12785-02C - NEW HIGH SCHOOL IN BUNGENDORE MAJARA ST, BUNGENDORE, NSW 2621 CIVIL & STORMWATER

DRAWING No.	DESCRIPTION
BHS-CE-2001 BHS-CE-2002	DRAWING REGISTER AND LOCALITY PLAN CONSTRUCTION NOTES
BPS-CE-2004 BHS-CE-2005 BHS-CE-2006	OZTAG FIELD - SEDIMENT & EROSION CONTROL PLAN SEDIMENT & EROSION CONTROL PLAN SEDIMENT & EROSION CONTROL DETAILS
BHS-CE-2009 BHS-CE-2010 BHS-CE-2011 BHS-CE-2012	BULK EARTHWORKS GENERAL ARRANGEMENT PLAN BULK EARTHWORKS DETAIL PLAN - SHEET 1 BULK EARTHWORKS DETAIL PLAN - SHEET 2 BULK EARTHWORKS LONGITUDINAL SECTIONS
BHS-CE-2015 BHS-CE-2016	AG PLOT - BULK EARTHWORKS PLAN AG PLOT - BULK EARTHWORKS LONGITUDINAL SECTIONS
BPS-CE-2020 BPS-CE-2021	OZTAG FIELD - BULK EARTHWORKS DETAIL PLAN OZTAG FIELD - BULK EARTHWORKS LONG SECTIONS
BHS-CE-2030 BHS-CE-2031 BHS-CE-2032 BPS-CE-2033 BHS-CE-2034 BHS-CE-2035	GENERAL ARRANGEMENTS PLAN STORMWATER DRAINAGE PLAN - SHEET 1 STORMWATER DRAINAGE PLAN - SHEET 2 EARLY WORKS PS SITEWORKS & SW DRAINAGE PLAN STORMWATER DRAINAGE PLAN - SHEET 3 STORMWATER DRAINAGE PLAN - SHEET 4
BPS-CE-2040	EARLYWORKS PS SITEWORKS PAVEMENT DETAILS
BHS-CE-2051 BHS-CE-2052 BHS-CE-2053	STORMWATER DRAINAGE DETAILS SHEET 1 STORMWATER DRAINAGE DETAILS SHEET 2 STORMWATER DRAINAGE DETAILS SHEET 3
BHS-CE-2059 BHS-CE-2060 BHS-CE-2061 BHS-CE-2062 BHS-CE-2063 BHS-CE-2064 BHS-CE-2065 BHS-CE-2066 BHS-CE-2067 BHS-CE-2068	SITEWORKS AND PAVEMENT GENERAL ARRANGEMENT PLAN SITEWORKS AND PAVEMENT PLAN - SHEET 1 SITEWORKS AND PAVEMENT PLAN - SHEET 2 SITEWORKS AND PAVEMENT PLAN - SHEET 3 SITEWORKS AND PAVEMENT PLAN - SHEET 4 SITEWORKS AND PAVEMENT PLAN - SHEET 5 RETAINING WALL, INSITU CONCRETE WALL & STAIR DETAILS SITEWORKS AND PAVEMENT PLAN - SHEET 6 SITEWORKS AND PAVEMENT PLAN - SHEET 7 RETAINING WALL AND INSITU CONCRETE WALL PLAN
BHS-CE-2071	SITEWORKS DETAILS
BHS-CE-2091 BHS-CE-2092	PAVEMENT DETAILS SHEET 1 PAVEMENT DETAILS SHEET 2
BHS-CE-2140 BHS-CE-2141 BHS-CE-2142	ROAD CIVIL WORKS SETOUT GENERAL ARRANGEMENT PLAN ROAD CIVIL WORKS SETOUT DETAIL PLAN SHEET 1 ROAD CIVIL WORKS SETOUT DETAIL PLAN SHEET 2
BHS-CE-2150 BHS-CE-2155 BHS-CE-2200 BHS-CE-2201	ROAD CIVIL WORKS SETOUT DETAIL PLAN SHEET 3 ROAD CIVIL WORKS LONGITUDINAL SECTIONS WOMBAT CROSSING PLAN AND DETAILS ROUNDABOUT AND MISCELLANEOUS CIVIL ROAD DETAILS



LOCALITY PLAN SCALE N.T.S.

BUILDER

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Landscape Architecture

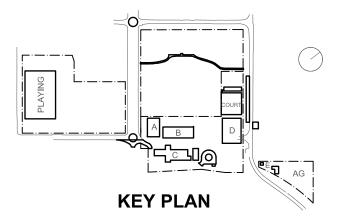
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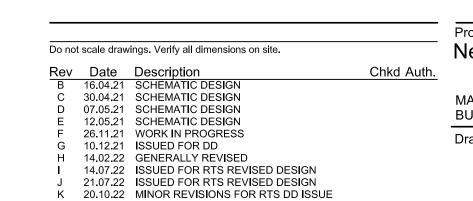
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Acoustic

Acoustic Logic

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Project
New High School in Bungendore

MAJARA STREET,
BUNGENDORE NSW 2621

Drawing Title DRAWING REGISTER AND

LOCALITY PLAN

Designed Reviewed Drawn Sheet

MW SCM MW B1

Job No. Status Date Scale

5555 SSDA OCT '21 NTS

Drawing No.

BHS-CE-2001



North Sydney NSW 2060 (PO Box 1656, NSW 2059)

CIVIL NOTES

GENERAL NOTES

- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
- G2 MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT SAA CODES, BUILDING REGULATIONS AND THE REQUIREMENTS OF ANY OTHER RELEVANT STATUTORY AUTHORITIES.
- G3 THESE DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN METERS. ALL SET OUT DIMENSIONS AND LEVELS, INCLUDING THOSE SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S DRAWINGS AND VERIFIED ON
- G4 ALL SETOUT AND DIMENSIONS OF THE STRUCTURE INCLUDING KERBS AND RETAINING WALLS, AND BULK EARTHWORKS MUST BE TAKEN FROM THE ARCHITECT'S DRAWINGS. SETOUT OF THE STORMWATER PITS BY OTHERS. CONTRACTOR TO CONFIRM SETOUT OF SERVICE TRENCHING INCLUDING SUBSOIL ON SITE.
- G5 THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION VER THE WORKS. REFER TO GEOTECHNICAL REPORT BY 'DOUGLAS PARTNERS', DATED 4 MAY 2021.
- G6 ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.
- G7 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION OF A COST VARIATION. THE SUPERINTENDENT MUST APPROVE ANY COST VARIATION INVOLVED BEFORE ANY WORK STARTS.
- G8 ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM.
- G9 SERVICE INFORMATION SHOWN IS APPROXIMATE ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.
- G10 EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED AND MAY NOT
- G11 UNLESS NOTED OTHERWISE, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PROPOSED PAVEMENT AND BUILDING AREAS.
- G12 MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.

SITEWORKS NOTES

- PRIOR TO THE PLACEMENT OF ANY PAVEMENTS, BUILDINGS OR DRAINS THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST 'E1.1' OF A.S. 1289 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH GRANULAR FILL TO THE ENGINEERS APPROVAL AND COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW. ON HIGHLY REACTIVE CLAY AREAS SITE EXCAVATED MATERIAL MAY BE USED WITH THE PRIOR AUTHORISATION OF THE
- S2 ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT BY 'DOUGLAS PARTNERS', DATED 4 MAY 2021. MOISTURE CONTENT TO BE MAINTAINED AT +/- 2% OMC. MINIMUM COMPACTION REQUIREMENTS ARE DETAILED BELOW FOR (ALL REQUIREMENTS ARE TO VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER):
- LANDSCAPED AREAS FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE TO SUBGRADE LEVEL; FINE CRUSHED ROCK - SELECTED FILL WITHOUT CONSPICUOUS CLAY CONTENT 98% STD.
- BUILDING BASECOURSE 98% MOD FILL UNDER ROAD PAVEMENTS; - TO WITHIN 500mm OF FINISHED SUBGRADE LEVEL
- UP TO FINISHED SUBGRADE LEVEL 98% STD. ROAD PAVEMENT MATERIALS; - SUB BASE 98% MOD. - BASE COURSE 98% MOD.

THE MAXIMUM COMPACTION IS TO BE NO GREAT THAN 4% ON TOP OF THE ABOVE

98% STD.

- MENTION VALUES. S3 GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. FINISHED SURFACE CONTOURS ARE SHOWN FOR CLARITY. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN. THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN AND
- S4 ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTER OF PIPE OR EXTERIOR FACE OF BUILDING UNLESS NOTED OTHERWISE.
- S5 ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER.

MATCH ADJACENT SURFACES OR STRUCTURES.

- S6 ANY FILL REQUIRED SHALL BE APPROVED BY THE ENGINEER / GEOTECHNICAL
- S7 CONTRACTOR IS TO ENSURE THAT ALL EXCAVATIONS ARE MAINTAINED IN A DRY CONDITION WITH NO WATER ALLOWED TO REMAIN IN THE EXCAVATIONS.
- S8 ALL FINISHES AND COLOURS TO BE IN ACCORDANCE WITH LANDSCAPE ARCHITECTURAL SPECIFICATIONS.
- S9 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE, REINFORCEMENT AND RETAINING WALL DETAILS.
- S10 GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST: A) COMPLY WITH THE GENERAL PROVISIONS OF PART 3.1 "MANAGING RISKS TO HEALTH AND SAFETY" OF NSW WORK AND HEALTH AND SAFETY REGULATION
- B) COMPLY PART 6.3 DIVISION 3 "EXCAVATION WORK" OF NSW WORK HEALTH AND SAFETY REGULATION NSW 2011
- S11 PRIOR TO THE EXCAVATION OF ANY TRENCH DEEPER THAN 1.5 METRES THE CONTRACTOR MUST: A) NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ON THE APPROPRIATE FORM.

STORMWATER DRAINAGE NOTES

- SW1 UNLESS NOTED OTHERWISE BY HYDRAULIC ENGINEERS DRAWINGS, ALL DOWNPIPES & GRATED INLETS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 150 DIA. UPVC PIPES LAID AT A MINIMUM GRADE OF 1 IN 100. FOR SYPHONIC ROOF DRAINAGE SYSTEMS ALL DOWNPIPES CONNECTION DRAIN SIZES TO BE CONNECTED INTO MAIN STORMWATER DRAINS SHALL BE IN ACCORDANCE WITH HYDRAULIC ENGINEERS DRAWINGS.
- SW2 ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING MATERIALS AS SPECIFIED ON THE DRAWINGS IN ACCORDANCE WITH THE APPROPRIATE A.S. IF NOT SPECIFIED THEN CLASS 2 RRJ RCP SHALL BE USED FOR DIAMETERS > 225mm. SEWER CLASS SEH UPVC IN ACCORDANCE WITH AS1260 SHALL BE USED FOR Ø225mm OR SMALLER.
- SW3 ALL PIPEWORK TO BE INSTALLED IN ACCORDANCE WITH AS3725 FOR RCP AND AS2032 FOR PVC. ALL BEDDING TO BE TYPE H2 UNLESS NOTED OTHERWISE.
- SW4 FOR ALL PITS > 1.2m DEEP, STEP IRONS SHALL BE INSTALLED.
- SW5 PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY M+G CONSULTING.
- SW6 ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- SW7 WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- SW8 GRATES AND COVERS SHALL CONFORM WITH AS 3996 AND AS 1428.1 FOR ACCESS REQUIREMENTS.
- SW9 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- SW10 AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- SW11 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

KERBING NOTES

- K1 ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32 MPa U.N.O.
- K2 ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 75mm GRANULAR BASECOURSE COMPACTED TO A MINIMUM 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 5.2.1.
- K3 EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.
- K4 WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.
- K5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- K6 IN THE REPLACEMENT OF KERBS:-EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O. - EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE

OSD/INFILTRATON TANK SIGNAGE



CONFINED SPACE DANGER SIGN

A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS/S CONFINED SPACE.

COLOURS: 'DANGER' AND BACKGROUND ELLIPTICAL AREA RECTANGLE CONTAINING ELLIPSE - BLACK OTHER LETTERING AND BORDER - BLACK

MINIMUM DIMENSIONS:- 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) - 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

MATERIAL: COLOUR BONDED ALUMINIUM OR POLYPROPYLENE.

FIXING: USE SCREWS AT EACH CORNER AND/OR SUITABLE EPOXY GLUE/CEMENT.

SEDIMENT AND <u>EROSION CONTROL NOTES</u>

- 1. IT HAS BEEN ASSUMED THAT HOARDINGS/SILT FENCING WILL BE PROVIDED TO THE STAGE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.
- 2. ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK".

SEDIMENT CONTROL CONDITIONS

- 1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN AND ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER TO CONTAIN COARSER SEDIMENT FRACTIONS INCLUDING AGGREGATED FINES) AS NEAR AS POSSIBLE TO THEIR SOURCE.
- 2. SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS & WATERWAYS CANNOT OCCUR.
- 3. STOCKPILES WILL BE PLACED WHERE SHOWN ON DRAWING OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER AND NOT WITHIN 5m OF HAZARD AREAS INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS &
- 4. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
- 5. TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- 6. CONTRACTOR TO DESIGN/SIZE/CONSTRUCT TEMPORARY SEDIMENT BASIN, WATER SHOULD BE ALLOWED TO SETTLE BEFORE DISCHARGE. CONTRACTOR MUST VERIFY THAT WATER QUALITY MEETS AUTHORITIES REQUIREMENTS PRIOR TO DISCHARGE. ACCUMULATED SEDIMENT SHOULD THEN BE REMOVED & DISPOSED OF IN ACCORDANCE WITH ENVIRONMENTAL MANAGEMENT PROCEDURES.

SITE INSPECTION & MAINTENANCE CONDITIONS THE SITE MANAGER WILL INSPECT THE SITE AT LEAST WEEKLY AND WILL:

- 1. ENSURE THAT DRAINS OPERATE PROPERLY & TO EFFECT ANY NECESSARY REPAIRS
- 2. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5m FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS & PAVED AREAS.
- 3. REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE
- 4. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE.
- 5. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS.
- 6. MAINTAIN EROSION & SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS
- REHABILITATED. 7. REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL.

- 1. THE VOLUME & INTENSITY OF ANY RAINFALL EVENTS
- 2. THE CONDITION OF ANY SOIL & WATER MANAGEMENT WORKS
- 3. THE CONDITION OF VEGETATION & ANY NEED TO IRRIGATE
- 4. THE NEED FOR DUST PREVENTION STRATEGIES

ENTRIES WILL INCLUDE:

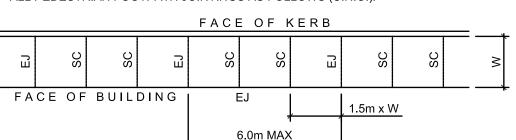
5. ANY REMEDIAL WORKS TO BE UNDERTAKEN

THE BOOK WILL BE KEPT ONSITE & MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF WORKS.

JOINTING NOTES

PEDESTRIAN FOOTPATH JOINTS

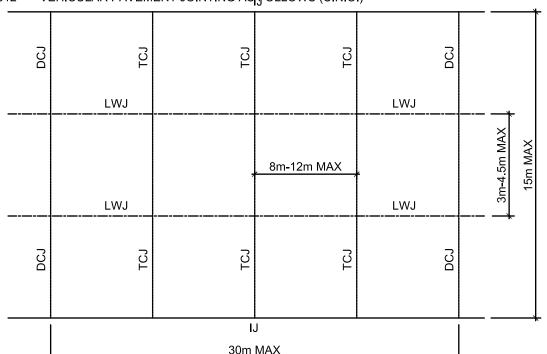
- EXPANSION JOINTS (EJ) ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT 6m CENTRES.
- SAWCUT JOINTS (SC) ARE TO BE LOCATED AT A MAX 1.5m x WIDTH OF PAVEMENT. THE TIMING OF THE SAWCUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
- PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS (EJ) BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVERS
- J5 ALL PEDESTRIAN FOOTPATH JOINTINGS AS FOLLOWS (U.N.O.).



VEHICULAR PAVEMENT JOINTS

- J6 ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
- J7 LONGITUDINAL WARPING JOINTS (LWJ) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 3m TO 4.5m MAX CENTERS. ALL LWJ's SHOULD BE TIED UP TO A MAXIMUM TOTAL WIDTH OF 30m.
- TRANSVERSE CONTRACTION JOINTS (TCJ) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 8m TO 12m MAX CENTERS. TCJ's CAN BE SPACED AT SUITABLE INTERVALS UP TO A RECOMMENDED MAXIMUM LENGTH OF 15m.
- TRANSVERSE DOWELLED CONSTRUCTION JOINTS (DCJ) TO BE PROVIDED FOR PLANNED INTERRUPTIONS SUCH AS AT THE END OF EACH DAY'S OPERATIONS (POUR BREAK), AT BLOCK OUTS FOR BRIDGES AND INTERSECTIONS OR FOR UNEXPECTED DELAYS WHEN THE SUSPENSION OF OPERATIONS IS LIKELY TO CREATE A JOINT.
- J10 ISOLATION JOINTS WITH SUB-GRADE BEAM (IJ) TO BE PROVIDED AT INTERSECTIONS OR AT THE JUNCTION OF A POUR BREAK.
- J11 ALL VEHICULAR PAVEMENTS TO BE JOINTED IN ACCORDANCE WITH AUSTROADS AGPT02-12 GUIDE TO PAVEMENT TECHNOLOGY PART 2 STRUCTURAL PAVEMENT DESIGN AND SUPPLEMENT AP-T36-06 PAVEMENT DESIGN FOR LIGHT TRAFFIC

J12 VEHICULAR PAVEMENT JOINTING AS_LFOLLOWS (U.N.O.)



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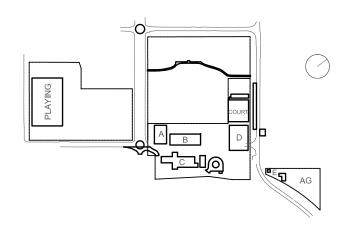


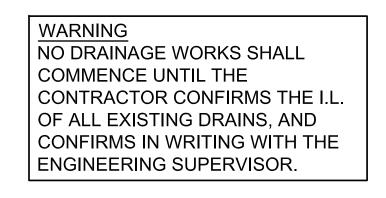


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Do not scale drawings. Verify all dimensions on site.

16.04.21 SCHEMATIC DESIGN

30.04.21 SCHEMATIC DESIGN

07.05.21 SCHEMATIC DESIGN

10.05.21 SCHEMATIC DESIGN

12.05.21 SCHEMATIC DESIGN

14.02.22 GENERALLY REVISED

G 26.11.21 WORK IN PROGRESS

10.12.21 ISSUED FOR DD

A 24.03.21 DRAFT SCHEMATIC DESIGN ISSUE

J 14.07.22 ISSUED FOR RTS REVISED DESIGN

Rev Date Description

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON

New High School in Bungendore

CIVIL NOTES

MAJARA STREET,

Drawing Title

BUNGENDORE NSW 2621

THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

NOTES

SITE SURVEY SUPPLIED BY 'PROJECT SURVEYORS JOB REF: BO4901, DRAWING No. BO4901-BUN-REV K-1 DATED 06.06.22.

Designed

Job No.

Drawing No.

BHS-CE-2002

Reviewed Drawn Sheet

Status Date

MW B1

SSDA OCT '21 AS NOTED AT I

WARNING BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

NOT FOR CONSTRUCTION

M+G Consulting

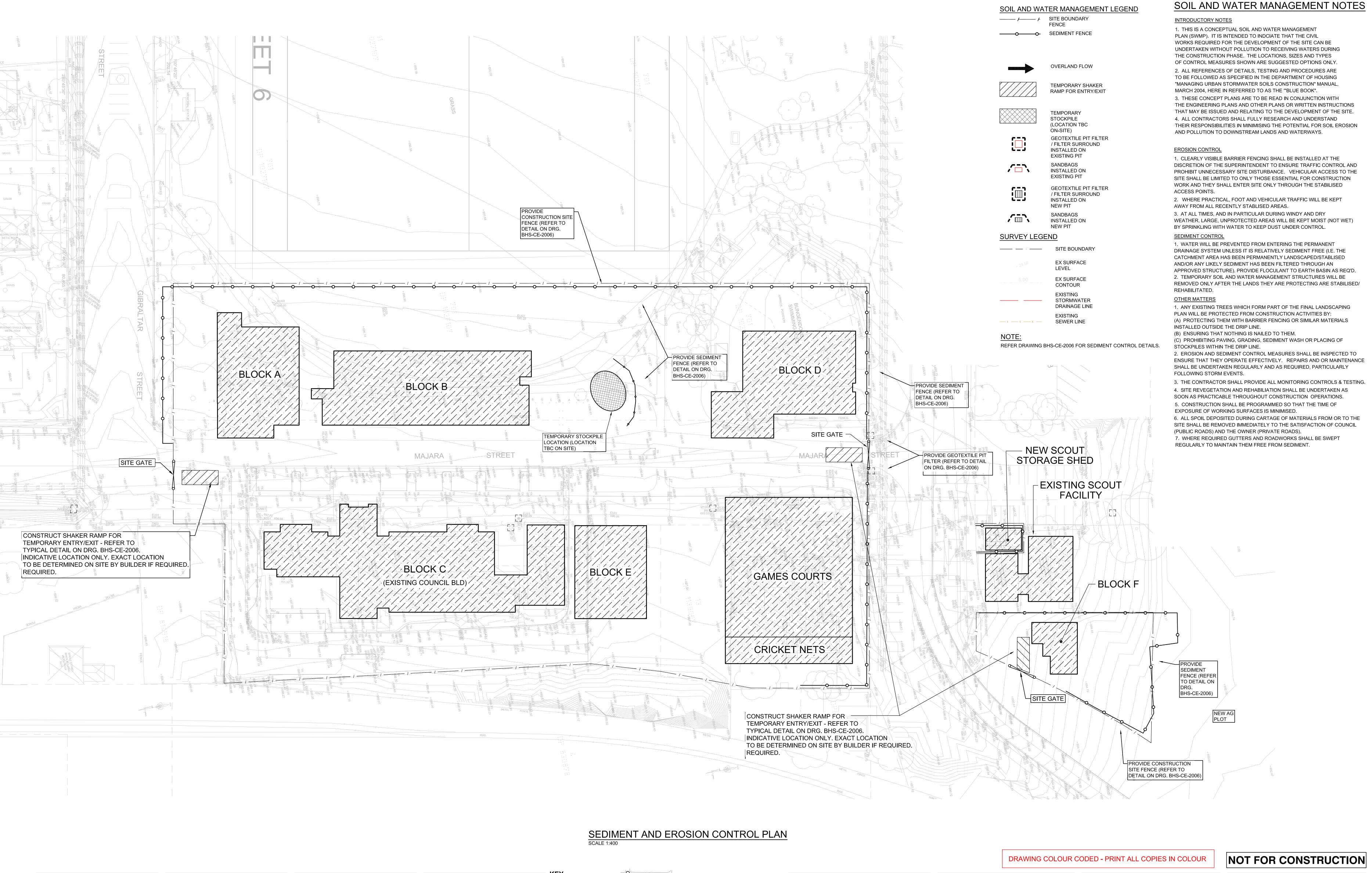












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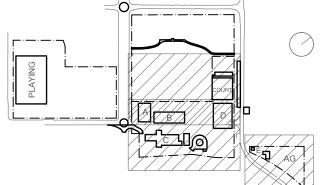
Project Managers TSA Management T+ 61 2 9276 1400 Architect **TKD Architects** T+ 61 2 9281 4399

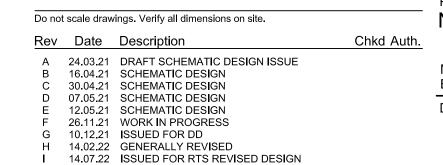
Mechanical, Electrical, Hydraulic, ESD

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T+ 61 2 9928 6800

Landscape Architecture Context T+ 61 2 8244 8900 Acoustic **Acoustic Logic** T+ 61 2 8339 8000



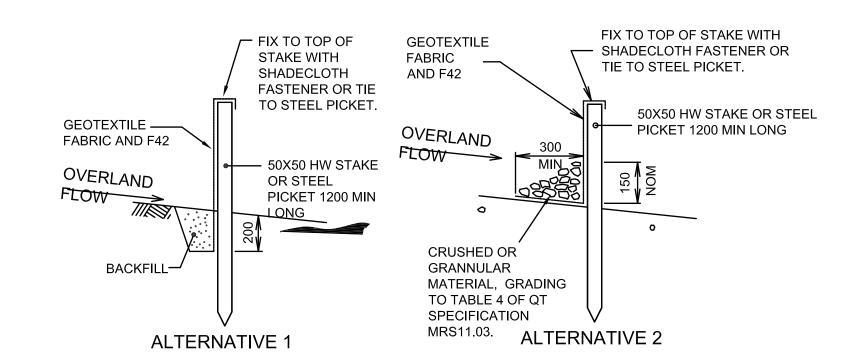


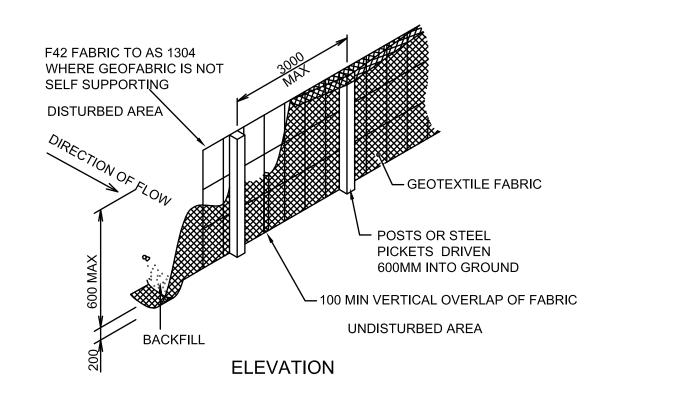
New High School in Bungendore MAJARA STREET, **BUNGENDORE NSW 2621** Drawing Title SEDIMENT & EROSION CONTROL PLAN

Reviewed Drawn Sheet Designed Job No. Status Date Scale SSDA OCT '21 1:400 5555 Drawing No. BHS-CE-2005

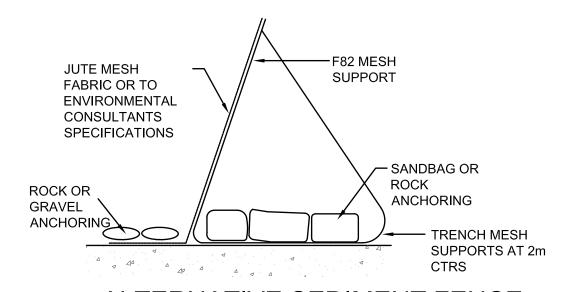
North Sydney NSW 2060 (PO Box 1656, NSW 2059)







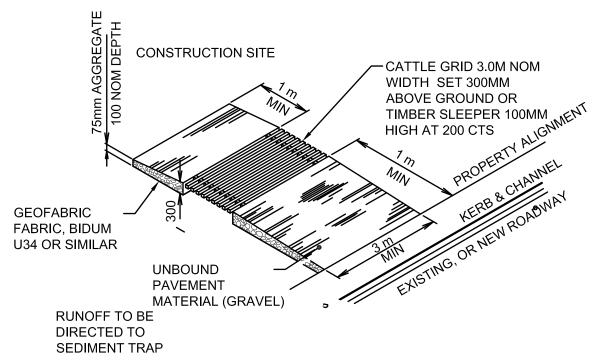
SEDIMENT FENCE NOT TO SCALE



ALTERNATIVE SEDIMENT FENCE NOT TO SCALE

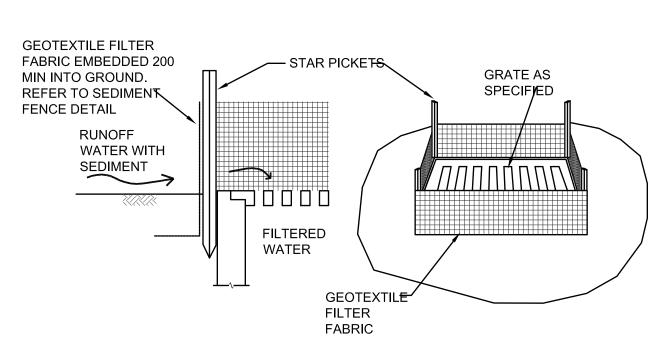
ALTERNATIVE SEDIMENT FENCE NOTES

- 1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
- 2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE JUTE MESH TO THE WELDED MESH FACING USING
- UV-RESISTANT CABLE TIES. 3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE JUTE MESH. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.



TEMPORARY CONSTRUCTION VEHICLE **ENTRY/EXIT SEDIMENT TRAP**

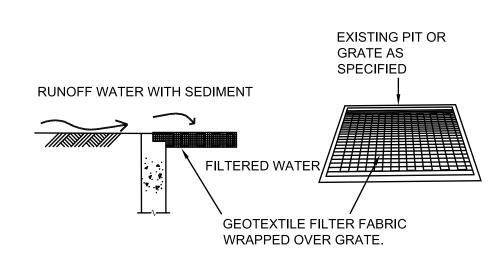
NOT TO SCALE



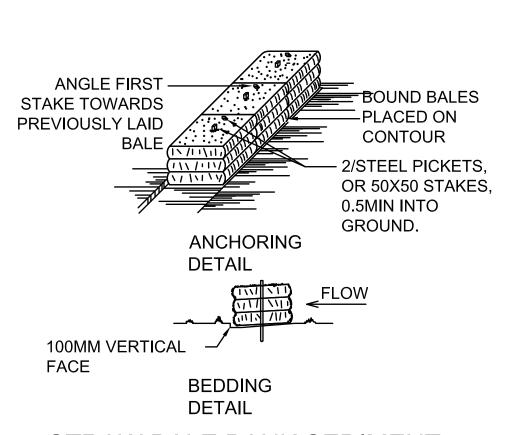
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NOT TO SCALE

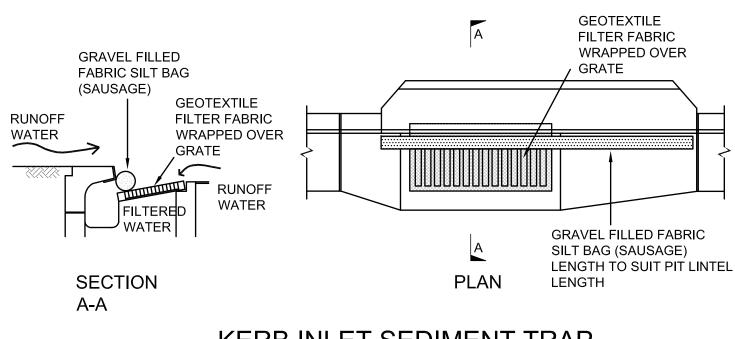
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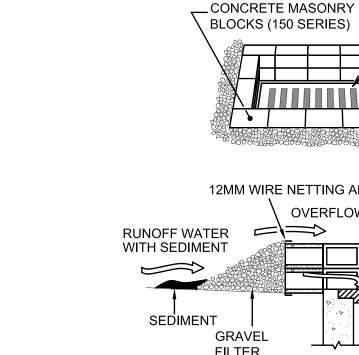
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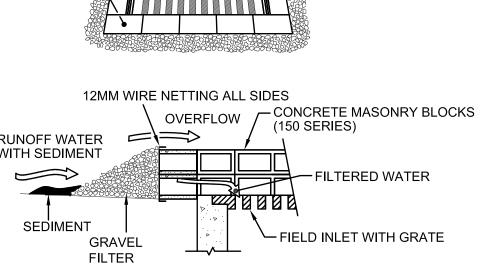


STRAW BALE BANK SEDIMENT CONTROL NOT TO SCALE



KERB INLET SEDIMENT TRAP NOT TO SCALE



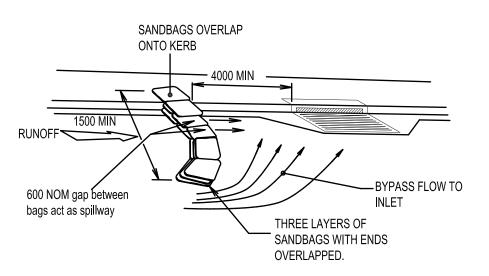


/—INLET WITH

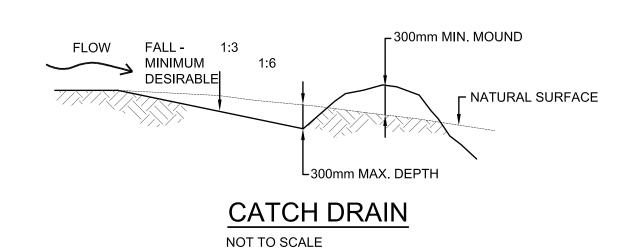
FIELD INLET SEDIMENT TRAP NOT TO SCALE

ENSURE SANDBAGS SURROUND ENTIRE KERB INLET

SANDBAG KERB INLET SEDIMENT TRAP NOT TO SCALE



ON GRADE KERB INLET SEDIMENT TRAP NOT TO SCALE



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30.04.21 SCHEMATIC DESIGN

07.05.21 SCHEMATIC DESIGN

12.05.21 SCHEMATIC DESIGN

26.11.21 WORK IN PROGRESS

G 10.12.21 ISSUED FOR DD

RevDateDescriptionA24.03.21DRAFT SCHEMATIC DESIGN ISSUEB16.04.21SCHEMATIC DESIGN

H 14.07.22 ISSUED FOR RTS REVISED DESIGN

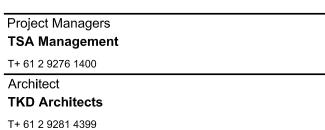


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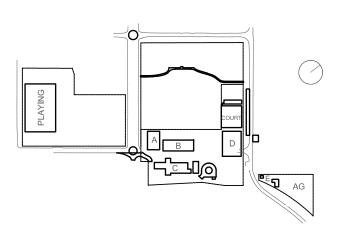




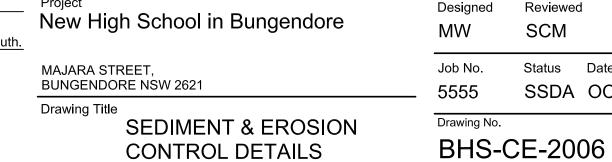
Norman Disney & Young

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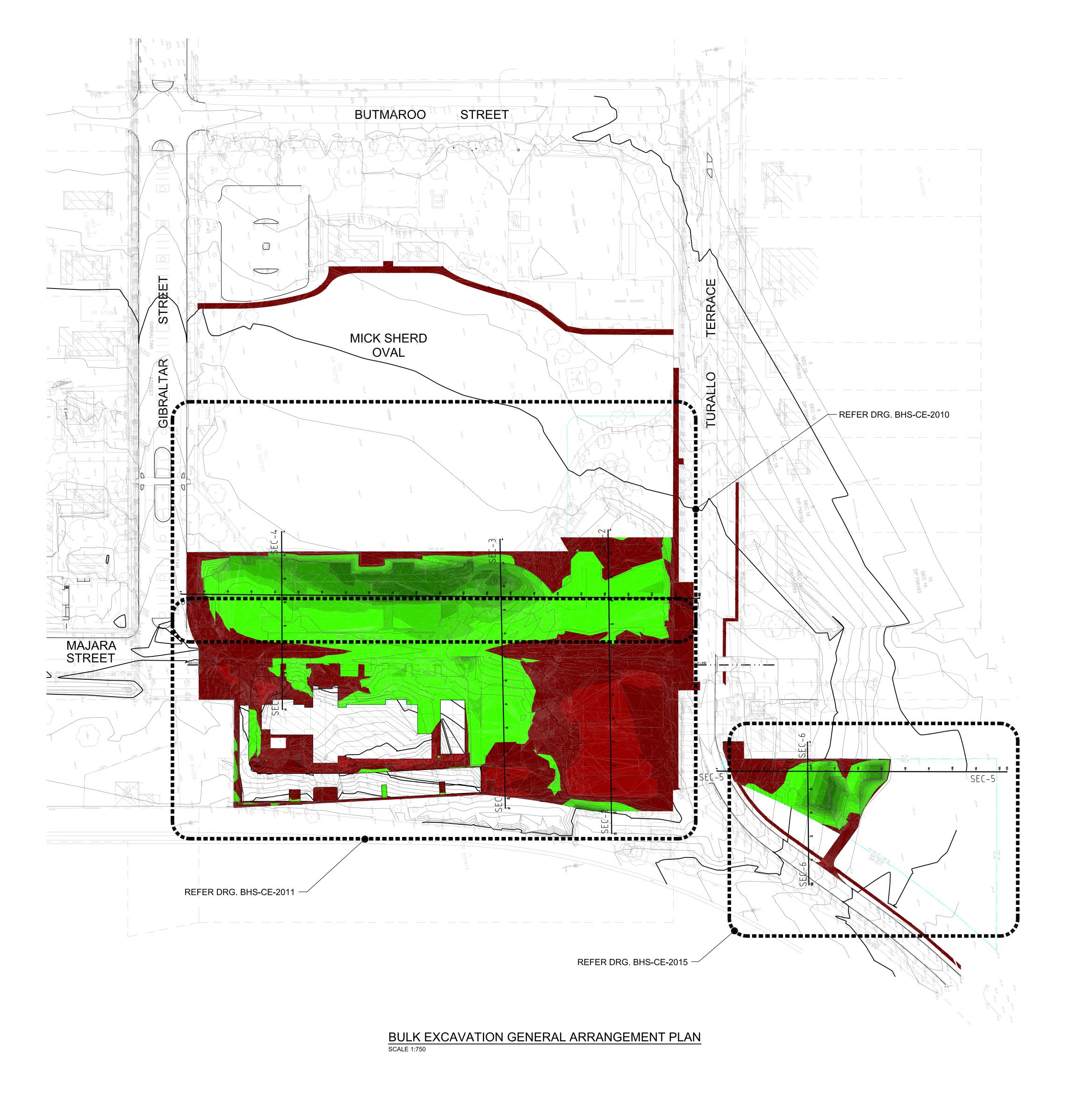


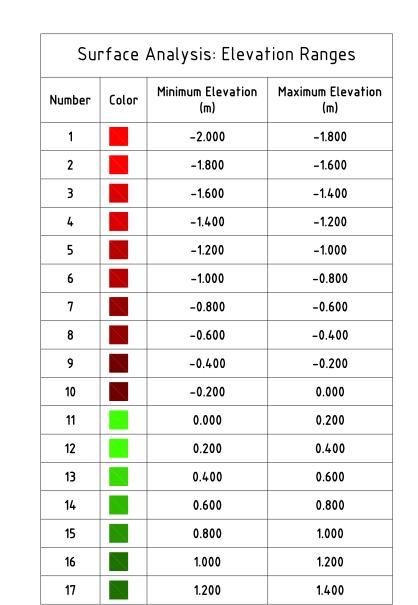


NOT FOR CONSTRUCTION









Cut/Fill Summary

Name Cut Factor Fill Factor 2D Area

21434.033sq.m 2701.197 Cu. M. 3993.522 Cu. M. 1292.325 Cu. M.<Fill> Totals 21434.033sq.m 2701.197 Cu. M. 3993.522 Cu. M. 1292.325 Cu. M.<Fill>

EXCAVATION NOTES

DETAILED EXCAVATION.

- VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING AND SHRINKAGE FACTORS.
- GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.
- THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS). IN ADDITION TO MAKING NO ALLOWANCE FOR TRENCH BACKFILL, TREE ROOTBALLS OR
- PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTION.
- THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE CONFIRMED ON-SITE) AND RE-USED USING VALIDATED MATERIALS AS LANDSCAPING SOIL BUILD-UP/BACKFILL IN ACCORDANCE WITH LANDSCAPE ARCHITECT'S AND SOIL AND WATER
- MANAGEMENT PLAN (SWMP). REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- 500mm ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK.
- SITE SURVEY SUPPLIED BY 'PROJECT SURVEYORS' PTY LTD JOB REFERENCE No. B04901 DRAWING No. B04901-BUN-REV K-1 REVISION K DATED 06.06.2022. EARTHWORKS TO PROVIDE A BUILDING PLATFORM BENCH WITH A MINIMUM
- ALLOWABLE BEARING PRESSURE OF 100 kPa. GEOTECHNICAL ENGINEER TO CONFIRM.
- E10 ALL EARTHWORKS TO COMPLY WITH AS 3798-2007 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
- E11 A MINIMUM OF LEVEL 2 INSPECTION AND TESTING OF EARTHWORKS TO AS 3798-2007

NOTE: **EXCESS FILL TO BE REUSED ON SITE**

NOTE:

THESE BULK EXCAVATION DRAWINGS AND THE MODEL ARE BASED ON THE SURVEY, ARCHITECTURAL AND LANDSCAPE MODELS.

AS THIS BULK EXCAVATION MODEL IS BASED ON INFORMATION FROM OTHERS, WE ARE NOT RESPONSIBLE FOR ITS ACCURACY AND USE OF IT IS AT THE USER'S RISK.

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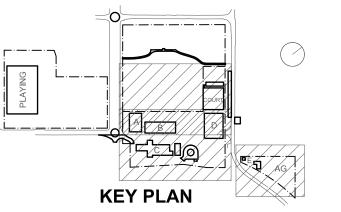
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Project Managers TSA Management T+ 61 2 9276 1400 Architect TKD Architects T+ 61 2 9281 4399

T+ 61 2 9928 6800

Landscape Architecture Context T+ 61 2 8244 8900 Acoustic **Acoustic Logic** T+ 61 2 8339 8000 Mechanical, Electrical, Hydraulic, ESD Norman Disney & Young



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30.09.22 RTS REVISED DD ISSUE

E 23.11.22 ISSUED FOR RTS

New High School in Bungendore BUNGENDORE NSW 2621 Drawing Title BULK EARTHWORKS GENERAL ARRANGEMENT

PLAN

Reviewed Drawn Sheet Designed Status Date

BHS-CE-2009

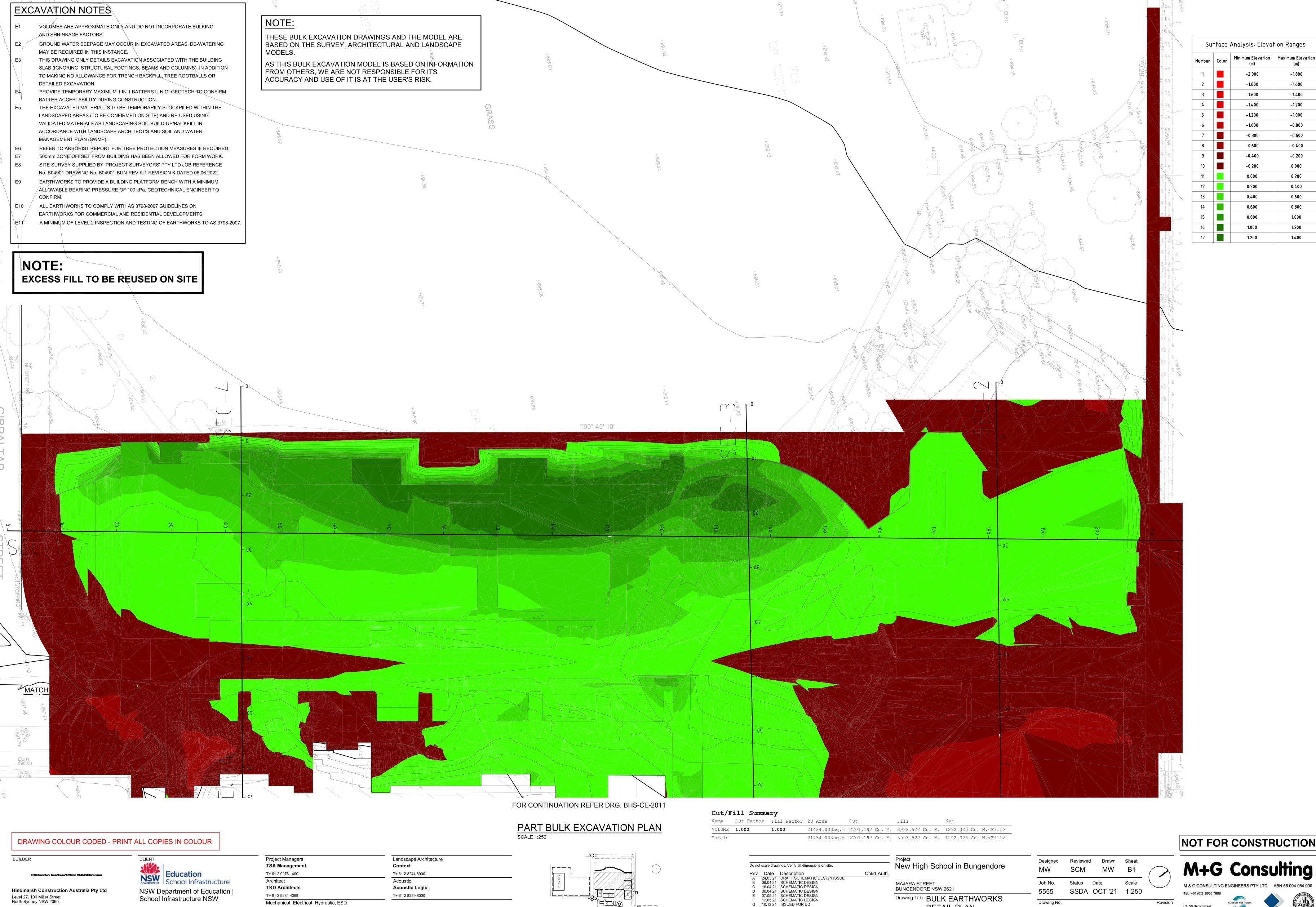
Job No. Scale 5555 SSDA OCT '21 1:750 Drawing No.



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-1.000 -0.200

0.200

0.400

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DETAIL PLAN

SHEET 1

BHS-CE-2010

H 14.02.22 GENERALLY REVISED

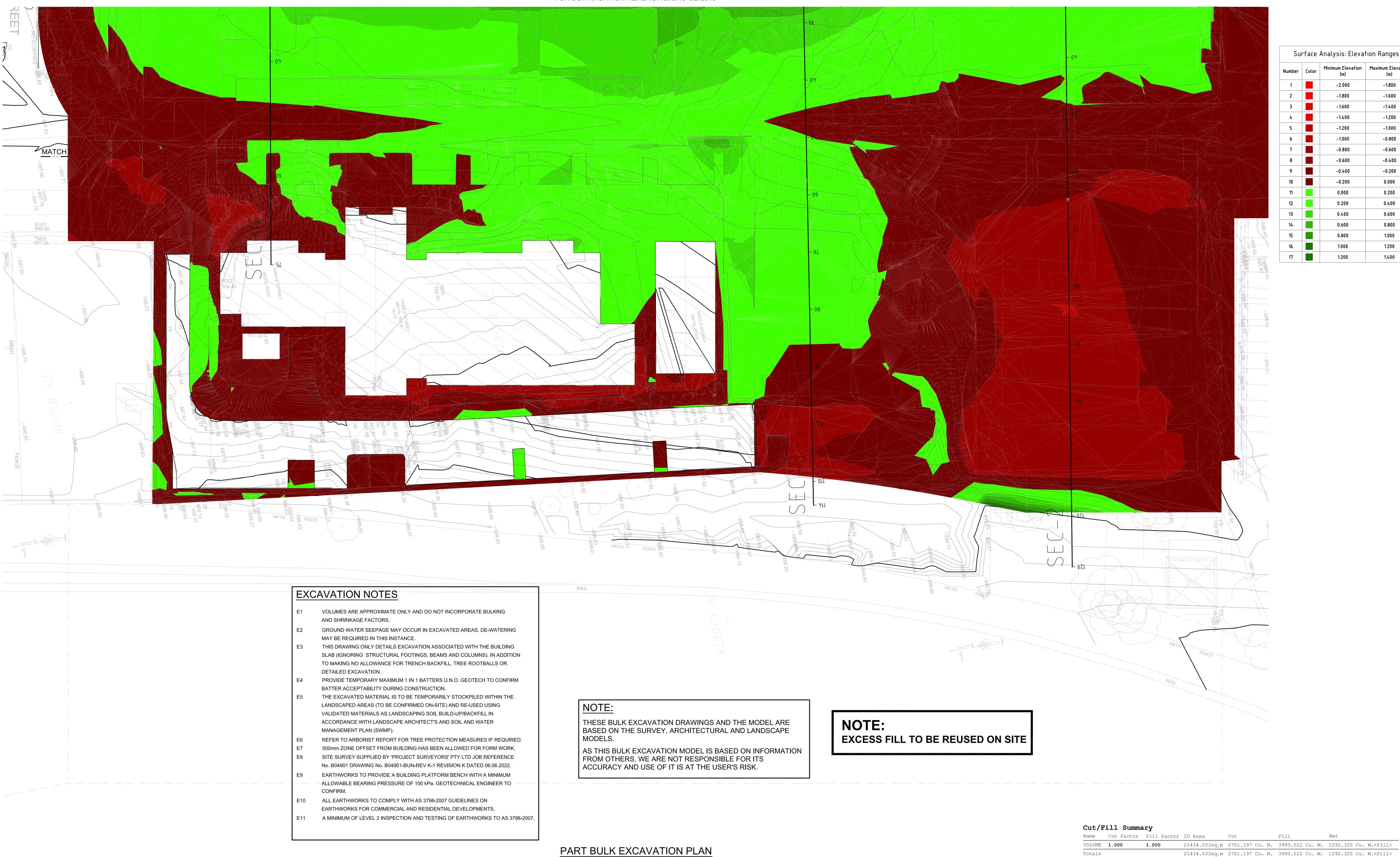
J 30.09.22 RTS REVISED DD ISSUE

I 14.07.22 ISSUED FOR RTS REVISED DESIGN









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Mechanical, Electrical, Hydraulic, ESD

Norman Disney & Young

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Landscape Architecture

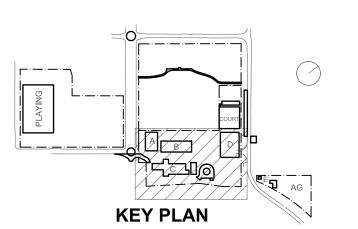
Context

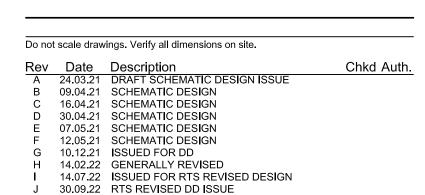
Acoustic

T+ 61 2 8244 8900

Acoustic Logic

T+ 61 2 8339 8000





New High School in Bungendore MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title BULK EARTHWORKS DETAIL PLAN

SHEET 2

Reviewed Drawn Sheet Designed Scale Job No. Status Date 5555 SSDA OCT '21 1:250 Drawing No.

BHS-CE-2011

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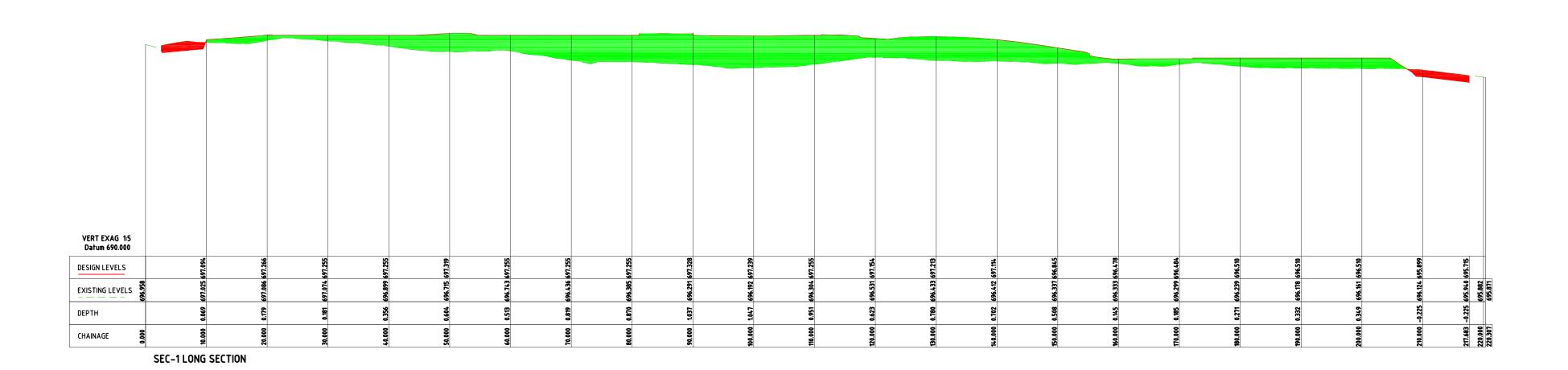


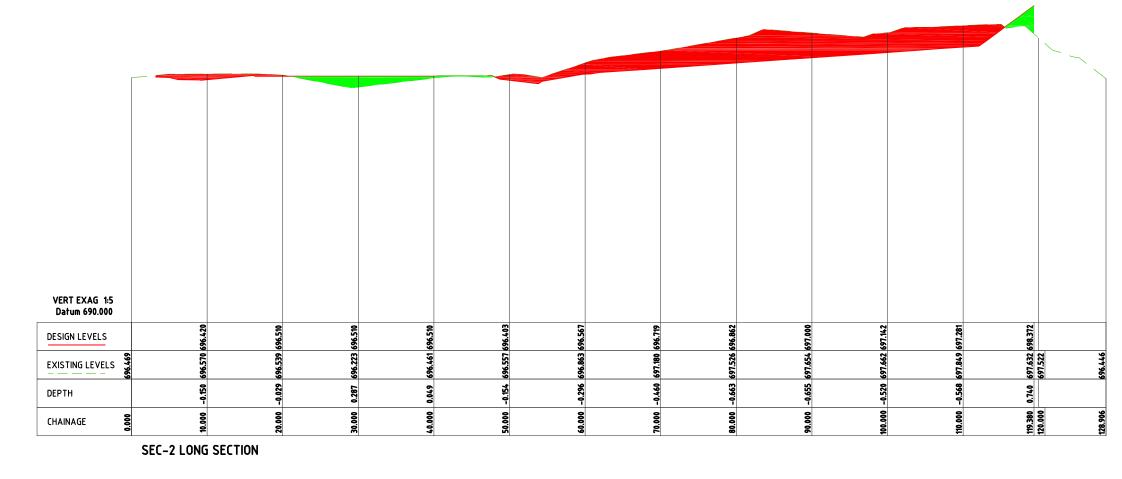
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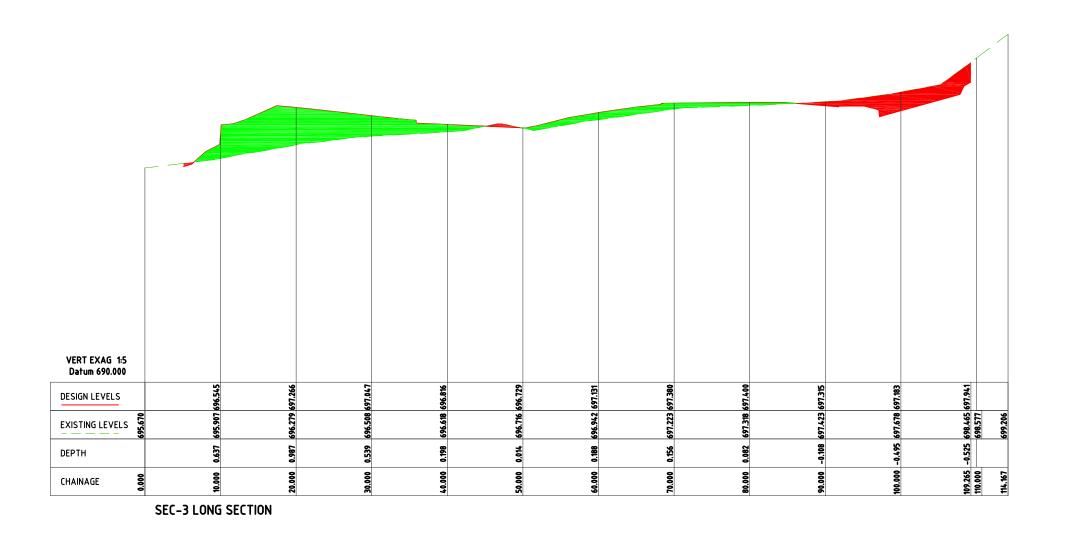
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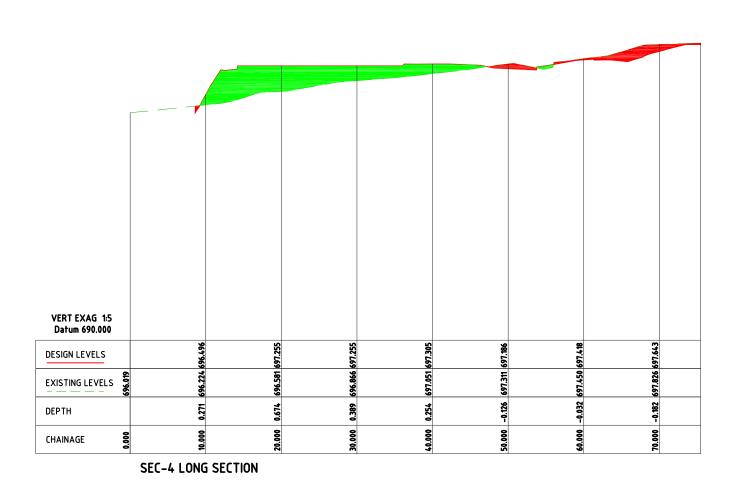
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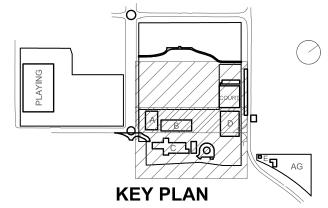
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Project Managers
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Designed

Job No.

5555

Drawing No.

BHS-CE-2012

MW B1

SSDA OCT '21 1:500

Status Date

New High School in Bungendore

Drawing Title BULK EARTHWORKS

LONGITUDINAL SECTIONS

MAJARA STREET, BUNGENDORE NSW 2621

Do not scale drawings. Verify all dimensions on site.

Rev Date Description

A 24.03.21 DRAFT SCHEMATIC DESIGN ISSUE
B 09.04.21 SCHEMATIC DESIGN
C 16.04.21 SCHEMATIC DESIGN
D 30.04.21 SCHEMATIC DESIGN
E 07.05.21 SCHEMATIC DESIGN
F 12.05.21 SCHEMATIC DESIGN
G 10.12.21 ISSUED FOR DD
H 14.02.22 GENERALLY REVISED
I 14.07.22 ISSUED FOR RTS REVISED DESIGN
J 30.09.22 RTS REVISED DD ISSUE
K 23.11.22 ISSUED FOR RTS

Reviewed Drawn Sheet

Surface Analysis: Elevation Ranges

-1.400

Minimum Elevation Maximum Elevation

-1.800

-1.600

-1.400

-1.200

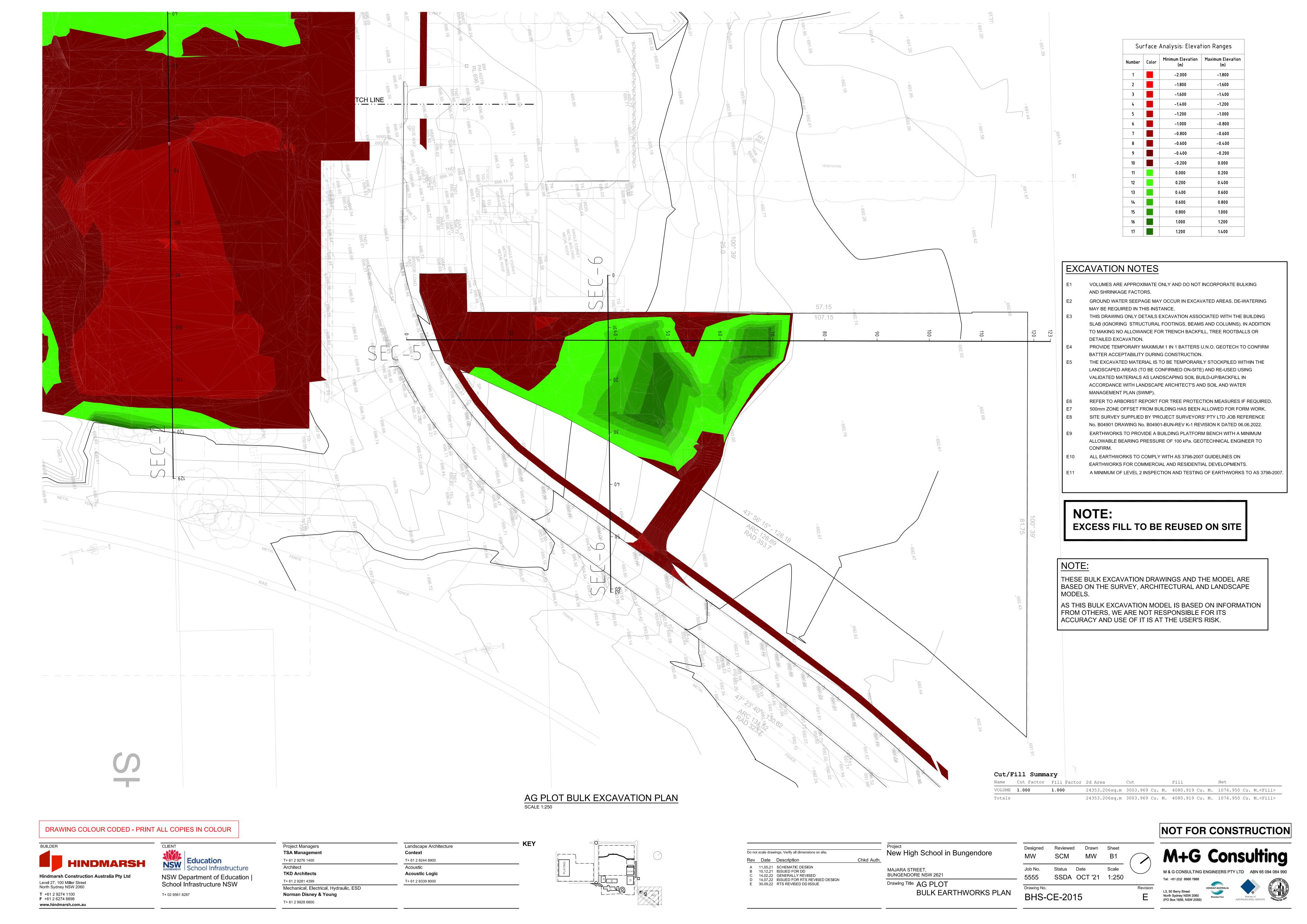
M+G Consulting

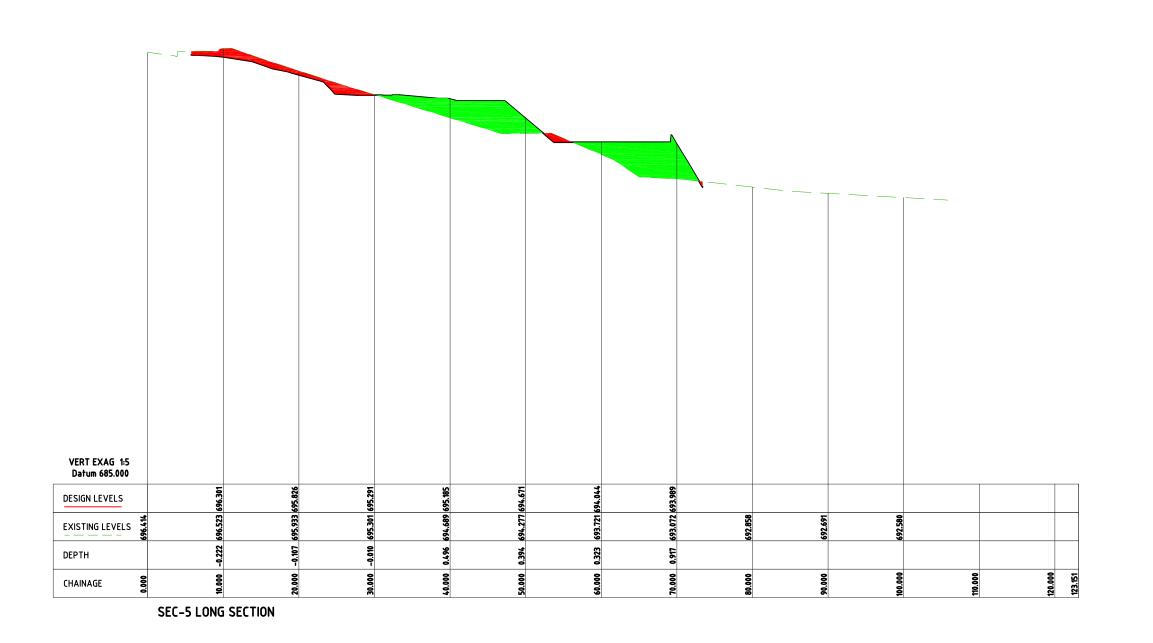


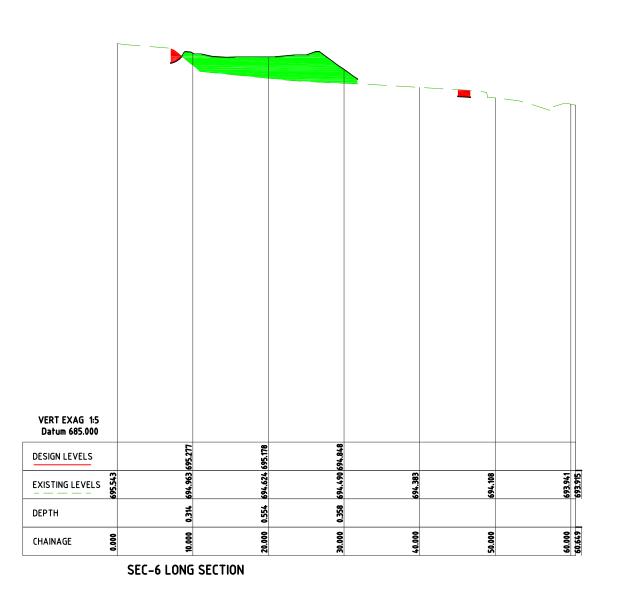












Su	rface	Analysis: Eleva	tion Ranges
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1		-2.000	-1.800
2		-1.800	-1.600
3		-1.600	-1.400
4		-1.400	-1.200
5		-1.200	-1.000
6		-1.000	-0.800
7		-0.800	-0.600
8		-0.600	-0.400
9		-0.400	-0.200
10		-0.200	0.000
11		0.000	0.200
12		0.200	0.400
13		0.400	0.600
14		0.600	0.800
15		0.800	1.000
16		1.000	1.200
47		4 200	4.400



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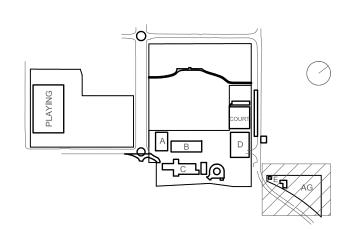
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Rev	Date	Description	Chkd Auth.
Α	11.05.21	SCHEMATIC DESIGN	
В	10.12.21	ISSUED FOR DD	
С	14.02.22	GENERALLY REVISED	
D	14.07.22	ISSUED FOR RTS REVISED DESIGN	
Е	30.09.22	RTS REVISED DD ISSUE	

ew High School in Bungendore JARA STREET, INGENDORE NSW 2621 awing Title AG PLOT **BULK EARTHWORKS**

