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TBM#1 - CUT CROSS EAST OF THE GRAVEL DRIVEWAY ENTRANCE TO THE 1.5 STORY FRAME DWELLING, HAVING AN ELEVATION OF 182.45m.

TBM#2 - CUT CROSS AT THE BELL WH. BETWEEN TWO ASPHALT DRIVEWAYS NORTH EAST OF THE SUBJECT LANDS, HAVING AN ELEVATION OF 180.12m.

TBM#3 - TOP OF SIB AT THE SOUTH EAST CORNER OF THE SUBJECT LANDS HAVING AN ELEVATION OF 179.75.

TOPOGRAPHIC AND LEGAL SURVEY COMPLETED BY VAN HARTEN SURVEYING INC. ON AUGUST 24, 2019.

| No. | ISSUE                                 | DATE: MM/DD/YYYY |
|-----|---------------------------------------|------------------|
| 0   | ISSUED FOR SPA                        | 07/17/2020       |
| 1   | ISSUED FOR 2ND SUBMISSION SPA         | 03/09/2021       |
| 2   | ISSUED FOR APARTMENT BUILDING PERMIT  | 04/23/2021       |
| 3   | ISSUED FOR SHARED SERVICING AGREEMENT | 08/04/2021       |
| 4   | ISSUED FOR 3RD SUBMISSION SPA         | 09/03/2021       |

Project: RESIDENCES AT SILVER CREEK

Drawing: GENERAL SITE SERVICING PLAN

Engineer: D.M. TONE (100115132) - LICENSED PROFESSIONAL ENGINEER, PROVINCE OF ONTARIO

Engineer: R.A. ALEXANDER (100213093) - LICENSED PROFESSIONAL ENGINEER, PROVINCE OF ONTARIO

Project: RESIDENCES AT SILVER CREEK

Drawing: GENERAL SITE SERVICING PLAN

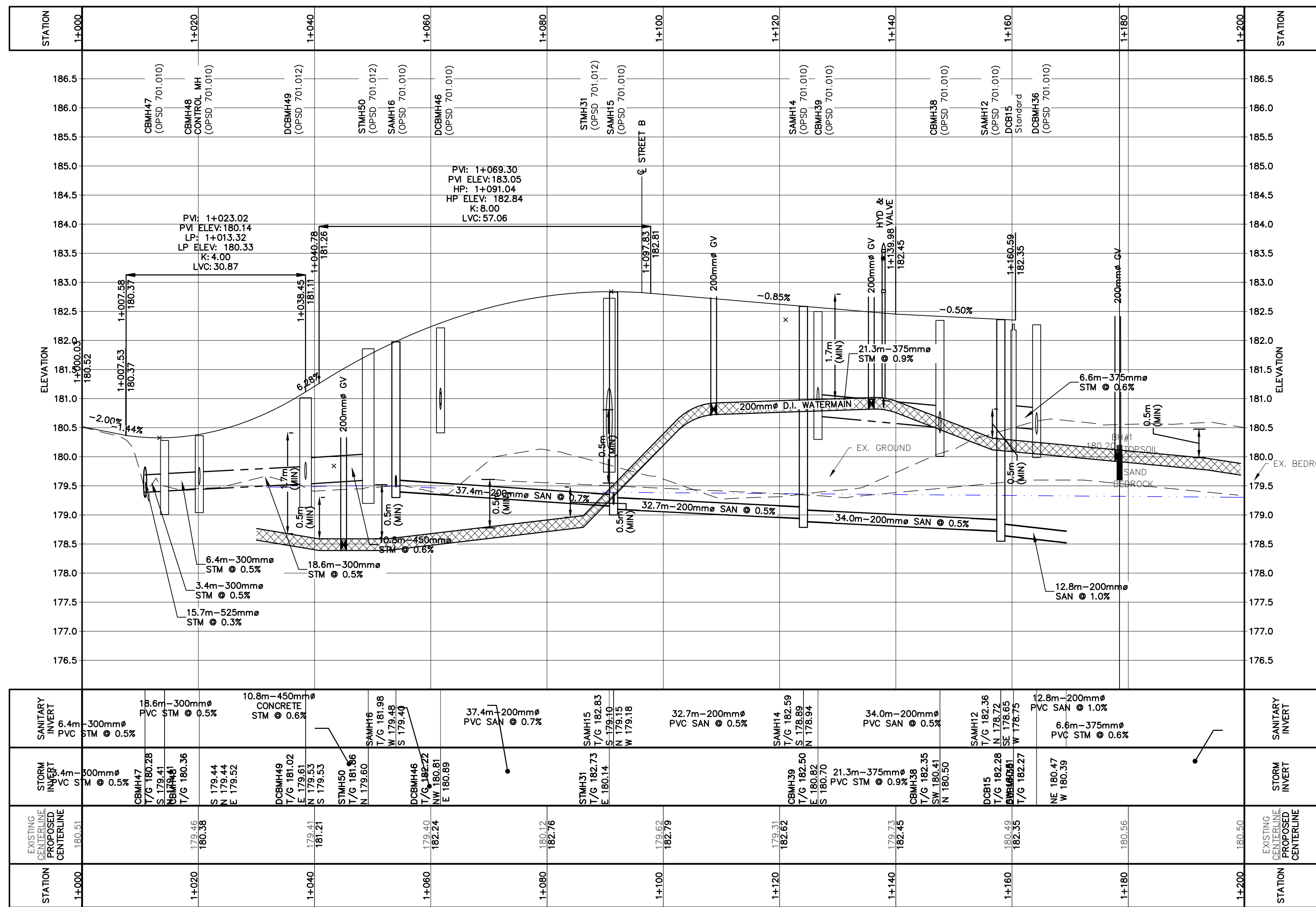
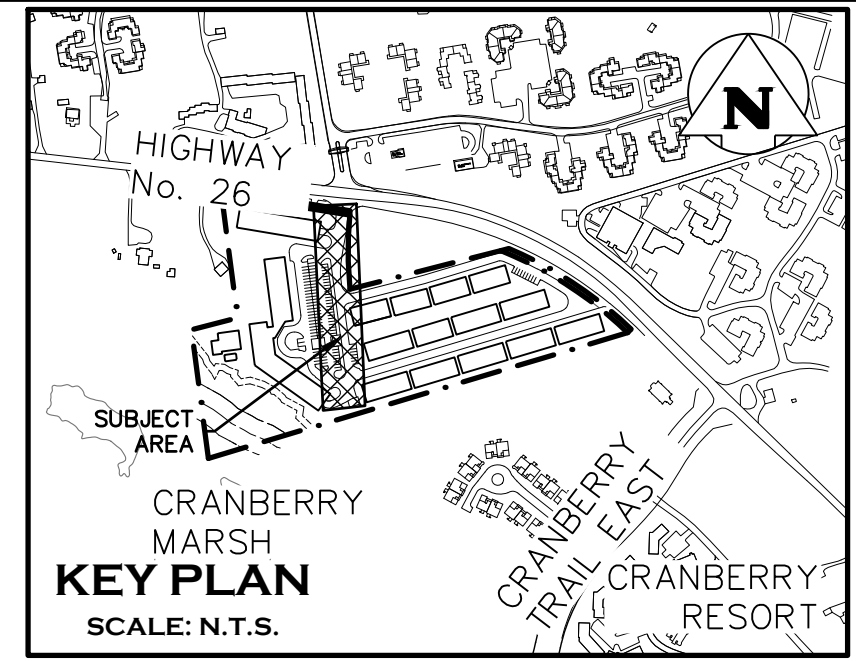
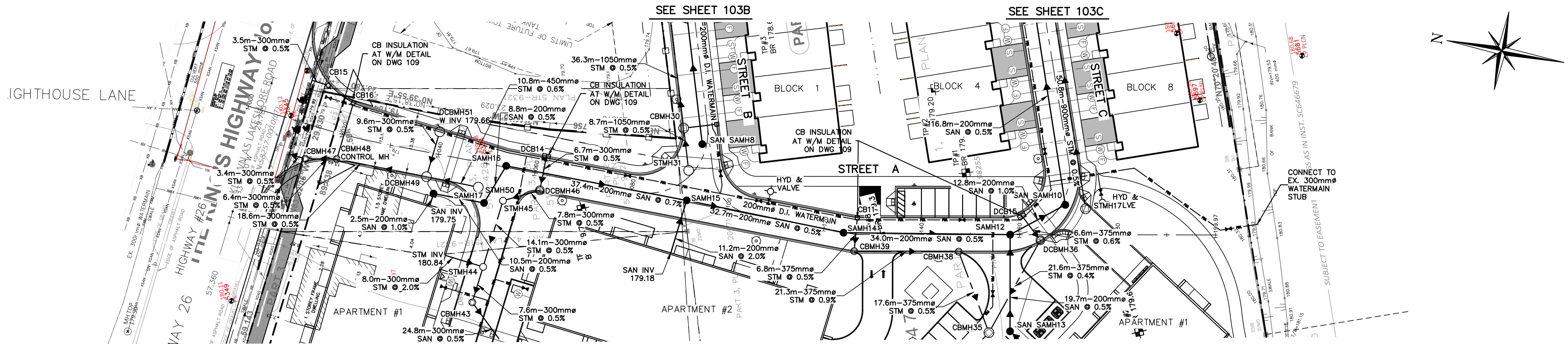
Scale: 1:500

Drawn By: L.W. Design By: J.O. Project: 1790-5382

Check By: R.A. Check By: D.T. Scale: 1:500 Drawing: 102

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREDGE BUILDING, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
WWW.CROZIER.CA  
INFO@CROZIER.CA



| STATION | EXISTING CENTERLINE | PROPOSED CENTERLINE | STORM INVERT  | SANITARY INVERT                      |
|---------|---------------------|---------------------|---|--------------------------------------|
| 1+000   | 180.51              | 180.51              | 179.44<br>CBMH47<br>T/G 180.28<br>S 179.41<br>N 179.41<br>E 179.54  | 180.51<br>PVC<br>STM 0.5%            |
| 1+020   | 179.46<br>180.38    | 179.46<br>180.38    | 179.44<br>CBMH48<br>T/G 180.36<br>S 179.44<br>N 179.54<br>E 179.54  | 18.6m-300mm#<br>PVC STM 0.5%         |
| 1+040   | 179.41<br>181.21    | 179.41<br>181.21    | 179.44<br>DCBMH49<br>T/G 181.02<br>S 179.53<br>N 179.53<br>E 180.81 | 10.8m-450mm#<br>CONCRETE<br>STM 0.6% |
| 1+060   | 179.40<br>182.24    | 179.40<br>182.24    | 179.44<br>STMH50<br>T/G 181.86<br>S 179.50<br>N 179.49<br>E 179.50  | 37.4m-200mm#<br>PVC SAN 0.7%         |
| 1+080   | 180.12<br>182.76    | 180.12<br>182.76    | 180.14<br>SAMH15<br>T/G 182.83<br>S 179.15<br>N 179.15<br>E 180.89  | 32.7m-200mm#<br>PVC SAN 0.5%         |
| 1+100   | 179.62<br>182.79    | 179.62<br>182.79    | 180.70<br>CBMH39<br>T/G 182.59<br>S 178.89<br>N 178.84<br>E 180.70  | 34.0m-200mm#<br>PVC SAN 0.5%         |
| 1+120   | 179.31<br>182.82    | 179.31<br>182.82    | 180.41<br>SAMH12<br>T/G 182.72<br>S 178.75<br>N 178.75<br>E 182.27  | 12.8m-200mm#<br>PVC SAN 1.0%         |
| 1+140   | 179.73<br>182.45    | 179.73<br>182.45    | 180.47<br>CBMH38<br>T/G 182.35<br>S 180.41<br>N 180.30<br>E 180.47  | 6.6m-375mm#<br>PVC STM 0.6%          |
| 1+160   | 180.43<br>182.35    | 180.43<br>182.35    | 180.47<br>DCB15<br>T/G 182.27<br>S 178.75<br>N 178.75<br>E 182.27   | 12.8m-200mm#<br>PVC SAN 1.0%         |
| 1+180   | 180.56              | 180.56              | 180.47<br>NE 180.47<br>W 180.39                                     | 6.6m-375mm#<br>PVC STM 0.6%          |
| 1+200   | 180.50              | 180.50              |   | SANITARY INVERT                      |

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Engineer

Engineer

Project: RESIDENCES AT SILVER CREEK

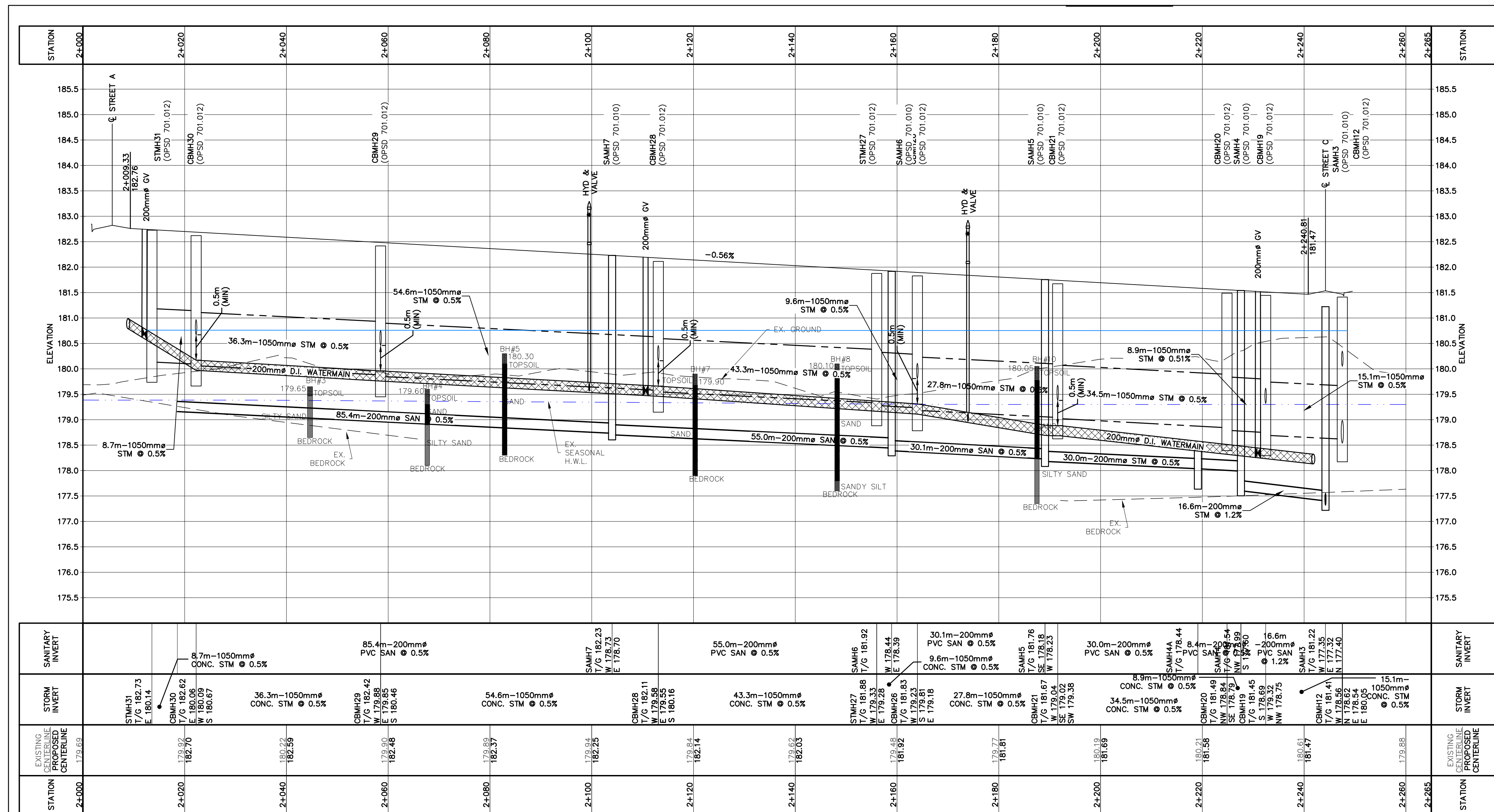
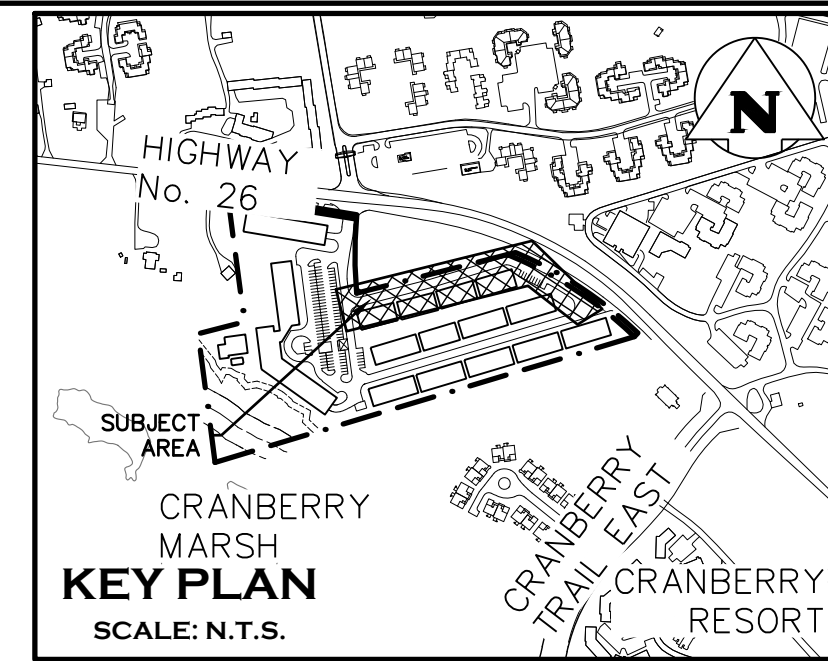
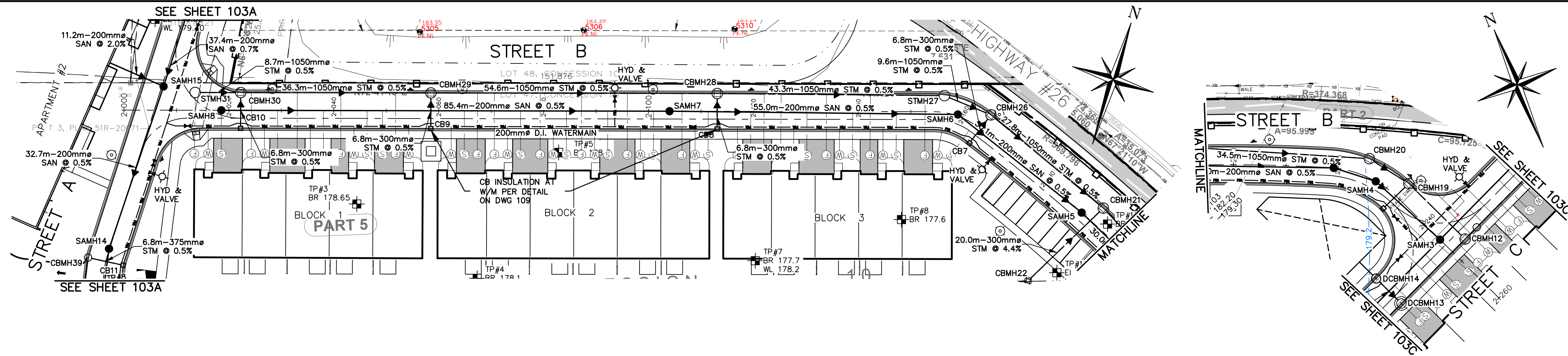
Drawing: STREET A PLAN & PROFILE

Town Approval

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
WWW.CFCROZIER.CA  
INFO@CFCROZIER.CA

Drawn By: L.W. Design By: J.O. Project: 1790-5382

Check By: R.A. Check By: D.T. Scale: H=1:500 V=1:50 Drawing: 103A



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Engineer

**D. M. TONE**  
100115132  
PROVINCE OF ONTARIO

Engineer

**R.A. ALEXANDER**  
100213093  
Sept 3<sup>rd</sup> 2021  
PROVINCE OF ONTARIO

Project

**RESIDENCES AT SILVER CREEK**

Drawing

**STREET B  
PLAN & PROFILE**

Town Approval

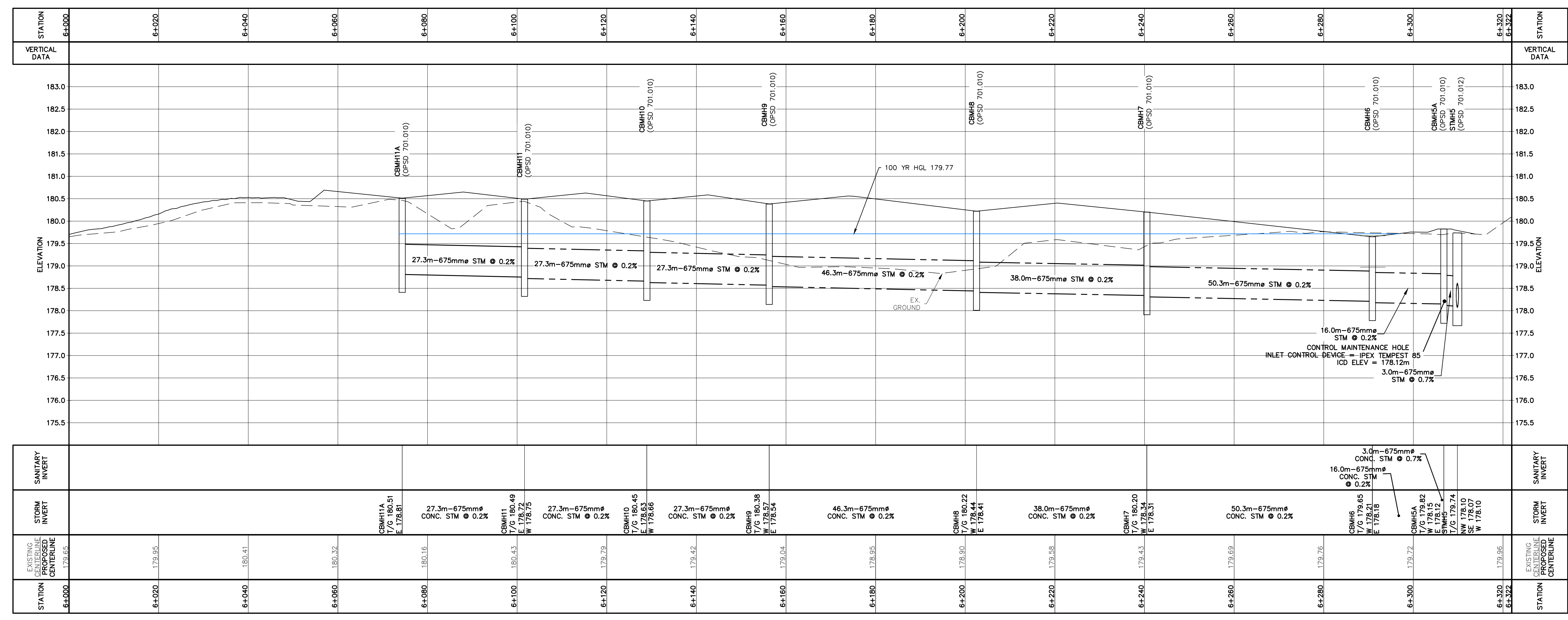
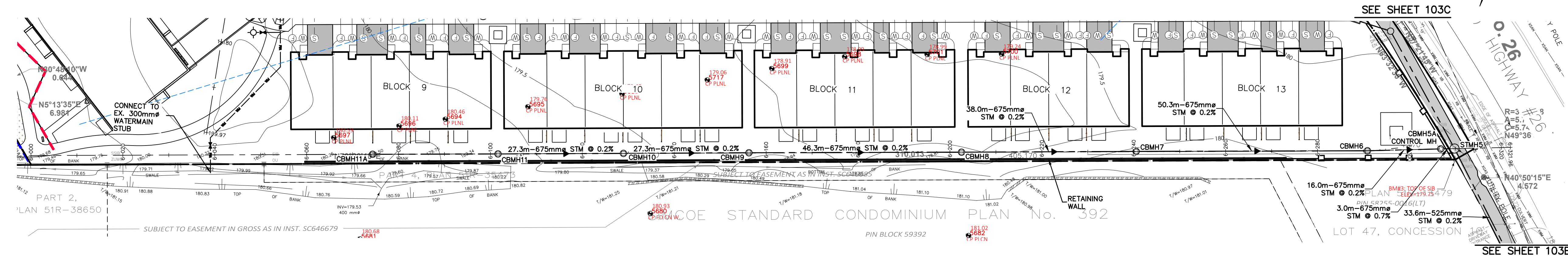
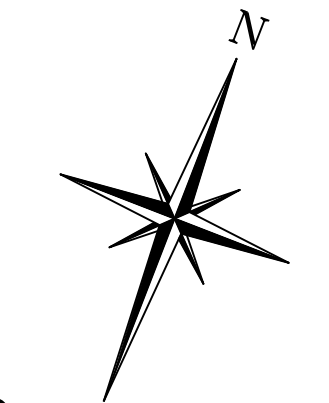
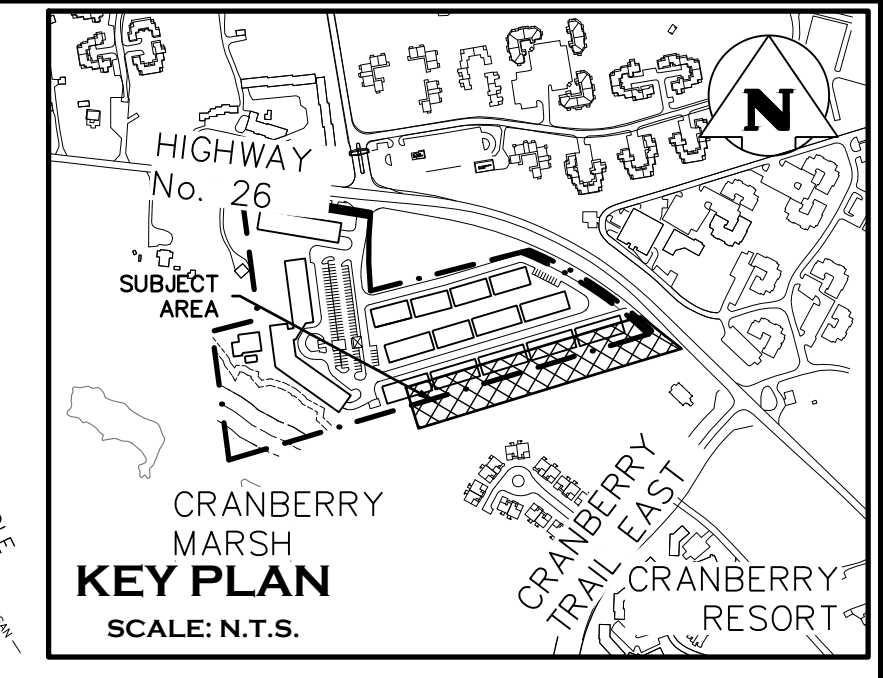
**CROZIER CONSULTING ENGINEERS**

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
WWW.CROZIER.CA  
INFO@CROZIER.CA

Drawn By: L.W. Design By: J.O. Project: **1790-5382**

Check By: R.A. Check By: D.T. Scale: H=1:500 V=1:50 Drawing: **103B**





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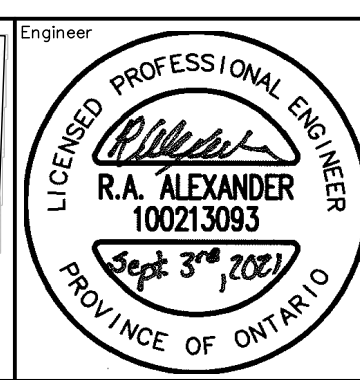
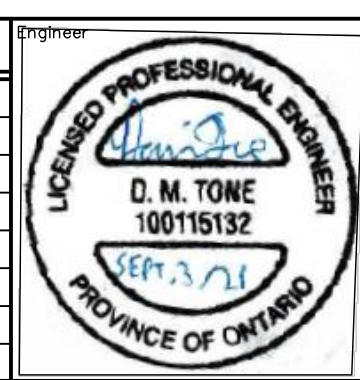
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Project: RESIDENCES AT SILVER CREEK

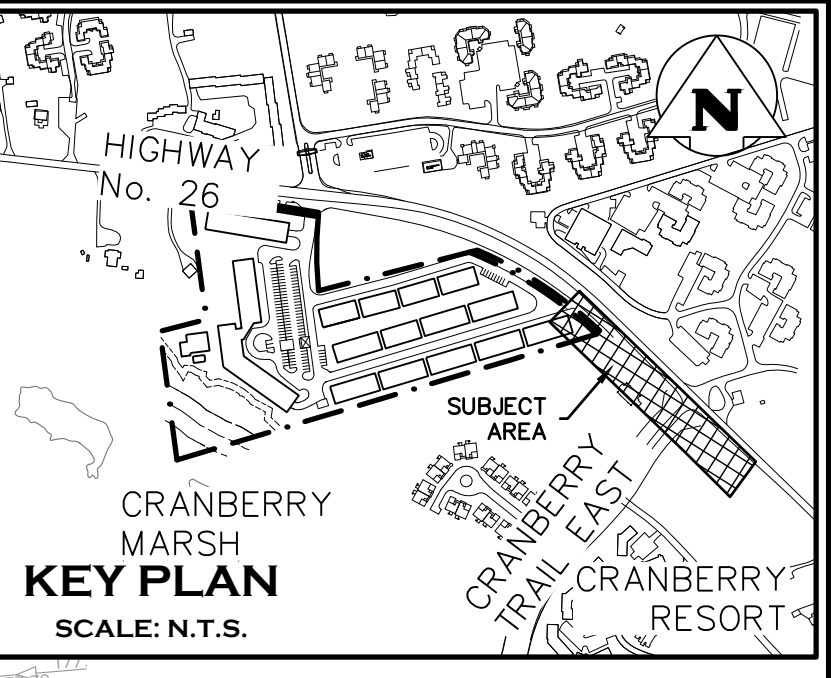
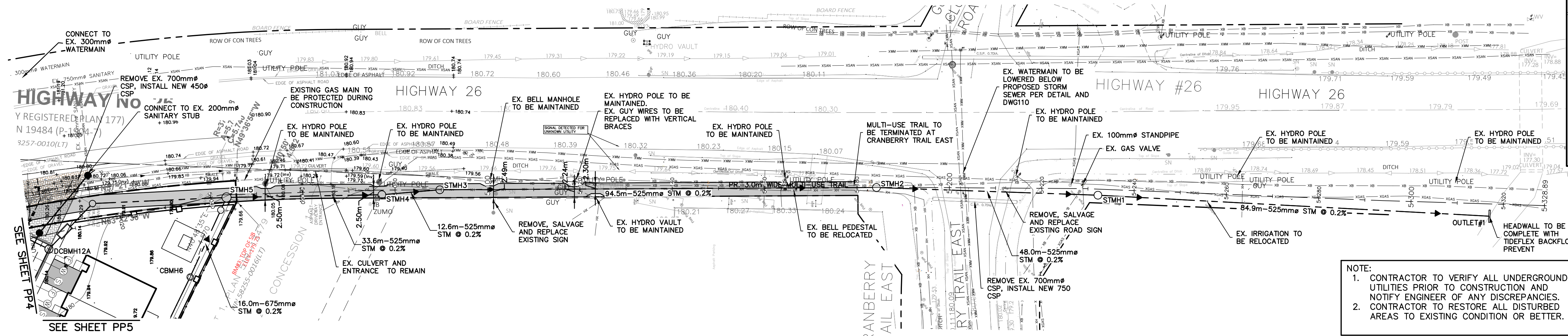
Drawing: SOUTH PROPERTY LIMIT STORM PLAN & PROFILE

Town Approval: [Blank]

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
WWW.CFCROZIER.CA  
INFO@CFCROZIER.CA

Drawn By: L.W. Design By: J.O. Project: 1790-5382

Check By: R.A. Check By: D.T. Scale: H=1:500 V=1:50 Drawing: 103D



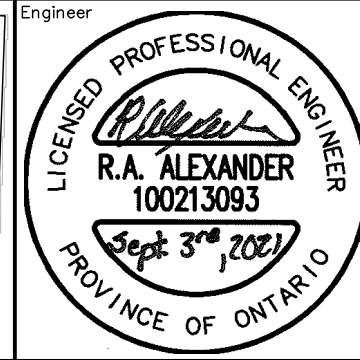
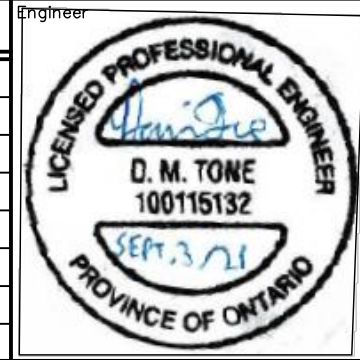
NOTE:  
 1. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.  
 2. CONTRACTOR TO RESTORE ALL DISTURBED AREAS TO EXISTING CONDITION OR BETTER.

| STATION           | 6+000 | 6+020 | 6+040 | 6+060 | 6+080 | 6+100 | 6+120 | 6+140 | 6+160 | 6+180 | 6+200 | 6+220 | 6+240 | 6+260 | 6+280 | 6+300 | 6+320 | STATION           |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 184.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 184.0             |
| 183.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 183.0             |
| 182.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 182.0             |
| 181.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 181.0             |
| 180.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 180.0             |
| 179.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 179.0             |
| 178.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 178.0             |
| 177.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 177.0             |
| 176.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 176.0             |
| 175.0             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 175.0             |
| INVERT STORM      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | INVERT STORM      |
| INVERT SANITARY   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | INVERT SANITARY   |
| STATION ELEVATION |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | STATION ELEVATION |

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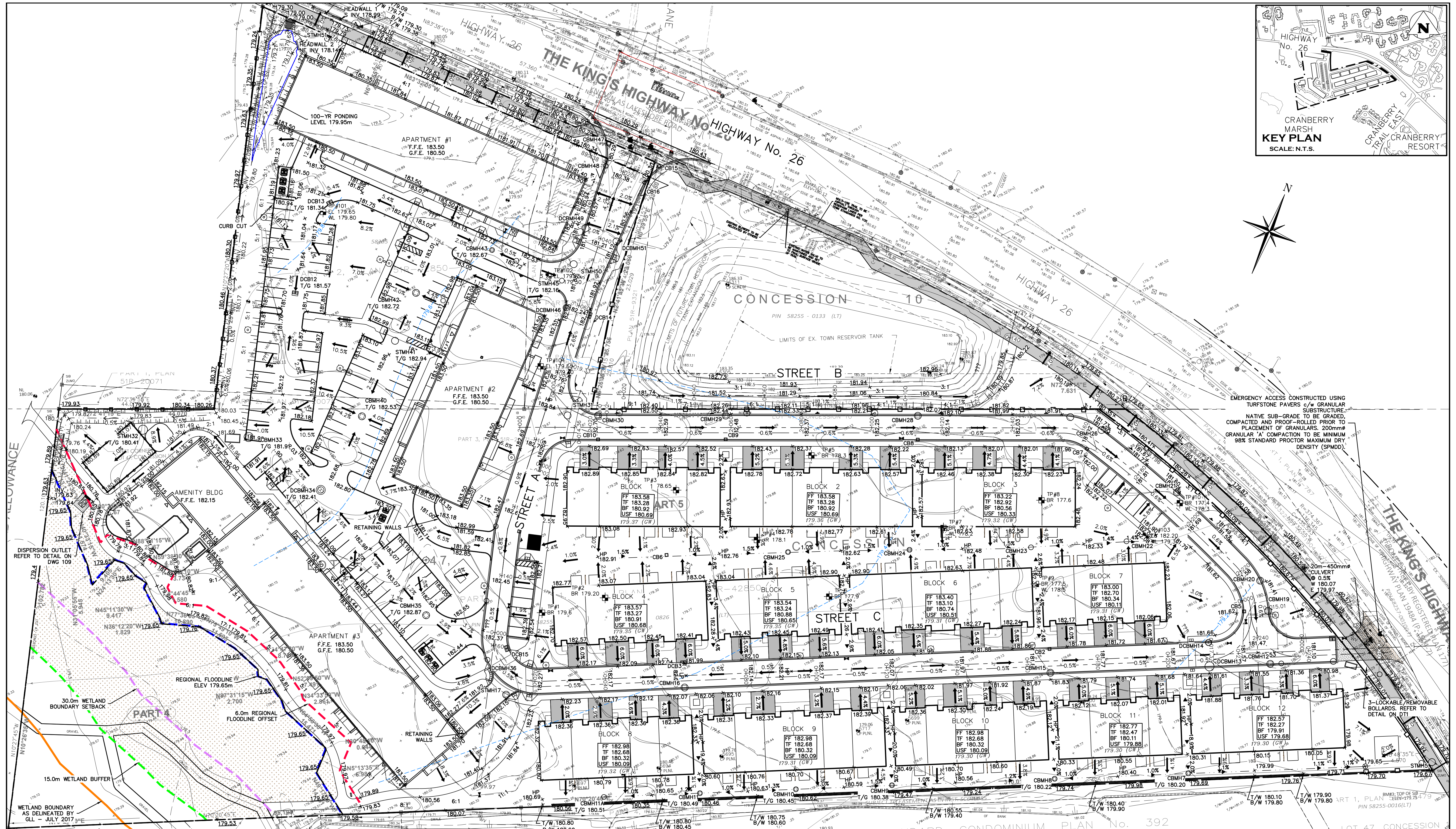


Project: RESIDENCES AT SILVER CREEK  
 Drawing: EXTERNAL STORM OUTLET PLAN & PROFILE

Town Approval: \_\_\_\_\_  
 Drawing Scale: H=1:500, V=1:50

**CROZIER CONSULTING ENGINEERS**  
 THE HARBOUREdge BUILDING, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
 705.446.3510 T 705.446.3520 F  
 WWW.CROZIER.CA INFO@CROZIER.CA

Drawn By: L.W. Design By: J.O. Project: 1790-5382  
 Check By: R.A. Check By: D.T. Scale: H=1:500, V=1:50 Drawing: 103E



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| 4   | ISSUED FOR 3RD SUBMISSION SPA         | 09/03/2021       |

