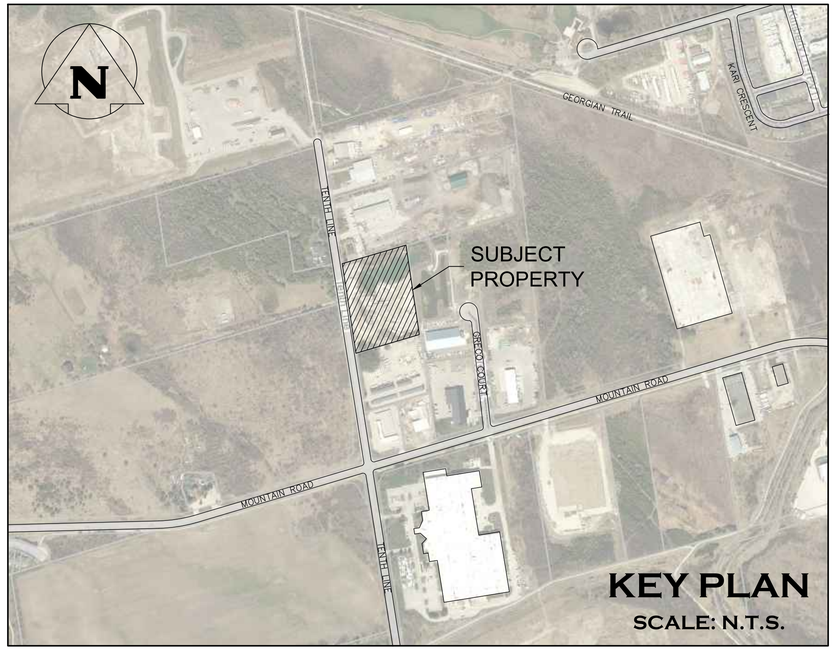
555 TENTH LINE

TOWN OF COLLINGWOOD

COUNTY OF SIMCOE

SHEET LIST TABLE	
SHEET DESCRIPTION	SHEET TITLE
C100	COVER
C101	SITE PLAN
C101A	GENERAL SITE SERVICING PLAN
C102	REMOVALS & EROSION AND SEDIMENT CONTROL PLAN
C103	GRADING PLAN
C104	POST DEVELOPMENT STORM DRAINAGE PLAN
C105A	STORMWATER MANAGEMENT FACILITY PLAN
C105B	STORMWATER MANAGEMENT FACILITY PROFILE
C105C	STORMWATER MANAGEMENT DETAILS
C106	WATER SERVICE CONNECTION PROFILE
C107	ENCROACHMENT PLAN
T300	VEHICLE MANEUVERING RIGHT-IN TURNS
T301	VEHICLE MANEUVERING RIGHT-OUT TURNS



MUNICIPALITY

TOWN OF COLLINGWOOD
97 HURONTARIO STREET
COLLINGWOOD, ONTARIO, L9Y 3Z5

COUNTY

COUNTY OF SIMCOE
1110 HIGHWAY 26
MIDHURST, ONTARIO, L0L 1X0

DEVELOPER

AMRIZE CANADA INC.
9-1940 OXFORD ST. E
LONDON, ONTARIO, N5V 2Z8

DEVELOPER'S ENGINEER & LANDSCAPE ARCHITECT

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

MASTER LEGEND

EXISTING FEATURES (EX.)

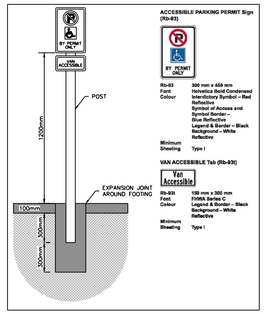
- EX. CONTOUR
- EX. GRADE
- EX. TREELINE
- EX. WATERCOURSE
- EX. DITCH
- EX. WATERMAIN
- EX. WATER SERVICE
- EX. FIRE HYDRANT & VALVE
- EX. SANITARY SEWER & MANHOLE
- EX. SANITARY FORCEMAIN
- EX. SANITARY SERVICE
- EX. STORM SEWER & MANHOLE
- EX. STORM CATCHBASIN
- EX. STORM DOUBLE CATCHBASIN
- EX. STORM CATCHBASIN MANHOLE
- EX. STORM DOUBLE CATCHBASIN MANHOLE
- EX. GAS MAIN
- EX. BELL LINE
- EX. BELL PEDESTAL
- EX. CABLE TELEVISION PEDESTAL
- EX. HYDRO POLE
- EX. LIGHT STANDARD
- EX. SIGN
- EX. BUILDING
- EX. BENCHMARK NUMBER & LOCATION
- EX. BOREHOLE NUMBER & LOCATION

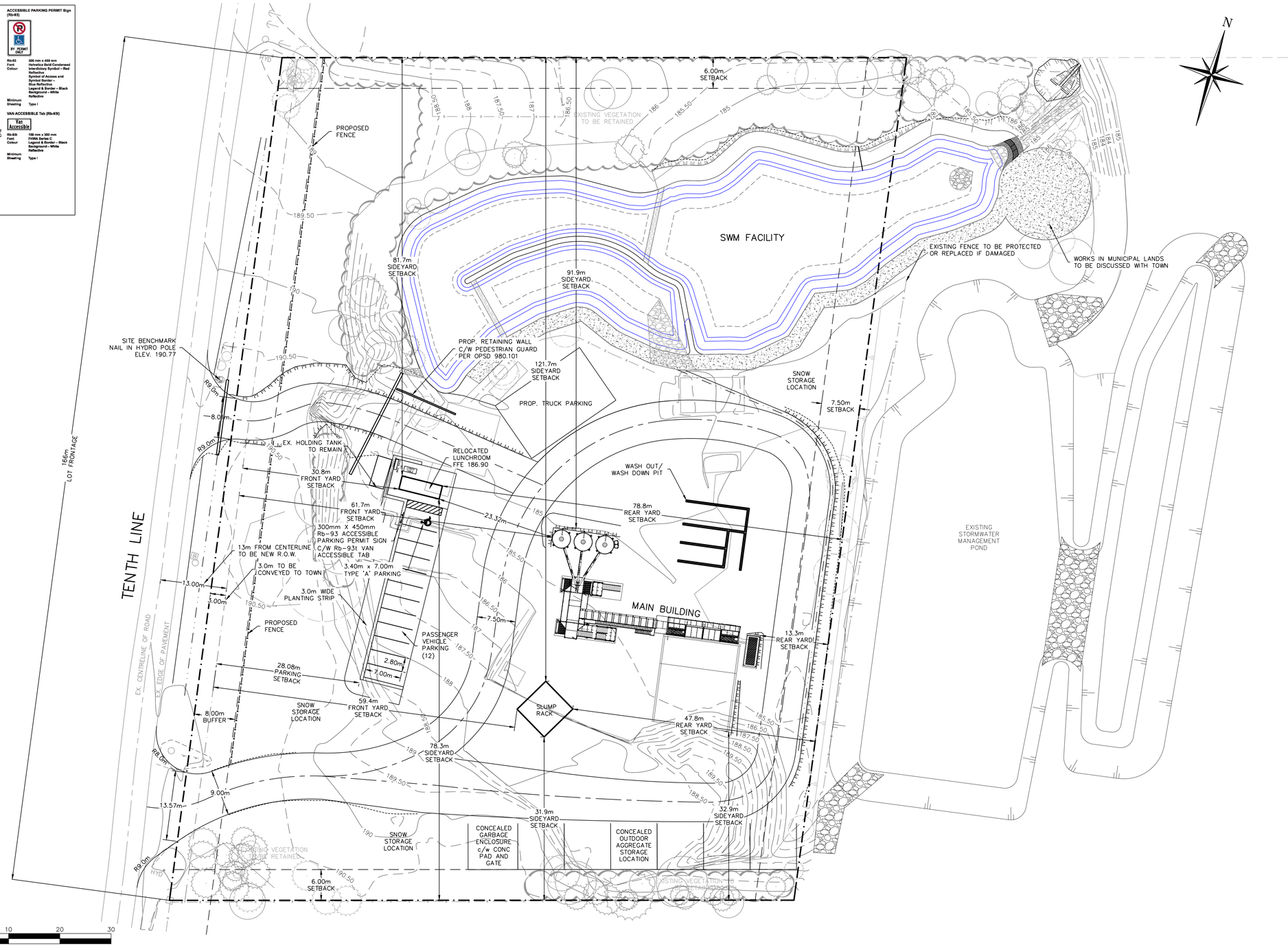
PROPOSED FEATURES (PR.)

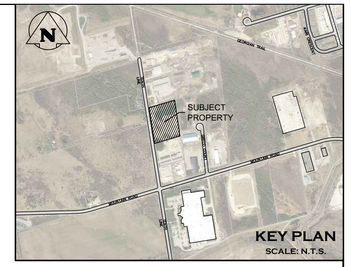
- PR. PROPERTY LIMITS
- PR. ELEVATION
- PR. ELEVATION (MATCH EX. ELEVATION)
- PR. SWALE & SLOPE
- PR. DITCH DRAINAGE
- PR. WATERMAIN & VALVE
- PR. WATER SERVICE
- PR. FIRE HYDRANT & VALVE
- PR. WATER VALVE CHAMBER
- PR. WATER QUALITY TESTING STATION
- PR. SANITARY SEWER & MANHOLE
- PR. SANITARY FORCEMAIN
- PR. SANITARY SERVICE
- PR. SANITARY CATCHMENT
  - CATCHMENT AREA ID
  - AREA (ha)
  - POPULATION (3.5 p.p.u.)
- PR. STORM SEWER & MANHOLE
- PR. CATCHBASIN
- PR. DOUBLE CATCHBASIN
- PR. CATCHBASIN MANHOLE
- PR. DOUBLE CATCHBASIN MANHOLE
- PR. STORM CATCHMENT
  - CATCHMENT AREA ID
  - RUNOFF COEFFICIENT
  - DRAINAGE AREA (ha)
- PR. CURB CUT
- PR. CANADA POST COMMUNITY MAIL BOX
- PR. TRANSFORMER
- PR. STOP SIGN
- PR. NAME SIGN
- PR. NO PARKING SIGN
- PR. FENCE
- PR. BUILDING ENVELOPE
- PR. LIGHT DUTY SILT FENCE
- PR. HEAVY DUTY SILT FENCE
- PR. STRAW BALE CHECK FLOW
- PR. ROCK CHECK DAM
- PR. SLOPE (3:1 MAX.)
- PR. TREE PRESERVATION AREA
- PR. TOPSOIL STOCKPILE LOCATION

