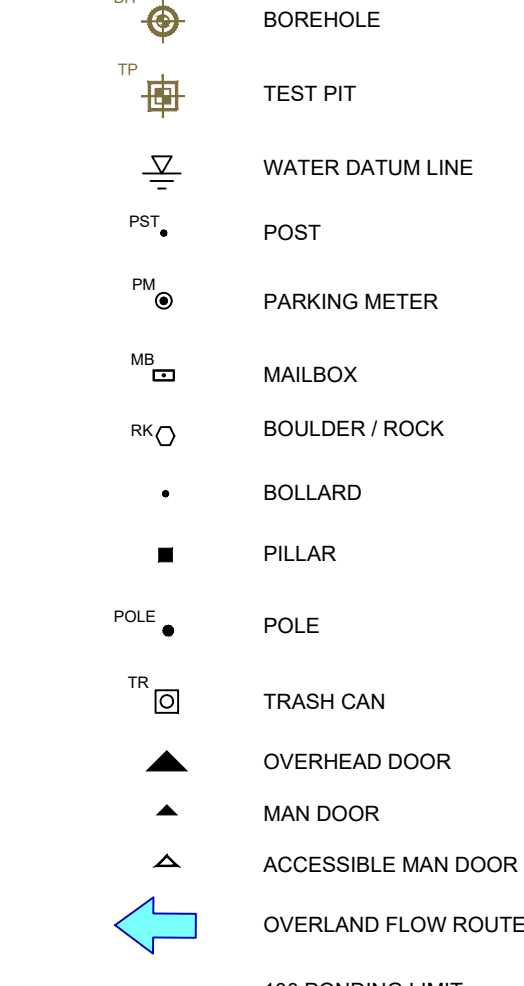
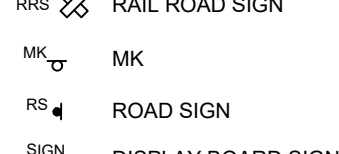
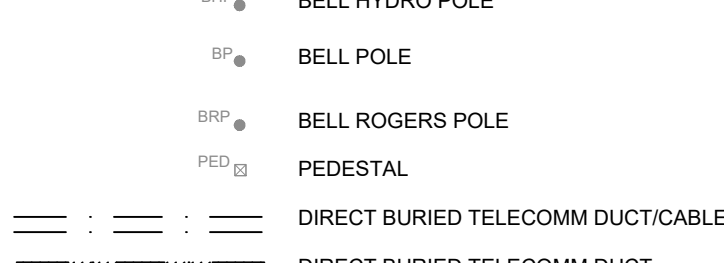
BHP  BELL HYDRO POLE

#### 1. ALL CONSTRUCTS

- TOWNSHIP OF ASPHODEL-NORWOOD DESIGN STANDARDS
- ONTARIO PROVINCIAL STANDARD DRAWINGS & SPECIFICATIONS
- APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED HEREIN.
2. THE CONTRACTOR SHALL CONSTRUCT ALL WORK IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT, HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION PROJECTS.
3. THE CONTRACTOR SHALL RESTORE OR REPLACE DAMAGED SERVICES TO EXISTING OR BETTER CONDITION.
4. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING OR BETTER CONDITION, OR PER THE ENGINEERING AND LANDSCAPE SPECIFICATIONS REFERENCED HEREIN.
5. THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL, BOOK 7, TEMPORARY CONDITIONS.
6. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIALS IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT GUIDELINES AND LOCAL MUNICIPAL BYLAWS.
7. WHERE UTILITIES, SEWERS, WATERMAIN AND OTHER UNDERGROUND INFRASTRUCTURE ARE SHOWN ON THE CONTRACT DRAWINGS, THEIR LOCATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE WORK INCLUDING ROAD OCCUPANCY PERMITS, ROAD CUT PERMITS, OCCUPANCY PERMITS, ENCROACHMENT AGREEMENTS.
9. ANY UTILITY PLOES THAT MAY BE UNDERSERMINED BY THE CONSTRUCTION ACTIVITY ARE TO BE BRACED. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS TO HAVE THE PLOES BRACED IN ACCORDANCE WITH THE APPROPRIATE UTILITY REQUIREMENTS; THE COST FOR THIS WORK IS INCLUDED IN THE UNIT PRICES FOR THE WORK ITEMS AFFEDED.
10. ALL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED ON THE CONTRACT DRAWINGS ARE TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
11. ACCESS TO ADJACENT PRIVATE PROPERTIES SURROUNDING THE CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY ACCESS RESTRICTIONS WILL ONLY BE PERMITTED WHERE REQUIRED TO FACILITATE UNDERGROUND SERVICING, ASPHALT AND CONCRETE PLACEMENT. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE TOWN AND THE AFFECTED PROPERTY OWNERS PRIOR TO ACCESS INTERRUPTION.
12. ALL PROPERTY BARS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THE CONCLUSION OF THE CONTRACT, AT THEIR EXPENSE.
13. ALL MANHOLE AND CATCHBASIN FRAMES AND GRATES WITHIN THE TRAVELED PORTION OF THE ROAD SHALL BE SET TO BASE ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF SURFACE ASPHALT.
14. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION; ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
15. EXISTING SIGNAGE WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND REINSTALLED UPON COMPLETION. REGULATORY SIGNAGE SHALL REMAIN IN PLACE AT ALL TIMES.
16. ALL COSTS IN RELATION TO THE RESTORATION OF THE RIGHT OF WAY SHALL BE THAT OF THE GENERAL CONTRACTOR.
17. RESPECTING ALL WORK IN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR IS TO COMMENCE THE TOWNSHIP OF ASPHODEL-NORWOOD 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORKS.
18. ALL AREAS WITHIN THE MUNICIPAL RIGHT OF WAY DISTURBED DURING