LONGITUDINAL SECTIONS

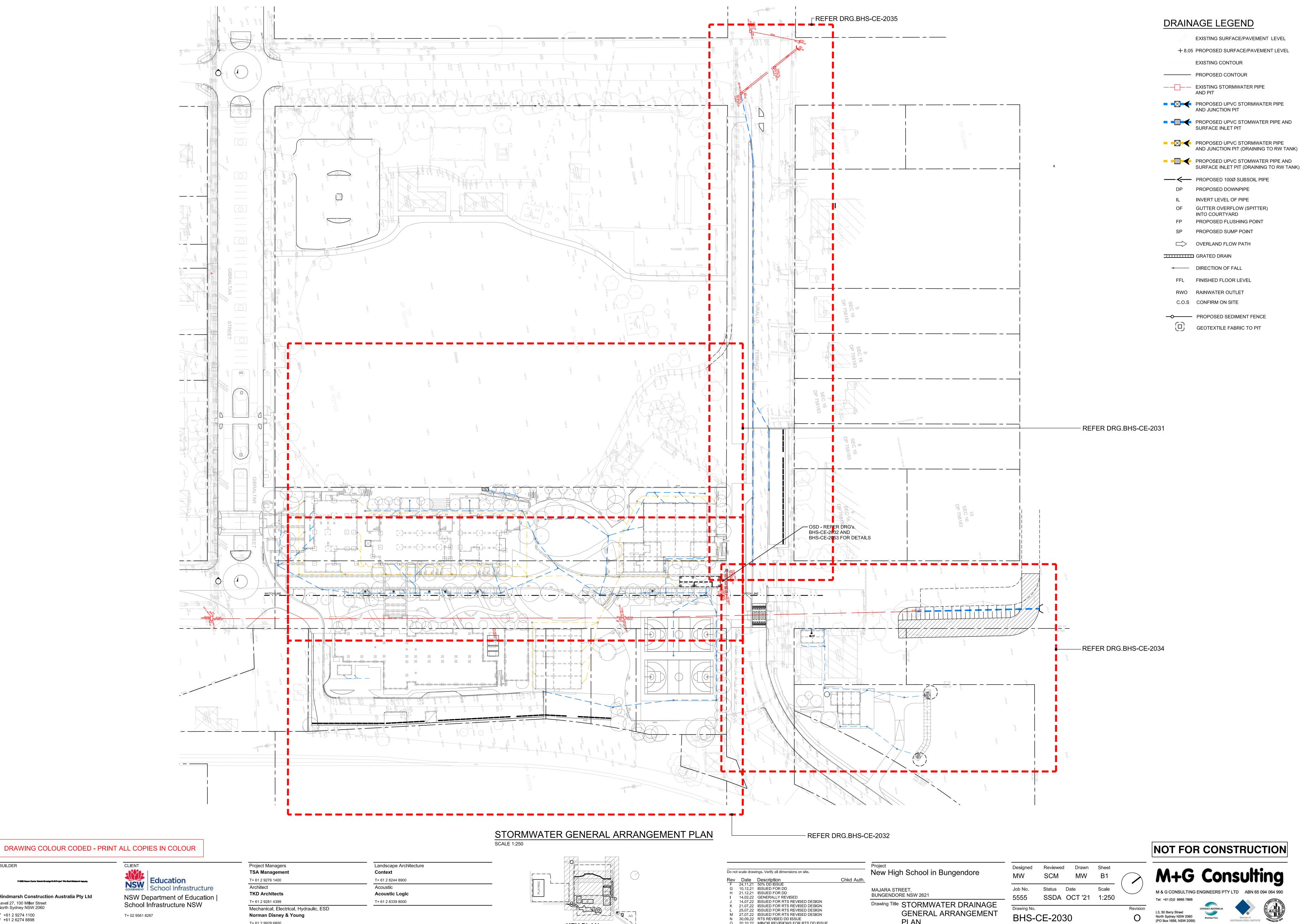
Designed	Reviewed	Drawn	Sheet	
MW	SCM	MW	B1	
Job No.	Status Da	ate	Scale	
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Dunius a Ma				_

BHS-CE-2016

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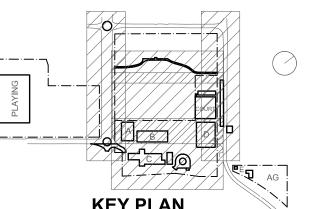
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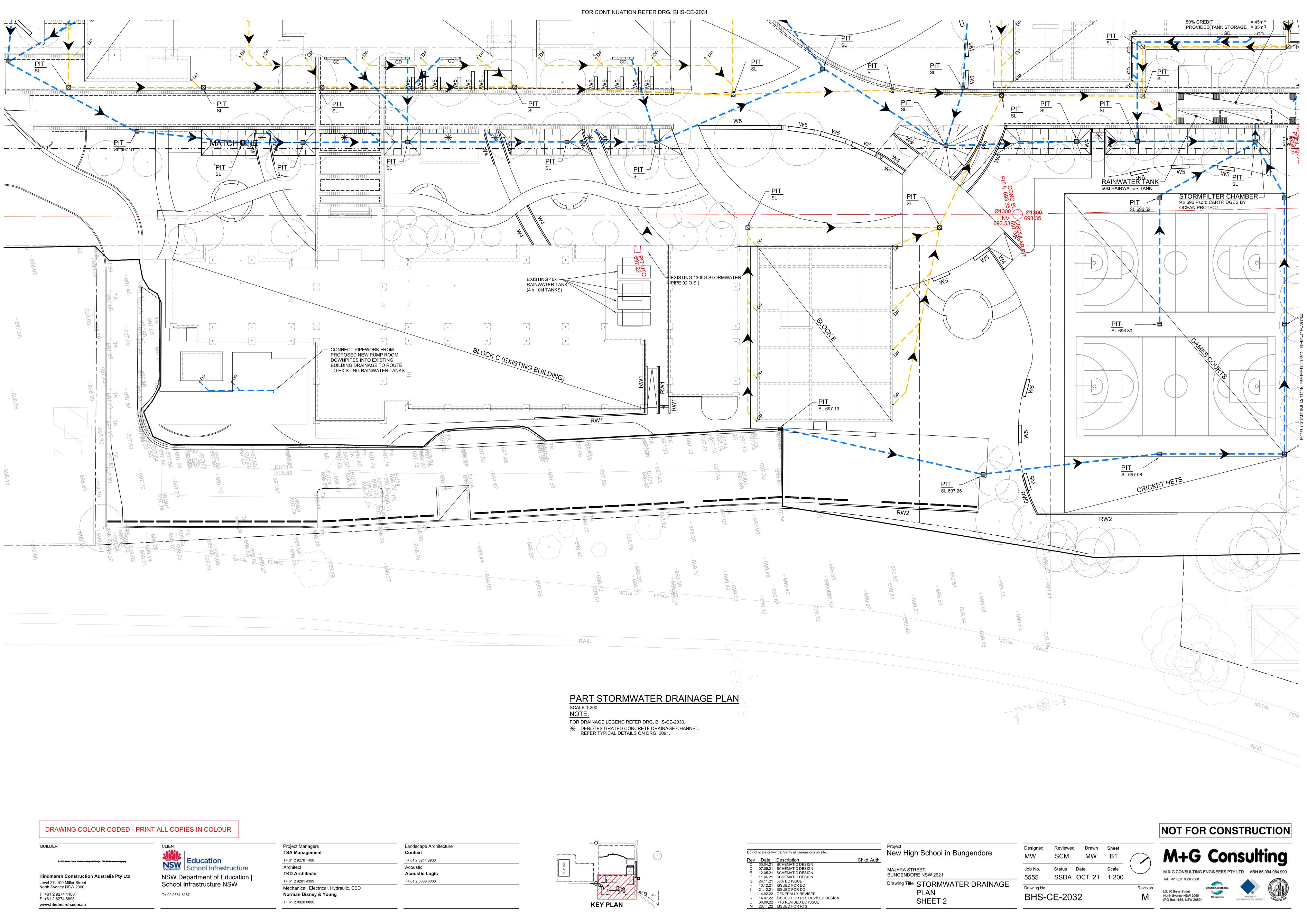
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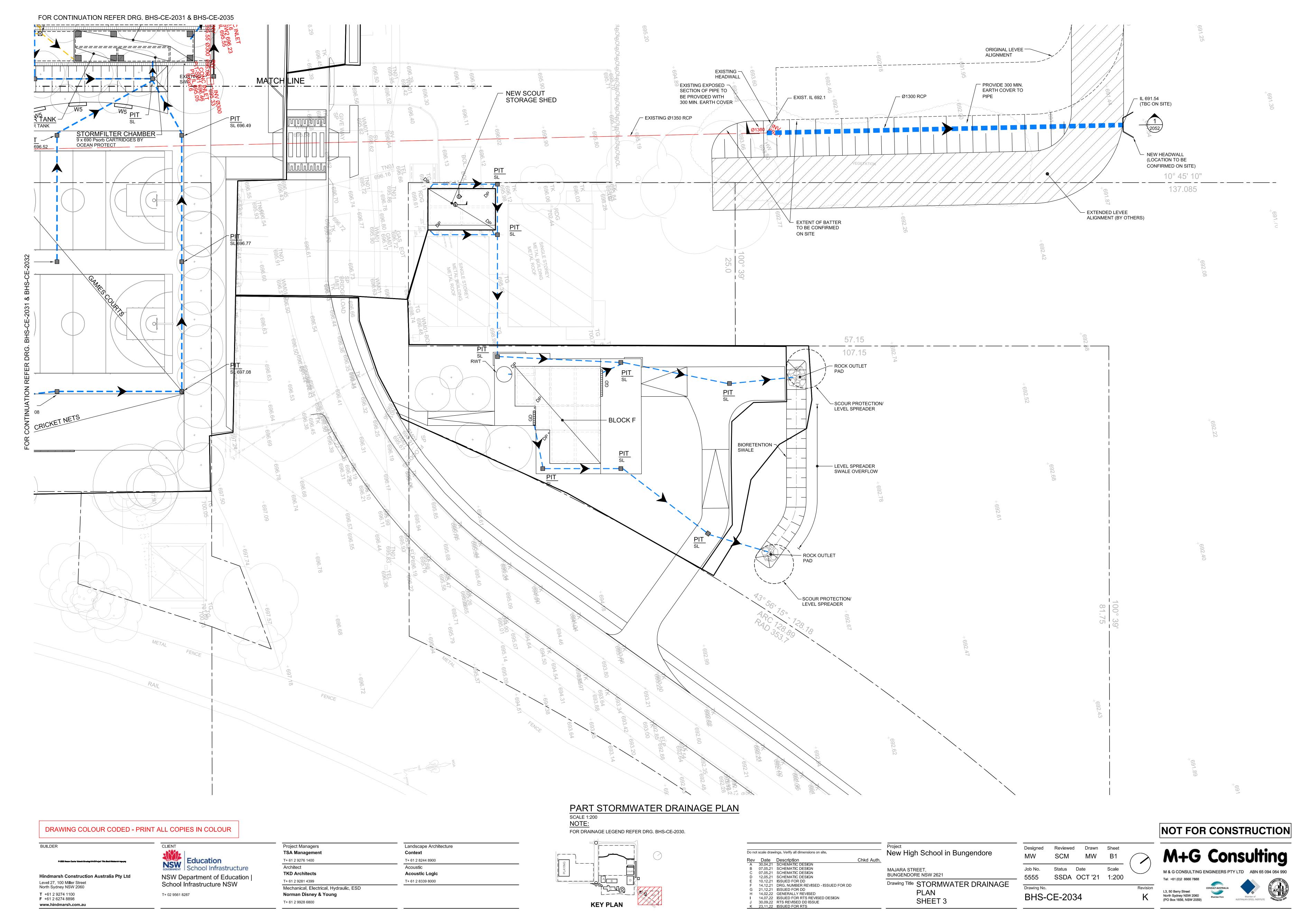


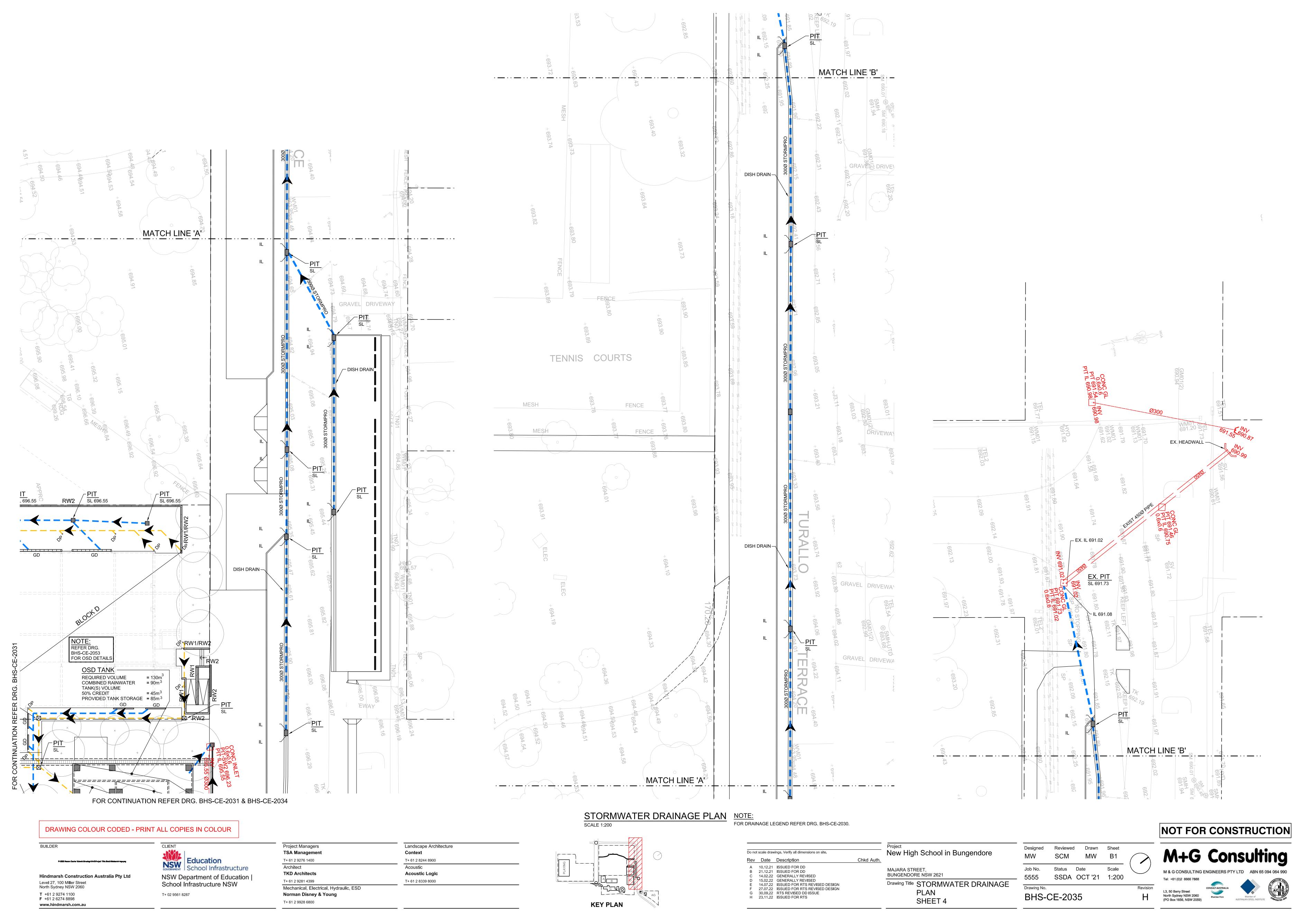
N 30.09.22 RTS REVISED DD ISSUE O 20.10.22 MINOR REVISIONS FOR RTS DD ISSUE

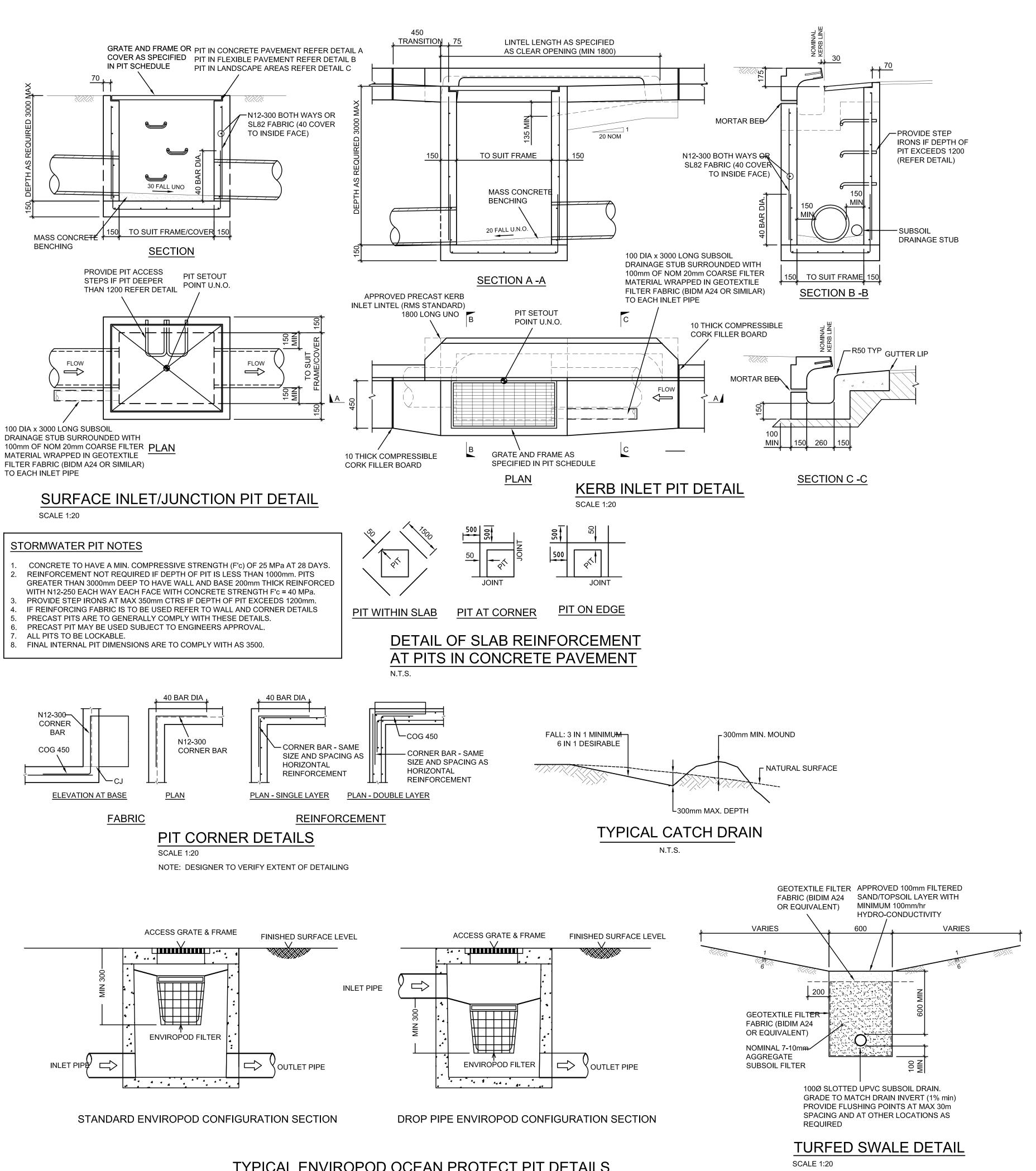
PLAN

Rev Date Description B 16.04.21 SCHEMATIC DESIGN C 30.04.21 SCHEMATIC DESIGN D 07.05.21 SCHEMATIC DESIGN E 12.05.21 SCHEMATIC DESIGN F 24.11.21 50% DD ISSUE G 10.12.21 ISSUED FOR DD H 21.12.21 ISSUED FOR DD I 14.02.22 GENERALLY REVISED J 14.07.22 ISSUED FOR RTS REVISED DESIGN K 30.09.22 RTS REVISED DD ISSUE School Infrastructure Architect Acoustic MAJARA STREET, BUNGENDORE NSW 2621 Scale Job No. Status Date TKD Architects Acoustic Logic 5555 SSDA OCT '21 1:200 Hindmarsh Construction Australia Pty Ltd NSW Department of Education | T+ 61 2 9281 4399 T+ 61 2 8339 8000 Level 27, 100 Miller Street North Sydney NSW 2060 Drawing Title STORMWATER DRAINAGE School Infrastructure NSW Mechanical, Electrical, Hydraulic, ESD Drawing No. PLAN L3, 50 Berry Street North Sydney NSW 2060 (PO Box 1656, NSW 2059) **T** +61 2 9274 1100 **F** +61 2 6274 8898 Norman Disney & Young T+ 02 9561 8287 BHS-CE-2031 SHEET 1 K 30.09.22 RTS REVISED DD ISSUE L 23.11.22 ISSUED FOR RTS T+ 61 2 9928 6800 **KEY PLAN** www.hindmarsh.com.au









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T+ 61 2 9928 6800

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Norman Disney & Young

Architect

Landscape Architecture

Context

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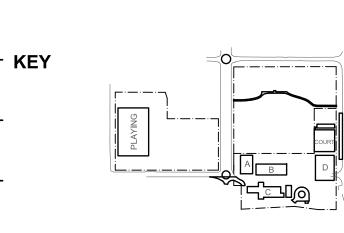
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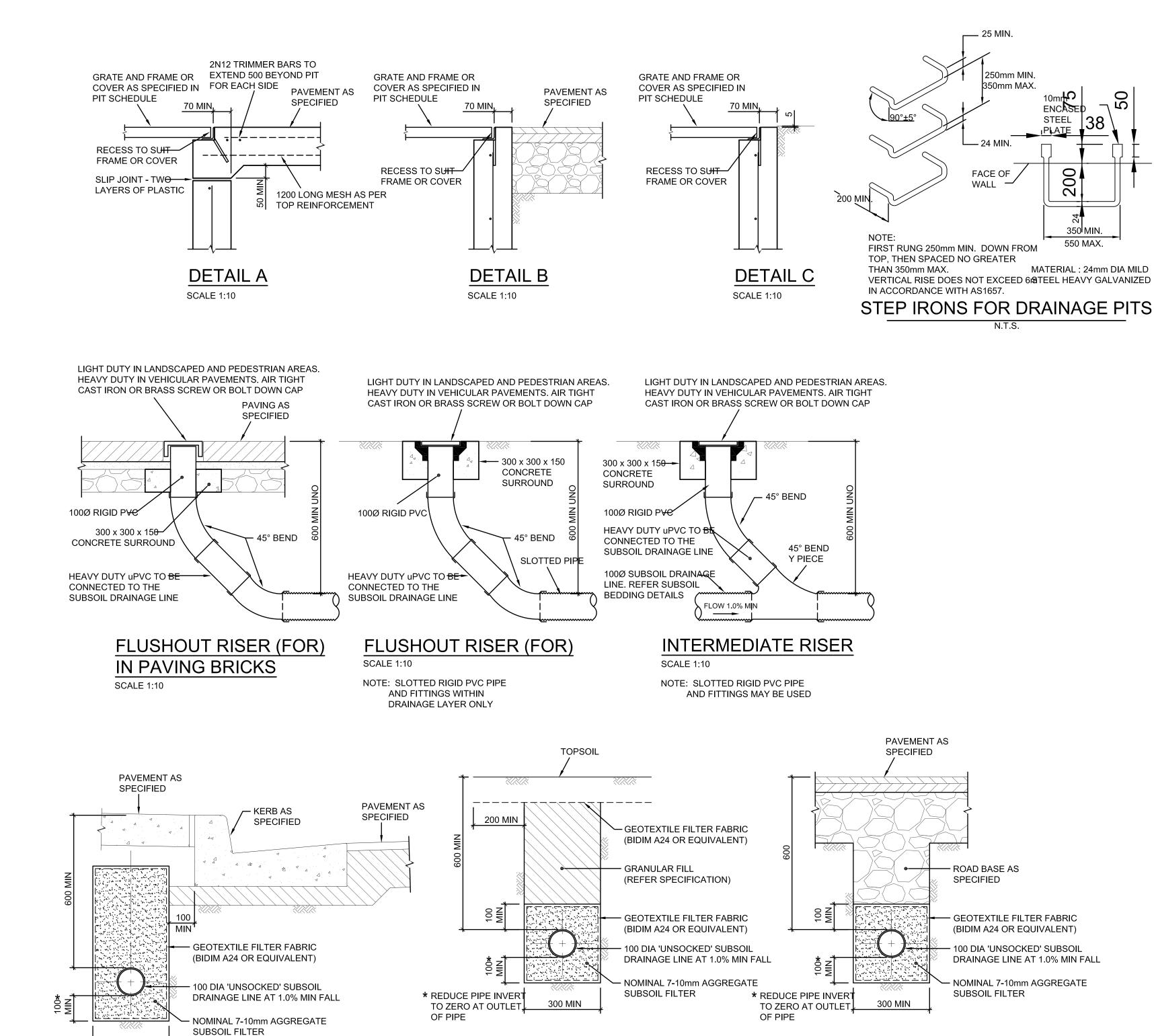
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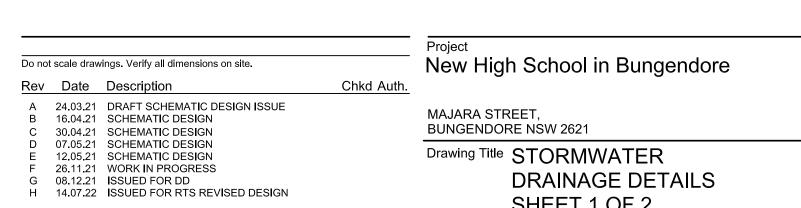




SUBSOIL IN LANDSCAPED AREAS

SCALE 1:10





300 MIN

* REDUCE PIPE INVERT

OF PIPE

TO ZERO AT OUTLET

SUBSOIL BEHIND KERB

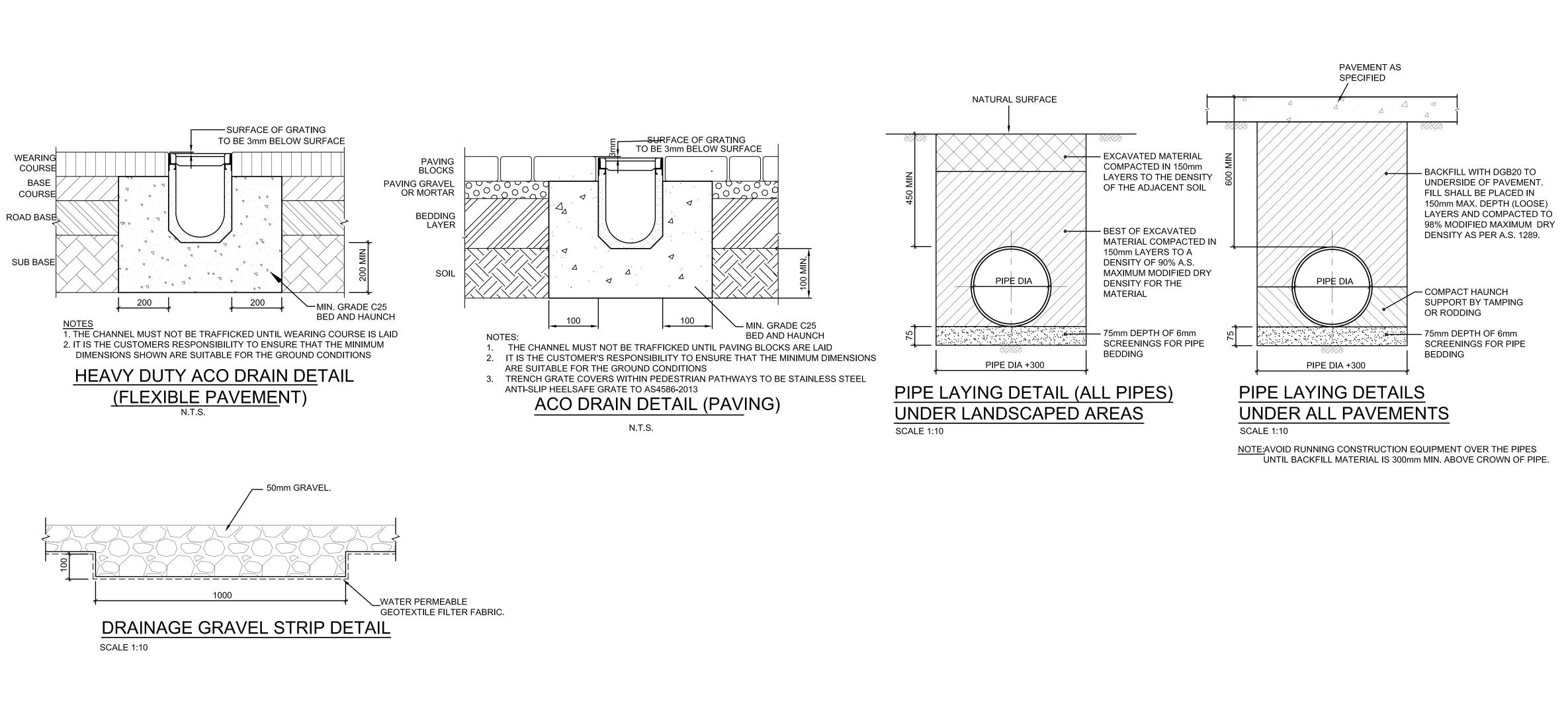
SCALE 1:10

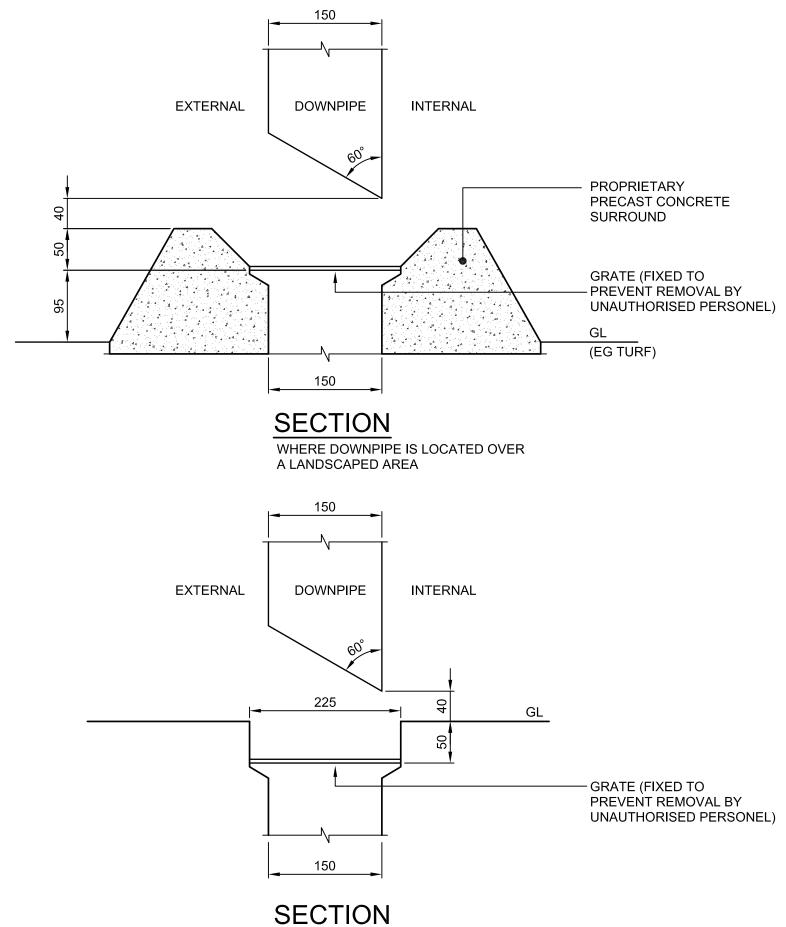
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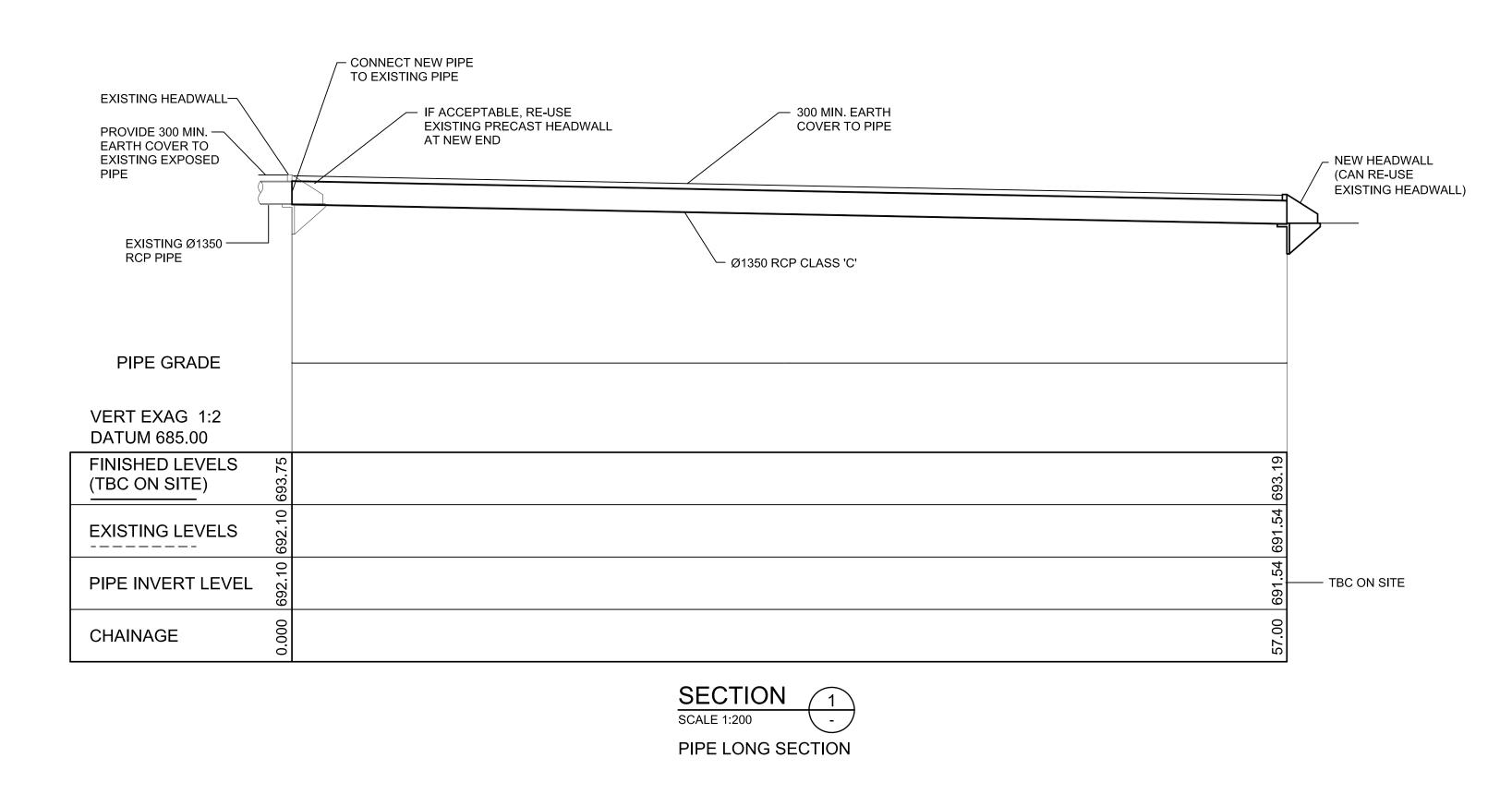
SUBSOIL IN PAVED AREAS

SCALE 1:10

Reviewed Drawn Sheet Designed M+G Consulting MW B1 Status Date Job No. SSDA OCT '21 AS NOTED AT B1 Drawing No. BHS-CE-2051 North Sydney NSW 2060 (PO Box 1656, NSW 2059) SHEET 1 OF 2







DOWNPIPE OUTLET DETAILS NOT TO SCALE

A LANDSCAPED AREA

WHERE DOWNPIPE IS LOCATED OVER

BUILDER P:\5555 Monaro Cluster Schools\Drawings\M+G\Project Title Block\Hindmarsh-logo.png

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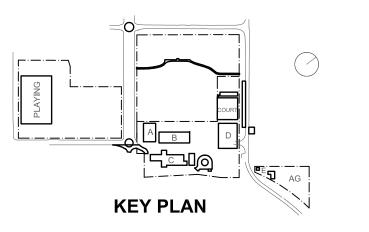
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B 08.12.21 ISSUED FOR DD
C 14.07.22 ISSUED FOR RTS REVISED DESIGN 30.09.22 RTS REVISED DD ISSUE E 23.11.22 ISSUED FOR RTS DRAINAGE DETAILS

New High School in Bungendore MAJARA STREET, **BUNGENDORE NSW 2621** Drawing Title STORMWATER

SHEET 2 OF 2

Reviewed Drawn Sheet Designed MW B1 Job No. Status Date SSDA OCT '21 AS NOTED AT B1

BHS-CE-2052

Drawing No.