PROJECT No.: 2577-6904

FOURTH SUBMISSION







LEGEND

- PROPERTY LINE
- PROP. FENCE
- EX. WATERMAIN
- EX. FENCE

SITE STATISTICS		
M2 ZONE	REQUIRED	PROVIDED
LOT AREA	3000 sq.m.	20060 sq.m.
LOT FRONTAGE	30 m	166 m
MAX LOT COVERAGE	50%	4.36%
LANDSCAPE OPEN SPACE	15%	40%
PARKING	3	12

MAIN BUILDING		
M2 ZONE	REQUIRED	PROVIDED
FRONT YARD SETBACK	12 m	61.7 m
EXTERIOR SETBACK	12 m	N/A
INTERIOR SETBACK	6 m	32.9 m
REAR YARD	7.5 m	13.3 m
MAX HEIGHT	15 m	14.6 m
GROSS FLOOR AREA	--	173.7 m²

LUNCHROOM BUILDING		
M2 ZONE	REQUIRED	PROVIDED
FRONT YARD SETBACK	12 m	30.8 m
EXTERIOR SETBACK	12 m	N/A
INTERIOR SETBACK	6 m	78.3 m
REAR YARD	7.5 m	78.8 m
MAX HEIGHT	15 m	3.5 m
GROSS FLOOR AREA	--	21.3 m²

SLUMP RACK		
M2 ZONE	REQUIRED	PROVIDED
FRONT YARD SETBACK	12 m	59.4 m
EXTERIOR SETBACK	12 m	N/A
INTERIOR SETBACK	6 m	31.9 m
REAR YARD	7.5 m	47.8 m
MAX HEIGHT	15 m	N/A

Town Stamp

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6. DO NOT SCALE DRAWINGS.

TEMPORARY BENCHMARKS

TBM#1-NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town

SINCE 1858 A PLACE TO LIVE WORK & PLAY
COLLINGWOOD

No.	ISSUE	DATE: YYYY/MM/DD
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1	ISSUED FOR SECOND SUBMISSION	2025/12/11
2	ISSUED FOR THIRD SUBMISSION	2026/05/29
3	ISSUED FOR FOURTH SUBMISSION	2026/08/28

ENGINEER

LICENSED PROFESSIONAL ENGINEER
J.T. KERSCHBAUMER
100532793
Aug 28, 2026
PROVINCE OF ONTARIO

ENGINEER

LICENSED PROFESSIONAL ENGINEER
A.MYSLIWIEC
100565278
August 28, 2026
PROVINCE OF ONTARIO

Project

555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing

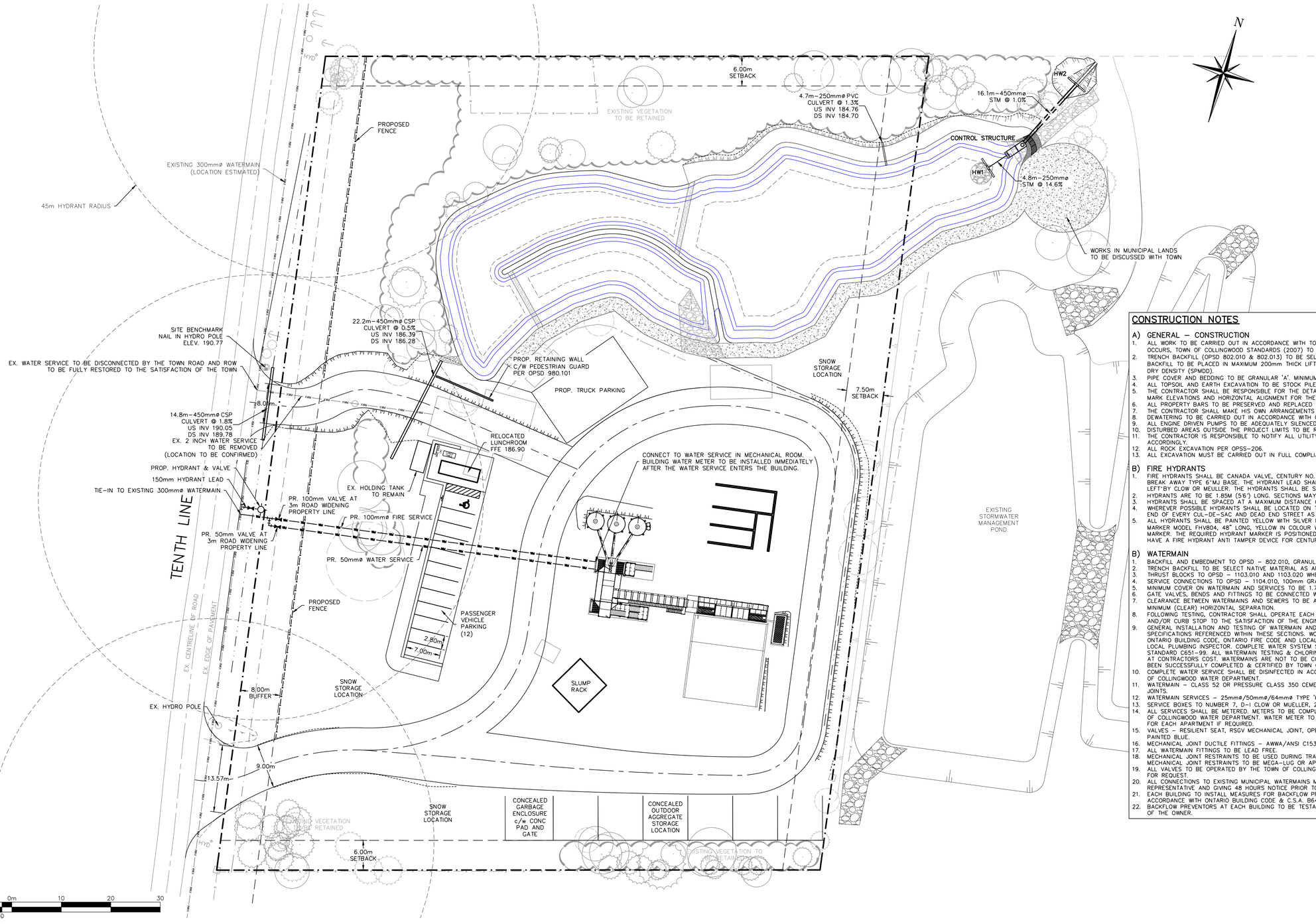
SITE PLAN

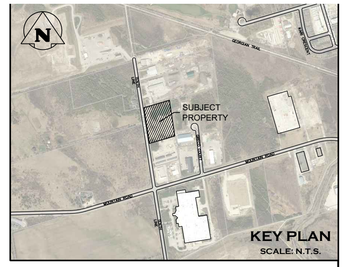
CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By	D.G.	Design By	D.G.
Check By	J.K.	Check By	C.S.

Project 2577-6904

Drawing C101





LEGEND

- PROPERTY LINE
- PROP. WATERMAIN
- PROP. FENCE
- EX. WATERMAIN
- EX. FENCE

CONSTRUCTION NOTES

A) GENERAL – CONSTRUCTION

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF COLLINGWOOD STANDARDS (2007), OPSD AND OPSS. WHERE CONFLICT OCCURS, TOWN OF COLLINGWOOD STANDARDS (2007) TO GOVERN.
2. TRENCH BACKFILL (OPSD 802.010 & 802.013) TO BE SELECT NATIVE MATERIAL OR IMPORTED SELECT SUBGRADE TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 200mm THICK LIFTS AND COMPACTED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
3. PIPE COVER AND BEDDING TO BE GRANULAR 'A'. MINIMUM 150mm DEPTH COMPACTED TO A MINIMUM 95% SPMDD.
4. ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK. THE OWNER'S ENGINEER WILL CONFIRM ALL BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT FOR THE CONTRACTOR.
6. ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
8. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS–517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION.
9. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
10. DISTURBED AREAS OUTSIDE THE PROJECT LIMITS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
11. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO–ORDINATE CONSTRUCTION ACCORDINGLY.
12. ALL ROCK EXCAVATION PER OPSS–206.
13. ALL EXCAVATION MUST BE CARRIED OUT IN FULL COMPLIANCE WITH MOST RECENT GUIDELINES OF OHSA.

B) FIRE HYDRANTS

1. FIRE HYDRANTS SHALL BE CANADA VALVE, CENTURY NO. 1 OPEN LEFT WITH 2 CSA HOSE PORTS, ONE 33 B PUMPER PORT AND A BREAK AWAY TYPE 6"MJ BASE. THE HYDRANT LEAD SHALL BE MINIMUM 150 MM WITH RESILIENT SEATED GATE VALVE SHUT OFF 'OPEN LEFT'BY CLOW OR MEULLER. THE HYDRANTS SHALL BE SELF DRAINING AND INSTALLED AS PER OPSD 1105.010.
2. HYDRANTS ARE TO BE 1.85M (5'6") LONG. SECTIONS MAY BE ADDED IF REQUIRED TO BE INSTALLED BELOW 1.85M SECTION.
3. HYDRANTS SHALL BE SPACED AT A MAXIMUM DISTANCE OF 90 M IN RESIDENTIAL, COMMERCIAL OR INDUSTRIAL AREAS.
4. WHEREVER POSSIBLE HYDRANTS SHALL BE LOCATED ON THE PROJECTION OF SIDE LOT LINES. A HYDRANT SHALL BE PLACED AT THE END OF EVERY CUL–DE–SAC AND DEAD END STREET AS WELL AS AT THE HIGH POINTS IN ROADS.
5. ALL HYDRANTS SHALL BE PAINTED YELLOW WITH SILVER PORTS AND BONNETS. ALL HYDRANTS SHALL HAVE A FLEXSTAKE HYDRANT MARKER MODEL FHV804, 48" LONG, YELLOW IN COLOUR WITH A REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES AT THE TOP OF THE MARKER. THE REQUIRED HYDRANT MARKER IS POSITIONED ON THE RIGHT PORT AS VIEWED FROM THE STREET. ALL HYDRANTS SHALL HAVE A FIRE HYDRANT ANTI TAMPER DEVICE FOR CENTURY HYDRANTS COLOUR CODED BLUE.