**D. M. TONE**  
10011532  
PROVINCE OF ONTARIO

**R.A. ALEXANDER**  
100213093  
PROVINCE OF ONTARIO

Project: **RESIDENCES AT SILVER CREEK**

Drawing: **OVERALL SITE GRADING PLAN**

Scale: 1:500

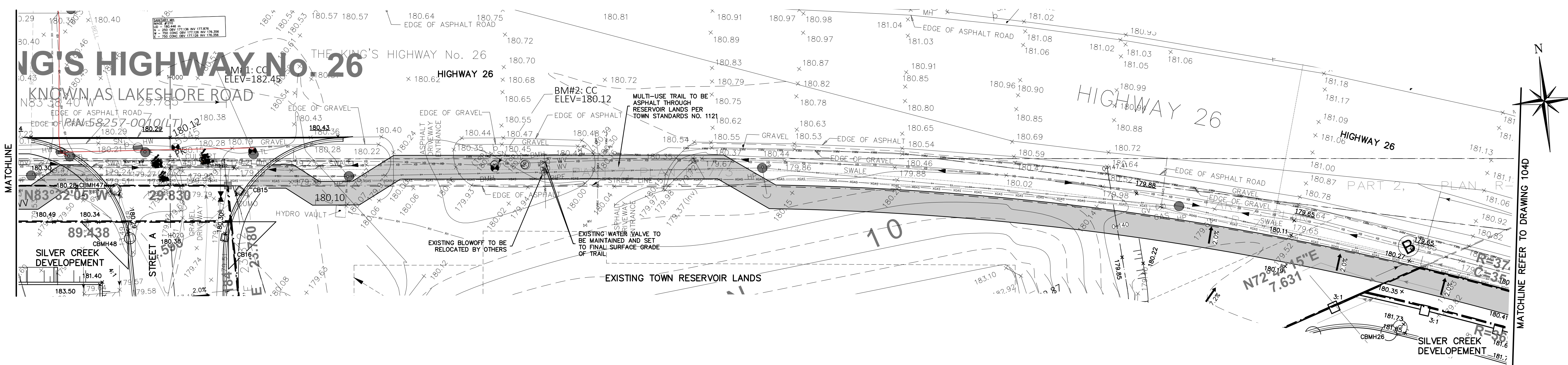
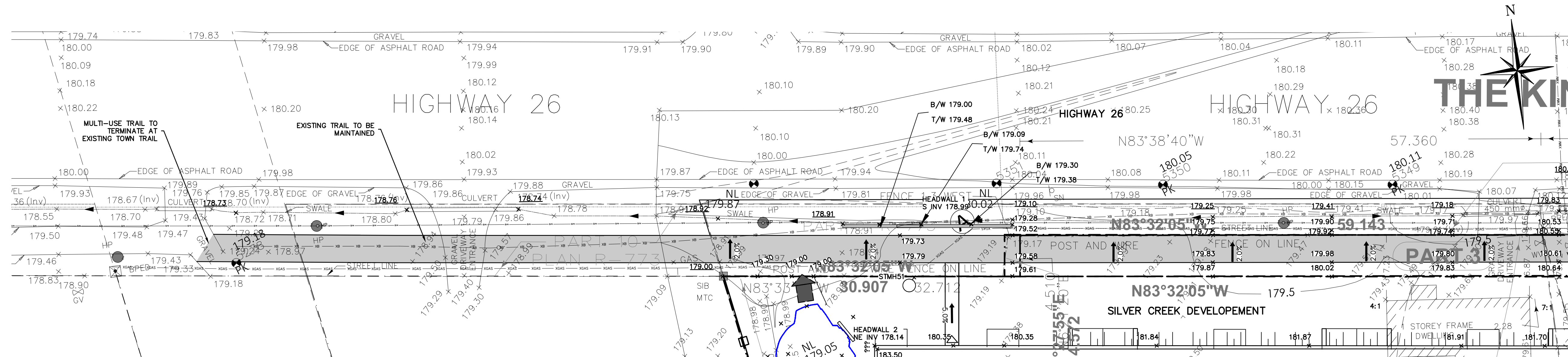
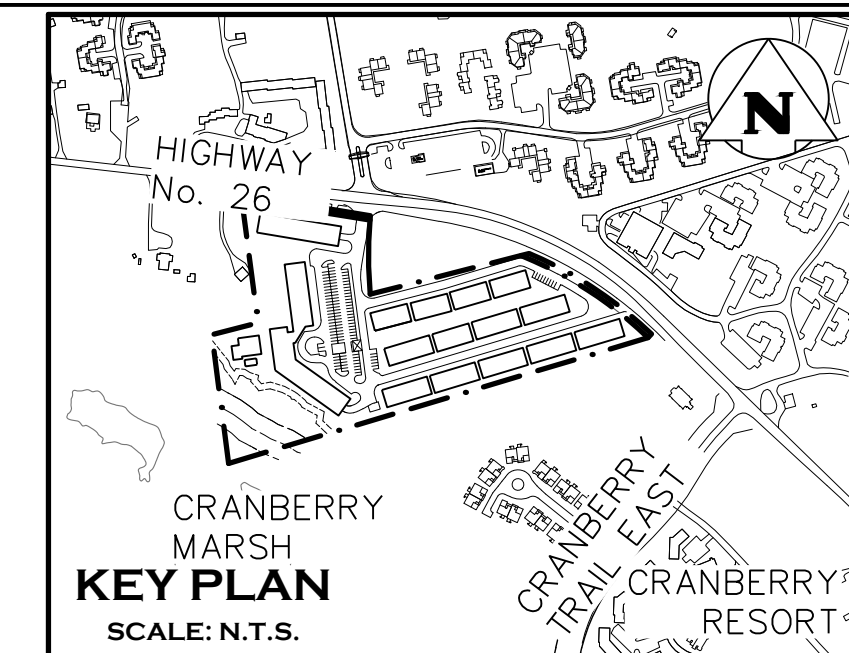
Project No: **1790-5382**

Drawing No: **104A**

**CROZIER**  
CONSULTING ENGINEERS

THE HARBOUREDD BUILDING,  
40 HURON STREET, SUITE 301,  
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|                |                 |                            |
|----------------|-----------------|----------------------------|
| Drawn By: L.W. | Design By: J.O. | Project: 1790-5382         |
| Check By: R.A. | Check By: D.T.  | Scale: 1:500 Drawing: 104A |



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TBM#1 - CUT CROSS EAST OF THE GRAVEL DRIVEWAY ENTRANCE TO THE 1.5 STORY FRAME DWELLING, HAVING AN ELEVATION OF 182.45m.

TBM#2 - CUT CROSS AT THE BELL MH BETWEEN TWO ASPHALT DRIVEWAYS NORTH EAST OF THE SUBJECT LANDS, HAVING AN ELEVATION OF 180.12m.

TBM#3 - TOP OF SIB AT THE SOUTH EAST CORNER OF THE SUBJECT LANDS HAVING AN ELEVATION OF 179.75.

TOPOGRAPHIC AND LEGAL SURVEY COMPLETED BY VAN HARTEN SURVEYING INC. ON AUGUST 24, 2019.

| No. | ISSUE                                 | DATE: MM/DD/YYYY |
|-----|---------------------------------------|------------------|
| 0   | ISSUED FOR SPA                        | 07/17/2020       |
| 1   | ISSUED FOR 2ND SUBMISSION SPA         | 03/09/2021       |
| 2   | ISSUED FOR APARTMENT BUILDING PERMIT  | 04/23/2021       |
| 3   | ISSUED FOR SHARED SERVICING AGREEMENT | 08/04/2021       |
| 4   | ISSUED FOR 3RD SUBMISSION SPA         | 09/03/2021       |

Engineer

Engineer

Project

**RESIDENCES AT SILVER CREEK**

Drawing

**EXTERNAL TRAIL GRADING PLAN (WEST)**

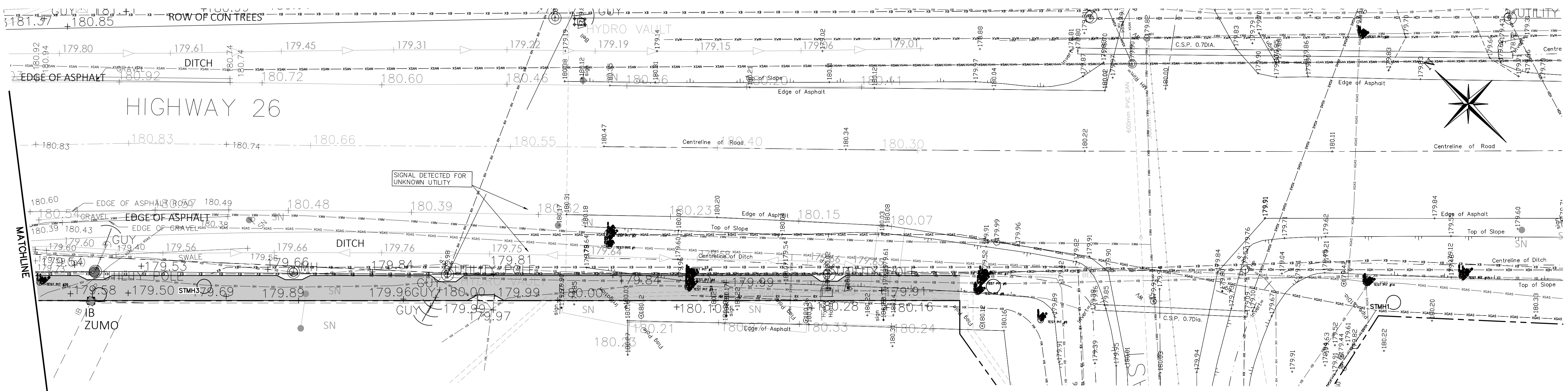
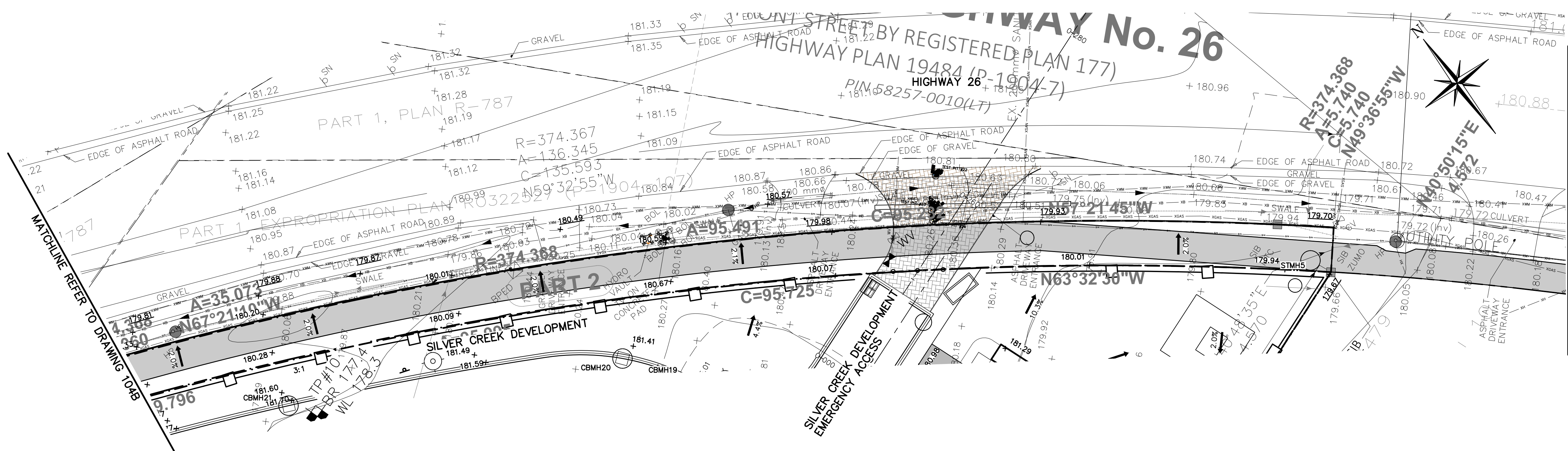
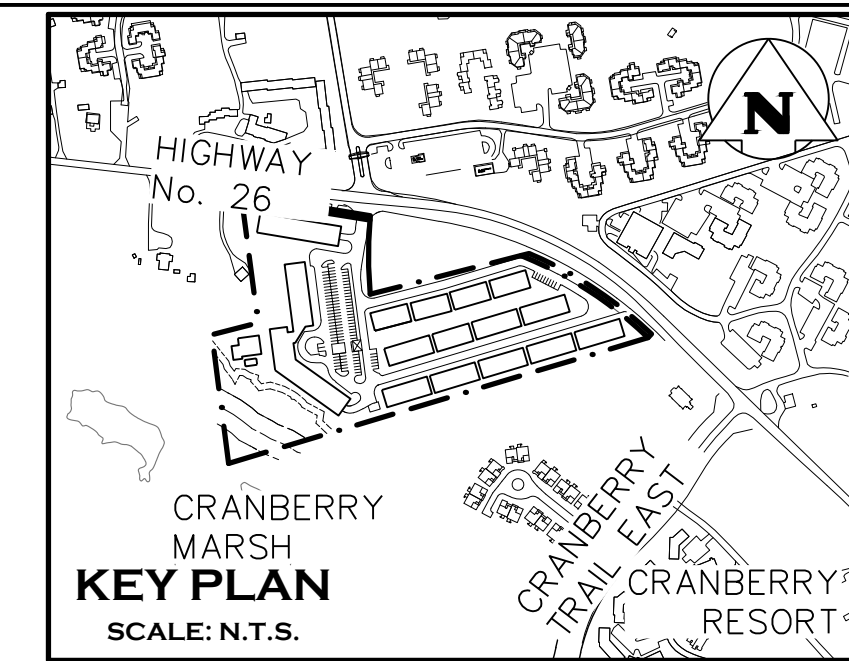
Town Approval

Scale: 1:500

THE HARBOUREDGE BUILDING,  
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Drawn By: L.W. Design By: J.O. Project: **1790-5382**

Check By: R.A. Check By: D.T. Scale: 1:500 Drawing: **104B**



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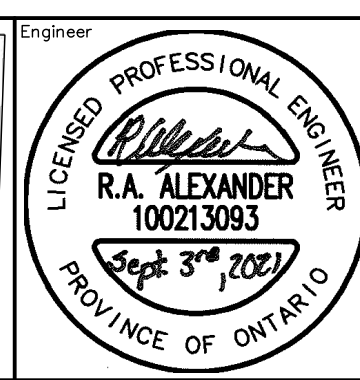
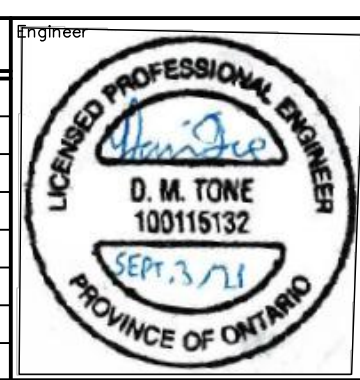
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TOPOGRAPHIC AND LEGAL SURVEY COMPLETED BY VAN HARTEN SURVEYING INC. ON AUGUST 24, 2019.

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Project: RESIDENCES AT SILVER CREEK

Drawing: EXTERNAL TRAIL GRADING PLAN (EAST)

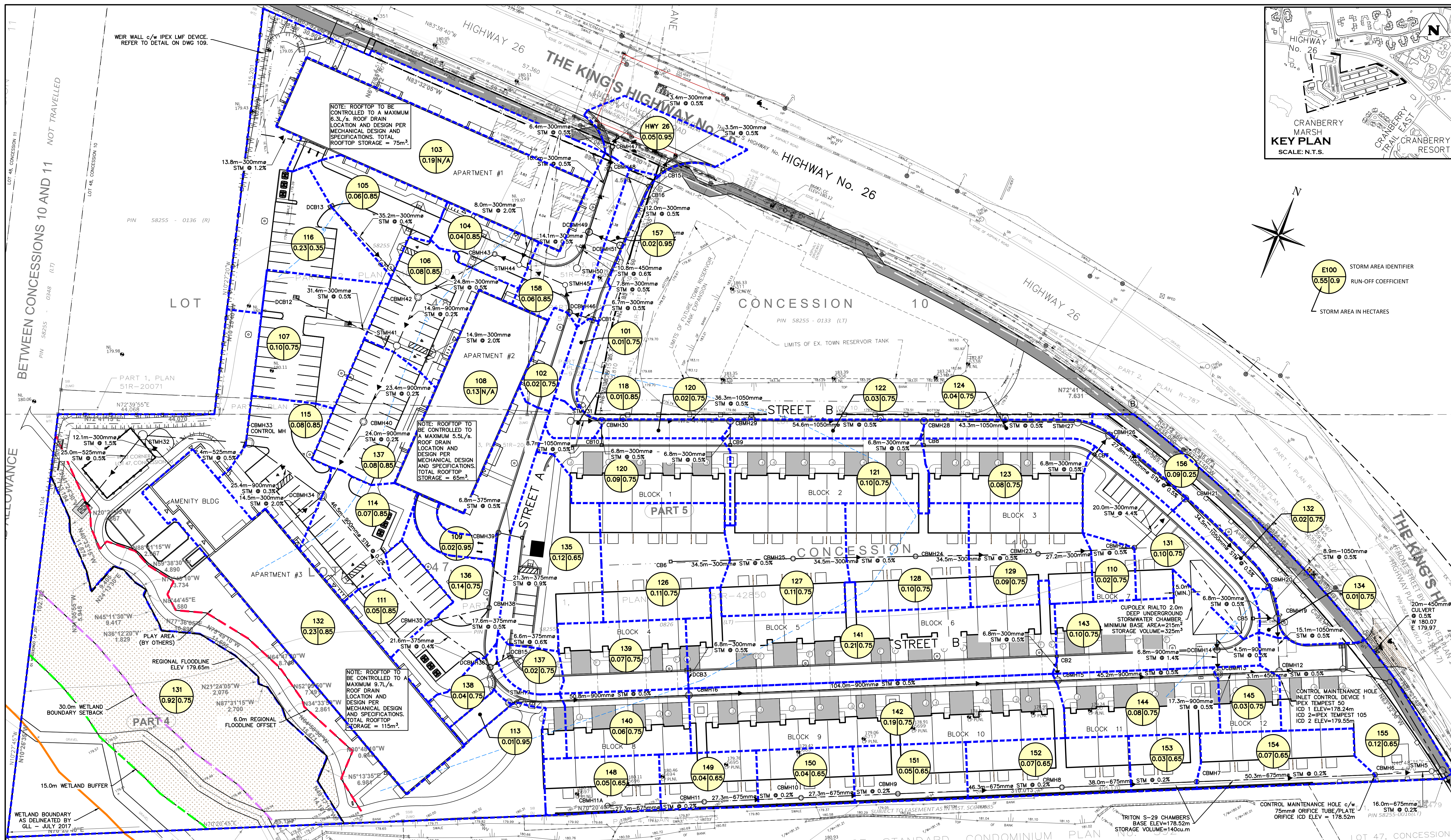
Town Approval:

**CROZIER CONSULTING ENGINEERS**

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Drawn By: L.W. Design By: J.O. Project: 1790-5382

Check By: R.A. Check By: D.T. Scale: 1:500 Drawing: 104C



E100 STORM AREA IDENTIFIER  
 0.55/0.9 RUN-OFF COEFFICIENT  
 STORM AREA IN HECTARES

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Engineer

**D.M. TONE**  
 100115132  
 LICENSED PROFESSIONAL ENGINEER  
 PROVINCE OF ONTARIO

**R.A. ALEXANDER**  
 100213093  
 LICENSED PROFESSIONAL ENGINEER  
 PROVINCE OF ONTARIO

Project: RESIDENCES AT SILVER CREEK

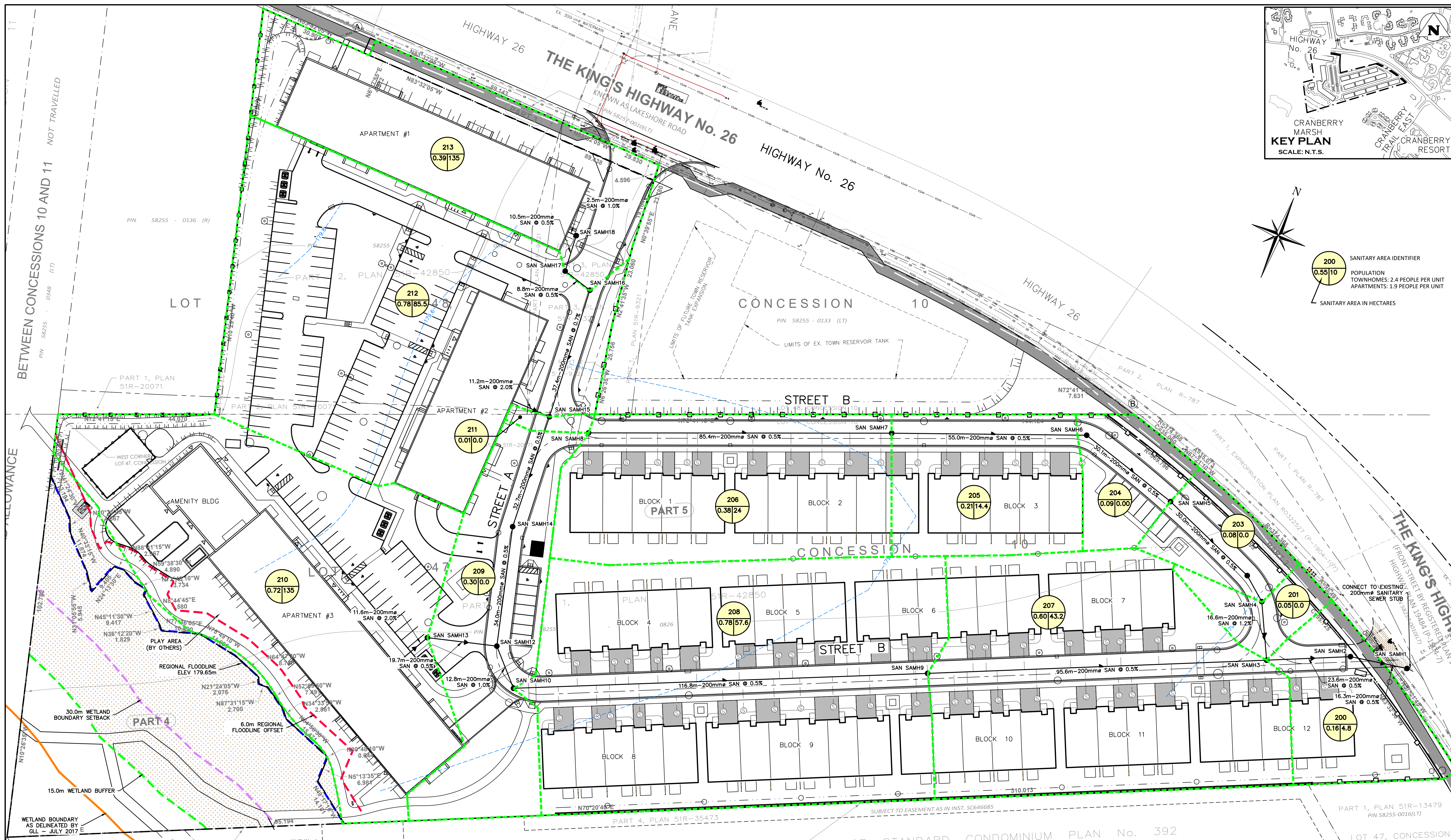
Drawing: STORM AREA DRAINAGE PLAN

Town Approval:

**CROZIER CONSULTING ENGINEERS**

The HarbourEdge Building,  
 40 HURON STREET, SUITE 301,  
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Drawn By: L.W. Design By: J.O. Project: 1790-5382  
 Check By: R.A. Check By: D.T. Scale: 1:500 Drawing: 105



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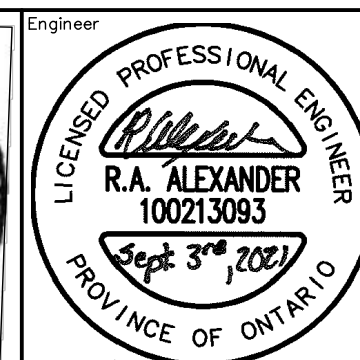
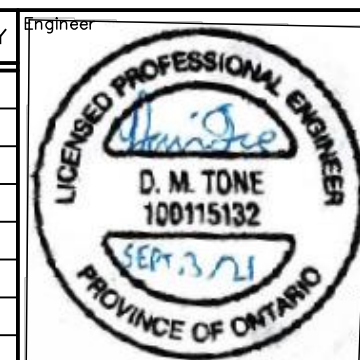
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Project: RESIDENCES AT SILVER CREEK

Drawing: SANITARY AREA PLAN

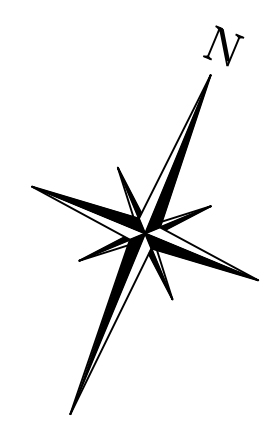
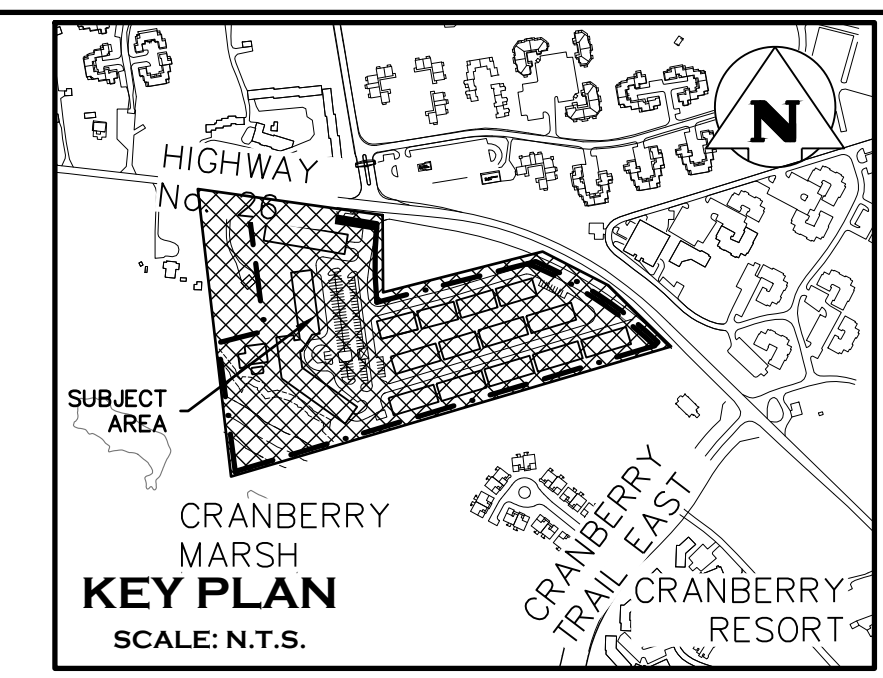
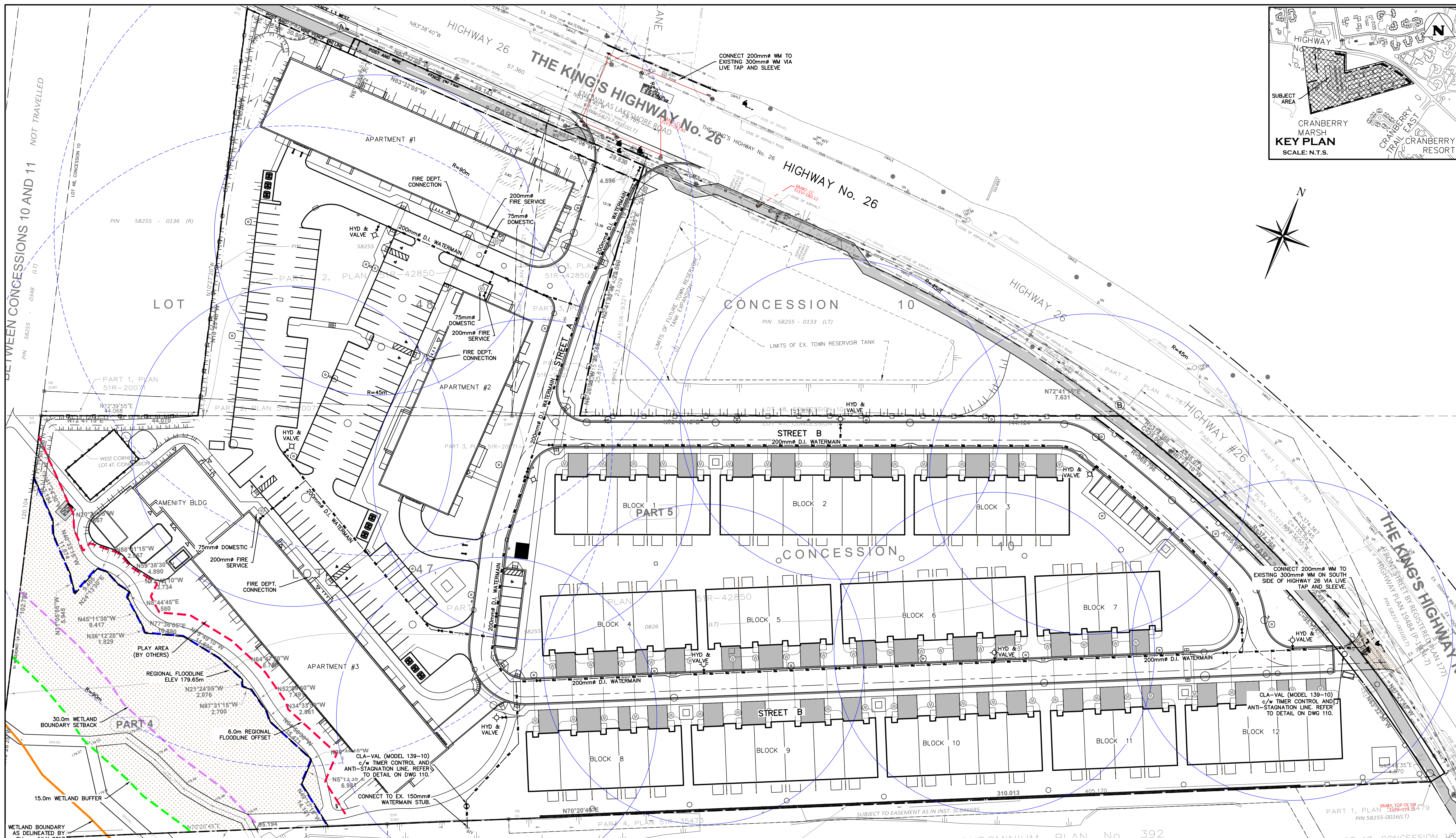
|          |      |           |      |         |           |
|----------|------|-----------|------|---------|-----------|
| Drawn By | L.W. | Design By | J.O. | Project | 1790-5382 |
| Check By | R.A. | Check By  | D.T. | Scale   | 1:500     |

**CROZIER CONSULTING ENGINEERS**

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Scale: 1:500

Drawing: 106



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D. M. TONE  
100115132

R. A. ALEXANDER  
100213093

**RESIDENCES AT SILVER CREEK**

**WATERMAIN & COVERAGE PLAN**

Project: 1790-5382

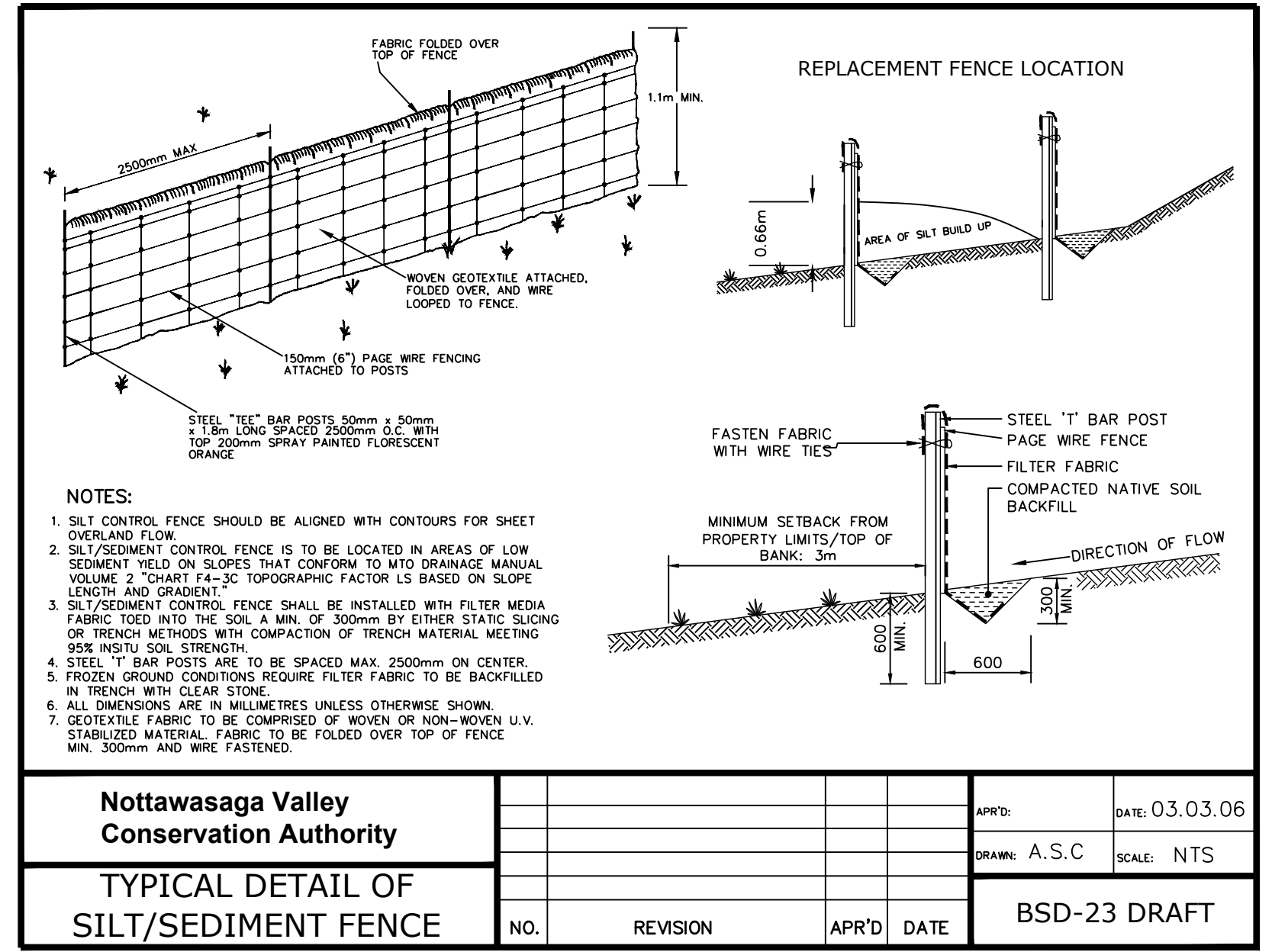
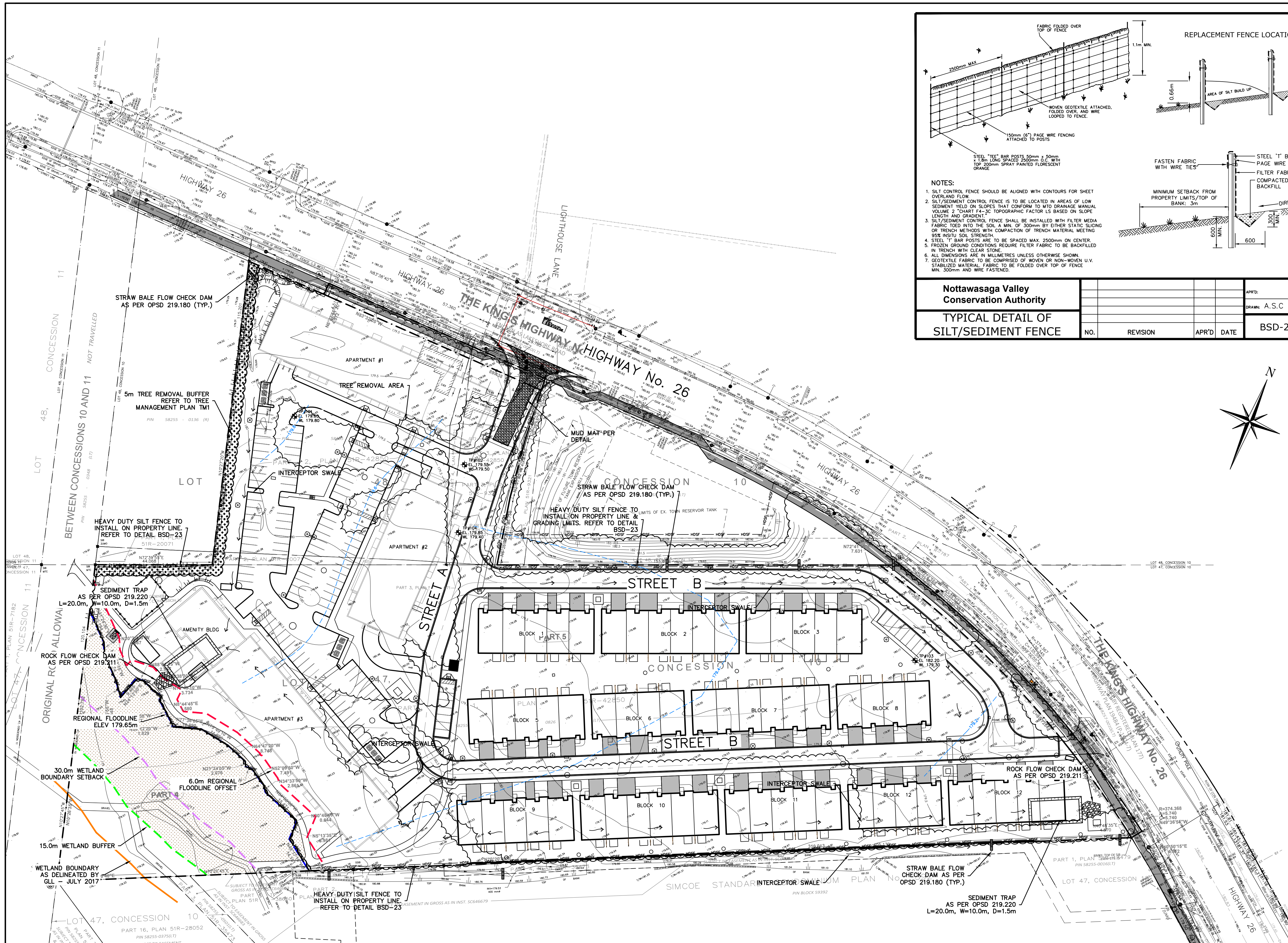
Drawing: 107

**CROZIER**  
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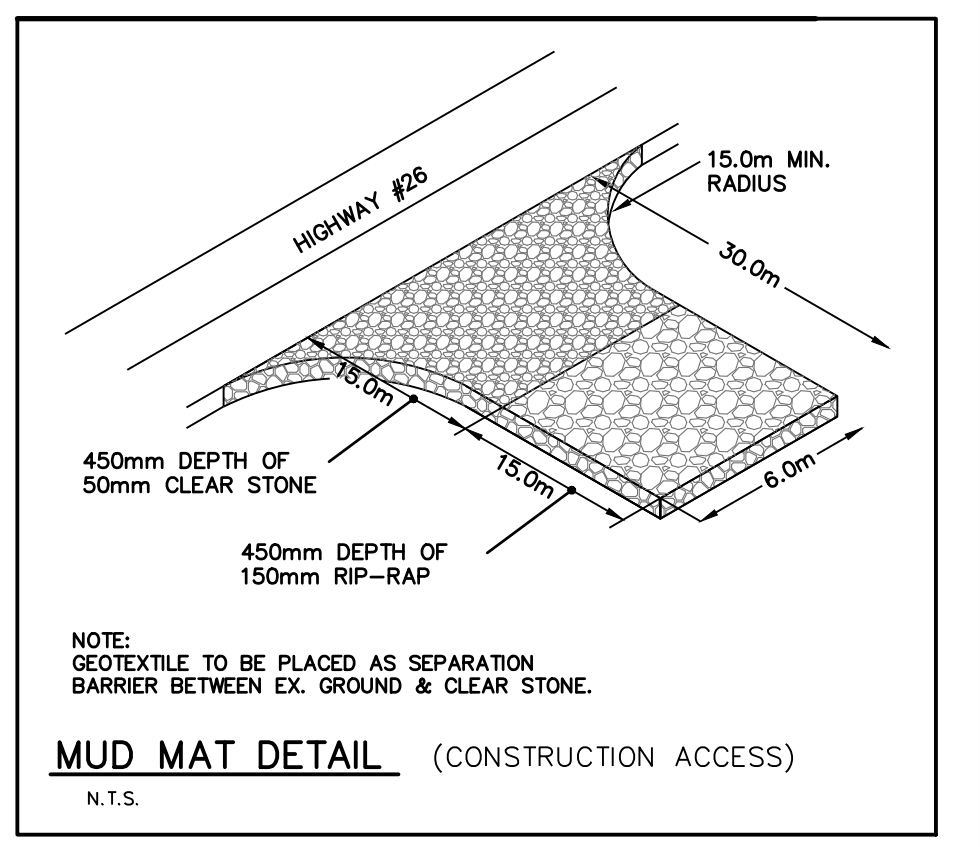


|   |          |               |                |
|---|----------|---------------|----------------|
| Nottawasaga Valley Conservation Authority |          | APR'D:        | DATE: 03.03.06 |
| TYPICAL DETAIL OF SILT/SEDIMENT FENCE     |          | DRAWN: A.S.C. | SCALE: N.T.S.  |
| NO.                                       | REVISION | APR'D         | DATE           |
|   |          |               | BSD-23 DRAFT   |

- GENERAL NOTES:**
- ALL CONSTRUCTION EQUIPMENT TO USE MAIN ACCESS POINT, LOCATED AT CRANBERRY TRAIL EAST.
  - NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF AN EXISTING WATER COURSE OR DITCH.
  - ALL SEDIMENT AND EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO ANY GRADING OPERATIONS COMMENCING. TYPICAL WORKS INCLUDE SILT FENCES, CONSTRUCTION ACCESS MUD MAT AND ROCK CHECK DAMS.
  - ALL TEMPORARY TOPSOIL STOCKPILES ARE TO BE PROVIDED WITH THE NECESSARY SEDIMENT AND EROSION CONTROL FEATURES. IF STOCKPILES ARE TO REMAIN FOR A PERIOD LONGER THAN 30 DAYS, STOCKPILES SHALL BE HYDROSEEDED AND SURROUNDED WITH SILT FENCE.
  - NO TREE CLEARING OR DISTURBANCE OF LANDS WILL OCCUR OUTSIDE OF CRANBERRY TRAIL EAST RIGHT-OF-WAY OR BLOCK 5 & 6 LIMITS.
  - THE SITE PROJECT ENGINEER SHALL UNDERTAKE WEEKLY INSPECTIONS OF ALL SEDIMENT/EROSION CONTROL FACILITIES DURING THE EXTENT OF THE ENTIRE CONSTRUCTION PROJECT AS WELL AS AFTER ALL RAIN EVENTS 13mm OR GREATER. THE WEEKLY INSPECTIONS ARE TO BE COMPLETED ON AN EROSION AND SEDIMENT CONTROL INSPECTION REPORT.
  - THE SITE ENGINEER SHALL PROVIDE WEEKLY STATUS REPORTS TO THE MUNICIPALITY AND CONSERVATION AUTHORITY ADVISING OF THE CONDITION OF STRUCTURES AND MAINTENANCE WORKS THAT HAVE BEEN UNDERTAKEN.
  - DURING THE CONSTRUCTION PERIOD, WHEN INTERNAL BLOCKS HAVE INITIATED CONSTRUCTION, A STREET CLEANING SCHEDULE WILL BE UNDERTAKEN ON A MINIMUM WEEKLY BASIS, OR AS DIRECTED BY THE SITE ENGINEER, MUNICIPALITY OR CONSERVATION AUTHORITY.

