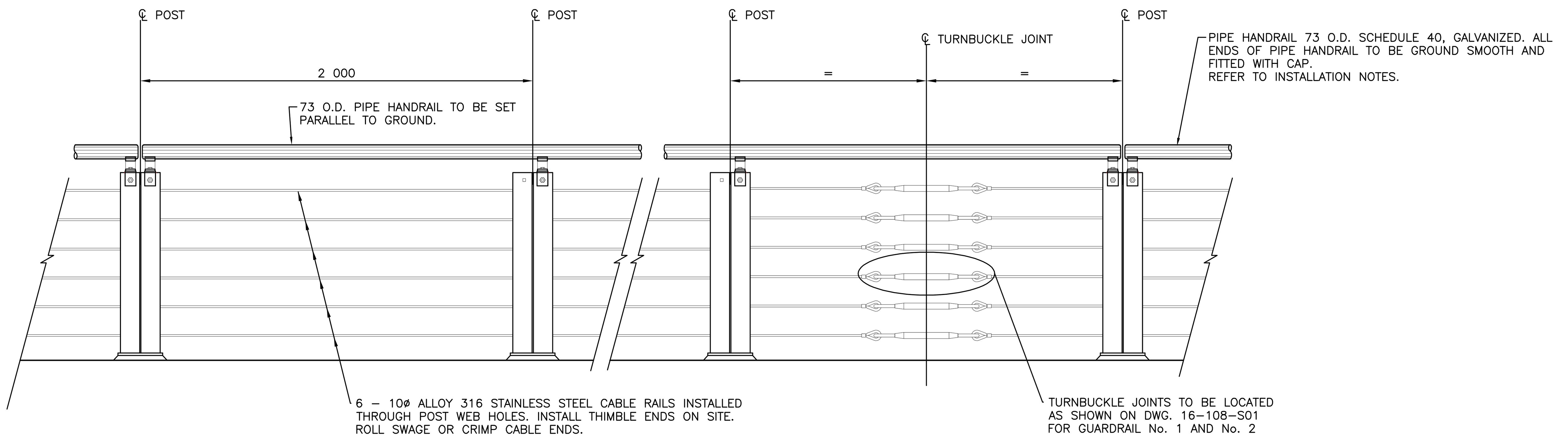
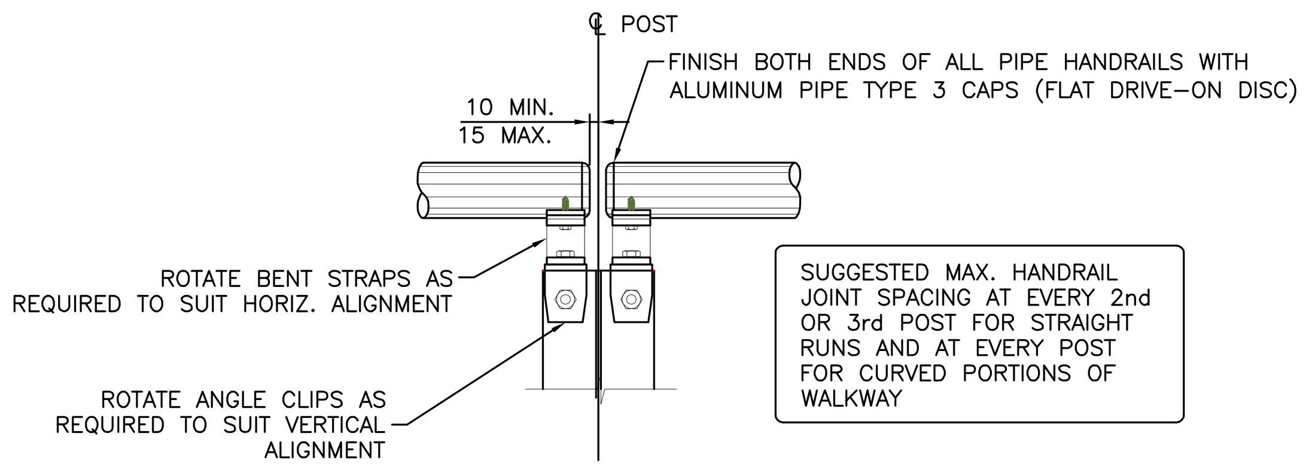


GUARDRAIL ELEVATION (INSIDE)

