

GENERAL

G1 IN THESE NOTES, APPROVED, DIRECTED, REQUIRED, REJECTED & SIMILAR EXPRESSIONS, SHALL MEAN APPROVED, DIRECTED, REQUIRED, REJECTED AND THE LIKE BY THE SUPERINTENDENT THROUGH THE CONTRACTOR.

G2 READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTS AND OTHER DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED.

G3 BUILDING SET-OUT AND DIMENSIONS ARE DETERMINED BY THE ARCHITECT. DIMENSIONS EXPRESSED IN MILLIMETERS, UNO. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THESE DRAWINGS. SETTING OUT DIMENSIONS SHALL BE VERIFIED BEFORE COMMENCING WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND THE ARCHITECT'S OR OTHER DRAWINGS IS TO BE ADVISED BEFORE PROCEEDING WITH THE WORK.

G4 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED.

G5 24 HOURS NOTICE REQUIRED FOR WORK REQUIRING INSPECTION.

G6 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC & TO THE FOLLOWING CRITERIA:

IMPORTANCE LEVEL : 1
DESIGN LIFE: 25

DESIGN EVENT APE	SERVICEABILITY	ULTIMATE
EARTHQUAKE	-	-
WIND	-	45m/s

G7 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED ACCORDING TO AS 1170.2 FOR A REGIONAL WIND SPEED OF 48m/s IN TERRAIN CATEGORY 2.5 SHELTERED & FOR THE FOLLOWING LIVE LOADS:

AREA	LIVE LOAD
ROOF	0.25 kPa
SLAB	24T FRONT END LOADER AGGREGATE LOADING IN BINS MAXIMUM HEIGHT 3.4m LOOSE DENSITY 18kNm ³ INTERNAL FRICTION ANGLE = 30 DEGREES MATERIAL TO BE FULLY DRAINED

G8 WORK HEALTH & SAFETY NOTICE:
JMG HAVE CONSIDERED THE HAZARDS AND RISKS ASSOCIATED WITH THE CONSTRUCTION, OPERATION, MAINTENANCE AND EVENTUAL DEMOLITION OF THIS PROJECT. THERE ARE A NUMBER OF HAZARDS AND HENCE RISKS WHICH ARE NOT UNIQUE TO THIS PROJECT WHICH NEED TO BE MANAGED DURING THESE PHASES. JMG REMIND CONSTRUCTORS, OPERATORS, MAINTAINERS AND DEMOLISHERS OF THEIR RESPONSIBILITIES UNDER WORK HEALTH & SAFETY ACTS AND REGULATIONS. THE FOLLOWING RISKS HAVE BEEN IDENTIFIED WHICH ARE UNIQUE TO THIS PROJECT:

- NIL

FOUNDATION:

F1 FOUNDING DEPTHS ARE REDUCED LEVELS TO UNDERSIDE OF FOOTINGS SHOWN ON DRAWINGS ARE FOR TENDERING PURPOSES. EXCAVATE THROUGH FILL AS REQUIRED TO PLACE FOOTINGS ACCORDINGLY. ALL EXCAVATIONS SHALL BE APPROVED BEFORE PLACEMENT OF STRUCTURAL FILL, HARDCORE, BLINDING AND/OR REINFORCEMENT.

F2 FOUNDATION MATERIAL SHALL HAVE AN ALLOWABLE BEARING CAPACITY OF 300 kPa MINIMUM. REFER GEOTECHNICAL REPORT GES - 1 Crooked Billet Dr, Bridgewater, Geotech Report_V02 FOR FURTHER INFORMATION. PROJECT JOB NUMBER: J10720. DATE: 06/09/2024.

F3 BASES OF FOOTINGS SHALL BE HORIZONTAL, UNO.

F4 EXCESS DEPTHS AND WIDTHS IN FOUNDATIONS TO THOSE SPECIFIED SHALL BE FILLED WITH MINIMUM A.S. GRADE 15 CONCRETE. THE CONCRETE FILL SHALL NOT BE BONDED TO THE CONCRETE UNLESS APPROVED. THE COST OF FILLING SHALL BE BORNE BY THE CONTRACTOR.

F5 WHERE DETAILED ON THESE DRAWINGS & WHEREVER GROUND WATER IS ENCOUNTERED PROVIDE 50 CONCRETE BLINDING IMMEDIATELY AFTER APPROVAL OF FOUNDATION.

SLABS ON GRADE:

SG1 SUB-BASE PREPARATION
THE SUB-BASE FOR SLABS ON GRADE SHALL BE PREPARED AS FOLLOWS:

- STRIP OFF ALL VEGETATED TOPSOIL AND CUT TO REQUIRED LEVEL. 300 MIN. BELOW ESL (SUBJECT TO FINAL SITE CHECK)
- PROOF ROLL SUB-BASE TO STANDARD SPECIFIED.
- WHERE SUB-BASE DISTURBED FOR EXCAVATIONS, FILL WITH STRUCTURAL FILL TYPE A OR B THOROUGHLY COMPACTED IN 150 MAXIMUM LAYERS.

SG2 BASE PREPARATION
THE BASE FOR SLABS ON GRADE SHALL BE PREPARED AS DETAILED AND AS FOLLOWS:

- FILL WITH STRUCTURAL FILL TYPE A COMPACTED AND WATERED TO 150 MIN. FINISHED THICKNESS. ADDITIONAL FILL REQUIRED BELOW THIS LAYER SHALL BE TYPE A OR B STRUCTURAL FILL COMPACTED AND WATERED, PLACED IN LAYERS NOT EXCEEDING 200 FINISHED THICKNESS. ROLL INTO SUBGRADE WITH 10t STATIC DRUM.
- COMPACTION TO MINIMUM 95% 'STANDARD COMPACTION' TO AS 1289 U.N.O.
- PLACE 25 MAX. SAND BLINDING WATERED & COMPACTED, UNDER ENTIRE SLAB AND SLAB THICKENINGS.
- LAY 0.2mm 'FORTECON' MEMBRANE. TAPE ALL JOINTS AND SEAL ALL PENETRATIONS. PLACE UNDER ENTIRE SLAB INCLUDING SLAB THICKENINGS & INTEGRAL FOOTINGS. TURN UP AT OUTSIDE EDGES.

SG3 STRUCTURAL FILL
STRUCTURAL FILL SHALL BE AS FOLLOWS:
TYPE A - 20 FINE CRUSHED ROCK
TYPE B - 40+ FINE CRUSHED ROCK
TYPE C - 150/200 NOMINAL SIZE DOLERITE SPALLS IN 2 LAYERS.
EXCAVATED MATERIAL NOT TO BE USED WITHOUT APPROVAL.

SUSPENDED SLABS ON FILL:

SS1 GENERAL
WHERE SHOWN ON THE PROJECT DRAWINGS USE FILL AS FORMWORK ONLY FOR SUSPENDED SLABS. FILL TO BE PLACED SO AS TO ADEQUATELY SUPPORT CONCRETE UNTIL HARDENED AND SHALL BE FREE OF CONSPICUOUS CLAY CONTENT - USE COAL ASH.

SS2 SUB-BASE PREPARATION
STRIP OFF VEGETATION AND CUT TO REQUIRED LEVEL. PROOF ROLL SUB-BASE AS NOTED IN SPECIFICATION BEFORE PLACING FILL, SAND LAYER, AND FORTECON.

SS3 BASE PREPARATION
THE BASE FOR SUSPENDED SLABS ON FILL SHALL BE AS FOLLOWS:

- FILL AS NOTED IN SECTION SS1
- PLACE SAND LAYER & FORTECON AS NOTED IN SECTION SG2.

CONCRETE:

C1 WORKMANSHIP, MATERIALS & DESIGN SHALL BE IN ACCORDANCE WITH AS 3600 & ASSOCIATED CODES LISTED THEREIN AND THE SPECIFICATION.

C2 CONCRETE PROPERTIES SHALL BE AS FOLLOWS. REFERENCE TO BE MADE TO THE SPECIFICATION FOR OTHER REQUIREMENTS. SUPPLIER TO DESIGN MIX TO ACHIEVE THESE REQUIRED PROPERTIES. MOIST CURE FOR 3 DAYS MIN. AFTER POUR.

CONCRETE MIX DETAILS	
ELEMENT & LOCATION	A.S. GRADE MPa
FOOTING	N32
PRECAST PANELS	N40
BASE SLABS	N50

C3 BEAM DEPTHS ARE WRITTEN FIRST UNO AND INCLUDE SLAB THICKNESS IF ANY.

C4 NO HOLES OR CHASES OTHER THAN THOSE SHOWN SHALL BE MADE WITHOUT APPROVAL.

C5 DO NOT PLACE CONDUITS, PIPES AND THE LIKE WITHIN CONCRETE COVER.

C6 SLABS AND BEAMS ARE TO BE POURED TOGETHER UNLESS NOTED OTHERWISE.

C7 WHERE REINFORCEMENT IS CONTINUOUS THROUGH A POUR BREAK, SCABBLE, REMOVE ALL LOOSE MATERIAL AND DAMPEN THE OLD FACE BEFORE POURING AGAINST IT.

C8 THE USE OF BLENDED CEMENTS, FLY ASH AND OR CHEMICAL AD-MIXTURES SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL.

C9 UNFORMED EXPOSED CONCRETE SURFACES SHALL HAVE AN APPROVED STEEL TROWELLED FINISH UNLESS SHOWN OTHERWISE.

C10 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

C11 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY AT LOCATIONS AND TO DETAILS SHOWN ON STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE.

C12 CONCRETE COVER TO REINFORCEMENT (INCLUDING LIGS) SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN. 60 MIN. FIRE RESISTANCE PERIOD ASSUMED.

EXPOSURE ENVIRONMENT	A.S. 3600 CAT.	ELEMENT	#	CONCRETE AS GRADE	COVER BIT
BELOW GROUND	A2	FOOTINGS	1	25	50
	A1	FOOTINGS	2	25	50
BUILDING INTERNAL	A1	SLAB BOT.	3	32	30
		SLAB	3	32	30
		SLAB	2	32	30
BUILDING EXTERNAL	B1	PANELS	2	40	35
		SLAB	2	40	40
		PANELS	2	40	40
		PANELS	2	40	30

#1 = CAST AGAINST GROUND
#2 = CAST AGAINST FORMWORK
#3 = CAST AGAINST FORTECON MEMBRANE

C13 REINFORCEMENT SHALL NOT BE CUT, WELDED, BENT OR HEATED ON SITE, NOR FITMENT OR SLAB STEEL BE DISPLACED MORE THAN 0.25 TIMES THE NOMINAL SPACING WITHOUT PRIOR APPROVAL.

C14 PLACE INDIVIDUAL BAR CHAIRS AT THE RATE OF 25 PER 10m² OF BOTTOM & TOP SLAB REINFORCEMENT AREA (750 CRS. APPROX) AND AS REQUIRED FOR ADEQUATE SUPPORT IN OTHER MEMBERS. ALL CHAIRS SUPPORTED ON APPROVED TYPE PLATES.

C15 REINFORCEMENT SHALL BE SECURELY WIRED IN PLACE WITHOUT WELDING, UNLESS APPROVED OTHERWISE.

C16 FABRIC SHALL BE RANDOM LAPPED WITH NO MORE THAN TWO SHEETS NESTED TOGETHER. USE ALTERNATIVE DETAIL AS REQUIRED. WHERE FABRIC ORIENTATION IS SHOWN, THIS BAR IS TO BE PLACED WITH MINIMUM COVER TO CONCRETE FACE. (ALTERNATIVE SHEETS WHERE FABRIC NESTED)

END LAP

TYPICAL DETAIL

ALTERNATIVE DETAIL

END LAPS NOT PERMITTED WITH ONE WAY FABRICS ABOVE RL818. END LAP WITH SPLICE BAR AT FOLLOWING CENTRES:
UP TO SL82 N12 @ 400 CRS.
SL92 N12 @ 300 CRS.
SL81 N12 @ 200 CRS.

SIDE LAP

TYPICAL DETAIL

ALTERNATIVE DETAIL AS ABOVE

C17 MESH ORIENTATION FOR WALLS - HORIZONTAL BAR TO BE PLACED TO THE OUTER FACE UNLESS OTHERWISE NOTED. WHERE FABRIC PLACEMENT IS NOT PRACTICAL REPLACE WITH N12@200 EW.

C18 REINFORCEMENT SYMBOLS AND GRADES:

R - DENOTES STRUCTURAL GRADE PLAIN ROUND (GRADE 250R)
N - DENOTES HOT ROLLED DEFORMED BAR (GRADE D600N) TO A.S. 4671
SL - DENOTES RIBBED REINFORCING FABRIC (GRADE D500L) TO A.S. 4671
W - DENOTES HARD-DRAWN PLAIN WIRE (GRADE D500L) TO A.S. 1303.

C19 TRIMMING STEEL NOT DESIGNATED SHALL BE:

ELEMENT	LOCATION	TRIMMING REINFORCEMENT	EXTEND BEYOND CROSS OVER POINT
SLABS	-INTERNAL CORNERS -PENETRATIONS -SETDOWNS >25 DEEP	2N16 EW TOP AT CORNERS	800

C20 MASONRY OR CONCRETE WALLS OR SIMILAR ELEMENTS MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK AND PROPS SUPPORTING THE SAME HAVE BEEN REMOVED.

PRECAST PANELS:

P1 CONCRETE SPECIFICATION TO AS 3600 N40 (28 DAYS MIN.) (REFER NOTE C2 ALSO). N40 E7 (FOR PANEL LIFT AT 7 DAYS)

P2 PANELS TO BE LIFTED USING REID SWIFTLIFT SYSTEM OR RAMSET SYSTEM.

P3 APPLY APPROVED FROM RELEASE AGENT BETWEEN STACK CAST PANELS AND TO CASTING BED.

P4 ALL PANELS TO BE BRACED IN ACCORDANCE WITH A.S.3850

P5 FOR PANEL JOINT DETAILS REFER ARCHITECT'S OR OTHER DRAWINGS.

P6 THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL REINFORCEMENT REQUIRED FOR LIFTING. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL PROPPING AND HANDLING. THE CONTRACTOR SHALL SUBMIT FULL SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCEMENT OF MANUFACTURING.

STEELWORK:

S1 WORKMANSHIP, MATERIALS AND DESIGN SHALL BE IN ACCORDANCE WITH A.S. 4100, ASSOCIATED CODES LISTED THEREIN AND THE SPECIFICATION.

S2 UNLESS NOTED OTHERWISE STEEL ELEMENTS SHALL BE OF THE FOLLOWING GRADES:
GENERAL SECTIONS - BHP 300+ (UB/UC/PFC/LARGE ANGLES)
- GRADE 350 TO AS 1163
- GRADE 250 TO AS 3678/3679
(OTHER SECTIONS)
RHS & SHS - GRADE 350 TO AS 1163
CHS <= 890 - GRADE 250 TO AS 1163
CHS >= 890 - GRADE 350 TO AS 1163
PURLINS & GIRTS - GRADE G450-Z200 TO AS 1397
DURALGAL - GRADE C450.LO TO AS 1163

S3 REFER TO ARCHITECT'S OR OTHER DRAWINGS FOR LINTELS, CLEATS AND MEMBERS NOT SPECIFICALLY SHOWN ON THESE DRAWINGS.

S4 BOLTING PROCEDURES ARE IDENTIFIED AS FOLLOWS:

BOLTING PROCEDURE	GRADE MPa	BOLT TO A.S.	METHOD OF INSTALLATION	NOTES
4.6/s	4.6	AS 1111	SNUG TIGHTENED	
8.8/s	8.8	AS 1252	SNUG TIGHTENED	
8.8/TF	8.8	AS 1252	FULLY TENSIONED LOAD INDICATOR WASHERS.	FRICTION TYPE JOINT
8.8/TB	8.8	AS 1252	FULLY TENSIONED LOAD INDICATOR WASHERS.	BEARING TYPE JOINT

ALL BOLTS TO BE OF SUCH LENGTH THAT AT LEAST ONE FULL THREAD IS EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED.

S5 UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE AS FOLLOWS:

CONNECTION LOCATION	BOLT NO. &/OR SIZE	PROCEDURE	CLEAT THICKNESS	NOTES
GENERAL MEMBERS	<200 MAX DIM 2/M16	4.6/s	8	WASHER UNDER ROTATING PART
	>200 2/M20	8.8/s	10	
PURLINS & GIRTS	2/M12	4.6/s	8	GALVANISED BOLTS
ROD BRACING	2 NUTS AS SPECIFIED AS LOCK NUTS EACH END	4.6/s	AS DETAILED	HALF MOON WASHER EACH END
HD BOLTS	AS DETAILED	4.6/s	AS DETAILED	50x50x6 WASHER UNDER NUT

NOTE: ALL BOLTS TO BE HOT DIP GALV. U.N.O.

S6 PURLINS SHALL BE SUPPLIED AS SPECIFIED WITH BRIDGING AND TIES TO MANUFACTURER'S SPECIFICATION OR 3000 MAXIMUM UNSUPPORTED LENGTH U.N.O. SUBSTITUTION SHALL NOT BE MADE UNLESS APPROVED.

S7 WELDING CATEGORIES SHALL BE AS FOLLOWS:
UNLESS NOTED OTHERWISE SP TO A.S. 1554
PURLIN AND GIRT CLEATS SP TO A.S. 1554

S8 UNLESS NOTED OTHERWISE ALL FILLET WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS, SP CATEGORY.

S9 ALL BUTT WELDS SHALL BE PRE-QUALIFIED COMPLETE PENETRATION SP CATEGORY AND SHALL UTILISE "RUN-ON RUN-OFF" PLATES.

S10 ELECTRODES SHALL BE:
E41xx OR E48xx TO A.S. 1553 FOR MMAW
W500 TO A.S. 2717 FOR GMAW
W500 TO A.S. 2203 FOR FCAW
W500 TO A.S. 1856 FOR SAW

S11 GROUT UNDER BASE PLATES SHALL BE 2:1 SAND/CEMENT MORTAR MIXED NEARLY DRY AND RAMMED HARD MINIMUM 20 THICK. ALTERNATIVELY USE MASTER BUILDER'S MASTERFLOW TYPE 870A CEMENT GROUT (FLOWABLE GRADE) 20 THICK.

S12 SUSPENDED CEILINGS, AIR CONDITIONING UNITS, DUCTWORK AND SUSPENDED PIPEWORK MUST BE SUITABLY SUPPORTED FROM THE WEB OF PURLINS. SUPPORT FROM THE FLANGE OF PURLINS SHALL NOT BE PERMITTED. LOADS FROM HEAVIER UNITS OR PLANT MUST BE SUITABLY DISTRIBUTED BETWEEN THREE (3) PURLINS.

S13 PREPARE AND PRIME PAINT STEEL AS FOLLOWS:

- INTERNAL STEELWORK
 - PREPARATION - AS 1627.4 CLASS 1
 - PRIME COAT - 50 MICRONS OF ZINC PHOSPHATE
- EXTERNAL STEELWORK
 - PREPARATION - AS 1627.4 CLASS 2.5
 - PRIME COAT - 75 MICRONS OF INORGANIC ZINC
 - ALL COATING TO BE FROM THE SAME MANUFACTURER AND SUBJECT TO ARCHITECT/ENGINEER APPROVAL

S14 STEELWORK TO BE HOT DIP GALVANISED IS AS DESCRIBED OR NOTED AS (GALV) ON THE PROJECT DRAWINGS. PREPARE TO CLASS 2 / AS 1627.4. MAKE GOOD DAMAGE TO GALVANISING WITH "DIMET GALVANITE" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION FOR BARRIER AND/OR FINISH COATS.

SHOP DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS FOR ALL STEELWORK, INCLUDING TEMPORARY FALSEWORK AND ERECTION EQUIPMENT.

ALL SHOP DRAWINGS SHALL BE SUBMITTED IN PDF AND IFC FORMAT TO THE SUPERINTENDENT FOR REVIEW NOT LESS THAN 21 DAYS PRIOR TO THE ANTICIPATED DATE OF COMMENCEMENT OF FABRICATION. DRAWINGS WILL BE RETURNED TO THE CONTRACTOR WITH THE SUPERINTENDENT'S COMMENTS AND/OR ACCEPTANCE IN WRITING WITHIN 14 DAYS AFTER SUCH SUBMISSION. FABRICATION SHALL NOT COMMENCE UNTIL RECEIPT OF THE SUPERINTENDENT'S WRITTEN ACCEPTANCE.

THE DRAWINGS SHALL SHOW FULL AND COMPLETE INFORMATION REGARDING THE SIZE, LOCATION AND TYPE OF WELDS AND THE SEQUENCE THAT SHALL BE EMPLOYED TO MINIMISE CONSTRUCTION STRESSES AND DISTORTION. THE APPROVED WELDING PROCEDURES SHALL BE FULLY DETAILED ON THE SHOP DRAWINGS AND STRICTLY ADHERED TO IN PRODUCTION.

REVIEW BY THE SUPERINTENDENT SHALL INDICATE THAT THE GENERAL REQUIREMENTS OF THE DESIGN HAVE BEEN SATISFIED. REVIEW SHALL NOT BE TAKEN TO INFER THAT THE DETAILS, DIMENSIONS OR THE CORRECT MATCHING OF CONNECTIONS OR JOINTS HAS BEEN CHECKED AND THIS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

DRAWINGS SUBMITTED FOR REVIEW SHALL BE OF GOOD STANDARD AND ANY DRAWING THAT CLEARLY REQUIRES CONSIDERABLE AMENDMENT WILL BE RETURNED FOR ALTERATION, WITHOUT A REVIEW OF THE CORRECTIONS THAT MAY BE REQUIRED. FOLLOWING ALTERATIONS THE DRAWINGS SHALL BE RESUBMITTED, AND SHALL BEAR A REVISION NUMBER OR LETTER WITH ALL MODIFICATIONS BEING CLEARLY INDICATED. DRAWINGS SHALL BE TO AS 1100, WELDING SYMBOLS TO AS 1101 AND WELDING DEFINITIONS TO AS 2812.

ABBREVIATIONS: (REFER A.S. CZ1 PART 2)

BOTTOM
BRICK/BLOCK CONTROL JOINT
CAST IN PLATE
CONSTRUCTION JOINT
CONTINUOUS FILLET WELD
CONTROL JOINT
DIAMETER
EACH FACE
EACH WAY
EXISTING SURFACE LEVEL
EXPANSION JOINT
FAR FACE
FINISHED FLOOR LEVEL
FULL STRENGTH BUTT WELD
FINISHED SURFACE LEVEL
GALVANISED
GROUND SURFACE LEVEL AS CUT
KILOPASCAL
LIVE LOAD
MEGAPASCAL
NEAR FACE
REDUCED LEVEL
TOP AND BOTTOM
UNLESS NOTED OTHERWISE

BOT
BCJ
CIP
CJ
CFW
CONT J
DIA (OR Ø)
EF
EW
ESL
EJ
FF
FFL
FSBW
FSL
GALV
GSL
kPa
LL
MPa
NF
RL
T&B
UNO

P2 03/10/25 PRELIMINARY ISSUE
P1 06/06/25 PRELIMINARY ISSUE
REV DATE REMARK

SAFETY IN DESIGN REPORT PER WHS REGULATIONS

The following table which sets out the design team's responsibilities under the Act to identify, report, mitigate and manage all aspects of risk and safety.	NIL
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PROJECT
**ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER**
TITLE
**STRUCTURAL
NOTES SHEET**

Accepted R.CHILD (Discipline Head)	Date 03/10/2025
Accepted R.CHILD (Team Leader)	Date 03/10/2025
Approved C.MALES (Principal)	Date 03/10/2025
This document must be signed 'Approved' by JMG to authorise it for use. JMG accept no liability whatsoever for unauthorised or unlicensed use.	
SCALES @ A1	DESIGNED BY
1:100	R.BRUNNING
	C.ZEMANEK
PLOT DATE	03/10/2025

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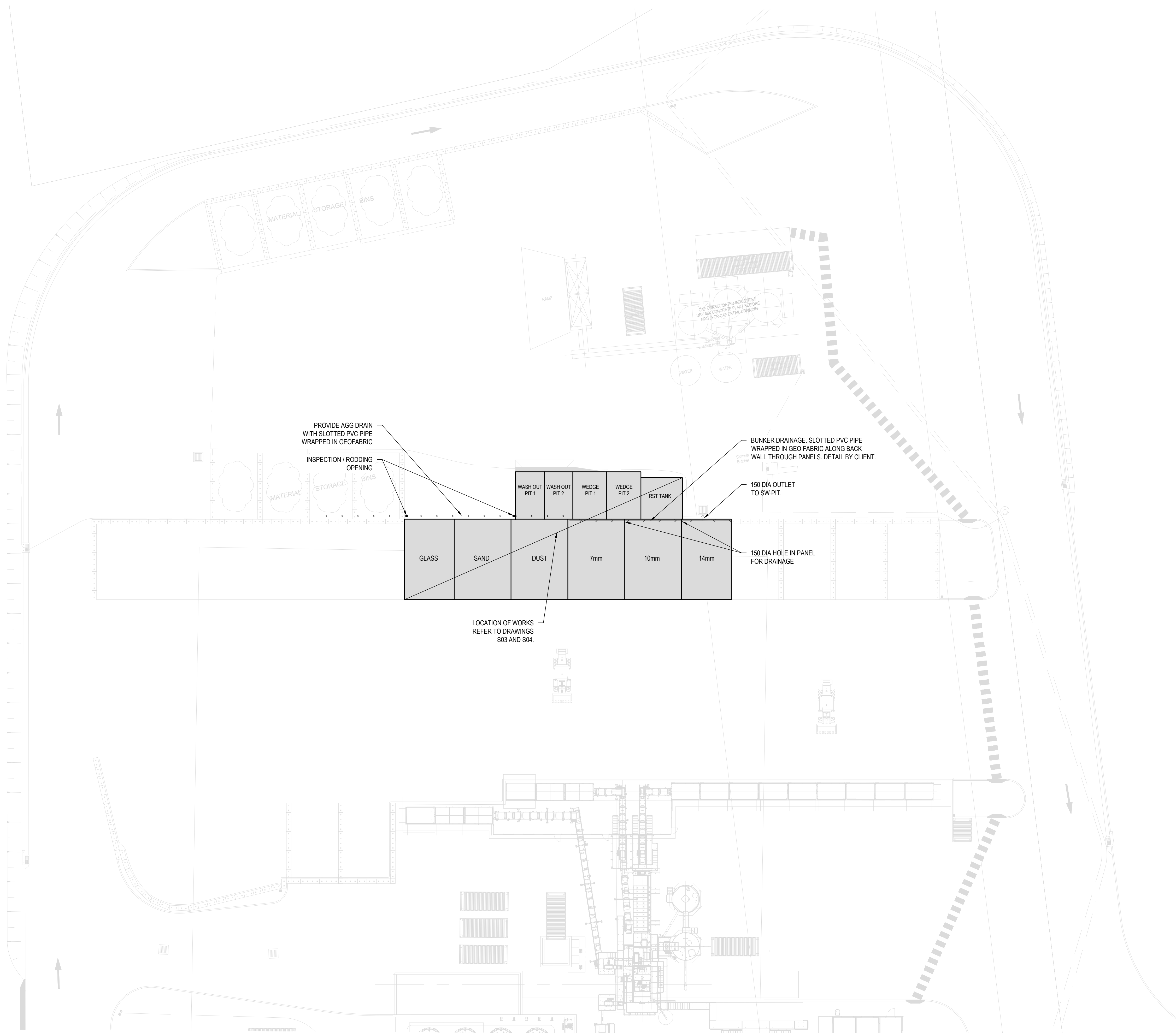
PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

PROJECT NO. **240559CS**

DWG NO. **S01** REVISION **P1**

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WORK IN PROGRESS
NOT FOR CONSTRUCTION



SITE PLAN
SCALE: 1:250

WORK IN PROGRESS
NOT FOR CONSTRUCTION

P2	03.10.25	PRELIMINARY ISSUE
P1	06.06.25	PRELIMINARY ISSUE
REV	DATE	REMARK

SAFETY IN DESIGN REPORT PER WHS REGULATIONS	
The following table shows the status of the design to this design have been identified.	N/A
This report does not release contractors from their responsibilities under the Act to identify, report, mitigate and manage all aspects of risk and safety.	

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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER

TITLE
STRUCTURAL
SITE PLAN

Accepted R.CHILD (Discipline Head)	Date 03/10/2025
Accepted R.CHILD (Team Leader)	Date 03/10/2025
Approved C.MALES (Principal)	Date 03/10/2025

This document must be signed 'Approved' by JMG to authorise it for use. JMG accept no liability whatsoever for unauthorised or unlicensed use.

SCALES @ A1 1:100	DESIGNED BY R.BRUNNING	DRAWN BY C.ZEMANEK
	PLOT DATE 03/10/2025	

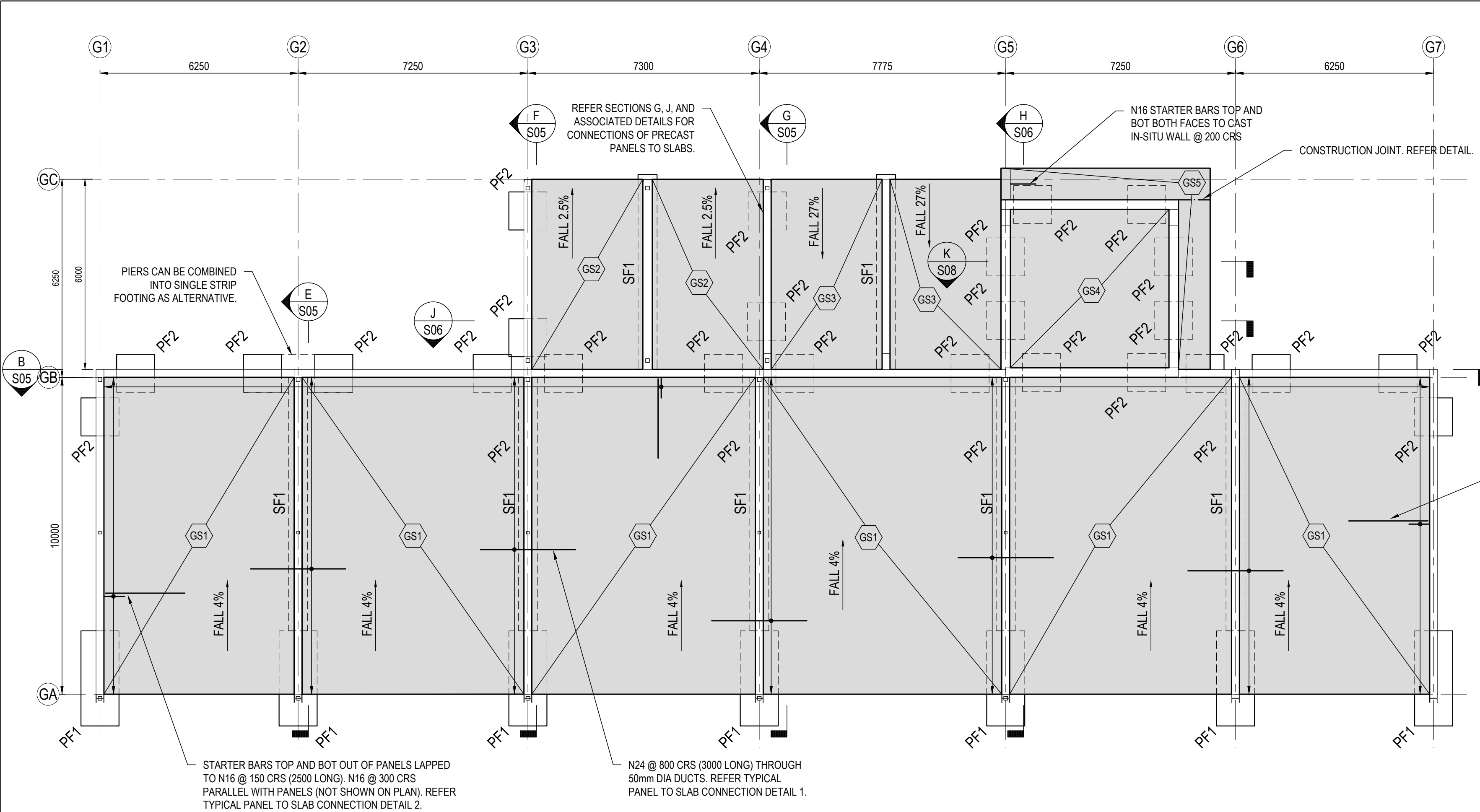
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PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

PROJECT NO. 240559CS

DWG NO.	REVISION
S02	P1

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FOOTING AND SLAB PLAN

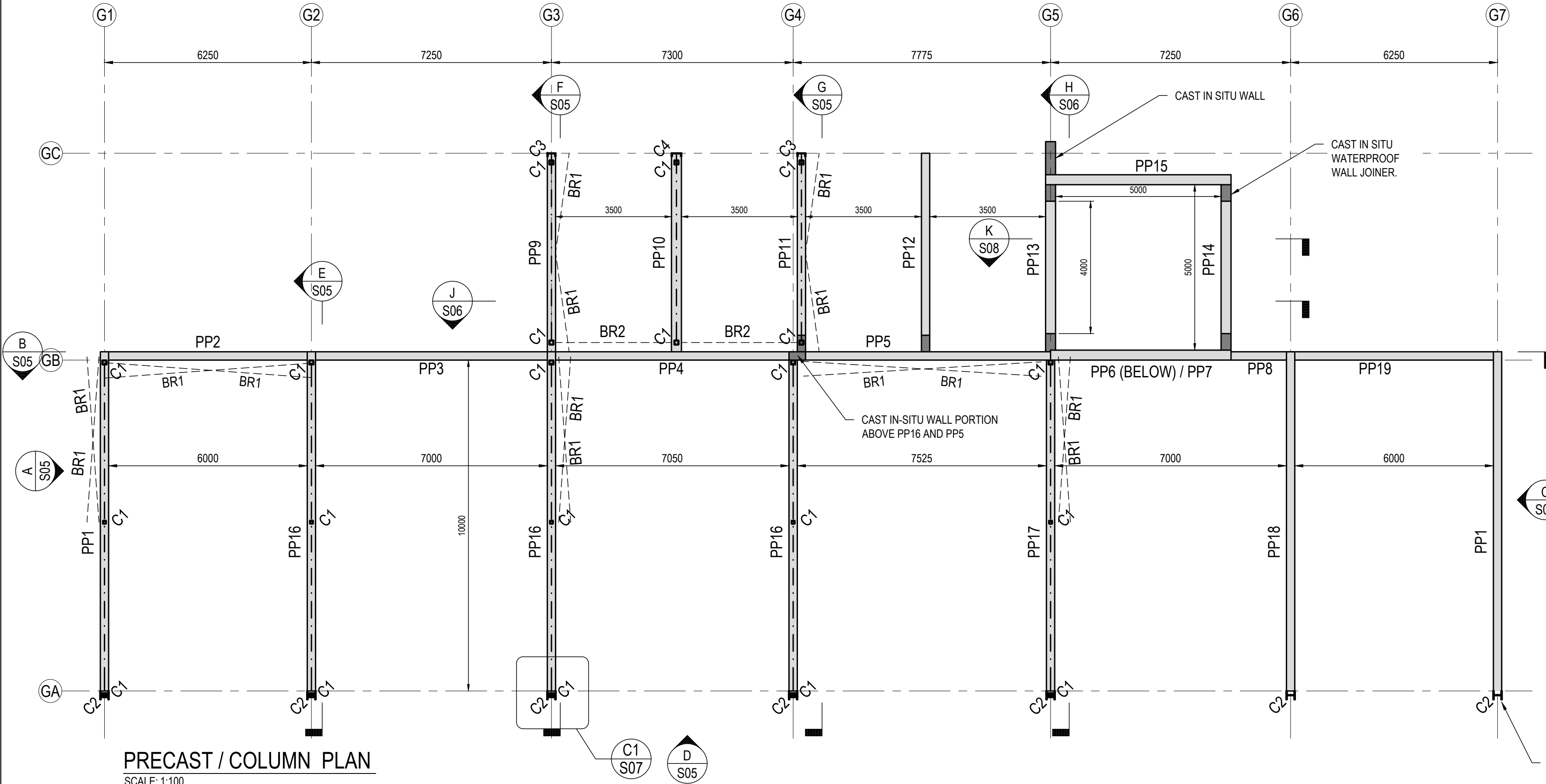
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FOOTING MARKING SCHEDULE		
MARK	DIMENSIONS	REINFORCEMENT / COMMENTS
PF1	1200w x 3000L x 600(MIN.)d	5N16 TOP & BOT. N16 U BARS TOP AND BOT @ 200 CRS.
PF2	1200w x 1200L x 600(MIN.)d	MASS CONCRETE
SF1	600w x 450(MIN.)d	4N16 TOP AND BOT

SLAB MARKING SCHEDULE		
MARK	THICKNESS	REINFORCEMENT / COMMENTS
GS1	250	SL92 TOP AND BOT. N16 PERIMETER TOP AND BOT. REFER SECTIONS FOR ADDITIONAL REINFORCEMENT. N50 CONCRETE. 30mm COVER.
GS2	250	SL92 TOP AND BOT. N16 PERIMETER BAR TOP AND BOT. REFER SECTIONS FOR ADDITIONAL REINFORCING. 30 COVER.
GS3	250	N16 @ 150 CRS E.W. TOP AND BOT
GS4	300	N16 @ 150 CRS E.W. TOP AND BOT
GS5	250	1000 WIDE. N16 @ 200 CRS E.W. TOP AND BOT.

COLUMN MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
C1	125 x 5 SHS	CAST INTO PANEL
C2	250UC89	C1 COLUMN OVER
C3	250 PFC	CAST INTO PANEL
C4	300 PFC	COLUMN ON TOP OF PANEL OR C2

PRECAST MARKING SCHEDULE		
MARK	THICKNESS	REINFORCEMENT / COMMENTS
PP1	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP2	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. DRAINAGE HOLES 50mm DIA @ 600 CRS.
PP3	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. DRAINAGE HOLES 50mm DIA @ 600 CRS.
PP4	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. ADDITIONAL REID INSERTS FOR CONNECTION TO GS2 SLAB. DRAINAGE HOLES 50mm DIA @ 600 CRS.
PP5	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP6	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP7	300	N16 VERTICAL BARS @ 300 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F.
PP8	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F.
PP9	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP10	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1.
PP11	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTERS AS PER DETAIL C8. INSERTS AS PER DETAIL C9.
PP12	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. DUCTS AS PER DETAIL C7.
PP13	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. INSERTS AS PER DETAIL C6.
PP14	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. INSERTS AS PER DETAIL C5.
PP15	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP16	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1.
PP17	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1. 150 DIA HOLE FOR DRAINAGE.
PP18	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1. 150 DIA HOLE FOR DRAINAGE.
PP19	250	N12 VERTICAL BARS @ 100 CRS E.F. N12 HORIZONTAL BARS @ 100 CRS E.F. 1N12 PERIMETER BAR E.F.



