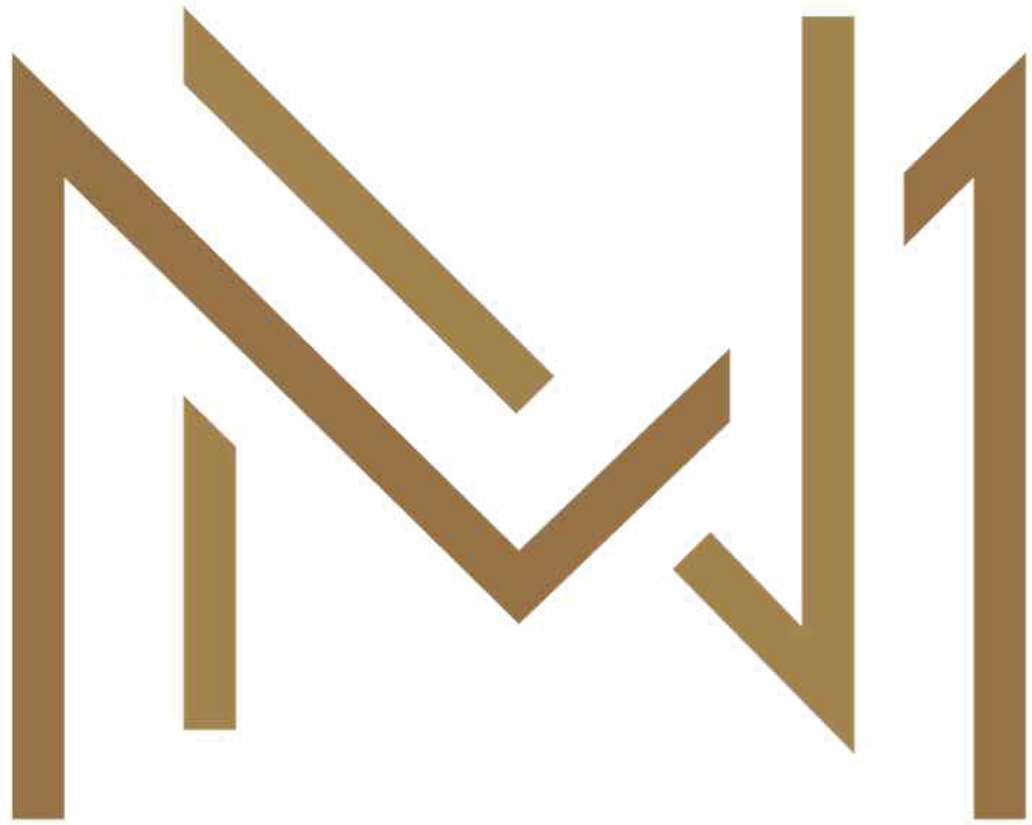




N R M E N G I N E E R I N G

PROJECT
PROPOSED BILLBOARD SIGN

ADDRESS
MITCHELL HIGHWAY
ORANGE

CLIENT
BAMBOOZEL PROJECTS

PROJECT No.
2161

 NRM ENGINEERING	NRM ENGINEERING AND DEVELOPMENTS PTY LTD		<table><tr><th>ISSUE</th><th>DATE</th><th>DESCRIPTION</th><th>DRAWN</th><th>ENG</th><th>CHECK</th></tr><tr><td>A</td><td>11/07/2025</td><td>ISSUE FOR FINAL COORDINATION</td><td>C.E.</td><td>N.M.</td><td>N.M.</td></tr></table>			ISSUE	DATE	DESCRIPTION	DRAWN	ENG	CHECK	A	11/07/2025	ISSUE FOR FINAL COORDINATION	C.E.	N.M.	N.M.	BUILDER	ARCHITECT	PROJECT MITCHELL HIGHWAY ORANGE	<table><tr><th colspan="4">DRAWING STATUS ISSUE FOR FINAL COORDINATION</th></tr><tr><th colspan="4">DRAWING TITLE COVER SHEET</th></tr><tr><th>SCALE @ A1</th><th>DATE</th><th>DRAWN</th><th>CHECKED</th></tr><tr><td>N/A</td><td>11/07/2025</td><td>C.E.</td><td>N.M.</td></tr></table>				DRAWING STATUS ISSUE FOR FINAL COORDINATION				DRAWING TITLE COVER SHEET				SCALE @ A1	DATE	DRAWN	CHECKED	N/A	11/07/2025	C.E.	N.M.
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ACN: 662 241 885 NRAMSEN MOSHI 0415 766 044 rmoshi@nrmengineering.com.au		APPROVED BY NRAMSEN MOSHI MANAGING DIRECTOR B.E CIVIL DIP ENG PRAC MIEAust CPEng NER APEC IntPE(Aus)			<table><tr><th>CLIENT</th><th>JOB NUMBER</th><th>DRAWING</th><th>REVISION</th></tr><tr><td>BAMBOOZEL PROJECTS</td><td>2161</td><td>S-000</td><td>A</td></tr></table>	CLIENT	JOB NUMBER	DRAWING	REVISION	BAMBOOZEL PROJECTS	2161	S-000	A																											
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GENERAL

- G1. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT S.A.A. CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.
- G2. SETTING-OUT DIMENSIONS AND SIZES OF STRUCTURAL MEMBERS NOT TO BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. ANY SETTING-OUT DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS TO BE CHECKED BY THE CONTRACTOR BEFORE CONSTRUCTION COMMENCES. REFER ANY DISCREPANCY TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
- G3. DURING CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STRUCTURE IS MAINTAINED IN A SAFE AND STABLE CONDITION AND NO PART IS OVERSTRESSED. TEMPORARY BRACING TO BE PROVIDED BY THE CONTRACTOR AS REQUIRED TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- G4. UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- G5. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT S.A.A. CODES AND BUILDING CODE OF AUSTRALIA FOR THE FOLLOWING LOADINGS:-