— PROVIDE APPROPRIATE

SURFACE SIGNAGE FOR

FUTURE MAINTENANCE.

//\\/\\

- PROVIDE RUBBLE DRAINAGE

PIT (BLUE METAL WRAPPED

1.3m (W) x 1.3m (L) x 1.3m (D)

SELECTED RUBBLE TO MAKE A $\underline{MINIMUM}$ VOID RATIO = 0.4.

MIN. VOL = 2.1m

IN GEOFABRIC) APPROXIMATELY

RUBBLE PIT DETAIL

SCALE 1:20

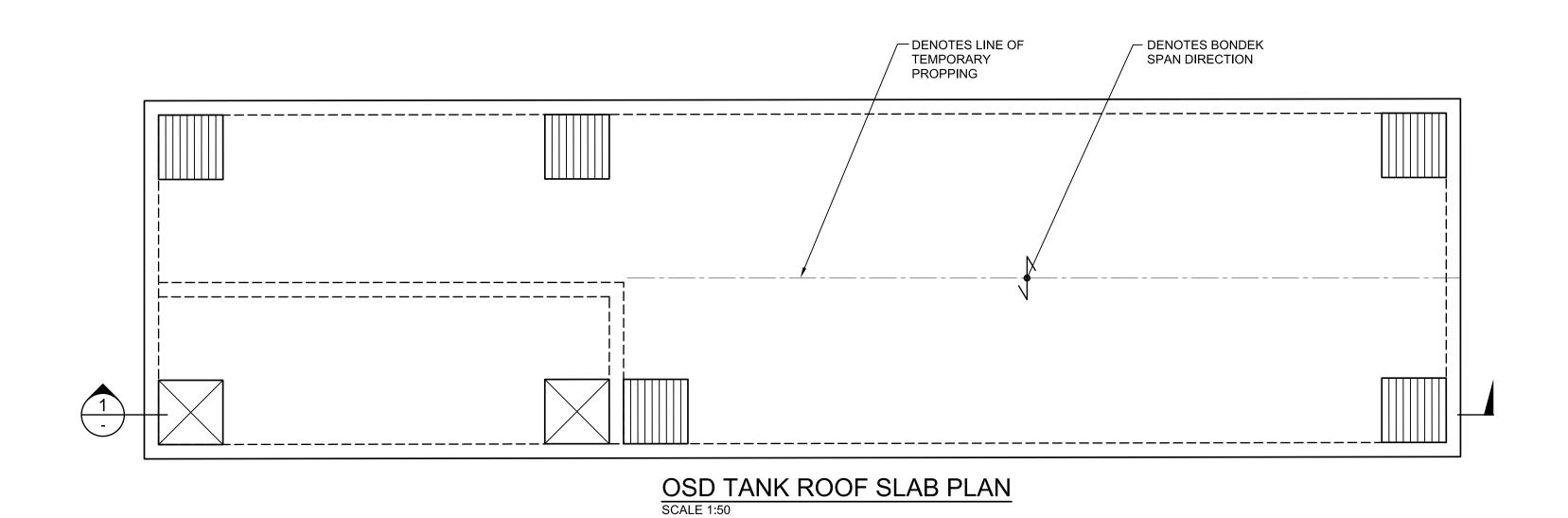
INLET PIPE-

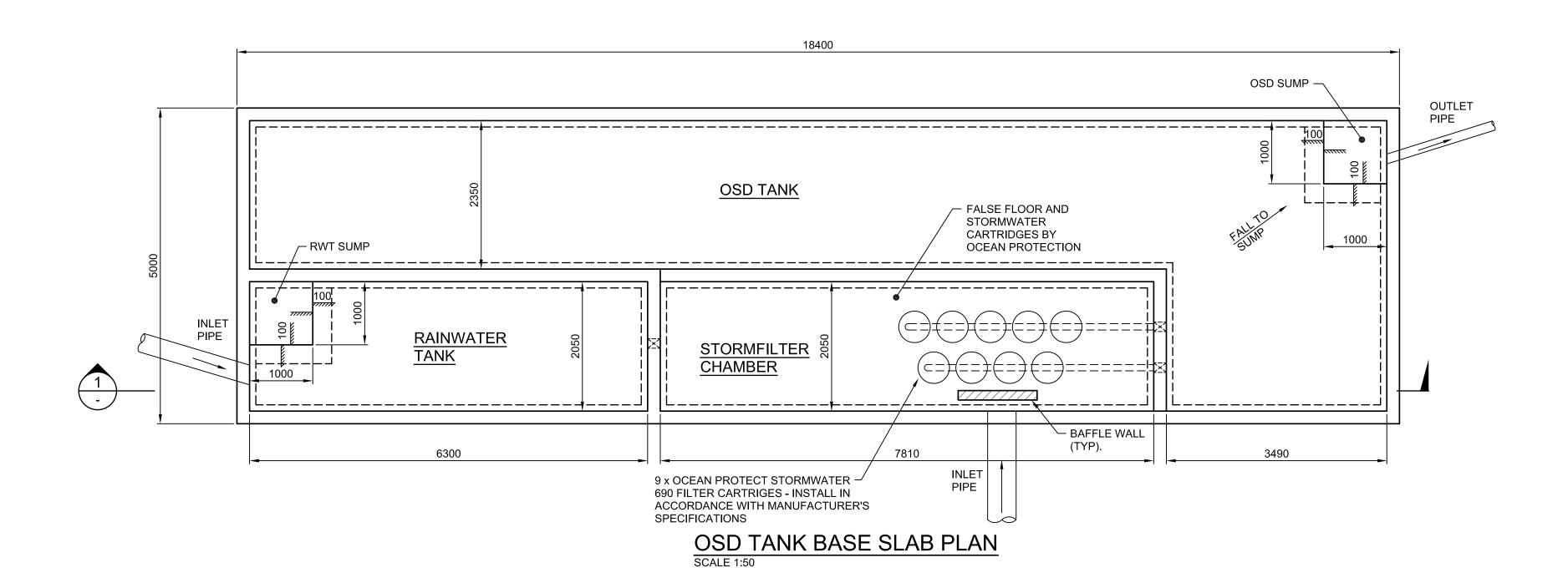
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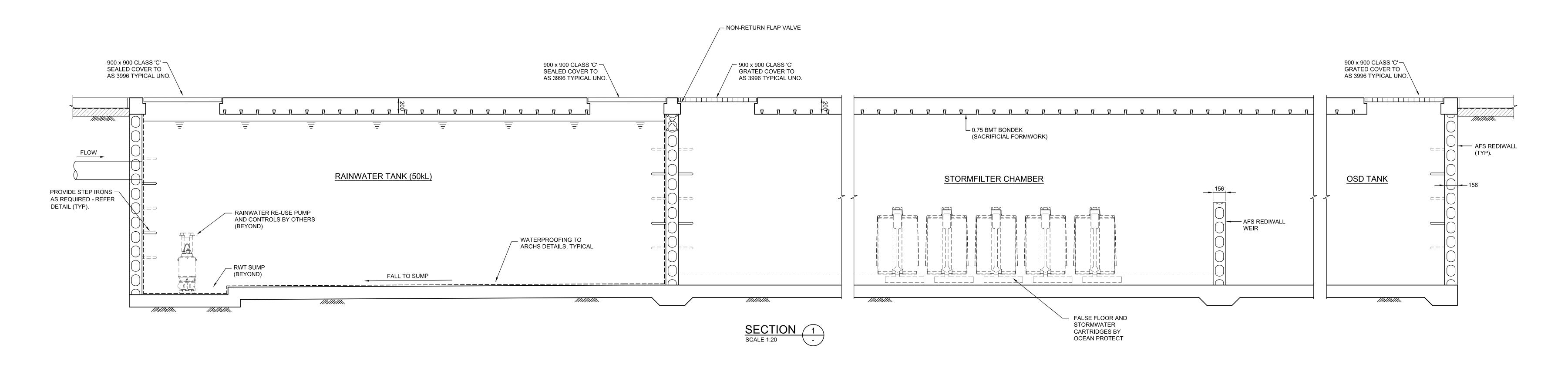














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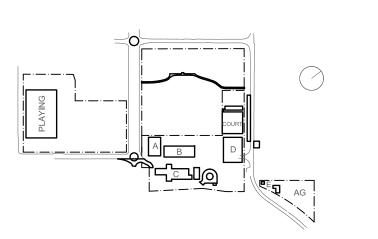
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Project Managers
TSA Management
Context

T+ 61 2 9276 1400
Architect
Acoustic

TKD Architects
Acoustic Logic

T+ 61 2 9281 4399
T+ 61 2 9281 4399
Mechanical, Electrical, Hydraulic, ESD



				Project
Do no	t scale drav	vings. Verify all dimensions on site.		New High School in Bungendore
Rev	Date	Description	Chkd Auth.	
A B C		ISSUED FOR DD GENERALLY REVISED RTS REVISED DD ISSUE		MAJARA STREET, BUNGENDORE NSW 2621
				Drawing Title STORMWATER DRAINAGE DETAILS SHEET 3 OF 3

Designed Reviewed Drawn Sheet

MW SCM MW B1

Job No. Status Date Scale

5555 DD OCT '21 AS NOTED AT B1

Drawing No. Revision

BHS-CE-2053 C

M+G Consulting

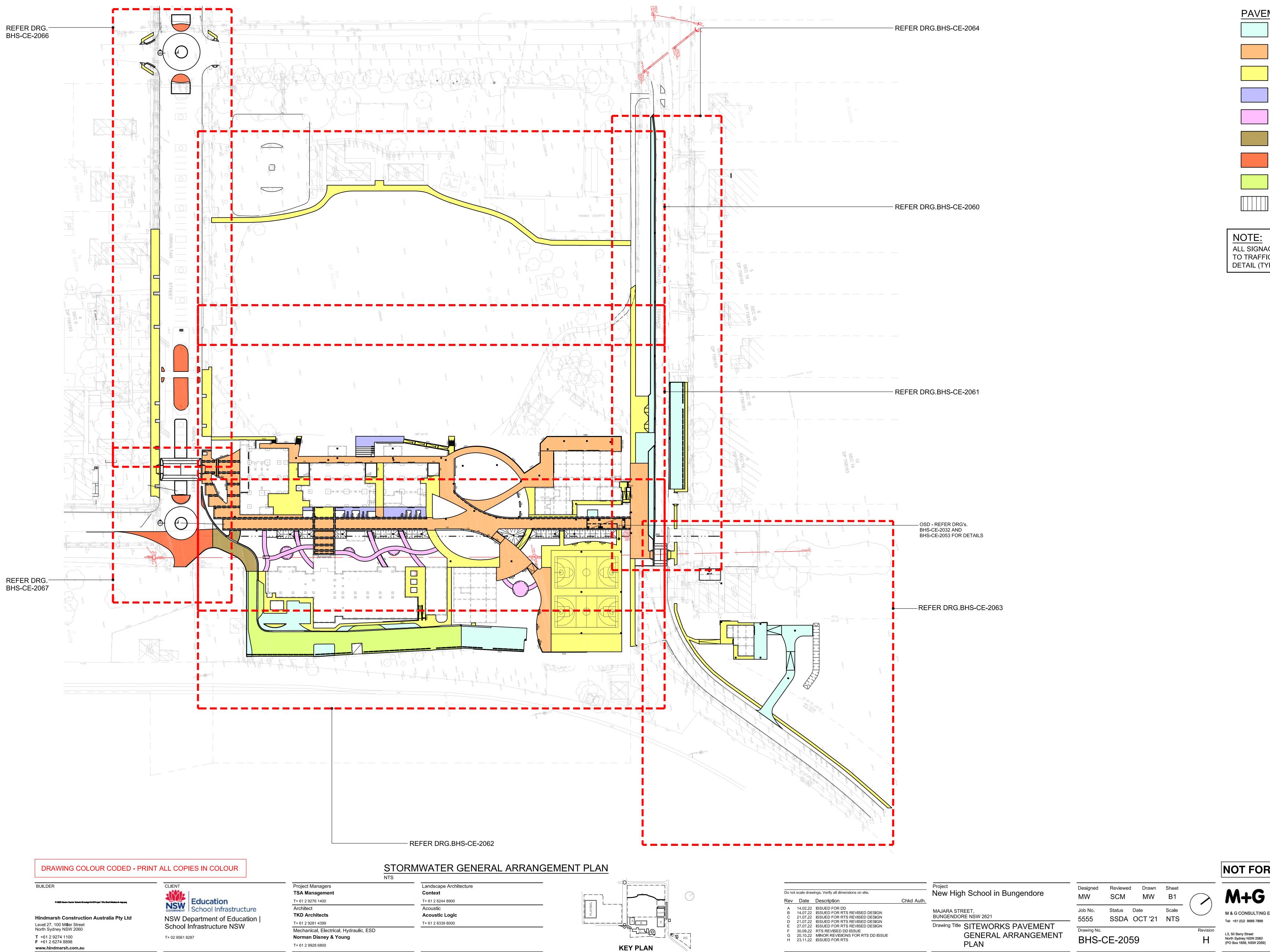
M & G CONSULTING ENGINEERS PTY LTD

ABN 65 094 064 990

Tel: +61 (0)2 8666 7888







PAVEMENT LEGEND

PAVEMENT TYPE 1 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 2 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 3 - REFER DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 4 - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

PAVEMENT TYPE 5 - REFER DRG. BHS-CE-2091 FOR DETAILS

DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 7 - REFER

DRG. BHS-CE-2091 FOR DETAILS DENOTES EXISTING PAVEMENT TO REMAIN

DENOTES RECYCLED BRICK PAVING DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 6 - REFER

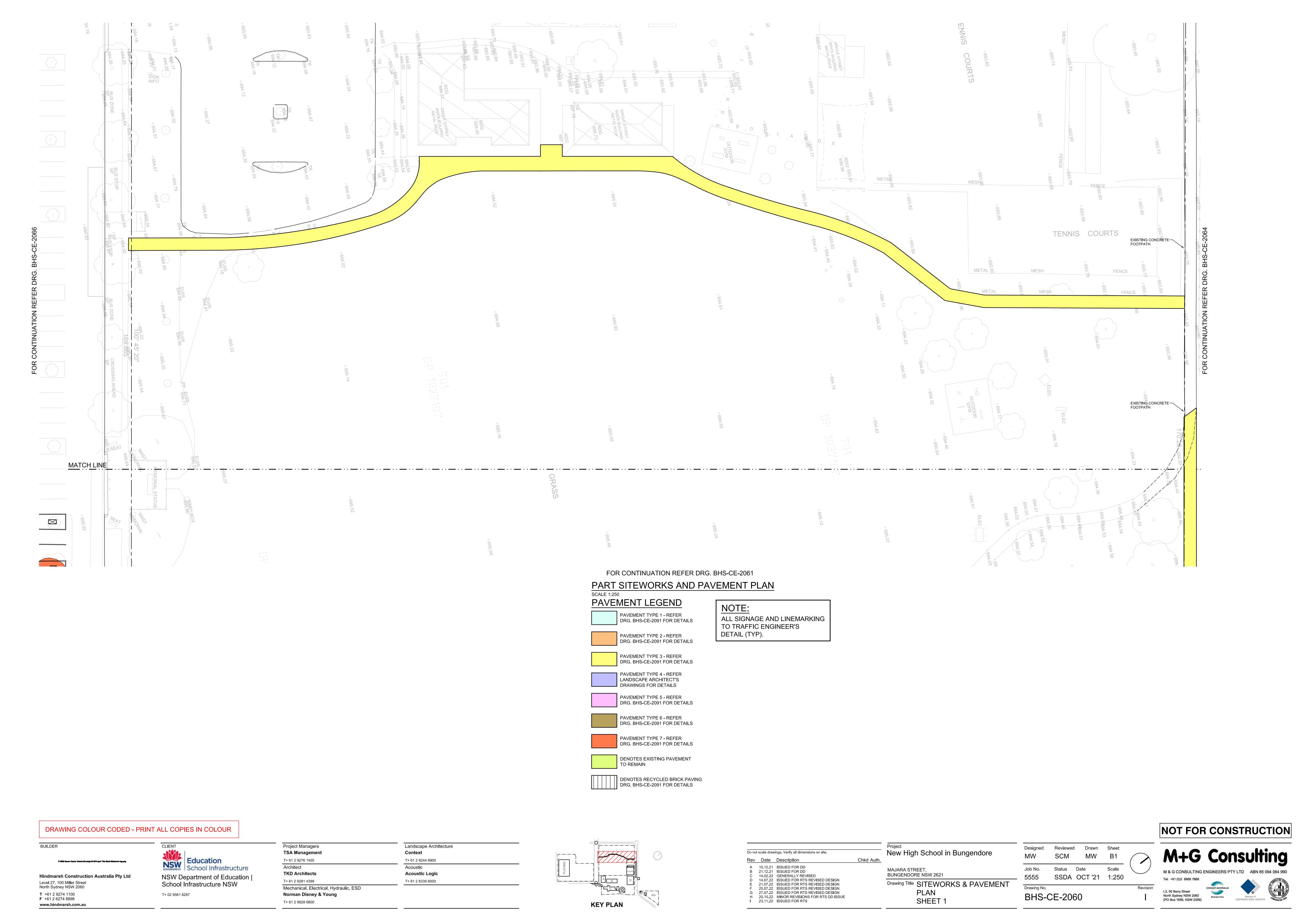
ALL SIGNAGE AND LINEMARKING TO TRAFFIC ENGINEER'S DETAIL (TYP).

NOT FOR CONSTRUCTION

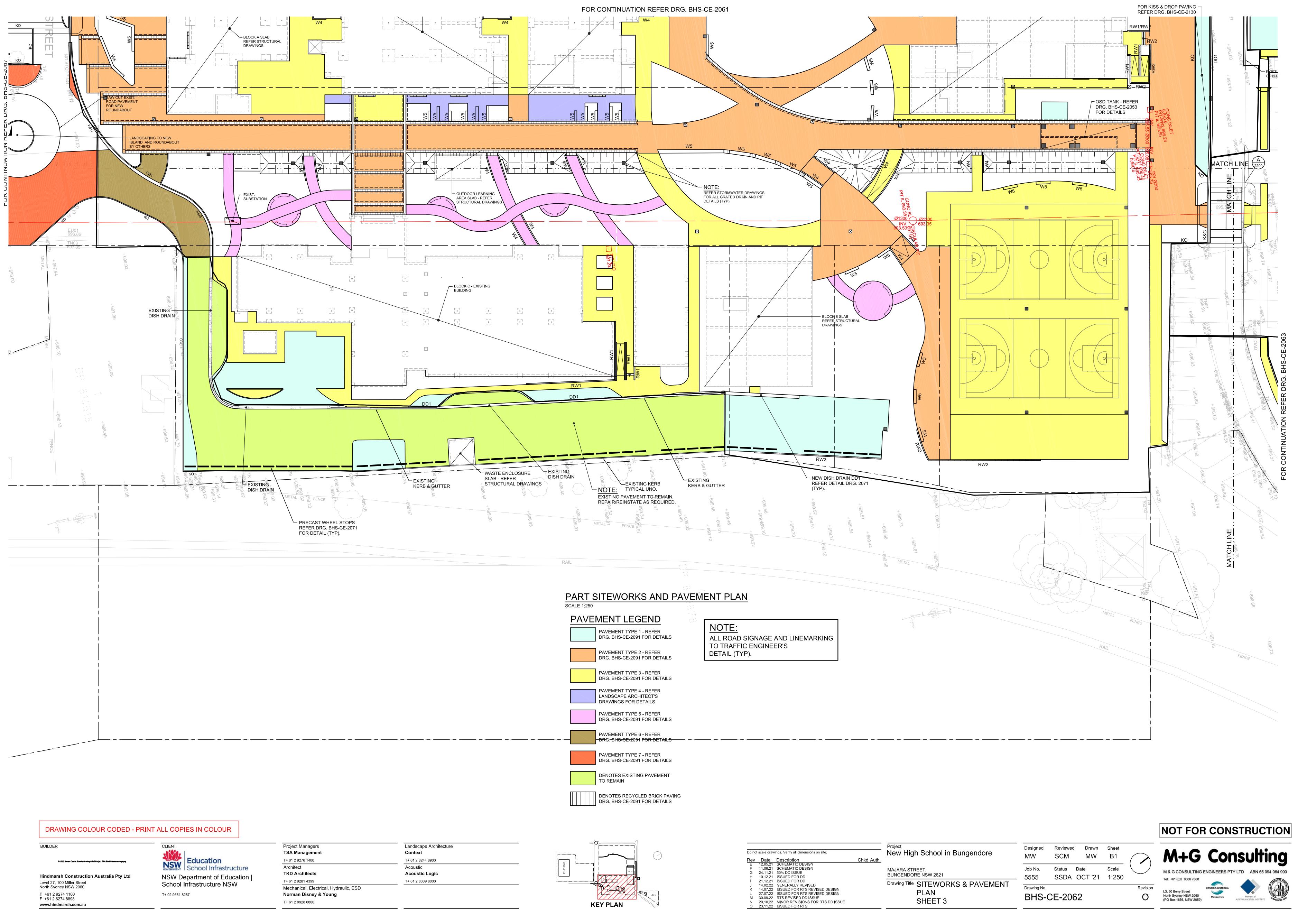


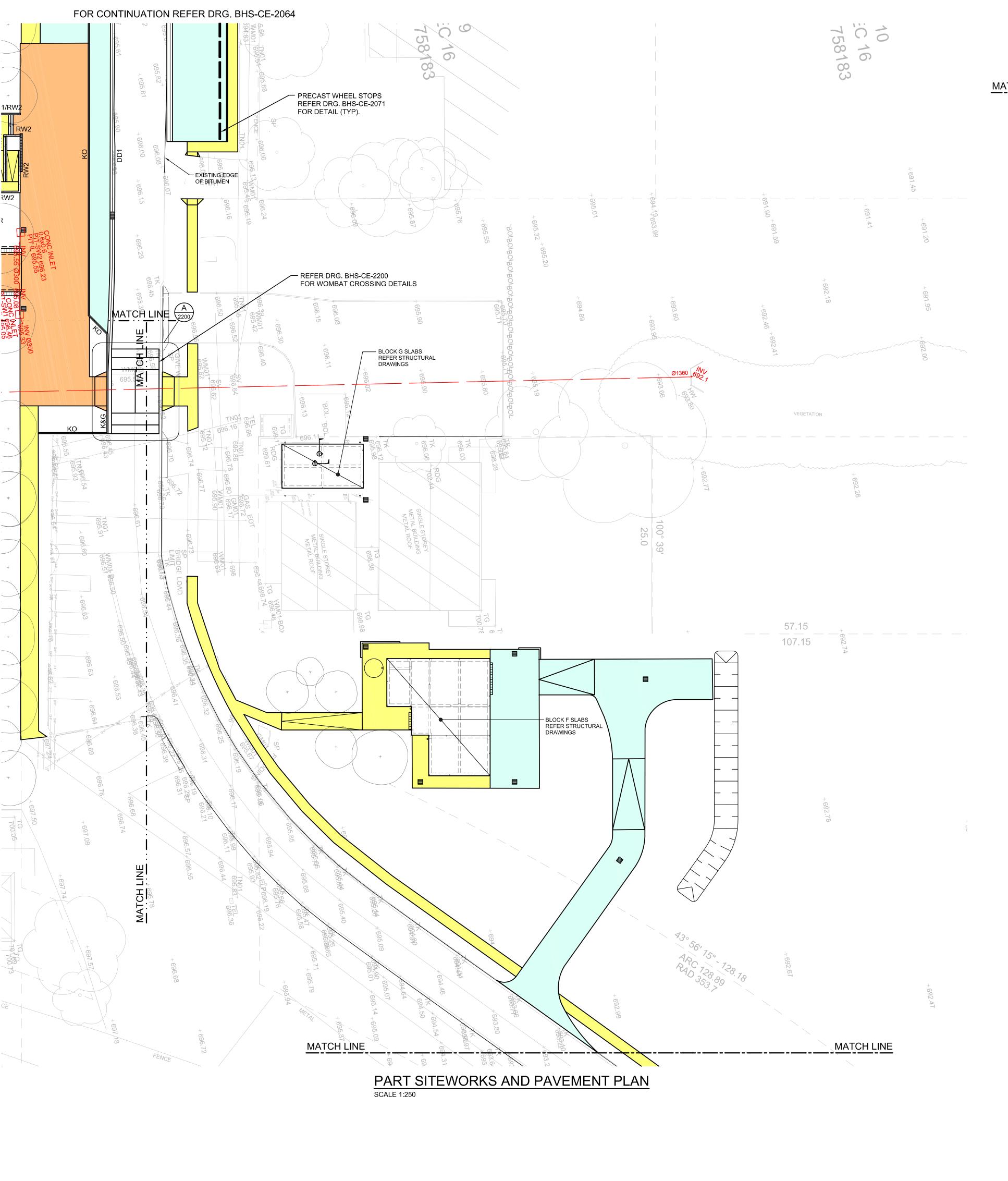


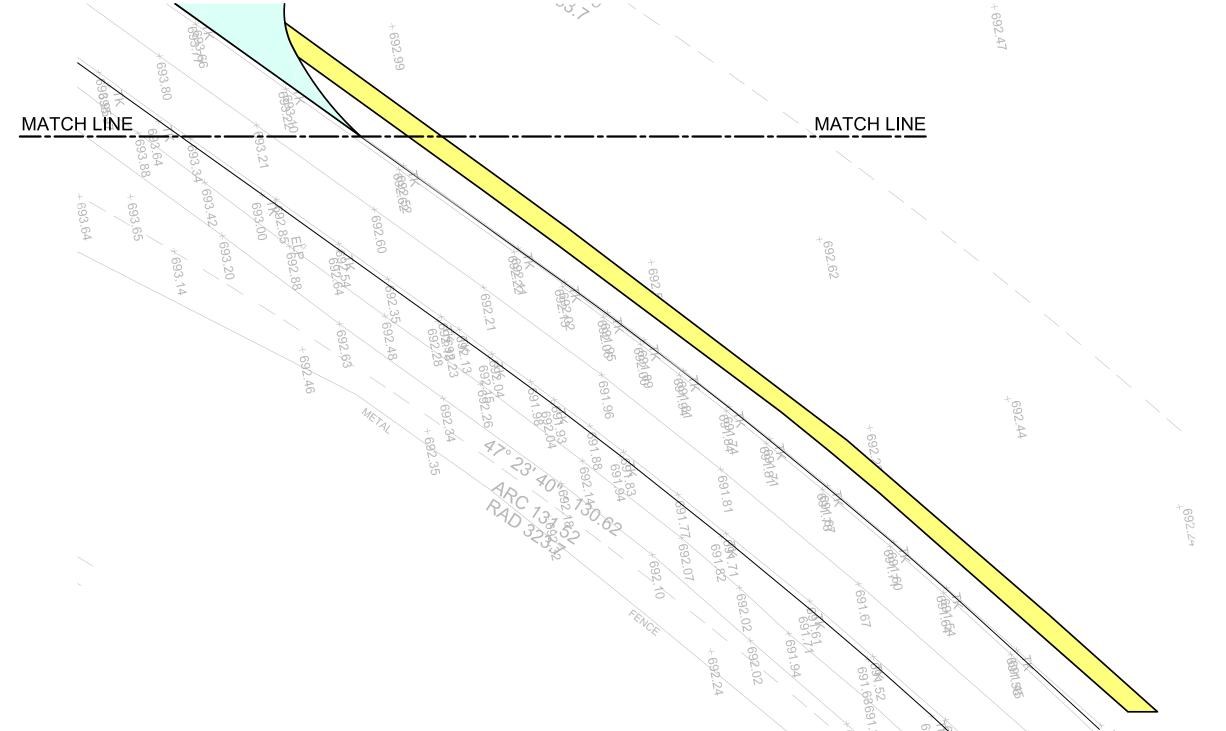




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PART SITEWORKS AND PAVEMENT PLAN SCALE 1:250

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PAVEMENT LEGEND

PAVEMENT TYPE 1 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 2 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 3 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 4 - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

PAVEMENT TYPE 5 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 6 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 7 - REFER DRG. BHS-CE-2091 FOR DETAILS

DENOTES EXISTING PAVEMENT TO REMAIN

DENOTES RECYCLED BRICK PAVING DRG. BHS-CE-2091 FOR DETAILS

ALL SIGNAGE AND LINEMARKING

TO TRAFFIC ENGINEER'S

NOTE:

DETAIL (TYP).

BUILDER

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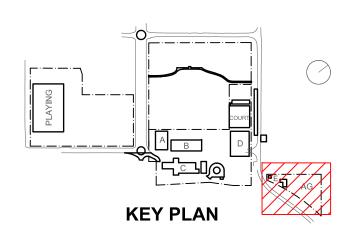
Project Managers TSA Management T+ 61 2 9276 1400 Architect TKD Architects T+ 61 2 9281 4399

Mechanical, Electrical, Hydraulic, ESD

Norman Disney & Young

T+ 61 2 9928 6800

Landscape Architecture Context T+ 61 2 8244 8900 Acoustic Acoustic Logic T+ 61 2 8339 8000



Do not scale drawings. Verify all dimensions on site. Rev Date Description Chkd Auth. A 10.12.21 ISSUED FOR DD
B 21.12.21 ISSUED FOR DD
C 14.02.22 GENERALLY REVISED
D 14.07.22 ISSUED FOR RTS REVISED DESIGN
E 27.07.22 ISSUED FOR RTS REVISED DESIGN
F 30.09.22 RTS REVISED DD ISSUE
G 20.10.22 MINOR REVISIONS FOR RTS DD ISSUE
H 23.11.22 ISSUED FOR RTS

New High School in Bungendore

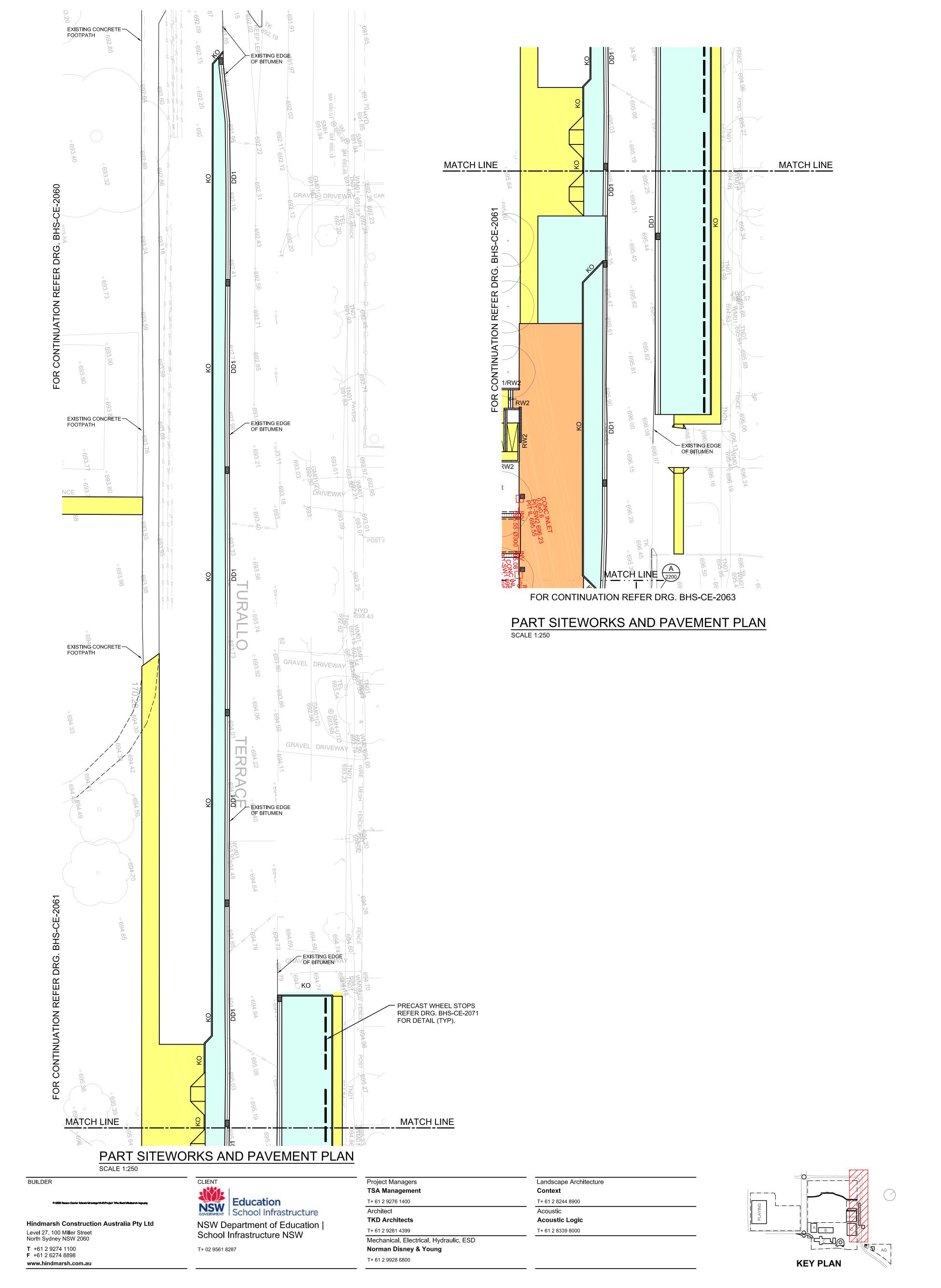
MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title SITEWORKS & PAVEMENT PLAN SHEET 4

Designed Reviewed Drawn Sheet Scale Job No. Status Date 5555 SSDA OCT '21 1:250 Drawing No.

BHS-CE-2063

L3, 50 Berry Street North Sydney NSW 2060 (PO Box 1656, NSW 2059)





PAVEMENT LEGEND PAVEMENT TYPE 1 - REFER DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 2 - REFER DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 3 - REFER DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 4 - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS PAVEMENT TYPE 5 - REFER DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 6 - REFER DRG. BHS-CE-2091 FOR DETAILS PAVEMENT TYPE 7 - REFER DRG. BHS-CE-2091 FOR DETAILS DENOTES EXISTING PAVEMENT TO REMAIN DENOTES RECYCLED BRICK PAVING DRG. BHS-CE-2091 FOR DETAILS

NOTE:

ALL ROAD SIGNAGE AND LINEMARKING TO TRAFFIC ENGINEER'S DETAIL (TYP).