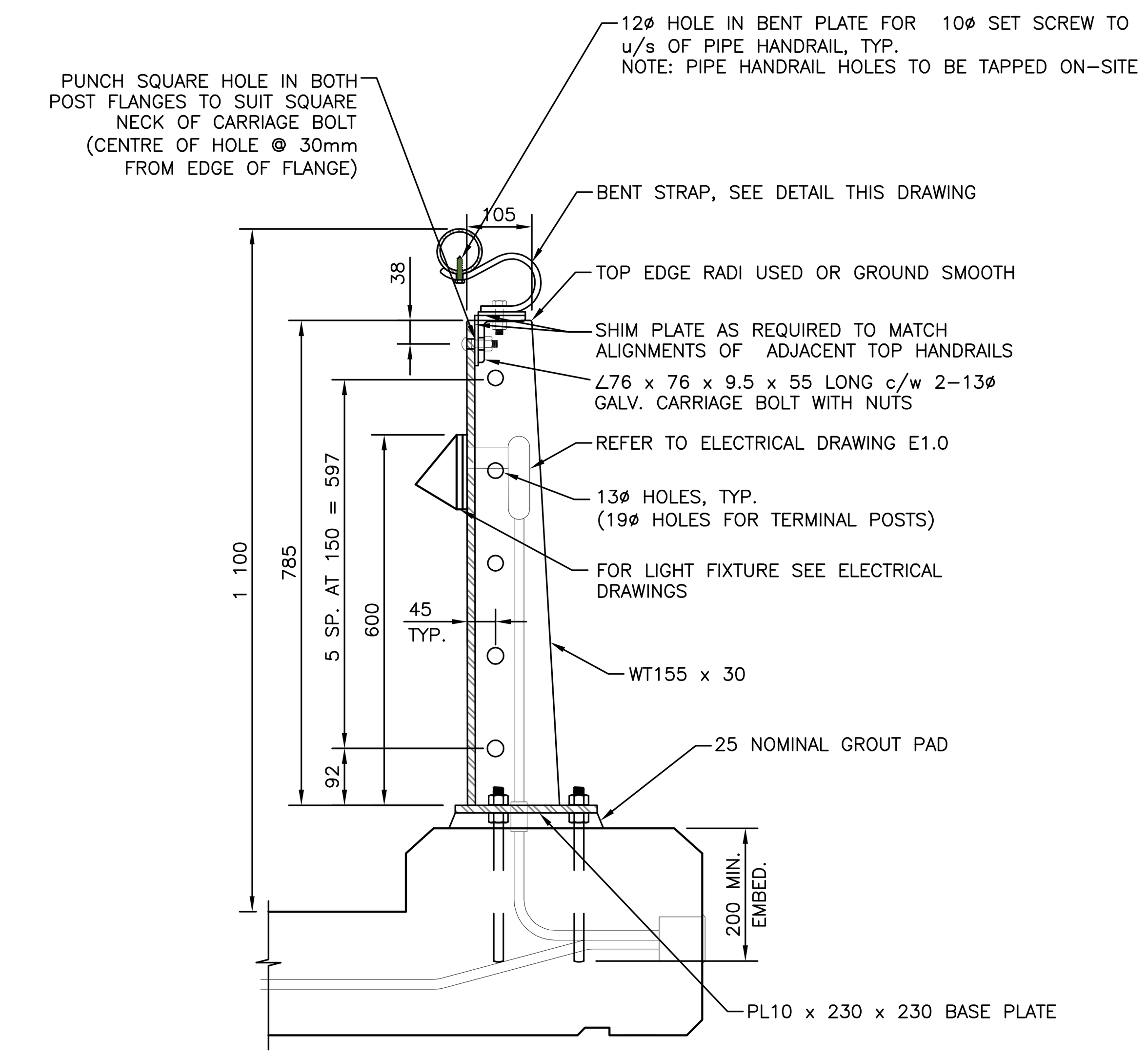
SCALE – 1 : 20



TYPICAL HANDRAIL JOINT DETAIL

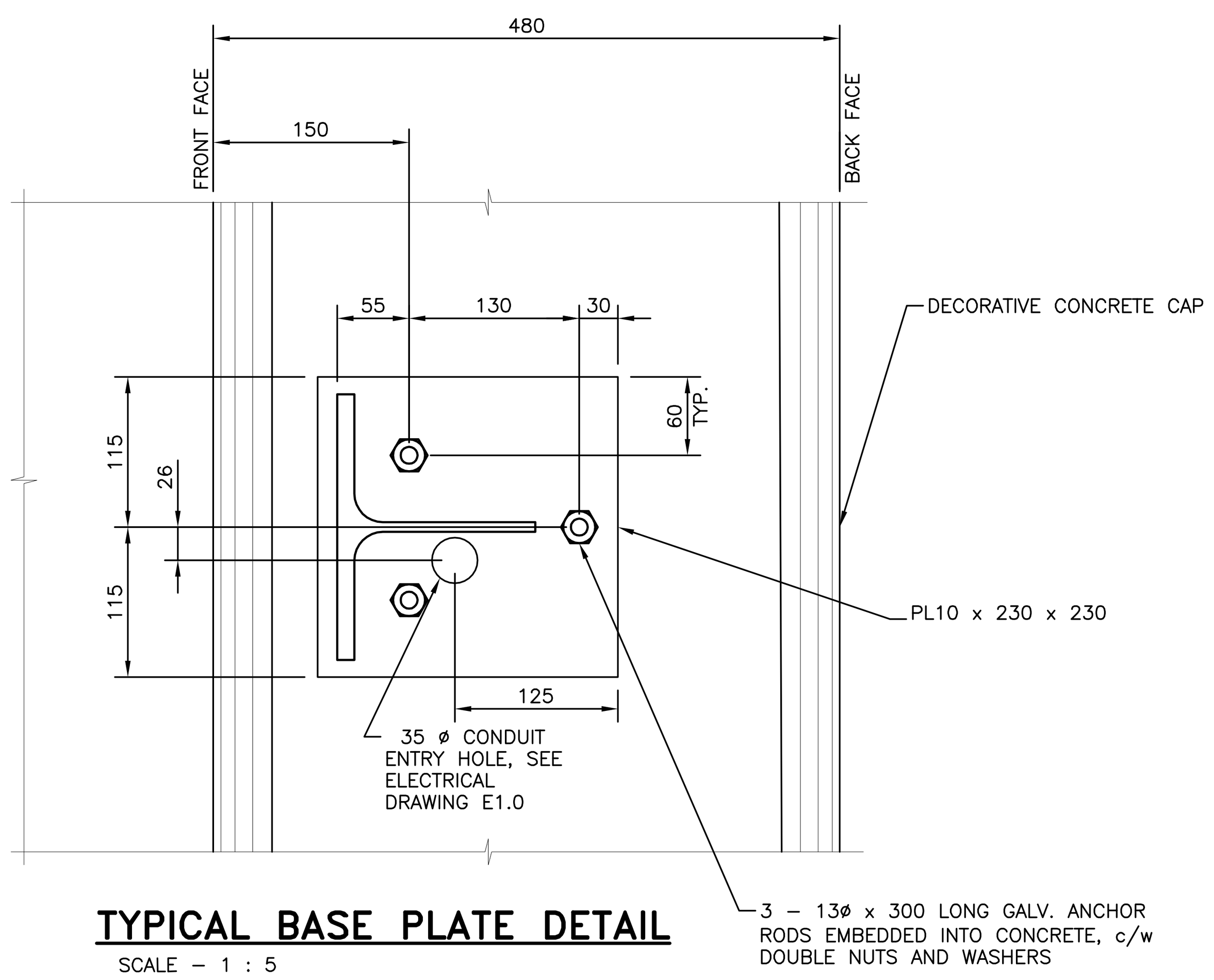
SCALE – 1 : 10

(SEE TERMINAL END POST DETAIL FOR END OF GUARDRAILS)



