

CALOUNDRA SOUTH POLICE STATION

CIVIL WORKS

2 NOVEL ROAD, BELLS CREEK QLD 4551

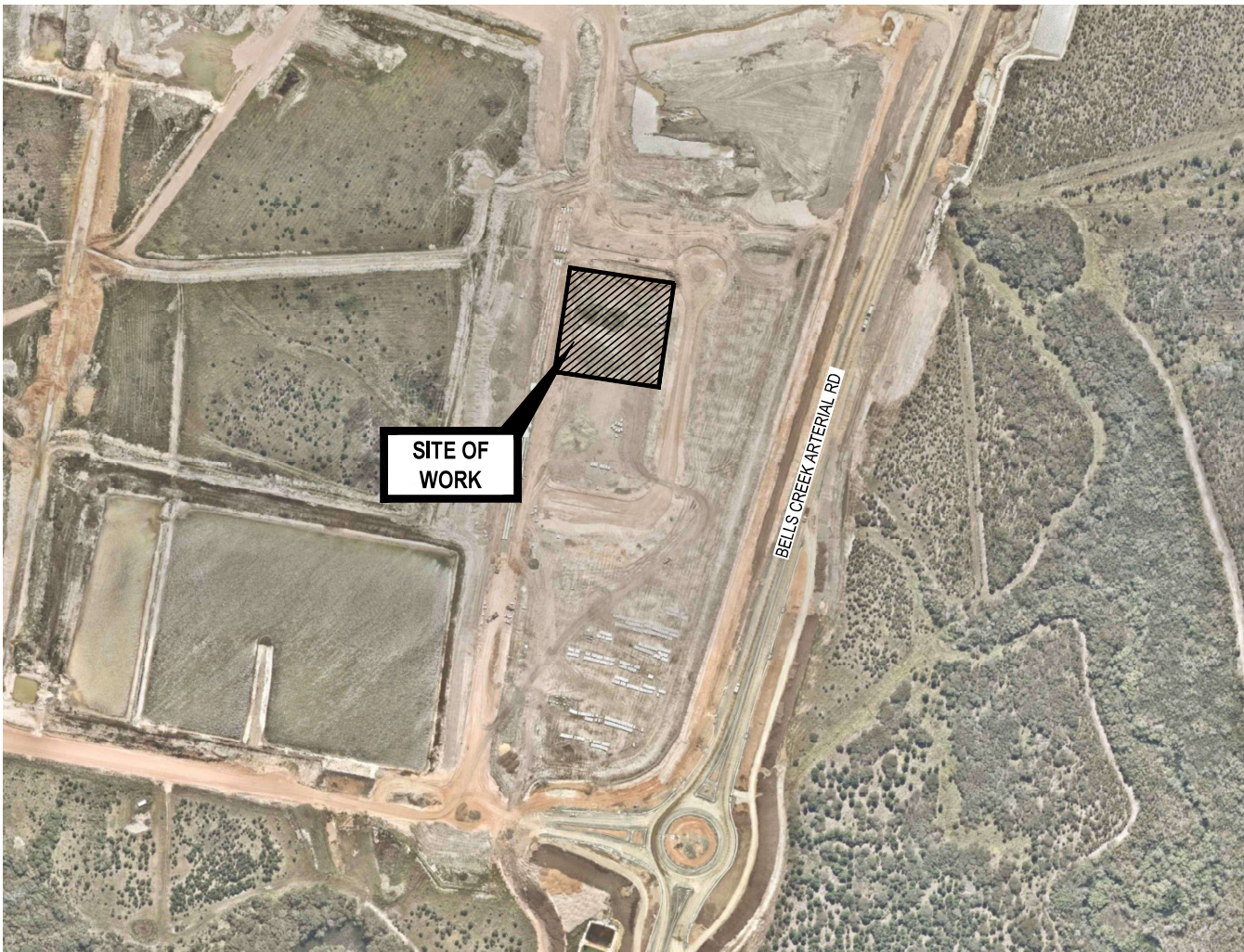
FOR: QUEENSLAND GOVERNMENT

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QL220444,1-C07-003	CIVIL DETAILS SHEET 3

No. OF LOTS = XX
AREA OF SITE = XX HA
RP DESCRIPTION
LOT X ON RP
DATUM LEVEL
P.S.M.
SURVEYOR DETAILS
XXXXXXXX
CONTACT DETAILS: ADDRESS: XXXXX PHONE: (XX) XXXX XXXX

Proposed lot 80045 - 2 Novel Road,
Bells Creek QLD 4551

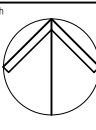


LOCALITY PLAN
1:2500

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B	FOR TOWN PLANNING APPROVAL	29.03.23	JAM	PK	
A	FOR COORDINATION	28.03.23	JAM	PK	
Issue	Description	Date	Drawn	Approved	



ENGINEER'S CERTIFICATION
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Project: CALOUNDRA SOUTH POLICE STATION
QPS
2 NOVEL ROAD
BELLS CREEK QLD 4551

Drawing Title
COVER SHEET AND DRAWING INDEX

Drawn JAM	Date MARCH 2023	Scale 1:2500	A1	Q.A. Check SS	Date XXX
Designed KG	Project No. QL220444.1	Dwg. No. C01-001	Issue B		

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2023/1396
Date: 19 May 2023



AMENDED IN RED
By: Andrew McKnight
Date: 16 May 2023



THIS DRAWING IS TO BE
PRINTED IN COLOUR

NOT FOR CONSTRUCTION

GENERAL

ORIGINAL SITE SURVEY PREPARED BY: XXXX

- DATUMS USED: AHD
VERT: RL
ORIGIN:
CONTOUR INTERVAL: 0.10m
REAL PROPERTY DESCRIPTION:
XXXX
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
 - EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT.
 - THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT BY A LICENSED LAND SURVEYOR, CONFIRM SETOUT WITH ARCHITECT.
 - ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH APPROVED FILL MATERIAL AND COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289.5.1.1:2017.
 - ON COMPLETION OF SERVICES INSTALLATION, ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
 - WHERE NEW WORK ABUTS EXISTING, THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE FREE FROM ABRUPT CHANGES, IS OBTAINED.
 - CARE TO BE TAKEN WHEN EXCAVATING ELECTRICAL, COMMUNICATIONS AND ORIGIN GAS SERVICES, NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER ELECTRICAL, COMMUNICATIONS AND GAS; HAND EXCAVATE IN THESE AREAS. LIAISE WITH RELEVANT LOCAL AUTHORITY.
 - ALL WORKS SHALL BE IN ACCORDANCE WITH RELEVANT THE LOCAL AUTHORITY STANDARDS, DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATION AND THE DIRECTIONS OF THE ARCHITECT.
 - THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING SURVEY BENCH MARKS OR REFERENCE MARKS (UNLESS INDICATED FOR REMOVAL) WITHOUT DEPT. OF NATURAL RESOURCES APPROVAL IN WRITING.
 - THE CONTRACTOR SHALL OBTAIN ALL RELEVANT AUTHORITIES APPROVALS, (PRIOR TO COMMENCEMENT AND UPON COMPLETION).
 - WORK ON EXISTING EXTERNAL STORMWATER SERVICES BY CONTRACTOR ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY.
 - THE CONTRACTOR SHALL LOCATE AND CONFIRM LEVELS OF ALL EXISTING SERVICE CONNECTIONS PRIOR TO COMMENCING WORK.
 - THE CONTRACTOR SHALL REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF TREATMENT OF BATTERS, SWALE DRAINS AND ANY OTHER AREAS DISTURBED AS PART OF CIVIL WORKS.
 - ROAD OPENINGS:
THE CONTRACTOR'S ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE LOCAL AUTHORITY, WHERE THE WORK IS LOCATED IN A ROAD RESERVE OR CROSSES THE PAVEMENT OF A PUBLIC ROADWAY OR FOOTWAY, OBTAIN A CONSENT COVERING THE NECESSARY OPENINGS AND COMPLY WITH ALL THE CONDITIONS COVERING THE ISSUE OF SUCH A CONSENT. A CHARGE IS MADE FOR PERMITS ISSUED IN RESPECT OF PAVEMENT OPENINGS. CONTRACTOR TO OBTAIN DETAILS FROM THE LOCAL AUTHORITY, MEET ALL REQUIREMENTS AND PAYMENTS, AND CARRY OUT ALL LIAISON AT NO EXTRA COST. ALL PAVEMENT SURFACING IS TO BE UNDERTAKEN BY THE CONTRACTOR. ALL PAVEMENT REINSTATEMENT TO BE UNDERTAKEN BY THE CONTRACTOR.
 - REFER ALSO TO HYDRAULIC, LANDSCAPING, MECHANICAL AND ELECTRICAL CONSULTANTS' DRAWINGS FOR ADDITIONAL SITE SERVICES TO BE CO-ORDINATED FOR CONSTRUCTION UNDER PROPOSED CARPARK PAVEMENTS.
 - A GEOTECHNICAL INVESTIGATION FOR THE ORIGINAL SITE HAS BEEN PREPARED BY DOUGLAS PARTNERS, PROJECT No. 218423.00 DATED FEBRUARY 2023. THE CONTRACTOR SHALL ENSURE THAT THEY ARE FAMILIAR WITH THE CONTENTS OF THIS REPORT AND THE REPORT DOES FORM PART OF THE CONTRACT.
 - ALL CONSTRUCTION WORK SHALL BE CARRIED OUT SO THAT AT ANY TIME ADJOINING PROPERTY OWNERS ARE NOT DEPRIVED OF AN ALL-WEATHER ACCESS OR SUBJECTED TO ADDITIONAL STORM WATER RUN-OFF DURING THE PERIOD OF CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO THE LOCAL AUTHORITY'S INFRASTRUCTURE. SUCH REPAIR OR REINSTATEMENT TO BE CARRIED OUT IMMEDIATELY TO THE SATISFACTION OF THE SUBDIVISION AND DEVELOPMENT MANAGER OF THE LOCAL AUTHORITY.
 - SITE INSPECTIONS REQUIRED AS SPECIFIED.
 - FOR CIVIL SETOUT INFORMATION CONTACT ACOR QLD PTY LTD (PH +61 7 3844 5900) AND AN AUTOCAD DRAWING FILE WILL BE ISSUED FOR INFORMATION TO ASSIST WITH THE SITE SETOUT.
 - CONTRACTOR IS TO ALLOW TO INCLUDE ANY REQUIRED THE LOCAL AUTHORITY INSPECTION AND COMPLIANCE FEES IN THE CONTRACT.