## 1 THE CONTR

- COMPLETE WITH FRAME, GRATE AS PER OPSD 701.010 AND 401.081  
RESPECTIVELY UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL INSTALL CONCRETE MANHOLES COMPLETE WITH  
FRAME, GRATE AS PER OPSD 701.010, AND 401.010 UNLESS OTHERWISE  
SPECIFIED ON THE DRAWINGS.
3. THE CONTRACTOR SHALL INSTALL CONCRETE CATCHBASINS COMPLETE WITH  
FRAME, GRATE AS PER OPSD 705.010 AND 401.081 RESPECTIVELY UNLESS  
OTHERWISE SPECIFIED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL INSTALL CONCRETE DOUBLE CATCHBASIN MANHOLES  
COMPLETE WITH FRAME, GRATE AS PER OPSD 701.020 AND 401.081  
RESPECTIVELY UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
5. THE CONTRACTOR SHALL PERFORM LEAK AND DEFLECTION TESTING ON ALL  
STORM AND SANITARY SEWERS IN ACCORDANCE WITH CONTRACT DOCUMENTS  
AND OPSD 410 RESPECTIVELY.
6. THE CONTRACTOR SHALL CLEAN AND PERFORM CCTV INSPECTION ON ALL  
STORM AND SANITARY SEWERS IN ACCORDANCE WITH CONTRACT DOCUMENTS  
AND OPSD 409 RESPECTIVELY.
7. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE ENGINEER PRIOR  
TO CONDUCTING PIPE LEAK AND DEFLECTION TESTING, CCTV INSPECTIONS  
AND/OR CLEANING OF THE STORM SEWER.
8. PIPE BEDDING, COVER AND BACKFILL SHALL BE IN ACCORDANCE WITH THE OPSD  
802.030 FOR FLEXIBLE PIPE AND OPSD 802.030 FOR CONCRETE PIPE. BEDDING  
AND COVER SHALL BE GRANULAR "A" COMPACTED TO 100 % SPDD, BACKFILL  
SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR "B", COMPACTED TO 100 %  
SPDD.
9. ALL STORM AND SANITARY MANHOLES SHALL BE BENCHED IN ACCORDANCE  
WITH OPSD 701.021.
10. ALL CATCH BASIN MANHOLES AND STORM MANHOLES TO HAVE 0.3m SUMP
11. THE CONTRACTOR SHALL INSTALL STORM SERVICE CONNECTIONS IN

1. THE ROAD SHALL BE RECONSTRUCTED TO MATCH EXISTING CONCRETE CURB ALONG SPRUCE DRIVE.
  2. ROAD SUBGRADE AND PARKING AREAS SHALL BE COMPACTED TO 98% SPMD SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO PLACEMENT OF GRANULAR MATERIAL.
  3. PAVEMENT STRUCTURE SHALL CONSIST OF THE FOLLOWING:  
  
