



Public Works
Government Services
Canada

Architectural and
Engineering Services

Ontario Region

Travaux publics
Services gouvernementaux
Canada

Services d'architecture
et de génie

Région de l'Ontario

LIST OF DRAWINGS

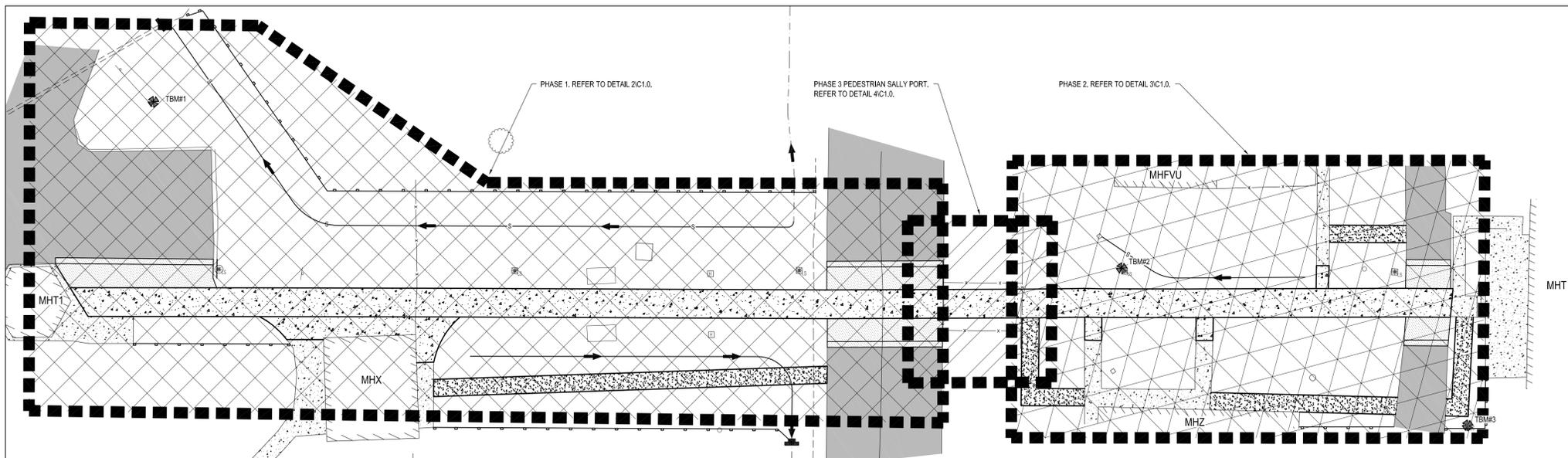
SITE

C1.0	PHASING
C1.1	REMOVALS, SITE PLAN AND DETAILS
S0.1	GENERAL NOTES AND DETAILS
S1.2	REPAIR PLAN
S1.1	SECTIONS
E1.1	ENTRANCE CANOPY ELECTRICAL PLANS

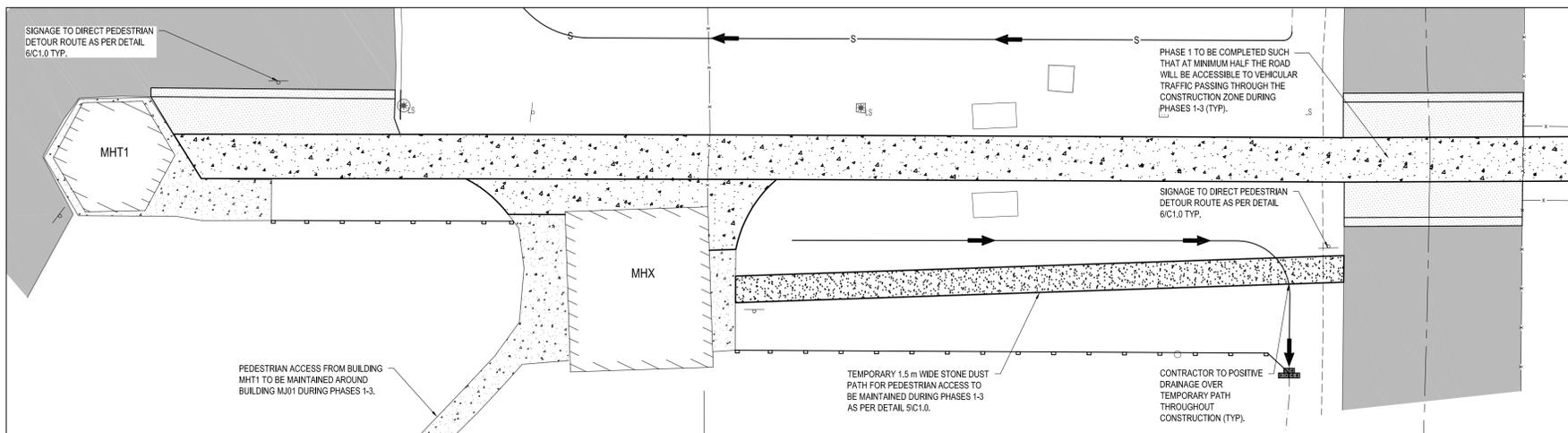
MILLHAVEN, ONTARIO.

