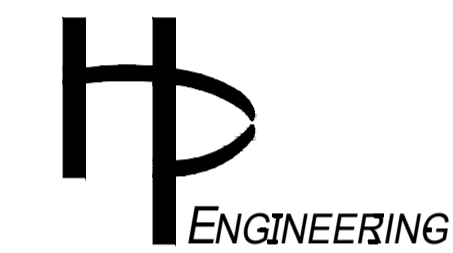


ISSUED FOR TENDER
(JANUARY 15, 2025)

UNITED COUNTIES OF PRESCOTT AND RUSSELL

Prescott
Russell

JÉRÉMIE BOUCHARD, P. Eng.
Public Works Director

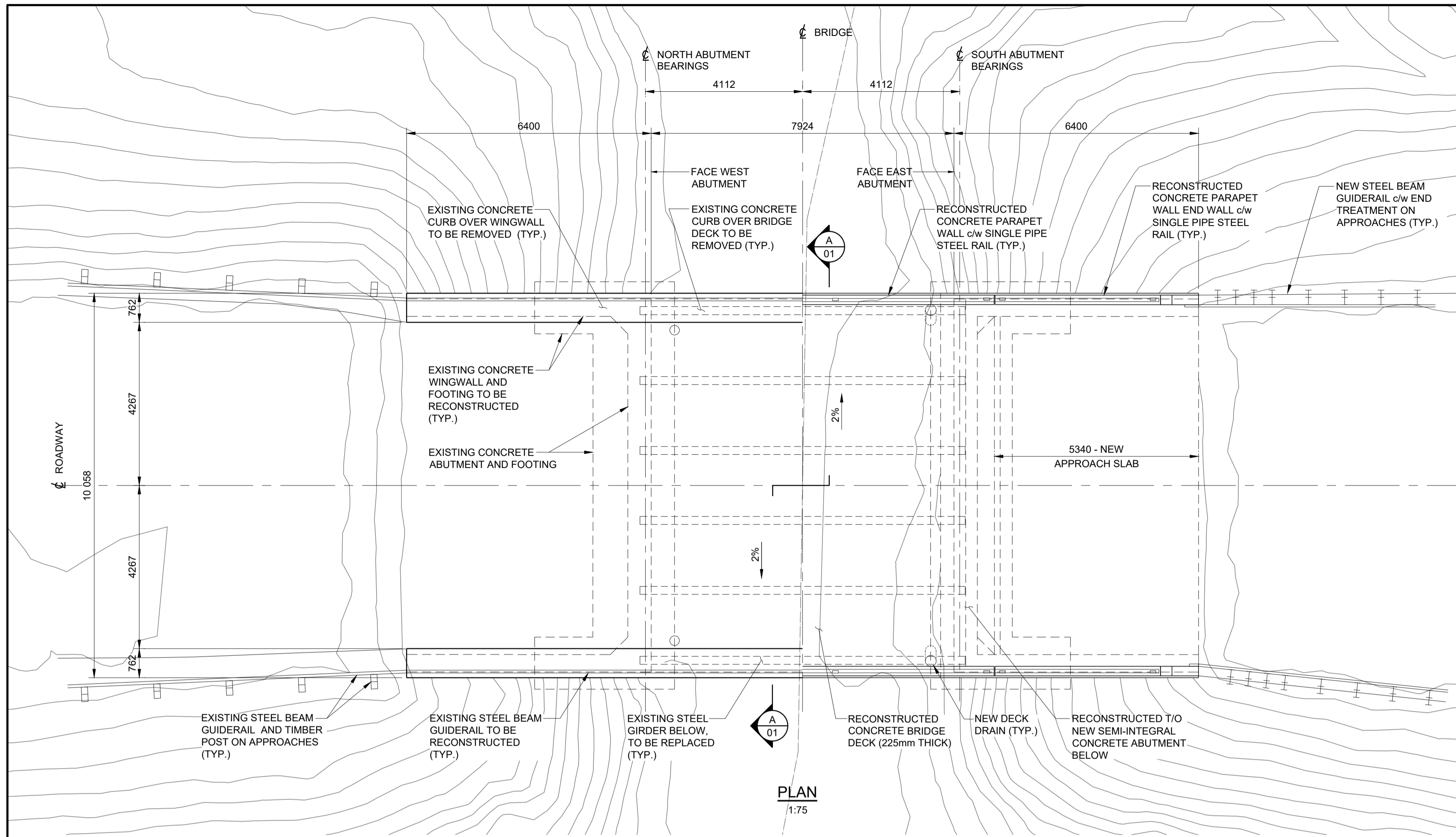


LIST OF DRAWINGS

- COVER SHEET
- 1 - GENERAL ARRANGEMENT
- 2 - DETOUR ROUTE / TRAFFIC STAGING
- 3 - ROADWAY REMOVALS - PLAN AND SECTIONS
- 4 - ROADWAY - RECONSTRUCTION - PLAN AND SECTION
- 5 - PAVEMENT MARKINGS
- 6 - SUBSTRUCTURE - REMOVALS
- 7 - SUBSTRUCTURE - RECONSTRUCTION - DIMENSIONAL
- 8 - SUBSTRUCTURE - RECONSTRUCTION - REINFORCING
- 9 - SUPERSTRUCTURE - REMOVALS
- 10 - SUPERSTRUCTURE - RECONSTRUCTION - DIMENSIONAL
- 11 - SUPERSTRUCTURE - RECONSTRUCTION - REINFORCING
- 12 - STRUCTURAL STEEL - DETAILS
- 13 - MISCELLANEOUS DETAILS
- 14 - PARAPET WALL
- 15 - PARAPET WALL RAILING
- 16 - CONCRETE APPROACH SLAB

BRIDGE OVER EAST BRANCH CASTOR RIVER - REHABILITATION (STRUCTURE No. 06-027)

CONTRACT No. PW-2025-01



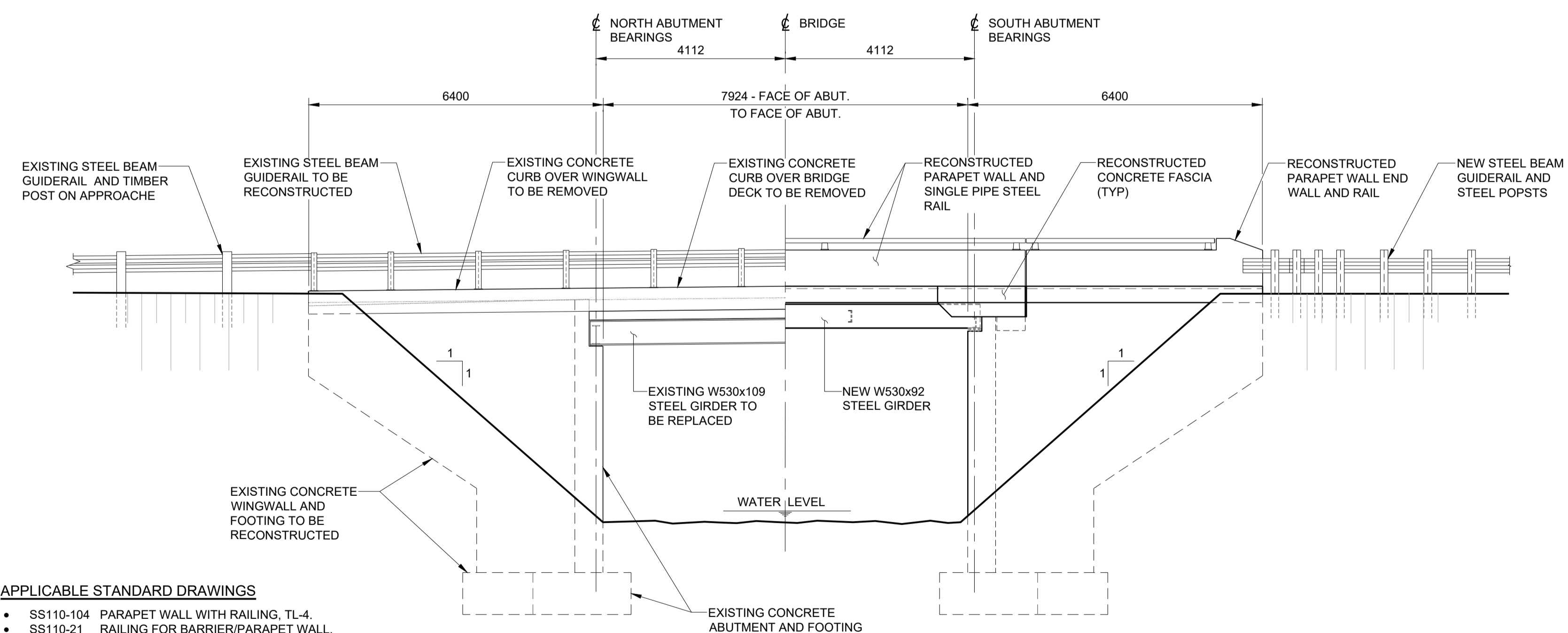
PLAN
1:75

GENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
- CLASS OF CONCRETE: EXPOSURE CLASS C-1 (35 MPA c/w AIR ENTRAINMENT).
- DESIGN LOADING: CHBDC 2019, CAN/CSA-56-19.
- REINFORCING STEEL SHALL BE GRADE 400. PREFIX 'G' DENOTES HOT DIPPED GALVANIZED REINFORCING STEEL.
- CLEAR COVER TO REINFORCING STEEL SHALL BE 70 ± 20mm UNLESS NOTED OTHERWISE.
- BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWINGS SS12-1 AND SS12-2, UNLESS INDICATED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS AND ELEVATIONS OF THE EXISTING STRUCTURE THAT ARE RELEVANT TO THE WORK SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR AND THE PROPOSED ADJUSTMENT OF THE WORK REQUIRED TO MATCH THE EXISTING STRUCTURE SHALL BE SUBMITTED FOR APPROVAL.
- THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- ALL AREAS AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE FULLY REINSTATED TO PRE-CONSTRUCTION OR BETTER CONDITIONS TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR INCLUDING REINSTATEMENT OF ALL VEGETATION, PATHWAYS, FENCES, AREAS USED FOR SITE ACCESS, SITE STORAGE, ETC.
- THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR ESTABLISHING THEIR OWN SITE ACCESS TO COMPLETE THE WORK. ALL COSTS FOR SITE ACCESS SHALL BE INCLUDED IN THE CONTRACTOR'S TOTAL TENDER PRICE, UNDER THE APPROPRIATE TENDER ITEMS.
- ALL EXPOSED CONCRETE EDGES (NEW CONCRETE) SHALL HAVE A 25mm CHAMFER.
- ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO PROVINCIAL STANDARDS. ALL MATERIAL SUPPLIED SHALL BE FROM MTO DESIGNATED SOURCES, WHERE APPLICABLE.
- ALL ENVIRONMENTAL PROTECTION SYSTEMS SHALL BE FULLY EFFECTIVE IN PREVENTING CONTAMINATION OF THE WATERWAY AND ENVIRONMENT. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR ENVIRONMENTAL PROTECTION SCHEMES FROM ALL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR'S PRICE FOR THE WORK SHALL INCLUDE ALL LABOUR, EQUIPMENT, MATERIAL AND TRANSPORTATION NECESSARY TO COMPLETE THE WORK, INCLUDING ANY AND ALL INCIDENTAL WORK WHETHER OR NOT EXPLICITLY DETAILED ON THE CONTRACT DRAWINGS BUT REQUIRED FOR PROPER PERFORMANCE AND COMPLETION OF THE WORKS AS PER THE DRAWINGS AND SPECIFICATIONS.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH BOOK 7 OF THE ONTARIO TRAFFIC MANUAL. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC, THEIR WORKERS AND THE GENERAL PUBLIC AT ALL TIMES DURING CONSTRUCTION.
- THE SCOPE OF WORK ON THIS DRAWING IS PROVIDED FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR AS DEPICTING THE EXACT SEQUENCE OF WORK.
- THE CONTRACTOR SHALL BE DESIGNATED AS THE 'CONSTRUCTOR' FOR THIS PROJECT AND IS FULLY AND SOLELY RESPONSIBLE FOR ALL ASPECTS OF HEALTH AND SAFETY FOR THE WORK SITE, ALL EMPLOYEES, SUBCONTRACTORS, AND OTHER SITE VISITORS. THE CONTRACTOR SHALL DEVELOP, IMPLEMENT, MONITOR AND ADJUST AS REQUIRED, THEIR OWN COMPREHENSIVE HEALTH AND SAFETY PLAN AND SHALL MAINTAIN RECORDS ON SITE (INCLUDING, BUT NOT NECESSARILY LIMITED TO: INCIDENT REPORTS, MOL SITE VISIT REPORTS, RECORDS OF DAILY 'TAILGATE' MEETINGS, ETC.). ALL RECORDS SHALL BE MADE READILY AVAILABLE TO THE CONTRACT ADMINISTRATOR AND OWNER AT ALL TIMES.

SCOPE OF WORK:

- MOBILIZE TO SITE, SET UP DETOUR ROUTE AND CLOSE ROAD TO TRAFFIC
- IMPLEMENT ENVIRONMENTAL PROTECTION SYSTEM
- REMOVE ASPHALT AND WATERPROOFING FULL DEPTH OVER BRIDGE DECK
- REMOVE ASPHALT ON APPROACHES FULL DEPTH
- REMOVE STEEL BEAM GUIDERAIL AND STEEL / TIMBER POSTS OVER BRIDGE DECK / WINGWALLS AND ON APPROACHES
- REMOVE CONCRETE CURBS OVER BRIDGE DECK AND WINGWALLS
- REMOVE CONCRETE BRIDGE DECK FULL DEPTH INCLUDING DECK DRAIN ASSEMBLIES
- REMOVE STEEL GIRDERS, DIAPHRAGMS, AND BEARING ASSEMBLIES
- REMOVE BALLAST WALLS FULL HEIGHT
- REMOVE UPPER SECTIONS OF ABUTMENT BEARING SEATS AND WINGWALLS
- RECONSTRUCT UPPER SECTIONS OF ABUTMENT BEARINGS SEATS AND WINGWALLS
- RECONSTRUCT LOWER PORTION OF OF BALLAST WALLS
- SUPPLY AND INSTALL NEW GIRDER BEARING ASSEMBLIES
- FABRICATE, SUPPLY AND INSTALL NEW STRUCTURAL STEEL GIRDERS AND DIAPHRAGMS
- CONSTRUCT NEW REINFORCED CONCRETE DECK INCLUDING SEMI-INTEGRAL BLOCKOUT ASSEMBLIES AND DECK DRAINS
- CONSTRUCT NEW REINFORCED CONCRETE PARAPET WALLS OVER BRIDGE DECK AND WINGWALLS
- SUPPLY AND INSTALL NEW SINGLE STEEL RAILING ON PARAPET WALLS
- CARRY OUT PARTIAL DEPTH CONCRETE REMOVALS ON LOWER PORTIONS OF ABUTMENT WALLS
- CLEAR AND GRUB VEGETATION ON EMBANKMENTS ADJACENT TO BRIDGE DECK
- SUPPLY AND INSTALL ROCK PROTECTION OVER GEOTEXTILE ON EMBANKMENTS ADJACENT TO BRIDGE DECK
- PLACE WATERPROOFING AND HOT MIX ASPHALT OVER BRIDGE DECK
- BENCH / WIDEN EMBANKMENTS ON APPROACHES TO ACCOMMODATE NEW STEEL BEAM GUIDERAIL AND END TREATMENTS
- PLACE HOT MIX ASPHALT ON APPROACHES INCLUDING RE-GRADING AND PROOF ROLLING OF GRANULAR ROADWAY BASE
- CONSTRUCT NEW CONCRETE CURB AND GUTTER ON APPROACHES INCLUDING GUTTER OUTLETS
- PLACE NEW PAVEMENT MARKINGS ON ASPHALT WEARING SURFACES
- SUPPLY AND INSTALL NEW APPROACHES STEEL BEAM GUIDERAIL INCLUDING INSTALLATION OF NEW END TREATMENTS
- REMOVE ENVIRONMENTAL PROTECTION SYSTEMS
- REMOVE DETOUR ROUTE, REOPEN BRIDGE TO TRAFFIC, AND DEMOBILIZE FROM SITE



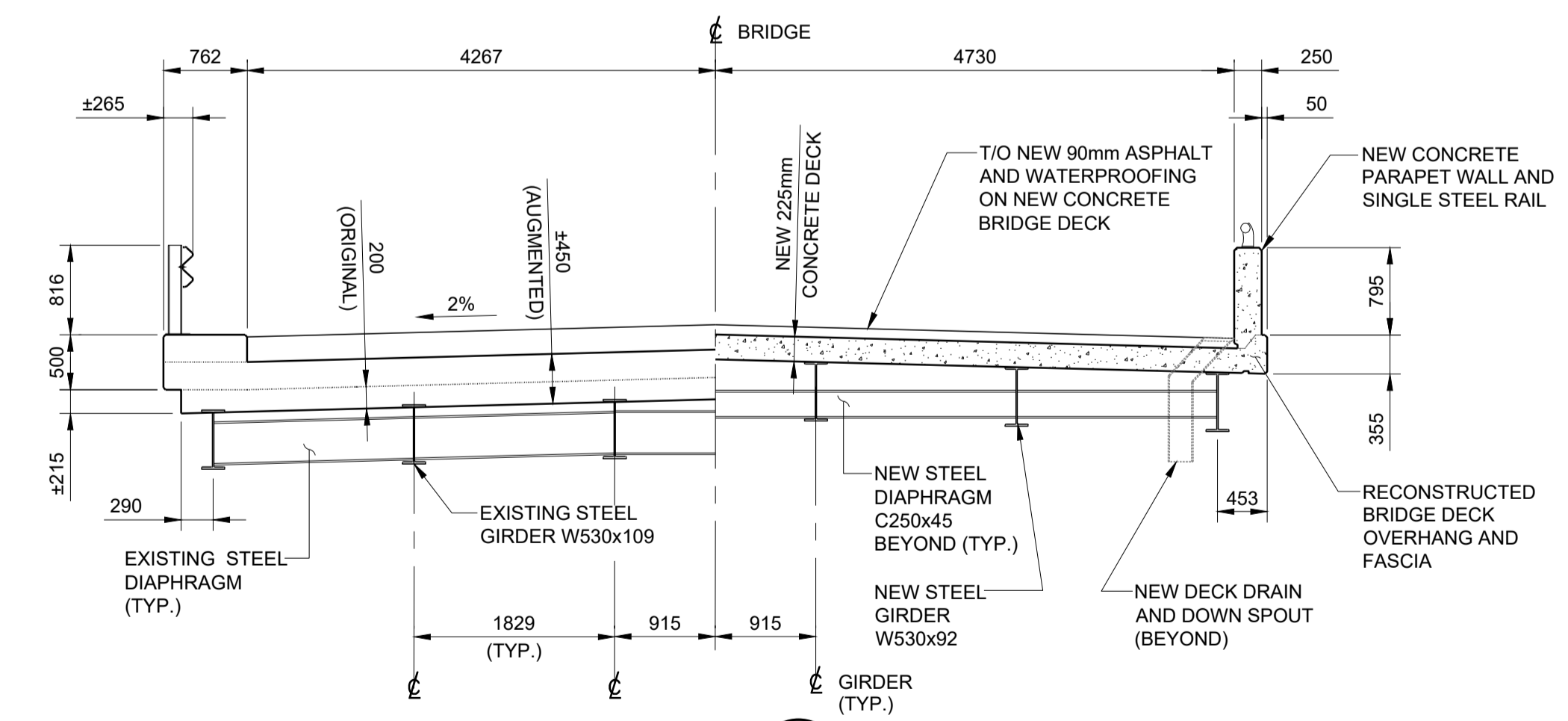
SOUTH ELEVATION
1:75

APPLICABLE STANDARD DRAWINGS

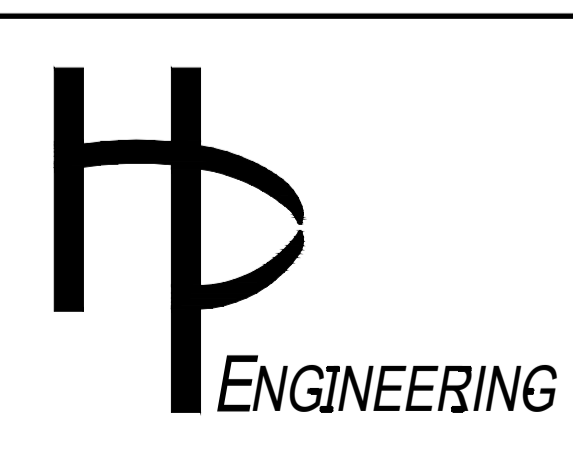
- SS110-104 PARAPET WALL WITH RAILING, TL-4.
- SS110-21 RAILING FOR BARRIER/PARAPET WALL.
- OPSD 208.010 BENCHING OF EARTH SLOPES.
- OPSD 912.124 GUIDE RAIL SYSTEM, STEEL BEAM, TYPE M TRANSITION RAIL, COMPONENT.
- OPSD 912.130 GUIDE RAIL SYSTEM, STEEL BEAM, STEEL POST WITH OFFSET BLOCK ASSEMBLY, INSTALLATION, SINGLE RAIL.
- OPSD 912.185 GUIDE RAIL SYSTEM, STEEL BEAM, TYPE M20, INSTALLATION.
- OPSD 922.186 ENERGY ATTENUATOR, END TREATMENT, SBEAT, MASH SKT, INSTALLATION.
- OPSD 912.235 GUIDE RAIL SYSTEM, STEEL BEAM, LEAVING END TREATMENT, INSTALLATION.
- OPSD 912.430 GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION.
- OPSD 3340.100 DECK DRAINS WITH DOWNSPOUT.
- OPSD 3370.100 DECK WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD DETAILS.
- OPSD 3370.101 DECK WATERPROOFING HOT APPLIED ASPHALT MEMBRANE AT ACTIVE CRACKS GREATER THAN 2mm WIDE AND CONSTRUCTION JOINTS.
- OPSD 3390.100 DECK, DRIP CHANNEL.

TABLE 1: COORDINATES OF BENCHMARKS - LOCAL DATUM

	BENCHMARK #1: PLANTED NAIL IN ASPHALT ON NORTHEAST APPROACH	BENCHMARK #2: PLANTED NAIL IN ASPHALT ON NORTHWEST APPROACH	BENCHMARK #3: PLANTED NAIL IN ASPHALT ON SOUTHEAST APPROACH
x (EASTING), m	472908.3782	473006.4077	473006.4077
y (NORTHING), m	5009116.902	5009046.538	5008880.632
ELEVATION (m)	72.0992	71.5445	72.2408



SECTION A
1:50
01



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT: UNITED COUNTIES OF PRESCOTT & RUSSELL

PROJECT TITLE: BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION

DRAWING TITLE: GENERAL ARRANGEMENT

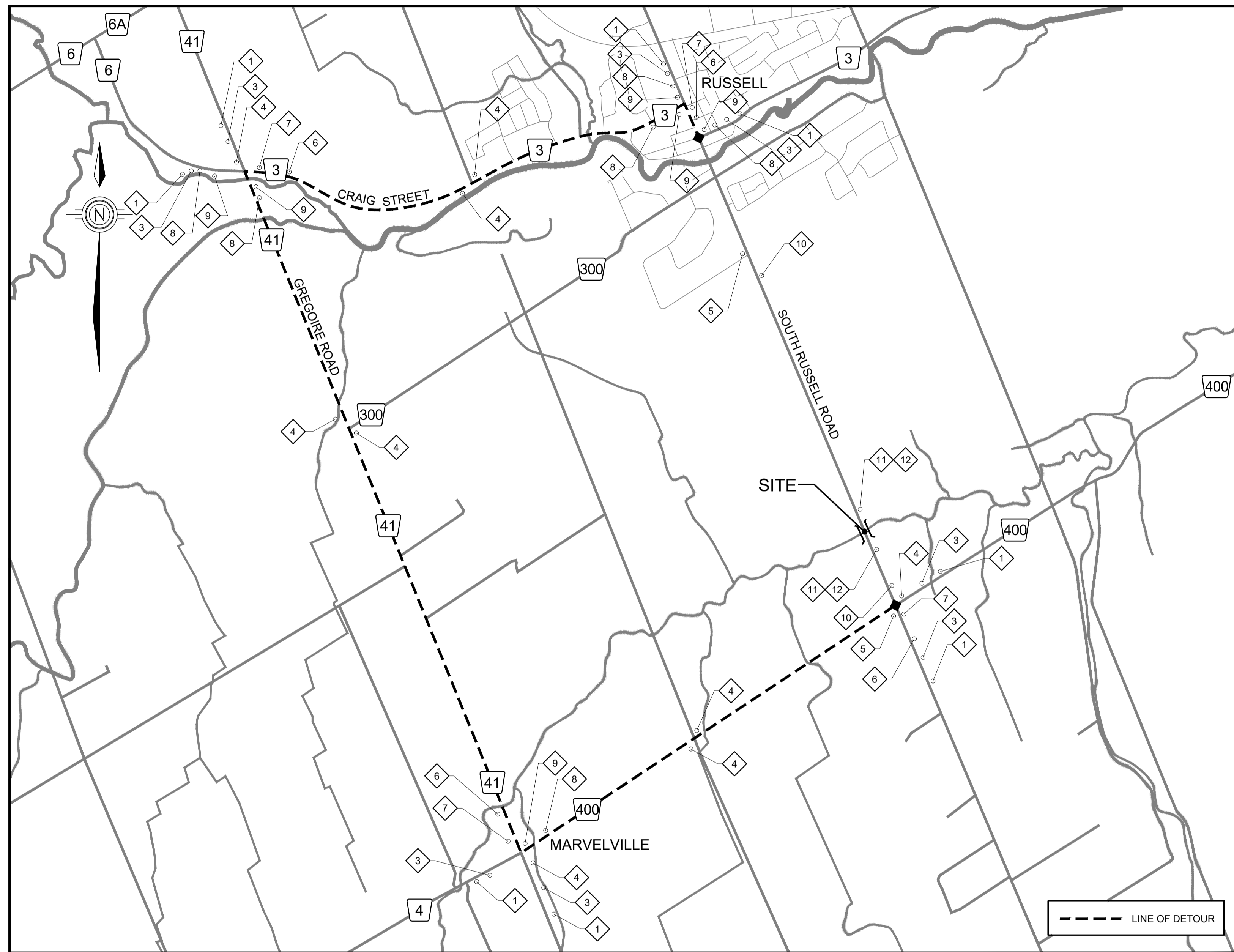
DATE: JANUARY 2025

Scale: AS SHOWN

CONTRACT NO. PW-2025-01

SHEET 2 OF 17

DWG. NO. 01



NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
2. THIS DRAWING IS INTENDED TO SHOW THE MINIMUM LEVEL OF SIGNAGE REQUIRED FOR THE PROPOSED DETOUR ROUTE. ADDITIONAL SIGNS MAY BE REQUIRED FOLLOWING BOOK 7 OF THE ONTARIO TRAFFIC MANUAL, AND/OR IN THE OPINION OF THE CONTRACTOR, TO PROPERLY PROTECT THE PUBLIC AND WORKERS ON SITE.
3. ALL TRAFFIC CONTROL OPERATIONS SHALL BE CARRIED OUT TO AT LEAST THE MINIMUM STANDARDS AS SET FORTH IN BOOK 7 OF THE ONTARIO TRAFFIC MANUAL.
4. LOCATION, SPACING, OFFSET, HEIGHT, ETC. OF ALL SIGNS SHALL BE IN ACCORDANCE WITH BOOK 7.
5. ALL SIGNAGE AND TEMPORARY CONCRETE BARRIERS/ BARRICADES WILL BE REQUIRED FOR THE ENTIRE DURATION OF CONSTRUCTION.
6. THE FINAL LOCATION AND OVERALL NUMBER OF SIGNS MAY BE ADJUSTED BASED ON FIELD REQUIREMENTS. THE SIGNAGE LAYOUT AS SHOWN ON THIS DRAWING SHALL BE USED FOR BIDDING PURPOSES.
7. BRIDGE/ROADWAY CLOSURE AND DETOUR ROUTE SIGNING SHOWN ON THIS DRAWING APPLIES TO ROAD CLOSURE/ TRAFFIC DETOUR AND IS NOT TO BE CONSTRUED AS A COMPLETE OR EXHAUSTIVE DEPICTION OF ALL TRAFFIC CONTROL REQUIRED DURING CONSTRUCTION. ALL OTHER REQUIRED TRAFFIC CONTROL AS PER BOOK 7 (i.e. CONSTRUCTION ZONE SIGNING, FLAG PERSONS FOR LOADING / UNLOADING OF MATERIALS, ETC.) TO PROTECT AND MAINTAIN THE SAFETY OF THE GENERAL PUBLIC AND INDIVIDUAL WORKERS REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S SUBMITTED TRAFFIC CONTROL/ TRAFFIC MANAGEMENT PLAN.
8. WHERE INDICATED ON THIS DRAWING, TC-64 SIGNS SHALL BE INSTALLED 7-DAYS IN ADVANCE OF THE ROAD CLOSURE. A REMOVABLE STICKER SHALL BE PROVIDED "TO BE CLOSED" OVER "CLOSED AT". THE SAME FONT AND COLOUR SHALL BE PROVIDED ON THE STICKER. THE STICKER SHALL BE REMOVED ONCE THE ROAD IS CLOSED.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION AND DETOUR SIGNAGE FOR THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN INCLUDING DRAWINGS SHOWING ALL CONSTRUCTION AND DETOUR SIGNS AND DEVICES TO THE CONTRACT ADMINISTRATOR PRIOR TO CLOSING THE ROAD.
10. THE CONTRACTOR SHALL INSPECT ALL TRAFFIC CONTROL AND DETOUR SCHEMES AND ENSURE PROPER INSTALLATIONS ARE MAINTAINED FOR THE DURATION OF THE CONTRACT. INSPECTIONS SHALL BE PERFORMED PER BOOK 7 BUT NO LESS THAN TWICE PER DAY. THE CONTRACTOR SHALL MAINTAIN A DAILY LOG OF INSPECTIONS AND MAKE THE LOG AVAILABLE TO THE CONTRACT ADMINISTRATOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAILY RELOCATION OF TEMPORARY BARRIERS OR OTHER TRAFFIC CONTROL APPURTENANCES TO PERMIT CONSTRUCTION ACCESS AS REQUIRED.