PRECAST / COLUMN PLAN

SCALE: 1:100

PROTECT ENDS OF PANELS WITH BOLLARDS. NOTE PANELS AND COLUMNS ARE NOT DESIGNED FOR IMPACT LOADS.

WORK IN PROGRESS
NOT FOR CONSTRUCTION

P2	03.10.25	PRELIMINARY ISSUE
P1	06.06.25	PRELIMINARY ISSUE
REV	DATE	REMARK

SAFETY IN DESIGN REPORT PER WHS REGULATIONS	
The following table shows the status of the design and the status of the design.	N/A
This report does not release contractors from their responsibilities under the Act to identify, report, mitigate and manage all aspects of risk and safety.	

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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER

TITLE
STRUCTURAL
FOOTING, SLAB, COLUMN
AND WALL PLAN

Accepted R.CHILD (Discipline Head)	Date 03/10/2025
Accepted R.CHILD (Team Leader)	Date 03/10/2025
Approved C.MALES (Principal)	Date 03/10/2025

SCALES @ A1	DESIGNED BY	DRAWN BY
1:100	R.BRUNNING	C.ZEMANEK
PLOT DATE	03/10/2025	

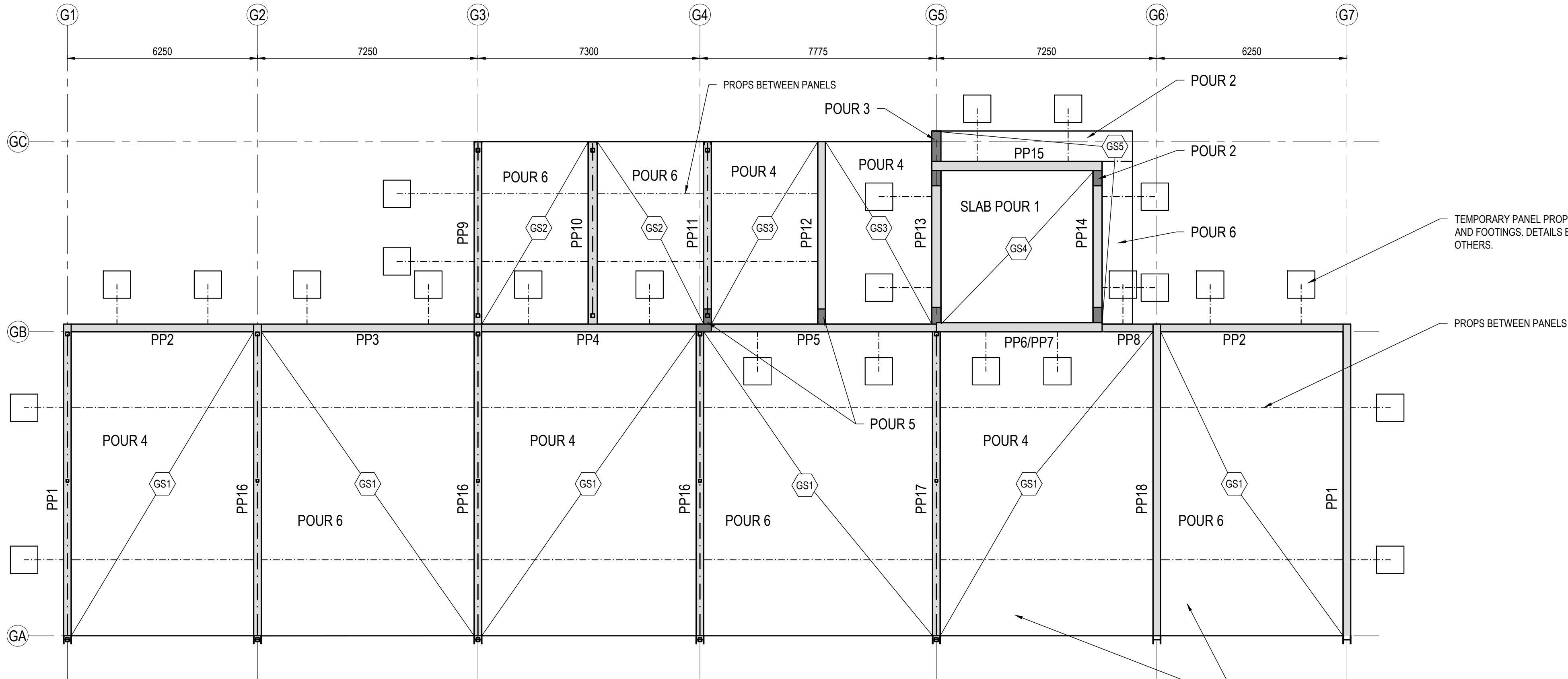
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PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

PROJECT NO. 240559CS

DWG NO.	REVISION
S03	P1

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PANEL PROPPING ARRANGEMENT
SCALE: 1:100

NOTE: PRELIMINARY INFORMATION ONLY. PROPPING AND TEMPORARY FOOTINGS TO BE PROVIDED AS PART OF TEMPORARY WORKS DESIGN.

NOTE: POUR SEQUENCE IS FOR GUIDANCE. SOME POURS MAY BE COMBINED WITH APPROVAL FROM THIS OFFICE.

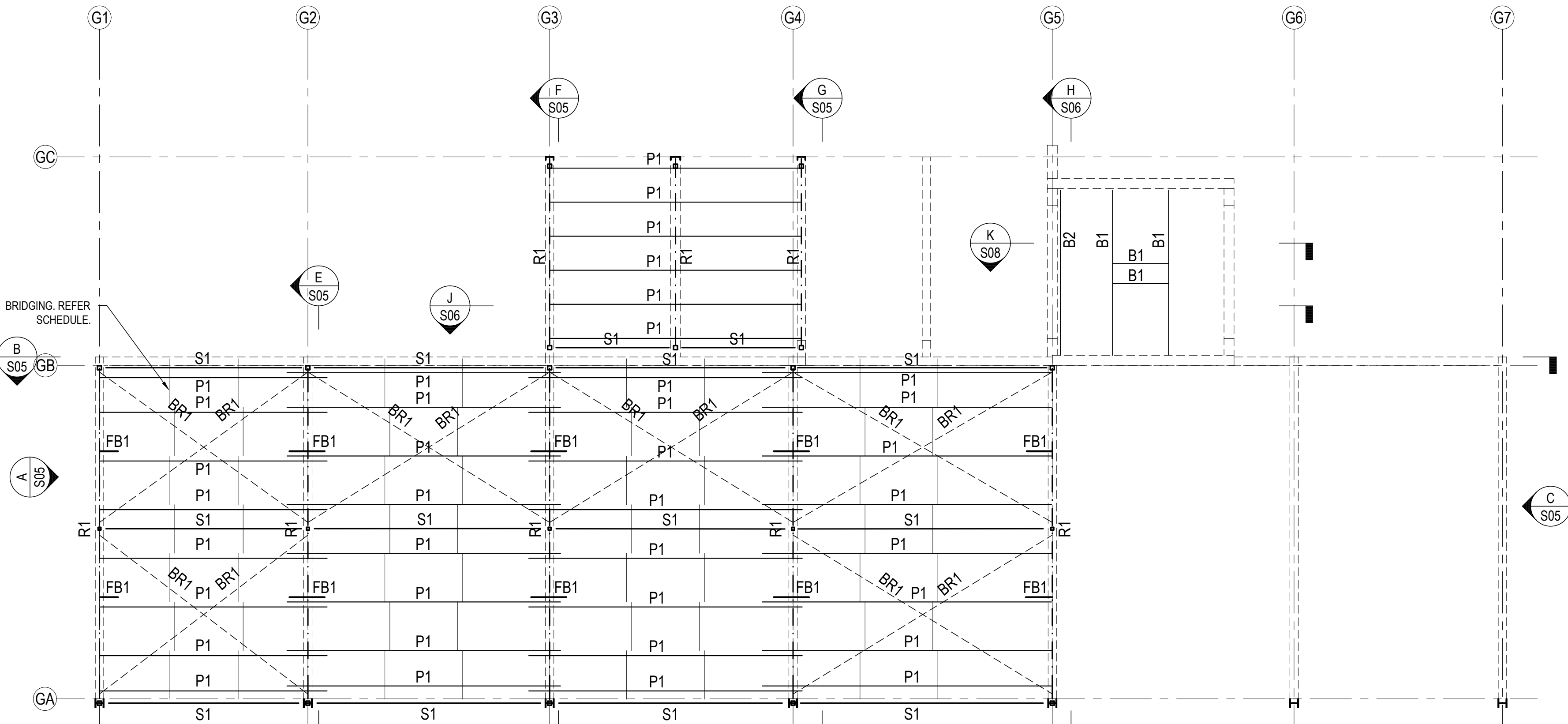
PROPS CAN BE REMOVED 7 DAYS AFTER POUR 4 FOR POUR 6.

FRAMING MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
B1	250 PFC	
B2	65 x 6 EA	
R1	200 UB 22	
S1	100 x 5 SHS	
BR1	16 Ø REIDBRACE	
BR2	75 x 5 EA	
P1	Z 20019 LAPPED	2 ROWS BRIDGING. 1200 CRS MAX. LAPPED AS SHOWN ON PLAN
G1	Z 20019 LAPPED	2 ROWS BRIDGING. LAPPED AS SHOWN ON ELEVATIONS.
FB1	50 x 5 EA	

COLUMN MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
C1	125 x 5 SHS	CAST INTO PANEL
C2	250UC89	C1 COLUMN OVER
C3	250 PFC	CAST INTO PANEL
C4	300 PFC	COLUMN ON TOP OF PANEL OR C2

SLAB MARKING SCHEDULE		
MARK	THICKNESS	REINFORCEMENT / COMMENTS
GS1	250	SL92 TOP AND BOT. N16 PERIMETER TOP AND BOT. REFER SECTIONS FOR ADDITIONAL REINFORCEMENT. N50 CONCRETE. 30mm COVER.
GS2	250	SL92 TOP AND BOT. N16 PERIMETER BAR TOP AND BOT. REFER SECTIONS FOR ADDITIONAL REINFORCING. 30 COVER.
GS3	250	N16 @ 150 CRS E.W. TOP AND BOT
GS4	300	N16 @ 150 CRS E.W. TOP AND BOT
GS5	250	1000 WIDE. N16 @ 200 CRS E.W. TOP AND BOT.

PRECAST MARKING SCHEDULE		
MARK	THICKNESS	REINFORCEMENT / COMMENTS
PP1	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP2	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. DRAINAGE HOLES 50mm DIA @ 600 CRS.
PP3	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. DRAINAGE HOLES 50mm DIA @ 600 CRS.
PP4	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. ADDITIONAL REID INSERTS FOR CONNECTION TO GS2 SLAB. DRAINAGE HOLES 50mm DIA @ 600 CRS.
PP5	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP6	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP7	300	N16 VERTICAL BARS @ 300 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F.
PP8	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F.
PP9	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP10	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1.
PP11	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTERS AS PER DETAIL C8. INSERTS AS PER DETAIL C9.
PP12	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. DUCTS AS PER DETAIL C7.
PP13	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. INSERTS AS PER DETAIL C8.
PP14	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2. INSERTS AS PER DETAIL C5.
PP15	300	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. STARTER BARS AS PER TYPICAL PANEL TO SLAB CONNECTION DETAIL 2.
PP16	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1. 150 DIA HOLE FOR DRAINAGE.
PP17	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1. 150 DIA HOLE FOR DRAINAGE.
PP18	250	N16 VERTICAL BARS @ 150 CRS E.F. N16 HORIZONTAL BARS @ 200 CRS E.F. 1N12 PERIMETER BAR E.F. 50mm DIA DUCTS @ 800 CRS. REFER TYPICAL PANEL TO SLAB CONNECTION DETAIL 1. 150 DIA HOLE FOR DRAINAGE.
PP19	250	N12 VERTICAL BARS @ 100 CRS E.F. N12 HORIZONTAL BARS @ 100 CRS E.F. 1N12 PERIMETER BAR E.F.



FRAMING PLAN
SCALE: 1:100

D S05

F S05

G S05

H S06

K S08

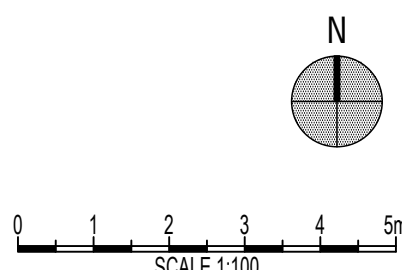
J S06

E S05

B S05

A S05

C S05



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P2	03.10.25	PRELIMINARY ISSUE
P1	06.06.25	PRELIMINARY ISSUE
REV	DATE	REMARK

SAFETY IN DESIGN REPORT PER WHS REGULATIONS	
The following table shows the status of this design. Have been identified.	Nil
This report does not release contractors from their responsibilities under the Act to identify, report, mitigate and manage all aspects of risk and safety.	

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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER

TITLE
STRUCTURAL
PANEL PROPPING AND
FRAMING PLAN

Accepted R.CHILD (Discipline Head)	Date
Accepted R.CHILD (Team Leader)	Date
Approved C.MALES (Principal)	Date

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1:100	R.BRUNNING	C.ZEMANEK
PLOT DATE	03/10/2025	

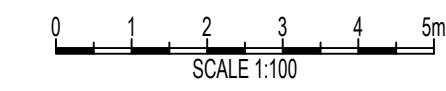
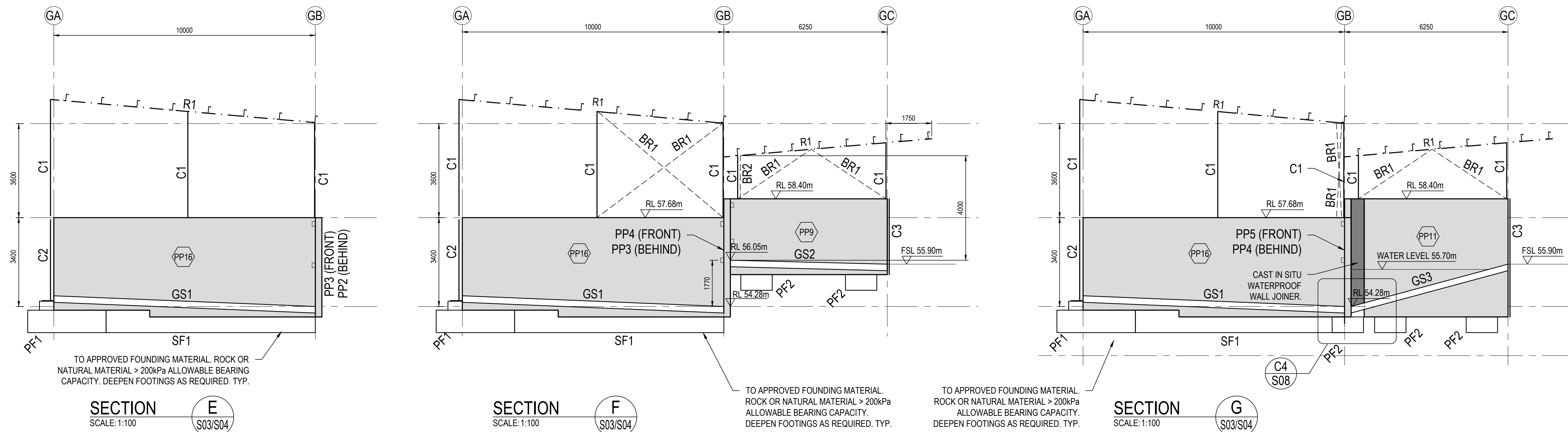
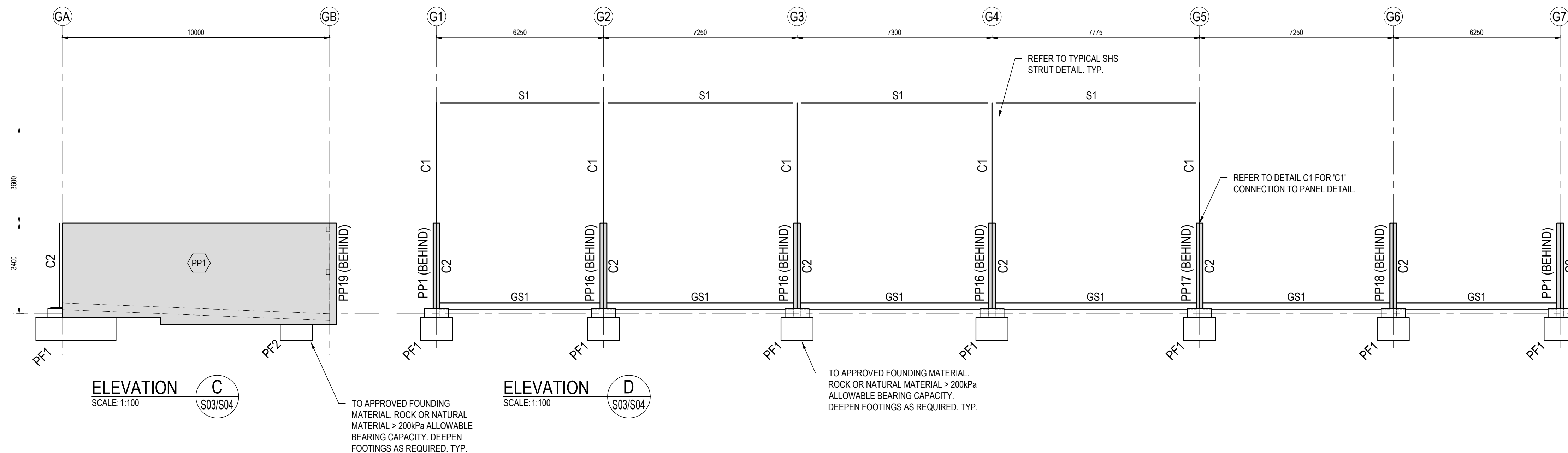
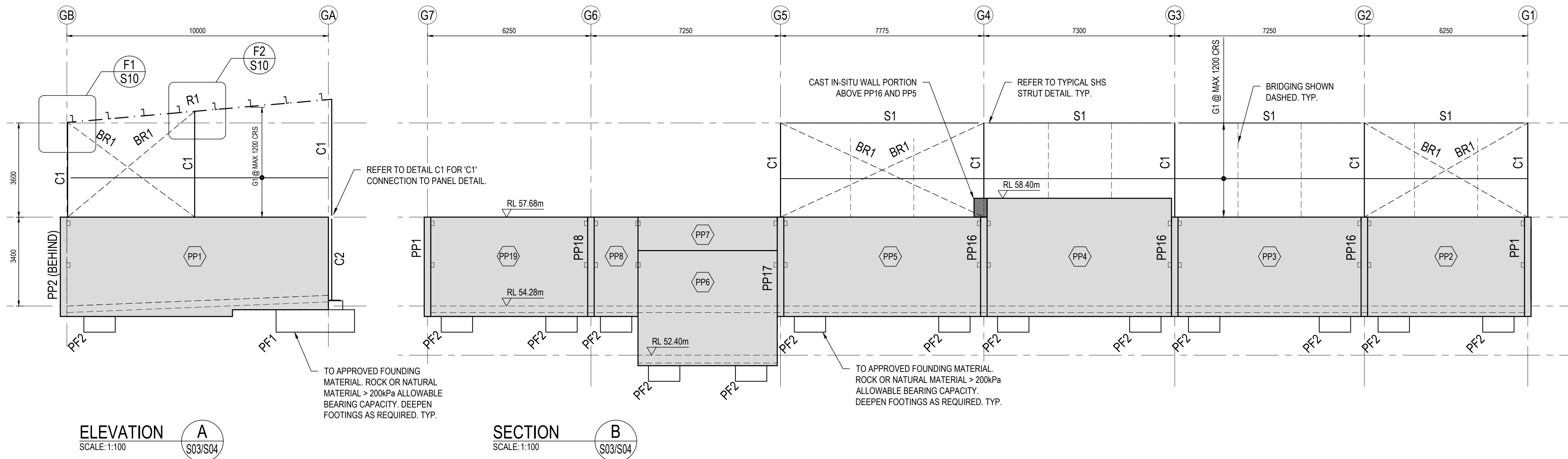
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PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

PROJECT NO. 240559CS

DWG NO.	REVISION
S04	P1

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P2 03.10.25 PRELIMINARY ISSUE
P1 06.06.25 PRELIMINARY ISSUE
REV DATE REMARK

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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER

TITLE
STRUCTURAL
PRECAST AND FRAMING
ELEVATIONS / SECTIONS 1

Accepted R.CHILD (Discipline Head) Date 03/10/2025
Accepted R.CHILD (Team Leader) Date 03/10/2025
Approved C.MALES (Principal) Date 03/10/2025

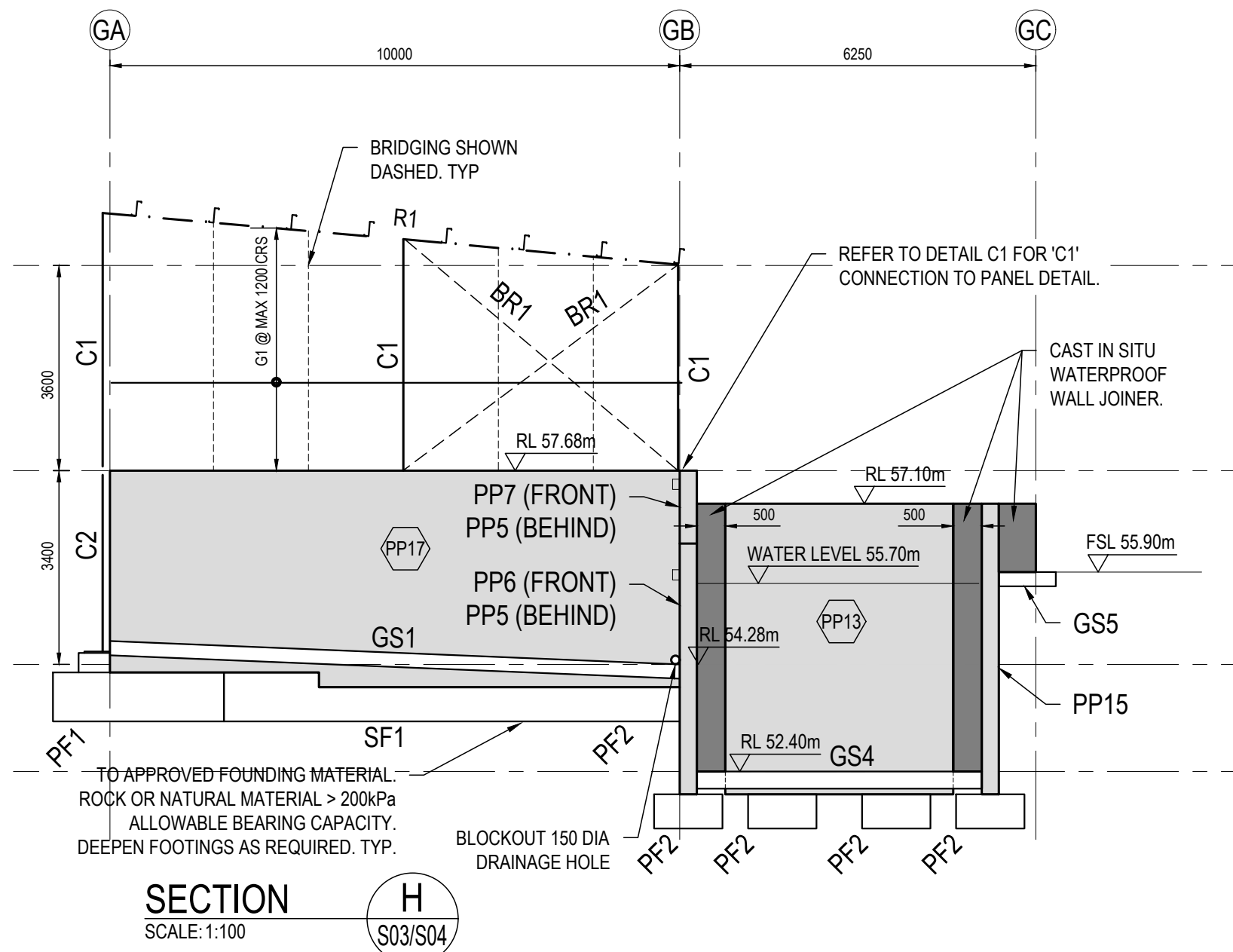
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SCALES @ A1 DESIGNED BY R.BRUNNING DRAWN BY C.ZEMANEK
1:100 PLOT DATE 03/10/2025

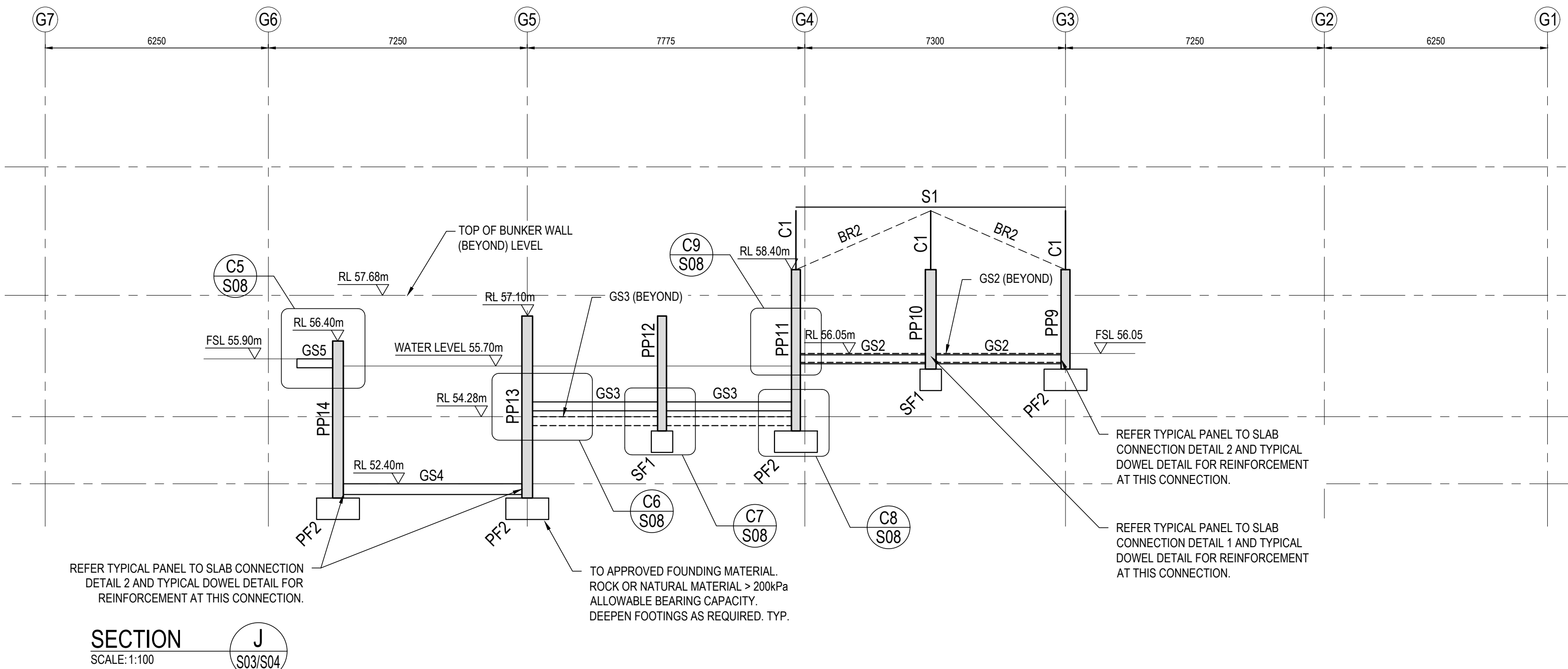
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PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG
PROJECT NO. 240559CS
DWG NO. S05 **REVISION** P1

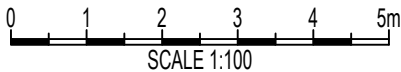
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SECTION H
SCALE: 1:100
S03/S04



SECTION J
SCALE: 1:100
S03/S04



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P2	03.10.25	PRELIMINARY ISSUE
P1	06.06.25	PRELIMINARY ISSUE
REV	DATE	REMARK
SAFETY IN DESIGN REPORT PER WHS REGULATIONS		
The following table which sets out the approach to this design have been identified.		N/A
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PROJECT

ASPHALT BATCHING PLANT

1 CROOKED BILLET DRIVE

BRIDGEWATER

TITLE

STRUCTURAL

PRECAST AND FRAMING

ELEVATIONS / SECTIONS 2

Accepted R.CHILD
(Discipline Head)

Date

03/10/2025

Accepted R.CHILD
(Team Leader)

Date

03/10/2025

Approved C.MALES
(Principal)

Date

03/10/2025

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DESIGNED BY

DRAWN BY

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R.BRUNNING

C.ZEMANEK

PLOT DATE

03/10/2025

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PLOT DETAILS

240559CS-S-STORE BUNKERS DWG

PROJECT NO.

240559CS

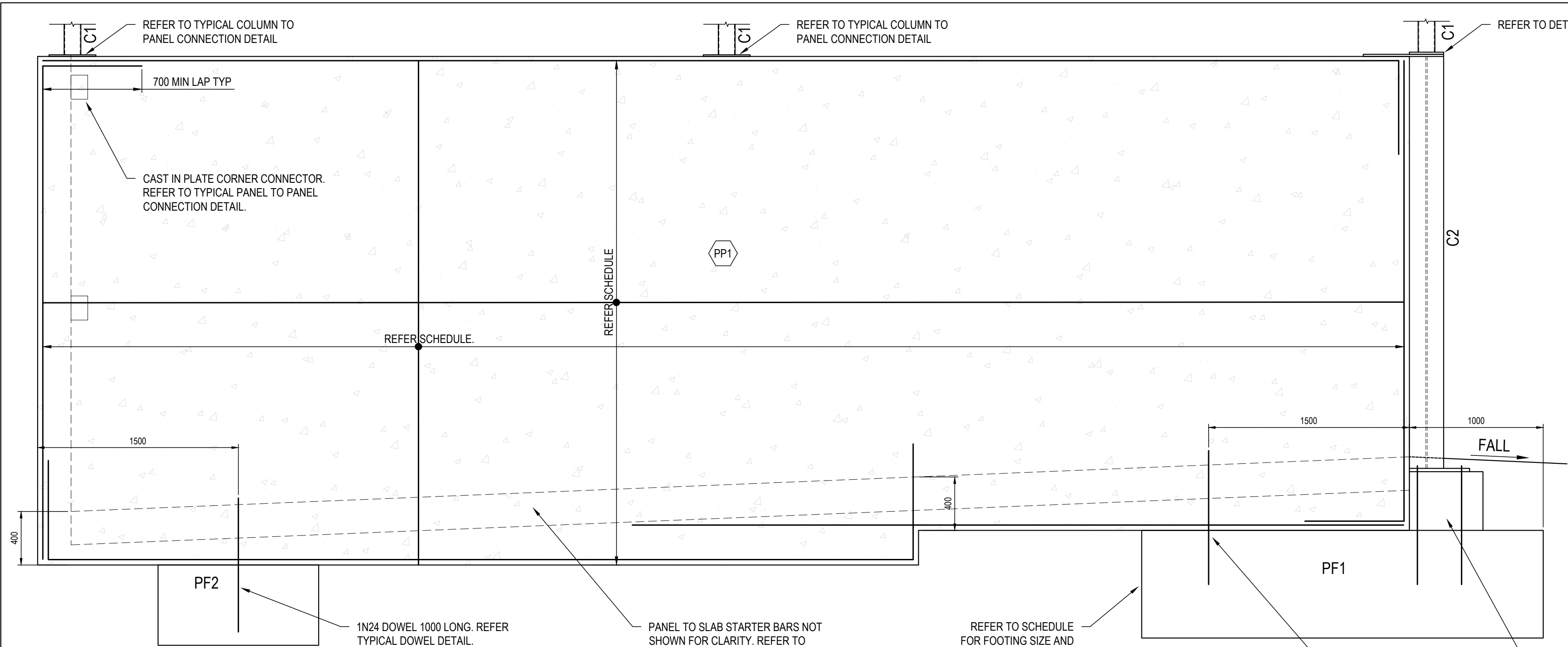
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S06

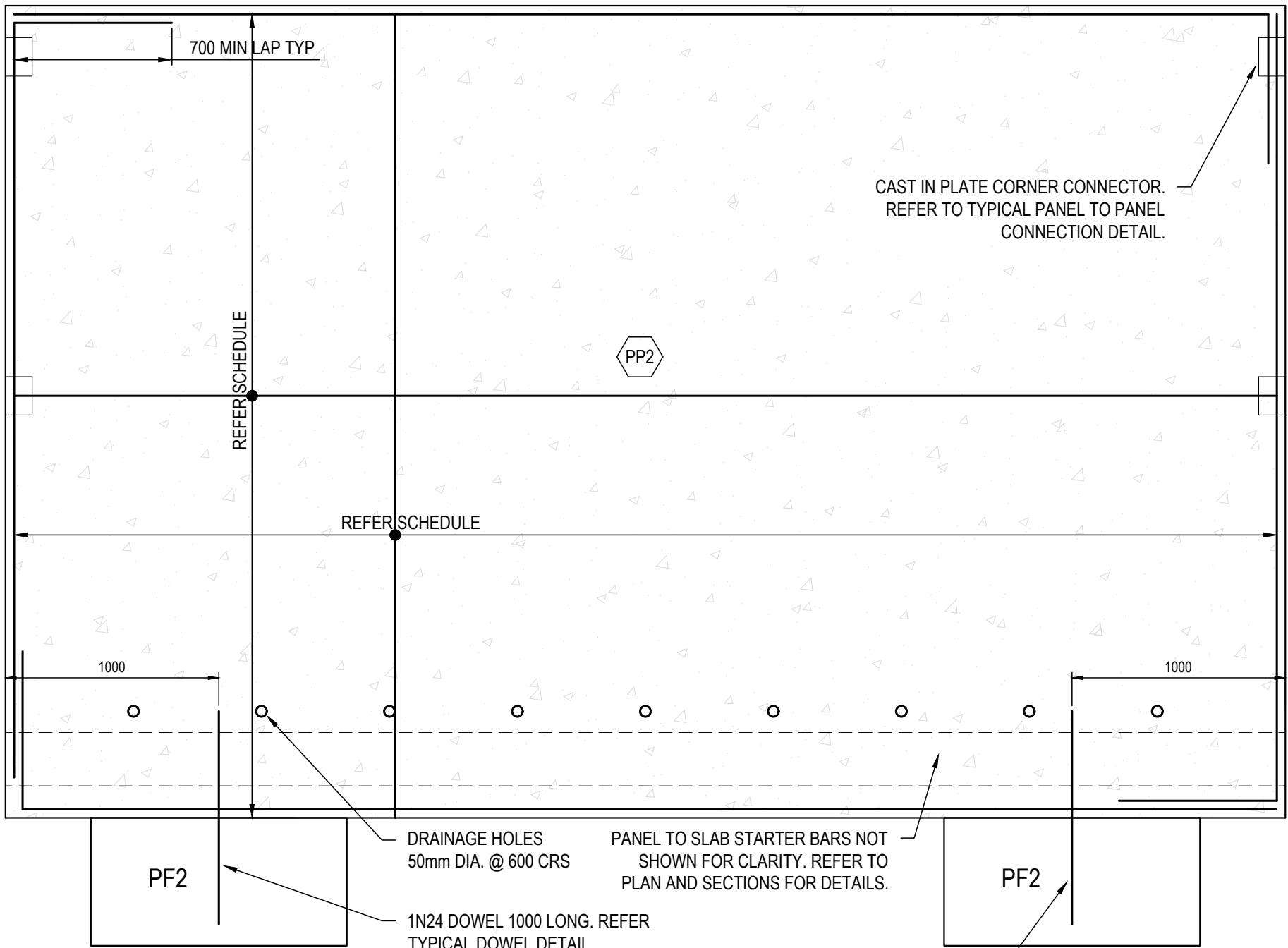
REVISION

P1

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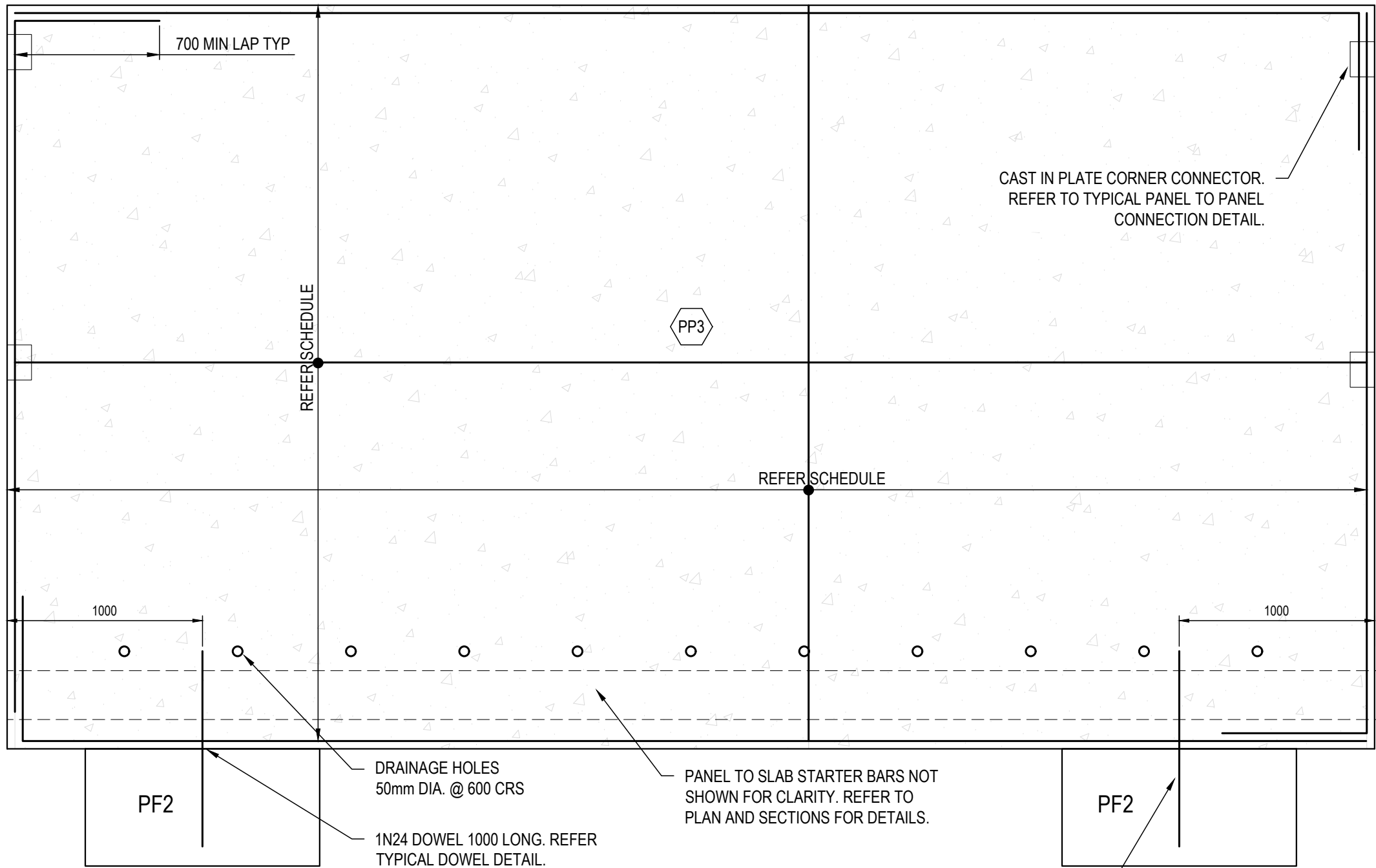


