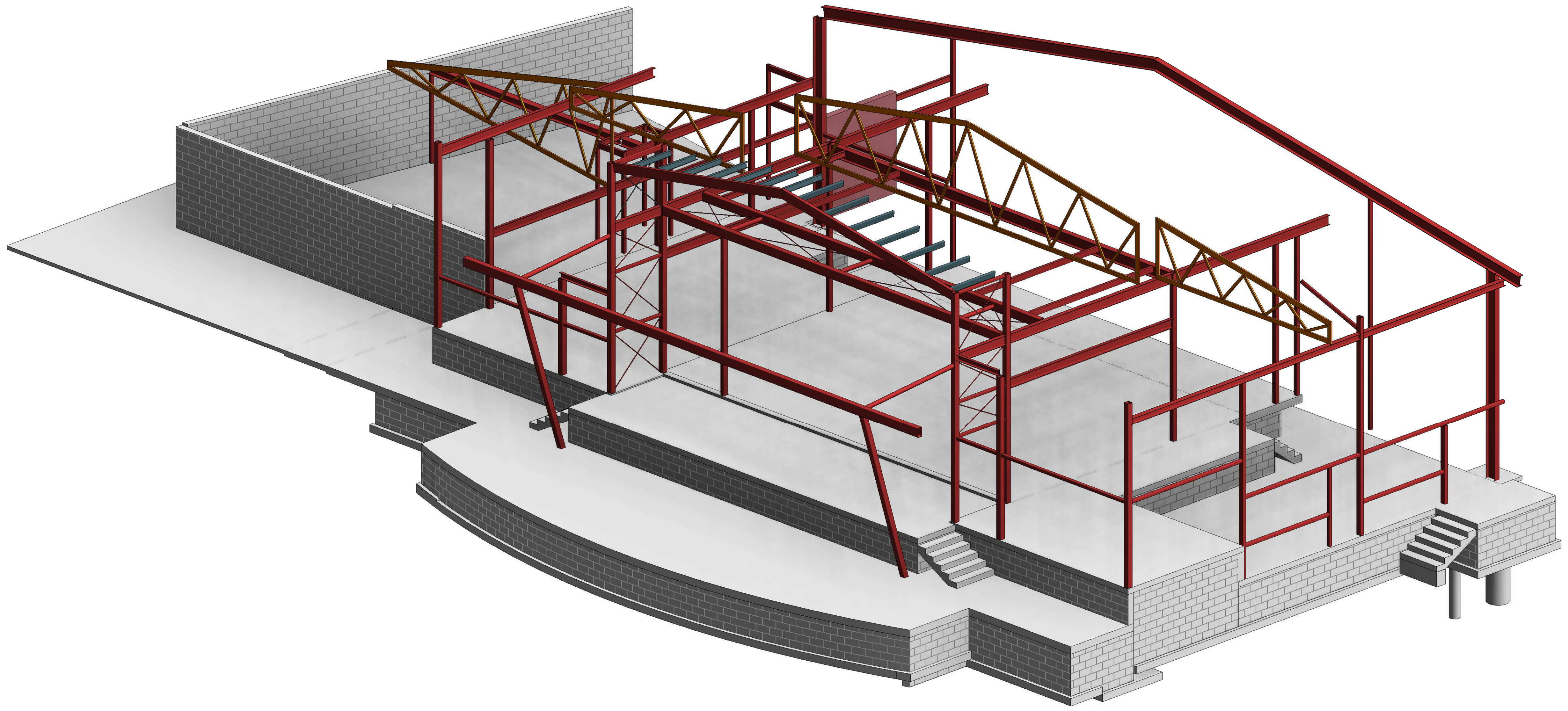
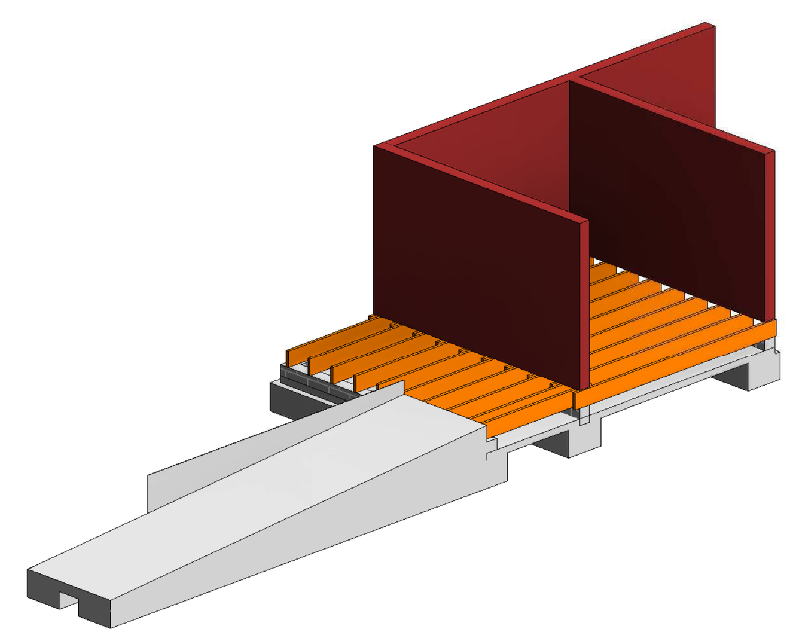
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

STRUCTURAL DRAWINGS





SHEET LIST

SHEET No.	SHEET NAME	REV
S1.00	COVER SHEET	1
S1.01	STANDARD NOTES - SHEET 1	1
S1.02	STANDARD NOTES - SHEET 2	1
S1.21	TYPICAL FOOTING DETAILS - SHEET 1	1
S1.22	TYPICAL FOOTING DETAILS - SHEET 2	1
S1.41	TYPICAL BLOCKWORK DETAILS - SHEET 1	1
S1.51	TYPICAL STAIR DETAILS	1
S1.61	TYPICAL SLAB ON GROUND DETAILS	1
S1.91	TYPICAL FRAMING DETAILS - SHEET 1	1
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S1.93	TYPICAL FRAMING DETAILS - SHEET 3	1
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S2.21	FOOTING PLAN	2
S6.01	GROUND FLOOR GENERAL ARRANGEMENT PLAN	2
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S9.15	ROOF FRAMING DETAILS	1
S9.21	BUILDING ELEVATIONS - SHEET 1	1
S9.22	BUILDING ELEVATIONS - SHEET 2	1

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS

TENDER

NOT FOR CONSTRUCTION

CLIENT

designtek

calibre

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PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

COVER SHEET

PROJECT No. **20-000180** DRAWING No. **S1.00** REVISION **1**

03-Apr-20 12:32:51 PM

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GENERAL

1. FOR THE PURPOSES OF THESE NOTES "SUPERINTENDENT" SHALL MEAN THE PRINCIPAL OR HIS CONTRACTUAL REPRESENTATIVE "CONTRACTOR" SHALL MEAN THE MAIN BUILDING CONTRACTOR "ENGINEER" SHALL MEAN THE CONSULTING STRUCTURAL/CIVIL ENGINEER.
2. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT SAA CODES INCLUDING ALL AMENDMENTS AND THE BUILDING CODE OF AUSTRALIA
3. ALL WORK SHALL BE UNDERTAKEN IN A SAFE AND RESPONSIBLE MANNER AND IN ACCORDANCE WITH ALL WORKCOVER REQUIREMENTS AND OH&S ACT REGULATIONS.
4. READ THESE DRAWINGS IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. REFER ANY DISCREPANCIES TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
5. UNLESS NOTED OTHERWISE, REFER TO THE ARCHITECTS DRAWINGS FOR SET OUT DIMENSIONS AND LEVELS PERTAINING TO THE BUILDING WORKS.
6. DO NOT SCALE FROM THE DRAWINGS. VERIFY ALL DIMENSIONS AND LEVELS FOR SETTING OUT AND OFF-SITE WORK BEFORE CONSTRUCTION AND FABRICATION BEGIN.
7. UNLESS NOTED OTHERWISE : ALL DIMENSIONS ARE IN MILLIMETRES ALL LEVELS ARE IN METRES TO THE AUSTRALIAN HEIGHT DATUM.
8. DURING CONSTRUCTION MAINTAIN THE STRUCTURE IN A STABLE CONDITION AND ENSURE NO PART IS OVERSTRESSED. PROVIDE ALL TEMPORARY PROPPING AND BRACING NECESSARY TO ACHIEVE THIS. ANY TEMPORARY WORKS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY.
9. WHERE STRUCTURAL CERTIFICATION IS REQUIRED, 'CALIBRE CONSULTING' WILL CARRY OUT INSPECTIONS AT HOLD POINTS DESCRIBED IN THE INSPECTION & TEST PLANS PREPARED BY "CALIBRE CONSULTING' OR AS AGREED BETWEEN THE CONTRACTOR & THE ENGINEER. GIVE THE INSPECTOR A MINIMUM OF 48 HOURS NOTICE THAT AN INSPECTION IS REQUIRED.
10. PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY ALL EXISTING SERVICES. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE. SERVICES SHOWN ON 'CALIBRE CONSULTING' DRAWINGS ARE INDICATIVE ONLY.
11. ENSURE THAT SUFFICIENT TOLERANCES ARE PROVIDED AND INTEGRATED THROUGHOUT ALL ELEMENTS OF THE WORKS.
12. KEEP ALL NON-LOAD BEARING ELEMENTS CLEAR OF THE STRUCTURE SOFFIT BY AN ALLOWANCE DETERMINED FROM SPAN/250 OR CANTILEVER/125 BUT NOT LESS THAN 20mm, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
13. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION FOR A COST VARIATION. ALL COST VARIATIONS INVOLVED MUST BE AGREED WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.

LEGEND/ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
HORIZ	HORIZONTAL	N/S	NEAR SIDE
VERT	VERTICAL	F/S	FAR SIDE
CENT	CENTRALLY PLACED	B/S	BOTH SIDES
CRS	CENTRES	U/S	UNDER SIDE
B	BOTTOM FACE	L	LENGTH/LONG
T	TOP FACE	W	WIDTH/WIDE
T&B	TOP & BOTTOM	H	HEIGHT/HIGH
NF	NEAR FACE	D	DEPTH/DEEP
FF	FAR FACE	NOM	NOMINAL
EF	EACH FACE	PT	POST TENSION
EW	EACH WAY	DWG	DRAWING
EQ	EQUAL	NTS	NOT TO SCALE
NSOP	NOT SHOWN ON PLAN	GA	GENERAL ARRANGEMENT
NSOE	NOT SHOWN ON ELEVATION	CJ	CONSTRUCTION/CONTRACTION JOINT
UNO	UNLESS NOTES OTHERWISE	SJ	SAWN JOINT
TYP	TYPICAL	MJ	MOVEMENT JOINT
CL	CENTRE LINE	EJ	EXPANSION JOINT
PL	PLATE	DJ	DOWEL JOINT
REQ'D	REQUIRED	IJ	ISOLATION JOINT
REINF	REINFORCEMENT	KJ	KEY JOINT
OPP	OPPOSITE	TJ	TOOL JOINT
SIM	SIMILAR	COS	CHECK ON SITE
ALT	ALTERNATE		

DATA DESIGN

1. STRUCTURAL ELEMENTS HAVE BEEN DESIGNED TO THE FOLLOWING CODES :

AS/NZS 1170.0:	GENERAL PRINCIPLES
AS/NZS 1170.1:	PERMANENT, IMPOSED & OTHER ACTIONS
AS/NZS 1170.2:	WIND ACTIONS
AS 1170.4:	EARTHQUAKE ACTIONS IN AUSTRALIA
AS 1720:	TIMBER STRUCTURES
AS 2159:	PILING
AS 2870:	RESIDENTIAL SLABS AND FOOTINGS
AS 3600:	CONCRETE STRUCTURES
AS 3700:	MASONRY STRUCTURES
AS 4100:	STEEL STRUCTURES
AS/NZS 4600:	COLD FORMED STEEL STRUCTURES
AS 4678:	EARTH RETAINING STRUCTURES

2. GEOTECHNICAL INFORMATION:
REFER TO SOIL REPORT B01920 DATED 23 MARCH 2020 BY SOILTECH TESTING SERVICES FOR GEOTECHNICAL INFORMATION ABOUT THIS SITE.

3. DESIGN LOADINGS:

LIVE LOADS:	kPa
Roof	>0.25 kPa
Stage / staging	7.5kPa / 4.5kN
Dressing room	5 kPa / 4.5kN
Prop Store	5 kPa / 4.5kN

WIND AND EARTHQUAKE LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH AS1170.2 AND AS1170.4 RESPECTIVELY BASED ON THE FOLLOWING DESIGN CRITERIA :

WIND LOADS	
REGION	B
STRUCTURE IMPORTANCE LEVEL	2
RETURN PERIOD FOR ULTIMATE WIND SPEED	V500 YRS
RETURN PERIOD FOR SERVICEABILITY WIND SPEED	V25 YRS
TERRAIN CATEGORY	TC2 from south; TC2.5 all other
WIND DIRECTION MULTIPLIER, Md	1 / 0.95
SHIELDING MULTIPLIER, Ms	1
TOPOGRAPHIC MULTIPLIER, Mt	1
INTERNAL PRESSURE COEFFICIENT	'-0.1, 0.2 FROM S; -0.3, 0.1 REMAINDER

EARTH QUAKE LOADS	
STRUCTURAL IMPORTANCE LEVEL	2
ANNUAL PROBABILITY OF EXCEEDANCE	1:500
PROBABILITY FACTOR (Kp)	1
HAZARD FACTOR (Z)	0.08
SITE SUB-SOIL CLASS	Ce
EARTHQUAKE DESIGN CATEGORY (EDC)	I

4. RETAINING WALL DESIGN PARAMETERS:
BULK DENSITY
WALL FRICTION
COEFFICIENT OF ACTIVE EARTH PRESSURE (Ka)
COEFFICIENT OF AT REST EARTH PRESSURE (Ko)
SURCHARGE
MAXIMUM BEARING PRESSURE UNDER FOOTING

DEMOLITION

1. ALL DEMOLITION SHALL COMPLY WITH AS2601, AND ALL RELEVANT WORKCOVER PUBLICATIONS AND REQUIREMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE WORKS DURING DEMOLITION. HE IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO CARRY OUT THE WORK. SUBMIT SAFE WORK METHOD STATEMENTS FOR REVIEW BY THE SUPERINTENDENT FOR ALL DEMOLITION WORKS.
3. PROPPING SHOWN ON THE DOCUMENTS IS THAT REQUIRED TO BE IN PLACE AT THE COMPLETION OF THE DEMOLITION WORKS. THIS IS THE MINIMUM PROPPING REQUIRED TO SUPPORT THE STRUCTURE SELF WEIGHT TOGETHER WITH A NOMINAL LIVE LOAD ONLY.ADDITIONAL PROPS MAY BE REQUIRED TO SUPPORT DEMOLITION EQUIPMENT DEBRIS etc.

SITE WORKS

1. EXISTING SERVICES INFORMATION SHOWN IS BASED ON INFORMATION SUPPLIED BY RELEVANT AUTHORITIES AND IS APPROXIMATE ONLY. DETERMINE THE ACTUAL LOCATIONS OF SERVICES PRIOR TO THE WORKS COMMENCING AND NOTIFY THE ENGINEER OF ANY CLASHES WITH NEW SERVICES.
2. EXISTING SURFACE CONTOURS WHERE SHOWN ARE INTERPOLATED AND MAY NOT BE ACCURATE.
3. POSSIBLE CONTAMINATION OF THIS SITE HAS NOT BEEN INVESTIGATED. SUSPECT SOILS EXPOSED DURING EXCAVATION AND GROUND WORKS SHALL BE REPORTED TO THE SUPERINTENDENT.
4. INSTALL AND MAINTAIN SEDIMENTATION CONTROL SYSTEMS AS SHOWN ON THESE DRAWINGS AND IN ACCORDANCE WITH THE LOCAL AUTHORITY'S REQUIREMENTS.
5. ENGAGE AND PAY FOR A GEOTECHNICAL ENGINEER TO ACT AS THE GEOTECHNICAL TESTING AUTHORITY (GTA) TO SUPERVISE THE EARTHWORKS FOR THIS PROJECT. THE EXTENT OF SUPERVISION SHALL BE AS FOR 'LEVEL 1' GEOTECHNICAL SUPERVISION IN ACCORDANCE WITH AS 3798. AFTER COMPLETION OF THE WORKS, THE GTA SHALL PROVIDE A CERTIFICATE SIGNED BY A QUALIFIED PROFESSIONAL ENGINEER THAT STATES THAT THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE DESIGN DRAWINGS AND THE SPECIFICATIONS.
6. UNLESS NOTED OTHERWISE ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150 mm UNDER ALL PROPOSED PAVEMENT AND BUILDING AREAS. STOCKPILE TOPSOIL ON SITE IF SO DIRECTED BY THE SUPERINTENDENT.
7. PRIOR TO THE PLACEMENT OF ANY FILLING TO PAVEMENTS OR BUILDINGS, THE EXPOSED SUBGRADE SHALL BE COMPACTED TO 95% STANDARD. ANY SOFT SPOTS OR DELETERIOUS MATERIAL SHALL BE REMOVED AND REPLACED WITH CBR 15 MATERIAL COMPACTED TO 95% STANDARD.
8. SITE WON FILL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE GTA.
9. UNLESS SPECIFIED BY THE ENGINEER, MAKE-UP FILL REQUIRED UNDER BUILDINGS SHALL BE SELECT MATERIAL WITH A MINIMUM SOAKED CBR 15 AND PLASTICITY INDEX OF 12% MAXIMUM
TEST CERTIFICATES ON THE FILL MATERIAL SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE USE OF THE FILL MATERIAL
10. CONSTRUCT FILL BATTERS BY OVERFILLING AND TRIMMING BACK TO FINAL PROFILE. BEFORE FILLING AGAINST AN EXISTING SLOPE BENCH THE SLOPE TO PROVIDE KEYING.
11. ALL FILLING, TRENCH BACKFILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN 200 mm MAXIMUM LOOSE THICKNESS LAYERS TO THE FOLLOWING MINIMUM DENSITY RATIOS AS DETERMINED BY AS 1289 UNLESS NOTED OTHERWISE :

	STANDARD	MODIFIED
LANDSCAPED AREAS	90%	-
PAVEMENT SUBGRADE	95%	-
PAVEMENT SUBBASE COURSE	-	95%
PAVEMENT BASECOURSE	-	98%
STRUCTURAL FILLING (GROUND FLOOR SLAB)	95%	-
ANY OTHER FILLING	95%	-

12. GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, GRADE THE SURFACE SMOOTHLY SO THAT IT WILL DRAIN AND TO MATCH ADJACENT SURFACES OR STRUCTURES.
13. ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICEABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE SUPERINTENDENT.

CONCRETE

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND THE PROJECT SPECIFICATION.
2. DESIGN AND CONSTRUCT THE FORMWORK AND BACKPROPPING IN ACCORDANCE WITH AS 3610.
3. CONCRETE SIZES AS DRAWN DO NOT INCLUDE APPLIED FINISHES AND MUST NOT BE REDUCED IN ANY WAY WITHOUT APPROVAL OF THE ENGINEER.
4. REFER TO THE ARCHITECTS DRAWINGS FOR ALL SLAB FALLS AND CONFIRMATION OF SLAB STEPS.
5. MAKE NO HOLES LARGER THAN 150mm, RECESSES OR EMBEDMENT OF PIPES IN CONCRETE MEMBERS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
6. SPACE CONDUITS CAST INTO CONCRETE MEMBERS AT MAX. DISTANCE POSSIBLE AND UNDER NO CIRCUMSTANCES CLOSER THAN A CLEAR SPACING OF TWICE THE LARGER CONDUIT DIAMETER FROM PARALLEL REINFORCEMENT OR ANY OTHER CONDUIT. NO CONDUITS SHALL BE PLACED WITHIN THE COVER OF THE REINFORCEMENT.
7. WHERE SLABS OR BEAMS BEAR ON MASONRY, ENSURE THE TOP COURSE IS LEVEL AND SMOOTH, AND COVER WITH 2 LAYERS OF SUPER ALCOR OR OTHER APPROVED SLIDING JOINT MATERIAL UNLESS NOTED OTHERWISE.
8. PROVIDE 20mm CHAMFER TO ALL FORMED EDGES AND CORNERS OF CONCRETE MEMBERS UNLESS NOTED OTHERWISE. SLAB EDGES SHALL BE TOOLED.
9. VISIBLE FORMED SURFACES SHALL HAVE A SMOOTH, HARD, UNIFORM TEXTURE AND BE CLASS 3 FINISH TO AS 3610, UNLESS NOTED OTHERWISE
10. NON-VISIBLE FORMED SURFACES SHALL BE CLASS 4 FINISH TO AS 3610, UNLESS NOTED OTHERWISE.
11. PROPERLY FORM CONSTRUCTION JOINTS AND USE ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. CAST CONSTRUCTION JOINTS VERTICAL OR HORIZONTAL AS APPROPRIATE AND THOROUGHLY SCABBLE THE INTERFACE OF HARDENED CONCRETE TO REMOVE LAITANCE.
12. MAXIMUM CONCRETE AGGREGATE SIZE TO BE 20mm UNLESS STATED OTHERWISE.
13. CONCRETE CHARACTERISTIC STRENGTHS (f'c) AND COVERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE :

ELEMENT	EXPOSURE CLASSIFICATION	COVER (mm)	GRADE (MPa)
BLINDING	-	-	10
SPREAD FOOTINGS	A2	50	25
STRIP FOOTINGS	A2	50	25
SLAB ON GROUND	A1	30	32
SUSPENDED SLABS	B1	40	32

14. CONCRETE SLUMP SHALL BE 80 mm UNLESS STATED OTHERWISE.
15. UNLESS NOTED OTHERWISE IN THE SPECIFICATION, TEST CONCRETE USING THE 'PROJECT ASSESSMENT' METHOD IN ACCORDANCE WITH AS 1379 AND THE TABLE BELOW. TAKE AT LEAST 2 CYLINDERS PER SAMPLE. SUBMIT TEST RESULTS TO THE ENGINEER.

PROJECT ASSESSMENT STRENGTH GRADE SAMPLING TABLE		
No. OF BATCHES FOR EACH TYPE & GRADE OF CONCRETE PER DAY	MINIMUM NUMBER OF SAMPLES	
	COLUMN, LOAD-BEARING WALLS, SLAB/BEAM (PT & RC) ELEMENTS PER BATCH	OTHER ELEMENTS PER DAY
1	1	1
2-5	1	2
6-10	1	3
11-20	1	4
EACH ADDTIONAL 10	1	1 ADDITIONAL

* RC (REINFORCED CONCRETE) & PT (POST-TENSIONED).

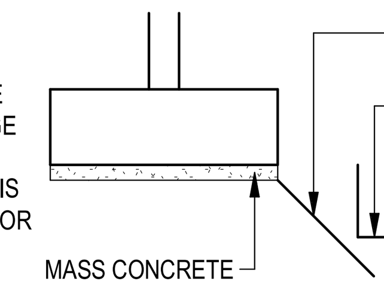
16. WHEN CONCRETING DURING HOT (MORE THAN 25°C) AND/OR WINDY CONDITIONS, APPLY ALIPHATIC ALCOHOL TO HORIZONTAL ELEMENTS BEFORE INITIAL SET.
17. INITIATE AN APPROVED METHOD OF CURING FOR ALL CONCRETE ELEMENTS AS SOON AS PRACTICABLE AFTER THE CONCRETE HAS SET AND MAINTAIN IT FOR AT LEAST 7 DAYS.
18. FORMWORK STRIPPING:
UNLESS SPECIFIED OTHERWISE IN THE PROJECT DOCUMENTATION, MINIMUM STRIPPING TIMES FOR IN-SITU CONCRETE FORMWORK SHALL COMPLY WITH SECTION 5.4.3 (TABLE 5.4.1) OF AS3610-'FORMWORK FOR CONCRETE'.
19. UNLESS NOTED OTHERWISE SLABS SHALL RECEIVE A CLASS U3 FINISH (SMOOTH STEEL TROWELLED FINISH) IN ACCORDANCE WITH THE PROJECT SPECIFICATION. ALL EXTERNAL SLABS, STAIRS AND RAMPS SHALL HAVE A NON-SLIP FINISH CREATING BY BRUSHING LIGHTLY WITH A SOFT BROOM AFTER TROWELLING.
20. SAW CUT JOINTS IN SLABS ON GROUND AS EARLY AS POSSIBLE WITHOUT CAUSING UNACCEPTABLE RAVELLING OF JOINT EDGES (NORMALLY WITHIN 16 HOURS OF CASTING SLAB).

FOUNDATIONS

1. FOUND ALL FOOTING ELEMENTS IN NATURAL MATERIAL WITH MINIMUM SAFE ALLOWABLE BEARING PRESSURES (SABP) AS FOLLOWS:

ELEMENT	kPa
PAD FOOTINGS	100kPa
STRIP FOOTINGS	100kPa
RET. WALL FOOTINGS	100kPa
BORED PIERS	100kPa

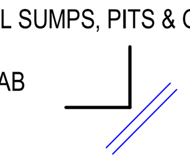
2. ENGAGE A GEOTECHNICAL ENGINEER TO VERIFY SAFE ALLOWABLE BEARING PRESSURES BEFORE PLACEMENT OF BLINDING CONCRETE OR REINFORCEMENT.
3. SITE CLASSIFICATION (TO AS 2870) IS CLASS - P WITH S REACTIVITY
4. ENSURE THE BASES OF ALL EXCAVATIONS ARE FREE OF ANY ORGANIC OR LOOSE MATERIAL AND WATER PRIOR TO PLACEMENT OF CONCRETE. CLEAN OUT BORED PIER BASES WITH A CLEANOUT BUCKET OR BY HAND. USE FORM WORK WHERE THE SIDES OF THE FOUNDATION ARE NOT STABLE.
5. FOR INTERNAL SLABS CAST ON GROUND, REMOVE ALL ORGANIC TOP SOIL FROM THE SLAB AREA. THE SLAB SHALL BEAR ON MATERIAL WITH A MINIMUM SAFE ALLOWABLE BEARING CAPACITY OF 50kPa, OVERLAIN WITH 50mm OF COMPACTED PACKING SAND OR CRUSHER DUST, AND AN 0.2mm POLYTHENE MEMBRANE LAPPED 200mm AND TAPED AT JOINTS.
6. APPLY A 50mm MINIMUM BLINDING LAYER TO THE BASE OF ALL FOUNDATIONS IMMEDIATELY AFTER VERIFICATION OF THE BEARING CAPACITY BY THE GEOTECHNICAL ENGINEER. WHERE THE FOUNDING MATERIAL IS DEEPER THAN REQUIRED FOR THE FOOTING BACKFILL, THE EXCAVATION IS TO BE BACKFILLED WITH A WEAK MIX CONCRETE (N10) TO THE UNDERSIDE OF THE FOOTING.
7. WHERE AN EXCAVATION IS REQUIRED OR EXISTS BELOW THE BASE OF A FOOTING, THE SIDE OF THE EXCAVATION SHALL BE LOCATED AWAY FROM EDGE OF FOOTING BY THE SAME DISTANCE THAT THE EXCAVATION IS BELOW FOOTING BASE. WHERE THIS CANNOT BE ACHIEVED, CONTACT THE ENGINEER FOR FURTHER DIRECTION.



8. ALL WALLS AND COLUMNS SHALL BE CONCENTRIC WITH THEIR SUPPORTING FOOTINGS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. EXCESS DEPTHS AND WIDTHS IN FOUNDATIONS OVER AND ABOVE THE DIMENSIONS SPECIFIED SHALL BE FILLED WITH GRADE 15 CONCRETE. THE COST OF FILLING SHALL BE BORNE BY THE CONTRACTOR.

SLAB ON GROUND

1. REINFORCE SLAB WITH SL82 FABRIC TOP THROUGHOUT (30 COVER) U.N.O.
2. REFER ARCHITECTURAL DWGS FOR ALL FLOOR FINISHES, LEVELS, FALLS & REBATES.
3. REFER SERVICES DWGS FOR ALL LOCATIONS/DIMENSIONS OF ALL SERVICE SLAB PENETRATIONS.
4. REFER TO HYDRAULIC ENGINEERS DETAILS FOR ALL SUMPS, PITS & GRATED DRAINS U.N.O.
5. PROVIDE 2N12-100 (1200) TRIMMER BARS TO ALL SLAB RE-ENTRANT CORNERS. TIE TO U/S OF TOP MESH.



6. PROVIDE BAR CHAIRS AT 800 x 800 CRS. SET CHAIRS ON STEEL PANS.
7. ALL EXTERNAL LANDSCAPING SLABS TO BE 120 S.O.G. WITH SL82 TOP MESH, 40 COVER UNLESS NOTED OTHERWISE. PROVIDE AN EDGE THICKENING TYP. AND SAW CUT JOINTS AT MAX 6m CRS. REFER LANDSCAPE ARCHITECT FOR EXTENT.
8. REFER HYDRAULIC ENGINEERS DRAWINGS FOR UNDERSLAB GROUNDWATER DRAINAGE.

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CLIENT
designtek

calibre
 calibregroup.com

PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
STANDARD NOTES - SHEET 1

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.01	1

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REINFORCING

1. ALL REINFORCING STEEL SHALL COMPLY WITH ALL REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS. MANUFACTURERS OF REINFORCING STEEL SHALL HOLD A VALID CERTIFICATE OF APPROVAL ISSUED BY AN ACCEPTABLE THIRD PARTY COMPLIANCE ASSESSMENT BODY SUCH AS THE AUSTRALIAN CERTIFICATION AUTHORITY FOR REINFORCING STEEL (ACRS). EVIDENCE OF COMPLIANCE MUST BE SUBMITTED WHEN TENDERING AND AS PART OF THE QUALITY ASSURANCE PROCESS.

2. ABBREVIATIONS FOR STEEL GRADE AND TYPE:
   "R" - STRUCTURAL GRADE R250N PLAIN ROUND BAR.
   "N" - GRADE D500N DEFORMED BAR.
   "RL" AND "SL" - GRADE 500 HARD DRAWN STEEL WIRE REINFORCING MESH RECTANGULARLY/ SQUARELY CONFIGURED.
   "LxTM' GRADE 500 HARD DRAWN STEEL TRENCH MESH
   "W" - GRADE 500 STEEL WIRE TO AS/NZS 4671
   ALL REINFORCEMENT SHALL BE TO AS/NZS 4671 AND ACRS CERTIFIED.

3. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.

4. ENSURE THE CORRECT SPACING OF BARS IS MAINTAINED AND ALL REINFORCEMENT IS SUPPORTED IN ITS CORRECT POSITION BY APPROVED PLASTIC BAR CHAIRS, SPACERS OR SUPPORT BARS AT 800 MAX CRS IN BOTH DIRECTIONS.

5. FIX REINFORCEMENT WITH 1.25mm MIN. DIA. ANNEALED WIRE TIES SUCH THAT IT IS SUPPORTED AND MAINTAINED IN POSITION WITHIN THE TOLERANCES GIVEN IN AS3600 CLAUSE 17.5.3.

6. LAPS TO FABRIC REINFORCEMENT SHALL BE AT LEAST 2 CROSS WIRES ON EACH SHEET + 25mm. LAPS TO TRENCH MESH SHALL BE 500mm MINIMUM AT SPLICES AND FULL WIDTH AT INTERSECTIONS. LAPS TO BARS SHALL BE AS FOLLOWS :

GRADE D500N BAR LAP LENGTHS (FOR MINIMUM COVER = 25mm)								
	BAR SIZE							
	N10	N12	N16	N20	N24	N28	N32	N36
HORIZONTAL BAR >300mm CONCRETE BELOW	450	600	900	1250	1600	1900	2300	2700
OTHERWISE	350	450	700	950	1200	1500	1800	2100

7. TABULATED VALUES ARE VALID FOR MINIMUM COVER = 25mm, MINIMUM BAR SPACING = 2 x COVER, AND MINIMUM 'f'c' = 32 MPa.

8. MULTIPLY BY 1.5 FOR EPOXY-COATED BARS, 1.3 FOR LIGHTWEIGHT CONCRETE AND 1.3 FOR ALL ELEMENTS BUILT WITH SLIP FORMS

9. IF BARS OF DIFFERENT DIAMETERS ARE LAPPED, USE THE LAP LENGTH FOR THE SMALLER DIAMETER BAR.

10. SPLICE REINFORCEMENT ONLY AT LOCATIONS AND TO DETAILS SHOWN ON STRUCTURAL DRAWINGS. WHERE SPLICES ARE NOT SHOWN BUT APPROVED BY THE ENGINEER, THE SPLICE SHALL CONFORM TO AS 3600 PROVISIONS.

11. BEND REINFORCEMENT IN ACCORDANCE WITH AS 3600 - 2018.

12. DO NOT HEAT OR WELD REINFORCEMENT WITHOUT APPROVAL OF THE ENGINEER.

13. DO NOT CUT REINFORCEMENT TO CLEAR SMALL PENETRATIONS. DISPLACE REINFORCEMENT TO CLEAR PENETRATIONS OR PROVIDE TRIMMER BARS WITH MINIMUM LAP LENGTHS TO REPLACE CUT REINFORCEMENT. FOR LARGE PENETRATIONS, FOLLOW DETAILS PROVIDED OR SEEK INSTRUCTIONS FROM THE ENGINEER.

14. WHERE NO REINFORCEMENT IS SHOWN ON THE DRAWING AT RIGHT ANGLES TO THE MAIN REINFORCEMENT PROVIDE N12-450 DISTRIBUTION REINFORCEMENT. UNO

BORED PILES

1. THE INSTALLATION OF THE PILES SHALL BE IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND AS2159.

2. A LIMITED FOUNDATION INVESTIGATION IS AVAILABLE. SHOULD ANY FURTHER INFORMATION BE REQUIRED THE CONTRACTOR SHALL ARRANGE THE WORK AT OWN COST.

3. POSITIONS OF SERVICES ARE GIVEN FOR GUIDANCE ONLY. LOCATIONS AND/OR DEPTH MAY NOT BE ACCURATELY REPRESENTED AND OTHER SERVICES MAY EXIST ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE POSITION OF ALL SERVICES PRIOR TO COMMENCING PILING. EXCAVATE AS REQUIRED TO CONFIRM THE LOCATION OF ADJACENT SERVICES.

4. THE CONTRACTOR SHALL ENGAGE AND PAY FOR A GEOTECHNICAL ENGINEER TO VERIFY THAT THE BASE BEARING & SKIN FRICTION VALUES ASSUMED IN DESIGN HAVE BEEN ACHIEVED.

5. UNLESS NOTED OTHERWISE THE CENTRELINE OF THE BORED PIER IS TO COINCIDE WITH CENTRELINE OF COLUMN ABOVE. REFER TO THE ARCHITECTURAL DRAWINGS FOR COLUMN SETOUT DETAILS.

6. UNLESS NOTED OTHERWISE ON THE DRAWINGS, INSTALLATION TOLERANCES:
   PLAN POSITION AT TOP OF PILE: ±75mm
   VERTICALITY: 2%

7. PROVIDE TEMPORARY LINERS WHERE LOOSE SOIL OR WATER INGRESS ARE LIKELY TO AFFECT THE INTEGRITY OF THE BORE HOLE BEFORE PLACEMENT OF CONCRETE. REMOVE LINERS AT TIME OF CONCRETING. TAKE CARE TO AVOID VOIDS.

8. ORIENT REINFORCEMENT CAGES TO ALLOW PLACEMENT OF ANCHORS WITHOUT CUTTING MAIN VERTICAL BARS.

9. BORED CAST INSITU REINFORCED CONCRETE PILES UNDER COLUMNS AND WALLS SHALL COMPLY WITH THE FOLLOWING, UNLESS NOTED OTHERWISE:
   - MINIMUM CONCRETE GRADE f'c = 32MPa WITH A MINIMUM CEMENT CONTENT OF 400kg/CUBIC METRE
   - CONCRETE SLUMP SHALL BE IN THE RANGE OF 100mm TO 180mm AT THE POINT OF DISCHARGE
   - MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT = 50mm

10. CONCRETE SHALL BE PLACED USING A BOTTOM DUMP BUCKET OR A TREMIE PIPE TO LIMIT THE FREE FALL OF CONCRETE TO A MAXIMUM OF 1200mm. A MINIMUM OF 900mm AT THE TOP OF EACH PILE SHALL BE THOROUGHLY COMPACTED THROUGH INTERNAL VIBRATION.

11. PROVIDE A SURVEY PLAN COMPILED BY A REGISTERED SURVEYOR SHOWING THE AS BUILT LOCATION OF THE PILES RELATIVE TO THEIR DESIGN POSITION PRIOR TO CONSTRUCTION OF THE PILE CAPS. FOR SHORING PILES, PROVIDE A SECOND SURVEY PLAN SHOWING THE AS-BUILT LOCATIONS OF THE PILES AT THE BOTTOM OF THE EXCAVATION. PILES WILL NOT BE ACCEPTED UNTIL SURVEY PLANS ARE SUPPLIED.

12. IF BORED PILES ARE OUTSIDE INSTALLATION TOLERANCE, DESIGN & CONSTRUCT ANY NECESSARY MODIFICATIONS TO THE PILECAPS OR FOOTINGS DOCUMENTED TO ENSURE THAT THE LOADS FROM THE SUPERSTRUCTURE ARE ADEQUATELY TRANSFERRED INTO THE PILES. THE COSTS OF ANY SUCH MODIFICATIONS SHALL BE BORNE BY THE CONTRACTOR.

13. PILECAP AND GROUND BEAM SIZES ARE BASED ON PILE DIAMETERS AS NOTES ON THE DRAWINGS. ANY CHANGE TO PILE DIAMETERS OR NUMBERS MAY AFFECT PILECAP AND GROUND BEAM SIZES. THE COST OF SUCH A CHANGE INCLUDING ANY REDOCUMENTATION, SHALL BE BORNE BY THE CONTRACTOR.

14. SEWER LEVELS SHALL BE VERIFIED ON SITE PRIOR TO ANY ANCHOR PLACEMENT. THE ENGINEER IS TO BE ADVISED IF ANY CLASHES OCCUR.

STRUCTURAL STEELWORK

1. ALL STRUCTURAL STEEL SHALL COMPLY WITH ALL REQUIREMENTS OF THE RELEVANT AUSTRALIAN STANDARDS. MANUFACTURERS OF STRUCTURAL STEEL SHALL HOLD A VALID CERTIFICATE OF APPROVAL ISSUED BY AN ACCEPTABLE THIRD PARTY COMPLIANCE ASSESSMENT BODY SUCH AS THE AUSTRALIAN CERTIFICATION AUTHORITY FOR REINFORCING STEEL (ACRS). EVIDENCE OF COMPLIANCE MUST BE SUBMITTED WHEN TENDERING AND AS PART OF THE QUALITY ASSURANCE PROCESS.

2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100, AS 1554 PARTS 1 & 2 AND THE PROJECT SPECIFICATION.

3. CHECK ALL DIMENSIONS RELEVANT TO SETTING OUT AND SITE WORK ON SITE PRIOR TO COMMENCING FABRICATION.

4. SUBMIT TWO (2) COPIES OF ALL WORKSHOP DRAWINGS TO THE SUPERINTENDENT AND OBTAIN APPROVAL IN WRITING BEFORE BEGINNING FABRICATION. APPROVAL DOES NOT INCLUDE CHECKING DIMENSIONS.

5. THE GRADE OF STRUCTURAL STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE :

SECTION	GRADE (MPa)
HOT ROLLED SECTIONS	300
CIRCULAR HOLLOW SECTIONS	350
SQUARE HOLLOW SECTIONS	350
RECTANGULAR HOLLOW SECTIONS	350
PLATE	250

6. BOLTS DESIGNATED 4.6/S SHALL BE COMMERCIAL BOLTS TO AS 1111 AND AS 1112 TIGHTENED TO A SNUG TIGHT FIT. BOLTS DESIGNATED 8.8/S SHALL BE HIGH STRENGTH STEEL BOLTS TO AS 1252 TIGHTENED TO A SNUG TIGHT FIT. BOLTS DESIGNATED 8.8/TF OR 8.8/TB SGAKK VE HIGH STRENGTH STEEL BOLTS TO AS 1252, FULLY TENSIONED IN ACCORDANCE WITH AS 4100.

7. WELDING SHALL BE DONE BY A QUALIFIED WELDER IN ACCORDANCE WITH AS 1554.

8. ALL BUTT WELDS TO BE SUBJECT TO NON-DESTRUCTIVE TESTING TO AS 1554.1 & AS 2177.1. EXTENT OF TESTING AS BELOW:

VISUAL SCANNING	VISUAL SCANNING	VISUAL EXAMINATION IN ACCORDANCE WITH TABLE 6.2.2 AS 1554.1	VISUAL EXAMINATION IN ACCORDANCE WITH TABLE 6.2.2 AS 1554.1
GP	100	25	NIL
SP	100	50	10

9. THE CONTRACTOR SHALL SUBMIT THE APPROPRIATE TEST CERTIFICATES TO THE STRUCTURAL ENGINEER PRIOR TO STRUCTURAL CERTIFICATION

10. UNLESS NOTED OTHERWISE :
    - ALL GUSSET AND CONNECTION PLATES SHALL BE 10mm
    - ALL WELDS SHALL BE STRUCTURAL PURPOSE (SP)
    - WELDING ELECTRODE SHALL BE E48XX
    - ALL FILLET WELDS SHALL BE 6 mm CONTINUOUS (6CFW)
    - ALL BUTT WELDS SHALL BE FULL PENETRATION
    - ALL BOLTS SHALL BE M20 8.8/S TO AS/NZS 1252
    - ALL CONNECTIONS SHALL HAVE AT LEAST 2/M20 8.8/S BOLTS
    - ALL BOLTS AT BEAM SPLICES/MOMENT CONNECTIONS SHALL BE 8.8/TB.
    - BOLT HOLE CLEARANCE SHALL BE 2 mm UP TO M24 (INCLUSIVE) AND 3mm FOR LARGER BOLTS, WITH 6mm HOLE CLEARANCES FOR BASEPLATES.
    - CLASS 8.8 BOLTS SHALL BE TENSIONED WITH LOAD INDICATING WASHERS OF THE SQUIRTER TYPE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
    - ALL REFERENCES TO CHEMICAL ANCHORS SHALL BE RAMSET CHEMSET GRADE 5.8 STEEL ANCHOR STUDS WITH CHEMSET MAXIMA SPIN CAPSULE, UNLESS NOTED OTHERWISE, OR STRUCTURAL ENGINEER APPROVED EQUIV, INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

11. SEAL THE ENDS OF ALL HOLLOW SECTIONS WITH 6mm THICK PLATE AND 5mm SEAL WELD.

12. PROVIDE HOT DIP GALVANISED BOLTS, NUTS AND WASHERS TO ALL EXTERNALLY EXPOSED STEELWORK, INCLUDING PURLINS AND GIRTS IN ACCORDANCE WITH WITH AS 1214.

13. DO NOT CUT PENETRATIONS THROUGH STEEL MEMBERS INCLUDING PURLINS UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

14. PROVIDE R6 PURLIN HANGERS (MIN 2 PER LENGTH) TO ALL ROD ROOF BRACING. ALL ANGLE ROOF BRACING TO BE CROSS BOLTED WITH 1/M20 8.8/S

15. UNLESS NOTED OTHERWISE ALL EXTERNAL EXPOSED STEELWORK AND STEELWORK IN MASONRY CAVITIES, INCLUDING CONNECTION ELEMENTS SHALL BE HOT DIP GALVANISED TO AS 4680. MINIMUM COATING MASS 600g/m² ALL OTHER STEELWORK SHALL BE GRIT BLAST CLEANED TO CLASS 2.5 AND SHOP PRIMED WITH DULUX ZINCANODE 304 OR APPROVED EQUIVALENT. DRY FILM THICKNESS MIN. 75um. FAYING SURFACES OF STEEL CONNECTIONS WHERE FRICTION GRIP BOLTS (TYPE /TB OR /TF BOLTS) ARE SPECIFIED SHALL BE LEFT UNCOATED UNLESS OTHERWISE SHOWN

16. LEAVE CONCRETE ENCASED STEELWORK UNPAINTED AND WRAP IN FGW 41 FABRIC UNLESS SHOWN OTHERWISE.

17. REFER TO ARCHITECTS DETAILS FOR FIRE PROTECTION OF ALL STEELWORK

18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY WORKS REQUIRED DURING ERECTION.