MILLHAVEN INSTITUTION WALKWAY RESTORATION AND TUNNEL WATERPROOFING PWGSC Proj. No.: R.093606.001

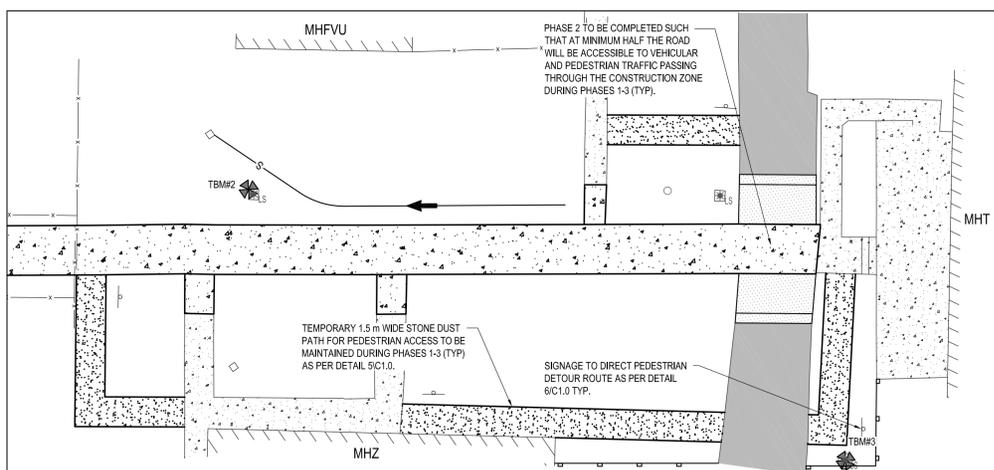




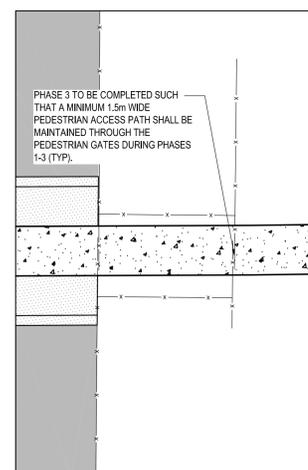
1 PHASE PLAN OVERVIEW
SCALE: 1:200



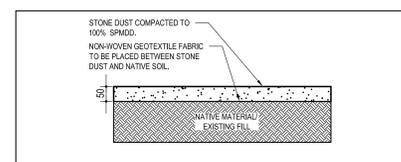
2 PHASE 1 TEMPORARY ACCESS
SCALE: 1:150



3 PHASE 2 TEMPORARY ACCESS
SCALE: 1:150



4 PHASE 3 TEMPORARY ACCESS
SCALE: 1:150



5 TYPICAL TEMPORARY PATH STRUCTURE
SCALE: N.T.S.



6 PHASING PEDESTRIAN SIGNAGE
SCALE: N.T.S.

PHASING NOTES

GENERAL PHASING NOTES

1. PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING THE WALKWAY RECONSTRUCTION AND TUNNEL WATERPROOFING. TEMPORARY ACCESS ROUTES SHALL BE CONSTRUCTED WITH STONE DUST COMPLETE WITH A GEOTEXTILE UNDERLAY COMPACTED TO 100% SPMDD. THE TEMPORARY ACCESS ROUTES SHALL BE MAINTAINED THROUGHOUT THE APPLICABLE PHASES TO CONTINUOUSLY ALLOW FOR WHEELCHAIR AND HOSPITAL STRETCHER ACCESS. THE CONTRACTOR IS RESPONSIBLE TO COMPLETELY REMOVE THE TEMPORARY ACCESS ROUTES AND MAKE GOOD ANY DAMAGE TO EXISTING SITE.
2. SIGNAGE SHALL BE PLACED TO DIRECT PEDESTRIANS AND VEHICLES TO THE APPLICABLE TEMPORARY ACCESS ROUTES. SIGNAGE SHALL BE IN ACCORDANCE WITH OTM BOOKS 2 & 7. THE CONTRACTOR SHALL SUBMIT PHASING AND SIGNAGE PLANS THAT ARE ACCEPTABLE TO THE DEPARTMENTAL REPRESENTATIVE.

PHASE 1

1. PHASE 1 WORK CONSISTS OF THE WALKWAY RECONSTRUCTION AND TUNNEL WATERPROOFING BETWEEN BUILDING MHT1 AND THE PEDESTRIAN SALLY PORT, REFER TO DRAWING C1.0.
2. PEDESTRIAN ACCESS FROM BUILDING MHT1 WILL BE MAINTAINED AROUND BUILDING M01 USING THE EXISTING PATHWAY TO BUILDING MHX.
3. A 1.5M TEMPORARY ACCESS ROUTE AS DETAILED ABOVE SHALL BE PLACED FOR PEDESTRIAN ACCESS FROM BUILDING MHX TO THE FIRST PEDESTRIAN GATE. THIS TEMPORARY ACCESS ROUTE SHALL BE MAINTAINED AT ALL TIMES DURING THE WORK.
4. THE CONTRACTOR IS TO PHASE THE WORK SUCH THAT AT MINIMUM, HALF THE ROAD WILL BE ACCESSIBLE TO VEHICULAR TRAFFIC PASSING THROUGH THE CONSTRUCTION ZONE.

PHASE 2

1. PHASE 2 WORK CONSISTS OF THE WALKWAY RECONSTRUCTION AND TUNNEL WATERPROOFING BETWEEN THE PEDESTRIAN SALLY PORT AND BUILDING MHT, REFER TO DRAWING C1.0.

NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF ALL BURIED SERVICES PRIOR TO START OF CONSTRUCTION.
2. TOPOGRAPHIC INFORMATION PROVIDED BY WSP CANADA INC. ELEVATIONS ARE GEODETIC.
3. ALL DISTURBED AREAS TO BE RESTATED USING 100mm OF TOPSOIL AND SOD UNLESS OTHERWISE NOTED.
4. REFER TO STRUCTURAL DRAWINGS FOR TUNNEL WATERPROOFING DETAILS.
5. CIVIL CONTRACTOR SHALL PROVIDE ALL NECESSARY EXCAVATION.
6. CIVIL CONTRACTOR TO COMPLETE THREE (3) TEST DIGS TO VERIFY EXISTING TUNNEL MEMBRANE PRIOR TO PHASE 1 WORKS.
7. CONTRACTOR TO REVIEW SITE ACCESS CONSTRAINTS.

TEMPORARY BENCHMARKS (TBM)

- TBM #1 - CONCRETE BASE OF MILLHAVEN SIGN - ELEVATION = 96.50m
- TBM #2 - CONCRETE BASE OF LIGHT STANDARD - ELEVATION = 96.05m
- TBM #3 - CONCRETE BASE OF LIGHT STANDARD - ELEVATION = 95.94m

LEGEND:

- EXISTING ROAD CENTERLINE
- EDGE OF ASPHALT REMOVAL
- EXISTING EDGE OF ASPHALT
- NEW EDGE OF ASPHALT
- CURB REMOVAL
- EXISTING CURB
- NEW CURB
- EXISTING GRAVEL SHOULDER
- EXISTING DITCH CENTERLINE
- EXISTING FENCE LINE
- NEW SWALE CENTERLINE
- EXISTING FLOWER BED
- SILT FENCE
- STRAW BALE CHECK DAM
- EXISTING CATCH BASIN
- #1#
- EXISTING LIGHT STANDARD
- EXISTING UTILITY PEDESTAL
- EXISTING SIGN
- TEMPORARY BENCHMARK
- TEMPORARY DETOUR SIGN
- EXISTING TREE
- EXISTING CULVERT
- EXISTING BLDG
- ASPHALT MILLING
- ASPHALT REMOVAL
- EXISTING ASPHALT
- NEW ASPHALT
- CONCRETE REMOVAL
- EXISTING CONCRETE
- NEW CONCRETE
- TEMPORARY STONE DUST PATH



04		
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A B C	A Detail no. du détail
	B drawing no. - where detail required dessin no. - où détail exigé
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project title
titre du projet
MILLHAVEN PUBLIC WORKS ONTARIO

