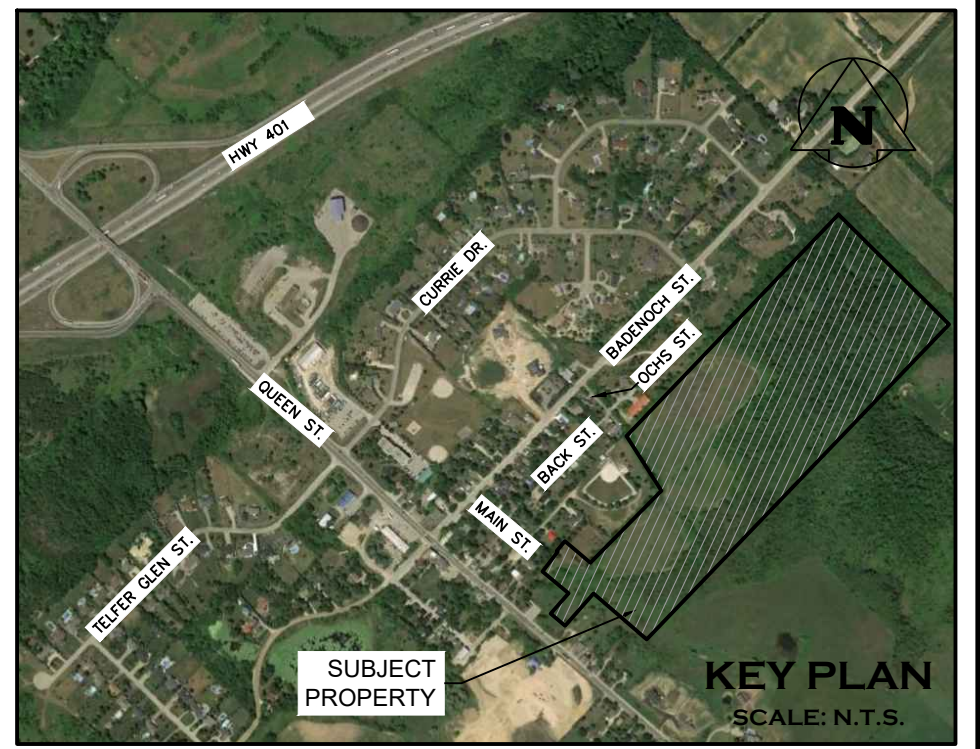
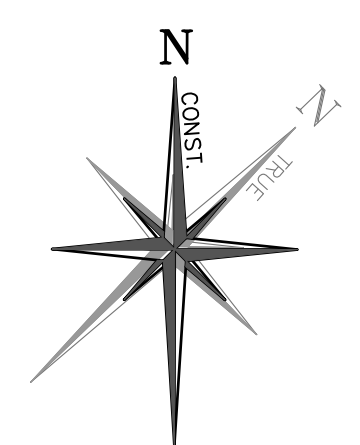
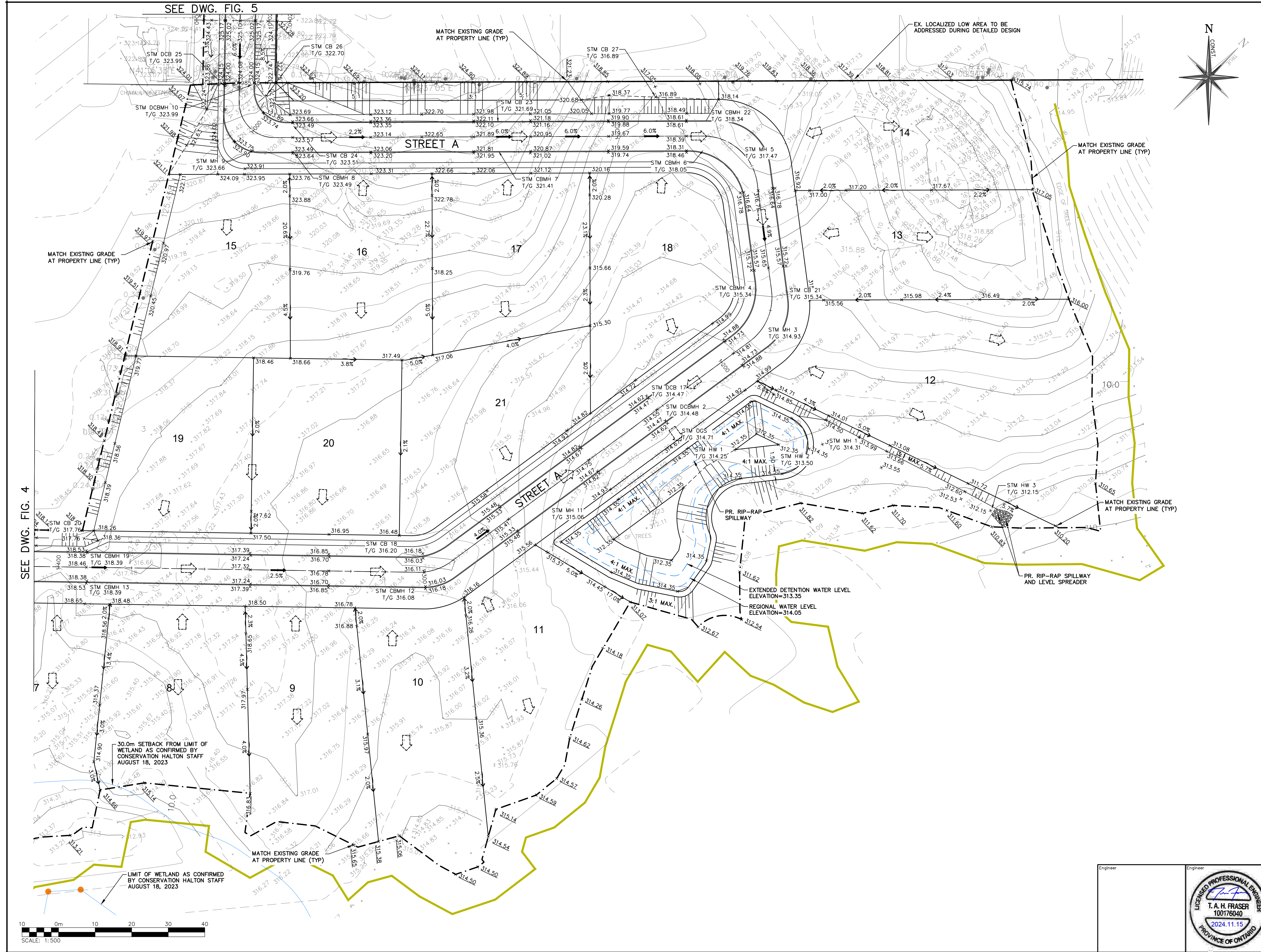
Drawing
**PRELIMINARY SITE SERVICING PLAN
(WEST)**

2800 HIGH POINT DRIVE SUITE 100 MILTON, ON. L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CROZIER.CA INFO@CROZIER.CA

CROZIER CONSULTING ENGINEERS

Drawn M.I.M. Design M.I.M. Project No. **2366-6537**
Check B.W. Check B.W. Scale 1:500 Dwg. **FIG. 2**

Licensed Professional Engineer
T.A.H. FRASER
100176040
2024.11.15
PROVINCE OF ONTARIO



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (0.50m)
- EXISTING CONTOUR (1.0m)
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED GRADE (TO MATCH EXISTING)
- PROPOSED MINOR FLOW DIRECTION
- PROPOSED MAJOR OVERLAND FLOW DIRECTION
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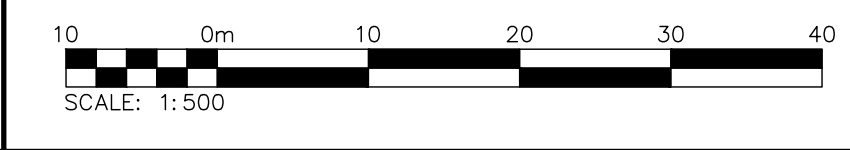
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Project
**11 MAIN STREET
TOWN OF PUSLINCH**