- EXPOSED CONSTRUCTION AREAS SHALL BE PROOF ROLLED USING A VEHICLE WITH A TARE OF AT LEAST 5 TONNES PER AXLE IN THE PRESENCE OF THE NOMINATED GEOTECHNICAL TESTING AUTHORITY AND A REPRESENTATIVE OF ACOR QLD PTY LTD. AREAS DEMONSTRATING EXCESSIVE MOVEMENT SHALL BE TREATED IF POSSIBLE, OR REMOVED TO COMPETENT MATERIAL AND REPLACED WITH COMPACTED IMPORTED FILL MATERIAL. CONTRACTOR TO ALLOW A PROVISIONAL SUM FOR REMOVAL OF UNSUITABLE MATERIAL AND REPLACEMENT WITH COMPACTED IMPORTED FILL MATERIAL. ALLOW A PROVISIONAL QUANTITY OF 400m³.
- ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW FOR IMPORTED FILL MATERIAL.
- PLACE IMPORTED FILL MATERIALS SATISFYING THE REQUIREMENTS LISTED BELOW TO NOMINATED BULK EARTHWORKS LEVELS ON BULK EARTHWORKS PLAN.
- ALL IMPORTED FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
 - FREE FROM ORGANIC AND PERISHABLE MATTER
 - MAXIMUM PARTICLE SIZE 100mm
 - PLASTICITY INDEX MAXIMUM 15%
 - LIQUID LIMIT, MAX OF 45%
 - PASSING 19mm SIEVE, MAX 80%
 - MINIMUM CBR 10%
- CONTRACTOR TO PROVIDE CERTIFICATION TO SUPERINTENDENT FROM NATA REGISTERED LAB THAT THE FILL MATERIAL IS FREE OF ACTUAL OR POTENTIAL ACID SULFATE SOILS AND MEETS CURRENT DPI REGULATIONS FOR THE CONTROL OF RED IMPORTED FIRE ANTS (RIFA).
- ALL ENGINEERED FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE THE FOLLOWING MINIMUM COMPACTION VALUES:

LOCATION	COHESIVE SOILS	COHESIONLESS SOILS
BUILDING AREAS		
• FOUNDATION SUPPORT	98%	80%
• FLOOR SLABS	98%	80%
PAVEMENT AREAS		
• TOP 300mm BELOW SUBGRADE LEVEL	98%	80%
• BELOW THE TOP 300mm LANDSCAPE AREAS	95%	75%

WHERE THE ABOVE VALUES ARE DETERMINED IN ACCORDANCE WITH AS1289.5.1.1 (STANDARD COMPACTION) FOR COHESIVE SOILS AND AS1289.5.6.1 (STANDARD METHOD) FOR COHESIONLESS SOILS.

- ALL EARTHWORKS OPERATIONS SHALL BE CARRIED OUT WITH 'LEVEL 1' ENGINEERING SUPERVISION IN ACCORDANCE WITH APPENDIX B OF AS 3798, THE NOMINATED GEOTECHNICAL TESTING AUTHORITY SHALL PROVIDE RPEQ CERTIFICATION AS NOTED IN THE GEOTECHNICAL REPORT THAT ALL GENERAL EARTHWORKS OPERATIONS HAVE BEEN CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THE CONTROLLED FILL IS SUITABLE FOR PURPOSE WITH A MINIMUM 100 KPa BEARING CAPACITY UNDER THE BUILDING. ALL CERTIFICATIONS RECOMMENDED IN DOUGLAS PARTNERS REPORT, PROJECT No. 218423.00 DATED FEBRUARY 2023 ARE TO BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROGRAMME THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798 BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTOR'S EXPENSE.
- ALL BASE AND SUB-BASE MATERIALS SHALL BE PLACED IN MAXIMUM 150mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT OF (+ OR - 2%) TO ACHIEVE A DRY DENSITY IN ACCORDANCE WITH AS 1289.5.2.1 OF NOT LESS THAN THE FOLLOWING:

LAYER	MODIFIED DRY DENSITY
BASE COURSE	98% MODIFIED (AS 1289.5.2.1)
SUB-BASE COURSE	95% MODIFIED (AS 1289.5.2.1)

- ANY SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE AT AN APPROVED TIP SITE. CONTRACTOR TO ALLOW TO COMPLY WITH CURRENT DEPARTMENT OF AGRICULTURAL AND WATER RESOURCES REGULATIONS FOR THE CONTROL OF RED IMPORTED FIRE ANTS.
- ANY CONTAMINATED MATERIAL SHALL BE MANAGED AND DISPOSED OF ACCORDING TO THE LOCAL AUTHORITY AND EPA REQUIREMENTS INCLUDING CERTIFICATION.
- THE USE OF POTABLE WATER IS NOT PERMITTED IN ACTIVITIES ASSOCIATED WITH ROAD AND PAVEMENT CONSTRUCTION, THE COMPACTION OF FILL MATERIAL OR DUST SUPPRESSION CONTRACTOR TO UTILISE RECYCLED OR SUITABLE NON POTABLE WATER FOR THESE ACTIVITIES WITHIN THE CONTRACT. USE OF RECYCLED WATER MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.

EXISTING SERVICES AND FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL FOR HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY SEPARATE AND PRECEDING DEMOLITION WORKS. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT, ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- WHERE THERE IS AN ACTUAL OR POTENTIAL CLASH WITH EXISTING IN-GROUND SERVICES/FEATURES, THE CONTRACTOR IS TO ALLOW FOR NON-DESTRUCTIVE INVESTIGATORY WORKS TO DETERMINE THE TYPE, NUMBER, SIZE, INVERT AND OBVERT OF THE IN-GROUND ASSET AND HAVE DOCUMENTED BY A LICENSED SURVEYOR IN PDF AND DWG FORMATS.

STORMWATER

- ALL 300 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "3" APPROVED SPIGOT AND SOCKET RCP PIPES WITH RUBBER RING JOINTS, (U.N.O.). ALL DRAINAGE PIPES UP TO AND INCLUDING 225 DIA. SHALL BE SEWER GRADE DWV uPVC CLASS "SN8" WITH SOLVENT WELD JOINTS OR RUBBER RING JOINTS (U.N.O.)
- EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
- ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND ALL TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
- MINIMUM GRADE TO STORMWATER LINES TO BE 1%, (U.N.O.).
- CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION TO DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE SHALL BE USED.
- PROVIDE 3.0m LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT,(UNO)
- BEDDING SHALL BE TYPE H1 (U.N.O.) IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS.
- AT CONNECTION TO PITS, INVERT OF SUBSOIL DRAINS TO BE ABOVE MAIN STORMWATER PIPE OBVERT.
- EQUIVALENT STRENGTH PRECAST STORMWATER PITS AND MANHOLES MAY BE USED.

LINEMARKING

- ALL LINEMARKING TO BE IN ACCORDANCE WITH AS 1742 PARTS 1 AND 2.
- ALL INTERNAL CARPARK LINE MARKING SHALL BE 90mm WIDE UNO AND BE COMPLETED USING WHITE REFLECTORISED PAINT UNO IN ACCORDANCE WITH AS 1742 AND AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATION.
- THE INTERNATIONAL SYMBOL OF ACCESS SHALL BE WHITE ON A BLUE BACKGROUND IN ACCORDANCE WITH AS 1428. THE BLUE SHALL BE B21, ULTRAMARINE OF AS 2700, OR SIMILAR APPROVED.

EXISTING SERVICES NOTE

- NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE CAUSED ON SITE.
- ALL REASONABLE CARE HAS BEEN TAKEN TO ACCURATELY SHOW THE POSITION OF EXISTING SERVICES. HOWEVER, THE POSITION OF SUCH SERVICES SHOULD BE PROVEN ON SITE AND NO GUARANTEE CAN BE GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. AREAS SURROUNDING EXISTING SERVICES ARE TO BE EXCAVATED BY HAND OR BY APPROVED VACUUM EXCAVATION CONTRACTOR.
- CONTRACTOR TO CONFIRM THE LOCATION, SIZE AND DEPTH OF ALL EXISTING SERVICES PRIOR TO CONSTRUCTION.
 - WHERE REQUIRED, CONTRACTOR TO POTHOLE TO CONFIRM LOCATION AND DEPTHS OF ALL UNDERGROUND SERVICES PRIOR TO UNDERTAKING ANY WORKS.
- ALL EXISTING SERVICE STRUCTURES OR LIDS AFFECTED BY THE WORKS ARE TO BE ADJUSTED TO MATCH PROPOSED NEW SURFACE LEVELS.
- CONTRACTOR TO LIAISE WITH RELEVANT AUTHORITY ON ANY REQUIRED PROTECTION/RELOCATION MEASURES AND INFORM ENGINEER OF APPROVED DESIGN PRIOR TO UNDERTAKING ANY WORKS.

