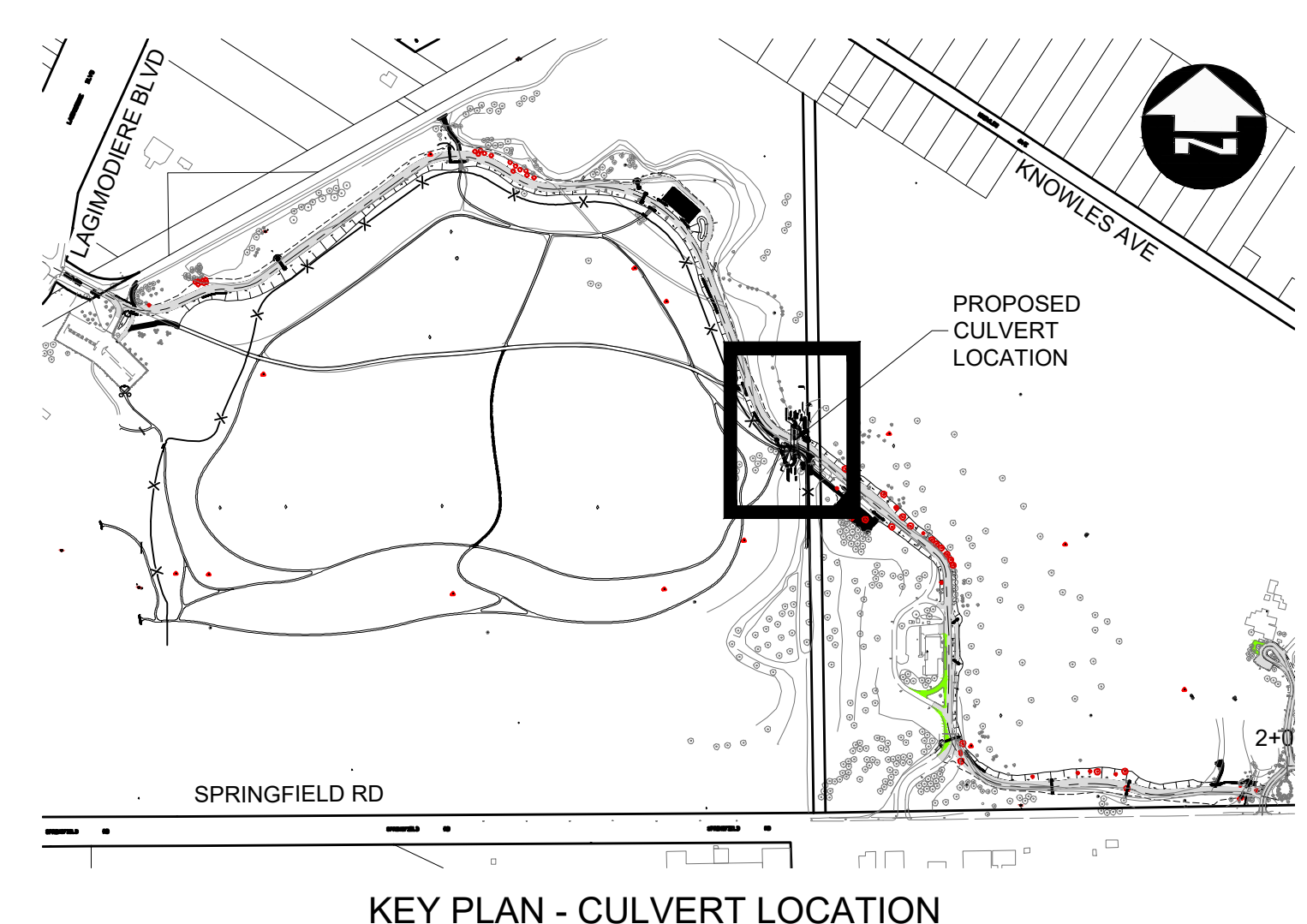
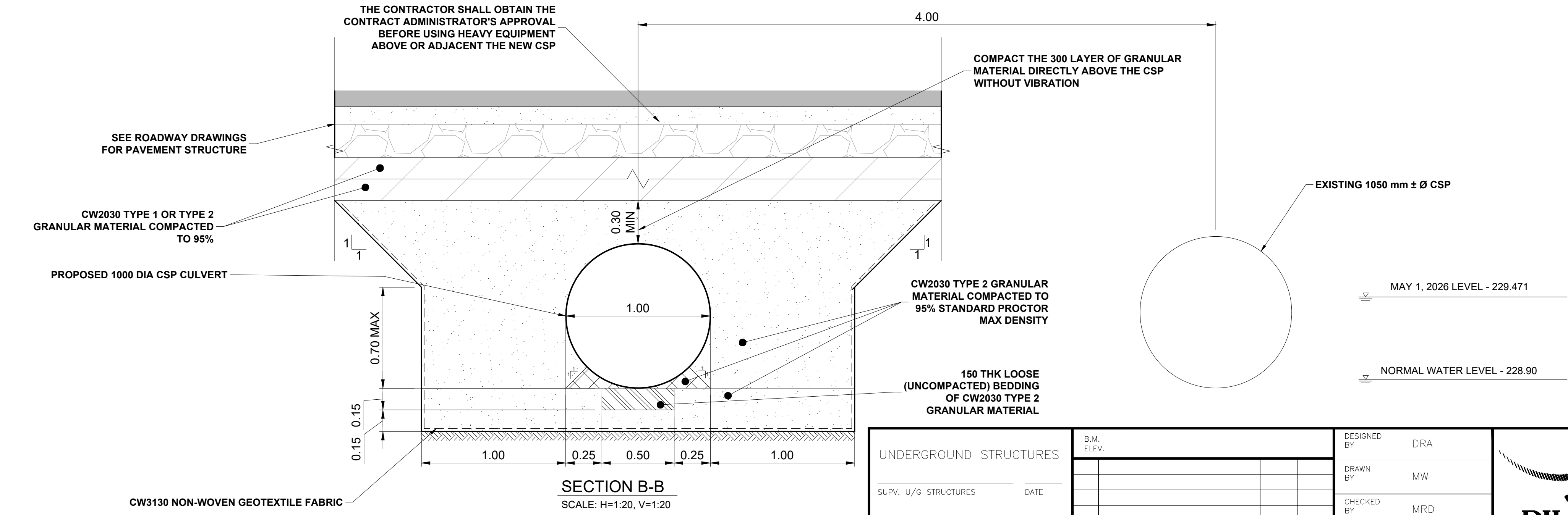
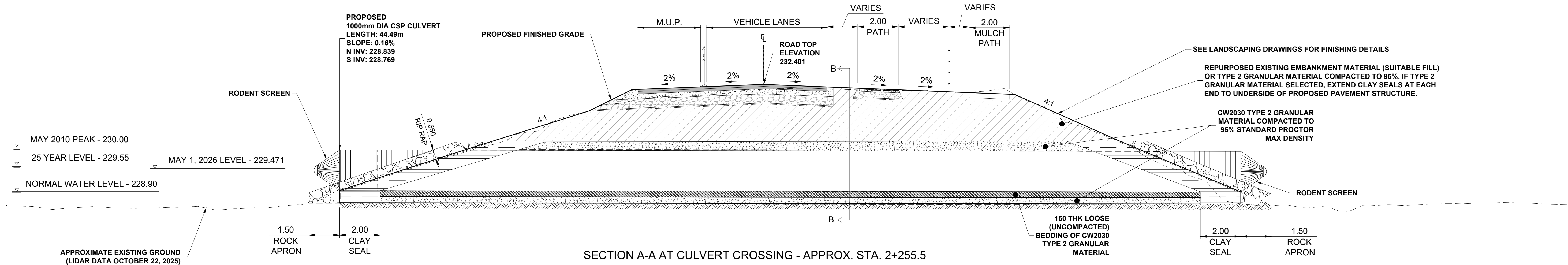
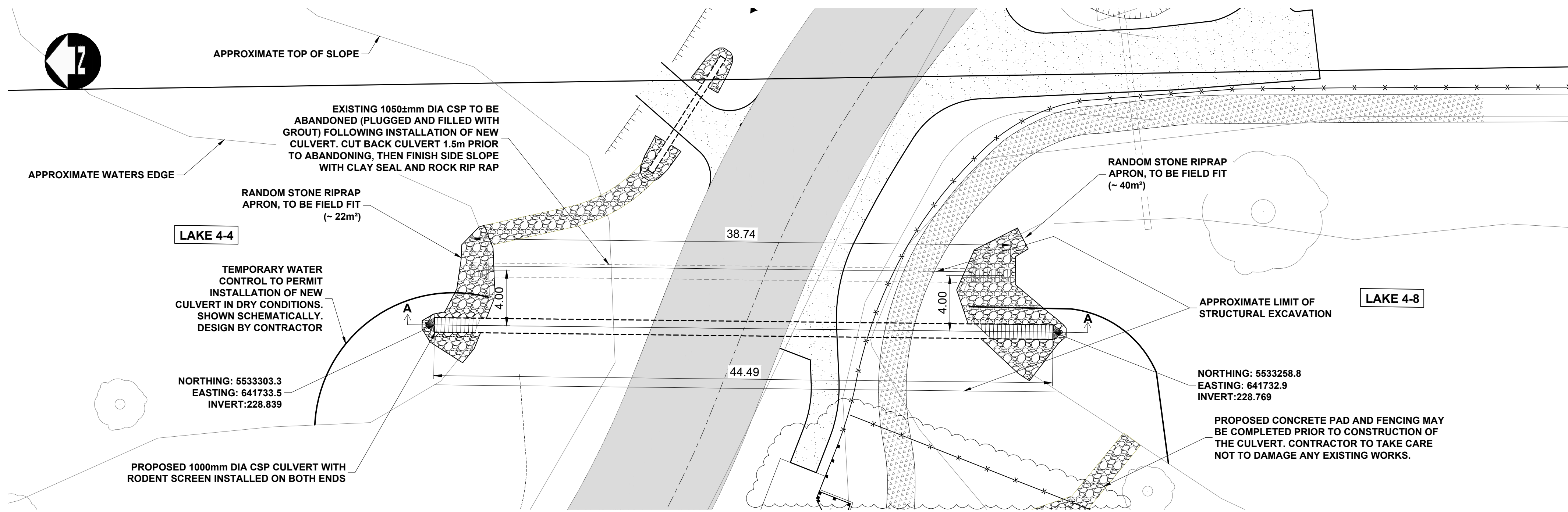


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- GENERAL NOTES
- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
  - LEGAL PLAN AND UNDERGROUND INFORMATION FROM CITY OF WINNIPEG LBIS. CONTRACTOR TO VERIFY ALL UNDERGROUNDS IN THE FIELD.
  - CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO AVOID DAMAGE FROM CONSTRUCTION ACTIVITIES TO TREES WITHIN THE LIMITS OF CONSTRUCTION AS OUTLINED IN THE SPECIFICATIONS.
  - LOCATION OF EXISTING SERVICES TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
- MATERIAL SPECIFICATIONS
- CSP: 1000mm DIAMETER CORRUGATED STEEL PIPE (CSP), 2.0mm DESIGN THICKNESS, COMPLETE WITH COUPLERS, FITTINGS, AND RODENT SCREENS, ALL HOT DIP GALVANIZED.
  - RODENT SCREENS: ARMTEC FLOW GUARD BEAVER CONTROL OR APPROVED EQUAL.
  - BEDDING & INITIAL BACKFILL: BEDDING AND BACKFILL TO A MINIMUM OF 300mm ABOVE THE TOP OF PROPOSED CULVERT SHALL BE TYPE 2 GRANULAR MATERIAL IN ACCORDANCE WITH CW 2030.