Drawing
SITE GRADING PLAN (EAST)

SEE DWG. FIG. 4

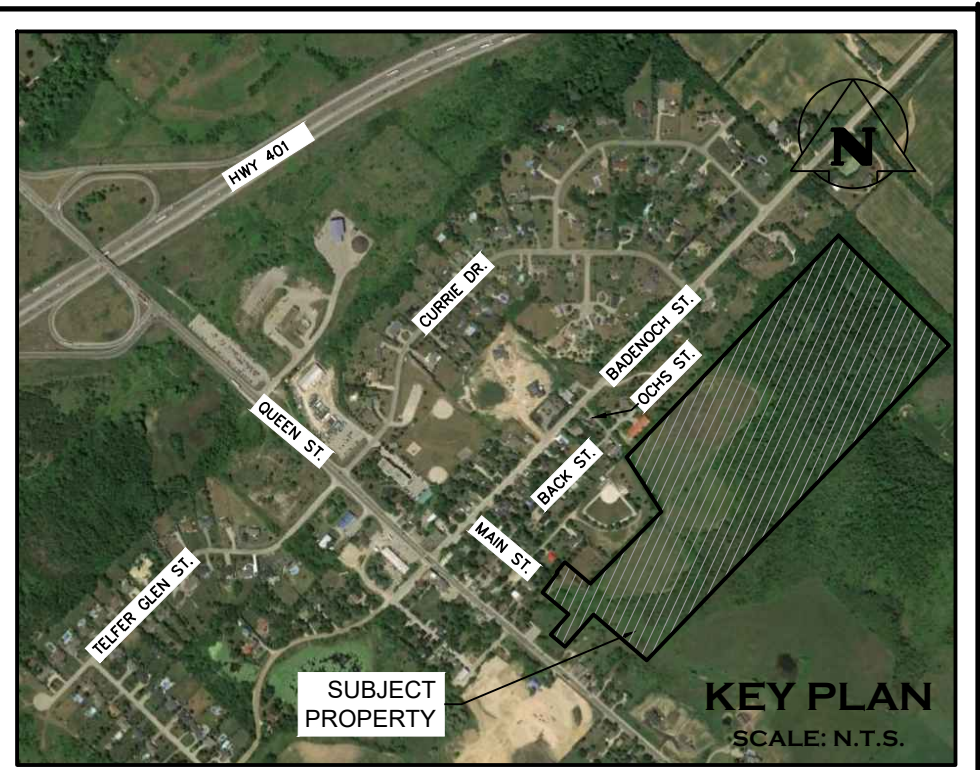
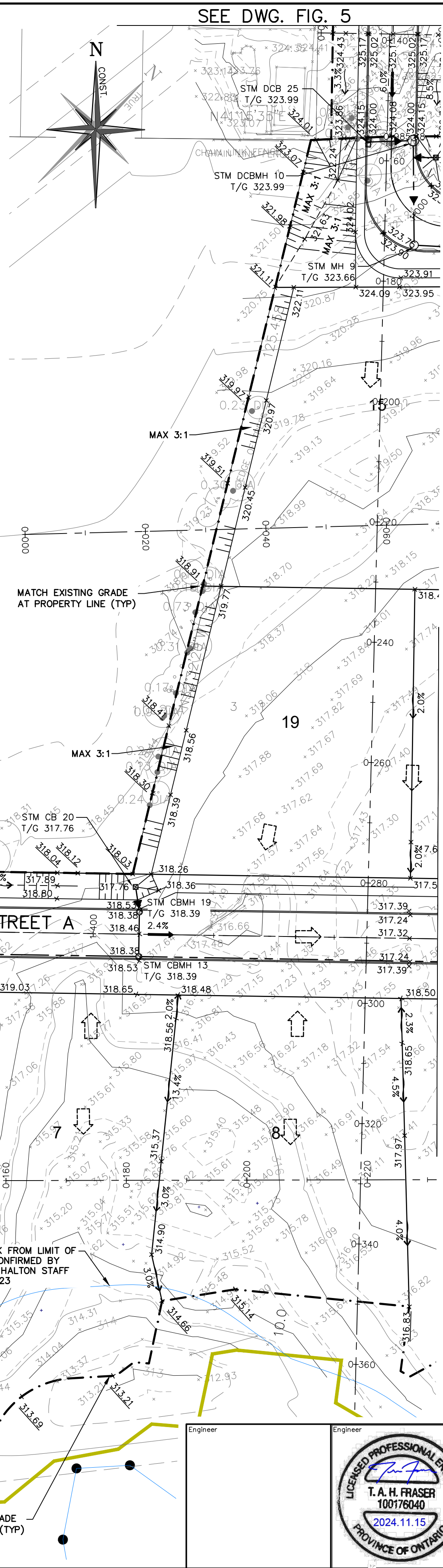
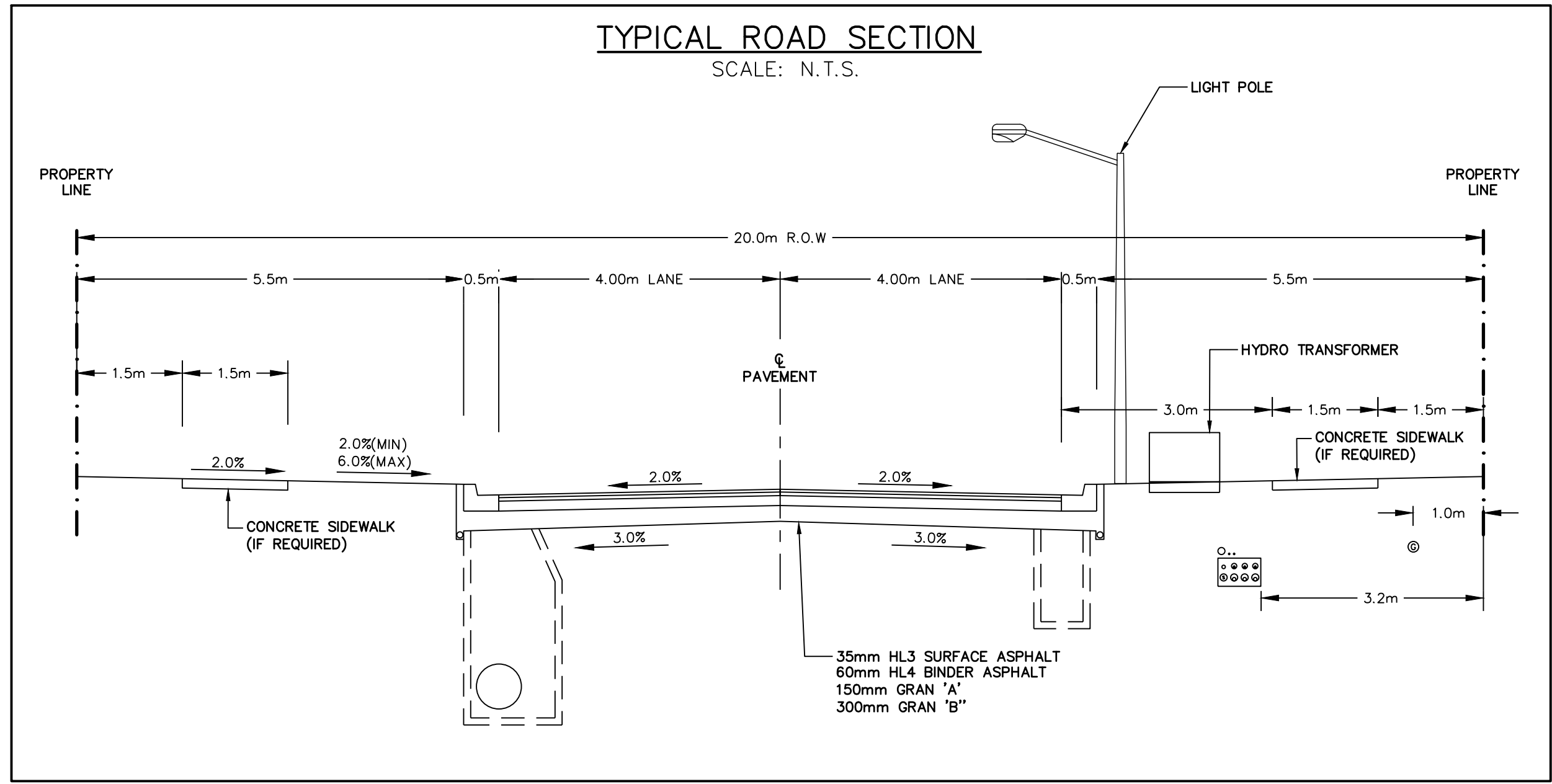
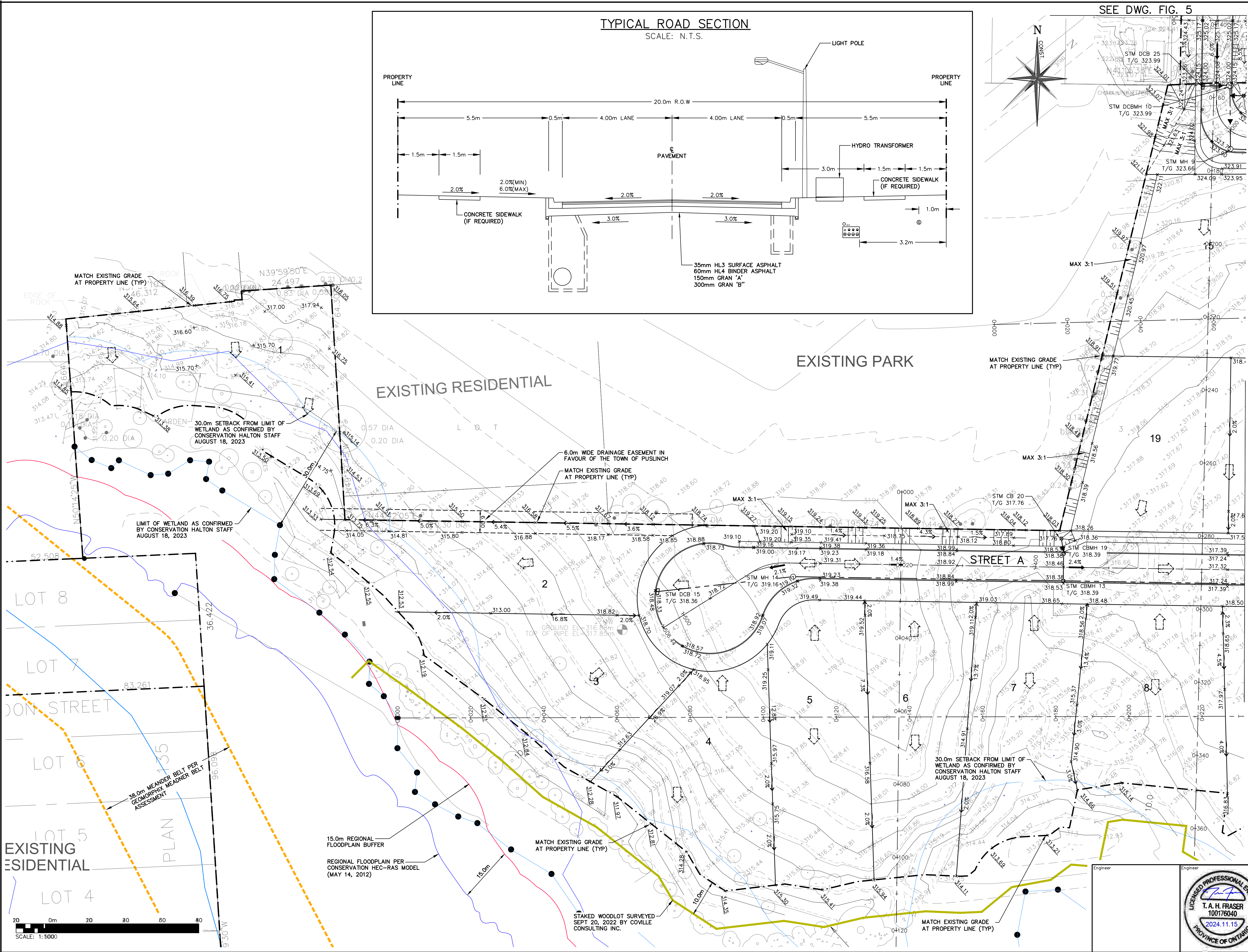
SEE DWG. FIG. 5