- CONSTRUCTION IMPLEMENTATION:**
- PRE-CONSTRUCTION
    - SITE ENGINEER TO ADVISE CONSERVATION AUTHORITY OF STAFF RESPONSIBLE FOR SITE SEDIMENT CONTROL SUPERVISION, INSPECTION AND MAINTENANCE, INCLUDING AFTER HOUR CONTACTS.
    - SITE ENGINEER TO PROVIDE WRITTEN INSPECTION AND MAINTENANCE SCHEDULE OF SEDIMENT CONTROL DEVICES.
    - CONTRACTOR TO INSTALL ALL SEDIMENT CONTROL DEVICES AS IDENTIFIED ON THE APPROVED EROSION CONTROL PLAN PRIOR TO EARTHWORKS OPERATIONS.
  - DURING CONSTRUCTION (SITE AND BUILDING WORKS)
    - CONTRACTOR TO ENSURE TOPSOIL STRIPPING, GRADING AND UNDERGROUND WORKS CONFORM TO APPROVED GRADING, SERVICING AND EROSION CONTROL PLANS.
    - SITE ENGINEER TO CONDUCT REQUIRED WEEKLY INSPECTION, MAINTENANCE AND REPORTING OF SEDIMENT CONTROLS TO THE CONSERVATION AUTHORITY. CONTRACTOR TO STABILIZE SITE AS REQUIRED THROUGHOUT SITE CONSTRUCTION SCHEDULE.
  - POST CONSTRUCTION (INCLUDING BUILDING CONSTRUCTION)
    - CONTRACTOR TO COMPLETE FINAL SITE STABILIZATION AND REVEGETATION WORKS.
    - CONTRACTOR TO REMOVE ALL SEDIMENT CONTROL DEVICES AFTER THE SITE IS STABILIZED TO A CONDITION EQUAL TO, OR BETTER THAN, PRE-CONSTRUCTION CONDITIONS.

- MAINTENANCE & OPERATIONS OF SEDIMENT CONTROLS**
- SILT FENCE
    - SILT FENCE TO BE LOCATED ON CRANBERRY TRAIL ROW LIMITS.
    - SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
    - SILT FENCE MUST BE INSPECTED FOLLOWING ALL 13mm OR GREATER RAIN STORM EVENT OR AS DIRECTED BY SITE ENGINEER.
    - SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
    - ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.
  - ROCK & STRAW BALE FLOW CHECK DAM
    - REMOVE ACCUMULATED SEDIMENT UP STREAM OF THE CHECK DAM IF GREATER THAN 50% OF DAM HEIGHT.
    - SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
    - CHECK DAMS AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.



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| 4   | ISSUED FOR 3RD SUBMISSION SPA         | 09/03/2021       |

Engineer

**D. M. TONE**  
10015132  
PROVINCE OF ONTARIO

Engineer

**R.A. ALEXANDER**  
100213093  
Sept 3<sup>rd</sup> 2021  
PROVINCE OF ONTARIO

Project

**RESIDENCES AT SILVER CREEK**

Drawing

**EROSION & SEDIMENT CONTROL PLAN**

|          |      |           |      |         |           |
|----------|------|-----------|------|---------|-----------|
| Drawn By | L.W. | Design By | J.O. | Project | 1790-5382 |
| Check By | R.A. | Check By  | D.T. | Scale   | 1:750     |
|          |      |           |      | Drawing | 108       |

**CROZIER CONSULTING ENGINEERS**

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**CONSTRUCTION NOTES:**

**A) GENERAL - CONSTRUCTION**

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF COLLINGWOOD STANDARDS (2009), OPSP AND OPSS. WHERE CONFLICT OCCURS, TOWN OF COLLINGWOOD STANDARDS (2009) TO GOVERN.
- TRENCH BACKFILL (OPSP 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).
- PIPE COVER AND BEDDING TO BE GRANULAR 'A' (MINIMUM 150mm DEPTH COMPACTED TO A MINIMUM 95%SPMDD).
- ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK. THE DEVELOPER'S ENGINEER WILL CONFIRM ALL BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT FOR THE CONTRACTOR.
- ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS-517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR RESPONSIBLE FOR OBTAINING M.E.C.P. PERMIT IF REQUIRED.
- ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- DISTURBED AREAS OUTSIDE THE DEVELOPABLE LANDS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.
- ALL ROCK EXCAVATION PER OPSS-206.
- ALL EXCAVATION MUST BE CARRIED OUT IN FULL COMPLIANCE WITH MOST RECENT GUIDELINES OF O.H.S.A. NATIVE SOILS ARE CLASSIFIED AS TYPE 3 SOIL.
- IMPORTED FILL MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER TO BE COMPACTED TO 98% SPMDD TO BE USED FOR FILL PADS FOR THE TOWNHOME AND MIDRISE BLOCKS TO 0.5m ABOVE UNDERSIDE OF FOOTING ELEVATION. REFER TO GEOTECHNICAL REPORT.

**B) ROADS**

- SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING GRANULAR 'B'.
- GRANULAR 'A' AND 'B' ROAD BASE TO BE COMPACTED TO 100% OF THE MATERIAL'S RESPECTIVE SPMDD AND PLACED IN MAX. 150mm LIFTS. REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS.
- CONDO ROADWAY TO BE CONSTRUCTED WITH MINIMUM 300mm GRANULAR 'B' TYPE 1, 150mm GRANULAR 'A', 50mm HLB BASE COURSE ASPHALT, & 40mm HLB SURFACE COURSE ASPHALT.
- SELECT SUBGRADE MATERIAL, OR IMPORTED GRANULAR MATERIAL APPROVED BY THE ENGINEER, COMPACTED TO 98% SPMDD TO BE USED AS FILL IN ALL AREAS WHERE PROPOSED PIPE INVERTS ARE HIGHER THAN EXISTING GRADE OR AS INSTRUCTED BY THE ENGINEER.
- ALL GRANULARS AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314 AND OPSS 310.
- JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT WITH MIN. 1.0m LAP JOINT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.
- STOP SIGNS AND STREET SIGNS TO TOWN STANDARDS (DETAIL DWG NO. 401)
- REINSTATEMENT OF ALL DISTURBED BOULEVARDS TO INCLUDE REGRADING, 150mm TOPSOIL AND 500 TO OPSS 802 AND 803.
- 100mm Ø PIPE SUBDRAINS SHALL BE PROVIDED UNDER EDGE OF PAVEMENT ON LOWER SIDE OF THE SUPER-ELEVATED ROAD.
- ALL SUBDRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 405. SUBDRAIN TO BE INSTALLED IN GRANULAR 'A' TRENCH AND CONNECTED TO EACH CB OR CBM.
- SUBDRAINS TO BE PERFORATED OTHER THAN THE 2.0m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.
- ASPHALT WALKWAY TO BE CONSTRUCTED WITH MINIMUM 300mm GRANULAR 'B' TYPE 1, 200mm GRANULAR 'A' AND 50mm HLB ASPHALT IN ACCORDANCE WITH OPSS 311.
- CONCRETE SIDEWALK TO BE CONSTRUCTED PER OPSP 310.010 WITH MINIMUM 200mm GRANULAR 'A' BASE.
- TACTILE WALKING SURFACE INDICATORS AT WALKWAY CROSSINGS AND ACCESSIBLE PARKING STALL ACCESS AISLES AS PER OPSP 310.039.

**C) SANITARY SEWERS**

- M.H.'S TO OPSP - 701.010, 701.030, & 704.010.
- BENCHING TO OPSP - 701.021.
- STEPS TO OPSP - 405.010.
- BACKFILL AND EMBEDMENT TO OPSP - 802.010 CLASS 'B', GRANULAR 'A' BEDDING.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL, AS APPROVED BY GEOTECHNICAL ENGINEER, OR IMPORTED GRANULAR MATERIAL.
- FRAMES AND COVERS TO OPSP - 401.01 TYPE 'A' (CLOSED COVER).
- SERVICE CONNECTIONS TO OPSP - 1006.020 (125mm), GRANULAR 'A' BEDDING, TERMINATE AT SERVICING CORRIDOR LIMITS, 125 x 100 REDUCER, PLUG AND 2X4 MARKER POST PAINTED GREEN. MINIMUM GRADE TO BE 2.0% MAXIMUM 8.0%.
- RADIUS BENDS TO BE USED ON SANITARY SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- MAINTENANCE HOLES FRAMES TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISED BY ADDING RISER RINGS PRIOR TO PLACING SURFACE COURSE ASPHALT.
- PIPE SUPPORT AT MAINTENANCE HOLES AS PER OPSP 708.020.
- ALL MAINTENANCE HOLES, UNLESS EXPRESSLY IDENTIFIED ARE 1200mmØ.
- GENERAL INSTALLATION AND TESTING OF SEWERS AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 407, 408, 409 (CCTV), 410, 421 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.
- SANITARY SEWER - SDR 35 PVC.
- SANITARY SERVICE - SDR 28 PVC - 125mm FOR RESIDENTIAL UNITS AND 150mm FOR MIDRISE BUILDINGS AS PER OPSP 1006.020 SEWER SERVICE CONNECTION FOR FLEXIBLE PIPE.
- FROST STRAPS PER OPSP 701.100.
- CLAY SEEPAGE PLUGS (0.5M THICK) TO BE PLACED ALONG PIPE BETWEEN MAINTENANCE HOLES.

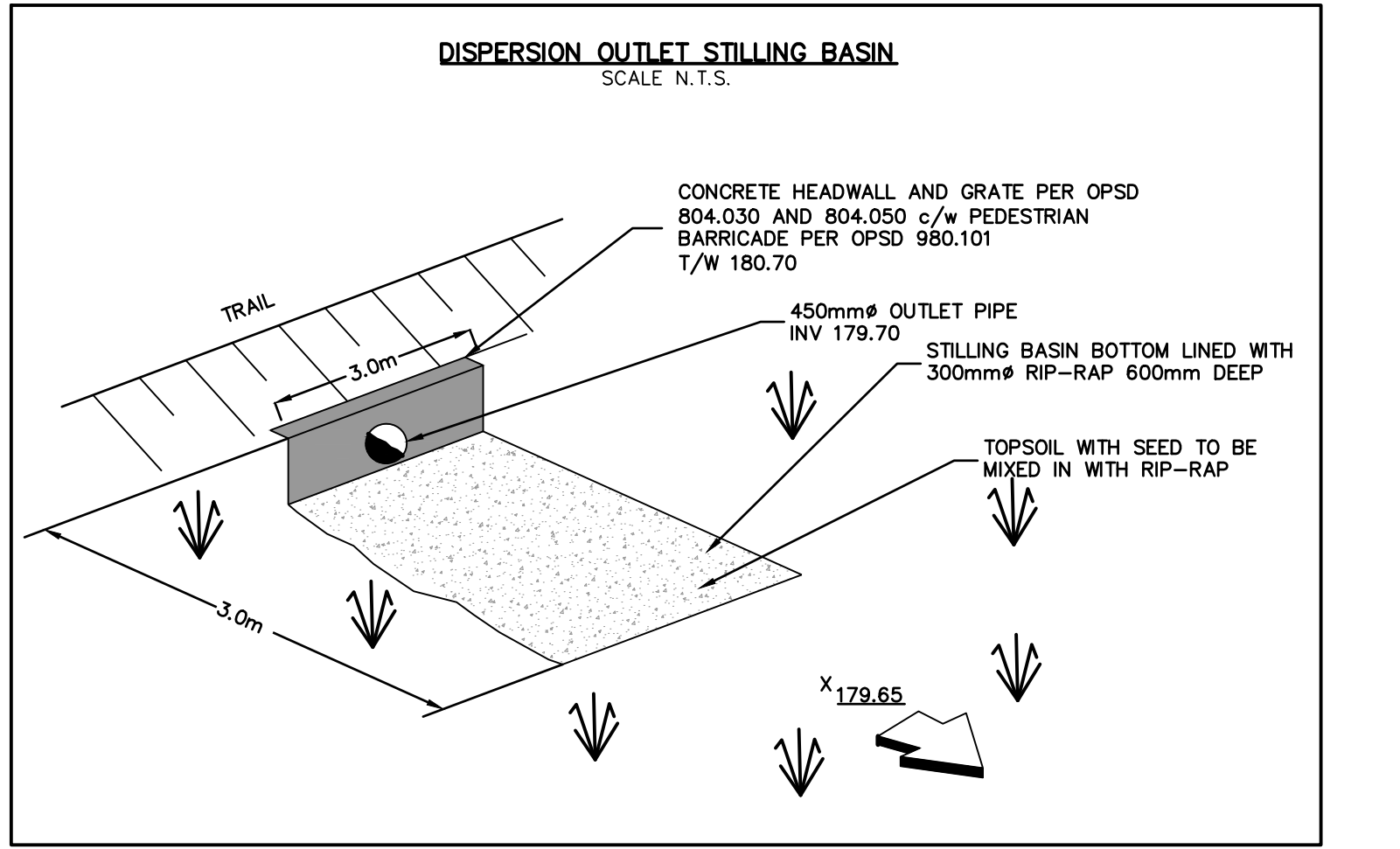
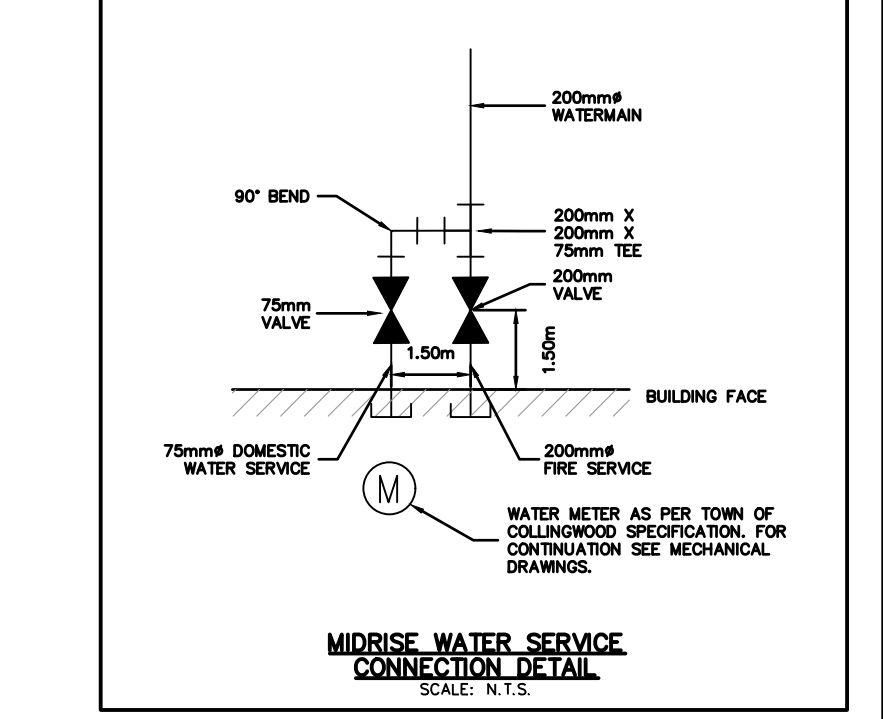
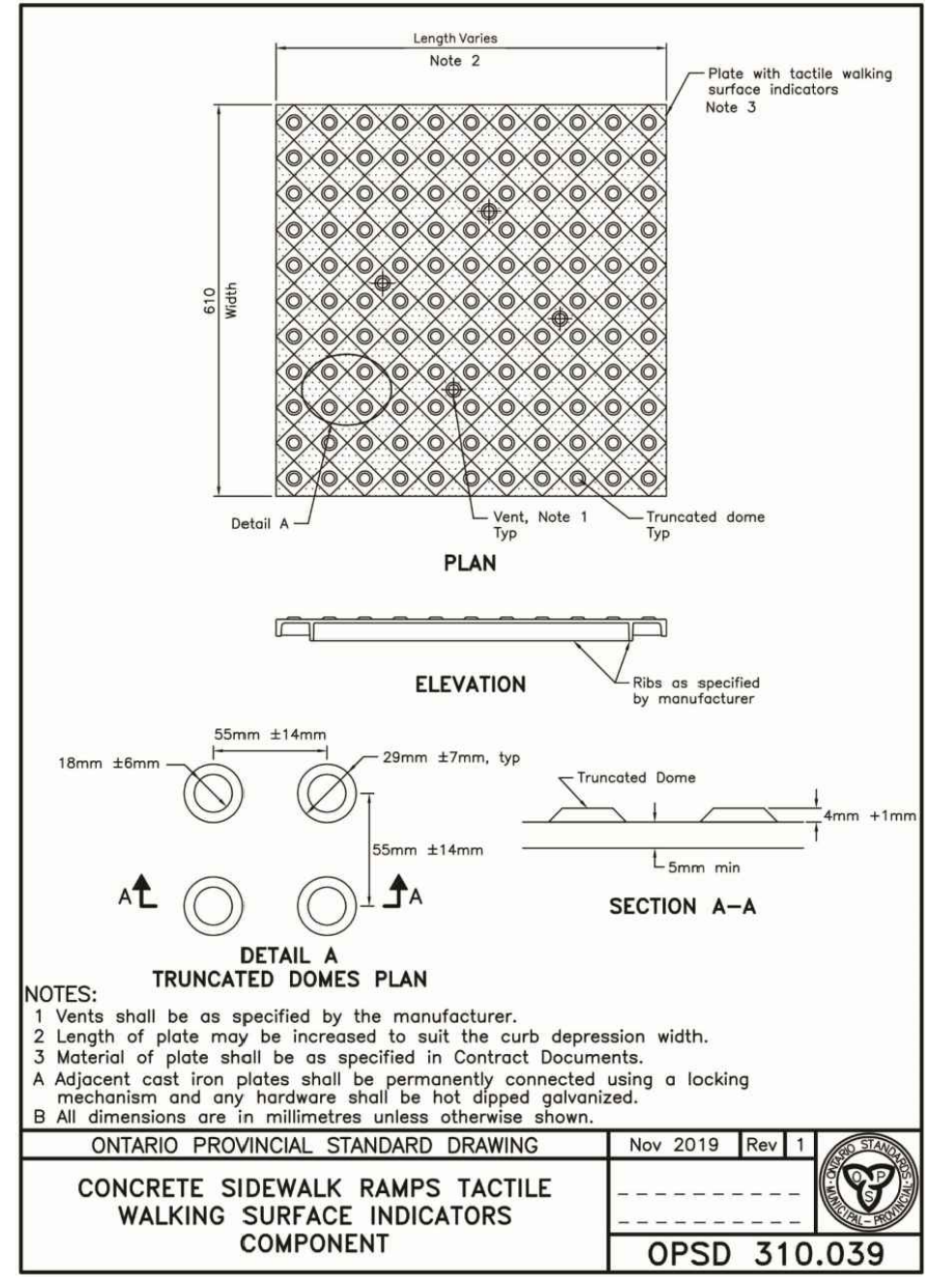
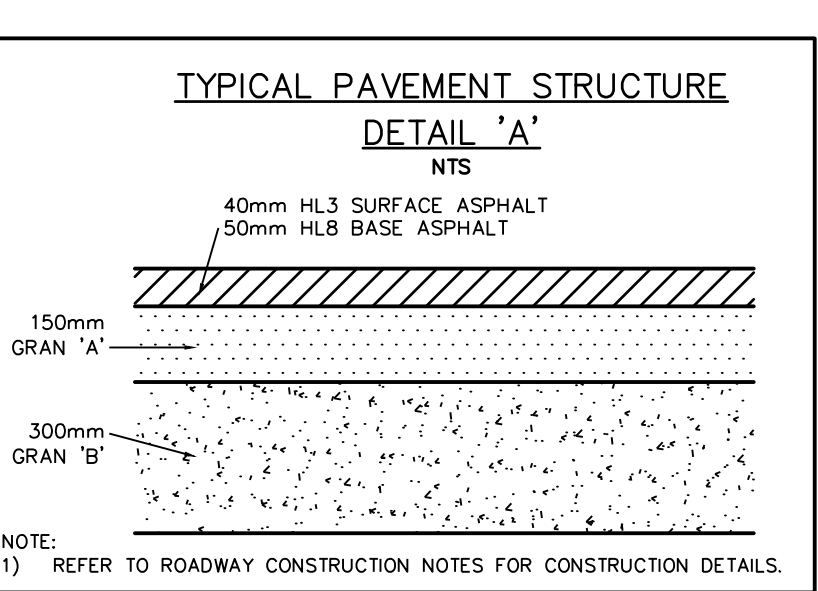
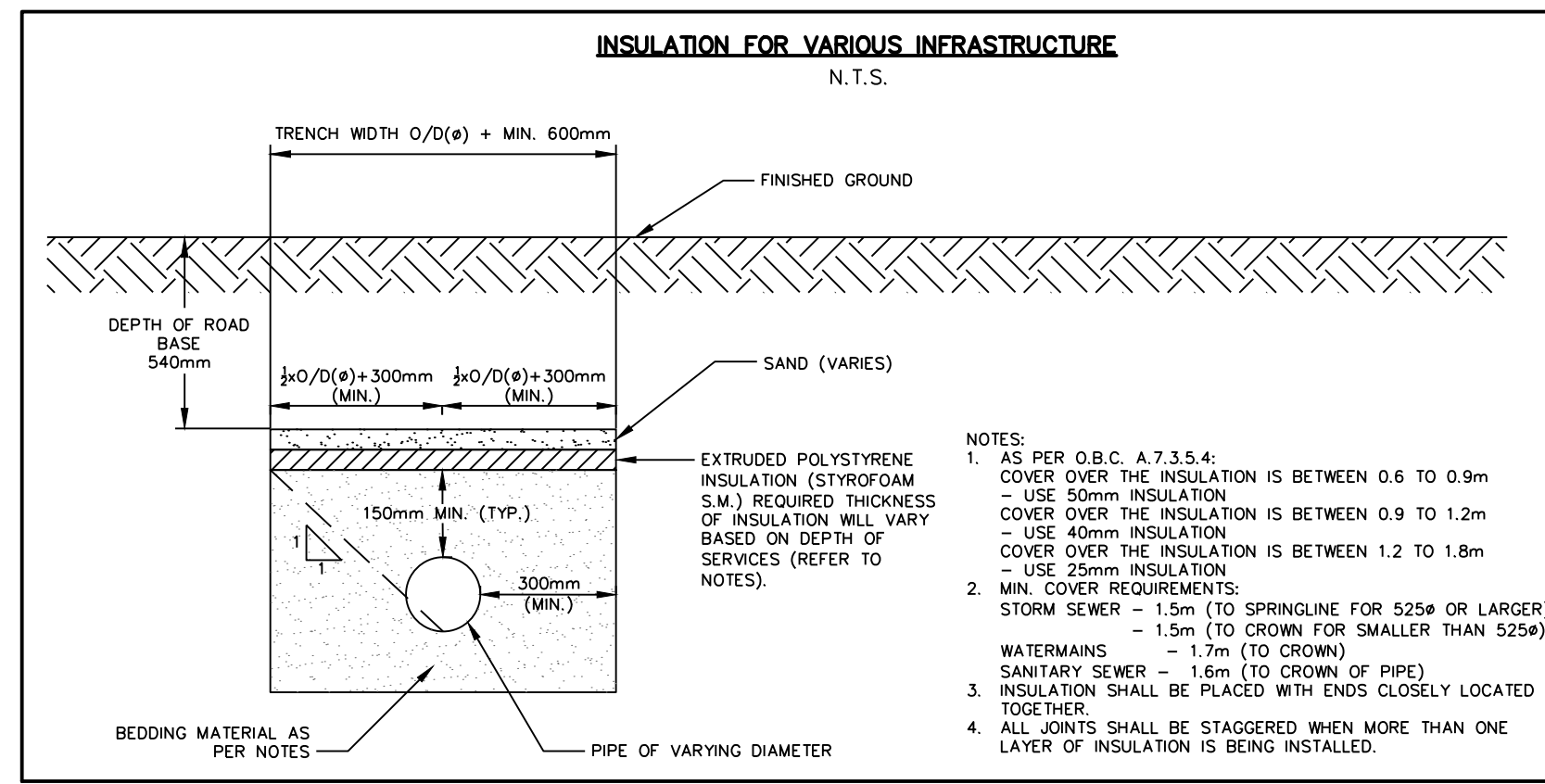
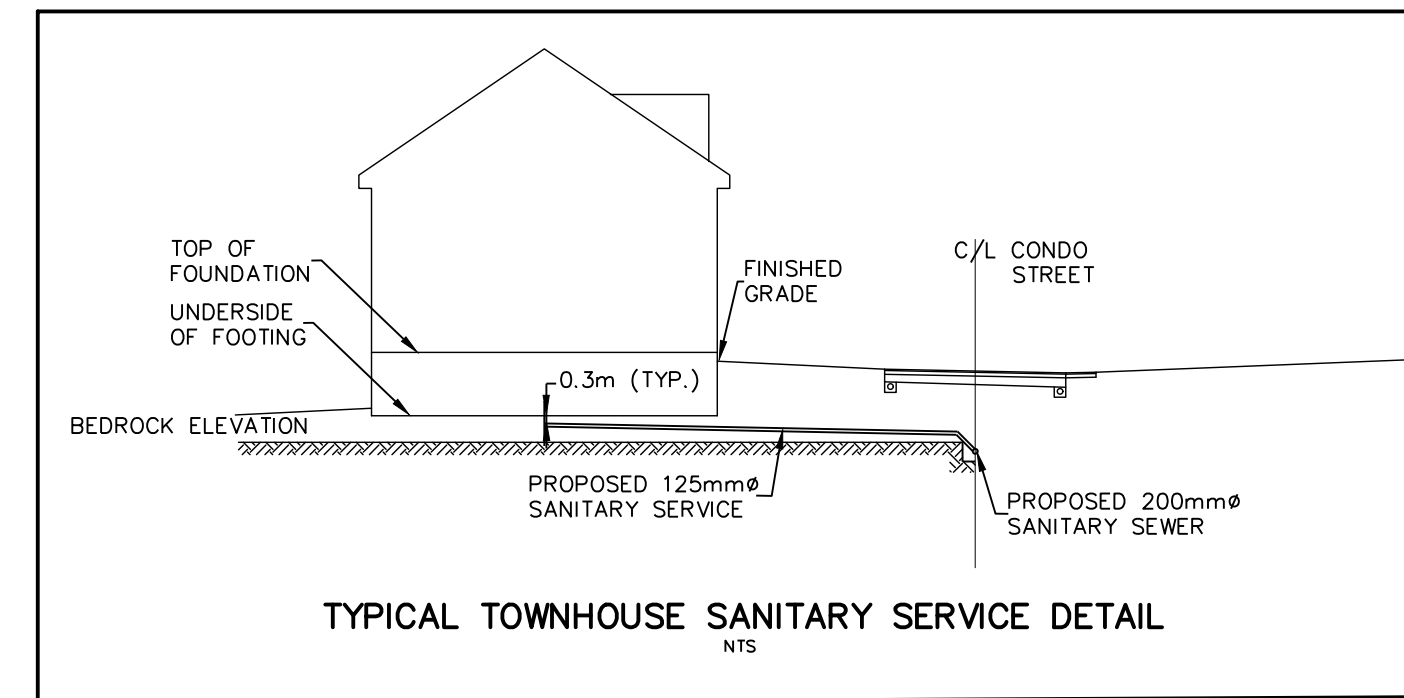
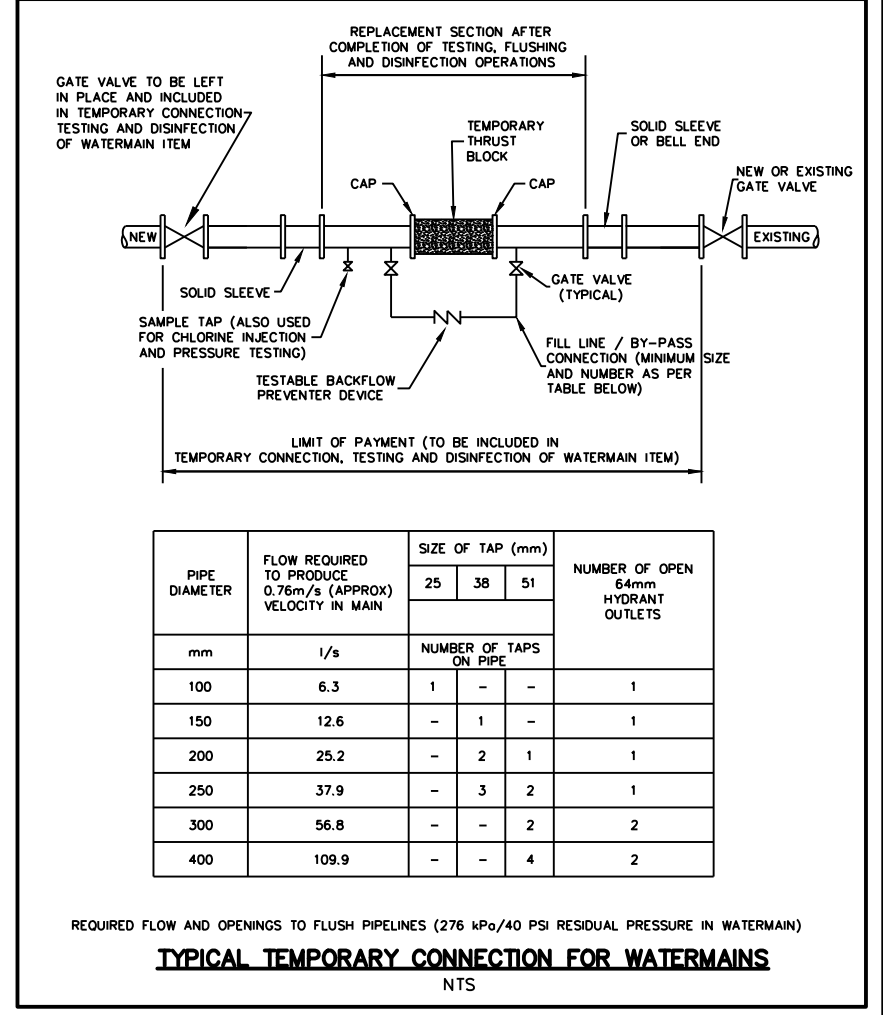
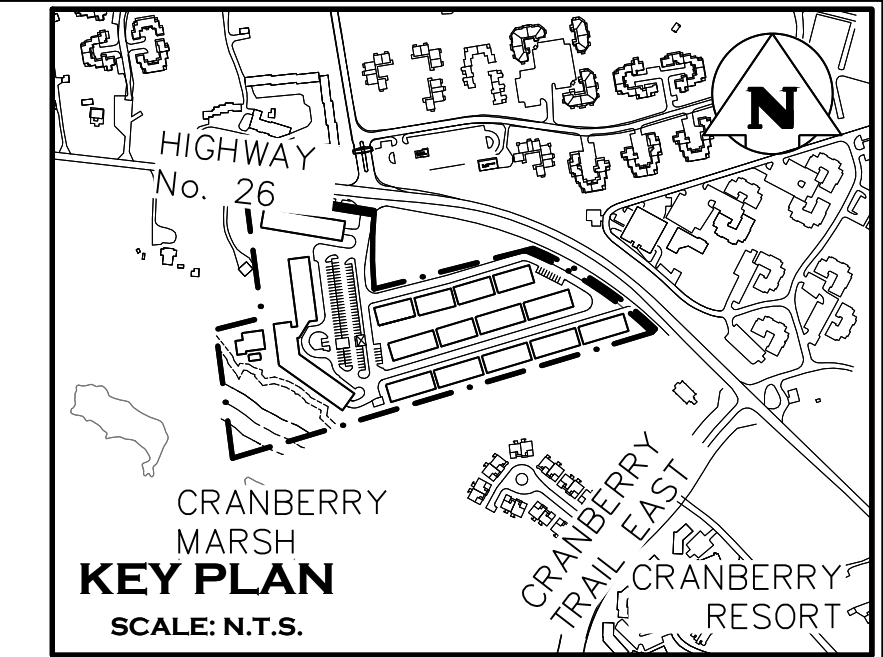
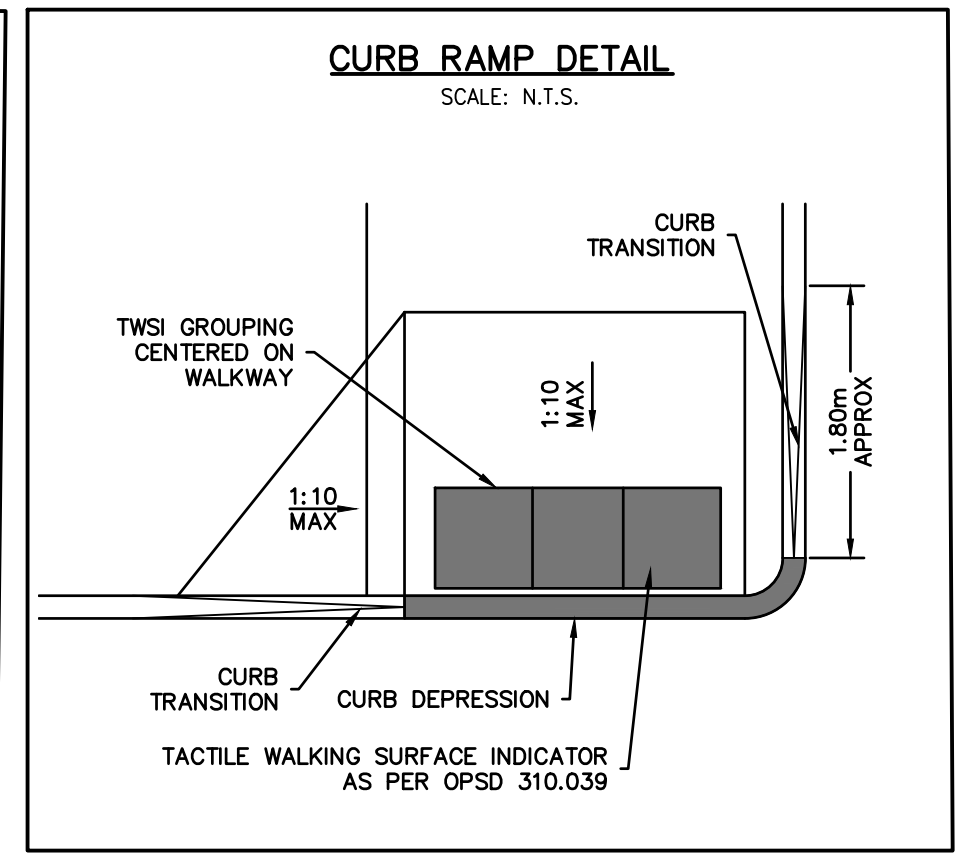
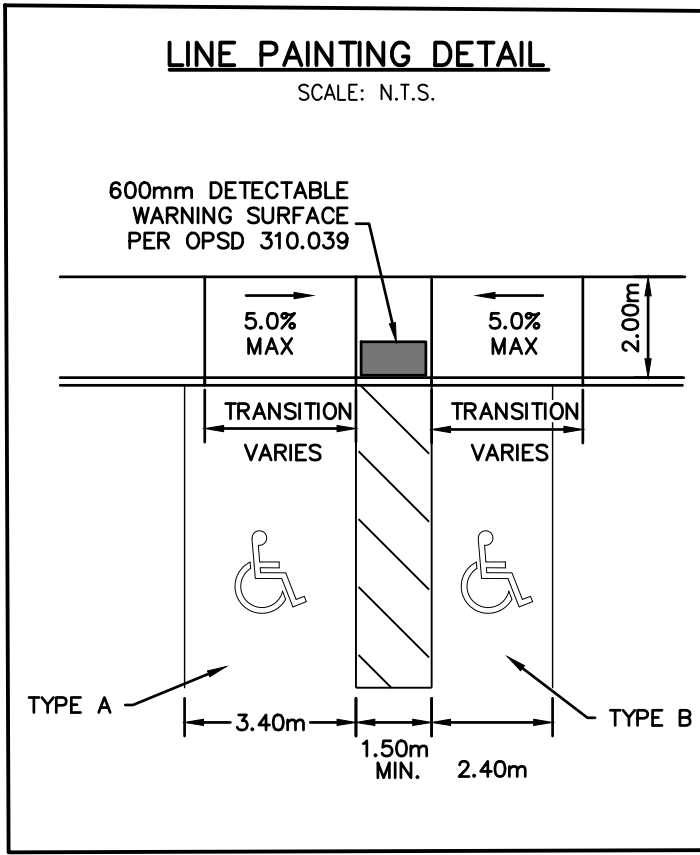
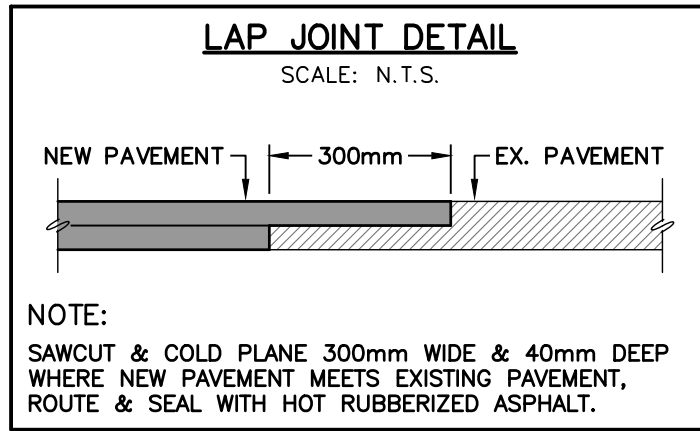
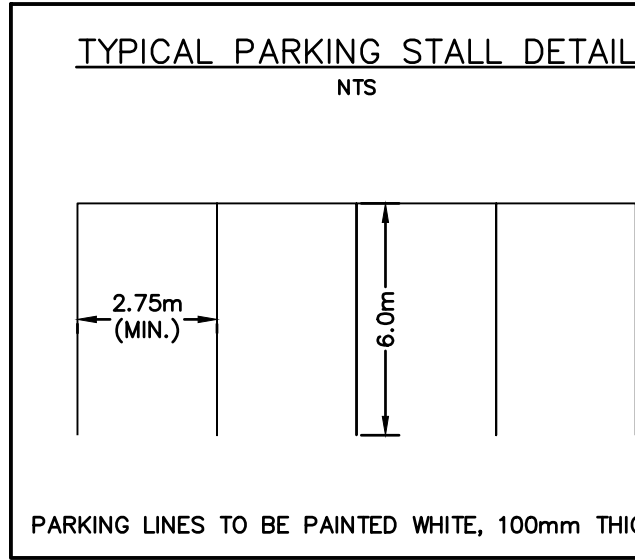
**D) WATERMANS**

- BACKFILL AND EMBEDMENT TO OPSP - 802.010 CLASS 'B', GRANULAR 'A' EMBEDMENT.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL, AS APPROVED BY GEOTECHNICAL ENGINEER, OR IMPORTED GRANULAR MATERIAL.
- THRUST BLOCKS TO OPSP - 1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
- SERVICE CONNECTIONS TO OPSP - 1104.010, 100mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT SERVICING CORRIDOR LIMITS C/W CURB STOP AND BOX.