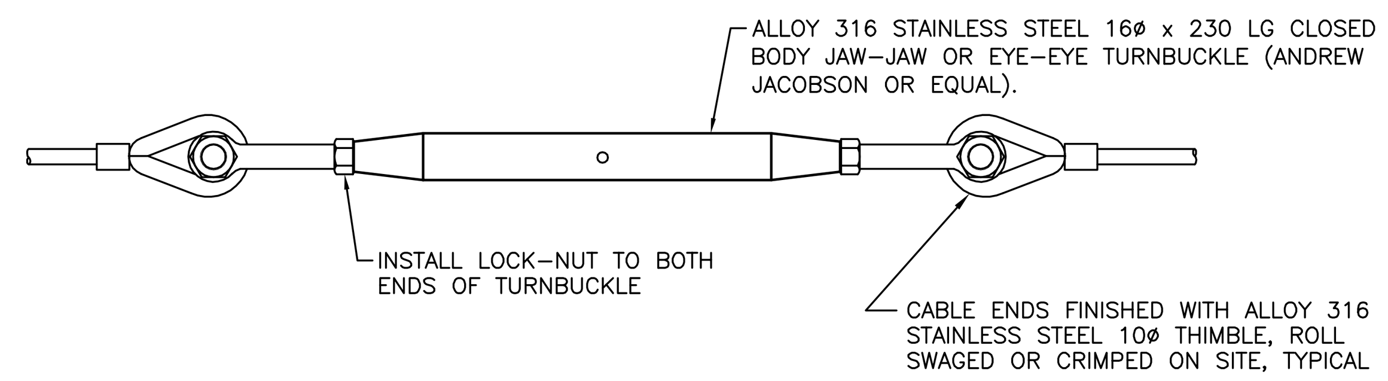
TYPICAL RAILING SECTION

SCALE – 1 : 10



TYPICAL BASE PLATE DETAIL

SCALE – 1 : 5

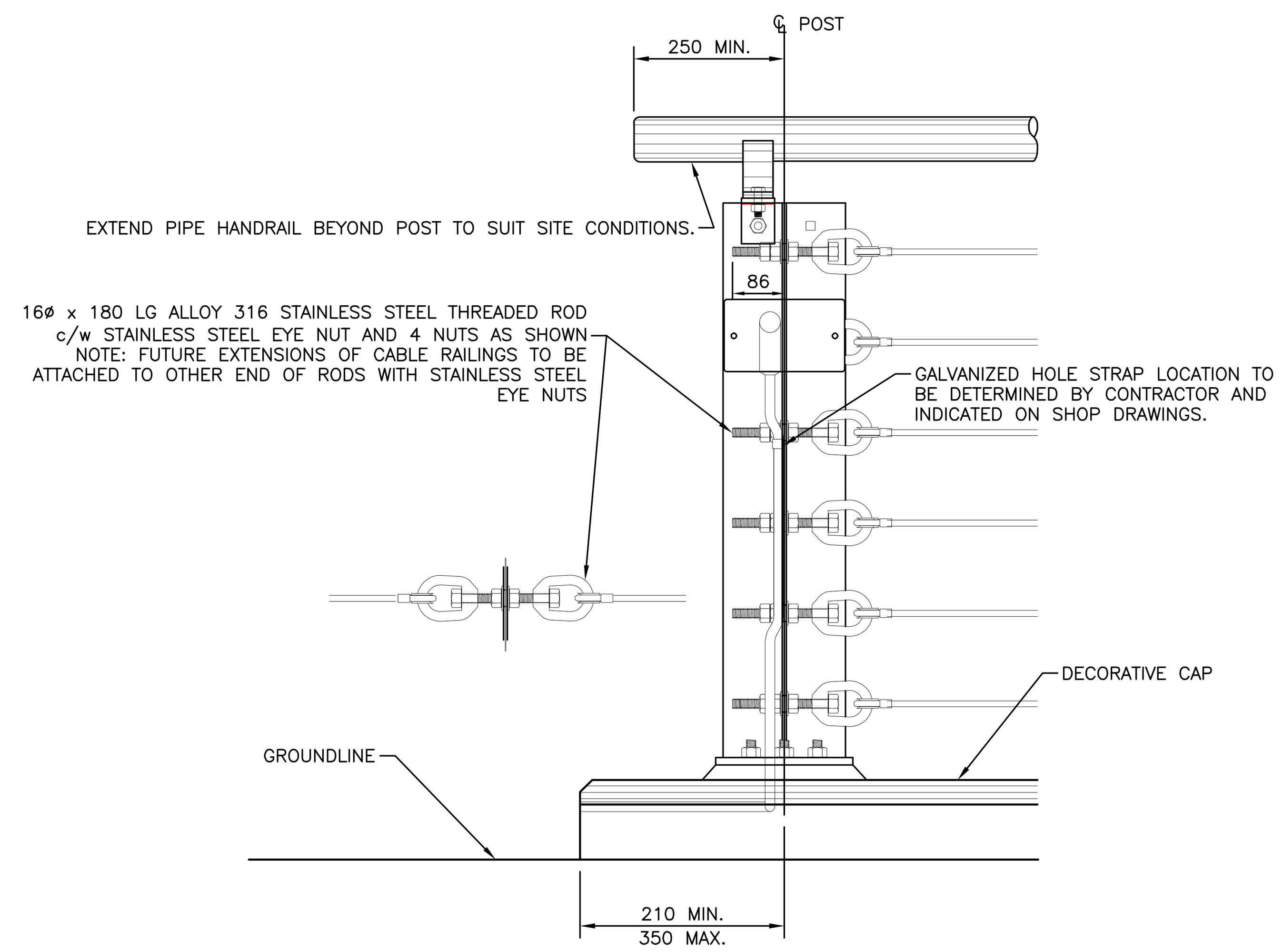


TYPICAL TURNBUCKLE DETAIL

SCALE – 1 : 5

JULY 24, 2017

ISSUED FOR TENDER



TYPICAL TERMINAL POST DETAIL

SCALE – 1 : 10

STEEL NOTES:

1. WT SECTIONS SHALL CONFORM TO CSA G40.20–13/ G40.21–13, GRADE 350W.
2. PIPE SECTION SHALL CONFROM TO ASTM A53–12
3. PLATES SHALL CONFORM TO CSA G40.20–13/ G40.21–13, GRADE 300W.
4. BOLTS SHALL CONFORM TO ASTM F3125M–15, GRADE 325 TYPE 1.
5. ANCHOR RODS SHALL CONFORM TO ASTM A307–14.
6. GALVANIZED COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123M–15 AFTER FABRICATION.
7. ALL WELDING SHALL BE UNDERTAKEN BY A COMPANY CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47 DIVISION 2 OR BETTER AND ALL THE WELDING SHALL CONFORM TO CURRENT CSA W59.
8. SHOP DRAWINGS WILL BE SUBMITTED TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION.

INSTALLATION NOTES

1. INSTALL POSTS.
2. INSTALL PIPE HANDRAIL TO POSTS.
3. INSTALL CABLE RAILS TO POST AND COMPLETE TENSION ADJUSTMENTS.
4. DRILL AND INSTALL CIRCULAR COTTER PINS THROUGH LOCK NUTS AND BOLTS TO PREVENT PUBLIC REMOVAL OR LOOSENING OF CABLES.

LEGEND

SURFACE DETAIL

STORM DRAIN MANHOLE
STORM DRAIN VENT
CATCH BASIN
DRAIN CLEANOUT
DRAIN LATERAL
SANITARY SEWER MANHOLE
SANITARY SEWER VENT
SEWER CLEANOUT
HYDRO MANHOLE
HYDRO POLE
HYDRO POLE WITH DIP
JOINT POLE
HYDRO POLE WITH LIGHT
HYDRO SERVICE BOXES
HYDRO VAULT
SEWER LATERAL
WATER VALVE ON MAIN
WATER SERVICE VALVE
WATER METER
BOULEVARD SERVICE
FIRE HYDRANT
REDUCER
LIGHT MANHOLE
LIGHT PULL BOX –SIDEWALK
TEL MANHOLE
TEL POLE
TEL POLE WITH DIP
TEL POLE WITH LIGHT
TEL SERVICE BOXES
TEL VAULT
POLE ANCHOR
HYDRO/TEL POLE TO BE RELOCATED
SIGNAL PULL BOX –SIDEWALK
LIGHT/SIGNAL PULL BOX –STREET
LIGHT POLE (STEEL)
SIGNAL POLE (STEEL)
LIGHT/SIGNAL POLE (STEEL)
CLUSTER LAMP – TYPE A
CLUSTER LAMP – TYPE B
STREET SIGN
PARKING METER
HYDRO/TEL POLE TO BE REMOVED
GAS METER
GAS VALVE
GAS SNIFFER
TEST HOLE
FENCE LINE
RETAINING WALL
TREE
ROCK OUTCROP

ENGINEERING AND PUBLIC WORKS

NO.	REVISION DESCRIPTION	DATE
3	ISSUED FOR TENDER	17–07–24
2	90% SUBMISSION – FOR REVIEW	17–06–23
1	60% SUBMISSION – FOR REVIEW	17–04–27

PASSED FOR CONSTRUCTION

APPROVED: ____________
SECTION: ____________
DATE: ____________

DRAWING TITLE	PEDESTRIAN GUARDRAIL DETAILS		
PROJECT	REESON PARK PATHWAY		
CHECKED BY: E. WONG	CITY ENGINEER: F. WORK	APPROVED BY:	SCALE: AS NOTED
DRAWN BY: M. DYER	DESIGN BY: D.NEWTON	SHT. No.: 7 OF 8	DATE: 2017–07–24

CITY OF VICTORIA

16–108–S03

DRAWING NUMBER

GENERAL NOTES:

1.0 GENERAL

1.1 DESIGN LOADS

LIVE LOAD: PEDESTRIAN: 4.0 KPa

1.2 READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTS. REPORT ANY CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.

1.3 VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

1.4 NOTIFY ENGINEER 48 HOURS IN ADVANCE FOR INSPECTION OF STRUCTURAL CONNECTIONS OR REINFORCEMENT BEFORE COVERING UP.

1.5 THESE DRAWINGS SHOW COMPLETED STRUCTURAL COMPONENTS OF THE BRIDGE. THE REQUIRED TEMPORARY BRACING AND SHORING TO PERFORM THE WORK SAFELY IS THE RESPONSIBILITY OF THE CONTRACTOR.

1.6 ENVIRONMENTAL WORK PROCEDURES, TIMING, AND SPECIAL PRECAUTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND LIMITATIONS OF THE FEDERAL DEPARTMENT OF FISHERIES AND OCEANS, AND THE PROVINCIAL MINISTRY OF ENVIRONMENT.

1.7 QUALITY ASSURANCE QUALIFICATION OF CONTRACTOR AND SUPERINTENDENT: THE CONTRACTOR SHALL BE FULLY CONVERSANT WITH ALL SAFETY PROCEDURES AND REGULATIONS RELATING TO CONSTRUCTION, AND SHALL EMPLOY STAGING AND OTHER SAFETY PROVISIONS AS SPECIFIED ELSEWHERE AND REQUIRED BY THE WORKSAFE B.C. REGULATIONS.

1.8 DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

2.0 STEEL

2.1 ALL FABRICATED AND MISCELLANEOUS METAL TO BE GRADE 350W, UNLESS NOTED OTHERWISE.

2.2 STEEL TO STEEL BOLTED CONNECTIONS SHALL UTILIZE ASTM A325 TYPE 1 BOLTS COMPLETE WITH NUTS AND WASHERS, UNLESS OTHERWISE SHOWN ON DRAWINGS.

2.3 WELDING SHALL BE IN ACCORDANCE WITH CSA W59.

2.4 6mm FILLET WELD, UNLESS NOTED OTHERWISE.