EARTHWORKS

- FOLLOWING DEMOLITION OF EXISTING STRUCTURES, ALL VEGETATION, SOILS CONTAINING ORGANIC AND DELETERIOUS MATERIAL, CONCRETE SLABS, CONCRETE BUILDING FOOTINGS AND PAVEMENT AREAS SHALL BE STRIPPED AND REMOVED FROM SITE.
- ALL EXISTING TREE STUMPS AND ROOTS SHALL BE GRUBBED OUT TO A MINIMUM DEPTH OF 750mm.
- DEPRESSIONS FORMED BY REMOVAL OF UNDERGROUND ELEMENTS AND OR WEAKENED AREAS SHOULD BE CLEANED OUT AND FILLED WITH COMPACTED IMPORTED FILL MATERIAL.

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					North
B	FOR TOWN PLANNING APPROVAL	29.03.23	JAM	PK	
A	FOR COORDINATION	28.03.23	JAM	PK	
Issue	Description	Date	Drawn	Approved	

ENGINEER'S CERTIFICATION	
NAME:	
RPEQ No:	
SIGNED:	

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Project

CALOUNDRA SOUTH POLICE STATION
QPS

2 NOVEL ROAD
BELLS CREEK QLD 4551

THIS DRAWING IS TO BE PRINTED IN COLOUR					
NOT FOR CONSTRUCTION					
Drawing Title CONSTRUCTION NOTES SHEET 1					
Drawn JAM	Date MARCH 2023	Scale NTS	A1	QA Check SS	Date XXX
Designed KG	Project No. QL220444.1	Dwg. No. C01-101	Issue B		

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2023/1396

Date: 19 May 2023



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GENERAL

- ## CONCRETE

- | ELEMENT | COMPRESSIVE STRENGTH
F _c - 28 DAYS (MPa) | SUMP
(mm) | MAX AGG
SIZE (mm) |
|-----------------------|--|--------------|----------------------|
| ALL KERBS, PITS ETC | 20 | 80 | 20 |
| FOOTPATH | 25 | 80 | 20 |
| CARPARK PAVEMENT | 32 | 65 | 20 |
| OSD TANK BASE AND LID | 40 | 80 | 20 |

- ## FINISHING

- ## REINFORCEMENT

- | SYMBOL | BAR SHAPE | STRENGTH
GRADE (MPa) | DUCTILITY
CLASS | TO COMPLY WITH
AUST. STANDARD |
|--------|---------------------------|-------------------------|--------------------|----------------------------------|
| N | DEFORMED RIBBED BAR | 500 | NORMAL | AS 4671 |
| R | PLAIN ROUND BAR | 250 | NORMAL | AS 4671 |
| Y | DEFORMED BAR
*SEE NOTE | 410 | NORMAL | AS 1302 |

*NOTE: Y BARS MAY BE REPLACED WITH N BARS OF SAME SIZE.
19.2 MESH REINFORCEMENT

SYMBOL	DENOTES	STRENGTH GRADE (MPa)	DUCTILITY CLASS	TO COMPLY WITH AUST. STANDARD
RL	RECTANGULAR MESH OF DEFORMED RIBBED BARS	500	LOW	AS 4671
SL	SQUARE MESH OF DEFORMED RIBBED BARS	500	LOW	AS 4671
F	RECTANGULAR OR SQUARE MESH OF PLAIN WIRE *SEE NOTE	450		AS 1304

*NOTE: F MESH MAY BE REPLACED WITH RL OR SL MESH OF THE SAME CONFIGURATION.

- ENGINEER'S CERTIFICATION

NAME: _____
RPEQ No _____
SIGNED: _____

Client



**Queensland
Government**



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Project

CALOUNDRA SOUTH POLICE STATION
QPS

2 NOVEL ROAD
BELLS CREEK QLD 4551

Drawing Title
CONSTRUCTION NOTES
SHEET 2

NOT FOR CONSTRUCTION

Drawn JAM	Date MARCH 2023	Scale NTS	A1 Q.A. Check SS	Date XX
Designed KG	Project No. QL220444.1		Dwg. No. C01-102	Issue B

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referred to in the PDA
DEVELOPMENT APPROVAL

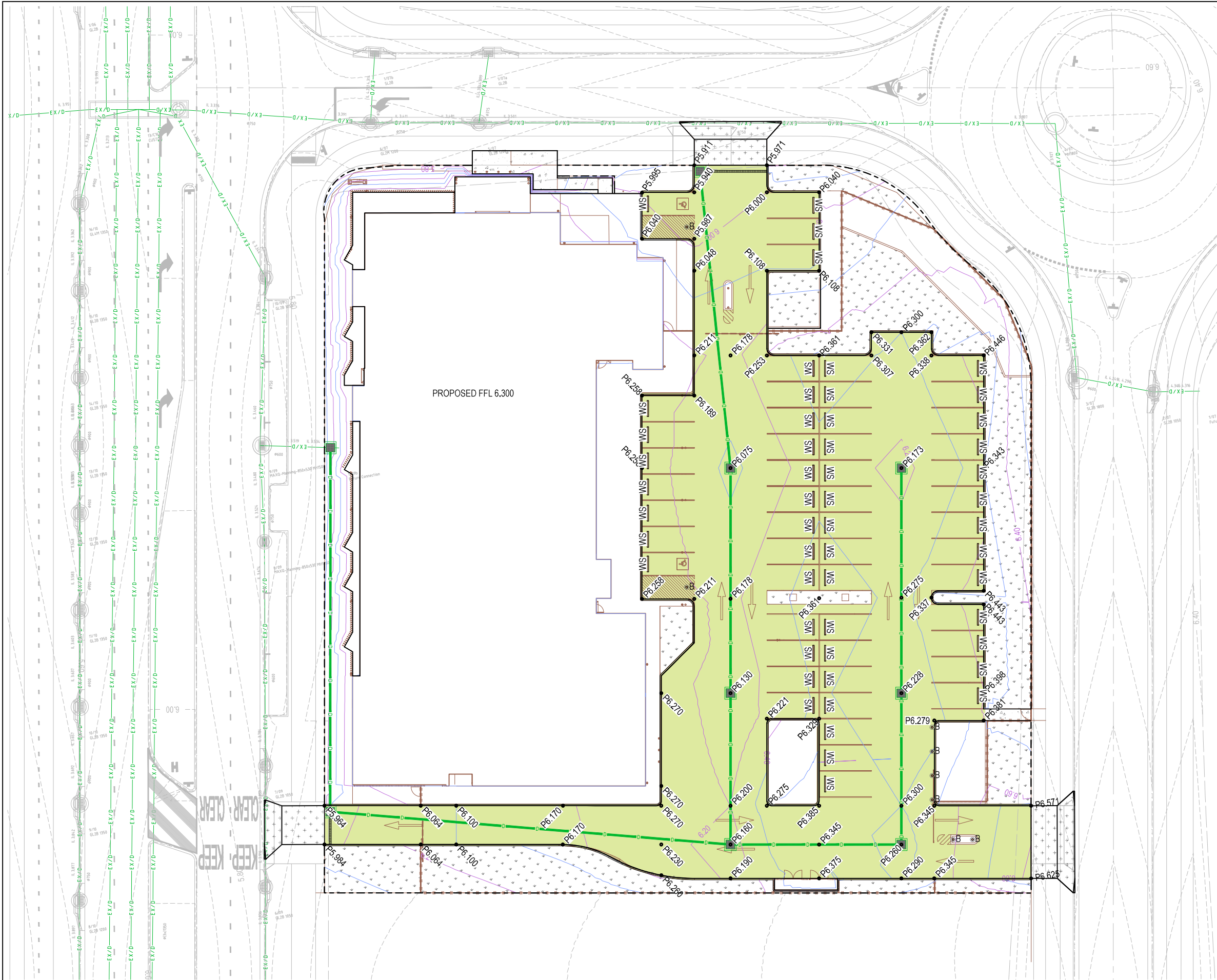
Approval no: DEV2023/1396
Date: 19 May 2023



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A	FOR COORDINATION	28.03.23	JAM	PK
Issue	Description	Date	Drawn	Approved
	Item of full size	Item		Item



SITeworks LEGEND

- PROPOSED CROSSOVER - REFER NOTES FOR DETAILS
- PROPOSED TRAFFICKABLE PAVEMENT - REFER PAVEMENT PLAN QL220444.1-C06-001 FOR PAVEMENT TYPE/EXTENTS
- PROPOSED CONCRETE FOOTPATH - REFER CIVIL DETAILS SHEET QL220444.1-C07-001 FOR DETAILS
- PROPOSED LANDSCAPING - REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR SURFACE TREATMENT
- DEVELOPMENT SITE BOUNDARY
- PROPOSED STORMWATER PIPE
- FINISHED SURFACE LEVEL
- PROPOSED WHEELSTOP - REFER CIVIL DETAILS SHEET QL220444.1-C07-001 FOR DETAILS
- PROPOSED BOLLARD - REFER CIVIL DETAILS SHEET QL220444.1-C07-001 FOR DETAILS
- MAJOR CONTOUR - 0.20m INTERVAL
- MINOR CONTOUR - 0.10m INTERVAL

EXISTING SERVICES LEGEND

- EXISTING STORMWATER DRAINAGE
- EXISTING EDGE OF BITUMEN
- EXISTING KERB INVERT
- EXISTING ROAD CONTROL LINE
- EXISTING CONTOURS - 0.10m INTERVAL

NOTES

- AREAS TO BE LANDSCAPED IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTS PLANS.
- GRADE LANDSCAPE AREA AT MAX 1V:3H (UNO).
- GRADE LANDSCAPED AREAS TO DRAIN TO SURFACE INLET PITS.
- GENERAL CARPARK AND INTERNAL LINEMARKING TO ARCHITECTS DETAILS.
- REFER ELECTRICAL, HYDRAULIC & LANDSCAPE DRAWINGS FOR CONDUIT LOCATIONS, PIPEWORK TO BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
- TRAFFIC MANAGEMENT PLAN TO BE SUBMITTED AND APPROVED BY THE SUPERINTENDENT, ACOR AND (COUNCIL) PRIOR TO COMMENCING WORK.
- REFER TO HYDRAULIC DRAWINGS FOR DETAILS OF PUMPS AND TANKS.
- REFER EXTERNAL WORKS DRAWING QL220444.1-C11-XXX FOR ALL WORKS OUTSIDE THE BOUNDARY.
- PROVIDE YELLOW SLIP-RESISTANT PAINT TO KERB.
- PEDESTRIAN ZONE TO BE IN STALLED IN ACCORDANCE WITH DWG QL220444.1-C07-003.

