
Addendum 1: The following changes/clarifications in the tender documents are effective immediately. This addendum will form part of the contract documents.

REVISIONS TO DRAWINGS:

1. Revise drawing S001 per attached clouded revisions
2. Revise drawing S105 per attached clouded revisions
3. Revise drawing S203 per attached clouded revisions
4. Revise drawing S204 per attached clouded revisions
5. Revise drawing S205 per attached clouded revisions
6. Revise drawing S206 per attached clouded revisions
7. Revise drawing S208 per attached clouded revisions
8. Revise drawing E100 per attached clouded revisions

Revisions to Specifications

1. Section 01 51 01 Temporary Facilities: replace clause 1.8.2.1 with the following:
"A minimum of 240 sq ft of office space for exclusive use of Departmental Representative's consultant team and other personnel as determined by the Departmental Representative. Office space may be one or more buildings containing a minimum of 2 separate lock-up offices and one meeting room. The offices shall be furnished with desks and chairs, and the meeting room shall have a table, six chairs and a white board. The offices shall be equipped with internet access, and a colour printer capable of printing letter size as well as 11x17 size paper, and with connectivity with each office space. -Power, drinking water, heating and maintenance of the buildings are Contractor's responsibility"
2. Section 05 12 33 Structural Steel for Bridges, omit specification 05 12 33 Issued for Tender and replace with specification Section 05 12 33 Issued for Tender - Addendum 1.
3. Section 28 31 00 Fire Detection and Alarm, delete clause 1.7.1.4.

END OF ADDENDUM 1

Part 1 General

1.1 DESCRIPTION

- .1 This Section covers the supply, fabrication, and installation of the removable roadway bridge at the east end of the extended dock.

1.2 RELATED REQUIREMENTS

- .1 Section 01 33 00 (Submittal Procedures)
- .2 Section 02 41 16.01 (Structure Demolition)
- .3 Section 03 30 00 (Cast-in-Place Concrete)
- .4 Section 03 39 00 (In-Situ Concrete Structures)
- .5 Section 05 50 00 (Metal Fabrications)
- .6 Section 09 97 19 (Painting Exterior Metal Surfaces)
- .7 Section 26 05 27 (Grounding)

1.3 MEASUREMENT AND PAYMENT PROCEDURES

- .1 Work items related to the removable bridge will not be measured individually. All work items related to removable bridge will be paid for at the Lump Sum price tendered for REMOVABLE BRIDGE. Payment shall be full compensation for all work in connection with the supply, fabrication, and installation of steel removable bridge, splices, bearings, bolts, nuts and washers, survey, levelling, testing, aligning and grouting:
 - .1 Ensure lump sum price includes radiographic examination of optional shop splices and additional field splices.

1.4 REFERENCES

- .1 American Association for State Highway and Transportation Officials (AASHTO)
 - .1 AASHTO Standard Specifications for Highway Bridges-[17th Edition 2002].
- .2 ASTM International
 - .1 ASTM A325M-[09], Standard Specification for Structural Bolts, Steel, Heat Treated 830 MPa Minimum Tensile Strength [Metric].
 - .2 ASTM A490M-[09], Standard Specification for High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints.
- .3 CSA International

- .1 CSA G40.20/G40.21-[04(R2009)], General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
- .2 CAN/CSA G164-[M92(R2003)], Hot Dip Galvanizing of Irregularly Shaped Articles.
- .3 CAN/CSA S6-19, Canadian Highway Bridge Design Code.
- .4 CSA S16-14, Design of Steel Structures.
- .5 CSA S269.1-[1975(R2003)], Falsework for Construction Purposes.
- .6 CSA W48-[06], Filler Metals and Allied Materials for Metal Arc Welding.
- .7 CSA W59-[03(R2008)], Welded Steel Construction, (Metal Arc Welding).
- .4 United States Department of Defence
 - .1 MIL-PRF-24667 - Performance Specification Coating System, Non-Skid, For Roll, Spray, Or Self-Adhering Application.

1.5 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 (Submittal Procedures).
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for structural steel and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit product data sheets for non-skid coating system.
 - .3 Submit mock-up samples of galvanized and coated bridge deck material of sufficient size to show full surface texture and pattern of coating.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in the Province of British Columbia, Canada.
 - .2 Indicate shop and erection details including shop splices, cuts, copes, connections, holes, bearing plates, threaded fasteners, rivets and welds. Indicate welds by CSA W59, welding symbols.
 - .3 Proposed welding procedures to be stamped and approved by Canadian Welding Bureau.
 - .4 Submit description of methods, temporary bracing and strengthening, sequence of erection and type of equipment proposed for use in erecting structural steel.

1.6 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, store and handle in accordance with Section [01 61 00 - Common Product Requirements].
- .2 Provide protective blocking for lifting, transportation and storing.

- .1 Exercise care during fabrication, transportation and erection so as not to damage girders and beams.
- .2 Do not notch edges of members.
- .3 Do not cause excessive stresses.
- .3 Mark mass on members weighing more than 3 tonnes.
- .4 Ensure that no portion of steel comes into contact with ground.
- .5 Ensure that no items bear on the coated deck.
- .6 Provide Departmental Representative with delivery schedules minimum 14 days prior to shipping.
- .7 Replace defective or damaged materials with new.

1.7 QUALITY ASSURANCE

- .1 Preconstruction Testing:
 - .1 Provide suitable facilities and cooperate with Departmental Representative in carrying out inspection and tests required.

Part 2 Products

2.1 MATERIALS

- .1 All bridge steel to be hot dip galvanized.
- .2 Traffic surface of bridge deck to be coated with non-skid coating after galvanizing.
- .3 Structural steel: to CSA G40.20/G40.21, grade and types 350WT Category 2.
- .4 High strength bolts, nuts and washers: to ASTM A325M, galvanized.
- .5 Anchor bolts, washers and nuts: to ASTM A193 GRB8 Class 2..
- .6 Bearings: elastomer bearing pads of neoprene, grade 60 to CAN/CSA S6.
- .7 Welding electrodes: to CSA W48 series.
- .8 Hot dip galvanizing: to CAN/CSA G164, minimum zinc coating of [600] g/m².
- .9 Non-skid coating: To MIL-PRF-24667C Type I, V or VI, Composition G.
- .10 Shrinkage compensating grout: premixed compound consisting of non-metallic aggregate, Portland cement, water reducing and plasticizing agents.

2.2 SOURCE QUALITY CONTROL

- .1 Steel producer qualifications: certified in accordance with CSA G40.20/G40.21.

- .2 Submit Departmental Representative 2 copies of certified test reports for Charpy V-notch test.
- .3 Provide suitable facilities and co-operate with Departmental Representative in carrying out inspection and tests required.

Part 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for structural steel installation in accordance with manufacturer's written instructions.
 - .1 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .2 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 PREPARATION

- .1 Clean steel surfaces as directed by Departmental Representative when staining or defacing occurs.
- .2 Verify location of substructure units, elevations of bearing seats and location of anchor bolts before erection of structural steel; report discrepancies to Departmental Representative.
- .3 Restrict drifting during assembly to minimum required to bring parts into position without enlarging or distorting holes, and without distorting, kinking or sharply bending metal of any unit.
 - .1 Enlarge holes if necessary, by reaming only after receipt of written approval from Departmental Representative.
 - .2 Ensure reamed holes are 2 mm maximum larger than bolt size used.
- .4 Bridge elements to be trial assembled prior to galvanizing of individual elements.
- .5 Fabricate and install bearings as indicated.
- .6 Coat traffic surface of bridge in full conformance with coating suppliers' requirements.

3.3 INSTALLATION

- .1 Do falsework in accordance to CSA S269.1.
- .2 Do fabrication and erection of structural steel in accordance with CAN/CSA S6, Design of Highway Bridges.

- .3 Do welding in accordance with CSA W59, except where specified otherwise.
 - .1 For CSA G40.20/G40.21, grade 350WT steel, deposited weld metal to have Charpy V-Notch value not lower than that of steel.
 - .2 Do welding in shop unless otherwise permitted by Departmental Representative.
 - .3 Weld only at locations indicated.
- .4 High strength bolting: in accordance with CAN/CSA S6. Use 'turn-of-nut' tightening method.
- .5 Finish: members true to line, free from twists, bends, open joints, sharp corners and sharp edges.
- .6 Allowable tolerance for bolt holes:
 - .1 Matching holes for bolts to line up so that dowel 2 mm less in diameter than hole passes freely through assembled members at right angles to such members.
 - .2 Finish holes not more than 2 mm in diameter larger than diameter of rivet or bolt unless otherwise specified by Departmental Representative.
 - .3 Centre-to-centre distance between any two holes of group to vary by not more than 1 mm from dimensioned distance between such holes.
 - .4 Centre-to-centre distance between any two groups of holes to vary not more than maximum of the following:

Centre-to-Centre distance in metres	Tolerance in plus or minus mm
less than 10	1
10 to 20	2
20 to 30	3

- .5 Correct mis-punched or mis-drilled members only as directed by Departmental Representative
- .7 Span length tolerances:
 - .1 Girders and beams: plus or minus 6 mm
 - .2 Centre-to-centre of bearing stiffeners and bearing plates: plus or minus 3 mm.
- .8 Shop splices:
 - .1 Use complete joint penetration groove welds finished flush.
 - .2 Details of butt joints to CSA W59.
 - .3 Use only as approved by Departmental Representative.
- .9 Camber:
 - .1 Camber tolerances for plate girders to be to CSA W59.

- .2 Record measurements of camber of each girder, at points indicated.
- .3 Submit diagram to Departmental Representative showing camber for each girder fabricated.
- .4 Advise Departmental Representative immediately when camber of fabricated girder is greater than specified tolerances.
- .5 Submit proposal for corrective measures.
- .6 Undertake remedial measures as approved by Departmental Representative.
- .10 Shop erection:
 - .1 Support each girder on its bearing points and measure and record deflection at same points indicated for measurement of camber.
 - .2 Measure deflections in plane of girder web.
 - .3 Submit diagram to Departmental Representative showing deflection measurements for each girder before delivery.
- .11 Mark members in accordance with CSA G40.20/G40.21.
 - .1 Do not use die stamping.
 - .2 Place marking at locations hidden when viewed from exterior after erection when steel is to be left in unpainted condition.
- .12 Match marking: shop mark bearing assemblies and splices.
- .13 Protect exposed concrete surfaces of substructures from staining.
 - .1 Use galvanized anchors for anchorage to concrete.
 - .2 Submit details of installation and methods of support to Departmental Representative for review prior to commencing protection work.

3.4 FIELD QUALITY CONTROL

- .1 Manufacturer's Field Services:
 - .1 Obtain written report from manufacturer verifying compliance of Work, in handling, installing, protecting and cleaning of steel.
 - .2 Submit manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
 - .3 Ensure manufacturer's representative is present before installation, during critical periods of installation and during construction of field joints and testing.
 - .4 Schedule site visits:
 - .1 After delivery and storage of products, and when preparatory Work, or other Work, on which the Work of this Section depends, is complete but before installation begins.

- .2 Twice during progress of Work at 25% and 60% complete.
- .3 Upon completion of the Work, after cleaning is carried out.