2.5 ALL STEEL SHALL BE HOT DIP GALVANIZED TO ASTM A123M OR SPRAY METALIZED TO ANSI/AWS C2.18

2.6 TOUCH UP GALVANIZED SURFACES WITH MULTIPLE COATS OF ORGANIC ZINC RICH PAINT (DOD-P-21035) TO FORM A DRY FIRM THICKNESS OF 8 MILS (IN ACCORDANCE WITH ASTM-A780).

3.0 WELDING INSPECTIONS

3.1 ALL INSPECTIONS SHALL BE PERFORMED BY A CERTIFIED WELDING INSPECTOR REGISTERED IN THE PROVINCE OF B.C. AND PAID FOR BY THE CONTRACTOR. INSPECTION PROCEDURES SHALL BE AS OUTLINED BELOW.

3.2 ALL WELDS ARE TO BE VISUALLY INSPECTED. ADDITIONALLY, AT LEAST 25% OF WELDS SHALL BE ASSESSED IN DETAIL BY NON-DESTRUCTIVE METHODS CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATING INSPECTIONS AND PROVIDING SUITABLE AND SAFE ACCESS TO THE WORK BEING INSPECTED.

3.3 ALL FAILURES IDENTIFIED BY THE TESTING AND INSPECTIONS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COST OF ADDITIONAL TESTING TO CONFIRM CONFORMANCE WITH SPECIFICATIONS SHALL BE BORNE BY THE CONTRACTOR.

3.4 SUBMIT ALL TEST REPORTS TO HEROLD ENGINEERING FOR REVIEW. DO NOT COVER MEMBERS AND THEIR CONNECTIONS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

4.0 PRECAST CONCRETE

4.1 PRECAST MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH CSA A23.4 "PRECAST CONCRETE - MATERIALS AND CONSTRUCTION".

4.2 FIRMS MUST BE CERTIFIED IN ACCORDANCE WITH CSA A25 "QUALIFICATION CODE FOR ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE PRODUCTS".

4.3 REINFORCING STEEL SHALL CONFORM TO CSA SPECIFICATION G30.18, GRADE 400. IF 400R GRADE REINFORCEMENT IS USED, IT SHALL HAVE A MINIMUM ELONGATION AT RUPTURE OF 12%, FOR A 200mm GAUGE LENGTH.

4.4 LIFTING DEVICES SATISFACTORY TO THE ENGINEER SHALL BE PROVIDED. ONLY VERTICAL LIFTS SHALL BE PERMITTED. CARE SHALL BE TAKEN TO PREVENT SUDDEN IMPACT LOAD ON LIFTED COMPONENTS.

4.5 THE CONTRACTOR SHALL ENSURE THAT ALL PRECAST MEMBERS ARE CHECKED FOR SHIPPING AND HANDLING STRESSES.

4.6 ALL PRECAST MEMBERS SHALL BE CAST A MINIMUM OF 30 DAYS PRIOR TO ERECTION OR AT AN EARLIER STAGE SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR.

4.7 PROVIDE A 20mm CHAMFER ON ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE.

4.8 MINIMUM CONCRETE COVER TO REINFORCING SHALL BE 50mm, UNLESS NOTED OTHERWISE.

4.9 PRECAST MEMBERS SHALL BE SUPPORTED ONLY AT POINTS DIRECTLY BELOW LIFTING INSERTS WHILE BEING STORED OR TRANSPORTED.

4.10 ALL PRECAST MEMBERS SHALL BE CAST A MINIMUM OF 30 DAYS PRIOR TO ERECTION OR AT AN EARLY STAGE SUBJECT TO APPROVAL BY THE ENGINEER.

5.0 CAST IN PLACE CONCRETE

5.1 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA A23.1 AND A23.2

5.2 CONCRETE MIXES SHALL CONFORM TO CAN/CSA A23.1 AND A23.2 AND SHALL HAVE THE FOLLOWING PROPERTIES:

CLASS	28 DAY STRENGTH	MAXIMUM AGGREGATE SIZE	MAXIMUM SLUMP	AIR CONTENT	EXPOSURE
ABUTMENT	30 MPa	20mm	75mm	4% TO 7%	C-1
BRIDGE DECK	35 MPa	20mm	75mm	4% TO 7%	C-1

5.3 CONCRETE TESTING SHALL BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH CAN/CSA A23.1 AND A23.2. THE MINIMUM NUMBER OF TESTS PERFORMED SHALL BE AS PER CSA A23.2. ADDITIONAL TESTING SHALL BE PERFORMED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL PROVIDE TESTING AGENCY WITH ADEQUATE NOTICE TO PROVIDE TESTING AS REQUIRED. COST OF TESTING BY CONTRACTOR.

5.4 PROVIDE A 20mm CHAMFER ON ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE.

5.5 CONCRETE FINISHES SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1.

5.6 ALL CONCRETE CURING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1. SPECIAL PRECAUTIONS SHALL BE TAKEN AS NOTED IN CSA A23.1 FOR PLACING AND CURING CONCRETE ABOVE 30° C AND BELOW 5° C.

5.7 MINIMUM CONCRETE COVER TO REINFORCING SHALL BE 70mm, UNLESS NOTED OTHERWISE.

5.8 REINFORCING STEEL SHALL CONFORM TO C.S.A. SPECIFICATION G30.18-M, GRADE 400.

5.9 LAP OF BARS FOR SPLICES TO BE AS FOLLOWS, UNLESS NOTED OTHERWISE: 10M BARS - 300mm 15M - 400. BARS TO BE STAGGERED SO THAT NOT MORE THAN EVERY THIRD BAR IS SPLICED AT ANY CROSS SECTION.

5.10 TOP OF EXPOSED CONCRETE SHALL HAVE A TRANSVERSE BROOM FINISH.

5.11 TOP OF DECK SLAB SHALL BE ROUGHENED TO THE EQUIVALENT OF ICRI CSP 8.

6.0 GROUT

6.1 GROUT TO BE NON SHRINK, 50MPa.

7.0 ADHESIVE ANCHORS

7.1 ALL ANCHORS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

7.2 UNLESS NOTED OTHERWISE ADHESIVE ANCHORS SHALL BE HILTI 'HAS' ROD. REFER TO DRAWINGS FOR ANCHOR LOCATIONS, SIZES, CENTRES AND EMBEDMENT LENGTH. USE HILTI HY200 MAX OR HILTI HIT RE500 ADHESIVE AS NOTED BELOW.

USE HILTI HIT HY200 MAX WHEN;
A QUICK CURE IS REQUIRED,
CONDITIONS ARE DRY,
HOLES ARE HAMMER DRILLED,
HOLES ARE NOT OVER-SIZED,
BASE MATERIAL TEMPERATURE IS ABOVE 5° CELSIUS.

USE HILTI HIT RE500 WHEN;
EXTENDED WORKING TIME IS REQUIRED AND CURE TIME IS NOT CRITICAL,
HOLES ARE DRILLED USING DIAMOND CORE, PNEUMATIC OR HAMMER DRILLS,
DEEP EMBEDMENT IS SPECIFIED,
THE APPLICATION IS UNDERWATER, OR HOLES ARE OVERSIZED.

7.3 HOLES FOR ADHESIVE ANCHORS SHALL BE CLEANED OUT WITH HIGH PRESSURE AIR AND THEN A BRUSH PRIOR TO ANCHOR INSTALLATION.

7.4 INSTALLERS OF HILTI PRODUCTS SHALL HAVE RECEIVED TRAINING BY HILTI (CANADA) CORP. IN THE USE OF THE SPECIFIED PRODUCTS. THE GENERAL CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH A LETTER STATING THAT THIS TRAINING HAS BEEN COMPLETED.

7.5 STEEL HARDWARE (BOLTS, WASHERS, NUTS, ANCHOR RODS) SHALL BE ASTM A325 TYPE 1 AND ARE TO BE GALVANIZED WITH 610 gm/m MINIMUM ZINC COATING IN ACCORDANCE WITH ASTM A123M.