POSSIBLE PUBLIC UTILITIES PLANT CONFLICTS

- E ELECTRICITY
- SW STORMWATER
- S SEWER
- W WATER
- T TELECOMMUNICATIONS
- G GAS
- PUP EXISTING OVERHEAD ELECTRICAL POLES TO BE REMOVED. REFER ELECTRICAL CONSULTANTS DRAWING FOR DETAILS.

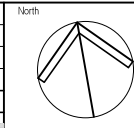
Gross pollutant and oil management traps (litter, coarse sediment and oil removal) are to be provided to capture all ground level runoff from car park.

SCALE 1:200 @ A1
SCALE 1:400 @ A3

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Issue	Description	Date	Drawn	Approved
C	FOR TOWN PLANNING APPROVAL	29.03.23	JAM	PK
B	FOR COORDINATION	28.03.23	JAM	PK
A	FOR COORDINATION	24.03.23	JAM	PK



ENGINEER'S CERTIFICATION

NAME:
RPEQ No:
SIGNED:



46 BERWICK STREET
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PHONE : (07) 3257 1167



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Level 7, 22 Cordelia Street
South Brisbane QLD 4101
T +61 7 3844 5900



Project
CALOUNDRA SOUTH POLICE STATION
QPS

2 NOVEL ROAD
BELLS CREEK QLD 4551

THIS DRAWING IS TO BE
PRINTED IN COLOUR

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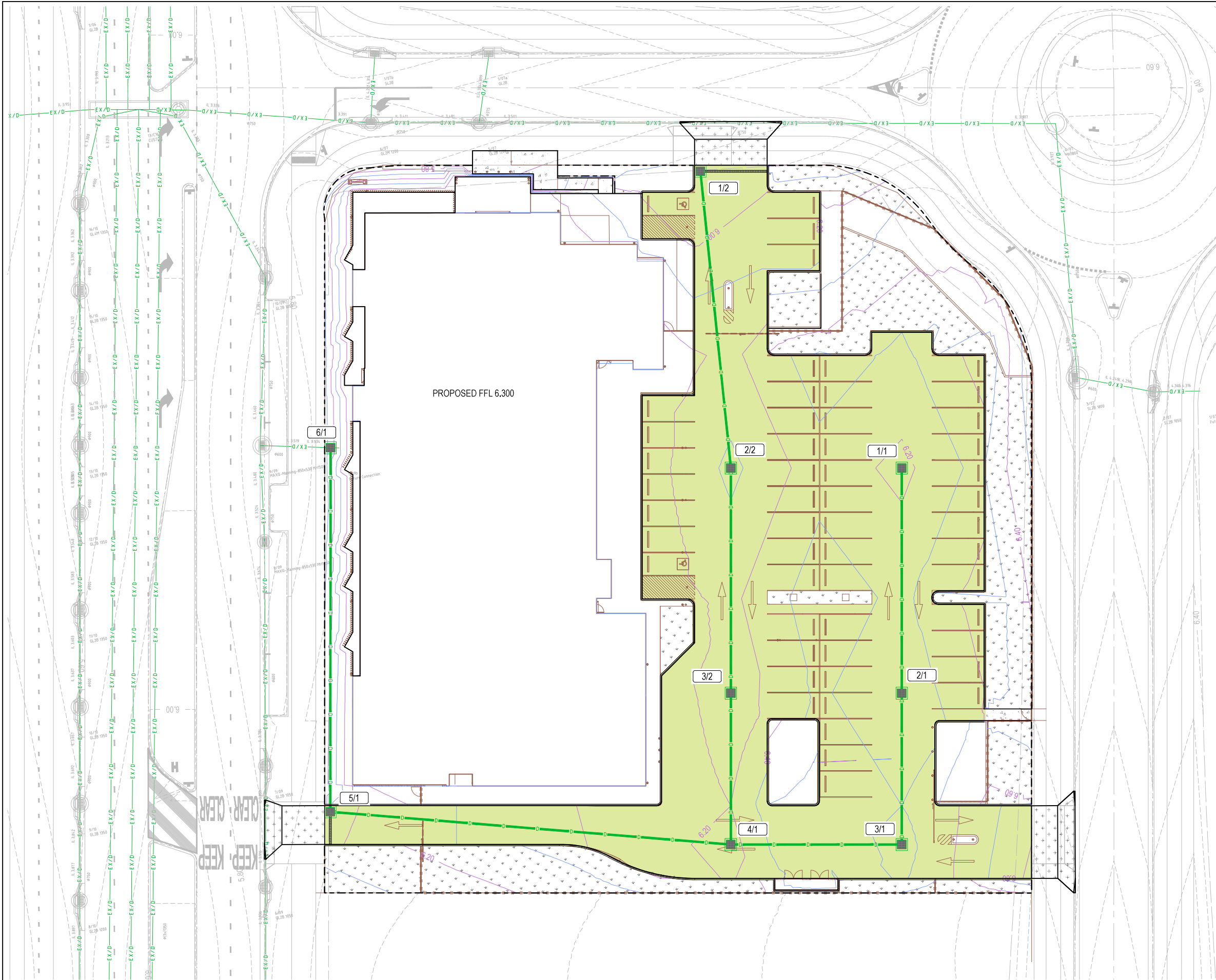
Drawing Title
SITeworks AND GRADING PLAN

Drawn	Date	Scale	A1	Q.A. Check	Date
JAM	MARCH 2023	1:200	SS	XXX	XXX
Designed	Project No.	Dwg. No.	Issue		
KG	QL220444.1	C04-001	C		

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2023/1396
Date: 19 May 2023

AMENDED IN RED
By: Andrew McKnight
Date: 16 May 2023





DRAINAGE LEGEND

- PROPOSED CROSSOVER - REFER NOTES FOR DETAILS
- PROPOSED TRAFFICKABLE PAVEMENT EXTENTS
- PROPOSED CONCRETE FOOTPATH
- PROPOSED LANDSCAPING
- DEVELOPMENT SITE BOUNDARY
- PROPOSED STORMWATER PIPE
- PROPOSED STRUCTURE NUMBER
- PROPOSED STORMWATER GRATED DRAIN - REFER CIVIL DETAILS SHEET QL220444.1-C07-001 FOR DETAILS
- PROPOSED SEALED SUBSOIL DRAINAGE PIPE - Ø100 uPVC PIPE
- MAJOR CONTOUR - 0.20m INTERVAL
- MINOR CONTOUR - 0.10m INTERVAL

EXISTING SERVICES LEGEND

- EXISTING STORMWATER DRAINAGE
- EXISTING EDGE OF BITUMEN
- EXISTING KERB INVERT
- EXISTING ROAD CONTROL LINE
- EXISTING CONTOURS - 0.10m INTERVAL

NOTES

- CONTRACTOR TO COORDINATE STORMWATER WORKS WITH REQUIRED SERVICES, TO ENSURE CLEARANCE TO (CITY COUNCIL) REQUIREMENTS.
- CONTRACTOR TO ALLOW FOR ALL REQUIRED SHORING AND PROTECTION WHEN CARRYING OUT EXCAVATION AND BACKFILLING FOR SPECIFIED HUMECEPTOR AND STORMWATER PITS.
- ALL GRATES TO BE BICYCLE SAFE.
- CONSTRUCT Ø100 SUBSOIL DRAINAGE LINES TO A MINIMUM DEPTH OF 900mm TO IL AND CONNECT TO PROPOSED STORMWATER DRAINAGE SYSTEM WHERE SHOWN.
- CONSTRUCT HIGH END RISER (HER) AND INTERMEDIATE RISER (IR) CLEANOUTS TO DETAILS.
- REFER TO HYDRAULIC DRAWINGS FOR DETAILS OF PUMPS AND TANKS.

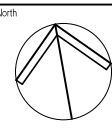
Gross pollutant and oil management traps (litter, coarse sediment and oil removal) are to be provided to capture all ground level runoff from car park.