B) WATERMAIN

1. BACKFILL AND EMBEDMENT TO OPSD – 802.010, GRANULAR 'A' EMBEDMENT.
2. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
3. THRUST BLOCKS TO OPSD – 1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
4. SERVICE CONNECTIONS TO OPSD – 1104.010, 100mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE.
5. MINIMUM COVER ON WATERMAIN AND SERVICES TO BE 1.7m.
6. GATE VALVES, BENDS AND FITTINGS TO BE CONNECTED WITH ROMAC GRIPPER RING RESTRAINING CLAMP.
7. CLEARANCE BETWEEN WATERMAINS AND SEWERS TO BE A MINIMUM OF 0.5m VERTICAL (CLEAR) C/W RIGID INSULATION AND 2.5m MINIMUM (CLEAR) HORIZONTAL SEPARATION.
8. FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE GATE VALVE AND/OR CURB STOP TO THE SATISFACTION OF THE ENGINEER.
9. GENERAL INSTALLATION AND TESTING OF WATERMAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 701 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS. WORK MUST BE PREFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE AND LOCAL CODES. WATER LINES ARE TO BE TESTED TO THE SATISFACTION OF THE LOCAL PLUMBING INSPECTOR. COMPLETE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF AWWA STANDARD C651–99. ALL WATERMAIN TESTING & CHLORINATION WILL BE CONDUCTED BY TOWN OF COLLINGWOOD WATER DEPARTMENT AT CONTRACTORS COST. WATERMAINS ARE NOT TO BE CONNECTED TO EXISTING WATERMAINS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED & CERTIFIED BY TOWN OF COLLINGWOOD WATER DEPARTMENT.
10. COMPLETE WATER SERVICE SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF O. REG. 459/00 & SATISFACTION OF TOWN OF COLLINGWOOD WATER DEPARTMENT.
11. WATERMAIN – CLASS 52 OR PRESSURE CLASS 350 CEMENT LINED DUCTILE IRON. CONDUCTIVITY CONNECTORS TO BE USED ON ALL JOINTS.
12. WATERMAIN SERVICES – 25mmø/50mmø/64mmø TYPE 'K' SOFT COPPER PIPE AS NOTED.
13. SERVICE BOXES TO NUMBER 7, D–I CLOW OR MUELLER, 24" STAINLESS STEEL RODS STRAIGHT c/w CAP PAINTED BLUE.
14. ALL SERVICES SHALL BE METERED. METERS TO BE COMPLETE WITH REMOTE READOUT OR RADIO READ AS DETERMINED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT. WATER METER TO BILL FOR ENTIRE PROPERTY. ADDITIONAL METERS CAN BE ADDED INTERNALLY FOR EACH APARTMENT IF REQUIRED.
15. VALVES – RESILIENT SEAT, RSGV MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5–SL–48 SLIDING VALVE BOX C/W CAP PAINTED BLUE.
16. MECHANICAL JOINT DUCTILE FITTINGS – AWWA/ANSI C153/A21.53.
17. ALL WATERMAIN FITTINGS TO BE LEAD FREE.
18. MECHANICAL JOINT RESTRAINTS TO BE USED DURING TRANSITION OF WATERMAIN INSTALLATION IN NATIVE SOILS TO ENGINEERED FILL. MECHANICAL JOINT RESTRAINTS TO BE MEGA–LUG OR APPROVED EQUAL.
19. ALL VALVES TO BE OPERATED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT. CONTRACTOR TO PROVIDE MIN. 48hr NOTIFICATION FOR REQUEST.
20. ALL CONNECTIONS TO EXISTING MUNICIPAL WATERMAINS MUST BE INSPECTED BY TOWN OF COLLINGWOOD WATER DEPARTMENT OR REPRESENTATIVE AND GIVING 48 HOURS NOTICE PRIOR TO BACKFILLING OPERATIONS.
21. EACH BUILDING TO INSTALL MEASURES FOR BACKFLOW PROTECTION SUITABLE TO TOWN OF COLLINGWOOD WATER DEPARTMENT IN ACCORDANCE WITH ONTARIO BUILDING CODE & C.S.A. B64 AND THE TOWN WATER BY–LAW.
22. BACKFLOW PREVENTORS AT EACH BUILDING TO BE TESTABLE & CERTIFIED ANNUALLY, WITH ALL ASSOCIATED COSTS THE RESPONSIBILITY OF THE OWNER.

Town Stamp

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TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town

SINCE 1858 A PLACE TO LIVE WORK & PLAY
COLLINGWOOD

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1	ISSUED FOR SECOND SUBMISSION	2025/12/11
2	ISSUED FOR THIRD SUBMISSION	2026/05/29
3	ISSUED FOR FOURTH SUBMISSION	2026/08/28

ENGINEER

LICENSED PROFESSIONAL ENGINEER
J.T. KERSCHBAUMER
100532793
PROVINCE OF ONTARIO
DATE 28, 2026

ENGINEER

LICENSED PROFESSIONAL ENGINEER
A.MYSLIWIEC
100565278
August 28, 2026
PROVINCE OF ONTARIO

Project

555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing

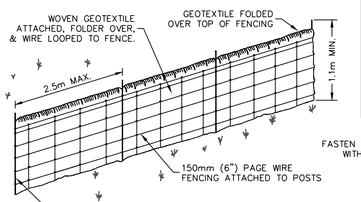
GENERAL SITE SERVICING PLAN

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

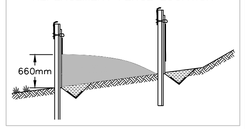
Drawn By	D.G.	Design By	D.G.	Project	2577–6904
Check By	J.K.	Check By	C.S.	Drawing	C101A

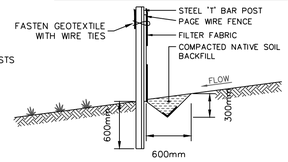
TYPICAL HEAVY DUTY SILT FENCE

SCALE: N.T.S.



REPLACEMENT FENCE LOCATION

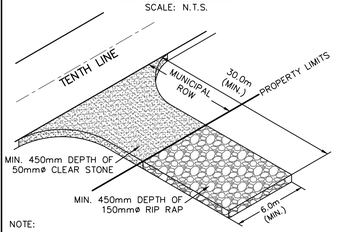




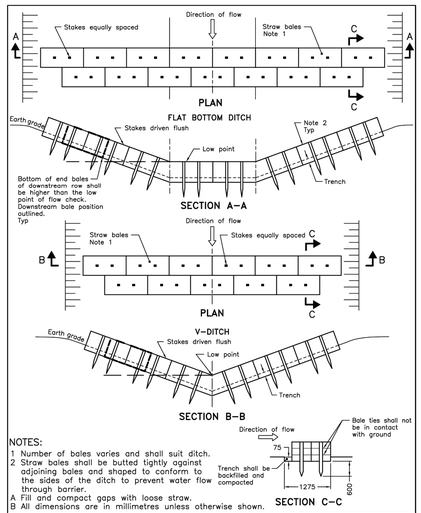
NOTES:
1. SILT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. SILT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 "CHART F4–3C TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT."
3. SILT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TOED INTO THE SOIL A MIN. OF 300mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% INSITU SOIL STRENGTH.
4. STEEL 'TEE' BAR POSTS ARE TO BE SPACED MAX. 2.5m ON CENTER WITH A MIN. HEIGHT OF 1.1m.
5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
6. GEOTEXTILE FABRIC TO BE COMPRISED OF WOVEN OR NON–WOVEN U.V. STABILIZED MATERIAL. FABRIC TO BE FOLDED OVER TOP OF FENCE MIN. 300mm AND WIRE FASTENED.

MUD MAT DETAIL

SCALE: N.T.S.



NOTE:
GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUAL) TO BE PLACED AS SEPARATION BARRIER BETWEEN EXISTING GROUND AND CLEAR STONE.



NOTES:
1 Number of bales varies and shall suit ditch.
2 Straw bales shall be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
A Fill and compact gaps with loose straw.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3
STRAW BALE FLOW CHECK DAM	OPSD 219.180	

10 0m 10 20 30
SCALE: 1:400

LEGEND

- PROPERTY LINE
- PROP. HEAVY DUTY SILT FENCE
- PROP. STRAW BALE FLOW CHECK DAM
- X — OBJECT REMOVAL
- // — LINEAR REMOVAL

CONSTRUCTION NOTES:

GENERAL

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED, SEDIMENT AND EROSION.
2. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL OF THE CONTRACT ADMINISTRATOR AND TOWN STAFF.
3. THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE ON–SITE TO REPAIR SEDIMENT AND EROSION CONTROL MEASURES IN THE EVENT OF UNFORESEEN CONDITIONS: HIGHWATER, EXTREME RAINFALL EVENTS, ETC.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE THROUGH SITE SUCH THAT NO UPSTREAM OR DOWNSTREAM IMPACT OCCURS DURING CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR WILL BE RESPONSIBLE TO CLEAN ALL ADJACENT ROADWAYS AS REQUIRED OR AS DIRECTED BY SITE ENGINEER OR TOWN STAFF.
6. DURING EARTHWORK ACTIVITIES THE CONTRACTOR WILL ENSURE THE MEASURES FOR DUST SUPPRESSION ARE PROVIDED AS REQUIRED OR AS DIRECTED BY THE TOWN OR ENGINEER.

MAINTENANCE & OPERATION OF SEDIMENT CONTROLS

A) SILT FENCE

1. SILT FENCE TO BE INSTALLED ALONG PROPERTY LINE AND ALONG LIMITS OF PROTECTED AREAS.
2. SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW–OUTS AND ACCUMULATION OF SEDIMENT.
3. SILT FENCE MUST BE INSPECTED IMMEDIATELY AFTER EVERY RAIN STORM EVENT OR AS DIRECTED BY SITE ENGINEER.
4. SEDIMENT DEPOSITS MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
5. ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.