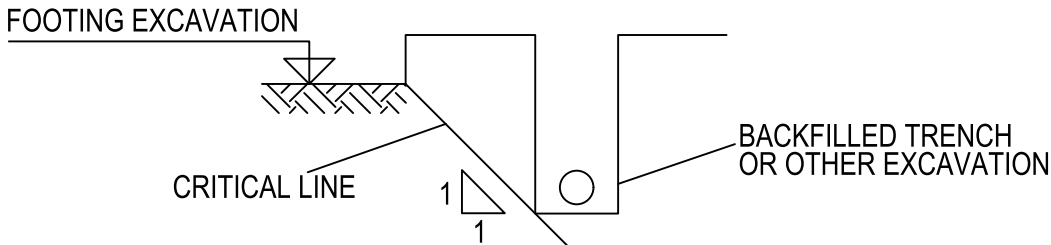
STRUCTURAL ELEMENT	LOAD (kPa)
NON TRAFFICABLE ROOF	0.25 LIVE LOAD
RESIDENTIAL FLOORS	2.0 LIVE LOAD
RESIDENTIAL FLOOR	0.5 SID LOAD

LIVE LOAD REDUCTIONS IN ACCORDANCE WITH AS 1170.1 CLAUSE 3.4.2 HAVE BEEN TAKEN WHERE APPLICABLE WIND LOADING FOR THE FRAMING TO BE BASED ON A 'N2' SITE CLASSIFICATION. REFER TO GEOTECHNICAL REPORT

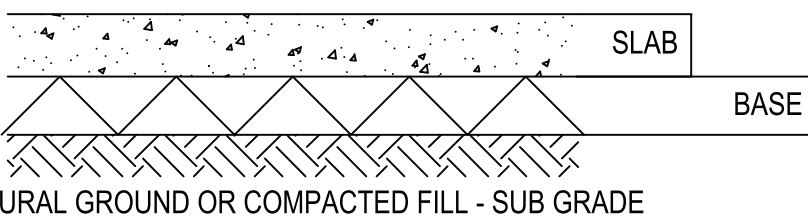
- G6. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.
- AS 3600 CONCRETE STRUCTURES CODE
- AS 4671 STEEL REINFORCING MATERIALS
- AS 4100 STEEL STRUCTURES CODE
- AS 1302 STEEL REINFORCING BARS FOR CONCRETE
- AS 1163 STRUCTURAL STEEL HOLLOW SECTIONS
- AS 1554 (PART 1.) WELDING IN BUILDINGS
- AS 1720.1 TIMBER ENGINEERING CODE
- AS 1289 METHODS OF TESTING SOILS FOR ENGINEERING PURPOSES
- AS 3700 MASONRY CODE
- AS 3798 GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
- AS 3610 FORMWORK FOR CONCRETE

FOUNDATIONS

- F1. REFER TO GEOTECHNICAL REPORT DONE BY - REPORT NUMBER '-', DATED '-'.
- F2. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING INTENSITY OF 1000kPa SANDSTONE. FOUNDATION MATERIAL TO BE APPROVED FOR THIS PRESSURE BY THE SUPERINTENDENT AND BUILDING AUTHORITY BEFORE REINFORCEMENT AND/OR CONCRETE ARE PLACED.
- F3. FOOTINGS TO BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS U.N.O.
- F4. RETAINING WALLS (OTHER THAN CANTILEVER WALLS) NOT TO BE BACKFILLED UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED. ENSURE FREE DRAINING BACKFILL IS USED, AND DRAINAGE IS IN PLACE. CANTILEVER WALLS TO BE BACKFILLED ONLY AFTER MINIMUM CONCRETE STRENGTH IS ACHIEVED.
- F5. BLINDING CONCRETE TO BE PLACED ON THE SAME DAY AS THE FINAL EXCAVATION TO THE FOUNDATION DESIGN LEVEL.
- F6. FOOTING LEVELS, WHERE SHOWN, ARE ESTIMATES ONLY AND WILL BE ESTABLISHED DURING SITE INSPECTION.
- F7. UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT/ENGINEER THE LIMITATIONS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS FOLLOWS:-



- F8. SUB GRADE AND SUB BASE FOR SLABS ON GROUND SHALL COMPLY WITH THE FOLLOWING:-



SUB GRADE:

UNLESS OTHERWISE SPECIFIED THE SUB GRADEBELOW BASE COURSES FOR SLABS SHALL BE SUITABLE MATERIAL COMPACTED TO 95% OF MAXIMUM DRY DENSITY DETERMINED BY TEST AS 1289-E 2.1 ORN 65% MINIMUM DENSITY INDEX FOR COHESIONLESS SOILS.

BASE:

BASE SHALL BE APPROVED WELL GRADED NATURAL GRAVEL OR CRUSHED ROCK (MAX. SIZE 40mm) SPREAD AND COMPACTED TO 98% OF MAXIMUM DRY DENSITY DETERMINED BY TEST AS 1289-E 2.1 OR 80% MINIMUM DENSITY INDEX FOR COHESIONLESS SOILS.

- F9. ALL FREE DRAINING GRANULAR FILL MATERIAL BEHIND RETAINING WALLS SHALL BE OF STRONG DURABLE PARTICLES CONFORMING TO THE FOLLOWING GRADINGS:-

AS SIEVE SIZE	% PASSING
53mm	100
9.5mm	45-100
2.36mm	20-75
600um	10-50
75um	<15

- F10. WHERE SELECT FILL IS SHOWN ON THE DRAWINGS, FILL SHALL COMPLY WITH THE FOLLOWING:-

1. REMOVE TOPSOIL (IF ANY)
 2. COMPACT SURFACE TO 95% MMDD
 3. PLACE FILL IN MAX. 150 THICK LAYERS, EACH LAYER COMPACTED TO 95% MMDD
 4. FILL TO COMPLY WITH:-
- MAX. PARTICLE SIZE 75mm
- PERCENTAGE PASSING 0.075mm SIEVE 25% MAX.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH A.S.3600 AND THE CONCRETE SPECIFICATION.
- C2. CONCRETE QUALITY:-

ELEMENT	SLUMP	MAX. SIZE AGGREGATE	CEMENT TYPE	CONCRETE GRADE
PIERS	80	20	GP	32MPa

MIN. CEMENT CONTENT = 280kg/m³ MAX. W/C RATIO = 0.5

PROJECT CONTROL TESTING TO BE CARRIED OUT IN ACCORDANCE WITH A.S.3600.