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Do not scale drawings. Verify all dimensions on site. RevDateDescriptionA20.10.22RTS REVISED DD ISSUEB23.11.22ISSUED FOR RTS Chkd Auth.

New High School in Bungendore

SHEET 5

MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title SITEWORKS & PAVEMENT PLAN

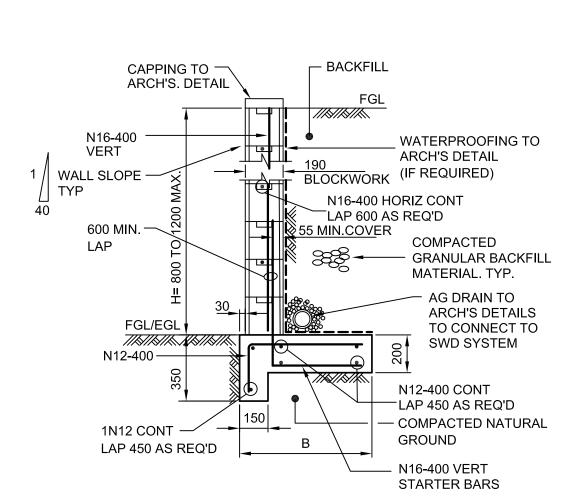
Designed Reviewed Drawn Sheet Scale Job No. Status Date 5555 SSDA OCT '21 1:250 Drawing No.

BHS-CE-2064

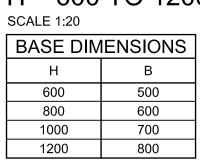


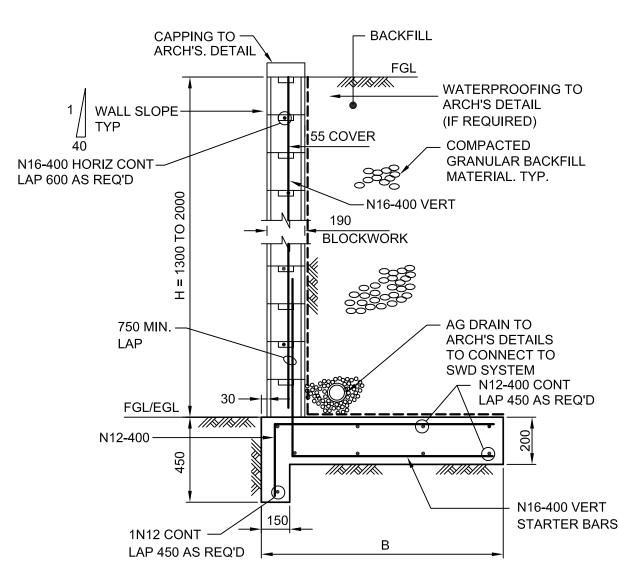






TYPICAL RETAINING WALL DETAIL H = 600 TO 1200 MAX

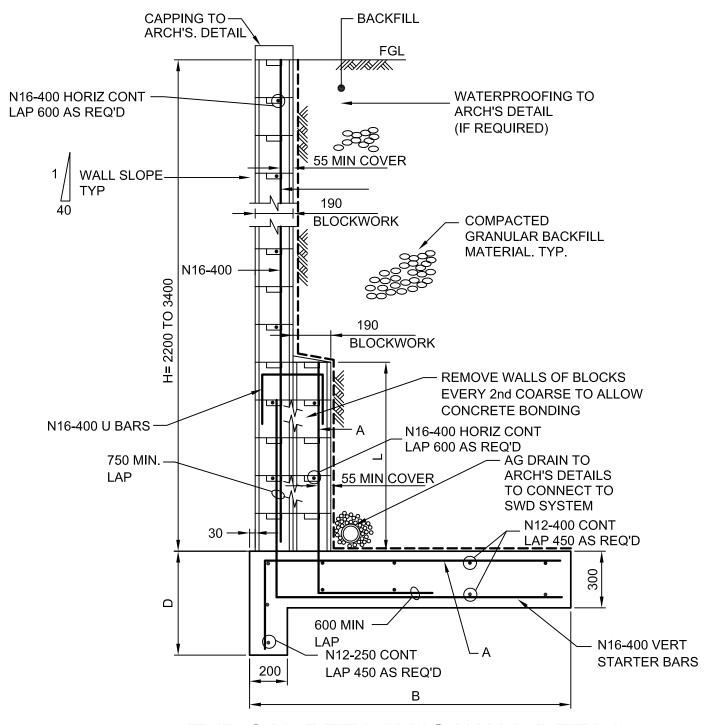




TYPICAL RETAINING WALL DETAIL

H = 1300 TO 1600 MAX SCALE 1:20

BASE DIM	IENSIONS
Н	В
1400	1000
1600	1100
1800	1200



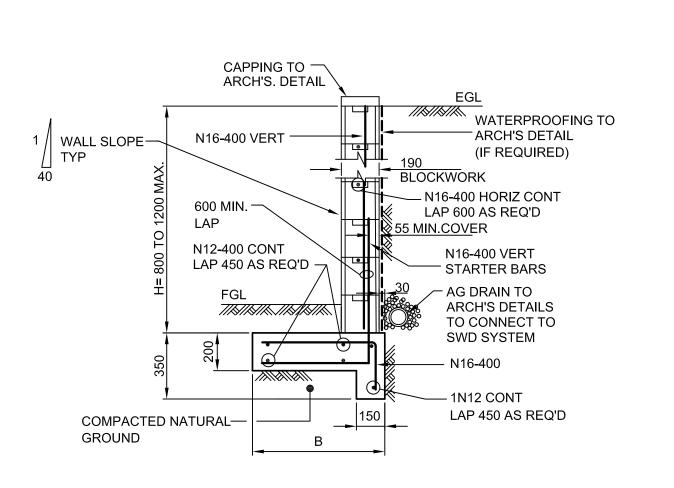
TYPICAL RETAINING WALL DETAIL

H = 2200 TO 3400 MAX SCALE 1:20

	BASE	DIMENS	SIONS	
Н	В	L	Α	D
2200	1400	600	N16-400	550
2400	1600	800	N16-400	550
2600	1800	1000	N16-400	550
2800	2000	1200	N16-400	550
3000	2300	1400	N20-400	750
3200	2600	1600	N20-400	750
3400	3000	1800	N20-400	750



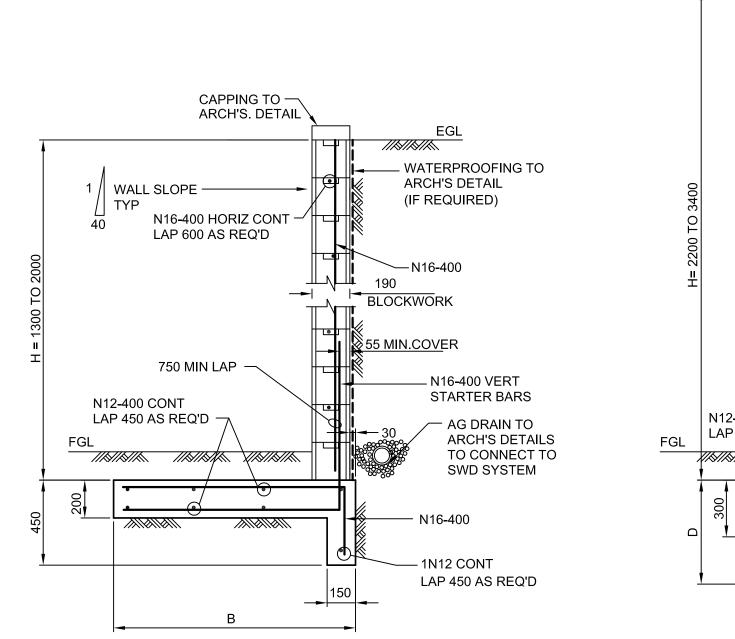
- PROVIDE CLEAN OUT HOLES TO BTM. COURSE FILL ALL CORES WITH CONCRETE: 10mm AGG. 15 MPa 225 SLUMP
- 2. 50 MIN. COVER TO ALL BASE REINFORCEMENT. BACKFILL TO BE COMPACTED CLEAN GRANULAR FREE DRAINING MATERIAL.



TYPICAL RETAINING WALL DETAIL H = 600 TO 1200 MAX

BASE DIM	IENSIONS
Н	В
600	500
800	600
1000	700
1200	800

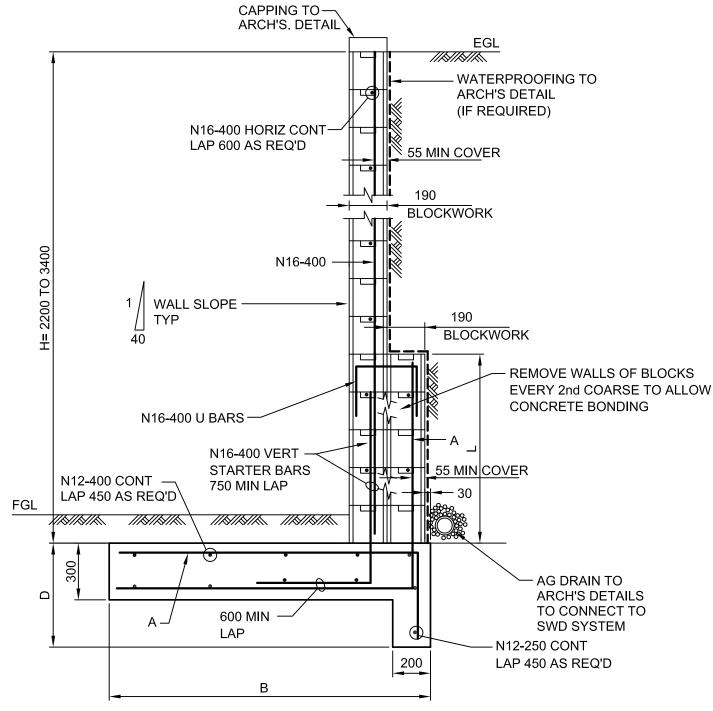
TYPICAL RETAINING WALL DETAILS IN FILL **DENOTED RW1 ON PLANS**



TYPICAL RETAINING WALL DETAIL H = 1300 TO 1600 MAX SCALE 1:20

BASE DIM	IENSIONS
Н	В
1400	1000
1600	1100
1800	1200

T+ 61 2 9928 6800



TYPICAL RETAINING WALL DETAIL H = 2200 TO 3400 MAX SCALE 1:20

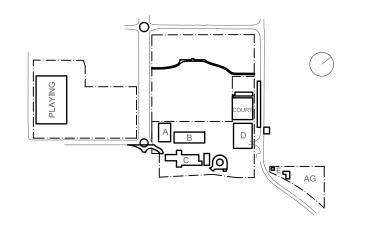
	BASE	DIMENS	SIONS	
Н	В	L	Α	D
2200	1400	600	N16-400	550
2400	1600	800	N16-400	550
2600	1800	1000	N16-400	550
2800	2000	1200	N16-400	550
3000	2300	1400	N20-400	750
3200	2600	1600	N20-400	750
3400	3000	1800	N20-400	750

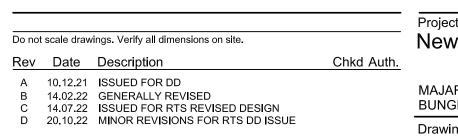
TYPICAL RETAINING WALL DETAILS IN CUT **DENOTED RW2 ON PLANS**

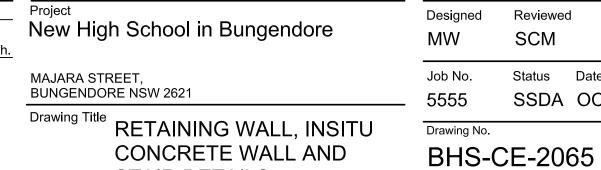




Project Managers Landscape Architecture TSA Management Context T+ 61 2 9276 1400 T+ 61 2 8244 8900 Architect Acoustic **TKD Architects** Acoustic Logic T+ 61 2 9281 4399 T+ 61 2 8339 8000 Mechanical, Electrical, Hydraulic, ESD Norman Disney & Young







STAIR DETAILS

(f'c=25MPa)

APPROVED EQUIVALENT

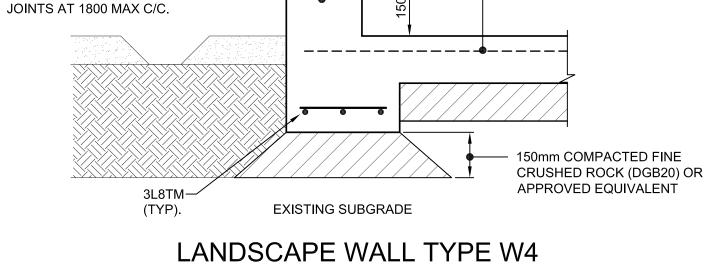
Designed	Reviewed	Drawn	Sheet
MW	SCM	MW	B1
Job No.	Status	Date	Scale
5555	SSDA	OCT '21	1:20

Drawing No.



NOT FOR CONSTRUCTION





MASS CONCRETE (f'c=25MPa)

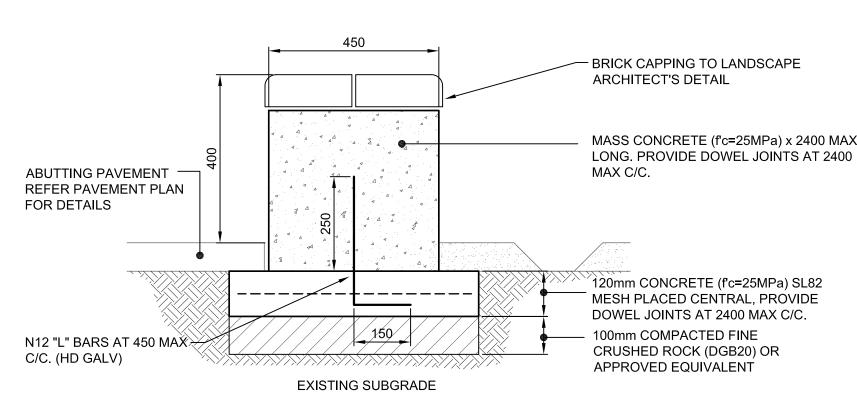
x 1800 MAX LONG. PROVIDE DOWEL

DENOTED W4 ON PLAN

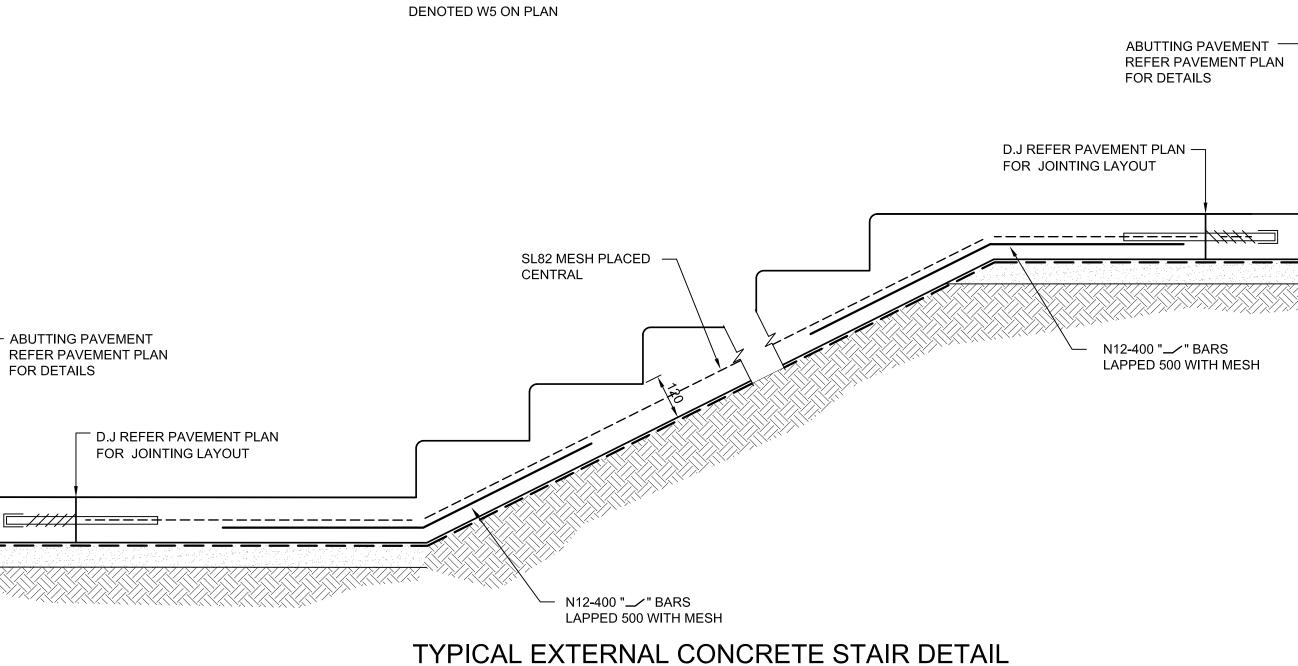
ABUTTING PAVEMENT

FOR DETAILS

REFER PAVEMENT PLAN

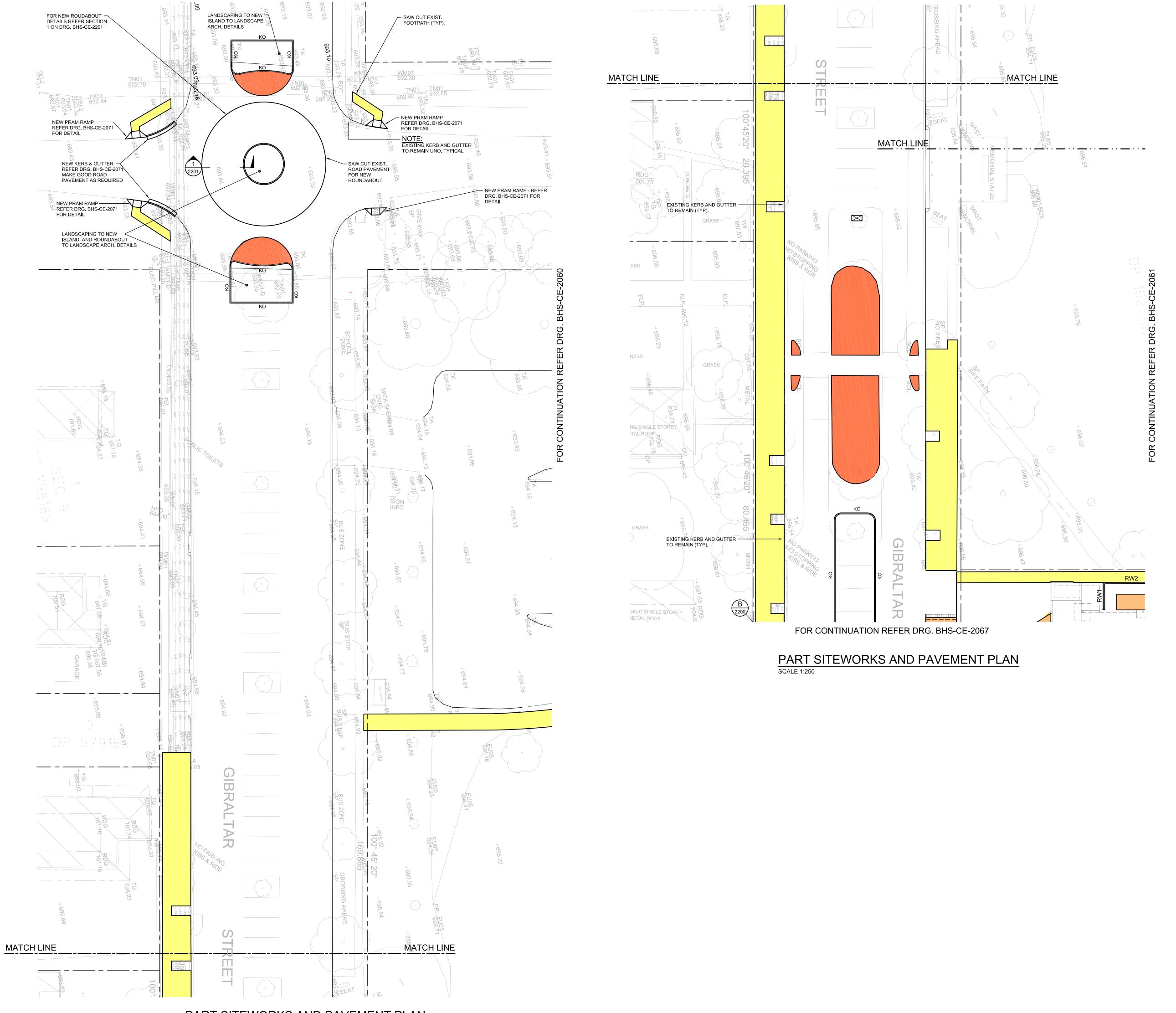


LANDSCAPE WALL TYPE W5



SCALE 1:10 MASS CONCRETE -100mm COMPACTED FINE CRUSHED ROCK (DGB20) OR

TYP. COLOURBOND RAISED GARDEN BED



PART SITEWORKS AND PAVEMENT PLAN SCALE 1:250

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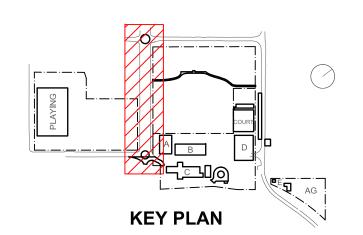
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Mechanical, Electrical, Hydraulic, ESD

Norman Disney & Young

T+ 61 2 9928 6800

Landscape Architecture Context T+ 61 2 8244 8900 Acoustic Acoustic Logic T+ 61 2 8339 8000



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Rev Date Description

Drawing Title SITEWORKS & PAVEMENT PLAN

SHEET 6

Designed Reviewed Drawn Sheet Scale Job No. Status Date 5555 SSDA OCT '21 1:250 Drawing No.

BHS-CE-2060

NOT FOR CONSTRUCTION

PAVEMENT LEGEND

PAVEMENT TYPE 1 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 2 - REFER

PAVEMENT TYPE 3 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 4 - REFER LANDSCAPE ARCHITECT'S

DRAWINGS FOR DETAILS

PAVEMENT TYPE 5 - REFER

PAVEMENT TYPE 6 - REFER

PAVEMENT TYPE 7 - REFER DRG. BHS-CE-2091 FOR DETAILS

DENOTES EXISTING PAVEMENT

DENOTES RECYCLED BRICK PAVING DRG. BHS-CE-2091 FOR DETAILS

TO REMAIN

ALL ROAD SIGNAGE AND LINEMARKING

TO TRAFFIC ENGINEER'S

NOTE:

DETAIL (TYP).

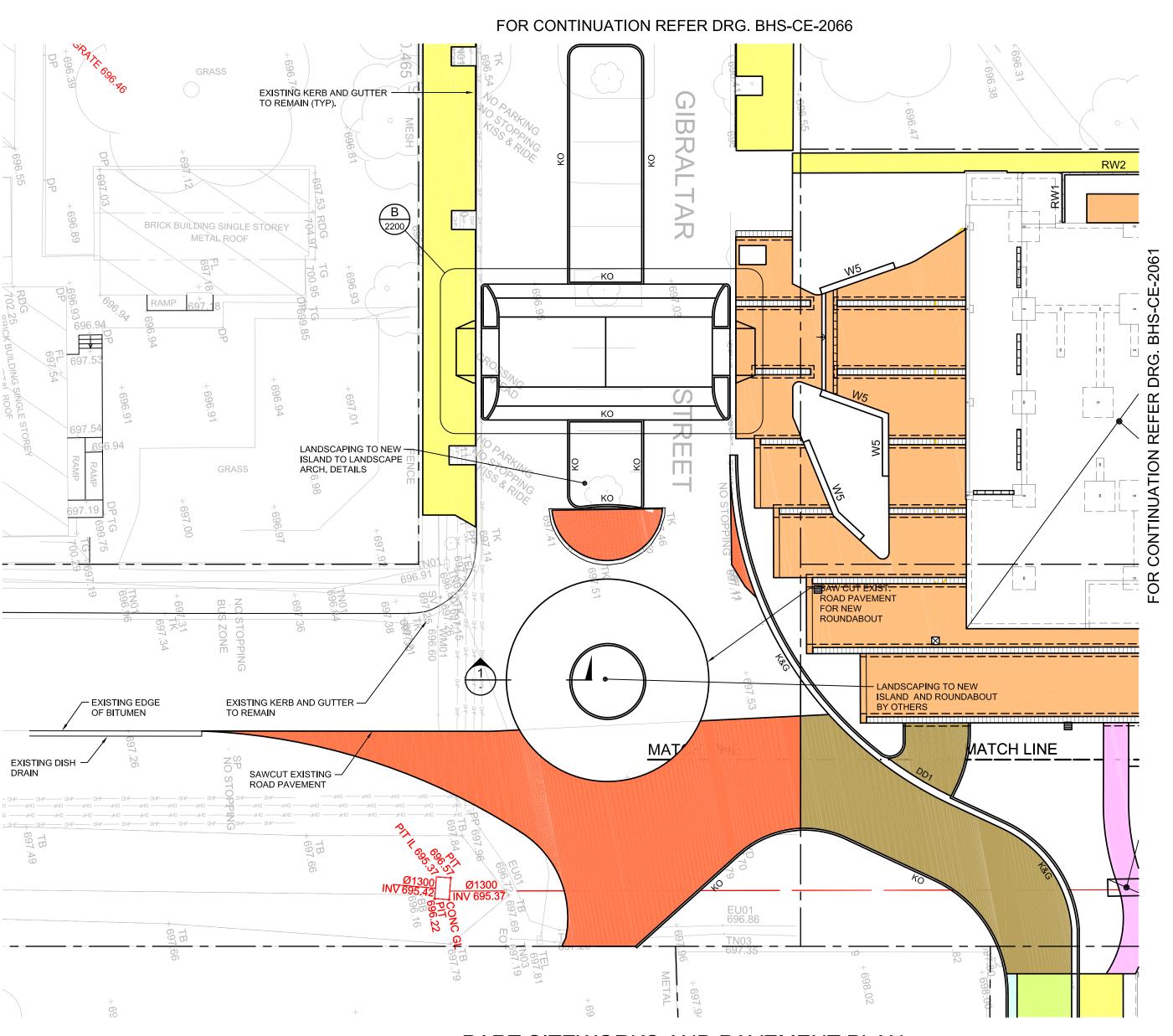
DRG. BHS-CE-2091 FOR DETAILS

DRG. BHS-CE-2091 FOR DETAILS

DRG. BHS-CE-2091 FOR DETAILS







PART SITEWORKS AND PAVEMENT PLAN SCALE 1:250

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

BUILDER

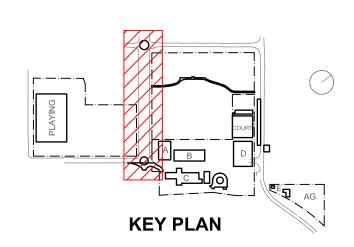
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MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title SITEWORKS & PAVEMENT PLAN SHEET 7

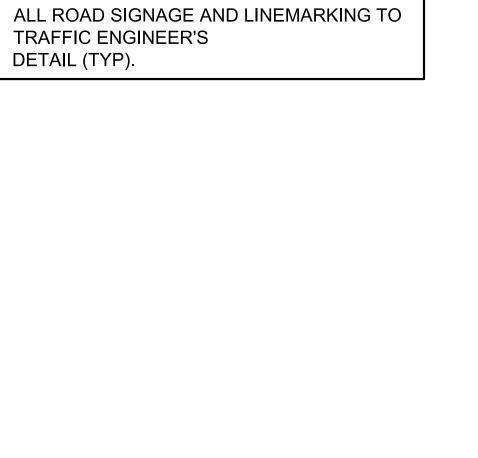
Designed Reviewed Drawn Sheet Scale Job No. Status Date 5555 SSDA OCT '21 1:250 Drawing No.

BHS-CE-2067

NOT FOR CONSTRUCTION







PAVEMENT LEGEND

PAVEMENT TYPE 1 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 2 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 3 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 4 - REFER LANDSCAPE ARCHITECT'S

DRAWINGS FOR DETAILS

PAVEMENT TYPE 5 - REFER DRG. BHS-CE-2091 FOR DETAILS

PAVEMENT TYPE 6 - REFER DRG. BHS-CE-2091 FOR DETAILS

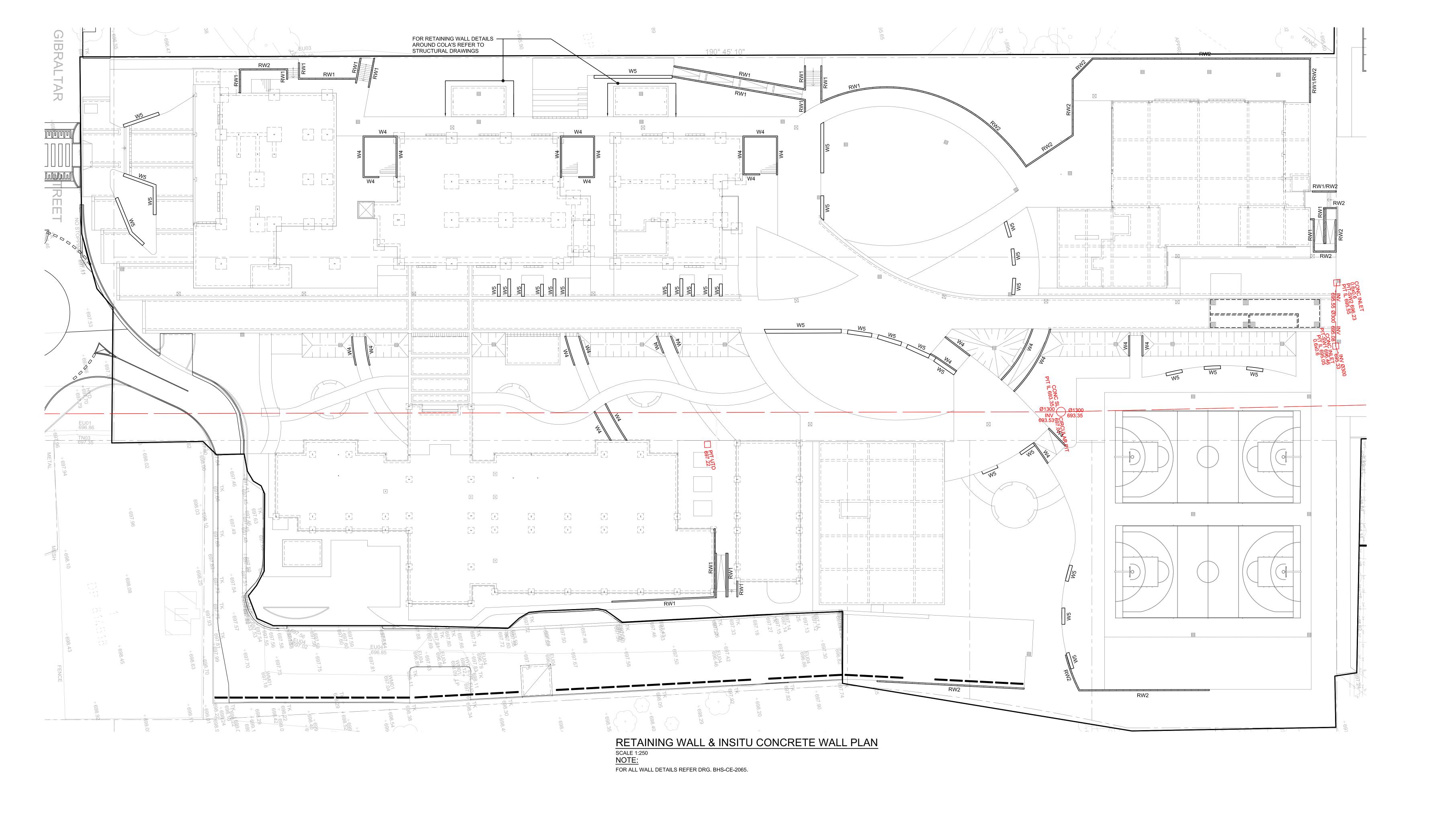
PAVEMENT TYPE 7 - REFER DRG. BHS-CE-2091 FOR DETAILS

DENOTES EXISTING PAVEMENT

DENOTES RECYCLED BRICK PAVING DRG. BHS-CE-2091 FOR DETAILS

TO REMAIN

NOTE:



BUILDER

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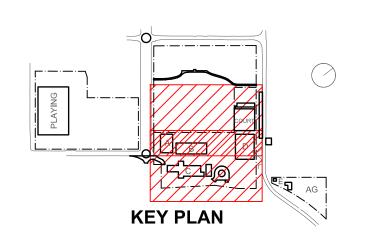
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New High School in Bungendore

MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title RETAINING WALL AND INSITU CONCRETE WALL PLAN

Reviewed Drawn Sheet Designed Scale Job No. Status Date 5555 SSDA OCT '21 1:250

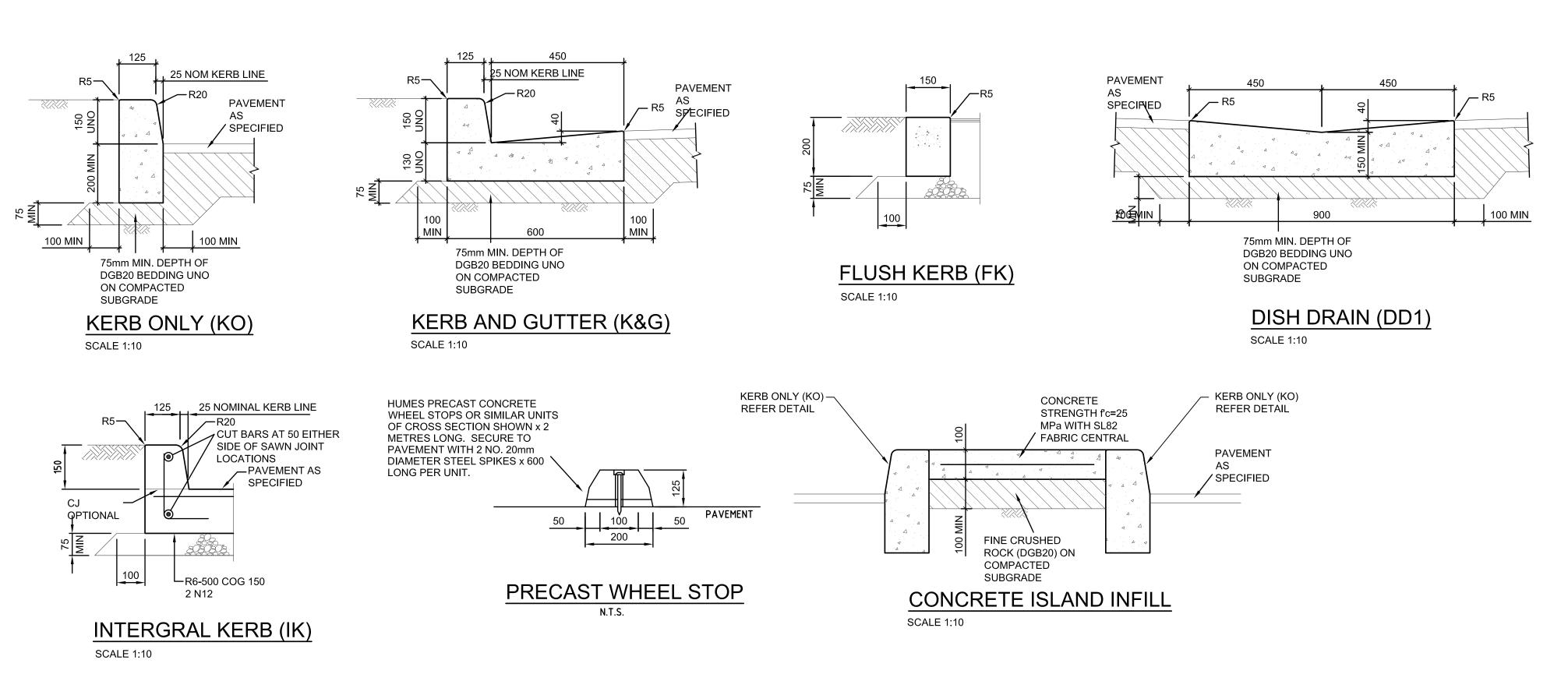
Drawing No.