Engineer		Engineer	
Drawn	M.I.M.	Design	M.I.M.
Check	B.W.	Check	B.W.
Project No. 2366-6537		Scale 1:500	
Dwg. FIG. 3			

CROZIER
CONSULTING ENGINEERS

2800 HIGH POINT DRIVE
SUITE 100
MILTON, ON. L9T 6P4
905-875-0026 T
905-875-4915 F
WWW.CROZIER.CA



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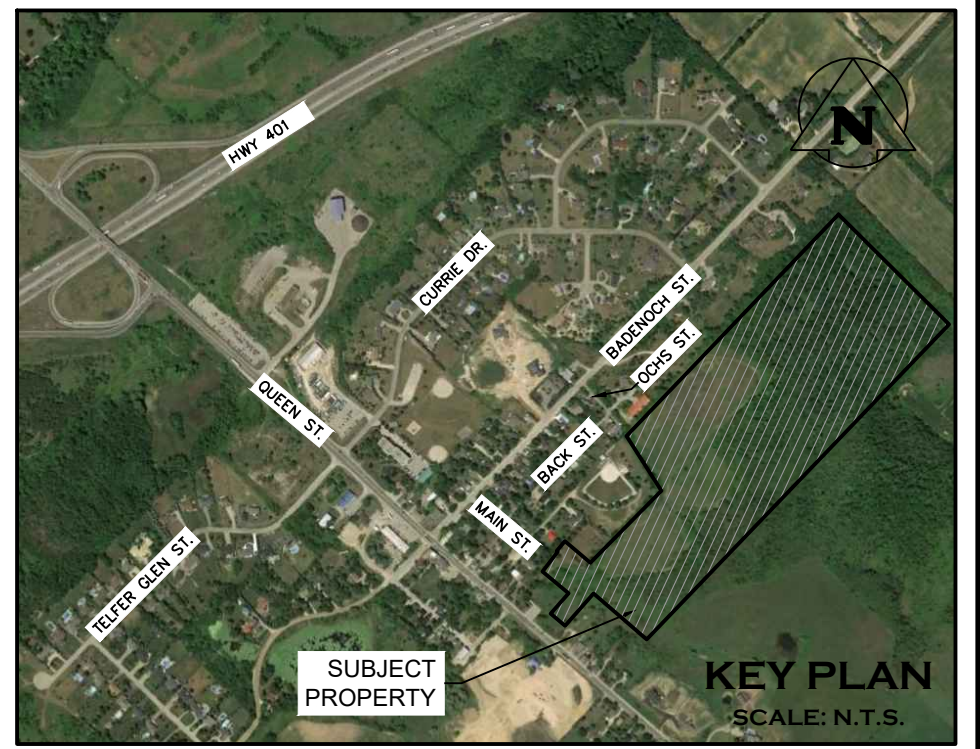
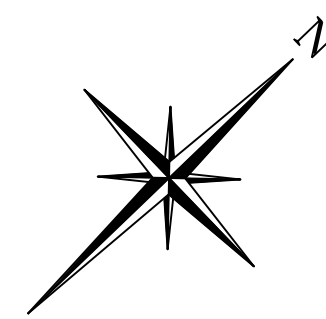
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Project: **11 MAIN STREET TOWN OF PUSLINCH**

