



NIAGARA-ON-THE-LAKE, ONTARIO.
PARKS CANADA

FORT MISSISSAUGA
STABILIZATION PHASE II
PCA Proj. No.: PR0000808

AS FOUND DRAWINGS

- AF1 SITE PLAN
- AF2 MAIN ENTRANCE GATE – PLANS
- AF3 MAIN ENTRANCE GATE – SECTION AND ELEVATIONS
- AF4 POWDER MAGAZINE (NORTH) –PLANS
- AF5 POWDER MAGAZINE (SOUTH) –PLANS
- AF6 POWDER MAGAZINE (NORTH) –SECTIONS & ELEVATIONS 1
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- AF8 POWDER MAGAZINE (SOUTH) –SECTIONS & ELEVATIONS 1
- AF9 POWDER MAGAZINE (SOUTH) –SECTIONS & ELEVATIONS 2
- AF10 SALLY PORT –PLANS
- AF11 SALLY PORT –SECTIONS & ELEVATIONS 1
- AF12 SALLY PORT –SECTIONS & ELEVATIONS 2
- AF13 SALLY PORT –SECTIONS & ELEVATIONS 3

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LIST OF DRAWINGS

00	COVER SHEET
EXCAVATION AND REMOVAL DRAWINGS	
D1	SITE PLAN (EXCAVATION & REMOVALS)
D2	MAIN ENTRANCE GATE –PLANS (EXCAVATION & REMOVALS)
D3	MAIN ENTRANCE GATE –SECTIONS & ELEVATIONS (EXCAVATION & REMOVALS)
D4	POWDER MAGAZINE (NORTH) –PLANS
D5	POWDER MAGAZINE (SOUTH) –PLANS
D6	POWDER MAGAZINE (NORTH) –SECTIONS & ELEVATIONS 1
D7	POWDER MAGAZINE (NORTH) –SECTIONS & ELEVATIONS 2
D8	POWDER MAGAZINE (SOUTH) –SECTIONS & ELEVATIONS 1
D9	POWDER MAGAZINE (SOUTH) –SECTIONS & ELEVATIONS 2
D10	SALLY PORT –PLANS (EXCAVATIONS & REMOVALS)
D11	SALLY PORT –SECTIONS & ELEVATIONS 1 (EXCAVATIONS & REMOVALS)
D12	SALLY PORT –SECTIONS & ELEVATIONS 2 (EXCAVATIONS & REMOVALS)
D13	SALLY PORT –SECTIONS & ELEVATIONS 3 (EXCAVATIONS & REMOVALS)
ARCHITECTURAL / HERITAGE MASONRY DRAWINGS	
A1	Site Plan
A2	MAIN ENTRANCE GATE –PLANS
A3	MAIN ENTRANCE GATE –SECTIONS & ELEVATIONS
A4	MAIN ENTRANCE GATE –DETAILS
A5	POWDER MAGAZINE (NORTH) –PLANS
A6	POWDER MAGAZINE (SOUTH) –PLANS
A7	POWDER MAGAZINE (NORTH) –SECTIONS & ELEVATIONS 1
A8	POWDER MAGAZINE (NORTH) –SECTIONS & ELEVATIONS 2
A9	POWDER MAGAZINE (SOUTH) –SECTIONS & ELEVATIONS 1
A10	POWDER MAGAZINE (SOUTH) –SECTIONS & ELEVATIONS 2
A11	POWDER MAGAZINE (NORTH) – PARAPET WALL–DETAILS
A11.1	POWDER MAGAZINE (NORTH) – PARAPET WALL–DETAILS
A11.2	POWDER MAGAZINE (NORTH) – PASSAGEWAY DETAILS
A11.3	POWDER MAGAZINE (SOUTH) – PASSAGEWAY DETAILS
A12	SALLY PORT –PLANS
A13	SALLY PORT –SECTIONS & ELEVATIONS 1
A14	SALLY PORT –SECTIONS & ELEVATIONS 2
A15	SALLY PORT –SECTIONS & ELEVATIONS 3
A16	SALLY PORT –DETAILS
LANDSCAPING	
L0	FORT MISSISSAUGA – LANDSCAPING RESTORATION
L1	MAIN ENTRANCE GATES– LANDSCAPE RESTORATION
L2	NORTH POWDER MAGAZINE– LANDSCAPE RESTORATION
L3	SOUTH POWDER MAGAZINE– LANDSCAPE RESTORATION
L4	SALLY PORT– LANDSCAPE RESTORATION
L5	SALLY PORT– LANDSCAPE RESTORATION
L6	OBSERVATION DECK– LANDSCAPING RESTORATION
L7	DETAILS
STRUCTURAL	
S1	GENERAL NOTES
S2	SITE PLAN
S3	PLANS AND SECTIONS – MAIN ENTRANCE GATE
S4	PLANS AND SECTIONS – NORTH POWDER MAGAZINE
S5	DETAILS – NORTH POWDER MAGAZINE
S6	PLANS AND SECTIONS – SOUTH POWDER MAGAZINE
S7	DETAILS – SOUTH POWDER MAGAZINE
S8	PLAN AND SECTIONS – SALLY PORT
S9	OBSERVATION DECK

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Filename: J:\TOP\602951_Fort_Mississauga\BT\608 Deliverables (Drawings)\LATEST-DWG PHASE 3- DETAILED DESIGN\100% ISSUED FOR TENDER\SI-General Notes.dwg
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A. GENERAL NOTES:

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. ALL DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE OR DESIGNATE FOR REVIEW AND CLARIFICATION.
2. ALL DIMENSIONS, LOCATIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE CONTRACT DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. THE CONSULTANT SHALL BE NOTIFIED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE COMMENCING WORK.
3. PRIOR TO COMMENCEMENT OF WORK VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL AND LANDSCAPE DRAWINGS AND REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE OR DESIGNATE.
4. NO OPENINGS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE OR DESIGNATE.
5. ALL DIMENSIONS ARE IN MILLIMETERS, ELEVATIONS IN METERS, UNLESS OTHERWISE NOTED.
6. DO NOT SCALE DRAWINGS

B. TEMPORARY WORKS:

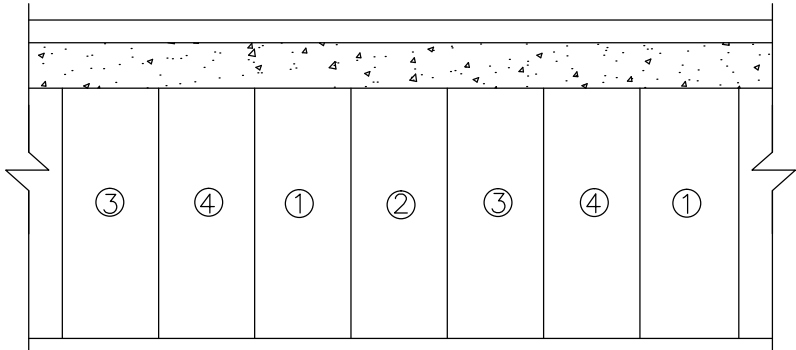
1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
3. COSTS OF ALL TEMPORARY WORKS ARE DEEMED TO HAVE BEEN INCLUDED IN THE CONTRACT PRICE.
4. SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
5. ANY CONSTRUCTION SEQUENCES SHOWN ON THE DRAWINGS SHALL BE PART OF THE TEMPORARY WORKS AND ARE FOR THE CONTRACTOR'S CONSIDERATION ONLY. THE CONTRACTOR IS AT LIBERTY TO USE ANY OTHER SEQUENCE AS HE DEEMS APPROPRIATE, BUT AT NO TIME SHALL THE SAFETY AND INTEGRITY OF THE WORKS BE COMPROMISED. IF THE CONTRACTOR ADAPTS THE SUGGESTED SEQUENCE, SUCH SEQUENCE SHALL BE DEEMED AS THE CONTRACTOR'S OWN SELECTION OF METHOD, AND THE CONTRACTOR SHALL ASSUME FULL AND SOLE RESPONSIBILITY FOR IT, AS STATED IN (1) ABOVE. THE CONTRACTOR SHALL INFORM THE DEPARTMENTAL REPRESENTATIVE OR DESIGNATE IF HE WISHES TO DEViate FROM ANY SUGGESTED SEQUENCE.

C. UNDERPINNING NOTES:

1. CONCRETE SHALL HAVE A 28-DAY STRENGTH OF 35MPa AND A MAXIMUM SLUMP OF 75mm
2. UNDERPINNING SHALL BE DONE IN 750mm LENGTHS MAX.
3. NUMBERS ON PANELS INDICATE STAGES IN WHICH UNDERPINNING SHALL PROCEED, i.e. ALL SECTIONS MARKED #1 FOLLOWED BY ALL SECTIONS MARKED #2 FOLLOWED BY ALL SECTIONS MARKED #3 AND THEN #4. POUR CONCRETE IN PLACE AND LEAVE FOR 24 HOURS BEFORE DRYPACKING AND PROCEEDING WITH NEXT STAGE.
4. UNDERPINNING FOR EXISTING WALLS IS SHOWN FOR ASSUMED CONDITIONS. ANY VARIATIONS BETWEEN ACTUAL JOB CONDITIONS AND THE DETAILS SHOWN ON THIS DRAWING SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE OR DESIGNATE. DEPARTMENTAL REPRESENTATIVE OR DESIGNATE WILL BE FOLLOWING THE STRUCTURAL CONSULTANT RECOMMENDATIONS AS REQUIRED.
5. PROVIDE ALL NECESSARY SHORING OF EXISTING STRUCTURE REQUIRED TO CARRY OUT THIS WORK.
6. FOOTING AND UNDERPINNING EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO POURING CONCRETE TO CONFIRM ADEQUACY OF SUB-GRADE.
7. MAX. HEIGHT OF UNDERPINNING SHALL NOT BE MORE THAN 1200mm TYPICAL.

D. PROPOSED UNDERPINNING PROCEDURES:

1. EXCAVATE FOR UNDERPINNING IN 750mm LONG SECTIONS MAX.
2. EXCAVATE FOR ALL SECTIONS 1 REFER TO ELEVATION.
3. CLEAN UNDERSIDE OF EXISTING FOOTING/WALL.
4. POUR CONCRETE SAME WIDTH AS EXISTING FOOTING/WALL UP TO 75mm BELOW FOOTING/WALL.
5. LEAVE CONCRETE TO CURE FOR AT LEAST 24 HOURS BEFORE DRYPACKING TIGHT TO UNDERSIDE OF FOTING/WALL.
6. WHEN ALL SECTIONS MARKED ① HAVE BEEN DRYPACKED REPEAT FOR SECTIONS MARKED ②
7. WHEN ALL SECTIONS MARKED ② HAVE BEEN DRYPACKED REPEAT FOR SECTIONS MARKED ③
8. WHEN ALL SECTIONS MARKED ③ HAVE BEEN DRYPACKED REPEAT FOR SECTIONS MARKED ④



UNDERPINNING ELEVATION

E. CONCRETE:

1. CONCRETE MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO CAN/CSA-A23.1-09, A23.2-09, A23.3-04 AND A23.5-05
2. CONCRETE PROPERTIES FOR STRUCTURAL ELEMENTS ARE AS FOLLOWS:

ELEMENT	MIN STRENGTH (MPa)	MAX W/C RATIO	AIR CONTENT (%)	MAX AGGREGATE (MM)	EXPOSURE CLASS	COLOUR
FOUNDATIONS	35 at 28 d	.48	5-8	20	C-1	—
OTHER CONCRETE	35 at 28 d	.48	5-8	20	C-1	—

3. DOWELS SHALL BE PLACED BEFORE CONCRETE IS PLACED, TEMPLATES SHALL BE USED TO ENSURE CORRECT PLACEMENT OF DOWELS.

4. GROUT SHALL BE NON-SHRINK CEMENT GROUT WITH A MINIMUM STRENGTH OF 35MPa

F. CONCRETE REINFORCING:

1. CONCRETED REINFORCING BARS SHALL CONFORM TO THE FOLLOWING STANDARDS.

CSA G30.18W-M GRADE 400 W -DEFORMED BARS
CSA G30.5-M GRADE 400 -WELDED WIRE FABRIC (GLAVANIZED)

2. UNLESS OTHERWISE NOTED CONCRETE COVER TO REINFORCEMENT SHALL BE: FOUNDATION BEAM 75mm

3. UNLESS SHOWN OTHERWISE, TENSION LAP LENGTHS NOT INDICATED ON CONTRACT DRAWINGS SHALL BE CLASS "B"

4. BAR BENDS SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS, UNLESS NOTED OTHERWISE.

5. BARS MARKED WITH PRIFIX 'S' DENOTES STAINLESS STEEL BAR.

6. CLEAR COVER TO REINFORCING STEEL. FOOTINGS 100± 25
REMAINDER UNLESS OTHERWISE NOTED - 70± 20

G. STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO STANDARD CAN/CSA-G40.21-M GRADE 300W. HSS SHALL BE GRADE 350W CLASS H.

2. ALL STRUCTURAL STEEL ENCASED IN CONCRETE SHALL BE HOT DIPPED GLAVANIZED. HOT DIP GLAVANIZING SHALL BE ACCORDING TO CAN/CSA G 164M PROVIDING A MINIMUM ZINC MASS OF 610 g/m²

3. DESIGN CONNECTIONS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA S16.1-M FOR THE LOADS SHOWN OR IMPLIED.

4. FABRICATION AND ERECTION OF STEEL SHALL CONFIRM TO CAN/CSA S16-01. NO SPLICING WILL BE PERMITTED UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.

5. ALL BOLTS SHALL CONFORM TO ASTM A325M-97 IN BEARING TYPE CONNECTIONS.

6. ANCHORE BOLTS, FIELD BOLTS AND BEARING PLATES SHALL BE GLAVANIZED IN ACCORDANCE WITH STANDARD CAN/CSA-G164-M92 UNLESS OTHERWISE NOTED.

7. WELDING ELECTRODES TO CONFORM TO CSA W48 SERIES.

8. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS OTHERWISE NOTED.

9. ALL BEAM-TO-BEAM CONNECTIONS AND BEAM-TO-COLUMN CONNECTIONS SHALL HAVE DOUBLE ANGLE CONNECTIONS UNLESS OTHERWISE NOTED.

10. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH CSA STANDARD W59-M.

11. ELEVATIONS AND DIMENSIONS TO BE VERIFIED IN FIELD BEFORE FABRICATION.

12. BASE PLATES ARE TO BE SET AND LEVELED BY THE STRUCTURAL STEEL CONTRACTOR. ALL ANCHOR BOLTS AND TEMPLATES TO BE SUPPLIED BY THE STEEL CONTRACTOR AND SET BY THE CONCRETE / MASONRY CONTRACTOR.

13. CONTRACTOR SHALL CONFIRM GEOMETRY OF STEEL FRAMES ON SITE PRIOR TO FABRICATION.

H. WATERPROOFING:

WATERPROOFING FOR POWDER MAGAZINE ROOF (REPAIRED AREA ONLY) SHALL BE SELF ADHERING SHEET WATERPROOFING BELOW GRADE WATERPROOFING MEL-ROL BY W.R. MEADOWS OR APPROVED EQUIVALENT. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS.