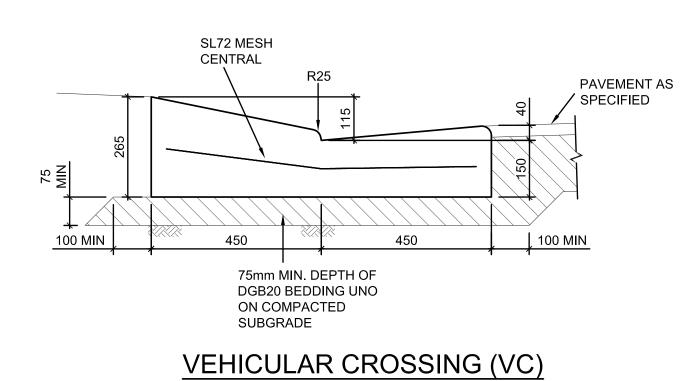
BHS-CE-2068

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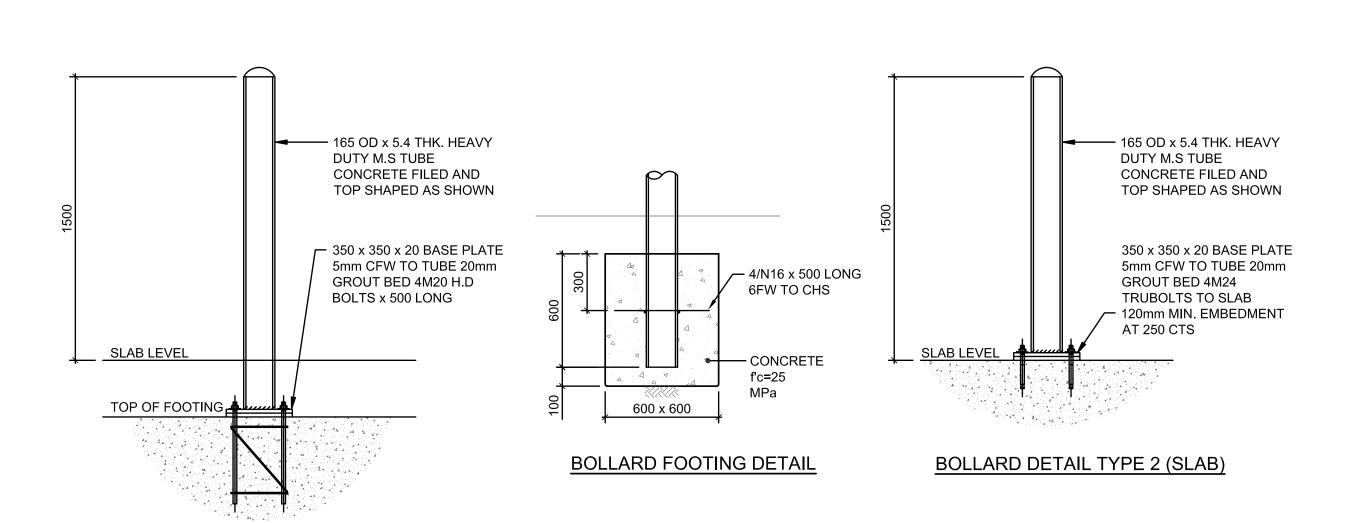




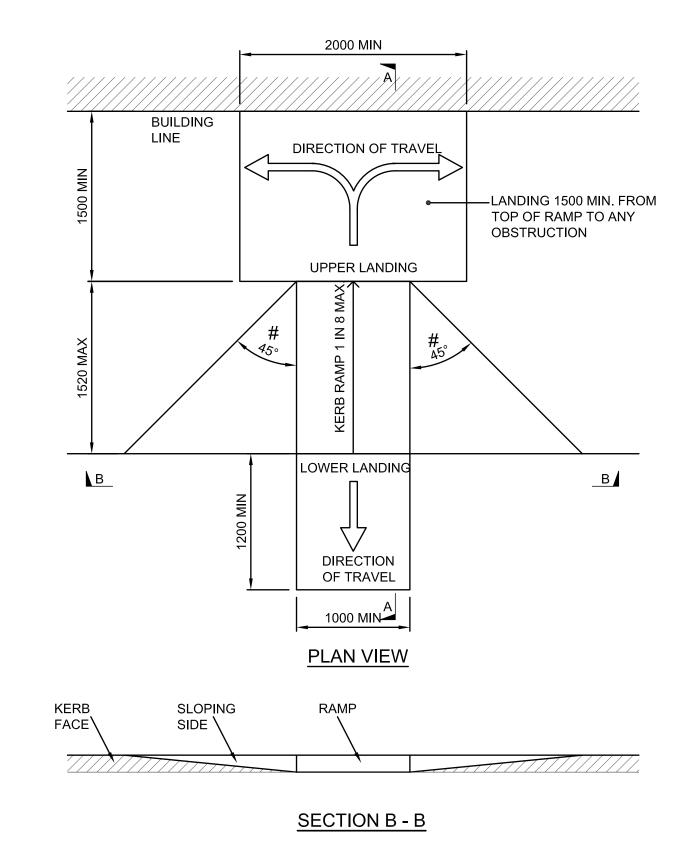


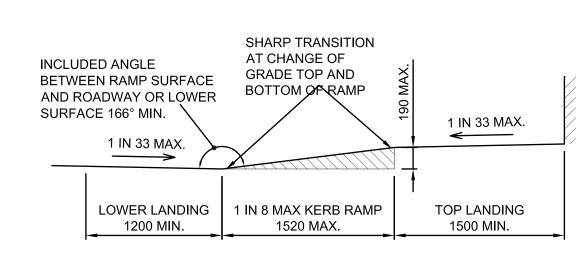
SCALE 1:10

FOR WOMBAT CROSSING DETAILS REFER DRG. BHS-CE-2200



BOLLARD DETAIL TYPE 1 (FOOTING) TYPICAL BOLLARD DETAILS SCALE 1:20





SECTION A - A

PRAM RAMP DETAIL

BOTTOM, 40mm COVER

J 20.10.22 MINOR REVISIONS FOR RTS DD ISSUE

NOTES

1. THE RAMP AND SLOPING SIDES SHOULD BE SLIP RESISITANT AND OF A COLOUR THAT CONTRASTS WITH THE ADJOINING SURFACES.

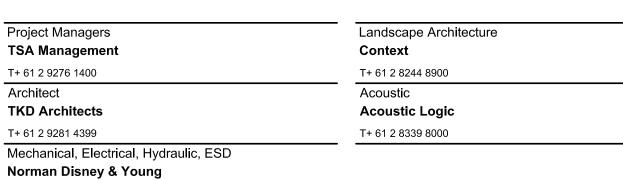
- 2. A TACTILE INDICATOR, AS SPECIFIED IN AS1428.4 SHOULD BE INTEGRATED AND EXTENDED FOR 200mm AWAY FROM THE RAMP AT THE SHARP TRANSITION AT THE TOP AND BOTTOM OF THE RAMP. THIS COULD TAKE THE FORM OF ROUGH BROOMING OR SIMILAR TEXTURE WHICH WILL AID ORIENTATION FOR PEOPLE WITH A VISUAL IMPAIRMENT.
- 3. # WHERE CONSTRAINTS DICTATE THE ANGLE MAY BE REDUCED TO 30° IN ACCORDANCE WITH RMS STANDARD DRAWING No. R0300-11.
- 4. MINIMUM 125mm THICKNESS OF CONCRETE REINFORCED WITH SL82 MESH

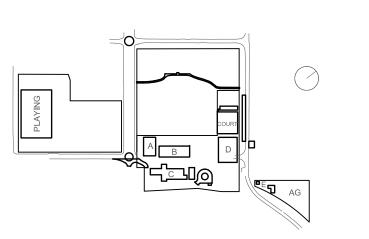


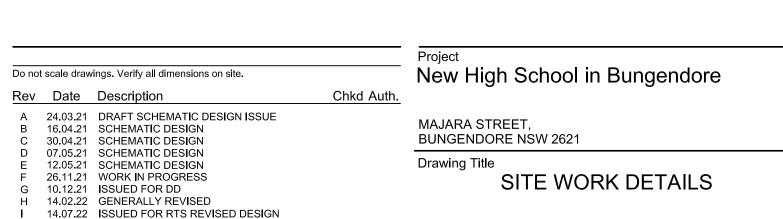
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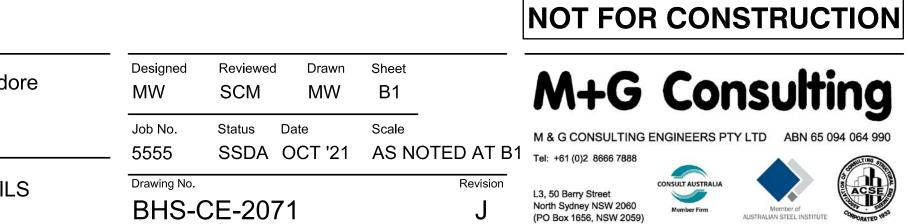


T+ 61 2 9928 6800





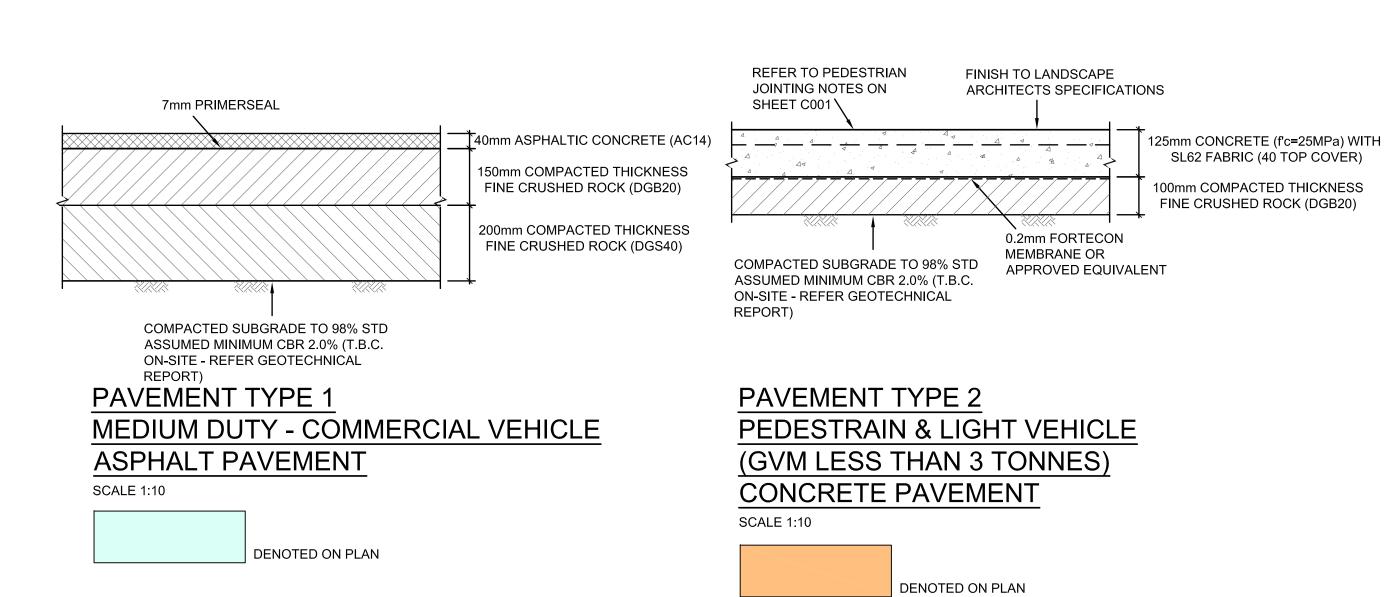


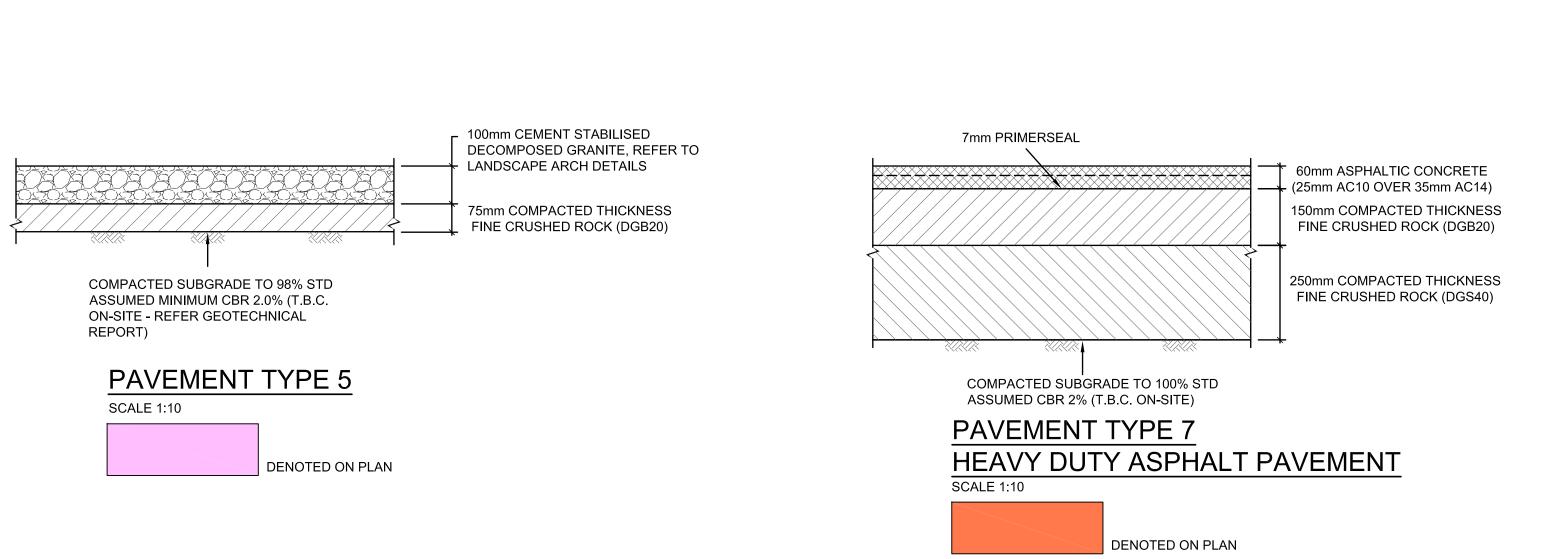


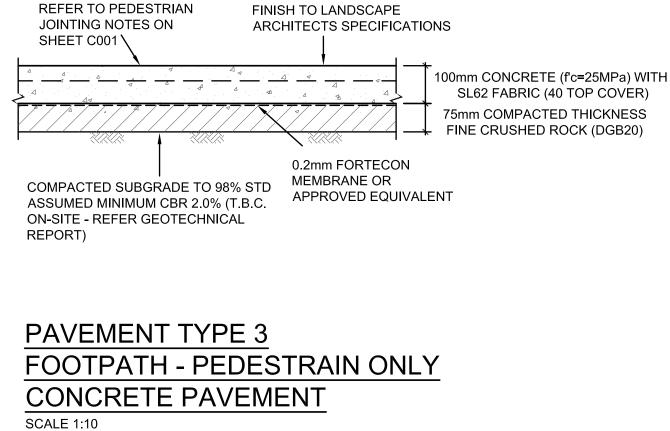




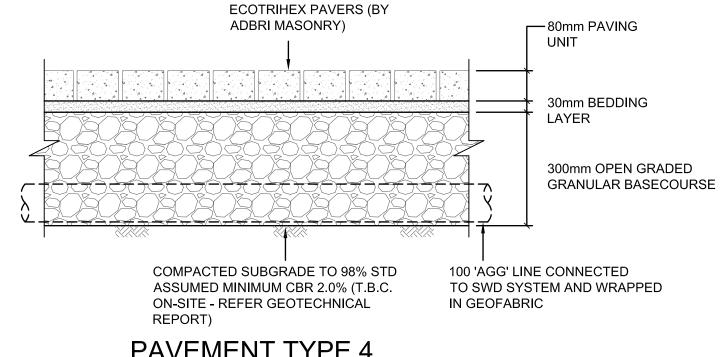








DENOTED ON PLAN



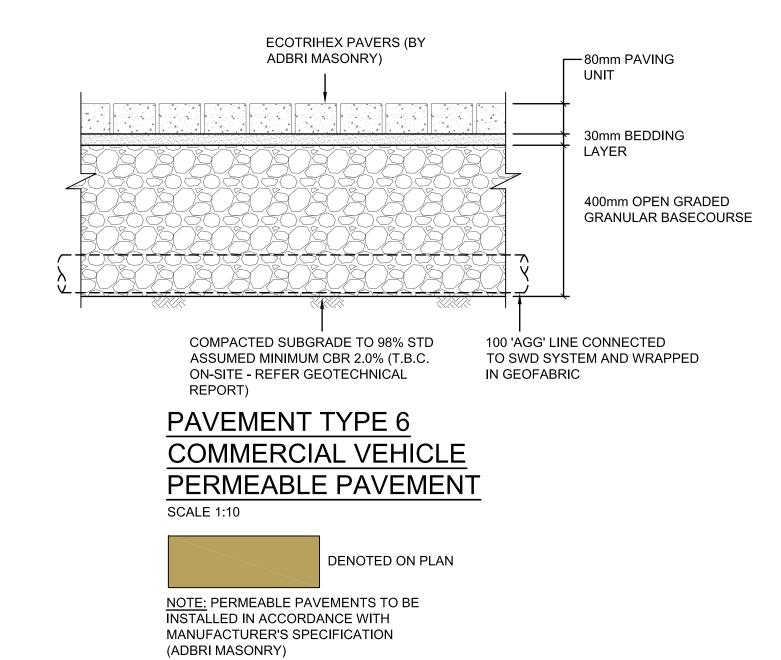
PAVEMENT TYPE 4 FOOTPATH - PEDESTRIAN ONLY PERMEABLE PAVEMENT

DENOTED ON PLAN

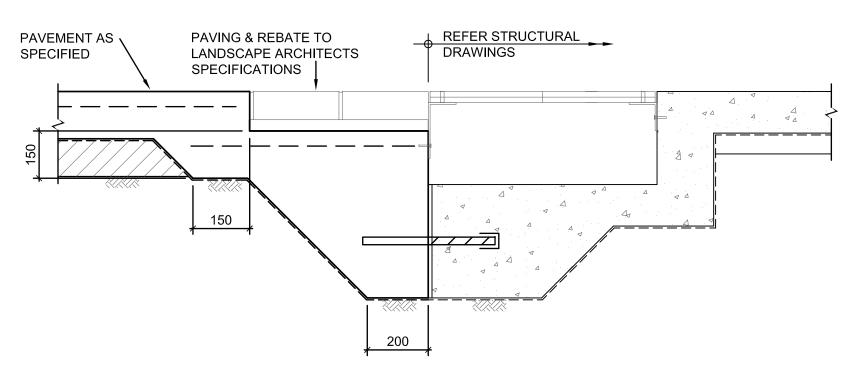
SCALE 1:10

NOTE: PERMEABLE PAVEMENTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION (ADBRI MASONRY)

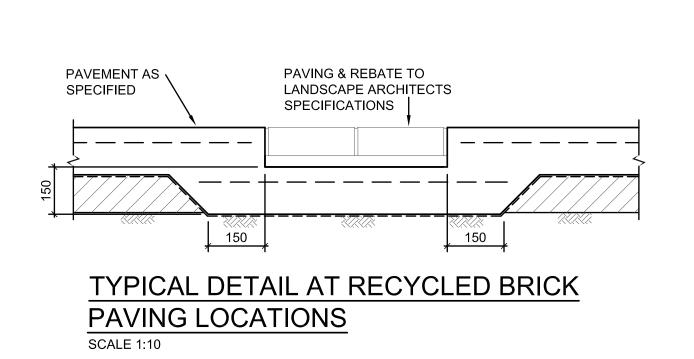
PAVEMENT TYPE 4 GRADING REQUIREMENTS (TO ADBRI MASONRY'S SPECIFICATION)								
SIEVE SIZE (mm)	OPEN GRADED GRANULAR BASECOURSE	BEDDING LAYER AND JOINTING MATERIAL (PERCENTAGE PASSING)						
26.5	100	-						
19	95-100	-						
13.2	70-93	-						
9.5	55-85	100						
4.75	20-75	85-100						
2.36	10-50	10-40						
1.18	0-25	0-10						
0.6	0-12	-						
0.3	0-8	0.3						
0.15	0-6	-						
0.075	0-5	-						

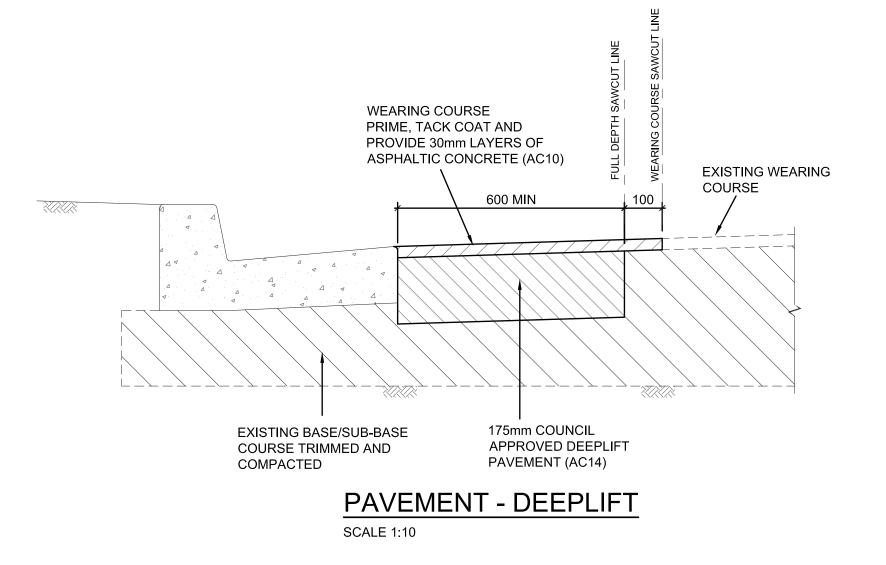


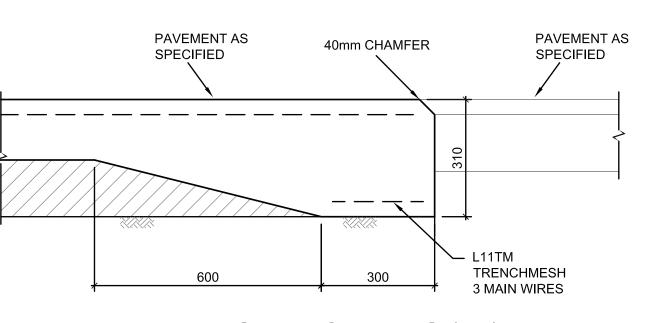
PAVEME	NT TYPE 6 GRADING F (TO ADBRI MASONRY'S SPECII	
SIEVE SIZE (mm)	OPEN GRADED GRANULAR BASECOURSE	BEDDING LAYER AND JOINTING MATERIAL (PERCENTAGE PASSING)
26.5	100	-
19	95-100	-
13.2	70-93	-
9.5	55-85	100
4.75	20-75	85-100
2.36	10-50	10-40
1.18	0-25	0-10
0.6	0-12	-
0.3	0-8	0.3
0.15	0-6	-
0.075	0-5	-









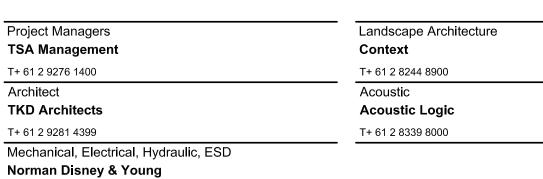


EDGE THICKENING (ET)

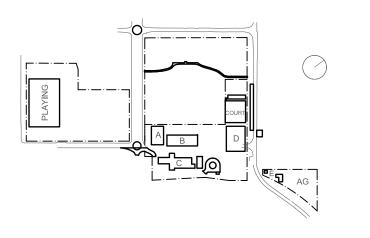
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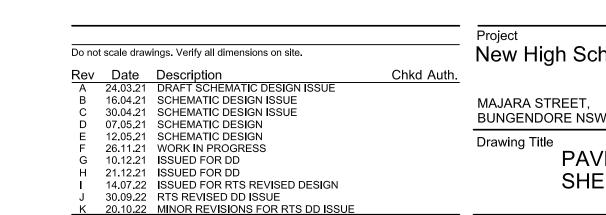


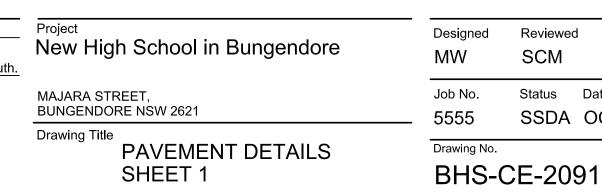


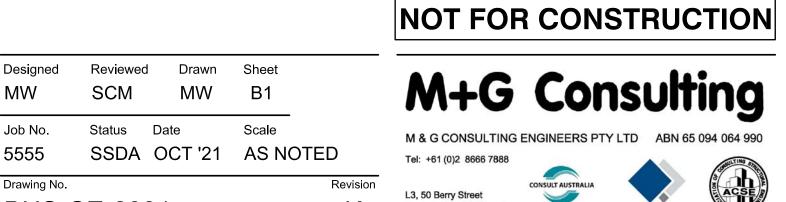


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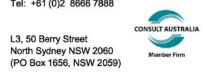












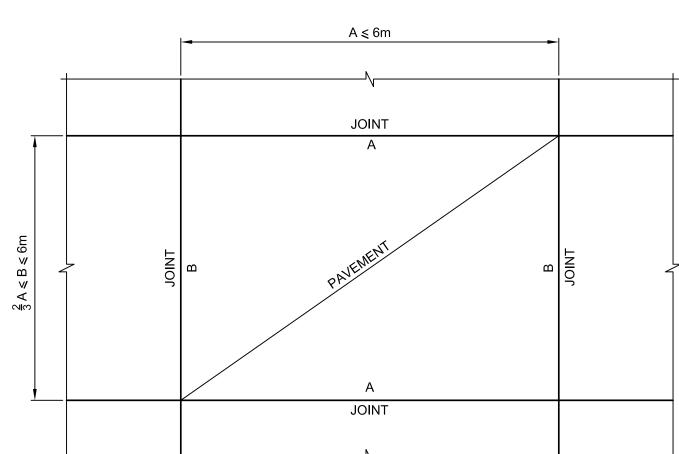


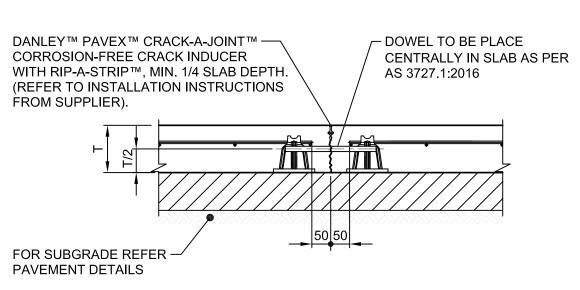


JOINT SPACING REQUIREMENTS FOR PAVEMENT TYPES (UNO) NOTE: ALL JOINTING LAYOUTS TO BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION AND PLACEMENT OF CONCRETE. PEDESTRIAN LOADINGS: • PROVIDE WEAKENED PLANE JOINTS AT 6m C/C. MAX. AT AN ASPECT RATIO OF 1:1.5 MAX. PROVIDE APPROVED DOWEL JOINTS AT 18m C/C. OR AFTER EVERY THIRD WEAKENED PLANE JOINT (WHICHEVER IS LESSER). FREQUENT/INFREQUENT VEHICLE LOADINGS:

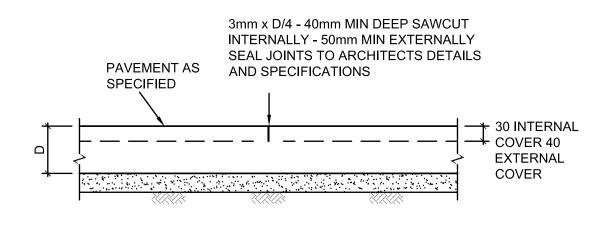
• PROVIDE APPROVED DOWEL JOINTS AT 6m C/C. MAX.

AT AN ASPECT RATIO OF 1:1.5 MAX.





WEAKENED PLANE JOINT (W.P.J.) DETAIL SCALE: 1:10

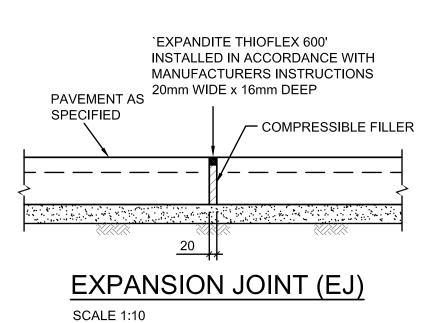


SAWCUT JOINT (SJ)

SCALE 1:10

SLAB MUST BE SAWCUT AS SOON AS PRACTICABLE AFTER FINISHING OF THE SLAB WITHOUT CAUSING DAMAGE TO THE SAWCUT EDGES -USUALLY 12-24 HOURS.

- SLABS MUST NOT BE POURED IF TEMPERATURE EXCEEDS 32° HOT WEATHER PLACING (25° AND OVER) MAY REQUIRE SLABS TO BE SAWCUT AS SOON AS 5-6 HOURS AFTER POURING.
- ANY SLAB BAY IN WHICH SHRINKAGE CRACKS OCCUR DUE TO LATE SAWCUTTING MUST BE REMOVED AND REPLACED BY THE BUILDER/CONTRACTOR.