3.5 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

END OF SECTION

DESIGN CRITERIA:

- DESIGN BASIS: CAN/CSA S6-19, CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC)
 - APRON LIVE LOADS: (ALL LOADS ARE UNFACTORED)
 - UNIFORMLY DISTRIBUTED LOAD (UDL): 48kPa
 - APRON UDL NEED NOT BE CONSIDERED COINCIDENT WITH VEHICLE WHEEL LOADS
 - AXLE LOADING:
 - TRUCK LOADING (CL-625 PER S6, LATEST VERSION):
 - FRONT AXLE: 50kN (DISTRIBUTED TO 2 WHEELS)
 - REAR TANDEM AXLES: 175kN (DISTRIBUTED TO 4 PAIRS OF WHEELS)
 - MOBILE CRANE LOADING (GROVE GRT880E):
 - FRONT AXLE: 269kN (DISTRIBUTED TO 2 WHEELS)
 - REAR AXLE: 247kN (DISTRIBUTED TO 2 WHEELS)
 - OUTRIGGER LOAD: 375kN ON 775mmØ PAD
 - ESQUIMALT FIRE TRUCK (TYPE 1), 1993 THIBAUT ENGINE:
 - FRONT AXLE: 75kN (DISTRIBUTED TO 2 WHEELS)
 - REAR AXLE: 100kN (DISTRIBUTED TO 2 PAIRS OF WHEELS)
 - ESQUIMALT FIRE TRUCK (TYPE 2), 1999 E LADDER TRUCK:
 - FRONT AXLE: 85kN (DISTRIBUTED TO 2 WHEELS)
 - REAR TANDEM AXLES: 210kN (DISTRIBUTED TO 4 PAIRS OF WHEELS)
 - ESQUIMALT FIRE TRUCK (TYPE 3), 2008 FORT GARY RESCUE TRUCK:
 - FRONT AXLE: 55kN (DISTRIBUTED TO 2 WHEELS)
 - REAR AXLE: 105kN (DISTRIBUTED TO 2 PAIRS OF WHEELS)
 - ESQUIMALT FIRE TRUCK (TYPE 4), 2018 ROSENBAUER:
 - FRONT AXLE: 101kN (DISTRIBUTED TO 2 WHEELS)
 - REAR TANDEM AXLES: 280kN (DISTRIBUTED TO 4 PAIRS OF WHEELS)
- DYNAMIC LOAD ALLOWANCE (DLA) SHOULD BE ADDED TO ALL AXLE/WHEEL LOADS.
- 30T GANTRY CRANE:
 - MAXIMUM WHEEL LOADS (ALL LOADS ARE UNFACTORED)
 - STATIC LOAD: 299kN
 - OPERATING LOAD: 377kN
 - WORKING WIND LOAD: 464kN
- DRY DOCK FLOOR SLAB LIVE LOADING: (ALL LOADS ARE UNFACTORED)
 - KEEL BLOCKS: 2,640kPa
- LIVE LOADING WITHIN ACCESS CHAMBER: (ALL LOADS ARE UNFACTORED) UNIFORMLY DISTRIBUTED LOAD (UDL) = 3.6kPa
- MOORING LOADS: (ALL LOADS ARE UNFACTORED)
 - 37.5 TONNE CLEAT: 334kN
THE MOORING LINE LOADS CAN BE APPLIED AT UP TO 30° ABOVE HORIZONTAL, AND IN ANY OFFSHORE DIRECTION (-90° TO +90°) ON PLAN.
- SEISMIC LOADS: LOADING BASED ON SITE SPECIFIC SEISMIC DATA OBTAINED FROM NATIONAL RESOURCES CANADA, FOR THE A2475 EVENT IN ACCORDANCE WITH NBC 2015 AS FOLLOWS:

	A2475 EVENT
PROBABILITY OF EXCEEDANCE PER ANNUM	0.000404
PROBABILITY OF EXCEEDANCE IN 50 YEARS	2%
So(0.2)	1.310
So(0.5)	1.169
So(1.0)	0.688
So(2.0)	0.407
PEAK HORIZONTAL GROUND ACCELERATION, A	0.586g

GENERAL NOTES:

GENERAL:

- READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTS. REPORT ANY CONFLICTS TO THE DEPARTMENTAL REPRESENTATIVE BEFORE COMMENCING WORK.
- VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR'S RESPONSIBILITY: THESE DRAWINGS SHOW COMPLETED STRUCTURAL COMPONENTS. THE REQUIRED TEMPORARY FALSEWORK, FORMWORK, BRACING AND SHORING TO PERFORM THE WORK SAFELY IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ENVIRONMENTAL WORK PROCEDURES, TIMING, AND SPECIAL PRECAUTIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- NOTIFY DEPARTMENTAL REPRESENTATIVE 48 HOURS IN ADVANCE FOR REVIEW OF STRUCTURAL COMPONENTS BEFORE COVERING UP.
- UNDER NO CIRCUMSTANCES SHALL DRAWINGS BE SCALED. COMPONENTS MAY BE SHOWN SCHEMATICALLY.
- ELEVATIONS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRES.
- DATUM: ELEVATIONS ON DRAWINGS ARE GIVEN TO GEODETIC DATUM.

TIDE ELEVATIONS:	CHART DATUM:	GEODETIC DATUM:
EXTREME HIGH WATER LEVEL (E.H.W.L.)	3.8m	1.929m
HIGHER HIGH WATER LEVEL (H.H.W.L.)	3.4m	1.529m
MEAN WATER LEVEL (M.W.L.)	1.9m	0.029m
LOWER LOW WATER LEVEL (L.L.W.L.)	0.1m	-1.971m
EXTREME LOW WATER LEVEL (E.L.W.L.)	-0.5m	-2.371m

PWGSC SITE BENCHMARK IS "BOLT". FROM PWGSC PLAN SK4593-1 DATED OCTOBER 1989, "BOLT" IS ELEVATION 4.725m TO PWGSC DATUM, BOLT IS 4.849m ABOVE L.L.W.L.; L.L.W.L. IS 0.124m BELOW PWGSC DATUM 0.0; L.L.W.L. IS 1.871m BELOW GEODETIC ELEVATION.

- TO CONVERT FROM GEODETIC DATUM TO CHART DATUM, ADD 1.871m.
- TO CONVERT FROM GEODETIC DATUM TO PWGSC DATUM, ADD 1.747m.
- TO CONVERT FROM PWGSC DATUM TO CHART DATUM, ADD 0.124m.

CHART	PWGSC	GEODETIC
H.H.W.L.: 3.400	H.H.W.L.: 3.276	H.H.W.L.: 1.529
GEODETIC DATUM: 1.871	GEODETIC DATUM: 1.747	GEODETIC DATUM: 0.000
PWGSC DATUM: 0.124	PWGSC DATUM: 0.000	PWGSC DATUM: -1.747
CHART DATUM: 0.000	CHART DATUM: -0.124	CHART DATUM: -1.871
E.L.W.L.: -0.500	E.L.W.L.: -0.624	E.L.W.L.: -2.371

DATUM CONVERSION

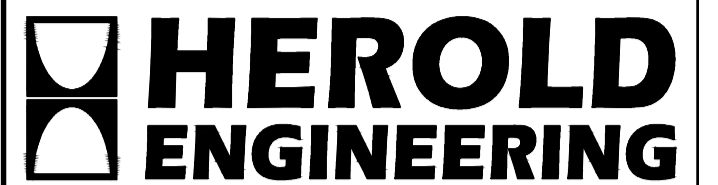
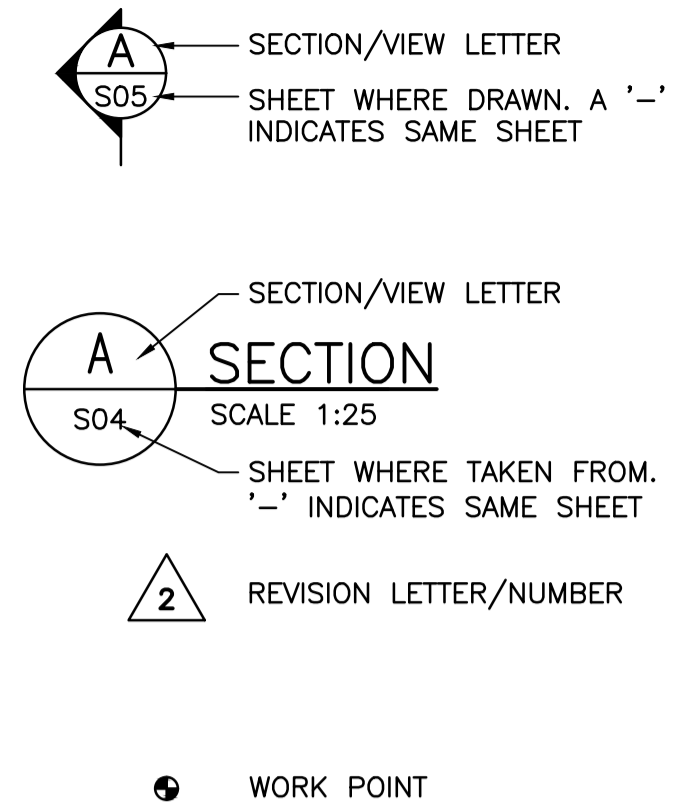
SCALE N.T.S.

SYMBOLS AND ABBREVIATIONS

- CL. - CLEAR
- CL. - CENTRELINE
- CJ. - CONSTRUCTION JOINT
- CP. - COMPLETE PENETRATION
- CRB - CONCRETE ROAD BARRIER
- C/W - COMPLETE WITH
- DWG. - DRAWING
- E.F. - EACH FACE
- EL. - ELEVATION
- EQ. - EQUAL
- FB - FLAT BAR
- GB - GRADE BREAK
- HORZ - HORIZONTAL
- I.F. - INSIDE DIAMETER
- LLH - LONG LEG HORIZONTAL
- LLV - LONG LEG VERTICAL
- m - METRES
- mm - MILLIMETRES
- MAX. - MAXIMUM
- MIN. - MINIMUM
- N.T.S. - NOT TO SCALE
- OPP. - OPPOSITE
- PL - PLATE
- PROJ. - PROJECTION
- PWGSC - PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
- R - RADIUS
- REV. - REVISION
- SIM. - SIMILAR
- SJ - SAW CUT CONTROL JOINT
- SP. - SPACED
- S.S. OR SS - STAINLESS STEEL
- T.S. - TOP OF
- TYP. - TYPICAL
- U/S - UNDERSIDE
- U.N.O. - UNLESS NOTED OTHERWISE
- UHMWPE - ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
- VERT - VERTICAL
- WP - WORK POINT
- WS - WATER STOP

REINFORCEMENT ABBREVIATIONS

- 25M2300 - 25M STRAIGHT BAR, 2300 LONG
- 15M H1E - 15M BAR, STANDARD HOOK 1-END
- 15M H2E - 15M BAR, STANDARD HOOK 2-ENDS
- 15M H1E500 - 15M BAR, 500 LONG HOOK 1-END
- 20MSS - 20M STAINLESS STEEL BAR



HEL JOB FILE: 3191-017



Revision/	Description/Description	Date/Date
D	ADDENDUM	2021.03.23
C	TENDER	2021.01.07
B	99% REVIEW	2020.07.10
A	75% REVIEW	2020.05.20