- HYDRANTS TO OPSP - 1105.010 DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- MINIMUM COVER ON WATERMAIN AND SERVICES TO BE 1.7m.
- GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROLMAC GRIPPER RING RESTRAINING GLANDS. CLEARANCE BETWEEN WATERMANS AND SEWERS TO BE AS PER M.E.C.P. GUIDELINES, MINIMUM 0.5m VERTICAL SEPARATION WHERE SEWER IS ABOVE WATERMAIN & 2.5m MINIMUM HORIZONTAL SEPARATION.
- ALL SERVICES TO BE DIRECT TAPPED.
- FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND TOWN OF COLLINGWOOD WATER DEPARTMENT.
- GENERAL INSTALLATION AND TESTING OF WATERMAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 441 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS. COMPLETE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF AWWA STANDARD C651-99. REFER TO DETAIL ON THIS DRAWING FOR TYPICAL TEMPORARY CONNECTION. ALL WATERMAIN TESTING & CHLORINATION WILL BE CONDUCTED BY TOWN OF COLLINGWOOD WATER DEPARTMENT AT CONTRACTORS COST. PROPOSED WATERMANS ARE NOT TO BE CONNECTED TO EXISTING WATERMANS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED & CERTIFIED BY TOWN OF COLLINGWOOD WATER DEPARTMENT.
- COMPLETE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF O. REG. 459/00 & SATISFACTION OF TOWN OF COLLINGWOOD WATER DEPARTMENT.
- WATERMAIN - CLASS 52 OR PRESSURE CLASS 350 CEMENT LINED DUCTILE IRON.
- SINGLE WATERMAIN SERVICES - 19mmØ TYPE 'K' COPPER PIPE. FOR DOUBLE WATER SERVICE, THE COMMON WATER SERVICE & MAIN STOP TO BE 25mmØ TYPE 'K' COPPER. SPLITTER FITTING SHOULD BE 'U' TYPE & LOCATED OUTSIDE OF DRIVEWAYS.
- MAIN STOPS TO 301-AHHA, BALL STYLE, AWWA THREAD BY COMPRESSION CAMBRIDGE BRASS.
- CURB STOPS TO 203-H3H3, BALL STYLE WITH DRAIN, COMPRESSION JOINT BY CAMBRIDGE BRASS.
- A CURB STOP & EXTENSION SERVICE BOX & MAIN STOP MUST BE INSTALLED ON EACH SERVICE USING COMPRESSION JOINT FITTINGS.
- ALL CURB STOPS FOR SERVICES WITHIN ASPHALT TO BE LOCATED IN VALVE BOXES INSTALLED FLUSH TO FINISHED GRADE OF ASPHALT. CAP FOR VALVE BOX TO BE MARKED WITH 'W' & PAINTED BLUE.
- SERVICE BOXES TO NUMBER 7, D-I CLOW OR MUELLER, 24" BLACK ROADS STRAIGHT C/W CAP PAINTED BLUE.
- ALL SERVICES SHALL BE METERED. METERS TO BE COMPLETE WITH REMOTE READOUT OR RADIO READ AS DETERMINED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT.
- HYDRANTS - CENTURY NUMBER 1, OPEN LEFT (O/L), 2 HOSE, 33Ø PLUMBER PORT, 6" MJ BASE, SELF-DRAINING YELLOW BASE WITH SILVER BONNET AND PORTS.
- VALVES - RESILIENT SEATED, RSGV MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5-1/2" 48 SLIDING VALVE BOX C/W CAP PAINTED BLUE.
- MECHANICAL JOINT DUCTILE FITTINGS - AWWA/ANSI C153/A21.53.
- HYDRANTS TO BE INSTALLED C/W HYDRANT MARKER STAKES PER TOWN OF COLLINGWOOD WATER DEPARTMENT STANDARD "FLEX STAKE HYDRANT MARKER MODEL FVH804, 48" LONG, COLOUR YELLOW WITH REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES" MARKER TO BE POSITIONED ON THE RIGHT PORT AS VIEWED FROM STREET.
- 50mmØ WATER SERVICES - TYPE 'K' COPPER, 100mmØ SERVICES WILL BE DUCTILE IRON.
- ALL VALVES TO BE OPERATED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT. CONTRACTOR TO PROVIDE MIN. 48 HOUR NOTIFICATION FOR REQUEST.
- HYDRANTS ARE TO BE 1.87m (5'6") LONG MAKE-UP PIECES, IF REQUIRED, ARE TO BE INSTALLED BELOW THE HYDRANT.
- ALL WATERMAIN FITTINGS TO BE LEAD FREE.
- 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. FINAL LIMITS TO BE FIELD DECISION.
- PREMISE PROTECTION BACKFLOW PREVENTION DEVICES AS PER CSA B64.10-11/B64.10.1-11, OBC AND THE TOWN WATER BY-LAW SHALL BE PROVIDED FOR APARTMENT BUILDINGS AND RECREATIONAL FACILITIES.

**E) STORM SEWERS**

- MH TO OPSP 701.010 AND DCB/MH TO OPSP - 701.011, C/W SUMP UNLESS NOTED OTHERWISE.
- STEPS TO OPSP 405.010.
- MH FRAMES AND GRATES TO OPSP - 401.01 OPEN COVER.
- DCB'S TO OPSP - 705.030, 705.040.
- DCB/MH FRAMES AND GRATES TO OPSP - 708.020.
- PIPE SUPPORT AT DCB/MH'S TO OPSP - 708.020.
- DCB LEADS - 300mm Ø DOUBLE TO OPSP - 708.010, 708.030.
- PROTECTION DURING CONSTRUCTION TO OPSP - 808.010.
- BACKFILL AND EMBEDMENT TO OPSP - 802.010 (FLEXIBLE PIPE) CLASS 'B', GRANULAR 'A' EMBEDMENT OR OPSP - 802.030, 802.031 AND 802.032 (RIGID PIPE) GRANULAR 'A' EMBEDMENT COVER MATERIAL FOR RIGID PIPE MUST BE CERTIFIED BY GEOTECHNICAL CONSULTANT PRIOR TO USING FOR REMAINING PIPE EMBEDMENT BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
- MAIN SEWERS OVER 450mmØ SHALL BE CONCRETE PIPE (OPSS 1820). PIPE INSTALLED BENEATH THE ROADWAYS SHALL BE REINFORCED PER CSA A257.2, CLASS 50-D. MAIN SEWERS 450mmØ AND UNDER SHALL BE PVC PIPE (OPSS 410). MIN. PIPE STIFFNESS SHALL BE 320 KPA. PIPE INSTALLED WITHIN LANDSCAPED AREAS CAN BE NON-REINFORCED PER CSA A257.1 CLASS 3. ALL PIPE TO BE JOINED WITH A GASKETED BELL AND SPIGOT SYSTEM.
- FROST STRAPS PER OPSP 701.100.
- STORM SERVICES TO BE 100mmØ PVC SDR28 COLORED WHITE FOR TOWNHOUSE UNITS AND 200mmØ PVC SDR35 FOR MIDRISE BUILDINGS.
- STORM SERVICES CONNECTING TO CONCRETE STORM SEWERS TO BE MADE USING CORE METHOD AND PRE-MANUFACTURED BOOT.
- STORM SERVICES TO BE MARKED WITH A 2"x4" STAKE PAINTED WHITE.
- MINIMUM COVER ON STORM SEWER AND SERVICE TO BE 1.5m AS PER TOWN OF COLLINGWOOD STANDARDS.



1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.

3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.

4. DO NOT SCALE THE DRAWINGS.

5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM, WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CVG28 DATUM (1978 ADJUSTMENT) WITH GEOID MODEL HTV2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.

TBM#1 - CUT CROSS EAST OF THE GRAVEL DRIVEWAY ENTRANCE TO THE 1.5 STORY FRAME DWELLING, HAVING AN ELEVATION OF 182.45m.

TBM#2 - CUT CROSS AT THE BELL MH BETWEEN TWO ASPHALT DRIVEWAYS NORTH EAST OF THE SUBJECT LANDS, HAVING AN ELEVATION OF 180.12m.

TBM#3 - TOP OF SIB AT THE SOUTH EAST CORNER OF THE SUBJECT LANDS HAVING AN ELEVATION OF 179.75.

TOPOGRAPHIC AND LEGAL SURVEY COMPLETED BY VAN HARTEN SURVEYING INC ON AUGUST 24, 2019.

| No. | ISSUE                                 | DATE: MM/DD/YYYY |
|-----|---------------------------------------|------------------|
| 0   | ISSUED FOR SPA                        | 07/17/2020       |
| 1   | ISSUED FOR 2ND SUBMISSION SPA         | 03/09/2021       |
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Engineer

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**R.A. ALEXANDER**  
100213093  
Sept 3<sup>rd</sup> 2021  
PROVINCE OF ONTARIO

Project

**RESIDENCES AT SILVER CREEK**

Drawing

**DETAIL PLAN**

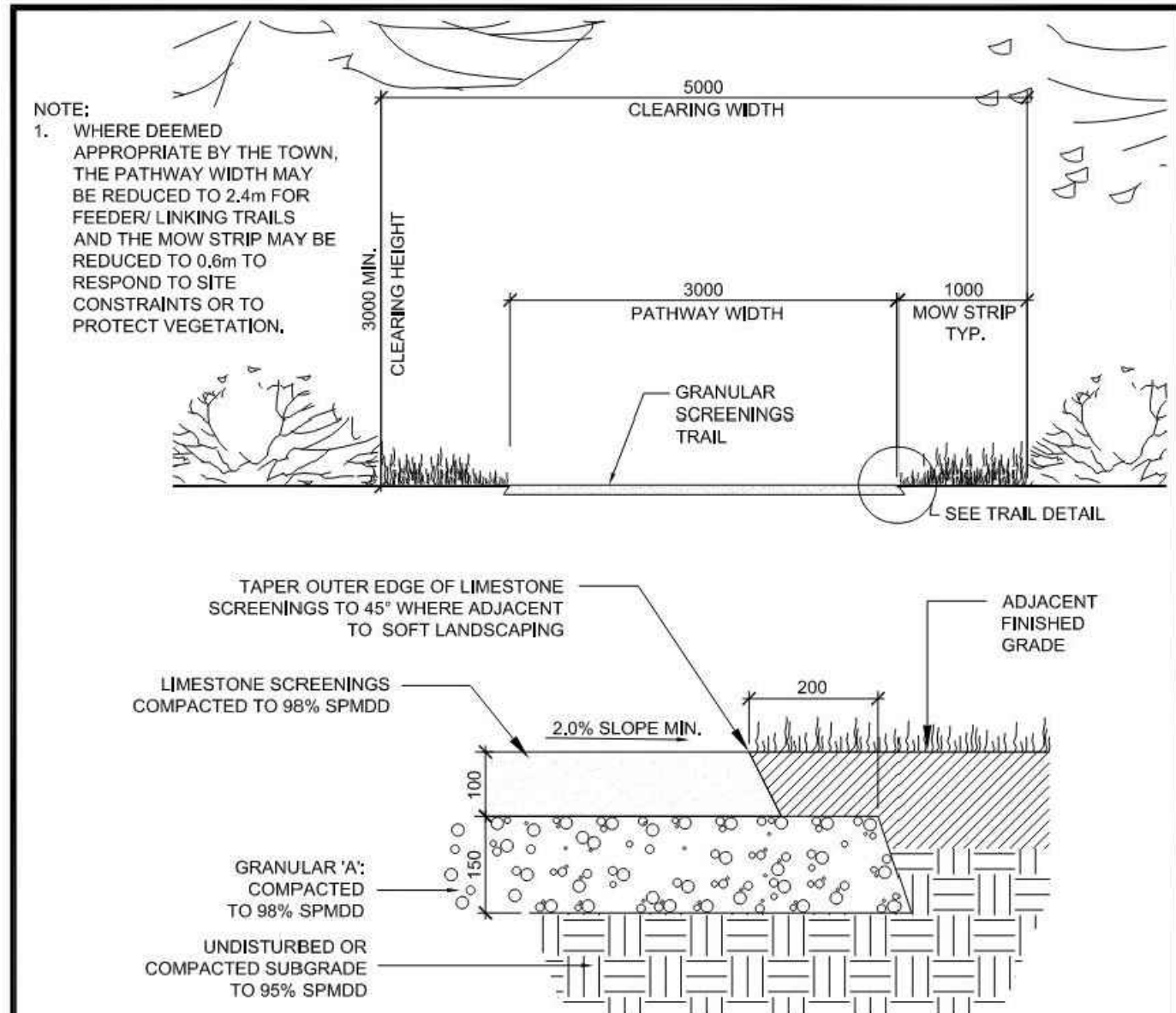
Town Approval

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Drawn By: L.W. Design By: J.O. Project: **1790-5382**

Check By: 1-100 R.A. Check By: D.T. Scale: Drawing: **109**



- NOTES:**
- EXCAVATE ALL TOPSOIL AND ORGANIC MATTER UNDER TRAIL BED. STANDARD DETAIL REFLECTS IDEAL SUBGRADE CONDITIONS ON COMPACTED WELL DRAINED SOIL. ADDITIONAL GRANULAR MATERIAL MAY BE REQUIRED TO SUIT CONDITIONS.
  - ALL GRANULAR WORK TO BE IN ACCORDANCE WITH OPSS 314.
  - IN AREAS WHERE FULL ORGANIC REMOVAL CANNOT BE ACHIEVED OR IN AREAS WHERE WETTER SOILS ARE PRESENT, TERRAFIX 24-15 GEOTEXTILE (OR APPROVED EQUAL) MAY BE INSTALLED UNDER THE GRANULAR SUB-BASE. THE GEOTEXTILE SHALL EXTEND 200mm BEYOND THE SUBBASE LAYER ON EACH SIDE OF THE TRAIL AND BE BURIED.
  - DIRECTION OF CROSS SLOPE SHALL BE ADJUSTED TO SUIT GRADING REQUIREMENTS.
  - DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

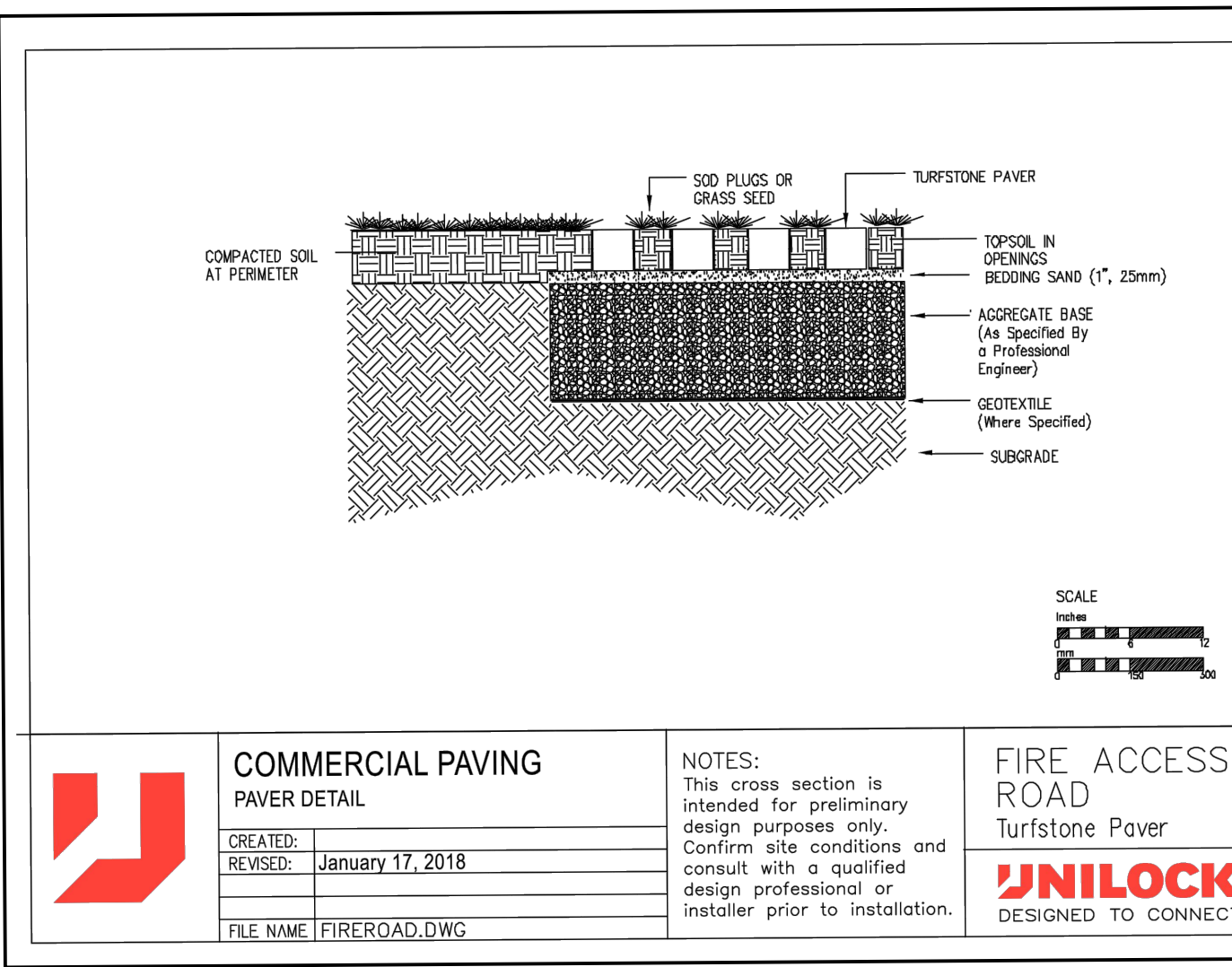
| NO. | REVISION                                     | APRD | DATE     |
|-----|--|------|----------|
| 3   | UPDATED NOTES & DIMENSIONS                   |      | SEPT/12  |
| 2   | REVISED PROFILE, AND DETAIL NAME & NUMBERING |      | APRIL/12 |
| 1   | ADDITION OF CONSTRUCTION DETAIL              |      | DEC/07   |

TOWN OF COLLINGWOOD  
GRANULAR SCREENINGS TRAIL

APRD: TOWN  
DRAWN: CW/DW

DATE: JAN/03  
SCALE: NTS

STD. No. 1122

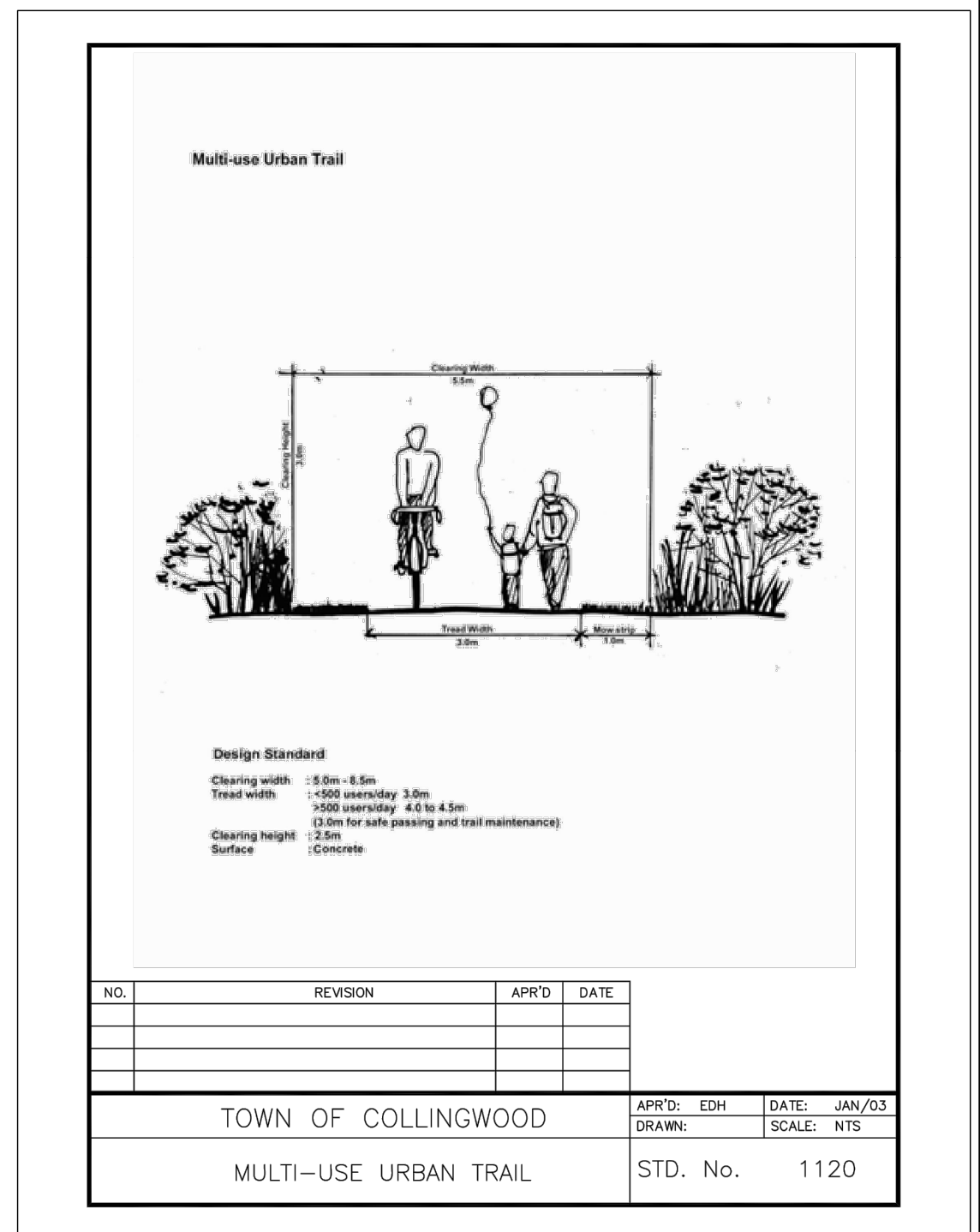
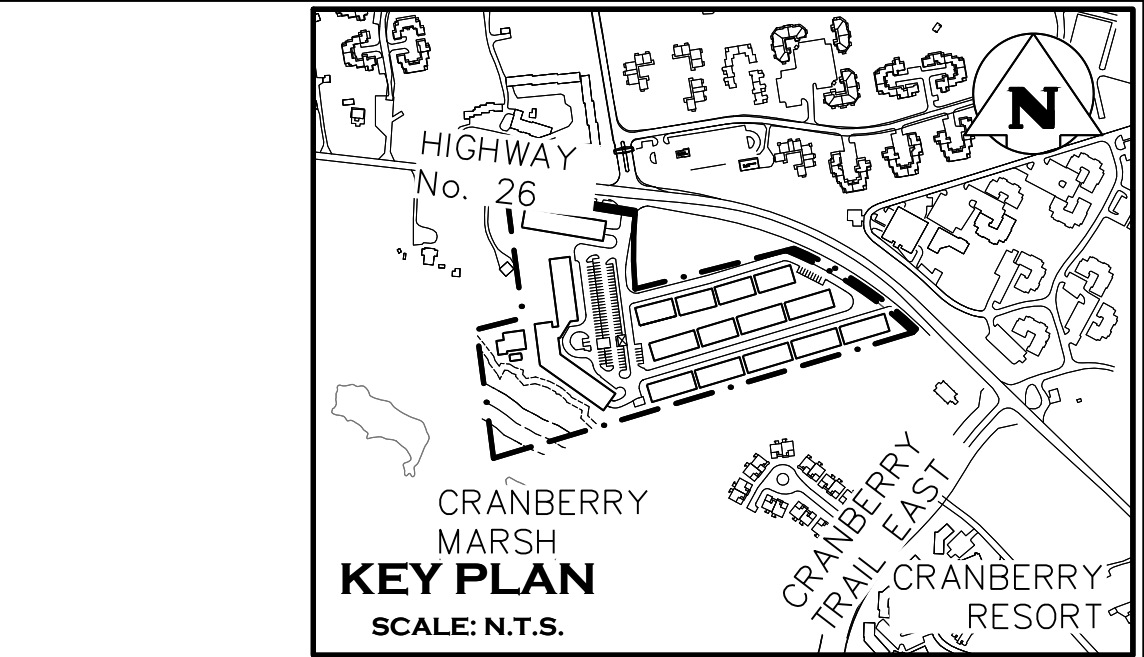
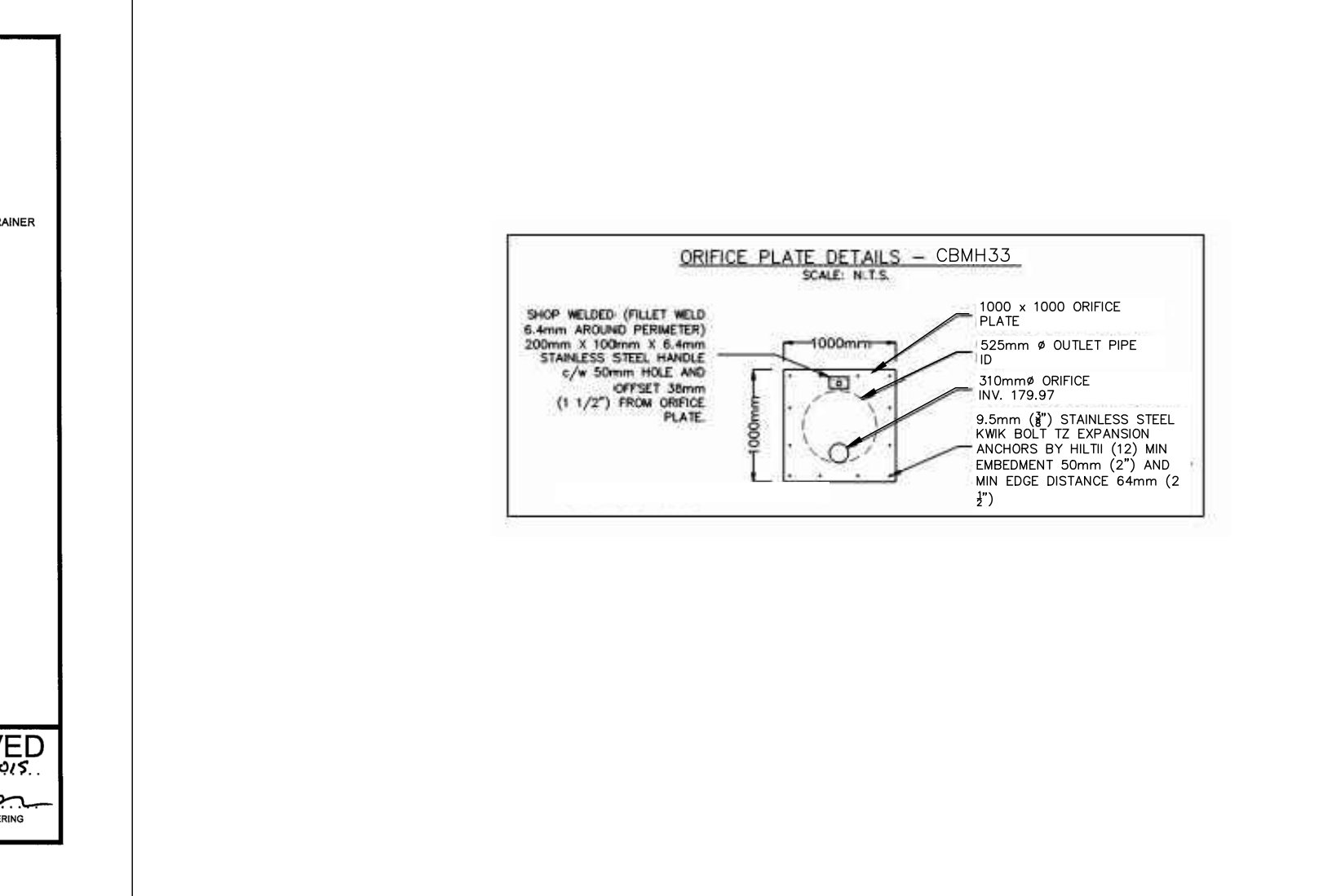
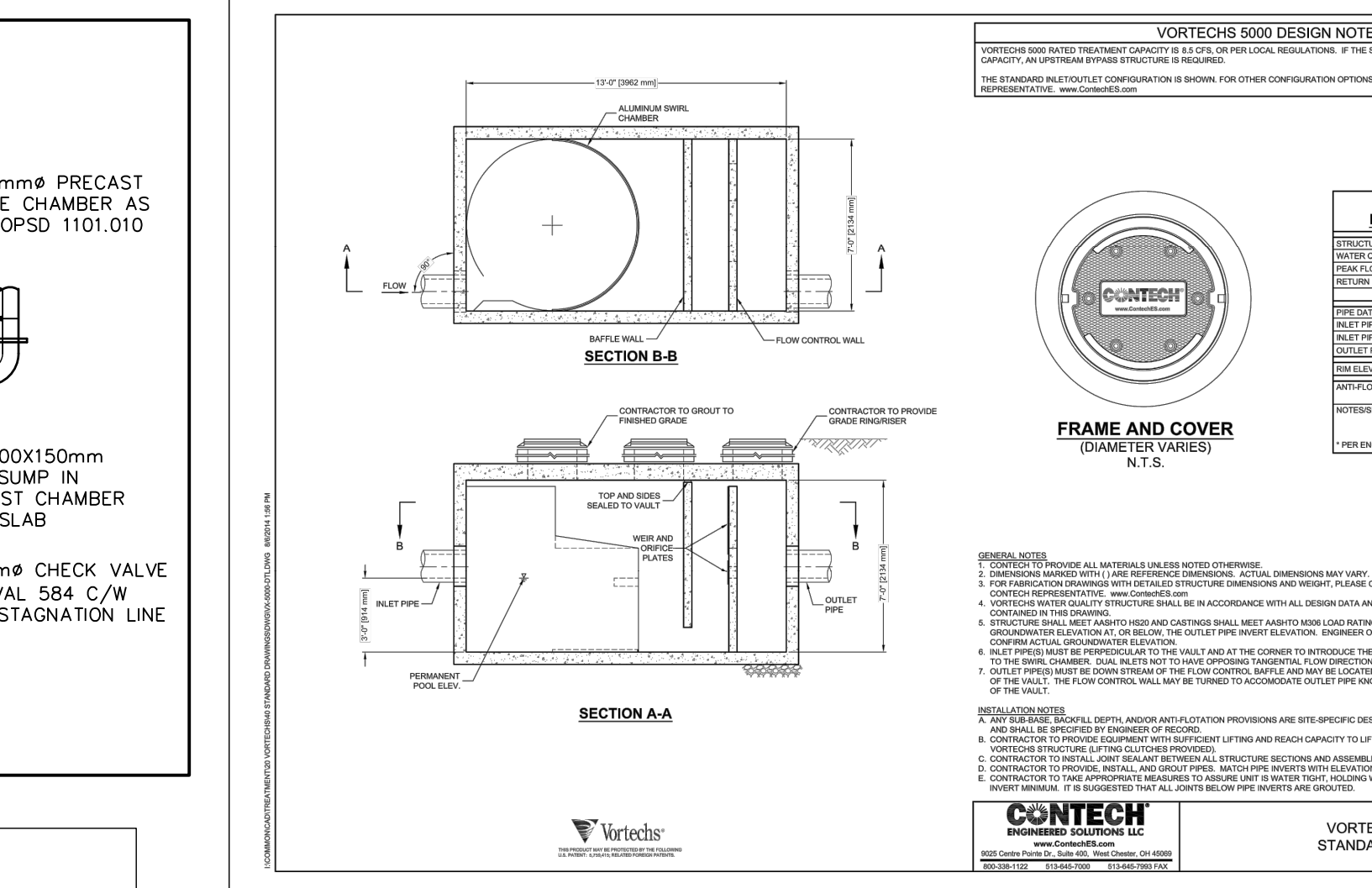
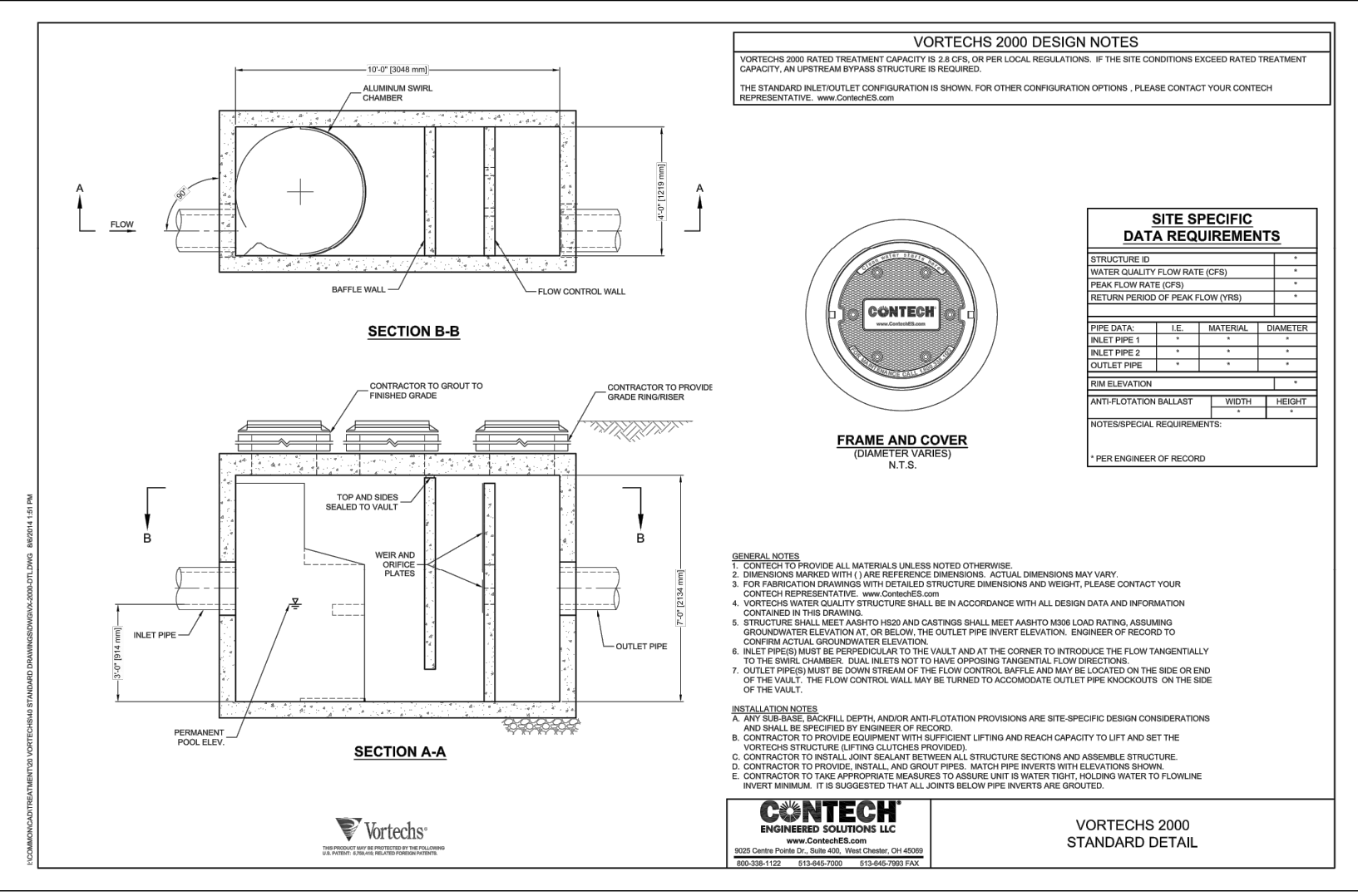
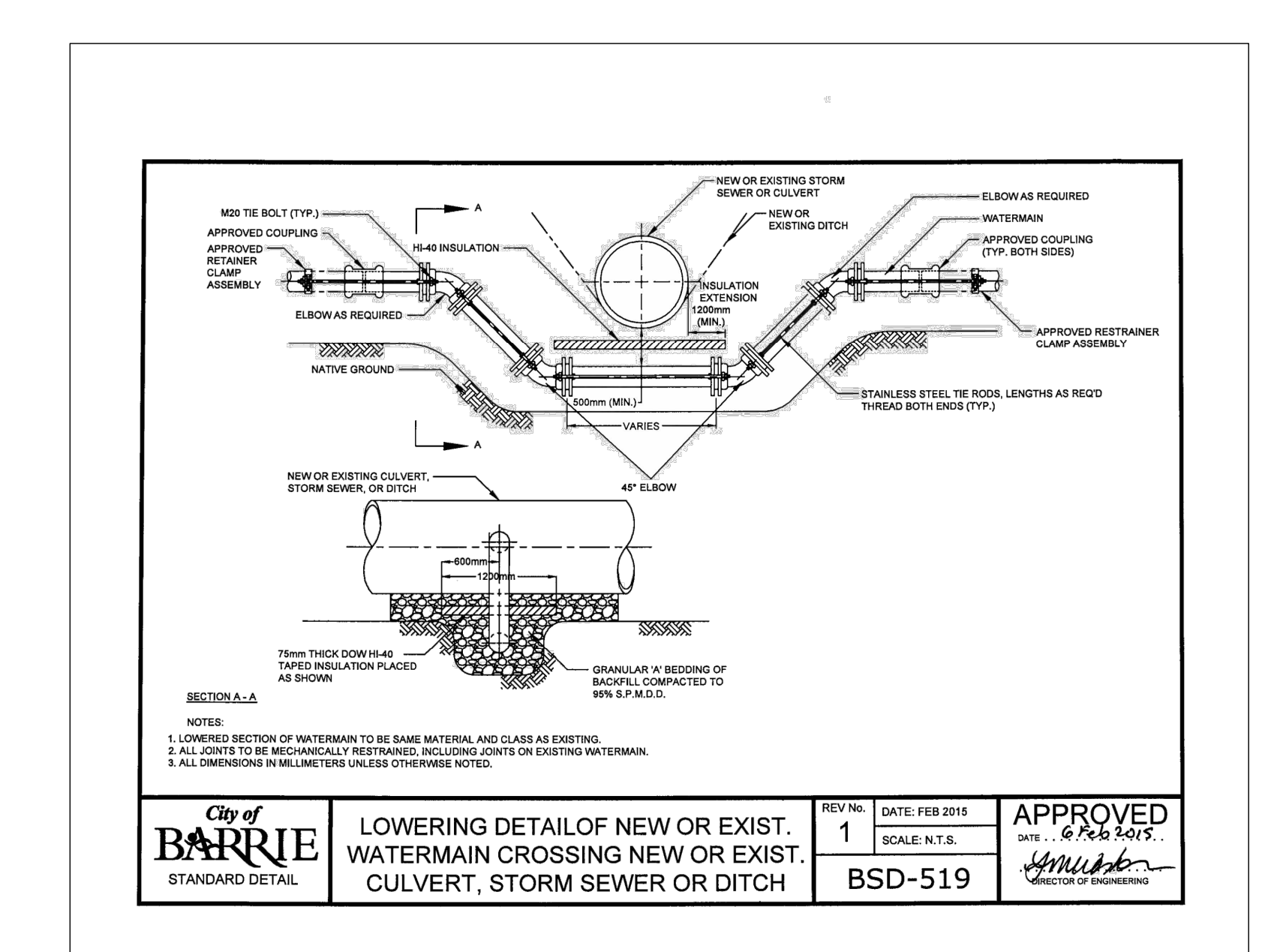
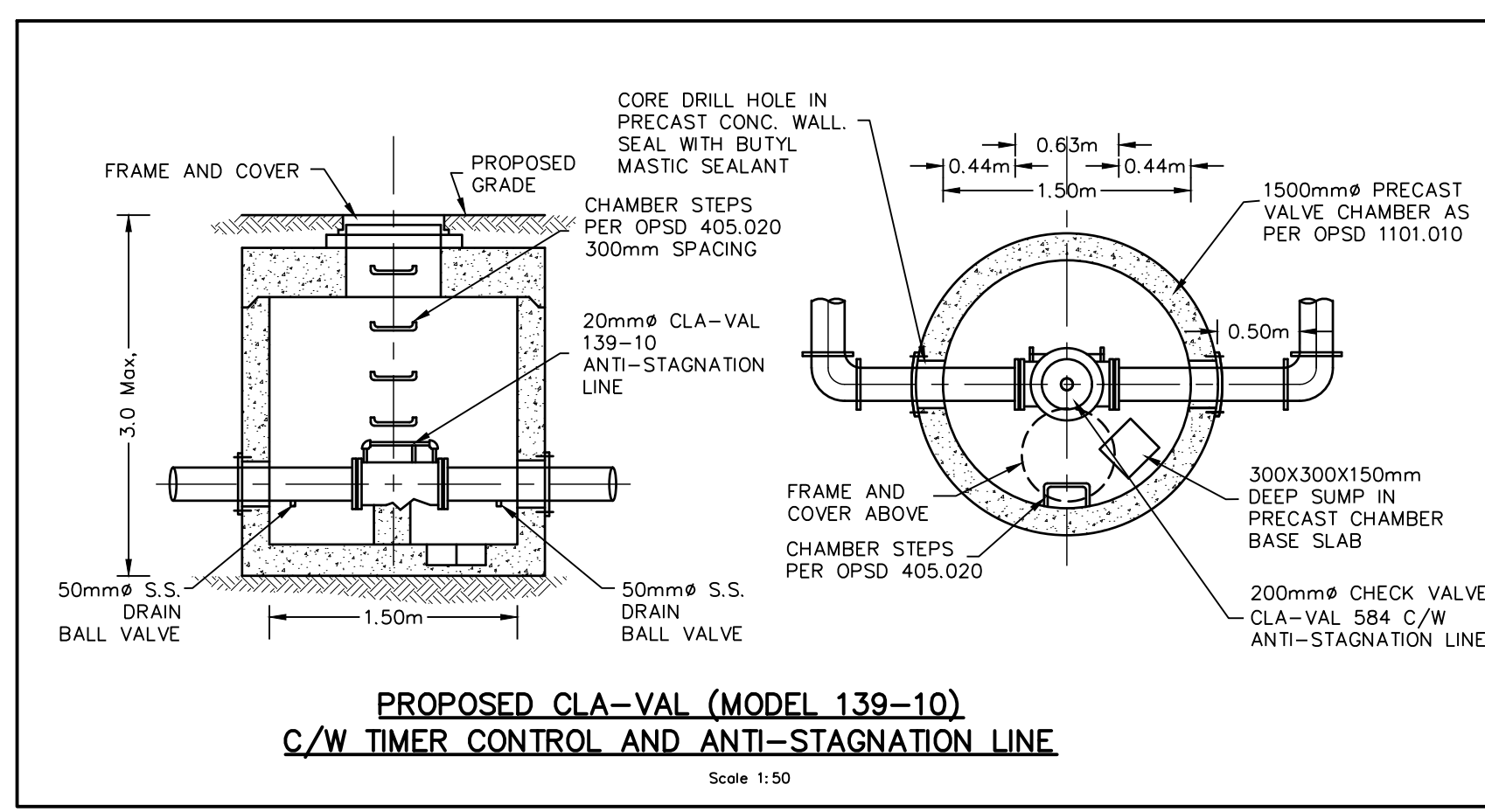
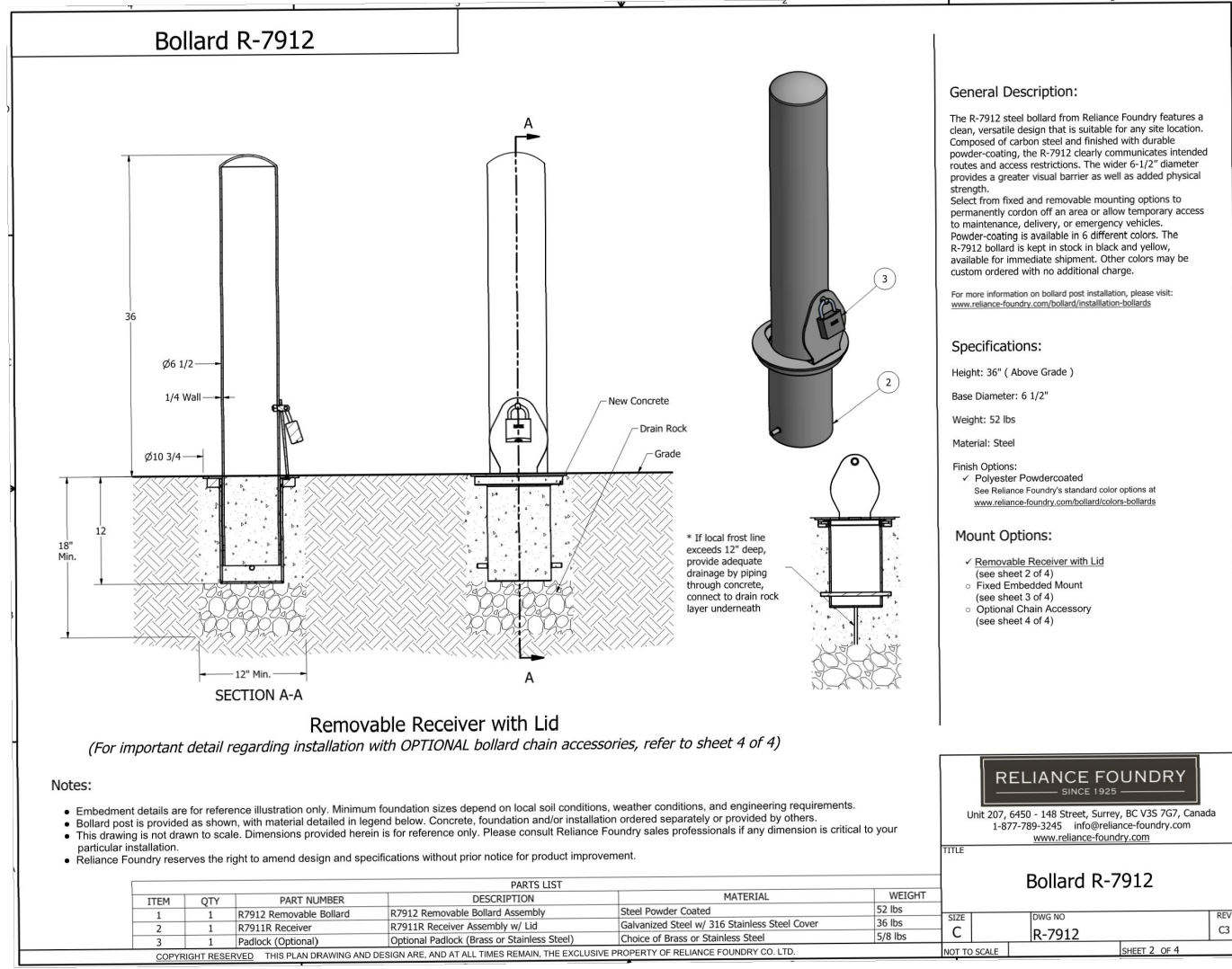