SIGN ID	SIGN TYPE	TOTAL NUMBER REQUIRED
1	TC-5	8
2	TC-64	0
3	TC-64 w/ TWO TC10 TABS *	8
4	TC-10C	9
5	TC-10D	2
6	TC-10AL	5
7	TC-10BL	5
8	TC-10AR	6
9	TC-10BR	6
10	TC-7 w/ FLASHER, TC-7A, TC-7B	2
11	Rb-92 w/ FLASHER	2
12	TC-53A BARRICADES	2

* INSTALL 7-DAYS IN ADVANCE OF ROAD CLOSURE; SEE NOTE 8 ON THIS DRAWING.

SOUTH RUSSELL ROAD

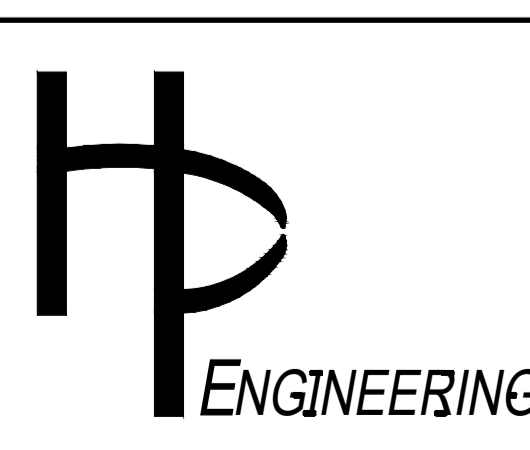
CLOSED BETWEEN

ROUTE 400 AND HERITAGE ROAD
(AT EAST BRANCH CASTOR RIVER BRIDGE)

'MONTH' 2025 TO 'MONTH' 2025

FOLLOW **D-1**

TC-64 w/ TWO TC-10 TABS



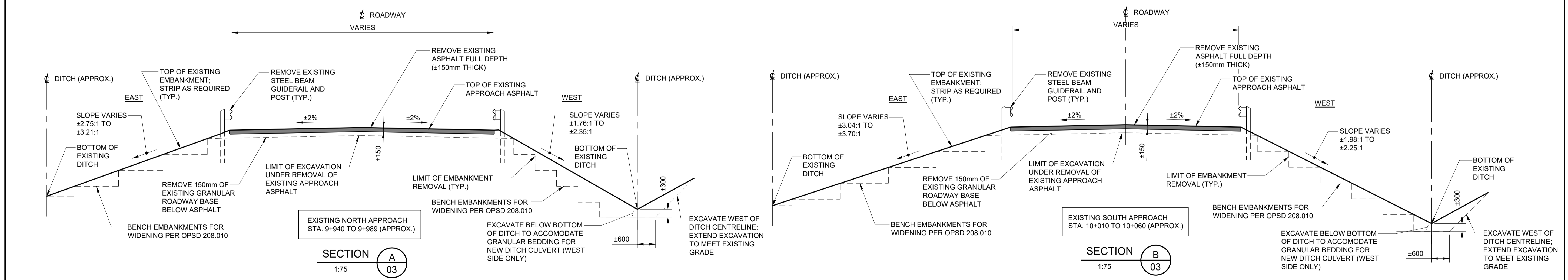
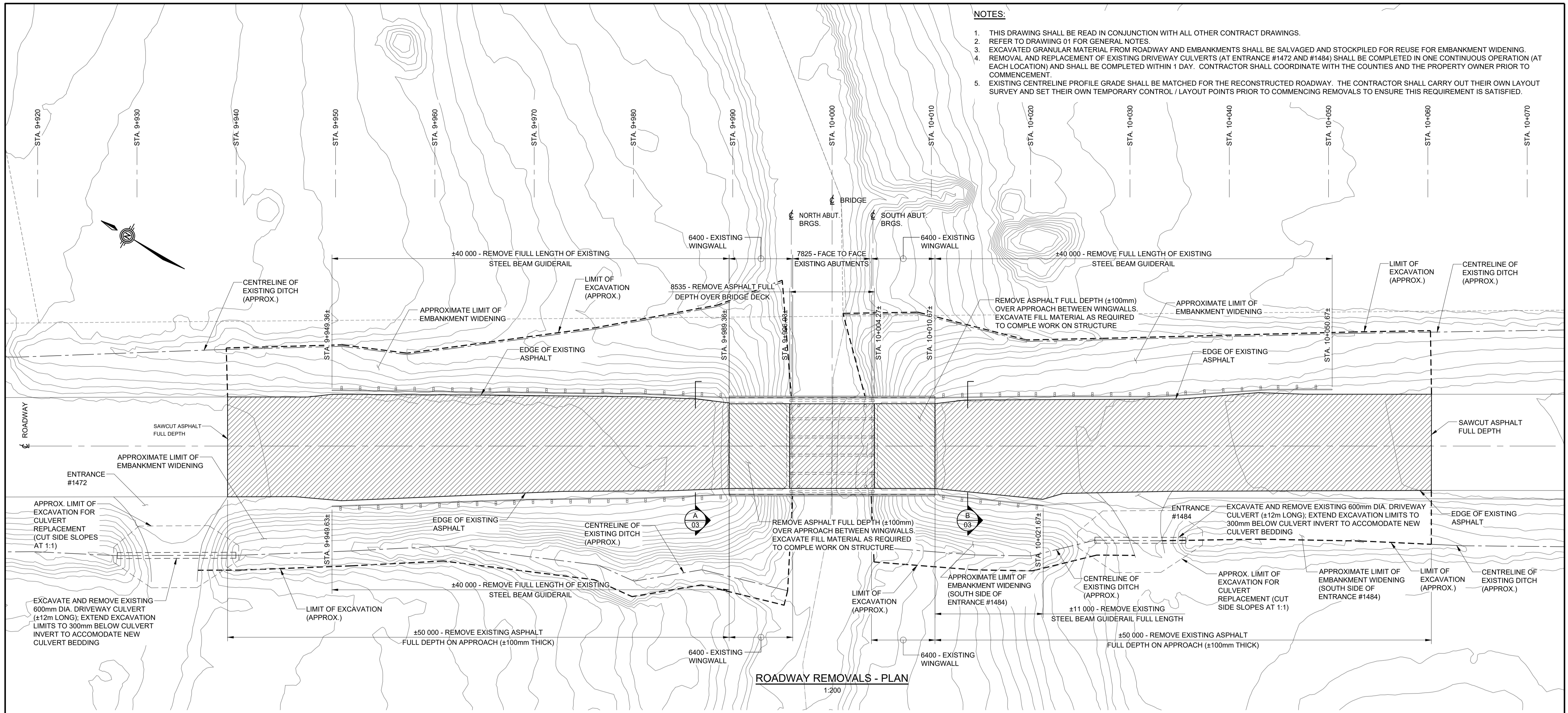
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION
DRAWING TITLE	DETOUR ROUTE / TRAFFIC STAGING

DATE:	JANUARY 2025
Dwn. M.I.B.	Chk. T.D.
Scale:	AS SHOWN
Des. T.D.	Chk. J.P.
CONTRACT NO.	PW-2025-01
SHEET	3 OF 17
DWG. NO.	02

NOTES:

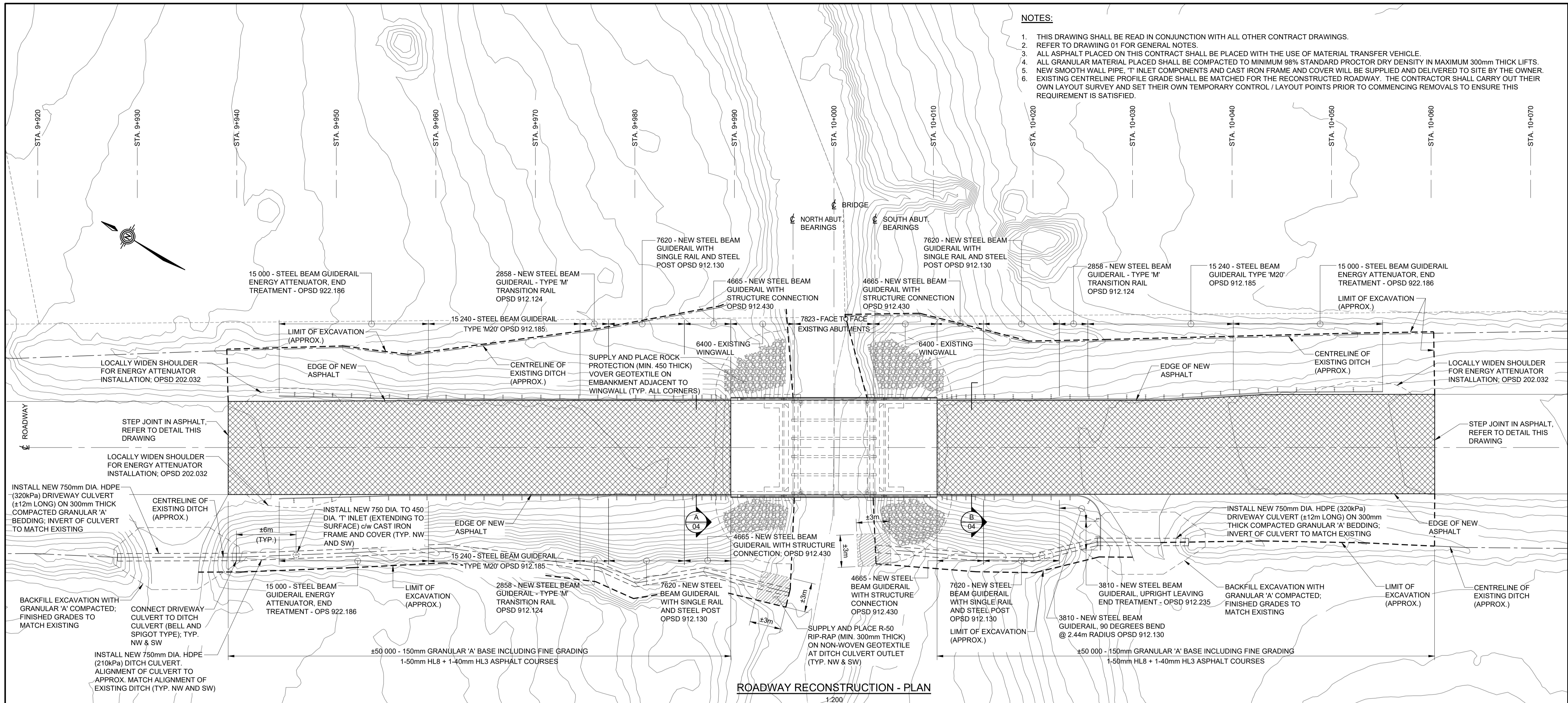
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES.
3. EXCAVATED GRANULAR MATERIAL FROM ROADWAY AND EMBANKMENTS SHALL BE SALVAGED AND STOCKPILED FOR REUSE FOR EMBANKMENT WIDENING.
4. REMOVAL AND REPLACEMENT OF EXISTING DRIVEWAY CULVERTS (AT ENTRANCE #1472 AND #1484) SHALL BE COMPLETED IN ONE CONTINUOUS OPERATION (AT EACH LOCATION) AND SHALL BE COMPLETED WITHIN 1 DAY. CONTRACTOR SHALL COORDINATE WITH THE COUNTIES AND THE PROPERTY OWNER PRIOR TO COMMENCEMENT.
5. EXISTING CENTRELINE PROFILE GRADE SHALL BE MATCHED FOR THE RECONSTRUCTED ROADWAY. THE CONTRACTOR SHALL CARRY OUT THEIR OWN LAYOUT SURVEY AND SET THEIR OWN TEMPORARY CONTROL / LAYOUT POINTS PRIOR TO COMMENCING REMOVALS TO ENSURE THIS REQUIREMENT IS SATISFIED.



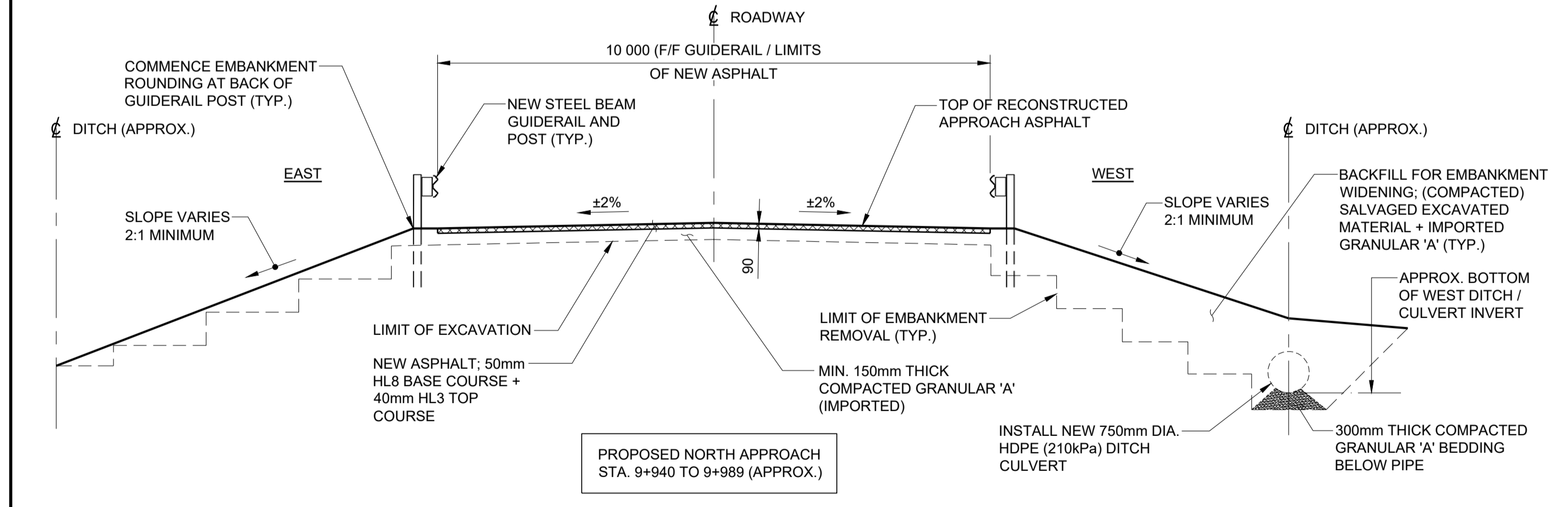
			NO.	REVISION	BY	DATE	CLIENT UNITED COUNTIES OF PRESCOTT & RUSSELL	DATE: JANUARY 2025
			1	ISSUED FOR TENDER	T.D.	15/01/25		Dwn. M.I.B. Chk. T.D.
PROJECT TITLE BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION							Scale: AS SHOWN	Des. T.D. Chk. J.P.
DRAWING TITLE ROADWAY REMOVALS PLAN AND SECTIONS							CONTRACT NO. PW-2025-01	SHEET 4 OF 17
							DWG. NO. 03	

NOTES:

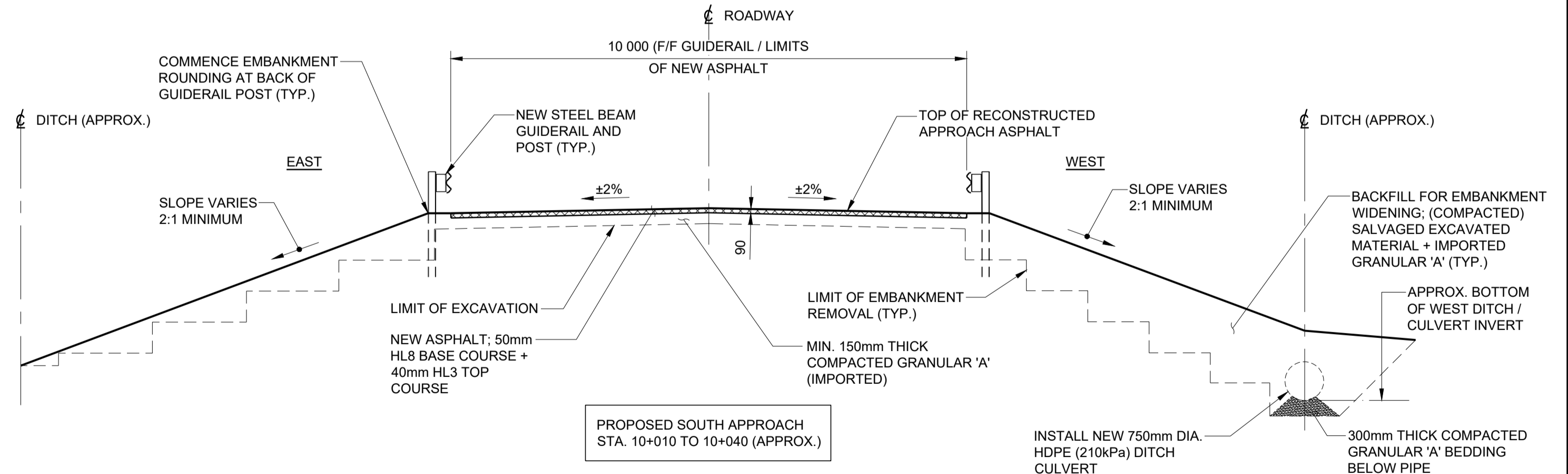
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES.
3. ALL ASPHALT PLACED ON THIS CONTRACT SHALL BE PLACED WITH THE USE OF MATERIAL TRANSFER VEHICLE.
4. ALL GRANULAR MATERIAL PLACED SHALL BE COMPACTED TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY IN MAXIMUM 300mm THICK LIFTS.
5. NEW SMOOTH WALL PIPE, 'T' INLET COMPONENTS AND CAST IRON FRAME AND COVER WILL BE SUPPLIED AND DELIVERED TO SITE BY THE OWNER.
6. EXISTING CENTRELINE PROFILE GRADE SHALL BE MATCHED FOR THE RECONSTRUCTED ROADWAY. THE CONTRACTOR SHALL CARRY OUT THEIR OWN LAYOUT SURVEY AND SET THEIR OWN TEMPORARY CONTROL / LAYOUT POINTS PRIOR TO COMMENCING REMOVALS TO ENSURE THIS REQUIREMENT IS SATISFIED.



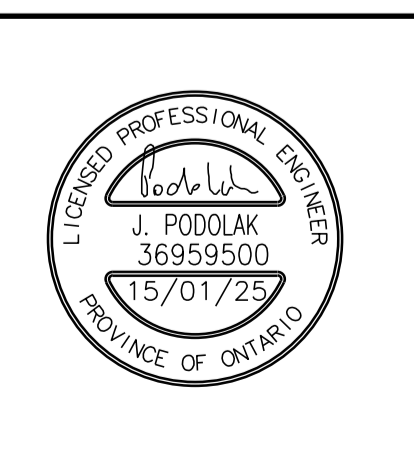
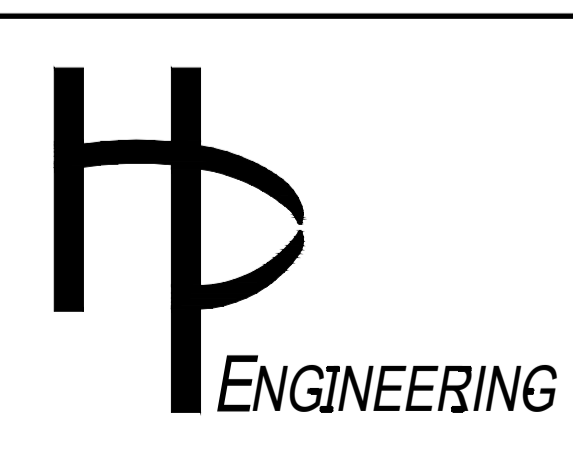
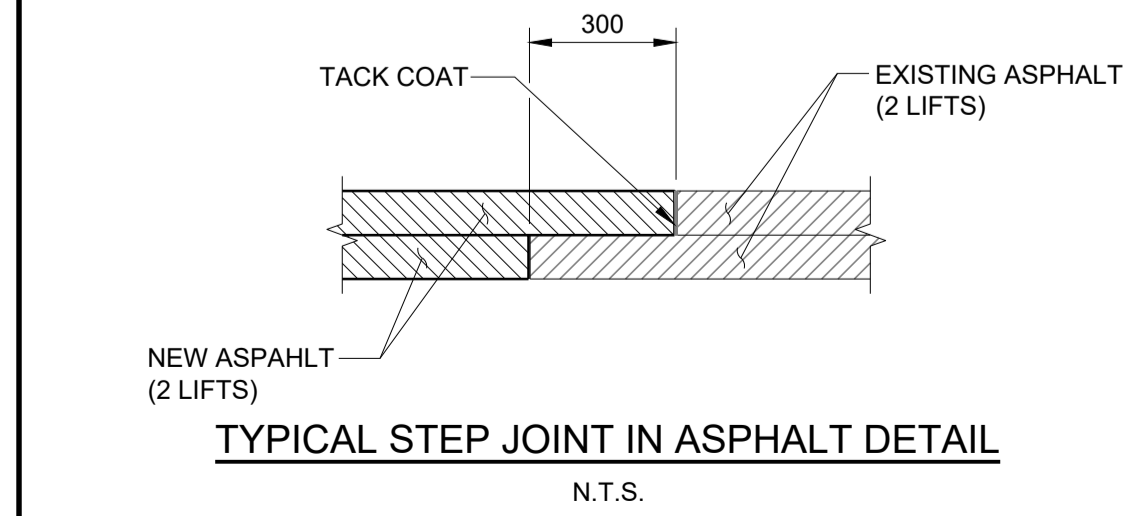
ROADWAY RECONSTRUCTION - PLAN
1:200



SECTION A
1:75



SECTION B
1:75

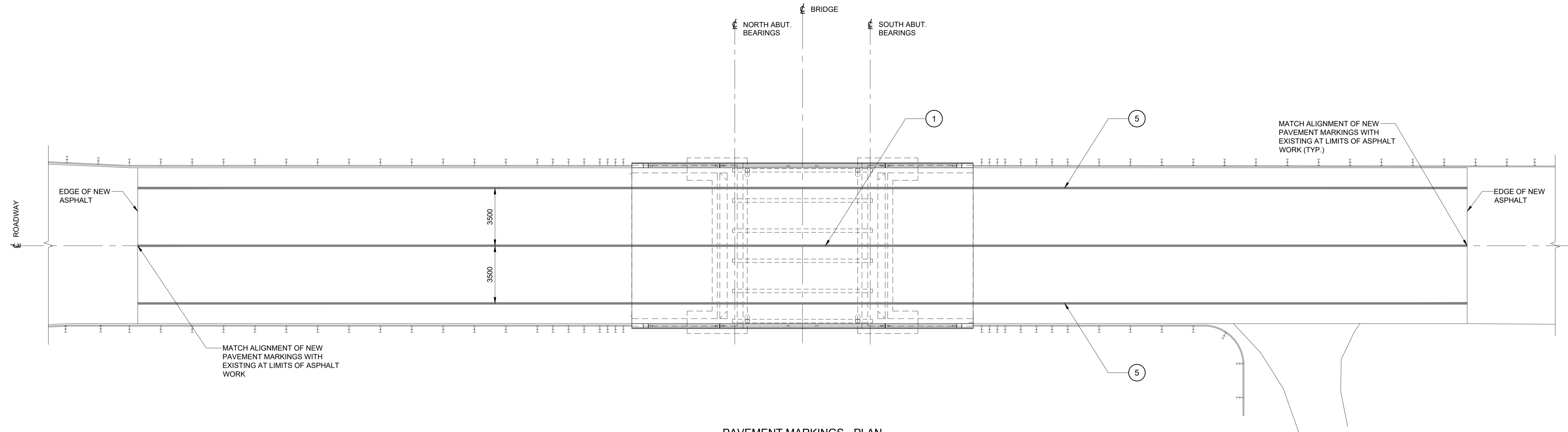


NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT UNITED COUNTIES OF PRESCOTT & RUSSELL		DATE: JANUARY 2025
PROJECT TITLE BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION		Dwn. M.I.B. Chk. T.D.
DRAWING TITLE ROADWAY RECONSTRUCTION PLAN AND SECTIONS		Scale: AS SHOWN
		Des. T.D. Chk. J.P.
		CONTRACT NO. PW-2025-01
		SHEET 5 OF 17
		DWG. NO. 04

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
3. ALL PAVEMENT MARKINGS SHALL BE APPLIED FROM LIMITS OF NEW ASPHALT ON APPROACHES.



PAVEMENT MARKINGS - PLAN

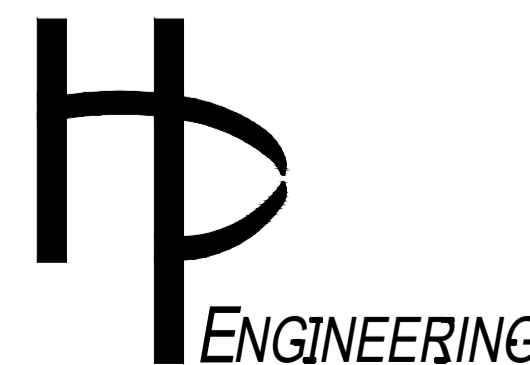
1:125

1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
]	LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line, 3 m gap, 3 m line)
2. Use (1) to Denote PAVEMENT MARKING
3. Use [1] to Denote PAVEMENT MARKING, TEMPORARY
4. Use Δ to Denote PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. Use T to Denote PAVEMENT MARKING, DURABLE

MINISTRY OF TRANSPORTATION ONTARIO DRAWING	Date	1994 04 01	Rev
LEGEND	Issue Date	WP	
PAVEMENT MARKINGS	Issued By	MTOD - 101.070	



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

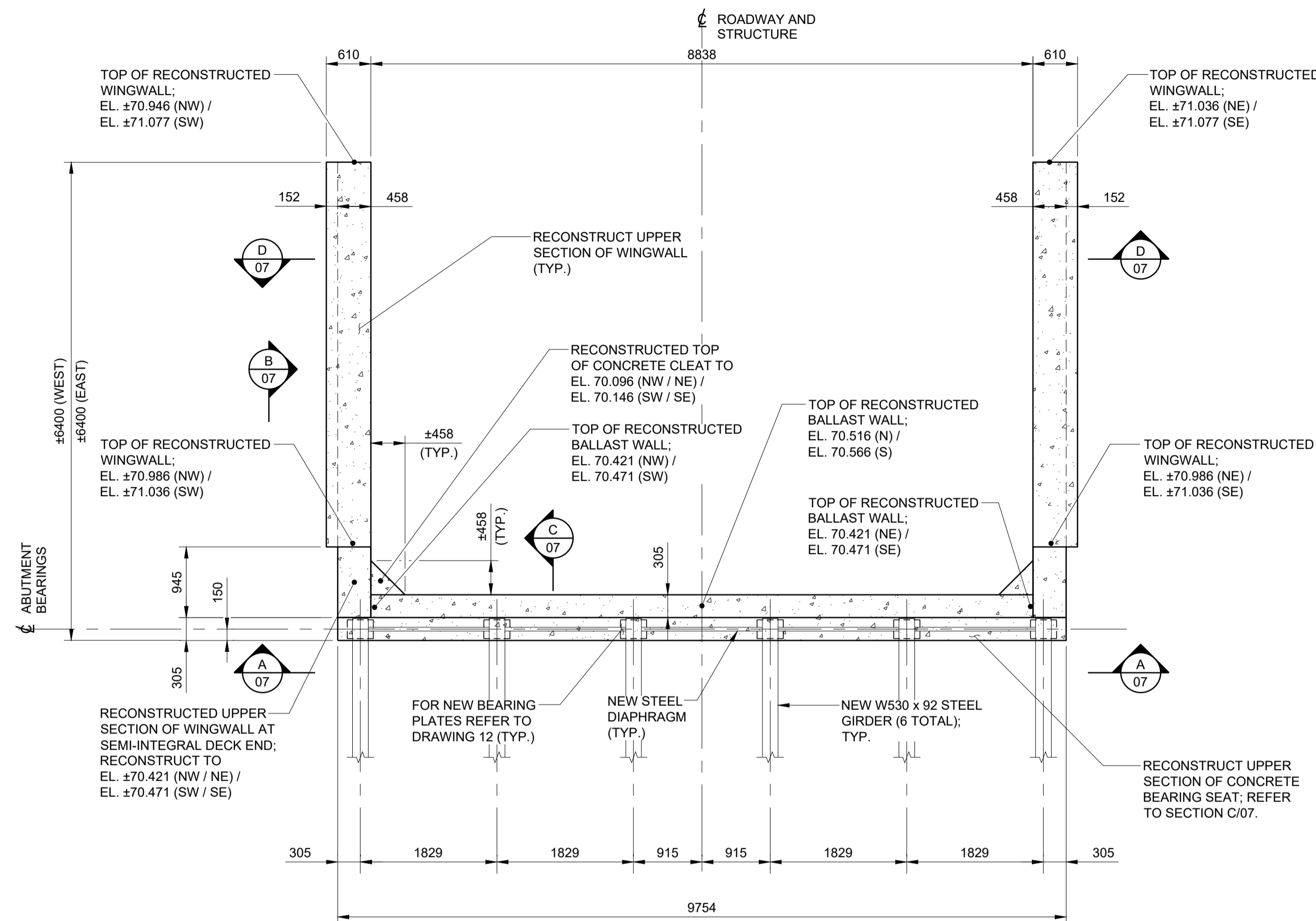
CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL	DATE:	JANUARY 2025
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION	Dwn.	M.I.B. Chk. T.D.
DRAWING TITLE	PAVEMENT MARKINGS	Scale:	AS SHOWN
		Des.	T.D. Chk. J.P.
		CONTRACT NO.	PW-2025-01
		SHEET	6 OF 17
		DWG. NO.	05

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES.
3. ALL EXISTING CONCRETE SURFACE UPON WHICH NEW CONCRETE IS SPECIFIED TO BE PLACED SHALL BE ABRASIVE BLAST CLEAN AND PRE-WET 24. 12. 1 HOUR AND IMMEDIATELY PRIOR TO PLACEMENT OF NEW CONCRETE.