- C3. NO ADMIXTURES TO BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- C4. CONCRETE DIMENSIONS SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- C5. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C6. ALL EXPOSED EDGES AND CORNERS TO BE PROVIDED WITH 25mm FILLETS OR CHAMFERS. MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS UNLESS OTHERWISE INDICATED.
- C7. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS TO BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT/DESIGNER.
- C8. CONSTRUCTION JOINTS WHERE NOT SHOWN TO BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT/DESIGNER. DETAILS OF CONSTRUCTION JOINTS TO BE SUBMITTED TO THE SUPERINTENDENT/DESIGNER FOR APPROVAL.
- C9. THE FINISHED CONCRETE TO BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS, TO BE COMPACTED WITH MECHANICAL VIBRATORS.
- C10. CURING OF ALL CONCRETE TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED OR CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISH IS PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
- C11. CONSTRUCTION SUPPORT PROPPING TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
- C12. CONDUITS, PIPES ETC. ONLY TO BE LOCATED AS SHOWN IN THE DRAWINGS OR AS APPROVED BY THE SUPERINTENDENT/DESIGNER.
- C13. ALL FORMWORK AND PROPPING UNDER SUSPENDED CONCRETE WORKS SHALL BE REMOVED BEFORE ANY MASONRY WORK IS BUILT ABOVE.
- C14. CAMBERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND EXCEPT FOR PRESTRESSED WORK SHALL BE PROVIDED IN BEAMS AND SLABS AS FOLLOWS:-
- i) SPANS - 0.002 x SPAN
 - ii) CANTILEVERS - 0.004 x CANTILEVER LENGTH
- CAMBERS SHALL BE CHECKED BEFORE AND AFTER DEPROPPING TO DETERMINE THE DEFLECTION OF THE MEMBERS UNDER THEIR SELF WEIGHT. PROVISION SHALL BE MADE IN THE FORMWORK SYSTEM FOR THE STRUCTURAL ENGINEER TO VARY THE SPECIFIED CAMBERS ON THE BASIS OF THIS INFORMATION. THE TOP SURFACE OF A CAMBERED MEMBER SHALL BE FINISHED TO MAINTAIN THE SPECIFIED DEPTH OF THE MEMBER.
- C15. SHRINKAGE
- MAXIMUM DRYING SHRINKAGE STRAIN MEASURED IN ACCORDANCE WITH AS 1012 PART 13 SHALL NOT EXCEED 650×10^{-6} AT 8 WEEKS
- C16. BACKPROPPING FOR FORMWORK TO BE DESIGNED IN ACCORDANCE WITH AS 1509 AND SUBMITTED FOR ENGINEER'S COMMENTS
- C17. THE STRUCTURAL DESIGN FOR SUSPENDED STRUCTURES ASSUMES:-
1. A MAXIMUM COMBINED VERTICAL DEFLECTION OF FORMWORK AND PROPS OF 2mm UNDER THE WEIGHT OF CONCRETE, REINFORCEMENT AND CONSTRUCTION LIVE LOAD.
 2. REMOVAL OF FORMWORK AND PROPS SHALL COMPLY WITH CLAUSE 19.6.2 OF AS3600

REINFORCEMENT

- R1. CLEAR CONCRETE COVER TO ALL REINFORCEMENT TO BE AS FOLLOWS, UNLESS SHOWN OTHERWISE.

ELEMENT	COVER(mm) NOT EXPOSED TO WEATHER	COVER(mm) EXPOSED TO WEATHER
PILES	50	50
FOOTING BEAMS	20	50
SLAB ON GROUND	30 TOP	40 TOP
SUSPENDED SLAB	30 TOP	40 TOP

- R2. ALL REINFORCEMENT TO BE FIRMLY SUPPORTED NOT GREATER THAN 1m CENTRES BOTH WAYS, UNLESS NOTED OTHERWISE. BARS TO BE TIED AT ALTERNATE INTERSECTIONS.
- R3. REINFORCEMENT SYMBOLS:
- N - DENOTES GRADE 500 DEFORMED BARS TO A.S.4671
- Y - DENOTES GRADE 400 Y BARS TO A.S.1302 GRADE Y (TEMPCORE).
- R - DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO A.S.1302.
- SL, RL - DENOTES FABRIC TO AS 4671 (GRADE 500)
- F - DENOTES GRADE 450 F HARD-DRAWN WIRE REINFORCING FABRIC TO A.S.1304.
- W - DENOTES GRADE 450 W HARD-DRAWN PLAIN WIRE TO A.S.1303.
- 17Y20-250
- 17 - (NUMBER OF BARS IN GROUP)
- Y - (BAR GRADE AND TYPE)
- 20 - (NOMINAL BAR SIZE IN mm)
- 250 - (SPACING IN mm)
- THE FIGURE FOLLOWING THE FABRIC SYMBOL F IS THE REFERENCE NUMBER FOR FABRIC TO A.S.1304.
- R4. REINFORCEMENT BARS TO BE LAID IN LAYERS TAGGED ON PLANS AS FOLLOWS:-
- BB - DENOTES BARS LAID IN BOTTOM LAYER FIRST.
- B - DENOTES BARS LAID IN BOTTOM LAYER SECOND.
- T - DENOTES BARS LAID IN TOP LAYER FIRST.
- TT - DENOTES BARS LAID IN TOP LAYER LAST.
- R5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- R6. SPLICES IN REINFORCEMENT TO BE MADE ONLY IN POSITION SHOWN, OR OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT/DESIGNER. HOOKS, LAPS, SPLICES AND BENDS TO BE IN ACCORDANCE WITH AS 3600.
- LAPS TO BE NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR SHOWN BELOW U.N.O.