**COMMERCIAL PAVING PAVEMENT DETAIL**

CREATED: January 17, 2018  
REVISED: January 17, 2018  
FILE NAME: FIREROAD.DWG

**NOTES:**  
This cross section is intended for preliminary design purposes only. Confirm site conditions and consult with a qualified design professional or installer prior to installation.

**FIRE ACCESS ROAD**  
Turfstone Paver  
JUNILOCK  
DESIGNED TO CONNECT.



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2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.

3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.

4. DO NOT SCALE THE DRAWINGS.

5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

ELEVATIONS ARE BASED ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM, WITH HEIGHTS CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE CVG28 DATUM (1978 ADJUSTMENT) WITH GEOID MODEL HTV2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.

TM#1 - CUT DRESS EAST OF THE GRAVEL DRIVEWAY ENTRANCE TO THE 1.5 STORY FRAME DWELLING, HAVING AN ELEVATION OF 182.45m.

TM#2 - CUT CROSS AT THE BELL MH BETWEEN TWO ASPHALT DRIVEWAYS NORTH EAST OF THE SUBJECT LANDS, HAVING AN ELEVATION OF 180.12m.

TM#3 - TOP OF SIB AT THE SOUTH EAST CORNER OF THE SUBJECT LANDS HAVING AN ELEVATION OF 179.75.

TOPOGRAPHIC AND LEGAL SURVEY COMPLETED BY VAN HARTEN SURVEYING INC. ON AUGUST 24, 2019.

| No. | ISSUE                                 | DATE: MM/DD/YYYY |
|-----|---------------------------------------|------------------|
| 0   | ISSUED FOR SPA                        | 07/17/2020       |
| 1   | ISSUED FOR 2ND SUBMISSION SPA         | 03/09/2021       |
| 2   | ISSUED FOR APARTMENT BUILDING PERMIT  | 04/23/2021       |
| 3   | ISSUED FOR SHARED SERVICING AGREEMENT | 08/04/2021       |
| 4   | ISSUED FOR 3RD SUBMISSION SPA         | 09/03/2021       |

Project: RESIDENCES AT SILVER CREEK  
Drawing: DETAIL PLAN

Engineer: D.M. TONE, R.A. ALEXANDER  
City of BARRIE, PROVINCE OF ONTARIO

Project Approval: J.O.  
Town Approval: J.O.

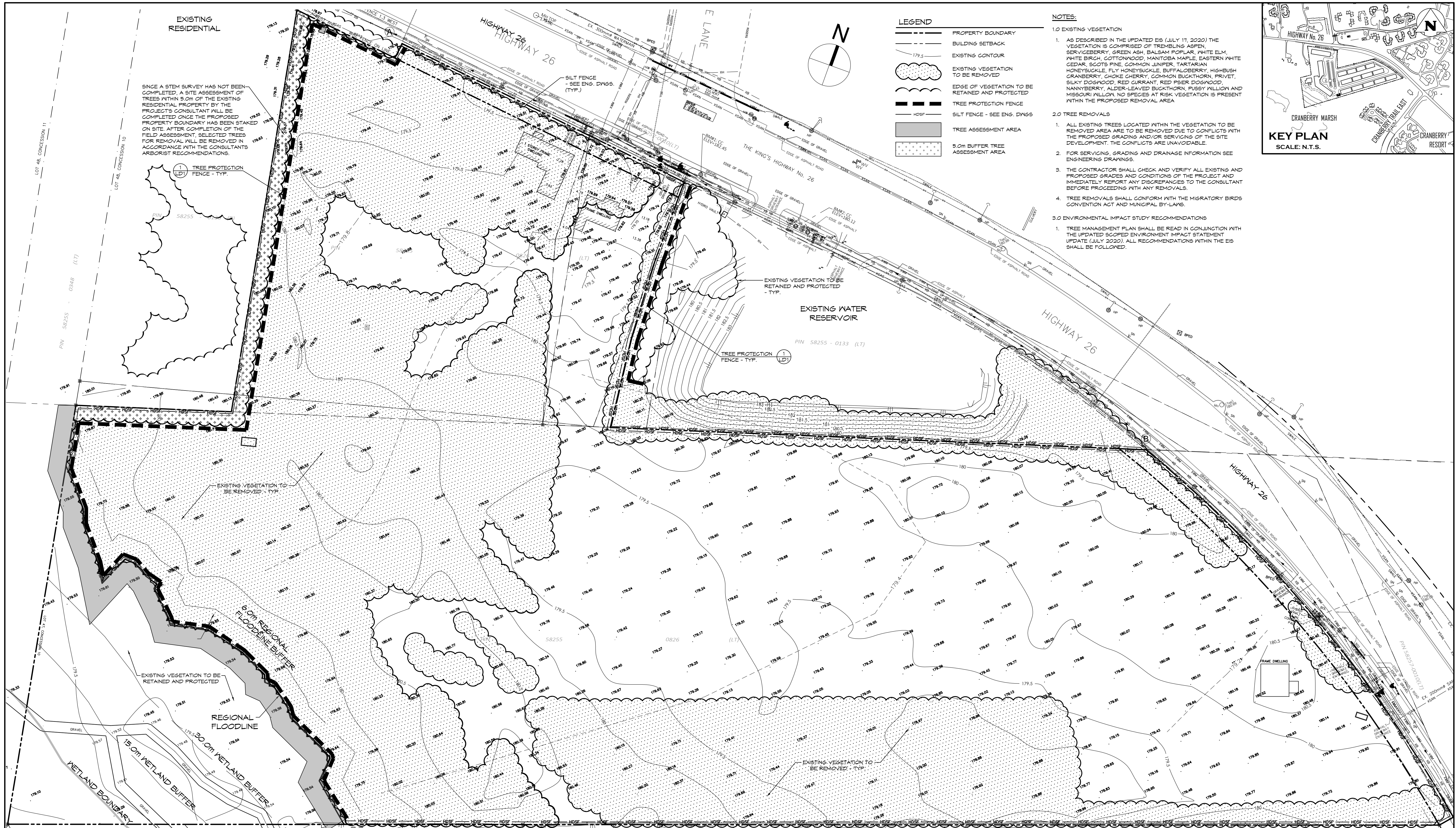
Drawn By: L.W.  
Check By: R.A.

Design By: J.O.  
Check By: D.T.

Scale: 1:10  
Drawing: 110

1790-5382

CROZIER CONSULTING ENGINEERS  
THE HARBOUREDGE BUILDING, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
WWW.CROZIER.CA  
INFO@CROZIER.CA

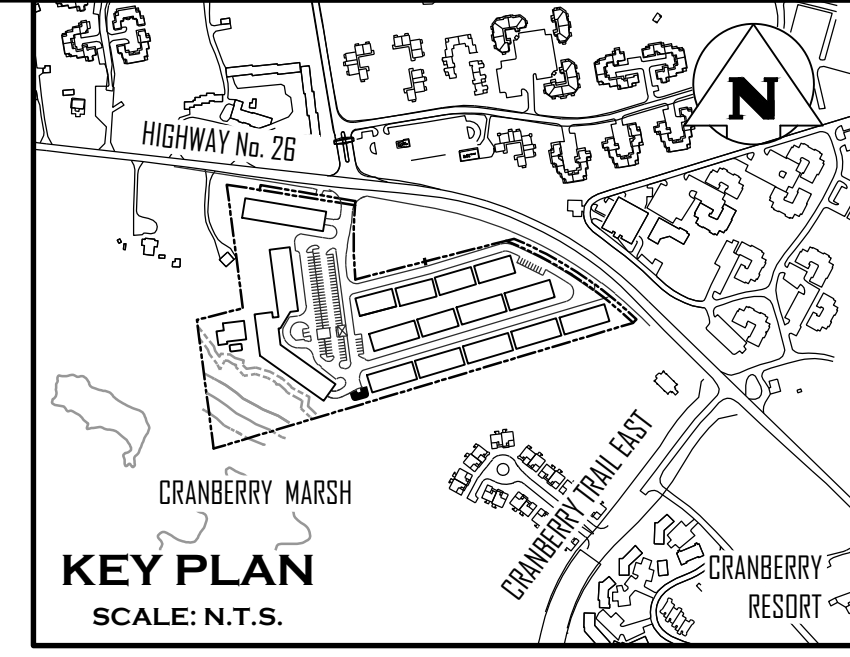


EXISTING RESIDENTIAL

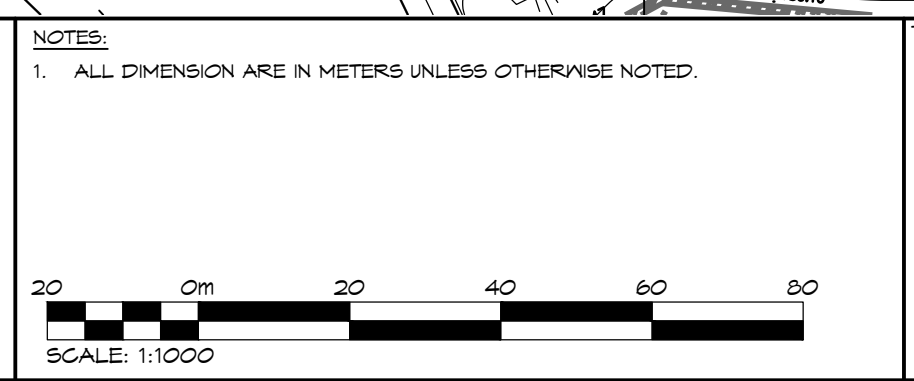
SINCE A STEM SURVEY HAS NOT BEEN COMPLETED, A SITE ASSESSMENT OF TREES WITHIN 5.0M OF THE EXISTING RESIDENTIAL PROPERTY BY THE PROJECT'S CONSULTANT WILL BE COMPLETED ONCE THE PROPOSED PROPERTY BOUNDARY HAS BEEN STAKED ON SITE. AFTER COMPLETION OF THE FIELD ASSESSMENT, SELECTED TREES FOR REMOVAL WILL BE REMOVED IN ACCORDANCE WITH THE CONSULTANTS ARBORIST RECOMMENDATIONS.

- LEGEND**
- PROPERTY BOUNDARY
  - - - BUILDING SETBACK
  - 179.5 EXISTING CONTOUR
  - EXISTING VEGETATION TO BE REMOVED
  - EDGE OF VEGETATION TO BE RETAINED AND PROTECTED
  - TREE PROTECTION FENCE
  - SILT FENCE - SEE ENG. DWGS.
  - TREE ASSESSMENT AREA
  - 5.0M BUFFER TREE ASSESSMENT AREA

- NOTES:**
- 1.0 EXISTING VEGETATION
    1. AS DESCRIBED IN THE UPDATED EIS (JULY 11, 2020) THE VEGETATION IS COMPRISED OF TREMBLING ASPEN, SERVICEBERRY, GREEN ASH, BALSAM POPLAR, WHITE ELM, WHITE BIRCH, COTTONWOOD, MANITOBA MAPLE, EASTERN WHITE CEDAR, SCOTS PINE, COMMON JUNIPER, TARTARIAN HONEYSUCKLE, FLY HONEYSUCKLE, BUFFALO BERRY, HIGHBUSH CRANBERRY, CHOKO CHERRY, COMMON BUCKTHORN, PRIVET, SILKY DOGWOOD, RED CURRANT, RED OSIER DOGWOOD, NANNYBERRY, ALDER-LEAVED BUCKTHORN, PUSSY WILLOW AND MISSOURI WILLOW. NO SPECIES AT RISK VEGETATION IS PRESENT WITHIN THE PROPOSED REMOVAL AREA.
  - 2.0 TREE REMOVALS
    1. ALL EXISTING TREES LOCATED WITHIN THE VEGETATION TO BE REMOVED AREA ARE TO BE REMOVED DUE TO CONFLICTS WITH THE PROPOSED GRADING AND/OR SERVICES OF THE SITE DEVELOPMENT. THE CONFLICTS ARE UNAVOIDABLE.
    2. FOR SERVICES, GRADING AND DRAINAGE INFORMATION SEE ENGINEERING DRAWINGS.
    3. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING AND PROPOSED GRADES AND CONDITIONS OF THE PROJECT AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH ANY REMOVALS.
    4. TREE REMOVALS SHALL CONFORM WITH THE MIGRATORY BIRDS CONVENTION ACT AND MUNICIPAL BY-LAWS.
  - 3.0 ENVIRONMENTAL IMPACT STUDY RECOMMENDATIONS
    1. TREE MANAGEMENT PLAN SHALL BE READ IN CONJUNCTION WITH THE UPDATED SCOPED ENVIRONMENT IMPACT STATEMENT UPDATE (JULY 2020). ALL RECOMMENDATIONS WITHIN THE EIS SHALL BE FOLLOWED.



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



| No. | ISSUE                                 | DATE: MM/DD/YYYY |
|-----|---------------------------------------|------------------|
| 1   | ISSUED FOR FIRST SITE PLAN SUBMISSION | 07/11/2020       |
| 2   | ISSUED FOR 2nd SUBMISSION SPA         | 03/10/2021       |
| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

DATE: MM/DD/YYYY

LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECT

PROJECT

DRAWING

**RESIDENCE AT SILVERCREEK  
TOWN OF COLLINGWOOD**

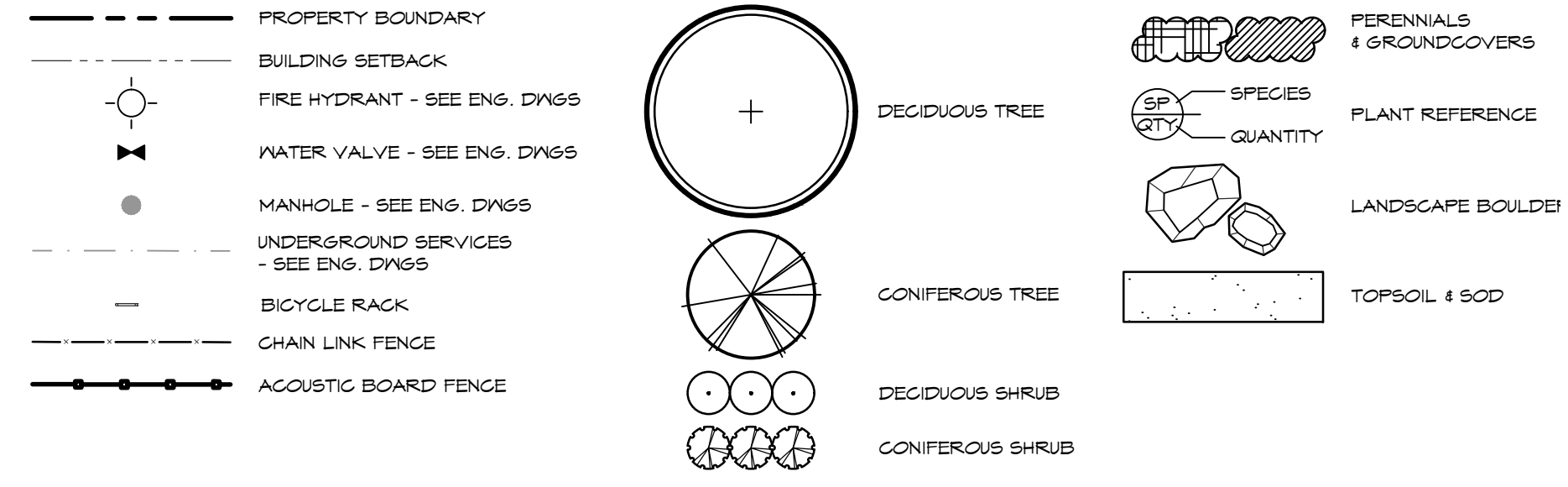
**TREE MANAGEMENT PLAN**

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705-446-3510 T  
705-446-3520 F  
WWW.CF-CROZIER.CA  
INFO@CF-CROZIER.CA

Drawn By: K.J.N. Design By: K.J.N. Project: 1790-5382

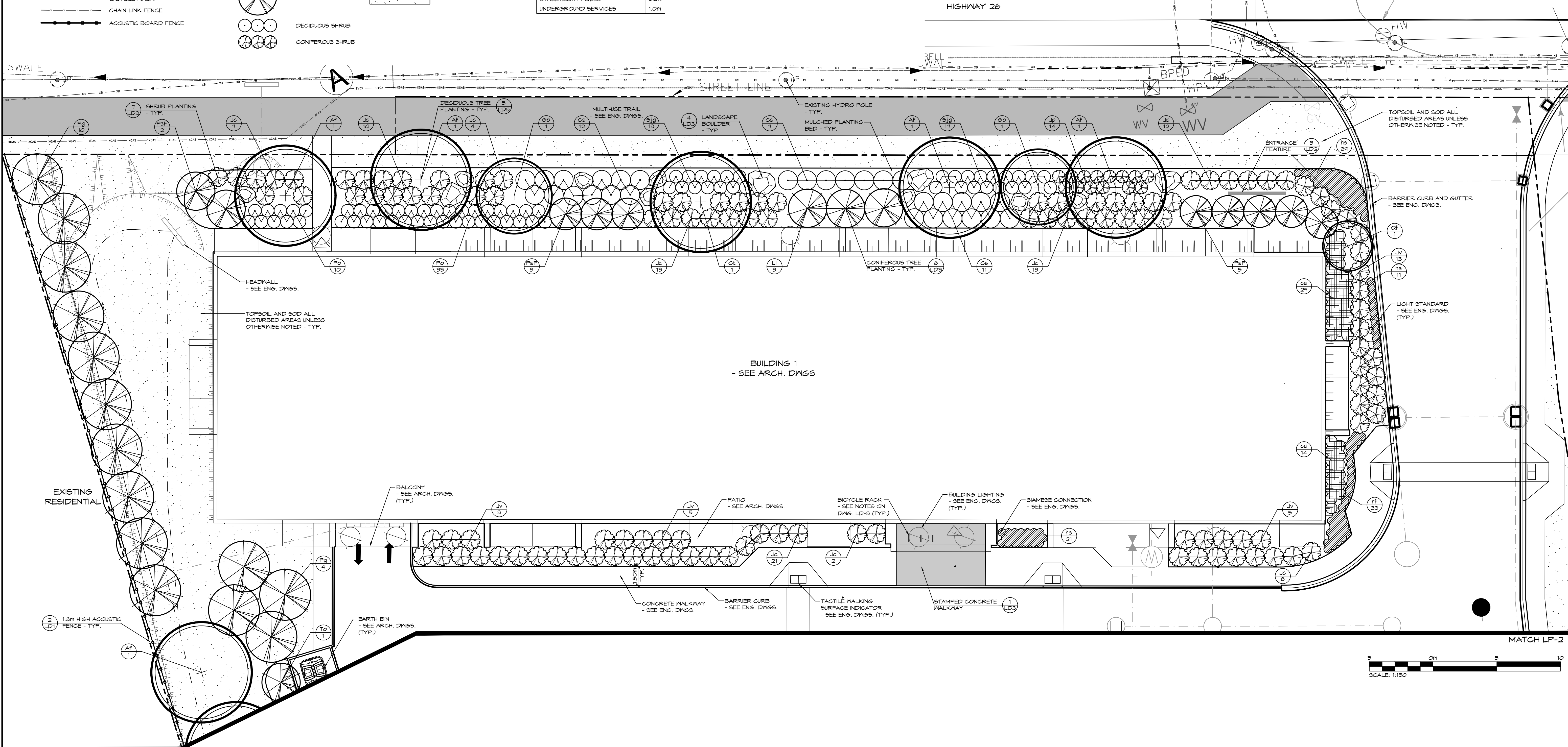
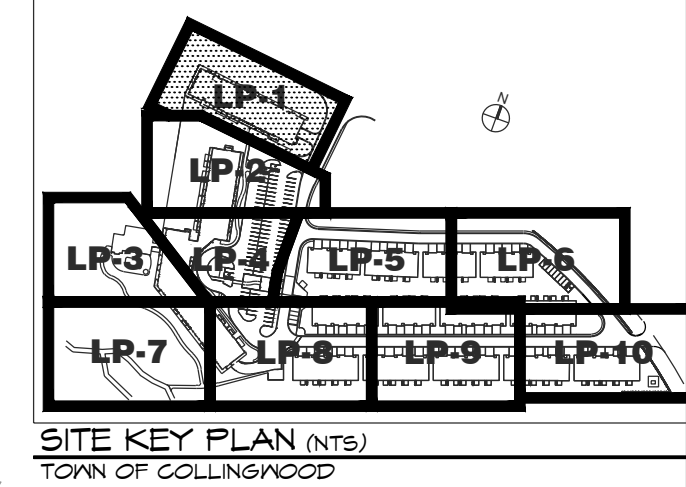
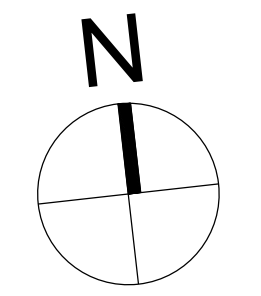
Check By: K.J.N. Check By: Scale: 1:500 Drawing: TM-1

**LEGEND**



- NOTES:**
- FOR PLANT IDENTIFICATION REFER TO PLANT LIST ON DRAWING LD-1.
  - FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-3.
  - TREE PITS OR PLANTING BEDS WITHIN 1.0M OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
  - MINIMUM CLEARANCES FOR TREES ARE AS FOLLOWS:

| MINIMUM TREE CLEARANCES |      |
|-------------------------|------|
| FIRE HYDRANT            | 3.0m |
| DRIVEWAYS               | 2.0m |
| HYDRO TRANSFORMERS      | 3.0m |
| BELL OR CABLE PEDESTALS | 1.0m |
| STREETLIGHT POLES       | 5.0m |
| UNDERGROUND SERVICES    | 1.0m |



MATCH LP-2

MATCH LP-2

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- DO NOT SCALE THE DRAWINGS.
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**NOTES:**

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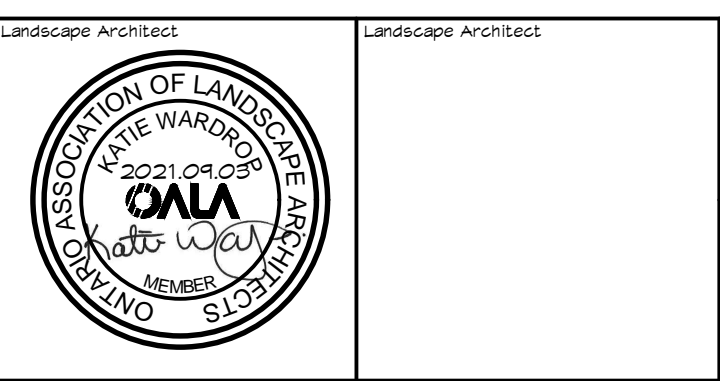
| No. | ISSUE                                 | DATE: MM/DD/YYYY |
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| 2   | ISSUED FOR 2nd SUBMISSION SPA         | 03/10/2021       |
| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

Town

Landscape Architect

Landscape Architect

Project

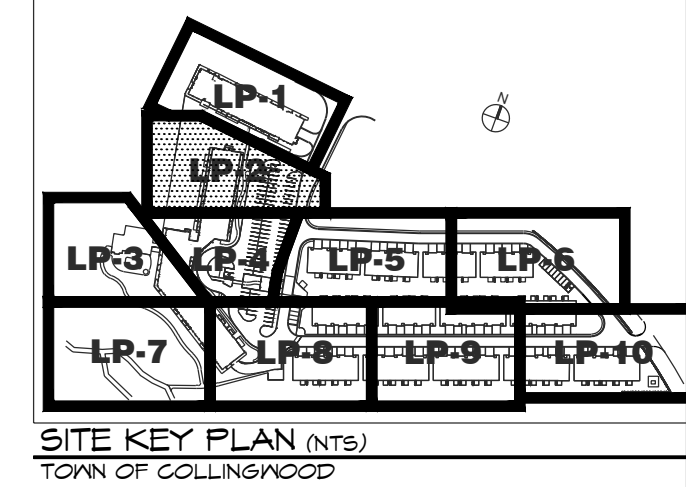


**RESIDENCE AT SILVERCREEK**  
TOWN OF COLLINGWOOD

LANDSCAPE PLAN

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
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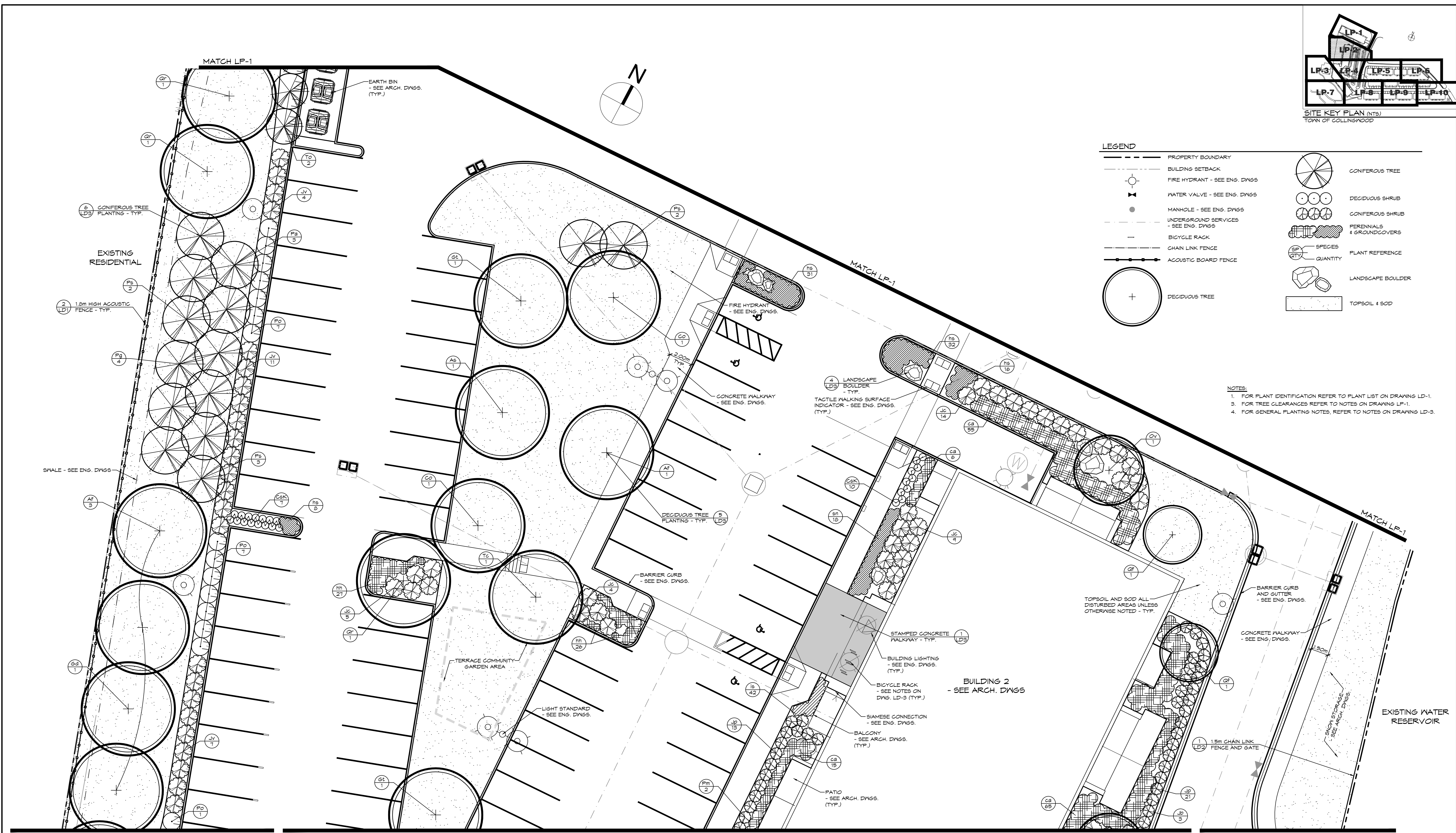
Drawn By: R.M. / A.M. Design By: K.J.L. Project: 1790-5382  
Check By: K.J.L. Scale: 1:150 Drawing: LP-1



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD

| LEGEND |                                       |
|--------|---------------------------------------|
|        | PROPERTY BOUNDARY                     |
|        | BUILDING SETBACK                      |
|        | FIRE HYDRANT - SEE ENG. DWGS.         |
|        | WATER VALVE - SEE ENG. DWGS.          |
|        | MANHOLE - SEE ENG. DWGS.              |
|        | UNDERGROUND SERVICES - SEE ENG. DWGS. |
|        | BICYCLE RACK                          |
|        | CHAIN LINK FENCE                      |
|        | ACOUSTIC BOARD FENCE                  |
|        | DECIDUOUS TREE                        |
|        | CONIFEROUS TREE                       |
|        | DECIDUOUS SHRUB                       |
|        | CONIFEROUS SHRUB                      |
|        | PERENNIALS & GROUNDCOVERS             |
|        | SPECIES                               |
|        | PLANT REFERENCE                       |
|        | QUANTITY                              |
|        | LANDSCAPE BOULDER                     |
|        | TOPSOIL & SOD                         |

- NOTES:
1. FOR PLANT IDENTIFICATION REFER TO PLANT LIST ON DRAWING LP-1.
  2. FOR TREE CLEARANCES REFER TO NOTES ON DRAWING LP-1.
  3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LP-3.