8.0 ABBREVIATIONS

C.I.P.	–	CAST IN PLACE
CL.	–	CLEAR
℄	–	CENTRELINE
CP.	–	COMPLETE PENETRATION
C/W	–	COMPLETE WITH
DWG.	–	DRAWING
EL.	–	ELEVATION
REV.	–	REVISION
I.D.	–	INSIDE DIAMETER
LLH	–	LONG LEG HORIZONTAL
LLV	–	LONG LEG VERTICAL
MAX.	–	MAXIMUM
MIN.	–	MINIMUM
M.o.T.	–	MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
N.T.S.	–	NOT TO SCALE
OPP.	–	OPPOSITE
PL	–	PLATE
R	–	RADIUS
SIM.	–	SIMILAR
S.S.	–	STAINLESS STEEL
T.O.	–	TOP OF
TYP.	–	TYPICAL
U/S	–	UNDERSIDE
U.N.O.	–	UNLESS NOTED OTHERWISE
WP	–	WORK POINT

DRAWING LIST

DRAWING No.	DESCRIPTION
1473-010-S01	GENERAL NOTES
1473-010-S02	SITE PLAN
1473-010-S03	GENERAL ARRANGEMENT SHEET 1
1473-010-S04	GENERAL ARRANGEMENT SHEET 2
1473-010-S05	STEEL GIRDERS
1473-010-S06	CAST-IN PLACE DECK & BALLAST WALL
1473-010-S07	CAST-IN PLACE ABUTMENT & MISCELLANEOUS DETAILS

ISSUED FOR INFORMATION ONLY

ISSUES

No.	DATE YYYY.MM.DD	ISSUED FOR
A	2018.01.15	40% REVIEW
B	2018.01.24	90% REVIEW
C	2018.02.20	INFORMATION ONLY

SUB CONSULTANT

DRAFTED ADS
DRAFTING REVIEW
DESIGNED TW
DESIGN REVIEW

HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com

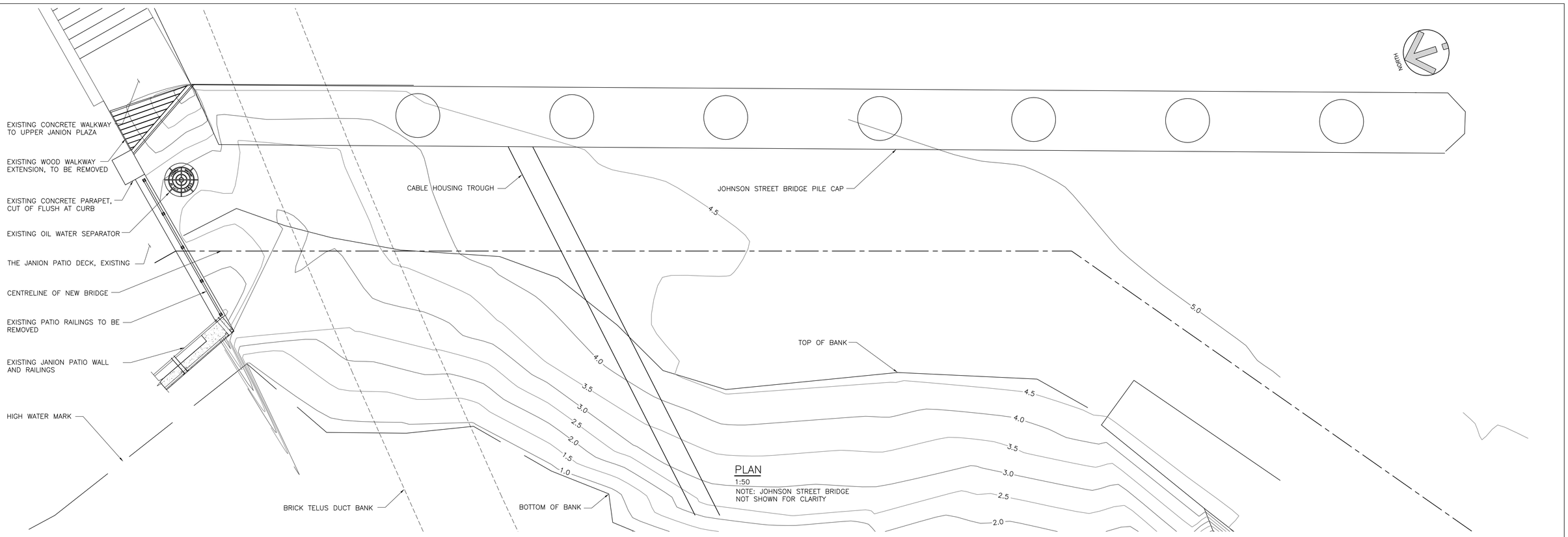
ENGINEERS SEAL

GENERAL NOTES

JOHNSON STREET BRIDGE PEDESTRIAN
1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No. 1473-010
CLIENT DWG. No. N/A
SCALE AS SHOWN
PERMIT No. N/A
HEL DRAWING No. S01
REVISION C

DESTROY ALL DRAWINGS SHOWING PREVIOUS REVISION



PLAN
1:50
NOTE: JOHNSON STREET BRIDGE NOT SHOWN FOR CLARITY

EXISTING PROFILE ALONG CENTERLINE OF BRIDGE – LOOKING EAST
1:50

ISSUED FOR INFORMATION ONLY

NOTES:
1. SEE GENERAL NOTES, SHEET S01

ISSUES

No.	DATE YYYY.MM.DD	ISSUED FOR
A	2018.01.15	40% REVIEW
B	2019.01.24	90% REVIEW
C	2018.02.20	INFORMATION ONLY

SUB CONSULTANT

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DRAFTING REVIEW
DESIGNED TW
DESIGN REVIEW

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Tel: 250-751-8558 Fax: 250-751-8559
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ENGINEERS SEAL

SITE PLAN

JOHNSON STREET BRIDGE PEDESTRIAN

1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No.	CLIENT DWG. No.
1473-010	N/A
SCALE: AS SHOWN	PERMIT No.: N/A
HEL DRAWING No.: S02	REVISION: C