I. INSULATION:

INSULATION SHALL BE FOAMULAR 600 BY OWENS CORNING. INSTALL IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. THICKNESS SHALL BE AS SHOWN ON THE DRAWING.

J. RETAINING WALL - OBSERVATION DECK

UNLESS OTHERWISE NOTED RETAINING WALL AT THE OBSERVATION DECK SHALL BE DURISOL NARROW FOOTPRINT RETAINING WALL SYSTEM (NFRWS) OR APPROVED SYSTEM. THE RETAINING WALL SYSTEM SHALL HAVE THE FOLLOWING ATTRIBUTES
PREORMANCE H
APPEARANCE H
SYSTEM POST AND PANEL
REFER TO ARCHITECTURAL DRAWINGS FOR TEXTURE AND COLOUR OF PANELS

K. DESIGN NOTES:

1. THE DESIGN OF THE STRUCTURES MODIFICATION COMPLIES WITH THE ONTARIO BUILDING CODE 2012.
2. ALL REINFORCED CONCRETE ELEMENTS ARE DESIGNED USING CAN/CSA A23.3-04 "DESIGN OF CONCRETE".
3. ALL STRUCTURAL STEEL ELEMENTS ARE DESIGNED USING CAN/CSA S16-09 "DESIGN OF STEEL STRUCTURES".

L. TIMBER

1. TIMBER SHALL BE COASTAL DOUGLAS FIR OR JACK PINE NO. 1 GRADE OR EQUIVALENT UNDER THE SAME SPECIES IDENTIFICATION IN ACCORDANCE WITH CSA STANDARD 086 FOR BEAM AND STRINGER, NLGA STANDARD GRADING RULES.

2. ALL WOOD SHALL BE PRESSURE PRESERVATIVE TREATED AS PER OPSS 1601.

3. ALL CUTS HOLES AND DAMAGE AFTER PRESSURE TREATMENT SHALL BE TREATED WITH PRESERVATIVES AS PER OPSS 1601.

4. ALL STEEL INCLUDING NUTS AND BOLTS SHALL BE HOT DIPPED GALVANIZED AS PER CSA STANDARD G164-M

5. STEEL USED FOR PLATES SHALL BE STRUCTURAL STEEL IN ACCORDANCE WITH CSA STANDARD CAN3- G40.21-M GRADE 300W.

6. BOLTS AND NUTS SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATIONS A325M.

M. DOWELS

1. DOWELS SHALL COMPLY WITH OPSS MUNI 904 - NOVEMBER 2012

2. DOWEL ADHESIVE SIKADUR CHEMROC 800
INSTALL IN ACCORDANCE WITH MAUFACTURER'S INSTRUCTIONS

SCOPE OF WORK

"THE SCOPE OF WORK OF FORT MISSISSAUGA STABILIZATION -PHASE II INCLUDES BUT IT IS NOT LIMITED TO:

ENTRANCE GATE:

REMOVAL AND REBUILDING OF THE END PORTION OF THE INTERIOR NORTH WING WALL,

CONSTRUCTION OF NEW CONCRETE FOOTINGS AND CONCRETE CAISSONS, INSTALLATION

OF INSULATION, LANDSCAPING REPAIRS.

NORTH AND SOUTH POWDER MAGAZINES:

INSTALLATION OF STEEL FRAMES IN PASSAGEWAYS, CONCRETE STRUT BEAMS,

INSTALLATION OF INSULATION, STONE DUST IN MAGAZINES AND ACCESS TO MAGAZINES,

INCREASE THE HEIGHT OF THE PARAPET WALLS AND INTRODUCE NEW VENT HOLES IN

FRONT FACE OF PARAPET WALLS, MASONRY REPAIRS, REPOINTING, CLEANING

AND STRUCTURAL CRACK REPAIRS OF VARIOUS EXPOSED EXTERIOR MASONRY WALLS,

REPAIRS AND REINSTALLATION OF METAL GATES AT ENTRY WALLS, INSTALLATION OF

MOISTURE BARRIER AND WATERPROOFING OVER POWDER MAGAZINES, LANDSCAPING

REPAIRS, ACCESS PATH TO THE MAGAZINES.

SALLY PORT:

REPAIRS OF FOOTING OF NORTH EXTERIOR WING WALL, CONSTRUCTION OF LOG CRIB

WALL WITH ANCHORING SYSTEM AT LAKE SIDE ENTRANCE, EXCAVATION ABOVE

ALCOVE AND REPAIRS TO MASONRY WORK AT ALCOVE FROM INSIDE AND OUTSIDE,

INJECT EPOXY GROUT IN THE LONGITUDINAL CRACK IN THE CEILING FROM INSIDE

OF THE SALLY PORT, INSTALL REINFORCED CONCRETE STRUT BEAMS BETWEEN WALL

FOUNDATIONS, INSTALL INSULATION AND STONE DUST AT FLOOR.

CONSTRUCTION OF NEW OBSERVATION DECK:

CONSTRUCT NEW OBSERVATION DECK USING DURISOL RETAINING WALL SYSTEM,

INSTALL HAND RAIL, FLAG POLE, LANDSCAPING REPAIRS.

LIMITATIONS OF PROPOSED IMPROVEMENTS

THIS SET OF DRAWINGS DEPICTS TEMPORARY MEASURES TO MAINTAIN THE STABILITY AND STRUCTURAL

INTEGRITY OF THE EXISTING STRUCTURES INCLUDING BUT NOT LIMITED TO THE MAIN ENTRANCE GATE WALLS,

NORTH AND SOUTH POWDER MAGAZINE AND SALLY PORT.

THE PROPOSED TEMPORARY MEASURES (IN CONJUNCTION WITH ANNUAL MONITORING BY A PROFESSIONAL

ENGINEER) ARE INTENDED TO LAST BETWEEN ONE YEAR AND THREE YEARS. BEYOND THIS PERIOD IT IS

RECOMMENDED THAT CLIENT IMPLEMENT NEW MEASURES TO MAINTAIN STRUCTURAL STABILITY, SAFETY AND

STRUCTURAL INTEGRITY OF THE WORKS.

04	REISSUED FOR TENDER	16/06/14
03	ISSUED FOR 100% ISSUED FOR TENDER	16/05/12
02	ISSUED FOR 99% REVIEW	16/04/08
01	ISSUED FOR 66% REVIEW	16/03/09

revision	issued / revisions	date
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Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

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Linear dimensions in millimeters	Dimensions lineaires en millimetres
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Client Acceptance / Acceptation du client	
Signature	Date
File No. / No. de dossier	