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet
**ESQUIMALT GRAVING DOCK
825 ADMIRALS ROAD, VICTORIA, BC**

**ESQUIMALT GRAVING DOCK
EAST END EXTENSION AND
SECTION 3 DOCK FLOOR
AND WALL REFURBISHMENT**

Consultant Signature Only

Designed by/Concept par
KU / MGCS

Drawn by/Dessiné par
JJMC

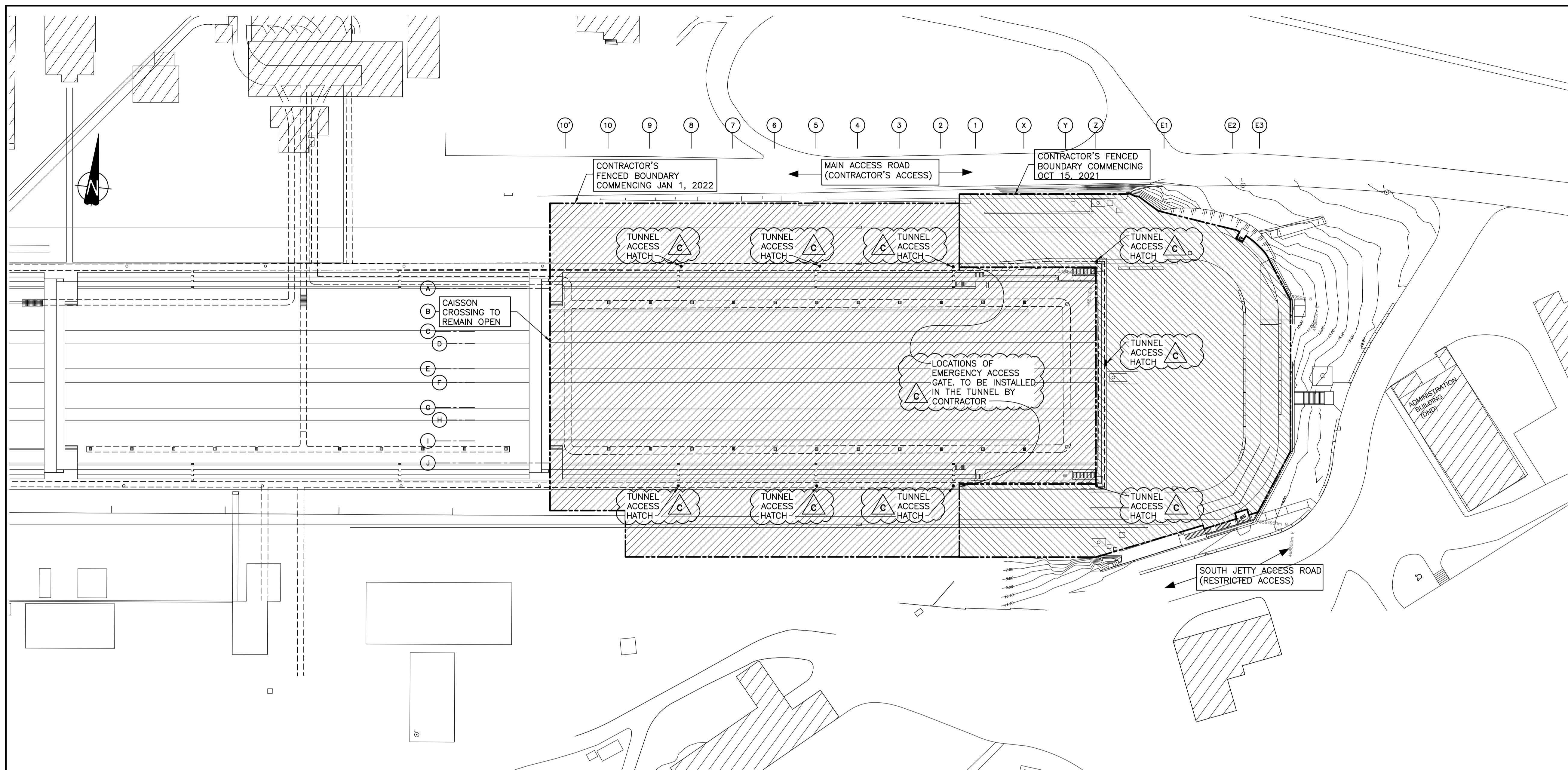
PWGSC Project Manager/Administrateur de Projets TPSGC
EUGENE YEUNG

Regional Manager, Architectural and Engineering Services
Regional Manager, Environmental Services
PREETIPAL PAUL

Drawing title/Titre du dessin
GENERAL NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.096320.002	S001	D





PLAN — EAST END EXTENSION WORK AREAS
SCALE 1:500



Revision/	Description/Description	Date/Date
C	ADDENDUM	2021.03.23
B	TENDER	2021.01.07
A	90% REVIEW	2020.07.10

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

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Designed by/Concept par
KU / MGCS

Drawn by/Dessiné par
GLG

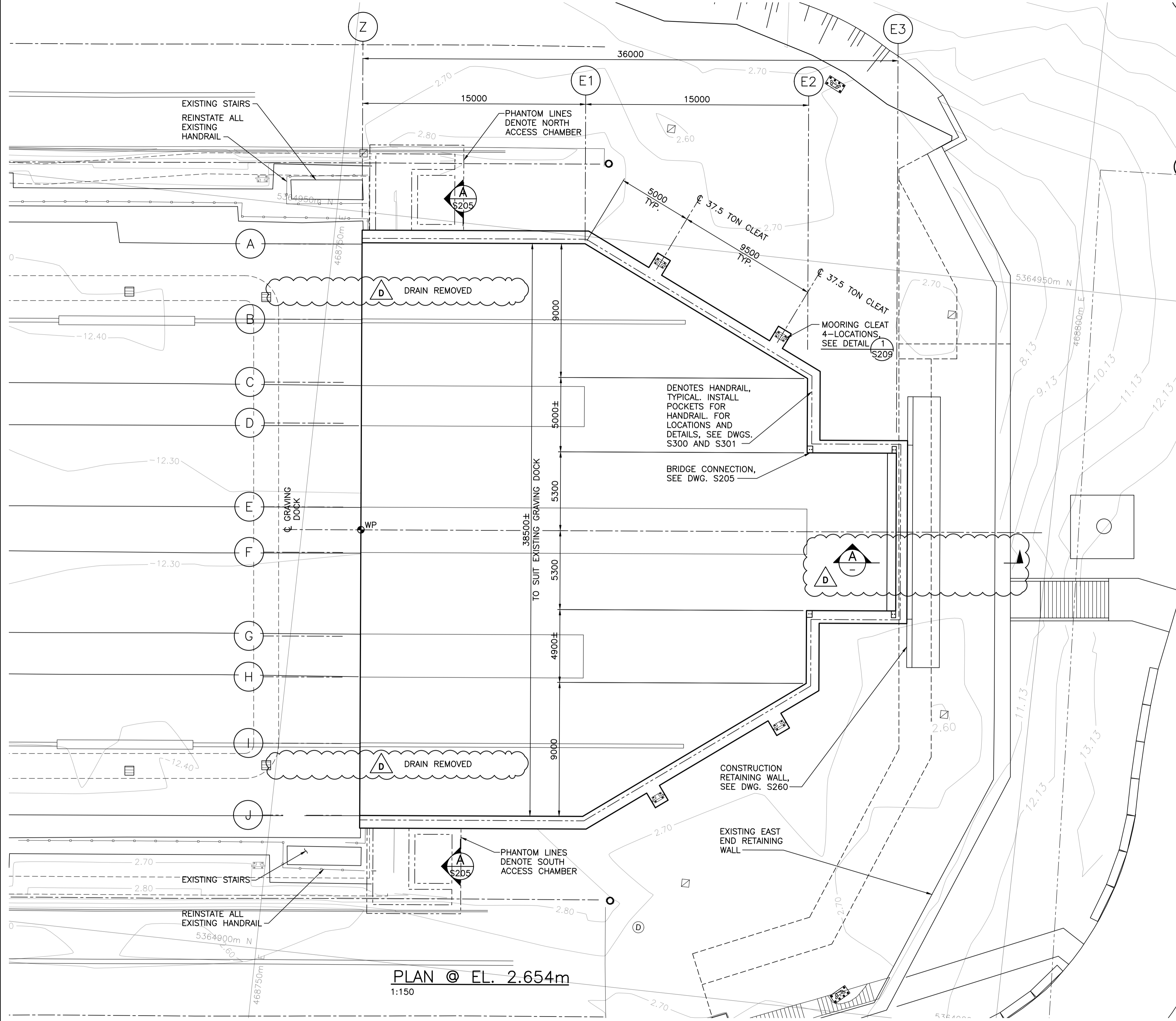
PWGSC Project Manager/Administrateur de Projets TPSCG
EUGENE YEUNG

Regional Manager, Architectural and Engineering Services
Regional Manager, Environmental Services
PREETIPAL PAUL

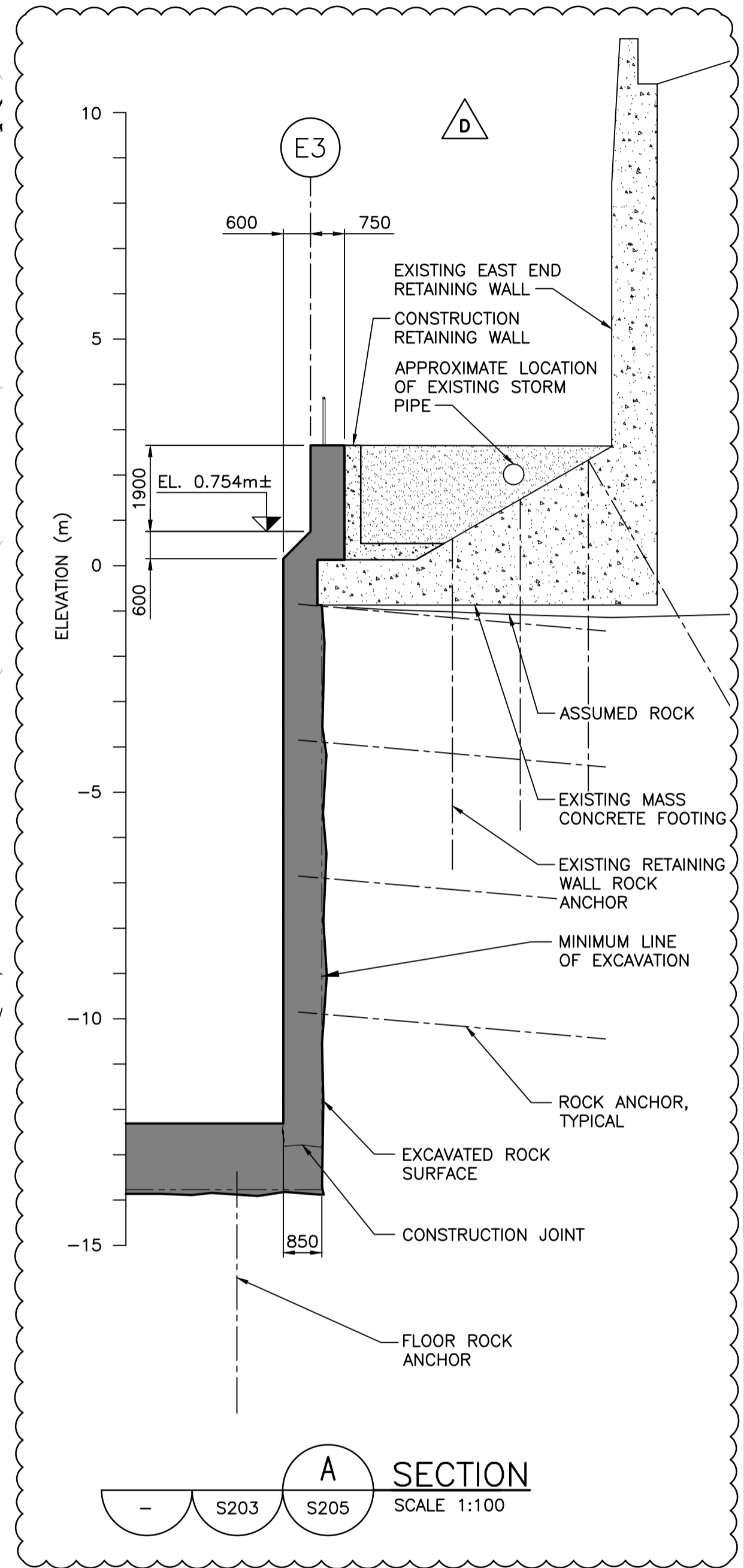
Drawing title/Titre du dessin
CONTRACTORS WORK AREA

