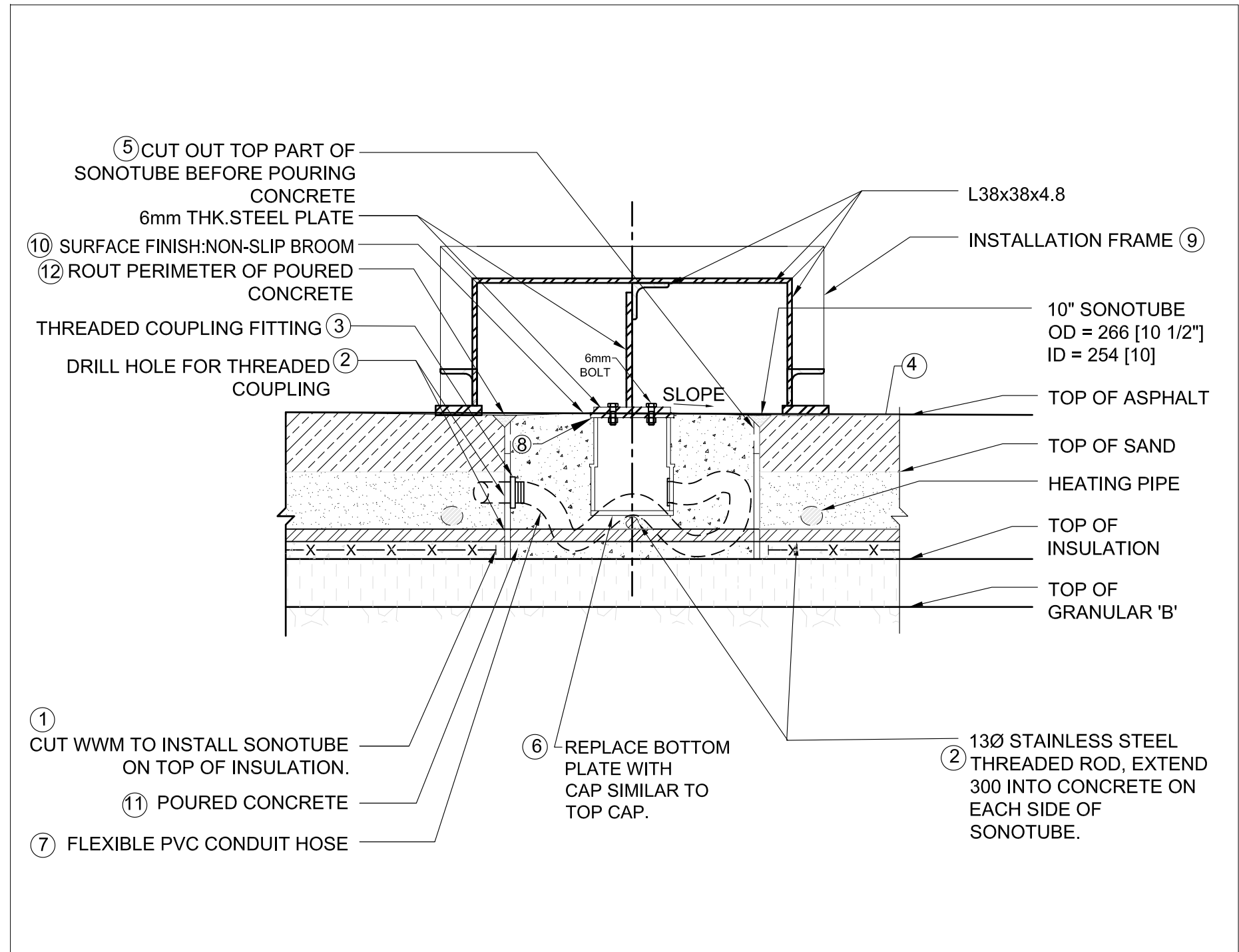
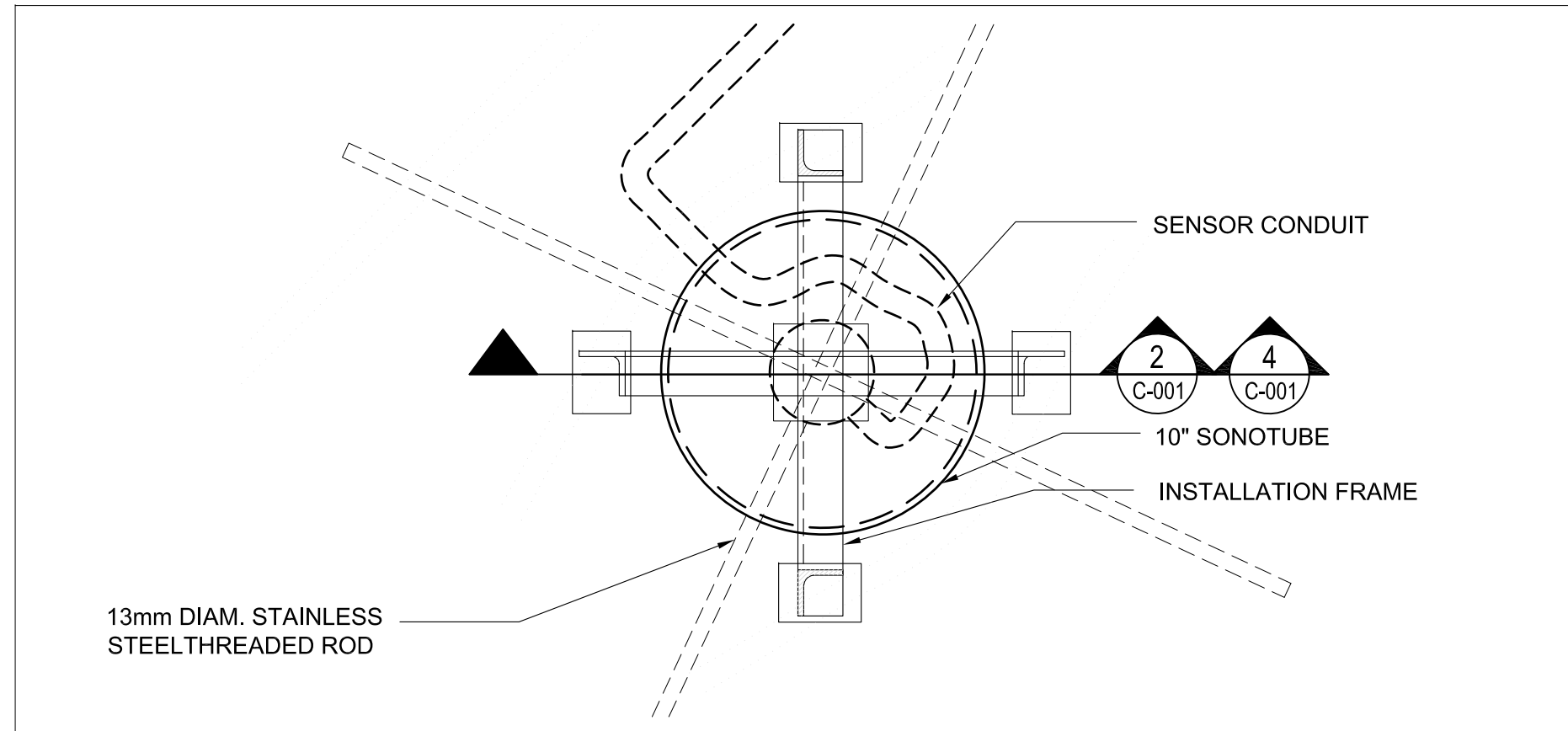