SCALE 1:200 @ A1
SCALE 1:400 @ A3

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A	FOR COORDINATION	28.03.23	JAM	PK



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Project: CALOUNDRA SOUTH POLICE STATION
QPS
2 NOVEL ROAD
BELLS CREEK QLD 4551

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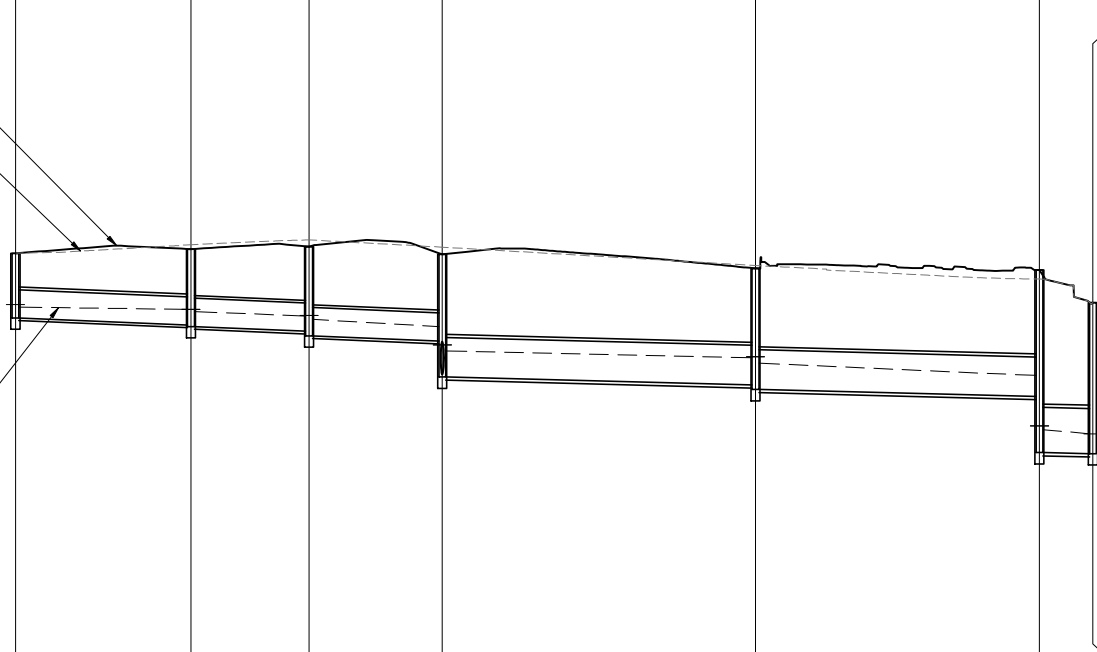
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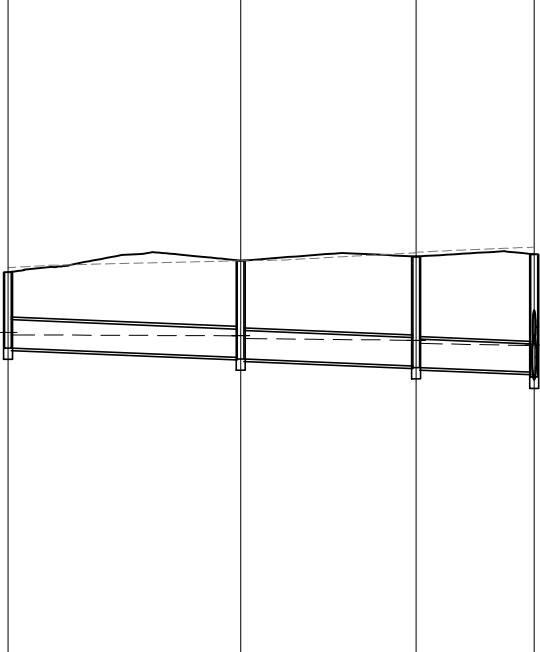
Drawn	Date	Scale	A1	Q.A. Check	Date
JAM	MARCH 2023	1:200	SS	XXX	XXX
Designed	Project No.	Drawn	Issue		
KG	QL220444.1	C05-001	B		

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referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2023/1396
Date: 19 May 2023

AMENDED IN RED
By: Andrew McKnight
Date: 16 May 2023



STRUCTURE NAME	1/DR-01	2/DR-01	3/DR-01	4/DR-01	5/DR-01	6/DR-01	7/DR-01
STRUCTURE DESCRIPTION	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID
DESIGN SURFACE EXISTING SURFACE Q20 H.G.L 							
PIPE SIZE (mm)	375 RCP		375 RCP	375 RCP	525 RCP	525 RCP	600 RCP
PIPE CLASS	0.40% 250.00		0.40% 250.00	0.40% 250.00	0.25% 400.00	0.25% 400.00	0.21% 472.39
PIPE GRADE (%)	0.31 0.88		0.55 1.03	0.63 1.06	0.76 1.09	0.80 1.10	0.60 1.05
PIPE SLOPE (1 in X)	0.31 0.88		0.55 1.03	0.63 1.06	0.76 1.09	0.80 1.10	0.60 1.05
FULL PIPE VELOCITY (m/s)	0.31 0.88		0.55 1.03	0.63 1.06	0.76 1.09	0.80 1.10	0.60 1.05
PART FULL VELOCITY (m/s)	0.31 0.88		0.55 1.03	0.63 1.06	0.76 1.09	0.80 1.10	0.60 1.05
DATUM RL	-2.0						
H.G.L IN PIPE & W.S.E IN STRUCTURE	5.495 5.461	5.432 5.402	5.342 5.352 5.297	5.203 4.959 4.881	4.790 4.805 4.718	4.556 3.888 3.839	3.785 3.785 3.785
PIPE FLOW (Cumecs)	0.034		0.061	0.070	0.164	0.173	0.170
PIPE CAPACITY AT GRADE (Cumecs)	0.111		0.111	0.111	0.215	0.215	0.283
DEPTH TO INVERT	0.857		1.005 1.025	1.119 1.179	1.150 1.626	1.676 2.418	2.003 2.003
INVERT LEVEL OF DRAIN	5.316		5.223 5.203	5.141 5.081	5.010 4.534	4.276 3.534	3.519 3.519
DESIGN SURFACE LEVEL	6.173		6.228	6.260	6.160	5.952	5.522
SETOUT COORDINATES	E 5101.366 N 22015.739	E 5097.342 N 21992.840	E 5094.636 N 21977.443	E 5077.252 N 21980.498	E 5037.112 N 21990.987	E 5043.675 N 22028.007	E 5036.740 N 22029.457
CHAINAGE	0.000	23.250	15.633	38.883 17.650	96.533 41.488	135.619 37.598	142.704 7.086

STRUCTURE NAME	1/DR-02	2/DR-02	3/DR-02	4/DR-01
STRUCTURE DESCRIPTION	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID	900x900 GRATED SURFACE INLET CLASS 'D' GALVANISED MILD STEEL LID
DESIGN SURFACE EXISTING SURFACE Q20 H.G.L 				
PIPE SIZE (mm)	375 RCP		375 RCP	375 RCP
PIPE CLASS	0.40% 250.00		0.40% 250.00	0.40% 250.00
PIPE GRADE (%)	0.30 0.88		0.60 1.05	0.79 1.11
PIPE SLOPE (1 in X)	0.30 0.88		0.60 1.05	0.79 1.11
FULL PIPE VELOCITY (m/s)	0.30 0.88		0.60 1.05	0.79 1.11
PART FULL VELOCITY (m/s)	0.30 0.88		0.60 1.05	0.79 1.11
DATUM RL	-2.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	5.126 5.093	5.081 5.084 5.045	5.022 5.022 4.980	4.951 4.959 4.881
PIPE FLOW (Cumecs)	0.034		0.066	0.087
PIPE CAPACITY AT GRADE (Cumecs)	0.111		0.111	0.111
DEPTH TO INVERT	1.005 4.918		1.280 4.795 4.775	1.561 4.599 4.534
INVERT LEVEL OF DRAIN	5.923		6.075	6.130
DESIGN SURFACE LEVEL	5.923		6.075	6.130
SETOUT COORDINATES	E 5086.184 N 22049.526	E 5083.982 N 22018.794	E 5079.958 N 21995.895	E 5077.252 N 21980.498
CHAINAGE	0.000	30.811	23.250	15.633 69.694

LINE

DR-01

ENGINEER'S CERTIFICATION

NAME:
RPEQ No:
SIGNED:

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B	FOR TOWN PLANNING APPROVAL	29.03.23	JAM	PK
A	FOR COORDINATION	28.03.23	JAM	PK
Issue	Description	Date	Drawn	Approved

Form of Full Sign

Client

**Queensland Government**

Architect

**ACOR CONSULTANTS**
ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

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Project

CALOUNDRA SOUTH POLICE STATION QPS
2 NOVEL ROAD
BELLS CREEK QLD 4551

Drawing Title

STORMWATER MANAGEMENT LONGITUDINAL SECTIONS

Drawn	Date	Scale	A1	Q.A. Check	Date
JAM	MARCH 2023	XXX		SS	XXX
Designed	Project No.	QL220444.1		Dwg. No.	Issue
KG				C05-101	B

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2023/1396

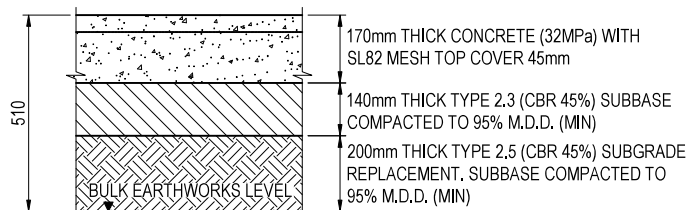
Date: 19 May 2023



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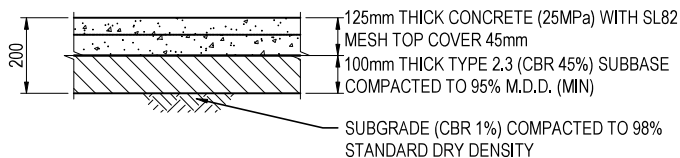
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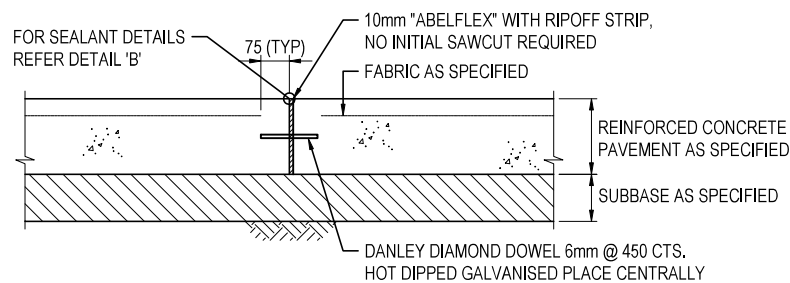