PARKS CANADA
SOUTHWEST ONTARIO FIELD UNIT



Type of Record / Type d'enregistrement

Project title / Titre du projet

FORT MISSISSAUGA
STABILIZATION
PHASE II

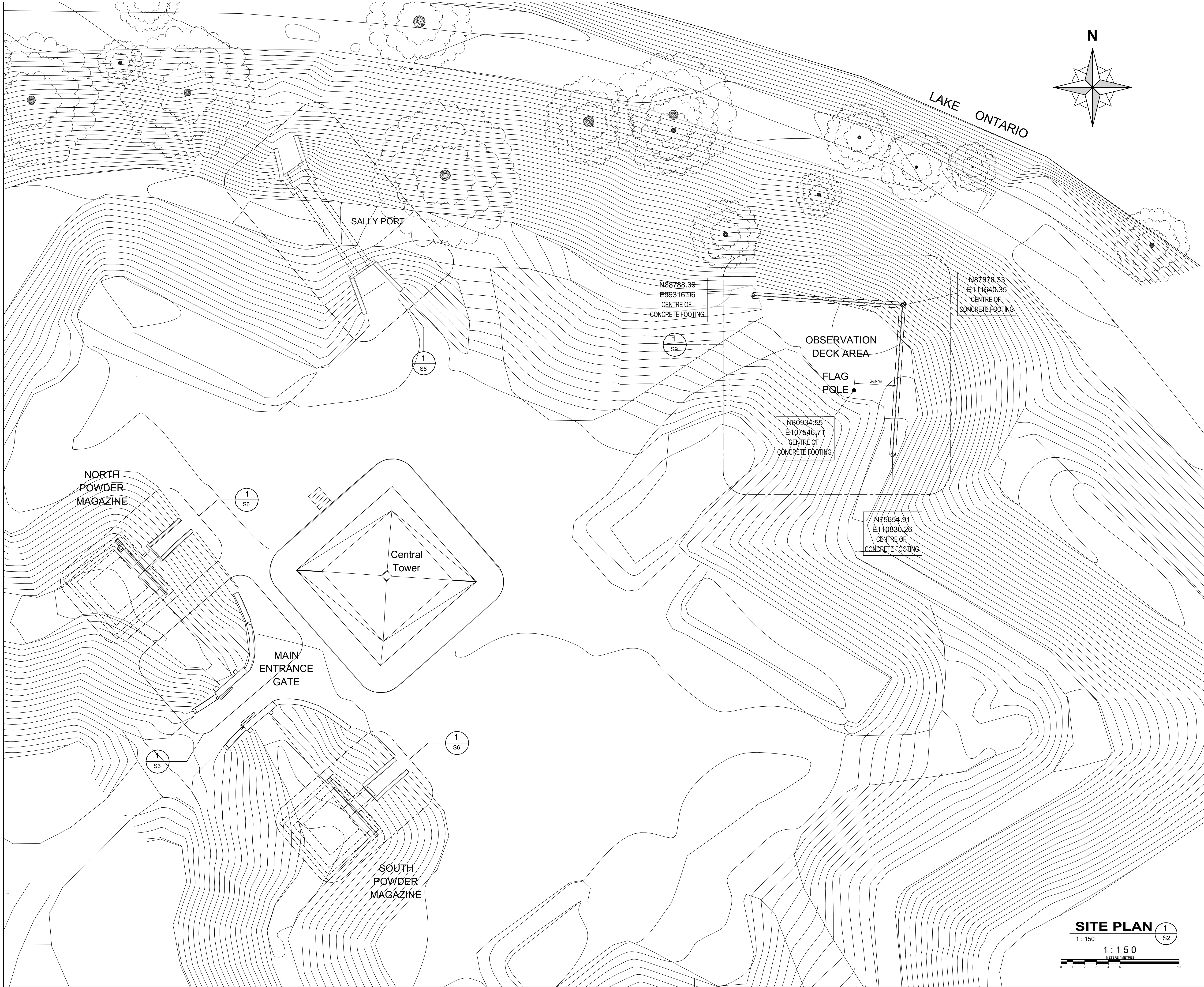
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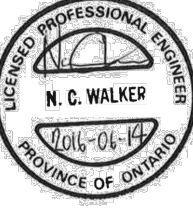
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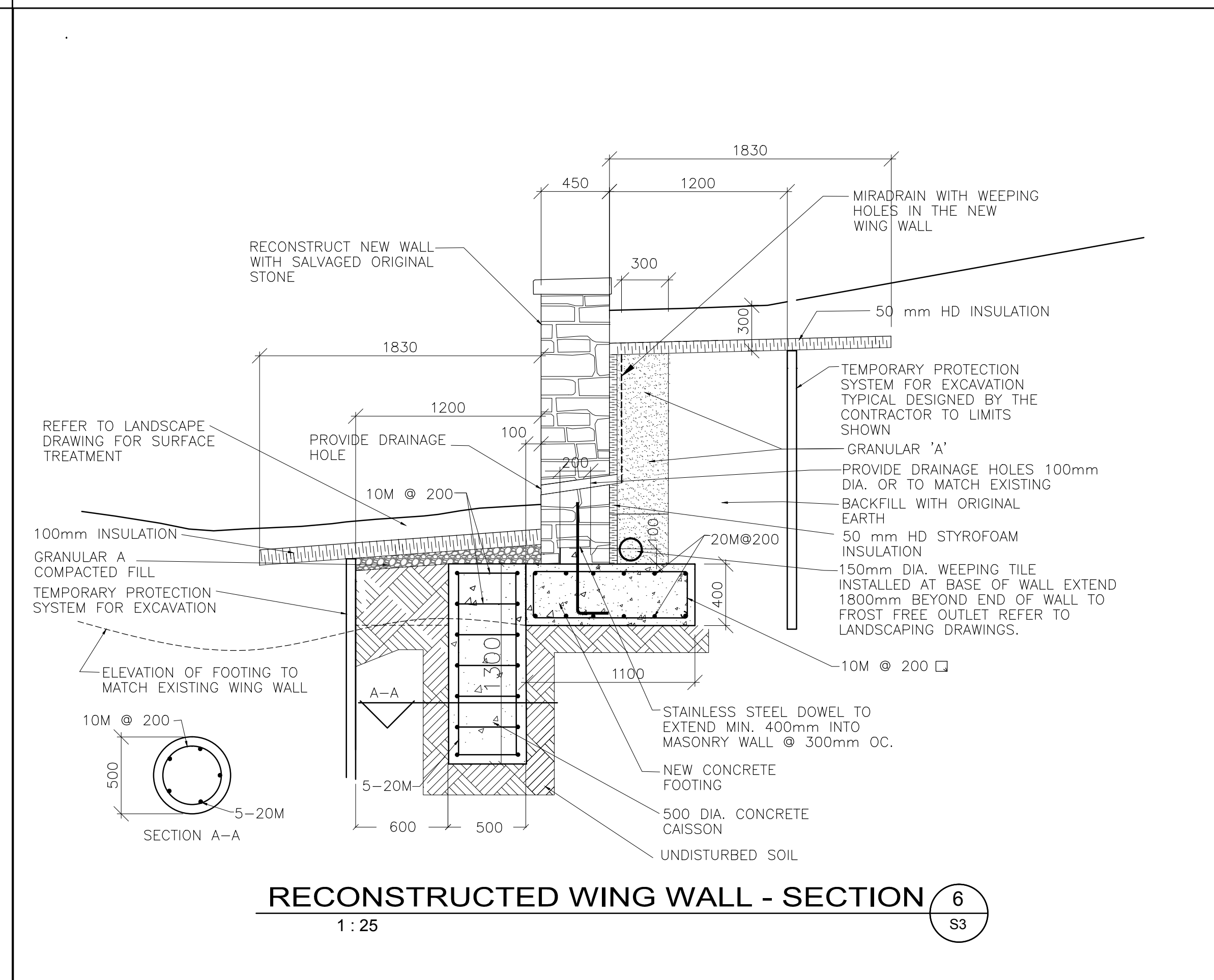
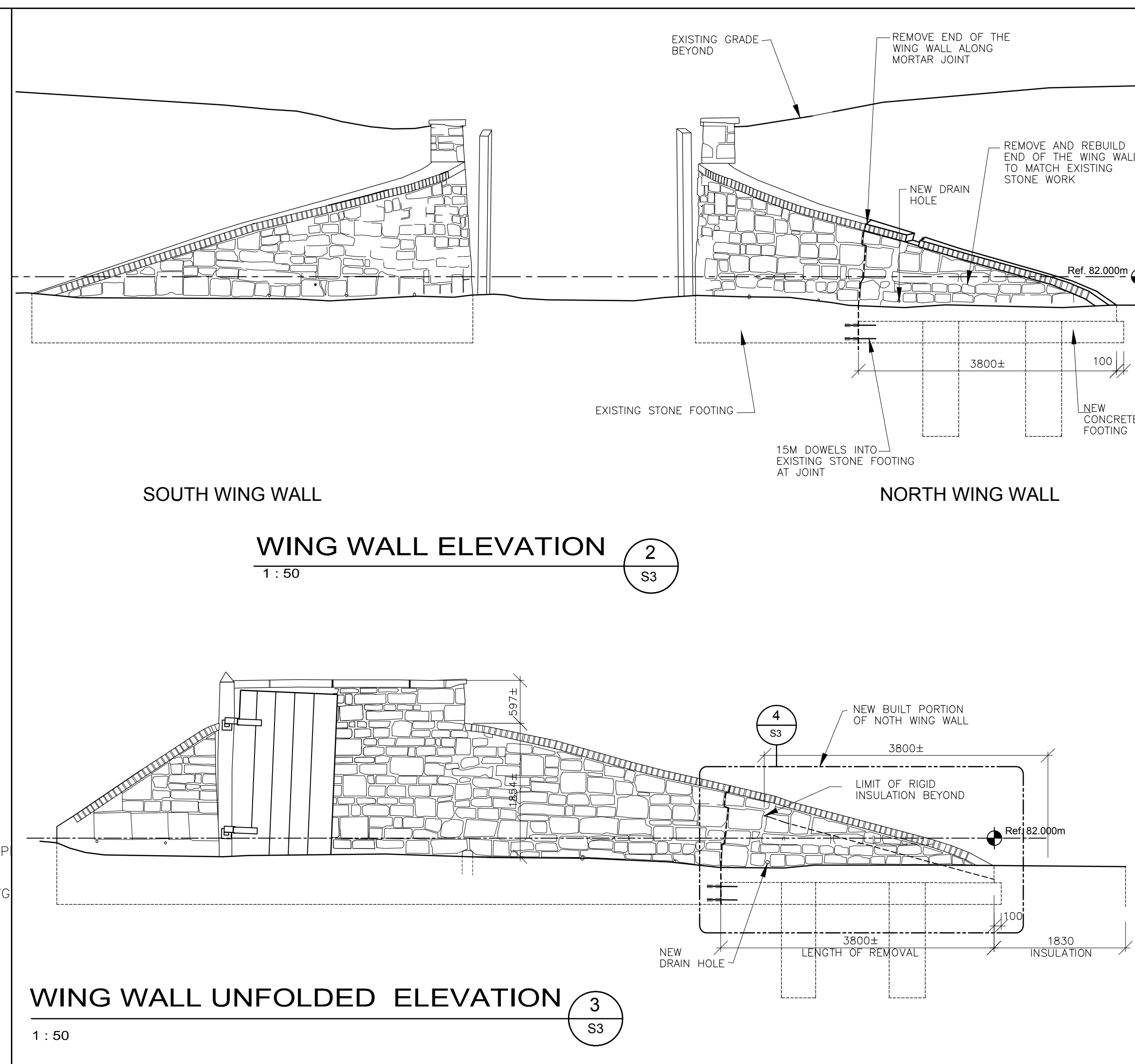
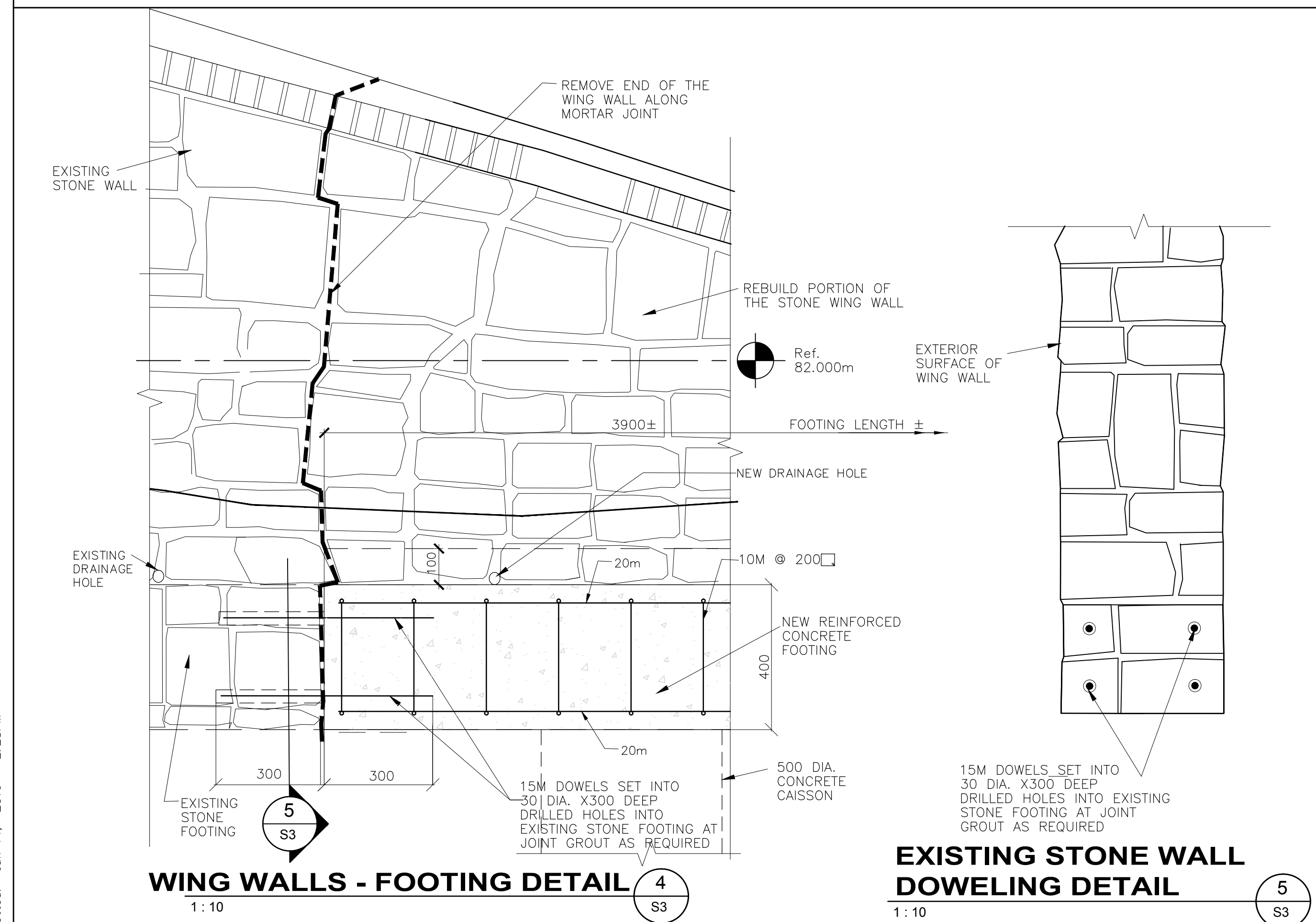
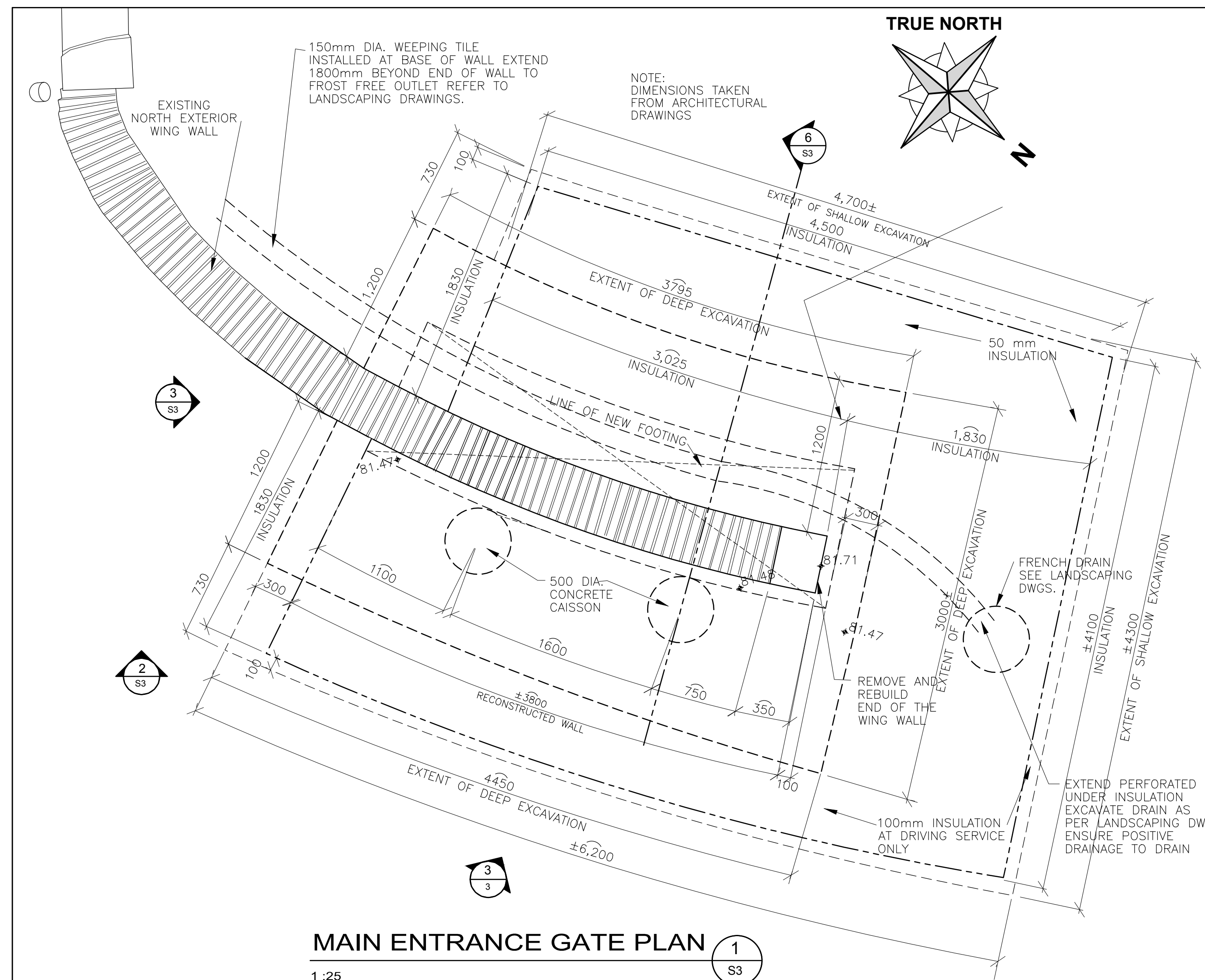
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Approved by / Approuve par NW	Date 2016/04/08
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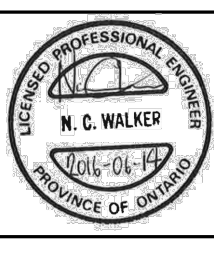
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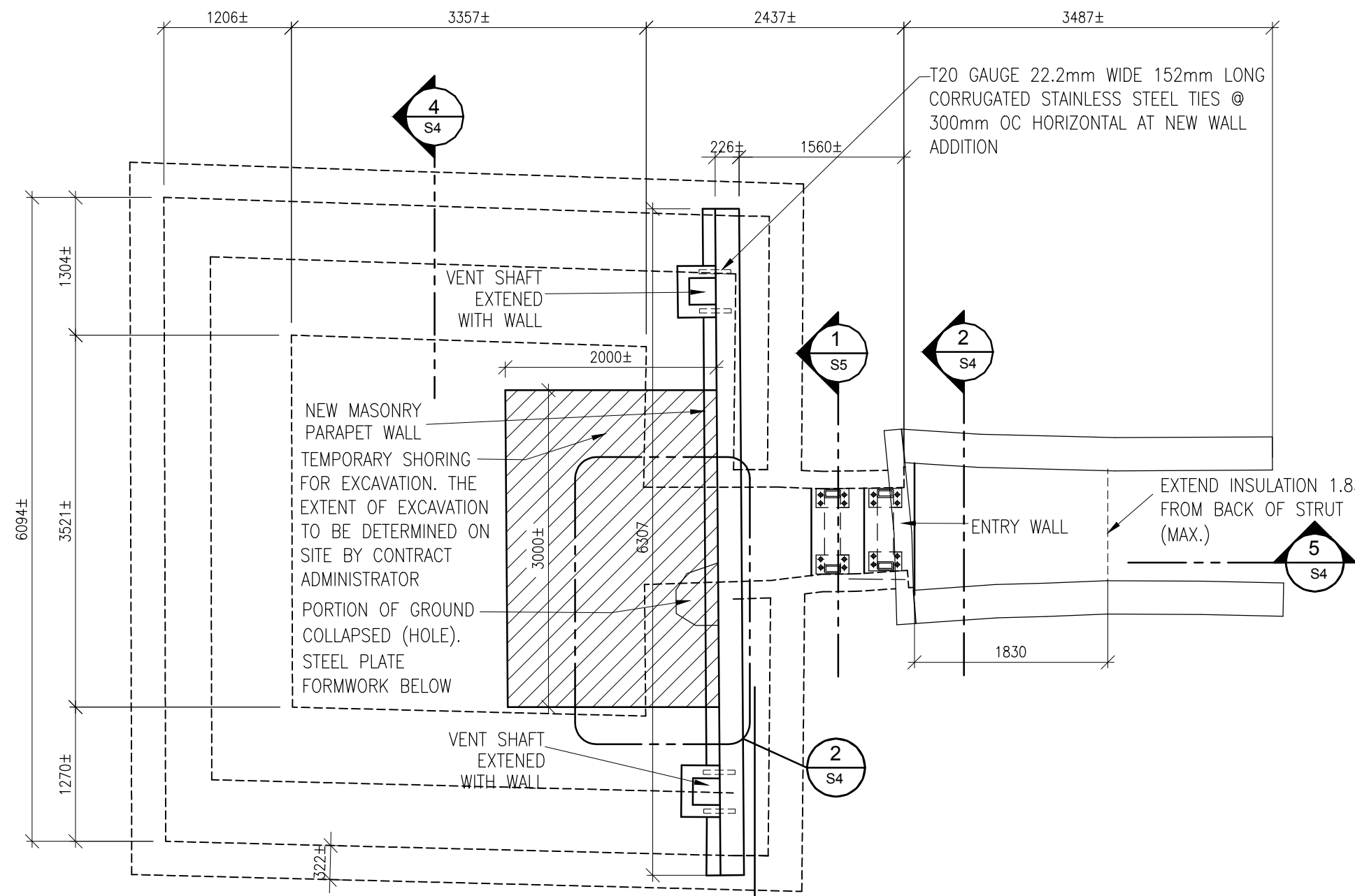