WALKWAY RESTORATION AND TUNNEL WATERPROOFING

drawing title
titre du dessin
PHASING

drawn by
dessiné par **STR**

designed by
conçue par **BH**

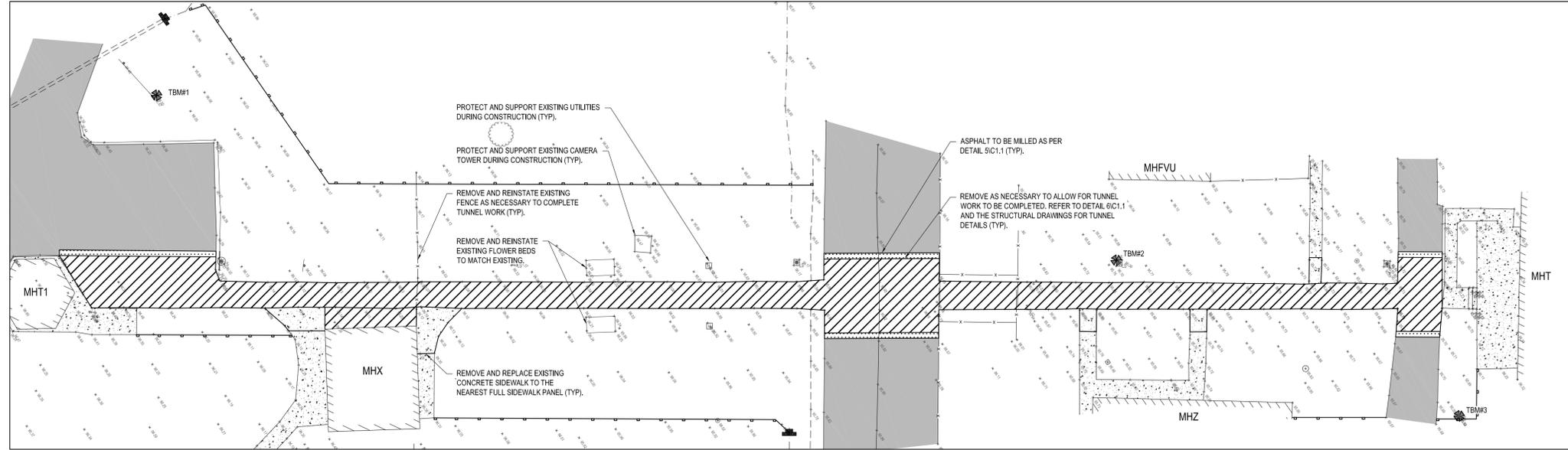
approved by
approuvé par **MF, KC**

bid offre project manager
administrateur de projets

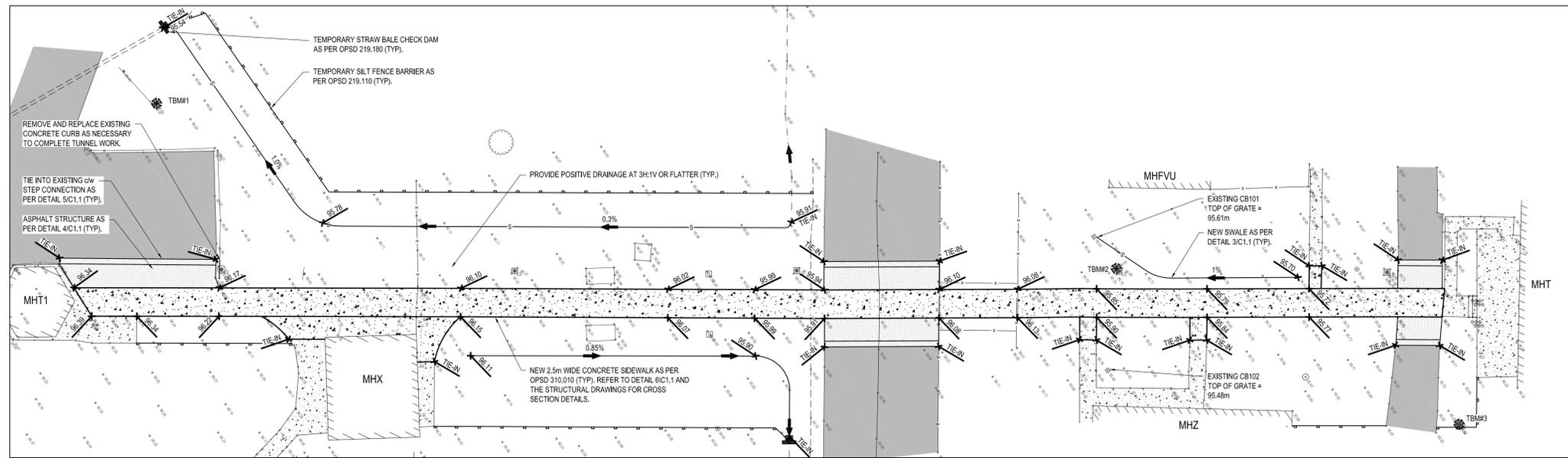
project date
date du projet **2018-05-11**

project no.
no. du projet **R.093606.001**

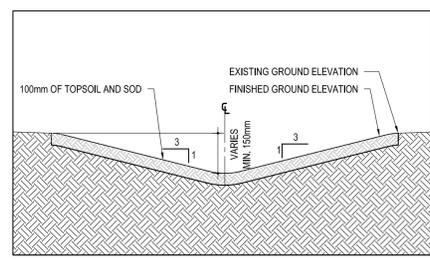
drawing no.
dessiné no. **C1.0**



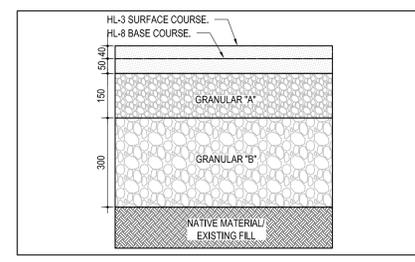
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SCALE: 1:200



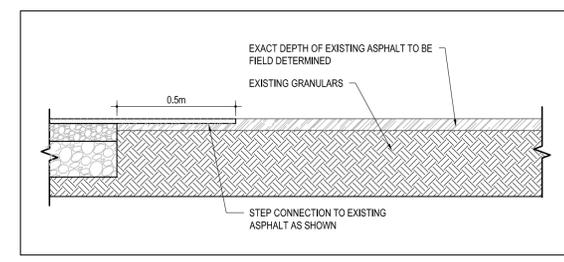
2 SITE PLAN
SCALE: 1:200



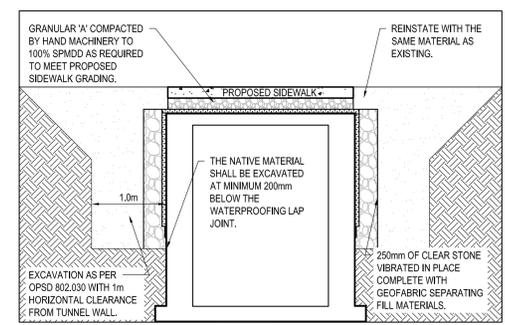
3 TYPICAL SWALE CROSS-SECTION DETAIL
SCALE: N.T.S.