PURLINS AND GIRTS

1. PURLINS AND GIRTS TO BE GRADE 450 MPa, Z350.

2. ALL PURLIN AND GIRT DETAILS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.

3. WHERE LAPPING IS SPECIFIED, LAP ALL PURLINS AND GIRTS THE GREATER OF 15% OF SPAN OR 900mm.

4. WHERE NOT SPECIFIED ON THE DRAWINGS. PROVIDE BRIDGING BETWEEN PURLINS AND GIRTS AS REQUIRED BY MANUFACTURER.

5. BOLT 100 TO 250 SERIES PURLINS & GIRTS WITH STANDARD M12 GRADE 4.6 BOLTS. BOLT 300 SERIES PURLINS & GIRTS WITH M16 GRADE 4.6 BOLTS. ADOPT GRADE 8.8 BOLTS AS SPECIFICALLY NOTED ON PURLIN PLAN OR GIRT ELEVATIONS.

6. PROVIDE PURLIN CLEATS TO MANUFACTURER'S REQUIREMENTS. WHERE DISTANCE BETWEEN BOTTOM FLANGES OF PURLIN AND TOP OF RAFTER IS GREATER THAN 100mm, USE 75 x 75 x 8 EA CLEAT.

7. TRIM PENETRATIONS, HIPS, VALLEYS AND BARGE ENDS WITH PURLIN / GIRT SECTIONS THE SAME SIZE AS THE ROOF OR WALL MEMBERS.

8. ANY POINT LOADS APPLIED TO THE PURLINS SHALL BE APPROVED PRIOR TO PURLIN INSTALLATION AND APPLIED TO PURLIN WEB NOT FLANGE.

9. SERVICES SUPPORTED BY PURLINS MUST BE CONNECTED TO THE PURLIN WEB.

STEEL WALL FRAMING

1. ALL DESIGN, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS4600 COLD FORMED STEEL STRUCTURES CODE.

2. UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL WALL FRAMING SHALL BE DESIGNED BY THE MANUFACTURER AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND RELEVANT AUSTRALIAN STANDARDS. REFER TO GENERAL NOTES FOR DESIGN LOADS.

3. DESIGN ALL FRAMING TO CARRY THE DEAD LOADS OF ALL FRAMING MEMBERS, CLADDING, LININGS, FOLDING DOORS, SERVICES ETC. AS SHOWN ON THE ARCHITECTS AND OTHER CONSULTANT DRAWINGS.

4. OBTAIN ALL FRAMING DIMENSIONS FROM ARCHITECTURAL DRAWINGS.

5. DESIGN WALL FRAMING FOR VERTICAL AND LATERAL LOADS. PROVIDE SUFFICIENT BRACING TO RESIST THE FULL WIND LOAD EFFECTS FROM BOTH THE WALL AND ROOF OF THE BUILDING IN ALL DIRECTIONS.

6. IN ADDITION TO OTHER DESIGN LOADS, DESIGN ALL WALL FRAMING TO SUPPORT THE FOLLOWING LOADS:
   - UP TO TWO ROWS OF 300mm WIDE SHELVES. EACH ROW OF SHELVES SHALL BE CAPABLE OF SUPPORTING A VERTICAL LOAD OF 50Kg PER METRE LENGTH OF THE SHELF.
   - IMPACT LOAD OF 0.7kN (WORKING) APPLIED AT THE MID HEIGHT OF THE WALL.

7. IN ADDITION TO THE DEFLECTION LIMITS SPECIFIED IN THE RELEVANT AUSTRALIAN STANDARDS, WALL FRAMING SHALL BE DESIGNED TO ACHIEVE THE FOLLOWING OUT-OF-PLANE DEFLECTION LIMITS UNDER SERVICEABILITY LOADINGS:

ELEMENT	MAX DEFLECTION
FRAMED WALLS WITH BRITTLE FINISHES	SPAN/500
STUD	
STUD WALLS	SPAN/250/12mm MAX.

8. SUBMIT A DESIGN CERTIFICATE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, QUEENSLAND (RPEQ) TO CERTIFY THAT THE WALL FRAMING DESIGN IS IN ACCORDANCE WITH AS4600 FOR THE RELEVANT LOADS.

9. ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO DESIGN AND CERTIFY ANY ADDITIONAL SILL, HEAD AND ADDITIONAL FRAMING MEMBERS THAT ARE NOT SHOWN ON THESE DRAWINGS.

10. PROVIDE MOVEMENT JOINTS IN WALL FRAMING TO MATCH SLAB MOVEMENT JOINTS. THE JOINT MAY NEED TO BE REFLECTED THROUGH CEILING FINISHES.

TIMBER

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 1720 AND AS 1684.

2. UNLESS OTHERWISE SHOWN ALL TIMBER SHALL BE MINIMUM STRESS GRADE F7 FULLY SEASONED.

3. EXTERNALLY EXPOSED TIMBER SHALL BE MINIMUM DURABILITY CLASS 2.

4. HANDLE AND STORE THE TIMBER SO AS TO NOT OVER STRESS THE MEMBERS AT ANY TIME. STORE TIMBER DELIVERED TO THE SITE HORIZONTALLY, NOT LESS THAN 150mm OFF THE GROUND, EVENLY SUPPORTED, WELL VENTILATED AND PROTECTED FROM THE ELEMENTS.

5. ALL NUTS, BOLTS, WASHERS OR ANY OTHER TIMBER CONNECTORS TO BE HOT DIP GALVANISED U.N.O. ALL BOLTS SHALL BE 12mm DIA U.N.O. DRILLED HOLES TO BOLTS SHALL BE 10% GREATER THAN BOLT DIAMETER. MINIMUM FIXING CRS AND END/ EDGE DISTANCES TO AS 1720.1.

6. WITHIN 250mm OF ANY CONNECTION TIMBER TO BE FREE OF ALL KNOTS, SPLITS, GUM VEINS OR ANY OTHERS DEFECTS.

7. IN ALL BOLTED TIMBER STRUCTURAL JOINTS WHERE STEEL PLATE DOES NOT PROTECT TIMBER, PROVIDE GALVANISED WASHERS AS FOLLOWS :

WASHER SIZE (mm)			
BOLT	THICKNESS	MIN. DIAMETER FOR ROUND WASHERS	MIN. SIDE LENGTH FOR SQUARE WASHERS
M10	2.5	45	40
M12	3.0	55	50
M16	4.0	65	57
M20	5.0	75	65

8. REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF ALL SECONDARY ROOF FRAMING INCLUDING FIXING OF SHEETING, FLASHINGS AND CAPPINGS IN ACCORDANCE WITH AS 1684.

9. POSISTRUT SIZES ARE INDICATIVE ONLY. POSISTRUT IS A PROPRIETARY SYSTEM AND SHALL BE DESIGNED BY THE MANUFACTURER FOR THE SPECIFIC LOCATION

10. PROVIDE F8 NAILING PLATES TO STEEL BEAMS WHERE REQUIRED CONNECTED WITH M10 BOLTS AT 1200 CRS. SIZE TO SUIT JOIST HANGER NAILING REQUIREMENTS.

11. REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF ALL SECONDARY ROOF FRAMING INCLUDING FIXING OF SHEETING, FLASHING AND CAPPING IN ACCORDANCE WITH AS 1684.

12. PROVIDE ROOF BRACING IN ACCORDANCE WITH AS 4440.

13. PROPRIETARY ROOF TRUSSES :
    - THE ROOF PLAN SHOWS THE PROPOSED LAYOUT AND SUPPORT POINTS. DO NOT VARY THIS LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
    - DESIGN OF THE PROPRIETARY ROOF TRUSSES, CONNECTIONS AND ANCILLARY MEMBERS IS THE RESPONSIBILITY OF THE TRADE CONTRACTOR. SUBMIT COMPUTATIONS FOR THESE ELEMENTS TO THE SUPERINTENDENT AND DO NOT BEGIN FABRICATION UNTIL APPROVED.
    - DESIGN WIND SPEED FOR TIMBER ROOF STRUCTURE 57 m/s (ULTIMATE STRENGTH)
    - PROVIDE ADDITIONAL MEMBERS REQUIRED FOR THE SUPPORT OF TRUSSES OTHER THAN THOSE SHOWN DESIGNED IN ACCORDANCE WITH AS 1720. COMPUTATIONS PROVIDED FOR ROOF TRUSSES SHALL INCLUDE COMPUTATIONS FOR THE ADDITIONAL MEMBERS. CEILING DIAPHRAGM ACTION IS REQUIRED TO DISTRIBUTE LOADS TO BRACING WALLS. DIRECTLY FIX CEILING BATTENS TO THE TRUSSES OR RAFTERS. HANGING BRACKETS WILL NOT BE PERMITTED UNLESS THE MANUFACTURER CERTIFIES THAT THE BRACKET WILL NOT AFFECT THE CEILING DIAPHRAGM.

14. PROVIDE A STRUCTURAL CERTIFICATION PREPARED BY A REGISTERED PROFESSIONAL ENGINEER, QUEENSLAND (RPEQ), STATING COMPLIANCE OF THE DESIGN WITH RELEVANT CODES AND REGULATIONS, AND THE DESIGN CRITERIA SPECIFIED.

PLYWOOD

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS2269 AND THE RECOMMENDATIONS OF THE PLYWOOD ASSOCIATION OF AUSTRALIA.

2. PLYWOOD FOR BRACING WALLS SHALL BE PINUS PLYWOOD F8 STRESS GRADE STRUCTURAL PLYWOOD WITH D-D FACE GRADE PLY.

3. PLYWOOD FOR ROOF PANELLING SHALL BE PINUS PLYWOOD F11 STRESS GRADE STRUCTURAL PLYWOOD WITH D FACE PLY UNDER THE ROOF SHEETING AND VENEER FACE PLY TO THE INTERIOR.

4. PLYWOOD DELIVERED TO THE SITE SHALL BE STACKED HORIZONTALLY AND ON A LEVEL SURFACE, NOT LESS THAN 150mm OFF THE GROUND SUPPORTED AT EACH END AND IN THE MIDDLE, WELL VENTILATED AND PROTECTED FROM THE ELEMENTS.

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS
TENDER
NOT FOR CONSTRUCTION

CLIENT
designtek

calibre
 calibregroup.com

PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
STANDARD NOTES - SHEET 2

PROJECT No. **20-000180** | DRAWING No. **S1.02** | REVISION **1**

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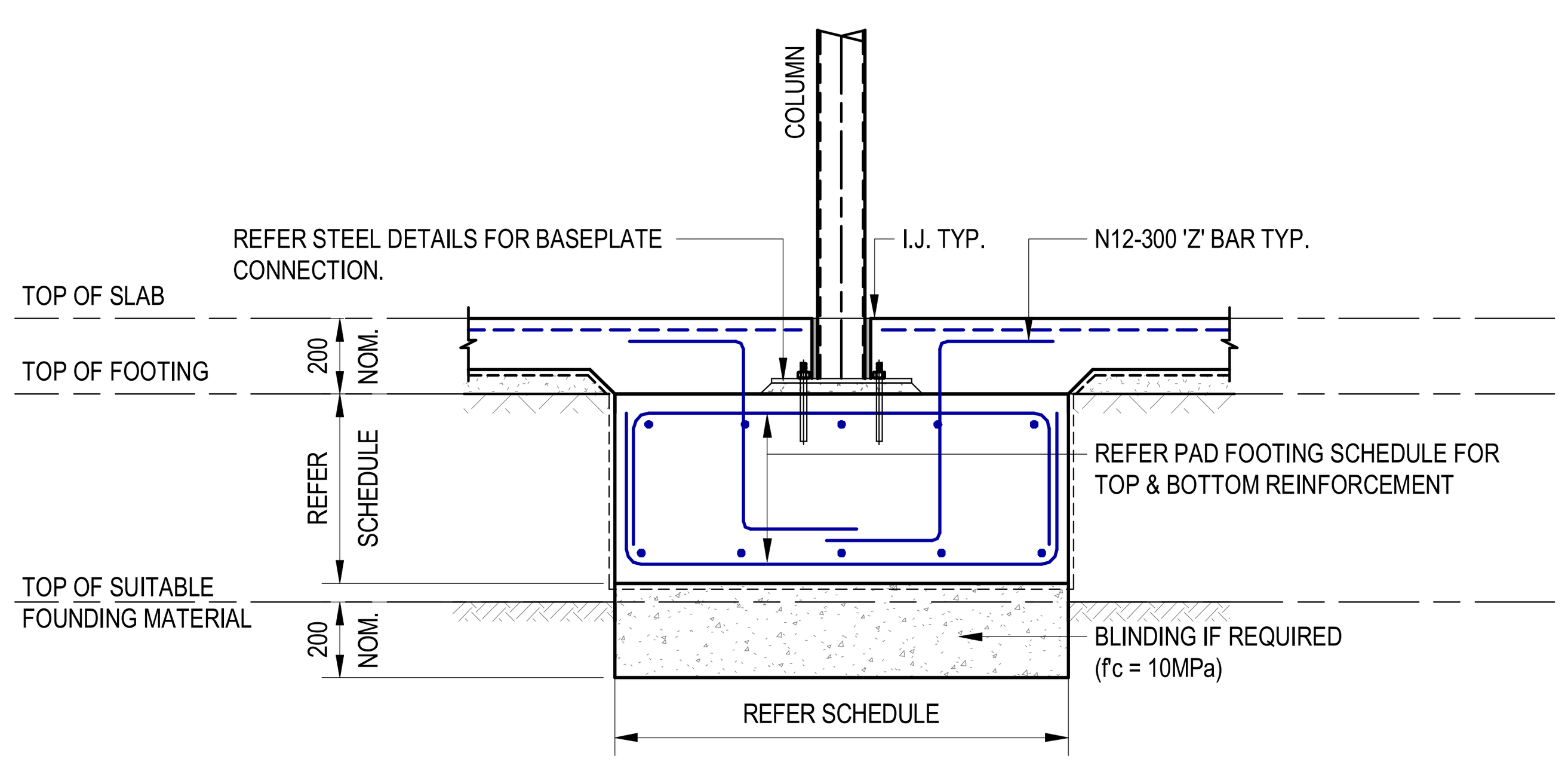
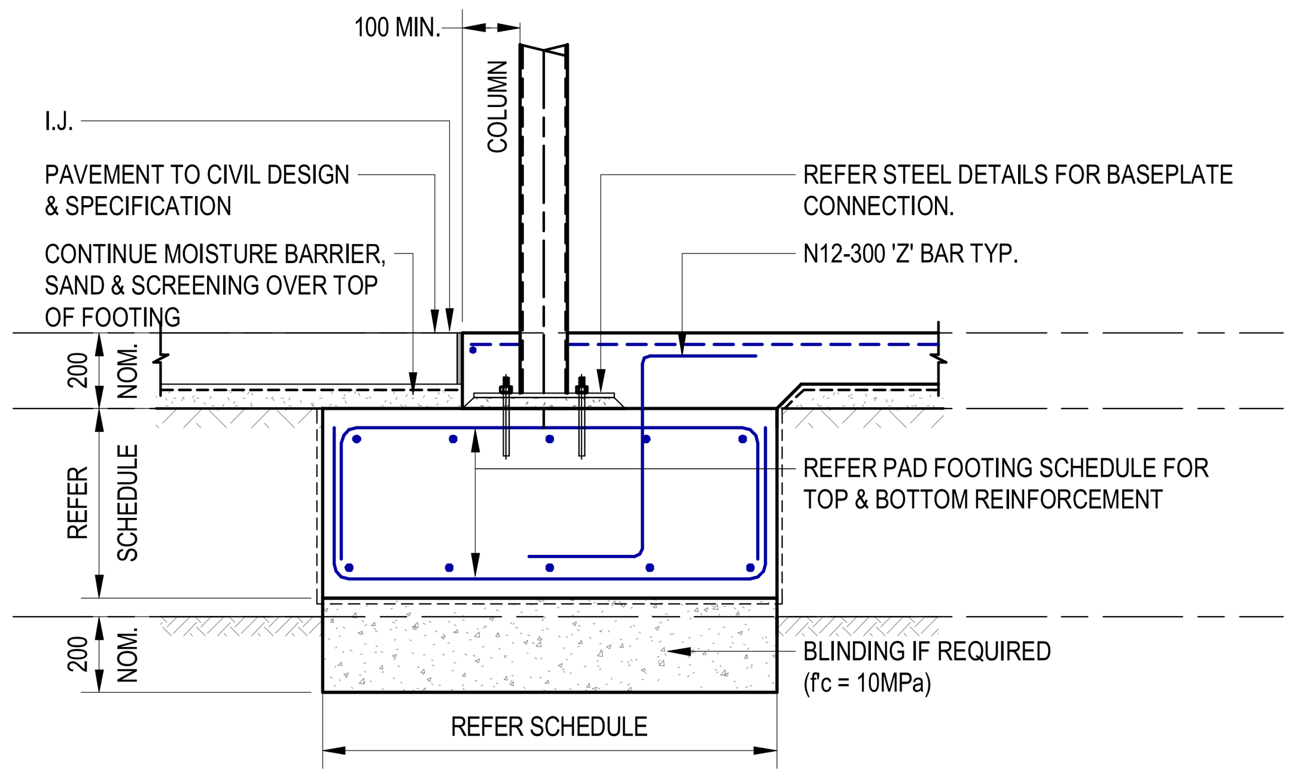


TYPICAL PAD FOOTING DETAIL - STEEL COLUMN
SCALE 1:20



TYPICAL PAD FOOTING AT SLAB EDGE DETAIL - STEEL COLUMN
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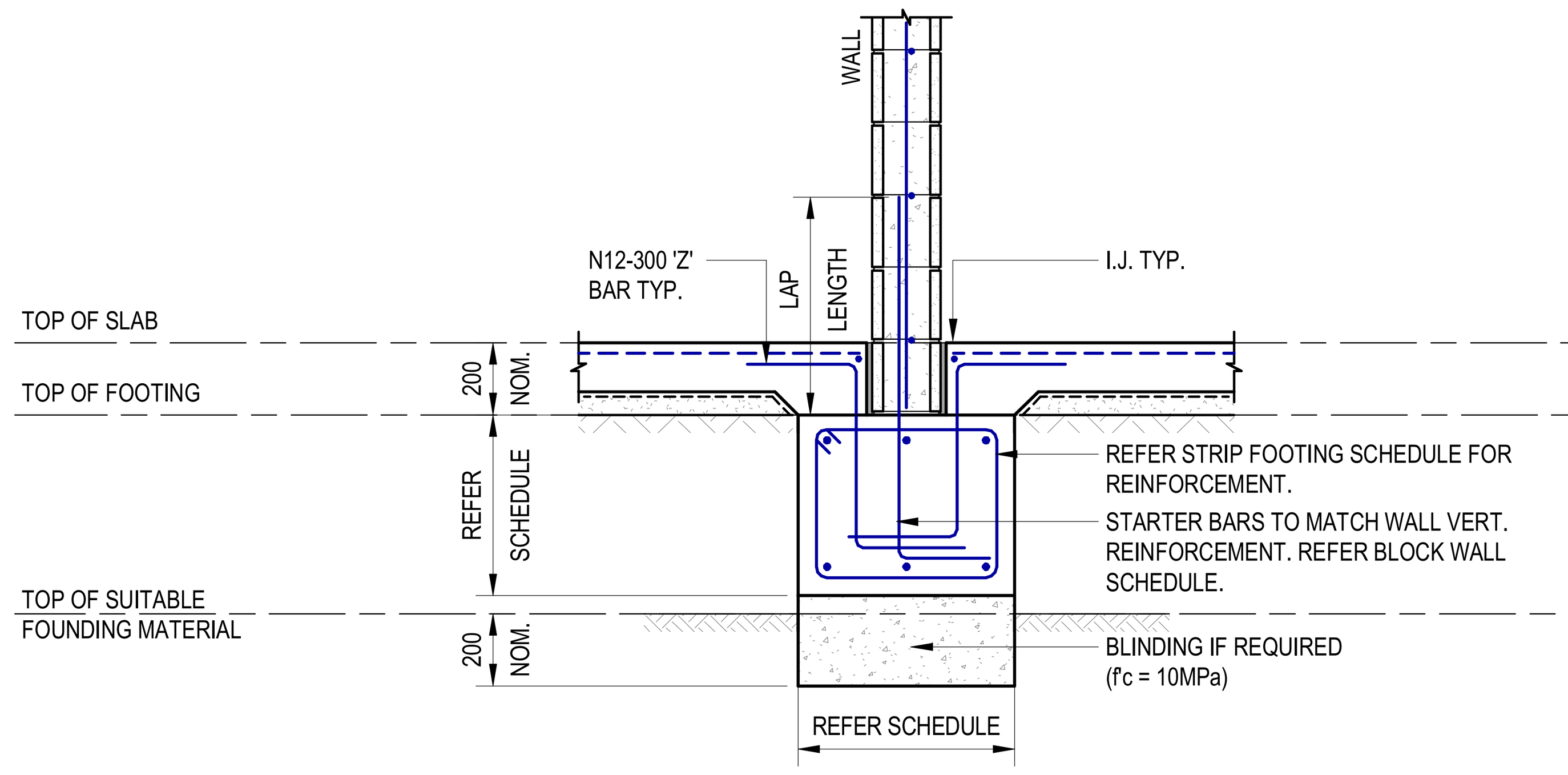

TYPICAL STRIP FOOTING DETAIL - BLOCK WALL
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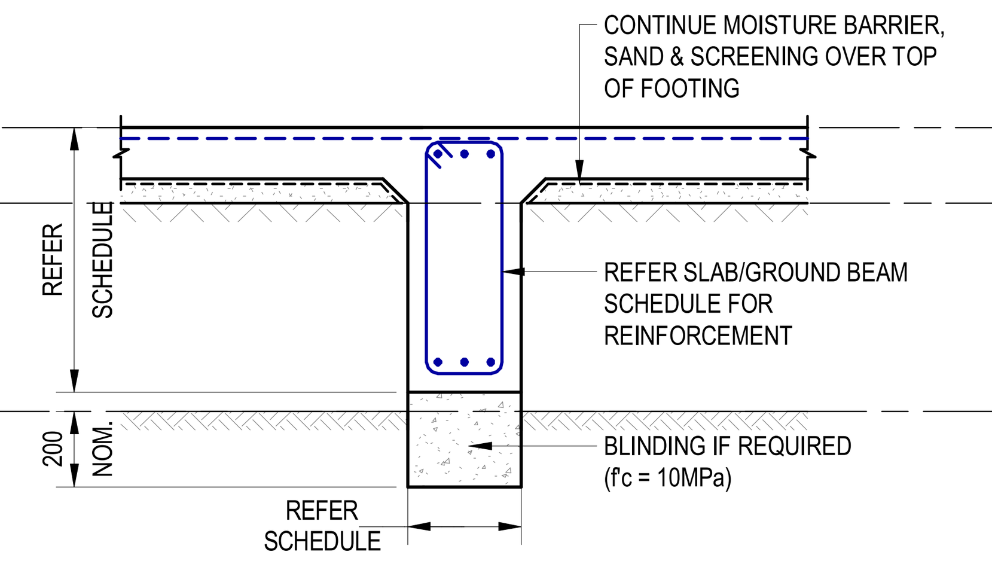

TYPICAL INTERNAL BEAM (IB) DETAIL
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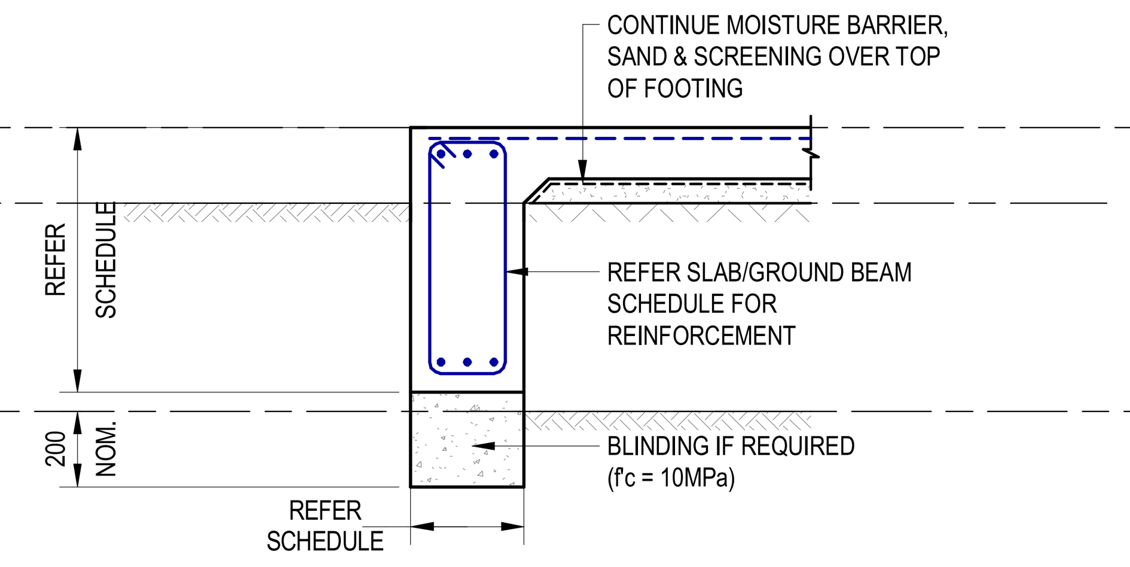

TYPICAL EXTERNAL BEAM (EB) DETAIL
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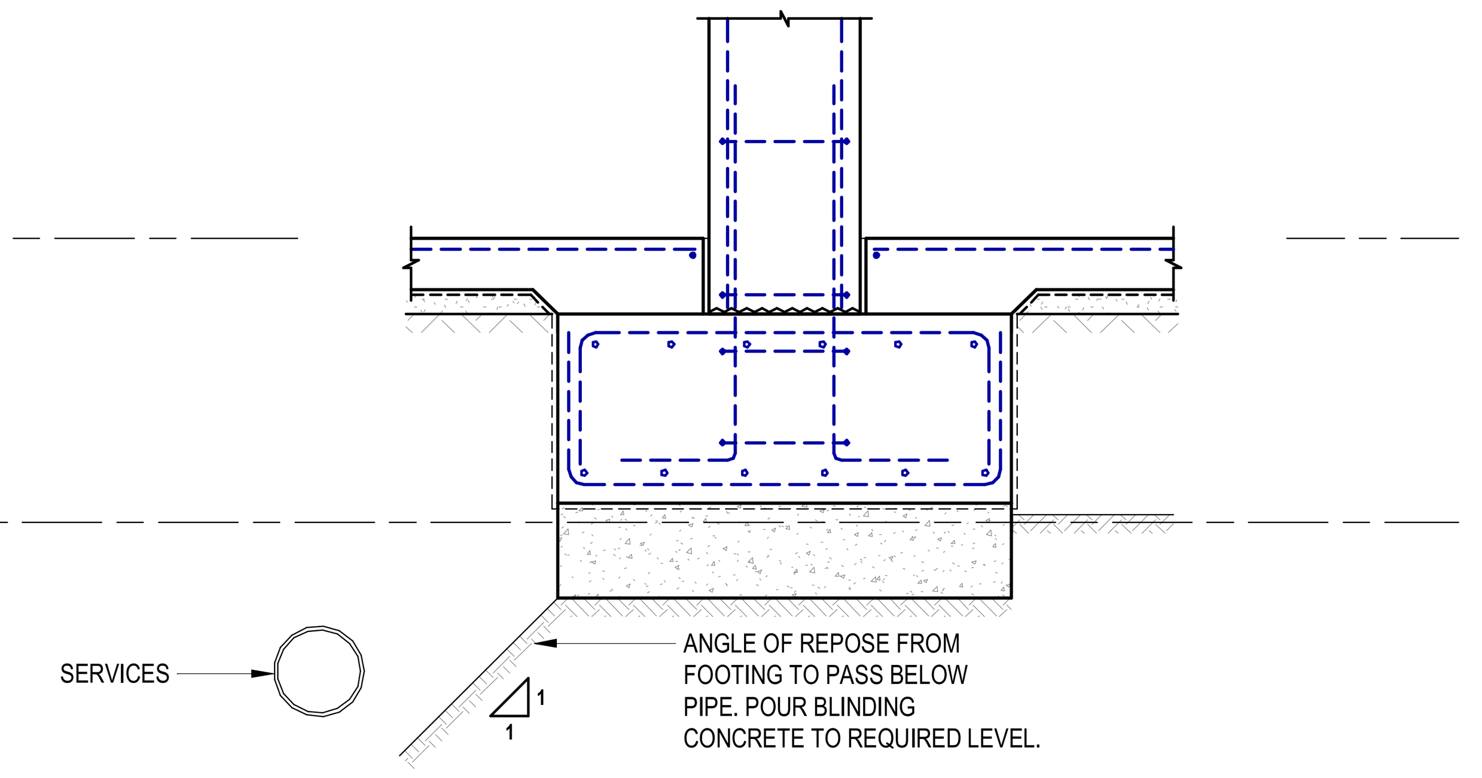

TYPICAL FOOTING AT SERVICES LOCATION DETAIL
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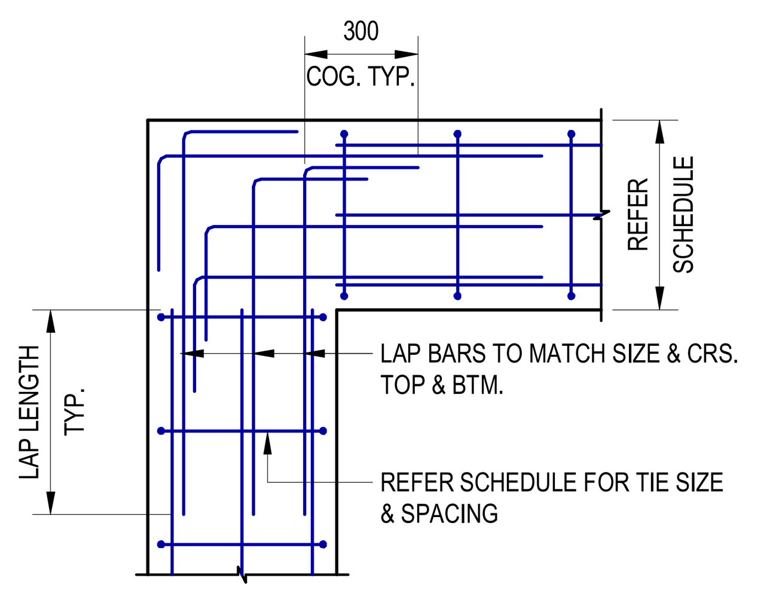
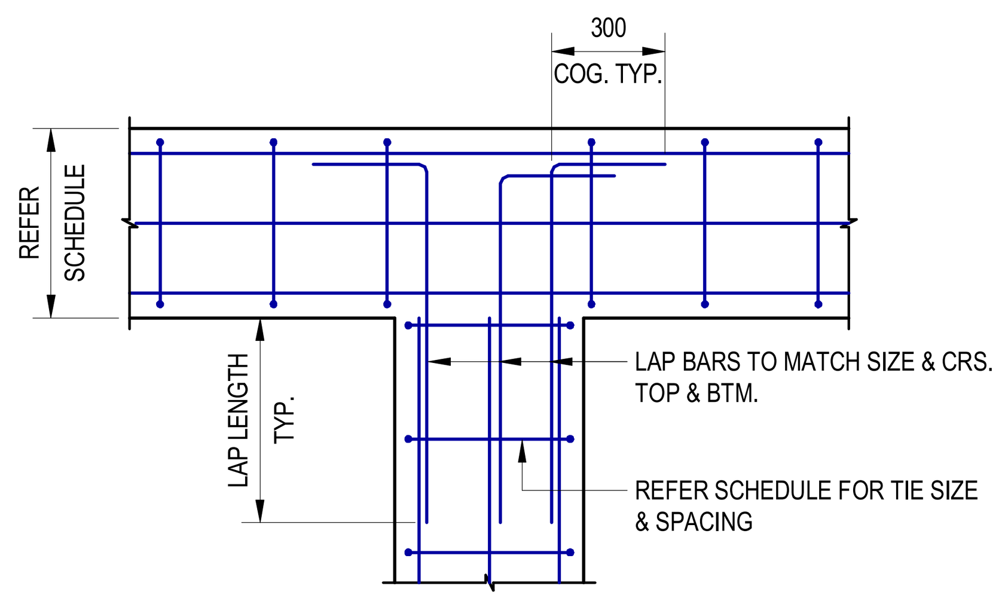


TYPICAL FOOTING & IB/EB BEAM CORNER DETAIL
SCALE 1:20



TYPICAL FOOTING & IB/EB BEAM INTERSECTION DETAIL
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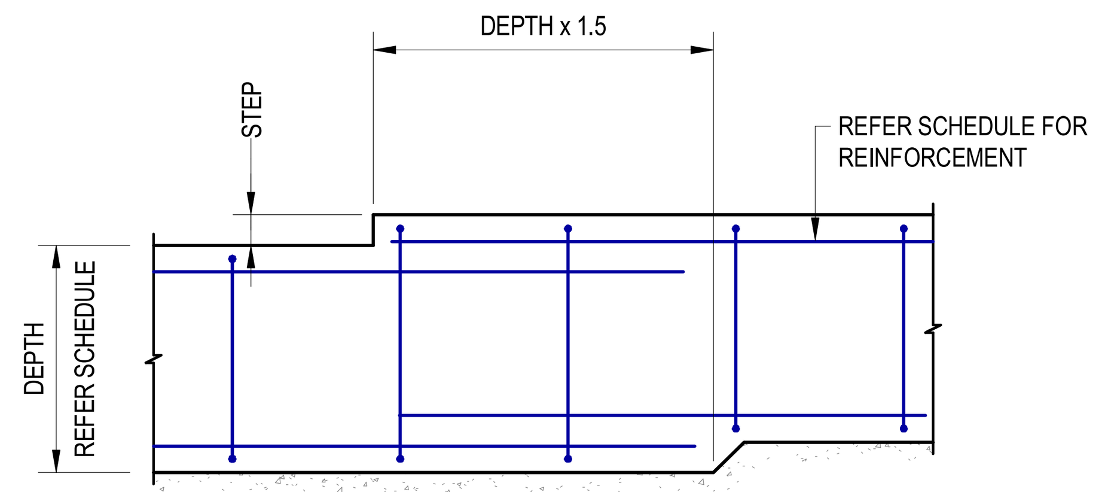
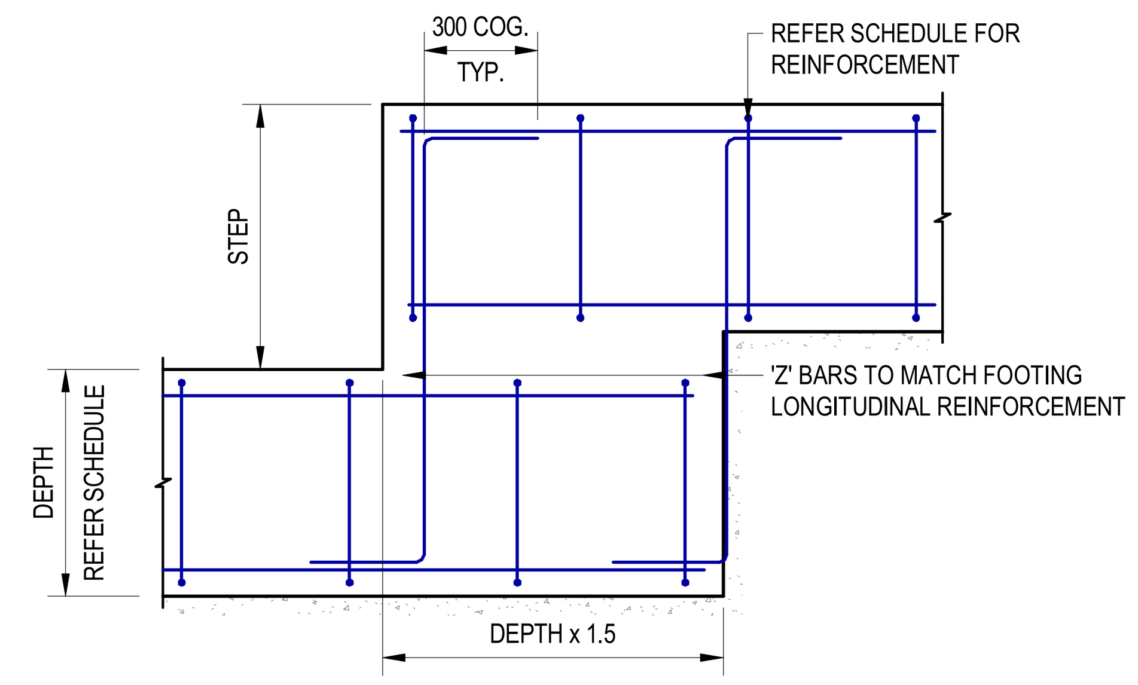


TYPICAL FOOTING & IB/EB BEAM STEP DETAIL (LESS THAN 100mm))
SCALE 1:20



TYPICAL FOOTING & IB/EB BEAM STEP DETAIL (GREATER THAN 100mm)
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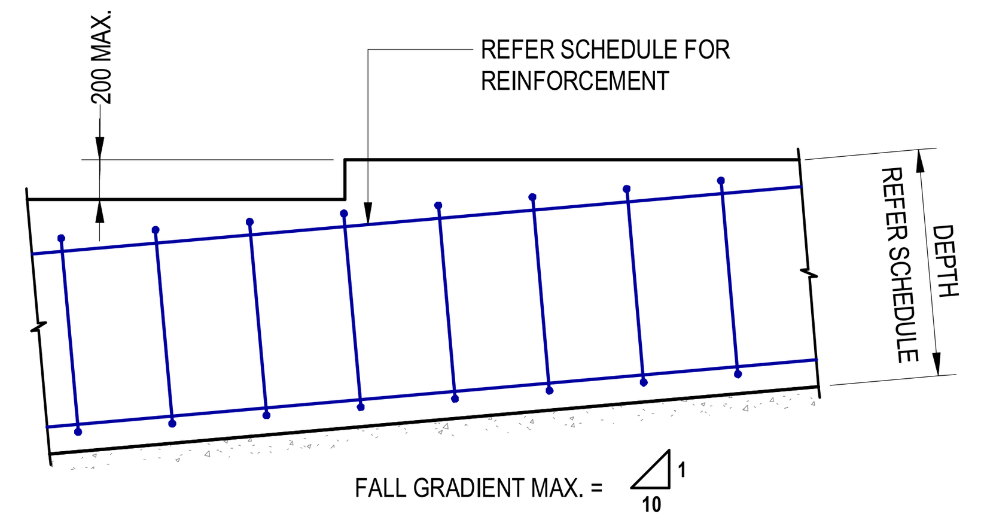
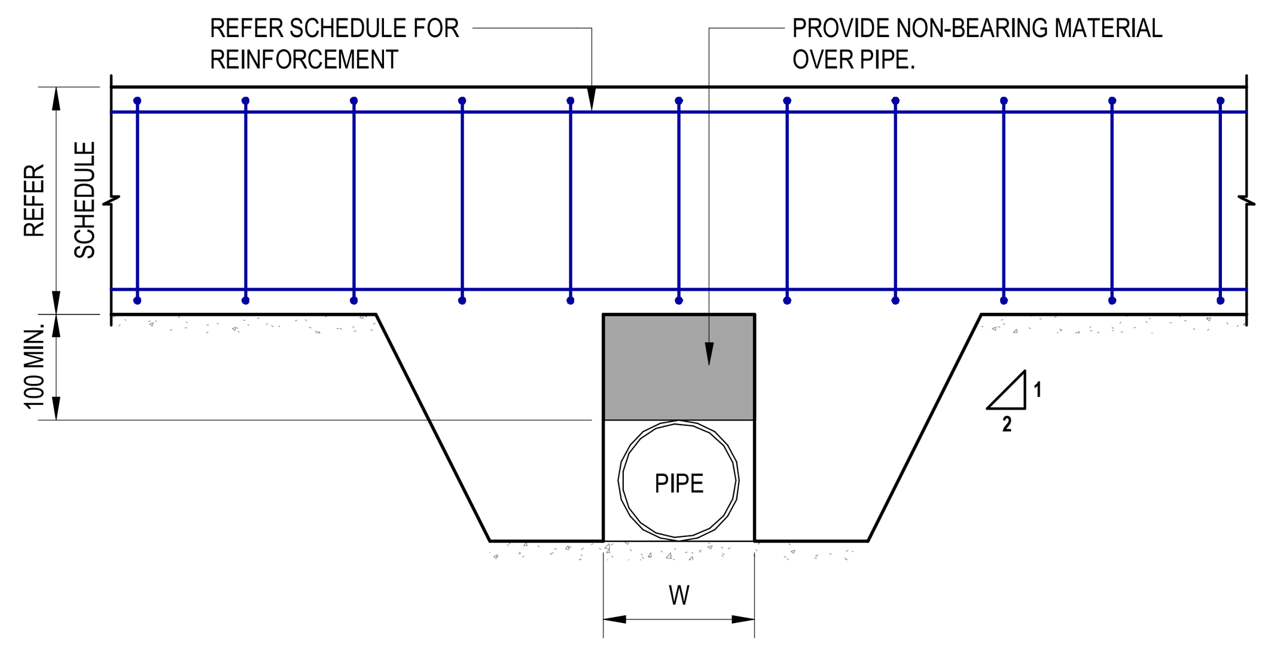


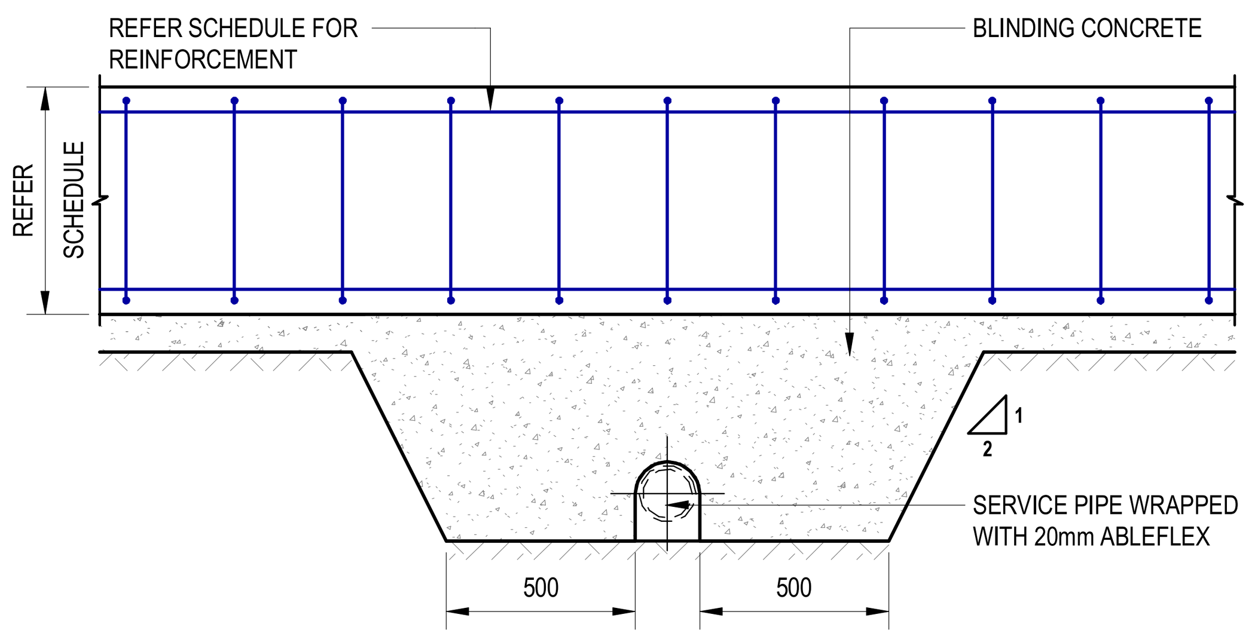
TYPICAL SLOPED FOOTING DETAIL
SCALE 1:20



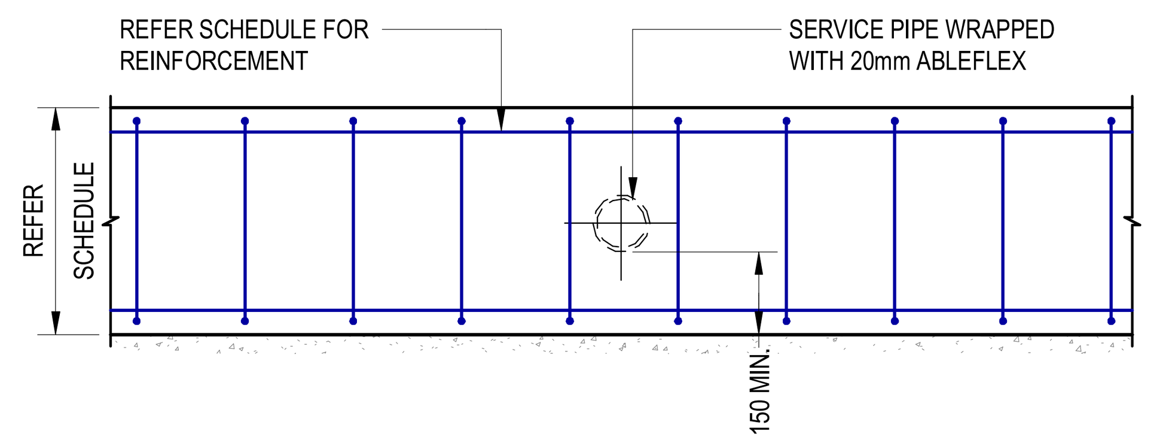
TYPICAL FOOTING OVER EXISTING PIPE DETAIL
SCALE 1:20

NOTE:

1. FOR 'W' GREATER THAN 400 THE ENGINEER IS TO BE NOTIFIED FOR POSSIBLE FOOTING RE-DESIGN.
2. WHERE FOUNDING MATERIAL IS ROCK REFER ENGINEER.