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Type of Record / Type d'enregistrement								
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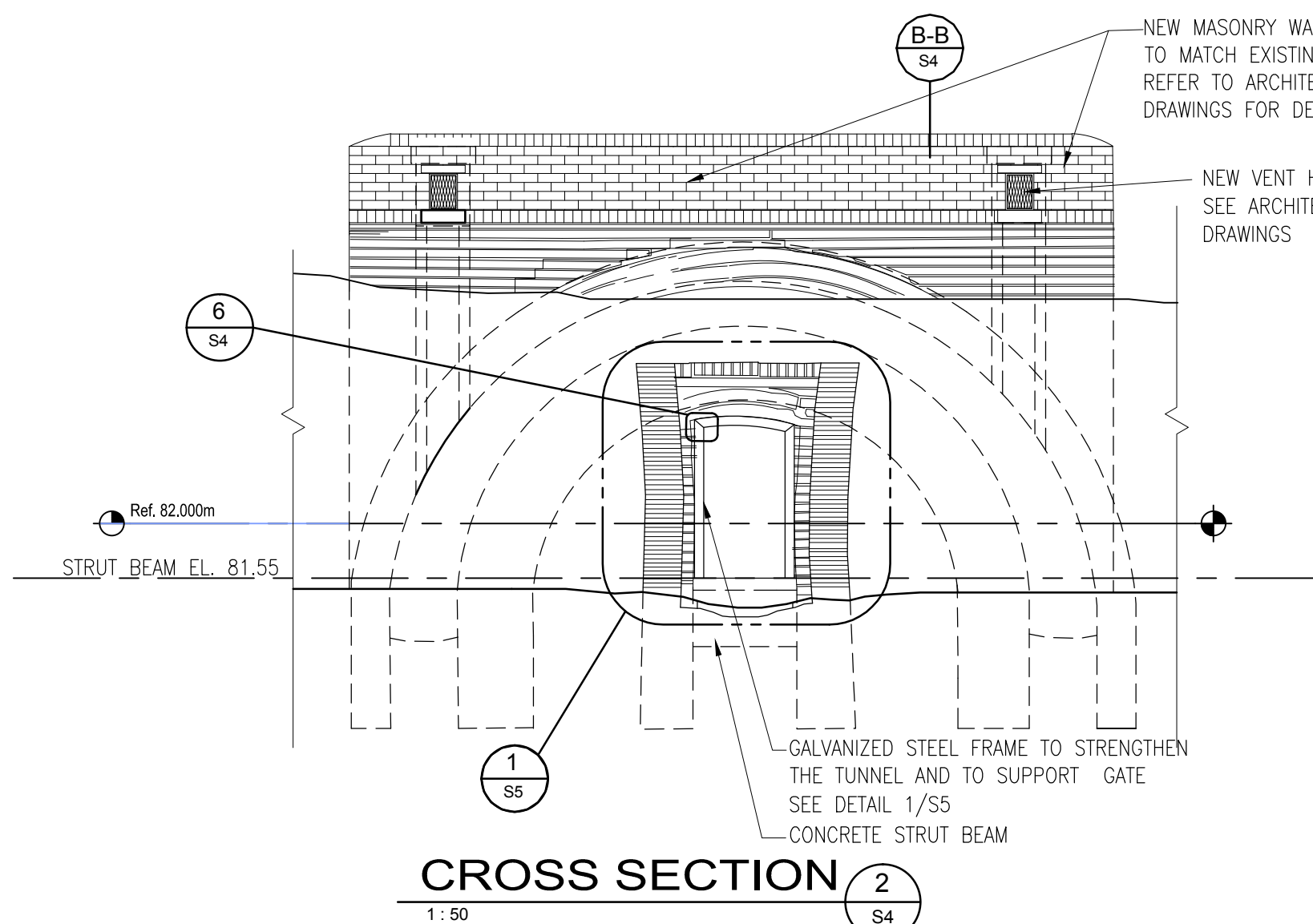
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Checked by/ Verifie par Date RG 2016/04/08		
Project No./ No. du projet PRO00808		
Asset No. 1300164		
Sheet No./ Feuille No. S3		
Drawing Reference No./No. du Dessin --/--		

Filename: J:\TOR\602951 Fort Mississauga\BT\6B Deliverables (Drawings)\LATEST-DWG PHASE 3- DETAILED DESIGN\S4- PLANS AND SECTIONS-NORTH POWDER MAGAZINE.dwg
Plotted: Jun 14, 2016 - 12:35PM



NORTH POWDER MAGAZINE TOP VIEW

1:50

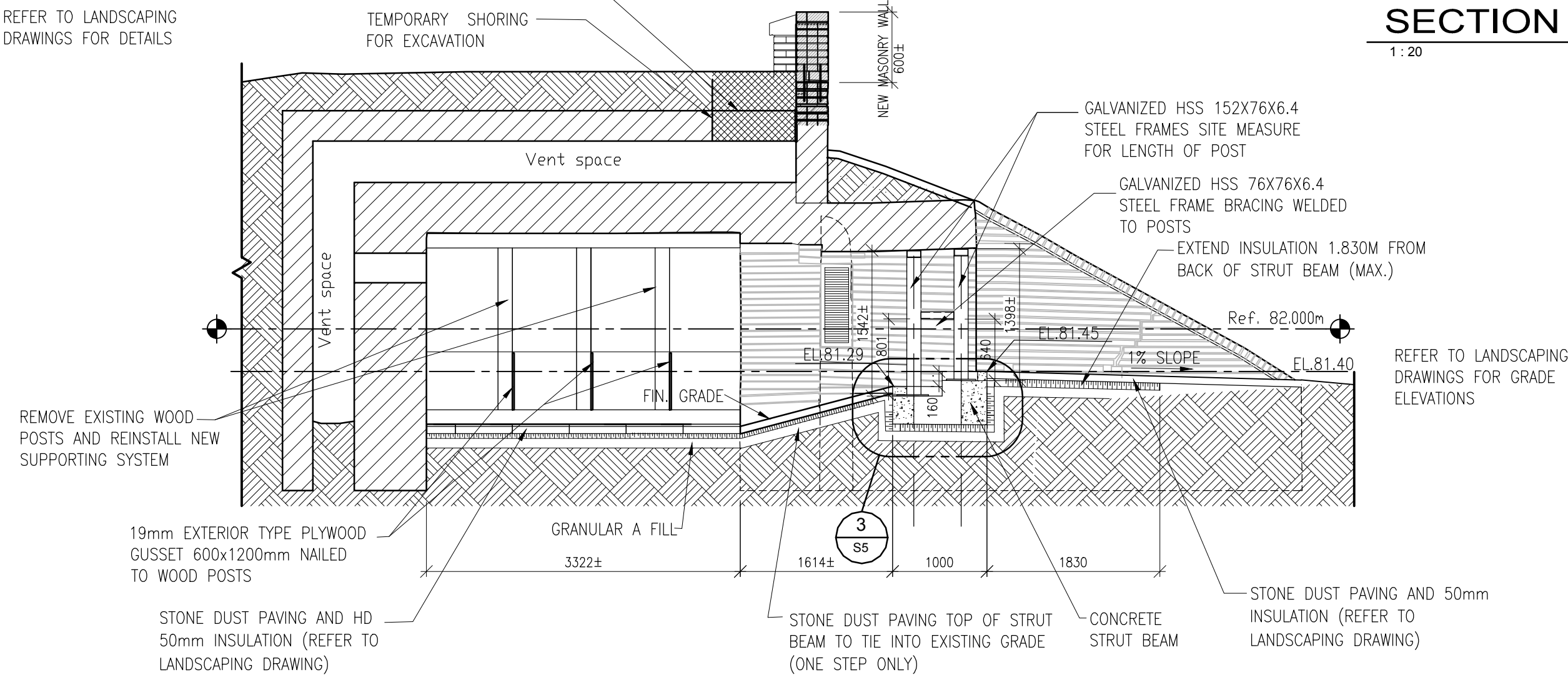


CROSS SECTION

1:50

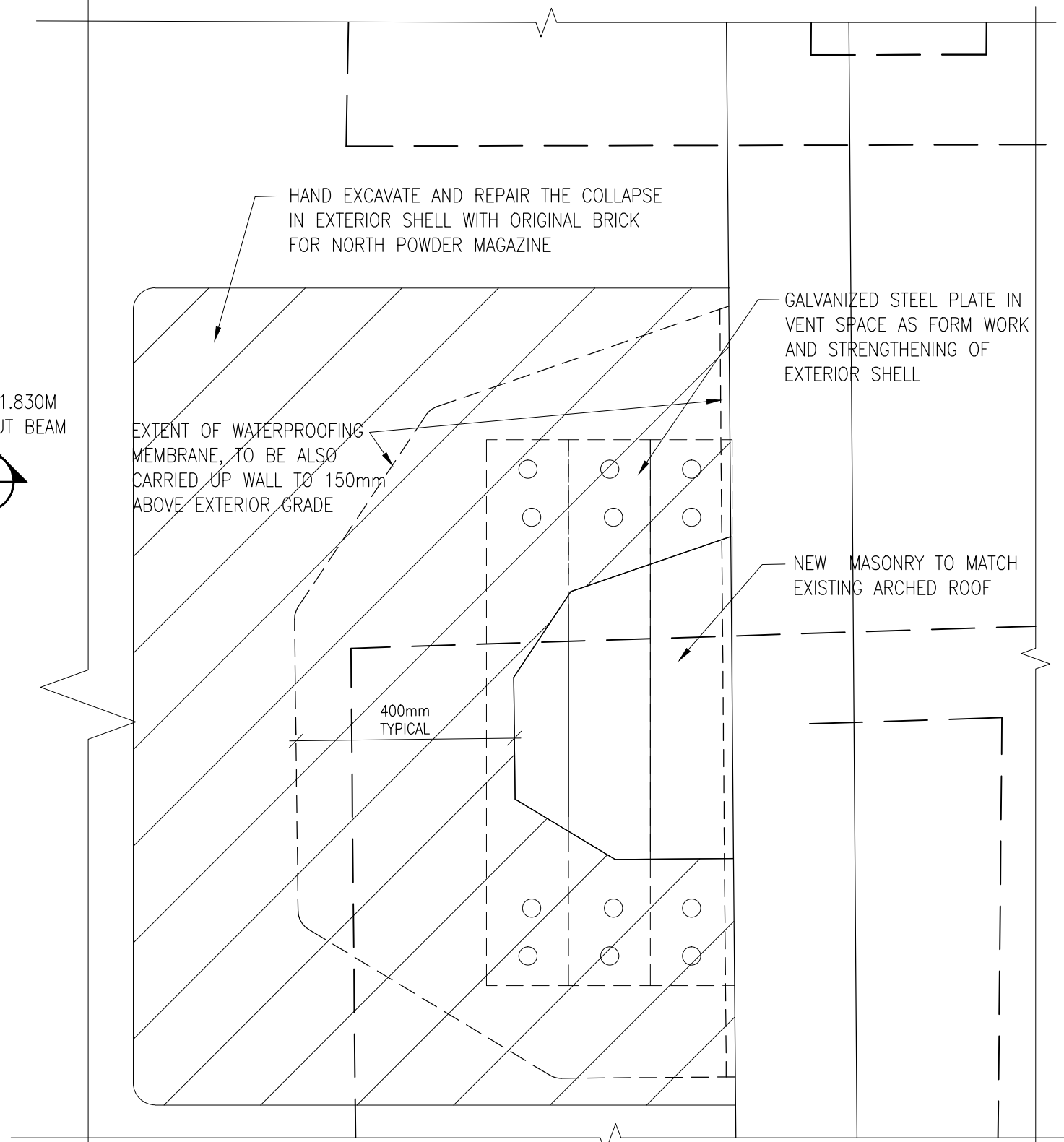
HAND EXCAVATE AND REPAIR THE COLLAPSE IN EXTERIOR ARCH WITH SALVAGED ORIGINAL BRICKS OR APPROVED REPLACEMENT. ASSUME 1.0 SQUARE METER OF ARCH REPAIRS. INSTALL WATER PROOFING OVER THE EXCAVATED AREA OVER THE ARCH SEE ARCHITECTURAL DRAWINGS.