B) MUD MATS

1. GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUAL) TO BE PLACED AS SEPARATION BARRIER BETWEEN EXISTING GROUND AND CLEAR STONE.
2. INSPECT MUD MATS WEEKLY TO ASSESS CONDITION AND TO ENSURE OPERATION EFFICIENCY.
3. SUPPLY AND PLACE ADDITIONAL STONE TO PREVENT MUD TRACKING AS DIRECTED BY SITE ENGINEER.
4. MUD MATS TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR AS DIRECTED BY SITE ENGINEER.

C) STRAW BALE CHECK DAM

1. STRAW BALES MUST BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL OR AS DIRECTED BY THE SITE ENGINEER. NECESSARY REPAIRS SHOULD BE MADE PROMPTLY.
2. REMOVE ACCUMULATED SEDIMENT UPSTREAM OF BALES IF GREATER THAN ONE HALF OF DAM HEIGHT.
3. STRAW BALES TO REMAIN IN PLACE UNTIL CONSTRUCTION OF ROADWAYS AND ROADSIDE DITCHES HAVE BEEN FINISHED WITH TOPSOIL AND SOD OR AS DIRECTED BY SITE ENGINEER.

D) DUST CONTROL

1. AS REQUIRED, ALL SOFT AND HARD SURFACES WILL BE WETTED TO LIMIT AIR BORN DUST RESULTING FROM THE CONSTRUCTION WORKS.
2. CLEANING OF THE ROAD PAVEMENT ALONG THE PROPERTY FRONTAGE WILL BE COMPLETED AS REQUIRED.
3. ALL TRUCKS LEAVING THE SITE LOADED WITH EXCAVATION MATERIALS WILL BE TARPED/COVERED.

IN ADDITION TO THE ITEMS LISTED ABOVE, THE CONSTRUCTION SITE WILL BE MONITORED DAILY TO ENSURE DUST LEVELS ARE KEPT TO A MINIMUM. ROADS ADJACENT TO THE MUD MATS WILL BE MONITORED AND WILL BE CLEANED AS REQUIRED.

Town Stamp

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6. DO NOT SCALE DRAWINGS.

TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town: SINCE 1858 A PLACE TO LIVE WORK & PLAY COLLINGWOOD

No.	ISSUE	DATE: YYYY/MM/DD
0	ISSUED FOR FIRST SUBMISSION	2025/06/24
1	ISSUED FOR SECOND SUBMISSION	2025/12/11
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3	ISSUED FOR FOURTH SUBMISSION	2026/08/28

ENGINEER: LICENSED PROFESSIONAL ENGINEER — I.T. KERSCHBAUMER — 100532793 — Aug 28, 2026 — PROVINCE OF ONTARIO

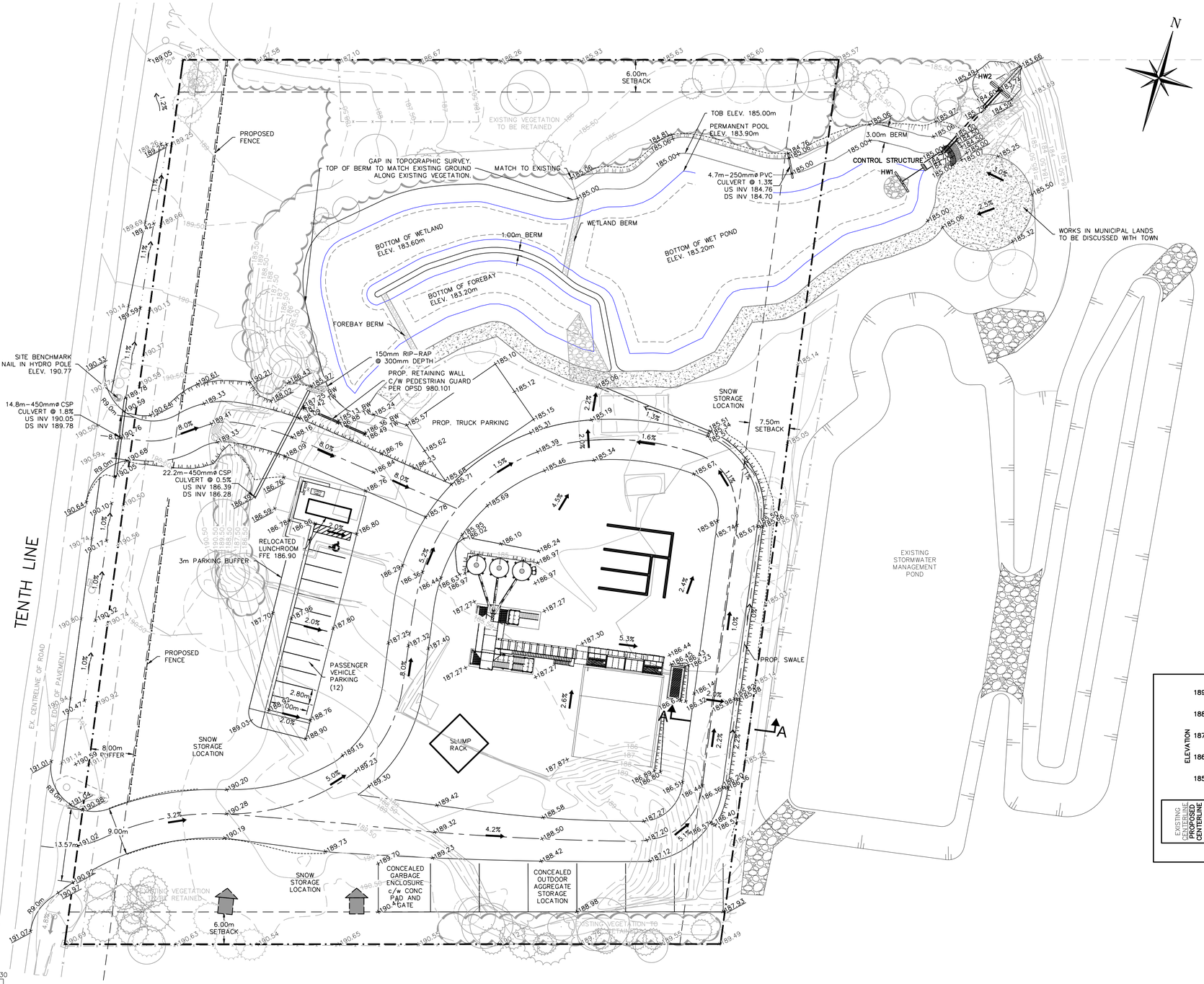
ENGINEER: LICENSED PROFESSIONAL ENGINEER — A.MYSLIWIEC — 100565278 — August 28, 2026 — PROVINCE OF ONTARIO

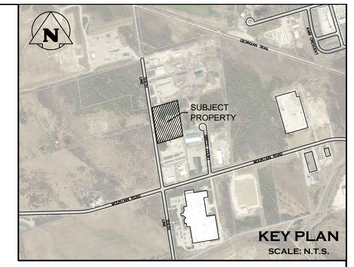
Project: 555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing: REMOVALS & EROSION AND SEDIMENT CONTROL PLAN

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON L9Y 4L4
705-445-3510
WWW.CFCROZIER.CA

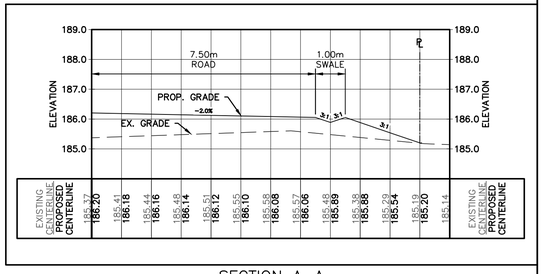
Drawn By	D.G.	Design By	D.G.	Project	2577–6904
Check By	J.K.	Check By	C.S.	Drawing	C102





LEGEND

- PROPERTY LINE
- 248.00 EXISTING CONTOUR
- 248.84+ EXISTING ELEVATION
- 5.0% EXISTING SLOPE
- +248.00 PROPOSED ELEVATION
- +247.26 MATCH EXISTING ELEVATION
- 5.0% PROPOSED SLOPE
- PROPOSED SWALE



SECTION A–A
SCALE 1:100

Town Stomp

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TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town

SINCE 1858 A PLACE TO LIVE WORK & PLAY
COLLINGWOOD

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ENGINEER

LICENSED PROFESSIONAL ENGINEER
J.T. KERSCHBAUMER
100532793
Aug 28, 2026
PROVINCE OF ONTARIO

ENGINEER

LICENSED PROFESSIONAL ENGINEER
A.MYSLIWIEC
100565278
August 28, 2026
PROVINCE OF ONTARIO

Project

555 TENTH LINE
TOWN OF COLLINGWOOD

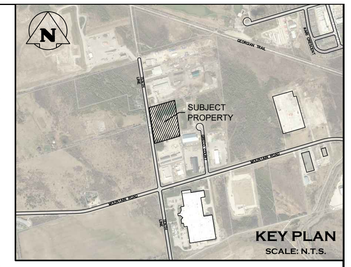
Drawing

GRADING PLAN

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By	D.G.	Design By	D.G.	Project	2577–6904
Check By	J.K.	Check By	C.S.	Drawing	C103





LEGEND

- PROPERTY LINE
- STORM CATCHMENT AREA
- CATCHMENT NUMBER
- RUNOFF VALUE
- CATCHMENT AREA (ha)

10 0m 10 20 30
SCALE: 1:400

Town Stamp

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TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town: SINCE 1858, A PLACE TO LIVE, WORK & PLAY — COLLINGWOOD

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ENGINEER: LICENSED PROFESSIONAL ENGINEER — J.T. KERSCHBAUMER — 100532793 — August 28, 2026 — PROVINCE OF ONTARIO