2 SNOW/ICE SENSOR INSTALLATION SECTION (TOP OF CONCRETE)



4 SNOW/ICE SENSOR INSTALLATION SECTION (TOP OF ASPHALT)



1 SNOW/ICE SENSOR INSTALLATION PLAN

GENERAL NOTES

A. GENERAL

- THESE DRAWINGS SHOW STRUCTURAL CONTENT ONLY. SEE DRAWINGS OF OTHER DISCIPLINES FOR LIFE SAFETY, ARCHITECTURAL, MECHANICAL AND ELECTRICAL.
- READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
- BEFORE PROCEEDING WITH WORK, VERIFY ALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS WITH ACTUAL DIMENSIONS OF EXISTING STRUCTURE. REPORT ANY DISCREPANCIES TO ENGINEER BEFORE PROCEEDING WITH WORK.
- ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE METRIC. ALL LEVELS, UNLESS OTHERWISE NOTED, ARE IN mm. NO NOT SCALE DRAWINGS.
- THESE DRAWINGS SHOW THE COMPLETED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THE JOB SITE; AND DESIGN, INSTALLATION AND SUPERVISION OF ALL TEMPORARY BRACING, SHORING, FORM WORK AND FALSE WORK, REQUIRED TO COMPLETE THE WORK.
- THE USE OF THESE DRAWINGS SHALL BE STRICTLY LIMITED TO THE INSTRUCTIONS IN THE REVISION BLOCK. BUILDING FROM THESE DRAWINGS SHALL PROCEED ONLY WHEN "ISSUED FOR CONSTRUCTION".