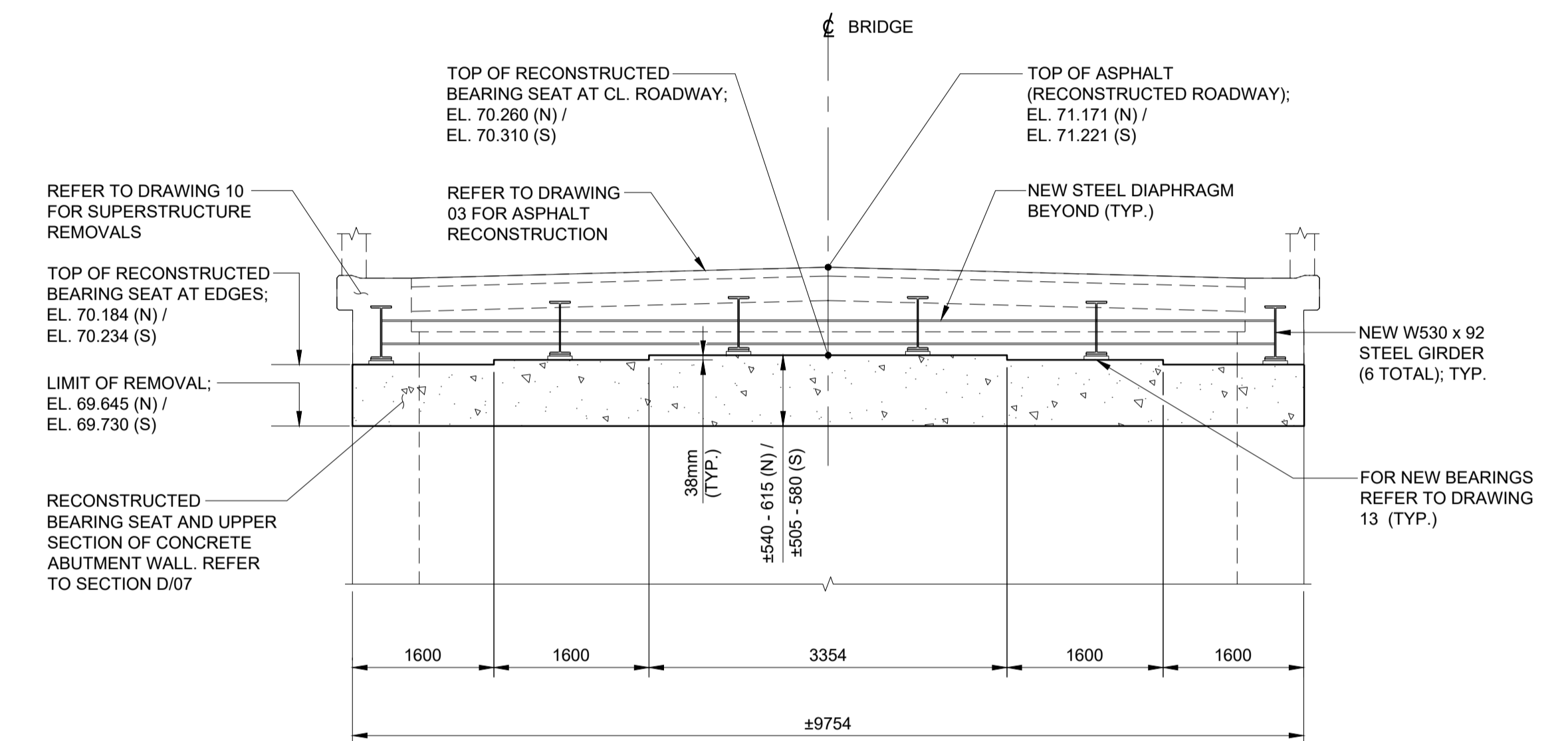
LEGEND

 CONCRETE RECONSTRUCTION



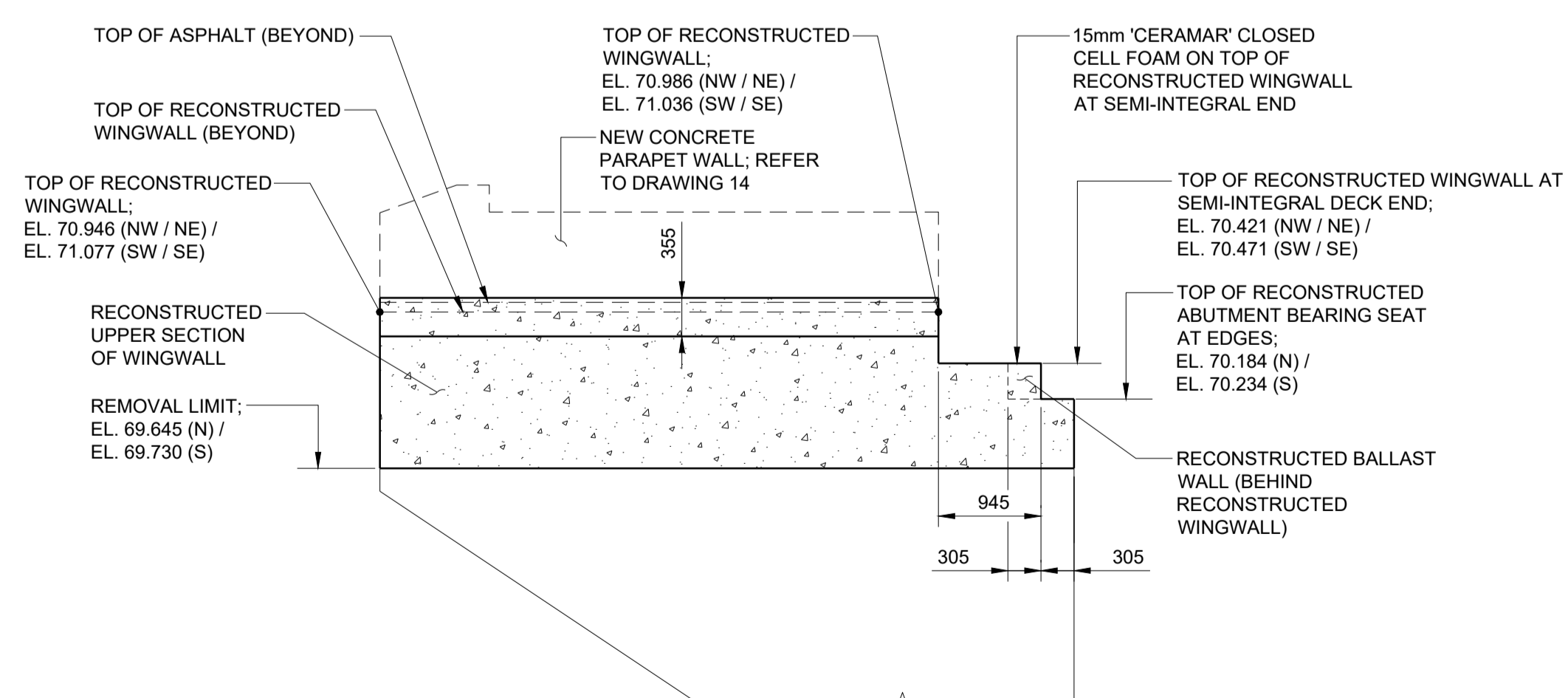
TYPICAL ABUTMENT - RECONSTRUCTION PLAN

1:50



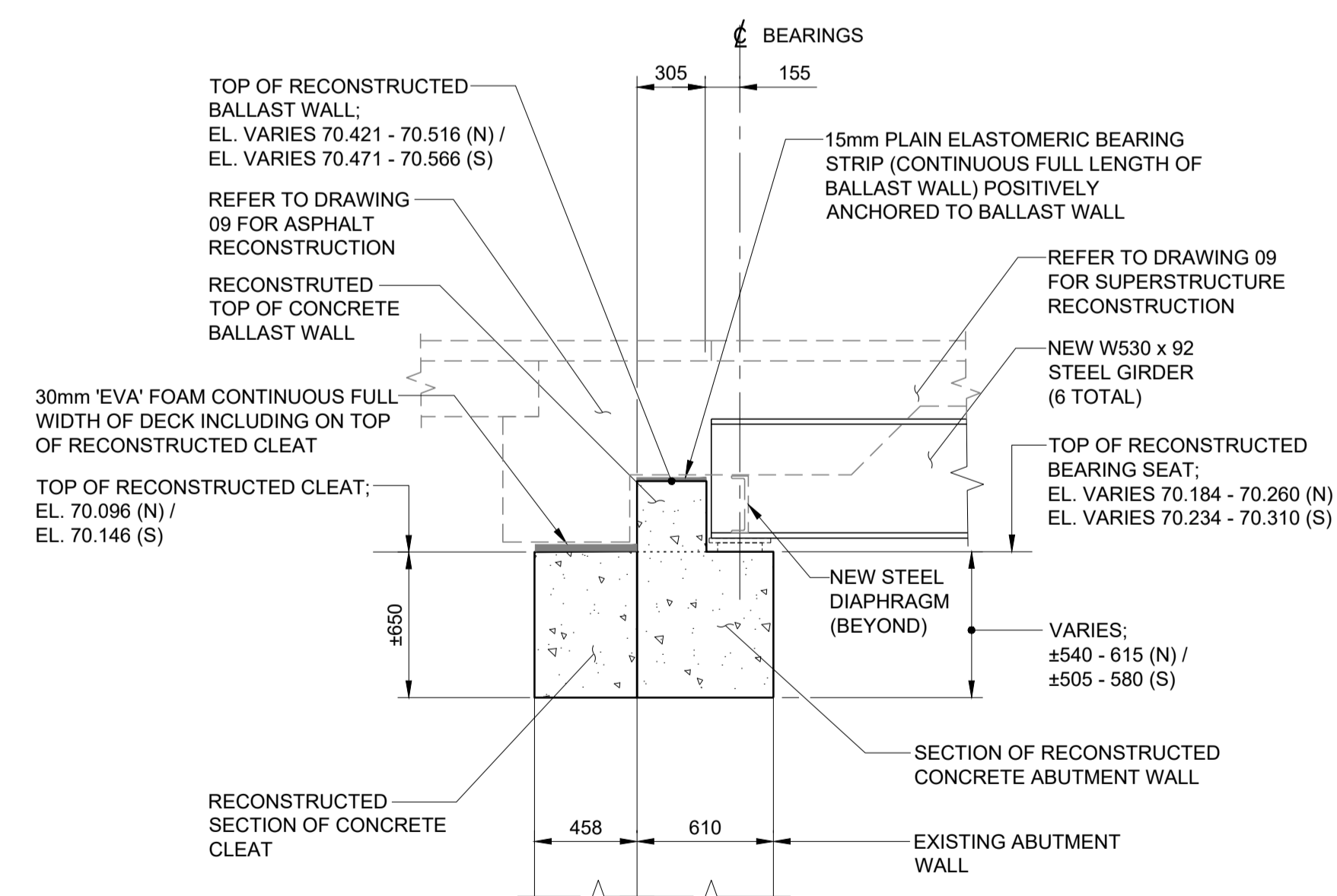
SECTION A 07

1:50



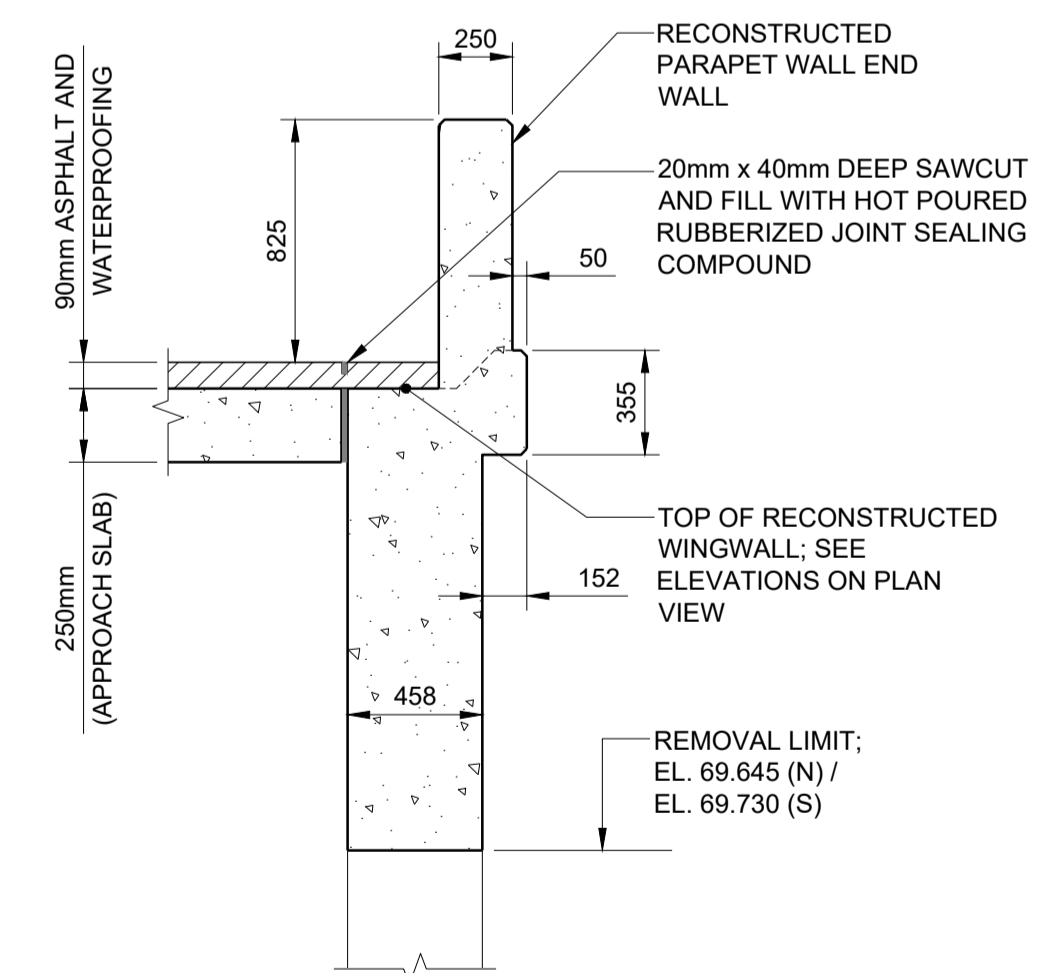
SECTION B 07

1:50



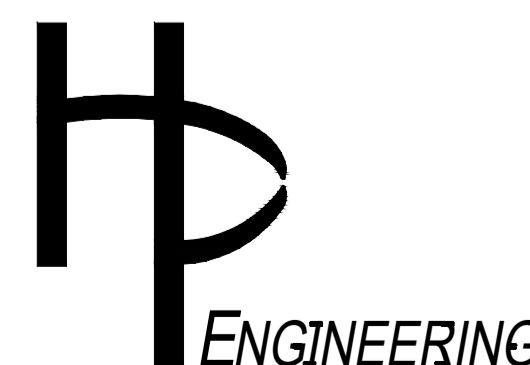
SECTION C 07

1:25



SECTION D 07

1:25



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION
DRAWING TITLE	SUBSTRUCTURE RECONSTRUCTION - DIMENSIONAL

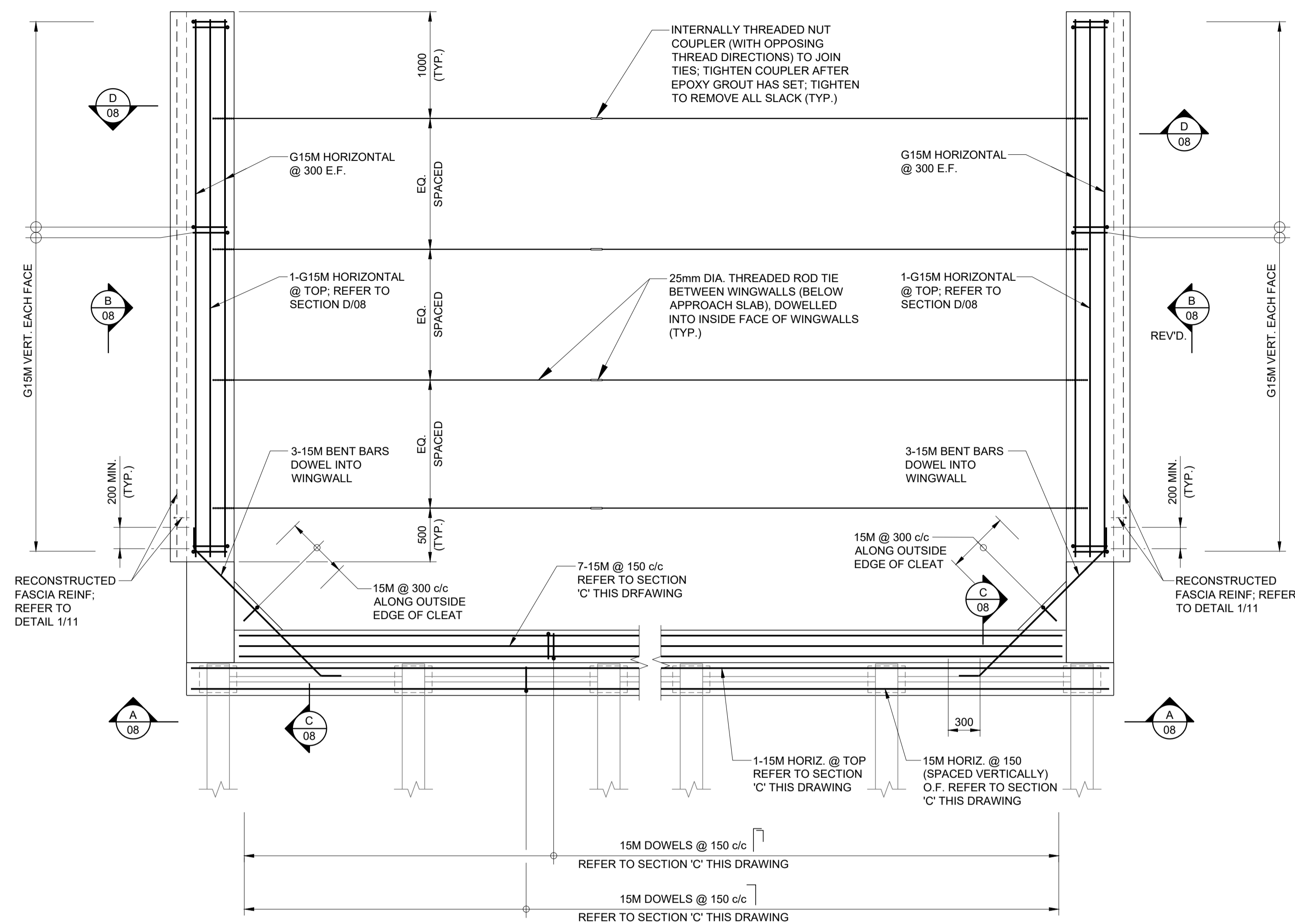
DATE: JANUARY 2025
Dwn. M.I.B. Chk. T.D.
Scale: AS SHOWN
Des. T.D. Chk. J.P.
CONTRACT NO. PW-2025-01
SHEET 08 OF 17
DWG. NO. 07

NOTES:

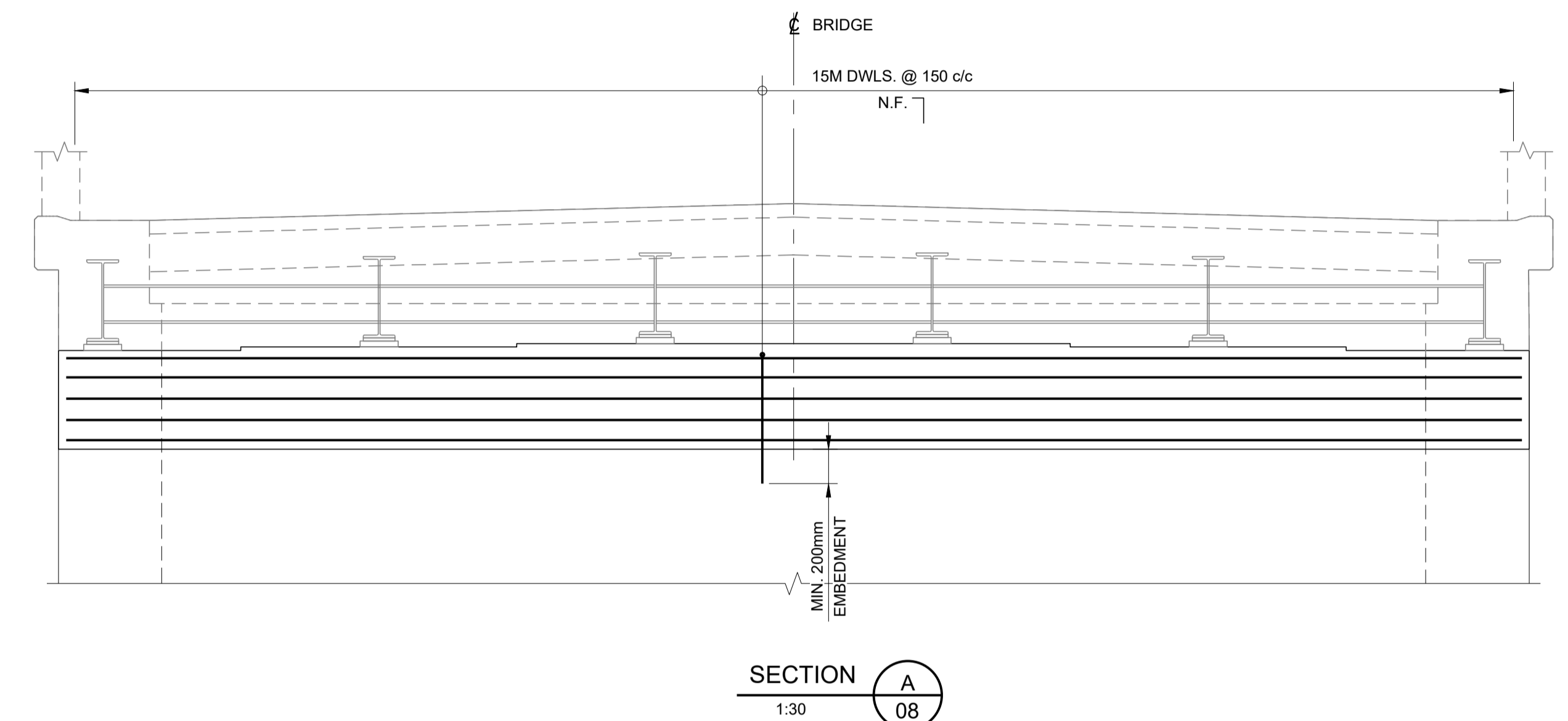
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES.
3. FOR 15M DOWELS, DRILL 20mm DIAMETER HOLE IN CONCRETE (200mm DEEP UNLESS NOTED OTHERWISE), CLEAN HOLE, INJECT EPOXY GROUT (GROUT SHALL BE FROM DSM 9.30.25, AUGUST 2023), AND SET DOWEL. DOWEL INSTALLATION SHALL ALSO FOLLOW EPOXY GROUT MANUFACTURER'S RECOMMENDATIONS.

LEGEND:

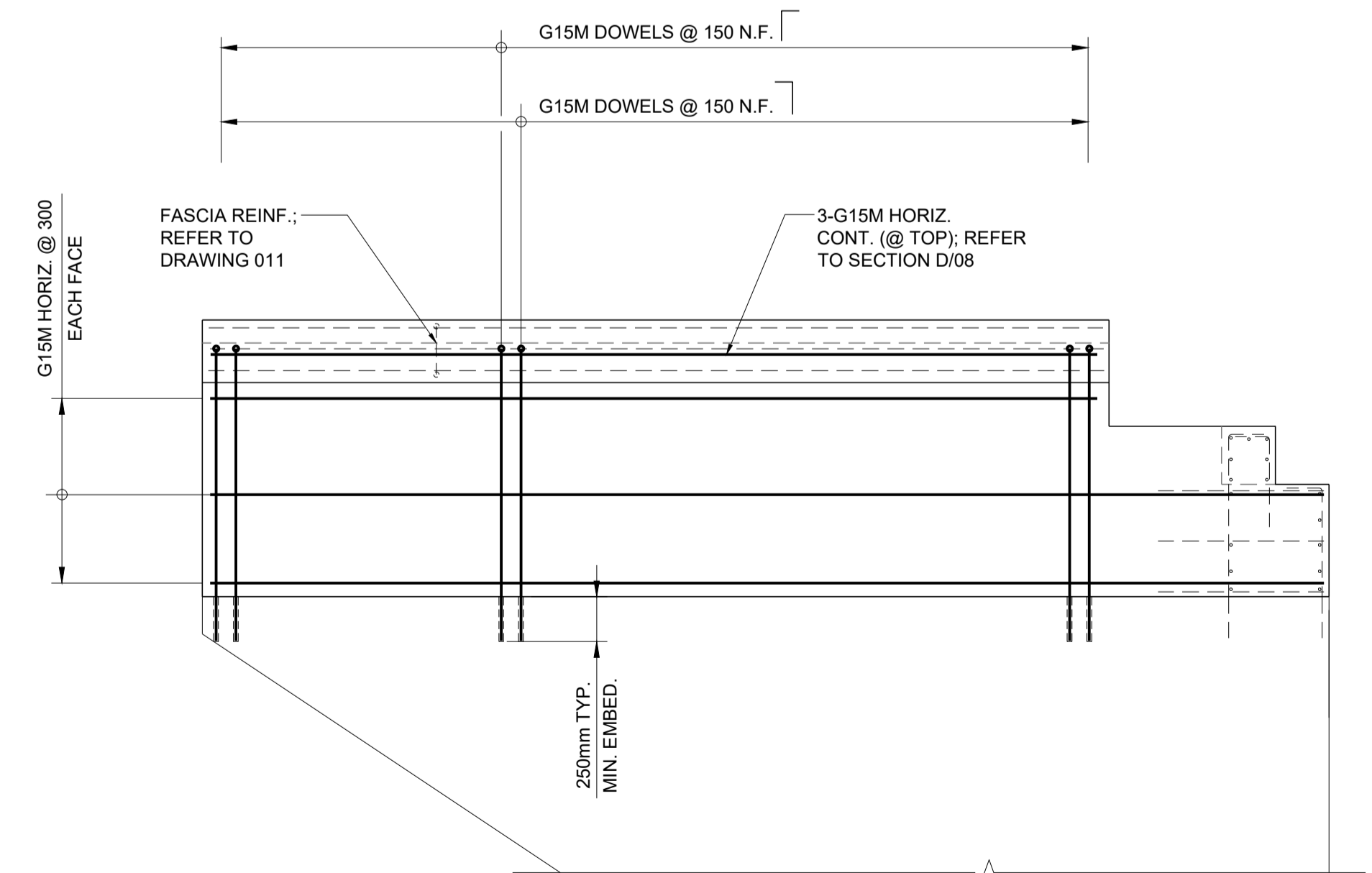
- E.W - EACH WAY
- I.F. - INSIDE FACE
- N.F. - NEAR FACE
- F.F. - FAR FACE
- T.U.L. - TOP UPPER LAYER
- T.L.L. - TOP LOWER LAYER
- B.U.L. - BOTTOM UPPER LAYER
- B.L.L. - BOTTOM LOWER LAYER



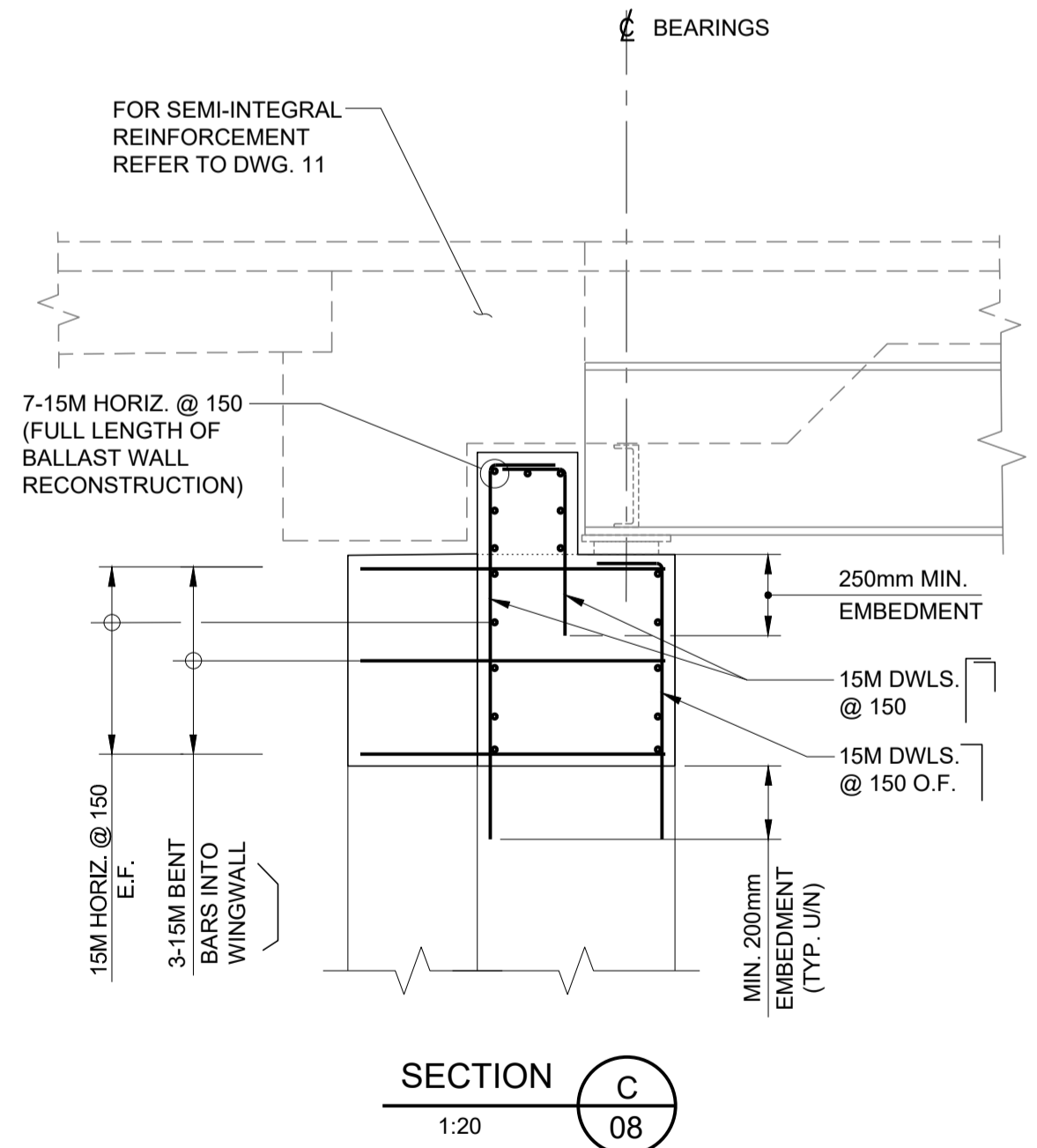
TYPICAL ABUTMENT - REINFORCEMENT PLAN
1:30