TYPICAL PP1 ELEVATION
SCALE: 1:25



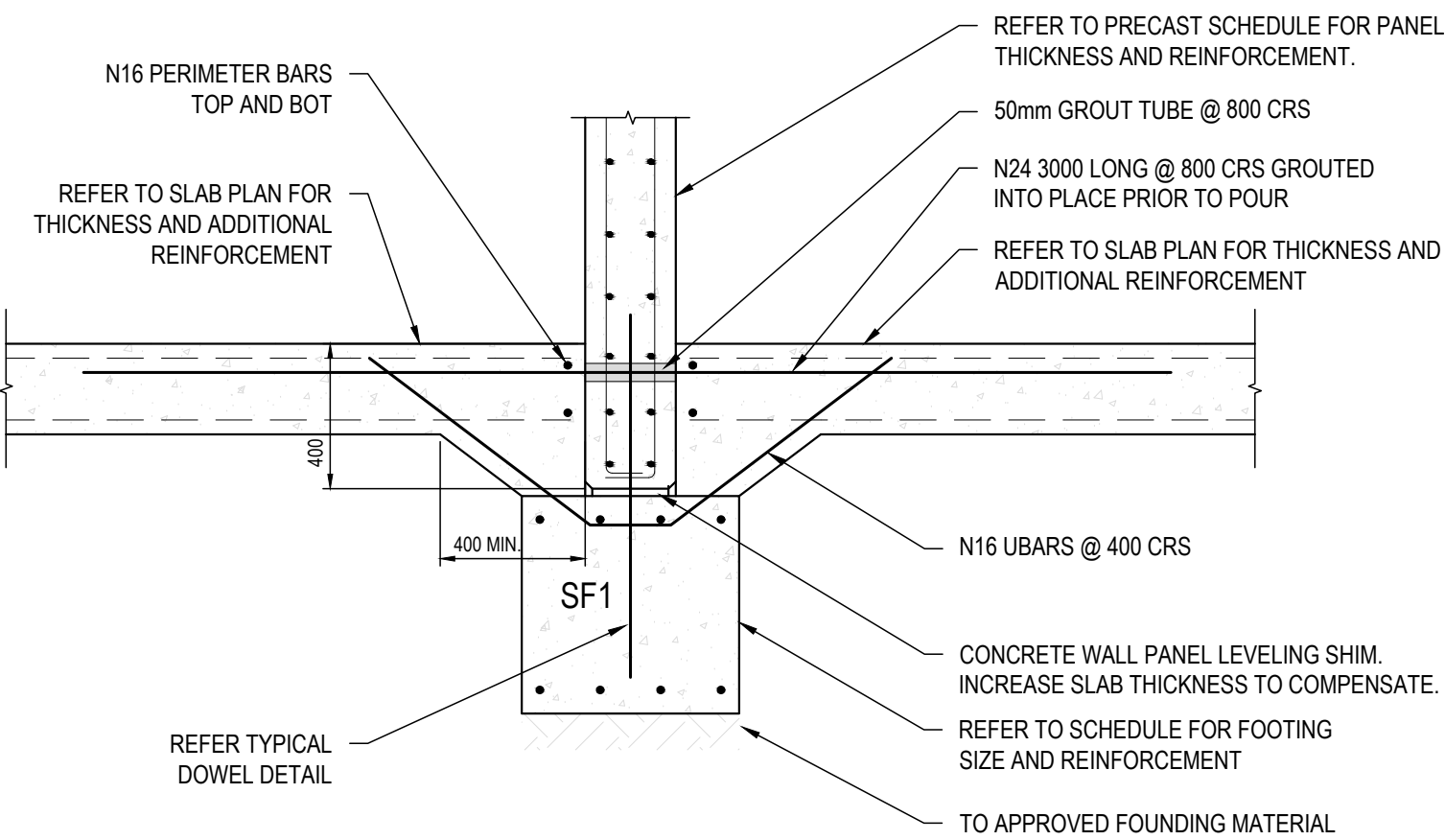
TYPICAL PP2 ELEVATION
SCALE: 1:25

REFER TO DETAIL -- FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.



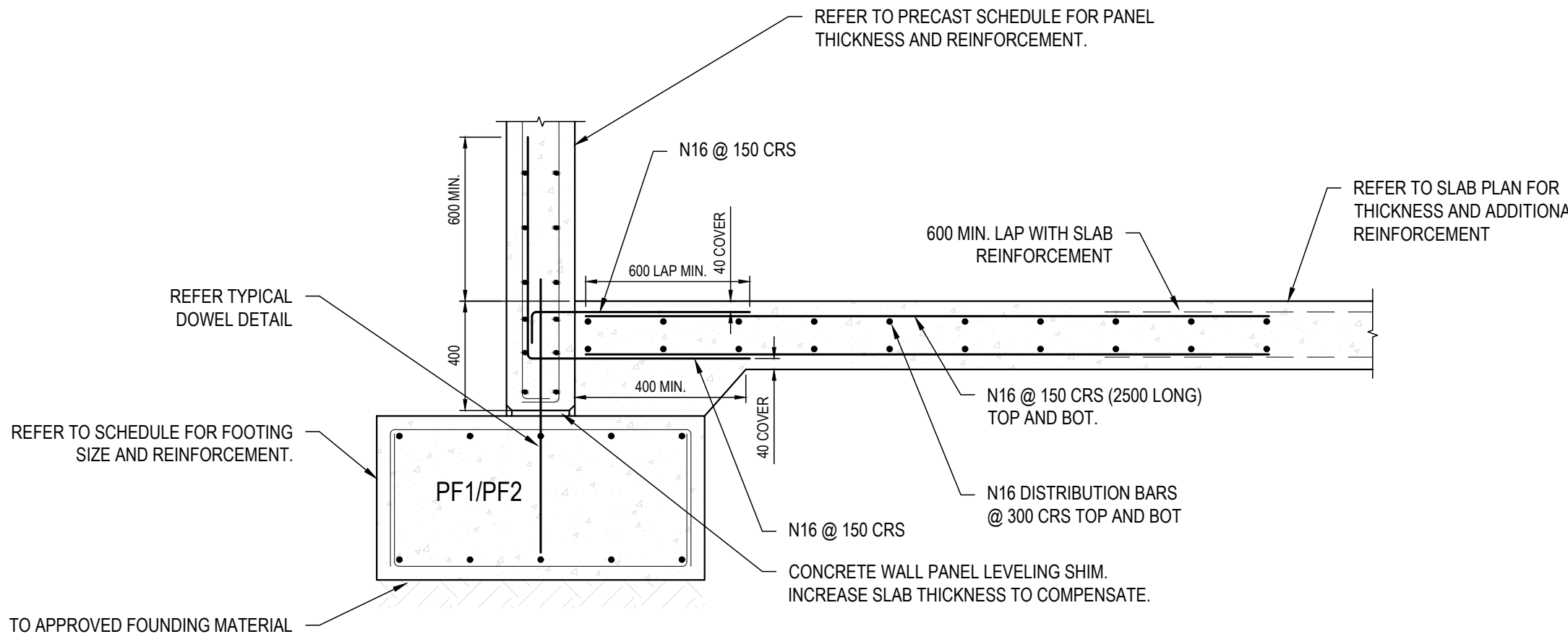
TYPICAL PP3 ELEVATION
SCALE: 1:25

REFER TO DETAIL -- FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.



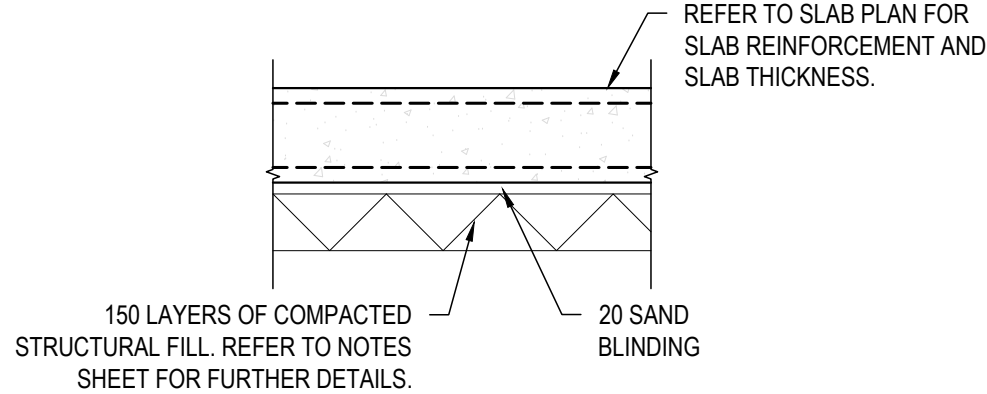
TYPICAL PANEL TO SLAB CONNECTION DETAIL 1
SCALE: 1:20

NOTE: CONNECTION OF INTERNAL WALLS TO SLAB ONLY.

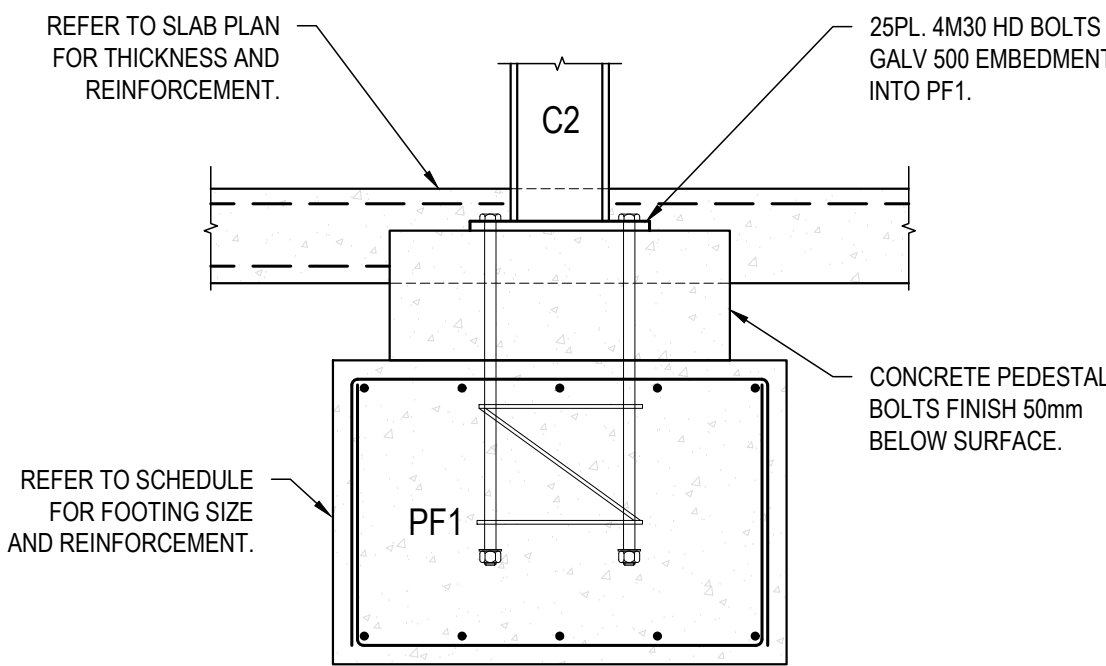


TYPICAL PANEL TO SLAB CONNECTION DETAIL 2
SCALE: 1:20

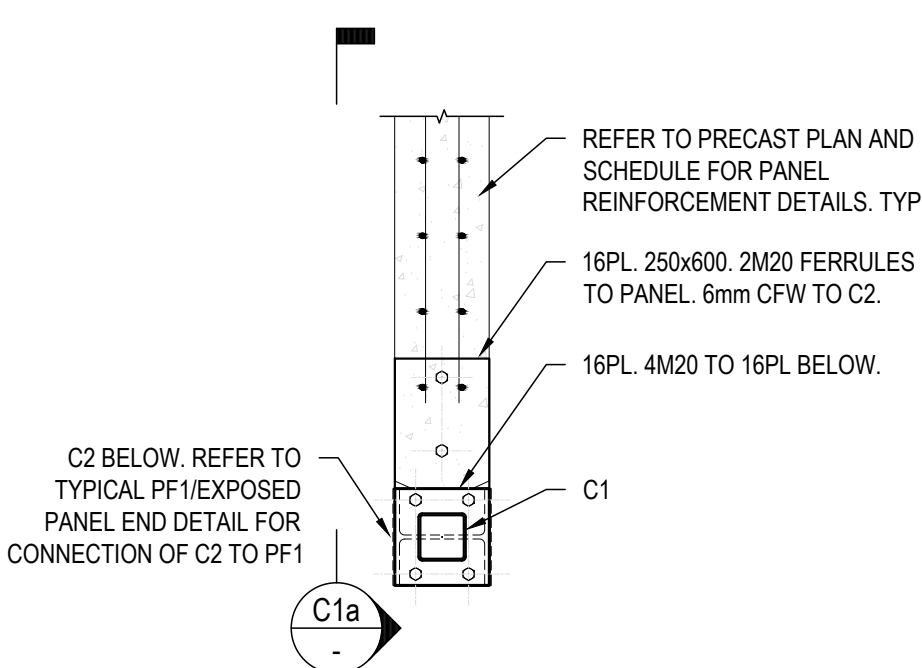
NOTE: CONNECTION OF INTERNAL WALLS TO SLAB ONLY.



TYPICAL SLAB ON GRADE DETAIL
SCALE: N.T.S

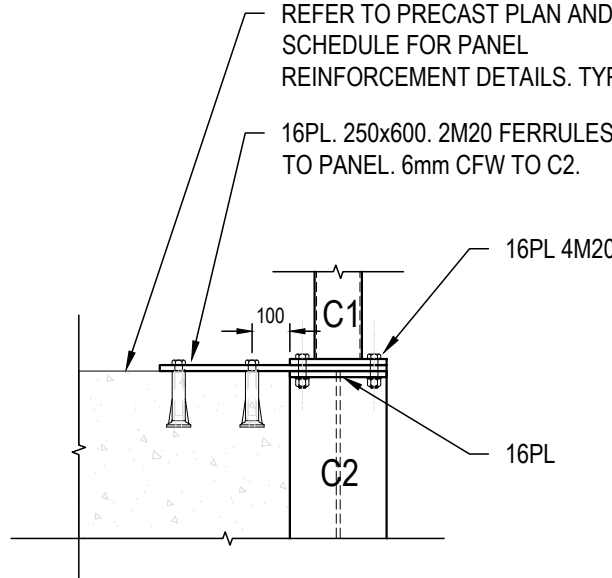


TYPICAL PF1/ EXPOSED PANEL END DETAIL
SCALE: N.T.S



DETAIL
SCALE: 1:20

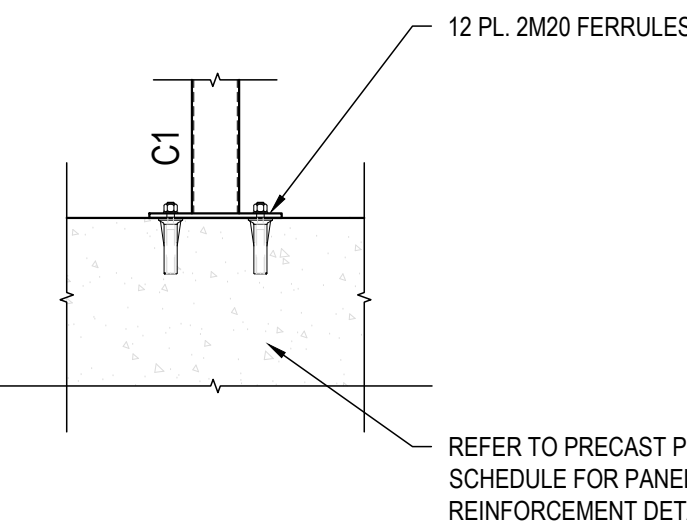
C1
S03



SECTION
SCALE: 1:20

C1a
-

TYPICAL COLUMN TO PANEL CONNECTION DETAIL
SCALE: N.T.S



P2	03/10/25	PRELIMINARY ISSUE
P1	06/06/25	PRELIMINARY ISSUE
REV	DATE	REMARK

SAFETY IN DESIGN REPORT PER WHS REGULATIONS	
The following table shall be completed by the design team to confirm that the design has been verified.	
This report does not relieve contractors from their responsibilities under the Act to identify, report, mitigate and manage all aspects of risk and safety.	

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PROJECT
**ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER**

TITLE
**STRUCTURAL
CONCRETE DETAILS
SHEET 1**

Accepted R.CHILD (Discipline Head)	Date 03/10/2025
Accepted R.CHILD (Team Leader)	Date 03/10/2025
Approved C.MALES (Principal)	Date 03/10/2025

SCALES @ A1	DESIGNED BY	DRAWN BY
AS INDICATED	R.BRUNNING	C.ZEMANEK
	PLOT DATE	03/10/2025

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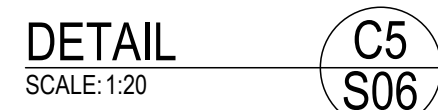
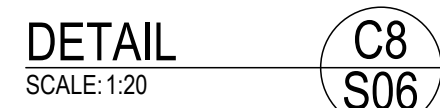
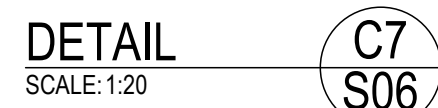
PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

PROJECT NO. **240559CS**

DWG NO.	REVISION
S07	P1

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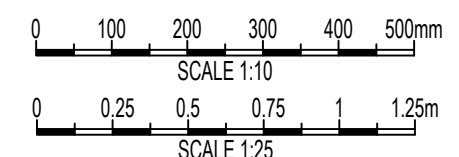
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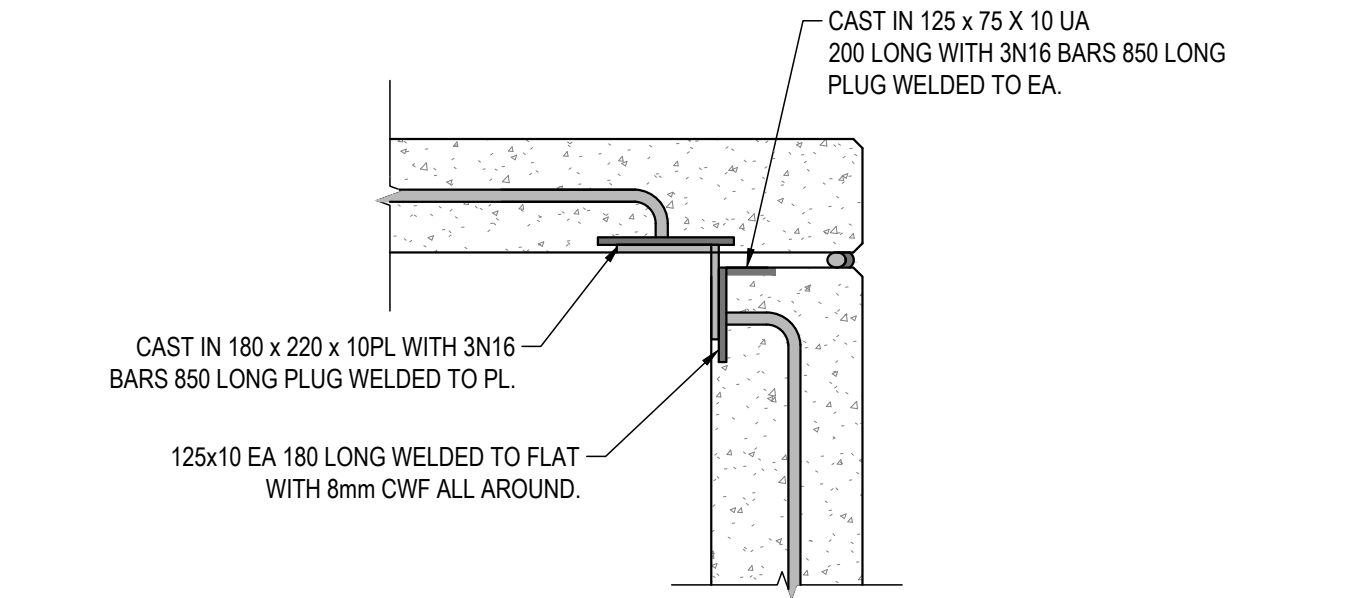
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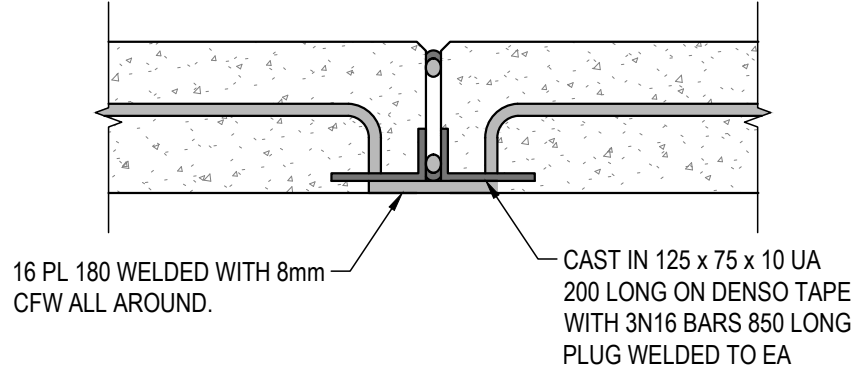


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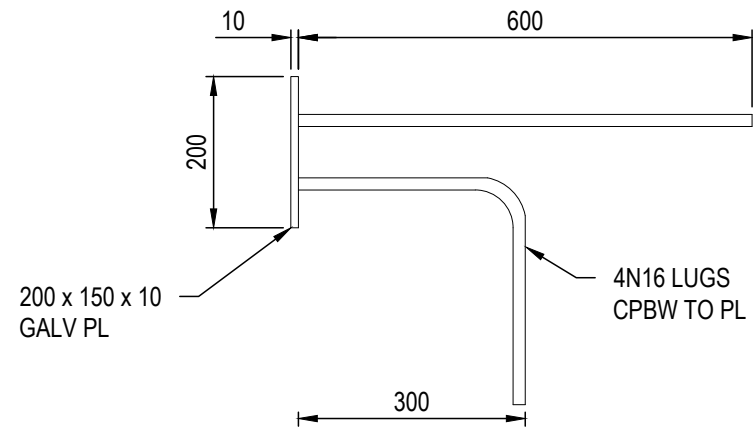
TYPICAL PANEL TO PANEL CONNECTION DETAIL 1

SCALE: 1:10



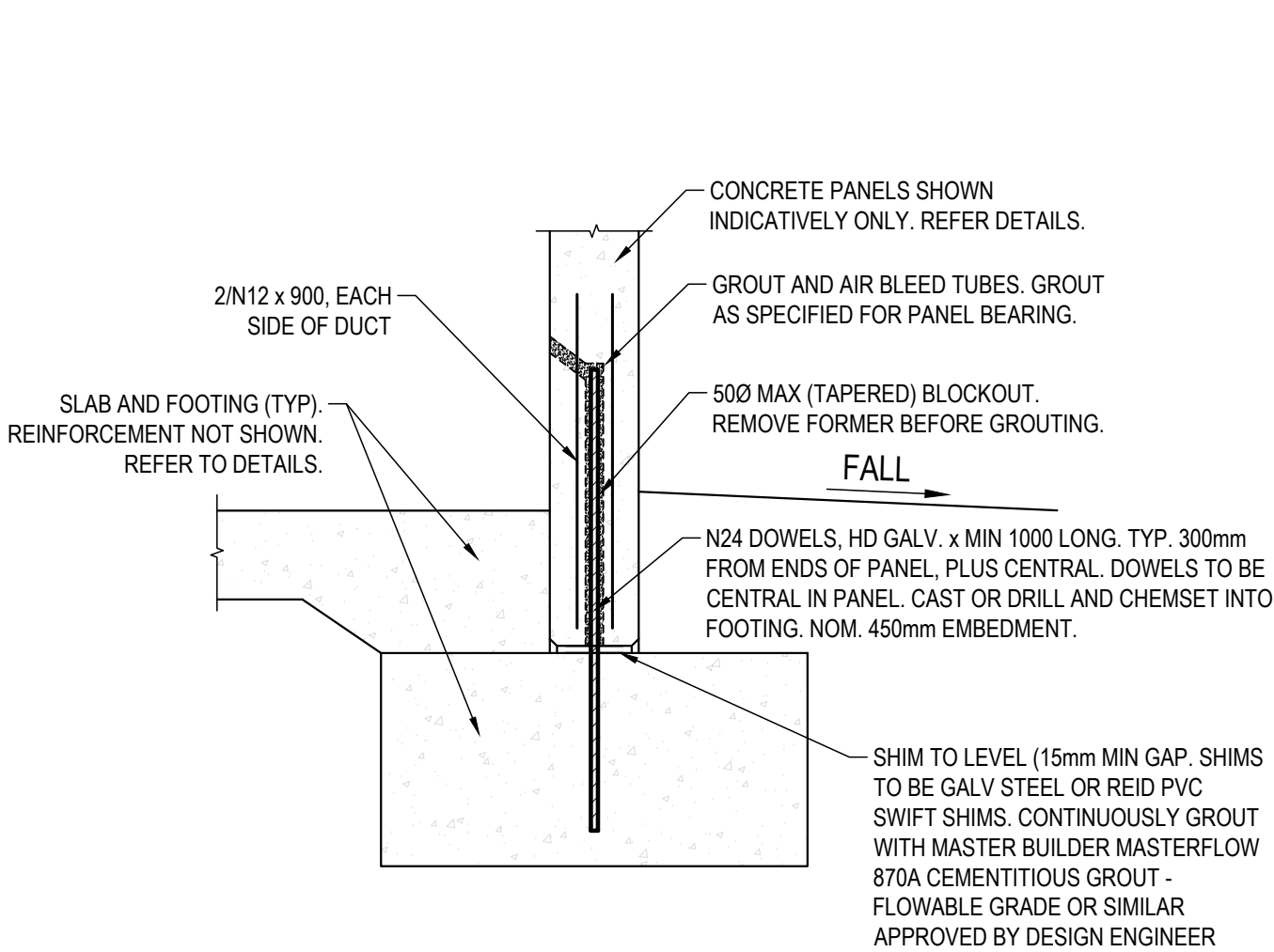
TYPICAL PANEL TO PANEL CONNECTION DETAIL 2

SCALE: 1:10



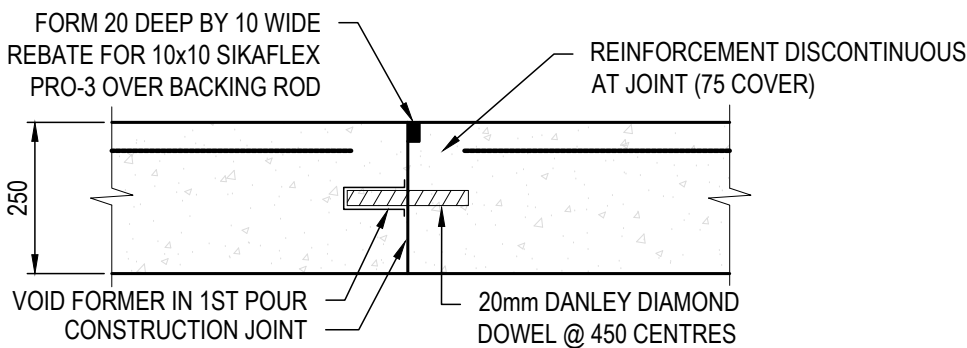
TYPICAL PRECAST CAST IN PLATE FOR SHS COLUMN

SCALE: 1:10



TYPICAL DOWEL DETAIL

SCALE: N.T.S



CONSTRUCTION JOINT DETAIL

SCALE: N.T.S

P2	03.10.25	PRELIMINARY ISSUE
P1	06.06.25	PRELIMINARY ISSUE
REV	DATE	REMARK

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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER

TITLE
STRUCTURAL
CONCRETE DETAILS
SHEET 3

Accepted	R.CHILD	Date	03/10/2025
(Discipline Head)			
Accepted	R.CHILD	Date	03/10/2025
(Team Leader)			
Approved	C.MALES	Date	03/10/2025
(Principal)			

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	PLOT DATE	03/10/2025

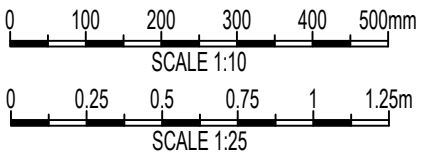
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PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

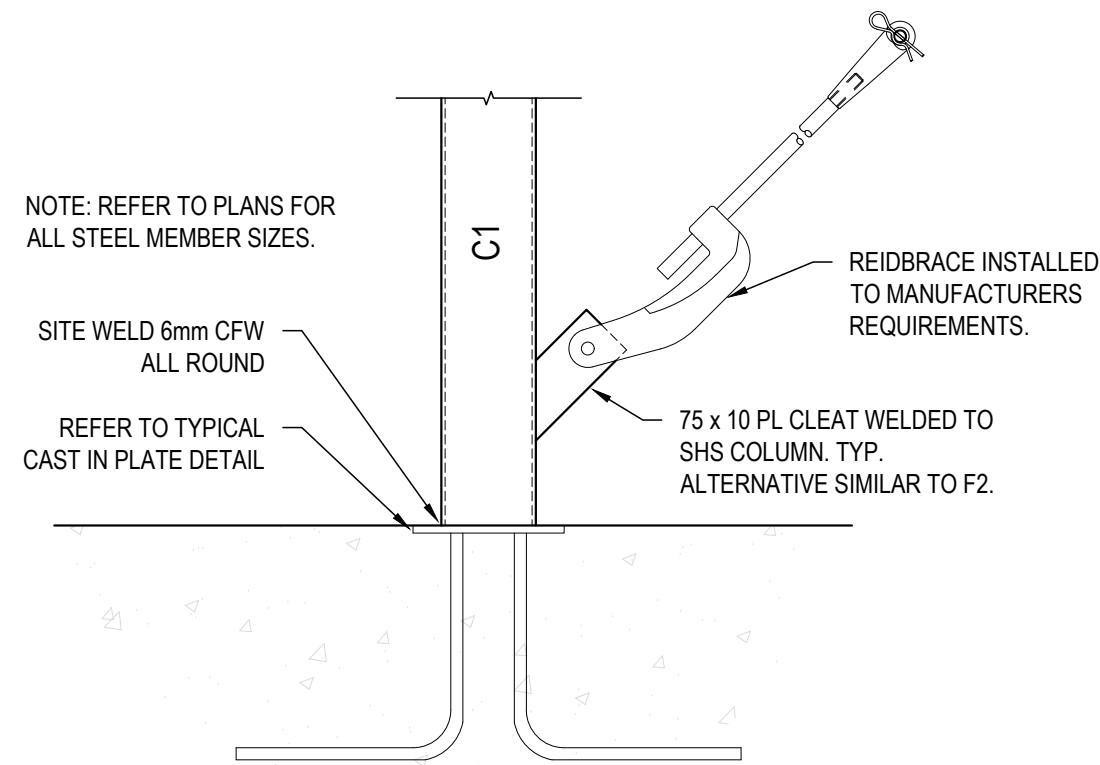
PROJECT NO. 240559CS

DWG NO.	REVISION
S09	P1

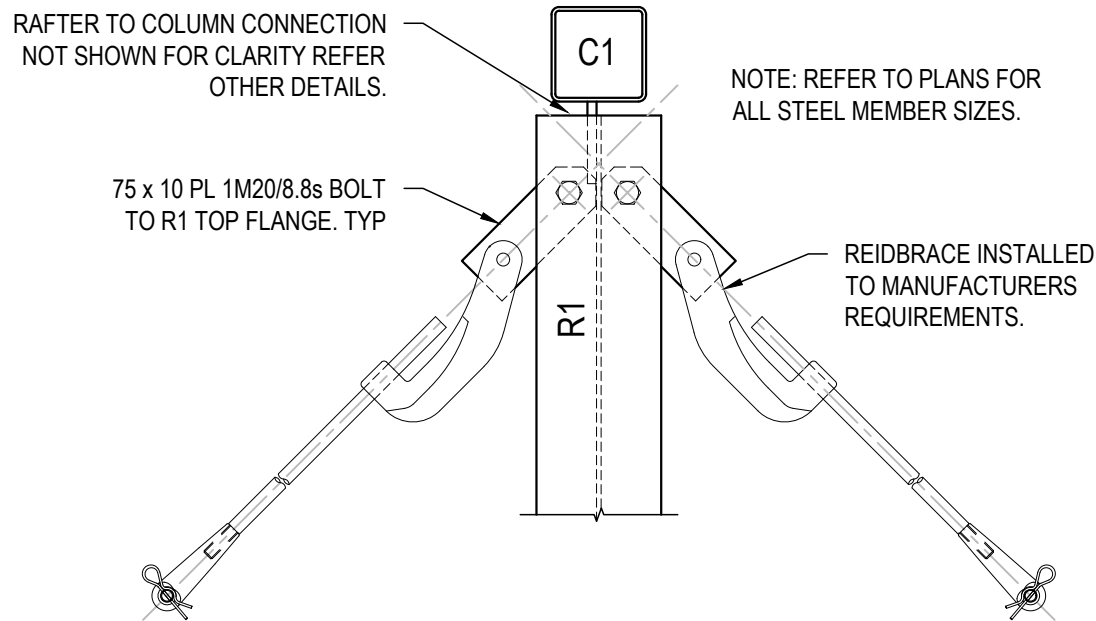
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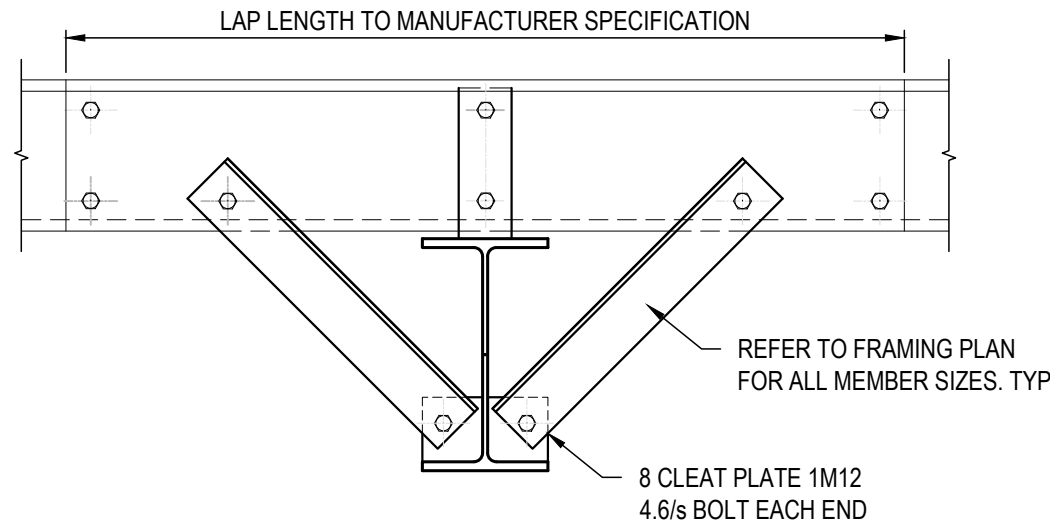
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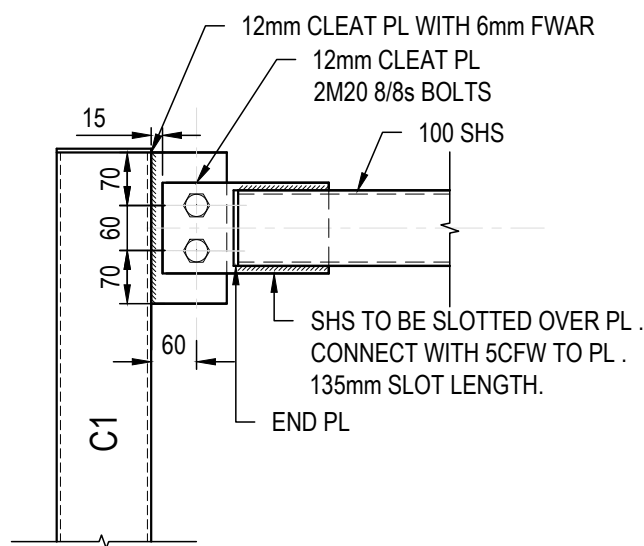
TYPICAL REID BRACE TO COLUMN DETAIL
SCALE: 1:10