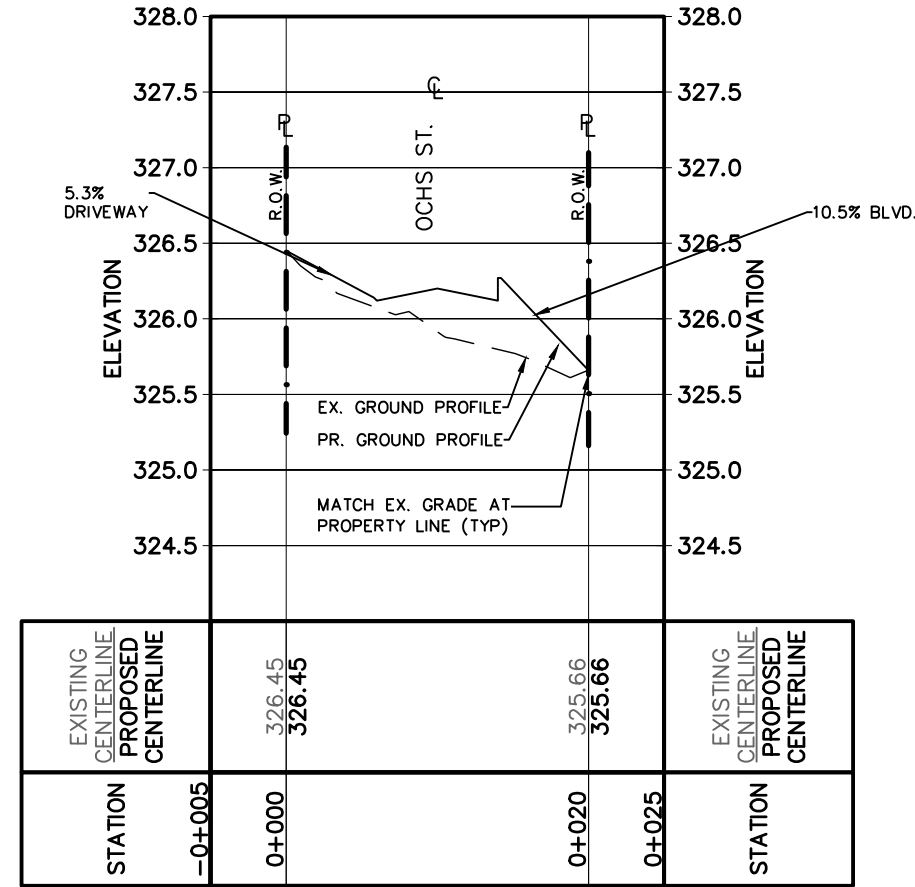
Drawing: **SITE GRADING PLAN (WEST)**

CROZIER CONSULTING ENGINEERS
2800 HIGH POINT DRIVE SUITE 100 MILTON, ON. L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CROZIERCA INFO@CROZIERCA

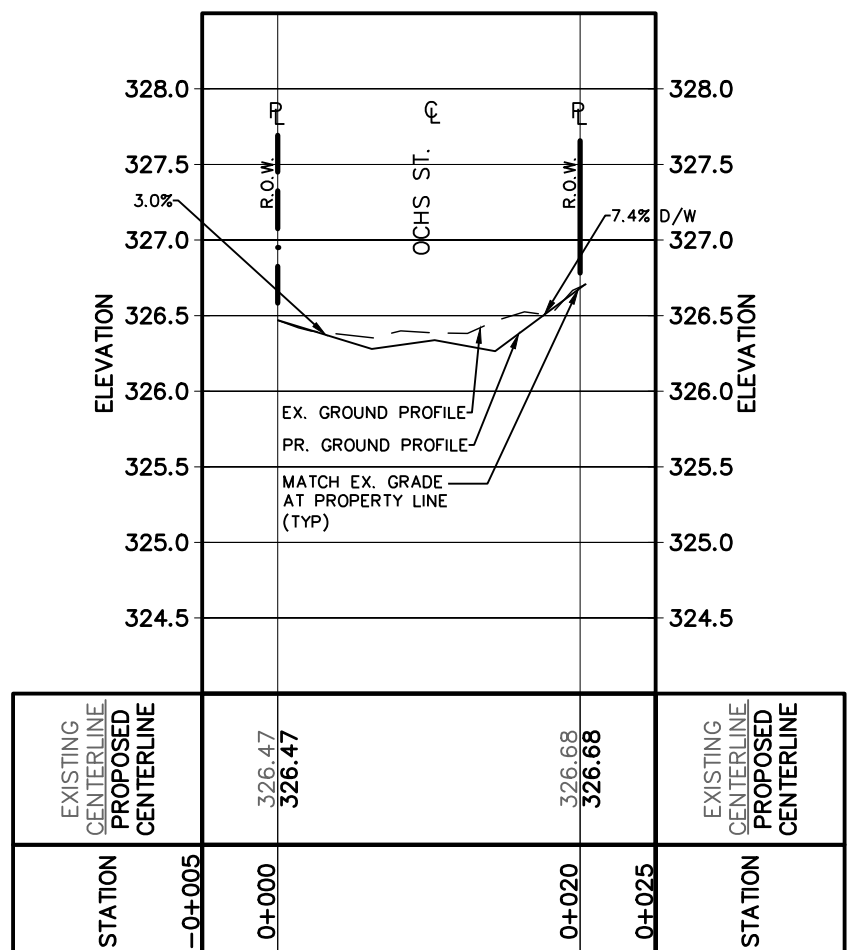
Drawn: M.I.M. Design: M.I.M. Project No: **2366-6537**
Check: B.W. Scale: 1:500 Dwg: **FIG. 4**