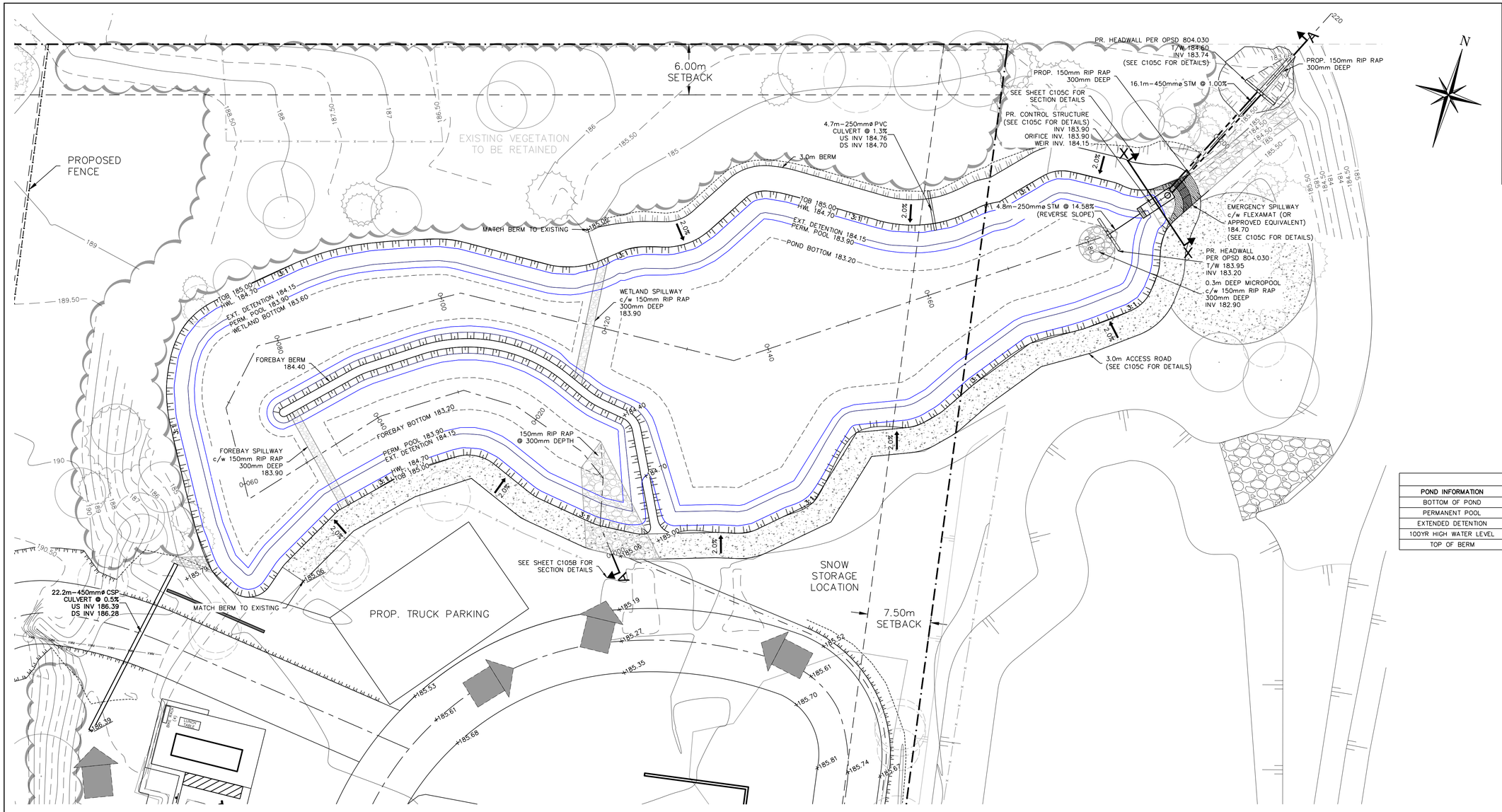
ENGINEER: LICENSED PROFESSIONAL ENGINEER — A.MYSLIWIEC — 100565278 — August 28, 2026 — PROVINCE OF ONTARIO

Project: 555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing: POST DEVELOPMENT STORM DRAINAGE PLAN

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By	D.G.	Design By	D.G.	Project	2577–6904
Check By	J.K.	Check By	C.S.	Drawing	C104



LEGEND

- PROPERTY LINE
- 248.00 EXISTING CONTOUR
- 248.84+ EXISTING ELEVATION
- 5.0% EXISTING SLOPE
- +248.00 PROPOSED ELEVATION
- +247.26 MATCH EXISTING ELEVATION
- 5.0% PROPOSED SLOPE
- PROPOSED SWALE
- 3:1 SLOPE

POND INFORMATION

POND INFORMATION	ELEVATION	STORAGE
BOTTOM OF POND	183.20m – 183.60m	0m³
PERMANENT POOL	183.90m	1018m³ (DEAD)
EXTENDED DETENTION	184.15m	558m³ (ACTIVE)
100YR HIGH WATER LEVEL	184.70m	2047m³ (ACTIVE)
TOP OF BERM	185.00m	2989m³ (ACTIVE)

5 0m 5 10 15 20
SCALE: 1:250

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TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town: COLLINGWOOD — SINCE 1858 A PLACE TO LIVE WORK & PLAY

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ENGINEER: LICENSED PROFESSIONAL ENGINEER — A.MYSLIWIEC 100565278 — August 28, 2026 — PROVINCE OF ONTARIO

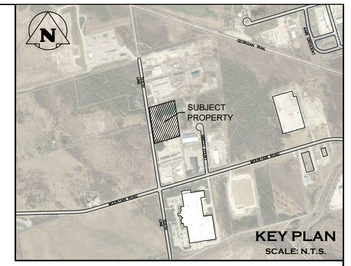
Project: 555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing: STORMWATER MANAGEMENT FACILITY PLAN

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

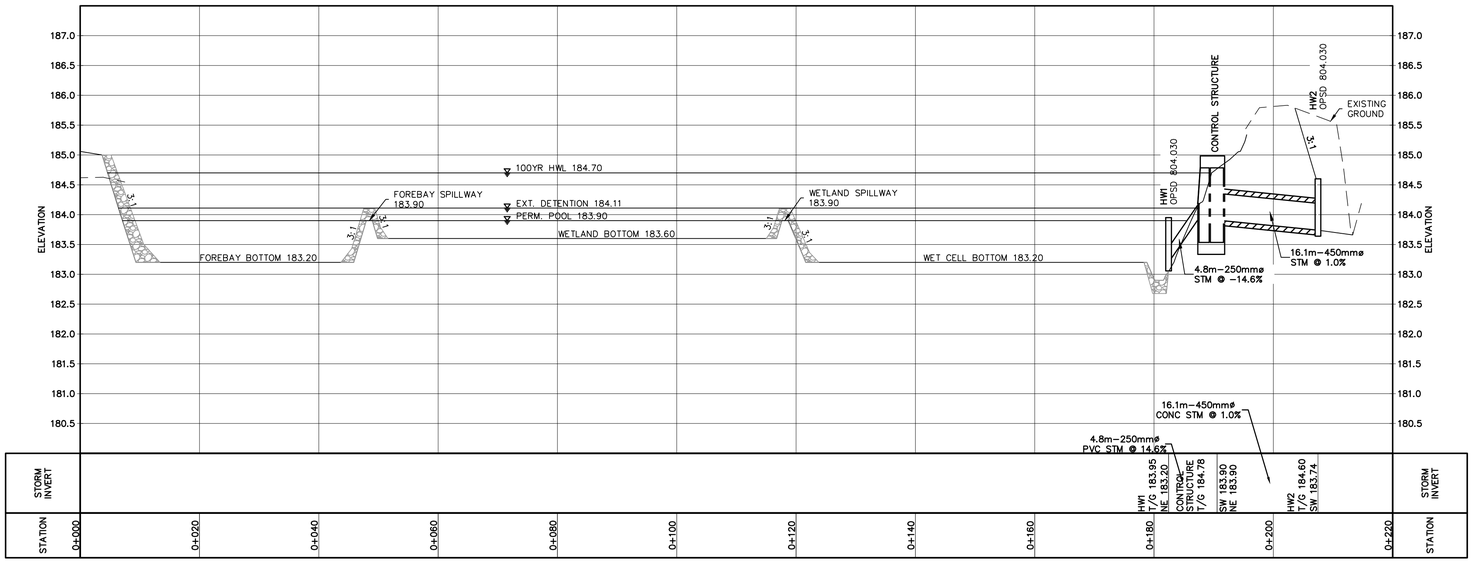
Drawn By	D.G.	Design By	D.G.
Check By	J.K.	Check By	C.S.

Project: 2577–6904
Drawing: C105A



LEGEND

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- 5.0% EXISTING SLOPE
- +248.00 PROPOSED ELEVATION
- +247.26 MATCH EXISTING ELEVATION
- 5.0% PROPOSED SLOPE
- PROPOSED SWALE
- 3:1 SLOPE



SECTION A–A
(SEE SHEET C105A)

SCALE: 1:50 VERTICAL

SCALE: 1:500 HORIZONTAL

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TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town: SINCE 1858 A PLACE TO LIVE WORK & PLAY — COLLINGWOOD

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ENGINEER: LICENSED PROFESSIONAL ENGINEER — J.T. KERSCHBAUMER 100532793 — AUG 28, 2026 — PROVINCE OF ONTARIO

ENGINEER: LICENSED PROFESSIONAL ENGINEER — A.MYSLIWIEC 100565278 — August 28, 2026 — PROVINCE OF ONTARIO

Project: 555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing: STORMWATER MANAGEMENT FACILITY PROFILE

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

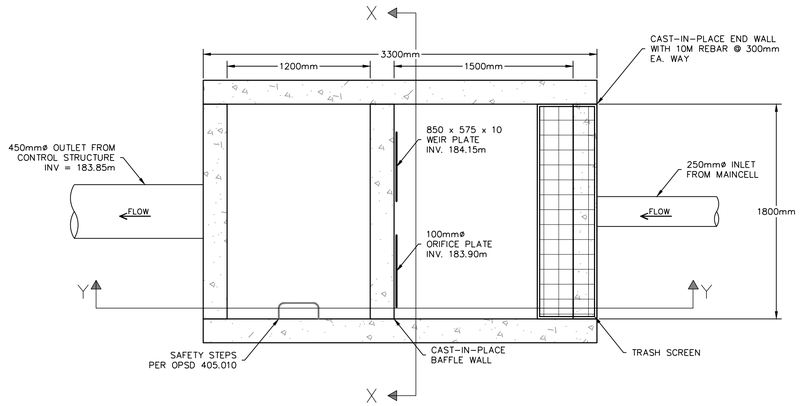
Drawn By	D.G.	Design By	D.G.	Project	2577–6904
Check By	J.K.	Check By	C.S.	Drawing	C105B