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SCALE: 1:150

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| 2   | ISSUED FOR 2nd SUBMISSION SPA         | 03/10/2021       |
| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

Professional Engineer Stamp: **ASSOCIATION OF LANDSCAPE ARCHITECTS**, **ONTARIO**, **MEMBER**, **WALTER WATSON**, **2021.04.03**

Project: **RESIDENCE AT SILVERCREEK TOWN OF COLLINGWOOD**

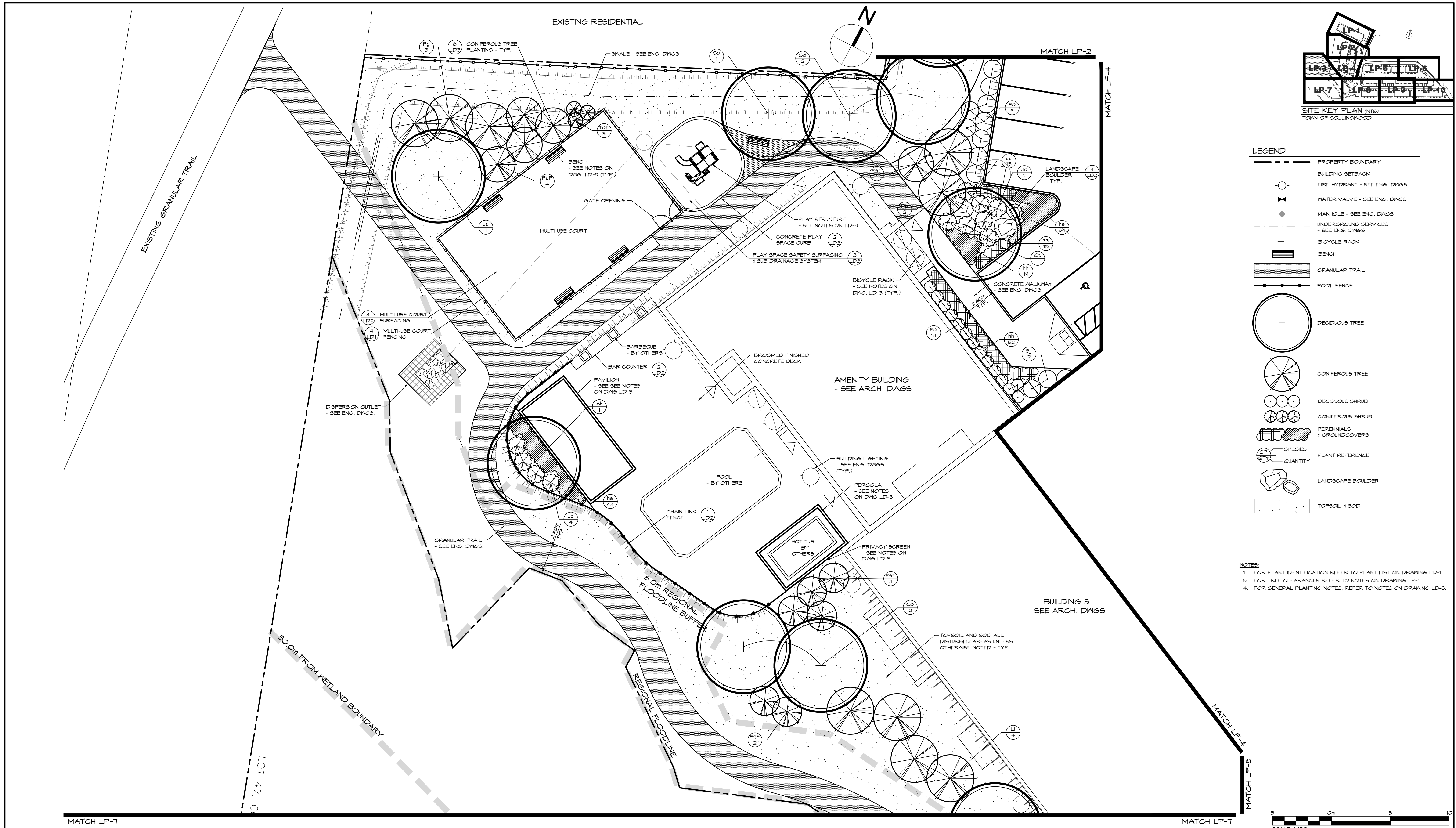
Drawing: **LANDSCAPE PLAN**

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREDGE BUILDING, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
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Drawn By: **R.M. / A.M.** Design By: **K.M.** Project: **1790-5382**

Check By: **K.M.** Check By: **K.M.** Scale: **1:150** Drawing: **LP-2**



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| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

Professional Engineer Stamp: **LANDSCAPE ARCHITECT**, **2021.04.03**, **ALA**, **Collingwood**, **MEMBER**, **51026**

Project: **RESIDENCE AT SILVERCREEK TOWN OF COLLINGWOOD**

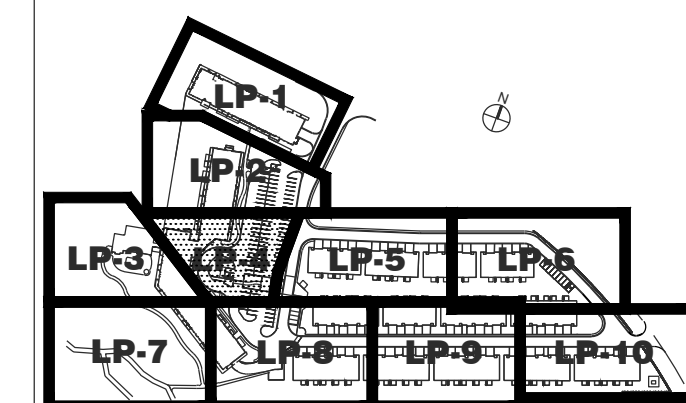
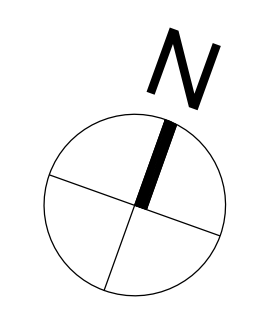
Drawing: **LANDSCAPE PLAN**

**CROZIER CONSULTING ENGINEERS**

The HarbourEdge Building, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
705-446-3510 T  
705-446-3520 F  
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INFO@CFCROZIER.CA

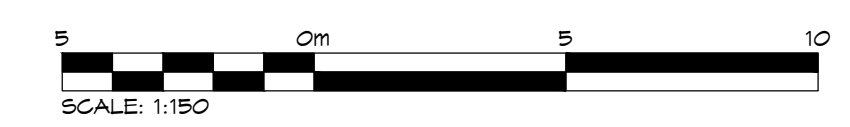
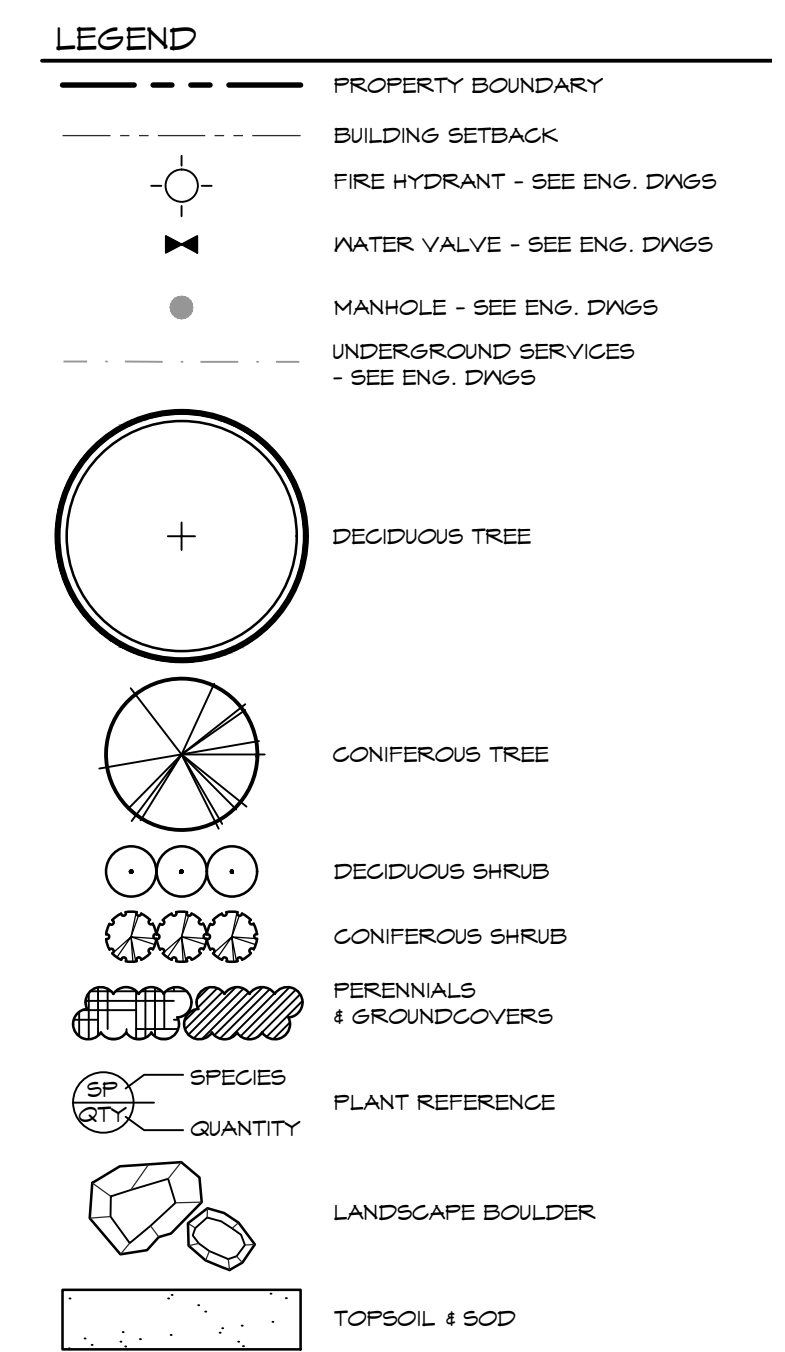
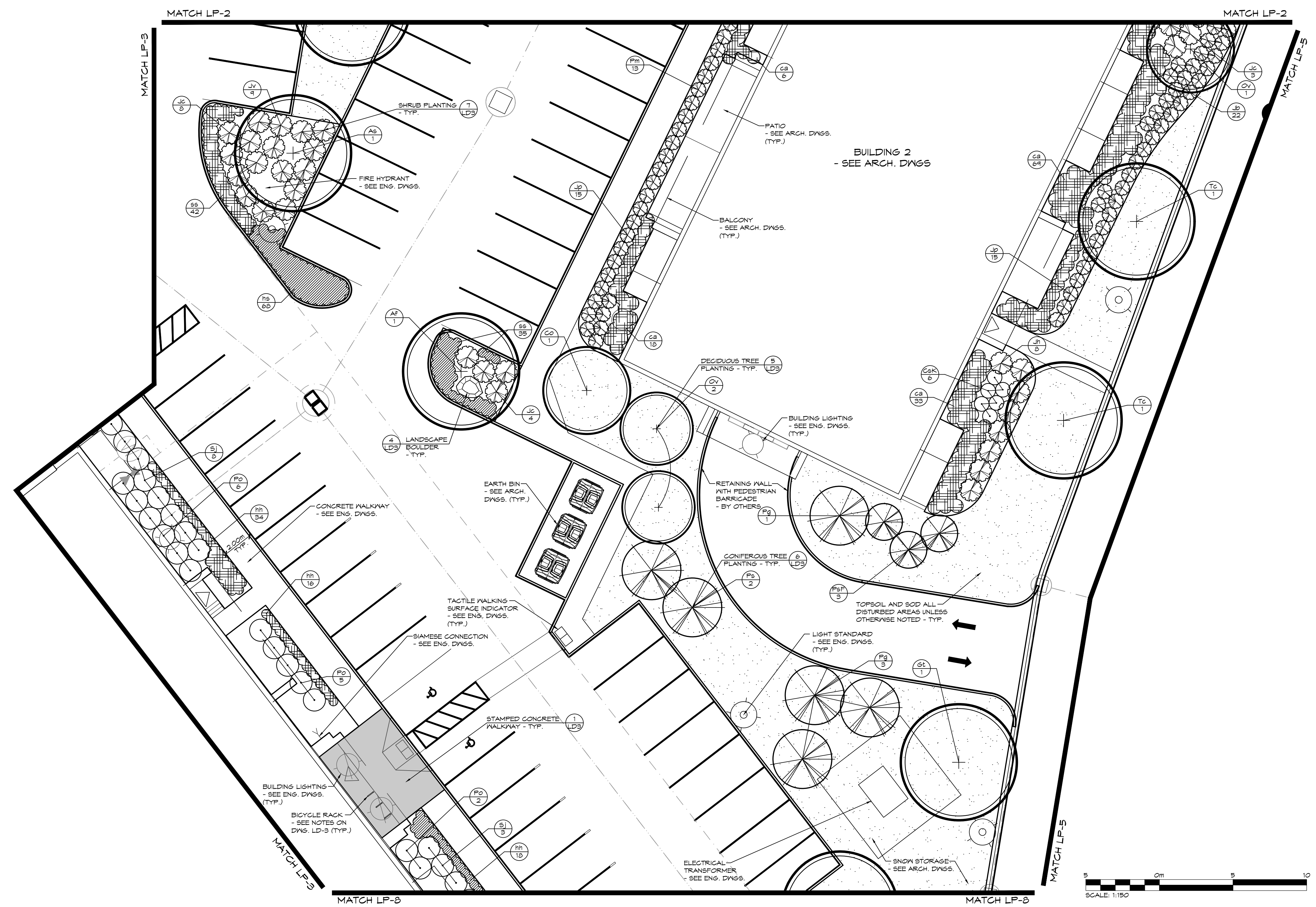
Drawn By: **R.M. / A.M.** Design By: **K.J.L.** Project: **1790-5382**

Check By: **K.J.L.** Scale: **1:150** Drawing: **LP-3**



SITE KEY PLAN (NTS)  
TOWN OF COLLINGSWOOD

- NOTES:
- FOR PLANT IDENTIFICATION REFER TO PLANT LIST ON DRAWING LP-1.
  - FOR TREE CLEARANCES REFER TO NOTES ON DRAWING LP-1.
  - FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LP-3.



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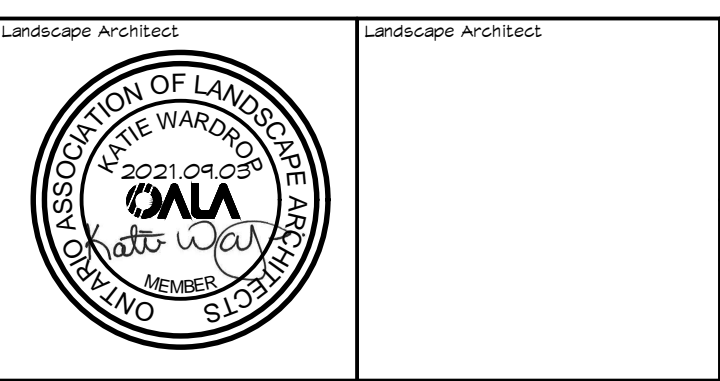
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| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

|                     |  |
|---------------------|--|
| Town                |  |
| Landscape Architect |  |
| Project             |  |
| Drawing             |  |



RESIDENCE AT SILVERCREEK  
TOWN OF COLLINGSWOOD

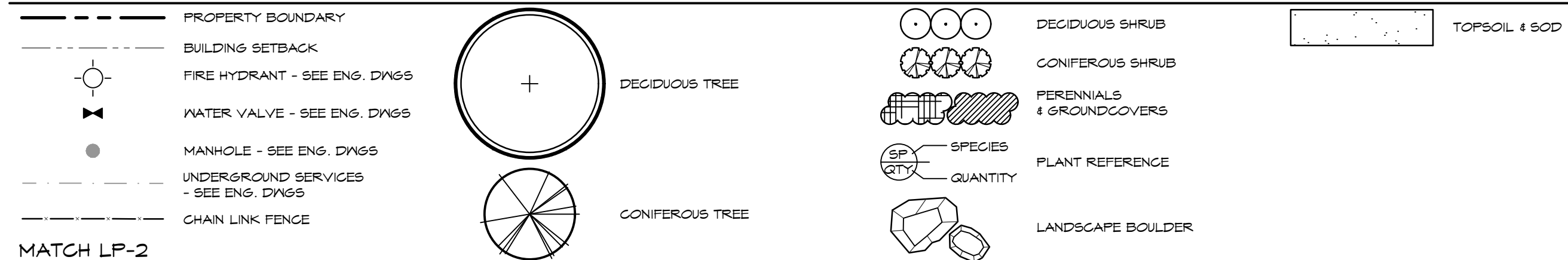
LANDSCAPE PLAN

**CROZIER**  
CONSULTING ENGINEERS

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
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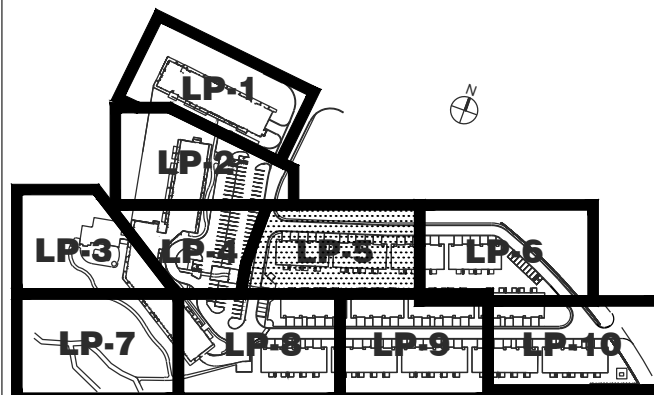
|          |             |           |      |         |           |
|----------|-------------|-----------|------|---------|-----------|
| Drawn By | R.M. / A.M. | Design By | K.M. | Project | 1790-5382 |
| Check By | K.M.        | Check By  | H.M. | Scale   | 1:150     |
|          |             |           |      | Drawing | LP-4      |

**LEGEND**

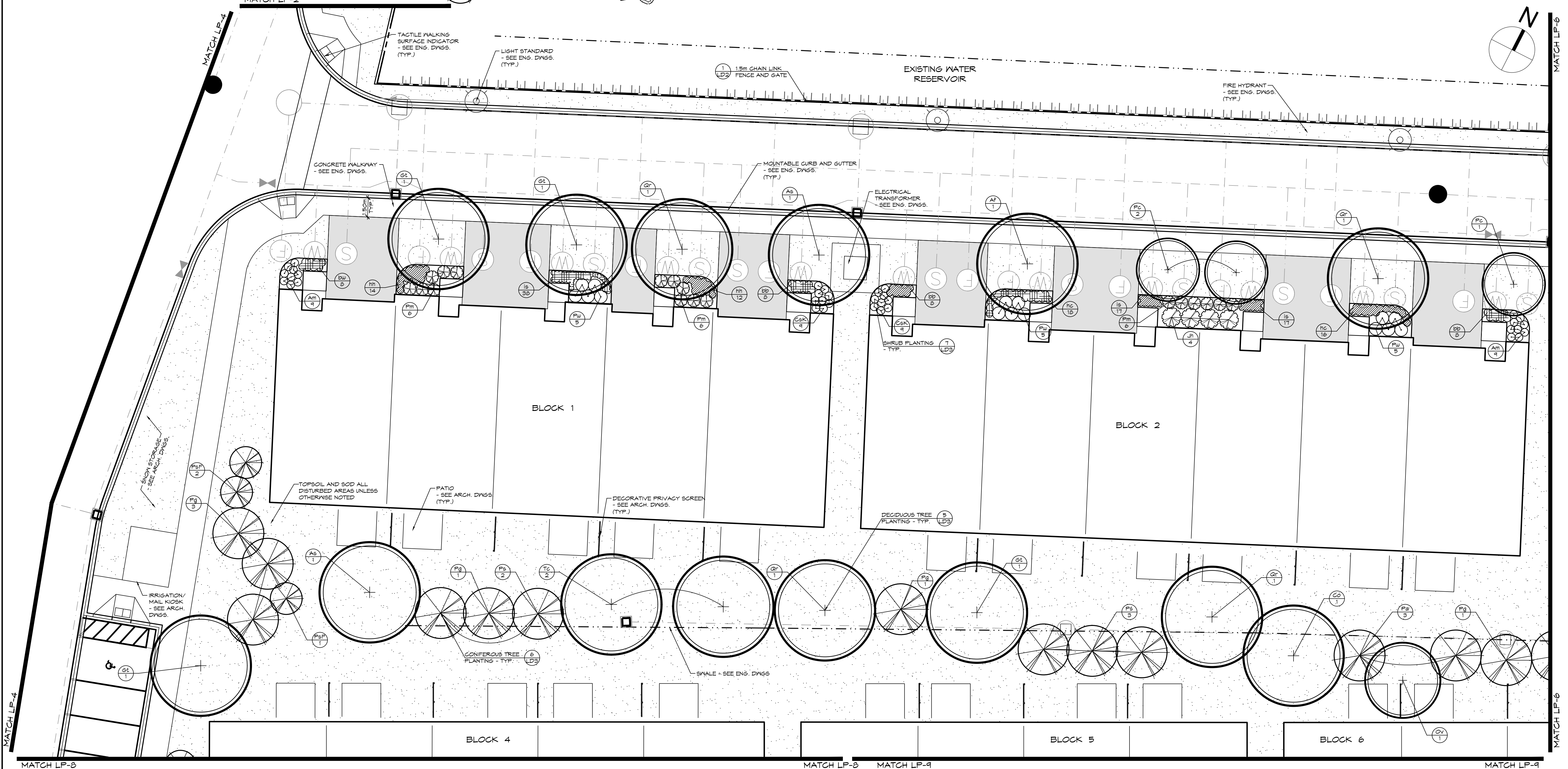


**NOTES:**

1. FOR PLANT IDENTIFICATION REFER TO PLANT LIST ON DRAWING LD-1.
2. FOR TREE CLEARANCES REFER TO NOTES ON DRAWING LP-1.
3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-3.



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD



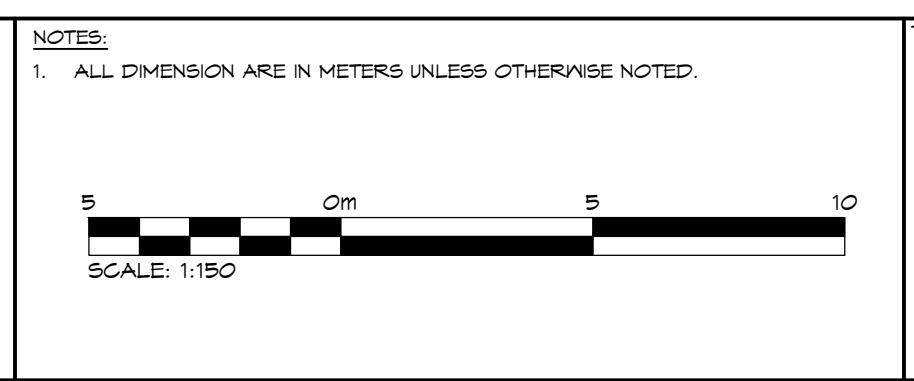
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| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

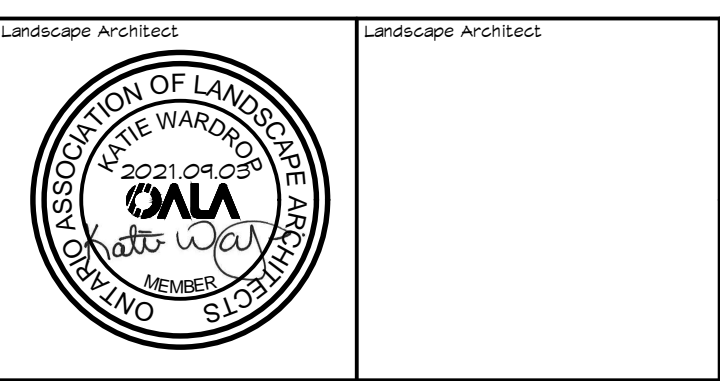
Town

Landscape Architect

Landscape Architect

Project

Drawing



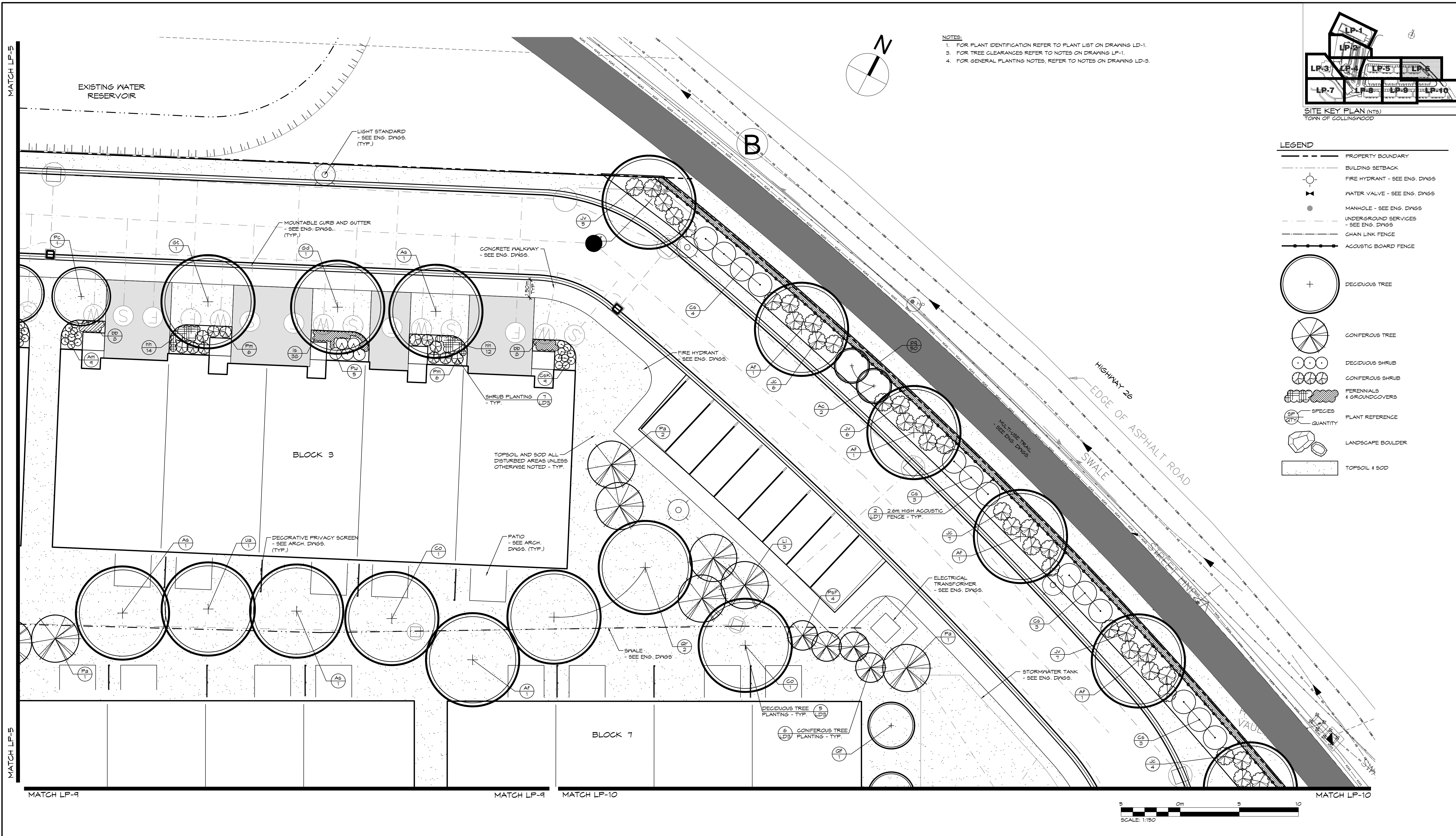
**RESIDENCE AT SILVERCREEK**  
TOWN OF COLLINGWOOD

**LANDSCAPE PLAN**

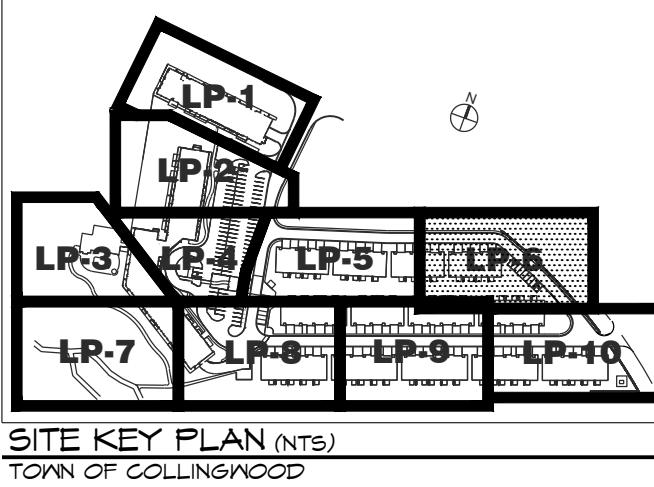
**CROZIER CONSULTING ENGINEERS**

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Drawn By: R.M. / A.M. Design By: K.J. Project: 1790-5382  
Check By: K.J. Check By: H.M. Scale: 1:150 Drawing: LP-5



NOTES:  
 1. FOR PLANT IDENTIFICATION REFER TO PLANT LIST ON DRAWING LP-1.  
 2. FOR TREE CLEARANCES REFER TO NOTES ON DRAWING LP-1.  
 3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LP-3.



**LEGEND**

|  |                                       |
|--|---------------------------------------|
|  | PROPERTY BOUNDARY                     |
|  | BUILDING SETBACK                      |
|  | FIRE HYDRANT - SEE ENG. DWGS.         |
|  | WATER VALVE - SEE ENG. DWGS.          |
|  | MANHOLE - SEE ENG. DWGS.              |
|  | UNDERGROUND SERVICES - SEE ENG. DWGS. |
|  | CHAIN LINK FENCE                      |
|  | ACOUSTIC BOARD FENCE                  |
|  | DECIDUOUS TREE                        |
|  | CONIFEROUS TREE                       |
|  | DECIDUOUS SHRUB                       |
|  | CONIFEROUS SHRUB                      |
|  | PERENNIALS & GROUNDCOVERS             |
|  | SPECIES QUANTITY                      |
|  | LANDSCAPE BOULDER                     |
|  | TOPSOIL & SOD                         |

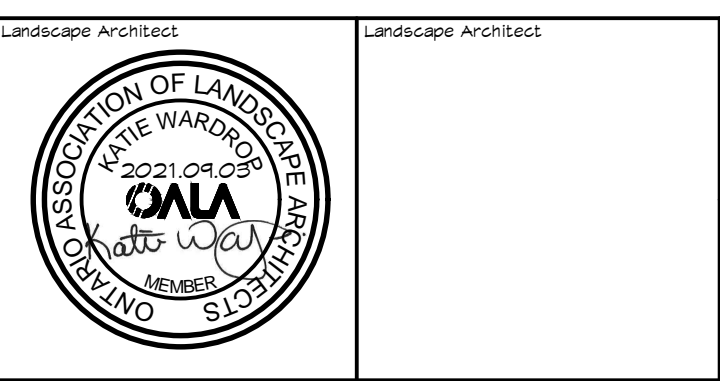


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| 1   | ISSUED FOR FIRST SITE PLAN SUBMISSION | 07/11/2020       |
| 2   | ISSUED FOR 2nd SUBMISSION SPA         | 03/10/2021       |
| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

Drawn By: R.M. / A.M.  
 Design By: K.J.L.  
 Check By: K.J.L.  
 Check By: H.M.

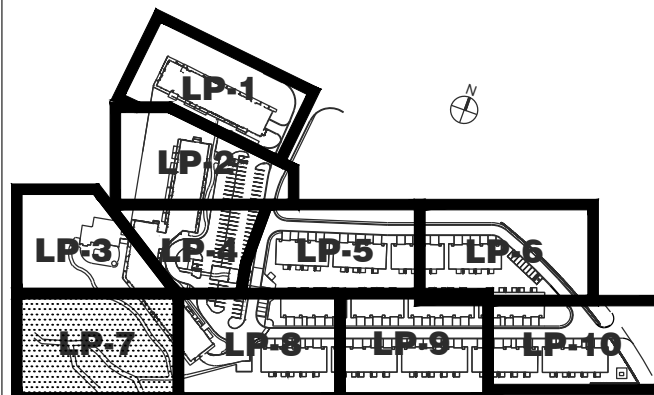
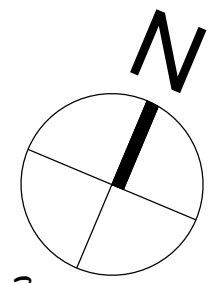


Project: RESIDENCE AT SILVERCREEK  
TOWN OF COLLINGWOOD  
 Drawing: LANDSCAPE PLAN

**CROZIER CONSULTING ENGINEERS**  
 THE HARBOUREDGE BUILDING, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
 705-446-3510 T 705-446-3520 F  
 WWW.CFCROZIER.CA INFO@CFCROZIER.CA

Project: 1790-5382  
 Scale: 1:150  
 Drawing: LP-6

- NOTES:
1. FOR PLANT IDENTIFICATION REFER TO PLANT LIST ON DRAWING LD-1.
  3. FOR TREE CLEARANCES REFER TO NOTES ON DRAWING LP-1.
  4. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-3.



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD

MATCH LP-3

MATCH LP-3

MATCH LP-8

LEGEND

|  |                         |
|--|-------------------------|
|  | PROPERTY BOUNDARY       |
|  | BUILDING SETBACK        |
|  | GRANULAR TRAIL          |
|  | DECIDUOUS TREE          |
|  | CONIFEROUS TREE         |
|  | SPECIES PLANT REFERENCE |
|  | QUANTITY                |
|  | TOPSOIL & SOD           |



C

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4. DO NOT SCALE THE DRAWINGS.