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.096320.002	S105	C

- NOTES:**
- FOR GENERAL NOTES, SEE DWG. S001.
 - CONTRACTOR TO NOTE THAT INSTALLATION AND COMMISSIONING/DECOMMISSIONING OF TEMPORARY AND PERMANENT UTILITIES WILL REQUIRE WORK TO BE PERFORMED WITHIN THE EXISTING DOCK TUNNEL LOCATED WITHIN THE DOCK WALL IMMEDIATELY BELOW THE ROADWAY ELEVATION. CURRENT ACCESS TO THE DOCK TUNNEL FOR THE CONTRACTOR IS AVAILABLE THROUGH 545MM MANHOLES AT THE NORTH EAST AND SOUTH EAST CORNERS OF THE DOCK AND A SINGLE 610mm x 1220mm HATCH AT THE EAST END OF THE DOCK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO:
 - PERFORM A SITE SPECIFIC HAZARD ASSESSMENT AND GENERATE A SITE SPECIFIC SAFETY PLAN FOR ANY WORK TO BE PERFORMED WITHIN THE DOCK TUNNEL, INCLUDING CONFINED SPACE WORK PROCEDURES, IF REQUIRED.
 - CONSTRUCT EMERGENCY ACCESS GATES RESTRICTING CONTRACTORS' NORMAL ACCESS TO PARTS OF THE TUNNEL THAT ARE WITHIN THE CONTRACTORS' WORK AREA AS OF OCT. 15, 2021.
 - COORDINATE WORK IN THE TUNNEL WITH EGD OPERATIONS TO ENSURE THAT NO WORKERS ARE PRESENT WITHIN THE TUNNEL DURING DOCKING AND UNDOCKING OPERATIONS.
 - PROVIDE ADDITIONAL ACCESS TO THE DOCK TUNNEL, IF REQUIRED, THROUGH EXCAVATIONS WITHIN THE CONTRACTORS WORK AREA.
 - MAKE GOOD ANY MODIFICATIONS OR ALTERATIONS TO THE TUNNEL THAT ARE NOT WITHIN THE PROJECT SCOPE AT THE COMPLETION OF THE PROJECT. CONTRACTORS PLANS FOR REMEDIATION TO BE REVIEWED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.



PLAN @ EL. 2.654m
1:150



NOTES:
1. FOR GENERAL NOTES, SEE DWG. S001.



Revision/	Description/Description	Date/Date
D	ADDENDUM	2021.03.23
C	TENDER	2021.01.07
B	90% REVIEW	2020.07.10
A	75% REVIEW	2020.05.20

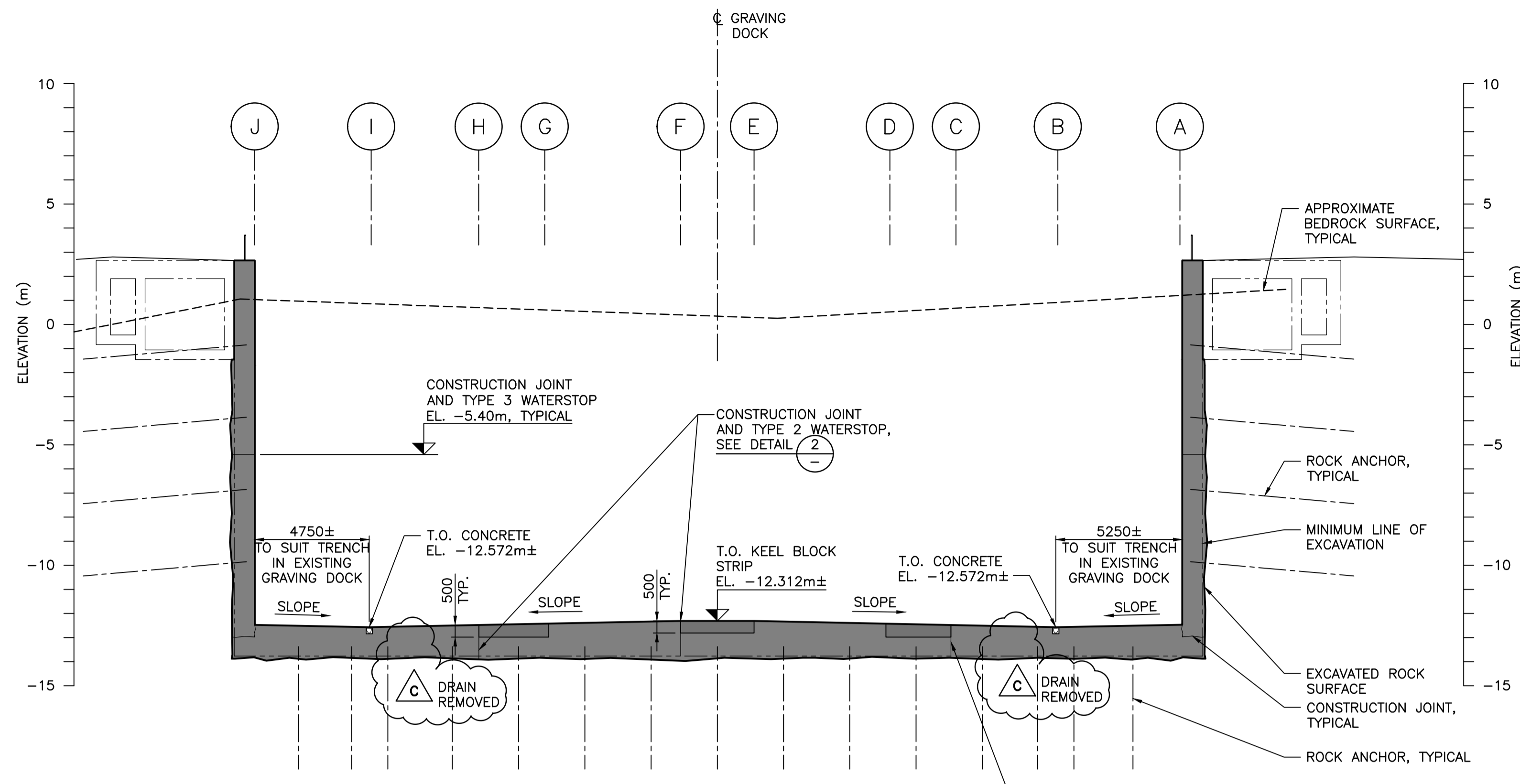
Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet
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825 ADMIRALS ROAD, VICTORIA, BC**

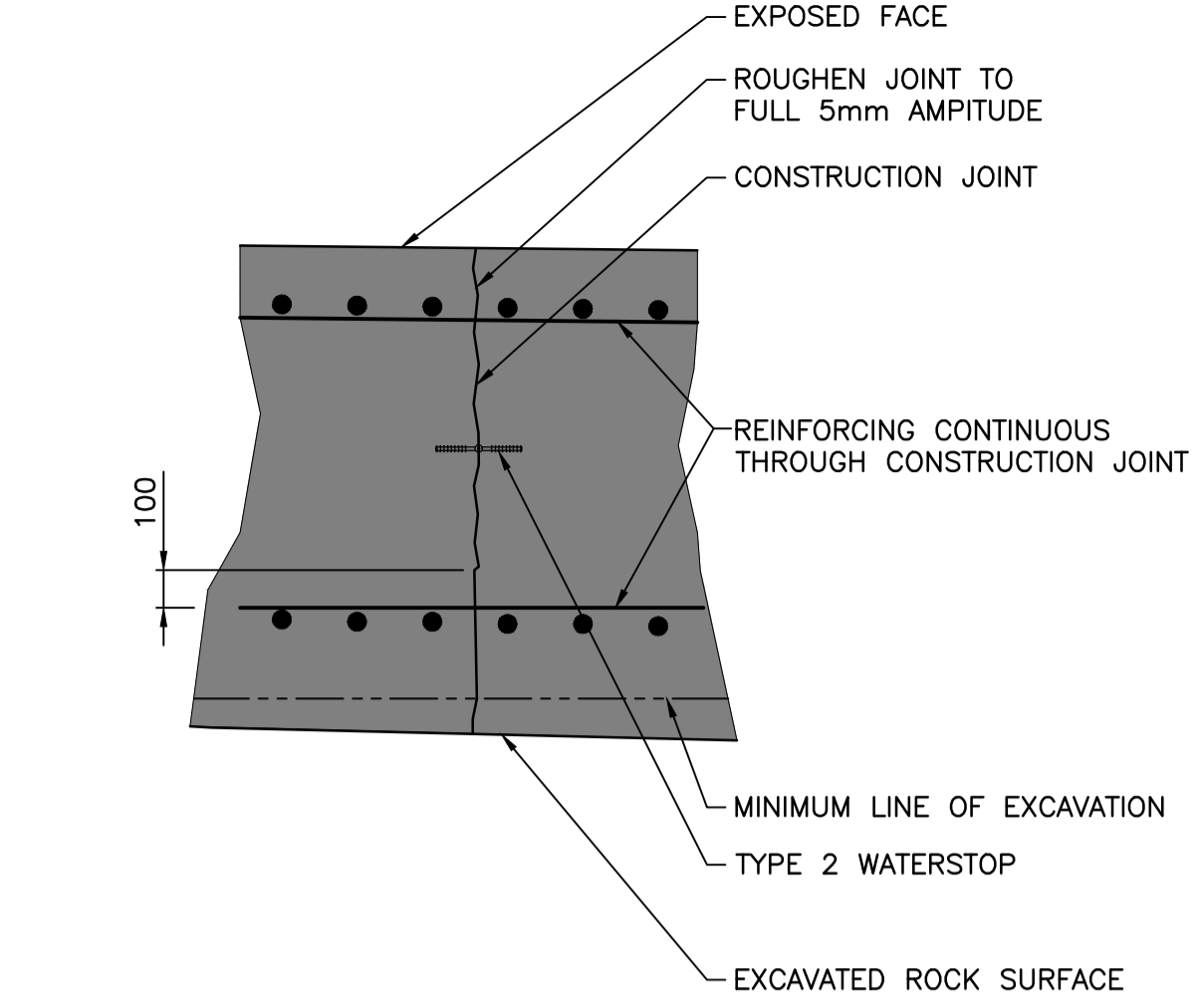
**ESQUIMALT GRAVING DOCK
EAST END EXTENSION AND
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CONCRETE OUTLINE - SHEET 2