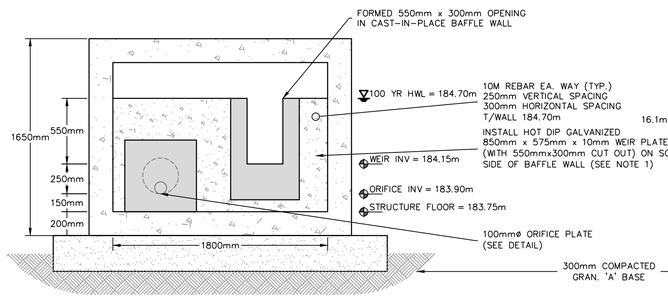
SWM OUTLET CONTROL STRUCTURE DETAIL

SCALE 1:25

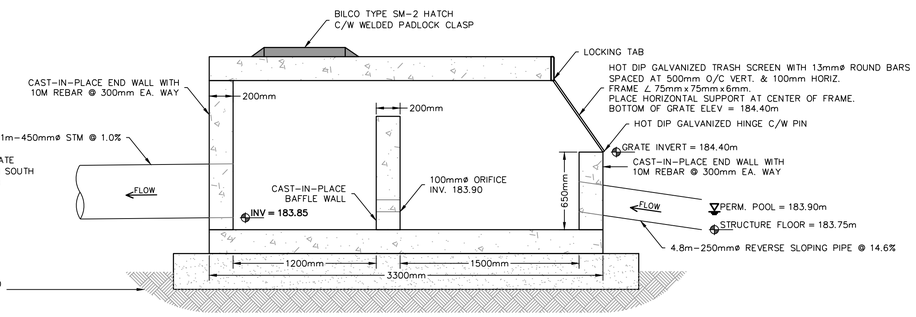
NOTES:

1. PLATE TO BE FASTENED TO CONCRETE WITH STAINLESS STEEL WEDGE ANCHOR BOLTS & WASHERS THROUGH PRE DRILLED 13mmø HOLES AS SHOWN. SILICONE OR PLASTIC SEAL SHALL BE PLACED BETWEEN WEIR PLATE AND CONCRETE WALL.
2. CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR OUTLET STRUCTURE (INCLUDING TRASH SCREEN & CAST-IN-PLACE WALLS) FOR ENGINEER'S REVIEW.
3. INLET GRATE SHALL BE WELDED PER CSA W59-M1989.
4. ALL STEEL TO BE HOT DIP GALVANIZED PER G-164, POST FABRICATION.
5. ALL STEEL SHALL CONFORM TO CSA-CAN-G40.21 M81, GRADE 300.

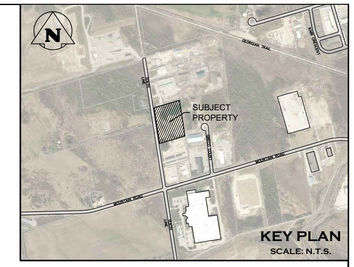


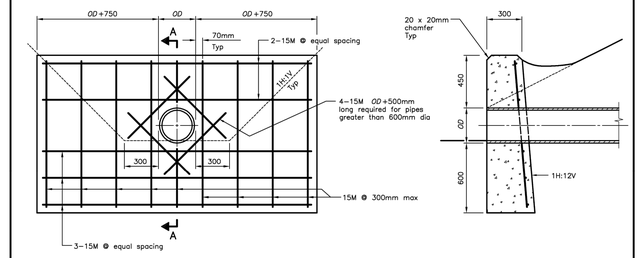


SECTION 'X'



SECTION 'Y'





FRONT ELEVATION **SECTION A-A**

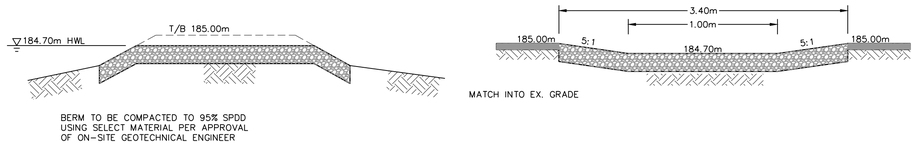
LEGEND:
OD – Outside diameter of pipe

NOTES:
A This OPSD to be read in conjunction with OPSD 3940.150.
B If a steel grate is required, refer to OPSD 804.05.
C Class of concrete: 30MPa.
D Cover to reinforcing bars 70mm ± 20mm.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 2
CONCRETE HEADWALL FOR PIPE LESS THAN 900mm DIAMETER		OPSD 804.030

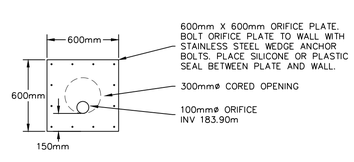
EMERGENCY SPILLWAY

SCALE: N.T.S.



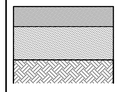
ORIFICE PLATE DETAIL

SCALE: 1:25



3.0m WIDE ACCESS ROAD STRUCTURE DETAIL

SCALE: N.T.S.



150mm	GRANULAR 'A'
300mm	GRANULAR 'B'
450mm	TOTAL

COMPACTED SUB-BASE (ALL TOPSOIL REMOVED)

NOTE:
1. REFER TO CONSTRUCTION NOTES FOR DETAILS ON PLACEMENT OF MATERIALS.

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TEMPORARY BENCHMARKS

TBM#1-NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

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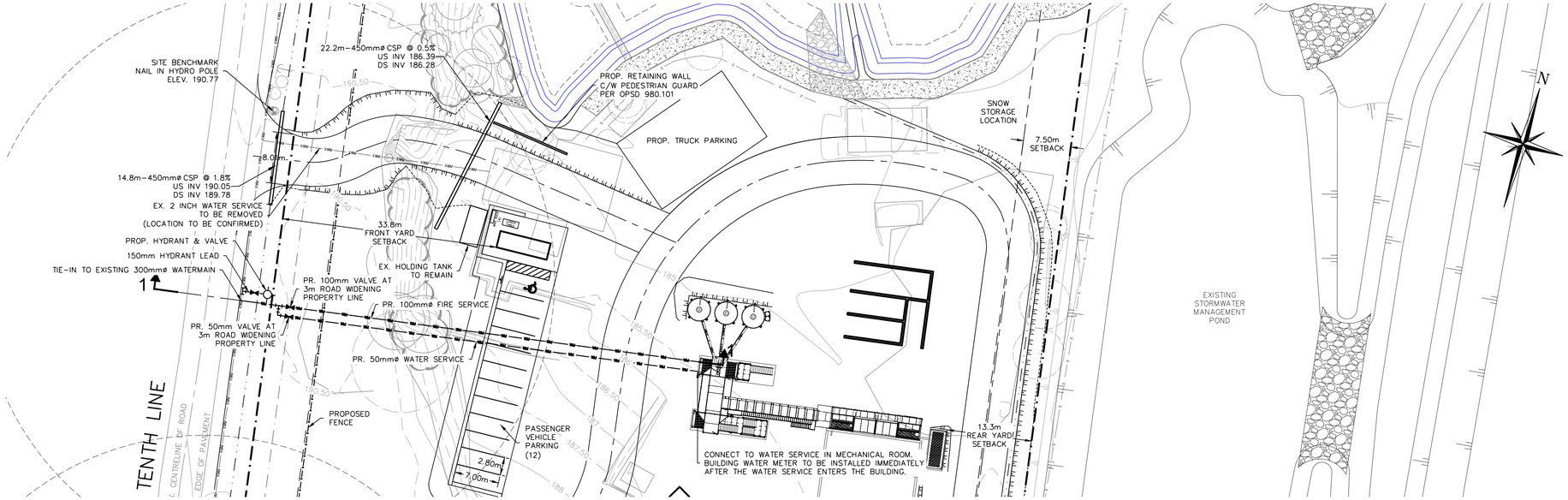
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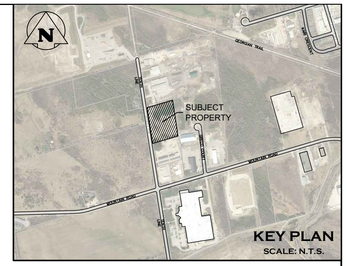
Project: 555 TENTH LINE, TOWN OF COLLINGWOOD

Drawing: STORMWATER MANAGEMENT DETAILS

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By	D.G.	Design By	D.G.	Project	2577-6904
Check By	J.K.	Check By	C.S.	Drawing	C105C

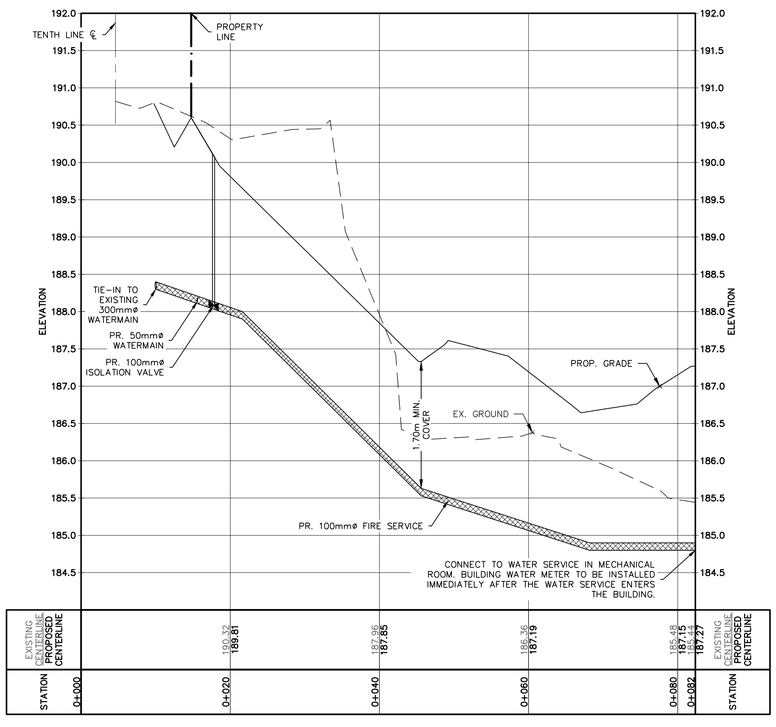




LEGEND

- PROPERTY LINE
- PROP. WATERMAIN
- PROP. FENCE
- EX. WATERMAIN
- EX. FENCE

PROFILE 1–1



EXISTING CENTERLINE		190.32	187.86	186.36	185.48	EXISTING CENTERLINE
PROPOSED CENTERLINE		189.81	187.85	187.19	187.15 / 187.14	PROPOSED CENTERLINE
STATION	0+000	0+020	0+040	0+060	0+080 / 0+082	STATION

10 0m 10 20 30

SCALE: HOR. 1:400
VERT 1:40

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5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. DO NOT SCALE DRAWINGS.

TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town

SINCE 1858 A PLACE TO LIVE WORK & PLAY
COLLINGWOOD

No.	ISSUE	DATE: YYYY/MM/DD
0	ISSUED FOR SECOND SUBMISSION	2025/XX/XX
2	ISSUED FOR THIRD SUBMISSION	2026/05/29
3	ISSUED FOR FOURTH SUBMISSION	2026/08/28

ENGINEER

LICENSED PROFESSIONAL ENGINEER
J.T. KERSCHBAUMER
100532793
PROVINCE OF ONTARIO
Aug 28, 2026

ENGINEER

LICENSED PROFESSIONAL ENGINEER
A.MYSLIWIEC
100565278
August 28, 2026
PROVINCE OF ONTARIO

Project

555 TENTH LINE
TOWN OF COLLINGWOOD

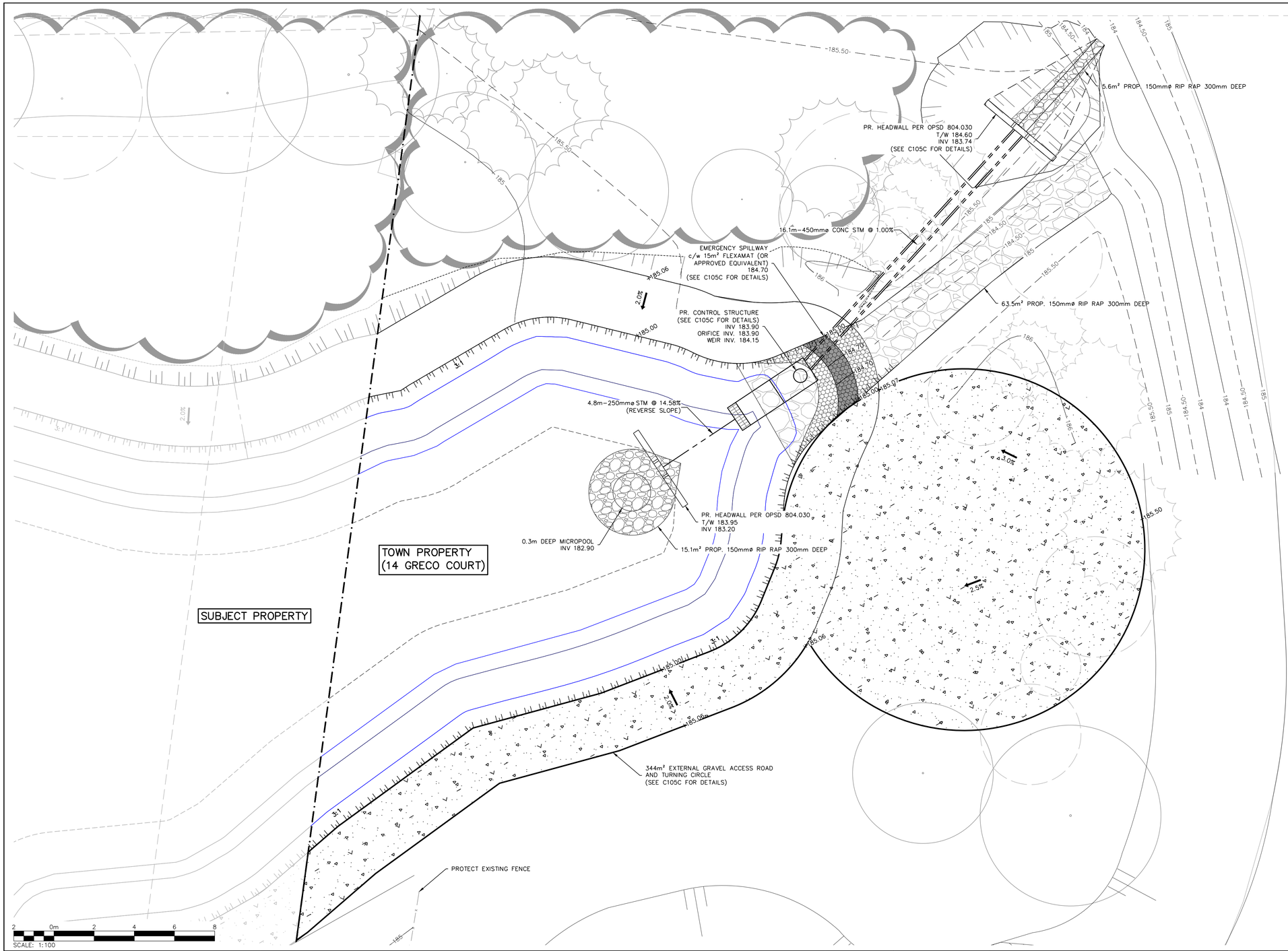
Drawing

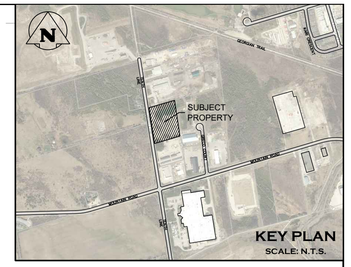
WATER SERVICE CONNECTION PROFILE

Town Stamp

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By	Design By	Project
D.G.	D.G.	2577–6904
Check By	Check By	Drawing
J.K.	C.S.	C106





LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING ELEVATION
- EXISTING SLOPE
- PROPOSED ELEVATION
- MATCH EXISTING ELEVATION
- PROPOSED SLOPE
- PROPOSED SWALE
- 3:1 SLOPE

POND INFORMATION		
POND INFORMATION	ELEVATION	STORAGE
BOTTOM OF POND	183.20m – 183.60m	0m³
PERMANENT POOL	183.90m	1018m³ (DEAD)
EXTENDED DETENTION	184.15m	558m³ (ACTIVE)
100YR HIGH WATER LEVEL	184.70m	2047m³ (ACTIVE)
TOP OF BERM	185.00m	2989m³ (ACTIVE)

PROPOSED EXTERNAL INFRASTRUCTURE		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
250mmø PVC SDR–35 REVERSE SLOPE PIPE	4.8	m
450mmø CONC OUTLET PIPE	16.1	m
CONCRETE HEADWALL PER OPSD 804.030	2	ea.
EMERGENCY SPILLWAY c/w FLEXAMAT (OR APPROVED EQUIVALENT)	15	m²
GRAVEL ACCESS ROAD	344	m²
150mm GRANULAR 'A'	51.6	m³
300mm GRANULAR 'B'	103.2	m³
SUPPLY & INSTALL STORMWATER MANAGEMENT FACILITY CONTROL STRUCTURE PRECAST 3300x1800mm CONCRETE CASING c/w SAFETY STEPS PER OPSD 405.010, BILCO TYPE SM–2 HATCH, & 10M REBAR AT END WALLS	1	ea.
300mm GRANULAR 'A'	12	m³
100mmø STAINLESS STEEL ORIFICE PLATE	1	ea.
CAST–IN–PLACE BAFFLE WALL c/w WEIR PLATE	1	ea.
150mmø RIP RAP 300mm DEEP	84.2	m²

NOTE: REFER TO DWG C102 FOR TEMPORARY ESC MEASURES

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TEMPORARY BENCHMARKS

TBM#1–NAIL IN HYDRO POLE, 190.77

NOTE: ELEVATION DATA DERIVED USING NAD83(CSRS), UTM ZONE 17N

Town: COLLINGWOOD (SINCE 1858 A PLACE TO LIVE, WORK & PLAY)

No.	ISSUE	DATE: YYYY/MM/DD
0	ISSUED FOR FIRST SUBMISSION	2025/06/24
1	ISSUED FOR SECOND SUBMISSION	2025/12/11
2	ISSUED FOR THIRD SUBMISSION	2026/05/29
3	ISSUED FOR FOURTH SUBMISSION	2026/08/28