TYPICAL FOOTING OVER EXISTING PIPE DETAIL
SCALE 1:20



TYPICAL FOOTING OVER EXISTING PIPE DETAIL
SCALE 1:20

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
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STATUS
TENDER
NOT FOR CONSTRUCTION

CLIENT
designtek

calibre
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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
TYPICAL FOOTING DETAILS - SHEET 1

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.21	1

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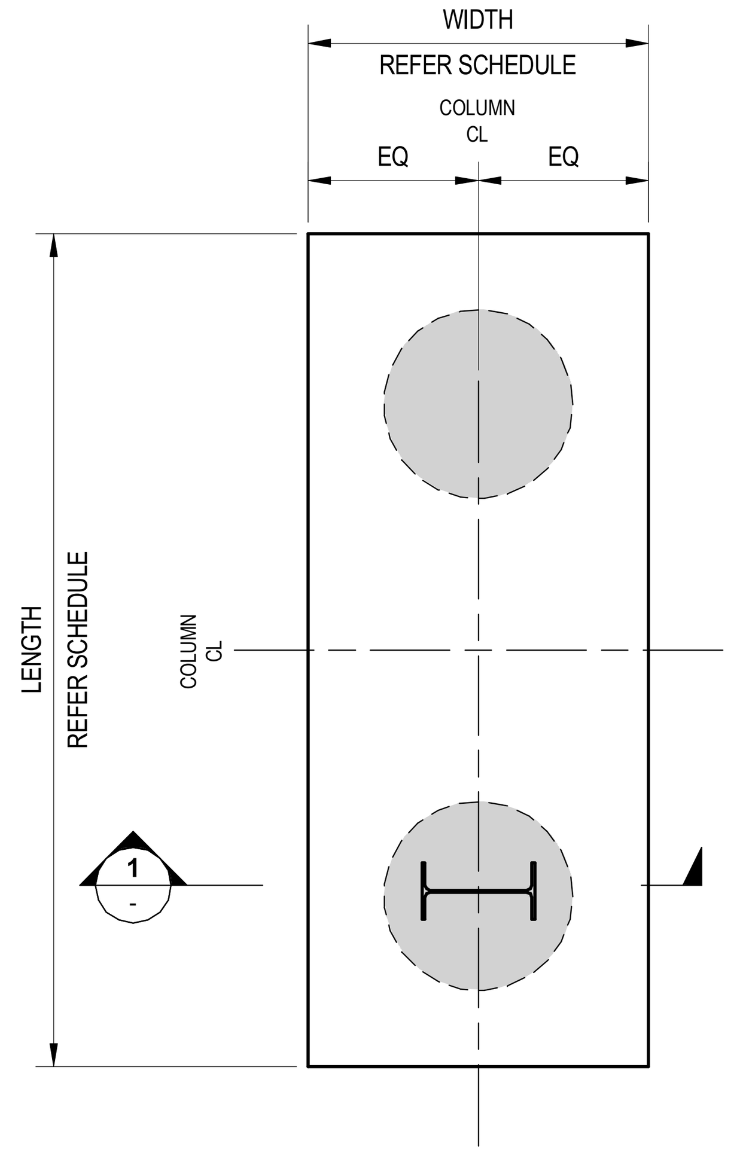
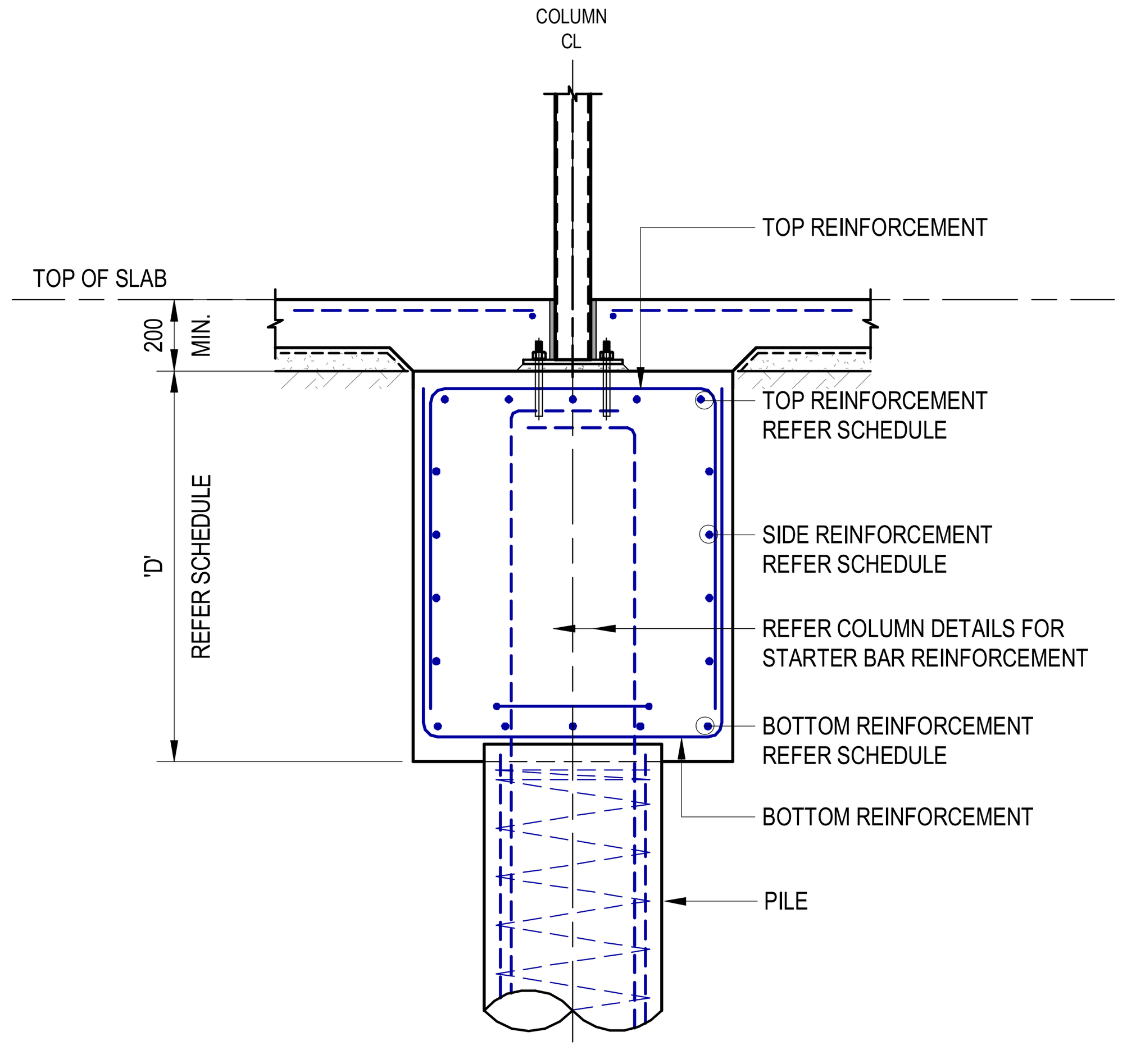


PLAN

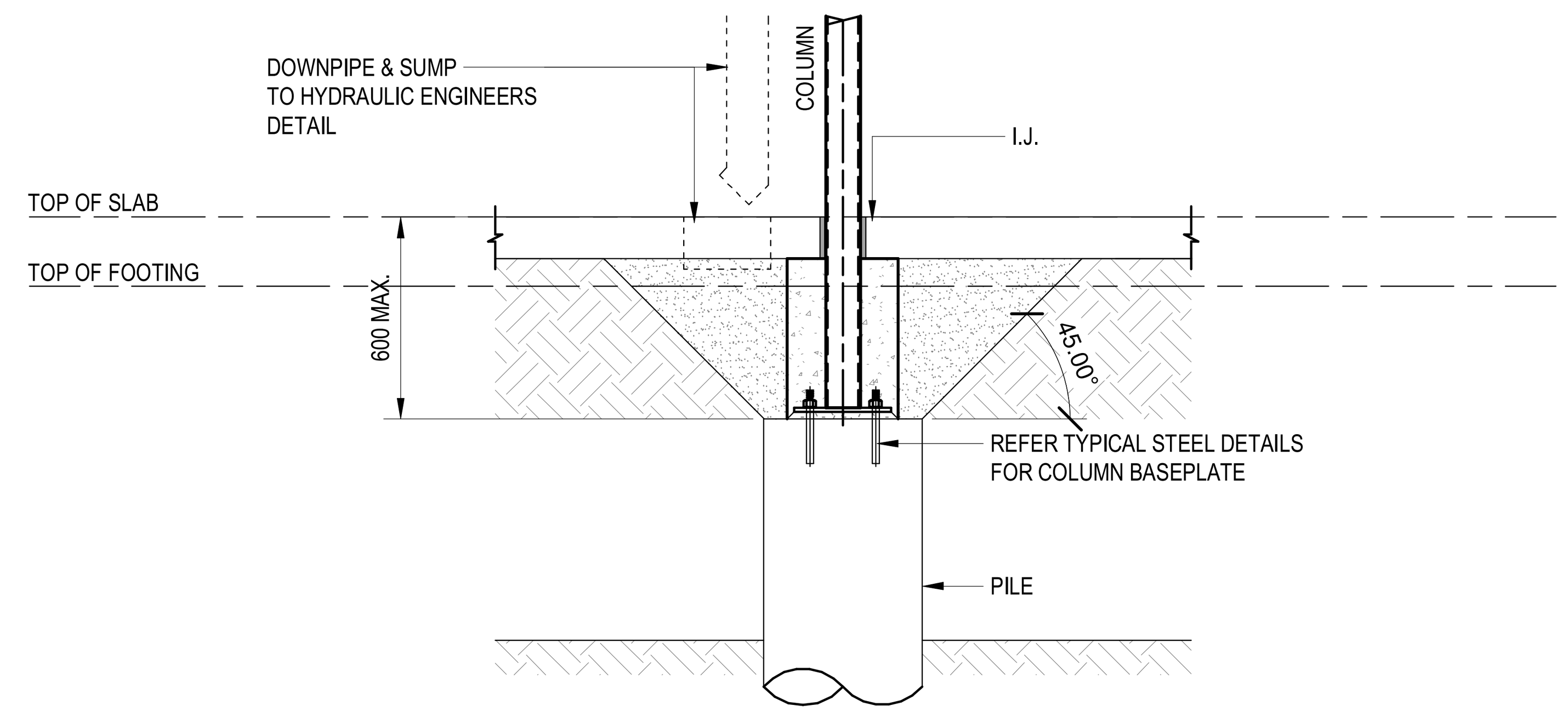
TYPICAL PILE CAP DETAIL - 2 PILE

SCALE 1:20



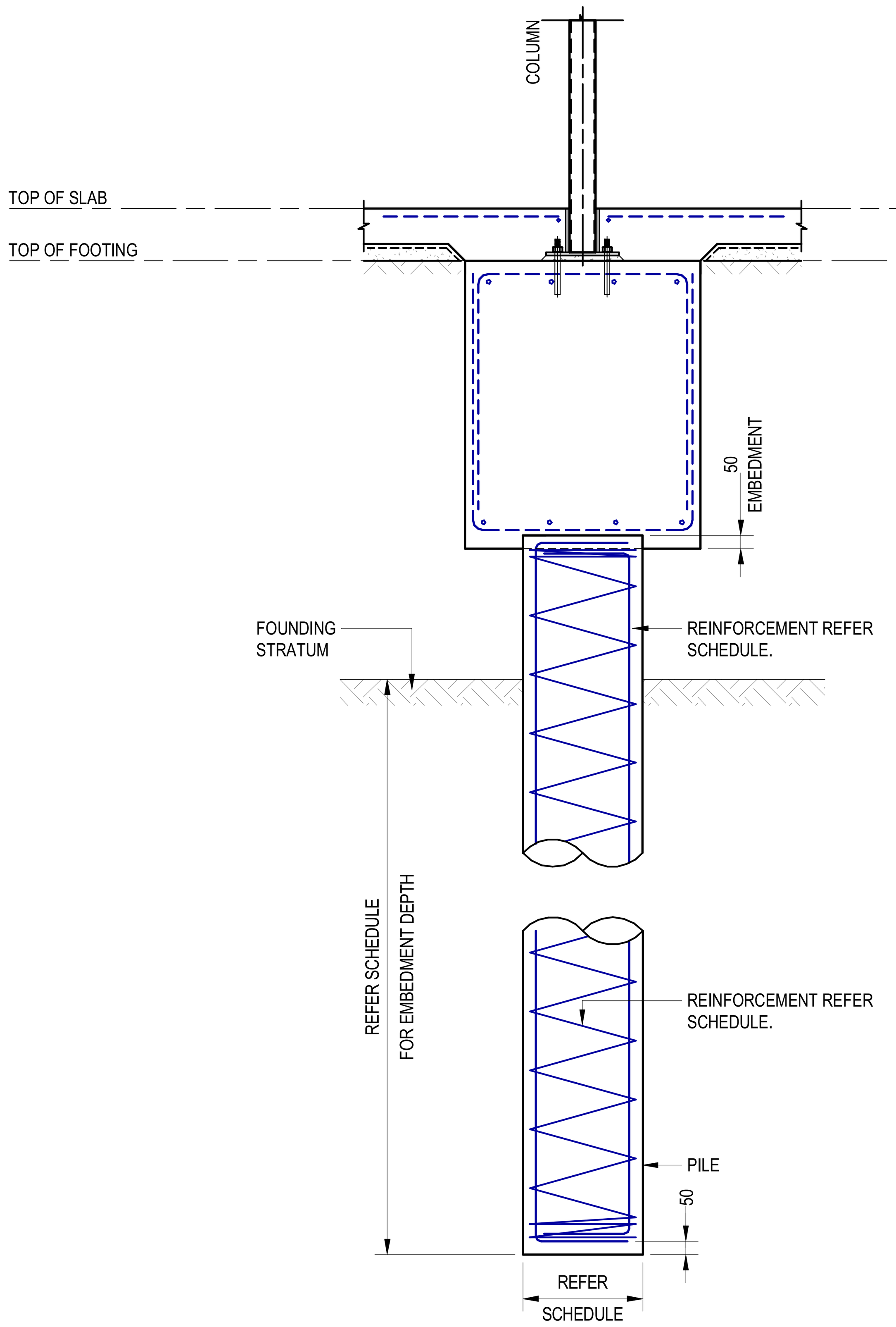
SECTION 1

SCALE 1:20



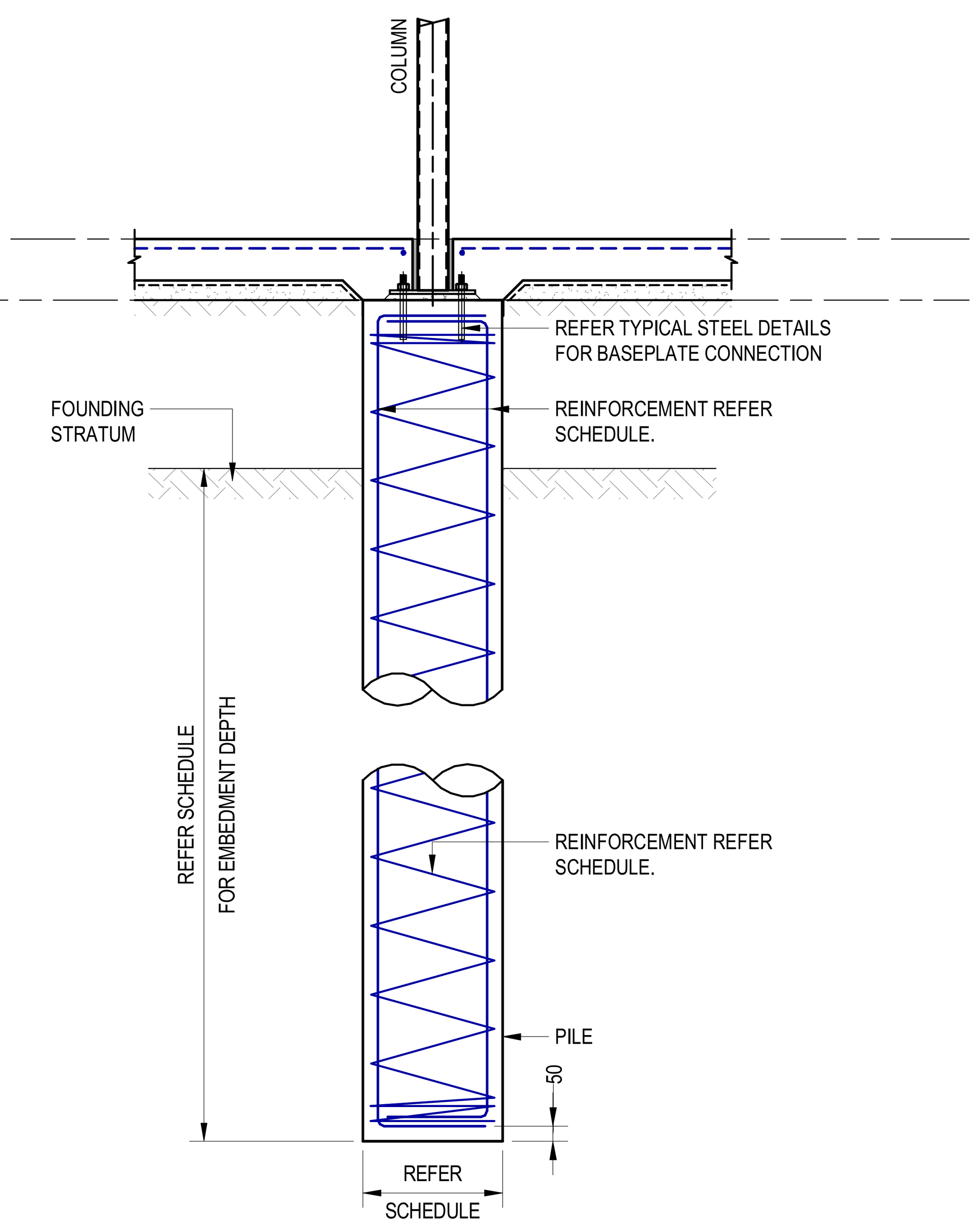
TYPICAL PILE DETAIL AT DOWNPIPE SUMP LOCATION

SCALE 1:20



TYPICAL PILE DETAIL - TO PILE CAP & GROUND BEAM

SCALE 1:20



TYPICAL PILE DETAIL - STEEL COLUMN

SCALE 1:20

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS

TENDER

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PROJECT

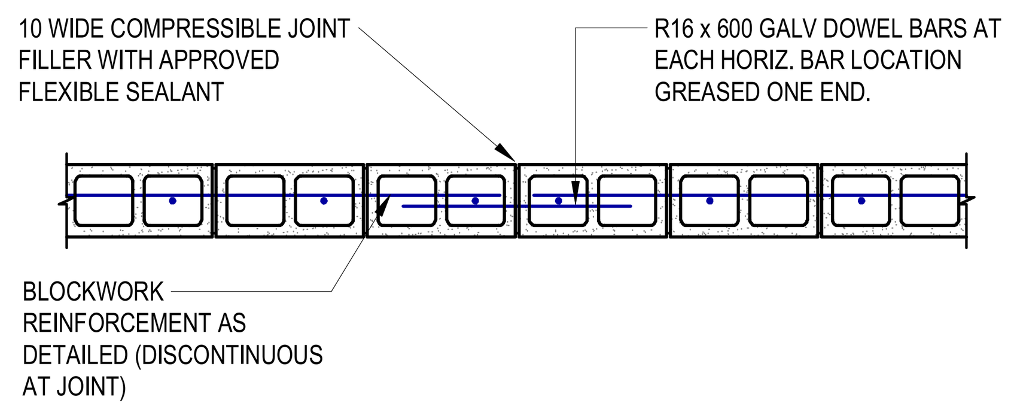
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

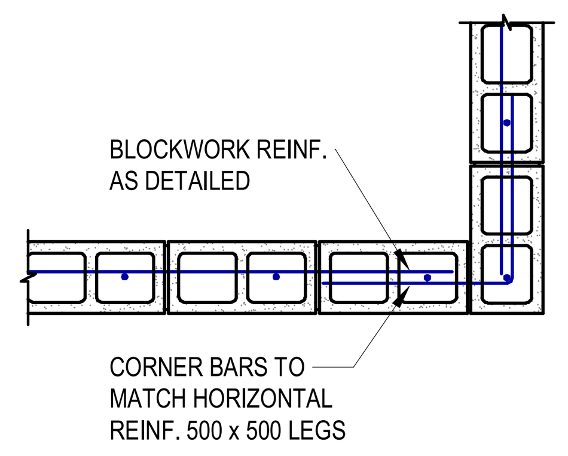
DRAWING TITLE

TYPICAL FOOTING DETAILS - SHEET 2

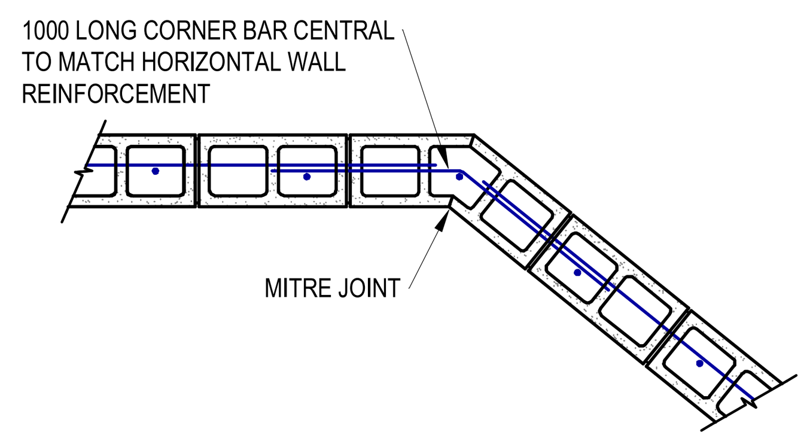
PROJECT No.	DRAWING No.	REVISION
20-000180	S1.22	1



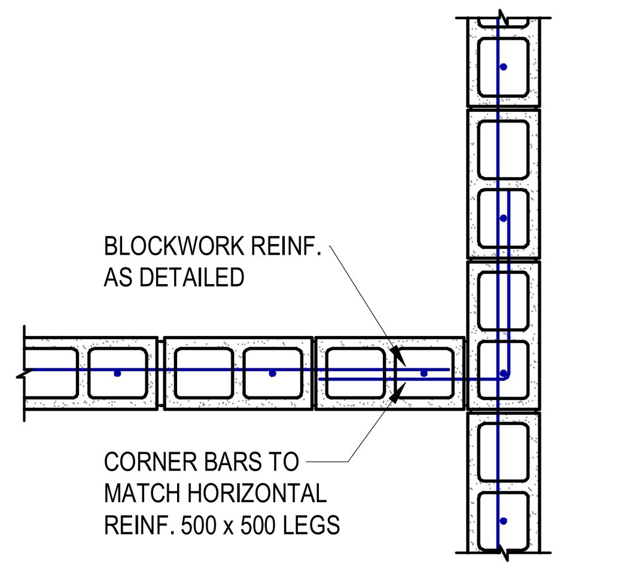
TYPICAL BLOCK CONTROL JOINT (BCJ) DETAIL FOR REINFORCED BLOCK
SCALE 1:20



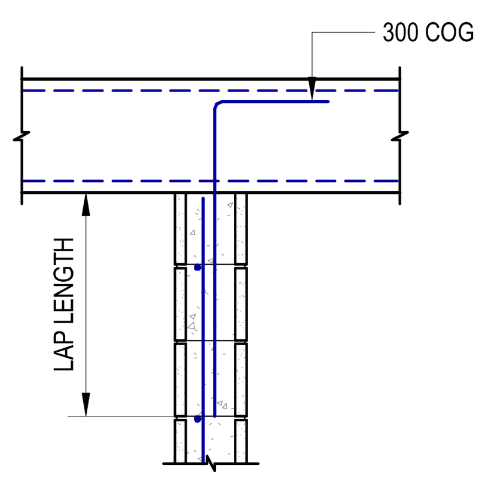
TYPICAL CORNER DETAIL
SCALE 1:20



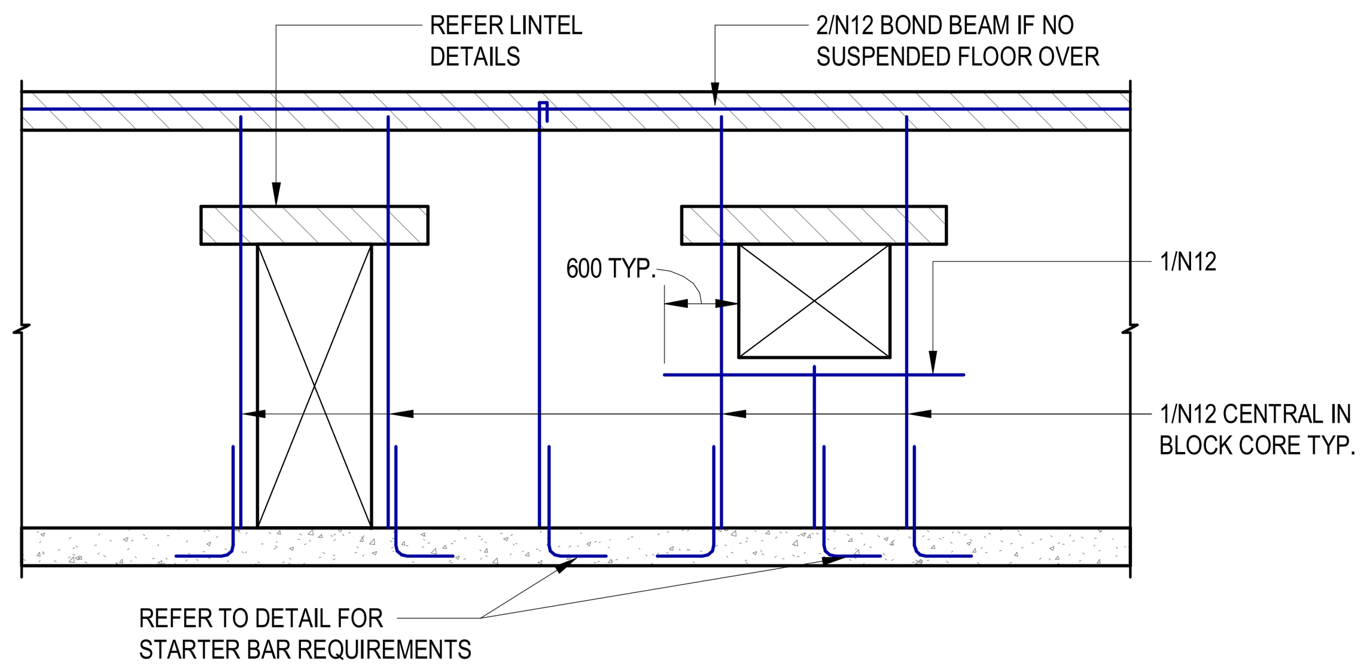
TYPICAL BLOCKWORK CORNER DETAIL (MITRE JOINT)
SCALE 1:20



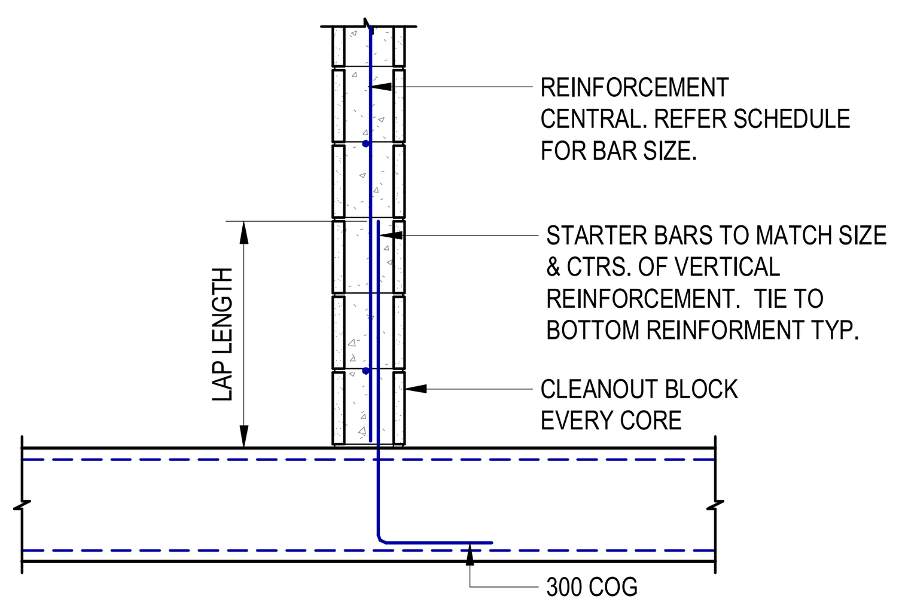
TYPICAL BLOCKWORK INTERSECTION DETAIL
SCALE 1:20



TYPICAL LOADING BEARING BLOCKWORK TO SLAB TERMINATION DETAIL
SCALE 1:20

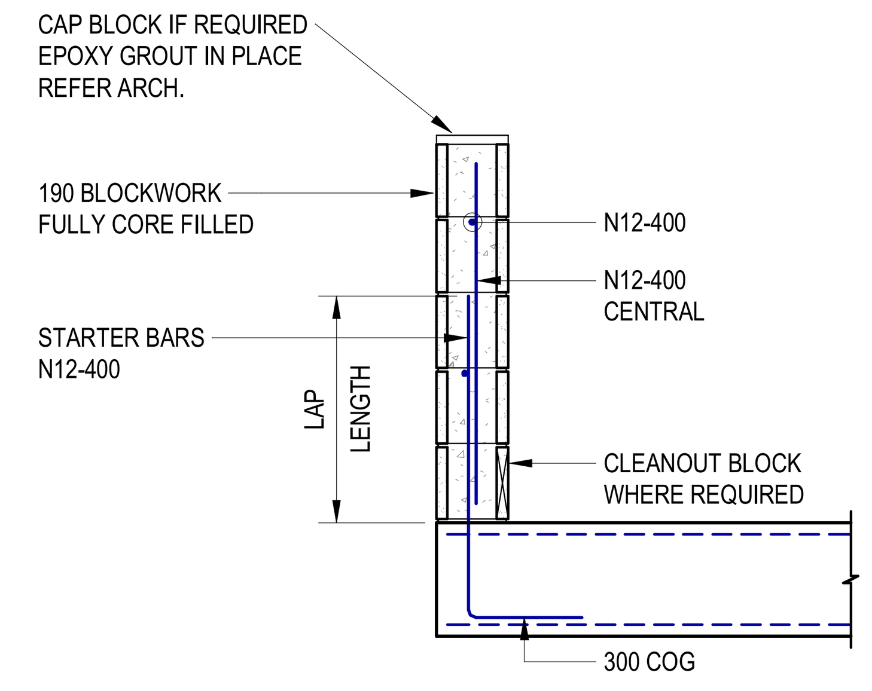


TYPICAL REINFORCED BLOCKWALL ELEVATION
SCALE 1:20

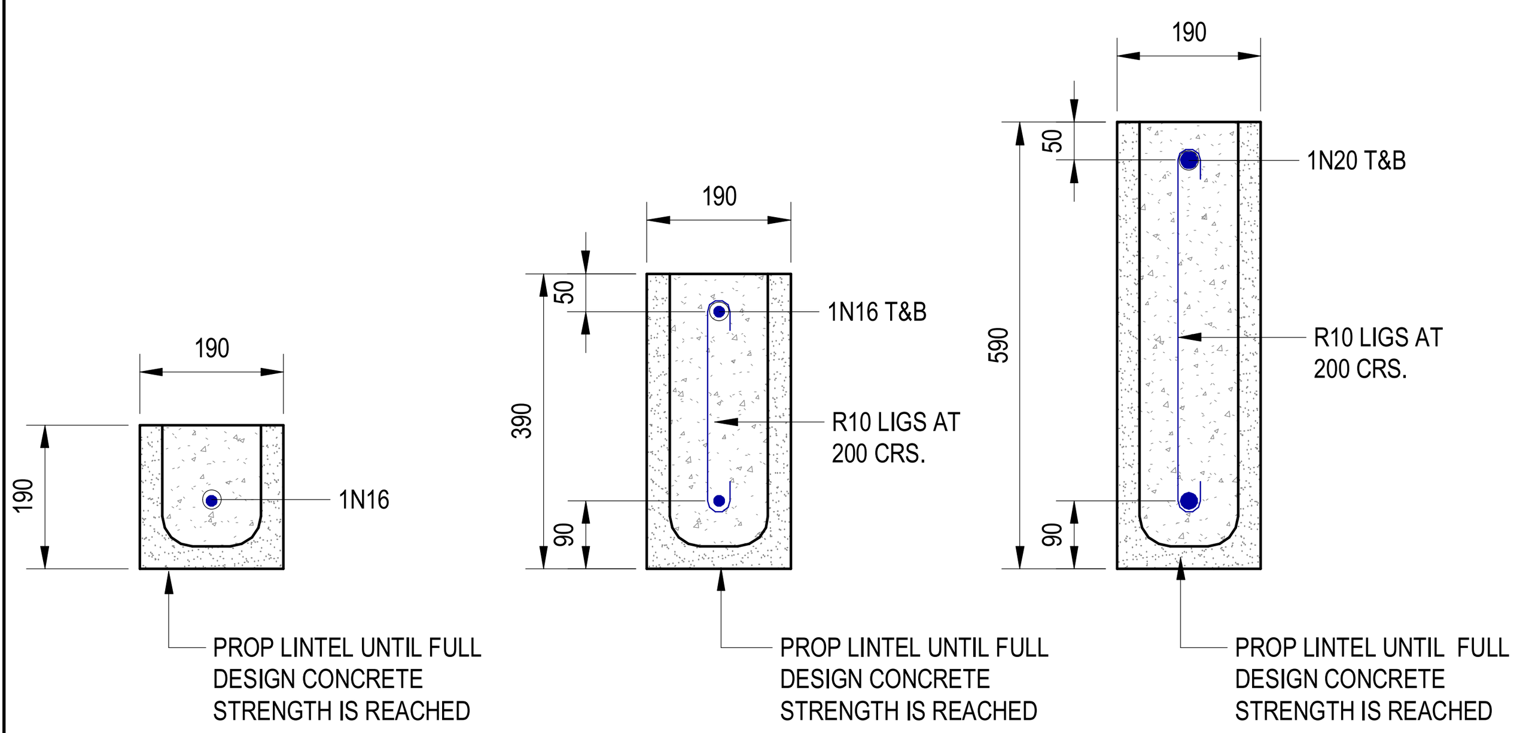


TYPICAL LOAD-BEARING BLOCKWORK STARTER DETAIL
SCALE 1:20

NOTE:
PROVIDE CONTROL JOINTS @ 6m CTRS MAX. REFER TYPICAL BCJ DETAIL.



TYPICAL BLOCKWORK UPSTAND/BALUSTRADE DETAIL
SCALE 1:20

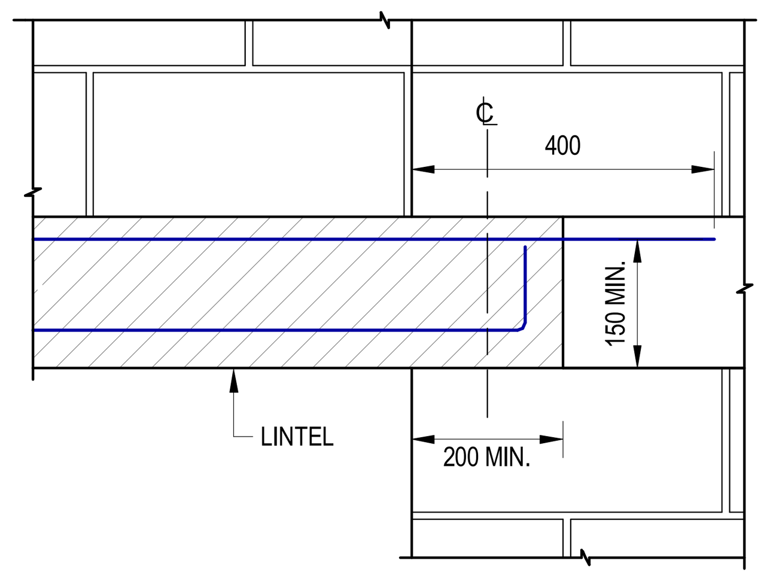


TYPE 1
MAX SPAN = < 1000
S.W.L. =15kN/m

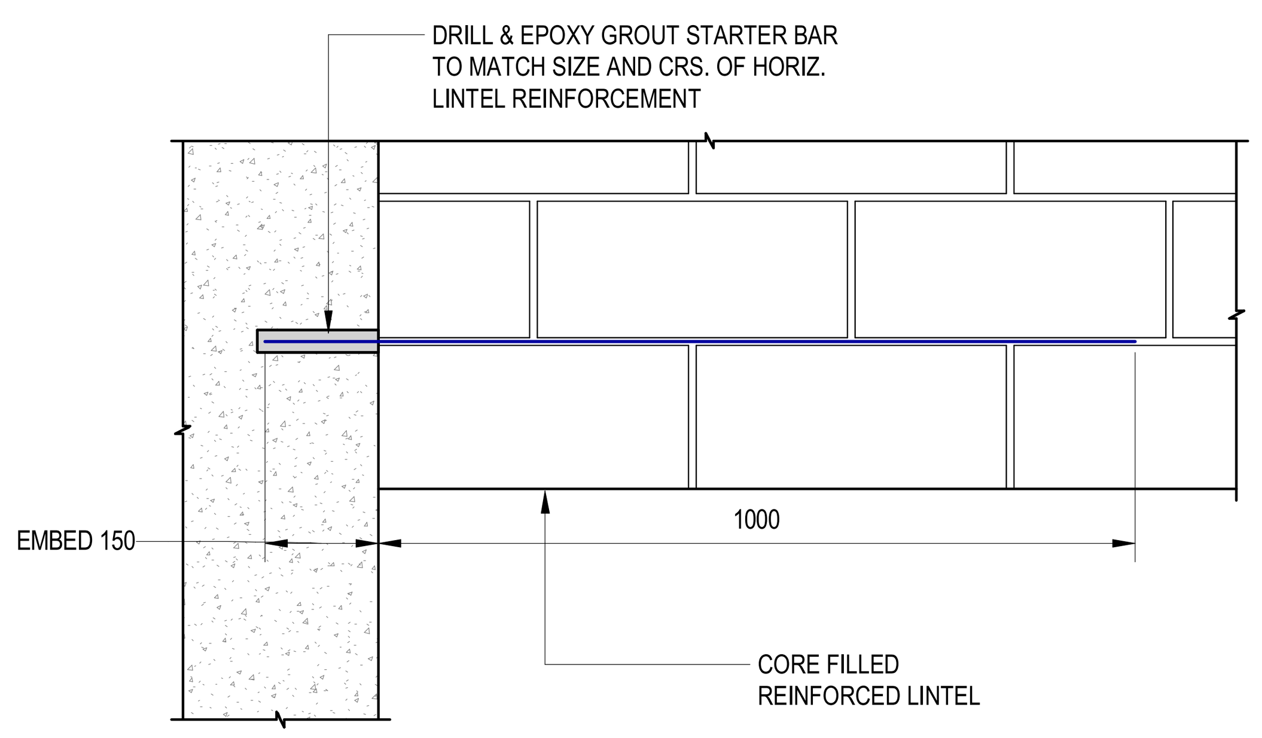
TYPE 2
MAX SPAN = > 1000 & < 2500
S.W.L. = 20kN/m

TYPE 3
MAX SPAN = > 2500 & < 3600
S.W.L. = 20kN/m

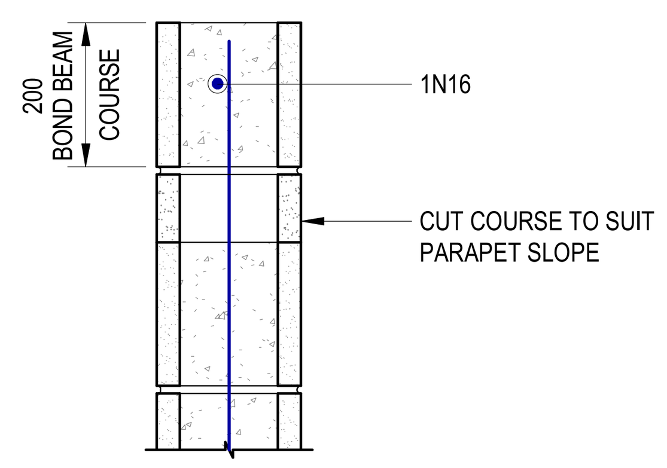
TYPICAL BLOCK LINTELS DETAILS
SCALE 1:10



TYPICAL LINTEL END DETAIL
SCALE 1:10

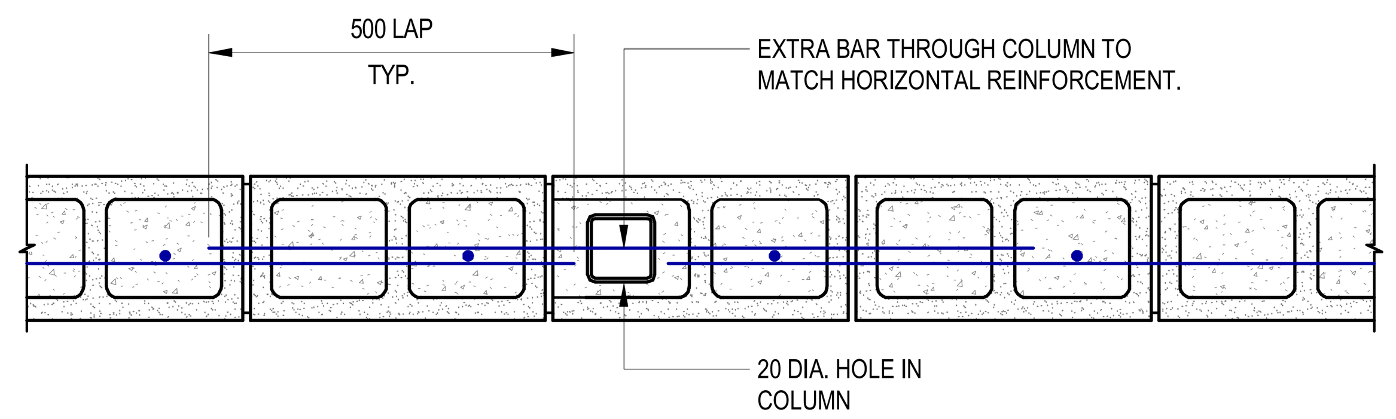


TYPICAL LINTEL CONNECTION TO INSITU WALL OR COLUMN DETAIL
SCALE 1:10



TYPICAL AT BLOCKWALL PARAPETS

TYPICAL BOND BEAM DETAIL
SCALE 1:10



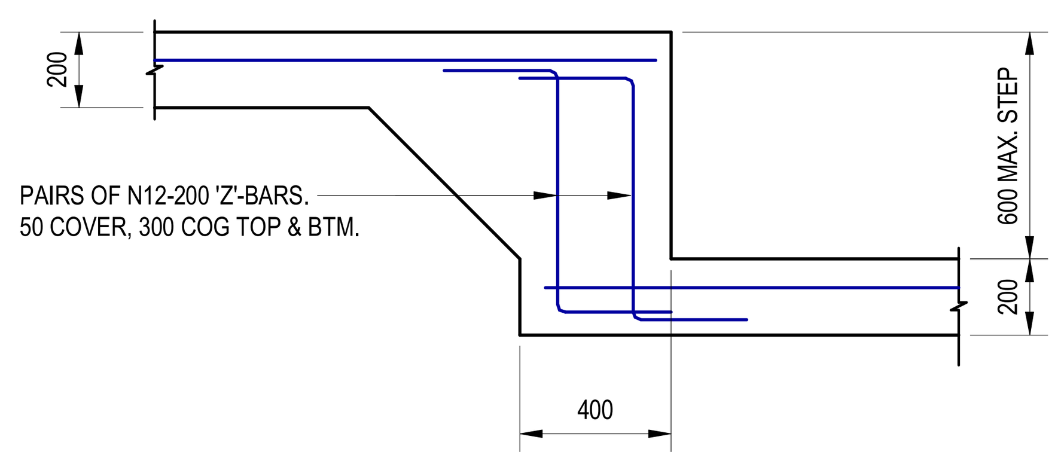
TYPICAL STEEL COLUMN IN BLOCKWORK DETAIL
SCALE 1:10

BLOCKWORK NOTES:

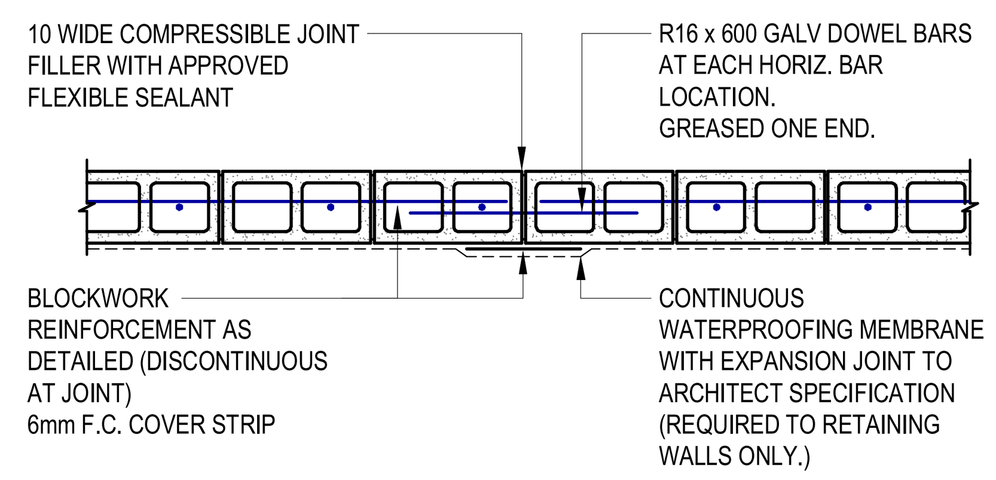
1. REINFORCE LOAD BEARING WALLS WITH N12-400 HORIZ. & VERT. U.N.O. PROVIDE 1N12 VERT. EACH SIDE OF OPENINGS, AT ENDS OF WALLS AND AT TEE INTERSECTIONS WITH OTHER WALLS. COREFILL ALL CORES. TYPICAL U.N.O.
2. WHERE LOAD BEARING BLOCKWALLS ARE LESS THAN 1000 LONG, PROVIDE 1N12 IN EACH CORE.
3. REINFORCE ALL NON LOADBEARING WALLS WITH N12 VERT. EACH SIDE OF OPENINGS, AT ENDS OF WALLS, AT TEE INTERSECTIONS WITH OTHER WALLS & AT 1000 CRS IN BETWEEN. PROVIDE 2N12 BOND BEAM AT TOP OF WALL. COREFILL REINFORCED CORES AND BOND BEAM ONLY. TYPICAL U.N.O.