N12 DEFORMED BAR

INDUCED CRACK

LONGITUDINAL WARPING JOINT (LWJ)

- 40mm DEEP SAWCUT

SEALANT RESERVOIR

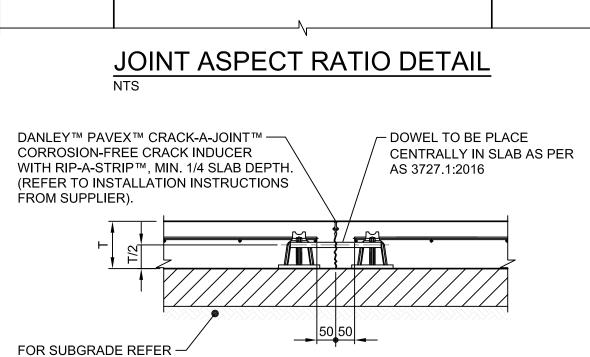
AND SEALANT WITH INDUCED CRACK

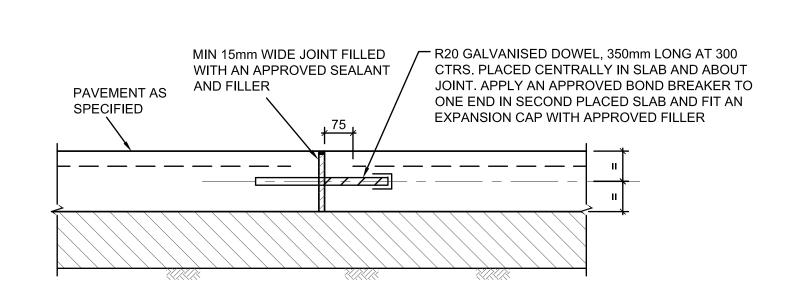
PAVEMENT AS AT 800 CTRS x 1000

SCALE 1:10

SPECIFIED

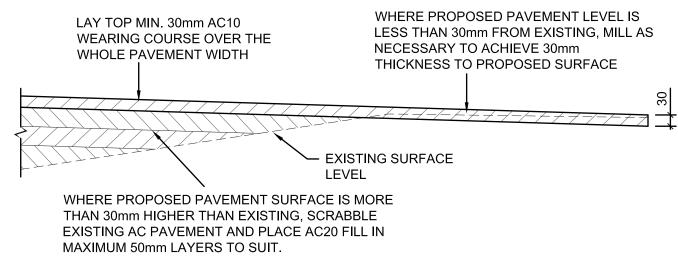
LONG



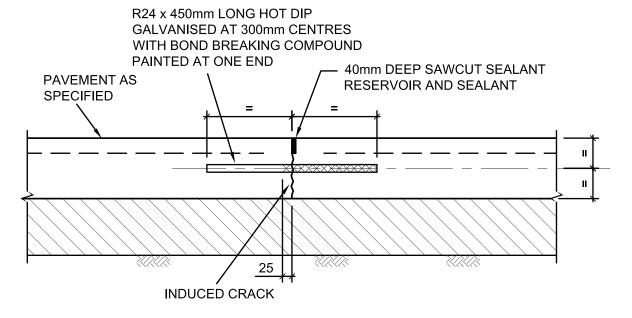


DOWELLED EXPANSION JOINT (DEJ)

SCALE 1:10



MILL RE-SHEET/SCRABBLE AND FILL DETAIL SCALE 1:10



TRANSVERSE CONTRACTION JOINT (TCJ) SCALE 1:10

Landscape Architecture

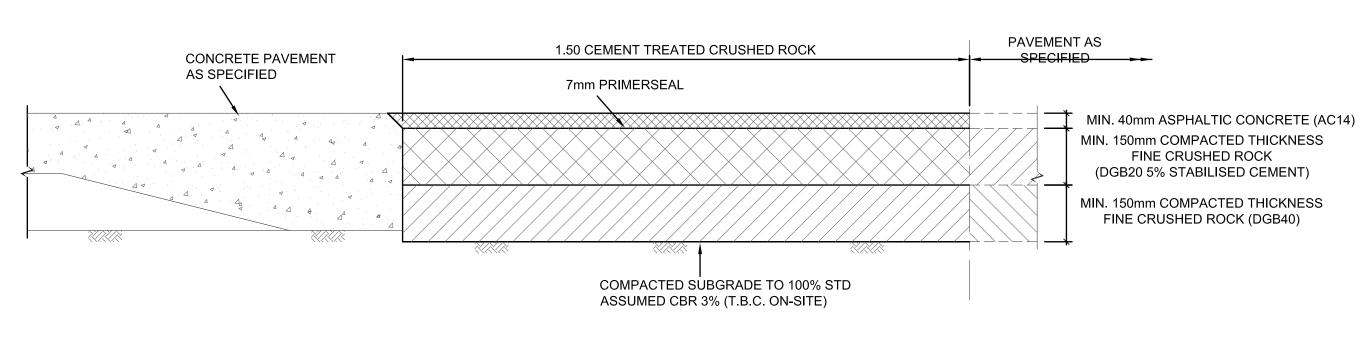
Context

Acoustic

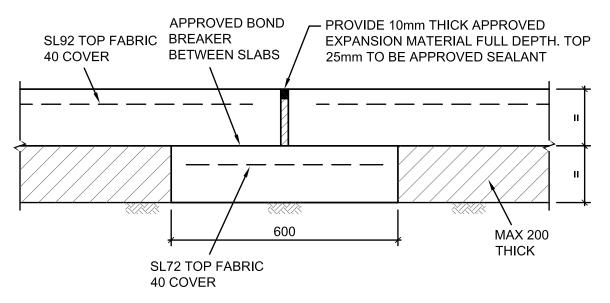
T+ 61 2 8244 8900

Acoustic Logic

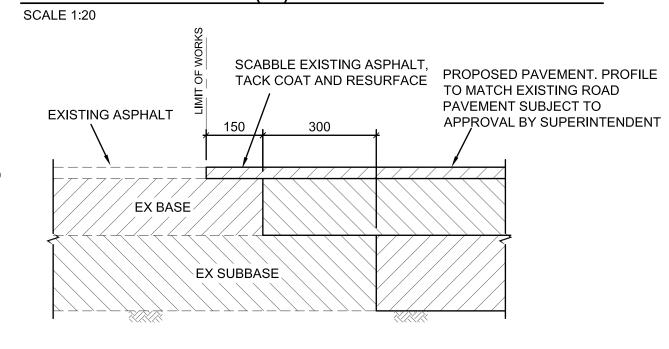
T+ 61 2 8339 8000



CONCRETE CONNECTION TO ASPHALT PAVEMENT SCALE 1:10

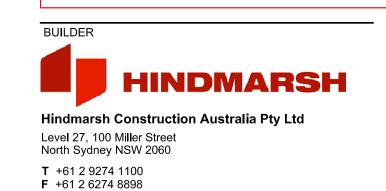


ISOLATION JOINT (IJ) WITH SUBGRADE BEAM



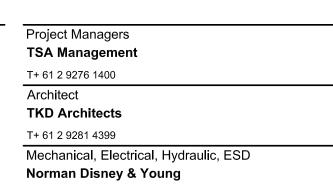
ASPHALT CONNECTION TO EXISTING PAVEMENT SCALE 1:10

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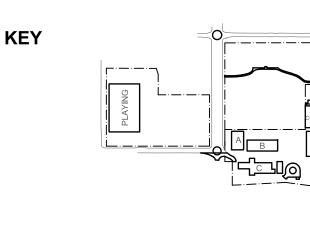


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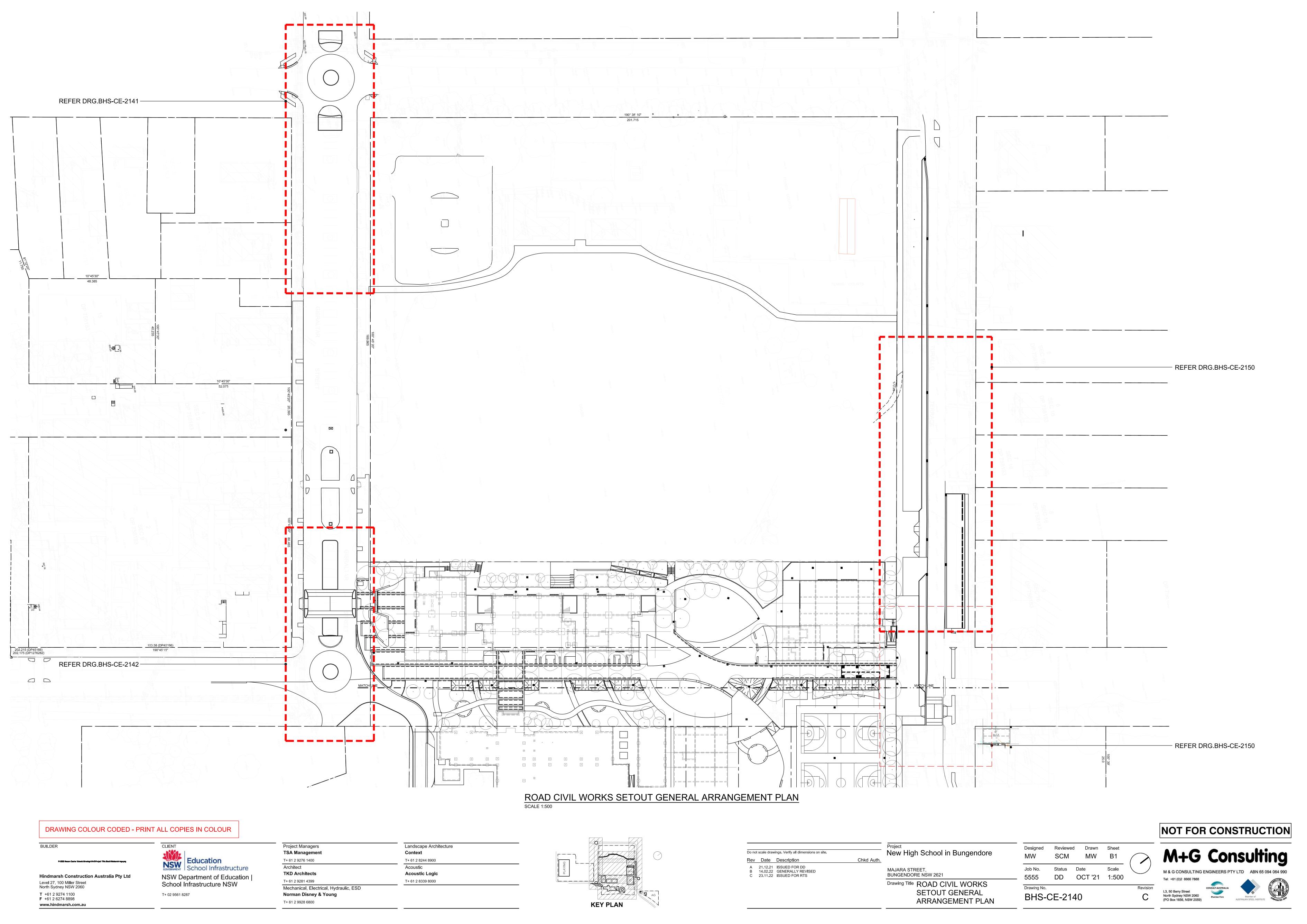
,			,	Project
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Rev	Date	Description	Chkd Auth.	
Α	20.10.22	RTS REVISED DD ISSUE		MAJARA BUNGEN
				Drawing ⁻

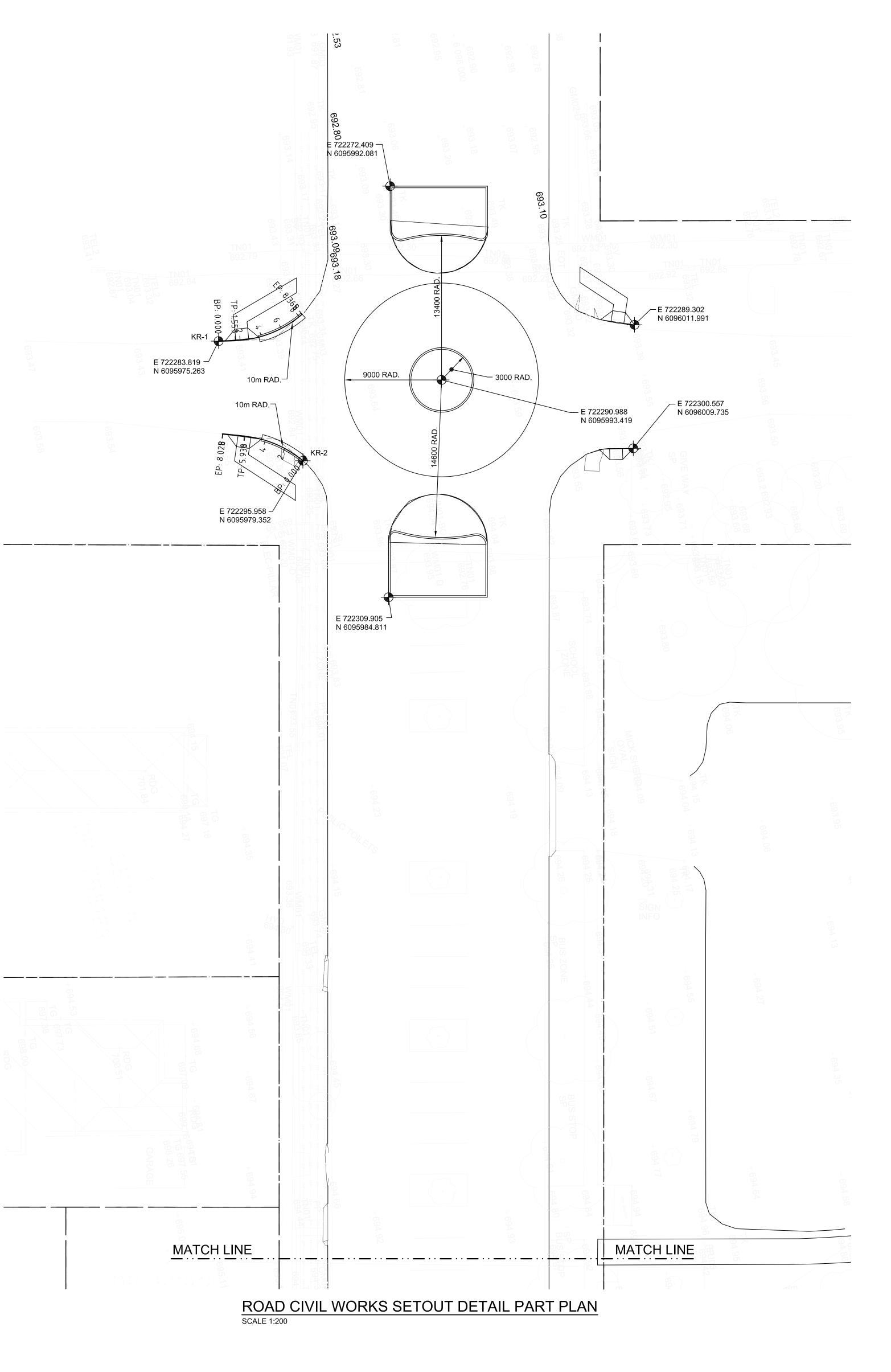
Project	
New	High School in Bungendore
	RA STREET, ENDORE NSW 2621
Drawin	
	PAVEMENT DETAILS

SHEET 2

Designed	Reviewed	Drawn	Sheet	
MW	SCM	MW	B1	
Job No.	Status D	ate	Scale	
5555	SSDA (OCT '21	AS NOT	ED
Drawing No.				Revision
BHS-C	E-209	2		Α







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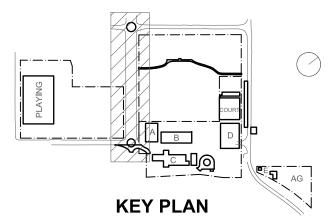
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Norman Disney & Young

T+ 61 2 9928 6800

Mechanical, Electrical, Hydraulic, ESD

Landscape Architecture Context T+ 61 2 8244 8900 Acoustic Acoustic Logic T+ 61 2 8339 8000



New High School in Bungendore

Rev Date Description Chkd Auth. A 21.12.21 ISSUED FOR DD
B 14.02.22 GENERALLY REVISED
C 23.11.22 ISSUED FOR RTS MAJARA STREET, BUNGENDORE NSW 2621

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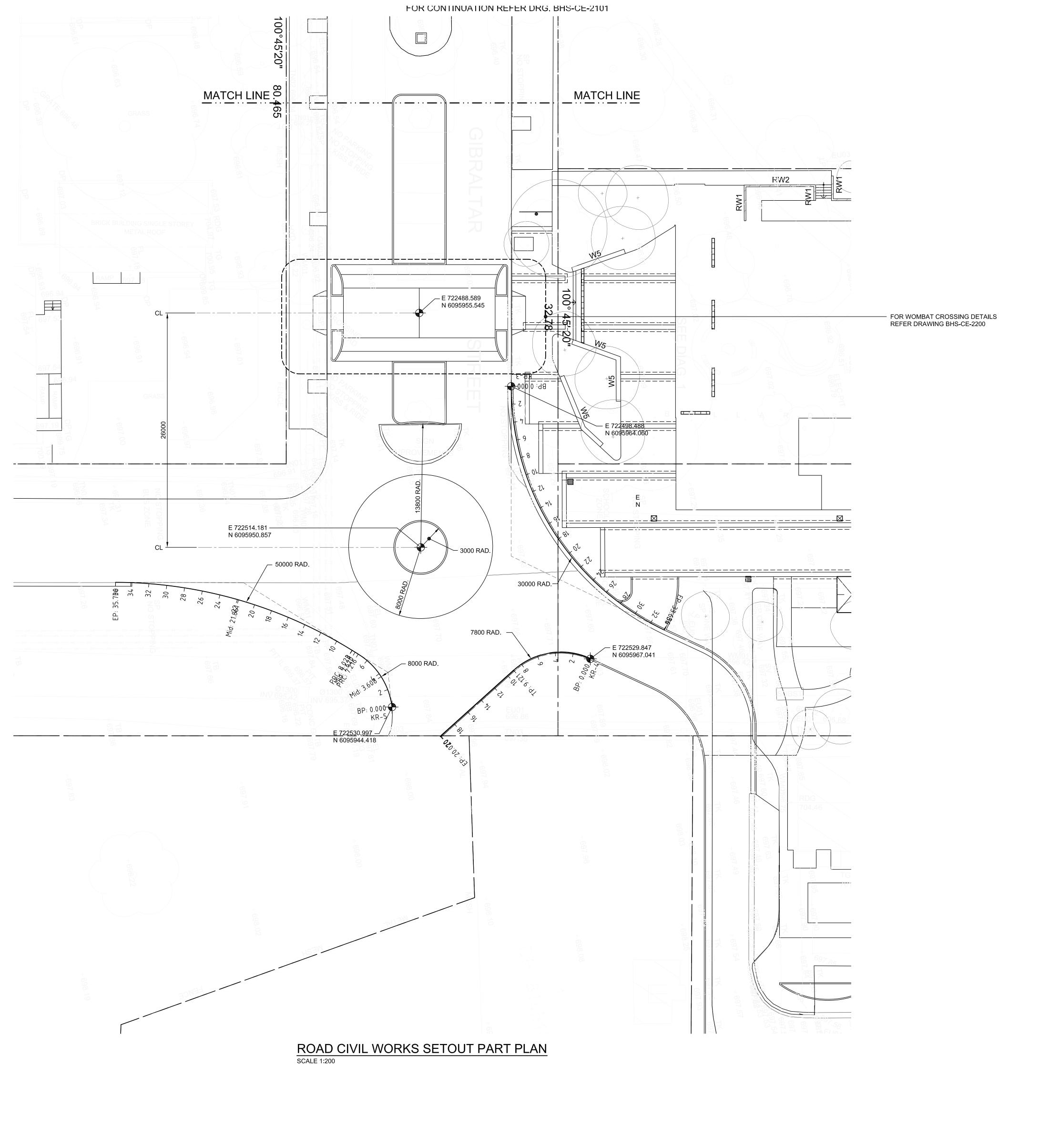
Job No. 5555 Drawing Title ROAD CIVIL WORKS Drawing No. SETOUT DETAIL PLAN BHS-CE-2141

SHEET 1

Designed Reviewed Drawn Sheet Scale Status Date DD OCT '21 1:200



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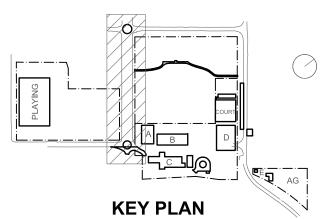
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T+ 61 2 9928 6800

Landscape Architecture Context T+ 61 2 8244 8900 Acoustic Acoustic Logic T+ 61 2 8339 8000 Mechanical, Electrical, Hydraulic, ESD Norman Disney & Young



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C 23.11.22 ISSUED FOR RTS

Project
New High School in Bungendore MAJARA STREET, BUNGENDORE NSW 2621

Drawing Title ROAD CIVIL WORKS

SHEET 2

SETOUT PART PLAN

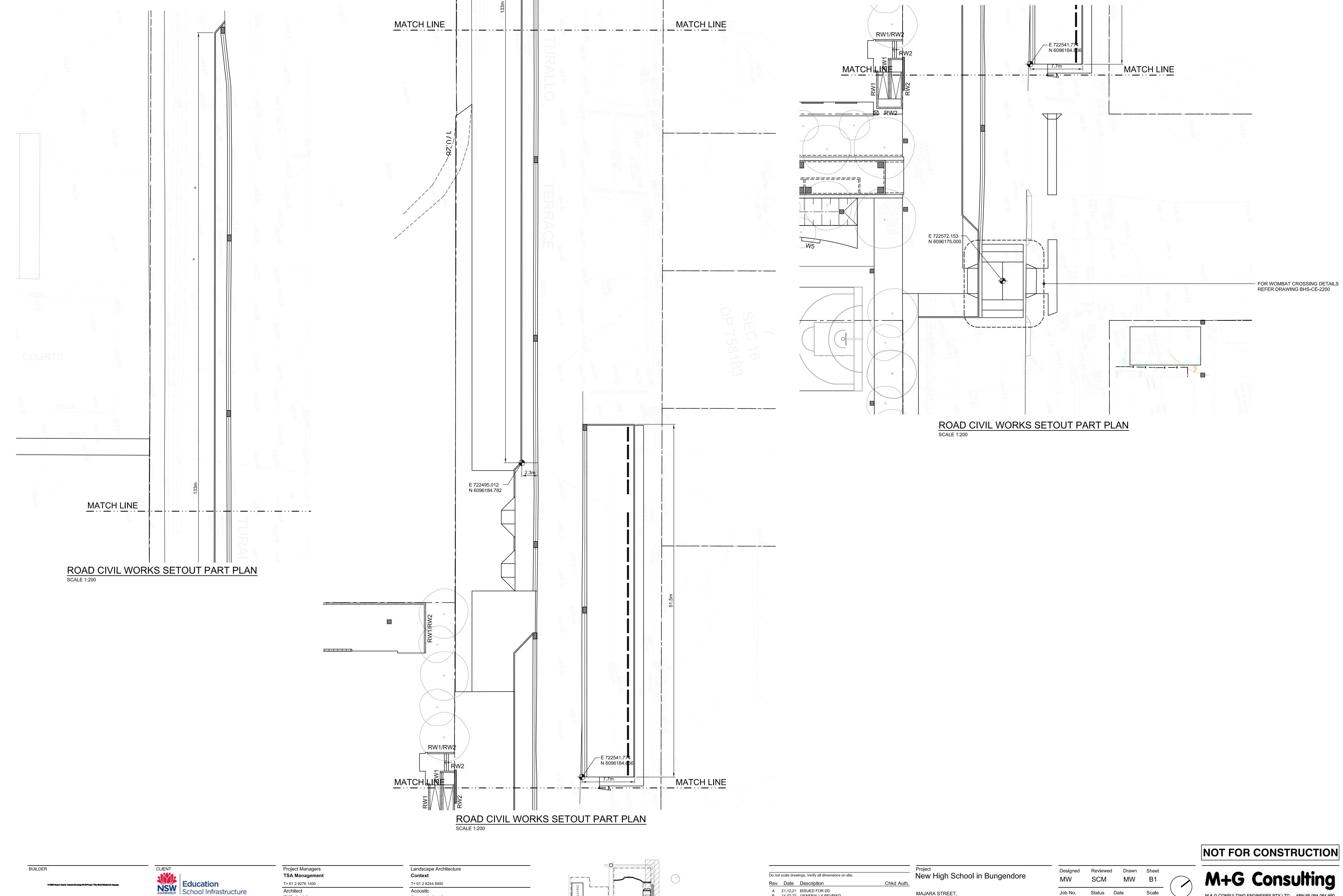
Designed Reviewed Drawn Sheet Scale Job No. Status Date 5555 DD OCT '21 1:200 Drawing No. BHS-CE-2142

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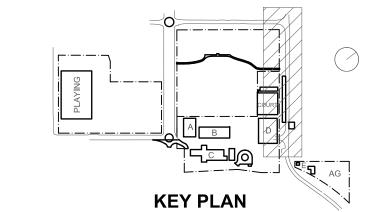
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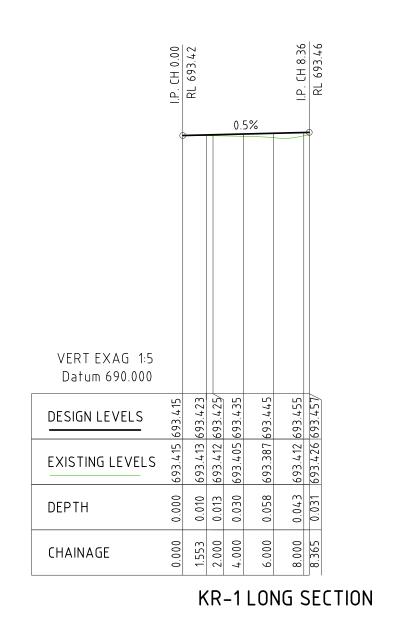
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C 23.11.22 ISSUED FOR RTS

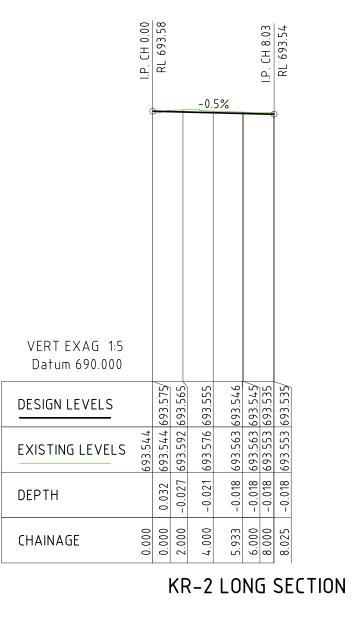
MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title ROAD CIVIL WORKS SETOUT PART PLAN

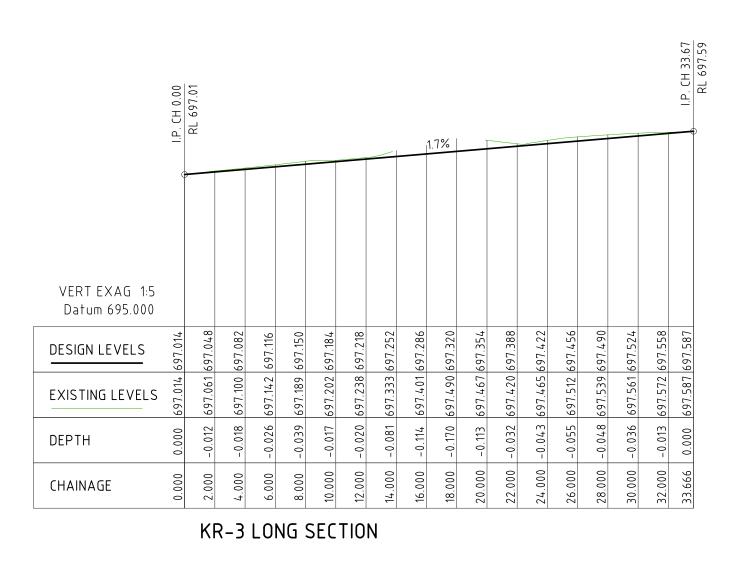
SHEET 3

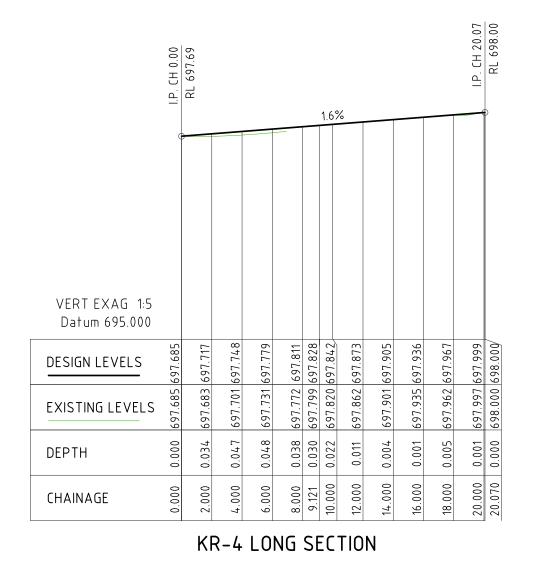
Scale Status Date 5555 DD OCT '21 1:200 Drawing No. BHS-CE-2150

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												-1.4	.%								
VERT EXAG 1:5 Datum 695.000																					
DESIGN LEVELS	697.788	697.761	697.733	697.706	689.769	697.678	819.169	059.769	697.623	697.595	697.567	94.540	697.512	697.485	697.457	697.429	597.402	697.374	948.769	697.319	697.295
EXISTING LEVELS	697.788	771.769	697.726	697.757	697.786	187.781	.780	.773	697.726	697.660	697.596	697.547 697.540	697.508	697.472	687.439	807.769	697.380 697.402	697.354	697.329 697.346	697.307	697.295 697.295
DEPTH	0.000	0.013	0.007	-0.051	-0.097	-0.103	-0.103	-0.122	-0.104	-0.065	-0.029	-0.007	0.004	0.012	0.018	0.021	0.022	0.020	0.017	0.011	0.000
CHAINAGE	0.000	2.000	000.4	6.000	7.216	8.000	8.023	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	35.700
KR-5 LONG SECTION																					

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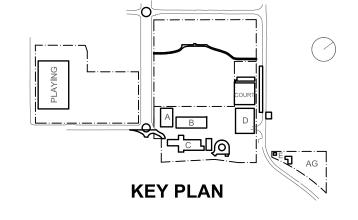
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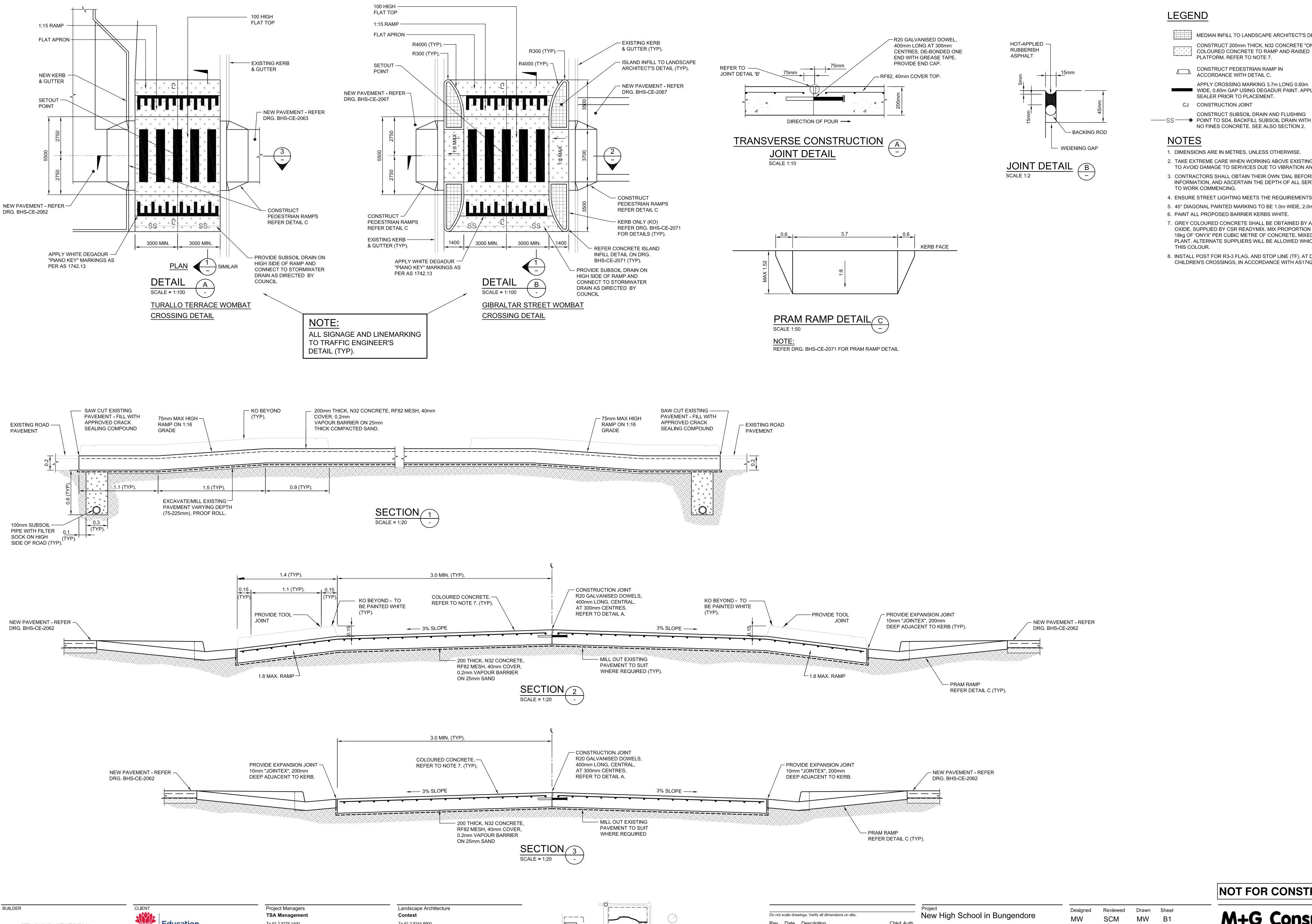
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B 14.02.22 GENERALLY REVISED
C 23.11.22 ISSUED FOR RTS MAJARA STREET, BUNGENDORE NSW 2621

Project
New High School in Bungendore Designed Reviewed Drawn Sheet MW B1 Job No. Status Date DD OCT '21 1:200 Drawing Title ROAD CIVIL WORKS Drawing No. LONGITUDINAL SECTIONS

BHS-CE-2155

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Chkd Auth. Rev Date Description A 21.12.21 ISSUED FOR DD 14.02.22 GENERALLY REVISED 14.07.22 ISSUED FOR RTS REVISED DESIGN 20.10.22 MINOR REVISIONS FOR RTS DD ISSUE E 23.11.22 ISSUED FOR RTS

MAJARA STREET, **BUNGENDORE NSW 2621** Drawing Title WOMBAT CROSSING PLAN AND DETAILS

Job No. Status Date SSDA OCT '21 1:500 5555 Drawing No. BHS-CE-2200

LEGEND

NOTES

MEDIAN INFILL TO LANDSCAPE ARCHITECT'S DETAIL.

COLOURED CONCRETE TO RAMP AND RAISED

APPLY CROSSING MARKING 3.7m LONG 0.60m

CONSTRUCT SUBSOIL DRAIN AND FLUSHING

NO FINES CONCRETE. SEE ALSO SECTION 2.

2. TAKE EXTREME CARE WHEN WORKING ABOVE EXISTING SERVICES

3. CONTRACTORS SHALL OBTAIN THEIR OWN 'DIAL BEFORE YOU DIG' INFORMATION, AND ASCERTAIN THE DEPTH OF ALL SERVICES, PRIOR

4. ENSURE STREET LIGHTING MEETS THE REQUIREMENTS OF AS 1158.4.

7. GREY COLOURED CONCRETE SHALL BE OBTAINED BY ADDING 'ONYX'

OXIDE, SUPPLIED BY CSR READYMIX. MIX PROPORTION SHALL BE

PLANT. ALTERNATE SUPPLIERS WILL BE ALLOWED WHICH MATCH

8. INSTALL POST FOR R3-3 FLAG, AND STOP LINE (TF), AT DESIGNATED

CHILDREN'S CROSSINGS. IN ACCORDANCE WITH AS1742.10

18kg OF 'ONYX' PER CUBIC METRE OF CONCRETE, MIXED AT BATCH

5. 45° DIAGONAL PAINTED MARKING TO BE 1.0m WIDE, 2.0m GAP.

TO AVOID DAMAGE TO SERVICES DUE TO VIBRATION AND LOADING.

WIDE, 0.60m GAP USING DEGADUR PAINT. APPLY

PLATFORM. REFER TO NOTE 7.

ACCORDANCE WITH DETAIL C.

SEALER PRIOR TO PLACEMENT.

1. DIMENSIONS ARE IN METRES, UNLESS OTHERWISE.

6. PAINT ALL PROPOSED BARRIER KERBS WHITE.

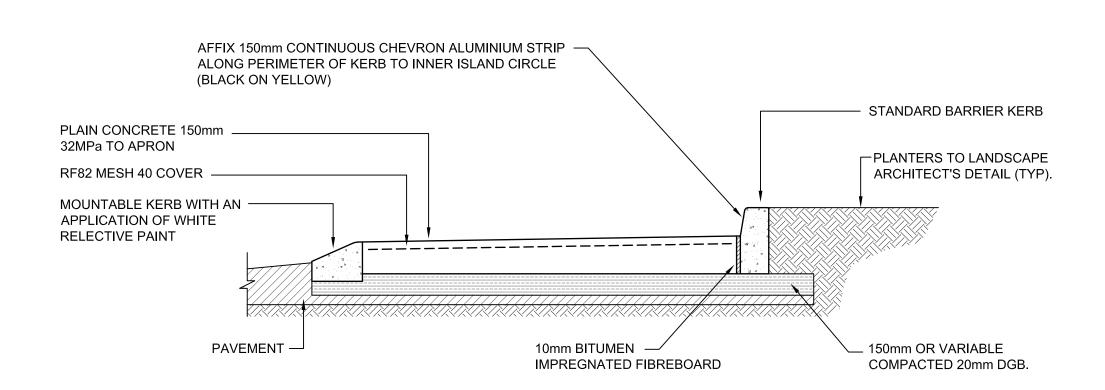
CONSTRUCT PEDESTRIAN RAMP IN

CJ CONSTRUCTION JOINT

TO WORK COMMENCING.