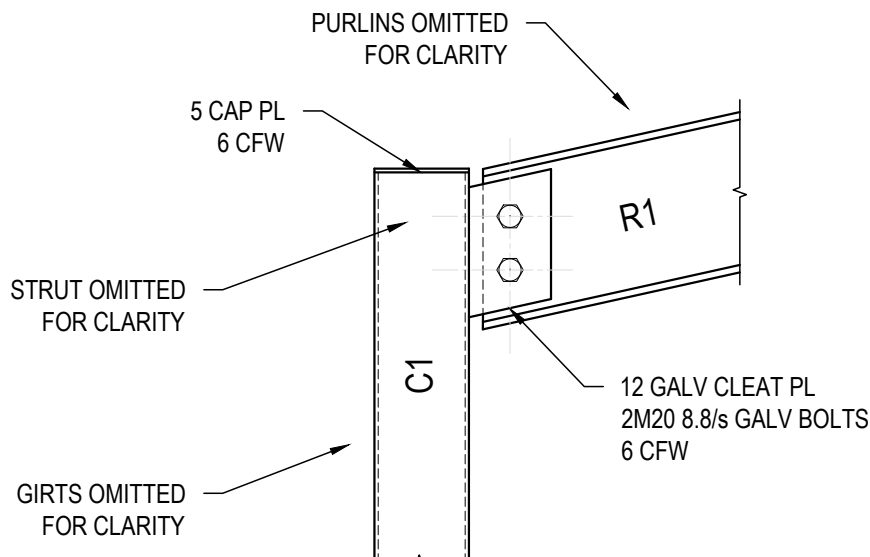
TYPICAL REIDBRACE TO RAFTER DETAIL
SCALE: 1:10



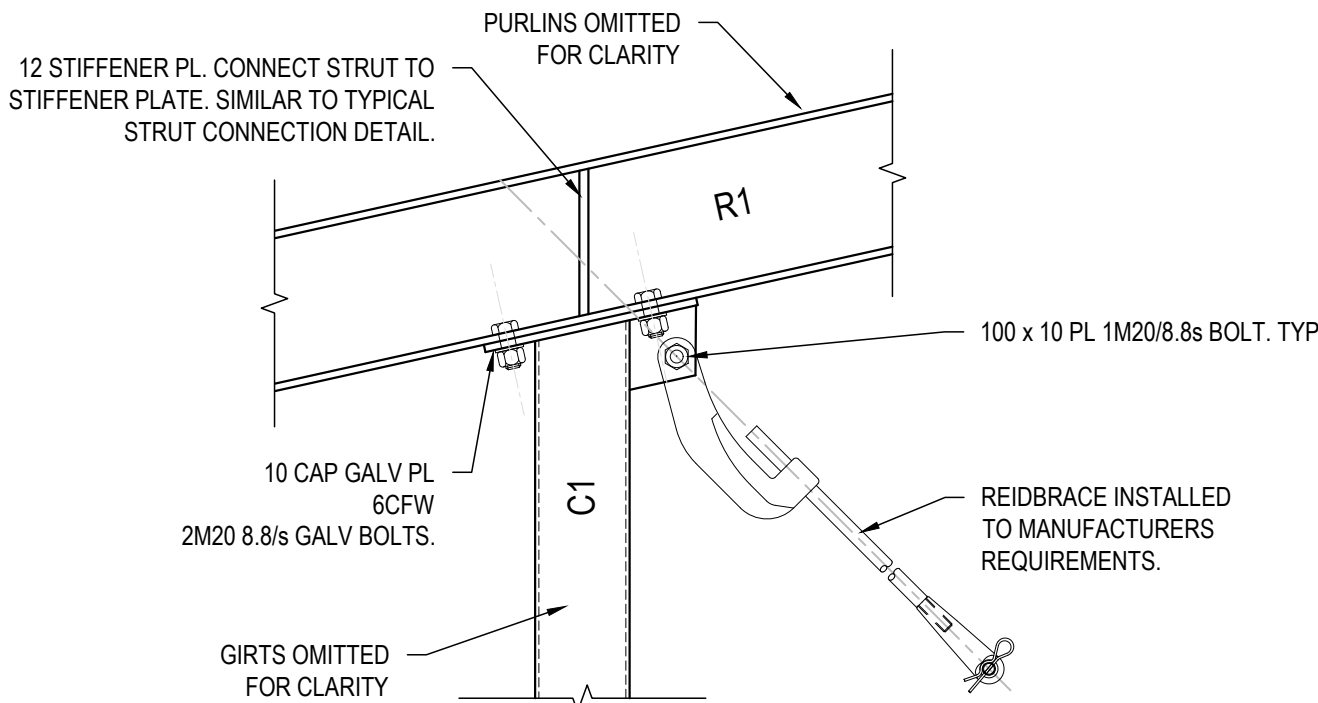
TYPICAL FLY BRACING DETAIL
SCALE: 1:10



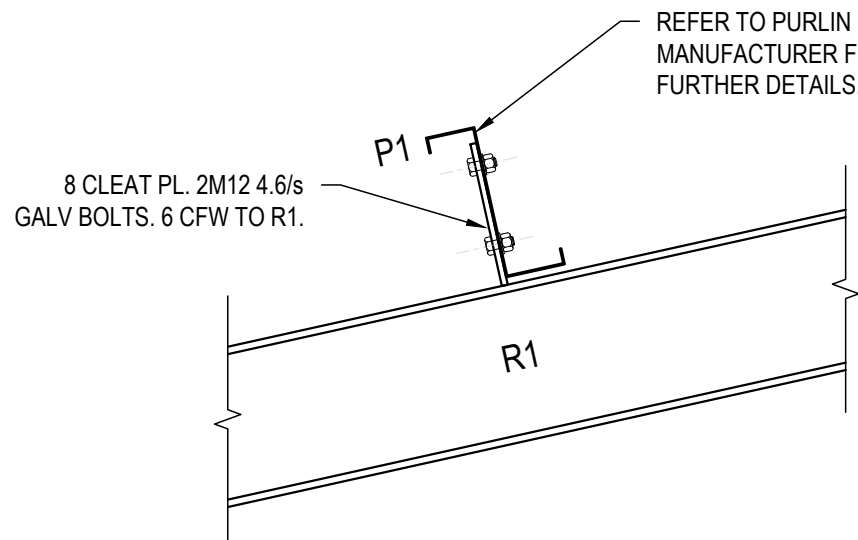
TYPICAL 100 SHS STRUT CONNECTION DETAIL
SCALE: 1:10



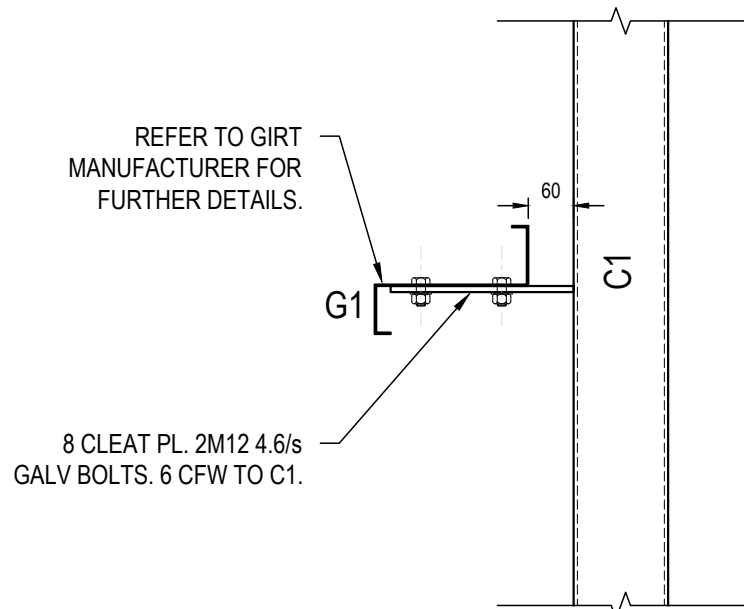
DETAIL F1 S05
SCALE: 1:10



DETAIL F2 S05
SCALE: 1:10



TYPICAL PURLIN TO RAFTER DETAIL
SCALE: 1:10



TYPICAL GIRT TO COLUMN DETAIL
SCALE: 1:10

FRAMING MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
B1	250 PFC	
B2	65 x 6 EA	
R1	200 UB 22	
S1	100 x 5 SHS	
BR1	16 Ø REIDBRACE	
BR2	75 x 5 EA	
P1	Z 200/19 LAPPED	2 ROWS BRIDGING. 1200 CRS MAX. LAPPED AS SHOWN ON PLAN
G1	Z 200/19 LAPPED	2 ROWS BRIDGING. LAPPED AS SHOWN ON ELEVATIONS.
FB1	50 x 5 EA	

COLUMN MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
C1	125 x 5 SHS	CAST INTO PANEL
C2	250UC89	C1 COLUMN OVER
C3	250 PFC	CAST INTO PANEL
C4	300 PFC	COLUMN ON TOP OF PANEL OR C2

P2	03.10.25	PRELIMINARY ISSUE
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PROJECT:
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1 CROOKED BILLET DRIVE
BRIDGEWATER

TITLE:
STRUCTURAL
FRAMING DETAILS

Accepted R.CHILD (Discipline Head)	Date 03/10/2025
Accepted R.CHILD (Team Leader)	Date 03/10/2025
Approved C.MALES (Principal)	Date 03/10/2025

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1:100	R.BRUNNING	C.ZEMANEK
	PLOT DATE	03/10/2025

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PLOT DETAILS 240559CS-S-STORE BUNKERS.DWG

PROJECT NO. 240559CS

DWG NO.	REVISION
S10	P1

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0 100 200 300 400 500mm
SCALE 1:10

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GENERAL

G1 IN THESE NOTES, APPROVED, DIRECTED, REQUIRED, REJECTED & SIMILAR EXPRESSIONS, SHALL MEAN APPROVED, DIRECTED, REQUIRED, REJECTED AND THE LIKE BY THE SUPERINTENDENT THROUGH THE CONTRACTOR.

G2 READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTS AND OTHER DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED.

G3 BUILDING SET-OUT AND DIMENSIONS ARE DETERMINED BY THE ARCHITECT. DIMENSIONS EXPRESSED IN MILLIMETERS, UNO. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THESE DRAWINGS. SETTING OUT DIMENSIONS SHALL BE VERIFIED BEFORE COMMENCING WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND THE ARCHITECT'S OR OTHER DRAWINGS IS TO BE ADVISED BEFORE PROCEEDING WITH THE WORK.

G4 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED.

G5 24 HOURS NOTICE REQUIRED FOR WORK REQUIRING INSPECTION.

G6 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC & TO THE FOLLOWING CRITERIA:

IMPORTANCE LEVEL : 2
DESIGN LIFE: 50 YEARS

G7 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED ACCORDING TO AS 1170.2 FOR A REGIONAL WIND SPEED OF 48m/s IN TERRAIN CATEGORY 2.0 SHELTERED & FOR THE FOLLOWING LIVE LOADS:

AREA LIVE LOAD

AXLE LOAD 42 TONNE

G8 WORK HEALTH & SAFETY NOTICE:
JMG HAVE CONSIDERED THE HAZARDS AND RISKS ASSOCIATED WITH THE CONSTRUCTION, OPERATION, MAINTENANCE AND EVENTUAL DEMOLITION OF THIS PROJECT. THERE ARE A NUMBER OF HAZARDS AND HENCE RISKS WHICH ARE NOT UNIQUE TO THIS PROJECT WHICH NEED TO BE MANAGED DURING THESE PHASES. JMG REMIND CONSTRUCTORS, OPERATORS, MAINTAINERS AND DEMOLISHERS OF THEIR RESPONSIBILITIES UNDER WORK HEALTH & SAFETY ACTS AND REGULATIONS. THE FOLLOWING RISKS HAVE BEEN IDENTIFIED WHICH ARE UNIQUE TO THIS PROJECT:

- NIL

FOUNDATION:

F1 FOUNDING DEPTHS ARE REDUCED LEVELS TO UNDERSIDE OF FOOTINGS SHOWN ON DRAWINGS ARE FOR TENDERING PURPOSES. EXCAVATE THROUGH FILL AS REQUIRED TO PLACE FOOTINGS ACCORDINGLY. ALL EXCAVATIONS SHALL BE APPROVED BEFORE PLACEMENT OF STRUCTURAL FILL, HARDCORE, BLINDING AND/OR REINFORCEMENT.

F2 FOUNDATION MATERIAL SHALL HAVE AN ALLOWABLE BEARING CAPACITY OF 500 kPa MINIMUM, IN ACCORDANCE WITH GEOTECHNICAL REPORT J10720.

F3 BASES OF FOOTINGS SHALL BE HORIZONTAL, UNO.

F4 EXCESS DEPTHS AND WIDTHS IN FOUNDATIONS TO THOSE SPECIFIED SHALL BE FILLED WITH MINIMUM A.S. GRADE 15 CONCRETE. THE CONCRETE FILL SHALL NOT BE BONDED TO THE CONCRETE UNLESS APPROVED. THE COST OF FILLING SHALL BE BORNE BY THE CONTRACTOR.

F5 WHERE DETAILED ON THESE DRAWINGS & WHEREVER GROUND WATER IS ENCOUNTERED PROVIDE 50 CONCRETE BLINDING IMMEDIATELY AFTER APPROVAL OF FOUNDATION.

SLABS ON GRADE:

SG1 SUB-BASE PREPARATION
THE SUB-BASE FOR SLABS ON GRADE SHALL BE PREPARED AS FOLLOWS:

- STRIP OFF ALL VEGETATED TOPSOIL AND CUT TO REQUIRED LEVEL. 300 MIN. BELOW ESL (SUBJECT TO FINAL SITE CHECK)
- PROOF ROLL SUB-BASE TO STANDARD SPECIFIED.
- WHERE SUB-BASE DISTURBED FOR EXCAVATIONS, FILL WITH STRUCTURAL FILL TYPE A OR B THOROUGHLY COMPACTED IN 150 MAXIMUM LAYERS.

SG2 BASE PREPARATION
THE BASE FOR SLABS ON GRADE SHALL BE PREPARED AS DETAILED AND AS FOLLOWS:

- FILL WITH STRUCTURAL FILL TYPE A COMPACTED AND WATERED TO 150 MIN. FINISHED THICKNESS. ADDITIONAL FILL REQUIRED BELOW THIS LAYER SHALL BE TYPE A OR B STRUCTURAL FILL COMPACTED AND WATERED, PLACED IN LAYERS NOT EXCEEDING 200 FINISHED THICKNESS. ROLL INTO SUBGRADE WITH 10t STATIC DRUM.
- COMPACTION TO MINIMUM 95% 'STANDARD COMPACTION' TO AS 1289 U.N.O.
- PLACE 25 MAX. SAND BLINDING WATERED & COMPACTED, UNDER ENTIRE SLAB AND SLAB THICKENINGS.
- LAY 0.2mm 'FORTECON' MEMBRANE. TAPE ALL JOINTS AND SEAL ALL PENETRATIONS. PLACE UNDER ENTIRE SLAB INCLUDING SLAB THICKENINGS & INTEGRAL FOOTINGS. TURN UP AT OUTSIDE EDGES.

SG3 STRUCTURAL FILL
STRUCTURAL FILL SHALL BE AS FOLLOWS:
TYPE A - 20 FINE CRUSHED ROCK
TYPE B - 40+ FINE CRUSHED ROCK
TYPE C - 150/200 NOMINAL SIZE DOLERITE SPALLS IN 2 LAYERS.
EXCAVATED MATERIAL NOT TO BE USED WITHOUT APPROVAL.

CONCRETE:

C1 WORKMANSHIP, MATERIALS & DESIGN SHALL BE IN ACCORDANCE WITH AS 3600 & ASSOCIATED CODES LISTED THEREIN AND THE SPECIFICATION.

C2 CONCRETE PROPERTIES SHALL BE AS FOLLOWS. REFERENCE TO BE MADE TO THE SPECIFICATION FOR OTHER REQUIREMENTS. SUPPLIER TO DESIGN MIX TO ACHIEVE THESE REQUIRED PROPERTIES. MOIST CURE FOR 3 DAYS MIN. AFTER POUR.

CONCRETE MIX DETAILS	
ELEMENT & LOCATION	A.S. GRADE MPa
FOOTING GROUND SLABS	S25
PRECAST PANELS	N40

C3 BEAM DEPTHS ARE WRITTEN FIRST UNO AND INCLUDE SLAB THICKNESS IF ANY.

C4 NO HOLES OR CHASES OTHER THAN THOSE SHOWN SHALL BE MADE WITHOUT APPROVAL.

C5 DO NOT PLACE CONDUITS, PIPES AND THE LIKE WITHIN CONCRETE COVER.

C6 SLABS AND BEAMS ARE TO BE POURED TOGETHER UNLESS NOTED OTHERWISE.

C7 WHERE REINFORCEMENT IS CONTINUOUS THROUGH A POUR BREAK, SCABBLE, REMOVE ALL LOOSE MATERIAL AND DAMPEN THE OLD FACE BEFORE POURING AGAINST IT.

C8 THE USE OF BLENDED CEMENTS, FLY ASH AND OR CHEMICAL AD-MIXTURES SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL.

C9 UNFORMED EXPOSED CONCRETE SURFACES SHALL HAVE AN APPROVED STEEL TROWELLED FINISH UNLESS SHOWN OTHERWISE.

C10 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

C11 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY AT LOCATIONS AND TO DETAILS SHOWN ON STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE.

C12 CONCRETE COVER TO REINFORCEMENT (INCLUDING LIGS) SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN. 60 MIN. FIRE RESISTANCE PERIOD ASSUMED.

EXPOSURE ENVIRONMENT	A.S. 3600 CAT.	ELEMENT	#	CONCRETE AS GRADE	COVER B/T
BELOW GROUND	A2	FOOTINGS	1	25	50
		FOOTINGS	2	25	50
	A1	SLAB BOT.	3	32	30
BUILDING EXTERNAL	B1	SLAB	2	32	40
		PANELS	2	40	30

#1 = CAST AGAINST GROUND
#2 = CAST AGAINST FORMWORK
#3 = CAST AGAINST FORTECON MEMBRANE

C13 REINFORCEMENT SHALL NOT BE CUT, WELDED, BENT OR HEATED ON SITE, NOR FITMENT OR SLAB STEEL BE DISPLACED MORE THAN 0.25 TIMES THE NOMINAL SPACING WITHOUT PRIOR APPROVAL.

C14 PLACE INDIVIDUAL BAR CHAIRS AT THE RATE OF 25 PER 10m2 OF BOTTOM & TOP SLAB REINFORCEMENT AREA (750 CRS. APPROX) AND AS REQUIRED FOR ADEQUATE SUPPORT IN OTHER MEMBERS. ALL CHAIRS SUPPORTED ON APPROVED TYPE PLATES.

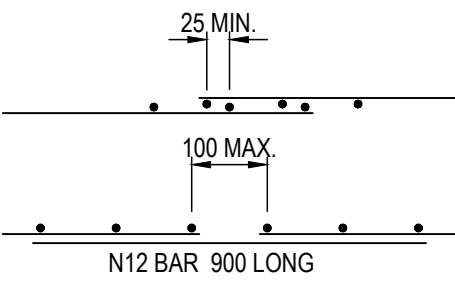
C15 REINFORCEMENT SHALL BE SECURELY WIRED IN PLACE WITHOUT WELDING, UNLESS APPROVED OTHERWISE.

C16 FABRIC SHALL BE RANDOM LAPPED WITH NO MORE THAN TWO SHEETS NESTED TOGETHER. USE ALTERNATIVE DETAIL AS REQUIRED. WHERE FABRIC ORIENTATION IS SHOWN, THIS BAR IS TO BE PLACED WITH MINIMUM COVER TO CONCRETE FACE. (ALTERNATIVE SHEETS WHERE FABRIC NESTED)

END LAP

TYPICAL DETAIL

ALTERNATIVE DETAIL



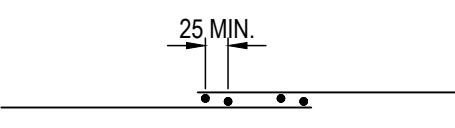
END LAPS NOT PERMITTED WITH ONE WAY FABRICS ABOVE RL818. END LAP WITH SPLICE BAR AT FOLLOWING CENTRES:

UP TO SL82 N12 @ 400 CRS.
SL92 N12 @ 300 CRS.
SL81 N12 @ 200 CRS.

SIDE LAP

TYPICAL DETAIL

ALTERNATIVE DETAIL AS ABOVE



C17 MESH ORIENTATION FOR WALLS - HORIZONTAL BAR TO BE PLACED TO THE OUTER FACE UNLESS OTHERWISE NOTED. WHERE FABRIC PLACEMENT IS NOT PRACTICAL REPLACE WITH N12@200 EW.

C18 REINFORCEMENT SYMBOLS AND GRADES:

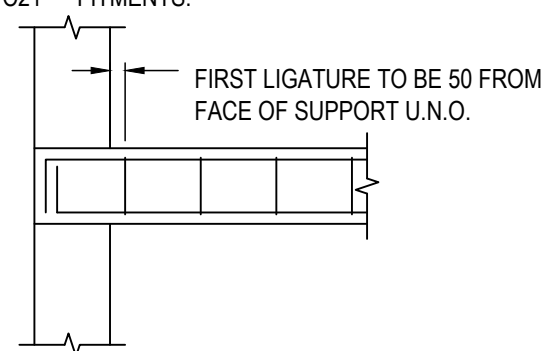
R - DENOTES STRUCTURAL GRADE PLAIN ROUND (GRADE 250R)
N - DENOTES HOT ROLLED DEFORMED BAR (GRADE D500N) TO A.S. 4671
SL - DENOTES RIBBED REINFORCING FABRIC (GRADE D500L) TO A.S. 4671
W - DENOTES HARD-DRAWN PLAIN WIRE (GRADE D500L) TO A.S. 1303.

C19 TRIMMING STEEL NOT DESIGNATED SHALL BE:

ELEMENT	LOCATION	TRIMMING REINFORCEMENT	EXTEND BEYOND CROSS OVER POINT
SLABS	-INTERNAL CORNERS -PENETRATIONS -SETDOWNS >25 DEEP	2/N16 EW TOP AT CORNERS	800

C20 MASONRY OR CONCRETE WALLS OR SIMILAR ELEMENTS MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK AND PROPS SUPPORTING THE SAME HAVE BEEN REMOVED.

C21 FITMENTS:



PRECAST PANELS:

P1 CONCRETE SPECIFICATION TO AS 3600 N40 (28 DAYS MIN.) (REFER NOTE C2 ALSO). N40 E7 (FOR PANEL LIFT AT 7 DAYS)

P2 PANELS TO BE LIFTED USING REID SWIFTLIFT SYSTEM OR RAMSET SYSTEM.

P3 APPLY APPROVED FROM RELEASE AGENT BETWEEN STACK CAST PANELS AND TO CASTING BED.

P4 ALL PANELS TO BE BRACED IN ACCORDANCE WITH A.S.3850

P5 FOR PANEL JOINT DETAILS REFER ARCHITECT'S OR OTHER DRAWINGS.

P6 THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL REINFORCEMENT REQUIRED FOR LIFTING. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL PROPPING AND HANDLING. THE CONTRACTOR SHALL SUBMIT FULL SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCEMENT OF MANUFACTURING.

P4 30/09/2025 PRELIMINARY ISSUE
P3 30/05/2025 PRELIMINARY ISSUE
P2 15/05/2025 PRELIMINARY ISSUE
P1 21/03/2025 PRELIMINARY ISSUE
REV DATE REMARK

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PROJECT

1 CROOKED BILLET DRIVE
HAZELL BROS.
BRIDGEWATER ASPHALT PLANT

TITLE
STRUCTURAL
NOTES SHEET 1

Accepted RAJC (Discipline Head)	Date
Accepted GLA (Team Leader)	Date
Approved CJM (Principal)	Date

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	AMH	CRZ
	PLOT DATE	03/10/2025

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PLOT DETAILS 240559CS-S-MAIN PLANT.DWG

PROJECT NO. 240559CS

DWG NO. S01 REVISION P4

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WORK IN PROGRESS
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REINFORCED MASONRY:

R1 WORKMANSHIP, MATERIALS & DESIGN SHALL BE IN ACCORDANCE WITH AS 3700 & ASSOCIATED CODES LISTED THEREIN AND THE SPECIFICATION.

R2 GROUT FOR FILLING CORES IN REINFORCED BLOCKWORK SHALL HAVE THE FOLLOWING PROPERTIES:

- MAXIMUM AGGREGATE SIZE =10
- SLUMP =230
- MINIMUM CEMENT CONTENT =300 kg/m³
- CHARACTERISTIC STRENGTH F_c =15-20 MPa
- BLENDED CEMENT, FLYASH AND CHEMICAL ADMIXTURES NOT PERMITTED WITHOUT APPROVAL.

R3 CLEAN OUT HOLES SHALL BE PROVIDED AT THE BASE OF ALL CORES TO BE GROUTED. BEFORE THE CORES ARE FILLED, ANY MORTAR DROPPINGS SHALL BE CLEANED OUT, THE REINFORCEMENT TIED AND THE HOLES BLOCKED OFF.

R4 MINIMUM COVER BETWEEN REINFORCEMENT AND INSIDE OF BLOCK SHALL BE 15.

R5 PROVIDE CONTROL JOINTS AT 14.0m CRS. MAX. JOINTS TO BE PROVIDED AT STEP DOWNS OR NEAREST ABUTMENT.

STEELWORK:

S1 WORKMANSHIP, MATERIALS AND DESIGN SHALL BE IN ACCORDANCE WITH A.S. 4100, ASSOCIATED CODES LISTED THEREIN AND THE SPECIFICATION.

S2 UNLESS NOTED OTHERWISE STEEL ELEMENTS SHALL BE OF THE FOLLOWING GRADES:

GENERAL SECTIONS - BHP 300+ (UB/UC/PFC/LARGE ANGLES)

- GRADE 250 TO AS 3678/3679

(OTHER SECTIONS)

RHS & SHS - GRADE 350 TO AS 1163

CHS <= 89Ø - GRADE 250 TO AS 1163

CHS => 89Ø - GRADE 350 TO AS 1163

PURLINS & GIRTS - GRADE G450-Z200 TO AS 1397

DURAGAL - GRADE C450LO TO AS 1163

S3 REFER TO ARCHITECT'S OR OTHER DRAWINGS FOR LINTELS, CLEATS AND MEMBERS NOT SPECIFICALLY SHOWN ON THESE DRAWINGS.

S4 BOLTING PROCEDURES ARE IDENTIFIED AS FOLLOWS:

BOLTING PROCEDURE	GRADE MPa	BOLT TO A.S.	METHOD OF INSTALLATION	NOTES
4.6/s	4.6	AS 1111	SNUG TIGHTENED	
8.8/s	8.8	AS 1252	SNUG TIGHTENED	
8.8/TF	8.8	AS 1252	FULLY TENSIONED LOAD INDICATOR WASHERS.	FRICTION TYPE JOINT
8.8/TB	8.8	AS 1252	FULLY TENSIONED LOAD INDICATOR WASHERS.	BEARING TYPE JOINT

ALL BOLTS TO BE OF SUCH LENGTH THAT AT LEAST ONE FULL THREAD IS EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED.

S5 UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE AS FOLLOWS:

CONNECTION LOCATION	BOLT NO. &/OR SIZE	PROCEDURE	CLEAT THICKNESS	NOTES
GENERAL MEMBERS	<200 MAX DIM 2/M16	4.6/s	8	WASHER UNDER ROTATING PART
	>200 2/M20	8.8/s	10	
PURLINS & GIRTS	2/M12	4.6/s	8	GALVANISED BOLTS
ROD BRACING	2 NUTS AS SPECIFIED AS LOCK NUTS EACH END	4.6/s	AS DETAILED	HALF MOON WASHER EACH END
HD BOLTS	AS DETAILED	4.6/s	AS DETAILED	50x50x6 WASHER UNDER NUT

NOTE: ALL BOLTS TO BE HOT DIP GALV. U.N.O.

S6 PURLINS SHALL BE SUPPLIED AS SPECIFIED WITH BRIDGING AND TIES TO MANUFACTURER'S SPECIFICATION OR 3000 MAXIMUM UNSUPPORTED LENGTH U.N.O. SUBSTITUTION SHALL NOT BE MADE UNLESS APPROVED.

S7 WELDING CATEGORIES SHALL BE AS FOLLOWS:

UNLESS NOTED OTHERWISE SP

TO A.S. 1554

PURLIN AND GIRT CLEATS SP

TO A.S. 1554

S8 UNLESS NOTED OTHERWISE ALL FILLET WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS, SP CATEGORY.

S9 ALL BUTT WELDS SHALL BE PRE-QUALIFIED COMPLETE PENETRATION SP CATEGORY AND SHALL UTILISE "RUN-ON RUN-OFF" PLATES.

S10 ELECTRODES SHALL BE:

E41xx OR E48xx

TO A.S. 1553 FOR MMAW

W500

TO A.S. 2717 FOR GMAW

W500

TO A.S. 2203 FOR FCAW

W500

TO A.S. 1858 FOR SAW

S11 GROUT UNDER BASE PLATES SHALL BE 2:1 SAND/CEMENT MORTAR MIXED NEARLY DRY AND RAMMED HARD MINIMUM 20 THICK. ALTERNATIVELY USE MASTER BUILDER'S MASTERFLOW TYPE 870A CEMENT GROUT (FLOWABLE GRADE) 20 THICK.

S12 SUSPENDED CEILINGS, AIR CONDITIONING UNITS, DUCTWORK AND SUSPENDED PIPEWORK MUST BE SUITABLY SUPPORTED FROM THE WEB OF PURLINS. SUPPORT FROM THE FLANGE OF PURLINS SHALL NOT BE PERMITTED. LOADS FROM HEAVIER UNITS OR PLANT MUST BE SUITABLY DISTRIBUTED BETWEEN THREE (3) PURLINS.

S13 PREPARE AND PRIME PAINT STEEL AS FOLLOWS:

- INTERNAL STEELWORK
 - PREPARATION - AS 1627.4 CLASS 1
 - PRIME COAT - 50 MICRONS OF ZINC PHOSPHATE
- EXTERNAL STEELWORK
 - PREPARATION - AS 1627.4 CLASS 2.5
 - PRIME COAT - 75 MICRONS OF INORGANIC ZINC
 - ALL COATING TO BE FROM THE SAME MANUFACTURER AND SUBJECT TO ARCHITECT/ENGINEER APPROVAL

S14 STEELWORK TO BE HOT DIP GALVANISED IS AS DESCRIBED OR NOTED AS (GALV) ON THE PROJECT DRAWINGS. PREPARE TO CLASS 2 / AS 1627.4. MAKE GOOD DAMAGE TO GALVANISING WITH "DIMET GALVANITE" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION FOR BARRIER AND/OR FINISH COATS.

BONDEK - STRUCTURAL DECKING:

B1 STRUCTURAL FORMWORK LBI BONDEK II 0.75 OR CONDEK HP 0.79mm.

B2 RIBS LAID IN DIRECTION SHOWN THUS: 

B3 STRUCTURAL FORMWORK TO BE SUPPORTED ON BAND/EDGE BEAMS AND TEMPORARILY ON PROPS/TIMBER BEARERS.

B4 STRUCTURAL FORMWORK TO BE SUPPORTED FULL WIDTH OF ALL WALLS AND TEMPORARILY ON PROPS OR TIMBER BEARERS.

B5 INSTALL 2 ROWS OF PROPS AT THIRD POINTS EACH SPAN EXCEEDING 3200mm OTHERWISE 1 ROW OF PROPS AT MIDSPAN. MAXIMUM UNSUPPORTED TRAY LENGTH - 2000mm. LEAVE PROPS IN PLACE 14 DAYS AFTER SET.

B6 NO MASONRY STACKS WITHIN SLAB SPANS. PROVIDE ALCOR FLASHING AS SLIP LAYER OVER MASONRY WALLS (UNDER BONDEK).

B7 MINIMUM BEARING LENGTH TO BE 50mm. PRIOR TO CONCRETING ALL EXTRANEOUS GREASE, OIL, DIRT AND DELETERIOUS MATTER SHALL BE REMOVED FROM THE UPPER SURFACE OF THE STRUCTURAL FORMWORK. ALSO, ANY PONDING RAINWATER LYING ON THE SHEETING SHALL BE SWEEP OR BLOWN AWAY.

B8 MINIMUM VENTILATED AIR GAP UNDER - 300mm.

B9 WELD BONDEK TO STEEL BEAMS WITH 12Ø PUDDLE WELDS ADJACENT TO EVERY SECOND RIB OR 400 CRS. MAX.

RETAINING WALL NOTES - REINFORCED MASONRY OR CONCRETE:

RW1 ALL WORK TO BE IN ACCORDANCE WITH THE RELEVANT SAA CODE.

RW2 CONCRETE STRENGTH FOR FOOTINGS 25MPa.

RW3 COVER TO REINFORCEMENT

- 50mm FOOTINGS BOTTOM
- 30mm FOOTINGS TOP
- 55mm WALLS FROM BACKFILL FACE

RW4 CLAY MATERIAL SHALL NOT BE USED AS BACKFILL BEHIND WALLS.

RW5 THE REAR OF THE WALL SHALL BE DRAINED WITH A.G. DRAINS. PROVIDE 300mm MIN. WIDTH LAYER OF 25mm CRUSHED ROCK BEHIND WALL.

RW6 DO NOT BACKFILL BEHIND WALL UNTIL GROUT OR CONCRETE HAS CURED FOR AT LEAST 14 DAYS.

RW7 PROVIDE BLOCK BREAKS IN BOTTOM COURSE OF MASONRY WALL TO ALLOW CLEAN OUT OF MORTAR DROPPINGS AND TYING OF REINFORCEMENT. FORM UP TO GROUT.

ABBREVIATIONS: (REFER A.S. CZ1 PART 2)

BOTTOM	BOT
BRICK/BLOCK CONTROL JOINT	BCJ
CAST IN PLATE	CIP
CONSTRUCTION JOINT	CJ
CONTINUOUS FILLET WELD	CFW
CONTROL JOINT	CONT J
DIAMETER	DIA (OR Ø)
EACH FACE	EF
EACH WAY	EW
EXISTING SURFACE LEVEL	ESL
EXPANSION JOINT	EJ
FAR FACE	FF
FINISHED FLOOR LEVEL	FFL
FULL STRENGTH BUTT WELD	FSBW
FINISHED SURFACE LEVEL	FSL
GALVANISED	GALV
GROUND SURFACE LEVEL AS CUT	GSL
KILOPASCAL	kPa
LIVE LOAD	LL
MEGAPASCAL	MPa
NEAR FACE	NF
REDUCED LEVEL	RL
TOP AND BOTTOM	T&B
UNLESS NOTED OTHERWISE	UNO

P4 30/09/2025 PRELIMINARY ISSUE
P3 30/05/2025 PRELIMINARY ISSUE
P2 15/05/2025 PRELIMINARY ISSUE
P1 21/03/2025 PRELIMINARY ISSUE

REV	DATE	REMARK
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PROJECT
1 CROOKED BILLET DRIVE
HAZELL BROS.
BRIDGEWATER ASPHALT PLANT

TITLE
STRUCTURAL
NOTES SHEET 2

Accepted RAJC (Discipline Head)	Date 03/10/2025
Accepted GLA (Team Leader)	Date 03/10/2025
Approved CJM (Principal)	Date 03/10/2025

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PLOT DETAILS 240559CS-S-MAIN PLANT.DWG

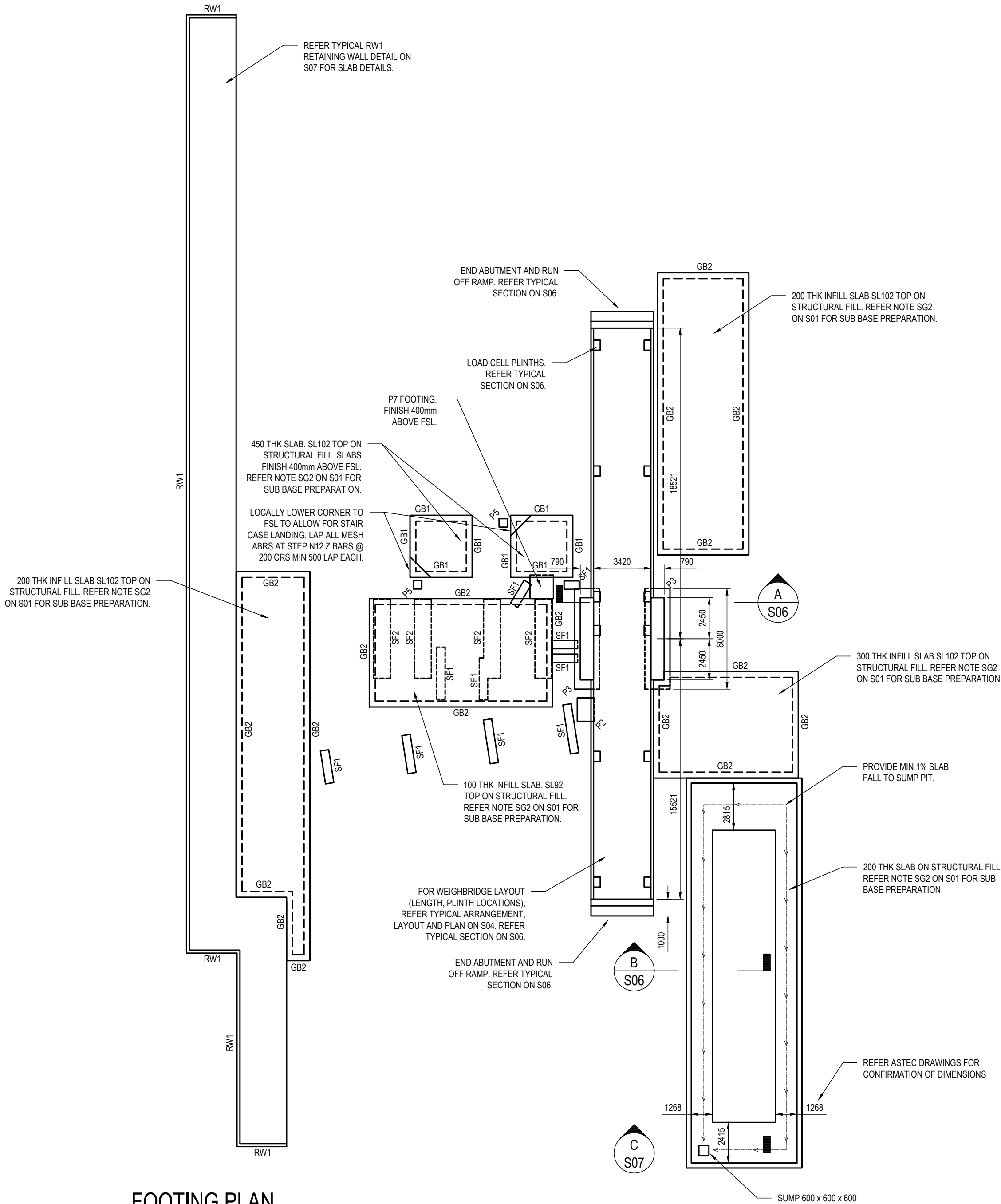
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FOOTING PLAN
SCALE: 1:200

FOOTING MARKING SCHEDULE		
MARK	DIMENSIONS	REINFORCEMENT/ COMMENTS
P1	900 x 900w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
P2	1400 x 1000w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
P3	REFER SECTION A ON S06 AND P3 FOOTING SECTION ON S05	REFER SECTION A ON S06 AND P3 FOOTING SECTION ON S05
P5	600 x 600w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
P6	1000 x 1000w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
P7	1400 x 1400w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
P8	2800 x 900w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
P9	2800 x 1400w x 500d	N12 U-BARS @ 200 E.W. TOP AND BOT
SF1	500w x 500d	4N12 TOP AND BOT N12 LIGS @ 300 CRS
SF2	1000w x 500d	8N12 TOP AND BOT N12 LIGS @ 300 CRS
GB1	350w x 600d	3L12TM BOT
GB2	350w x 300d	3L12TM BOT

BOLT CONNECTIONS

FOOTING BOLT SIZE IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. REFER TABLE BELOW FOR CORRESPONDING BOLT EMBEDMENT DEPTH, MINIMUM EDGE DISTANCE AND SPACING.