4 TYPICAL ASPHALT STRUCTURE DETAIL
SCALE: N.T.S.



5 TYPICAL STEP CONNECTION DETAIL TO EXISTING ASPHALT
SCALE: N.T.S.



6 TYPICAL TUNNEL EXCAVATION & CROSS SECTION
SCALE: N.T.S.

NOTES:

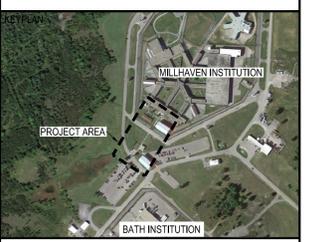
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- ASPHALT REMOVAL
- EXISTING ASPHALT
- NEW ASPHALT
- CONCRETE REMOVAL
- EXISTING CONCRETE
- NEW CONCRETE



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C	drawing no. - where detailed	dessin no. - où détaillé

project title / titre du projet: **MILLHAVEN PUBLIC WORKS** ONTARIO

WALKWAY RESTORATION AND TUNNEL WATERPROOFING

drawing title / titre du dessin: **REMOVALS, SITE PLAN AND DETAILS**

drawn by / dessiné par: **STR**

designed by / conçu par: **BH**

approved by / approuvé par: **MF, KC**

bid / offre: project manager / administrateur de projets

project date / date du projet: **2018-05-11**

project no. / no. du projet: **R.093606.001**

drawing no. / dessiné no.: **C1.1**

GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL LENGTHS ARE IN MILLIMETERS.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS. CONFIRM ALL DIMENSIONS, ELEVATIONS AND HEADROOM CLEARANCES, AND COORDINATE ALL OPENINGS, SLEEVES AND EMBEDDED ITEMS.
- REPORT ANY DISCREPANCIES OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION FROM DEPARTMENTAL REPRESENTATIVE.
- EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY J.L. RICHARDS, DEC. 1, 1967, DRAWING F28 & F29.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- DO NOT SCALE THESE DRAWINGS.
- ALL SECTIONS, DETAILS AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE / SIMILAR CONDITIONS IN THE STRUCTURE.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT, INCLUDING TEMPORARY SHORING, BRACING, GUYS AND TIE DOWNS. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
- IN CASE OF DISCREPANCY BETWEEN GENERAL NOTES, DRAWINGS AND SPECIFICATIONS, COMPLY WITH THE MOST STRINGENT REQUIREMENTS.
- SUBMIT ELECTRONIC SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO PRIOR TO COMMENCING FABRICATION. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS.
- WSP WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE WSP A GUARANTOR OF THE CONTRACTOR'S WORK.

DESIGN DATA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (OBC) SUPPLEMENTED BY THE USER'S GUIDE - NBC 2010 STRUCTURAL COMMENTARIES.
- CONCRETE ELEMENTS ARE DESIGNED PER CSA A23.3-14 - DESIGN OF CONCRETE STRUCTURES.

CAST-IN-PLACE CONCRETE

- CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION, AS OUTLINED IN CSA A23.1. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
 - CONTRACTOR AND CONCRETE SUPPLIER TO ENSURE THAT PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING AND THE SPECIFIED PERFORMANCE REQUIREMENTS.
 - UNLESS NOTED OTHERWISE, CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
- | MIX NUMBER - TYPE / USE OF CONCRETE | EXPOSURE CLASS | MIN. 28-DAY COMPRESS. STRENGTH | MAX. W/C RATIO | MAX. AIR CONTENT (%) | MAX. AGG. SIZE (MM) | MAX. SLUMP (MM) |
|---|----------------|--------------------------------|----------------|----------------------|---------------------|-----------------|
| MIX 1 - UNREINFORCED EXTERIOR SIDEWALKS AND CURBS | C-2 | 32 | 0.45 | 5-8 | 20 | 80 ± 30 |
- CONCRETE SUPPLIER TO BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF ONTARIO.
 - CEMENT TO BE PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS.
 - CONCRETE TO BE NORMAL DENSITY (MIN. 2300 KG/M³) UNLESS NOTED OTHERWISE.
 - WHERE REQUIRED BY SPECIFICATIONS, PROVIDE MINIMUM AMOUNT OF SUPPLEMENTAL CEMENTING MATERIALS SPECIFIED FOR THE OVERALL PROJECT.
 - CONVEY CONCRETE FROM TRUCK TO FINAL LOCATION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIAL. MAXIMUM FREE FALL NOT TO EXCEED 1.5M (5'-0"). CONSOLIDATE CONCRETE USING MECHANICAL VIBRATORS.
 - PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1.
 - PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1.
 - CONCRETE TO BE CURED BY CURING COMPOUNDS COMPATIBLE WITH APPLIED FINISH ON CONCRETE SURFACES FREE OF BONDING AGENTS AND TO CSA A23.1/A23.2.