CONCRETE PAVEMENT
SCALE 1:10

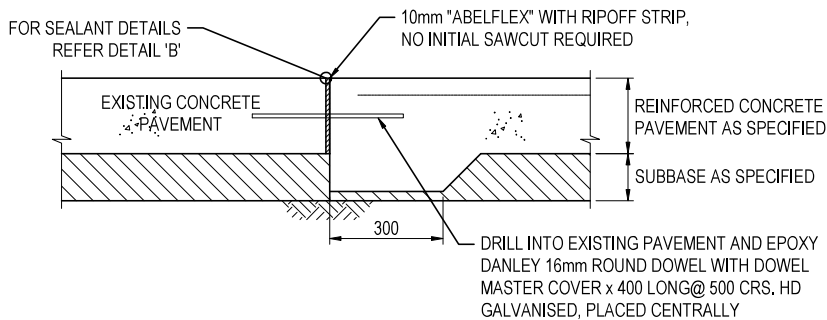
NOTE: JOINTS TO BE PROVIDED AS SHOWN ON PAVEMENT PLAN.



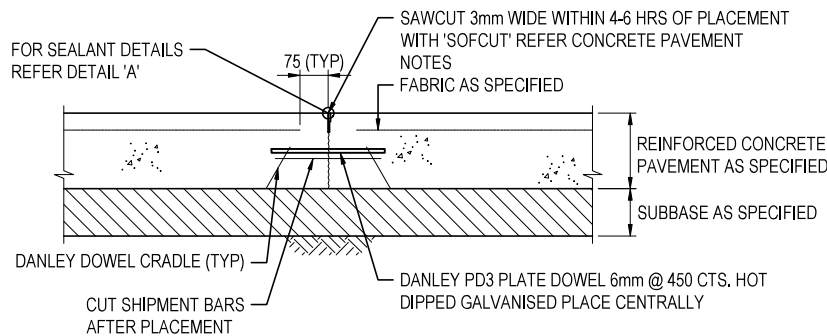
FOOTPATH REINFORCED CONCRETE PAVEMENT
SCALE 1:10



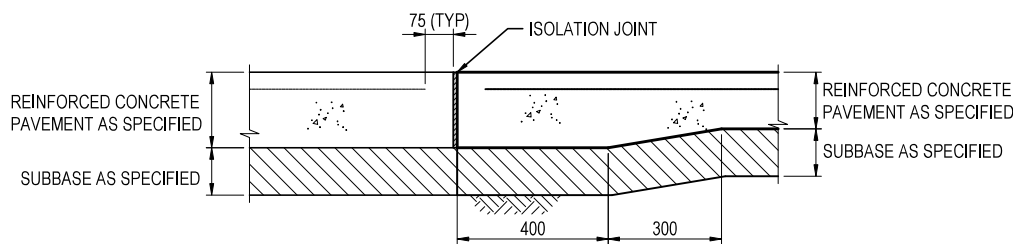
ISOLATION JOINT (IJ1)
ALSO TRANSVERSE STOP WORK JOINT
SCALE 1:10



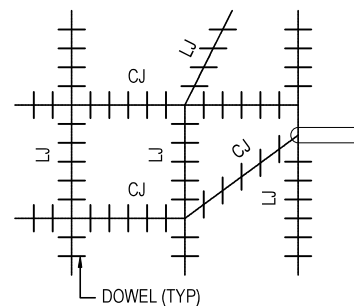
ISOLATION JOINT (IJ2)
ALSO TRANSVERSE STOP WORK JOINT
SCALE 1:10



CONTRACTION JOINT (CJ)
(POUR OVER)
SCALE 1:10

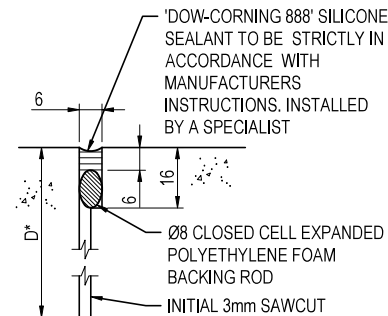


CONCRETE PAVEMENT THICKENING
SCALE 1:10

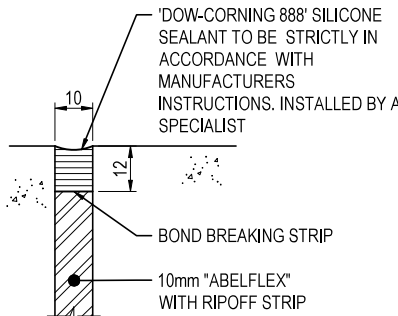


DOWEL ORIENTATIONS
NTS

NOTE: WHERE CONTRACTION JOINTS ARE SKEW TO THE MAIN JOINTING LAYOUT, ENSURE THAT THE DOWELS ARE ALIGNED PARALLEL TO THE MAIN JOINTING LAYOUT.



DETAIL A
1:10
D* = $\frac{\text{PAVEMENT THICKNESS}}{4}$



DETAIL B
1:10

SCALE 1:10 @ A1
SCALE 1:20 @ A3

SCALE 1:20 @ A1
SCALE 1:40 @ A3

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A	FOR COORDINATION	28.03.23	JAM	PK

ENGINEER'S CERTIFICATION

NAME:
RPEQ No:
SIGNED:



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South Brisbane QLD 4101
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Project: **CALOUNDRA SOUTH POLICE STATION QPS**
2 NOVEL ROAD
BELLS CREEK QLD 4551

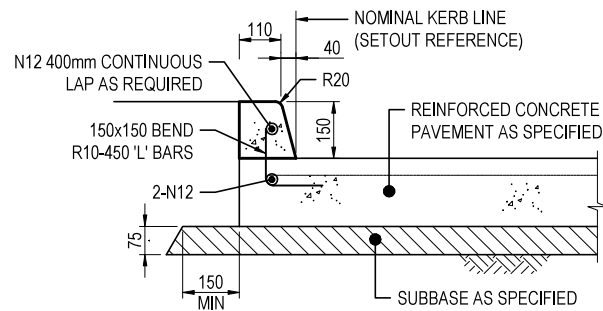
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JAM	MARCH 2023	AS SHOWN	SS	XXX	XXX
Designed	Project No.	Dwg. No.	Issue		
KG	QL220444.1	C07-001	B		

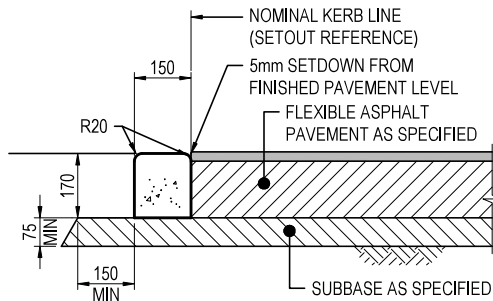
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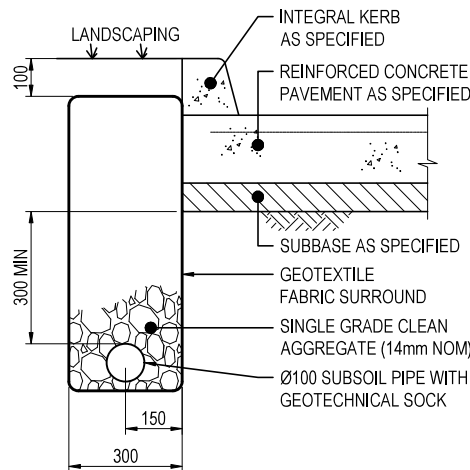


INTEGRAL KERB (IK)
SCALE 1:10

NOTE: PROVIDE EXPANSION JOINT THROUGH KERB PROFILE AT INTERFACE WITH ALL CONCRETE PAVEMENT JOINT LOCATIONS. FORM KERBS USING STEEL FACED FORMS. STEEL TROWEL TOP.