ROAD RESTORATION
- THE RESTORATION SHALL MATCH THE EXISTING DEPTHS OF GRANULAR "A",

1 THE CONTRACTOR SHALL

- ADMINISTRATOR PRIOR TO COMMENCING WATERMAIN CONSTRUCTION.
2. THE CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL NEW PVC WATERMAIN.
3. THE CONTRACTOR SHALL INSTALL CATHODIC PROTECTION AS PER OPSD 1109.0110.
4. THE CONTRACTOR SHALL INSTALL RETAINING GLAND RINGS ON ALL WATERMAIN FITTINGS AND CONNECTIONS WHERE THRUST BLOCKS CANNOT BE CONSTRUCTED ON SOLID GROUND.
5. THE CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL AS PER OPSD 802.010.
6. THE CONTRACTOR SHALL INSTALL ALL WATERMAIN AND SERVICES AT A MINIMUM DEPTH OF 1.80 METRES FROM THE PROPOSED FINISH GRADE TO THE TOP OF PIPE.
7. THE CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER OF 0.50 METRES BELOW OR 0.15 METRES ABOVE.
8. THE CONTRACTOR SHALL INSTALL WATER SERVICES AS PER OPSD 1104.0100, AND AT RIGHT ANGLES TO THE WATERMAIN WHERE POSSIBLE.
9. THE CONTRACTOR SHALL INSTALL THRUST BLOCKS FOR VERTICAL BENDS AS PER OPSD 1103.020. THE CONTRACTOR SHALL INSTALL THRUST BLOCKS FOR HORIZONTAL BENDS AS PER OPSD 1103.010.
10. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO CONDUCTING WATERMAIN TESTING.
11. THE CONTRACTOR SHALL PROVIDE ALL WATERMAIN TESTING RESULTS (INCLUDING CHLORINATION, BACTERIOLOGICAL, PRESSURE AND FLOW) IN ACCORDANCE WITH REGION SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE 2 COPIES OF ALL TEST RESULTS.
12. ONLY REPRESENTATIVES FROM THE TOWNSHIP ARE AUTHORIZED TO OPERATE

CUT CROSS IN CONCRETE GUTTER ON KEELER COURT AT THE INTERSECTION OF KEELER COURT AND MARYANN LANE. CUT CROSS IS ON THE WEST SIDE OF THE ROAD APPROXIMATELY 100m NORTH OF THE INTERSECTION OF ALBINE STREET AND KEELER COURT.

1. ALL CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE

1. THE CONTRACTOR SHALL CONSTRUCT AND MATERIALS TO BE IN ACCORDANCE WITH:  
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9. ALL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED ON THE CONTRACT DRAWINGS ARE TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
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1.	ISSUED FOR 1ST SUBMISSION	JD	2023-04-28
No.	REVISION	BY	DATE



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DESIGNED BY:

APPROVED BY \_\_\_\_\_

DATE: \_\_\_\_\_

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For





EROSION AND SEDIMENT CONTROL SEQUENCING:

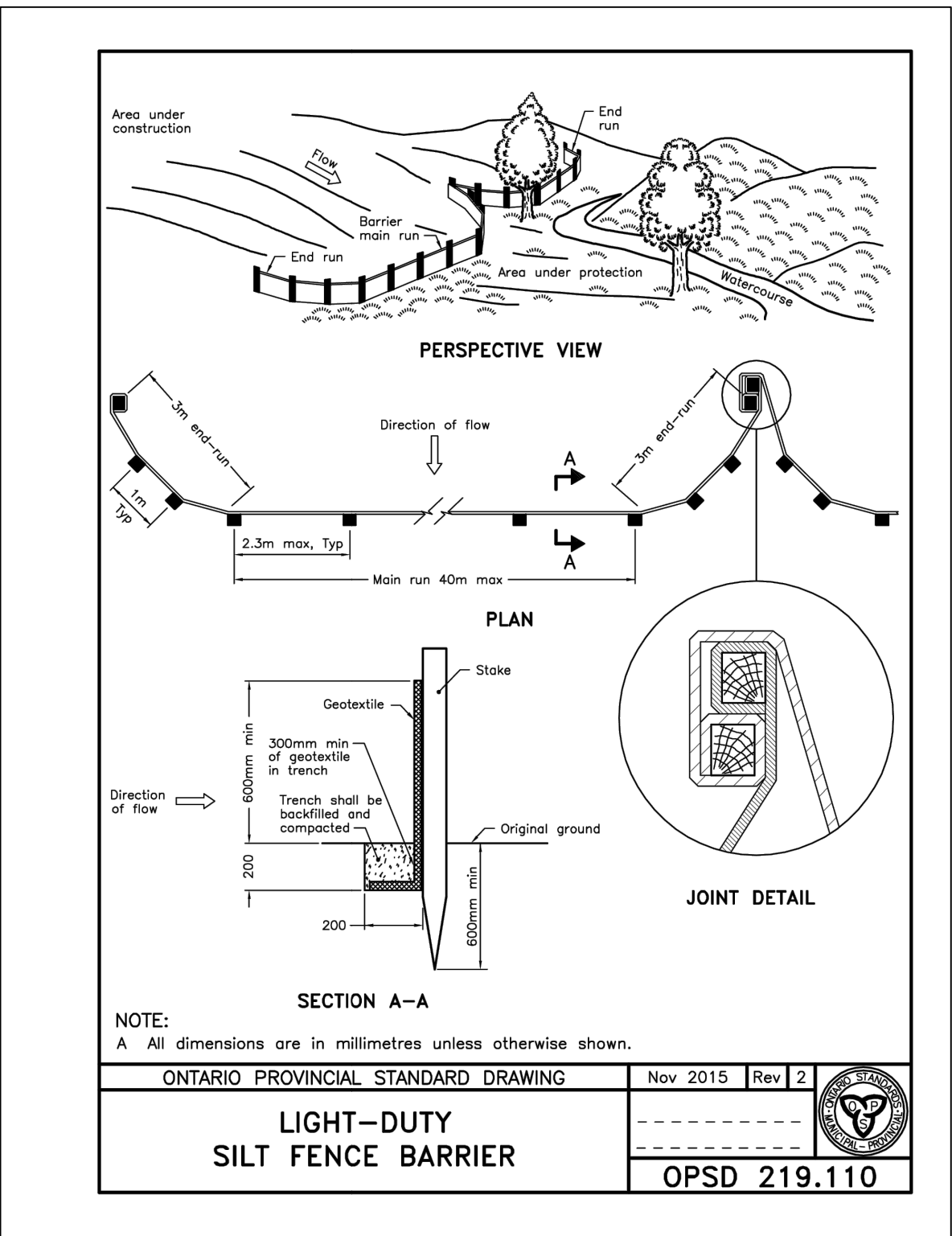
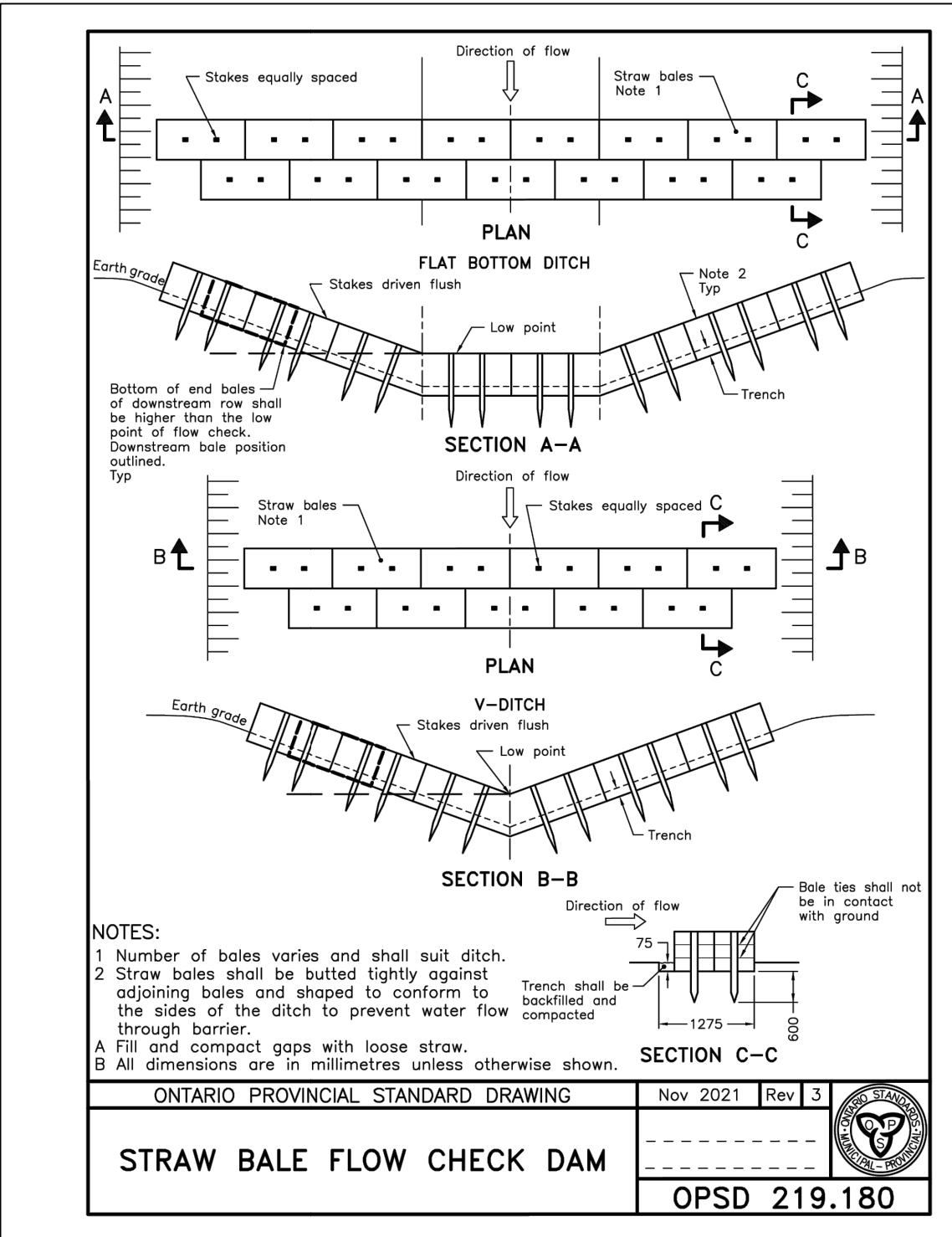
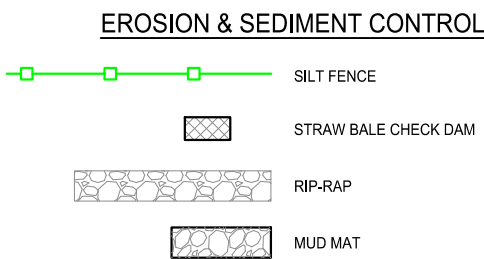
- A. PLACE MUD MAT AT ENTRANCE TO SITE.
- B. PLACE PERIMETER SILT FENCE.
- C. CONSTRUCT CONVEYANCE SWALE AND STRAW BALE CHECK DAMS AS ILLUSTRATED ON ON THIS SHEET.
- D. COMPLETE SUBSTANTIAL SITE CONSTRUCTION. TEMPORARY SEDIMENT PROTECTION DEVICES TO BE UTILIZED ONCE ON SITE CATCHBASIN IS INSTALLED IF SITE IS NOT STABILIZED.
- E. ONCE SITE & BUILDING CONSTRUCTION IS COMPLETE AND SITE VEGETATION HAS BEEN ESTABLISHED, CLEAN OUT SEDIMENT FROM CONVEYANCE SWALE AND REMOVAL EROSION SEDIMENT CONTROL MEASURES.