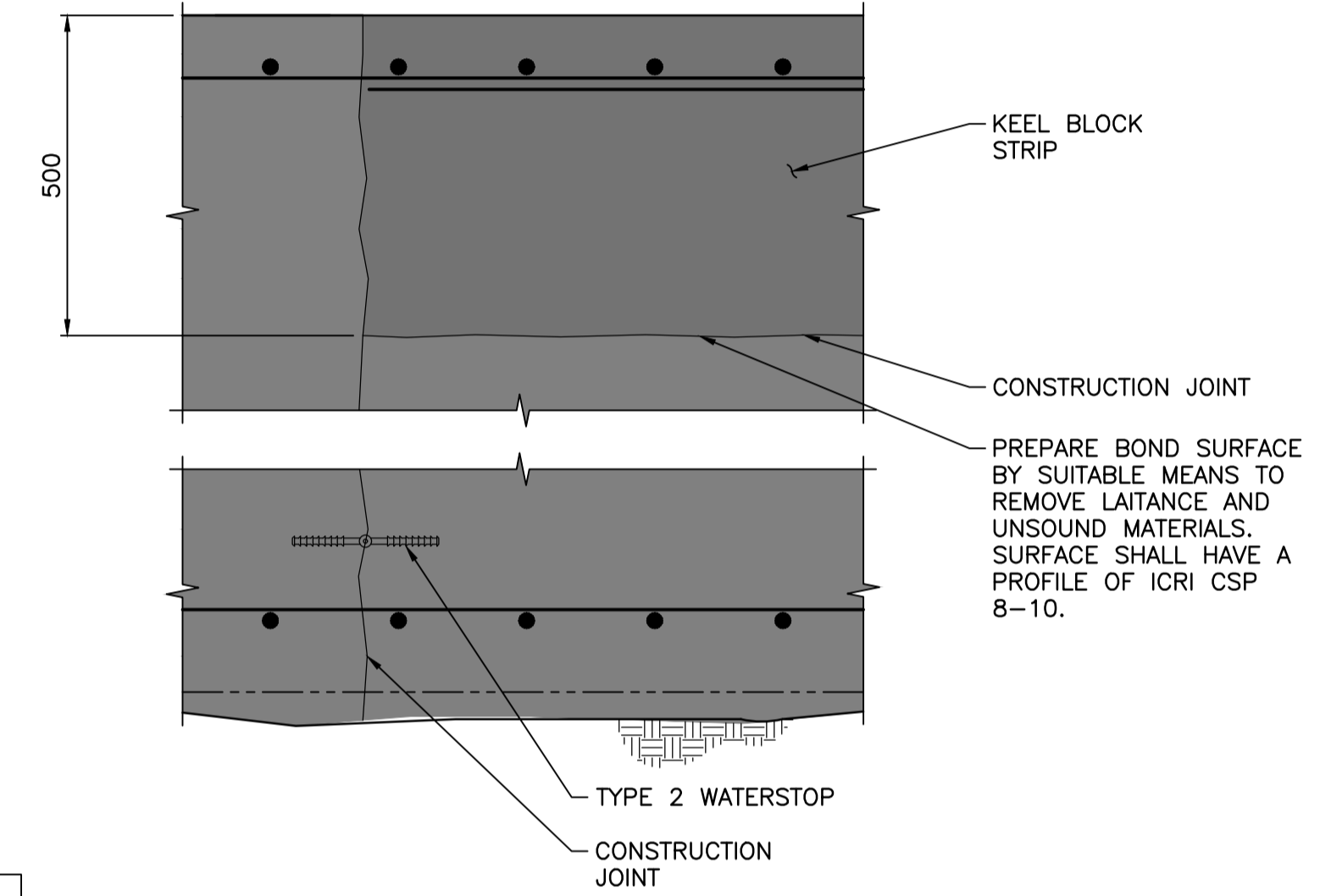
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R.096320.002	S204	D



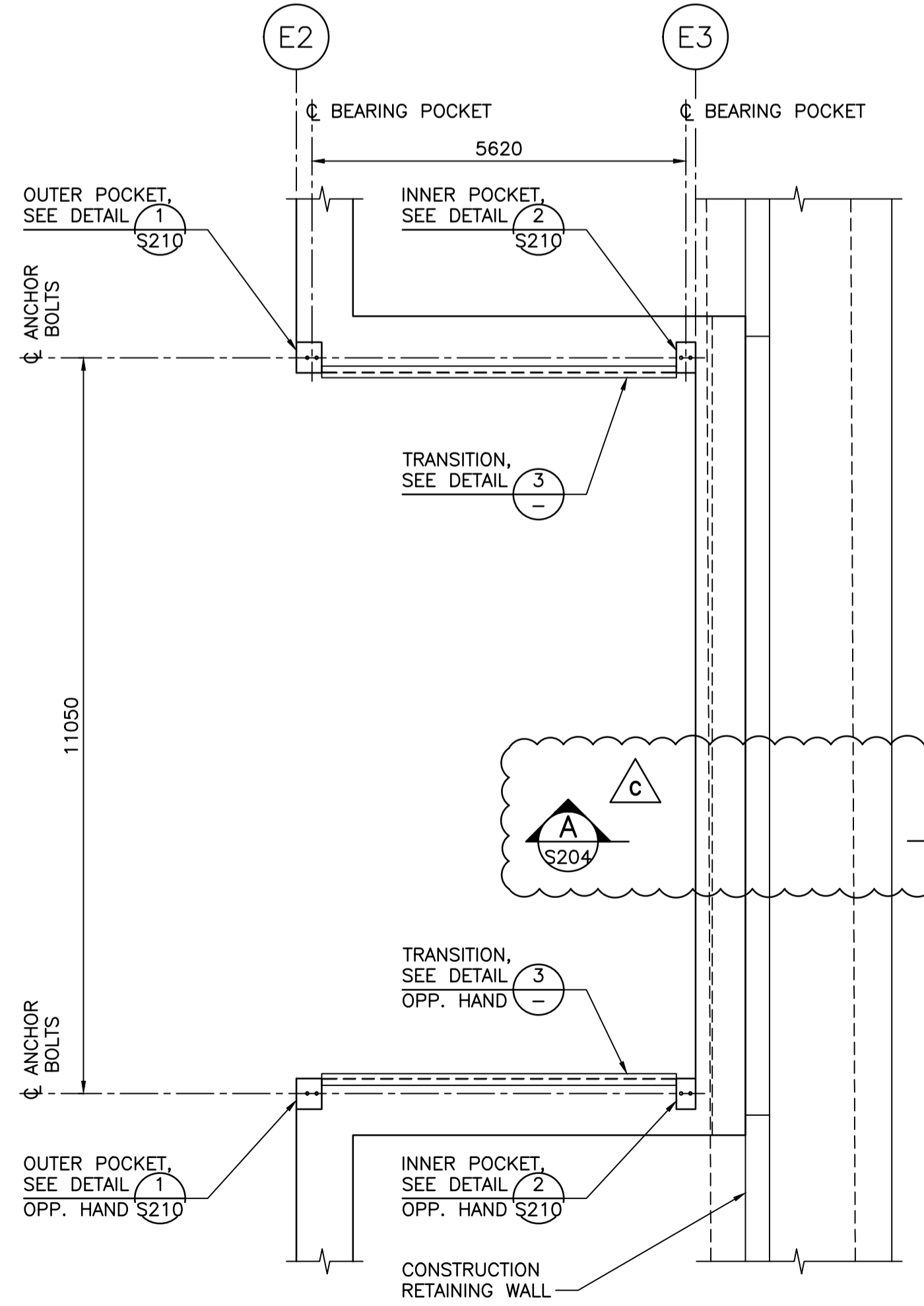
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NOTE: REINFORCEMENT NOT SHOWN.



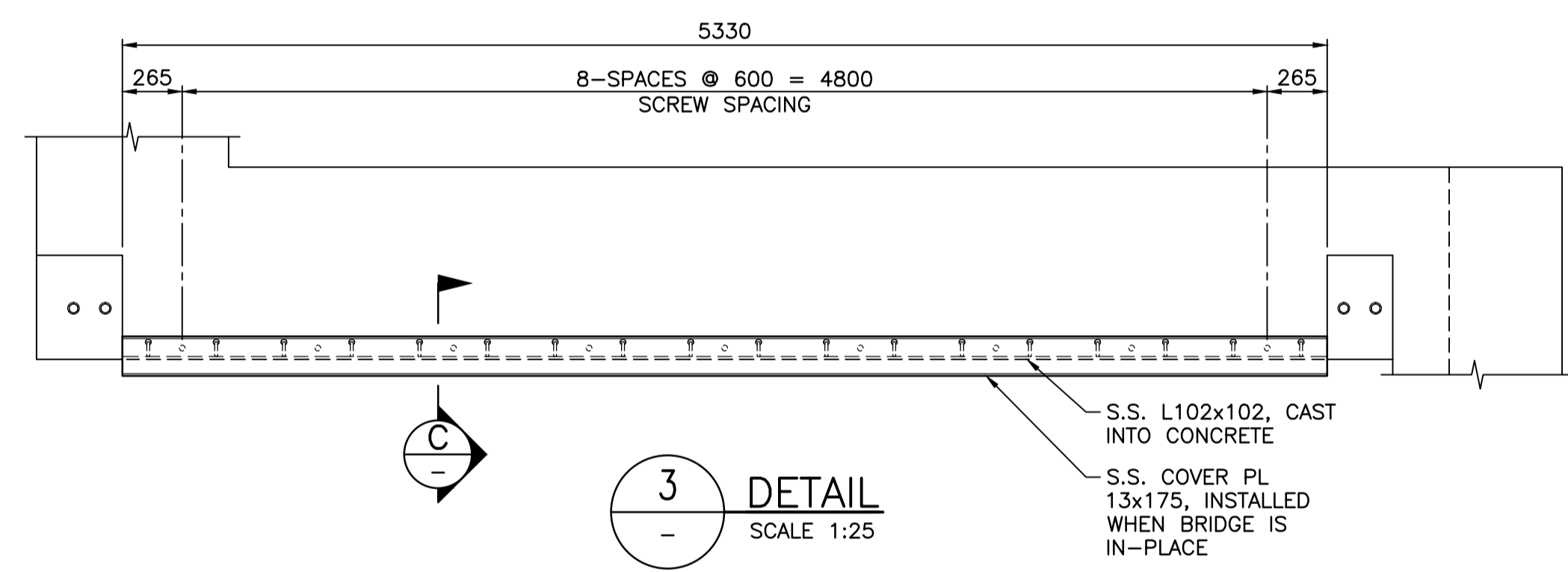
DETAIL - TYPICAL CONSTRUCTION JOINT (CJ)
SCALE 1:20