BAR SIZE (mm)	SPLICE LENGTH (mm)
N12	475
N16	625
N20	800
N24	950
N28	1250
N32	1575

- R7. WELDING OF REINFORCEMENT NOT TO BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SUPERINTENDENT/DESIGNER.
- R8. JOGGLES TO BARS TO BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- R9. FABRIC TO BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm. BUNDLED BARS TO BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF TIE WIRE.
- R10. AT PENETRATIONS IN SLABS, UNLESS OTHERWISE DETAILED REINFORCEMENT, NOT TO BE CUT BUT TO BE GATHERED EQUALLY TO EACH SIDE OF PENETRATION AND EXTRA REINFORCEMENT PROVIDED BETWEEN THE PENETRATIONS, AS DIRECTED BY THE SUPERINTENDENT/DESIGNER.
- R11. DISTRIBUTION BARS TO MAIN REINFORCEMENT IN SLABS SHALL BE N12 AT 300c/s. U.N.O.

MASONRY

- M1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.
- M2. ALL BLOCKWORK WALLS SHALL BE CONSTRUCTED IN GRADE 16 BLOCKS (15 MPA) ACCORDING TO AS/NZ 4455. ALL BRICKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30 MPA ACCORDING TO AS/NZ 4455. THE MAXIMUM UNRESTRAINED FIVE YEAR EXPANSION OF BRICKS SHALL BE IN ACCORDANCE WITH NATA TEST B01.
- M3. ALL MASONRY SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN THE CONCRETE.
- M4. NON LOADBEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 12MM THICK CLOSE CELL POLYETHYLENE STRIPS.
- M5. NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- M6. MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- M7. MORTAR SHALL BE FULL BED AND UNLESS NOTED OTHERWISE, THE NOMINAL PROPORTIONS BY VOLUME SHALL BE AS FOLLOWS:

EXPOSURE CLASSIFICATION	PORTLAND CEMENT (GP)	BLENDED CEMENT (GB)	BUILDING LIME	SAND
M3	1	0	1	5
	0	1	1	4
M4	1	0	0.5	4.5
	0	1	0.25	2.25

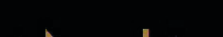
M3 - DENOTES AREAS WITH MODERATE EXPOSURE GREATER THAN 1KM FROM SURF COASTAL AREAS

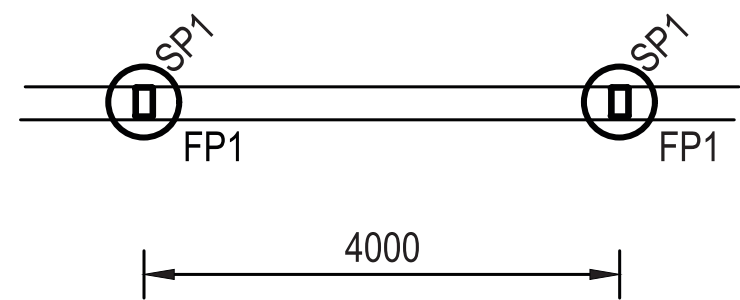
M4 - DENOTES AREAS WITH EXTREME EXPOSURE WITH 1KM FROM A SURF COAST OR AN INDUSTRY WHERE CHEMICAL POLLUTANTS ARE PRODUCED. REFER TO AS3700 FOR FURTHER DETAIL.

- M8. GROUT USED TO FILL CAVITIES AND CORES IN REINFORCED MASONRY SHALL HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH OF 32 MPA AND A SLUMP OF 225MM (+/-25MM) MAXIMUM AGGREGATE SIZE OF 10MM ROUNDED GRAVEL. NOMINAL PROPORTIONS SHALL BE 1 : 0.3 : 3 : 2 OF CEMENT, LIME, SAND, AGGREGATE AND WITH A MINIMUM CEMENT CONTENT OF 300 KG/C.M. PROVIDE CLEAN OUT HOLES AT BASE OF PILASTERS AND EVERY CORE OF REINFORCED WALLS.
- M9. HORIZONTAL JOINT REINFORCEMENT SHALL BE PROVIDED AT MAX. 600 VERTICAL SPACING FOR ALL CONCRETE BLOCKWORK, CONCRETE BRICKWORK, AND CALCIUM SILICATE BRICKWORK.
- M10. FULLY BED FACE SHELLS AND CROSS WEBS IN HOLLOW BLOCK WALLS.
- M11. HOLLOW BLOCKWORK OPENINGS GREATER THAN 600MM VERTICALLY OR HORIZONTALLY SHALL BE TRIMMED AT THE SIDES AND BOTTOM BY FILLING ONE CORE AND REINFORCE WITH 1N12 EXTENDING 600MM PAST OPENING. THE TOP OF THE OPENING SHALL HAVE A REINFORCED LINTEL BEAM, ARCH BAR OR STEEL ANGLE SUPPORT AS REQUIRED.
- M12. ALL TIES AND REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 50MM TO EXTERNAL FACE OF MASONRY.
- M13. ALL WALLS SHALL BE TIED OR BONDED AT THEIR INTERSECTIONS.
- M14. NO CAVITY OR CORE SHALL BE FILLED TO A HEIGHT GREATER THAN 1200MM WITHOUT SUITABLE SHORING.
- M15. ALL MASONRY WALLS AND PIERS SUPPORTING SLABS AND BEAMS SHALL HAVE A PRE-GREASED GALVANISED STEEL SLIP JOINT BETWEEN CONCRETE SOFFIT AND THE TOP OF THE MASONRY ELEMENT UNLESS NOTED OTHERWISE.
- M16. PROVIDE VERTICAL CONTROL JOINTS AT 10M. MAX. CENTRES, AND 5M MAX. FROM CORNERS IN ALL MASONRY WALLS, UNLESS NOTED OTHERWISE.
- M17. BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL UNLESS NOTED OTHERWISE. PROVIDE SUBSOIL DRAIN TO WEEP HOLES.
- M18. DO NOT CONSTRUCT MASONRY WALLS ON SUSPENDED CONCRETE SLABS UNTIL SLAB HAS BEEN STRIPPED AND DE-PROPPED.
- M19. ALL CAVITY CONSTRUCTION TO HAVE 316 GRADE STAINLESS STEEL WALL TIES INSTALLED AS PER CLAUSE 3.4 IN AS 3700.