BOLT SIZE	EMBEDMENT	EDGE DISTANCE	SPACING
M12	100mm	65mm	75mm
M16	150mm	80mm	100mm
M20	200mm	100mm	120mm
M24	250mm	120mm	145mm
M30	300mm	145mm	180mm
M36	350mm	170mm	220mm
CHEMSET REO 502 + EPOXY ALL CONNECTIONS			

NOTE

FOOTING SIZES AS INDICATED. REFER ASTEC DWG FOR FULL PLANT LAYOUT AND DIMENSIONS.

FOOTINGS TO FOUND ON COMPETENT ROCK MIN 500 kPa ALL LOCATIONS U.N.O. PROVIDE N20 MASS CONCRETE BLINDING BELOW FOOTINGS AS REQUIRED.

FOOTINGS DENOTED BELOW SLABS REQUIRED FOR ADDITIONAL STRENGTH OVER HIGH LOADING. PROVIDE AS THICKENING WITHIN SLAB EXTENT.

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P3 30/05/2025 PRELIMINARY ISSUE
P2 15/05/2025 PRELIMINARY ISSUE
P1 21/03/2025 PRELIMINARY ISSUE
REV DATE REMARK

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PROJECT
1 CROOKED BILLET DRIVE
HAZELL BROS.
BRIDGEWATER ASPHALT PLANT

TITLE
STRUCTURAL
FOOTING PLAN

Accepted RAJC (Discipline Head)	Date 03/10/2025
Accepted GLA (Team Leader)	Date 03/10/2025
Approved CJM (Principal)	Date 03/10/2025

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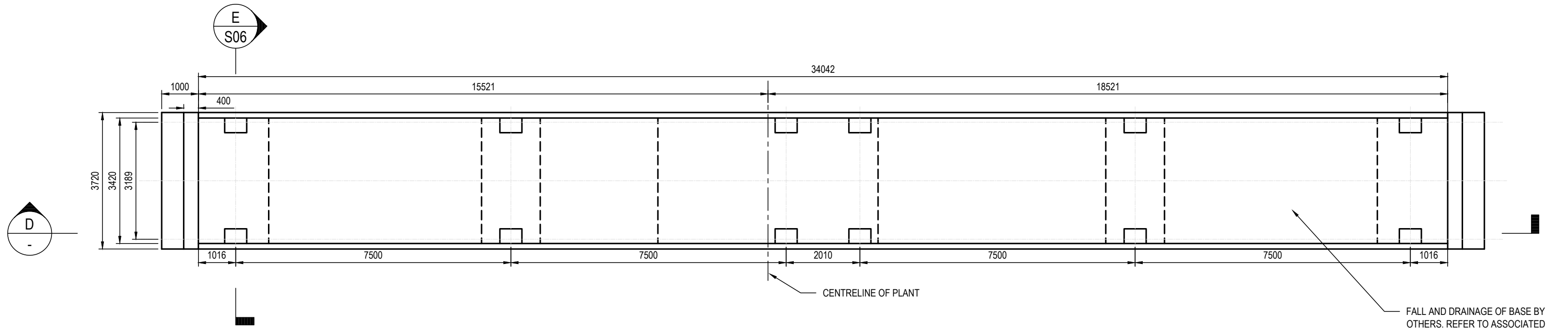
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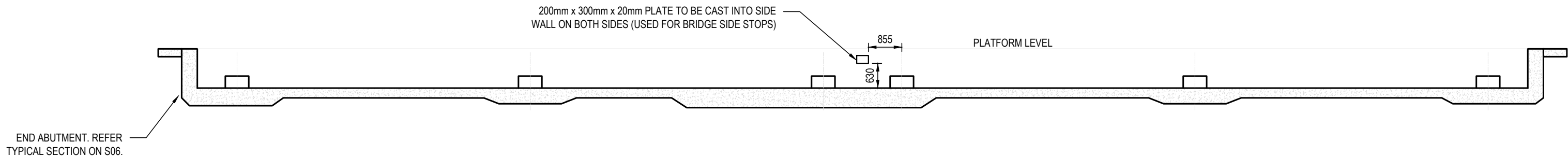
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WEIGHBRIDGE FOUNDATION LAYOUT

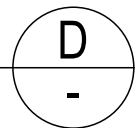
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ALL DIMENSIONS TO BE CONFIRMED
ONSITE WITH SUPPLIED PLANT.



SECTION

SCALE: 1:100



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PROJECT
1 CROOKED BILLET DRIVE
HAZELL BROS.
BRIDGEWATER ASPHALT PLANT

TITLE
WEIGHBRIDGE
FOUNDATION AND
SECTION

Accepted RAJC (Discipline Head)	Date 03/10/2025
Accepted GLA (Team Leader)	Date 03/10/2025
Approved CJM (Principal)	Date 03/10/2025

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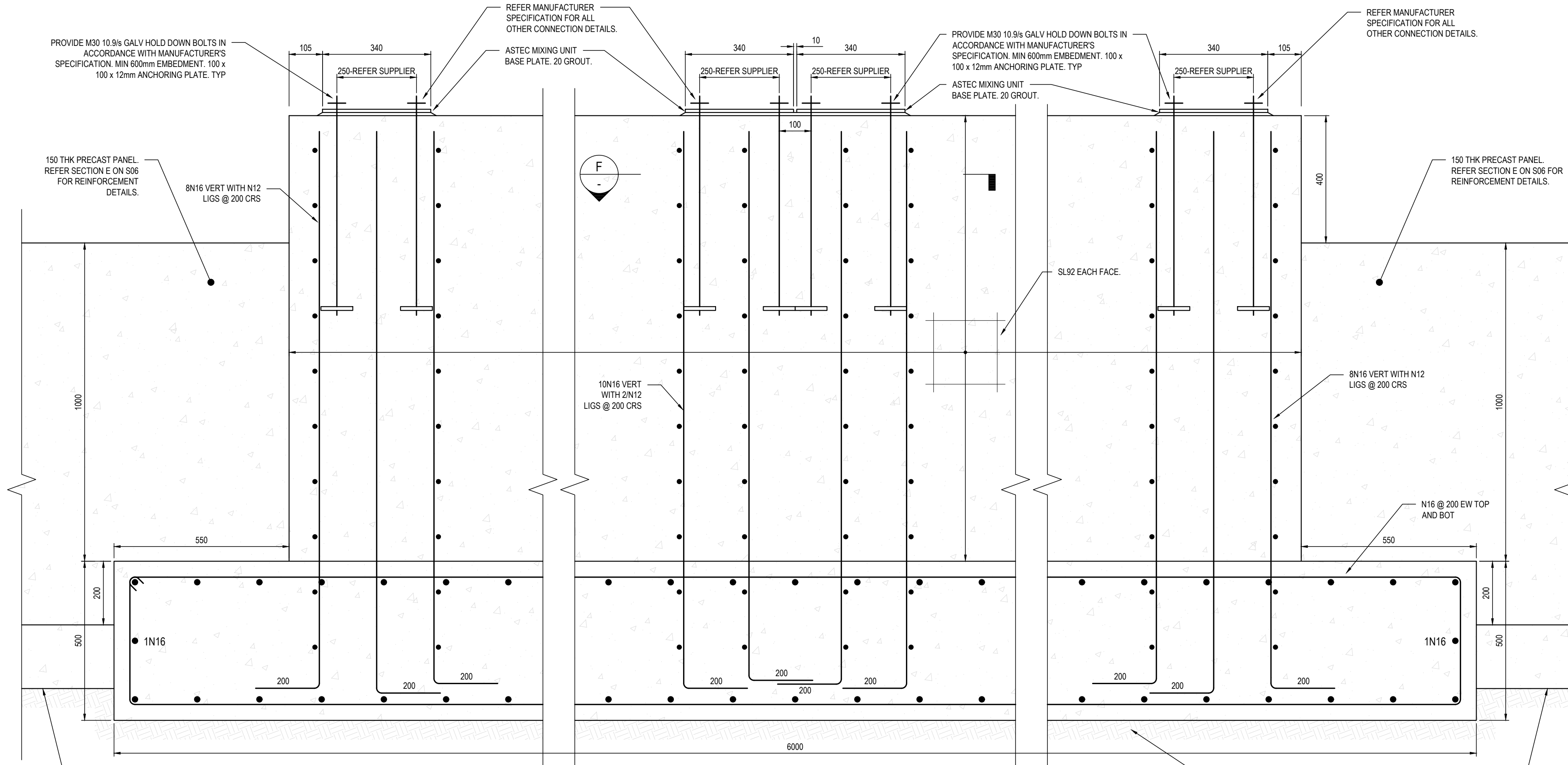
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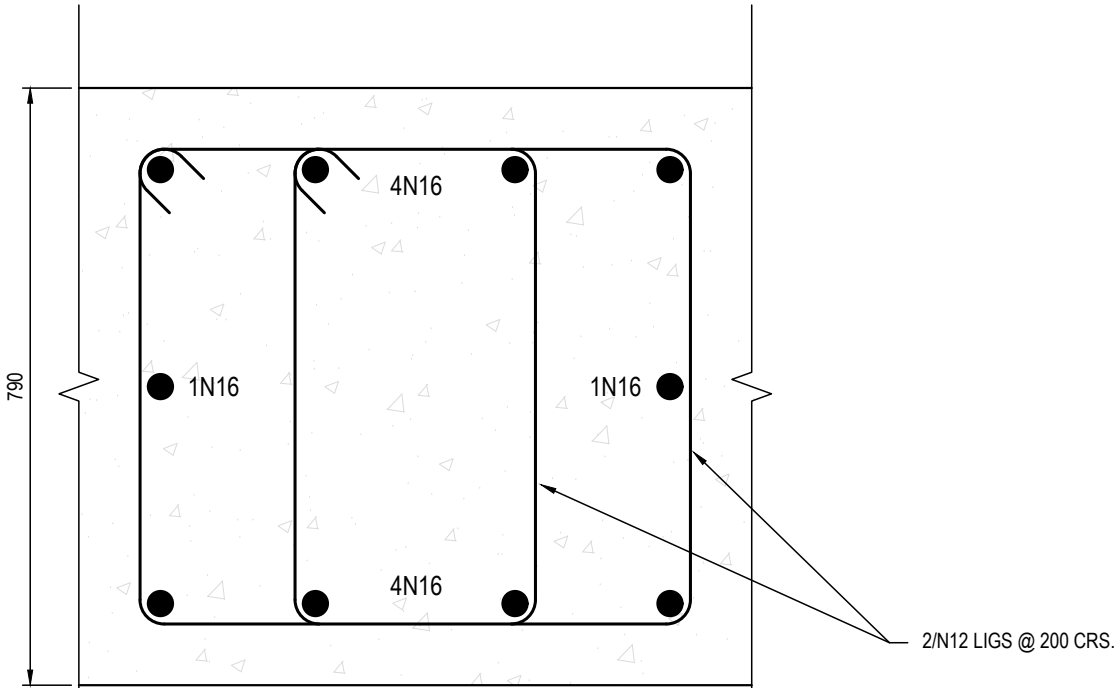
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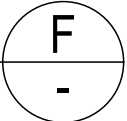


P3 FOOTING SECTION
SCALE: 1:10

ALL DIMENSIONS TO BE CONFIRMED
ONSITE WITH SUPPLIED PLANT.



SECTION
SCALE: 1:10



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PROJECT
1 CROOKED BILLET DRIVE
HAZELL BROS.
BRIDGEWATER ASPHALT PLANT

TITLE
STRUCTURAL
FOOTING SECTION

Accepted RAJC (Discipline Head)	Date 03/10/2025
Accepted GLA (Team Leader)	Date 03/10/2025
Approved CJM (Principal)	Date 03/10/2025

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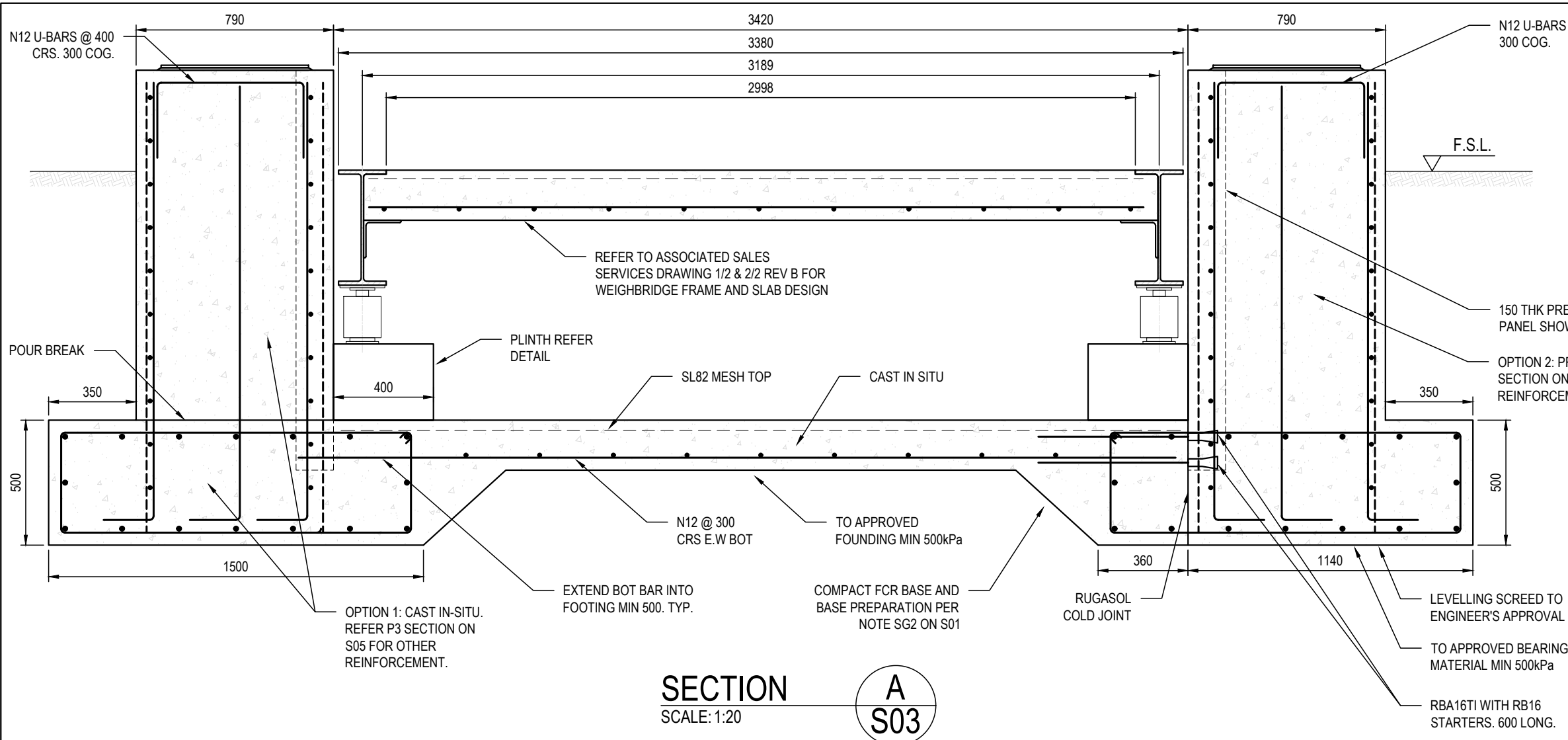
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PROJECT NO. 240559CS

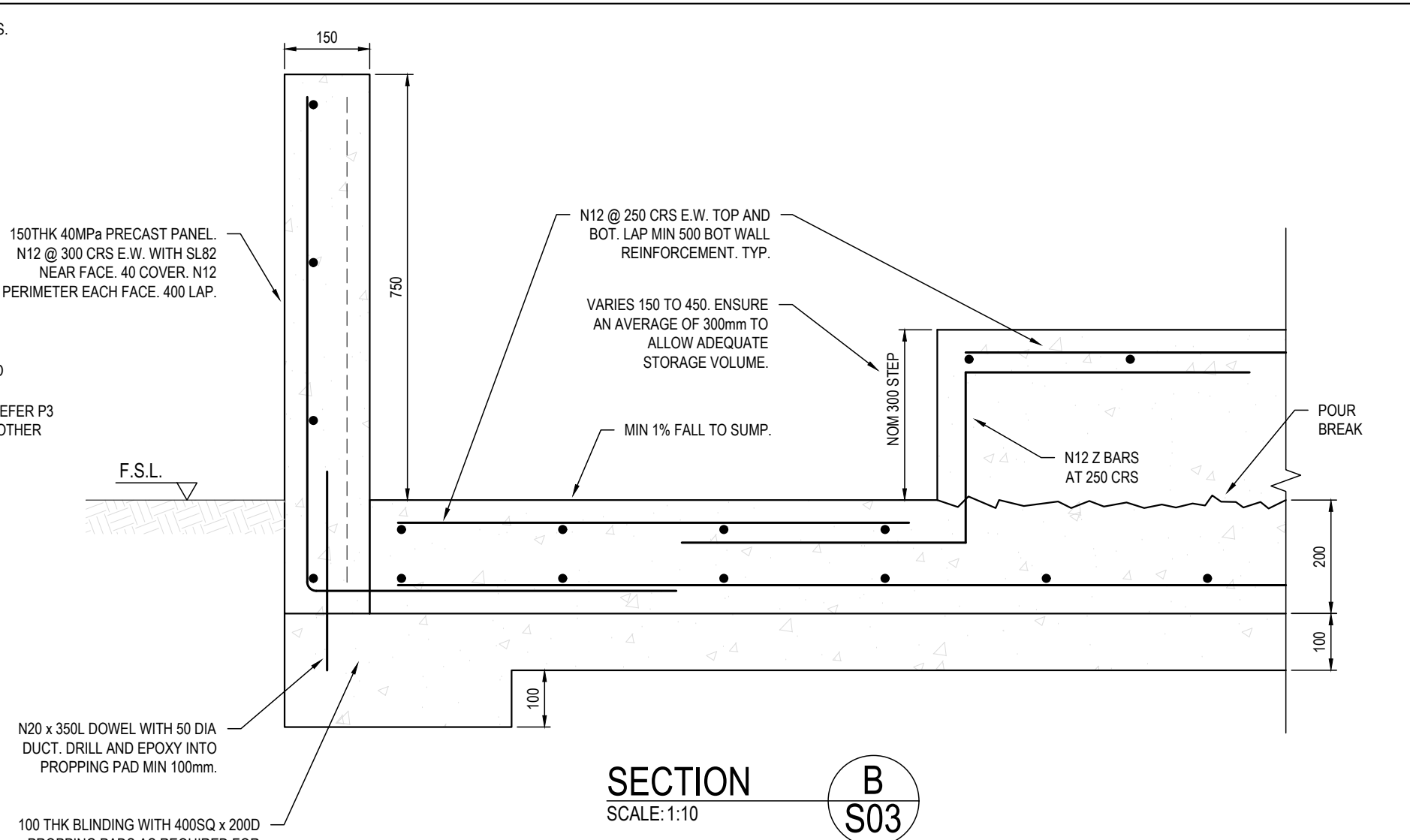
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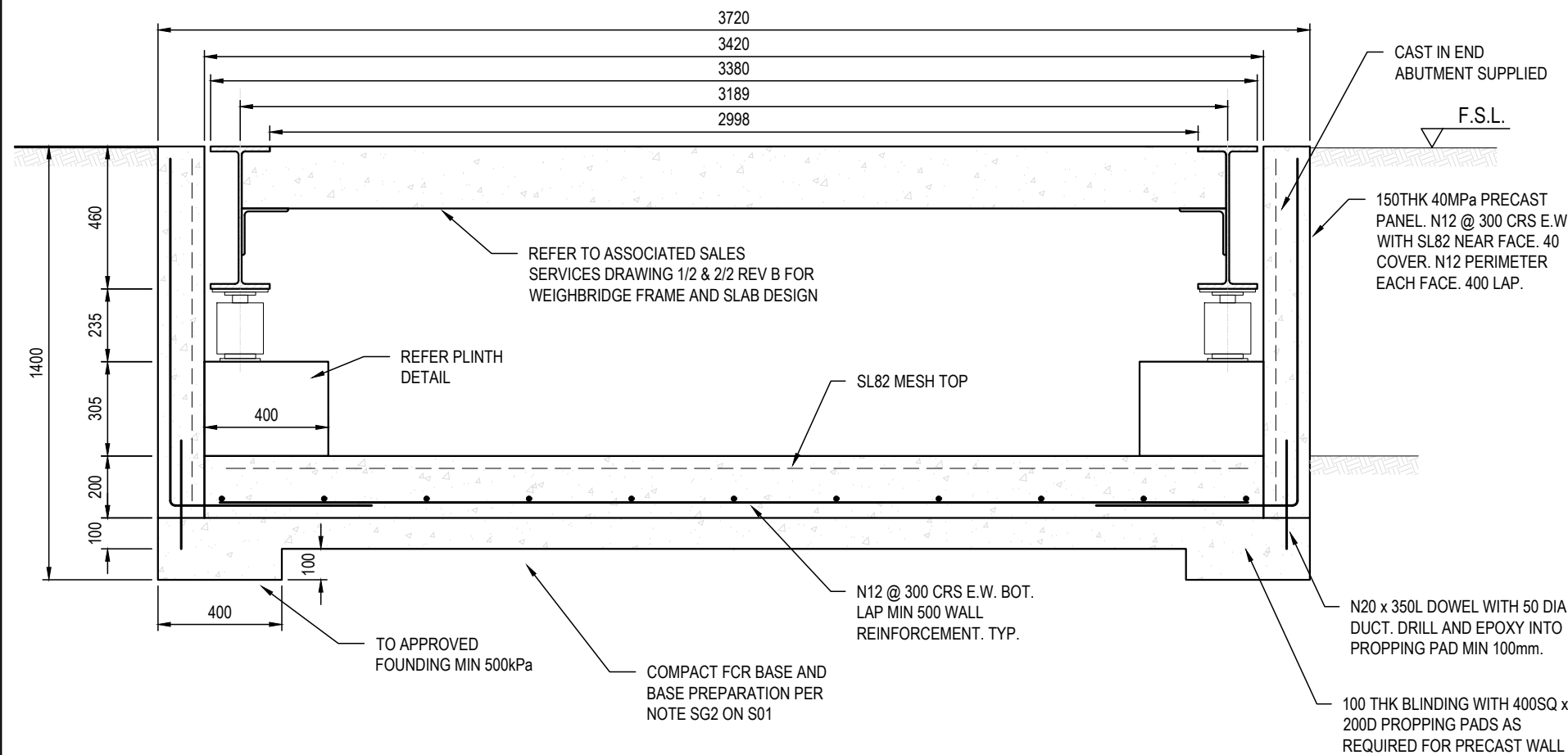


SECTION A
SCALE: 1:20
S03

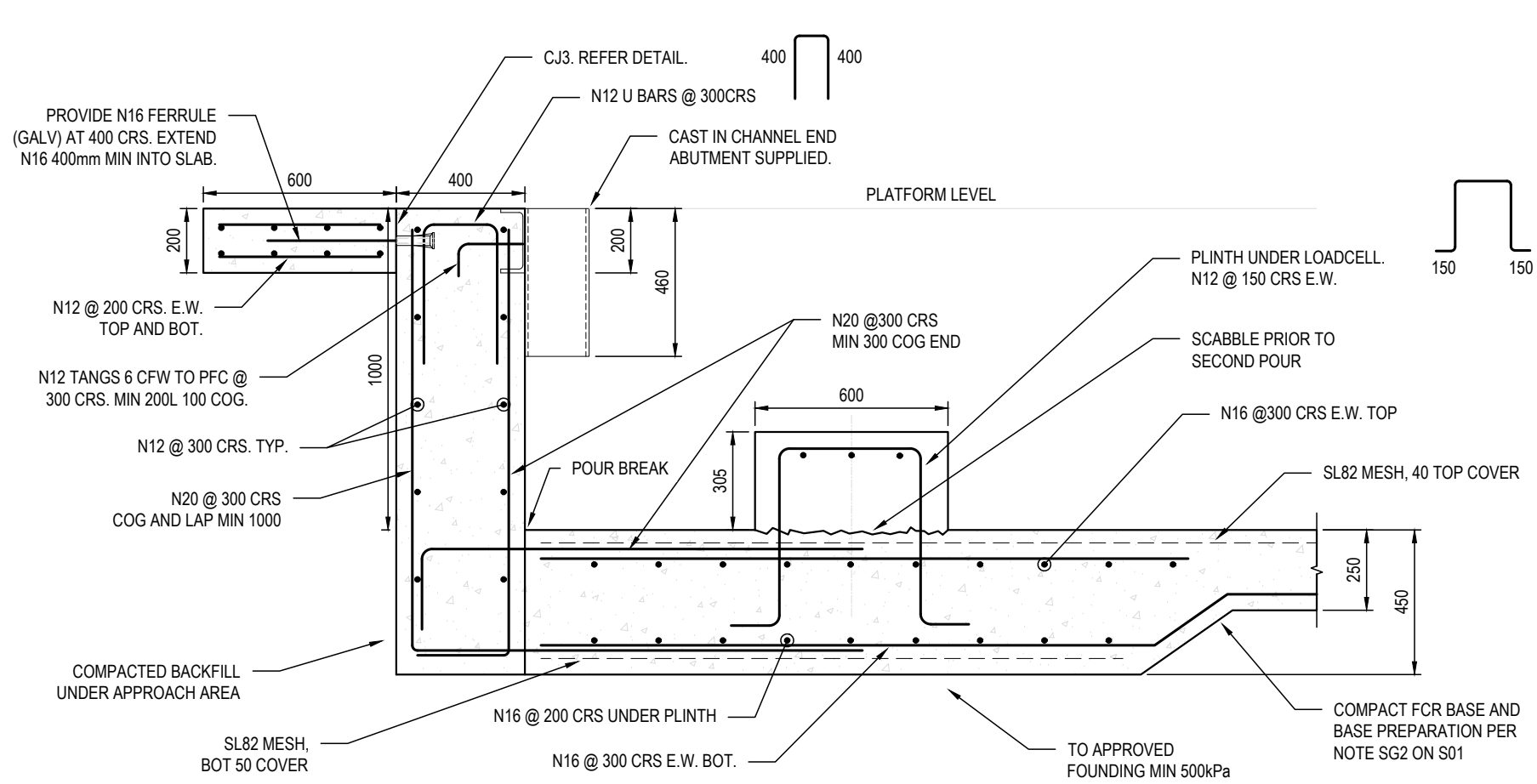
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SECTION B
SCALE: 1:10
S03

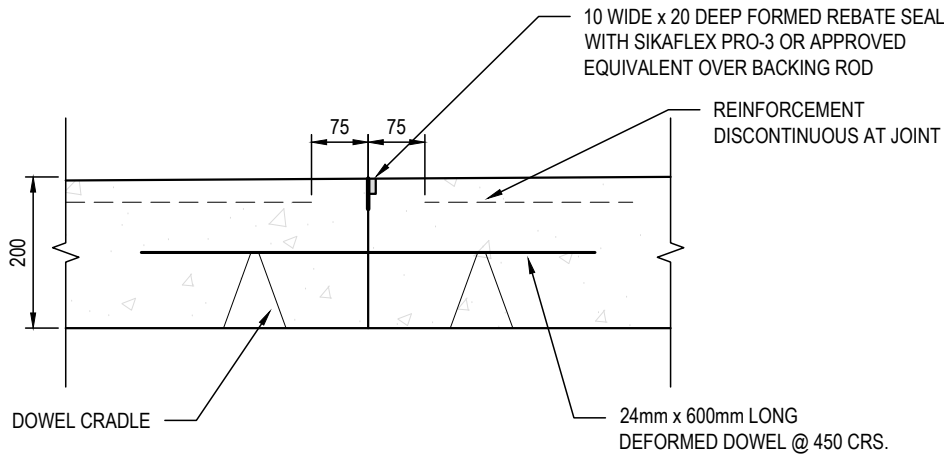


SECTION E
SCALE: 1:20
S04



TYPICAL PLINTH AND END ABUTMENT SECTION
SCALE: 1:20

TYPICAL REINFORCEMENT LAP TABLE	
BAR SIZE	LAP LENGTH (U.N.O.)
N12	650
N16	950
N20	1300
N24	1600
N28	1950



CONSTRUCTION JOINT (CJ3) AT POUR BREAK DETAIL
SCALE: 1:10

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PROJECT
1 CROOKED BILLET DRIVE
HAZELL BROS.
BRIDGEWATER ASPHALT PLANT
TITLE
STRUCTURAL
WALL AND PLINTH SECTIONS

Accepted RAJC (Discipline Head)	Date	03/10/2025
Accepted GLA (Team Leader)	Date	03/10/2025
Approved CJM (Principal)	Date	03/10/2025

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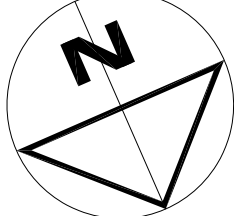
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PROJECT NO. 240559CS

DWG NO. S06	REVISION P4
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WORK IN PROGRESS
NOT FOR CONSTRUCTION



BACKGROUND IMAGE
FROM NOVEMBER 2022
PRE CONCRETE
PLANT INSTALLS

DISBURSING AREAS IN LINES. DO NOT SCALE. CHECK AND REVERIFY.
ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH:
LOCAL AUTHORITY REQUIREMENTS.
PROJECT: ASPHALT BATCHING PLANT
1 / 13 CROOKED BILLET DRIVE
BRIDGEWATER
HAZELL BROS GROUP PTY LTD

DRAWING:
PRE CONSTRUCTION
PERVIOUS / IMPERVIOUS AREAS
DRAWN: PAS
CHECKED:
SCALE: 1:500
PROJECT NO: 24.140
DRAWING NO: Cp24



GENERAL:

G1 IN THESE NOTES, APPROVED, DIRECTED, REQUIRED, REJECTED & SIMILAR EXPRESSIONS, SHALL MEAN APPROVED, DIRECTED, REQUIRED, REJECTED AND THE LIKE BY THE SUPERINTENDENT THROUGH THE CONTRACT.

G2 READ THESE DRAWINGS IN CONJUNCTION WITH ARCHITECTS AND OTHER DRAWINGS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED. THESE DRAWINGS SHALL TAKE PRECEDENCE OVER STRUCTURAL SPECIFICATION.

G3 BUILDING SET-OUT AND DIMENSIONS ARE DETERMINED BY THE ARCHITECT. DIMENSIONS EXPRESSED IN MILLIMETRES, UNO. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THESE DRAWINGS. SETTING OUT DIMENSIONS SHALL BE VERIFIED BEFORE COMMENCING WORK. JMG SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND THE ARCHITECTS OR OTHER DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

G4 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED. CONTRACTOR TO ENGAGE A TEMPORARY WORKS ENGINEER AS REQUIRED TO ENSURE COMPLIANCE WITH THE ABOVE.

G5 UNLESS NOTIFIED OTHERWISE, CONTRACTOR TO PROVIDE 48 HOURS NOTIFICATION FOR ANY WORKS REQUIRING SITE INSPECTION. ALL SITE INSPECTION REQUESTS ARE TO BE THROUGH THE SUPERINTENDENT.

SITE INSPECTIONS SHALL NOT BE ASSUMED TO BE UNDERTAKEN ON BEHALF OF THE BUILDING SURVEYOR, UNLESS NOTIFIED OTHERWISE. THE BUILDING SURVEYOR SHALL BE NOTIFIED OF ANY MANDATORY INSPECTIONS AS NOTED IN THE CERTIFICATE OF LIKELY COMPLIANCE.

WHERE A MANDATORY INSPECTION IS BEING UNDERTAKEN ON BEHALF OF THE BUILDING SURVEYOR, WORK SHALL NOT PROCEED UNTIL SUCH TIME AS THE BUILDING SURVEYOR HAS ISSUED THEIR CONSENT.

FOR NON-MANDATORY INSPECTIONS, WORKS SHALL NOT PROCEED UNTIL WRITTEN APPROVAL HAS BEEN PROVIDED BY THE SUPERINTENDENT.

ANY WORKS FOUND TO BE DEFECTIVE AND REQUIRE RE-INSPECTING WILL BE AT THE CONTRACTORS COST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE WORKS ARE READY FOR INSPECTION. WHETHER THE WORKS ARE DEFECTIVE IS AT THE SOLE DISCRETION OF JMG.

AFTER RECEIVING THE SITE INSPECTION REPORT THE CONTRACTOR SHALL ENSURE THE NOTED RECTIFICATION WORKS ARE COMPLETED AND THE REPORT SIGNED AND RETURNED TO JMG WITH PHOTOGRAPHIC EVIDENCE.

THE WORKS BEING INSPECTED SHALL NOT BE COVERED IN UNTIL SUCH TIME AS DIRECTED BY THE SUPERINTENDENT.

ANY COMMENTS MADE BY JMG DURING OUR INSPECTION ARE NOT CONTRACTUAL UNTIL SUCH TIME AS ISSUED IN WRITING BY THE SUPERINTENDENT. ANY ACTIONS UNDERTAKEN BY THE CONTRACTOR BASED ON VERBAL DISCUSSIONS ARE AT THE SOLE RISK OF THE CONTRACTOR.

THE CONTRACTOR SHALL MANAGE THEIR PROGRAM TO ENSURE ADEQUATE TIME IS ALLOWED FOR THE ABOVE PROCESS.

THE CONTRACTOR SHALL RAISE ANY REQUIREMENTS WITHIN THE SITE INSPECTION REPORT THAT THEY CONSIDER AN EXTRA COST TO THE PROJECT AND OBTAIN DIRECTION FROM THE SUPERINTENDENT PRIOR TO PROCEEDING.

G6 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC & TO THE FOLLOWING CRITERIA:

IMPORTANCE LEVEL: 2
DESIGN LIFE: 50

DESIGN EVENT APE	SERVICEABILITY	ULTIMATE
WIND	37	45

G7 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED ACCORDING TO AS 1170.2 FOR A REGIONAL WIND SPEED OF A4 IN TERRAIN CATEGORY 2.5.

G8 WORK HEALTH & SAFETY NOTICE: JMG HAVE CONSIDERED THE HAZARDS AND RISKS ASSOCIATED WITH THE CONSTRUCTION, OPERATION, MAINTENANCE AND EVENTUAL DEMOLITION OF THIS PROJECT. THERE ARE A NUMBER OF HAZARDS AND HENCE RISKS WHICH ARE NOT UNIQUE TO THIS PROJECT WHICH NEED TO BE MANAGED DURING THESE PHASES. JMG REMIND CONSTRUCTORS, OPERATORS, MAINTAINERS AND DEMOLISHERS OF THEIR RESPONSIBILITIES UNDER WORK HEALTH & SAFETY ACTS AND REGULATIONS. THE FOLLOWING RISKS HAVE BEEN IDENTIFIED WHICH ARE UNIQUE TO THIS PROJECT:

• NIL

G9 DEFLECTIONS:
ALL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THEB SUGGESTED SERVICEABILITY LIMIT STATE CRITERIA AS OUTLINED IN AS1170.0 TABLE C1 AND ALL RELEVANT MATERIAL STANDARDS FOR THE APPROPRIATE USE. WHERE A HIGHER LEVEL OF DEFLECTION PERFORMANCE IS DESIRED, THE ARCHITECT SHALL CONSULT THE ENGINEER AND PROVIDE THE SPECIFIC CRITERIA TO BE ACHIEVED.

STEELWORK:

S1 WORKMANSHIP, MATERIALS AND DESIGN SHALL BE IN ACCORDANCE WITH NCC AND ASSOCIATED CODES LISTED THEREIN AND THE SPECIFICATION. ALL IMPORTED STEELWORK (MANUFACTURED OUTSIDE OF AUSTRALIA) SHALL NOT BE USED UNLESS DOCUMENTATION SHOWING ENTIRE COMPLIANCE WITH AS 4100 IS PROVIDED.

S2 UNLESS NOTED OTHERWISE STEEL ELEMENTS SHALL BE OF THE FOLLOWING GRADES:

GENERAL SECTIONS - BHP 300+ (UB/UC/PFC/LARGE ANGLES)

- GRADE 300 TO AS 3678/3679

(OTHER SECTIONS)

RHS & SHS - GRADE 350 TO AS 1163

CHS <= 890 - GRADE 250 TO AS 1163

CHS >= 890 - GRADE 350 TO AS 1163

PURLINS & GIRTS - GRADE G450-Z200 TO AS 1397

DURAGAL - GRADE C450LO TO AS 1163

S3 REFER TO ARCHITECT'S OR OTHER DRAWINGS FOR NON-STRUCTURAL STEEL NOT SHOWN ON THESE DRAWINGS.