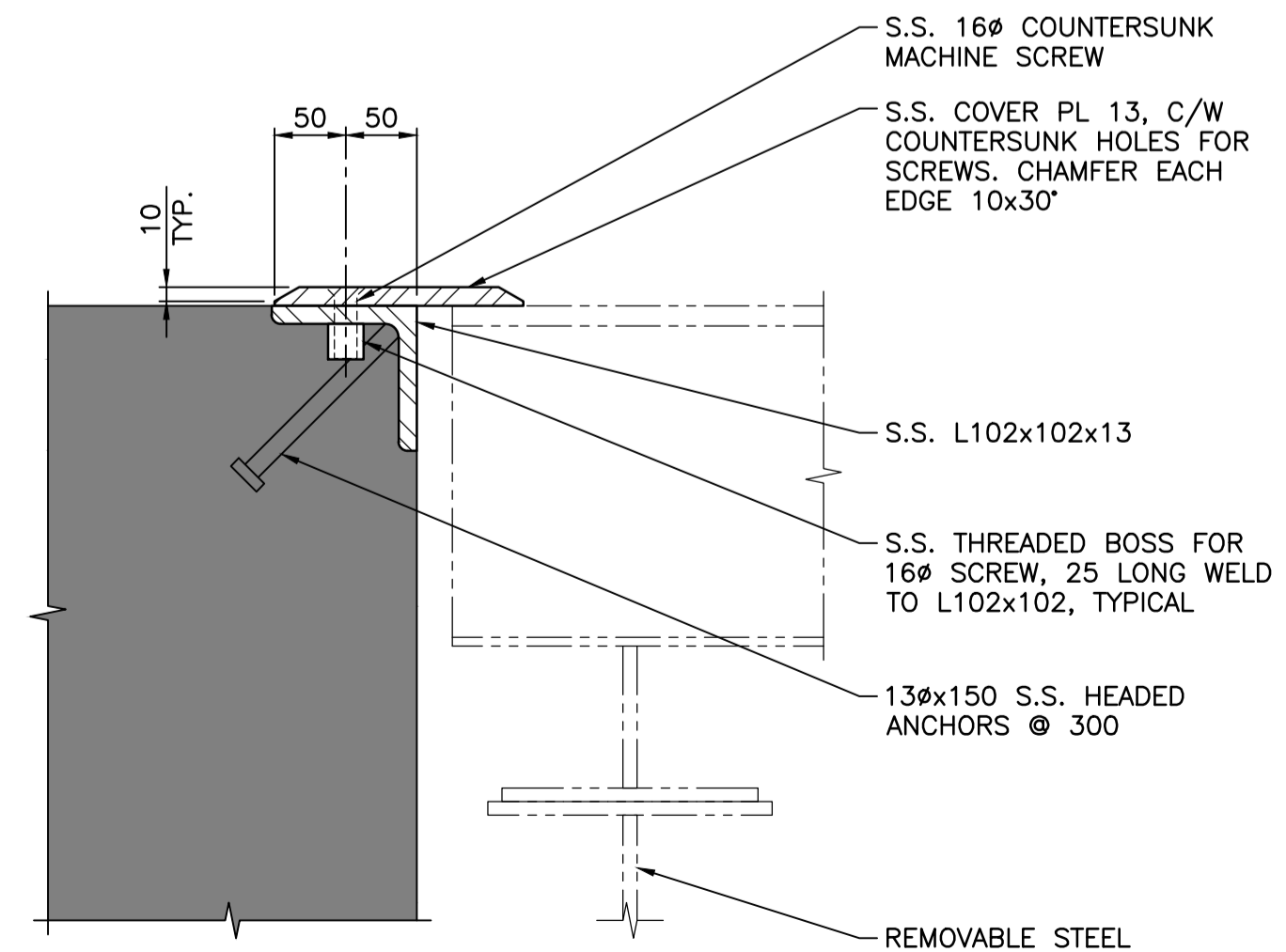
2 DETAIL
SCALE 1:10



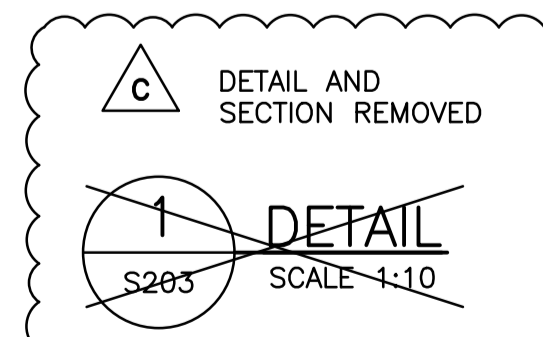
PLAN - BRIDGE CONNECTION
SCALE 1:75



3 DETAIL
SCALE 1:25



C SECTION
SCALE 1:5



1 DETAIL
SCALE 1:10



B SECTION
SCALE 1:10

NOTES:
1. FOR GENERAL NOTES SEE DWG. S001.

Revision/	Description/Description	Date/Date
C	ADDENDUM	2021.03.23
B	TENDER	2021.01.07
A	99% REVIEW	2020.07.10

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet
ESQUIMALT GRAVING DOCK 825 ADMIRALS ROAD, VICTORIA, BC

ESQUIMALT GRAVING DOCK EAST END EXTENSION AND SECTION 3 DOCK FLOOR AND WALL REFURBISHMENT

Consultant Signature Only
Designed by/Concept par: KU / MGCS
Drawn by/Dessiné par: JJMC
PWGSC Project Manager/Administrateur de Projets TPSGC: EUGENE YEUNG
Regional Manager, Architectural and Engineering Services / Régional Manager, Environmental Services: PREETIPAL PAUL

Drawing title/Titre du dessin
CONCRETE OUTLINE - SHEET 3

Project No./No. du projet R.096320.002	Sheet/Feuille S205	Revision no./Loi Révision no. C
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Revision/	Description/Description	Date/Date
D	ADDENDUM	2021.03.23
C	TENDER	2021.01.07
B	90% REVIEW	2020.07.10
A	75% REVIEW	2020.05.20

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet
**ESQUIMALT GRAVING DOCK
825 ADMIRALS ROAD, VICTORIA, BC**