STRUCTURAL STEEL

- S1. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH A.S.4100 AND A.S.1554.
- S2. UNLESS OTHERWISE NOTED, ALL STEEL TO BE GRADE 300 (HOLLOW SECTIONS TO BE GRADE 350).
- S3. ALL CONNECTION AND STIFFENER PLATES TO BE 10MM THICK U.N.O.
- S4. ALL WELDS TO BE 6MM CONTINUOUS FILLET SPECIAL PURPOSE WELDS U.N.O.
- S5. ALL WELDING TO BE SP U.N.O. FROM E41XX(ELECTRODES)/W48X(WIRE)
- S6. ALL BOLTS TO BE M20 AND NO CONNECTION TO HAVE LESS THAN 2 BOLTS U.N.O.
- S7. ALL BOLTS TO BE GALVANISED GRADE 8.8/S U.N.O.
- S8. ALL HOLDING DOWN BOLTS TO BE GALVANISED GRADE 4.6/S U.N.O.
- S9. UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATION, SURFACE TREATMENT OF STEEL WORK TO BE:
- APPLY ONE COAT INORGANIC ETHYL SILICATE ZINC PRIMER TO 60-75 MICRONS DRY FILM THICKNESS.
 - APPLY TWO COATS WATER MISCIBLE ACRYLIC PIGMENTED TO COLOUR TO 60 MICRONS DRY FILM THICKNESS. REPAIR DAMAGED COATING BY POWER TOOL CLEANING TO AS1627.2, OR IF INACCESSIBLE BY HAND TOOL CLEANING TO A.S.1627.7 FOLLOWED BY SOLVENT CLEANING DEGREASING TO A.S.1627.1, AND APPLY TWO PACK EPOXY ZINC-RICH PRIMER TO 75 MICRONS DRY FILM THICKNESS LAPPING SOUND PRIMER FOLLOWED BY TOP COATS TO MATCH SURROUNDING PAINT SYSTEM.
- S10. SHOP DRAWINGS TO BE SUBMITTED IN TRIPLICATE TO THE SUPERINTENDENT/DESIGNER FOR APPROVAL. FABRICATION NOT TO COMMENCE UNTIL APPROVAL HAS BEEN GIVEN.
- S11. EXAMINATION OF WELDS TO BE (INSPECTION AND TEST RECORDS TO BE SUBMITTED TO THE ENGINEER FOR):
- VISUAL SCANNING TO A.S.1554.1 APPENDIX F ON 100% OF WELDS;
 - APPLY TWO COATS WATER MISCIBLE ACRYLIC PIGMENTED TO COLOUR TO 60 MICRONS DRY FILM THICKNESS. VISUAL EXAMINATION TO A.S.1554.1 APPENDIX F ON 10% OF GP WELDS AND 20% REPAIR DAMAGED COATING BY POWER TOOL CLEANING TO AS1627.2, OR IF INACCESSIBLE BY HAND TOOL OF SP WELDS.
 - MAGNETIC PARTICLE EXAMINATION TO BE PERFORMED ON 1% OF GP WELDS AND 5% AND APPLY TWO PACK EPOXY ZINC-RICH PRIMER TO 75 MICRONS DRY FILM THICKNESS LAPPING SOUND PRIMER OF SP WELDS.
 - RADIOGRAPHY OR ULTRASONIC TESTING TO BE PERFORMED ON 2.5% FILLET WELDS AND 10% OF BUTT WELDS.
- S12. THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK TO BE SUPERVISED BY AN ENGINEER EXPERIENCED IN SUCH SUPERVISION TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET.
- S13. THE CONTRACTOR TO PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL ELEMENTS WHETHER OR NOT DETAILED ON THE DRAWINGS.
- S14. SUITABLE EQUIPMENT TO BE USED DURING LOADING. TRANSPORT AND ERECTION OF STEELWORK TO AVOID DAMAGE TO THE STEELWORK FINISHES. STEELWORK STORED ON SITE TO BE PROTECTED AGAINST CORROSION OR DETERIORATION OF PAINTED SURFACES.
- S15. AFTER TIGHTENING, EXPOSED FACES OF BOLTS, NUTS AND WASHERS SHALL BE PREPARED AND COATED AS SPECIFIED OR AS FOR ADJACENT STEELWORK.
- S16. THE ENDS OF ALL HOLLOW SECTIONS SHALL BE SEALED.
- S17. ALL COLD FORMED SECTIONS TO CONFORM TO A.S.1538 AND SHALL BE ROLL-FORMED FROM ZINC COATED HIGH STRENGTH STEEL STRIP. ZINC-HIGH-TEN MINIMUM YIELD STRESS 450 MPA, 300 G/M² MINIMUM COATING MASS UNLESS OTHERWISE NOTED ON DRAWINGS.
- S18. ALL PURLINS, GIRTS AND BRIDGING TO BE LYSAGHT OR APPROVED EQUIVALENT.
- S19. ALL CASES OF DAMAGE TO THE PROTECTIVE COATING OF STEELWORK SHALL BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT. WITH THE SUPERINTENDENT'S APPROVAL, MINOR DAMAGE MAY BE REPAIRED AS FOLLOWS:
- MECHANICALLY GRIND SURFACE TO ACHIEVE SMOOTH AND BRIGHT METAL COMPARABLE TO CLASS 2½. APPLY ZINC RICH PRIMER TO A DRY FILM THICKNESS AS PER SPECIFICATION REQUIREMENTS.
- S20. ABBREVIATIONS:
- CFW - CONTINUOUS FILLET WELD
- FPBW - FULL PENETRATION BUTT WELD
- PPBW - PARTIAL PENETRATION BUTT WELD
- S21. THE LOCATION OF ALL EXISTING ELEMENTS SHALL BE SITE MEASURED PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