B. CODES AND STANDARDS

- PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE (LATEST VERSION).
- COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (LATEST EDITION).

C. MATERIAL AND DESIGN DATA

- STRUCTURAL STEEL FRAMING: CONFORM TO CAN/CSA-G40.20 AND G40.21. GRADE 350W. ANGLES, CHANNELS AND PLATE SHALL BE GRADE 300W.
- WELDING OF STEEL STRUCTURE: CONFORM TO CSA STANDARD W59. WELDING SHALL BE PERFORMED BY A COMPANY CERTIFIED UNDER CSA W47.1.
- CONCRETE: CONFORM TO THE REQUIREMENTS OF CAN/CSA-A23.1-04 - CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION. OPTION 1: 'CRACK CONTROL CONCRETE', BY KING (KPM INDUSTRIES), OR APPROVED EQUAL. OPTION 2: CLASS C1. AGGREGATE SIZE 10 mm, 35 MPa, AIR CONTENT 6-9%. CONCRETE FINISH FOR BOTH OPTIONS: NONSLIP, BROOM FINISH AS PER CSA A23.1-04 7.5.6.1(b).
- EDGE SEALANT: HOT Poured RUBBERIZED ASPHALT JOINT SEALING COMPOUND ACCORDING TO ASTM D 6690.

D. SITE REVIEW RESPONSIBILITIES

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT.
- OEI SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