EROSION & SEDIMENT CONTROL NOTES:

1. THE PROPOSED WORKS SHALL BE CARRIED OUT IN SUCH A MANNER THAT A MINIMUM AMOUNT OF EROSION OCCURS AND SUCH THAT SEDIMENTATION FACILITIES CONTROL ANY EROSION THAT DOES OCCUR.
2. ALL TEMPORARY SILTATION CONTROL DEVICES ARE TO BE CONSTRUCTED BEFORE CONSTRUCTION STARTS AND MAINTAINED FOR THE DURATION OF CONSTRUCTION UNTIL REMOVAL.
3. SEDIMENT ACCUMULATION OF MORE THAN 0.3 METRES IS TO BE REMOVED IMMEDIATELY.
4. INSPECT SILT FENCING AFTER EVERY SIGNIFICANT RAINFALL EVENT AND MAINTAIN AS REQUIRED, OR AT THE DIRECTION OF THE ENGINEER.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MATERIALS (SILT FENCE, CLEAR STONE, ETC.) ARE TO BE KEPT ON SITE FOR EMERGENCIES AND REPAIRS.
6. EROSION AND SEDIMENT CONTROL METHODS ARE TO BE CONTINUOUSLY EVALUATED AND UPGRADES ARE TO BE IMPLEMENTED WHEN NECESSARY.
7. ALL DAMAGED ESC MEASURES WILL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OR SOONER IF ENVIRONMENTAL RECEPTORS ARE AT IMMINENT AND FORESEEABLE RISK OF ADVERSE IMPACT.
8. DISTURBED AREAS LEFT FOR 30 DAYS OR LONGER MUST BE STABILIZED.
9. ENSURE THAT APPROPRIATE RESPONSE IS TAKEN FOR SPILLS AND ANY INCIDENTS ARE PROPERLY DOCUMENTED AND REPORTED.
10. AT THE COMPLETION OF CONSTRUCTION, ANY EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
11. REMOVE SILT FENCE, MUD MAT AND ANY OTHER EROSION/SILTATION CONTROL MEASURES ONCE ALL CONSTRUCTION HAS BEEN COMPLETED AND ALL VEGETATION HAS BEEN ESTABLISHED AND AT THE DIRECTION OF THE ENGINEER.
12. THE CONVEYANCE SWALE SHALL BE CLEARED OF SEDIMENT AT COMPLETION OF CONSTRUCTION.

**BENCHMARK**  
CUT CROSS IN CONCRETE GUTTER ON KEELER COURT AT THE INTERSECTION OF KEELER COURT AND MARYANN LANE. CUT CROSS IS ON THE WEST SIDE OF THE ROAD APPROXIMATELY 100m NORTH OF THE INTERSECTION OF ALBINE STREET AND KEELER COURT.  
**ELEV: 213.160m**

NOTES:



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**INDUSTRIAL DRIVE  
MEDICAL BUILDING**