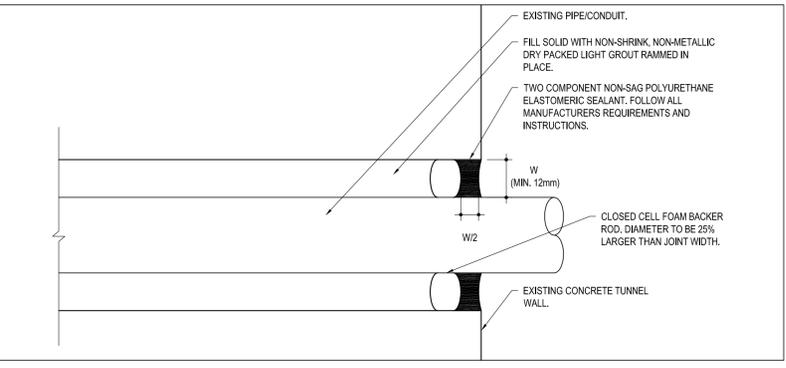
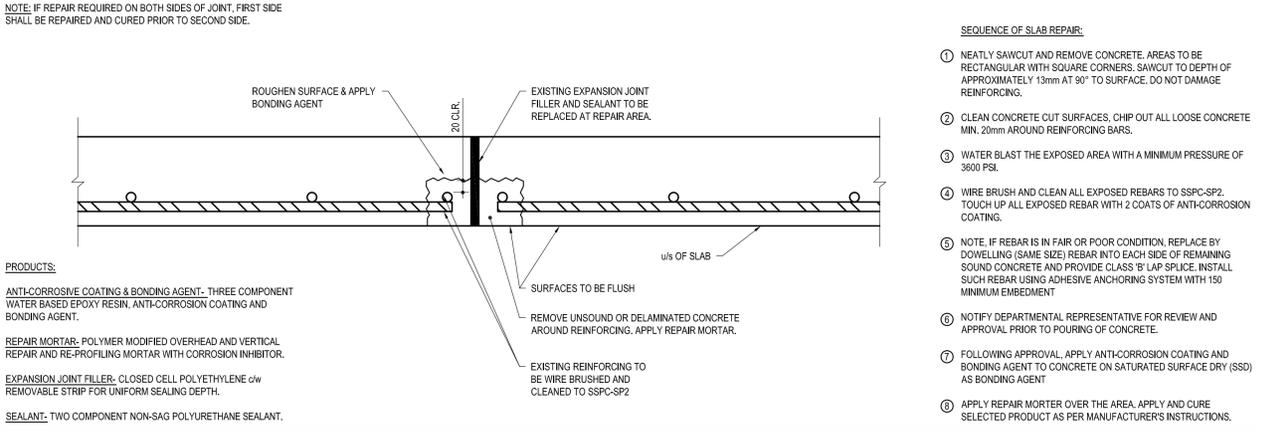
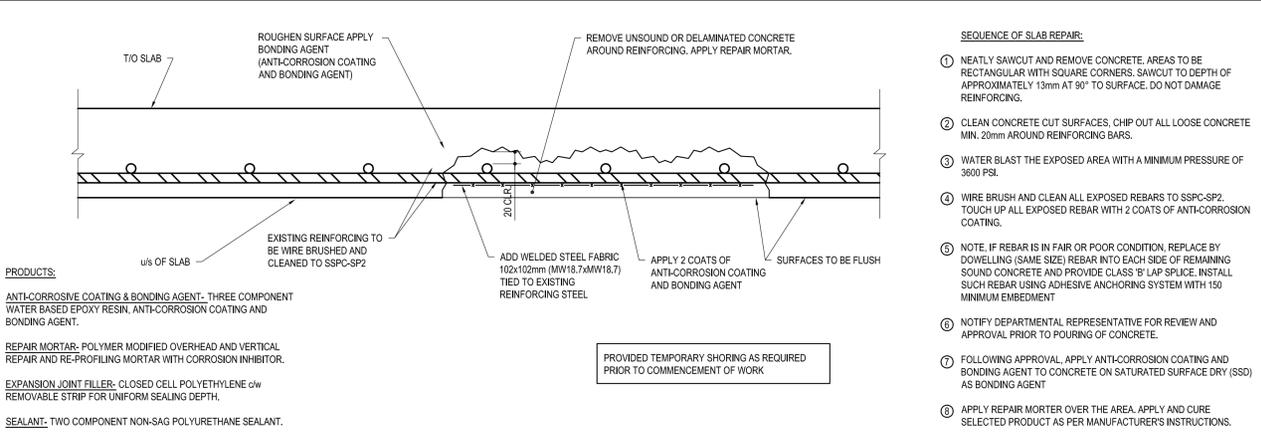
CONCRETE REINFORCEMENT

- REINFORCEMENT TO CONFORM TO THE FOLLOWING STANDARDS:
 DEFORMED BARS - CSA G30.18, GRADE 400R OR 400W.
 WELDED WIRE FABRIC - ASTM A1064/A1064M, YIELD STRENGTH 450 MPA, SUPPLIED IN FLAT SHEETS ONLY.
- ALL REINFORCING BAR SIZES ARE METRIC; "M" IS NOT NECESSARILY MARKED AFTER A BAR SIZE. FOR EXAMPLE, 10-15B NOTED ON PLAN INDICATES 10 BARS OF 15M DIAMETER, PLACED AT BOTTOM.
- BAR MARKED CONTINUOUS TO BE TERMINATED IN STANDARD HOOKS AT ENDS AND SPLICED USING CLASS B LAPS.
- ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH.
- LAP WELDED WIRE FABRIC SHEETS BY ONE SPACING OF CROSS WIRES + 50 (2"), MEASURED BETWEEN THE OUTERMOST CROSS WIRES IN EACH SHEET.
- PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE.
- PROVIDE SUFFICIENT CHAIRS TO REINFORCING TO MAINTAIN SPECIFIED CONCRETE COVER.
- ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.
- UNLESS NOTED OTHERWISE ON DRAWINGS MINIMUM CONCRETE COVER TO REINFORCEMENT TO BE AS FOLLOWS

REBAR REINFORCED SLABS ON GRADE -	
PROTECTED TOP BARS:	25 (1")
PROTECTED BOT BARS:	75 (3")
EXPOSED TOP BARS:	40 (1.58")
EXPOSED BOT BARS:	75 (3")
WALLS -	
PROTECTED BARS:	25 (1")
EXPOSED BARS:	40 (1.58")
EXPOSED TO CHLORIDES:	60 (2-3/8")

- NOTES:
- "PROTECTED" MEANS IN INTERIOR, CONDITIONED SPACE.
 - "EXPOSED" MEANS IN UNHEATED SPACE AND/OR EXPOSED TO WATER, WEATHER OR SULPHATES.
 - UNLESS OTHERWISE NOTED, FOR BARS WITH 90° HOOKS, PROVIDE 50 (2") COVER ON THE BAR EXTENSION BEYOND THE HOOK (FROM THE HOOKED PORTION TO FACE OF CONCRETE).

1 GENERAL NOTES
SCALE: NA



KEYPLAN



04		
03		
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project title
titre du projet
MILLHAVEN PUBLIC WORKS ONTARIO