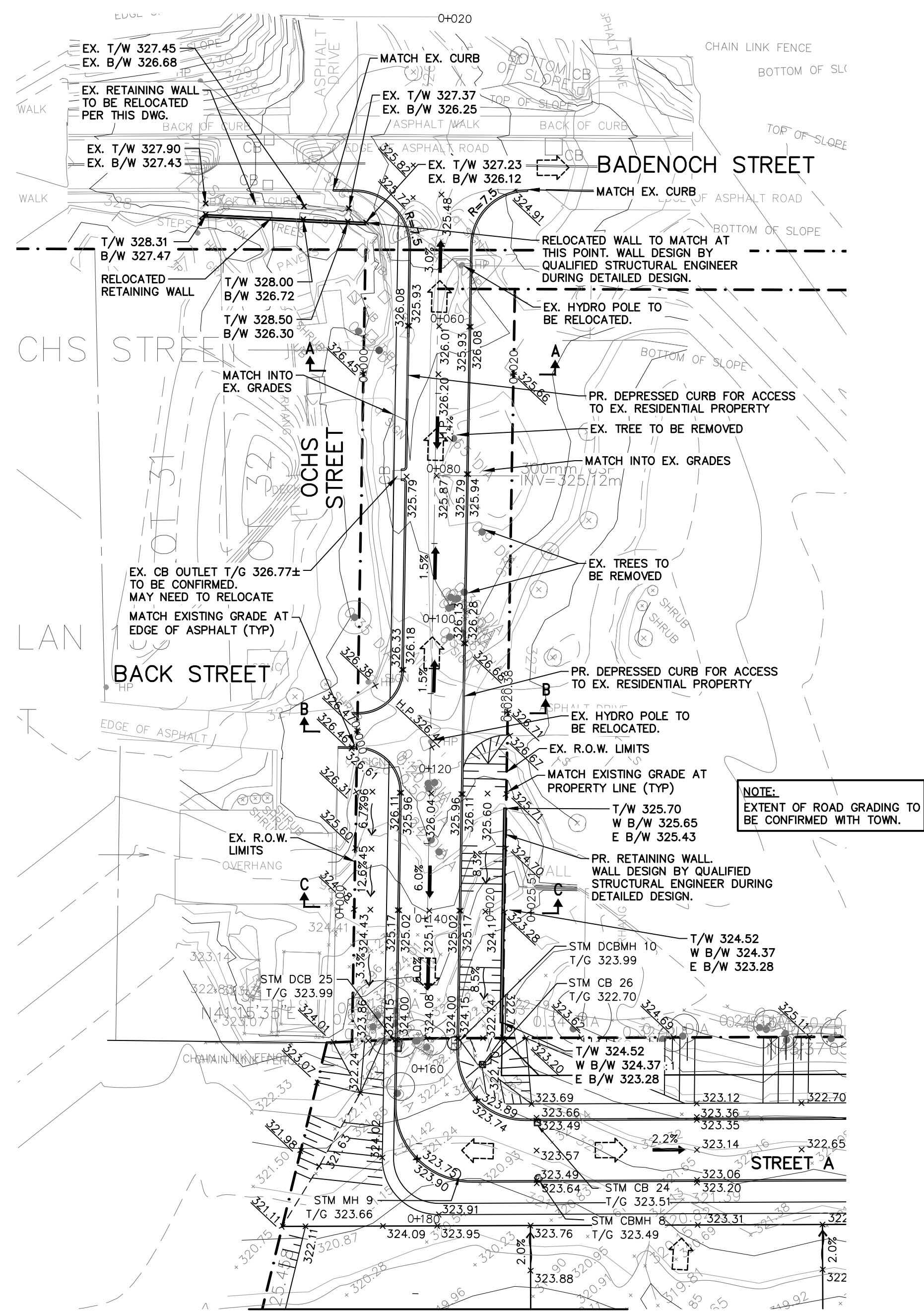
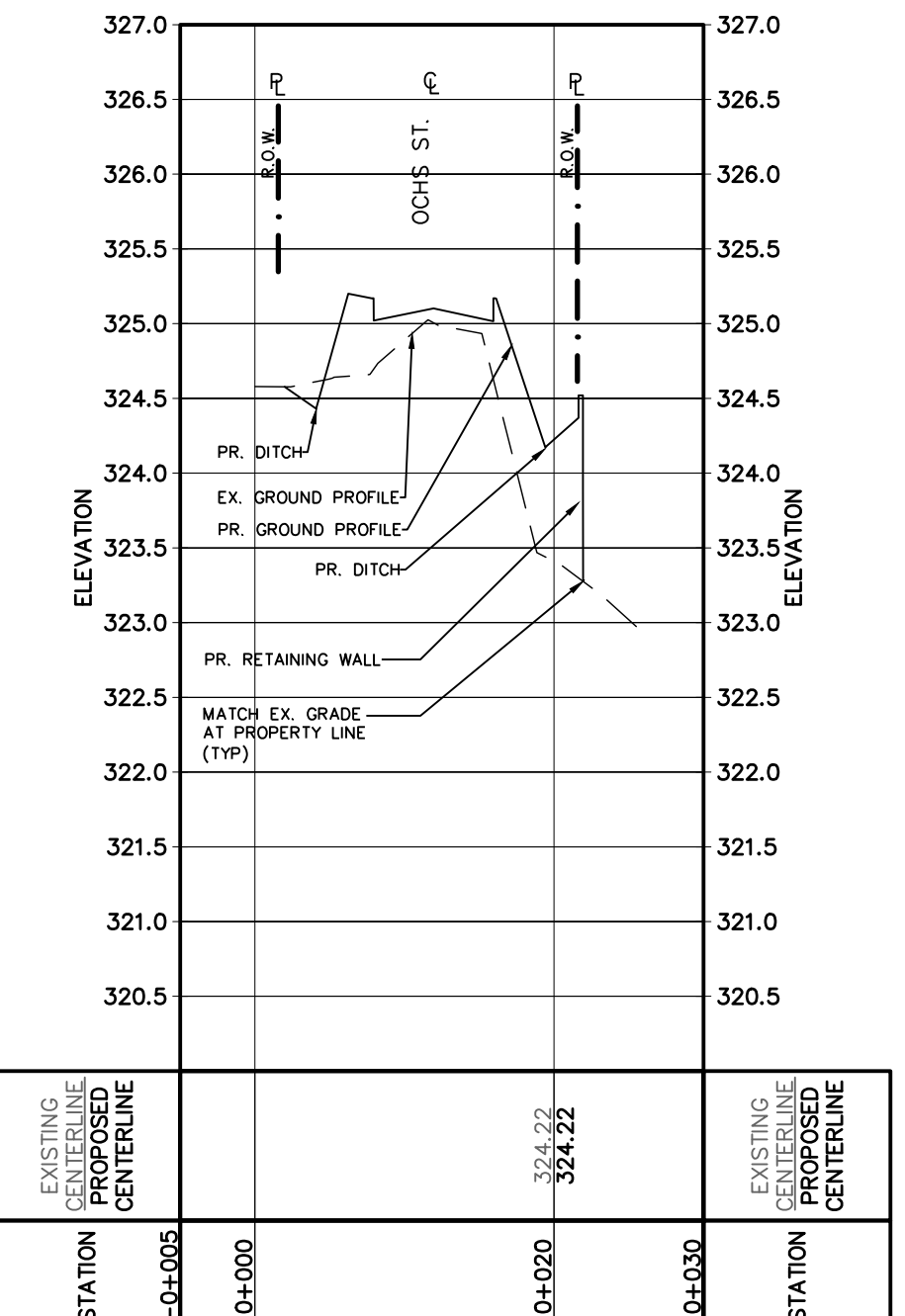
SECTION A



SECTION B



SECTION C



LEGEND

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- x215.00 PROPOSED GRADE
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- PROPOSED SLOPE (3:1 MAX.)
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NOTE:
 EXTERNAL OF OCHS STREET IS FOR SCHEMATIC PURPOSES ONLY. DETAILED DESIGN OF OCHS STREET TO BE COMPLETED THROUGH CONSULTATION WITH THE TOWNSHIP DURING SUBSEQUENT PLANNING APPLICATION.
 EXTERNAL DRAINAGE FROM PRIVATE LOTS TO BE CONVEYED AS PART OF THESE ROAD IMPROVEMENTS.

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SURVEY NOTES:
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 DRAWING FILE No.: 22-14-718-00-TOPO
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 UTM ZONE 17, NAD83 (GSPS) (2010.0)
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.9996781

SITE PLAN NOTES:
 DESIGN ELEMENTS ARE BASED ON SITE PLAN BY WESTON CONSULTING INC.
 DRAWING No. 10779 CONCEPTS/C2_2022-03-16
 DATE RECEIVED 2023/FEB/06

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Project
**11 MAIN STREET
 TOWN OF PUSLINCH**