RETAINING WALL NOTES

1. DESIGN ASSUMPTIONS.
   - MAXIMUM SURCHARGE LOADING ON BACKFILL: 5kPa
   - MAXIMUM BACKFILL SLOPE BEHIND & IN FRONT OF WALLS: 1 IN 25
2. REFER SCHEDULE FOR MINIMUM SAFE ALLOWABLE BEARING PRESSURE (SABP) TO U/S OF FOOTING. ENGAGE A GEOTECHNICAL ENGINEER TO VERIFY BEARING PRESSURE CAN BE ACHIEVED
3. CONCRETE SHALL BE GRADE N25
4. BLOCKS SHALL BE GRADE 15
5. MORTAR SHALL BE CLASS M3 TO AS3700 WITH MIX PROPORTIONS 1 : 1 : 6 (CEMENT : LIME : SAND) USE EFFLORESCENCE INHIBITOR
6. FILL ALL CORES WITH 20MPa GROUT WITH A FLOWABLE CONSISTENCY & A MINIMUM CEMENT CONTENT OF 300kg PER CUBIC METRE
7. PROVIDE BLOCKWORK CONTROL JOINTS AT MAX. 8m CRS U.N.O
8. TOLERANCE ON POSITION OF VERTICAL BARS IN WALL IS ± 5 mm



TYPICAL FOOTING STEP DETAIL FOR RETAINING WALL
SCALE 1:20



TYPICAL BLOCK CONTROL JOINT (BCJ) DETAIL
SCALE 1:20

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

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STATUS
TENDER
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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
TYPICAL BLOCKWORK DETAILS - SHEET 1

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.41	1

C:\Users\matthew.sayer\Documents\20-000180_Bli-Bli State School_Central_R20_Matthew Sayer.rvt
03-Apr-20 12:24:45 PM
A1

EFFECTIVE FLIGHT SPAN (Ls)	FLIGHT THROAT THICKNESS (Ft) & MAIN BARS	LANDING THICKNESS (Lt) IF L=2.4m & BTM REINF'	LANDING THICKNESS (Lt) IF L=3.0m & BTM REINF'
2.0m	150 N12-200	150 N12-200	200 N12-200
2.5m	150 N12-200	150 N12-200	200 N12-175
3.0m	150 N12-150	170 N12-200	200 N12-150

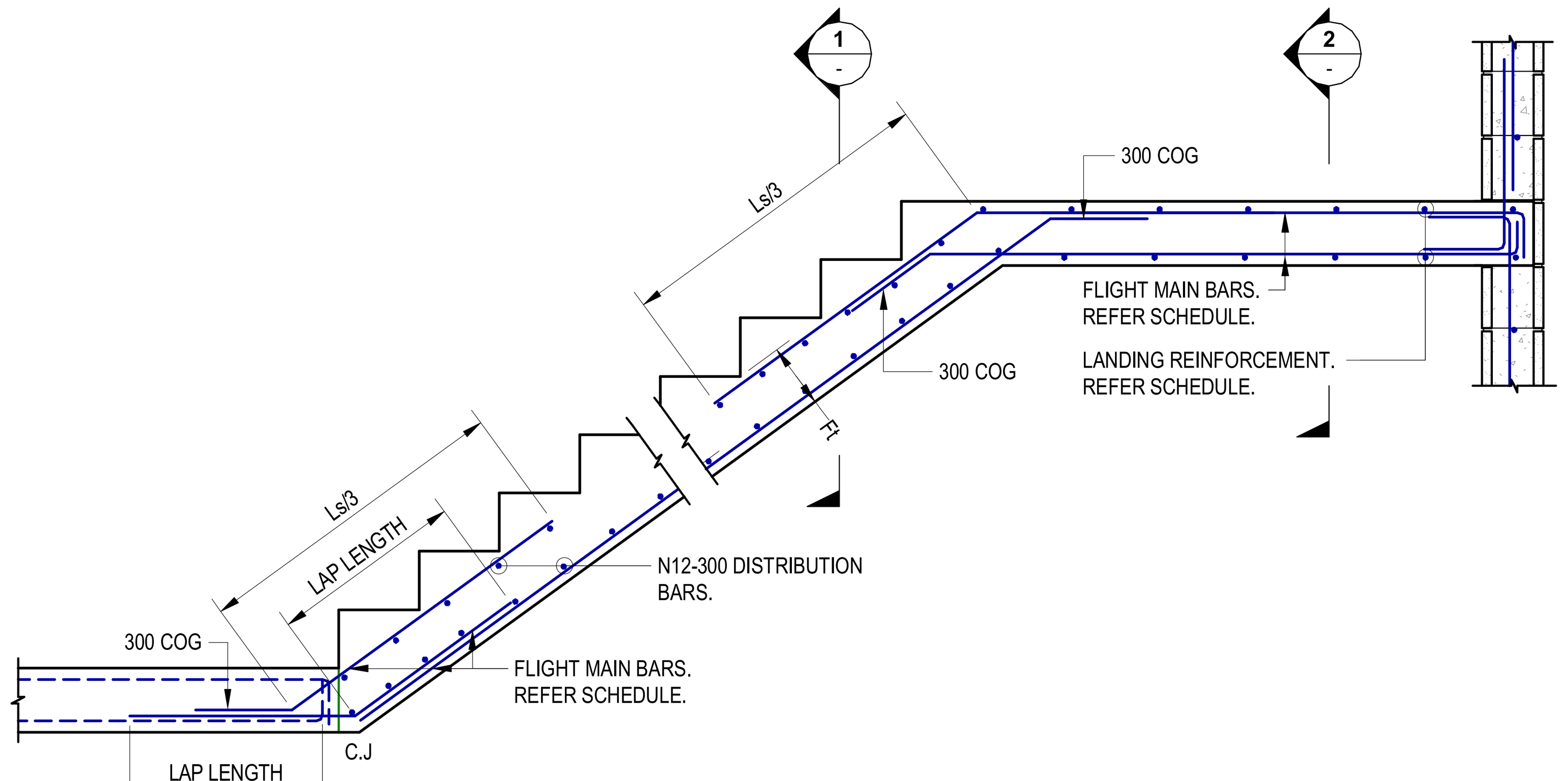
STAIR MASTER STAIRS

1. MAIN WIRES OF BOTTOM MESH TO BE CONTINUOUS ie. NO LAPS OR WELDS.
2. WELDING TO MESH IS NOT PERMITTED UNLESS PROCESS USED DOES NOT ALTER MESH STRENGTH PROPERTIES OF AS 4671. DO NOT WELD TO MAIN WIRES OF MESH.
3. MAIN WIRES OF MESH TO BE LOWER MOST WITH 20mm COVER TO TRAY FORMWORK.
4. LANDING REINFORCEMENT MUST NOT BE INTERRUPTED BY SIDES OF FLIGHTS CONTINUING INTO LANDING. MESH TO HAVE AT LEAST THE EQUIVALENT CROSS SECTIONAL AREA OF THE BARS CALLED UP IN THE SCHEDULES.
5. REINFORCEMENT SHOWN IN SCHEDULES IS INDICATIVE UNLESS NOTED OTHERWISE ON SHOP DRAWING ENGINEER COMMENTS.

NOTES

(UNLESS NOTED OTHERWISE ON PLAN)

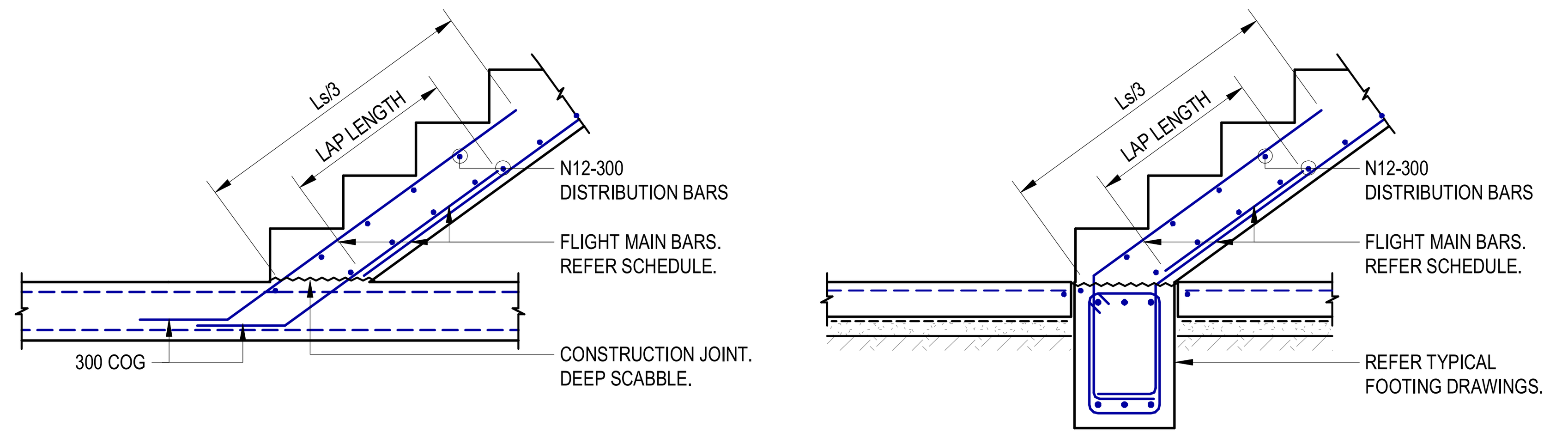
1. SCHEDULES ON THIS DRAWING ARE TO BE READ IN CONJUNCTION WITH THE TYPICAL STAIR FLIGHT DETAILS.
2. STAIRMASTER FORMWORK OR EQUIVALENT MAY BE USED IN CONJUNCTION WITH THE REINFORCEMENT ON THIS DRAWING UNLESS NOTED OTHERWISE ON SHOP DRAWING ENG. COMMENTS.
3. NOTE THAT IF FABRIC REINFORCEMENT IS USED INSTEAD OF BARS, THE EQUIVALENT LAPS AS INDICATED ON THE TYPICAL FLIGHT DETAILS MUST STILL BE MAINTAINED AT CRANKS.
4. CONCRETE GRADE N32 UNO.



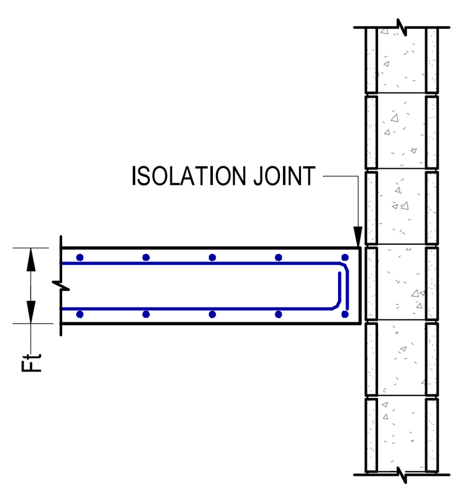
STAIR FLIGHT F1

TYPICAL STAIR FLIGHT DETAILS

SCALE 1:20

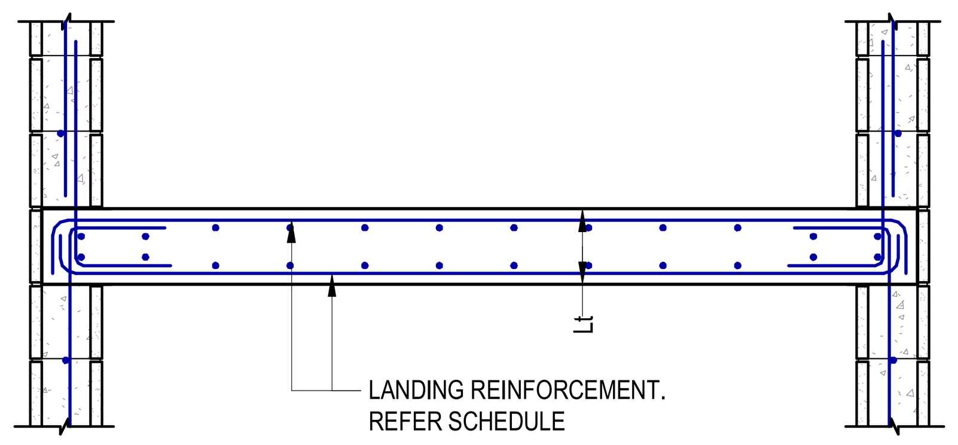


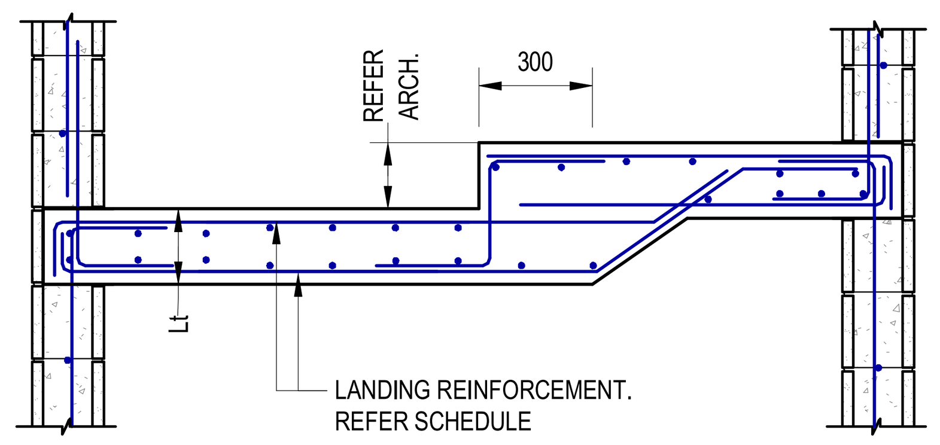
TYPICAL STAIR STARTER DETAILS



SECTION 1

SCALE 1:20





ALTERNATIVE SECTION AT STAIR LANDING

SECTION 2

SCALE 1:20

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

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STATUS

TENDER

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PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

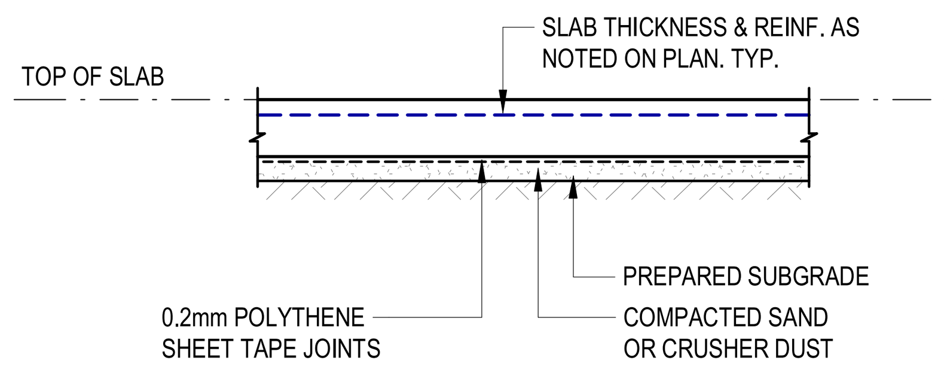
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

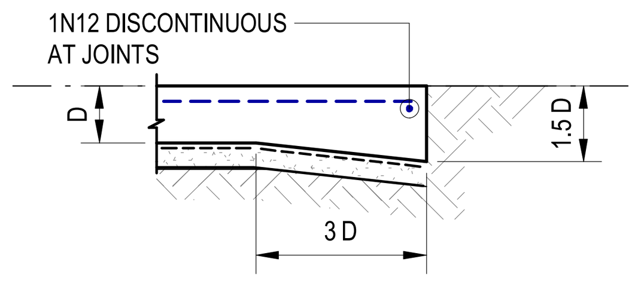
TYPICAL STAIR DETAILS

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.51	1

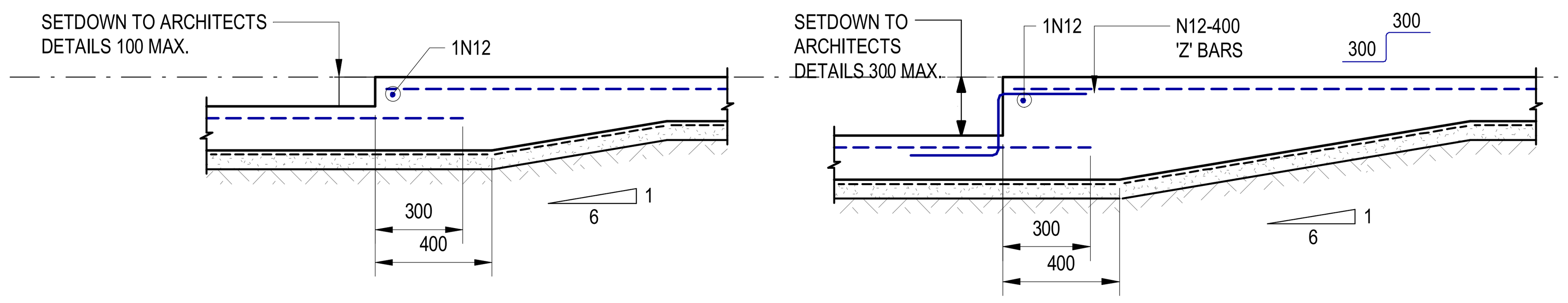
A1



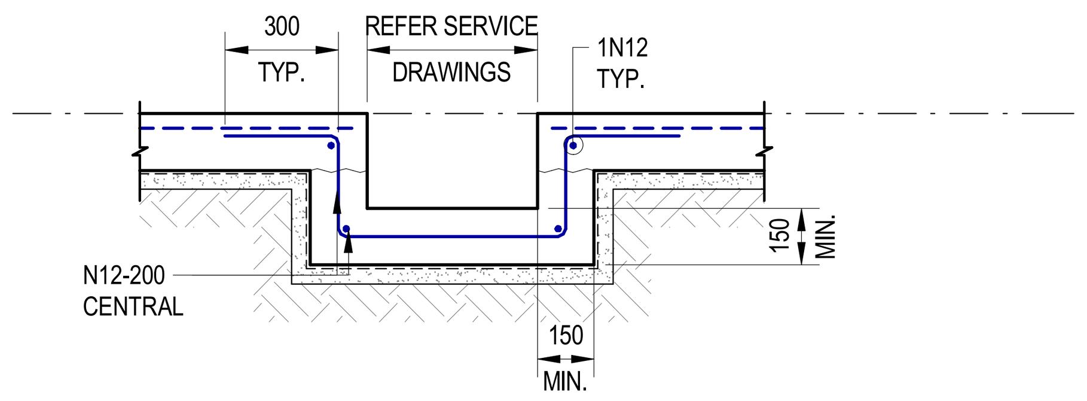
TYPICAL SLAB PROFILE
SCALE 1:20



TYPICAL SLAB EDGE THICKENING
SCALE 1:20

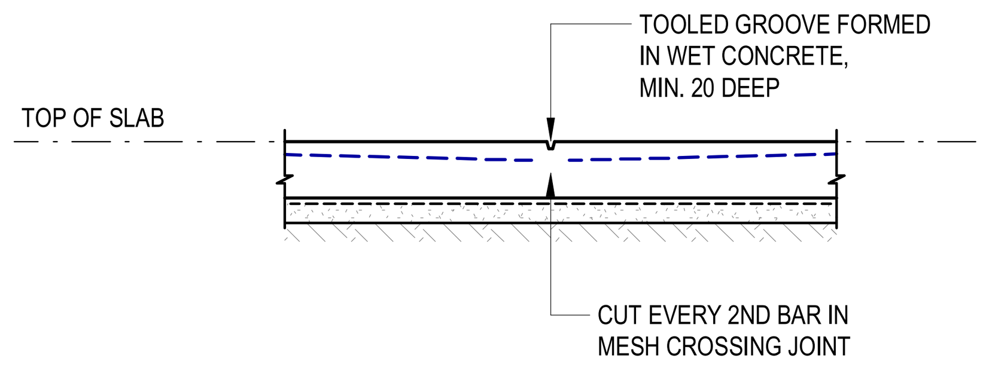


TYPICAL SLAB SETDOWN DETAIL
SCALE 1:20

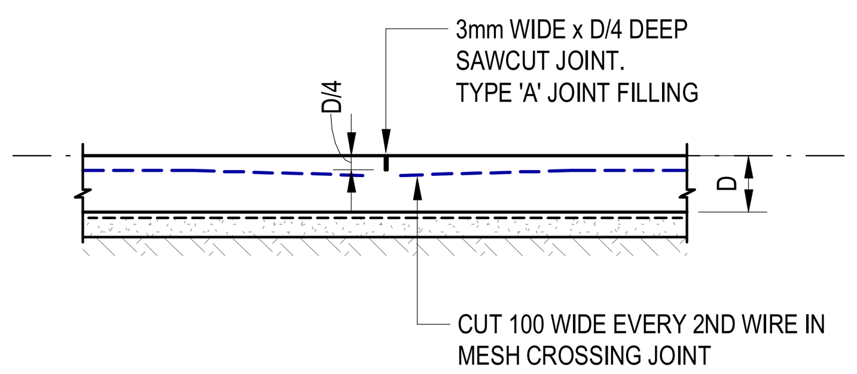


TYPICAL RECESS DETAIL AT FLOOR
SCALE 1:20

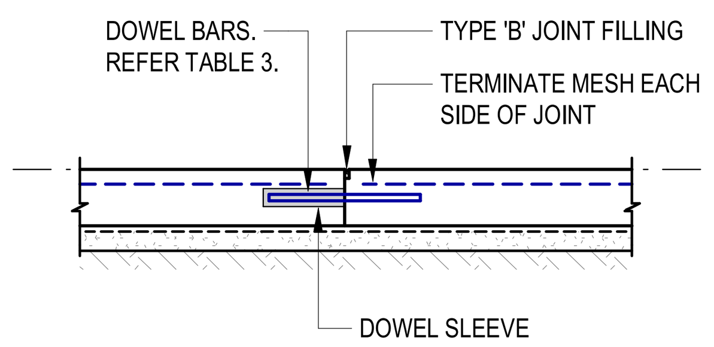
NOTE:
REFER ELECTRICAL DRAWINGS FOR NUMBER AND LOCATION.



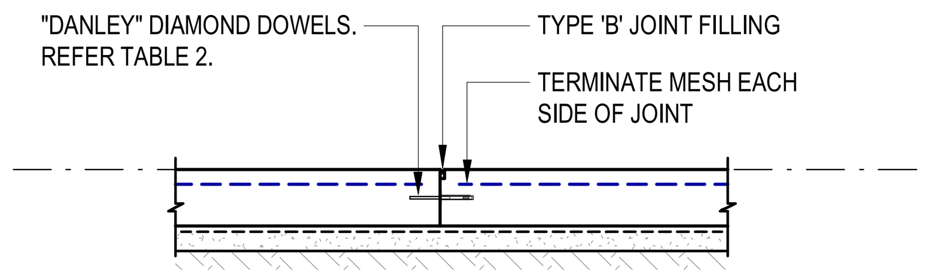
TYPICAL TOOLED JOINT (T.J.) DETAIL
SCALE 1:20



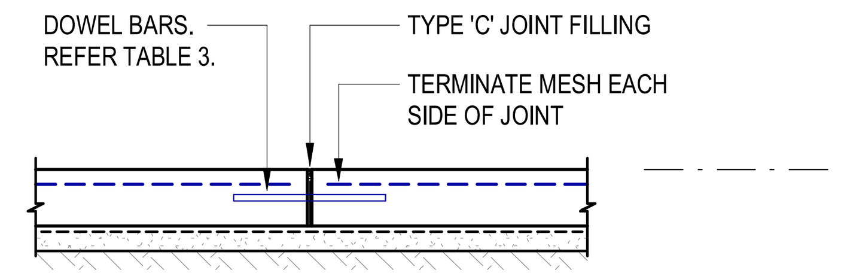
TYPICAL SAWCUT JOINT (S.J.) DETAIL
SCALE 1:20



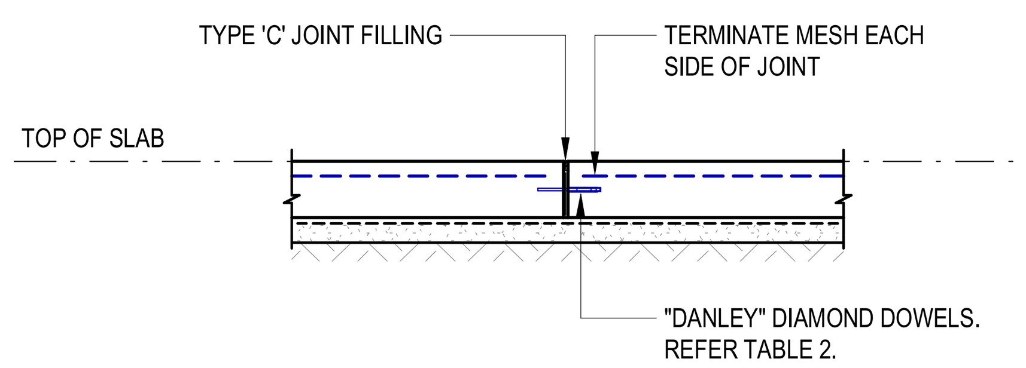
TYPICAL DOWELLED FORMED JOINT (D.F.J.) DETAIL (TYPE 1)
SCALE 1:20



TYPICAL DOWELLED FORMED JOINT (D.F.J.) DETAIL (TYPE 2)
SCALE 1:20



TYPICAL DOWELLED EXPANSION JOINT (D.E.J.) DETAIL (TYPE 1)
SCALE 1:20



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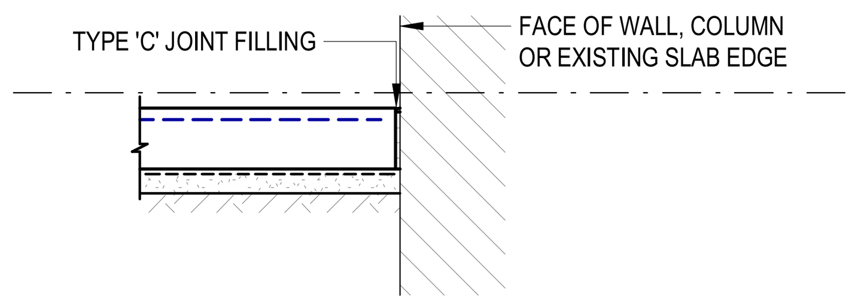
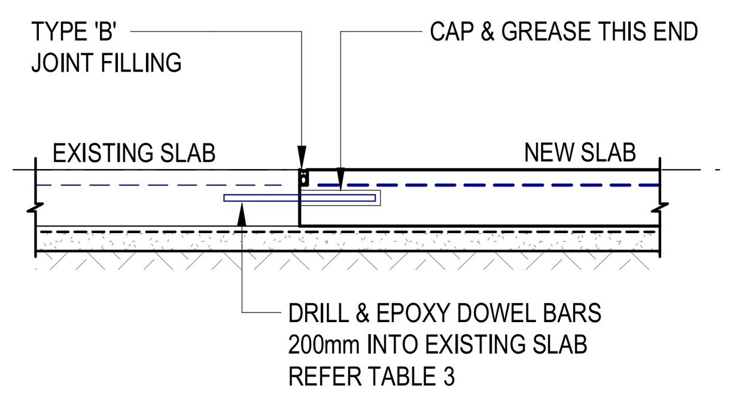
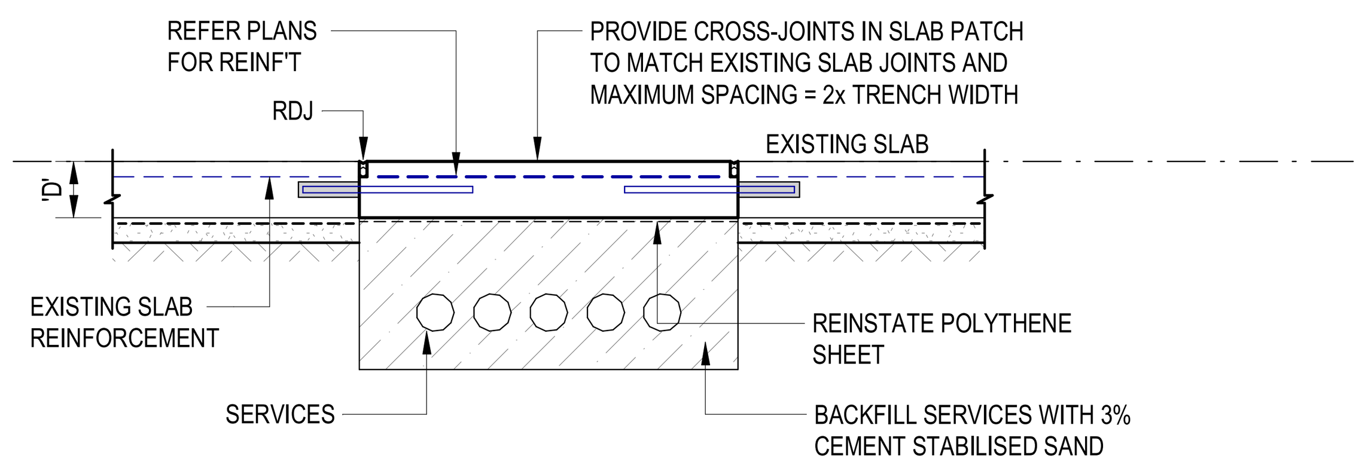


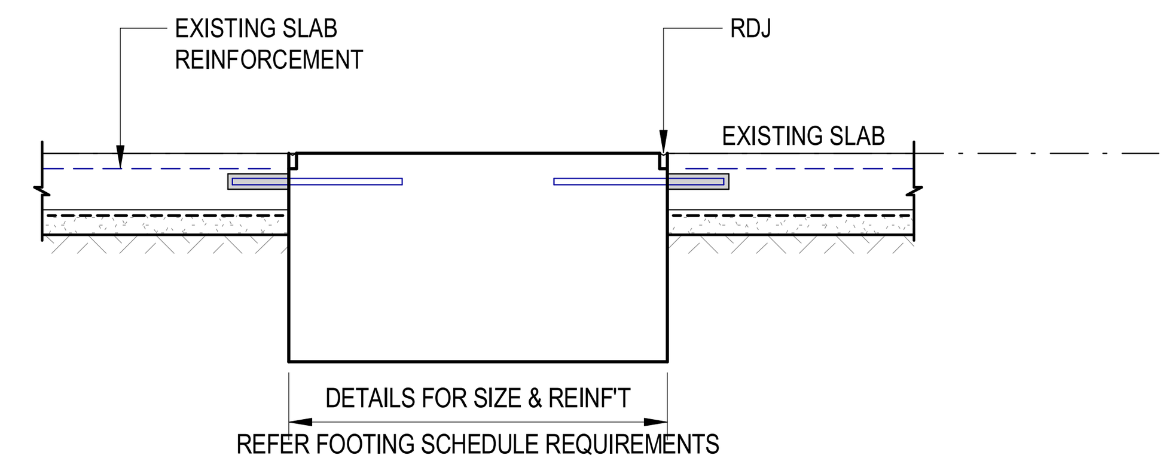
TYPICAL ISOLATION JOINT (I.J.) DETAIL
SCALE 1:20



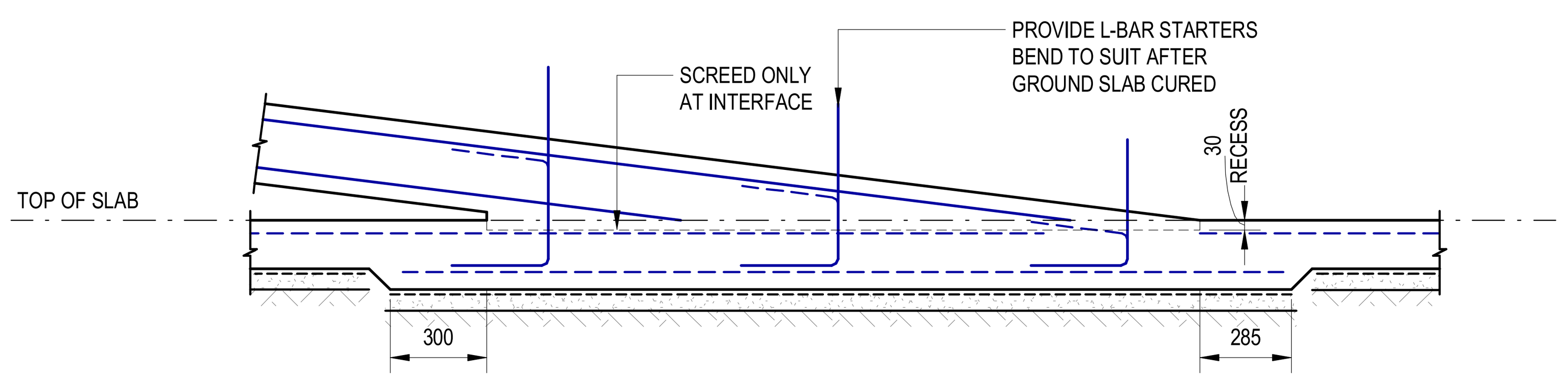
TYPICAL RETROFIT DOWELLED JOINT (R.D.J.) DETAIL
SCALE 1:20



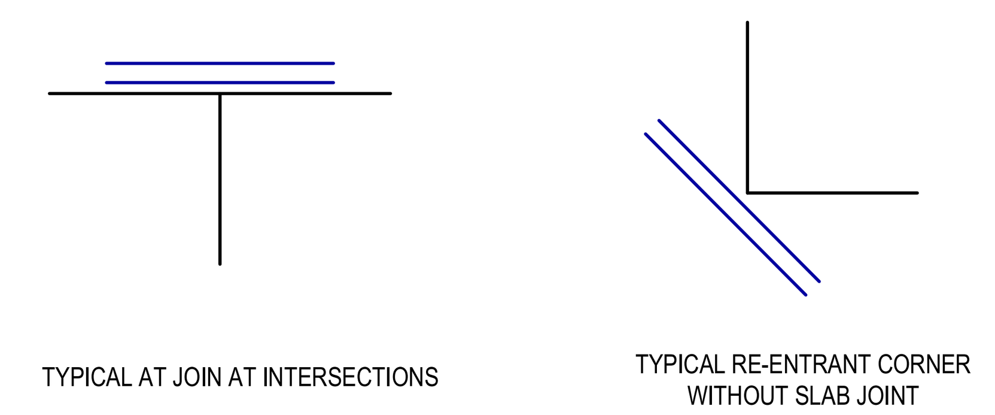
TYPICAL EXISTING SLAB PATCH FOR NEW SERVICES DETAIL
SCALE 1:20



TYPICAL EXISTING SLAB PATCH FOR NEW PAD FOOTING DETAIL
SCALE 1:20

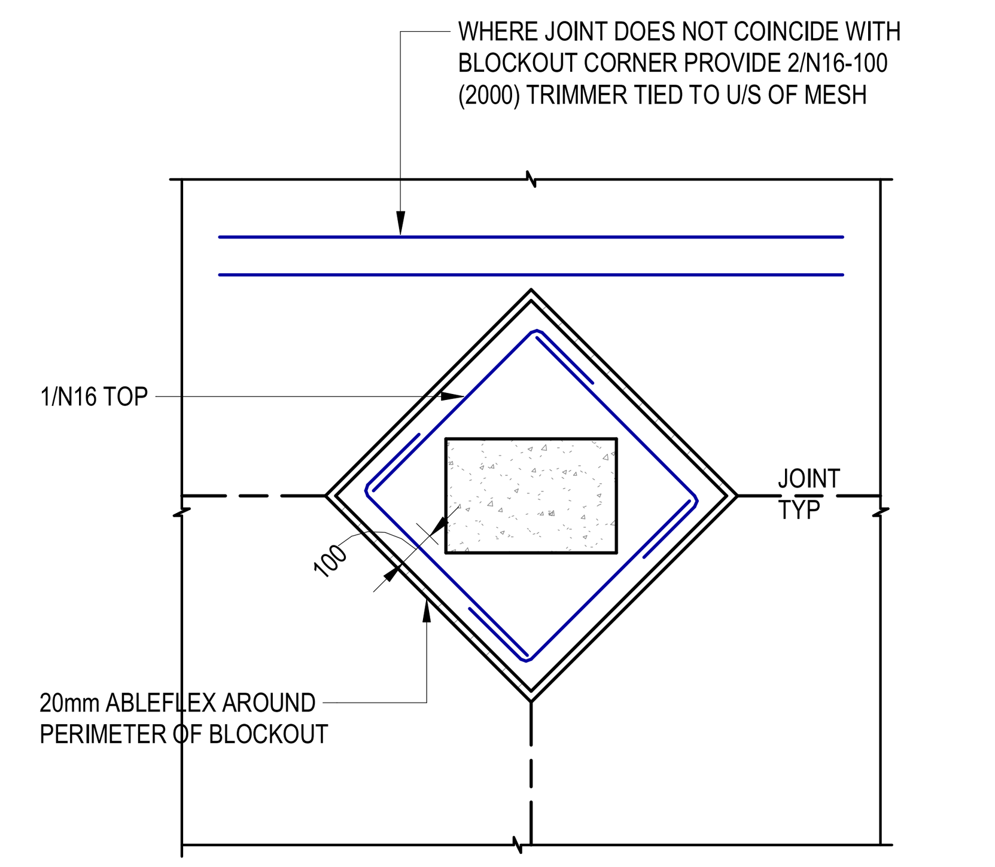


TYPICAL RAMP TO SLAB ON GROUND DETAIL
SCALE 1:20



PROVIDE TRIMMER BARS AT ALL COLUMNS, WALLS, PITS, FLOOR WASTES ETC. THAR CAUSE A PENETRATION THROUGH THE SLAB. ALL TRIMMERS TO BE 2/N12 U.N.O. 1200 LONG, CENTRED AT CORNERS, TIED TO UNDERSIDE OF MESH

TYPICAL SLAB ON GROUND TRIMMER DETAILS
SCALE 1:20

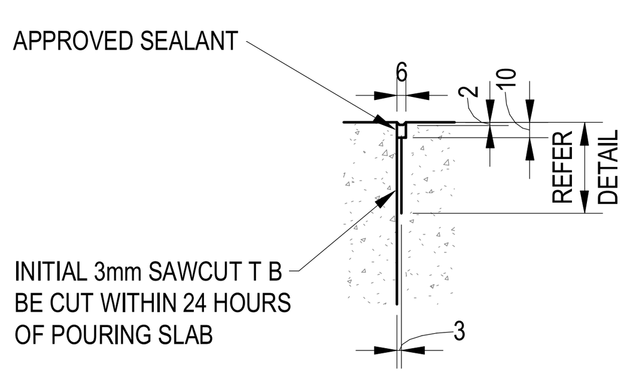


TYPE '2'

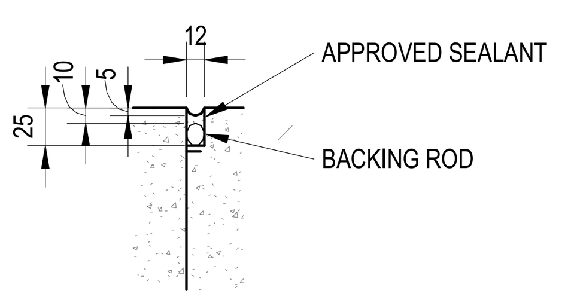
TYPICAL SLAB BLOCKOUT DETAIL AT COLUMNS
SCALE 1:20

TABLE 3: SPECIFICATION FOR ROUND DOWELS (DFJ, RDJ AND DEJ)

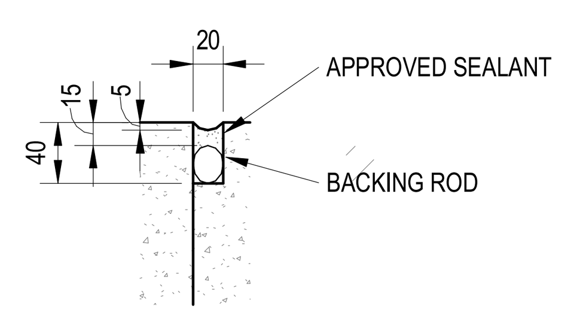
DOWEL TYPE	SLAB THICKNESS 'D' mm				
	125	150	175	200	220
ROUND DOWEL	R16, 400 LONG AT 300 CTS.	R20, 400 LONG AT 300 CTS.	R20, 400 LONG AT 300 CTS.	R24, 450 LONG AT 300 CTS.	R24, 450 LONG AT 300 CTS.