REFER TO LANDSCAPING DRAWINGS FOR DETAILS



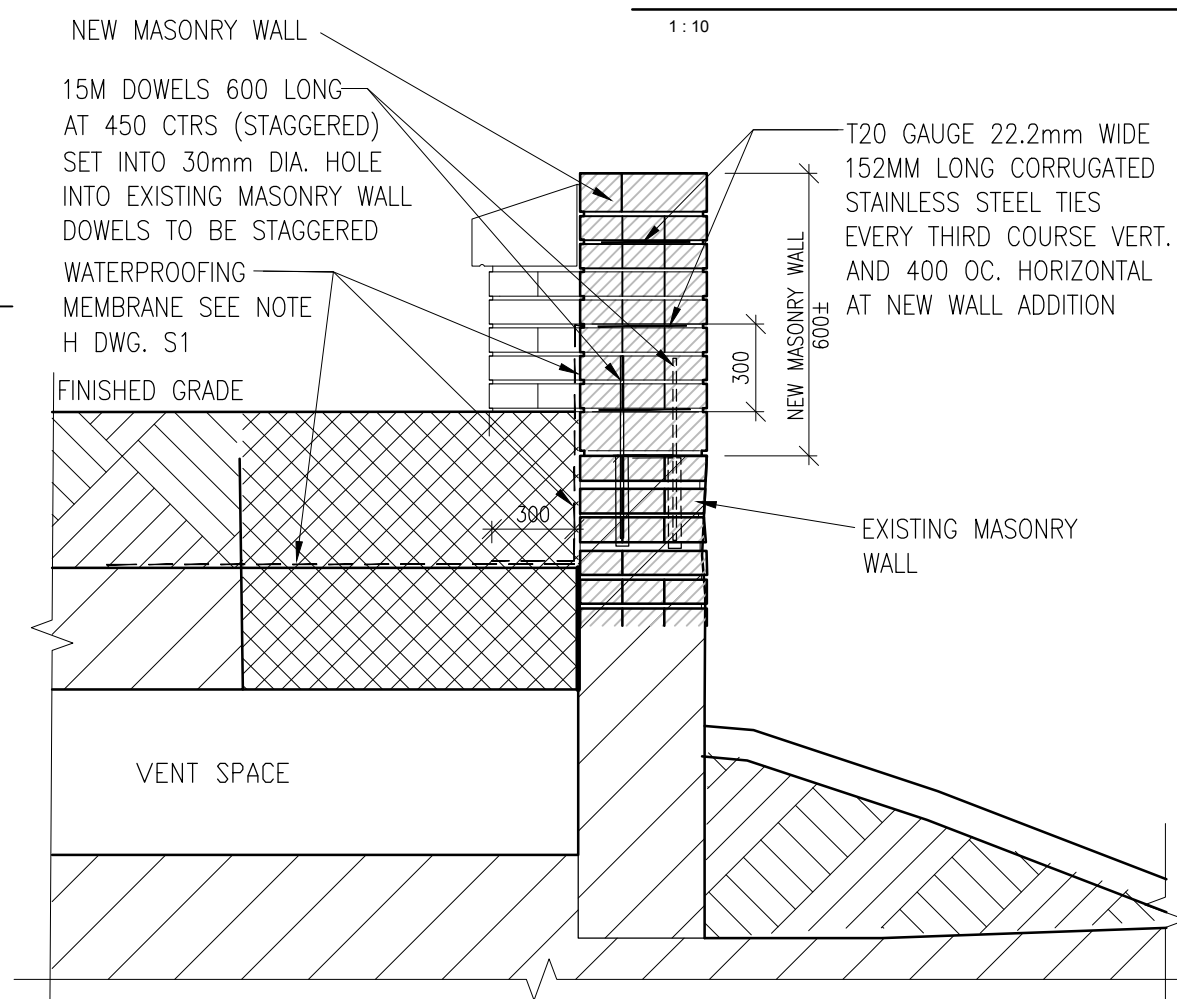
SECTION / ELEVATION

1:50



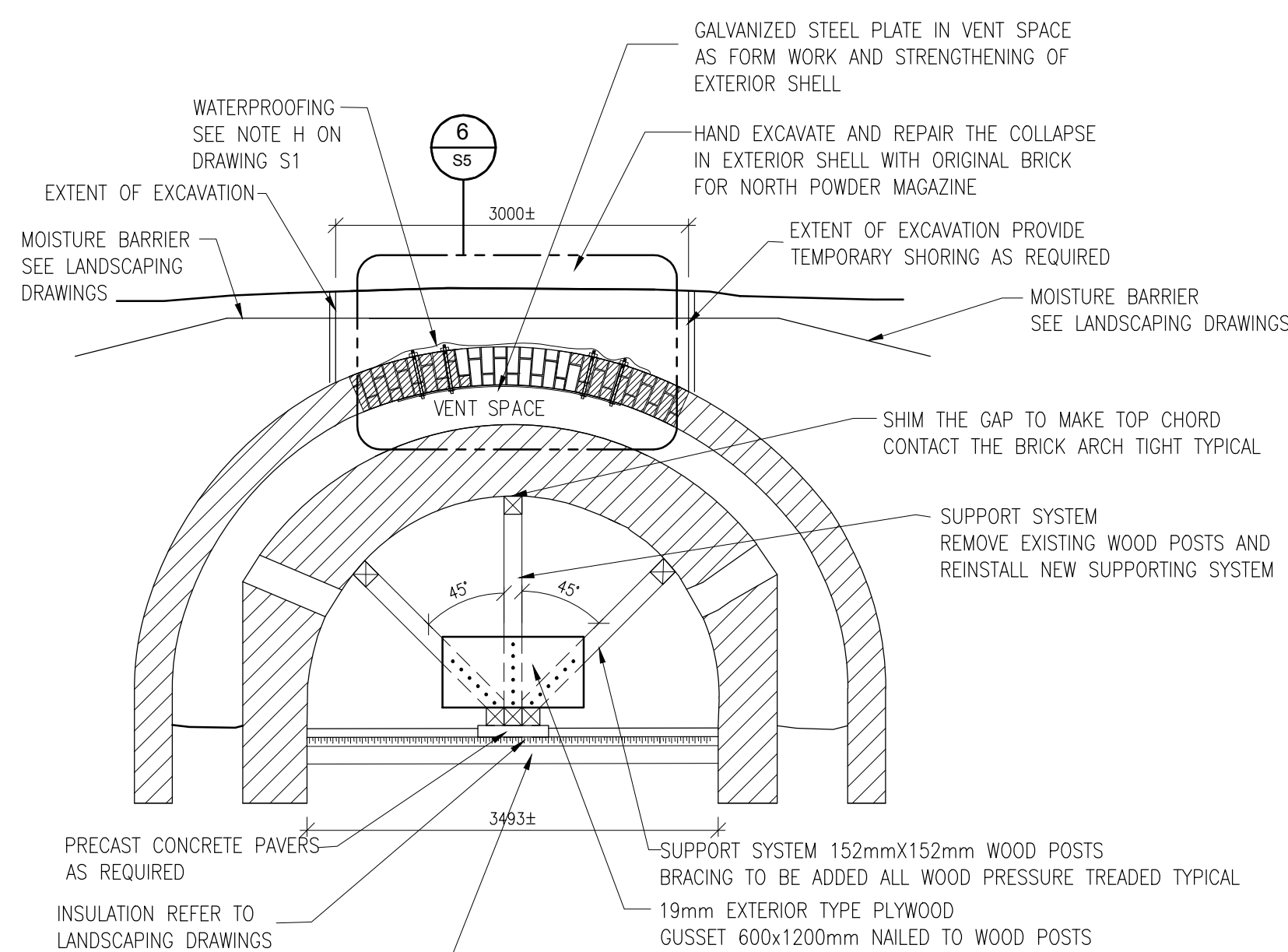
PLAN AT COLLAPSED ROOF AREA AT EXTERIOR ARCH

1:10



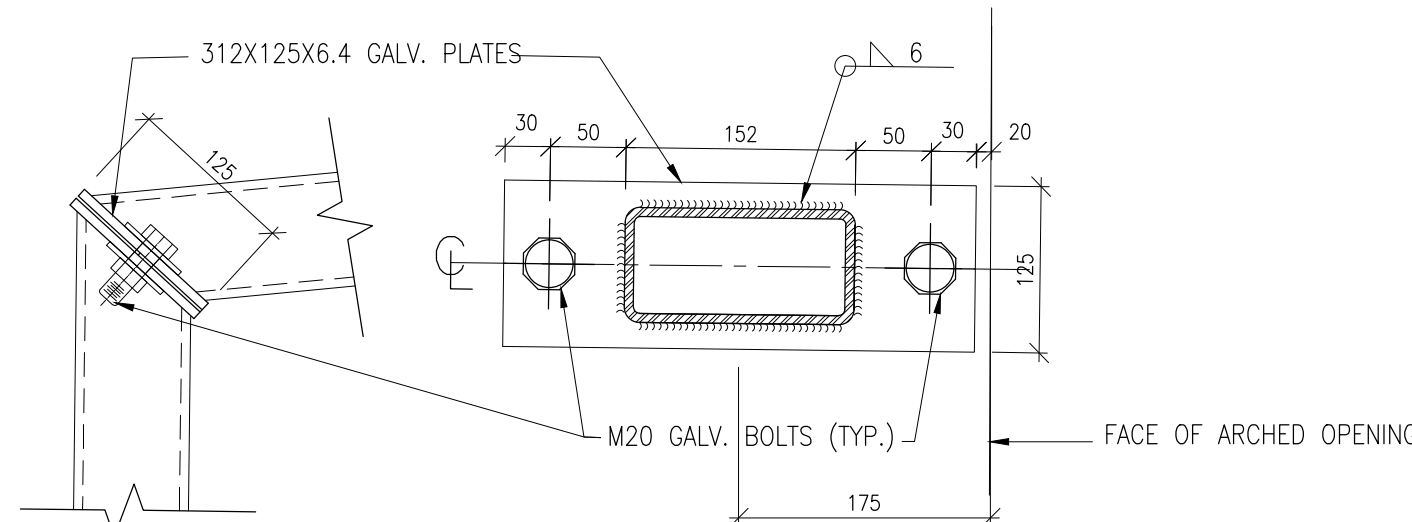
SECTION

1:20



CROSS SECTION

1:50



CONNECTION DETAIL

1:5

CONSTRUCTION NOTES FOR ARCH REPAIR:

- HAND EXCAVATE OVER THE EXTERIOR ARCH TO EXPOSE THE COLLAPSED AREA, THE EXTENT OF EXCAVATION AREA AT LEAST 0.5m WIDER THAN COLLAPSED AREA.
- SLIDE IN STEEL PLATE FROM THE OPENING OF COLLAPSE IN THE EXTERIOR ARCH AS FORMWORK FOR BRICK LAYING.
- DRILL HOLES IN THE SOUND BRICK ARCH ADJACENT TO THE COLLAPSE AREA, INSTALL STEEL ROD HANGER TIES TO THE STEEL PLATE FORMWORK THROUGH THE HOLES. FASTEN THE HANGER TIES TO THE SOUND BRICK ARCH WITH BOLTS AND BEARING PLATES.
- LAY BRICK WITH SALVAGED ORIGINAL BRICKS AND MORTAR FOLLOWING EXISTING BRICK LAYING PATTERN TO REPAIR THE COLLAPSED AREA.
- INSTALL WATERPROOFING MEL-ROL BY W.R. MEADOWS OR APPROVED EQUIVALENT OVER THE EXCAVATED AREA ON THE EXTERIOR SURFACE OF ARCH, AND TO EXTEND UP WALL TO 150mm ABOVE EXTERIOR GRADE.
- BACKFILL THE EXCAVATION WITH PREVIOUSLY DUG SOIL. APPLY OVERALL NORTH POWDER MAGAZINE WATERPROOFING TREATMENT AND MULCH AS PER LANDSCAPING DESIGN.
- WOOD FRAME DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION

04	REISSUED FOR TENDER	16/06/14
03	ISSUED FOR 100% ISSUED FOR TENDER	16/05/12
02	ISSUED FOR 99% REVIEW	16/04/08
01	ISSUED FOR 66% REVIEW	16/03/09
revision	issued / revisions	date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

A	A Detail number	A Numero de detail
S1	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters Dimensions lineaires en millimetres

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No. / No. de dossier _____



Canada

PARKS CANADA
SOUTHWEST ONTARIO FIELD UNIT



Type of Record /
Type d'enregistrement
TYPE

Project title / Titre du projet

FORT MISSISSAUGA
STABILIZATION
PHASE II

Drawing title / Titre du dessin

PLANS AND SECTIONS-
NORTH POWDER
MAGAZINE

Scale / Echelle

SCALE: AS NOTED

Drawn by/ Dessine par Date
MC 2016/04/08

Field Recording by /
Releve-Termain par Date
RG Y/M/D

Approved by / Approuve par Date
NW 2016/04/08

Checked by/ Verifie par
RG 2016/04/08

Project No./ No. du projet Asset No. Sheet No./
PRO000808 1300164 Feuille No.
Drawing Reference No./No. du Dessin

S4



Do not scale drawings.
Verify all dimensions and conditions on site and
immediately notify the engineer of all discrepancies.

Linear dimensions in millimeters	Dimensions lineaires en millimetres
Client Acceptance / Acceptation du client	
Signature _____	Date _____
File No. / No. de dossier _____	

PARKS CANADA
SOUTHWEST ONTARIO FIELD UNIT

Type of Record / Type d'enregistrement	TYPE
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Project title / Titre du projet

FORT MISSISSAUGA
STABILIZATION
PHASE II

Drawing title / Titre du dessin	
---------------------------------	--

DETAILS — NORTH
POWDER MAGAZINE

Scale / Echelle

SCALE: AS NOTED

Drawn by/ Dessine par	Date
MC	2016/04/08

Field Recording by / Releve-Temoin par	Date Y/M/D
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Approved by / Approuvé par _____

NW	Date
	2016/04/08

Checked by/ Verifie par

RG	2016/04/08
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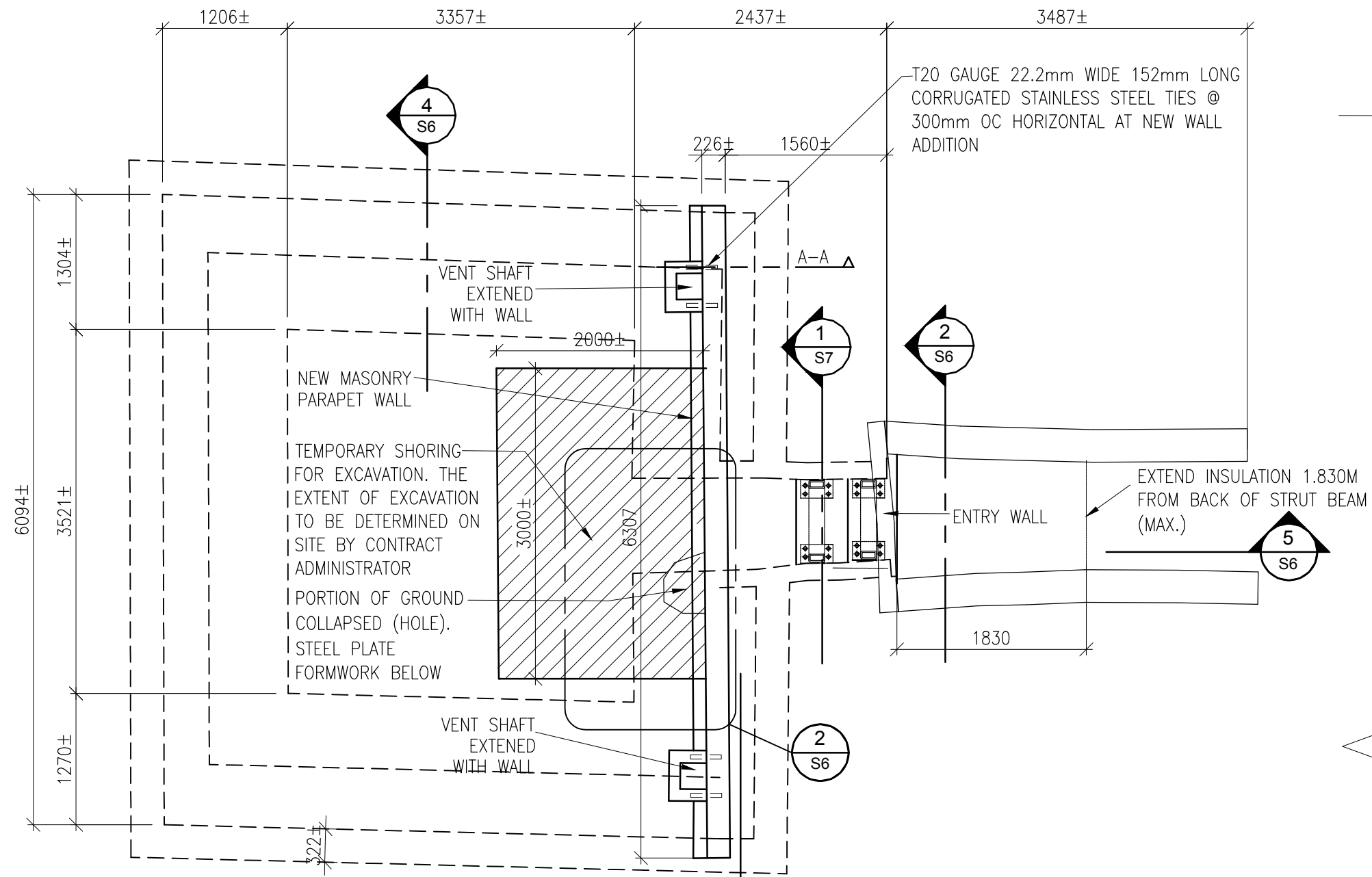
Project No./ No. du projet	Asset No.	Sheet No.
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PR0000808	1300164	Feuille N
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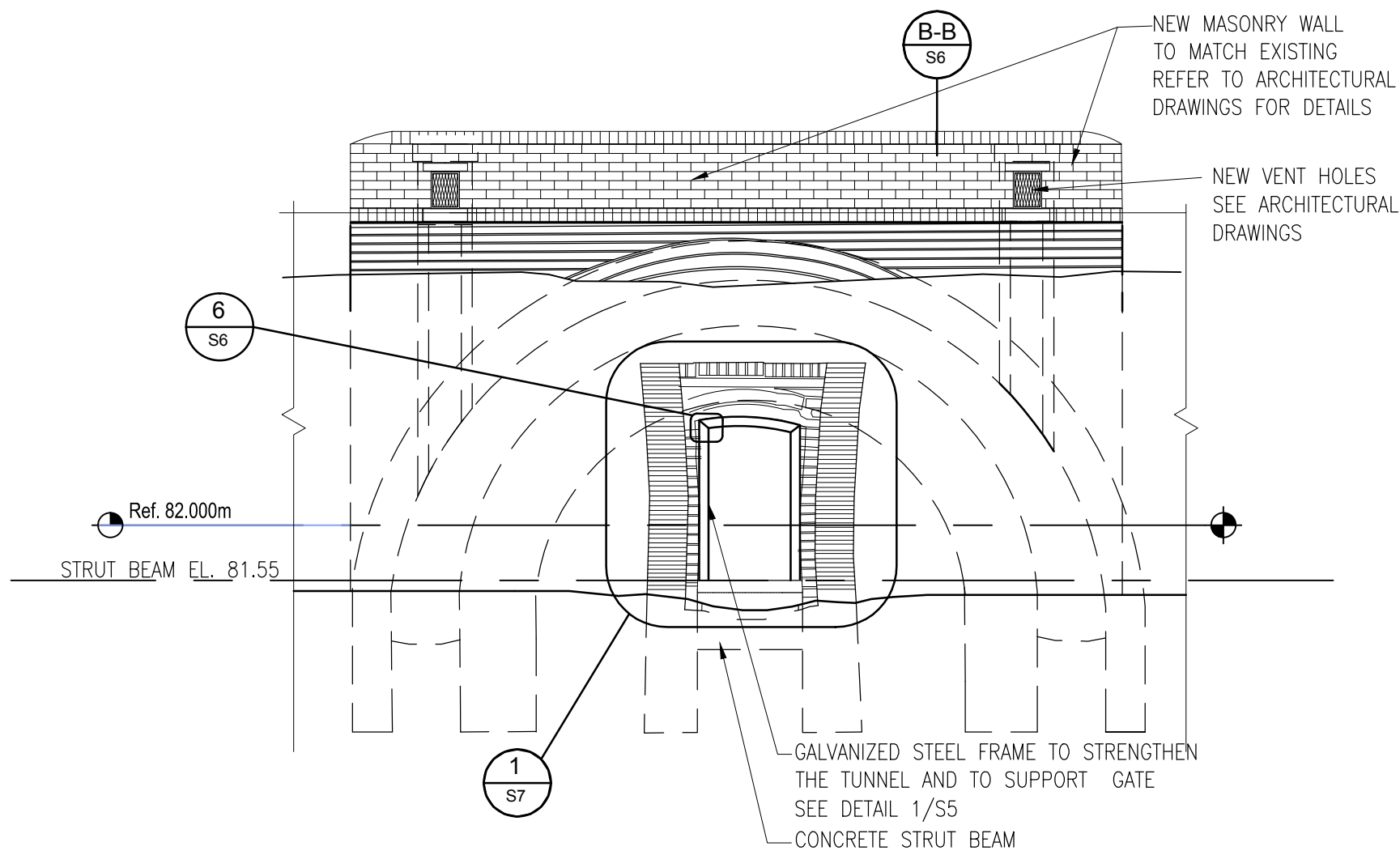
Drawing Reference No./No. du Dessin	
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S5