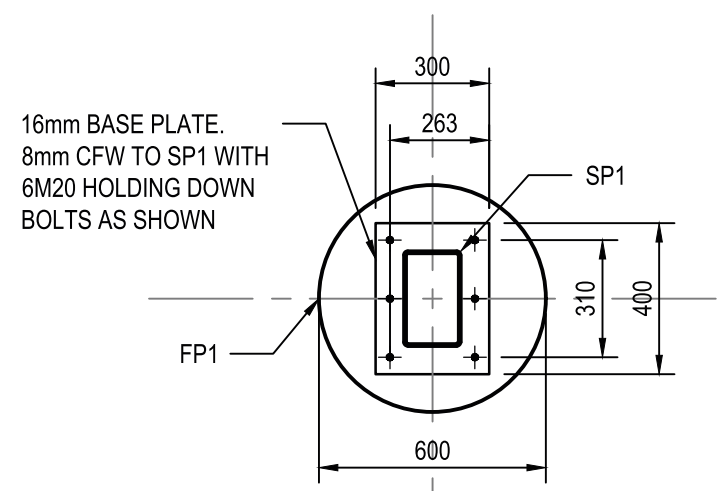
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									SCALE @ A1 N/A	DATE 11/07/2025	DRAWN C.E.	CHECKED N.M.
									CLIENT BAMBOOZEL PROJECTS	JOB NUMBER 2161	DRAWING S-000	REVISION A



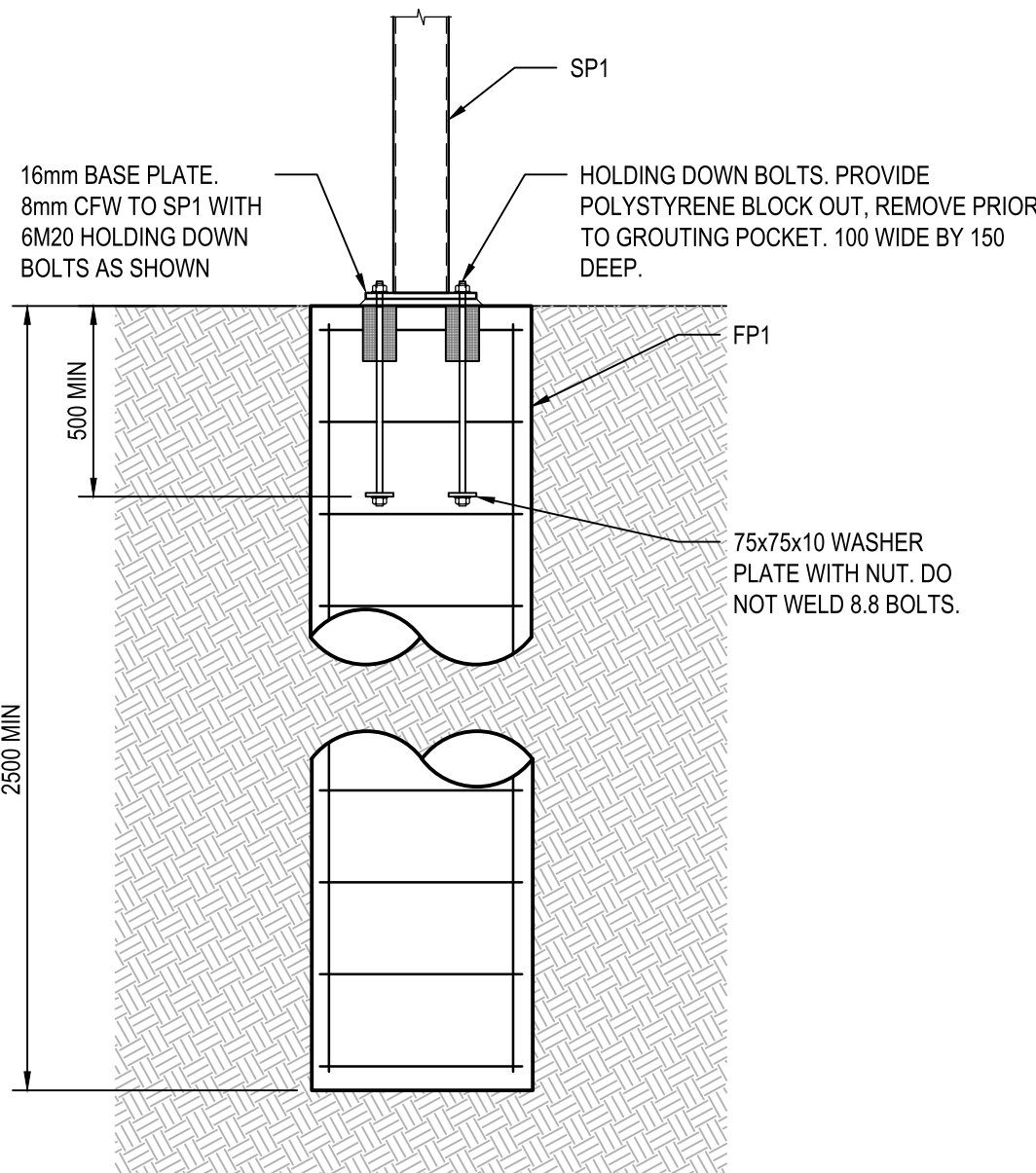
FOOTINGS PLAN

FRAMING SCHEDULE		
MARK	SIZE	COMMENTS
FP1	600 DIAMETER CONCRETE PIER EMBEDDED 2500mm INTO NATURAL GROUND MIN	PILE TO BE REINFORCED WITH 6N20 VERTICAL BARS AND N12-300 TIES
SP1	250x150x6 RHS POST	TO BE HOT DIPPED GALVANIZED
PU1	120x120 BMT TOP HAT	

NOTE:
• ALL STEEL BEAMS AND COLUMNS NOT FULLY PROTECTED SHALL BE HOT DIPPED GALVANIZED.