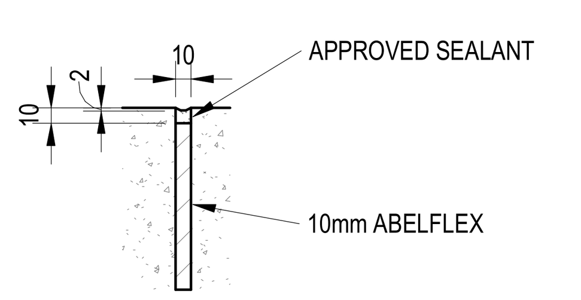
TYPE 'A'



TYPE 'B'
(JOINT SPACING <6m)



TYPE 'B'
(JOINT SPACING >6m, <10m)



TYPE 'C'

TYPICAL JOINT TYPE DETAILS
SCALE 1:5

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
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STATUS
TENDER
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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
TYPICAL SLAB ON GROUND DETAILS

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.61	1

03-Apr-20 12:24:53 PM
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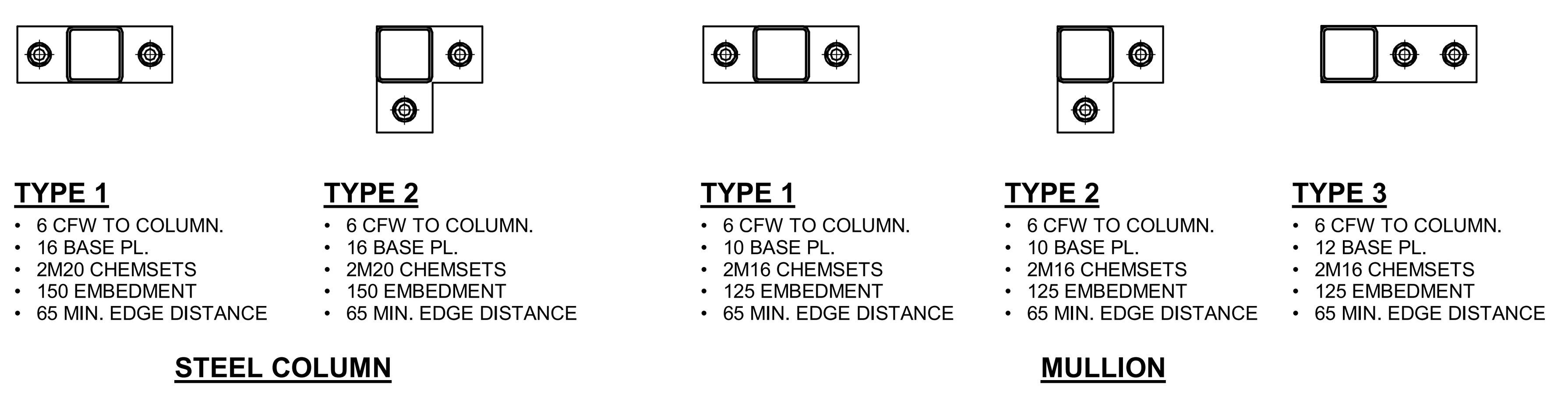
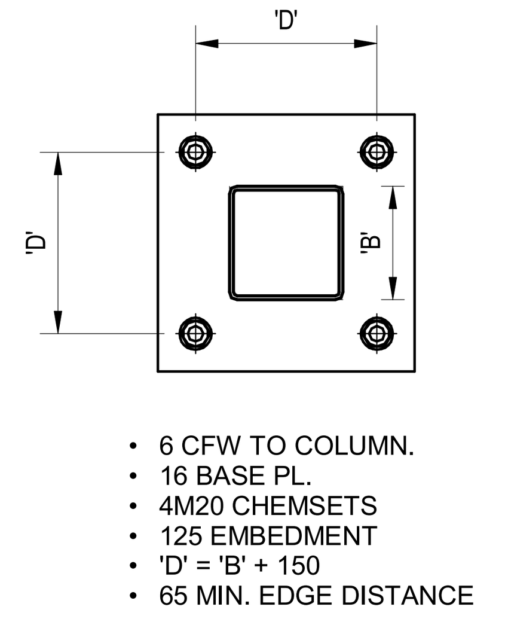
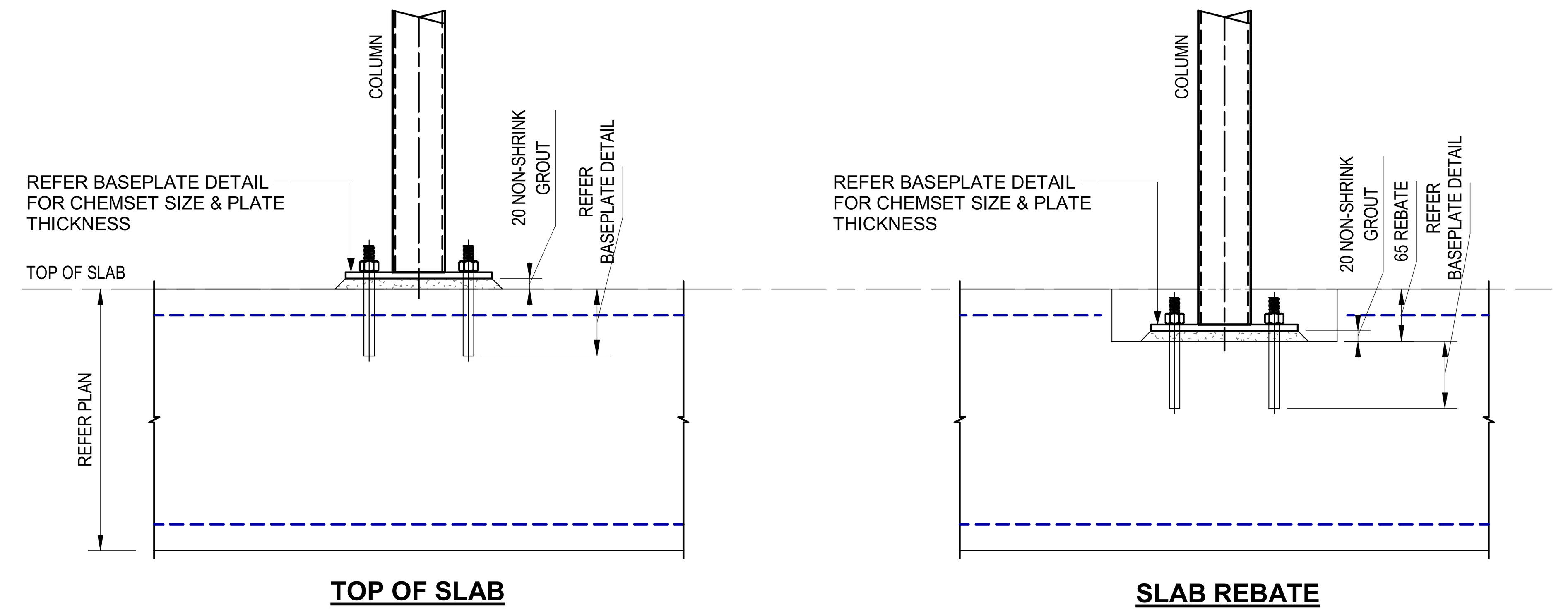
A1



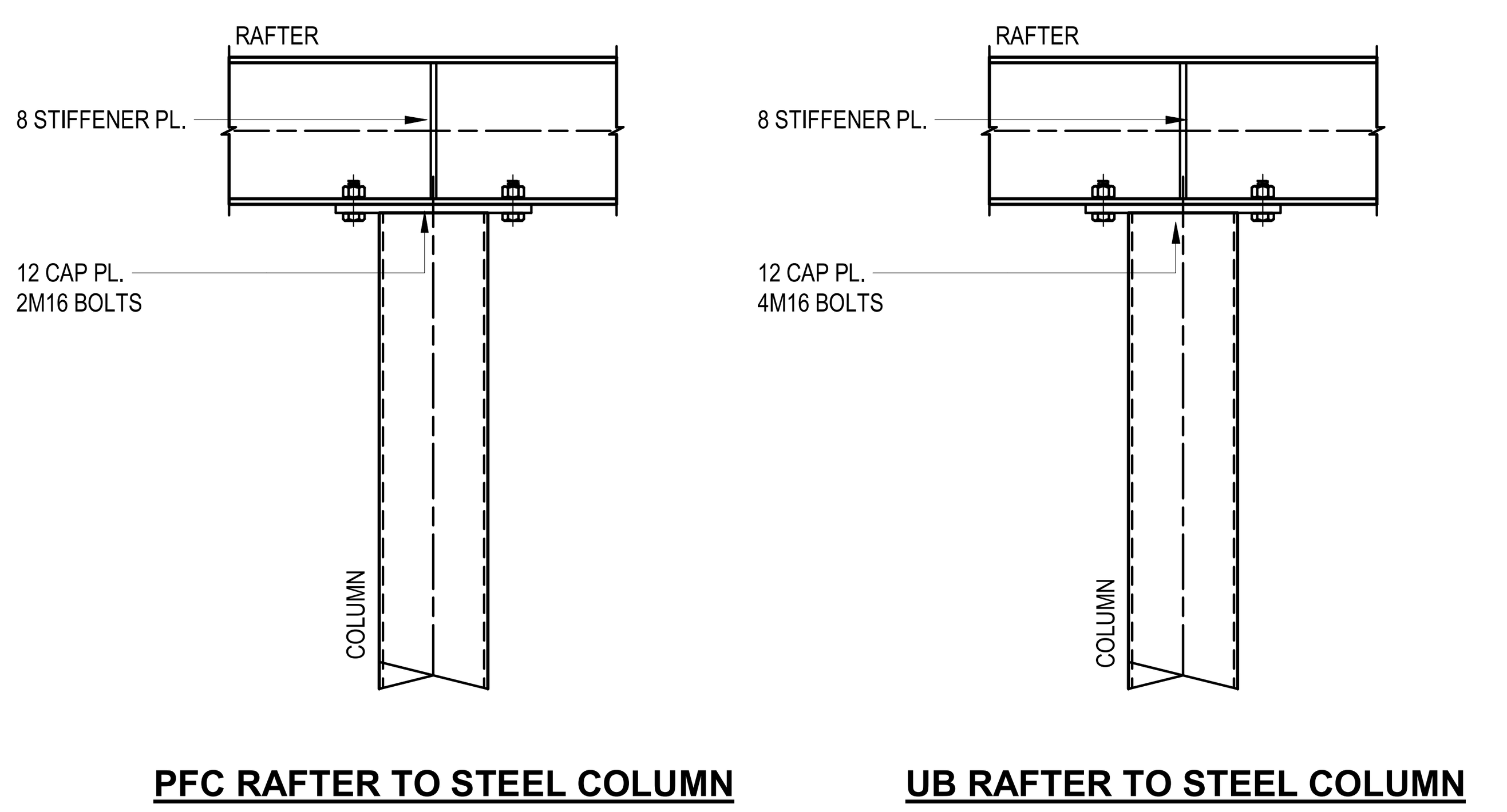
TYPICAL BASEPLATE CONNECTION DETAILS - MEMBER <= 100 SHS/RHS
SCALE 1:10



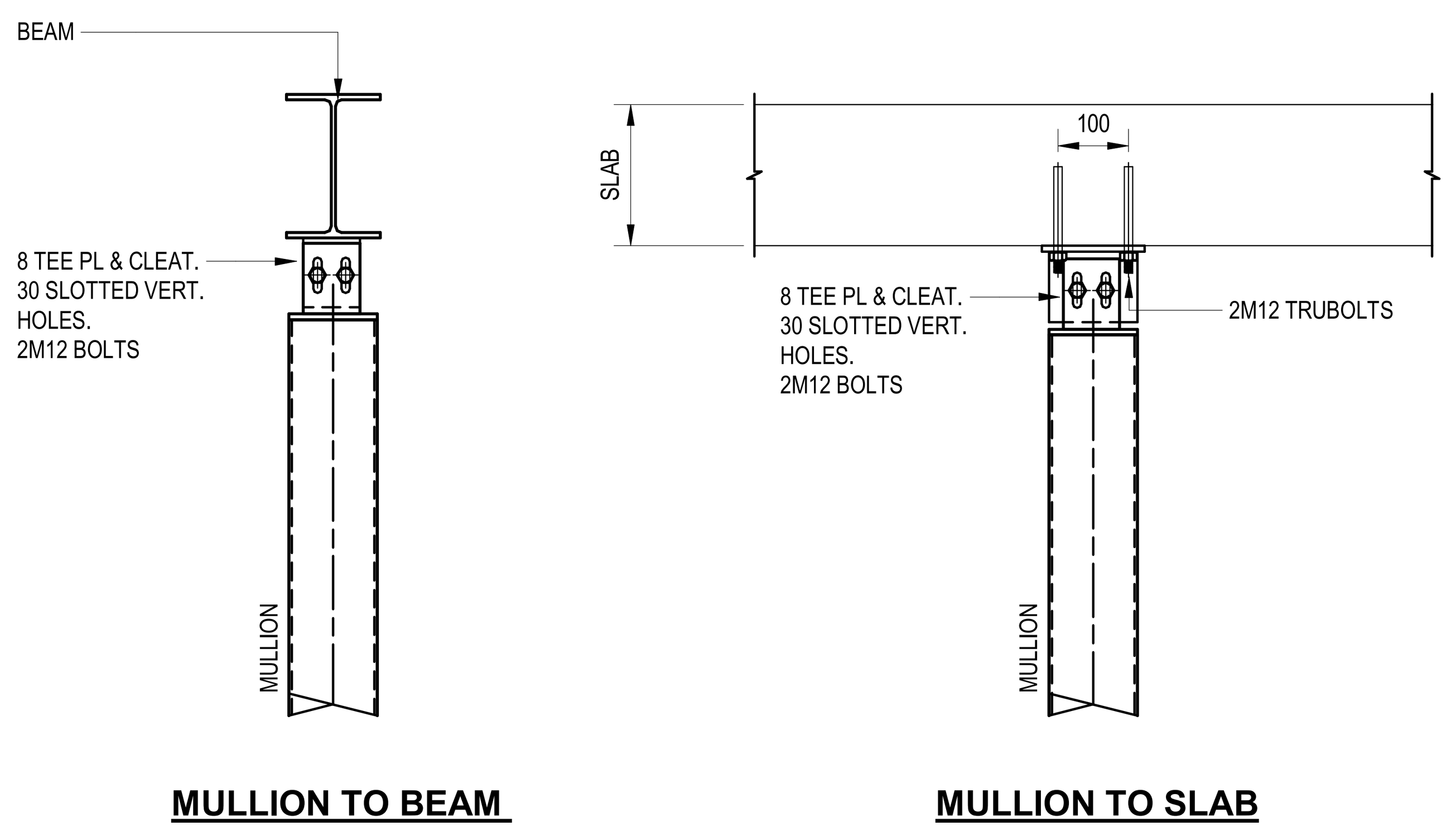
TYPICAL BASEPLATE CONNECTION DETAILS - MEMBER >= 125 SHS/RHS
SCALE 1:10



TYPICAL STEEL COLUMN/MULLION TO SLAB
SCALE 1:10



TYPICAL COLUMN CONNECTION DETAILS
SCALE 1:10



TYPICAL MULLION CONNECTION DETAILS
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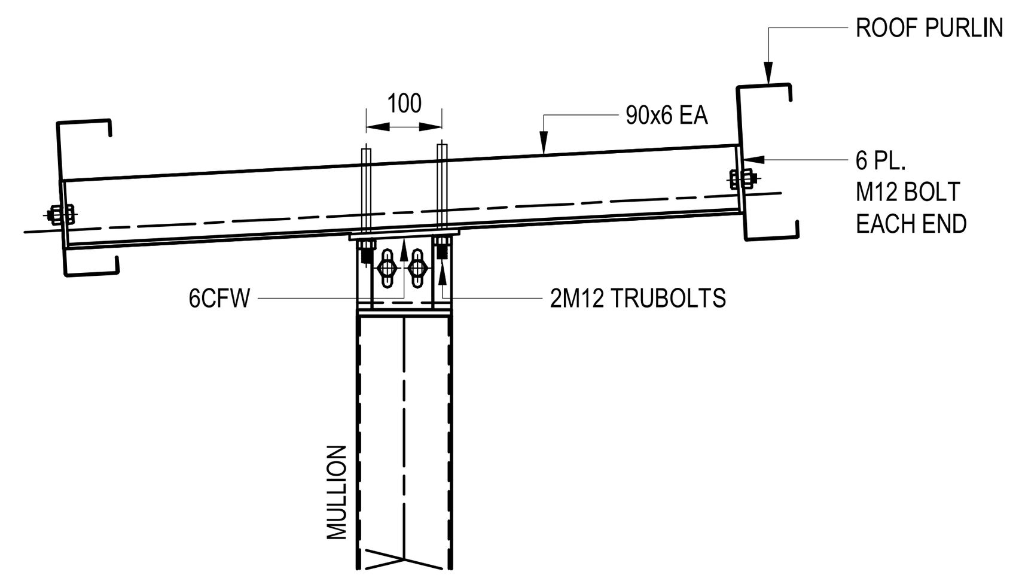
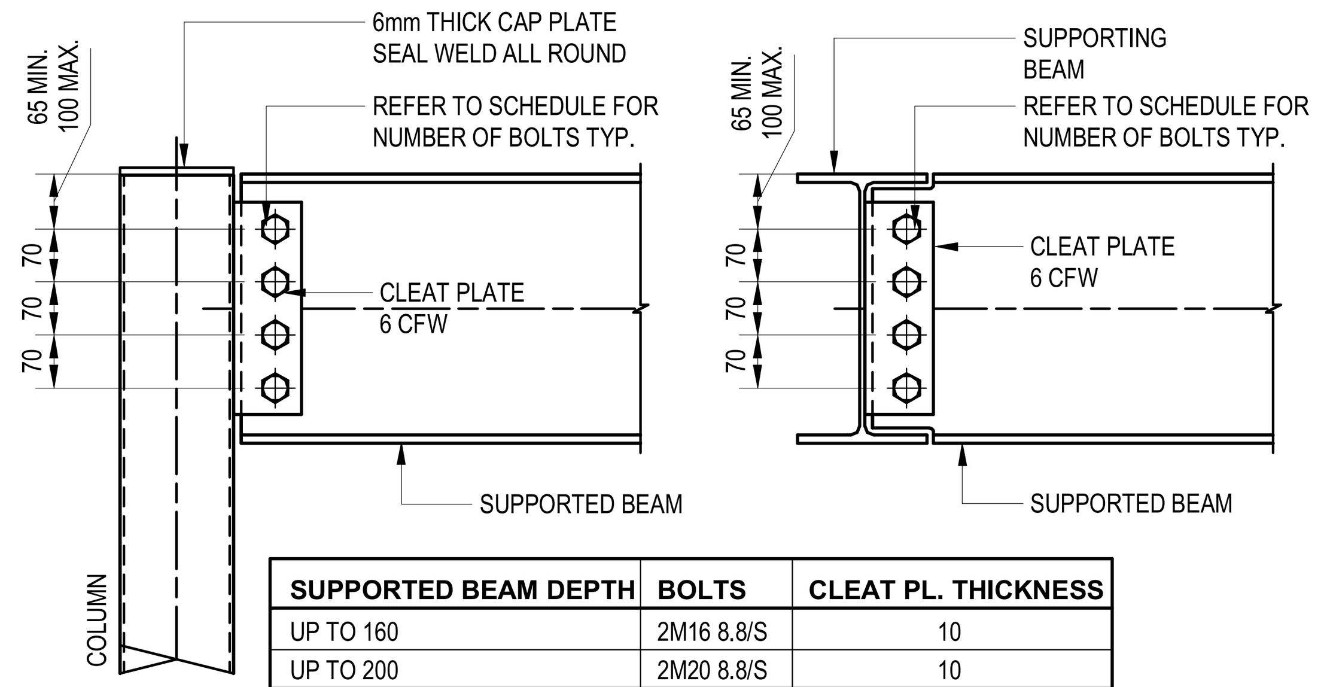
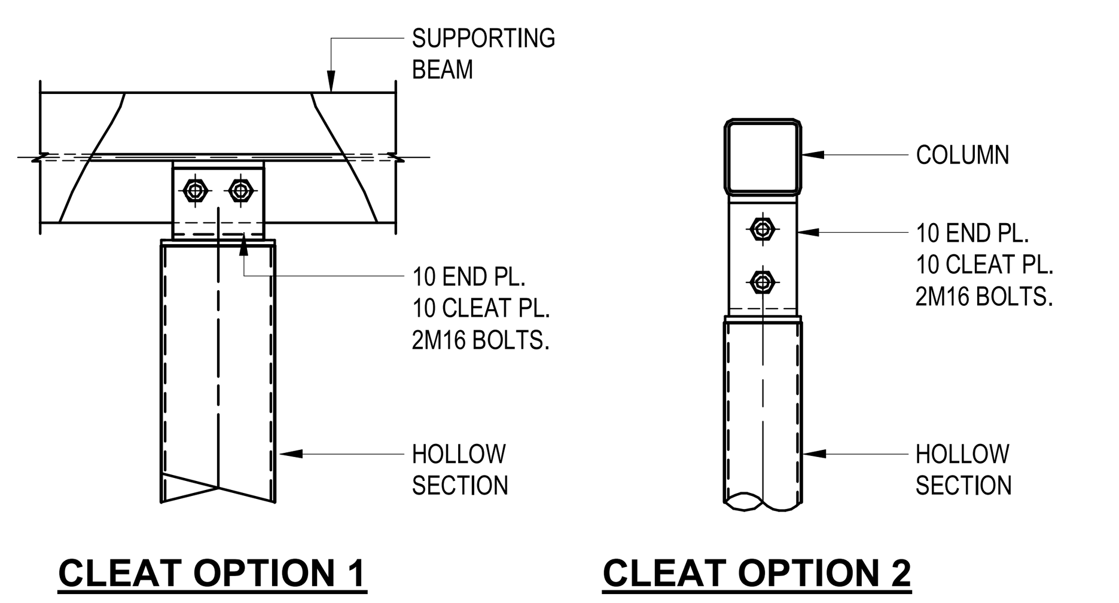


TYPICAL MULLION TO PURLIN DETAIL
SCALE 1:10

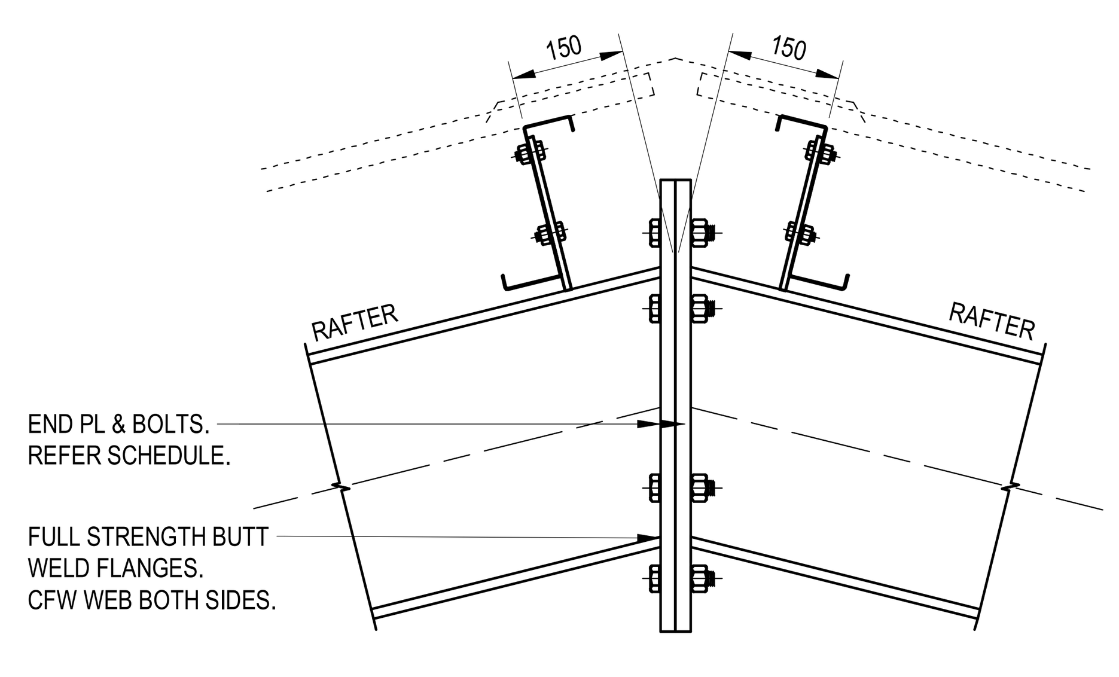


SUPPORTED BEAM DEPTH	BOLTS	CLEAT PL. THICKNESS
UP TO 160	2M16 8.8/S	10
UP TO 200	2M20 8.8/S	10
UP TO 250	2M20 8.8/S	10
UP TO 360	3M20 8.8/S	10
UP TO 460	4M20 8.8/S	10
TYPICAL FOR ALL CONNECTIONS U.N.O.		

TYPICAL PFC, UB & UC FIN PLATE CONNECTION DETAIL
SCALE 1:10



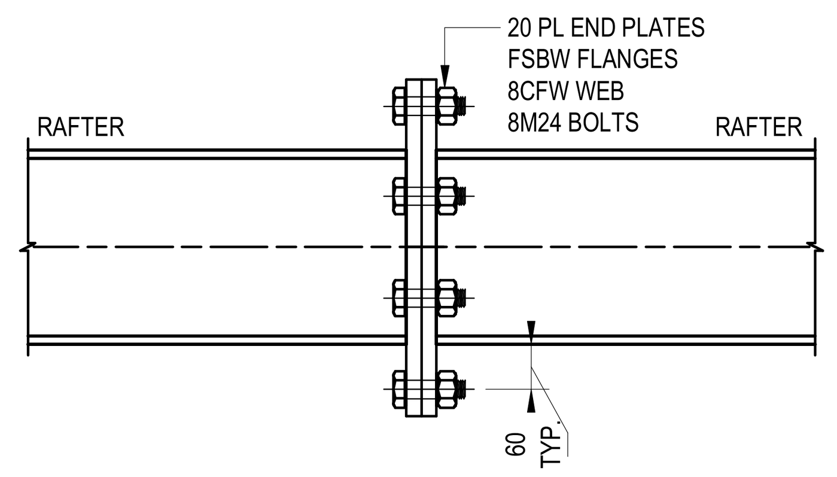
TYPICAL HOLLOW SECTION CLEAT CONNECTION DETAIL
SCALE 1:10



SUPPORTED BEAM DEPTH	BOLTS	END PL. THICKNESS
UP TO 250	8M20 8.8/S	16
UP TO 410	8M20 8.8/S	20
UP TO 610	8M24 8.8/S	25

BOLTED RIDGE CONNECTION

TYPICAL RAFTER RIDGE DETAILS
SCALE 1:10



TYPICAL END PLATE SPLICE DETAIL
SCALE 1:10

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
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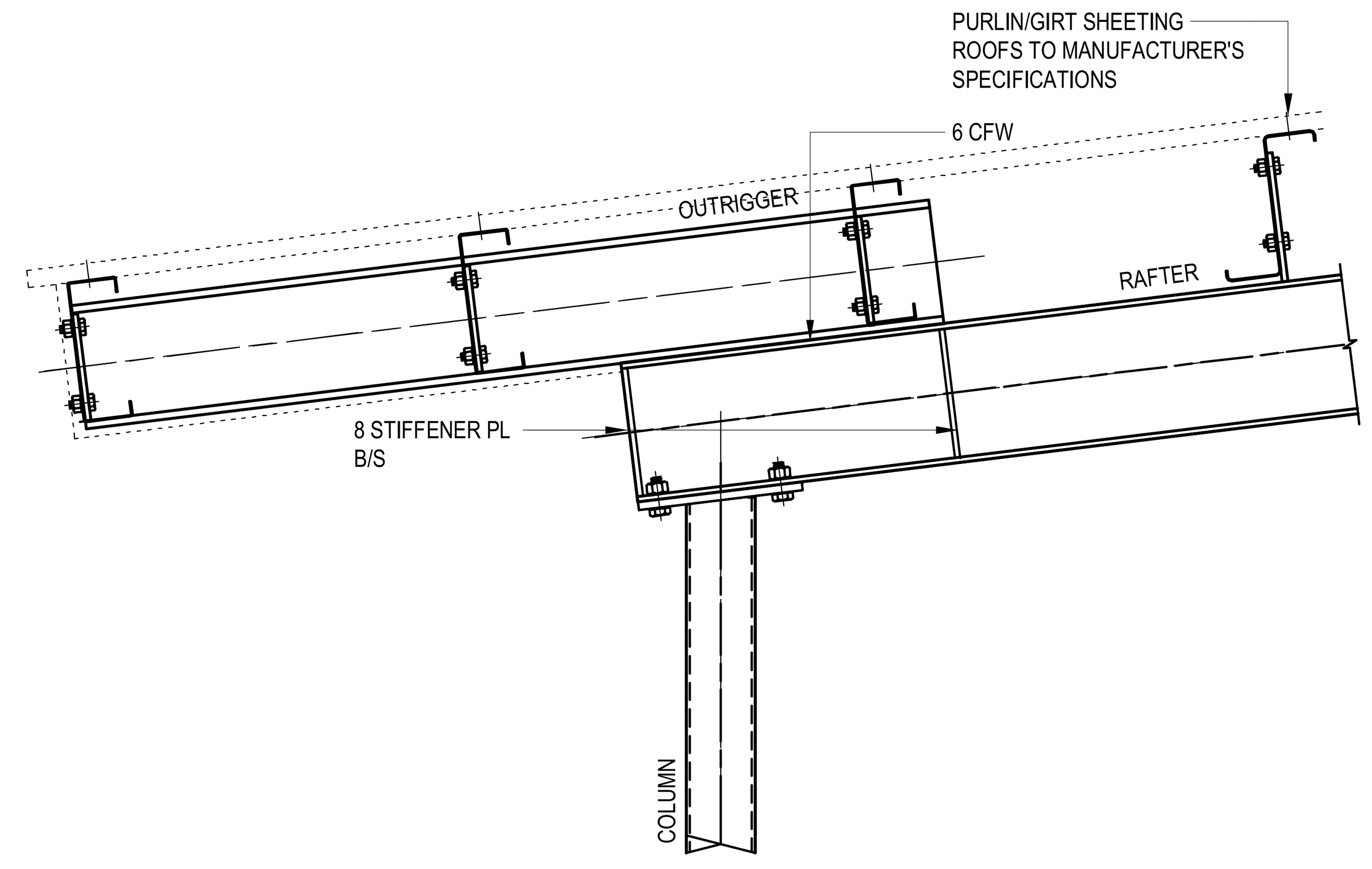
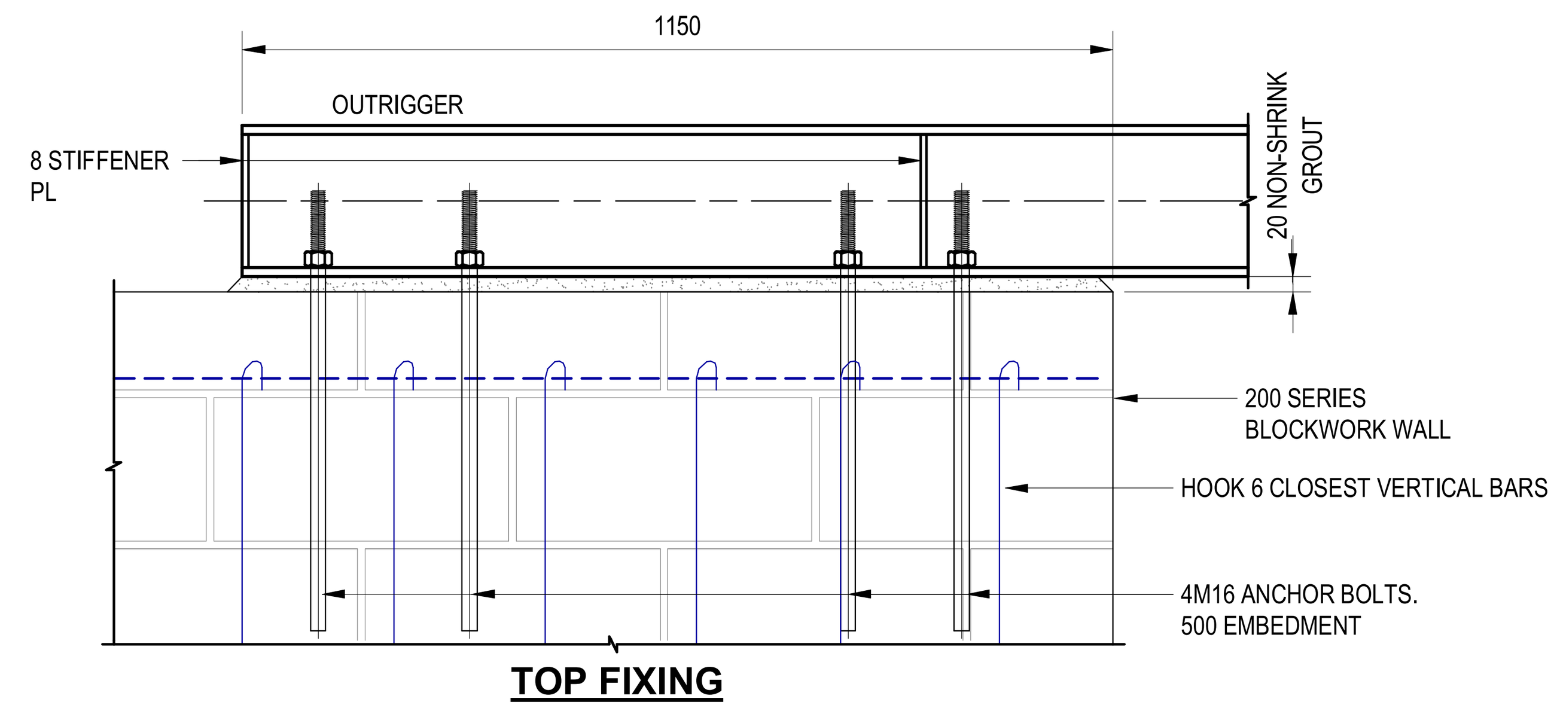
PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

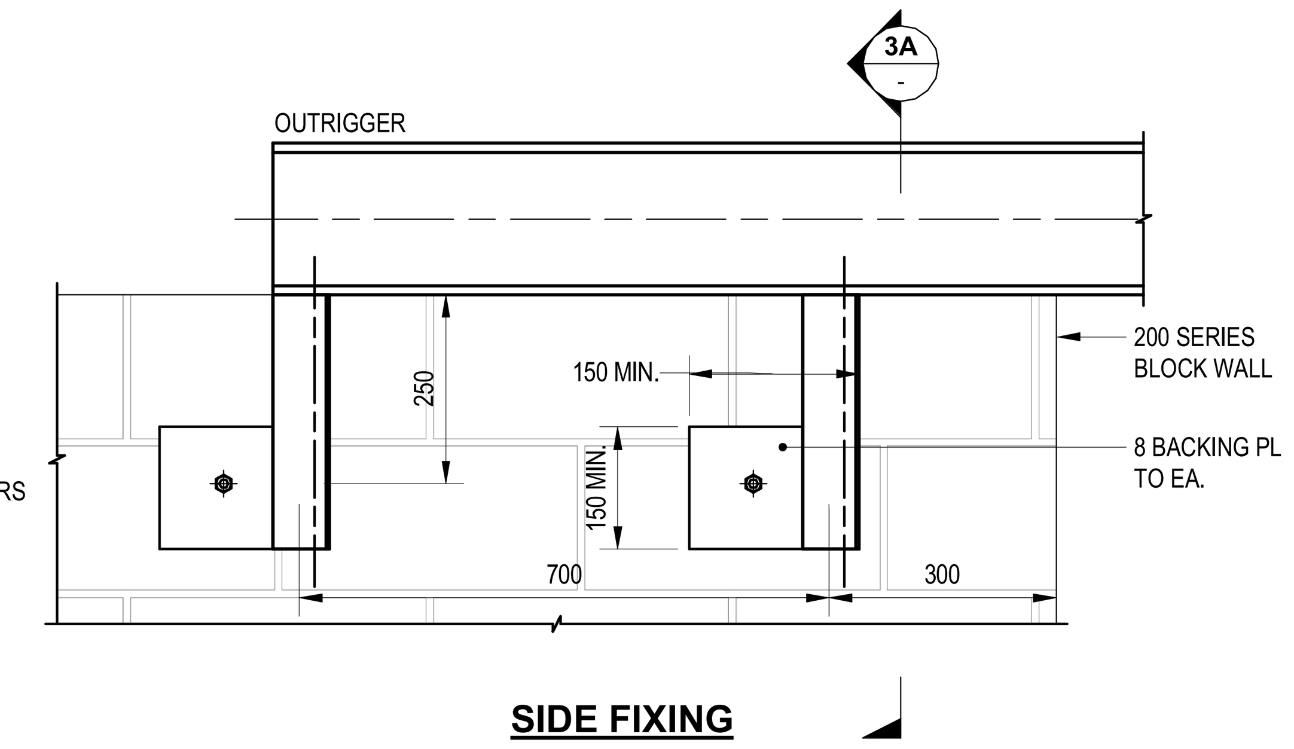
DRAWING TITLE
TYPICAL FRAMING DETAILS - SHEET 1

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.91	1

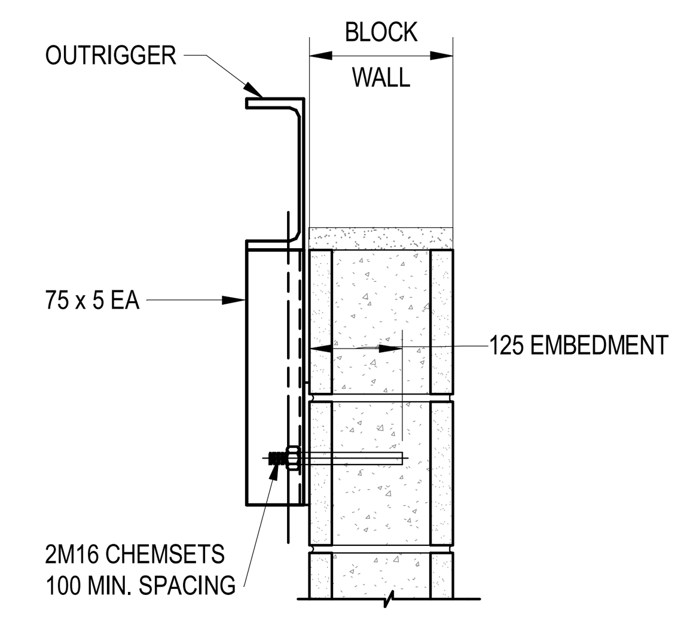


TYPICAL OUTRIGGER DETAIL
SCALE 1:10

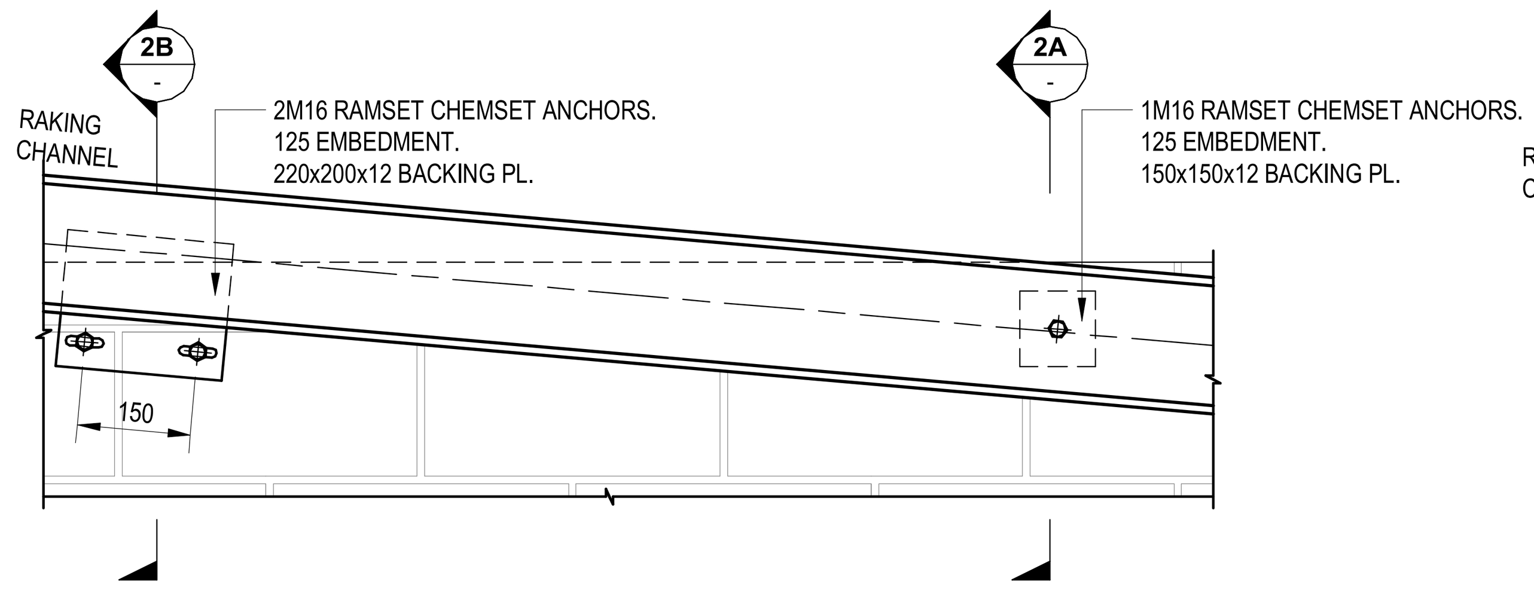




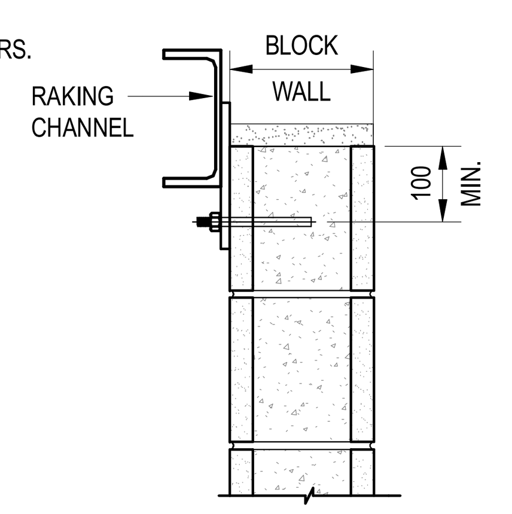
TYPICAL OUTRIGGER TO BLOCKWORK CONNECTION DETAILS
SCALE 1:10



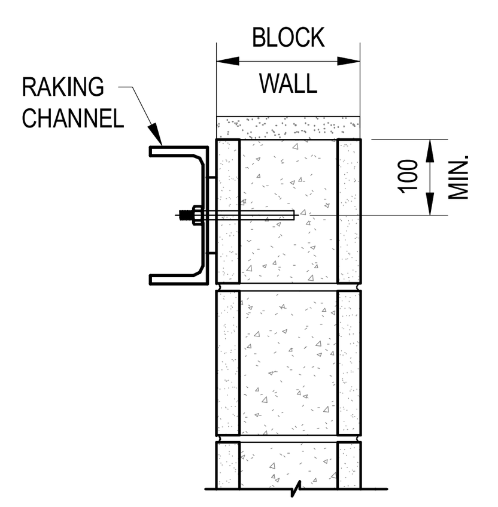
SECTION 3A
SCALE 1:10



TYPICAL RAKING CHANNEL TO BLOCK/CONCRETE WALL DETAIL
SCALE 1:10



SECTION 2B
SCALE 1:10



SECTION 2A
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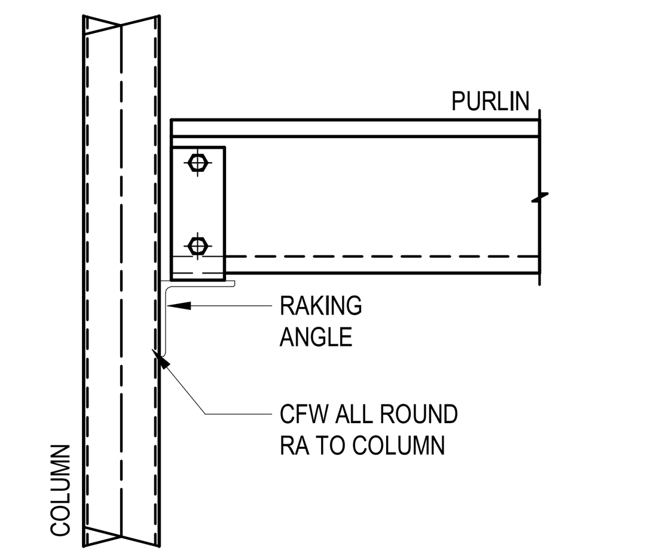
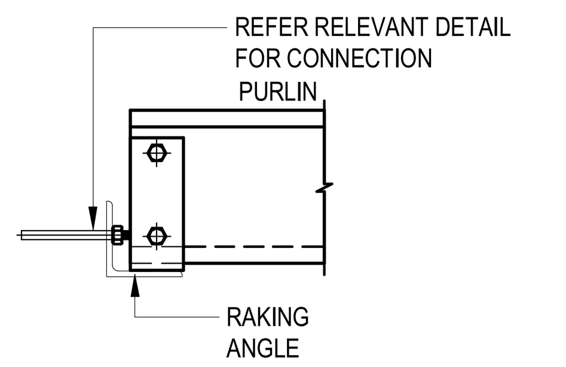
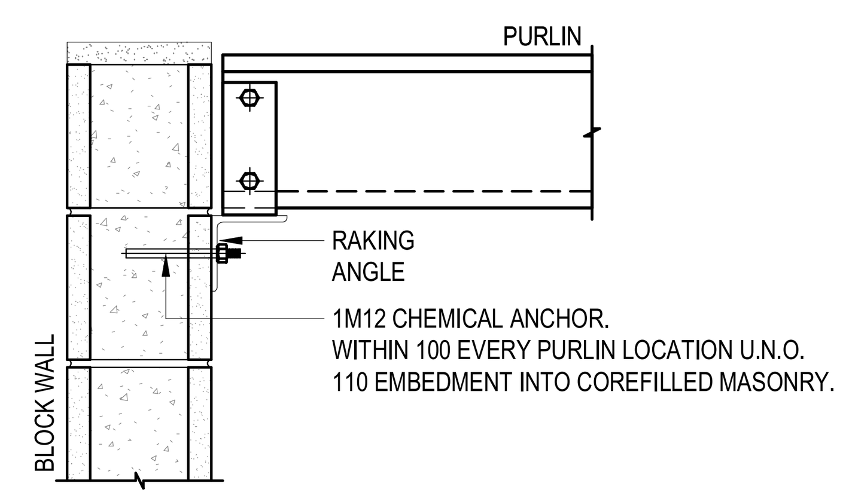