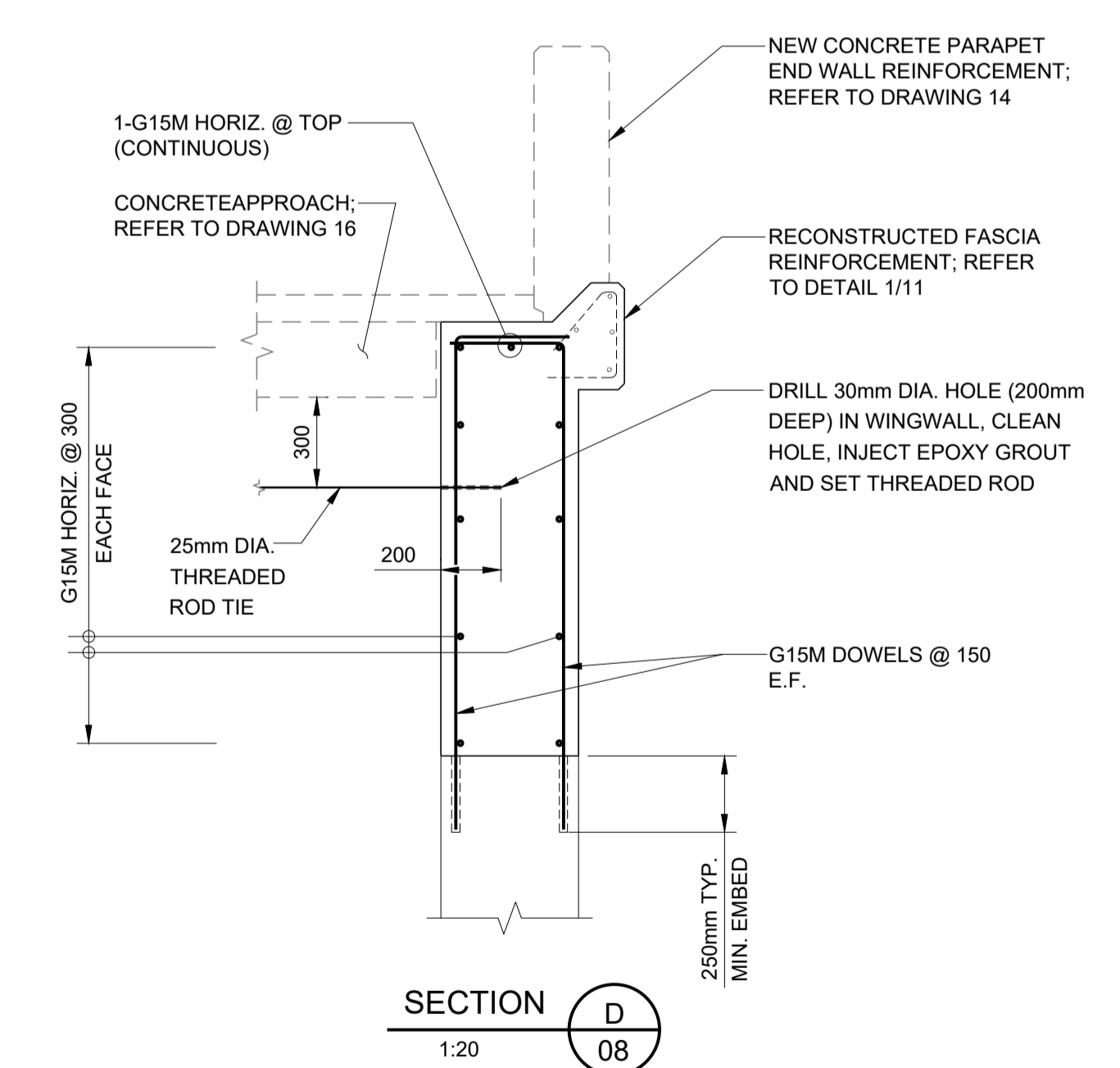
SECTION A
1:30



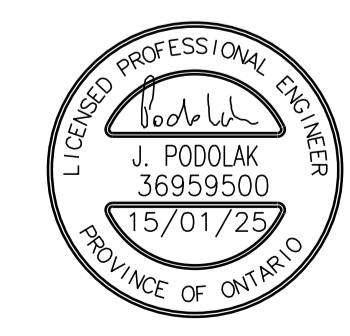
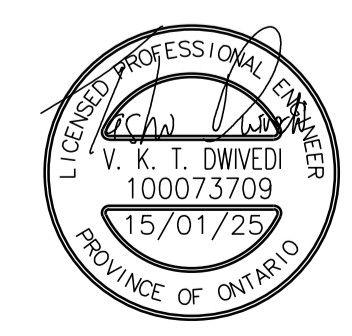
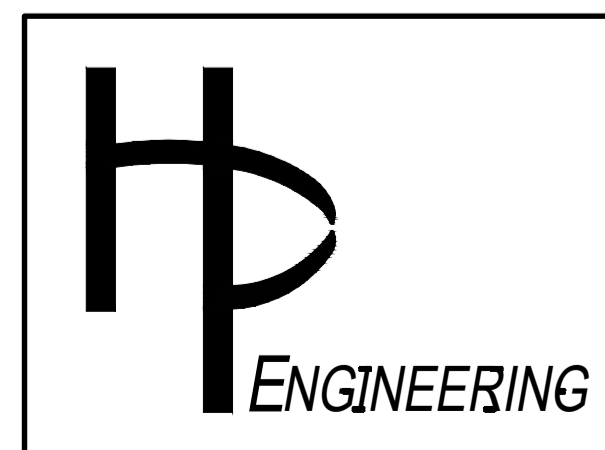
SECTION B
1:30



SECTION C
1:20



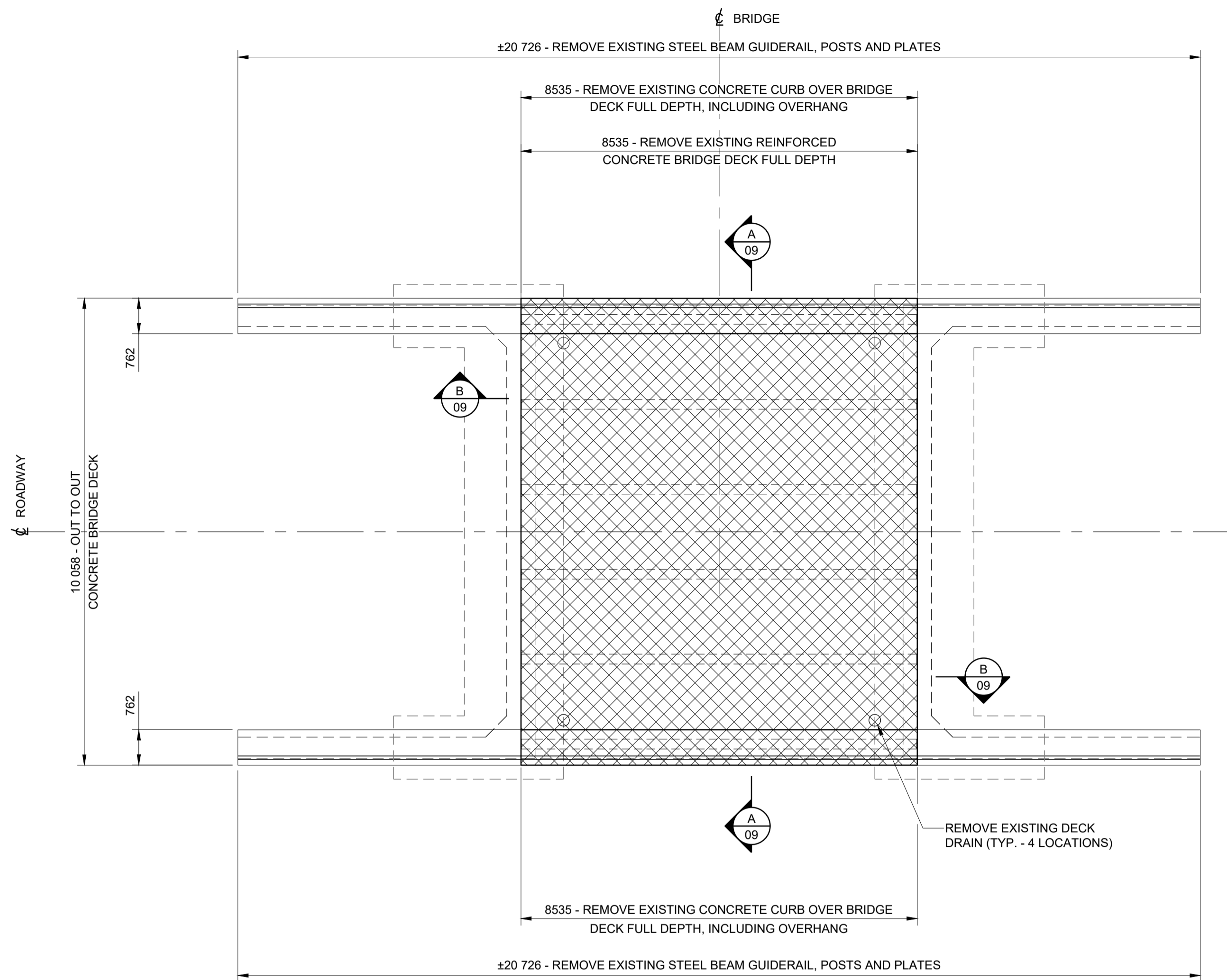
SECTION D
1:20



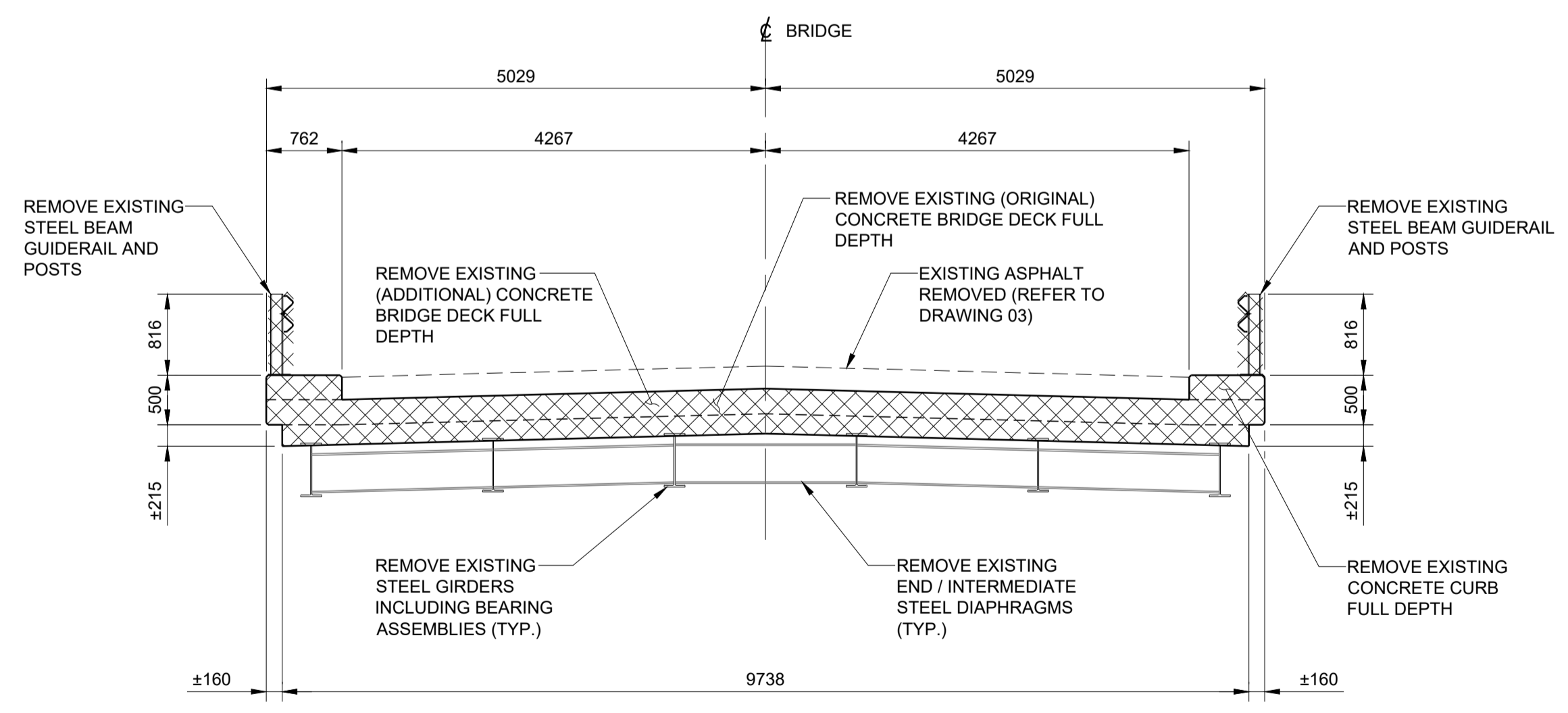
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT: UNITED COUNTIES OF PRESCOTT & RUSSELL
 PROJECT TITLE: BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION
 DRAWING TITLE: SUBSTRUCTURE RECONSTRUCTION - REINFORCING

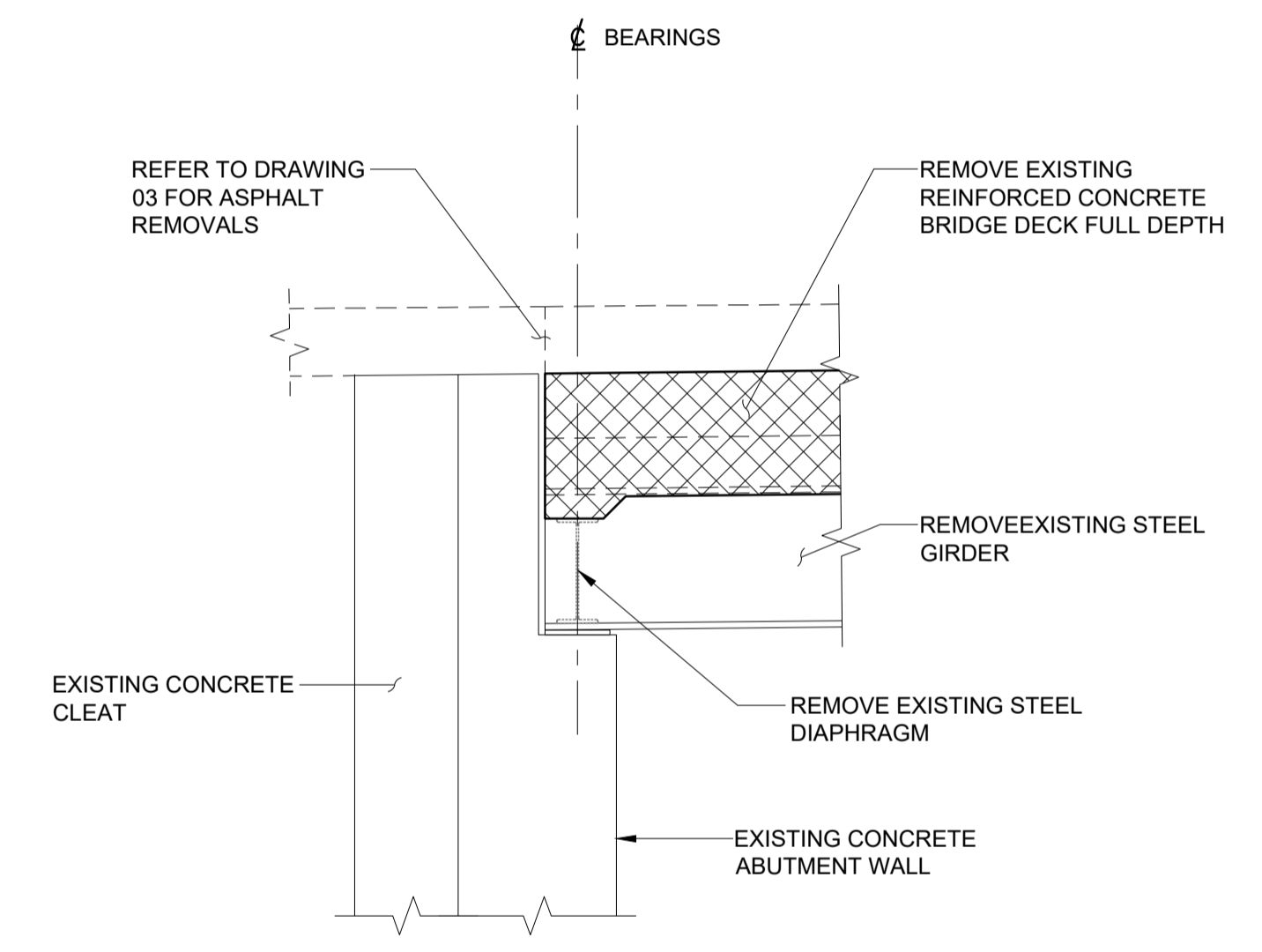
DATE: JANUARY 2025
 Dwn. M.I.B. Chk. T.D.
 Scale: AS SHOWN
 Des. T.D. Chk. J.P.
 CONTRACT NO. PW-2025-01
 SHEET 09 OF 17
 DWG. NO. 08



PLAN
1:75



SECTION A
1:50

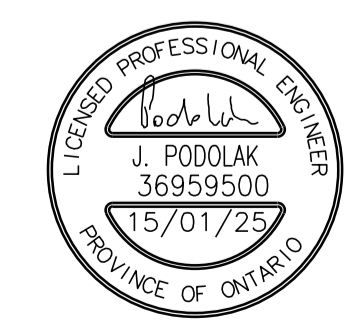
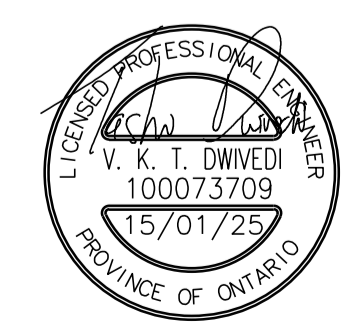
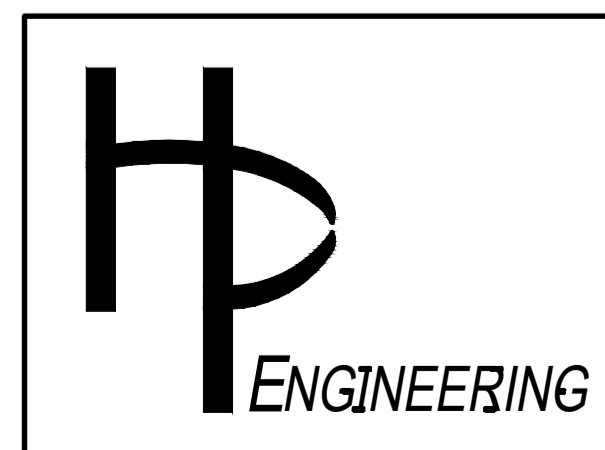
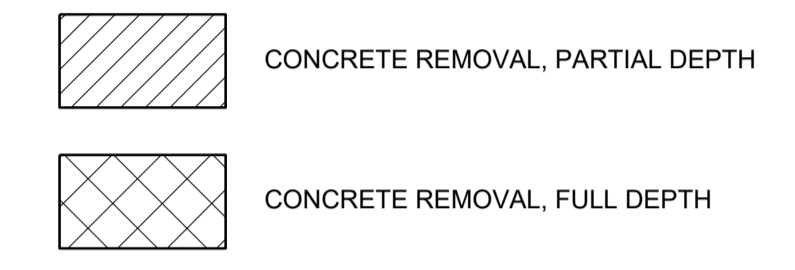


SECTION B
1:25

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
3. ACTUAL LOCATION AND LIMITS OF CONCRETE REMOVALS WILL BE MARKED ON SITE BY CONTRACT ADMINISTRATOR.
4. TOTAL OF 4 DECK DRAINS (2 PER SIDE) TO BE REMOVED.
5. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME THAT THE EXISTING STEEL GIRDERS ARE FITTED WITH SHEAR CONNECTORS FOR COMPOSITE ACTION WITH THE BRIDGE DECK.
6. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME THAT THE EXISTING PAINT COATINGS (EXISTING GIRDERS, DIAPHRAGMS, BEARING ASSEMBLIES, ETC.) CONTAIN LEAD.

LEGEND:

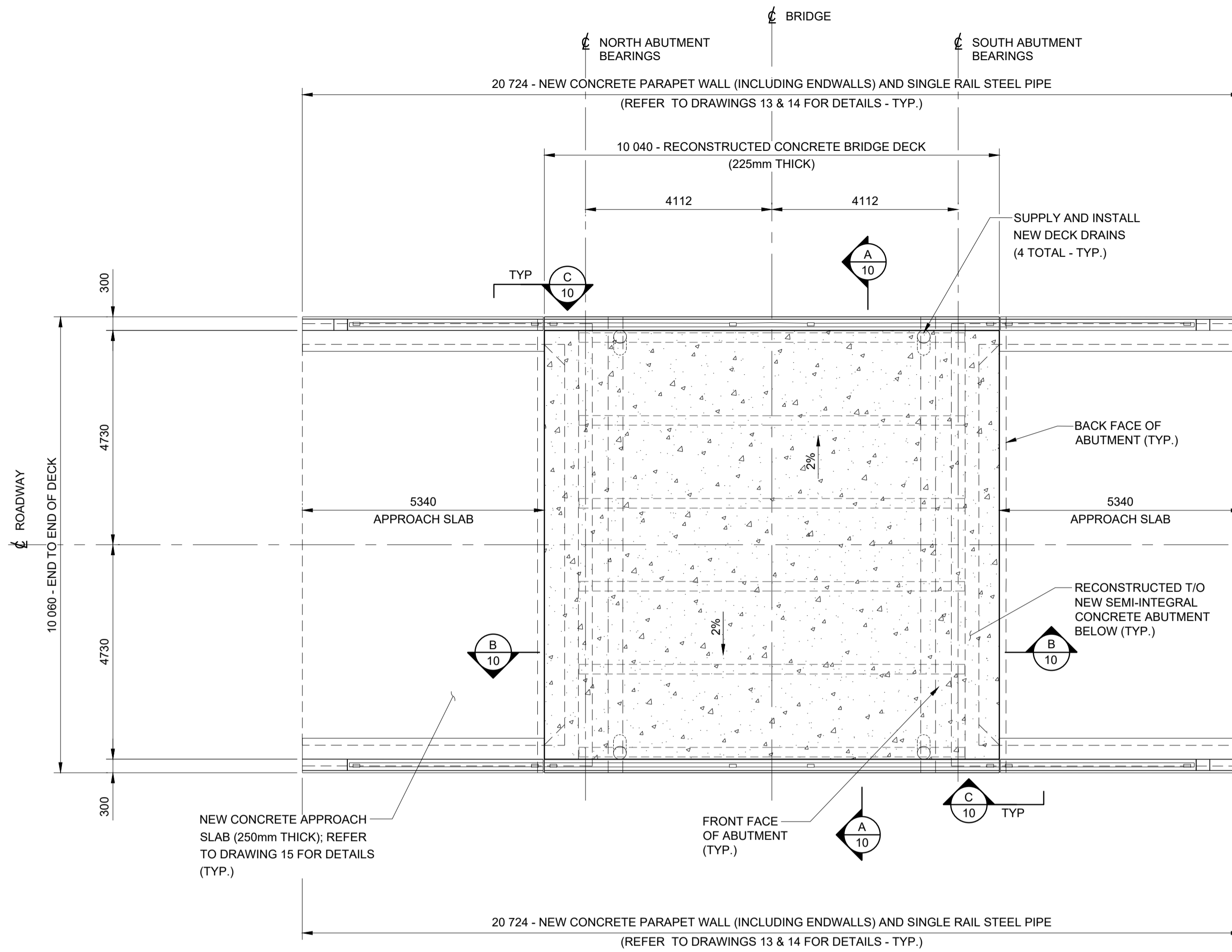


NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

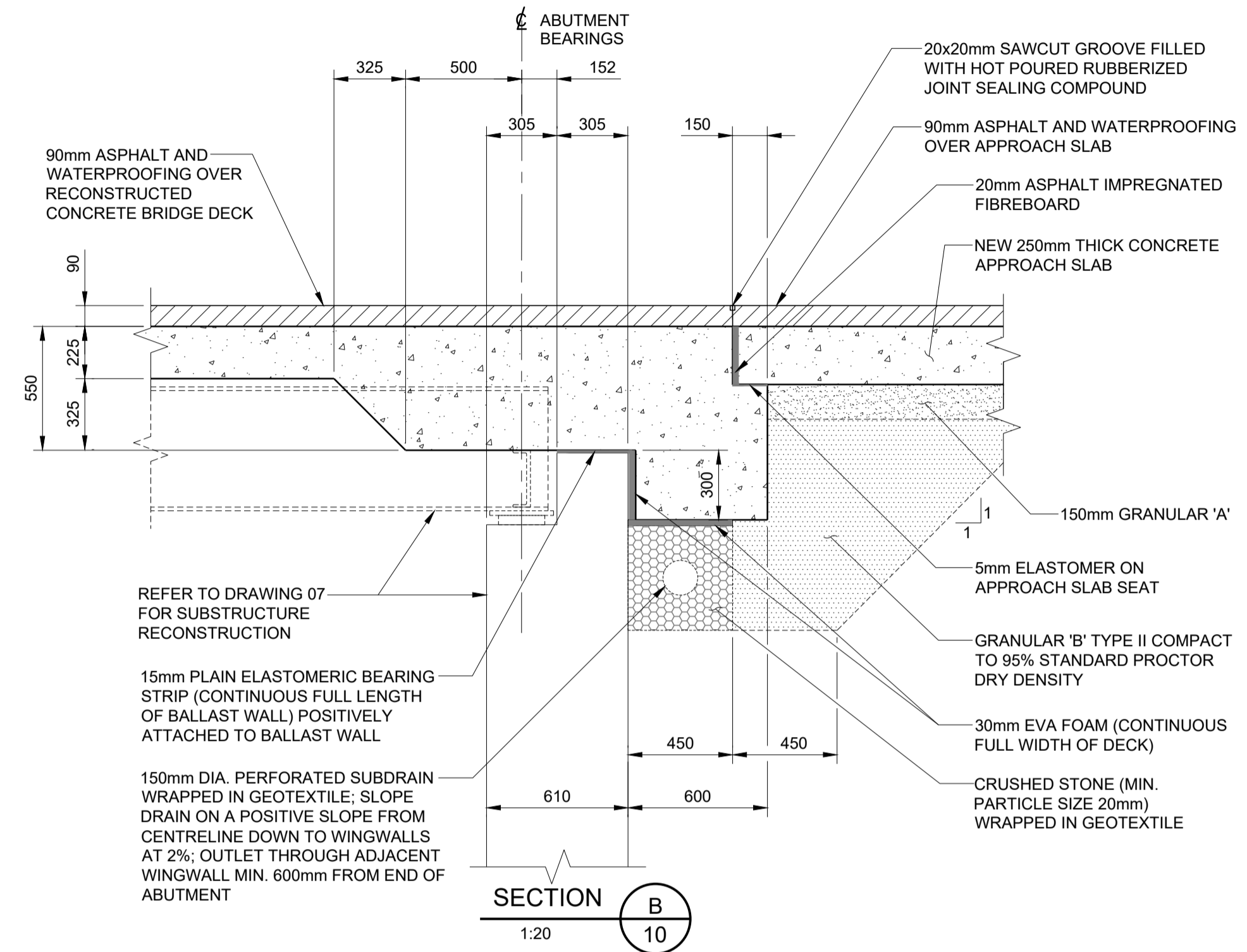
CLIENT		UNITED COUNTIES OF PRESCOTT & RUSSELL		DATE: JANUARY 2025
Dwn.	M.I.B.	Chk.	T.D.	
Scale: AS SHOWN				
PROJECT TITLE		BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION		CONTRACT NO. PW-2025-01
DRAWING TITLE		SUPERSTRUCTURE REMOVALS		SHEET 10 OF 17
				DWG. NO. 09

NOTES:

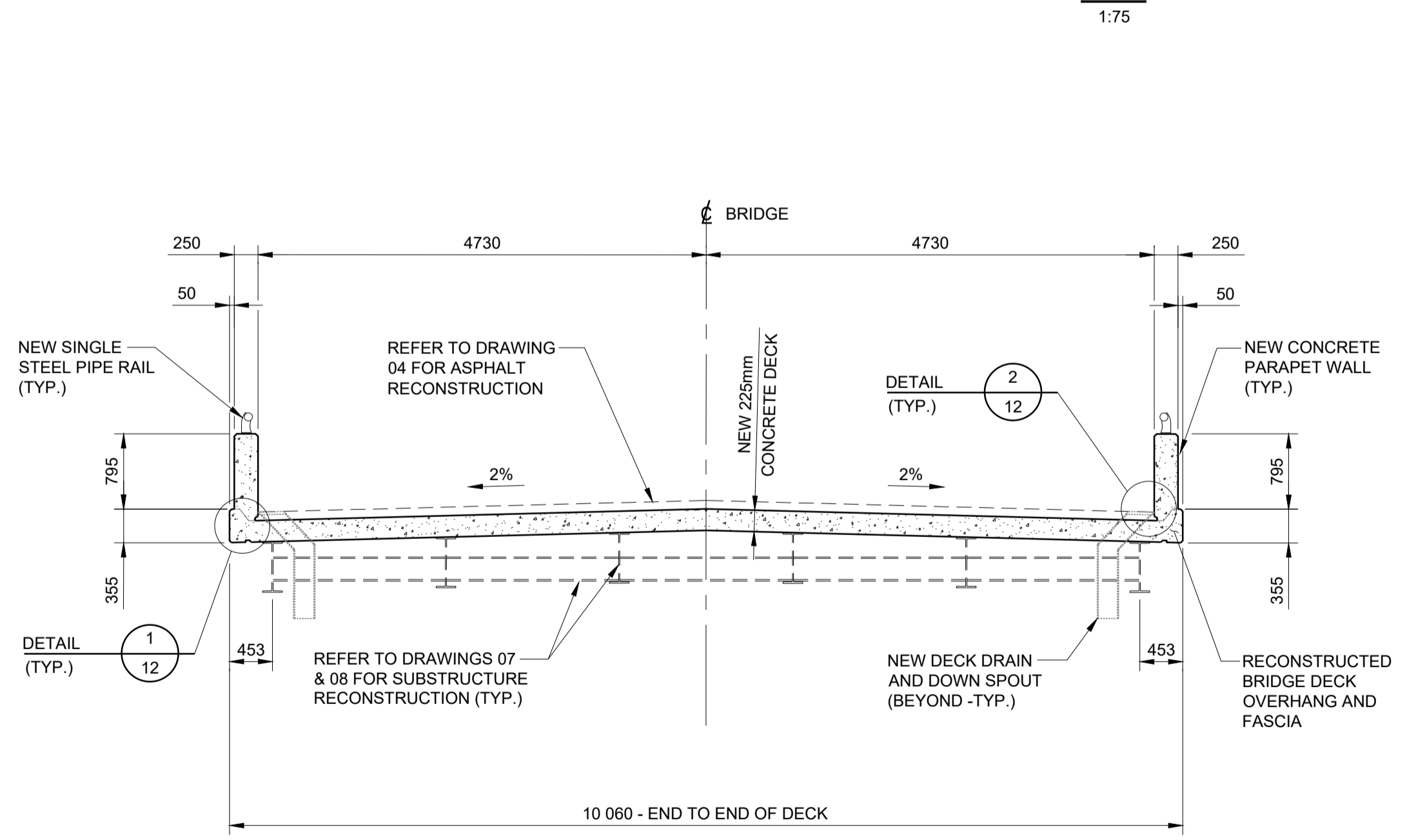
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DWG. 1 FOR GENERAL NOTES AND SCOPE OF WORK.
3. TOTAL OF 4 NEW DECK DRAINS REQUIRED THROUGH OUT CONCRETE DECK.
4. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR THE STABILITY AND SAFETY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL DESIGN, INSTALL, MAINTAIN AND REMOVE ANY AND ALL TEMPORARY BRACING/SHORING AS REQUIRED. THE CONTRACTOR SHALL RETAIN HIS OWN LICENCED PROFESSIONAL ENGINEER FOR THE REVIEW. ALL DRAWINGS FOR SHORING/BRACING AS REQUIRED SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.