S4 BOLTING PROCEDURES ARE IDENTIFIED AS FOLLOWS:

BOLTING PROCEDURE	GRADE MPa	BOLT TO AS	METHOD OF INSTALLATION	NOTES
4.6/s	4.6	AS 1111	SNUG TIGHTENED	
8.8/s	8.8	AS 1252	SNUG TIGHTENED	
8.8/TF	8.8	AS 1252	FULLY TENSIONED LOAD INDICATOR WASHERS.	FRICTION TYPE JOINT
8.8/TB	8.8	AS 1252	FULLY TENSIONED LOAD INDICATOR WASHERS.	BEARING TYPE JOINT

ALL BOLTS TO BE OF SUCH LENGTH THAT AT LEAST ONE FULL THREAD IS EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED.

S5 PURLINS AND GIRTS SHALL BE SUPPLIED AS SPECIFIED WITH BRIDGING AND TIES IN ACCORDANCE WITH STRUCTURAL DOCUMENTATION AND TO THE MANUFACTURER'S SPECIFICATION, OR 3000 MAXIMUM UNSUPPORTED LENGTH U.N.O. SUBSTITUTION SHALL NOT BE MADE UNLESS APPROVED.

S6 ALL COLD FORMED STEELWORK, SHALL BE MANUFACTURED AND CERTIFIED IN ACCORDANCE WITH AS 4600.

S7 UNLESS NOTED OTHERWISE ALL FILLET WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS, SP CATEGORY, IN ACCORDANCE WITH AS 1554

S8 ALL BUTT WELDS SHALL BE PRE-QUALIFIED COMPLETE PENETRATION SP CATEGORY AND SHALL UTILISE "RUN-ON RUN-OFF" PLATES.

S9 ALL STRUCTURAL WELDING (SP) TO BE CARRIED OUT IN ACCORDANCE WITH A QUALIFIED WELDING PROCEDURE, BY SUITABLY QUALIFIED WELDERS AND UNDER THE SUPERVISION OF A WELDING SUPERVISOR WHO IS EMPLOYED BY OR CONTRACTED TO THE FABRICATOR TO CERTIFY THE WORKS AS PER AS 1554 SECTION 1.7.

S10 ELECTRODES SHALL BE:

E41xx OR E48xx TO AS 1553 FOR MMAW

W500 TO AS 2717 FOR GMAW

W500 TO AS 2203 FOR FCAW

• W500 TO AS 1858 FOR SAW

S11 GROUT UNDER BASE PLATES SHALL BE 2:1 SAND/CEMENT MORTAR MIXED NEARLY DRY AND RAMMED HARD MINIMUM 20 THICK, MAXIMUM 40 THICK. ALTERNATIVELY USE MASTER BUILDER'S MASTERFLOW TYPE 870A CEMENT GROUT (FLOWABLE GRADE) 20 THICK MAX.

S12 SUSPENDED ELEMENTS, SUCH AS CEILINGS, AIR CONDITIONING UNITS, DUCTWORK AND PIPEWORK MUST BE SUITABLY SUPPORTED DIRECTLY FROM PURLIN WEBS ONLY. SUPPORT FOR HEAVIER UNITS OR PLANT MUST BE SUITABLY DESIGNED AND MAY REQUIRE DISTRIBUTION BETWEEN NUMEROUS PURLINS.

S13 PREPARE AND PRIME PAINT STEEL IN ACCORDANCE WITH AS 2312.1 AS FOLLOWS: (ARCH SHALL PROVIDE A PROJECT SPECIFIC PAINT SPECIFICATION BY SPECIALIST PAINT MANUFACTURER NOT LESS THAN THE PARAMETERS OUTLINED BELOW

- INTERNAL STEELWORK - CATEGORY C1
 - PREPARATION - AS 1627.4 CLASS 1
 - PRIME COAT - 50 MICRONS OF ZINC PHOSPHATE
- EXTERNAL STEELWORK - CATEGORY C2-C3
 - PREPARATION - AS 1627.4 CLASS 2.5
 - PRIME COAT - 75 MICRONS OF INORGANIC ZINC
 - ALL COATING TO BE FROM THE SAME MANUFACTURER AND SUBJECT TO ARCHITECT/ENGINEER APPROVAL .

FOR CORROSIONITY INDEX OF C4 OR HIGHER THE ARCHITECT SHALL SPECIFY A MULT-COAT PROTECTIVE SYSTEM TO ACHIEVE THE REQUIRED PROTECTION DESIGN LIFE.

S14 THE CONTRACTOR SHALL ENGAGE A SUITABLY QUALIFIED ENGINEER TO PROVIDE SEISMIC RESTRAINTS FOR ALL SERVICES AND ARCHITECTURAL COMPONENTS AS REQUIRED BY AS 1170.4.

S15 ENDS OF ALL TUBULAR MEMBERS SHALL BE SEALED WITH MINIMUM 4PL END PLATES FULLY WELDED ALL AROUND O.N.O.

S16 HOT DIP GALVANISING:

- STEELWORK TO BE HOT DIP GALVANISING IS AS DESCRIBED OR NOTED AS (GALV) ON THE PROJECT DRAWINGS. PREPARE TO CLASS 2 / AS 1627.4. PROVIDE PAINTING AS NOTED IN 'S13' ABOVE, NEW COATING OVER GALVANISING FOR BARRIER AND / OR FINISH COATS.

- CORROSIONITY CATEGORY C4 IN ACCORDANCE WITH AS / NZS 2312.2 GALVANISING TO BE MIN HDG600, 600 gm/m2 IN ACCORDANCE WITH AS / NZS 4680.
- DAMAGE TO GALVANISING SHALL BE REPAIRED BY FOLLOWING THE RECOMMENDATIONS IN AS 4680 - REPAIR AFTER GALVANISING.
- A CERTIFICATE SHALL BE PROVIDED STATING THE GALVANISING COMPLIES WITH THE REQUIREMENTS OF AS 4680.

SHOP DRAWINGS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS FOR ALL STEELWORK, PRECAST AND POST-TENSIONED ELEMENTS, INCLUDING TEMPORARY FALSEWORK AND ERECTION EQUIPMENT.

ALL SHOP DRAWINGS SHALL BE SUBMITTED IN PDF AND IFC FORMAT TO THE SUPERINTENDENT FOR REVIEW NOT LESS THAN 21 DAYS PRIOR TO THE ANTICIPATED DATE OF COMMENCEMENT OF FABRICATION. DRAWINGS WILL BE RETURNED TO THE CONTRACTOR WITH THE SUPERINTENDENT'S COMMENTS AND/OR ACCEPTANCE IN WRITING WITHIN THE CONTRACTUAL RETURN PERIOD. FABRICATION SHALL NOT COMMENCE UNTIL RECEIPT OF THE SUPERINTENDENT'S WRITTEN ACCEPTANCE.

STEELWORK:

THE DRAWINGS SHALL SHOW FULL AND COMPLETE INFORMATION REGARDING THE SIZE, LOCATION, TYPE OF MEMBER SECTION, GRADES AND WELDS. SEQUENCING SHALL BE SHOWN TO MINIMISE CONSTRUCTION STRESSES AND DISTORTION.

PROPER ATTENTION SHALL BE TAKEN TO ALLOCATION OF SITE WELDS WHERE SHOWN. SITE WELDS ARE INTENTIONAL AND SPECIFIC.

SHOULD ALTERNATIVE CONNECTIONS BE DESIRED OTHER THAN THE ONES DOCUMENTED, THE CONTRACTOR/ SHOP DETAILER SHALL REQUEST A DESIGN VARIATION FROM THE SUPERINTENDENT BY THE DESIGN ENGINEER AT THEIR COST. SHOP DRAWINGS THAT DEMONSTRATE INTENTIONAL ALTERATION FROM THE DESIGN INTENT WITHOUT EXPRESS CONSENT OF THE SUPERINTENDENT, SHALL BE RETURNED WITHOUT REVIEW FOR REVISION AT THE CONTRACTOR'S COST. THE APPROVED WELDING PROCEDURES SHALL BE FULLY DETAILED ON THE SHOP DRAWINGS AND STRICTLY ADHERED TO IN PRODUCTION.

ABBREVIATIONS: (REFER A.S. CZ1 PART 2)

BOTTOM	BOT
BRICK/BLOCK CONTROL JOINT	BCJ
CAST IN PLATE	CIP
CONSTRUCTION JOINT	CJ# (AS NUMBERED ON PLAN)
CONTINUOUS FILLET WELD	CFW
CONTROL JOINT	CONT_# (AS NUMBERED ON PLAN)
DIAMETER	DIA (OR Ø)
EACH FACE	EF
EACH WAY	EW
EXISTING SURFACE LEVEL	ESL
EXPANSION JOINT	EJ#(AS NUMBERED ON PLAN)
FAR FACE	FF
FINISHED FLOOR LEVEL	FFL
FULL STRENGTH BUTT WELD	FSBW
FINISHED SURFACE LEVEL	FSL
GALVANISED	GSLV
GROUND SURFACE LEVEL AS CUT	GSL
KILOPASCAL	kPa
LIVE LOAD	LL
MEGAPASCAL	MPa
NEAR FACE	NF
REDUCED LEVEL	RL
TOP AND BOTTOM	T&B
UNLESS NOTED OTHERWISE	UNO

P2	30.09.25	PRELIMINARY ISSUE
P1	15.08.25	PRELIMINARY ISSUE
REV	DATE	REMARK

SAFETY IN DESIGN REPORT PER WHS REGULATIONS

The following table which are unique to this design have been completed.	NIL
This report does not relieve contractors from their responsibilities under the Act to identify, report, mitigate and manage all aspects of risk and safety.	

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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER - FEEDER CANOPY

TITLE
STRUCTURAL
NOTES SHEET
SHEET 1

Accepted RAJC (Discipline Head)	Date 30/09/2025
Accepted RAJC (Team Leader)	Date 30/09/2025
Approved C/M (Principal)	Date 30/09/2025

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	LC	CRZ
	PLOT DATE	30/09/2025

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PLOT DETAILS 240559CS-S-FEEDER CANOPY.DWG

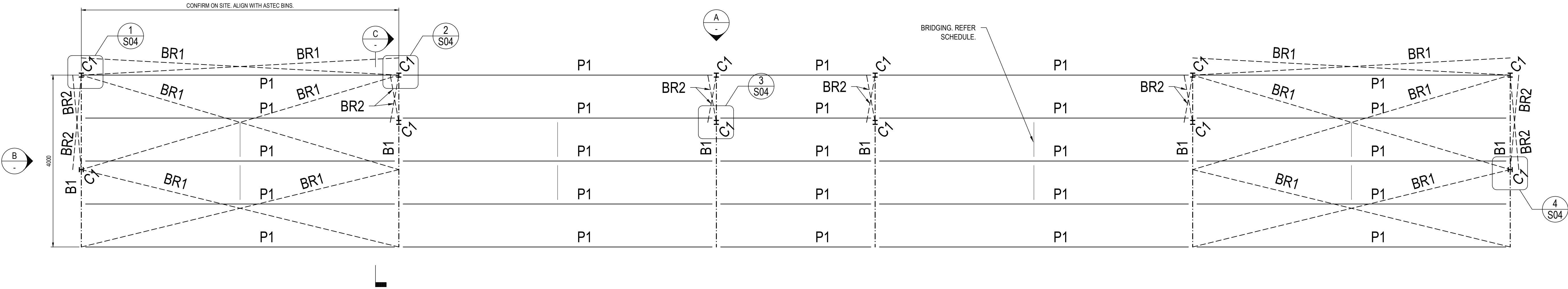
PROJECT NO. 240559CS

DWG NO. S01	REVISION P2
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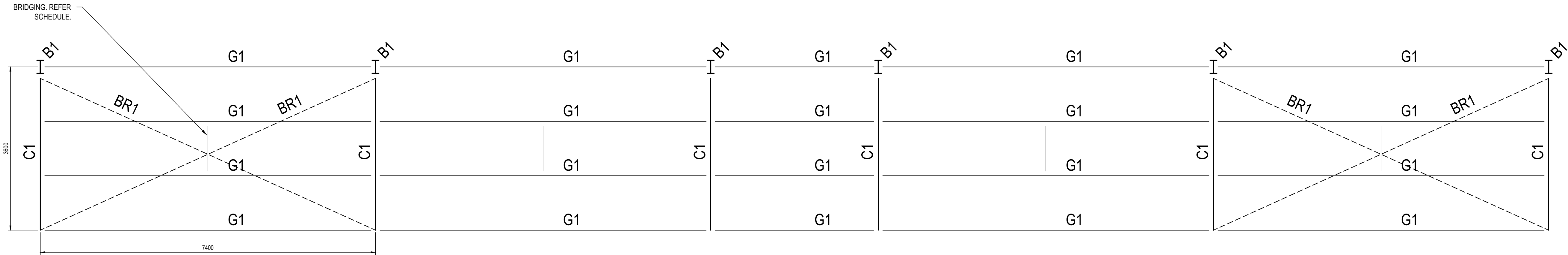
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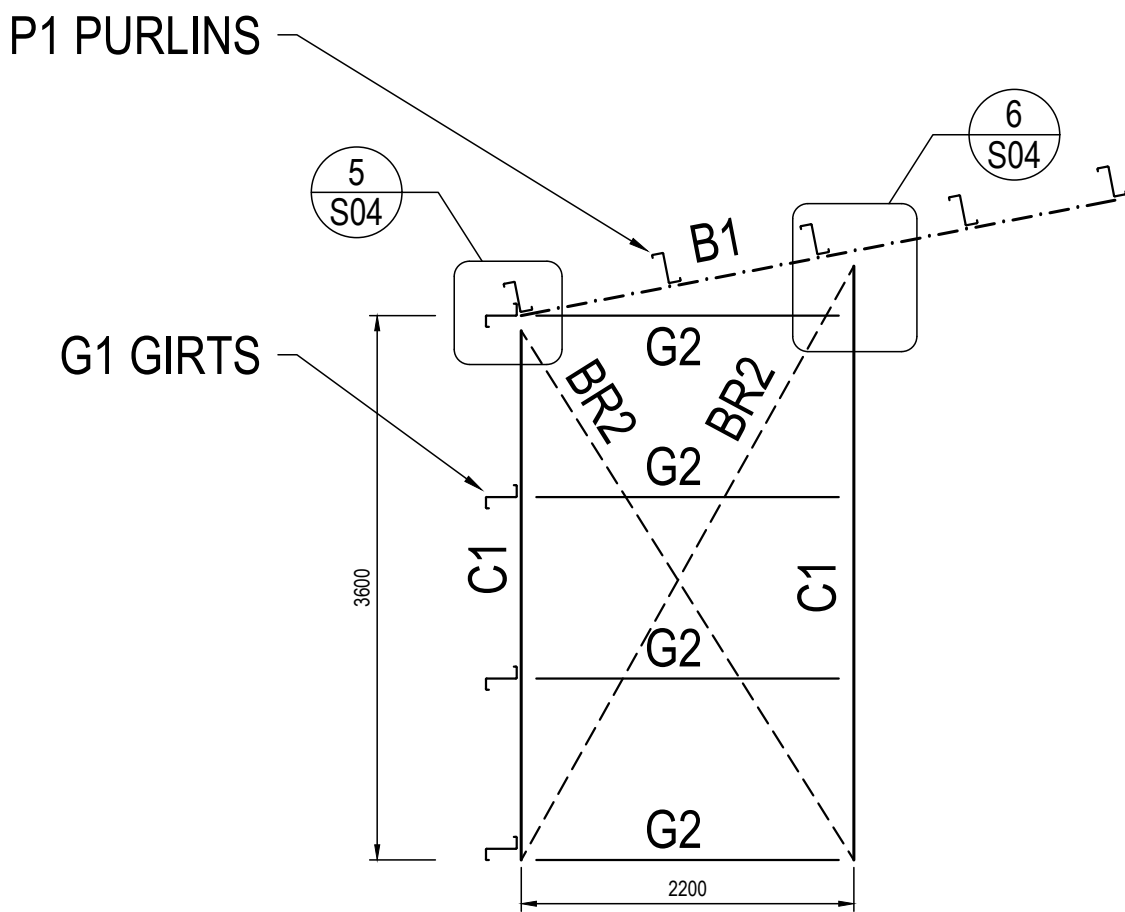
FRAMING MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
B1	310UB32	
C1	100UC14.8	
P1	Z20019 @ 1000 CRS	LAPPED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, 1 ROW BRIDGING
G1	Z20019 @ 1200 CRS	LAPPED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, 1 ROW BRIDGING
G2	Z10012 @ 1200 CRS	
S1	55 x 5 EA	
BR1	12 Ø REIDBRACE	
BR2	20 Ø REIDBRACE	



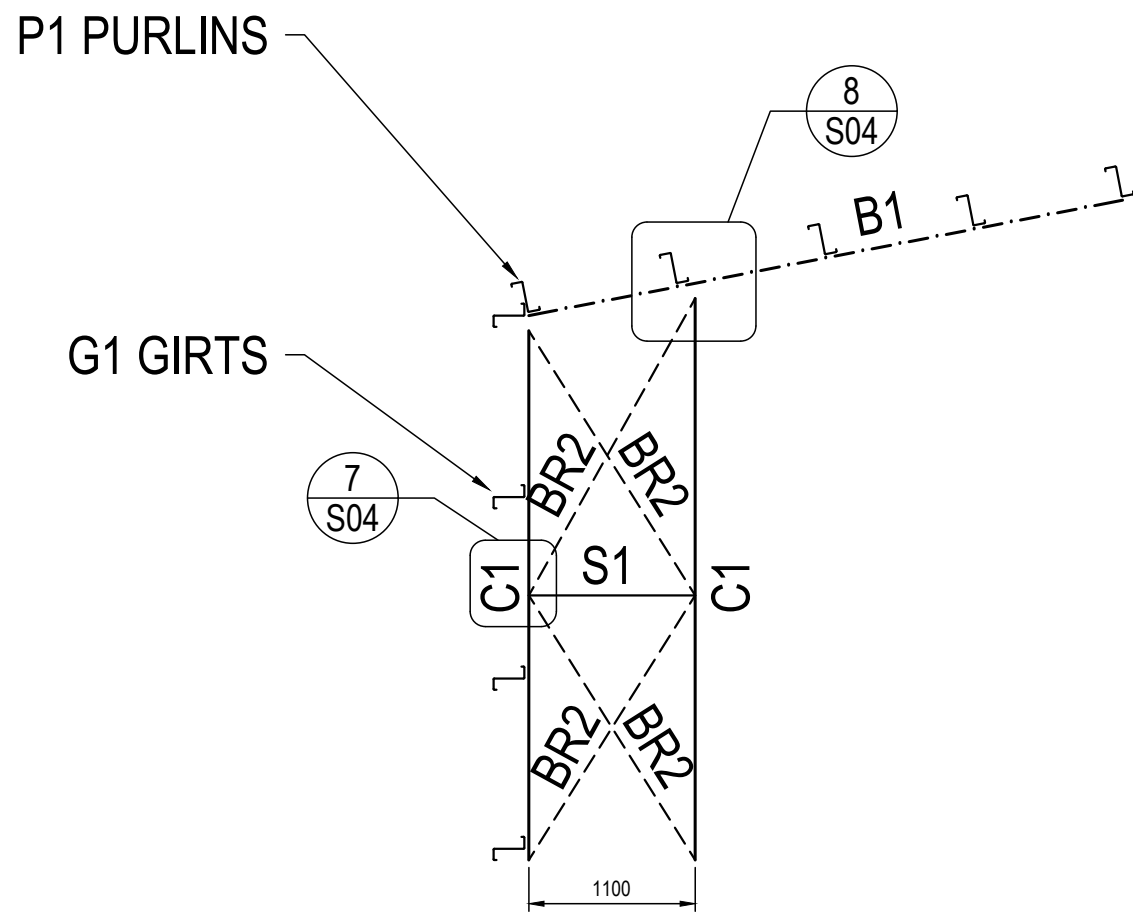
CANOPY FRAMING AND BRACING PLAN (VIRGIN FEEDER BINS)
SCALE: 1:50



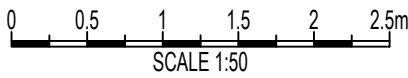
ELEVATION A
SCALE: 1:50



ELEVATION B
SCALE: 1:50



SECTION C
SCALE: 1:50



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P2	30.09.25	PRELIMINARY ISSUE
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REV	DATE	REMARK
SAFETY IN DESIGN REPORT PER WHS REGULATIONS		
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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER - FEEDER CANOPY

TITLE
STRUCTURAL
FRAMING PLAN,
ELEVATIONS AND SECTION

Accepted RAJC (Discipline Head)	Date 30/09/2025
Accepted RAJC (Team Leader)	Date 30/09/2025
Approved C/M (Principal)	Date 30/09/2025

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1:50	PLOT DATE	30/09/2025

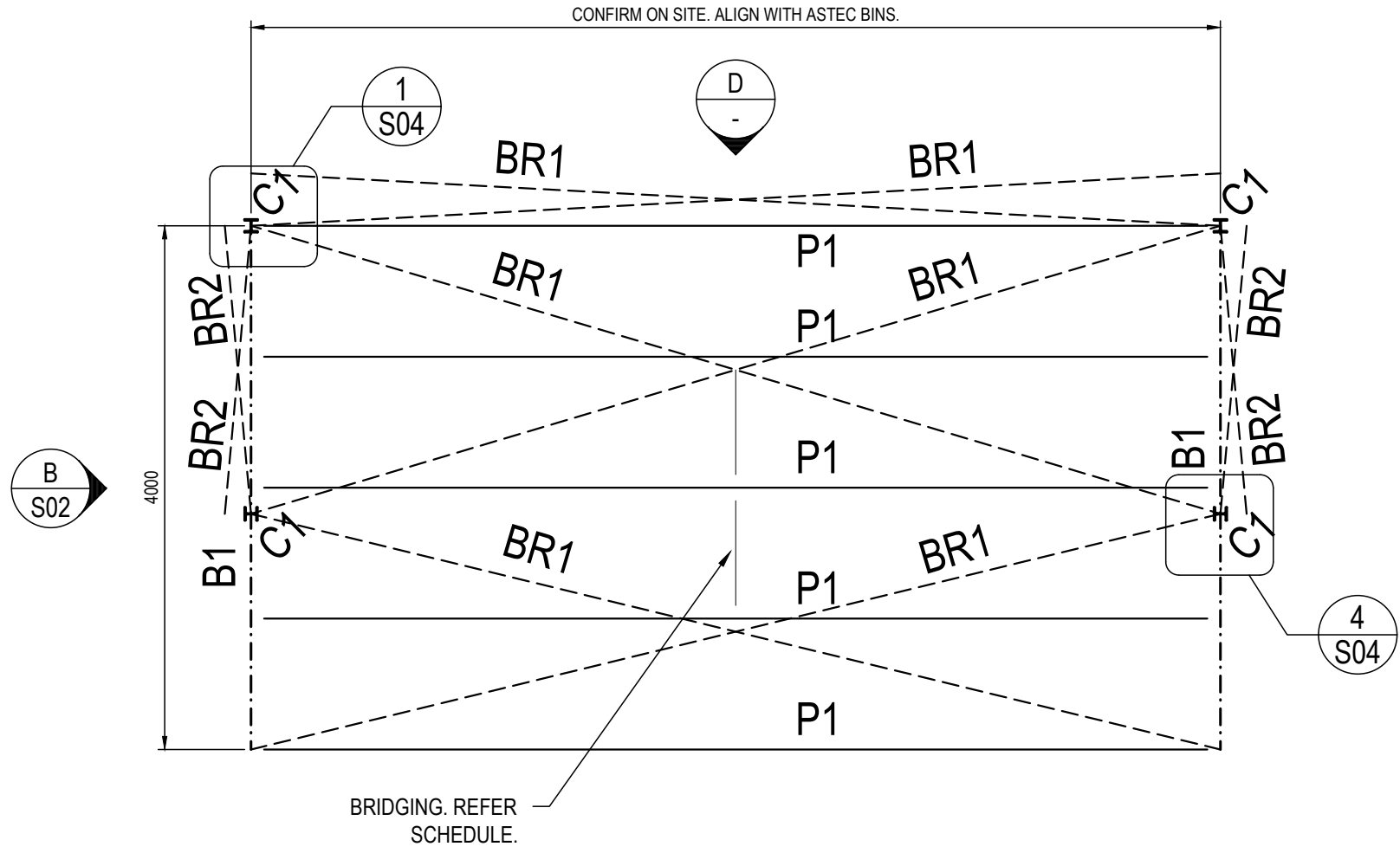
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PLOT DETAILS 240559CS-S-FEEDER CANOPY.DWG

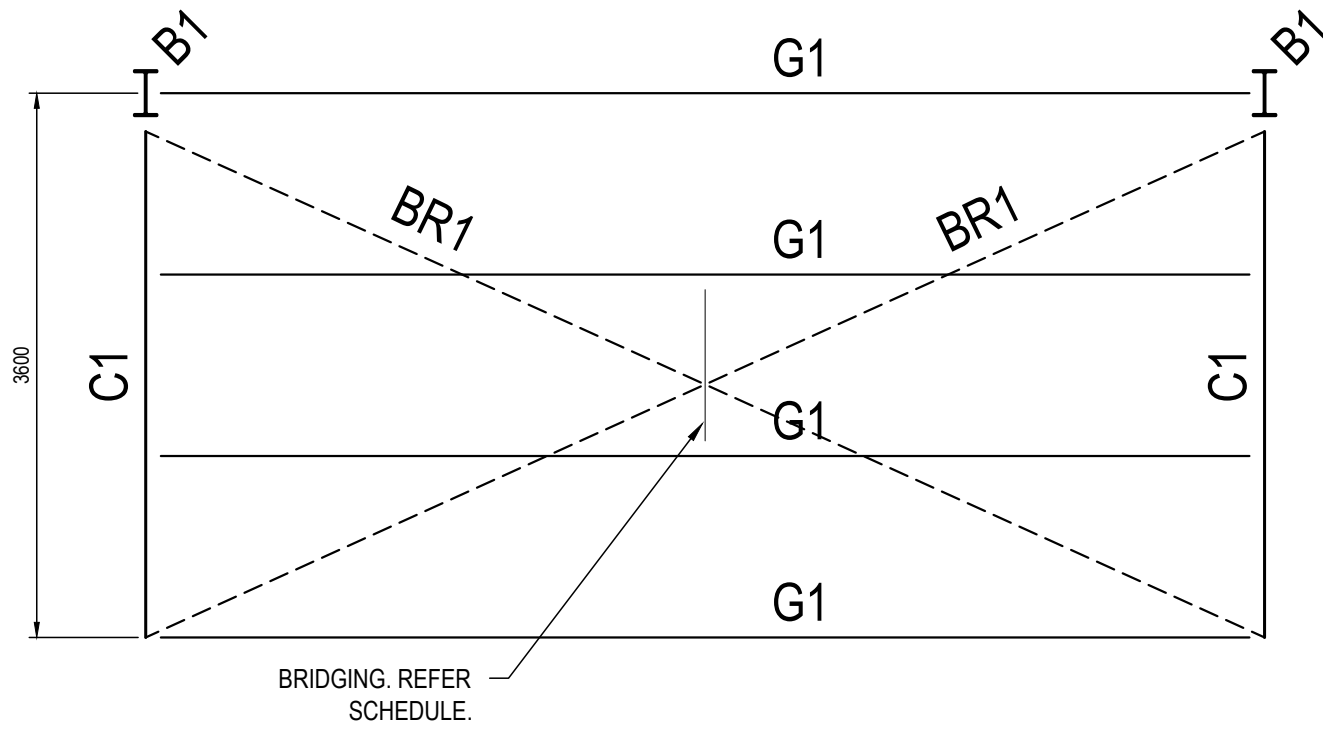
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CANOPY FRAMING AND BRACING PLAN (RAP HOT AND RAP COLD BINS)
SCALE: 1:50



ELEVATION
SCALE: 1:50

FRAMING MARKING SCHEDULE		
MARK	MEMBER	COMMENTS
B1	310UB32	
C1	100UC14.8	
P1	Z20019 @ 1000 CRS	LAPPED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, 1 ROW BRIDGING
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G2	Z10012 @ 1200 CRS	
S1	55 x 5 EA	
BR1	12 Ø REIDBRACE	
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PROJECT
ASPHALT BATCHING PLANT
1 CROOKED BILLET DRIVE
BRIDGEWATER - FEEDER CANOPY

TITLE
STRUCTURAL
FRAMING PLAN AND
ELEVATION (RAP BINS)

Accepted RAJC (Discipline Head)	Date 30/09/2025
Accepted RAJC (Team Leader)	Date 30/09/2025
Approved C/M (Principal)	Date 30/09/2025

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1:50	LC	CRZ
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PLOT DETAILS 240559CS-S-FEEDER CANOPY.DWG

PROJECT NO. 240559CS

DWG NO.	REVISION
S03	P2

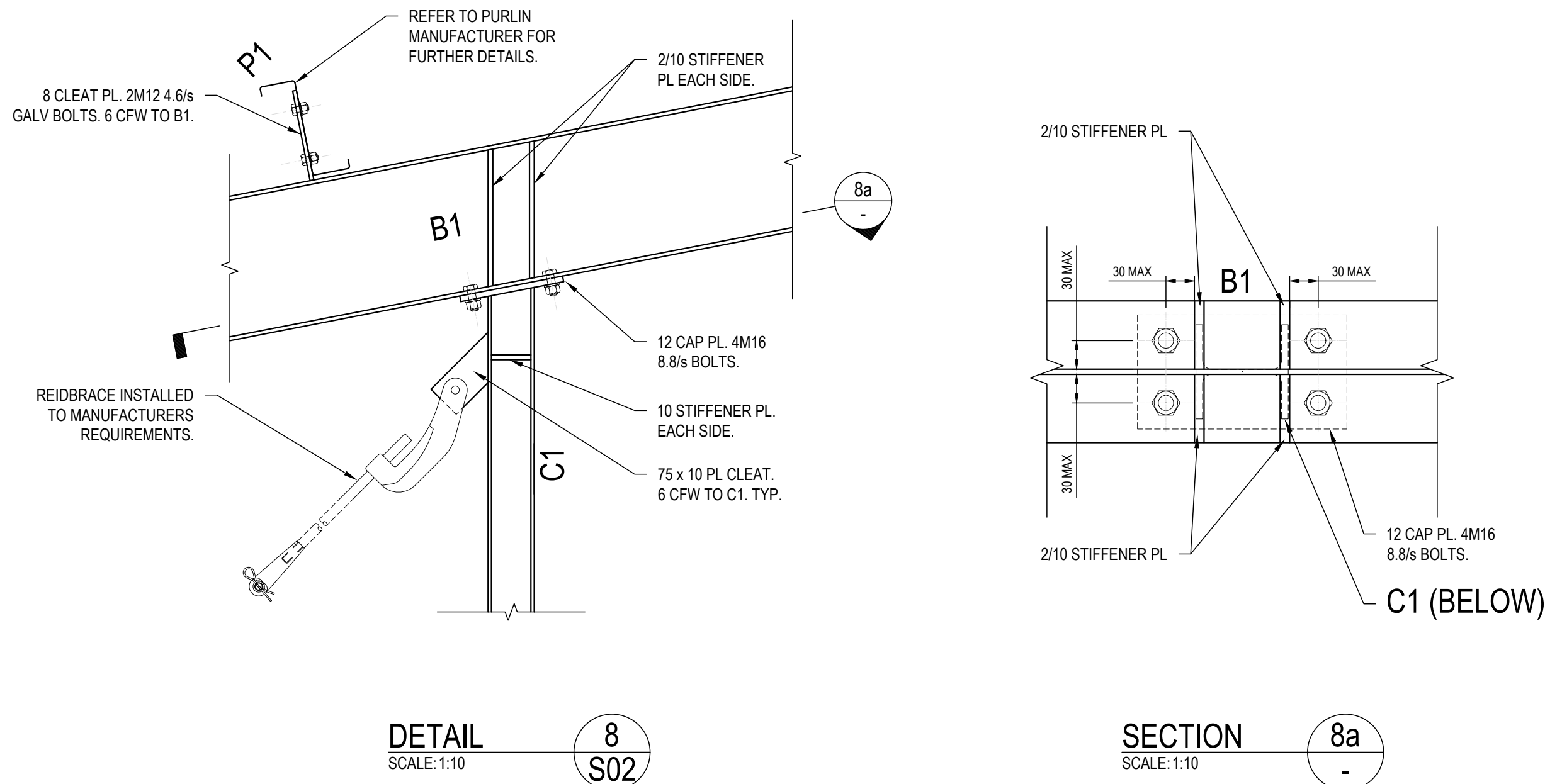
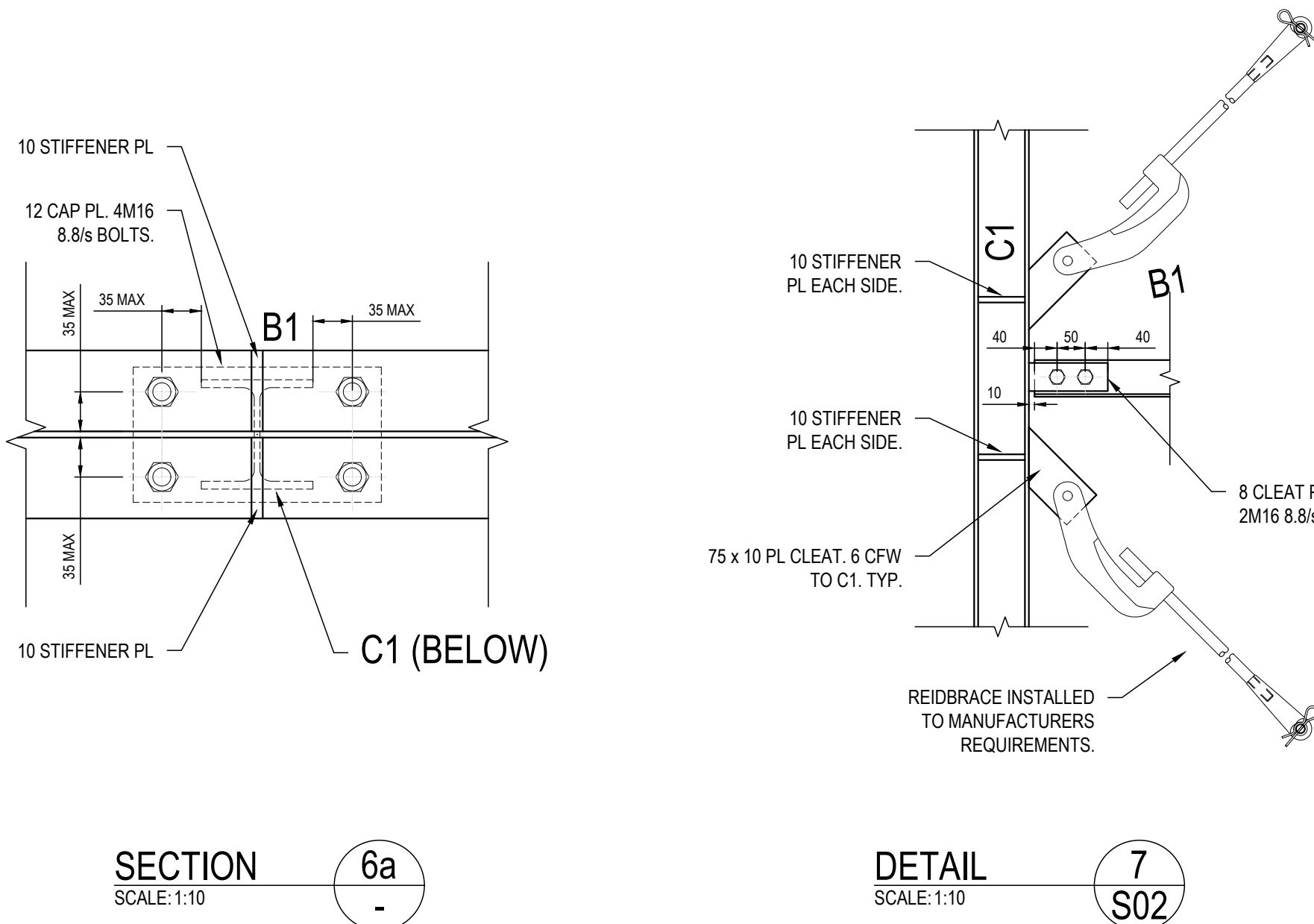
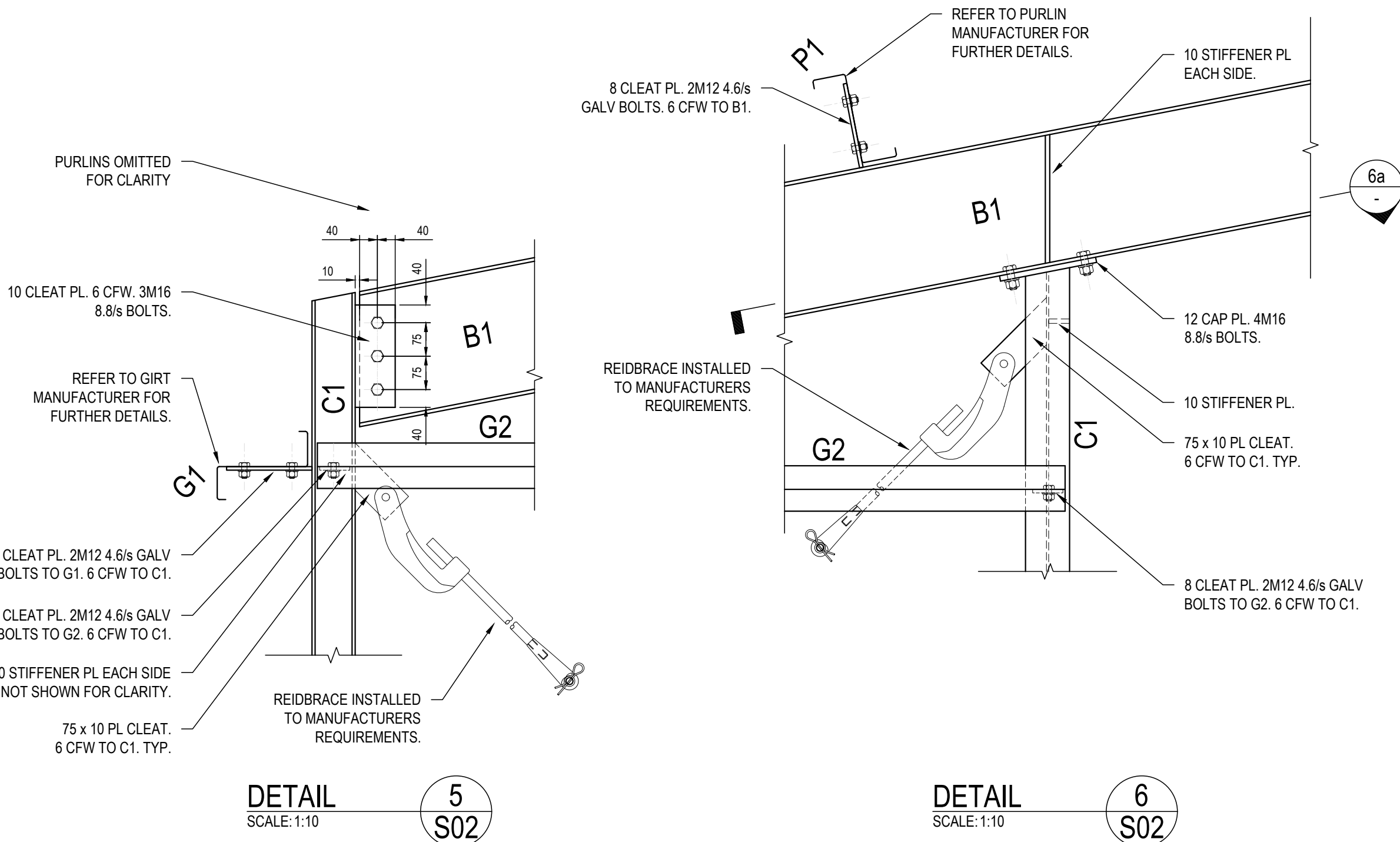
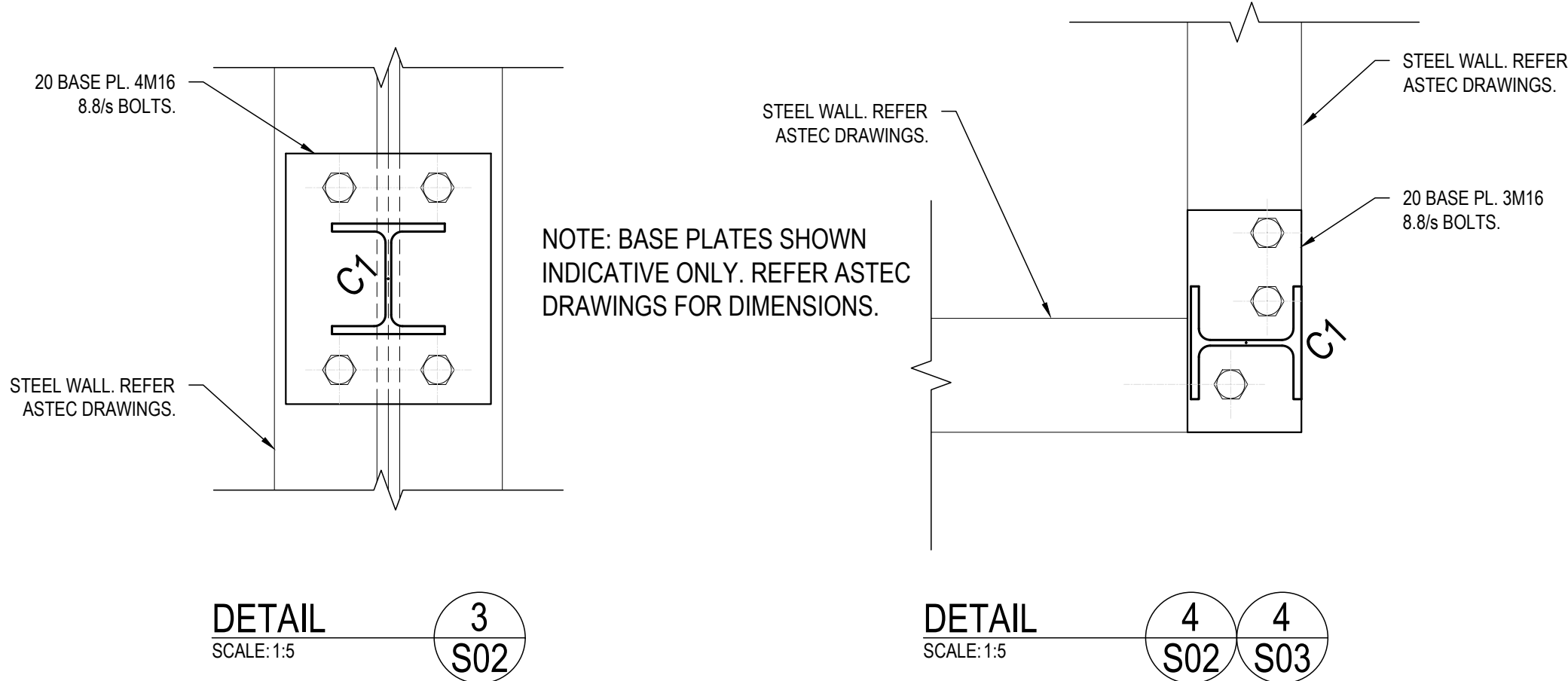
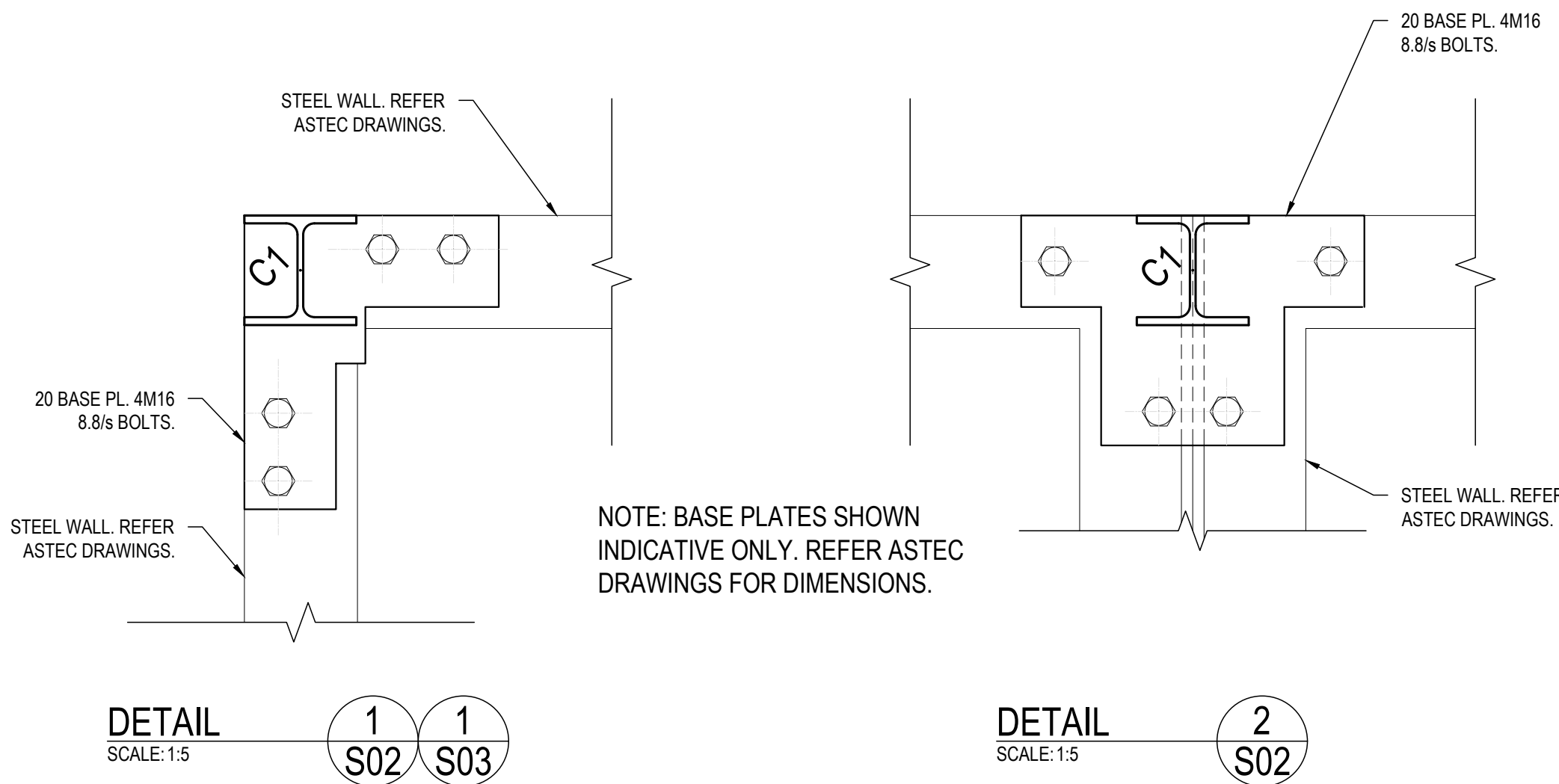
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G2	Z10012 @ 1200 CRS	
S1	55 x 5 EA	
BR1	12 Ø REIDBRACE	
BR2	20 Ø REIDBRACE	