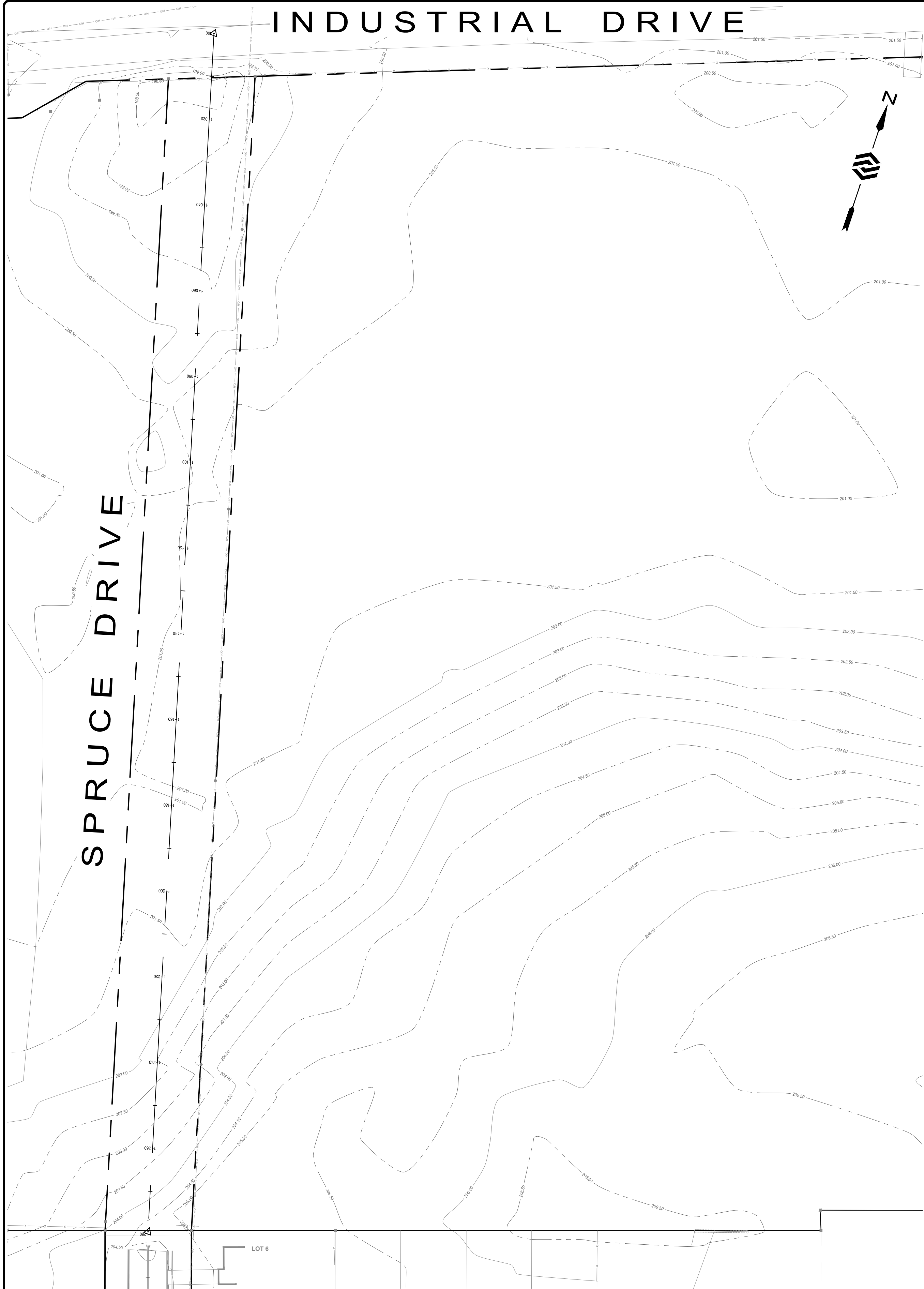
TOWNSHIP OF ASPHODEL-NORWOOD

**EROSION & SEDIMENT  
CONTROL PLAN**

NORWOOD, ONTARIO		STAMP:
DRAWN BY:	J. DUNN	
DESIGNED BY:	J. DUNN	
APPROVED BY:	L. PARSONS	
DATE:	2023-03-29	
SCALE:	1:600	
PROJECT NUMBER:	22056	SHEET NAME: ESC1
		SHEET: 2 of 6