drawing title
titre du dessin
WALKWAY RESTORATION AND TUNNEL WATERPROOFING

GENERAL NOTES AND DETAILS

drawn by
dessiné par **NH**

designed by
conçue par **NH**

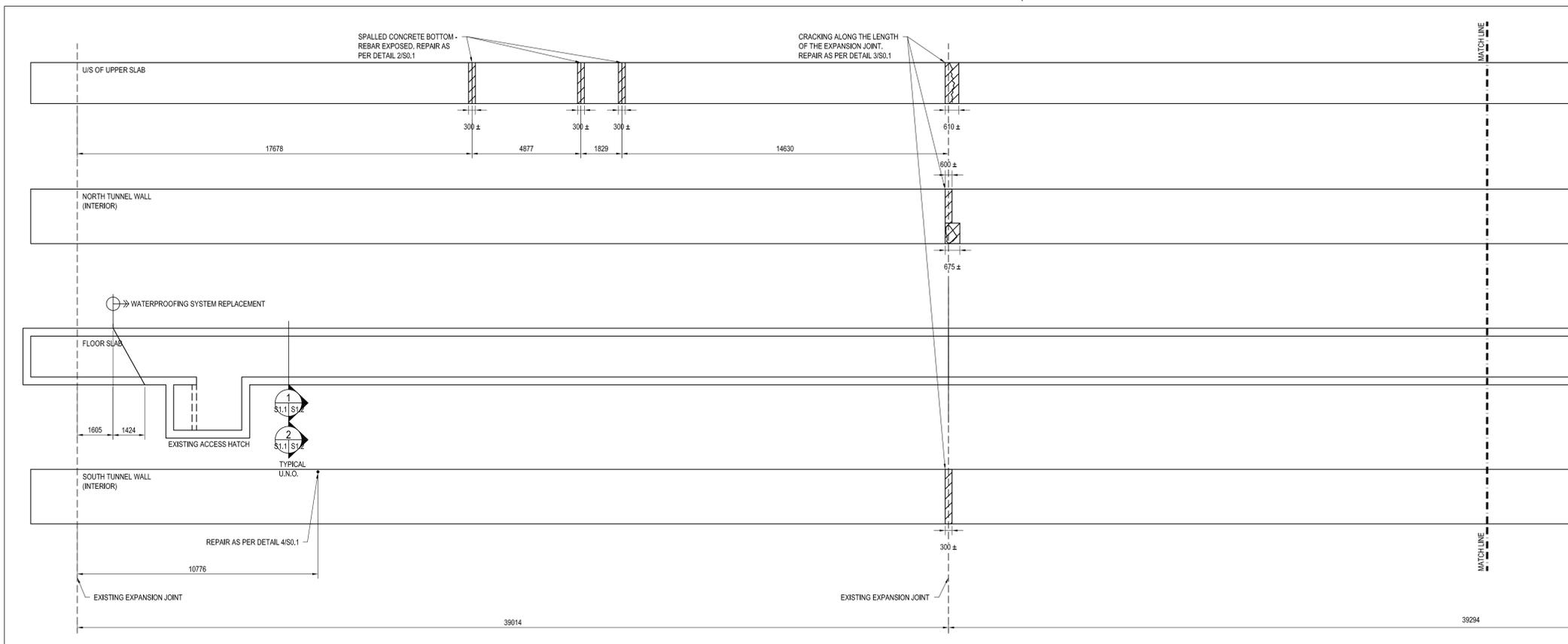
approved by
approuvé par **DH**

bid
offre project manager
administrateur de projets

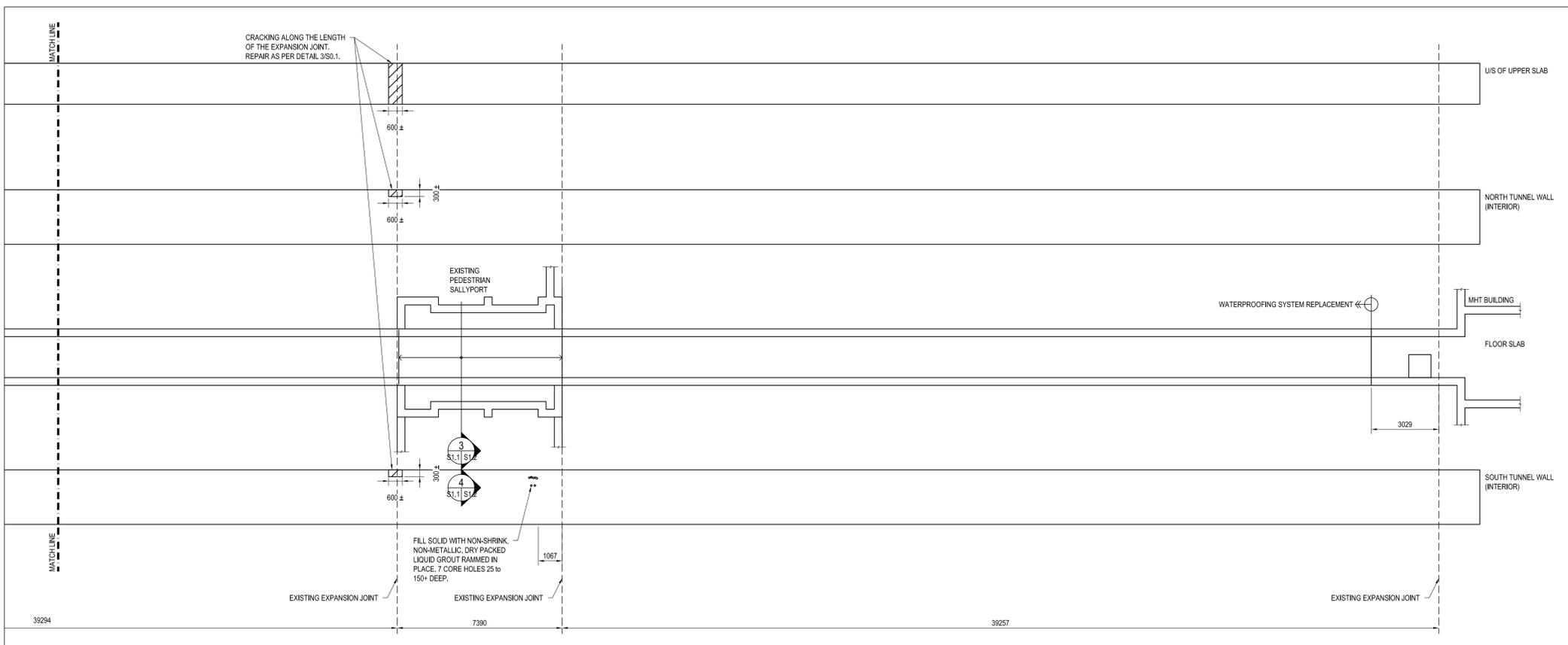
project date
date du projet **2018-05-11**

project no.
no. du projet **R.093606.001**

drawing no.
dessiné no. **S0.1**



1 INTERIOR TUNNEL PLAN
SCALE: 1:100



2 INTERIOR TUNNEL PLAN
SCALE: 1:100



KEYPLAN



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MILLHAVEN PUBLIC WORKS ONTARIO

WALKWAY RESTORATION AND TUNNEL WATERPROOFING

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REPAIR PLAN

drawn by
dessiné par
NH

designed by
conçu par
NH

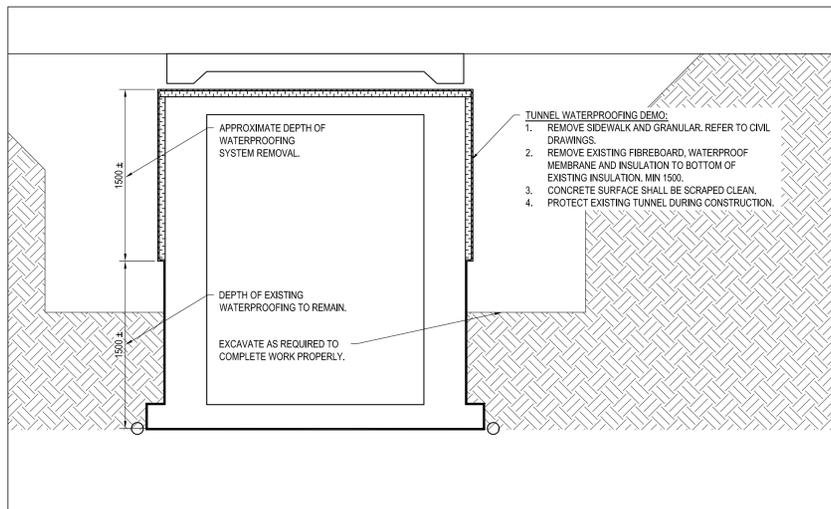
approved by
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bid offer
offre