**ESQUIMALT GRAVING DOCK
EAST END EXTENSION AND
SECTION 3 DOCK FLOOR
AND WALL REFURBISHMENT**

Consultant Signature Only

Designed by/Concept par
KU / MGCS

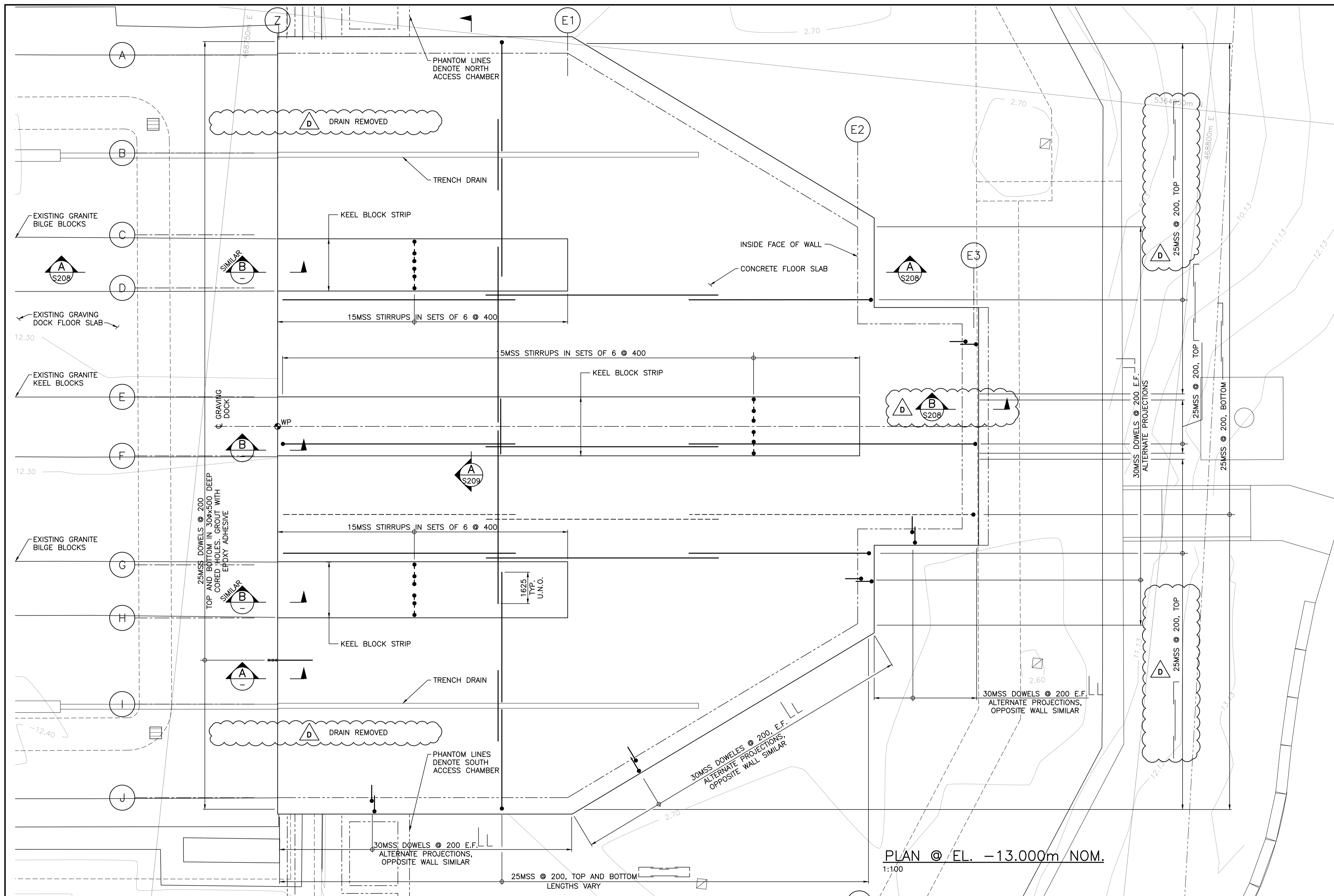
Drawn by/Designé par
JJMC

PWGC Project Manager/Administrateur de Projets TPSC
EUGENE YEUNG

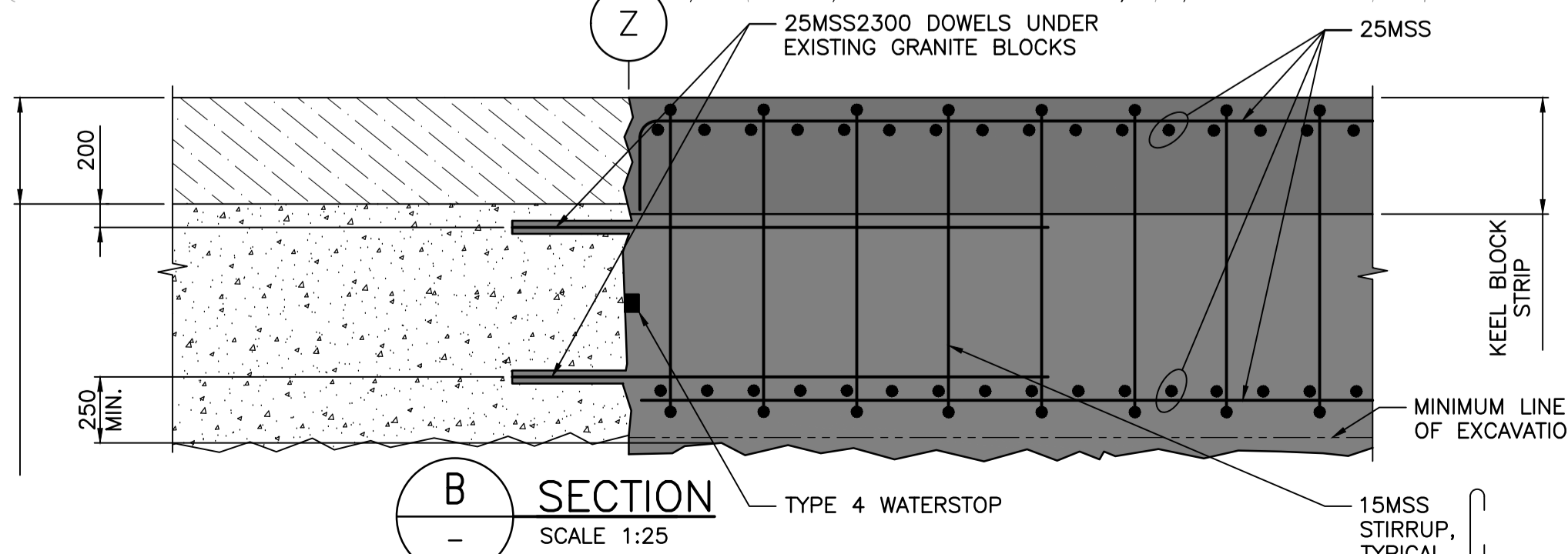
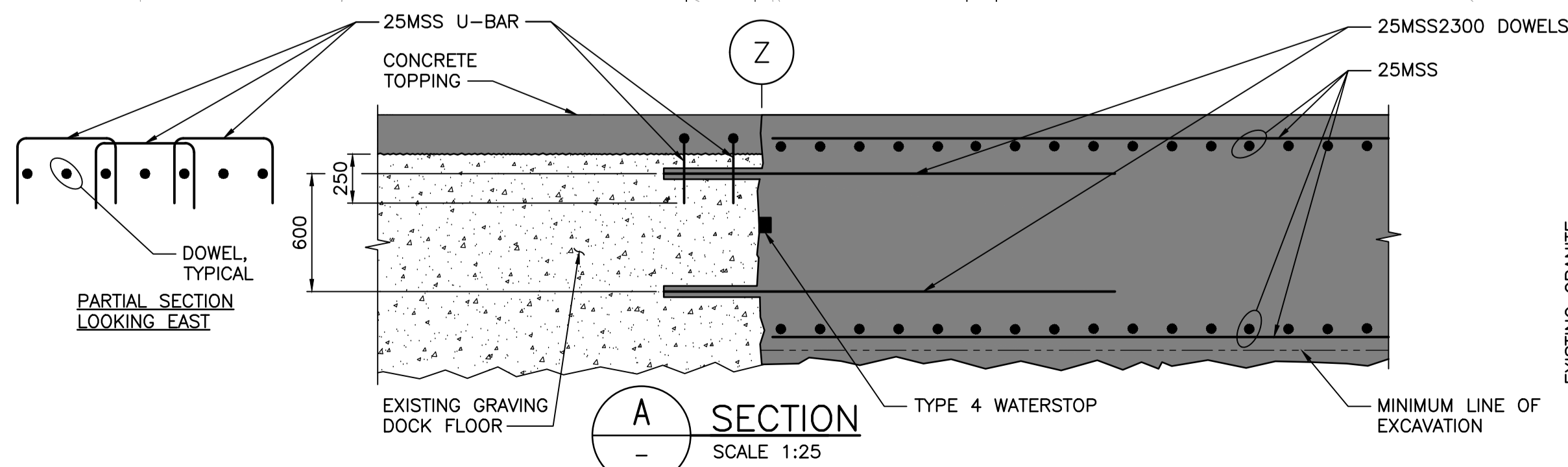
Regional Manager, Architectural and Engineering Services
Regional Manager, Environmental Services
PREETIPAL FAUL

Drawing title/Titre du dessin
CONCRETE REINFORCEMENT - SHEET 1

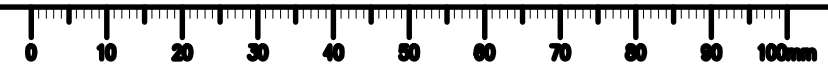
Project No./No. du projet R.096320.002	Sheet/Feuille S206	Revision no./Loi Révision no. D
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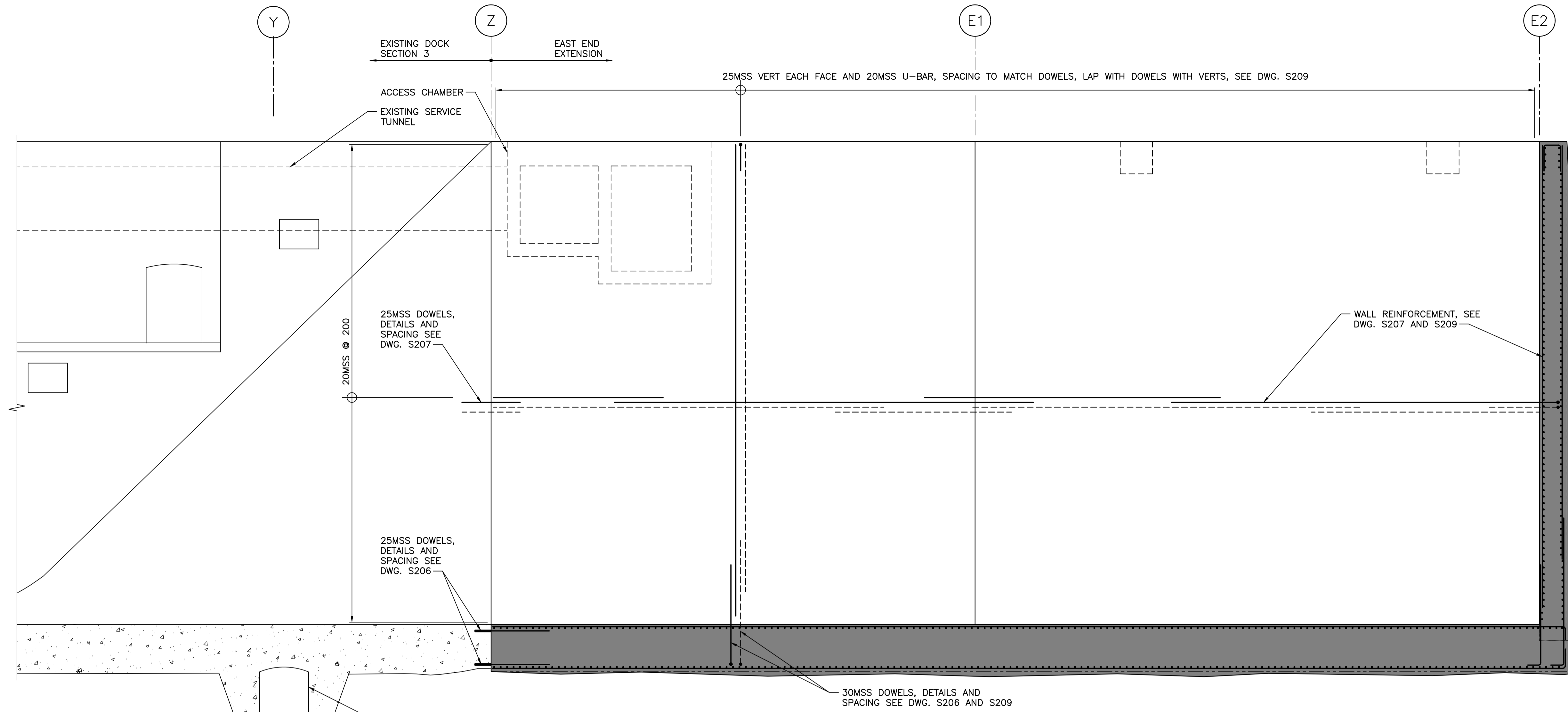


PLAN @ EL. -13.000m NOM.
1:100



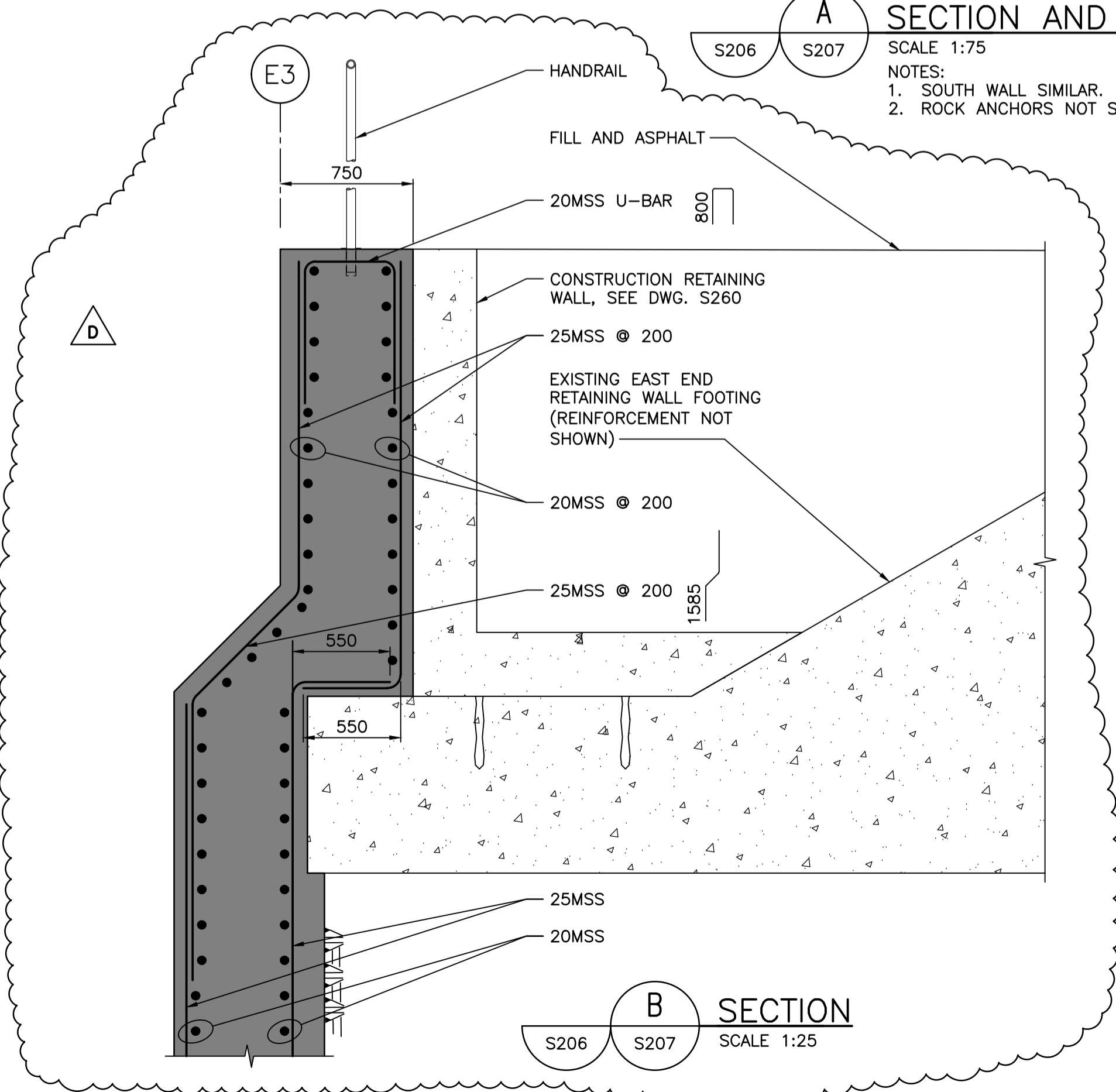
NOTES:
1. FOR GENERAL NOTES SEE DWG. S001.