Drawing
**EXTERNAL GRADING PLAN
 (OCHS STREET)**

Engineer

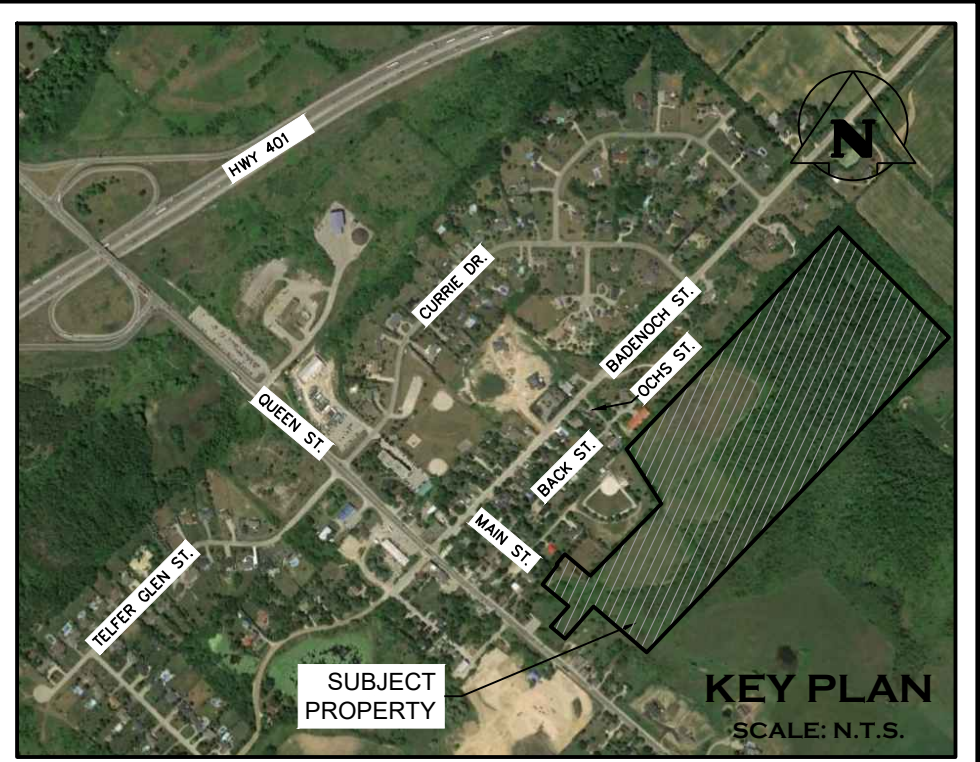
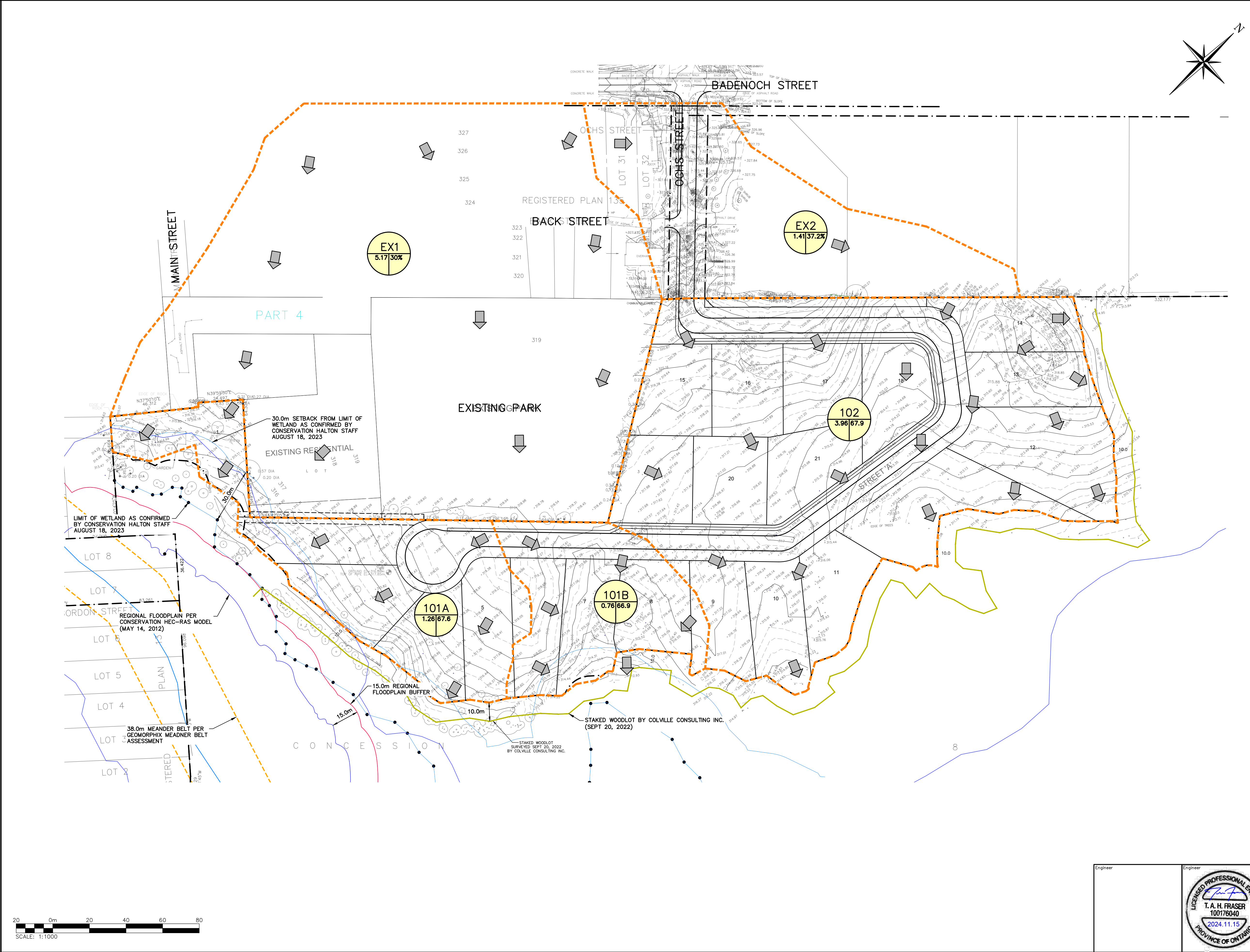
2800 HIGH POINT DRIVE
 SUITE 100
 MILTON, ON. L9T 6P4
 905-875-0026 T
 905-875-4915 F
 INFO@CFROZIER.CA

CROZIER CONSULTING ENGINEERS

Drawn	M.I.M.	Design	M.I.M.	Project No.	2366-6537
Check	B.W.	Check	B.W.	Scale	1:500

Dwg. **FIG. 5**





LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- EXISTING DITCH
- EXISTING OVERLAND FLOW DIRECTION
- PRE-DEVELOPMENT STORM DRAINAGE CATCHMENT
- REGIONAL FLOODPLAIN (CONSERVATION HALTON)
- REGIONAL FLOODPLAIN 15.0m BUFFER
- CONSERVATION HALTON REGULATION LIMIT
- STAKED WOODLOT BY COLVILLE CONSULTING INC. (SEPT 20, 2022)
- LIMIT OF WETLAND AS CONFIRMED BY CONSERVATION HALTON STAFF (AUGUST 18, 2023)
- 30.0m SETBACK FROM LIMIT OF WETLAND AS CONFIRMED BY CONSERVATION HALTON STAFF (AUGUST 18, 2023)
- MEANDER BELT 38m BUFFER (19m EACH SIDE)

CATCHMENT I.D.

AREA (ha) | PERCENT IMPERVIOUS

CATCHMENT I.D.

AREA (ha) | RUNOFF CO-EFFICIENT

3	ISSUED FOR FOURTH SUBMISSION (ZBA/OPA)	2024/NOV/15
2	ISSUED FOR THIRD SUBMISSION (ZBA/DPA)	2024/AUG/29
1	ISSUED FOR SECOND SUBMISSION (ZBA)	2023/DEC/20
0	ISSUED ZBA AND DPS APPLICATIONS	2023/FEB/17
No.	ISSUE / REVISION	YYYY/MM/DD