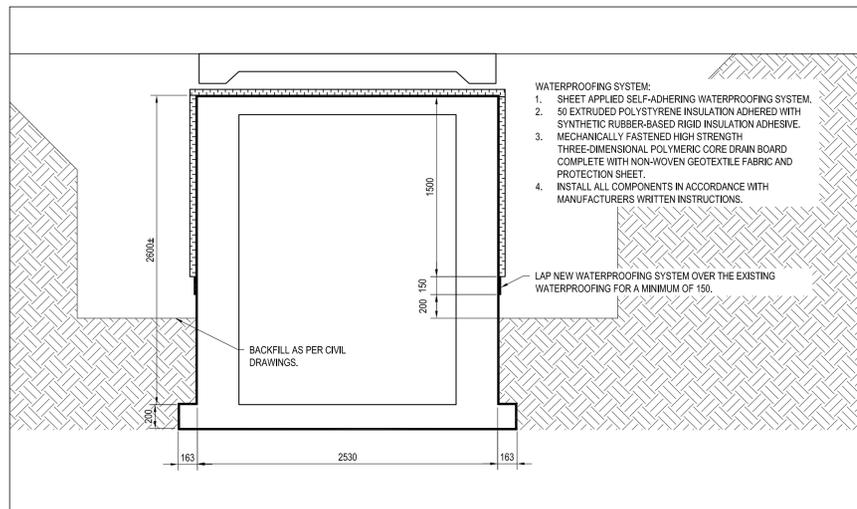
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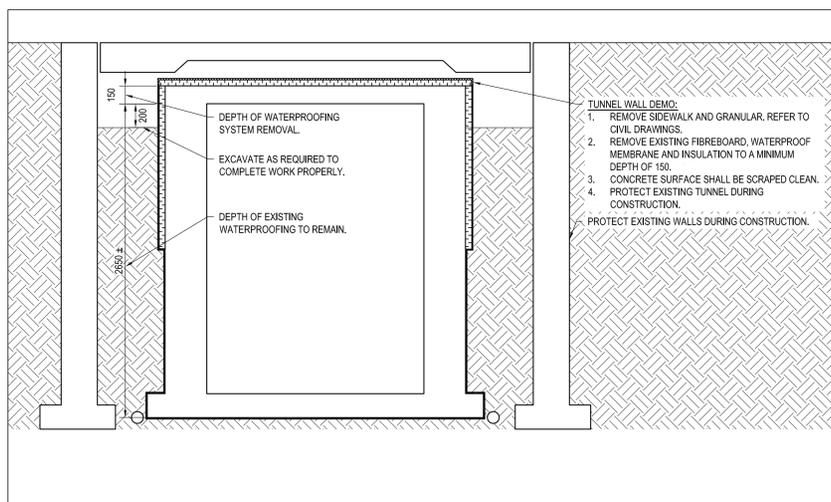
drawing no.
dessiné no.
S1.1



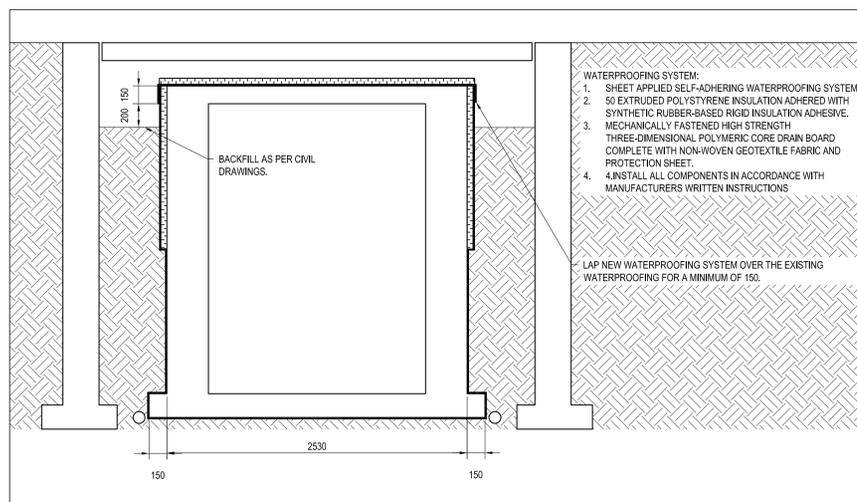
1 TYPICAL TUNNEL WATERPROOFING REMOVAL SECTION
S1.1 S1.2 SCALE: 1:25



2 TYPICAL TUNNEL WATERPROOFING SECTION
S1.1 S1.2 SCALE: 1:25



3 PEDESTRIAN SALLYPORT TUNNEL WATERPROOFING REMOVALS SECTION
S1.1 S1.2 SCALE: 1:25



4 PEDESTRIAN SALLYPORT TUNNEL WATERPROOFING SECTION
S1.1 S1.2 SCALE: 1:25



1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
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MILLHAVEN PUBLIC WORKS ONTARIO

WALKWAY RESTORATION AND TUNNEL WATERPROOFING

drawing title
titre du dessin
SECTIONS

drawn by
dessiné par **NH**

designed by
conçue par **NH**

approved by
approuvé par **DH**

bid offer project manager
offre administrateur de projets

project date
date du projet **2018-05-11**

project no.
no. du projet **R.093606.001**

drawing no.
dessiné no. **S1.2**



KEYPLAN



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MILLHAVEN PUBLIC WORKS ONTARIO