A SECTION AND VIEW OF NORTH WALL

SCALE 1:75
 NOTES:
 1. SOUTH WALL SIMILAR.
 2. ROCK ANCHORS NOT SHOWN FOR CLARITY.



B SECTION

SCALE 1:25

Revision/	Description/Description	Date/Date
D	ADDENDUM	2021.03.23
C	TENDER	2021.01.07
B	90% REVIEW	2020.07.10
A	75% REVIEW	2020.05.20

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet
**ESQUIMALT GRAVING DOCK
 825 ADMIRALS ROAD, VICTORIA, BC**

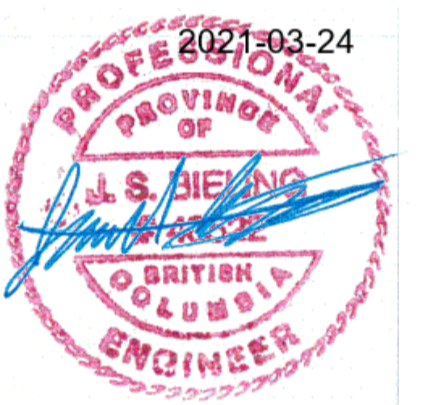
**ESQUIMALT GRAVING DOCK
 EAST END EXTENSION AND
 SECTION 3 DOCK FLOOR
 AND WALL REFURBISHMENT**

Consultant Signature Only
 Designed by/Concept par
 KU / MGCS
 Drawn by/Dessiné par
 JJMC
 PWGSC Project Manager/Administrateur de Projets TPSSC
 EUGENE YEUNG
 Regional Manager, Architectural and Engineering Services
 Regional Manager, Environmental Services
 PREETIPAL PAUL

Drawing title/Titre du dessin
**CONCRETE REINFORCEMENT -
 SHEET 3**

Project No./No. du projet R.096320.002	Sheet/Feuille S208	Revision no./ La Révision no. D
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NOTES:
 1. FOR GENERAL NOTES, SEE DWG. S001.



ELECTRICAL SYMBOL LEGEND	
ABBREVIATIONS	
FIA	FIRE ALARM
SSM	STAND SINGLE MODE OPTICAL FIBER
SMM	STRAND MULTI MODE OPTICAL FIBER
WP	DENOTES WEATHER PROOF DEVICE
POWER	
⊕	JUNCTION BOX
Ⓜ	PULLBOX, NEW OR EXISTING. NUMBERS REFER TO EGD EXISTING OR UPDATED NUMBERING SCHEME. E LABELS ARE USED WHEN PULLBOX IS NOT NAMED
⚡	MECHANICAL EQUIPMENT CONNECTION
⚡	PILASTER
⚡	EQUIPMENT CONTROL PANEL
LINE TYPES	
-----	EXISTING DEVICES AND INFRASTRUCTURE
---	NEW UNDERGROUND CONDUITS OR DUCT BANKS
- - -	NEW FLEXIBLE ARMORED CABLE CONNECTIONS
---	NEW CABLE/CONDUIT, TYPE NOT SPECIFIED

REFER TO E200 FOR SITE CONNECTION DETAILS

- EXISTING DUCT BANK CABLES
- 50C-(CAPSTAN-CENTRE)
- 50C-(CAPSTAN #1S)
- 50C-(CAPSTAN #2S)
- 50C-(CAPSTAN #3S)
- 50C-(CAPSTAN #4S)
- 50C-F/A PULL STATION

REFER TO E200 FOR SITE CONNECTION DETAILS

- EXISTING TUNNEL MOUNTED CABLES:
- 2#14 TECK F/A CONNECTIONS, EAST END CENTER
- 2#14 TECK F/A CONNECTIONS, EAST END CENTER
- 2#14 TECK F/A CONNECTIONS, EAST END CENTER
- 3#12 TECK TUNNEL LIGHTING
- 100 PAIR CAT#3 DEMARC TO OLD SSS
- 100 PAIR CAT#3 DEMARC TO SSSR
- 125MM FIBER FROM VSL OFFICES TO DOCK END
- 245MM BETWEEN SSS WATER METERS AND PH PATCH PANELS
- 2#18 TECK GRAY - ABANDONED F/A CABLES
- 2#18 TECK GRAY - TECK GRAY SCADA RS485 WATER METER LOOP
- 2#12 TECK FROM PH TO EAST END EMERGENCY STROBE
- 245MM FIBER FROM DEMARC TO OLD SSS
- 125MM FIBER PUMPHOUSE TO OLD SSS P/A & CAMERAS

EXISTING TUNNEL MOUNTED SERVICES TO BE DEMOLISHED. EXISTING COMMUNICATION JB AND RECS ARE DISCONNECTED, AND NEED TO BE REMOVED.

EXISTING E/A AND F/A PULL STATION AND JUNCTION BOXES ARE INS SERVICE AND WILL NEED TO BE REMOVED FROM SERVICE AND THE F/A AND E/A SYSTEMS UPDATED TO ENSURE SYSTEM OPERATES CORRECTLY.

3C#10 & 10C#16 - CAPSTAN-CENTRE TO BE DEMOLISHED DURING DOC EXTENSION AND NOT REBUILT. EXISTING FEEDERS ARE TO BE REMOVED AND MCC CELL TO BE MARKED AS SPARE

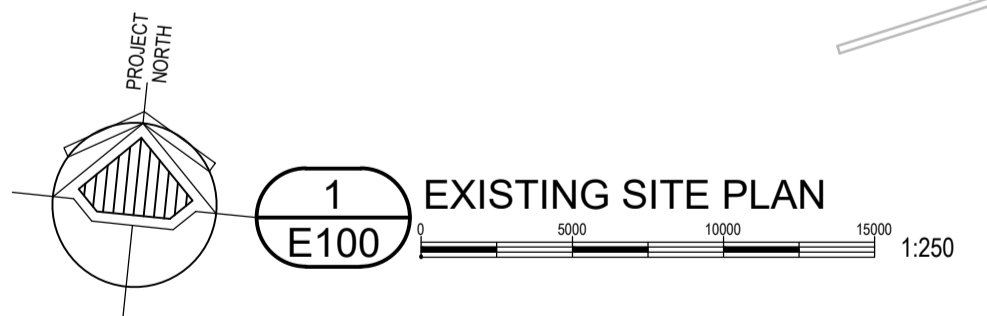
EXISTING TUNNEL LIGHT FIXTURES, TECK CABLES, SPLICE BOXES AND PYROTENEX FEEDERS TO BE REMOVED AND DEMOLISHED IN DOCK END TUNNEL ONLY

EXISTING TUNNEL MOUNTED BASKET CABLE TRAY TO BE DISMOUNTED AND TURNED OVER TO EGD FOR OTHER USES

REFER TO E200 FOR SITE CONNECTION DETAILS

- 50C-(CAPSTAN #3S)
- 50C-(CAPSTAN #2S)
- 50C-(CAPSTAN #1S)

REFER TO E200 FOR SITE CONNECTION DETAILS



1 EXISTING SITE PLAN
E100

GENERAL NOTES

- ALL CABLES SHOWN AS EXISTING ON THIS SHEET ARE TO BE DISCONNECTED AND DEMOLISHED UNLESS OTHERWISE INDICATED. ALL COSTS FOR DISMOUNTING, REMOVAL AND DISPOSAL OF ALL CABLES IS TO BE INCLUDED IN BASE BID.
- ALL REPLACEMENT CABLES ARE TO BE INSTALLED IN NEW END OF DOCK DUCT BANK AND PULLED AND INSTALLED TO THEIR APPROPRIATE LOCATIONS AFTER EAST END EXTENSION DUCT BANK IS INSTALLED. THIS WILL PUT THE EXISTING SOUTH SIDE CAPSTANS OFFLINE UNTIL THE NEW DUCT BANK IS INSTALLED.
- DUE TO THE LENGTH OF THIS OUTAGE, ALL EXISTING COMMUNICATIONS CABLES ARE TO BE RE-ROUTED AROUND THE SOUTH JETTY SERVICE DUCT BANK WHICH IS LOCATED OUTSIDE THE PROJECT FOOTPRINT, WILL NOT BE DISTURBED BY THE DEMOLITION UNDER THIS PROJECT, AND IS ALREADY IN PLACE.
- ALL SERVICE INTERRUPTIONS ARE TO BE COORDINATED THROUGH EGD FOR ALL EGD FACILITY AND TENANT INTERRUPTIONS. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ALL THESE SHUT DOWNS, AND SHALL ASSUME ALL FINAL SWITCHOVER SHALL BE PERFORMED DURING OFF HOURS.
- EXISTING TUNNEL LIGHTING CIRCUITS AND LIGHTS INSIDE EAST END TUNNEL PORTION AFFECTED BY THE EXTENSION ARE TO BE DEMOLISHED. ALL EQUIPMENT IN TUNNEL PORTIONS NOT AFFECT BY THE WORK ARE TO REMAIN.
- EXISTING CIRCUIT FROM PH TO UPPER WALL PANEL TO BE DEMOLISHED, NEW SERVICE TO BE INSTALLED TO THIS PANEL FROM SES, COORDINATE WITH EGD FOR OUTAGE AND SERVICE SWITCHOVER.
- REFER TO SHEET E300 FOR RECONNECTION DETAILS.

Revision/Revision	Description/Description	Date/Date
4	ISSUED FOR ADDENDUM#1	04/02/21
3	ISSUED FOR TENDER	07/01/21
2	ISSUED FOR 99% REVIEW	10/07/20
1	ISSUED FOR 75% REVIEW	20/05/20

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet
**ESQUIMALT GRAVING DOCK
825 ADMIRALS ROAD, VICTORIA, BC**

**ESQUIMALT GRAVING DOCK
EAST END EXTENSION
AND SECTION 3 DOCK FLOOR
AND WALL REFURBISHMENT**

Consultant Signature Only

Designed by/Concept par
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Drawn by/Dessiné par
GINA LECLAIR, RACHEL SHIN

PWGC Project Manager/Administrateur de Projets TPSCG
EUGENE YOUNG

Regional Manager, Architectural and Engineering Services
Regional Manager, Environmental Services
PREETIPAL FAUL

Drawing title/Titre du dessin
**LEGEND, AND EXISTING
SITE PLAN NEAR DOCK END**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.096320.002	E100	3