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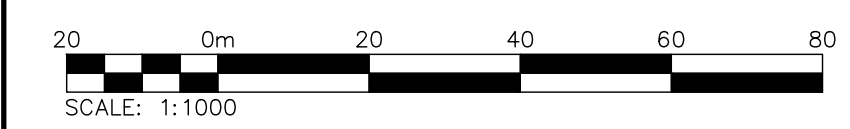
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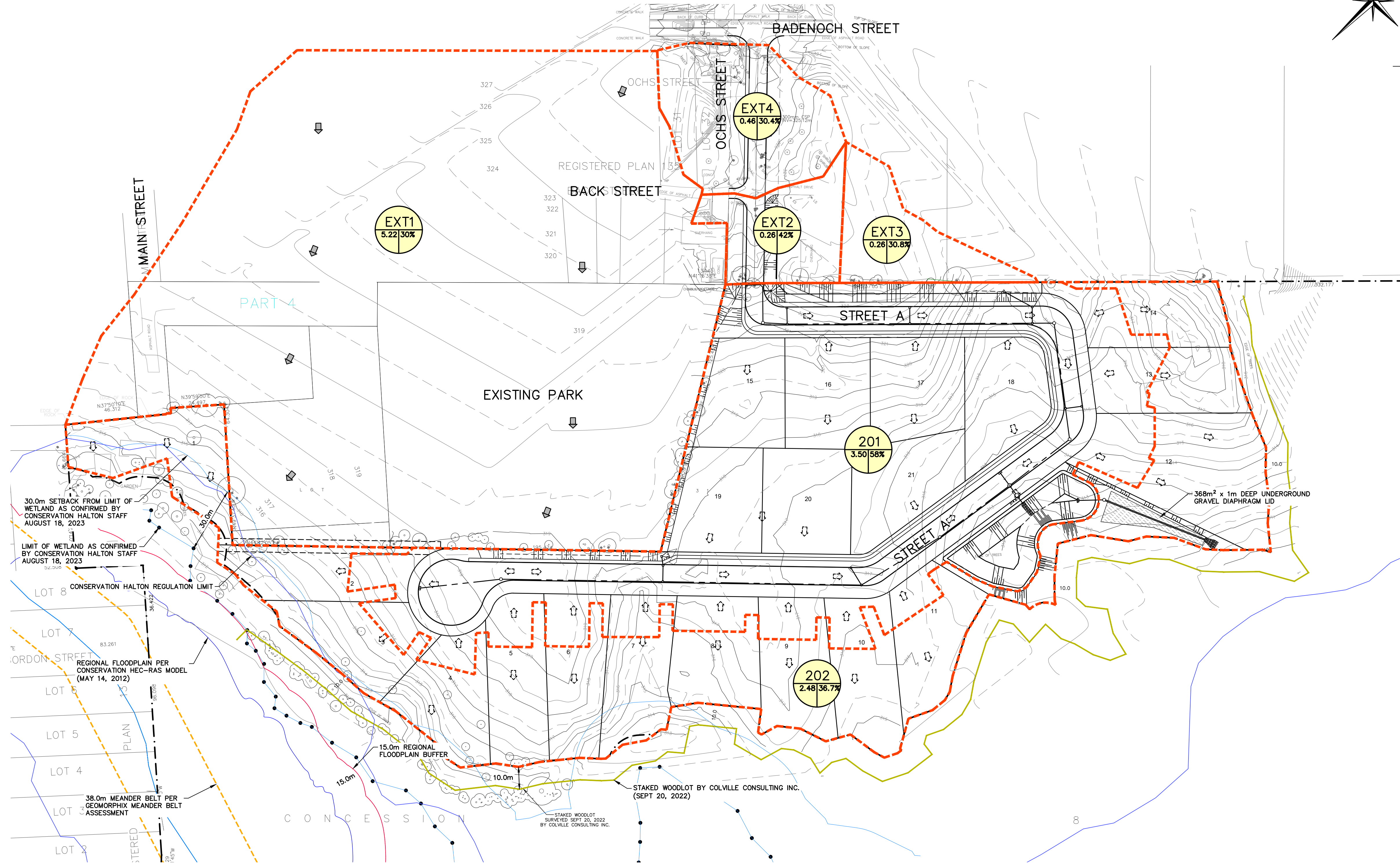
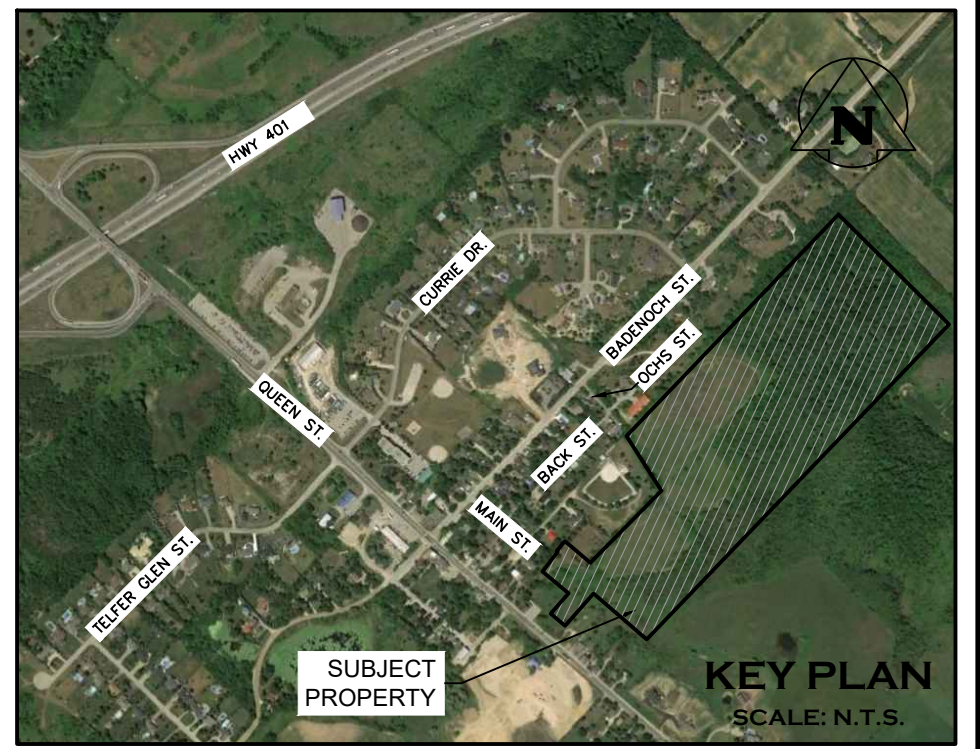
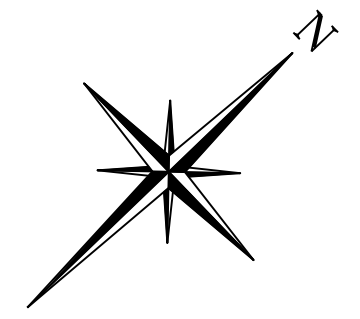
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Project
**11 MAIN STREET
TOWN OF PUSLINCH**

Drawing
**PRE-DEVELOPMENT
DRAINAGE PLAN**



Engineer	Engineer		<p>CROZIER CONSULTING ENGINEERS</p> <p>2800 HIGH POINT DRIVE SUITE 100 MILTON, ON. L9T 6P4 905-875-0026 T 905-875-4915 F INFO@CROZIER.CA</p>
Drawn M.I.M.	Design M.I.M.		
Check B.W.	Check B.W.	Scale 1:1000	Dwg. FIG. 6



LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR (0.5m)
- - - EXISTING CONTOUR (1.0m)
- - - EXISTING DITCH
- - - EXISTING GRADE
- EXISTING OVERLAND FLOW DIRECTION
- PROPOSED OVERLAND FLOW DIRECTION
- POST-DEVELOPMENT STORM DRAINAGE CATCHMENT
- REGIONAL FLOODPLAIN (CONSERVATION HALTON)
- REGIONAL FLOODPLAIN 15.0m BUFFER
- CONSERVATION HALTON REGULATION LIMIT
- STAKED WOODLOT BY COLVILLE CONSULTING INC. (SEPT 20, 2022)
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- 30.0m SETBACK FROM LIMIT OF WETLAND AS CONFIRMED BY CONSERVATION HALTON STAFF (AUGUST 18, 2023)
- MEANDER BELT 38m BUFFER (19m EACH SIDE)
- PROPOSED STORM SEWER & MANHOLE
- / □ PROPOSED SINGLE / DOUBLE CATCHBASIN
- PROPOSED SINGLE CATCHBASIN MANHOLE
- ID CATCHMENT I.D.
- AREA (ha) | PERCENT IMPERVIOUS

3	ISSUED FOR FOURTH SUBMISSION (ZBA/OPA)	2024/NOV/15
2	ISSUED FOR THIRD SUBMISSION (ZBA/DPA)	2024/AUG/29
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No.	ISSUE / REVISION	YYYY/MM/DD