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SCALE: 1:150

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| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |
|     |                                       |                  |
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| No. | ISSUE | DATE: MM/DD/YYYY |
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Landscape Architect

Landscape Architect

Project: RESIDENCE AT SILVERCREEK  
TOWN OF COLLINGWOOD

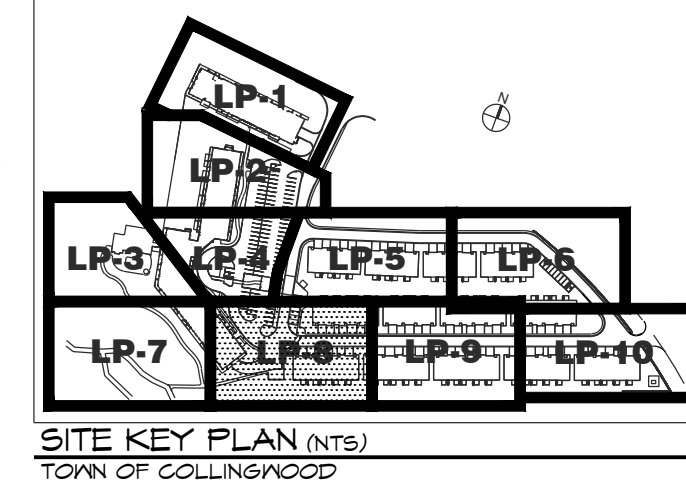
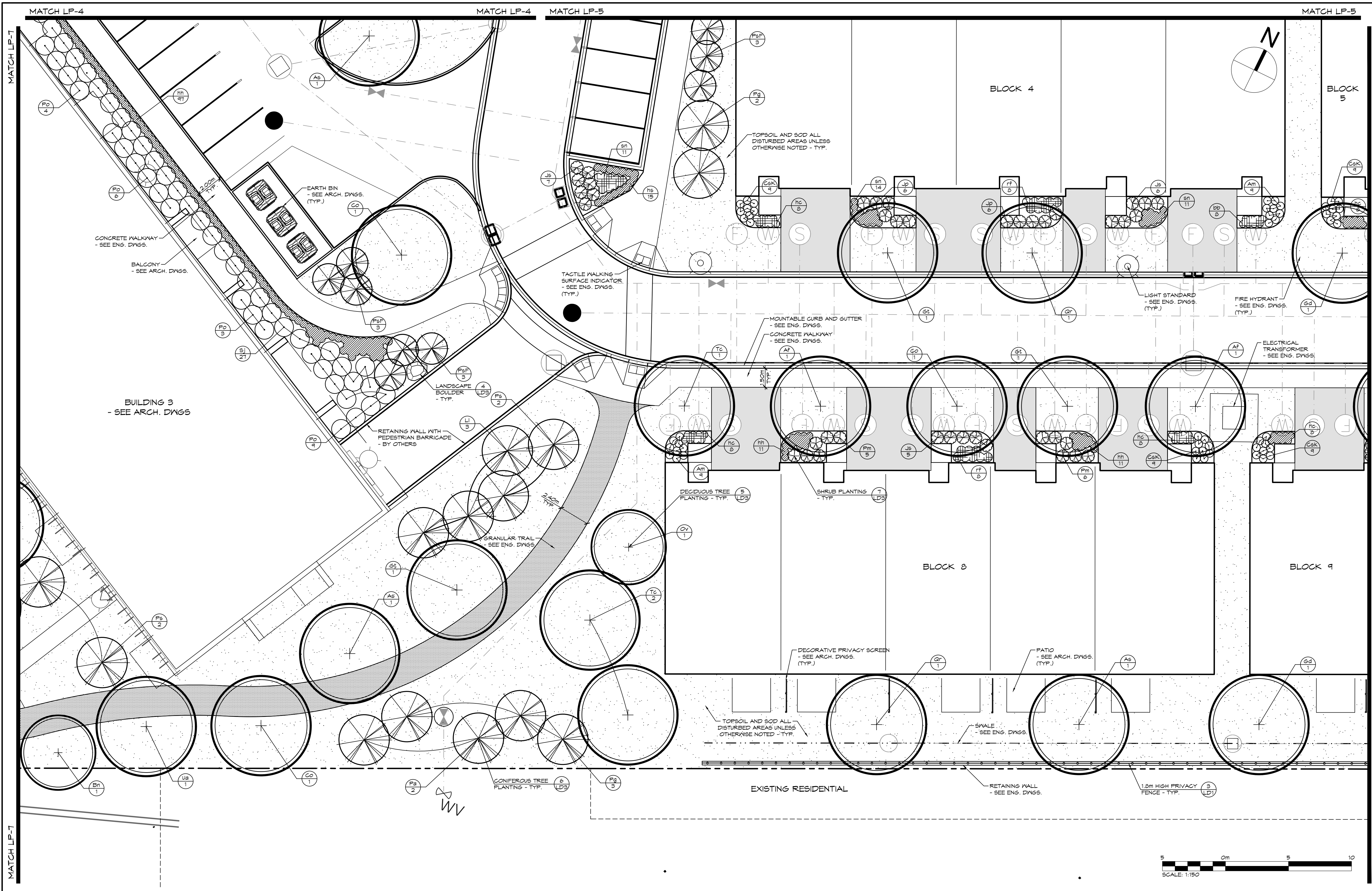
Drawing: LANDSCAPE PLAN

**CROZIER**  
CONSULTING ENGINEERS

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705-446-3510 T  
705-446-3520 F  
WWW.CFCROZIER.CA  
INFO@CFCROZIER.CA

Drawn By: R.M. / A.M. Design By: K.J.W. Project: 1790-5382

Check By: K.J.W. Check By: Scale: 1:150 Drawing: LP-7



- LEGEND**
- PROPERTY BOUNDARY
  - BUILDING SETBACK
  - FIRE HYDRANT - SEE ENG. DWGS
  - WATER VALVE - SEE ENG. DWGS
  - MANHOLE - SEE ENG. DWGS
  - UNDERGROUND SERVICES - SEE ENG. DWGS
  - GRANULAR TRAIL
  - PRIVACY FENCE
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - DECIDUOUS SHRUB
  - CONIFEROUS SHRUB
  - PERENNIALS & GROUNDCOVERS
  - SPECIES
  - QUANTITY
  - PLANT REFERENCE
  - LANDSCAPE BOULDER
  - TOPSOIL & SOD

- NOTES:**
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  2. FOR TREE CLEARANCES REFER TO NOTES ON DRAWING LP-1.
  3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-3.



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| 2   | ISSUED FOR 2nd SUBMISSION SPA         | 03/10/2021       |
| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

Landscape Architect

Landscape Architect

Project: **RESIDENCE AT SILVERCREEK TOWN OF COLLINGSWOOD**

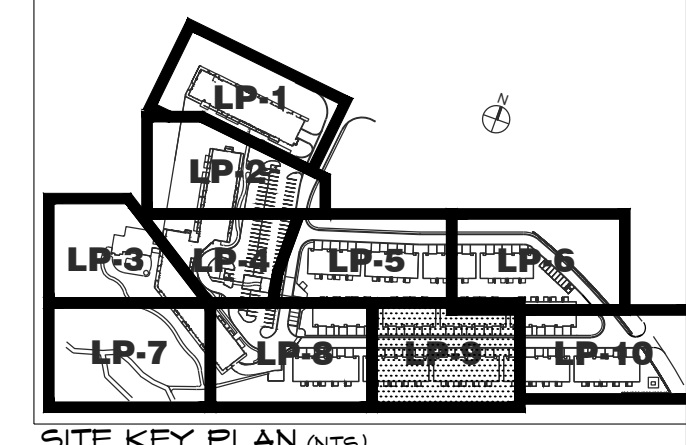
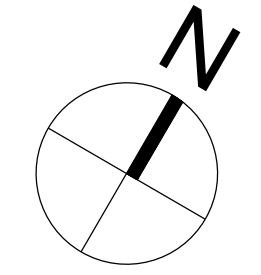
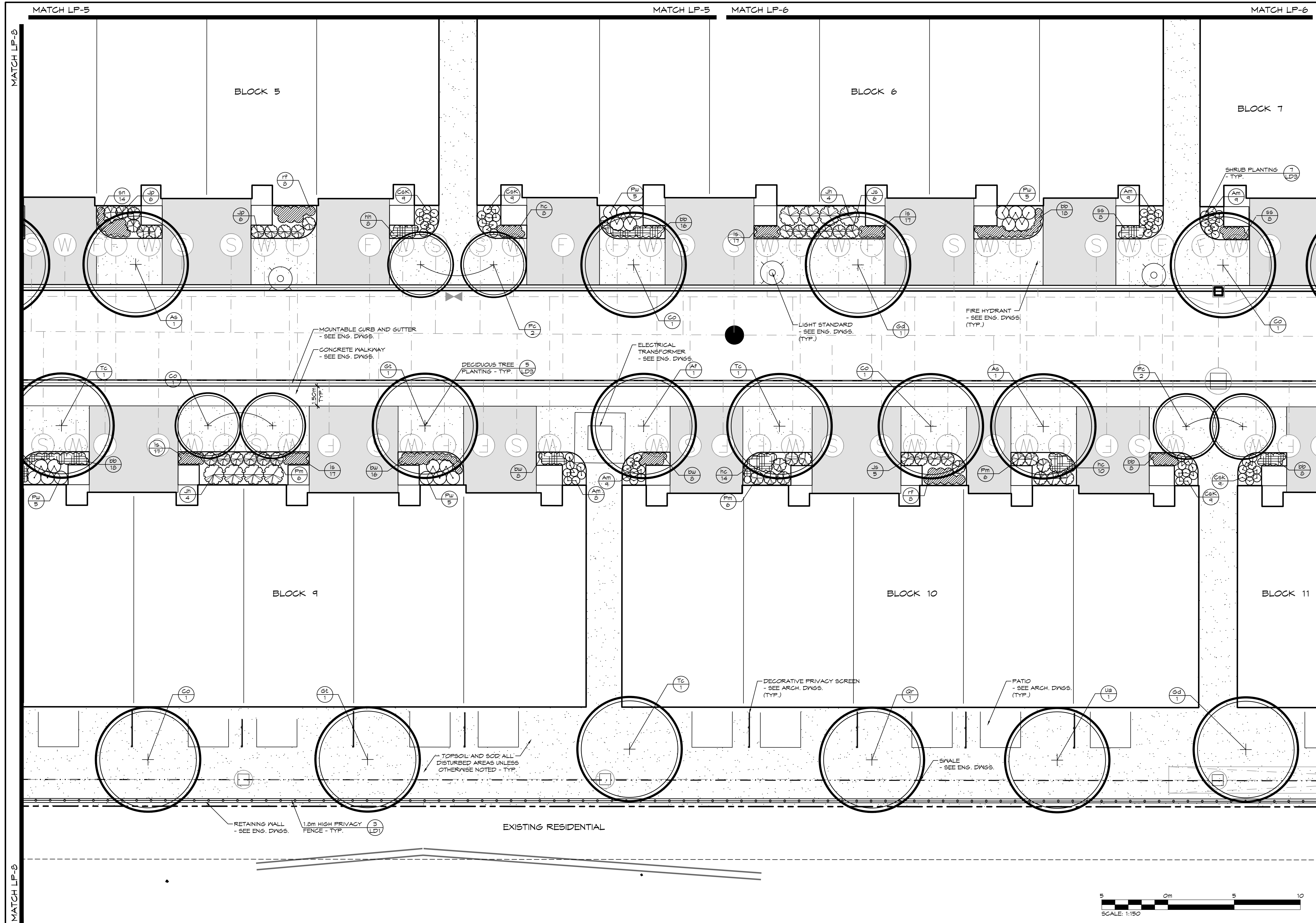
Drawing: **LANDSCAPE PLAN**

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGSWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
INFO@CFROZIER.CA

Drawn By: **K.M. / A.M.** Design By: **K.M.** Project: **1790-5382**

Check By: **K.M.** Check By: **K.M.** Scale: **1:150** Drawing: **LP-8**



SITE KEY PLAN (NTS)  
TOWN OF COLLINGSWOOD

**LEGEND**

|  |                                       |
|--|---------------------------------------|
|  | PROPERTY BOUNDARY                     |
|  | BUILDING SETBACK                      |
|  | FIRE HYDRANT - SEE ENG. DWGS.         |
|  | WATER VALVE - SEE ENG. DWGS.          |
|  | MANHOLE - SEE ENG. DWGS.              |
|  | UNDERGROUND SERVICES - SEE ENG. DWGS. |
|  | PRIVACY FENCE                         |
|  | DECIDUOUS TREE                        |
|  | DECIDUOUS SHRUB                       |
|  | CONIFEROUS SHRUB                      |
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|  | SPECIES QUANTITY                      |
|  | PLANT REFERENCE                       |
|  | TOPSOIL & SOD                         |

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  4. FOR GENERAL PLANTINGS NOTES, REFER TO NOTES ON DRAWING LD-3.



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Town

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| 2   | ISSUED FOR 2nd SUBMISSION SPA         | 09/10/2021       |
| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/09/2021       |
|     |                                       |                  |
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Landscape Architect

Landscape Architect

Project: **RESIDENCE AT SILVERCREEK TOWN OF COLLINGSWOOD**

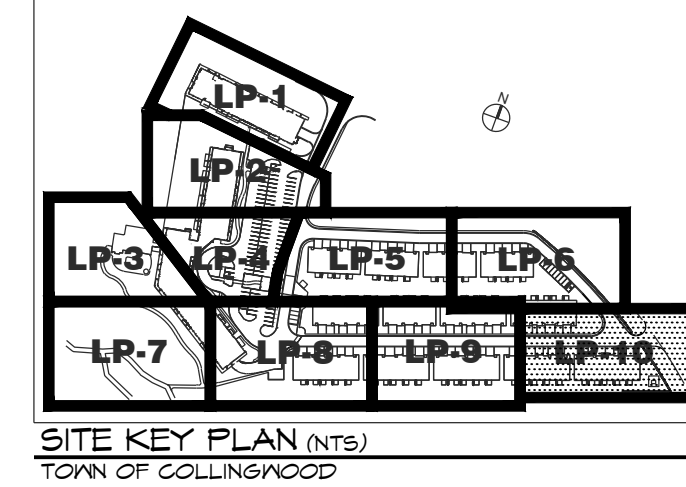
Drawing: **LANDSCAPE PLAN**

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREDGE BUILDING,  
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705 446-3510 T  
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Drawn By: K.J.N. / A.M. Design By: K.J.N. Project: **1790-5382**

Check By: K.J.N. Scale: 1:150 Drawing: **LP-9**

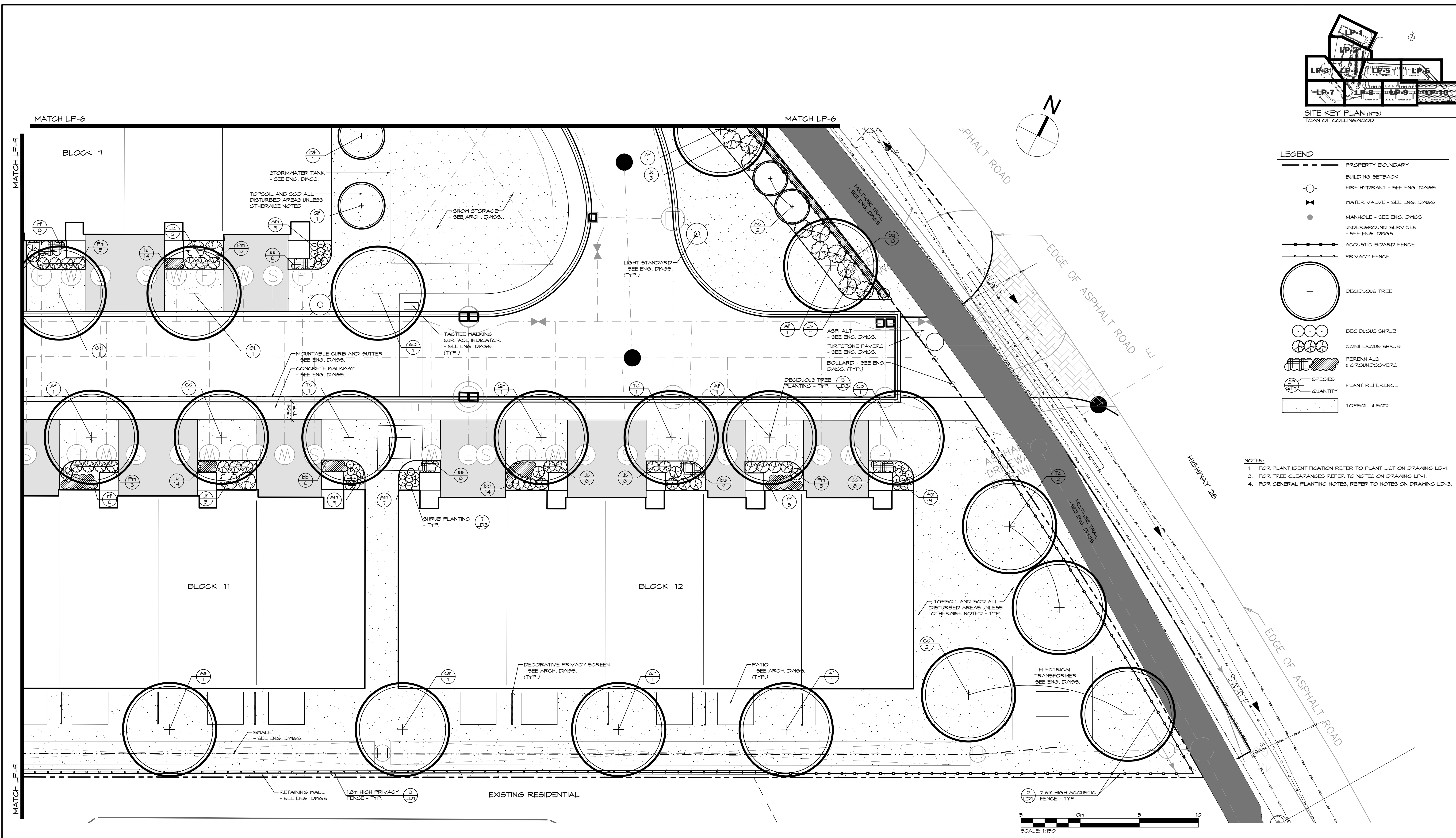


SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD

**LEGEND**

|  |                                      |
|--|--------------------------------------|
|  | PROPERTY BOUNDARY                    |
|  | BUILDING SETBACK                     |
|  | FIRE HYDRANT - SEE ENG. DWGS         |
|  | WATER VALVE - SEE ENG. DWGS          |
|  | MANHOLE - SEE ENG. DWGS              |
|  | UNDERGROUND SERVICES - SEE ENG. DWGS |
|  | ACOUSTIC BOARD FENCE                 |
|  | PRIVACY FENCE                        |
|  | DECIDUOUS TREE                       |
|  | DECIDUOUS SHRUB                      |
|  | CONIFEROUS SHRUB                     |
|  | PERENNIALS & GROUNDCOVERS            |
|  | SPECIES                              |
|  | QUANTITY                             |
|  | TOPSOIL & SOD                        |

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| 3   | ISSUED FOR 3rd SPA SUBMISSION         | 04/03/2021       |

Town

Landscape Architect

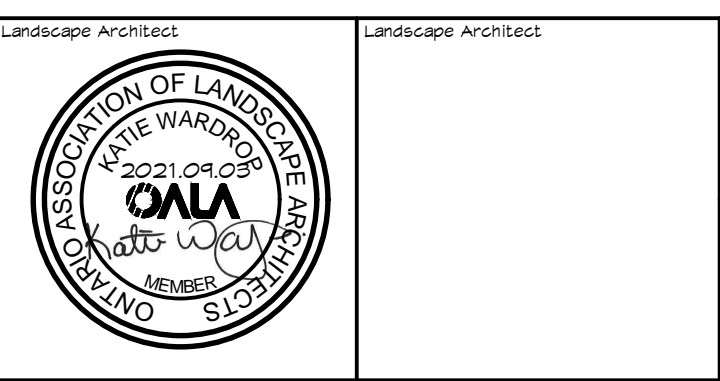
Landscape Architect

Project

Residence at Silvercreek  
Town of Collingwood

Drawing

LANDSCAPE PLAN



Drawn By: K.M. / A.M.

Check By: K.M.

Design By: K.M.

Check By: K.M.

Scale: 1:150

Project: 1790-5382

Drawing: LP-10

**CROZIER**  
CONSULTING ENGINEERS

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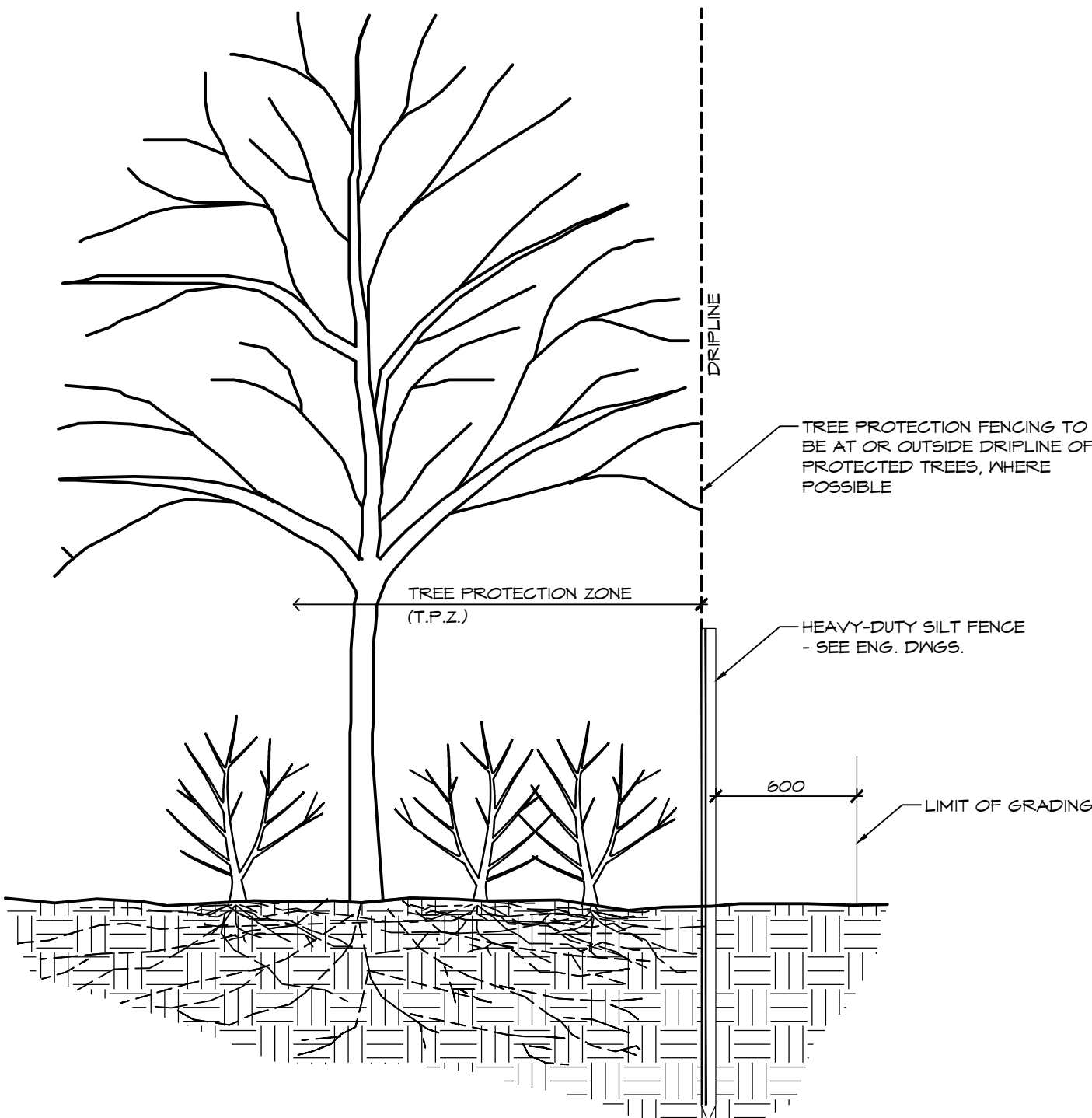
| PLANT LIST             |  |                                |           |       |         |     |
|------------------------|--|--------------------------------|-----------|-------|---------|-----|
| KEY                    | BOTANICAL NAME                                   | COMMON NAME                    | SIZE      | COND. | SPACING | QTY |
| <b>DECIDUOUS TREES</b> |  |                                |           |       |         |     |
| As                     | Acer saccharum 'Legacy'                          | Legacy Sugar Maple             | 50mm cal. | N.B.  |         | 14  |
| AF                     | Acer x Freemanii 'Jeffersred'                    | Autumn Blaze Maple             | 50mm cal. | N.B.  |         | 27  |
| Ac                     | Amelanchier canadensis (Multi-stem)              | Multi-stem Shadow Serviceberry | 200cm     | N.B.  |         | 4   |
| Bn                     | Betula nigra                                     | River Birch                    | 50mm cal. | N.B.  |         | 1   |
| Co                     | Celtis occidentalis                              | Common Hackberry               | 50mm cal. | N.B.  |         | 21  |
| Gd                     | Ginkgo biloba                                    | Maidenhair Tree                | 50mm cal. | N.B.  |         | 2   |
| Gt                     | Gleditsia triacanthos var. inermis 'Shademaster' | Shademaster Honeylocust        | 50mm cal. | N.B.  |         | 16  |
| Gd                     | Gymnocladia dioica                               | Kentucky Coffee Tree           | 50mm cal. | N.B.  |         | 11  |
| Ov                     | Ostrya virginiana                                | Ironwood                       | 50mm cal. | N.B.  |         | 6   |
| Pc                     | Pyrus calleryana 'Glen's Form'                   | Chanticleer Ornamental Pear    | 50mm cal. | N.B.  |         | 0   |
| Qf                     | Quercus robur 'Fastigiata'                       | Upright English Oak            | 50mm cal. | N.B.  |         | 6   |
| Qr                     | Quercus rubra                                    | Red Oak                        | 50mm cal. | N.B.  |         | 16  |
| Tc                     | Tilia cordata 'Greenspire'                       | Greenspire Linden              | 50mm cal. | N.B.  |         | 15  |
| Ua                     | Ulmus americana 'Valley Forge'                   | Valley Forge Elm               | 50mm cal. | N.B.  |         | 5   |

|                         |                              |                             |       |      |  |    |
|-------------------------|------------------------------|-----------------------------|-------|------|--|----|
| <b>CONIFEROUS TREES</b> |                              |                             |       |      |  |    |
| Li                      | Larix laricina               | American Larch              | 200cm | N.B. |  | 16 |
| Pa                      | Picea abies                  | Norway Spruce               | 200cm | N.B. |  | 12 |
| Pg                      | Picea glauca                 | White Spruce                | 200cm | N.B. |  | 36 |
| Ps                      | Pinus strobus                | Eastern White Pine          | 200cm | N.B. |  | 20 |
| Psf                     | Pinus strobus 'Fastigiata'   | Columnar Eastern White Pine | 200cm | N.B. |  | 44 |
| To                      | Thuja occidentalis           | Eastern White Cedar         | 200cm | N.B. |  | 3  |
| ToE                     | Thuja occidentalis 'Emerald' | Emerald Cedar               | 200cm | N.B. |  | 3  |

|                         |  |                          |      |        |           |     |
|-------------------------|--|--------------------------|------|--------|-----------|-----|
| <b>DECIDUOUS SHRUBS</b> |  |                          |      |        |           |     |
| Am                      | Aronia melanocarpa 'Low Scape Mound'     | Black Chokeberry         | 50cm | 3 gal. | 1.0m o.c. | 114 |
| Cs                      | Cornus sericea                           | Red Osier Dogwood        | 50cm | 3 gal. | 2.0m o.c. | 43  |
| Csk                     | Cornus sericea 'Kelsey'                  | Kelsey Red Osier Dogwood | 50cm | 3 gal. | 1.0m o.c. | 122 |
| Po                      | Physocarpus opulifolius                  | Common Ninebark          | 50cm | 3 gal. | 1.5m o.c. | 116 |
| Pw                      | Physocarpus opulifolius 'Tiny Nine Gold' | Tiny Nine Gold Ninebark  | 50cm | 3 gal. | 1.0m o.c. | 40  |
| Rt                      | Rhus typhina                             | Staghorn Sumac           | 50cm | 3 gal. | 1.5m o.c. | 10  |
| Sj                      | Sporaea japonica 'Macrophylla'           | Macrophylla Spirea       | 50cm | 3 gal. | 1.5m o.c. | 40  |
| Sjg                     | Spirea japonica 'Gold Mound'             | Flaming Mound Spirea     | 50cm | 3 gal. | 2.0m o.c. | 30  |

|                          |   |                            |      |        |           |     |
|--------------------------|---|----------------------------|------|--------|-----------|-----|
| <b>CONIFEROUS SHRUBS</b> |   |                            |      |        |           |     |
| Jc                       | Juniperus chinensis sargentii 'Viridis'     | Green Sargent Juniper      | 50cm | 3 gal. | 1.5m o.c. | 170 |
| Jh                       | Juniperus horizontalis 'Turquoise Spreader' | Turquoise Spreader Juniper | 50cm | 3 gal. | 1.5m o.c. | 23  |
| Jb                       | Juniperus sabina 'Monna'                    | Calgary Carpet Juniper     | 50cm | 3 gal. | 1.0m o.c. | 41  |
| Jp                       | Juniperus squamata 'Blue Star'              | Blue Star Juniper          | 50cm | 3 gal. | 1.0m o.c. | 25  |
| Jv                       | Juniperus virginiana 'Grey Owl'             | Grey Owl Juniper           | 50cm | 3 gal. | 1.5m o.c. | 32  |
| Jp                       | Juniperus x pfitzeriana 'Old Gold'          | Old Gold Juniper           | 50cm | 3 gal. | 1.0m o.c. | 102 |
| Pm                       | Pinus mugo 'Sloumound'                      | Sloumound Mugo Pine        | 50cm | 3 gal. | 1.0m o.c. | 42  |

|                                      |  |   |        |            |  |     |
|--------------------------------------|--|---|--------|------------|--|-----|
| <b>PERENNIALS &amp; GROUNDCOVERS</b> |  |   |        |            |  |     |
| ca                                   | Calamagrostis acutiflora 'Karl Foerster' | Karl Foerster Feather Reed Grass            | 1 gal. | 0.75m o.c. |  | 310 |
| bb                                   | Bergenia x 'Bressingham Ruby'            | Bressingham Ruby Heartleaf Bergenia         | 1 gal. | 0.5m o.c.  |  | 130 |
| bw                                   | Bergenia x 'Bressingham White'           | Bressingham White Heartleaf Bergenia        | 1 gal. | 0.5m o.c.  |  | 44  |
| hc                                   | Heuchera x 'Chocolate Ruffles'           | Chocolate Ruffles Coral Bells               | 1 gal. | 0.5m o.c.  |  | 106 |
| hs                                   | Hemerocallis 'Stella D'Oro'              | Stella D'Oro Daylily                        | 1 gal. | 0.5m o.c.  |  | 314 |
| hh                                   | Hosta High Society                       | Hosta High Society Hosta                    | 1 gal. | 0.5m o.c.  |  | 371 |
| is                                   | Iris pumila 'Barbary Ruffles'            | Barbary Ruffles Standard Dwarf Bearded Iris | 1 gal. | 0.3m o.c.  |  | 248 |
| pa                                   | Parthenocissus quinquefolia              | Virginia Creeper                            | 1 gal. | 3.0m o.c.  |  | 60  |
| rf                                   | Rudbeckia fulgida 'Goldsturm'            | Black-Eyed Susan                            | 1 gal. | 0.6m o.c.  |  | 34  |
| sn                                   | Salvia nemorosa 'May Night'              | May Night Meadow Sage                       | 1 gal. | 0.5m o.c.  |  | 60  |
| ss                                   | Sedum spectabile 'Autumn Joy'            | Autumn Joy Stonecrop                        | 1 gal. | 0.5m o.c.  |  | 141 |



1 TREE PROTECTION FENCE  
LD1

**NOTES:**

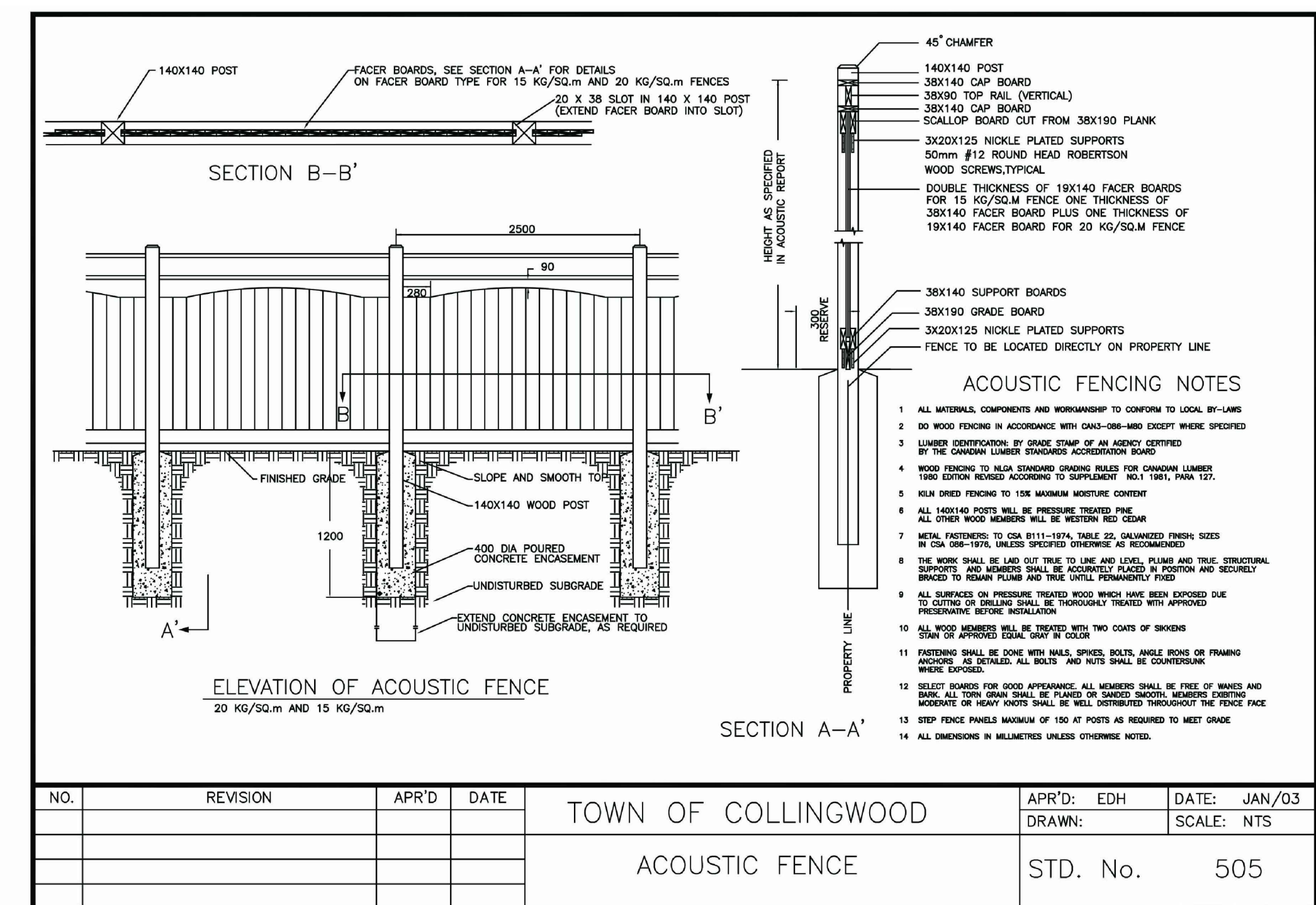
**1.0 TREE PROTECTION**

- INSTALL TREE PROTECTION FENCING IN LOCATIONS INDICATED IN CONTRACT DRAWINGS.
- WHERE POSSIBLE, TREE PROTECTION FENCING LOCATION TO BE AT OR OUTSIDE THE DRIPLINE OF PROTECTED TREES, WHICH IS DEFINED AS THE CIRCLE THAT COULD BE DRAWN ON THE SOIL AROUND A TREE DIRECTLY UNDER THE TIPS OF ITS OUTERMOST AND WIDEST BRANCHES.
- LOCATION OF TREE PROTECTION FENCE SHALL BE CONFIRMED ON-SITE BY THE LANDSCAPE ARCHITECT BEFORE COMMENCEMENT OF TREE CLEARING OPERATIONS.
- AS PART OF THE TREE REMOVAL OPERATION ALL STEMS, LIMBS AND STUMPS SHOULD BE REMOVED FROM THE SITE.
- THE ROOT SYSTEMS FROM ALL EXISTING VEGETATION TO BE RETAINED SHALL BE PROTECTED FROM DAMAGE, COMPACTION AND CONTAMINATION RESULTING FROM CONSTRUCTION.
- NO STORAGE OF MATERIALS OR EQUIPMENT WITHIN THE TREE PROTECTION ZONE IS PERMITTED. NO EQUIPMENT OR MATERIALS SHALL HIT OR DAMAGE TREES DESIGNATED TO BE PRESERVED.
- NO ROOT CUTTING OR MOVEMENT OF VEHICLES IS PERMITTED IN THE TREE PROTECTION ZONE.
- FENCE BARRIERS MUST REMAIN IN FUNCTIONAL CONDITION UNTIL ALL SITE WORKS INCLUDING LANDSCAPING ARE COMPLETED.
- THE CONTRACTOR SHALL REMOVE TREE PROTECTION FENCING AFTER THE COMPLETION OF ALL SITE WORKS FOLLOWING WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.

**2.0 HAZARDOUS TREE MANAGEMENT**

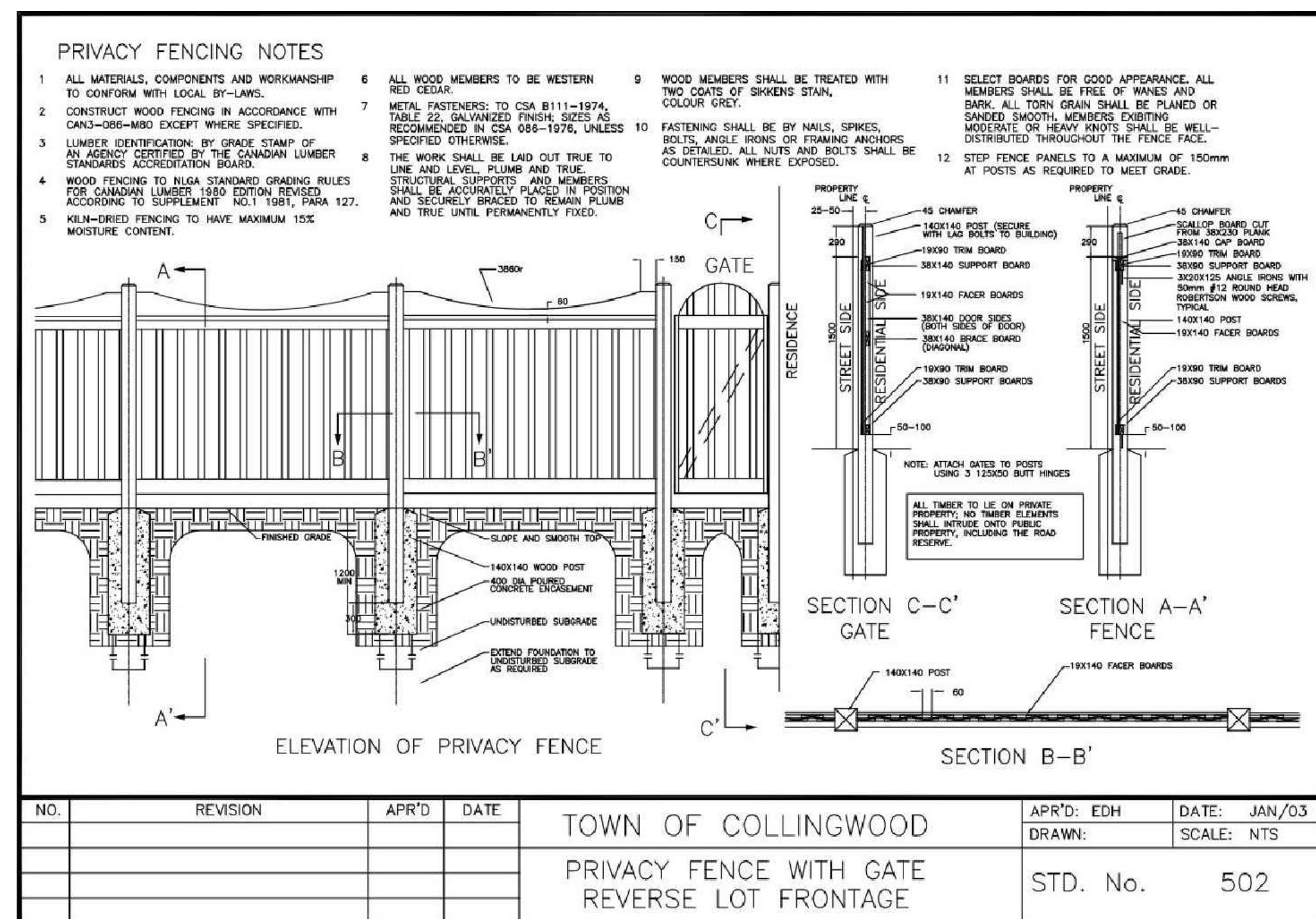
- SELECTIVE REMOVAL OF HAZARDOUS TREES WITHIN THE TREE PROTECTION ZONE WILL BE DETERMINED ON-SITE BY THE LANDSCAPE ARCHITECT.
- WHERE REMOVALS ARE REQUIRED, THE FELLING ZONE SHOULD ALLOW THE TREES TO FALL WITHOUT DAMAGE TO EXISTING STRUCTURES, OR TREES (BRANCHES & TRUNKS) TO REMAIN.
- SHOULD NO CLEAR FELLING ZONE EXIST, THE TREE SHALL BE CUT INCREMENTALLY FROM TOP TO BOTTOM AND LOWERED TO THE GROUND WITH ROPES.
- ANY ROOTS THAT BECOME EXPOSED DURING CONSTRUCTION SHALL BE CLEANLY CUT.