Filename: J:\OR\602951 Fort Mississauga\BT\68 Deliverables (Drawings)\LATEST-DWG PHASE 3-- DETAILED DESIGN--\100% ISSUED FOR TENDER\S6--PLANS AND SECTIONS--SOUTH POWDER MAGAZINE.dwg
Plotted: Jun 14, 2016 -- 12:43PM



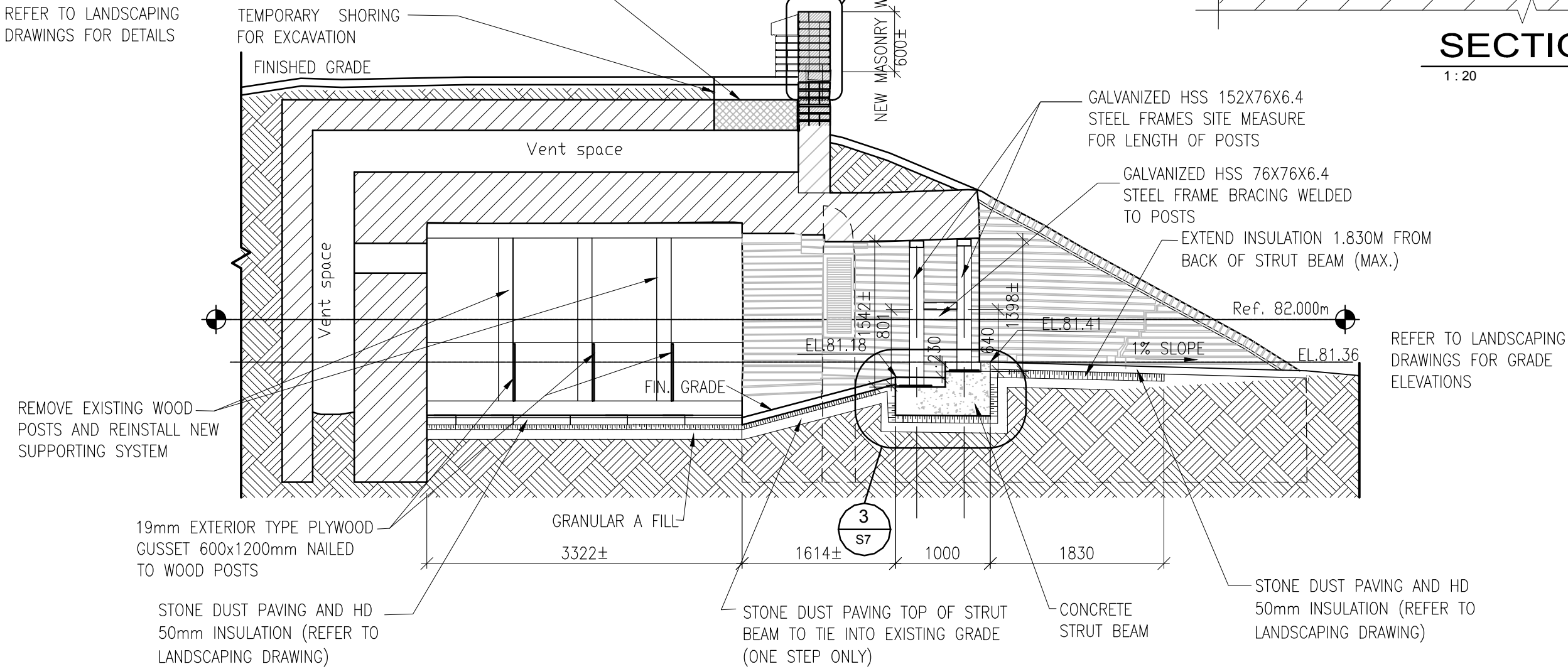
SOUTH POWDER MAGAZINE TOP VIEW 1:50



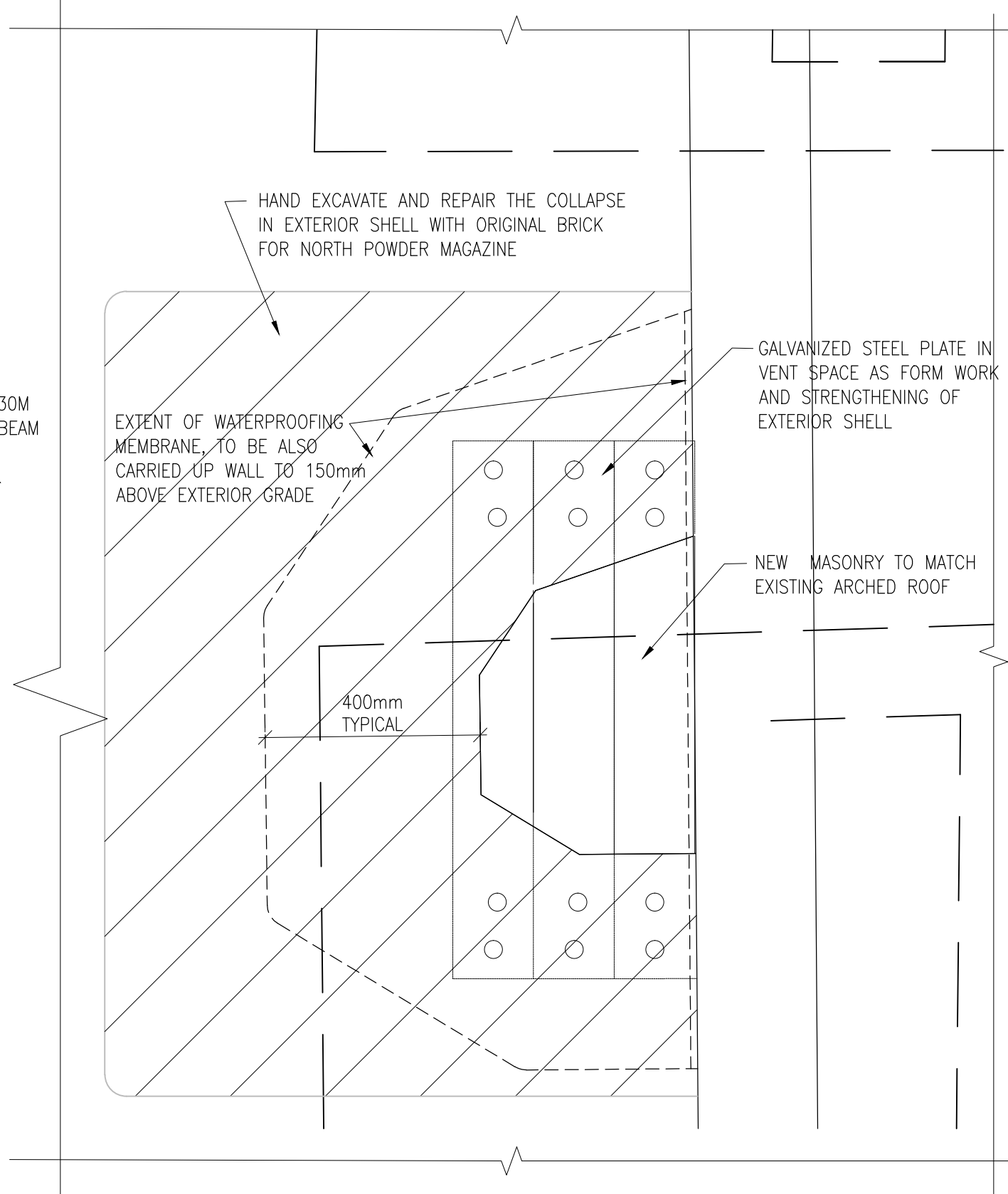
CROSS SECTION 2 1:50

HAND EXCAVATE AND REPAIR THE COLLAPSE IN EXTERIOR ARCH WITH SALVAGED ORIGINAL BRICKS OR APPROVED REPLACEMENT. ASSUME 1.0 SQUARE METER OF ARCH REPAIRS. INSTALL WATER PROOFING OVER THE EXCAVATED AREA OVER THE ARCH SEE ARCHITECTURAL DRAWINGS.

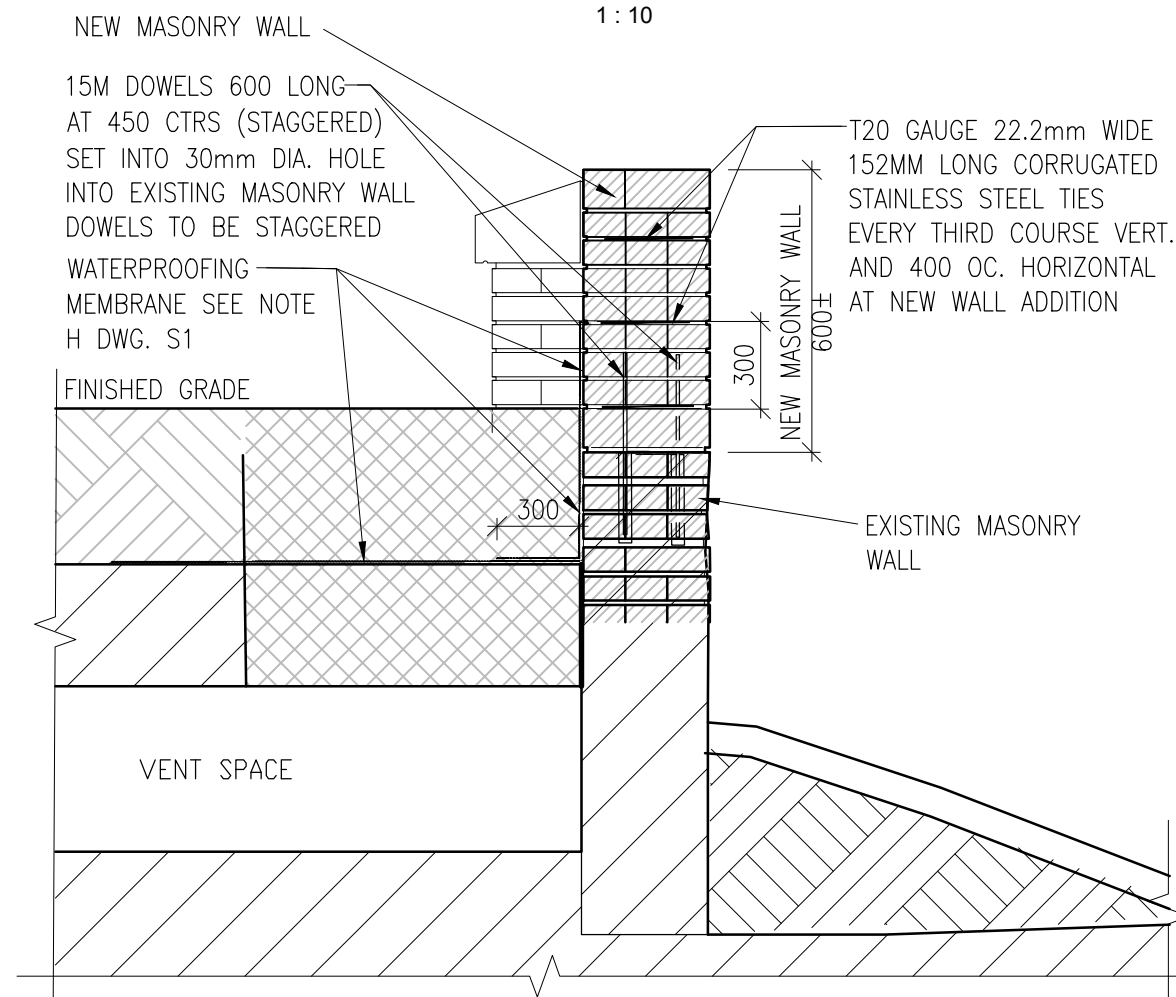
REFER TO LANDSCAPING DRAWINGS FOR DETAILS