RAKING ANGLE TO STEEL COLUMN

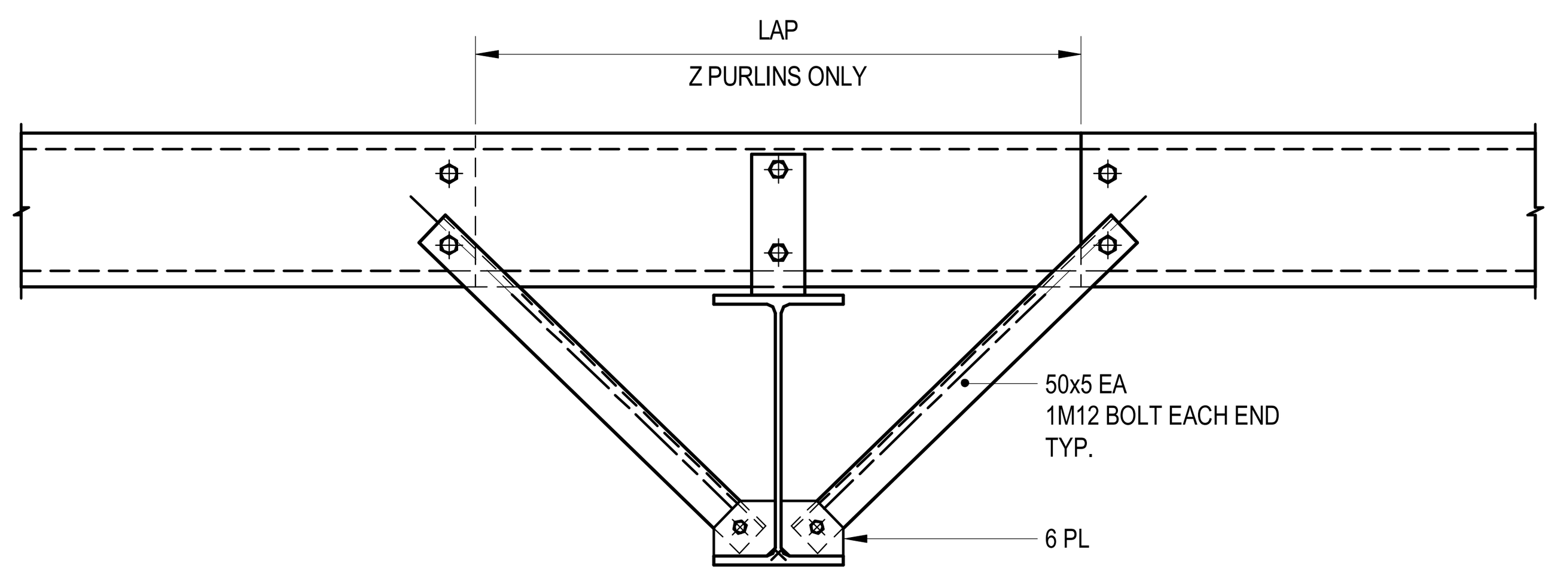


STEEL RAKING ANGLE 'TOE UP' ALTERNATE DETAIL
SCALE 1:10



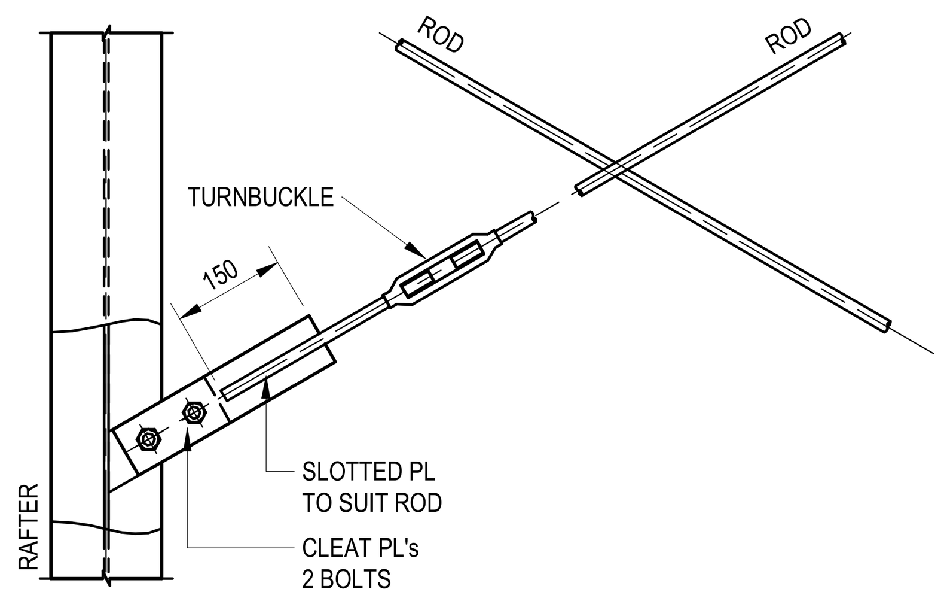
RAKING ANGLE TO BLOCK WALL

TYPICAL RAKING ANGLE TO WALL DETAILS
SCALE 1:10

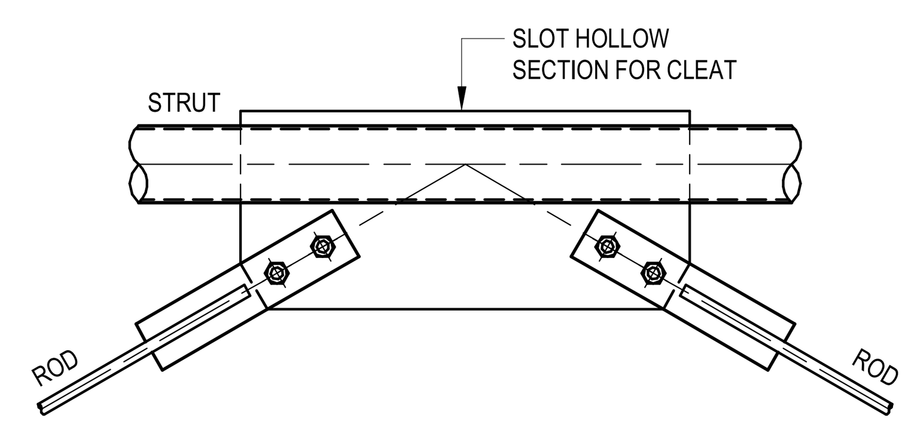


ABOVE RAFTER

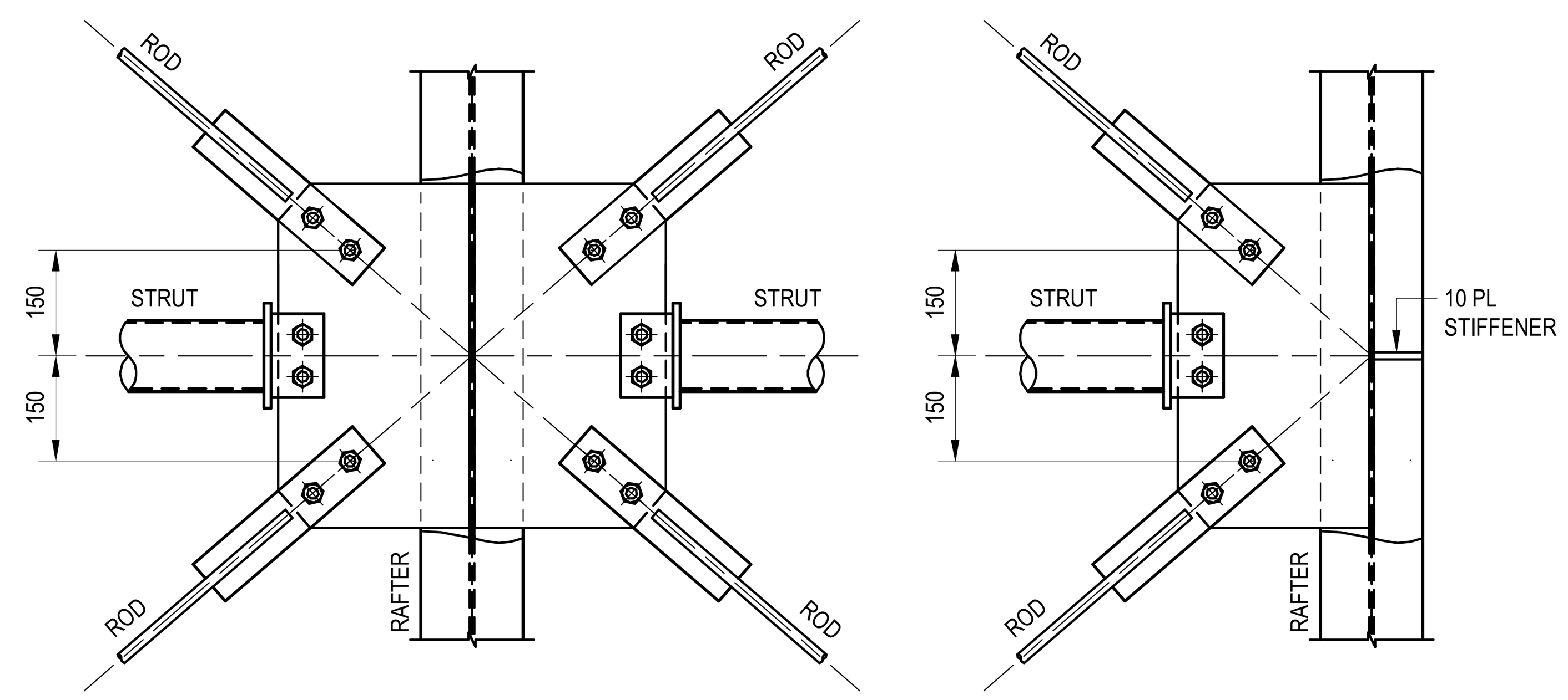
TYPICAL FLY BRACING DETAIL
SCALE 1:10



TYPICAL HORIZONAL CROSS BRACING DETAIL
SCALE 1:10



TYPICAL HORIZONTAL BRACING TO STRUT
SCALE 1:10



TYPICAL HORIZONTAL BRACING & STRUT INTERSECTION DETAIL - ROD
SCALE 1:10

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

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STATUS
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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
TYPICAL FRAMING DETAILS - SHEET 2

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.92	1

03-Apr-20 12:25:00 PM
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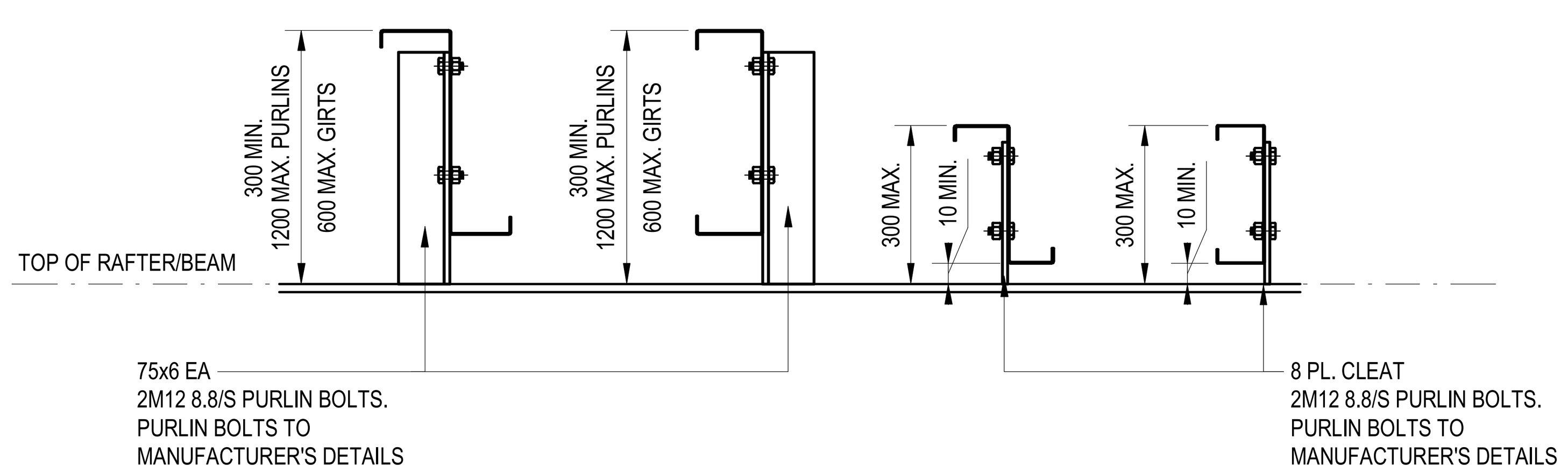
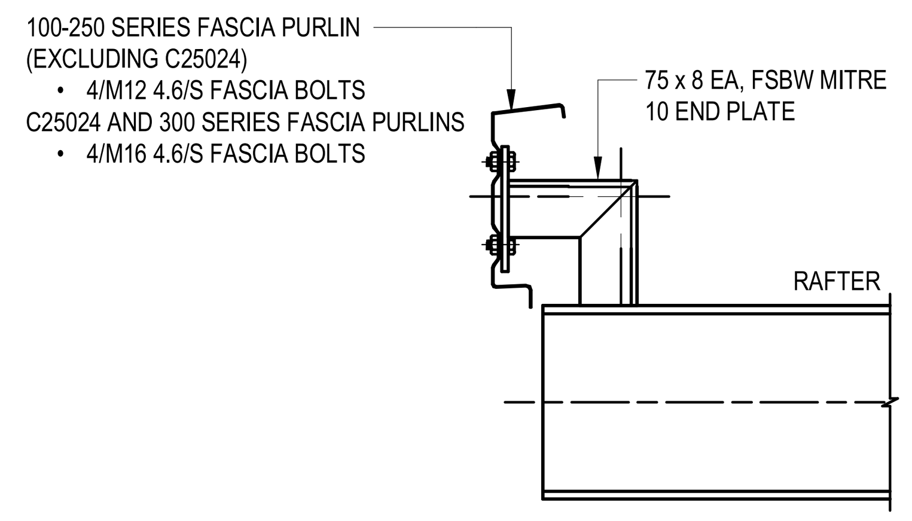
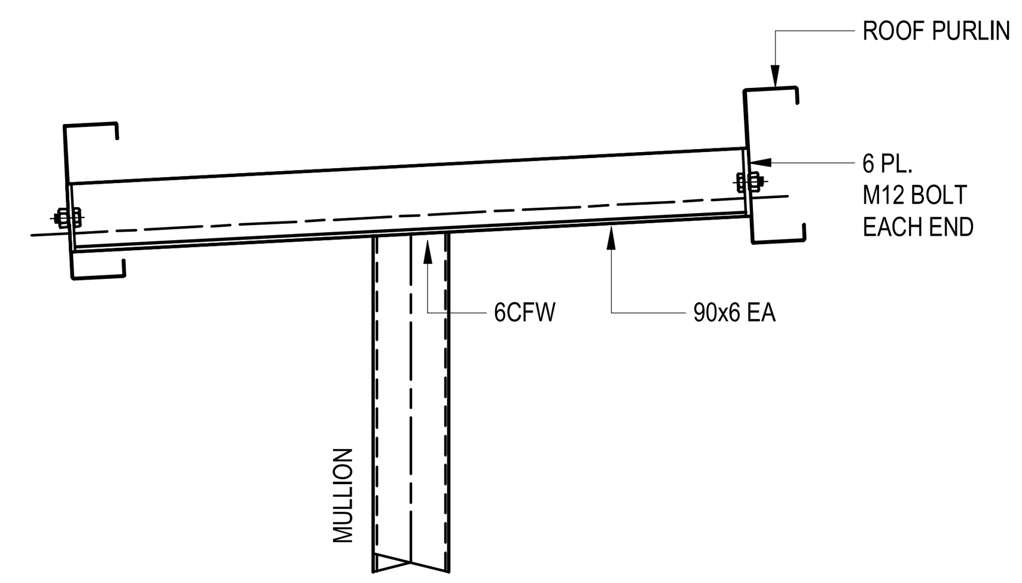


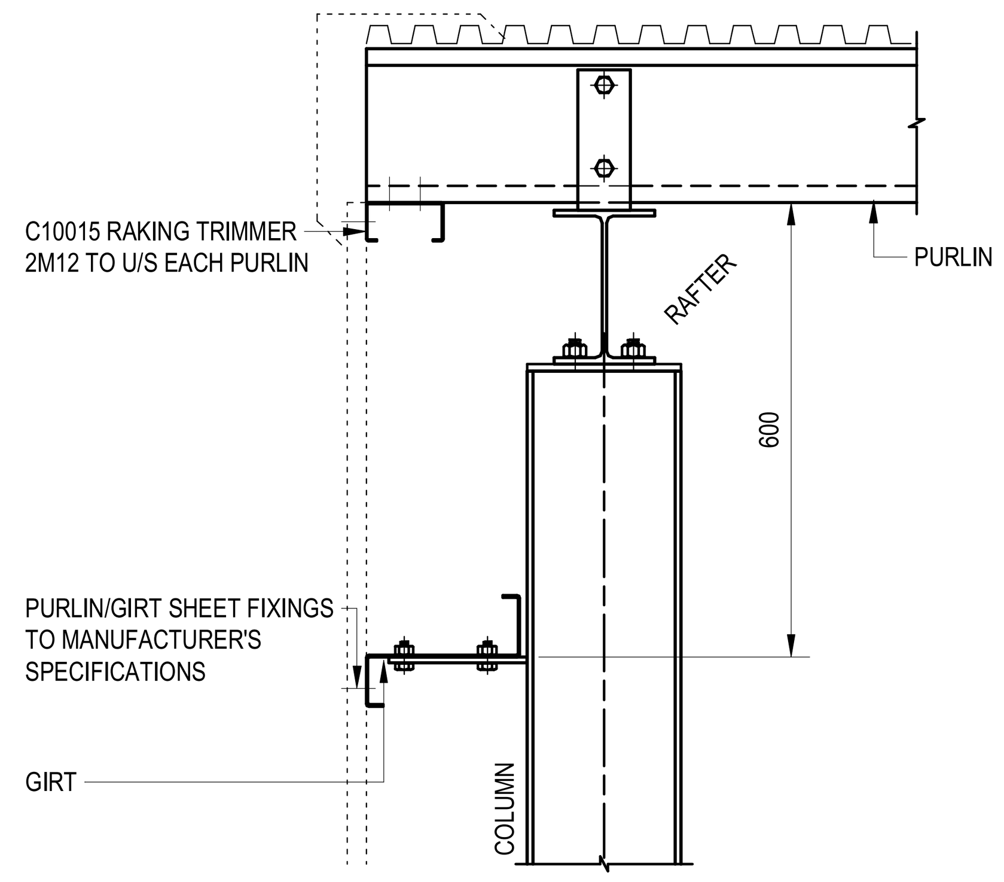
TYPICAL TYPICAL PURLIN & GIRT CLEAT DETAIL
SCALE 1:10



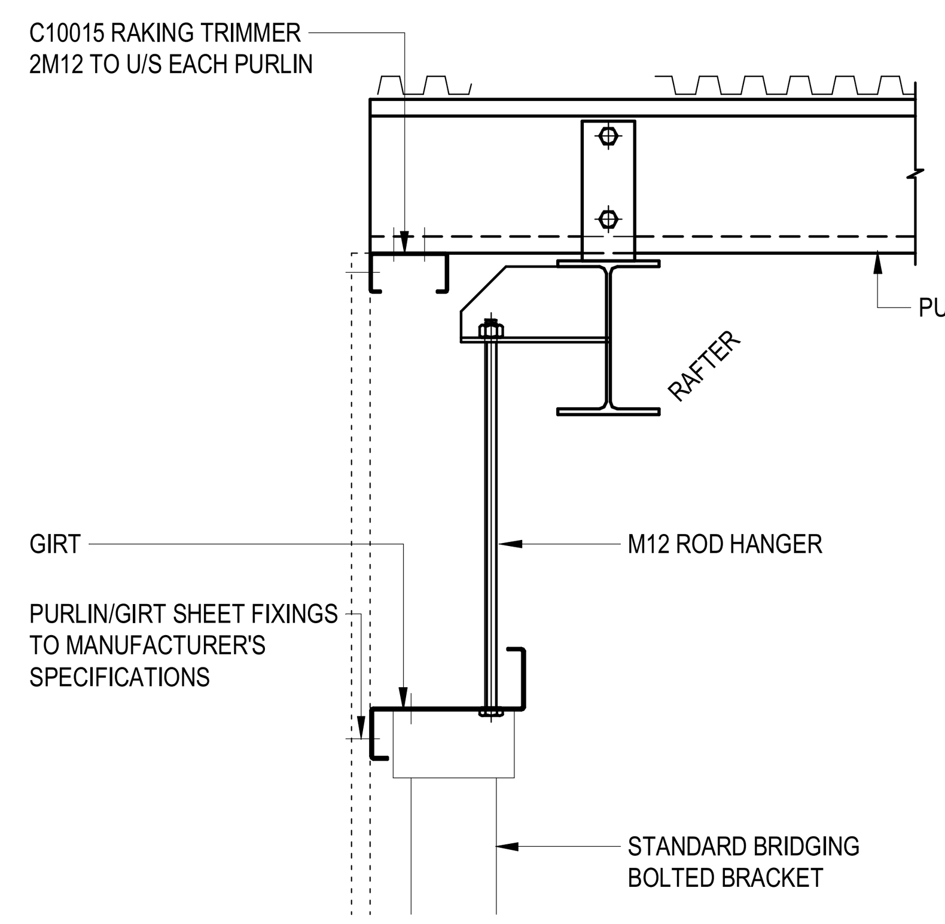
TYPICAL FASCIA PURLIN BRACKET DETAIL
SCALE 1:10



TYPICAL MULLION TO PURLIN DETAIL
SCALE 1:10

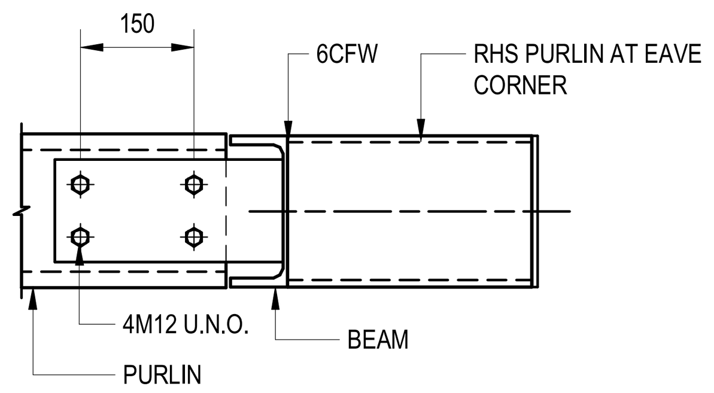


AT BRIDGING

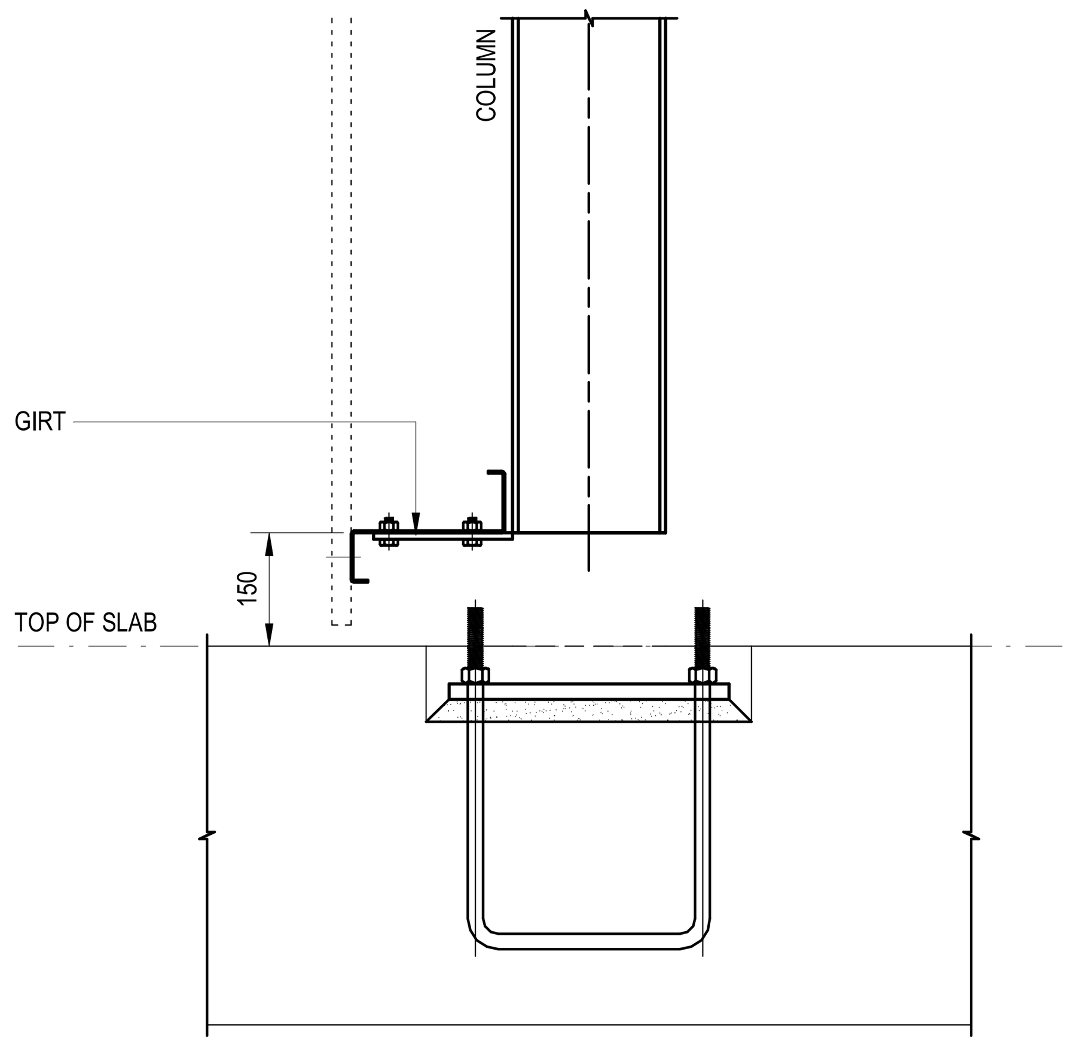


AT SUPPORT

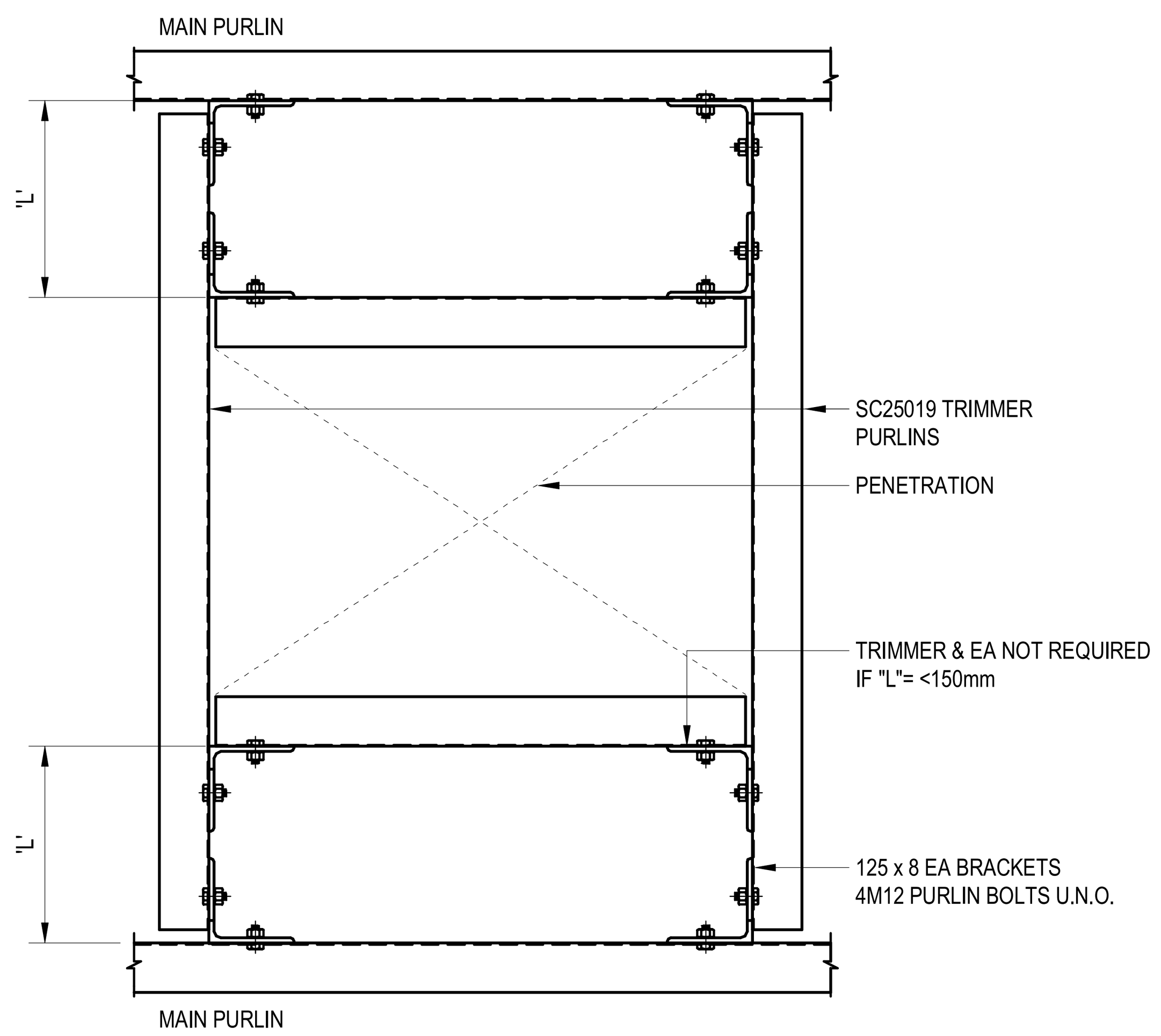
TYPICAL ROOF GABLE END SECTION
SCALE 1:10



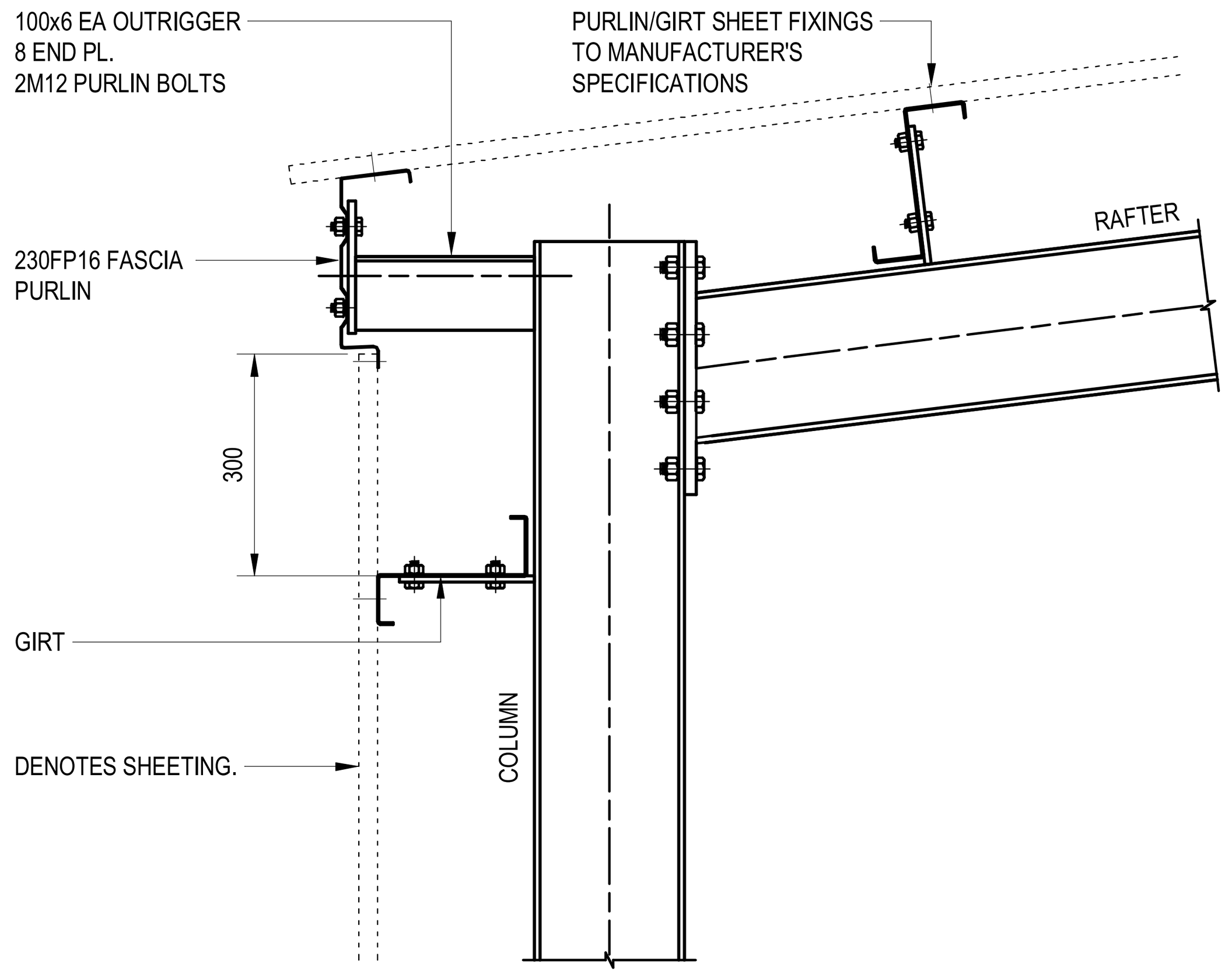
TYPICAL EAVES CORNER TO PURLIN DETAIL
SCALE 1:10



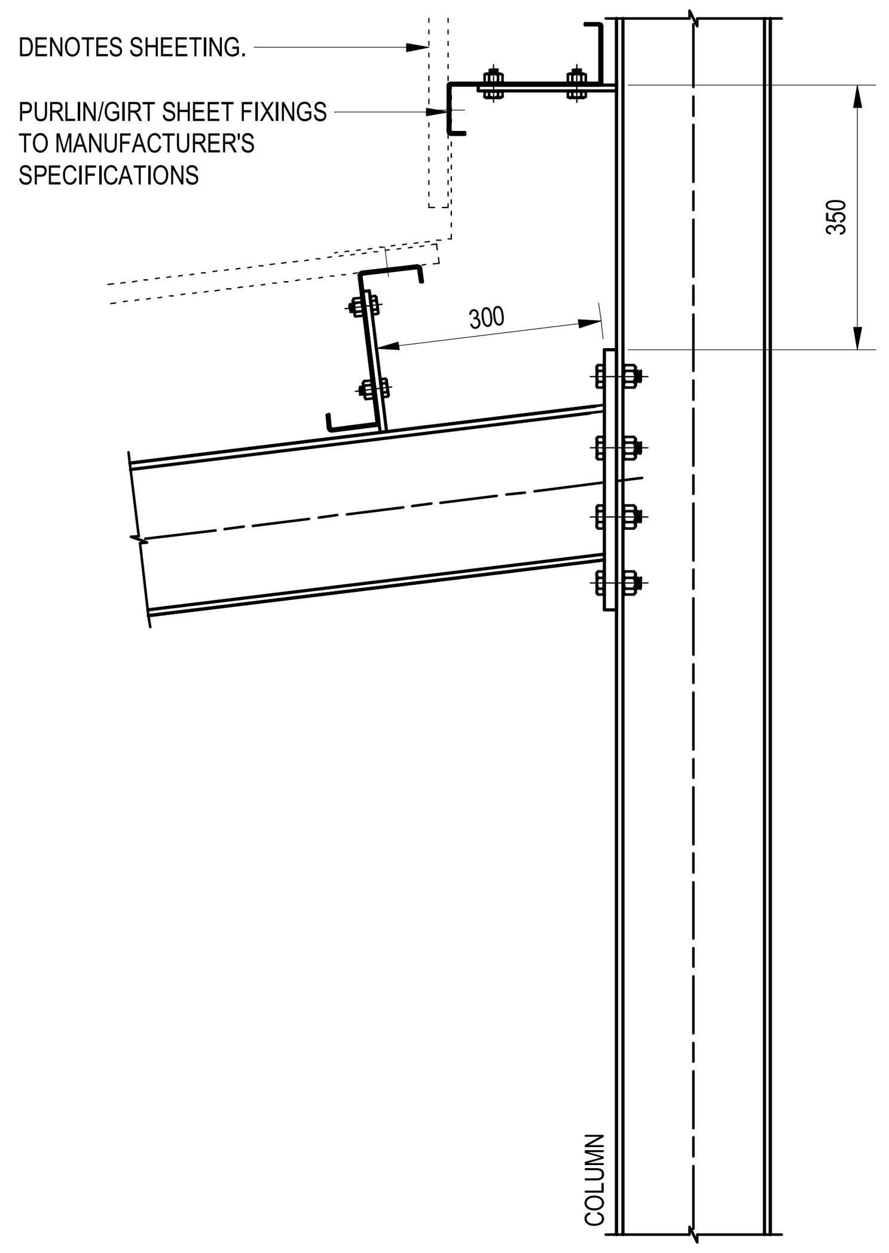
TYPICAL SHEETING AT COLUMN BASE DETAIL
SCALE 1:10



TYPICAL ROOF PENETRATION TRIMMING DETAIL
SCALE 1:10
PROVIDE TO ALL ROOF PENETRATIONS > 200mm SQ.



TYPICAL SHEETING AT KNEE JOINT DETAIL
SCALE 1:10



TYPICAL SHEETING AT ROOF STEP DETAIL
SCALE 1:10

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

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STATUS
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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI
QUEENSLAND 4560

DRAWING TITLE
TYPICAL FRAMING DETAILS - SHEET 3

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.93	1

A1

TIE-DOWN SCHEDULE

ROOF SHEETING AND BATTENS :	AS PER MANUF. SPEC.
BATTENS TO RAFTERS :	WITHIN 1200mm OF EDGE 1/100mm x 3.15∅ GROOVED NAIL (50mm PENETRATION INTO RECEIVING MEMBER) ELSEWHERE 1/75mm x 3.15∅ GROVED NAIL (40mm PENETRATION INTO RECEIVING MEMBER)
RAFTERS TO TOP PLATE :	1 FRAMING ANCHOR PER CONNECTION 4/2.8mm DIA. NAILS EACH END
TOP/BTM PLATE TO STUDS :	30x0.8mm GI STRAP @ 3000 CRS. MAX. 4/2.8mm DIA. NAILS EACH END
BTM PLATE TO FLOOR FRAME/SLAB :	M10 BOLT @ 1800 CRS.
RAFTERS TO VERANDAH PLATE :	1 FRAMING ANCHOR PER CONNECTION 4/2.8mm DIA. NAILS EACH END
VERANDAH PLATE TO POST :	2/M10 BOLTS PER CONNECTION
POST TO RC SLAB :	2/M10 BOLTS VIA GI STIRRUP
STEEL COLUMN TO FLOOR/ROOF FRAME :	2/M10 BOLTS PER CONNECTION VIA 9 PL.

TIE-DOWN SCHEDULE

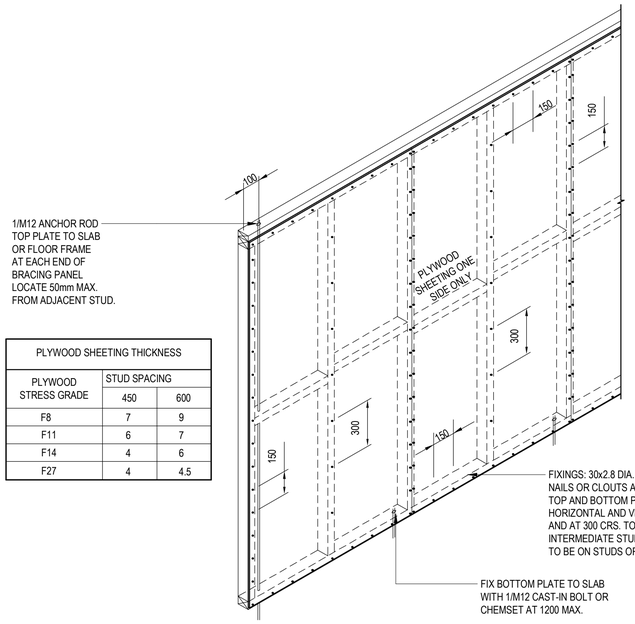
7500 MAX STEEL SHEETED ROOF LOAD WIDTH FOR SINGLE OR UPPER STOREY
6000 MAX STEEL SHEETED ROOF LOAD WIDTH FOR LOWER STOREY OF TWO STOREY

WALL TYPE	COMMON STUDS	TOP PLATE	BOTTOM PLATE	NOGGING	NUMBER OF STUDS, SILL MEMBERS AND LINTEL TRIMMER MEMBERS TO TRIM OPENINGS		
					UP TO 2100	2101 - 3000	3001 - 3600
EXTERNAL LOAD BEARING WALL (SINGLE OR UPPER STOREY) 2.7 HIGH MAX	90x35 MGP12 AT 450 CRS	2/45x90 MGP12	1/35x90 MGP12	35x90 MGP10	(1+1) / 1 / 1	(1+1) / 2 / 2	(2+1) / 2 / 2
EXTERNAL LOAD BEARING WALL (LOWER STOREY OF TWO STOREY) 2.7 HIGH MAX	90x35 MGP12 AT 450 CRS	2/45x90 MGP12	1/35x90 MGP12	35x90 MGP10	(1+1) / 1 / 1	(1+1) / 2 / 2	(2+1) / 2 / 2
INTERNAL LOAD BEARING WALL LOWER STOREY - 2.7 HIGH MAX	90x35 MGP12 AT 450 CRS	2/45x90 MGP12	1/35x90 MGP12	35x90 MGP10	(1+1) / 1 / 1	(1+1) / 1 / 1	(2+1) / 2 / 2
INTERNAL NON-LOAD BEARING WALL 3.0 HIGH MAX	90x35 MGP10 AT 450 CRS	1/35x90 MGP10	1/35x90 MGP10	35x90 MGP10	(1+1) / 1 / 1	(2+1) / 1 / 1	(2+2) / 2 / 2

NOTE:
1. FOR NUMBER OF STUDS, SILL MEMBERS AND LINTEL TRIMMER MEMBERS TO TRIM OPENINGS, (2+1) / 2 / 3 REPRESENTS (2 FULL HEIGHT JAMB STUDS+1 SECONDARY JAMB STUD) / 2 SILL MEMBERS / 3 LINTEL TRIMMER MEMBERS.
2. PROVIDE 1 ROW OF NOGGINGS AT MID HEIGHTS OF STUDS.
3. LOAD BEARING WALL PLATES AND STUDS SHALL NOT BE TRENCHED, HOUSED OR NOTCHED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
4. FIX TOP PLATE OVER LINTELS WITHIN 100mm OF TRUSSES WITH 30 x 0.8mm G.I. STRAP 6/2.8mm ∅ NAILS EACH END
5. PROVIDE M12 ANCHOR RODS TO LOAD BEARING WALLS AT CORNERS ADJACENT TO OPENINGS AND AT 1200 MAX. CRS U.N.O.
6. PROVIDE TERMITE PROTECTION TO AS3660.1

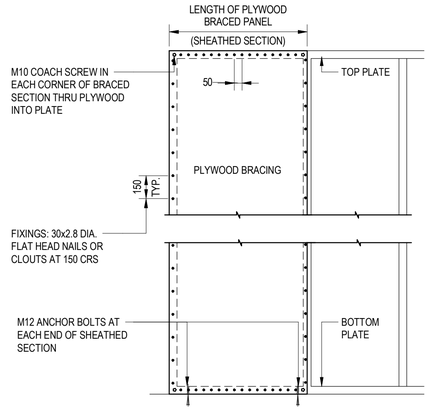
ROOF BATTENS:
PROVIDE LYSAGHT TOP SPAN 40 BATTENS, OR APPROVED EQUIVALENT, AT 900 CRS WITHIN 900 OF EAVES & RIDGES, FIX TO TRUSSES WITH 2/11x25 SELF TAPPING SCREWS.