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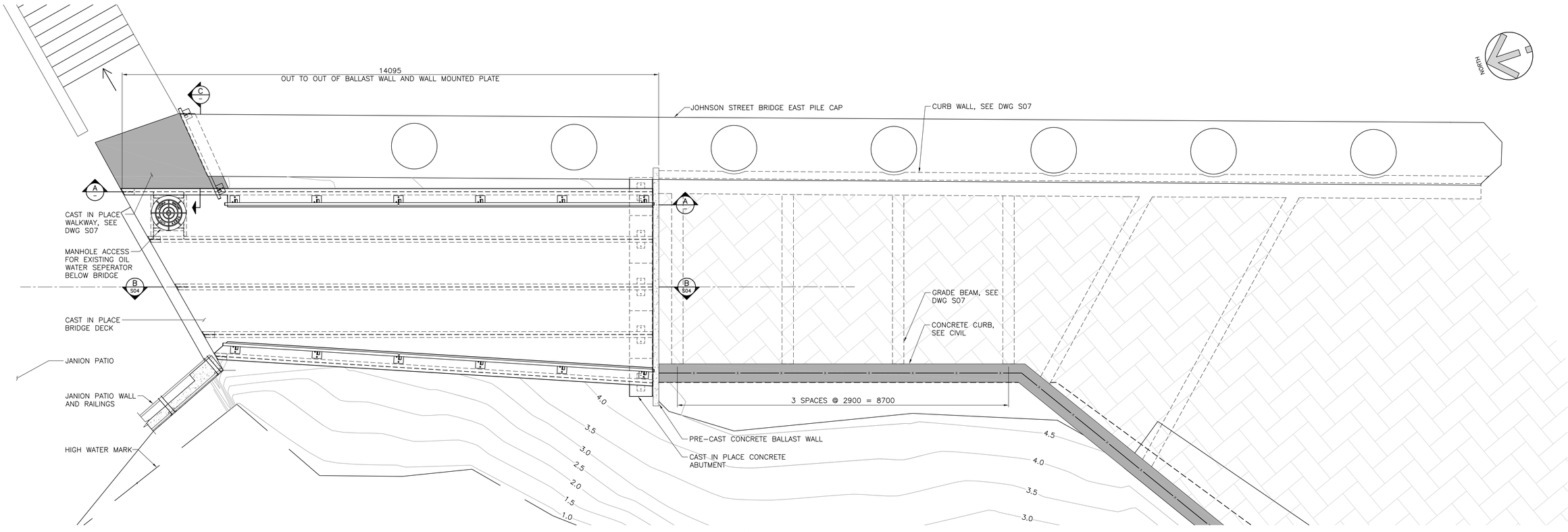
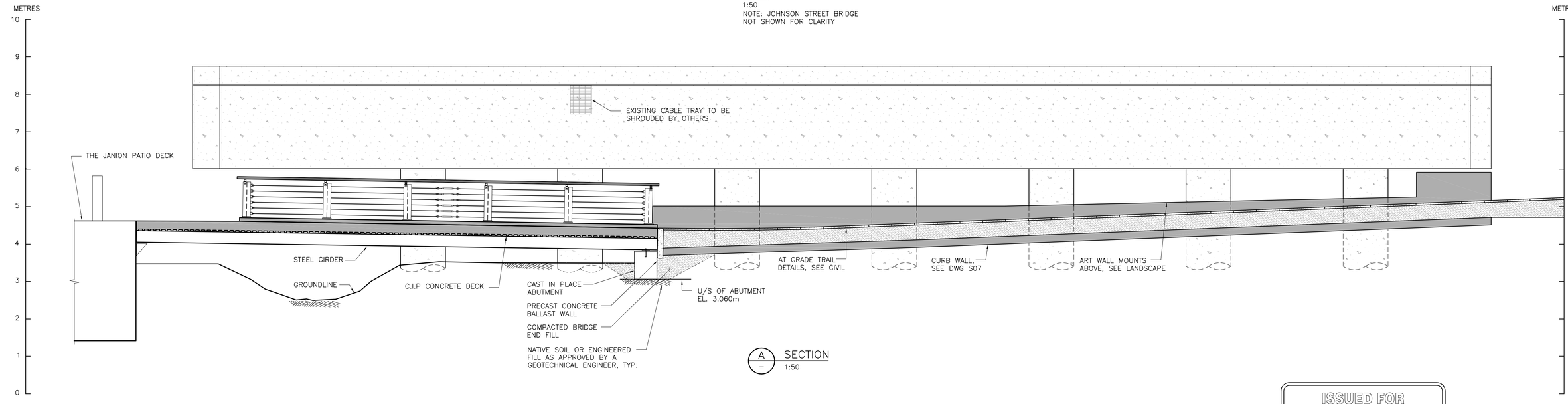


PLAN
1:50
NOTE: JOHNSON STREET BRIDGE NOT SHOWN FOR CLARITY



A SECTION
1:50

ISSUED FOR INFORMATION ONLY

NOTES:
1. SEE GENERAL NOTES, SHEET S01.

ISSUES								
No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR
A	2018.01.15	REVIEW						
B	2018.01.24	90% REVIEW						
C	2018.02.20	INFORMATION ONLY						

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DRAFTING REVIEW
DESIGNED TW
DESIGN REVIEW

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Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com

ENGINEERS SEAL

GENERAL

JOHNSON STREET

1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No.	CLIENT DWG. No.
1473-010	N/A
SCALE: AS SHOWN	PERMIT No.: N/A
HEL DRAWING No.: S03	REVISION: C

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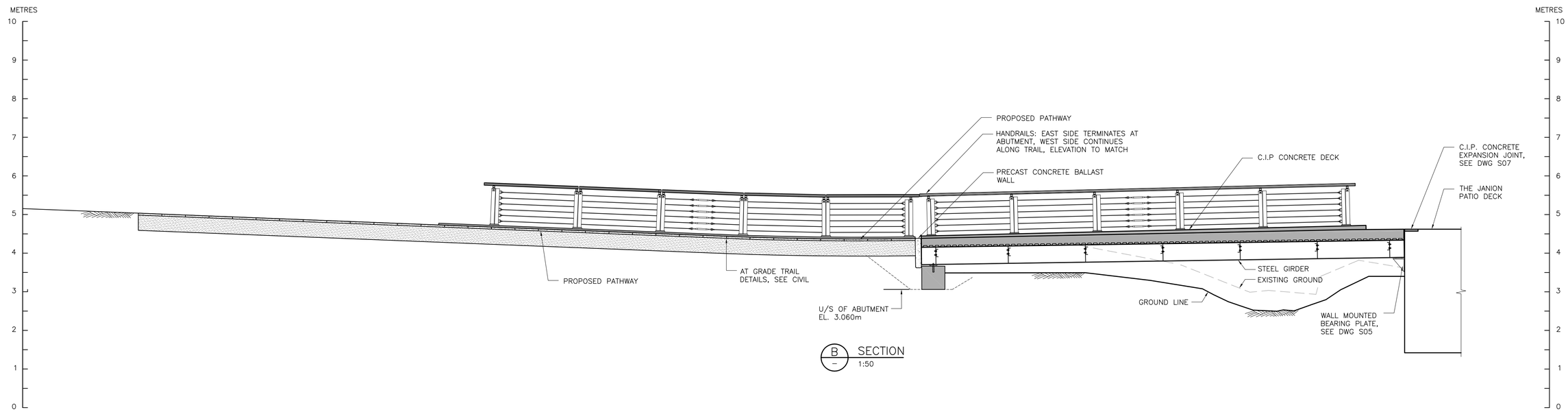
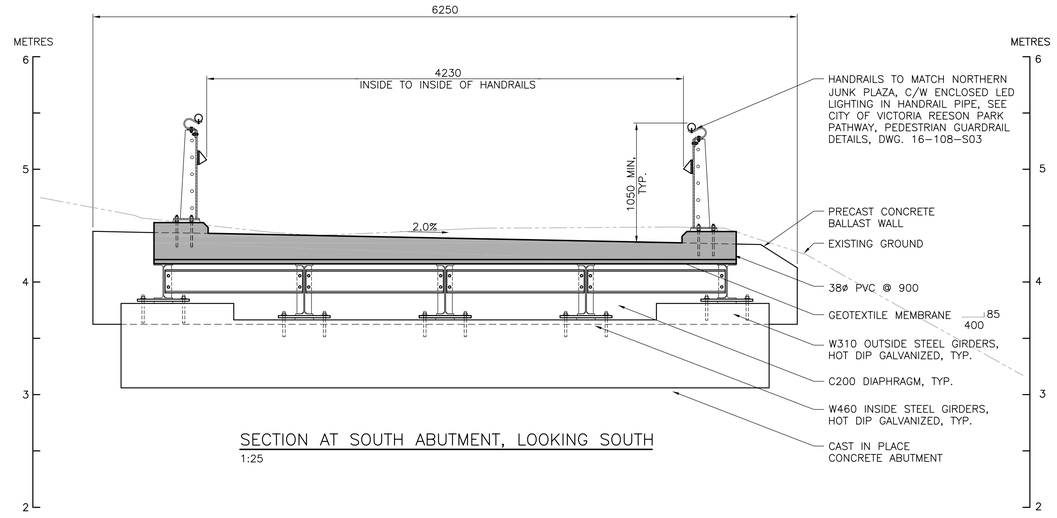
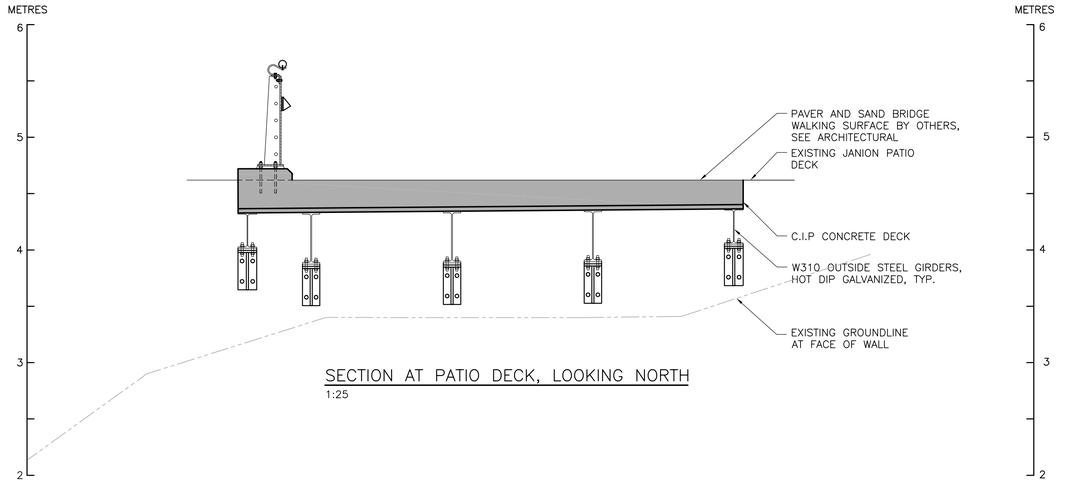