ENGINEER: LICENSED PROFESSIONAL ENGINEER — I.T. KERSCHBAUMER — 100532793 — AUG 28, 2026 — PROVINCE OF ONTARIO

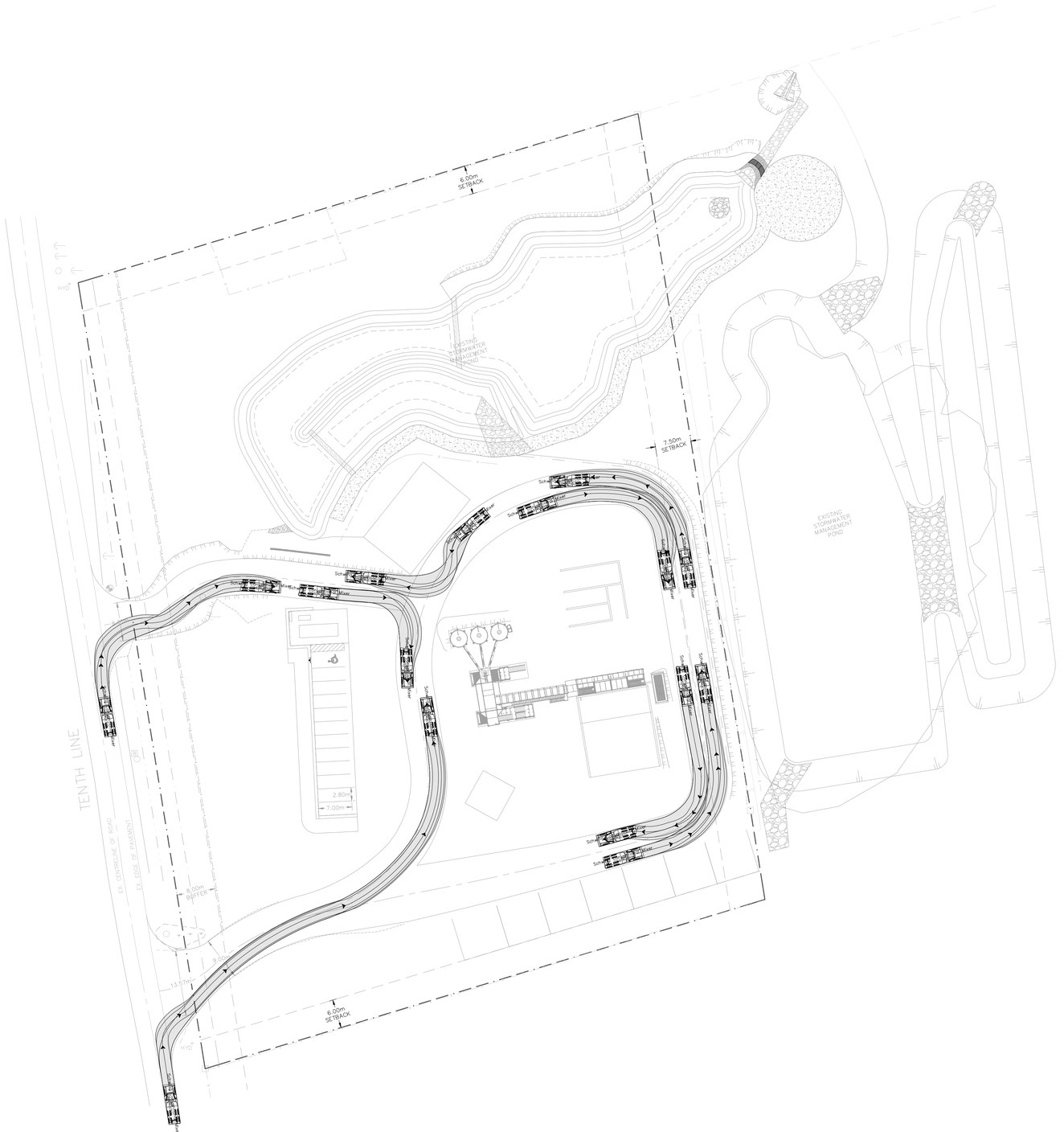
ENGINEER: LICENSED PROFESSIONAL ENGINEER — A.MYSLIWIEC — 100565278 — August 28, 2026 — PROVINCE OF ONTARIO

Project: 555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing: ENCROACHMENT PLAN

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By	D.G.	Design By	D.G.	Project	2577–6904
Check By	J.K.	Check By	C.S.	Drawing	C107

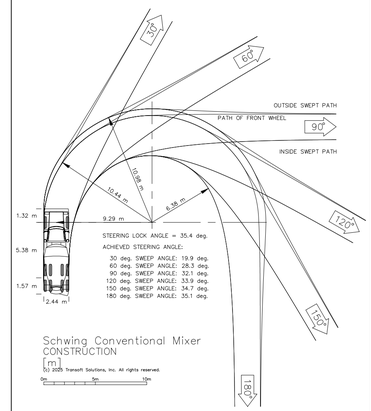


10 0m 10 20 30 40
SCALE: 1:500

N

FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION

SWEEP PATH



STEERING LOCK ANGLE = 35.4 deg.

ACHIEVED STEERING ANGLE:

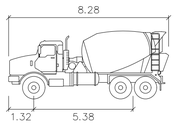
30 deg. SWEEP ANGLE: 19.9 deg.
60 deg. SWEEP ANGLE: 28.3 deg.
90 deg. SWEEP ANGLE: 32.1 deg.
120 deg. SWEEP ANGLE: 33.9 deg.
150 deg. SWEEP ANGLE: 34.7 deg.
180 deg. SWEEP ANGLE: 35.1 deg.

Schwing Conventional Mixer
CONSTRUCTION
(m)

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0m 5m 10m

VEHICLE PROFILE



Schwing Conventional Mixer

meters

Width	: 2.44
Track	: 2.44
Lock to Lock Time	: 6.0
Steering Angle	: 35.4

No.	ISSUE	DATE: MM/DD/YYYY
1	ISSUED FOR INTERNAL REVIEW	08/28/2025
2	ISSUED FOR INTERNAL REVIEW	12/04/2025

Project

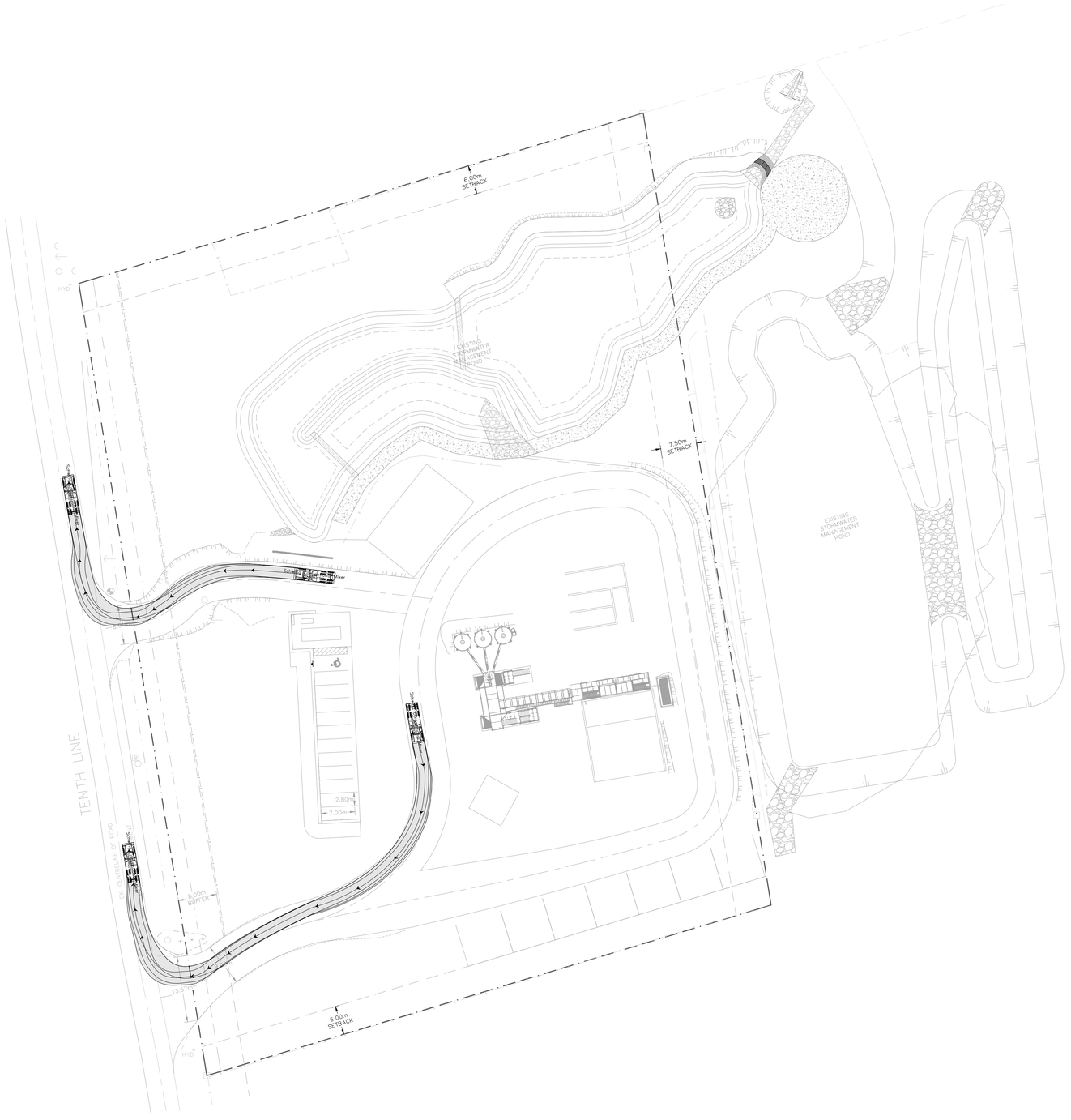
555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing

VEHICLE MANUEVERING
RIGHT-IN TURNS

CROZIER
CONSULTING ENGINEERS

Drawn By	Design By	Project
R.L./I.M.		2577-6904
Check By	Check By	Drawing
K.H.		T300



10 0m 10 20 30 40

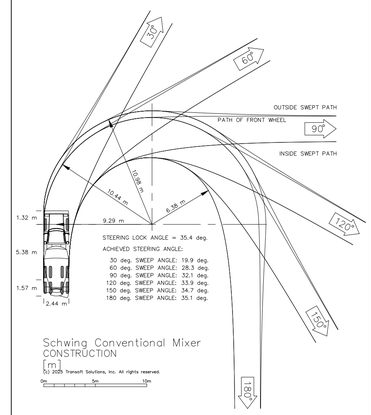
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FOR REVIEW

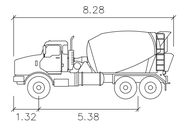
NOT TO BE USED FOR CONSTRUCTION

SWEEP PATH



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VEHICLE PROFILE



Schwing Conventional Mixer

meters

Width	: 2.44
Track	: 2.44
Lock to Lock Time	: 6.0
Steering Angle	: 35.4

No.	ISSUE	DATE: MM/DD/YYYY
1	ISSUED FOR INTERNAL REVIEW	08/28/2025
2	ISSUED FOR INTERNAL REVIEW	12/04/2025

Project

555 TENTH LINE
TOWN OF COLLINGWOOD

Drawing

VEHICLE MANUEVERING
RIGHT-OUT TURNS

CROZIER
CONSULTING ENGINEERS

Drawn By: R.L./I.M.	Design By:	Project:	2577-6904
Check By: K.H.	Check By:	Drawing:	T301