ROOF TRUSSES:
- TRUSSES GENERALLY AT 900 MAX CRS.
- DESIGNATIONS:
  - ST - STANDARD TRUSS
  - HT - HIP TRUSS
  - JT - JACK TRUSS
  - GT - GIRDER TRUSS
- TRUSS LAYOUT SHOWN INDICATIVE ONLY. FINAL TRUSS LAYOUT, DESIGN & SPECIFICATION TO BE CARRIED OUT BY MANUFACTURER AND SUBMITTED TO ENGINEER FOR VERIFICATION PRIOR TO FABRICATION.
- FIX TO EXTERNAL WALL TOP PLATE USING:-
  - 1/FRAMING ANCHOR 4/2.8mm ∅ NAILS EACH LEG FOR SPANS NOT EXCEEDING 4800mm;
  - 2/FRAMING ANCHORS (SIMILAR) FOR SPANS NOT EXCEEDING 9600mm;
  - OTHERWISE USE 30 x 0.8mm G.I. LOOPED STRAP 4/2.8mm ∅ NAILS EACH END.
- INTERNAL TRUSS CONNECTIONS AND GIRDER TRUSS TIE DOWN SHALL BE AS SPECIFIED BY MANUF.
- BUILDER TO ALLOW FOR ALL TRUSS MANUF. REQUIREMENTS PERTAINING TO TIE DOWN, BRACING AND SUPPORT.

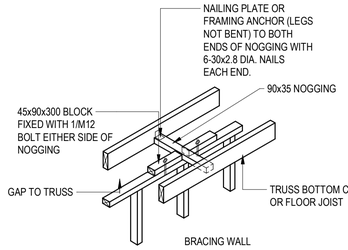


PLYWOOD SHEETING THICKNESS		
PLYWOOD STRESS GRADE	STUD SPACING	
	450	600
F8	7	9
F11	6	7
F14	4	6
F27	4	4.5

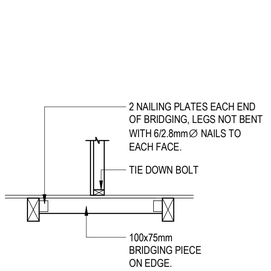
TYPICAL PLYWOOD BRACING WALL DETAIL
SCALE 1:20



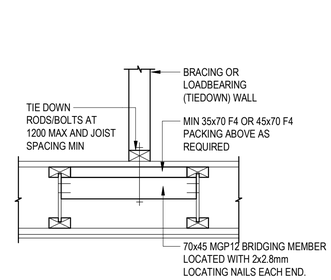
TYPICAL SHORT WALL PLYWOOD BRACING DETAIL
SCALE 1:20
NOTE: LENGTH LESS THAN 900mm



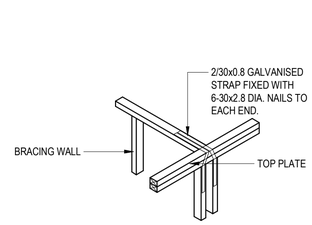
PARALLEL TO TRUSSES OR FLOOR JOISTS



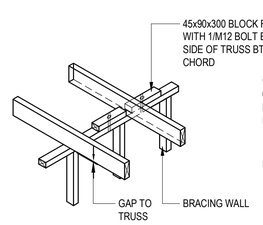
BOTTOM PLATE TO FLOOR



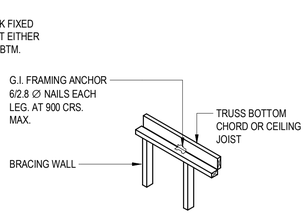
BRACING WALL TO FLOOR FRAMING



PERPENDICULAR TO WALL



PERPENDICULAR TO TRUSSES

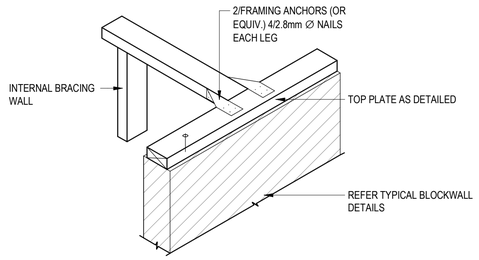


PARALLEL TO TRUSSES OR CEILING JOISTS

TYPICAL BRACING WALL TO ROOF FIXING DETAILS
SCALE 1:20
NOTE: PROVIDE FIXINGS AS DETAILED, EACH ENDOF DESIGNATED BRACING PANELS AND 1200MAX. CRS FOR PANELS EXCEEDING 1800mm IN LENGTH.

ALL OTHER DETAILS NOT SHOWN
TO BE IN ACCORDANCE WITH AS1684.2

TYPICAL BRACING WALL/TIE DOWN TO FLOOR FRAMING DETAILS
SCALE 1:20



TYPICAL INTERNAL - EXTERNAL BRACING WALL FIXING
SCALE 1:20

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS
TENDER
NOT FOR CONSTRUCTION

CLIENT
designtek

calibre
calibregroup.com

PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

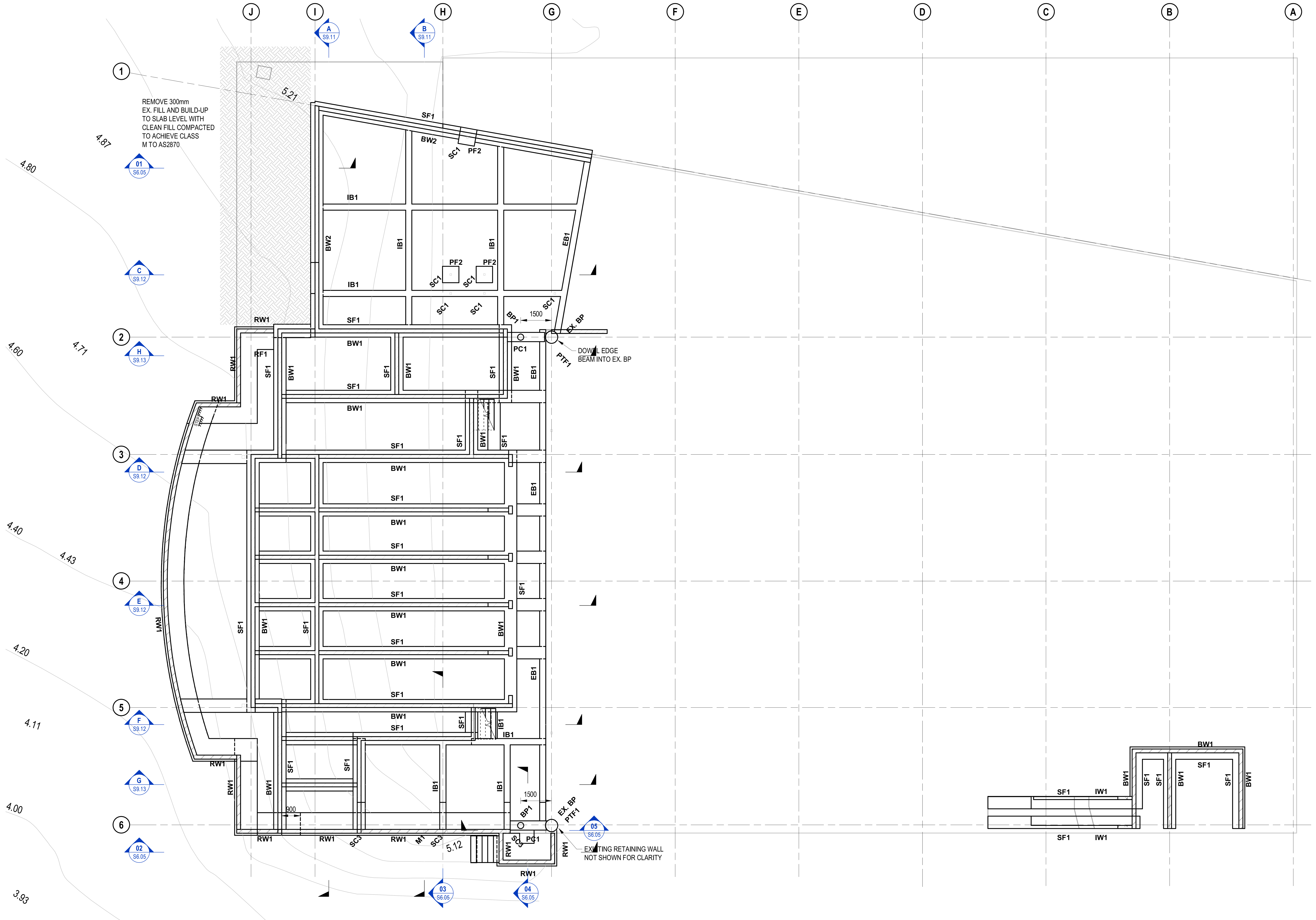
DRAWING TITLE
TYPICAL FRAMING DETAILS - SHEET 4

PROJECT No.	DRAWING No.	REVISION
20-000180	S1.94	1

A1

LEGEND

- DENOTES PAD FOOTING. REFER SCHEDULE (PF1)
- DENOTES STRUCTURE (LOAD BEARING) UNDER
- SF1 — DENOTES STRIP FOOTING. REFER SCHEDULE.
- CW1 — DENOTES REINFORCED CONCRETE WALL OVER. REFER SCHEDULE
- BW1 — DENOTES BLOCKWALL OVER. REFER SCHEDULE
- RW1 — DENOTES RETAINING WALL OVER. REFER SCHEDULE
- DENOTES VOID IN SLAB
- DENOTES SITE BOUNDARY LINE
- DENOTES STEP DOWN FROM TOP OF SLAB



FOOTING PLAN

SCALE: 1 : 100

BORED PIER SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	DIAMETER	CONCRETE GRADE (MPa)	REINFORCEMENT VERTICAL	REINFORCEMENT TIES
BP1	300	32	6N16	R8-200 HELIX

PILE CAP SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (L x W x D)	CONCRETE GRADE (MPa)	REINFORCEMENT BOTTOM	REINFORCEMENT TOP	REINFORCEMENT TIES
PC1	1800(L)x450(W)x450(D)	32	3N16	3N16	N12-200

GROUND BEAM SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (W x D)	CONCRETE GRADE (MPa)	REINFORCEMENT BOTTOM	REINFORCEMENT TOP	REINFORCEMENT TIES
EB1	300(W)x400(D)	32	L-11TM	2N12	N12-300
GB1	650(W)x450(D)	32	5N20	5N20	N12-200
IB1	300(W)x400(D)	32	L-11TM	2N12	N12-300

PAD FOOTING SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (L x W x D)	REINFORCEMENT BOTTOM	REINFORCEMENT TOP
PF2	800(L)x800(W)x450(D)	N12-200 EW	N12-200 EW

STRIP FOOTING SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (W x D)	CONCRETE GRADE (MPa)	REINFORCEMENT BOTTOM	REINFORCEMENT TOP	REINFORCEMENT TIES
SF1	600(W)x400(D)	32	3N16	3N16	R10-200

WALL SCHEDULE

REFER TO DRG. S1.41 FOR DETAILS

MARK	WIDTH	HORIZONTAL	VERTICAL	COMMENTS
BW1	190	N12-400	N12-400	BLOCK
BW2	190	N12-400	N12-400	BLOCK
IW1	150	N12-200	N12-200	INSITU
RW1	190	N12-200	N12-200	RETAINING

STEEL COLUMN SCHEDULE

REFER TO DRG. S1.91 - S1.94 FOR DETAILS

MARK	SIZE	COMMENTS
DJ1	150x100x5.0 RHS	DOOR JAMB
EX. C1	250UB26	EXISTING COLUMN
EX.C2	89x6.0 SHS	EXISTING COLUMN
M1	89x6.0 SHS	MULLION
M2	100x6.0 SHS	MULLION
PTF1	310UB40.4	PORTAL FRAME COLUMN
SC1	89x6.0 SHS	STEEL COLUMN
SC2	125x5.0 SHS	STEEL COLUMN
SC3	150x100x5.0 RHS	STEEL COLUMN
SC5	150x5.0 SHS	STEEL COLUMN

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	31.03.20	COORDINATION ISSUE	MJ	MS
2	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS

TENDER

NOT FOR CONSTRUCTION

CLIENT

designtek

calibre

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PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

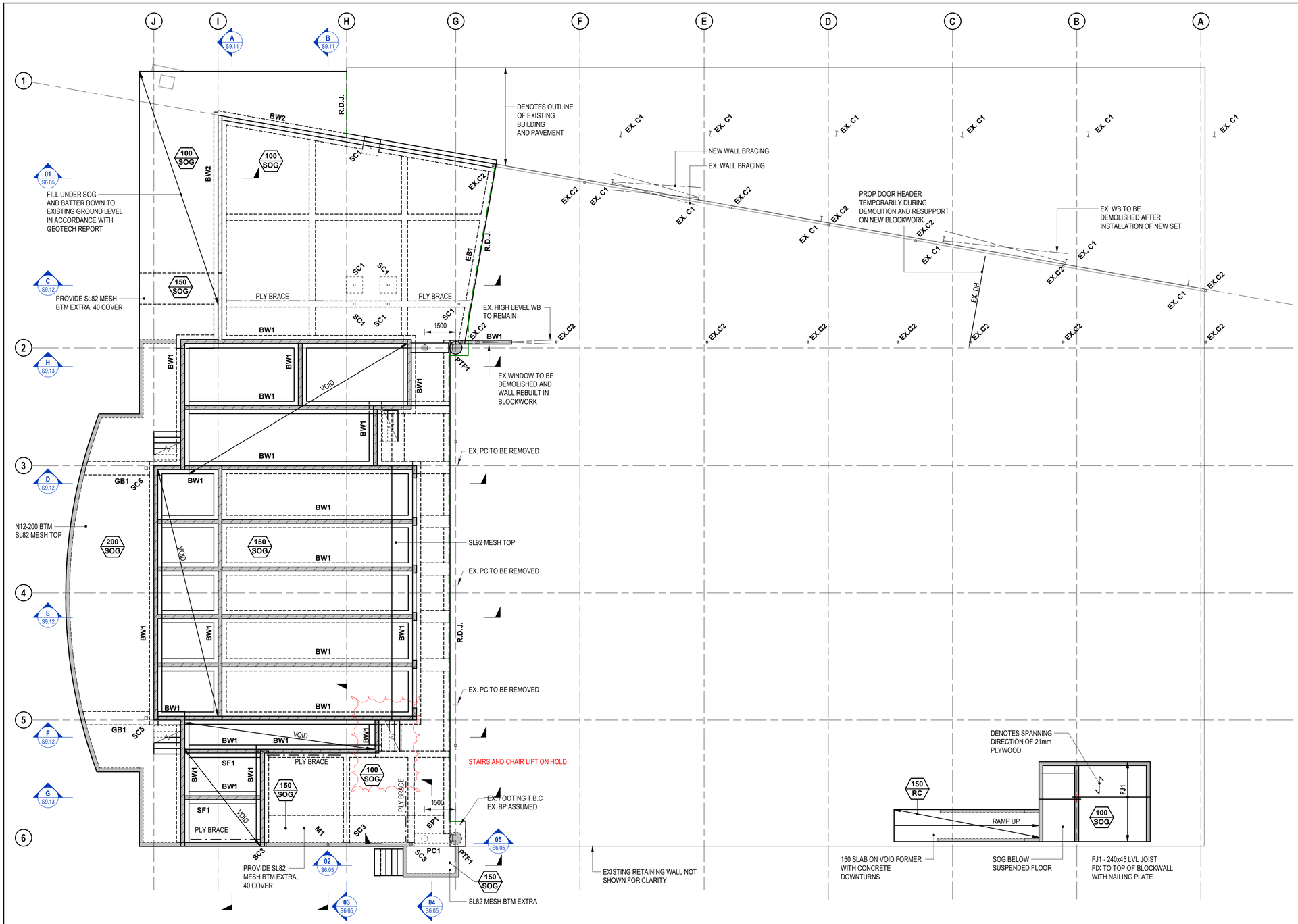
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

FOOTING PLAN

PROJECT No.	DRAWING No.	REVISION
20-000180	S2.21	2

A1



GROUND FLOOR GENERAL ARRANGEMENT PLAN

SCALE: 1 : 100

LEGEND

- 100 SOG — DENOTES SLAB MINIMUM THICKNESS & TYPE OF SLAB
- DENOTES STRUCTURE (LOAD BEARING) UNDE
- CW1 — DENOTES REINFORCED CONCRETE WALL OVER. REFER SCHEDULE
- BW1 — DENOTES BLOCKWALL OVER. REFER SCHEDULE
- RW1 — DENOTES RETAINING WALL OVER. REFER SCHEDULE
- DENOTES VOID IN SLAB
- R.D.J. — DENOTES CONSTRUCTION JOINT
- STEP — DENOTES STEP DOWN FROM TOP OF SLAB
- DENOTES SPAN DIRECTION
- PROVIDE 2N12 x 1200 LONG, TOP TO ALL RE-ENTRANT & INTERNAL CORNERS OF SLAB

BORED PIER SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	DIAMETER	CONCRETE GRADE (MPa)	REINFORCEMENT	
			VERTICAL	TIES
BP1	300	32	6N16	R8-200 HELIX

PILE CAP SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (L x W x D)	CONCRETE GRADE (MPa)	REINFORCEMENT		
			BOTTOM	TOP	TIES
PC1	1800(L)x450(W)x450(D)	32	3N16	3N16	N12-200

GROUND BEAM SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (W x D)	CONCRETE GRADE (MPa)	REINFORCEMENT		
			BOTTOM	TOP	TIES
EB1	300(W)x400(D)	32	L-11TM	2N12	N12-300
GB1	650(W)x450(D)	32	5N20	5N20	N12-200
IB1	300(W)x400(D)	32	L-11TM	2N12	N12-300

PAD FOOTING SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (L x W x D)	REINFORCEMENT	
		BOTTOM	TOP
PF2	800(L)x800(W)x450(D)	N12-200 EW	N12-200 EW

STRIP FOOTING SCHEDULE

REFER TO DRG. S1.21 & S1.22 FOR DETAILS

MARK	SIZE (W x D)	CONCRETE GRADE (MPa)	REINFORCEMENT		
			BOTTOM	TOP	TIES
SF1	600(W)x400(D)	32	3N16	3N16	R10-200

WALL SCHEDULE

REFER TO DRG. S1.41 FOR DETAILS

MARK	WIDTH	HORIZONTAL	VERTICAL	COMMENTS
BW1	190	N12-400	N12-400	BLOCK
BW2	190	N12-400	N12-400	BLOCK
IW1	150	N12-200	N12-200	INSITU
RW1	190	N12-200	N12-200	RETAINING

STEEL COLUMN SCHEDULE

REFER TO DRG. S1.91 - S1.94 FOR DETAILS

MARK	SIZE	COMMENTS
DJ1	150x100x5.0 RHS	DOOR JAMB
EX. C1	250UB26	EXISTING COLUMN
EX.C2	89x6.0 SHS	EXISTING COLUMN
M1	89x6.0 SHS	MULLION
M2	100x6.0 SHS	MULLION
PTF1	310UB40.4	PORTAL FRAME COLUMN
SC1	89x6.0 SHS	STEEL COLUMN
SC2	125x5.0 SHS	STEEL COLUMN
SC3	150x100x5.0 RHS	STEEL COLUMN
SC5	150x5.0 SHS	STEEL COLUMN

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	31.03.20	COORDINATION ISSUE	MJ	MS
2	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS: **TENDER** — NOT FOR CONSTRUCTION

CLIENT: designtek

calibre — calibregroup.com

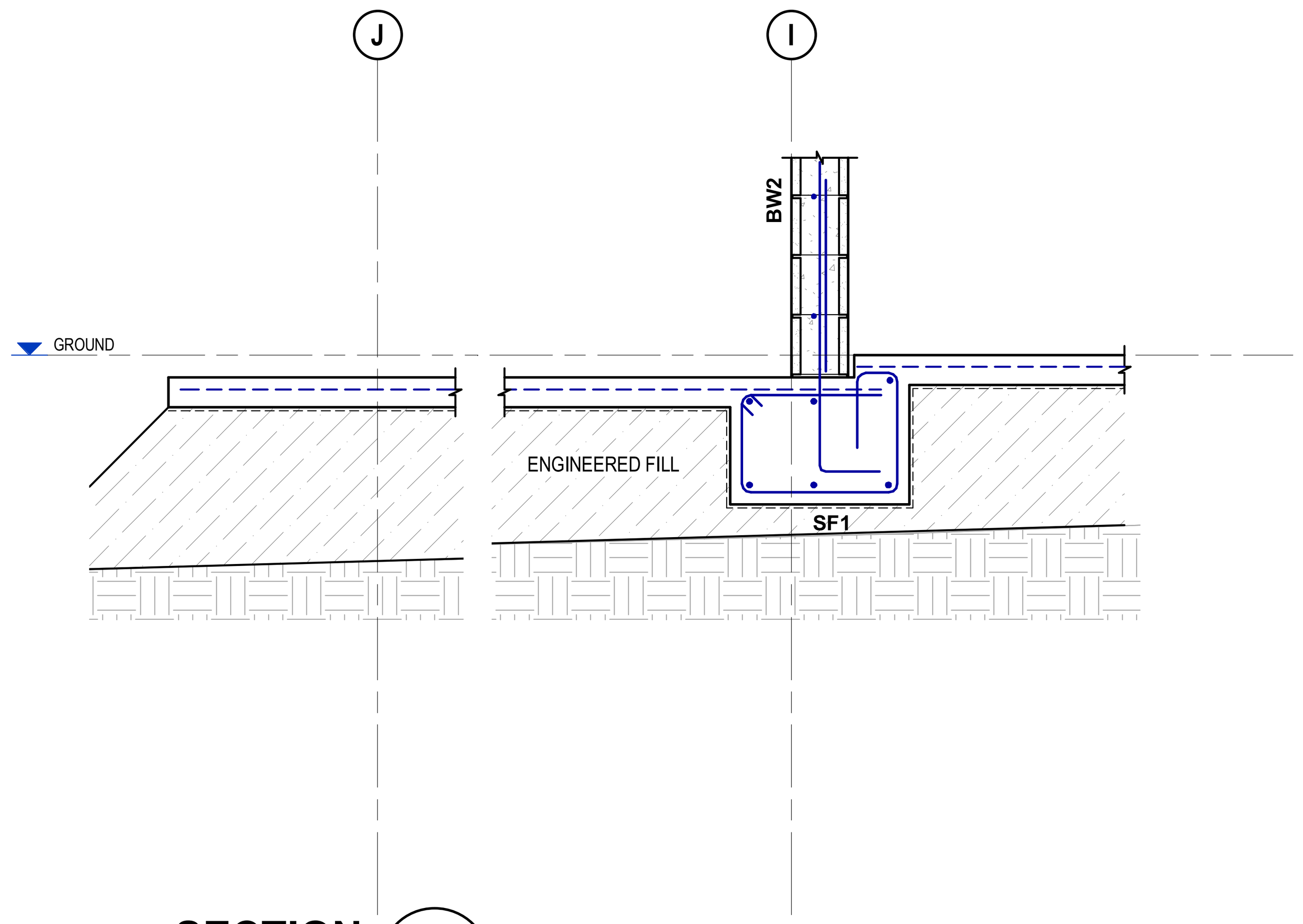
PROJECT: **PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL**

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

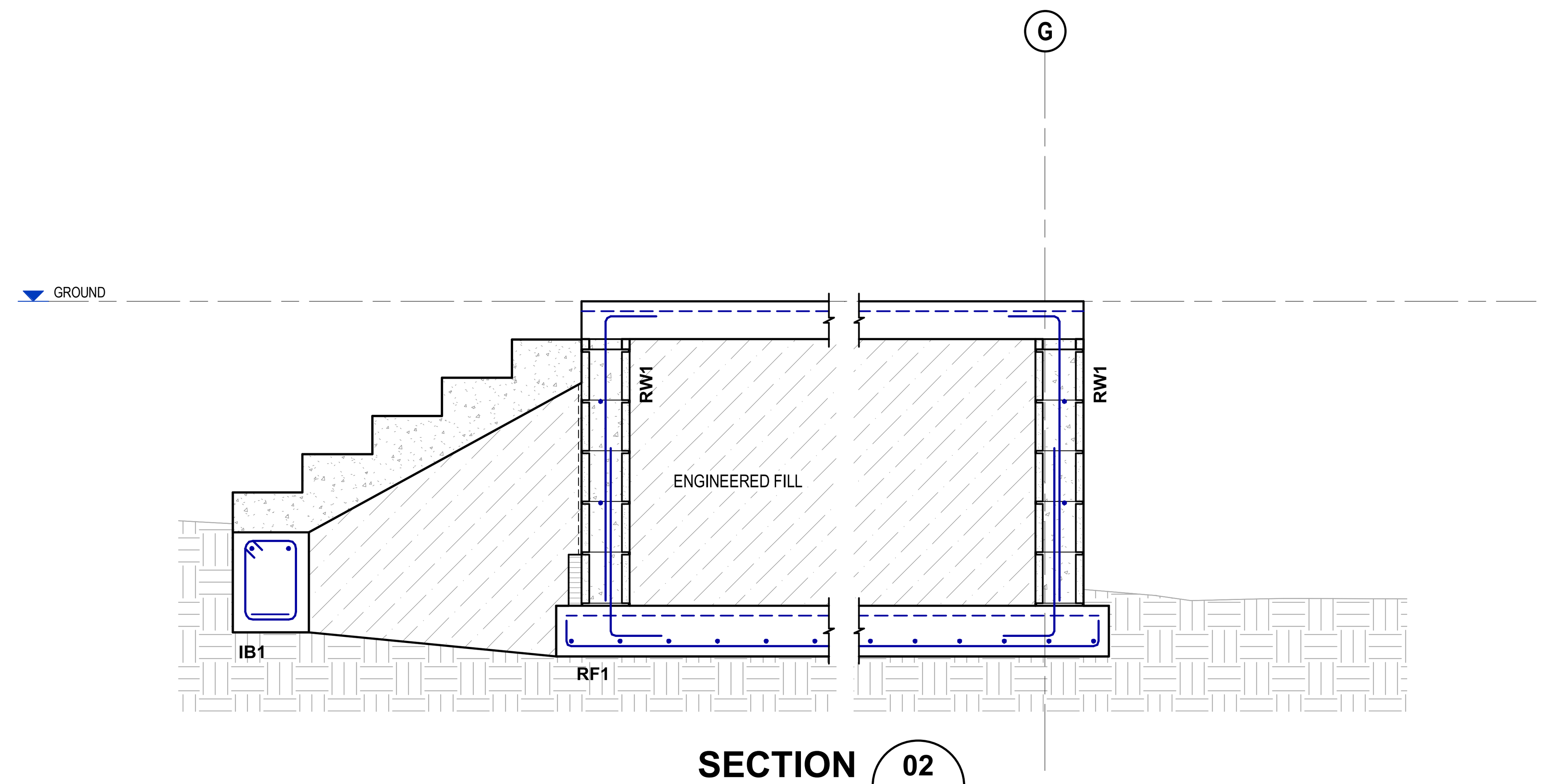
DRAWING TITLE: **GROUND FLOOR GENERAL ARRANGEMENT PLAN**

PROJECT No.	DRAWING No.	REVISION
20-000180	S6.01	2

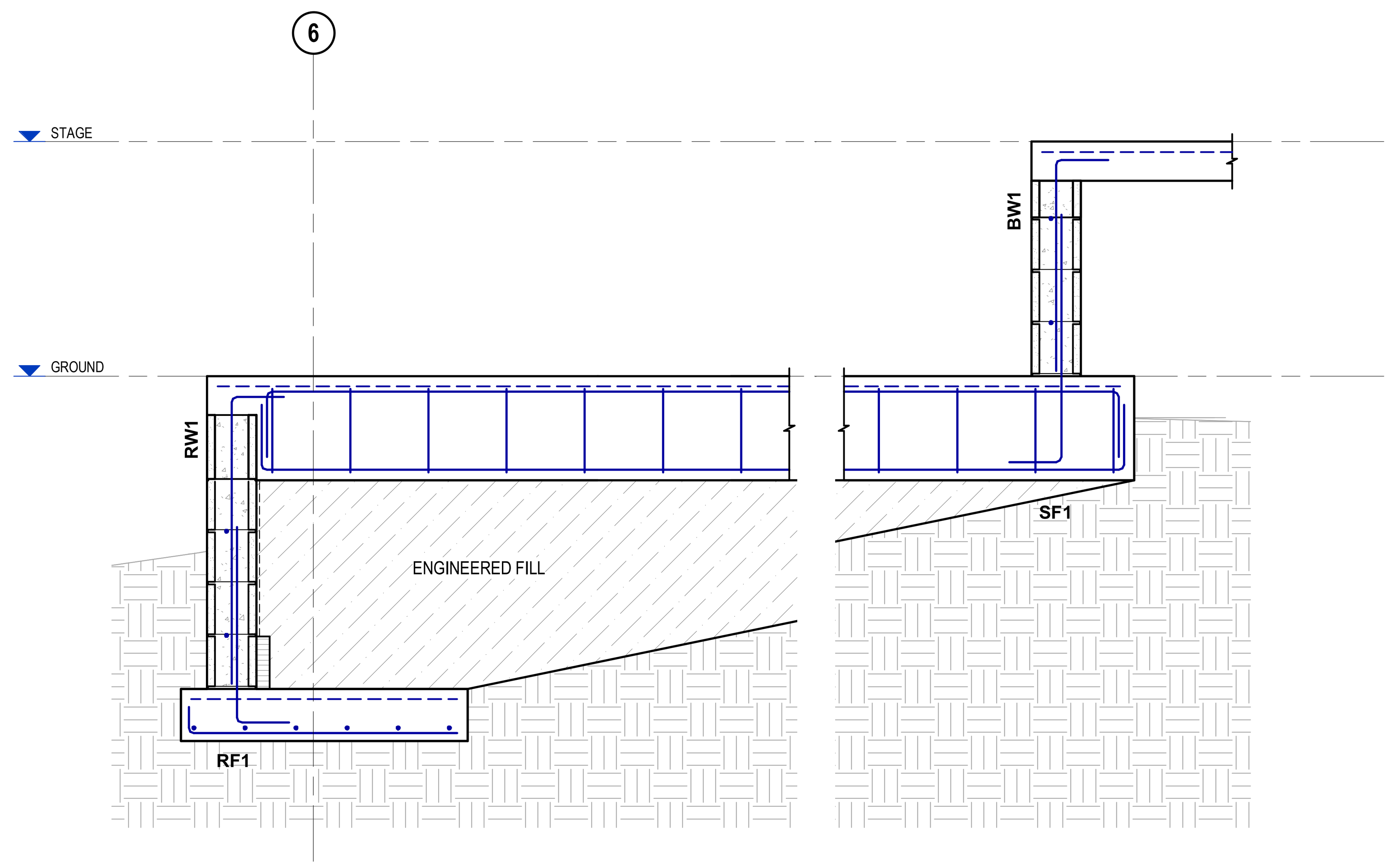
A1



SECTION 01 — S2.21
SCALE: 1 : 20



SECTION 02 — S2.21
SCALE: 1 : 20



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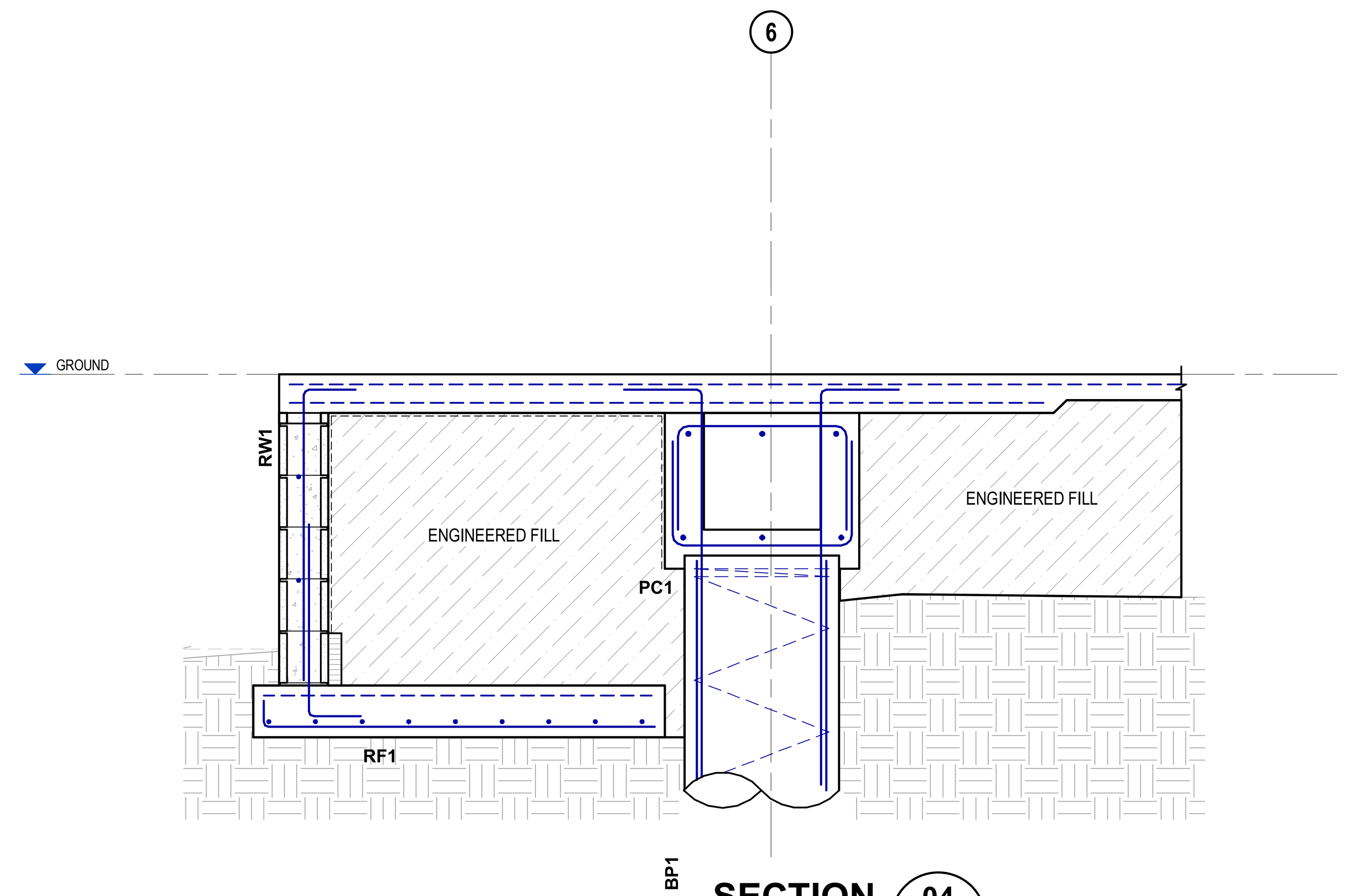

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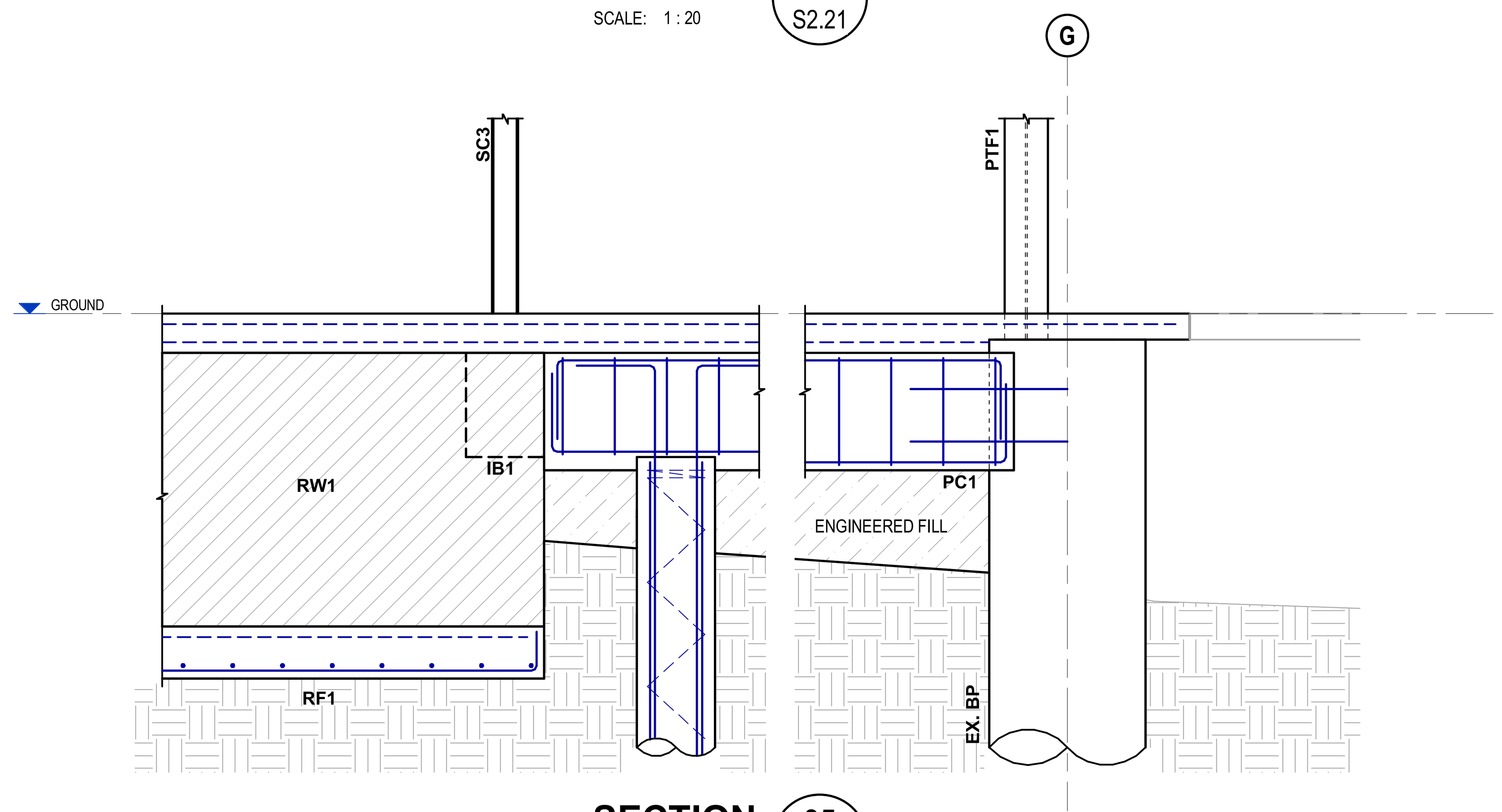
SCALE: 1 : 20



SECTION 05 — S2.21
SCALE: 1 : 20

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS
TENDER
NOT FOR CONSTRUCTION

CLIENT
designtek

calibre

calibregroup.com

PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI
QUEENSLAND 4560

DRAWING TITLE
GROUND FLOOR SECTIONS

PROJECT No.	DRAWING No.	REVISION
20-000180	S6.05	1

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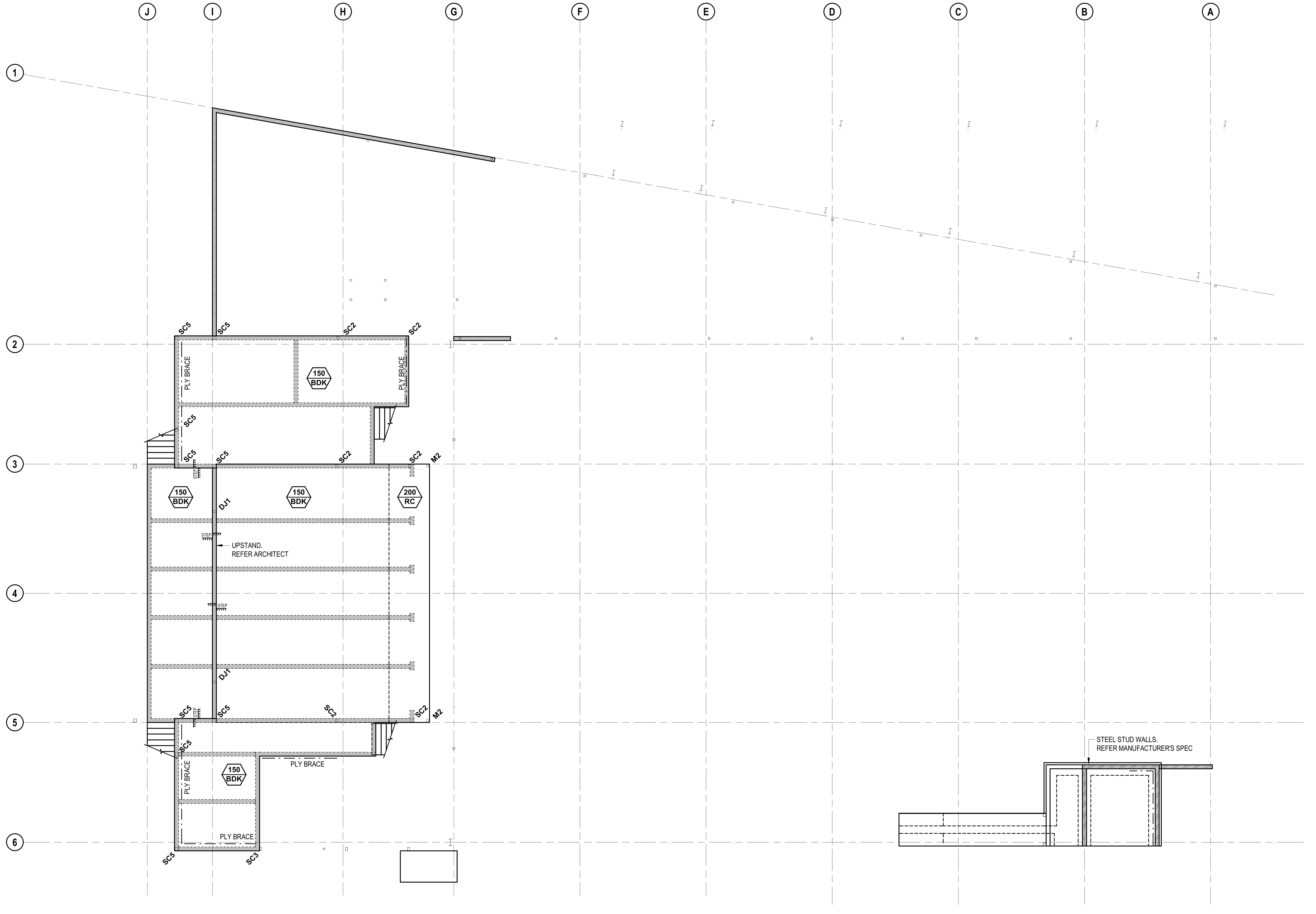
A1



STAGE GENERAL ARRANGEMENT PLAN

SCALE: 1 : 100

LEGEND

- DENOTES SLAB MINIMUM THICKNESS & TYPE OF SLAB (150 BDK)
- DENOTES STRUCTURE (LOAD BEARING) UNDER
- CW1 — DENOTES REINFORCED CONCRETE WALL OVER. REFER SCHEDULE
- BW1 — DENOTES BLOCKWALL OVER. REFER SCHEDULE
- RW1 — DENOTES RETAINING WALL OVER. REFER SCHEDULE
- DENOTES VOID IN SLAB
- R.D.J — DENOTES RETROFIT DOWELLED JOINT
- DENOTES SITE BOUNDARY LINE
- STEP — DENOTES STEP DOWN FROM TOP OF SLAB
- DENOTES SPAN DIRECTION
- PROVIDE 2N12 x 1200 LONG, TOP TO ALL INTERNAL CORNERS OF FLOOR SLAB

REINFORCEMENT SCHEDULE

150 BDK - SL92 MESH + N12-400 TOP. COVER COVER
200 RC - N12-200 EW TOP & BTM. LAP TOP REINFORCEMENT WITH BDK

STEEL COLUMN SCHEDULE

REFER TO DRG. S1.91 - S1.94 FOR DETAILS

MARK	SIZE	COMMENTS
DJ1	150x100x5.0 RHS	DOOR JAMB
EX. C1	250UB26	EXISTING COLUMN
EX.C2	89x6.0 SHS	EXISTING COLUMN
M1	89x6.0 SHS	MULLION
M2	100x6.0 SHS	MULLION
PTF1	310UB40.4	PORTAL FRAME COLUMN
SC1	89x6.0 SHS	STEEL COLUMN
SC2	125x5.0 SHS	STEEL COLUMN
SC3	150x100x5.0 RHS	STEEL COLUMN
SC5	150x5.0 SHS	STEEL COLUMN

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	31.03.20	COORDINATION ISSUE	MJ	MS
2	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS

TENDER

NOT FOR CONSTRUCTION

CLIENT

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PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