B – SECTION
1:50



SECTION AT SOUTH ABUTMENT, LOOKING SOUTH
1:25



SECTION AT PATIO DECK, LOOKING NORTH
1:25

ISSUED FOR INFORMATION ONLY

NOTES:
1. SEE GENERAL NOTES, SHEET S01.

ISSUES								
No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR
A	2018.01.15	REVIEW						
B	2018.01.24	90% REVIEW						
C	2018.02.20	INFORMATION ONLY						

SUB CONSULTANT

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DRAFTING REVIEW
DESIGNED TW
DESIGN REVIEW

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Tel: 250-751-8558 Fax: 250-751-8559
Email: mail@heroldengineering.com

ENGINEERS SEAL

GENERAL

JOHNSON STREET

1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No.	CLIENT DWG. No.
1473-010	N/A
SCALE: AS SHOWN	PERMIT No.: N/A
HEL DRAWING No.: S04	REVISION: C

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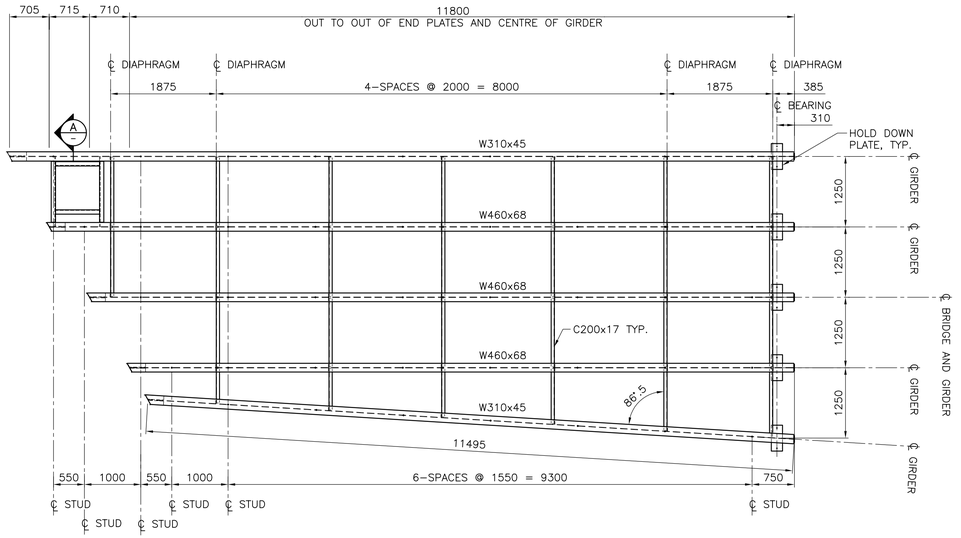
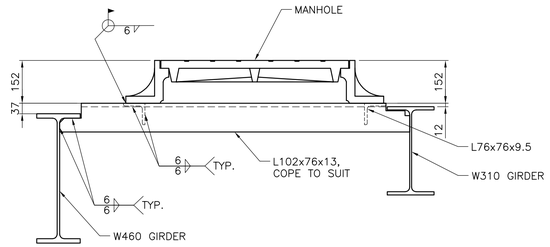
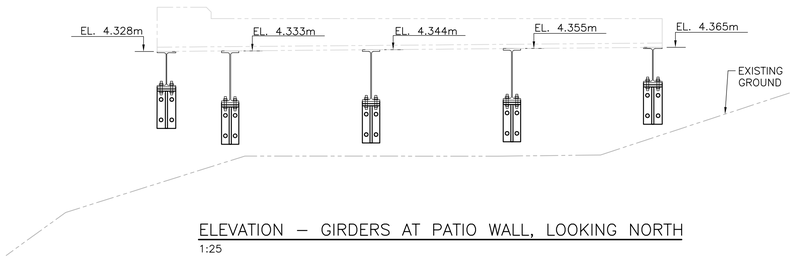


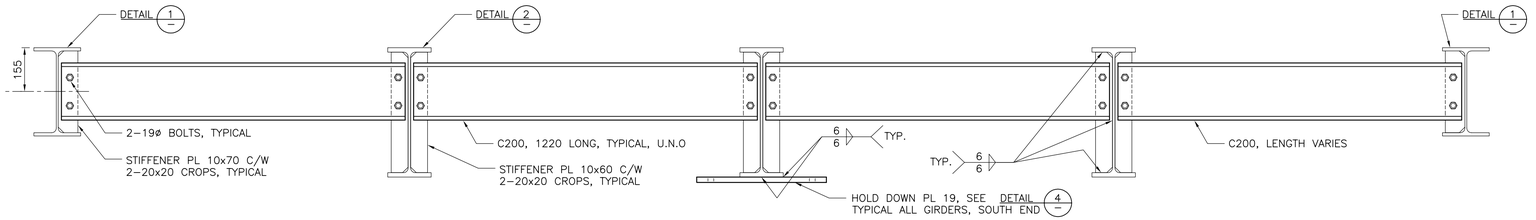
PLAN – GIRDERS
1:50



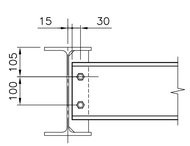
A – SECTION
1:10



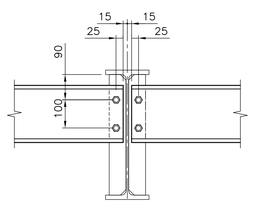
ELEVATION – GIRDERS AT PATIO WALL, LOOKING NORTH
1:25



LOOKING SOUTH
SECTION – DIAPHRAGM
1:10



1 – DETAIL
1:10



2 – DETAIL
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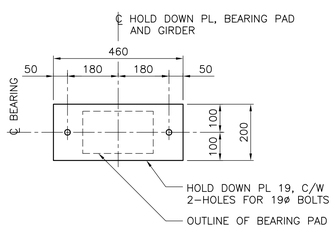
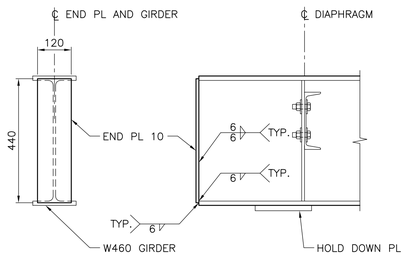
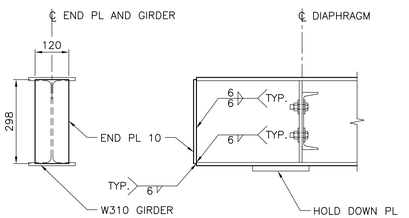


4 – DETAIL – HOLD DOWN PL
1:10
NOTE: 5–REQUIRED.



W460 END PLATE DETAIL
1:10
NOTE: SOUTH END ONLY.



W310 END PLATE DETAIL
1:10
NOTE: SOUTH END ONLY.

ISSUED FOR INFORMATION ONLY

NOTES:
1. SEE GENERAL NOTES, SHEET S01.
2. All STEEL TO BE HOT DIP GALVANIZED.