NOTE: ALL WELDS E49XX SP



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PROJECT
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1 CROOKED BILLET DRIVE
BRIDGEWATER - FEEDER CANOPY

TITLE
STRUCTURAL
FRAMING DETAILS

Accepted RAJC (Discipline Head)	Date	30/09/2025
Accepted RAJC (Team Leader)	Date	30/09/2025
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AS SHOWN	LC	CRZ
	PLOT DATE	30/09/2025

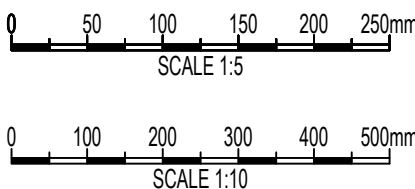
DO NOT SCALE. Use only figured dimensions. Locations of structures, fittings, services etc on this drawing are indicative only. CONTRACTOR to check Architects & other project drawings for co-ordination between structures, fabric, fixtures, fittings, services etc. CONTRACTOR to site check all dimensions and exact locations of all items. JMG accepts no responsibility for dimensional information scaled or digitally derived from this document.

PLOT DETAILS 240559CS-S-FEEDER CANOPY.DWG

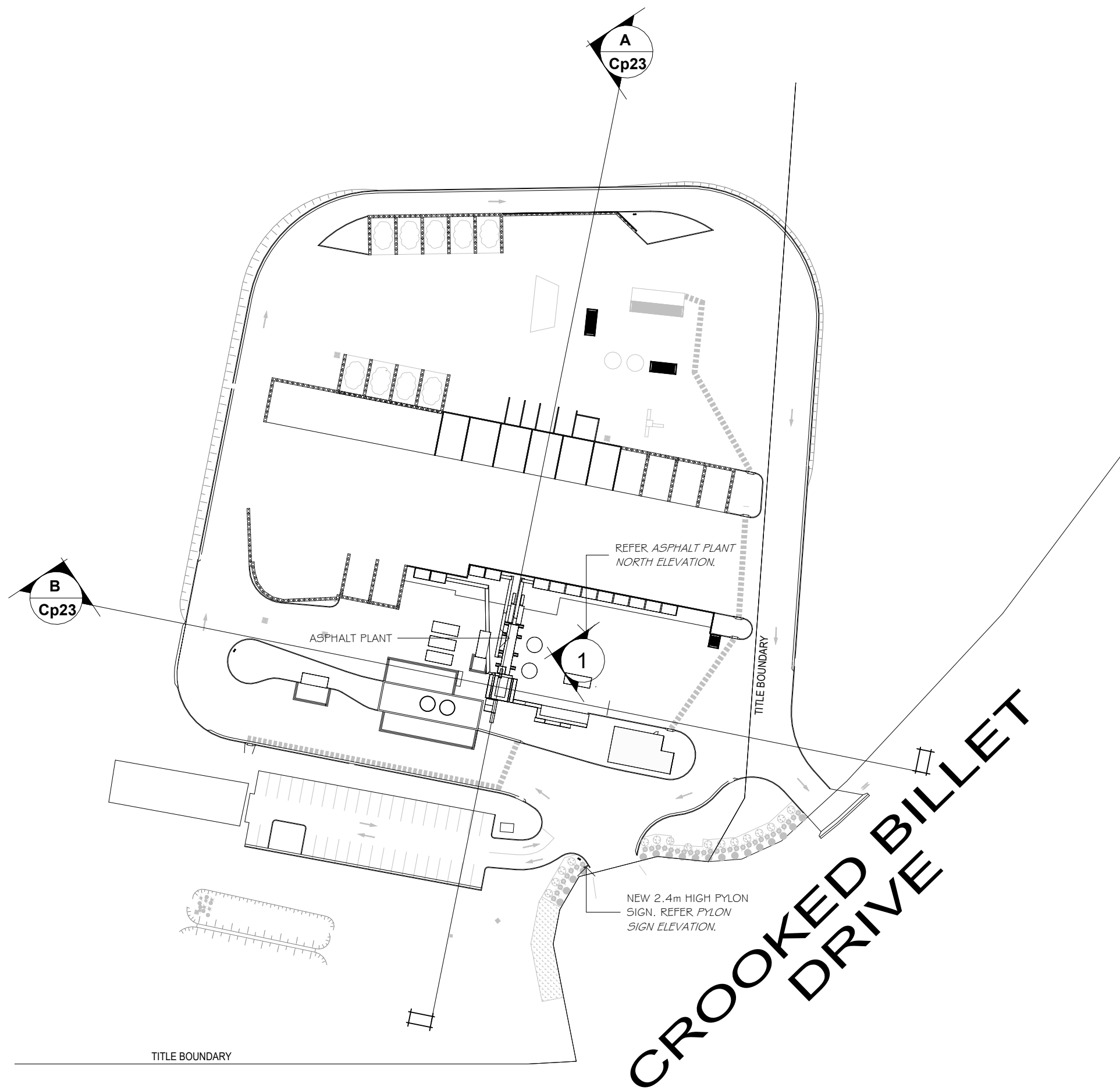
PROJECT NO. 240559CS

DWG NO.	REVISION
S04	P2

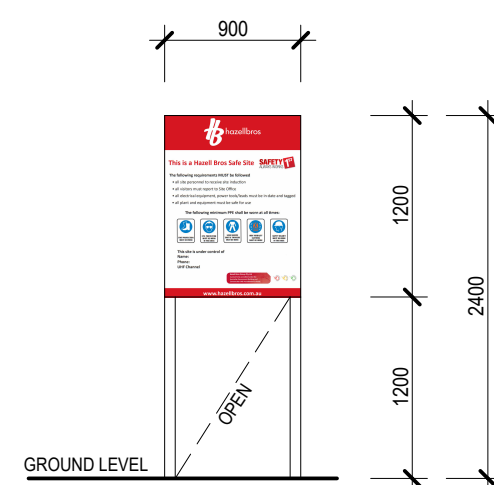
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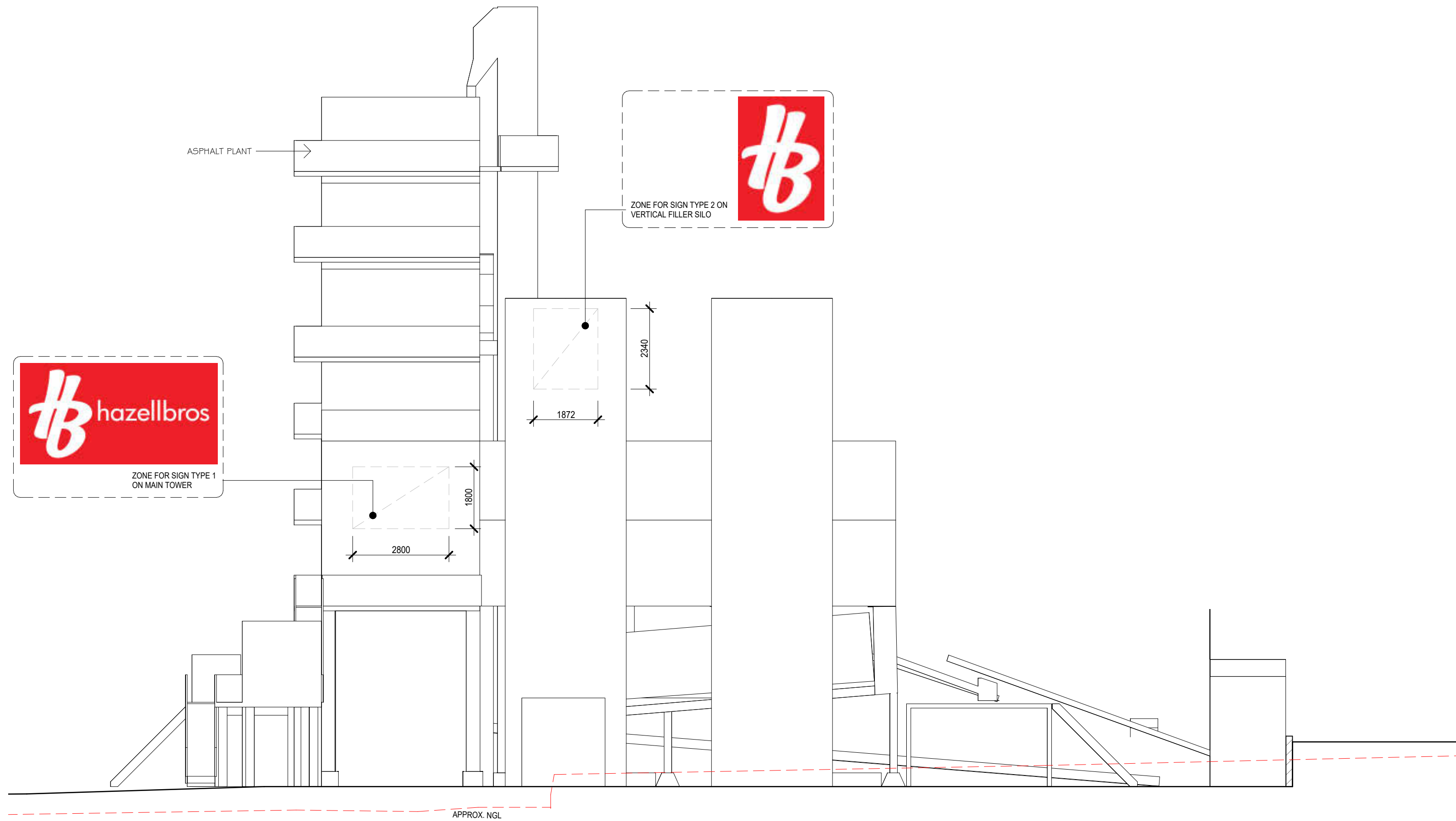
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NOT FOR CONSTRUCTION



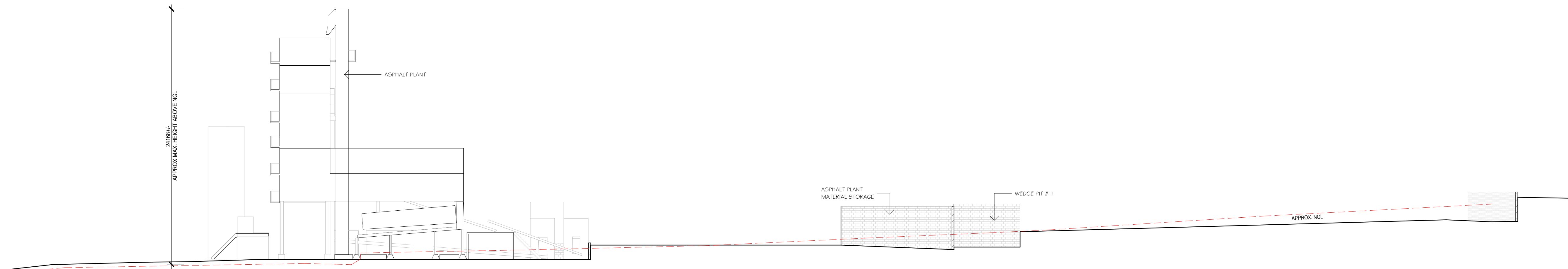
SITE PLAN - SECTION & SIGNAGE ELEVATION KEY
SCALE 1:1000



PYLON SIGN ELEVATION
SCALE 1:50

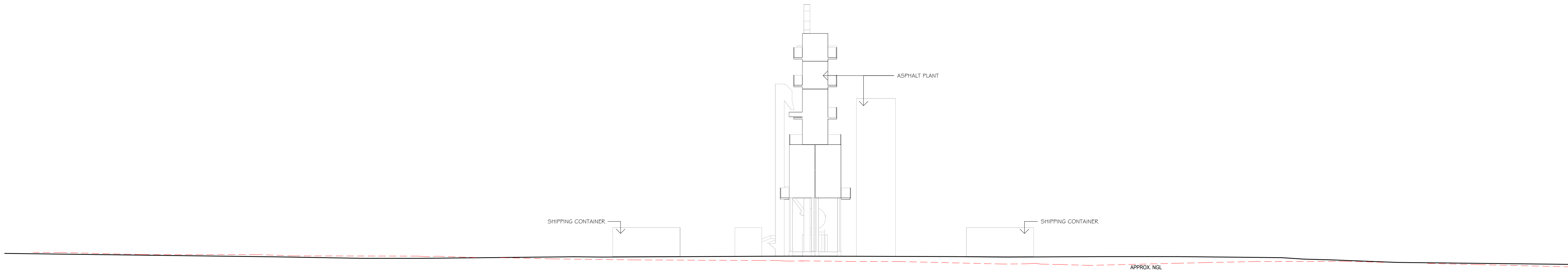


ASPHALT PLANT NORTH ELEVATION
SCALE 1:100



SECTION A
SCALE 1:200

ISSUE	DATE	ISSUED FOR
001	01.08.25	PLANNING APPROVAL
002	29.10.25	RESPONSE TO PLANNING RP1



SECTION B
SCALE 1:200

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PROJECT: ASPHALT BATCHING PLANT

AT: 1 / 13 CROOKED BILLET DRIVE
BRIDGEWATER

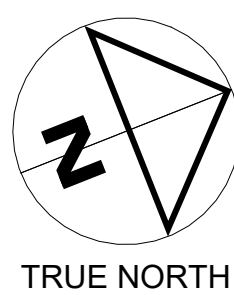
FOR: HAZELL BROS GROUP PTY LTD

DRAWING: SITE SECTIONS

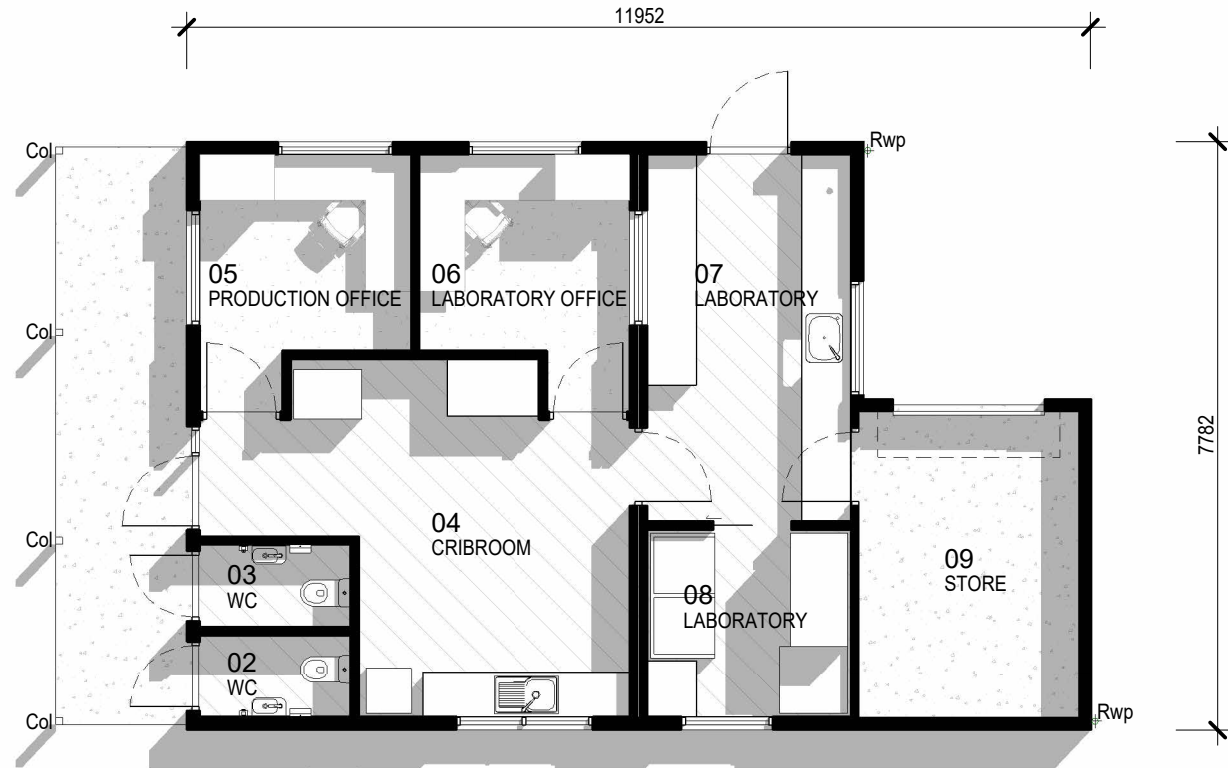
DESIGNED: CGB DRAWN: MDC CHECKED:

SCALE: As indicated AT A0

PROJECT No: 24.140 DRAWING No: Cp23 REV: 002

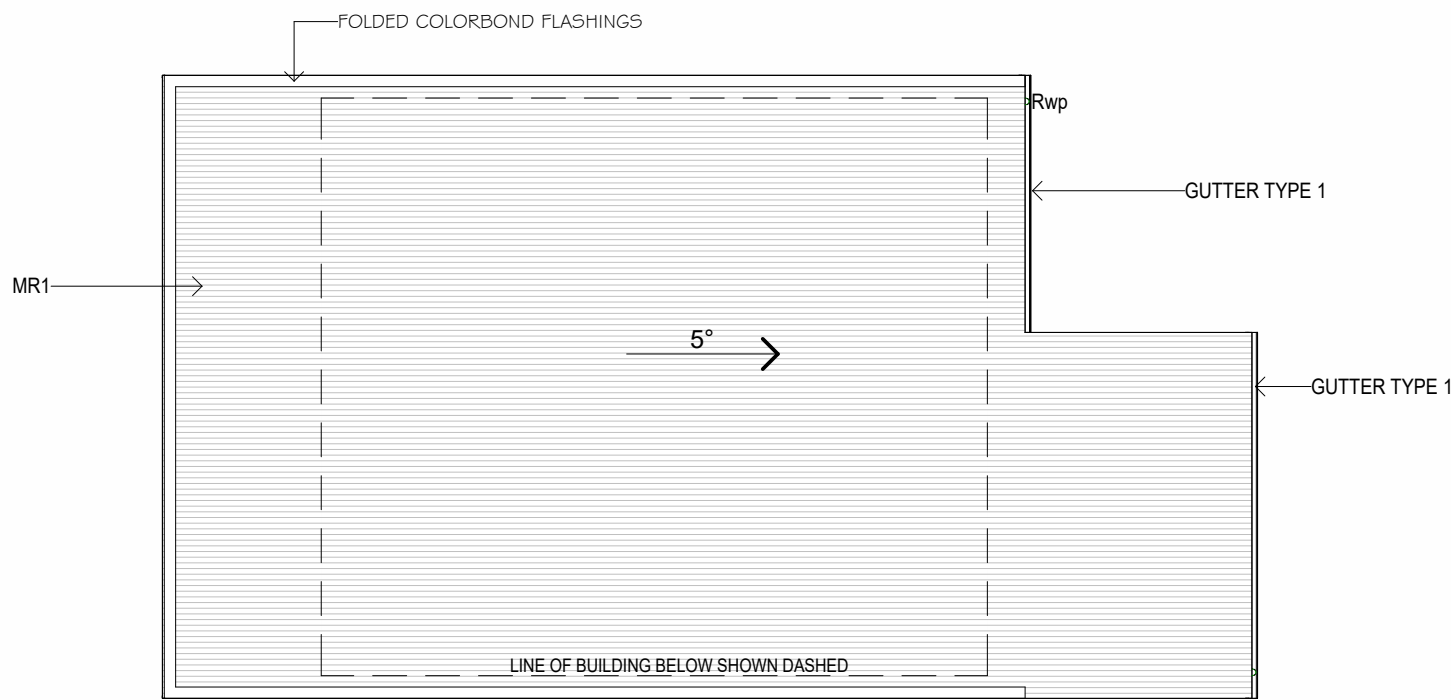


TRUE NORTH



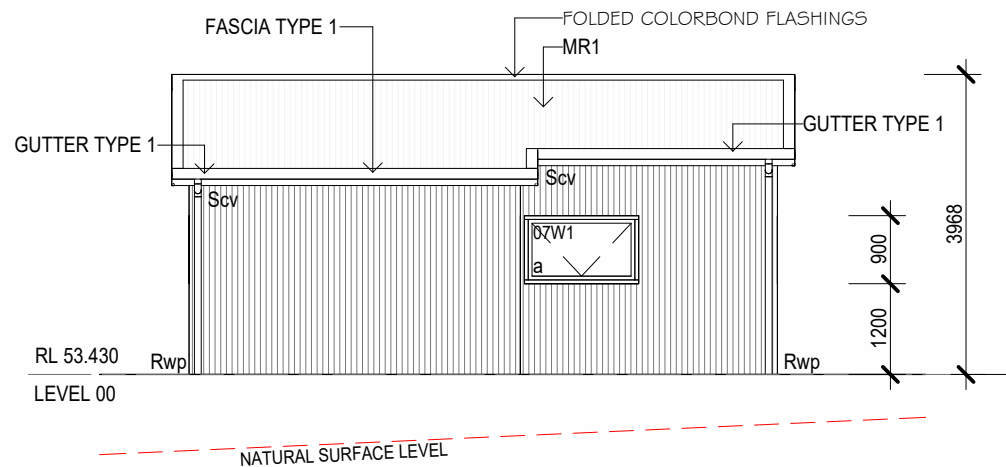
GROUND FLOOR PLAN

SCALE 1 : 100



ROOF PLAN

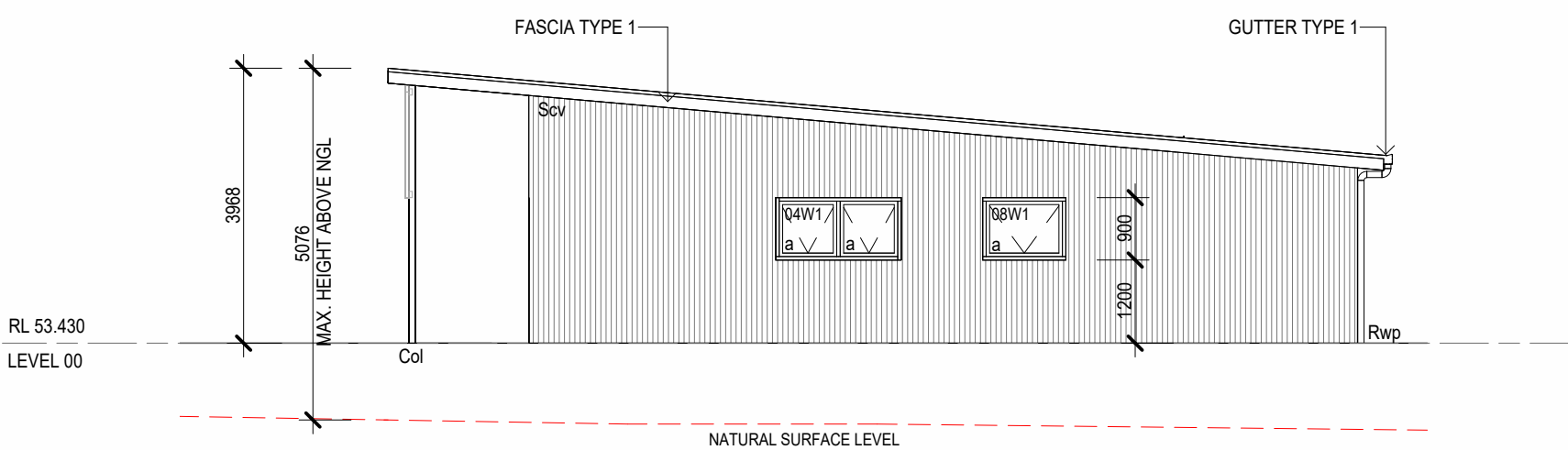
SCALE 1 : 100



NORTHERN ELEVATION

SCALE 1 : 100

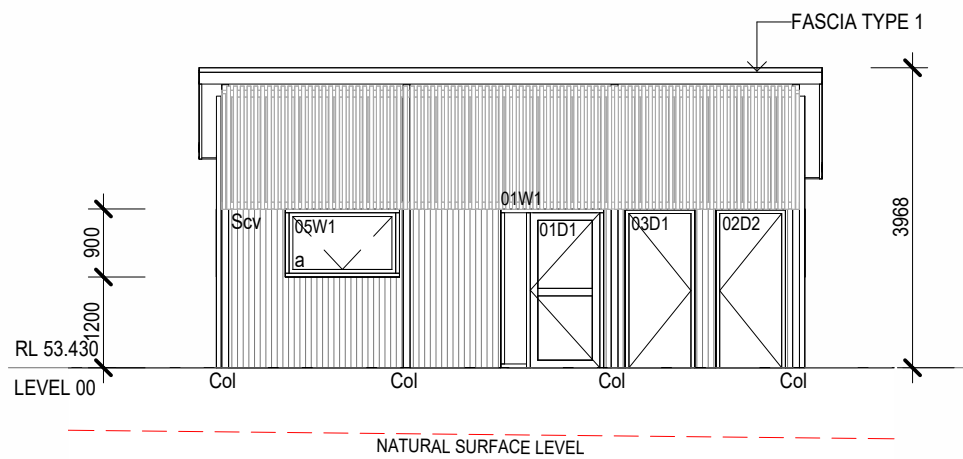
REFER C-SERIES SITE PLAN. ELEVATIONS BASED UPON TRUE NORTH



EASTERN ELEVATION

SCALE 1 : 100

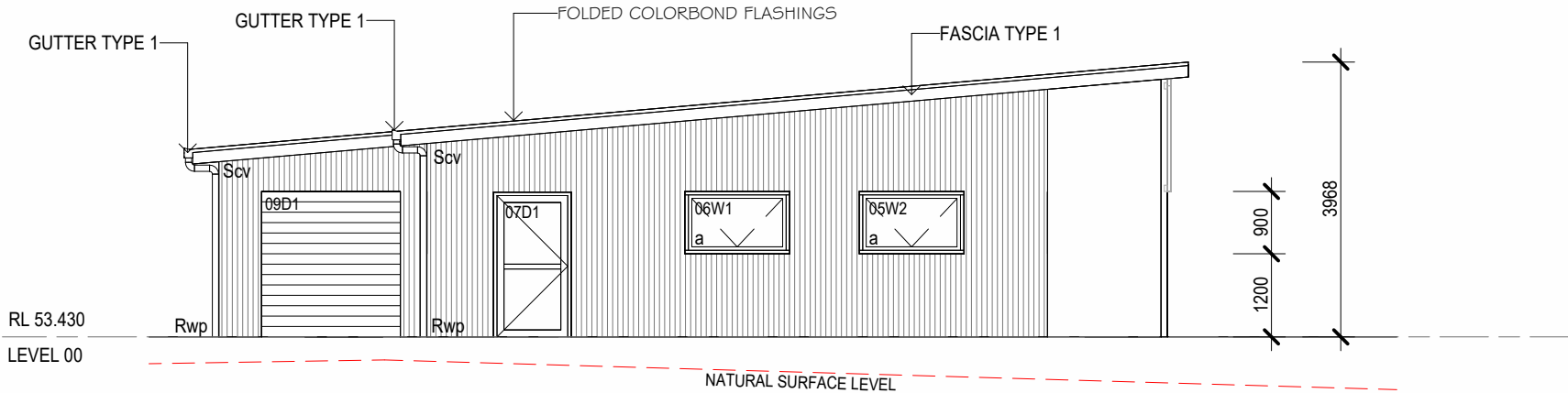
REFER C-SERIES SITE PLAN. ELEVATIONS BASED UPON TRUE NORTH



SOUTHERN ELEVATION

SCALE 1 : 100

REFER C-SERIES SITE PLAN. ELEVATIONS BASED UPON TRUE NORTH



WESTERN ELEVATION

SCALE 1 : 100

REFER C-SERIES SITE PLAN. ELEVATIONS BASED UPON TRUE NORTH

a
Col
Rwp
GUTTER TYPE 1
FASCIA TYPE 1
MR1
Scv

AWNING WINDOW SASH
COLUMN
90 DIA. uPVC RAINWATER PIPE
COLORBOND EAVES GUTTER
COLORBOND FASCIA
COLORBOND CUSTOM ORB PROFILE ROOF SHEETING
STEEL CLADDING, VERTICAL

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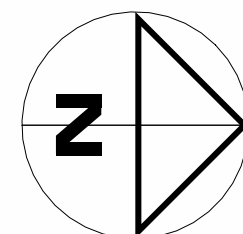
ISSUE	DATE	ISSUED FOR
001	01-08-25	ISSUED FOR PLANNING APPROVAL

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PROJECT: LABORATORY & OFFICES

AT: 1 CROOKED BILLET DRIVE
BRIDGEWATER, TASMANIA
FOR: HAZELL BROS.