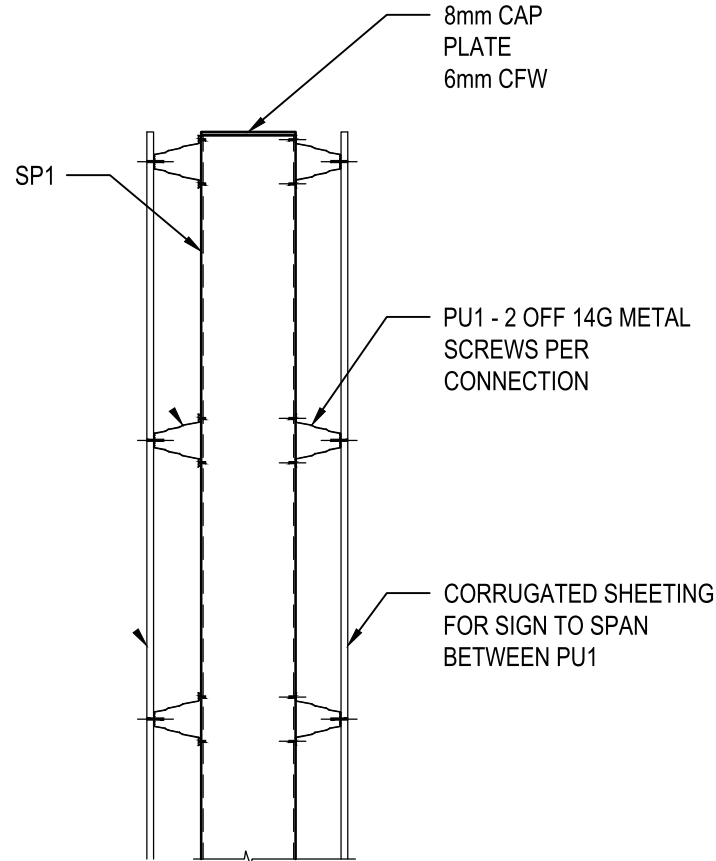


PLAN VIEW

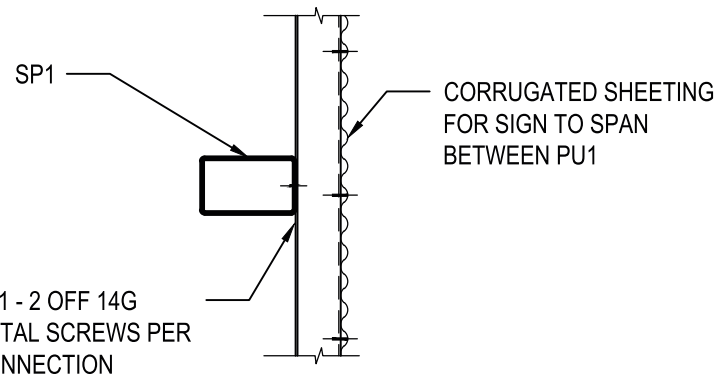


ELEVATION VIEW

TYPICAL PIER AND BASE PLATE CONNECTIONS

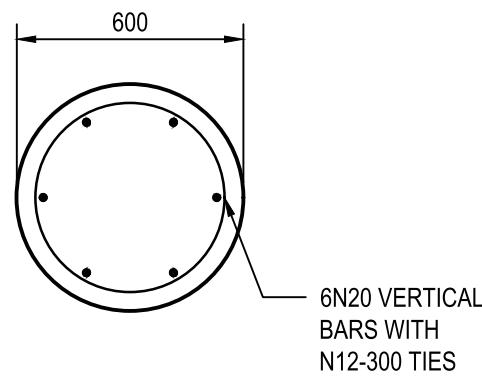


ELEVATION VIEW

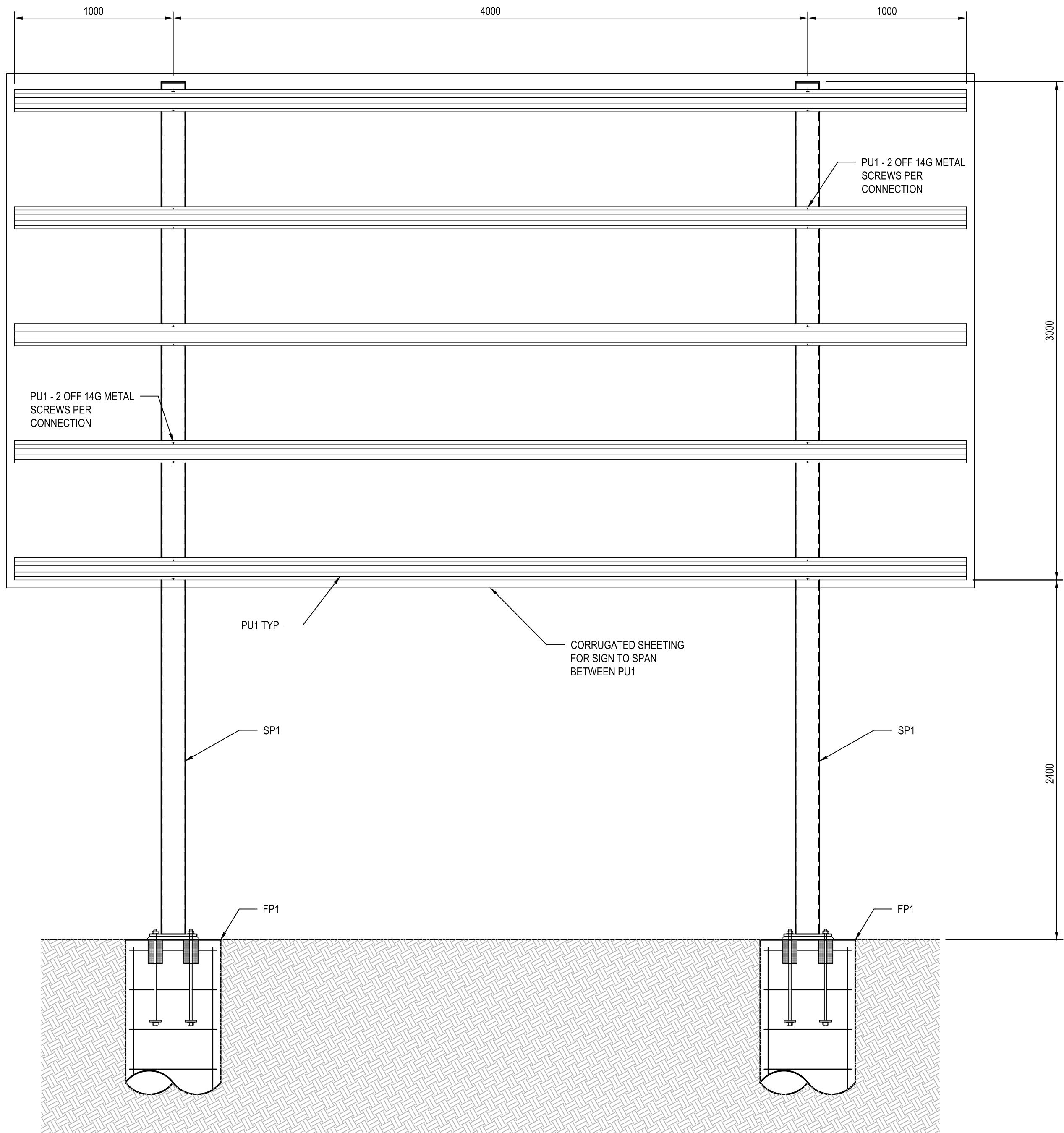


PLAN VIEW

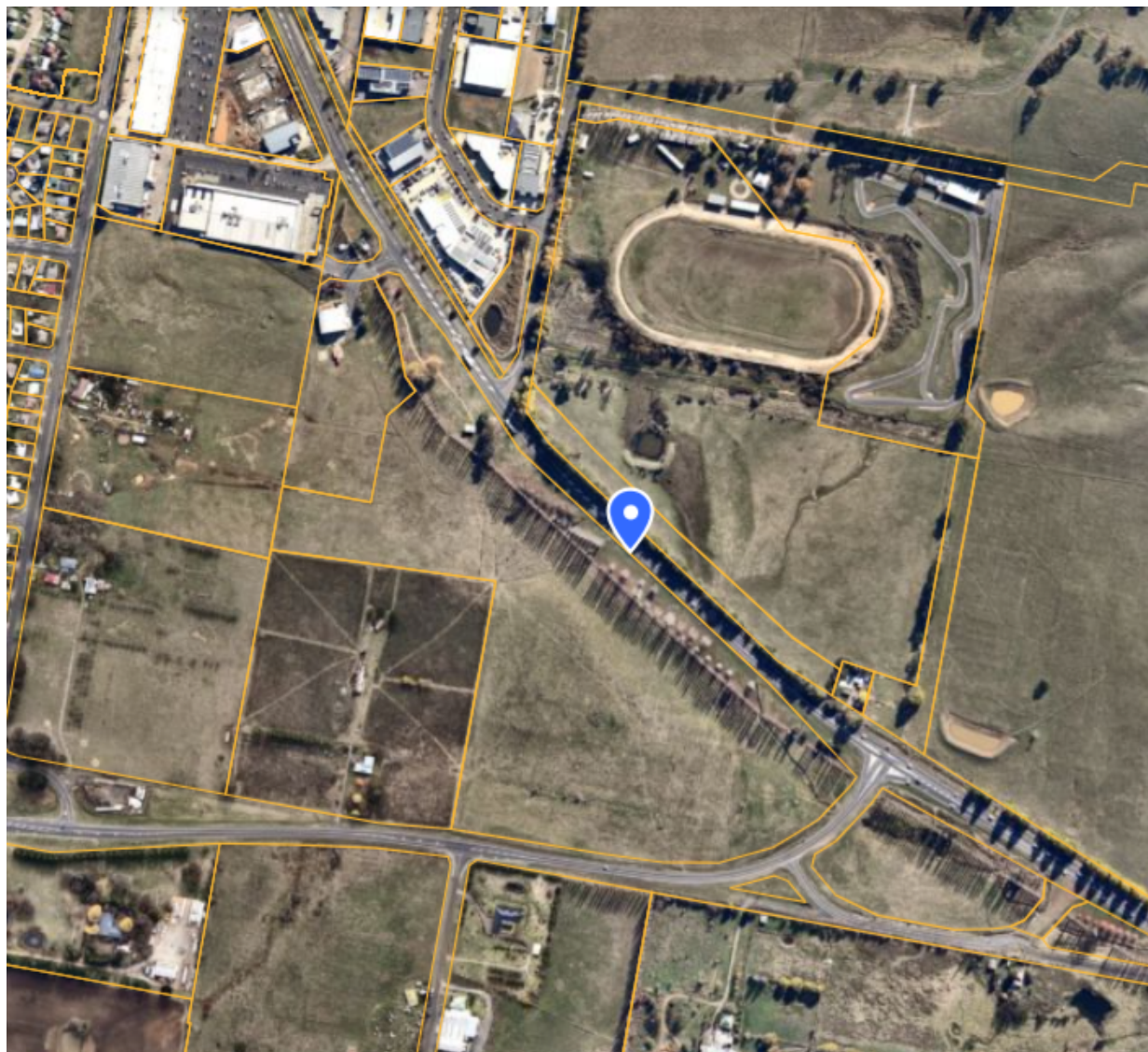
PU1 CONNECTION DETAIL



FP1 DETAIL



TYPICAL ELEVATION VIEW



PROPOSED LOCATION



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ISSUE | DATE | DESCRIPTION | DRAWN | ENG | CHECK | C.E. | N.M. | N.M.

A | 11/07/2025 | ISSUE FOR FINAL COORDINATION |

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BUILDER

ARCHITECT

PROJECT
MITCHELL HIGHWAY
ORANGE

CLIENT
BAMBOOZEL PROJECTS

DRAWING STATUS
ISSUE FOR FINAL COORDINATION

DRAWING TITLE
STRUCTURAL FRAMING

SCALE @ A1 N/A	DATE 11/07/2025	DRAWN C.E.	CHECKED N.M.
JOB NUMBER 2161	DRAWING S-100	REVISION A	