ISSUES								
No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR
A	2018.01.15	REVIEW						
B	2018.01.24	90% REVIEW						
C	2018.02.20	INFORMATION ONLY						

SUB CONSULTANT

DRAFTED ADS
DRAFTING REVIEW
DESIGNED TW
DESIGN REVIEW

HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250–751–8558 Fax: 250–751–8559
Email: mail@heroldengineering.com

ENGINEERS SEAL

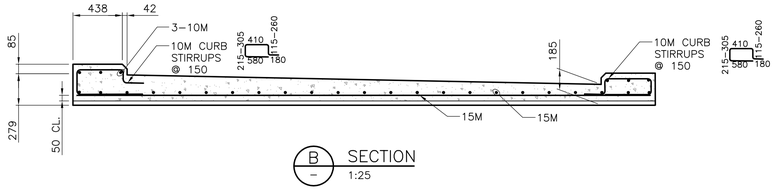
STEEL GIRDERS

JOHNSON STREET

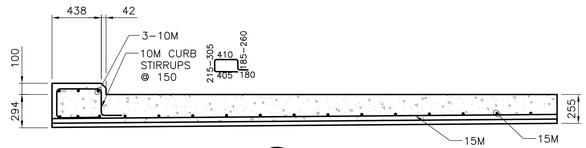
1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No.	CLIENT DWG. No.
1473–010	N/A
SCALE: AS SHOWN	PERMIT No.: N/A
HEL DRAWING No.: S05	REVISION: C

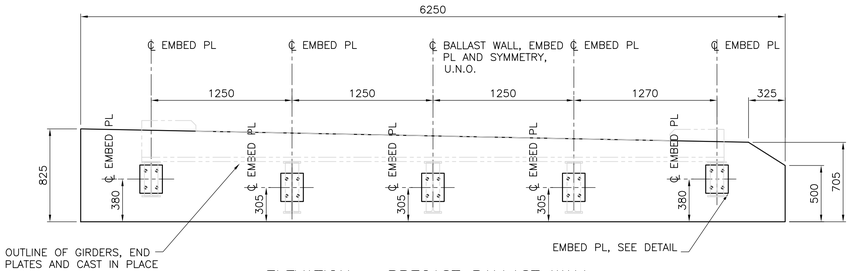
DESTROY ALL DRAWINGS SHOWING PREVIOUS REVISION



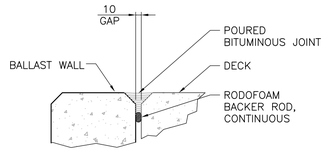
B — SECTION
1:25



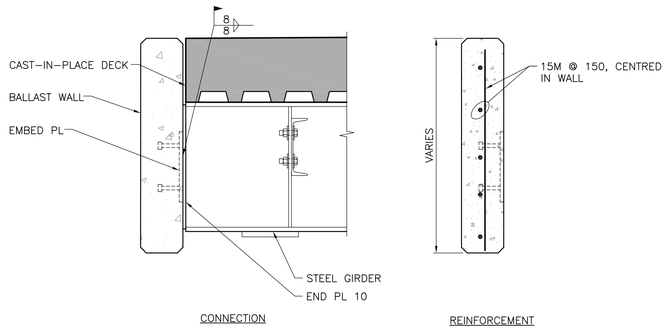
C — SECTION
1:25



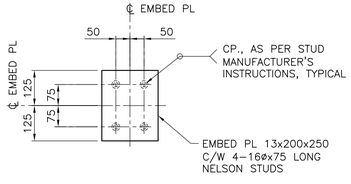
ELEVATION – PRECAST BALLAST WALL
1:25



DETAIL – BALLAST WALL/DECK JOINT
1:5



DETAILS – BALLAST WALL
1:10



DETAIL – EMBED PLATE
1:10
NOTE: 5–REQUIRED.

ISSUED FOR INFORMATION ONLY

NOTES:
1. SEE GENERAL NOTES, SHEET S01.
2. All STEEL TO BE HOT DIP GALVANIZED.

ISSUES								
No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR	No.	DATE YYY.MM.DD	ISSUED FOR
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DRAFTING REVIEW
DESIGNED TW
DESIGN REVIEW

HEROLD ENGINEERING
3701 Shenton Rd, Nanaimo, BC V9T 2H1
Tel: 250–751–8558 Fax: 250–751–8559
Email: mail@heroldengineering.com

ENGINEERS SEAL

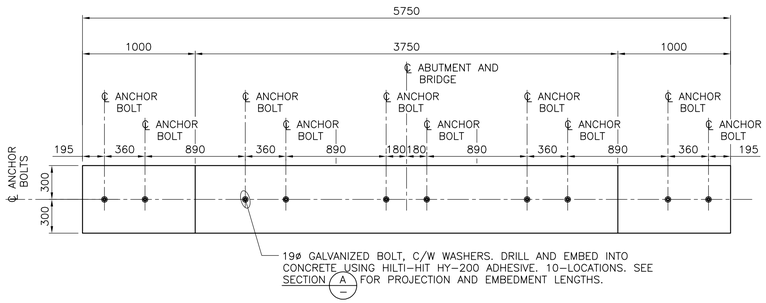
CAST IN PLACE DECK

JOHNSON STREET

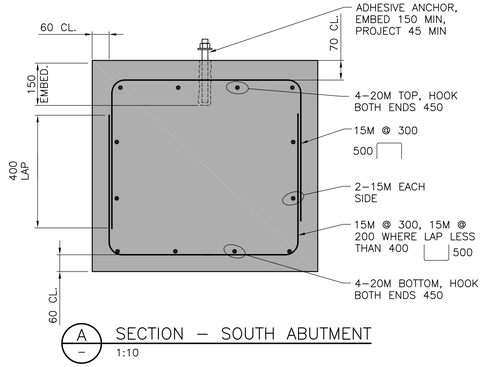
1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No.	CLIENT DWG. No.
1473–010	N/A
SCALE: AS SHOWN	PERMIT No.: N/A
HEL DRAWING No.: S06	REVISION: C

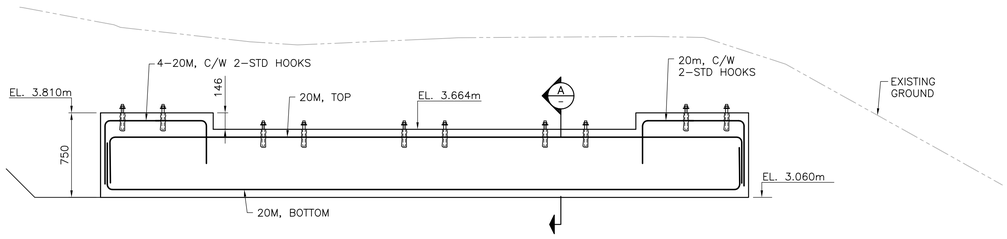
DESTROY ALL DRAWINGS SHOWING PREVIOUS REVISION



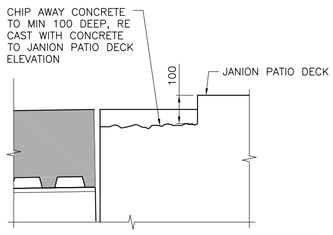
PLAN – CAST IN PLACE ABUTMENT
1:25



A – SECTION – SOUTH ABUTMENT
1:10



ELEVATION – CAST IN PLACE ABUTMENT, LOOKING SOUTH
1:25
NOTE: STANDARD REINFORCEMENT NOT SHOWN.



DETAIL – C.I.P EXPANSION JOINT
1:25

ISSUED FOR INFORMATION ONLY

NOTES:
1. SEE GENERAL NOTES, SHEET S01.

ISSUES								
No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR	No.	DATE YYYY.MM.DD	ISSUED FOR
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Email: mail@heroldengineering.com

ENGINEERS SEAL

CAST-IN PLACE

JOHNSON STREET

1 CENTENNIAL SQUARE VICTORIA BC V8W 1P6
CITY OF VICTORIA

HEL PROJECT No.	CLIENT DWG. No.
1473-010	N/A
SCALE: AS SHOWN	PERMIT No.: N/A
HEL DRAWING No.: S07	REVISION: C

DESTROY ALL DRAWINGS SHOWING PREVIOUS REVISION