DRAWING: FLOOR PLAN, ROOF PLAN &
ELEVATIONS



PROJECT NORTH

DESIGNED: DVG DRAWN: MDC CHECKED: -

SCALES: 1 : 100 AT A1

PROJECT No: 24.140 DRAWING No: Ap100 REV: 001

CONTROLLED DOCUMENT

ISSUE	DATE	ISSUED FOR	REV
01	27.09.24	CLIENT INFORMATION	
02	01.10.24	CLIENT REVISION	
03	05.10.25	REVISED SITE LAYOUT	
04	07.03.25	REVISIONS	
05	03.04.25	REVISION DETENTION STORAGE	
06	08.04.25	PIVON REPORT	
07	10.04.25	REVISIONS	
08	28.04.25	SITE BOUNDARY REVISED	
07	02.09.25	PIVON REPORT REVISIONS	

Dangerous Goods Manifest

1 Crooked Billet Drive, Bridgewater

Hazardous Goods

LOCATION	Name	Class	Storage Type	Capacity Litres	Bunding Containment
1	Bitumen	9	A/GROUND	4x 55,000 Litres	Concrete Containment Bund
2	Bitumen	9	A/GROUND	2x 25,000 Litres	Self Bunded Container Tank
3	Diesel	C1	A/GROUND	30,000	Self Bunded Container Tank
4	Turpentine	3Y	4 x 15 litre drums	60	DG Self Bunded Storage Container
	Shellite	3Y	2 x 15 litre drums	30	DG Self Bunded Storage Container
5	Acetylene	2.1	1 x G- Cylinder		Gas Cage
	Oxygen	2	2 x G- Cylinder		Gas Cage
	Argoshield Light	2.2	1 x E- Cylinder		Gas Cage

Non Hazardous

LOCATION	Name	Class	Storage Type	Capacity Litres	Bunding Containment
6	Recosol 185	N/A	IBC 1,000ltr Tote	2,000	IBC Bund
7	CRS Emulsion	N/A	A/GROUND	30,000	Self Bunded Conatiner Tank
8	Slipway Heavy Duty	N/A	IBC 1,000ltr Tote	2,000	IBC Bund
9	Hydrated Lime	N/A	Silo	60,000	A/Ground Silo

CONCRETE PLANT MATERIAL STORAGE.

CONCRETE PLANT MATERIAL STORAGE.

RAP MATERIAL STOCKPILE.

RAP RECYCLING PLANT.

ASPHALT PLANT.

BITUMEN TANK FARM.

EXISTING OFFICE.

EXISTING CARPARK.

EXISTING 150m² BIO RETENTION BASIN.

PROPOSED 440m³ STORMWATER DETENTION POND.

CONCRETE ADDITIVE CONTAINER.

CONCRETE PLANT.

ASPHALT PLANT MATERIAL STORAGE.

AGGREGATE FEEDERS.

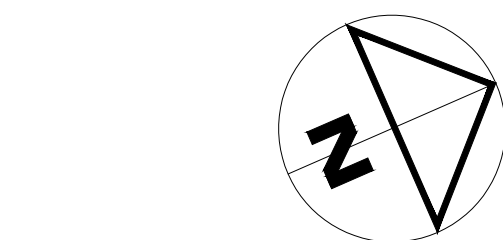
CONTROL ROOM.

SEP- ATLAN STORMSACK.

PROPOSED OFFICE AND LAB.

SEP- ATLAN STORMSACK.

PROPOSED SUBSTATION.



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PROJECT: ASPHALT BATCHING PLANT
AT: 1 / 13 CROOKED BILLET DRIVE BRIDGEWATER
FOR: HAZELL BROS GROUP PTY LTD

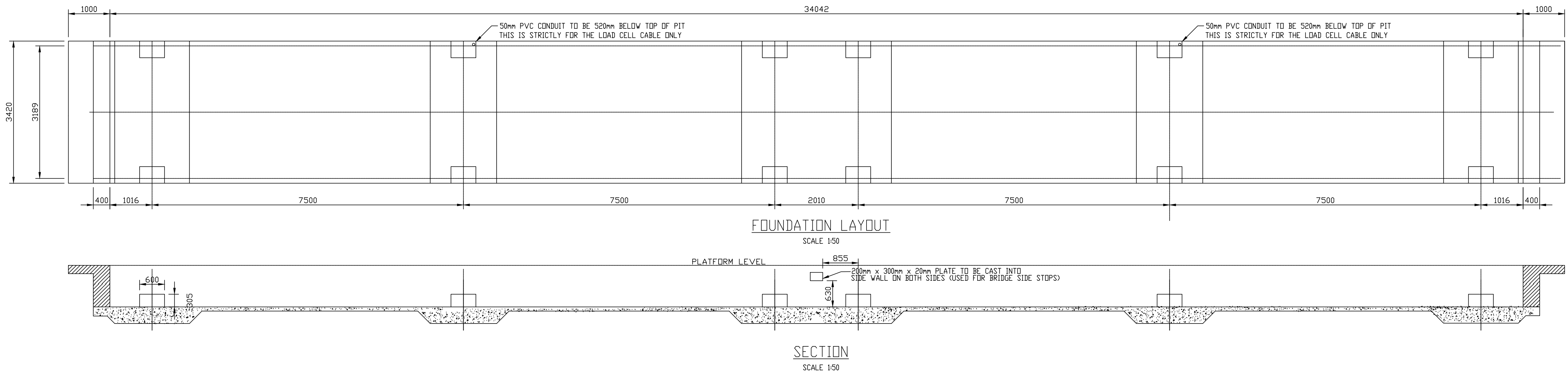
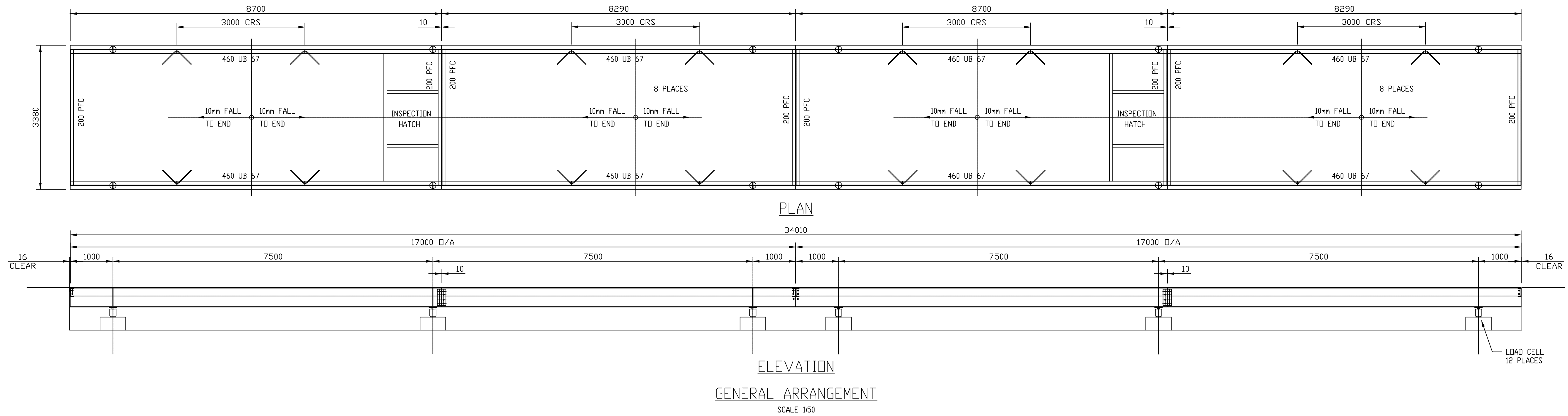
DRAWING: OVERALL SITE PLAN
DANGEROUS GOODS PLAN

DESIGNED: PAS CHECKED:

SCALES: 1:500 AT AS SIZE DRAWING SHEET

PROJECT No: 24.140 DRAWING No: DG REV: D

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PRELIMINARY
Fri, 29 Nov 2024 - 10:43am

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BEFORE COMMENCING ANY WORK OR
MAKING ANY WORKSHOP DRAWINGS
NOTIFY ENGINEER IMMEDIATELY IF ANY
DISCREPANCIES

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event	description	date	initial

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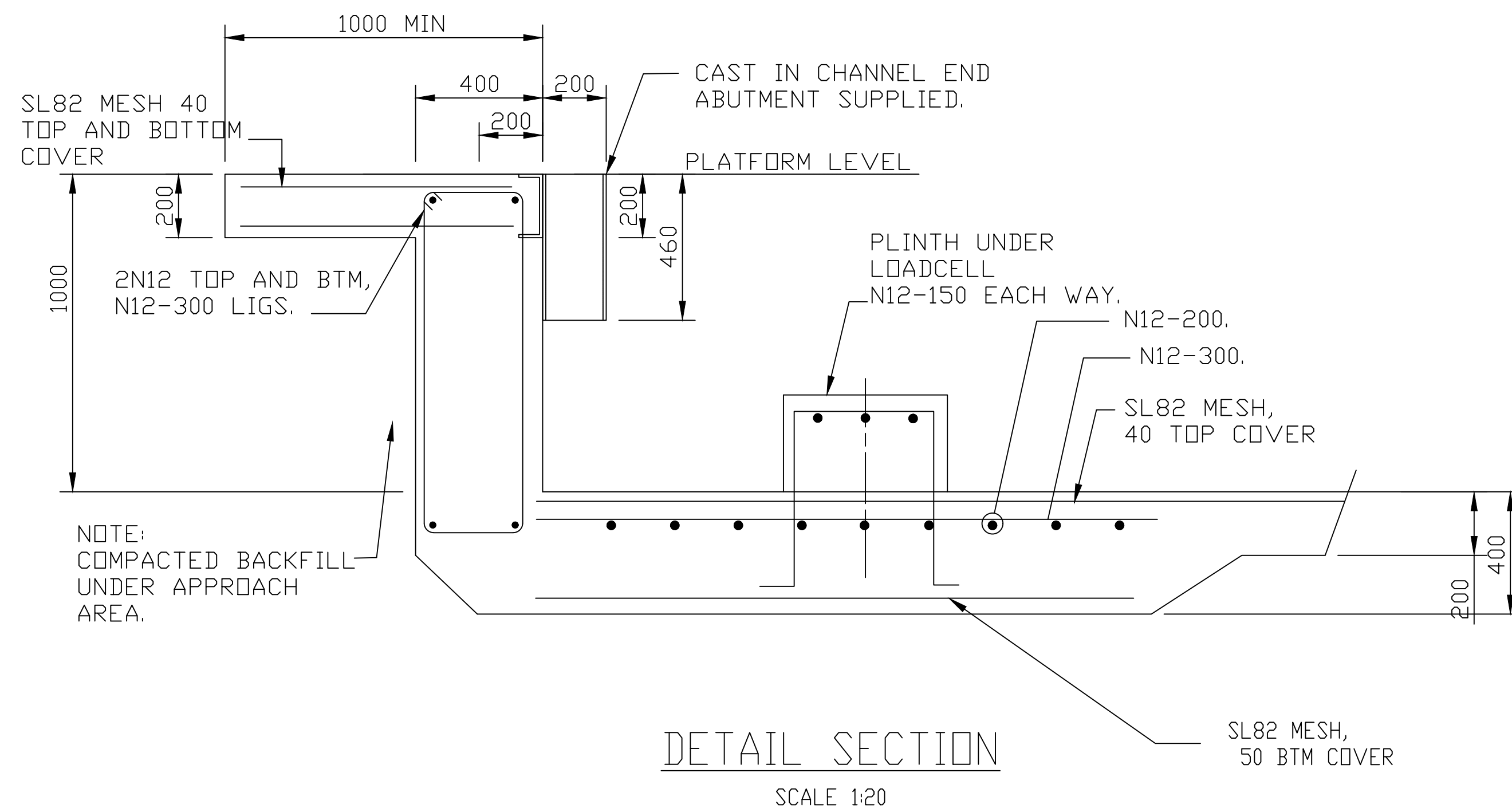
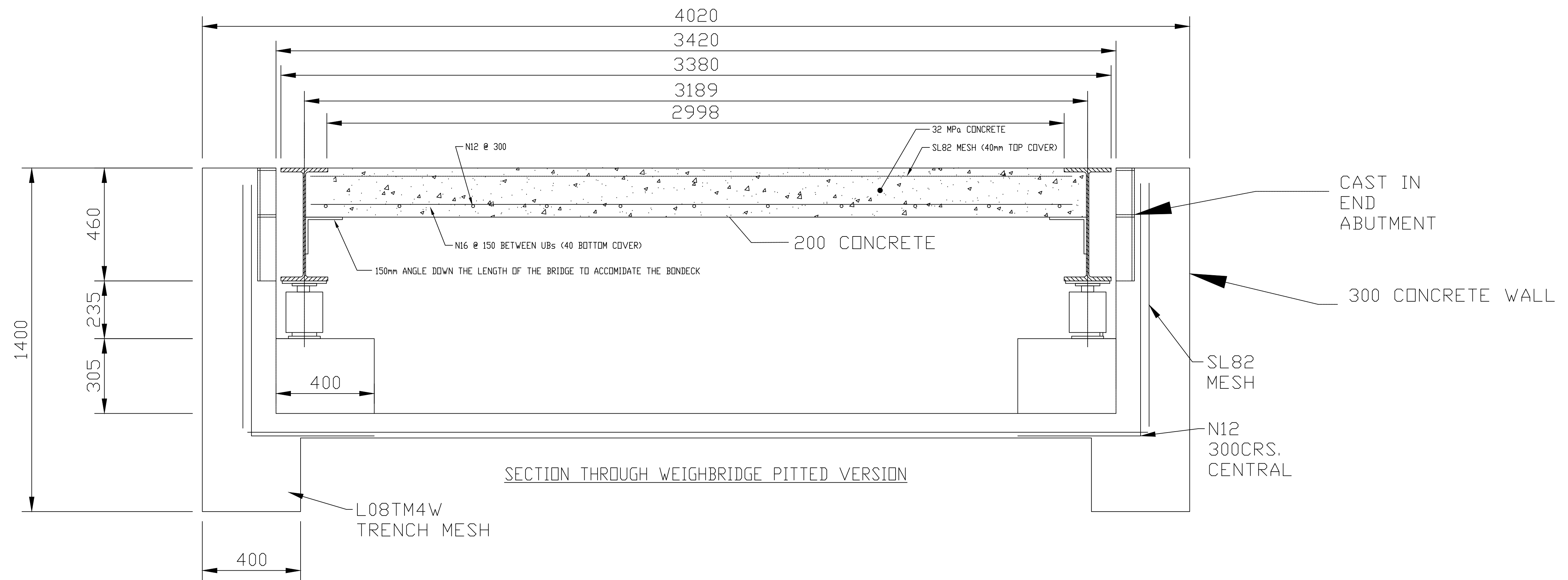
BENNETT SCALES
client (03) 6228 5872

34M PITTED
WEIGHBRIDGE
project

ARRANGEMENT
& FOUNDATION
title

date 28.11.24	project number	issue
scales as shown	1/2	B
drawn DS		
checked DS		

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CONCRETE NOTES:

- C1 ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, CURRENT EDITION WITH AMENDMENTS.
- C2 ALL CONCRETE SHALL BE PROPERLY VIBRATED USING HIGH FREQUENCY VIBRATORS TO ENSURE PROPER COMPACTION.
- C3 CONCRETE QUALITY:
- CONCRETE SHALL HAVE A SLUMP OF 80mm
- MAXIMUM AGGREGATE SIZE OF 20mm
- CONCRETE STRENGTH TO BE AS FOLLOWS:
*FOOTINGS - 32mpa
*SLABS - 32mpa
- C4 MINIMUM COVER (mm) TO ALL REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL BE AS FOLLOWS:
FOOTINGS - 50mm
SLABS - 30mm
- C5 CURING OF ALL CONCRETE SURFACES SHALL COMMENCE IMMEDIATELY AFTER SURFACES ARE FINISHED AS SPECIFIED & SHALL CONTINUE FOR A MINIMUM OF 7 DAYS.
- C6 ALL REINFORCEMENT SHALL BE MAINTAINED IN ITS CORRECT POSITION DURING CONCRETING WITH APPROVED PLASTIC TIPPED STEEL OR PLASTIC BAR CHAIRS.
- C7 CDDUITS, PIPES & THE LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER UNLESS OTHERWISE NOTED.
- C8 WELDING OR HEATING OF REINFORCEMENT IS NOT PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.

GENERAL NOTES

- 1 MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 100kPa REQUIRED.
- 2 SLABS TO PROVIDE A MINIMUM OF 20mm FALL

SITE NOTES

- 1 ALL CIVIL DESIGN & SITE WORKS MUST BE APPROVED BY CLIENT'S QUALIFIED ENGINEER.
- 2 ALL OTHER WORKS, INCLUDING GUARDS RAILS, STEPS, CONTROL BOOTH, SIGNAGE ETC & ALSO INCLUDING WORKS TO MEET THE OCCUPATIONAL HEALTH & SAFETY STANDARDS, TO BE THE RESPONSIBILITY OF THE CLIENT.

PRELIMINARY

Fri, 29 Nov 2024 - 10:43am

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NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES

event	description	date	initial

event	description	date	initial

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34M PITTED WEIGHBRIDGE

SECTION & DETAILS

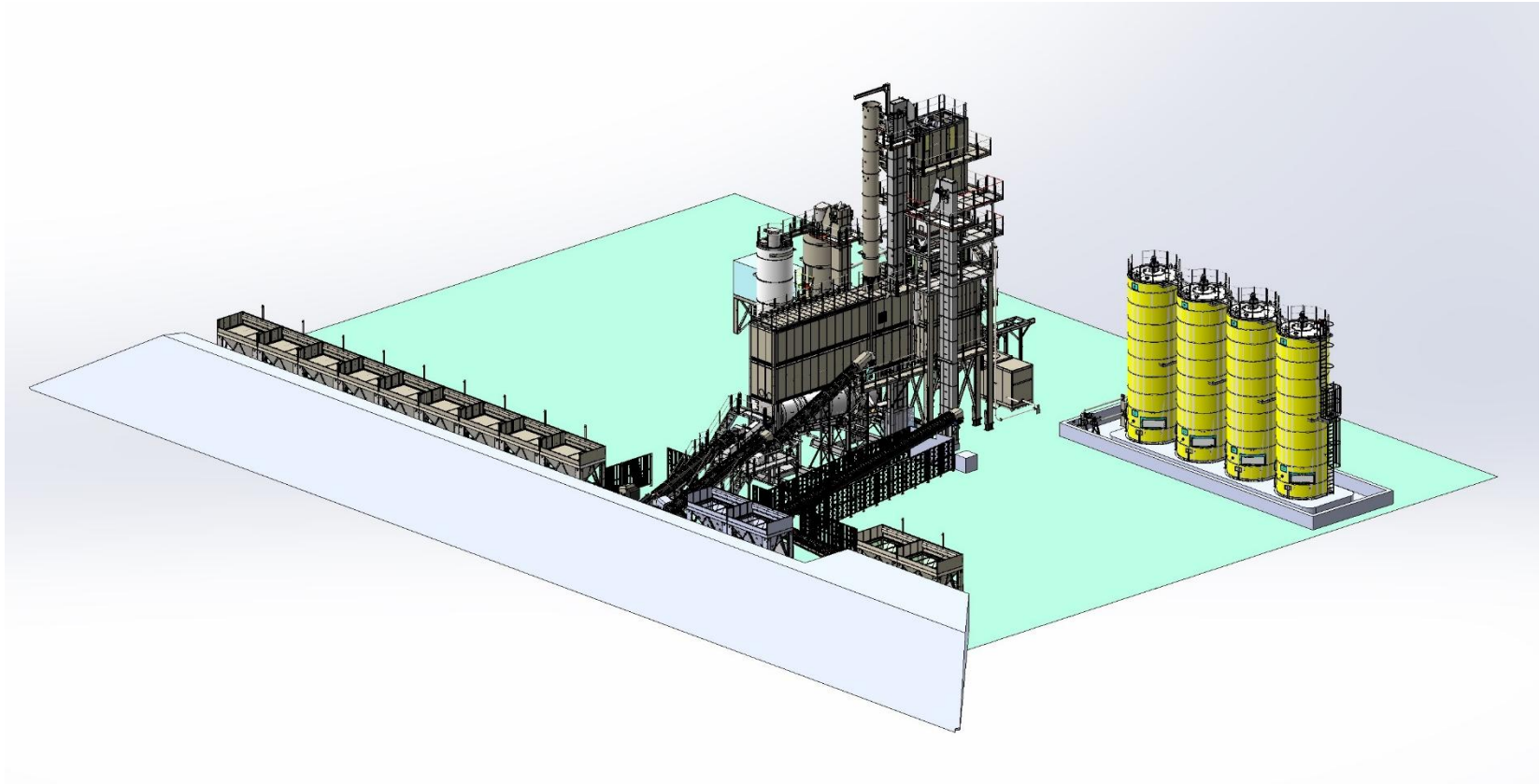
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scales as shown		drawing number	2/2
drawn DS		checked DS	B



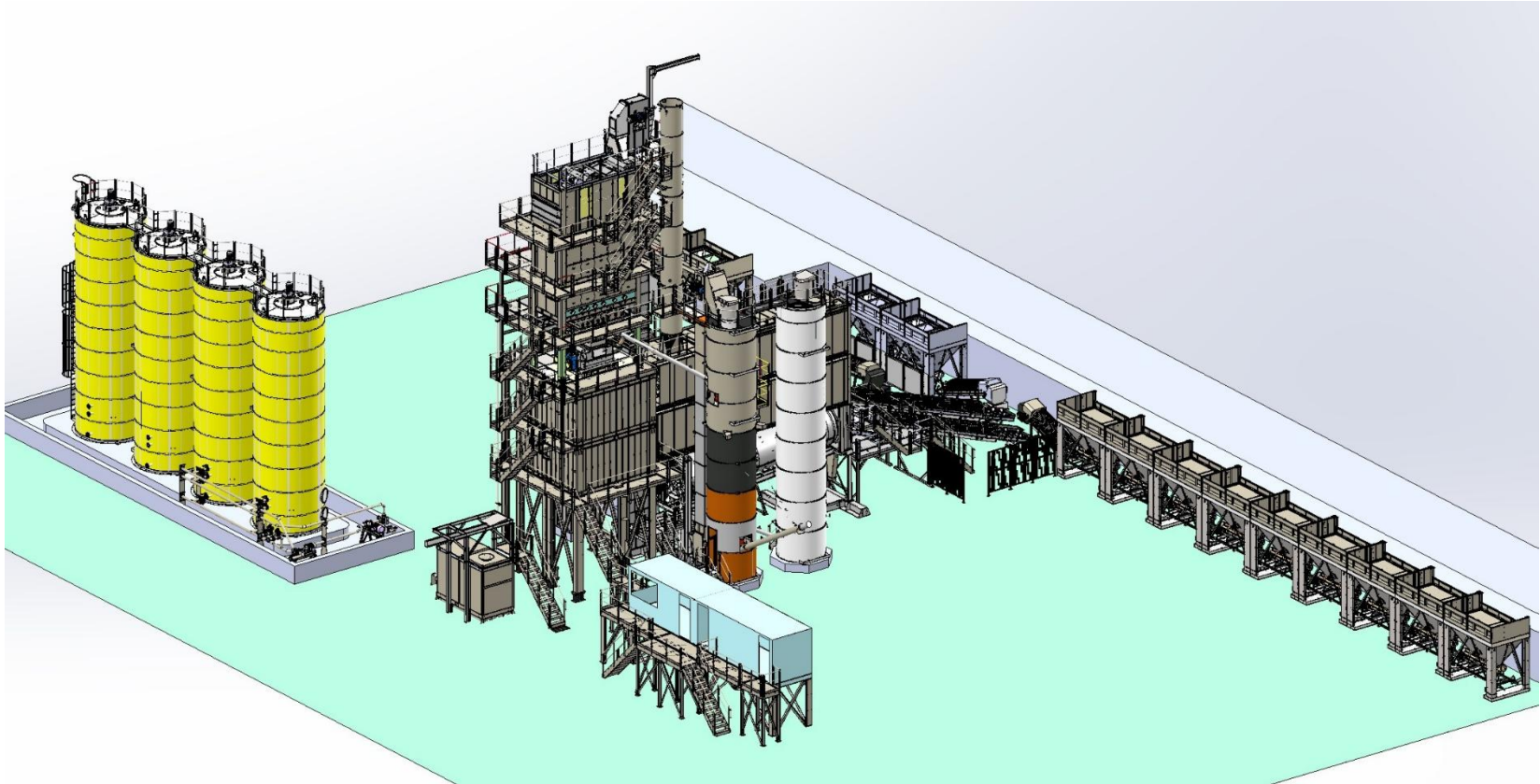
Astec India

**3D Plant Images of BG 2500 Hazell
Bros Australia (24005-1)**

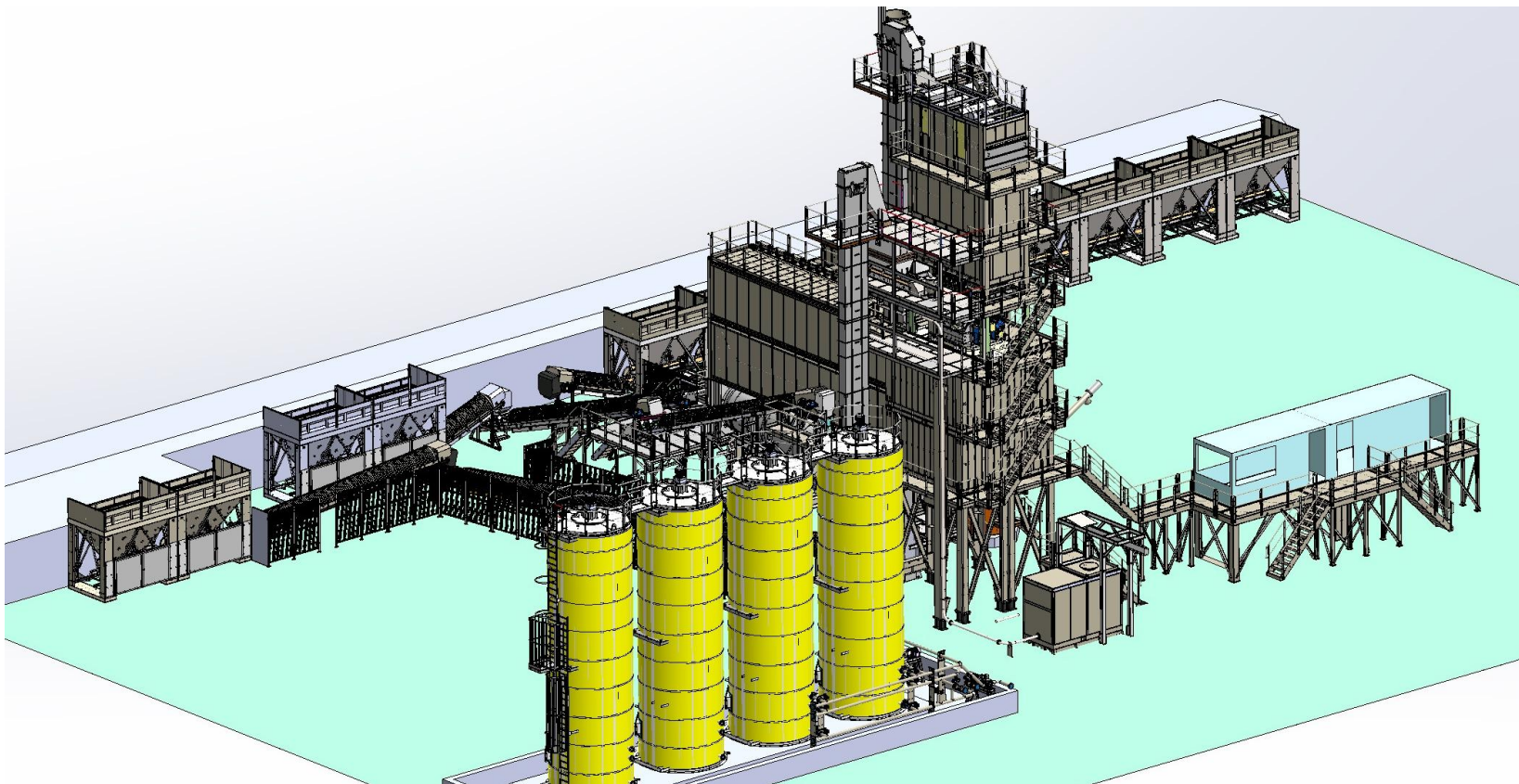
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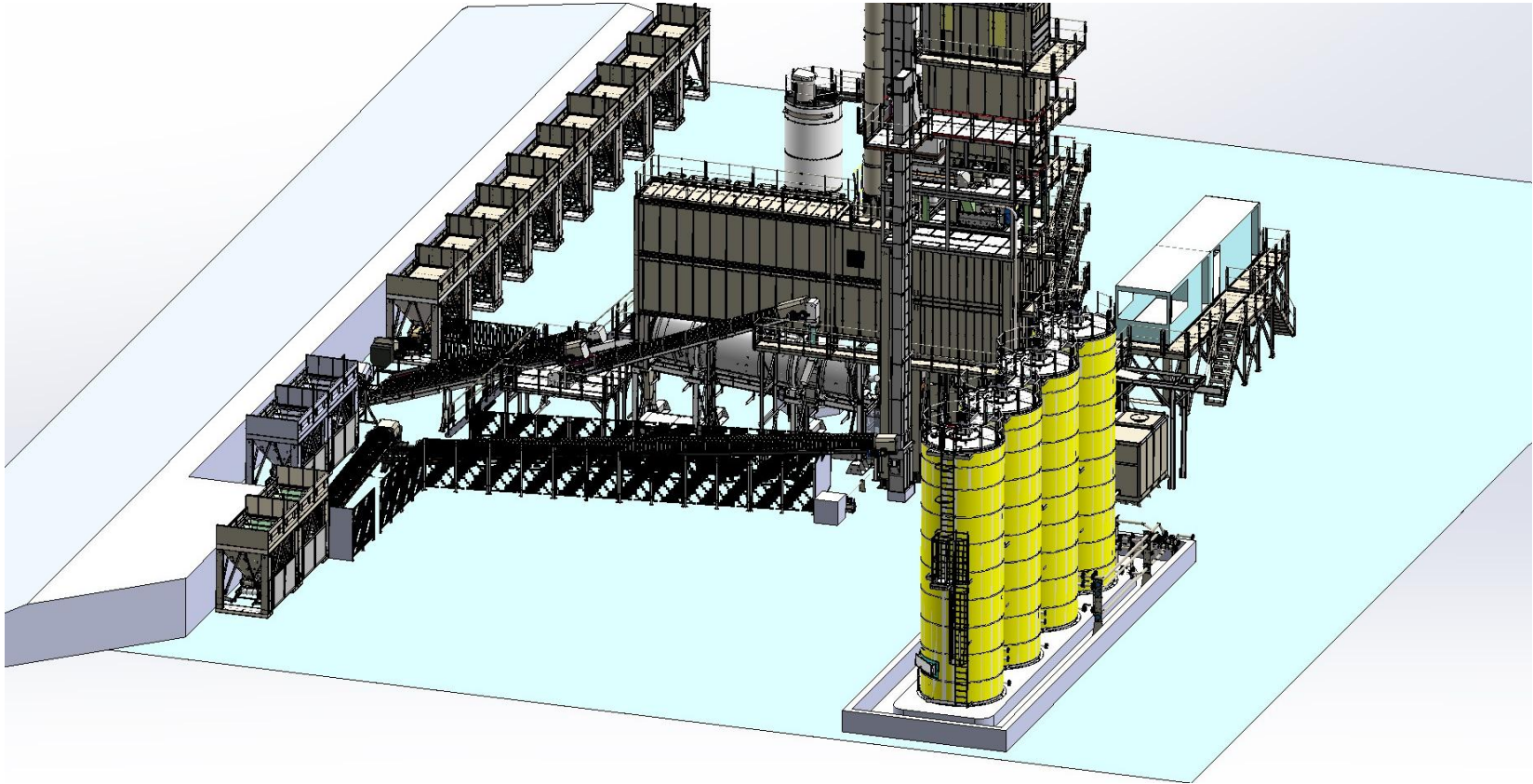
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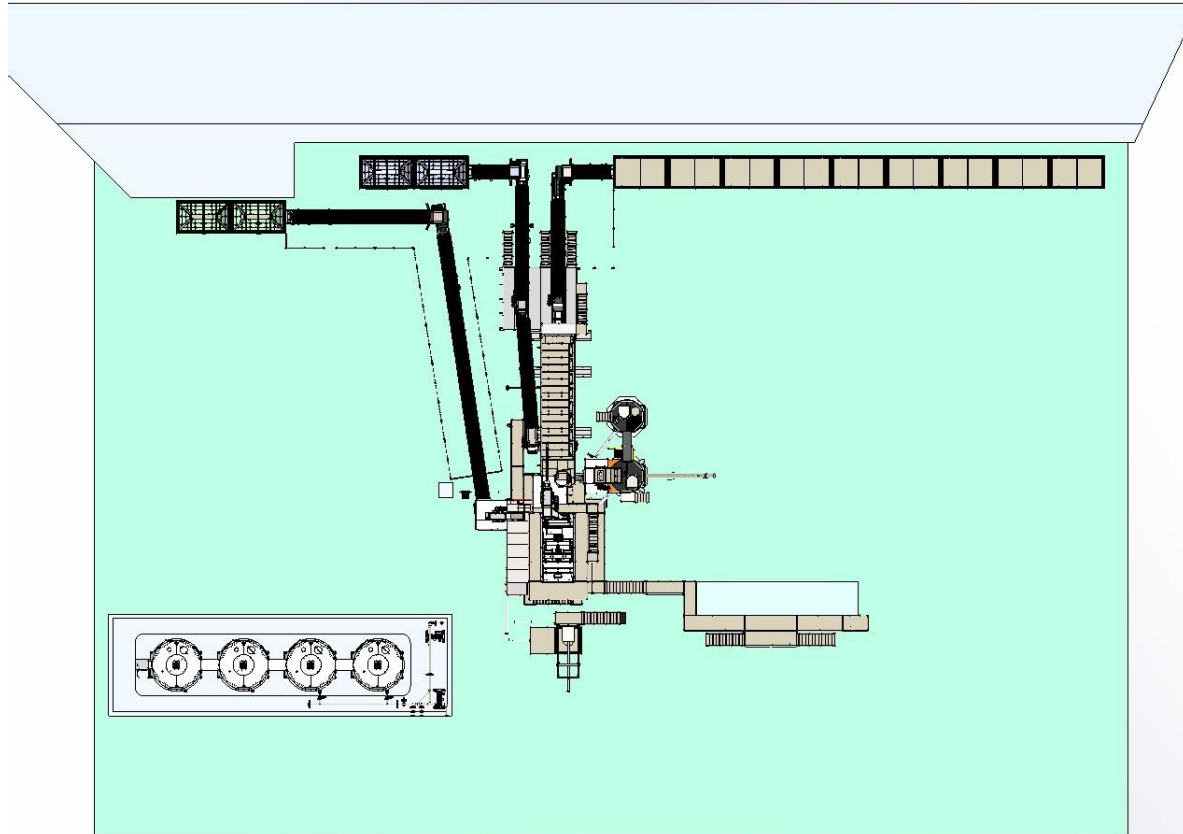
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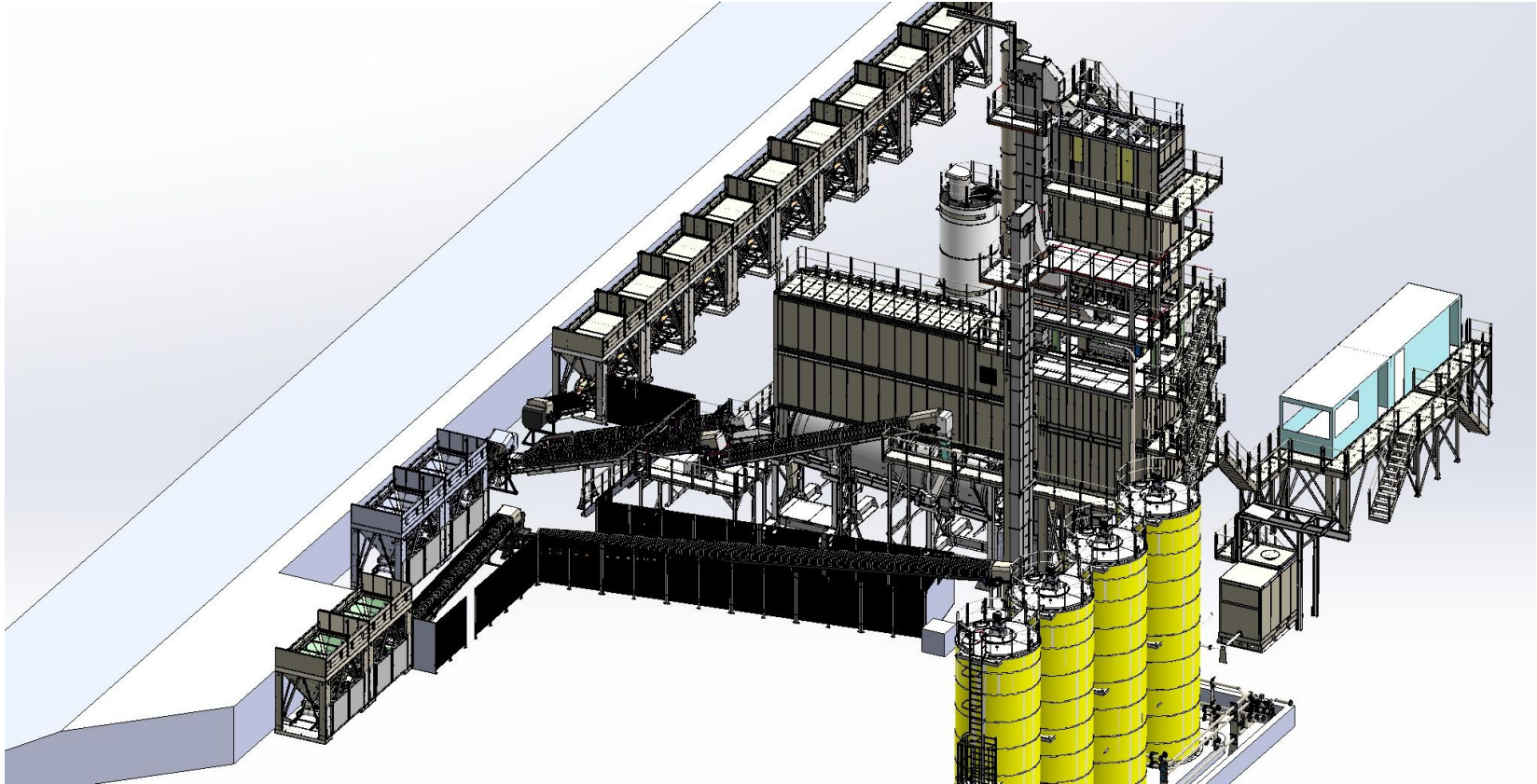
3D Plant Images of BG 2500 Hazell Bros Australia (24005-1)



3D Plant Images of BG 2500 Hazell Bros Australia (24005-1)



3D Plant Images of BG 2500 Hazell Bros Australia (24005-1)





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BUILT TO **CONNECT**