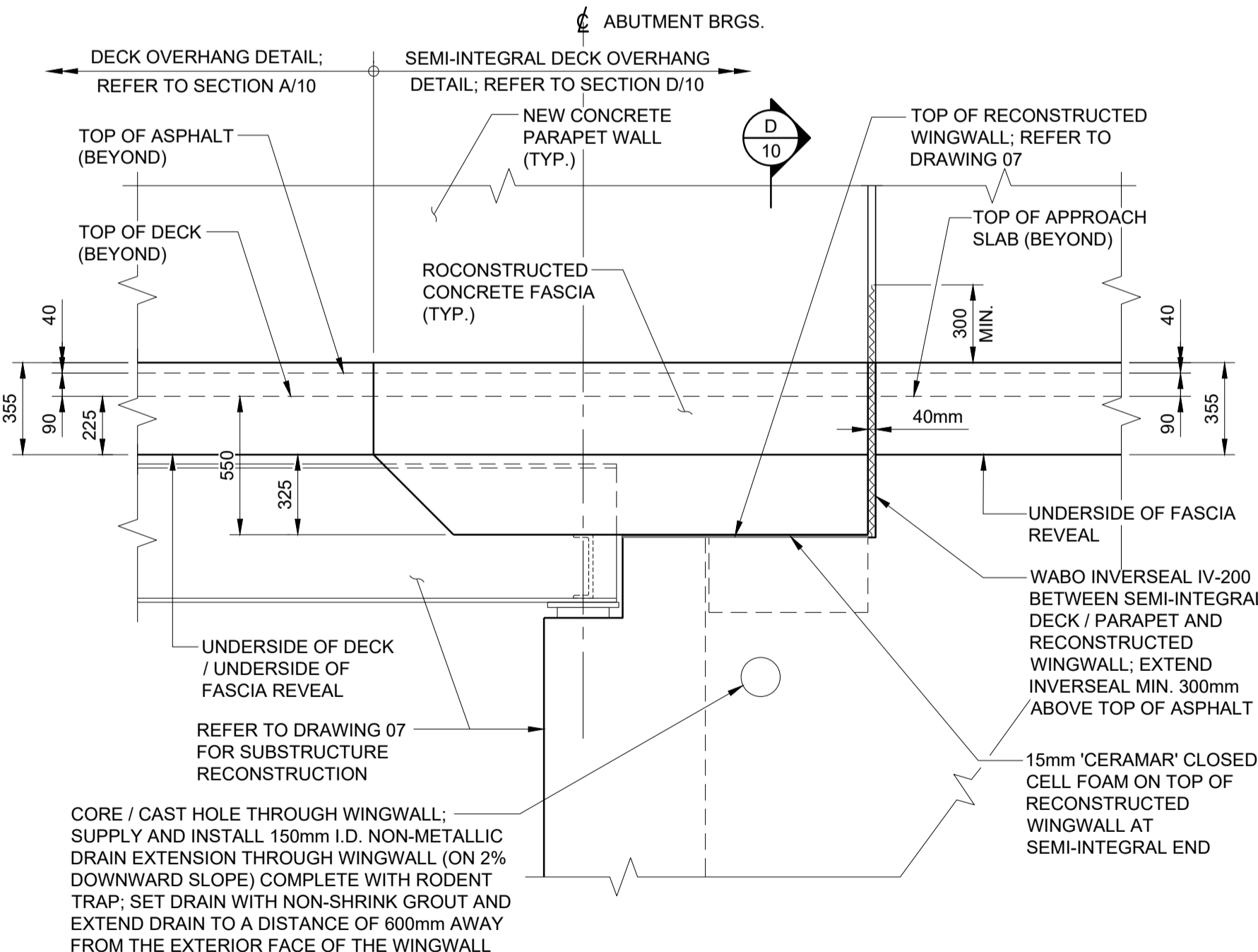
PLAN
1:75



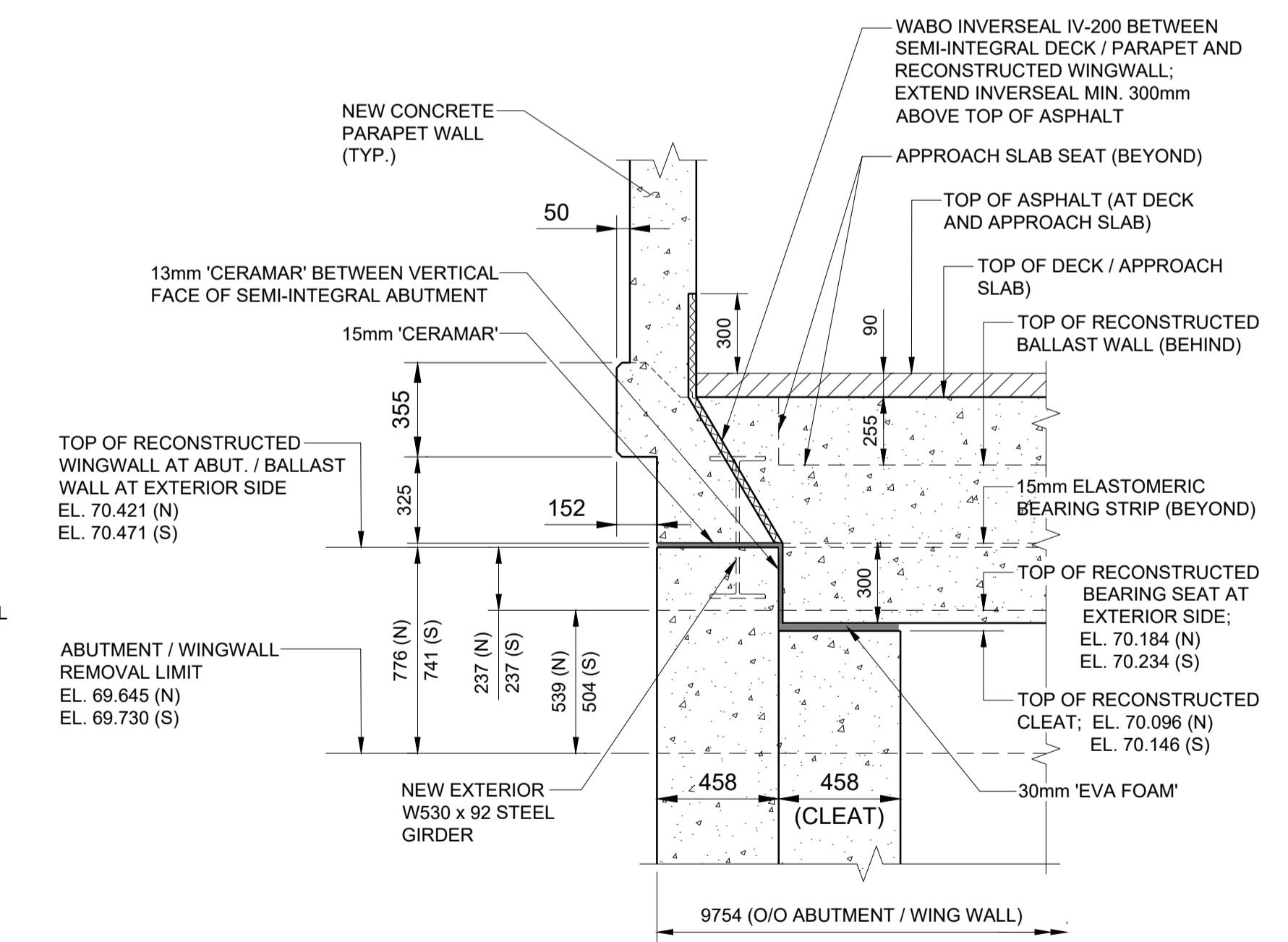
SECTION B
1:20



SECTION A
1:50



ELEVATION C
1:20



SECTION D
1:20

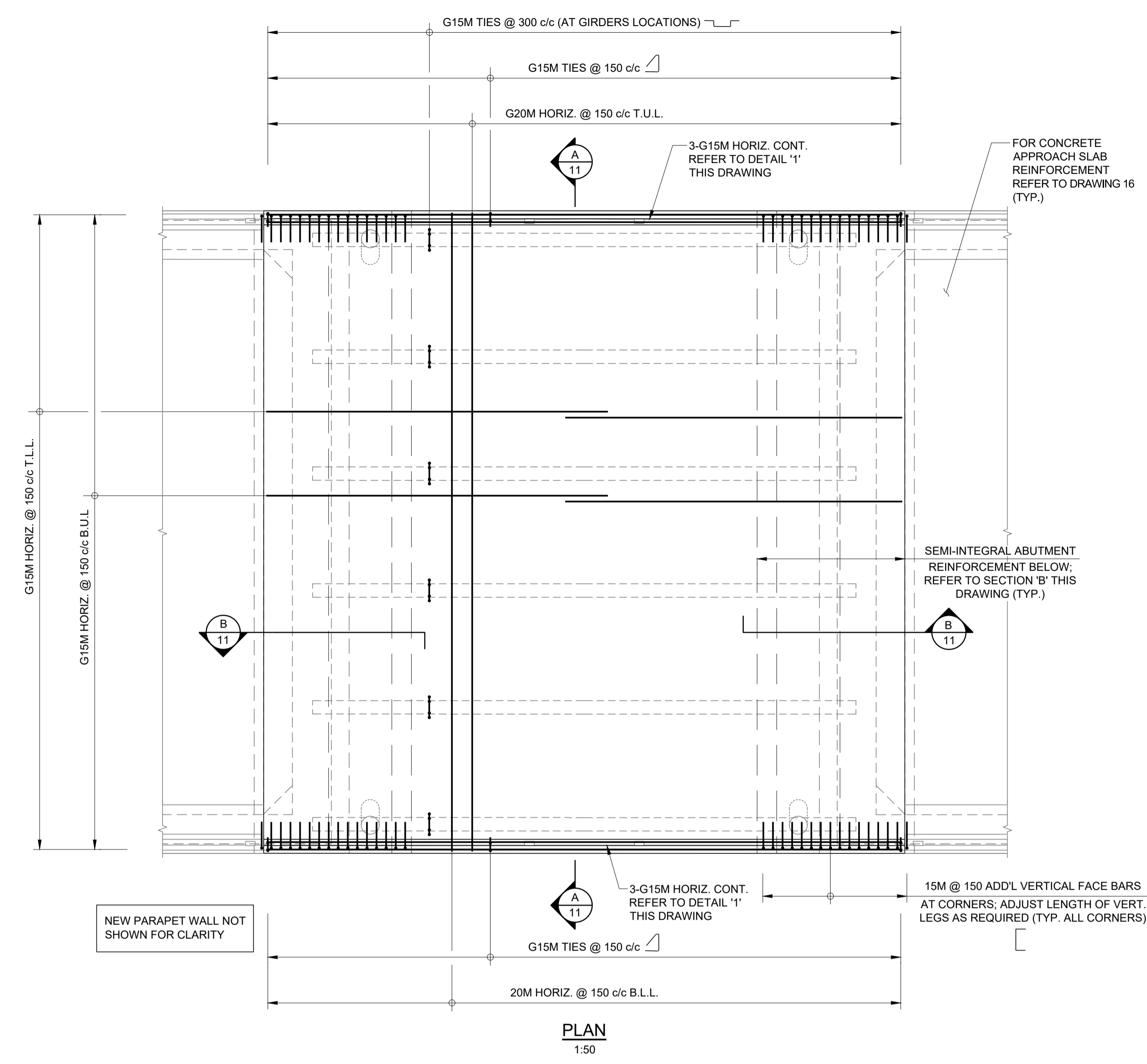
			NO.	REVISION	BY	DATE	CLIENT UNITED COUNTIES OF PRESCOTT & RUSSELL	DATE: JANUARY 2025
			1	ISSUED FOR TENDER	T.D.	15/01/25		Dwn. M.I.B. Chk. T.D.
PROJECT TITLE BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION							Scale: AS SHOWN	Des. T.D. Chk. J.P.
DRAWING TITLE SUPERSTRUCTURE RECONSTRUCTION - DIMENSIONAL							CONTRACT NO. PW-2025-01	SHEET 11 OF 17
							DWG. NO. 10	

NOTES:

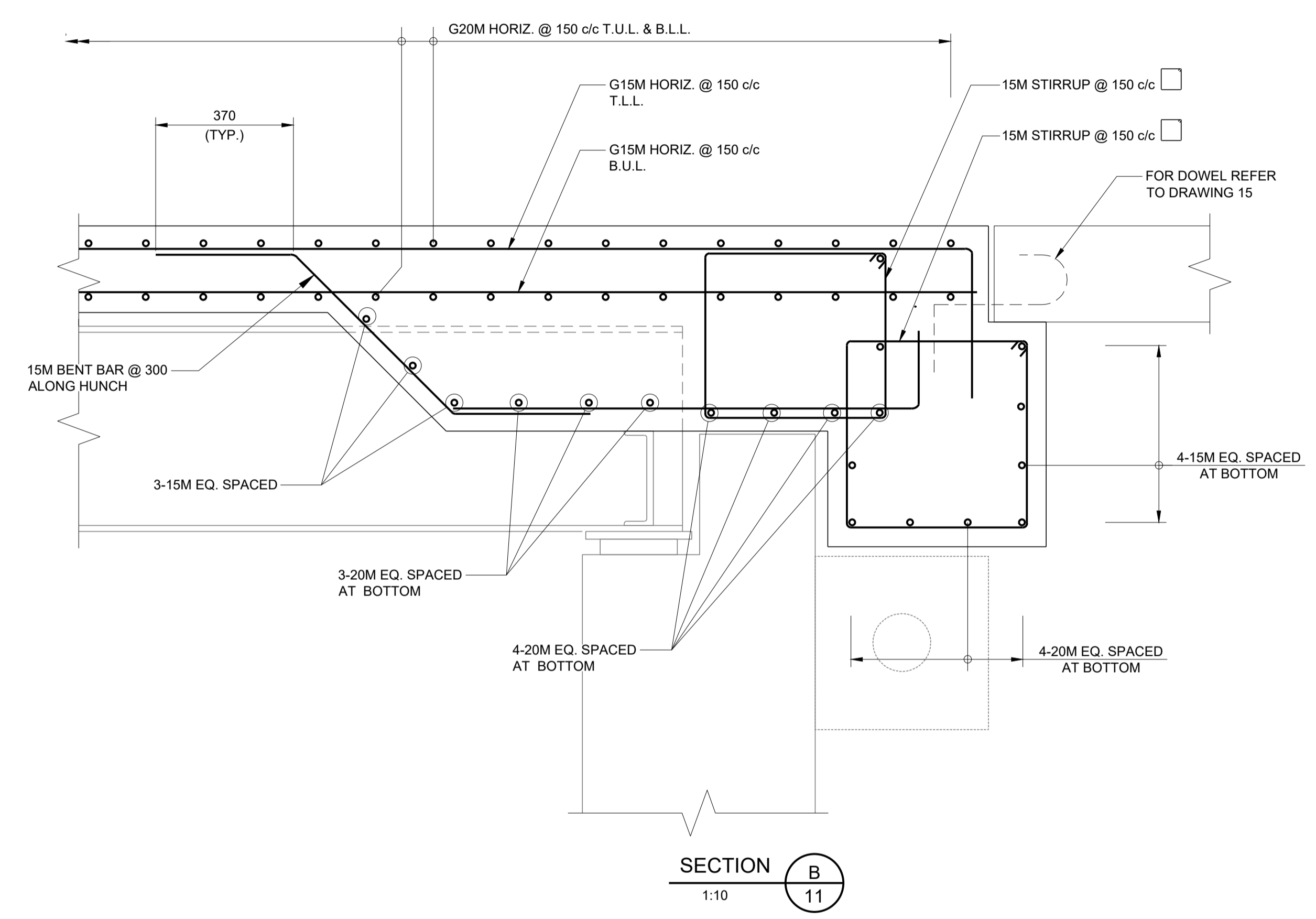
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
- MINIMUM BAR LAP SPLICE SHALL BE 600mm (FOR 15M BARS) AND 800mm (FOR 20M BARS).

LEGEND:

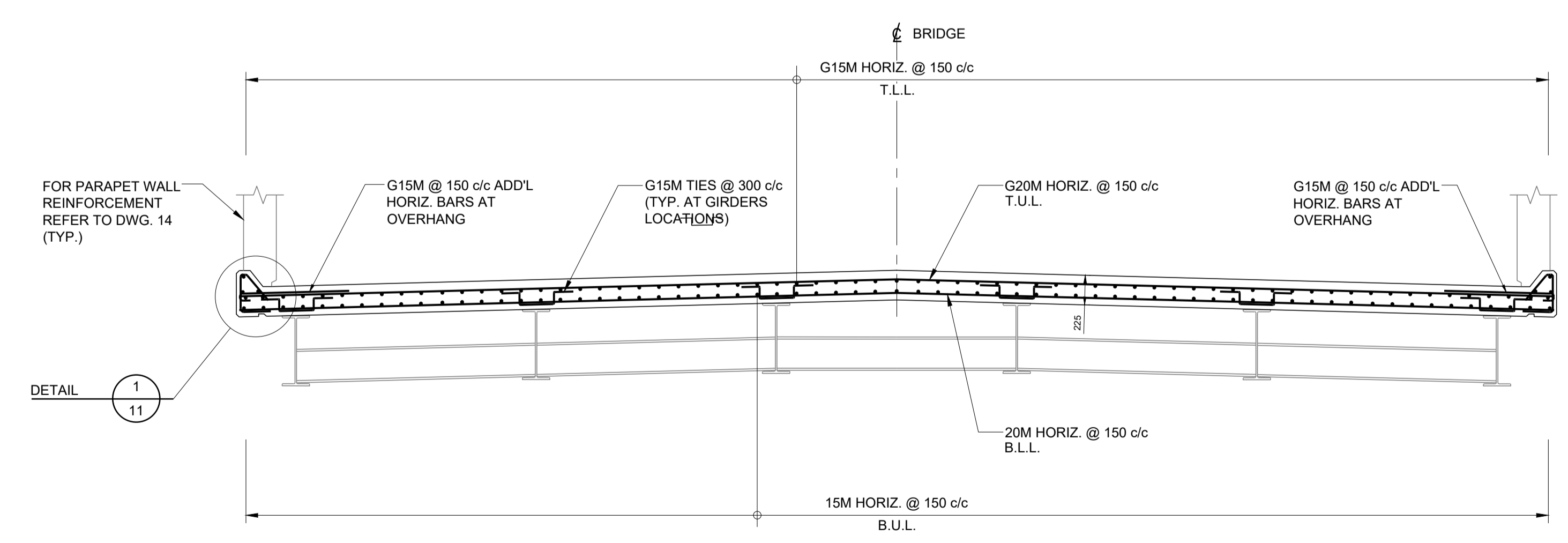
- E.W - EACH WAY
- I.F - INSIDE FACE
- T.U.L - TOP UPPER LAYER
- T.L.L - TOP LOWER LAYER
- B.U.L - BOTTOM UPPER LAYER
- B.L.L - BOTTOM LOWER LAYER



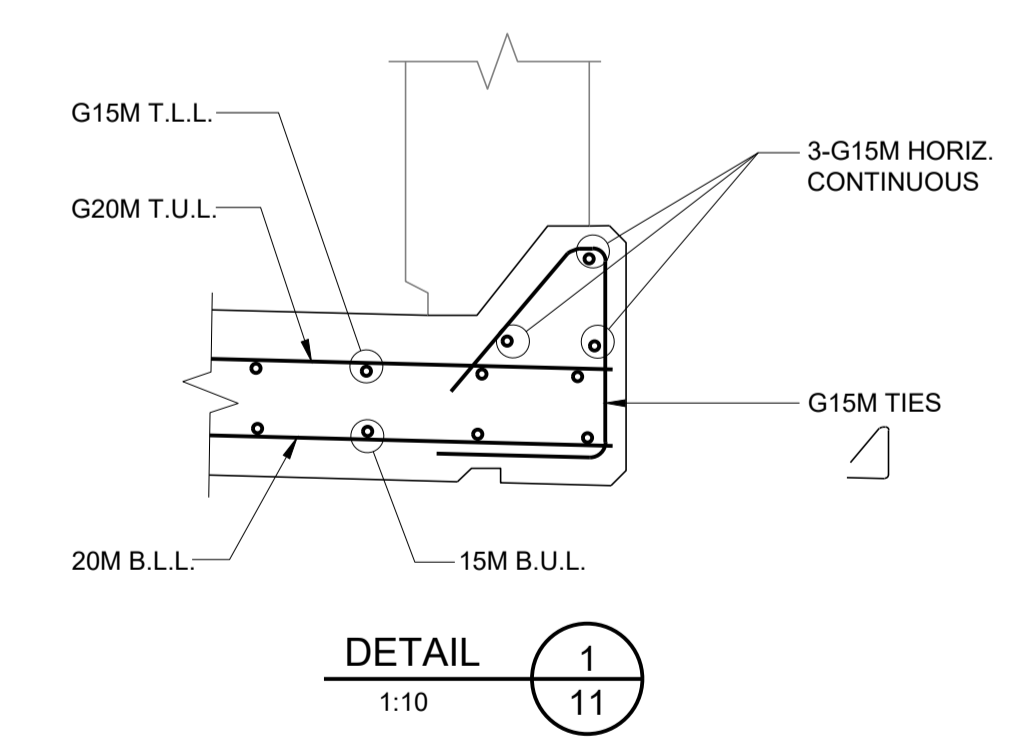
PLAN
1:50



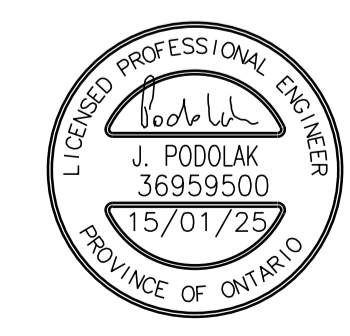
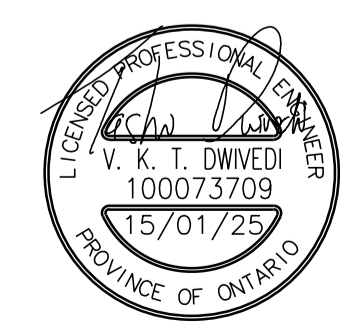
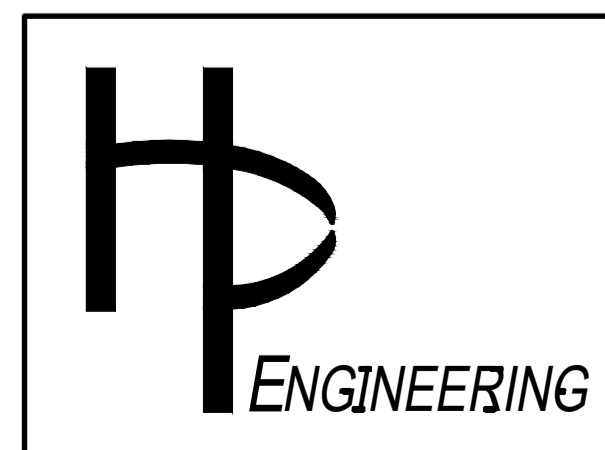
SECTION B
1:10