1:25



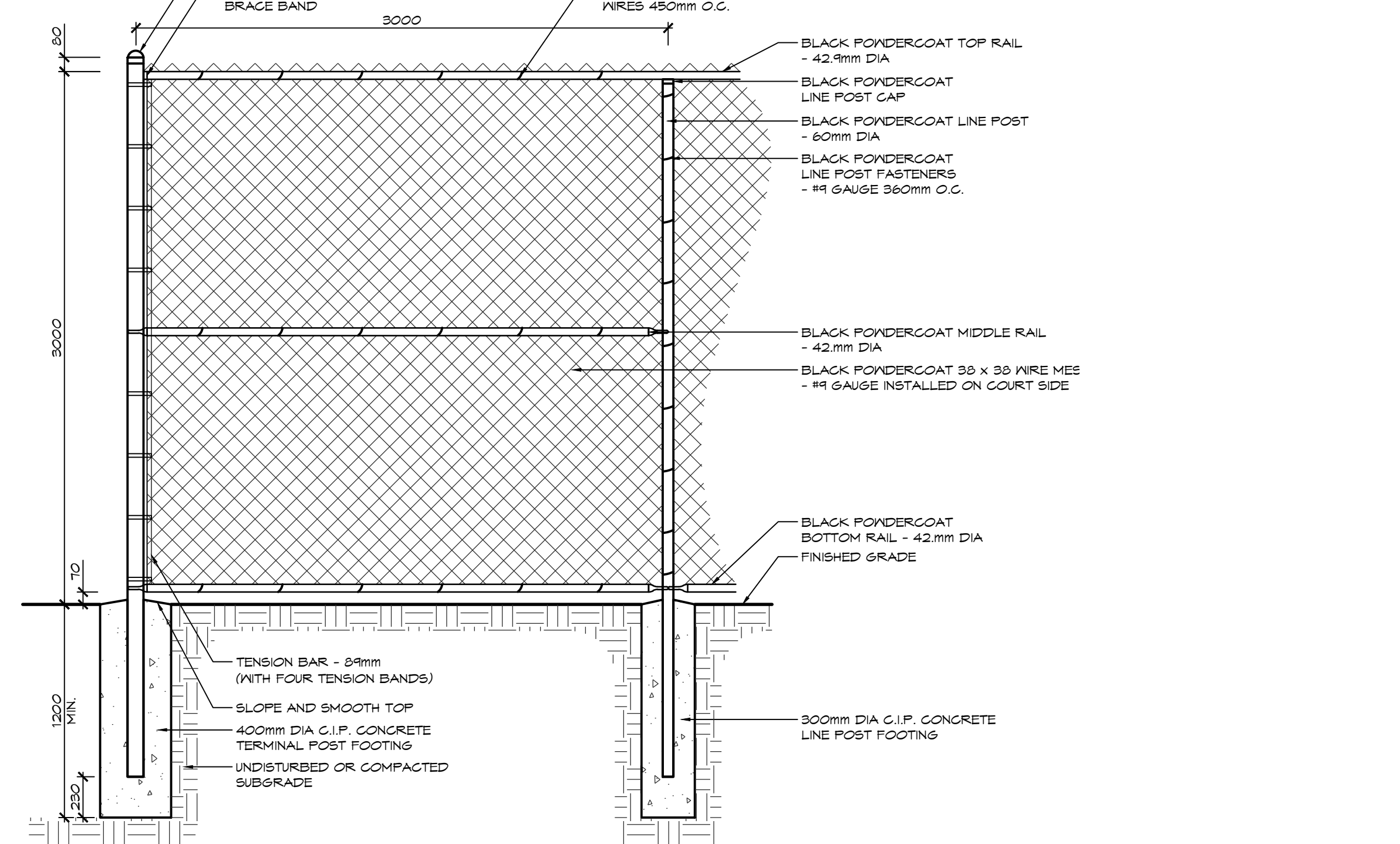
2 ACOUSTIC FENCE  
LD1

NTS



3 PRIVACY FENCE  
LD1

NTS



4 MULTI-USE COURT FENCING  
LD1

1:25

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2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.

3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.

4. DO NOT SCALE THE DRAWINGS.

5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

| NO. | REVISION | APR'D | DATE |
|-----|----------|-------|------|
|     |          |       |      |

| NO. | ISSUE                         | DATE: MM/DD/YYYY |
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| 1   | ISSUED FOR SITE PLAN APPROVAL | 07/11/2020       |
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| 3   | ISSUED FOR 3rd SPA SUBMISSION | 04/03/2021       |

Town of Collingwood  
PRIVACY FENCE WITH GATE  
REVERSE LOT FRONTAGE  
STD. No. 502

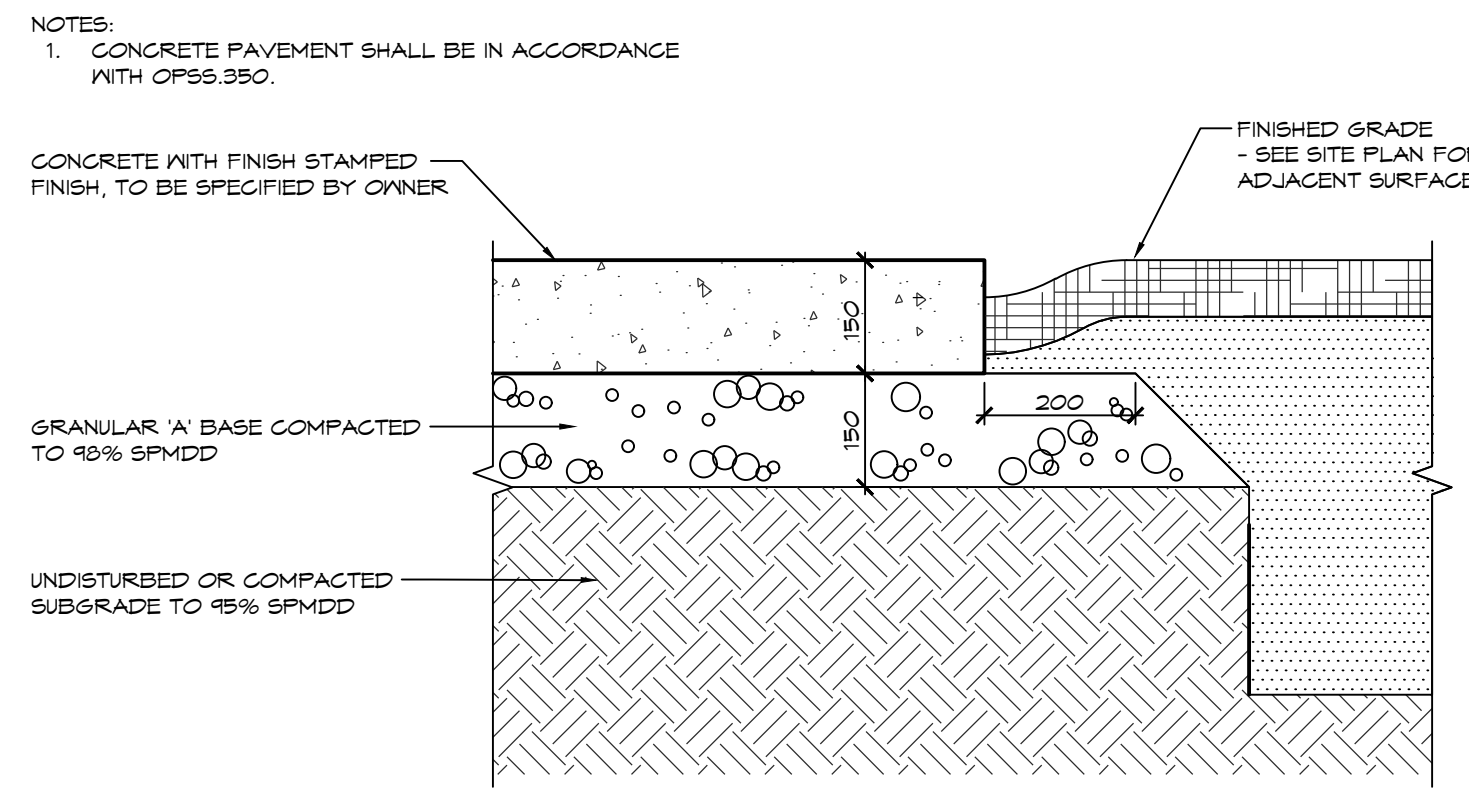
TOWN OF COLLINGWOOD  
ACOUSTIC FENCE  
STD. No. 505

**CROZIER CONSULTING ENGINEERS**

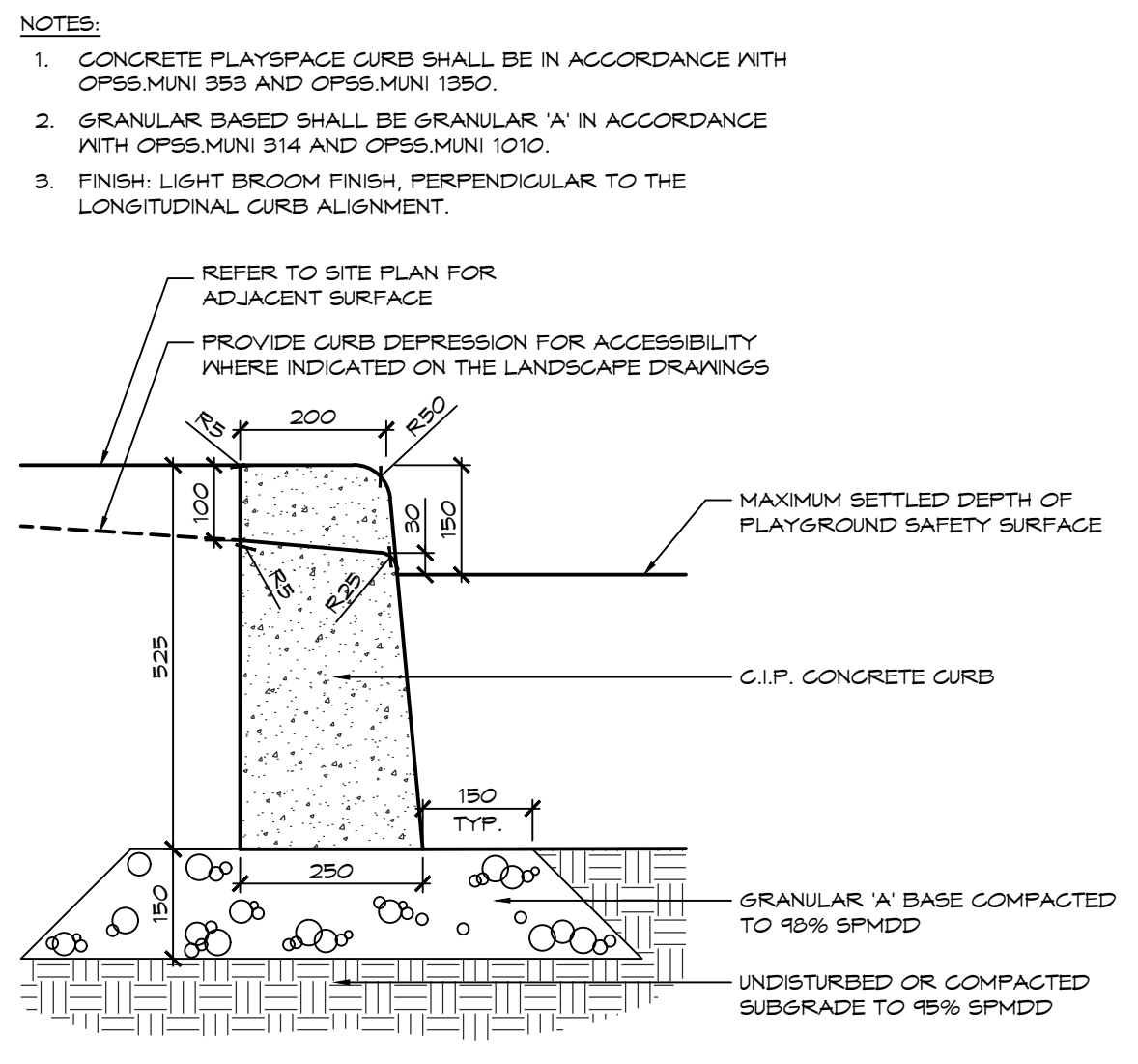
THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705-446-3510 T  
705-446-3520 F  
WWW.CROZIER.CA  
INFO@CROZIER.CA

Drawn By: R.M./A.M. Design By: K.J.L. Project: 1790-5382  
Check By: K.J.L. Scale: AS SHOWN Drawing: LD-1

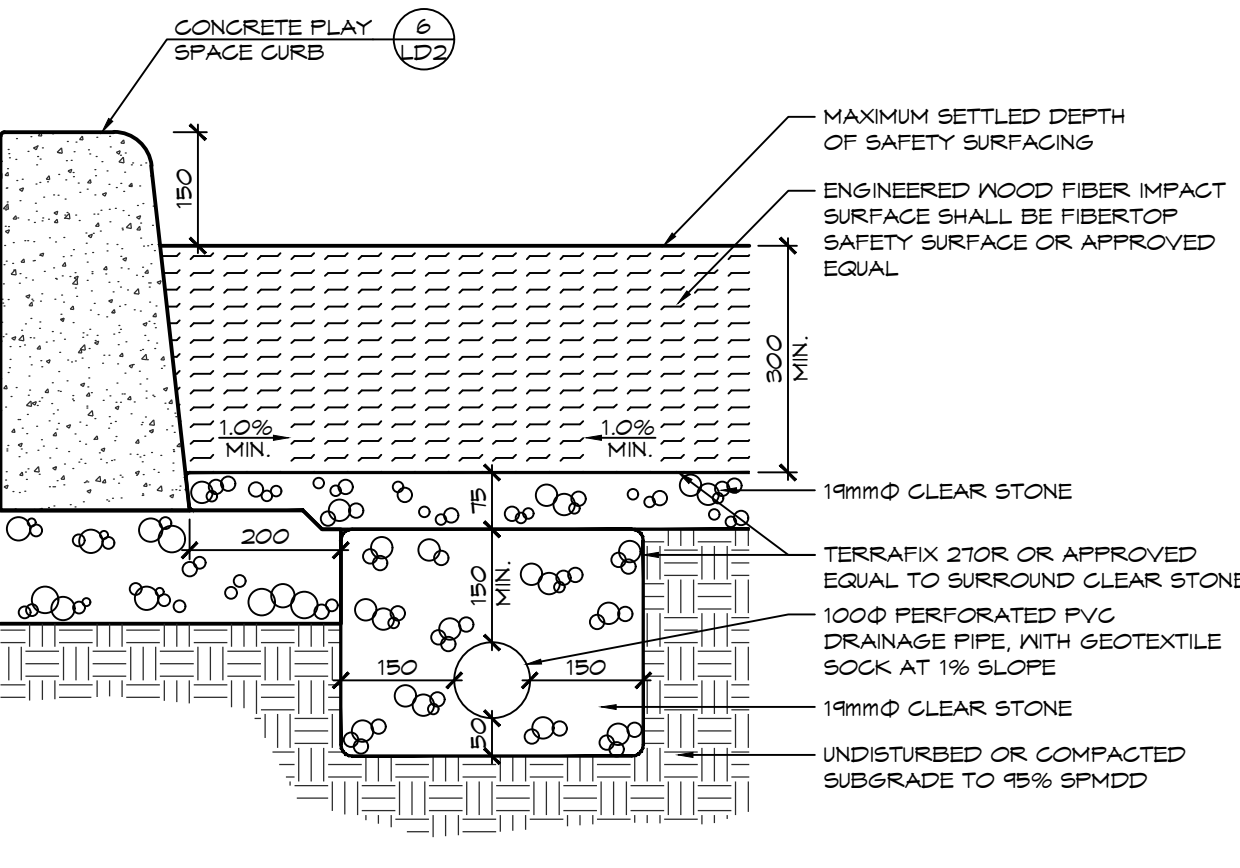




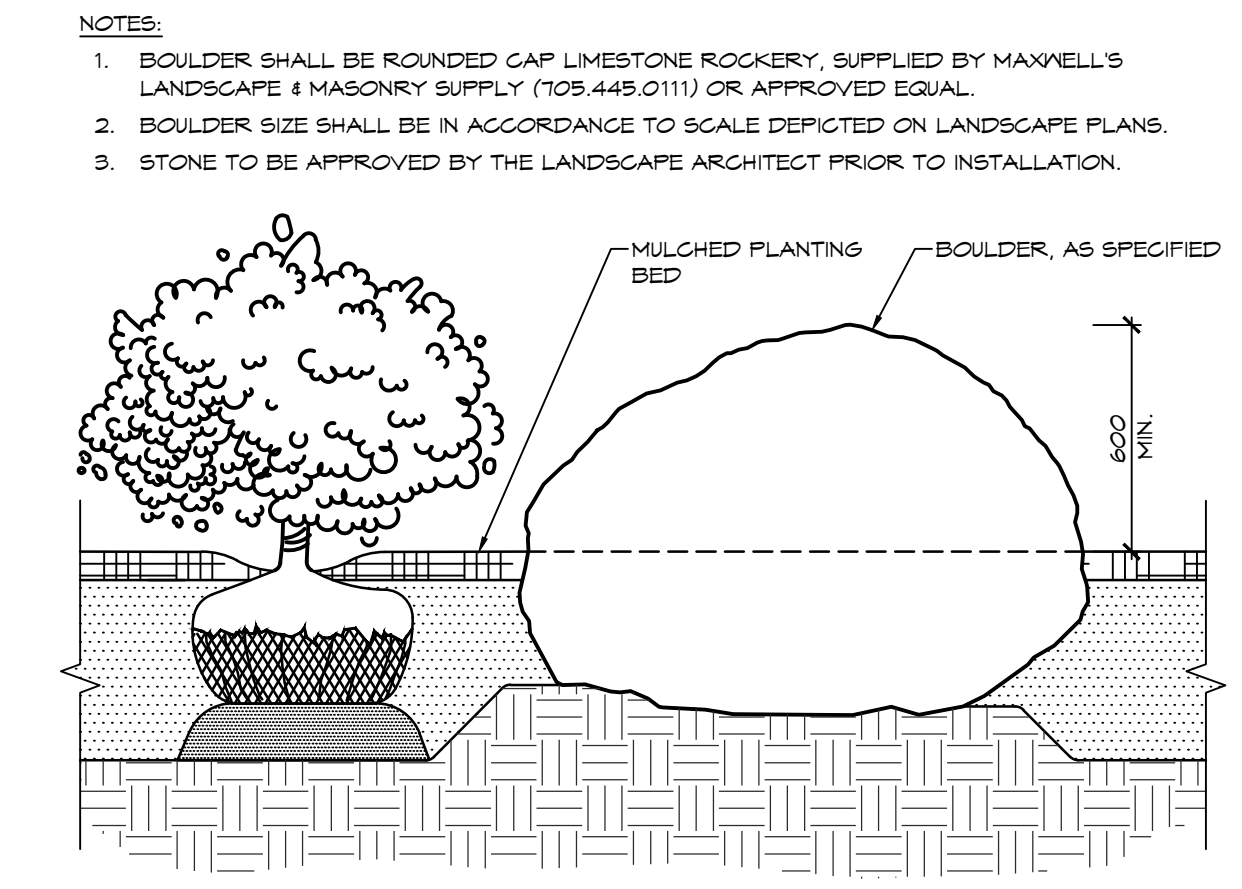
**1 STAMPED CONCRETE WALKWAY**  
LD3 1:10



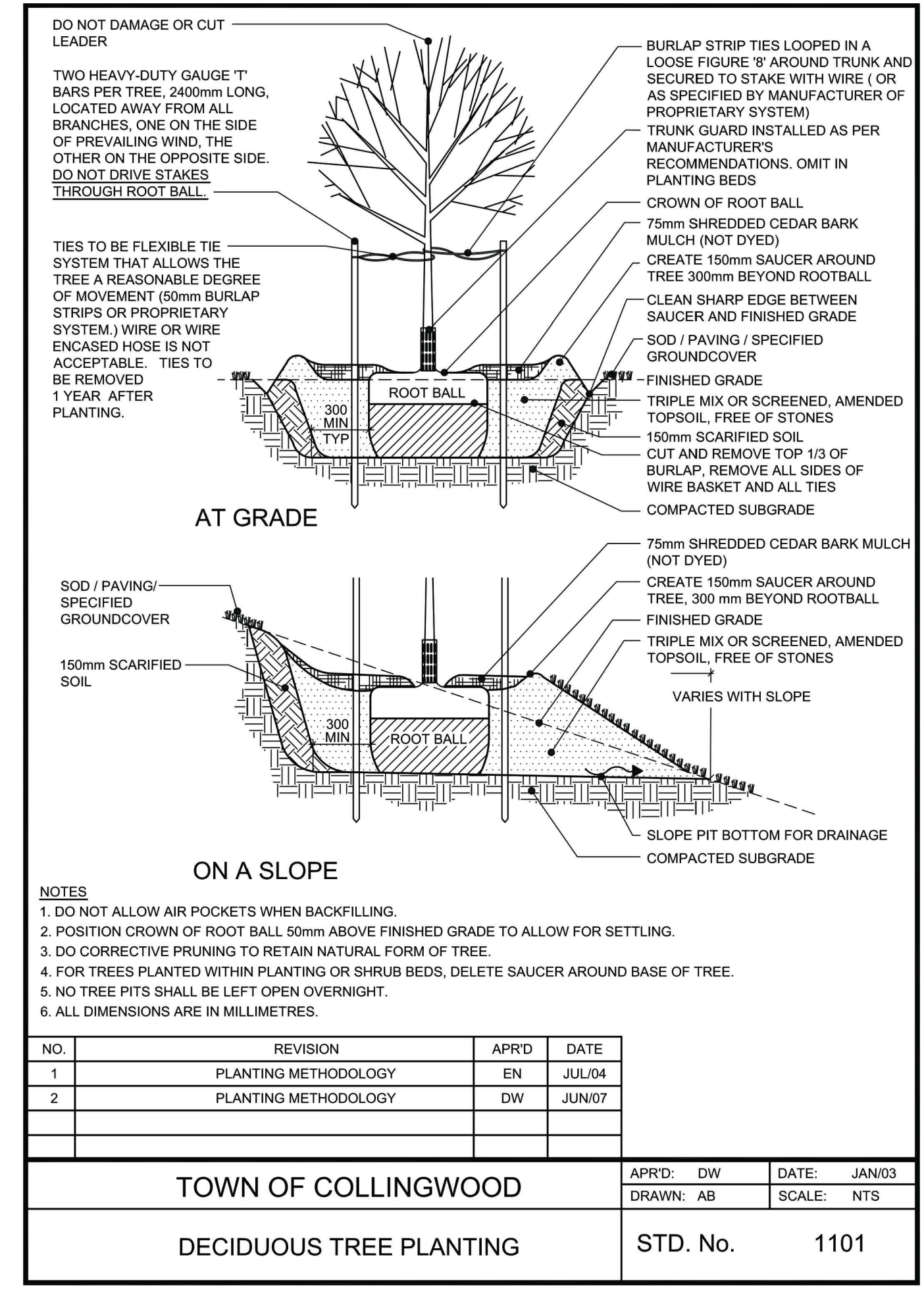
**2 CONCRETE PLAY SPACE CURB**  
LD3 1:10



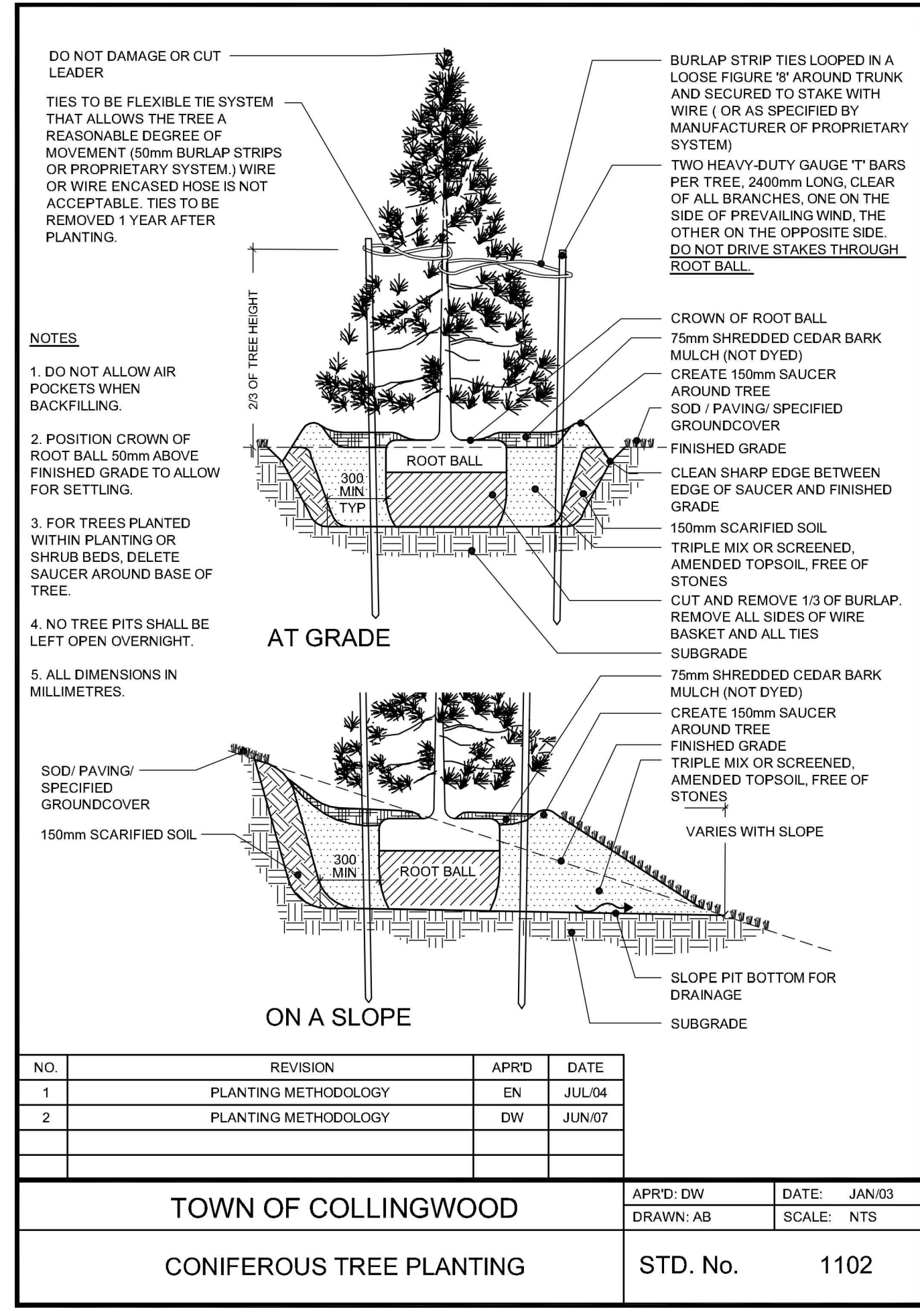
**3 PLAY SPACE SAFETY SURFACE & SUB DRAINAGE SYSTEM**  
LD3 1:10



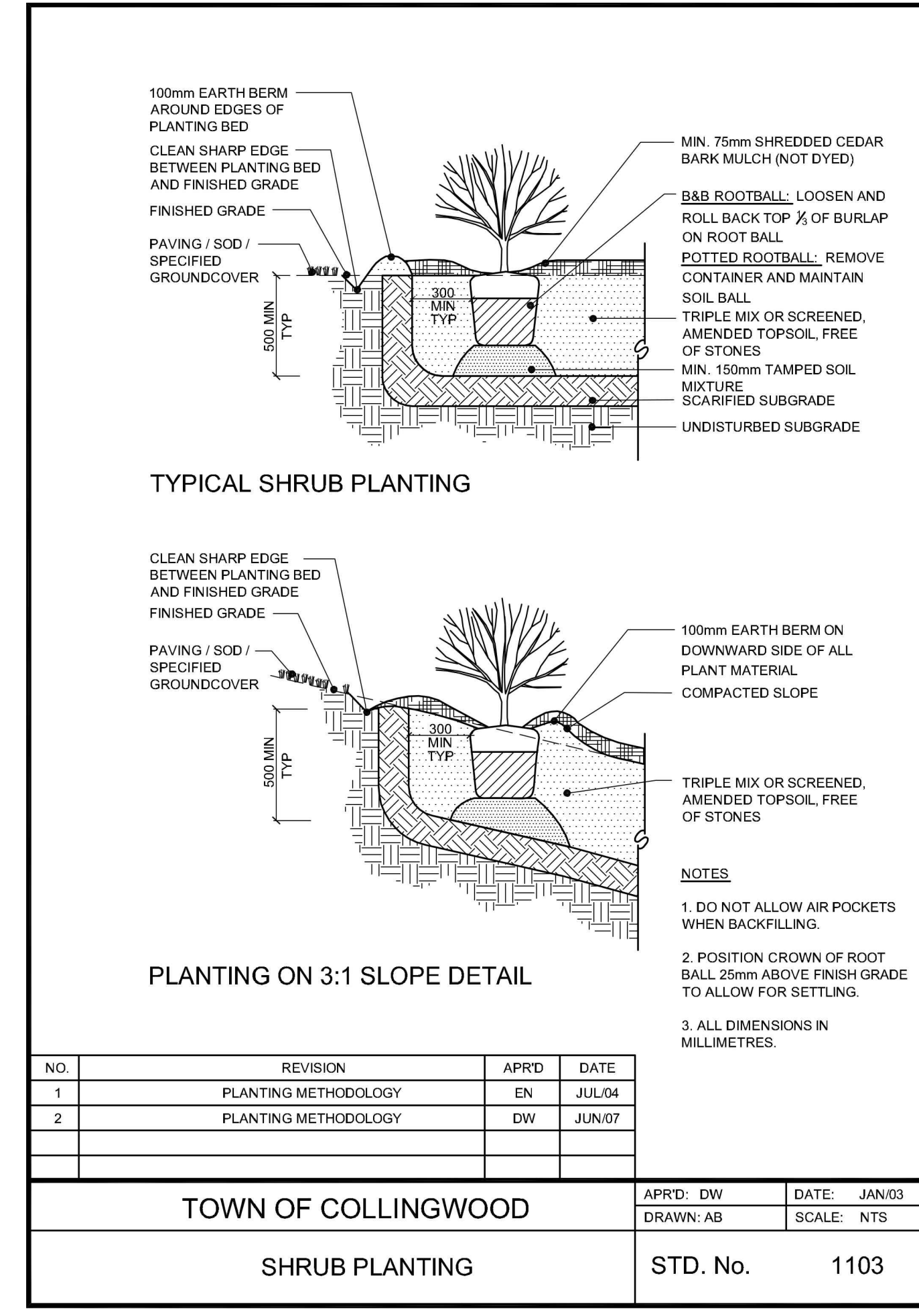
**4 LANDSCAPE BOULDER**  
LD3 1:20



**5 DECIDUOUS TREE PLANTING**  
LD3 NTS



**6 CONIFEROUS TREE PLANTING**  
LD3 NTS



**7 SHRUB PLANTING**  
LD3 NTS

**GENERAL NOTES:**

**1.0 PLAY SPACE**

- PLAY SPACES SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-Z614-20 (CSA) "CHILDREN'S PLAYGROUND EQUIPMENT AND SURFACING", LATEST REVISION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH PLAY STRUCTURE MANUFACTURER TO ENSURE THE MINIMUM FALL PROTECTION ZONE ARE ACCOMMODATED WITHIN THE SAFETY SURFACING AREA. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONSULTANT.
- THE FOLLOWING PLAYGROUND EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY ABC RECREATION LTD., TEL: 1.800.261.9193 (MIKE KITCHEN), OR APPROVED EQUAL.
  - SMART PLAY CURB**  
MODEL NO.: 203160A  
COLOUR TO BE DETERMINED BY OWNER.

**2.0 SITE FURNITURE**

- THE FOLLOWING SITE FURNITURE SHALL BE SUPPLIED BY MASLIN SITE FURNITURE, 3-469 INNOVATION WAY, WOODSTOCK, ONTARIO, TEL.: 1.800.716.5506, OR APPROVED EQUAL.
  - BICYCLE RACK**  
MODEL NO.: MBR-2300-00001  
METAL FINISH: POWDER COATED BLACK MATTE  
FOOTINGS/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS
  - BENCH**  
MODEL NO.: MBE-0910-00025  
METAL FINISH: POWDER COATED BLACK MATTE  
WOOD: IPE  
FOOTINGS/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS
  - PRIVACY SCREEN (4FT W X 6FT H)**  
MODEL NO.: MPA-2600-00008  
METAL FINISH: POWDER COATED TITANIUM MATTE  
FOOTINGS/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS
- THE FOLLOWING SITE FURNITURE SHALL BE SUPPLIED BY TIMBERKITS™, 195 GEORGE STREET, LINDSAY, ONTARIO, TEL.: 905.242.0500, OR APPROVED EQUAL.
  - PERGOLA**  
MODEL: SUPER HEAVY STANDARD PERGOLA  
CUSTOM BUILD: 18' X 24'  
FOOTINGS/ ATTACHMENTS: AS PER MANUFACTURER'S RECOMMENDATIONS.
  - PAVILION**  
MODEL: SUPER HEAVY STANDARD PAVILION  
CUSTOM BUILD: 14' X 22'  
FOOTINGS/ ATTACHMENTS: AS PER MANUFACTURER'S RECOMMENDATIONS.

**3.0 PLANTING**

- ALL WORKMANSHIP TO THE STANDARDS OF THE LANDSCAPE ONTARIO HORTICULTURAL TRADES ASSOCIATION AND THE CANADIAN LANDSCAPE STANDARDS.
- TREE LOCATIONS SHALL BE STAKED ON SITE BY THE LANDSCAPE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- BACKFILL IS TO CONSIST OF SOIL NATIVE TO THE SITE OR GENERAL SOIL TYPE/GLASS NATIVE TO THE SITE. SOIL AMENDMENT MAY BE REQUIRED BASED ON SOURCE OF IMPORTED OR EXISTING SITE QUALITY OF TOPSOIL. PROVIDE NUTRIENT ANALYSIS OF TOPSOIL TO BE USED FOR LANDSCAPE PURPOSES IN ORDER TO DETERMINE SOIL AMENDMENT REQUIREMENTS.
- REPORT ALL DISCREPANCIES IN WRITING TO THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNER'S ACCEPTANCE OF PROJECT.
- UNLESS OTHERWISE STATED, ALL WORK SHALL CONFORM TO THE LANDSCAPE ONTARIO SPECIFICATION STANDARDS.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
- PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/ SERVICES AND DRIVEWAYS.
- TREE PITS OR PLANTING BEDS LOCATED WITHIN 1 METER OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
- SUBMIT WRITTEN GUARANTEE TO THE EFFECT THAT ALL PLANTS ACCEPTED DURING THE PERIOD OF JANUARY 1st TO JULY 15th SHALL BE GUARANTEED UNTIL JULY 15th THE SECOND FOLLOWING YEAR. PLANTS ACCEPTED DURING THE PERIOD OF JULY 15th TO DECEMBER 31st SHALL BE GUARANTEED FOR TWO YEARS FROM THE DATE OF ACCEPTANCE. THE GUARANTEE PERIOD LISTED ABOVE SHALL APPLY TO ALL "NURSERY GROWN" PLANTS AS PER TOWN OF COLLINGWOOD'S TWO YEAR MAINTENANCE REQUIREMENTS.
- ALL MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SOD ANY AREAS MARKED WITH NURSERY SOD ON 150mm CLEAN TOPSOIL. FINE GRADE AND SOD ALL BOULEVARD AREAS TO MUNICIPAL SPECIFICATIONS AND REPAIR DAMAGE TO ADJACENT PROPERTIES AS REQUIRED.
- FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL COINCIDE WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.
- AT THE TIME OF FINAL INSPECTION, ALL PLANTS SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION AND PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.

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**NOTES:**

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| 1   | PLANTING METHODOLOGY | EN   | JUL/04 |
| 2   | PLANTING METHODOLOGY | DW   | JUN/07 |

LANDSCAPE ARCHITECT

PROJECT

DRAWING

Scale: AS SHOWN

**RESIDENCE AT SILVERCREEK**  
TOWN OF COLLINGWOOD

LANDSCAPE DETAILS

1790-5382

LD-3

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREDGE BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705-446-3510 T  
705-446-3520 F  
WWW.CFCROZIER.CA  
INFO@CFCROZIER.CA

Drawn By: K.M. / A.M. Design By: K.M. Project: 1790-5382  
Check By: K.M. Scale: AS SHOWN Drawing: LD-3