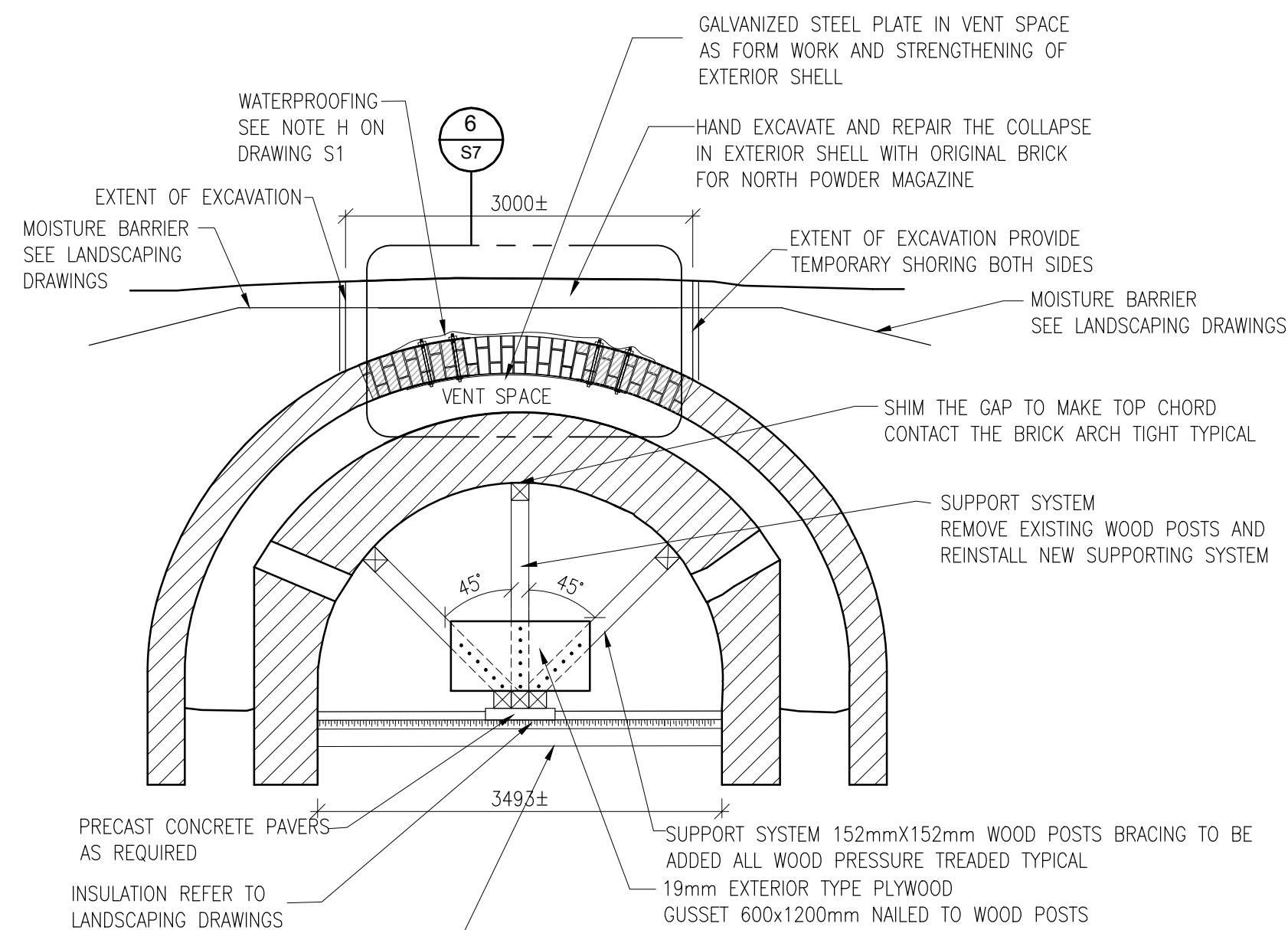
SECTION / ELEVATION 5 1:50



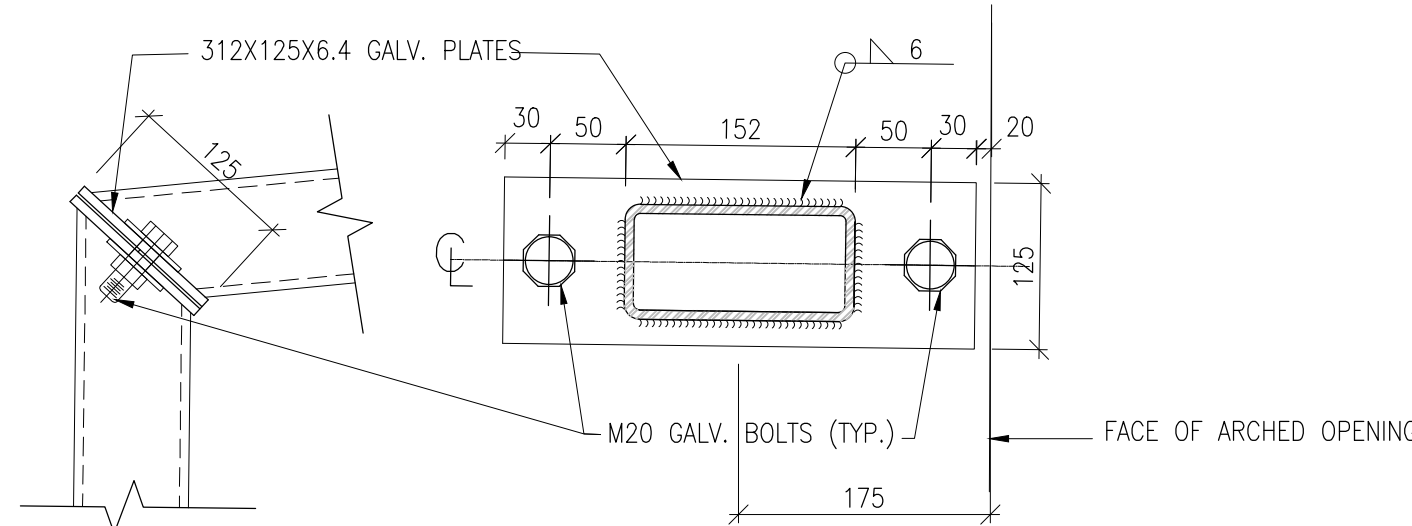
PLAN AT COLLAPSED ROOF AREA AT EXTERIOR ARCH 1:10



SECTION B-B 1:20



CROSS SECTION 4 1:50



CONNECTION DETAIL 6 1:5

CONSTRUCTION NOTES FOR ARCH REPAIR:

- HAND EXCAVATE OVER THE EXTERIOR ARCH TO EXPOSE THE COLLAPSED AREA, THE EXTENT OF EXCAVATION AREA AT LEAST 0.5m WIDER THAN COLLAPSED AREA.
- SLIDE IN STEEL PLATE FROM THE OPENING OF COLLAPSE IN THE EXTERIOR ARCH AS FORMWORK FOR BRICK LAYING.
-
- DRILL HOLES IN THE SOUND BRICK ARCH ADJACENT TO THE COLLAPSE AREA, INSTALL STEEL ROD HANGER TIES TO THE STEEL PLATE FORMWORK THROUGH THE HOLES. FASTEN THE HANGER TIES TO THE SOUND BRICK ARCH WITH BOLTS AND BEARING PLATES.
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- BACKFILL THE EXCAVATION WITH PREVIOUSLY DUG SOIL. APPLY OVERALL NORTH POWDER MAGAZINE WATERPROOFING TREATMENT AND MULCH AS PER LANDSCAPING DESIGN.
- WOOD FRAME DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO FABRICATION

04	REISSUED FOR TENDER	16/06/14
03	ISSUED FOR 100% ISSUED FOR TENDER	16/05/12
02	ISSUED FOR 99% REVIEW	16/04/08
01	ISSUED FOR 66% REVIEW	16/03/09

revision	issued / revisions	date
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Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero

Linear dimensions in millimeters Dimensions lineaires en millimetres

Client Acceptance / Acceptation du client
Signature _____ Date _____
File No. / No. de dossier _____



PARKS CANADA
SOUTHWEST ONTARIO FIELD UNIT



Type of Record / Type d'enregistrement
TYPE

Project title / Titre du projet
FORT MISSISSAUGA STABILIZATION PHASE II

Drawing title / Titre du dessin
PLANS AND SECTION SOUTH POWDER MAGAZINE

Scale / Echelle
SCALE: AS NOTED

Drawn by/ Dessine par
MC
Date
2016/04/08

Field Recording by /
Releve-Termain par
Date
Y/M/D

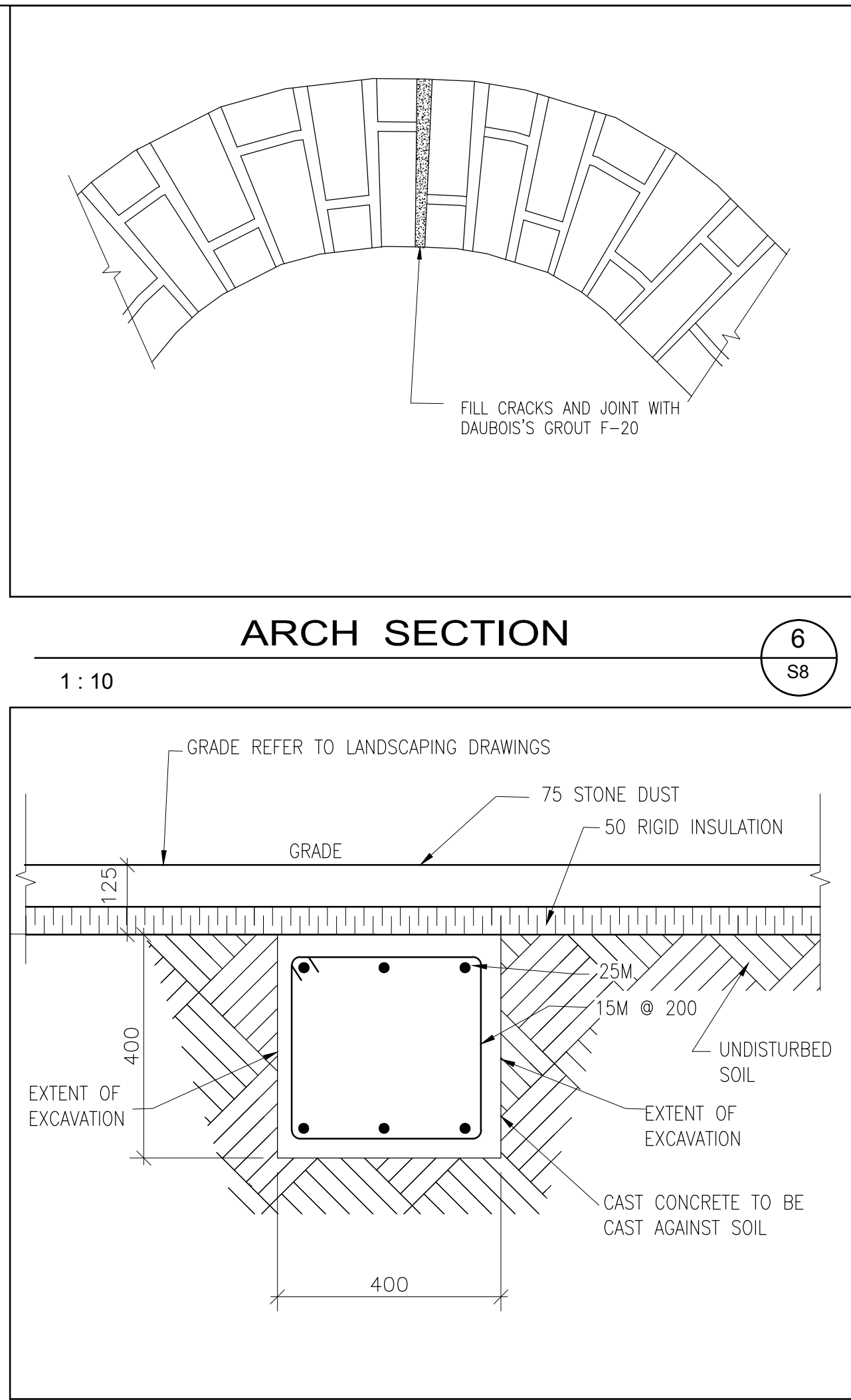
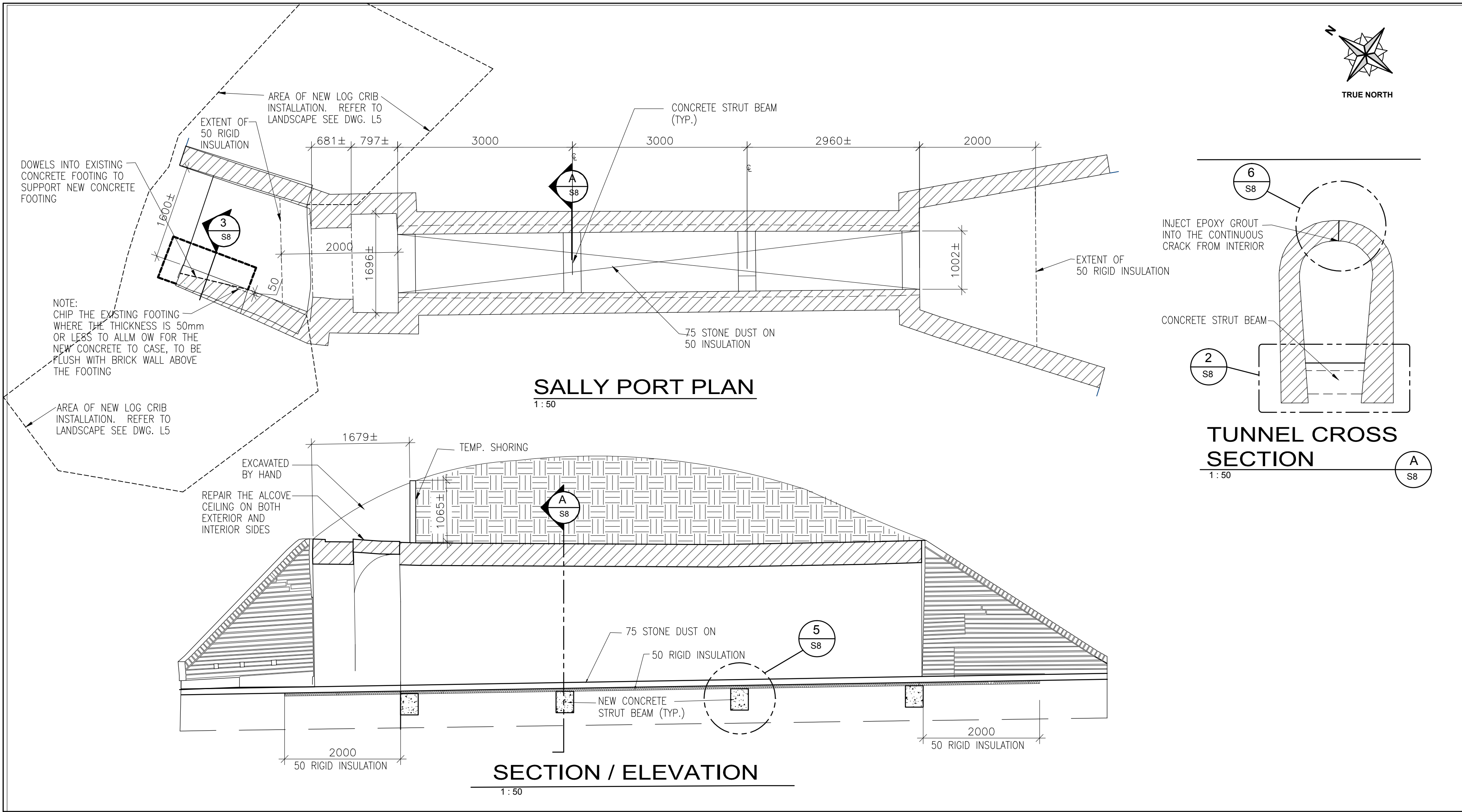
Approved by / Approuve par
NW
Date
2016/04/08