SECTION A
1:30



DETAIL 1
1:10



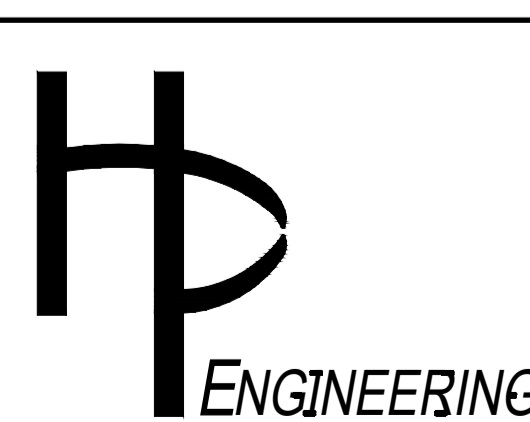
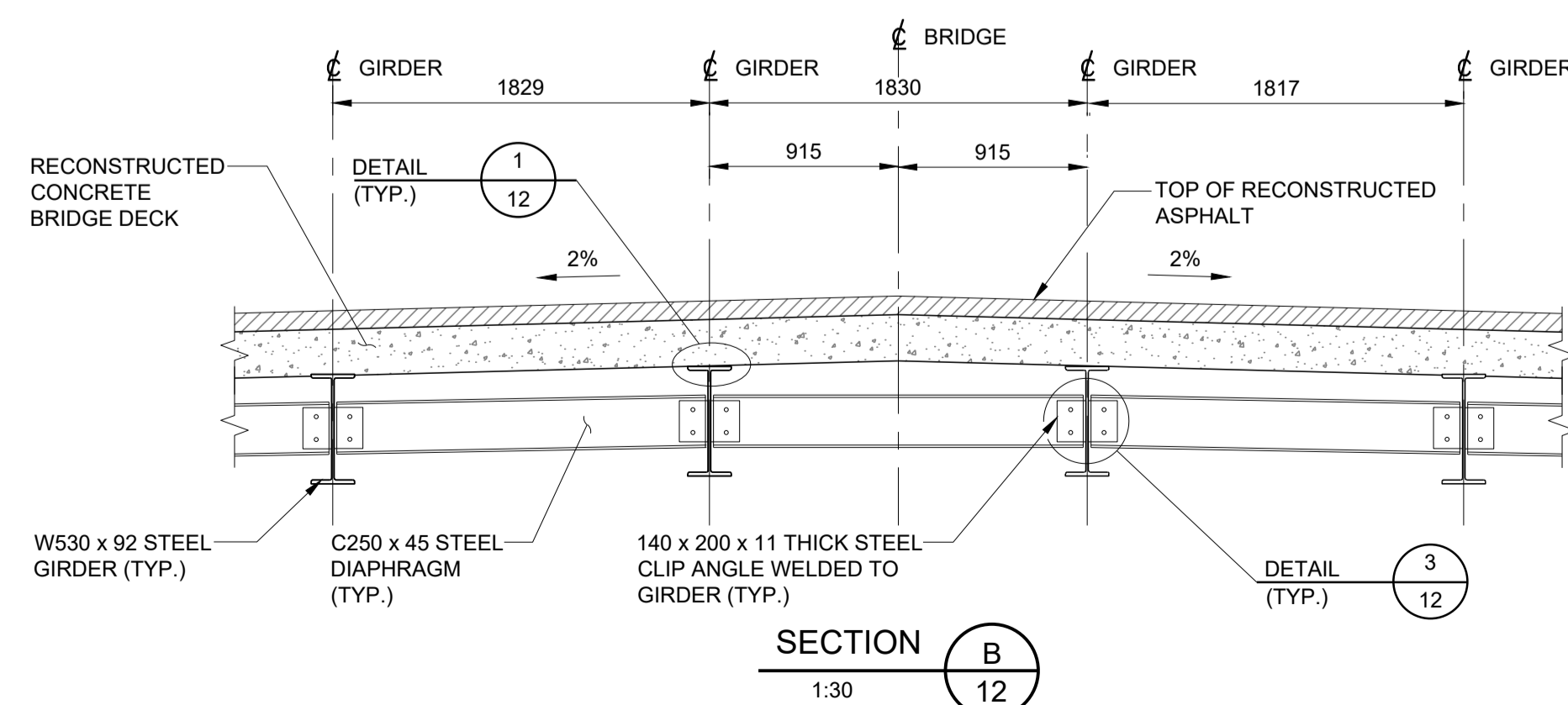
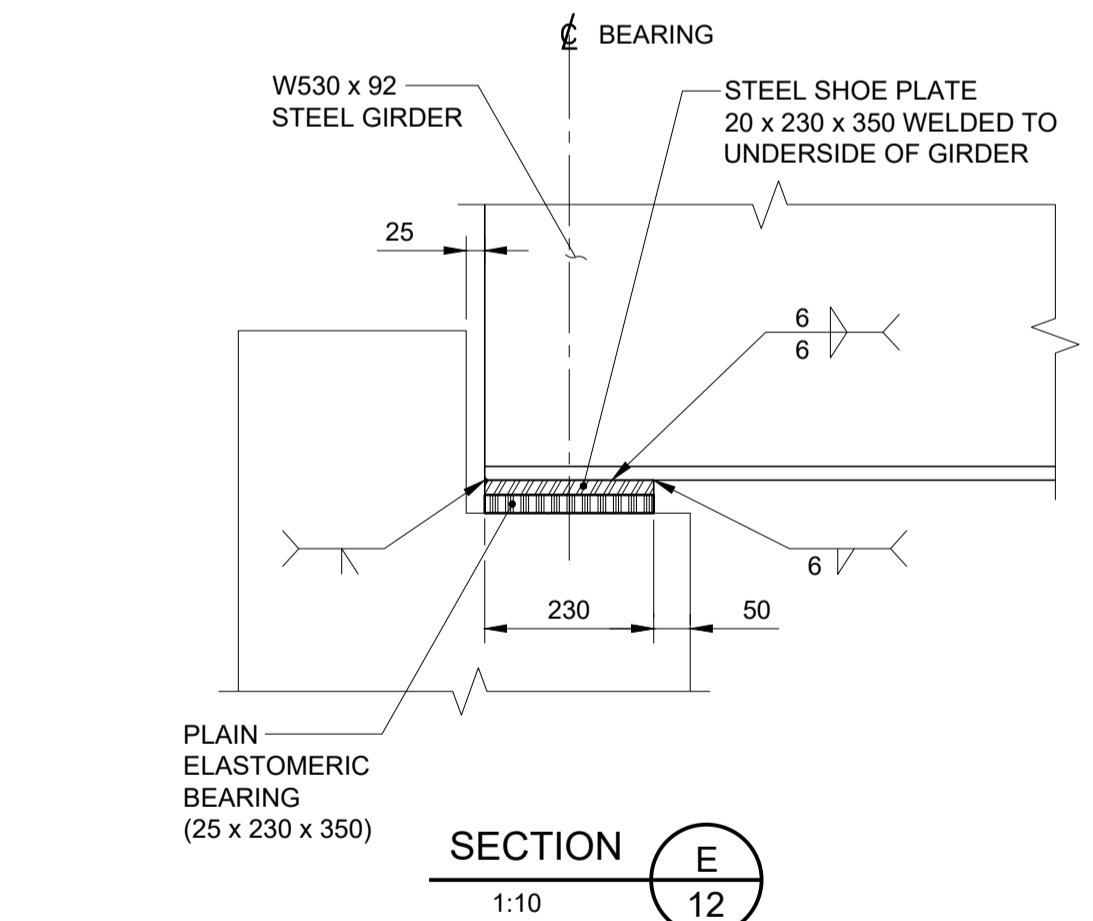
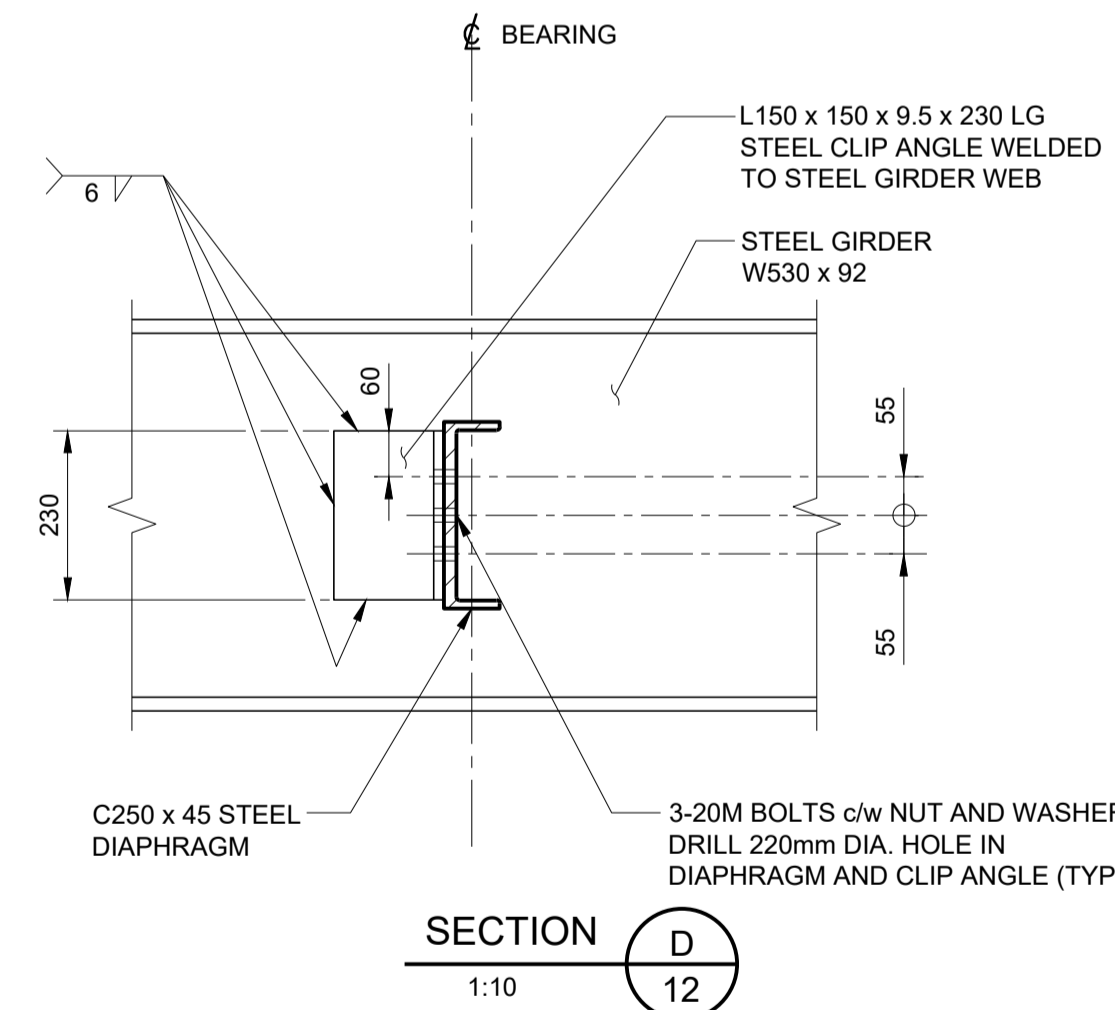
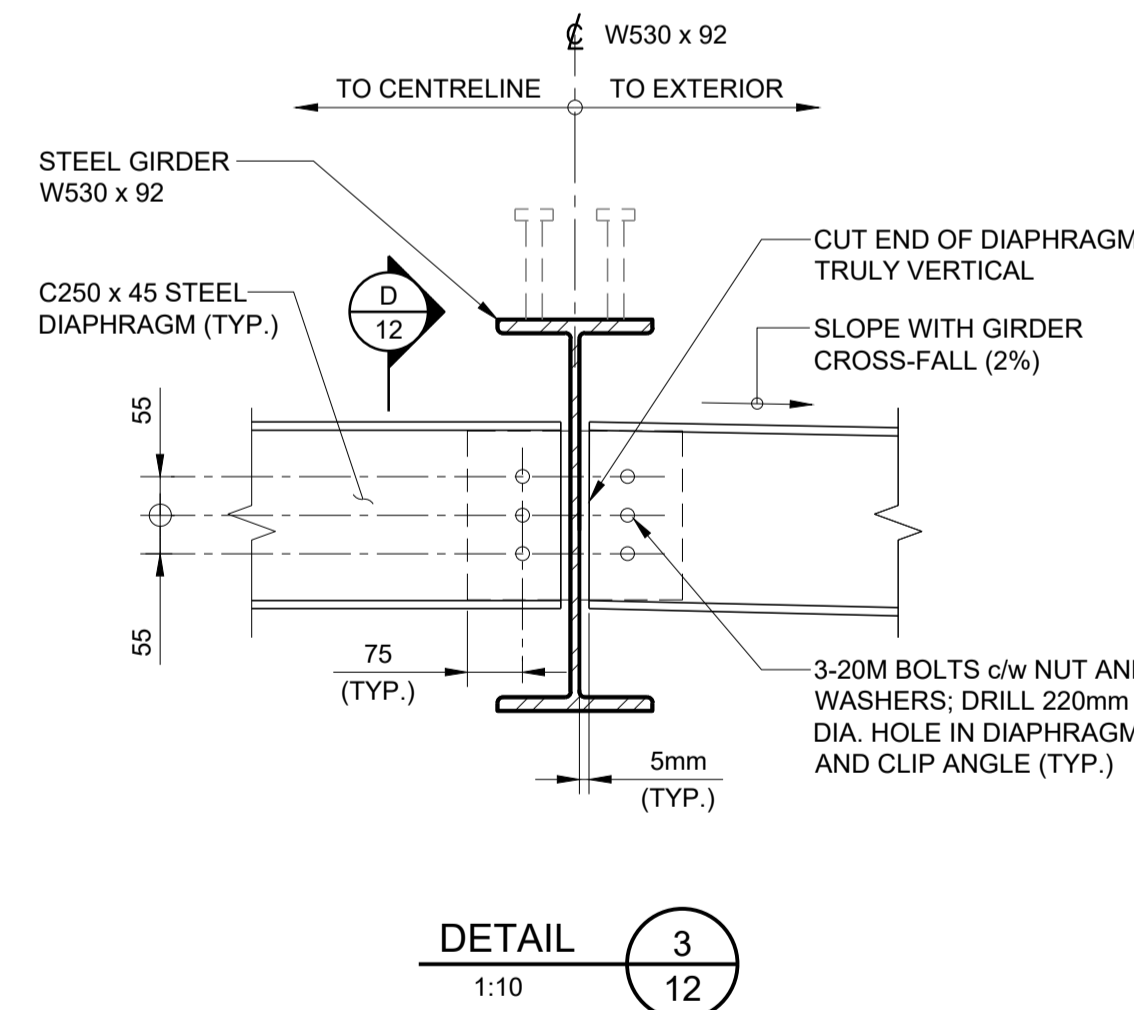
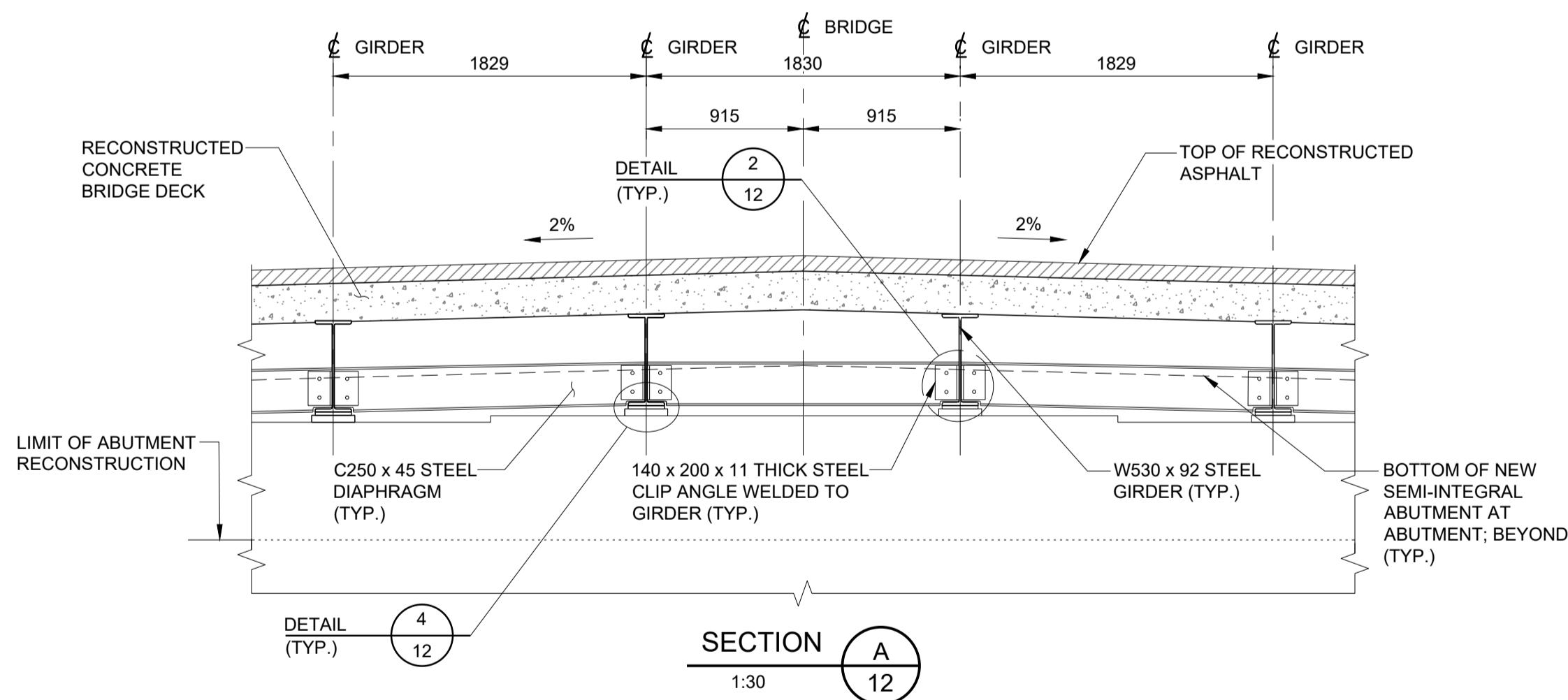
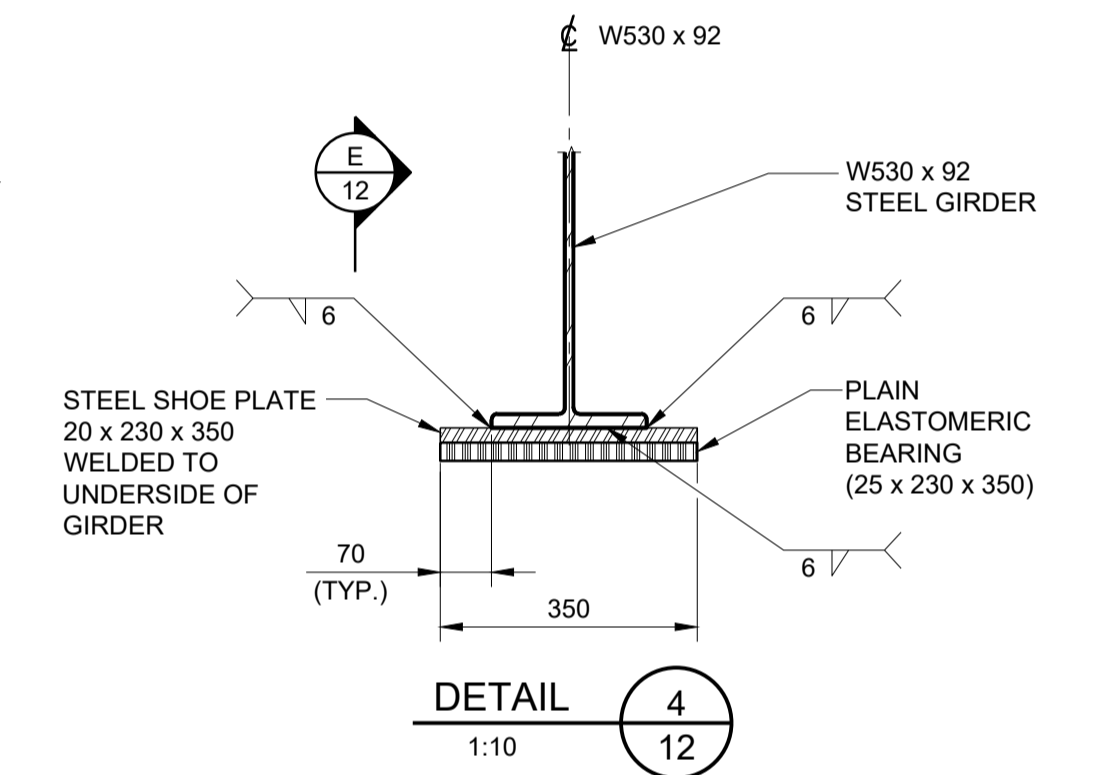
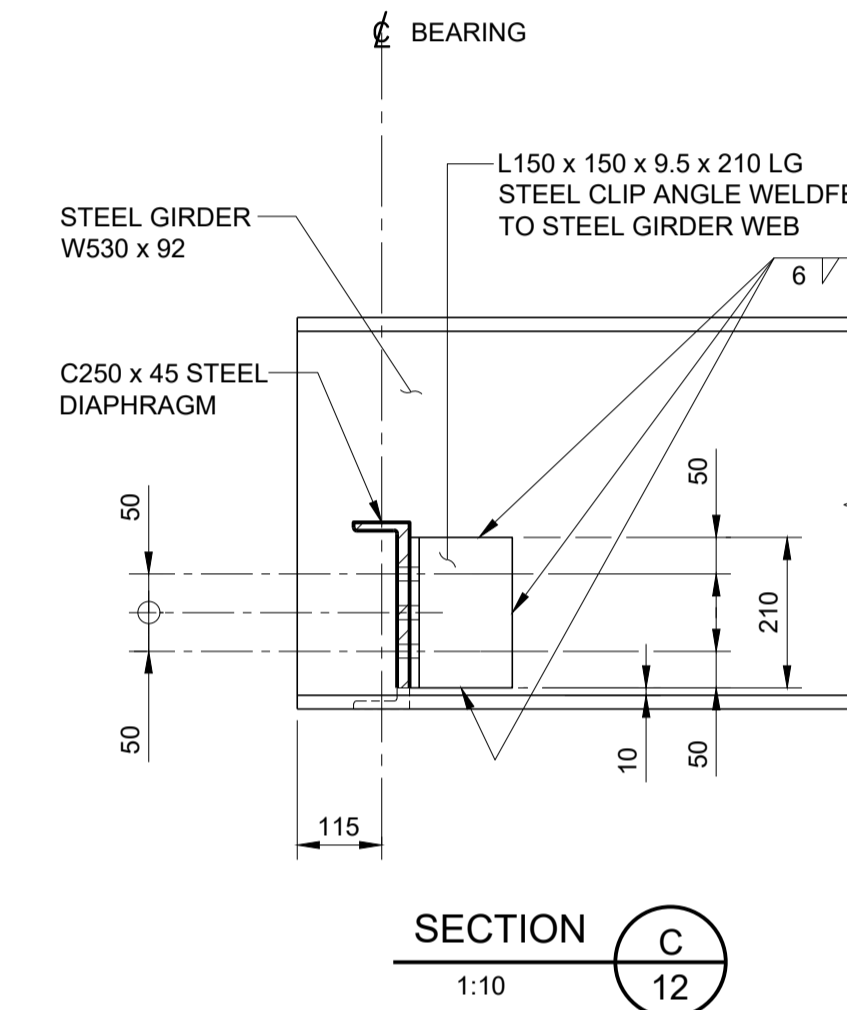
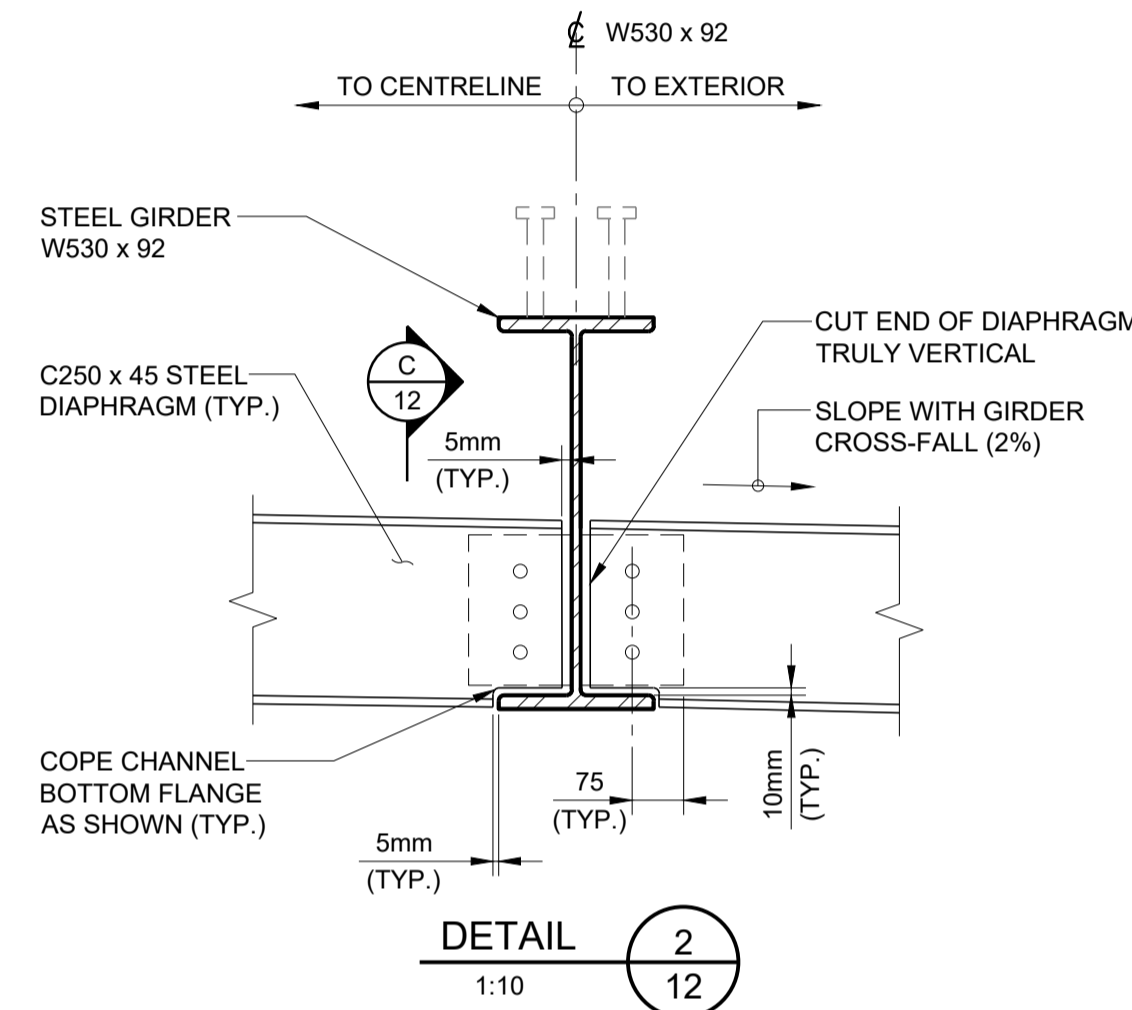
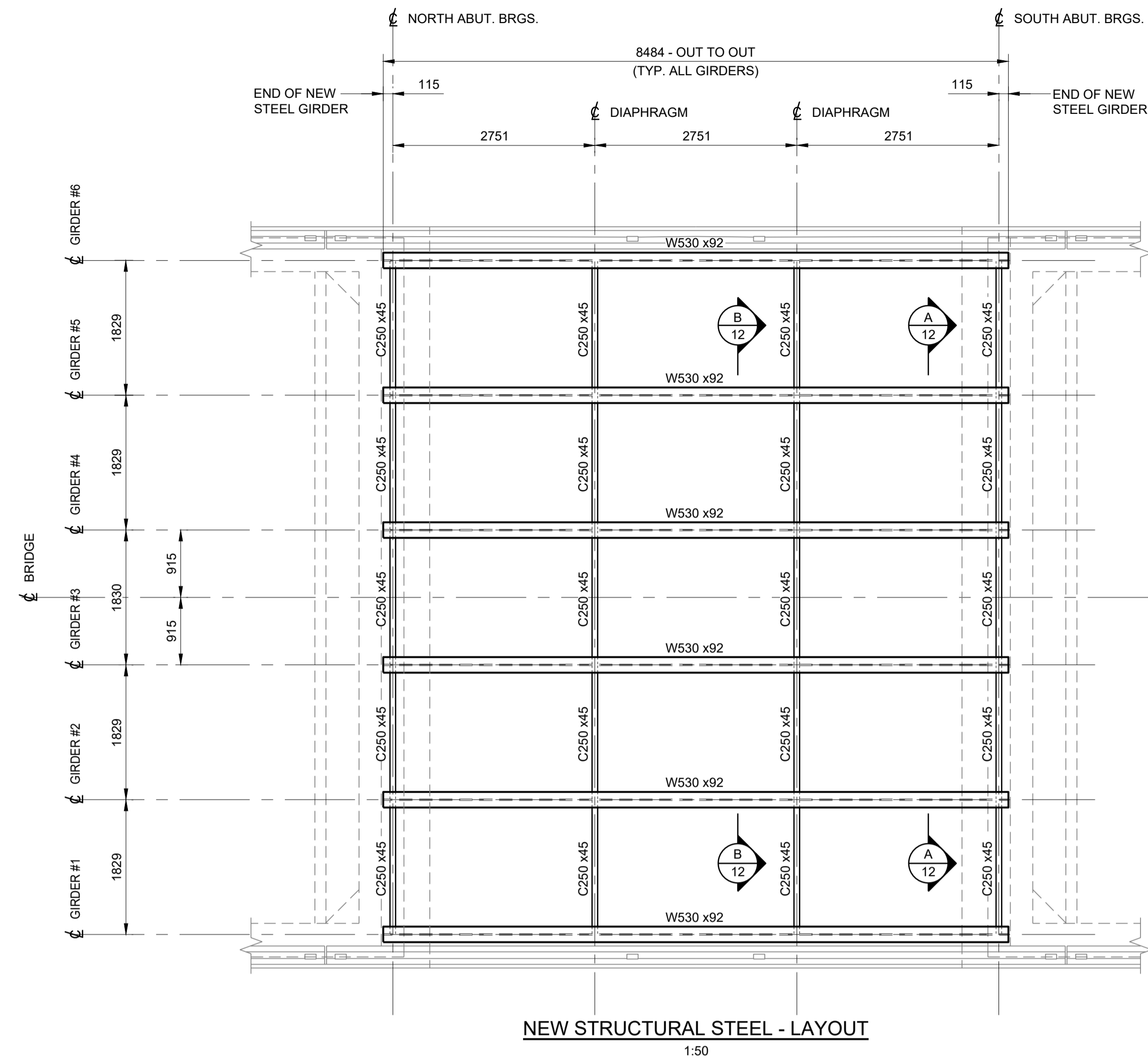
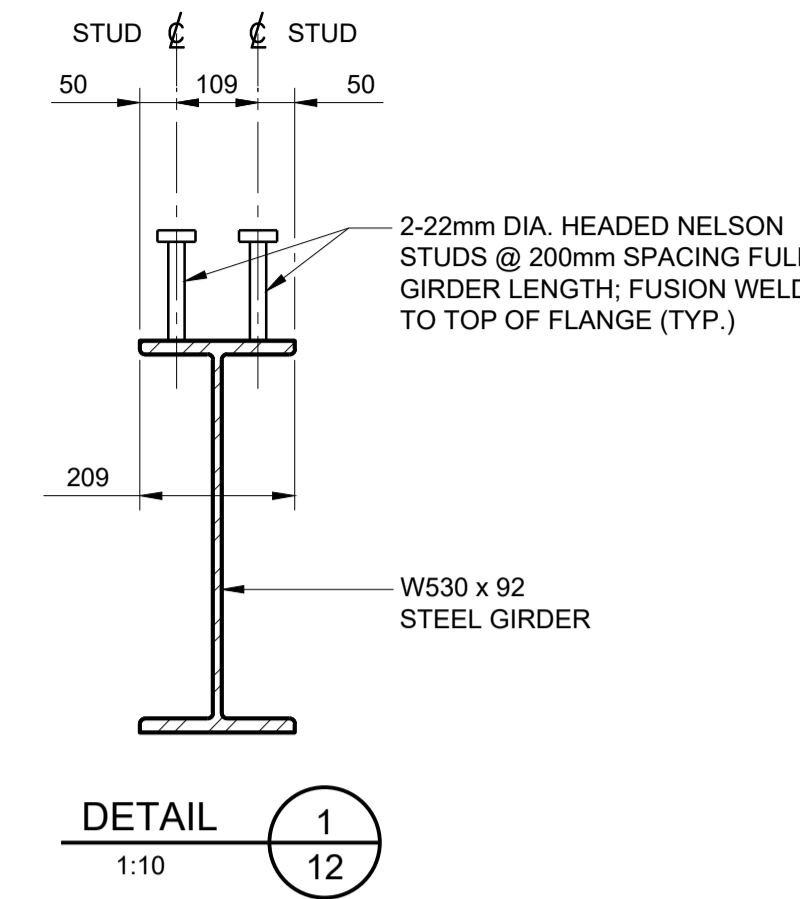
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION
DRAWING TITLE	SUPERSTRUCTURE RECONSTRUCTION - REINFORCING

DATE:	JANUARY 2025
Dwn. M.I.B.	Chk. T.D.
Scale:	AS SHOWN
Des. T.D.	Chk. J.P.
CONTRACT NO.	PW-2025-01
SHEET	12 OF 17
DWG. NO.	11

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING No. 01 FOR GENERAL NOTES.
3. ALL STRUCTURAL STEEL SHALL BE GRADE 350W. ALL STEEL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION TO CSA G164.
4. ANCHOR BOLTS SHALL BE ASTM A325 AND HOT DIPPED GALVANIZED TO CSA G164. ALL BOLTS SHALL BE TIGHTENED USING 'TURN OF NUT' METHOD.
5. SHEAR STUD CONNECTORS SHALL BE 22mm DIAMETER, AND CONFORM TO ASTM STANDARD A108 AND CSA W59.
6. ALL LENGTHS SHOWN ARE IN THE HORIZONTAL PLANE AND MEASURED AT 20 DEGREES CELSIUS.
7. TOTAL CAMBER (MID-SPAN OF GIRDER) SHALL BE 25mm, PARABOLIC PROFILE.
8. THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION, AND ERECTION AND UNTIL THE STRUCTURAL STEEL IS IN ITS FINAL LOCATION WILL ALL PERMANENT BRACING, CONNECTIONS, AND SUPPORTS IN PLACE AND THE CONCRETE IN THE DECK HAS REACHED MINIMUM 75% OF ITS SPECIFIED STRENGTH.