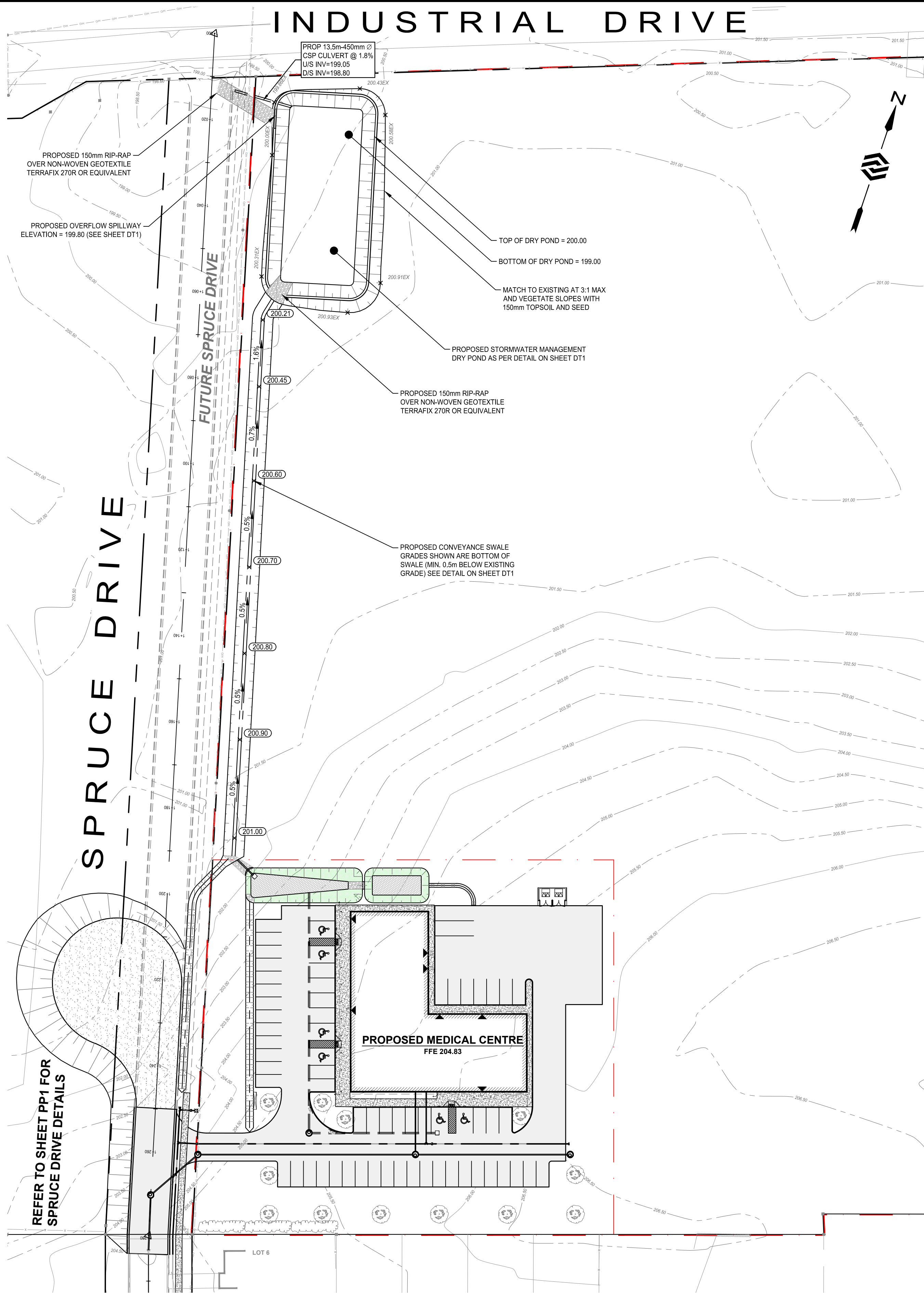


22056-OP1  
Date: Apr 28, 2023 12:29 pm  
Drawn by: J.D. Parsons  
Designed by: J.D. Parsons  
Approved by: L. Parsons  
Project: 22056-OP1 - Industrial Drive Medical Building - Current Drawing: 22056-OP1.dwg



## EXISTING CONDITIONS PLAN VIEW

SCALE: 1:600



## OVERALL PLAN VIEW

SCALE: 1:600

### BENCHMARK

CUT CROSS IN CONCRETE GUTTER ON KEELER COURT AT THE INTERSECTION OF KEELER COURT AND MARYANN LANE. CUT CROSS IS ON THE WEST SIDE OF THE ROAD APPROXIMATELY 100m NORTH OF THE INTERSECTION OF ALBINE STREET AND KEELER COURT.

ELEV: 213.160m

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## INDUSTRIAL DRIVE MEDICAL BUILDING

TOWNSHIP OF ASPHODEL-NORWOOD

## OVERALL PLAN

DRAWN BY:	J. DUNN	STAMP:	
DESIGNED BY:	J. DUNN		
APPROVED BY:	L. PARSONS		
DATE:	2023-03-29		
SCALE:	1:600		
PROJECT NUMBER:	22056	SHEET NAME:	OP1
		SHEET:	3 of 6

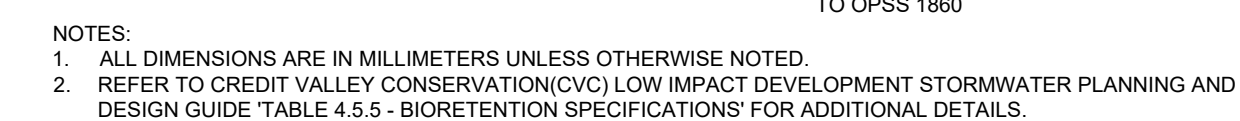
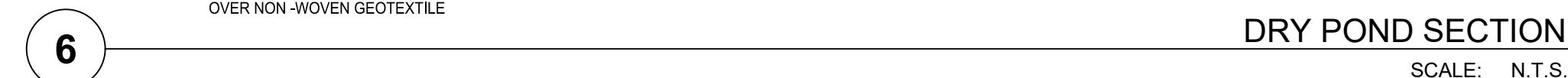
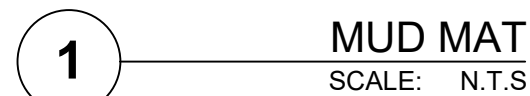












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No.	REVISION	BY	DATE



## INDUSTRIAL DRIVE MEDICAL BUILDING

TOWNSHIP OF ASPHODEL-NORWOOD

## DETAILS

NORWOOD, ONTARIO

DRAWN BY:

J. DUNN

DESIGNED BY:  
LENN

J. BUNN

APPROVED BY:

L. PARSONS

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

2023-03-29

SCALE:

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PROJECT NUMBER:

22056

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STAMP:

LICENSED PROFESSIONAL ENGINEER

*L.T. Parsons*

L.T. PARSONS  
100516860

2023-04-28

PROVINCE OF ONTARIO

NAME:	SHEET:
DT1	6 of 6

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