STAGE GENERAL ARRANGEMENT PLAN

PROJECT No.	DRAWING No.	REVISION
20-000180	S6.11	2

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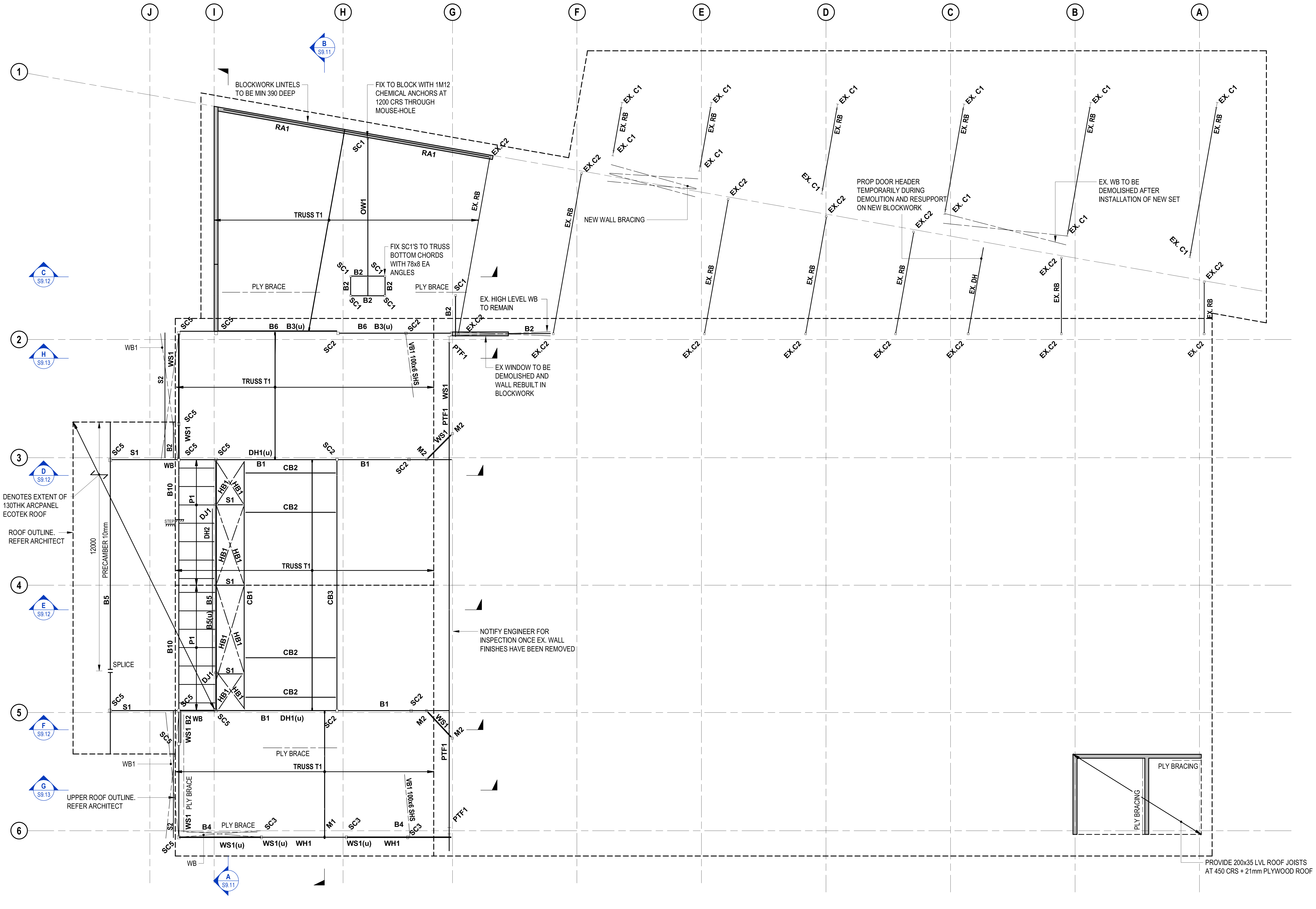
A1



ROOF FRAMING PLAN

SCALE: 1 : 100

LEGEND

- DENOTES STRUCTURE (LOAD BEARING) UNDER
- SC1 — DENOTES COLUMN OVER. REFER TO SCHEDULE
- (u) — DENOTES ELEMENT UNDER
- FB — DENOTES FLYBRACE. REFER TYPICAL DETAIL.
- SPLICE — DENOTES SPLICE. REFER TYPICAL DETAIL.
- RA1 — DENOTES RAKING ANGLE. FIX WITH 1/M16 CHEM ANCHOR ADJACENT TO EVERY TRUSS AND 100mm FROM EACH END
- S2 — DENOTES STRUT - 89x6 SHS
- B2 — DENOTES BEAM
- DH2 — DENOTES BEAM 150x100x4 RHS

NOTES:

- PROVIDE 75x6EA AS SEAT PLATE TO ALL BEAMS THAT HAVE TRUSSES FIXING TO THEM
- PROVIDE C15015 GIRT AT 900CRS WITH 1 ROW OF BRIDGING TO ALL EXTERNAL WALL PANELS
- TRUSSES TO MANUFACTURER'S SPECIFICATION

STEEL FRAMING SCHEDULE

REFER TO DRG. S1.92 FOR DETAILS

MARK	SIZE	COMMENTS
B1	250UB25.7	BEAM
B2	150 PFC	BEAM
B3	230 PFC	BEAM
B4	150UC23.4	BEAM
B5	250x150x6.0 RHS	BEAM
B6	250 PFC	BEAM WITH 75x6 EA
B10	250 PFC	BEAM
CB1	250x150x6.0 RHS	CURTAIN BEAM. MAX 25KG/M2
CB2	150 PFC	CURTAIN BEAM. MAX 25KG/M2
CB3	310UB46.2	CURTAIN BEAM. MAX 25KG/M2
DH1	250 PFC	DOOR HEADER
HB1	M16 ROD	HORIZONTAL BRACING
OW1	200UC46.2	OPERABLE WALL HEADER. MAX 60KG/M2
P1	C15015	PURLIN
PTF1	310UB40.4	PORTAL FRAME RAFTER
RA1	75x6 EA	RAKING ANGLE
S1	114.3x3.6CHS	STRUT
WB	M20 ROD	WALL BRACING
WH1	89x6.0 SHS	WINDOW HEADER
WS1	89x6.0 SHS	WINDOW SILL

STEEL COLUMN SCHEDULE

REFER TO DRG. S1.91 - S1.94 FOR DETAILS

MARK	SIZE	COMMENTS
DJ1	150x100x5.0 RHS	DOOR JAMB
EX. C1	250UB26	EXISTING COLUMN
EX.C2	89x6.0 SHS	EXISTING COLUMN
M1	89x6.0 SHS	MULLION
M2	100x6.0 SHS	MULLION
PTF1	310UB40.4	PORTAL FRAME COLUMN
SC1	89x6.0 SHS	STEEL COLUMN
SC2	125x5.0 SHS	STEEL COLUMN
SC3	150x100x5.0 RHS	STEEL COLUMN
SC5	150x5.0 SHS	STEEL COLUMN

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	31.03.20	COORDINATION ISSUE	MJ	MS
2	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS

TENDER

NOT FOR CONSTRUCTION

CLIENT

designtek

calibre

PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

ROOF FRAMING PLAN

PROJECT No.	DRAWING No.	REVISION
20-000180	S9.01	2

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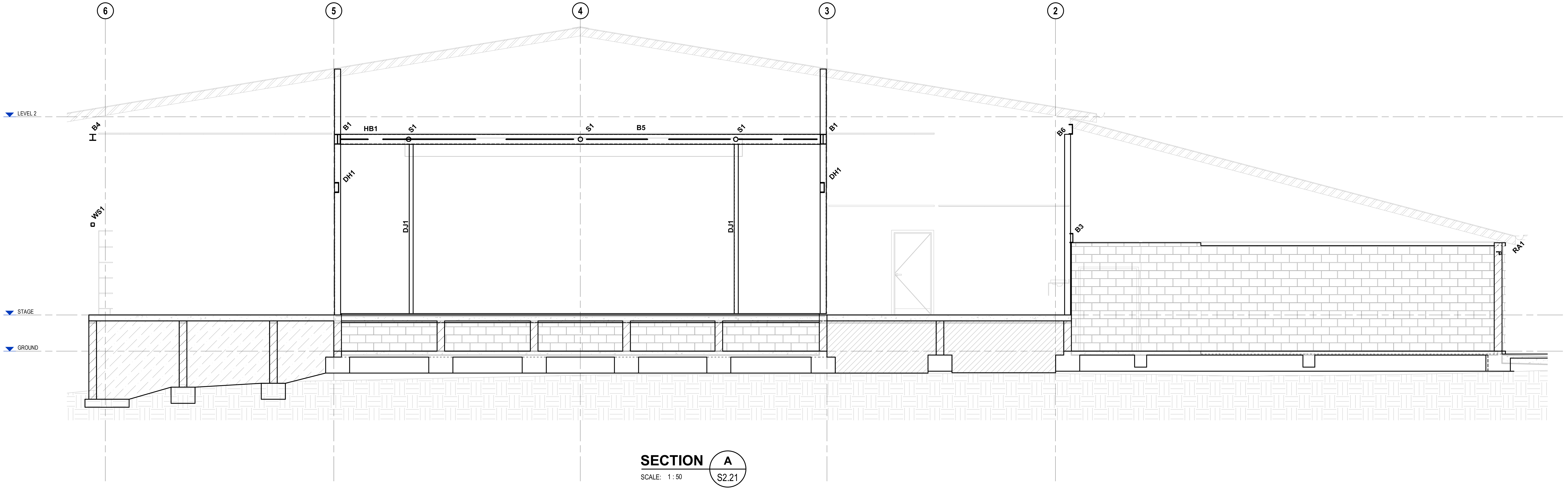
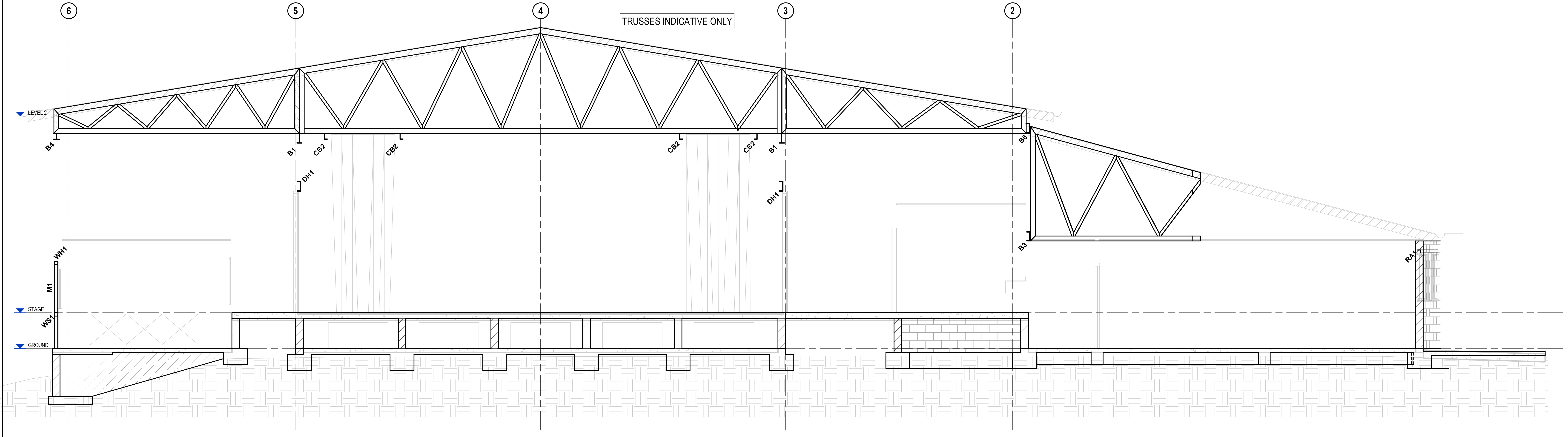
A1



SECTION A
S2.21
SCALE: 1 : 50



SECTION B
S2.21
SCALE: 1 : 50

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
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STATUS
TENDER
NOT FOR CONSTRUCTION

CLIENT
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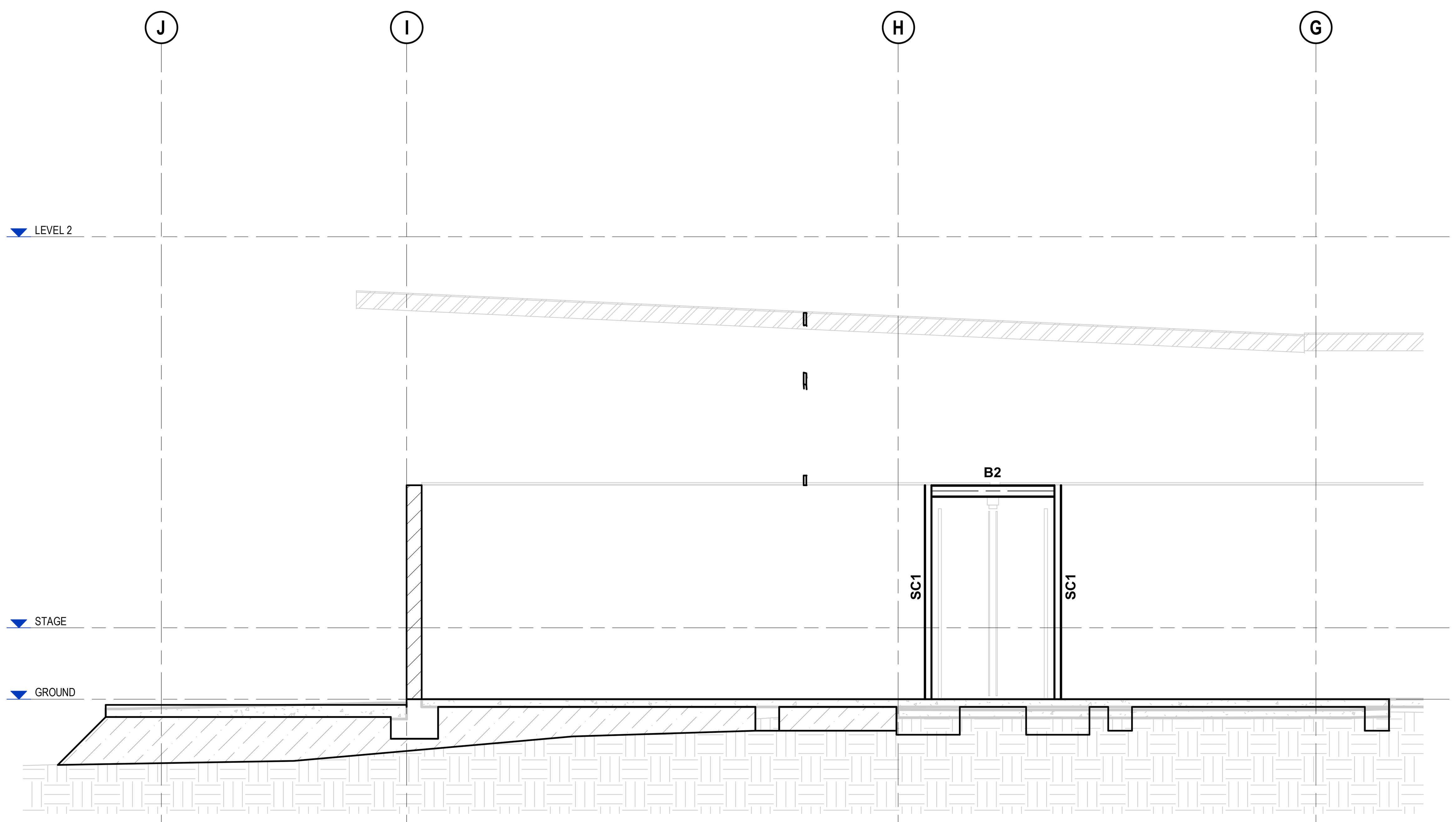
PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI
QUEENSLAND 4560

DRAWING TITLE
ROOF FRAMING ELEVATIONS - SHEET 1

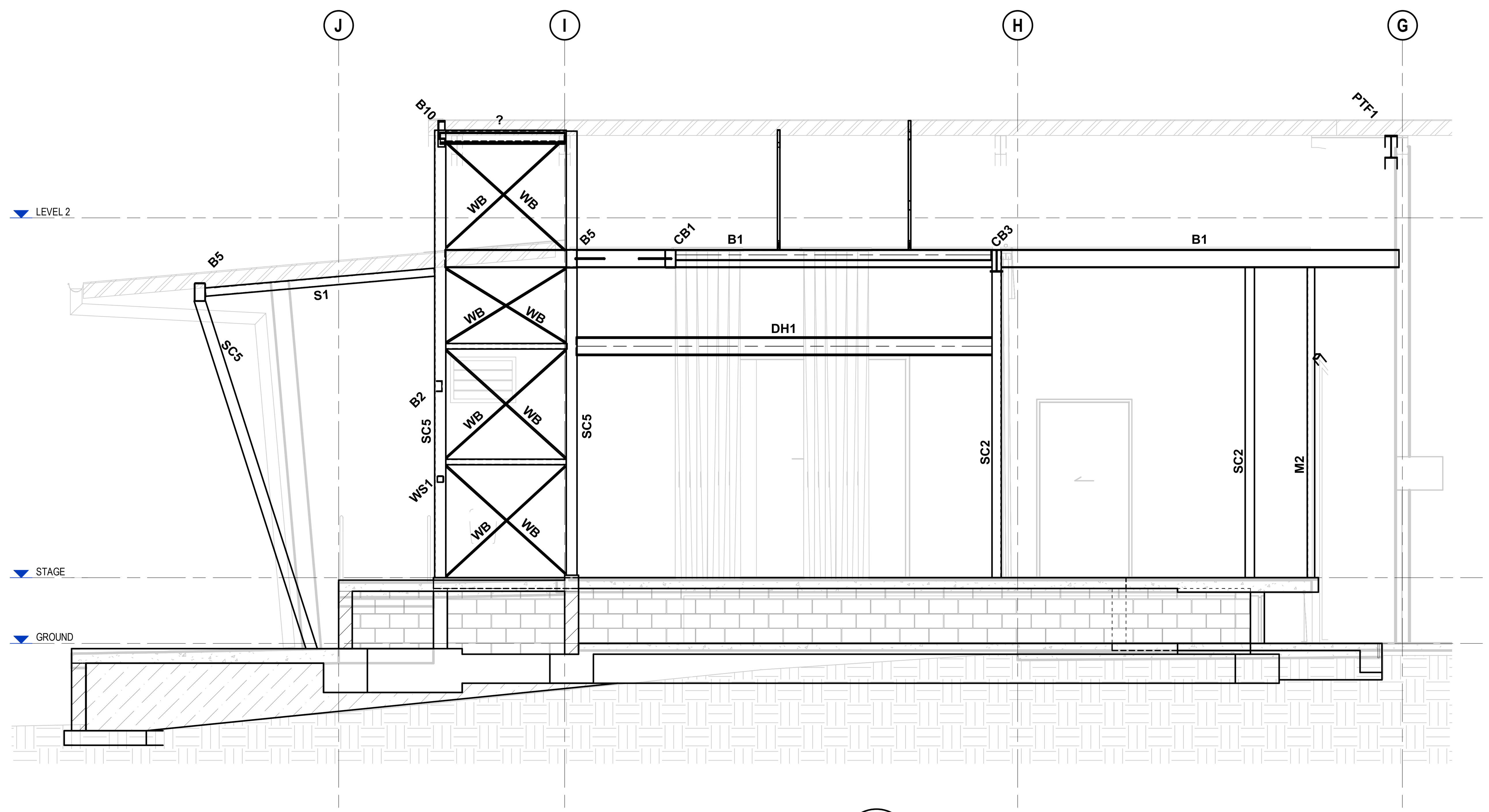
PROJECT No.	DRAWING No.	REVISION
20-000180	S9.11	1

03-Apr-20 12:25:33 PM

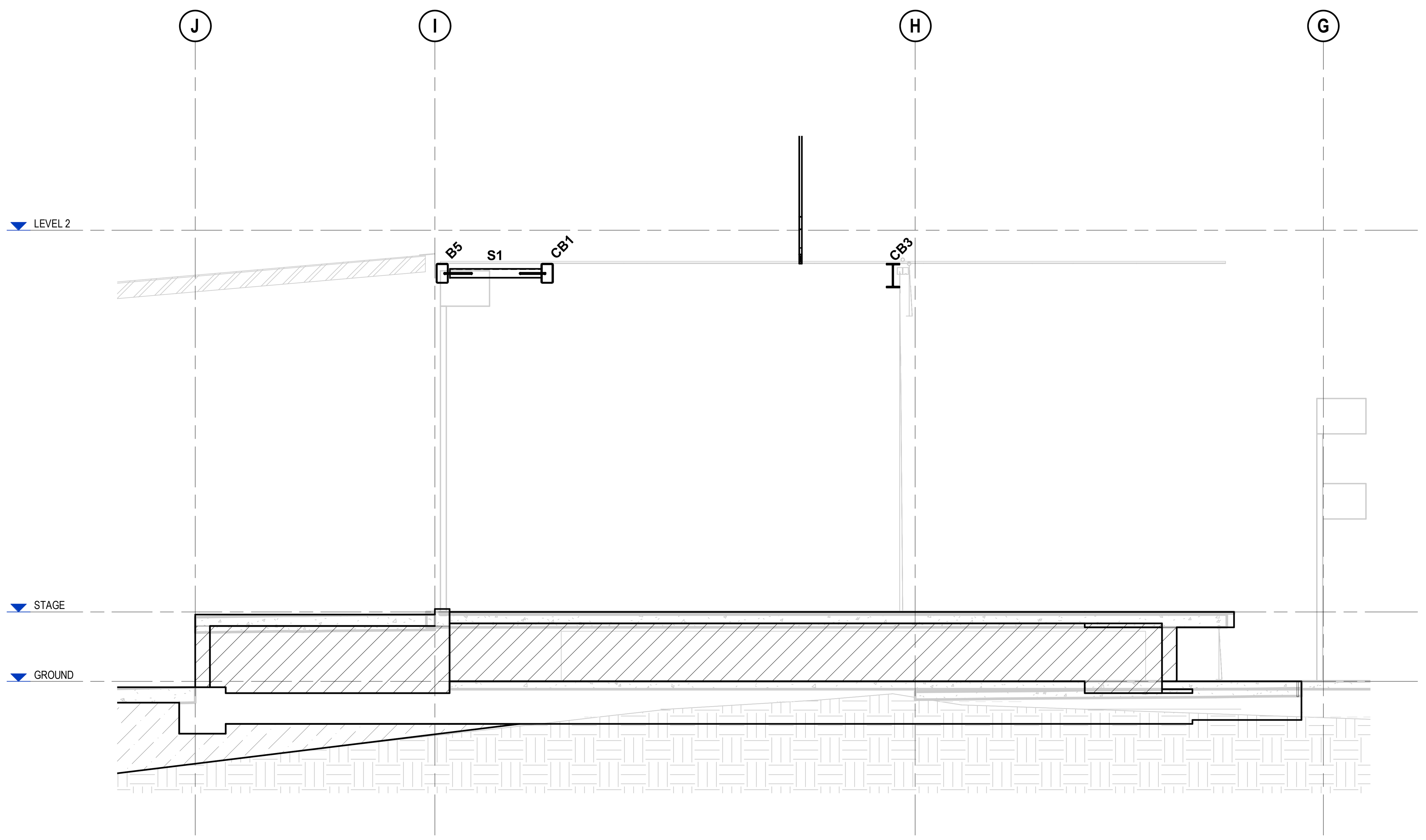
A1



SECTION C
SCALE: 1 : 50
S2.21



SECTION D
SCALE: 1 : 50
S2.21



SECTION E
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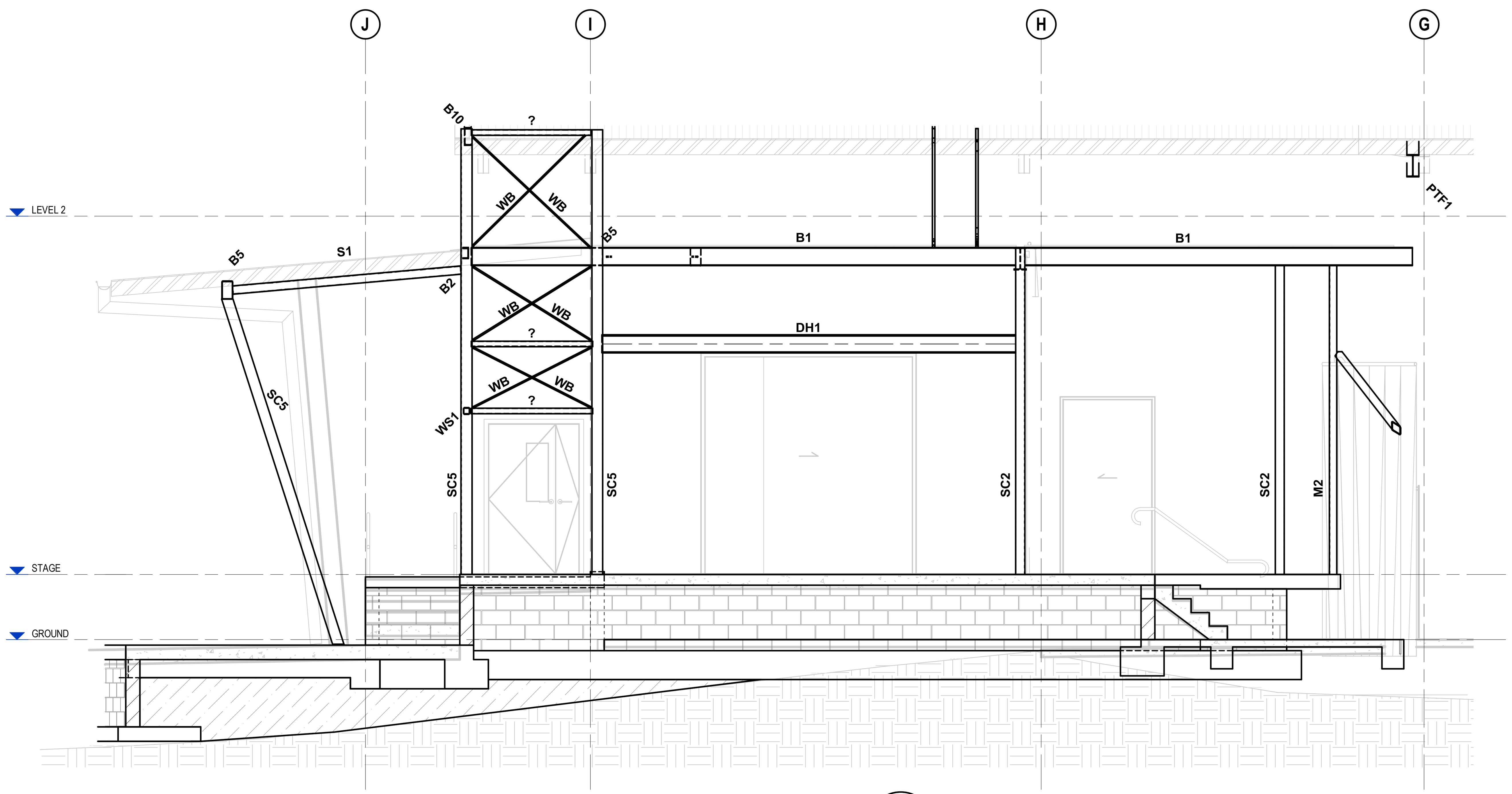
S2.21



SECTION F
SCALE: 1 : 50
S2.21

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS
TENDER
NOT FOR CONSTRUCTION

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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
ROOF FRAMING ELEVATIONS - SHEET 2

PROJECT No.	DRAWING No.	REVISION
20-000180	S9.12	1

03-Apr-20 12:25:39 PM
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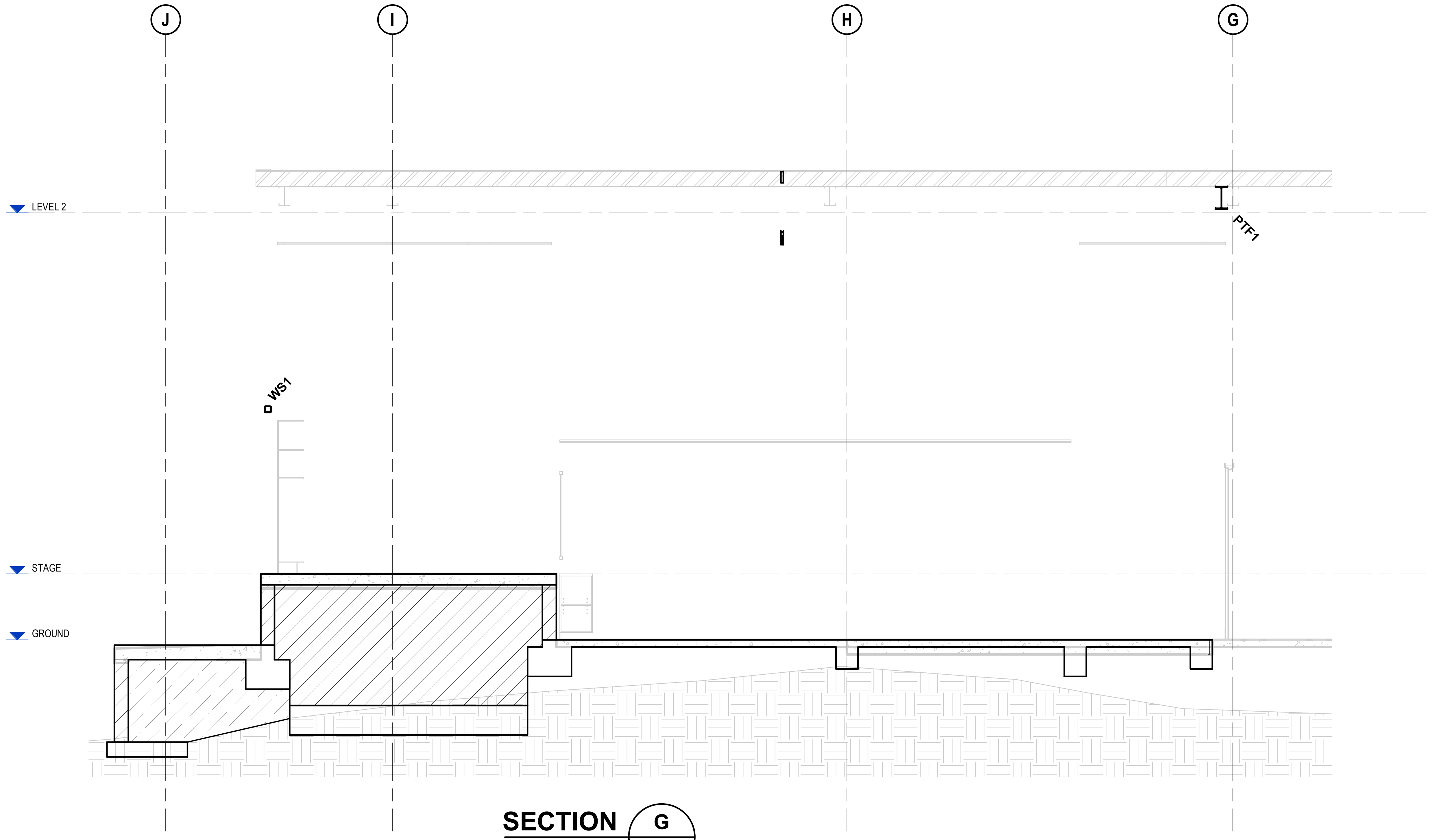
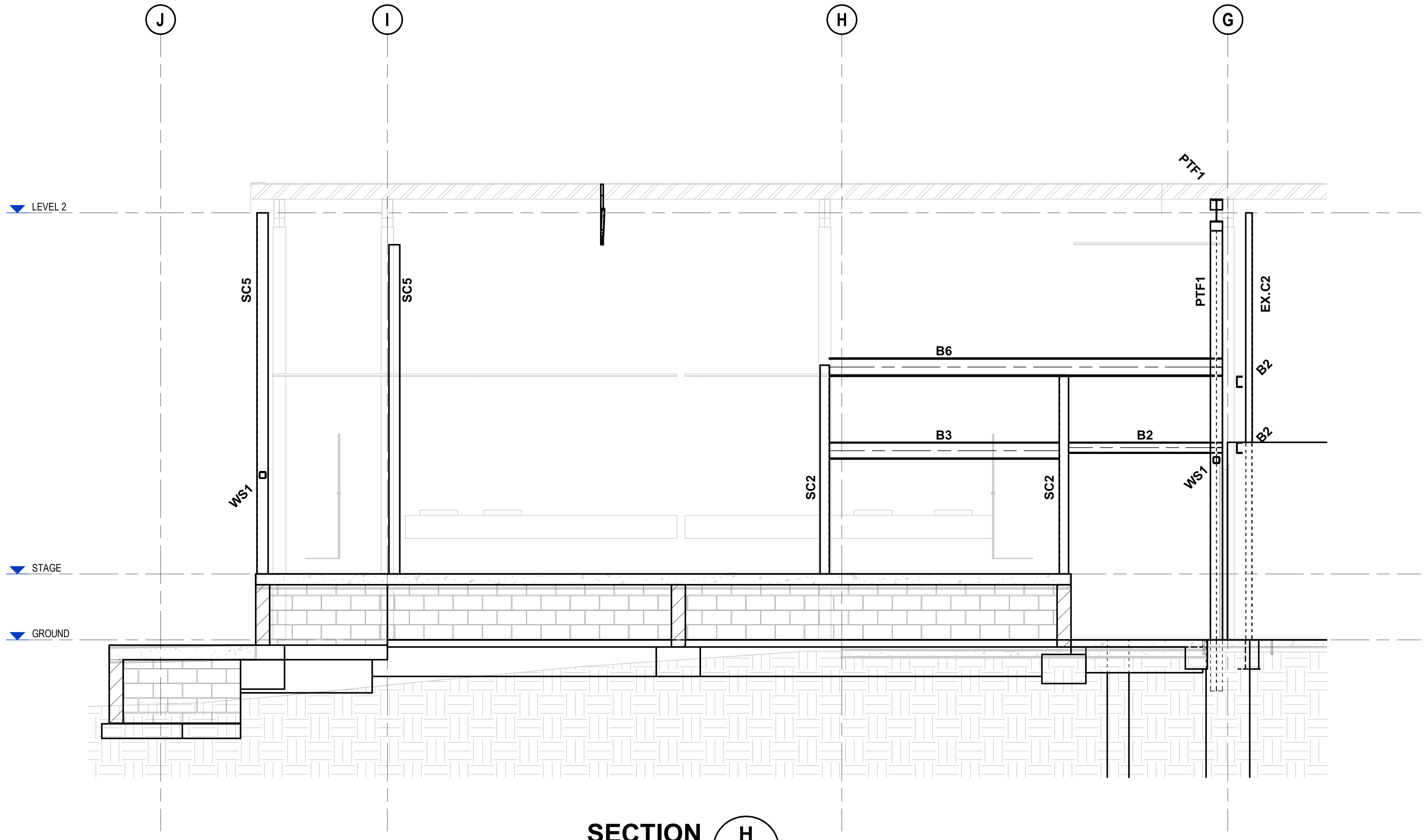
A1



SECTION G / S2.21
SCALE: 1 : 50



SECTION H / S2.21
SCALE: 1 : 50

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES
1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS
TENDER
NOT FOR CONSTRUCTION

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PROJECT
PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL
SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE
ROOF FRAMING ELEVATIONS - SHEET 3

PROJECT No.	DRAWING No.	REVISION
20-000180	S9.13	1

03-Apr-20 12:25:44 PM
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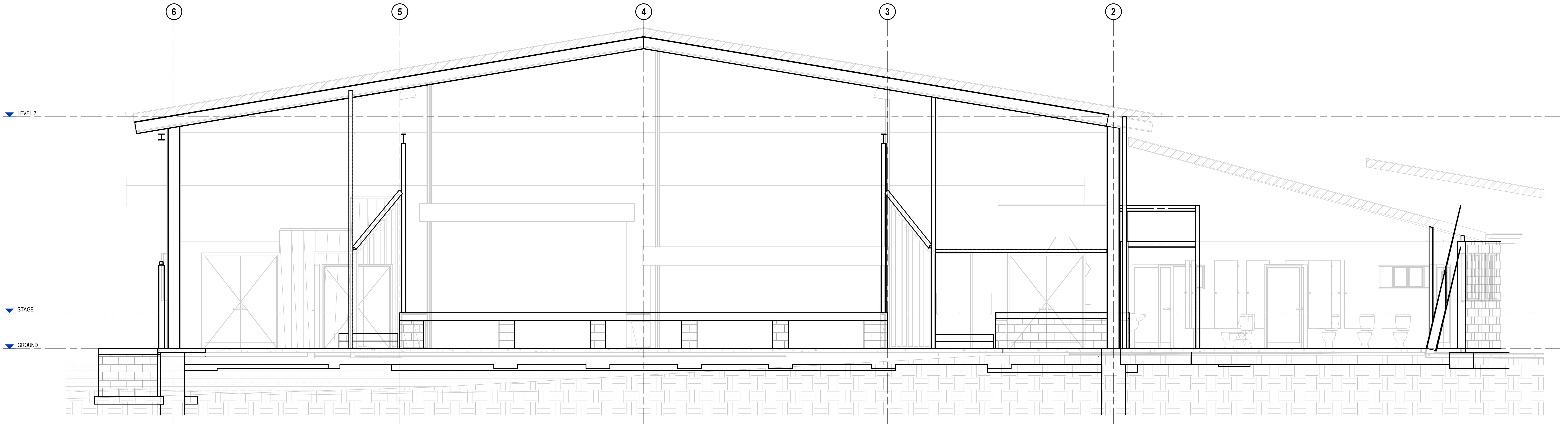
A1



BUILDING ELEVATION - NORTH

SCALE: 1 : 50

BUILDING ELEVATION - SOUTH

SCALE: 1 : 50

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
3. SETOUT, DIMENSIONS AND R.L.'S OF ALL ELEMENTS TO ARCHITECTURAL DETAILS. ENGINEER TO BE NOTIFIED IF STRUCTURAL DRAWINGS VARY FROM CURRENT ARCHITECT'S PRIOR TO THE COMMENCEMENT OF ANY WORKS.

STATUS

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PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

BUILDING ELEVATIONS - SHEET 1

PROJECT No.	DRAWING No.	REVISION
20-000180	S9.21	1

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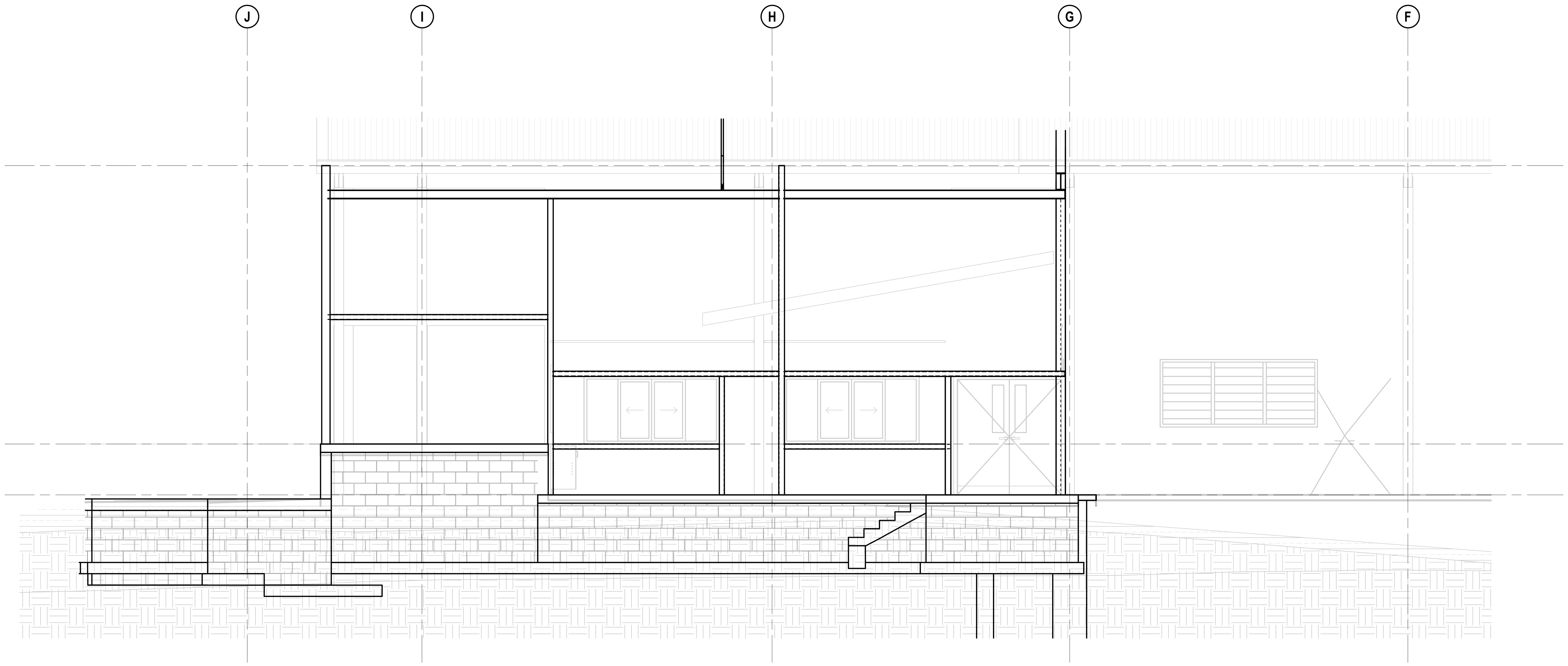
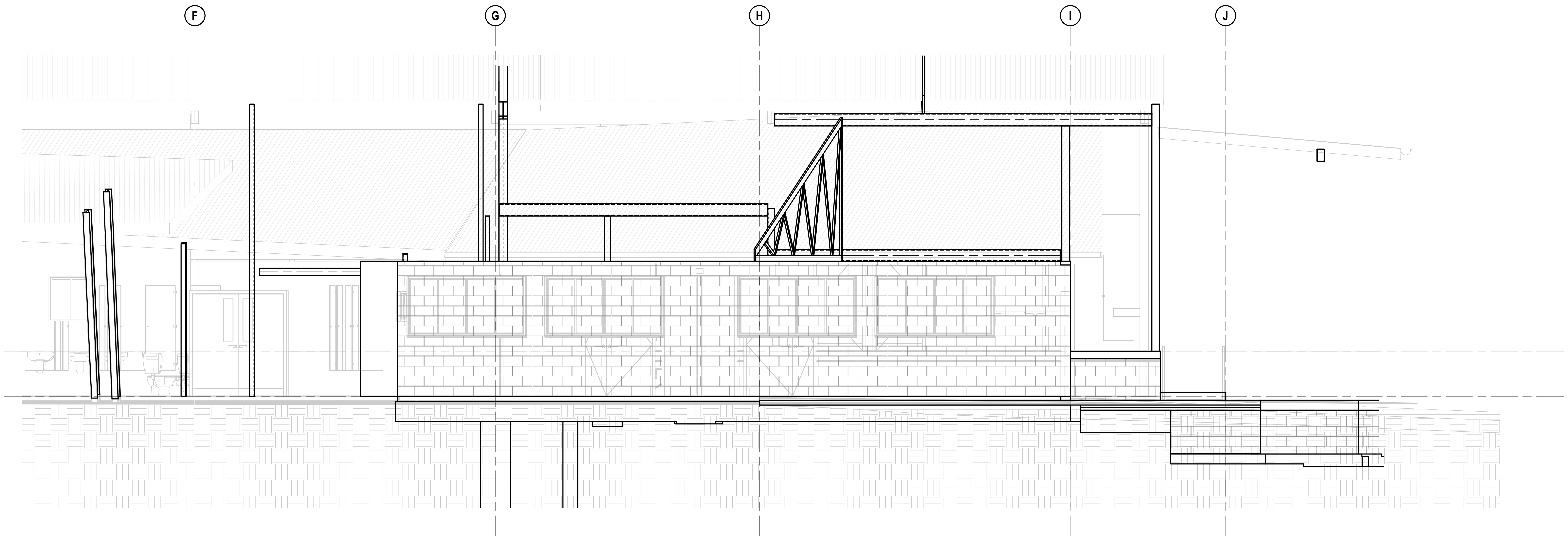
A1



BUILDING ELEVATION - EAST

SCALE: 1 : 50



BUILDING ELEVATION - WEST

SCALE: 1 : 50

REVISION	DATE	ISSUE DESCRIPTION	DESIGN	DRAWN
1	03.04.20	TENDER ISSUE	MJ	MS

NORTHPOINT ARROW

PROJECT NOTES

1. REFER DRAWING/S S1.01 & S1.02 FOR TYPICAL STRUCTURAL NOTES.
2. REFER DRAWING/S S1.21 - S1.94 FOR TYPICAL STRUCTURAL DETAILS.
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STATUS

TENDER

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PROJECT

PROPOSED HALL EXTENTION AT BLI-BLI STATE SCHOOL

SCHOOL ROAD, BLI BLI QUEENSLAND 4560

DRAWING TITLE

BUILDING ELEVATIONS - SHEET 2

PROJECT No.	DRAWING No.	REVISION
20-000180	S9.22	1

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