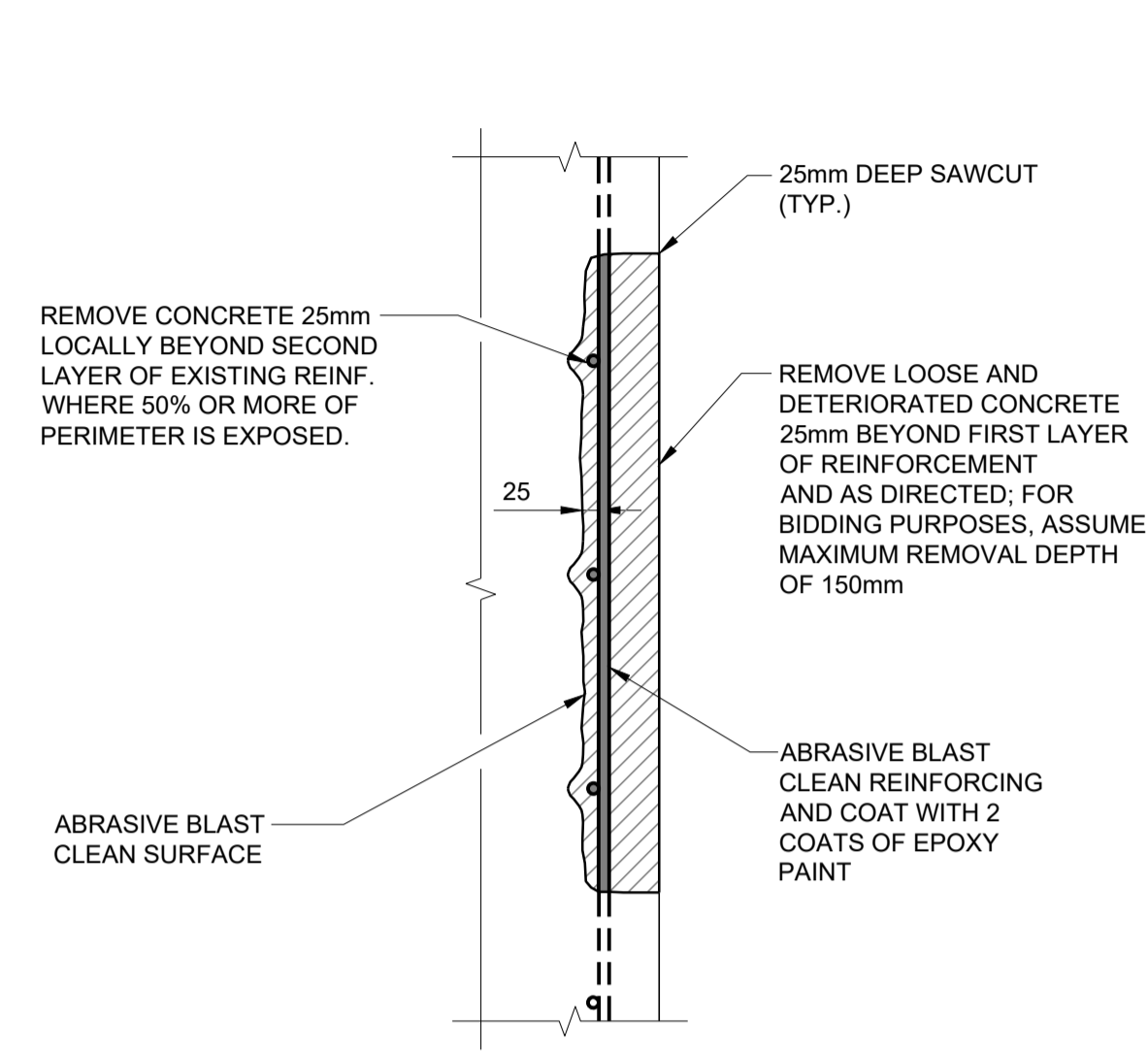
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION
DRAWING TITLE	STRUCTURAL STEEL DETAILS

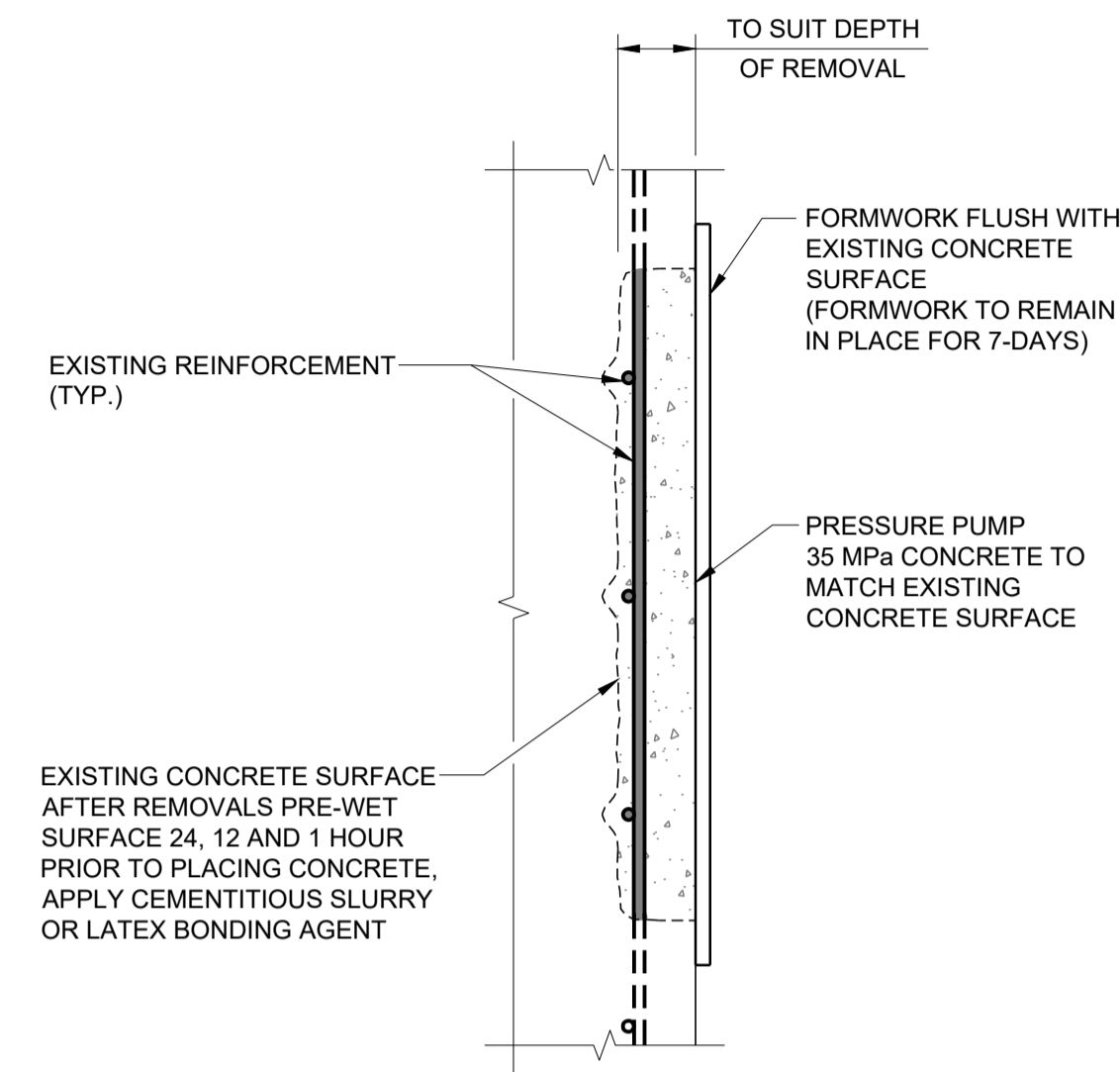
DATE: JANUARY 2025
Dwn. M.I.B. Chk. T.D.
Scale: AS SHOWN
Des. T.D. Chk. J.P.
CONTRACT NO. PW-2025-01
SHEET 13 OF 17
DWG. NO. 12

NOTES:

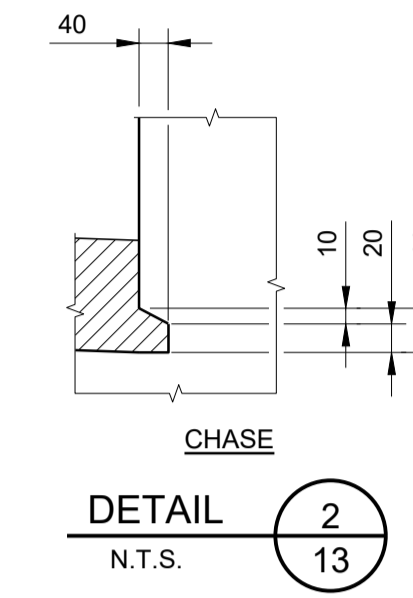
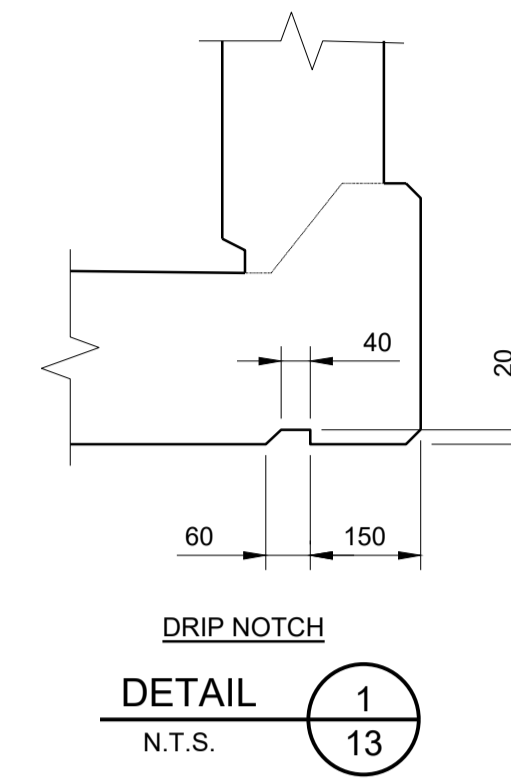
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
3. LOCATION OF REPAIRS SHALL BE AS DELINEATED ON SITE BY THE CONTRACT ADMINISTRATOR.



TYPICAL CONCRETE REMOVAL
VERTICAL SURFACE
 N.T.S.



TYPICAL FORMED CONCRETE REPAIR
VERTICAL SURFACE
 N.T.S.



			NO.	REVISION	BY	DATE	CLIENT	DATE: JANUARY 2025
			1	ISSUED FOR TENDER	T.D.	15/01/25	UNITED COUNTIES OF PRESCOTT & RUSSELL	Dwn. M.I.B. Chk. T.D. Scale: AS SHOWN
PROJECT TITLE								Des. T.D. Chk. J.P.
BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION								CONTRACT NO. PW-2025-01
DRAWING TITLE								SHEET 14 OF 17
MISCELLANEOUS DETAILS								DWG. NO. 13

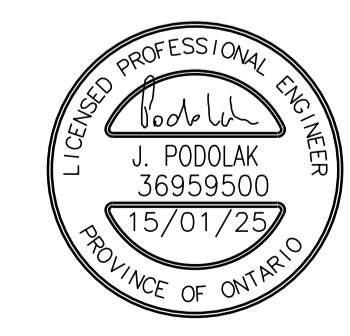
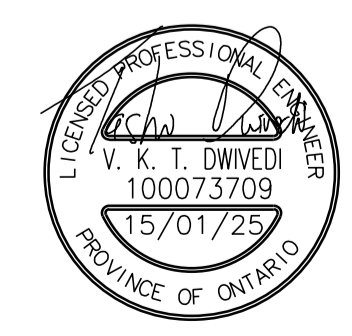
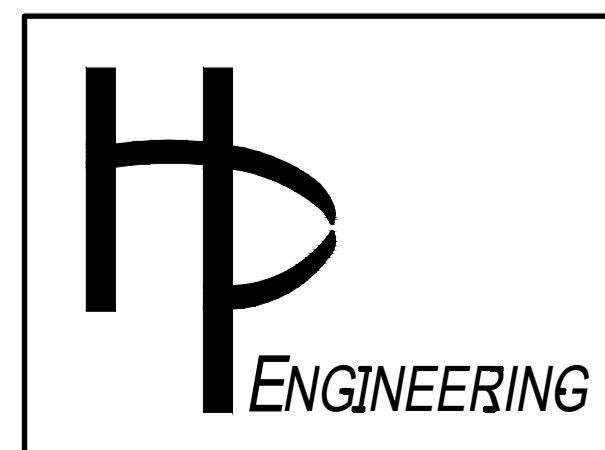
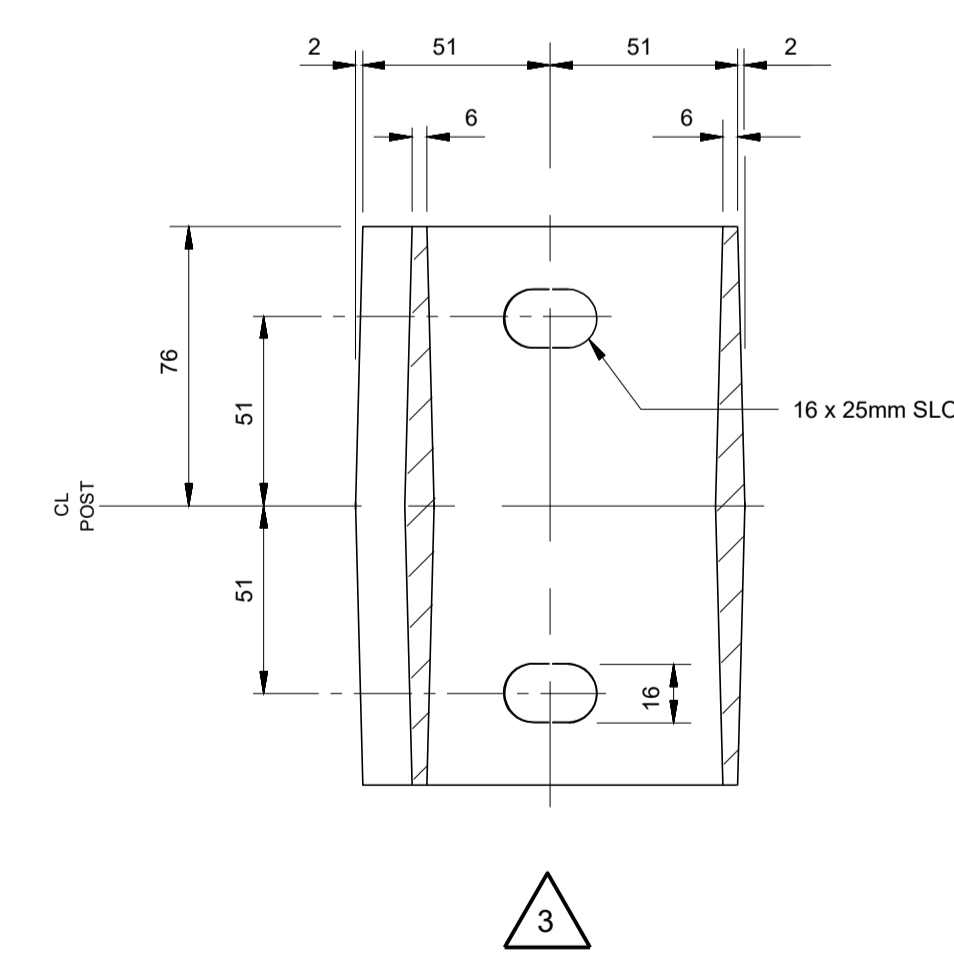
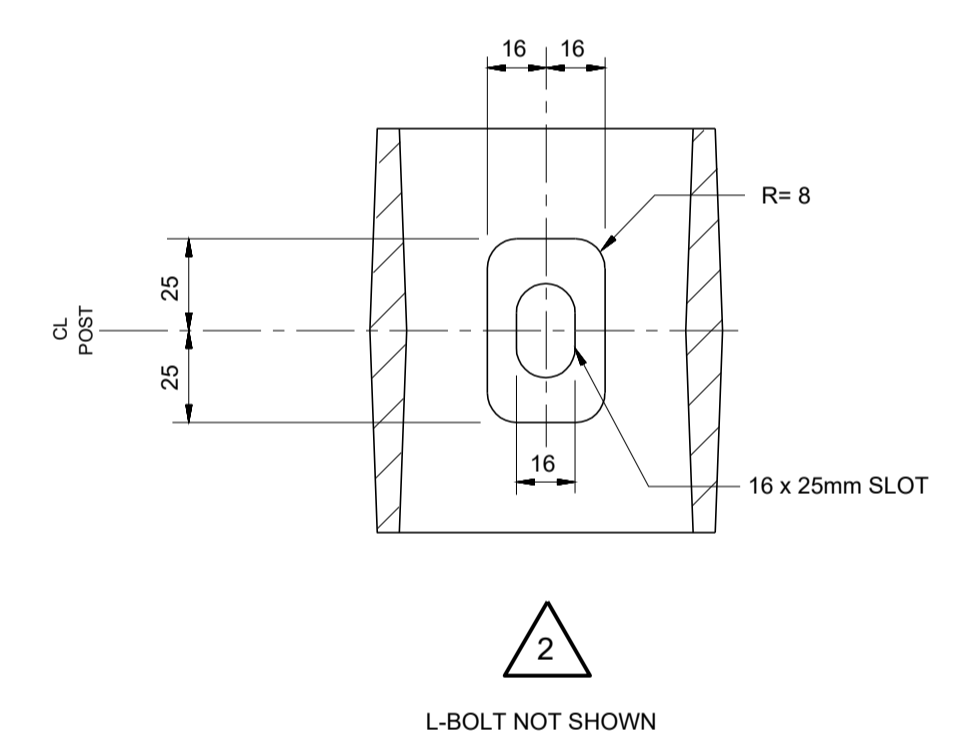
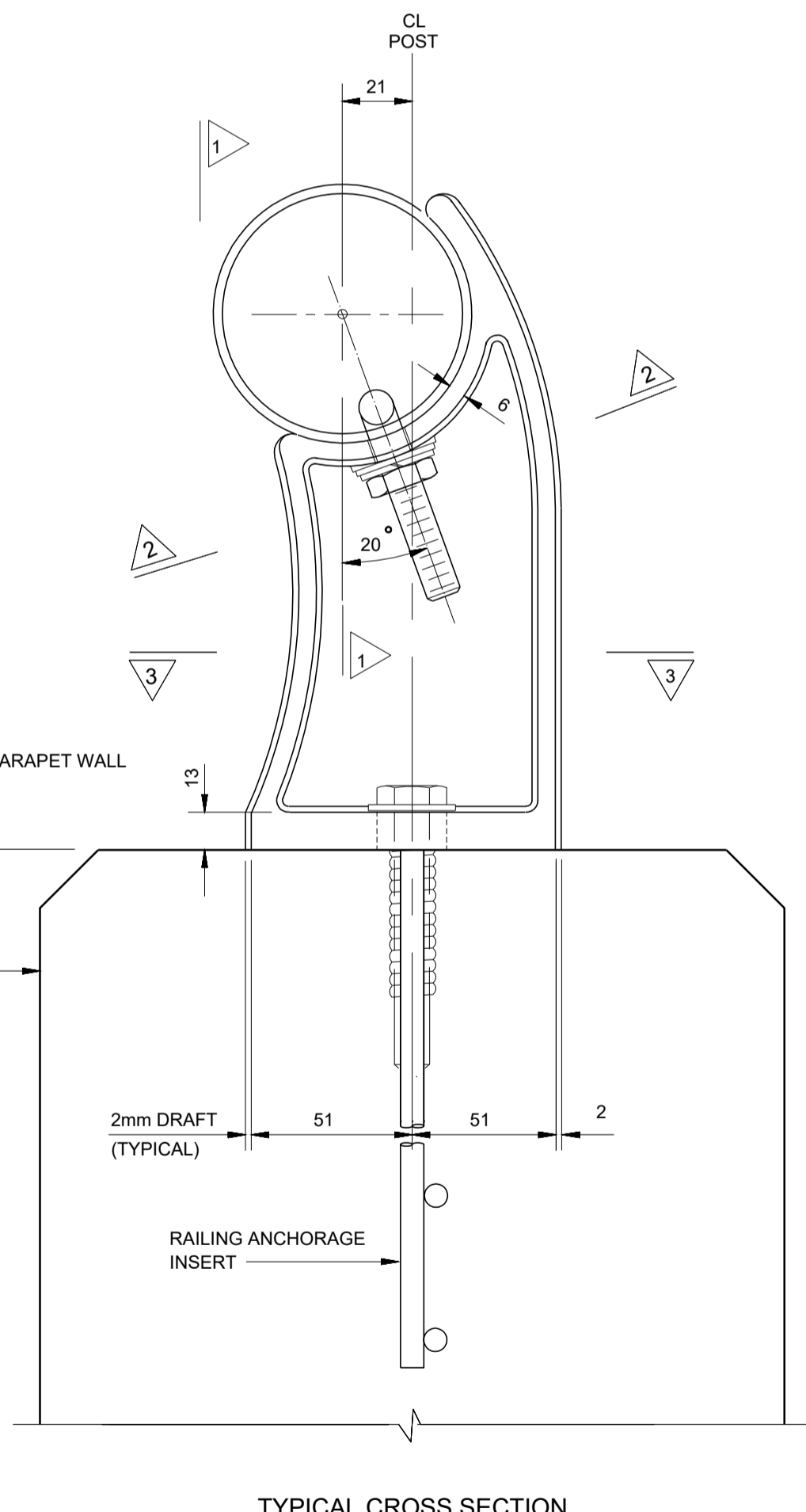
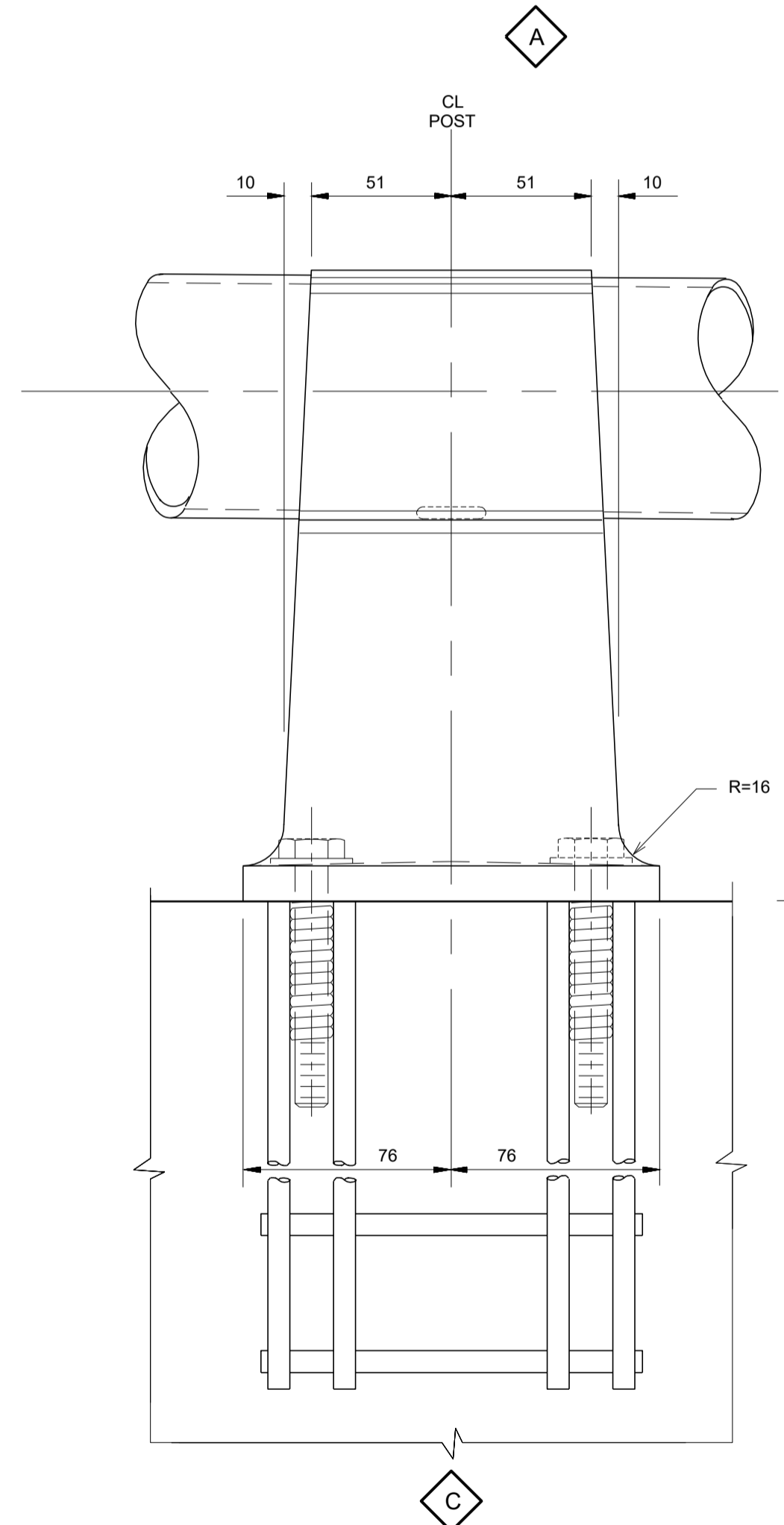
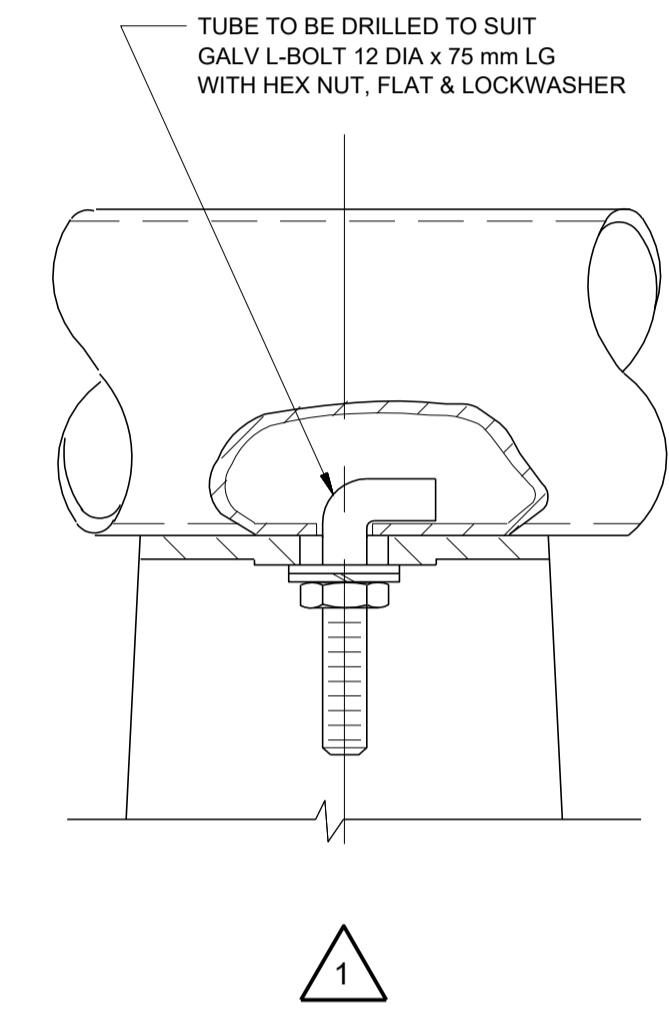
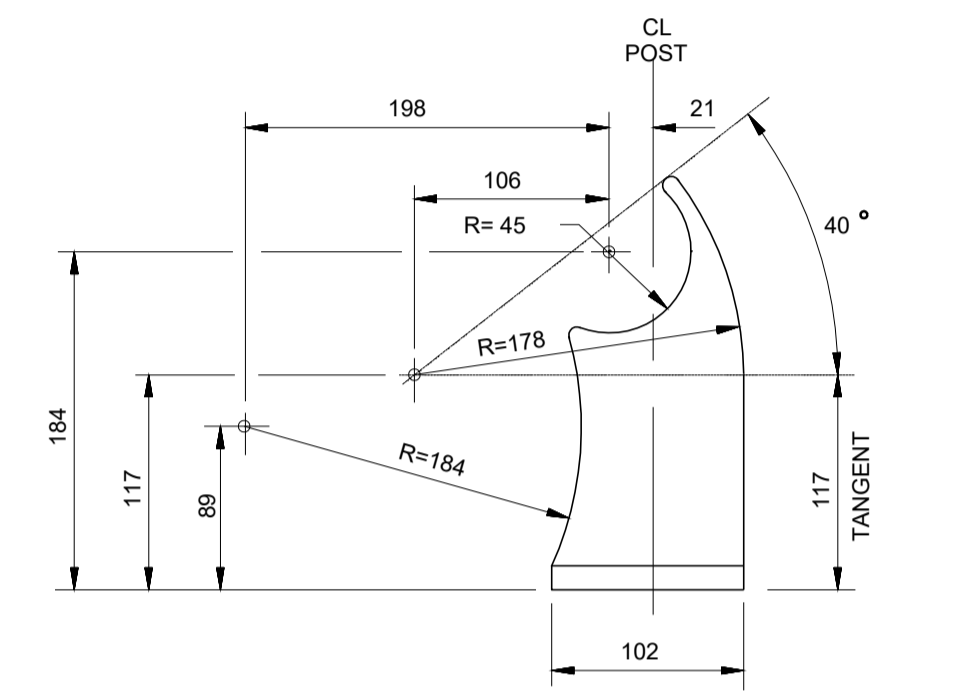
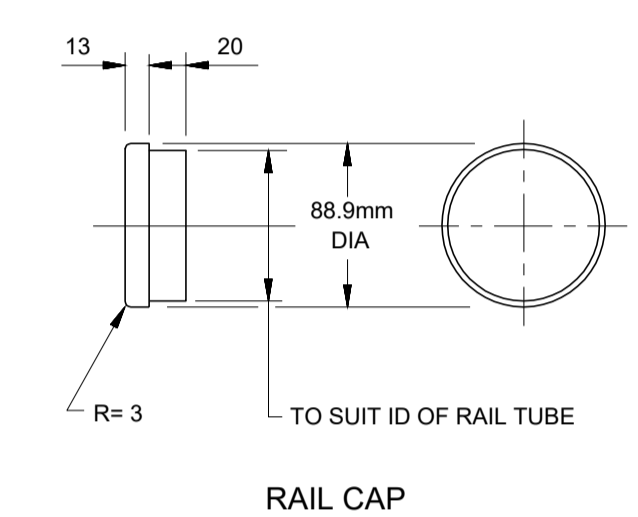
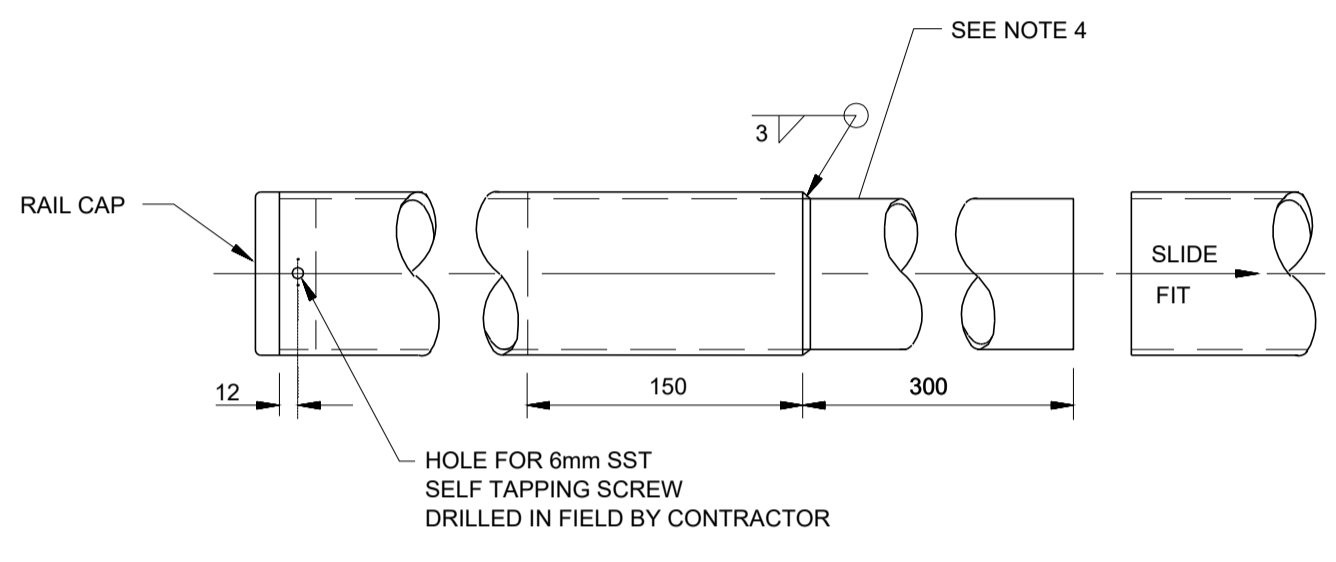
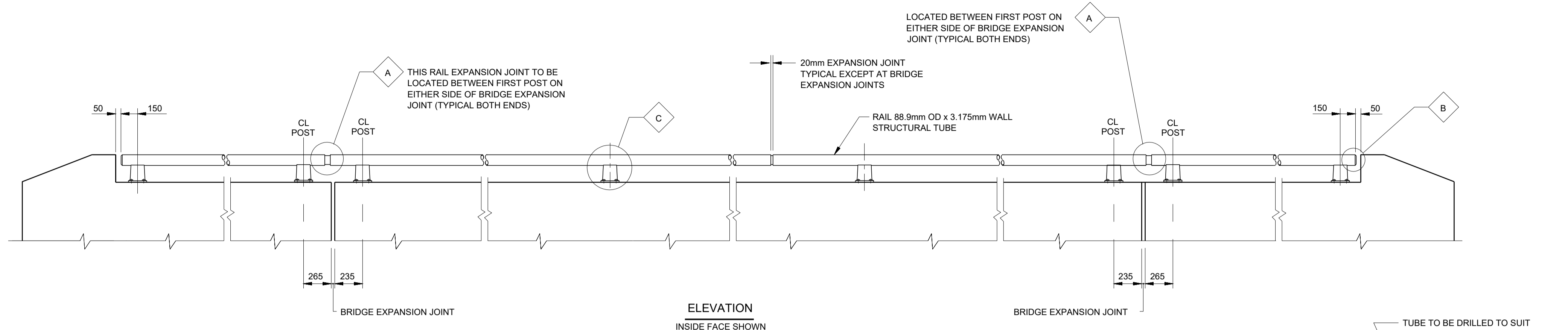
NOTES:

- RAIL ELEMENTS SHALL BE STRUCTURAL TUBING SUPPLIED IN ACCORDANCE WITH CSA G40.21-M92 GRADE 350, EXCEPT WHERE NOTED.
- STEEL IN POSTS SHALL BE CAST STEEL SUPPLIED IN ACCORDANCE WITH ASTM A27-60 GRADE 65-35.
- RAIL SHALL BE SUPPLIED WITH SPLICE IN LENGTHS OF 6980mm (EXCLUDING SPLICE) EXCEPT AS NOTED.
- GALVANIZED RAIL TUBING MATING SURFACES TO HAVE A 2 ± 0.5 mm GAP ALL AROUND TO ENSURE A SLIDE FIT.
- STEEL POSTS AND RAILS SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164-M. ALL GALVANIZING SHALL BE DONE AFTER FABRICATION.
- ELECTRODES SHALL BE A LOW HYDROGEN SPECIFICATION E7015, E7016 OR E7018.
- POST AND ANCHORAGE TO INCLUDE ALL BOLTS AND WASHERS.
- END CAP TO INCLUDE SST SELF TAPPING FASTENERS.
- L-BOLT, NUT AND WASHERS FOR FASTENING STEEL TUBING TO POSTS SHALL BE GALVANIZED (CSA G164-M).
- RAIL CAP MATERIAL SHALL BE STEEL OR ALUMINUM.
- RAIL SHALL BE PREBENT TO FOLLOW ROAD CURVATURE WHERE RADIUS IS LESS THAN 150m.
- RAIL POSTS SHALL BE SET PERPENDICULAR TO GRADE.
- WHERE LAYOUT OF POSTS IS NOT SHOWN, POST LOCATION SHALL BE DETERMINED BY THE CONTRACTOR.
- RAIL MAY BE CUT AS REQUIRED IN FIELD WITH PIPE CUTTERS. CUT TO BE SURFACE TREATED WITH ZINC RICH PAINT.
- WHEN CONNECTING TO EXISTING RAILING, RAIL MUST BE MADE CONTINUOUS AND POST SPACING DETERMINED WITH REFERENCE TO EXISTING POSTS.
- ALTERNATIVE ALUMINUM RAIL AND POST DESIGNS WILL BE PERMITTED. THE RAIL SHALL BE 6061 ALLOY T-6 HEAT TREATED. WHEN AN EXTRUDED POST IS USED, THE ALLOY AND HEAT TREATMENT SHALL BE THE SAME AS SPECIFIED FOR THE RAIL. WHEN A CAST POST IS USED THE ALLOY SHALL BE A 444.2-T4.
- SPLICING OF RAIL TUBES MAY BE DONE BY WELDING ON OF SPLICE PIECE OR BY SWEDGING OF RAIL END.
- RAILING ANCHORAGE INSERT TO BE PLACED PRIOR TO CONCRETING.
- THE COMBINATION OF STEEL RAIL AND ALUMINUM POSTS IS PERMITTED.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
- REFER TO DRAWING NO. 2 FOR GENERAL NOTES.
- CONTRACTOR SHALL COMPLETE THEIR OWN QUANTITY TAKE OFFS AND SUBMIT SHOP DRAWINGS, BASED ON THEIR FIELD MEASUREMENTS, FOR REVIEW PRIOR TO ORDERING MATERIALS.

APPLICABLE STANDARD DRAWINGS
OPSD-4019.000 SINGLE RAIL ANCHORAGE INSERTS

MODIFIED

STANDARD DRAWING APRIL 2011	SS110-21
RAILING FOR BARRIER/PARAPET WALL	



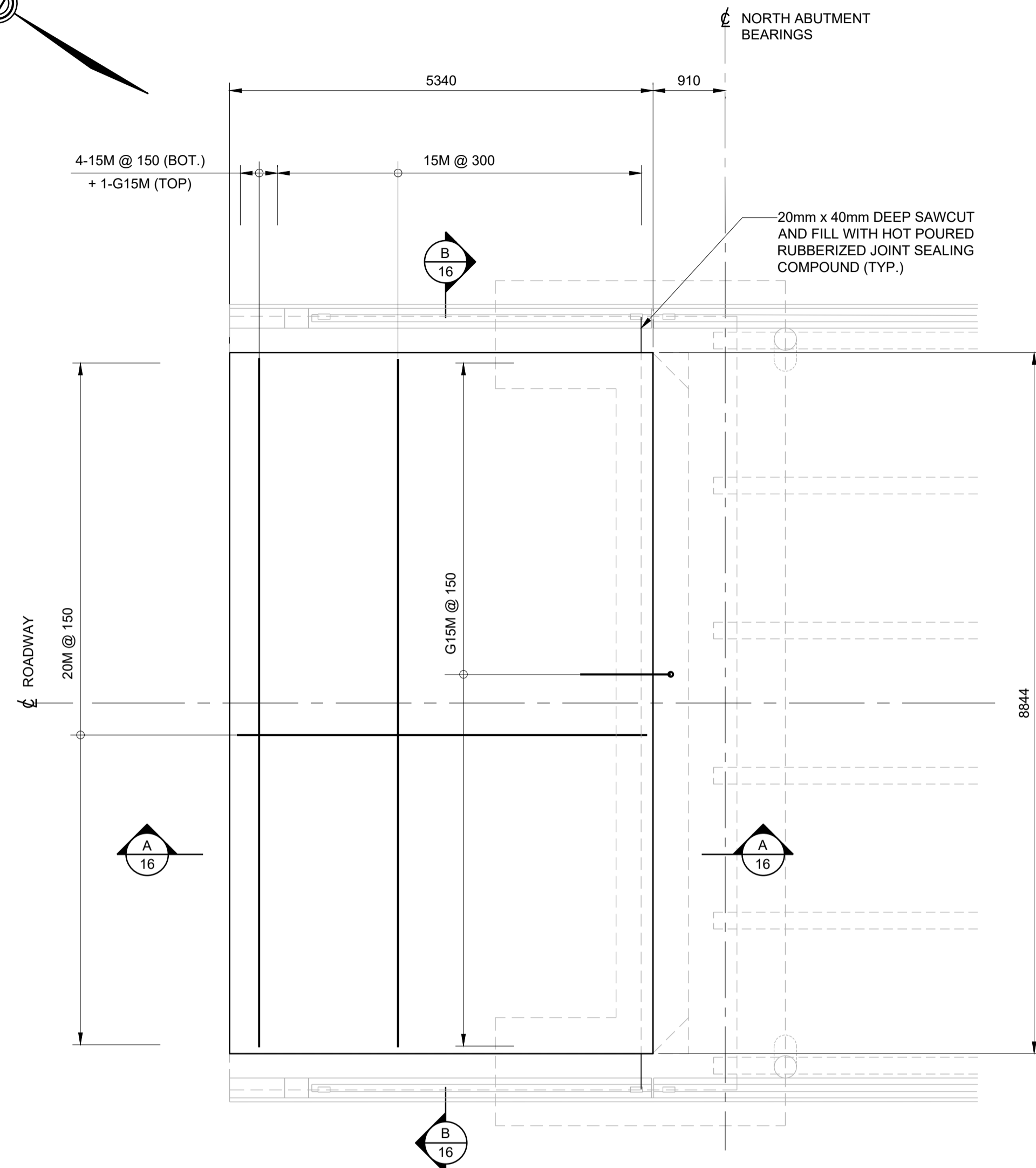
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION
DRAWING TITLE	PARAPET WALL RAILING

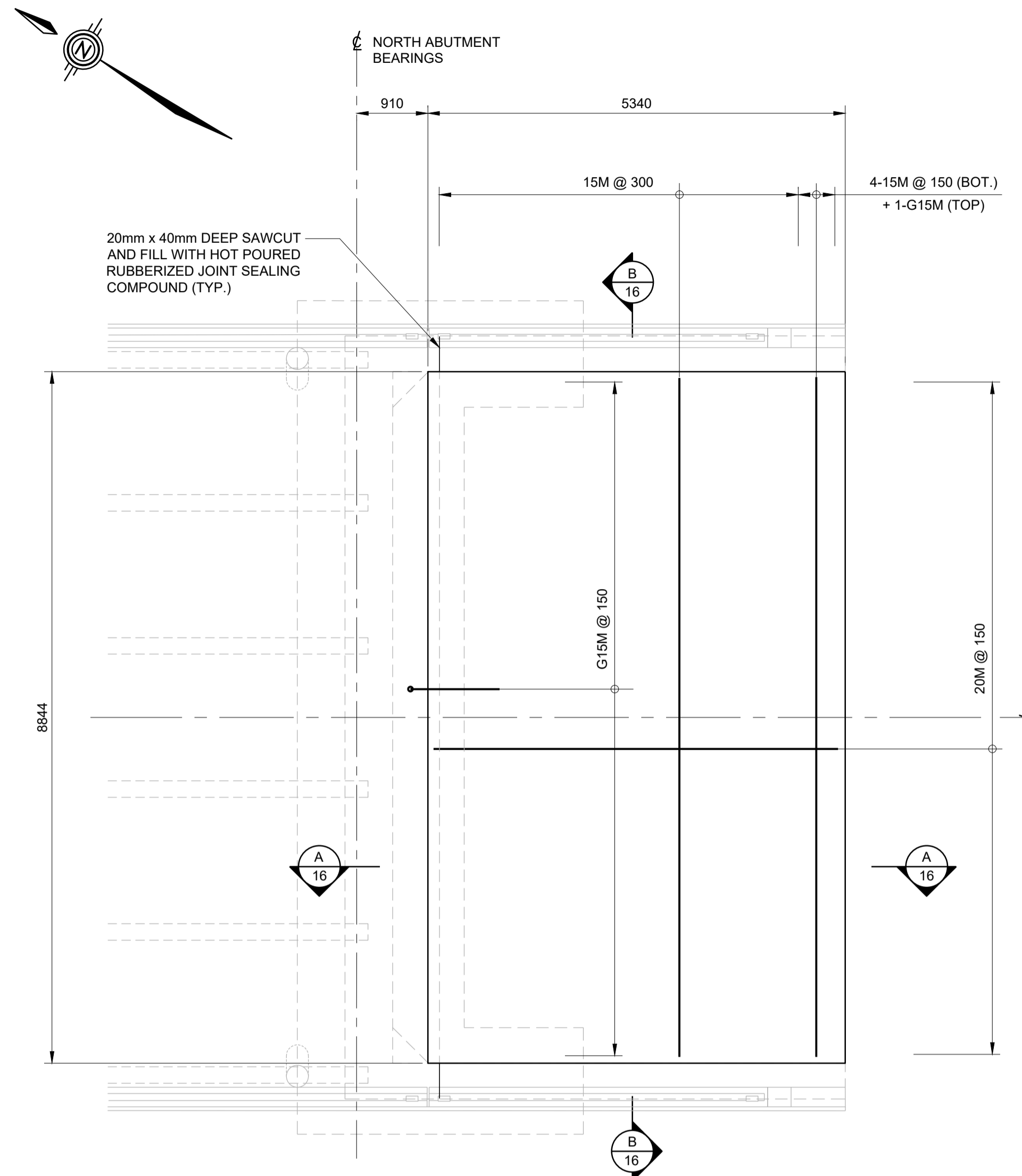
DATE: JANUARY 2025
Dwn. M.I.B. Chk. T.D.
Scale: AS SHOWN
Des. T.D. Chk. J.P.
CONTRACT NO. PW-2025-01
SHEET 16 OF 17
DWG. NO. 15

NOTES:

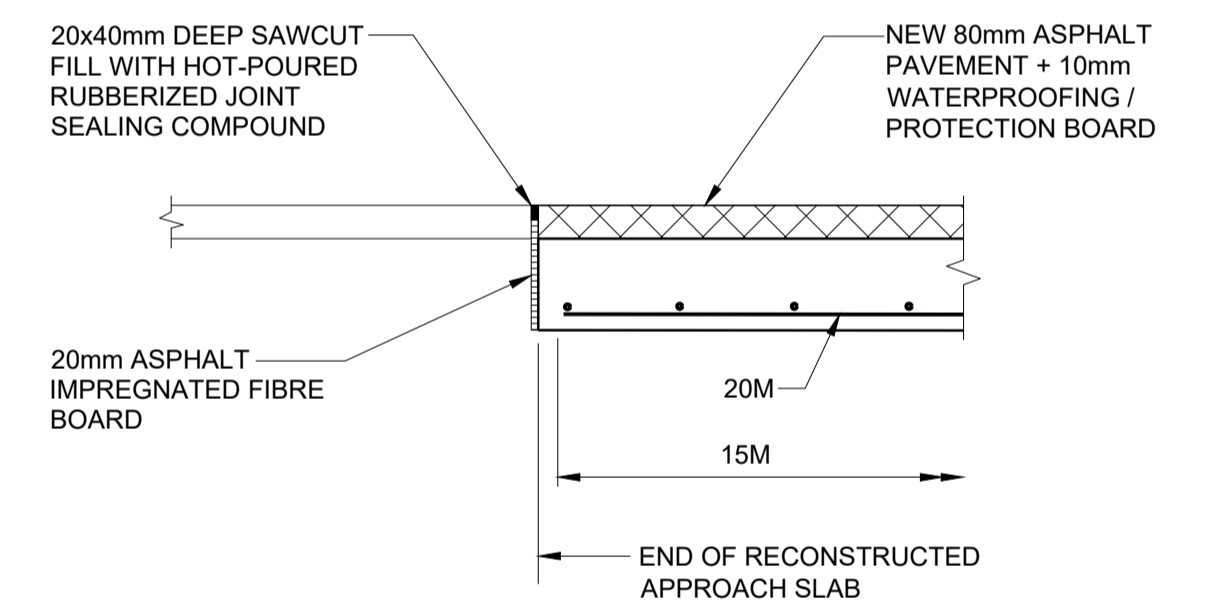
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.



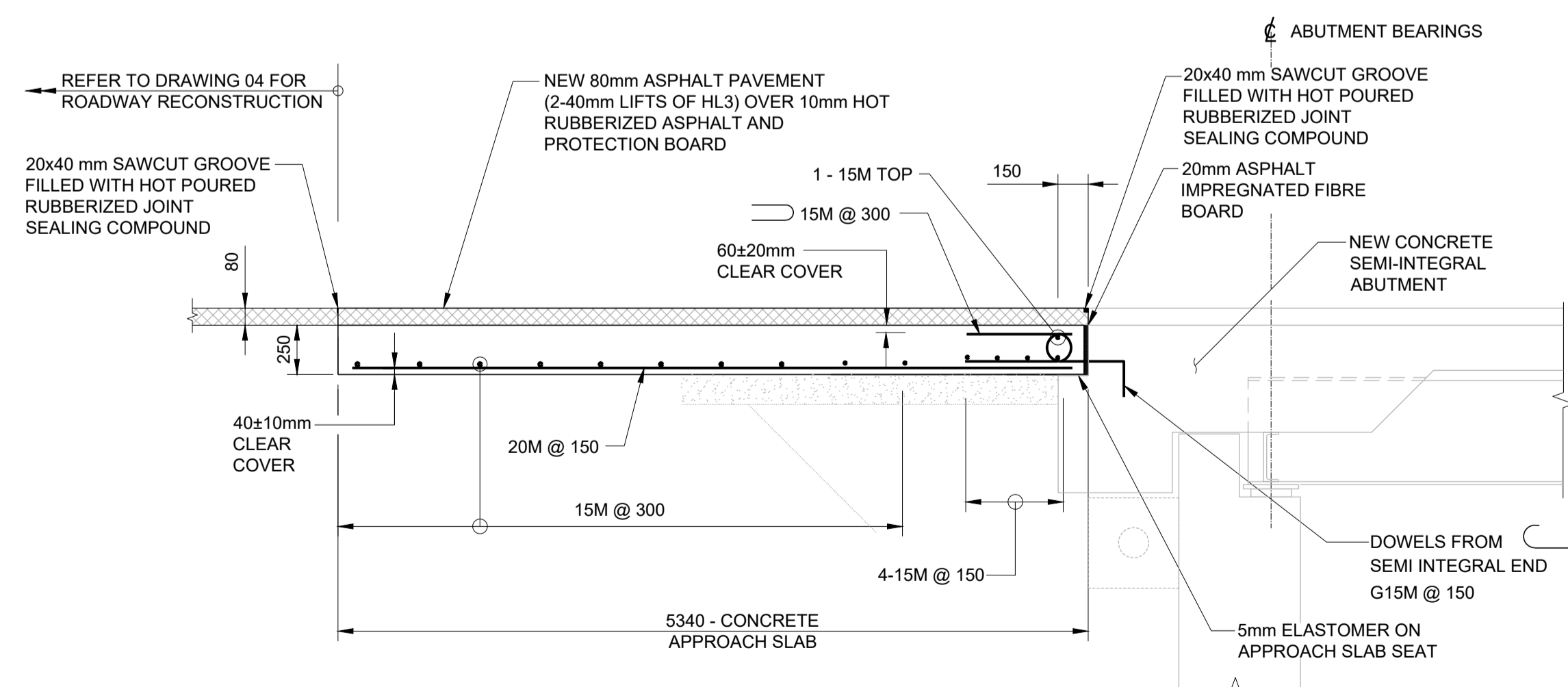
PLAN - AT WEST ABUTMENT
1:50



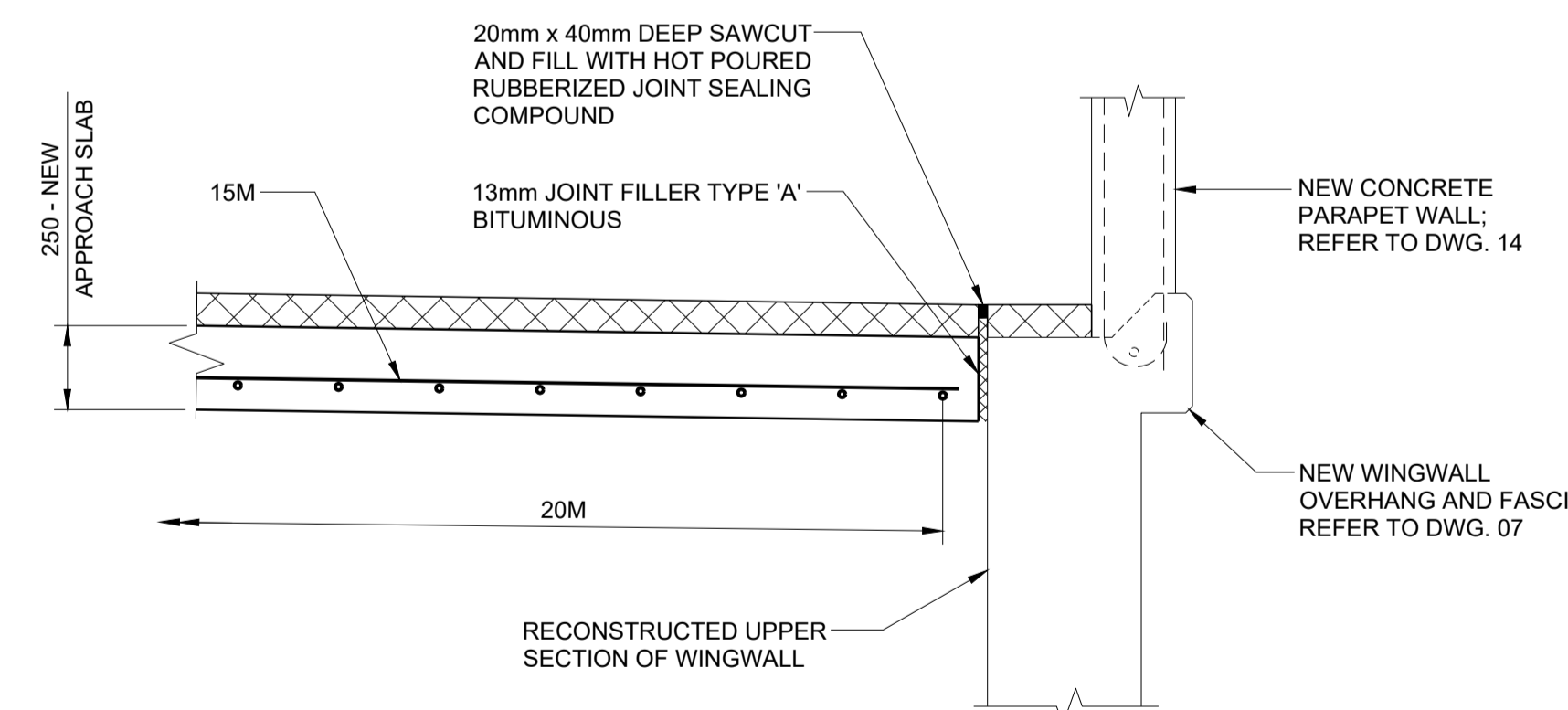
PLAN - AT EAST ABUTMENT
1:50



EXPANSION JOINT AT END OF APPROACH SLAB
N.T.S.



SECTION A
N.T.S.



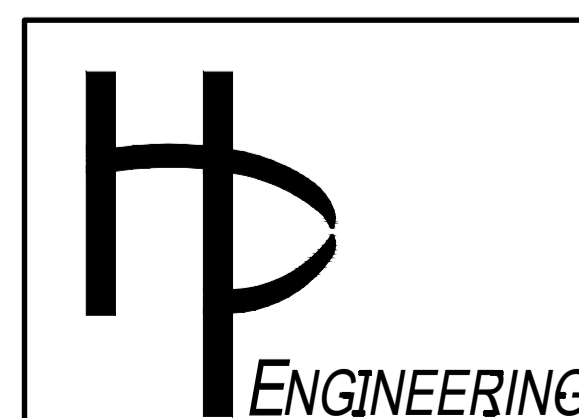
SECTION B (AT WINGWALL)
1:20

APPLICABLE STANDARD DRAWINGS

- OPSD-3370.1000 DECK WATERPROOFING, HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD DETAILS
- OPSD-3370.1010 DECK WATERPROOFING, HOT APPLIED ASPHALT MEMBRANE AT ACTIVE CRACKS GREATER THAN 2mm WIDE AND CONSTRUCTION JOINTS

MODIFIED

STANDARD DRAWING MARCH 2006	SS116-1
5340 mm APPROACH SLAB	



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	15/01/25

CLIENT	UNITED COUNTIES OF PRESCOTT & RUSSELL	DATE: JANUARY 2025
PROJECT TITLE	BRIDGE OVER EAST BRANCH CASTOR RIVER REHABILITATION	Dwn. M.I.B. Chk. T.D.
DRAWING TITLE	APPROACH SLAB	Scale: AS SHOWN
		Des. T.D. Chk. J.P.
		CONTRACT NO. PW-2025-01
		SHEET 17 OF 17
		DWG. NO. 16