  - REMAINING BACKFILL: BACKFILL BEYOND 300mm ABOVE THE TOP OF PROPOSED CULVERT (TO THE U/S OF THE PAVEMENT STRUCTURE) SHALL BE REPURPOSED EXISTING EMBANKMENT MATERIAL (SUITABLE FILL) OR TYPE 2 GRANULAR MATERIAL IN ACCORDANCE WITH CW 2030. IF GRANULAR MATERIAL SELECTED, EXTEND CLAY SEALS AT EACH END TO UNDERSIDE OF PROPOSED PAVEMENT STRUCTURE.
  - CLAY SEAL: IMPERVIOUS CLAY IN ACCORDANCE WITH CW 3310 AND AS ACCEPTED BY THE CONTRACT ADMINISTRATOR.
  - GEOTEXTILE: NON-WOVEN GEOTEXTILE SHALL BE IN ACCORDANCE WITH CW 3130.
  - ROCK APRON: ROCK SHALL BE RANDOM STONE RIPRAP IN ACCORDANCE WITH CW 3615.
  - GROUT (CULVERT ABANDONMENT): FLOWABLE CEMENT STABILIZED FILL IN ACCORDANCE WITH CW 3160.
- CONSTRUCTION SEQUENCE
- INSTALL TEMPORARY WATER CONTROL (DESIGNED BY CONTRACTOR) TO ISOLATE THE PROPOSED CULVERT LOCATION TO PERMIT WORK TO OCCUR IN THE DRY.
  - EXCAVATE, INSTALL PROPOSED CULVERT, AND BACKFILL IN ACCORDANCE WITH CW 3160.
  - ONCE PROPOSED CULVERT COMPLETED, SHIFT TEMPORARY WATER CONTROL TO ISOLATE THE EXISTING CSP CULVERT.
  - CUT BACK EXISTING CSP CULVERT 1.5m, PLUG, AND GROUT FILL PRIOR TO RESTORING THE SIDE SLOPE WITH CLAY SEAL AND ROCK RIPRAP.

|                                                                                                                                                                                                                                                                                                                                                  |  |                     |    |                     |     |                                                                                       |                 |                                                                                                                                              |                                                                                 |                                   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|----|---------------------|-----|---------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------|--|
| UNDERGROUND STRUCTURES                                                                                                                                                                                                                                                                                                                           |  | B.M. ELEV.          |    | DESIGNED BY DRA     |     |  | ENGINEER'S SEAL |  <b>THE CITY OF WINNIPEG</b><br>PUBLIC WORKS DEPARTMENT | <b>KILCONA PARK ROADWAY CONSTRUCTION AND HARBOURVIEW ROADWAY RECONSTRUCTION</b> | CITY DRAWING NUMBER               |  |
| SUPV. U/G STRUCTURES DATE                                                                                                                                                                                                                                                                                                                        |  |                     |    | DRAWN BY MW         |     |                                                                                       |                 |                                                                                                                                              |                                                                                 | SHEET 28 OF 48                    |  |
|                                                                                                                                                                                                                                                                                                                                                  |  |                     |    | CHECKED BY MRD      |     |                                                                                       |                 |                                                                                                                                              |                                                                                 | CONSULTANT PROJECT NUMBER 25-2191 |  |
|                                                                                                                                                                                                                                                                                                                                                  |  |                     |    | APPROVED BY DBW     |     |                                                                                       |                 |                                                                                                                                              |                                                                                 |                                   |  |
| LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. |  |                     |    | HOR. SCALE AS NOTED |     | RELEASED FOR CONSTRUCTION                                                             |                 | 1000 DIA CULVERT<br>GENERAL ARRANGMENT                                                                                                       | CONSULTANT DRAWING NUMBER                                                       |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                  |  |                     |    | VERTICAL —          |     | DATE                                                                                  |                 |                                                                                                                                              |                                                                                 |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                  |  | 1 ISSUED FOR TENDER |    | 26/06/26            | DBW | DATE                                                                                  |                 |                                                                                                                                              | 25-2191                                                                         |                                   |  |
| NO. REVISIONS                                                                                                                                                                                                                                                                                                                                    |  | DATE                | BY | DATE                |     |                                                                                       |                 |                                                                                                                                              |                                                                                 |                                   |  |