WALKWAY RESTORATION AND TUNNEL WATERPROOFING

drawing title
titre du dessin
ENTRANCE CANOPY ELECTRICAL PLANS

drawn by
dessiné par **ML**

designed by
conçu par **GL**

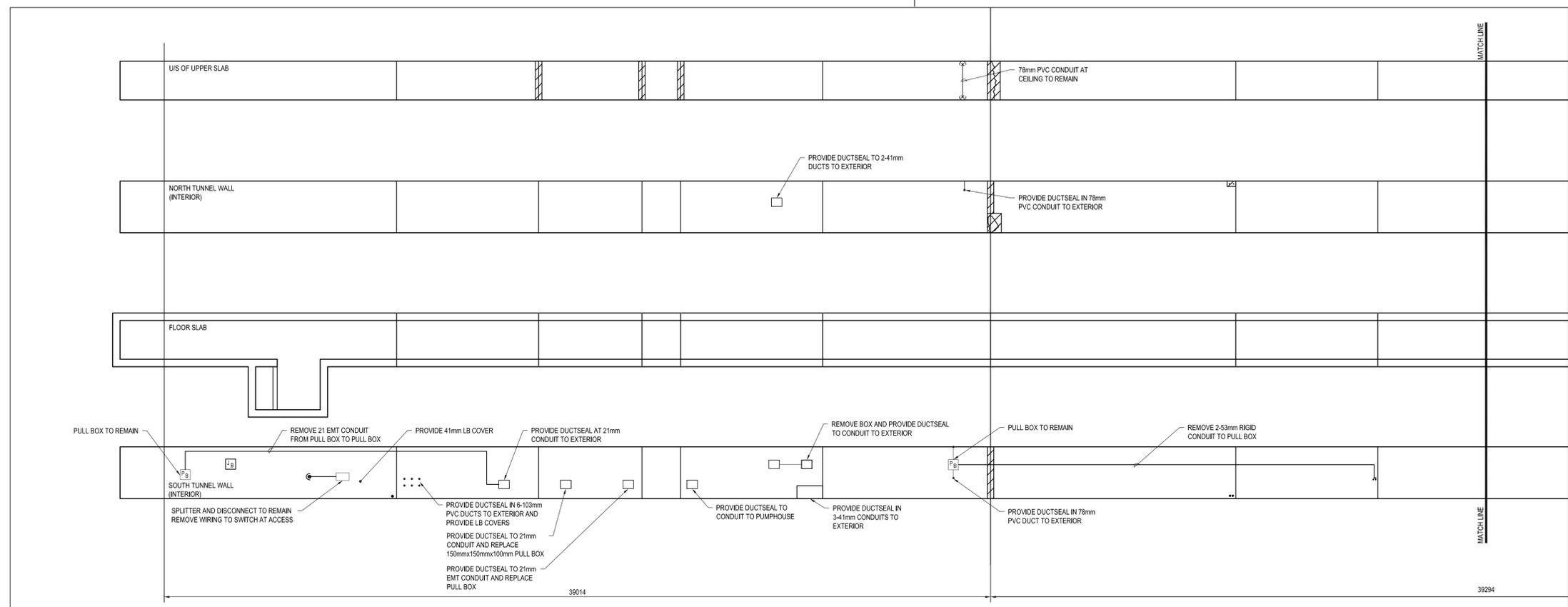
approved by
approuvé par **NM**

bid offer project manager
offre administrateur de projets

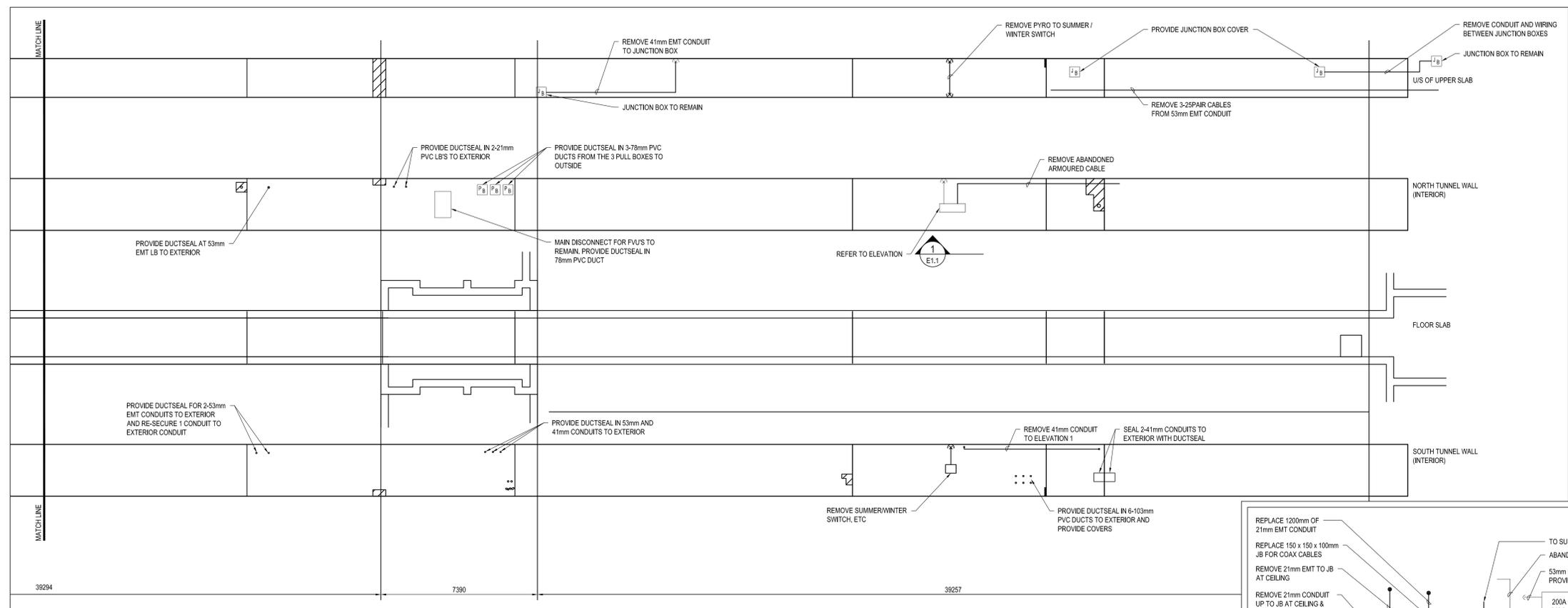
project date
date du projet **2018-05-11**

project no.
no. du projet **R.093606.001**

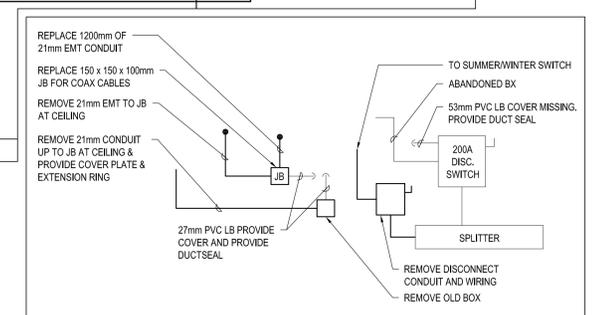
drawing no.
dessiné no. **E1.1**



1 ENTRANCE CANOPY ELECTRICAL PLAN
SCALE: 1:100



2 ENTRANCE CANOPY ELECTRICAL PLAN
SCALE: 1:100



3 ELEVATION 1 DETAIL
SCALE: NTS