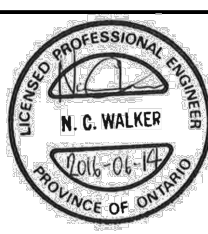
Checked by/ Verifie par
RG
Date
2016/04/08

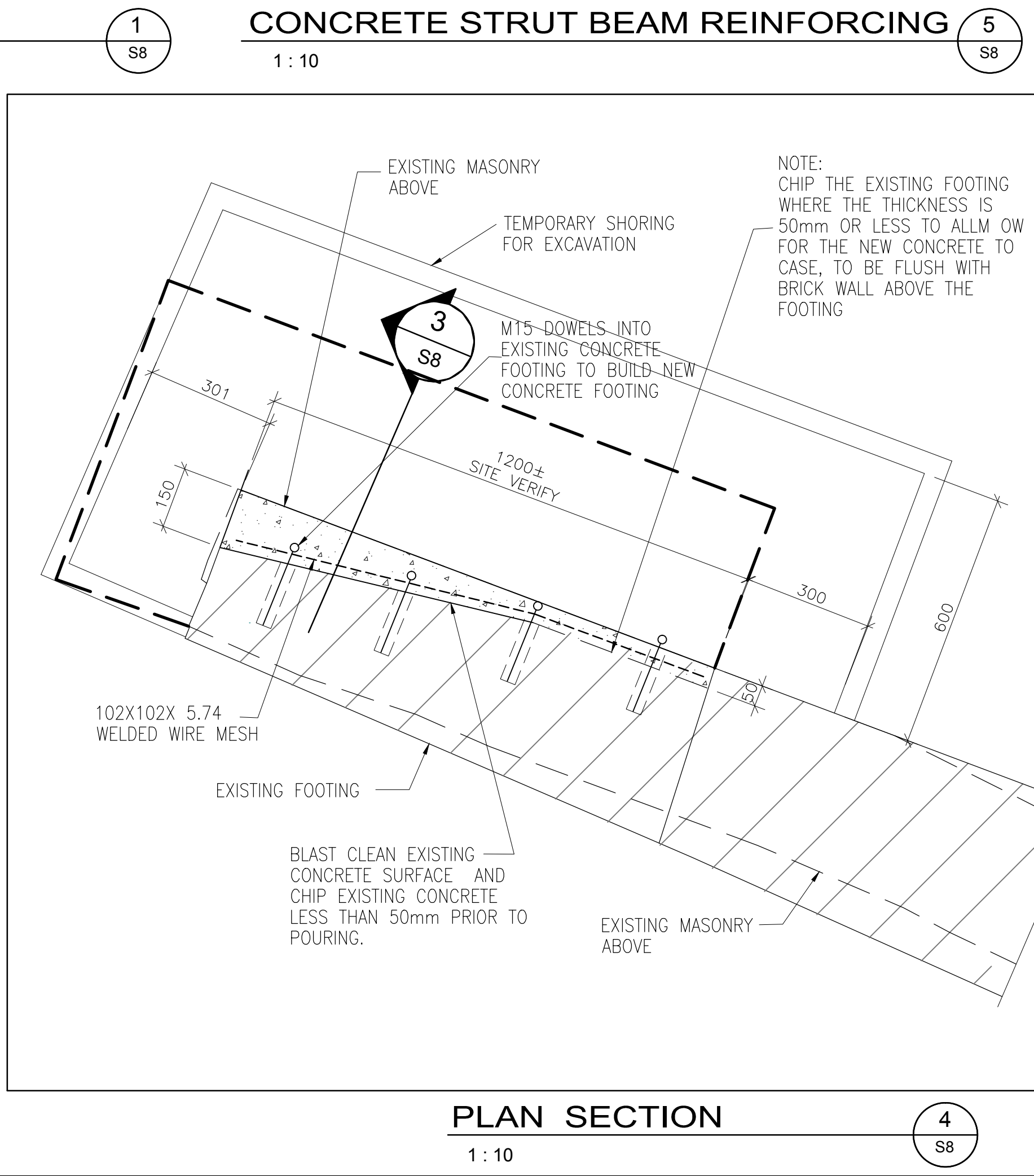
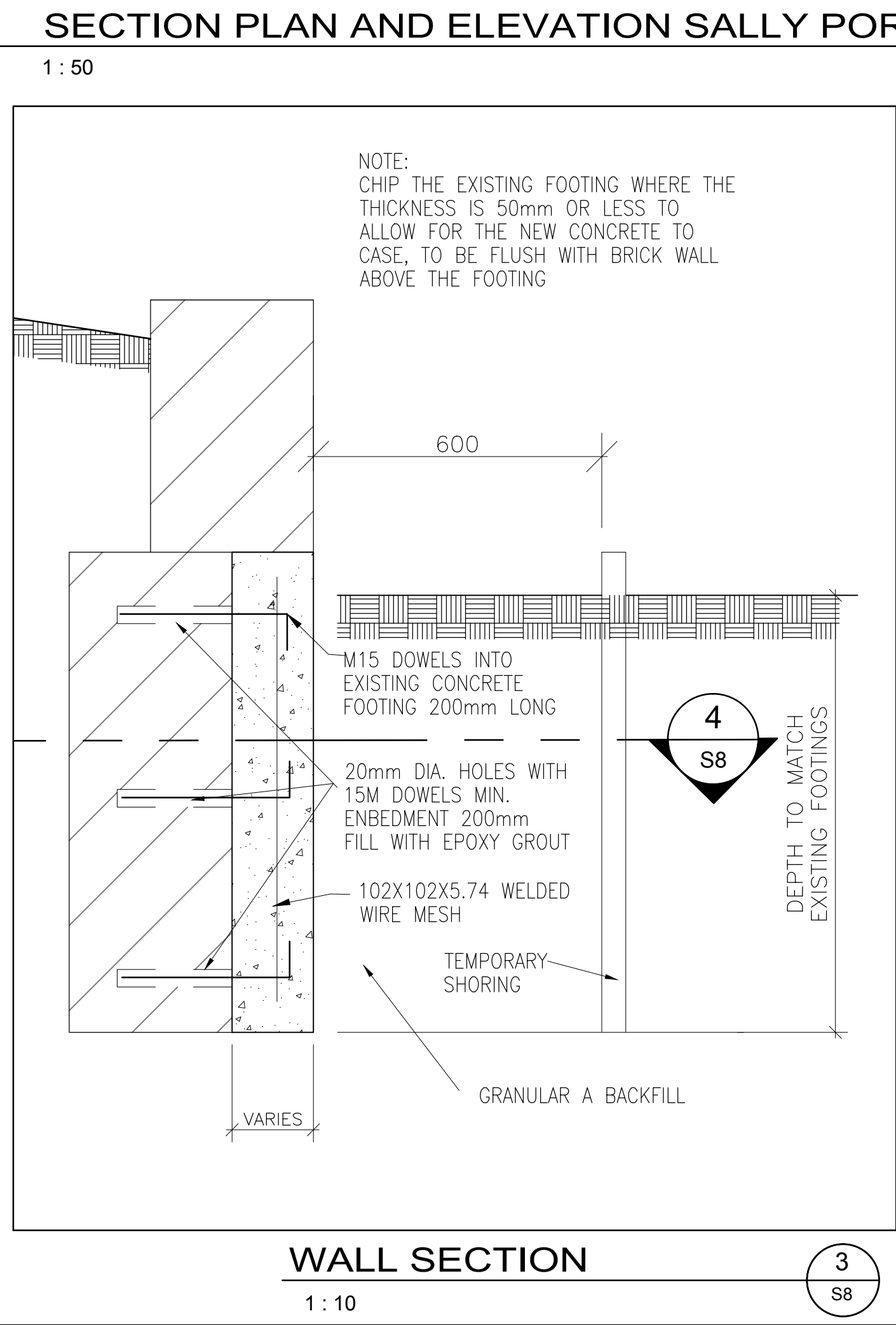
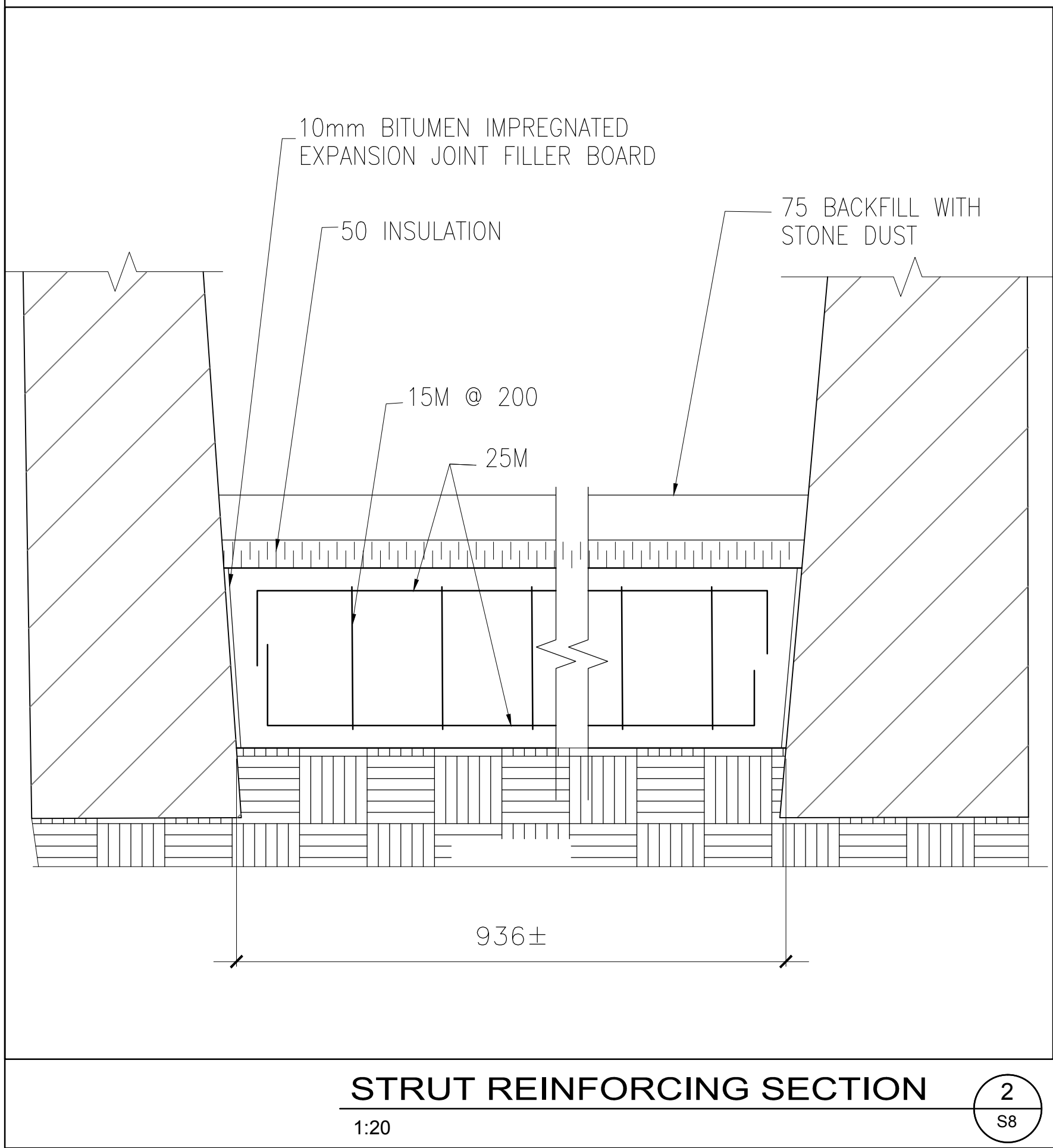
Project No./ No. du projet
PRO000808
Asset No.
1300164
Sheet No./
Feuille No.

Drawing Reference No./No. du Dessin
--/--
S6


Filename: J:\TOR\602951 Fort Mississauga\BT\6B Deliverables (Drawings)\LATEST-DWG PHASE 3- DETAILED DESIGN\S8-PLAN AND SECTIONS-SALLY PORT.dwg
Plotted: Jun 14, 2016 - 12:46PM



04	REISSUED FOR TENDER	16/06/14
03	ISSUED FOR 100% ISSUED FOR TENDER	16/05/12
02	ISSUED FOR 99% REVIEW	16/04/08
01	ISSUED FOR 66% REVIEW	16/03/09
revision	issued / revisions	date
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.		
A	A Detail number	A Numero de detail
B	B Sheet number	B Sur feuille numero
Linear dimensions in millimeters		Dimensions lineaires en millimetres
Client Acceptance / Acceptation du client		
Signature		Date
File No. / No. de dossier		
 Parcs Canada		
 Canada		
PARKS CANADA SOUTHWEST ONTARIO FIELD UNIT		
 PARSONS 625 Cochran Drive Suite 500 Markham, ON L3R 9W9 T: 905.943.0500 F: 905.943.0400 www.parsons.com JOB NO. 60295		
 N. C. WALKER PROFESSIONAL ENGINEER PROVINCE OF ONTARIO		
Type of Record / Type d'enregistrement		
TYPE		
Project title / Titre du projet		
FORT MISSISSAUGA STABILIZATION PHASE II		
Drawing title / Titre du dessin		
PLAN AND SECTIONS-- SALLY PORT		
Scale / Echelle		
SCALE: AS NOTED		
Drawn by/ Dessine par	Date	
MC	2016/04/08	
Field Recording by / Releve-Termain par	Date	
RG	Y/M/D	
Approved by / Approuve par	Date	
NW	2016/04/08	
Checked by/ Verifie par	Date	
RG	2016/04/08	
Project No./ No. du projet	Asset No.	Sheet No./ Feuille No.
PRO000808	1300182	
Drawing Reference No./No. du Dessin		S8
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<p>Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.</p>	
	<p>A Detail number A Numero de detail</p> <p>B Sheet number B Sur feuille numero</p>
<p>Linear dimensions in millimeters</p>	<p>Dimensions lineaires en millimetres</p>
<p>Client Acceptance / Acceptation du client</p>	
<p>Signature _____</p> <p>File No. / No. de dossier _____</p>	<p>Date _____</p>

PARKS CANADA
SOUTHWEST ONTARIO FIELD UNIT

Type of Record / Type d'enregistrement	TYPE
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Project title / Titre du projet

FORT MISSISSAUGA
STABILIZATION
PHASE II

Drawing title / Titre du dessin

OBSERVATION DECK

Scale / Echelle

SCALE: AS NOTED

Drawn by/ Dessine par	Date
MC	2016/04/08

Field Recording by / Releve-Temoin par	Date Y/M/D
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Approved by / Approuvé par	Date
NW	2016/04/08

Checked by/ Verifie par	
RG	2016/04/08

Project No./ No. du projet PRO000808	Asset No. 1300164	Sheet No. Feuille N
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PROJET	PROJET	C
Drawing Reference No /No. du Dessin		

S