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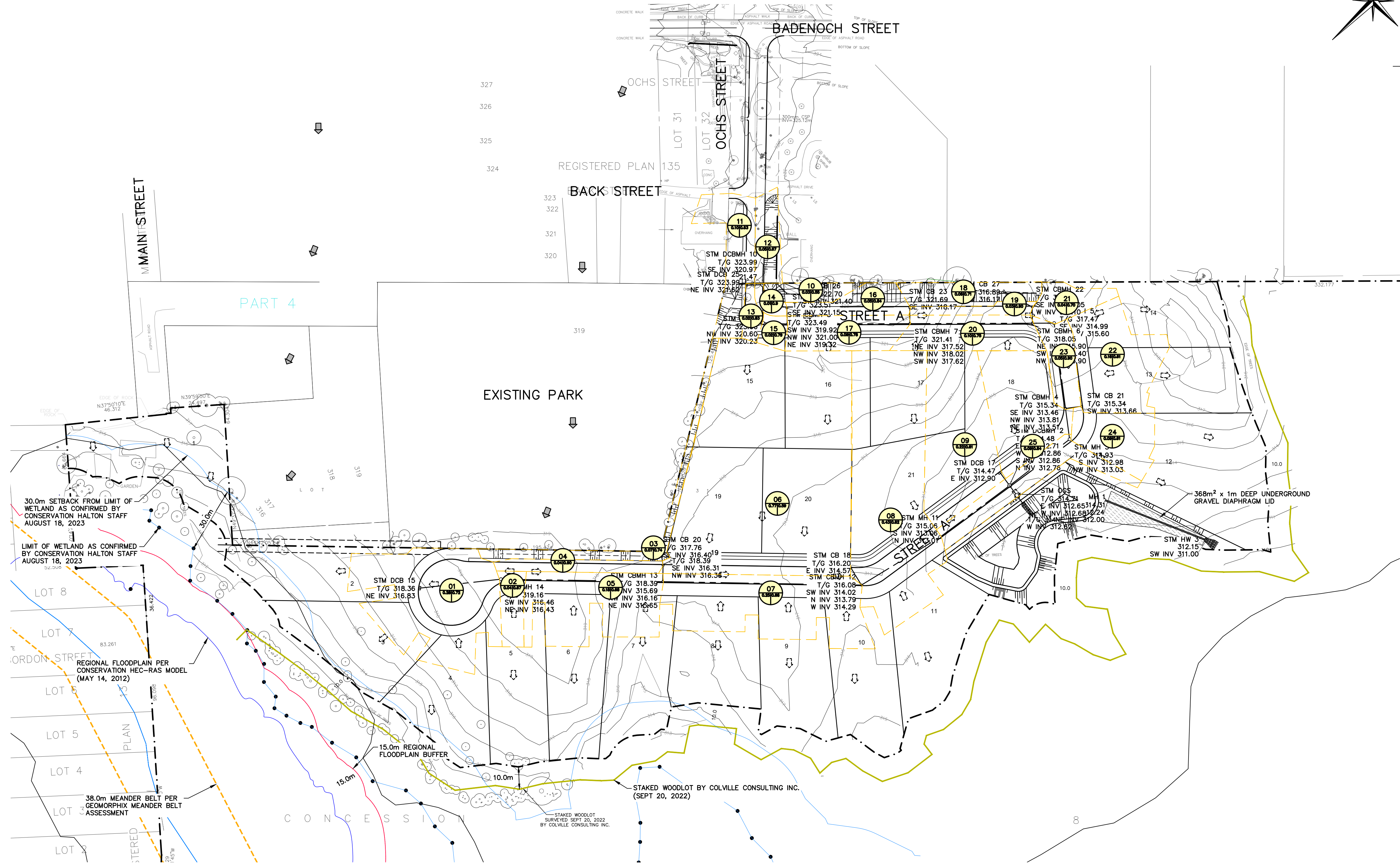
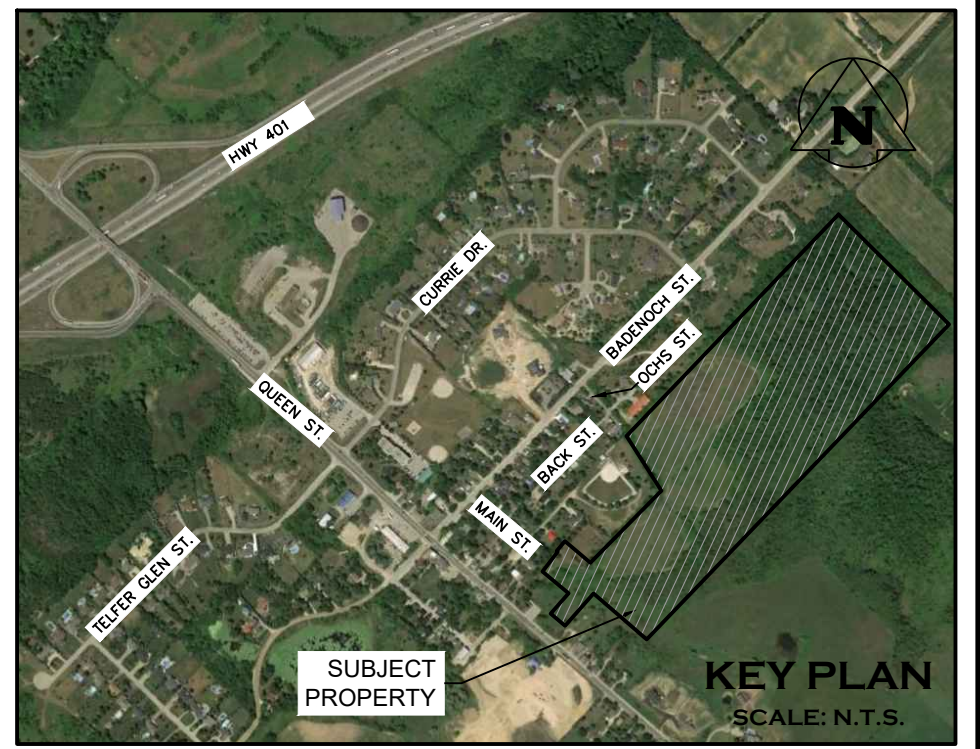
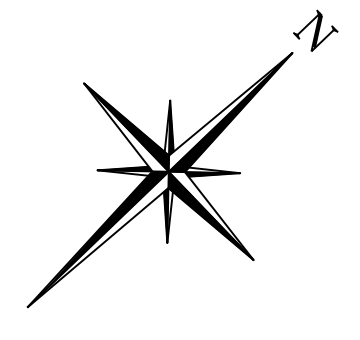
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Project
**11 MAIN STREET
TOWN OF PUSLINCH**

Drawing
**POST-DEVELOPMENT
DRAINAGE PLAN**



Engineer	Engineer				2800 HIGH POINT DRIVE SUITE 100 MILTON, ON. L9T 6P4 905-875-0026 T 905-875-4915 F INFO@CFROZIER.CA
Drawn	M.I.M.	Design	M.I.M.	Project No.	2366-6537
Check	B.W.	Check	B.W.	Scale	1:1000
					Dwg. FIG. 7



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- EXISTING DITCH
- EXISTING GRADE
- EXISTING OVERLAND FLOW DIRECTION
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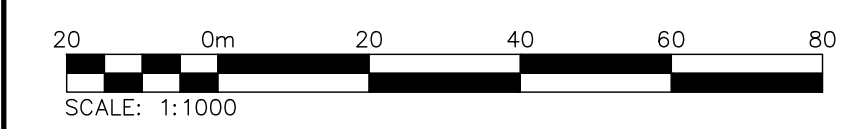
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Project
**11 MAIN STREET
TOWN OF PUSLINCH**

Drawing
**STORM DESIGN SHEET
DRAINAGE PLAN**



Engineer	Engineer			2800 HIGH POINT DRIVE SUITE 100 MILTON, ON. L9T 6P4 905-875-0026 T 905-875-4915 F INFO@CFROZIER.CA
Drawn M.I.M.	Design M.I.M.			
Check B.W.	Check B.W.	Scale 1:1000	Dwg. FIG. 8	