THIS COLOUR.

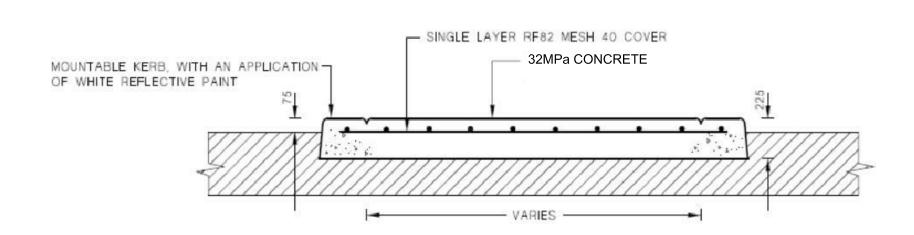
CONSTRUCT 200mm THICK, N32 CONCRETE "ONYX"



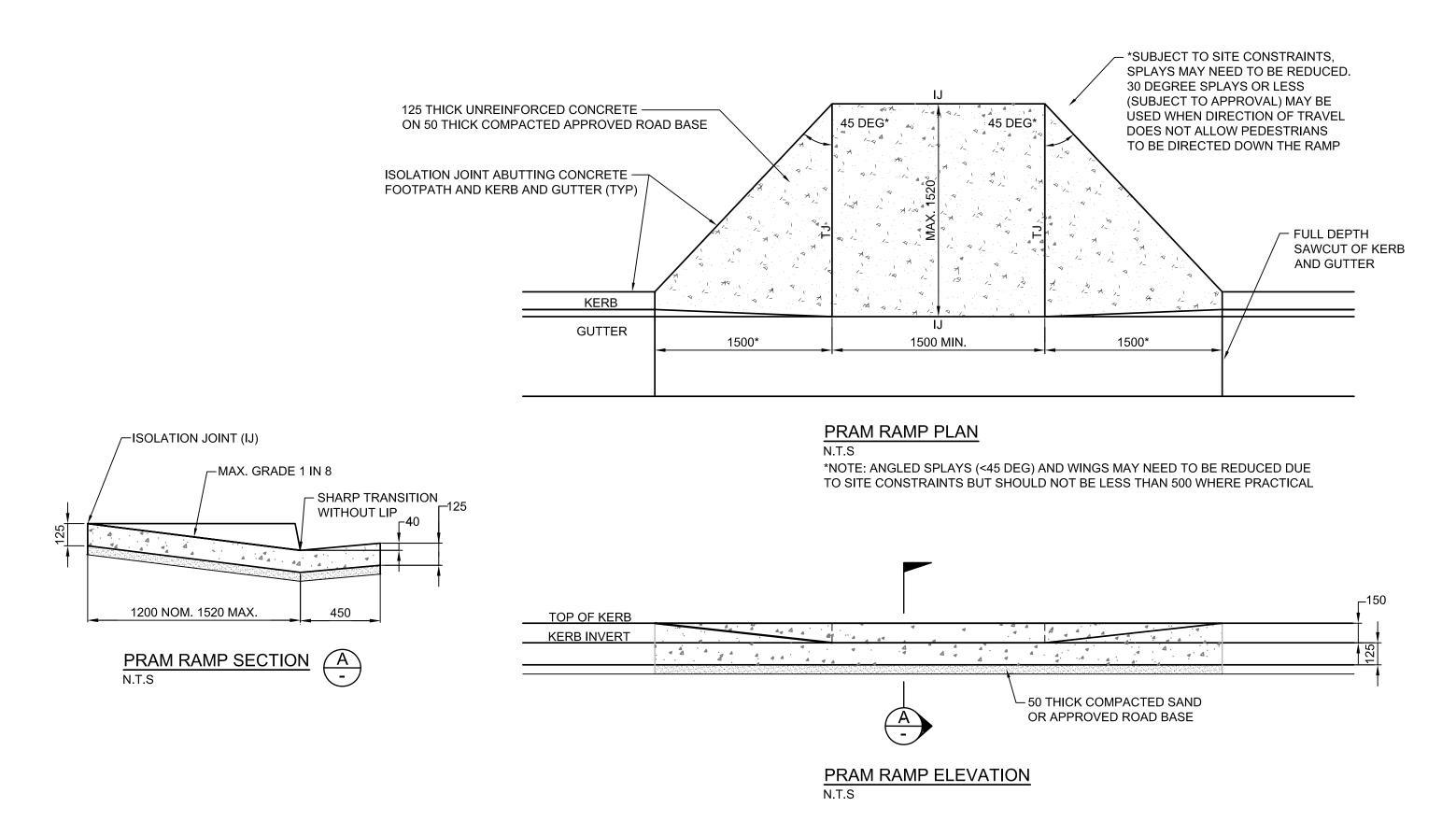
CENTRE ISLAND SECTION A-A NON TRAFFICABLE ANNULUS N.T.S



NOT TO SCALE



MOUNTABLE SPLITTER ISLAND SECTION B - B DETAIL



Norman Disney & Young

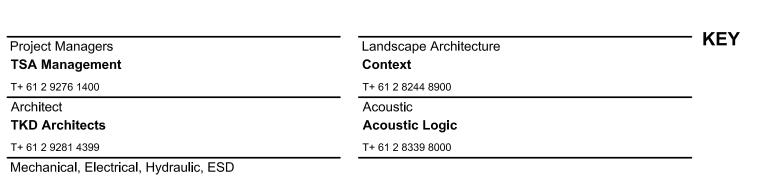
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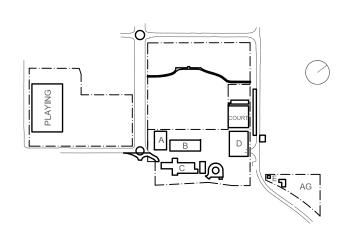
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Rev	Date	Description	Chkd Auth.	
Α	21.12.21	ISSUED FOR DD		
В		GENERALLY REVISED		MAJARA S BUNGENI
С	14.07.22	ISSUED FOR RTS REVISED DESIGN		DUNGENL

High School in Bungendore A STREET, NDORE NSW 2621

Drawing Title ROUNDABOUT AND

ROAD DETAILS

MISCELLANEOUS CIVIL

Designed	Reviewed	Drawn	Sheet	
MW	SCM	MW	B1	
Job No. 5555	Status D	^{ate} OCT '21	Scale NTS	

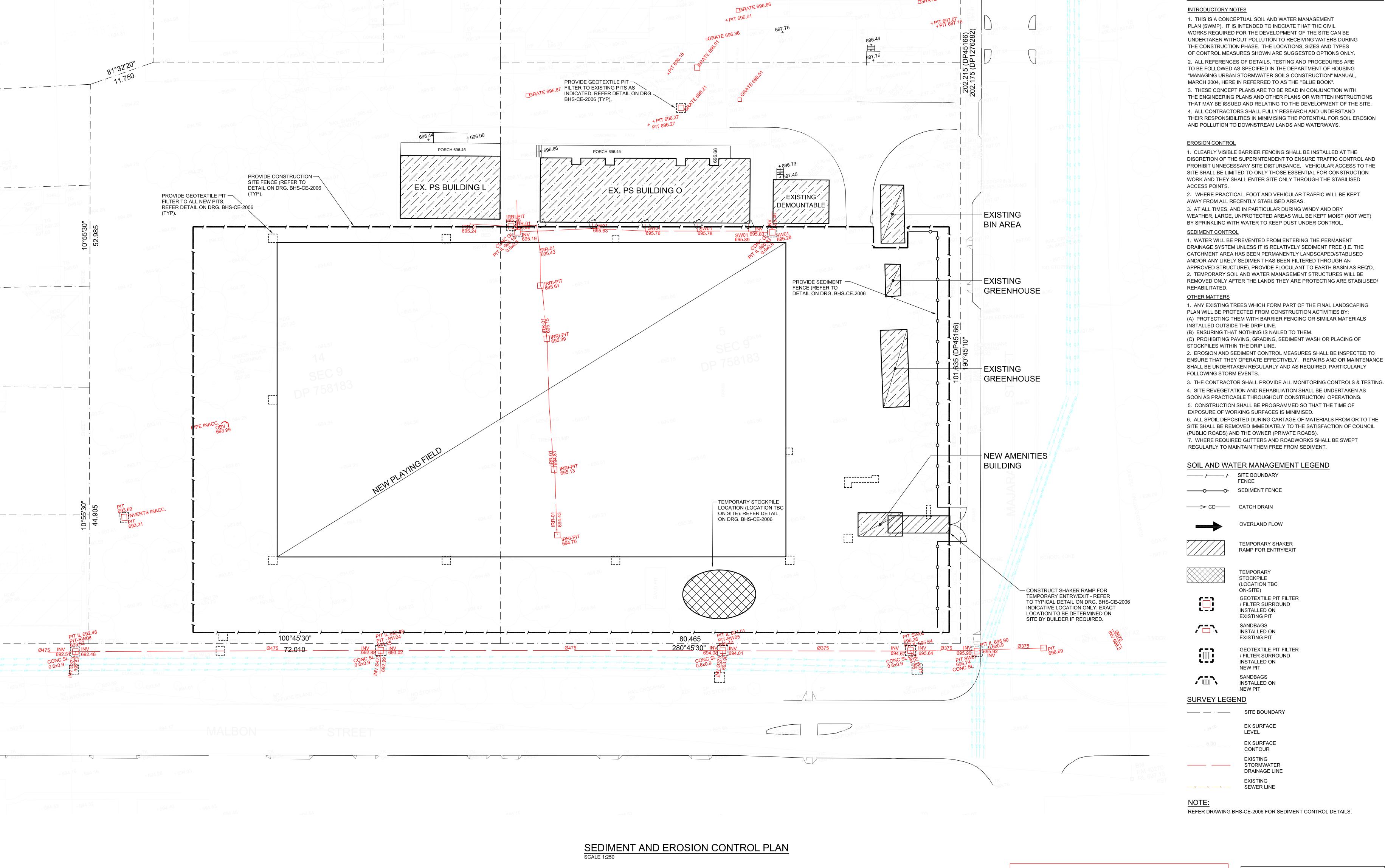
BHS-CE-2201

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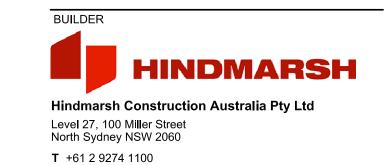






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Architect
TKD Architects
T+ 61 2 9281 4399

Mechanical, Electrical, Hydraulic, ESD

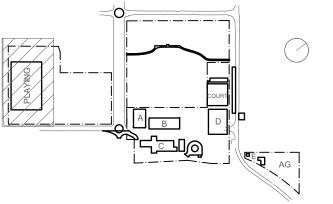
Norman Disney & Young

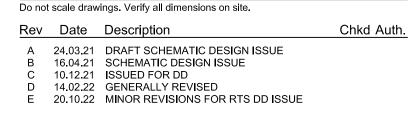
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Landscape Architecture

Context
T+ 61 2 8244 8900

Acoustic
Acoustic Logic
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MAJARA STREET,
BUNGENDORE NSW 2621

Drawing Title PLAYING FIELD UPGRADE

CONTROL PLAN

SEDIMENT & EROSION

Designed Reviewed Drawn Sheet

MW SCM MW B1

Job No. Status Date Scale

5555 DD OCT '21 1:250

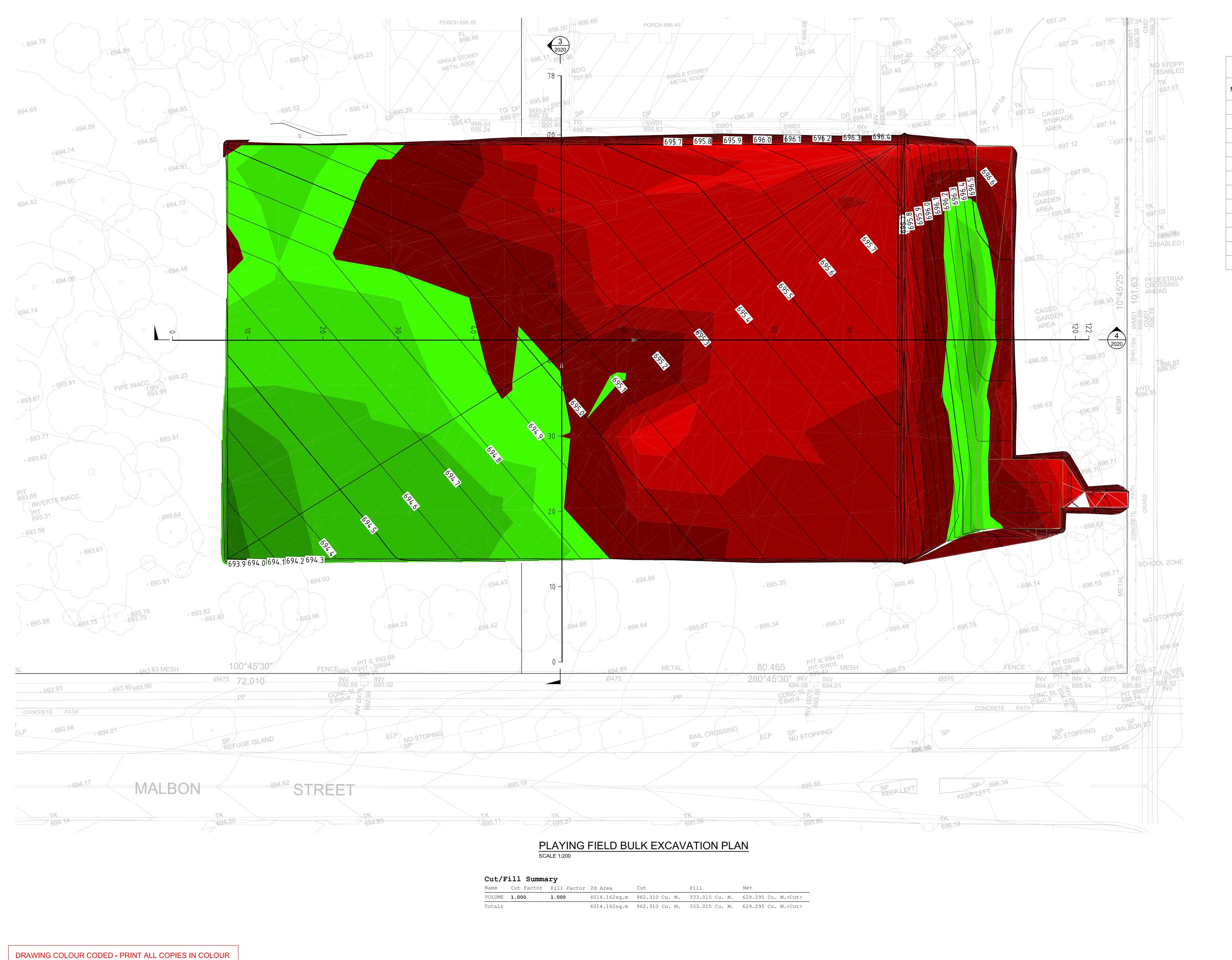
Drawing No.

M+G Consulting



SOIL AND WATER MANAGEMENT NOTES







Surface Analysis: Elevation Ranges

-0.400

-0.200

0.100

0.400

Minimum Elevation | Maximum Elevation

-0.600

-0.500

-0.400

-0.300

-0.200

-0.100

0.000

0.100

0.200

0.300

0.400

0.500



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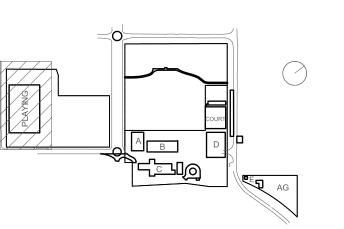
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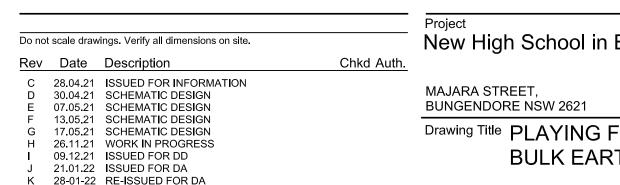
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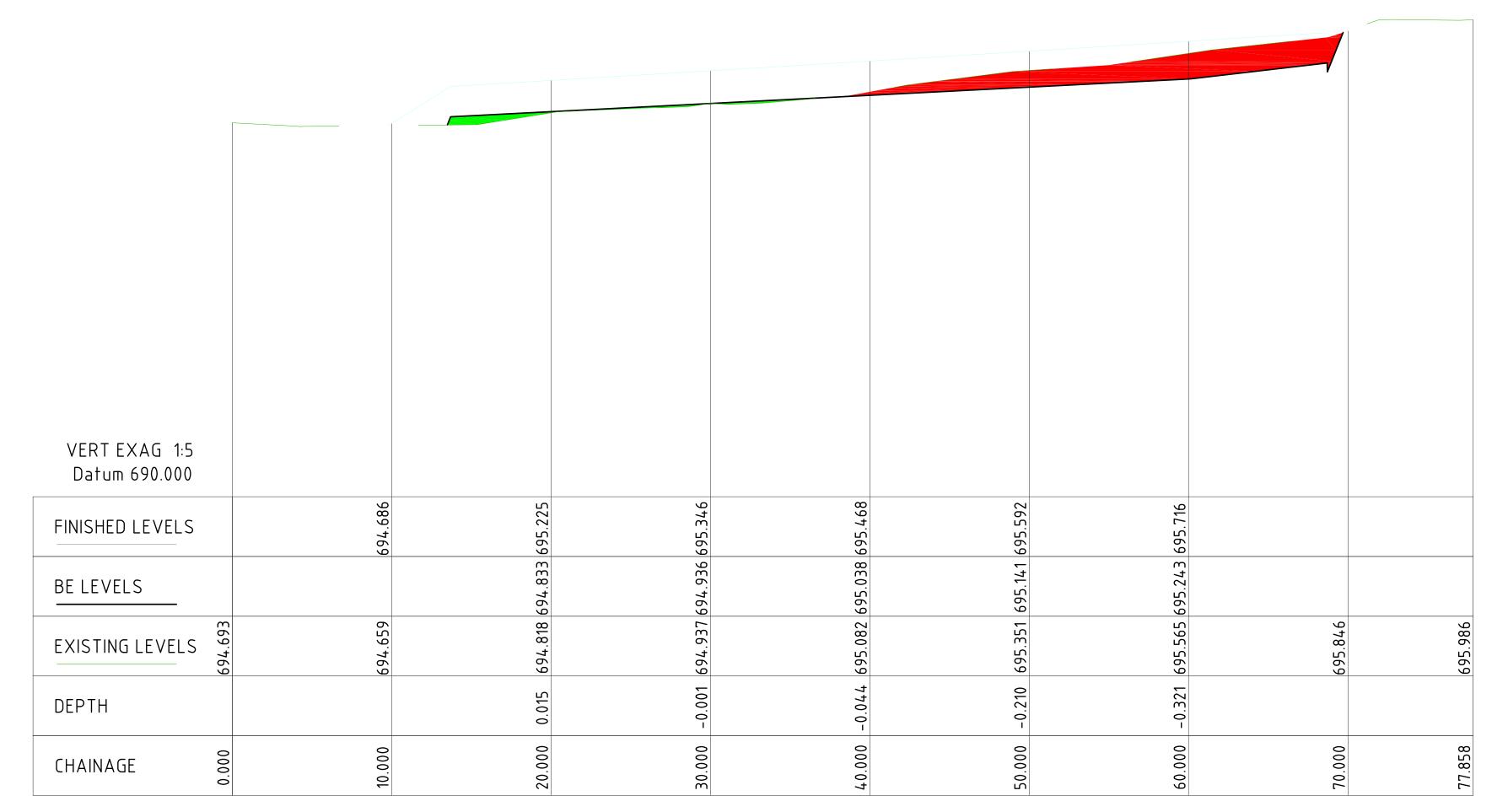


. 14.02.22 GENERALLY REVISED

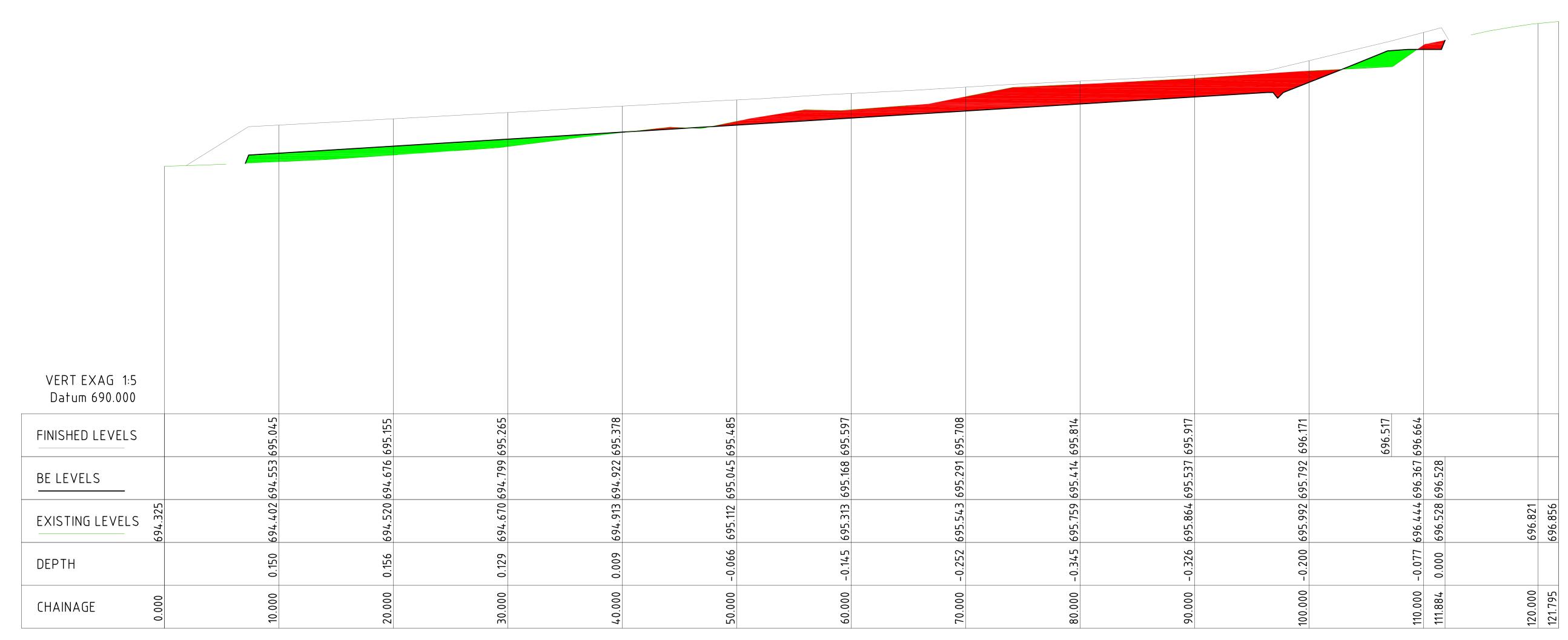
Designed New High School in Bungendore Job No. 5555 Drawing Title PLAYING FIELD UPGRADE Drawing No. BULK EARTHWORKS PLAN BPS-CE-2020

Reviewed Drawn Sheet Scale Status Date DD OCT '21 1:200

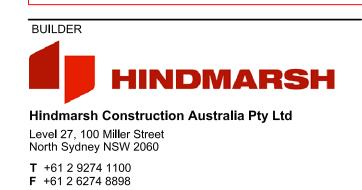




CL-3 LONG SECTION



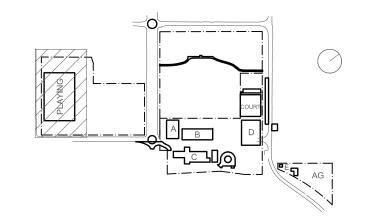
CL-4 LONG SECTION



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F 13.05.21 SCHEMATIC DESIGN
G 17.05.21 SCHEMATIC DESIGN
H 26.11.21 WORK IN PROGRESS
I 09.12.21 ISSUED FOR DD J 21.01.22 ISSUED FOR DA
K 28-01-22 RE-ISSUED FOR DA
L 14.02.22 GENERALLY REVISED

New High School in Bungendore MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title PLAYING FIELD UPGRADE

BULK EARTHWORKS

LONGITUDINAL SECTIONS

Designed Reviewed Drawn Sheet MW B1 MW Job No. Status Date Scale DD OCT '21 1:200 5555

BPS-CE-2021

Surface Analysis: Elevation Ranges

-0.700

-0.600

-0.500

-0.400

-0.300

-0.200

-0.100

0.000

0.100

0.200

0.300

0.400

10

12

Minimum Elevation | Maximum Elevation

-0.600

-0.500

-0.400

-0.300

-0.200

-0.100

0.000

0.100

0.200

0.300

0.400

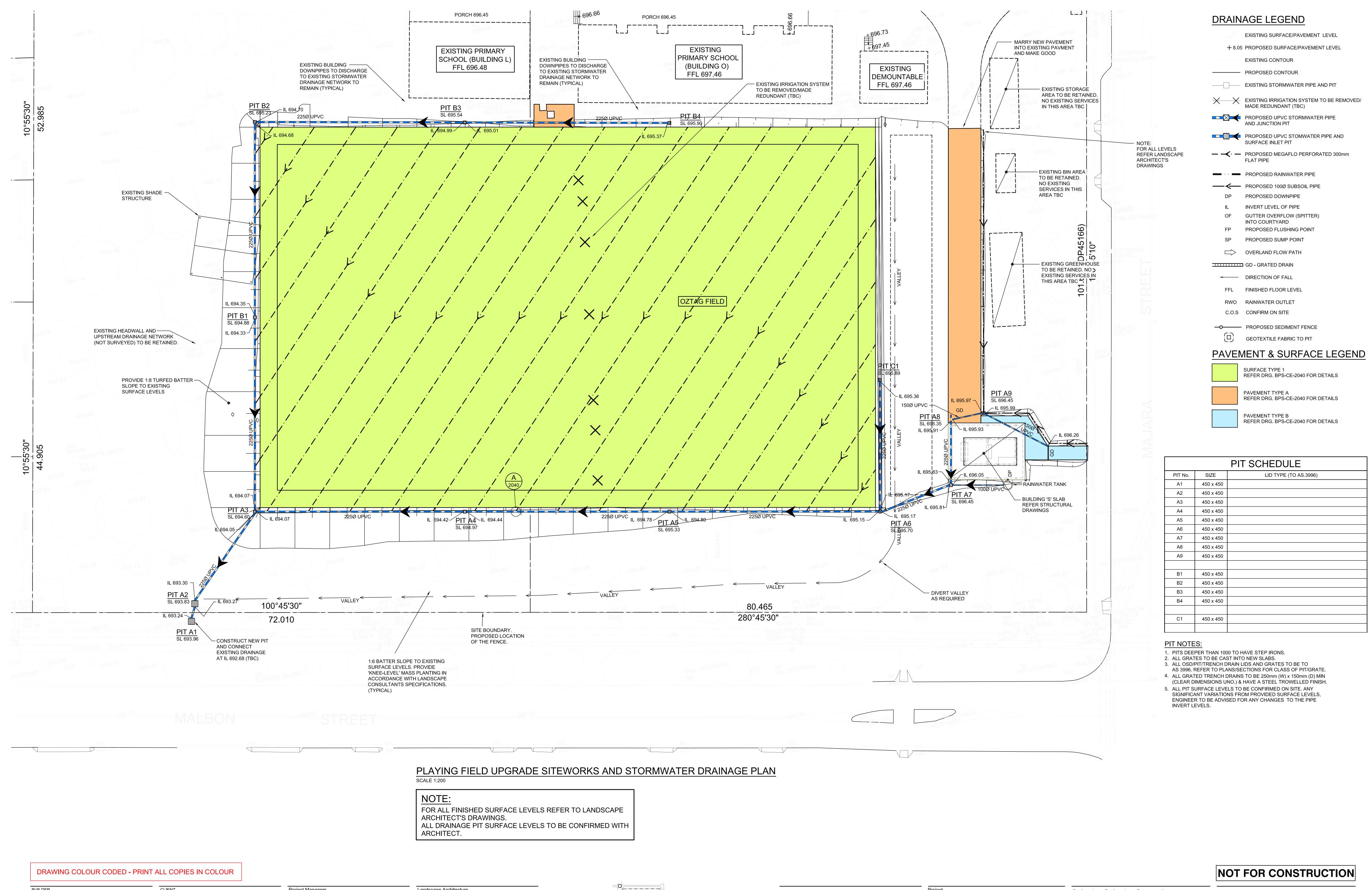
0.500

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Landscape Architecture

Context

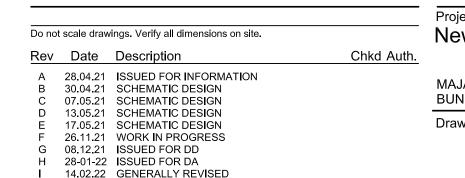
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Acoustic

Acoustic Logic

T+ 61 2 8339 8000





J 23.11.22 ISSUED FOR RTS

MAJARA STREET,
BUNGENDORE NSW 2621

Drawing Title PLAYING FIELD UPGRADE
SITEWORKS AND
STORMWATER DRAINAGE

Designed Reviewed Drawn Sheet

MW SCM MW B1

Job No. Status Date Scale

5555 DD OCT '21 1:200

Drawing No.

BPS-CE-2033

M+G COI

M & G CONSULTING ENGINEERS P

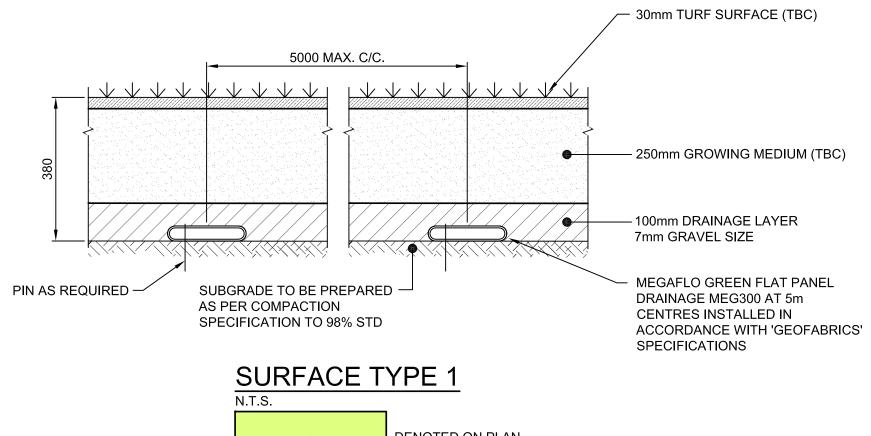
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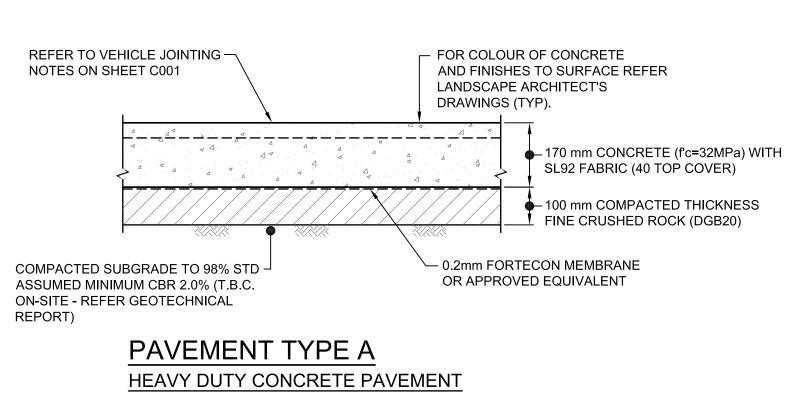
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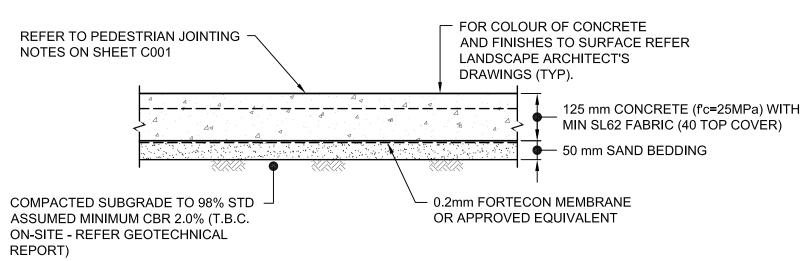


DENOTED ON PLAN 1. FOR FURTHER DETAIL REFER TO LANDSCAPE DOCUMENTATION; 2. MEGAFLO OUTFALL AT 4 DEGREES MIN, AS PER MEGAFLOW SPEC

3. DETAIL TO BE CONFIRMED BY SPECIALIST SPORTS FIELD CONSULTANT



SCALE 1:10 DENOTED ON PLAN



PAVEMENT TYPE B CONCRETE FOOTPATH PAVEMENT SCALE 1:10

DENOTED ON PLAN

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

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DRAINAGE PIPE CONNECTION — FROM MEGAFLO PERFORATED

TO MANUFACTURERS DETAILS

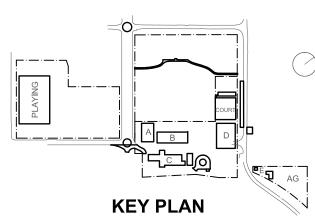
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DETAIL SCALE 1:10

·-+---

300mm FLAT PIPE TO THE STORMWATER DRAINAGE PIP

(TYP).



─ MEGAFLO PERFORATED 300mm

FLAT PIPE

STORMWATER DRAINAGE PIPE

REFER PLAN DRG. BPS-CE-2033

New High School in Bungendore Do not scale drawings. Verify all dimensions on site. Chkd Auth. Rev Date Description A 08.12.21 ISSUED FOR DD B 28-01-22 ISSUED FOR DA C 23.11.22 ISSUED FOR RTS

MAJARA STREET, BUNGENDORE NSW 2621 Drawing Title PLAYING FIELD UPGRADE SITEWORKS PAVEMENT DETAILS

Reviewed Drawn Sheet Designed MW B1 Job No. Status Date DD OCT '21 1:200 Drawing No.

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