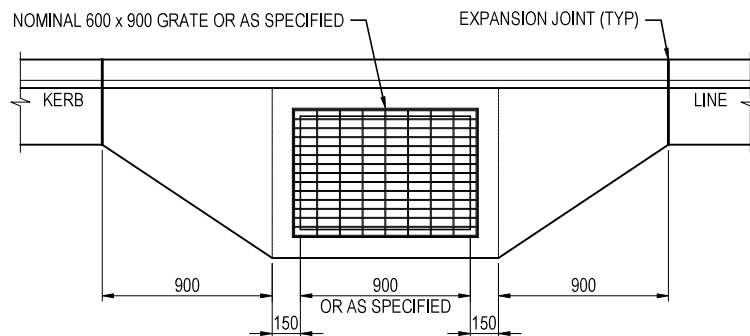
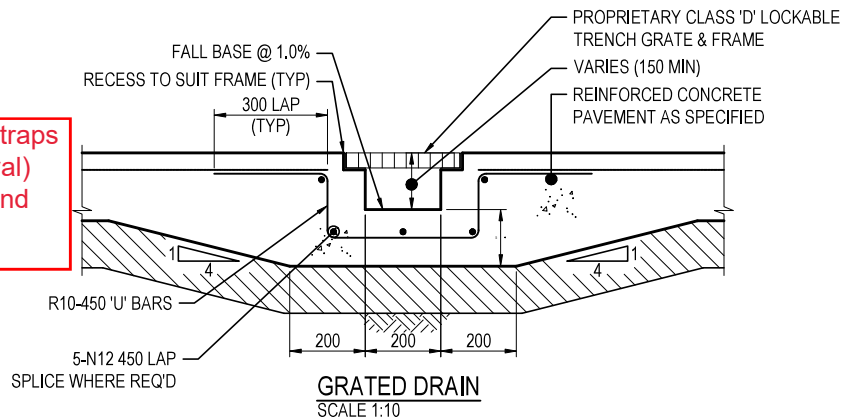


FLUSH KERB (FK)
SCALE 1:10

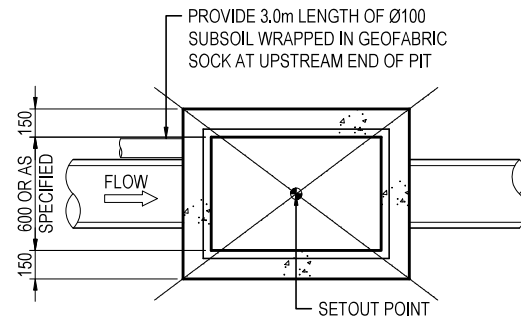
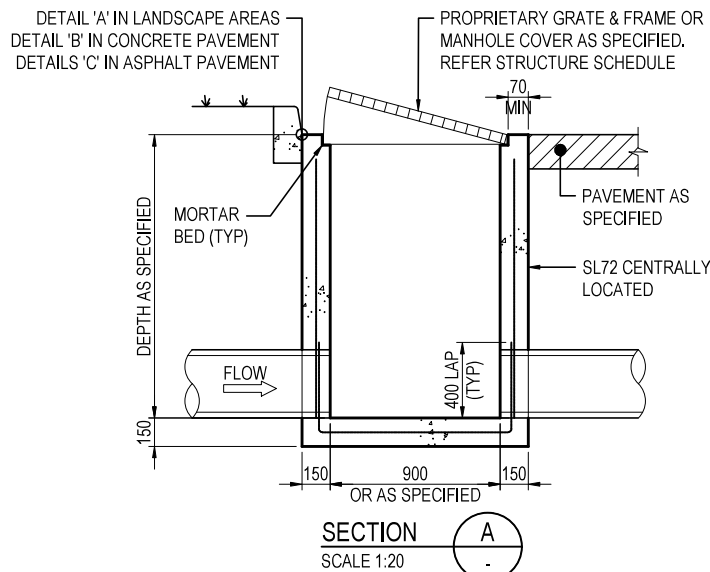


SUBSOIL DRAINAGE IN CONCRETE PAVEMENT
SCALE 1:10

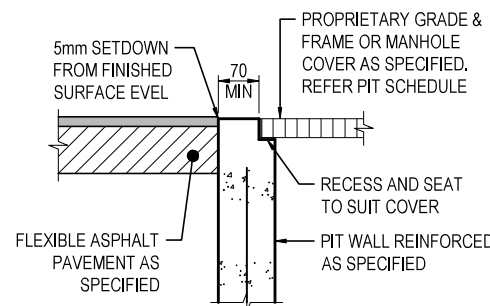
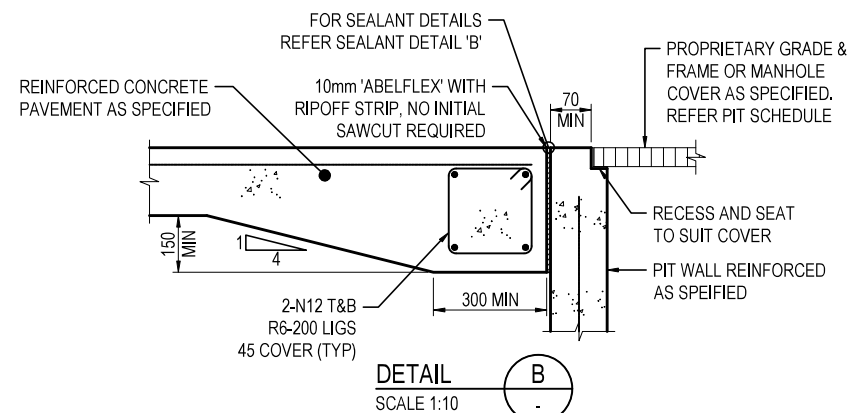
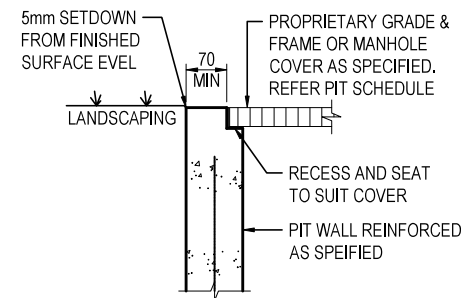
Gross pollutant and oil management traps (litter, coarse sediment and oil removal) are to be provided to capture all ground level runoff from car park.



SURFACE INLET/JUNCTION PIT KERB AND CHANNEL TRANSITION
SCALE 1:20



SURFACE INLET/JUNCTION PIT
SCALE 1:20



SCALE 1:10 @ A1
SCALE 1:20 @ A3

SCALE 1:20 @ A1
SCALE 1:40 @ A3

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ENGINEER'S CERTIFICATION

NAME:
RPEQ No:
SIGNED:

Client



Architect

PHILLIPS
SMITH
CONWELL

ACOR

46 BERWICK STREET
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Project
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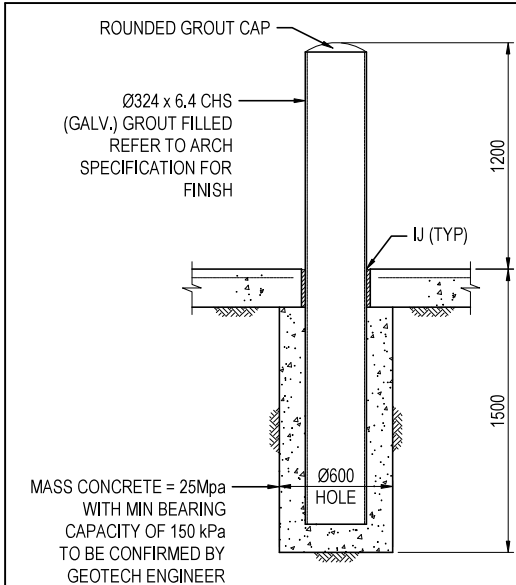
Drawing Title
**CIVIL DETAILS
SHEET 2**

Drawn	Date	Scale	A1	Q.A. Check	Date
JAM	MARCH 2023	AS SHOWN	SS	XXX	XXX
Designed	Project No.	Drawn No.	Issue		
KG	QL220444.1	C07-002	B		

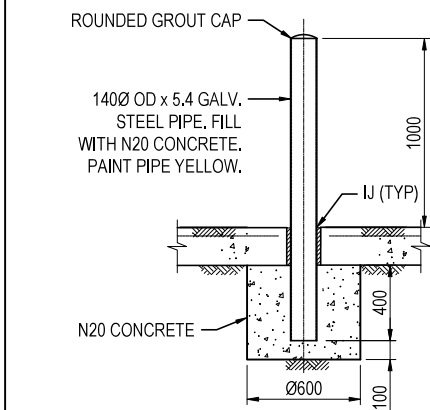
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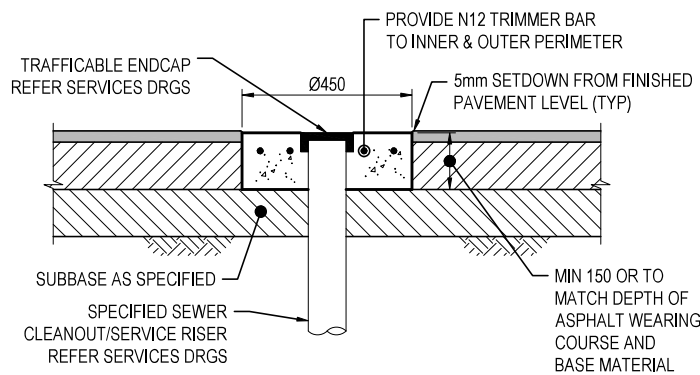