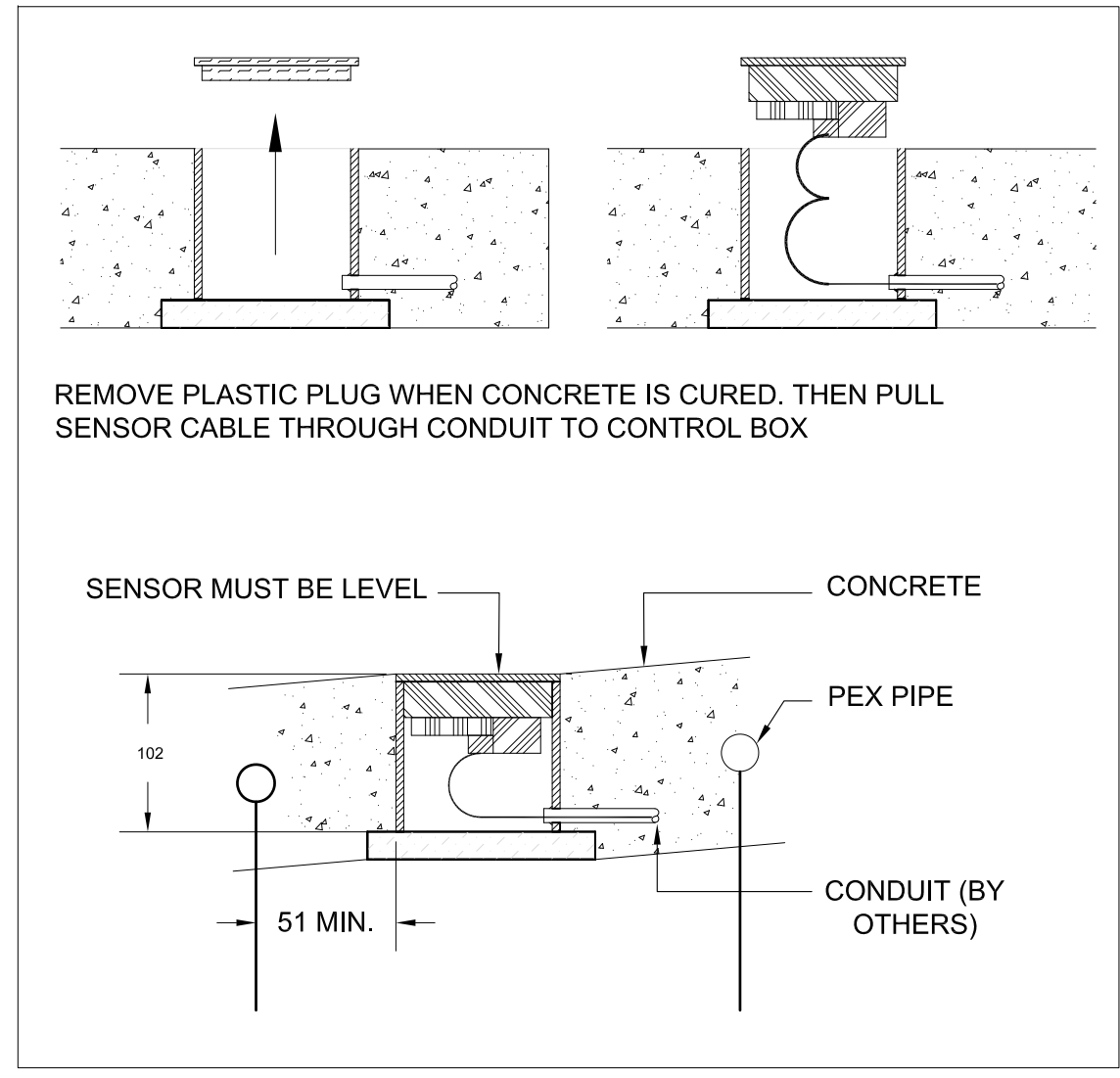
CONSTRUCTION NOTES

A. STRUCTURAL STEEL FOR INSTALLATION FRAME

- ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-216.01 - LIMIT STATES DESIGN OF STEEL STRUCTURES.
- ALL CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR UNLESS OTHERWISE NOTED.
- STEEL SIZES SHOWN ON PLANS AND DETAILS ARE STANDARD CANADIAN METRIC SIZES.
- COMPANIES ENGAGED IN WELDING SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA W47.1. COMPANIES SHALL HAVE WELDING PROCEDURES APPROVED AND WELDERS QUALIFIED FOR THE BASE MATERIAL TYPES AND THICKNESSES THAT ARE TO BE WELDED.
- ALL WELDS AND OTHER CONNECTIONS SHALL BE INSPECTED BY CERTIFIED WELDING INSPECTOR.

SENSOR INSTALLATION PROCEDURE:

- CUT WWM
- DRILL HOLES IN SONOTUBE FOR THREADED RODS AND THREADED COUPLING. PLACE THREADED RODS THROUGH SONOTUBE. PLACE SONOTUBE WITH RODS ON INSULATION.
- ATTACH THREADED COUPLING AND CONDUIT PIPING TO SONOTUBE.
- COMPACT/ROLL CONCRETE OR ASPHALT.
- CUT OUT TOP PART OF SONOTUBE.
- REPLACE BOTTOM PLATE OF SENSOR CASING WITH CAP SIMILAR TO TOP CAP.
- ATTACH FLEXIBLE PVC CONDUIT HOSE FROM THREADED COUPLING TO SENSOR CASING AND SECURE.
- ATTACH TOP CAP TO SENSOR CASING, AND INSTALLATION FRAME.
- LOWER FRAME ON CONCRETE, CENTER SENSOR, AND SHIM ONE LEG IF NECESSARY.
- POUR CONCRETE, COMPACT WELL, SURFACE FINISH: NON-SLIP BROOM.
- CURE CONCRETE MIN. 3 DAYS.
- ROUT PERIMETER OF Poured CONCRETE AND SEAL WITH HOT Poured RUBBERIZED SEALING COMPOUND.



3 SNOW/ICE SENSOR DETAIL

NOTE: THIS DRAWING IS PROVIDED FOR INSTRUCTIONAL DESIGN PURPOSES ONLY BASED ON METROLINX GO TRANSIT DESIGN GUIDELINES AND REQUIREMENTS. THE CONSULTANT SHALL VERIFY FOR LOCAL CODE COMPLIANCE, EXISTING SITE CONDITIONS AND INTER DISCIPLINARY DRAWING COORDINATION. ALL DIMENSIONS AND SPECIFICATIONS SHOULD BE VERIFIED BY CONSULTANT AND/OR CONTRACTOR BEFORE ACTUAL CONSTRUCTION BEGINS.

METROLINX PROJECT NO. XXXXXX

REFERENCE DRAWINGS	ISSUE	REVISIONS	DRAWN BY: X.X.X YY/MM/DD	DESIGNED BY: YY/MM/DD	METROLINX	SNOW/ICE SENSOR INSTALLATION AT TOP OF CONCRETE/ASPHALT DETAIL			
			CHECKED BY: YY/MM/DD	APPROVED BY: YY/MM/DD					
			SCALE: N.T.S	FULL SIZE ONLY					
DWG NO.	TITLE	NO. DATE	ISSUED FOR	REV. DATE		CONTRACT NO. XX-200X-EN-XXX	DWG. NO. M-406	REV. 1	SHEET

1 2020/02/03 ADD DETAIL 4: TOP OF ASPHALT