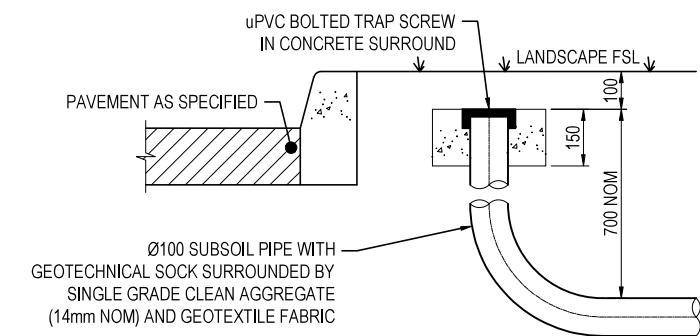
TRUCK BOLLARD DETAIL
SCALE 1:20



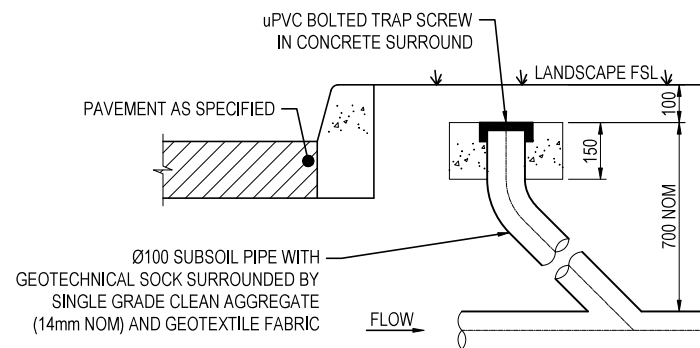
CAR BOLLARD DETAIL
SCALE 1:20



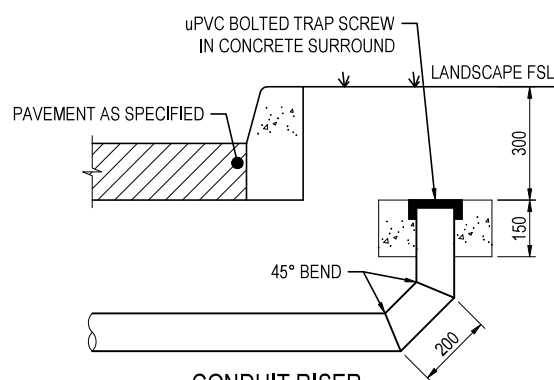
TYPICAL SEWER CLEANOUT/
SERVICE RISER SURROUND
SCALE 1:10



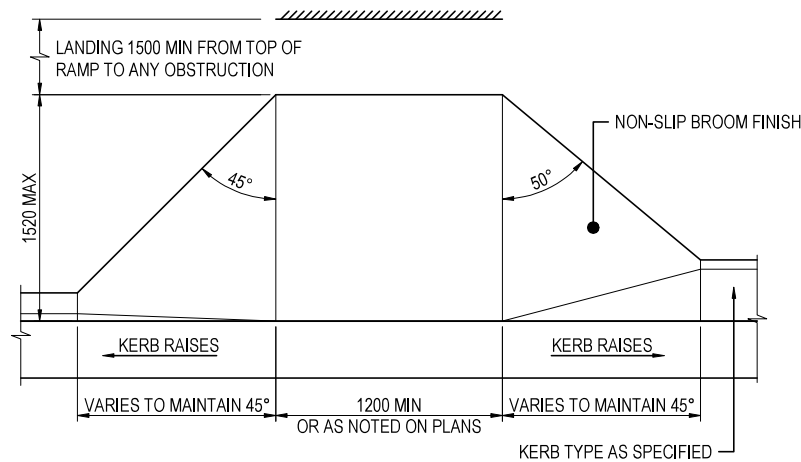
HIGH END RISER
SCALE 1:10



INTERMEDIATE RISER
SCALE 1:10

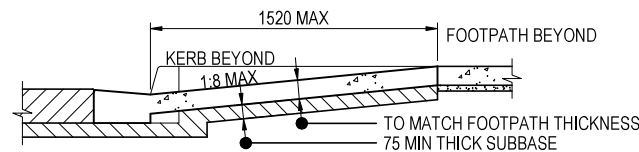


CONDUIT RISER
SCALE 1:10

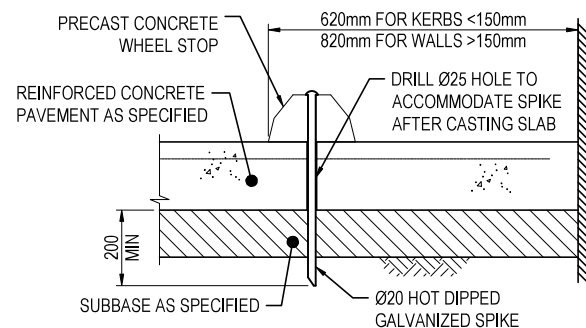


KERB RAMP
SCALE 1:20

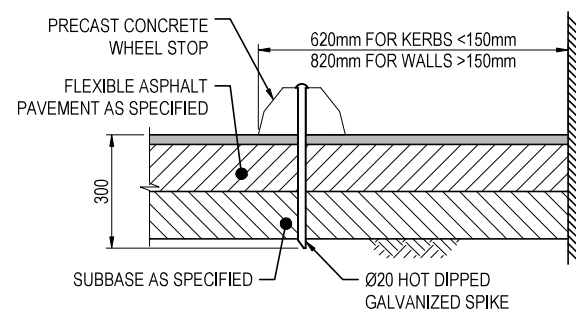
NOTE: CONTRACTOR TO INSTALL TACTILE PAVEMENT MARKERS IN ACCORDANCE WITH AS1428.4



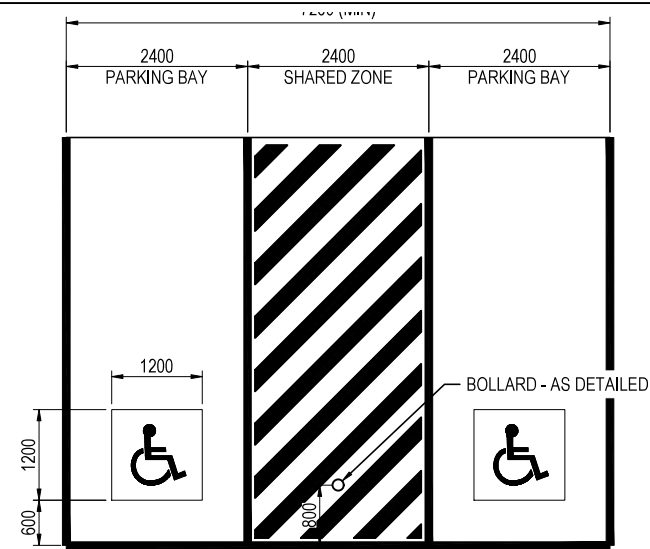
SECTION A
SCALE 1:20



WHEEL STOP ON CONCRETE PAVEMENT
SCALE 1:10



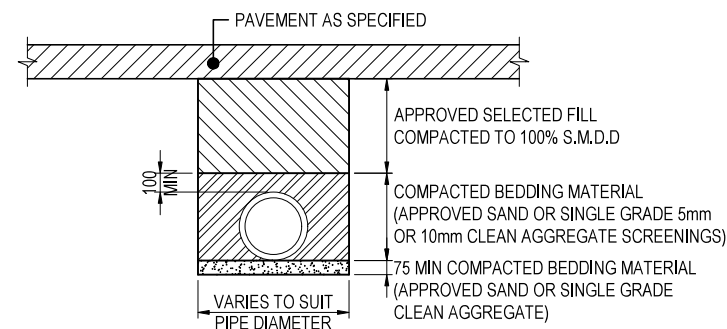
WHEEL STOP ON AC PAVEMENT
SCALE 1:10



TYPICAL DISABLED BAY DETAIL
SCALE 1:50

NOTE:

- ALL LINEMARKING TO COMPLY WITH AS/NZS 2890.6 PARKING FACILITIES PART 6: OFF-STREET PARKING FOR PEOPLE WITH DISABILITIES.
- EACH DEDICATED SPACE SHALL BE IDENTIFIED BY MEANS OF WHITE SYMBOL OF ACCESS IN ACCORDANCE WITH AS 128.1 BETWEEN 800 TO 100mm HIGH PLACED ON A BLUE RECTANGLE WITH NO SIDE MORE THAN 1200mm, PLACED AS A PAVEMENT PARKING IN THE CENTRE OF THE SPACE BETWEEN 500 AND 600mm FROM ITS ENTRY POINT AS DETAILED ABOVE.
- PAVEMENT MARKING SPECIFIED IN ITEMS 3.1 AND 3.2 SHALL BE YELLOW AND SHALL HAVE A SLIP RESISTANT SURFACE. RAISED PAVEMENT MARKERS SHALL NOT BE USED FOR SPACE DELINEATION.
1. DEDICATED PARKING SPACES SHALL BE OUTLINED WITH UNBROKEN LINES 80 TO 100mm WIDE ON ALL SIDES EXCEPTING ANY SIDE DELINEATED BY A KERB, BARRIER OR WALL.
2. SHARED SPACES SHALL BE OUTLINED WITH UNBROKEN LINES 80 TO 100mm WIDE ON ALL SIDES EXCEPTING ANY SIDE DELINEATED BY A KERB BARRIER OR WALL AND MARKED WITH DIAGONAL STRIPES 150 TO 200mm WIDE WITH SPACES 200 TO 300mm BETWEEN STRIPES. THE ANGLE OF THE STRIPES SHALL BE AT AN ANGLE OF 45 ± 10 DEGREES TO THE SIDE OF THE SPACE.



UNDER PAVEMENT PIPE BEDDING
SCALE 1:20

SCALE 1:10 @ A1
SCALE 1:20 @ A3

SCALE 1:20 @ A1
SCALE 1:40 @ A3

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This drawing has been assigned an electronic code that signifies the drawing has been checked and approved by:

Issue	Description	Date	Drawn	Approved
B	FOR TOWN PLANNING APPROVAL	29.03.23	JAM	PK
A	FOR COORDINATION	28.03.23	JAM	PK

ENGINEER'S CERTIFICATION

NAME:
RPEQ No:
SIGNED:



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Project: CALOUNDRA SOUTH POLICE STATION
QPS
2 NOVEL ROAD
BELLS CREEK QLD 4551

THIS DRAWING IS TO BE
PRINTED IN COLOUR

NOT FOR CONSTRUCTION

Drawn	Date	Scale	A1	Q.A. Check	Date
JAM	MARCH 2023	AS SHOWN	SS	XXX	XXX
Designed	Project No.	Drawn	Issue	Q.A. Check	Date
KG	QL220444.1	C07-003	B	XXX	XXX

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2023/1396
Date: 19 May 2023